

RF Test Report

Report No.: AGC00552180304EE10

PRODUCT DESIGNATION : Smart Phone
BRAND NAME : CUBOT
MODEL NAME : NOVA
MANUFACTURER : Shenzhen Huafurui Technology Co., Ltd.
DATE OF ISSUE : Apr. 12, 2018
STANDARD(S) : EN 301 908-1 V11.1.1 (2016-07)
: EN 301 908-13 V11.1.2 (2017-07)
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 12, 2018	Valid	Initial release

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1. TEST REPORT CERTIFICATION

Manufacturer	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 1401 &1402, 14/F, Jin qi zhi gu Mansion (No. 4 Building of Chong wen Garden), Crossing of the Liu Bian Street and Tang ling Road, Tao yuan Street, Nan shan District, Shenzhen, P.R. China
Factory Name	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 1401 &1402, 14/F, Jin qi zhi gu Mansion (No. 4 Building of Chong wen Garden), Crossing of the Liu Bian Street and Tang ling Road, Tao yuan Street, Nan shan District, Shenzhen, P.R. China
Product Designation	Smart Phone
Brand Name	CUBOT
Test Model	NOVA
Date of test	Mar. 30, 2018 to Apr. 12, 2018
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-EC-LTE2/RF

We, Attestation of Global Compliance (Shenzhen) Co., Ltd., for compliance with the requirements set forth in the European Standard ETSI EN 301 908-1/-13. The results of testing in this report apply to the product system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

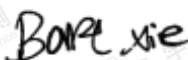
Tested By



Jeast Zhan(Zhan Jiangdong)

Apr. 12, 2018

Reviewed By



Bart Xie(Xie Xiaobin)

Apr. 12, 2018

Approved By



 Forrest Lei(Lei Yonggang)
 Authorized Officer

Apr. 12, 2018

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2. GENERAL INFORMATION

2.1. DESCRIPTION OF EUT

2.1.1. FINAL EQUIPMENT BUILD STATUS

Details of technical specification refer to the description in follows:

Product Name	Smart Phone
Brand Name	CUBOT
Test Model	NOVA
Product Type	LTE
Hardware Version	C719_MB_PCB_V1.0
Software Version	CUBOT_NOVA_8071C_V01_20180327
LTE Support Band	<input checked="" type="checkbox"/> FDD Band 1 <input checked="" type="checkbox"/> FDD Band 3 <input checked="" type="checkbox"/> FDD Band 7 <input checked="" type="checkbox"/> FDD Band 8 <input checked="" type="checkbox"/> FDD Band 20 <input type="checkbox"/> TDD Band 33 <input type="checkbox"/> TDD Band 34 <input type="checkbox"/> TDD Band 38 <input type="checkbox"/> TDD Band 40 <input type="checkbox"/> TDD Band 42 <input type="checkbox"/> TDD Band 43 (EU Bands) <input type="checkbox"/> FDD Band 2 <input type="checkbox"/> FDD Band 4 <input type="checkbox"/> FDD Band 5 <input type="checkbox"/> FDD Band 17 <input type="checkbox"/> FDD Band 25 <input type="checkbox"/> FDD Band 26 <input type="checkbox"/> TDD Band 41 (Non-EU Bands)
TX Frequency Range	FDD Band 1: 1920 MHz – 1980 MHz FDD Band 3: 1710 MHz – 1785 MHz FDD Band 7: 2500 MHz – 2570 MHz FDD Band 8: 880 MHz – 915 MHz FDD Band 20: 832 MHz – 862 MHz
RX Frequency Range	FDD Band 1: 2110 MHz – 2170 MHz FDD Band 3: 1805 MHz – 1880 MHz FDD Band 7: 2620 MHz – 2690 MHz FDD Band 8: 925 MHz – 960 MHz FDD Band 20: 791 MHz – 821 MHz
Modulation Mode	QPSK/16QAM
Antenna Type	PIFA Antenna
LTE Antenna Gain	Band 1 :-0.58dBi; Band 3 :-0.54dBi; Band 7 :-1.13dBi; Band 8 :-0.65dBi; Band 20 :-0.18dBi;
Diversity Antenna Gain	Band 1 :-0.64dBi; Band 3 :-0.65dBi; Band 7 :-1.20dBi; Band 8 :-0.70dBi; Band 20 :-0.21dBi;
Power Class	FDD Band 1:3, FDD Band 3:3, FDD Band 7:3, FDD Band 8:3, FDD Band 20:3
GSM Release Version	N/A
SIM Card Description	There are dual-SIM cards, just one for GSM/WCDMA/LTE and the other only for GSM.
Diversity Antenna Description	Diversity antenna is only used to receive. Its purpose is to increase sensitivity of LTE. The receiver items test results in the report already contain the diversity antenna test.

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2.1.2. PHOTOGRAPHS OF THE EUT

Please see APPENX 1 for photographs of the EUT.

2.1.3. IDENTIFICATION OF SAMPLES EUT

The EUT Identity consists of numerical and letter characters (see the table below), the first five numerical characters indicates the Type of the EUT defined by AGC, the next letter character indicates the test sample, and the following two numerical characters indicates the software version of the test sample.

SAMPLE A01

Sample Reference Number	A01
Factory Name	Shenzhen Huafurui Technology Co., Ltd.
Test Model	NOVA
Product Type	FDD Band 1, FDD Band 3, FDD Band 7, FDD Band 8, FDD Band 20
Frequency Bands	QPSK/16QAM;

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2.2. TYPE OF PICS/PIXIT INFORMATION

Item	Operating bands RF Baseline Implementation capabilities	Support	Allowed Value	Comments
1	Frequency band: 1920-1980, 2110-2170 MHz	YES	Yes/No	Band 1
2	Frequency band: 1850-1910, 1930-1990 MHz	NO	Yes/No	Band 2
3	UE Power Class 3 (+23 dBm)	YES	Yes/No	--
4	Frequency band: 1710-1785, 1805-1880 MHz	YES	Yes/No	Band 3
5	Frequency band: 1710-1755, 2110-2155 MHz	NO	Yes/No	Band 4
6	Frequency band: 824-849, 869-894 MHz	NO	Yes/No	Band 5
7	Frequency band: 830-840, 875-885 MHz	NO	Yes/No	Band 6
8	Frequency band: 2500-2570, 2620-2690 MHz	YES	Yes/No	Band 7
9	Frequency band: 880-915, 925-960 MHz	YES	Yes/No	Band 8
10	Frequency band: 1749.9-1784.9, 1844.9-1879.9 MHz	NO	Yes/No	Band 9
11	Frequency band: 1710-1770, 2110-2170 MHz	NO	Yes/No	Band 10
12	Frequency band: 1427.9-1452.9, 1475.9-1500.9 MHz	NO	Yes/No	Band 11
13	Frequency band: 699-716, 729-746 MHz	NO	Yes/No	Band 12
14	Frequency band: 777-787, 746-756 MHz	NO	Yes/No	Band 13
15	Frequency band: 788-798, 758-768 MHz	NO	Yes/No	Band 14
16	Reserved	NO	Yes/No	Band 15
17	Reserved	NO	Yes/No	Band 16
18	Frequency band: 704 – 716 , 734 – 746 MHz	NO	Yes/No	Band 17
19	Frequency band: 815-830, 860-875 MHz	NO	Yes/No	Band 18
20	Frequency band: 830-845, 875-890 MHz	NO	Yes/No	Band 19
21	Frequency band: 832-862, 791-821 MHz	YES	Yes/No	Band 20
22	Frequency band: 1447.9-1462.9, 1495.9-1510.9 MHz	NO	Yes/No	Band 21
23	Frequency band: 3410-3490, 3510-3590 MHz	NO	Yes/No	Band 22
24	Frequency band: 2000-2020, 2180-2200 MHz	NO	Yes/No	Band 23

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25	Frequency band: 1626.5-1660.5,1525-1559 MHz	NO	Yes/No	Band 24
26	Frequency band: 1850-1915,1930-1995 MHz	NO	Yes/No	Band 25
27	Frequency band: 814-849,859-894 MHz	NO	Yes/No	Band 26
28	Frequency band: 807-824,852-869 MHz	NO	Yes/No	Band 27
29	Frequency band: 703-748,758-803 MHz	NO	Yes/No	Band 28
30	Frequency band: N/A,DL: 717-728 MHz	NO	Yes/No	Band 29
31	Frequency band:2305-2315, 2350- 2360 MHz	NO	Yes/No	Band 30
32	Frequency band:452.5-457.5, 462.5 - 467.5MHz	NO	Yes/No	Band 31
33				...
34	Frequency band:1900-1920, 1900-1920 MHz	NO	Yes/No	Band 33
35	Frequency band:2010-2025, 2010-2025 MHz	NO	Yes/No	Band 34
36	Frequency band:18501910, 1850-1910 MHz	NO	Yes/No	Band 35
37	Frequency band:1930-1990, 1930-1990 MHz	NO	Yes/No	Band 36
38	Frequency band:19101930, 1910-1930 MHz	NO	Yes/No	Band 37
39	Frequency band:2570-2620, 2570-2620 MHz	NO	Yes/No	Band 38
40	Frequency band:1880-1920, 1880-1920 MHz	NO	Yes/No	Band 39
41	Frequency band:2300-2400, 2300-2400 MHz	NO	Yes/No	Band 40
42	Frequency band:2496-2690, 2496- 2690 MHz	NO	Yes/No	Band 41
43	Frequency band:3400-3600, 3400-3600 MHz	NO	Yes/No	Band 42
44	Frequency band:3600-3800, 3600-3800 MHz	NO	Yes/No	Band 43
45	Frequency band:703-803, 703-803 MHz	NO	Yes/No	Band 44

Note 1: Band 6 is not applicable.

Note 2: Restricted to E-UTRA operation when carrier aggregation is configured. The downlink operating band is paired with the uplink operating band (external) of the carrier aggregation configuration that is supporting the configured Pcell.

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3. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location-1	2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China
Location-2	B112-B113, Building 12, Baoan Building Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen, Guangdong, P.R.China
Note: Section 5.3.1 items were tested in the Laboratory of Location 2. Others were tested in the Laboratory of Location 1.	

LIST OF EQUIPMENTS USED OF AGC&NETC

No.	Type	Manufacturer	S/N	Cal. Date	Cal. Due
1	H & T Chamber ETH225-40A	Test EQ	WIT-05121302	Mar. 01, 2018	Feb. 28, 2019
2	Wireless communication test CMW500	R&S	120909	July 13, 2017	July 12, 2018
3	Wireless communication test set 8960	Agilent	GB46200384	July 16, 2017	July 15, 2018
4	Power Splitter 7100LC	KALMUS	04-02/17-06-001	June 29, 2017	June 28, 2018
5	Attenuator	JFW	50FHC-006-50	June 20, 2017	June 19, 2018
6	Vector Signal Generator SMU200A	R&S	104332	Sep. 21, 2017	Sep. 20, 2018
7	Wireless Communications Test Set 8960	AGILENT	GB42361316	Mar. 01, 2018	Feb. 28, 2019
8	EXA Signal Analyzer N9010A	Agilent	MY53470504	Dec. 17, 2016	Dec. 16, 2017
8	EXA Signal Analyzer N9010A	Agilent	MY53470504	Dec. 08, 2017	Dec. 07, 2018
9	MXG Vector Signal Generator N5182A	AGILENT	MY50140530	Sep. 21, 2017	Sep. 20, 2018
10	PSG Analog Signal Generator E8257D	AGILENT	MY45141029	Sep. 21, 2017	Sep. 20, 2018
11	MXA Signal Analyzer N9020A	AGILENT	W1312-60196	Mar. 01, 2018	Feb. 28, 2019
12	Universal Switch Control Unit	JS TONSCEND	N/A	---	---
13	RF SHIELD BOX	R&S	1204.7008K02-1 02590-EE	Mar. 01, 2018	Feb. 28, 2019
14	Programmable Power Supply PPT-1830	GW INSTEK	EM907629	Aug. 23, 2017	Aug. 22, 2018
15	Vibration Source SCU-200	SUSHI	3000-40-07	Mar. 01, 2018	Feb. 28, 2019

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No.	Type	Manufacturer	S/N	Cal. Date	Cal. Due
16	Attenuator	JFW	50FHC-006-50	June 20, 2017	June 19, 2018
17	EMI Test Receiver	ESCI	100694	June 29, 2017	June 28, 2018
18	Double-Ridged Waveguide Horn Antenna 3117	ETS LINDGREN	00034609	Mar. 01, 2018	Feb. 28, 2020
19	Broadband Antenna VULB9168	SCHWARZBECK	D69250	Mar. 01, 2018	Feb. 28, 2020
20	Triple Loop Antenna RF300	LAPLACE	N/A	Mar. 01, 2018	Feb. 28, 2020
21	Artificial Mains Network ENV4200	R&S	101116	July.16, 2017	July.15, 2018
22	Artificial Mains Network ENV216	R&S	101242	July.16, 2017	July.15, 2018
23	Filter Bank Notch 1(880-915MHz)	MICRO-TRONICS	010	Mar. 01, 2018	Feb. 28, 2019
24	Filter Bank Notch 2(1710-1785MHz)	MICRO-TRONICS	009	Mar. 01, 2018	Feb. 28, 2019
25	Filter Bank Notch 3(1920-1980MHz)	MICRO-TRONICS	008	Mar. 01, 2018	Feb. 28, 2019

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4. MEASUREMENT UNCERTAINTY

Parameter	Conditions	Test System Uncertainty
Transmitter Maximum Output power	--	±0,7 dB
Transmitter spectrum emissions mask	--	±1,5 dB
Transmitter spurious emissions	9 kHz < f ≤ 4 GHz: ±2,0 dB 4 GHz < f ≤ 12,75 GHz: ±4,0 dB	±2,0 dB ±4,0 dB
Transmitter Minimum output power	--	±1,0 dB
Receiver Adjacent Channel Selectivity(ACS)	--	±1,1 dB
Receiver Blocking characteristics	1 MHz < finterferer ≤ 3 GHz 3 GHz < finterferer ≤ 12,75 GHz	±1,3 dB ±3,2 dB
Receiver spurious response	1 MHz < finterferer ≤ 3 GHz 3 GHz < finterferer ≤ 12,75 GHz	±1,3 dB ±3,2 dB
Receiver intermodulation characteristics	--	±1,4 dB
Receiver spurious emissions	30 MHz ≤ f ≤ 4,0 GHz: ±2,0 dB 4 GHz < f ≤ 12,75 GHz: ±4,0 dB	±2,0 dB ±4,0 dB
Transmitter adjacent channel leakage power ratio	--	±0,8 dB

NOTE 1: For RF tests it should be noted that the uncertainties in table 5.2-1 apply to the test system operating into a nominal 50 Ω load and do not include system effects due to mismatch between the EUT and the test system.

NOTE 2: If the test system for a test is known to have a measurement uncertainty greater than that specified in table 5.2-1, this equipment can still be used provided that an adjustment is made follows: any additional uncertainty in the test system over and above that specified in table 5.2-1 should be used to tighten the test requirements - making the test harder to pass (for some tests, e.g. receiver tests, this may require modification of stimulus signals). This procedure will ensure that a test system not compliant with table 5.2-1 does not increase the probability of passing an EUT that would otherwise have failed a test if a test system compliant with table 5.2-1 had been used.

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5. TEST RESULT

5.1. APPLIED REFERENCE DOCUMENTS

Leading reference documents for testing:

No.	Identity	Document Title
1	ETSI EN 301 908-1	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements
2	ETSI EN 301 908-13	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)

Specific reference documents for testing:

No.	Identity	Document Title
3	ETSI TS 136 521-1	LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing

5.2. TEST ENVIRONMENT/CONDITIONS

Normal Temperature (NT)	15 ... 35 °C
Relative Humidity	20 ... 75 %
Air Pressure	980 ... 1020 hPa
Adapter Test Model Name	NOVA
Details of Power Supply(Rated Input)	AC100-240V, 50/60Hz,0.15A
Details of Power Supply(Rated Output)	DC5.0V,1000mA
Extreme Temperature	Low Temperature (TL) = -20°C Normal Temperature(TN) = 25 °C High Temperature (TH) = +55°C
Extreme Voltage of the EUT	Normal Voltage= DC 3.80V Limit Voltage = DC 4.35V
Note: The Limit Voltage 4.35V was declared by manufacturer, The EUT couldn't be operate normally with higher voltage.	

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5.3. ITEMS USED IN THE TEST RESULTS LIST

Terms in the column “Verdict” for the test results list of the section:

Verdict	Description
PASS	EUT passed this test case
FAIL	EUT failed this test case
INC.	EUT did not pass and did not fail this test case, therefore the verdict is inconclusive
FOUR-FAITH	Test case not applicable for the EUT, see the column “Note” for detailed

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5.4. TEST RESULTS LIST
ETSI EN 301 908-1

Test case	Description	Condition	FDD Band 1		FDD Band 3		FDD Band 7	
			Sample	Result	Sample	Result	Sample	Result
5.3.1	Radiated emission (UE)	NTC	A01	PASS	A01	PASS	A01	PASS
5.3.3	Control and monitoring functions (UE)	NTC	A01	PASS	A01	PASS	A01	PASS

Test case	Description	Condition	FDD Band 8		FDD Band 20	
			Sample	Result	Sample	Result
5.3.1	Radiated emission (UE)	NTC	A01	PASS	A01	PASS
5.3.3	Control and monitoring functions (UE)	NTC	A01	PASS	A01	PASS

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ETSI EN 301 908-13

Test case in ETSI	Description	Test Channel Bandwidths	condition	FDD Band 3	
				Sample	Result
4.2.2	Transmitter Maximum Output Power	1.4MHz 5MHz 20MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.5	Transmitter Minimum Output Power	1.4MHz 5MHz 20MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.3	Transmitter Spectrum Emission Mask	1.4MHz 5MHz 10MHz 20MHz	NTC	A01	PASS
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio	1.4MHz 5MHz 10MHz 20MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.4	Transmitter Spurious Emissions	1.4MHz 5MHz 20MHz	NTC	A01	PASS

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4.2.6	Receiver Adjacent Channel	1.4MHz 5MHz 20MHz	NTC	A01	PASS
4.2.7	Receiver Blocking Characteristics	1.4MHz 5MHz 20MHz	In band	A01	PASS
	Receiver Blocking Characteristics		Out Band	A01	PASS
	Receiver Blocking Characteristics		Narrow Band	A01	PASS
4.2.8	Receiver Spurious Response	1.4MHz 5MHz 20MHz	NTC	A01	PASS
4.2.9	Receiver Intermodulation Characteristics	1.4MHz 5MHz 20MHz	NTC	A01	PASS
4.2.10	Receiver Spurious Emissions	1.4MHz 5MHz 20MHz	NTC	A01	PASS
4.2.12	Receiver Reference Sensitivity Level	1.4MHz 5MHz 20MHz	NTC	A01	PASS

Channel Bandwidths to be tested: lowest, 5 MHz, 10 MHz and highest channel bandwidth
 Band 3: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz

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Test case in ETSI	Description	Test Channel Bandwidths	condition	FDD Band 8	
				Sample	Result
4.2.2	Transmitter Maximum Output Power	1.4MHz 5MHz 10MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.5	Transmitter Minimum Output Power	1.4MHz 5MHz 10MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.3	Transmitter Spectrum Emission Mask	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio	1.4MHz 5MHz 10MHz	NTC	A01	PASS
			HTHV	A01	PASS
			HTLV	A01	PASS
			LTHV	A01	PASS
			LTLV	A01	PASS
4.2.4	Transmitter Spurious Emissions	1.4MHz 5MHz 10MHz	NTC	A01	PASS

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4.2.6	Receiver Adjacent Channel	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.7	Receiver Blocking Characteristics	1.4MHz 5MHz 10MHz	In band	A01	PASS
	Receiver Blocking Characteristics		Out Band	A01	PASS
	Receiver Blocking Characteristics		Narrow Band	A01	PASS
4.2.8	Receiver Spurious Response	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.9	Receiver Intermodulation Characteristics	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.10	Receiver Spurious Emissions	1.4MHz 5MHz 10MHz	NTC	A01	PASS
4.2.12	Receiver Reference Sensitivity Level	1.4MHz 5MHz 10MHz	NTC	A01	PASS

Channel Bandwidths to be tested: lowest, 5 MHz and highest channel bandwidth
 Band 8: 1.4MHz/3MHz/5MHz/10MHz

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Test case in ETSI	Description	Test Channel Bandwidths	condition	FDD Band 1		FDD Band 7		FDD Band 20		Remark
				Sample	Result	Sample	Result	Sample	Result	
4.2.2	Transmitter Maximum Output Power	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
			HTHV	A01	PASS	A01	PASS	A01	PASS	--
			HTLV	A01	PASS	A01	PASS	A01	PASS	--
			LTHV	A01	PASS	A01	PASS	A01	PASS	--
			LTLV	A01	PASS	A01	PASS	A01	PASS	--
4.2.5	Transmitter Minimum Output Power	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
			HTHV	A01	PASS	A01	PASS	A01	PASS	--
			HTLV	A01	PASS	A01	PASS	A01	PASS	--
			LTHV	A01	PASS	A01	PASS	A01	PASS	--
			LTLV	A01	PASS	A01	PASS	A01	PASS	--
4.2.3	Transmitter Spectrum Emission Mask	5MHz 10MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.11	Transmitter Adjacent Channel Leakage Power Ratio	5MHz 10MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
			HTHV	A01	PASS	A01	PASS	A01	PASS	--
			HTLV	A01	PASS	A01	PASS	A01	PASS	--
			LTHV	A01	PASS	A01	PASS	A01	PASS	--
			LTLV	A01	PASS	A01	PASS	A01	PASS	--
4.2.4	Transmitter Spurious Emissions	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--

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4.2.6	Receiver Adjacent Channel	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.7	Receiver Blocking Characteristics	5MHz 20MHz	In band	A01	PASS	A01	PASS	A01	PASS	--
	Receiver Blocking Characteristics		Out Band	A01	PASS	A01	PASS	A01	PASS	--
	Receiver Blocking Characteristics		Narrow Band	A01	PASS	A01	PASS	A01	PASS	--
4.2.8	Receiver Spurious Response	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.9	Receiver Intermodulation Characteristics	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.10	Receiver Spurious Emissions	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--
4.2.12	Receiver Reference Sensitivity Level	5MHz 20MHz	NTC	A01	PASS	A01	PASS	A01	PASS	--

Channel Bandwidths to be tested: lowest, 5 MHz and highest channel 20MHz bandwidth.

- Note:** 1. Test reports have put the diversity antenna coupled together by the power divider test.
 2. The test result is SIM Card 1 (only SIM Card 1 support LTE) and recorded in the test report.

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Appendix A for Band 1

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

LTLV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
LTLV	QPSK	5 MHz	Low range	1	0	22.06	Pass
					max	22.02	Pass
				Partial	0	21.62	Pass
					max	21.66	Pass
			Mid range	1	0	21.29	Pass
					max	21.28	Pass
				Partial	0	21.38	Pass
					max	21.28	Pass
			High range	1	0	20.69	Pass
					max	20.60	Pass
				Partial	0	20.80	Pass
					max	20.66	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
LTLV	QPSK	20 MHz	Low range	1	0	21.50	Pass
					max	21.23	Pass
				Partial	0	21.47	Pass
					max	21.30	Pass
			Mid range	1	0	21.27	Pass
					max	20.99	Pass
				Partial	0	21.33	Pass
					max	21.05	Pass
			High range	1	0	20.91	Pass
					max	20.51	Pass
				Partial	0	20.99	Pass
					max	20.56	Pass

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2. Transmitter Minimum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

HTHV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
HTHV	QPSK	5 MHz	Low range	Full	0	-51.25	Pass
			Mid range	Full	0	-51.80	Pass
			High range	Full	0	-52.06	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
HTHV	QPSK	20 MHz	Low range	Full	0	-51.17	Pass
			Mid range	Full	0	-51.48	Pass
			High range	Full	0	-51.65	Pass

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3. Transmitter Spectrum Emission Mask

Test Result

NTVN

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
	Full	0	PUMAX	Pass			
16QAM		Low range	Partial	0	PUMAX	Pass	

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					max	PUMAX	Pass
				Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
			Mid range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

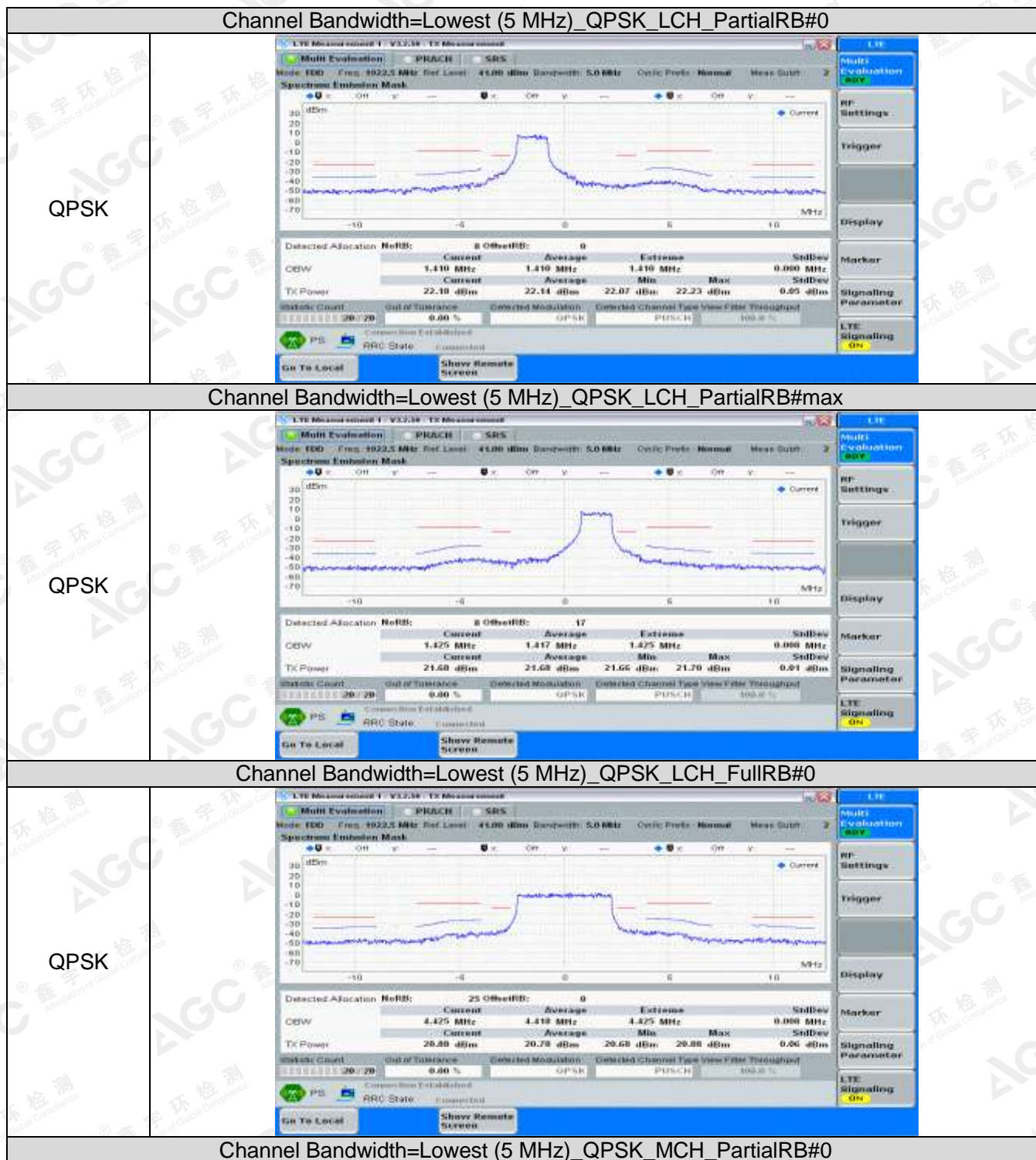
Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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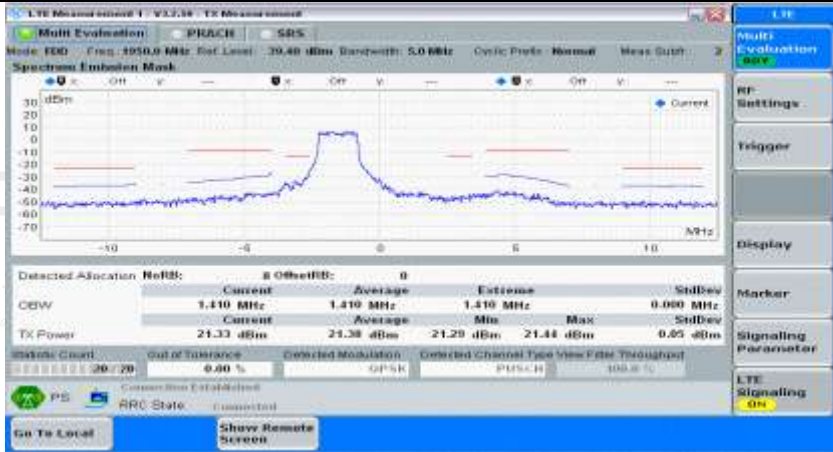
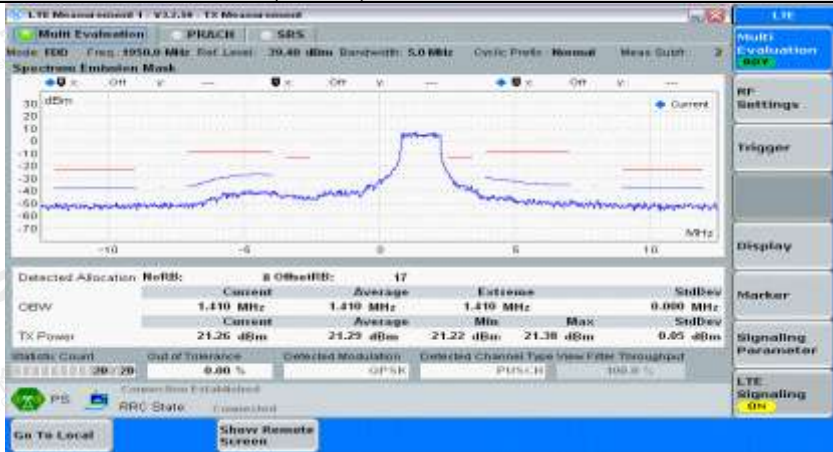
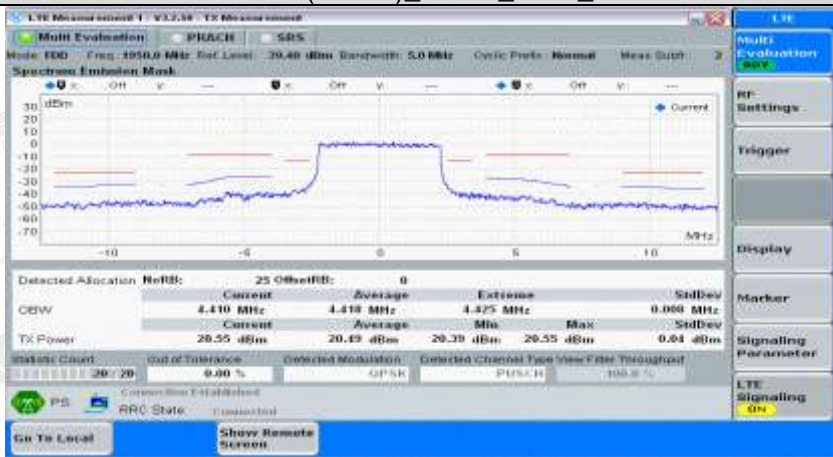
Test Graphs

NTNV

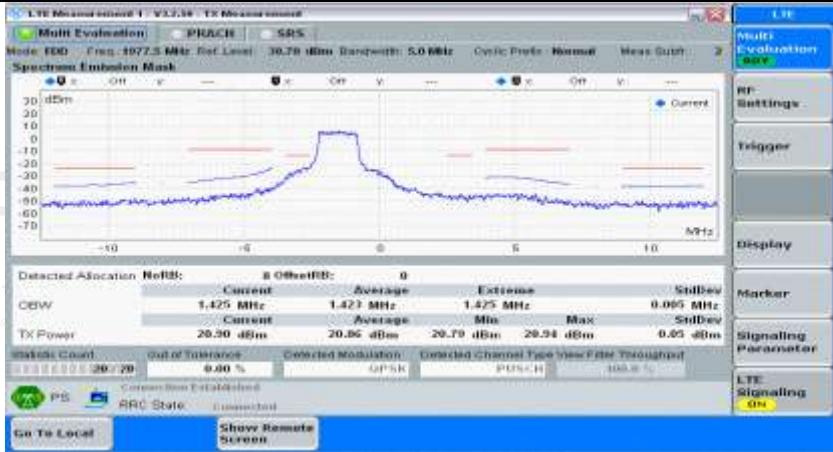
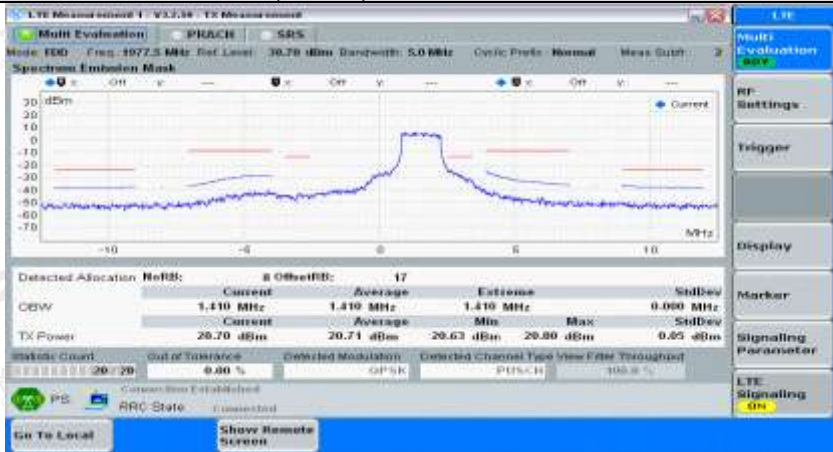

Channel Bandwidth=Lowest (5 MHz)



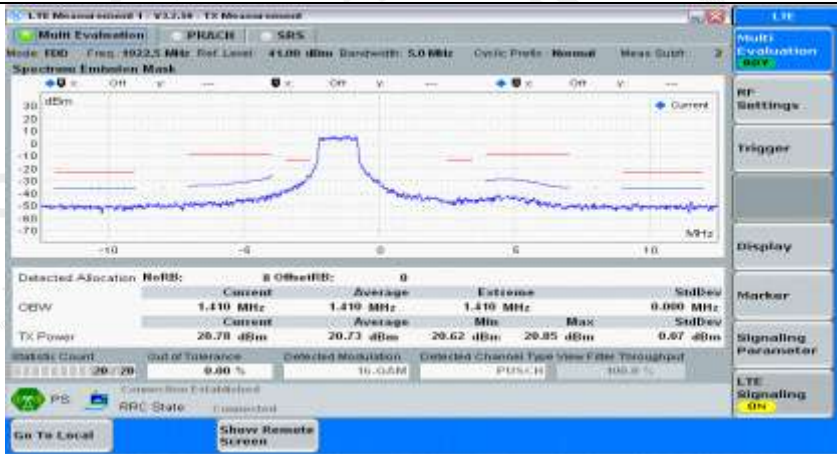
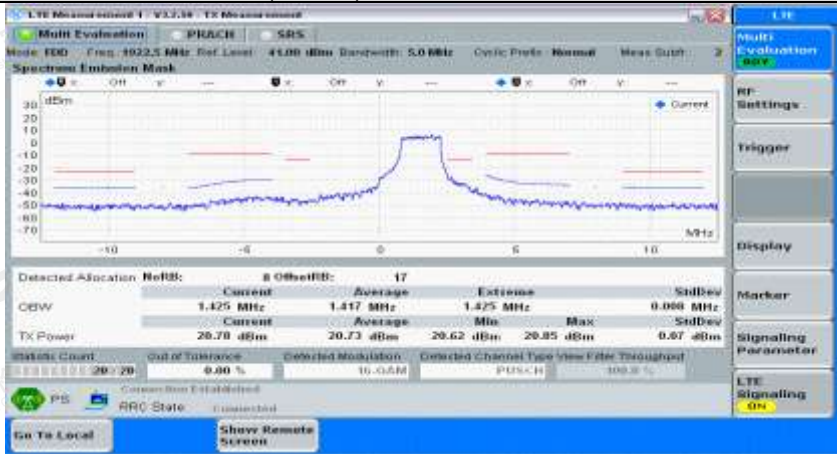
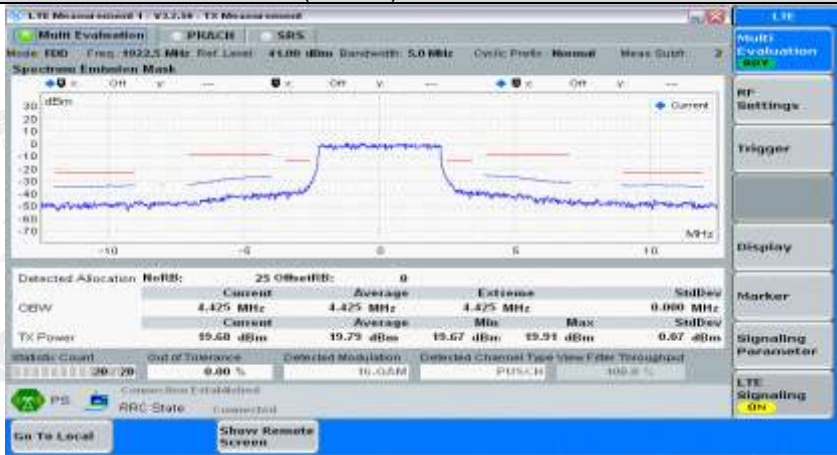
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0	

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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0	

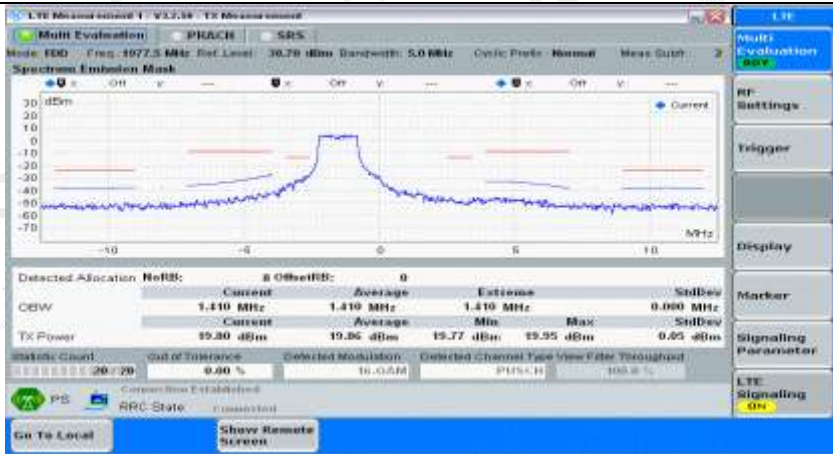
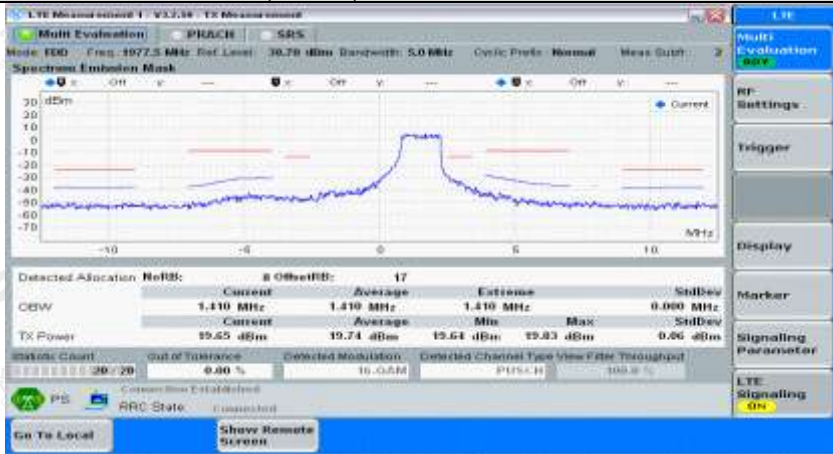
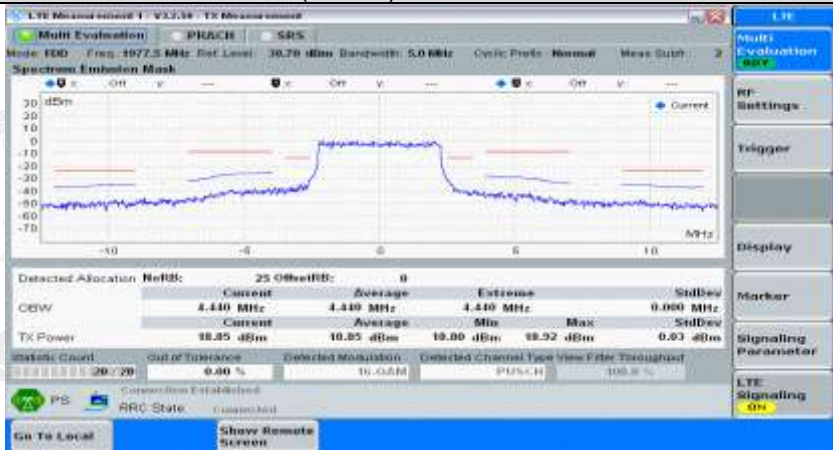
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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullIRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	

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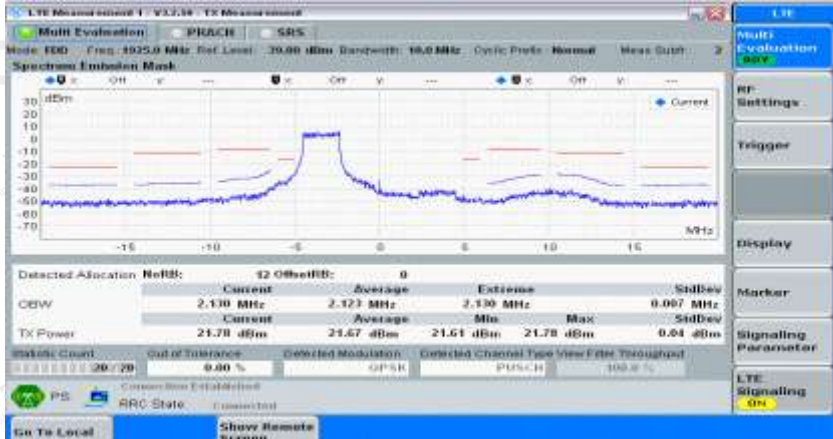
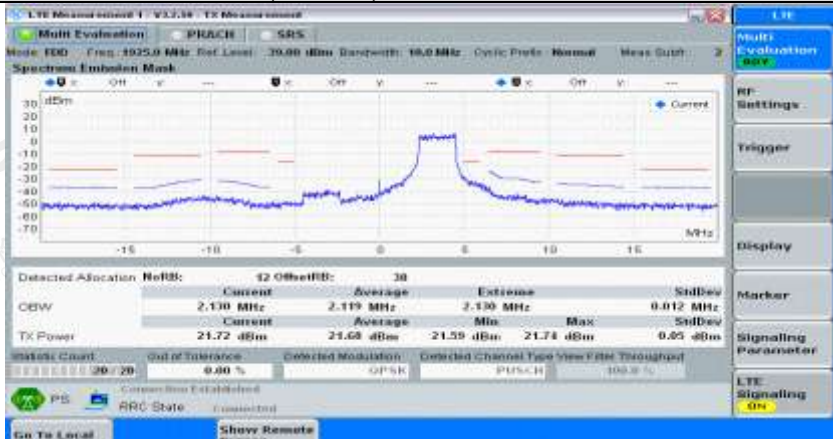
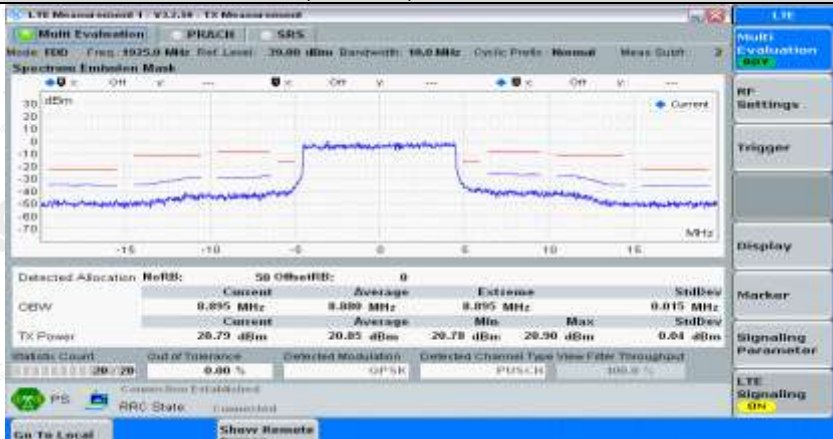
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0	

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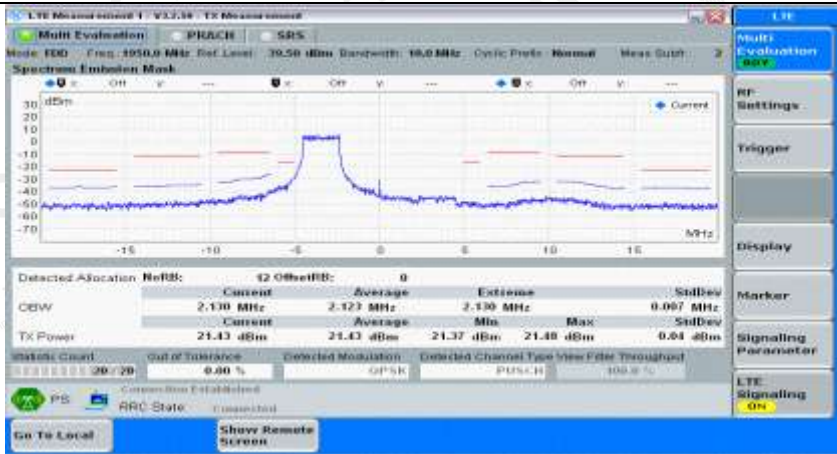
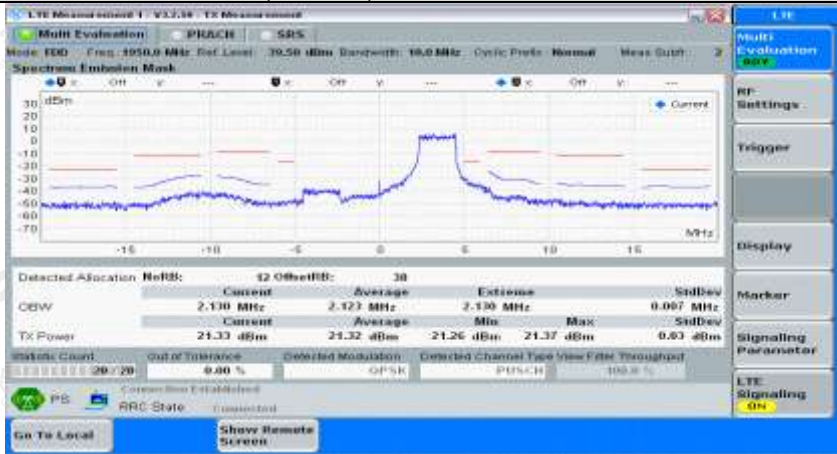
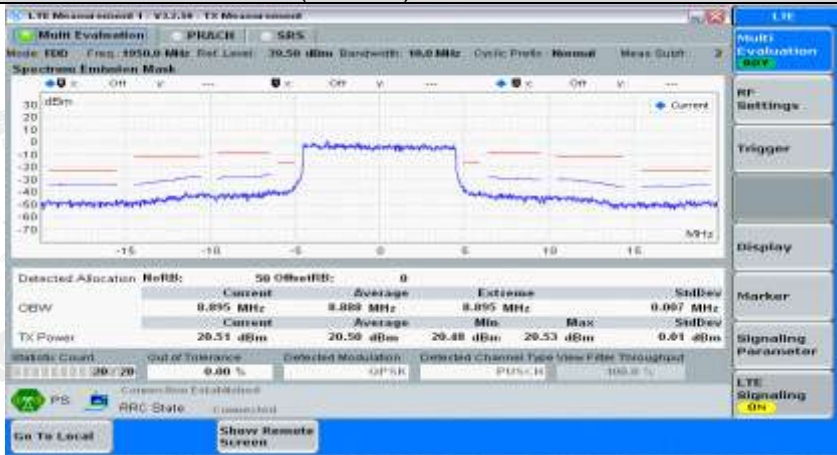
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullIRB#0	
16QAM	

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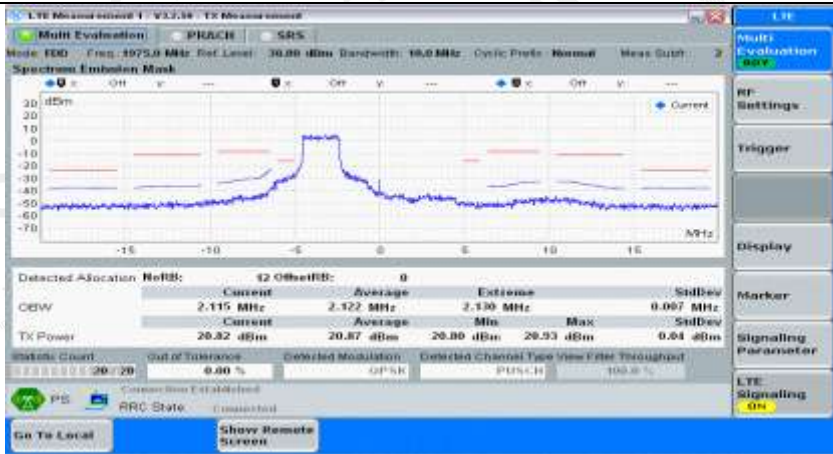
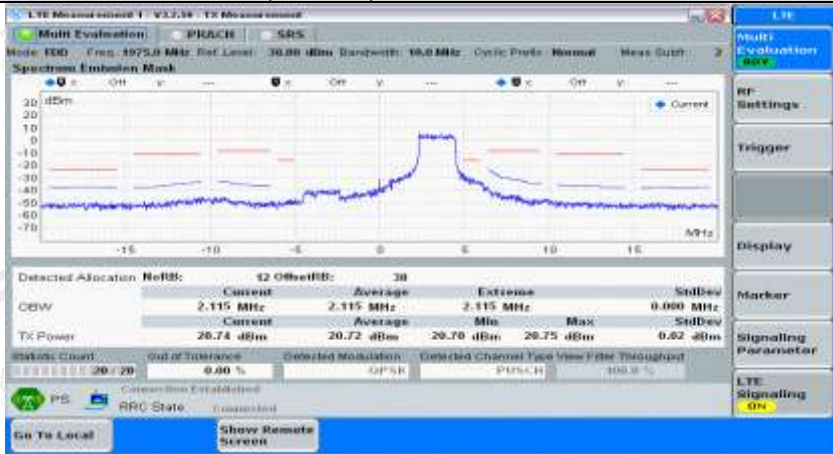
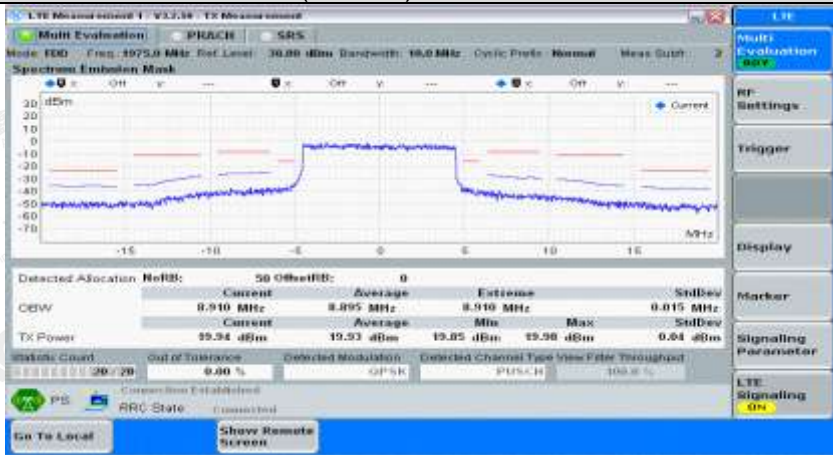
Channel Bandwidth= (10 MHz)

QPSK	<p>Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0</p> 
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Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0	

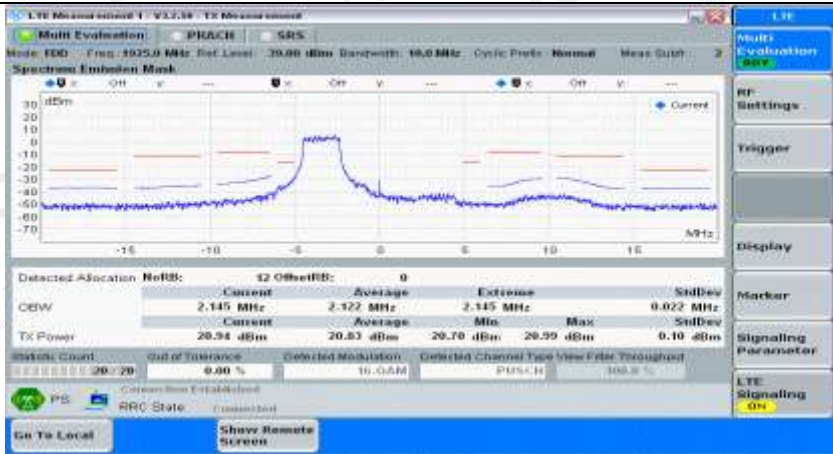
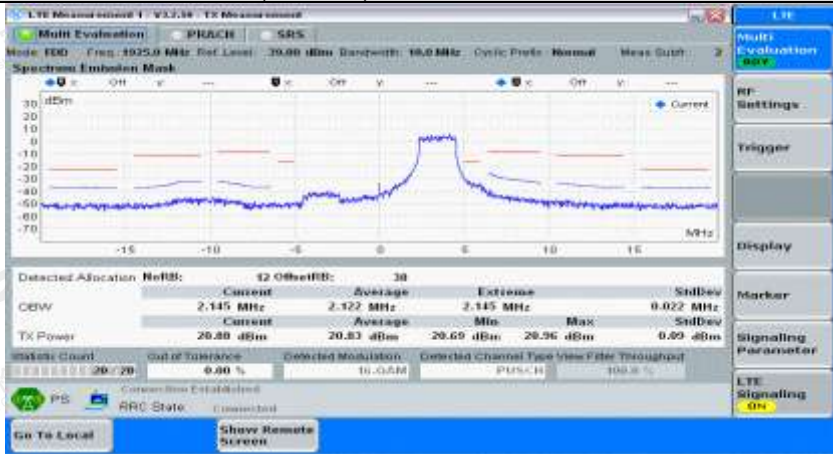
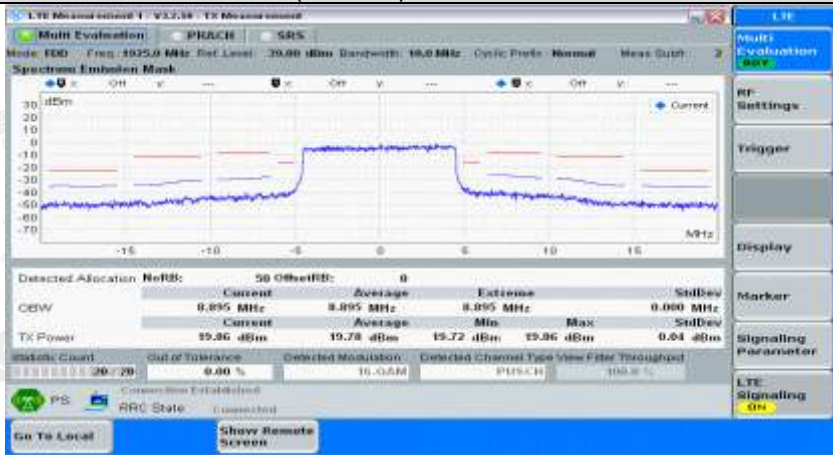
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0	

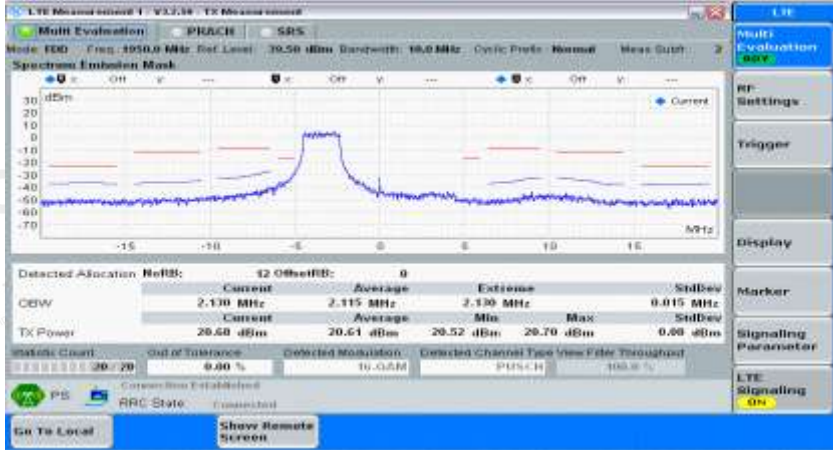
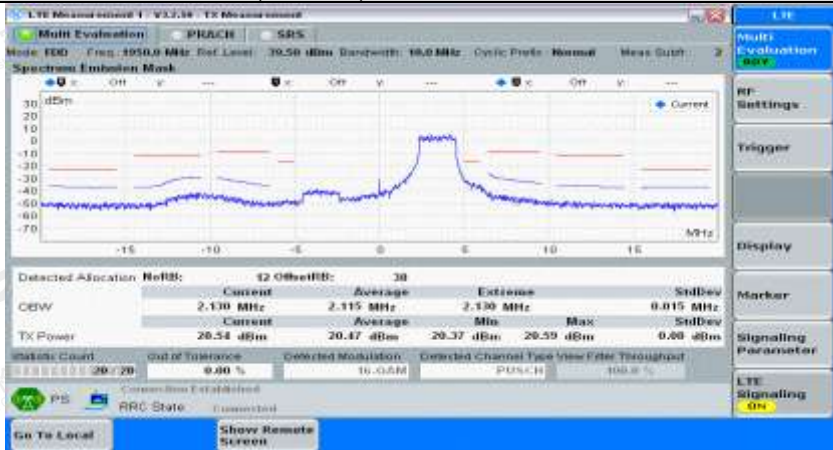
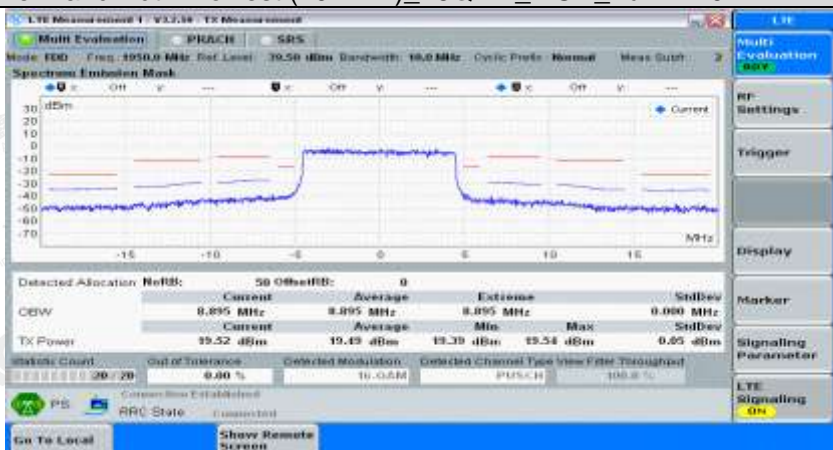
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0	

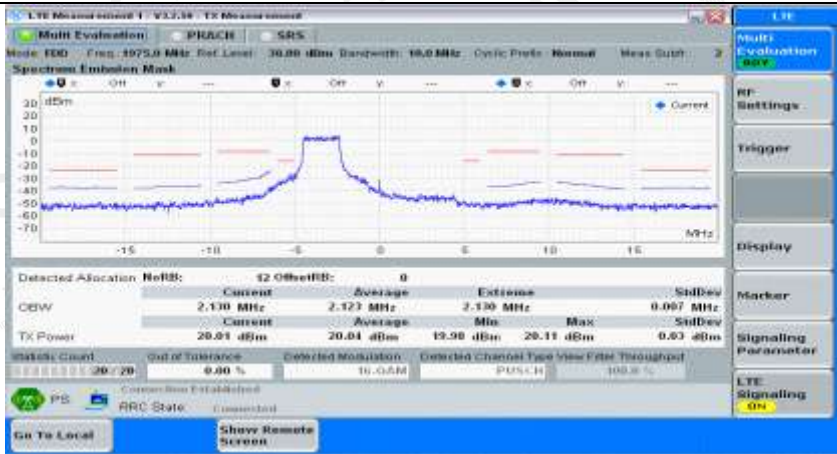
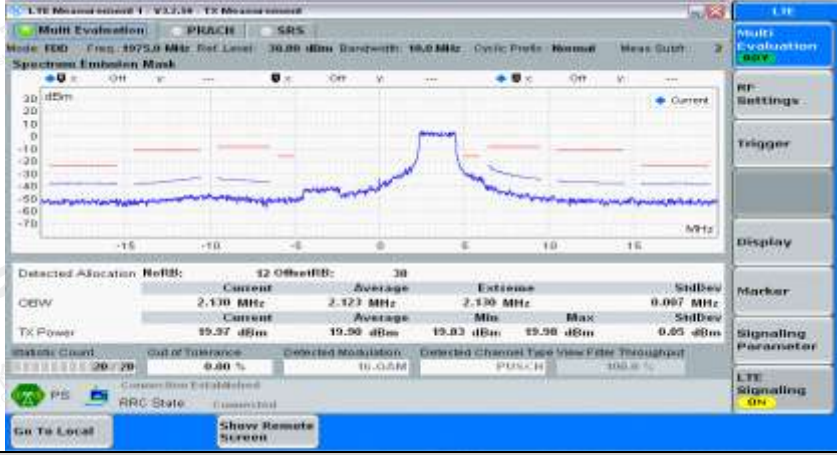
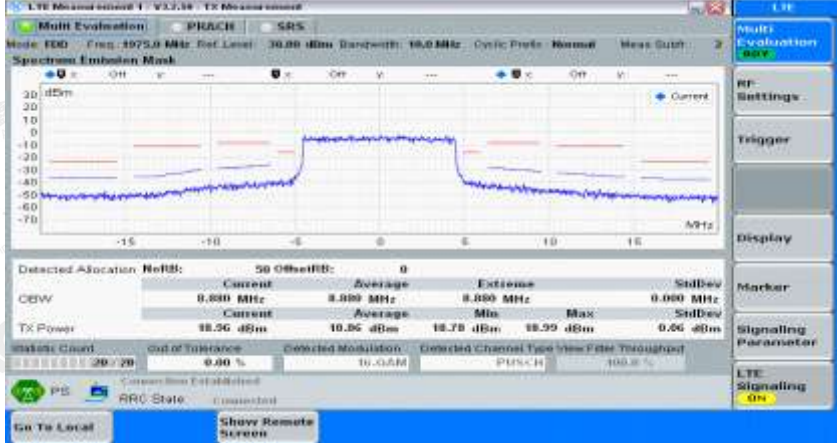
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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	

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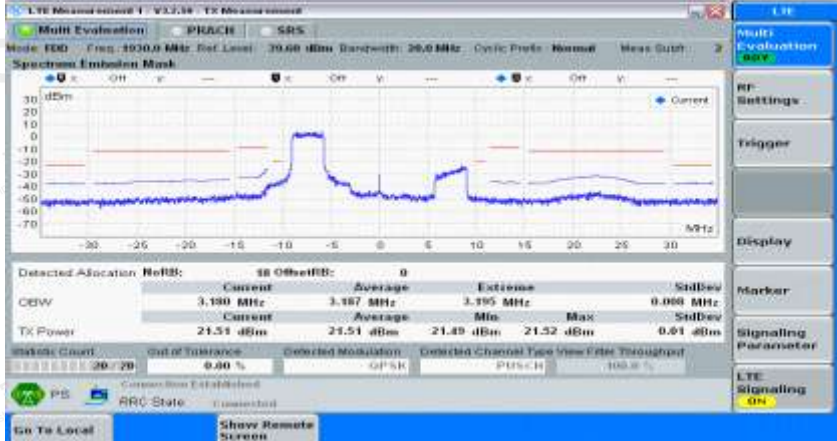
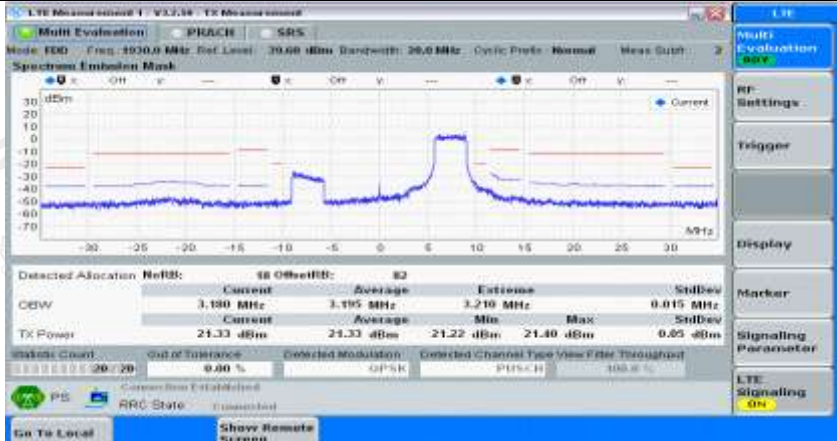
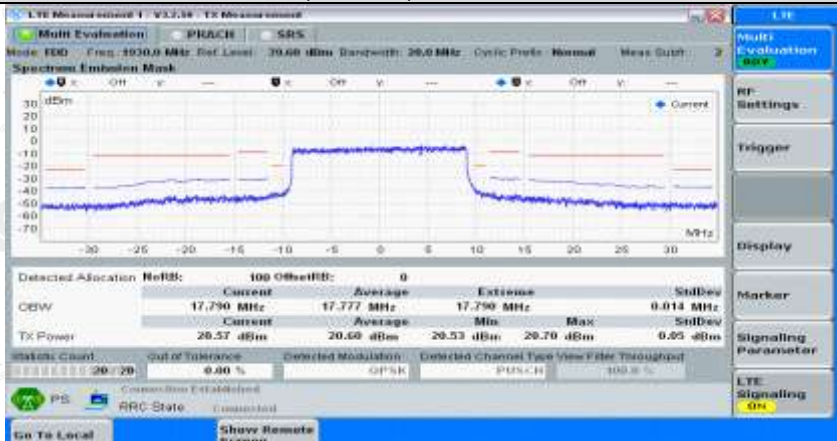
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0</p>

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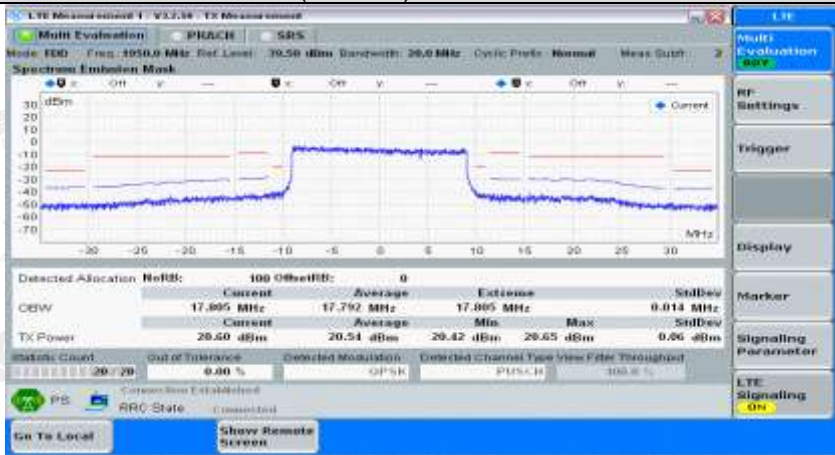
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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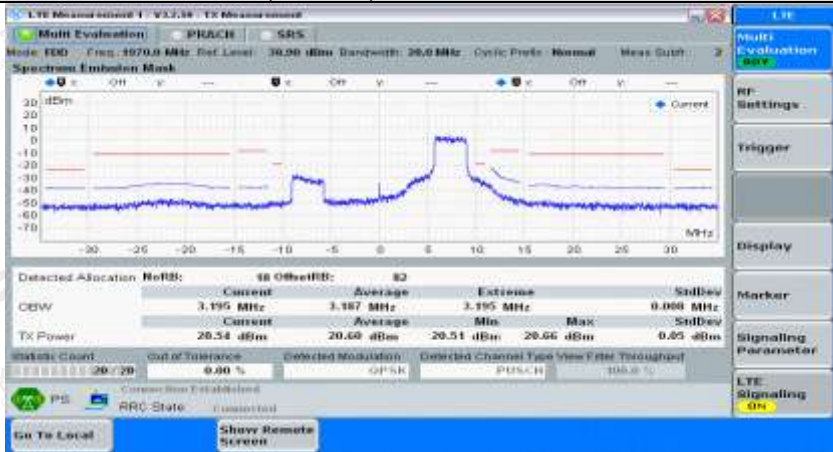
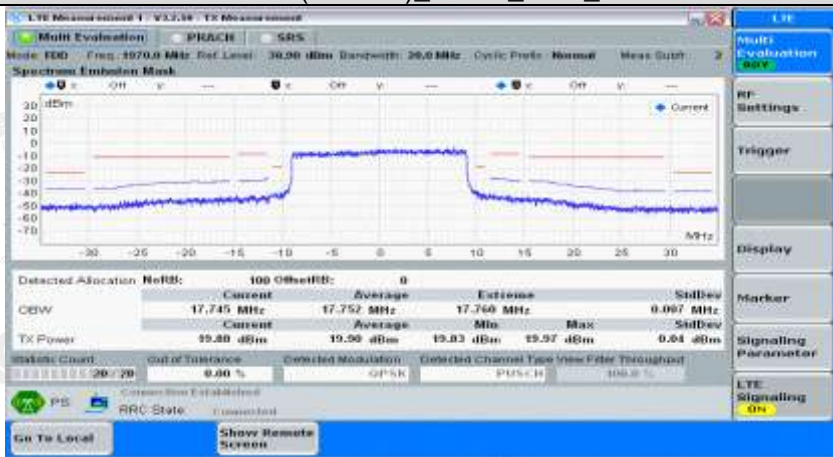
Channel Bandwidth=Highest (20 MHz)

QPSK	<p>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#0</p> 
QPSK	<p>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#max</p> 
QPSK	<p>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_FullRB#0</p> 
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0	

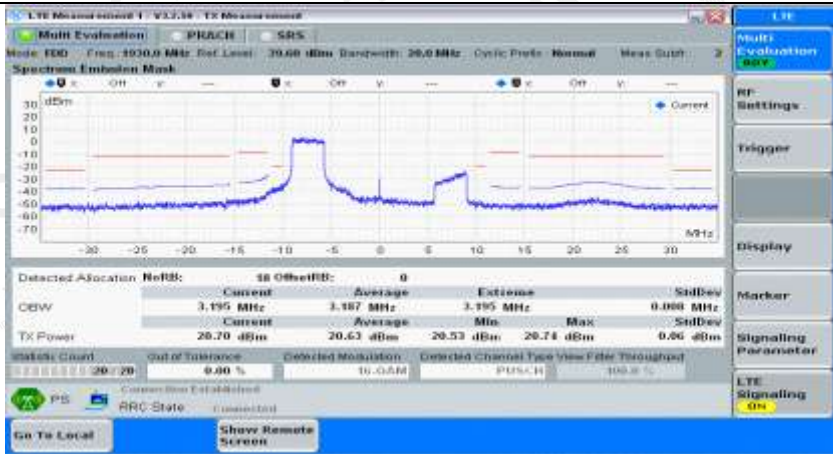
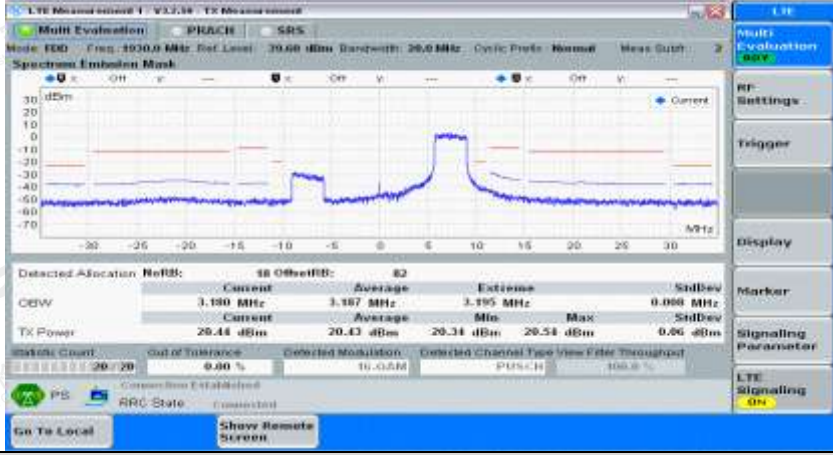
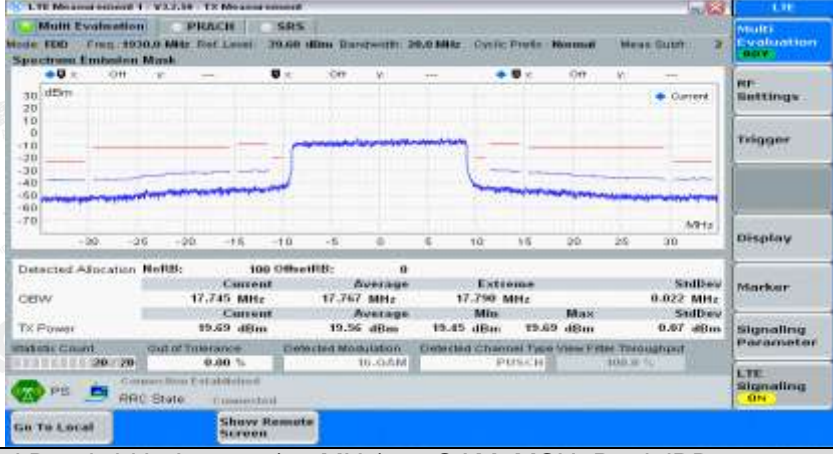
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullIRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0	

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QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0	

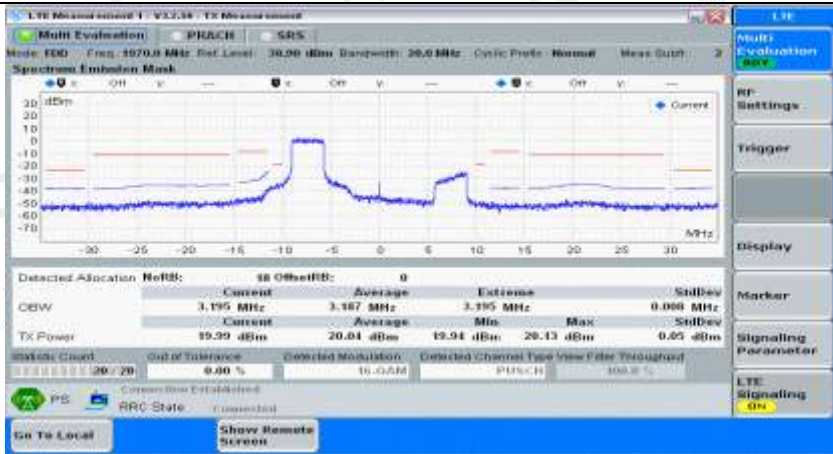
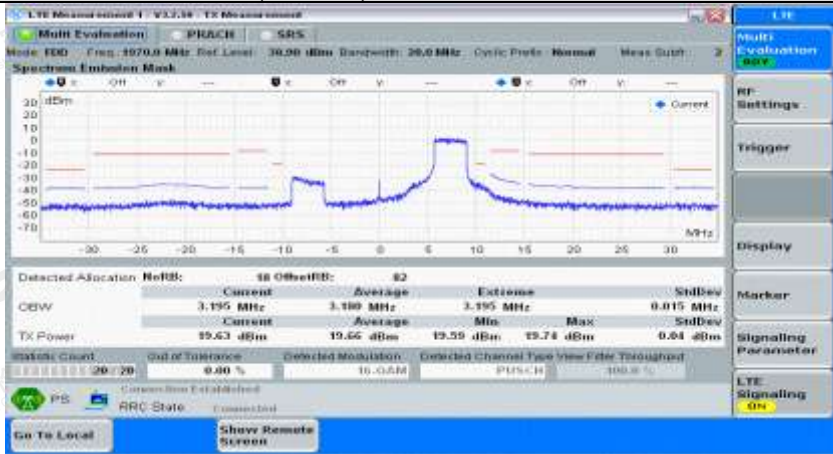
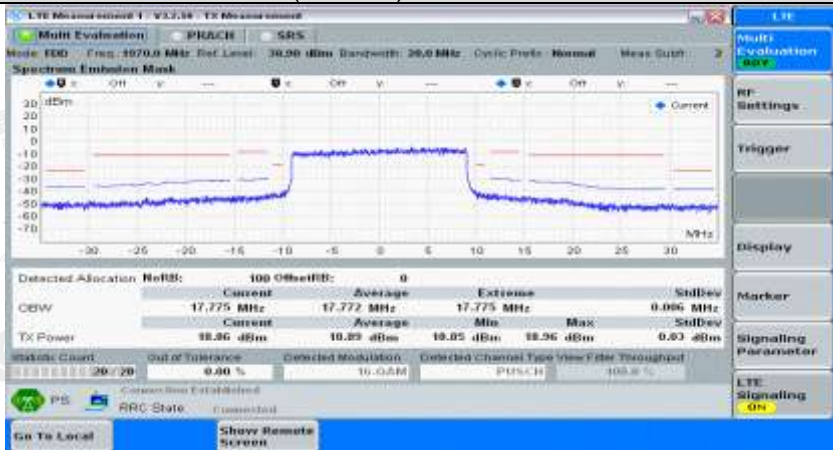
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

HTLV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
HTLV	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
HTLV	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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	16QAM	Low range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		Mid range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		High range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

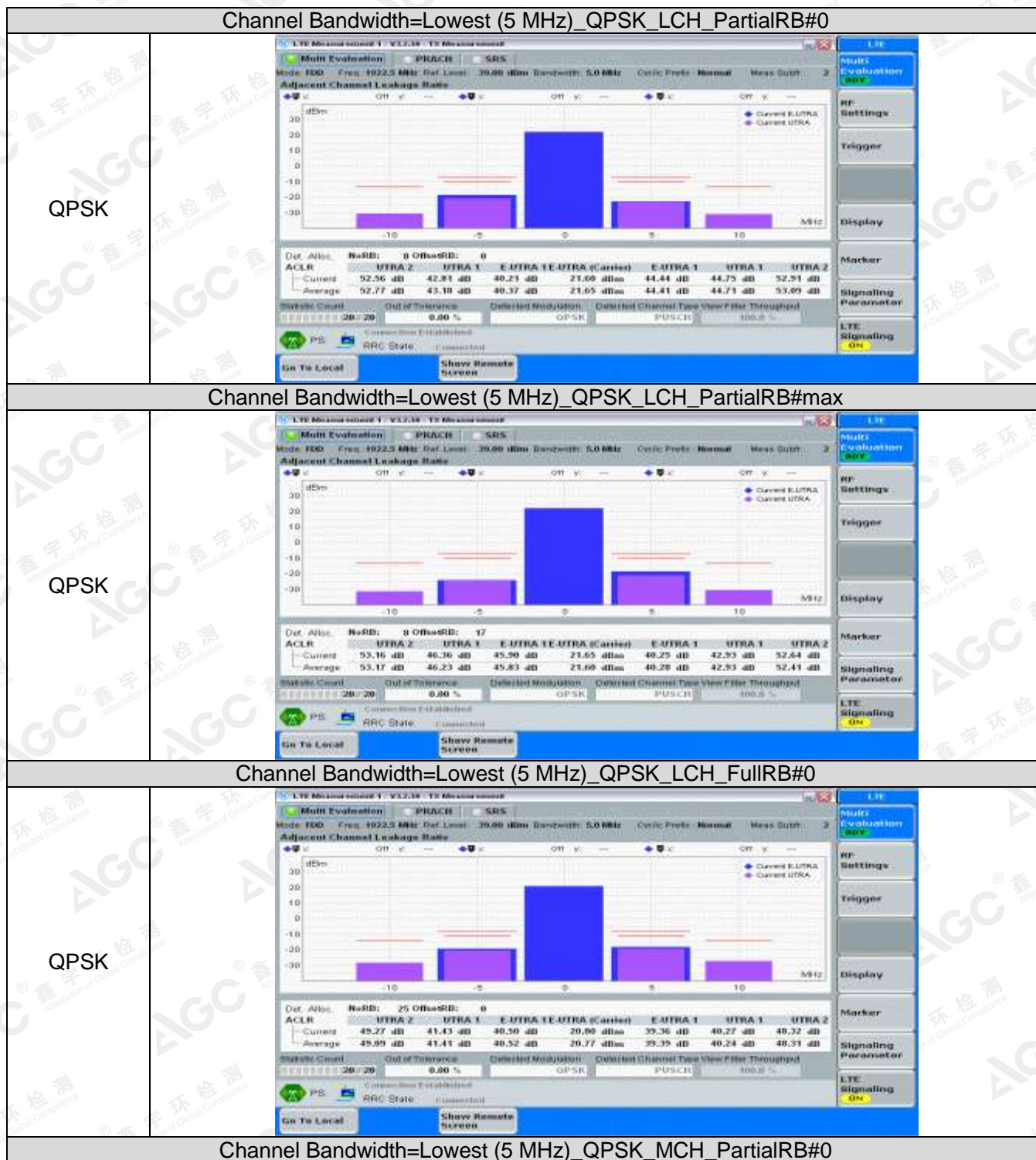
Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
HTLV	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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Test Graphs

HTLV



Channel Bandwidth=Lowest (5 MHz)



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QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0</p>


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QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0</p>

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Channel Bandwidth= (10 MHz)

Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullIRB#0

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0

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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0</p>

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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0</p>

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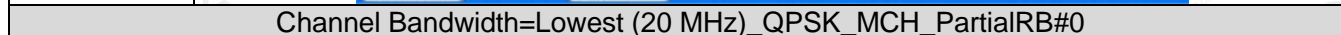
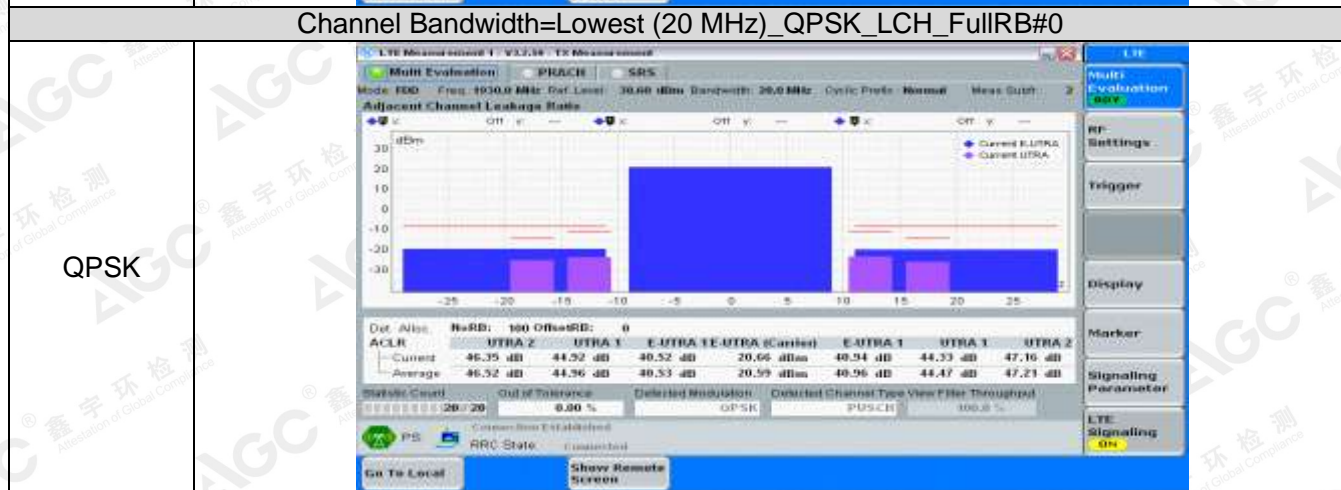
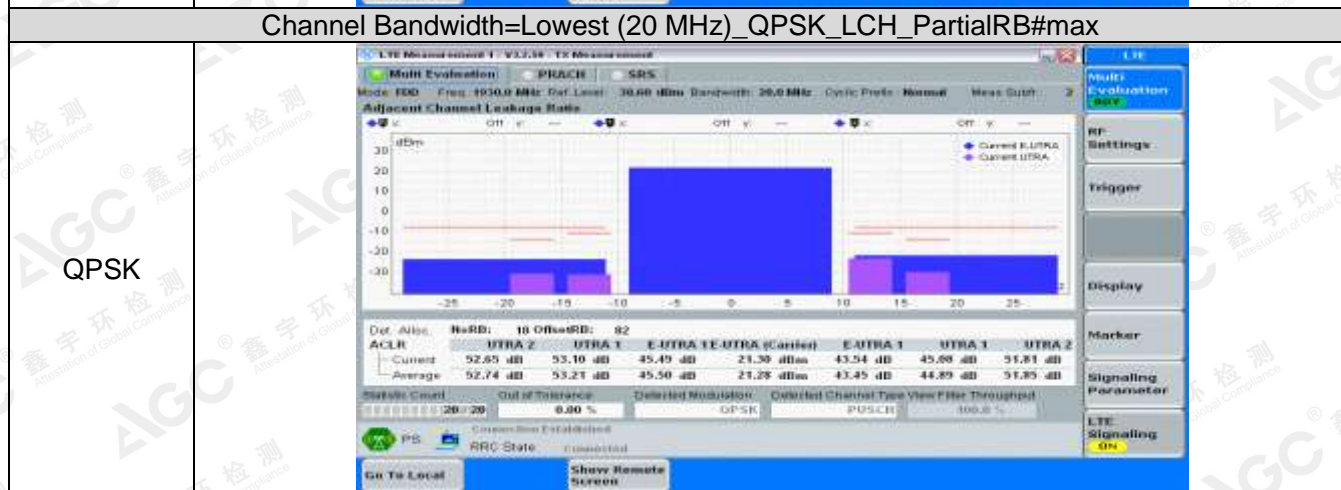
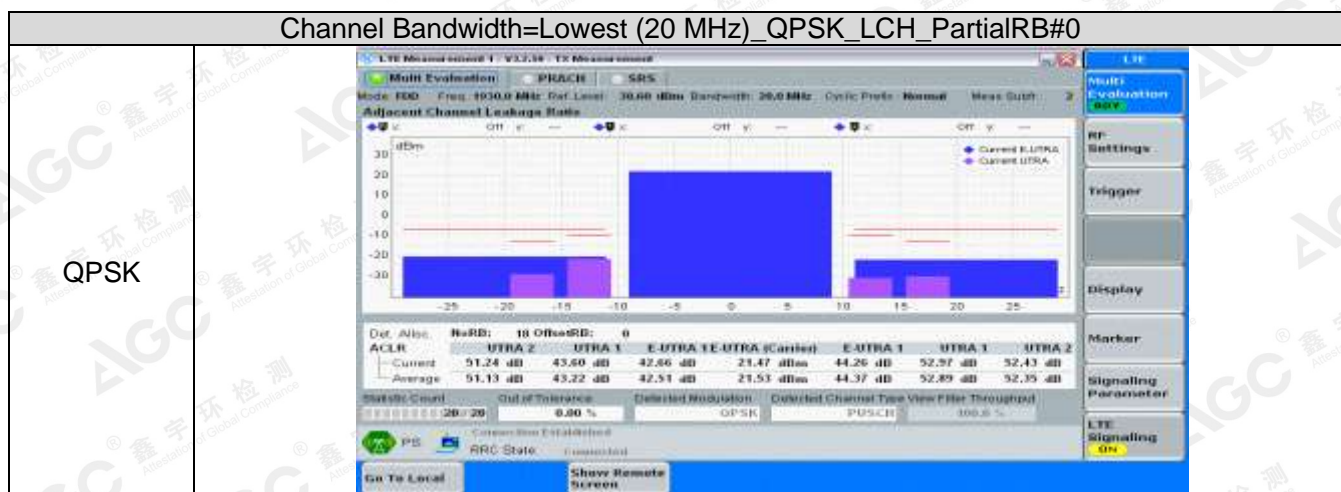
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0</p>

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Channel Bandwidth=Highest (20 MHz)



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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0</p>

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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	

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5. Transmitter Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

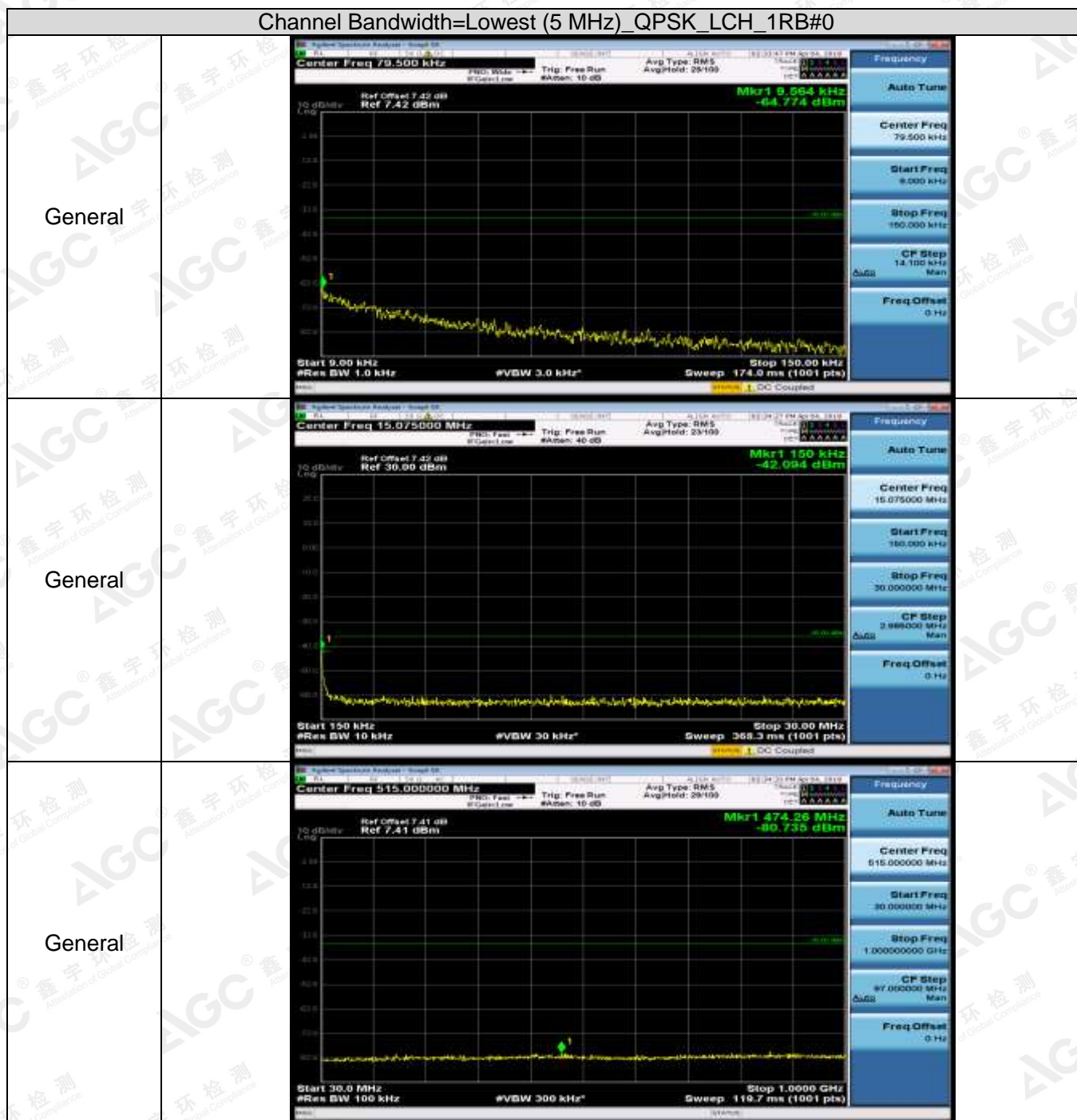
Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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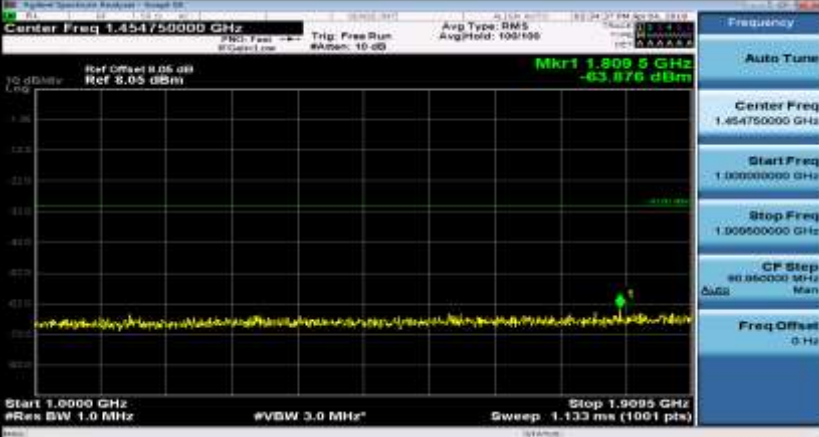


Test Graphs

NTNV

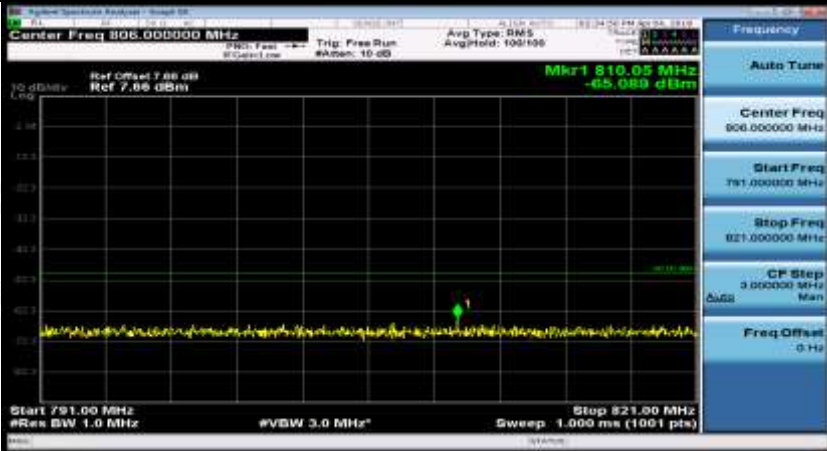
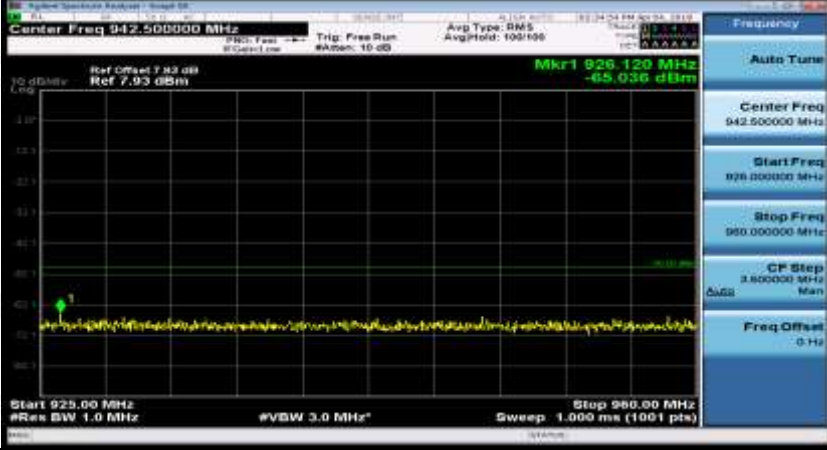
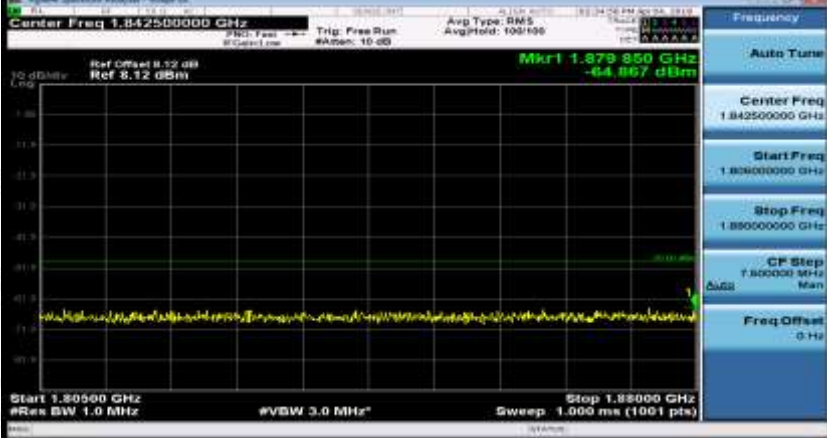
Channel Bandwidth=Lowest (5 MHz)



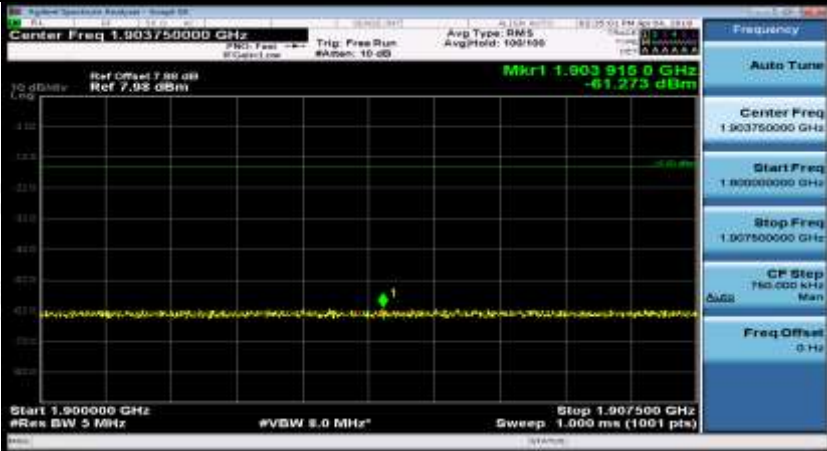
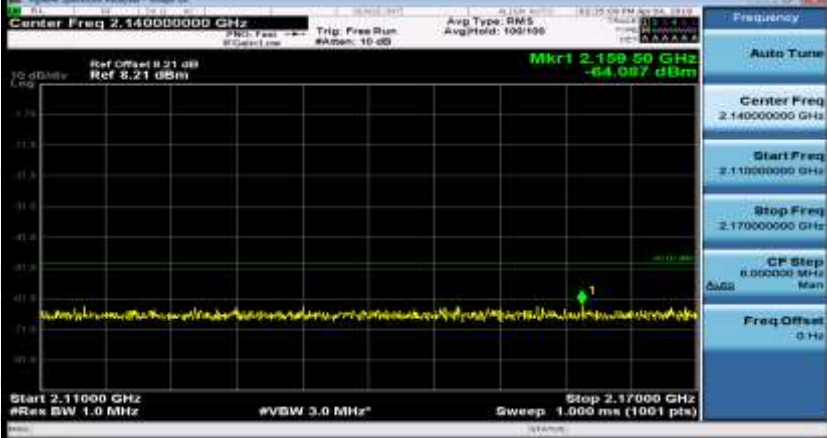
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General			
General			
General			

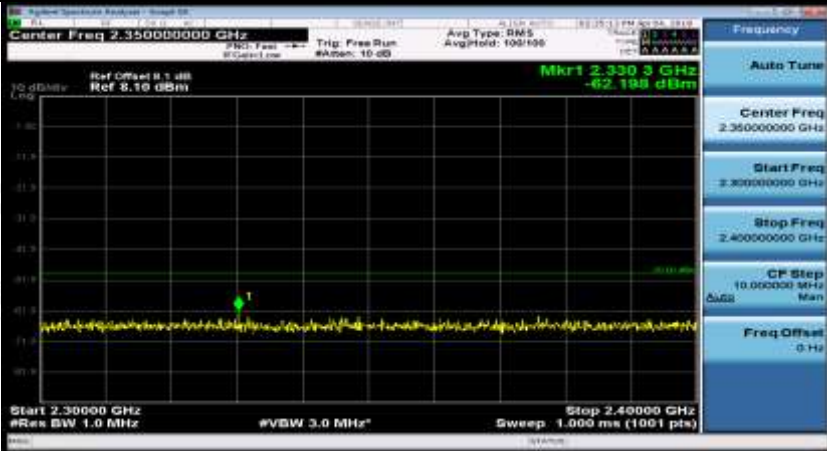
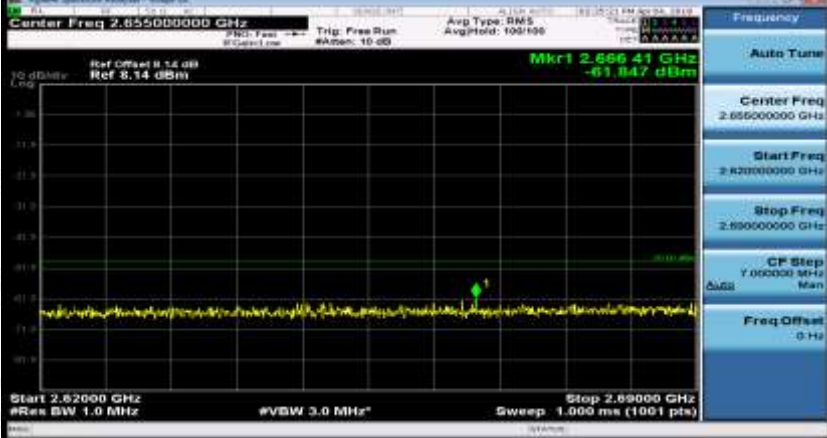
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Co-existence	
Co-existence	
Co-existence	

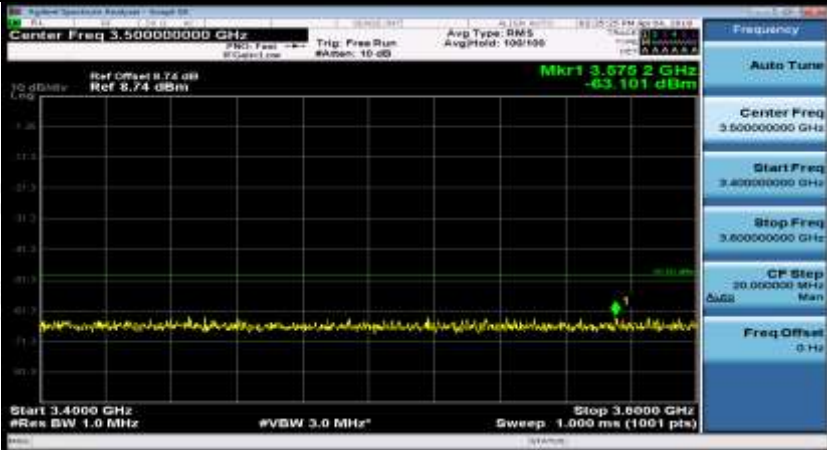
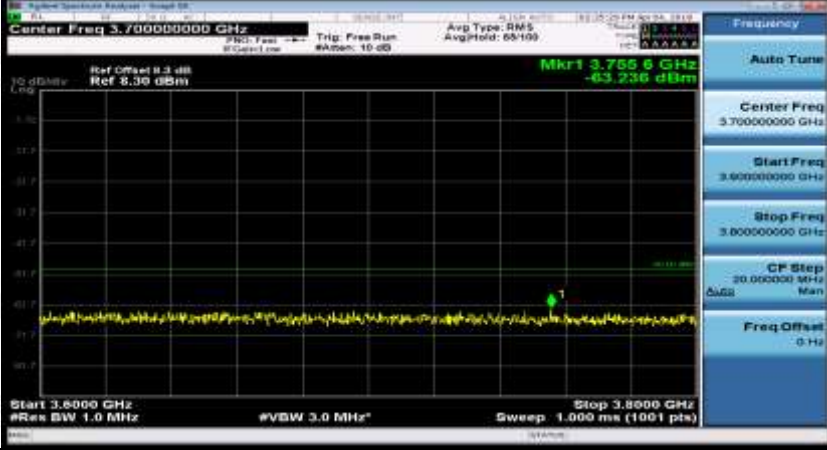
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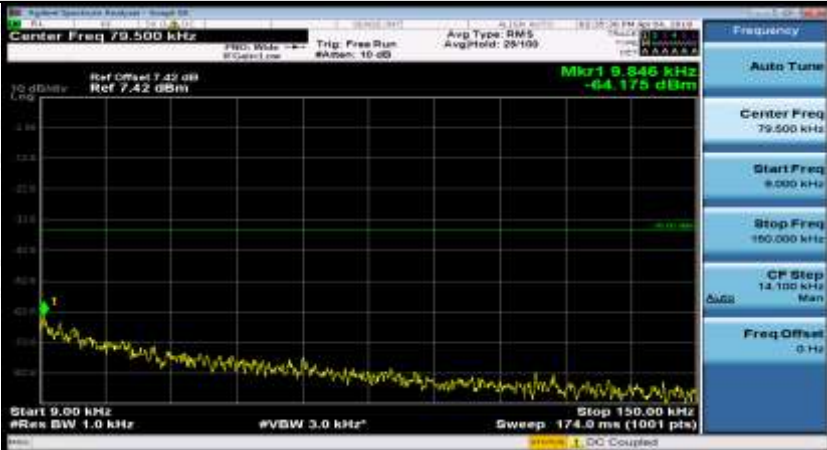
Co-existence	
Co-existence	
Co-existence	

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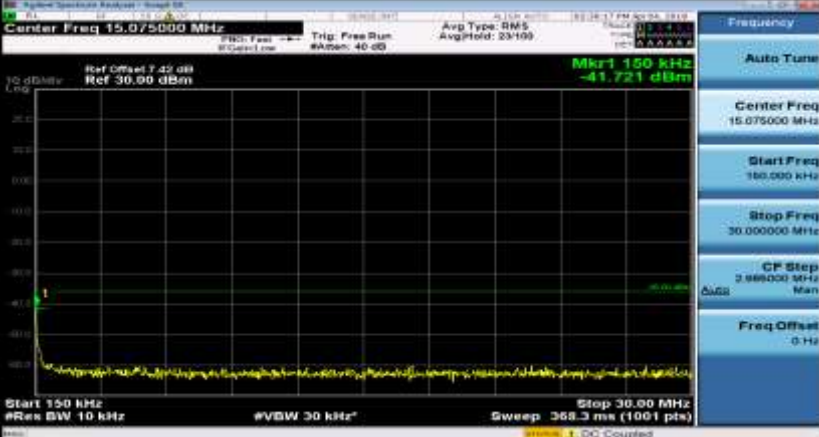
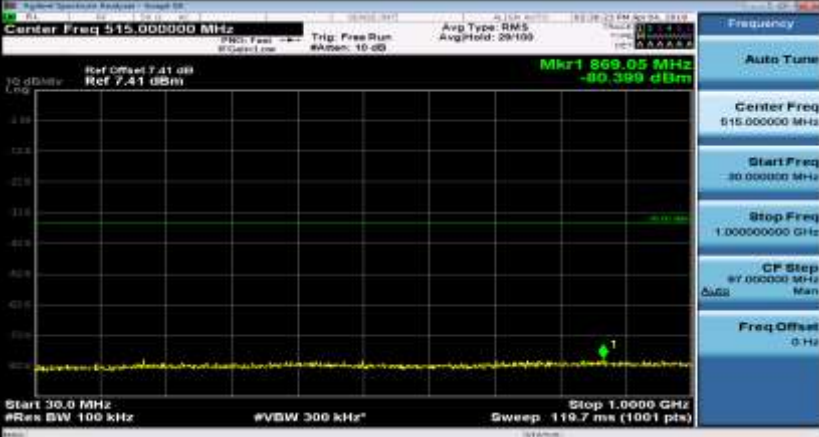
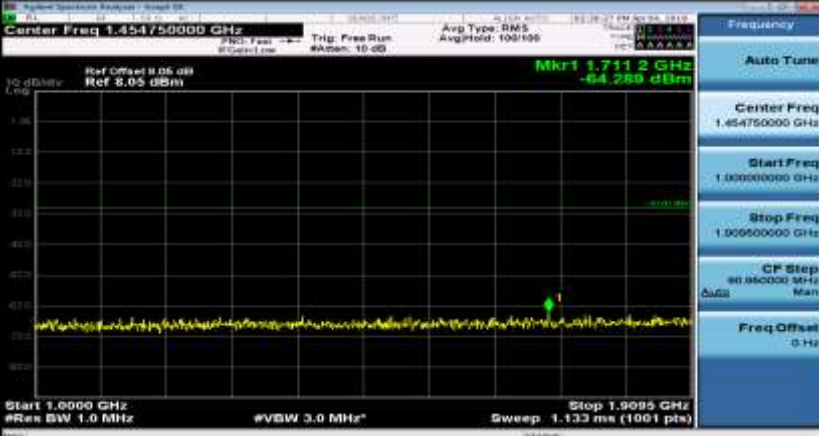
Co-existence	
Co-existence	
Co-existence	

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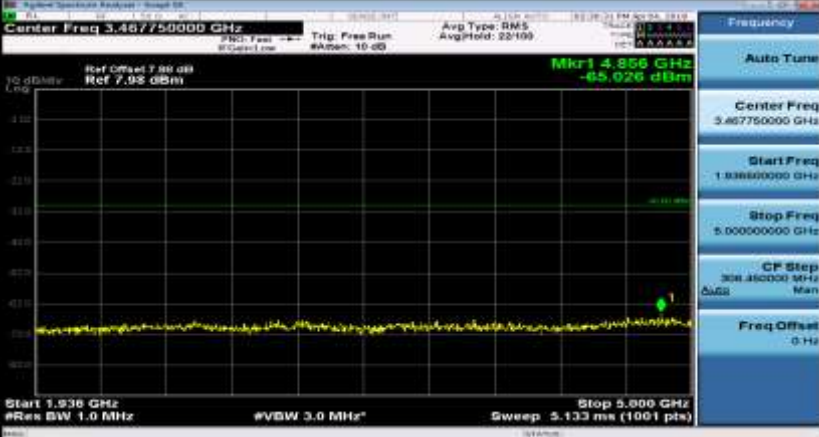
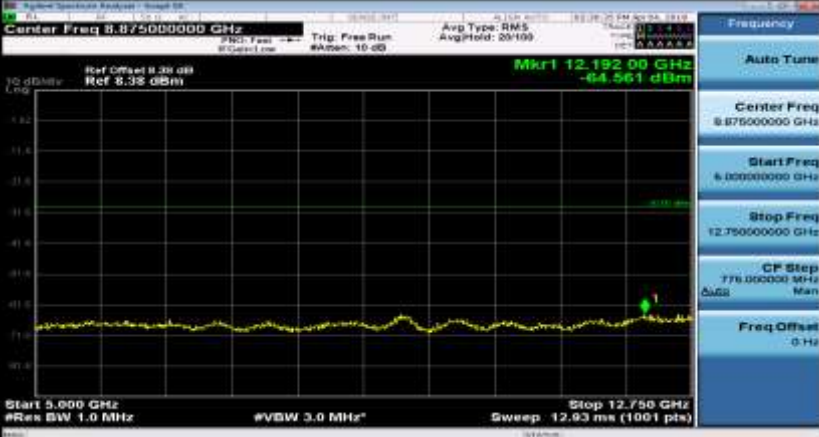

Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_1RB#max	
General	

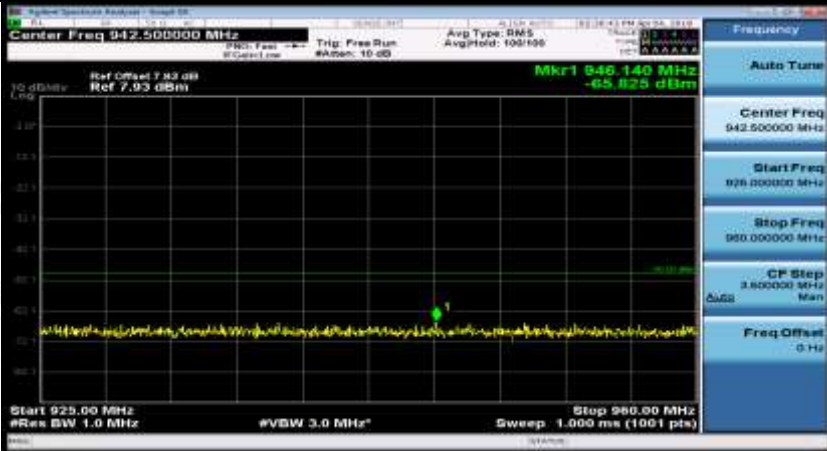
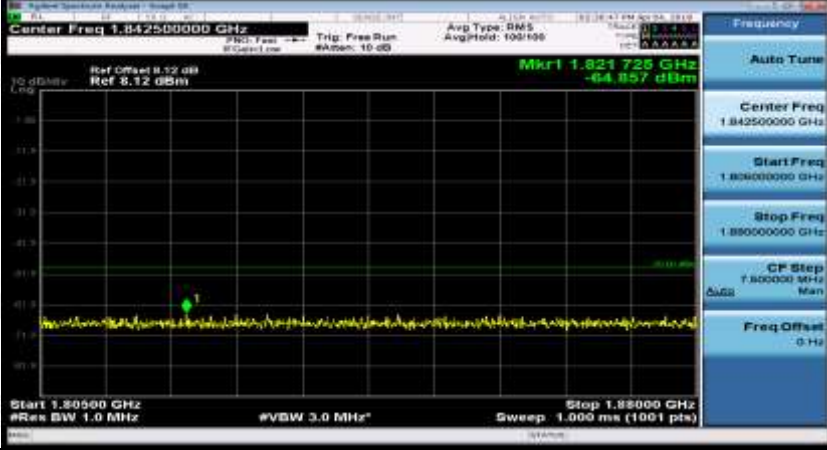
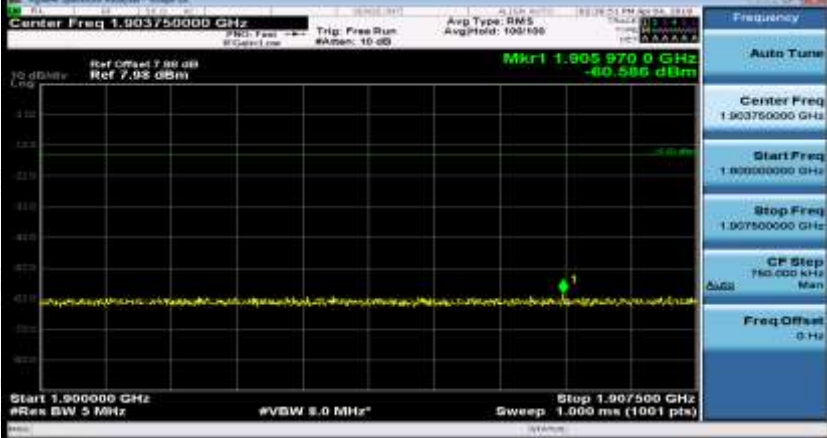
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General			
General			
General			

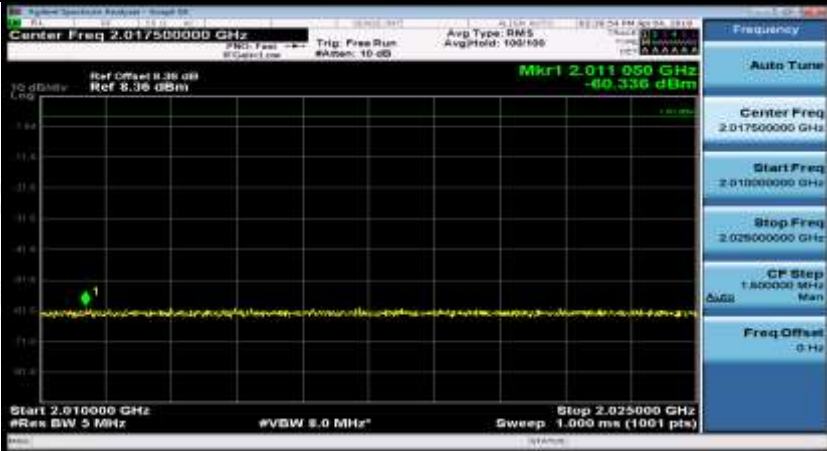
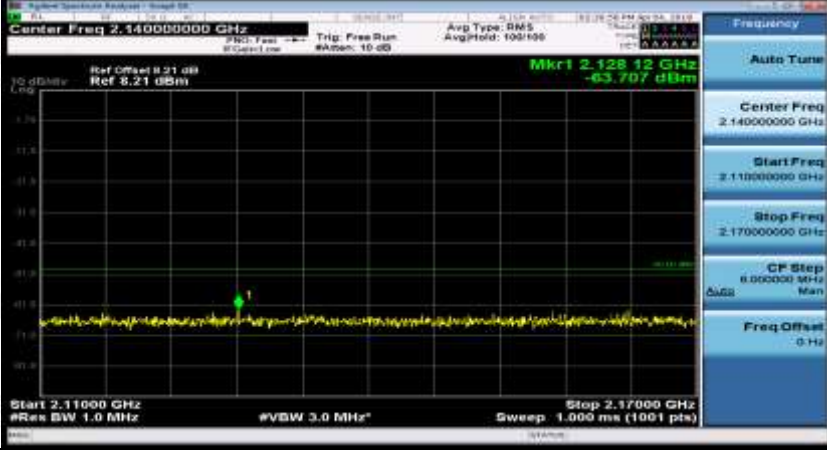
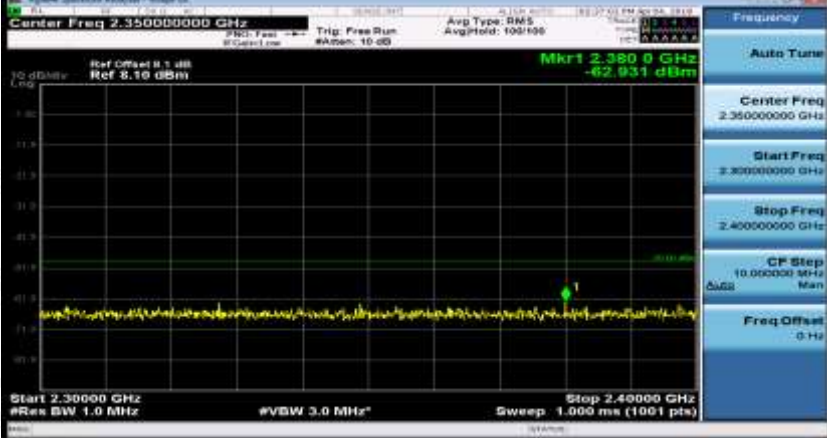
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General			
General			
Co-existence			

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Co-existence	
Co-existence	
Co-existence	

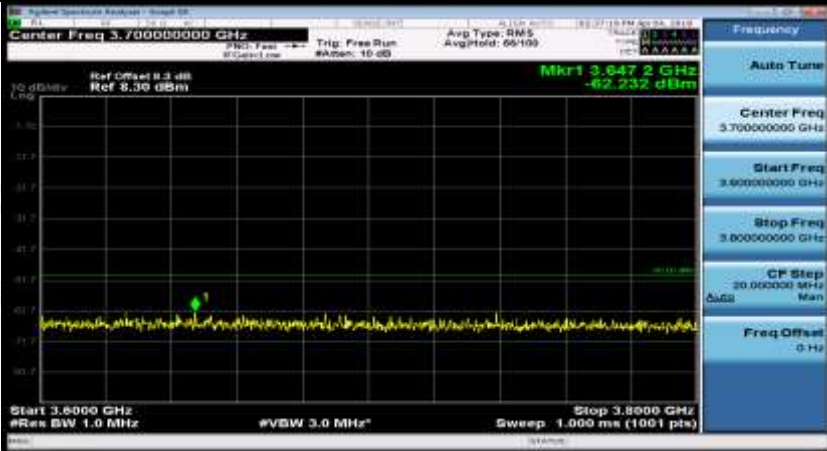
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

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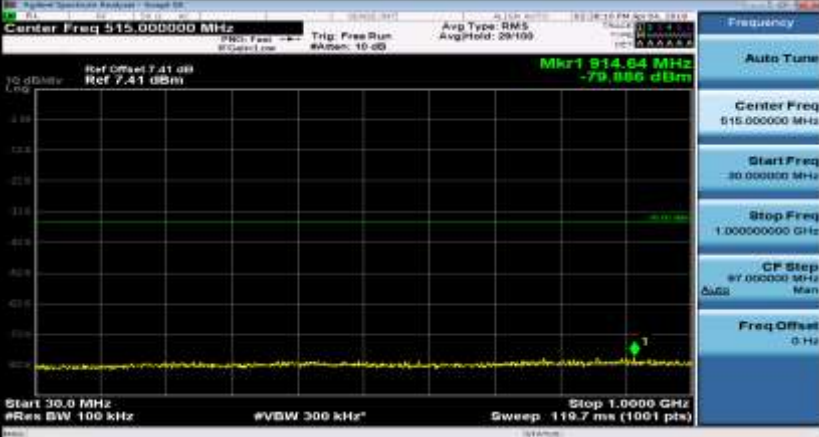
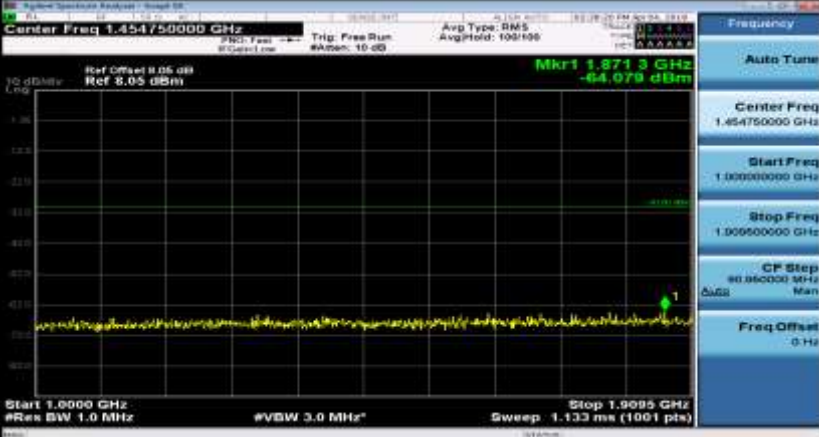
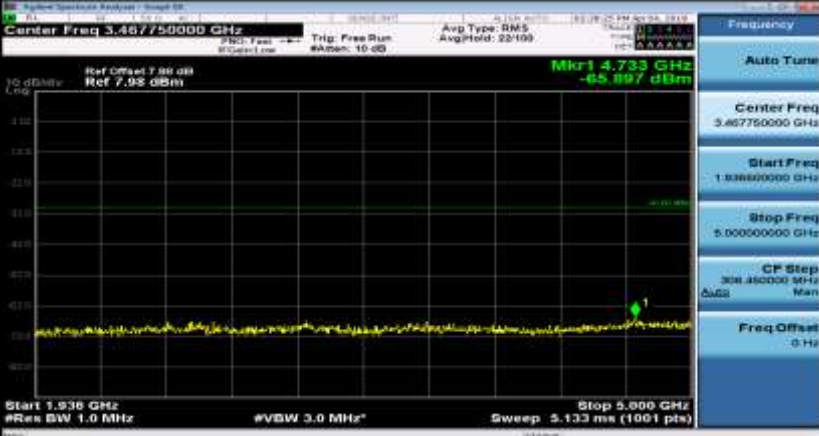
Co-existence	
Co-existence	
Co-existence	

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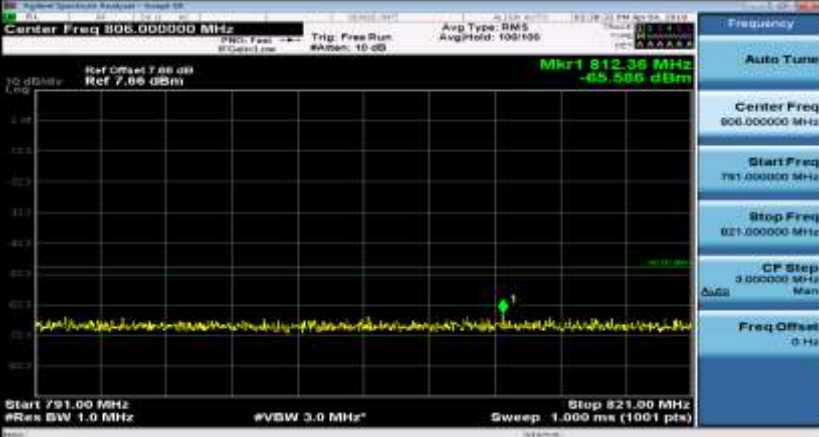
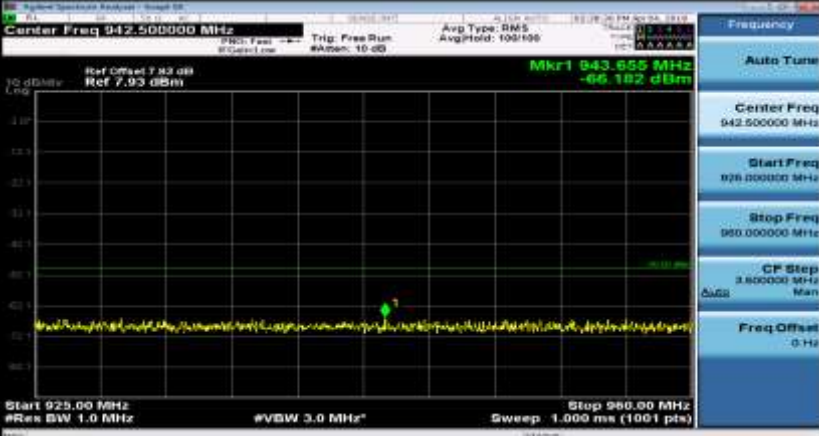
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullIRB#0	
General	
General	

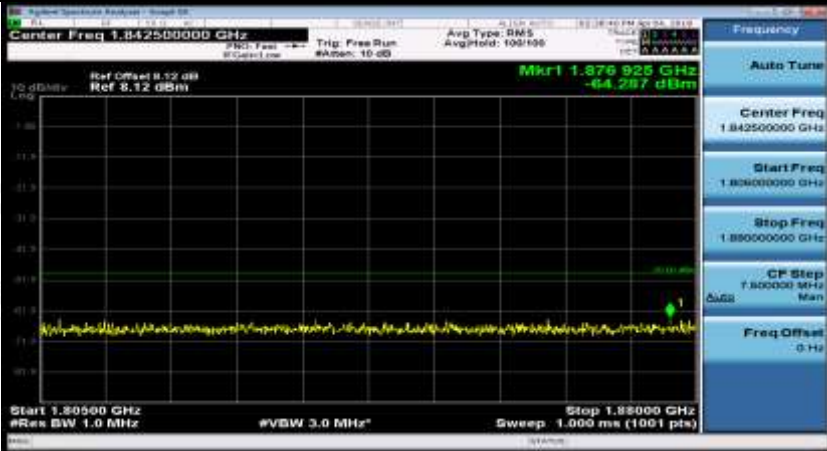

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General			
General			
General			


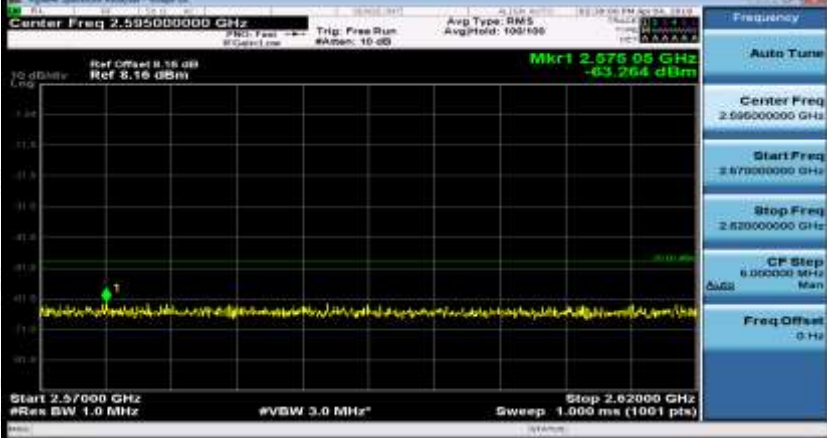
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General			
Co-existence			
Co-existence			

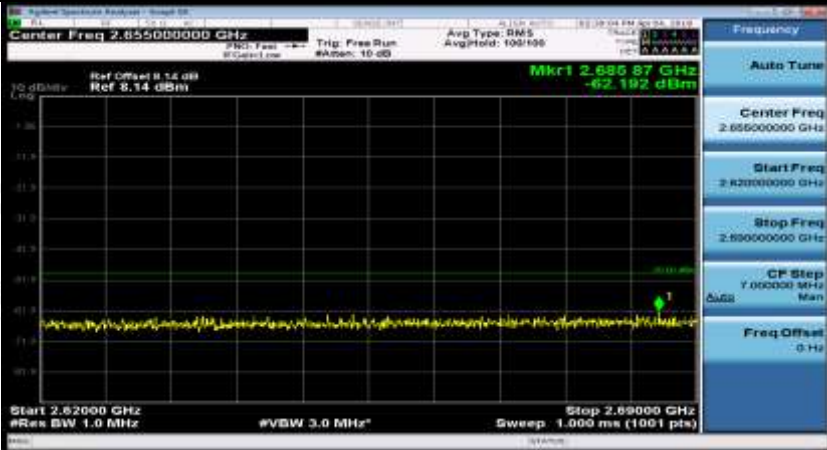
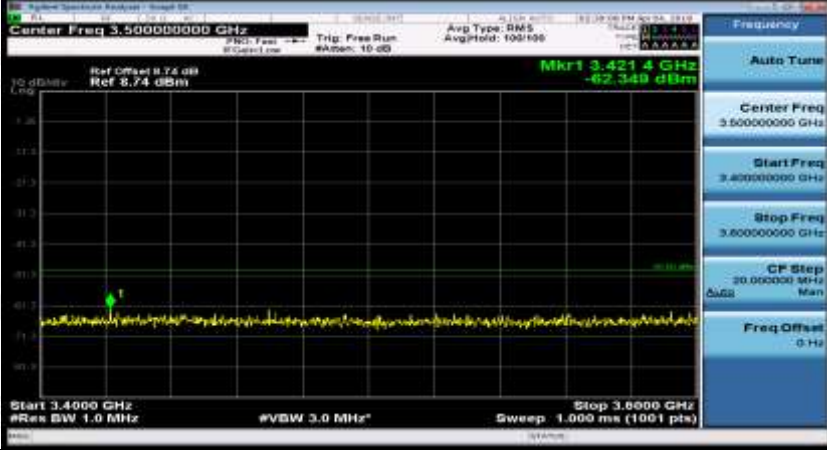

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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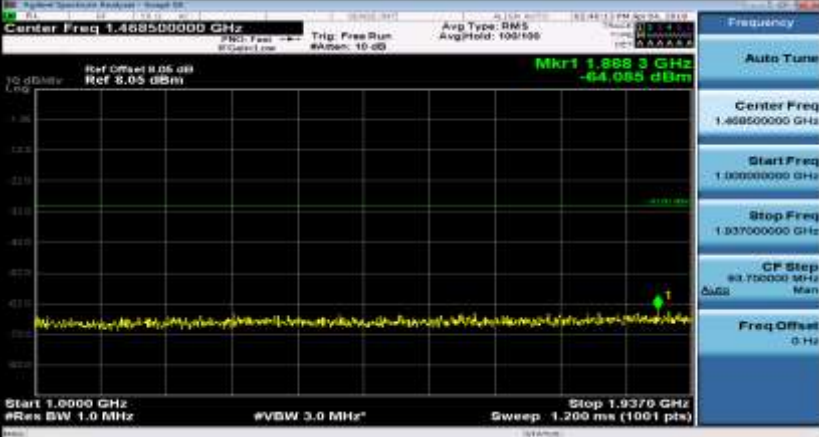
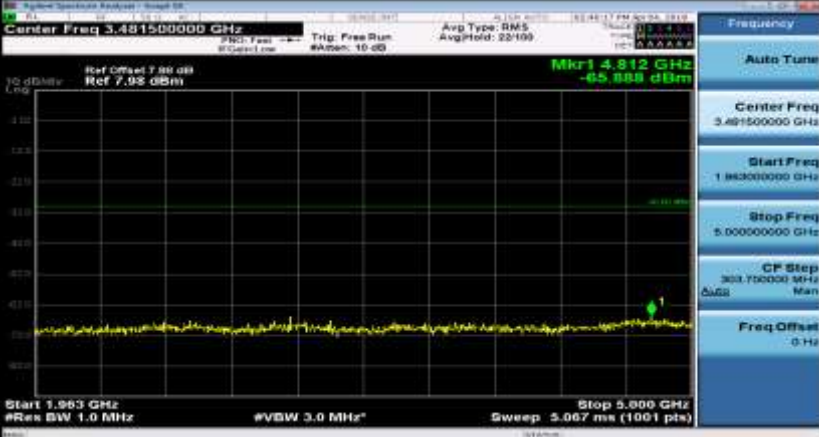
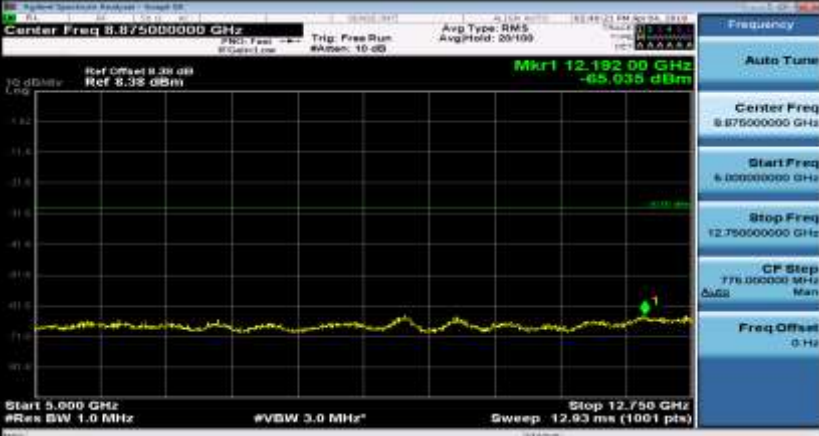
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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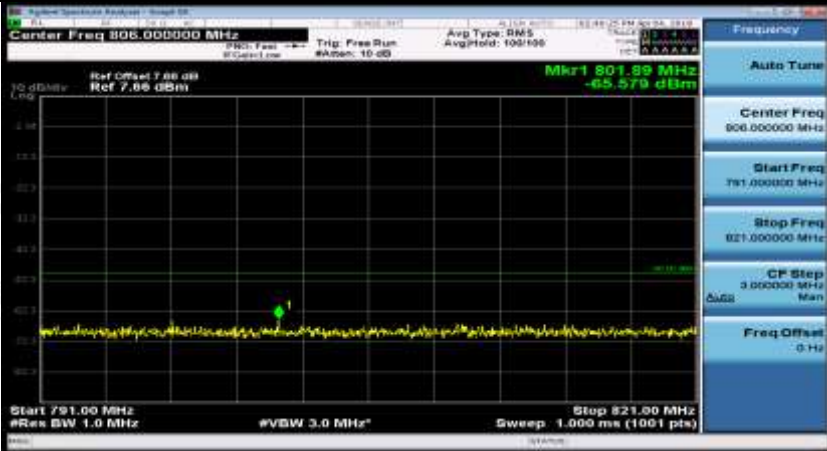
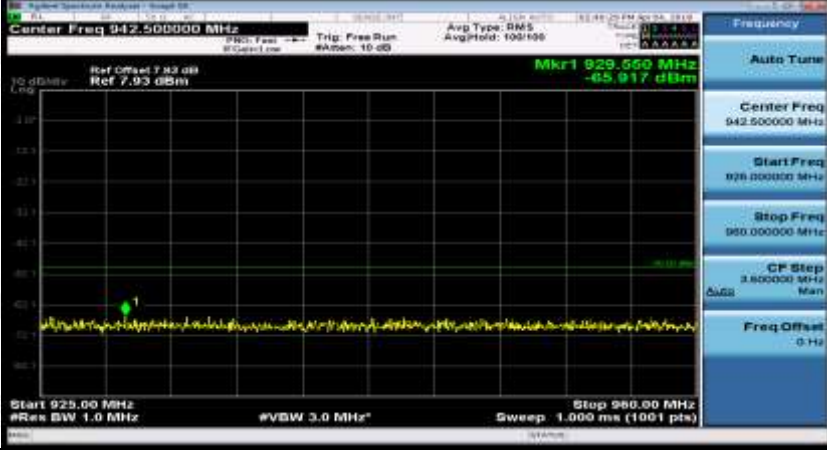
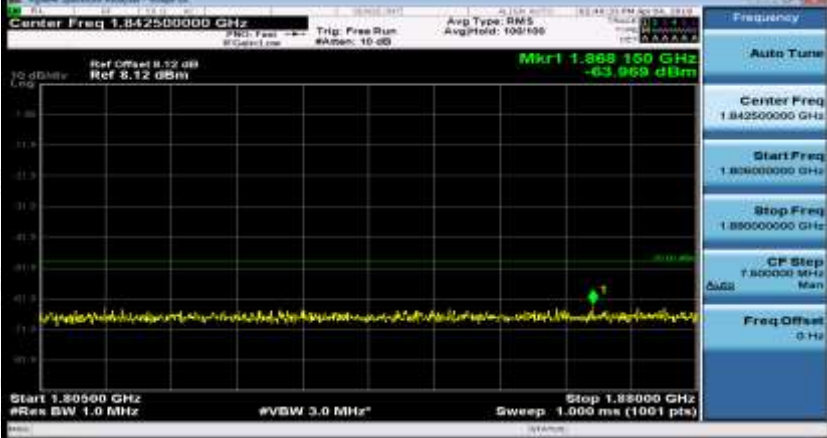
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#0

General	
General	
General	

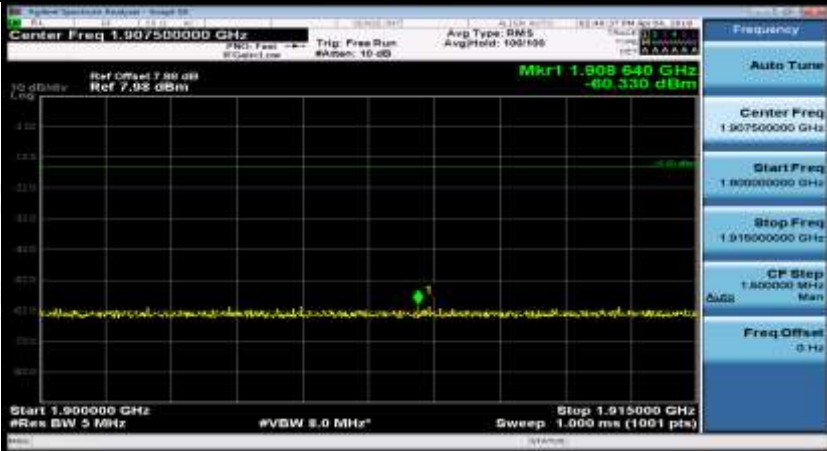
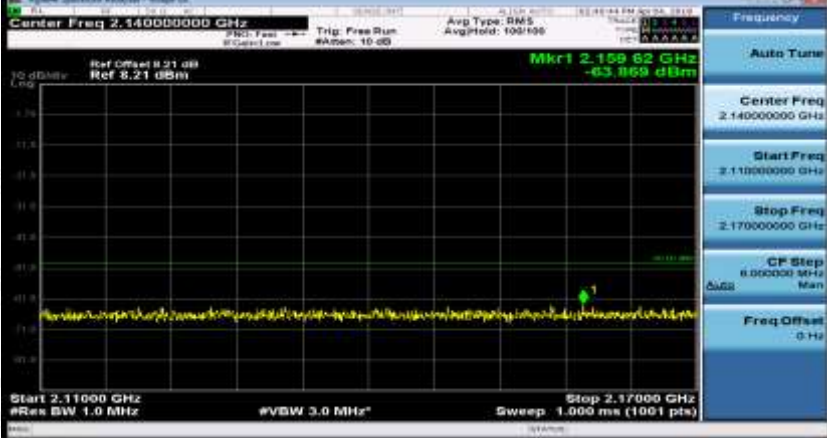
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General			
General			
General			

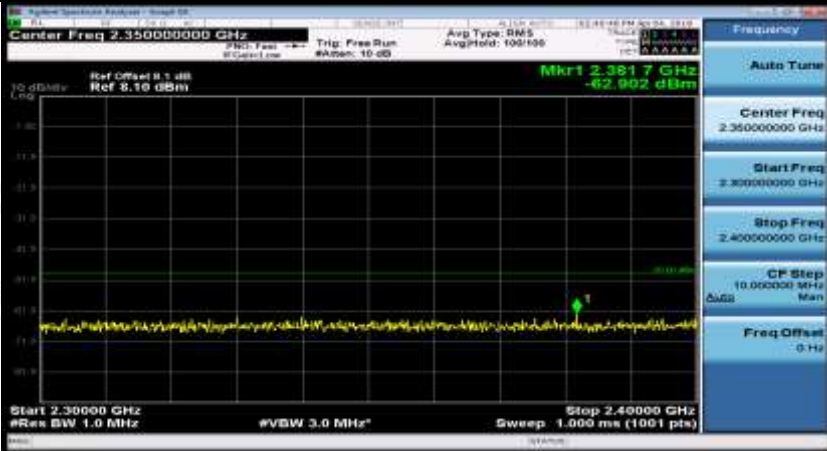


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Co-existence	
Co-existence	
Co-existence	

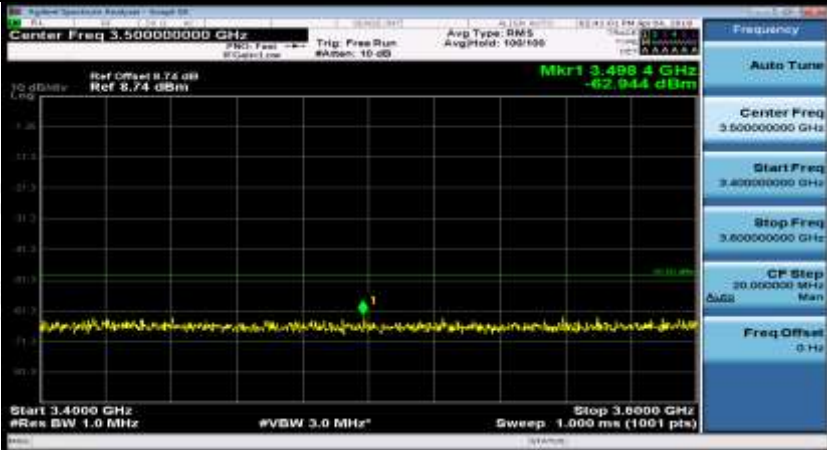
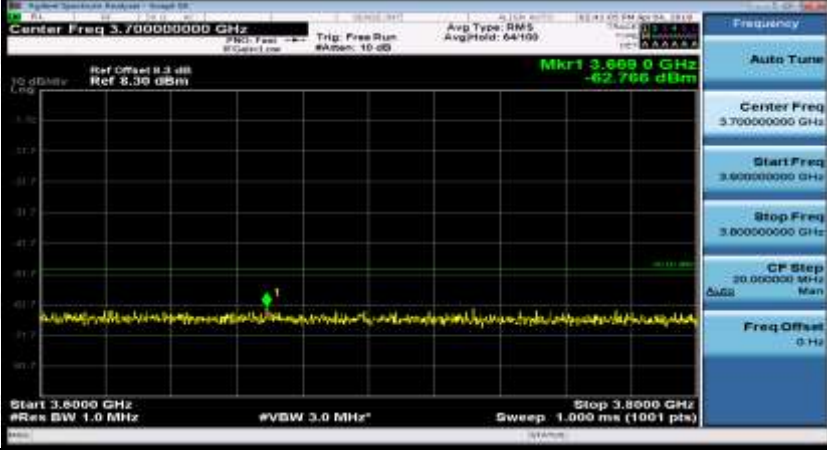
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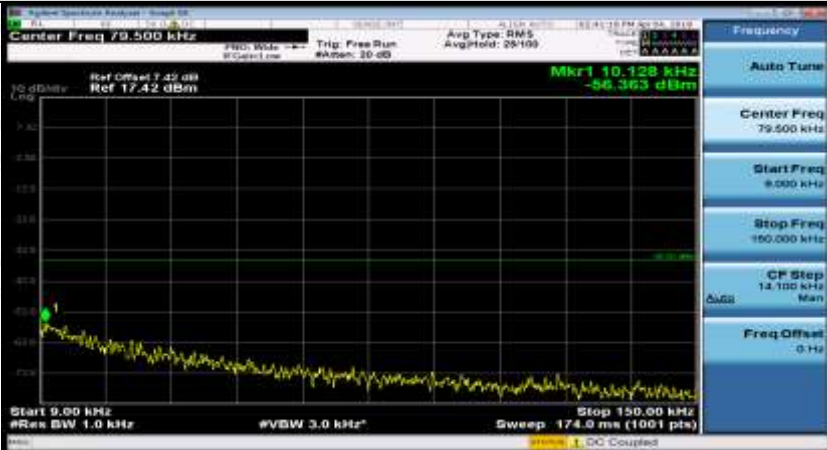
Co-existence	
Co-existence	
Co-existence	

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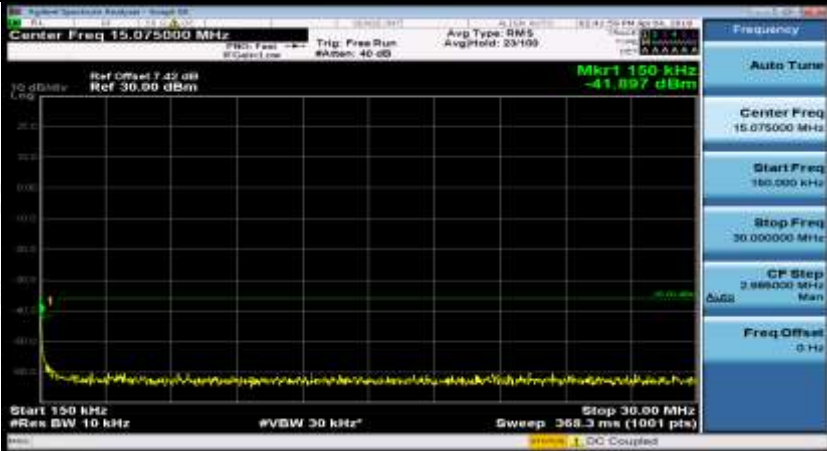
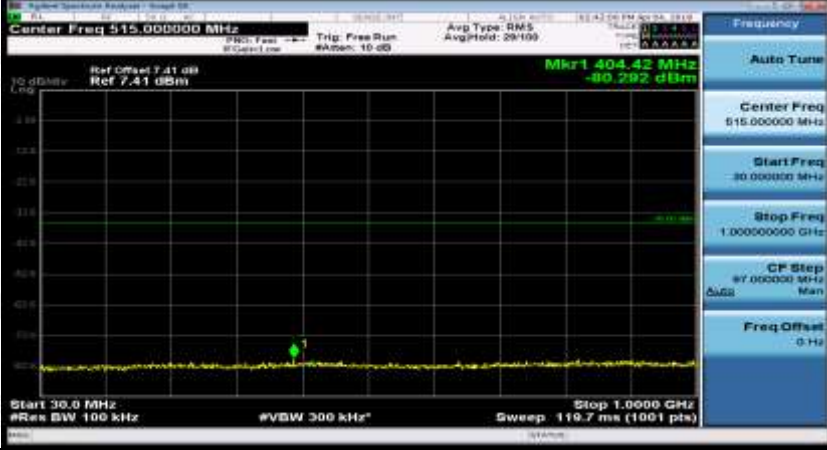
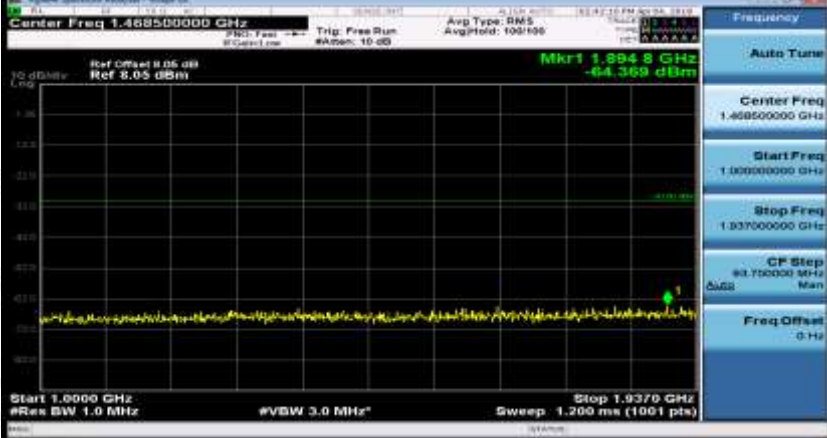
Co-existence	
Co-existence	
Co-existence	

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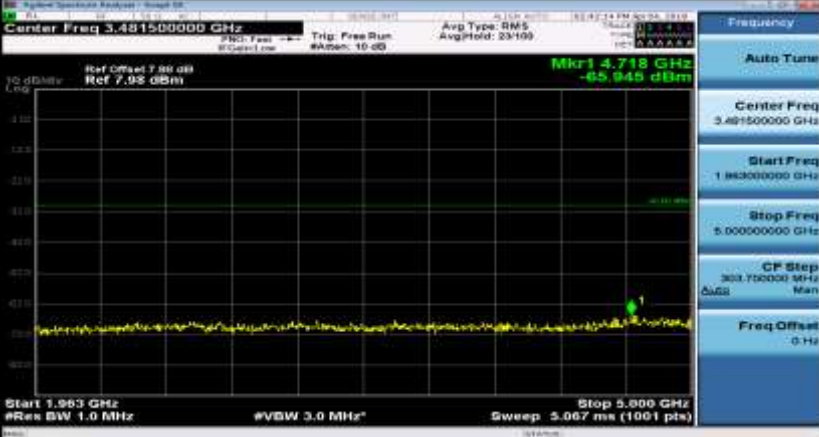
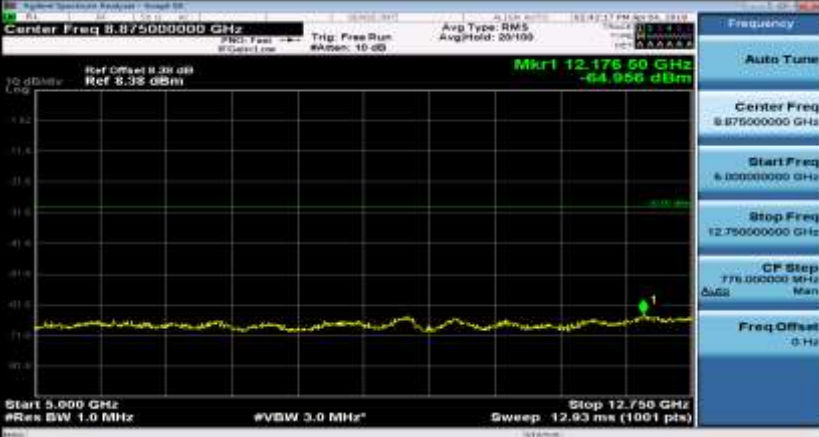
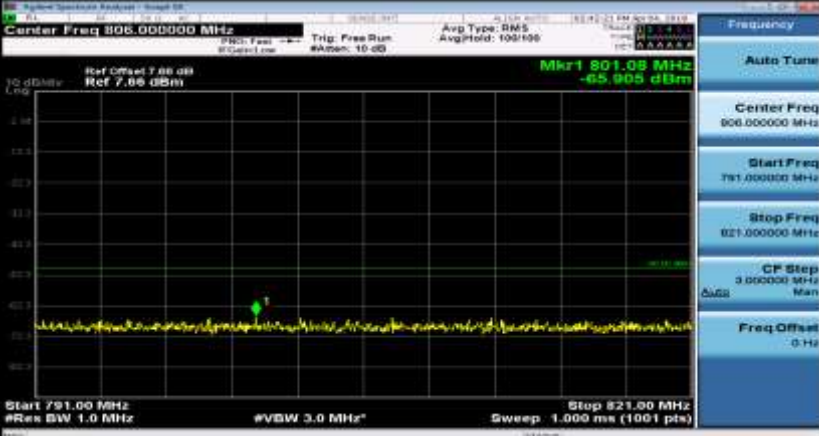
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#max	
General	

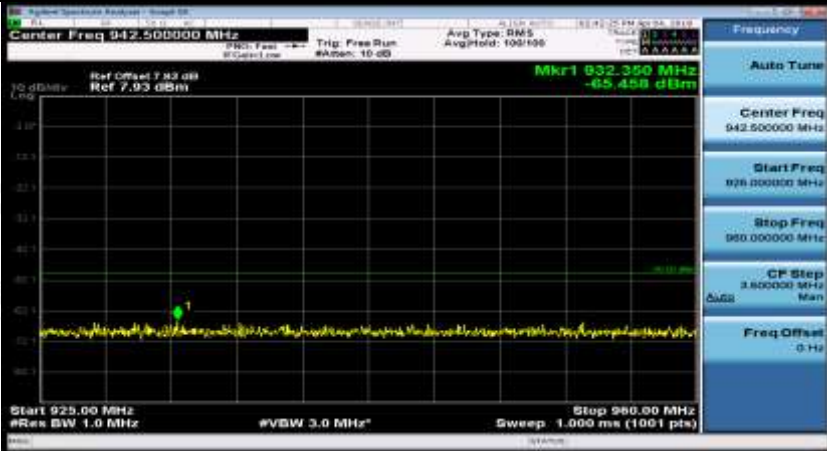
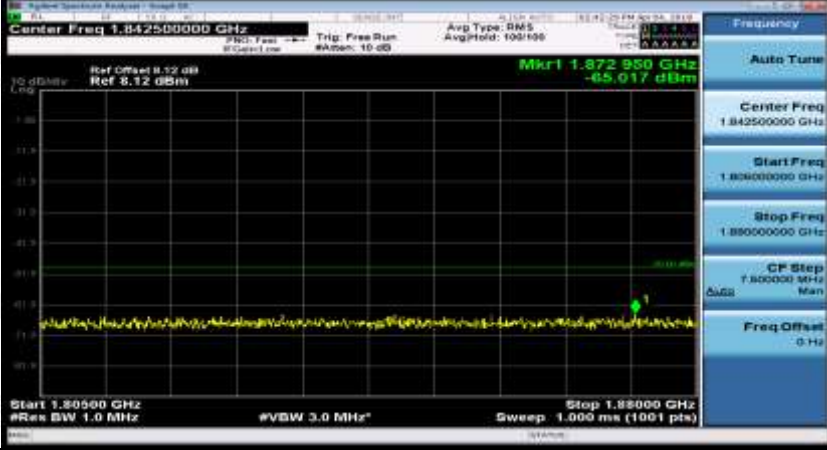
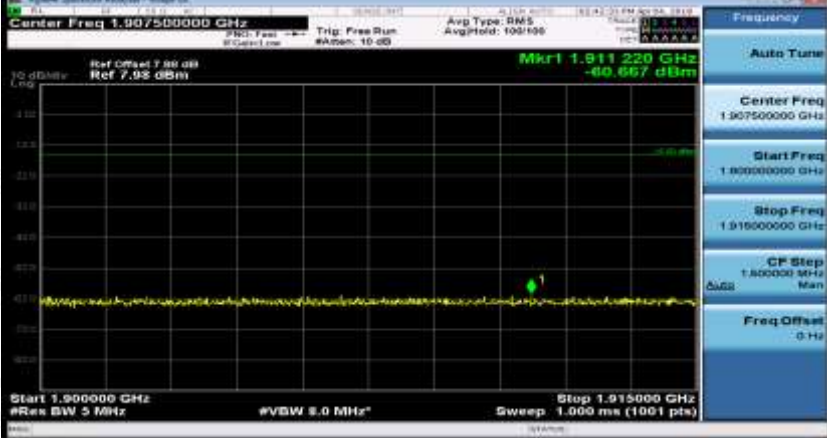
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General	
General	
General	

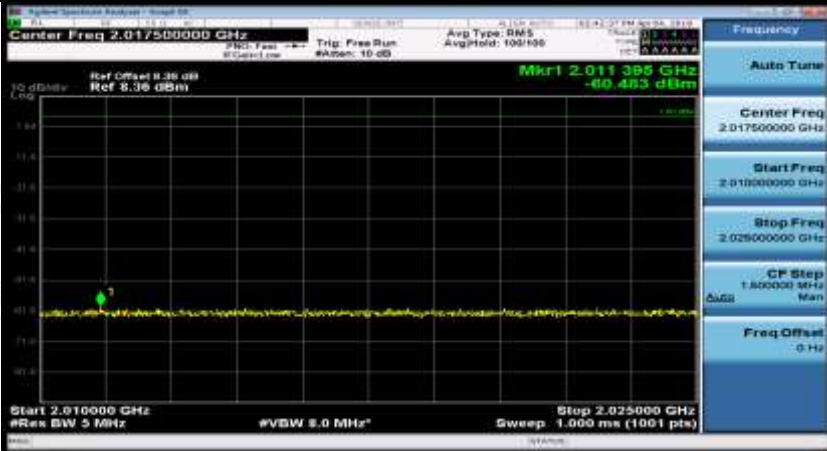
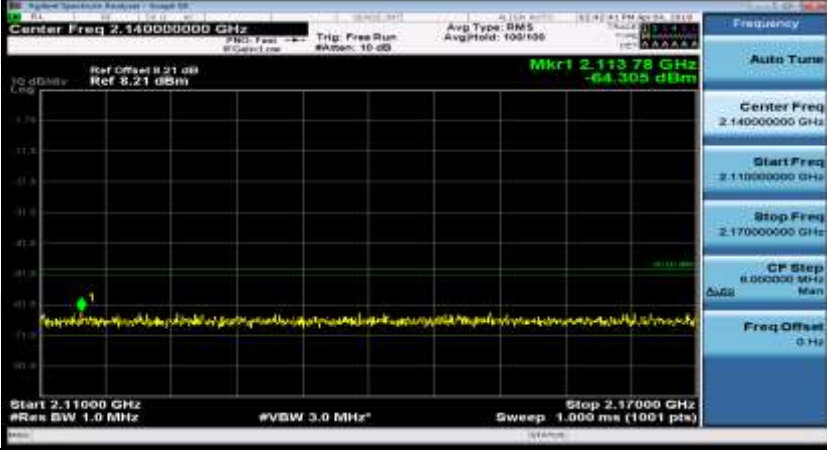
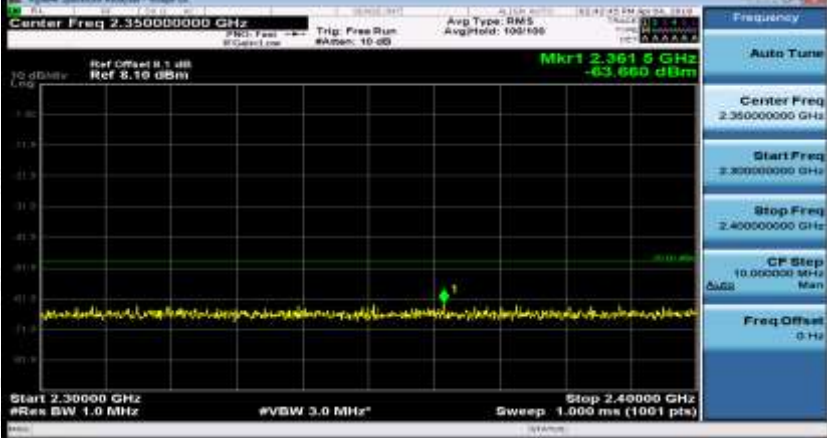
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General			
General			
Co-existence			

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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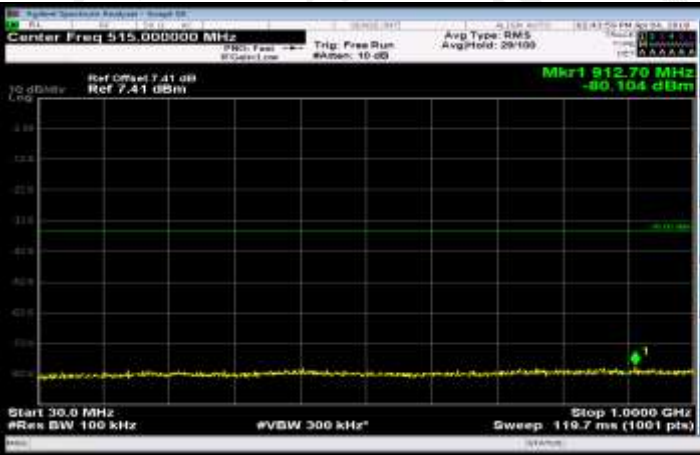
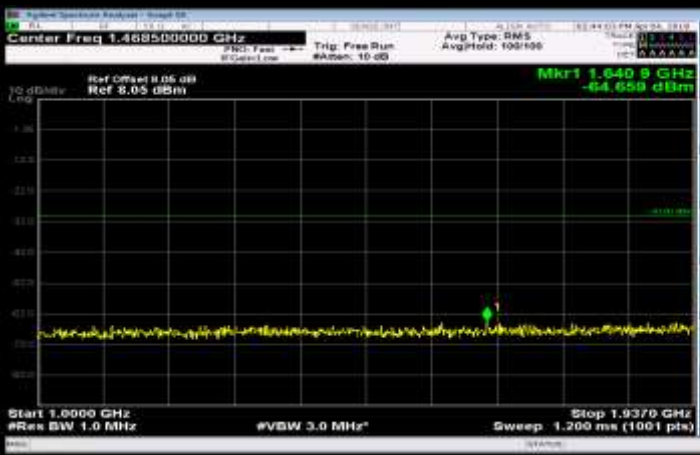

Co-existence	
Co-existence	
Co-existence	

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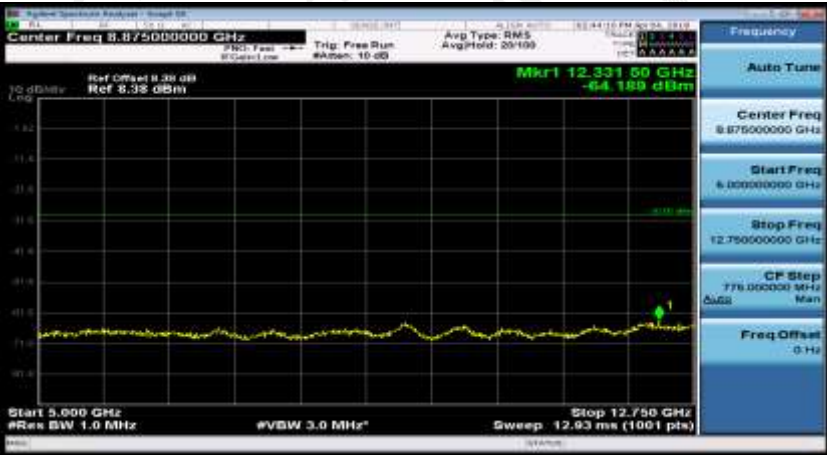
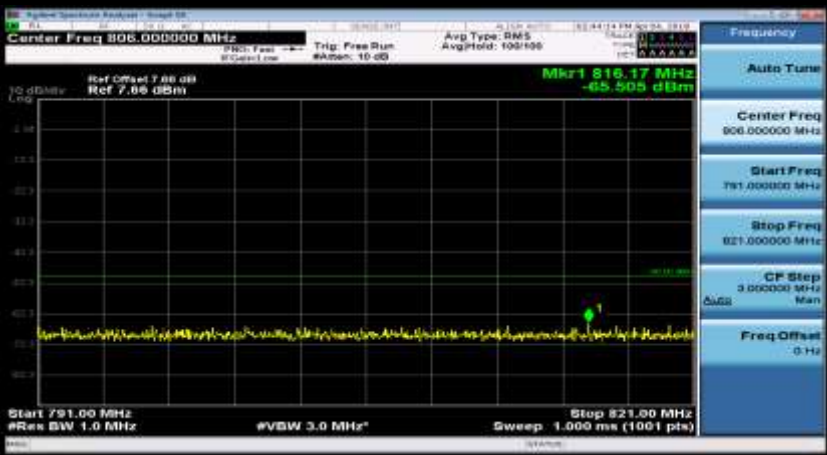
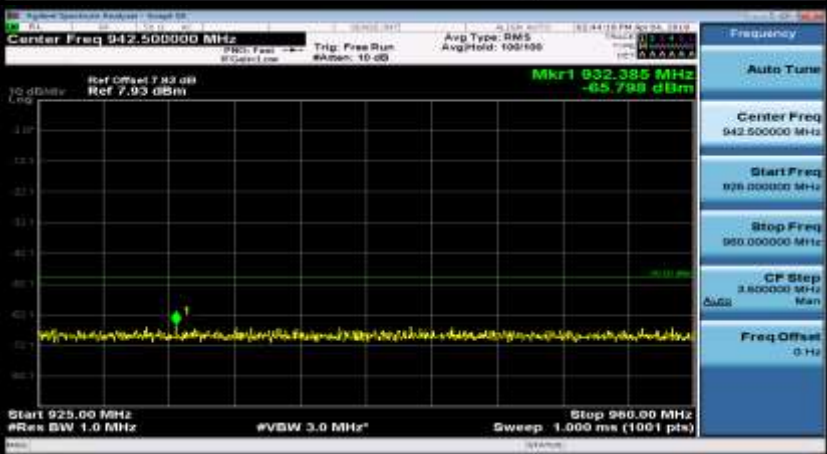
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullIRB#0	
General	
General	

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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.00000000 GHz</p> <p>CF Step 87.000000 MHz Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 1.65500000 GHz</p> <p>Start Freq 1.00000000 GHz</p> <p>Stop Freq 1.93700000 GHz</p> <p>CF Step 83.700000 MHz Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.48150000 GHz</p> <p>Start Freq 1.86200000 GHz</p> <p>Stop Freq 5.00000000 GHz</p> <p>CF Step 303.700000 MHz Man</p> <p>Freq Offset 0 Hz</p>

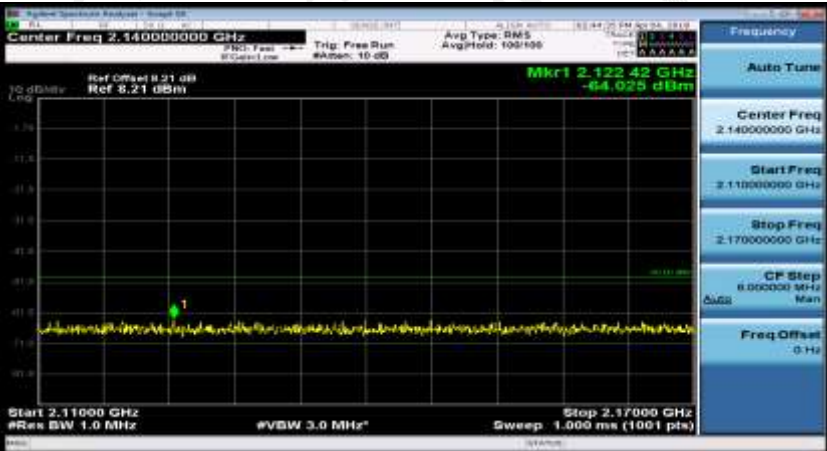
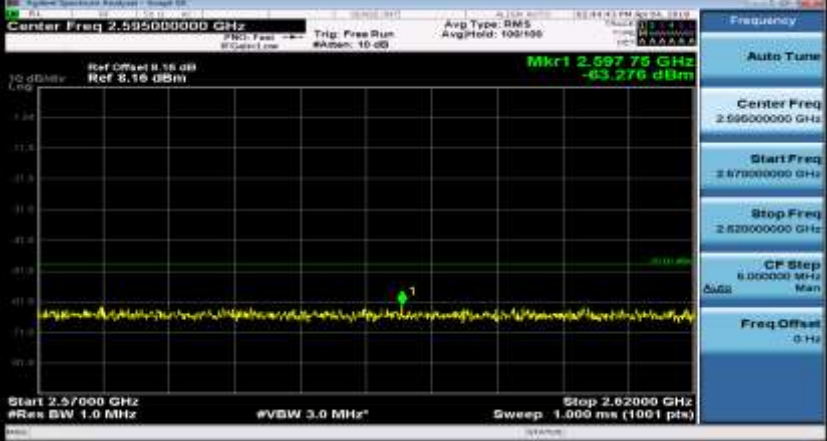
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General	
Co-existence	
Co-existence	

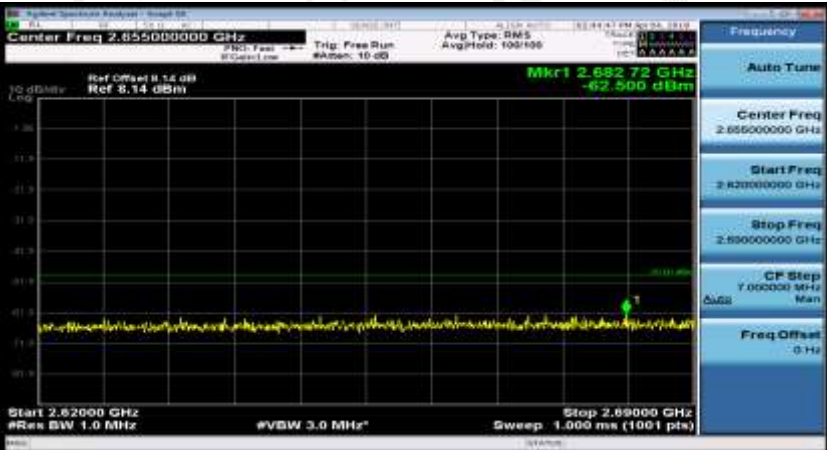
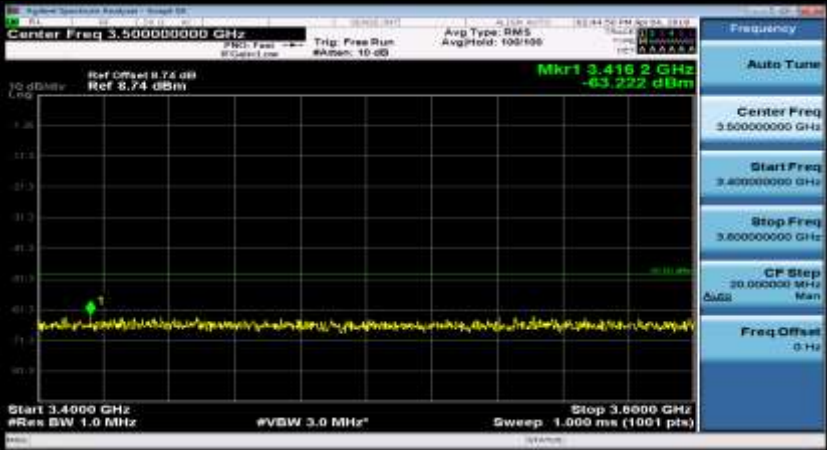
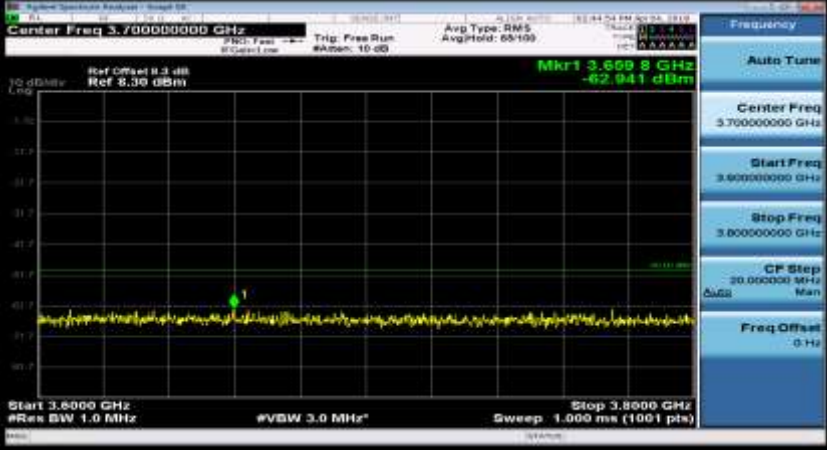
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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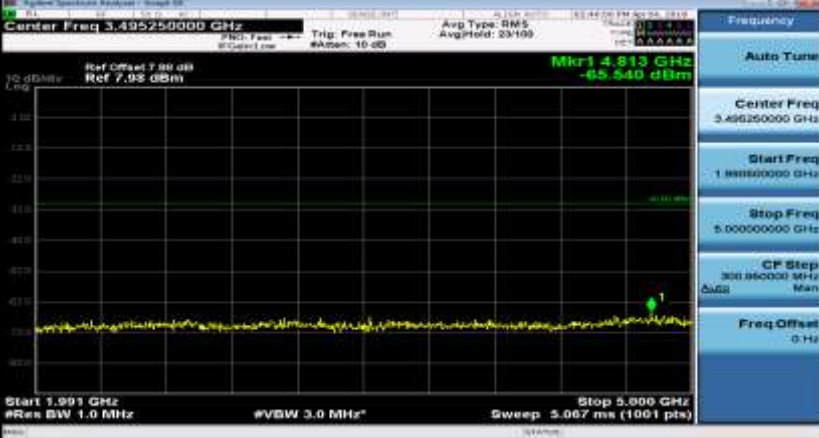

Co-existence	
Co-existence	
Co-existence	
Additional	NA

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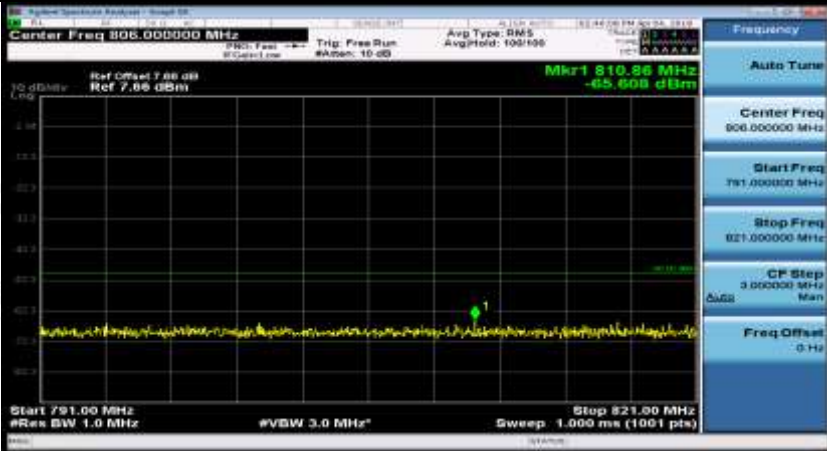
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#0

General	
General	
General	

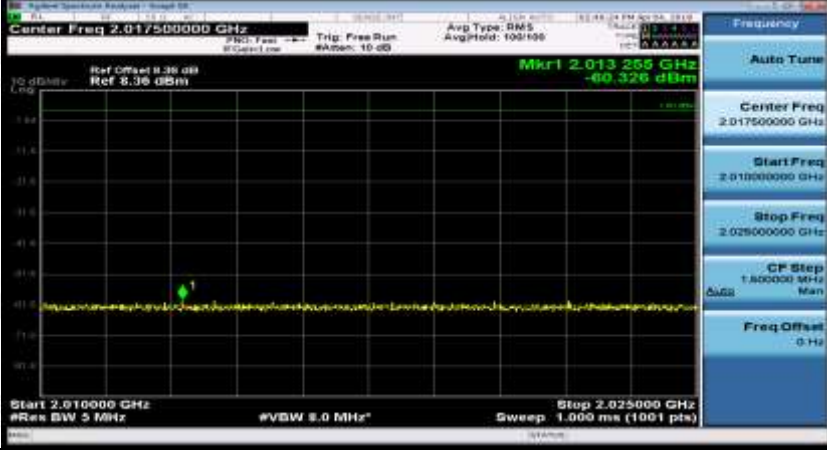
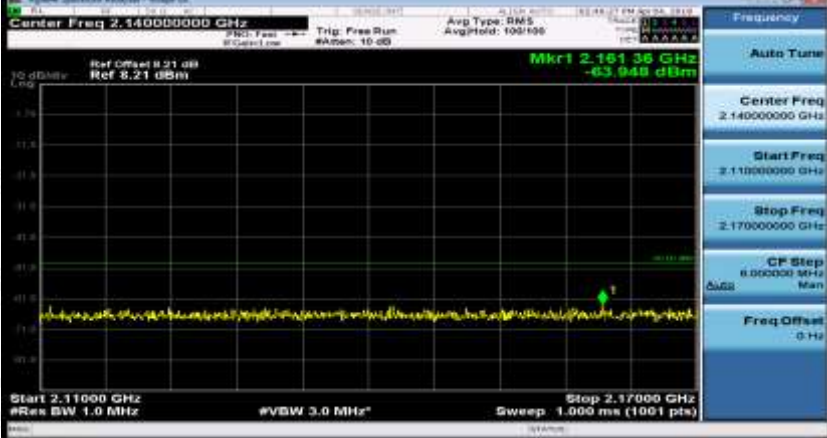
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General			
General			
General			


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Co-existence	
Co-existence	
Co-existence	

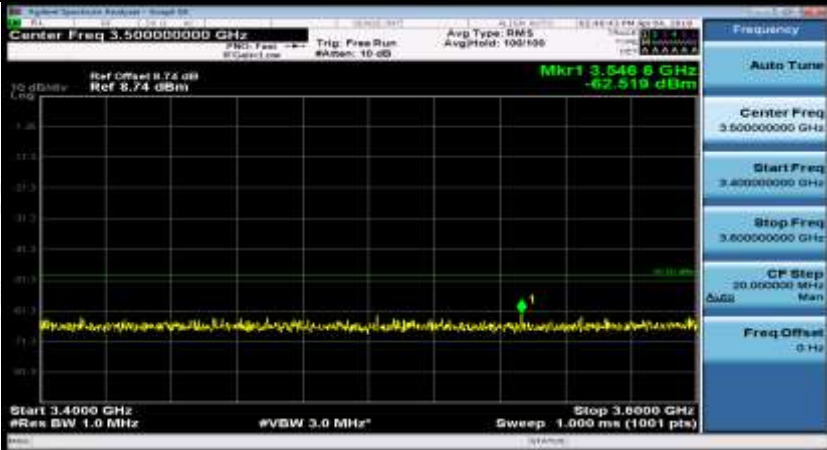
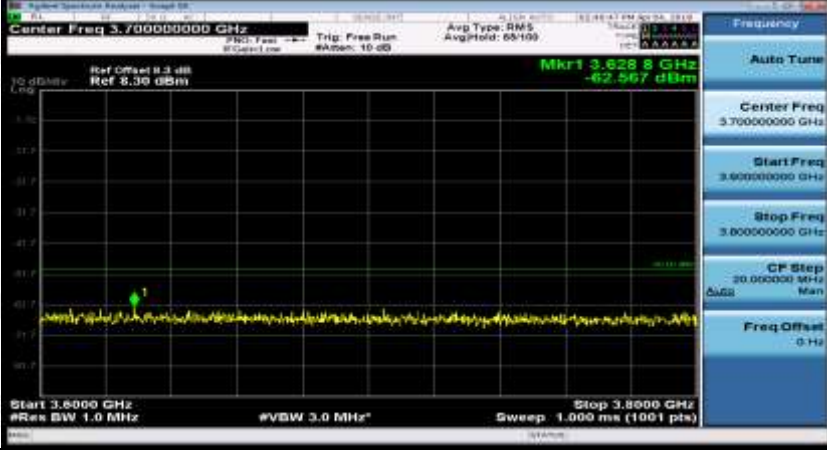
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.


Co-existence	
Co-existence	
Co-existence	

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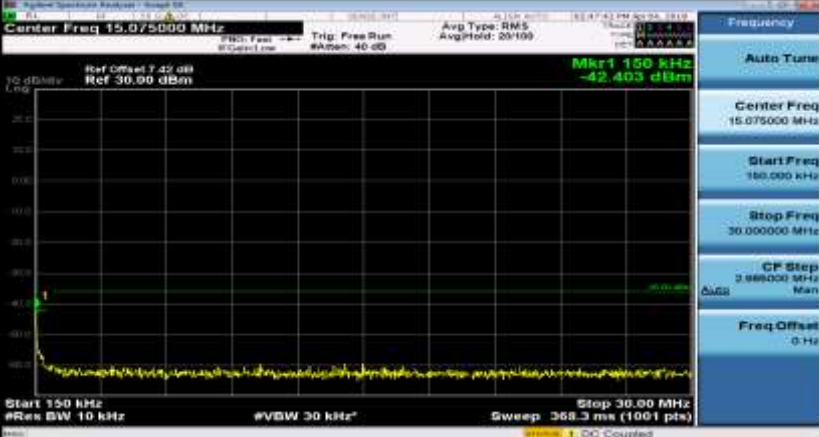
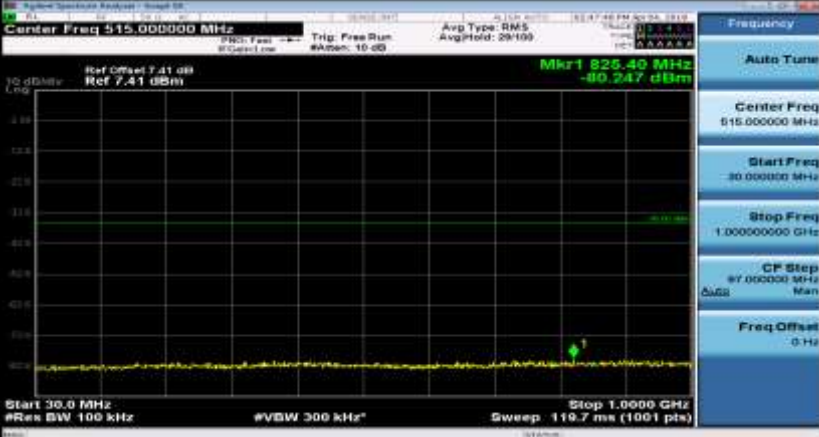
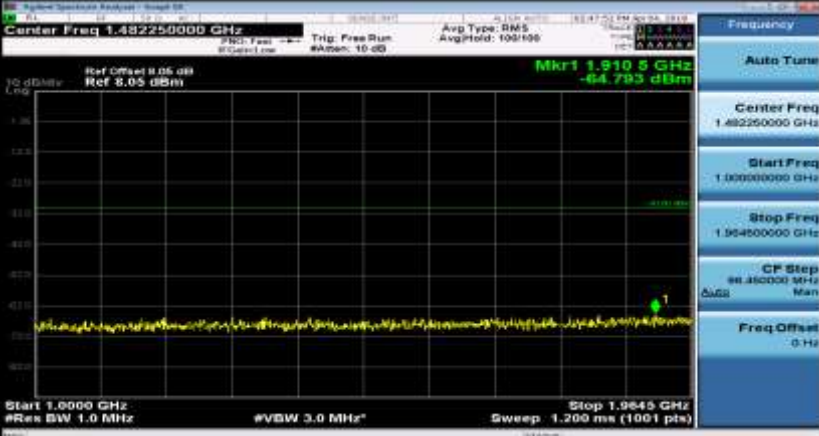
Co-existence	
Co-existence	
Co-existence	

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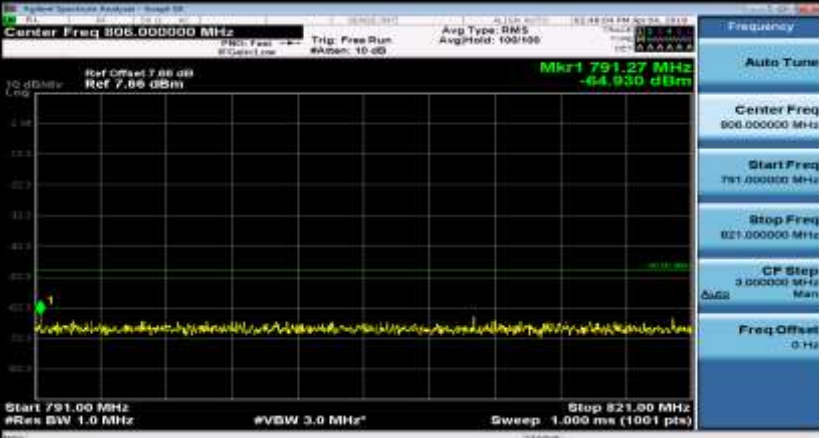
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#max	
General	

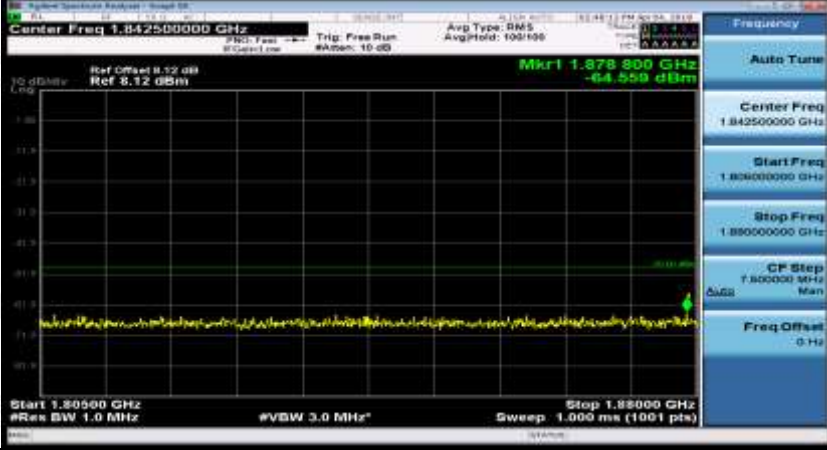
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General			
General			
General			

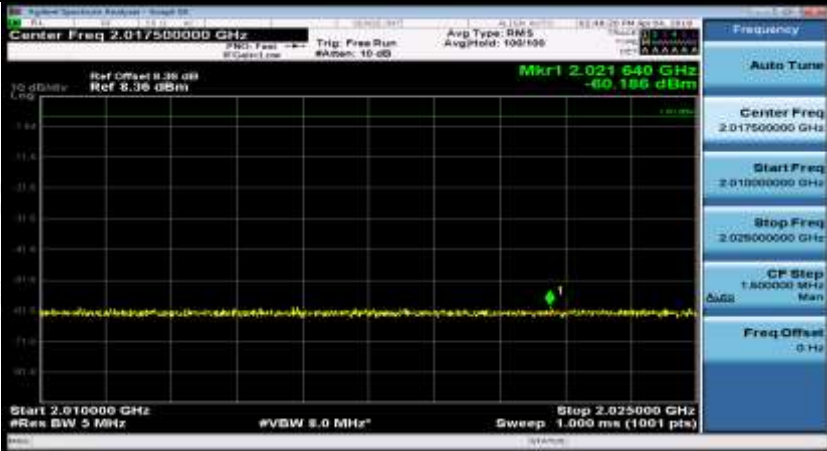
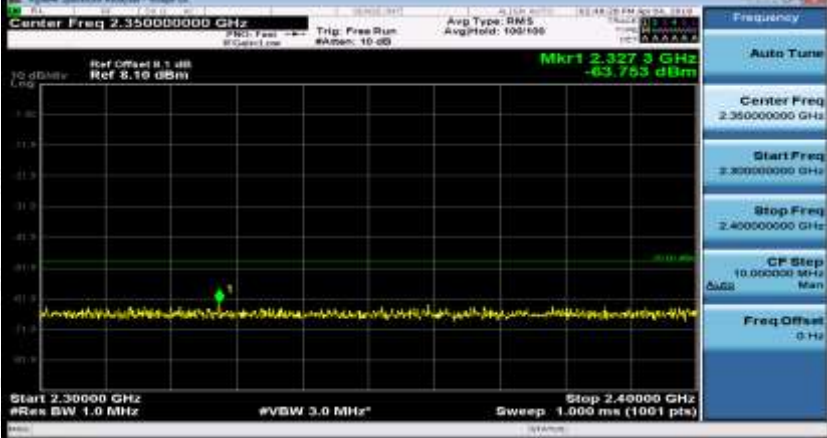
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General			
General			
Co-existence			

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Co-existence	
Co-existence	
Co-existence	

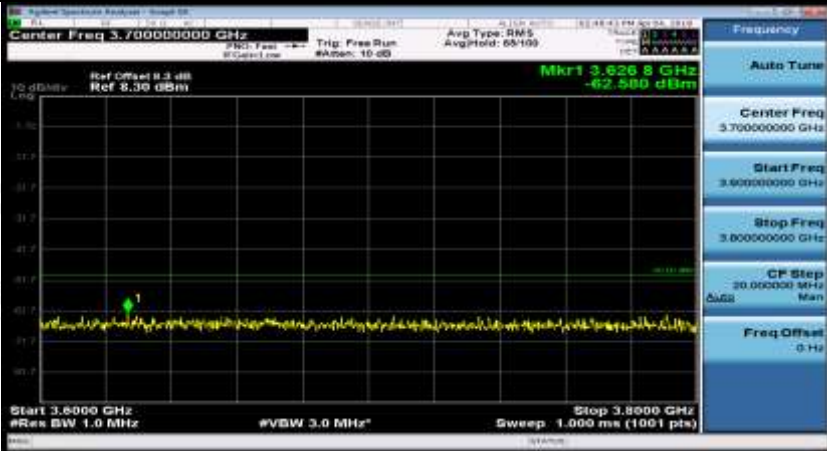
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.


Co-existence	
Co-existence	
Co-existence	

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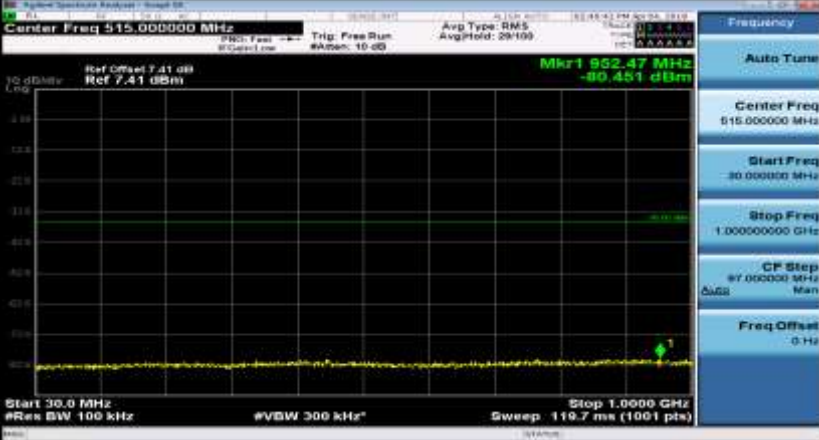
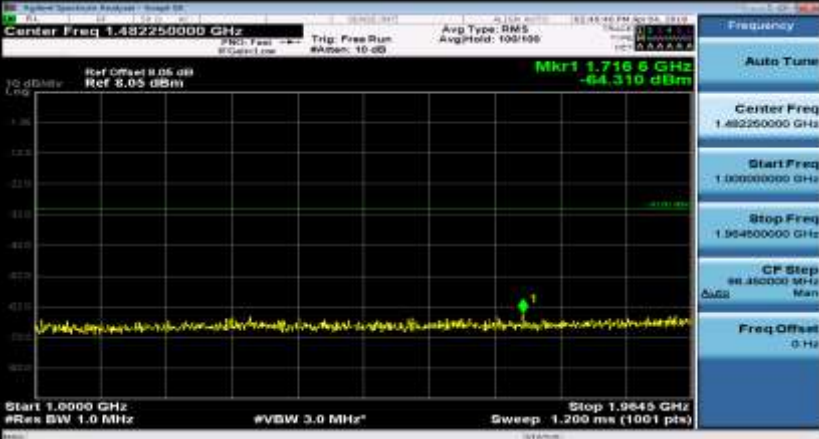
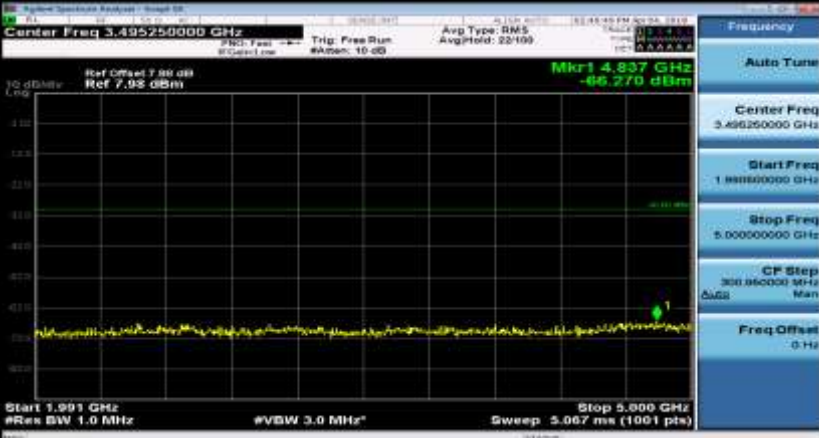
Co-existence	
Co-existence	
Co-existence	

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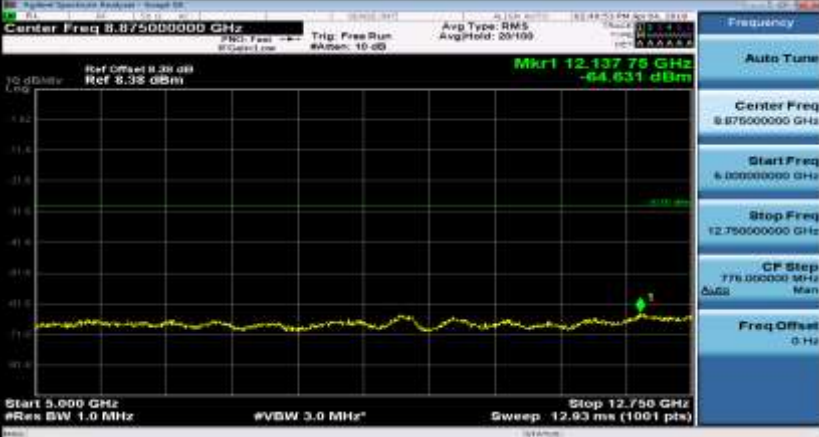
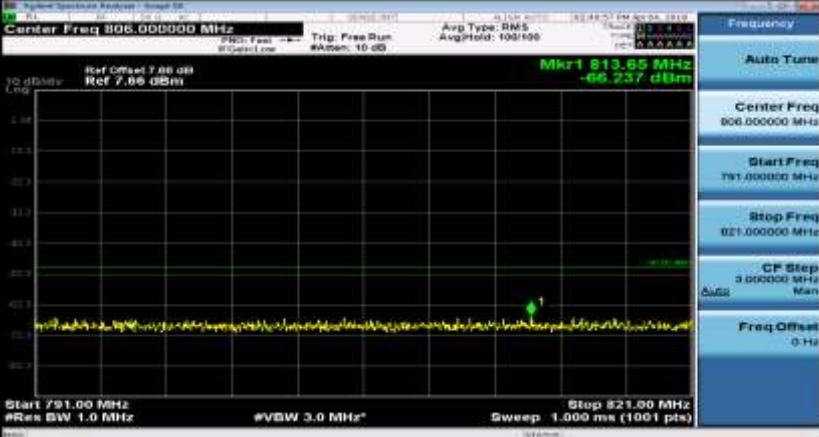
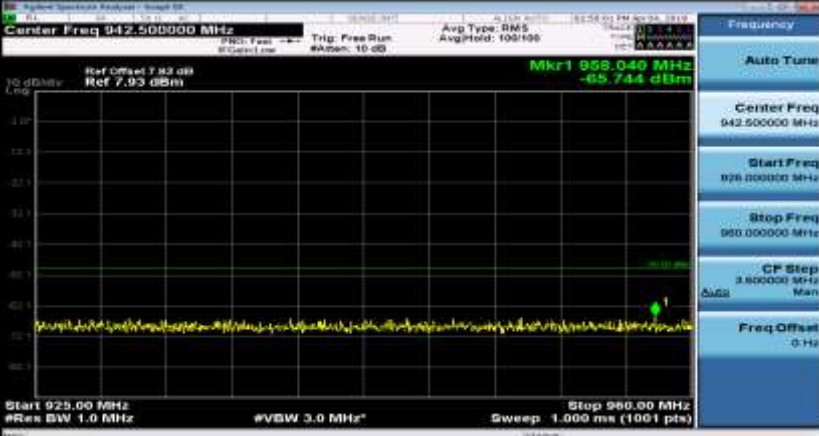
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
General	
General	

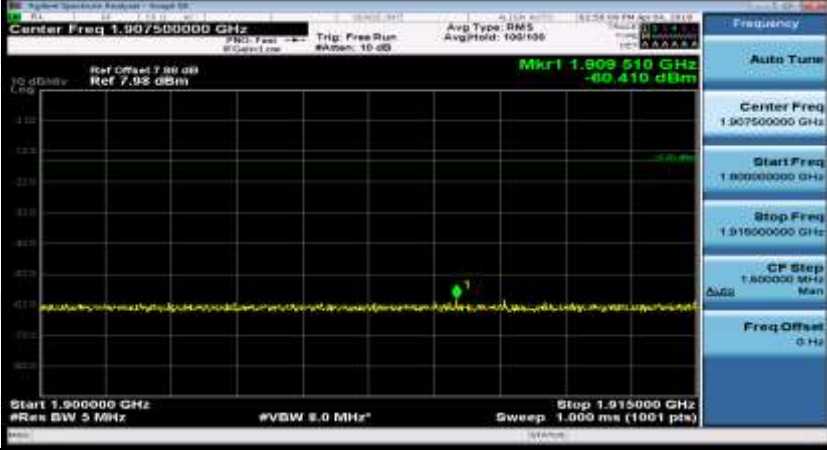

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General			
General			
General			

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General			
Co-existence			
Co-existence			

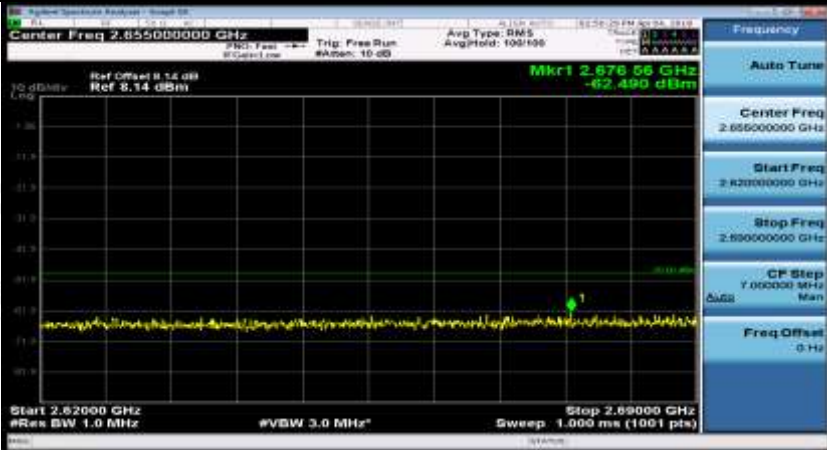
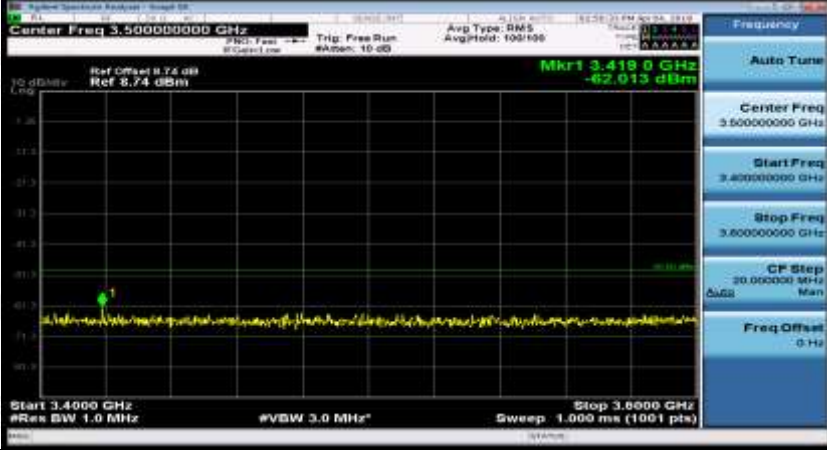

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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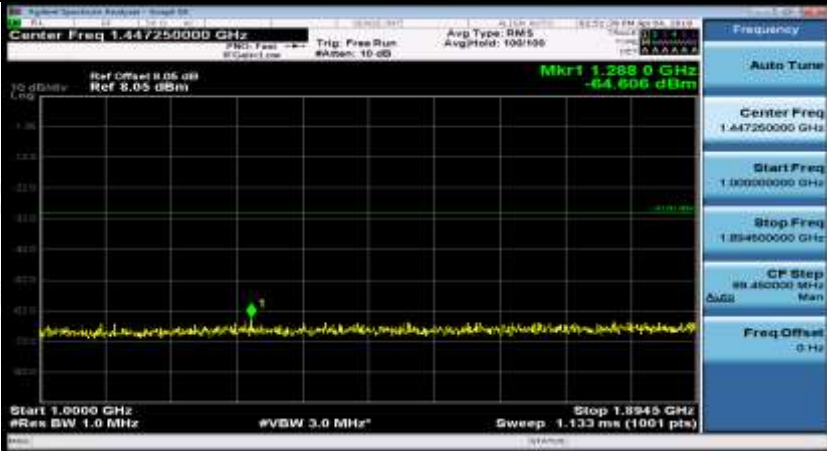


Co-existence	
Co-existence	
Co-existence	
Additional	NA

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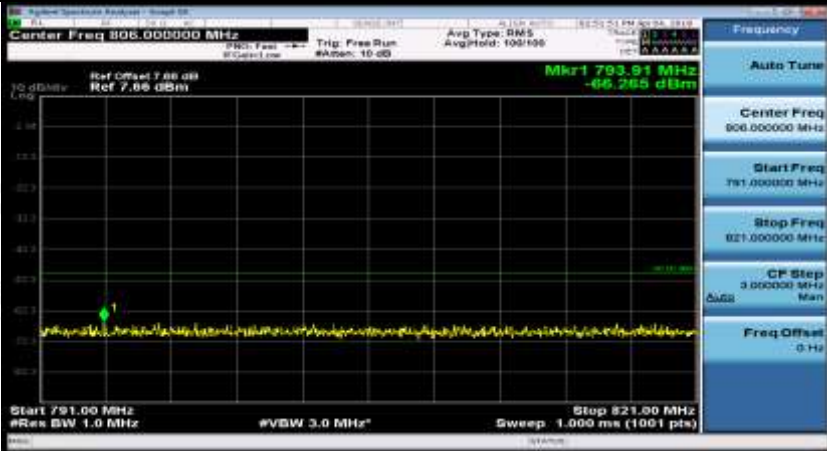
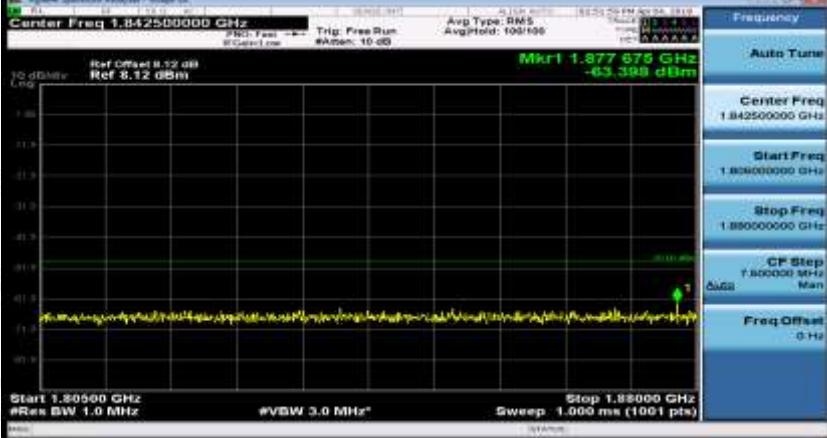
Channel Bandwidth= (20 MHz)

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#0	
General	
General	
General	

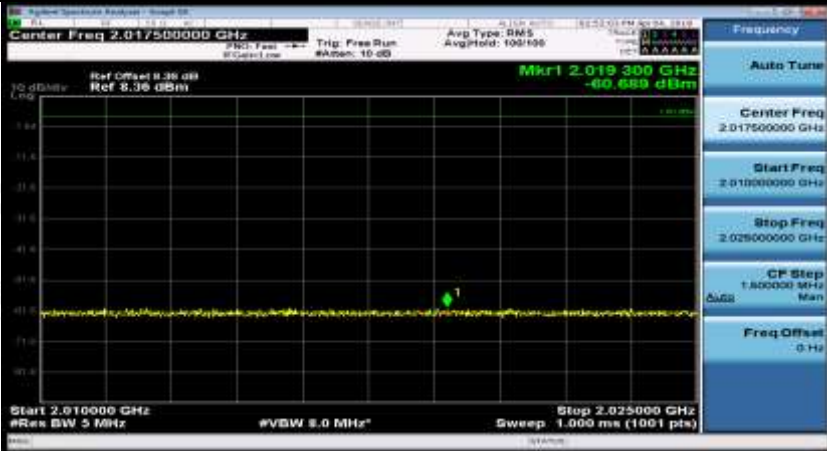
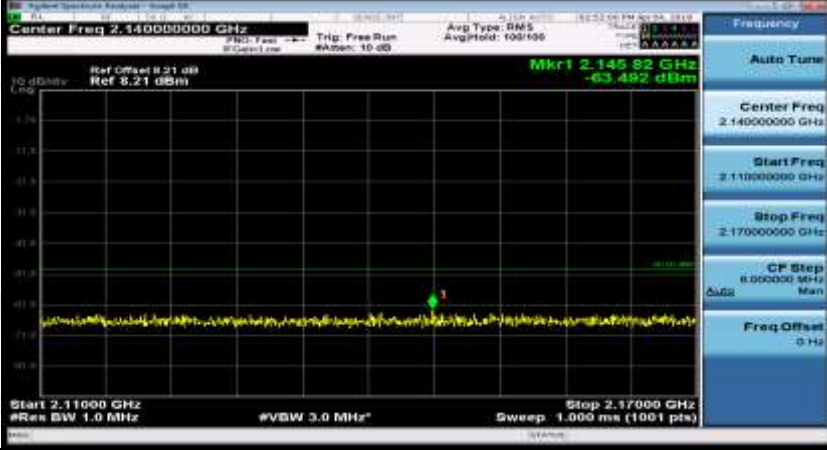
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General	
General	
General	

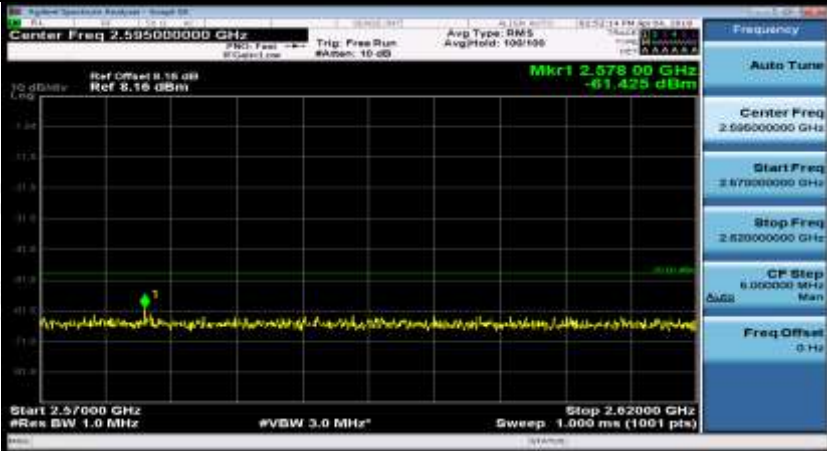
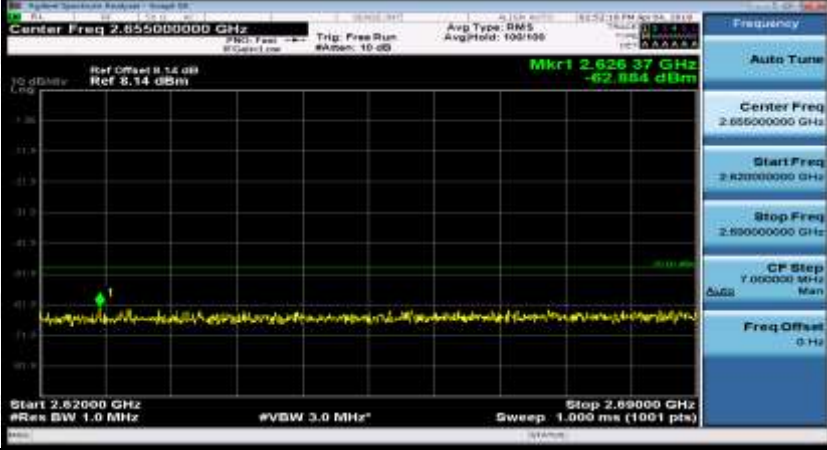
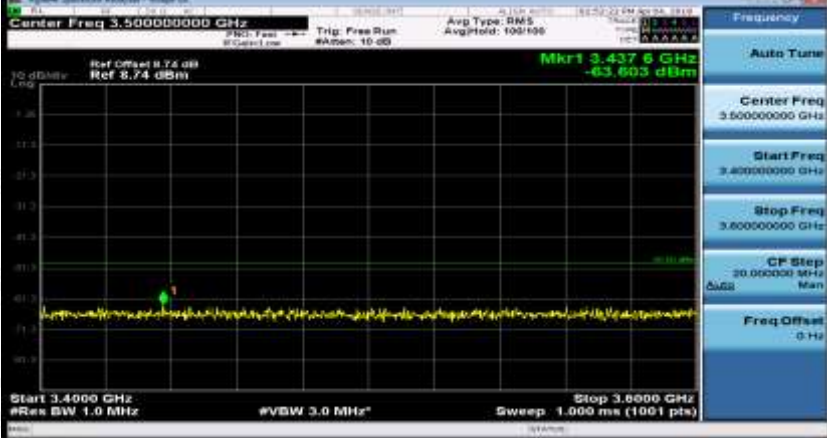
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
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Co-existence	

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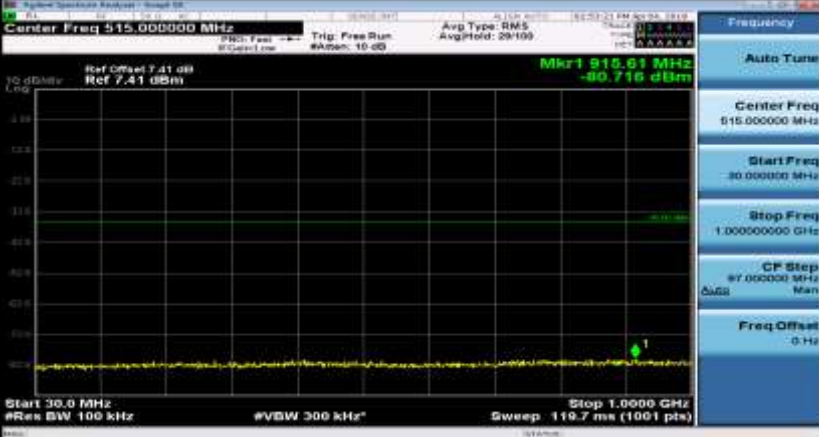
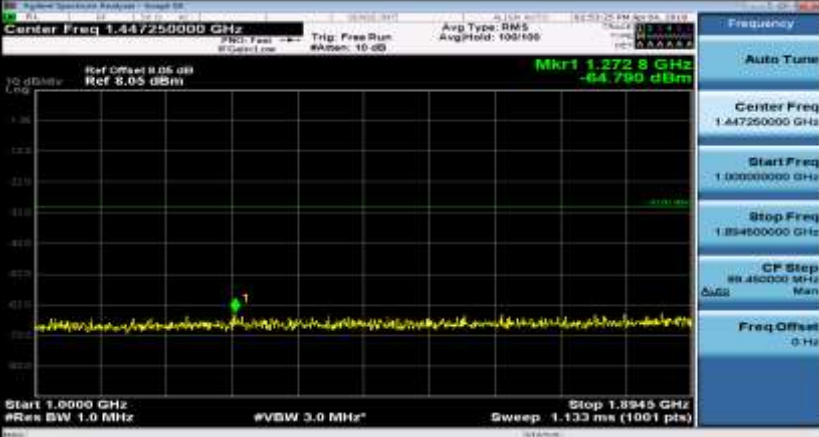

Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#max	
General	
General	

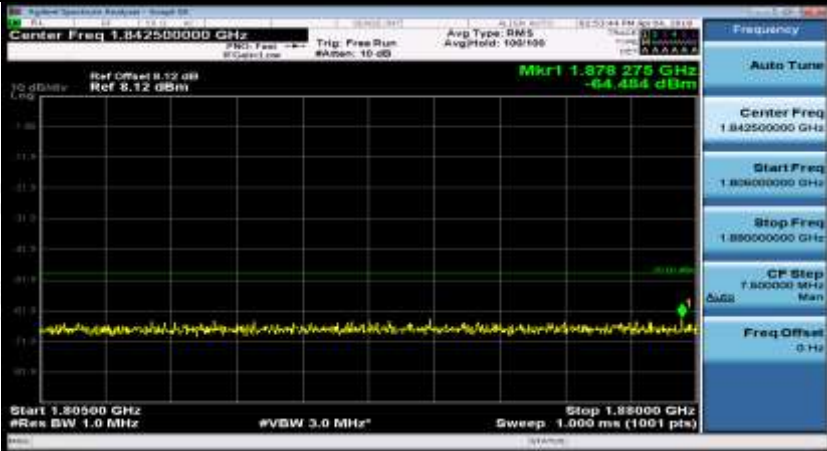
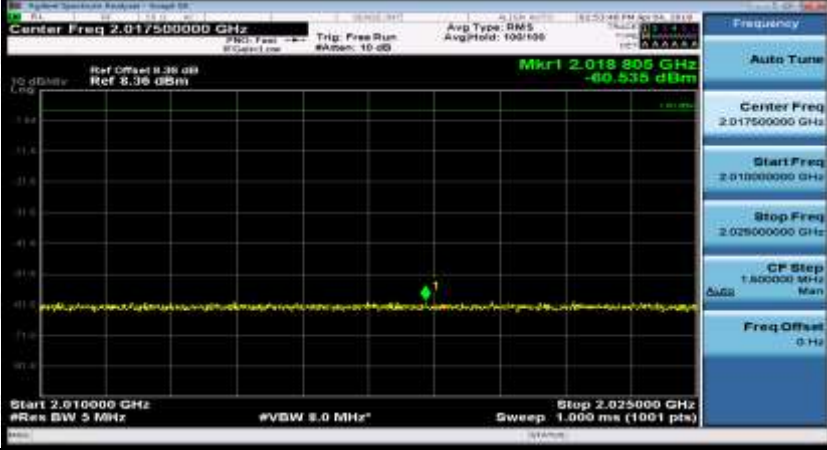
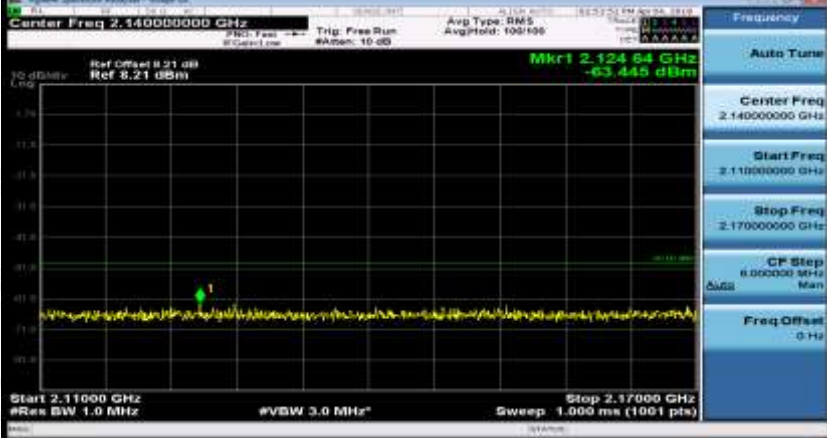
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General			
General			
General			

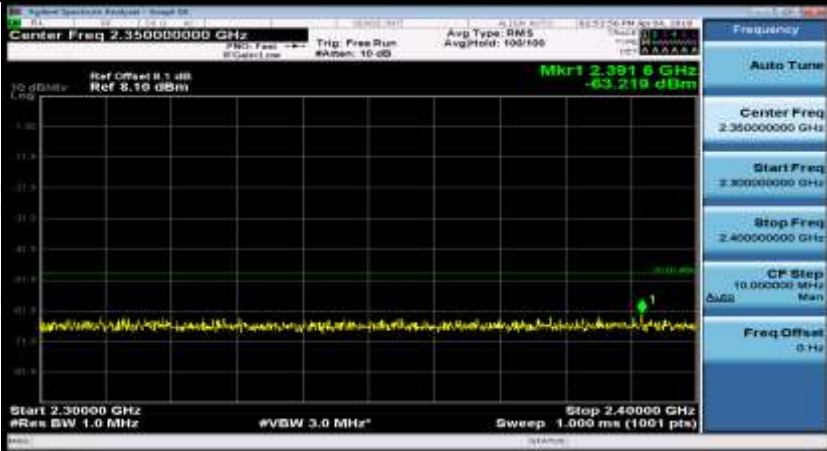
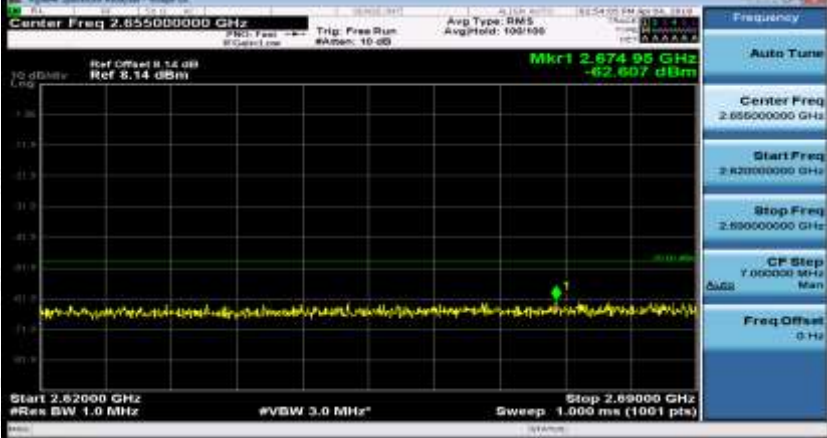
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General			
Co-existence			
Co-existence			

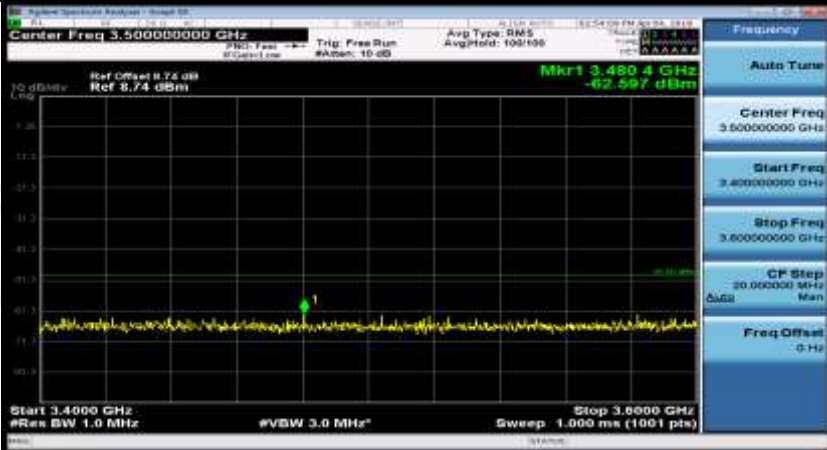

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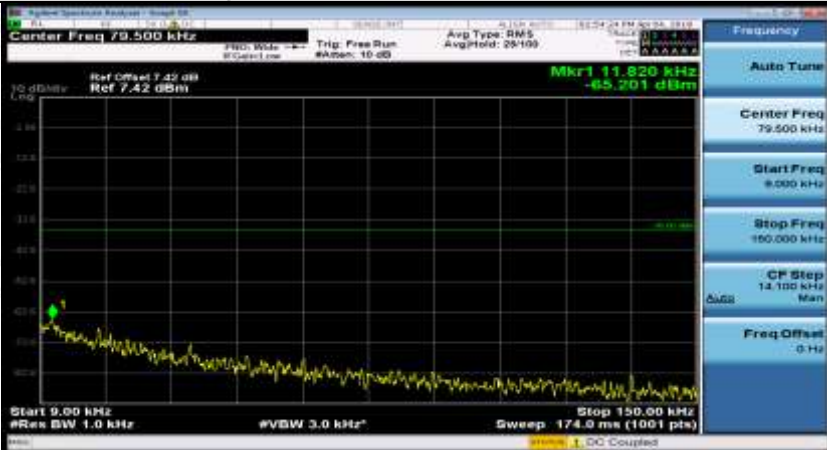
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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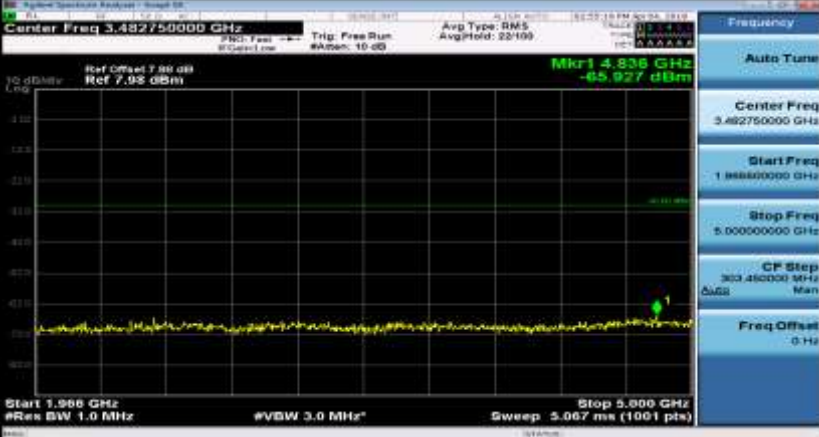

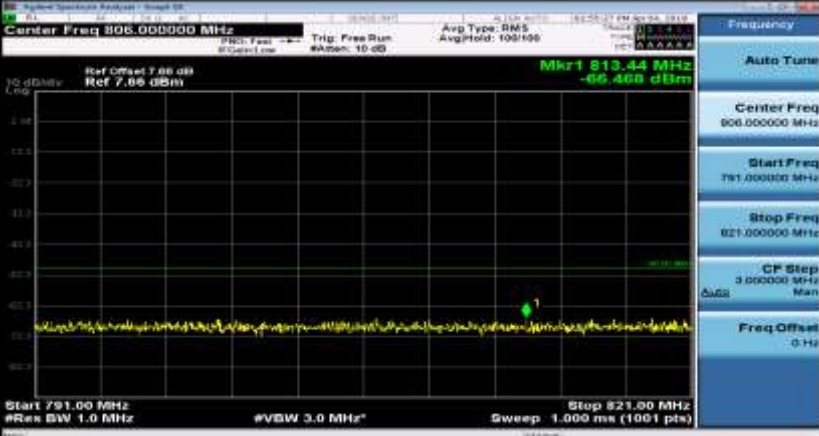
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_FullRB#0	
General	

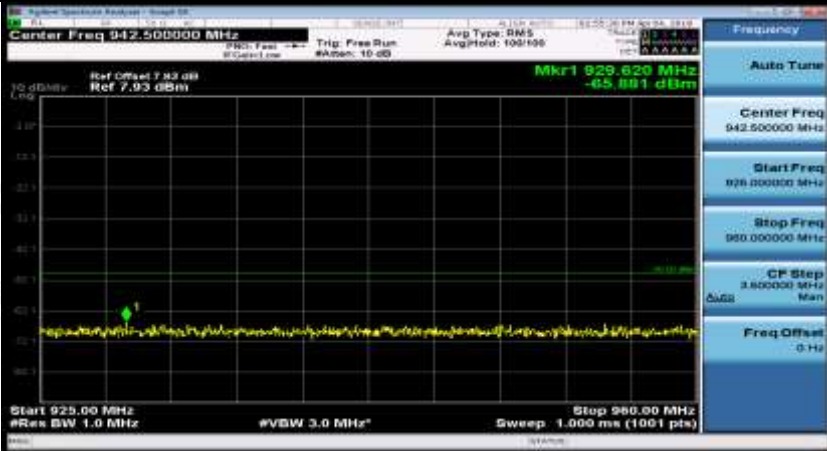
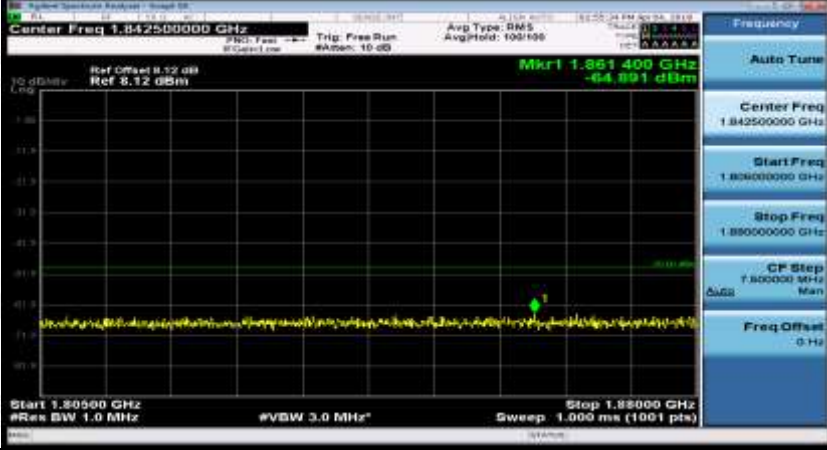
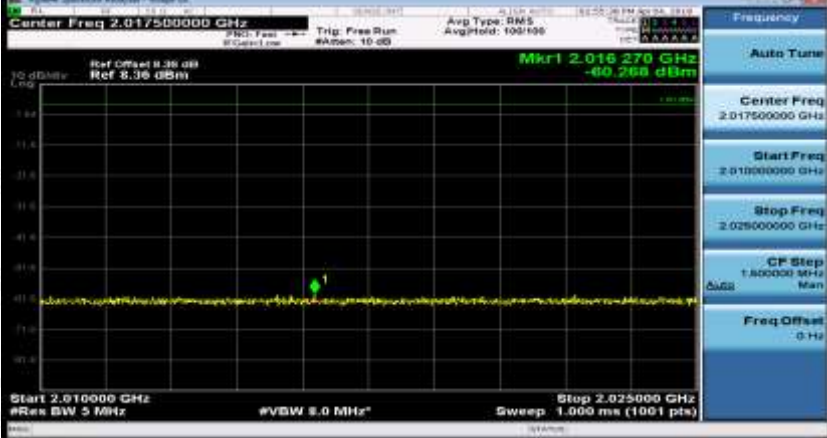
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General			
General			
General			


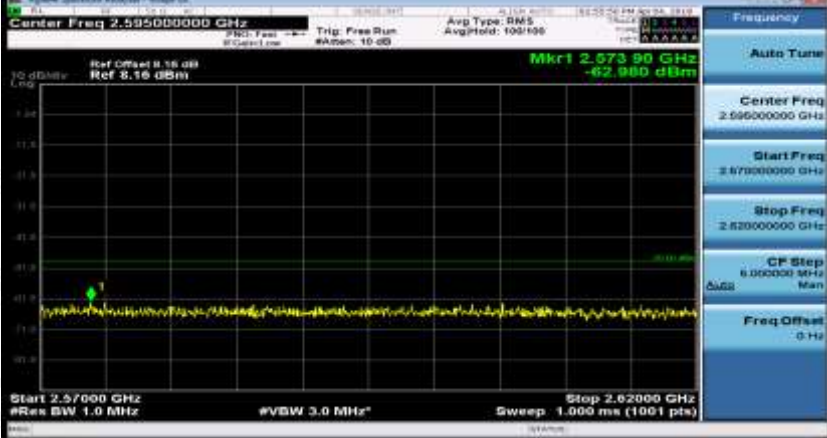
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General			
General			
Co-existence			

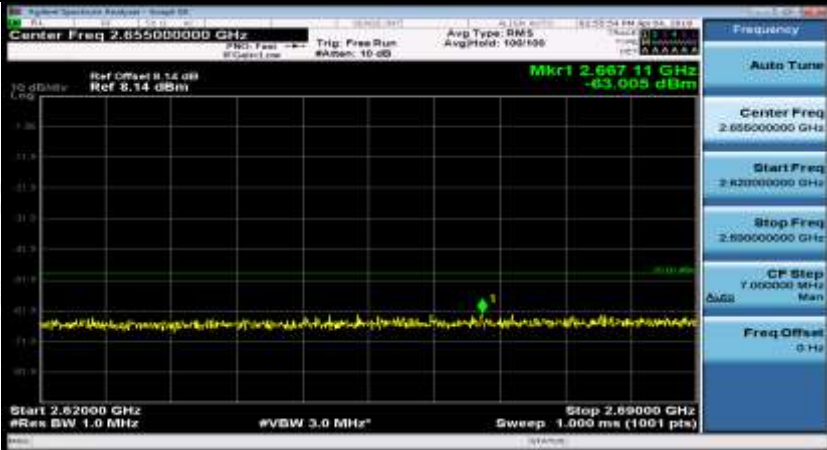
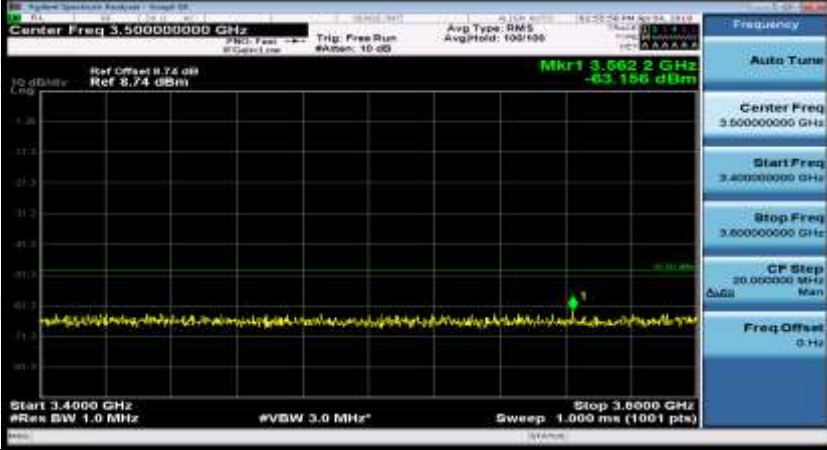

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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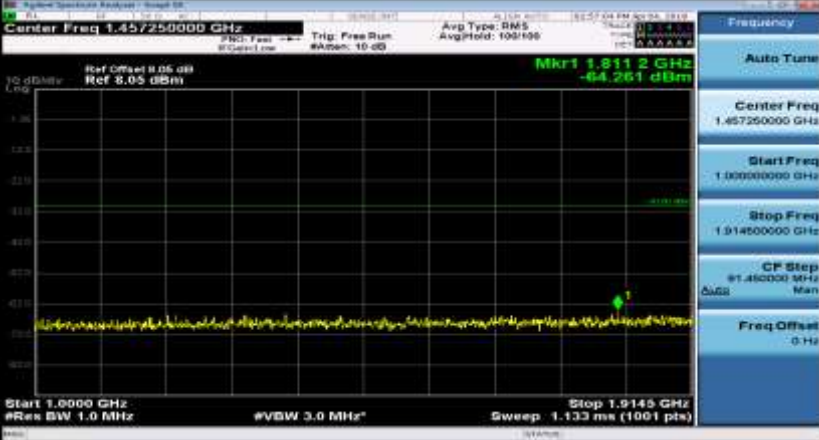
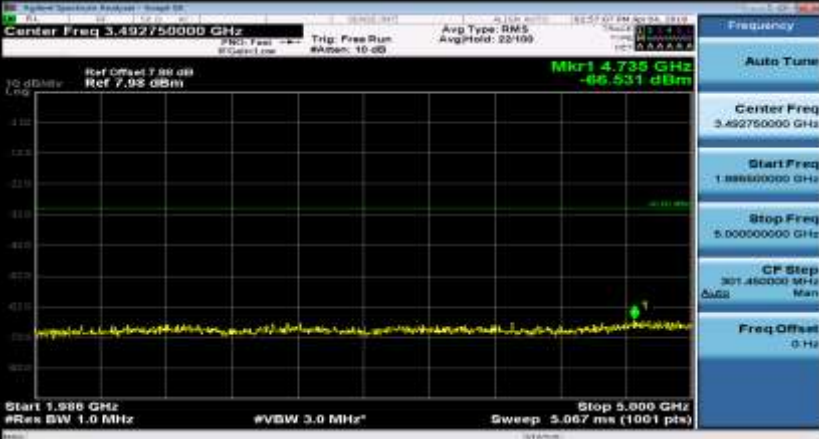
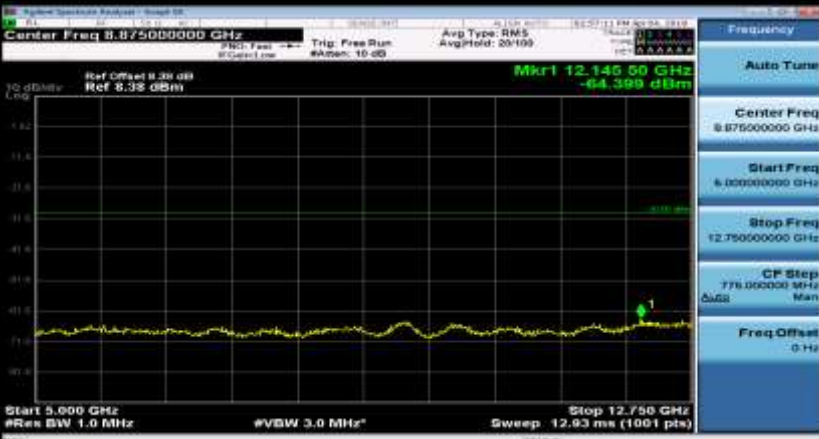
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#0

General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 79.500 kHz</p> <p>Start Freq 9.000 kHz</p> <p>Stop Freq 150.000 kHz</p> <p>CF Step 14.100 kHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 15.075000 MHz</p> <p>Start Freq 150.000 kHz</p> <p>Stop Freq 30.000000 MHz</p> <p>CF Step 3.986000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.00000000 GHz</p> <p>CF Step 87.000000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>

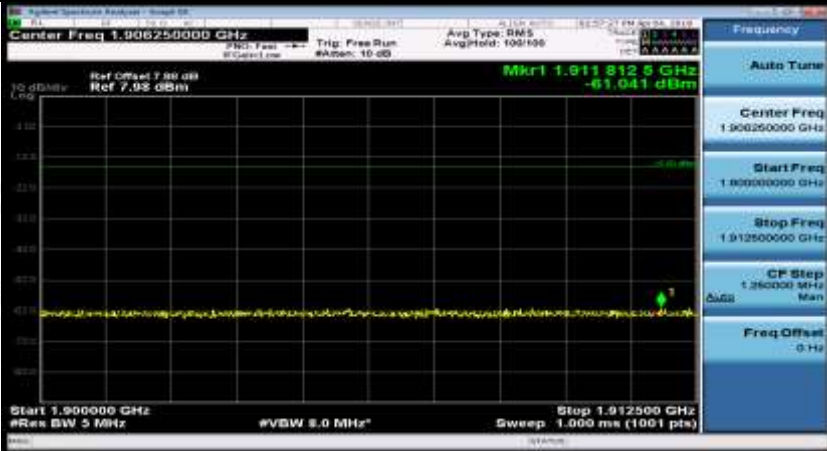
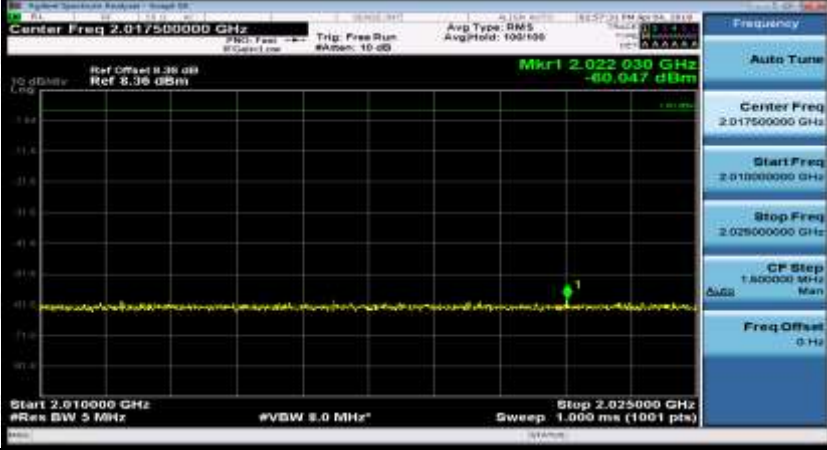
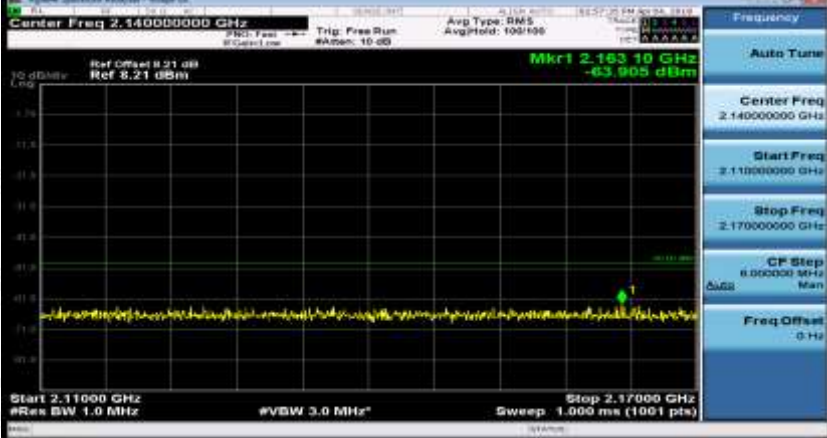
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General			
General			
General			


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Co-existence	
Co-existence	
Co-existence	



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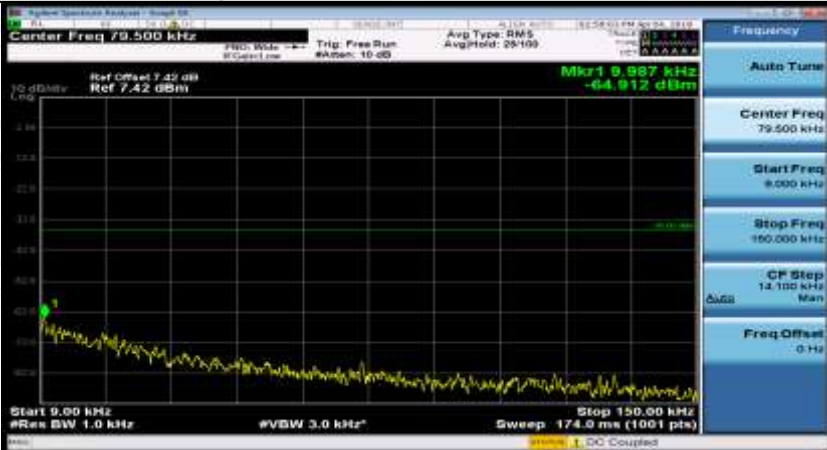
Co-existence	
Co-existence	
Co-existence	

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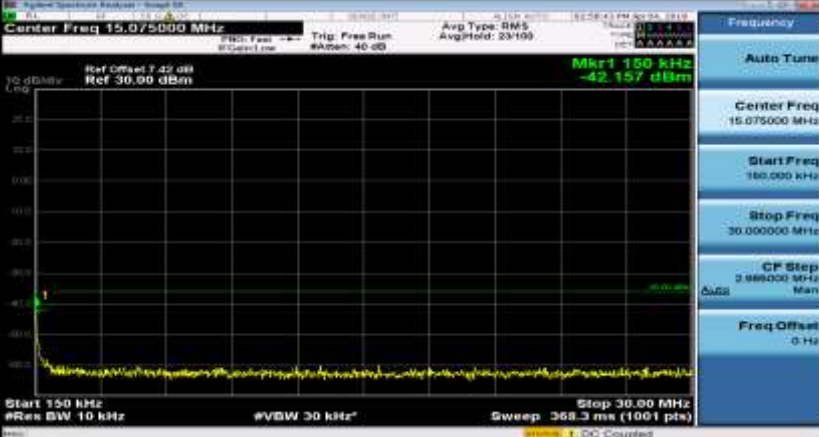
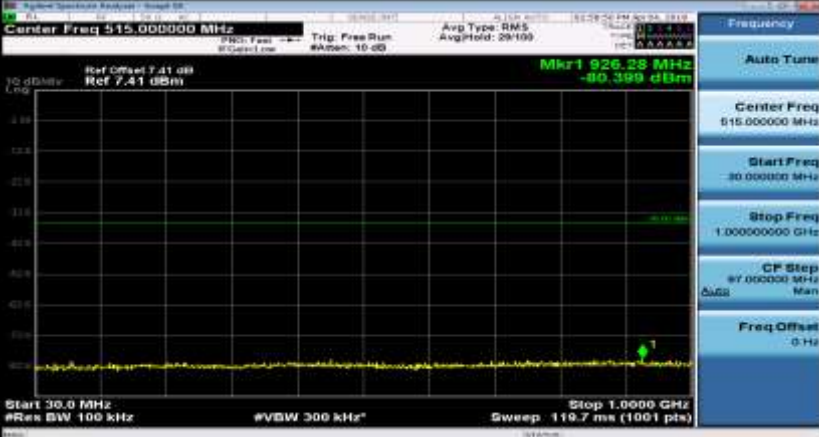
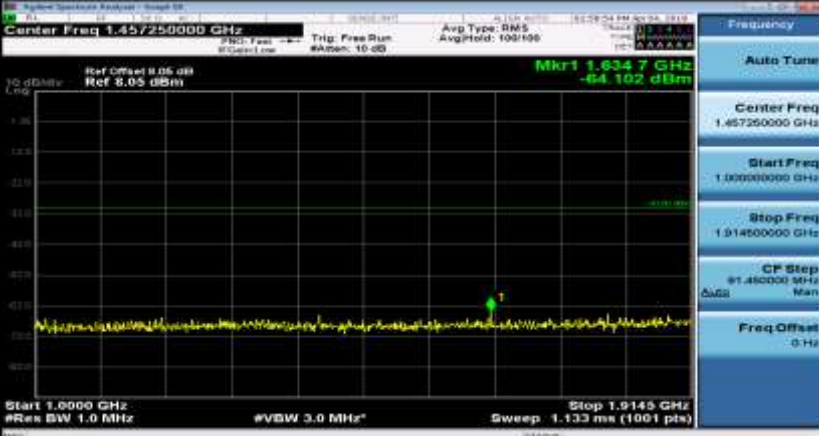
Co-existence	
Co-existence	
Co-existence	

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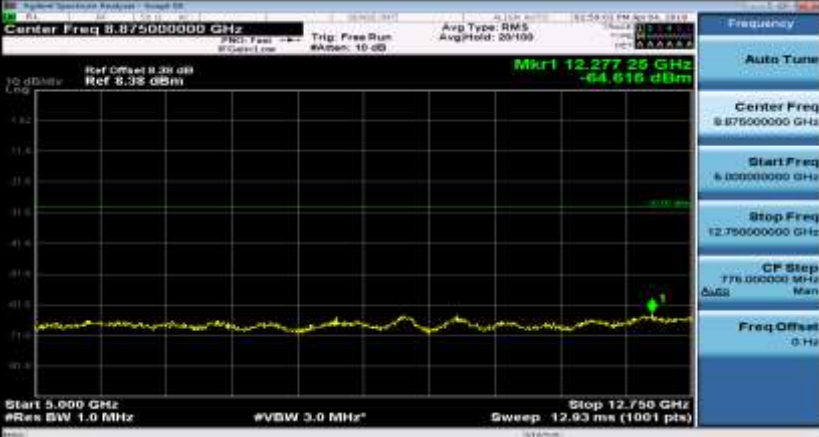
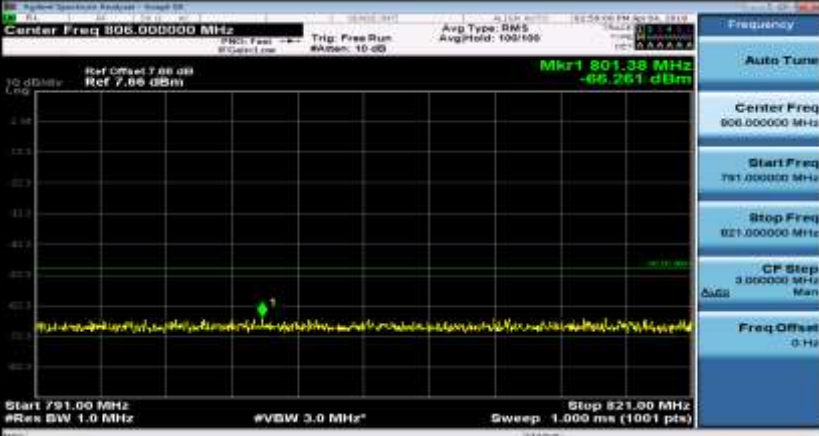
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#max	
General	

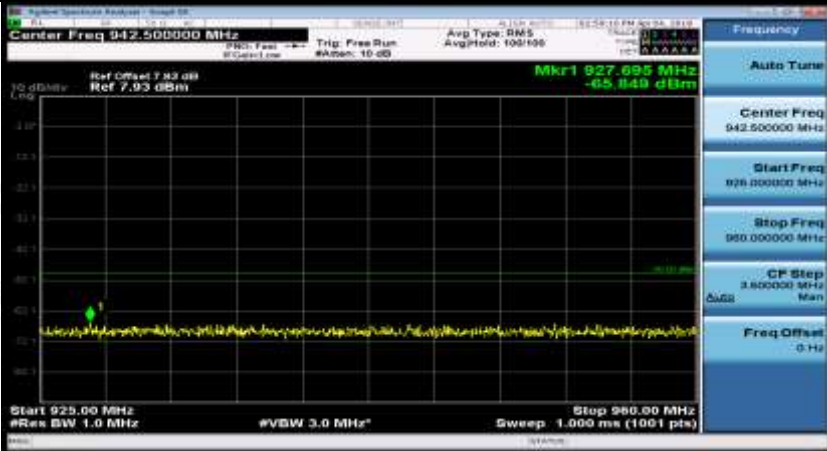
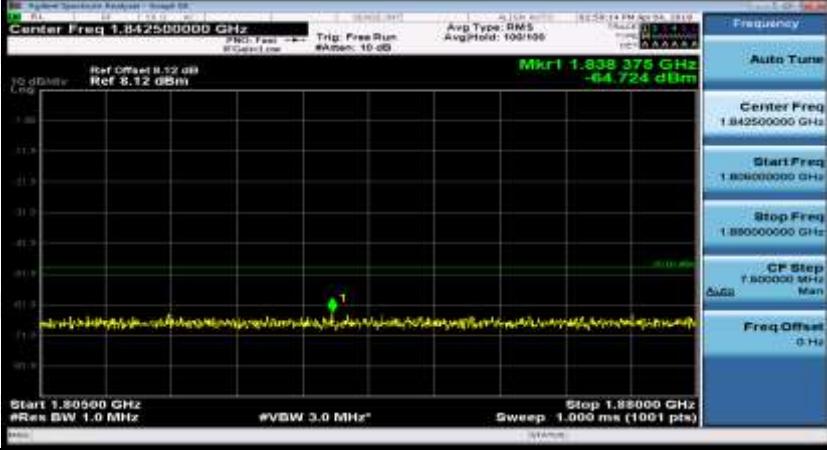
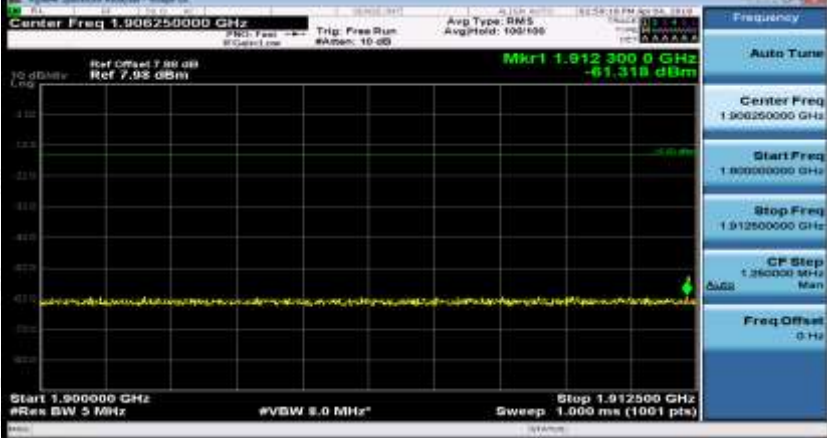
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General			
General			
General			

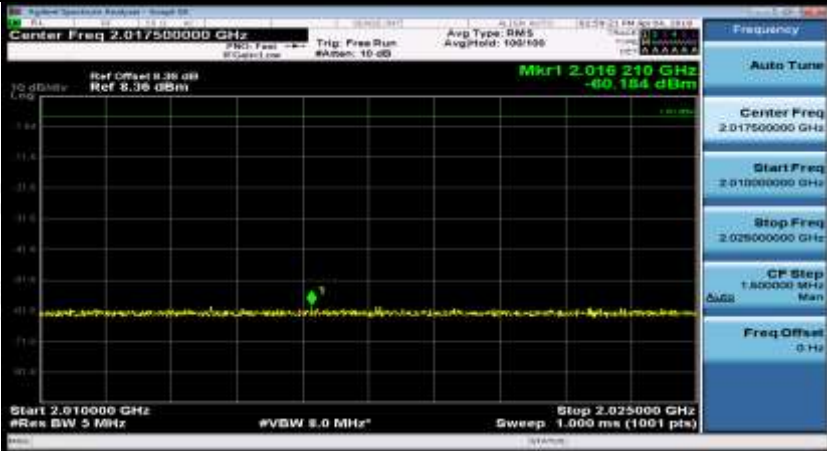
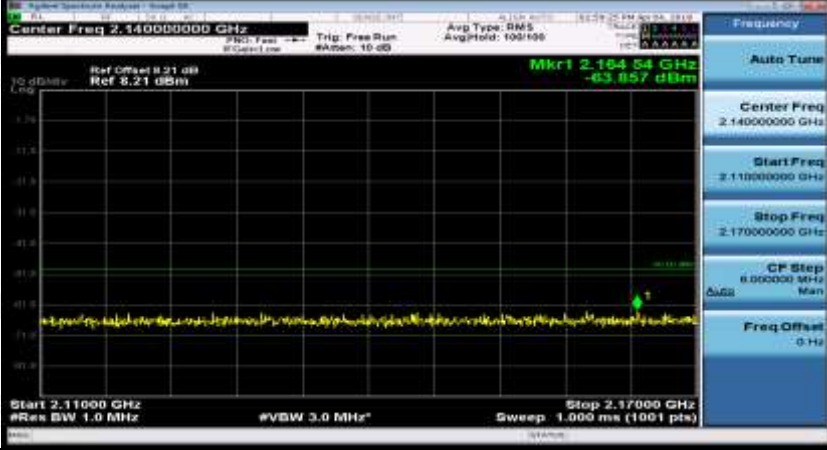
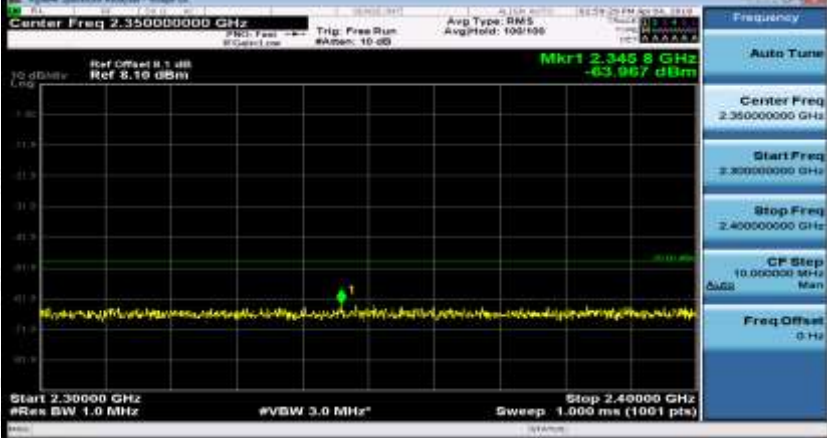
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General			
General			
Co-existence			

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_FullRB#0	
General	
General	

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General		
General		
General		

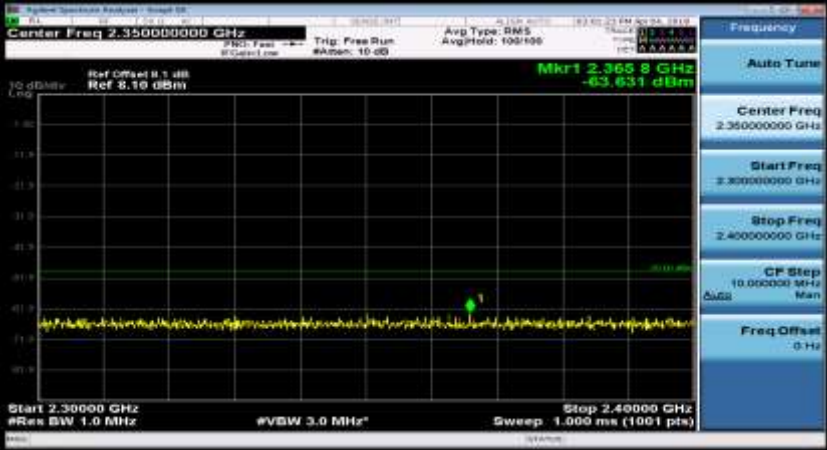
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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 8.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 778.000000 MHz</p> <p>ΔfGS Man</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 806.000000 MHz</p> <p>Start Freq 791.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>ΔfGS Man</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 942.500000 MHz</p> <p>Start Freq 926.000000 MHz</p> <p>Stop Freq 960.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>ΔfGS Man</p> <p>Freq Offset 0 Hz</p>

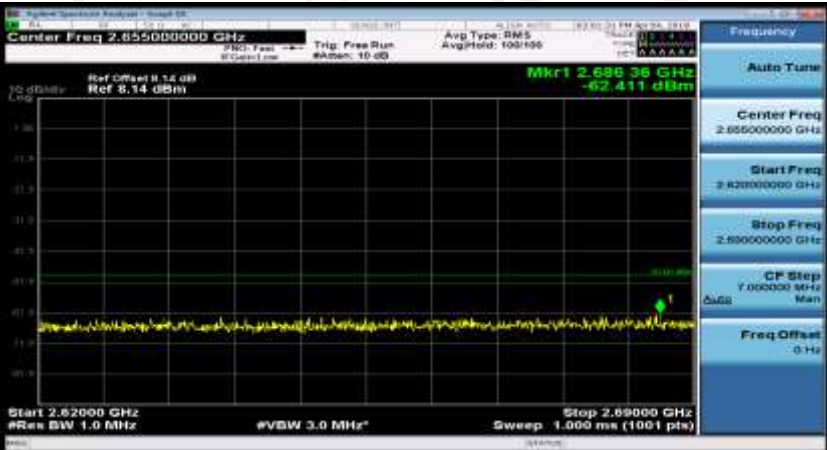
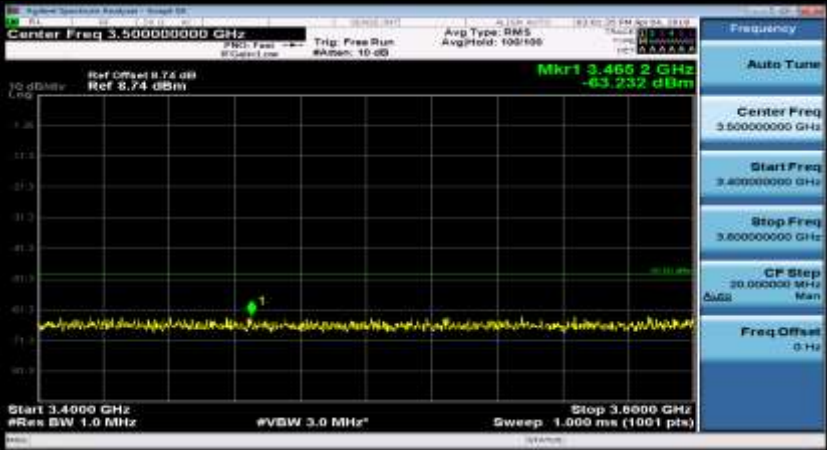
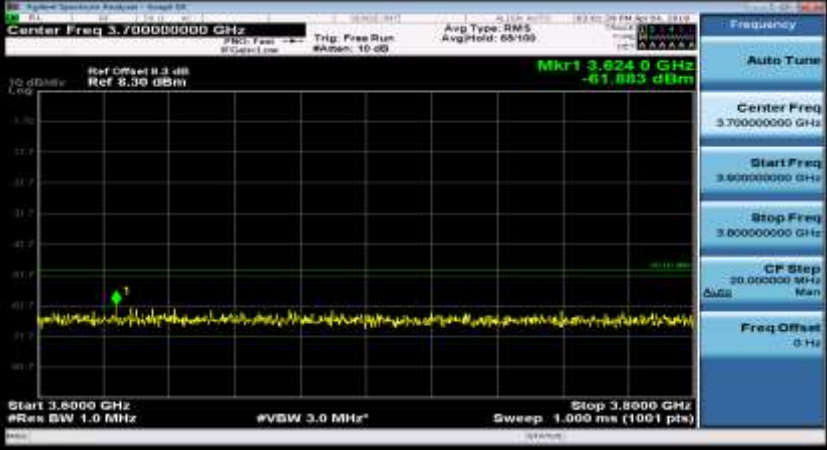
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Co-existence	
Co-existence	
Co-existence	

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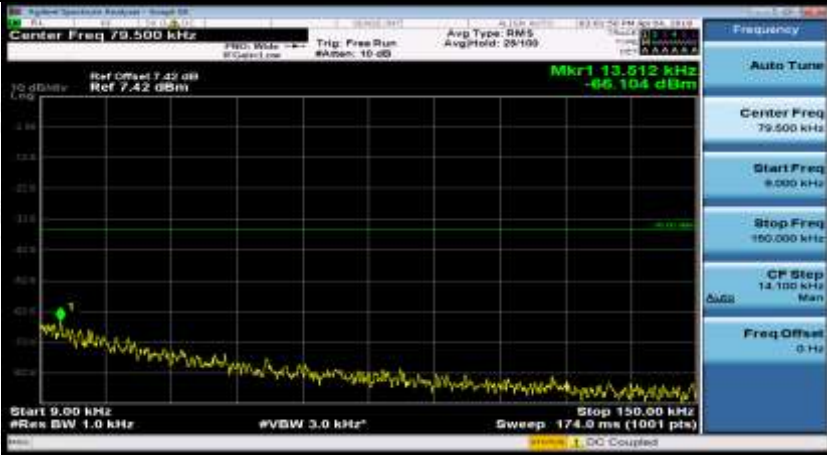

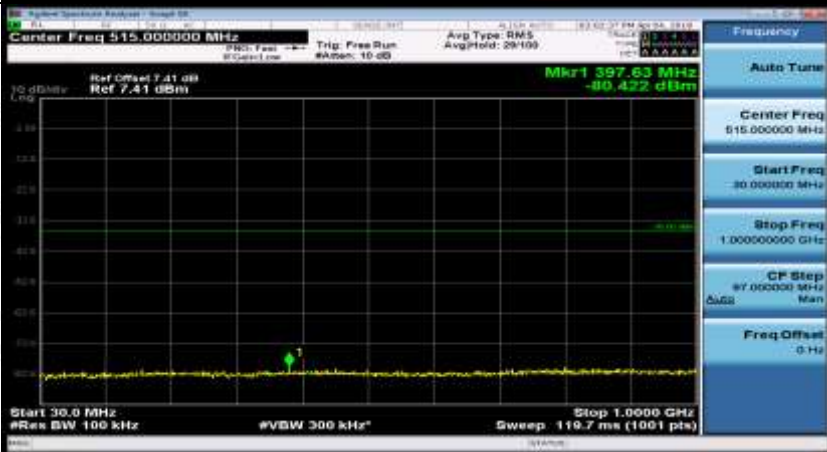
Co-existence	
Co-existence	
Co-existence	

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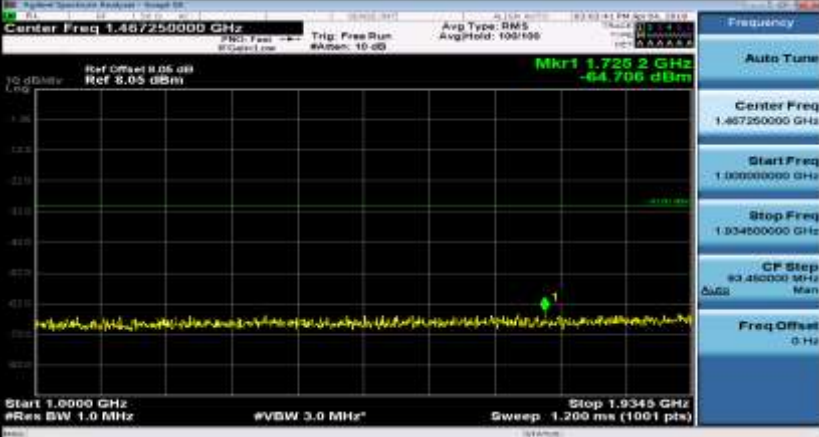


Co-existence	
Co-existence	
Co-existence	
Additional	NA

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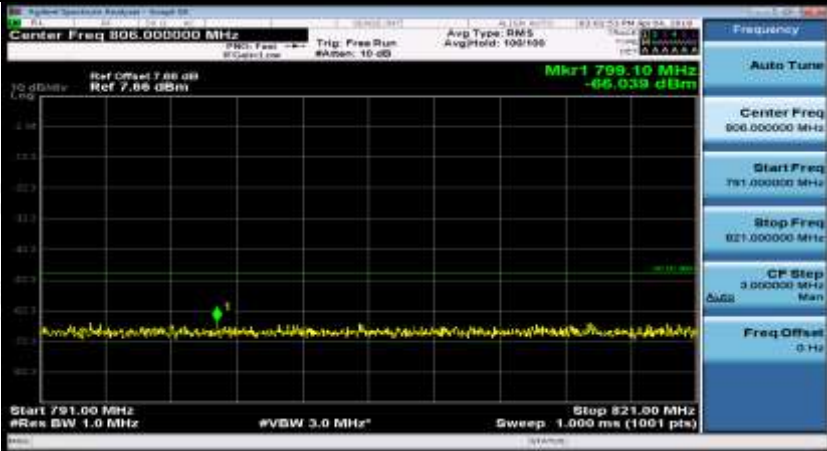
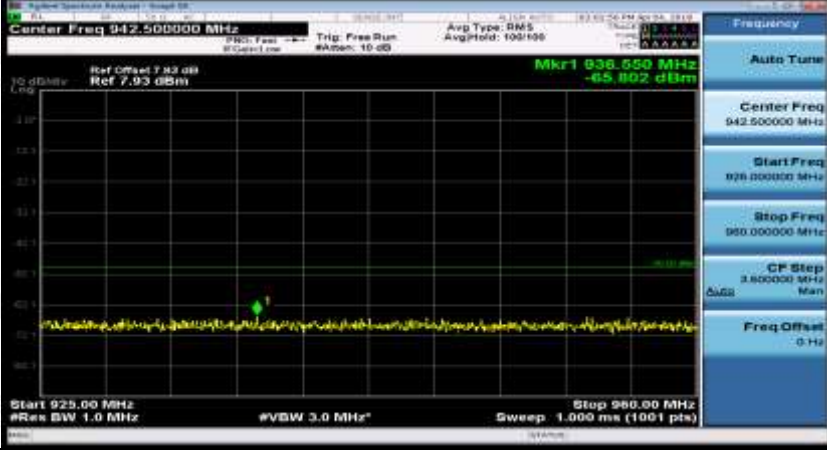
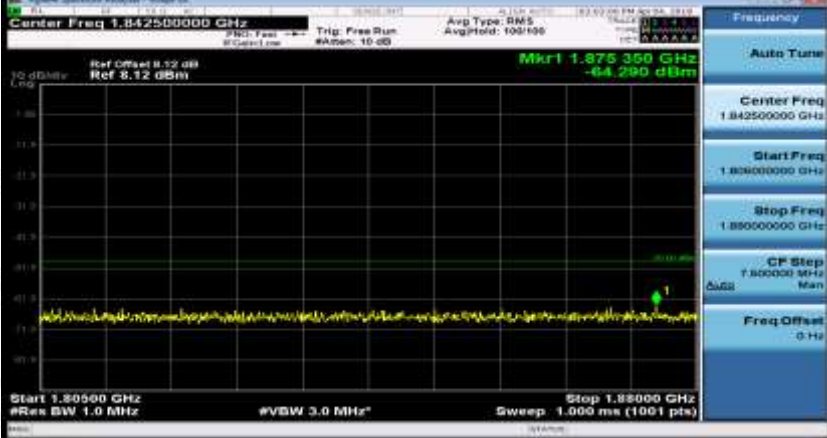
Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#0

General	
General	
General	

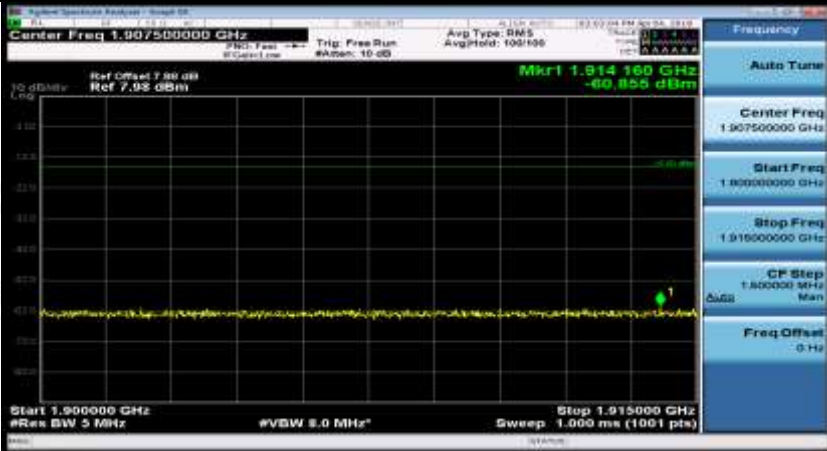
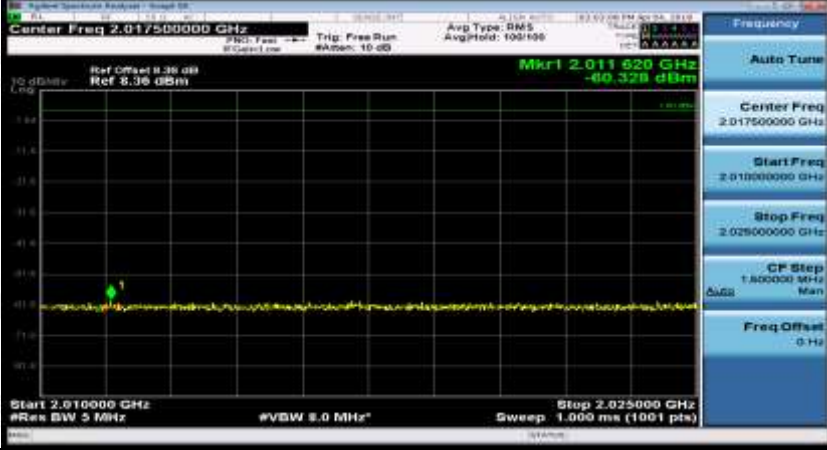
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General			
General			
General			

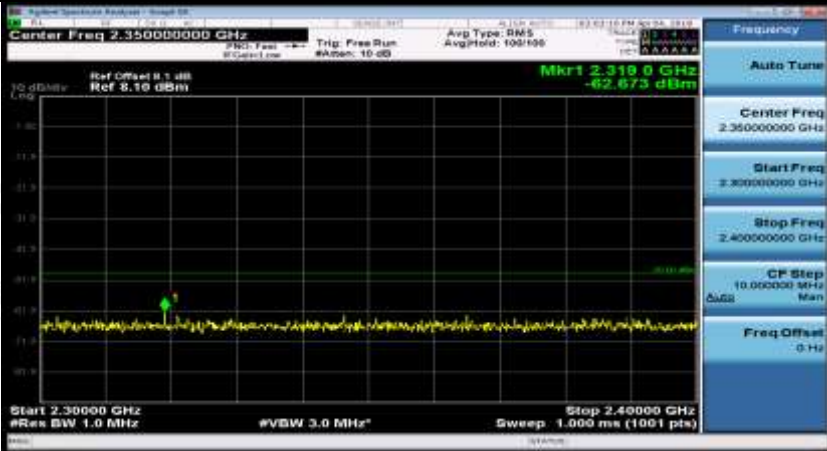
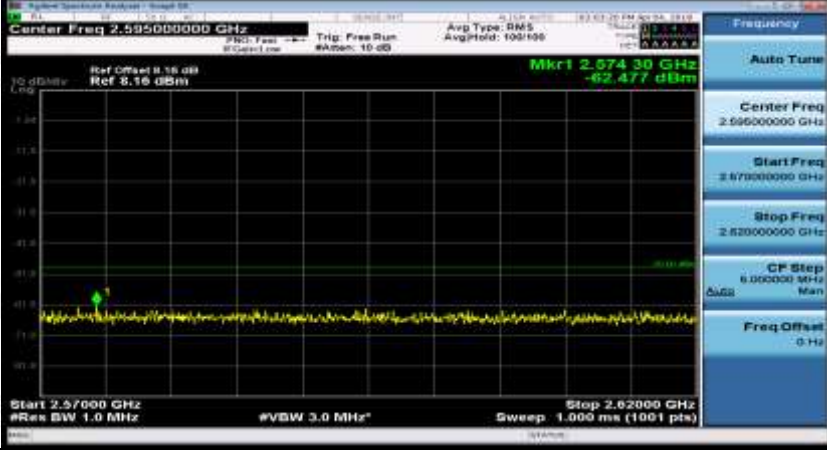

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Co-existence	
Co-existence	
Co-existence	

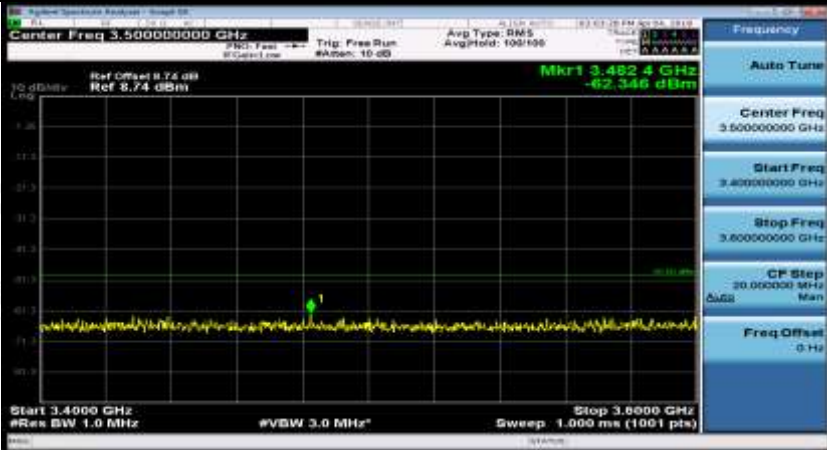
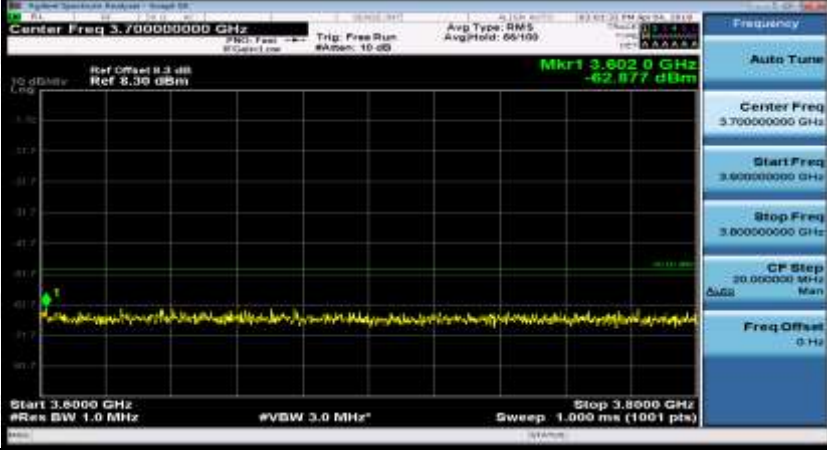
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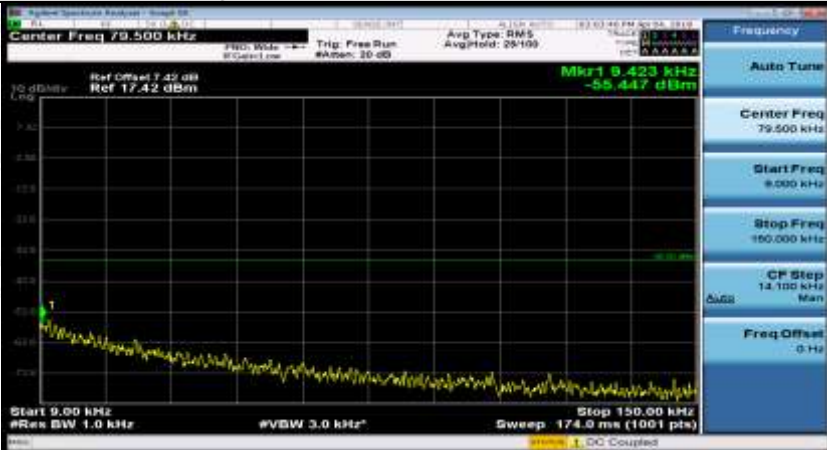
Co-existence	
Co-existence	
Co-existence	

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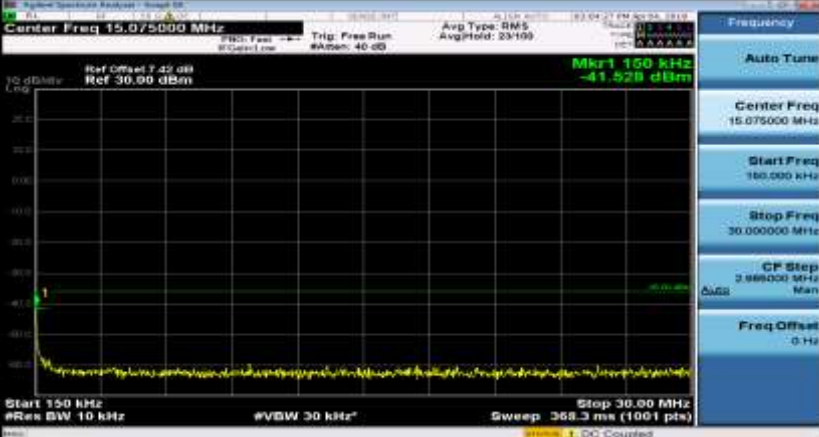
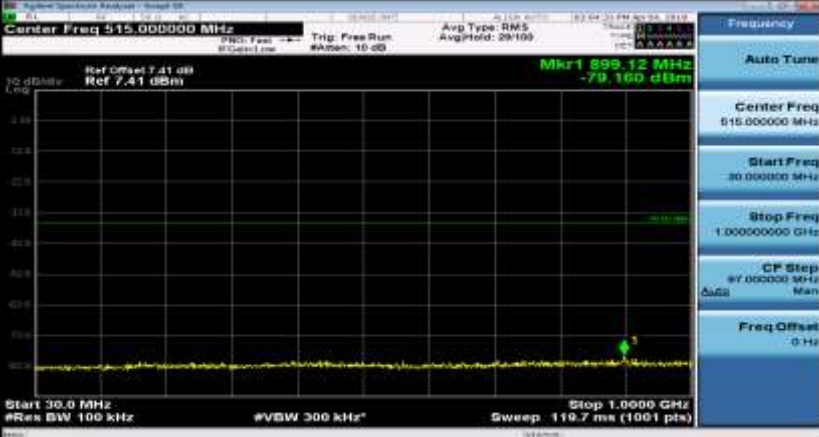
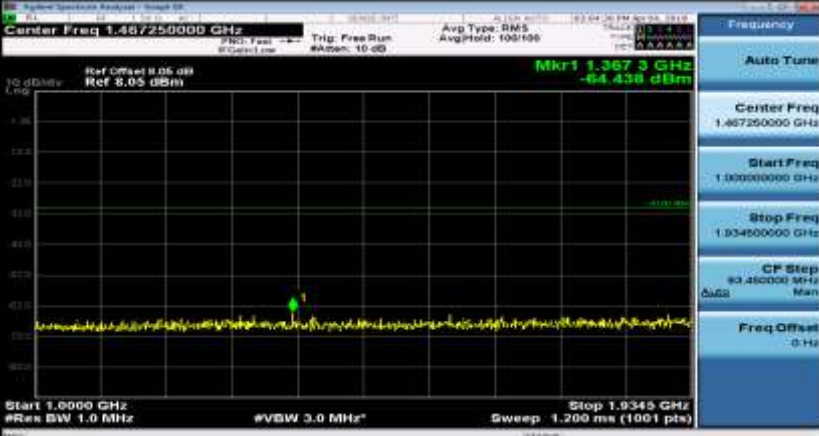
Co-existence	
Co-existence	
Co-existence	

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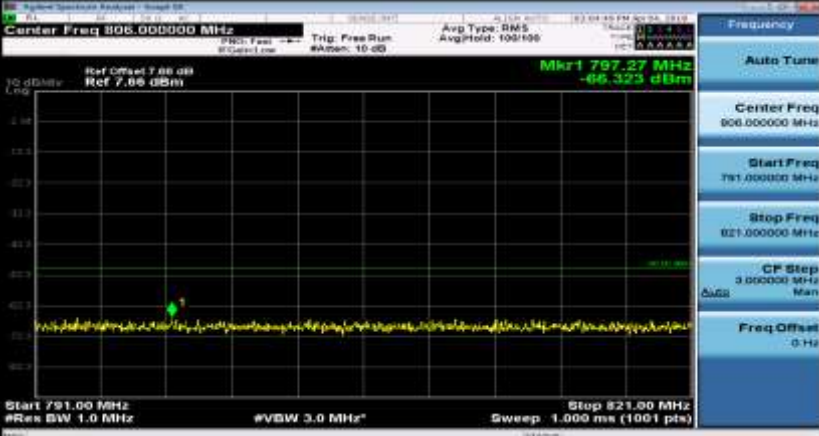
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#max	
General	

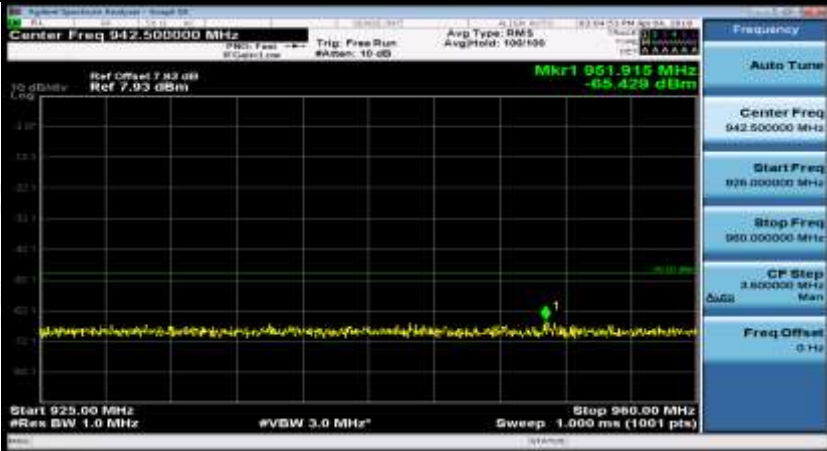
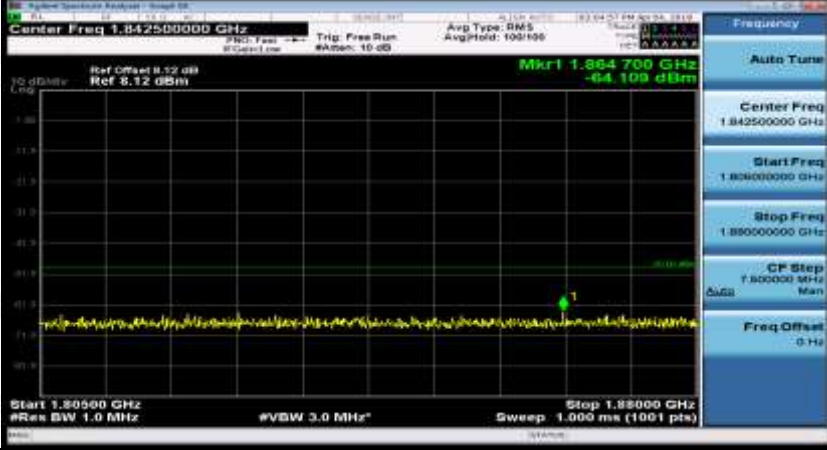
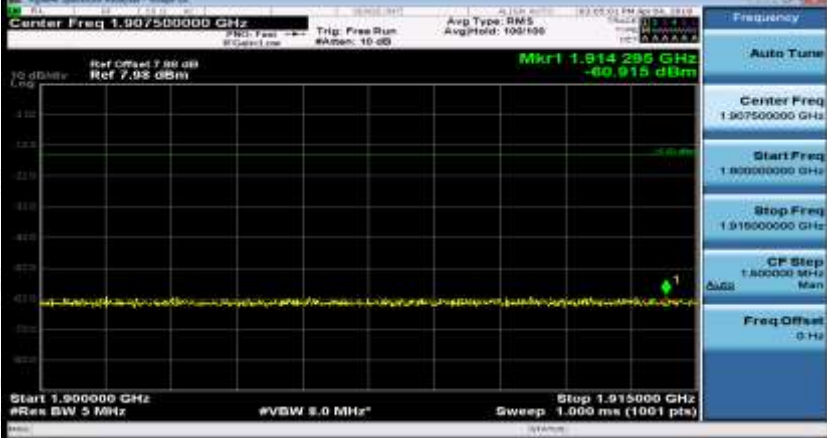
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General			
General			
General			

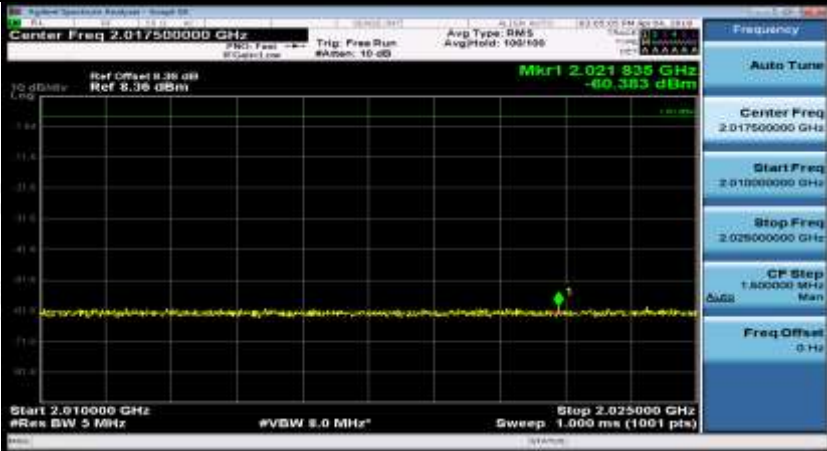

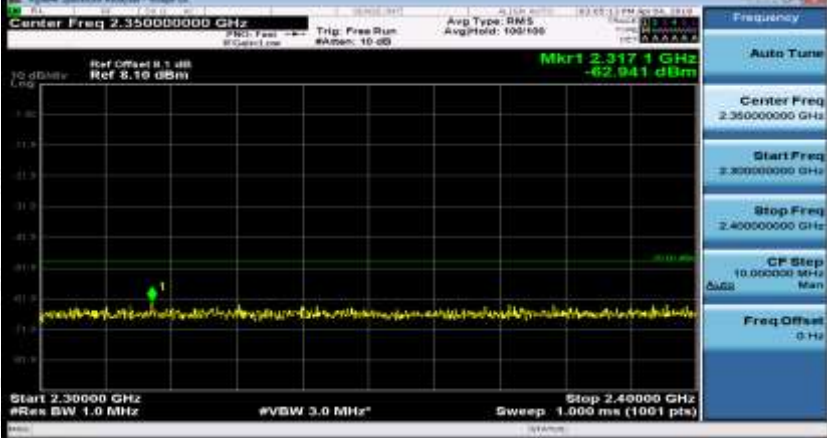
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General			
General			
Co-existence			

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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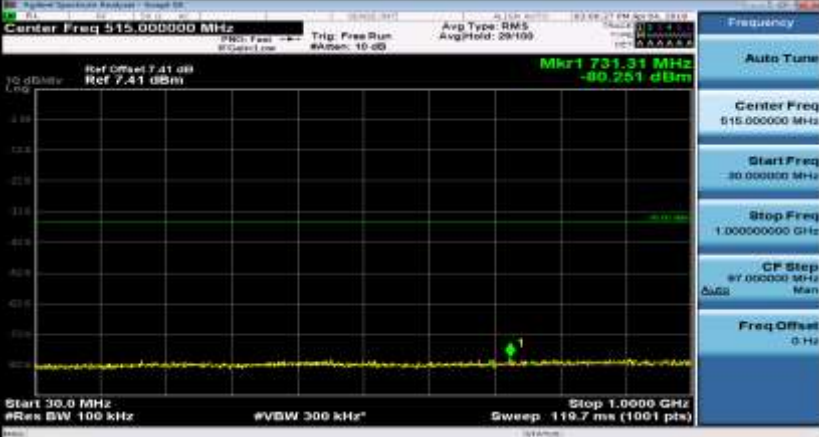
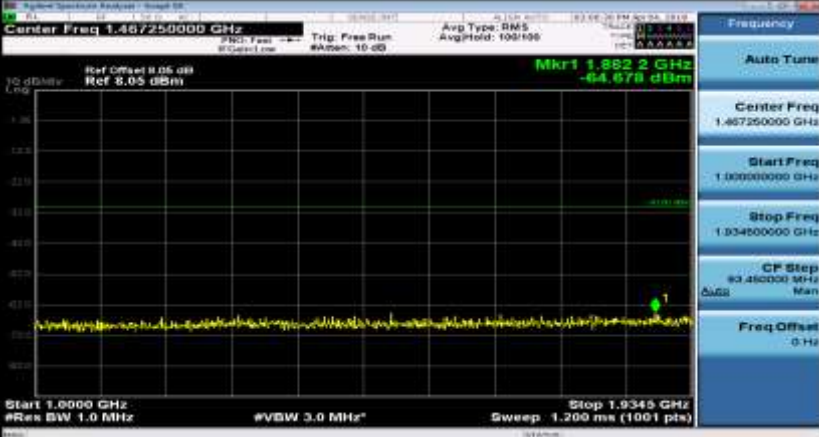
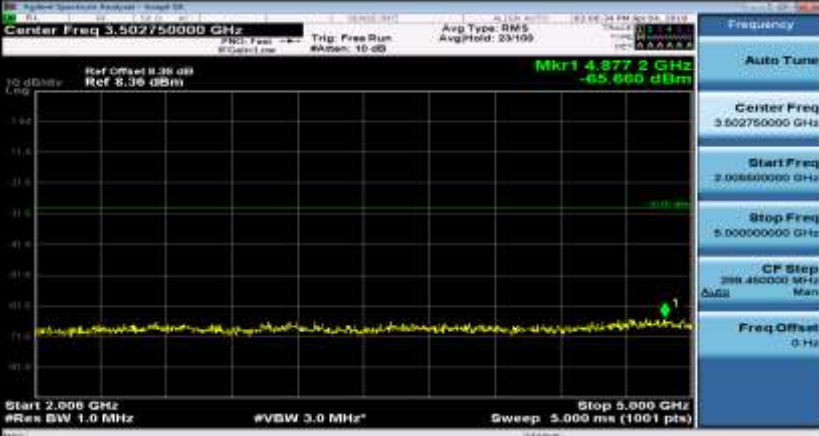
Co-existence	
Co-existence	
Co-existence	

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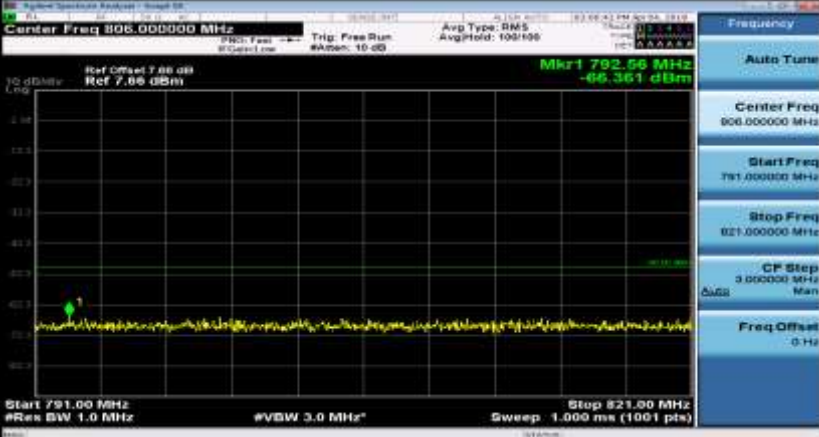
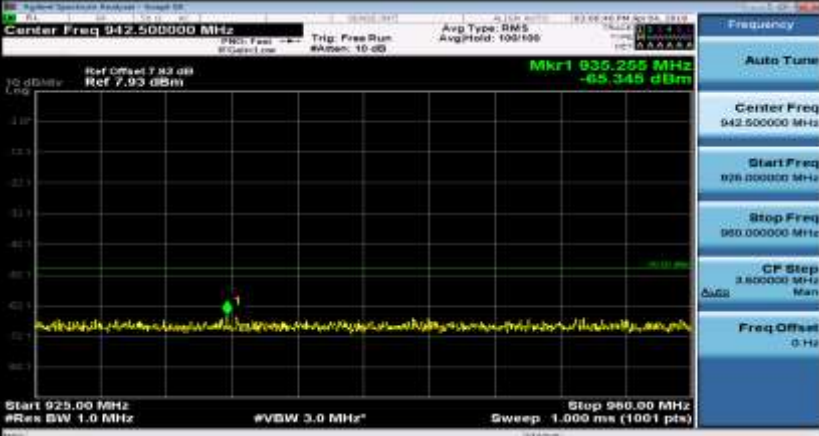
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_FullIRB#0	
General	
General	

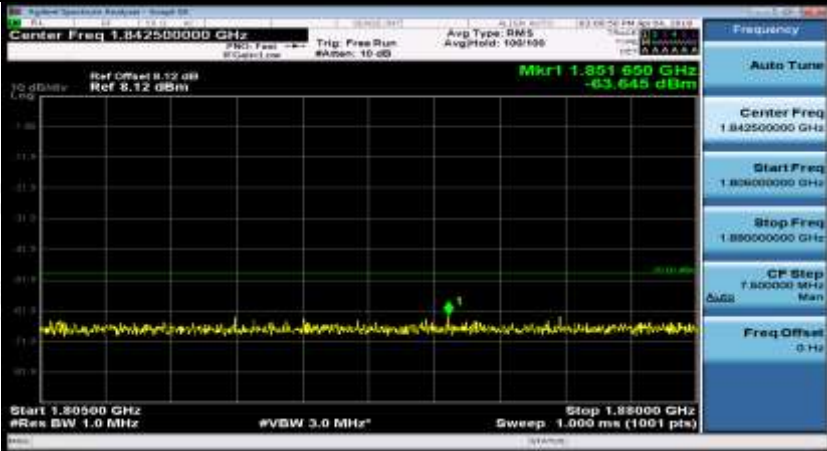
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General			
General			
General			

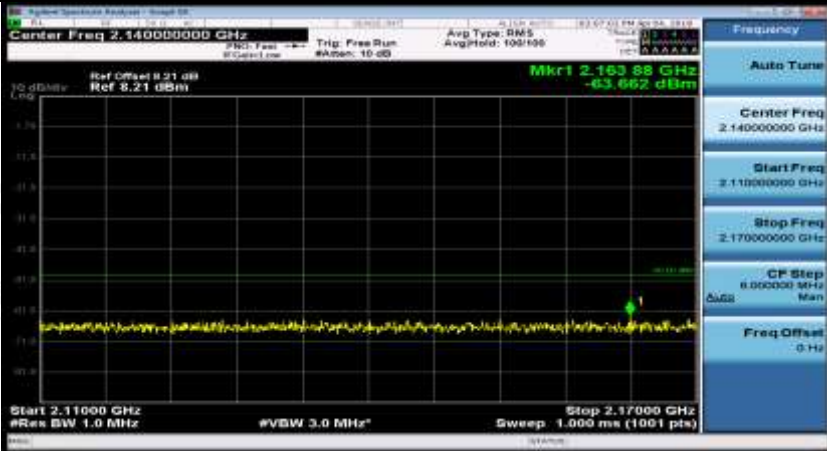


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General			
Co-existence			
Co-existence			

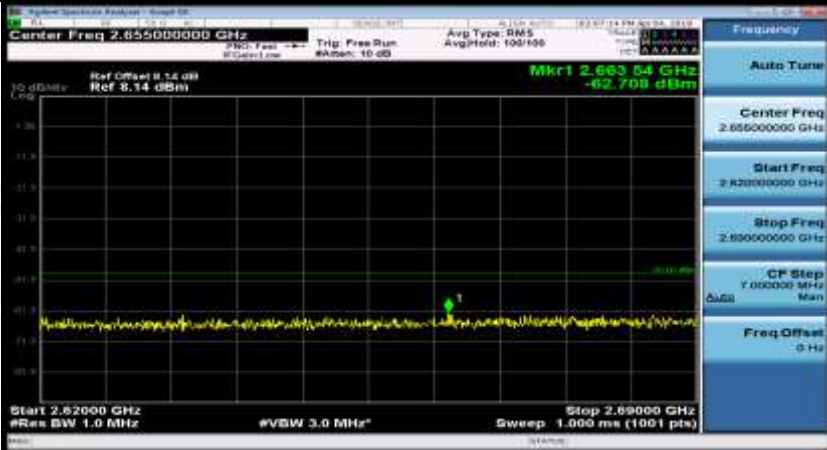
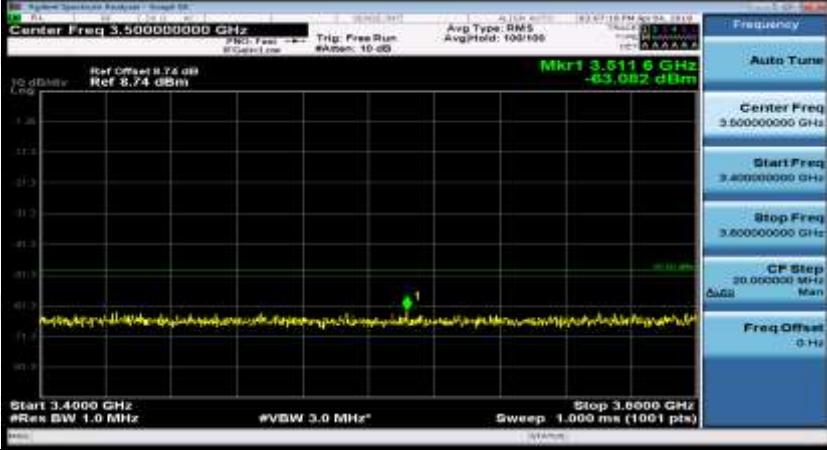

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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6. Receiver Spurious Emissions

Test Result

NTNV

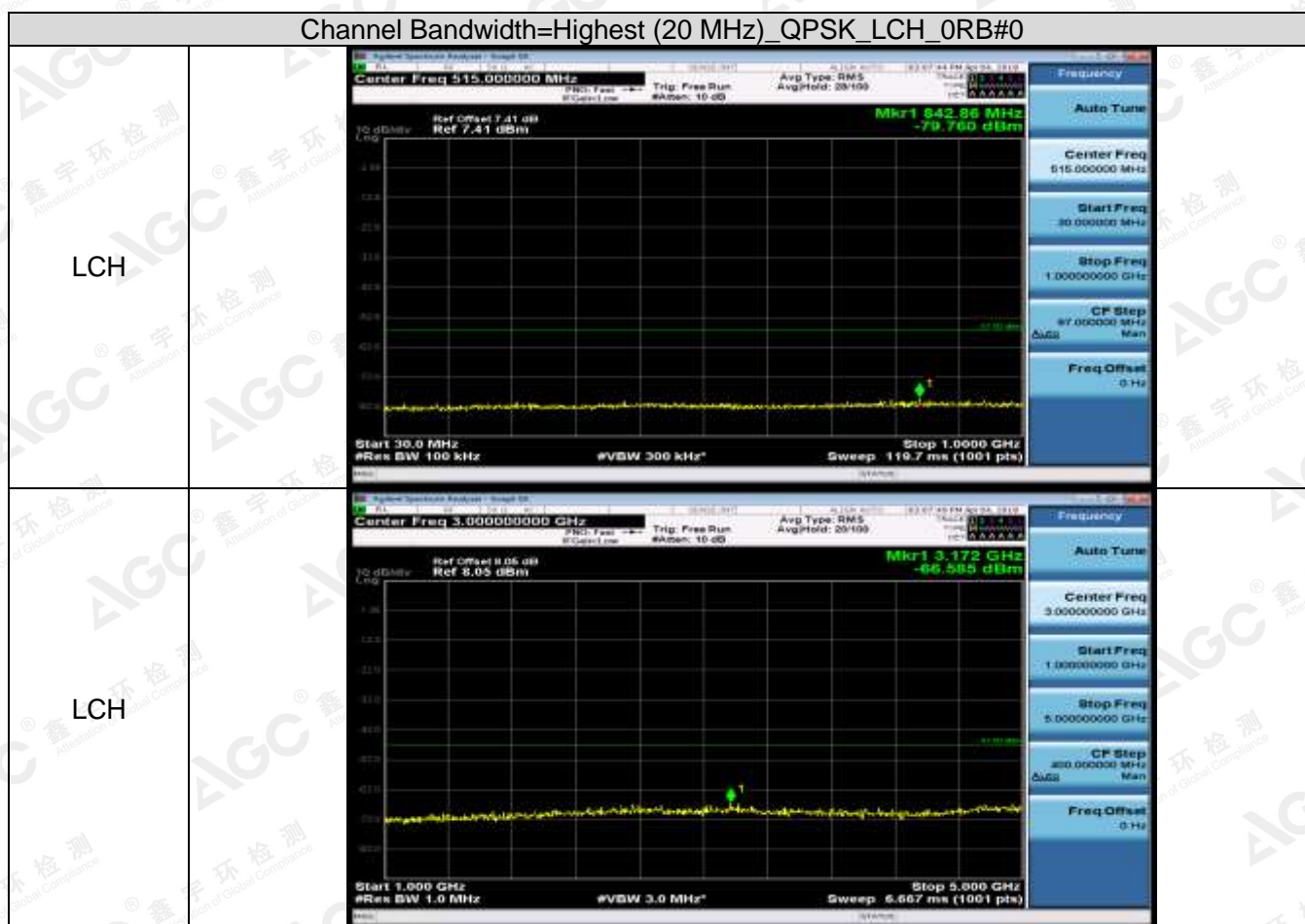
Channel Bandwidth=Highest

Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	20 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

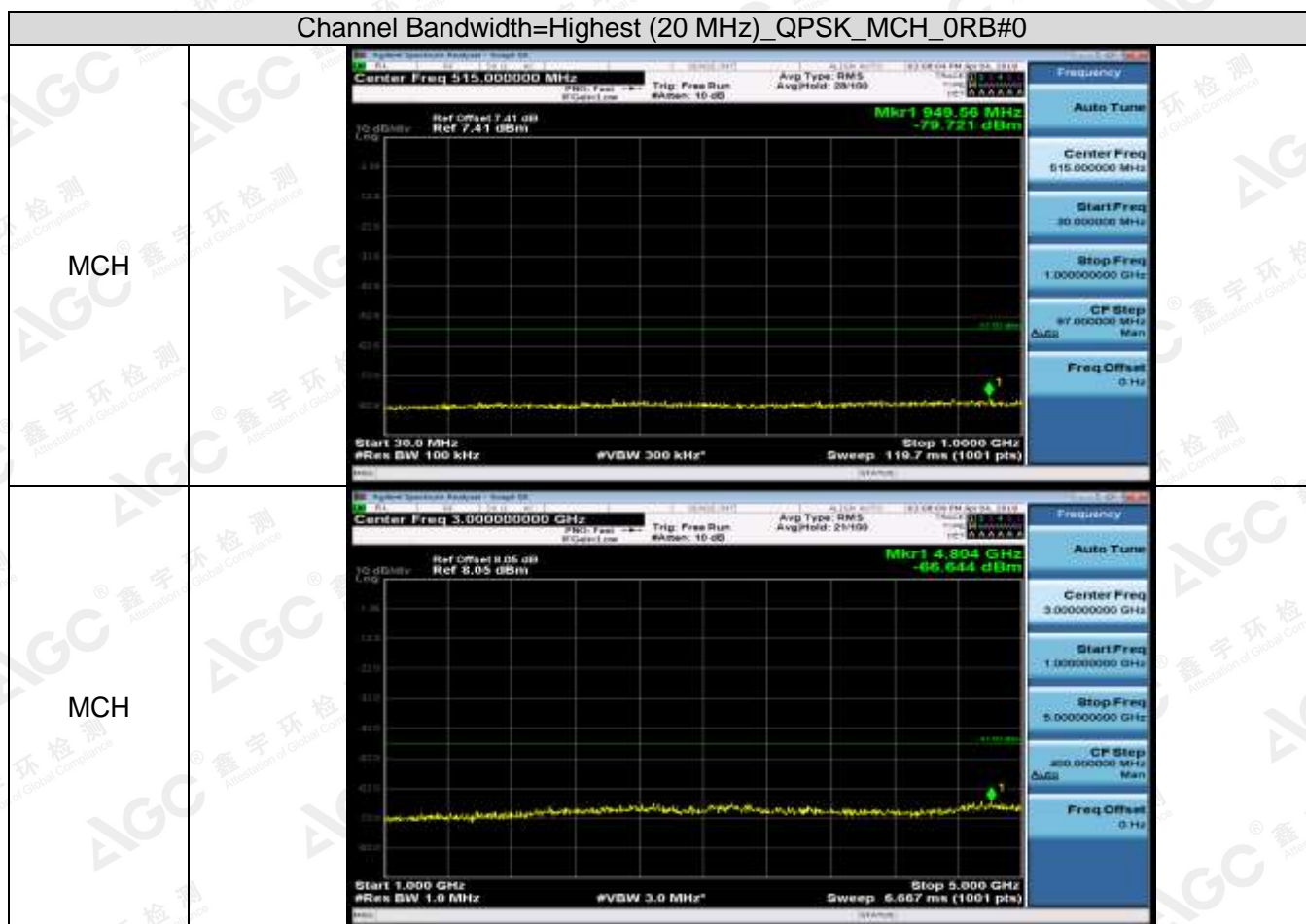
Test Graphs

NTNV

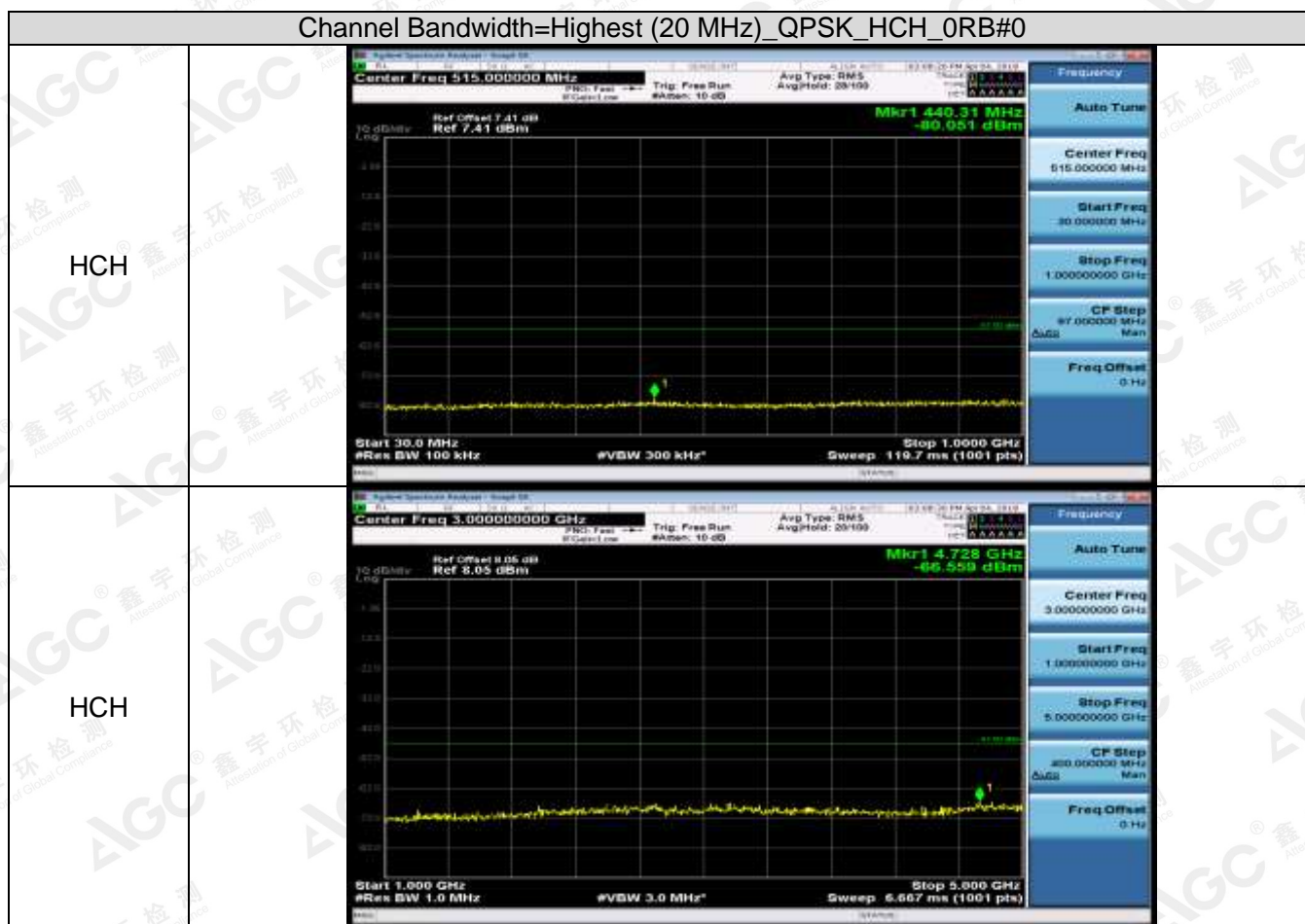
Channel Bandwidth=Highest



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7. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

Channel Bandwidth=Highest= (20 MHz)

Frequency	Modulation	RBW	Max .Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-86.19	-86.82	-87.11
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-73.53	-73.36	-73.95
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-71.94	-71.65	-72.59
Verdict	PASS					

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8. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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9. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

In-Band Blocking

	Downlink Configuration		Uplink Configuration		CASE2
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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Out-of Band Blocking

Test Environment			NC		
Test Frequencies			Low range for FInterferer below FDL_low High range for FInterferer above FDL_high		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

Narrow Band

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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10. Receiver Spurious Response

test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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11. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Band			Band 1			
Test Environment			NC			
Test Frequencies			Mid range			
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz			
Test Parameters for Channel Bandwidths						
	Downlink Configuration		Uplink Configuration			
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
		FDD		FDD		
5MHz	QPSK	Full	QPSK	25	PASS	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
20MHz	QPSK	Full	QPSK	100	PASS	≥ 95 %
Verdict	Pass					

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12. Receiver Reference Sensitivity Level

Test Results

NTNV

	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,5MHz,Highest 20MHz			
	Test Parameters for Channel Bandwidths						
		DownlinkConfiguration		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
			FDD		FDD		
TNVN	5MHz	QPSK	Full	QPSK	25	PASS	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	PASS	≥ 95 %
	Verdict	Pass					
TL,VL	5MHz	QPSK	Full	QPSK	25	PASS	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	PASS	≥ 95 %
	Verdict	Pass					
TL,VH	5MHz	QPSK	Full	QPSK	25	PASS	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	PASS	≥ 95 %
	Verdict	Pass					

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Appendix B for Band 3

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

LTHV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
LTHV	QPSK	1.4 MHz	Low range	1	0	21.58	Pass
					max	21.52	Pass
				Partial	0	21.63	Pass
					max	21.65	Pass
			Mid range	1	0	21.16	Pass
					max	21.16	Pass
				Partial	0	21.18	Pass
					max	21.19	Pass
			High range	1	0	20.83	Pass
					max	20.82	Pass
				Partial	0	20.94	Pass
					max	20.97	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
LTHV	QPSK	5MHz	Low range	1	0	21.47	Pass
					max	21.44	Pass
				Partial	0	21.55	Pass
					max	21.61	Pass
			Mid range	1	0	21.09	Pass
					max	21.03	Pass
				Partial	0	21.17	Pass
					max	21.16	Pass
			High range	1	0	20.86	Pass
					max	20.87	Pass
				Partial	0	20.89	Pass
					max	20.89	Pass

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Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
LTHV	QPSK	20 MHz	Low range	1	0	21.33	Pass
					max	21.23	Pass
				Partial	0	21.33	Pass
					max	21.22	Pass
			Mid range	1	0	21.11	Pass
					max	20.89	Pass
				Partial	0	21.03	Pass
					max	20.88	Pass
			High range	1	0	20.76	Pass
					max	20.66	Pass
				Partial	0	20.84	Pass
					max	20.69	Pass

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2. Transmitter Minimum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

HTHV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
HTHV	QPSK	1.4 MHz	Low range	Full	0	-51.44	Pass
			Mid range	Full	0	-52.17	Pass
			High range	Full	0	-52.00	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
HTHV	QPSK	5MHz	Low range	Full	0	-51.60	Pass
			Mid range	Full	0	-52.05	Pass
			High range	Full	0	-52.00	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
HTHV	QPSK	20MHz	Low range	Full	0	-51.18	Pass
			Mid range	Full	0	-51.50	Pass
			High range	Full	0	-51.71	Pass

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3. Transmitter Spectrum Emission Mask

Test Result

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
Normal	QPSK	1.4 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
	Full		0	PUMAX	Pass		
	16QAM		Low range	Partial	0	PUMAX	Pass

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					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
			High range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass

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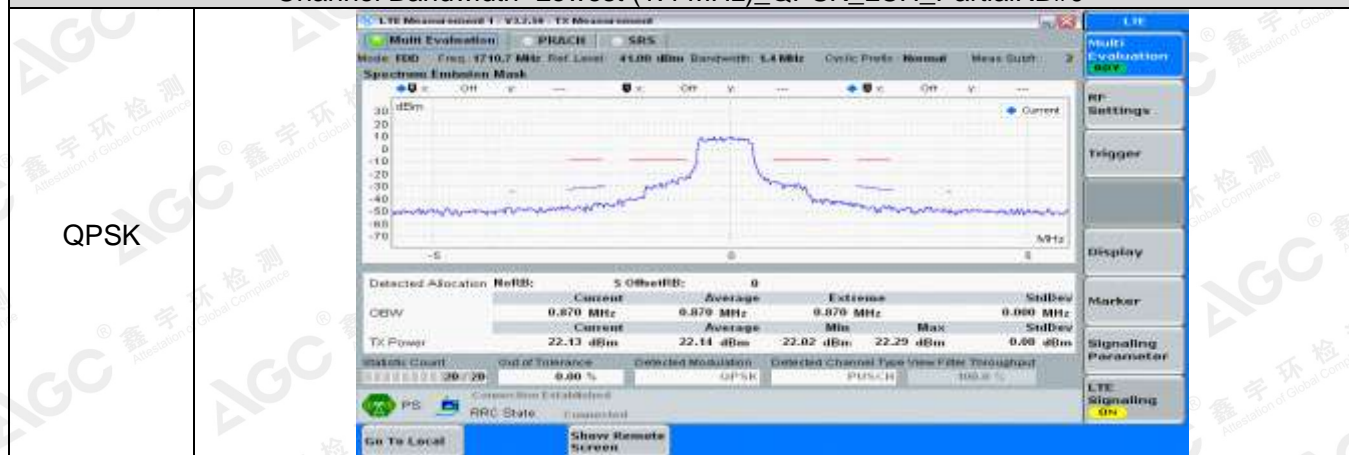
	16QAM	High range	Full	0	PUMAX	Pass
			Partial	0	PUMAX	Pass
				max	PUMAX	Pass
		Low range	Full	0	PUMAX	Pass
			Partial	0	PUMAX	Pass
				max	PUMAX	Pass
	16QAM	Mid range	Full	0	PUMAX	Pass
			Partial	0	PUMAX	Pass
				max	PUMAX	Pass
		High range	Full	0	PUMAX	Pass
			Partial	0	PUMAX	Pass
				max	PUMAX	Pass

Test Graphs

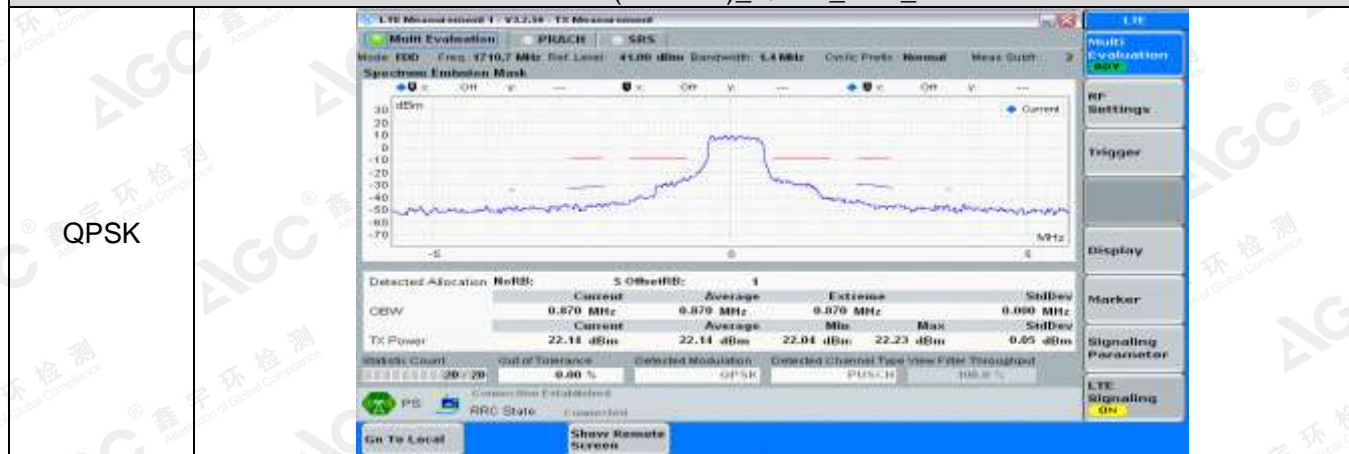
NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_PartialRB#0



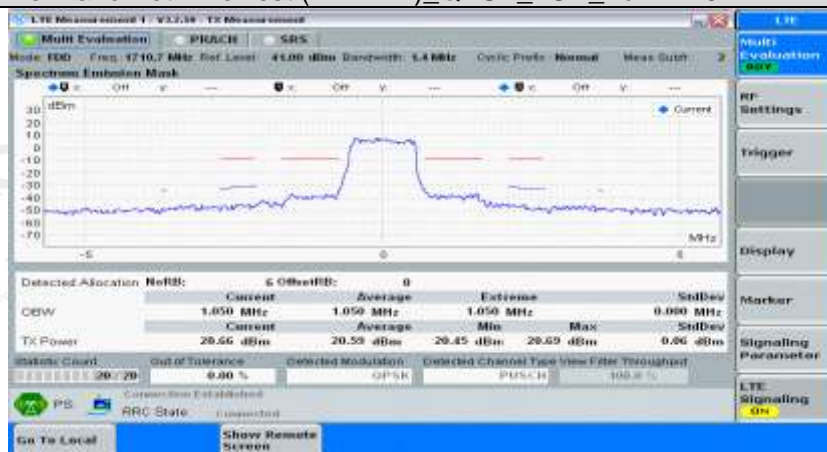
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_PartialRB#max



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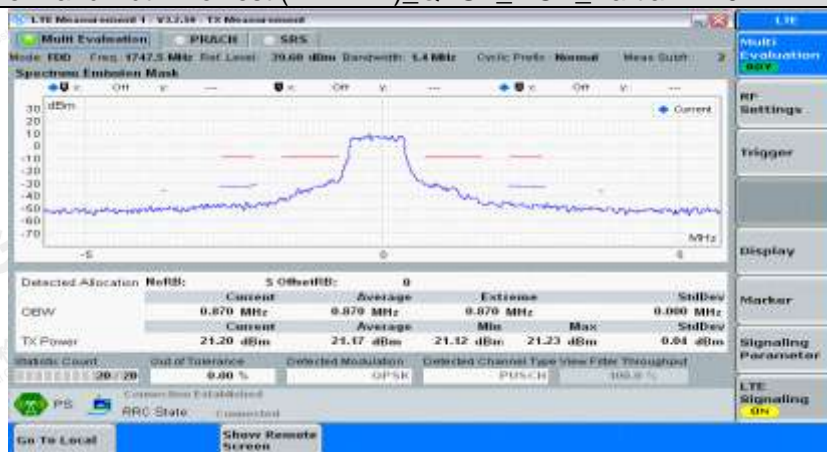
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_FullIRB#0

QPSK



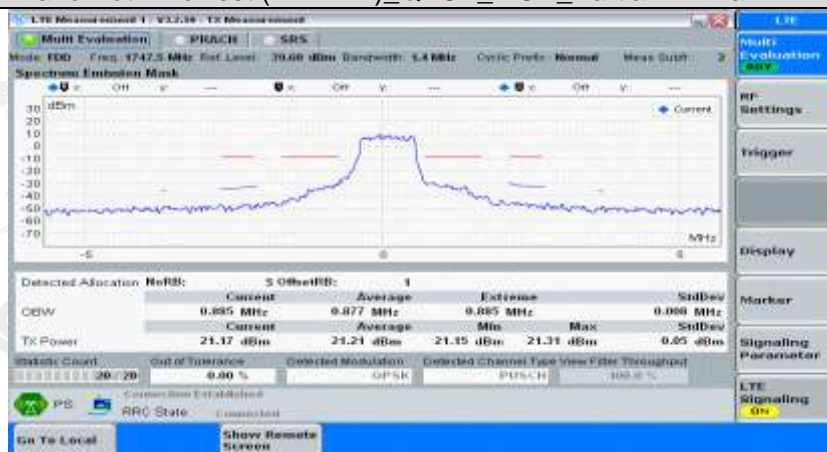
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_PartialIRB#0

QPSK



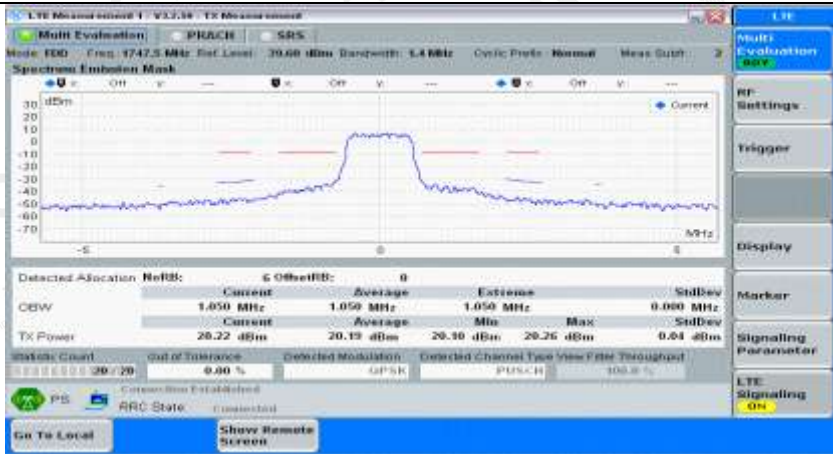
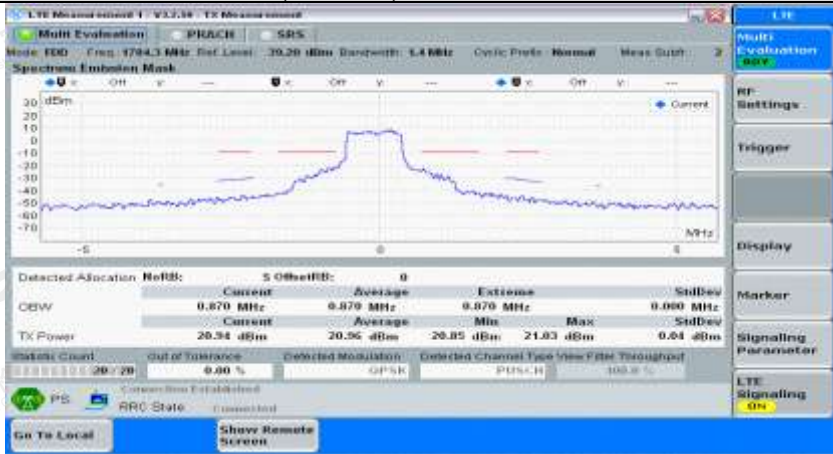
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_PartialIRB#max

QPSK

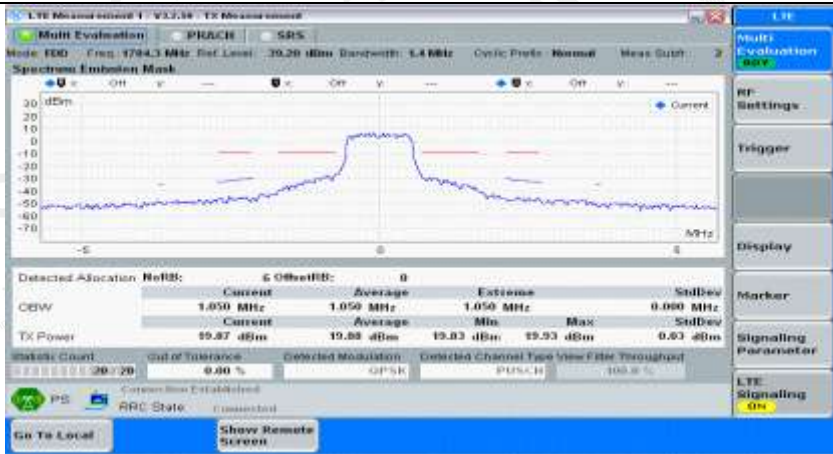
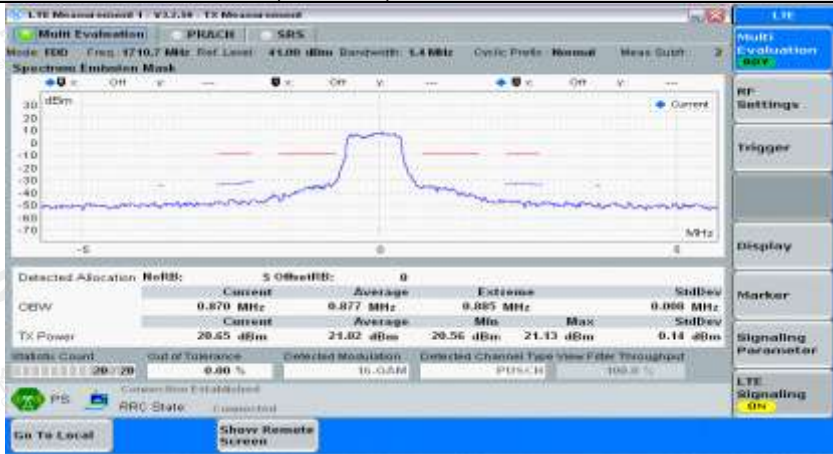
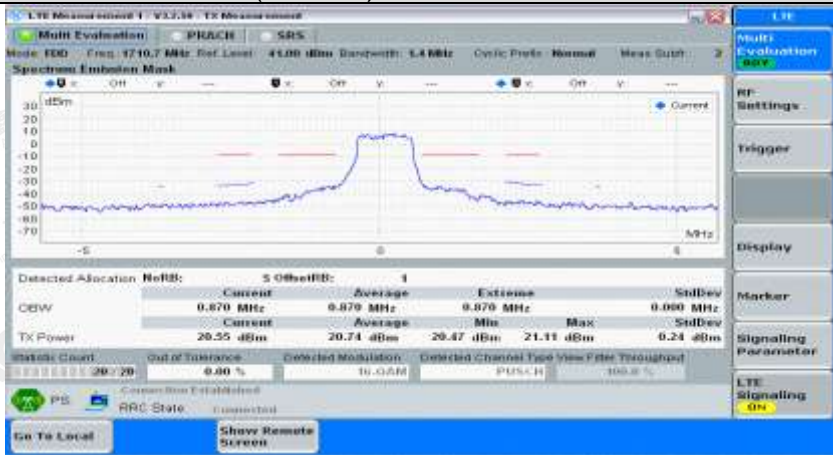


Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_FullIRB#0

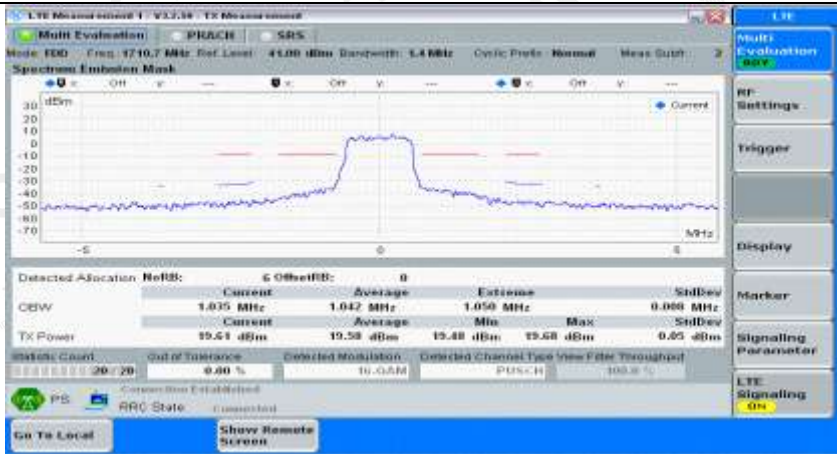
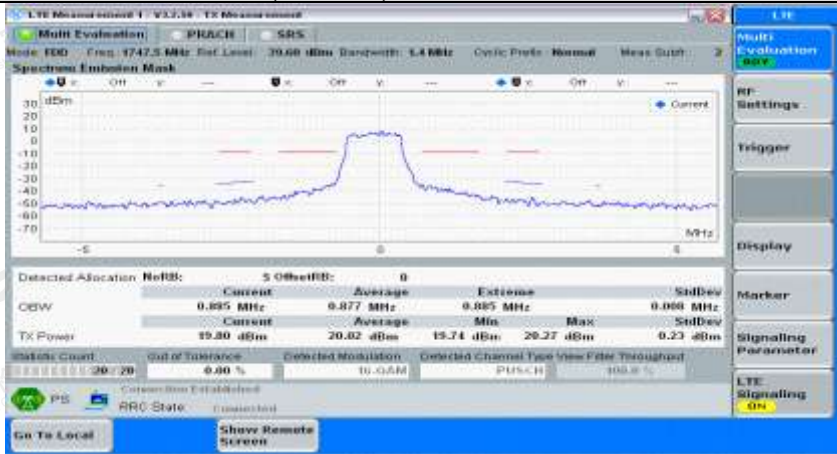
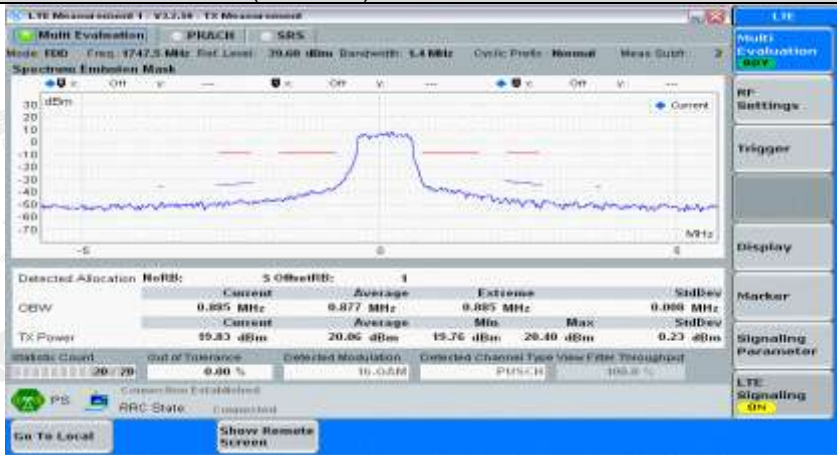
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QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_FullRB#0	

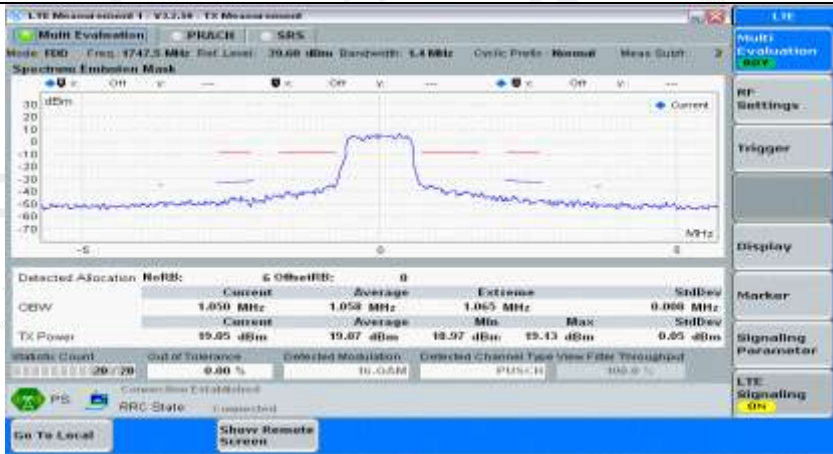
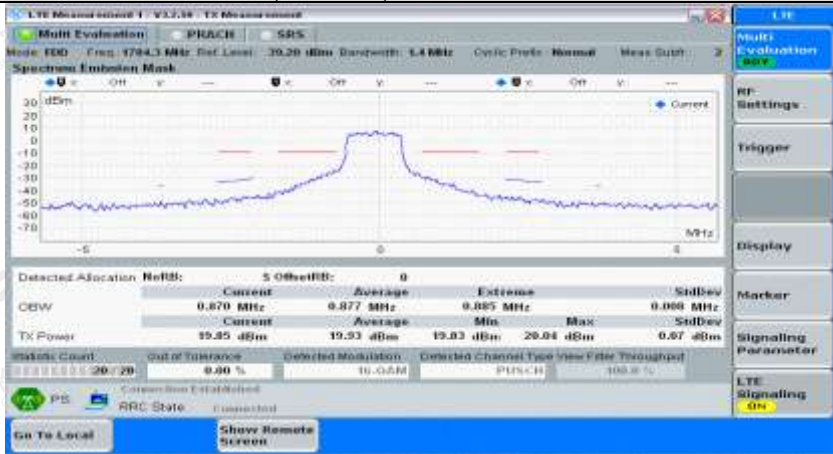
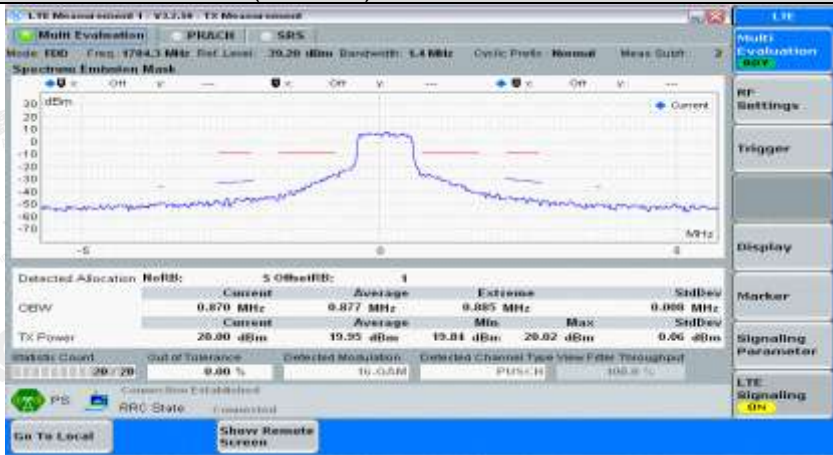
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QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_FullRB#0	

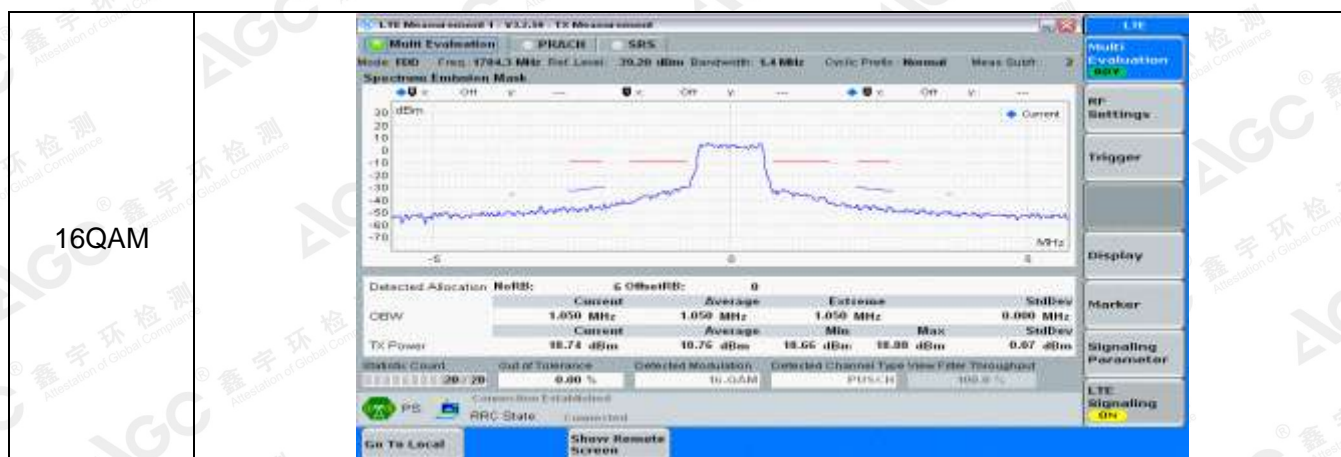
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16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_FullRB#0	

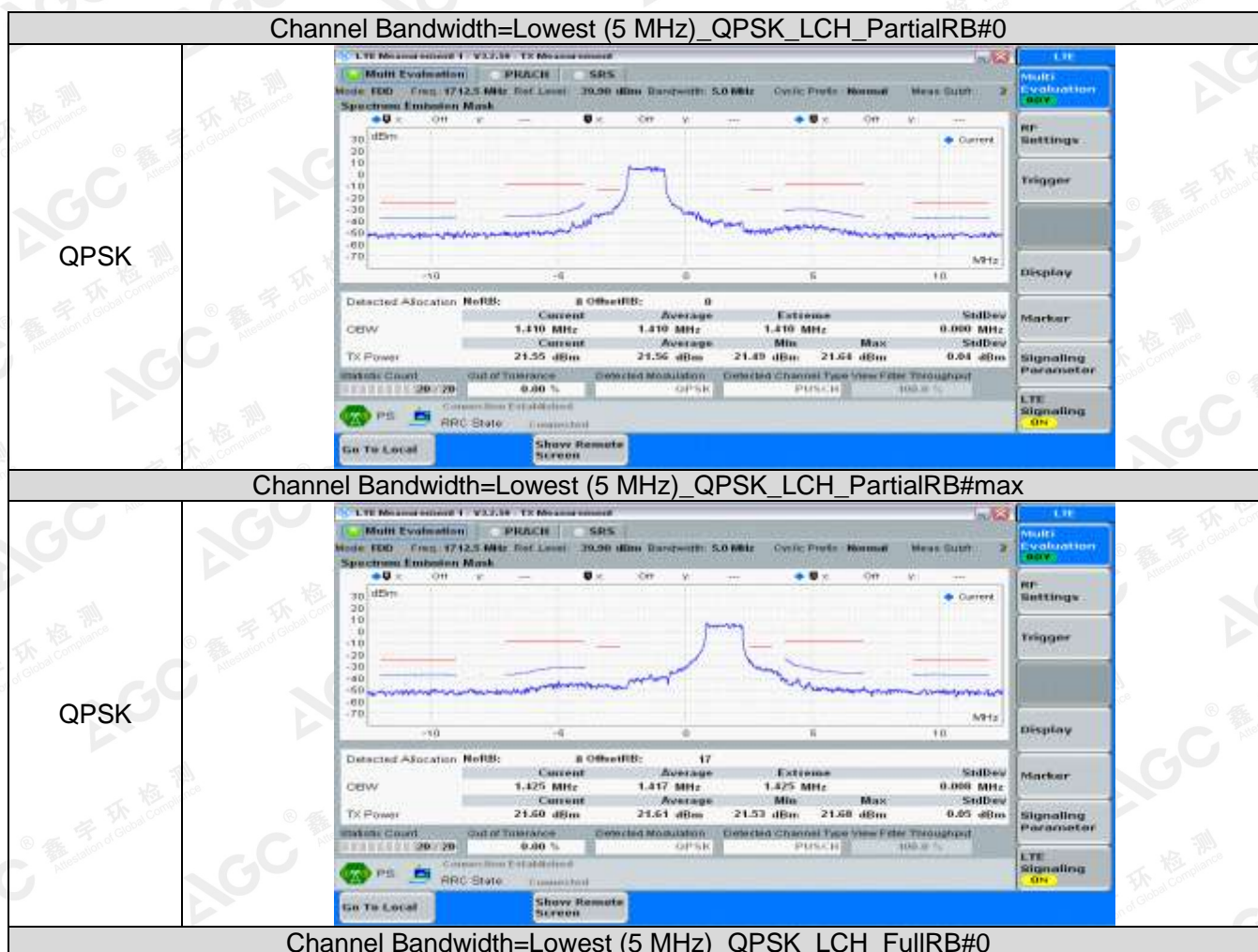
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16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_FullRB#0	

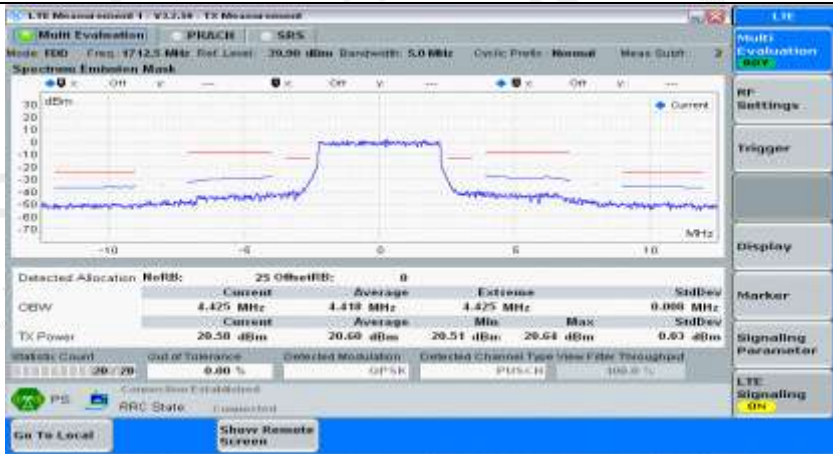
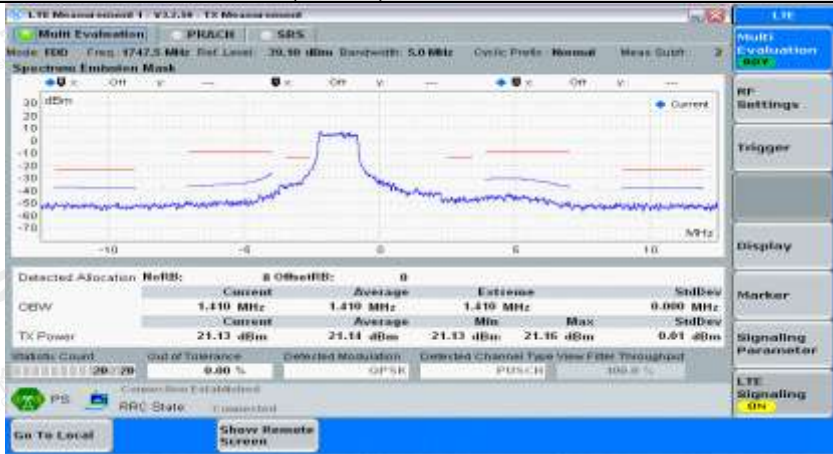
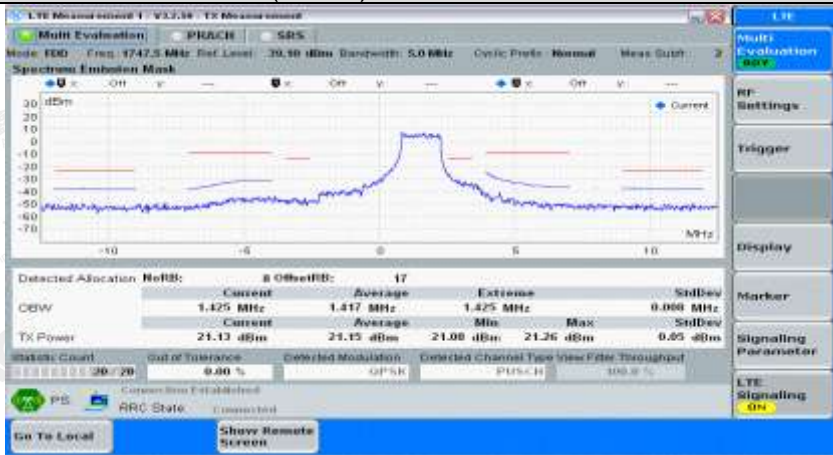
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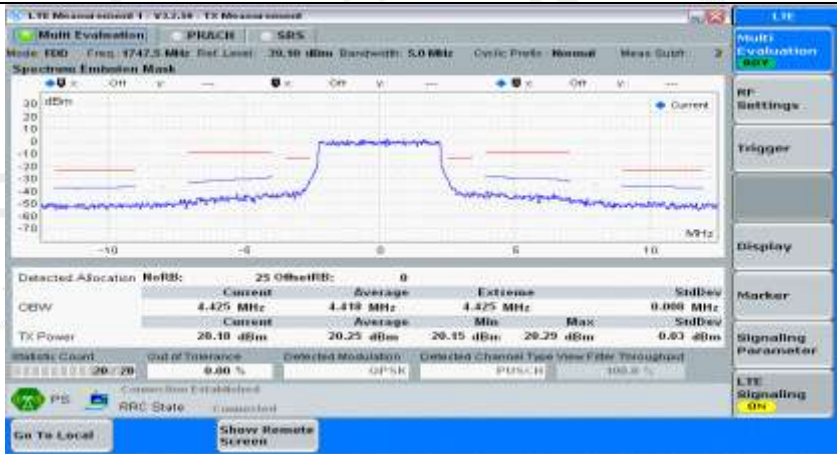
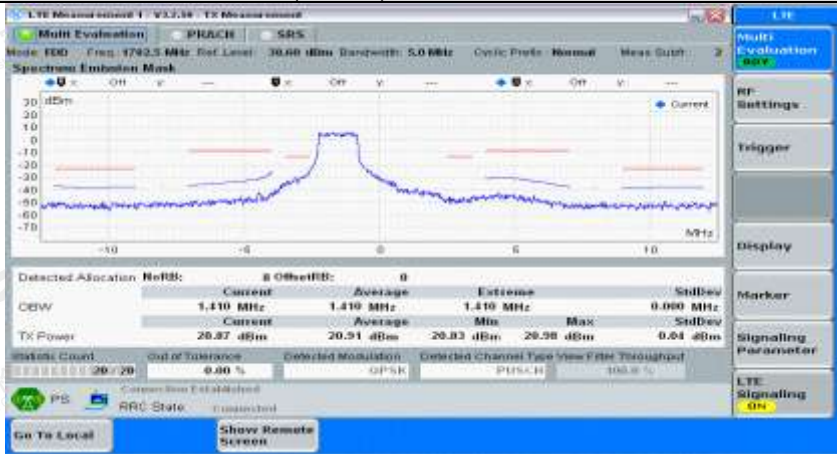
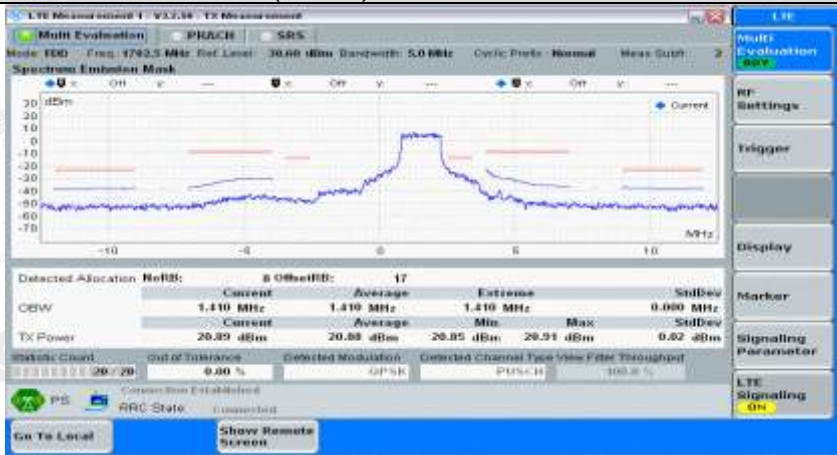
Channel Bandwidth= (5 MHz)



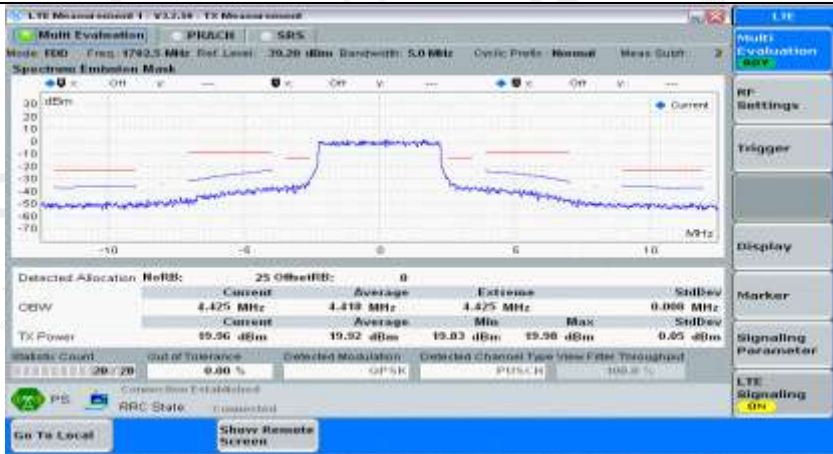
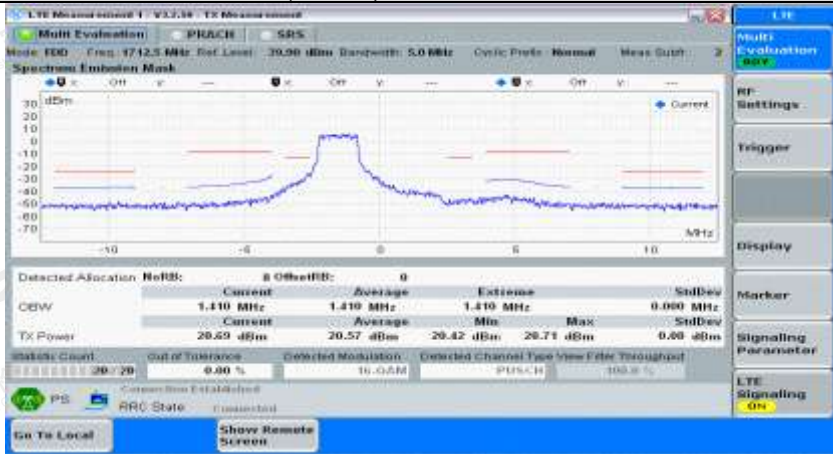
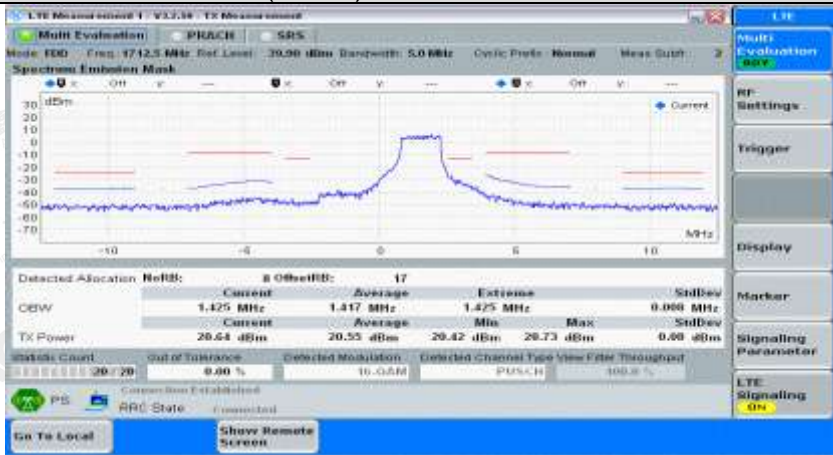
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	

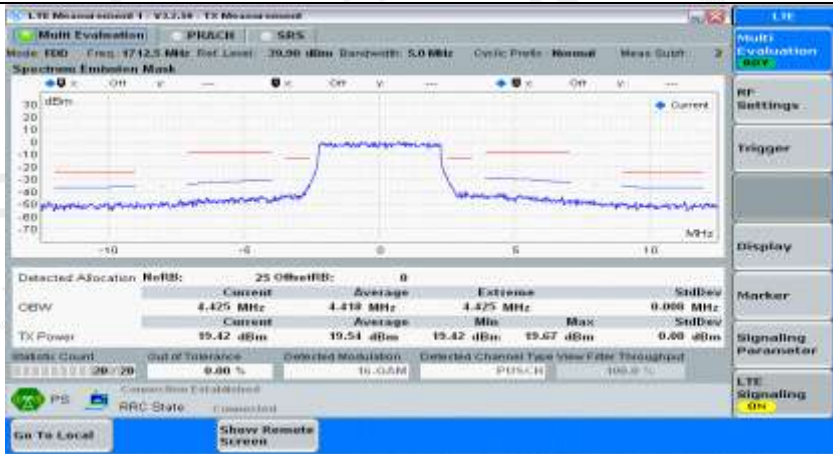
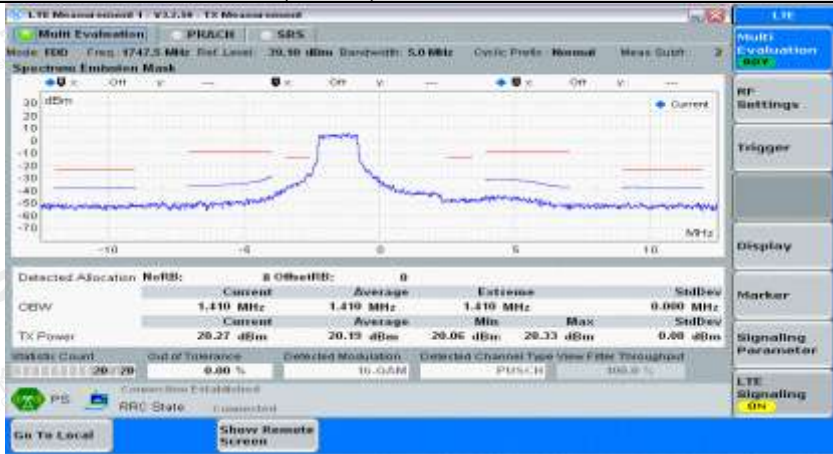
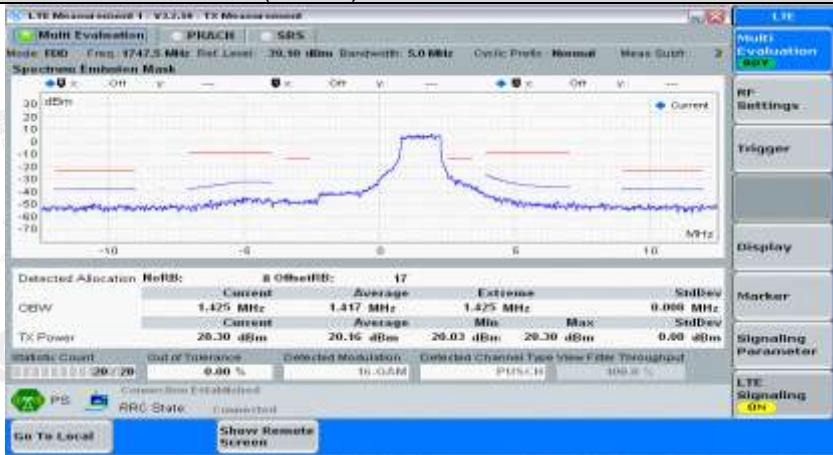
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	

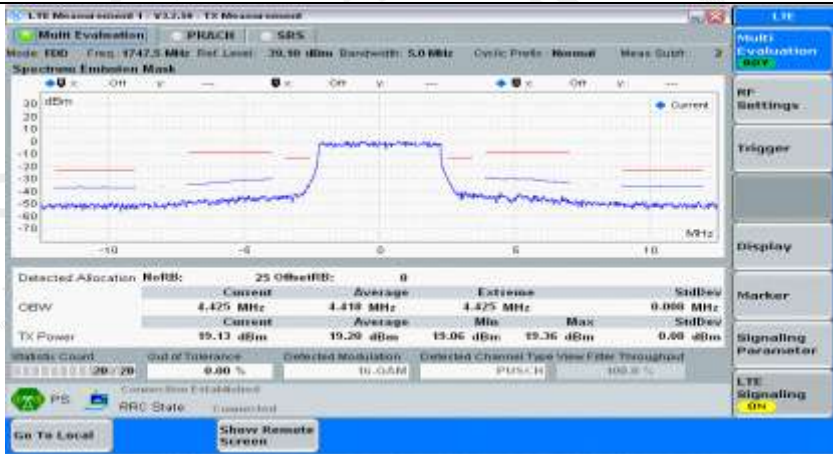
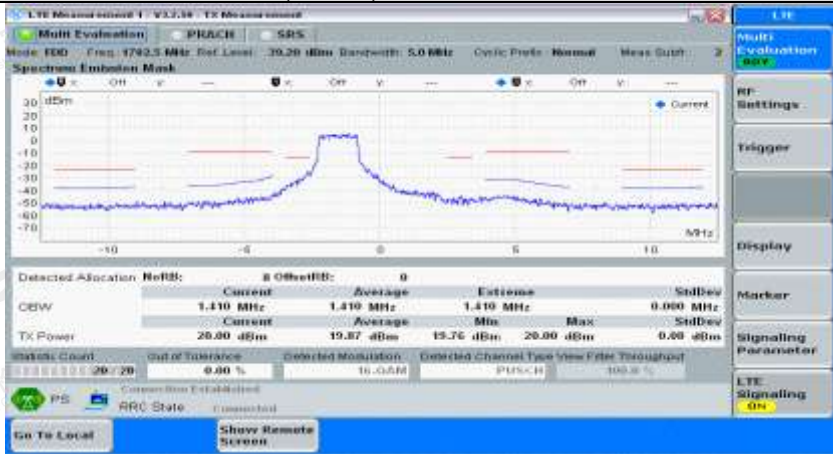
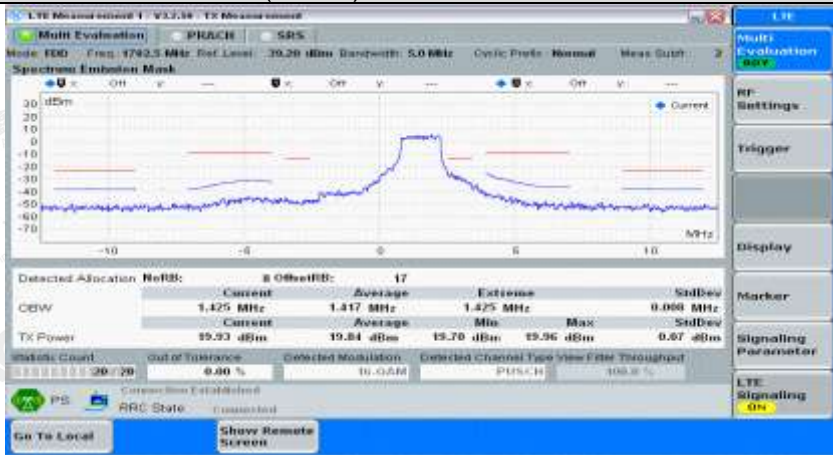
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullRB#0	

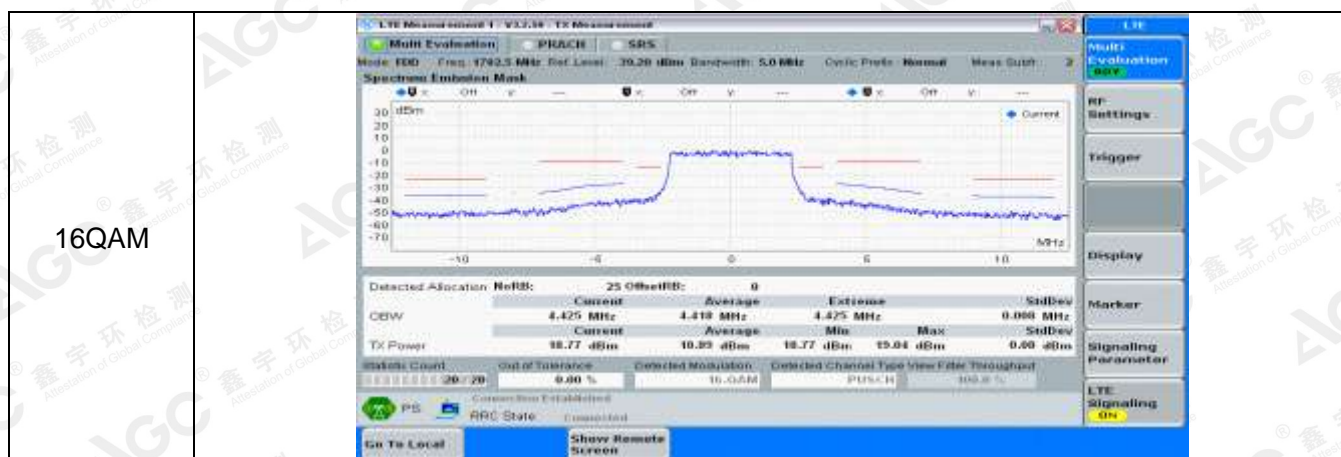
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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0	

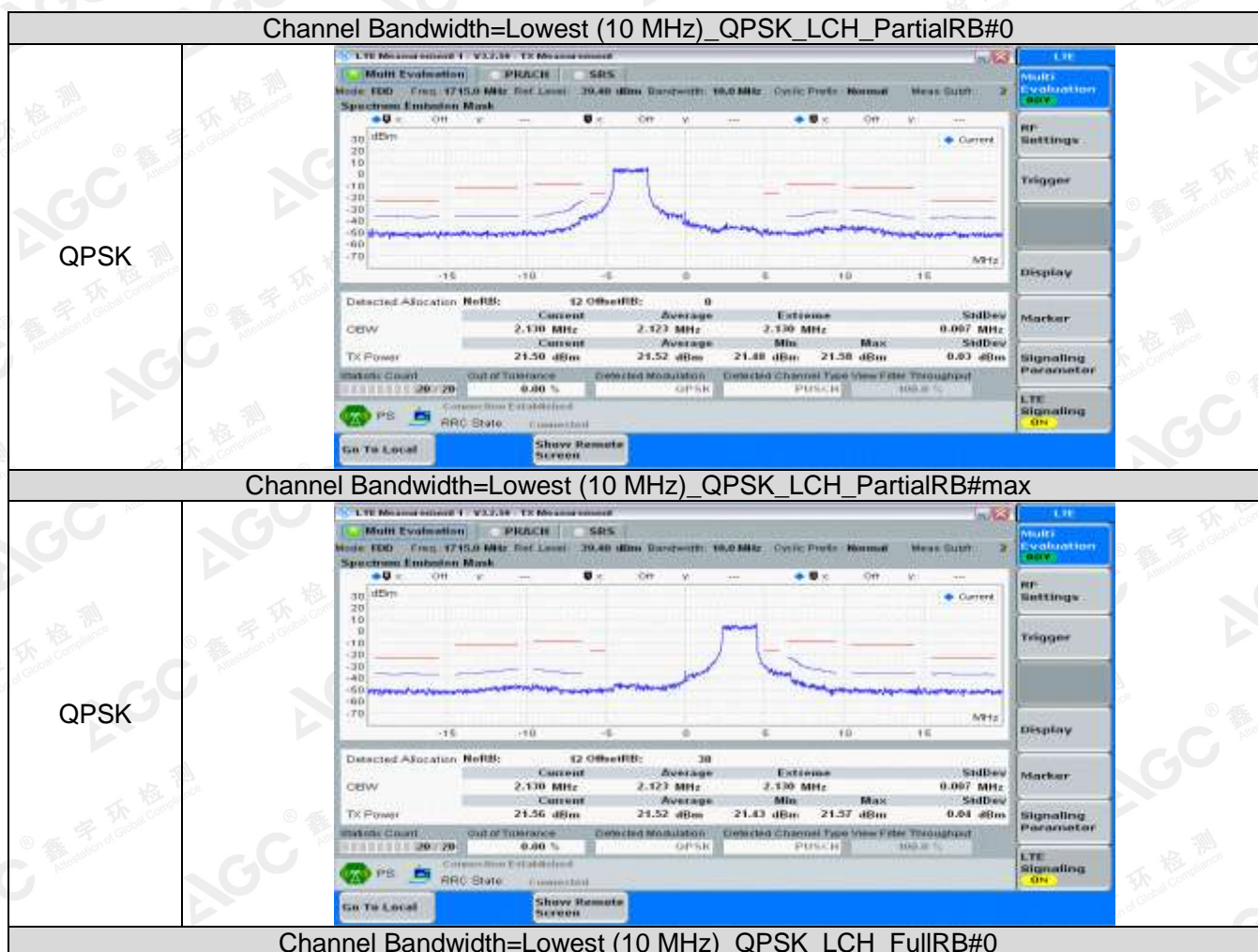
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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullRB#0</p>

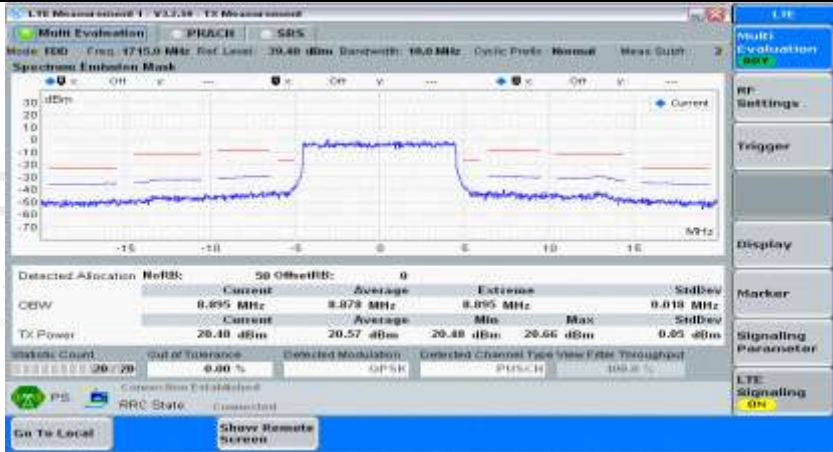
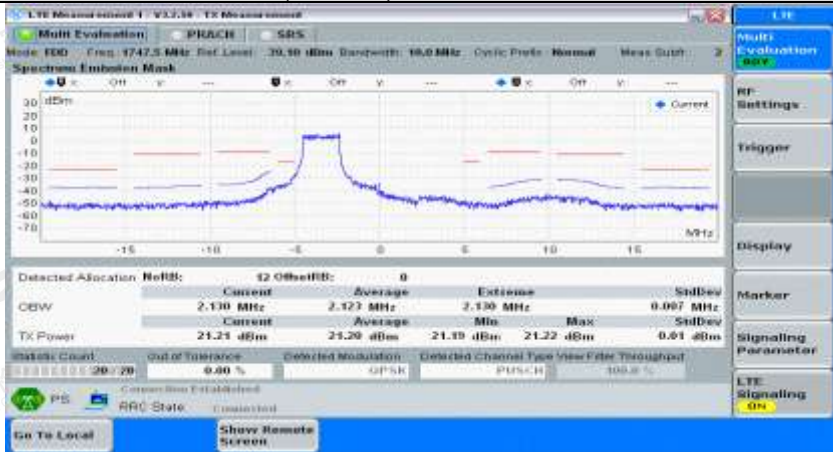
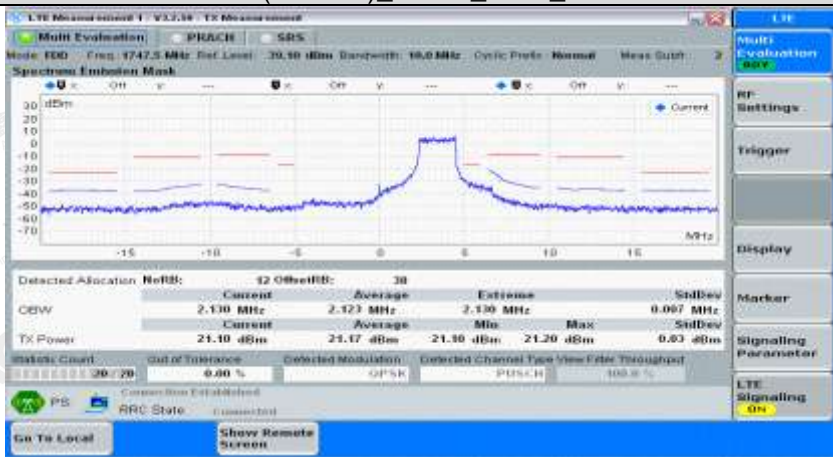
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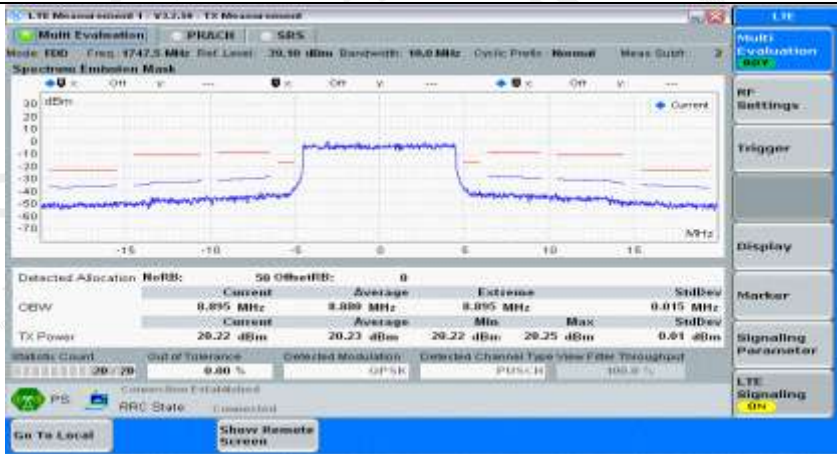
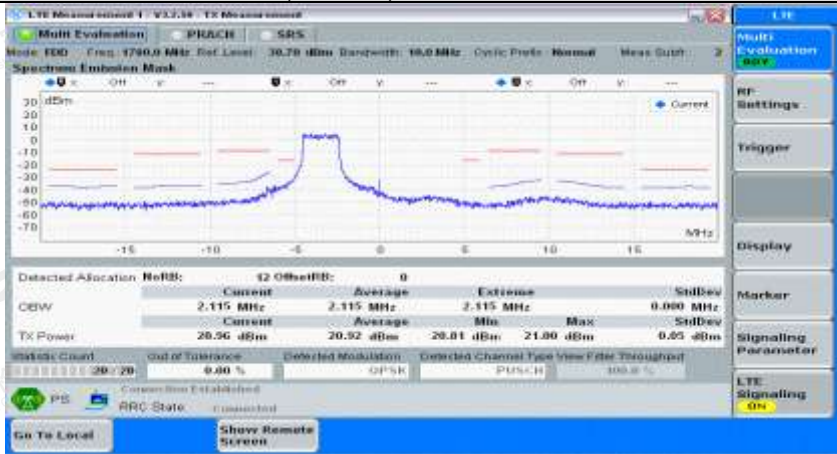
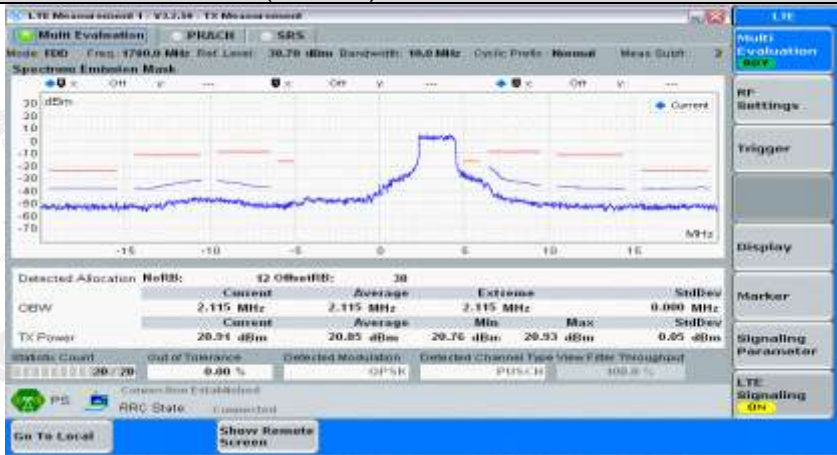
Channel Bandwidth= (10 MHz)



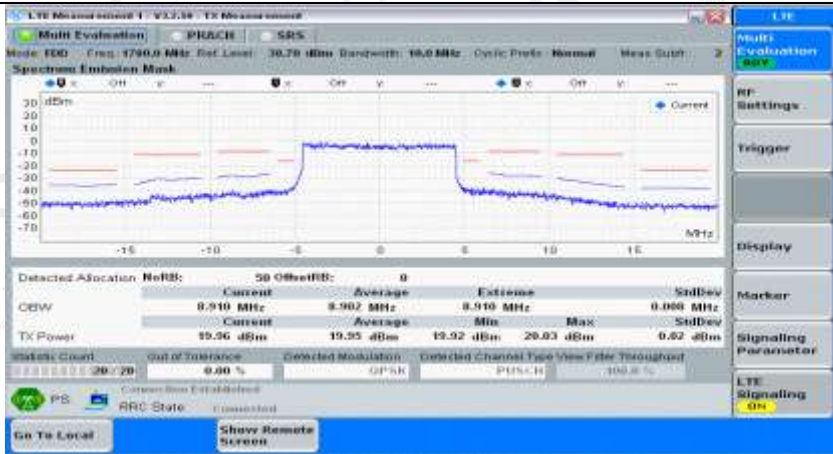
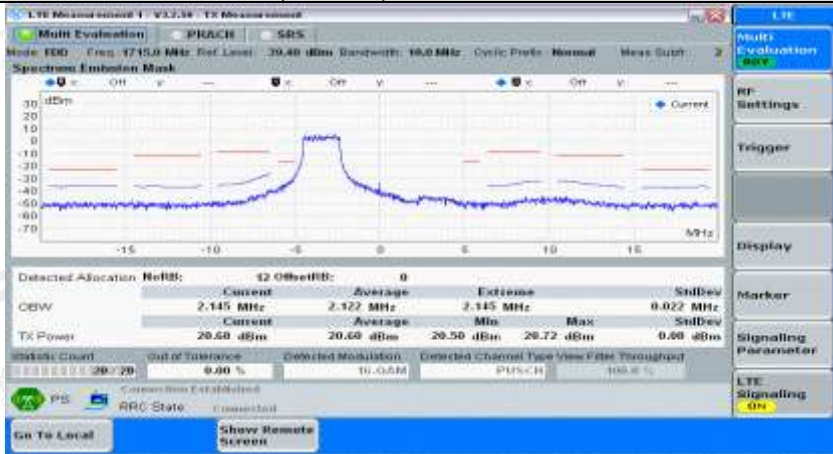
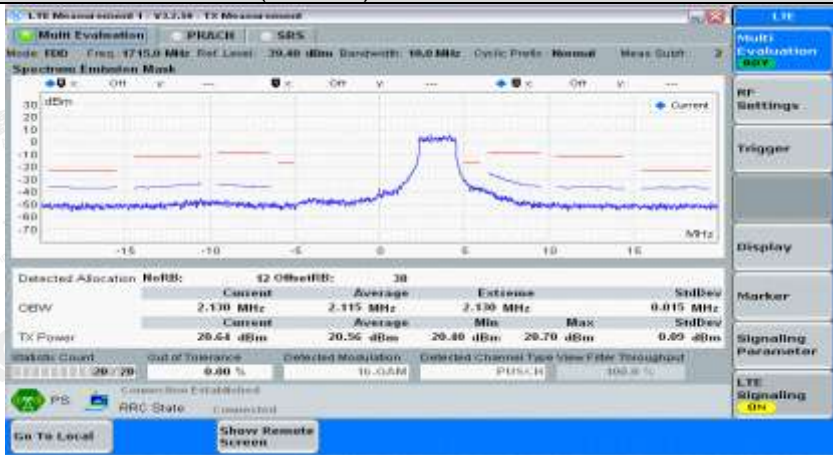
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullRB#0	

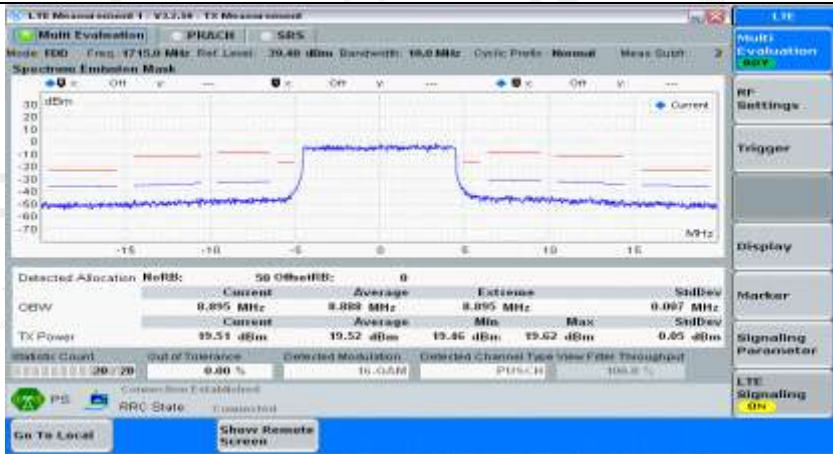
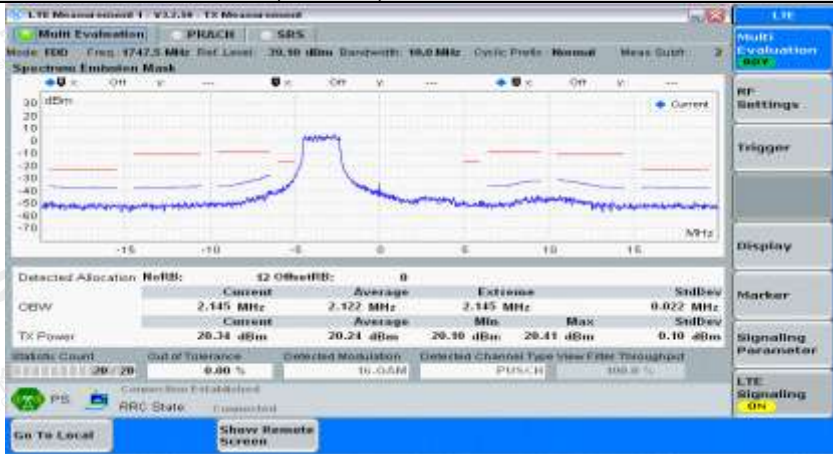
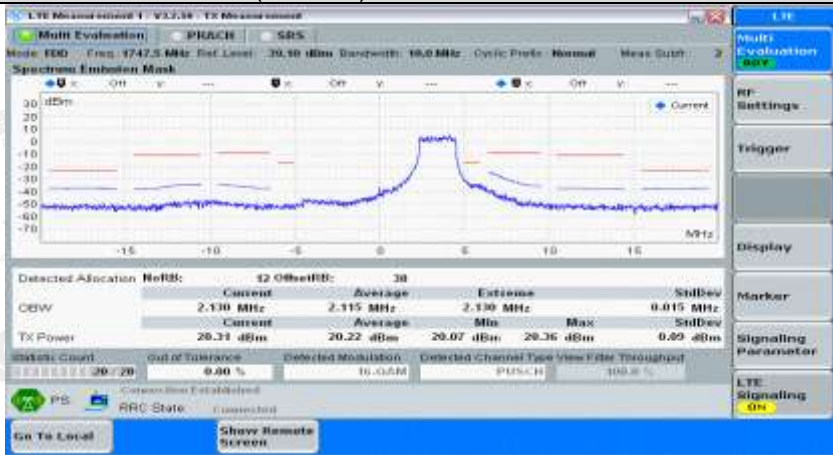
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0	

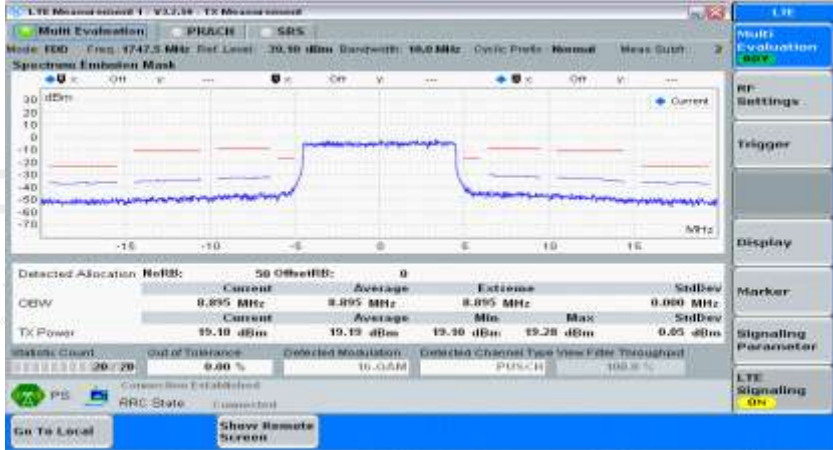
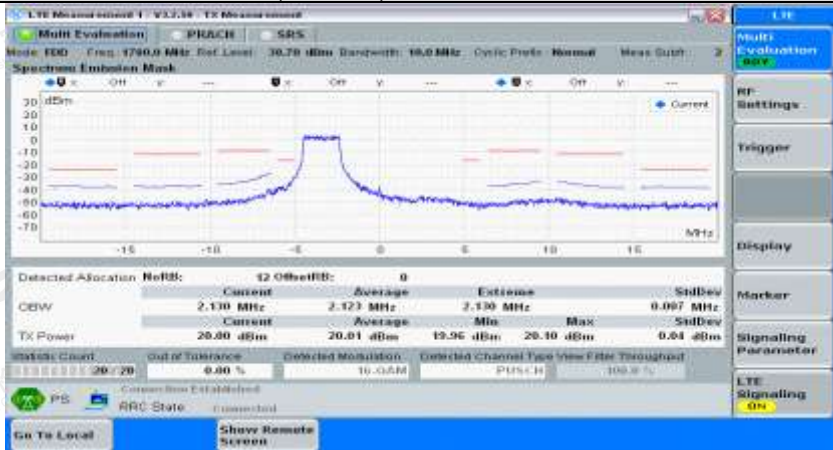
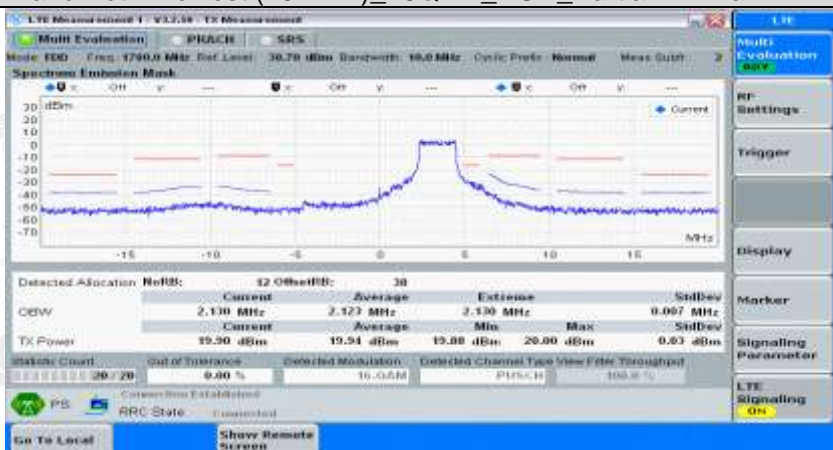
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0	

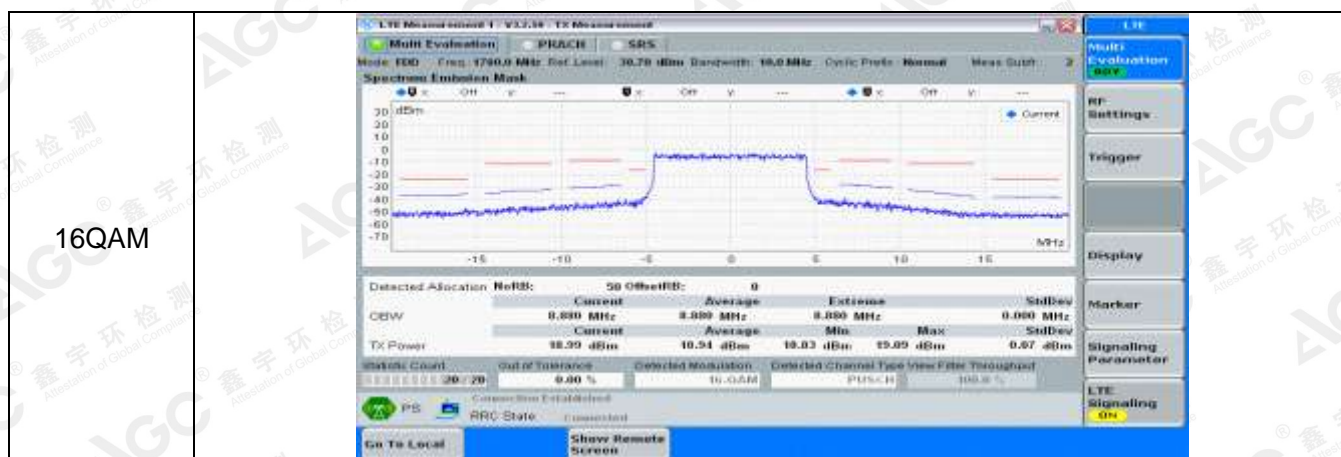
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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0	

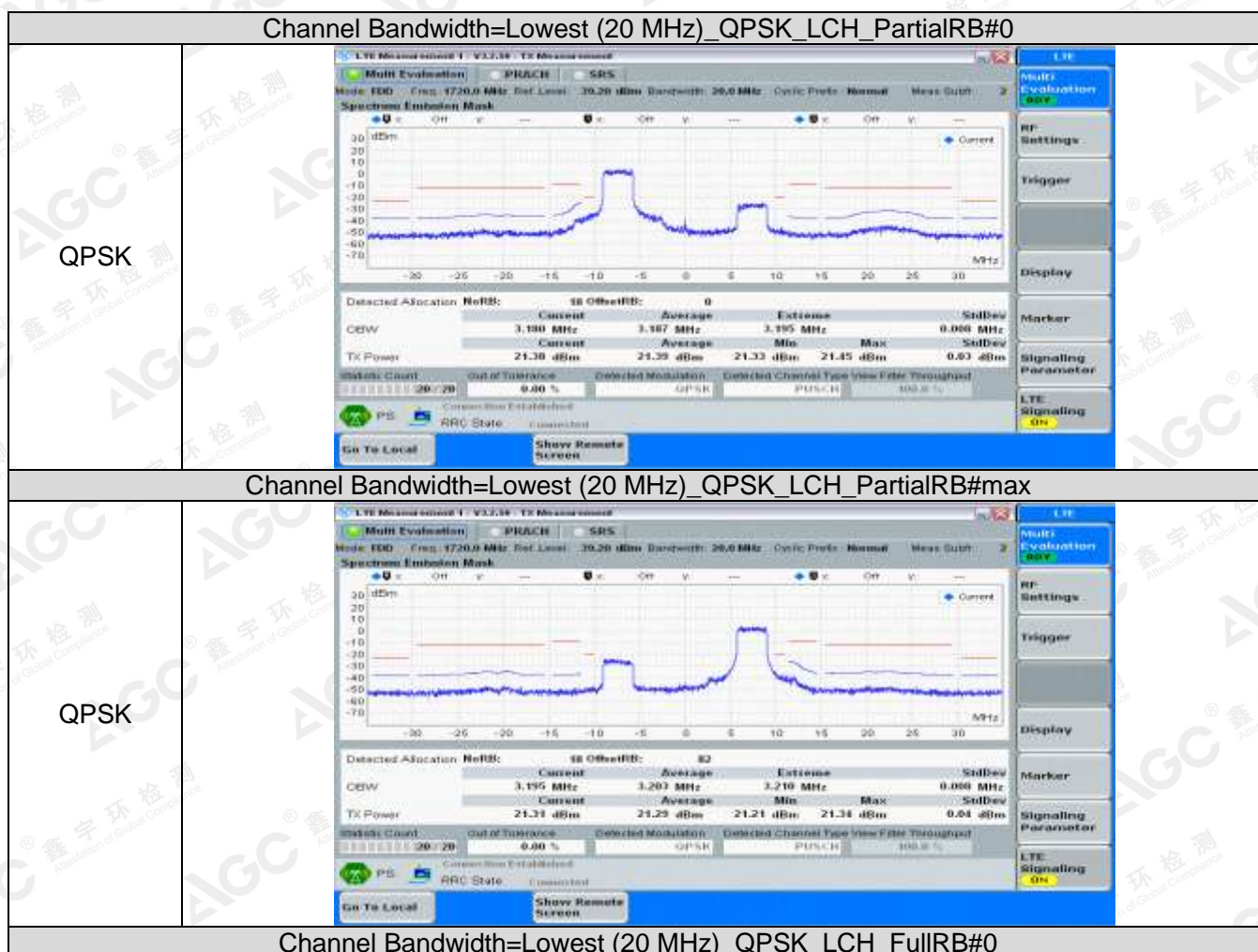
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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0	

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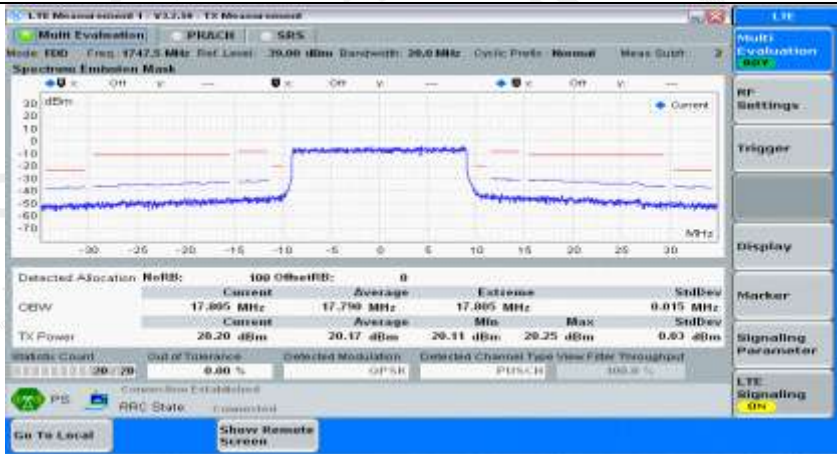
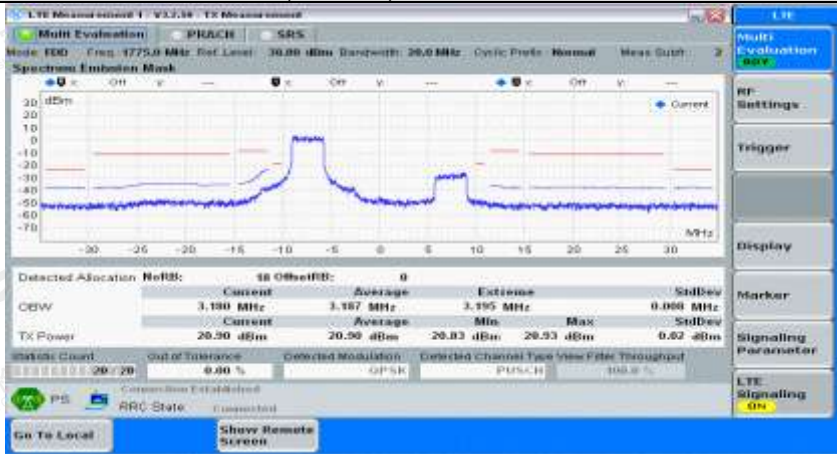
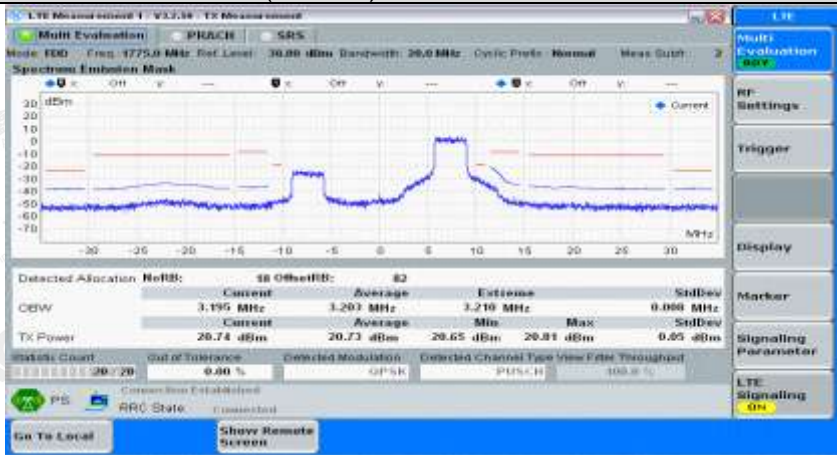
Channel Bandwidth=Highest (20 MHz)



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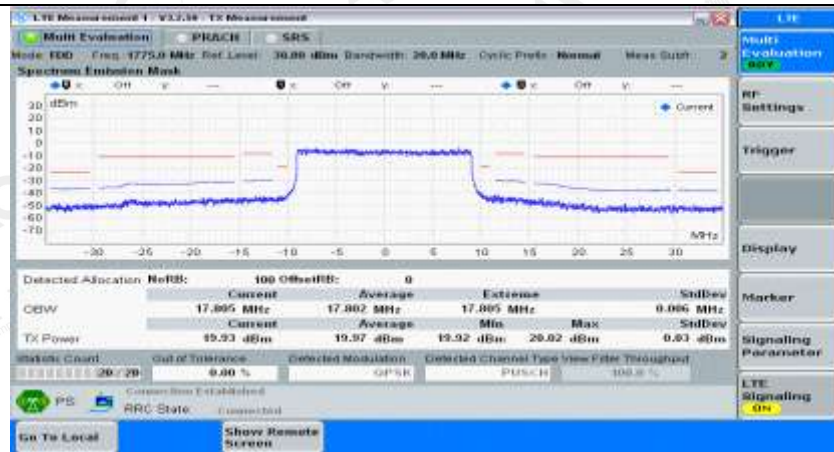
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullRB#0	

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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0</p>

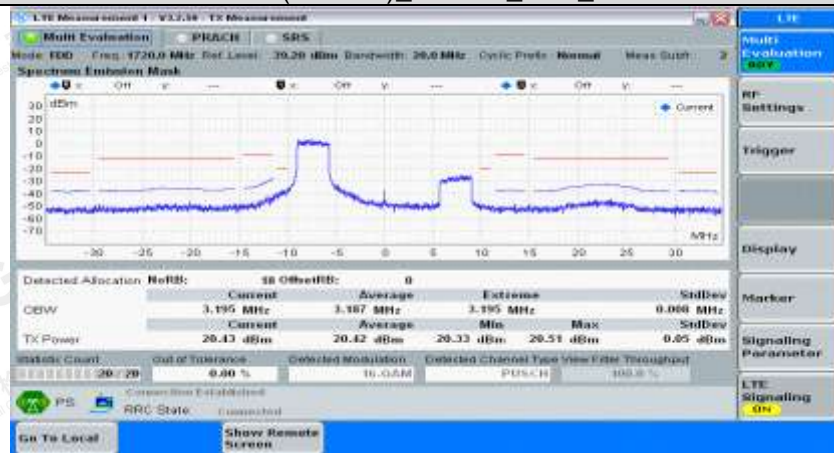
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QPSK



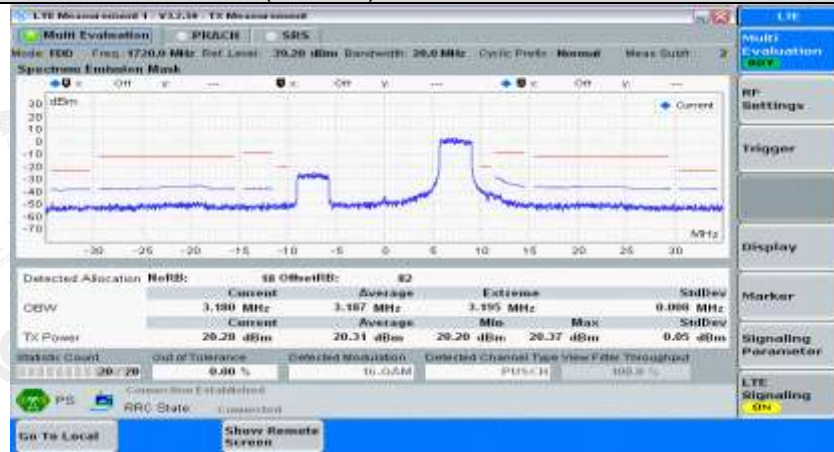
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0

16QAM



Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max

16QAM

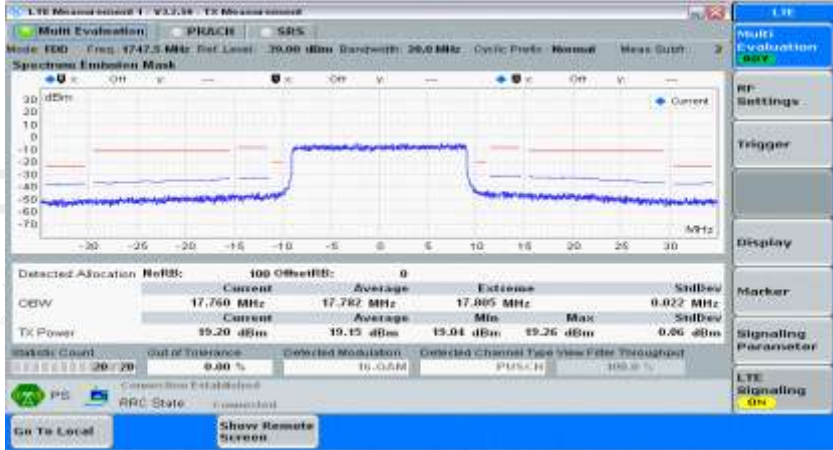
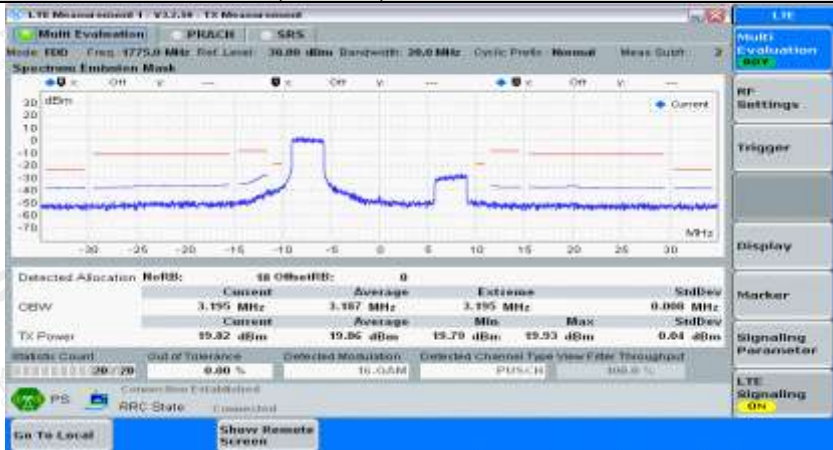
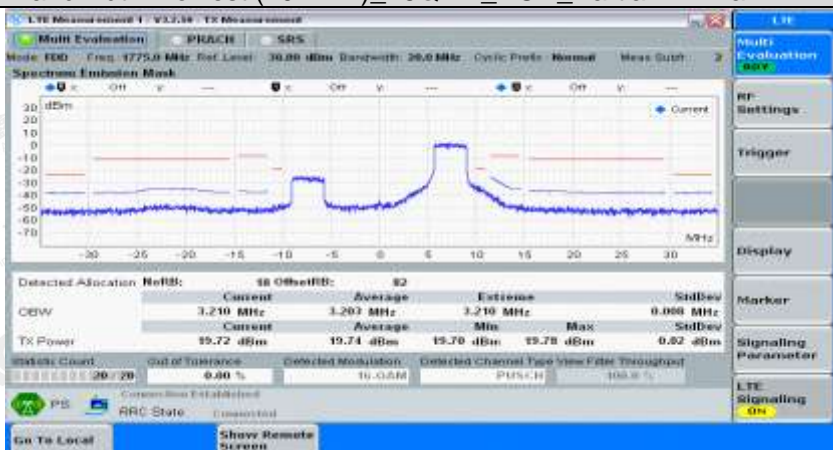


Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0

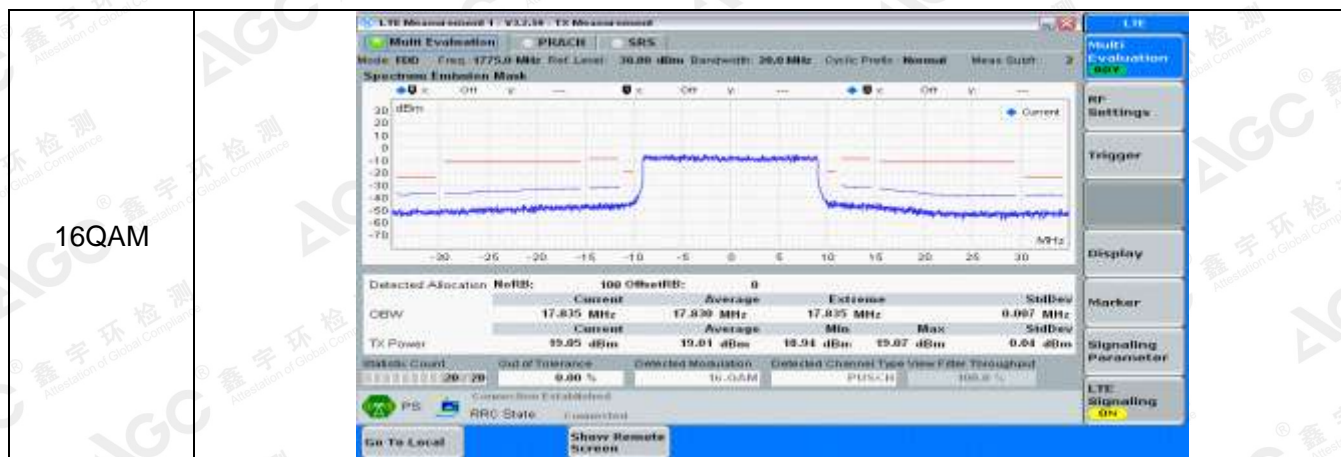
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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0	

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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0	

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4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

LTLV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
LTLV	QPSK	1.4 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
LTLV	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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	16QAM	Low range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		Mid range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		High range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
LTLV	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
LTLV	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					0	PUMAX	Pass

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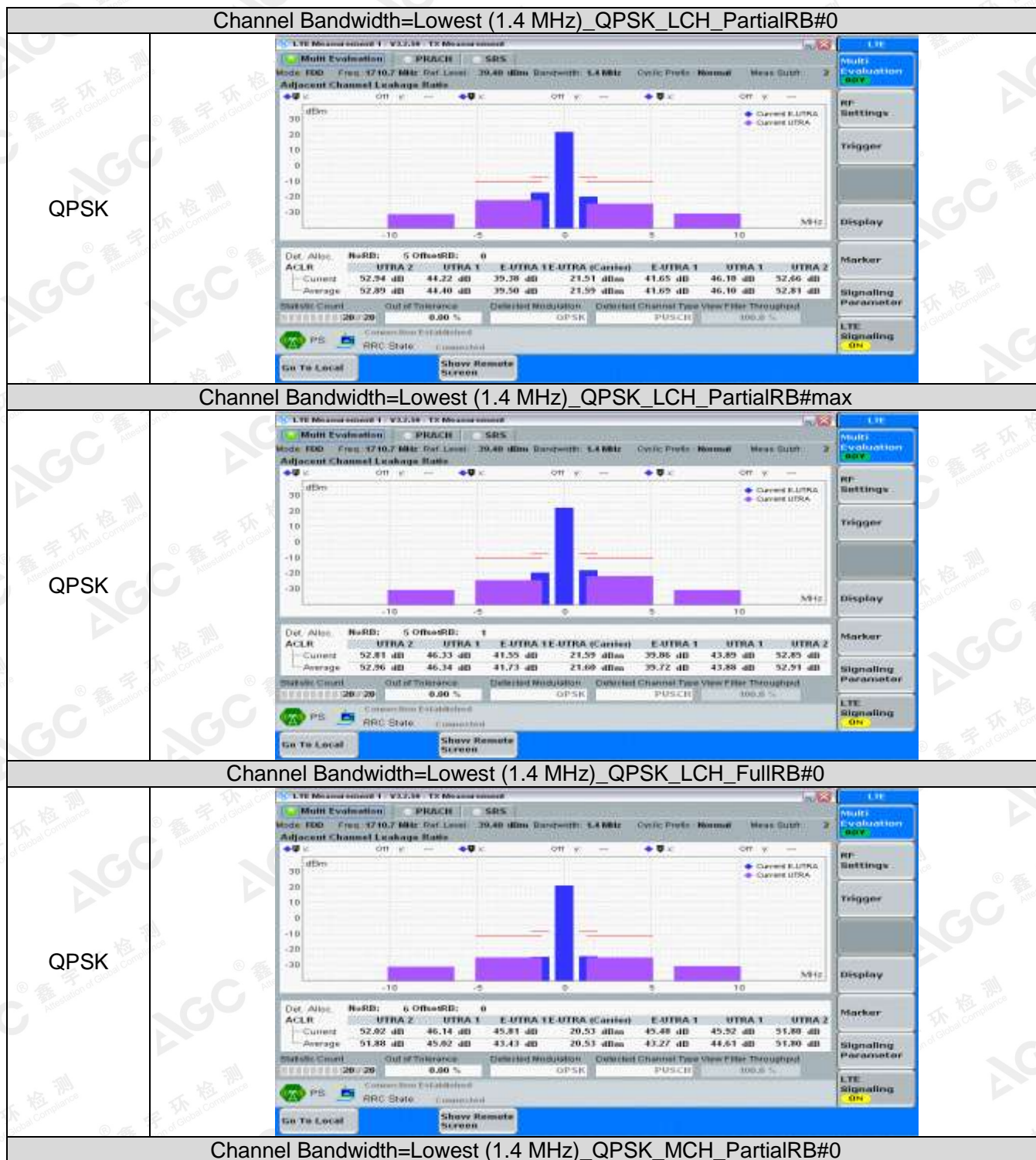
	16QAM		High range		max	PUMAX	Pass
				Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
			Low range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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Test Graphs

LTLV

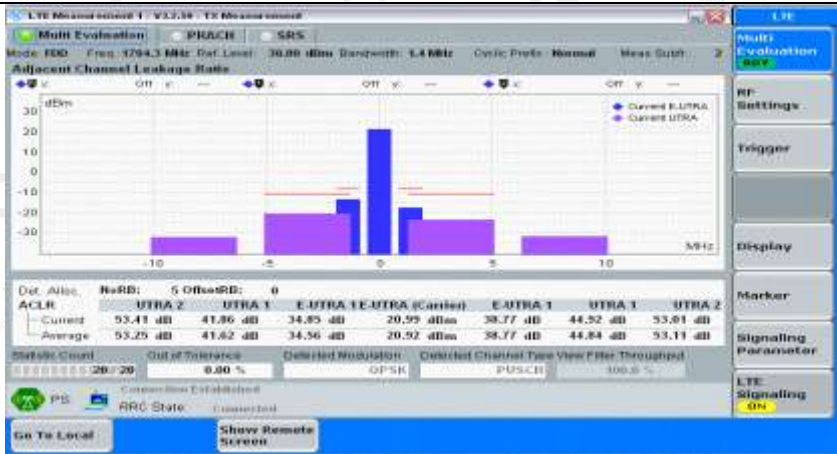
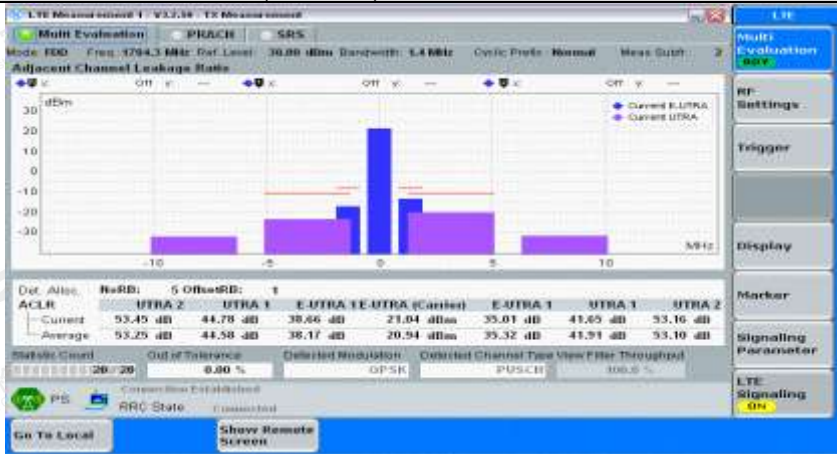
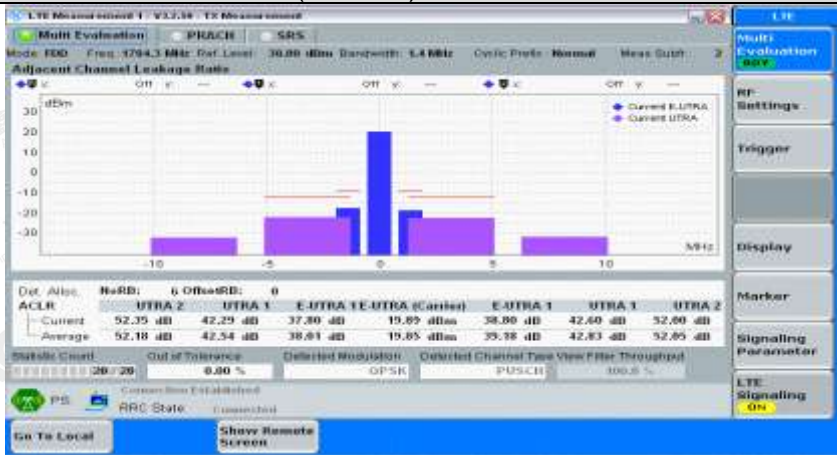
Channel Bandwidth=Lowest (1.4 MHz)



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QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#0</p>


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QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#0</p>




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16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#0</p>

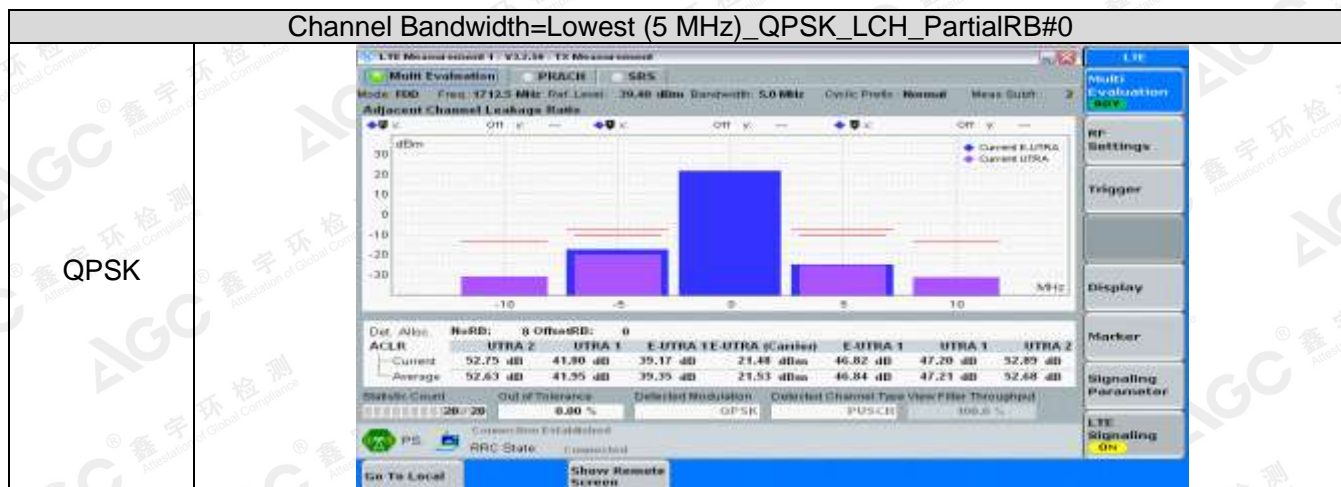
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16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	

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Channel Bandwidth= (5 MHz)

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#0



Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#max





Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullIRB#0






Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0


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QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0</p>



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QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0</p>




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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullIRB#0</p>
16QAM	

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Channel Bandwidth= (10 MHz)

Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullIRB#0

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0

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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0</p>

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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0</p>

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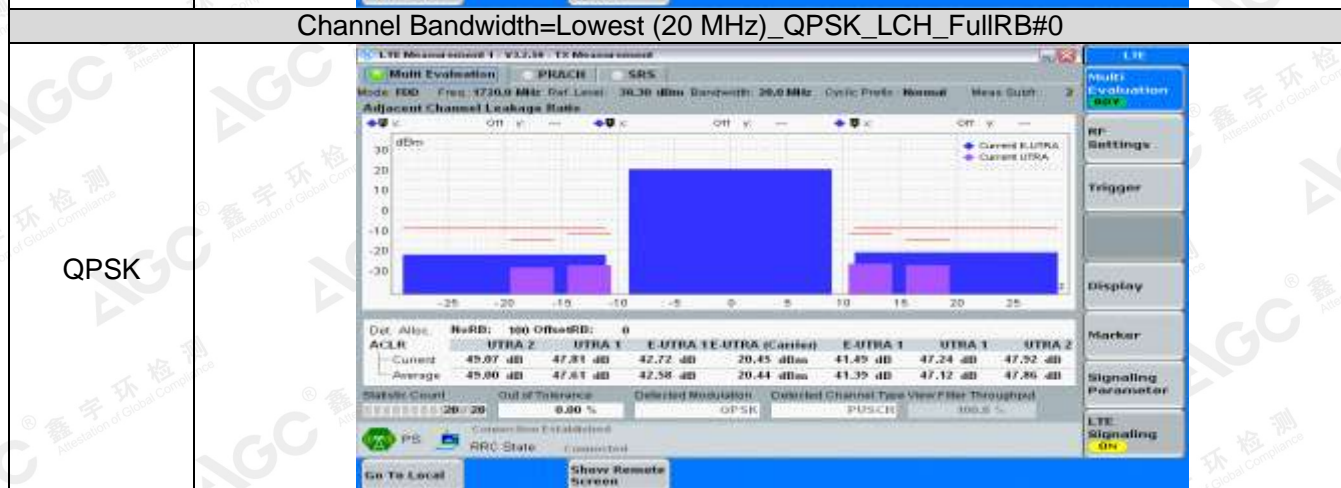
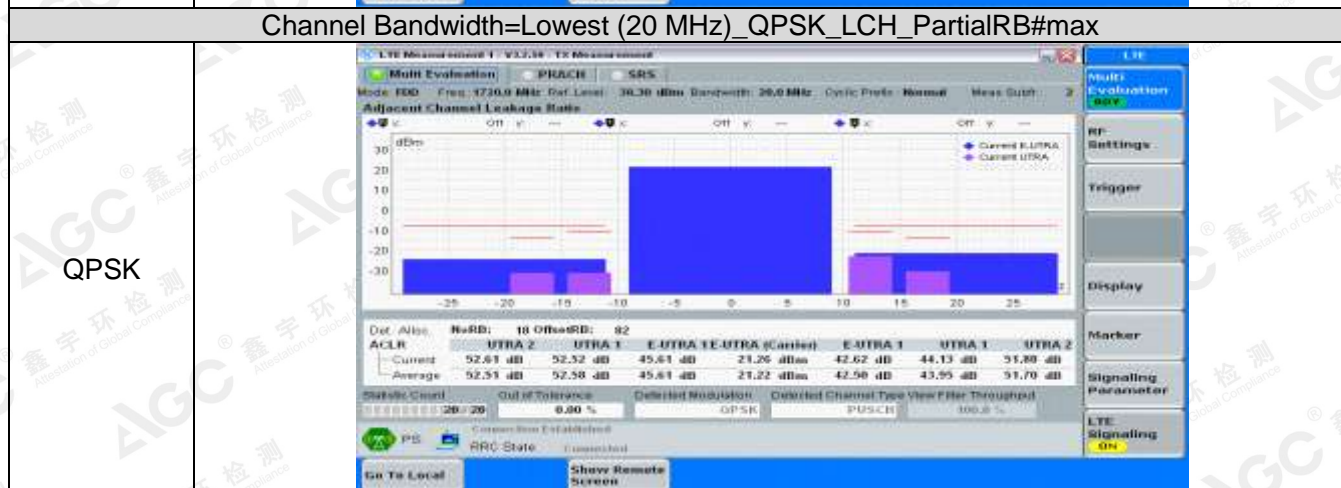
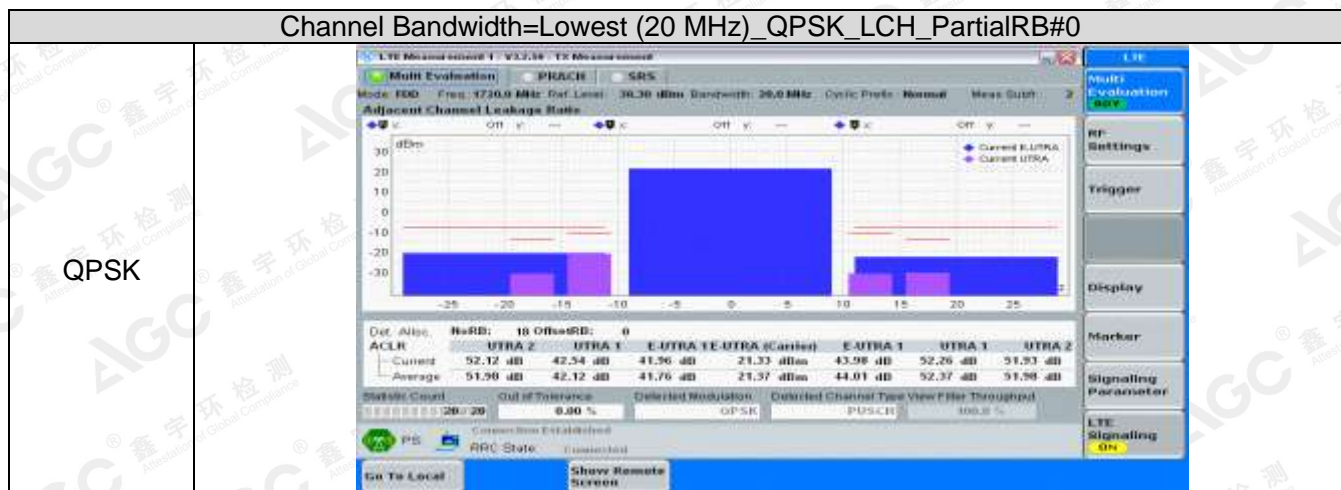
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	


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Channel Bandwidth=Highest (20 MHz)



Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0

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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0</p>

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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullIRB#0</p>
16QAM	

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5. Transmitter Spurious Emissions

Test Result

NTV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass

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			Full	0	PUMAX	Pass
		Mid range	1	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		High range	1	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass

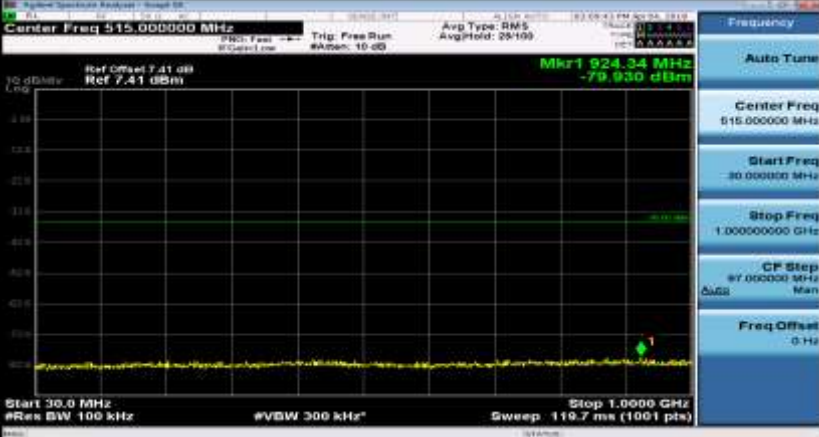
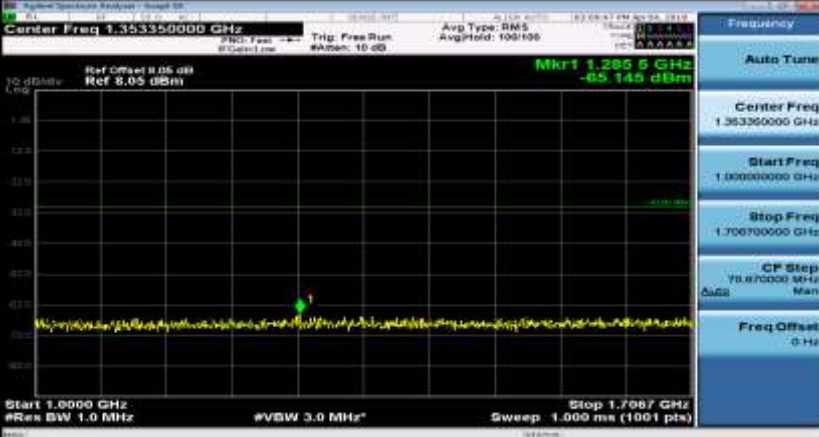

Test Graphs

NTNV

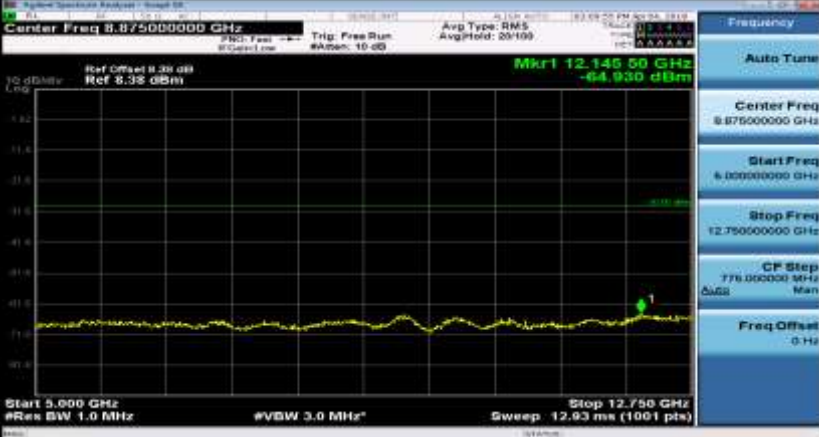
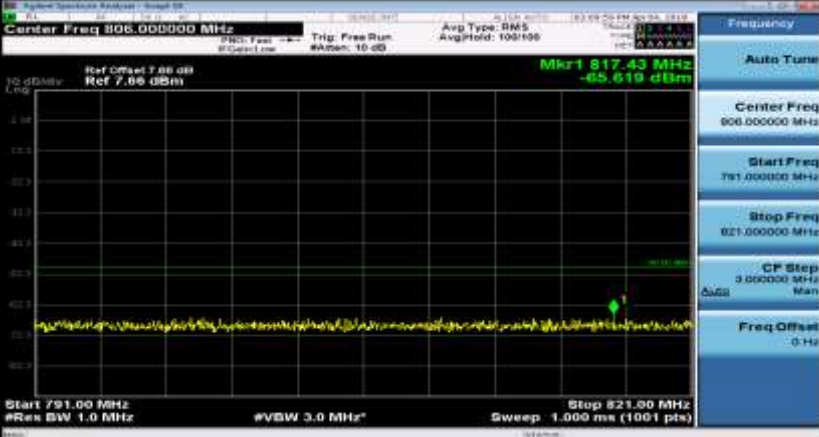
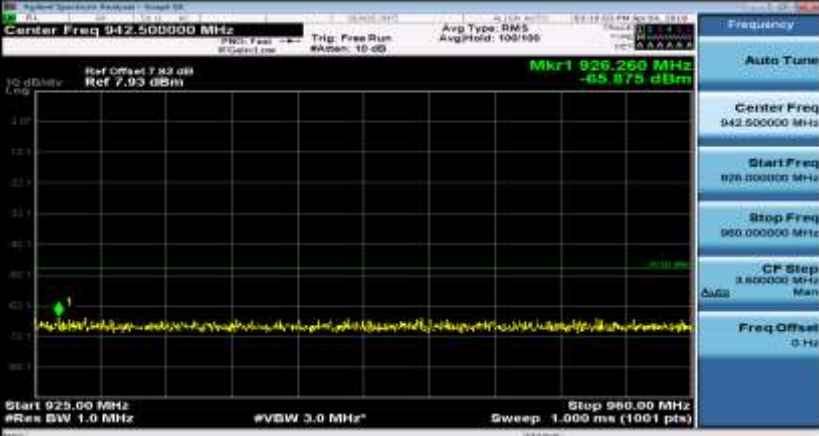
Channel Bandwidth=Lowest (1.4 MHz)



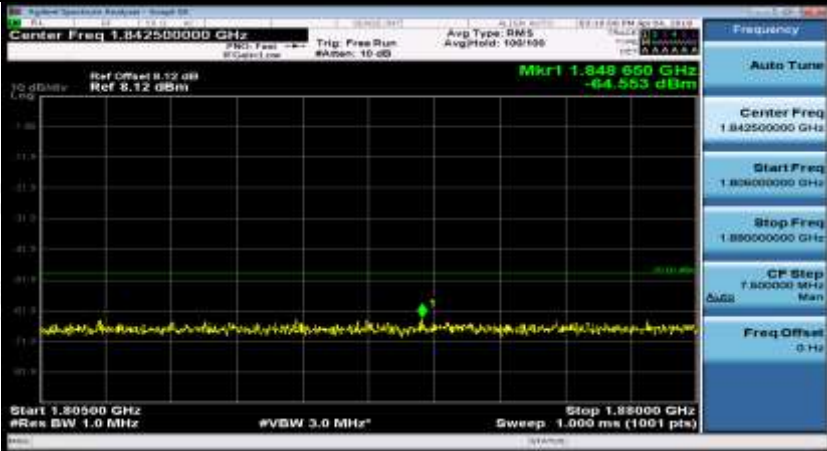
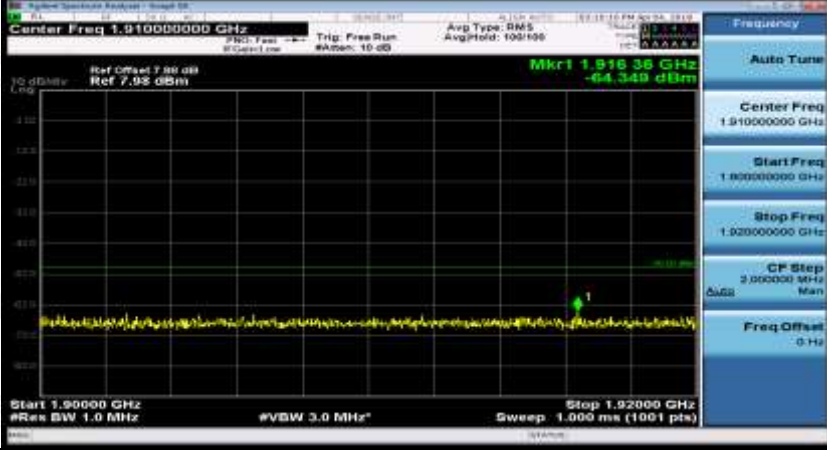
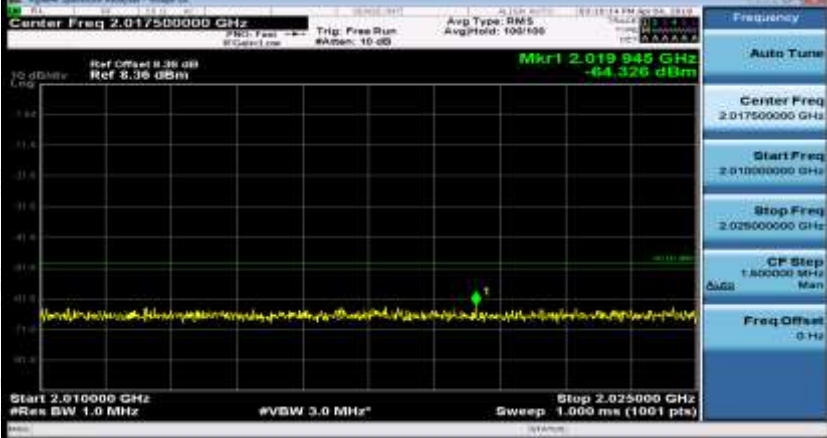
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General			
General			
General			

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General			
Co-existence			
Co-existence			

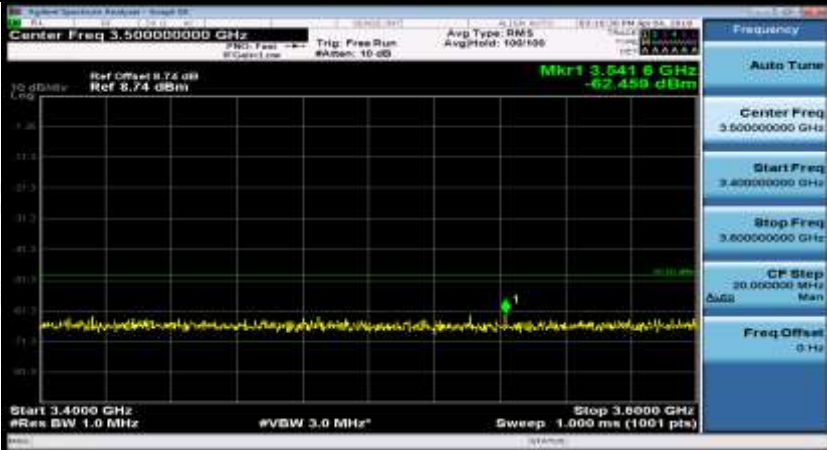

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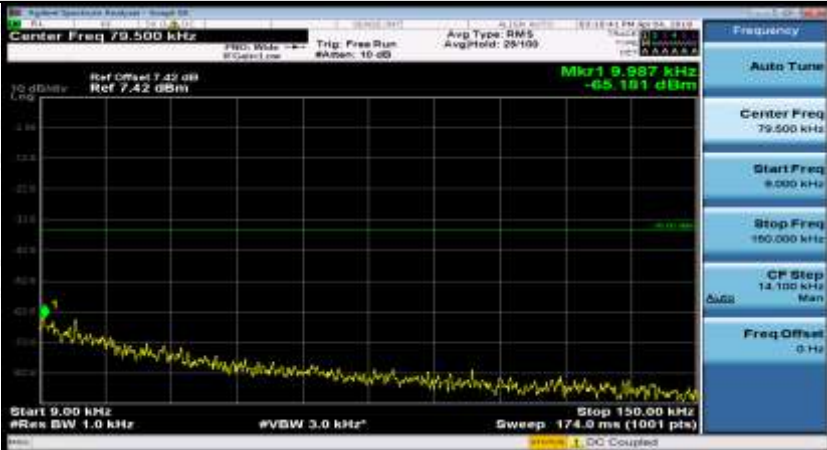
Co-existence	
Co-existence	
Co-existence	

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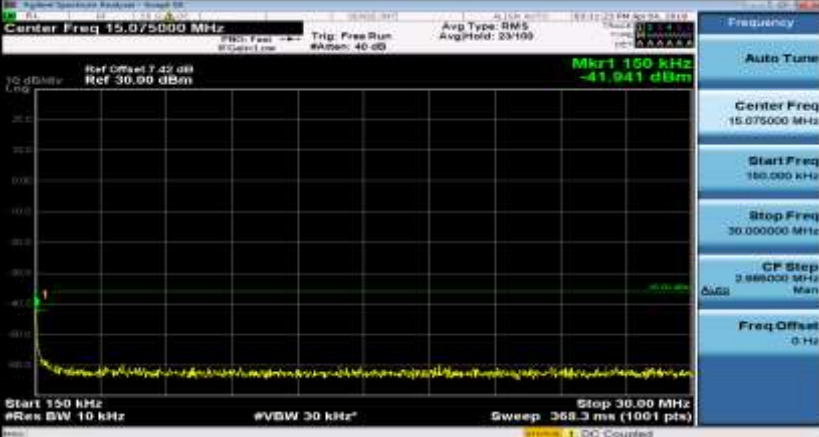
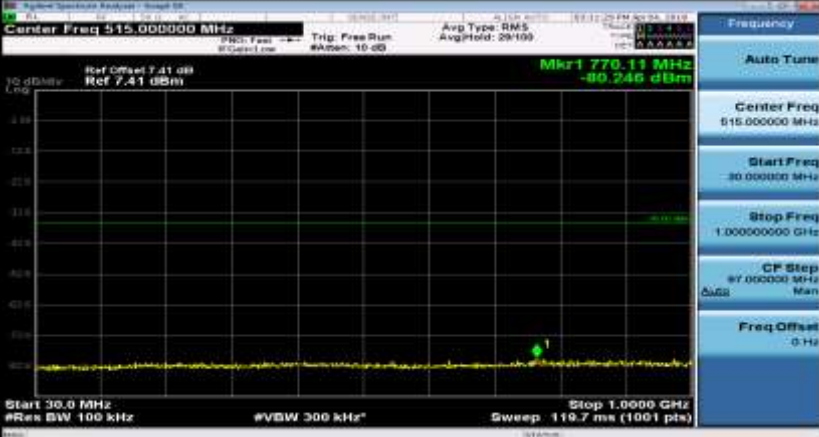
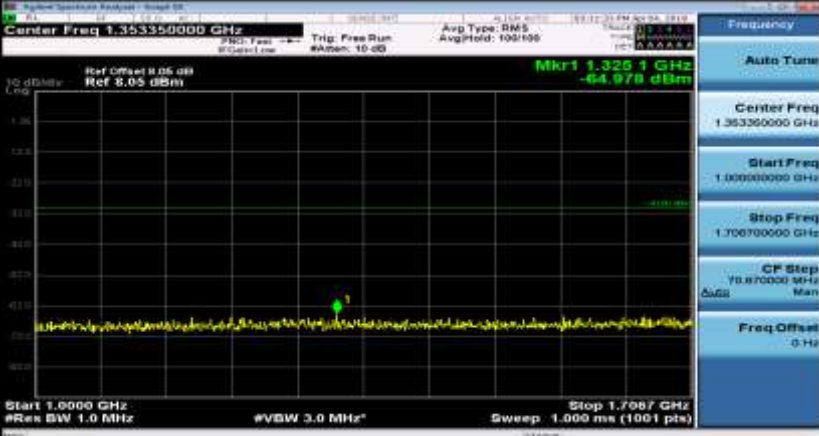
Co-existence	
Co-existence	
Co-existence	

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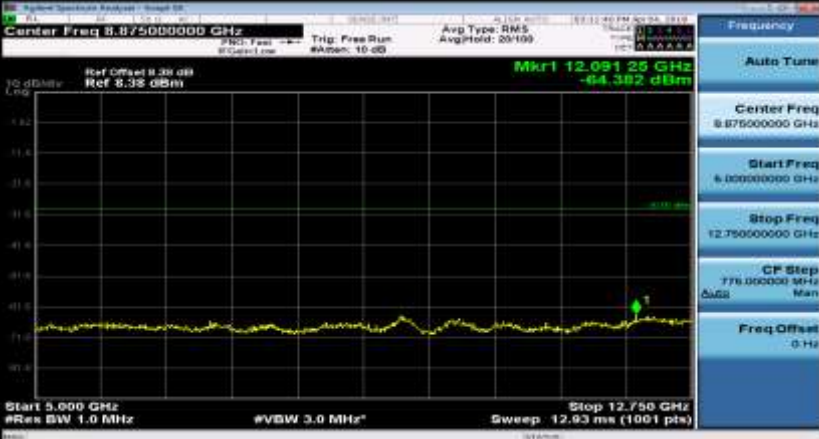
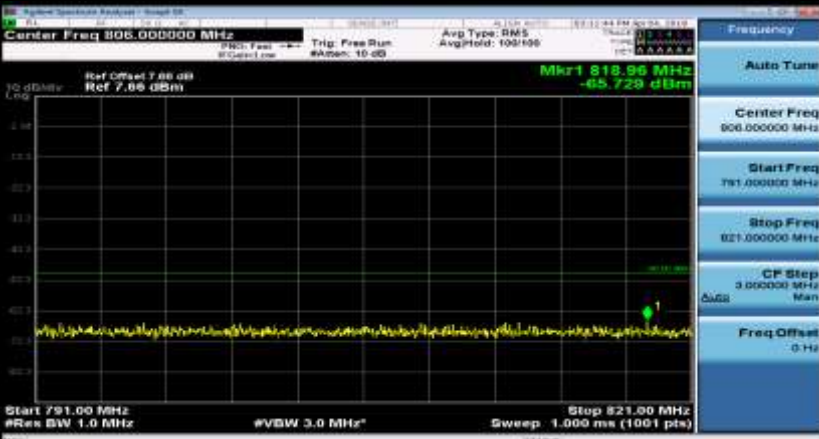
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_1RB#max	
General	

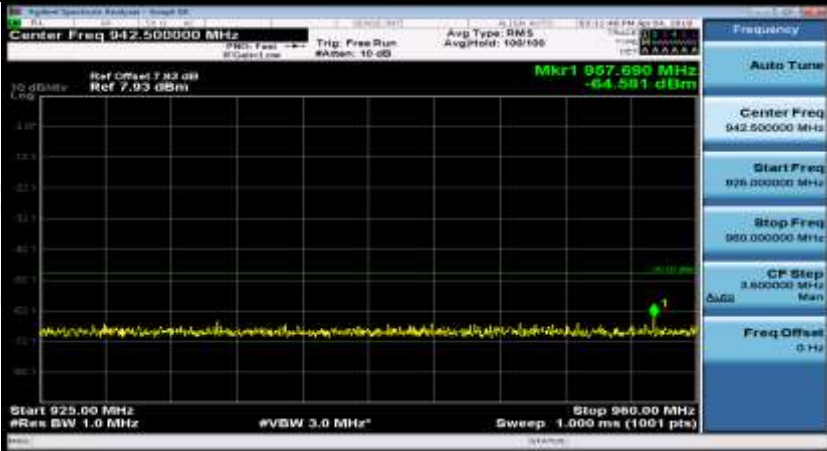
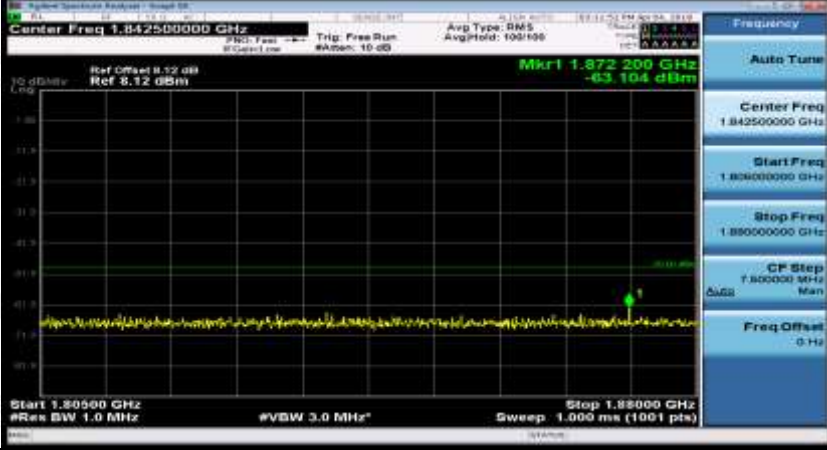
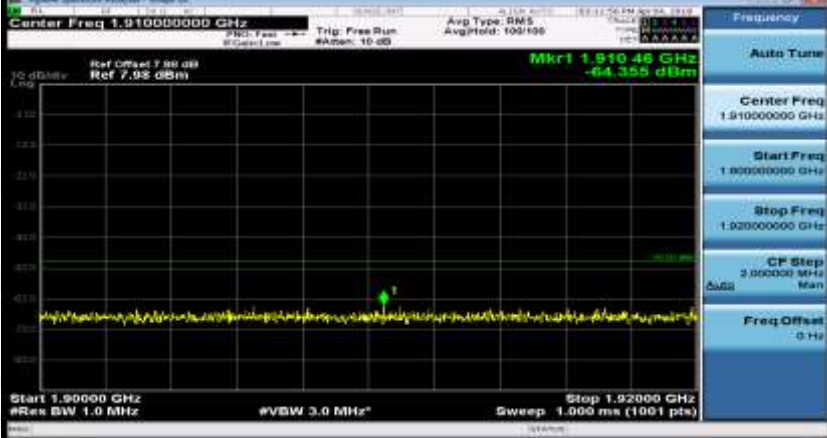
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General			
General			
General			

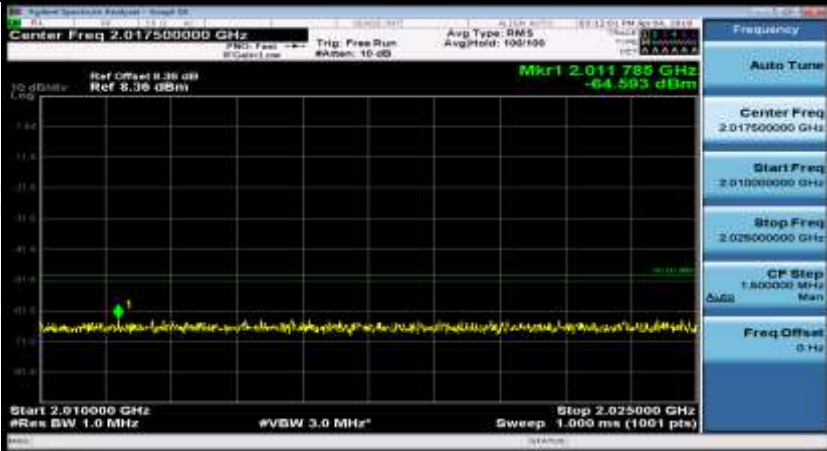
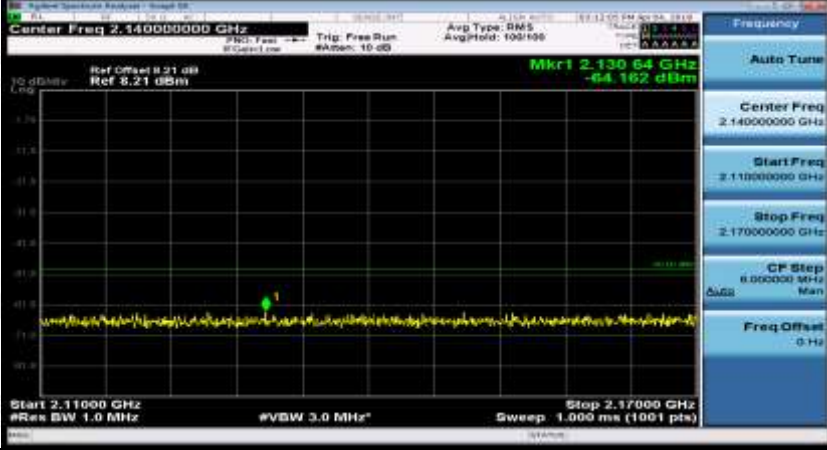
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General			
General			
Co-existence			

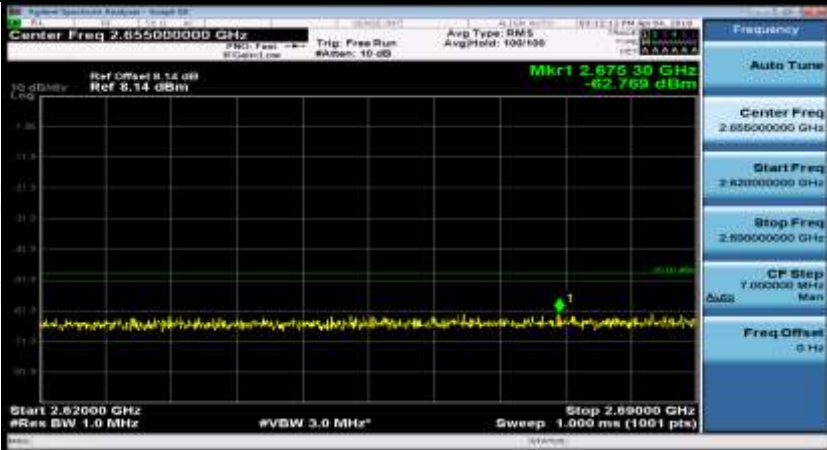


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Co-existence	
Co-existence	
Co-existence	

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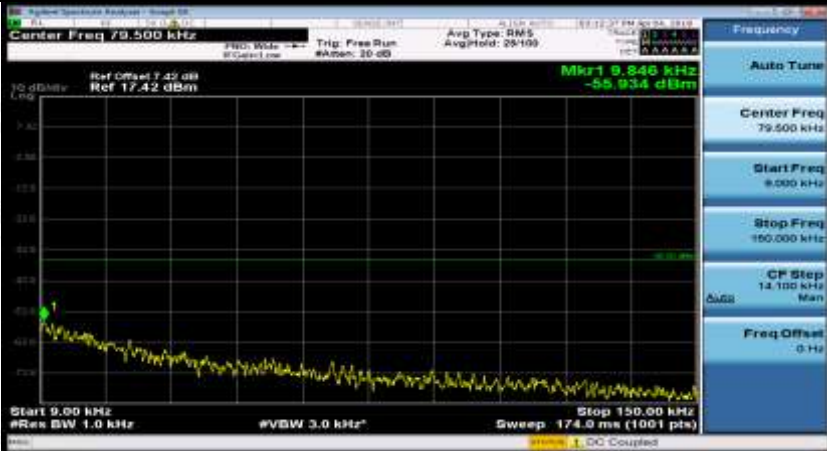
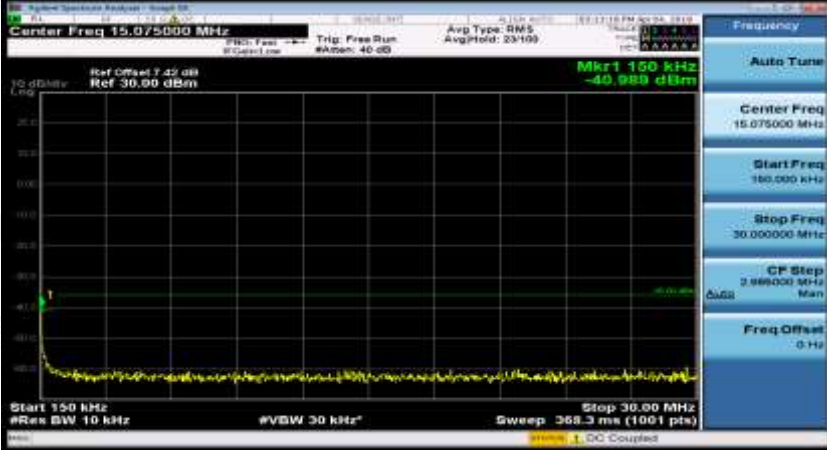
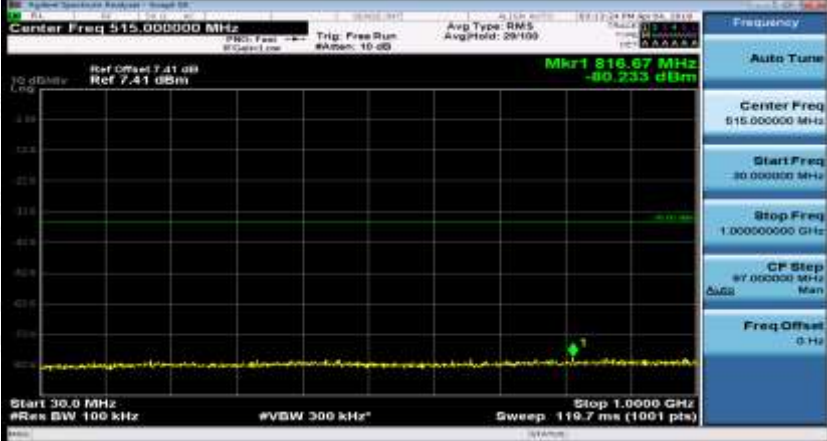
Co-existence	
Co-existence	
Co-existence	

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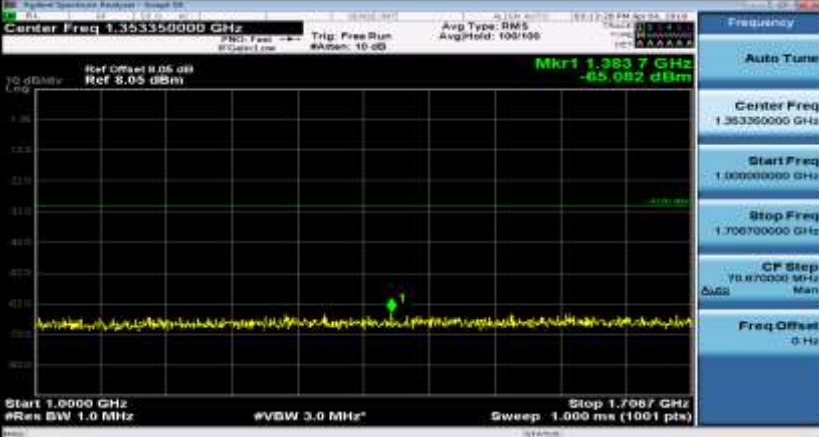


Co-existence	
Co-existence	
Co-existence	
Additional	NA

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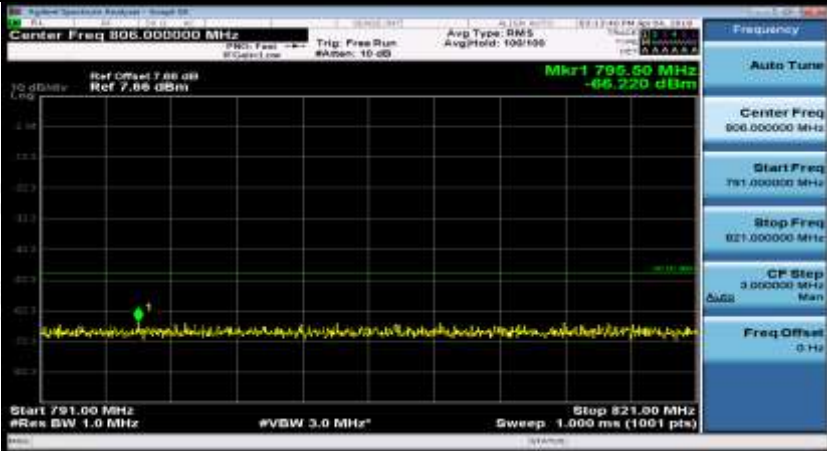
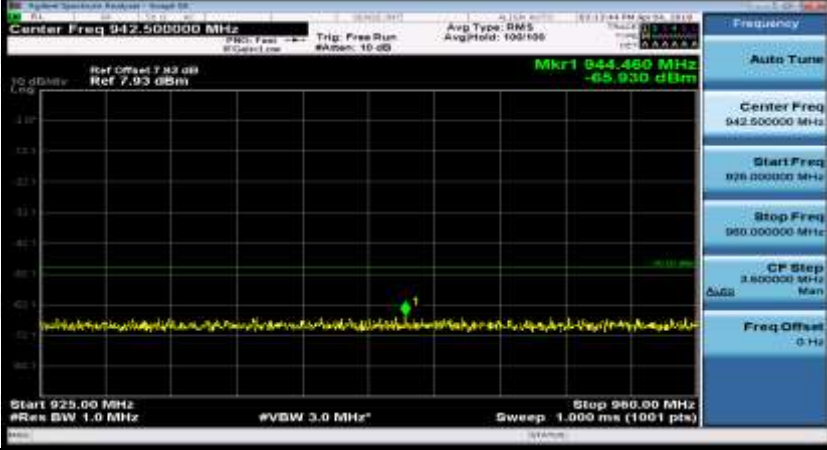
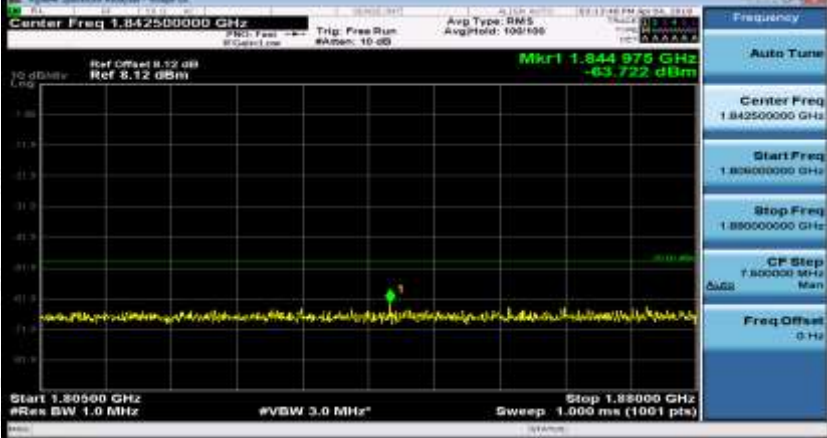
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_FullIRB#0

General	
General	
General	

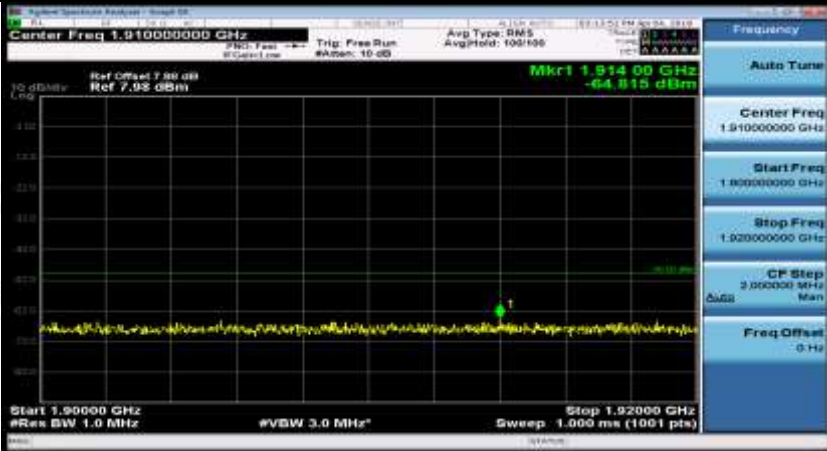
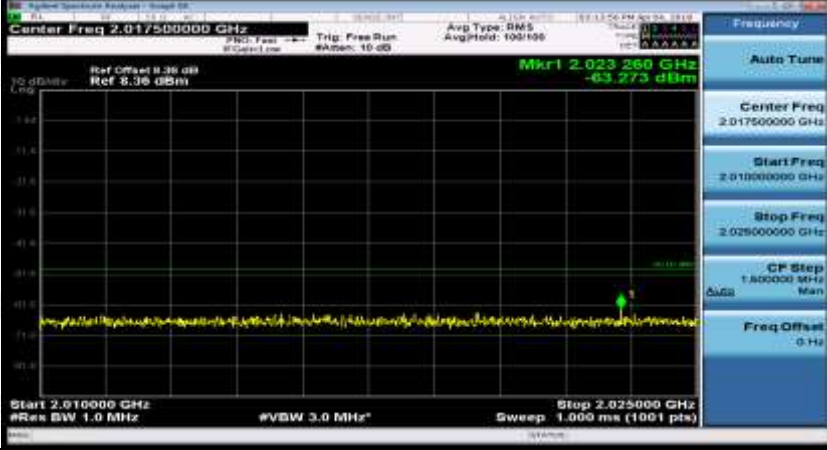
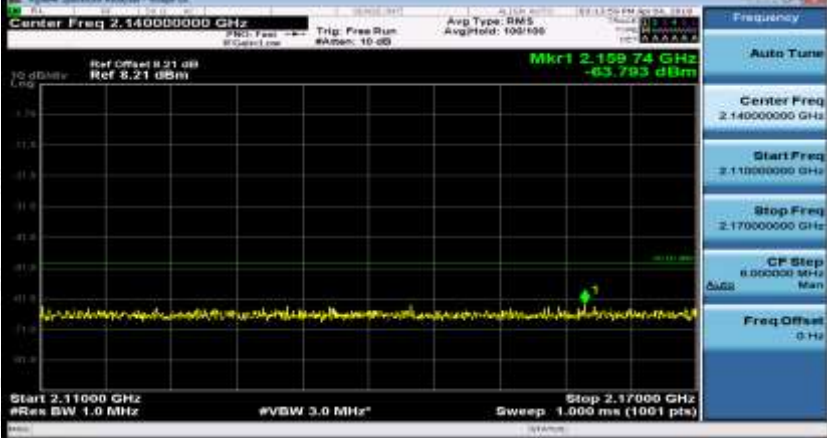
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General			
General			
General			

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Co-existence	
Co-existence	
Co-existence	

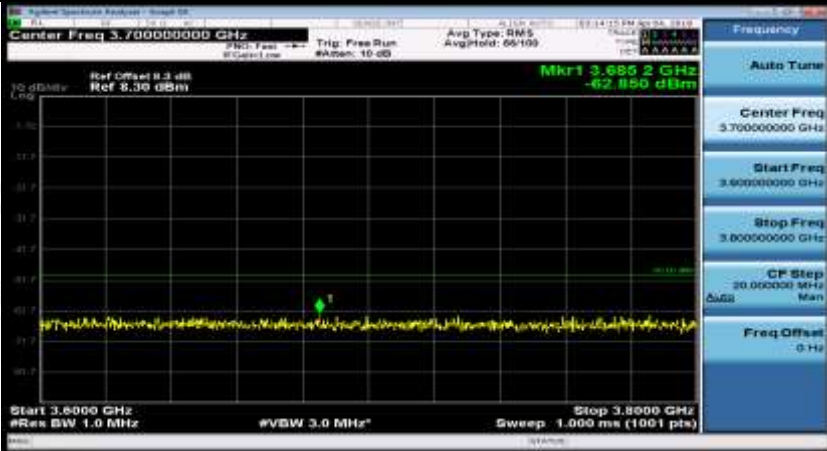
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

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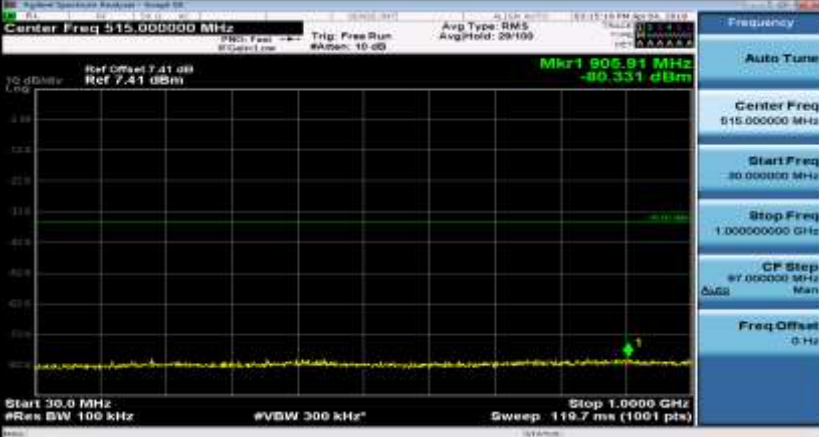
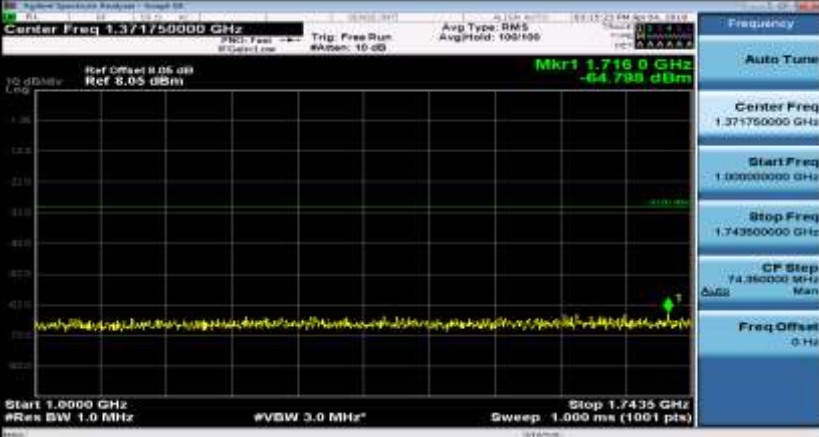

Co-existence	
Co-existence	
Co-existence	

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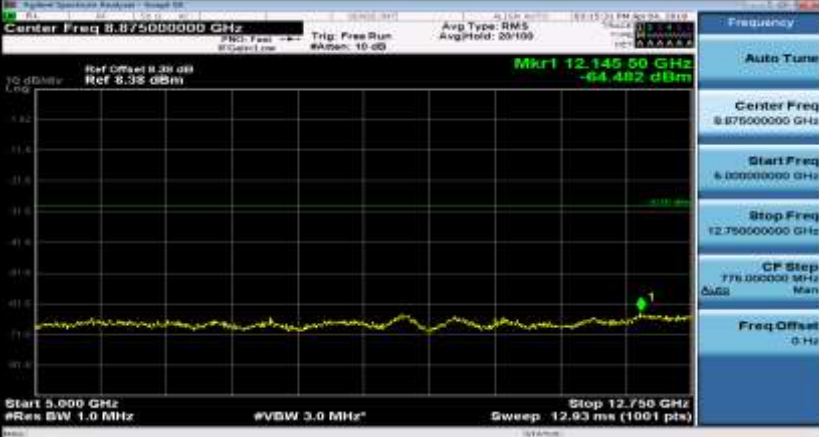
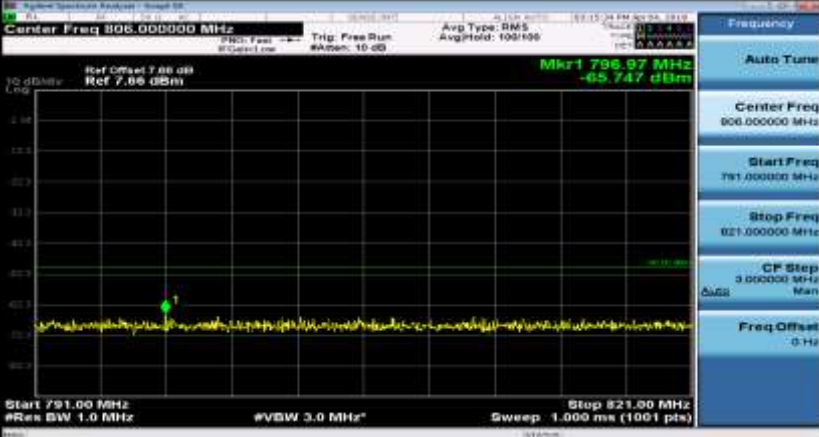
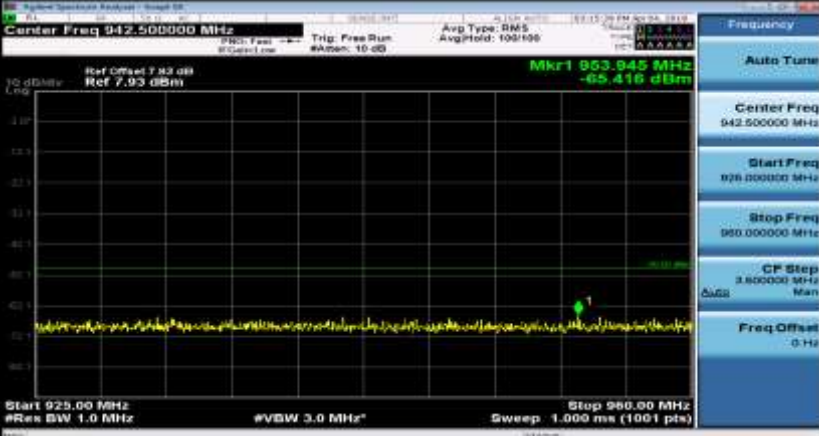
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_1RB#0	
General	
General	

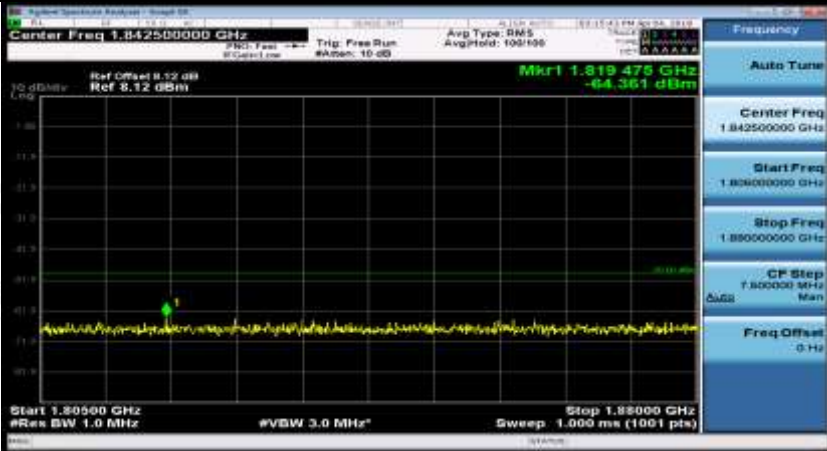
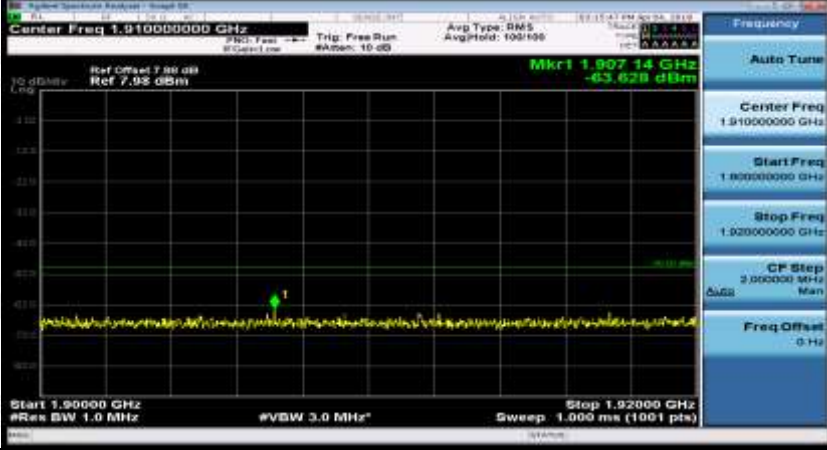
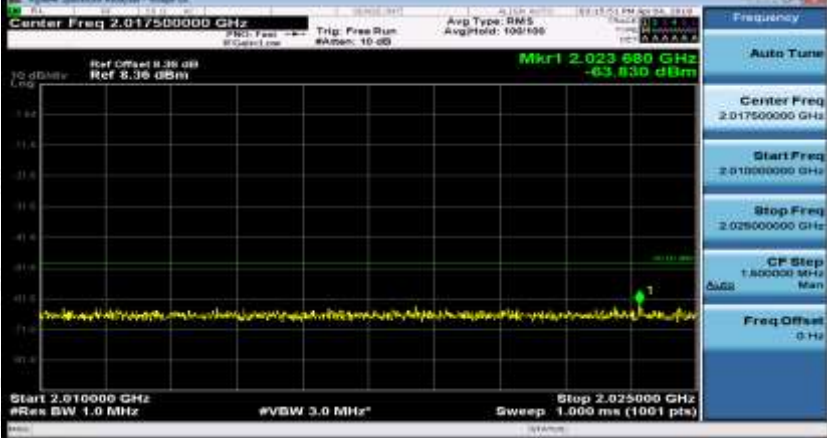
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General			
General			
General			

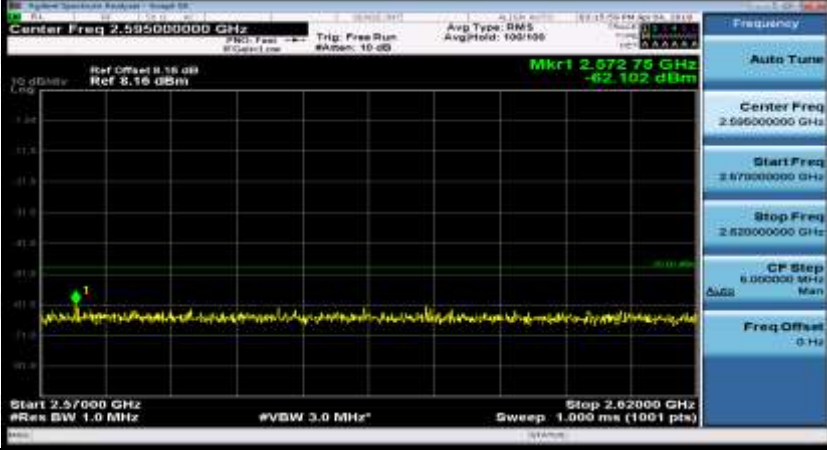
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General			
Co-existence			
Co-existence			

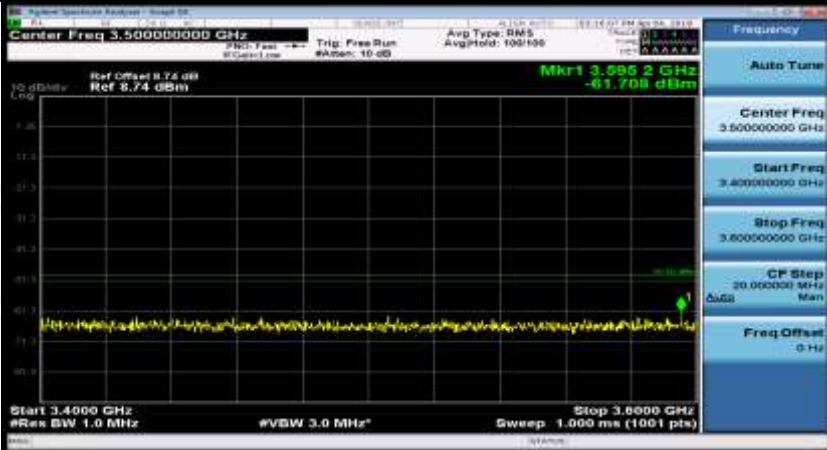
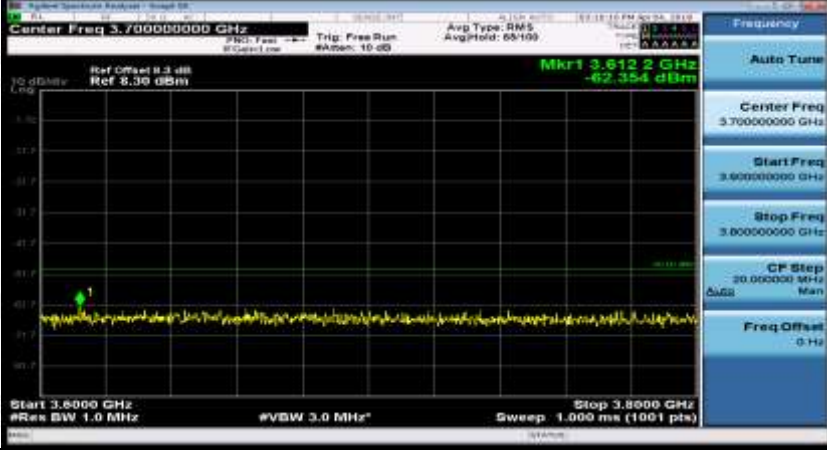
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Co-existence	
Co-existence	
Co-existence	

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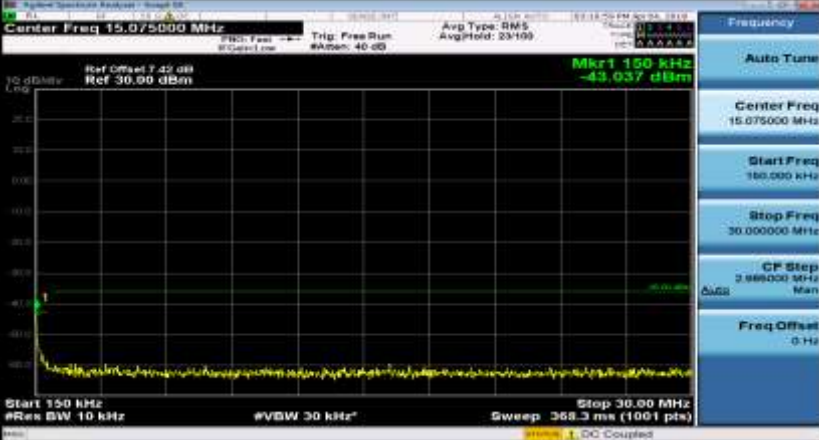
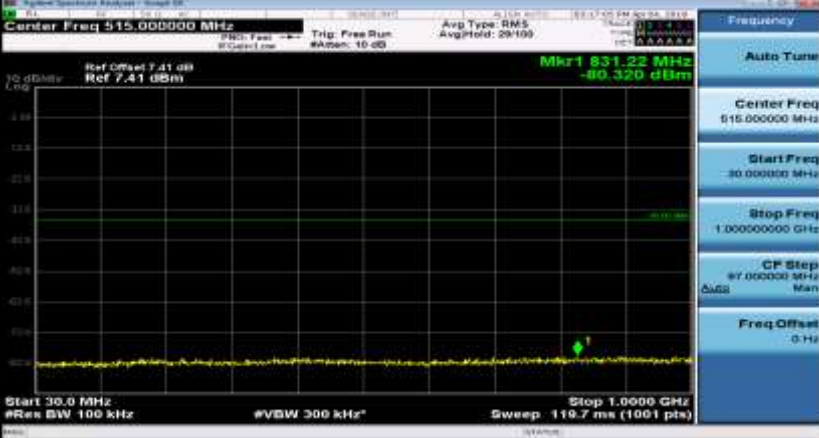
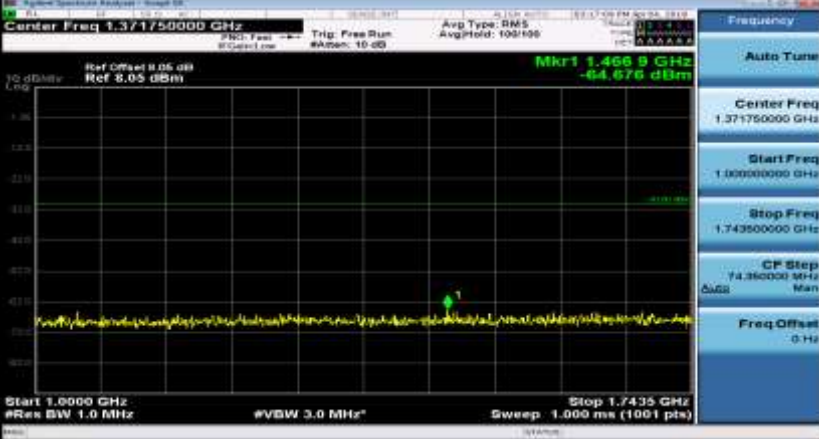
Co-existence	
Co-existence	
Co-existence	

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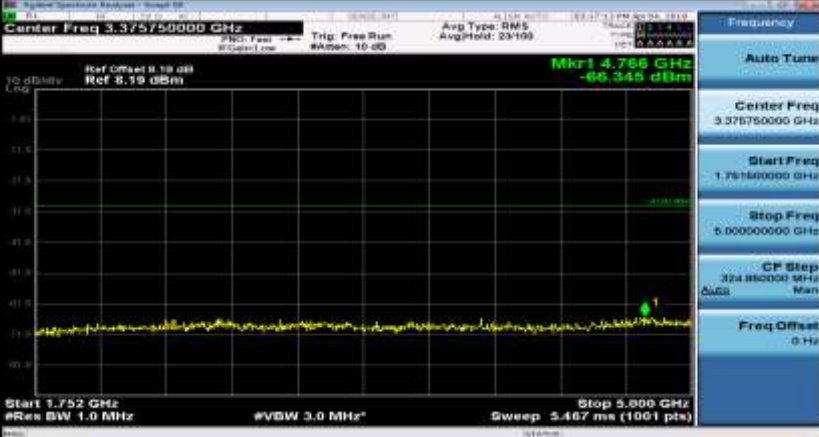
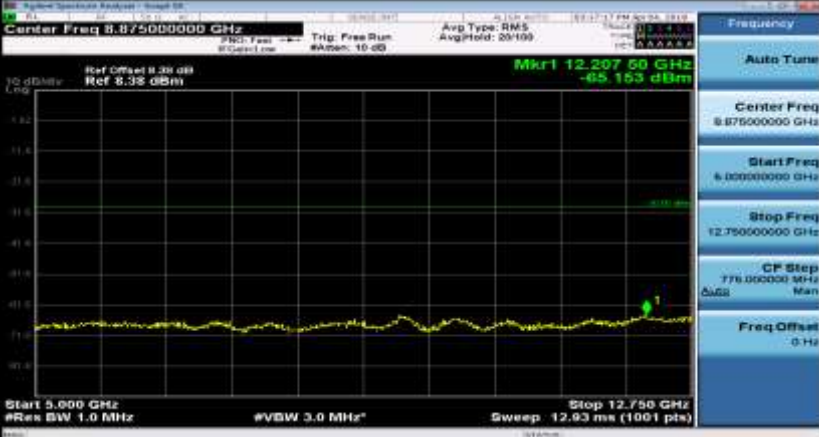
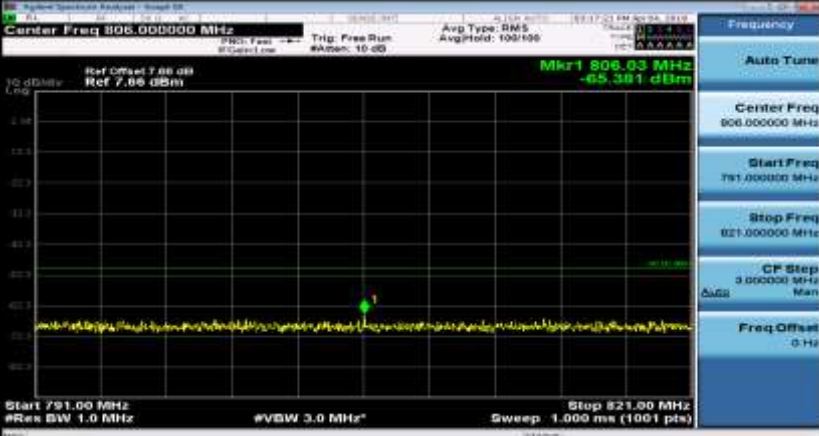
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_1RB#max	
General	

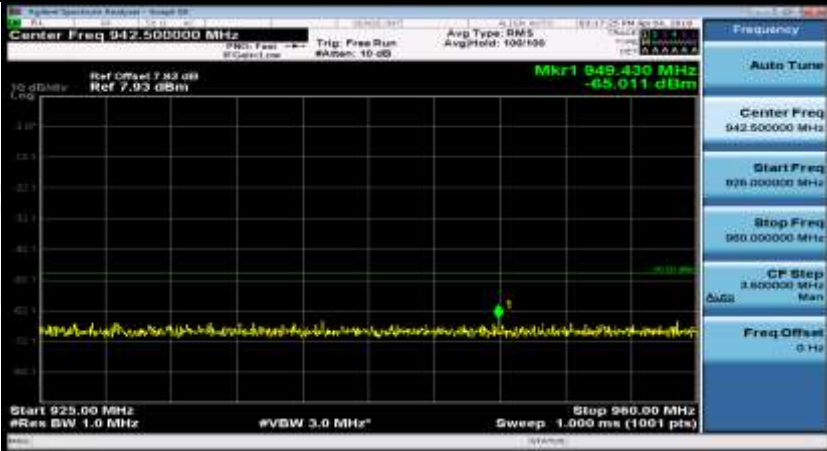
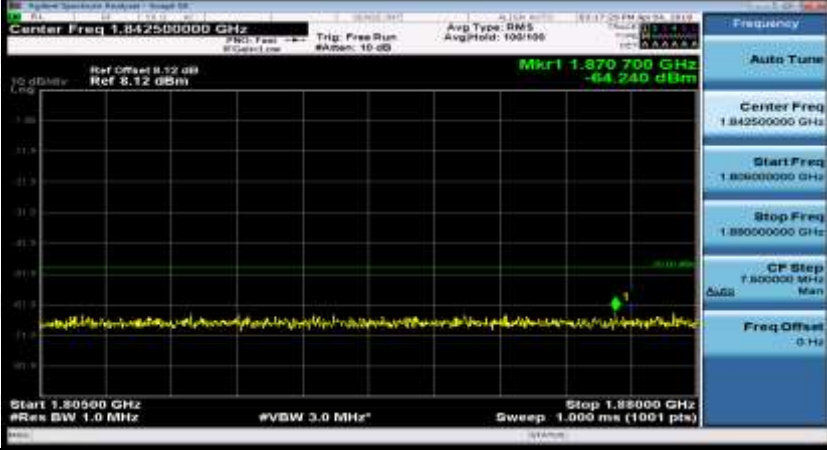
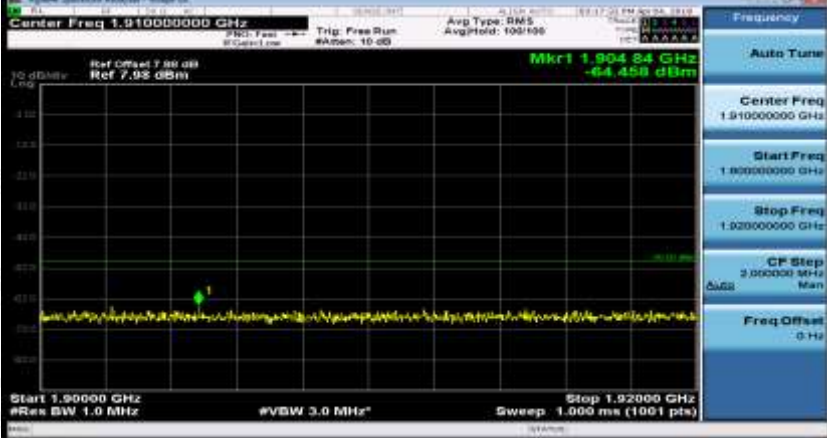
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General			
General			
General			


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General			
General			
Co-existence			

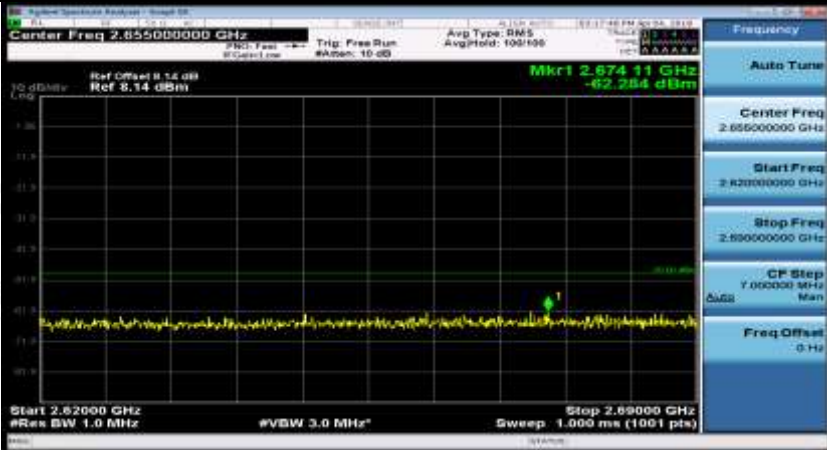
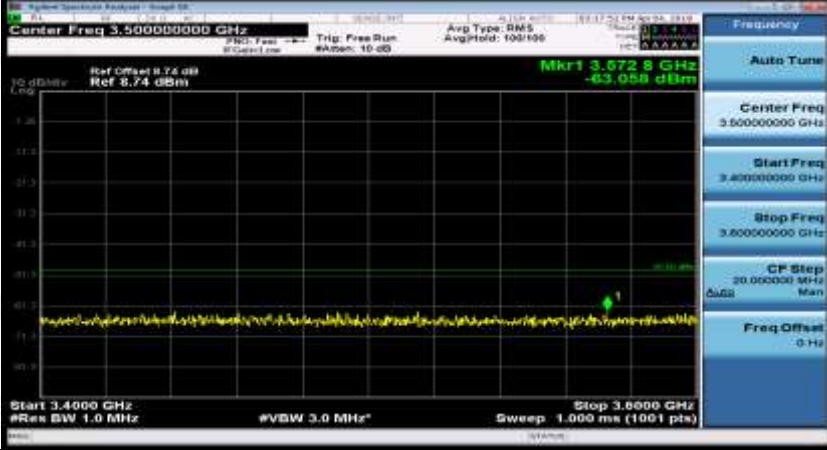

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Co-existence	
Co-existence	
Co-existence	

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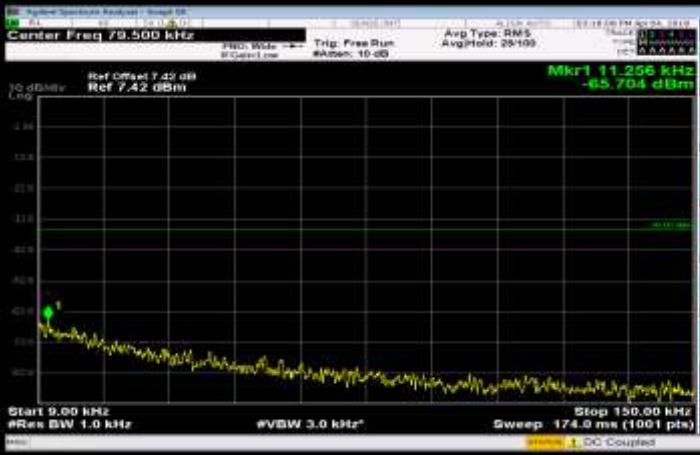
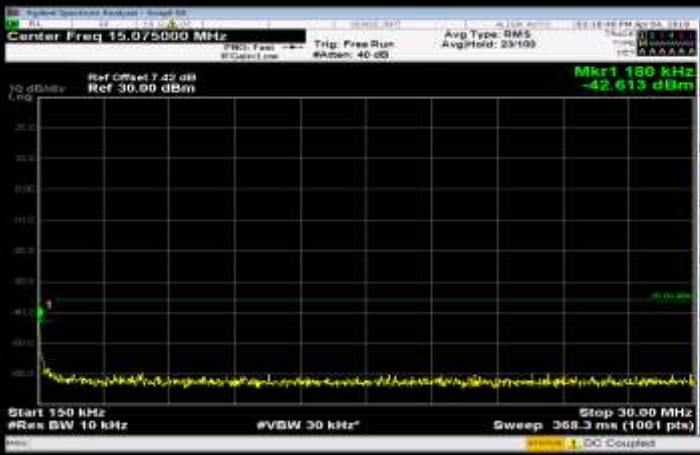
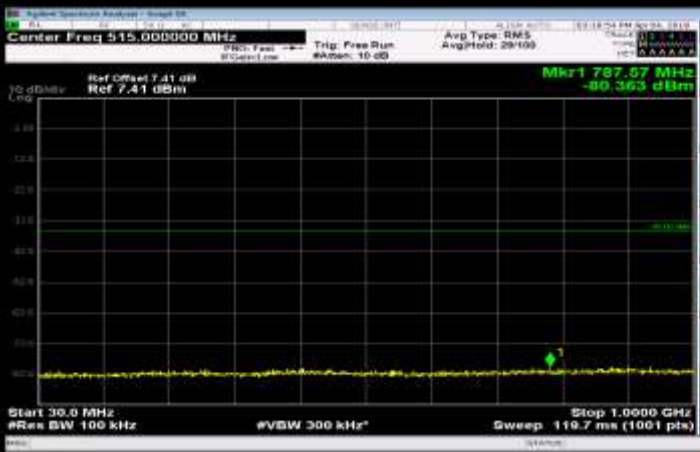
Co-existence	
Co-existence	
Co-existence	

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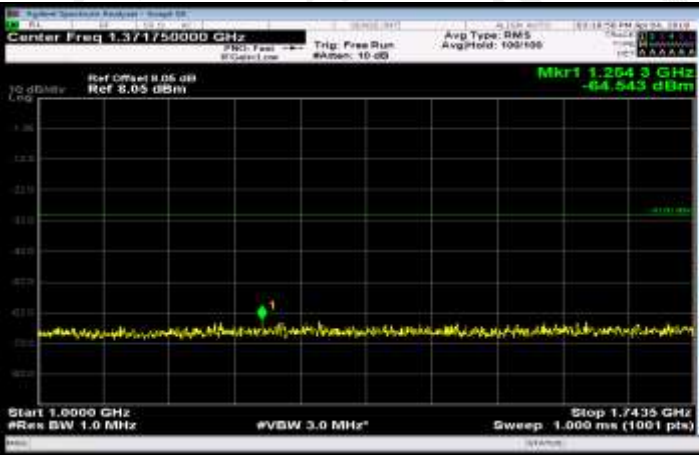

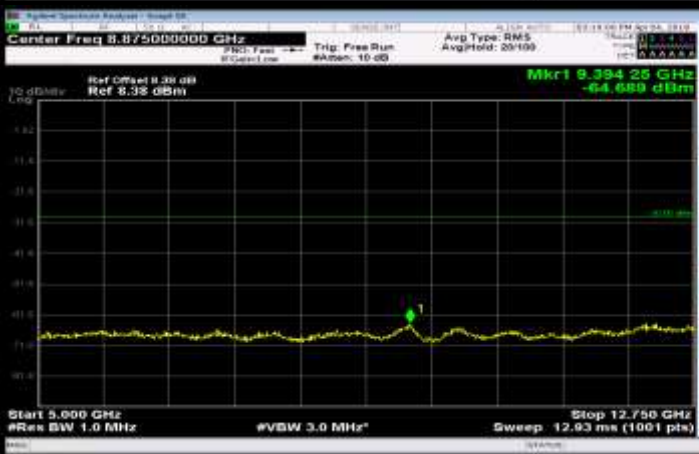
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_FullRB#0

General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 79.500 kHz</p> <p>Start Freq 0.000 kHz</p> <p>Stop Freq 150.000 kHz</p> <p>CF Step 14.100 kHz Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 15.075000 MHz</p> <p>Start Freq 180.000 kHz</p> <p>Stop Freq 30.000000 MHz</p> <p>CF Step 2.988000 MHz Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.00000000 GHz</p> <p>CF Step 97.000000 MHz Man</p> <p>Freq Offset 0 Hz</p>

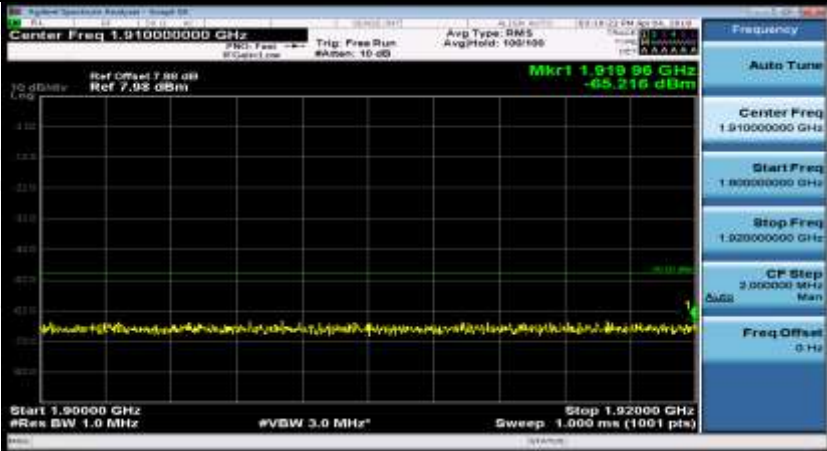
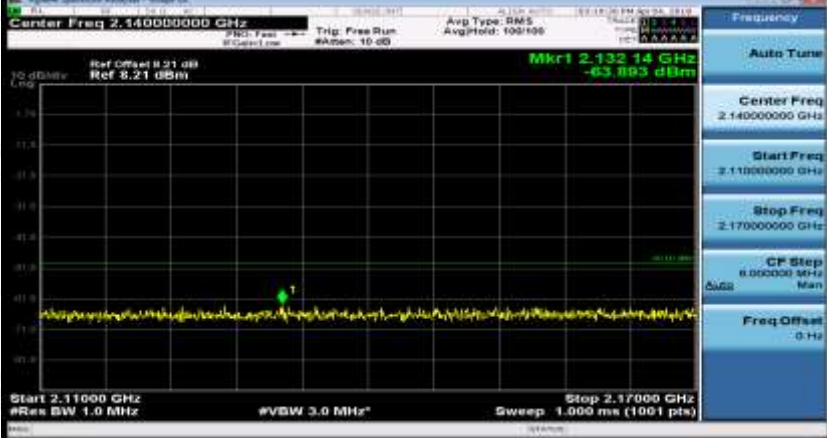
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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 1.371750000 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 1.743500000 GHz</p> <p>CF Step 74.350000 MHz</p> <p>ΔdBs Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.375750000 GHz</p> <p>Start Freq 1.751500000 GHz</p> <p>Stop Freq 5.000000000 GHz</p> <p>CF Step 324.850000 MHz</p> <p>ΔdBs Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.875000000 GHz</p> <p>Start Freq 6.000000000 GHz</p> <p>Stop Freq 12.750000000 GHz</p> <p>CF Step 776.000000 MHz</p> <p>ΔdBs Man</p> <p>Freq Offset 0 Hz</p>

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Co-existence	
Co-existence	
Co-existence	

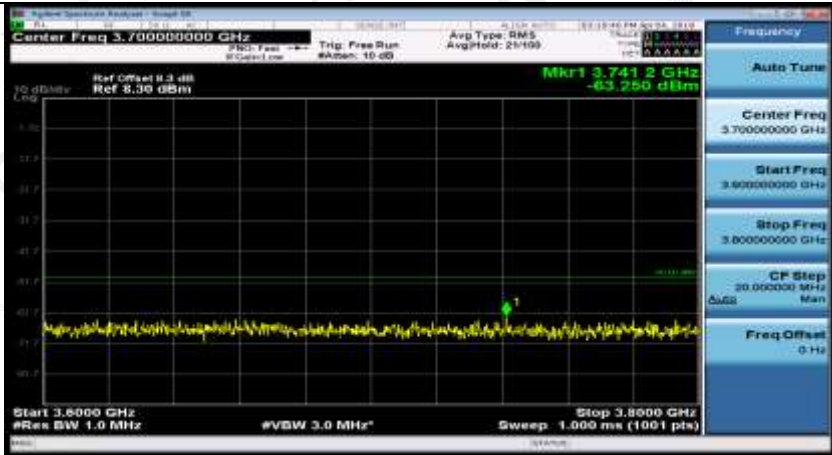
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

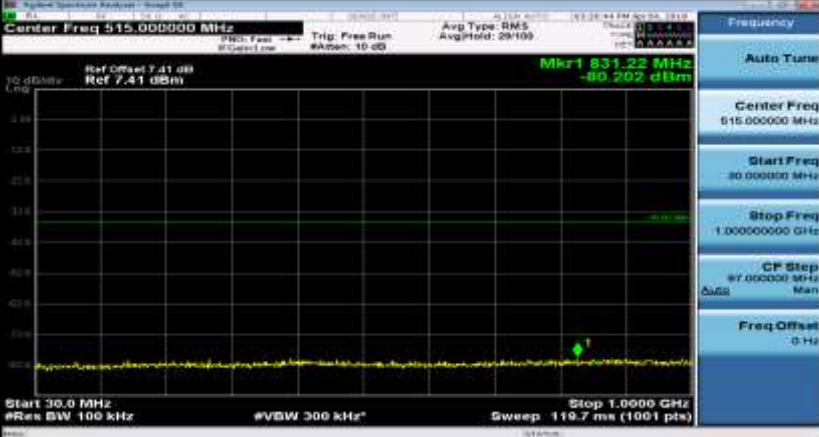
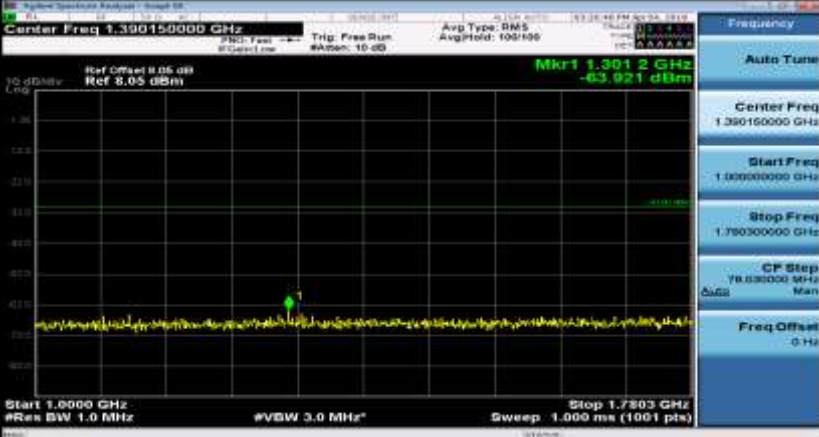

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Co-existence	
Additional	NA


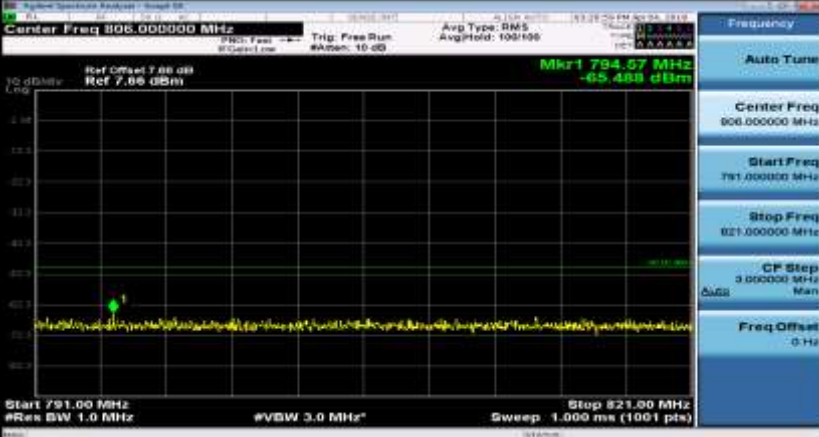
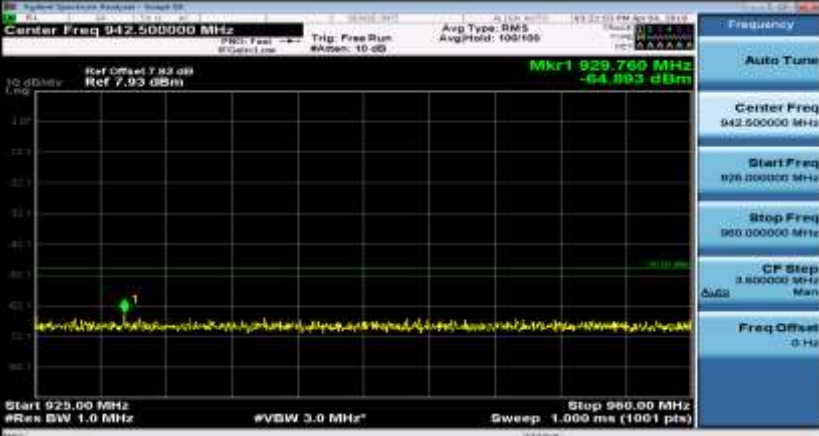
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_1RB#0

General	
General	

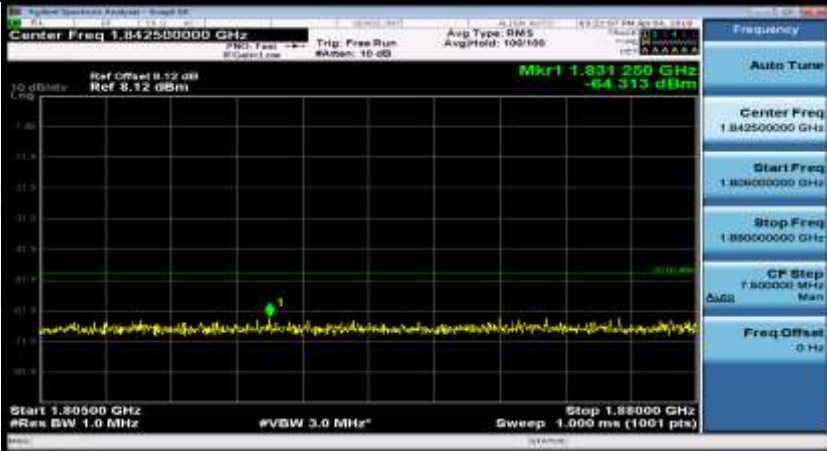
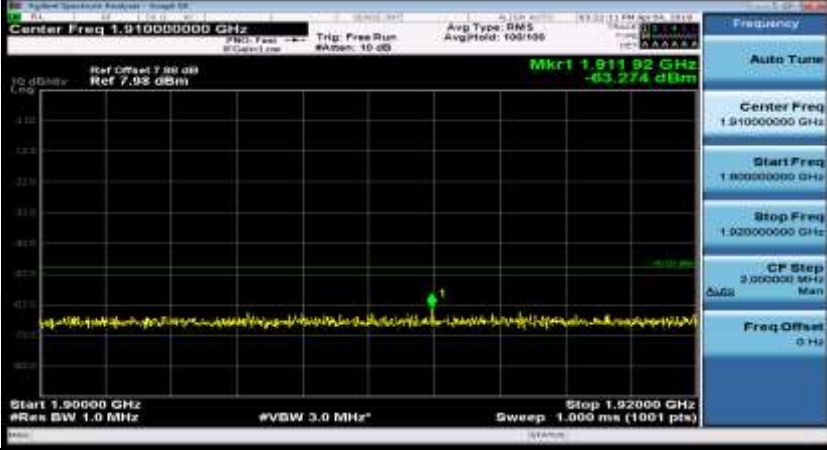
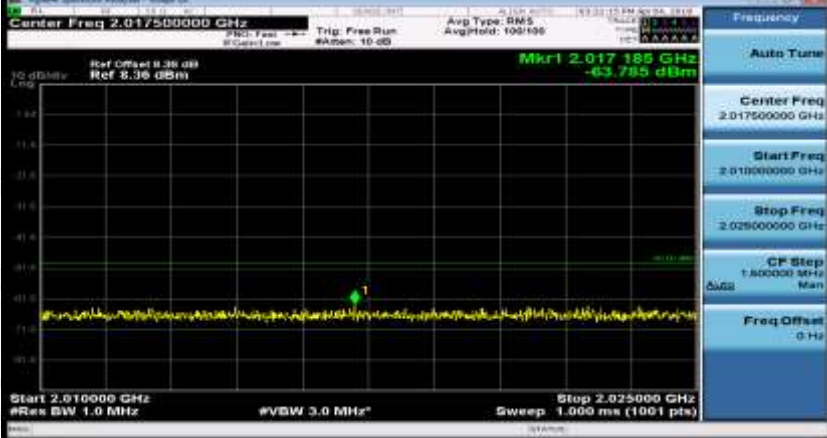
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General			
General			
General			

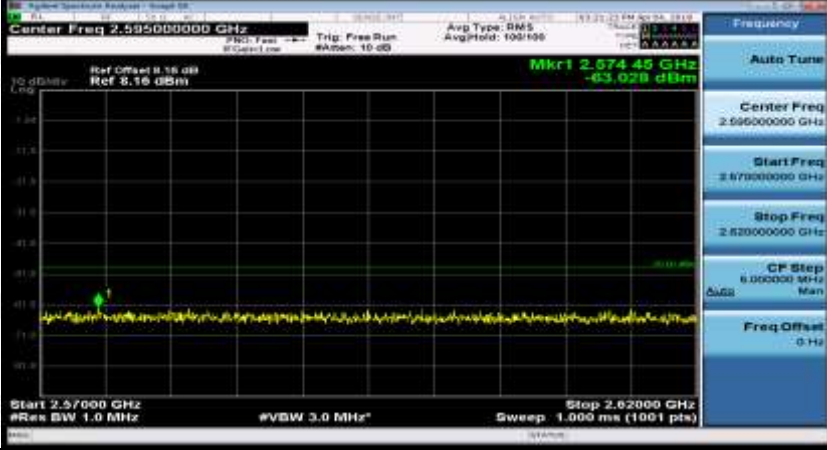

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General		 <p>Center Freq 8.87500000 GHz Ref Offset 8.35 dB Ref 8.35 dBm Mkr1 8.824 50 GHz -64.724 dBm Start 5.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 12.93 ms (1001 pts)</p>	
Co-existence		 <p>Center Freq 806.000000 MHz Ref Offset 7.88 dB Ref 7.88 dBm Mkr1 794.57 MHz -65.488 dBm Start 791.00 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)</p>	
Co-existence		 <p>Center Freq 942.500000 MHz Ref Offset 7.93 dB Ref 7.93 dBm Mkr1 929.760 MHz -64.893 dBm Start 925.00 MHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)</p>	

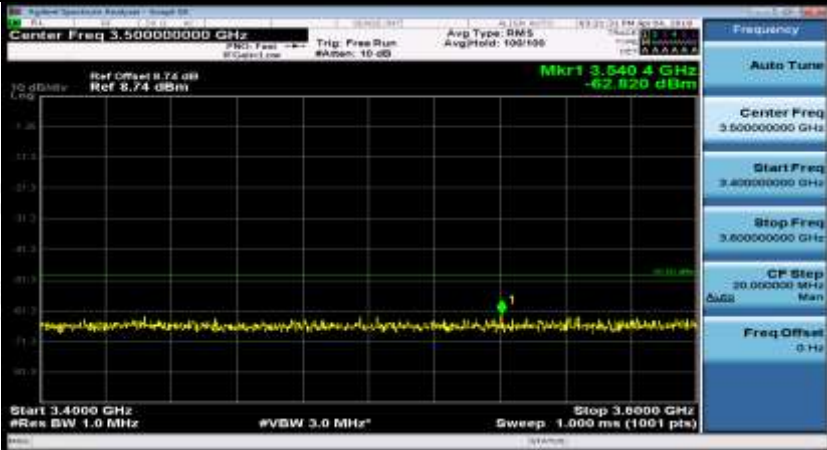
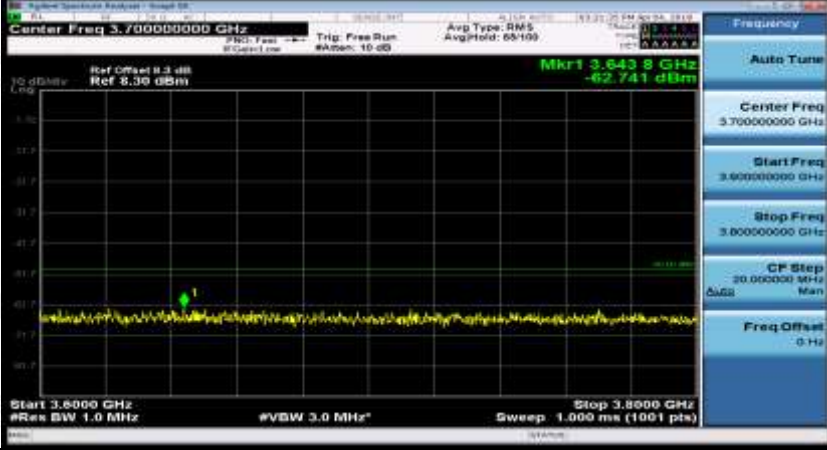
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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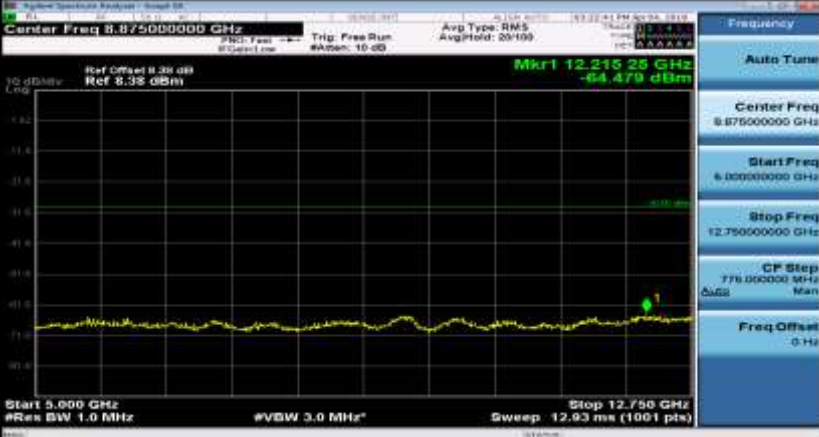
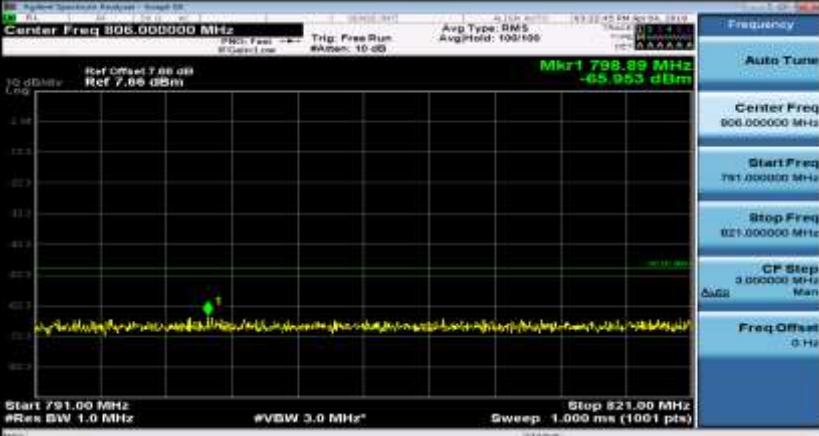
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_1RB#max	
General	

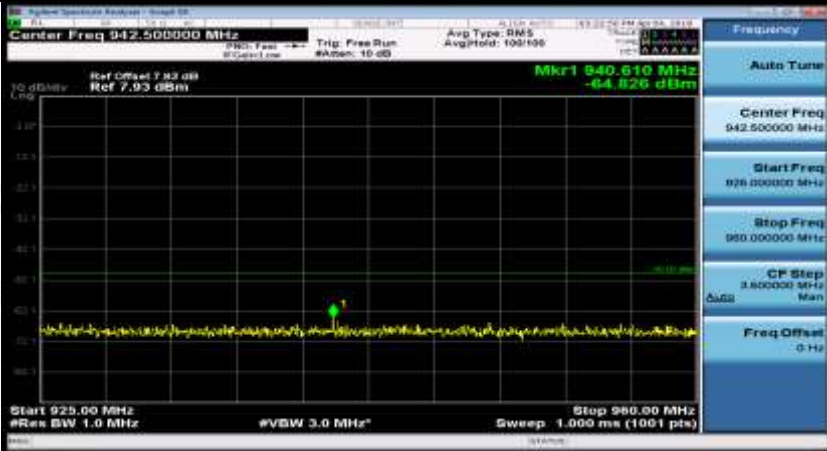
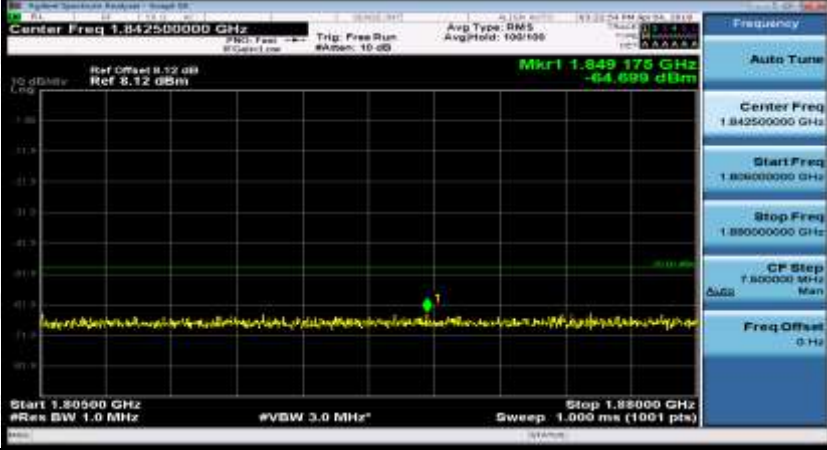
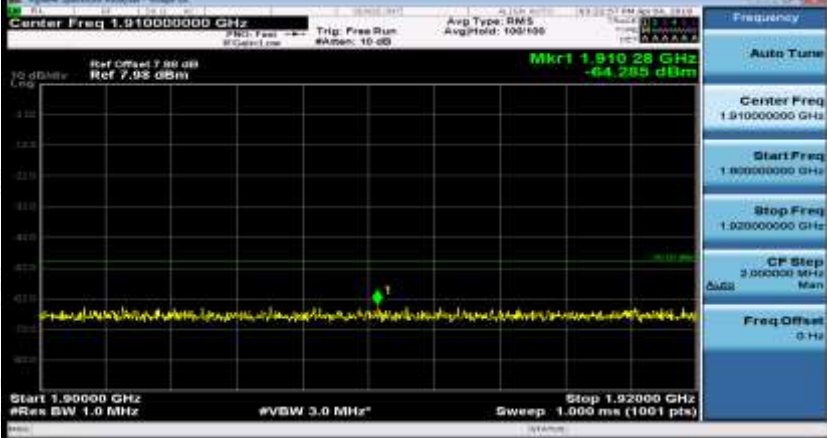
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General			
General			
General			

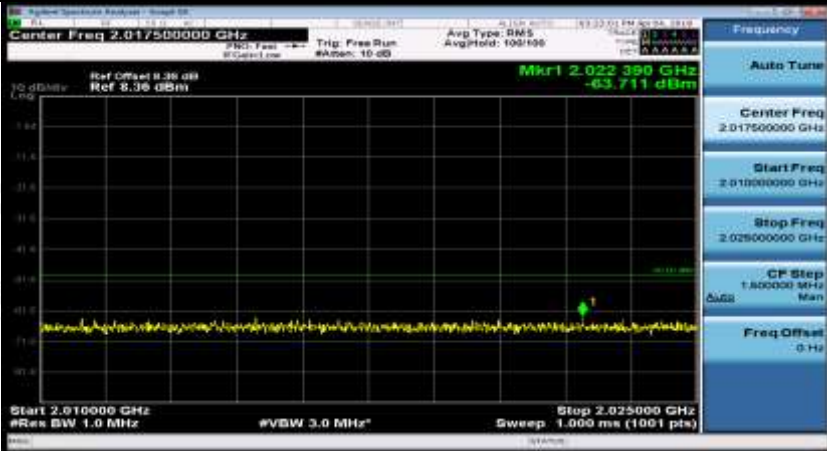
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General			
General			
Co-existence			


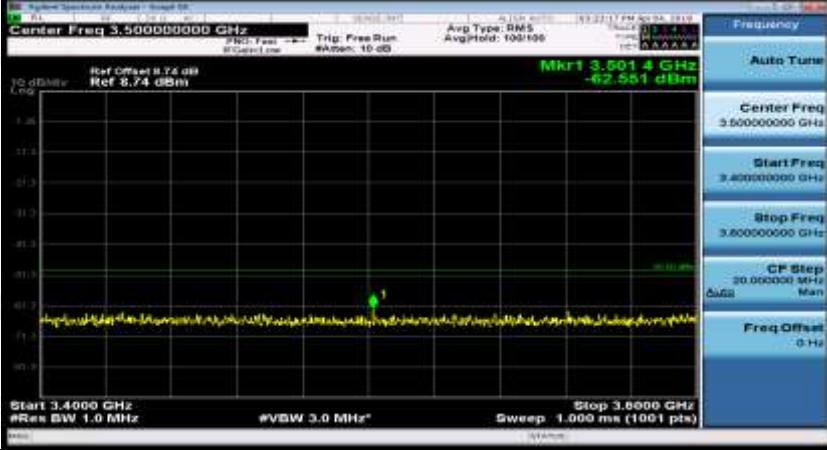

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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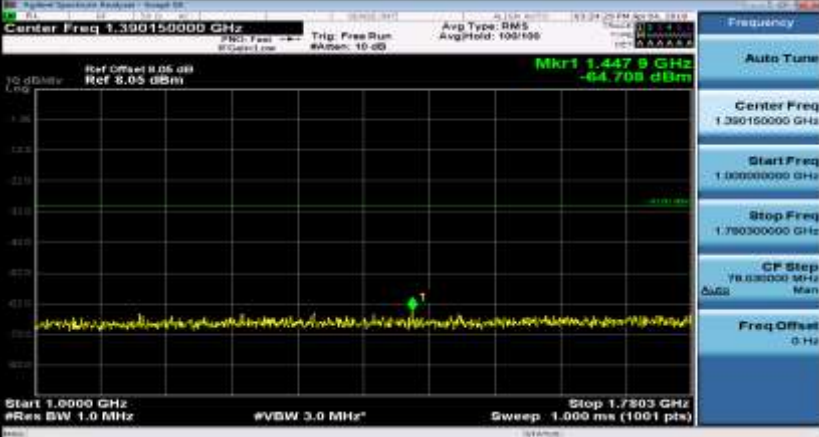


Co-existence	
Co-existence	
Co-existence	
Additional	NA

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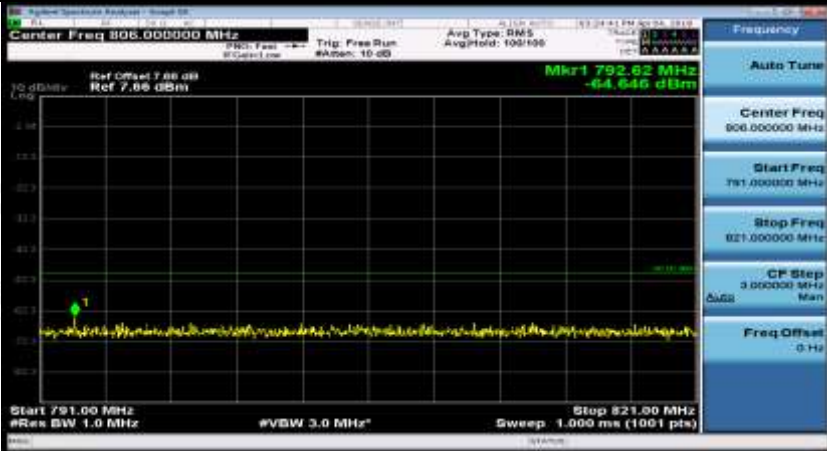
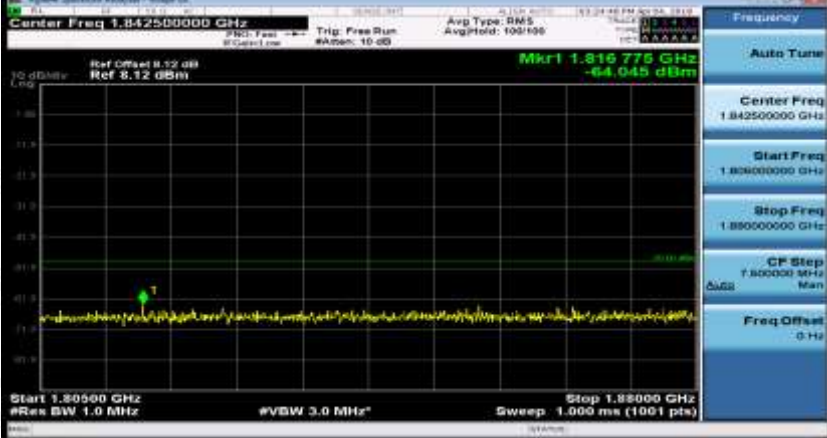
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_FullIRB#0

General	
General	
General	

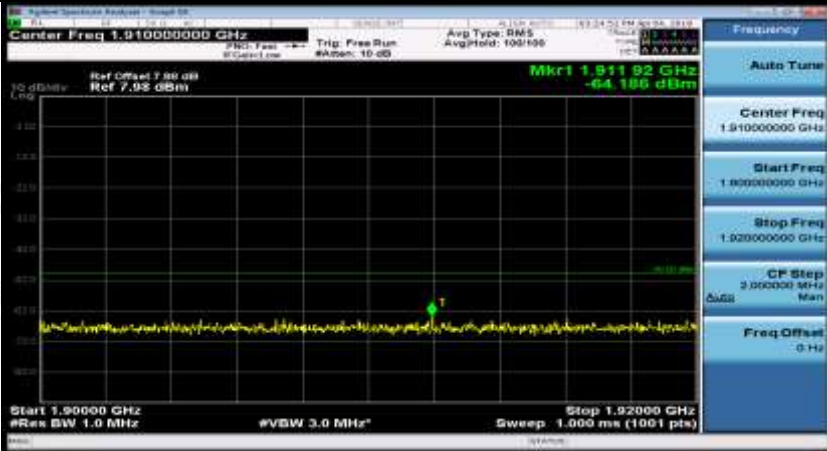
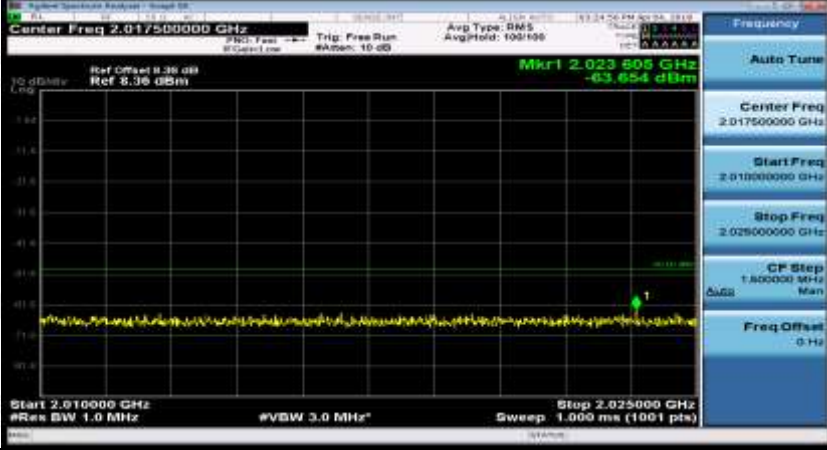

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General			
General			
General			

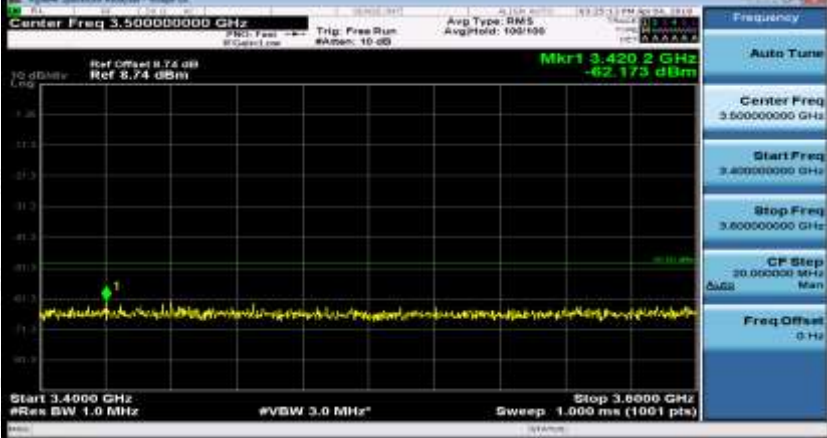
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

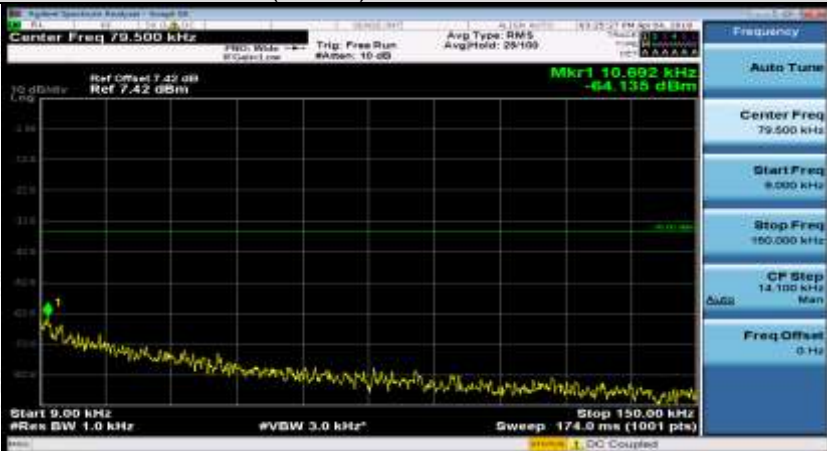
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Co-existence	
Co-existence	
Co-existence	

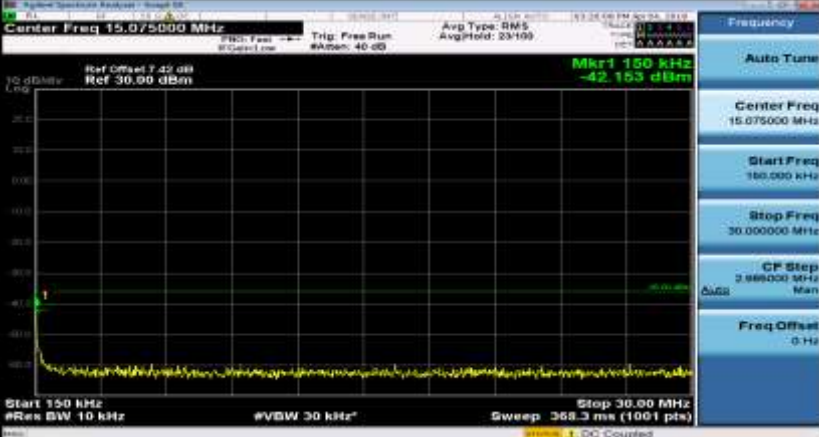
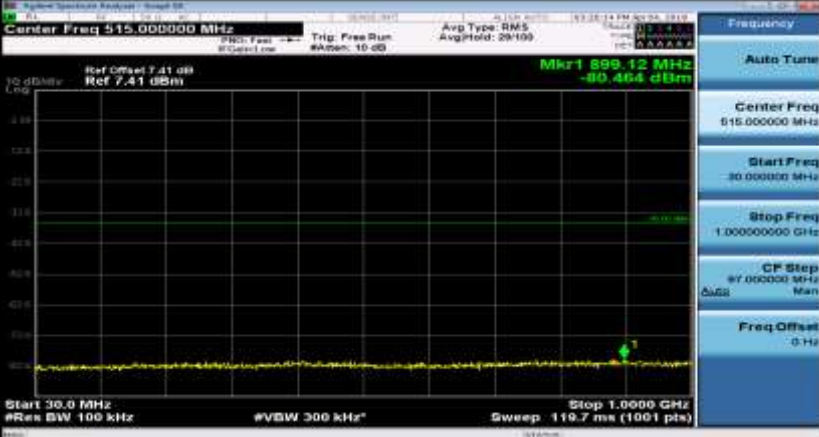
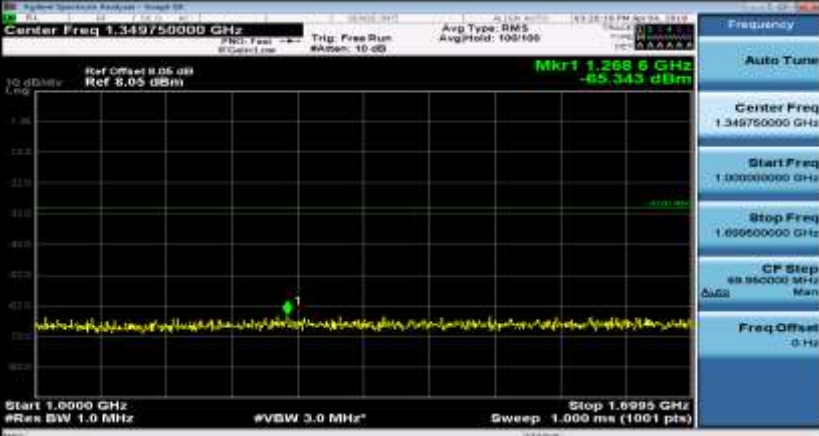
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Co-existence	
Additional	NA

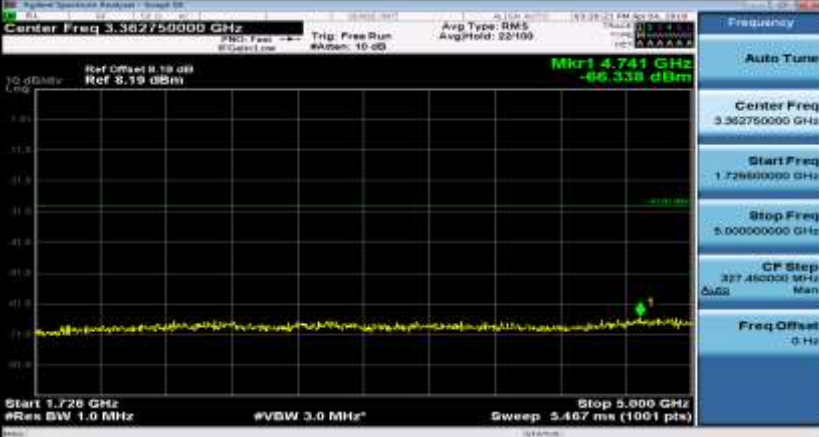
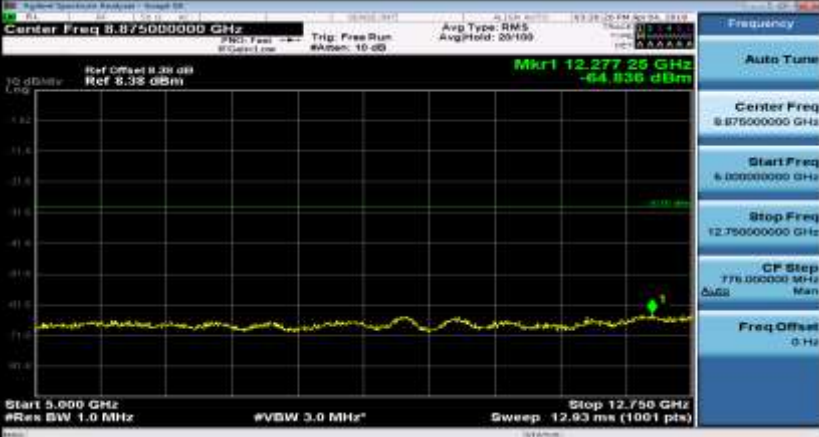
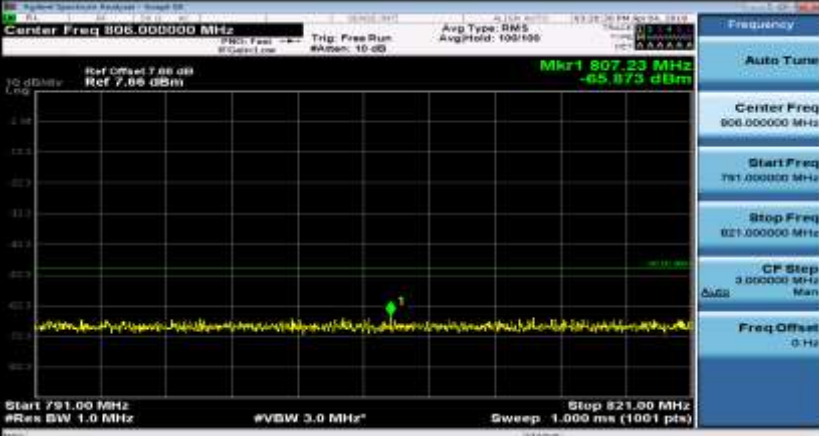
Channel Bandwidth=(5 MHz)

Channel Bandwidth=(5 MHz)_QPSK_LCH_1RB#0	
General	

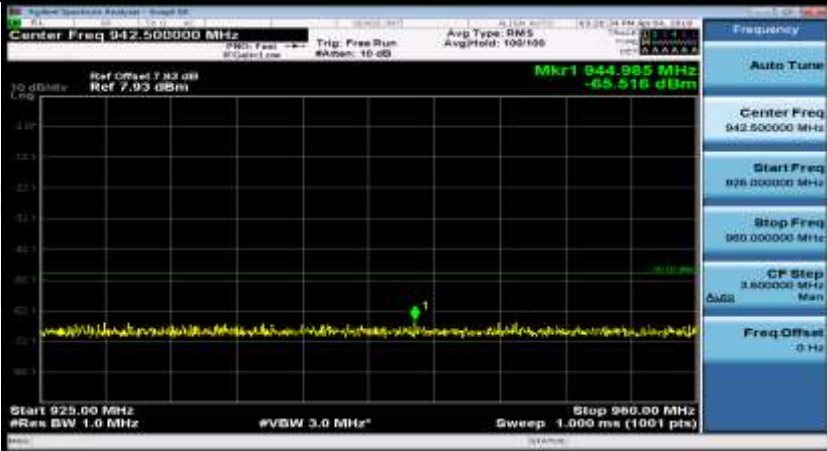
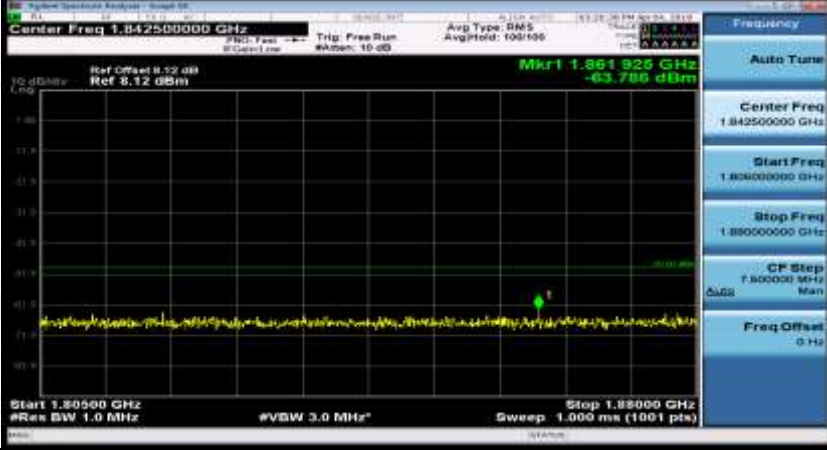
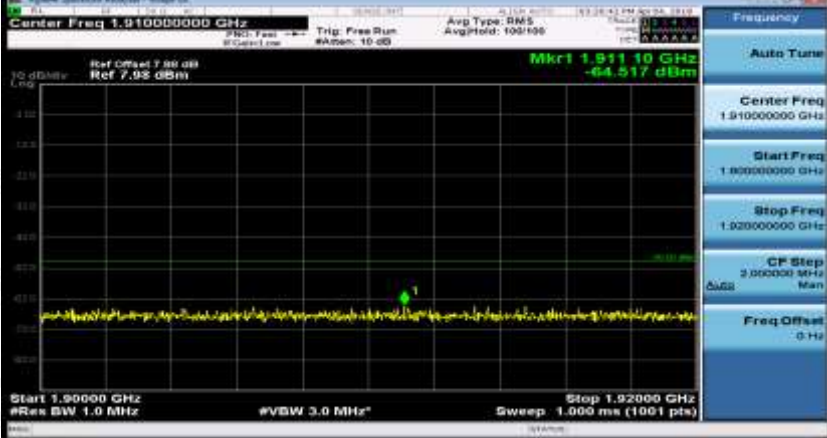
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General			
General			
General			

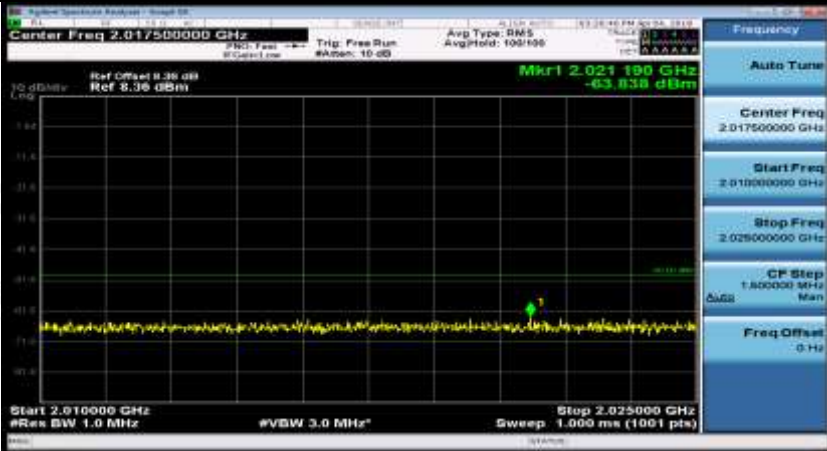

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General			
General			
Co-existence			

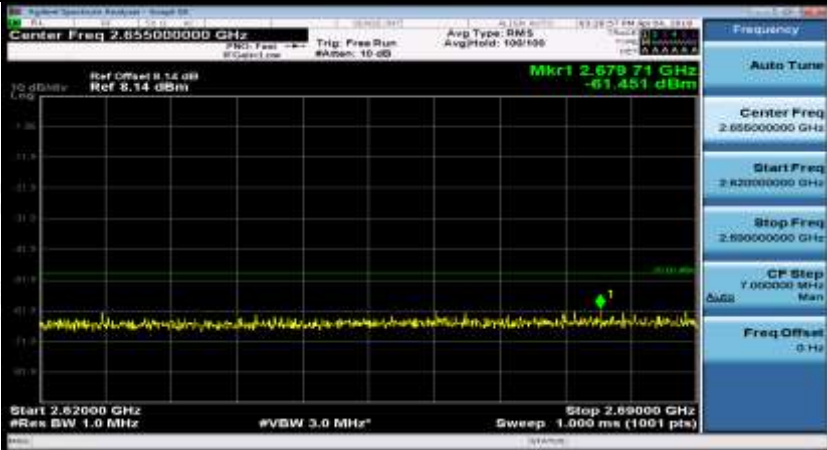
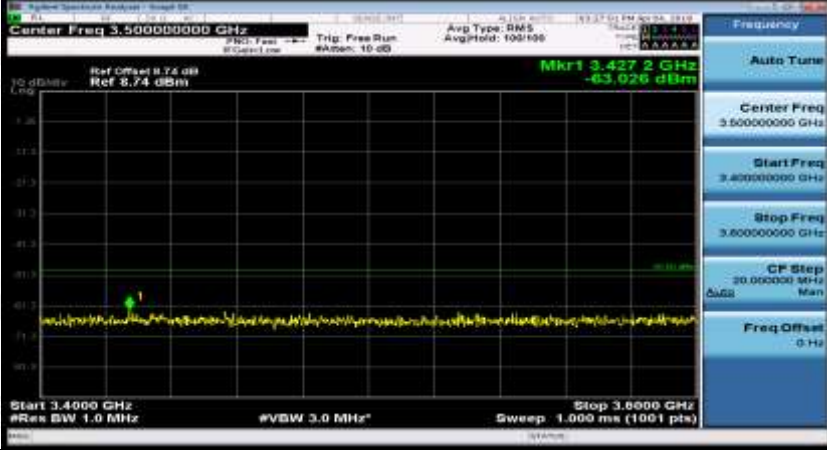

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Co-existence	
Co-existence	
Co-existence	

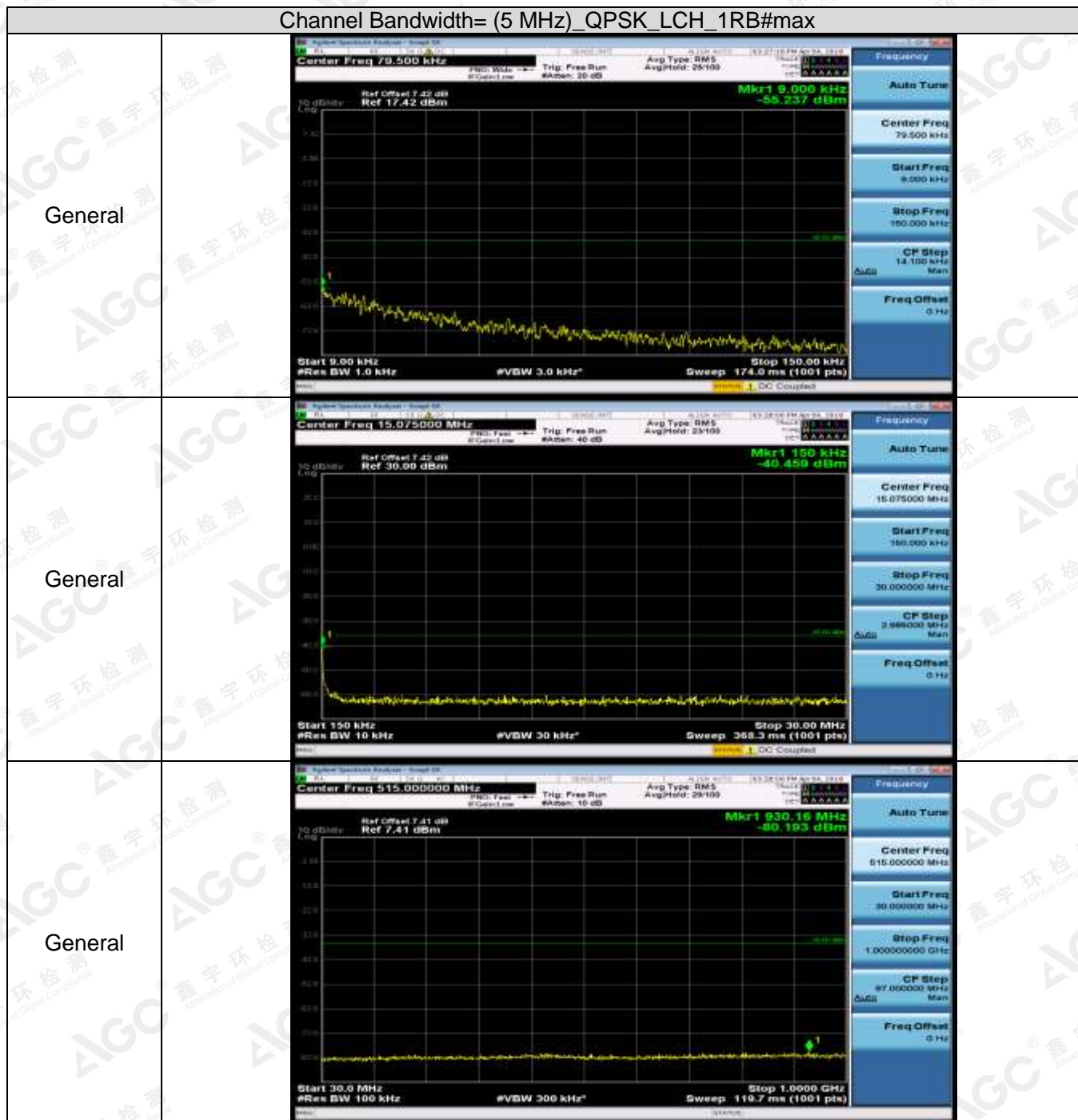
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Co-existence	
Co-existence	
Co-existence	

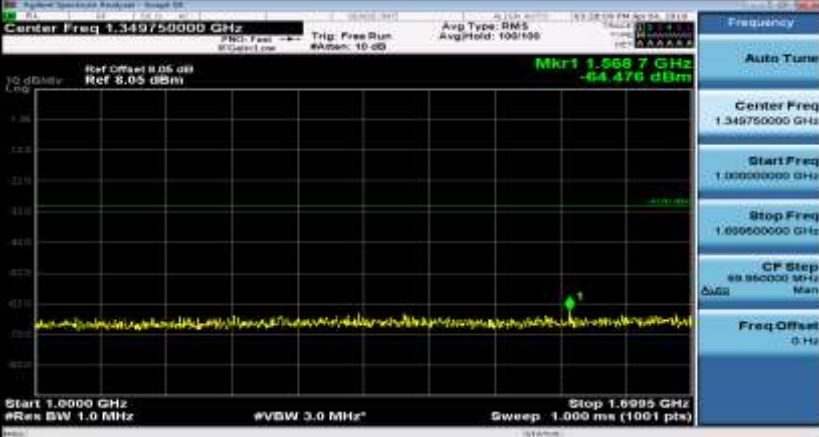


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Co-existence	
Co-existence	
Co-existence	
Additional	NA

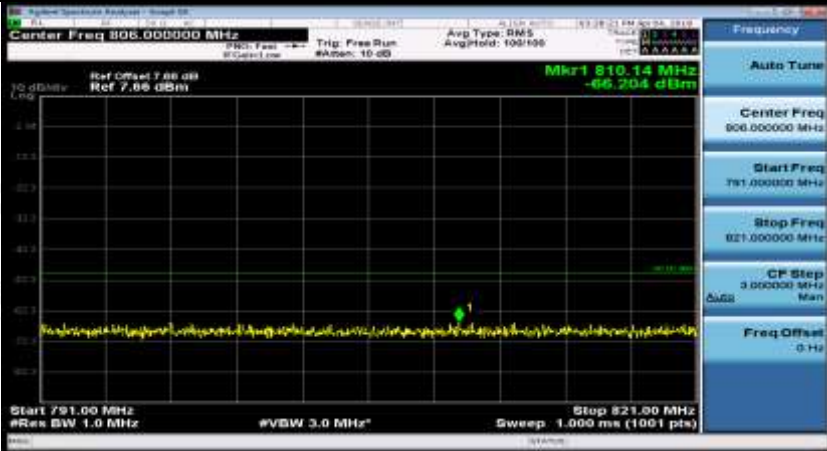
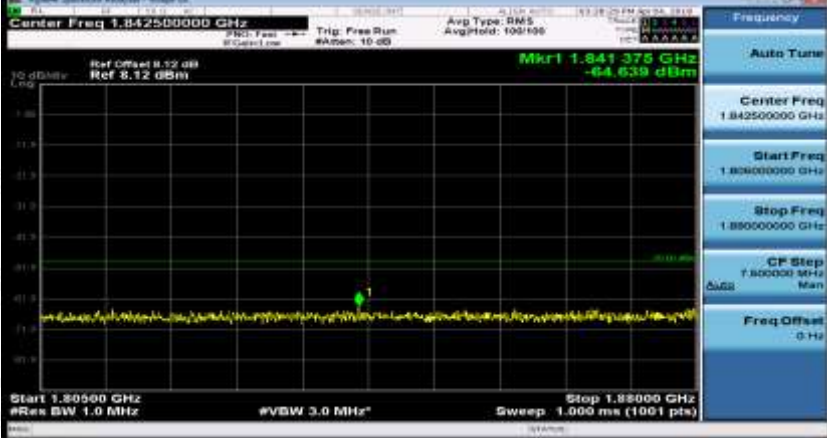
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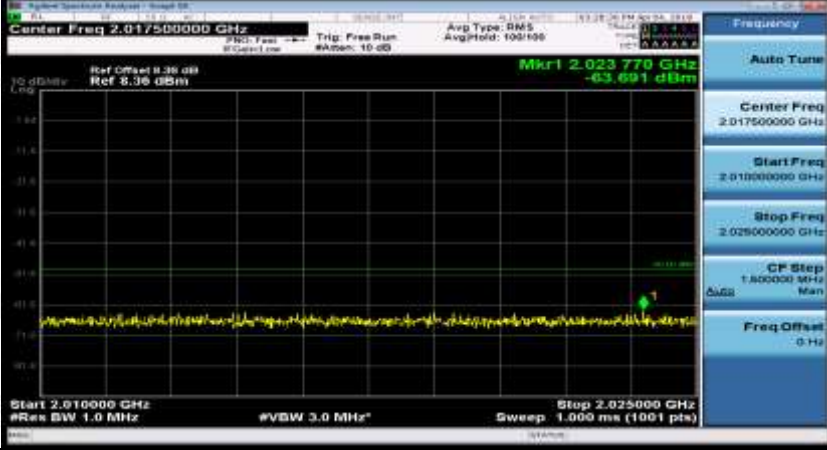
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General			
General			
General			

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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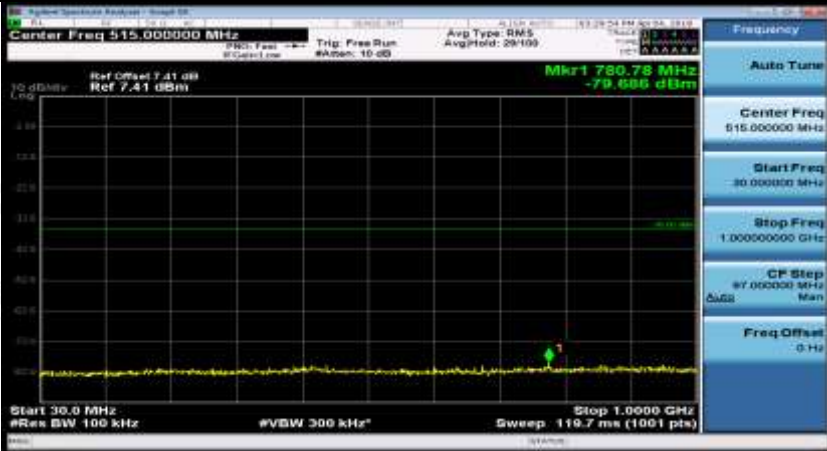
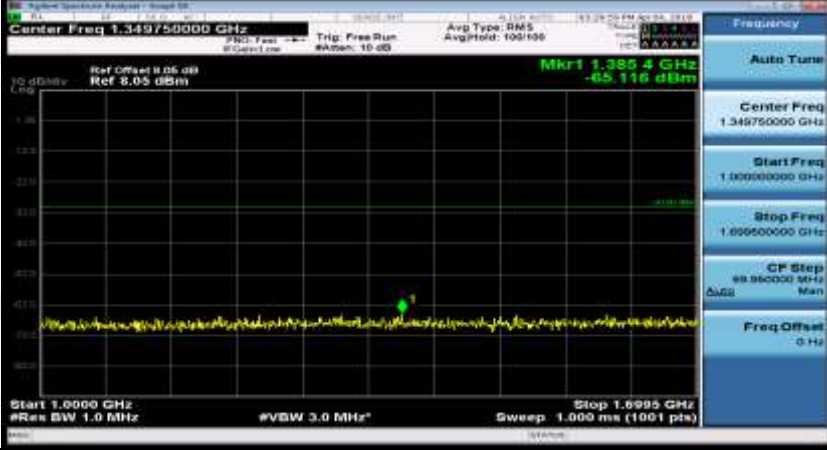
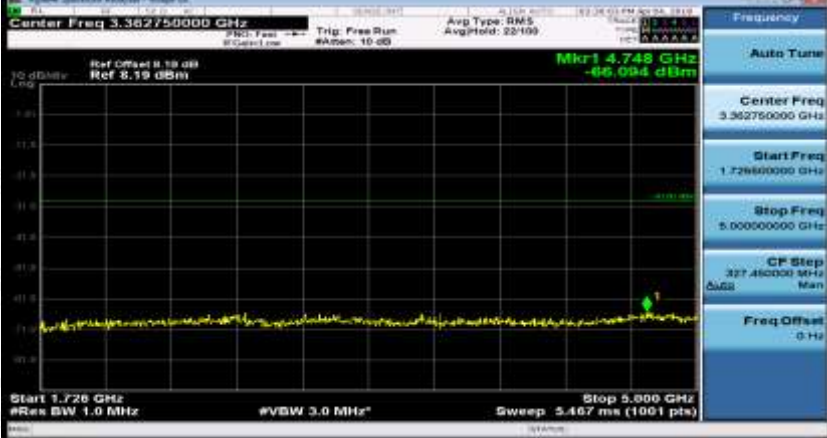
Co-existence	
Co-existence	
Co-existence	

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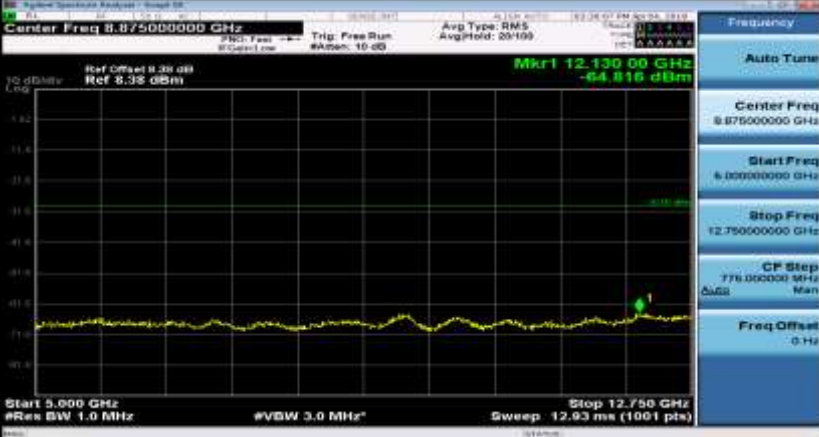
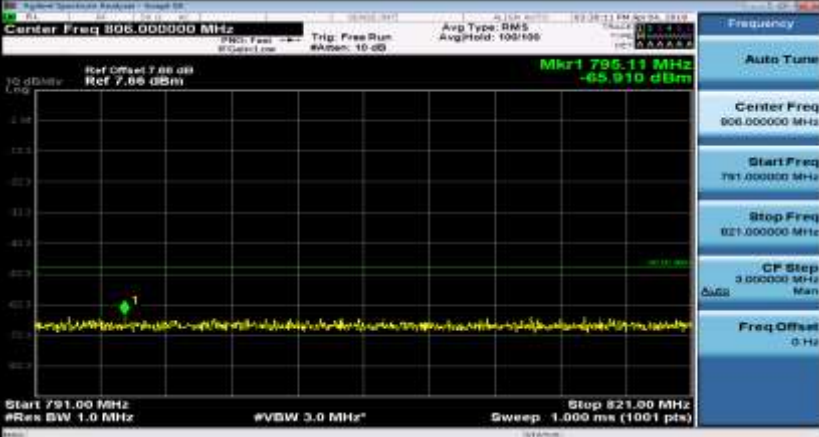
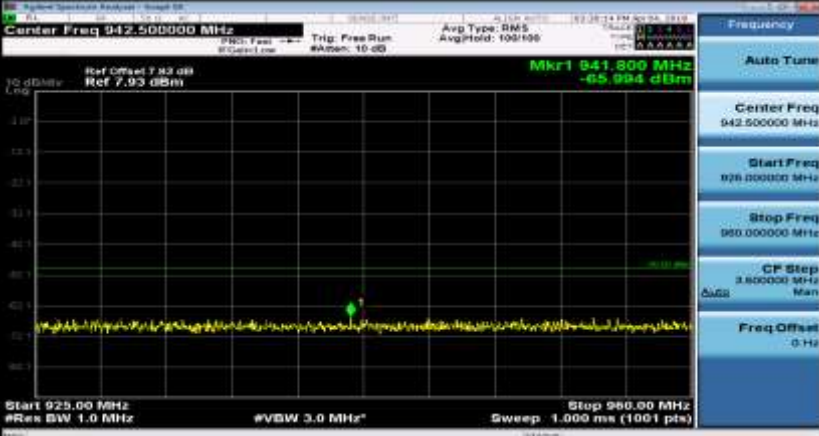
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_LCH_FullRB#0	
General	
General	

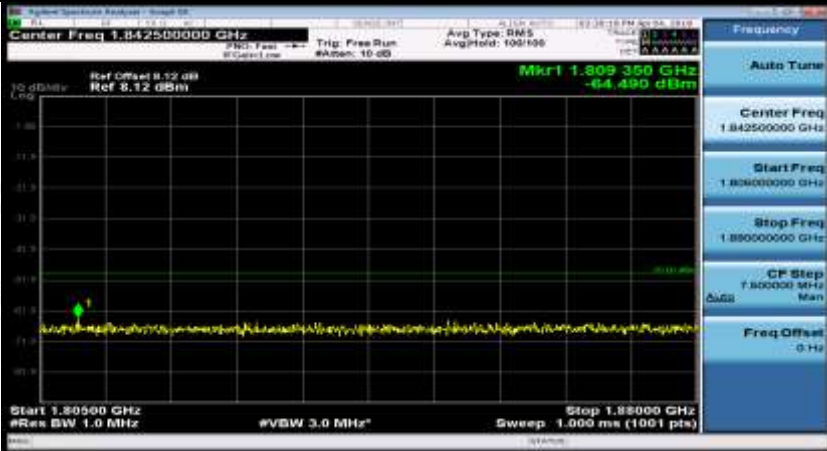
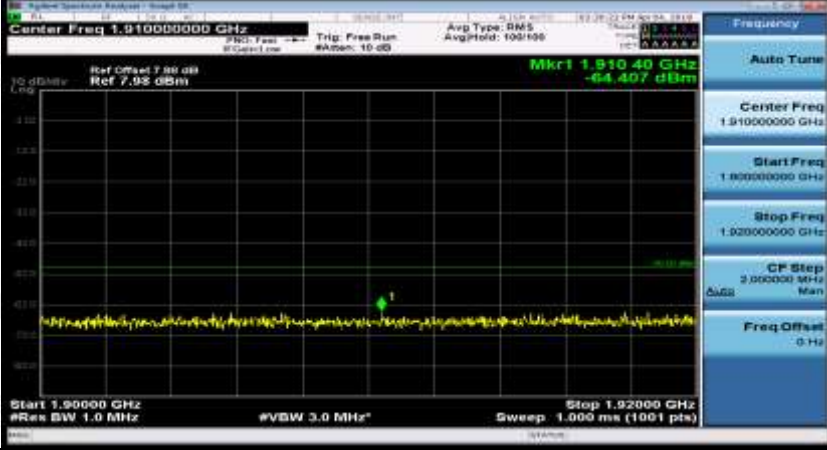
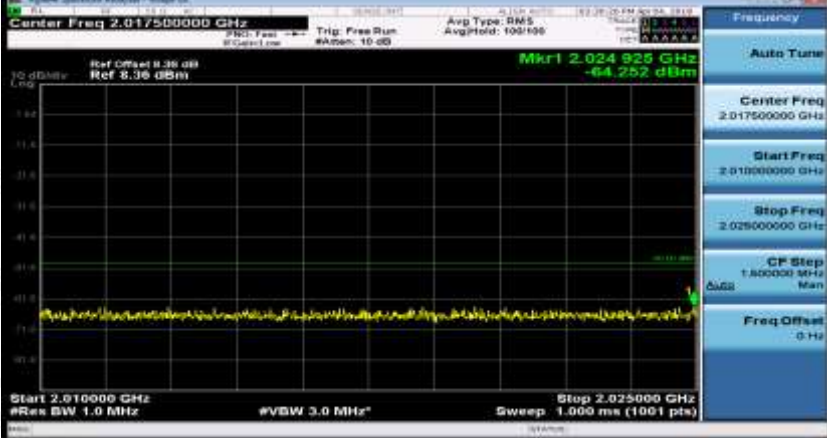
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General	
General	
General	

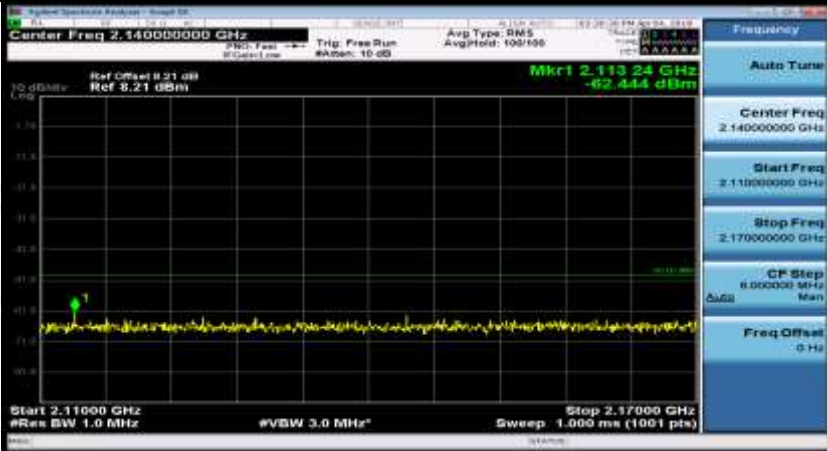

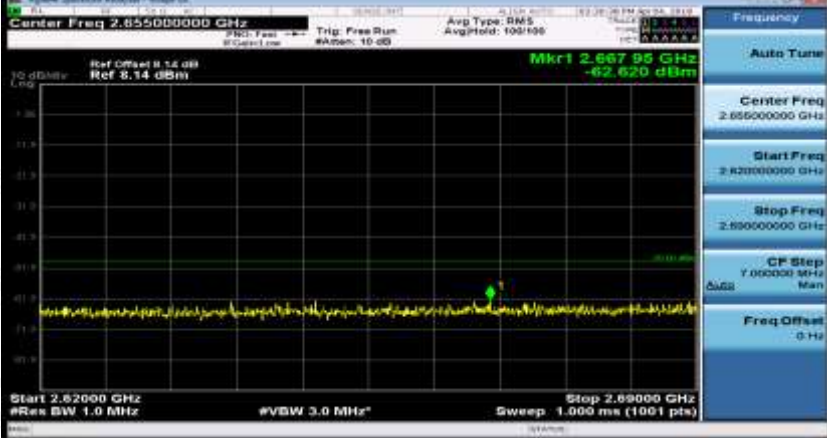
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General			
Co-existence			
Co-existence			

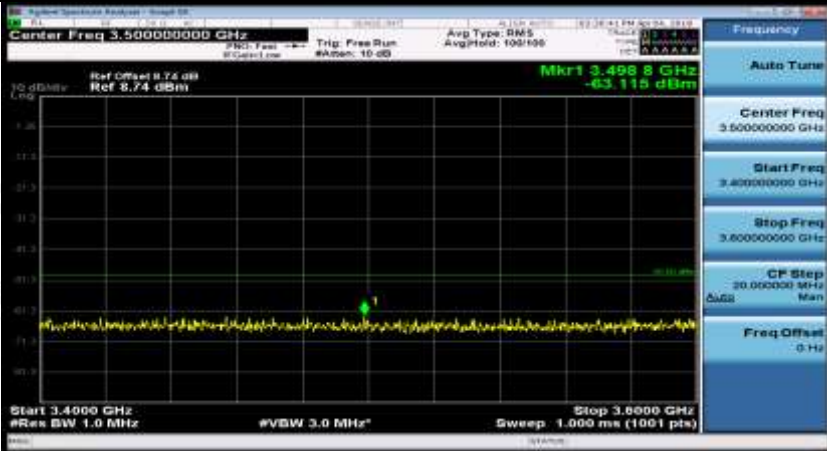

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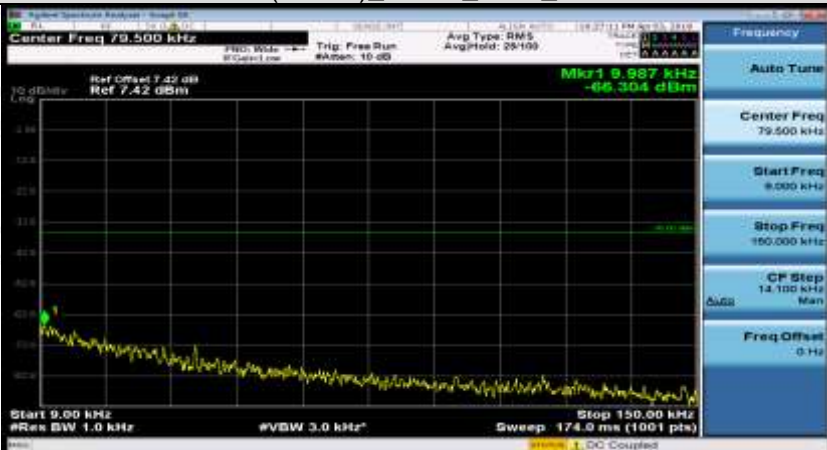
Co-existence	
Co-existence	
Co-existence	

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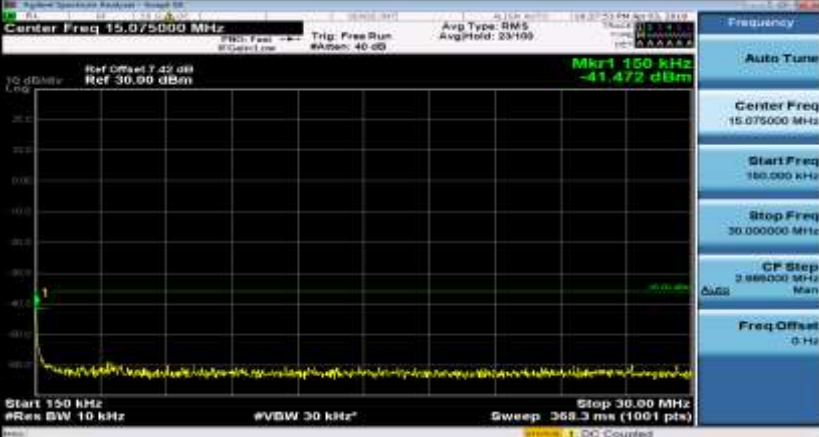
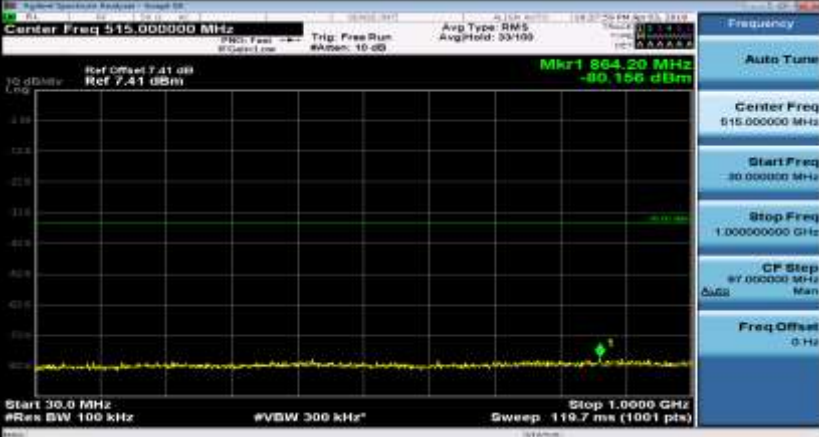
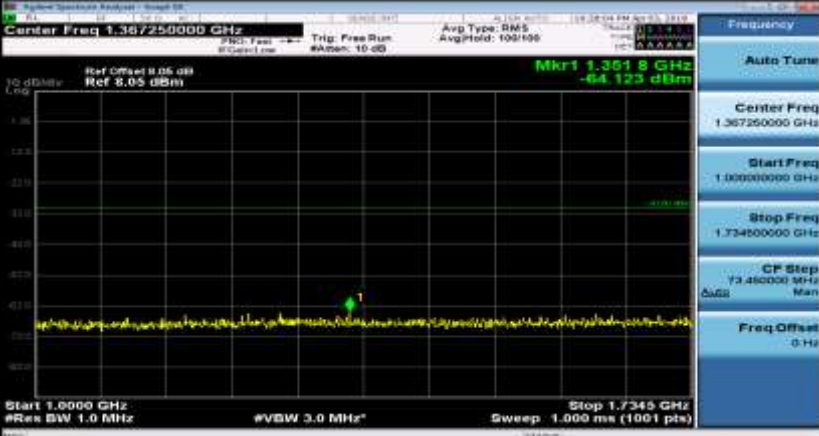
Co-existence	
Co-existence	
Co-existence	

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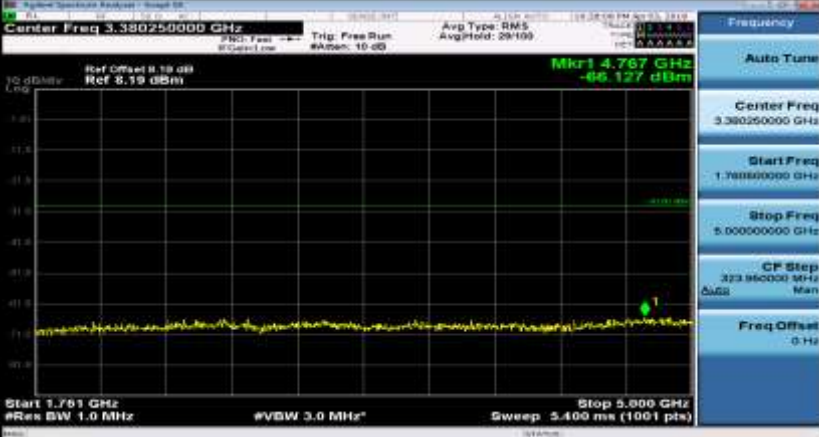
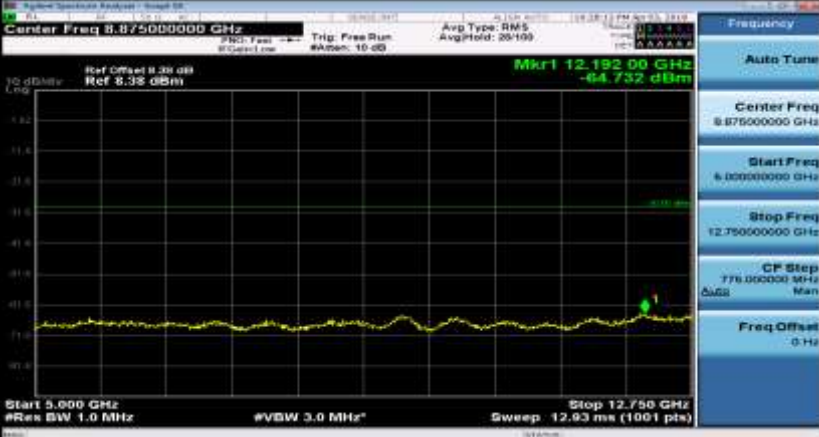
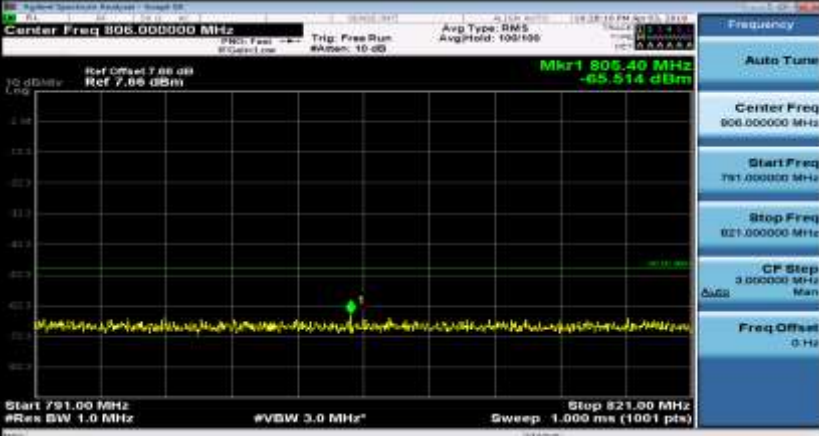
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_MCH_1RB#0	
General	

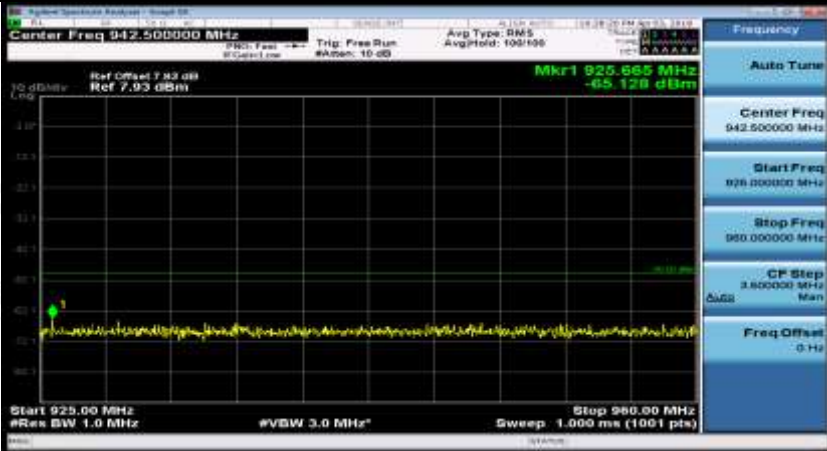
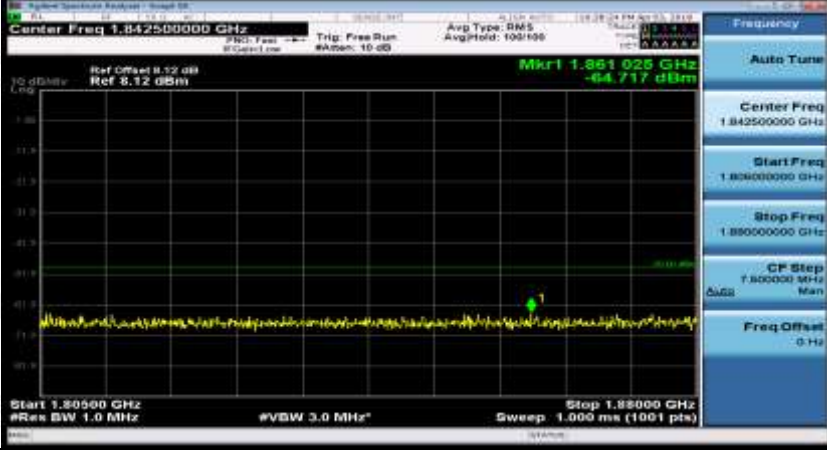
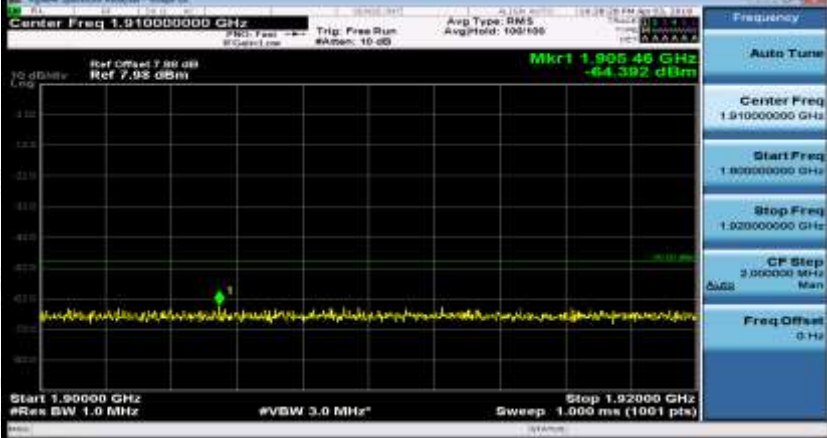
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General			
General			
General			

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General			
General			
Co-existence			

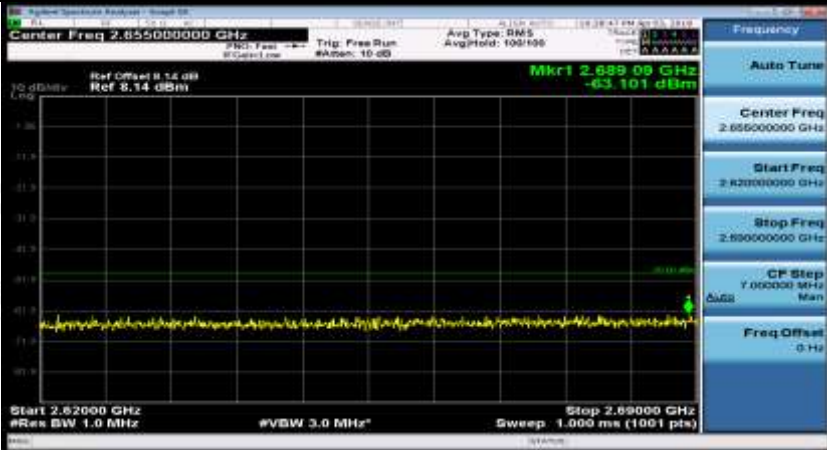
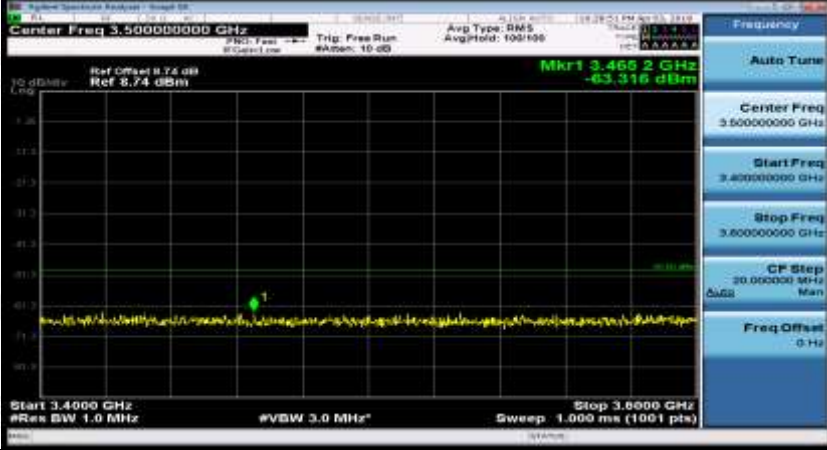
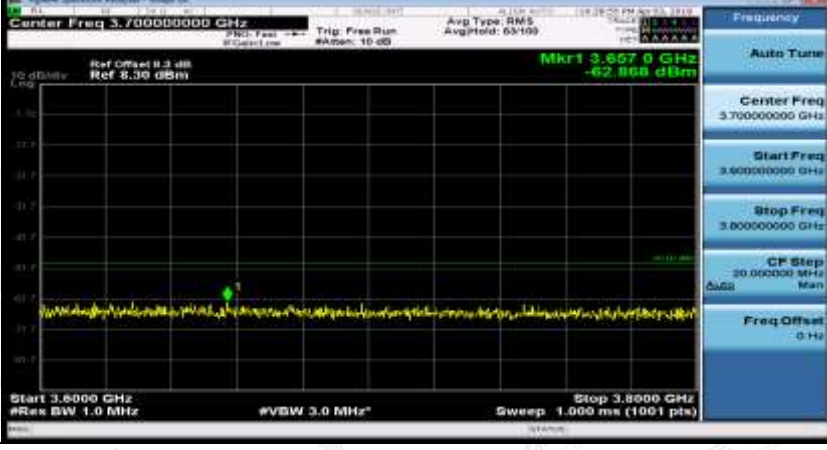
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Co-existence	
Co-existence	
Co-existence	

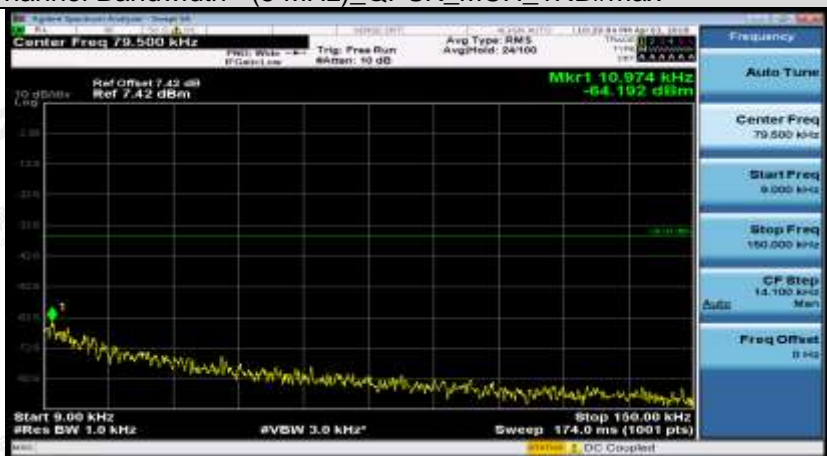
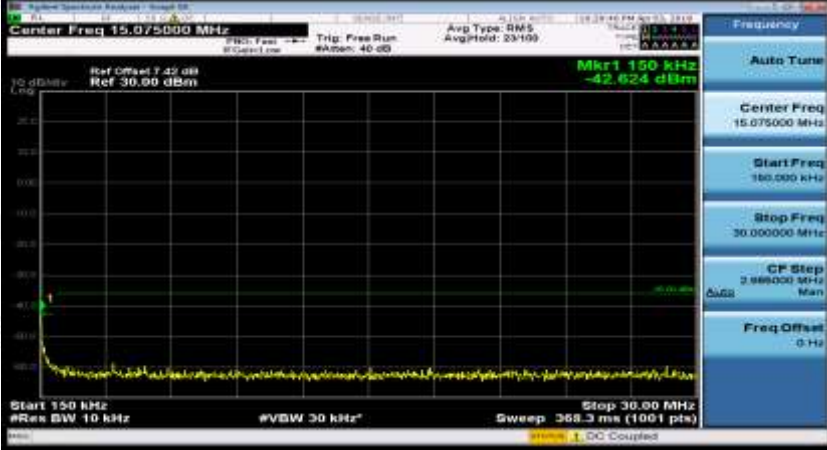
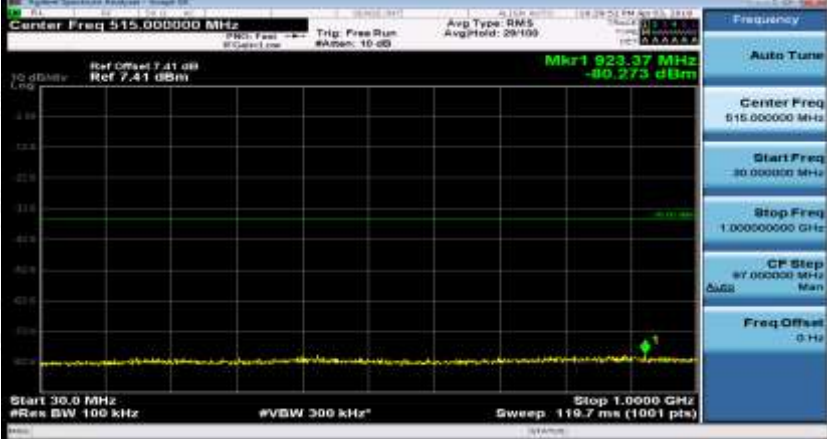
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Co-existence	
Co-existence	
Co-existence	

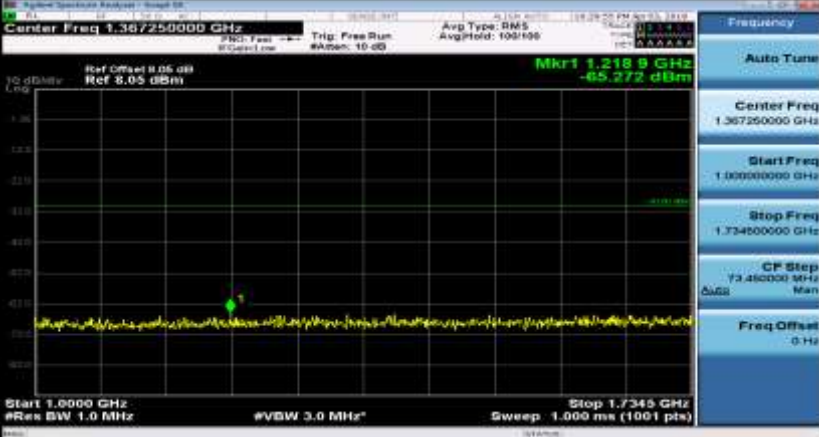


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Co-existence	
Co-existence	
Co-existence	
Additional	NA

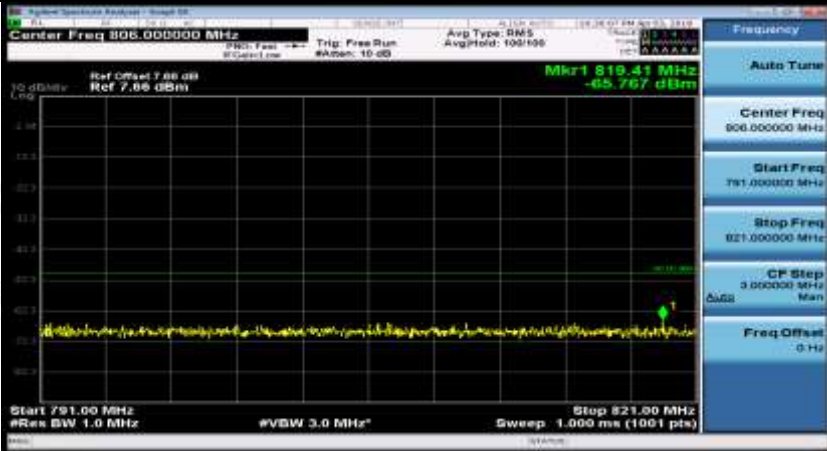
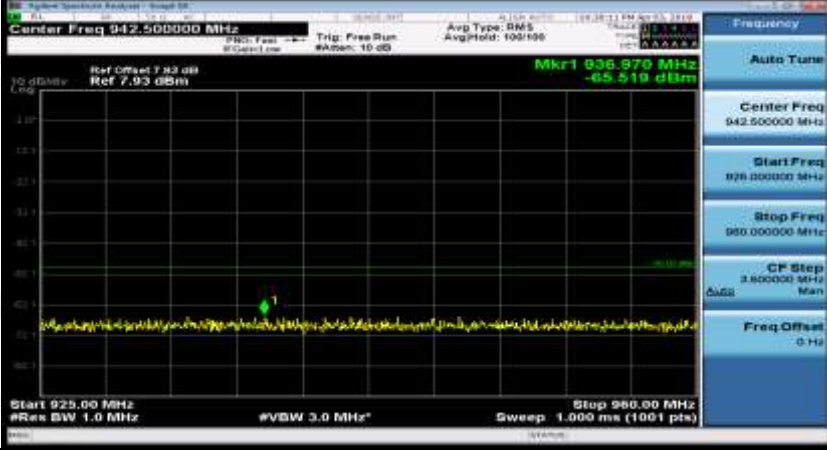
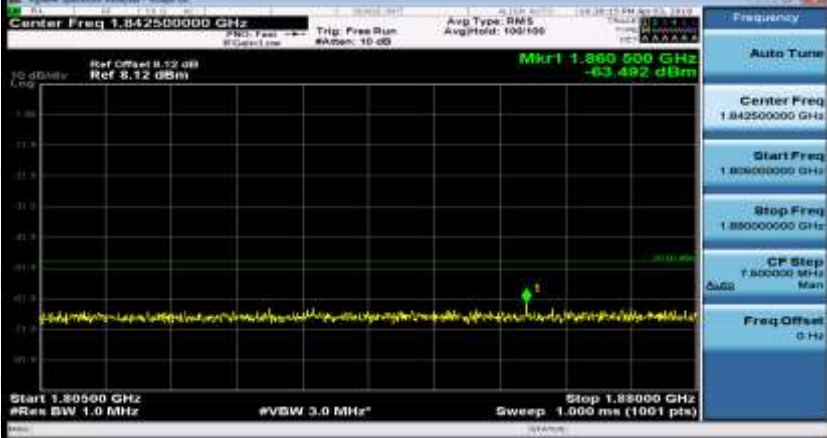
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Channel Bandwidth=(5 MHz)_QPSK_MCH_1RB#max		
General		
General		
General		

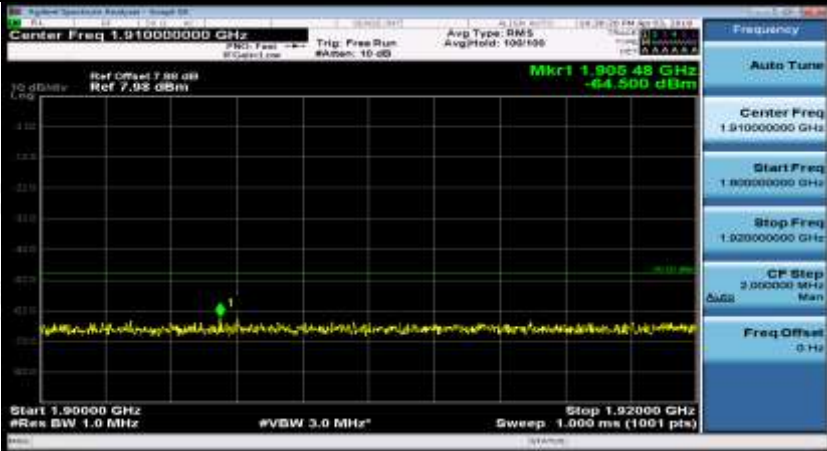
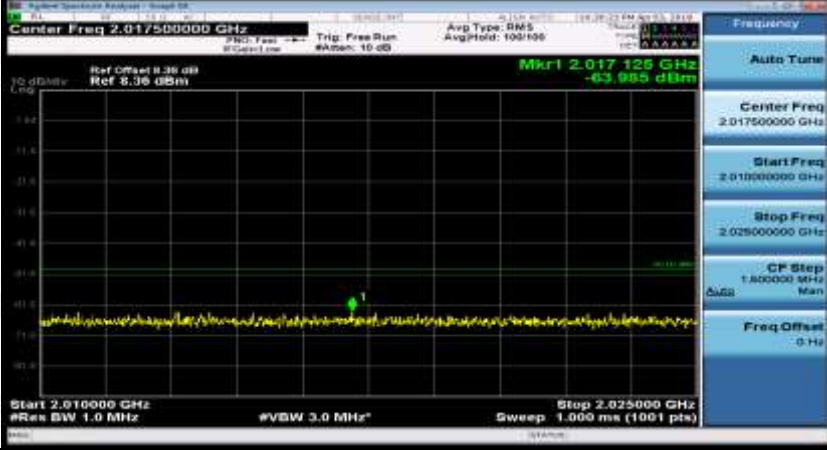
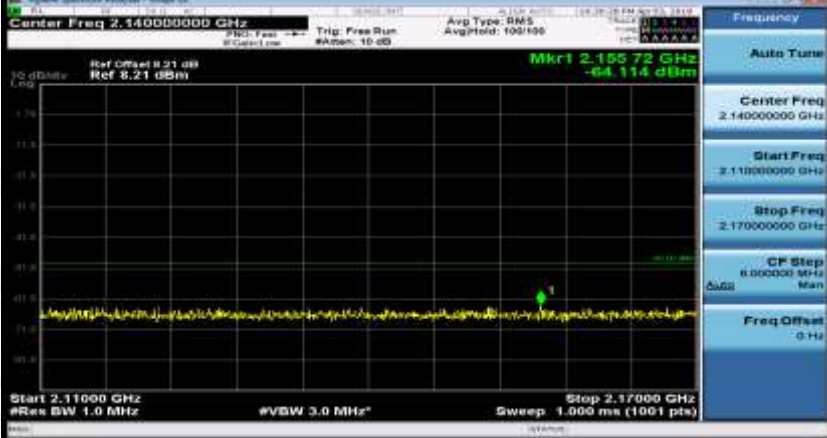
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General			
General			
General			

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Co-existence	
Co-existence	
Co-existence	

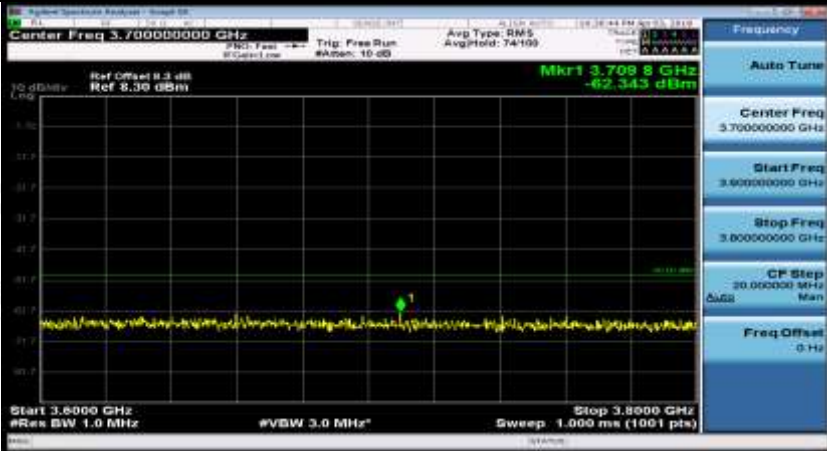
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Co-existence	
Co-existence	
Co-existence	

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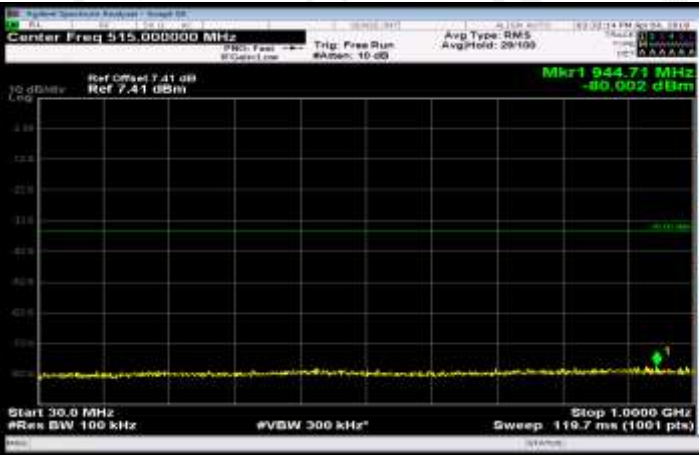
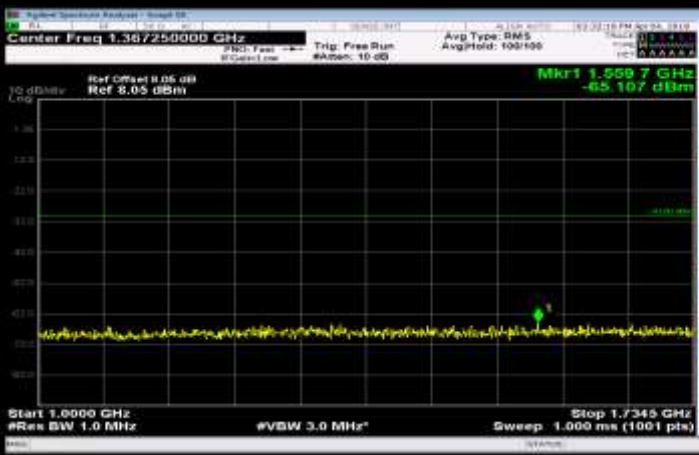

Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_MCH_FullIRB#0	
General	
General	

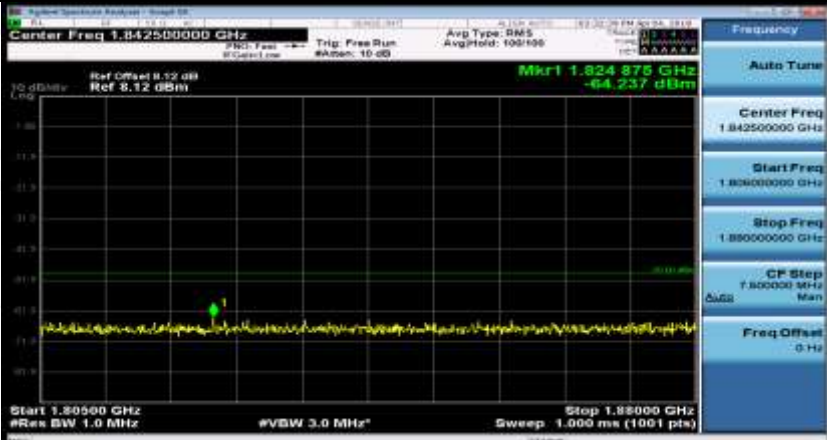

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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.00000000 GHz</p> <p>CF Step 87.000000 MHz Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 1.36725000 GHz</p> <p>Start Freq 1.00000000 GHz</p> <p>Stop Freq 1.73450000 GHz</p> <p>CF Step 73.450000 MHz Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.38025000 GHz</p> <p>Start Freq 1.78860000 GHz</p> <p>Stop Freq 5.00000000 GHz</p> <p>CF Step 323.960000 MHz Man</p> <p>Freq Offset 0 Hz</p>

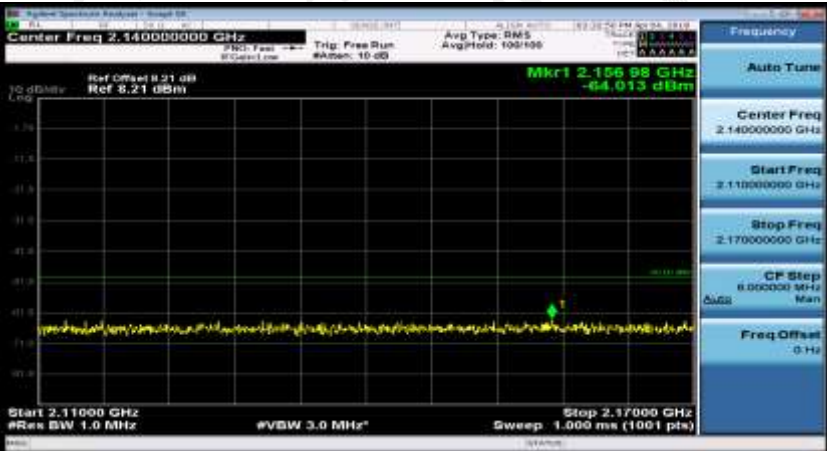
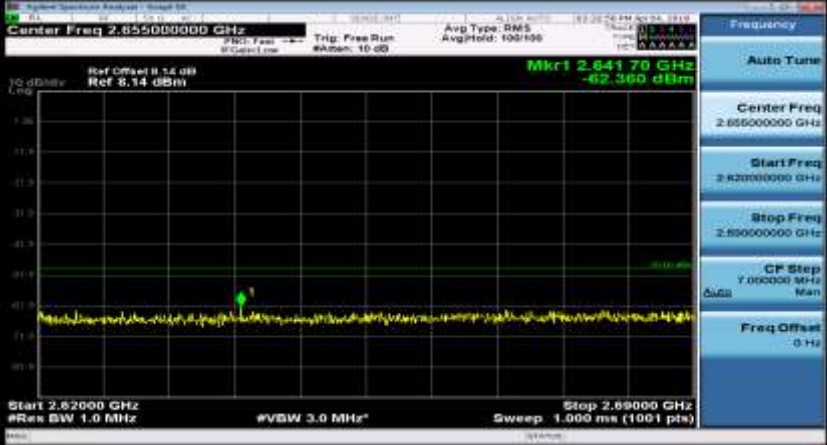
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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 8.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 775.000000 MHz</p> <p>ΔdBs Man</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 806.000000 MHz</p> <p>Start Freq 751.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>ΔdBs Man</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 942.500000 MHz</p> <p>Start Freq 926.000000 MHz</p> <p>Stop Freq 960.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>ΔdBs Man</p> <p>Freq Offset 0 Hz</p>

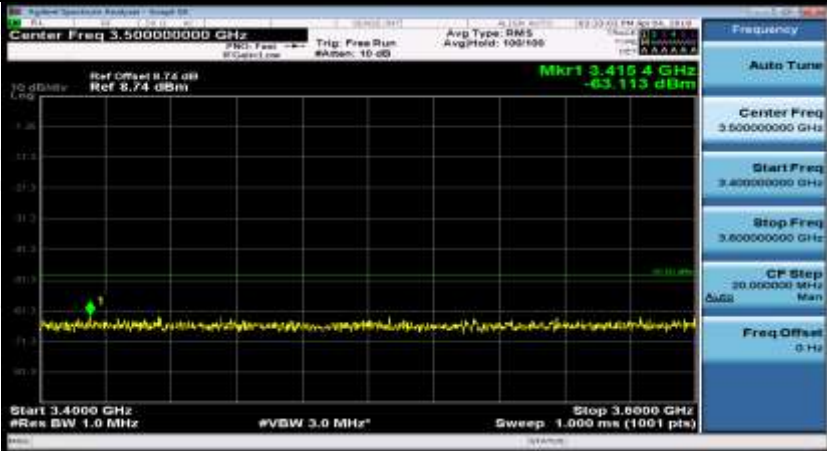
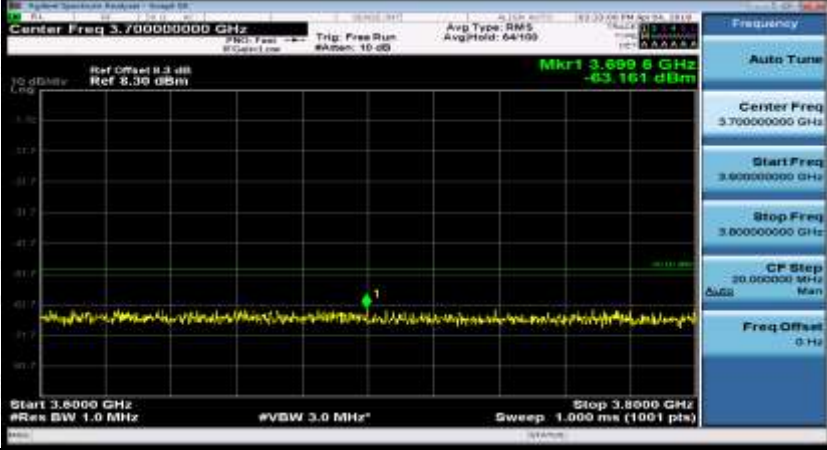
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Co-existence	
Co-existence	
Co-existence	

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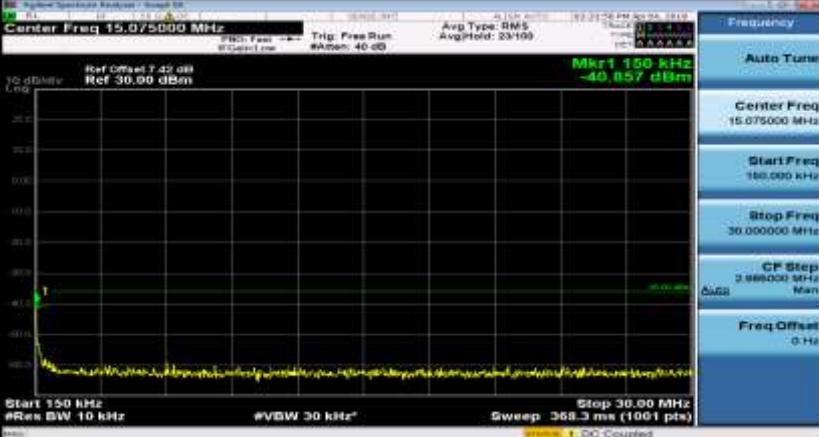
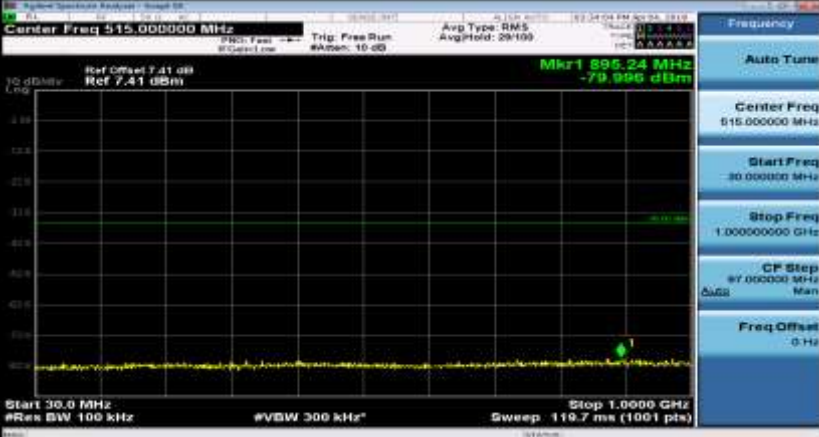
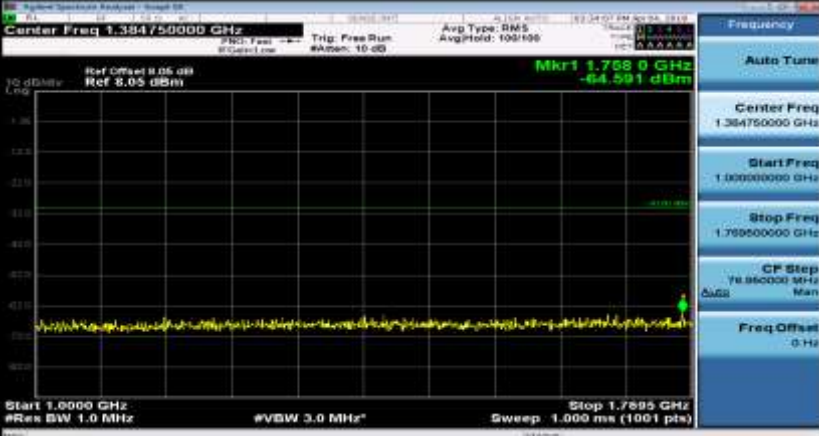
Co-existence	
Co-existence	
Co-existence	

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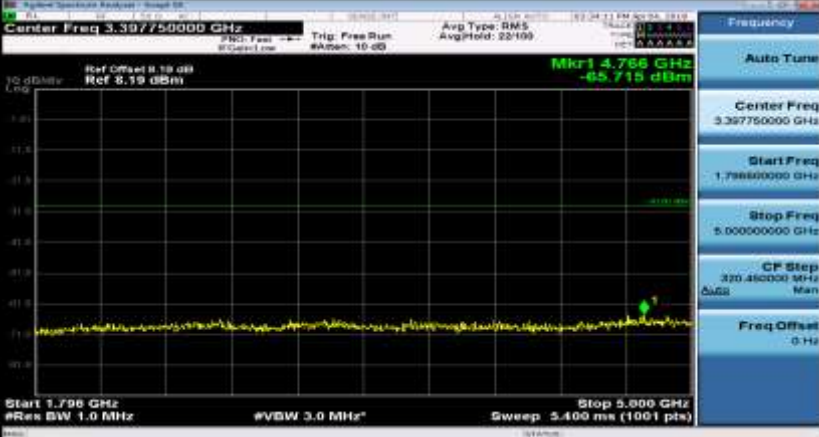
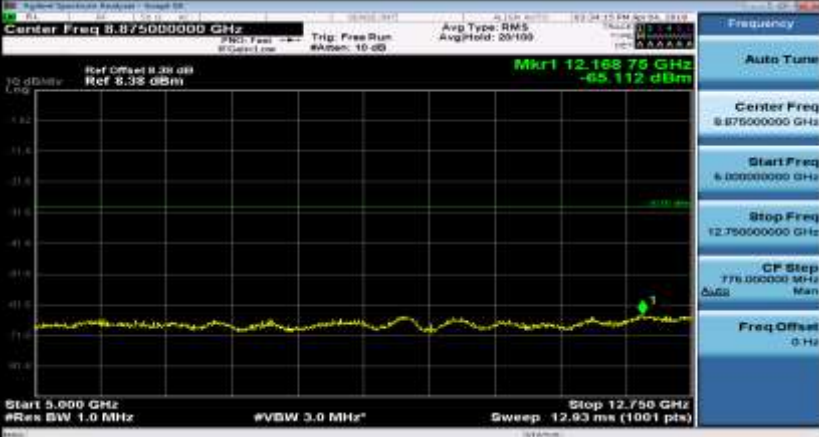
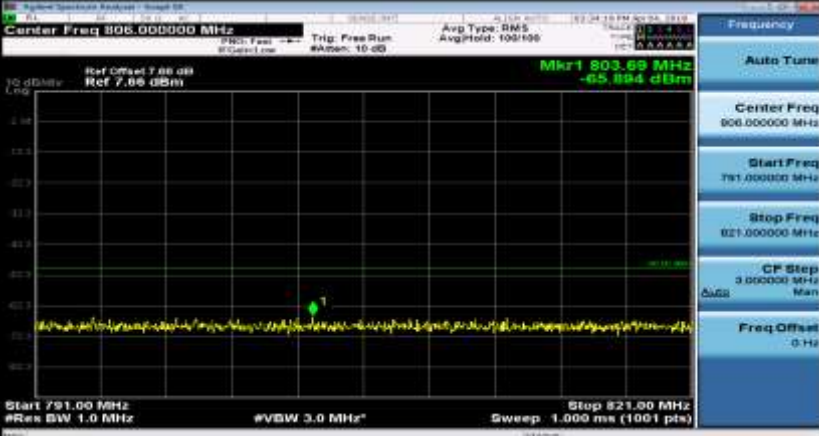
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_HCH_1RB#0	
General	

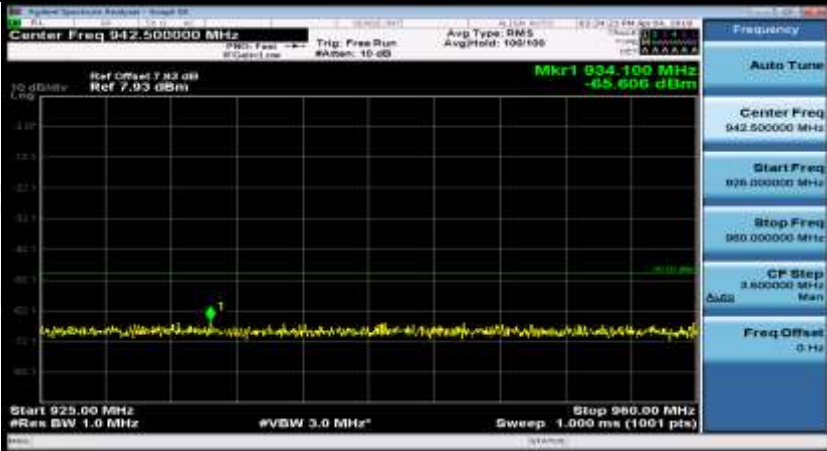
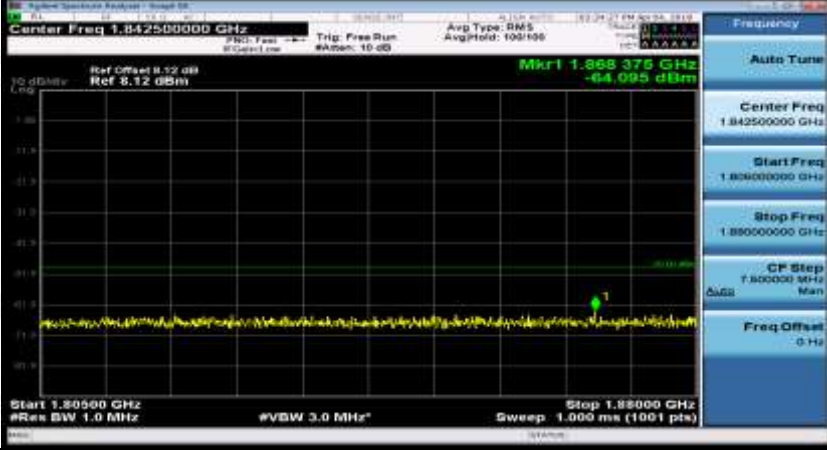
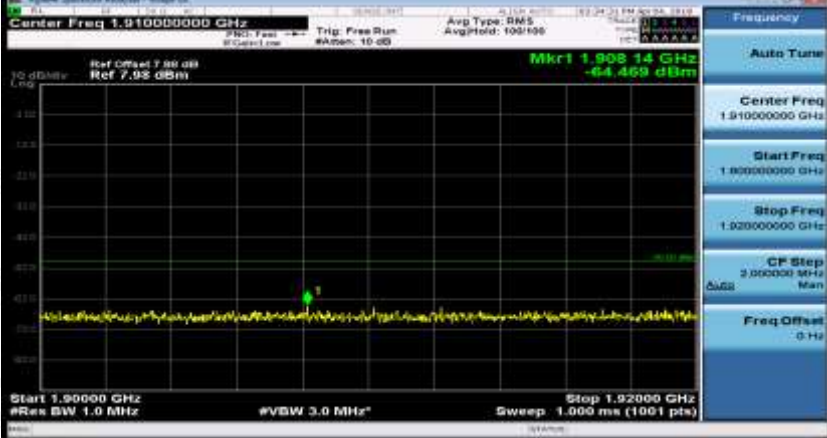
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General			
General			
General			

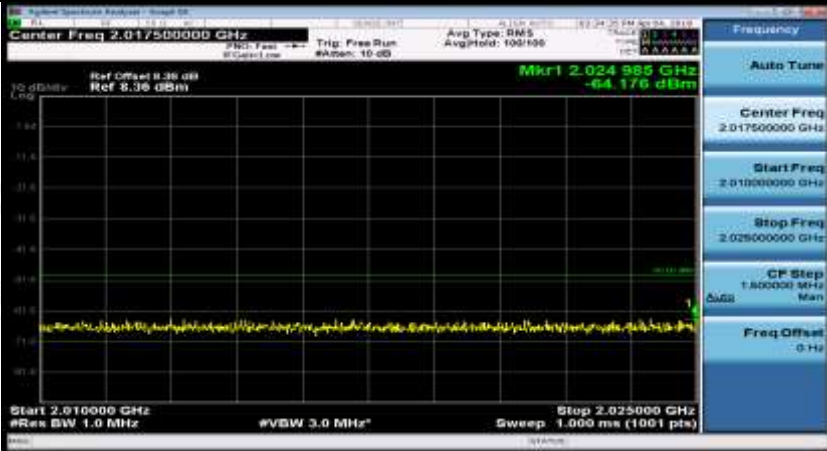

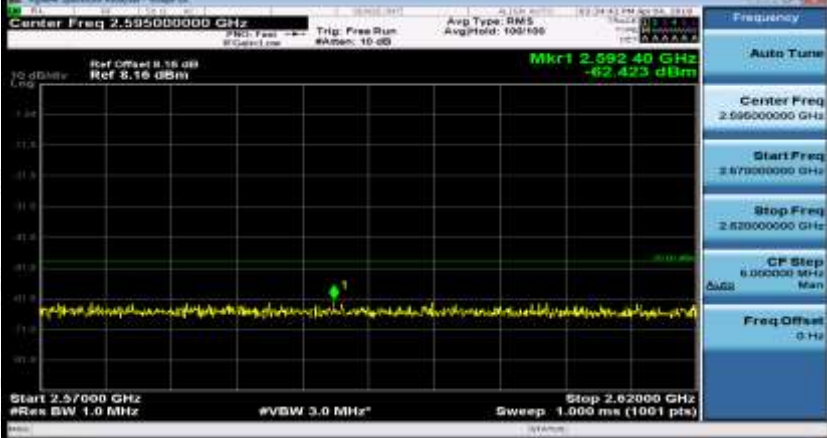
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General			
General			
Co-existence			

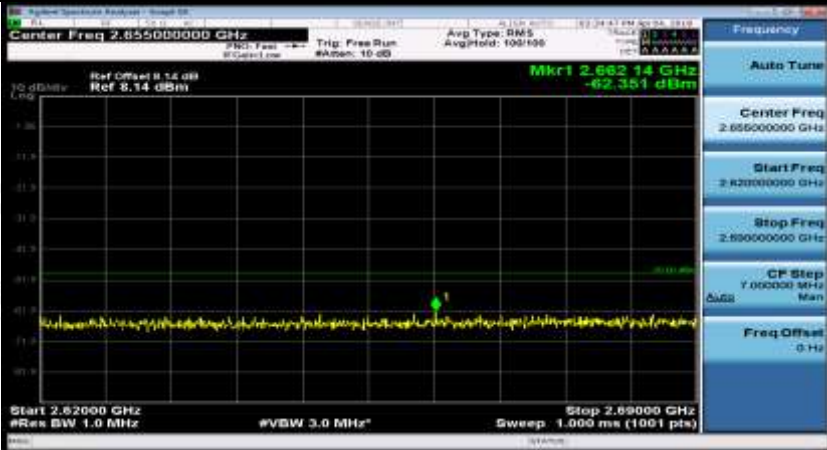
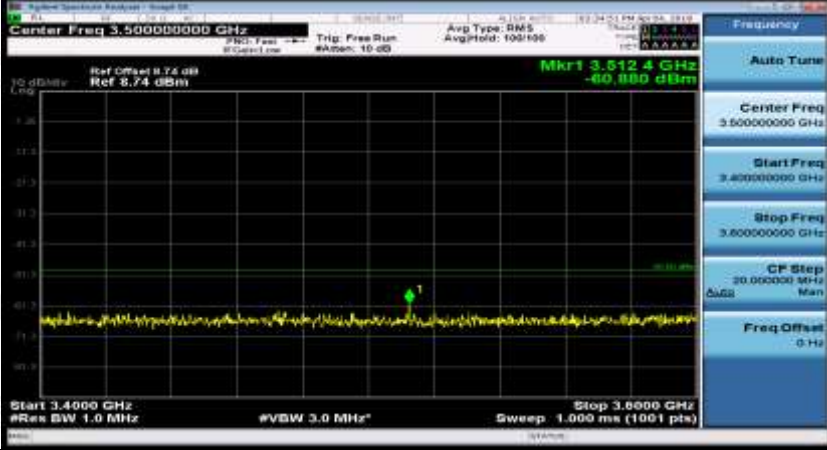

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Co-existence	
Co-existence	
Co-existence	

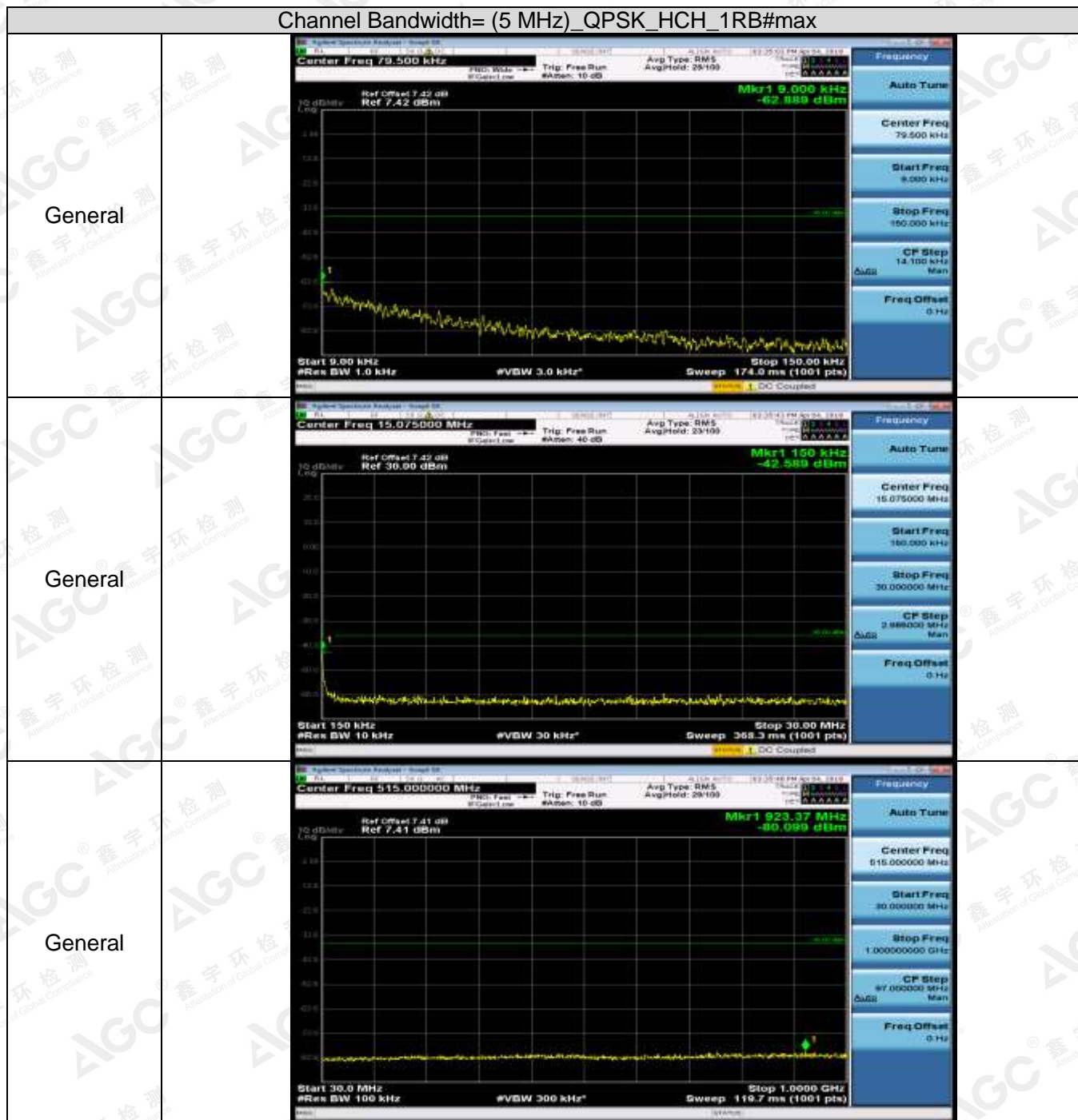
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Co-existence	
Co-existence	
Co-existence	

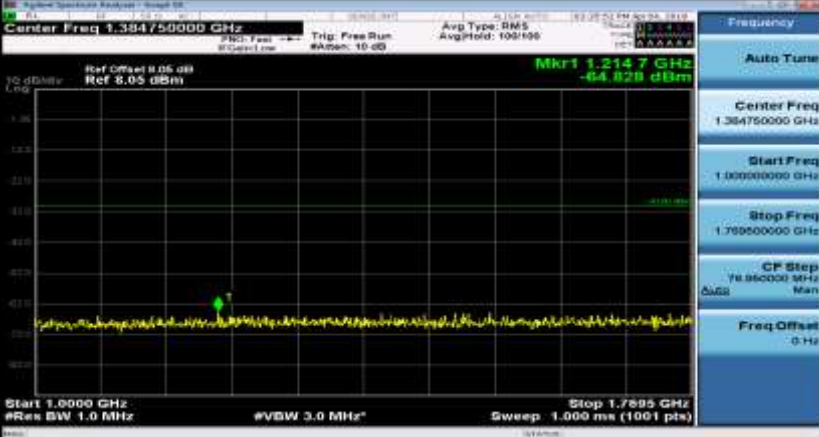


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Co-existence	
Co-existence	
Co-existence	
Additional	NA

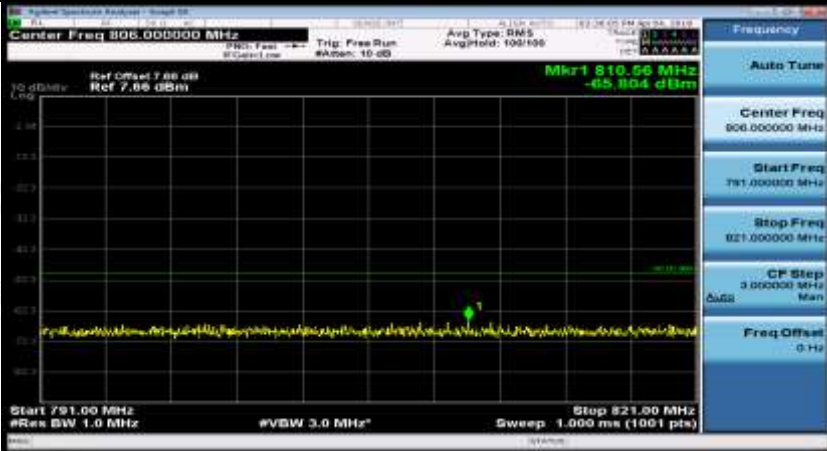
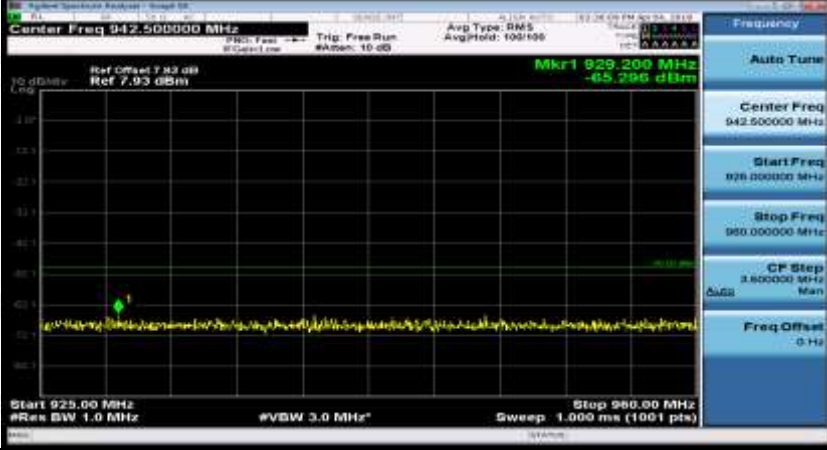
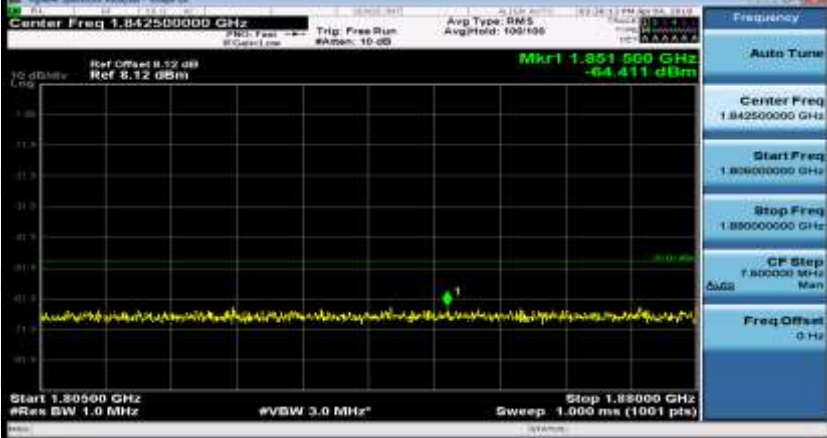
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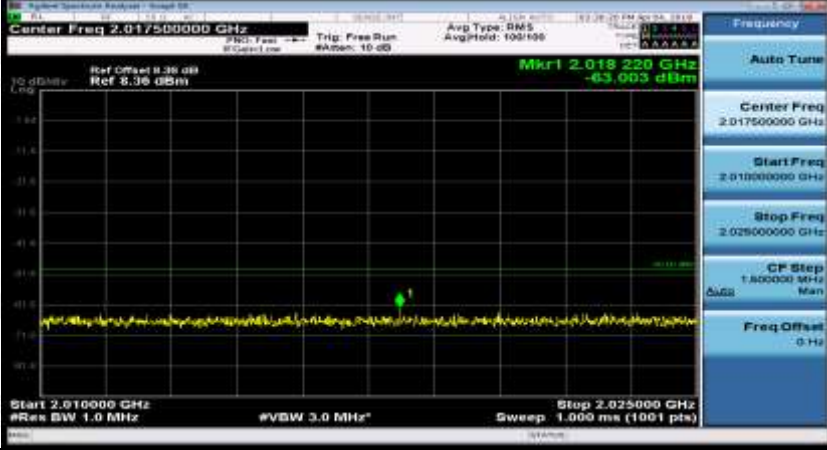
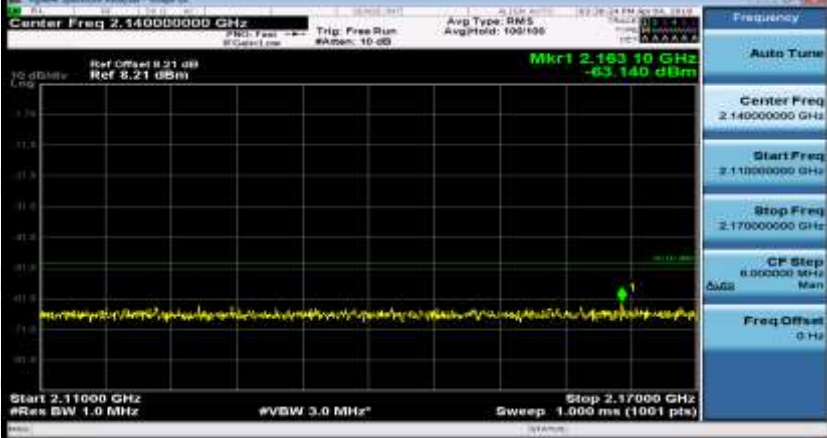
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General			
General			
General			

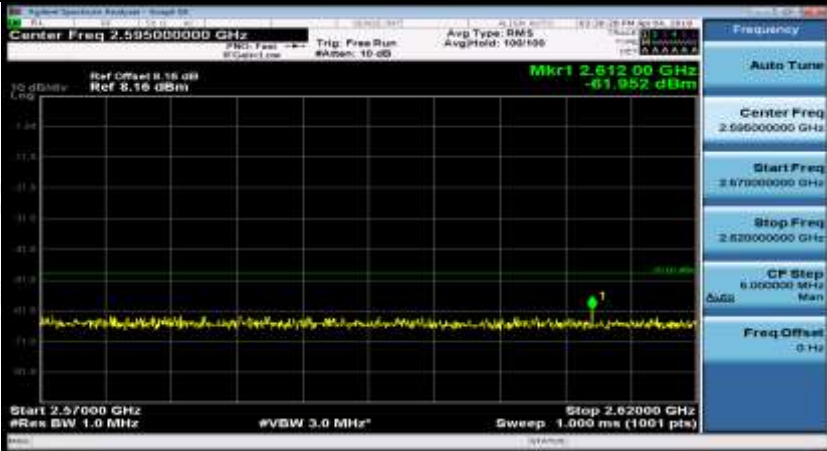

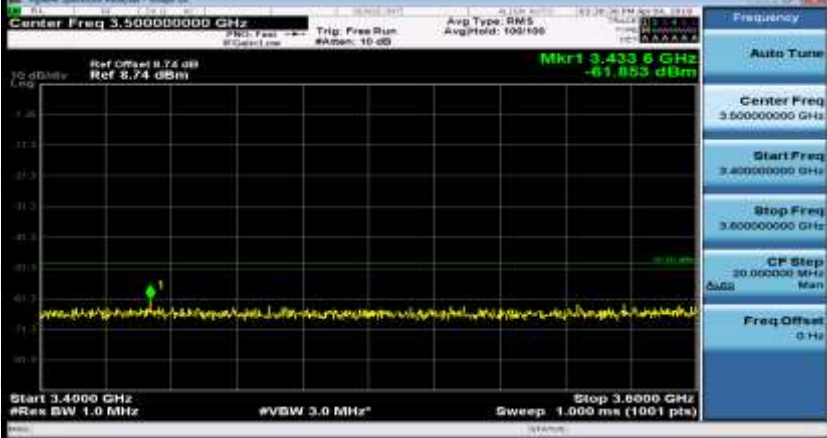
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Co-existence	
Co-existence	
Co-existence	

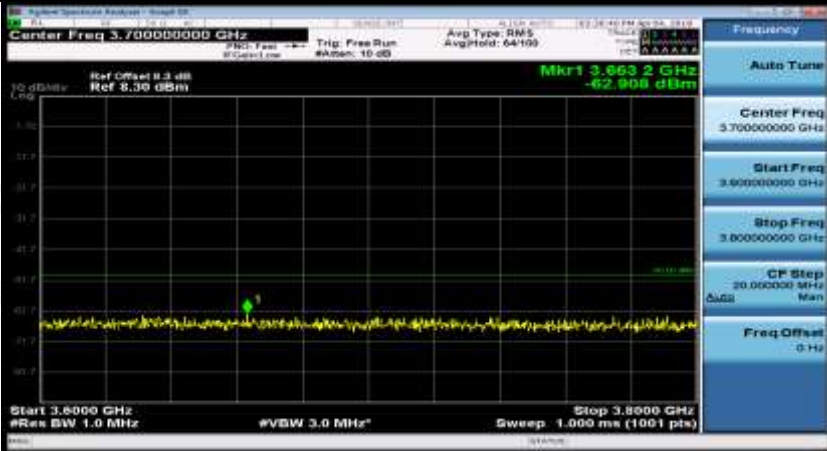
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Co-existence	
Co-existence	
Co-existence	

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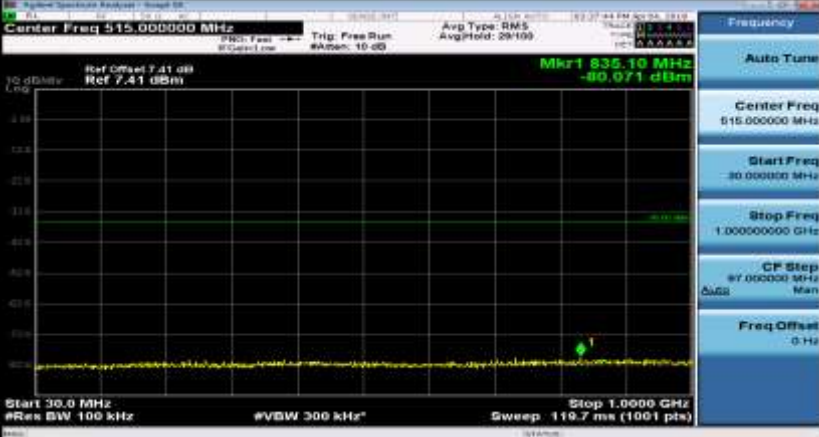
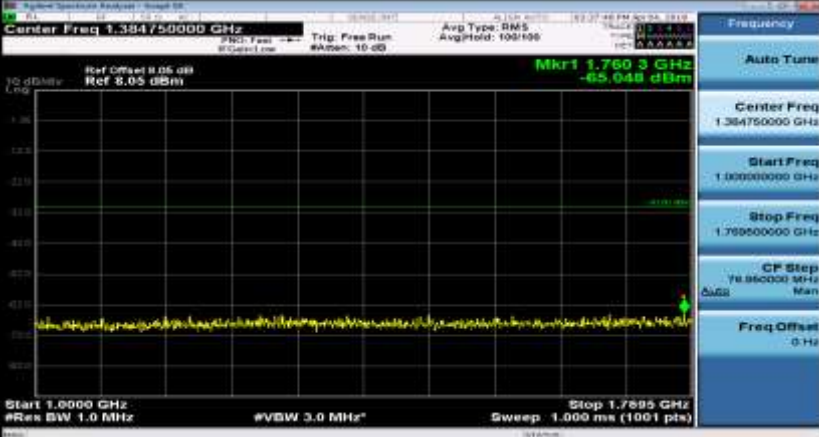

Co-existence	
Co-existence	
Co-existence	

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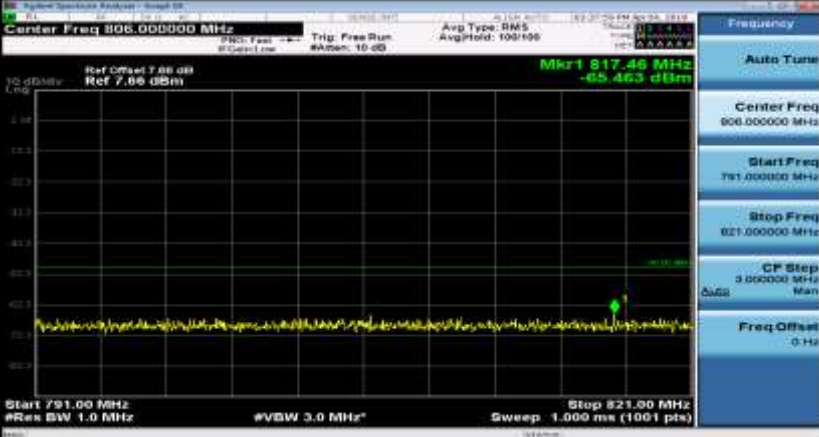
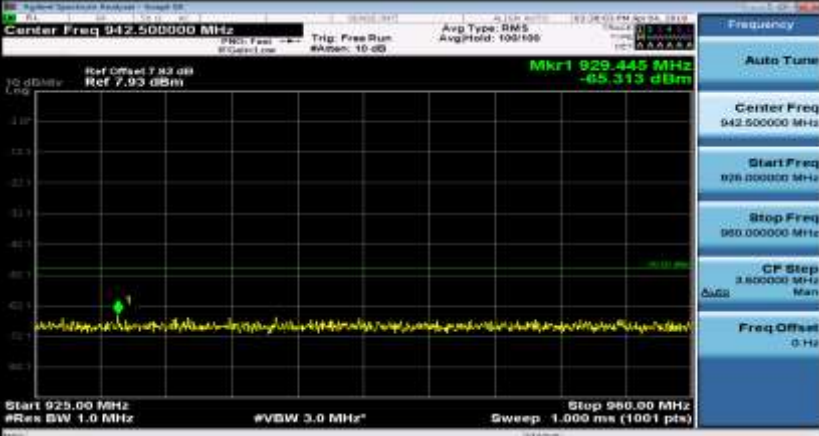
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_HCH_FullIRB#0	
General	
General	

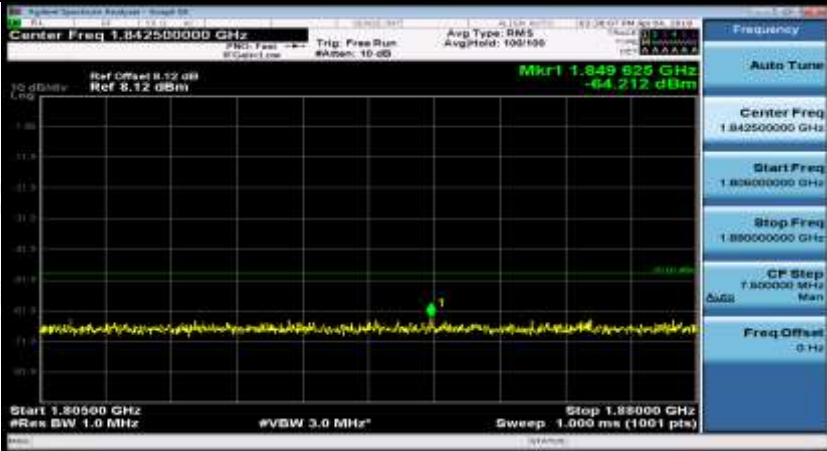
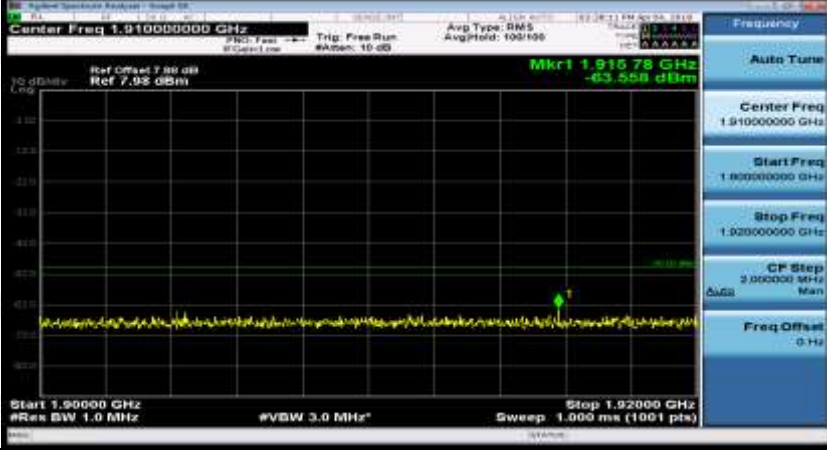
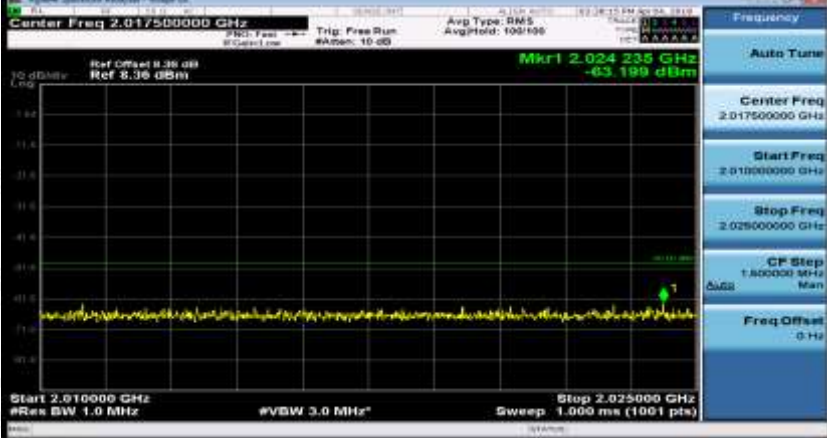
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General			
General			
General			

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General			
Co-existence			
Co-existence			

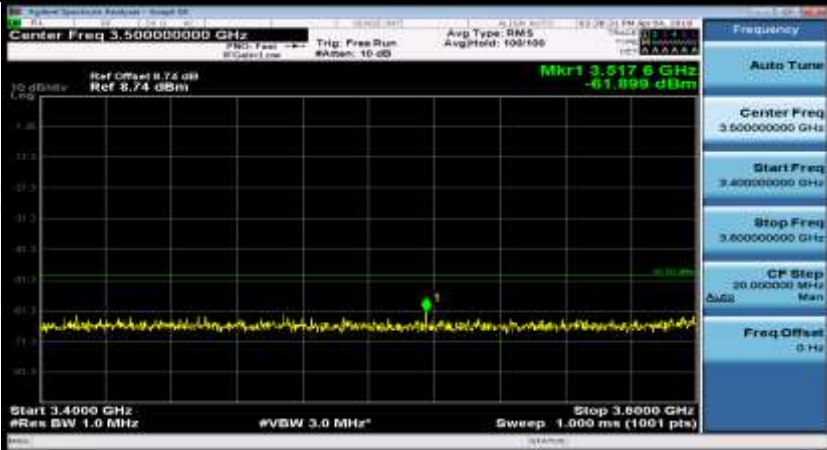

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Co-existence	
Co-existence	
Co-existence	

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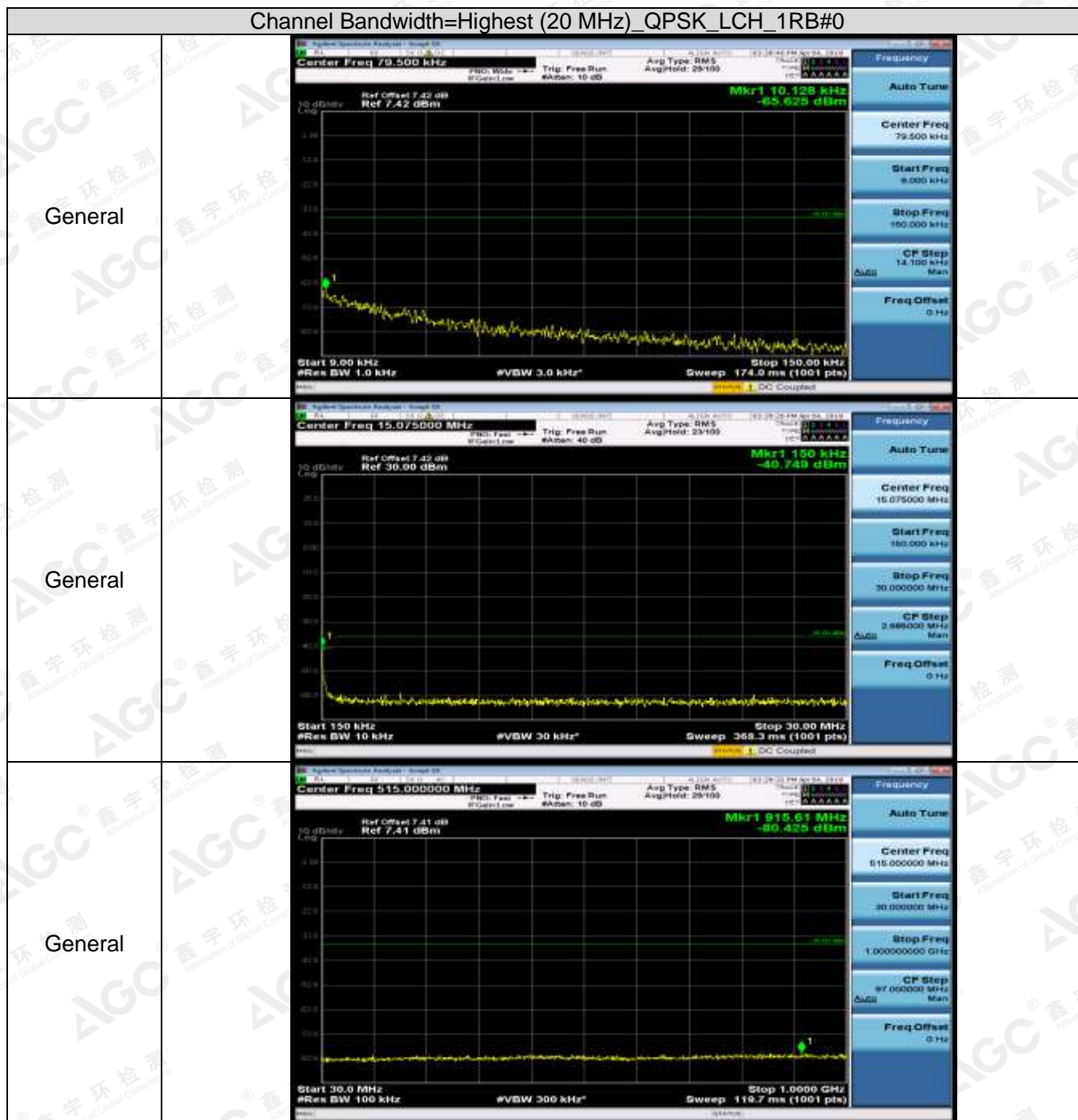
Co-existence	
Co-existence	
Co-existence	

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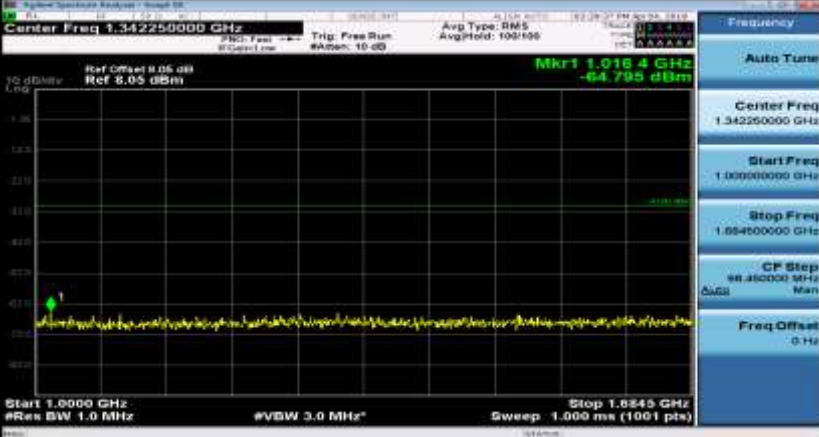


Co-existence	
Co-existence	
Additional	NA

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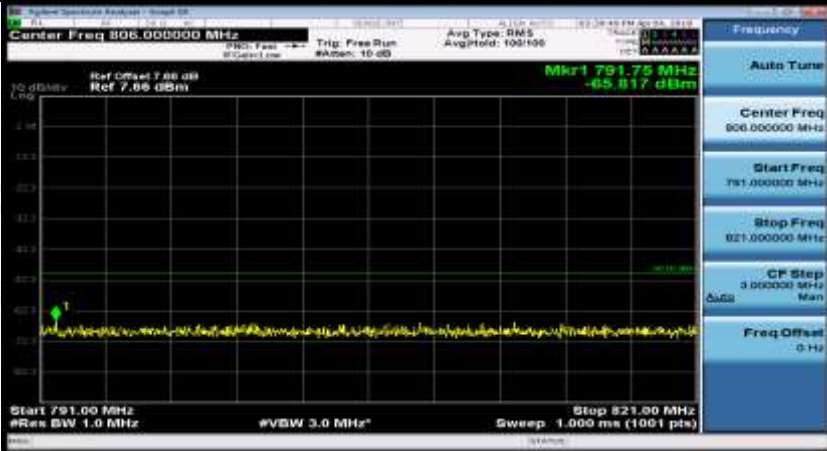
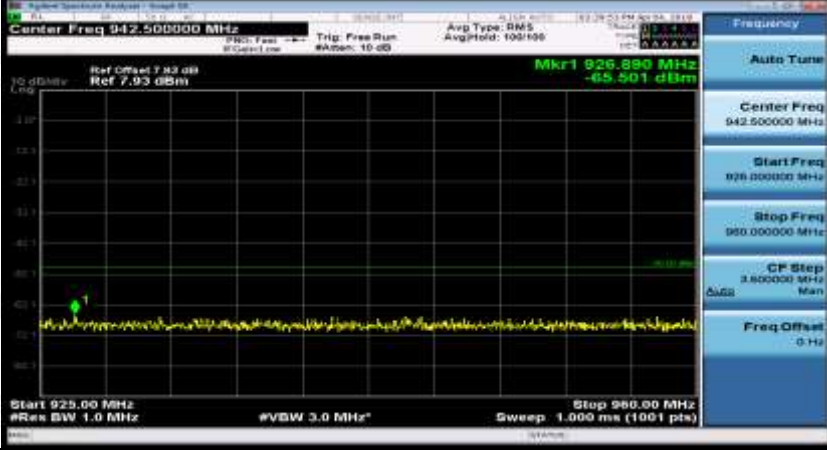
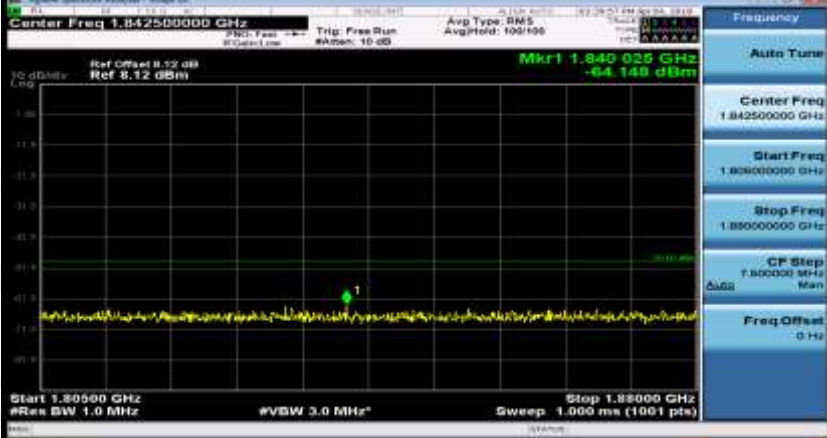
Channel Bandwidth= (20 MHz)



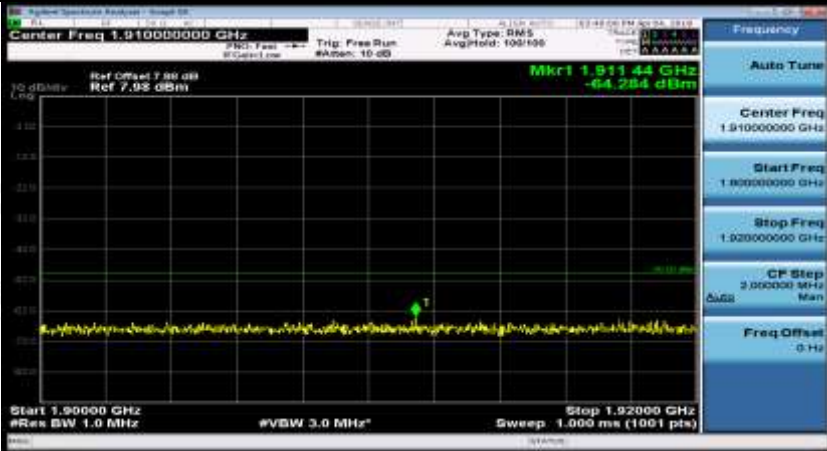
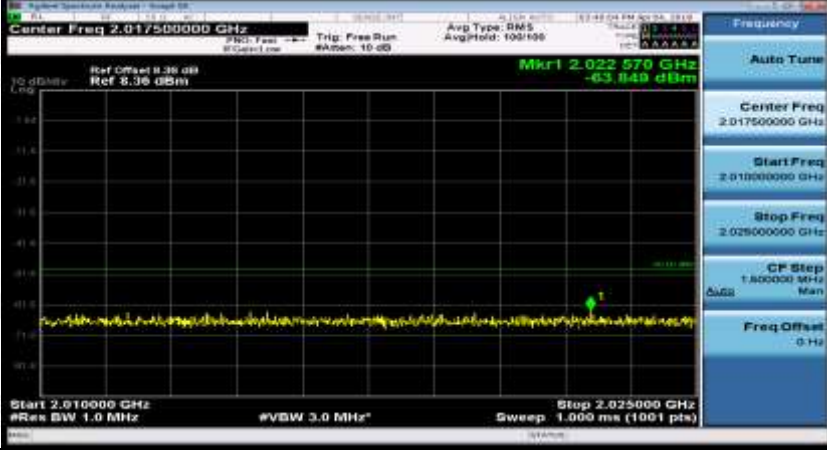
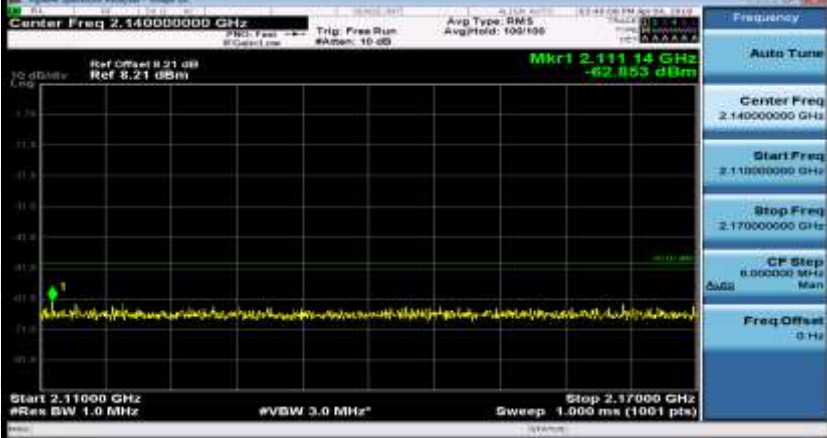
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General		 <p>Center Freq 1.342250000 GHz Ref Offset 0.05 dB Ref 8.05 dBm Mkr1 1.0164 GHz -64.795 dBm Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 1.6545 GHz Sweep 1.000 ms (1001 pts)</p>	
General		 <p>Center Freq 3.377500000 GHz Ref Offset 0.10 dB Ref 8.19 dBm Mkr1 2.567 GHz -66.002 dBm Start 1.756 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 5.800 GHz Sweep 5.467 ms (1001 pts)</p>	
General		 <p>Center Freq 8.875000000 GHz Ref Offset 0.30 dB Ref 8.38 dBm Mkr1 9.31675 GHz -64.905 dBm Start 5.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 12.750 GHz Sweep 12.93 ms (1001 pts)</p>	

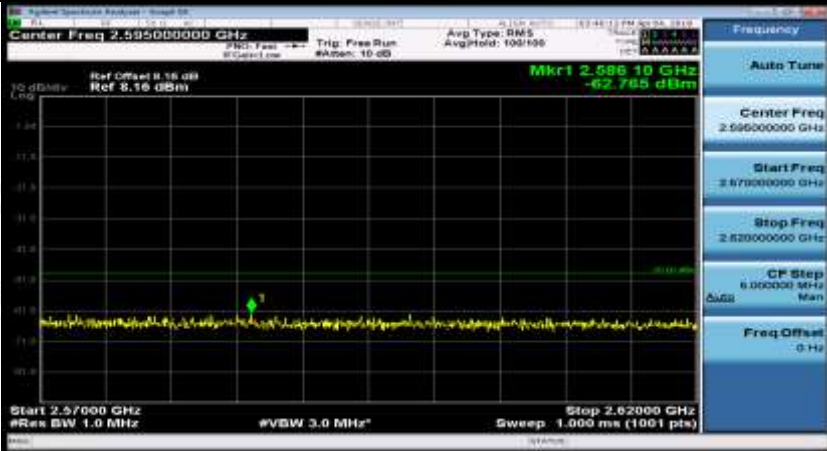
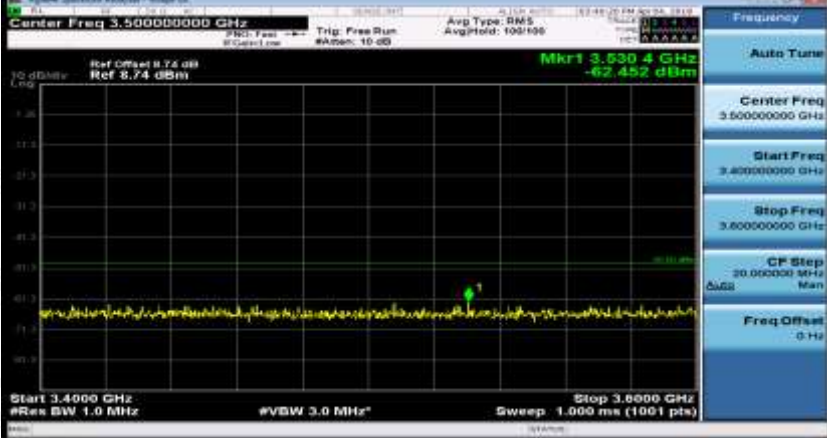
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Co-existence	
Co-existence	
Co-existence	

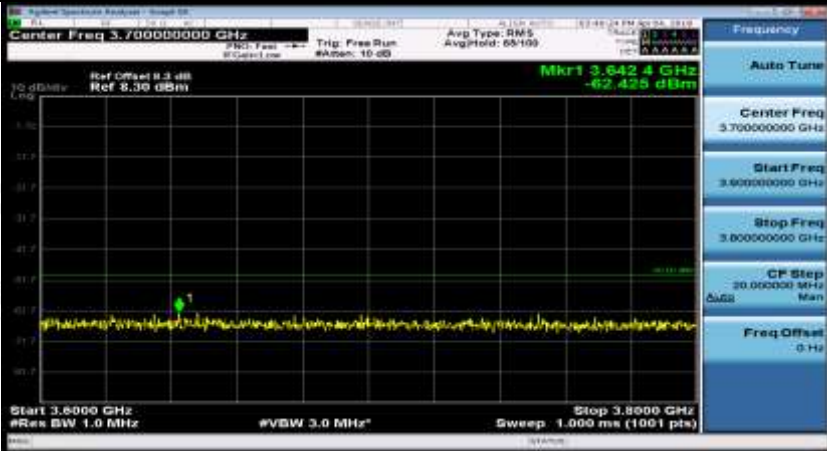
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

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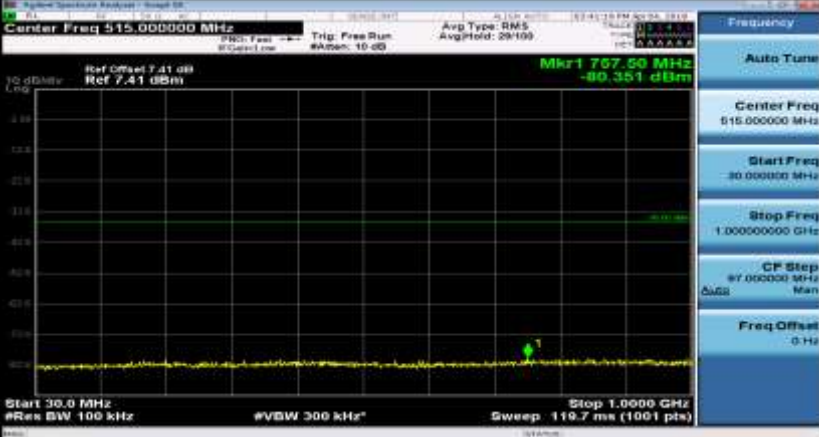
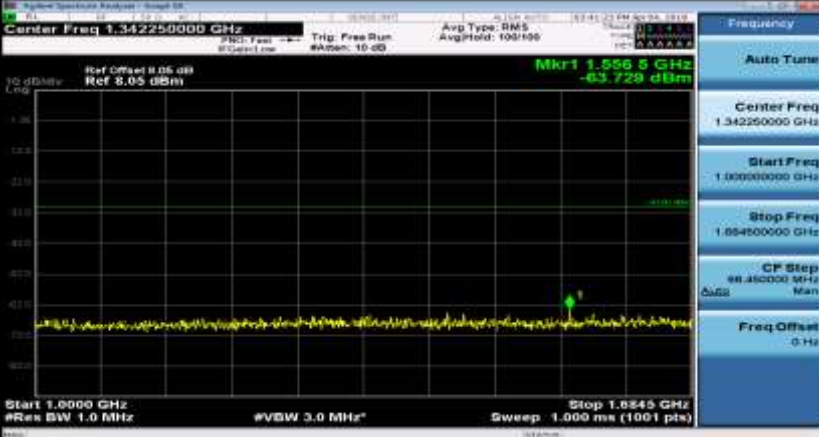

Co-existence	
Co-existence	
Co-existence	

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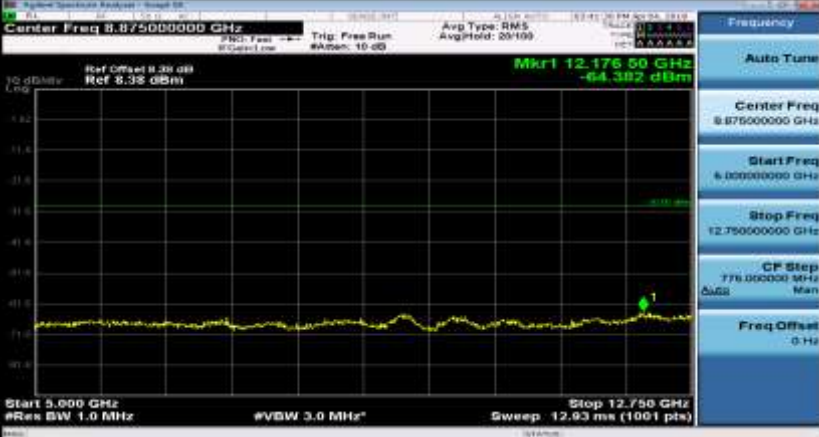
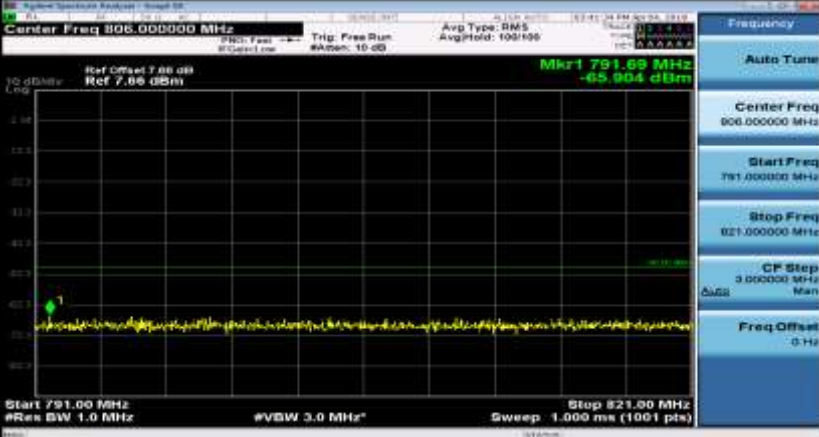
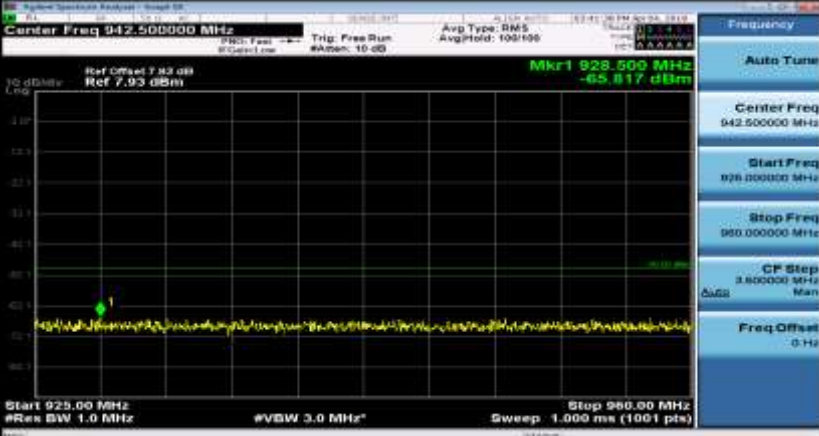
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20MHz)_QPSK_LCH_1RB#max	
General	
General	

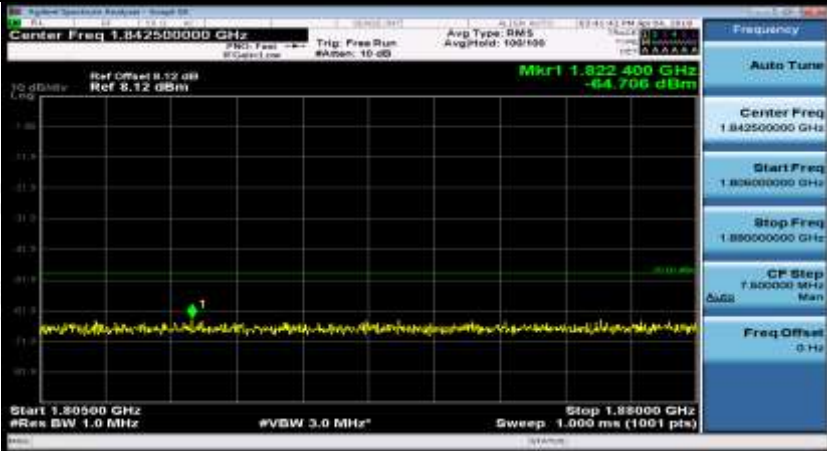
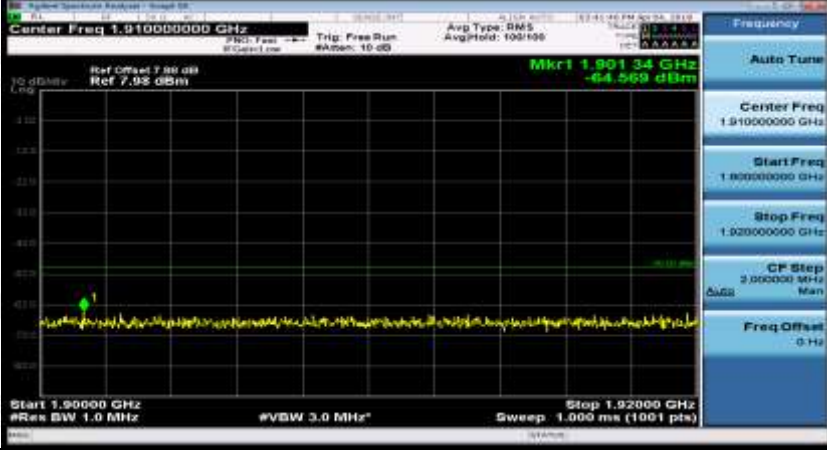
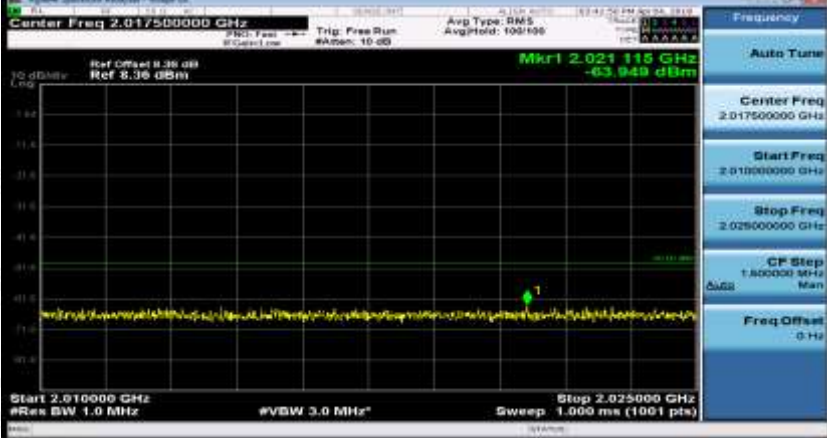
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General			
General			
General			

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General			
Co-existence			
Co-existence			

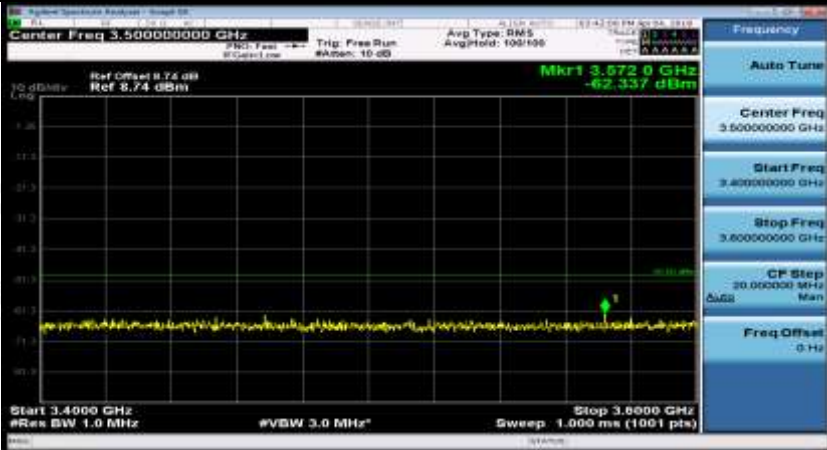
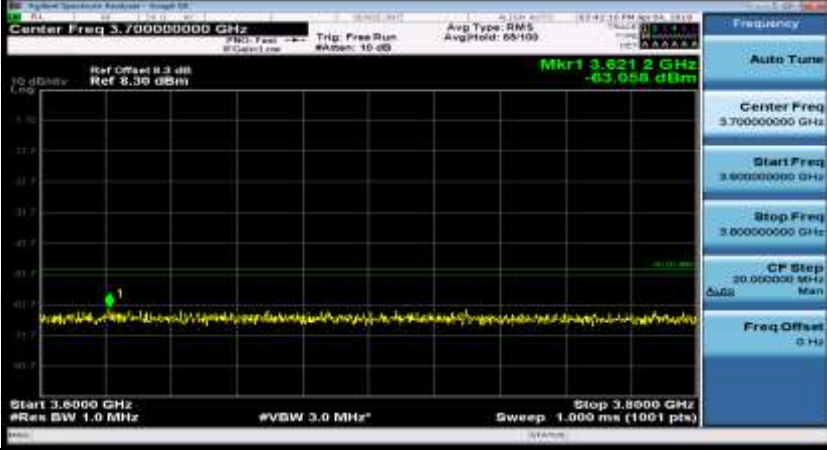
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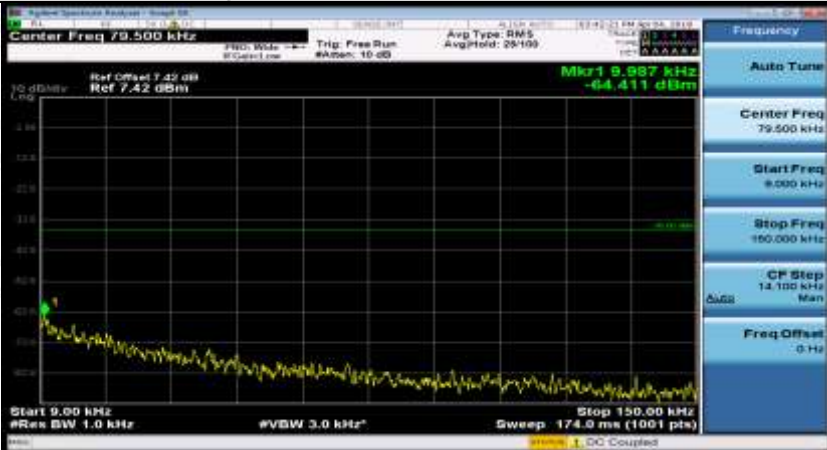
Co-existence	
Co-existence	
Co-existence	

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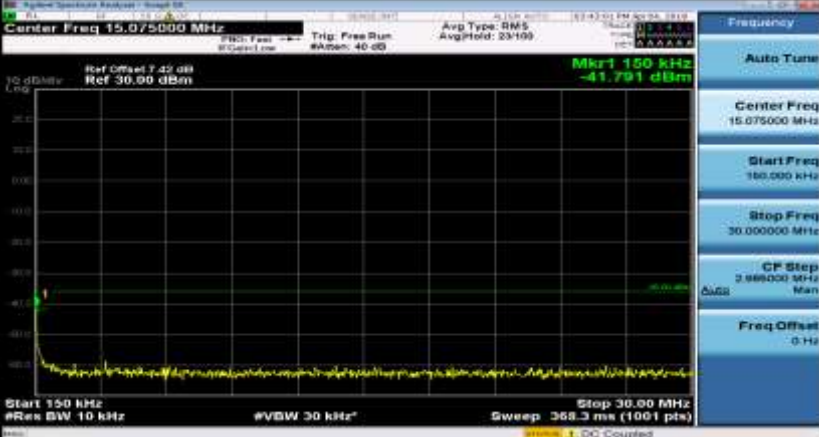
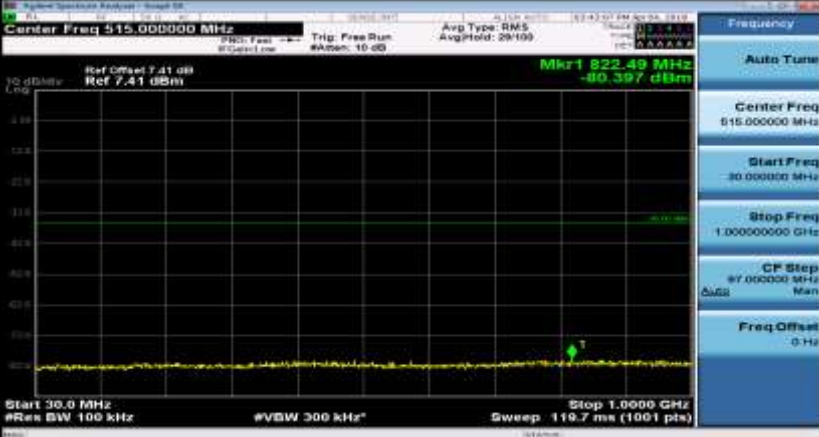
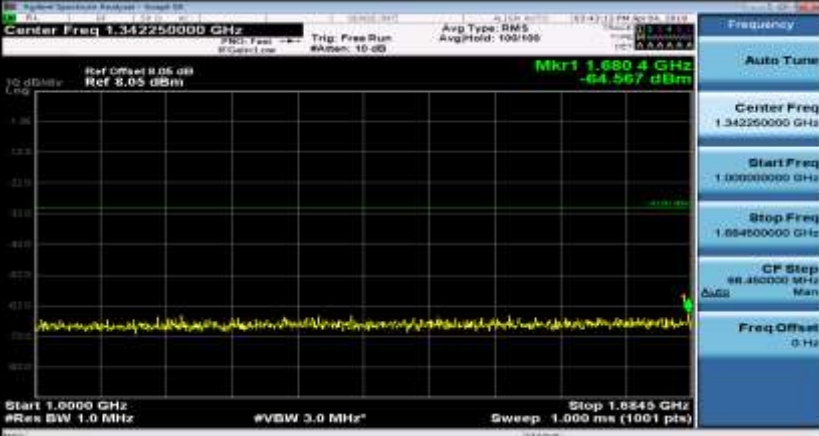
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_FullRB#0	
General	

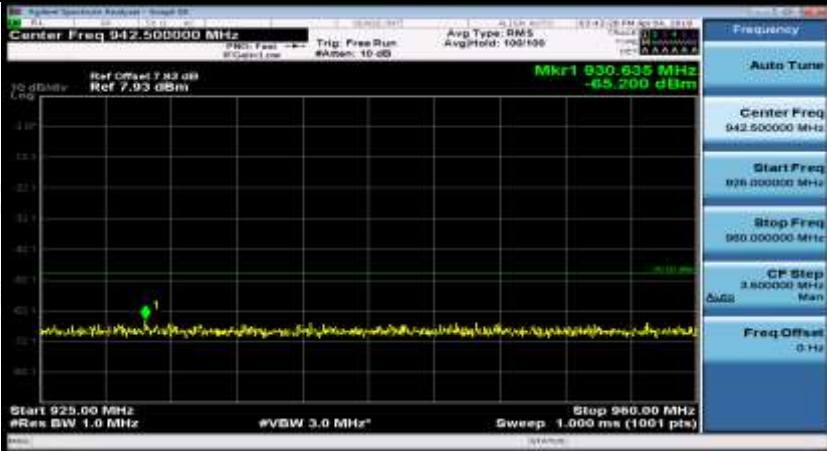
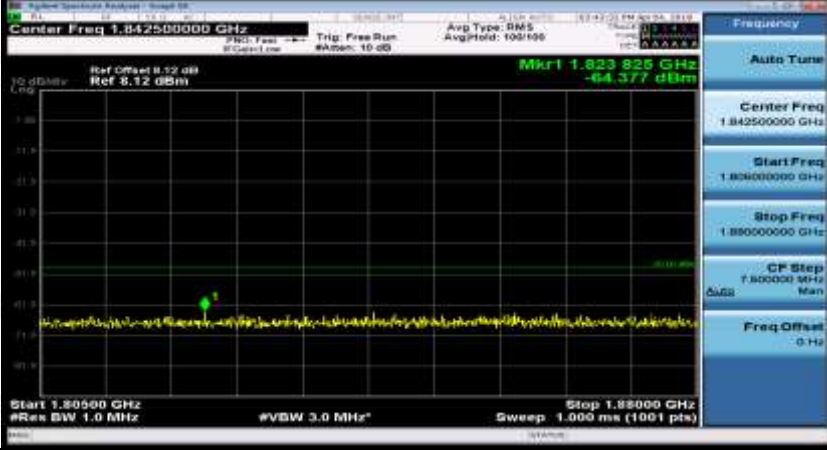
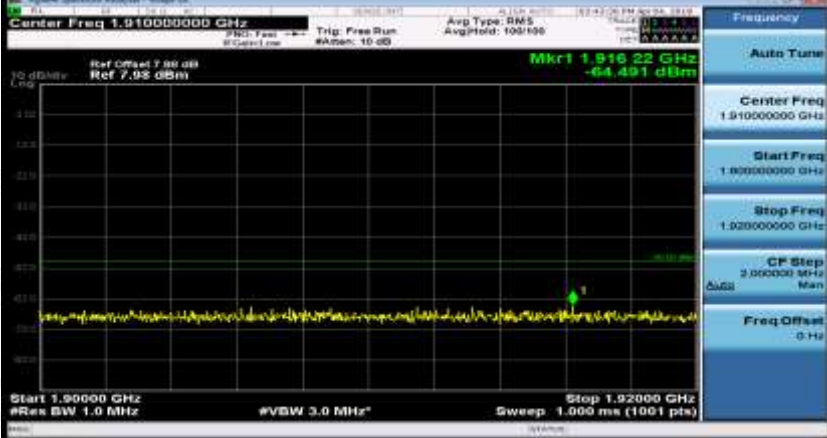
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General			
General			
General			

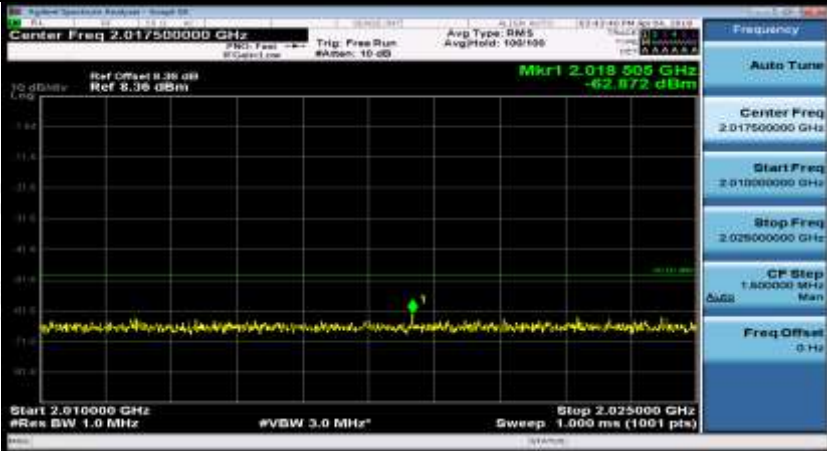
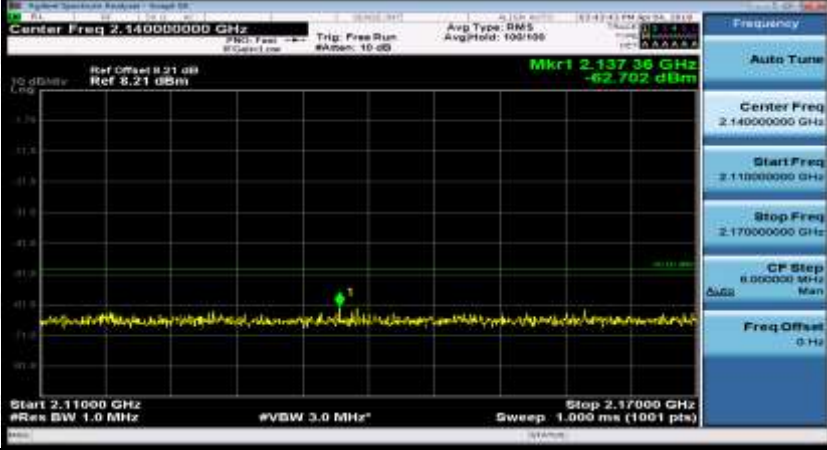
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General			
General			
Co-existence			

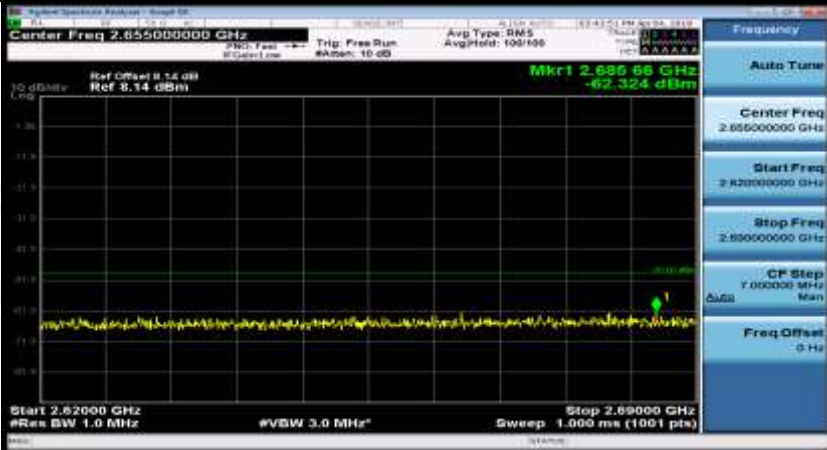
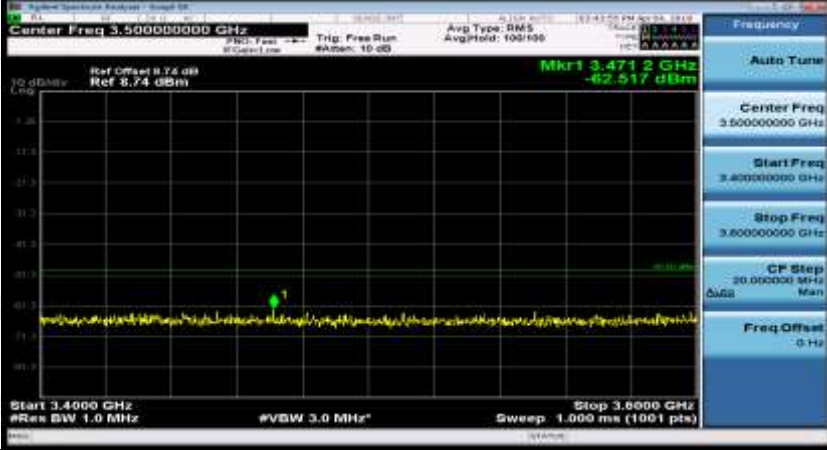

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Co-existence	
Co-existence	
Co-existence	

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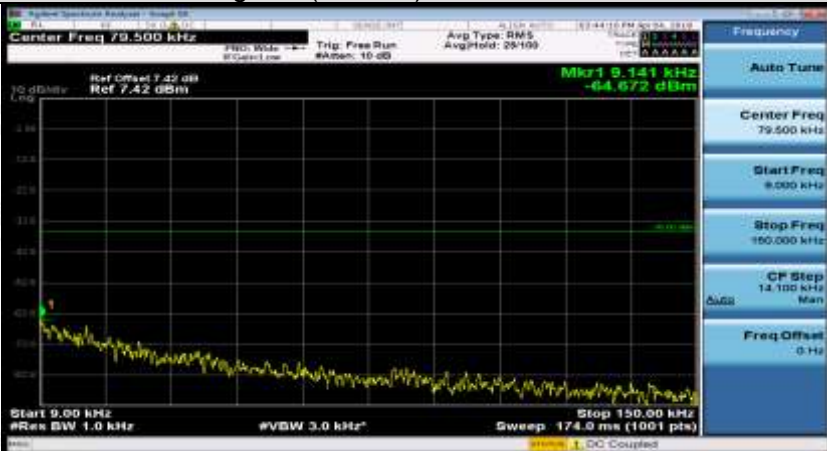
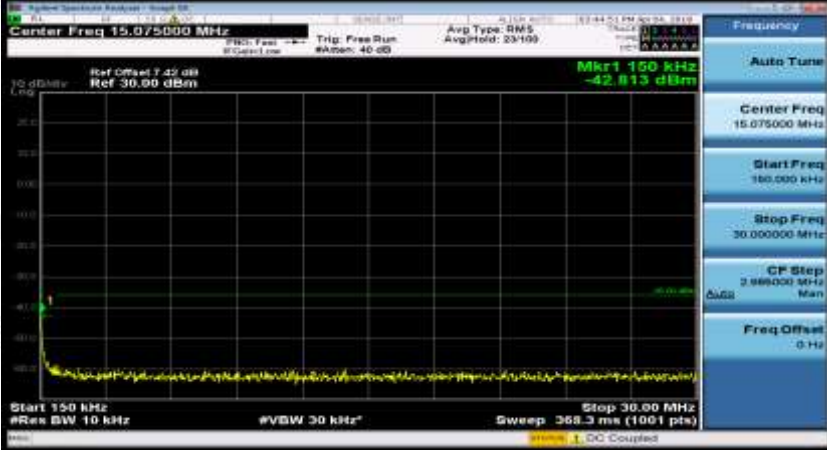

Co-existence	
Co-existence	
Co-existence	

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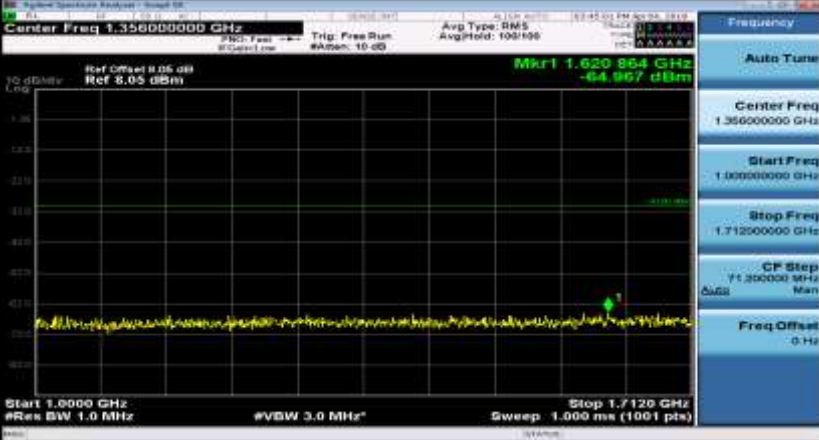

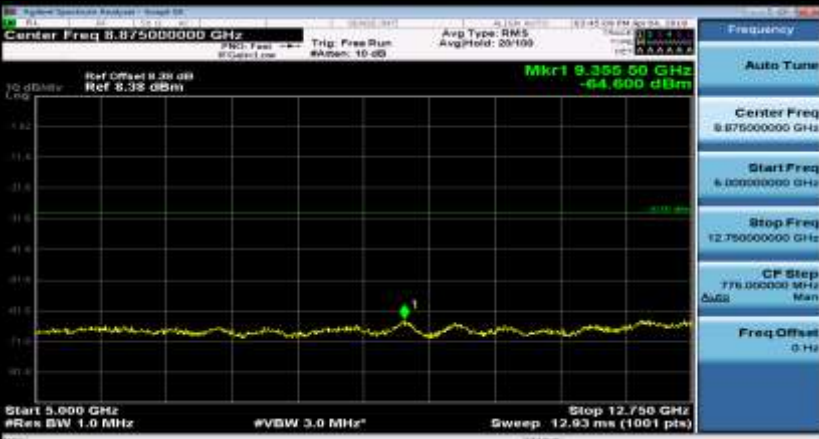
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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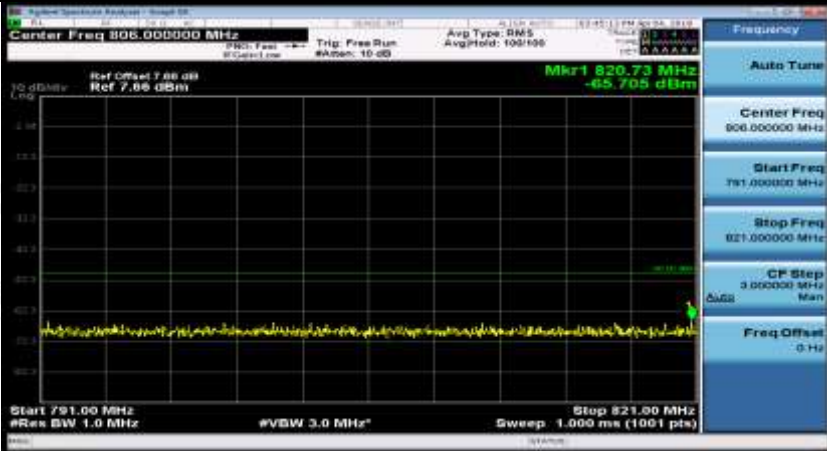
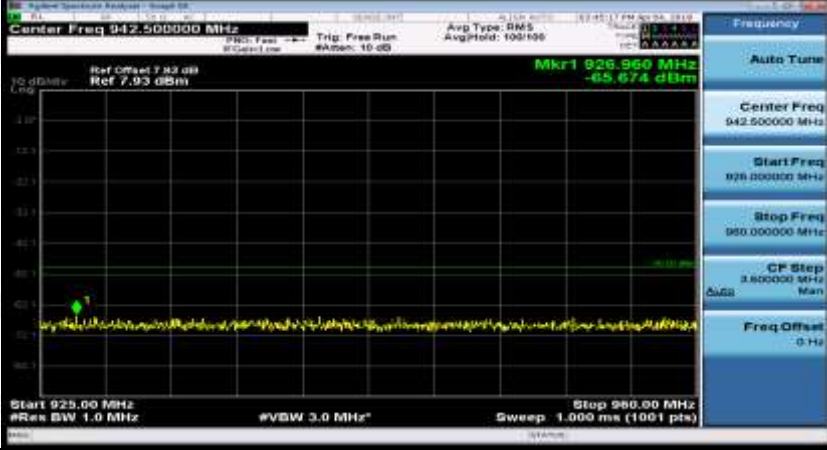
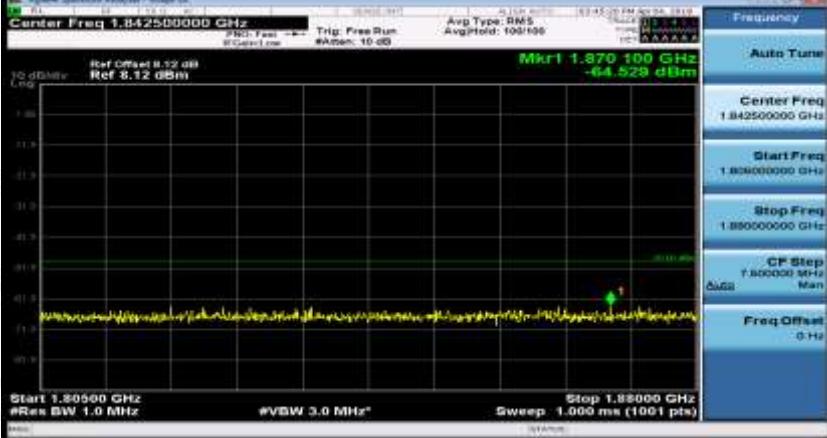
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#0

General	
General	
General	

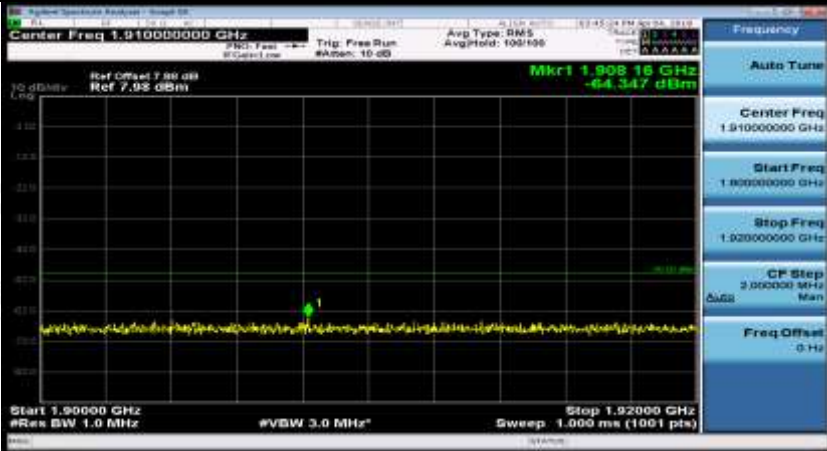
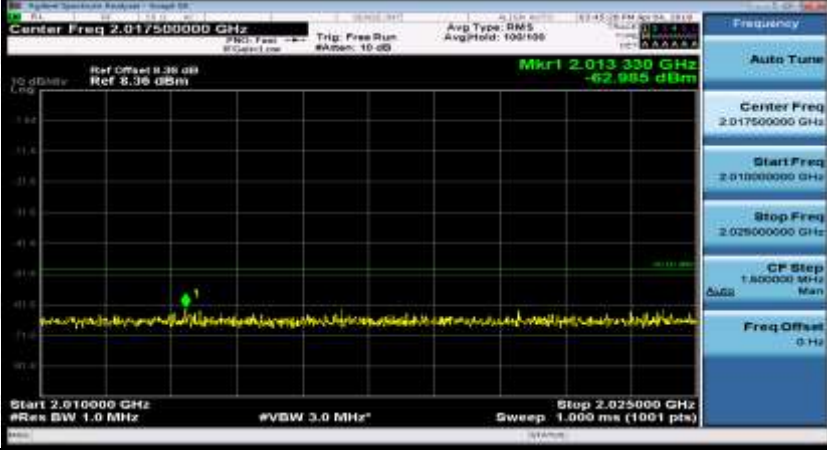
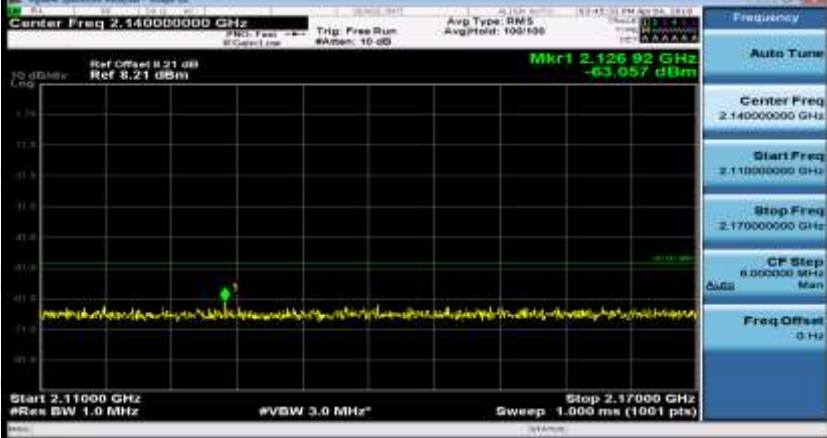
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General			
General			
General			

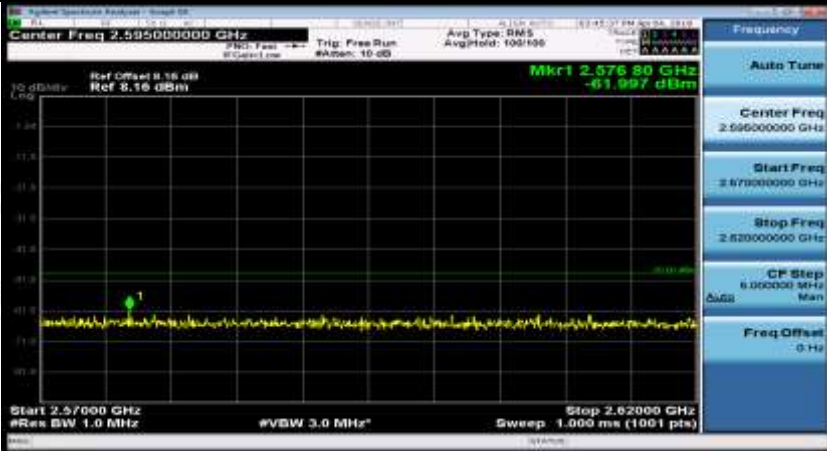
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Co-existence	
Co-existence	
Co-existence	

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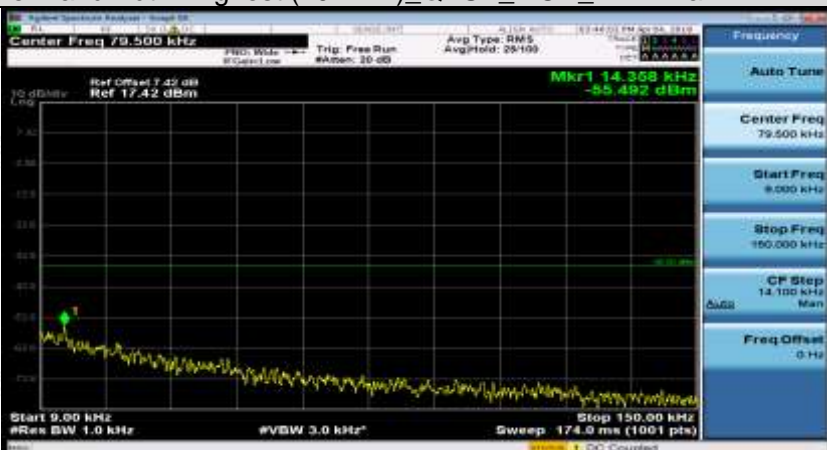

Co-existence	
Co-existence	
Co-existence	

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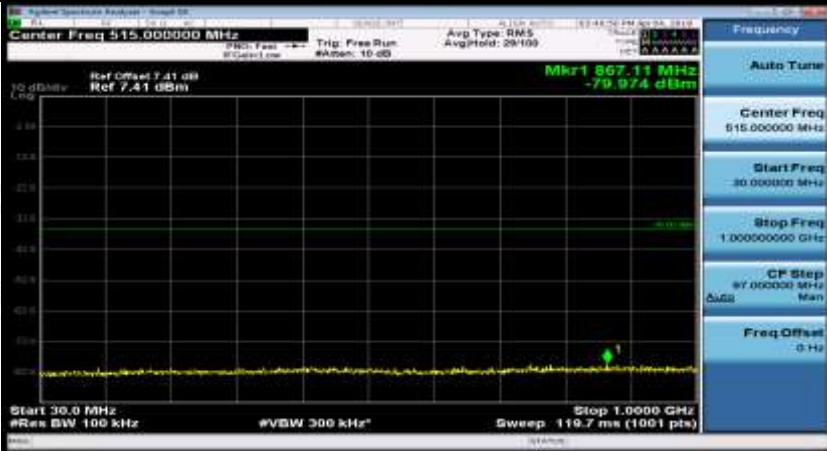
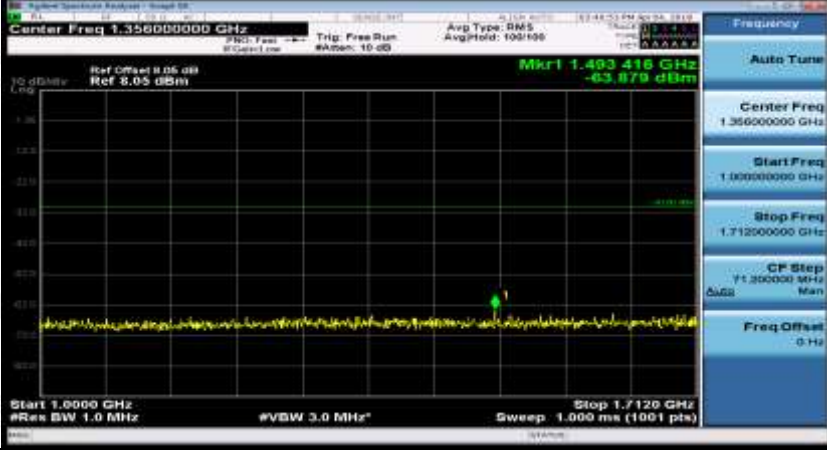
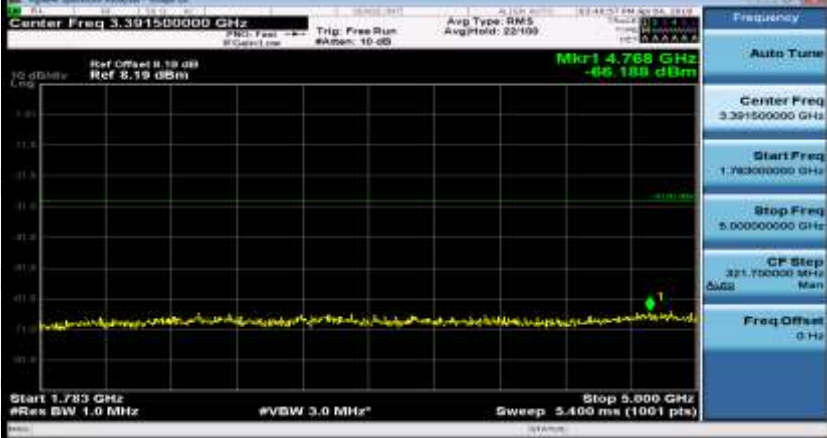
Co-existence	
Co-existence	
Co-existence	

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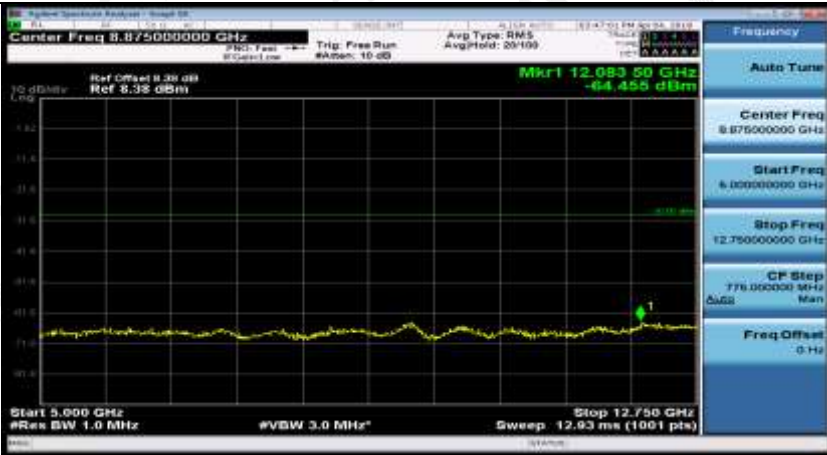
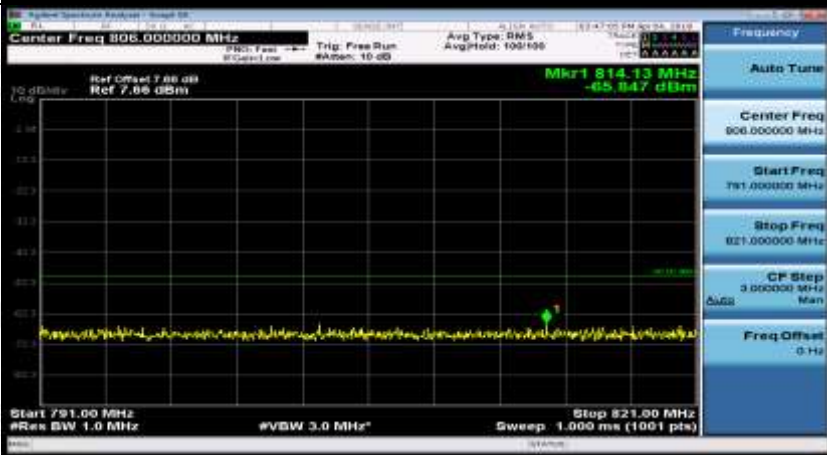
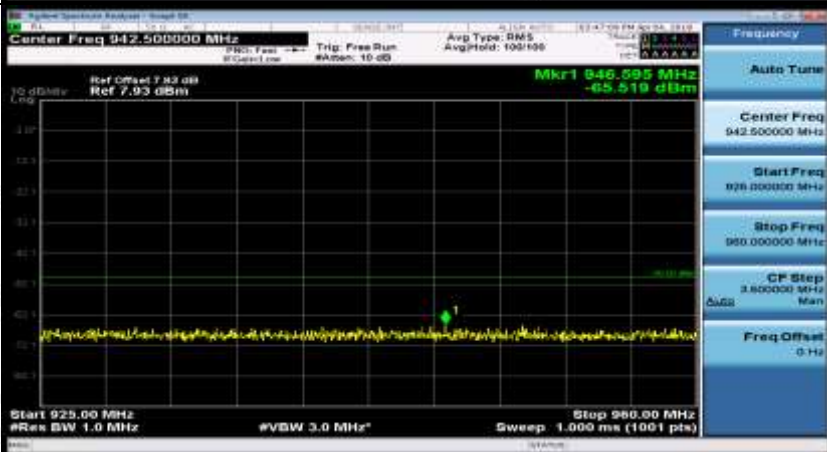
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#max	
General	
General	

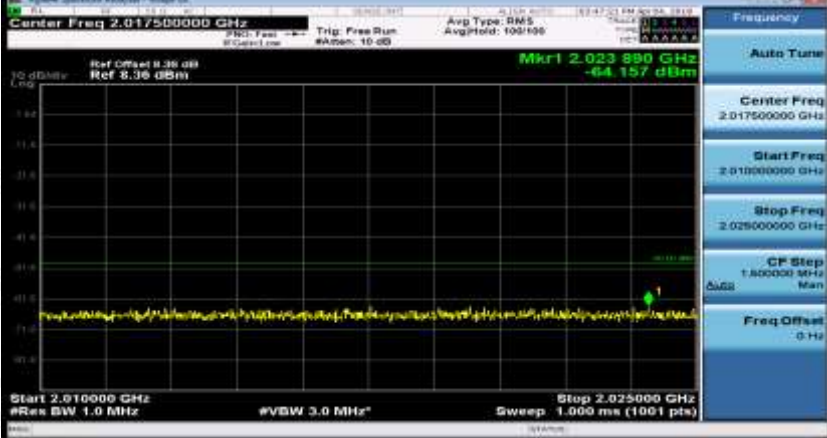
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General	
General	
General	

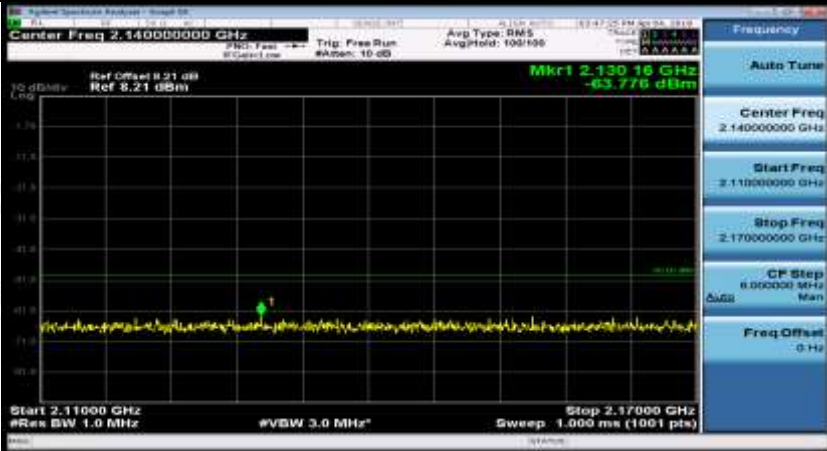
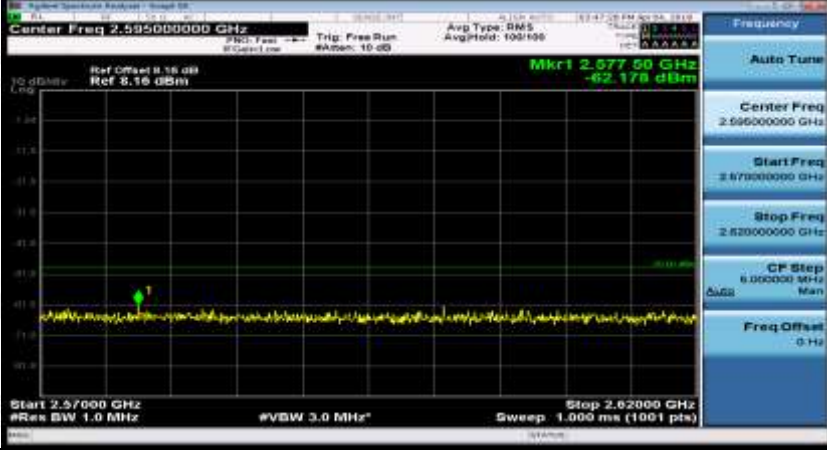

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General	
Co-existence	
Co-existence	

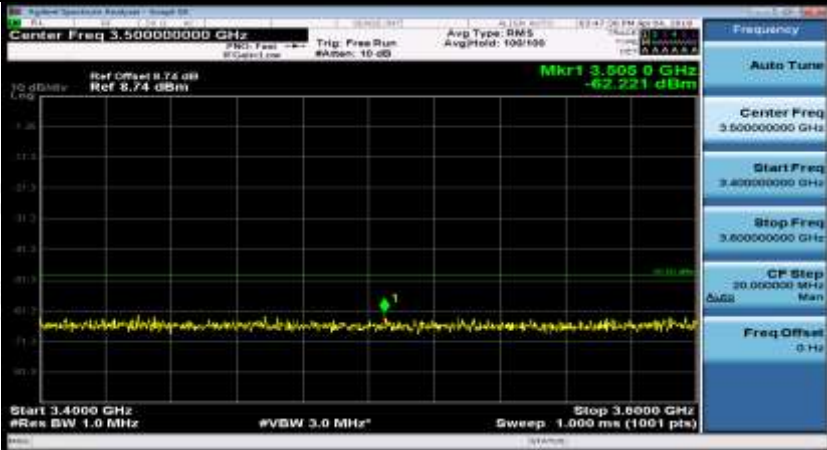
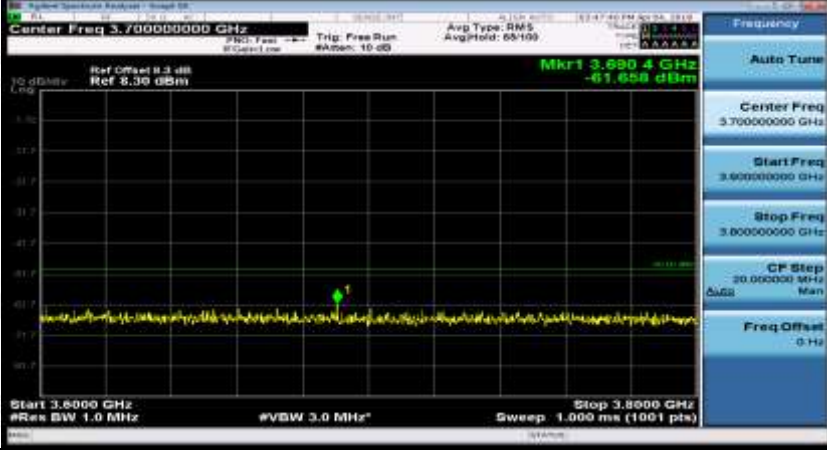
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

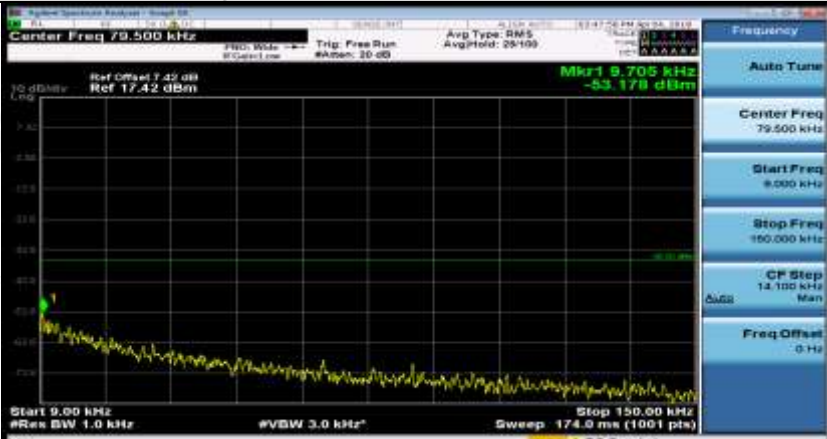
Co-existence	
Co-existence	
Co-existence	

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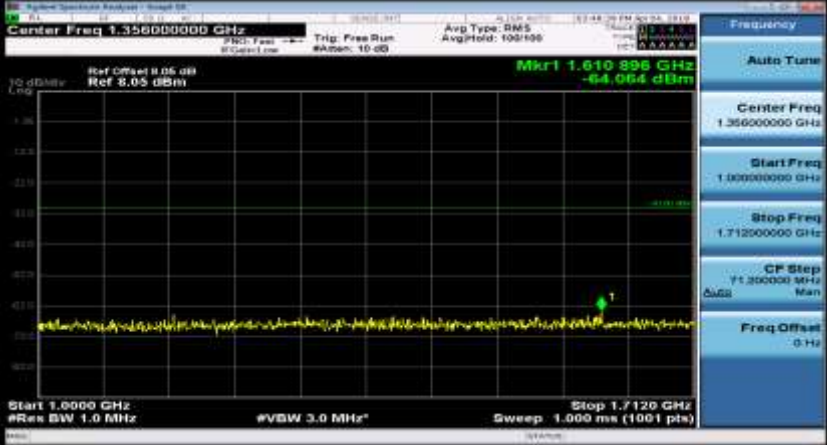
Co-existence	
Co-existence	
Co-existence	

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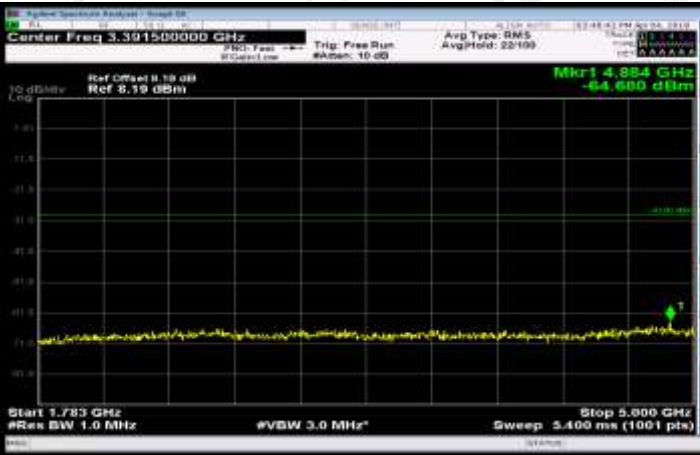

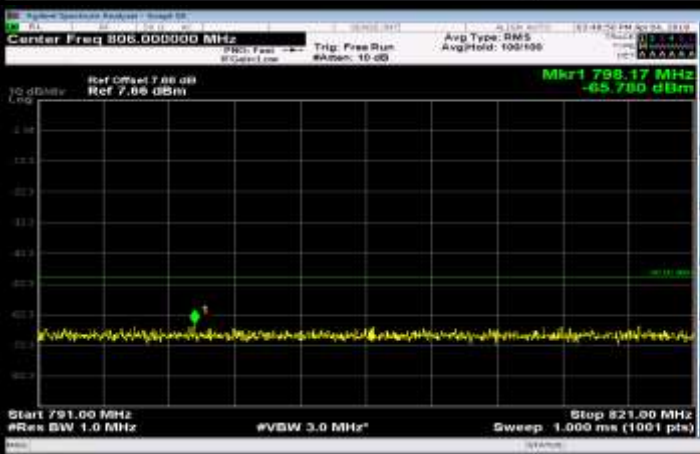
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_FullIRB#0	
General	

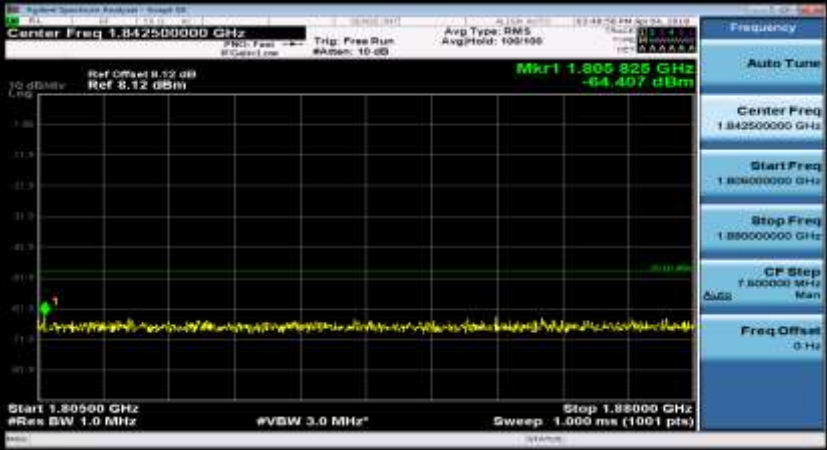
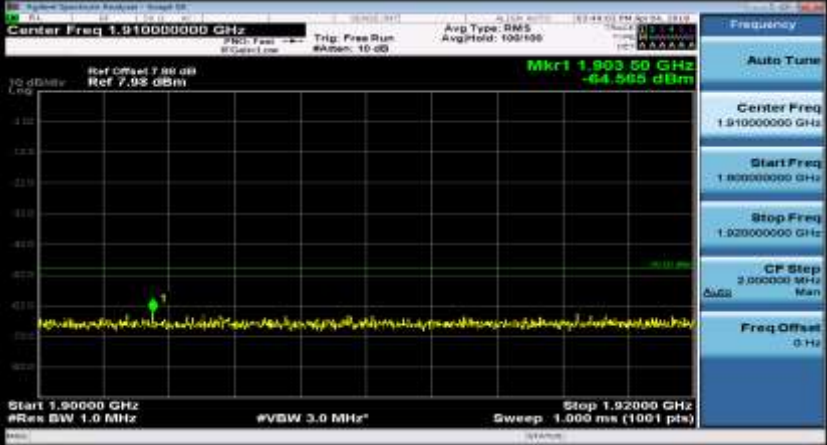
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General	
General	
General	


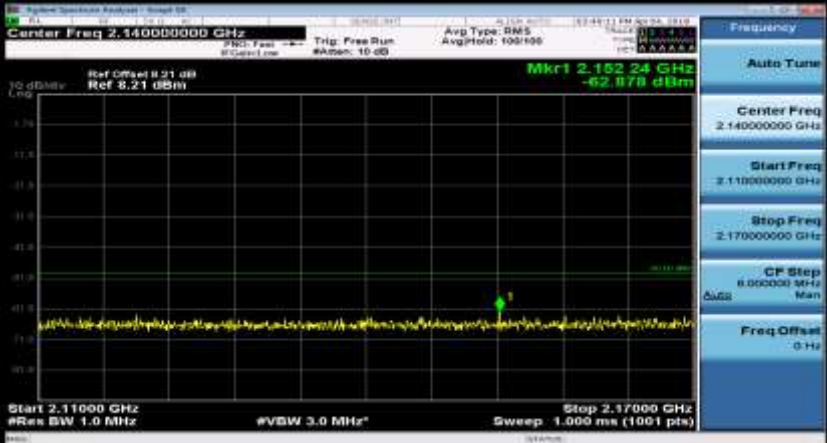
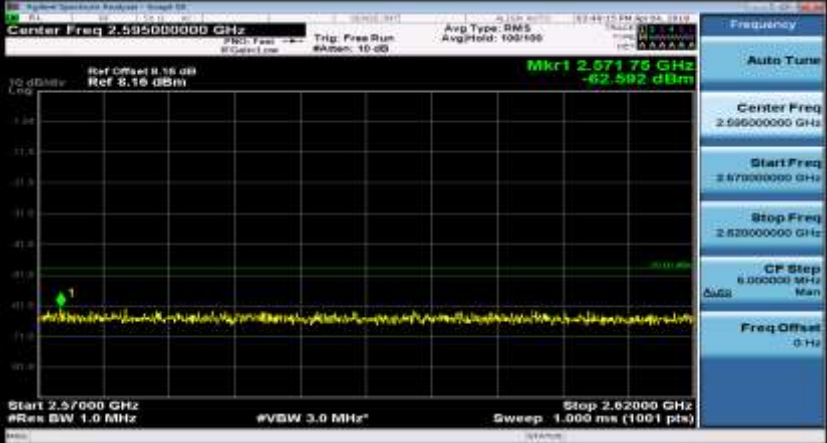
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.391500000 GHz</p> <p>Start Freq 1.783000000 GHz</p> <p>Stop Freq 5.000000000 GHz</p> <p>CF Step 321.750000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.875000000 GHz</p> <p>Start Freq 6.000000000 GHz</p> <p>Stop Freq 12.750000000 GHz</p> <p>CF Step 776.000000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 806.000000 MHz</p> <p>Start Freq 791.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>

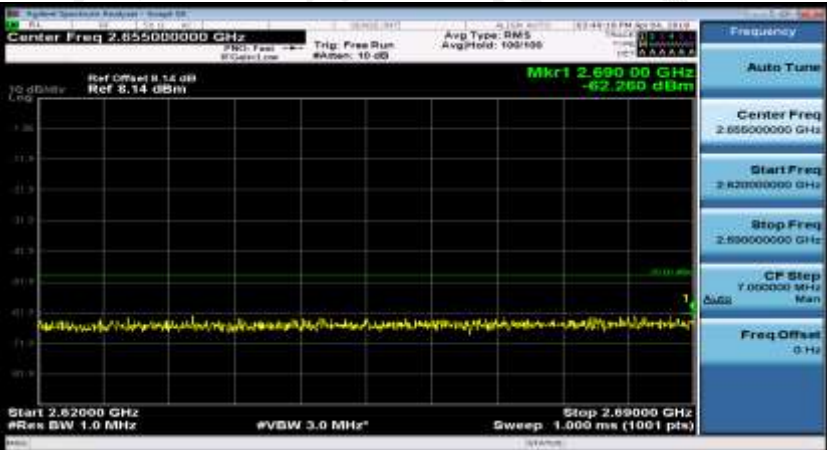
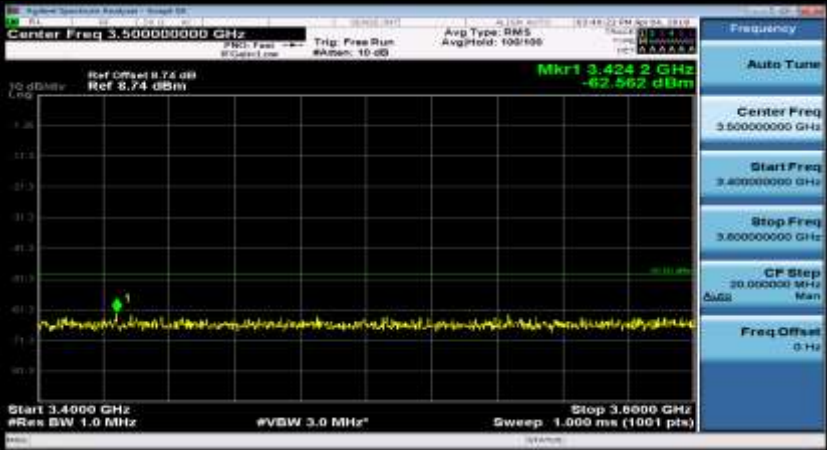
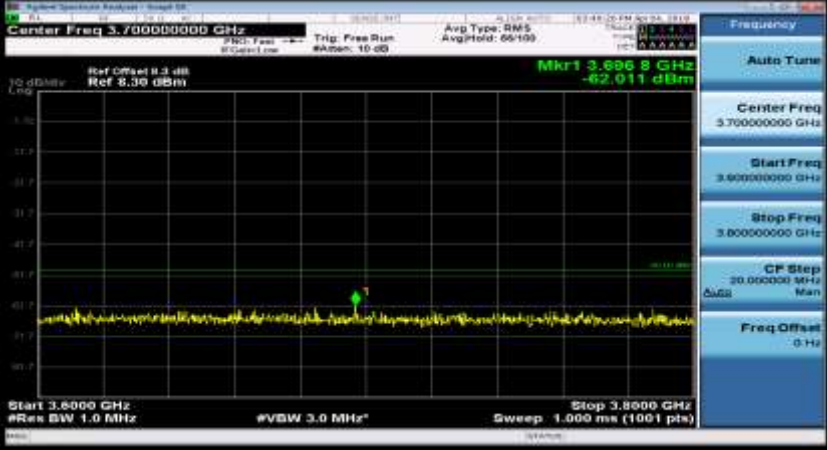
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

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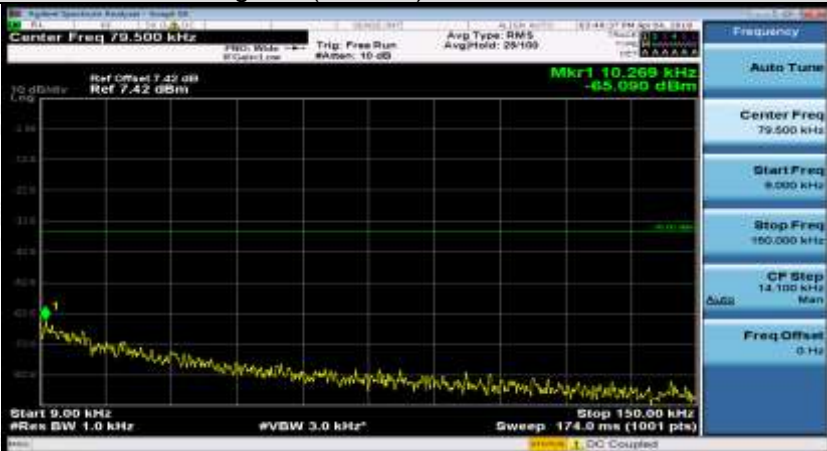
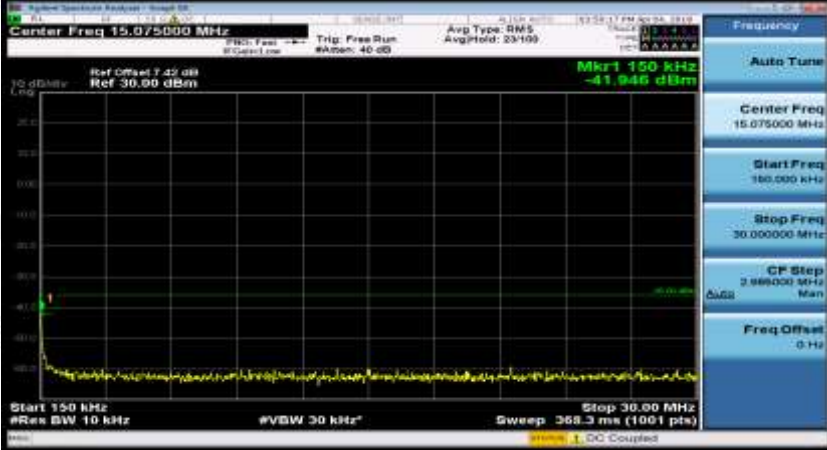
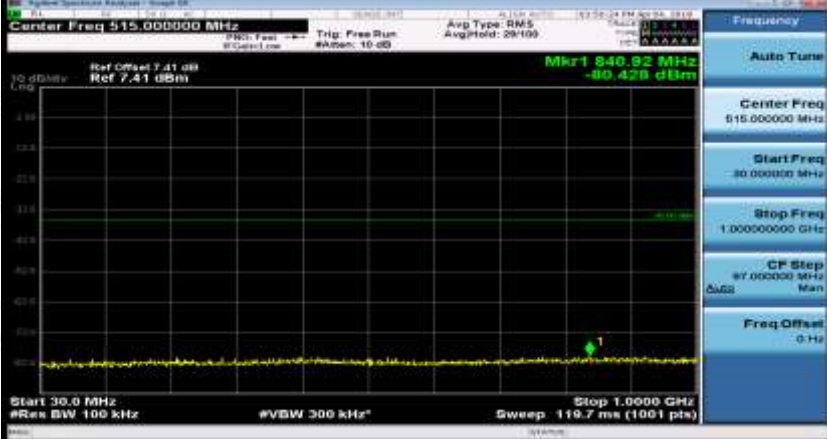
Co-existence	
Co-existence	
Co-existence	

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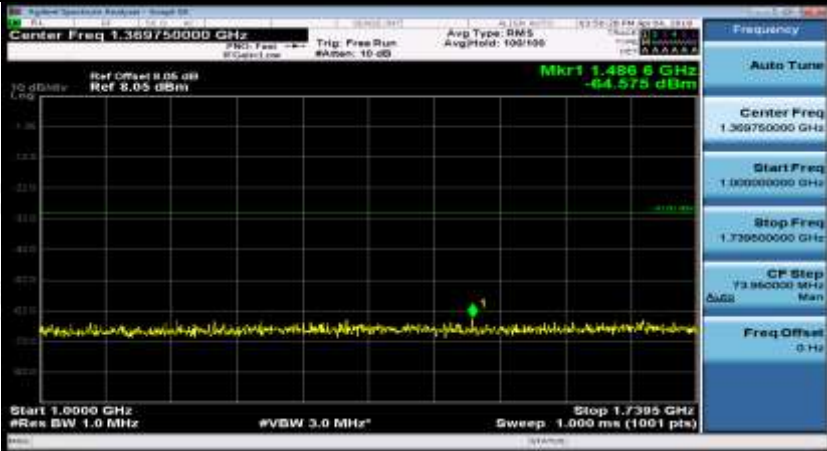
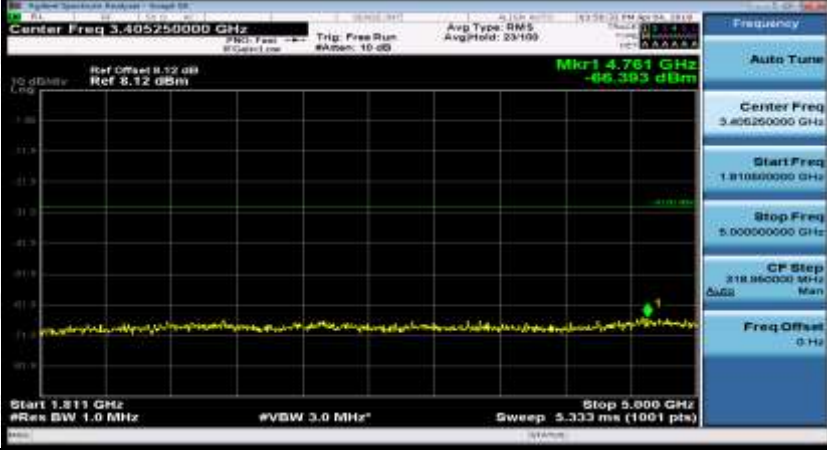

Co-existence	
Co-existence	
Co-existence	
Additional	NA

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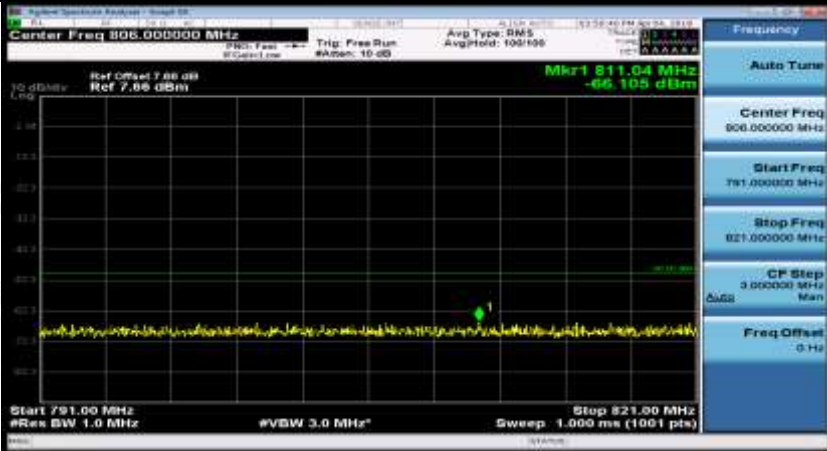
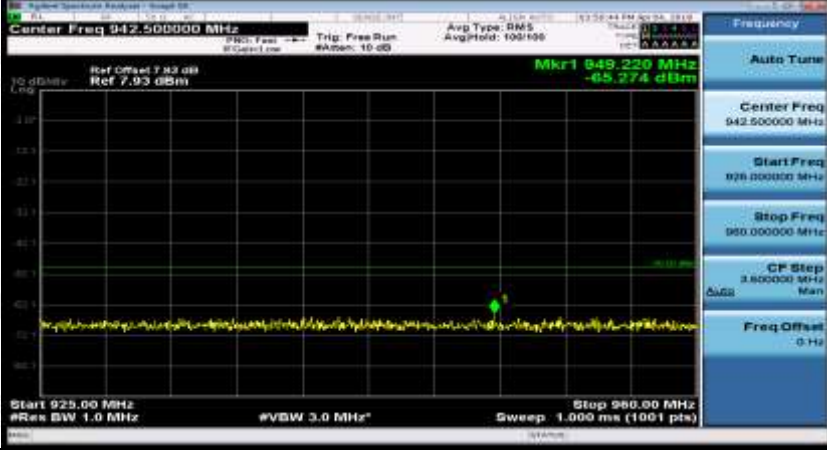
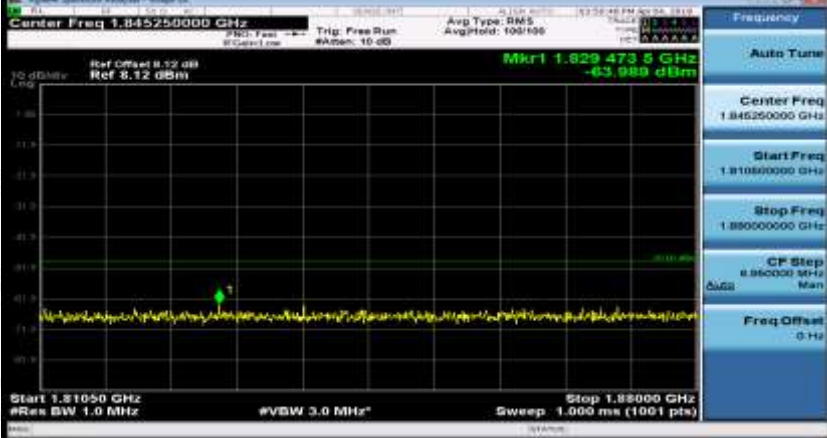
Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#0

General	
General	
General	

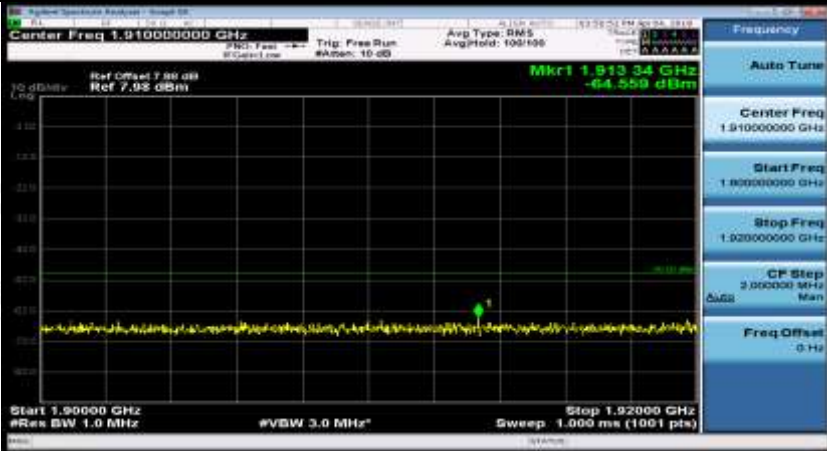
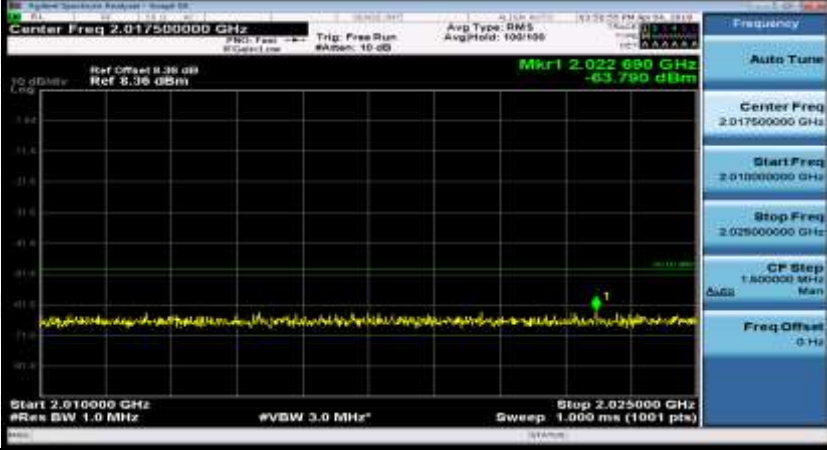
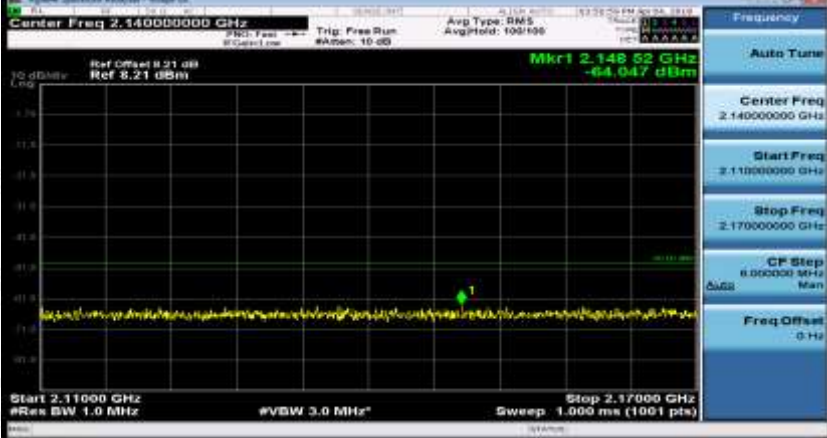
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General	
General	
General	

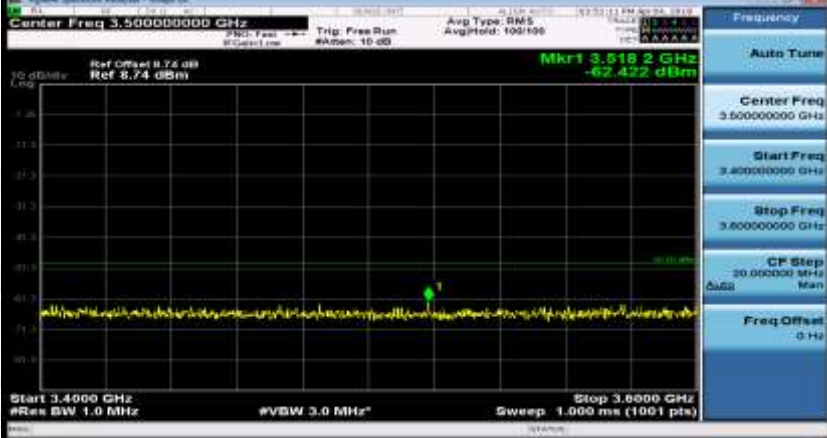
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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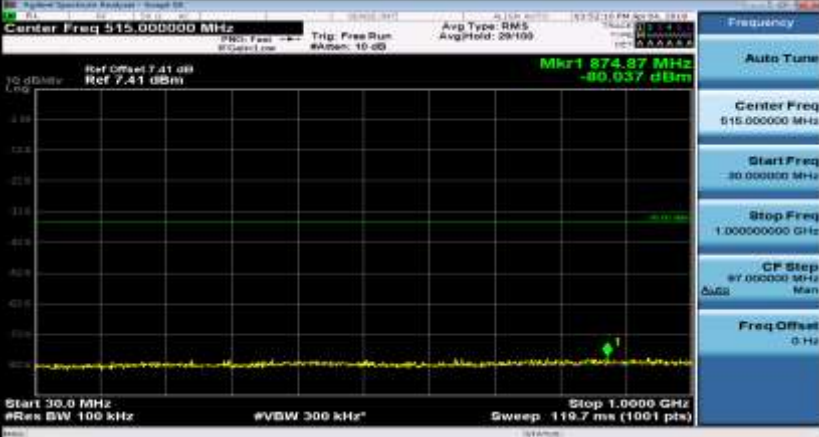
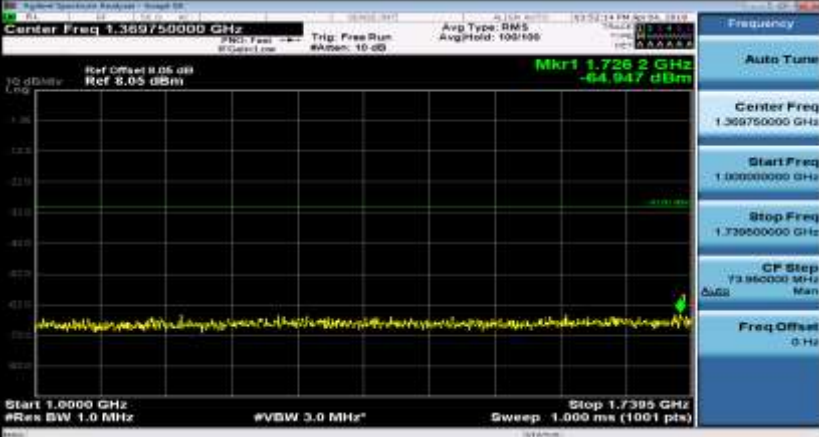

Co-existence	
Co-existence	
Co-existence	

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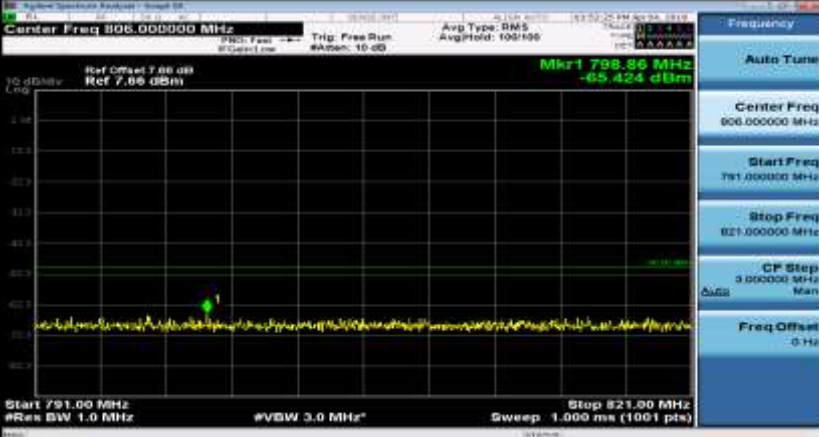
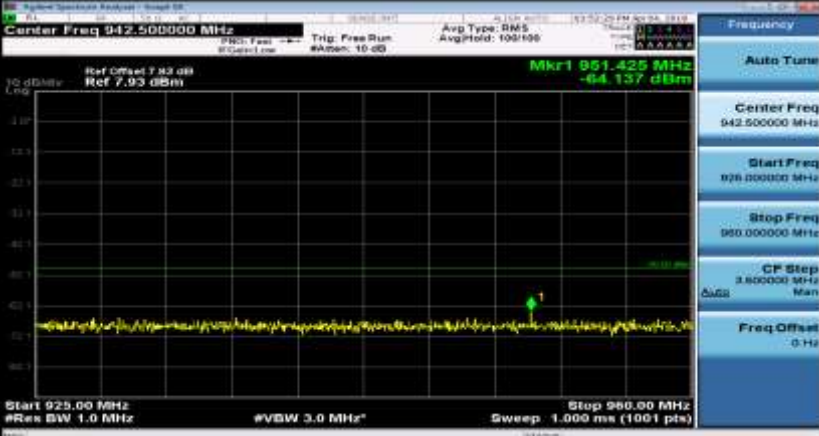
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#max	
General	
General	

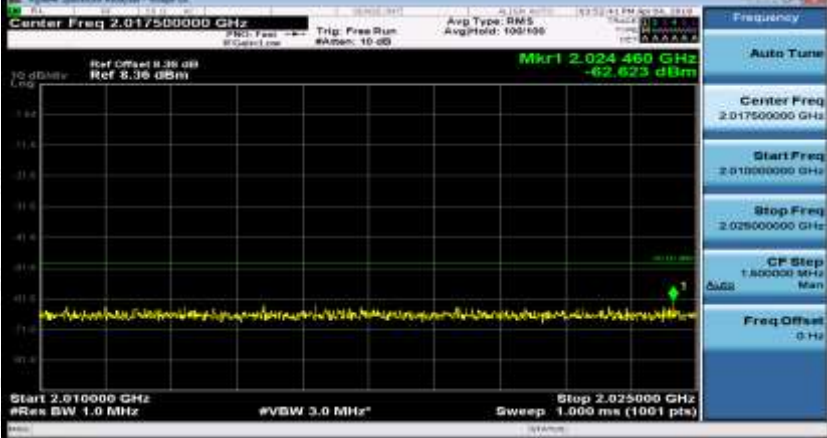
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General			
General			
General			

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General			
Co-existence			
Co-existence			

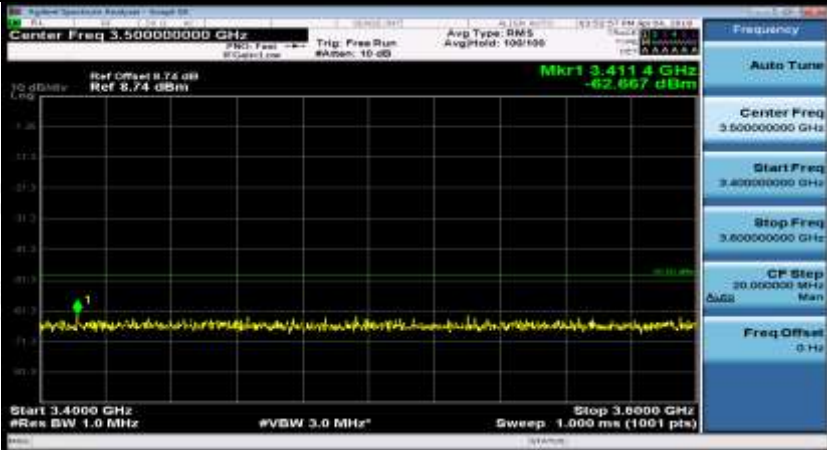

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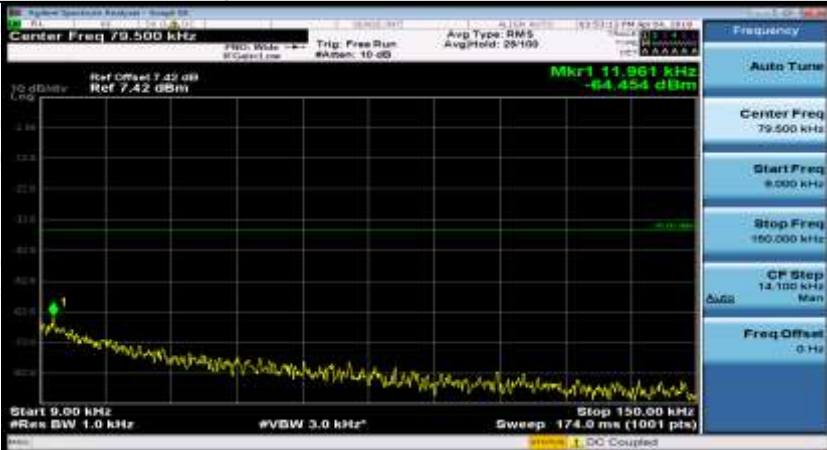
Co-existence	
Co-existence	
Co-existence	

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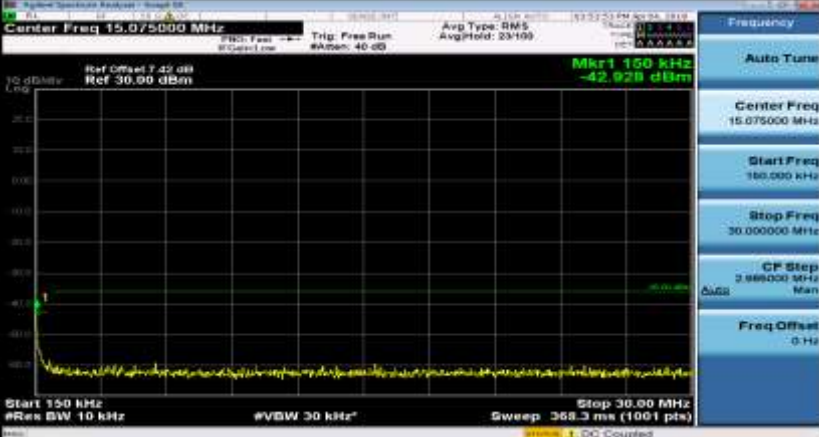
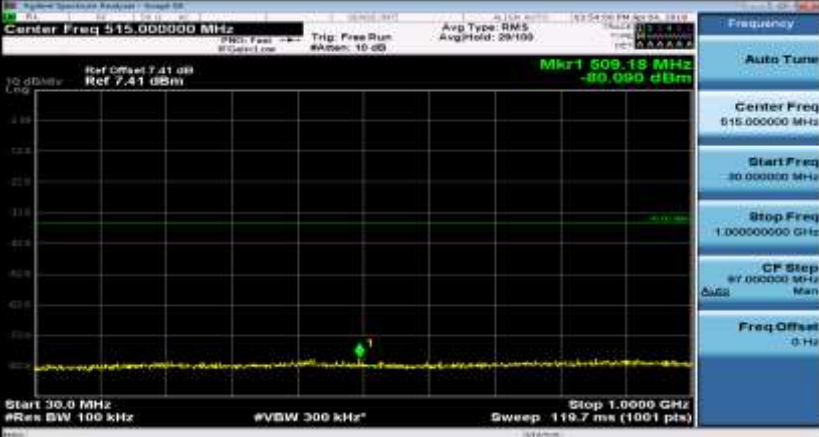
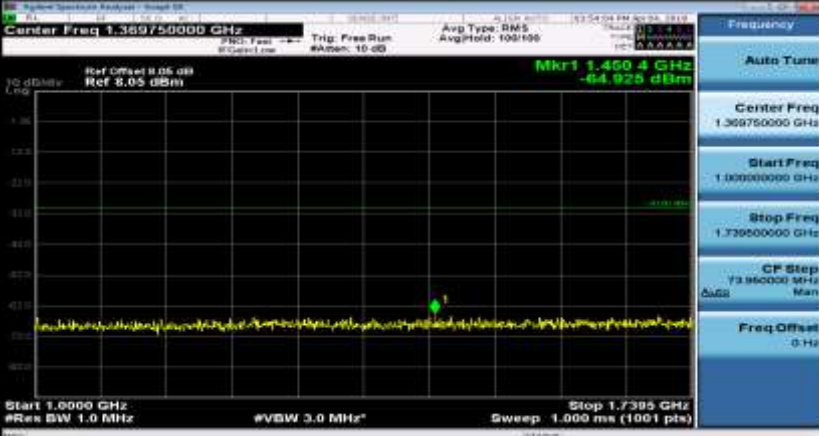
Co-existence	
Co-existence	
Co-existence	

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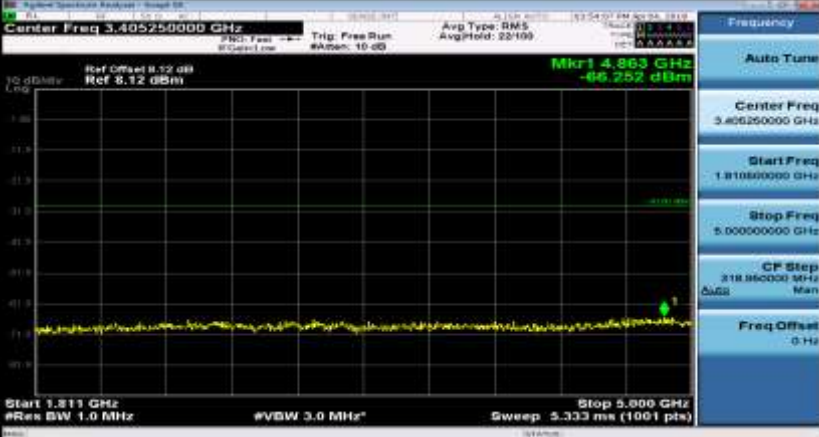
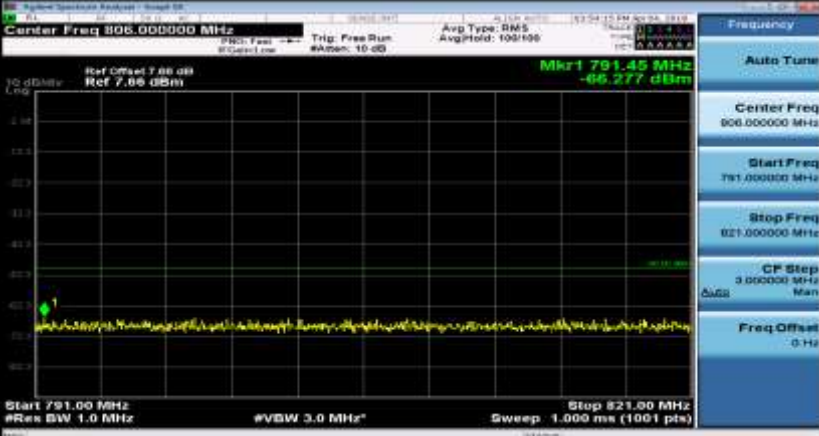
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_FullIRB#0	
General	

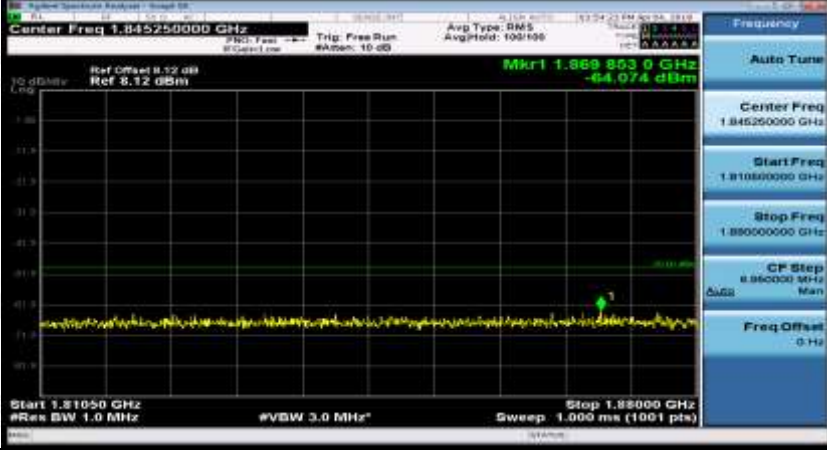
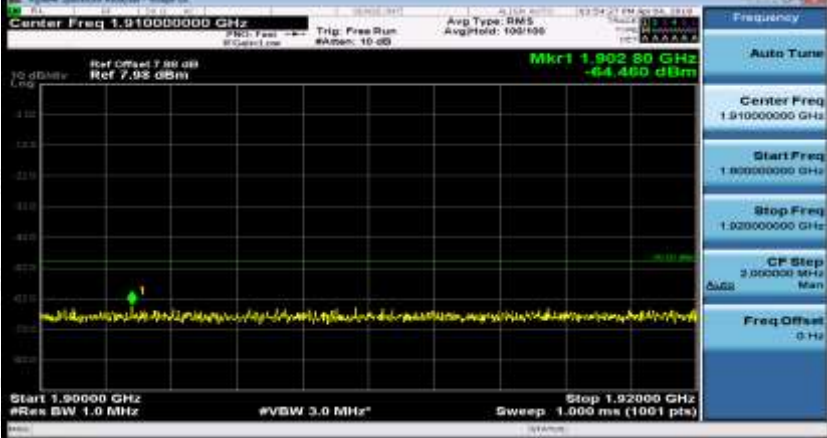
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General			
General			
General			

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General			
General			
Co-existence			

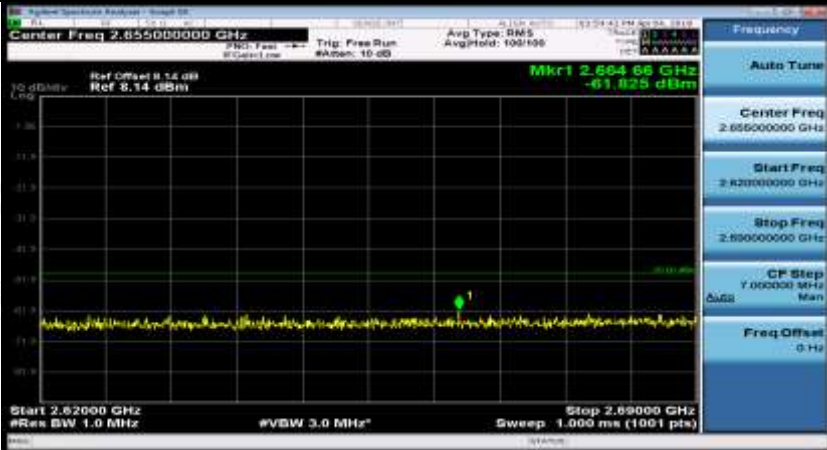
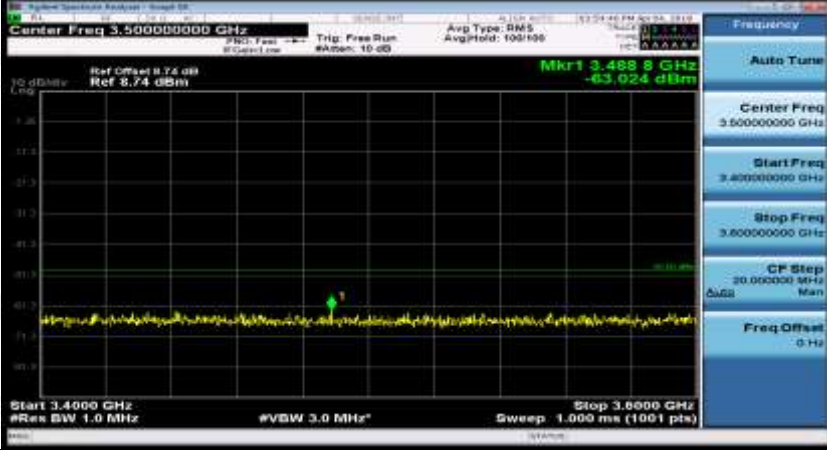

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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6. Receiver Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Highest

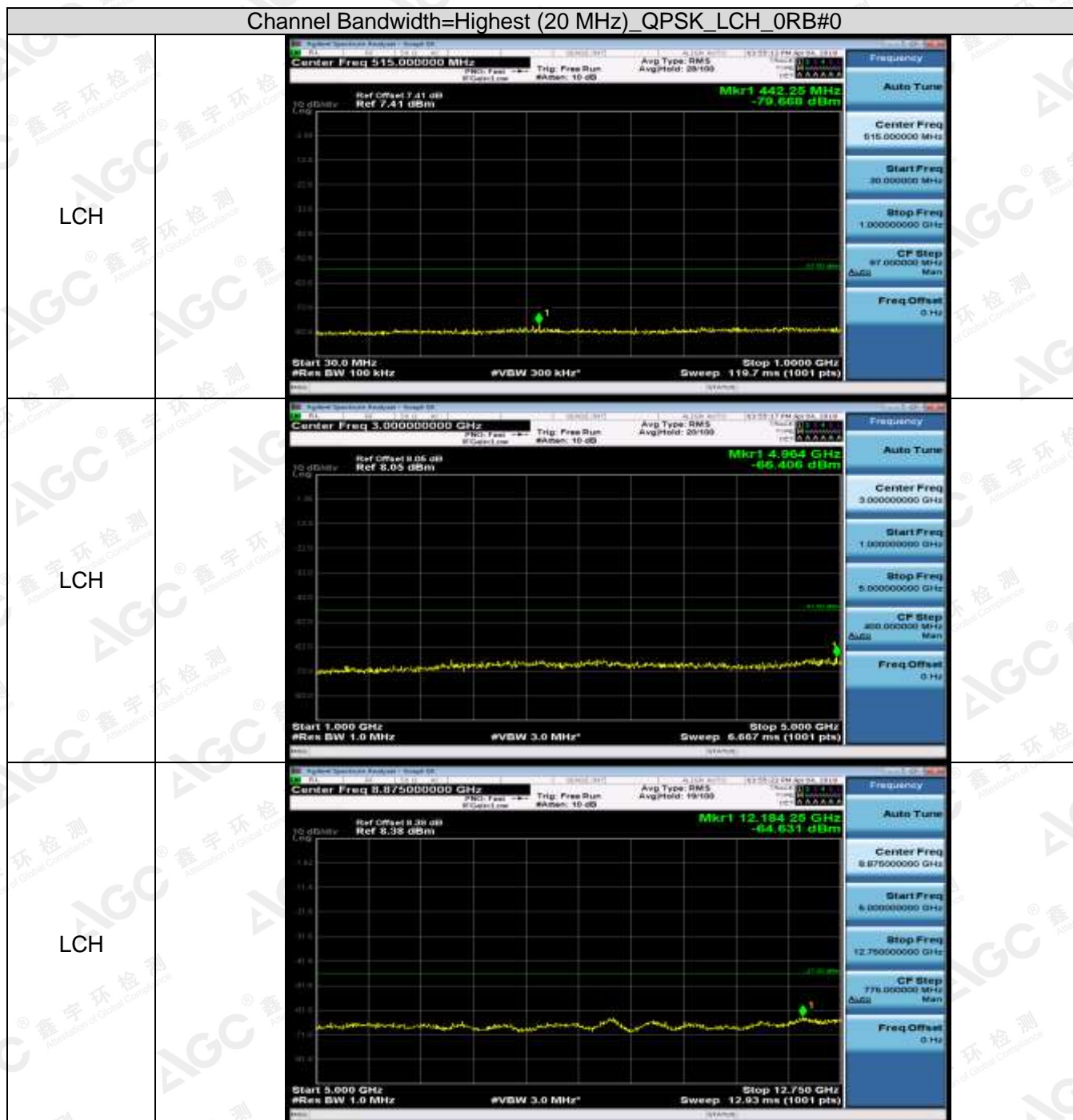
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	20 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

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Test Graphs

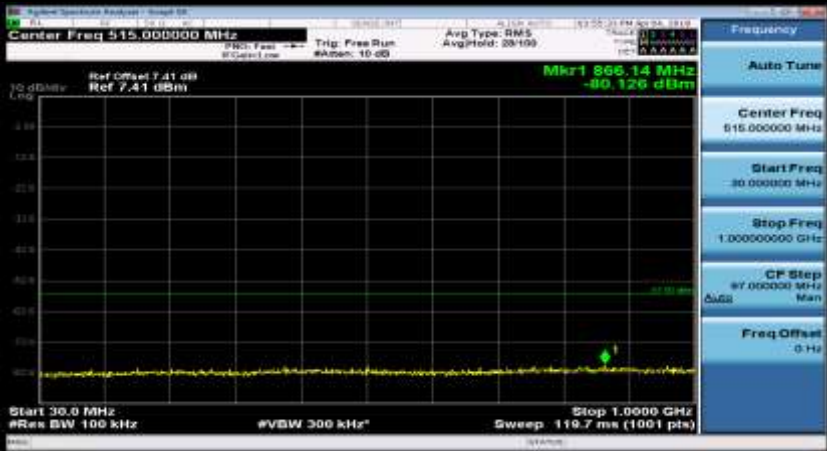


NTNV

Channel Bandwidth=Highest



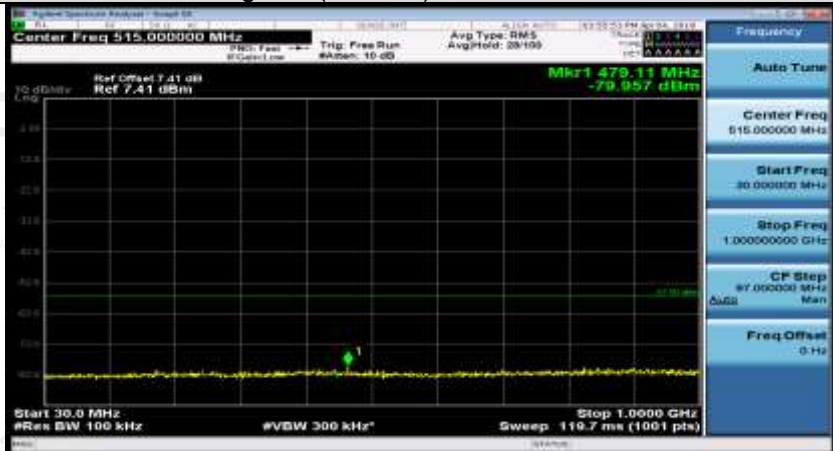


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Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_0RB#0

MCH	
MCH	
MCH	

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Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_ORB#0

HCH		
HCH		
HCH		

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7. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

Channel Bandwidth=Highest= (20 MHz)

Frequency	Modulation	RBW	Max .Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-86.31	-86.78	-87.18
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-73.43	-73.53	-73.96
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-71.89	-71.62	-72.52
Verdict	PASS					

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8. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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9. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict		Pass			

In-Band Blocking

	Downlink Configuration		Uplink Configuration		CASE2
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict			Pass		

Out-of Band Blocking

Test Environment		NC			
Test Frequencies		Low range for FInterferer below FDL_low High range for FInterferer above FDL_high			
Test Channel Bandwidths		Lowest, 1.4MHz, Highest 20MHz			
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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Narrow Band

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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10. Receiver Spurious Response

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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11. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC			
Test Frequencies			Mid range			
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 20MHz			
Test Parameters for Channel Bandwidths						
	Downlink Configuration		Uplink Configuration			
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
		FDD		FDD		
1.4MHz	QPSK	Full	QPSK	6	pass	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	pass	≥ 95 %
20MHz	QPSK	Full	QPSK	50	pass	≥ 95 %
Verdict	Pass					

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12. Receiver Reference Sensitivity Level

Test Results

NTN

	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,1.4MHz,Highest 20MHz			
	Test Parameters for Channel Bandwidths						
		DownlinkConfiguration		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
			FDD		FDD		
TNVN	1.4MHz	QPSK	Full	QPSK	6	PASS	≥ 95 %
	5MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	20MHz	QPSK	Full	QPSK	50	PASS	≥ 95 %
	Verdict	Pass					
TL,VL	1.4MHz	QPSK	Full	QPSK	6	PASS	≥ 95 %
	5MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	20MHz	QPSK	Full	QPSK	50	PASS	≥ 95 %
	Verdict	Pass					
TL,VH	1.4MHz	QPSK	Full	QPSK	6	PASS	≥ 95 %
	5MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	20MHz	QPSK	Full	QPSK	50	PASS	≥ 95 %
	Verdict	Pass					

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Appendix C for Band 7

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

HTLV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
HTLV	QPSK	5 MHz	Low range	1	0	22.56	Pass
					max	21.98	Pass
				Partial	0	21.92	Pass
					max	21.86	Pass
			Mid range	1	0	21.78	Pass
					max	22.57	Pass
				Partial	0	21.41	Pass
					max	21.40	Pass
			High range	1	0	21.57	Pass
					max	21.65	Pass
				Partial	0	20.35	Pass
					max	21.79	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
HTLV	QPSK	20 MHz	Low range	1	0	22.85	Pass
					max	22.34	Pass
				Partial	0	22.09	Pass
					max	22.16	Pass
			Mid range	1	0	22.51	Pass
					max	21.98	Pass
				Partial	0	22.24	Pass
					max	20.97	Pass
			High range	1	0	22.03	Pass
					max	21.66	Pass
				Partial	0	21.90	Pass
					max	21.52	Pass

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2. Transmitter Minimum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

HTHV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
HTHV	QPSK	5 MHz	Low range	Full	0	-53.51	Pass
			Mid range	Full	0	-53.73	Pass
			High range	Full	0	-53.97	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
HTHV	QPSK	20MHz	Low range	Full	0	-52.84	Pass
			Mid range	Full	0	-53.27	Pass
			High range	Full	0	-53.47	Pass

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3. Transmitter Spectrum Emission Mask

Test Result

NTN

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass

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					max	PUMAX	Pass
				Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
			Mid range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

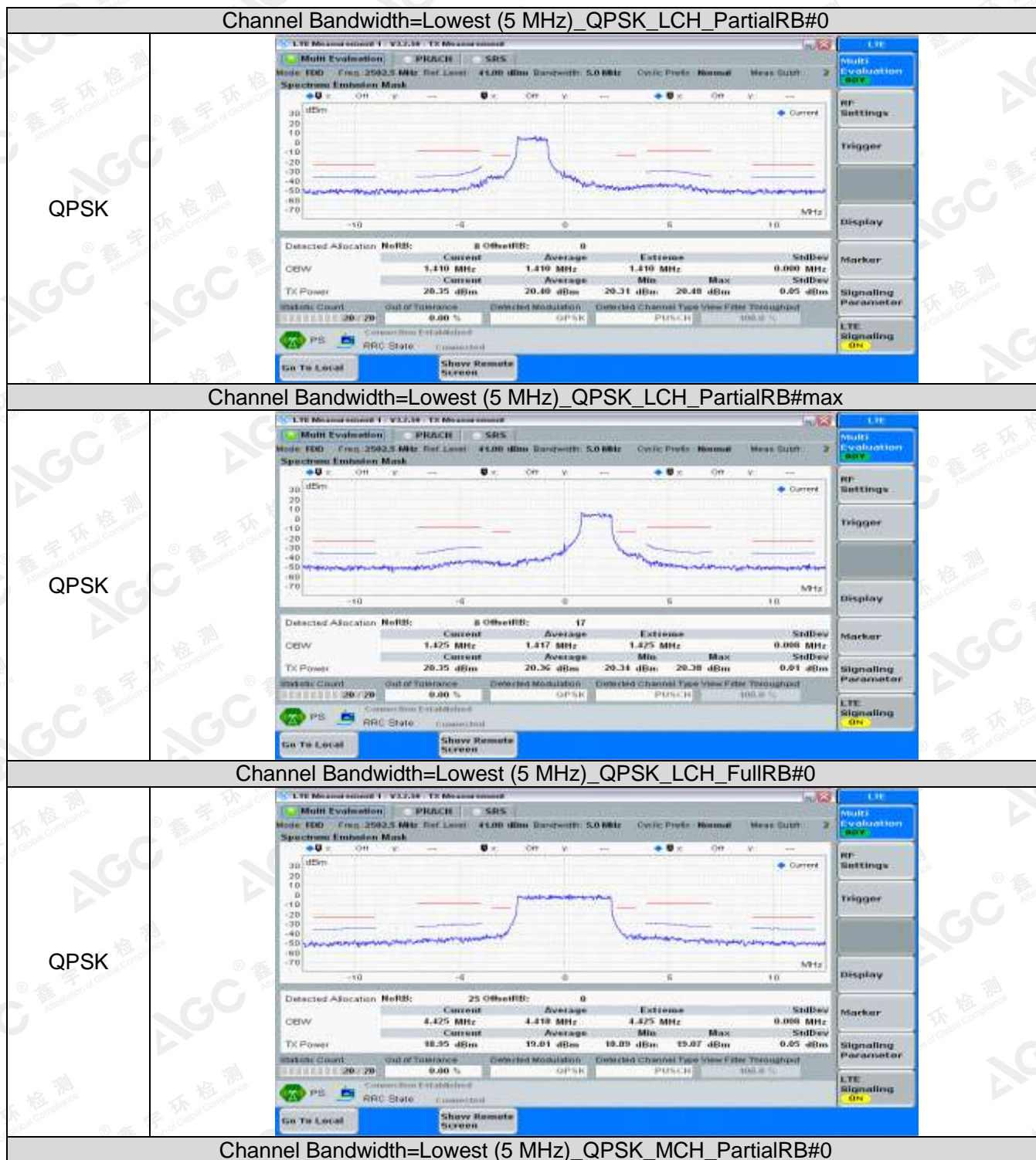
Channel Bandwidth=Highest (20MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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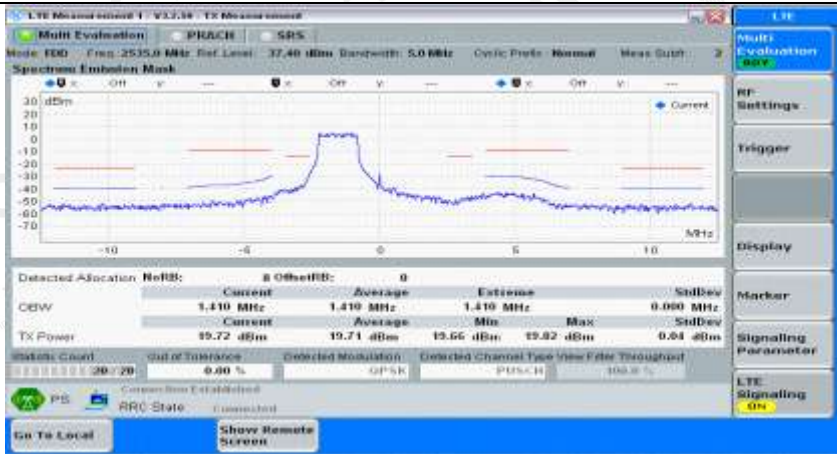
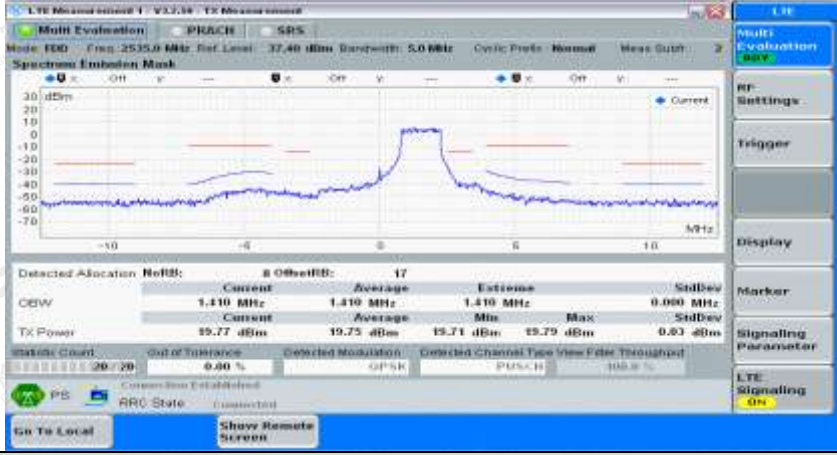
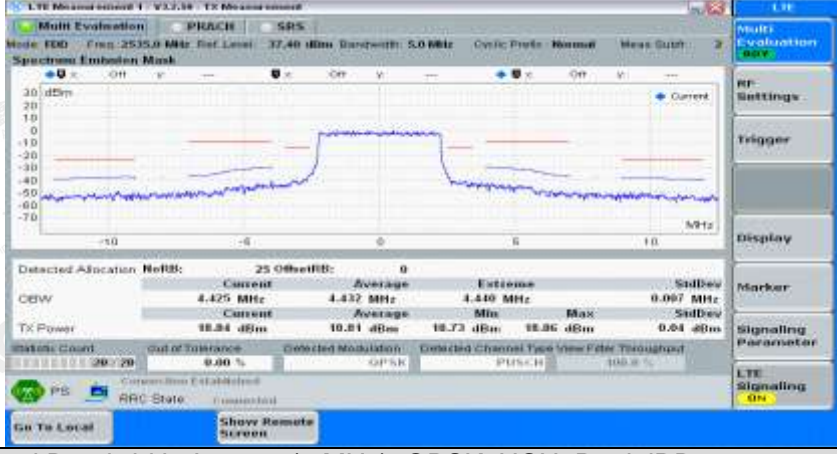
Test Graphs

NTNV

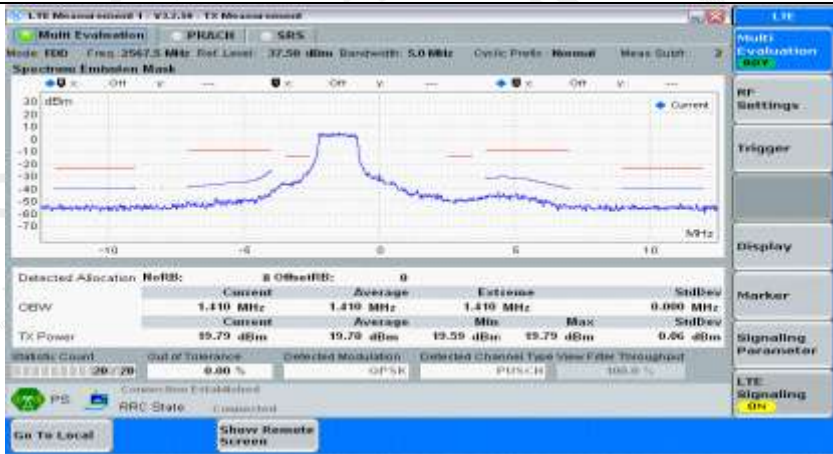
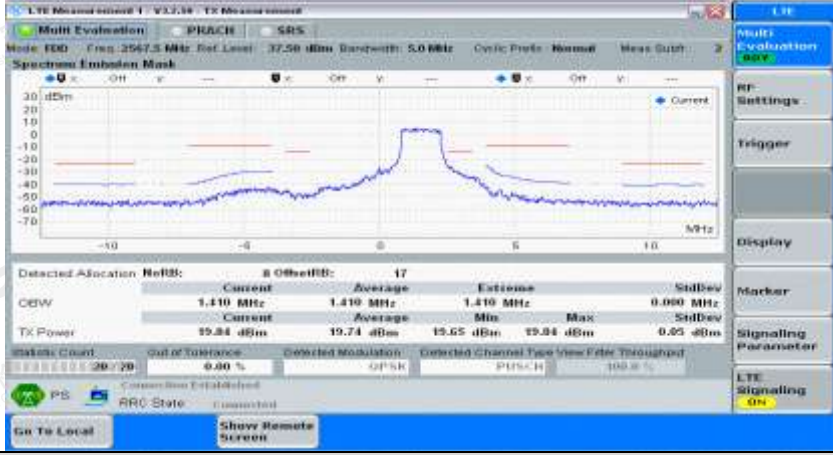
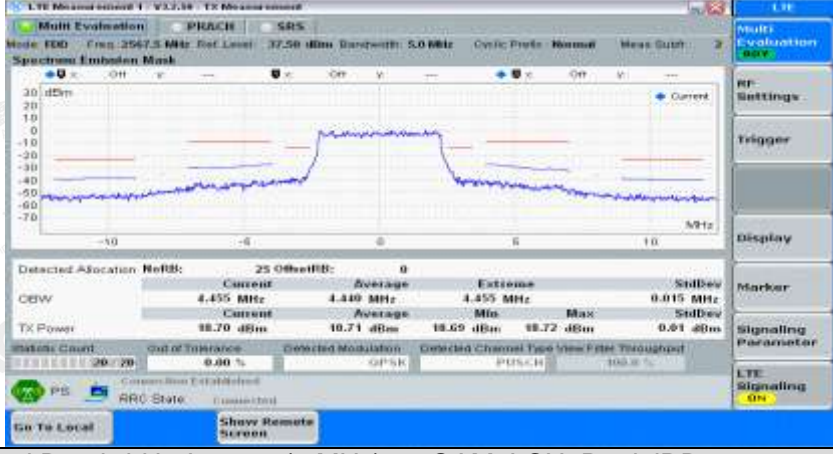
Channel Bandwidth=Lowest (5 MHz)



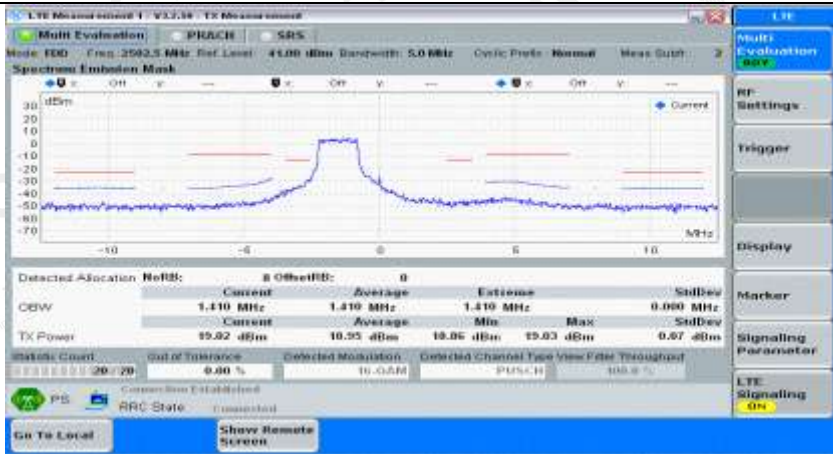
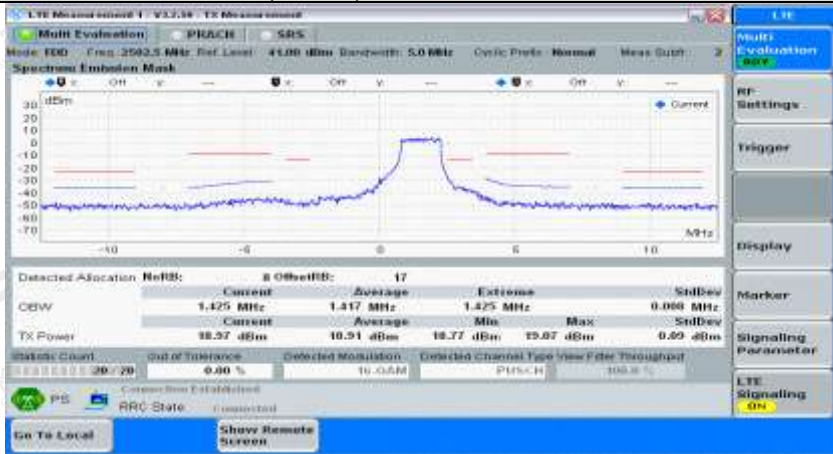
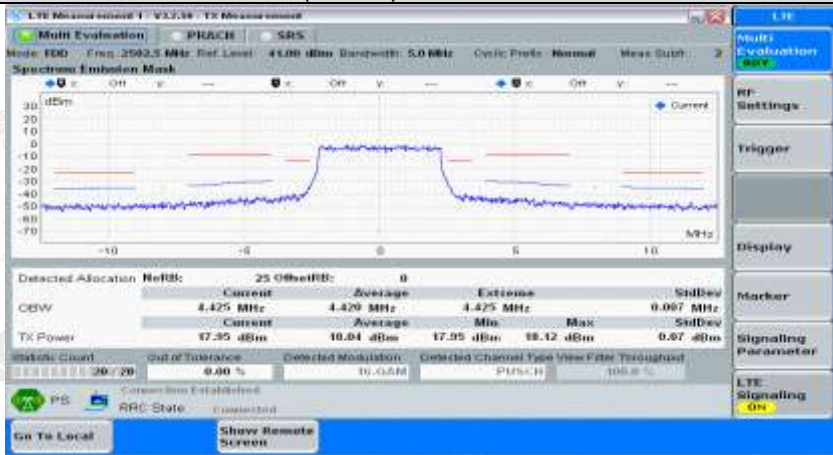
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0	

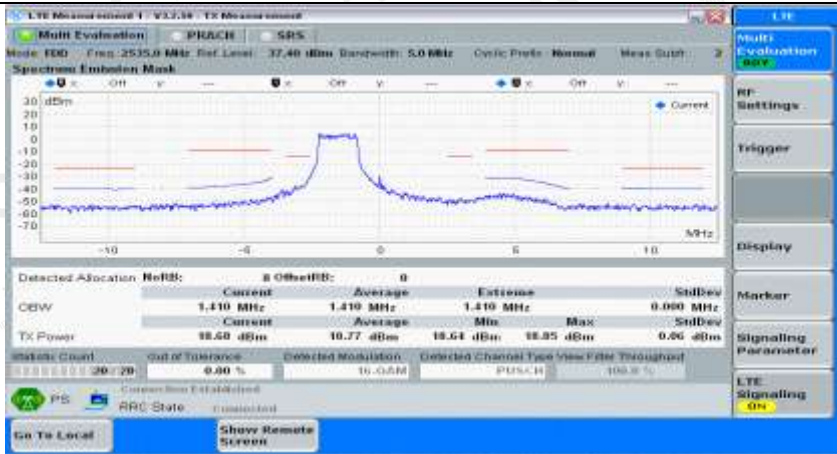
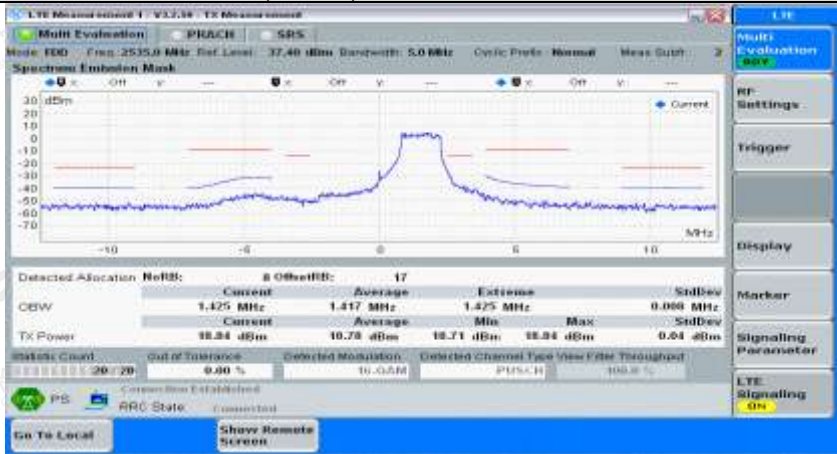
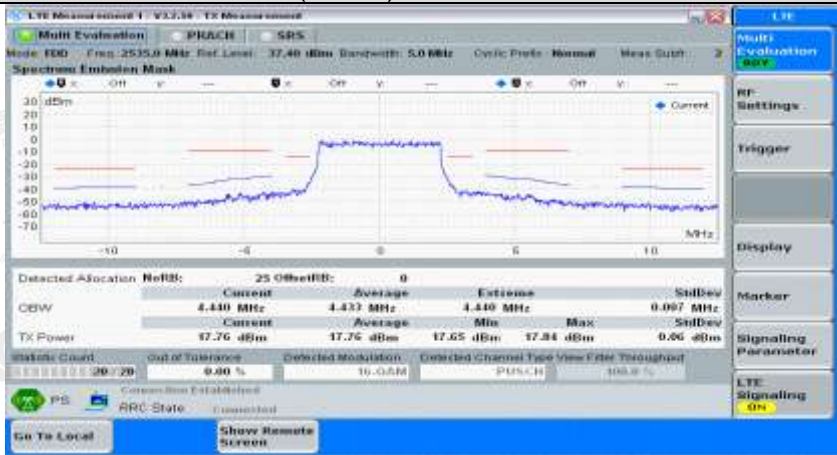
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0	

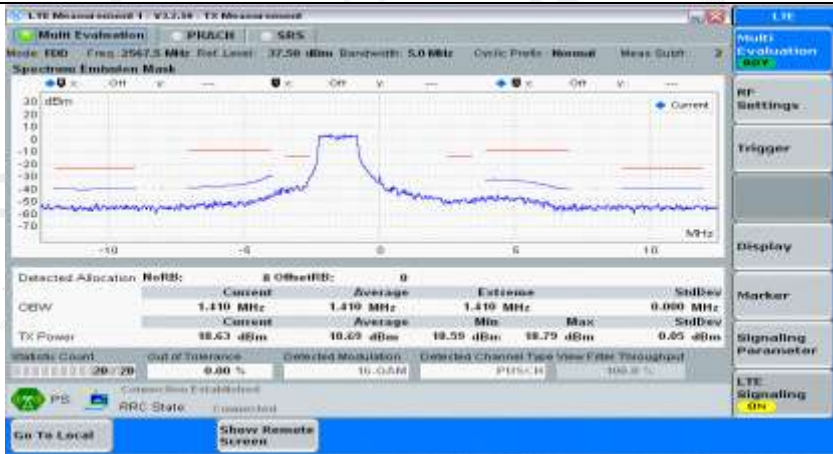
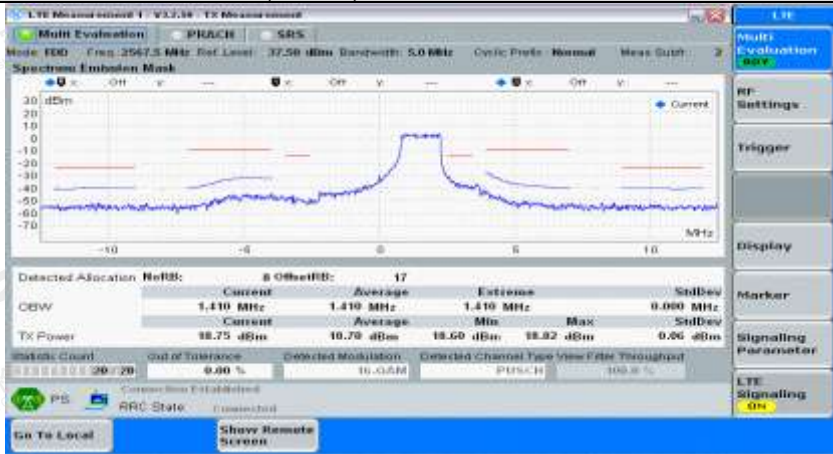
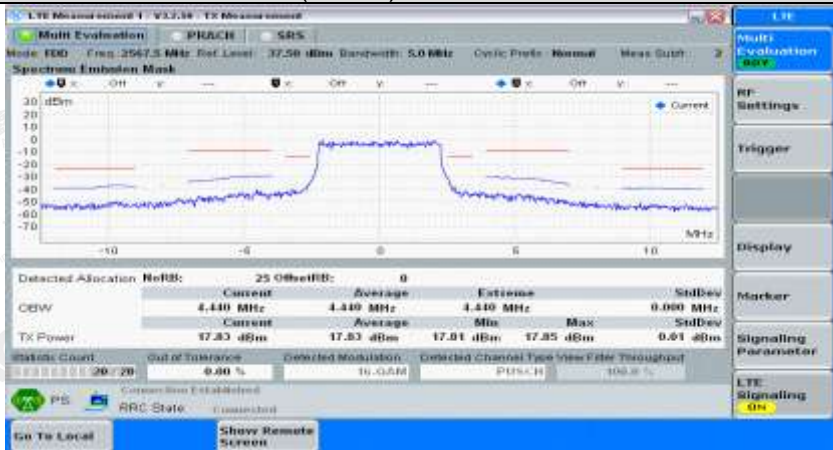
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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullIRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	

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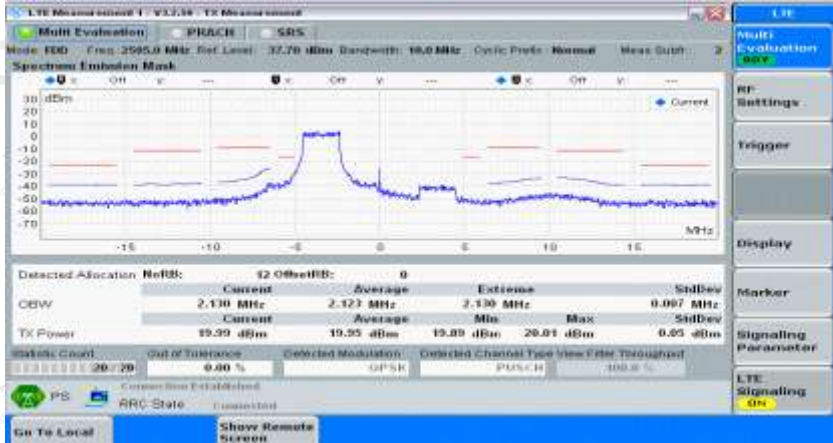
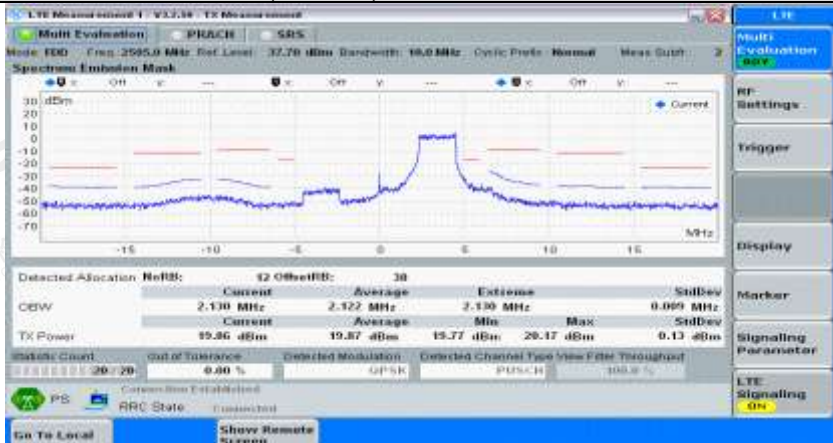
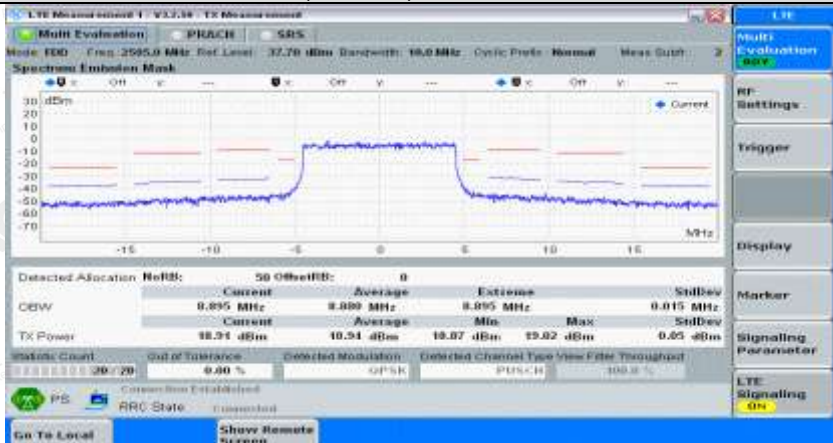
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0	

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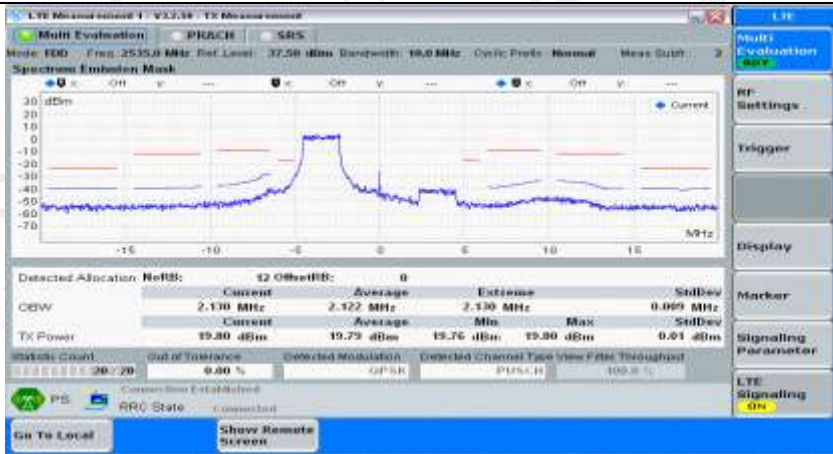
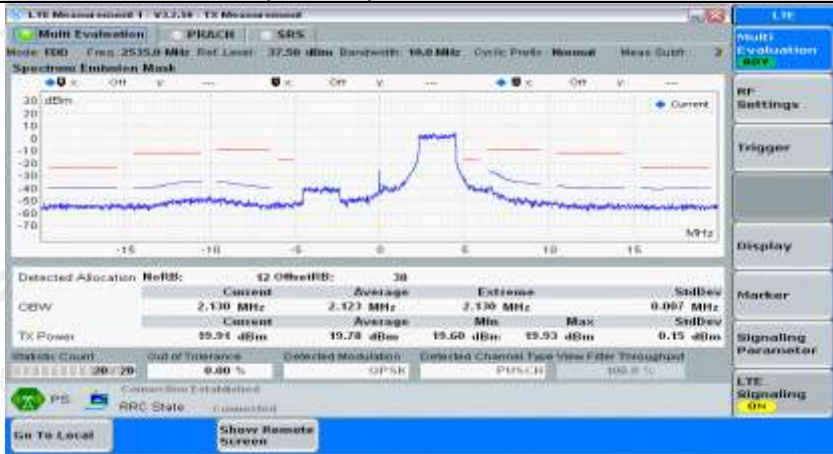
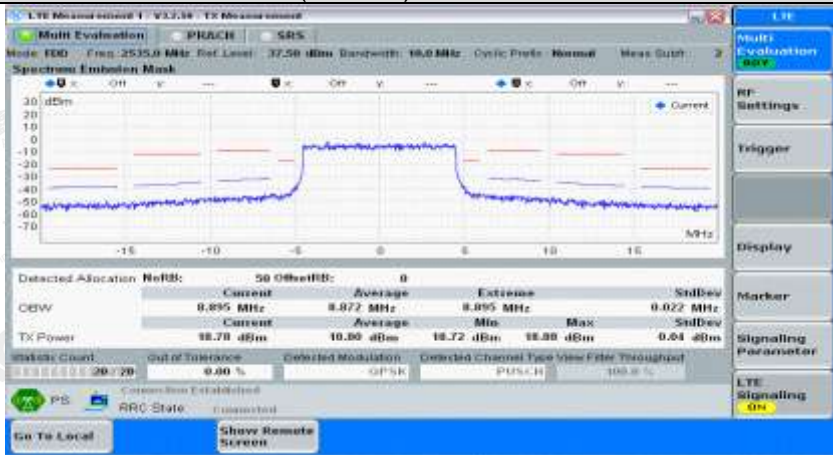
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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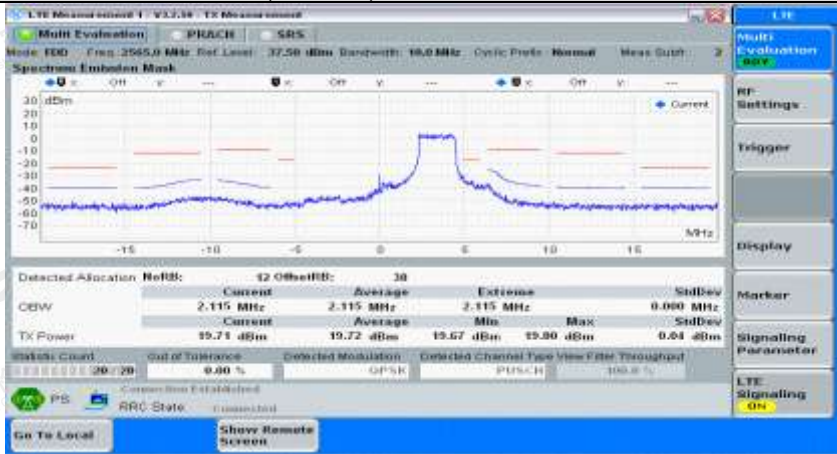
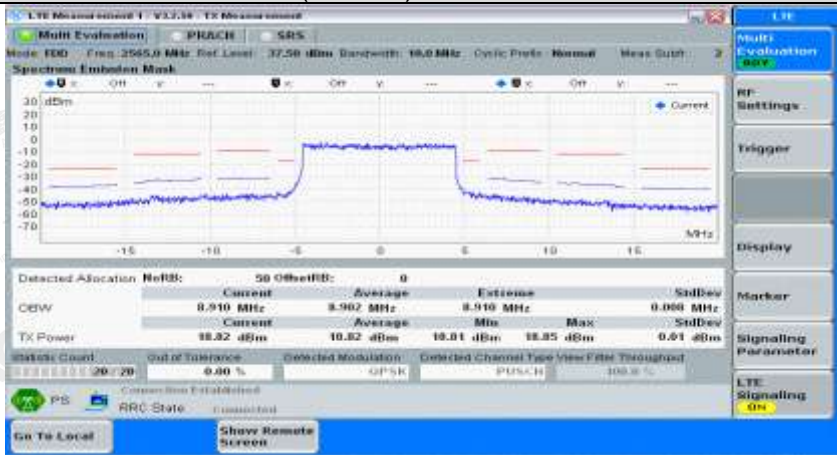
Channel Bandwidth= (10 MHz)

QPSK	<p>Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0</p> 
QPSK	<p>Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max</p> 
QPSK	<p>Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullRB#0</p> 
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0	

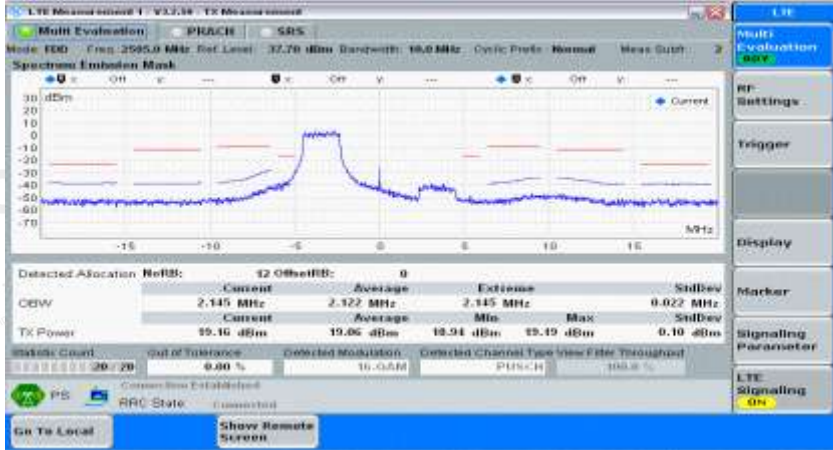

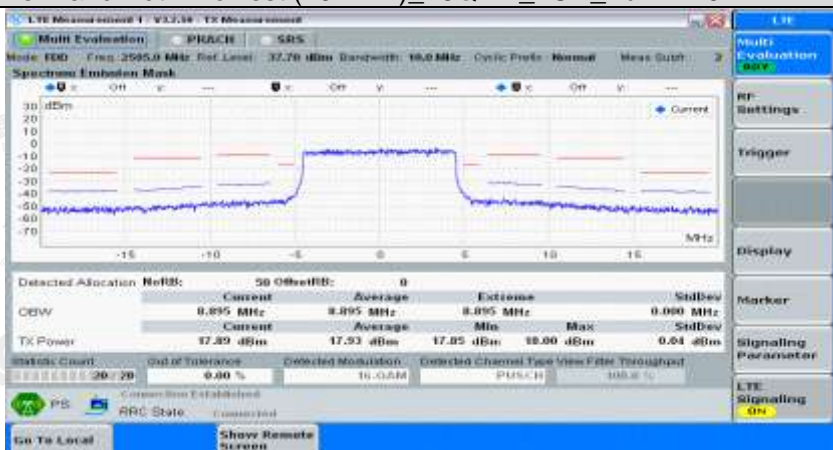
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0	



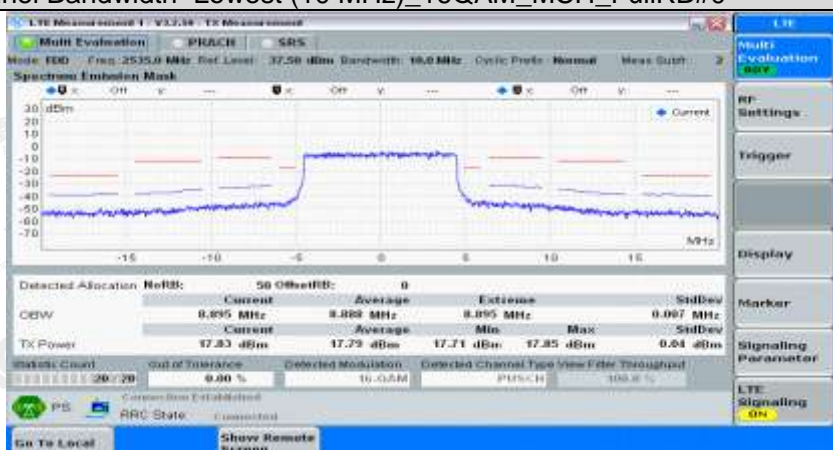
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0	

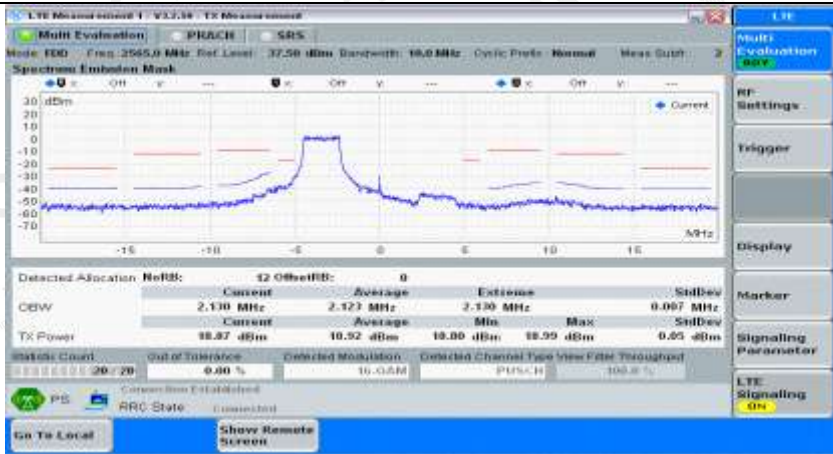
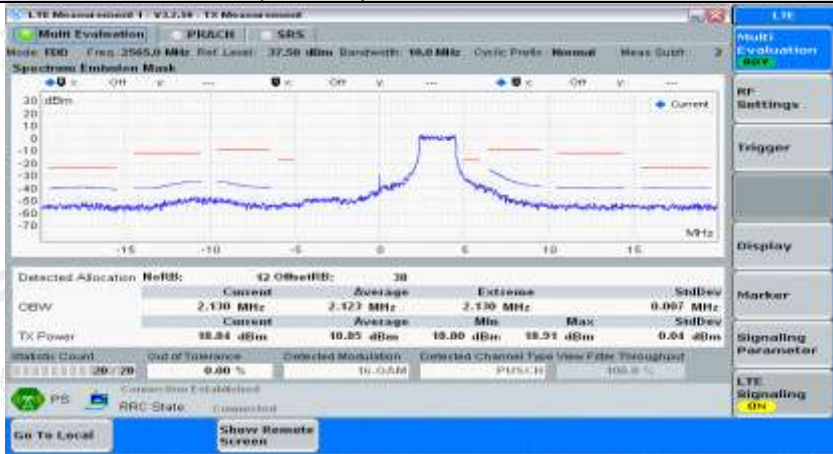
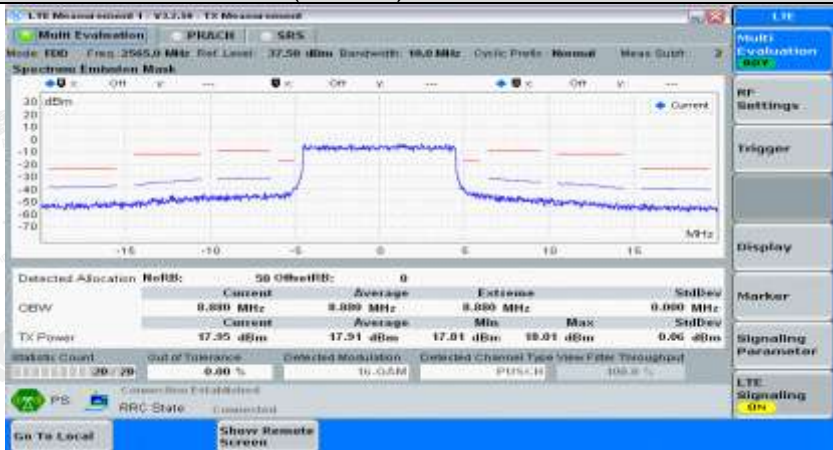
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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	

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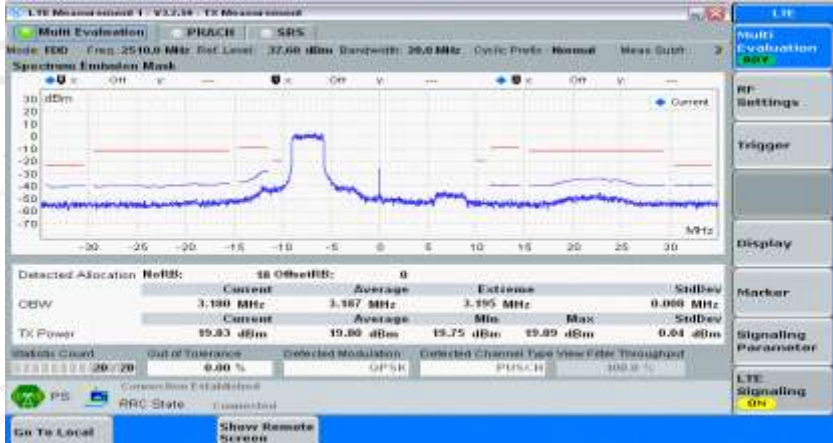
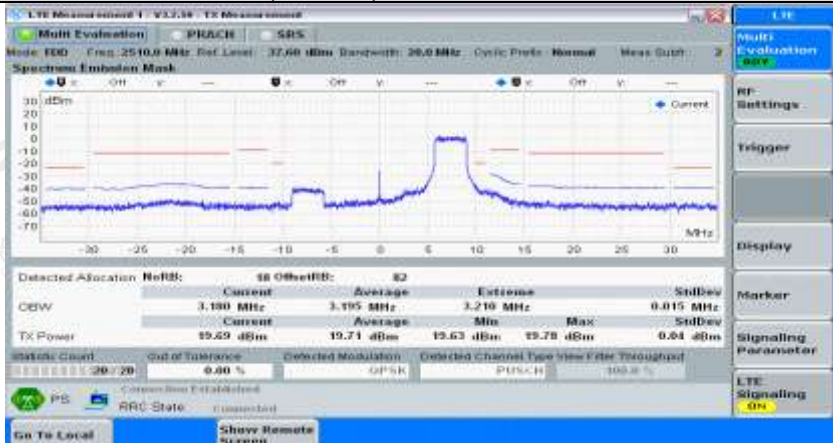
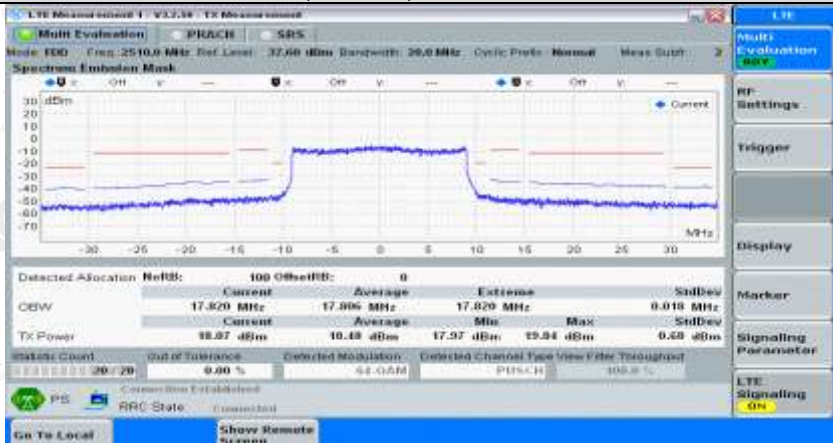
16QAM	 <table><tr><th colspan="2">Detected Allocation</th><th colspan="2">NoRB#</th><th colspan="2">12</th><th colspan="2">OtherRB#</th><th colspan="2">0</th><th colspan="2">Extensive</th><th colspan="2">SubDev</th></tr><tr><td>Current</td><td>2.145 MHz</td><td>Average</td><td>2.122 MHz</td><td>Extensive</td><td>2.145 MHz</td><td>SubDev</td><td>0.022 MHz</td><td>Current</td><td>0</td><td>Average</td><td>0</td><td>SubDev</td><td>0</td></tr><tr><td>TX Power</td><td>19.00 dBm</td><td>10.50 dBm</td><td>18.74 dBm</td><td>19.04 dBm</td><td>0.10 dBm</td><td>0.10 dBm</td><td>0.10 dBm</td><td>0.10 dBm</td><td>0.10 dBm</td><td>0.10 dBm</td><td>0.10 dBm</td><td>0.10 dBm</td><td>0.10 dBm</td></tr></table>	Detected Allocation		NoRB#		12		OtherRB#		0		Extensive		SubDev		Current	2.145 MHz	Average	2.122 MHz	Extensive	2.145 MHz	SubDev	0.022 MHz	Current	0	Average	0	SubDev	0	TX Power	19.00 dBm	10.50 dBm	18.74 dBm	19.04 dBm	0.10 dBm	0.10 dBm	0.10 dBm	0.10 dBm	0.10 dBm	0.10 dBm	0.10 dBm	0.10 dBm	0.10 dBm
Detected Allocation		NoRB#		12		OtherRB#		0		Extensive		SubDev																															
Current	2.145 MHz	Average	2.122 MHz	Extensive	2.145 MHz	SubDev	0.022 MHz	Current	0	Average	0	SubDev	0																														
TX Power	19.00 dBm	10.50 dBm	18.74 dBm	19.04 dBm	0.10 dBm	0.10 dBm	0.10 dBm	0.10 dBm	0.10 dBm	0.10 dBm	0.10 dBm	0.10 dBm	0.10 dBm																														
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max																																											
16QAM	 <table><tr><th colspan="2">Detected Allocation</th><th colspan="2">NoRB#</th><th colspan="2">30</th><th colspan="2">OtherRB#</th><th colspan="2">0</th><th colspan="2">Extensive</th><th colspan="2">SubDev</th></tr><tr><td>Current</td><td>2.130 MHz</td><td>Average</td><td>2.116 MHz</td><td>Extensive</td><td>2.145 MHz</td><td>SubDev</td><td>0.017 MHz</td><td>Current</td><td>0</td><td>Average</td><td>0</td><td>SubDev</td><td>0</td></tr><tr><td>TX Power</td><td>19.10 dBm</td><td>10.53 dBm</td><td>18.69 dBm</td><td>19.20 dBm</td><td>0.21 dBm</td><td>0.21 dBm</td><td>0.21 dBm</td><td>0.21 dBm</td><td>0.21 dBm</td><td>0.21 dBm</td><td>0.21 dBm</td><td>0.21 dBm</td><td>0.21 dBm</td></tr></table>	Detected Allocation		NoRB#		30		OtherRB#		0		Extensive		SubDev		Current	2.130 MHz	Average	2.116 MHz	Extensive	2.145 MHz	SubDev	0.017 MHz	Current	0	Average	0	SubDev	0	TX Power	19.10 dBm	10.53 dBm	18.69 dBm	19.20 dBm	0.21 dBm	0.21 dBm	0.21 dBm	0.21 dBm	0.21 dBm	0.21 dBm	0.21 dBm	0.21 dBm	0.21 dBm
Detected Allocation		NoRB#		30		OtherRB#		0		Extensive		SubDev																															
Current	2.130 MHz	Average	2.116 MHz	Extensive	2.145 MHz	SubDev	0.017 MHz	Current	0	Average	0	SubDev	0																														
TX Power	19.10 dBm	10.53 dBm	18.69 dBm	19.20 dBm	0.21 dBm	0.21 dBm	0.21 dBm	0.21 dBm	0.21 dBm	0.21 dBm	0.21 dBm	0.21 dBm	0.21 dBm																														
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0																																											
16QAM	 <table><tr><th colspan="2">Detected Allocation</th><th colspan="2">NoRB#</th><th colspan="2">50</th><th colspan="2">OtherRB#</th><th colspan="2">0</th><th colspan="2">Extensive</th><th colspan="2">SubDev</th></tr><tr><td>Current</td><td>8.895 MHz</td><td>Average</td><td>8.888 MHz</td><td>Extensive</td><td>8.895 MHz</td><td>SubDev</td><td>0.007 MHz</td><td>Current</td><td>0</td><td>Average</td><td>0</td><td>SubDev</td><td>0</td></tr><tr><td>TX Power</td><td>17.83 dBm</td><td>17.79 dBm</td><td>17.71 dBm</td><td>17.85 dBm</td><td>0.04 dBm</td><td>0.04 dBm</td><td>0.04 dBm</td><td>0.04 dBm</td><td>0.04 dBm</td><td>0.04 dBm</td><td>0.04 dBm</td><td>0.04 dBm</td><td>0.04 dBm</td></tr></table>	Detected Allocation		NoRB#		50		OtherRB#		0		Extensive		SubDev		Current	8.895 MHz	Average	8.888 MHz	Extensive	8.895 MHz	SubDev	0.007 MHz	Current	0	Average	0	SubDev	0	TX Power	17.83 dBm	17.79 dBm	17.71 dBm	17.85 dBm	0.04 dBm	0.04 dBm	0.04 dBm	0.04 dBm	0.04 dBm	0.04 dBm	0.04 dBm	0.04 dBm	0.04 dBm
Detected Allocation		NoRB#		50		OtherRB#		0		Extensive		SubDev																															
Current	8.895 MHz	Average	8.888 MHz	Extensive	8.895 MHz	SubDev	0.007 MHz	Current	0	Average	0	SubDev	0																														
TX Power	17.83 dBm	17.79 dBm	17.71 dBm	17.85 dBm	0.04 dBm	0.04 dBm	0.04 dBm	0.04 dBm	0.04 dBm	0.04 dBm	0.04 dBm	0.04 dBm	0.04 dBm																														
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0																																											

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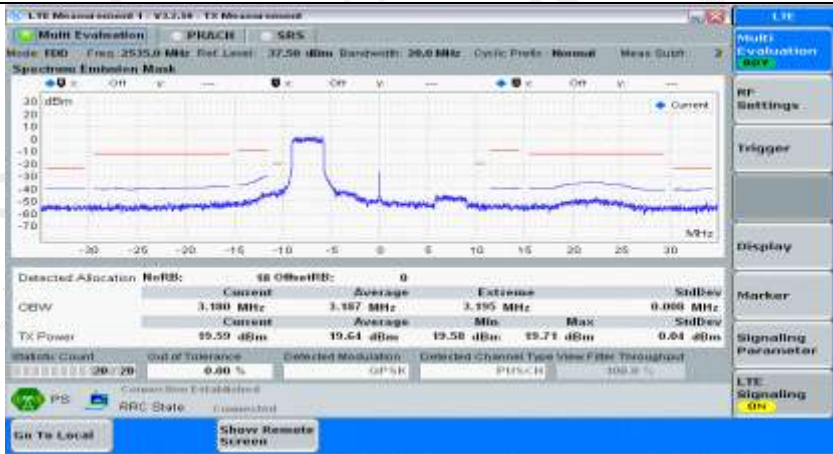
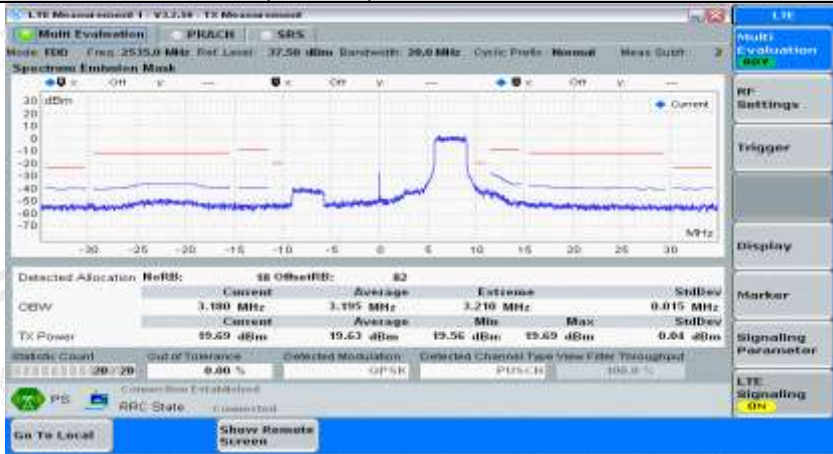
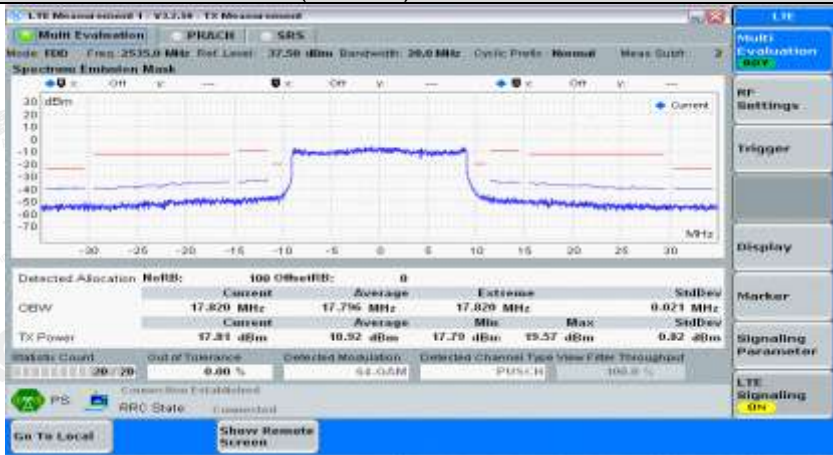
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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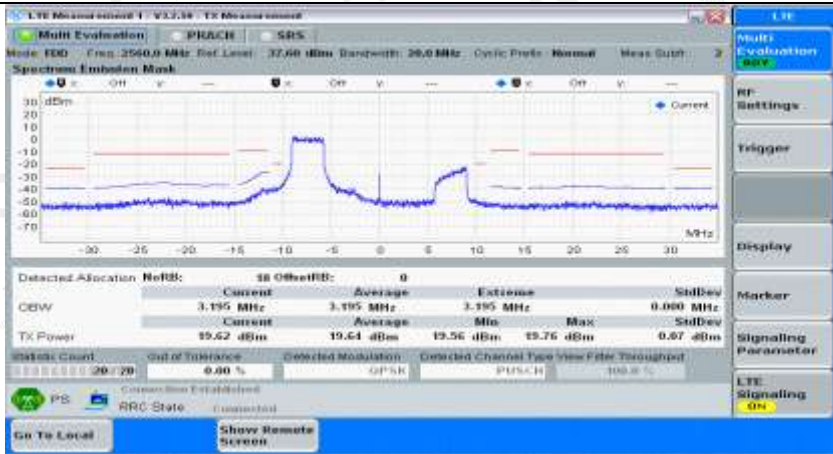
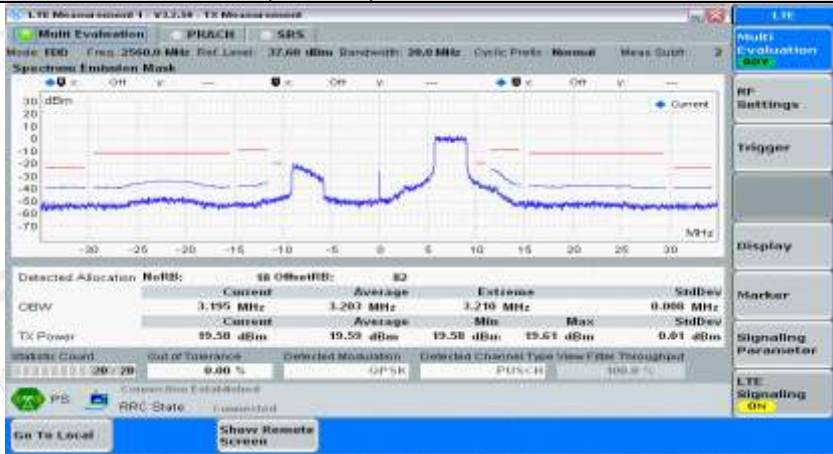
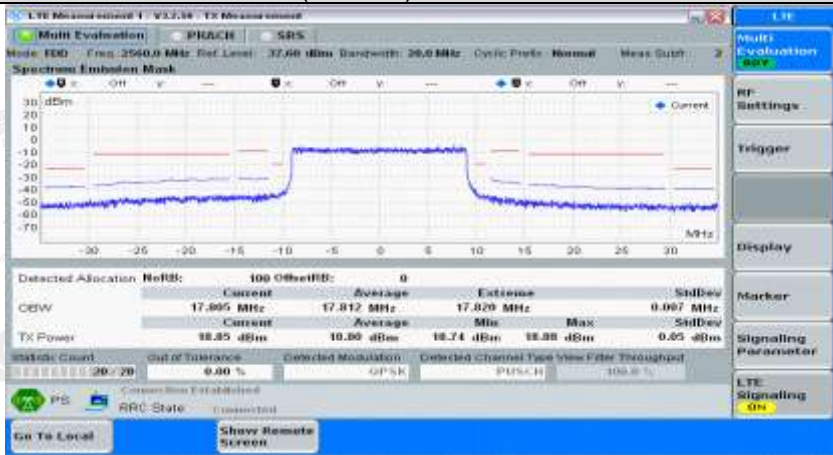
Channel Bandwidth=Highest (20 MHz)

QPSK	<p>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#0</p> 
QPSK	<p>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#max</p> 
QPSK	<p>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_FullRB#0</p> 
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0	

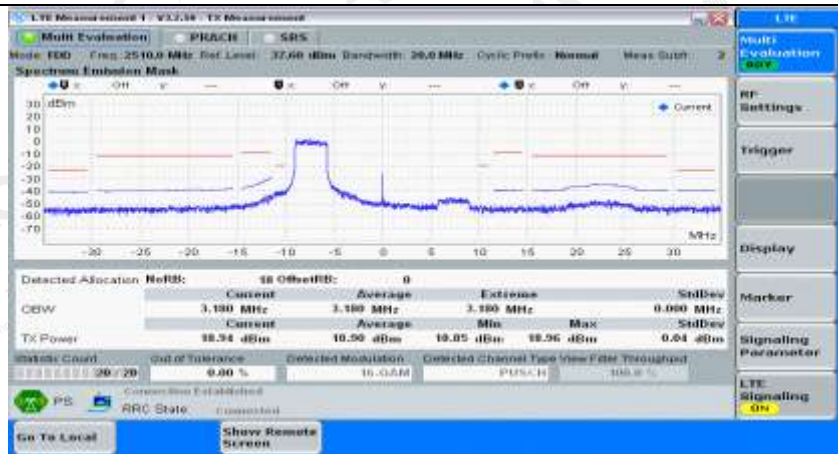
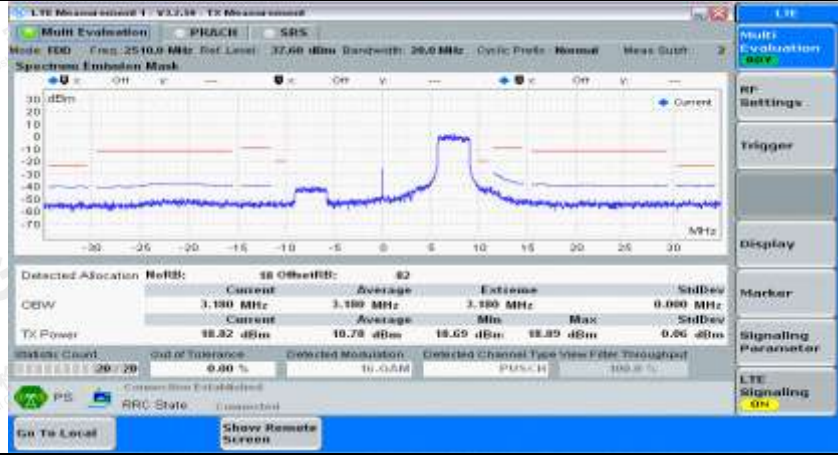
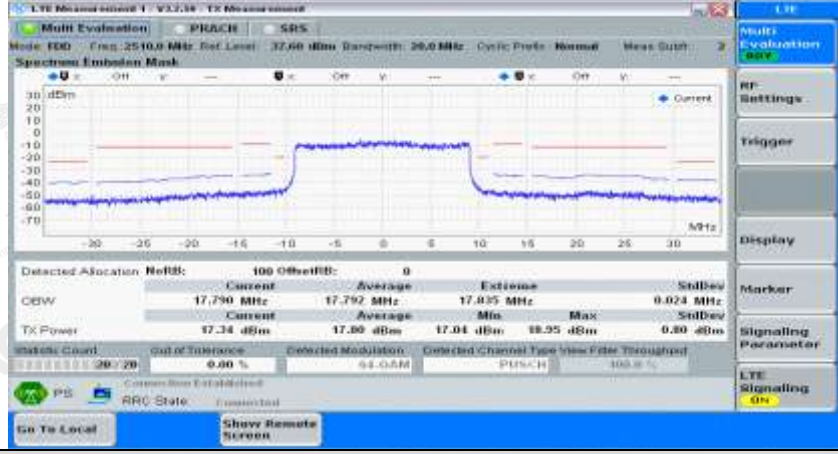
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QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0	

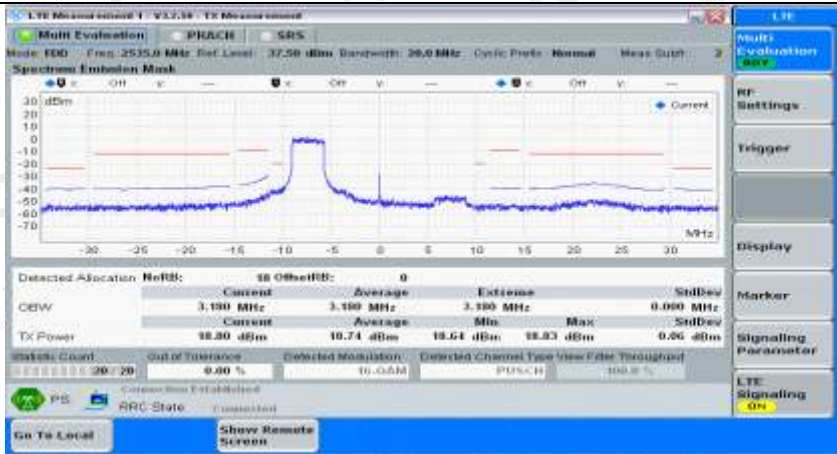
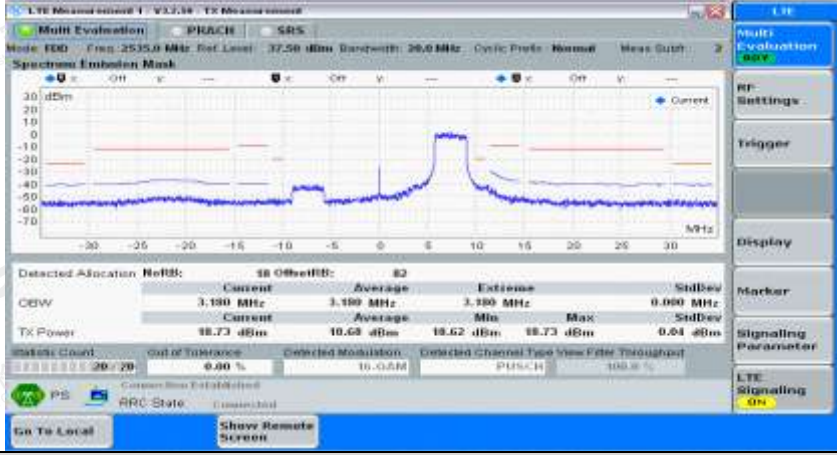
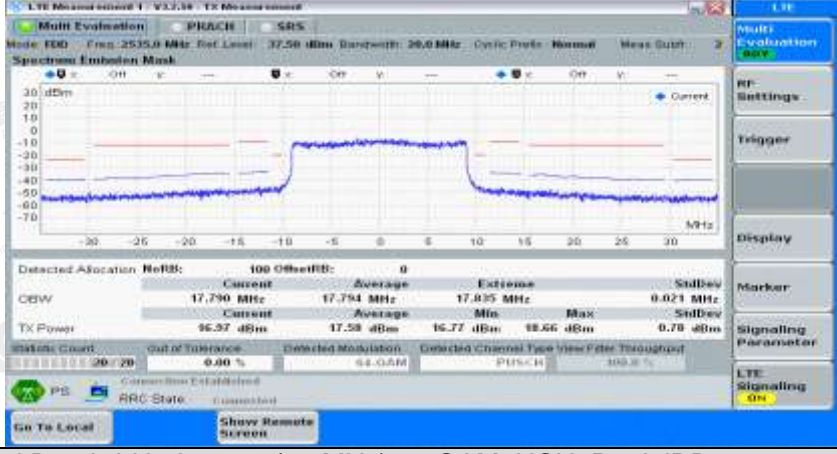
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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0</p>

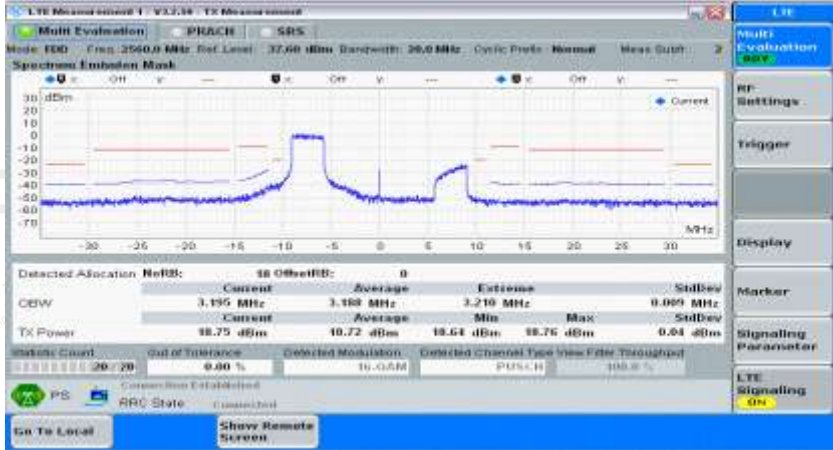

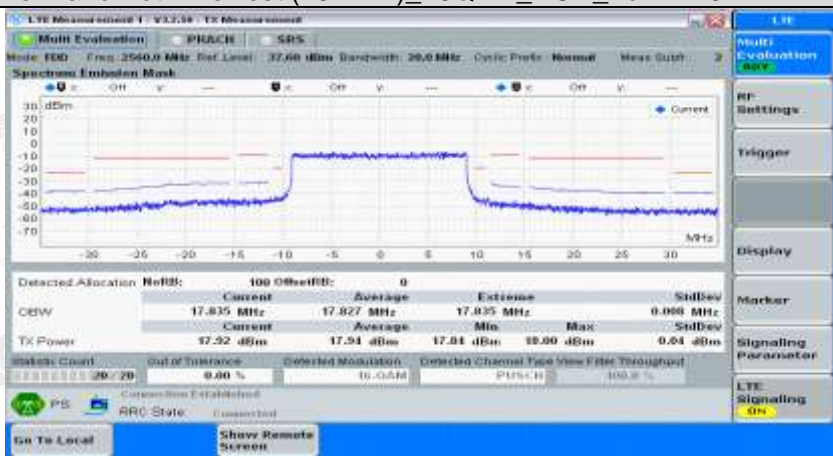
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16QAM	 <table><tr><th colspan="2">Detected Allocation</th><th colspan="2">NoRB#</th><th colspan="2">18 OtherRB#</th><th colspan="2">0</th><th colspan="2">Extensive</th><th colspan="2">StdDev</th></tr><tr><td>CEW</td><td>3.180 MHz</td><td>Current</td><td>Average</td><td>3.180 MHz</td><td>3.180 MHz</td><td>0.000 MHz</td><td>0.000 MHz</td><td>StdDev</td><td></td><td></td><td></td></tr><tr><td>TX Power</td><td>18.34 dBm</td><td>Current</td><td>Average</td><td>18.34 dBm</td><td>18.34 dBm</td><td>18.34 dBm</td><td>18.34 dBm</td><td>0.04 dBm</td><td></td><td></td><td></td></tr></table>	Detected Allocation		NoRB#		18 OtherRB#		0		Extensive		StdDev		CEW	3.180 MHz	Current	Average	3.180 MHz	3.180 MHz	0.000 MHz	0.000 MHz	StdDev				TX Power	18.34 dBm	Current	Average	18.34 dBm	18.34 dBm	18.34 dBm	18.34 dBm	0.04 dBm			
Detected Allocation		NoRB#		18 OtherRB#		0		Extensive		StdDev																											
CEW	3.180 MHz	Current	Average	3.180 MHz	3.180 MHz	0.000 MHz	0.000 MHz	StdDev																													
TX Power	18.34 dBm	Current	Average	18.34 dBm	18.34 dBm	18.34 dBm	18.34 dBm	0.04 dBm																													
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max																																					
16QAM	 <table><tr><th colspan="2">Detected Allocation</th><th colspan="2">NoRB#</th><th colspan="2">18 OtherRB#</th><th colspan="2">0</th><th colspan="2">Extensive</th><th colspan="2">StdDev</th></tr><tr><td>CEW</td><td>3.180 MHz</td><td>Current</td><td>Average</td><td>3.180 MHz</td><td>3.180 MHz</td><td>0.000 MHz</td><td>0.000 MHz</td><td>StdDev</td><td></td><td></td><td></td></tr><tr><td>TX Power</td><td>18.32 dBm</td><td>Current</td><td>Average</td><td>18.32 dBm</td><td>18.32 dBm</td><td>18.32 dBm</td><td>18.32 dBm</td><td>0.04 dBm</td><td></td><td></td><td></td></tr></table>	Detected Allocation		NoRB#		18 OtherRB#		0		Extensive		StdDev		CEW	3.180 MHz	Current	Average	3.180 MHz	3.180 MHz	0.000 MHz	0.000 MHz	StdDev				TX Power	18.32 dBm	Current	Average	18.32 dBm	18.32 dBm	18.32 dBm	18.32 dBm	0.04 dBm			
Detected Allocation		NoRB#		18 OtherRB#		0		Extensive		StdDev																											
CEW	3.180 MHz	Current	Average	3.180 MHz	3.180 MHz	0.000 MHz	0.000 MHz	StdDev																													
TX Power	18.32 dBm	Current	Average	18.32 dBm	18.32 dBm	18.32 dBm	18.32 dBm	0.04 dBm																													
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0																																					
16QAM	 <table><tr><th colspan="2">Detected Allocation</th><th colspan="2">NoRB#</th><th colspan="2">100 OtherRB#</th><th colspan="2">0</th><th colspan="2">Extensive</th><th colspan="2">StdDev</th></tr><tr><td>CEW</td><td>17.790 MHz</td><td>Current</td><td>Average</td><td>17.792 MHz</td><td>17.835 MHz</td><td>0.024 MHz</td><td>0.024 MHz</td><td>StdDev</td><td></td><td></td><td></td></tr><tr><td>TX Power</td><td>17.34 dBm</td><td>Current</td><td>Average</td><td>17.04 dBm</td><td>17.04 dBm</td><td>17.04 dBm</td><td>17.04 dBm</td><td>0.00 dBm</td><td></td><td></td><td></td></tr></table>	Detected Allocation		NoRB#		100 OtherRB#		0		Extensive		StdDev		CEW	17.790 MHz	Current	Average	17.792 MHz	17.835 MHz	0.024 MHz	0.024 MHz	StdDev				TX Power	17.34 dBm	Current	Average	17.04 dBm	17.04 dBm	17.04 dBm	17.04 dBm	0.00 dBm			
Detected Allocation		NoRB#		100 OtherRB#		0		Extensive		StdDev																											
CEW	17.790 MHz	Current	Average	17.792 MHz	17.835 MHz	0.024 MHz	0.024 MHz	StdDev																													
TX Power	17.34 dBm	Current	Average	17.04 dBm	17.04 dBm	17.04 dBm	17.04 dBm	0.00 dBm																													
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0																																					

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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0	

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	

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4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

LTHV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
LTHV	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
LTHV	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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	16QAM	Low range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		Mid range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		High range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

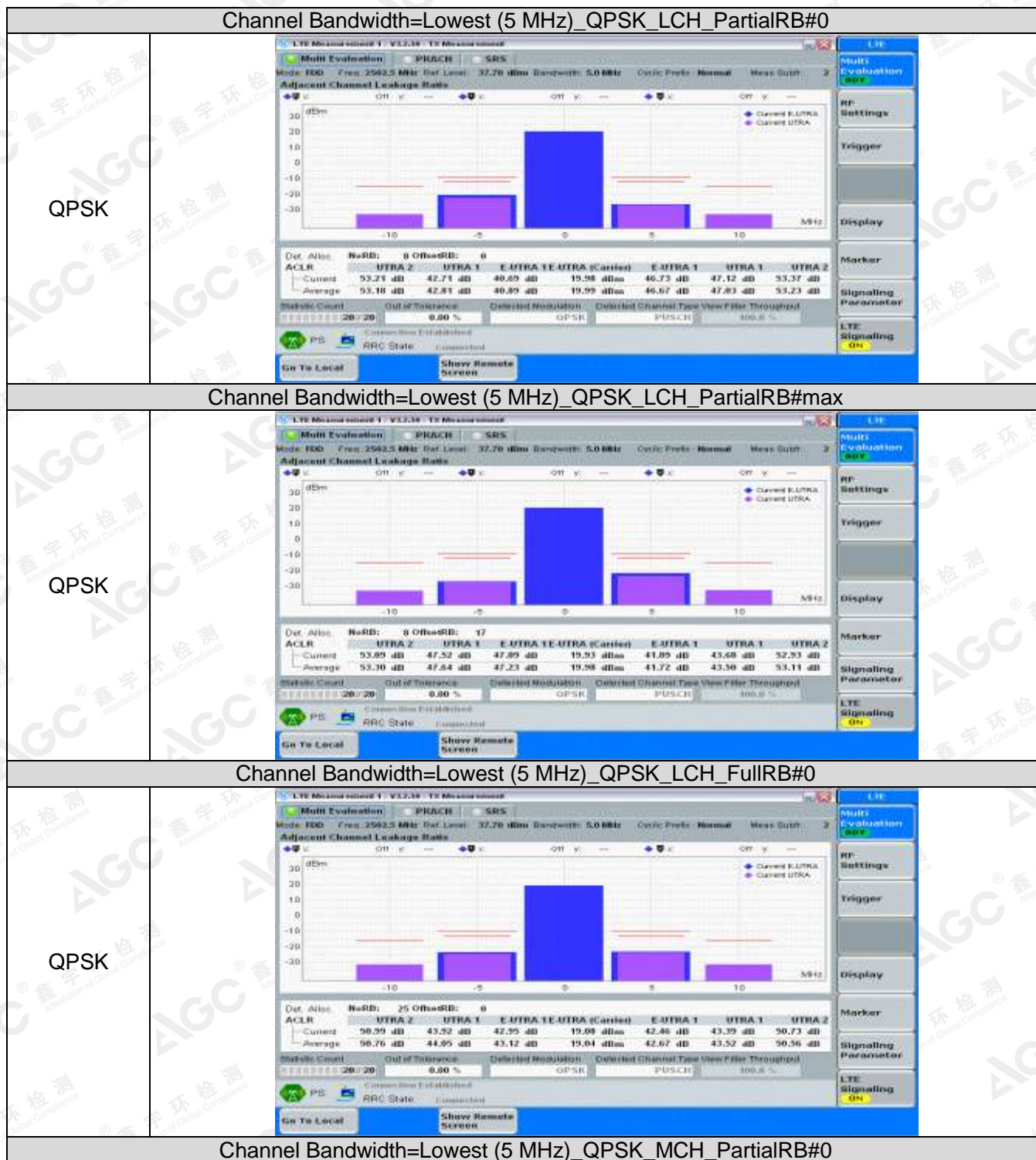
Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
LTHV	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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Test Graphs

LTHV




Channel Bandwidth=Lowest (5 MHz)





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QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0</p>




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QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0</p>




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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullIRB#0</p>
16QAM	

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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0</p>

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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0</p>

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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	

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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullIRB#0</p>
16QAM	

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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0</p>

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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullIRB#0</p>
16QAM	

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5. Transmitter Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

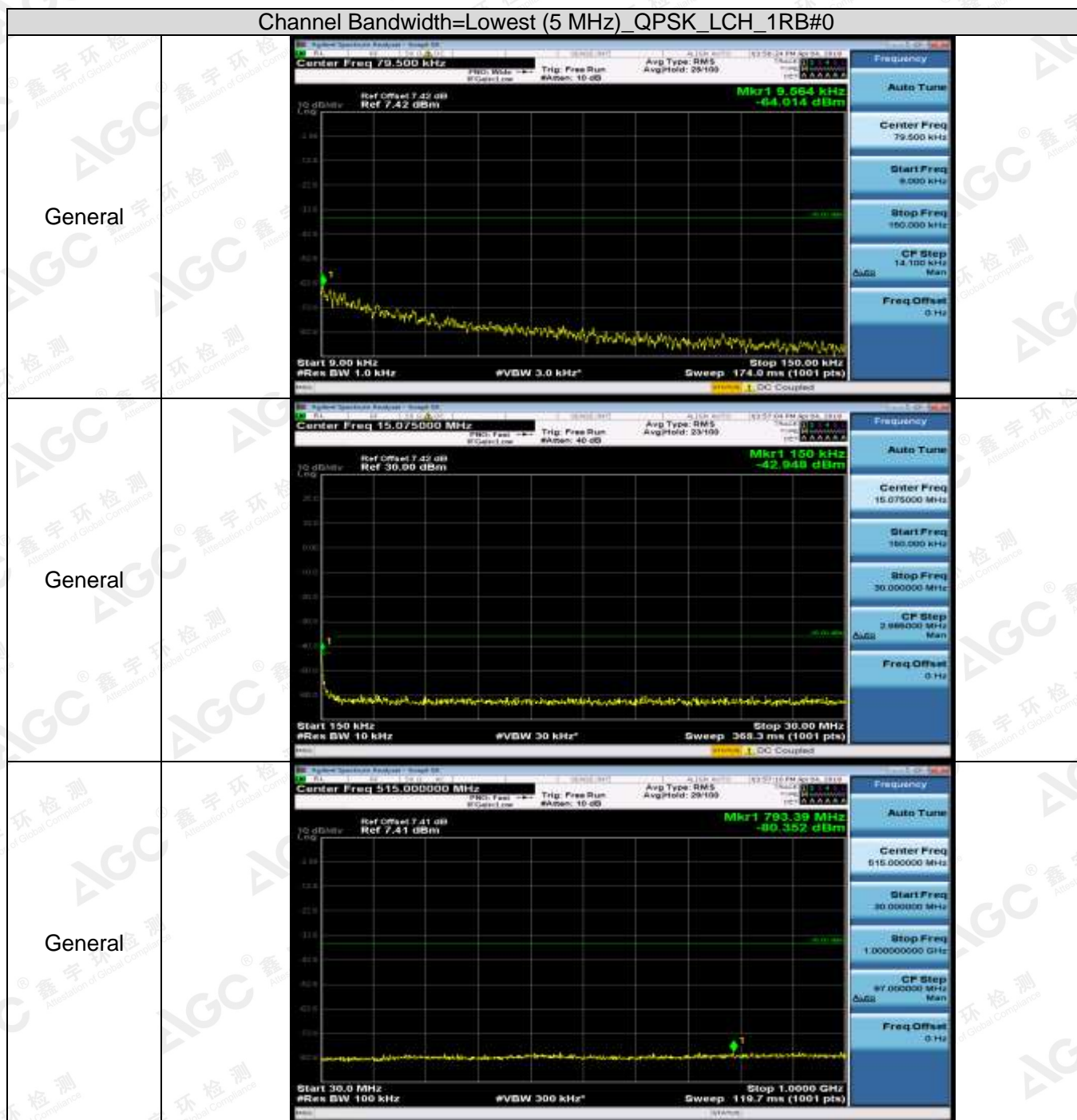
Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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Test Graphs

NTNV

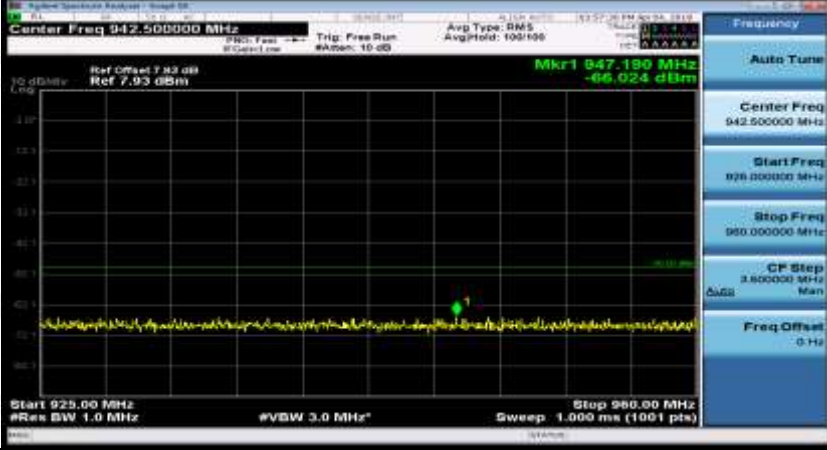
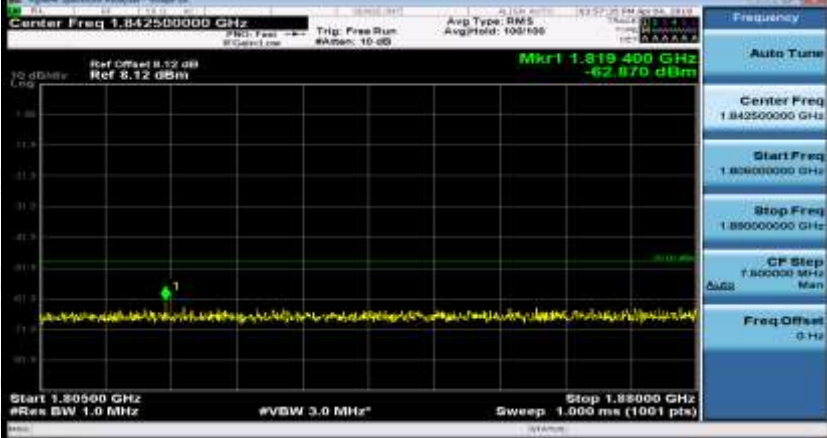
Channel Bandwidth=Lowest (5 MHz)



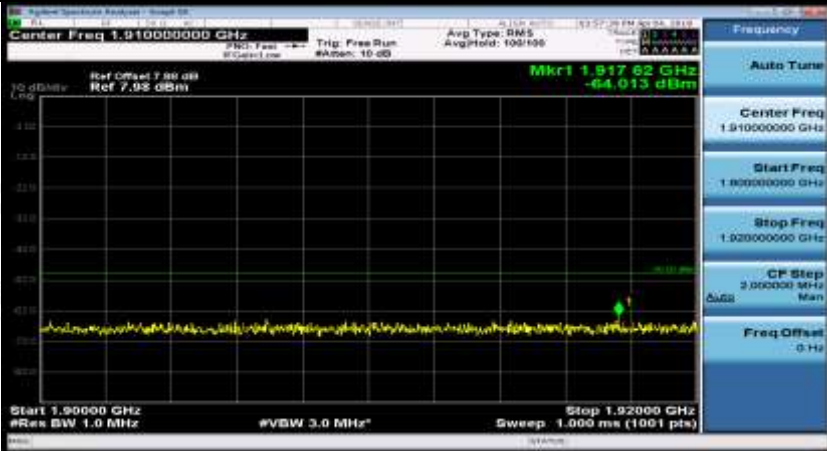
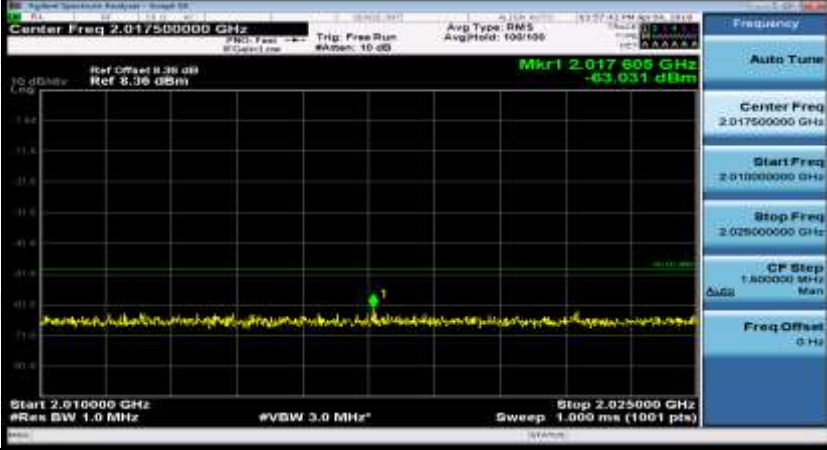
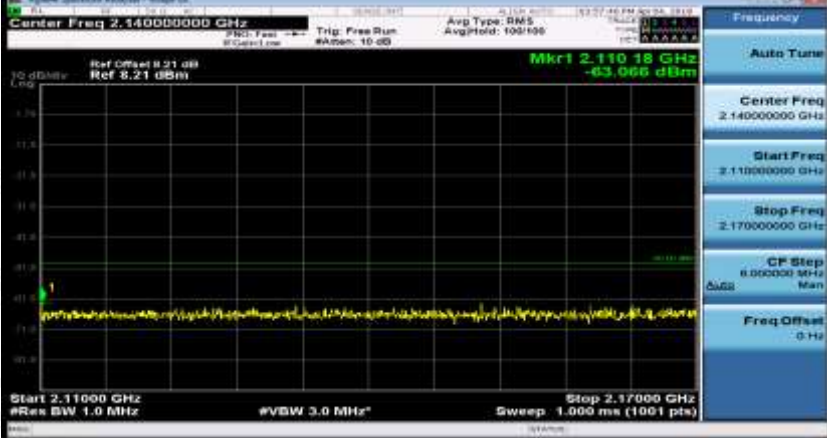
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General			
General			
General			

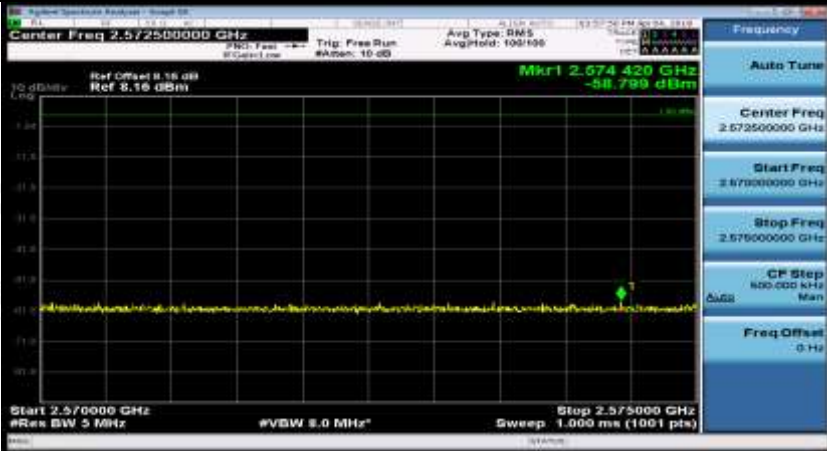
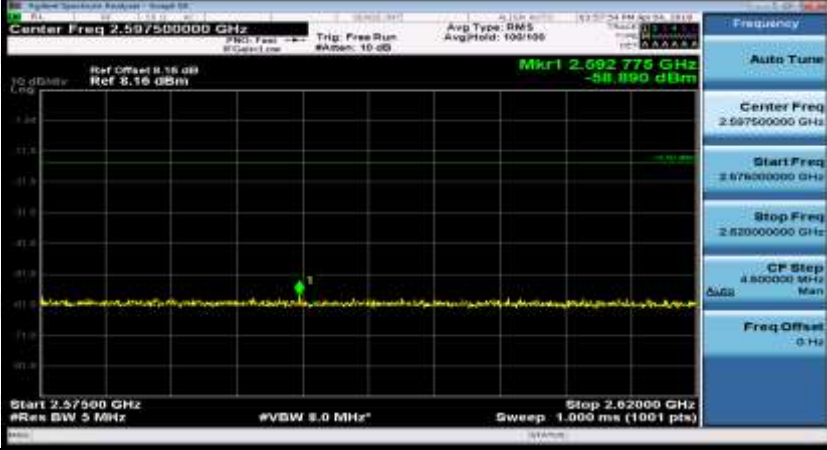
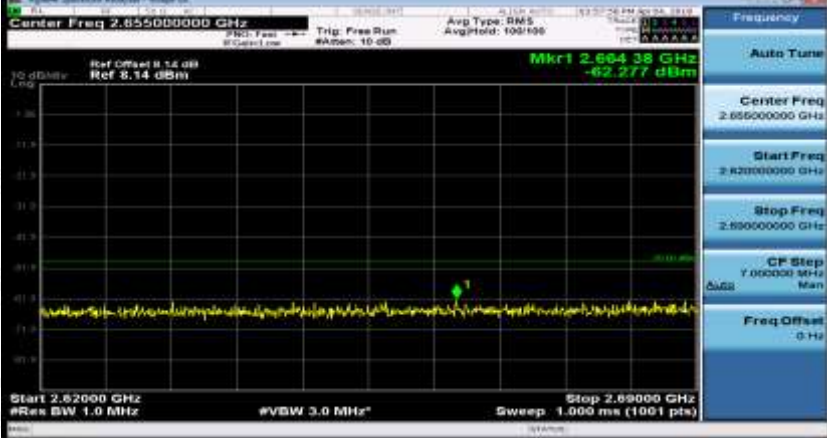
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

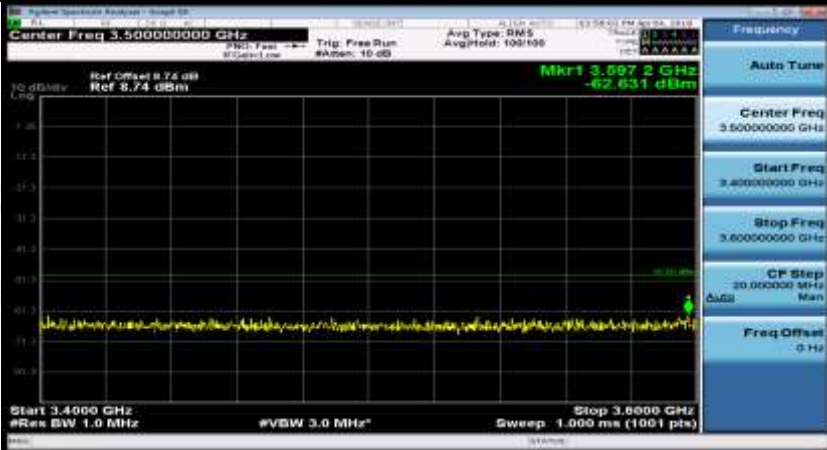

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

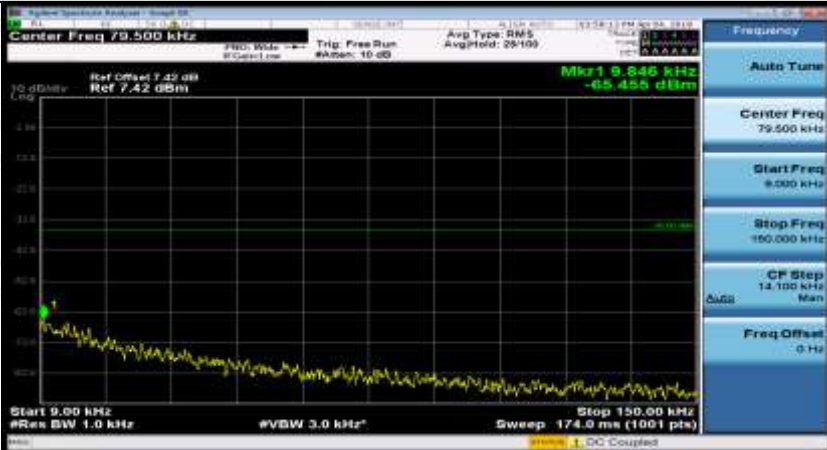
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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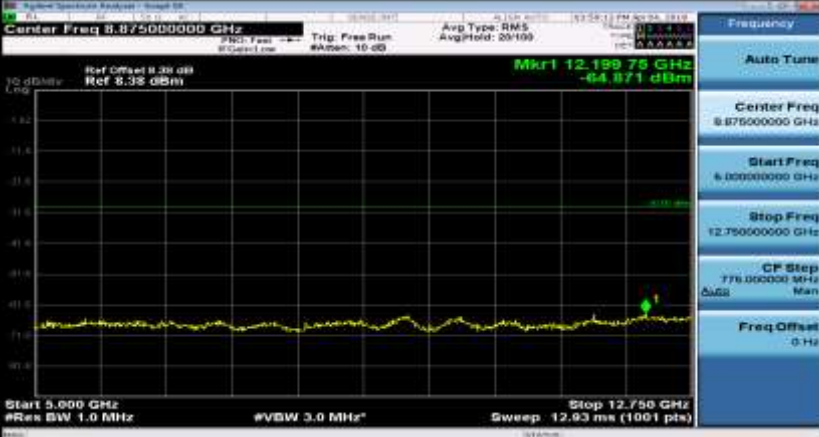
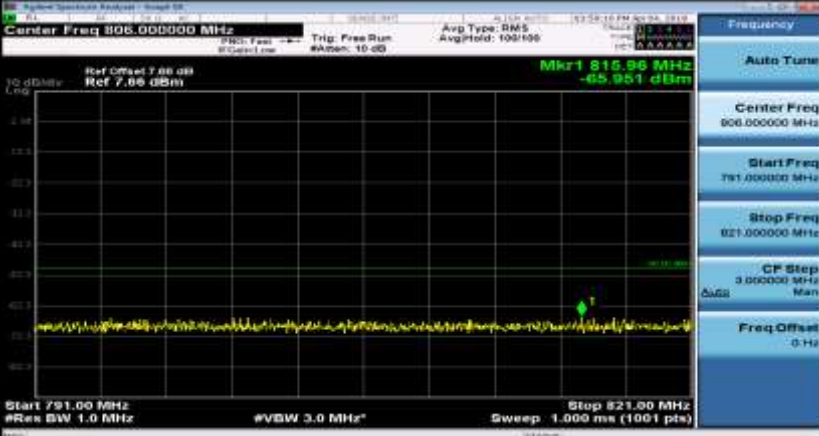
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_1RB#max	
General	

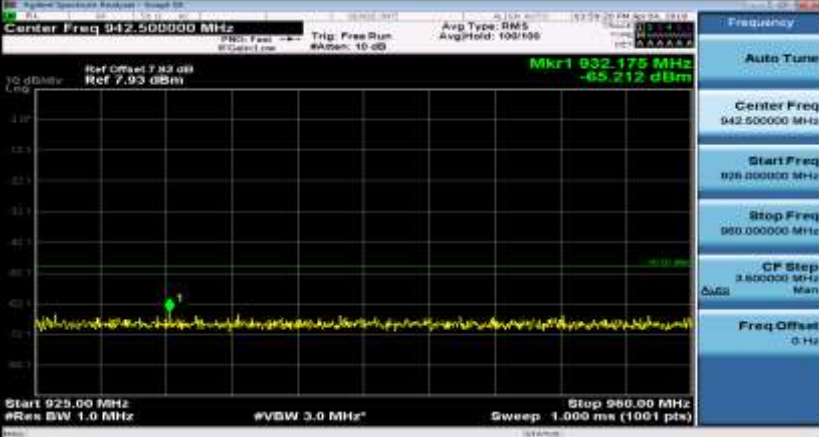
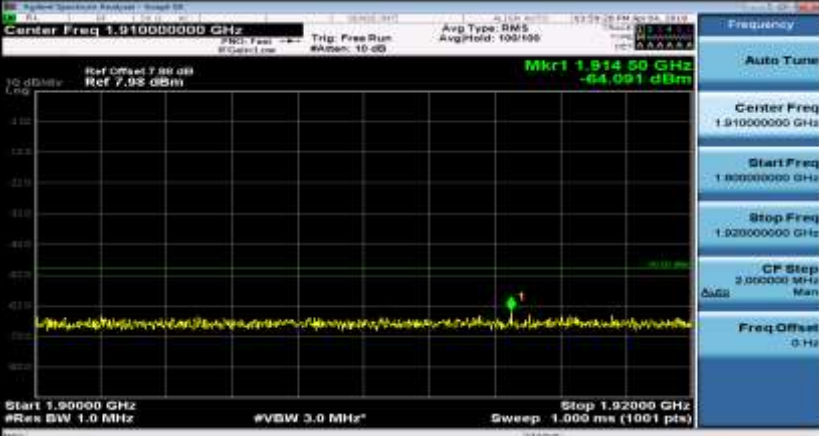
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General			
General			
General			

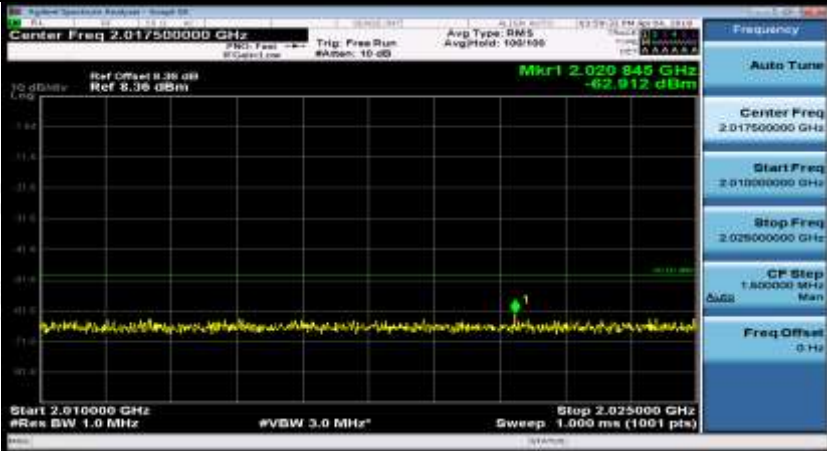
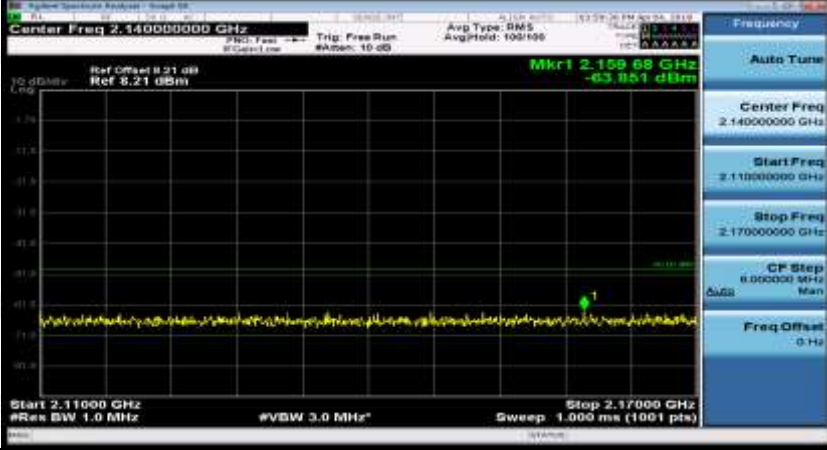
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General			
General			
Co-existence			

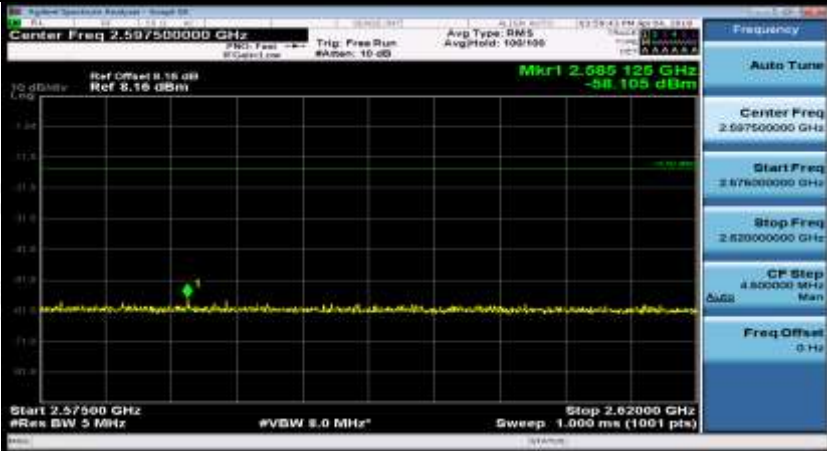

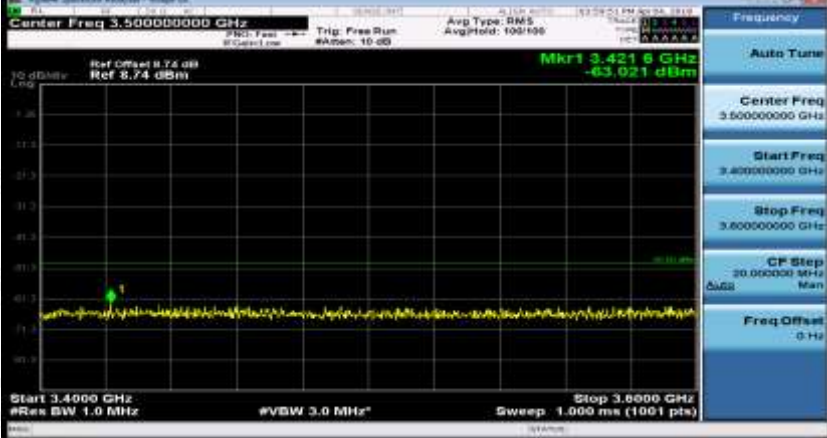
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Co-existence			
Co-existence			
Co-existence			

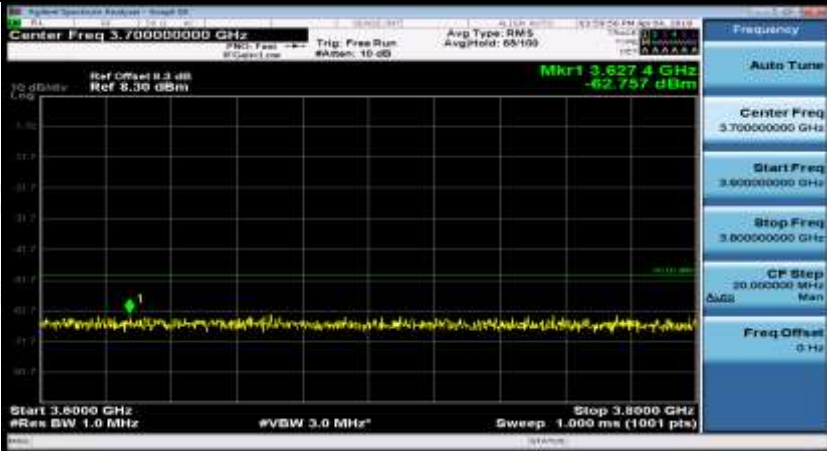
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

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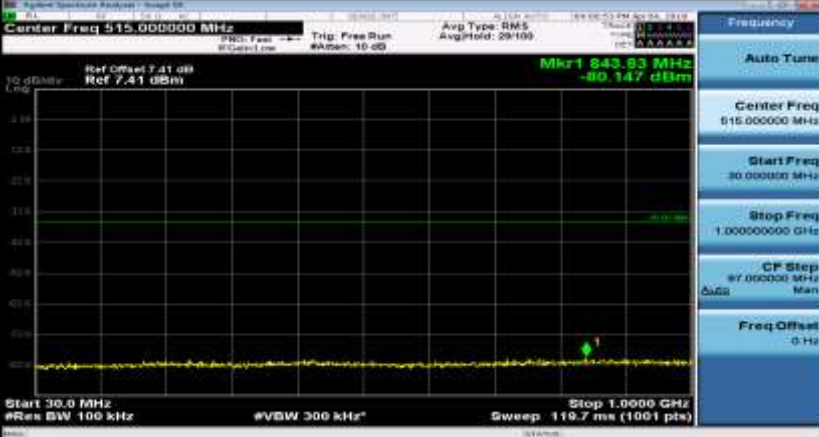


Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullIRB#0	
General	
General	

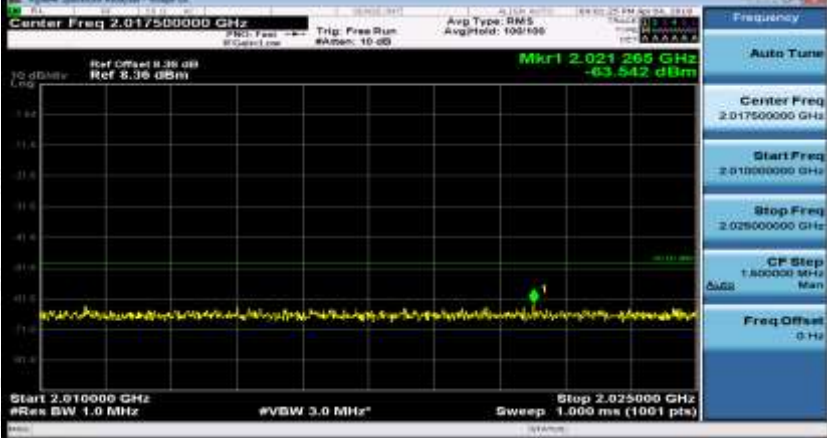
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General			
General			
General			


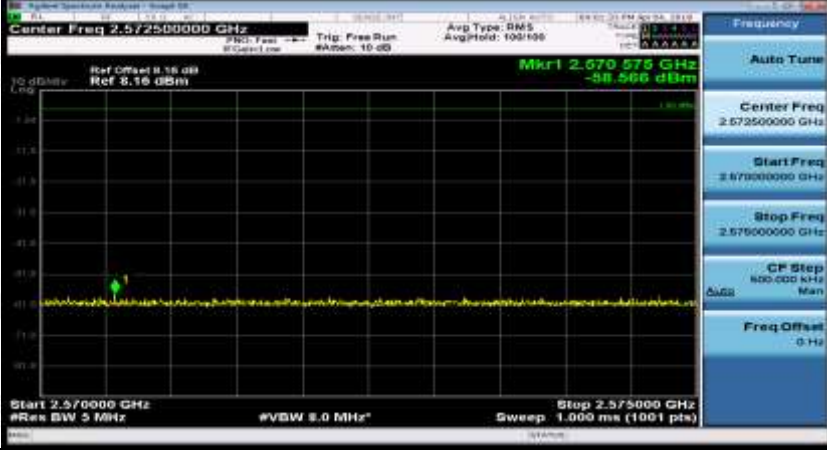
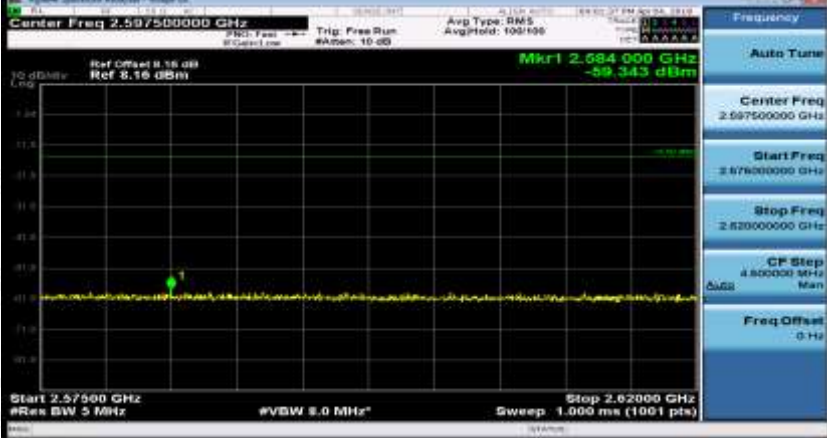
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General			
Co-existence			
Co-existence			

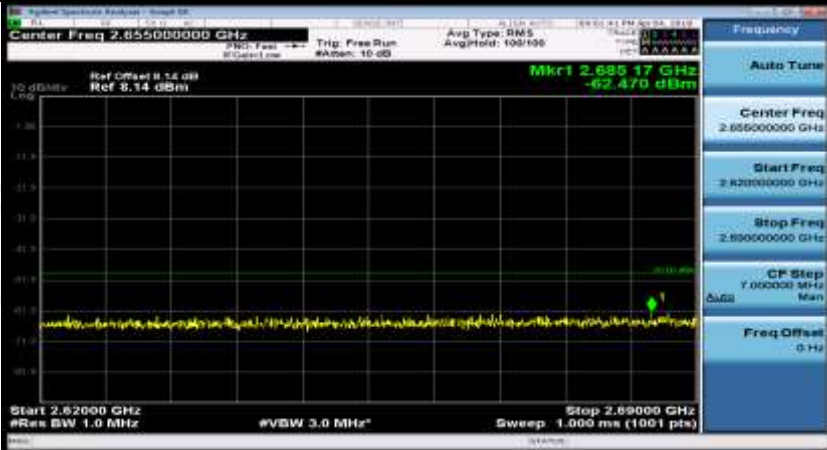
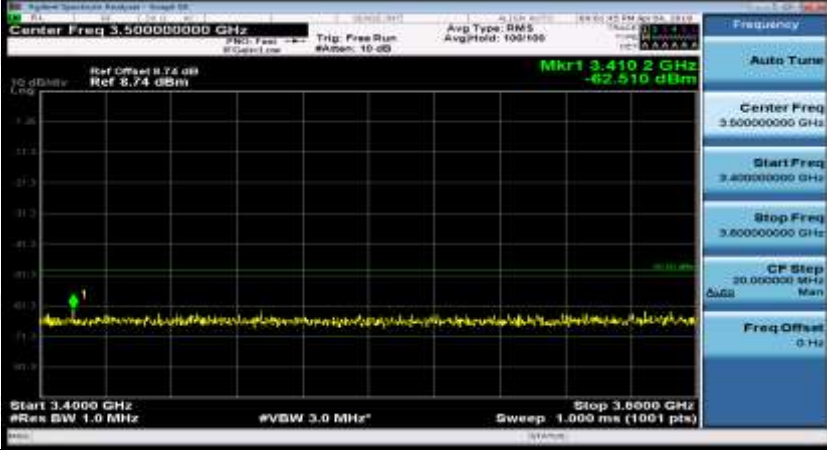
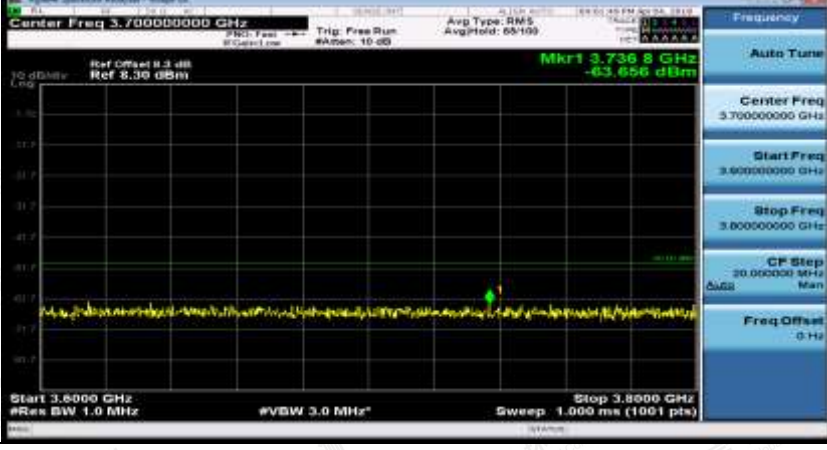
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Co-existence	
Co-existence	
Co-existence	

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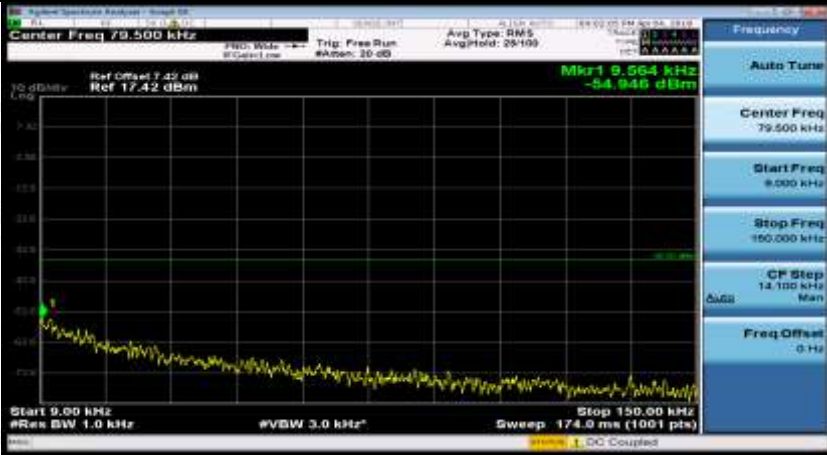
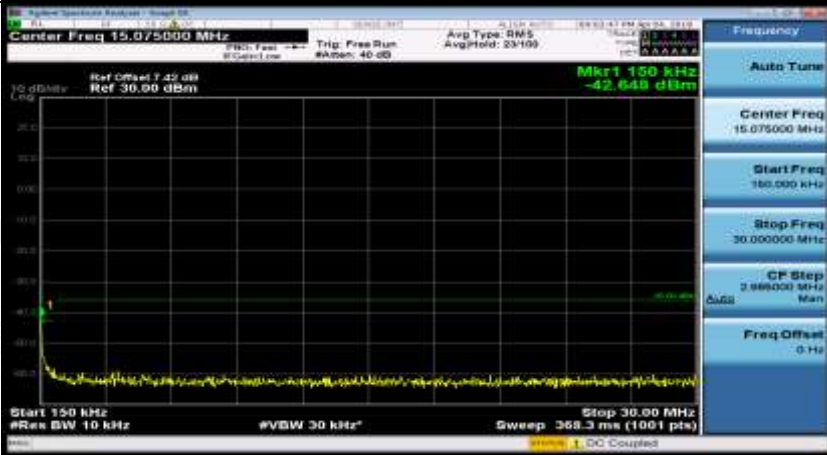
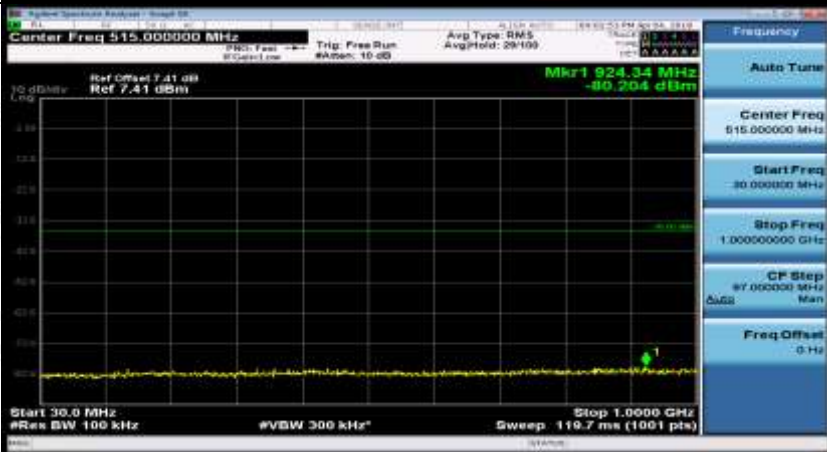
Co-existence	
Co-existence	
Co-existence	

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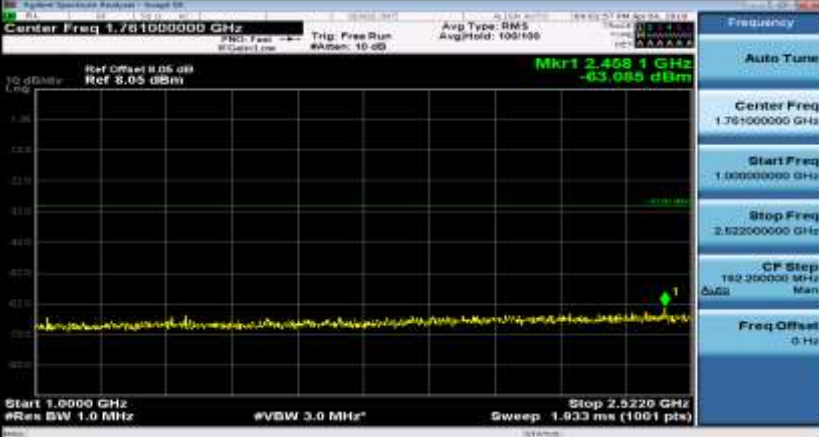


Co-existence	
Co-existence	
Co-existence	
Additional	NA

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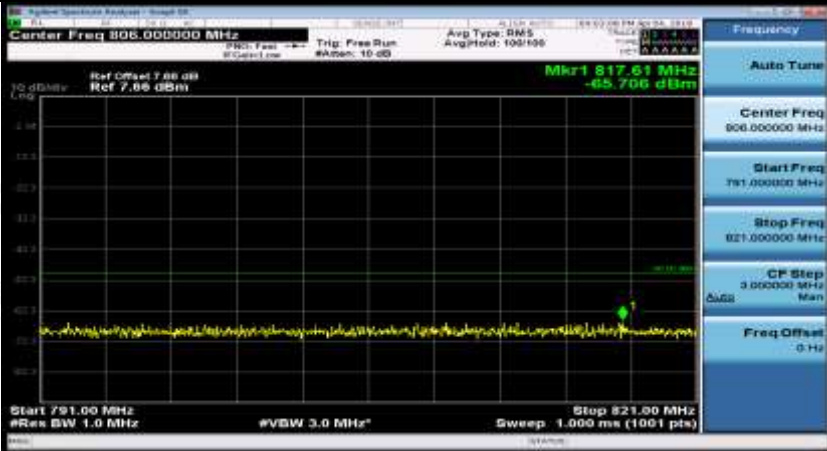
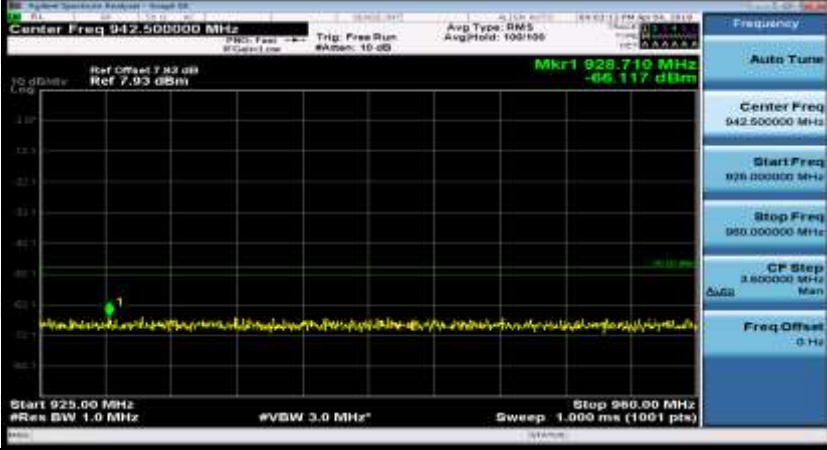
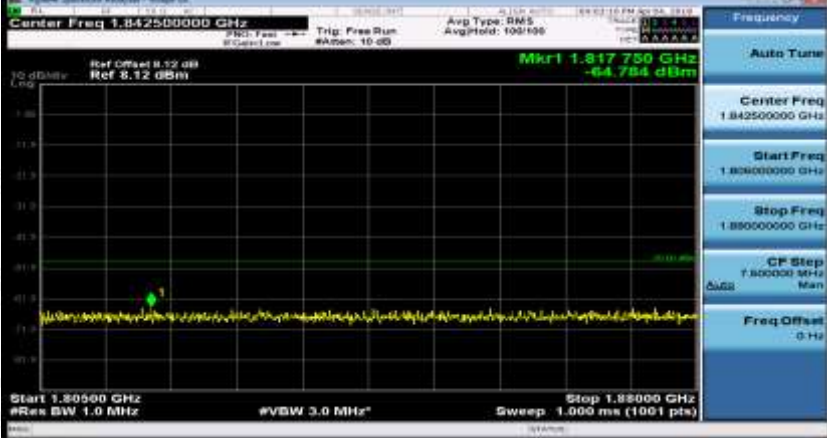
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#0

General	
General	
General	

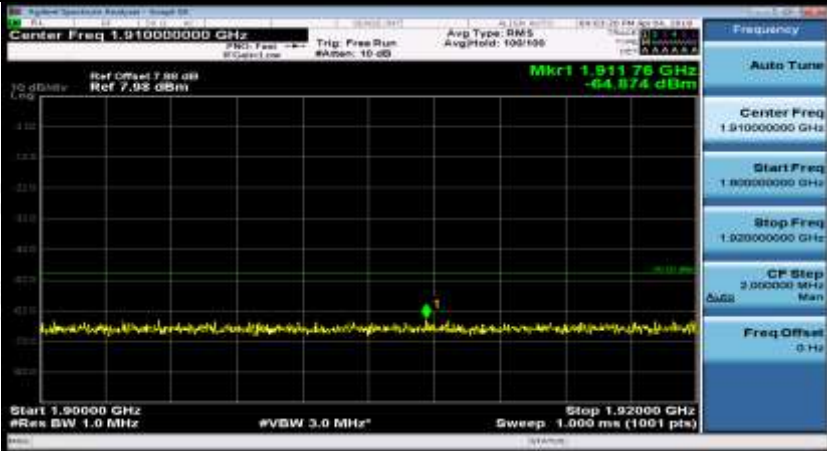
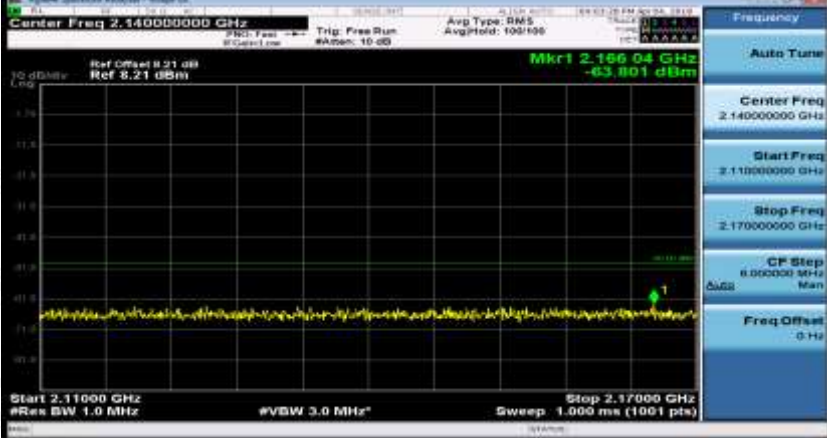
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General			
General			
General			

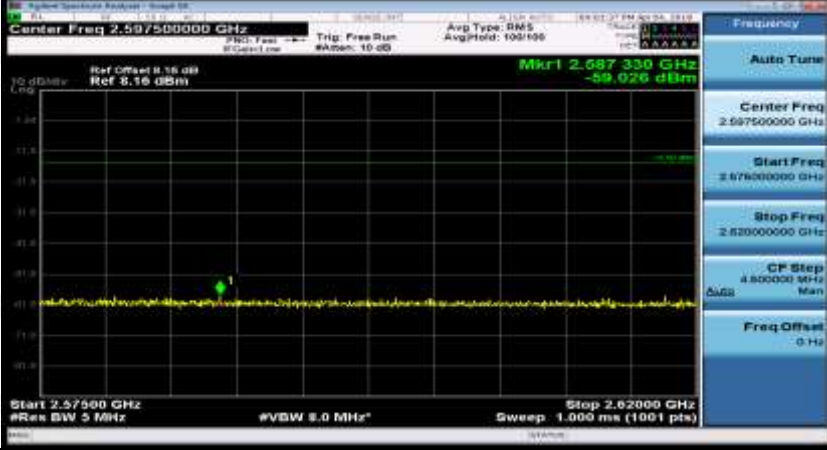
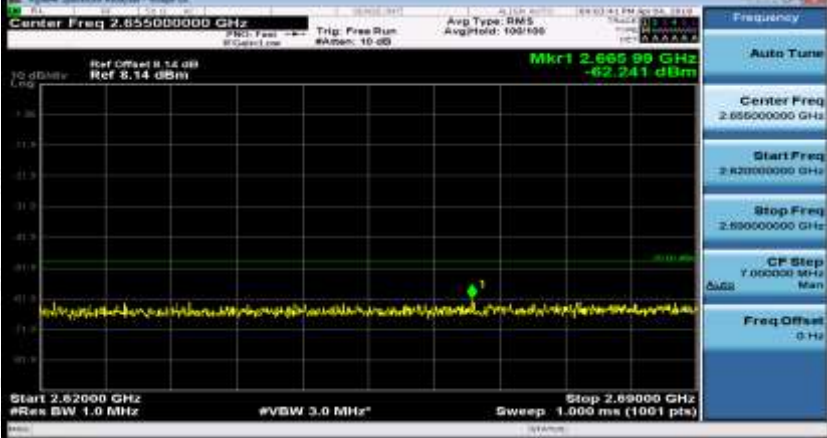
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Co-existence	
Co-existence	
Co-existence	

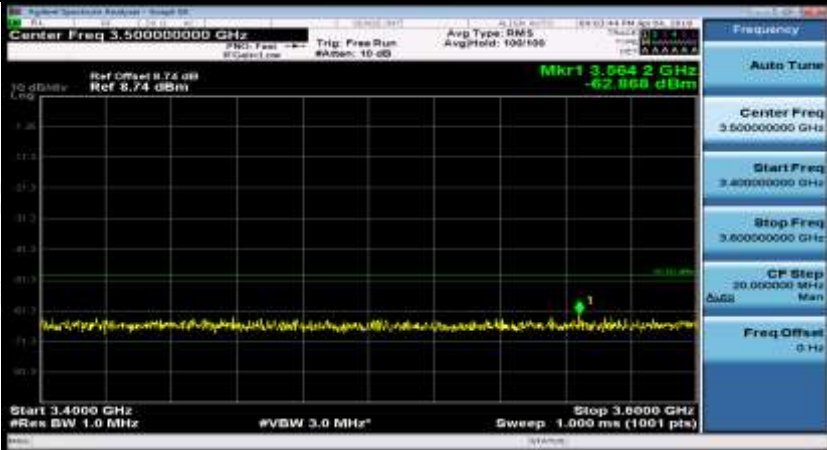
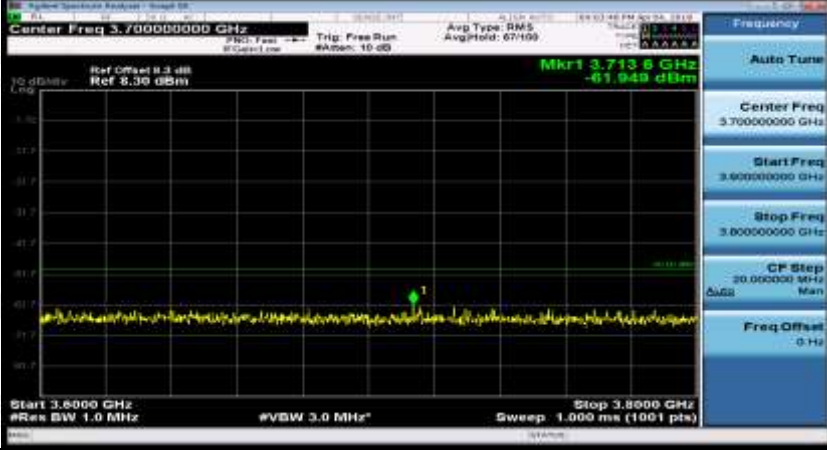
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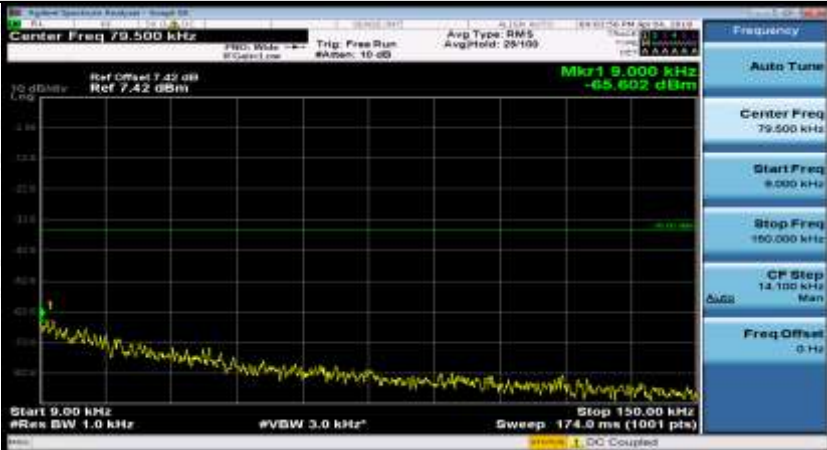
Co-existence	
Co-existence	
Co-existence	

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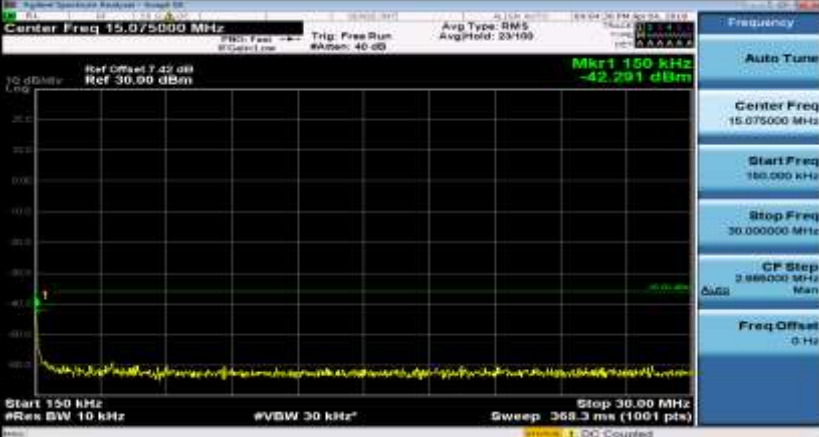
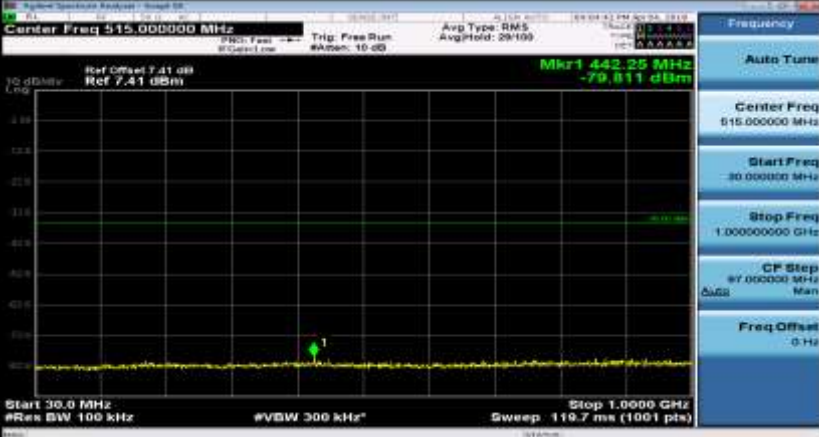
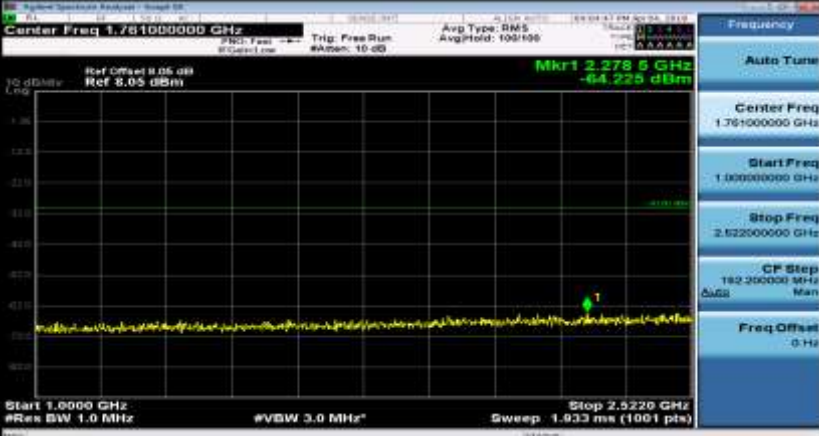
Co-existence	
Co-existence	
Co-existence	

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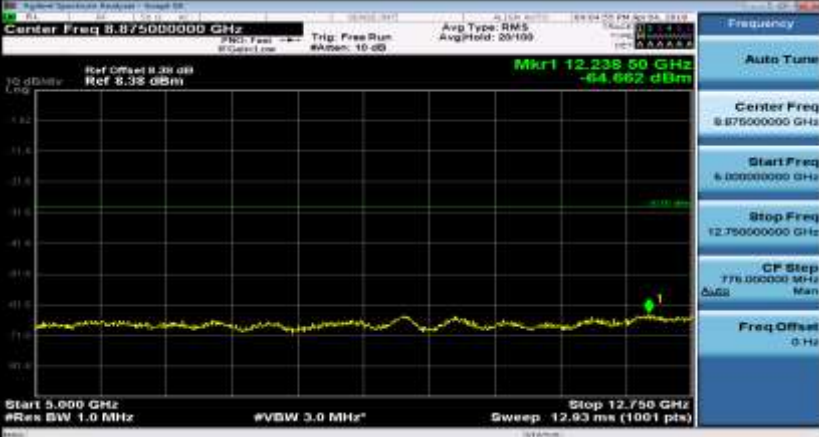
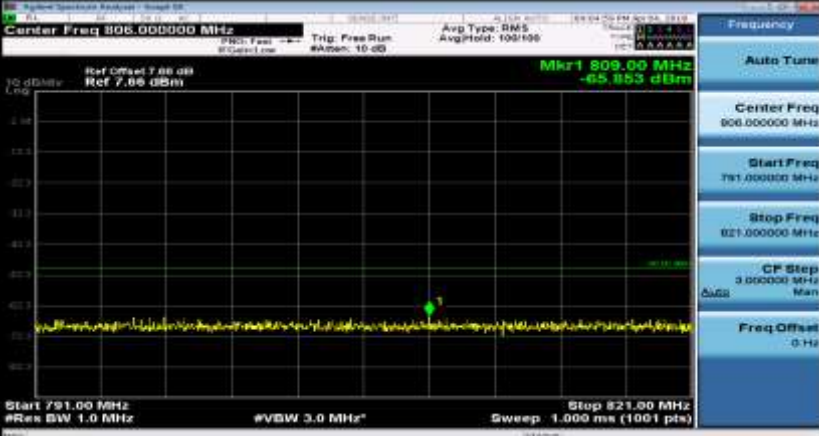
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#max	
General	

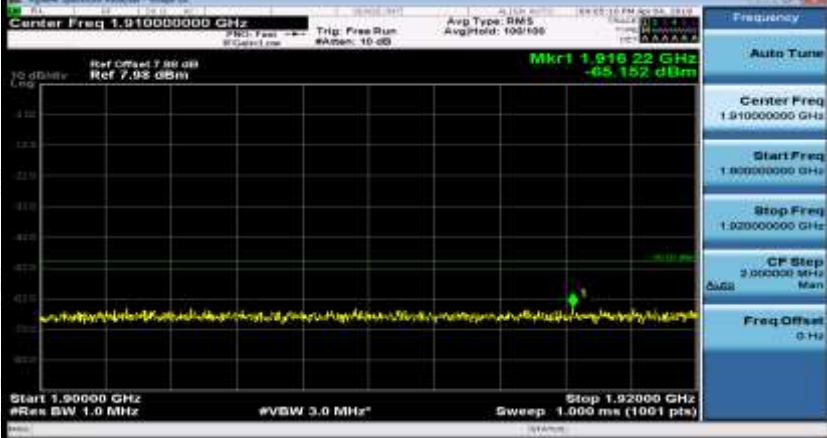
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General			
General			
General			

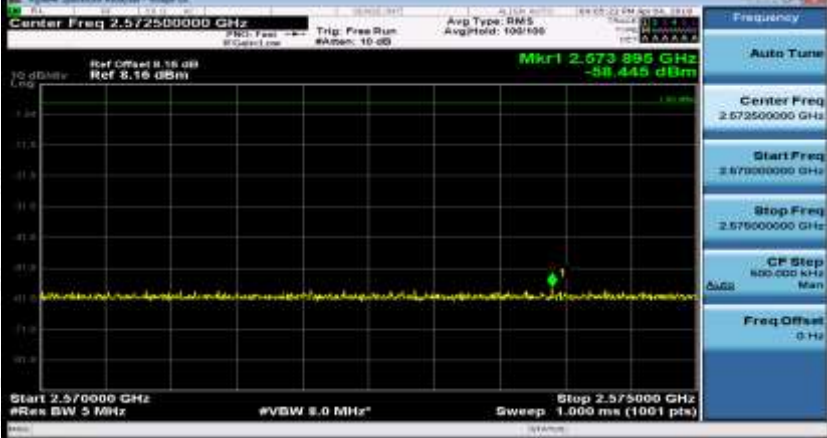
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General		 <p>Center Freq 3.77400000 GHz Mkr1 4.9681 GHz -64.629 dBm Start 2.548 GHz Stop 5.000 GHz Sweep 4.133 ms (1001 pts)</p>	
General		 <p>Center Freq 8.87500000 GHz Mkr1 12.23850 GHz -64.662 dBm Start 5.000 GHz Stop 12.750 GHz Sweep 12.93 ms (1001 pts)</p>	
Co-existence		 <p>Center Freq 808.000000 MHz Mkr1 809.00 MHz -65.853 dBm Start 791.00 MHz Stop 821.00 MHz Sweep 1.000 ms (1001 pts)</p>	

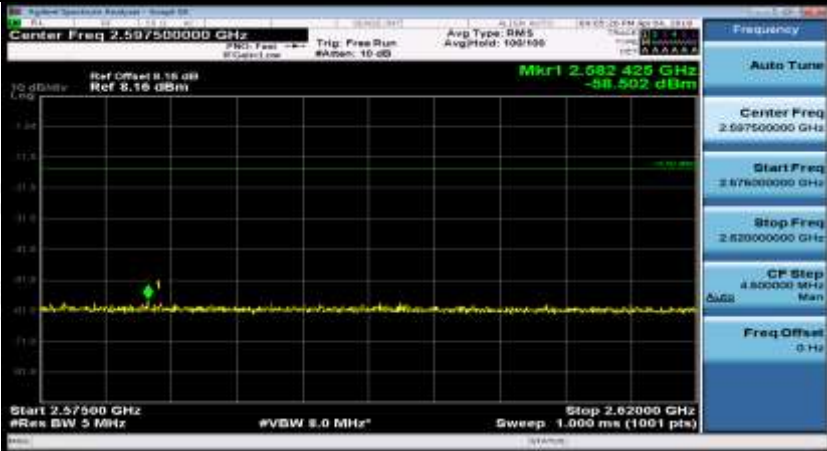
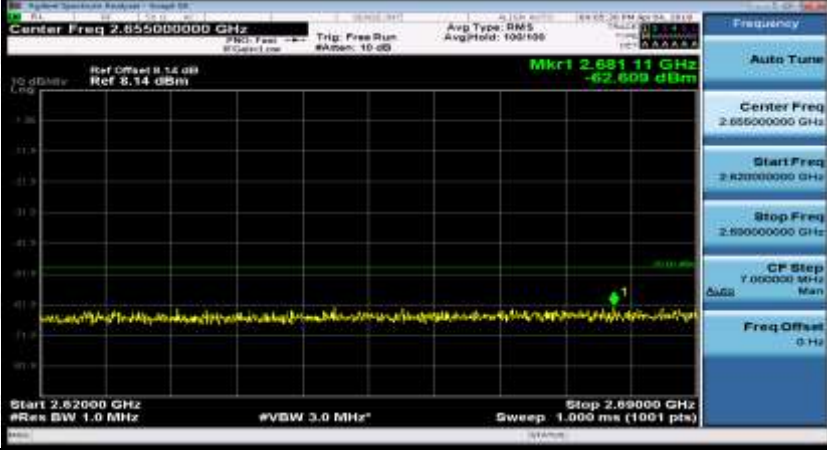
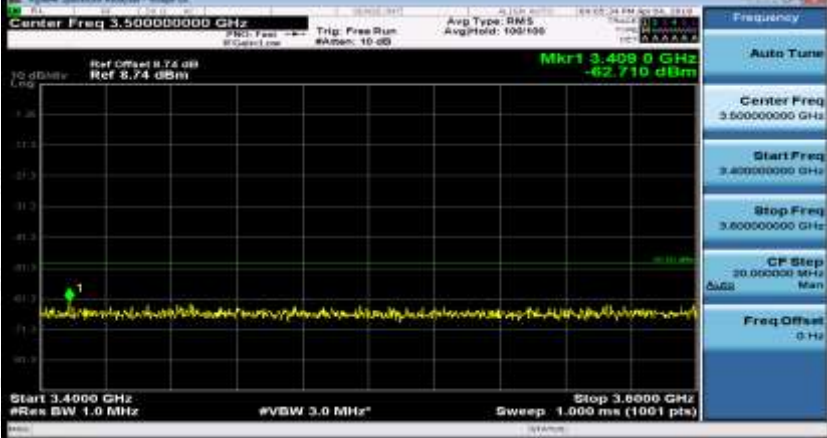
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Co-existence	
Co-existence	
Co-existence	

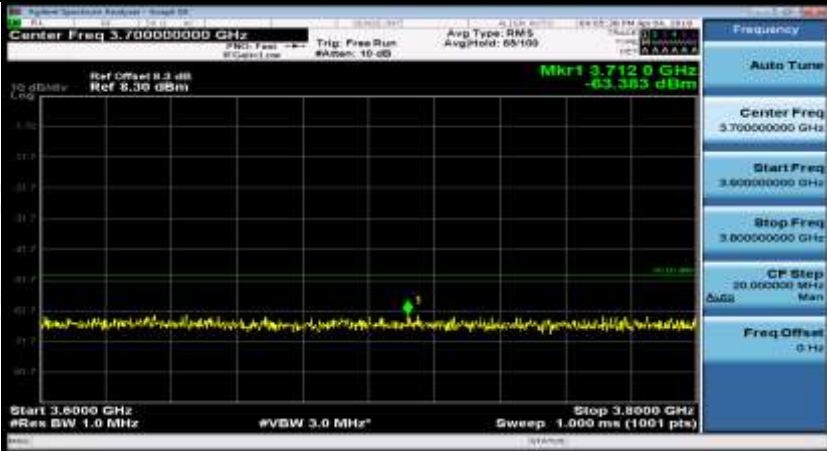
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Co-existence	
Co-existence	
Co-existence	

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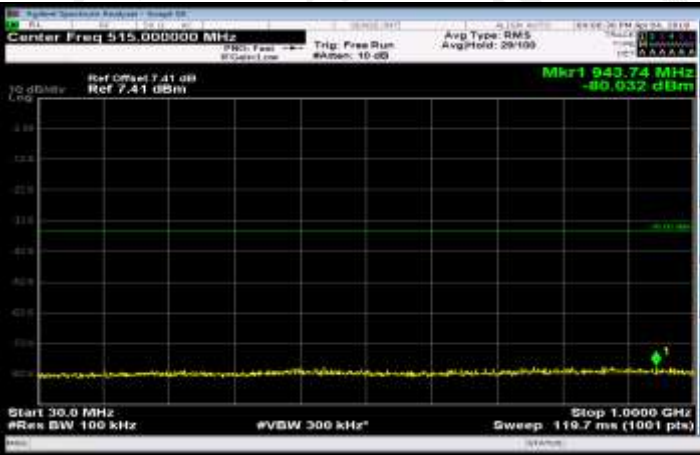
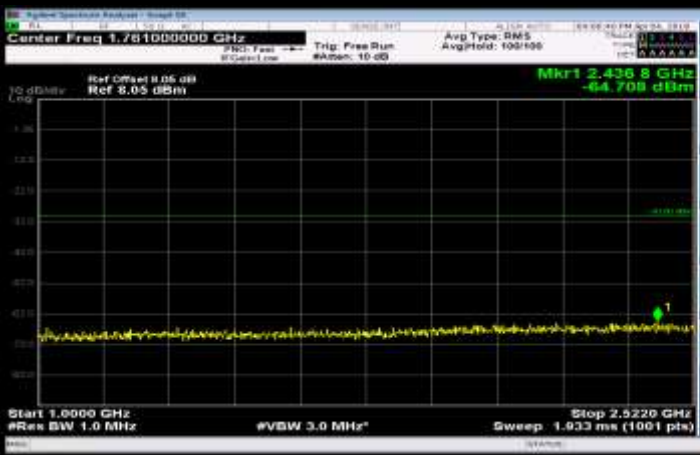
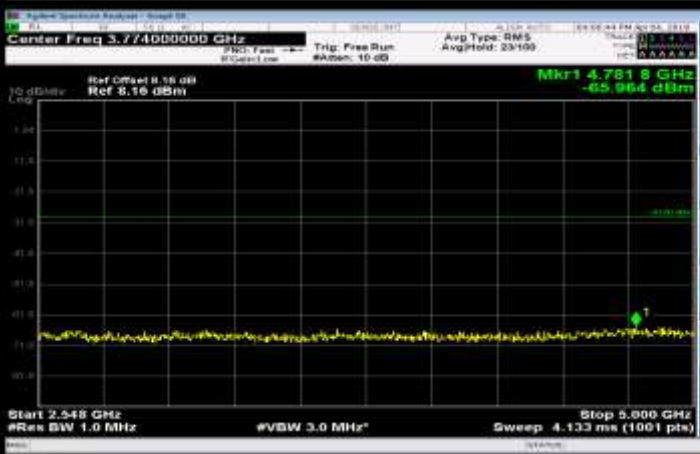
Co-existence	
Co-existence	
Co-existence	

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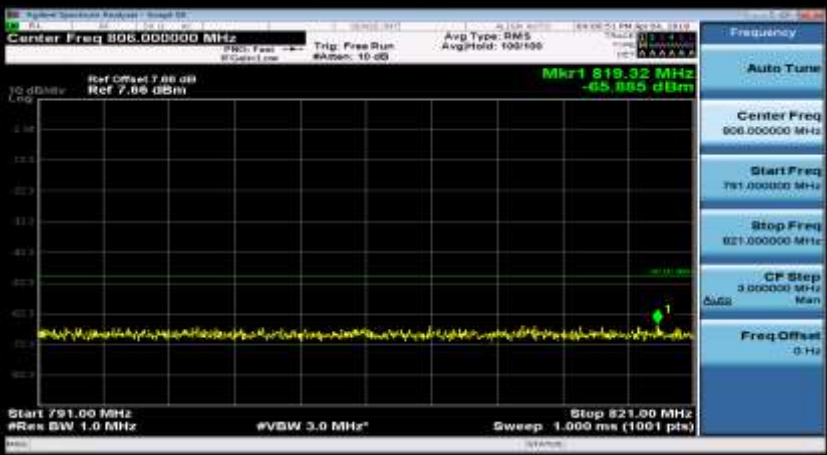
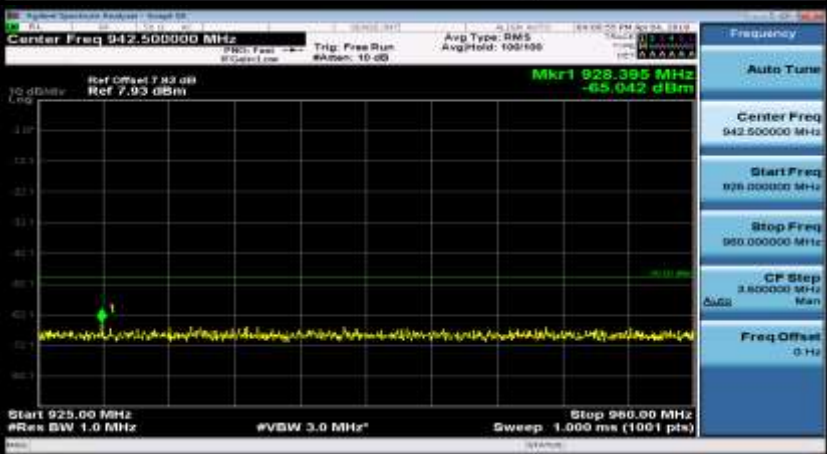
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullIRB#0	
General	
General	

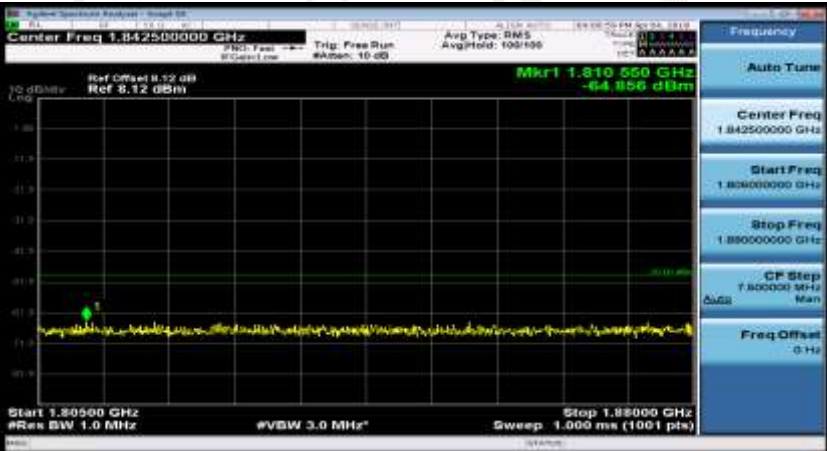
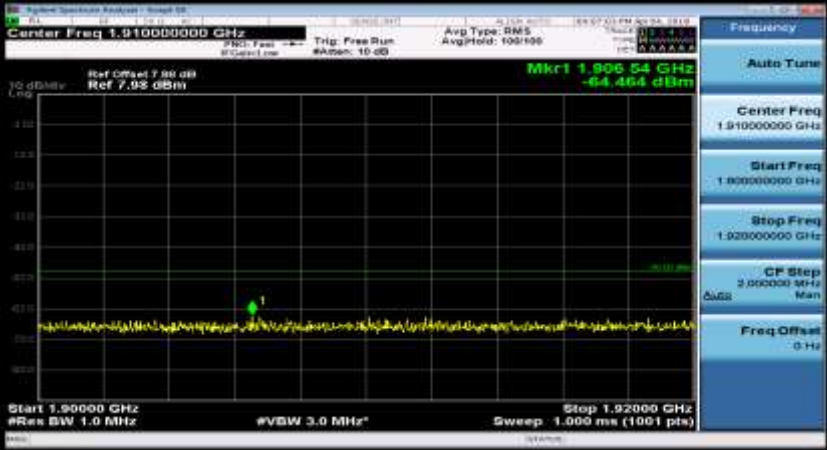
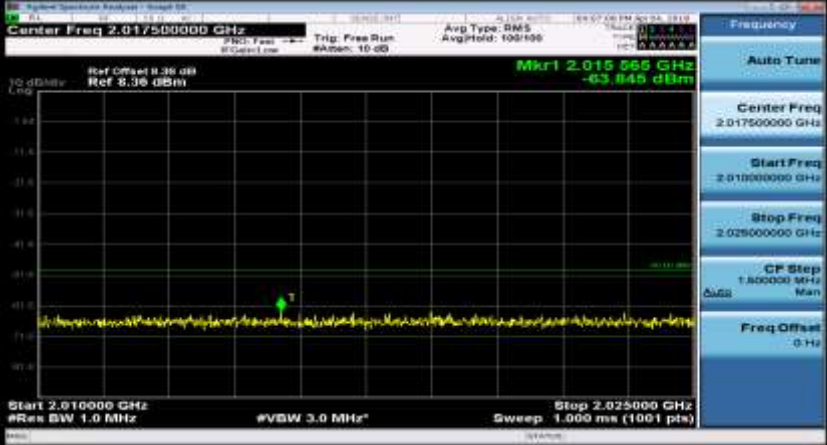
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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.00000000 GHz</p> <p>CF Step 87.000000 MHz Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 1.76100000 GHz</p> <p>Start Freq 1.00000000 GHz</p> <p>Stop Freq 2.52200000 GHz</p> <p>CF Step 182.000000 MHz Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.77400000 GHz</p> <p>Start Freq 2.84800000 GHz</p> <p>Stop Freq 5.00000000 GHz</p> <p>CF Step 245.000000 MHz Man</p> <p>Freq Offset 0 Hz</p>

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General	
Co-existence	
Co-existence	

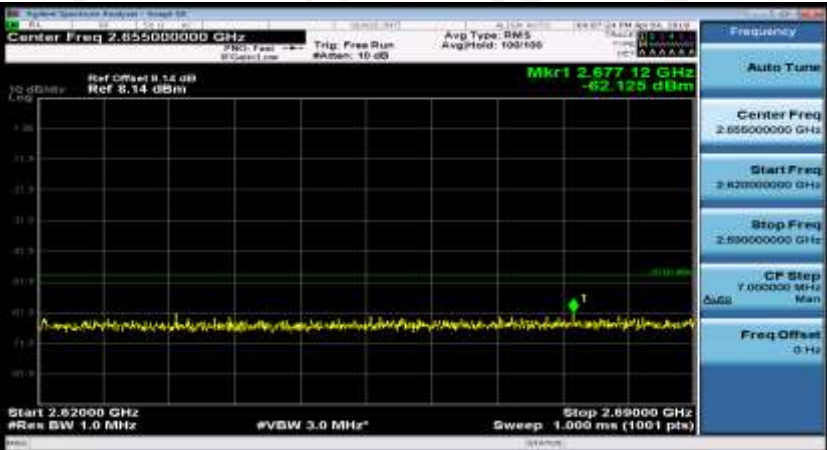
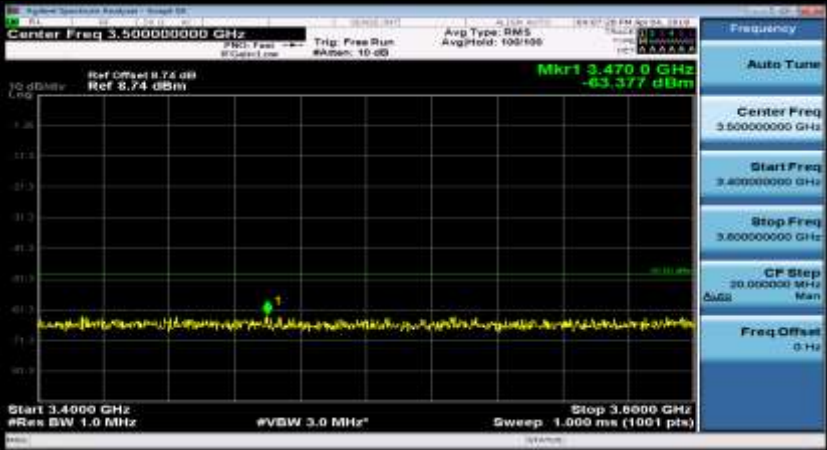
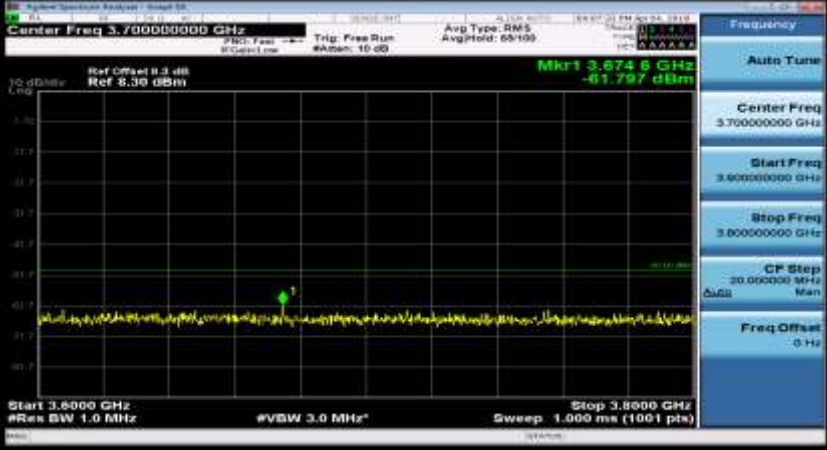
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Co-existence	
Co-existence	
Co-existence	

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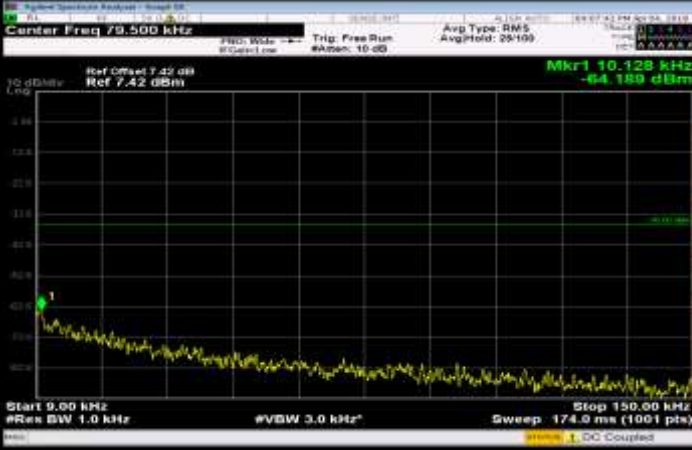
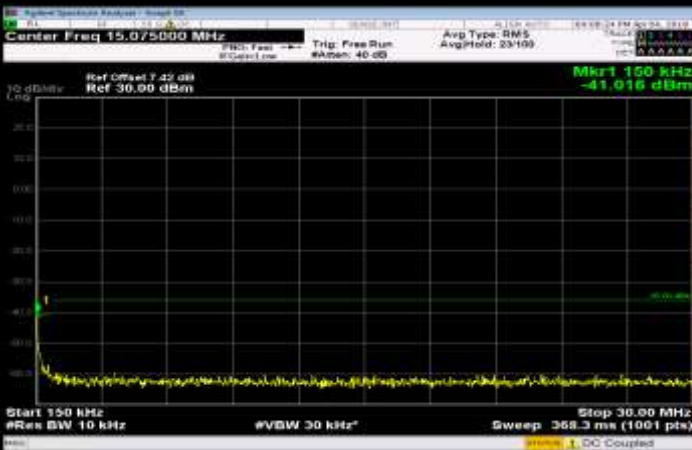
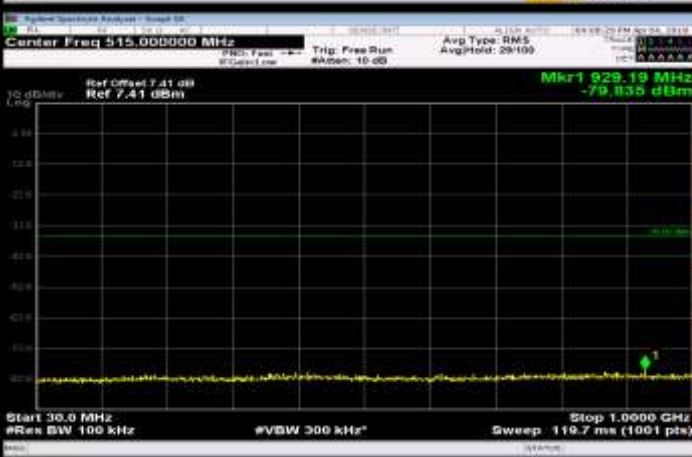
Co-existence	
Co-existence	
Co-existence	

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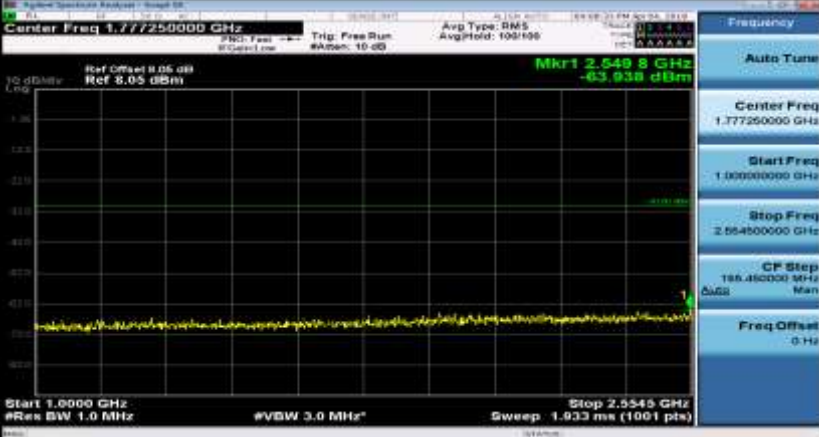


Co-existence	
Co-existence	
Co-existence	
Additional	NA

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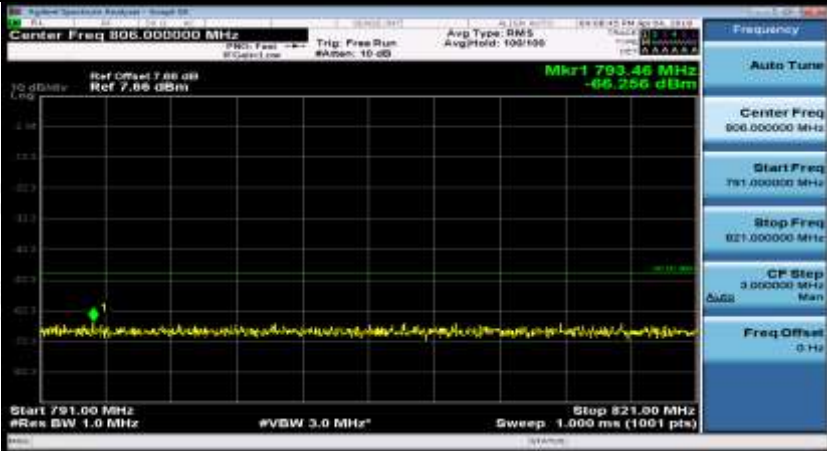
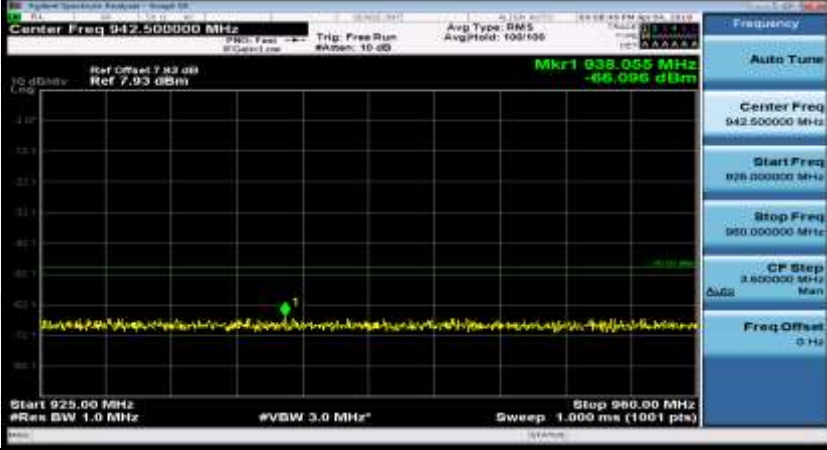
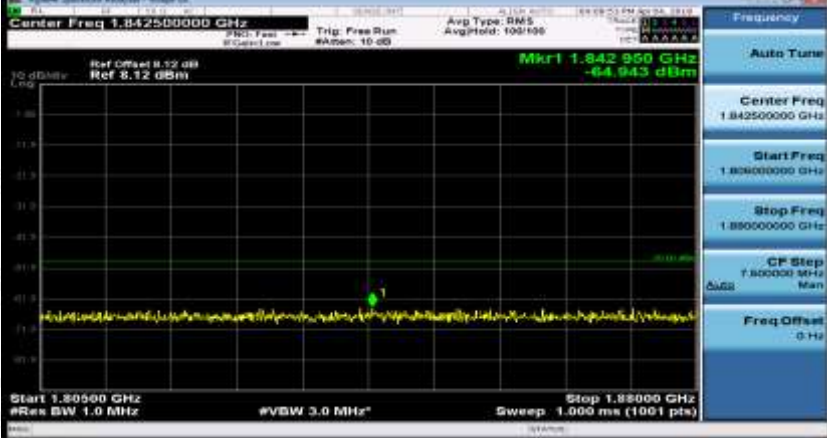
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#0

General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 79.500 kHz</p> <p>Start Freq 8.000 kHz</p> <p>Stop Freq 150.000 kHz</p> <p>CF Step 14.100 kHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 15.075000 MHz</p> <p>Start Freq 150.000 kHz</p> <p>Stop Freq 30.000000 MHz</p> <p>CF Step 3.999000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.00000000 GHz</p> <p>CF Step 87.000000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>

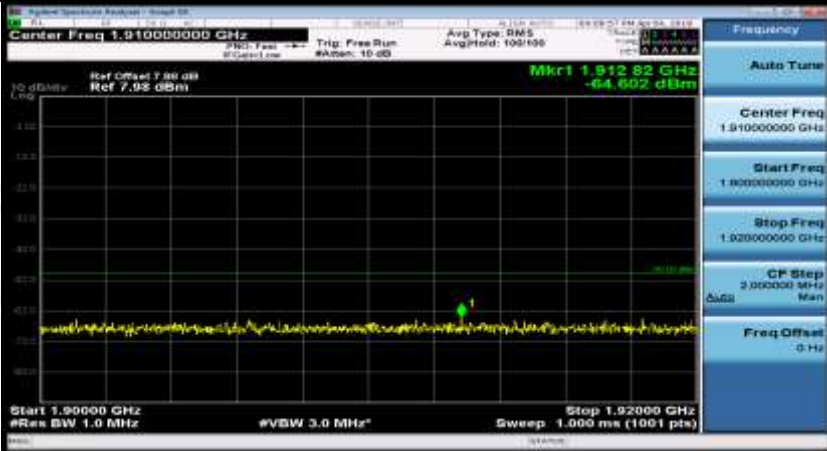
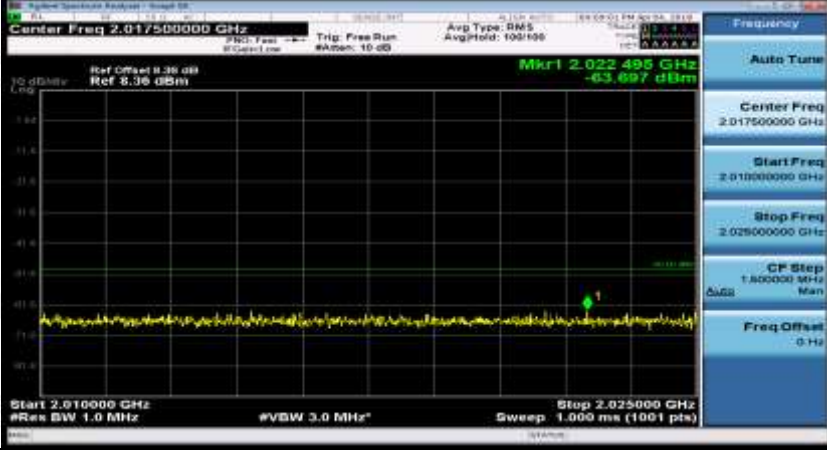
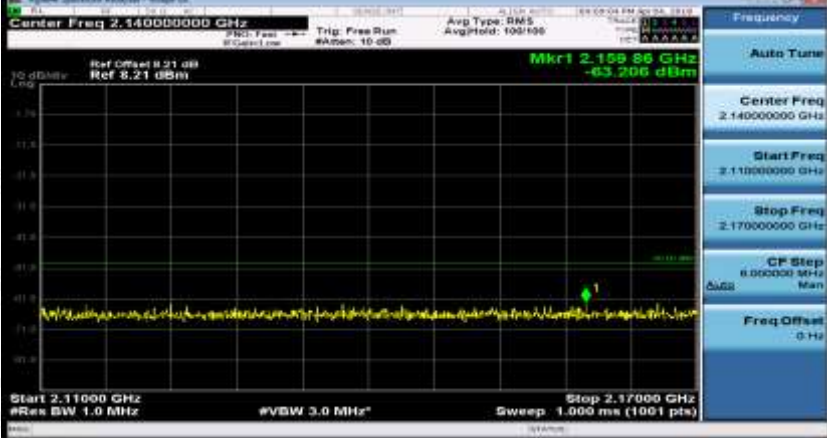
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General			
General			
General			

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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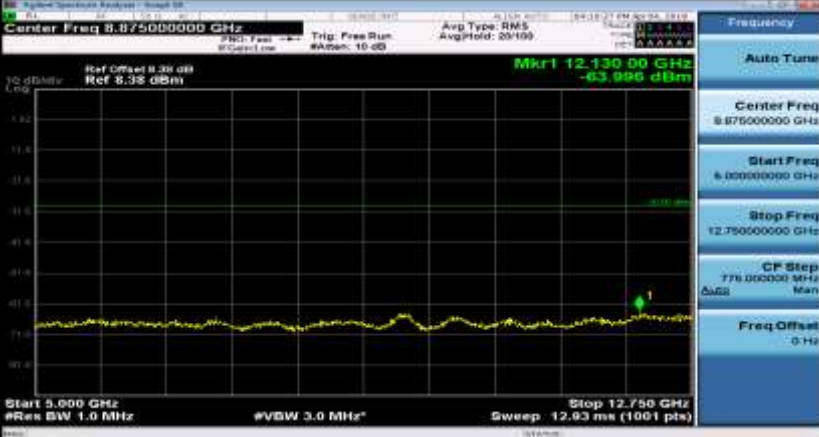
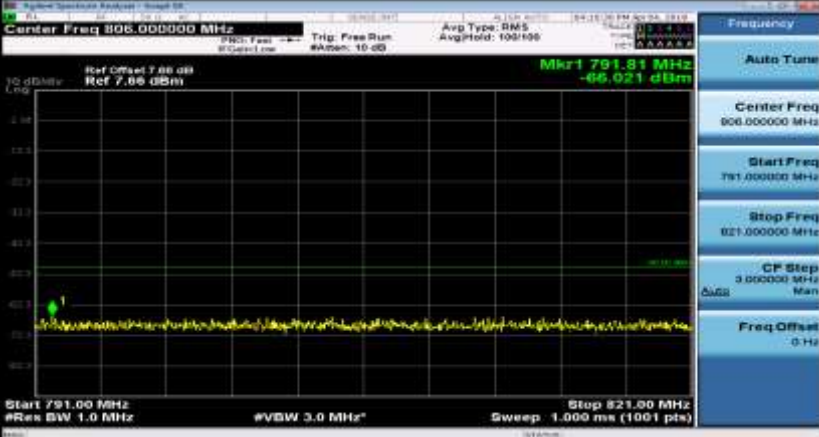
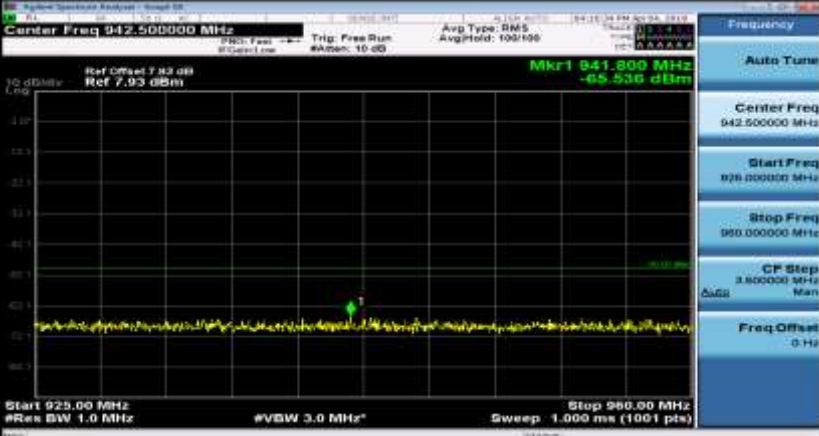
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#max	
General	
General	

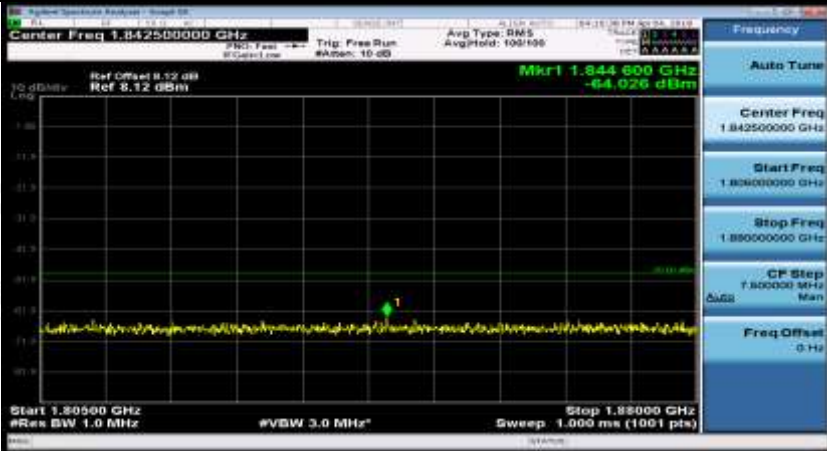
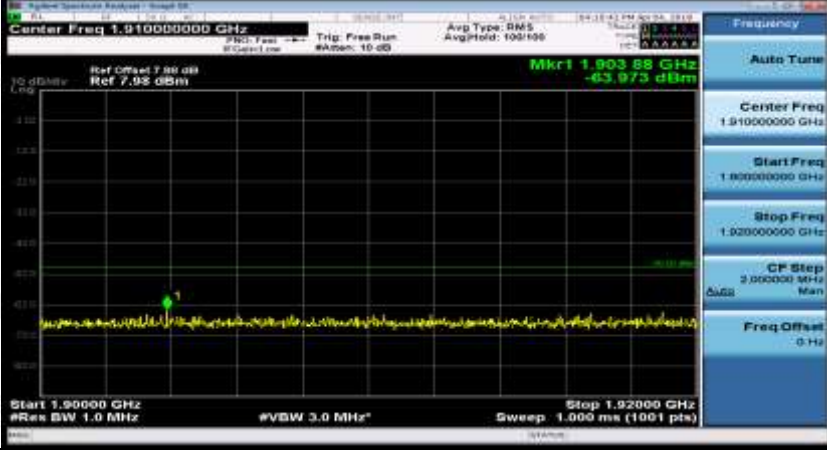
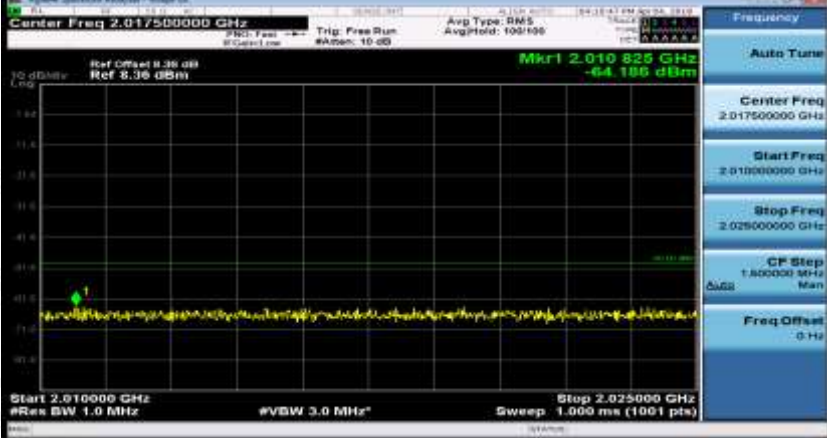
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General			
General			
General			

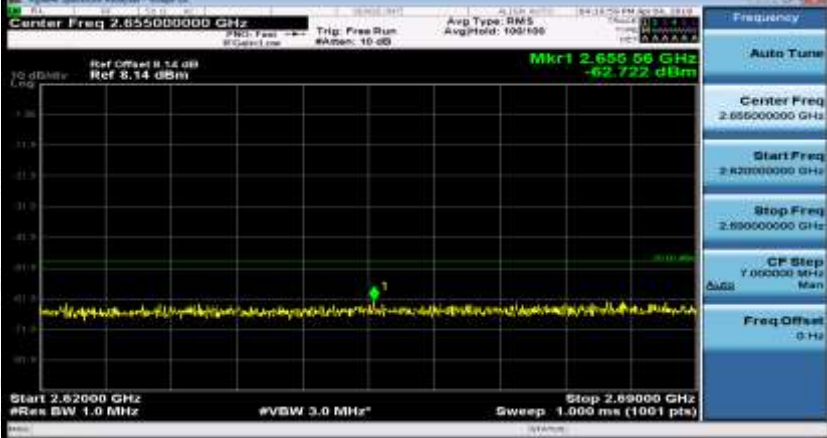
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General			
Co-existence			
Co-existence			

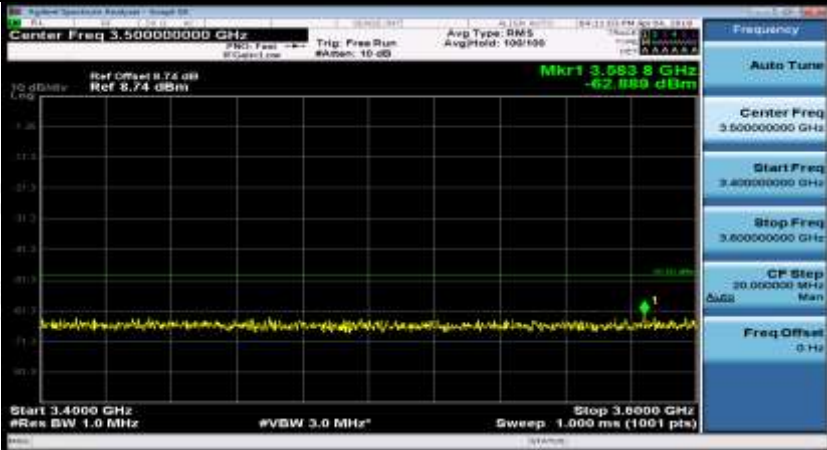

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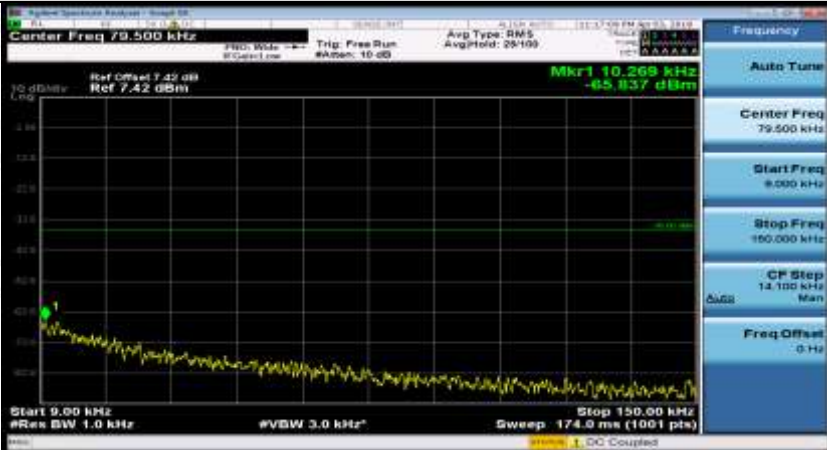
Co-existence	
Co-existence	
Co-existence	

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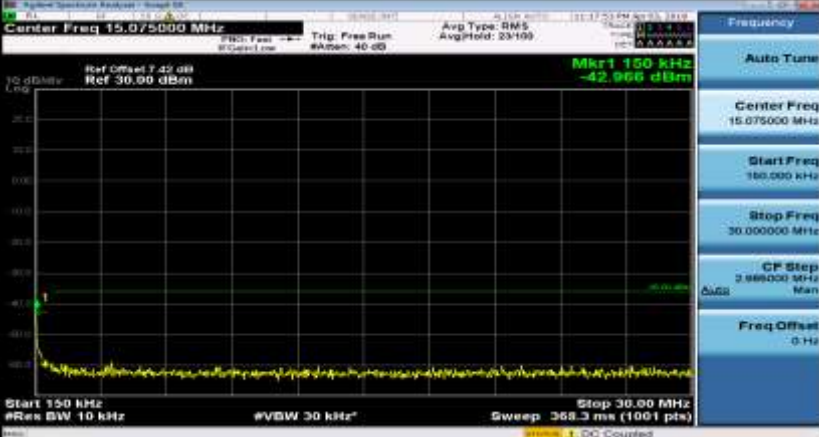
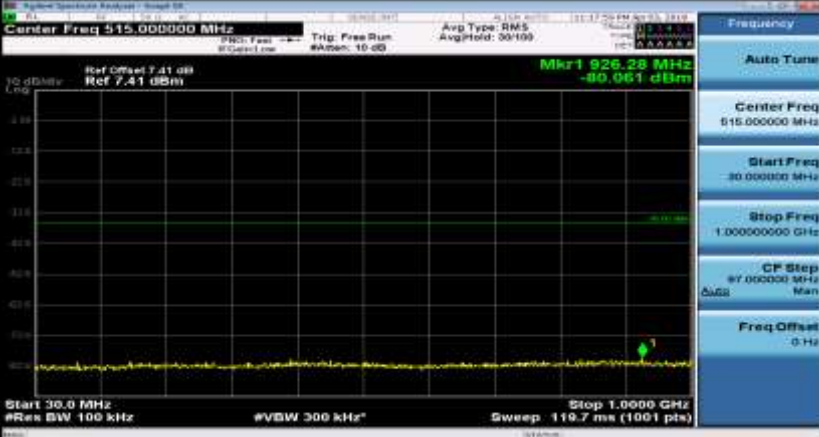

Co-existence	
Co-existence	
Co-existence	

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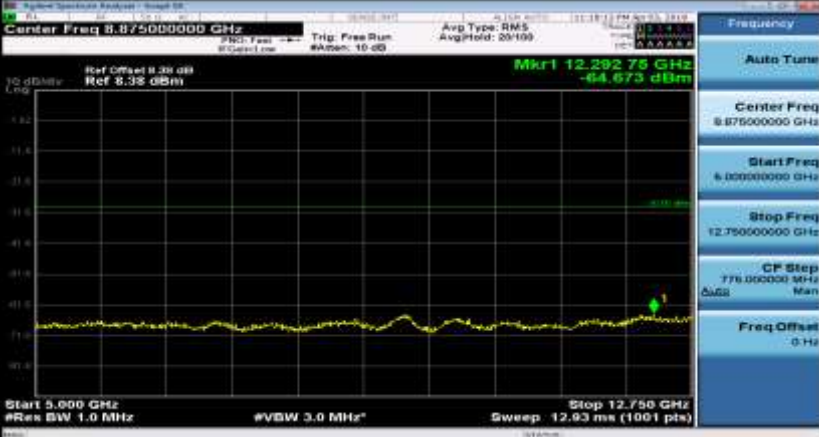
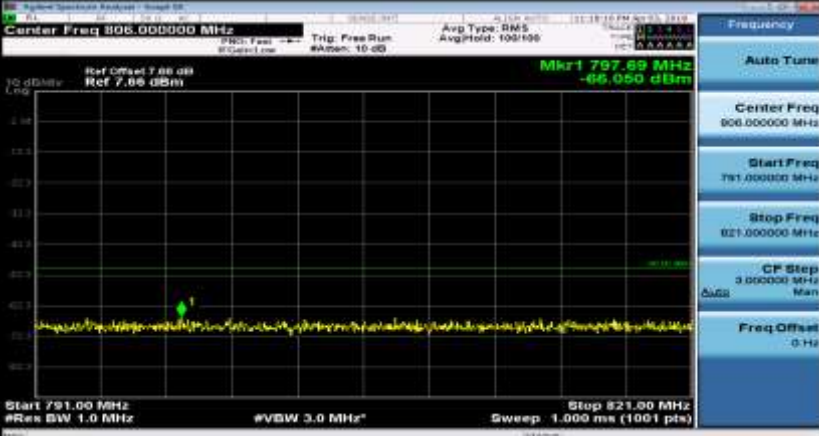
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
General	

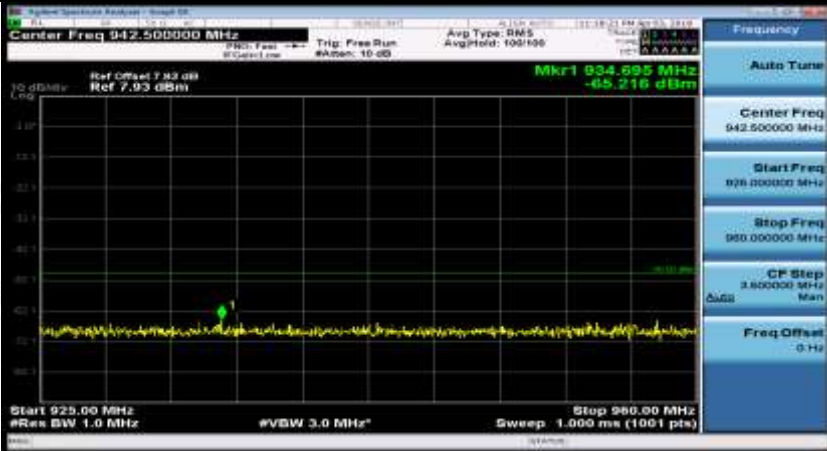
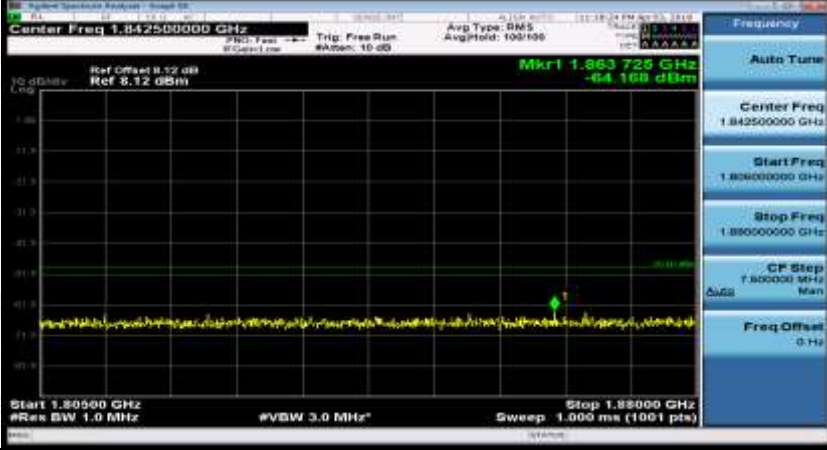
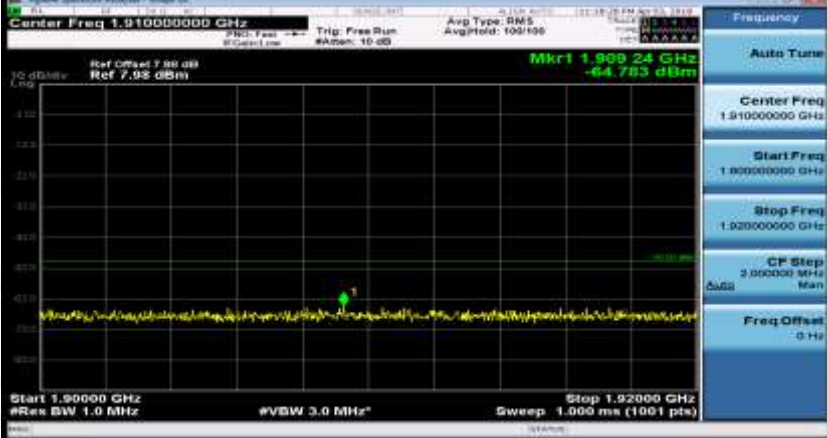
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General			
General			
General			

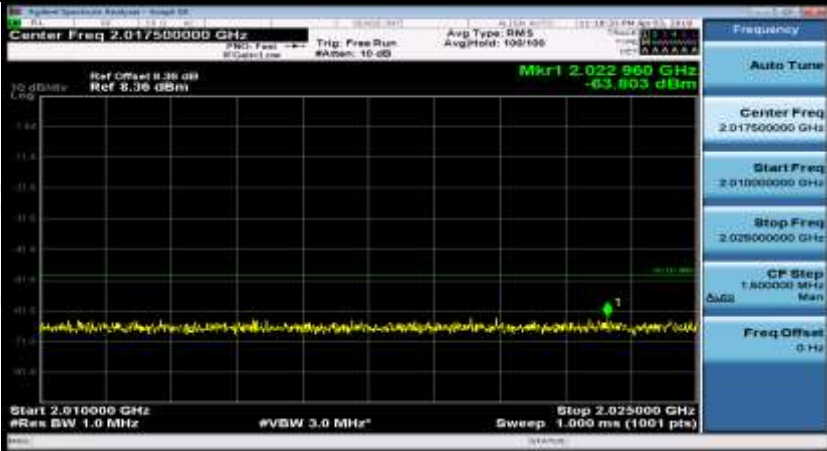
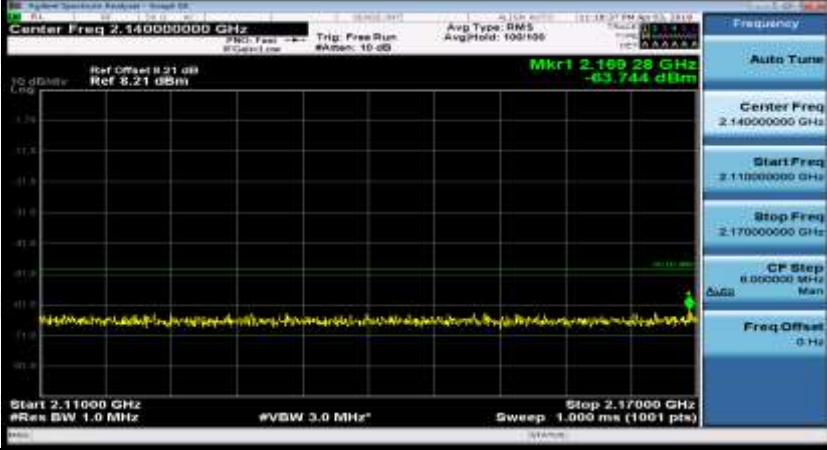
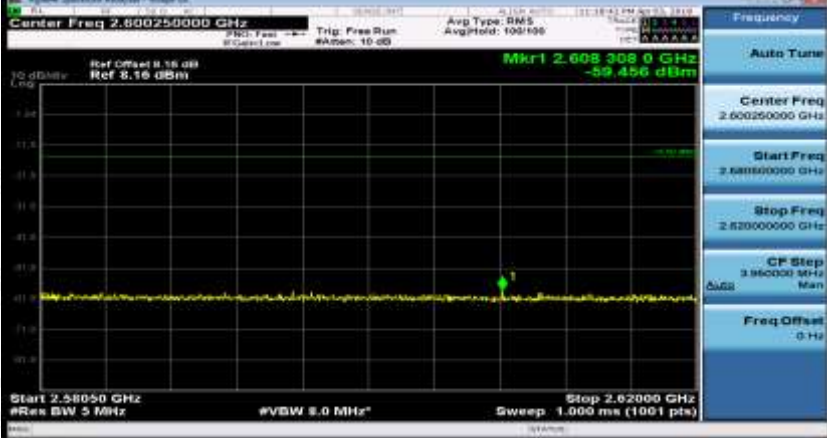
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General			
General			
Co-existence			

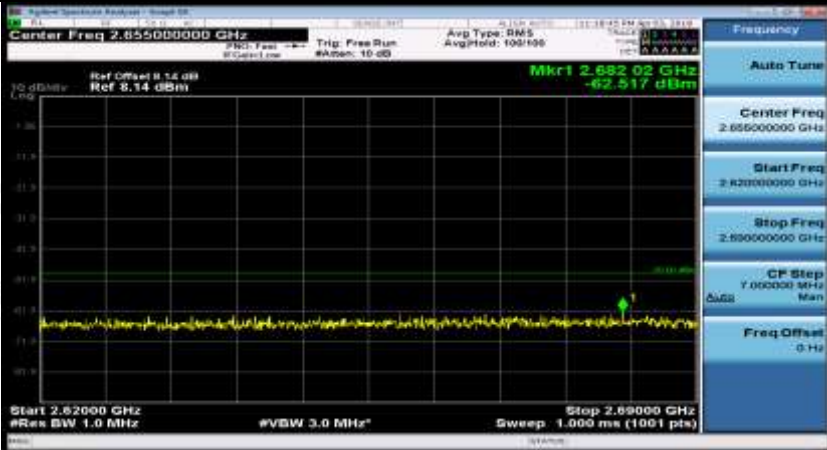

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Co-existence	
Co-existence	
Co-existence	

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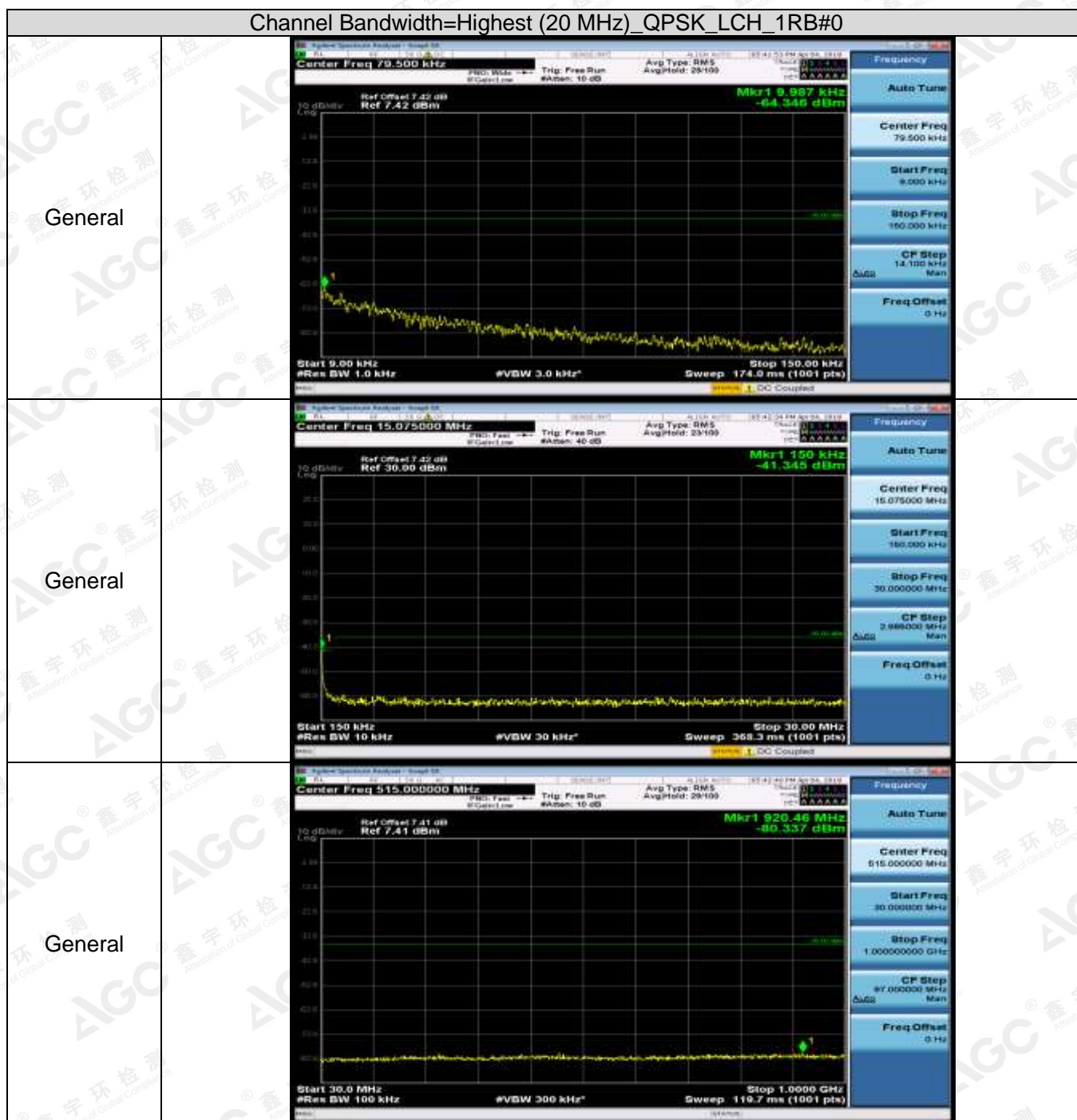
Co-existence	
Co-existence	
Co-existence	

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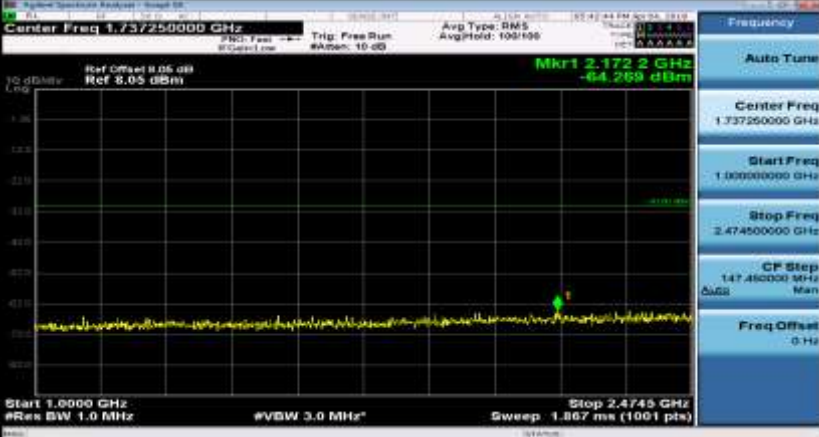


Co-existence	
Co-existence	
Co-existence	
Additional	NA

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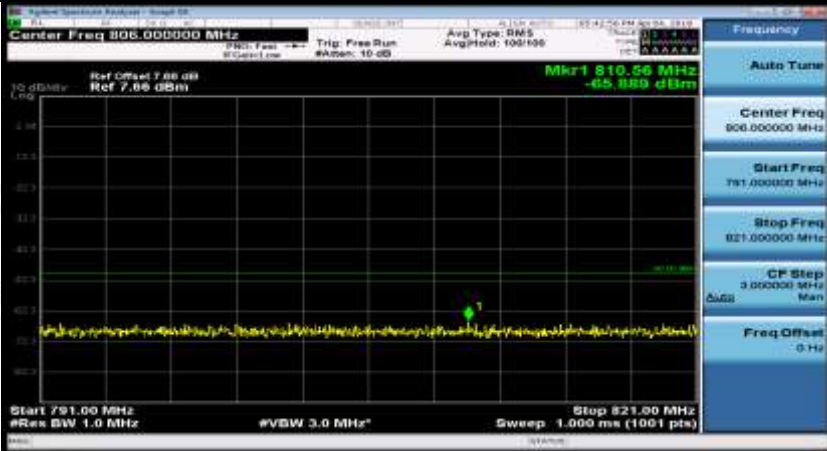
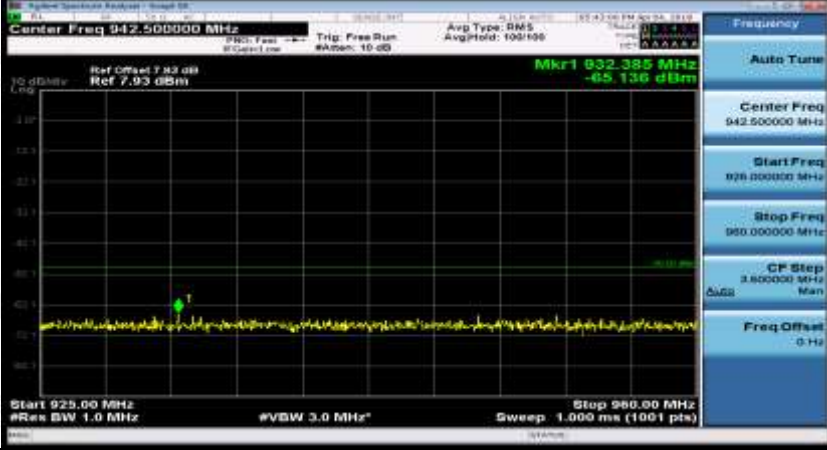
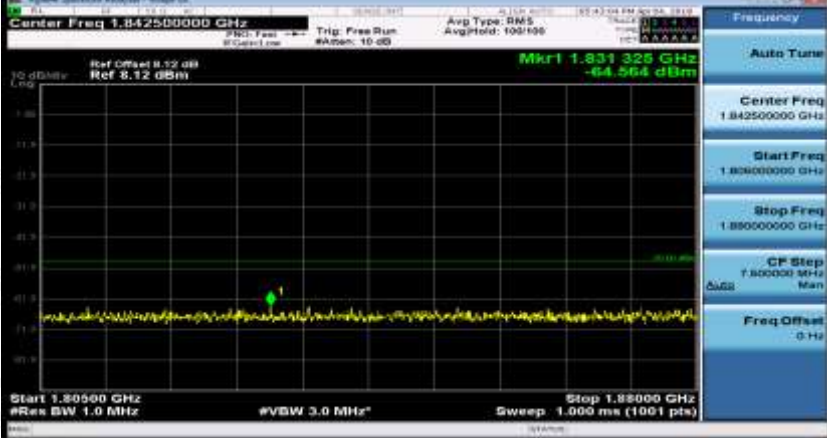
Channel Bandwidth= (20 MHz)



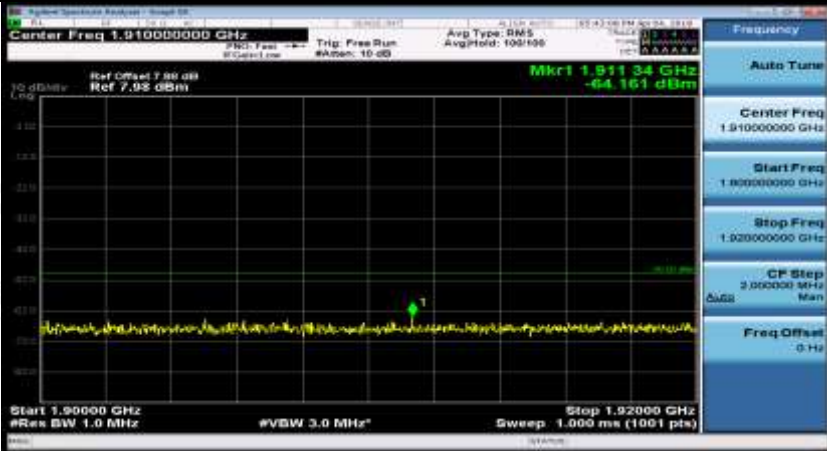
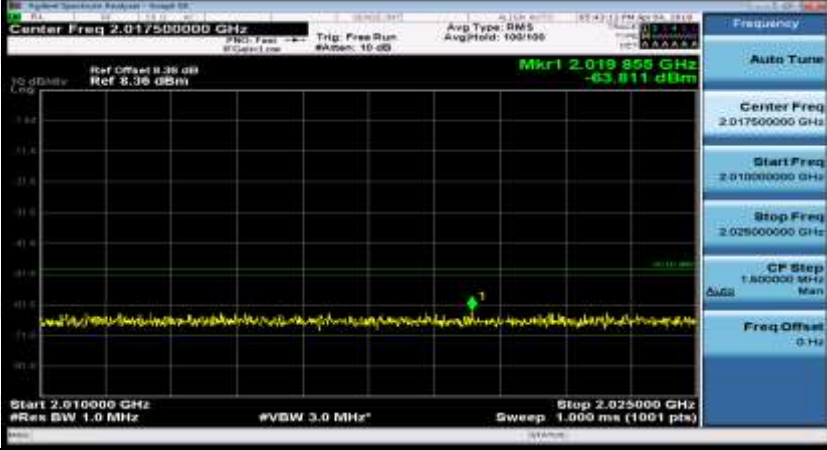
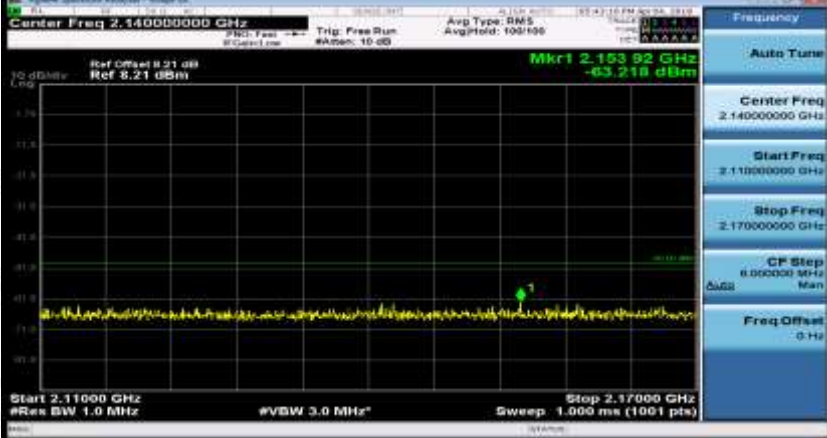
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General			
General			
General			

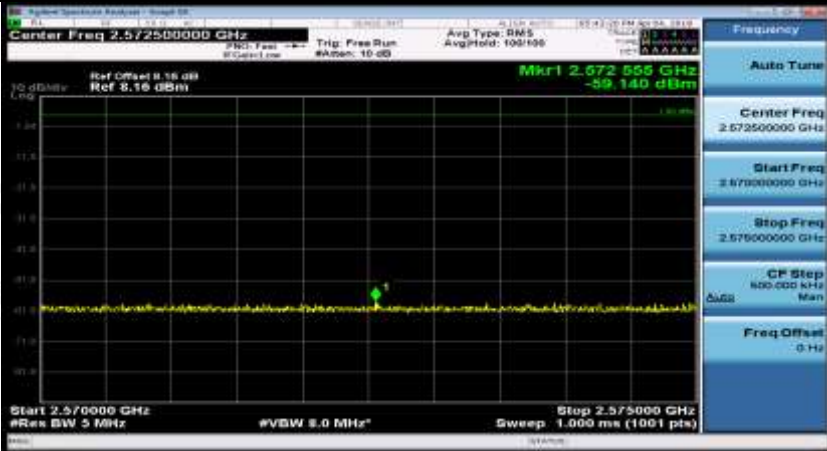
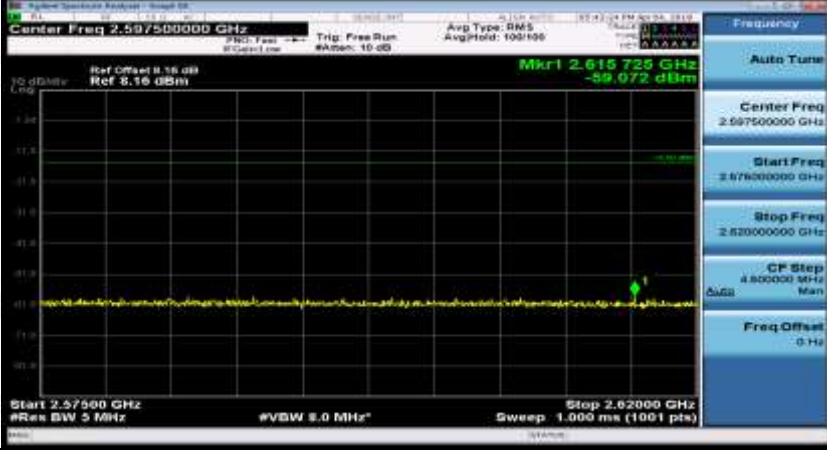
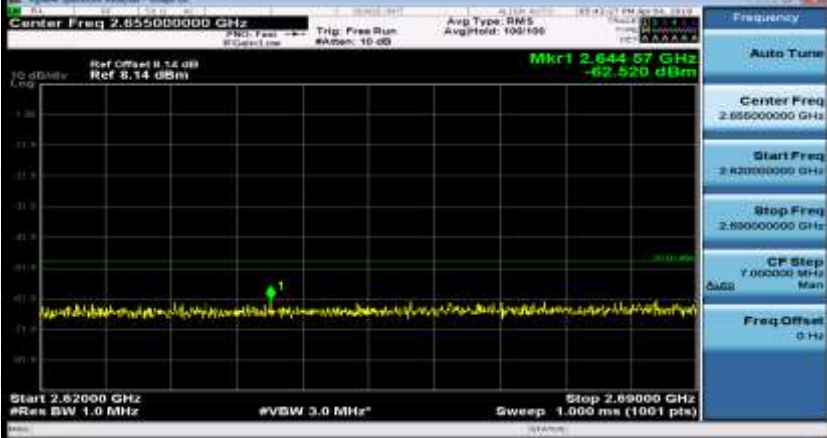
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Co-existence	
Co-existence	
Co-existence	

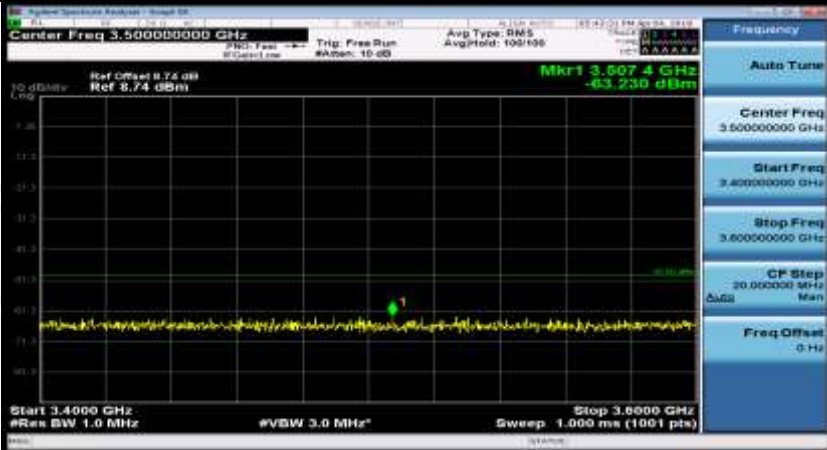
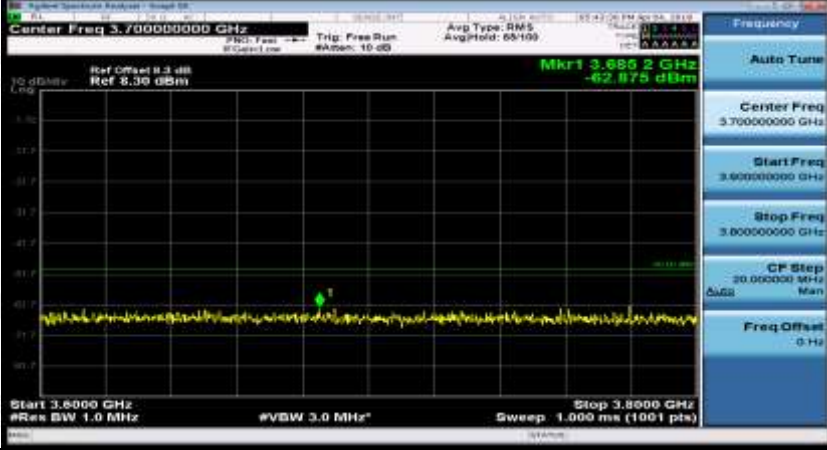
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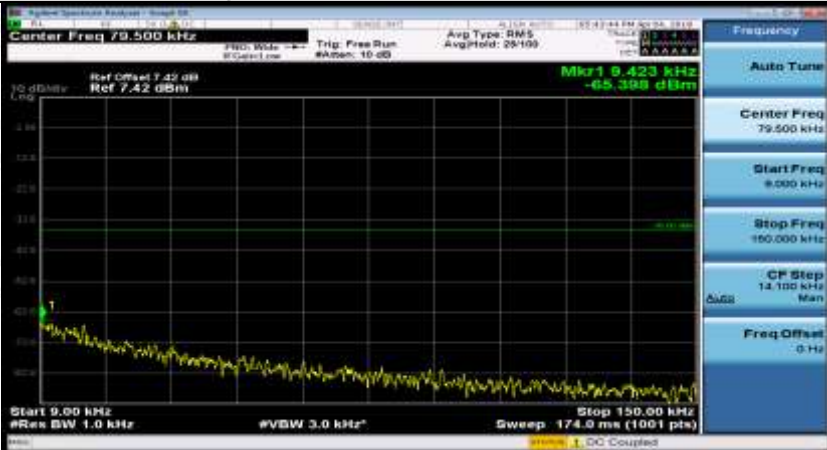
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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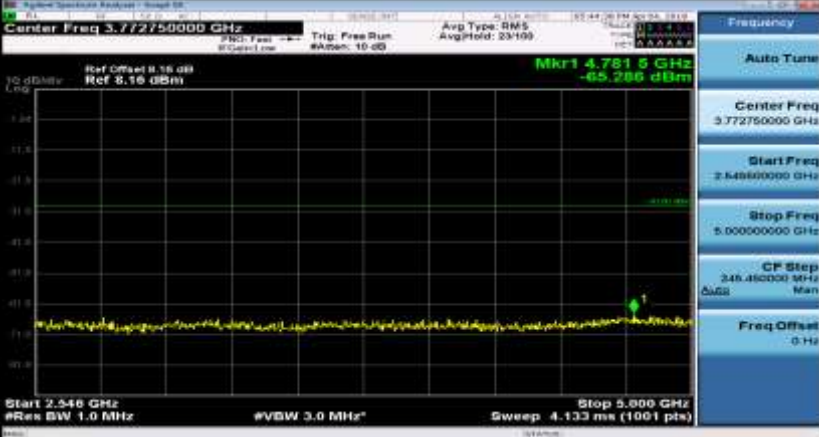

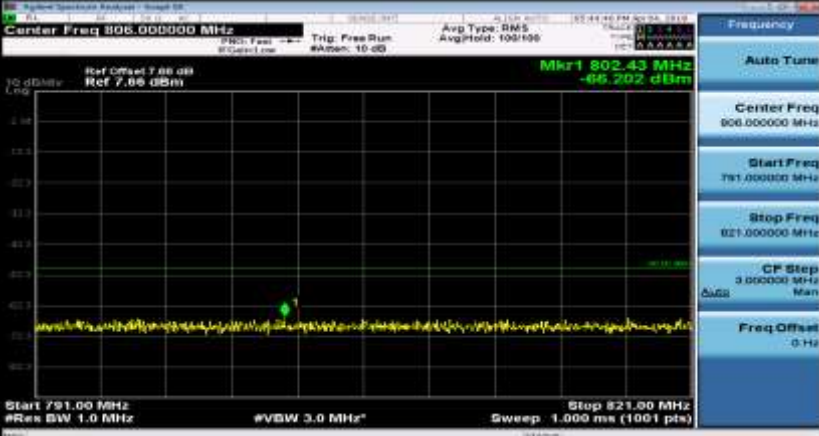
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20MHz)_QPSK_LCH_1RB#max	
General	

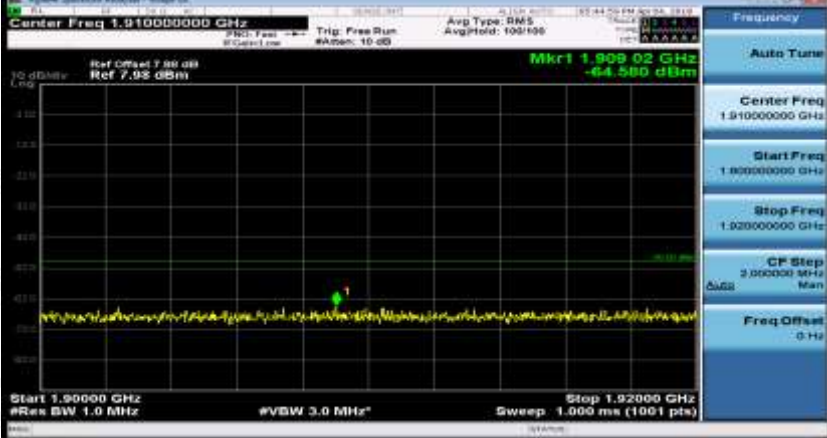
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General			
General			
General			

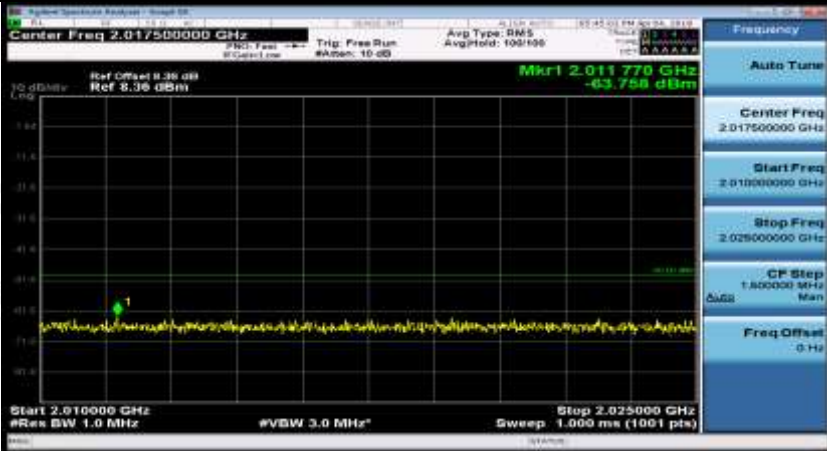
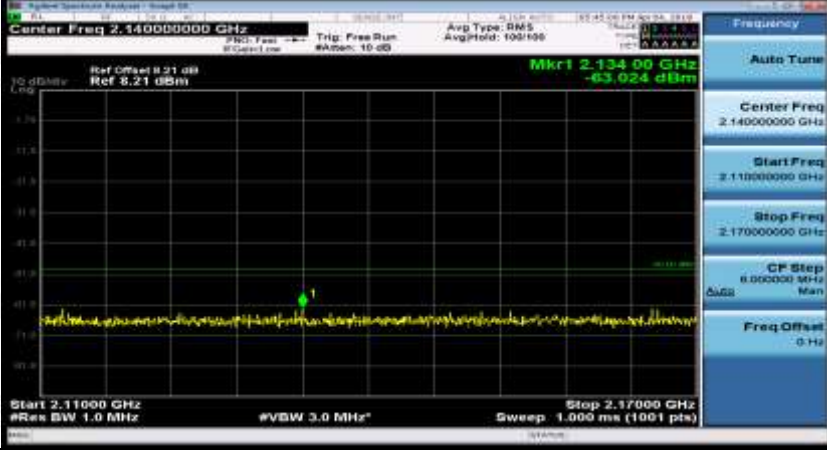
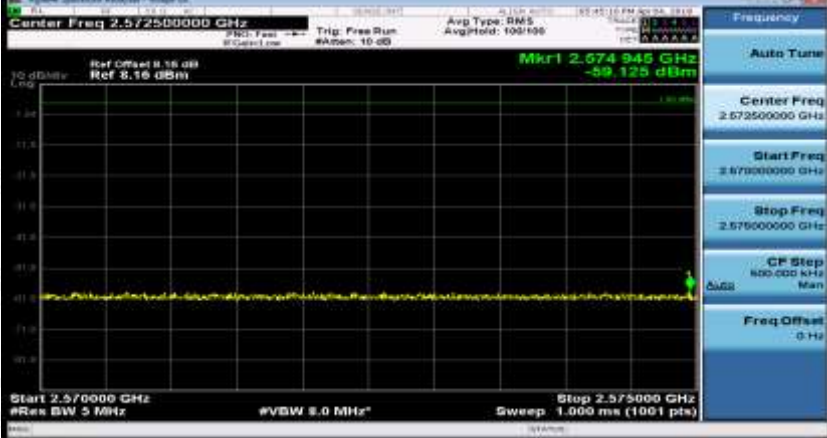
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General			
General			
Co-existence			

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Co-existence	
Co-existence	
Co-existence	

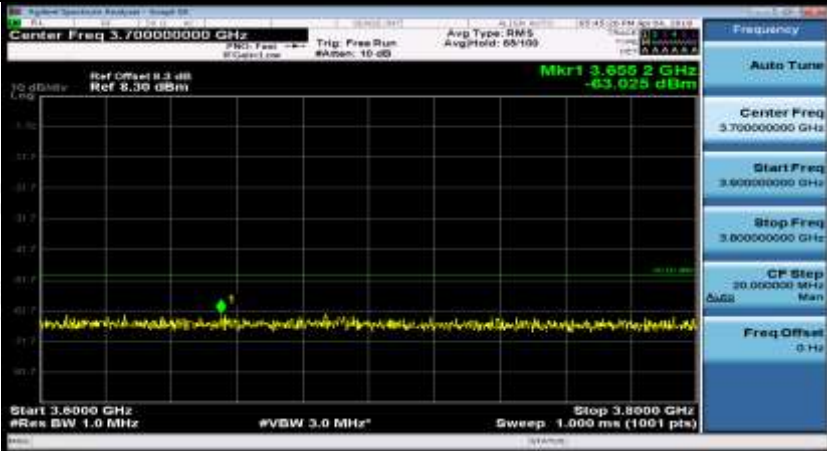
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Co-existence	
Co-existence	
Co-existence	

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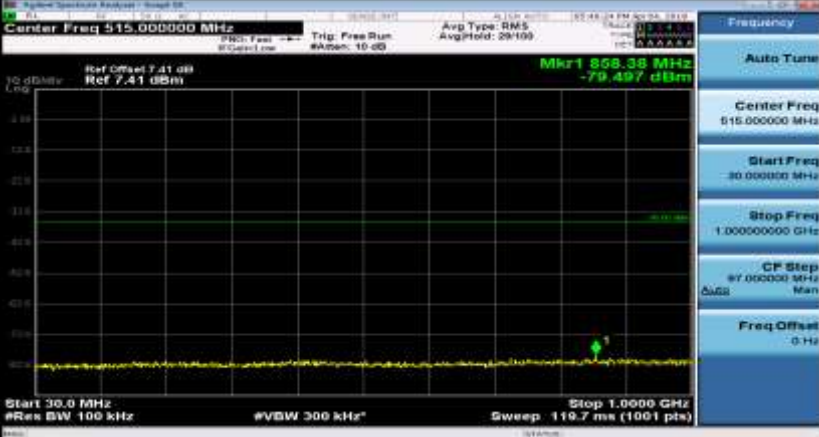
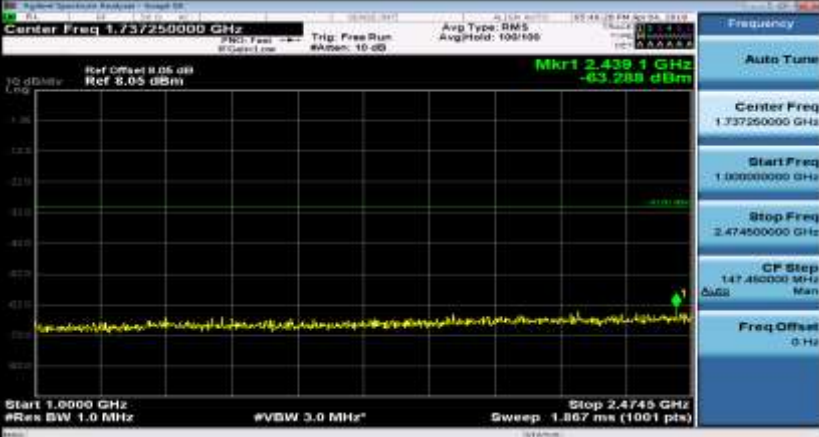
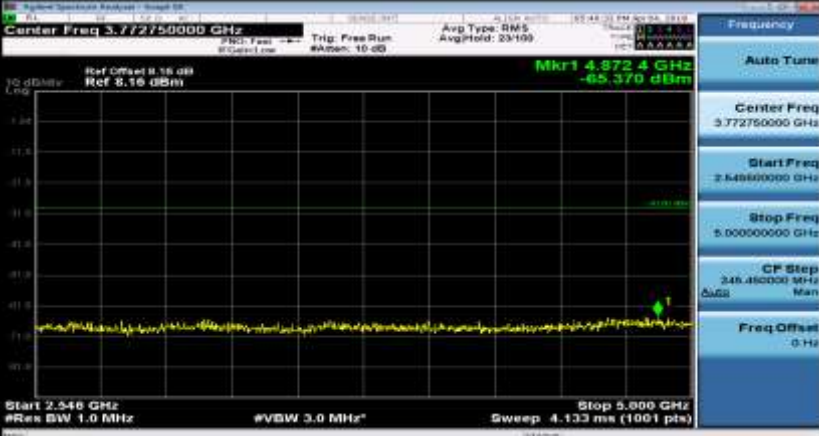
Co-existence	
Co-existence	
Co-existence	

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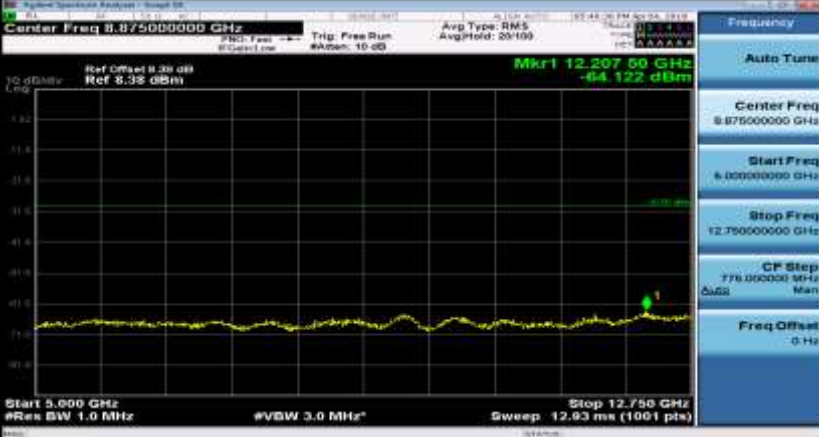
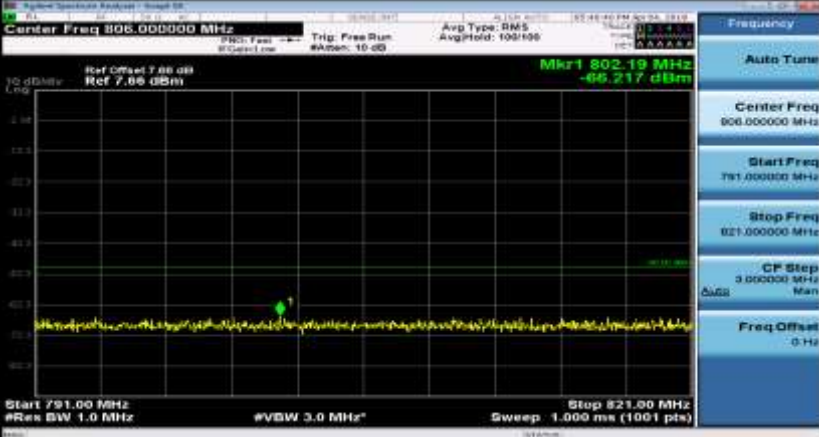
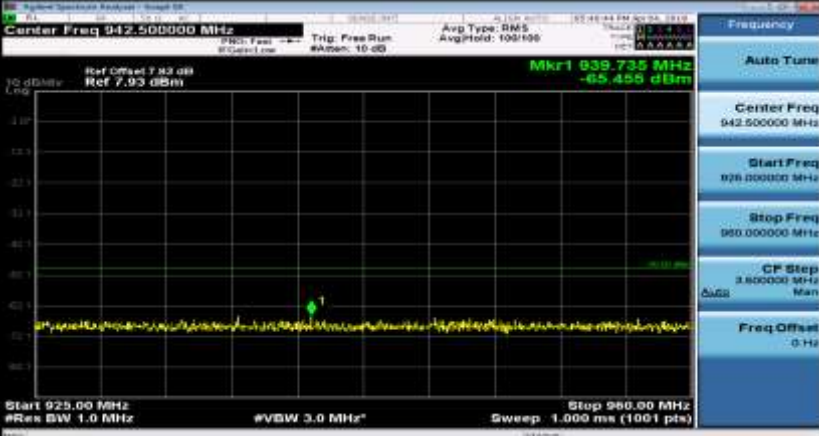
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_FullRB#0	
General	
General	

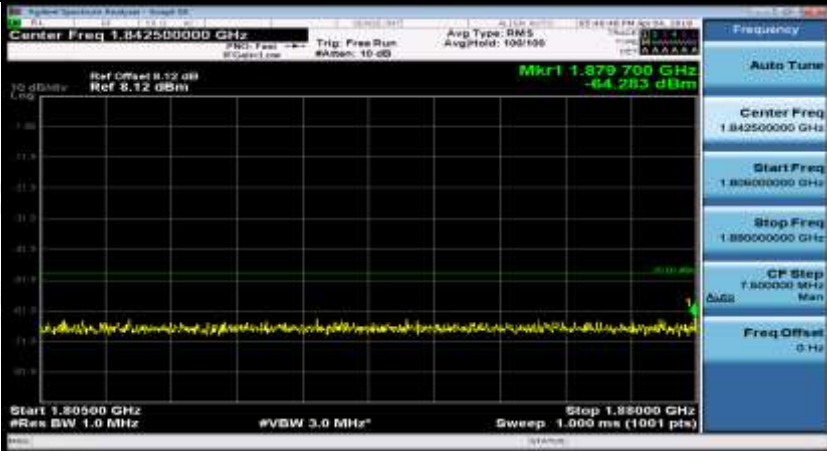
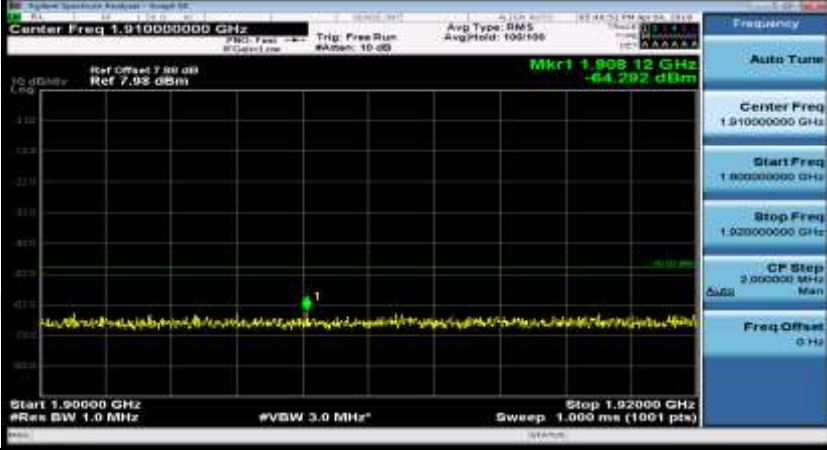
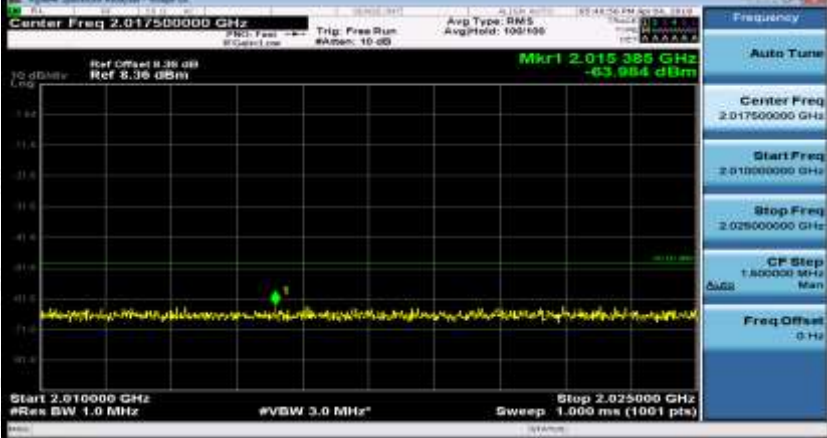
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General			
General			
General			

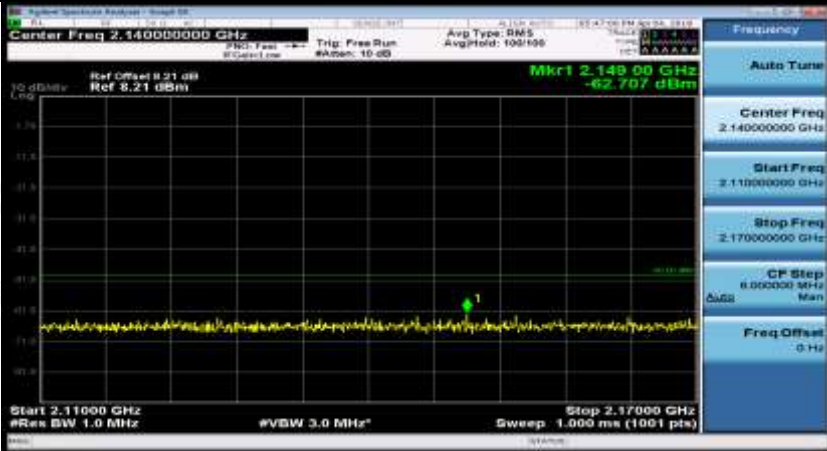
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General			
Co-existence			
Co-existence			

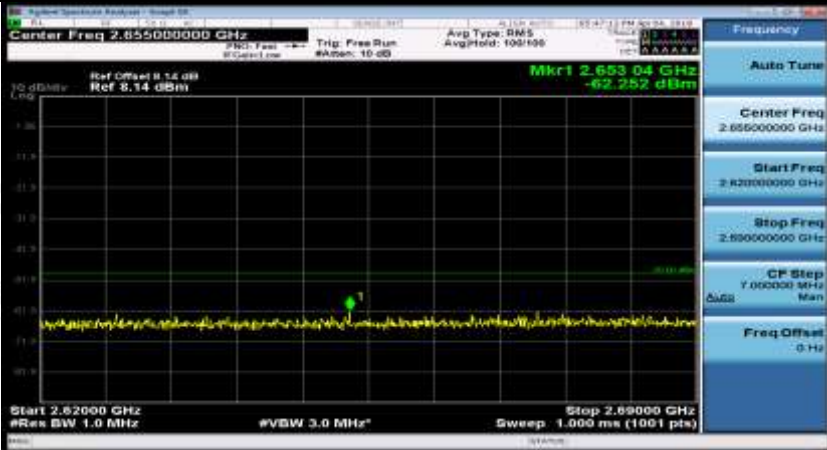
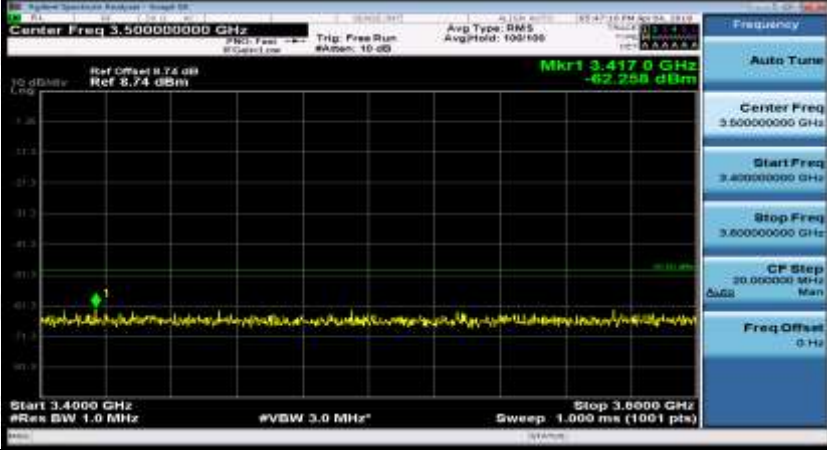
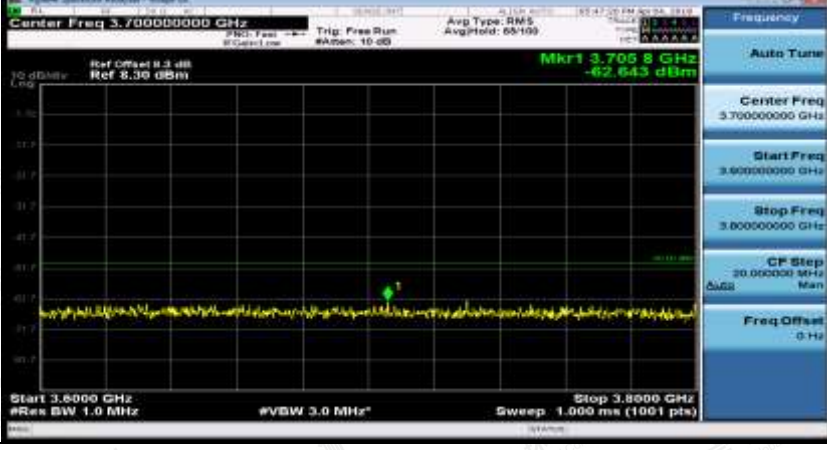
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Co-existence	
Co-existence	
Co-existence	

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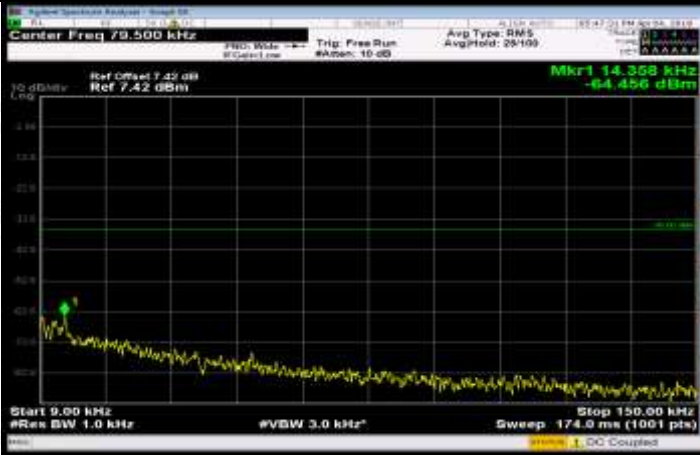
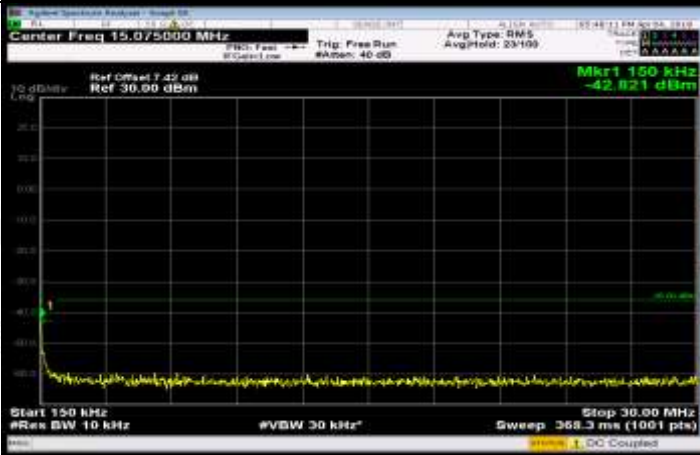
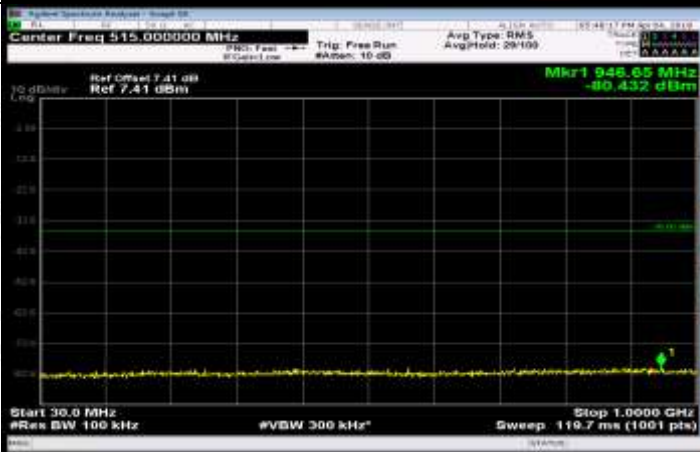
Co-existence	
Co-existence	
Co-existence	

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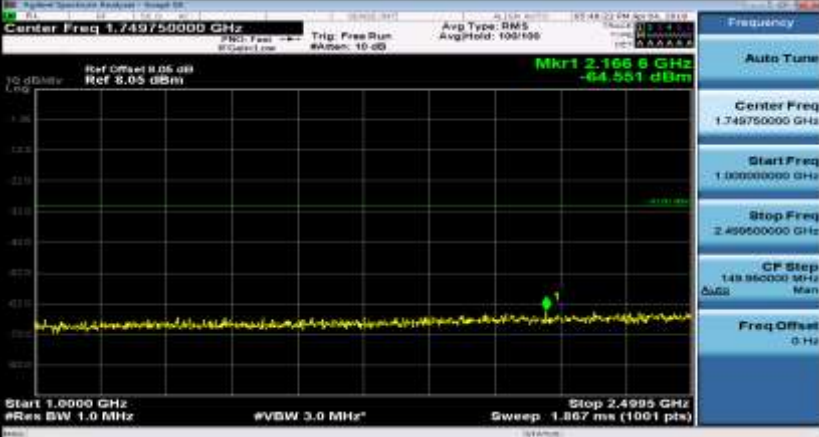
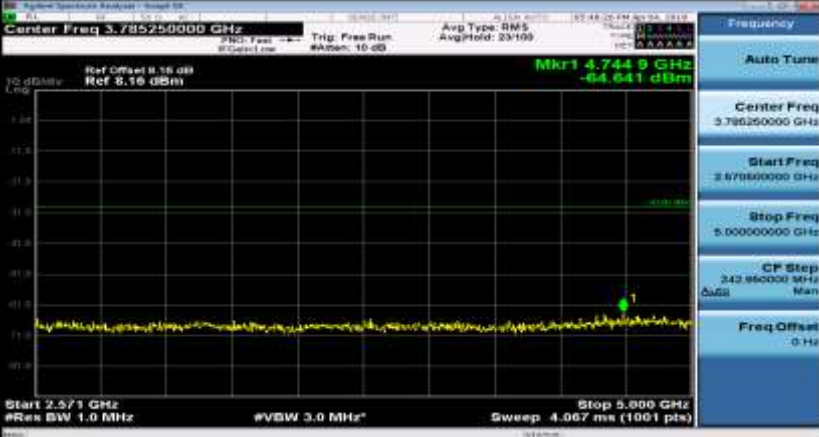

Co-existence	
Co-existence	
Co-existence	
Additional	NA

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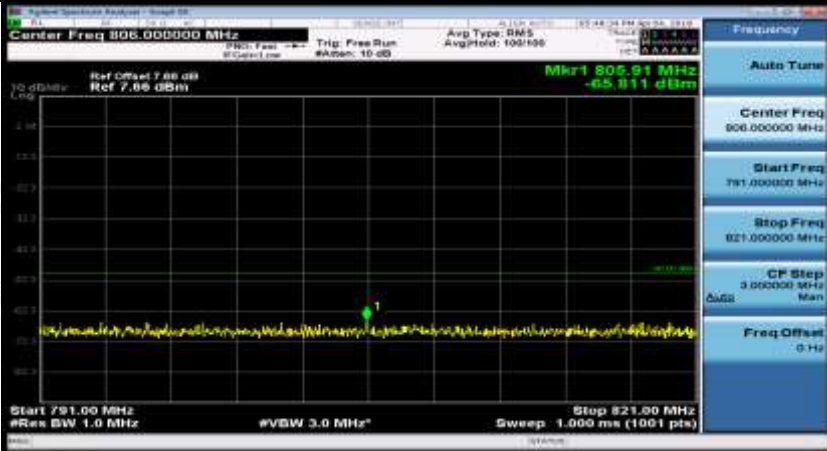
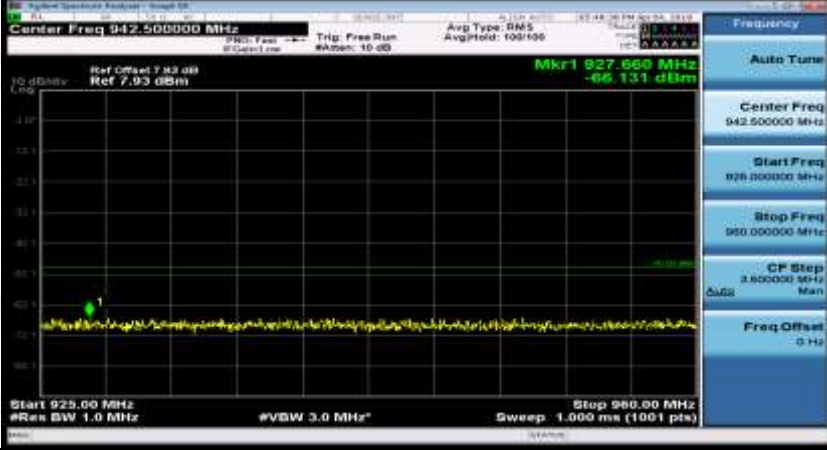
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#0

General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 79.500 kHz</p> <p>Start Freq 8.000 kHz</p> <p>Stop Freq 150.000 kHz</p> <p>CF Step 14.100 kHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 15.075000 MHz</p> <p>Start Freq 180.000 kHz</p> <p>Stop Freq 30.000000 MHz</p> <p>CF Step 3.986000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 915.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.00000000 GHz</p> <p>CF Step 87.000000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>


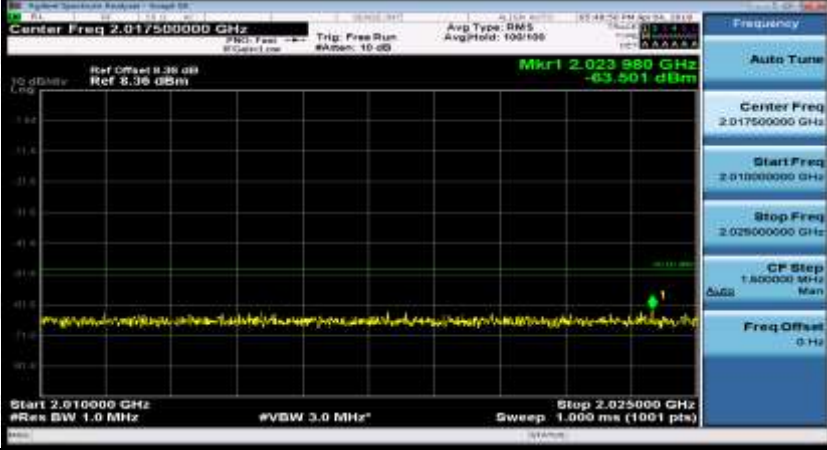
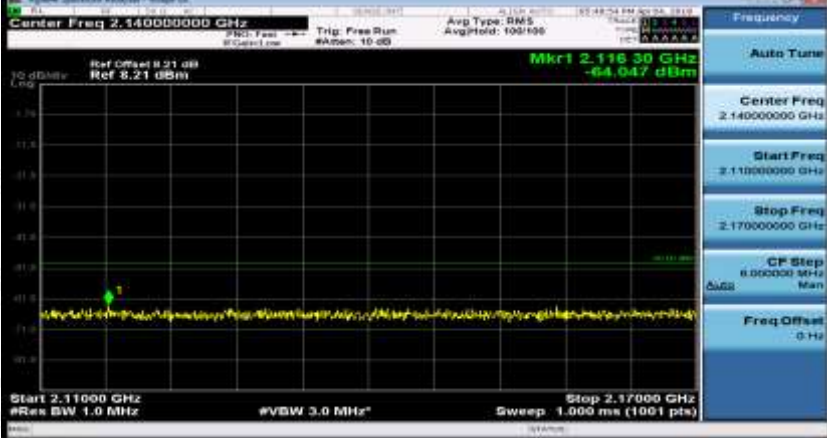
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General			
General			
General			


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Co-existence	
Co-existence	
Co-existence	


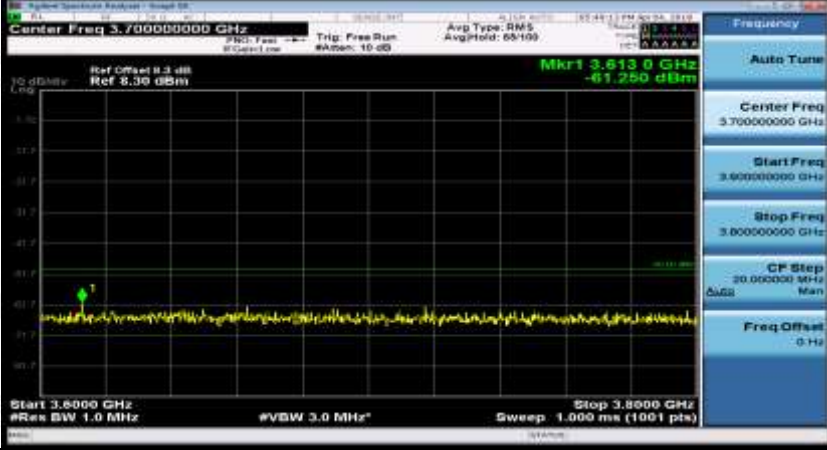
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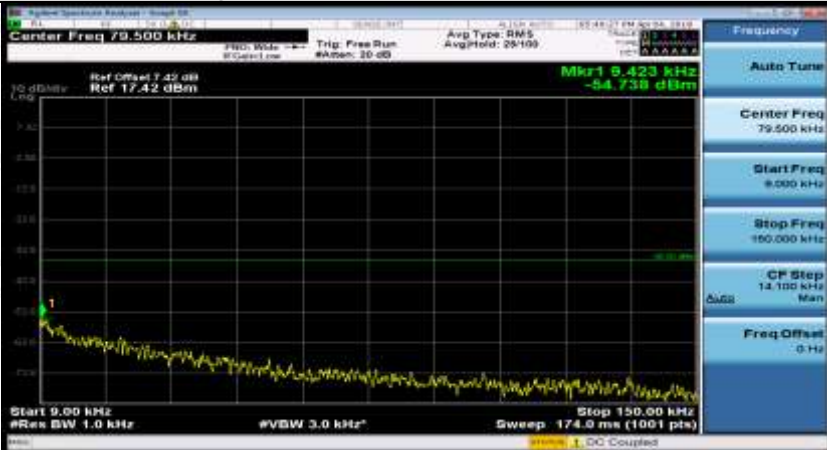
Co-existence	
Co-existence	
Co-existence	

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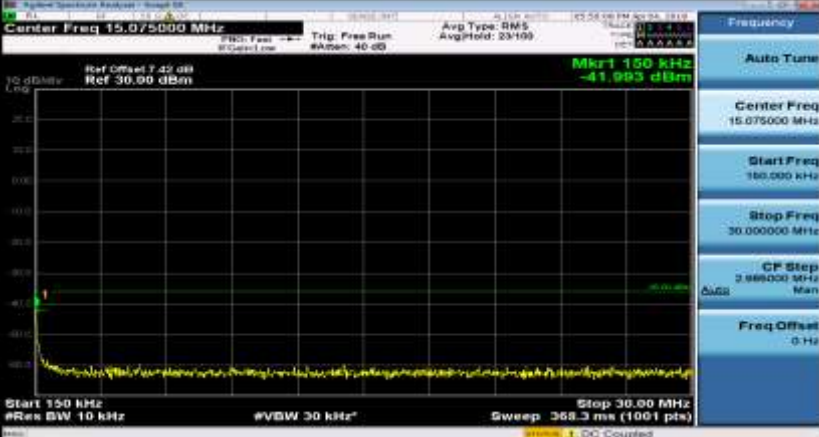
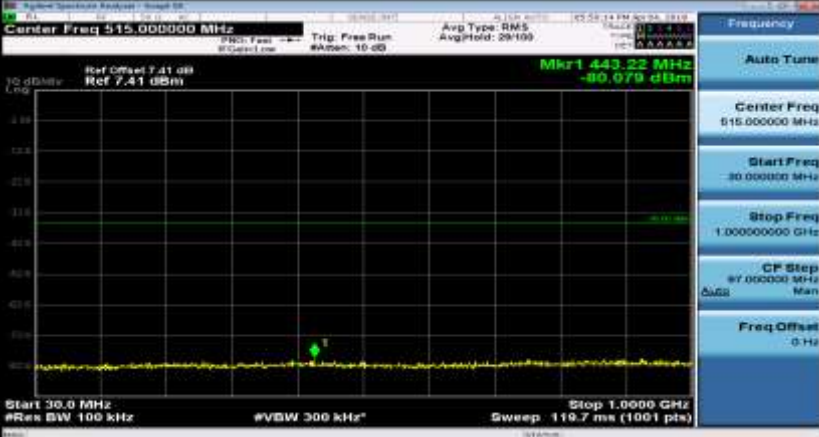

Co-existence	
Co-existence	
Co-existence	

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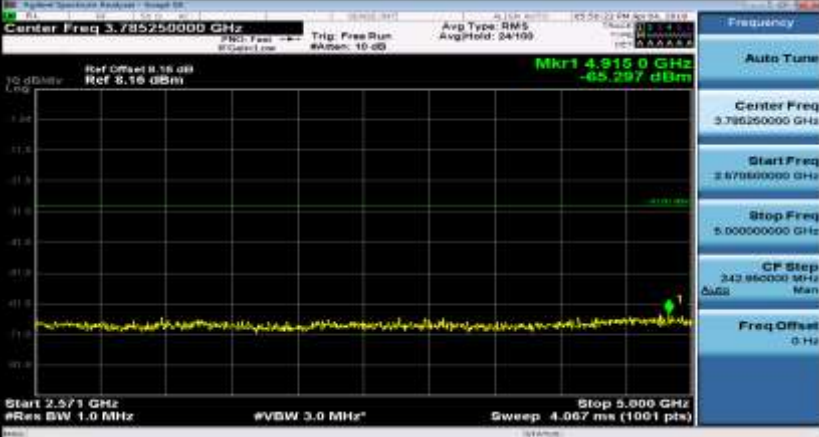
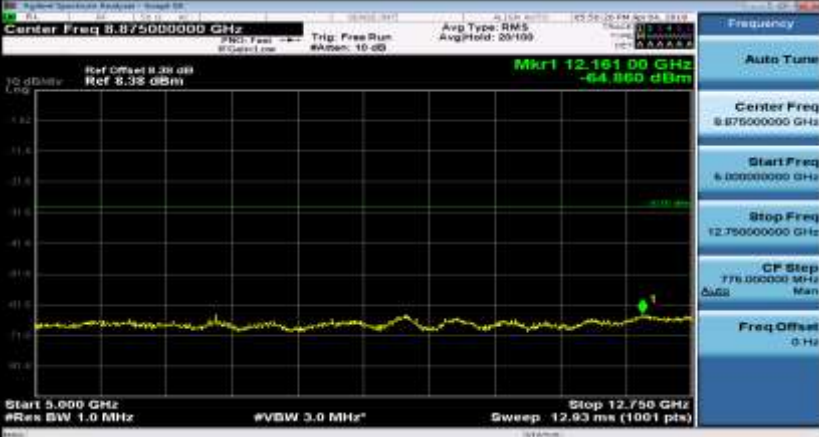
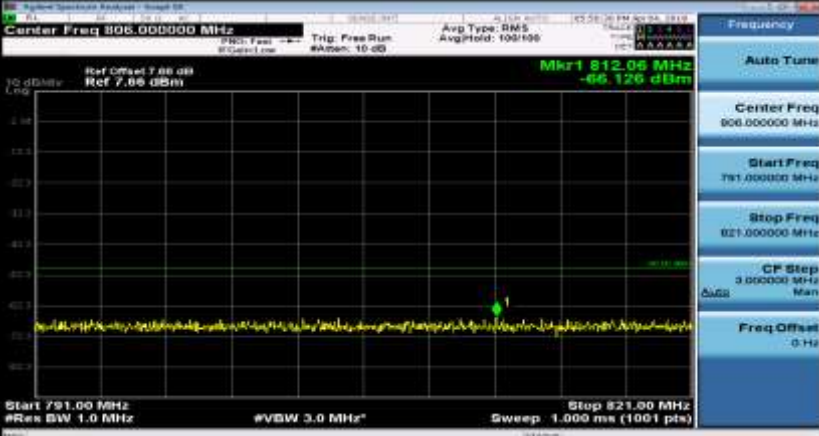
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#max	
General	

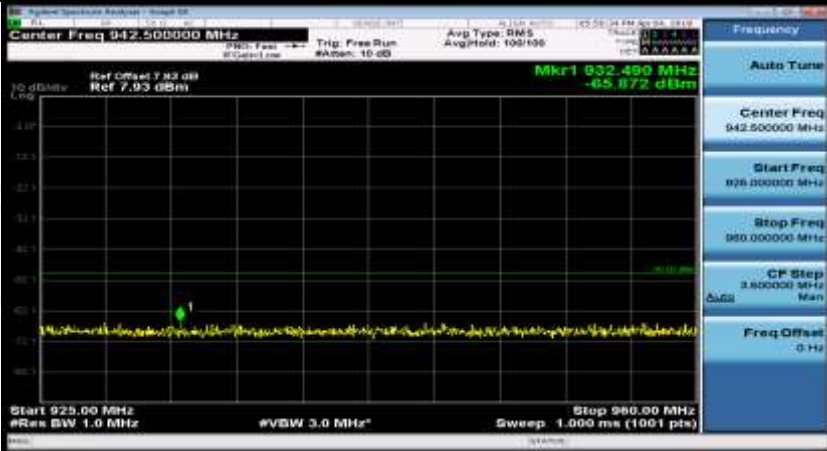
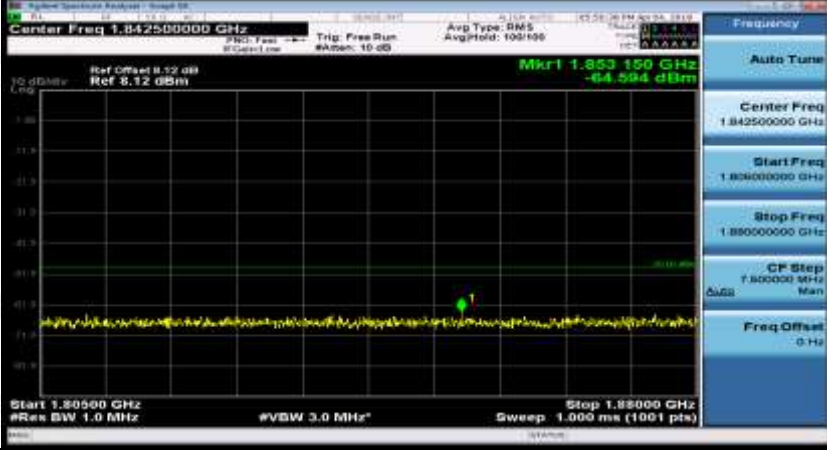
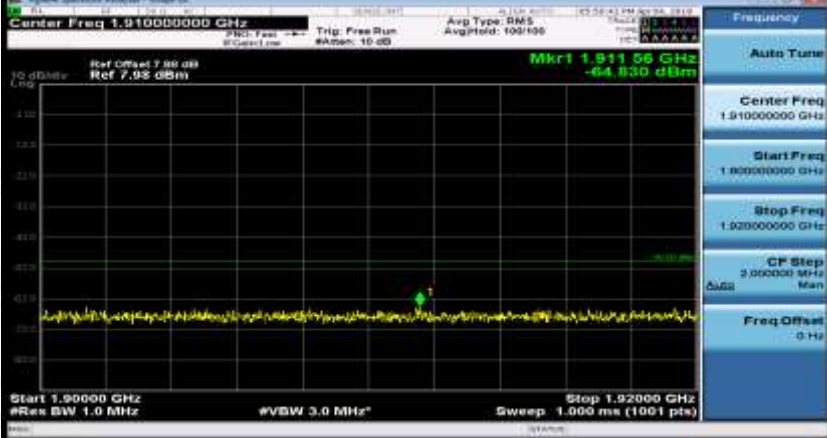
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General			
General			
General			

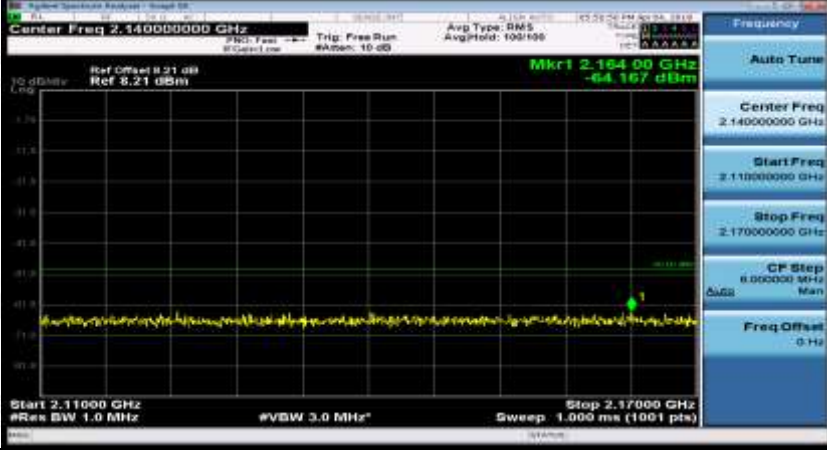
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General			
General			
Co-existence			

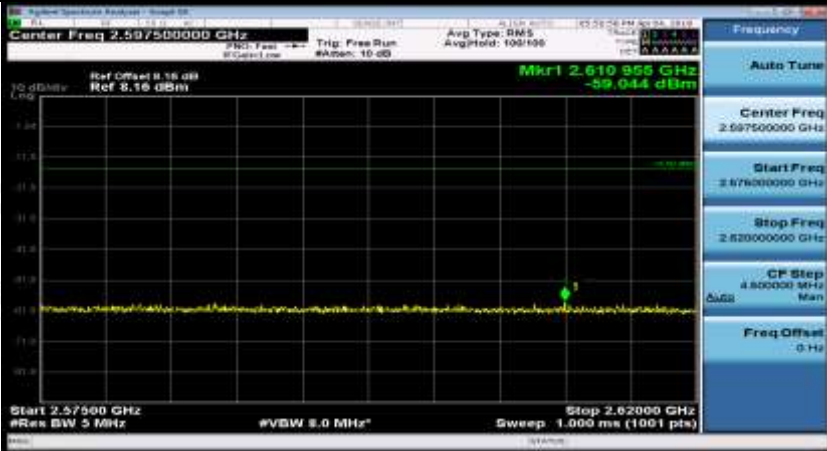
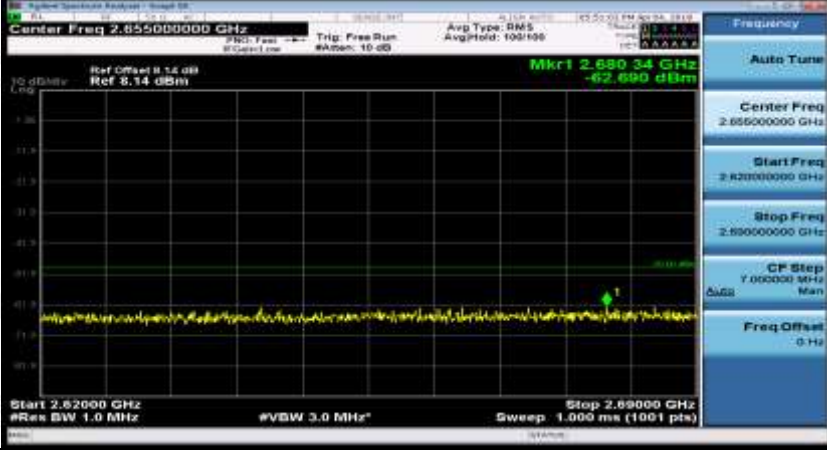
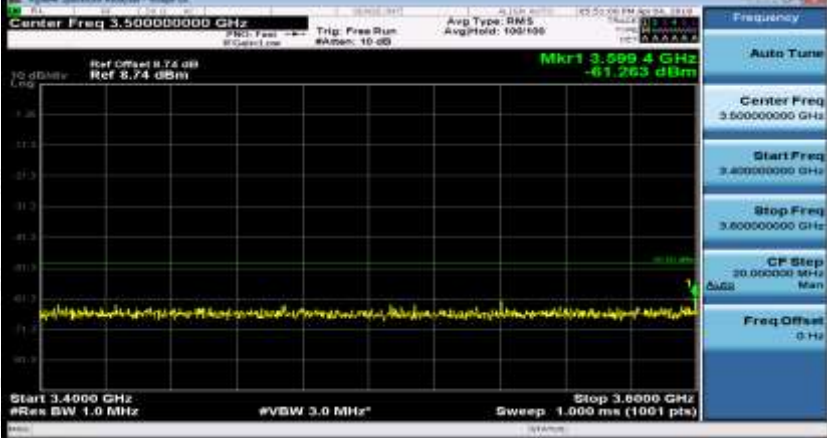
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Co-existence	
Co-existence	
Co-existence	


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Co-existence	
Co-existence	
Co-existence	

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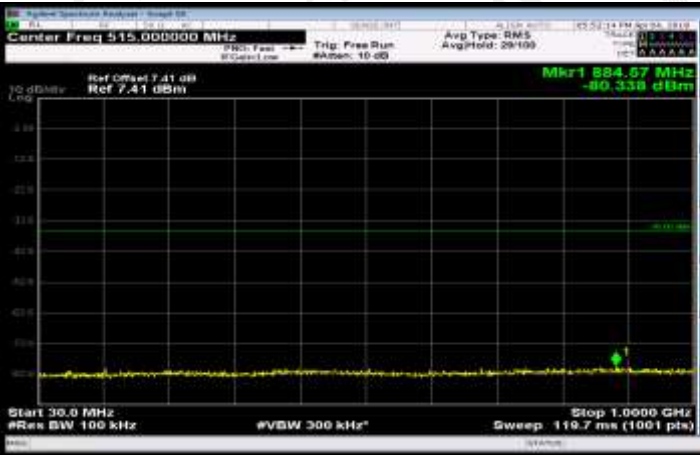
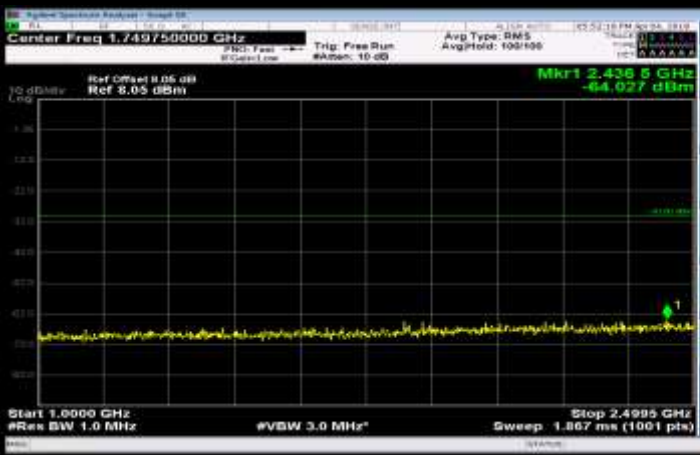
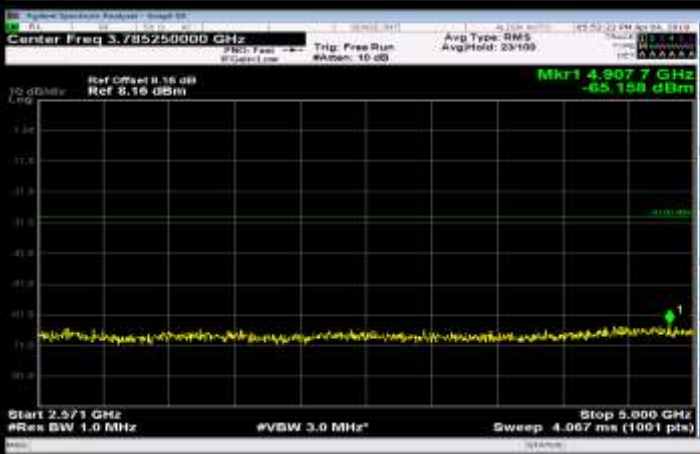
Co-existence	
Co-existence	
Co-existence	

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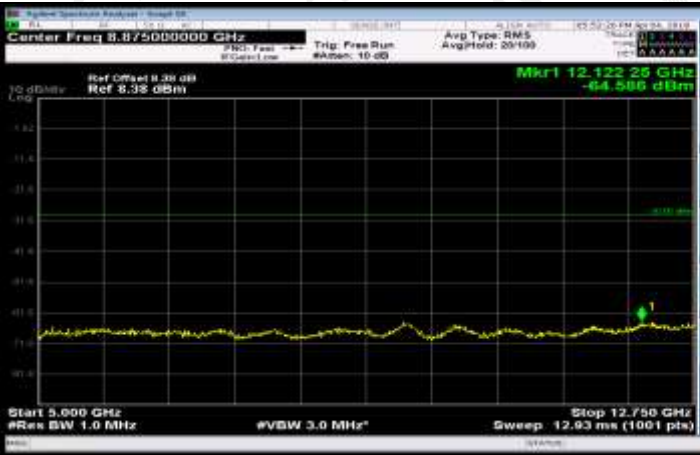
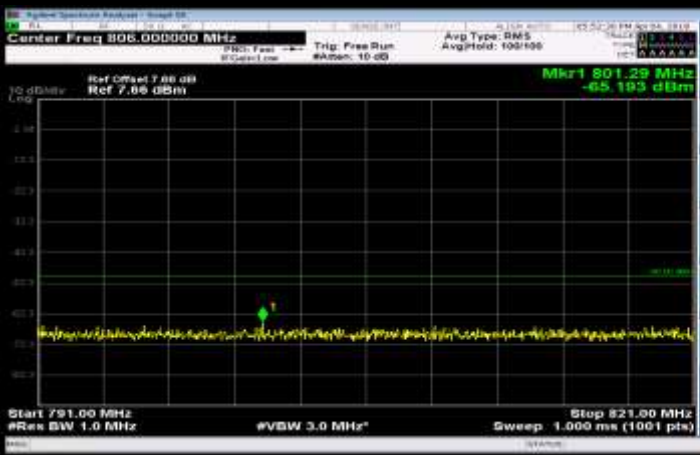
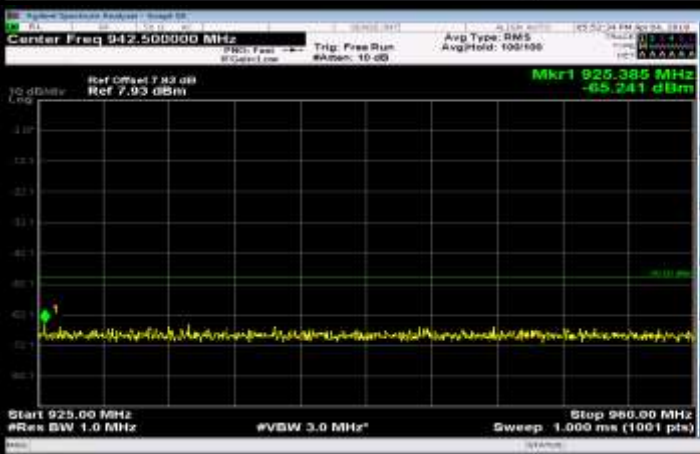
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_FullRB#0	
General	
General	

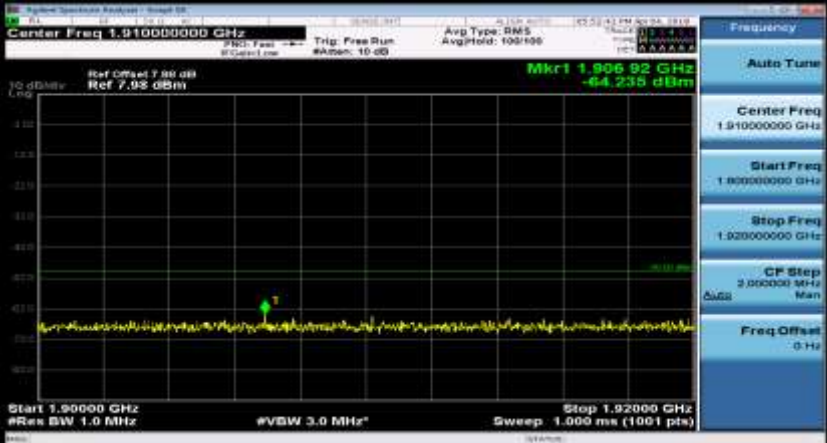
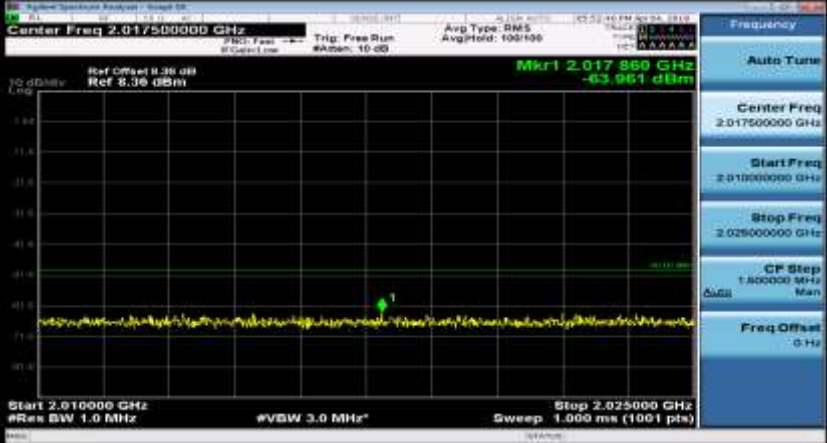
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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.00000000 GHz</p> <p>CF Step 87.000000 MHz Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 1.74975000 GHz</p> <p>Start Freq 1.00000000 GHz</p> <p>Stop Freq 2.45000000 GHz</p> <p>CF Step 149.960000 MHz Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.78525000 GHz</p> <p>Start Freq 3.67850000 GHz</p> <p>Stop Freq 5.00000000 GHz</p> <p>CF Step 242.960000 MHz Man</p> <p>Freq Offset 0 Hz</p>

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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 5.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 776.000000 MHz Man</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 806.000000 MHz</p> <p>Start Freq 791.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz Man</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 942.500000 MHz</p> <p>Start Freq 925.000000 MHz</p> <p>Stop Freq 960.000000 MHz</p> <p>CF Step 3.000000 MHz Man</p> <p>Freq Offset 0 Hz</p>

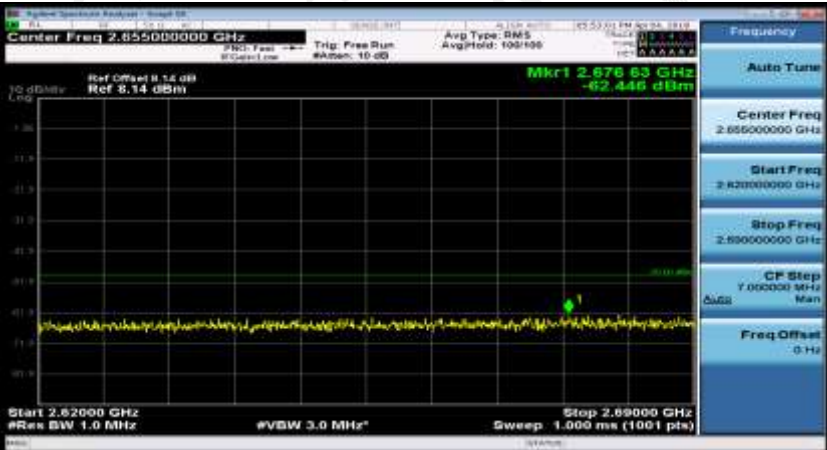
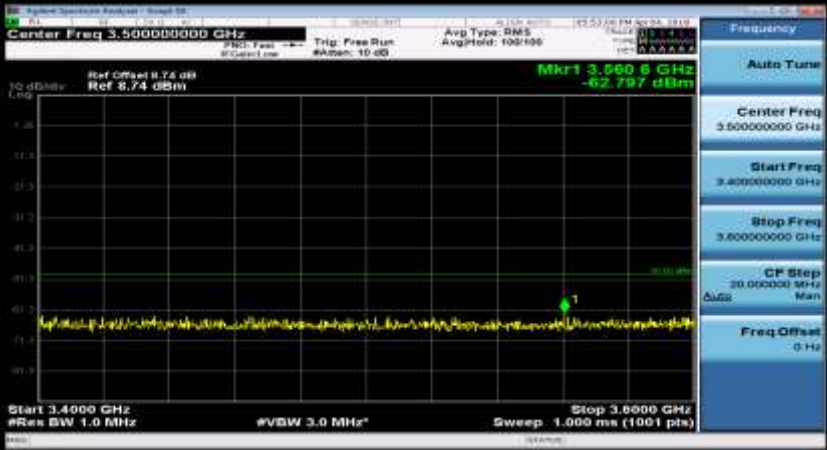
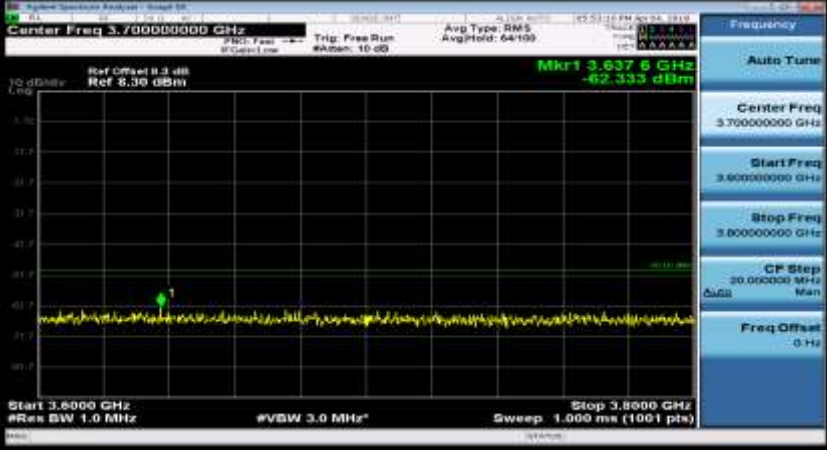
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Co-existence	
Co-existence	
Co-existence	

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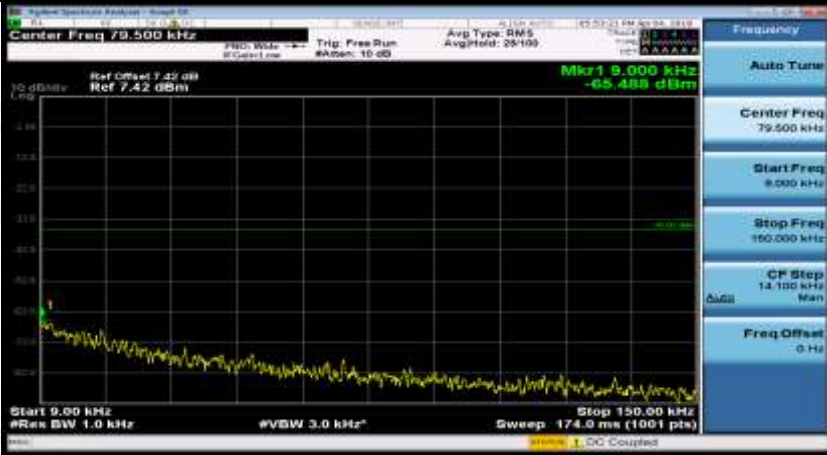
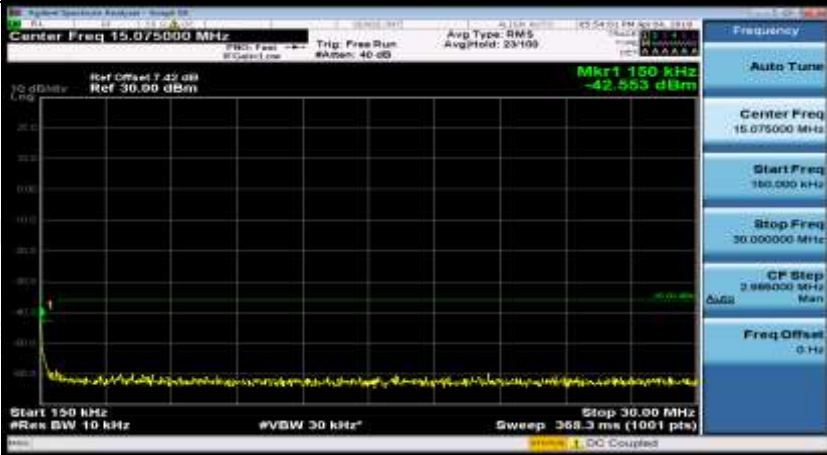
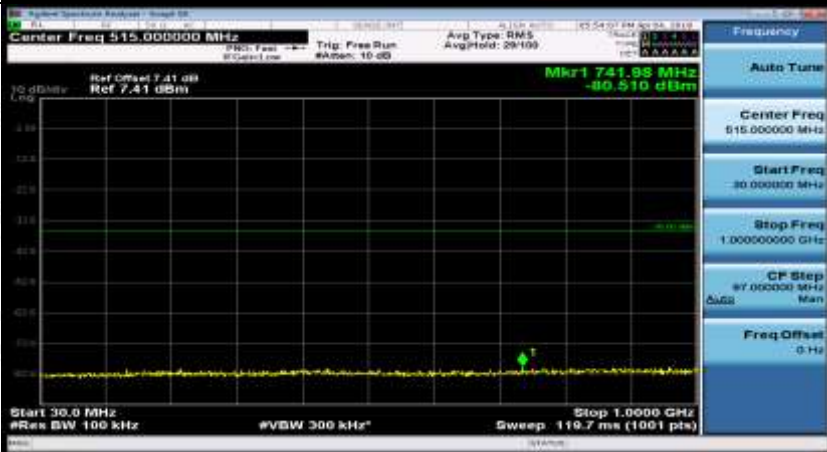
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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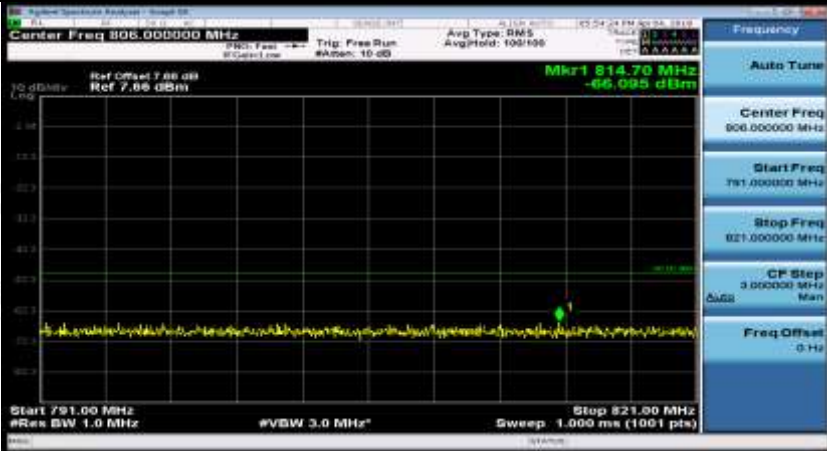
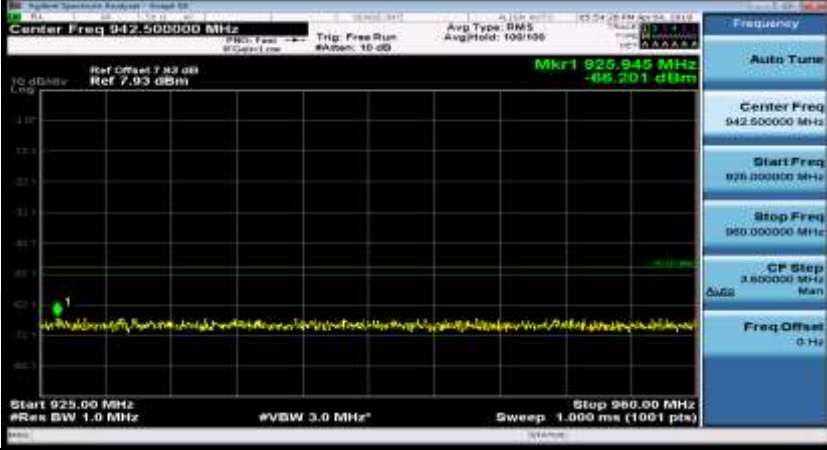
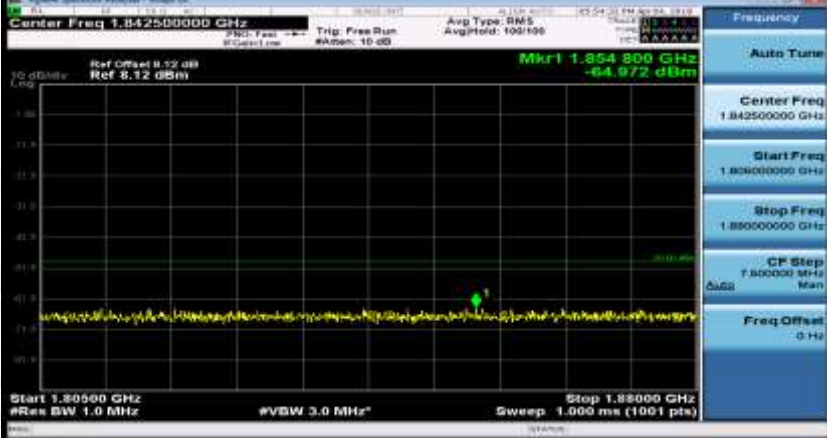
Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#0

General	
General	
General	

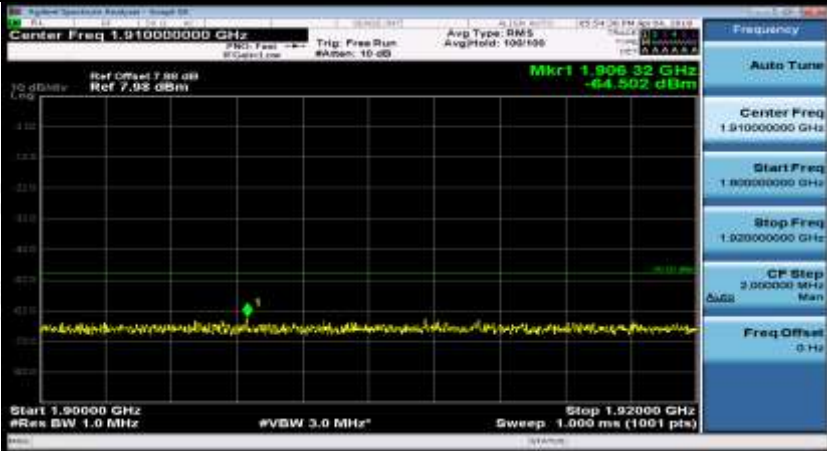
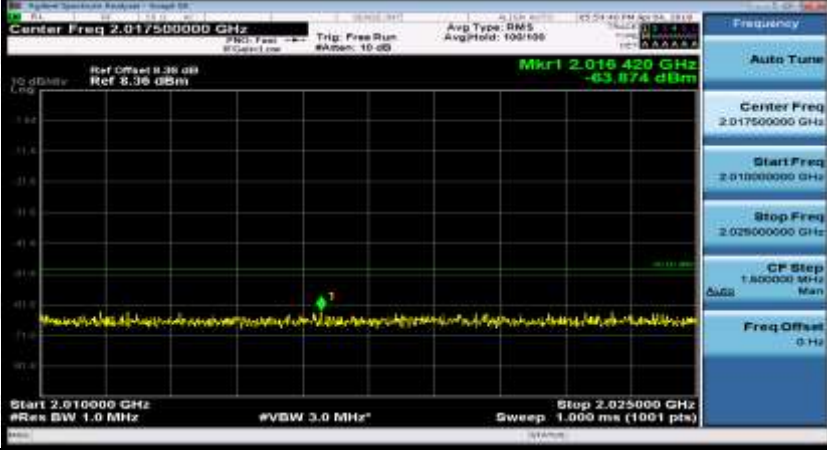
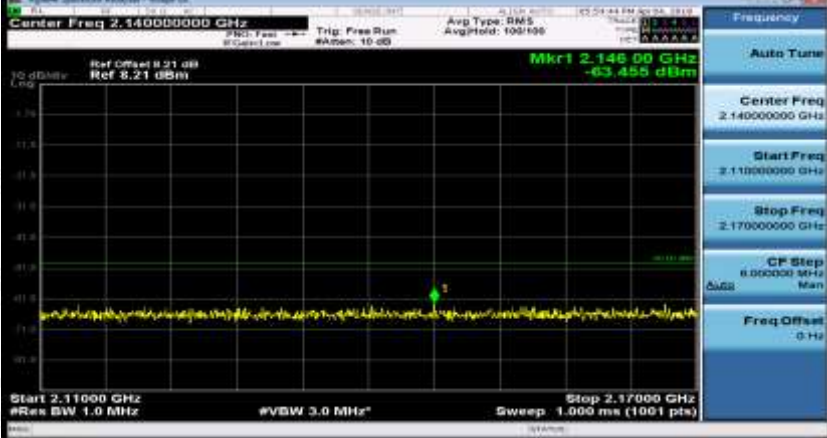
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General			
General			
General			

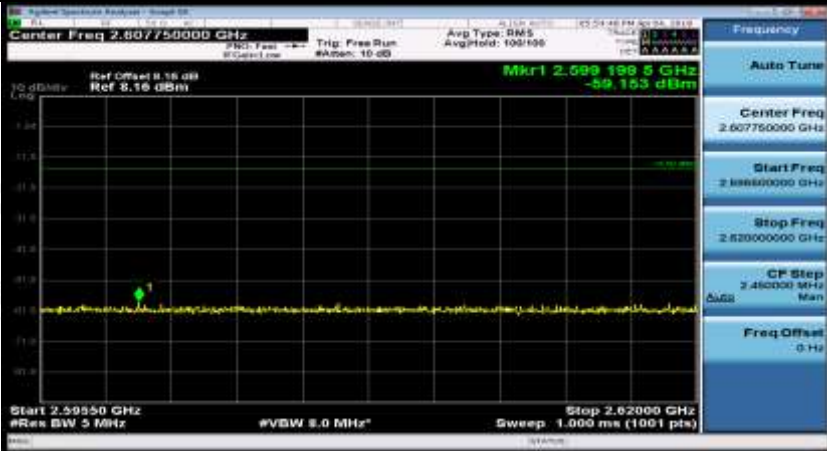

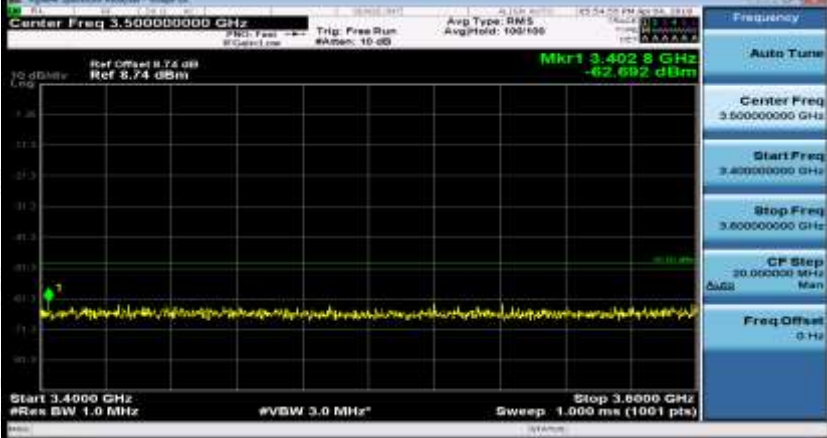
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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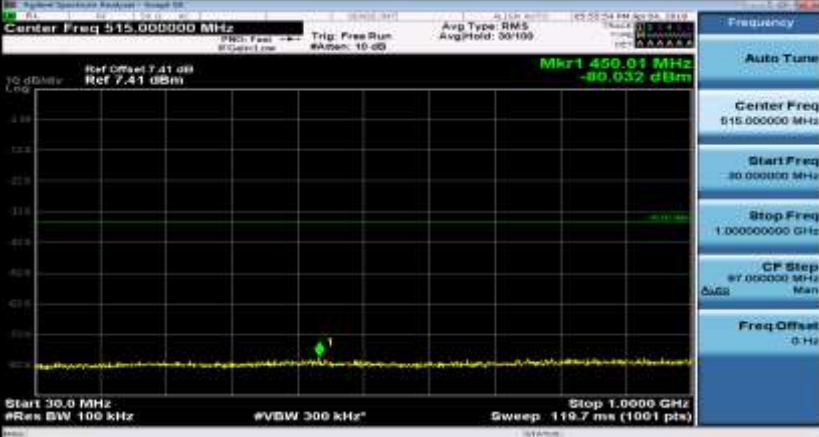
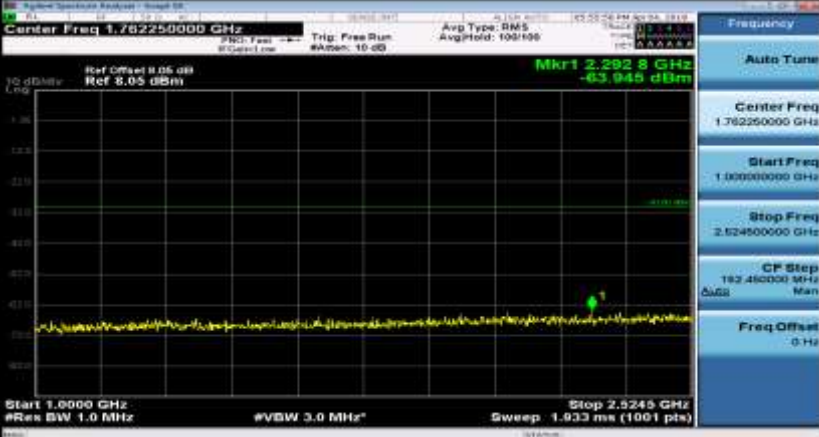

Co-existence	
Co-existence	
Co-existence	

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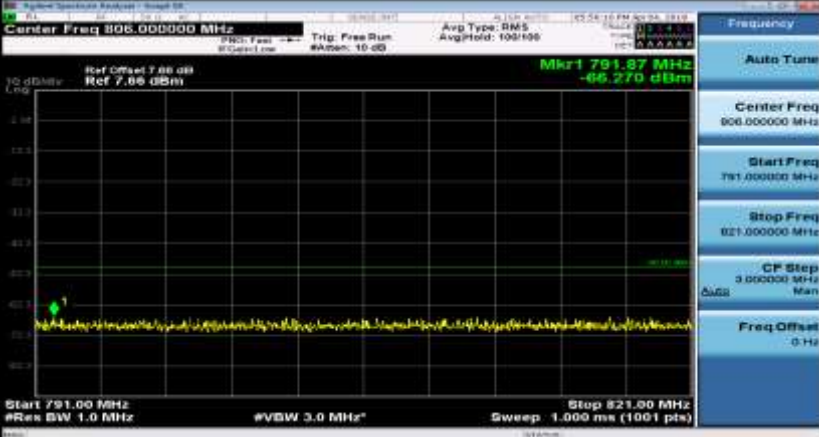
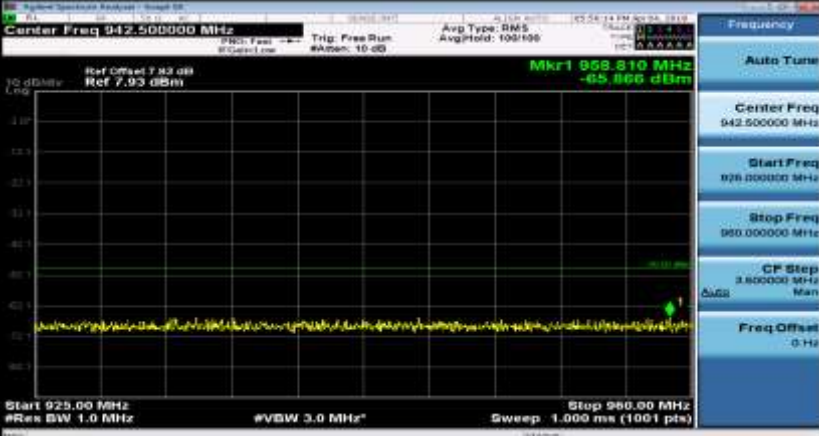
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#max	
General	
General	

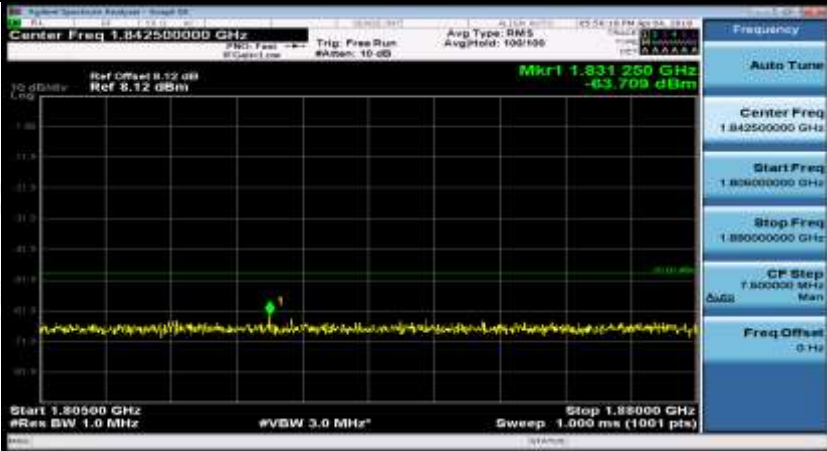
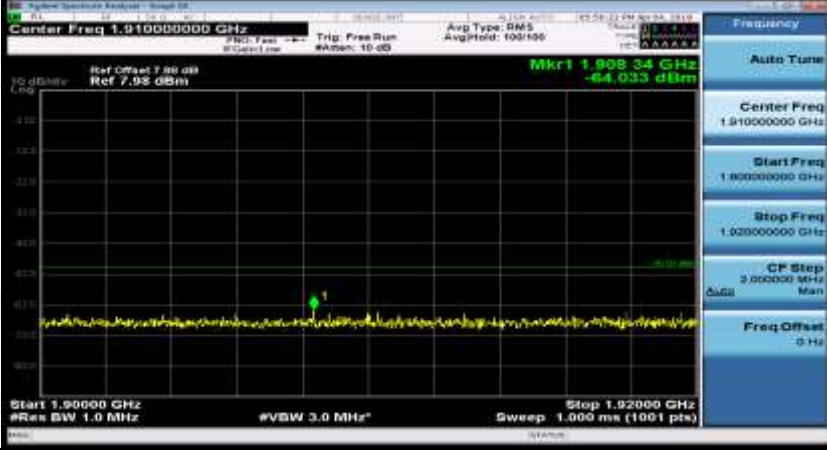
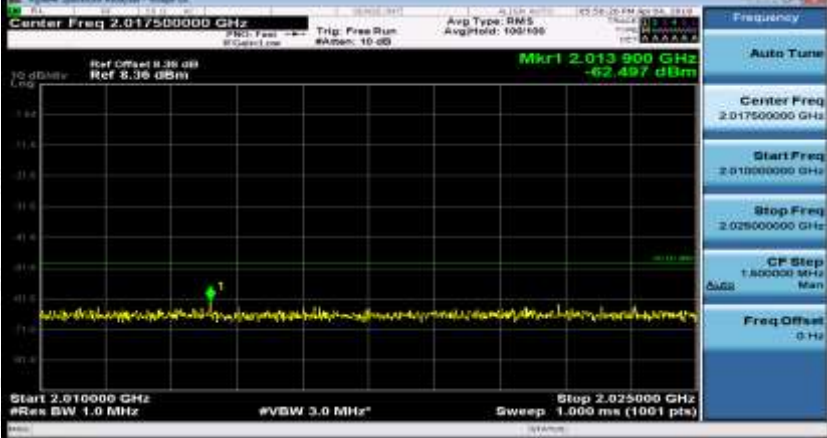
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General			
General			
General			

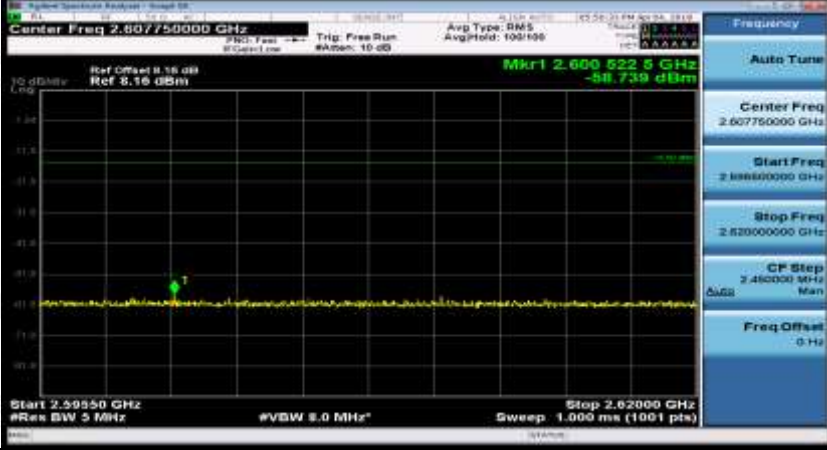
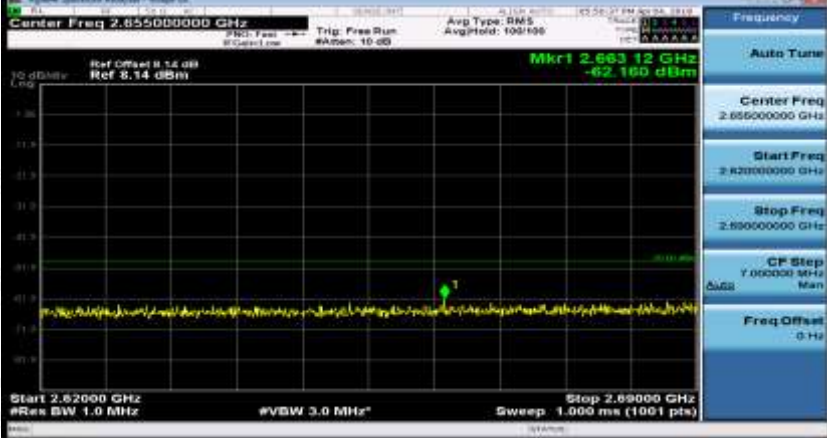
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General			
Co-existence			
Co-existence			

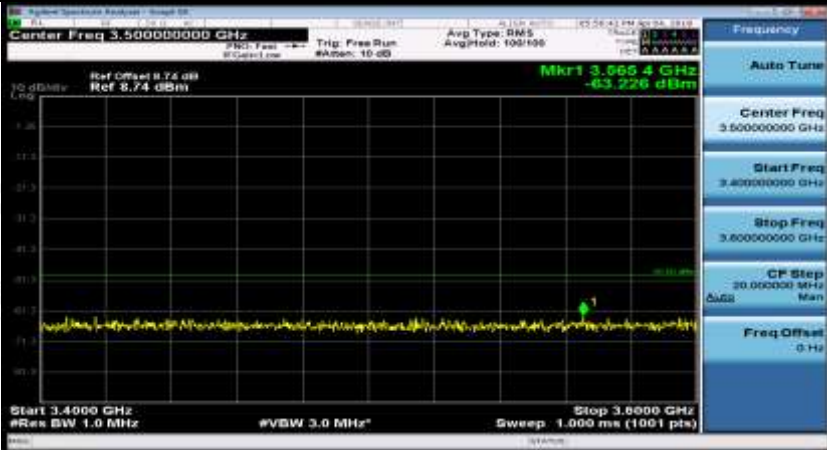
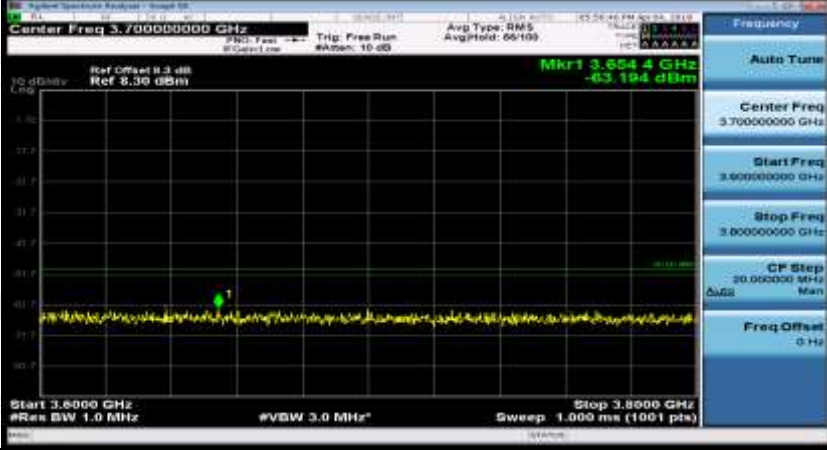
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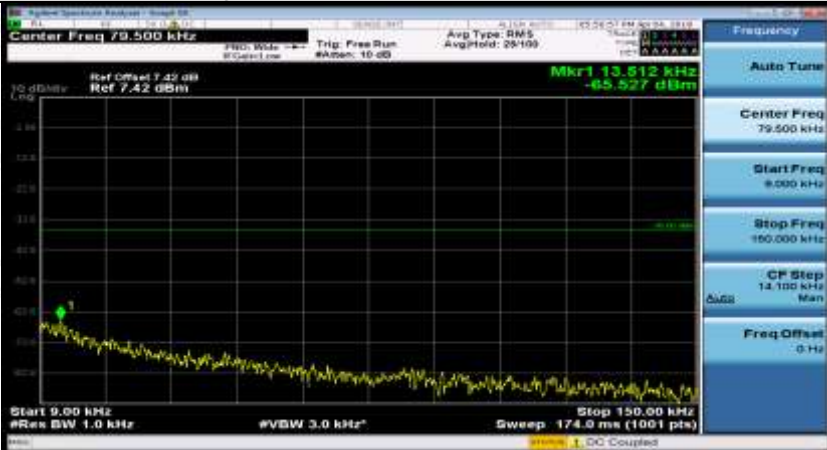
Co-existence	
Co-existence	
Co-existence	

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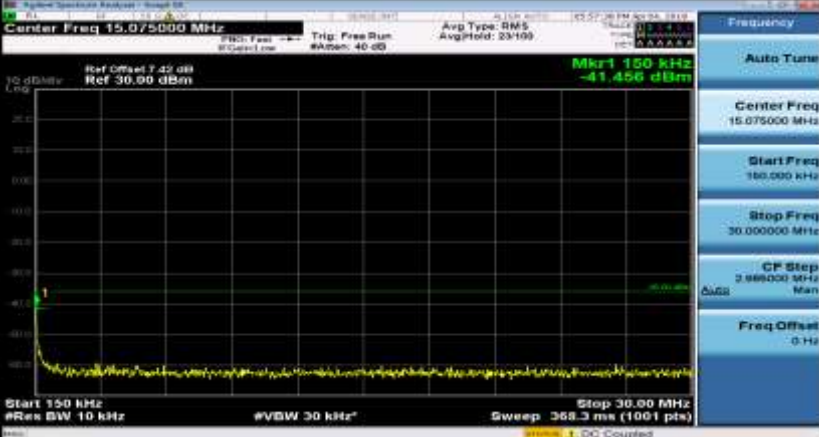
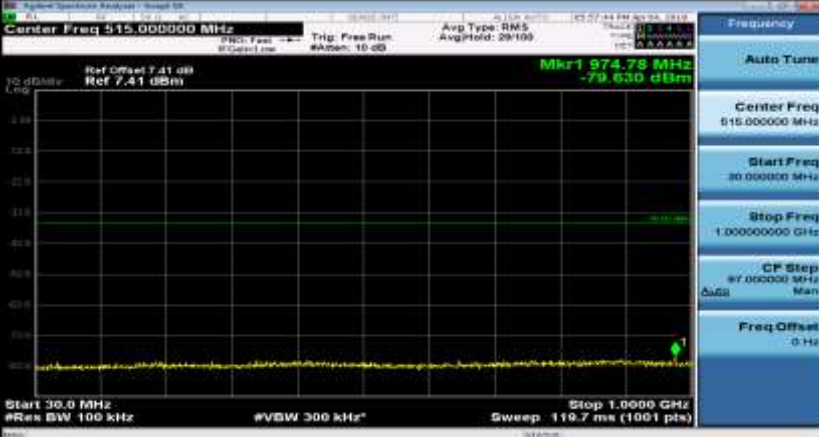
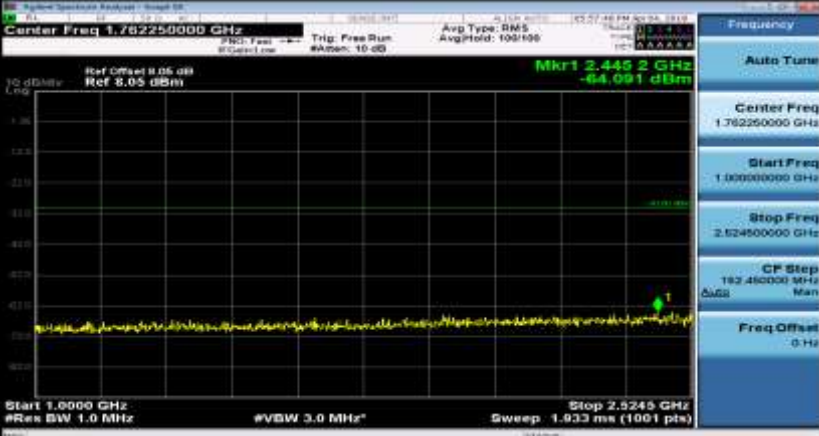
Co-existence	
Co-existence	
Co-existence	

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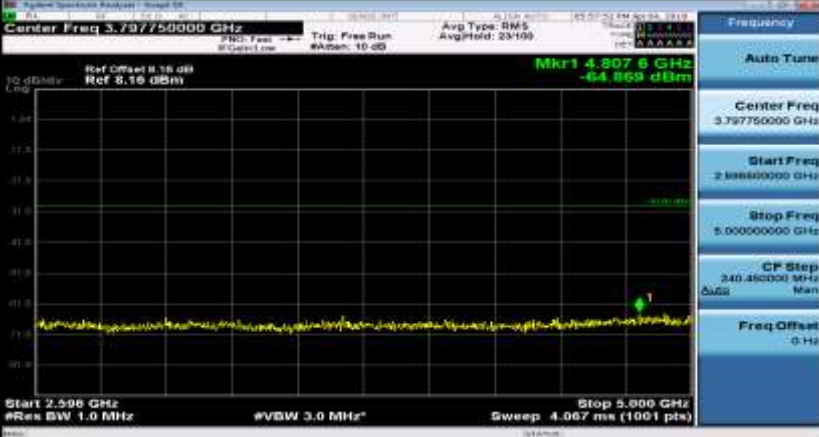
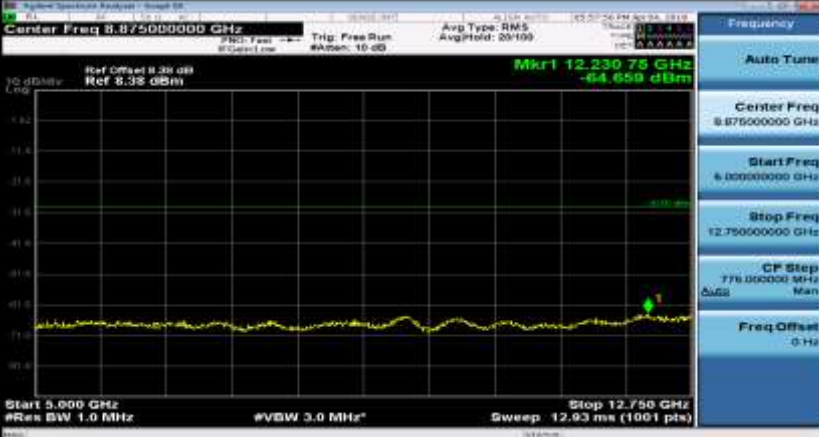
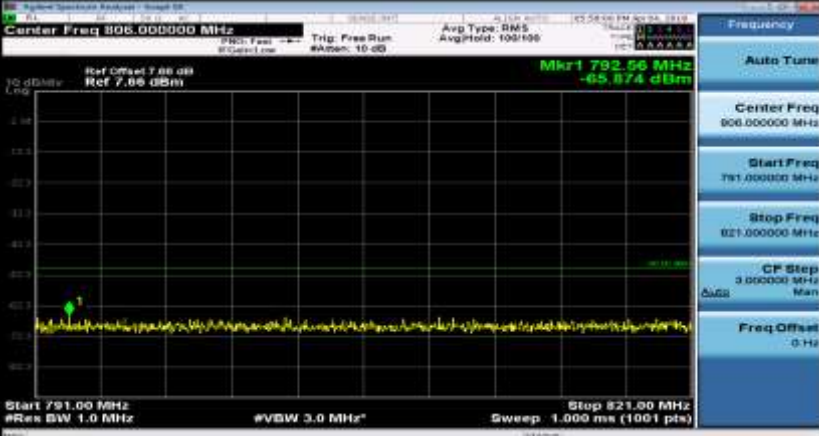
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_FullIRB#0	
General	

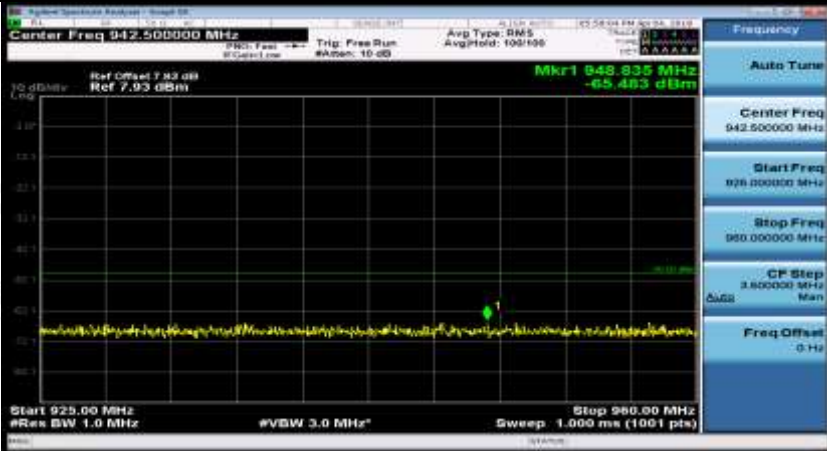
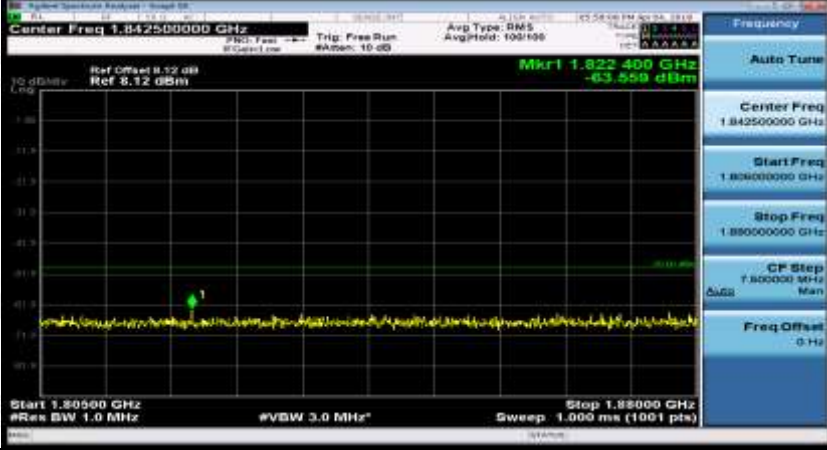
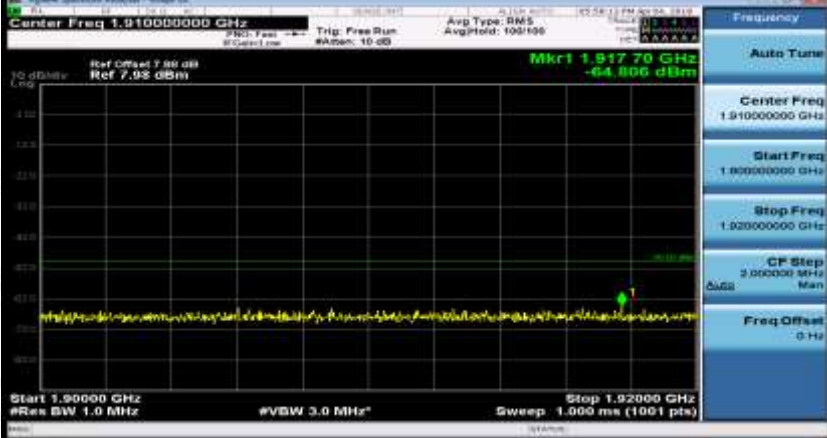
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General			
General			
General			

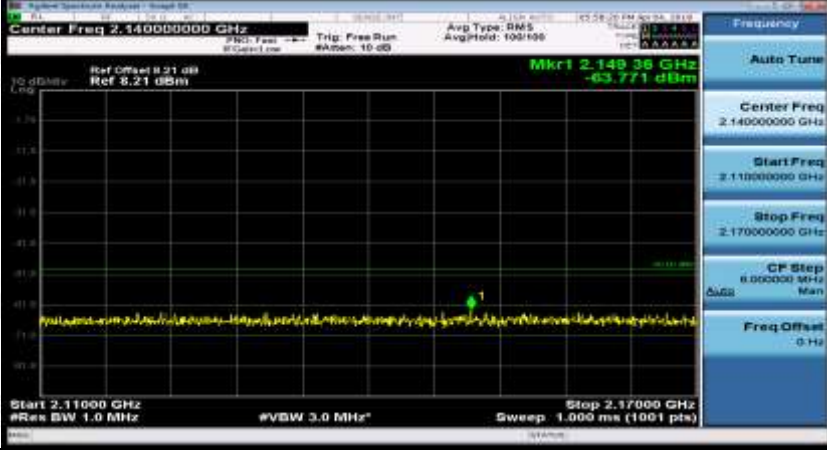
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General			
General			
Co-existence			

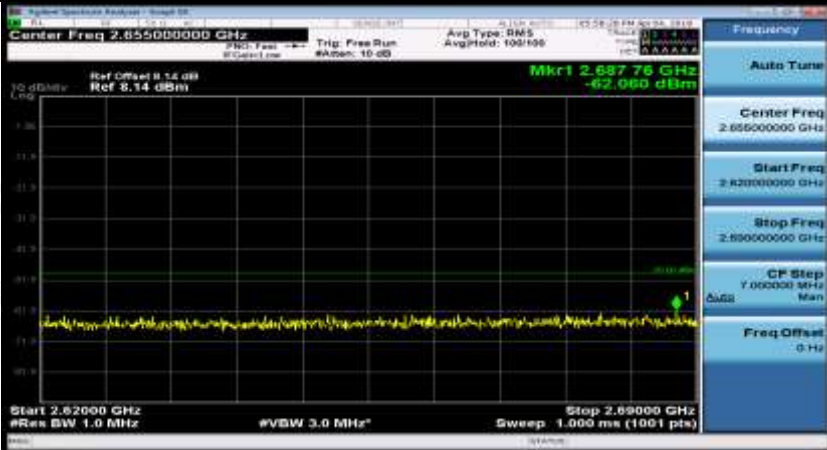
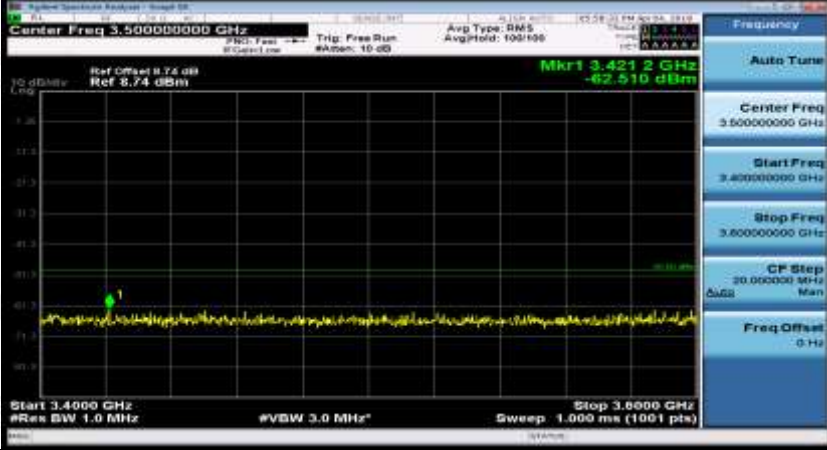

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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6. Receiver Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Highest

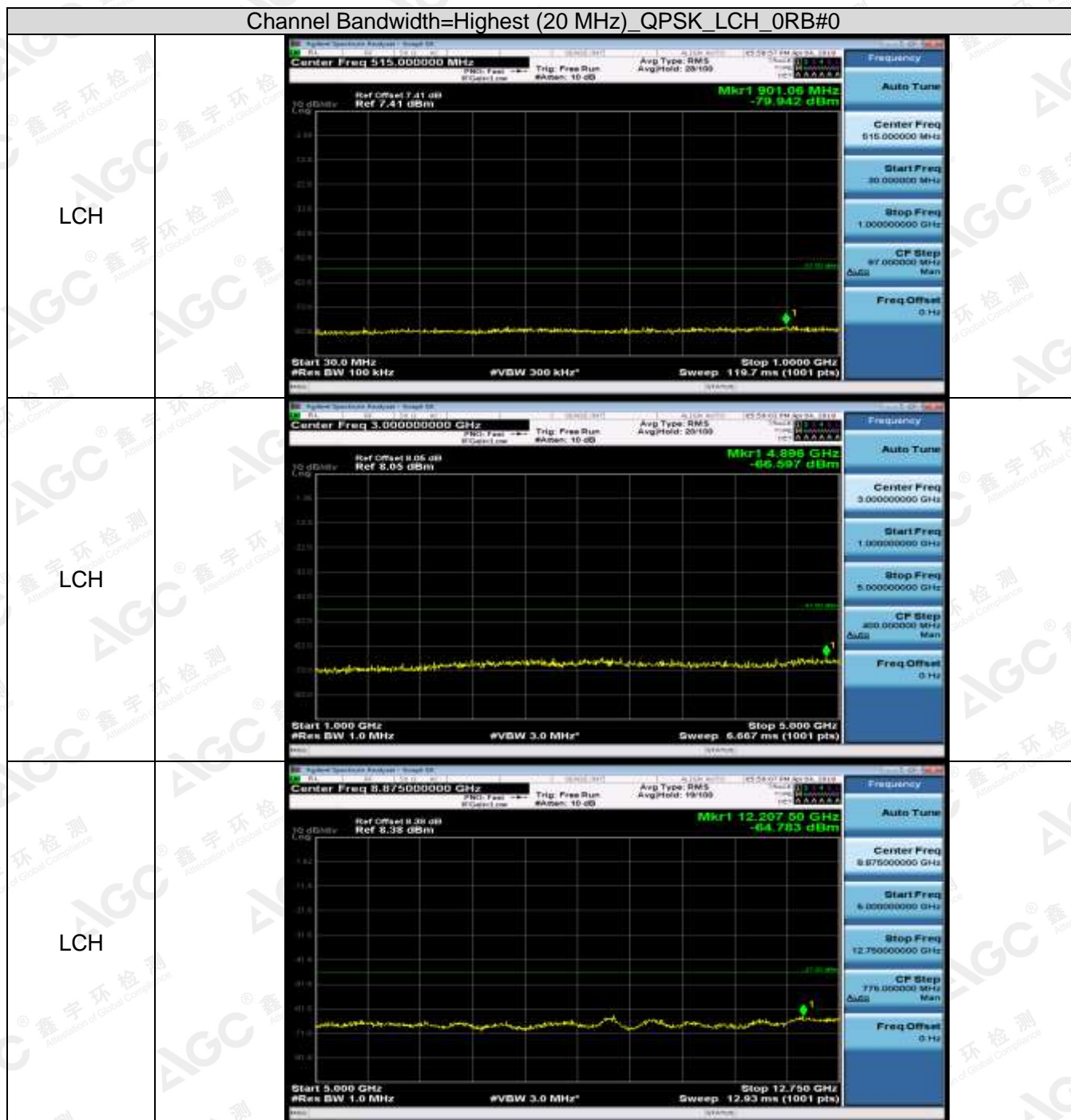
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	20 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

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Test Graphs

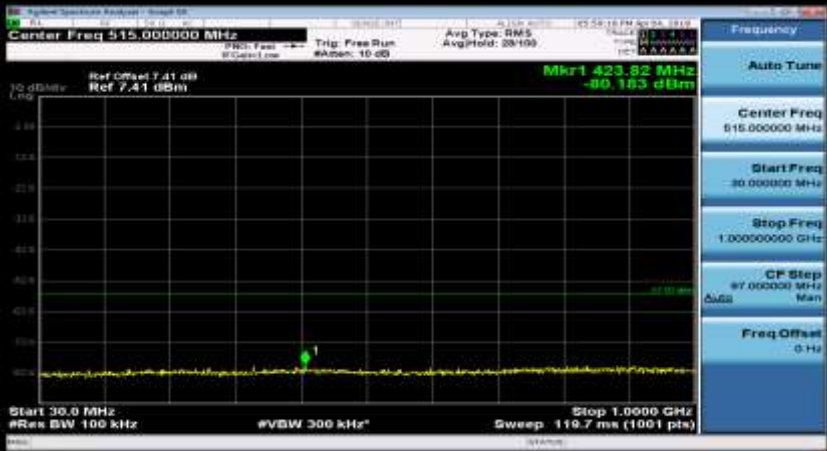
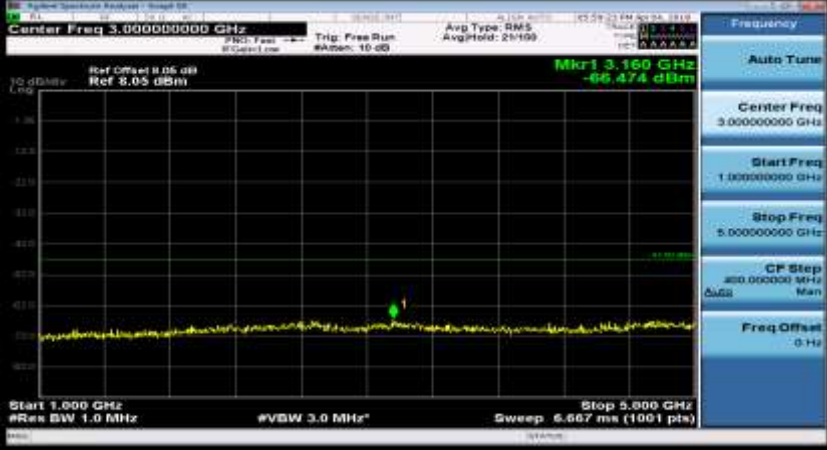

NTNV

Channel Bandwidth=Highest



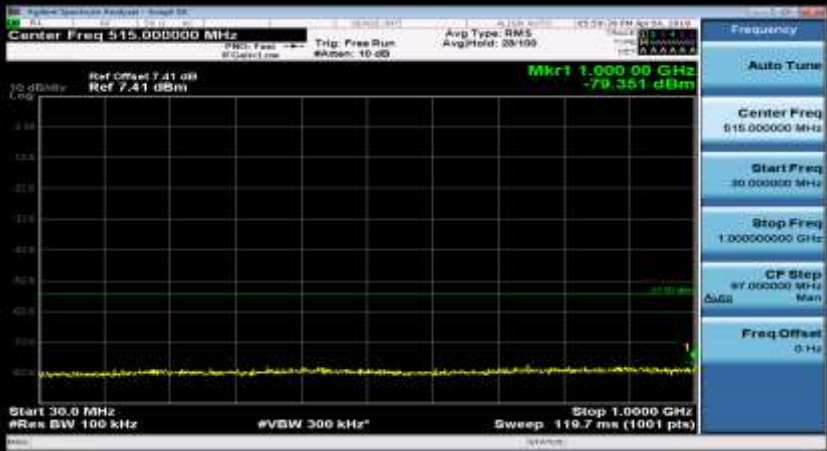


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Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_0RB#0

MCH	
MCH	
MCH	

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Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_ORB#0

HCH	
HCH	
HCH	

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7. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

Channel Bandwidth=Highest= (20 MHz)

Frequency	Modulation	RBW	Max Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-81.24	-81.57	-81.68
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-69.44	-69.32	-69.56
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-66.43	-66.87	-66.58
Verdict	PASS					

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8. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest, 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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9. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest, 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

Out-of Band Blocking

Test Environment			NC		
Test Frequencies			Low range for FInterferer below FDL_low High range for FInterferer above FDL_high		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

Narrow Band

Test Environment		NC	
Test Frequencies		Mid range	
Test Channel Bandwidths		Lowest, 5MHz, Highest 20MHz	
Test Parameters for Channel Bandwidths			
	Downlink Configuration	Uplink Configuration	

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Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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10. Receiver Spurious Response

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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11. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Band			Band 7			
Test Environment			NC			
Test Frequencies			Mid range			
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz			
Test Parameters for Channel Bandwidths						
	Downlink Configuration		Uplink Configuration			
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
		FDD		FDD		
5MHz	QPSK	Full	QPSK	25	Pass	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
20MHz	QPSK	Full	QPSK	100	Pass	≥ 95 %
Verdict	Pass					

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12. Receiver Reference Sensitivity Level

Test Results

Note: All the modes had been tested, but only the worst data recorded in the report.

LTLV

	Test Band			Band 7			
	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,5MHz,Highest 20MHz			
	Test Parameters for Channel Bandwidths						
		DownlinkConfigurat ion		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughpu t Limit
			FDD		FDD		
TL,VL	5MHz	QPSK	Full	QPSK	25	Pass	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	Pass	≥ 95 %
	Verdict	Pass					

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Appendix D for Band 8

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

LTHV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
LTHV	QPSK	1.4 MHz	Low range	1	0	22.71	Pass
					max	22.69	Pass
				Partial	0	22.78	Pass
					max	22.81	Pass
			Mid range	1	0	22.66	Pass
					max	22.65	Pass
				Partial	0	22.71	Pass
					max	22.74	Pass
			High range	1	0	22.85	Pass
					max	22.88	Pass
				Partial	0	23.08	Pass
					max	23.15	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
LTHV	QPSK	5MHz	Low range	1	0	22.67	Pass
					max	22.66	Pass
				Partial	0	22.69	Pass
					max	22.72	Pass
			Mid range	1	0	22.60	Pass
					max	22.59	Pass
				Partial	0	22.69	Pass
					max	22.65	Pass
			High range	1	0	22.89	Pass
					max	22.97	Pass
				Partial	0	22.94	Pass
					max	22.83	Pass

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Channel Bandwidth=Highest (10 MHz)

Channel Bandwidth=Highest (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
LTHV	QPSK	10 MHz	Low range	1	0	22.72	Pass
					max	22.70	Pass
				Partial	0	22.68	Pass
					max	22.71	Pass
			Mid range	1	0	22.67	Pass
					max	22.64	Pass
				Partial	0	22.73	Pass
					max	22.67	Pass
			High range	1	0	22.90	Pass
					max	22.91	Pass
				Partial	0	22.95	Pass
					max	22.82	Pass

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2. Transmitter Minimum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

HTLV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
HTLV	QPSK	1.4 MHz	Low range	Full	0	-50.22	Pass
			Mid range	Full	0	-50.53	Pass
			High range	Full	0	-50.51	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
HTLV	QPSK	5MHz	Low range	Full	0	-50.35	Pass
			Mid range	Full	0	-50.28	Pass
			High range	Full	0	-50.07	Pass

Channel Bandwidth=Highest (10 MHz)

Channel Bandwidth=Highest (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
HTLV	QPSK	10MHz	Low range	Full	0	-50.34	Pass
			Mid range	Full	0	-50.38	Pass
			High range	Full	0	-50.03	Pass

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3. Transmitter Spectrum Emission Mask

Test Result

NTN

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass

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					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
			High range	Full	0	PUMAX	Pass
					0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass

Channel Bandwidth=Highest (10 MHz)

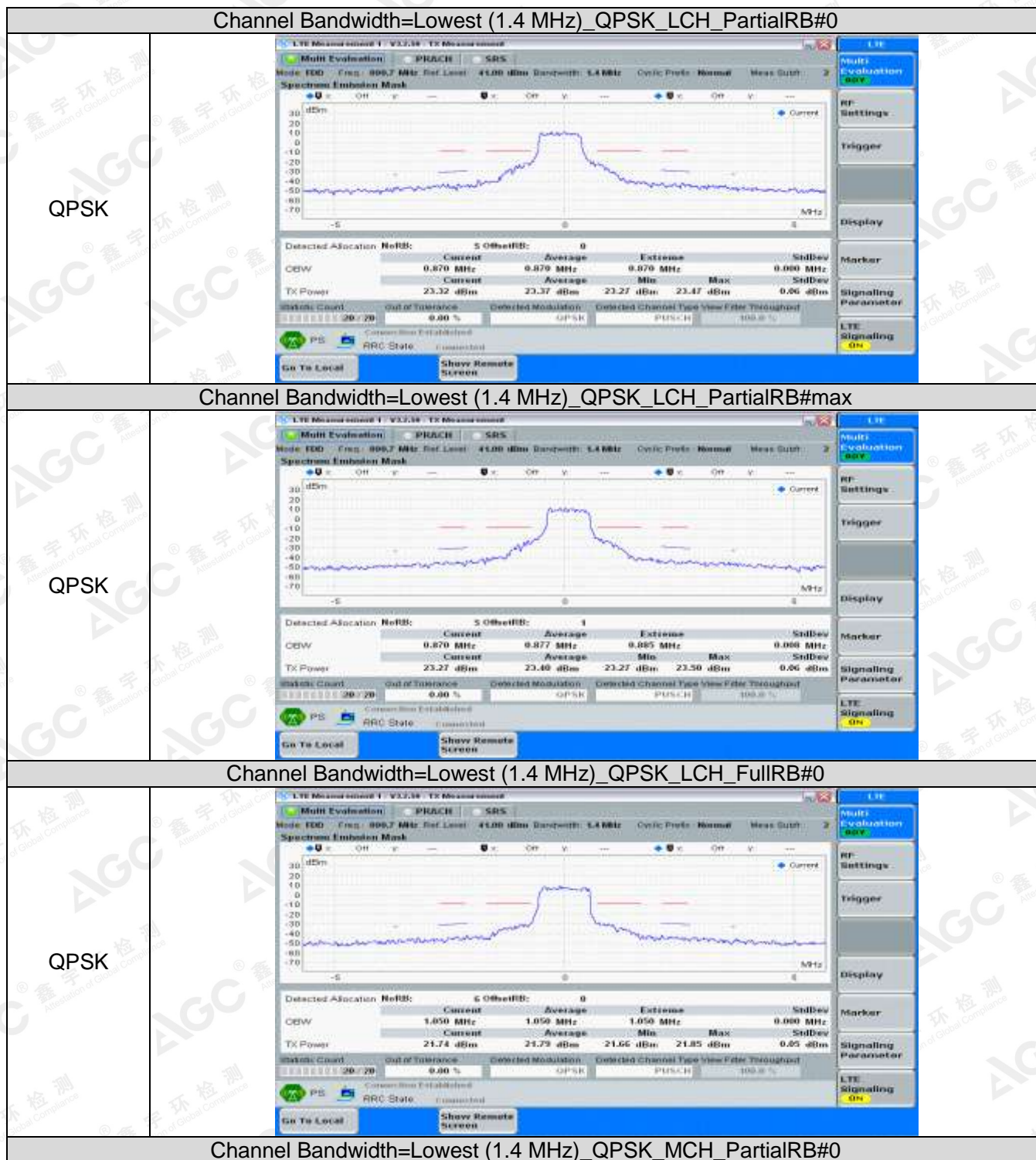
Channel Bandwidth=Highest (10MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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Test Graphs

NTNV

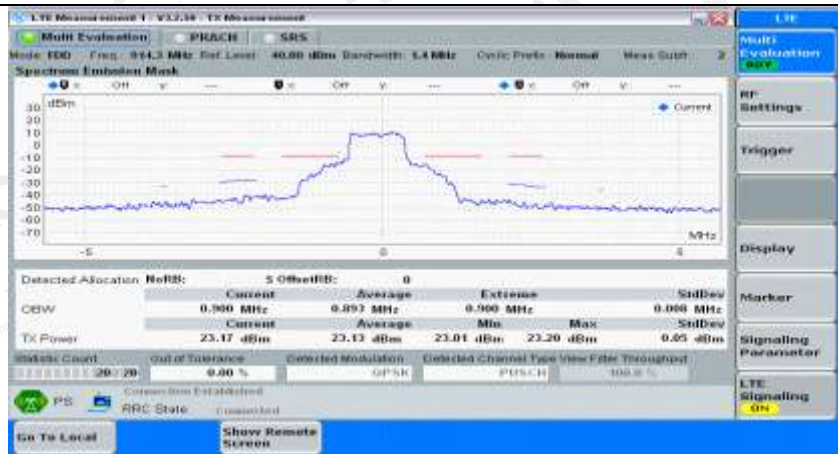
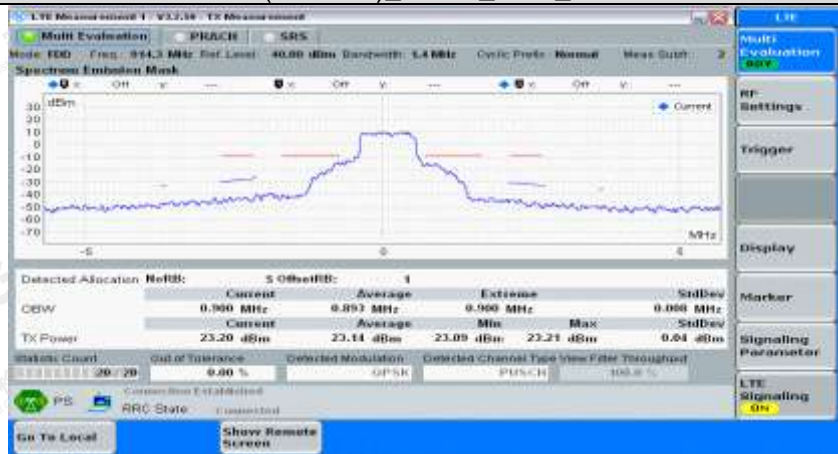

Channel Bandwidth=Lowest (1.4 MHz)



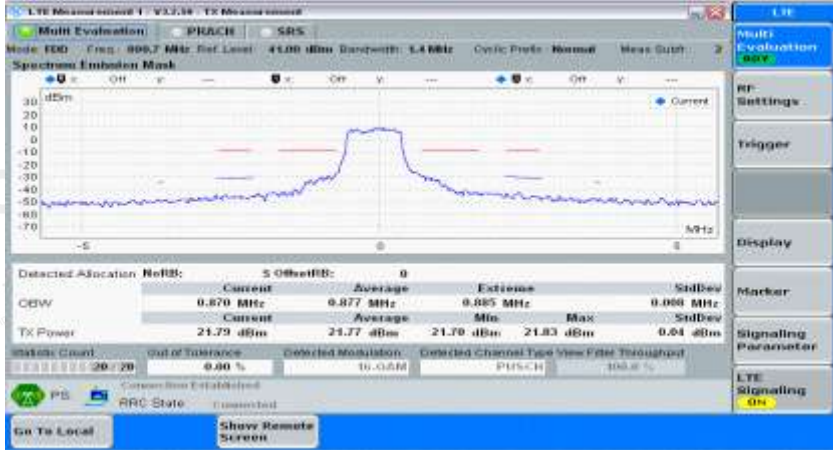
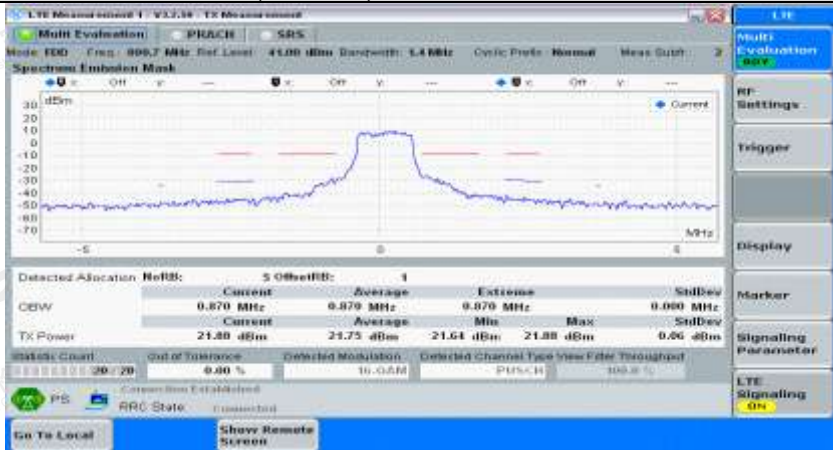
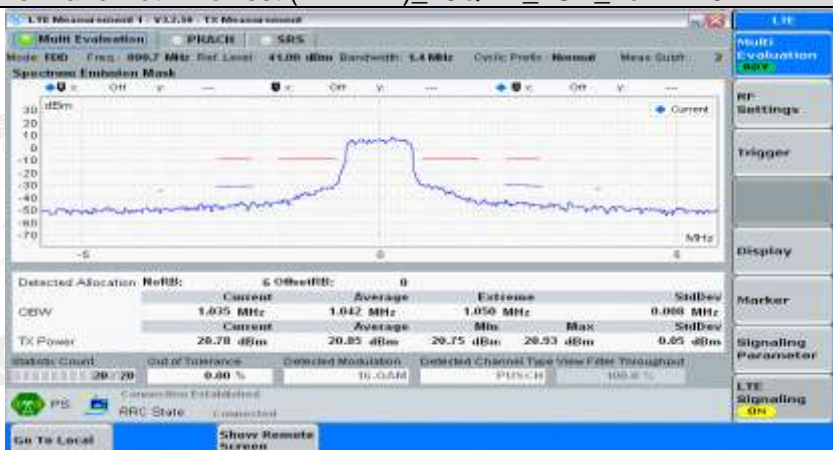
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QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#0	

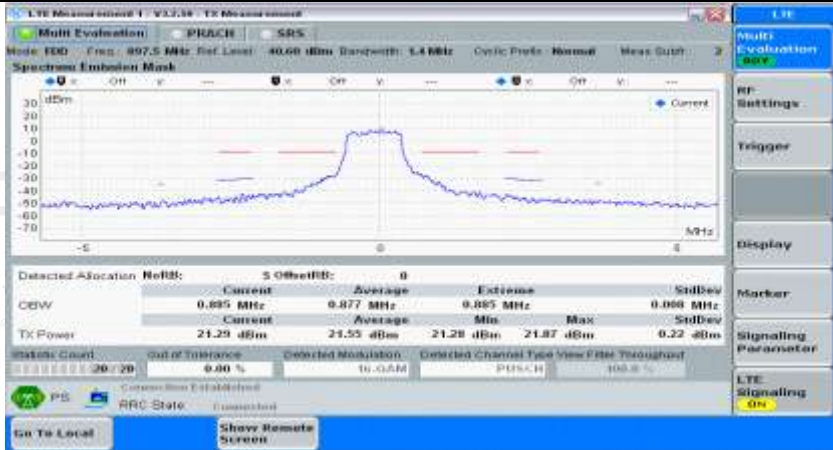
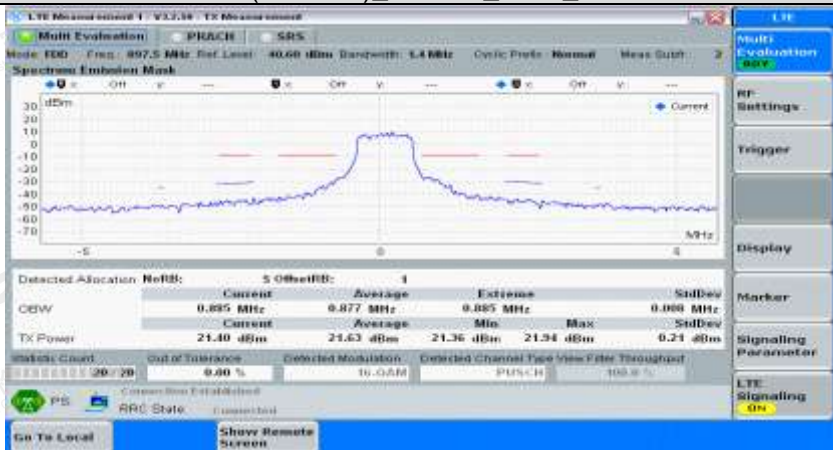
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

QPSK	 <table><tr><th colspan="2">Detected Allocation</th><th colspan="2">NoRB#</th><th colspan="2">S OffsetRB#</th><th colspan="2">0</th><th colspan="2">Extrema</th><th colspan="2">Sideband</th></tr><tr><td>CEBW</td><td>0.960 MHz</td><td>Current</td><td>0.893 MHz</td><td>Average</td><td>0.960 MHz</td><td>Min</td><td>0.888 MHz</td><td>Max</td><td>0.960 MHz</td><td>Sideband</td><td>0.004 dBm</td></tr><tr><td>TX Power</td><td>23.17 dBm</td><td>Current</td><td>23.13 dBm</td><td>Average</td><td>23.01 dBm</td><td>Min</td><td>23.20 dBm</td><td>Max</td><td>23.20 dBm</td><td>Sideband</td><td>0.05 dBm</td></tr></table>	Detected Allocation		NoRB#		S OffsetRB#		0		Extrema		Sideband		CEBW	0.960 MHz	Current	0.893 MHz	Average	0.960 MHz	Min	0.888 MHz	Max	0.960 MHz	Sideband	0.004 dBm	TX Power	23.17 dBm	Current	23.13 dBm	Average	23.01 dBm	Min	23.20 dBm	Max	23.20 dBm	Sideband	0.05 dBm
Detected Allocation		NoRB#		S OffsetRB#		0		Extrema		Sideband																											
CEBW	0.960 MHz	Current	0.893 MHz	Average	0.960 MHz	Min	0.888 MHz	Max	0.960 MHz	Sideband	0.004 dBm																										
TX Power	23.17 dBm	Current	23.13 dBm	Average	23.01 dBm	Min	23.20 dBm	Max	23.20 dBm	Sideband	0.05 dBm																										
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#max																																					
QPSK	 <table><tr><th colspan="2">Detected Allocation</th><th colspan="2">NoRB#</th><th colspan="2">S OffsetRB#</th><th colspan="2">1</th><th colspan="2">Extrema</th><th colspan="2">Sideband</th></tr><tr><td>CEBW</td><td>0.960 MHz</td><td>Current</td><td>0.893 MHz</td><td>Average</td><td>0.960 MHz</td><td>Min</td><td>0.888 MHz</td><td>Max</td><td>0.960 MHz</td><td>Sideband</td><td>0.004 dBm</td></tr><tr><td>TX Power</td><td>23.20 dBm</td><td>Current</td><td>23.14 dBm</td><td>Average</td><td>23.09 dBm</td><td>Min</td><td>23.21 dBm</td><td>Max</td><td>23.21 dBm</td><td>Sideband</td><td>0.04 dBm</td></tr></table>	Detected Allocation		NoRB#		S OffsetRB#		1		Extrema		Sideband		CEBW	0.960 MHz	Current	0.893 MHz	Average	0.960 MHz	Min	0.888 MHz	Max	0.960 MHz	Sideband	0.004 dBm	TX Power	23.20 dBm	Current	23.14 dBm	Average	23.09 dBm	Min	23.21 dBm	Max	23.21 dBm	Sideband	0.04 dBm
Detected Allocation		NoRB#		S OffsetRB#		1		Extrema		Sideband																											
CEBW	0.960 MHz	Current	0.893 MHz	Average	0.960 MHz	Min	0.888 MHz	Max	0.960 MHz	Sideband	0.004 dBm																										
TX Power	23.20 dBm	Current	23.14 dBm	Average	23.09 dBm	Min	23.21 dBm	Max	23.21 dBm	Sideband	0.04 dBm																										
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_FullRB#0																																					
QPSK	 <table><tr><th colspan="2">Detected Allocation</th><th colspan="2">NoRB#</th><th colspan="2">S OffsetRB#</th><th colspan="2">0</th><th colspan="2">Extrema</th><th colspan="2">Sideband</th></tr><tr><td>CEBW</td><td>1.065 MHz</td><td>Current</td><td>1.057 MHz</td><td>Average</td><td>1.065 MHz</td><td>Min</td><td>0.997 MHz</td><td>Max</td><td>1.065 MHz</td><td>Sideband</td><td>0.007 dBm</td></tr><tr><td>TX Power</td><td>22.80 dBm</td><td>Current</td><td>22.62 dBm</td><td>Average</td><td>21.93 dBm</td><td>Min</td><td>22.11 dBm</td><td>Max</td><td>22.11 dBm</td><td>Sideband</td><td>0.05 dBm</td></tr></table>	Detected Allocation		NoRB#		S OffsetRB#		0		Extrema		Sideband		CEBW	1.065 MHz	Current	1.057 MHz	Average	1.065 MHz	Min	0.997 MHz	Max	1.065 MHz	Sideband	0.007 dBm	TX Power	22.80 dBm	Current	22.62 dBm	Average	21.93 dBm	Min	22.11 dBm	Max	22.11 dBm	Sideband	0.05 dBm
Detected Allocation		NoRB#		S OffsetRB#		0		Extrema		Sideband																											
CEBW	1.065 MHz	Current	1.057 MHz	Average	1.065 MHz	Min	0.997 MHz	Max	1.065 MHz	Sideband	0.007 dBm																										
TX Power	22.80 dBm	Current	22.62 dBm	Average	21.93 dBm	Min	22.11 dBm	Max	22.11 dBm	Sideband	0.05 dBm																										
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#0																																					

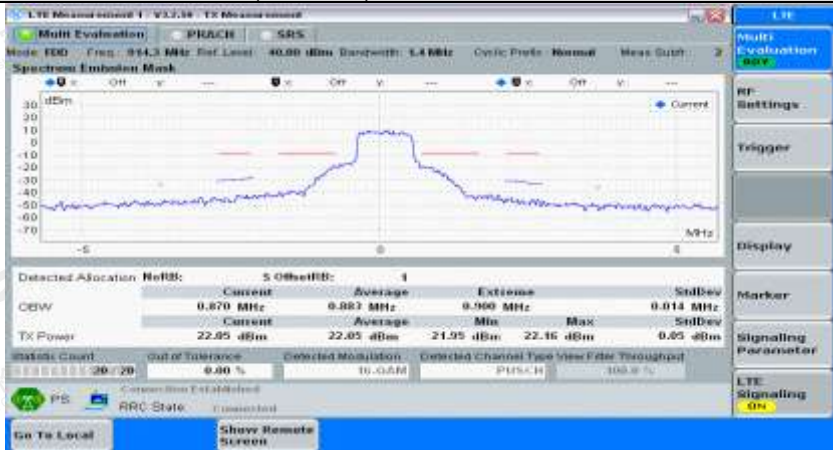
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16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#0	

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16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#0</p>

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16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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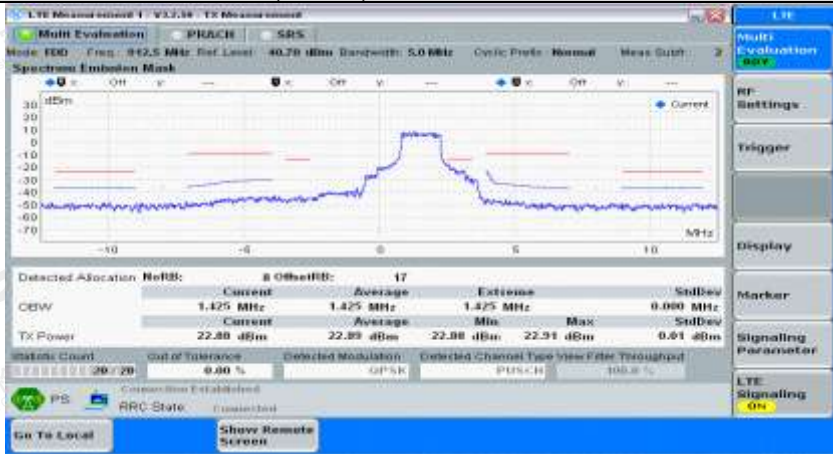

Channel Bandwidth= (5 MHz)

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#0	
QPSK	<p>Detected Allocation: 1.410 MHz TX Power: 22.73 dBm</p>
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#max	
QPSK	<p>Detected Allocation: 1.425 MHz TX Power: 22.80 dBm</p>
Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullIRB#0	
QPSK	<p>Detected Allocation: 4.425 MHz TX Power: 21.77 dBm</p>
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0	


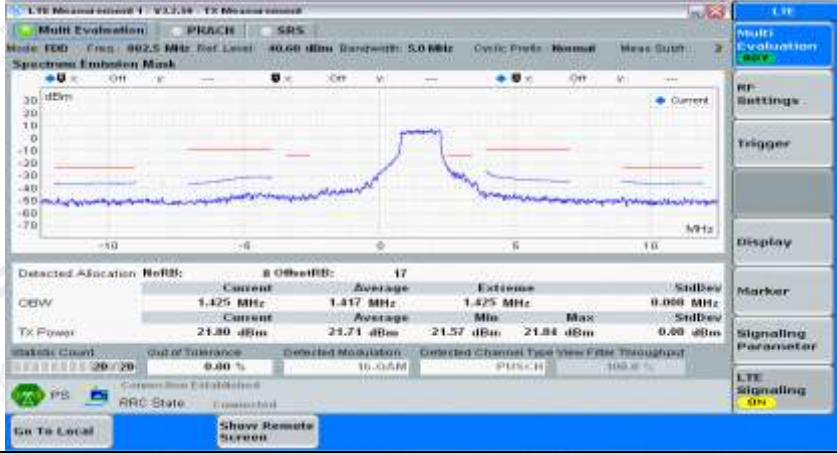
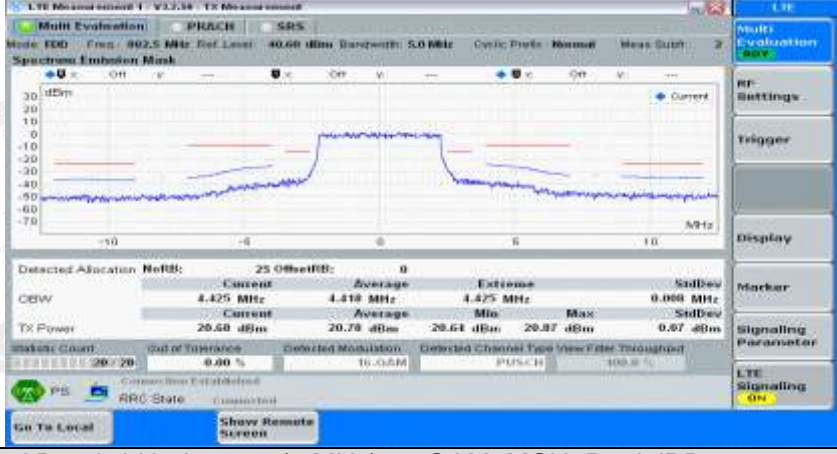
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0	


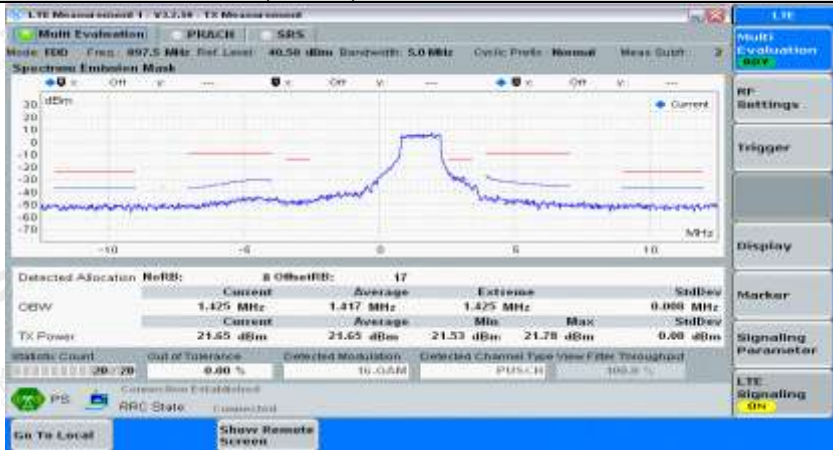
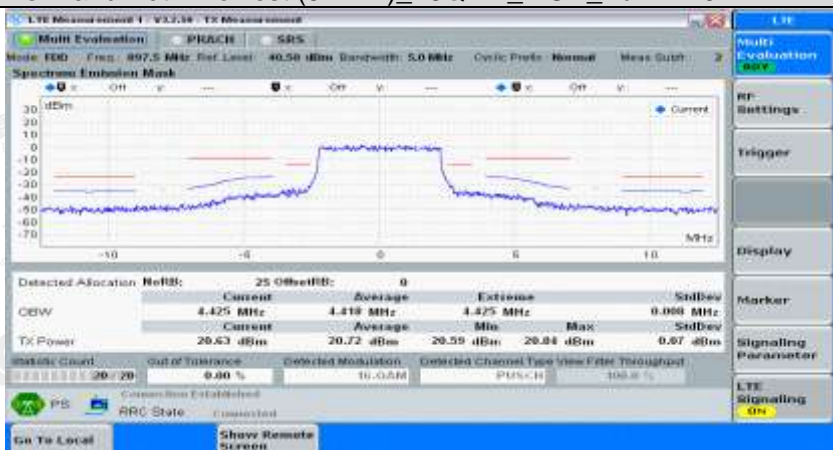
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0	

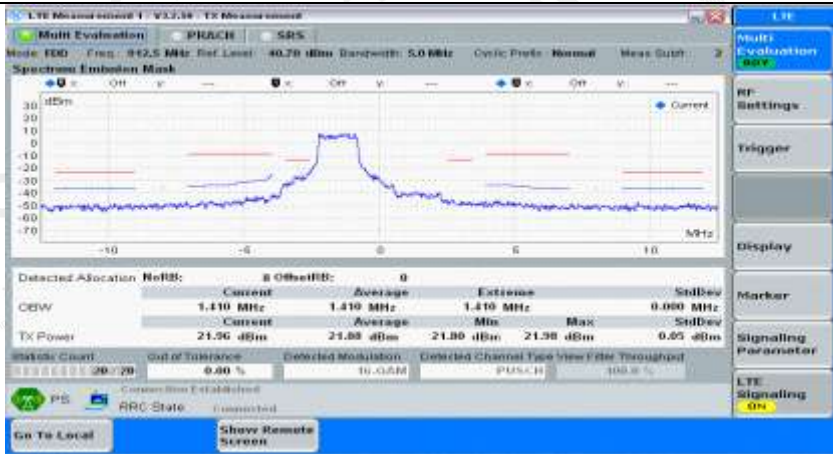
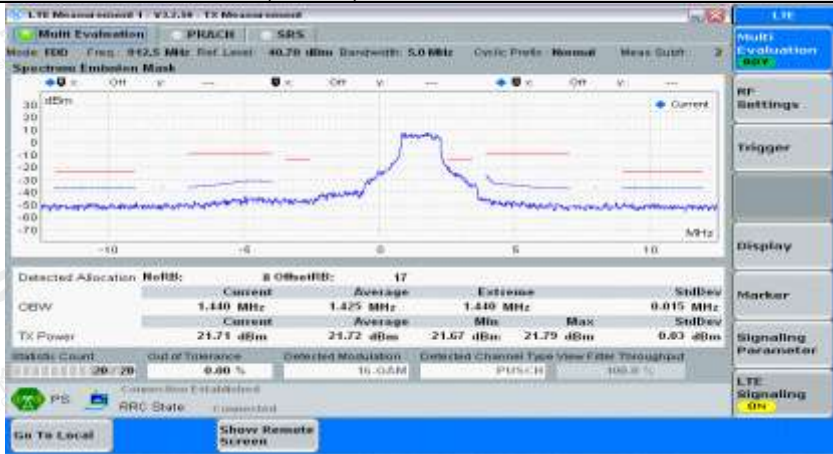
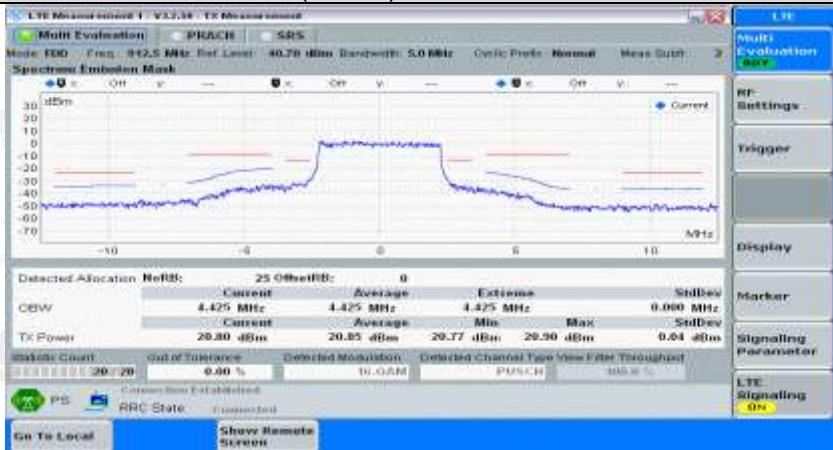
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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullIRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	

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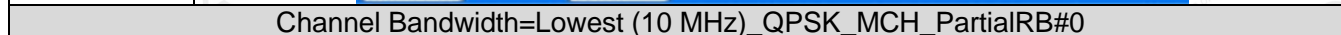
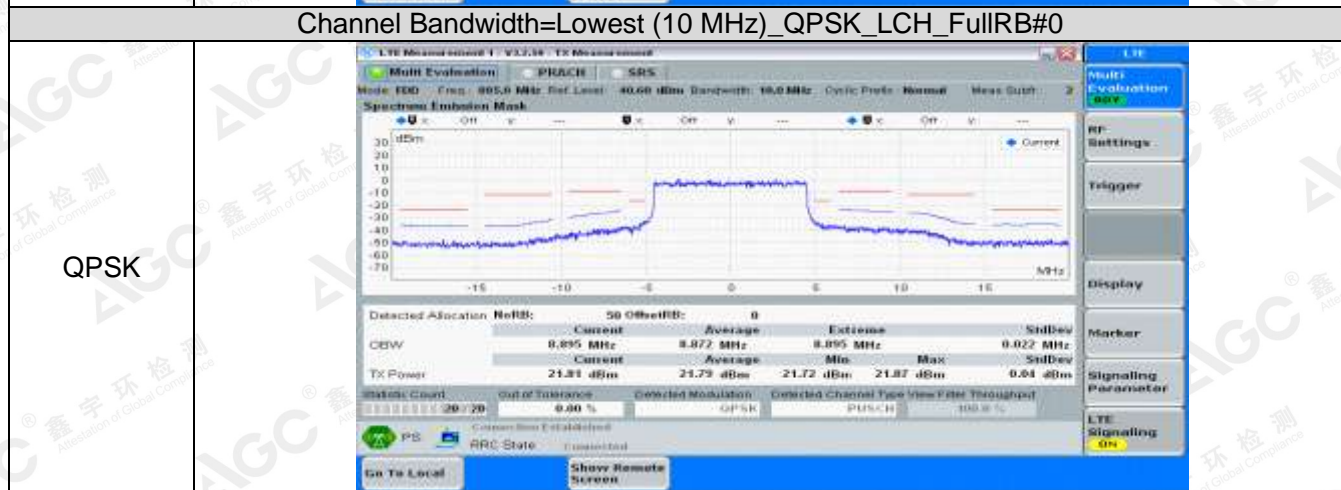
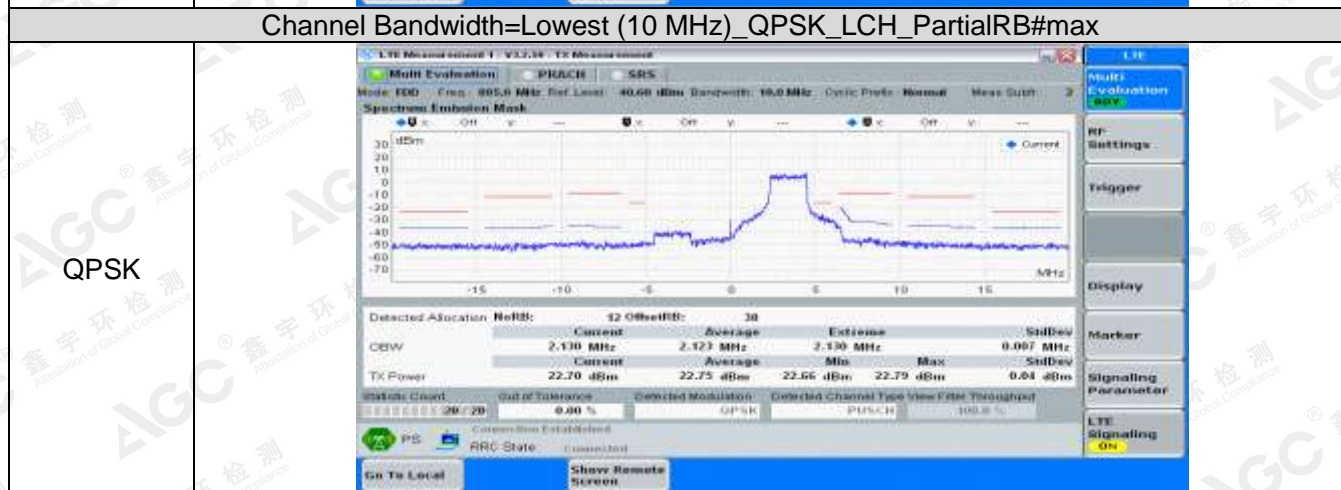
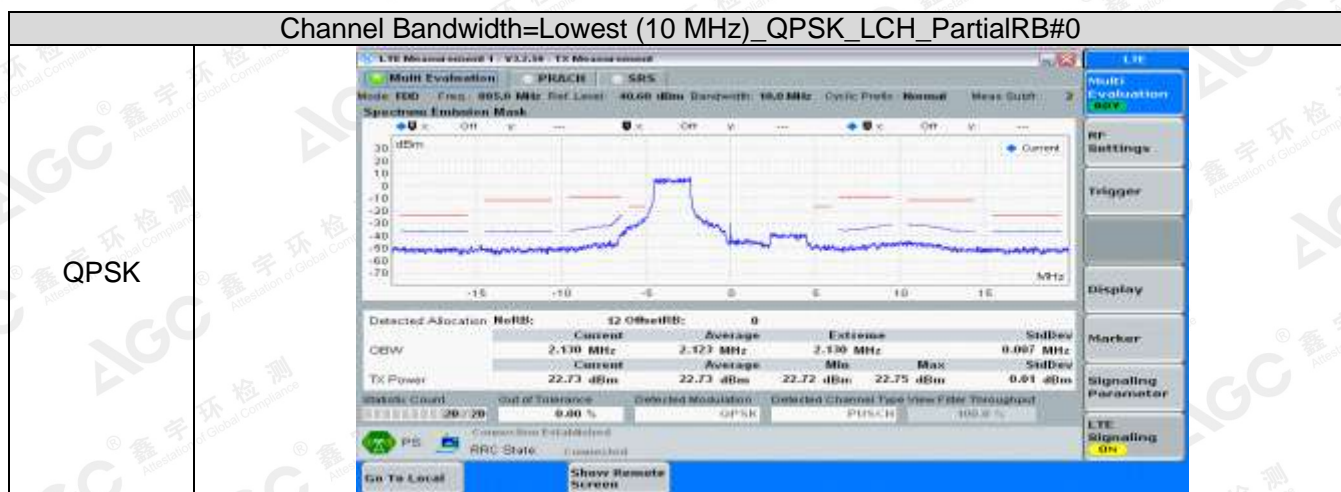
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0	

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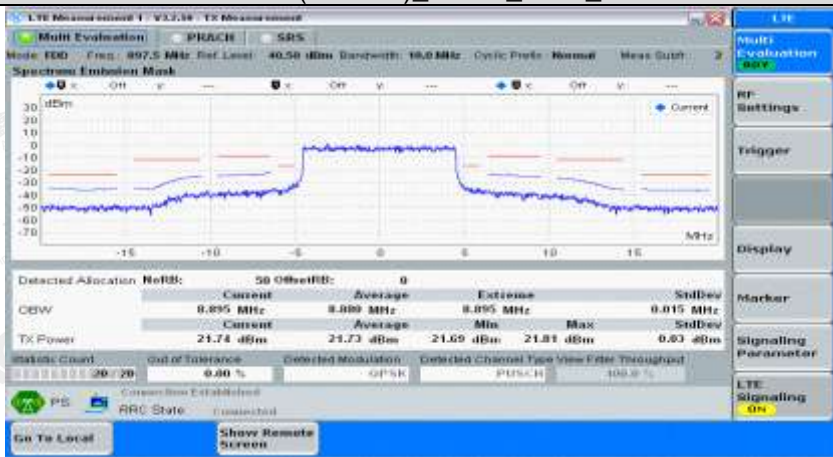
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullIRB#0	
16QAM	

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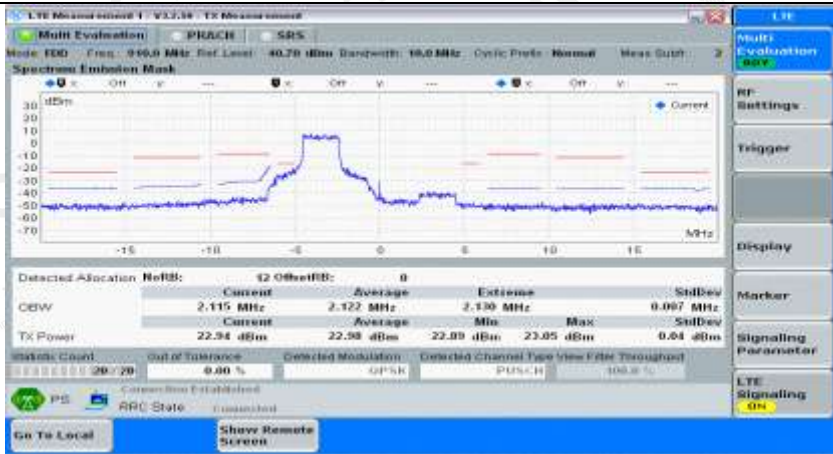

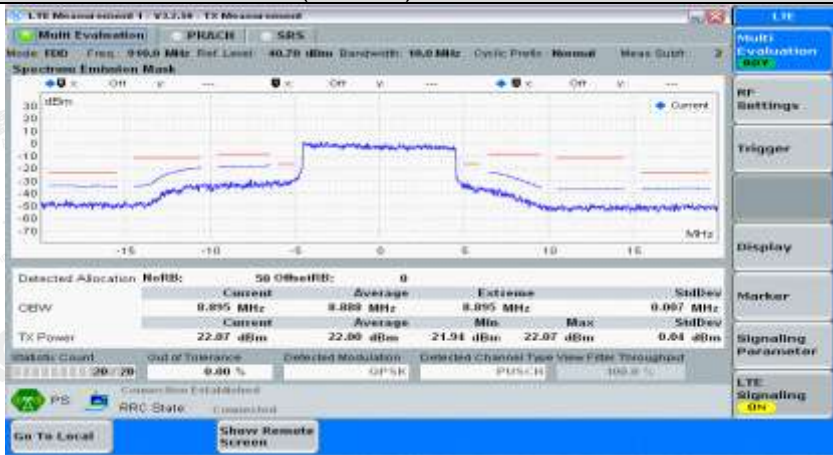
Channel Bandwidth=Highest (10 MHz)



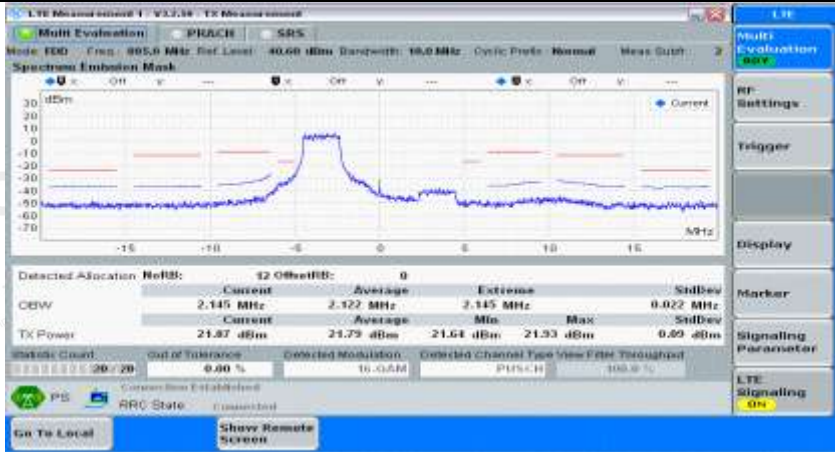

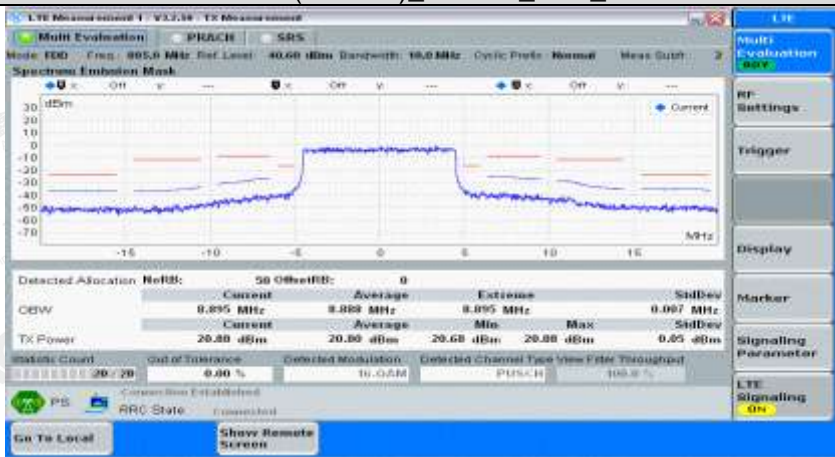
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0	

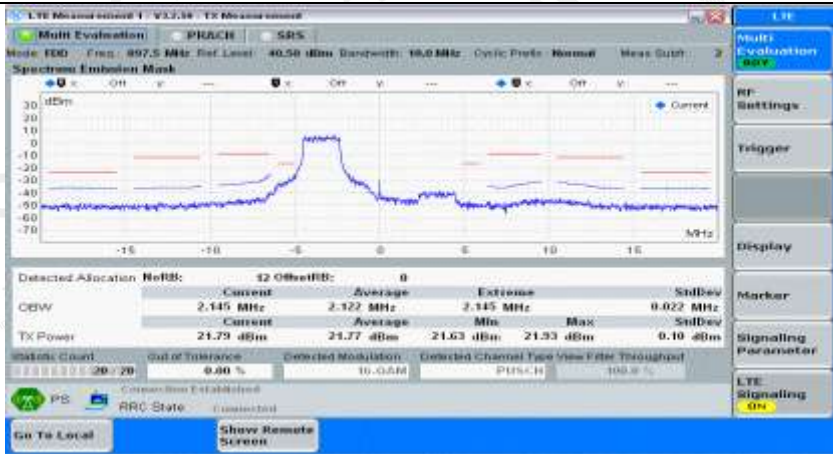
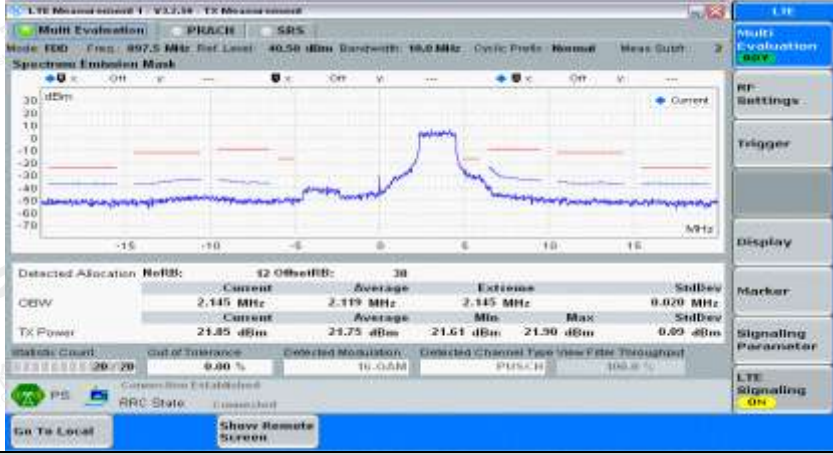
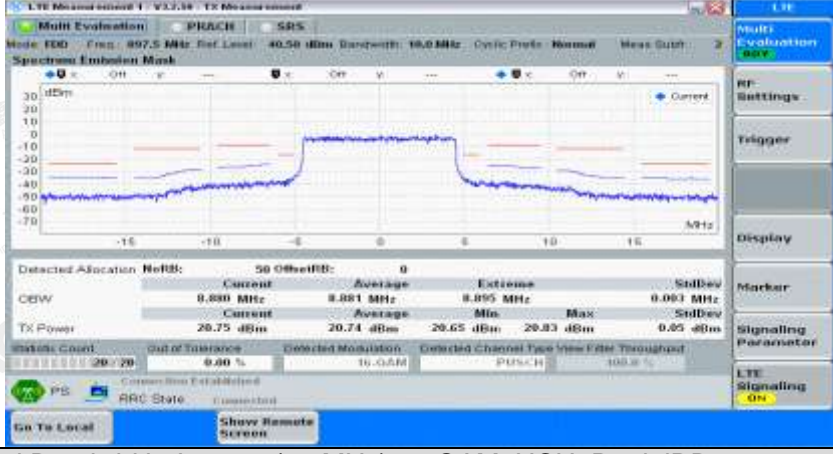
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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0	

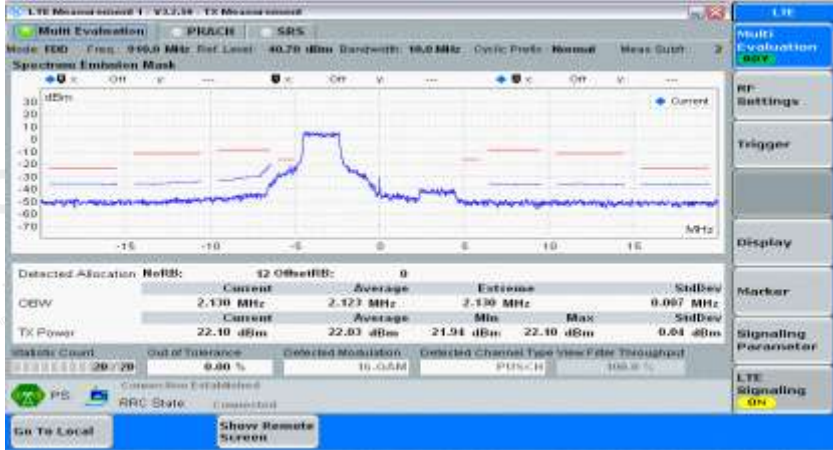

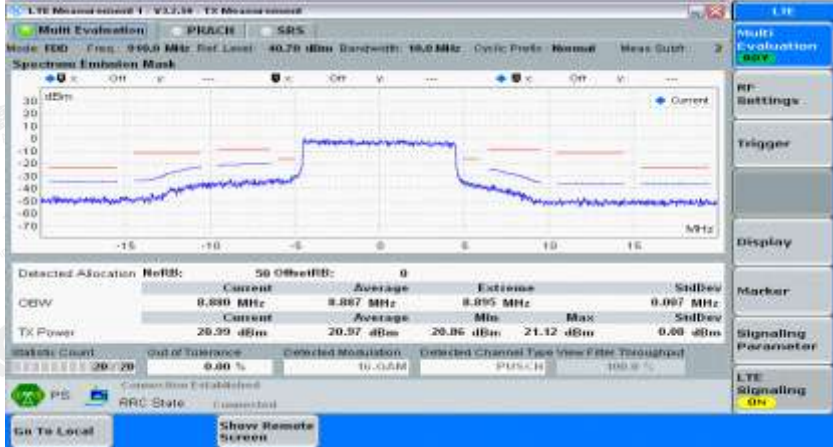
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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

LTLV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
LTLV	QPSK	1.4 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
LTLV	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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	16QAM	Low range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		Mid range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		High range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass

Channel Bandwidth=Highest (10 MHz)

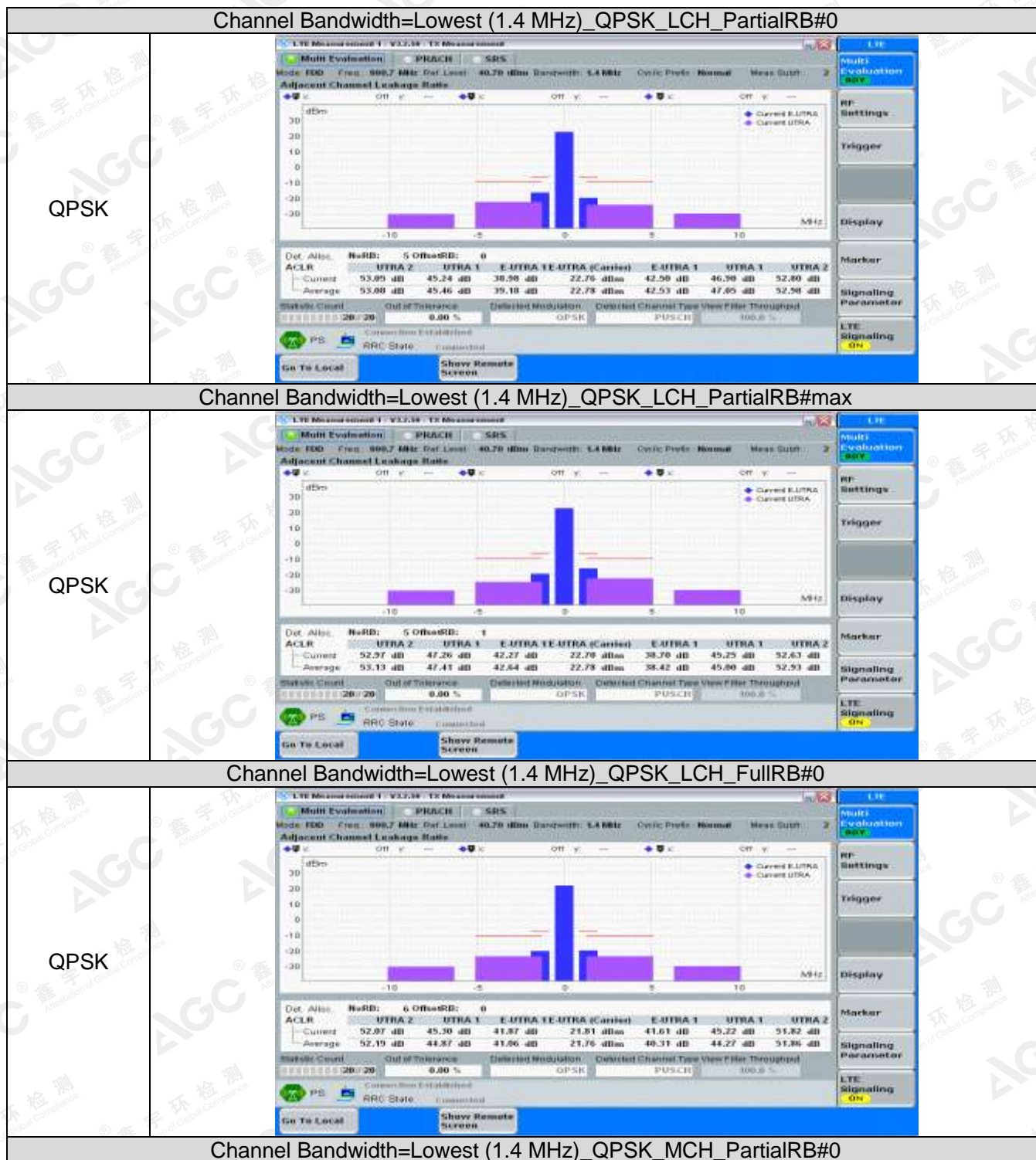
Channel Bandwidth=Highest (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
LTLV	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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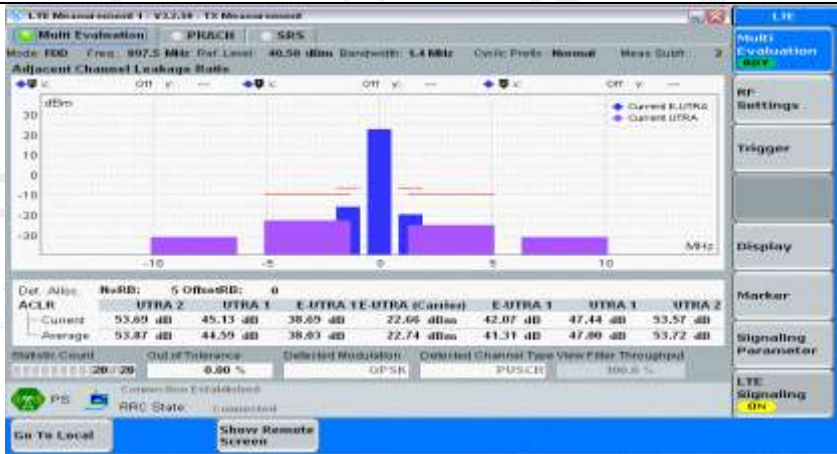

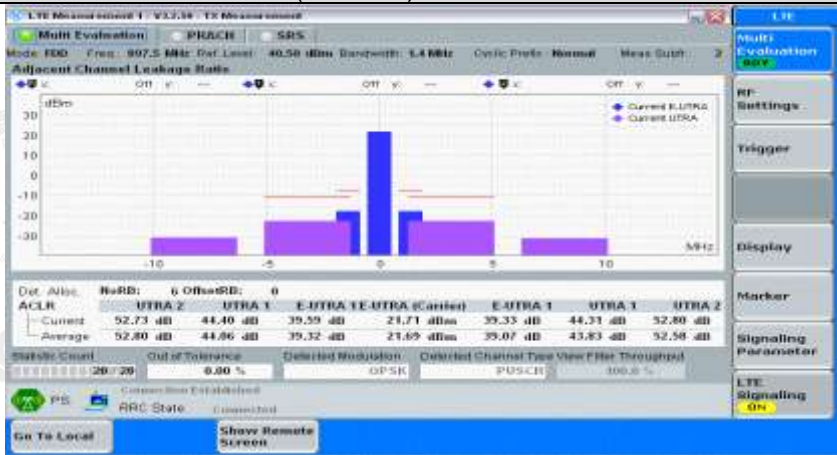
Test Graphs

LTLV

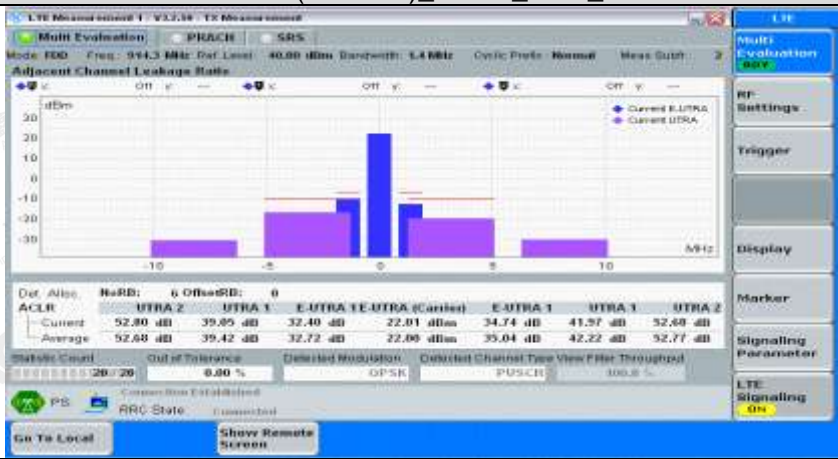
Channel Bandwidth=Lowest (1.4 MHz)



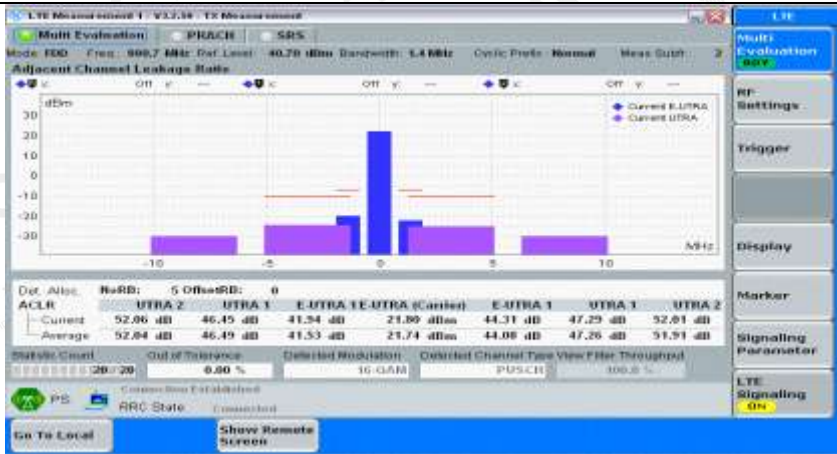
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QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#0</p>


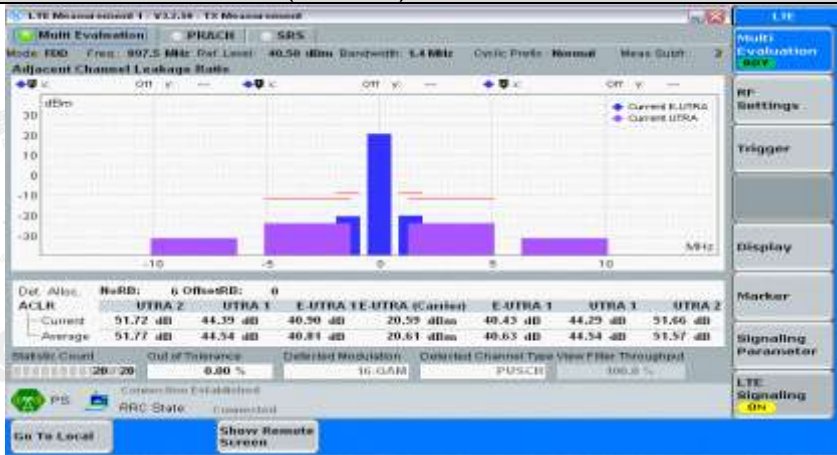
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QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#0</p>




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16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_LCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#0</p>

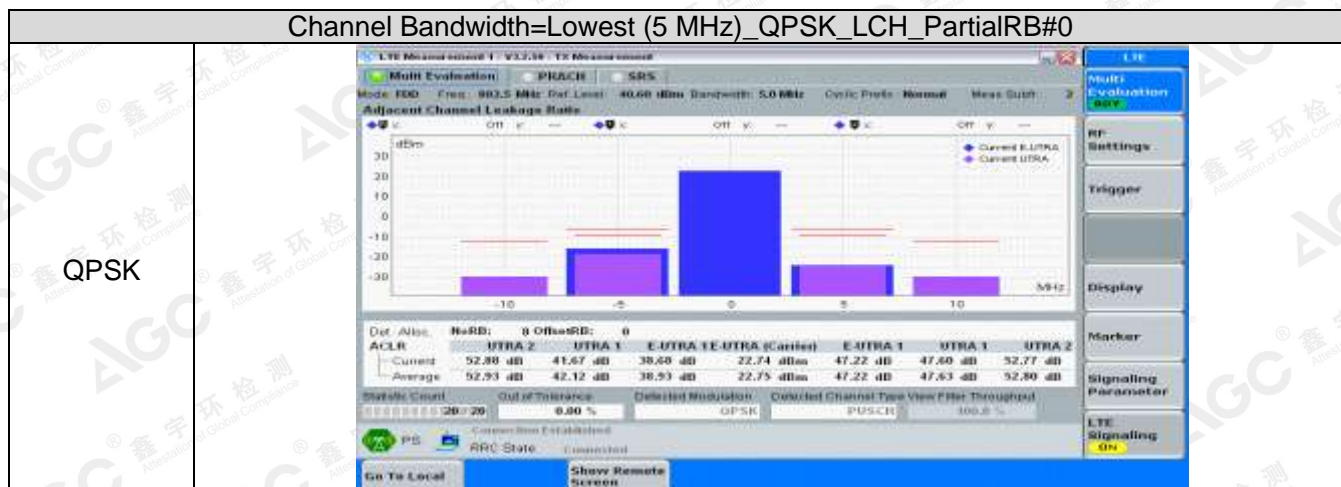
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16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (1.4 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	

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Channel Bandwidth= (5 MHz)

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#0



Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_PartialRB#max



Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullRB#0





Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#0


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QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0</p>

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QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullIRB#0</p>
16QAM	

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Channel Bandwidth=Highest (10 MHz)

Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullIRB#0

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0

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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0</p>

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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0</p>

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5. Transmitter Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Lowest (1.4 MHz)

Channel Bandwidth=Lowest (1.4 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	1.4 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (5 MHz)

Channel Bandwidth= (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (10 MHz)

Channel Bandwidth=Highest (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass

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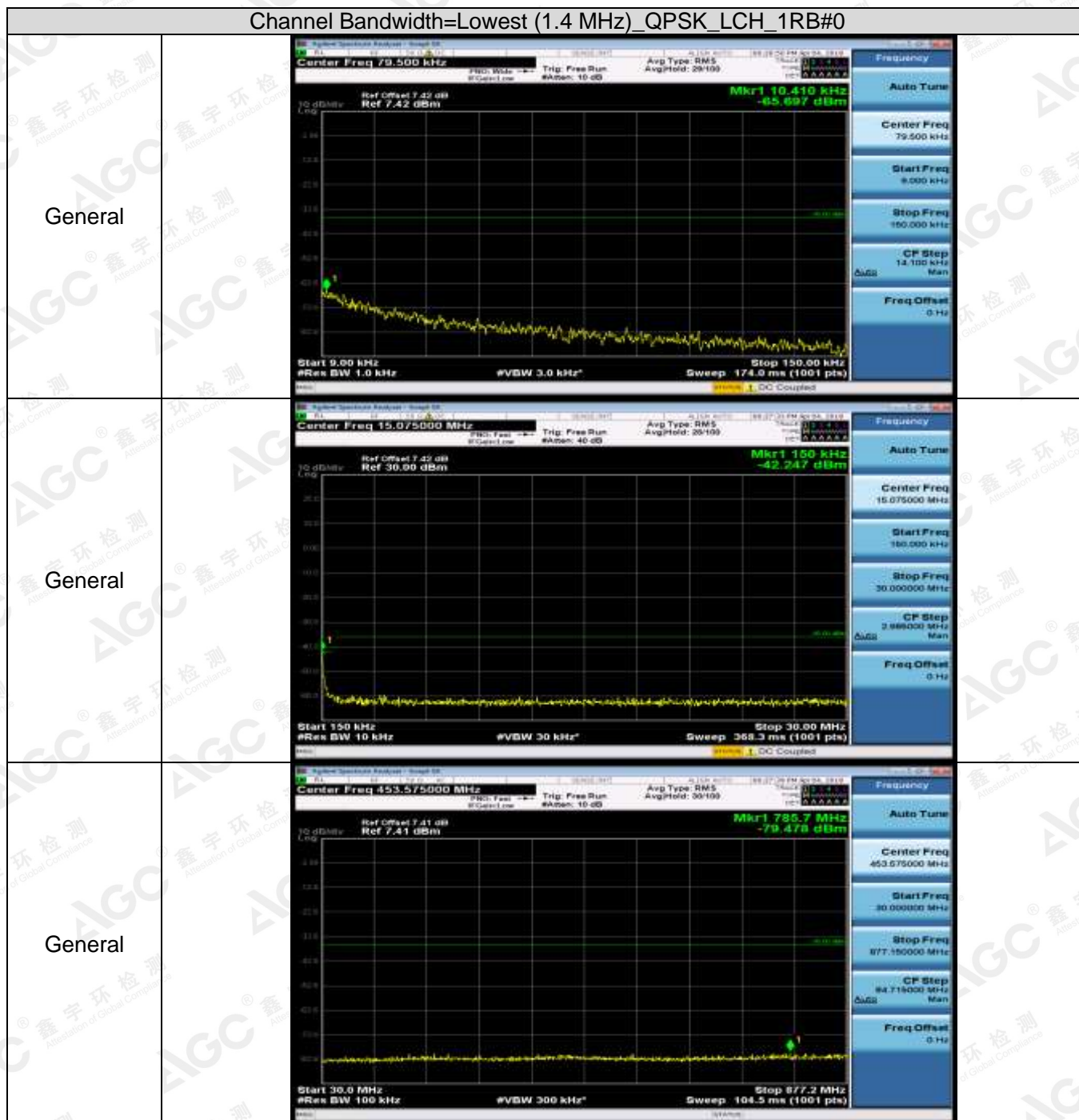
			Mid range	Full	0	PUMAX	Pass
				1	0	PUMAX	Pass
					max	PUMAX	Pass
			High range	Full	0	PUMAX	Pass
				1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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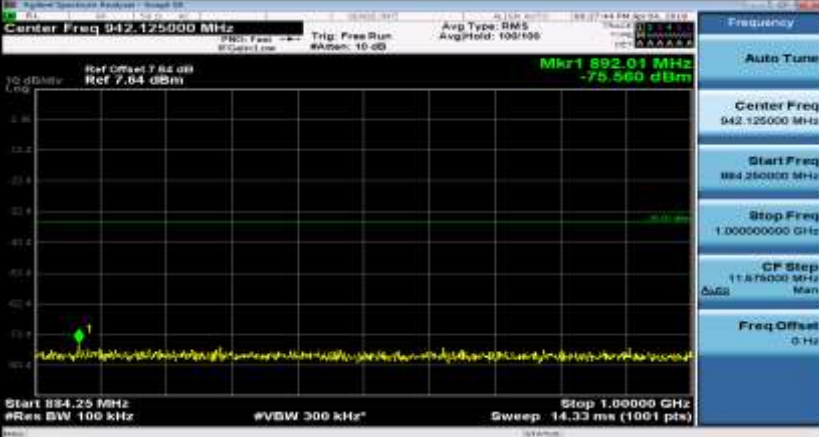


Test Graphs

NTNV

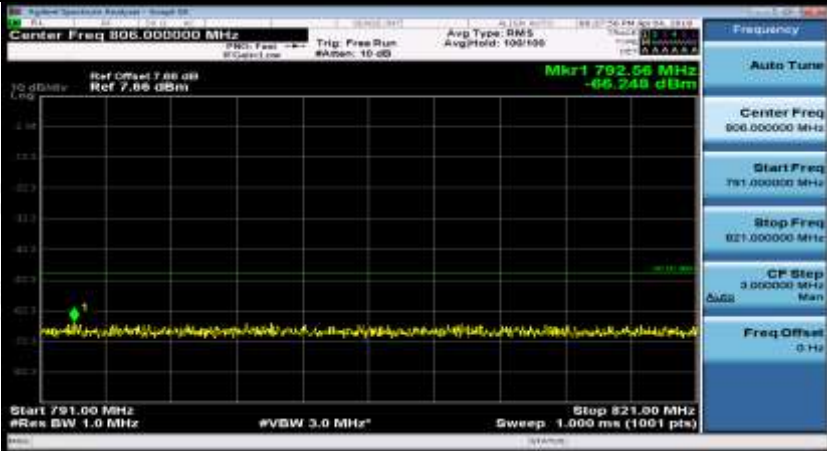
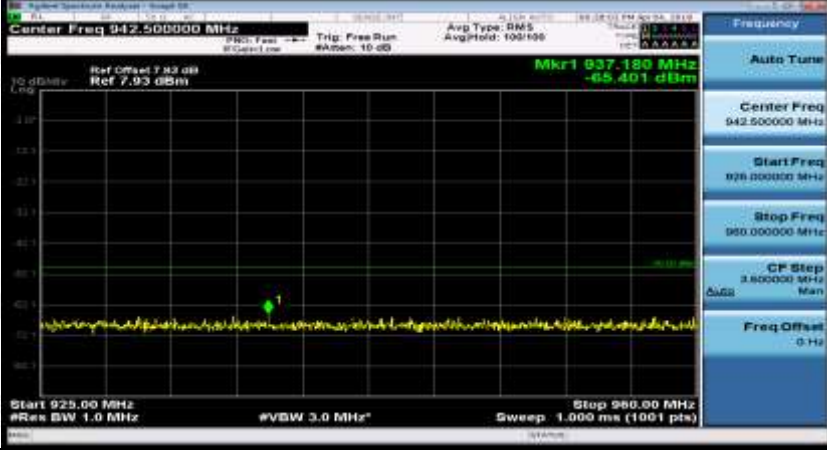
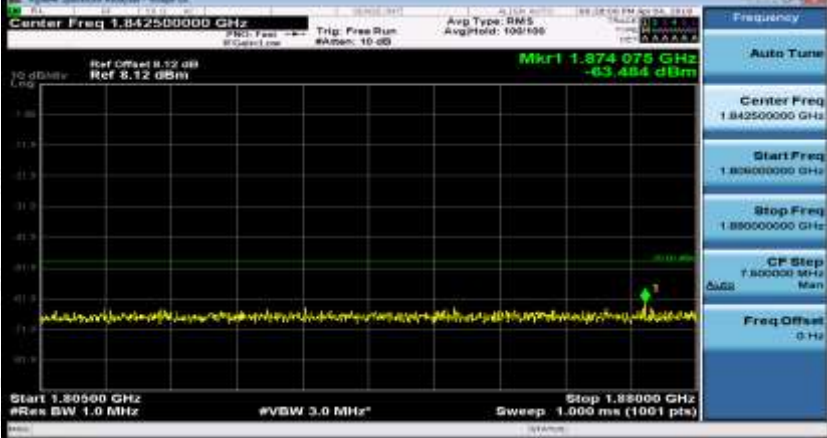
Channel Bandwidth=Lowest (1.4 MHz)



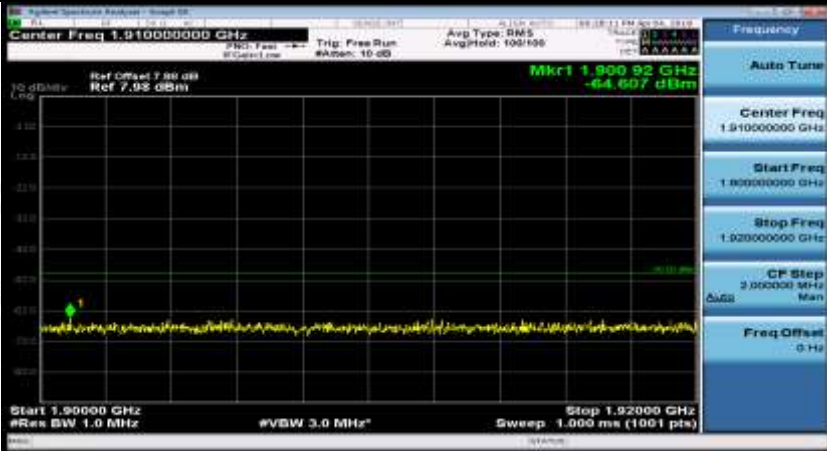
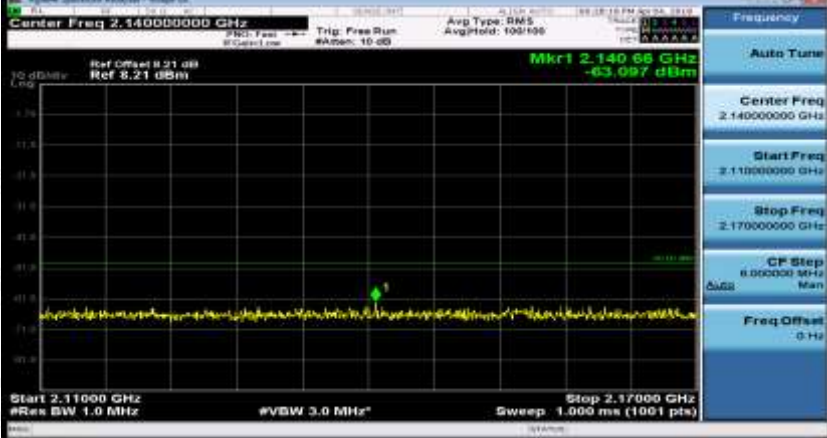
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General			
General			
General			

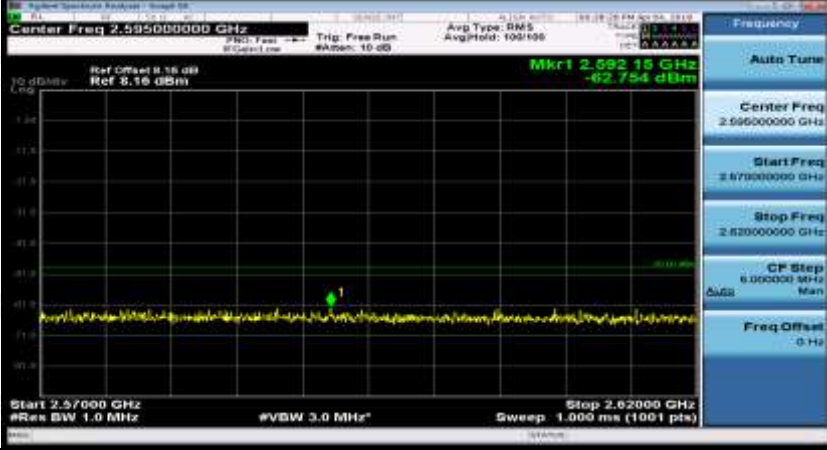
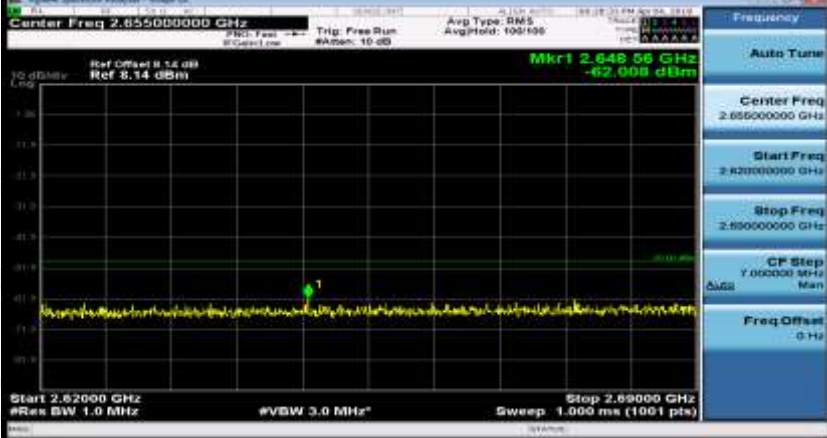
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Co-existence	
Co-existence	
Co-existence	

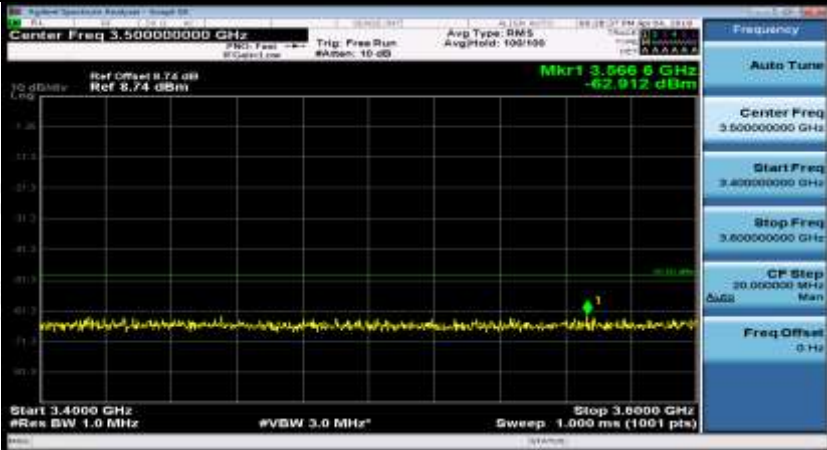
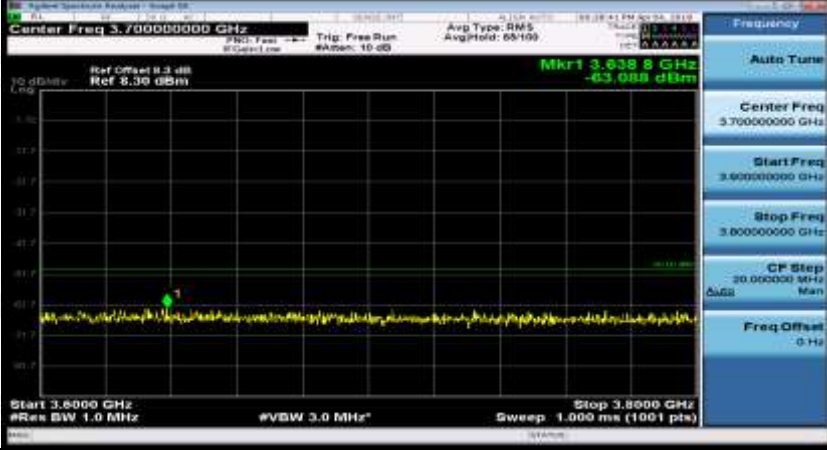
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

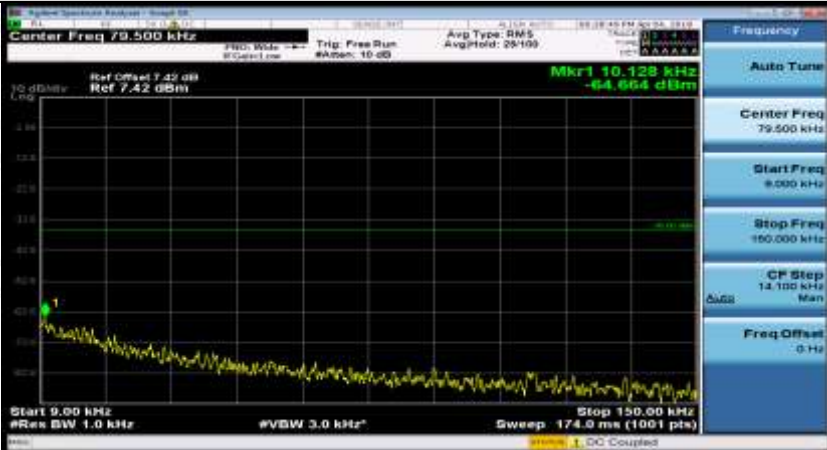
Co-existence	
Co-existence	
Co-existence	

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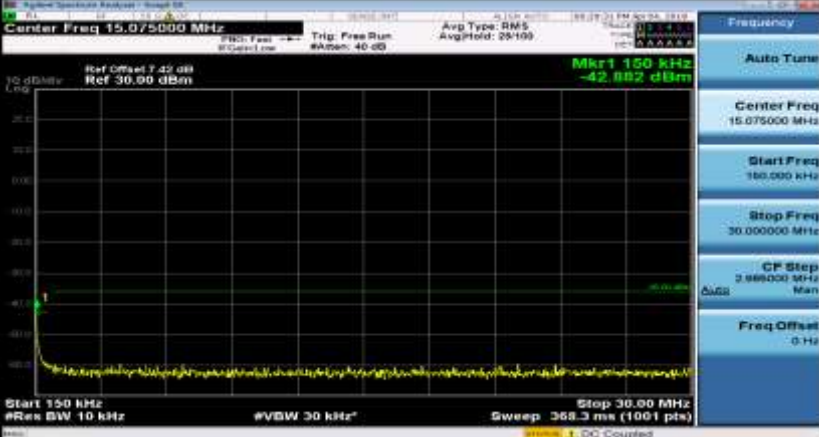
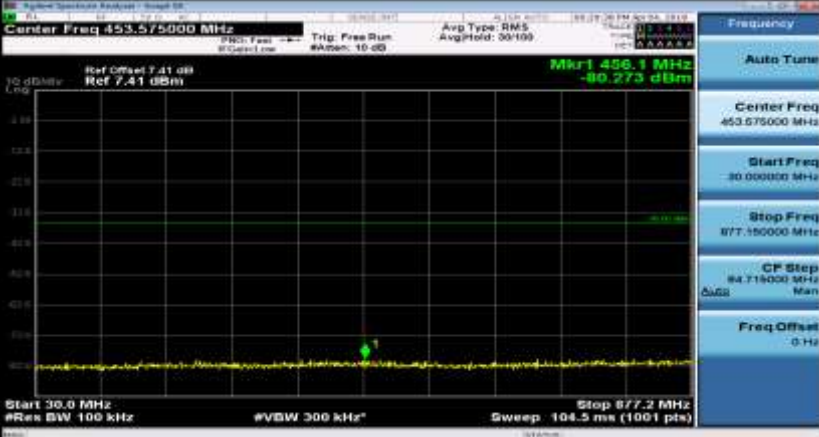
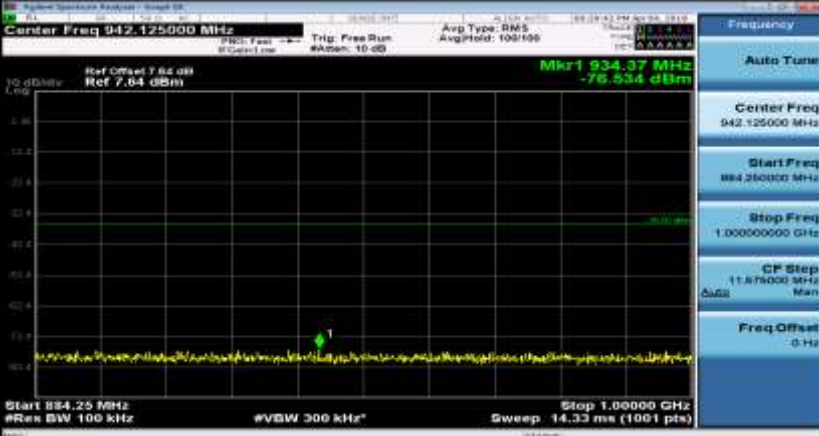
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_1RB#max	
General	

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General			
General			
General			

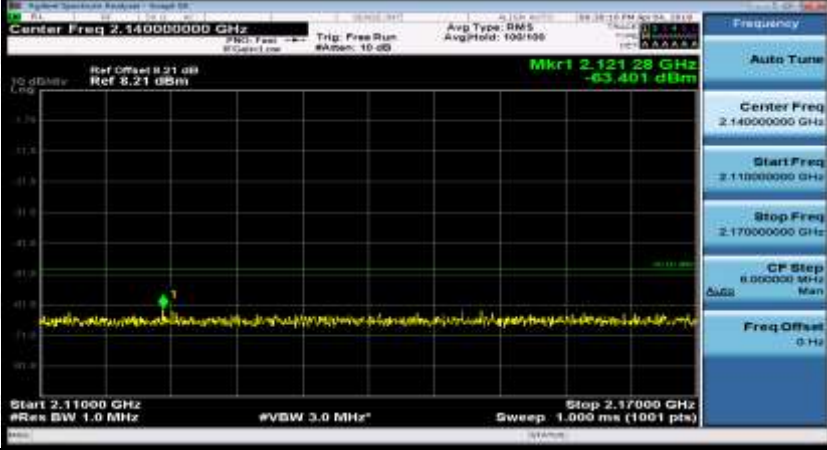
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General			
General			
Co-existence			

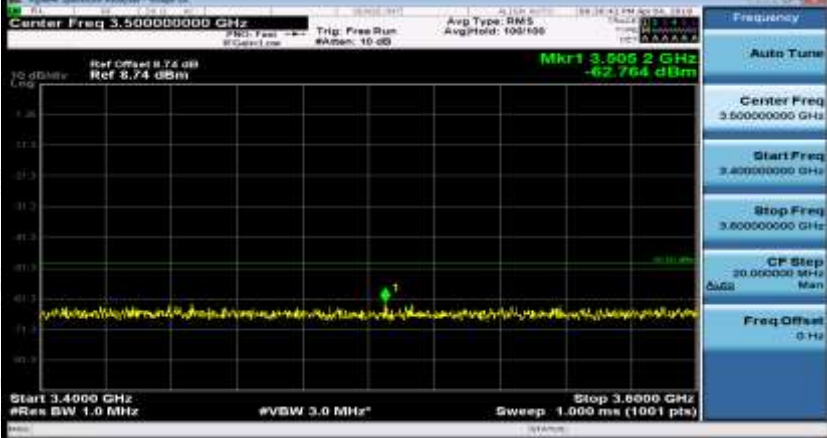
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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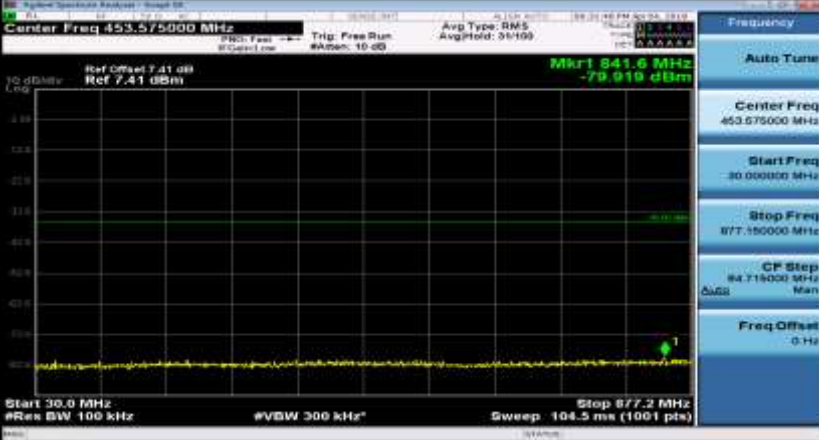
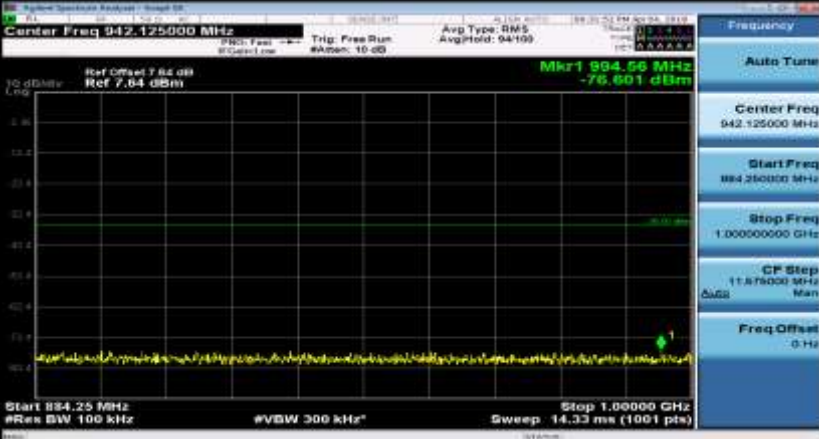

Co-existence	
Co-existence	
Co-existence	

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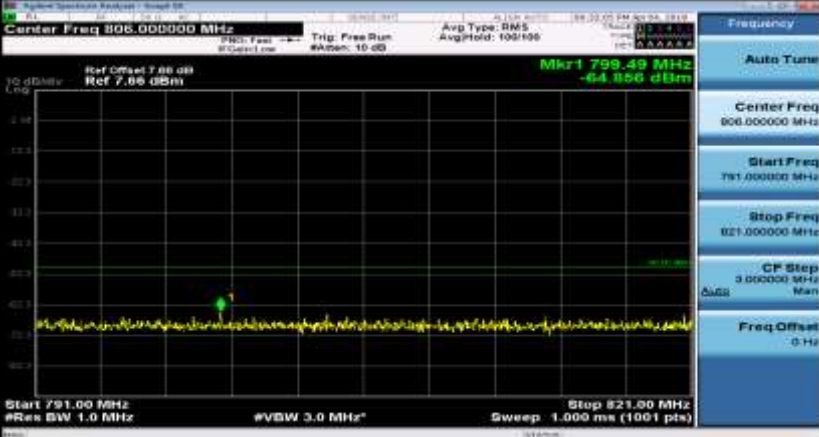

Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_LCH_FullIRB#0	
General	
General	

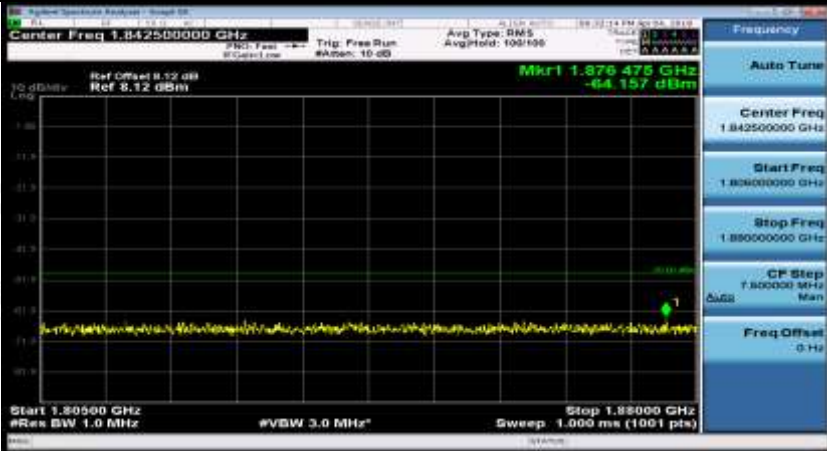
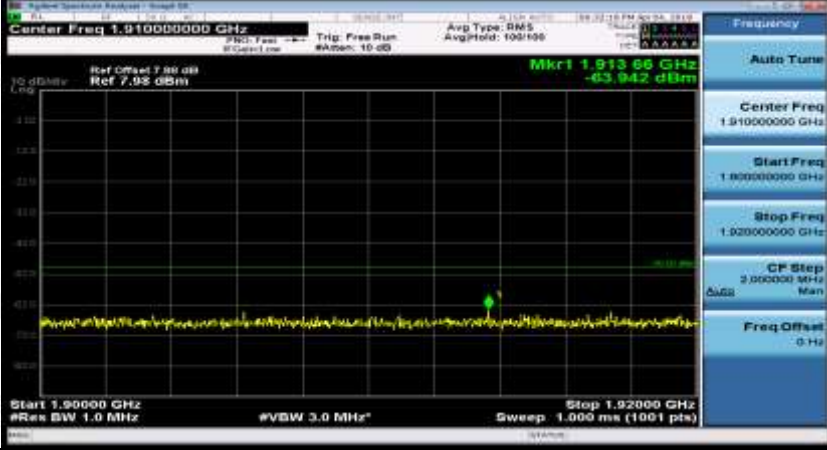

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General			
General			
General			

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General			
Co-existence			
Co-existence			


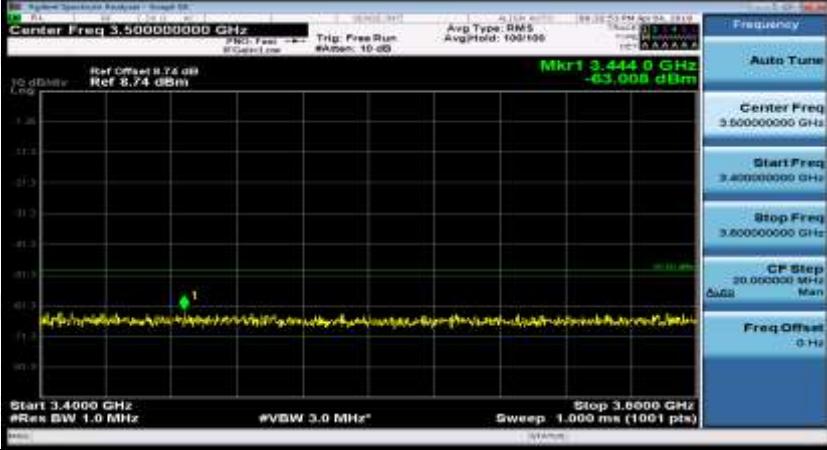

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Co-existence	
Co-existence	
Co-existence	

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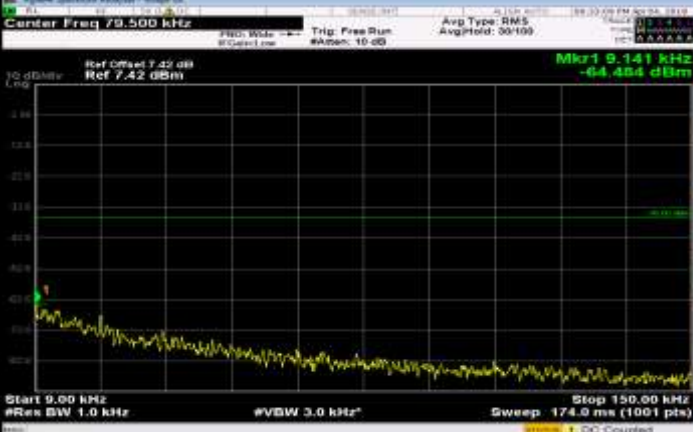

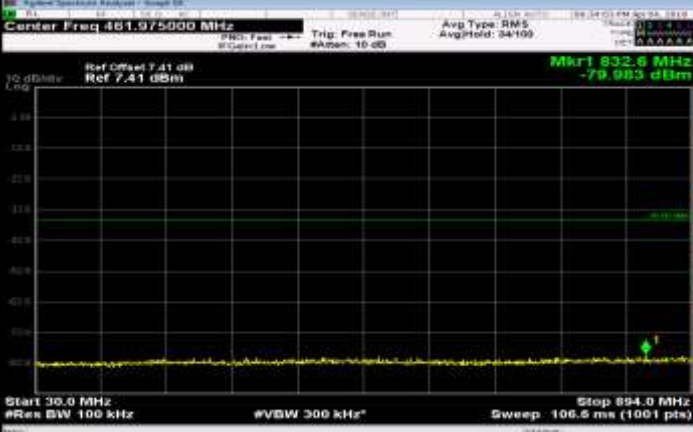
Co-existence	
Co-existence	
Co-existence	

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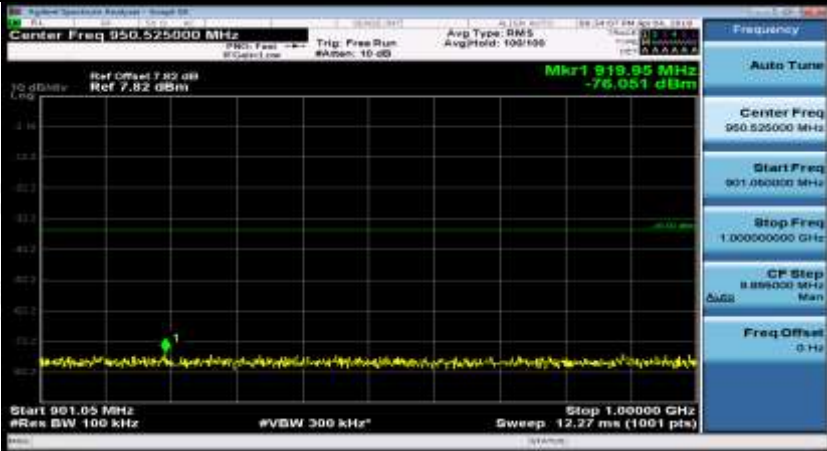
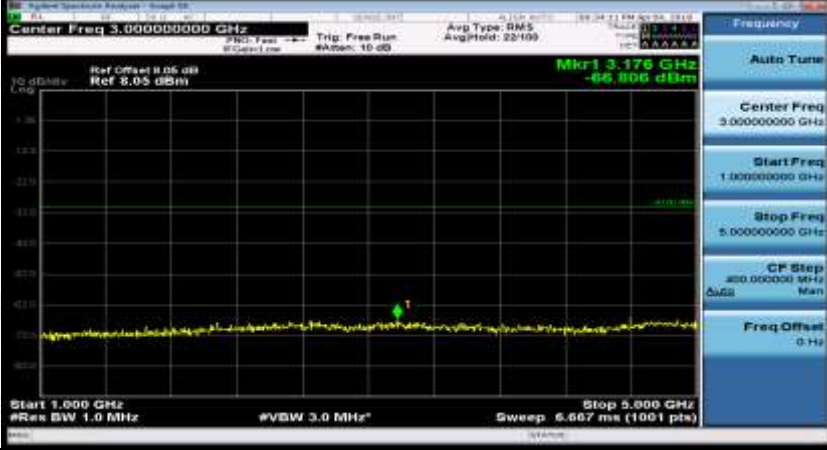

Co-existence	
Co-existence	
Co-existence	
Additional	NA

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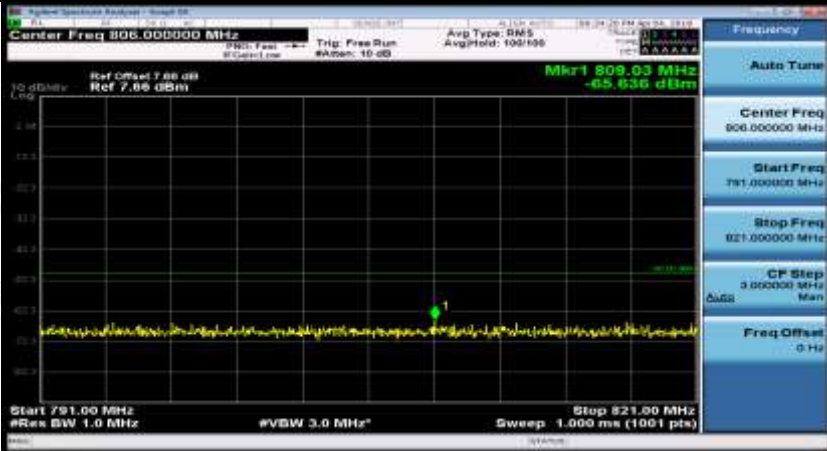
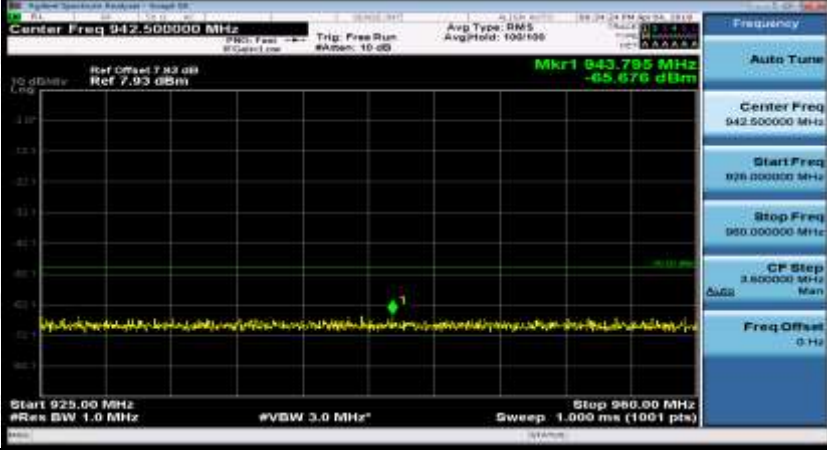
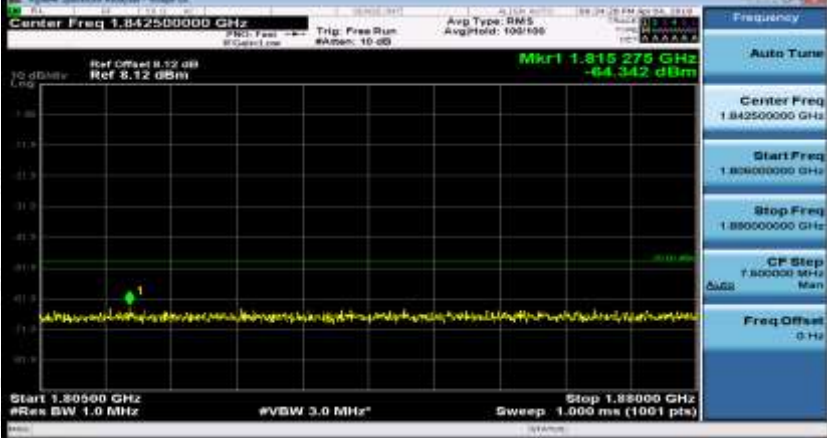
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_1RB#0

General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 79.500 kHz</p> <p>Start Freq 8.000 kHz</p> <p>Stop Freq 150.000 kHz</p> <p>CF Step 14.100 kHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 15.075000 MHz</p> <p>Start Freq 180.000 kHz</p> <p>Stop Freq 30.000000 MHz</p> <p>CF Step 3.999000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 461.975000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 893.950000 MHz</p> <p>CF Step 39.999000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>

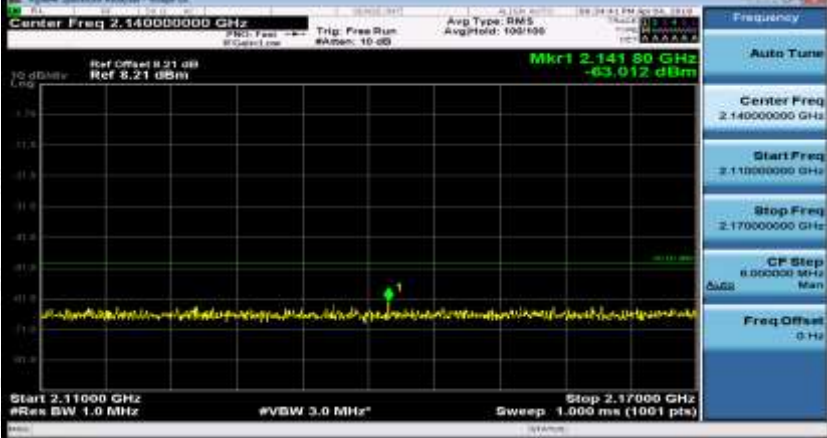
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General	
General	
General	

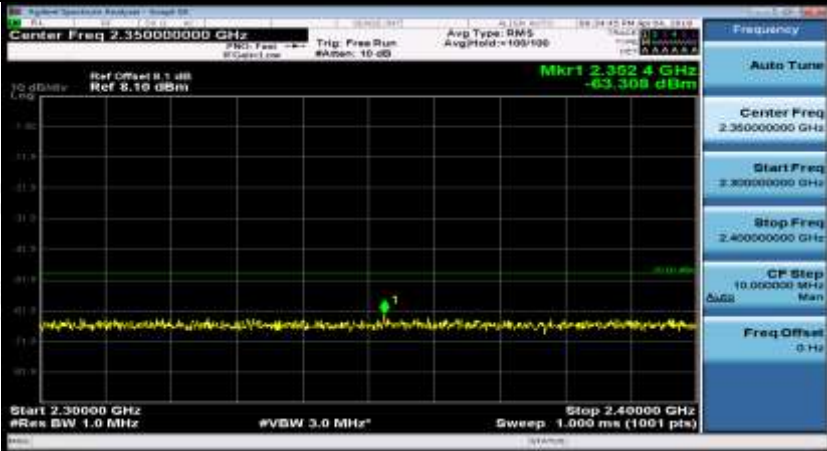
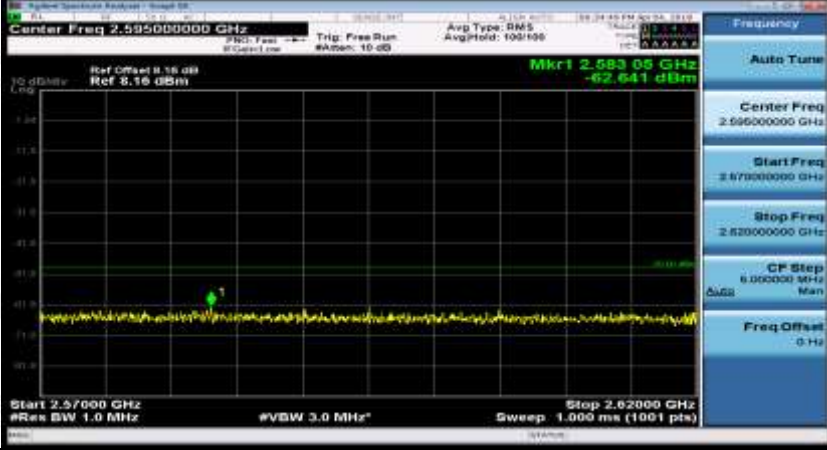
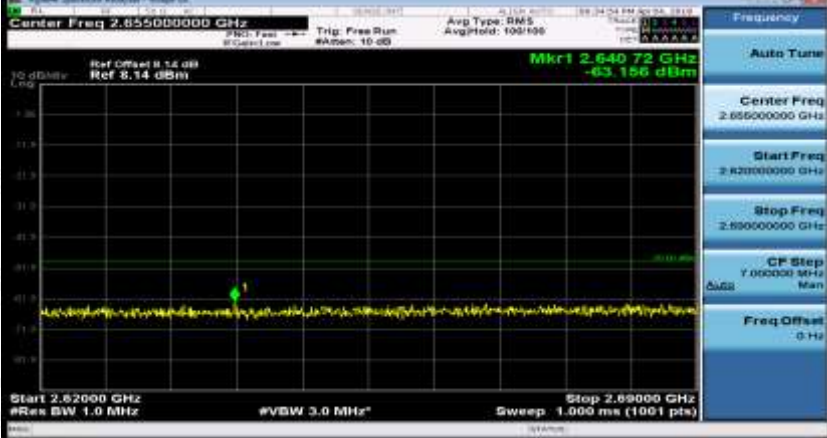
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Co-existence	
Co-existence	
Co-existence	

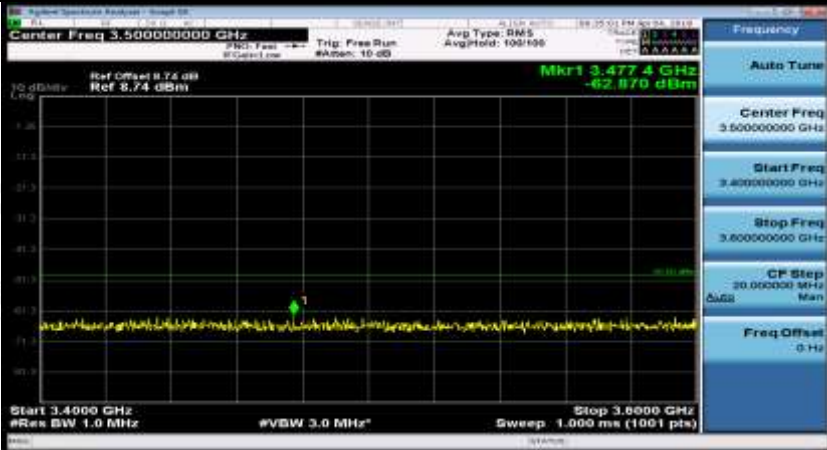
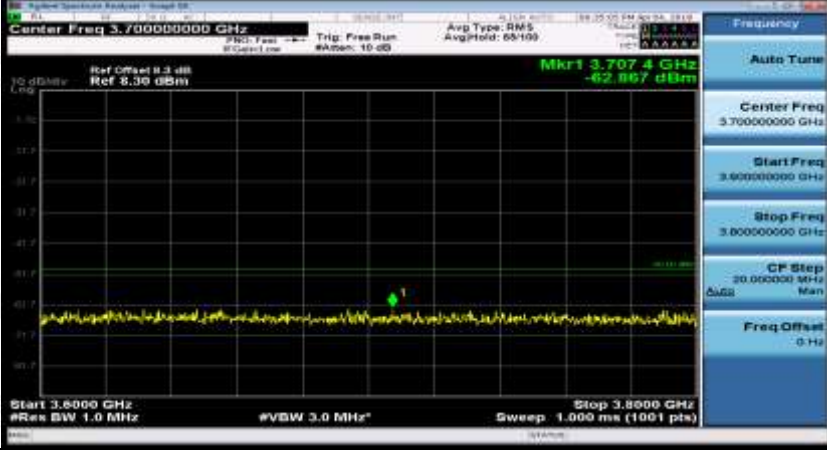
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.


Co-existence	
Co-existence	
Co-existence	

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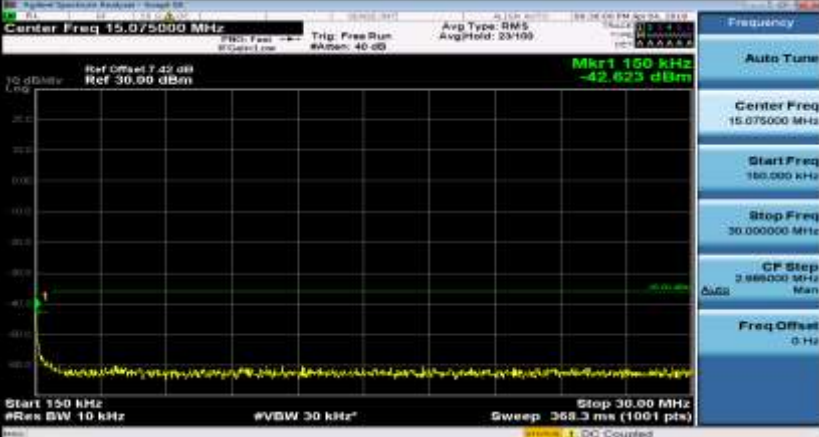
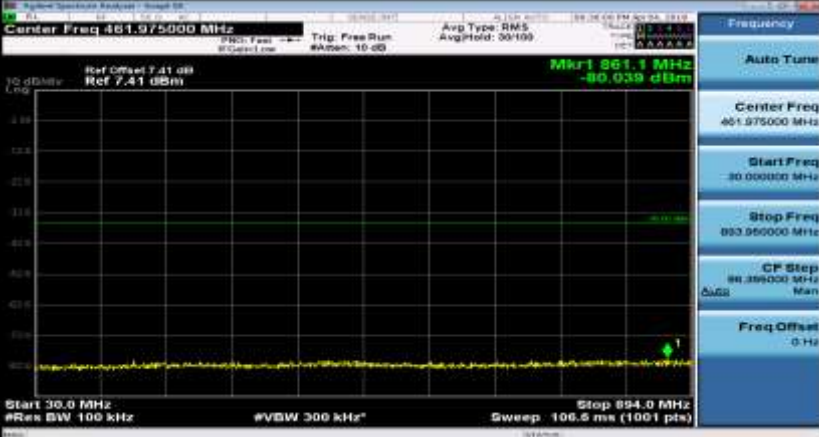

Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_1RB#max	
General	

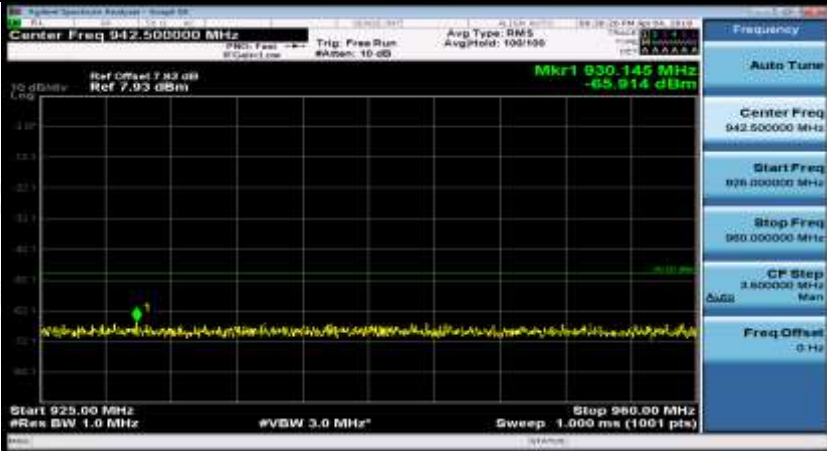
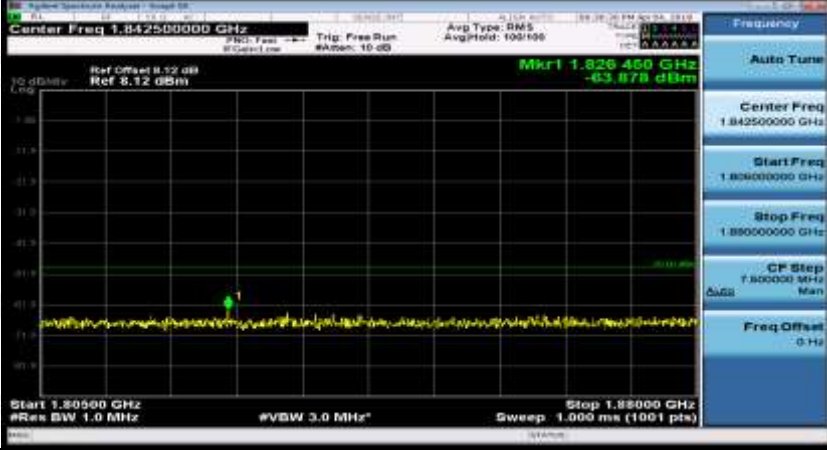
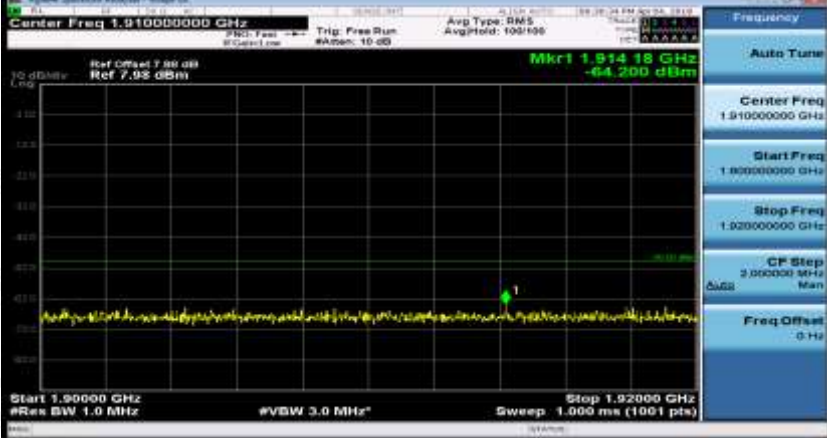
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General			
General			
General			

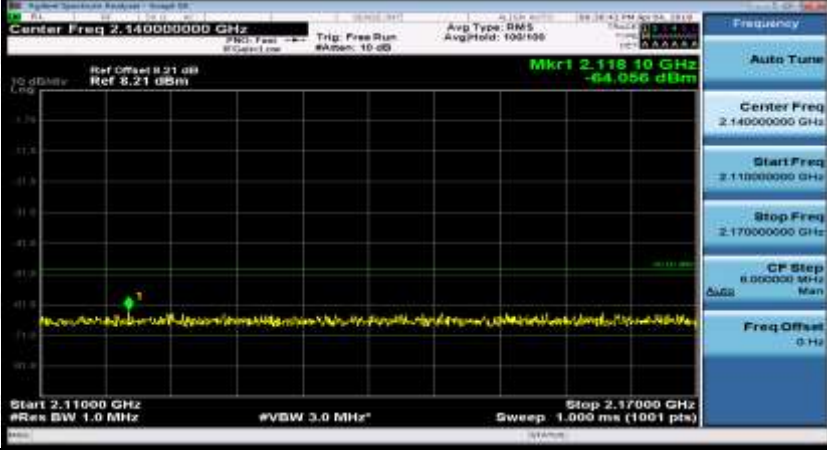
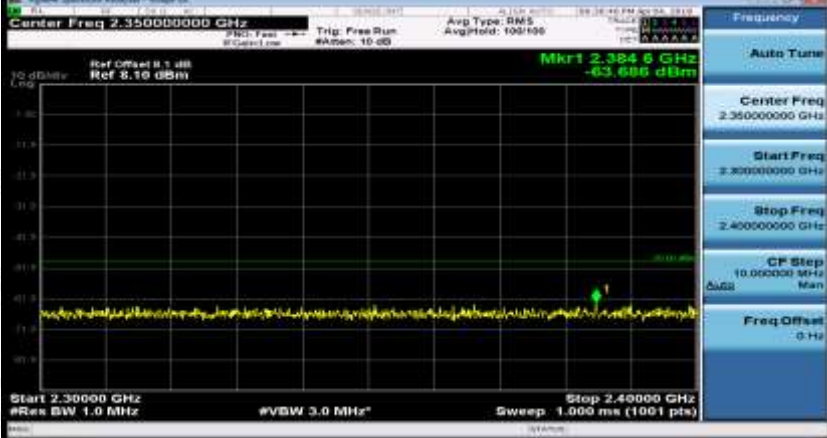
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General			
General			
Co-existence			

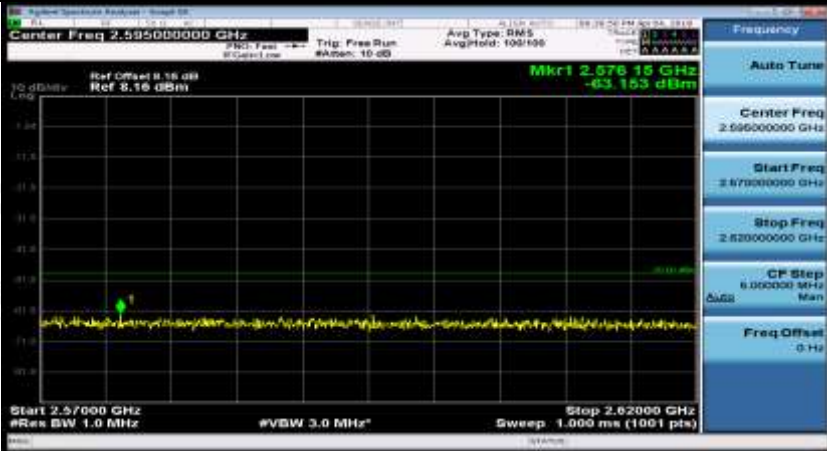
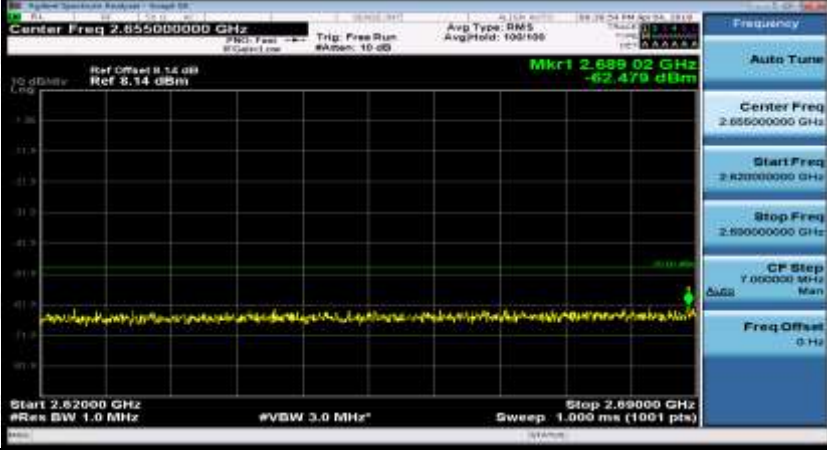
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Co-existence	
Co-existence	
Co-existence	

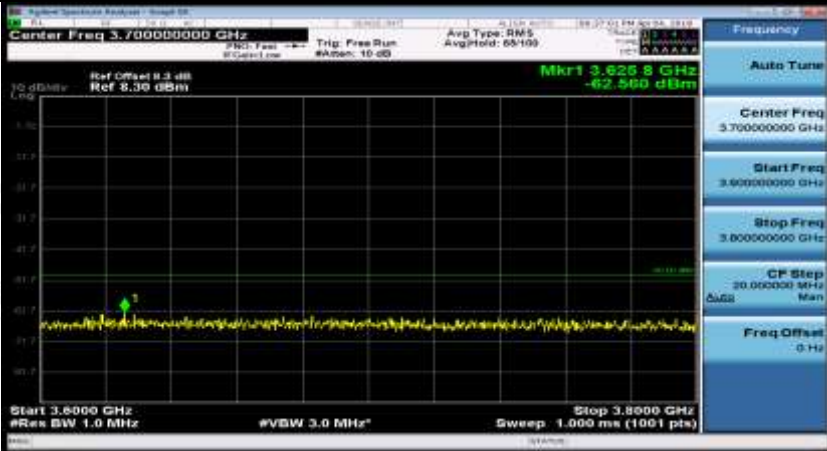
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

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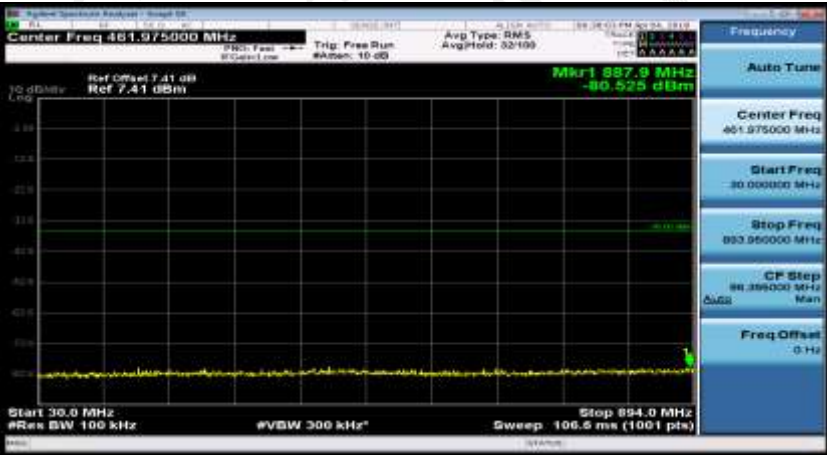
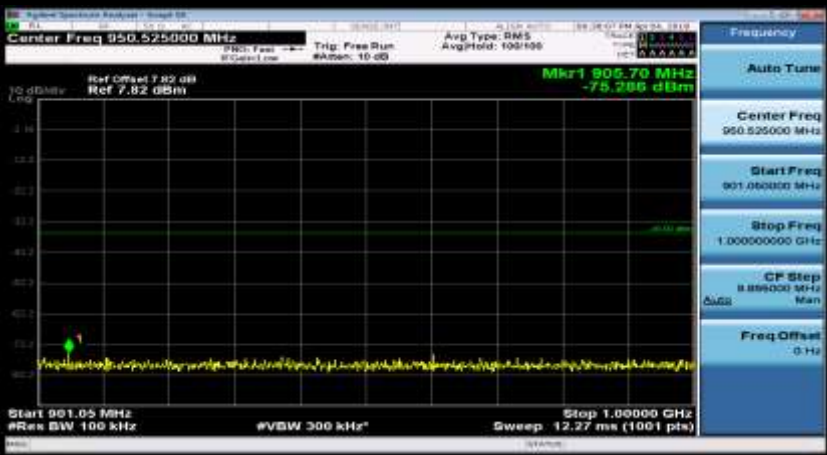

Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_MCH_FullRB#0	
General	
General	

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General	
General	
General	

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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 8.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 775.000000 MHz</p> <p>ΔdBs Man</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 806.000000 MHz</p> <p>Start Freq 751.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>ΔdBs Man</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 942.500000 MHz</p> <p>Start Freq 926.000000 MHz</p> <p>Stop Freq 960.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>ΔdBs Man</p> <p>Freq Offset 0 Hz</p>

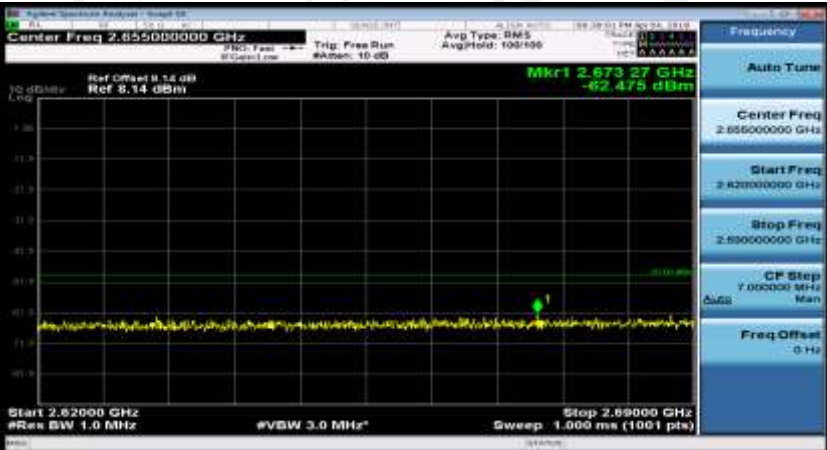
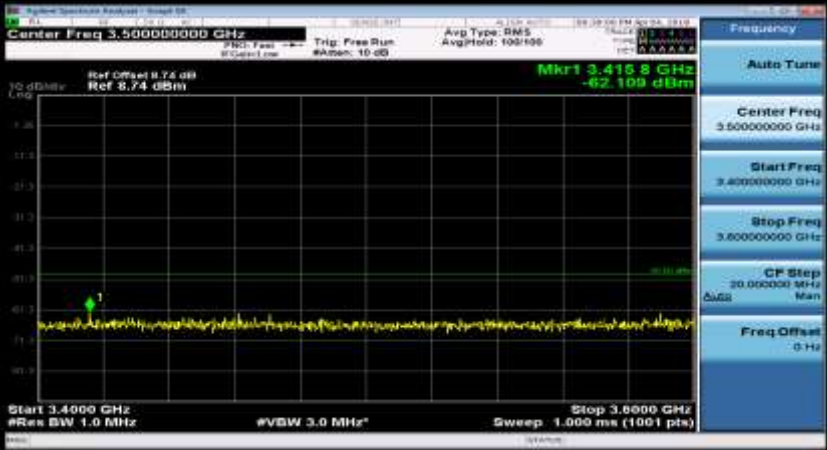
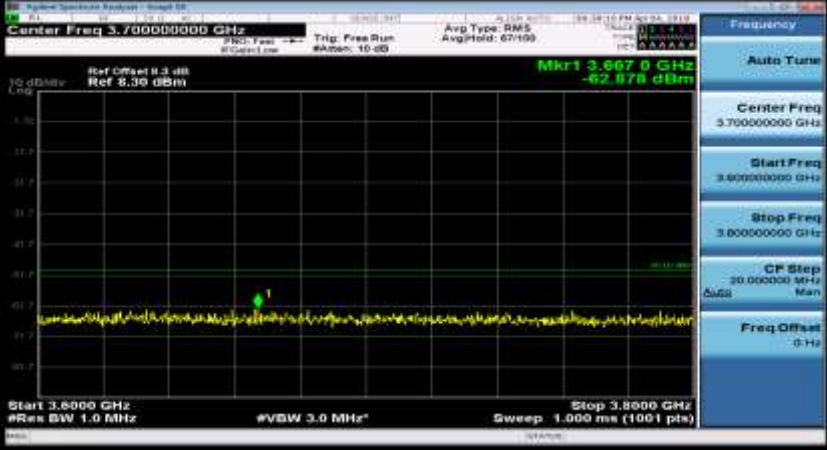
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

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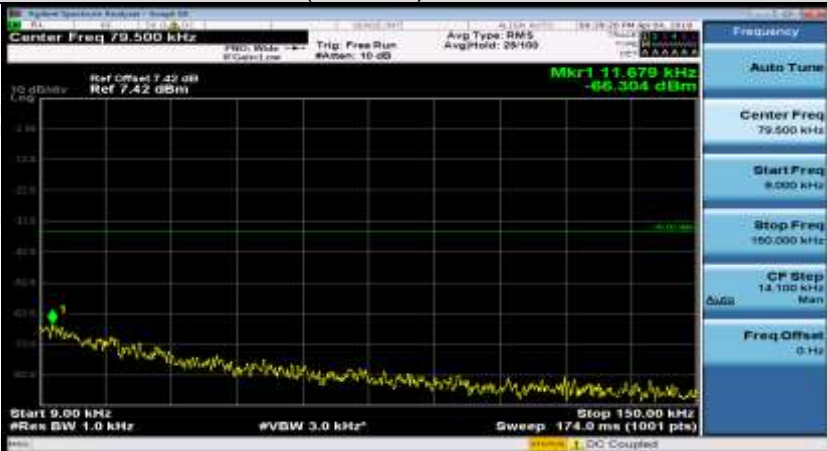

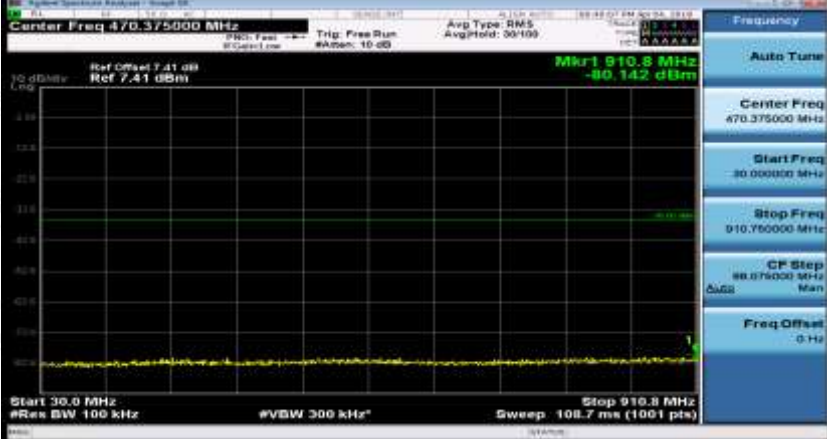
Co-existence	
Co-existence	
Co-existence	

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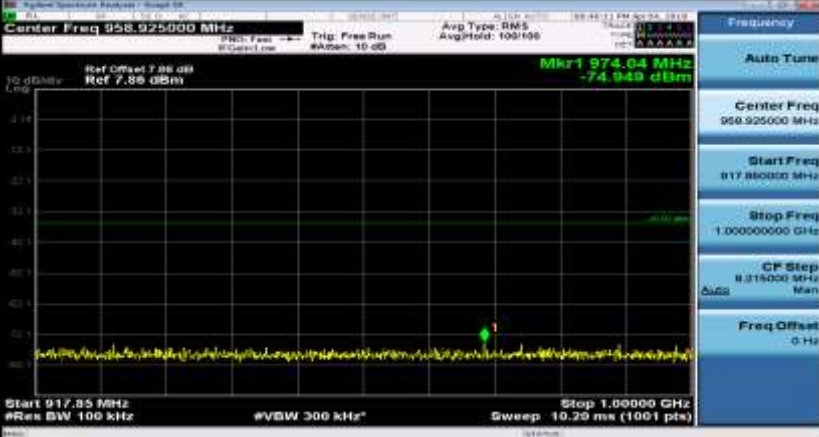


Co-existence	
Co-existence	
Co-existence	
Additional	NA

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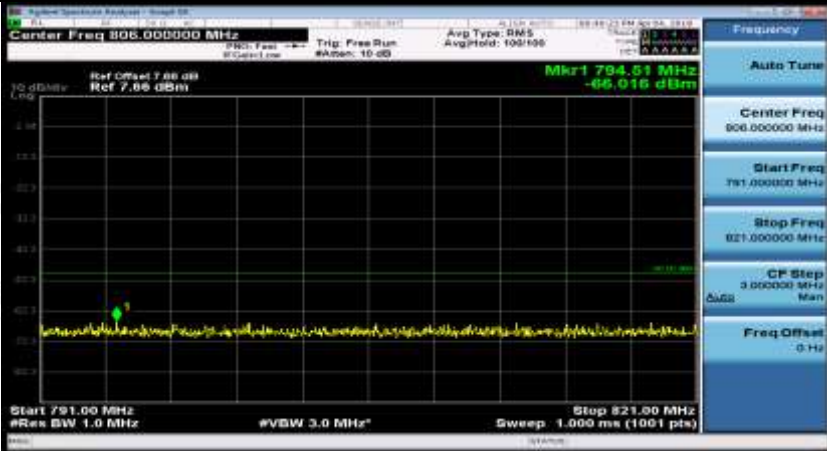
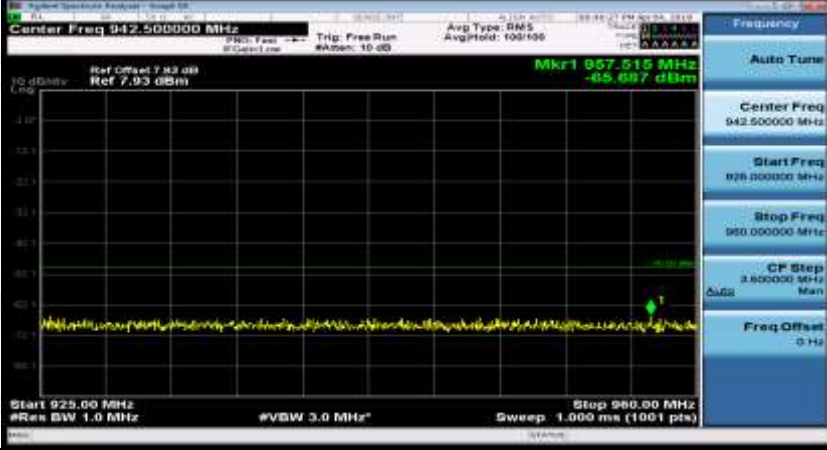
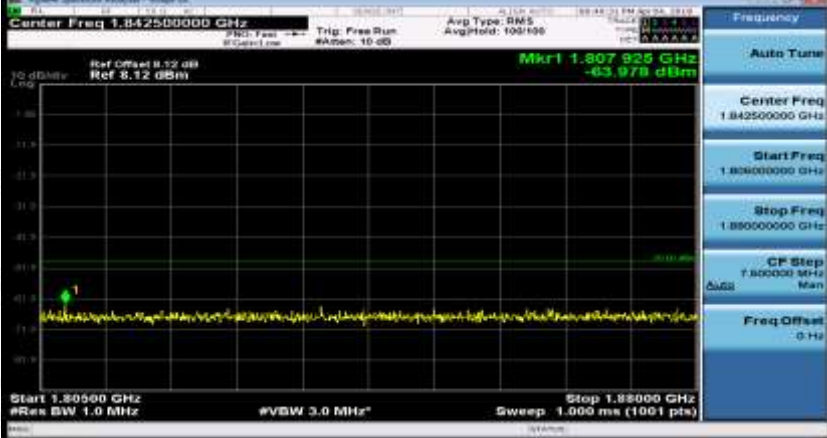
Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_1RB#0

General	
General	
General	

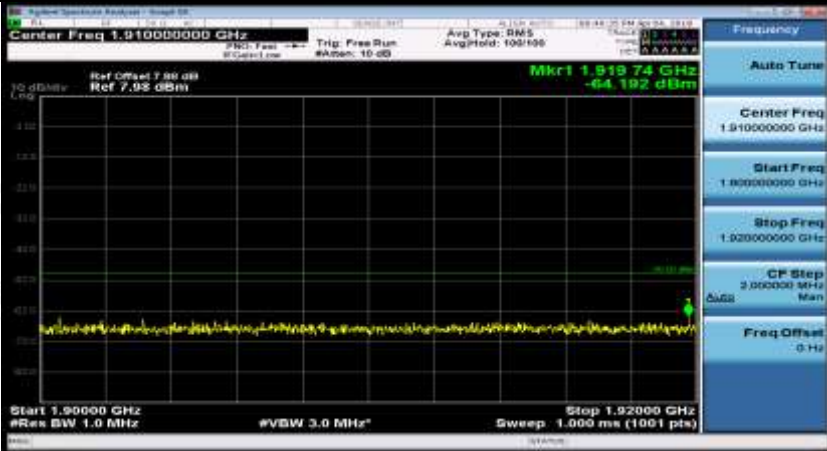
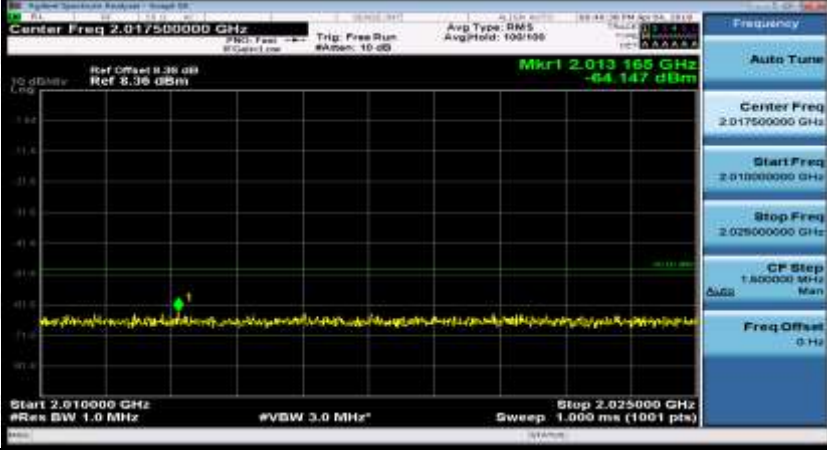
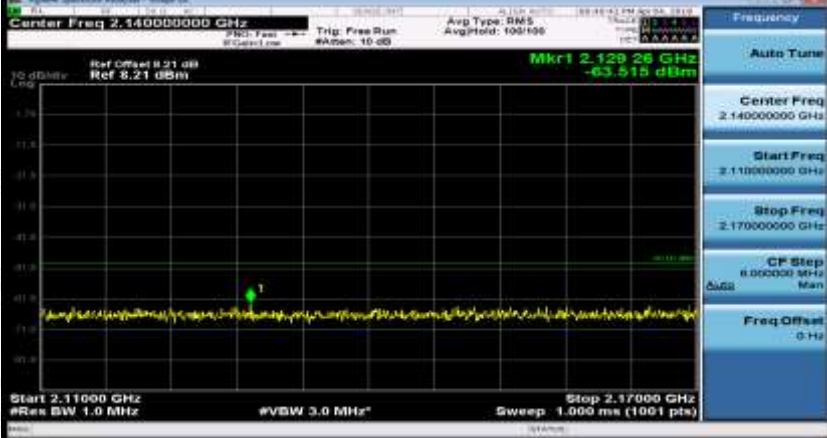
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General			
General			
General			

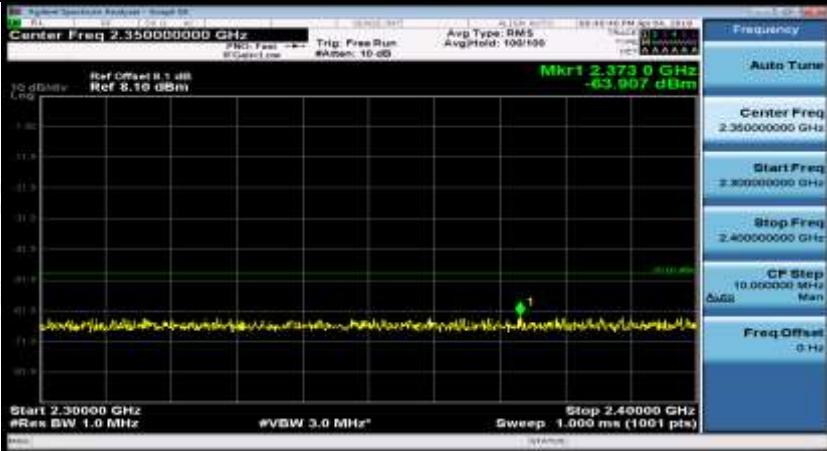


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Co-existence	
Co-existence	
Co-existence	


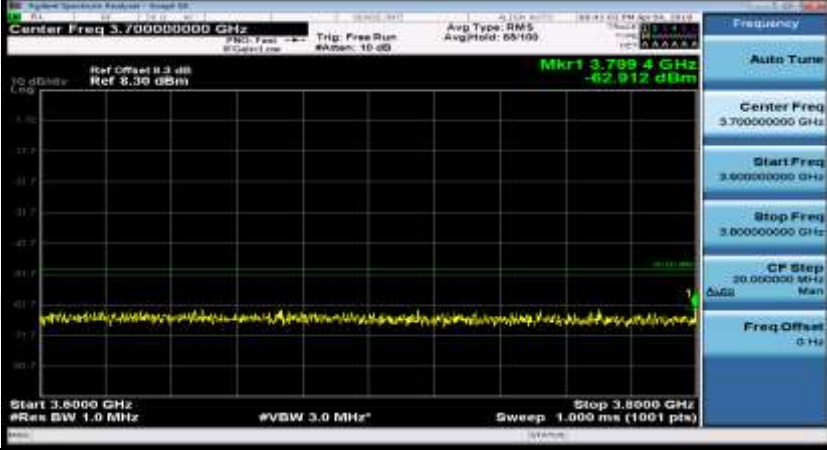
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

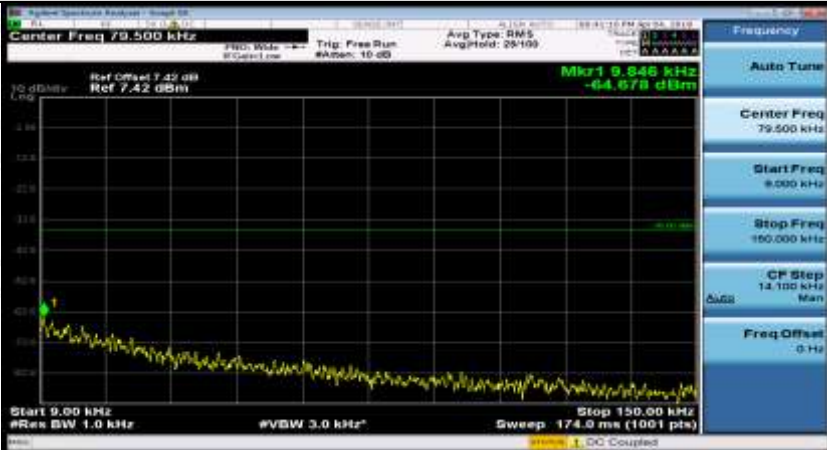
Co-existence	
Co-existence	
Co-existence	

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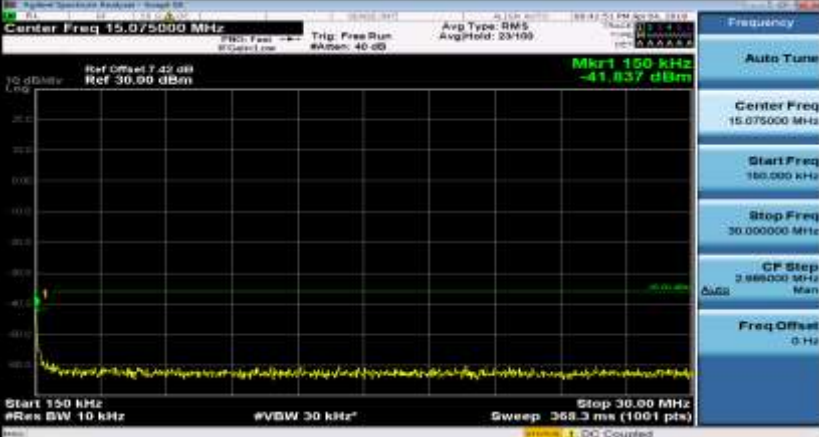
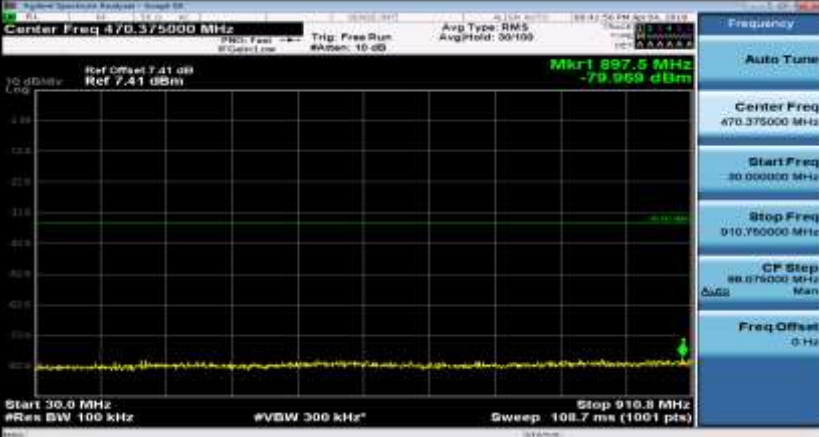
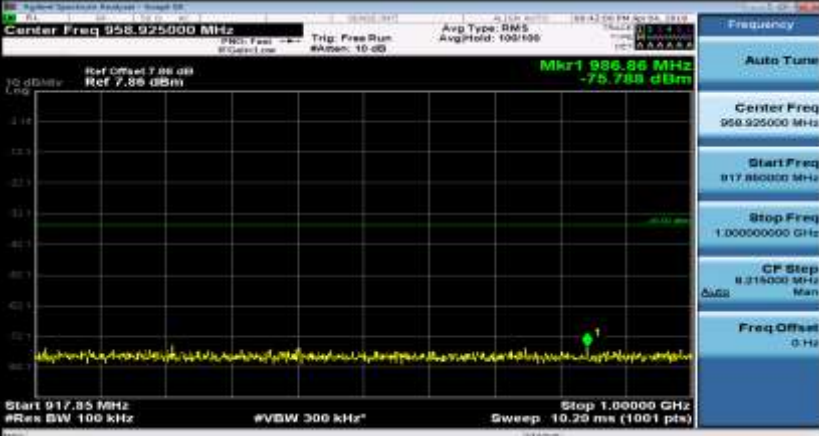
Co-existence	
Co-existence	
Co-existence	

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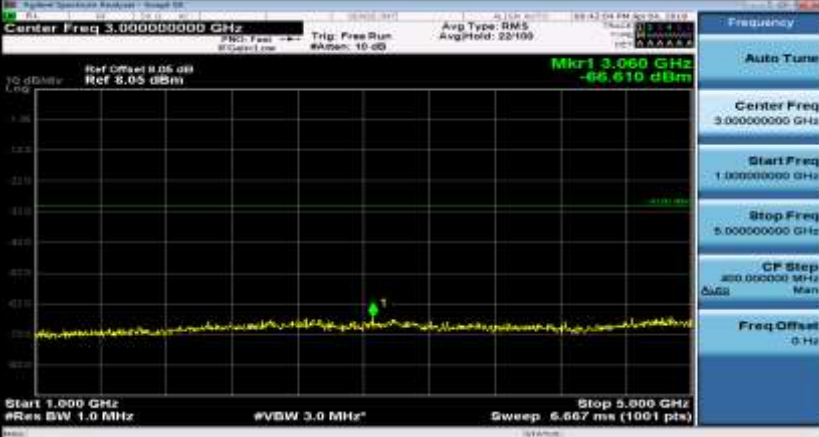

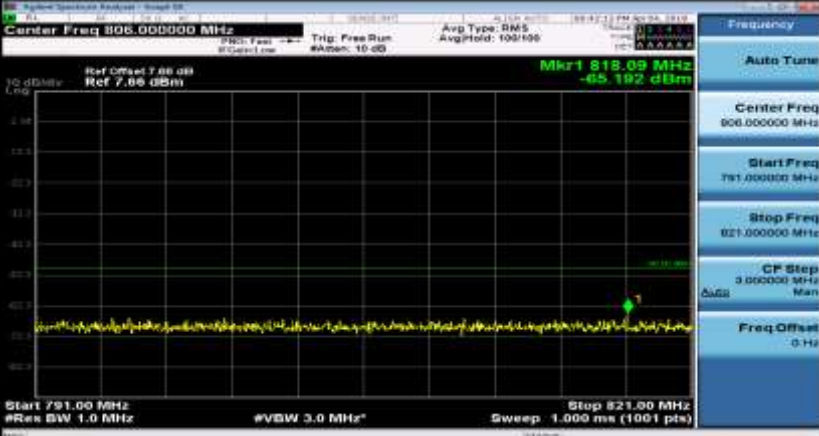
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_1RB#max	
General	

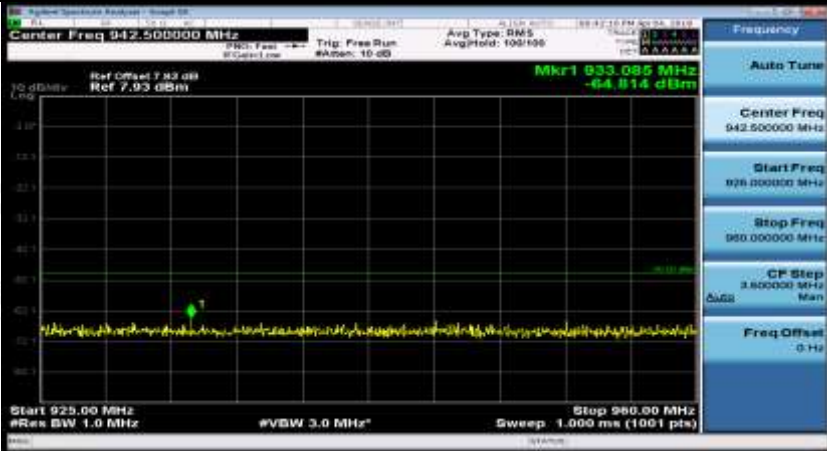
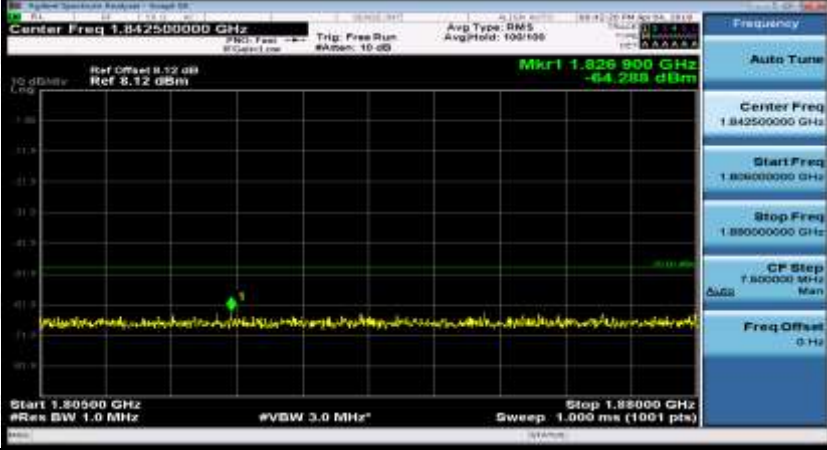
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General			
General			
General			

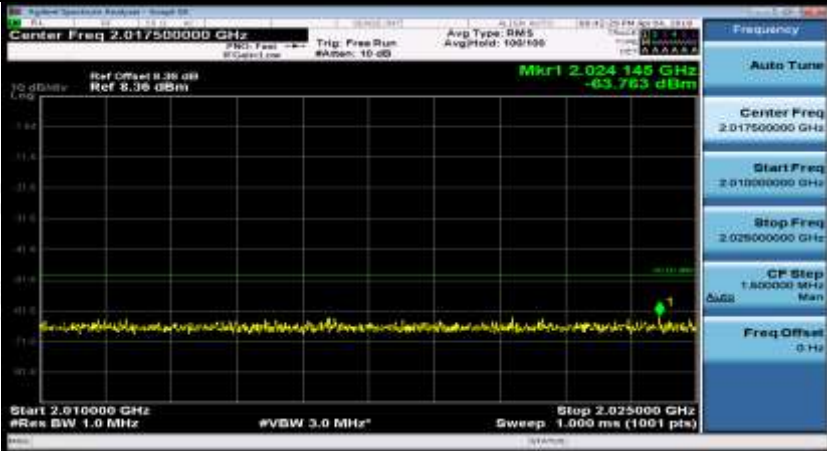
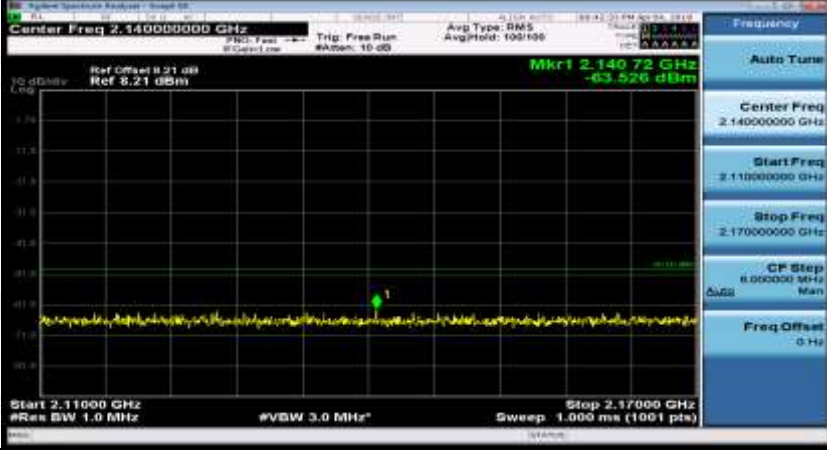
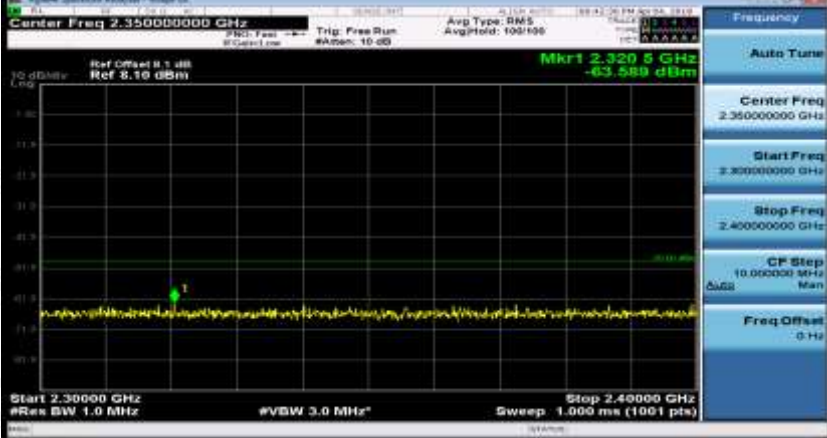
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General			
General			
Co-existence			

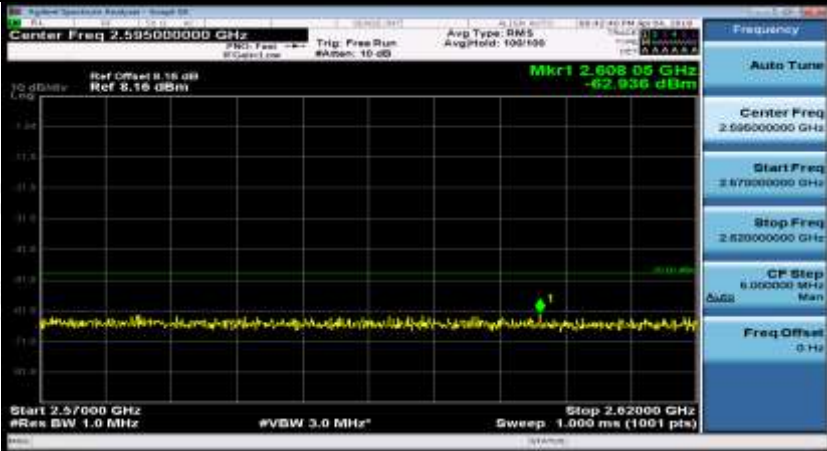

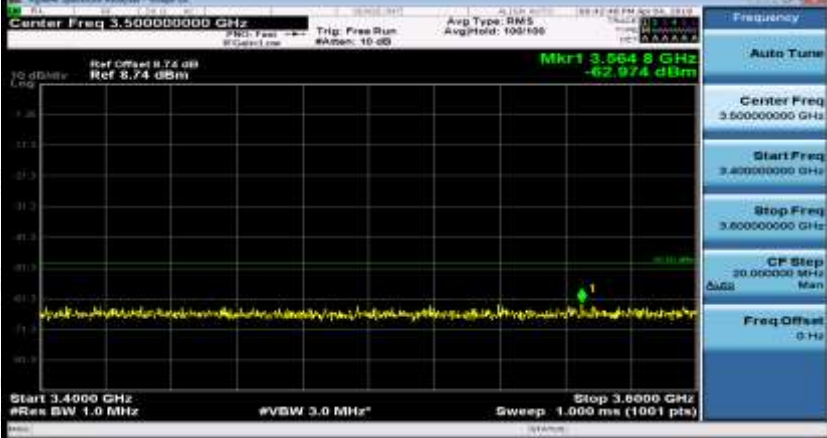
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Co-existence	
Co-existence	
Co-existence	

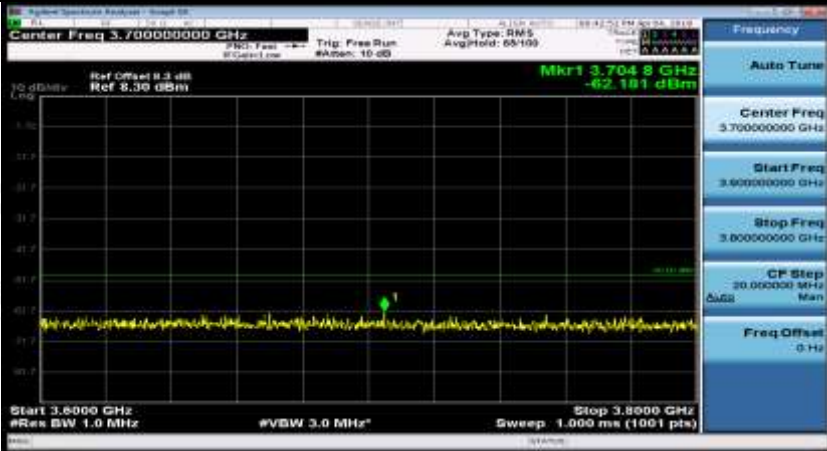
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Co-existence	
Co-existence	
Co-existence	

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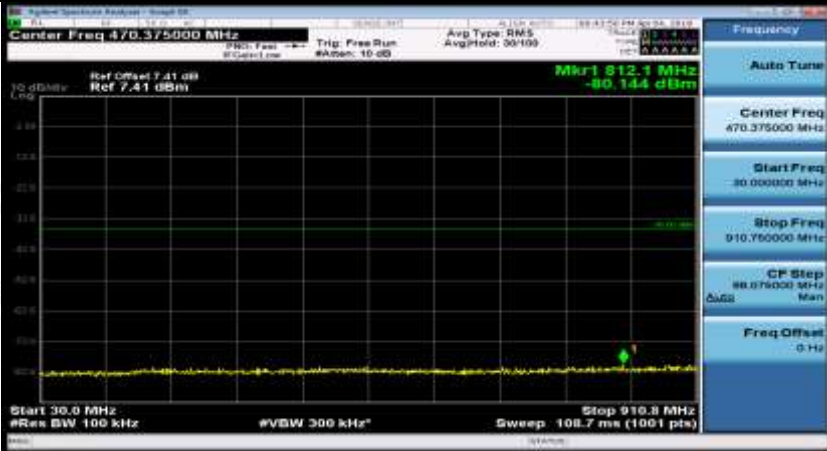
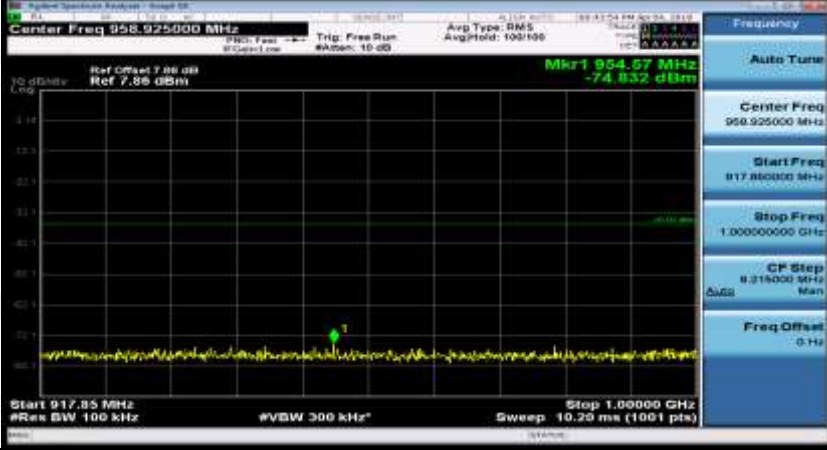
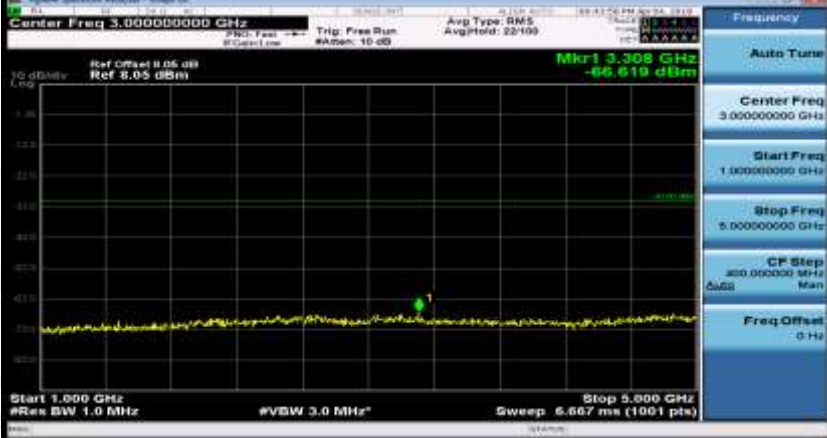
Co-existence	
Co-existence	
Co-existence	

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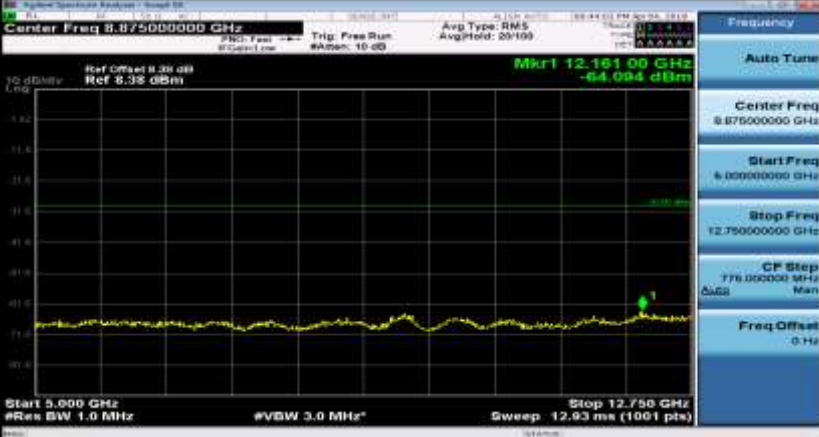
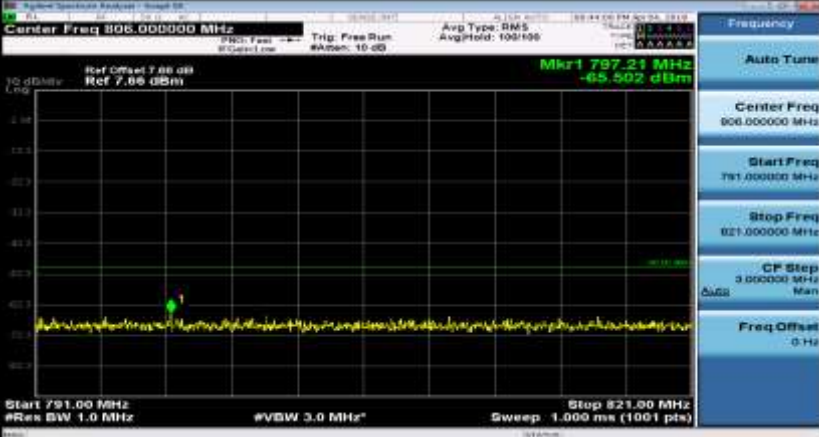
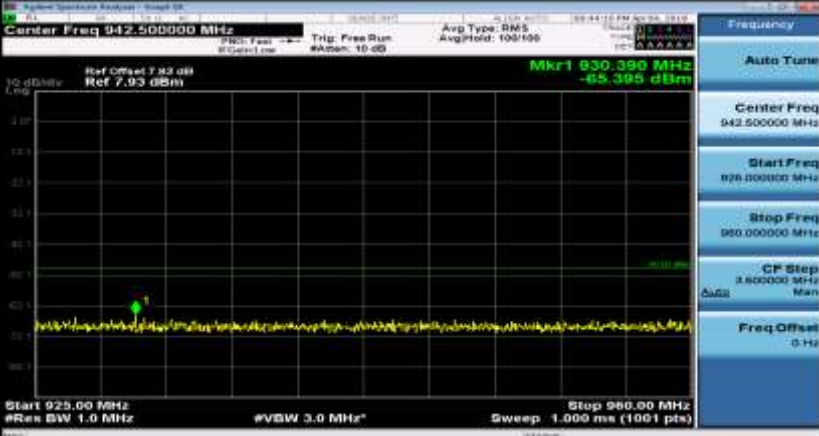
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (1.4 MHz)_QPSK_HCH_FullIRB#0	
General	
General	

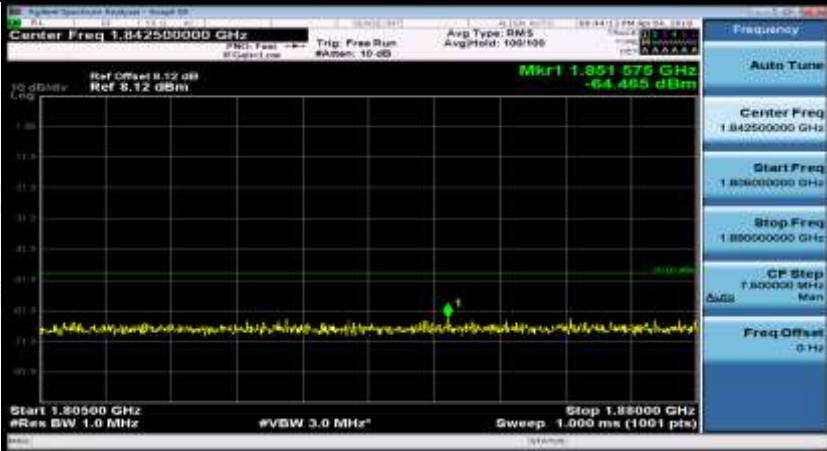
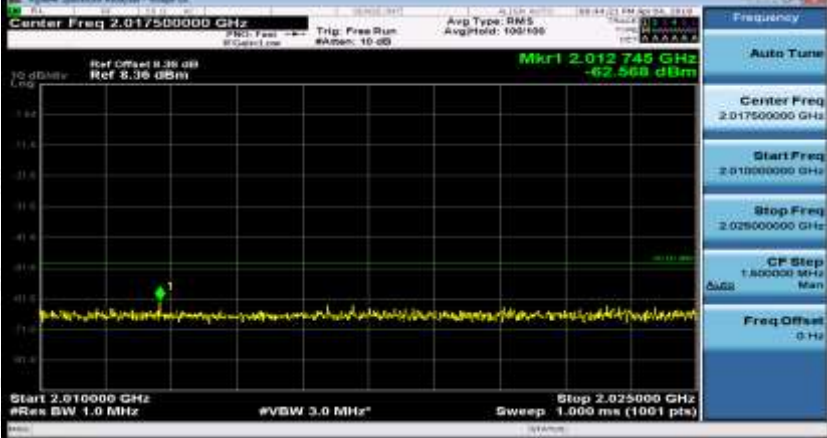
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General	
General	
General	

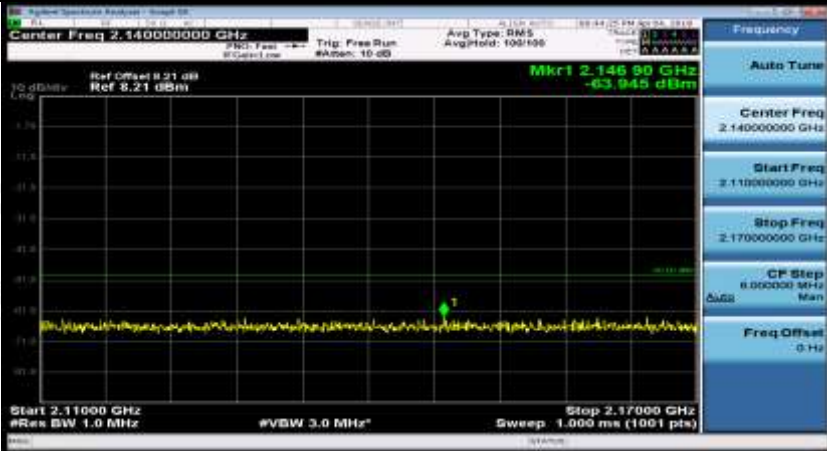
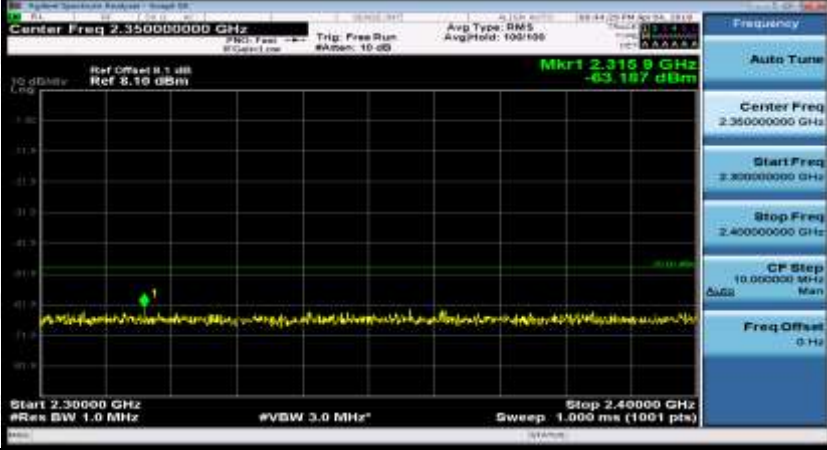

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General			
Co-existence			
Co-existence			

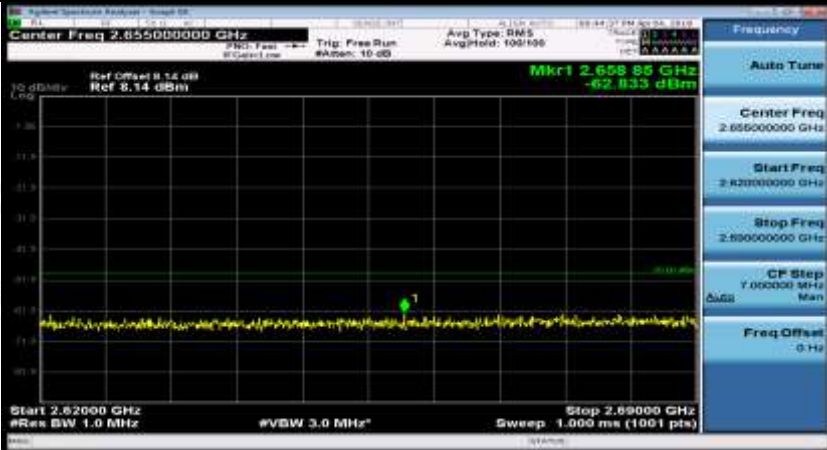
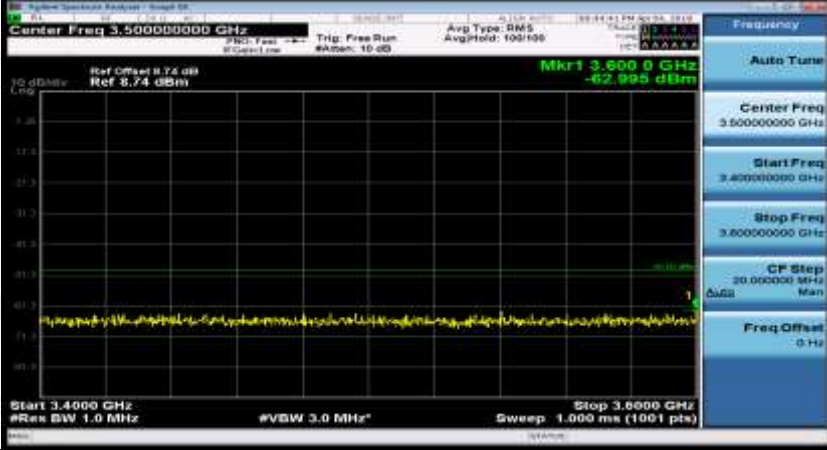

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Co-existence	
Co-existence	
Co-existence	

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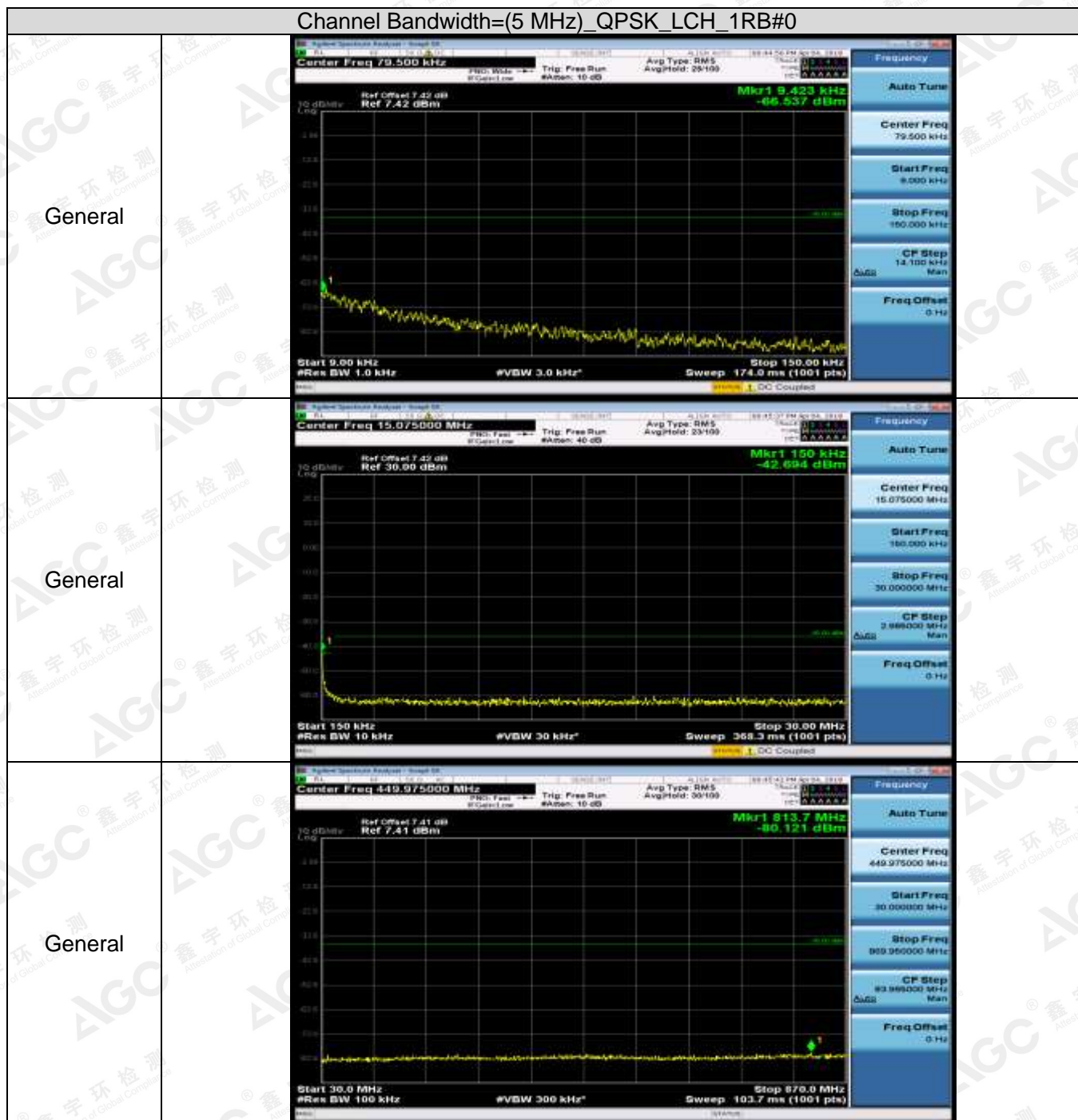
Co-existence	
Co-existence	
Co-existence	

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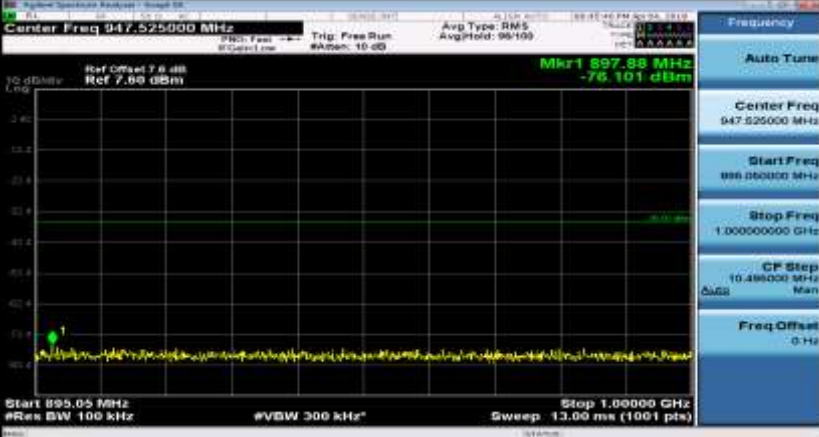
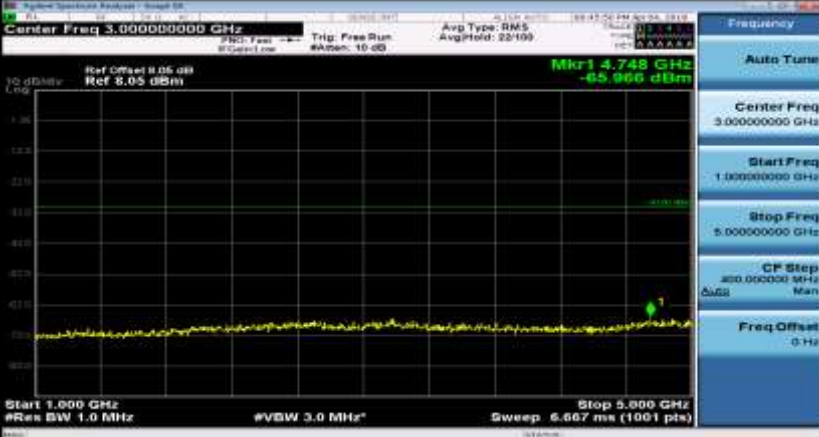

Co-existence	
Co-existence	
Co-existence	
Additional	NA

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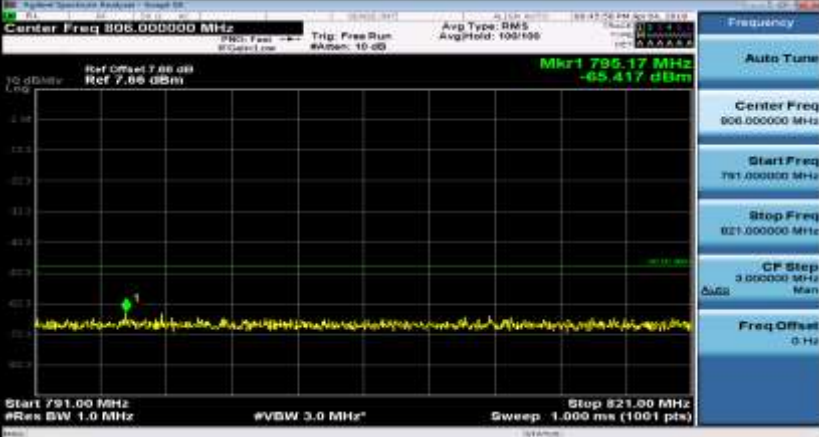
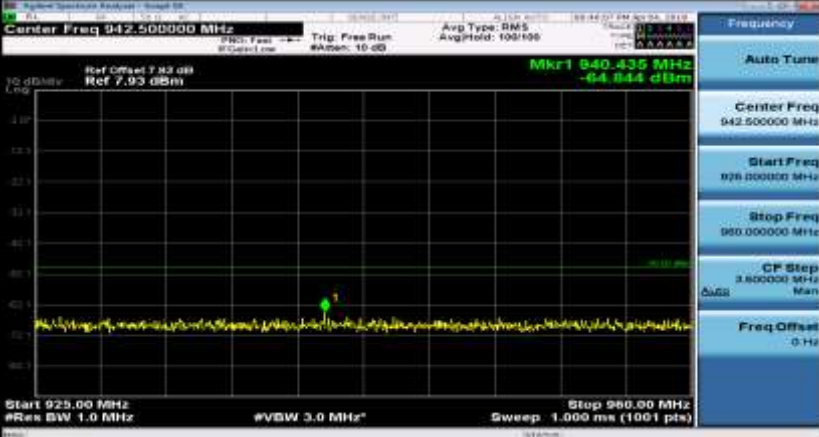

Channel Bandwidth= (5 MHz)



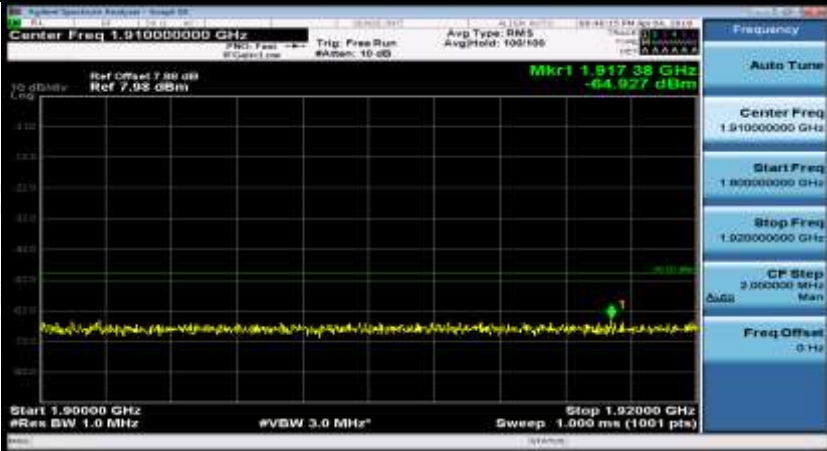
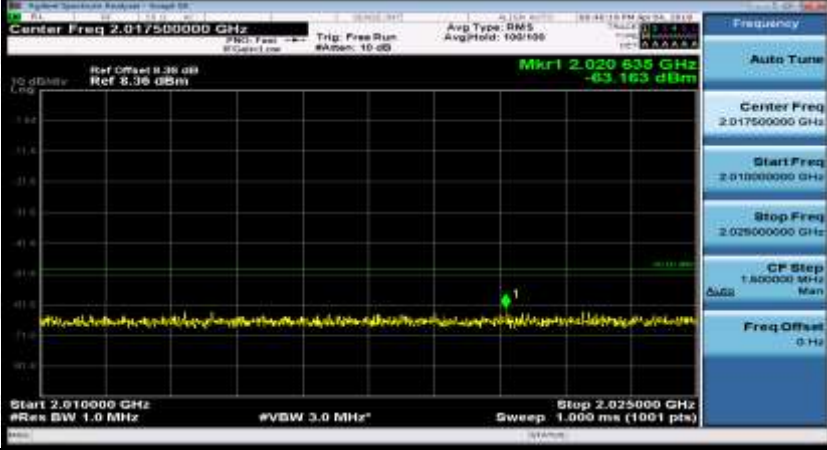

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General			
General			
General			

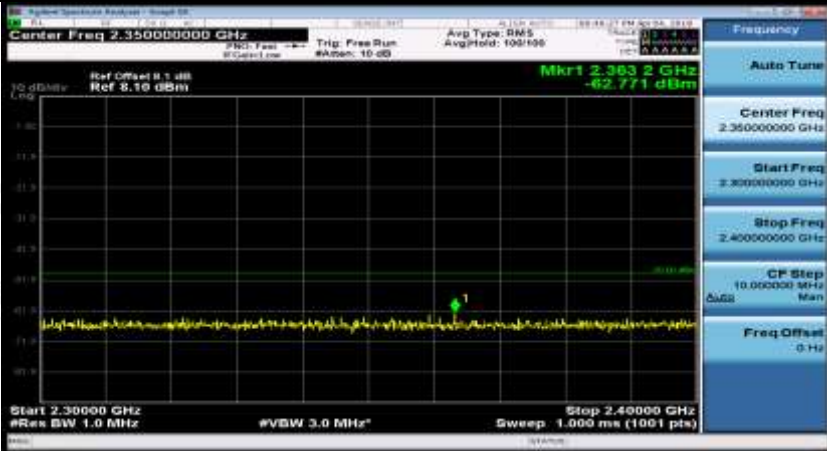
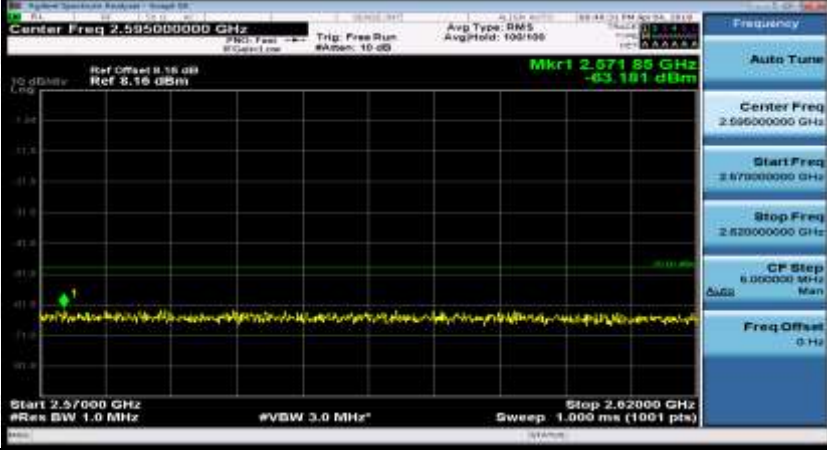
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Co-existence			
Co-existence			
Co-existence			

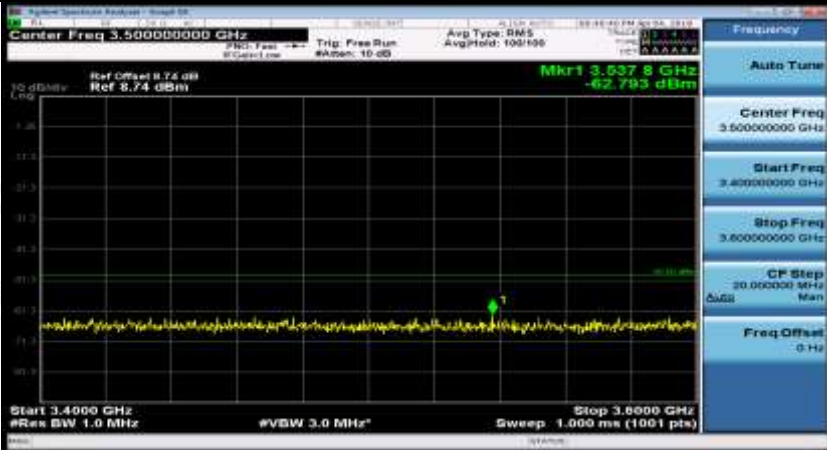
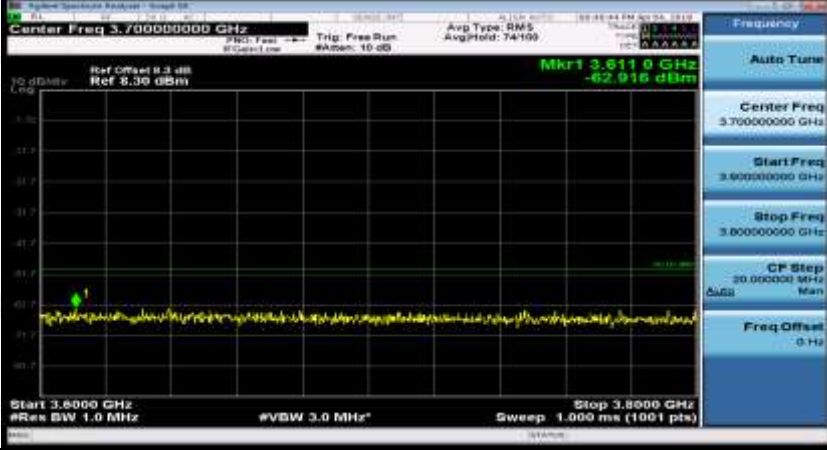
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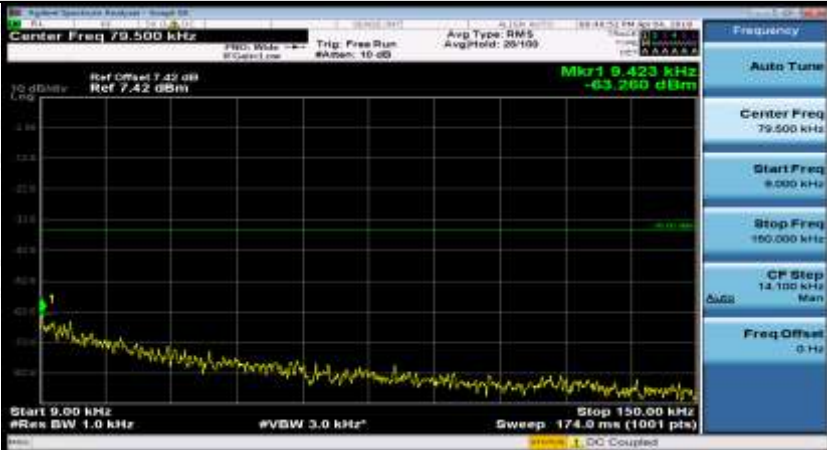
Co-existence	
Co-existence	
Co-existence	

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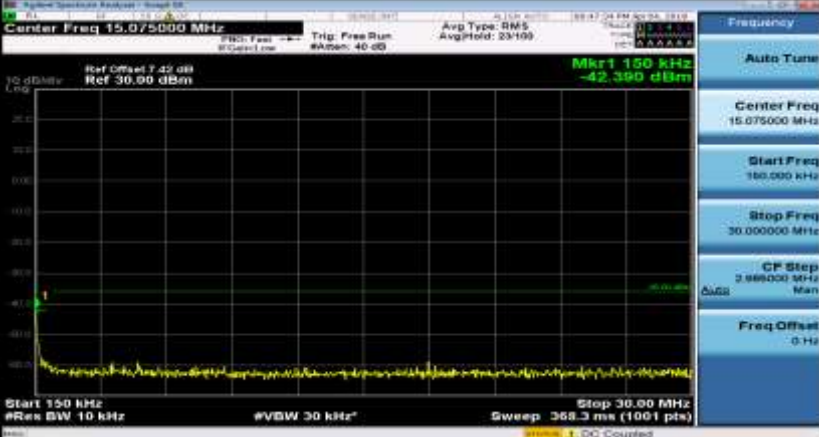
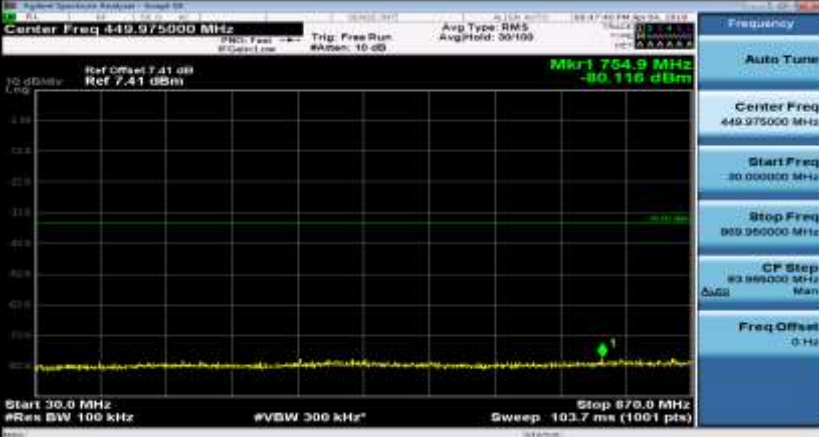
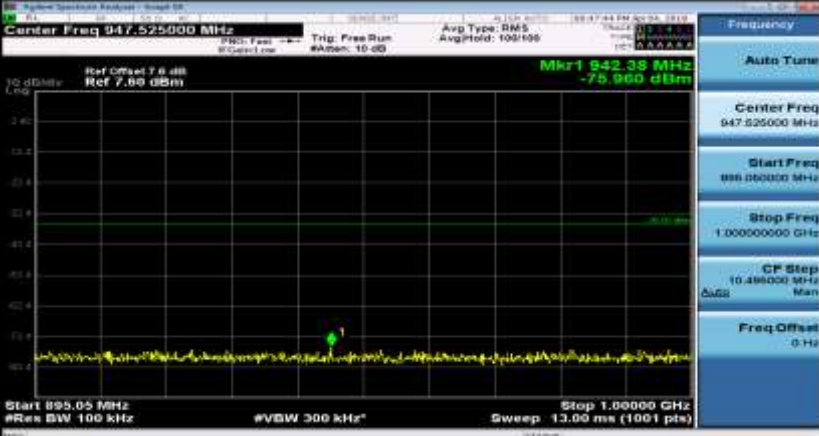
Co-existence	
Co-existence	
Co-existence	

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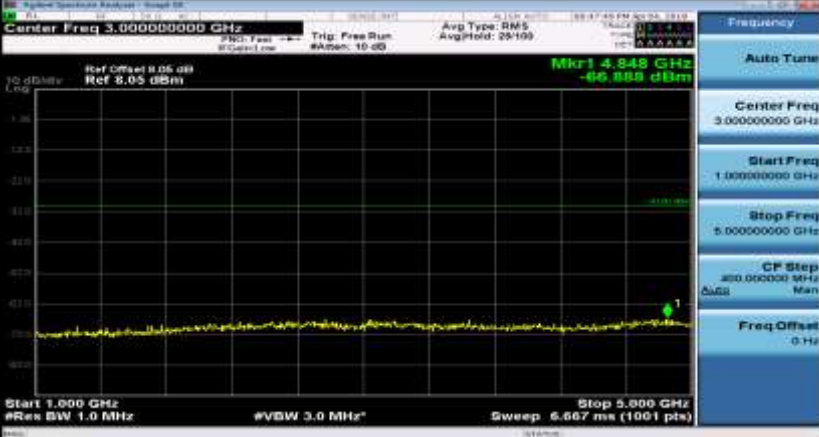
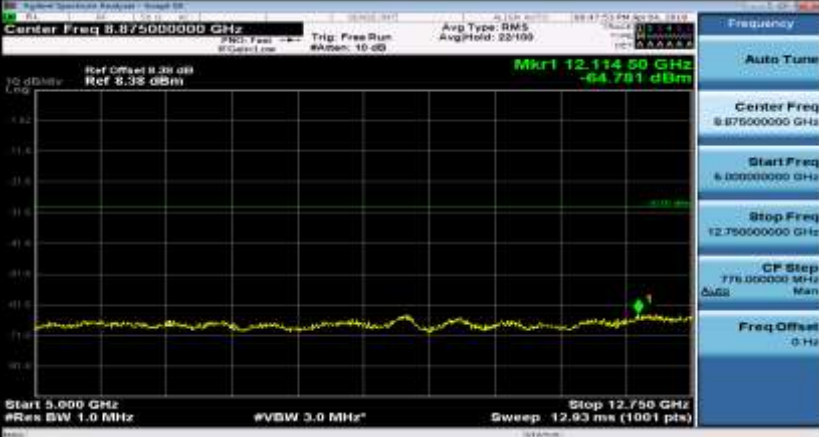
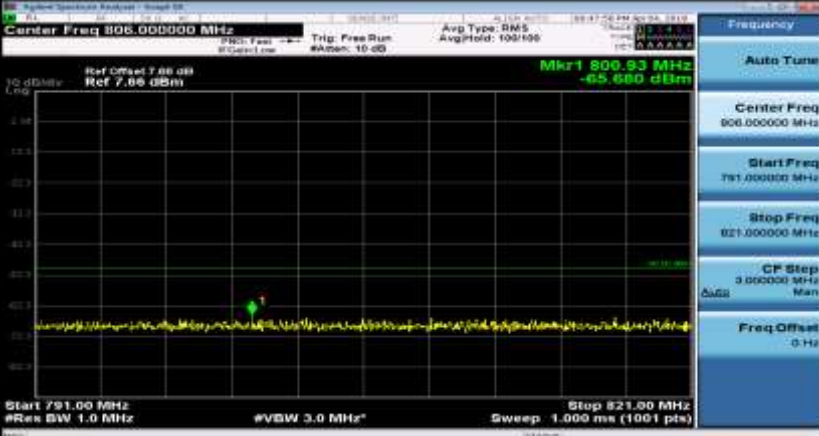
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_LCH_1RB#max	
General	

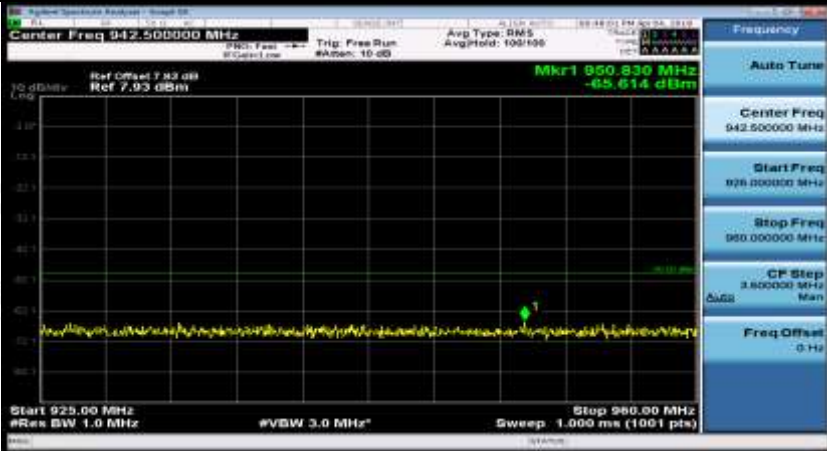
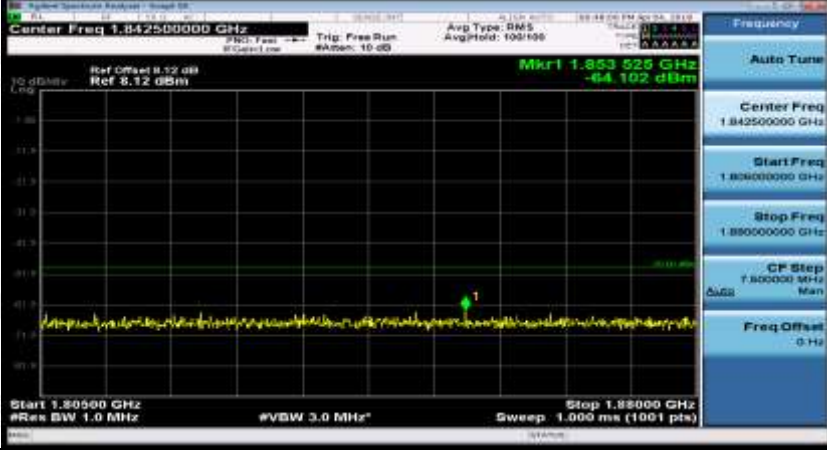
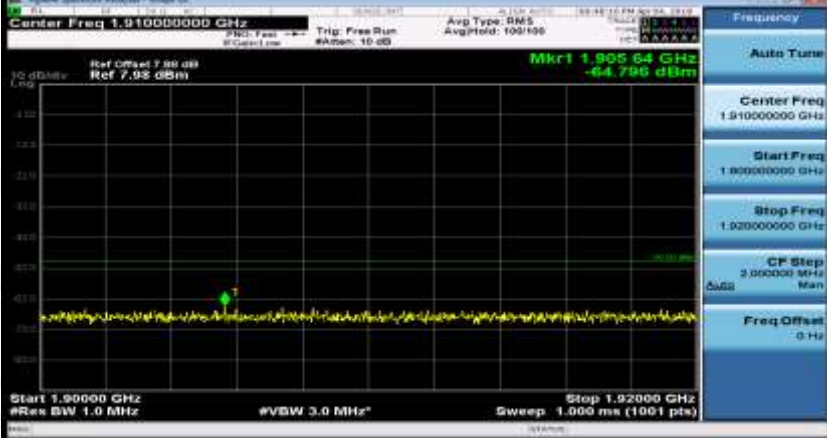
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General			
General			
General			

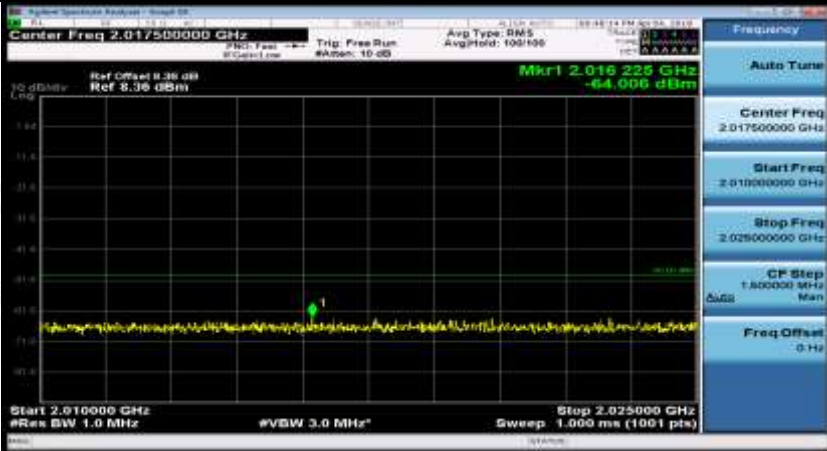
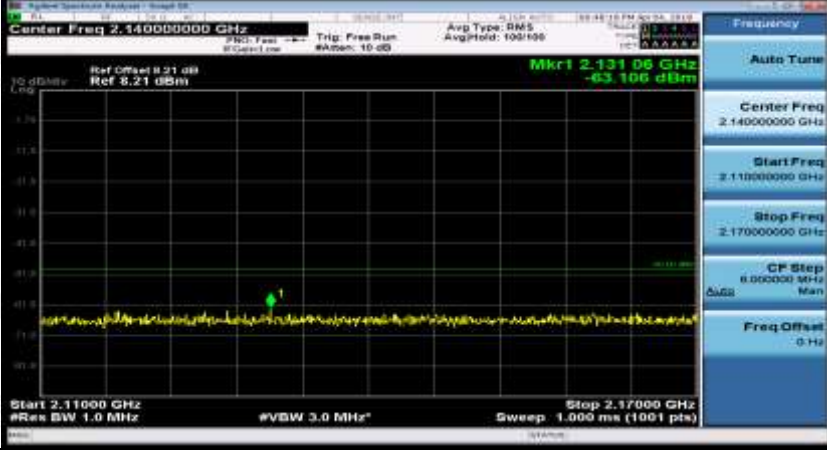
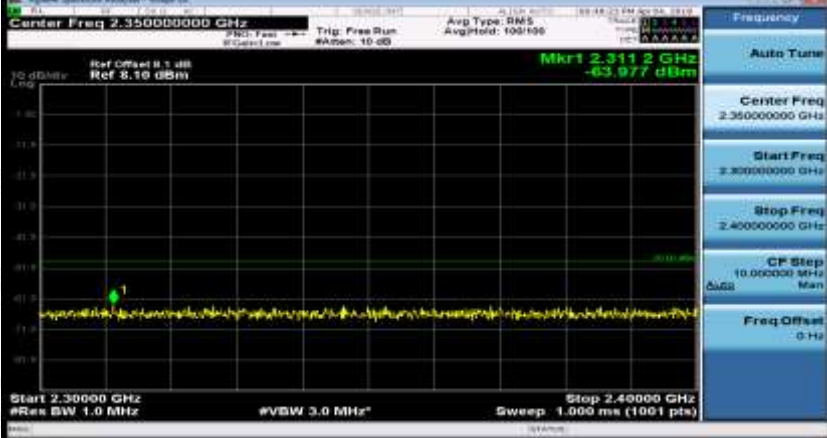
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General			
General			
Co-existence			

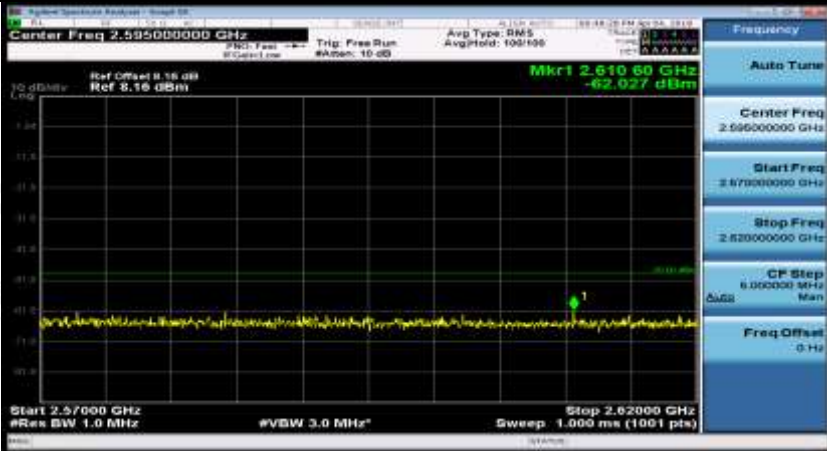
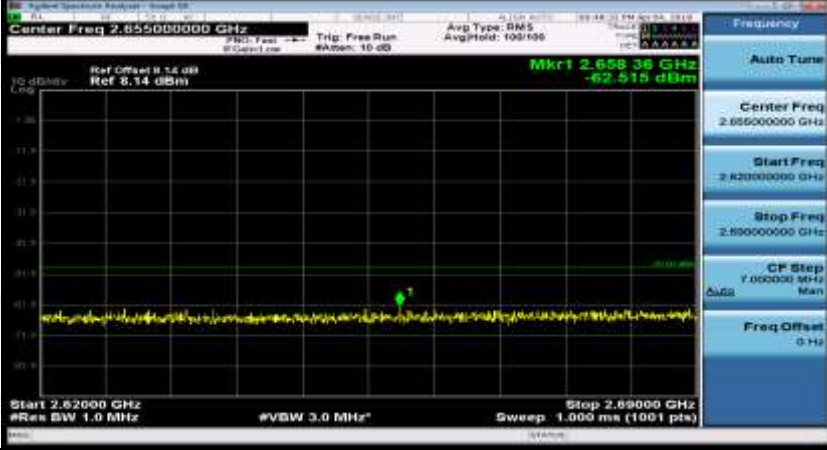
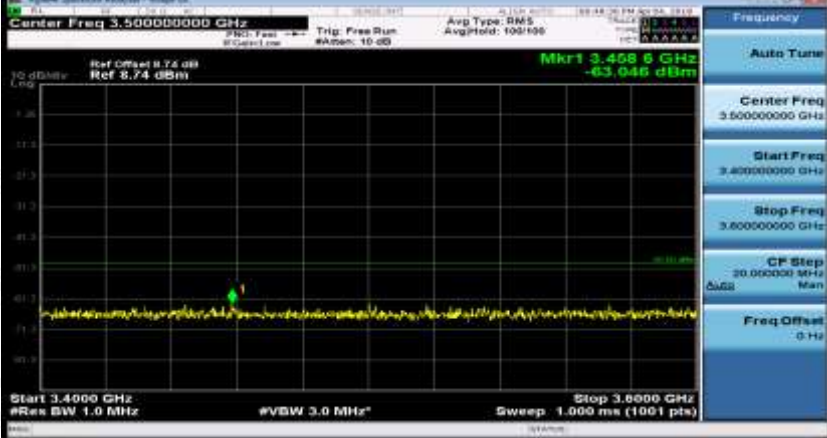
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Co-existence	
Co-existence	
Co-existence	

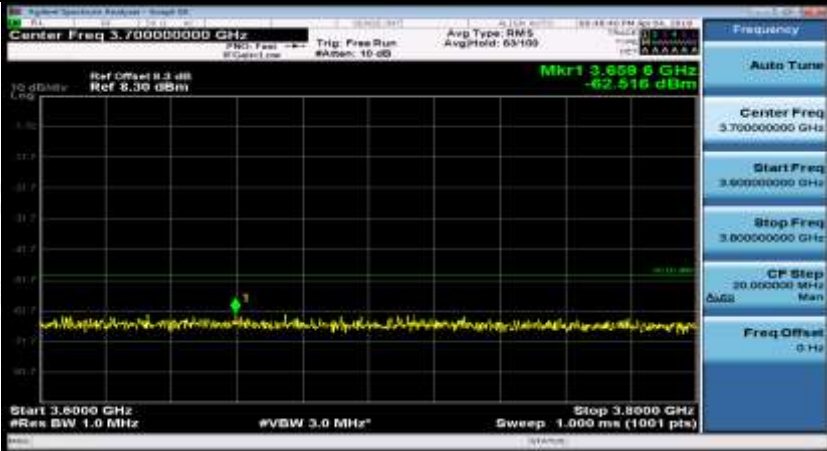
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Co-existence	
Co-existence	
Co-existence	

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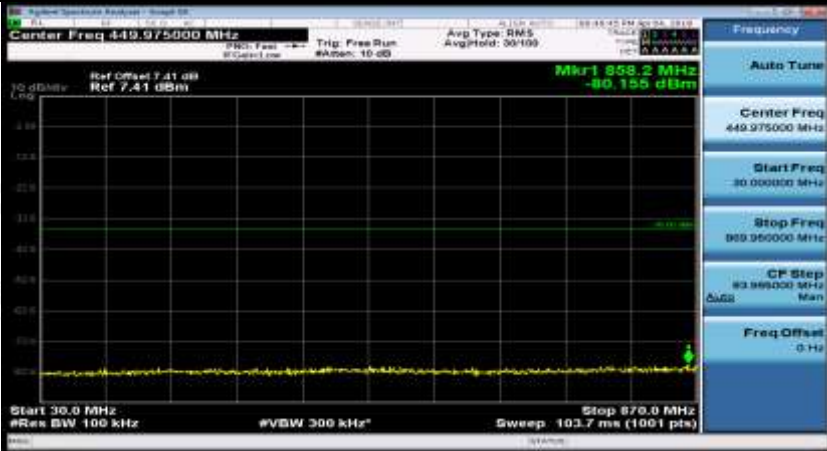
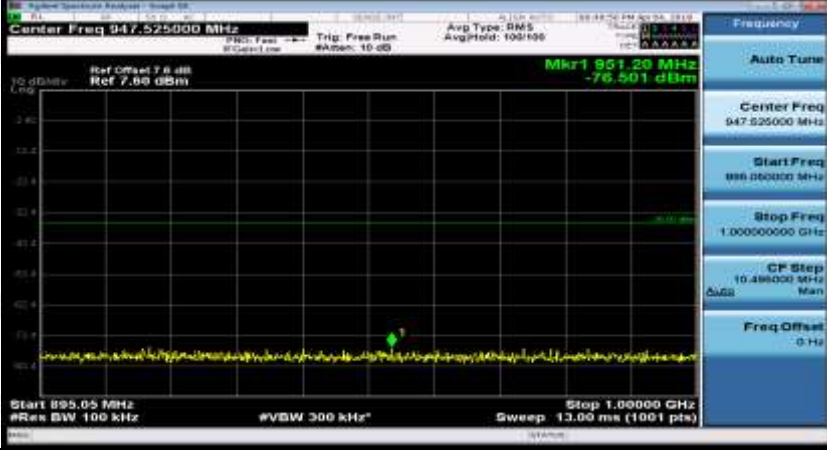
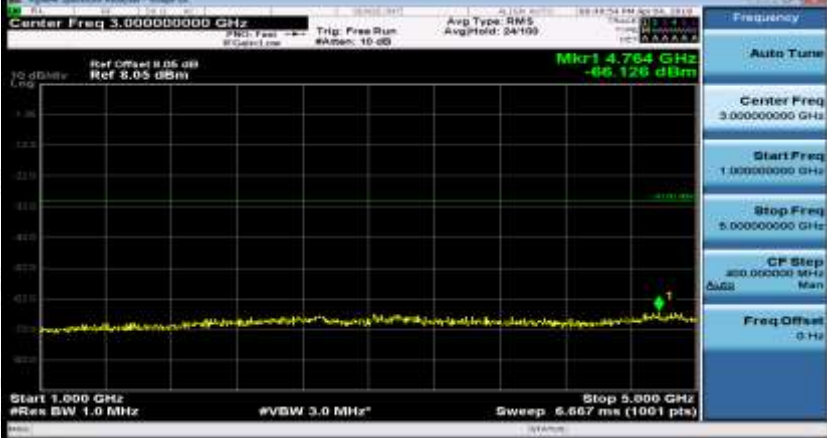
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_LCH_FullRB#0	
General	
General	

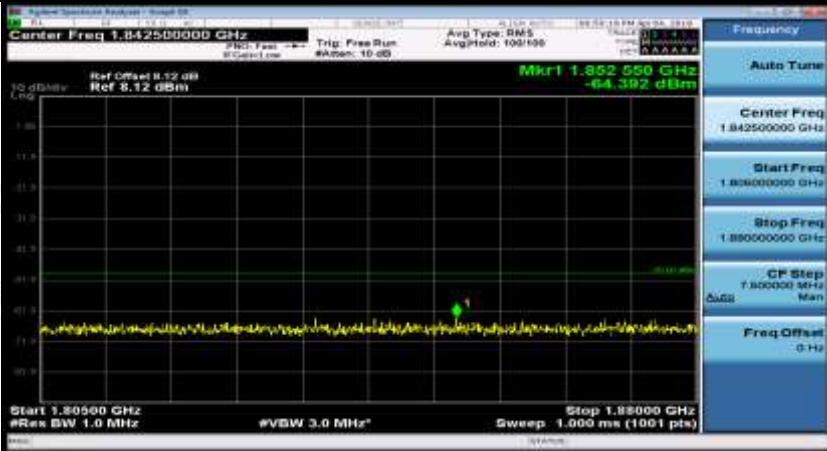
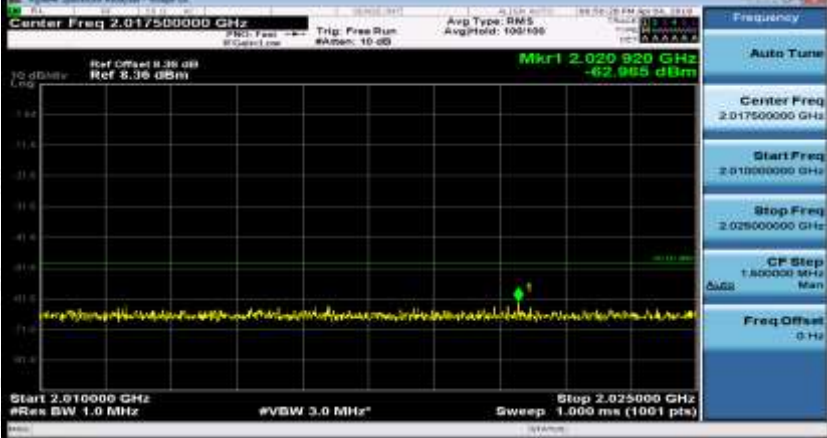
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General	
General	
General	

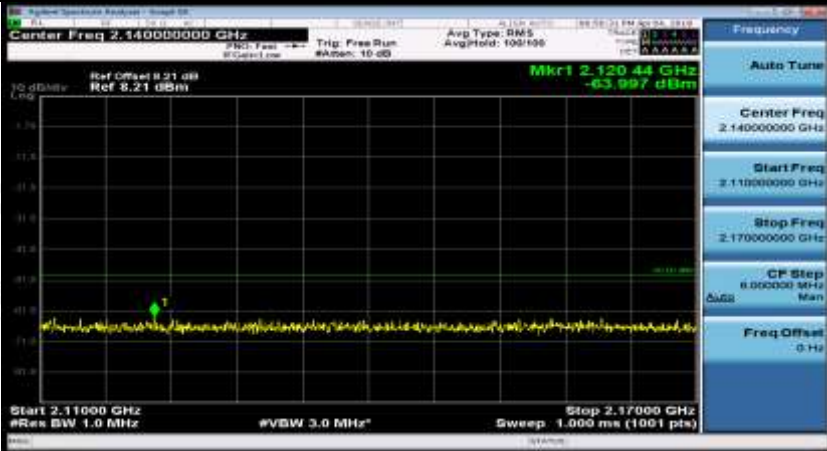
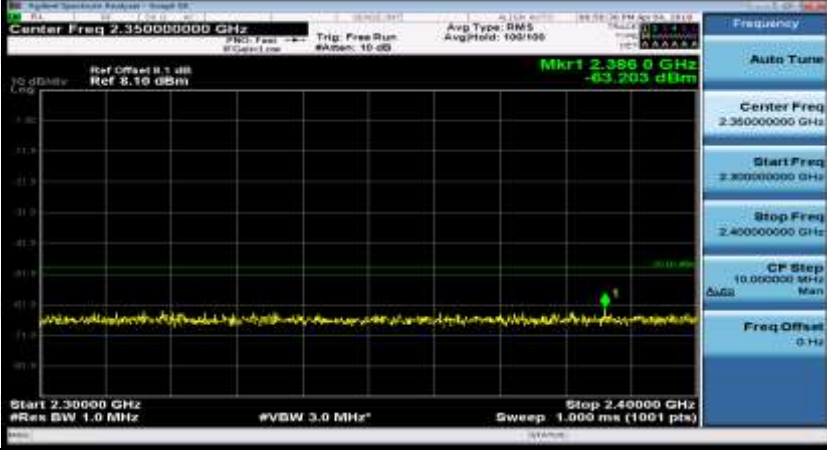
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General			
Co-existence			
Co-existence			

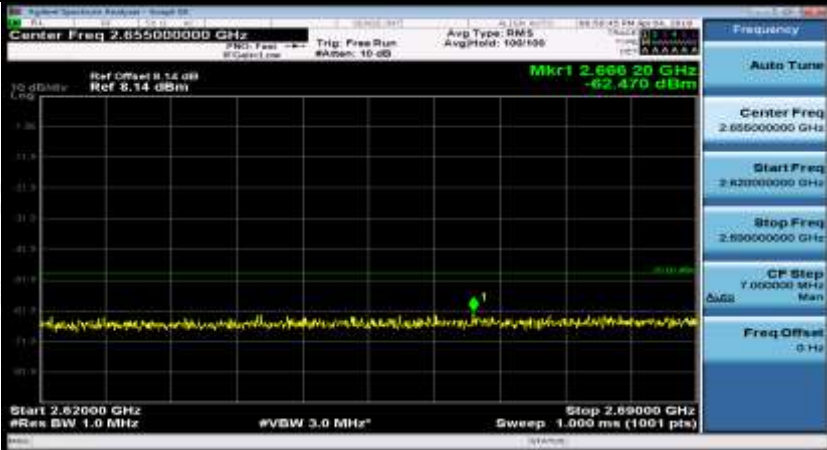
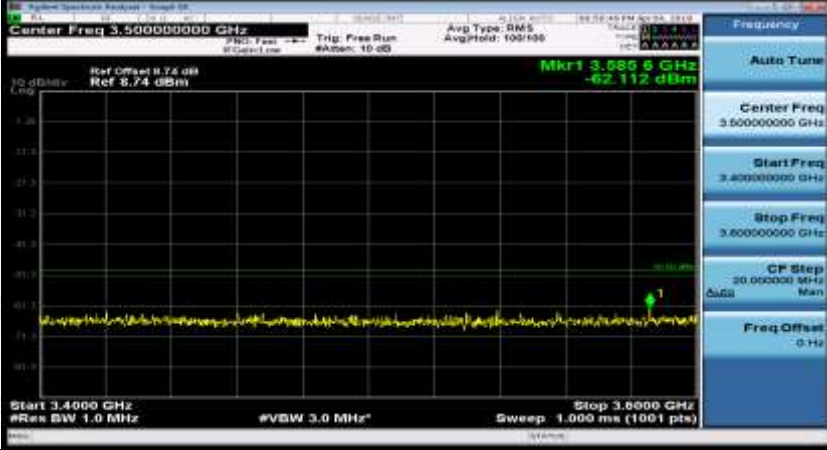

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Co-existence	
Co-existence	
Co-existence	

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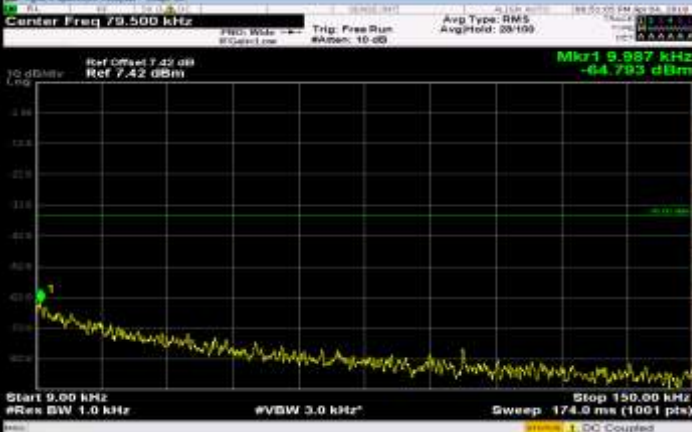

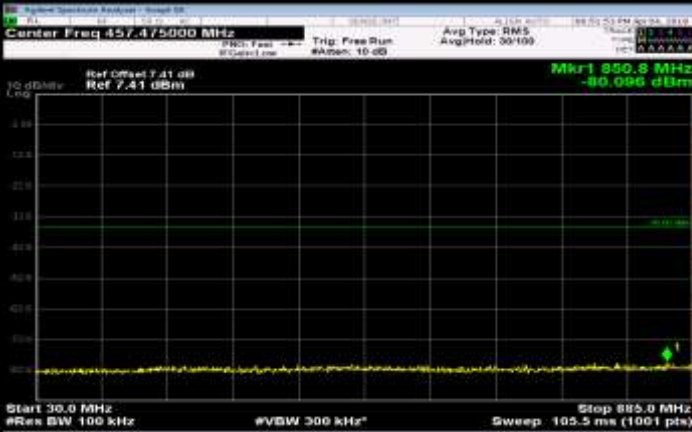
Co-existence	
Co-existence	
Co-existence	

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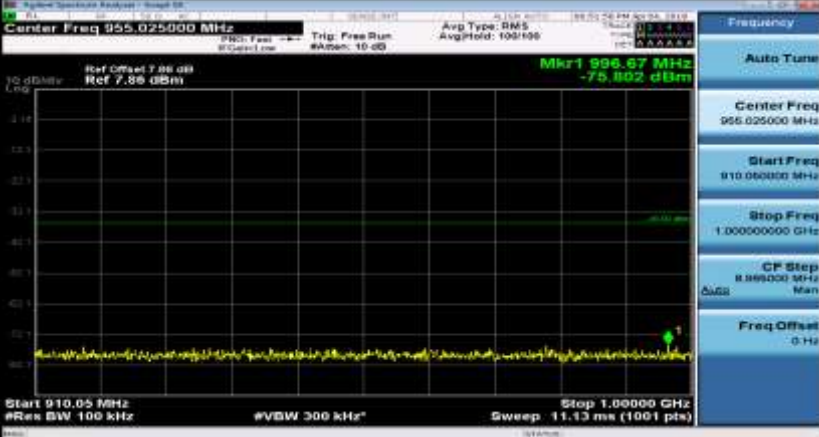
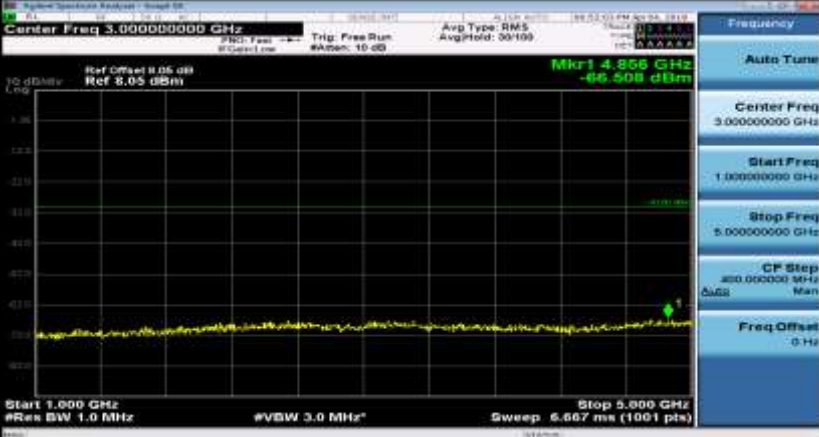

Co-existence	
Co-existence	
Co-existence	
Additional	NA

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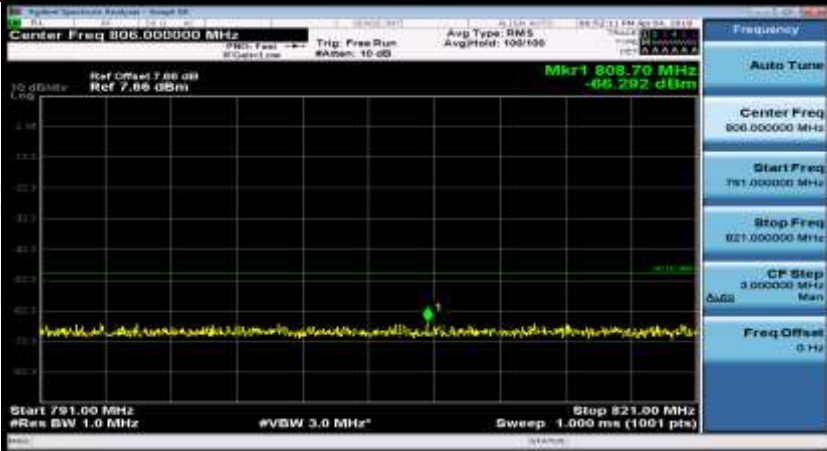
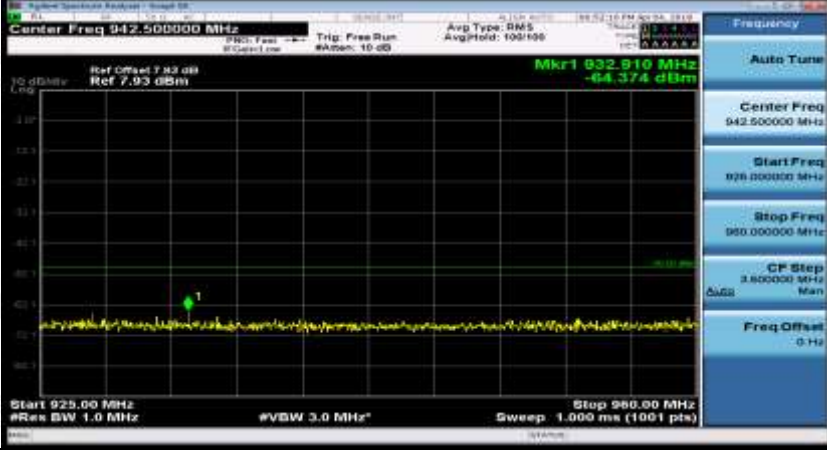
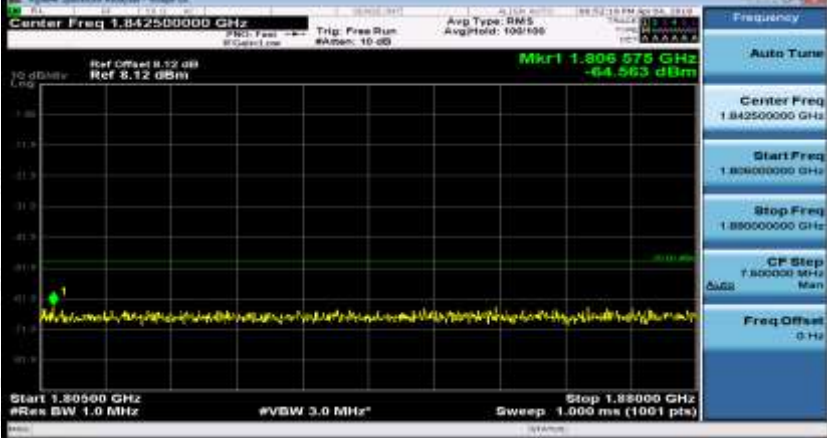
Channel Bandwidth= (5 MHz)_QPSK_MCH_1RB#0

General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 79.500 kHz</p> <p>Start Freq 8.000 kHz</p> <p>Stop Freq 150.000 kHz</p> <p>CF Step 14.100 kHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 15.075000 MHz</p> <p>Start Freq 180.000 kHz</p> <p>Stop Freq 30.000000 MHz</p> <p>CF Step 3.999000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 457.475000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 884.950000 MHz</p> <p>CF Step 86.499000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>

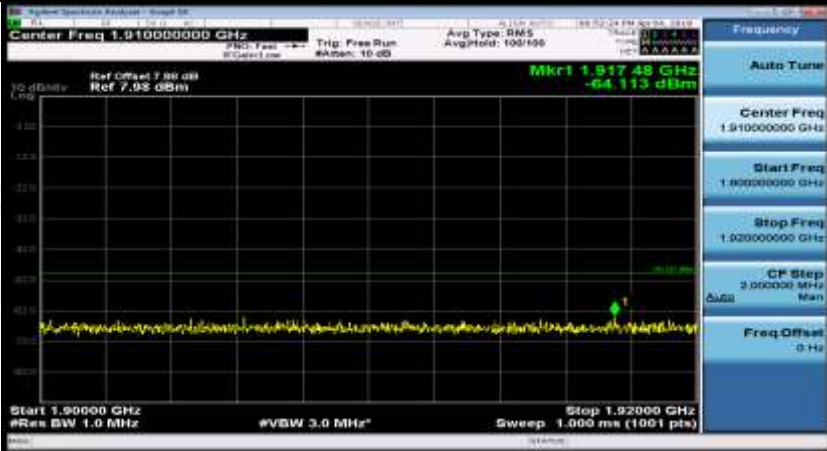
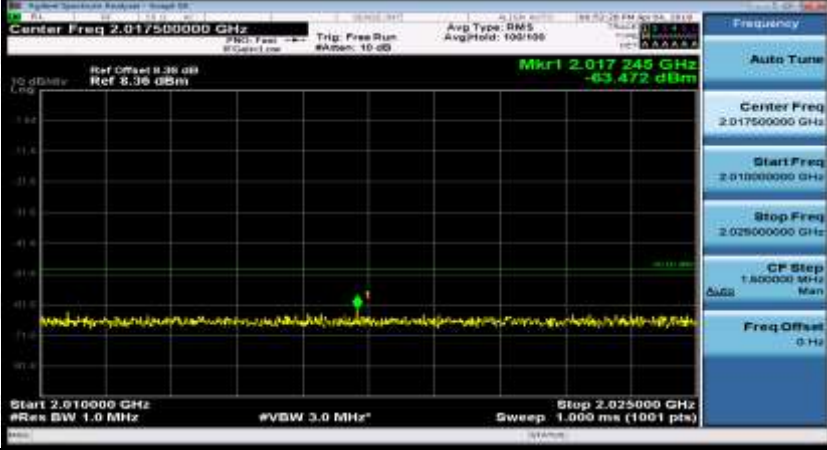
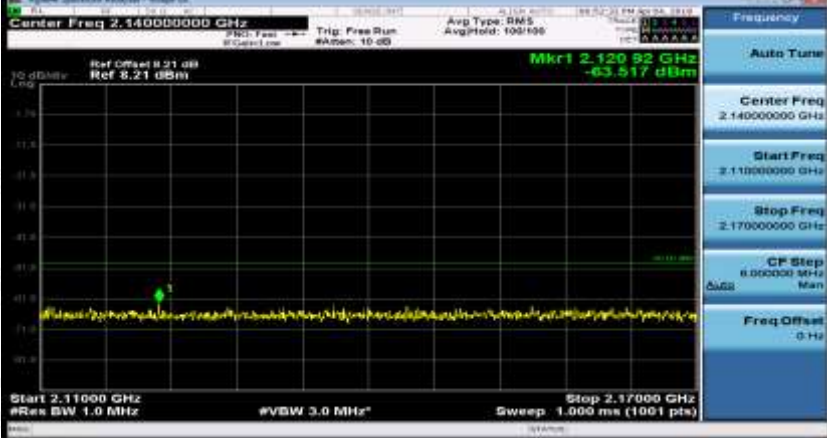
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General			
General			
General			

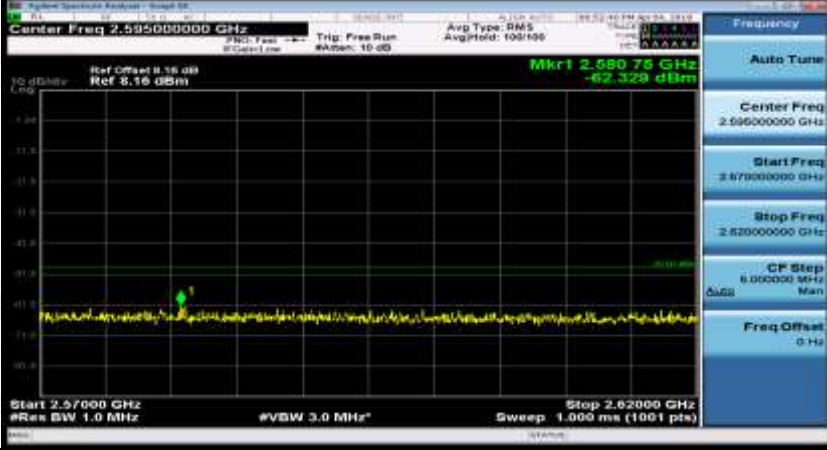
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Co-existence	
Co-existence	
Co-existence	

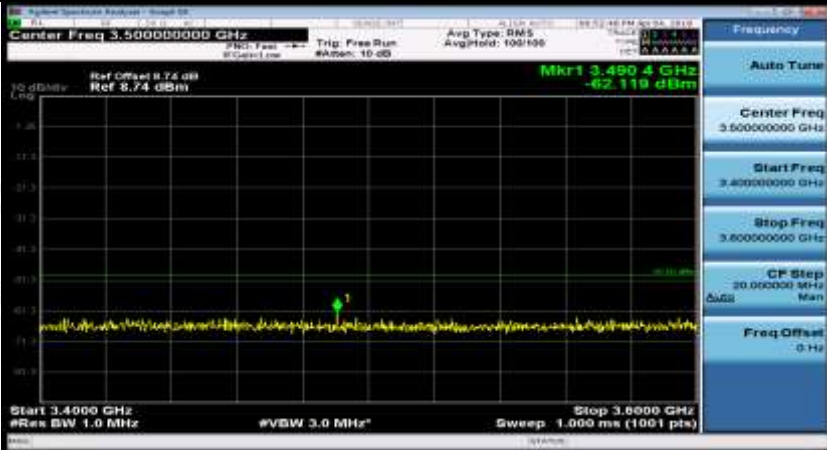
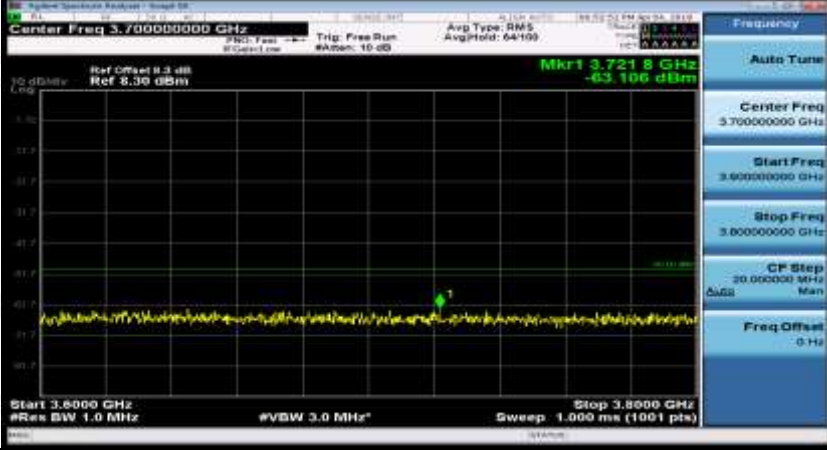
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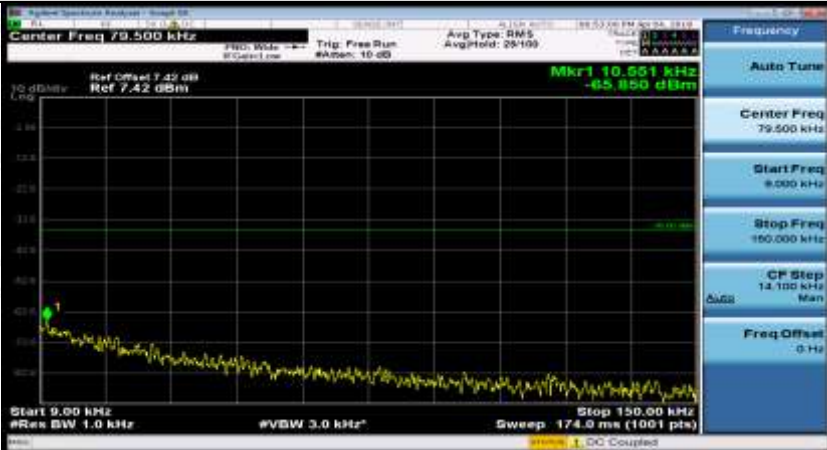
Co-existence	
Co-existence	
Co-existence	

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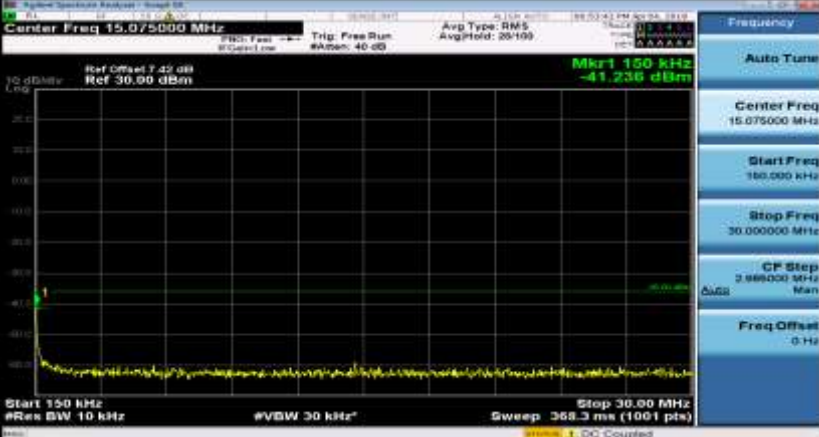
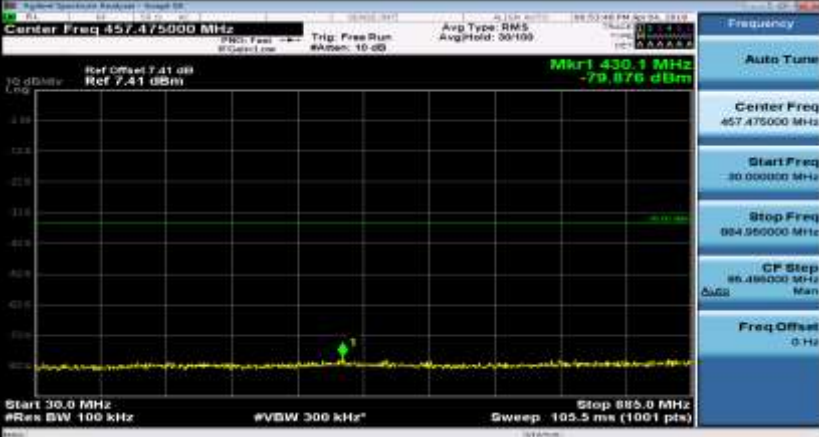

Co-existence	
Co-existence	
Co-existence	

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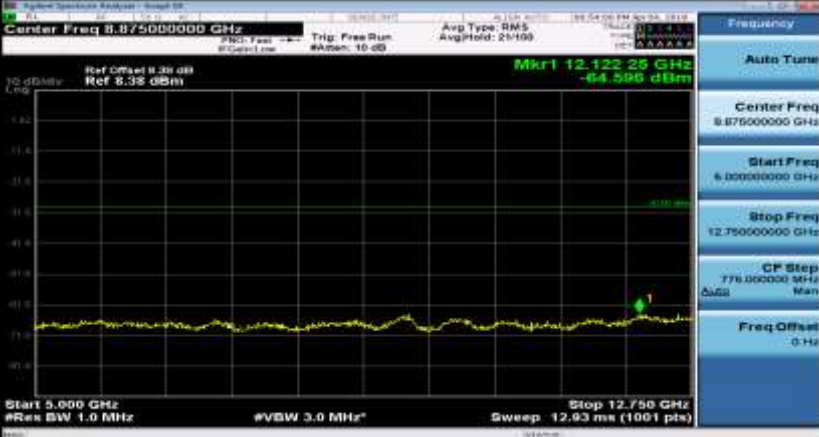
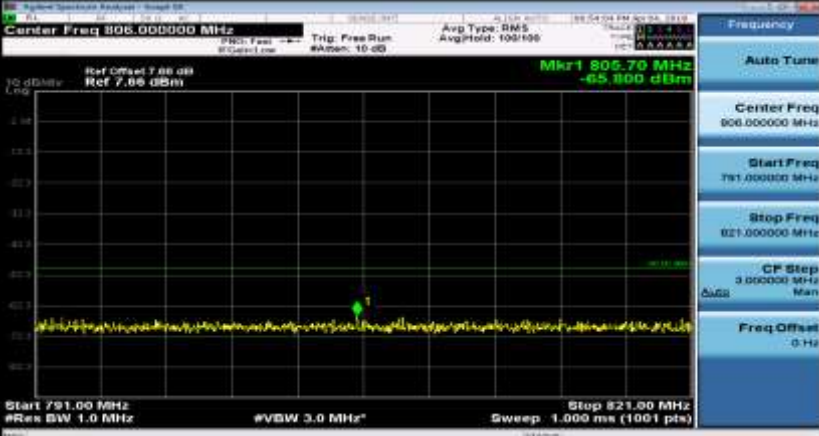
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_MCH_1RB#max	
General	

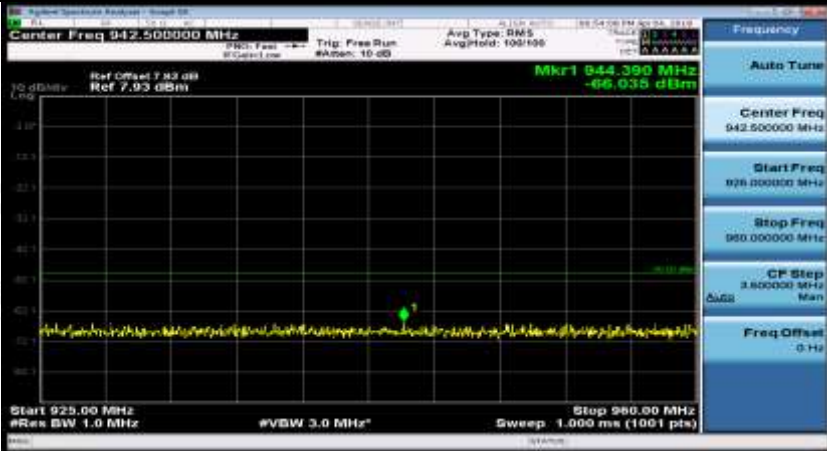
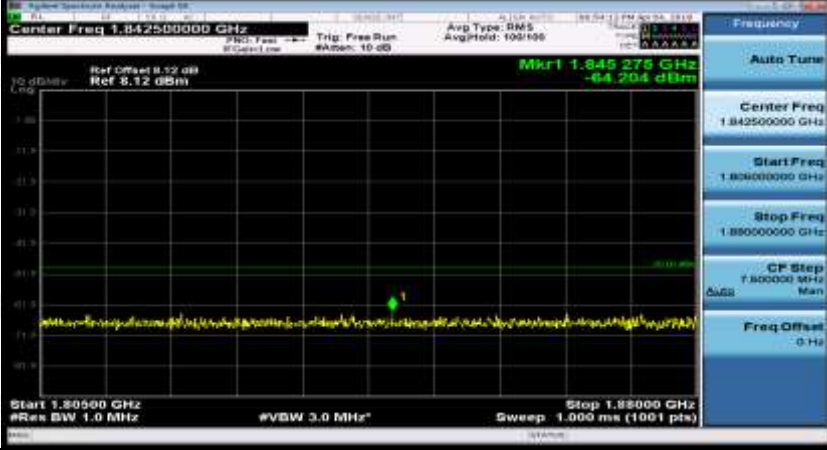
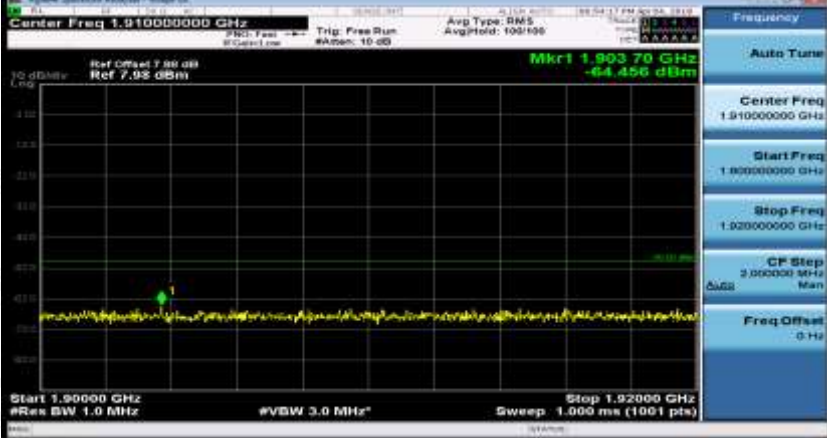
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General			
General			
General			


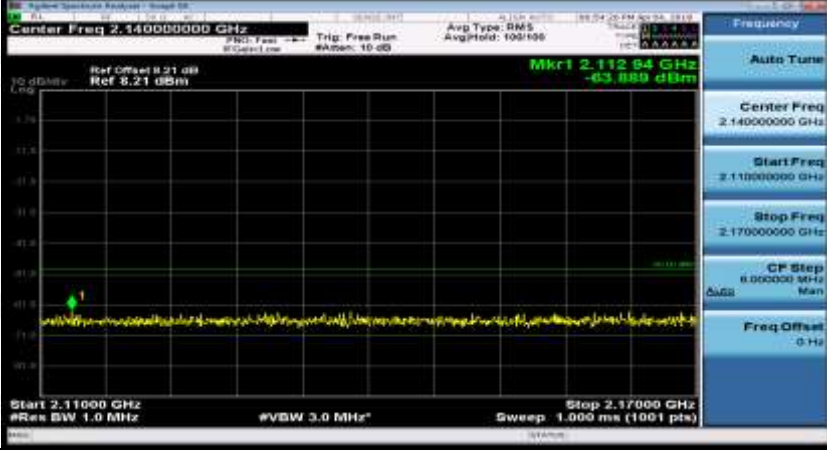
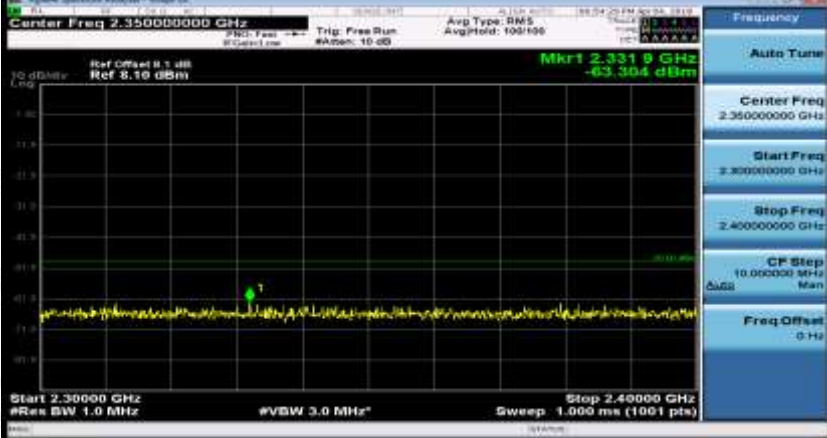
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General			
General			
Co-existence			

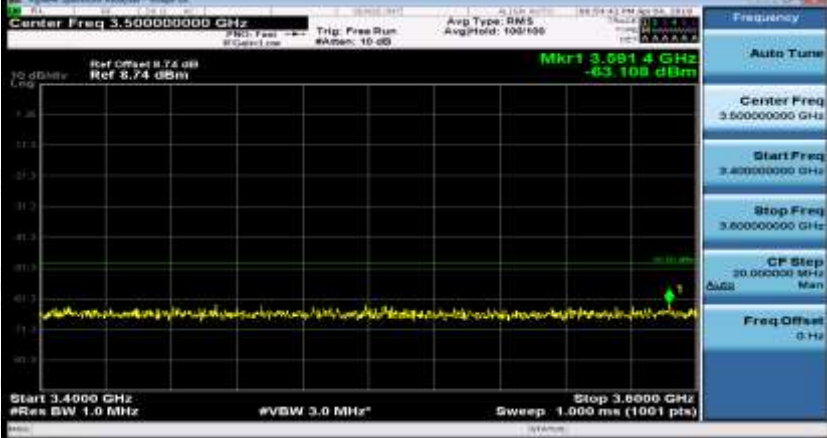
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Co-existence	
Co-existence	
Co-existence	

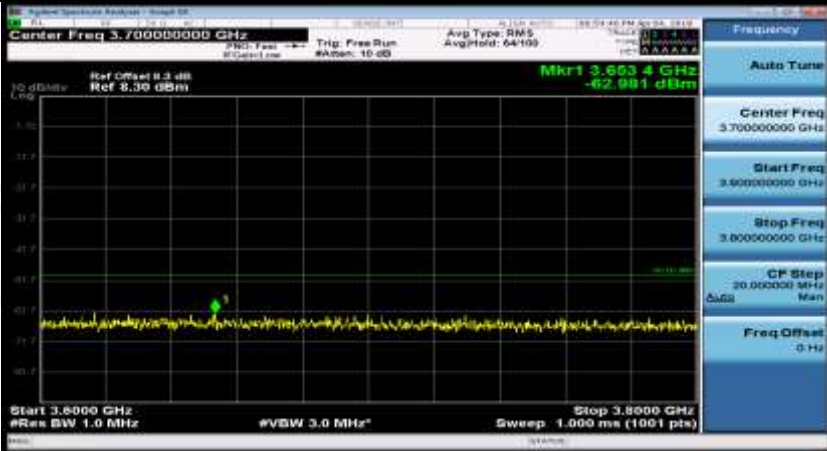
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Co-existence	
Co-existence	
Co-existence	

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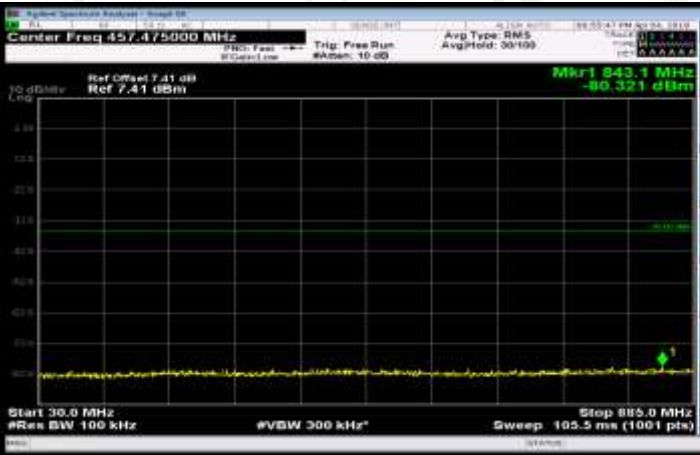
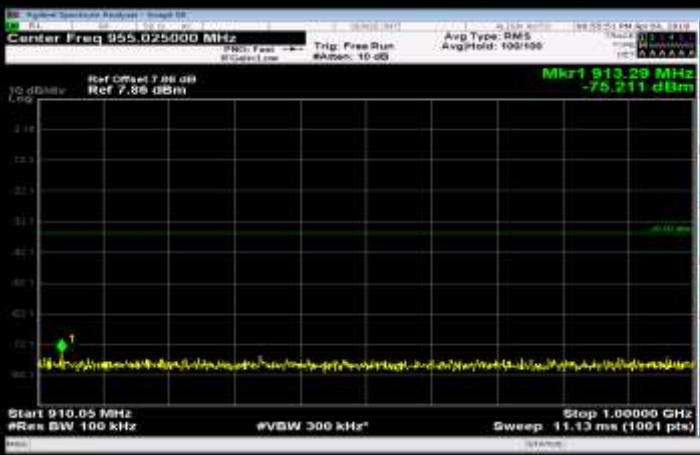

Co-existence	
Co-existence	
Co-existence	

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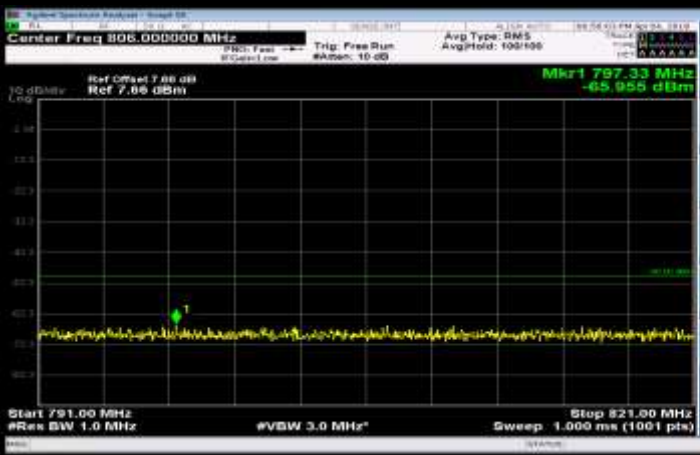
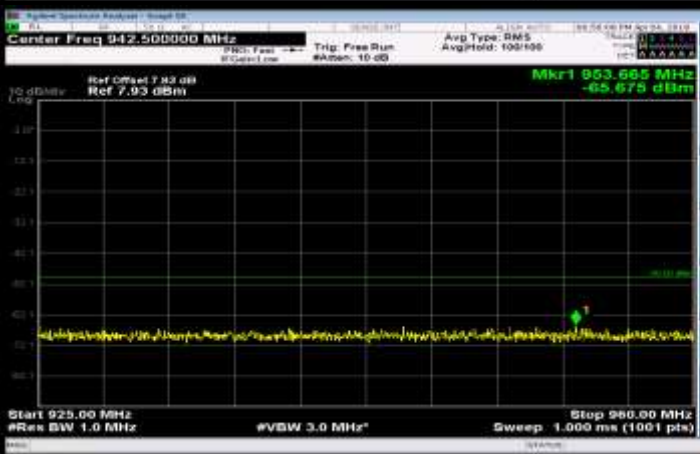
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_MCH_FullIRB#0	
General	
General	

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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 457.475000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 884.950000 MHz</p> <p>CF Step 86.490000 MHz Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 955.025000 MHz</p> <p>Start Freq 910.050000 MHz</p> <p>Stop Freq 1.000000000 GHz</p> <p>CF Step 8.989000 MHz Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.000000000 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 5.000000000 GHz</p> <p>CF Step 200.000000 MHz Man</p> <p>Freq Offset 0 Hz</p>

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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 8.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 778.000000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 806.000000 MHz</p> <p>Start Freq 781.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 942.500000 MHz</p> <p>Start Freq 926.000000 MHz</p> <p>Stop Freq 960.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>

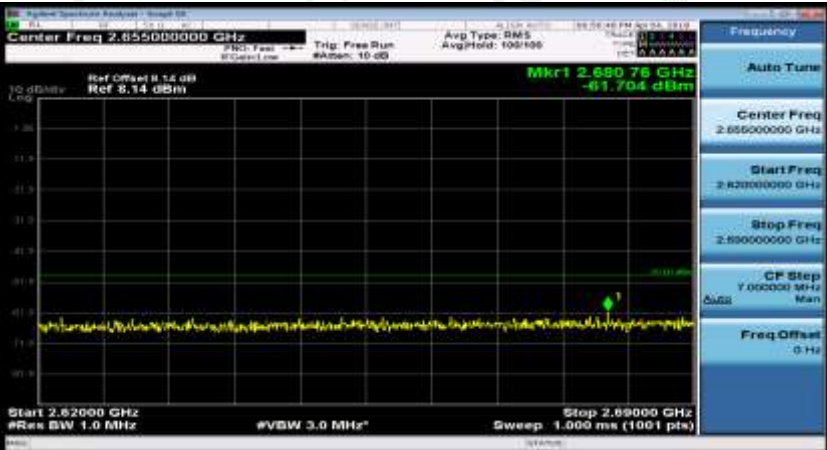
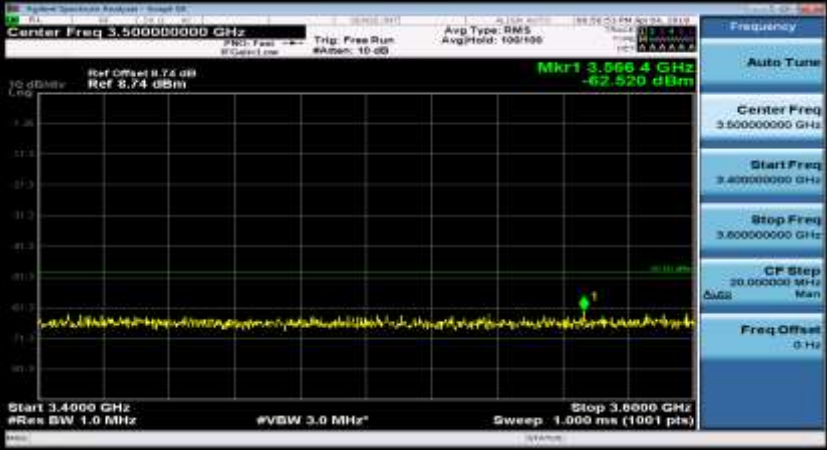

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Co-existence	
Co-existence	
Co-existence	

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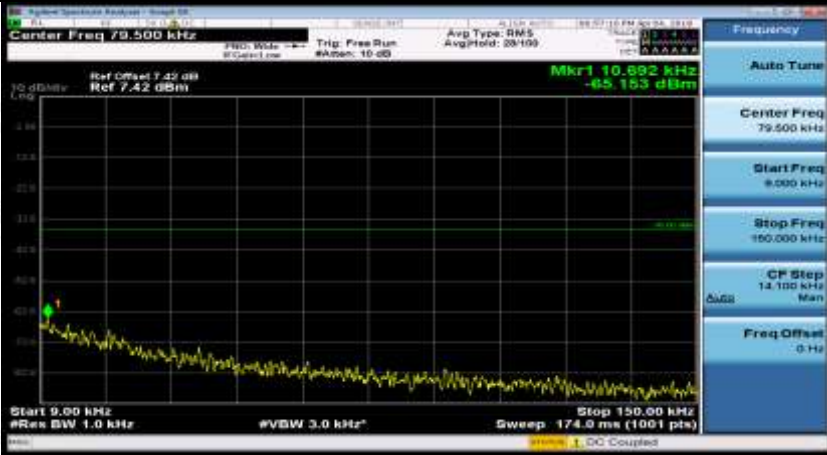
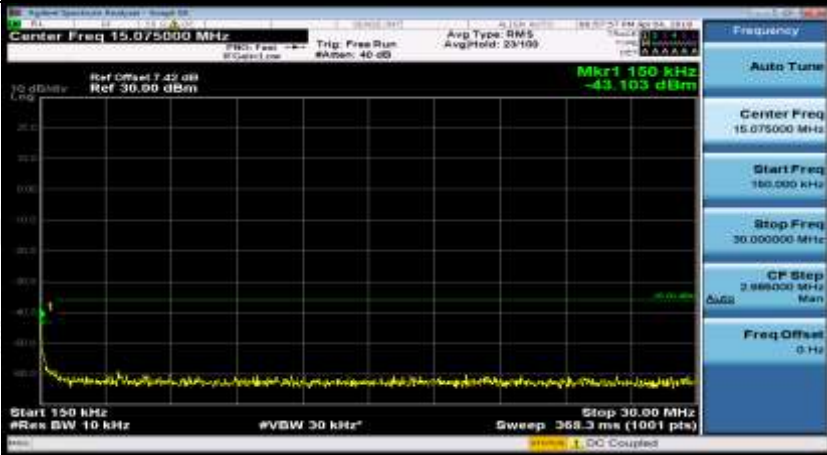
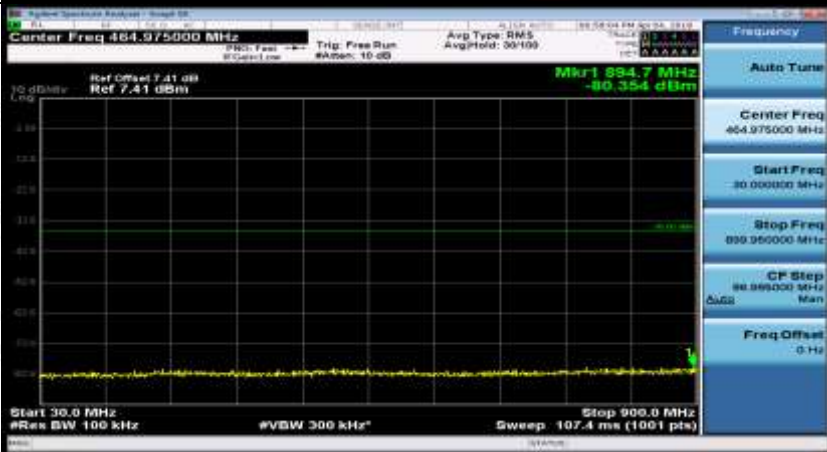
Co-existence	
Co-existence	
Co-existence	

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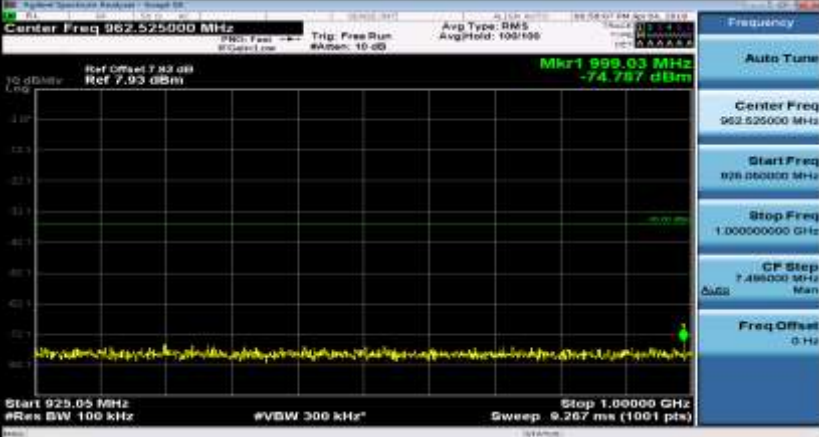
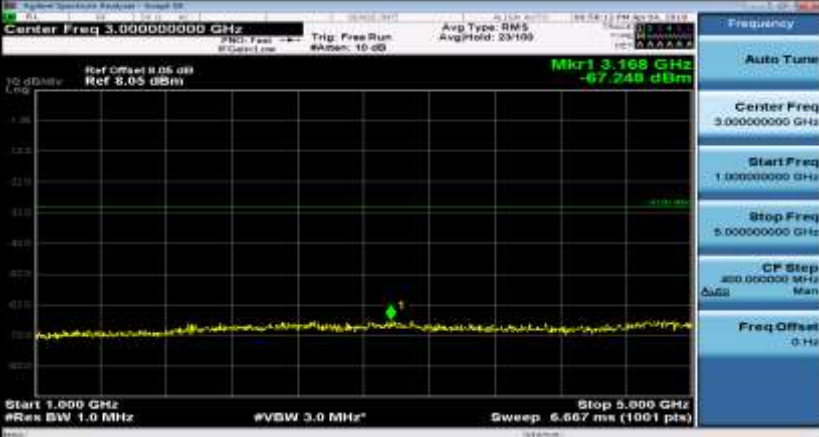
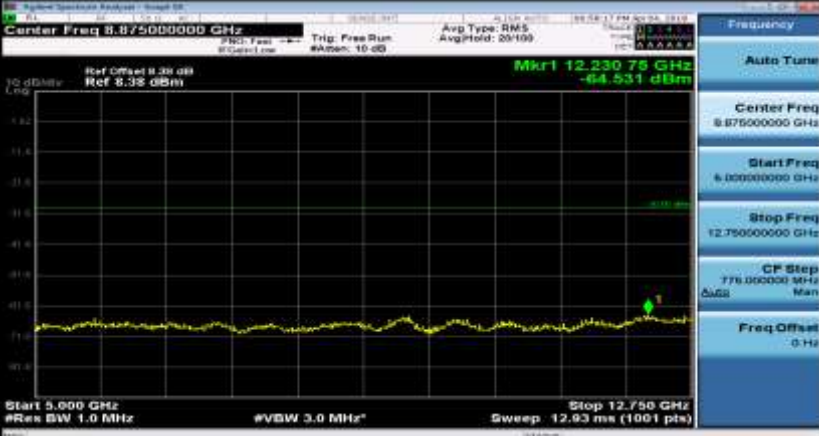
Co-existence	
Co-existence	
Co-existence	
Additional	NA

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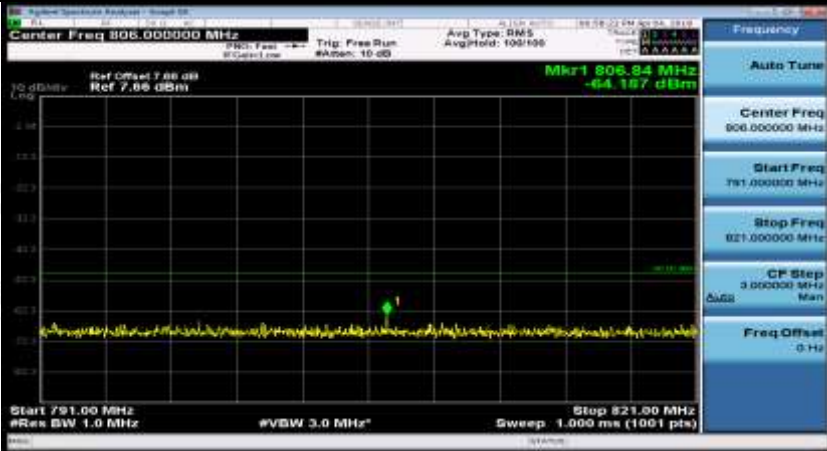
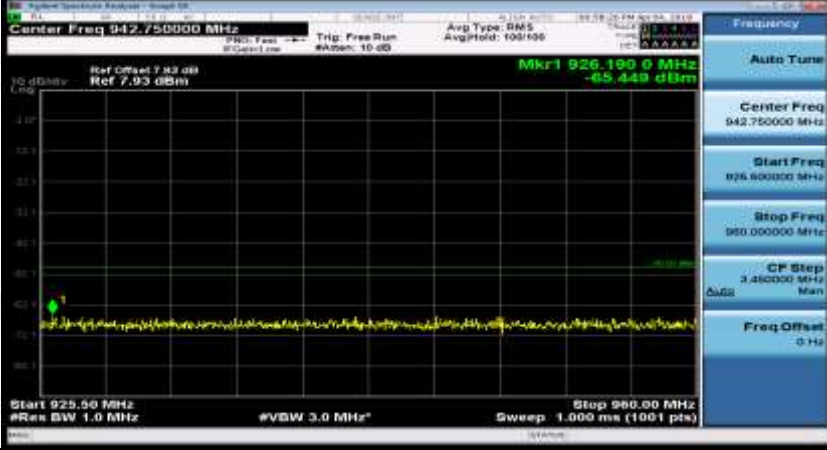
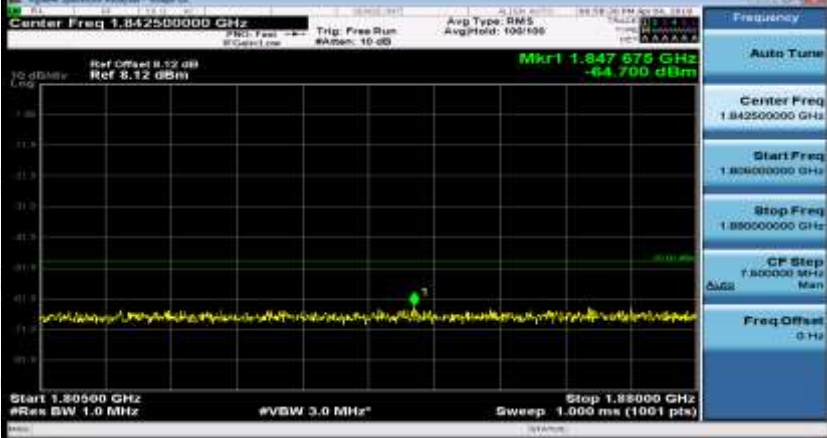
Channel Bandwidth= (5 MHz)_QPSK_HCH_1RB#0

General	
General	
General	

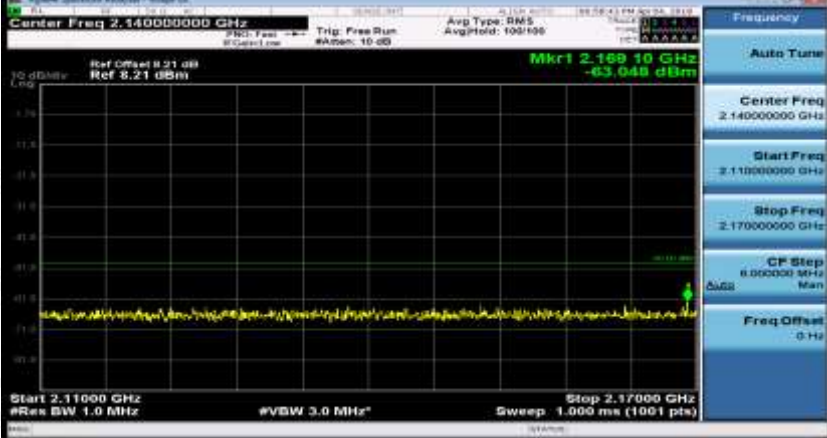
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General			
General			
General			

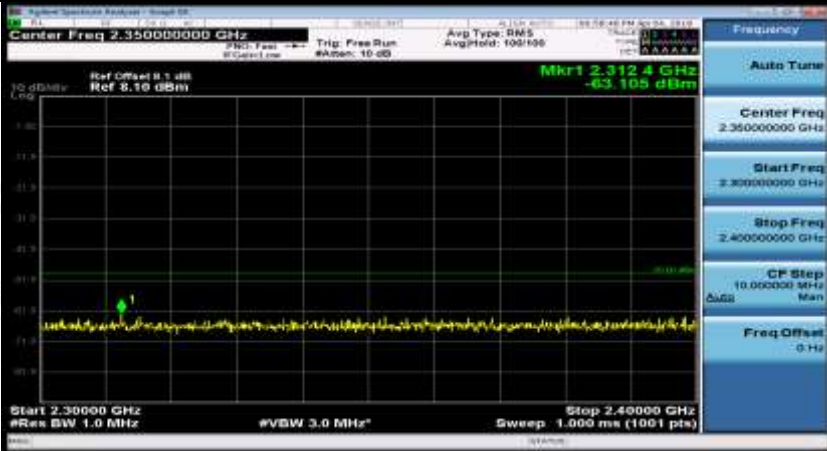
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Co-existence	
Co-existence	
Co-existence	

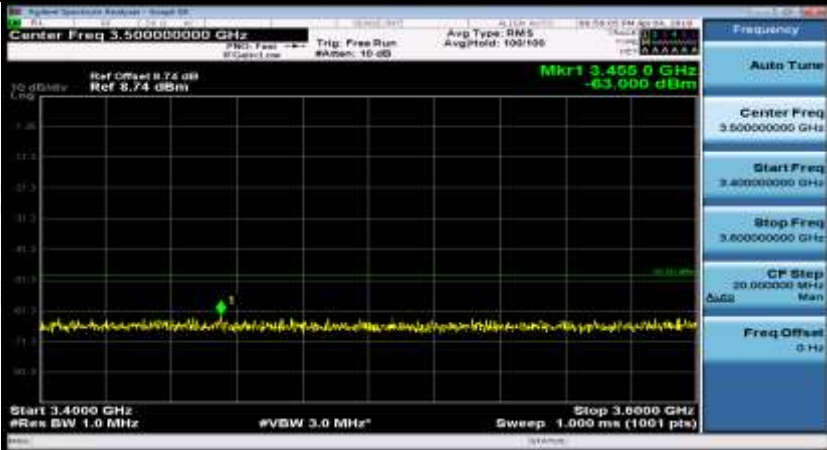
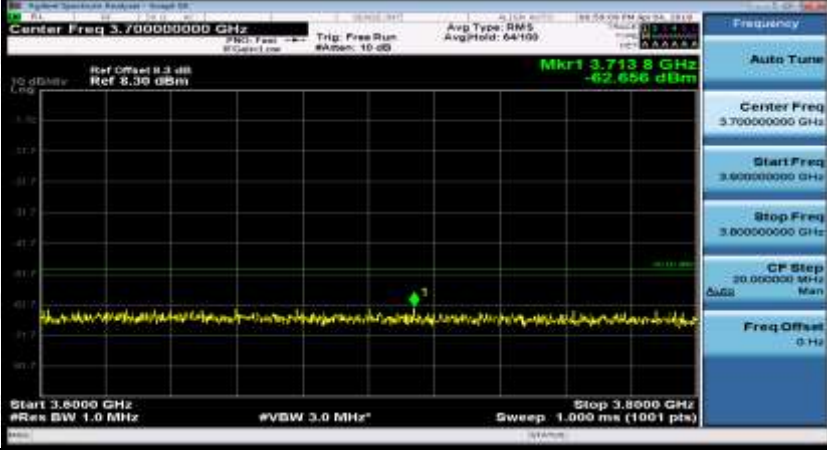
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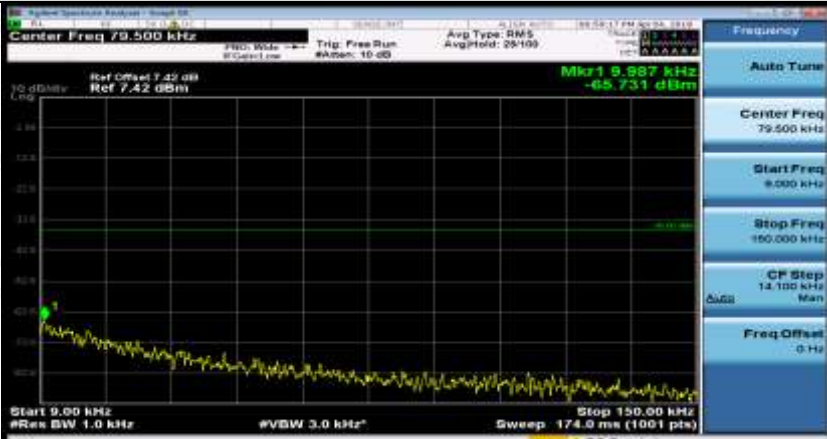
Co-existence	
Co-existence	
Co-existence	

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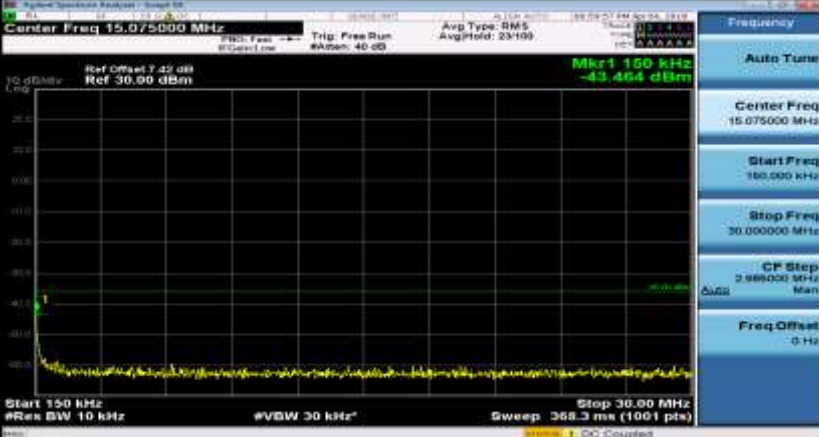
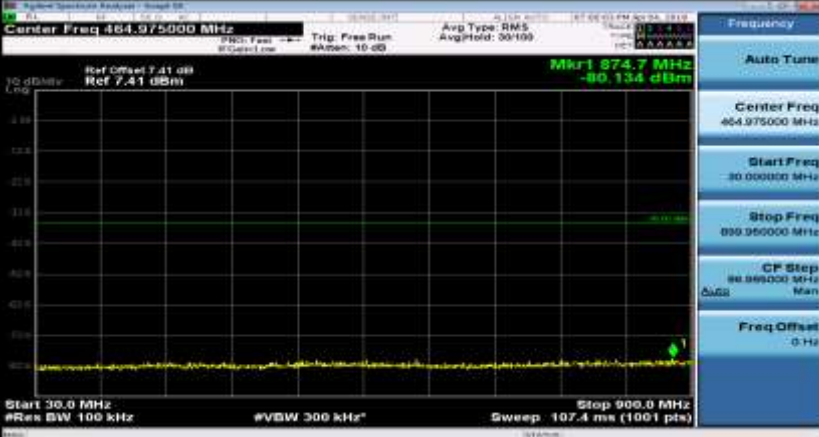
Co-existence	
Co-existence	
Co-existence	

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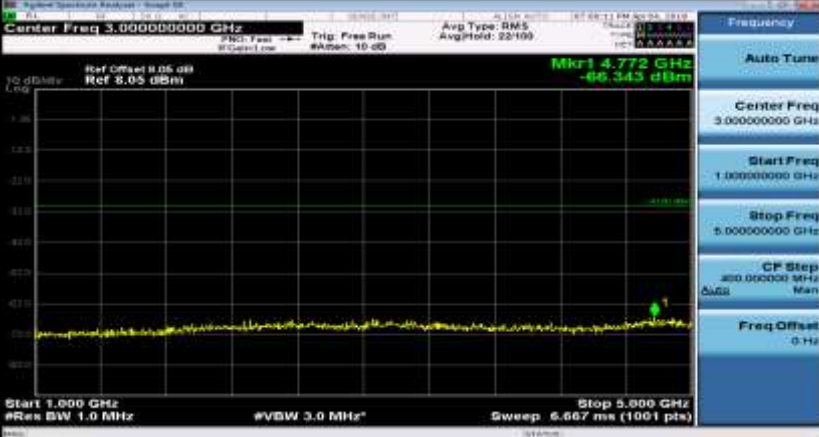

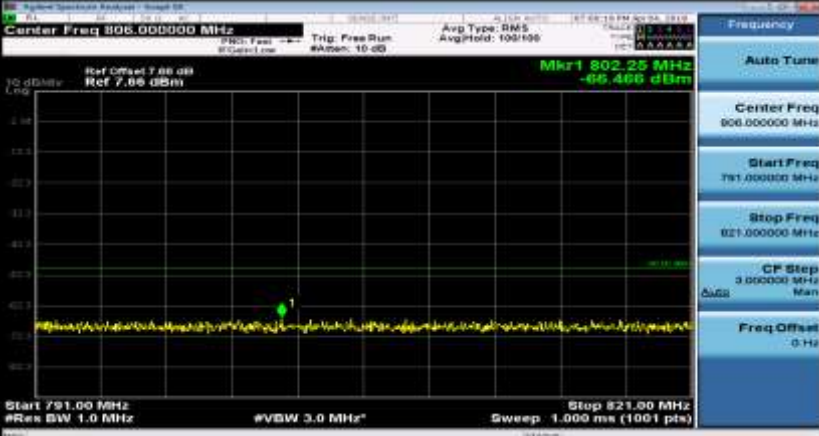
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_HCH_1RB#max	
General	

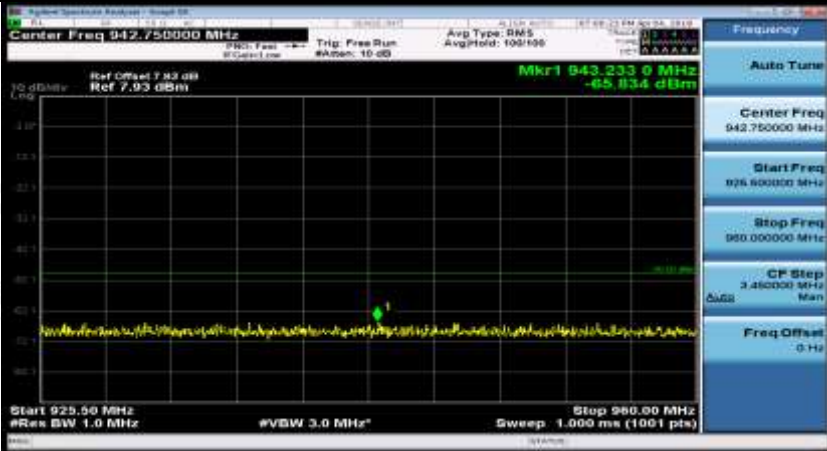
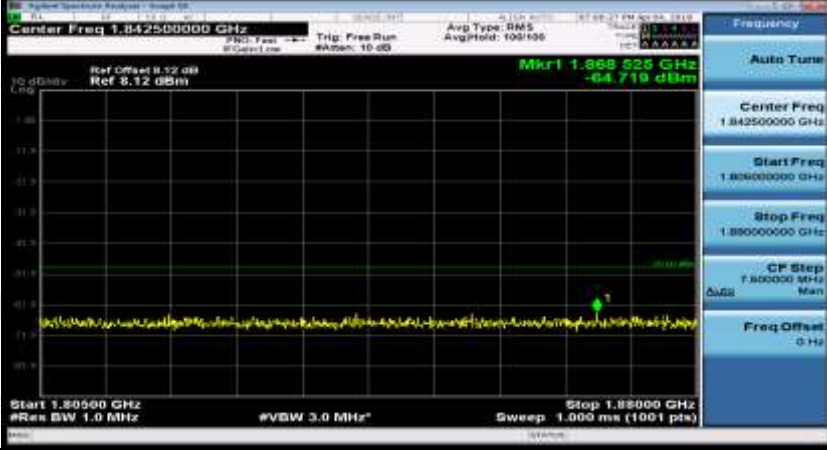
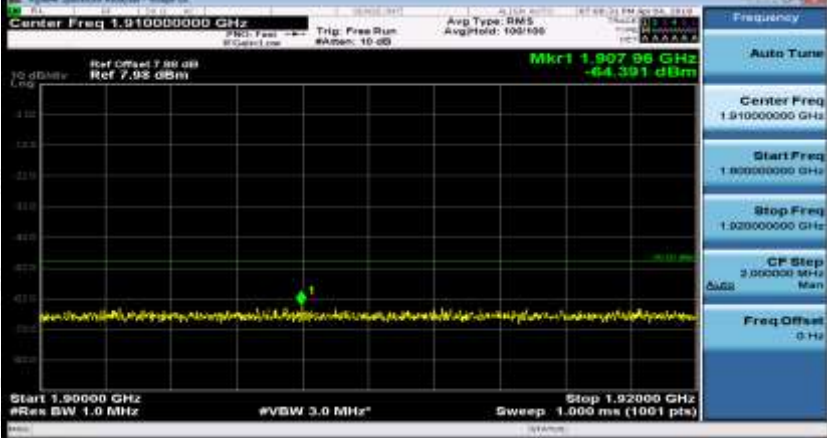
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General			
General			
General			

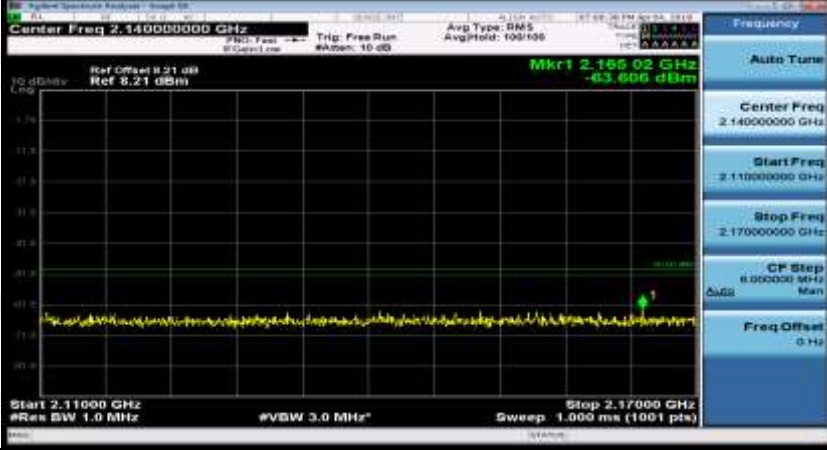
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General			
General			
Co-existence			

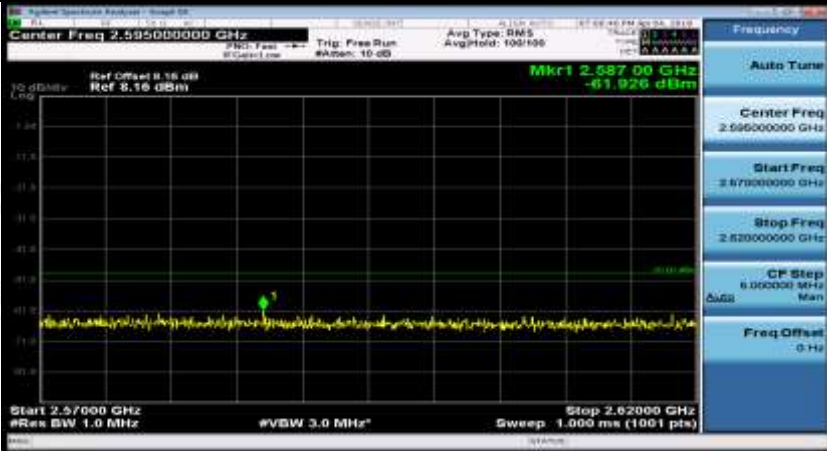
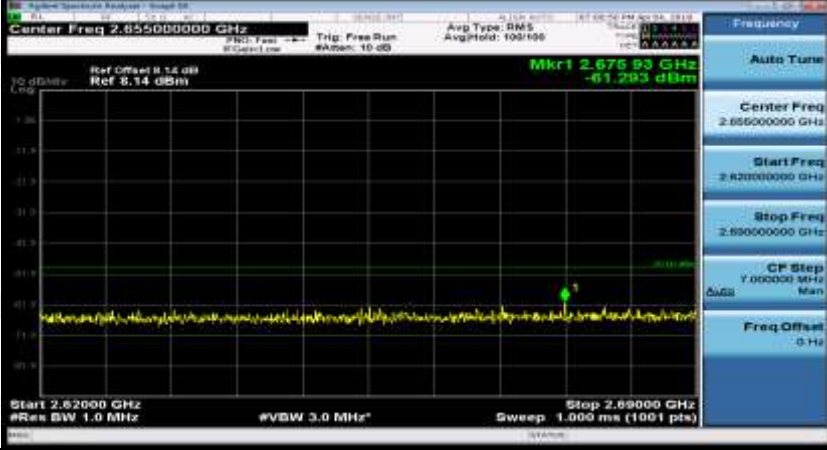
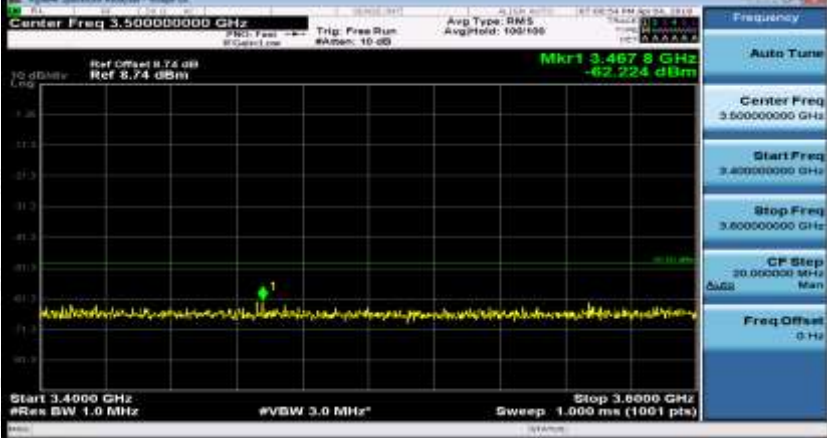
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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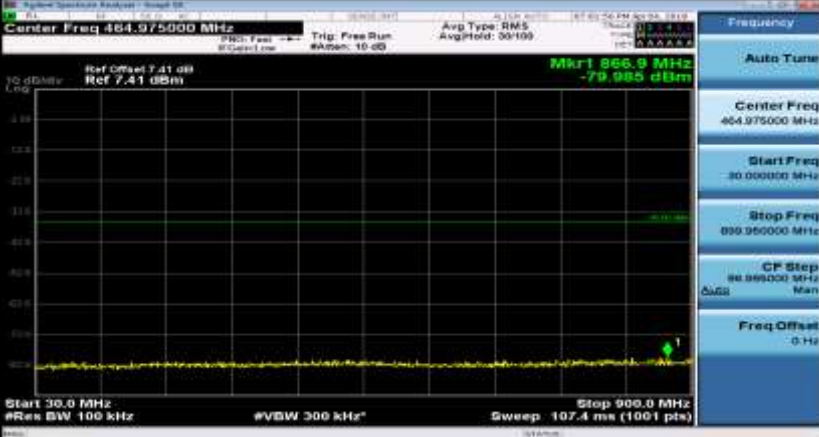
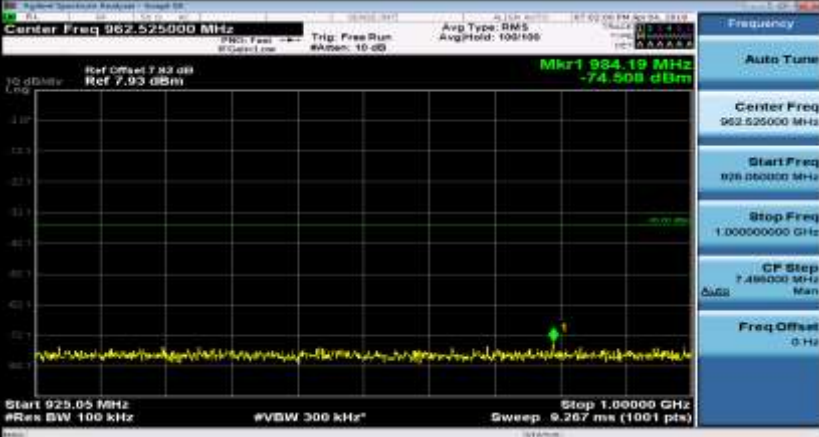
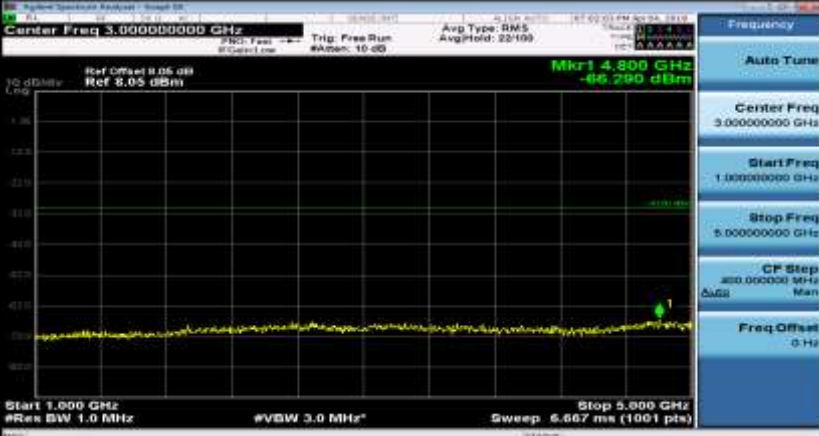
Co-existence	
Co-existence	
Co-existence	

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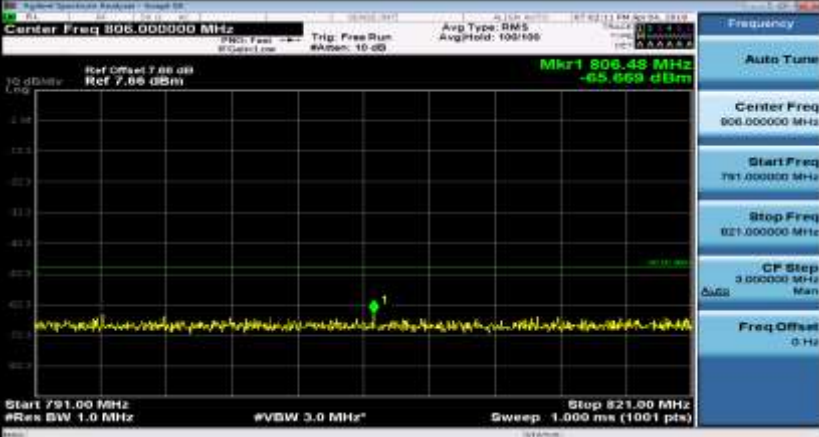
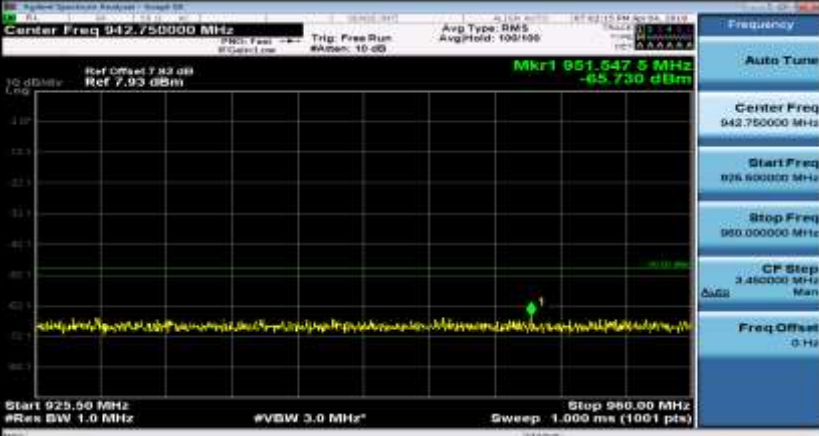
Co-existence	
Additional	NA

Channel Bandwidth= (5 MHz)_QPSK_HCH_FullIRB#0	
General	
General	

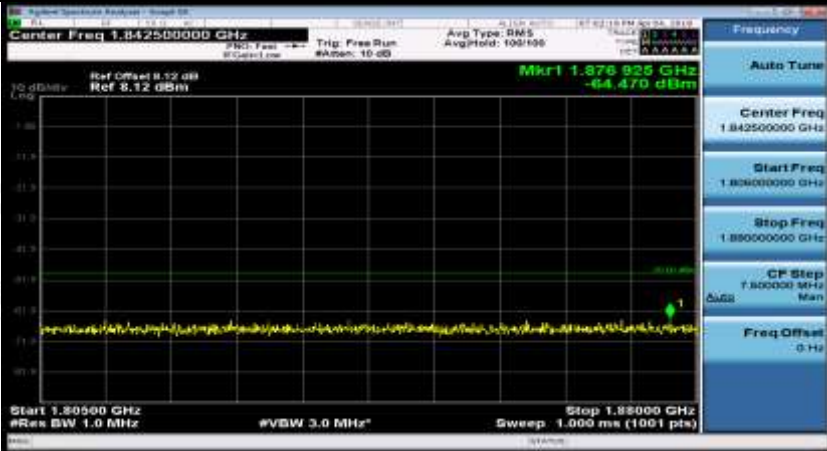
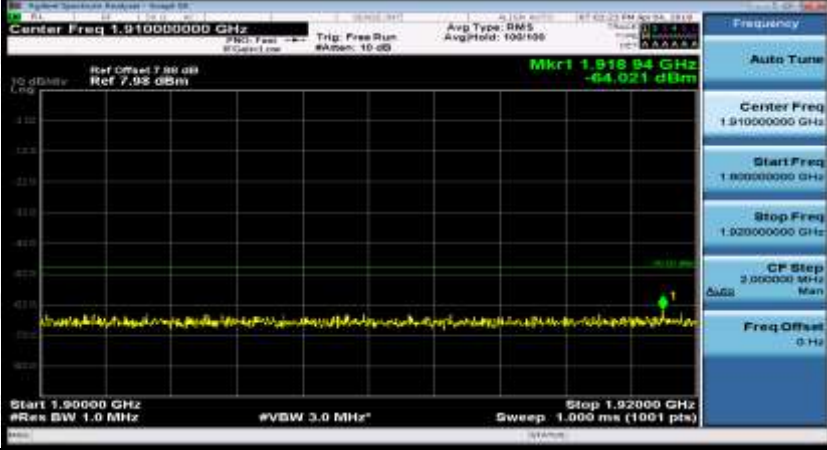
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General			
General			
General			

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General			
Co-existence			
Co-existence			

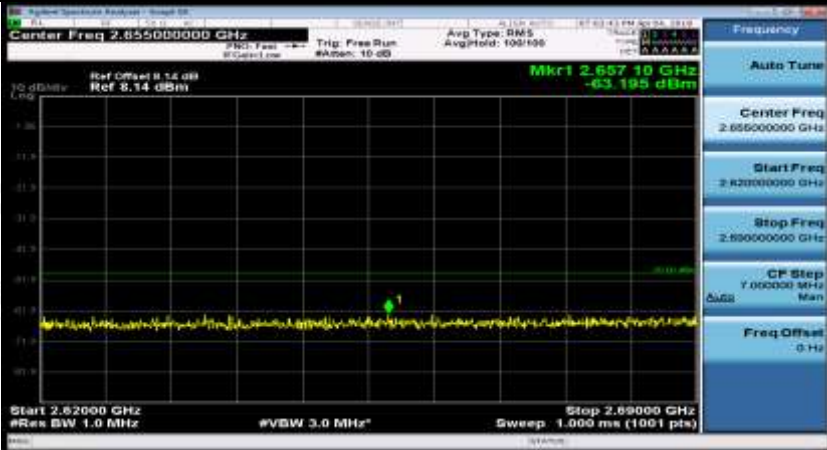
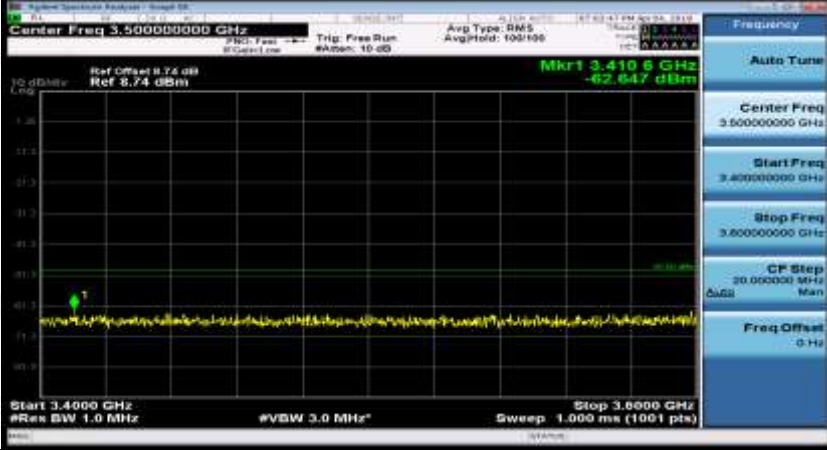

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Co-existence	
Co-existence	
Co-existence	

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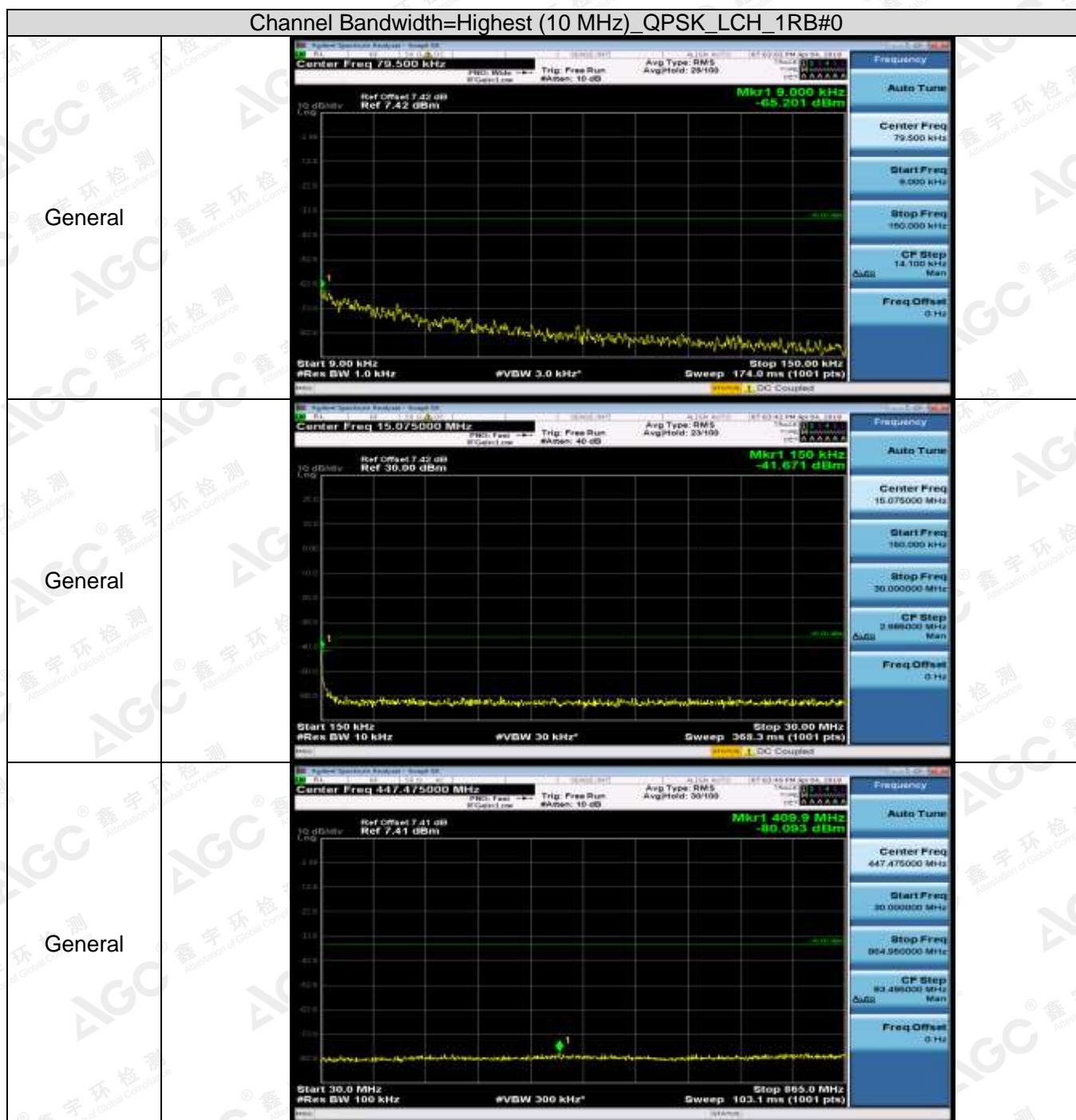
Co-existence	
Co-existence	
Co-existence	

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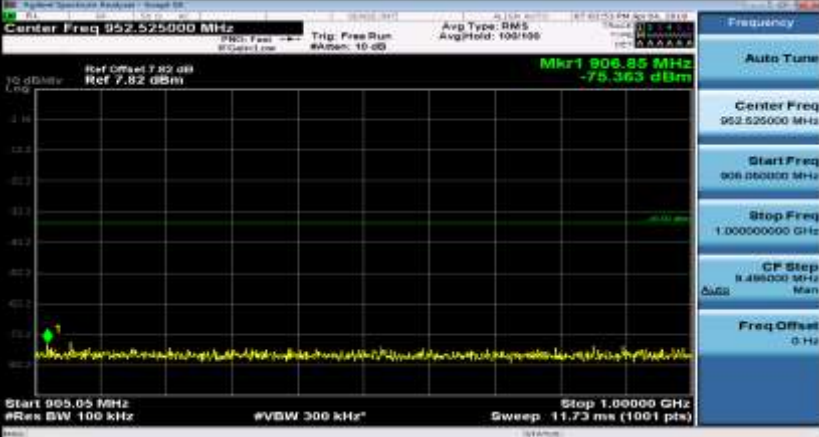


Co-existence	
Co-existence	
Co-existence	
Additional	NA

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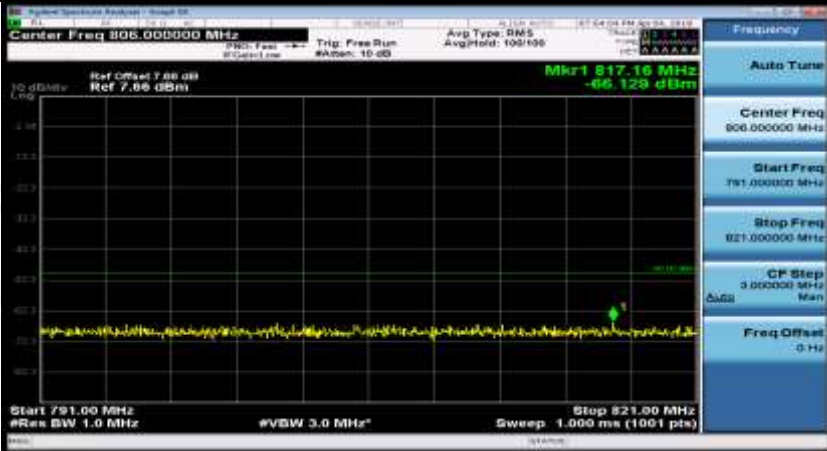
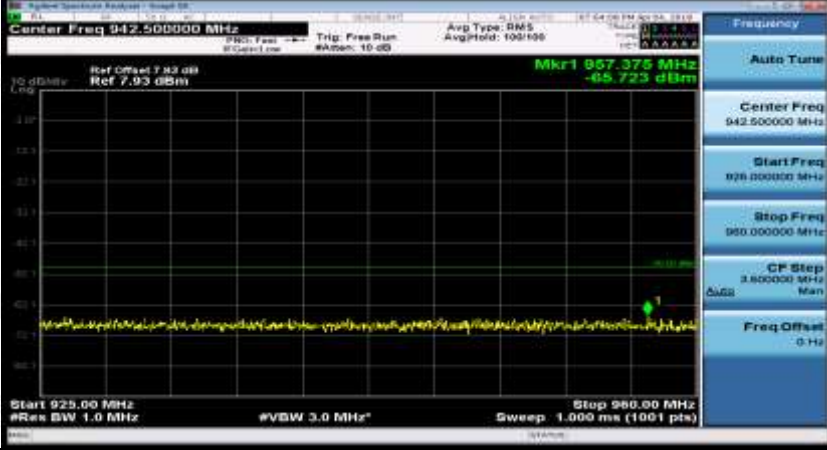
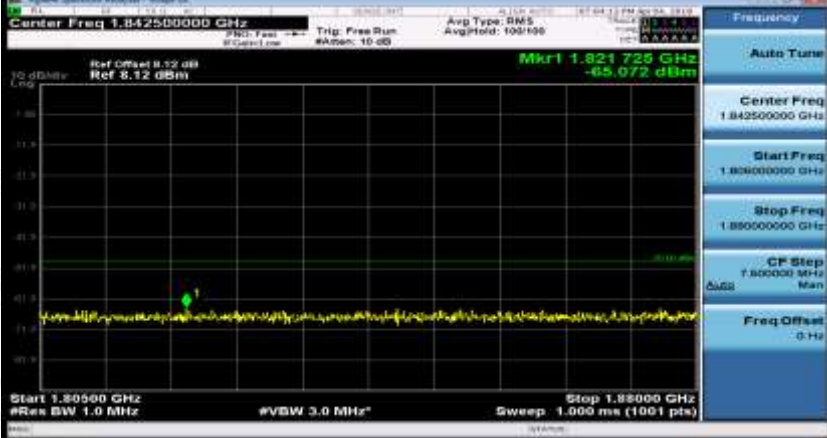
Channel Bandwidth= (10 MHz)



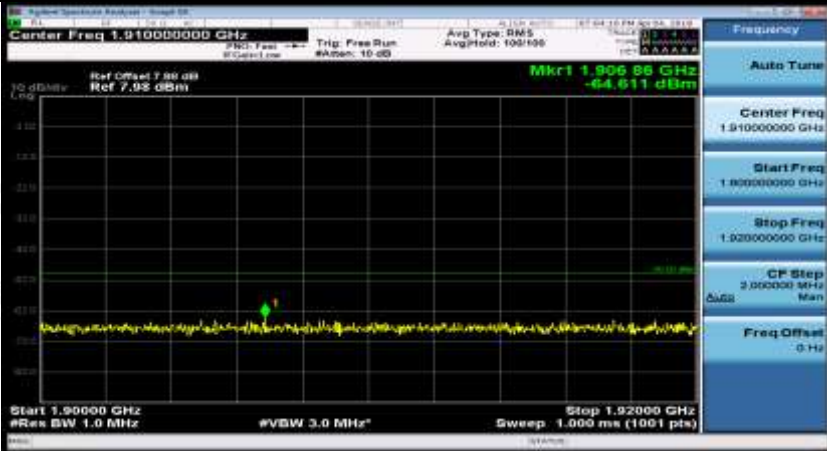
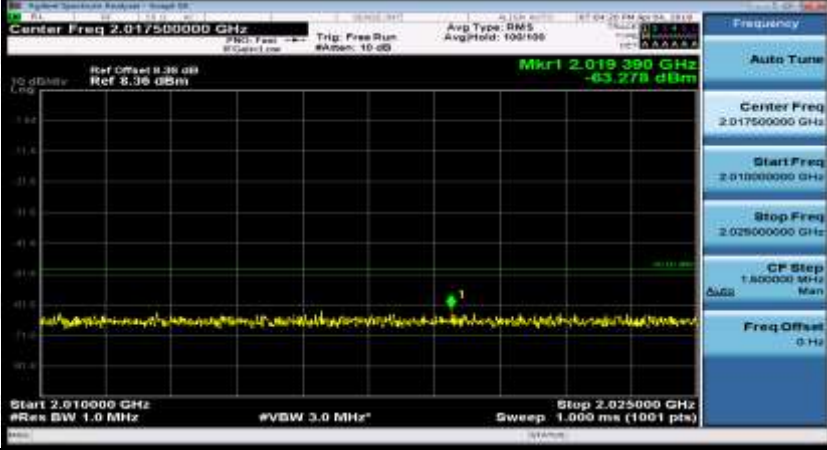
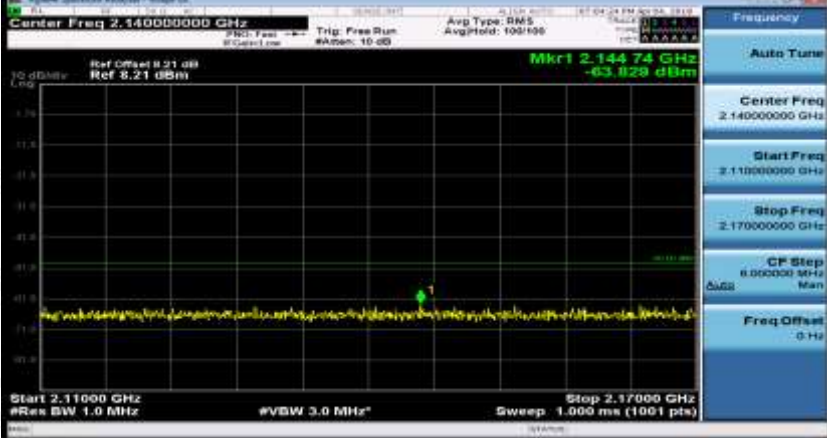
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General			
General			
General			


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Co-existence	
Co-existence	
Co-existence	

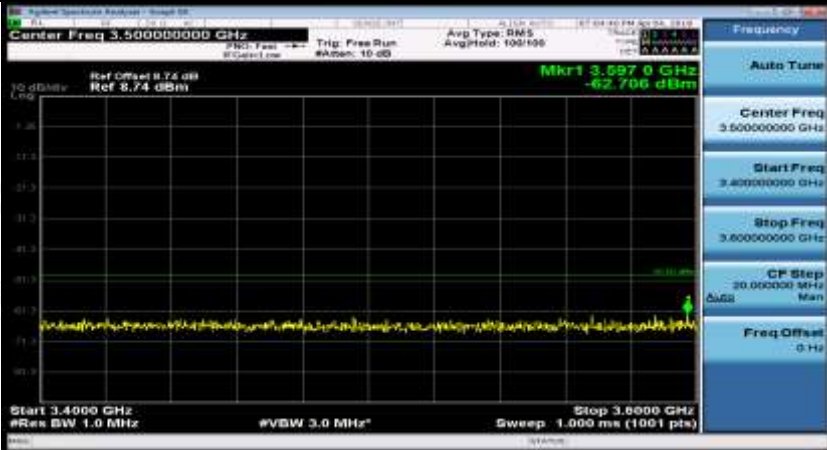
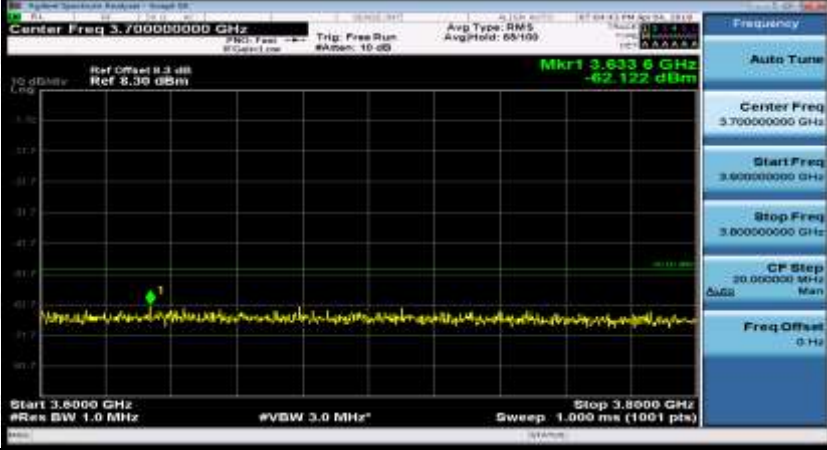
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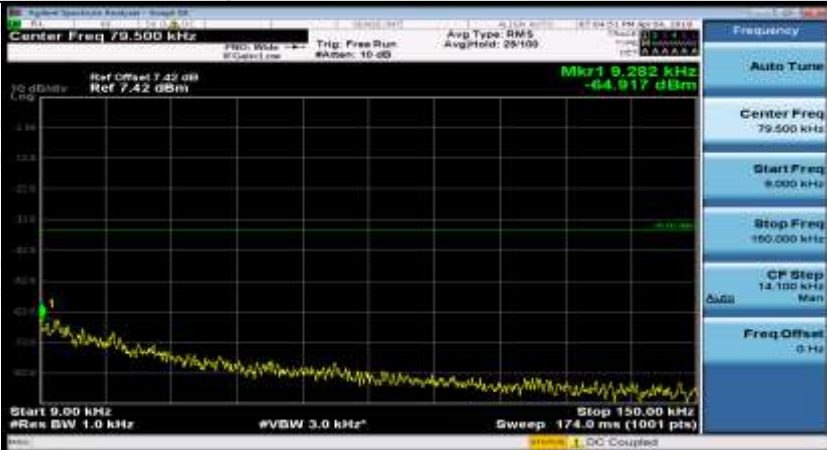
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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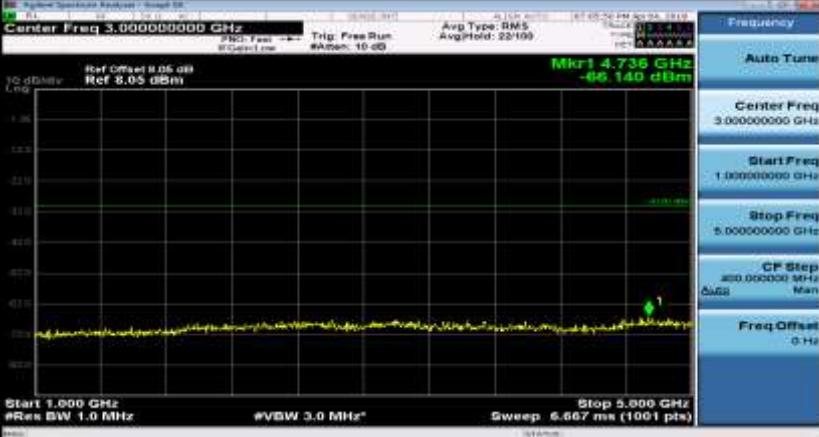
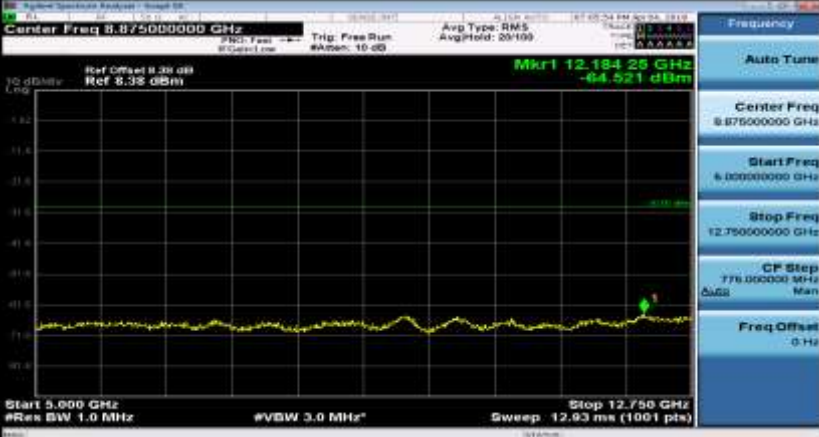
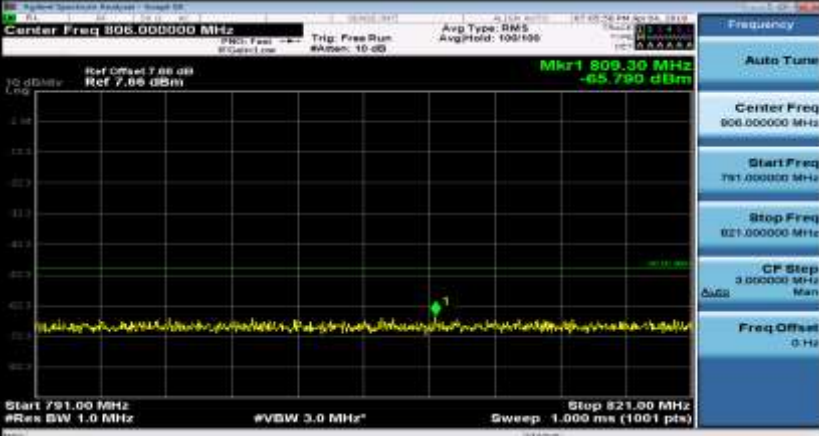
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (10MHz)_QPSK_LCH_1RB#max	
General	

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General			
General			
General			

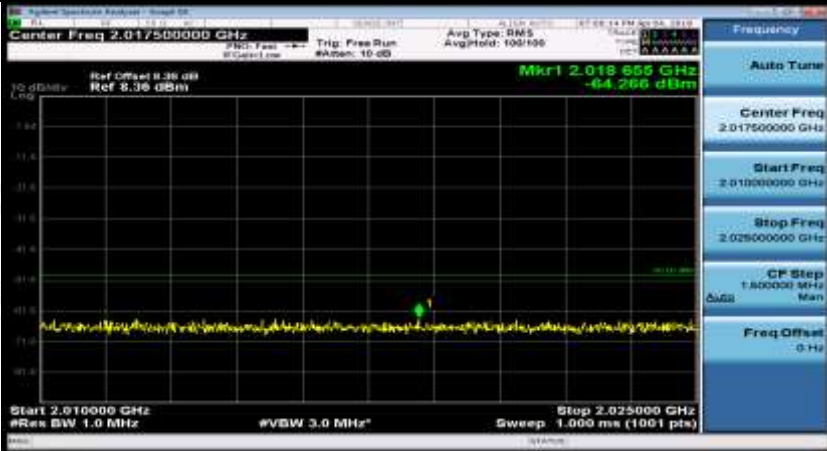
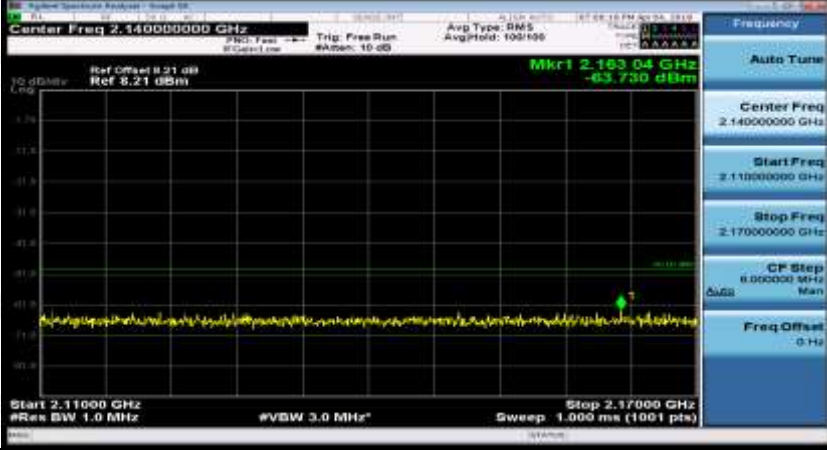
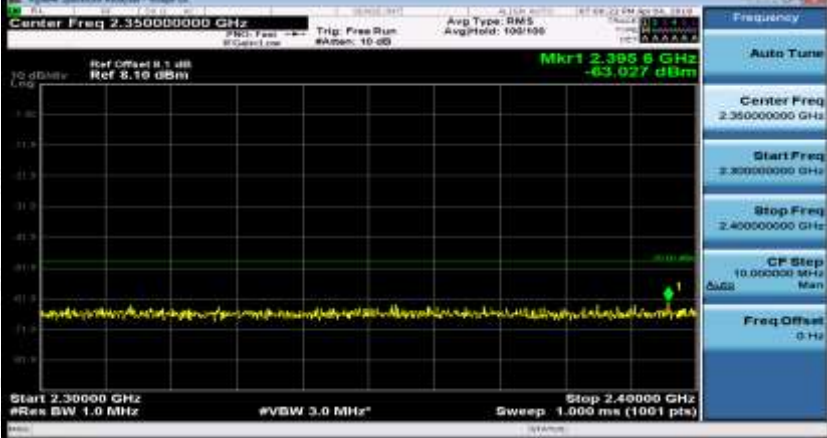
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General			
General			
Co-existence			

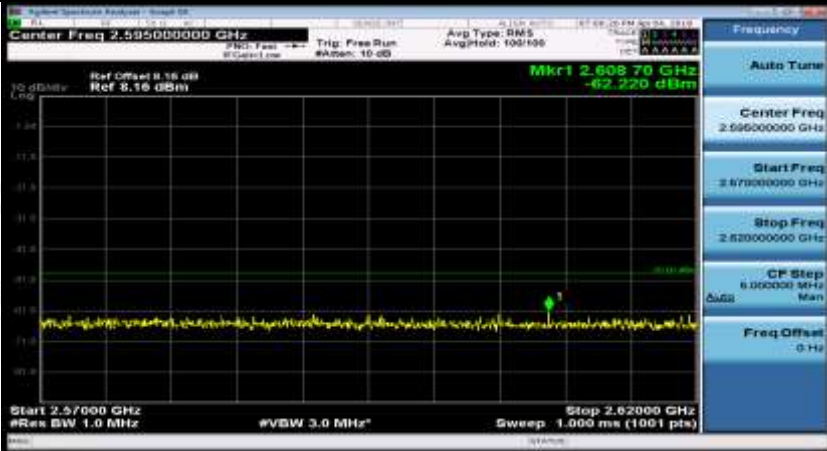
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Co-existence	
Co-existence	
Co-existence	

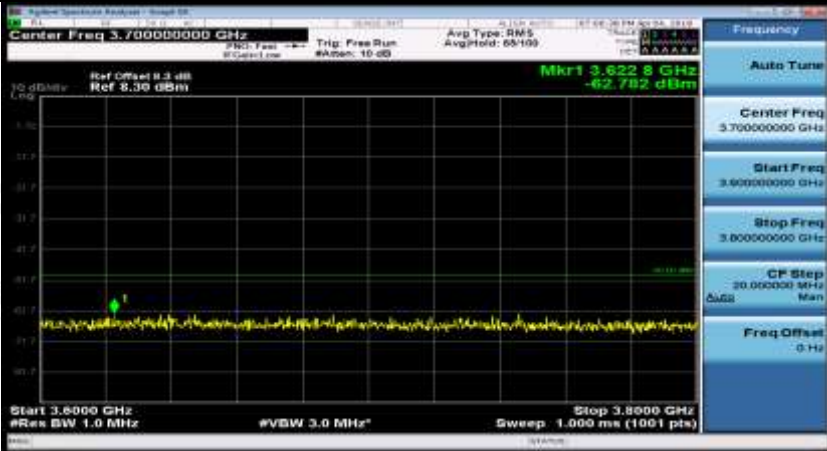
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Co-existence	
Co-existence	
Co-existence	

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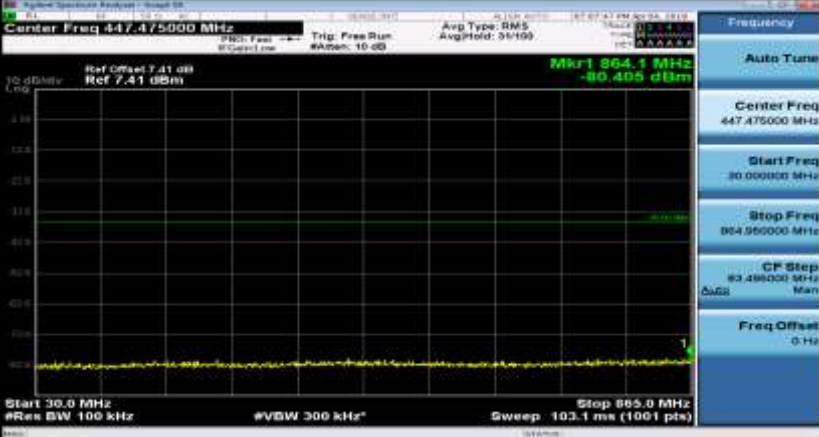
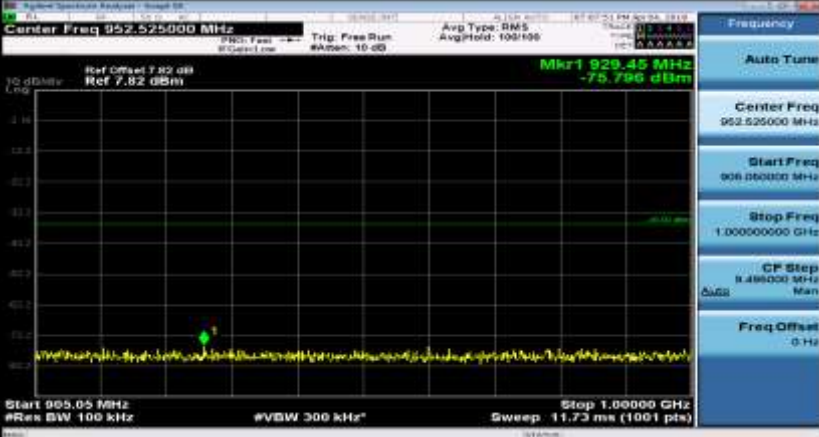

Co-existence	
Co-existence	
Co-existence	

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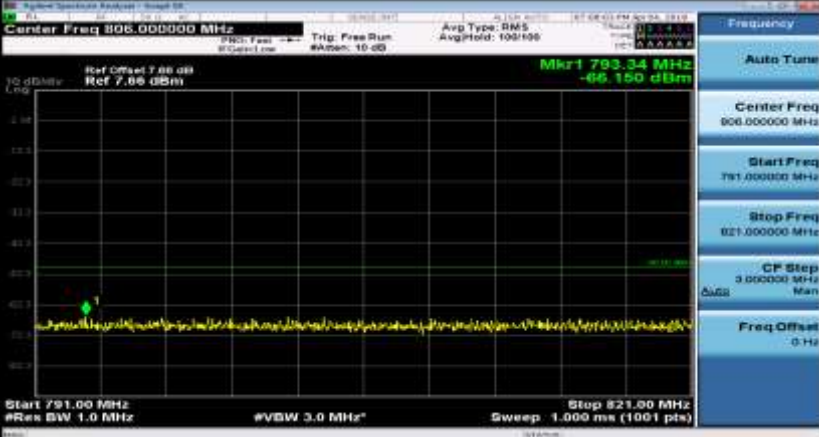
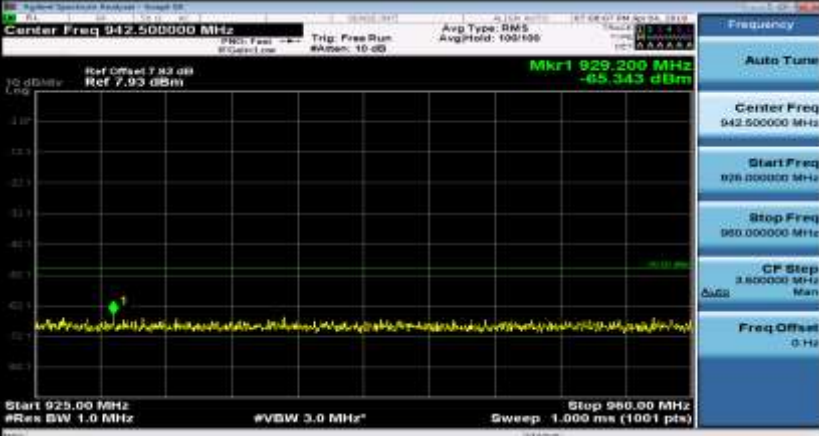
Co-existence	
Additional	NA

Channel Bandwidth=Highest (10 MHz)_QPSK_LCH_FullRB#0	
General	
General	

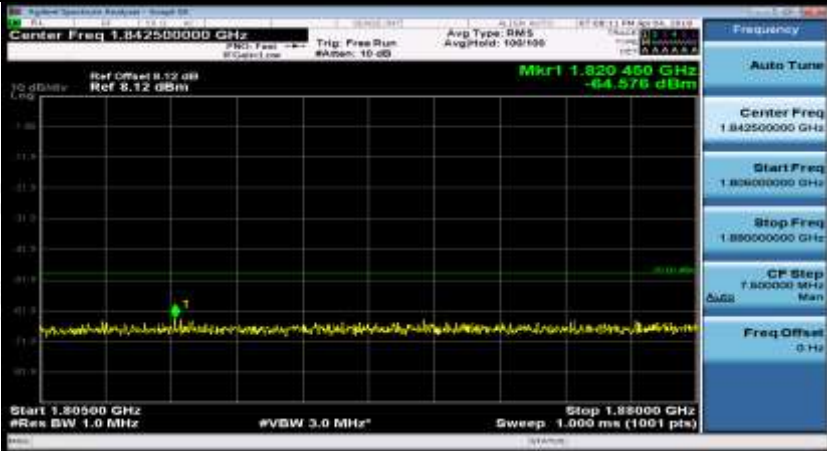
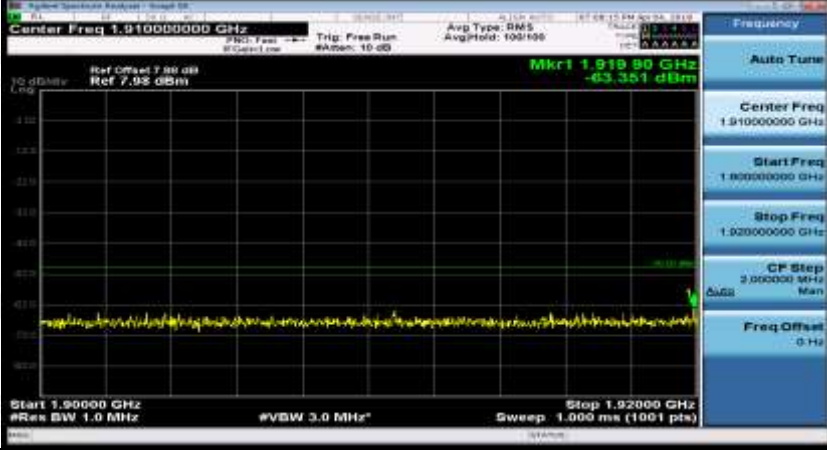
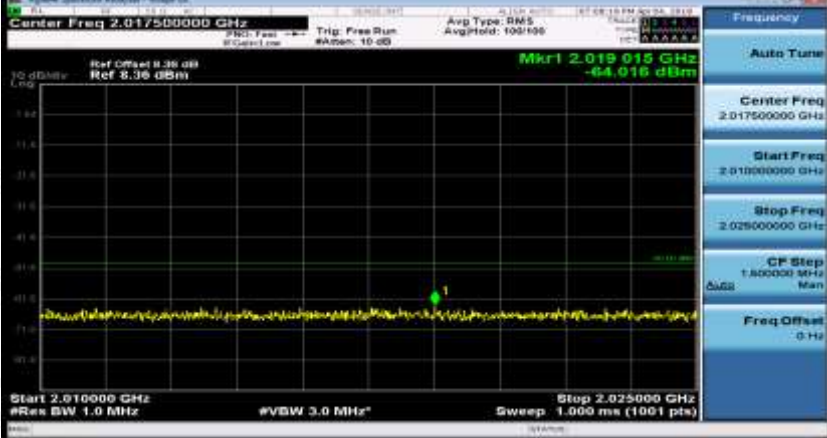
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General			
General			
General			

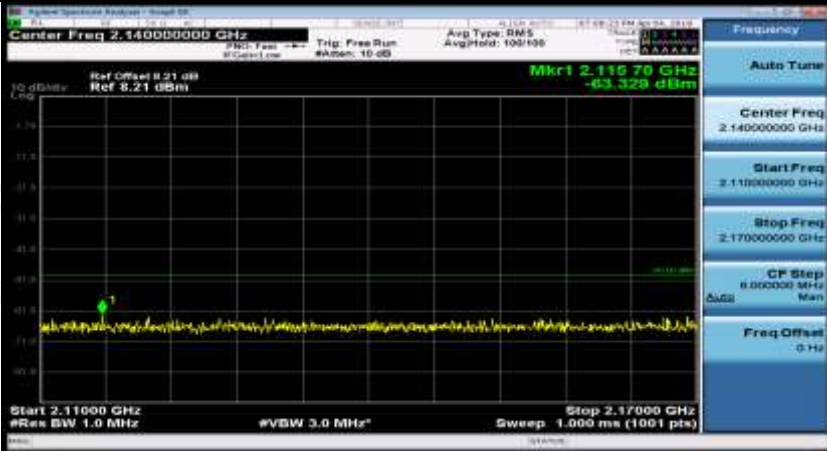
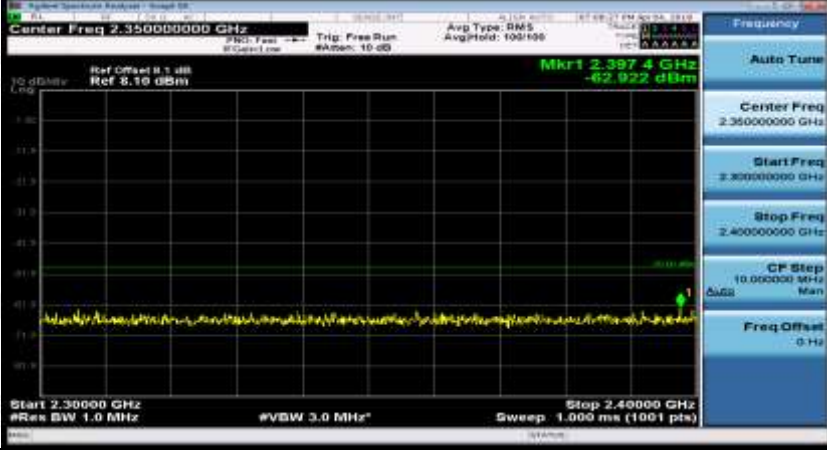

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General			
Co-existence			
Co-existence			

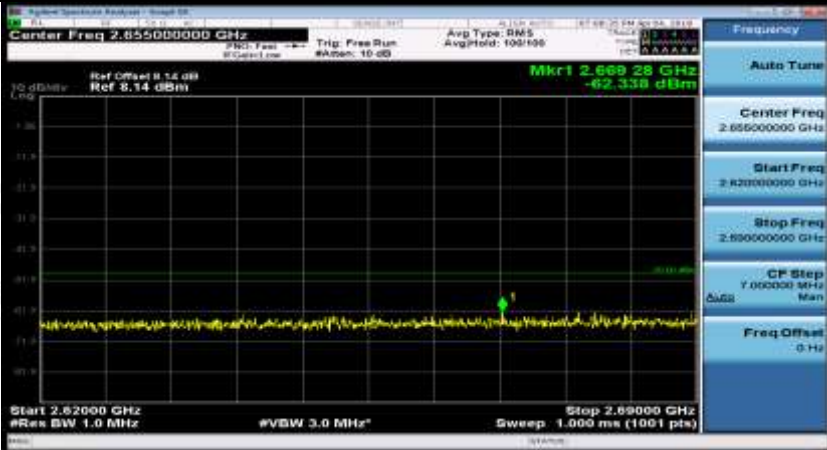
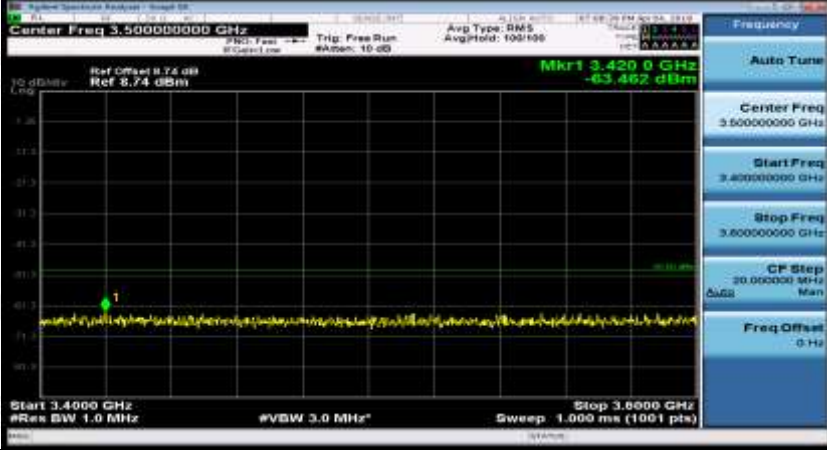

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Co-existence	
Co-existence	
Co-existence	

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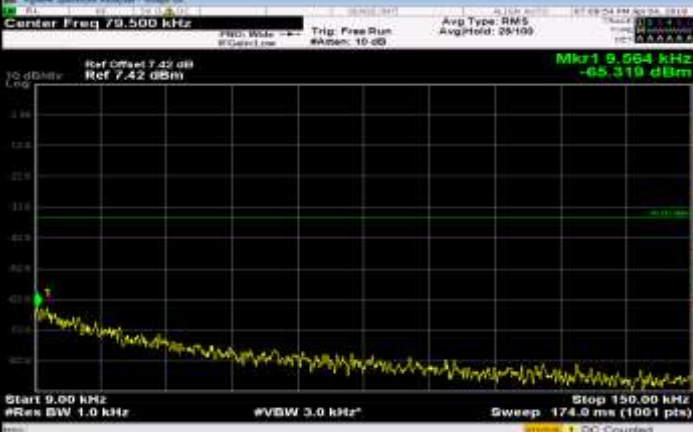
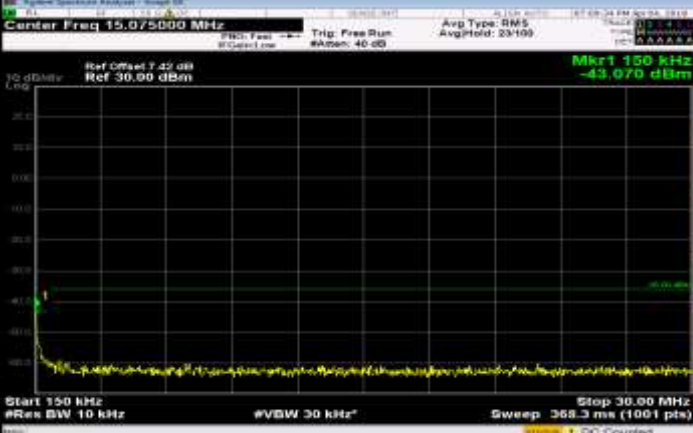
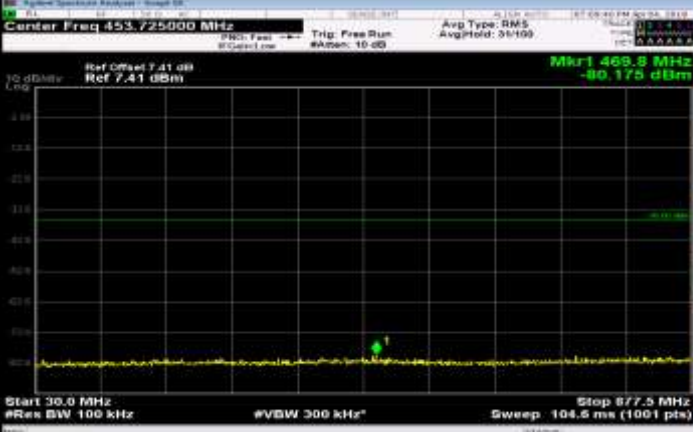
Co-existence	
Co-existence	
Co-existence	

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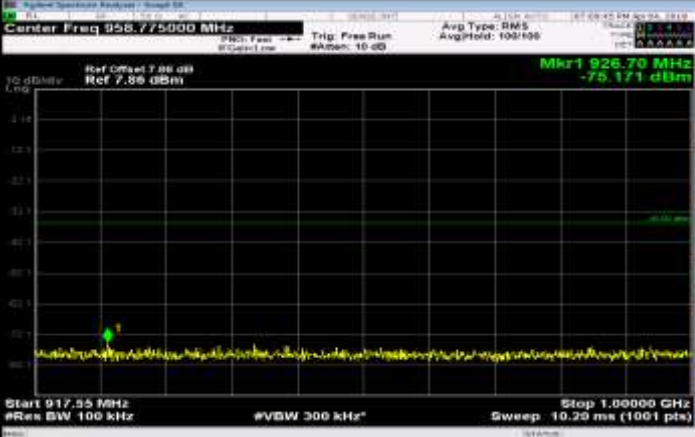
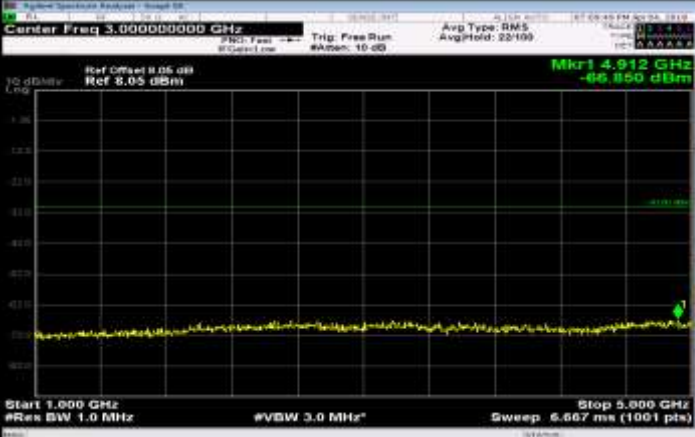

Co-existence	
Co-existence	
Co-existence	
Additional	NA

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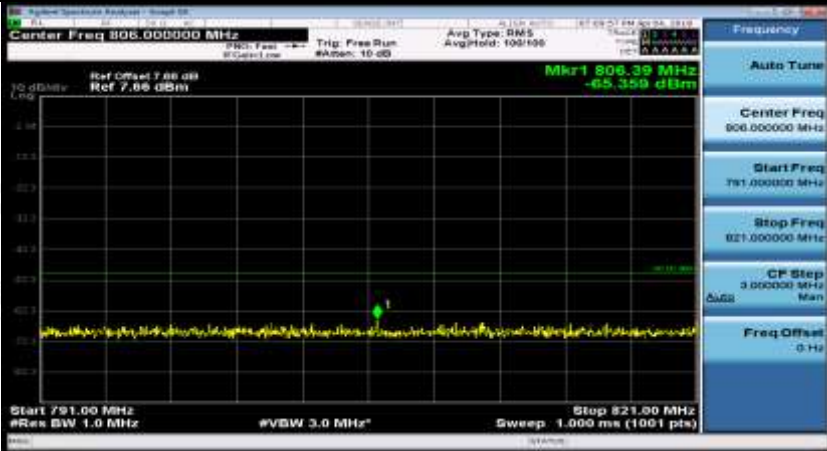
Channel Bandwidth=Highest (10 MHz)_QPSK_MCH_1RB#0

General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 79.500 kHz</p> <p>Start Freq 8.000 kHz</p> <p>Stop Freq 150.000 kHz</p> <p>CF Step 14.100 kHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 15.075000 MHz</p> <p>Start Freq 180.000 kHz</p> <p>Stop Freq 30.000000 MHz</p> <p>CF Step 3.999000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General			<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 453.725000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 877.450000 MHz</p> <p>CF Step 84.745000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>

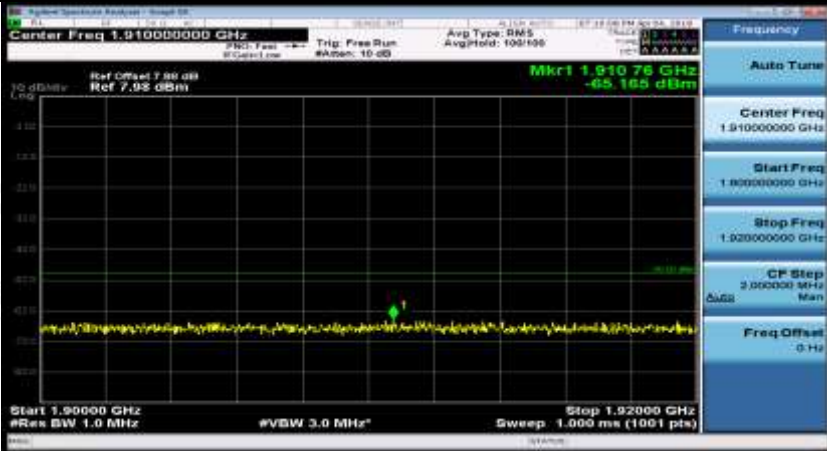
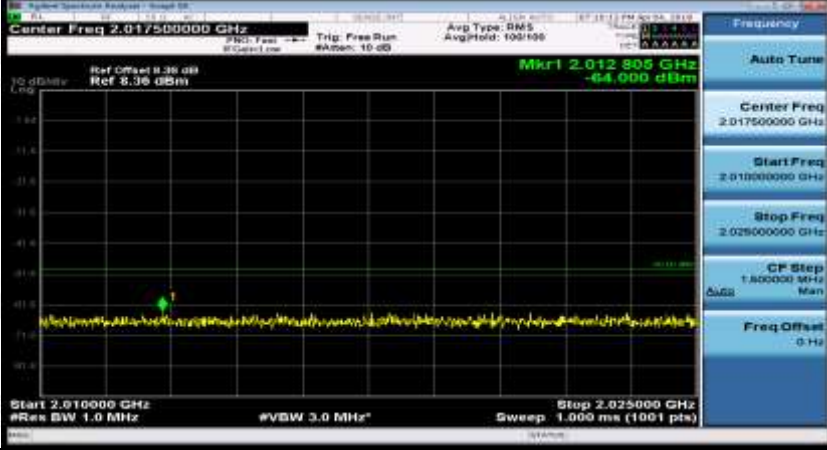
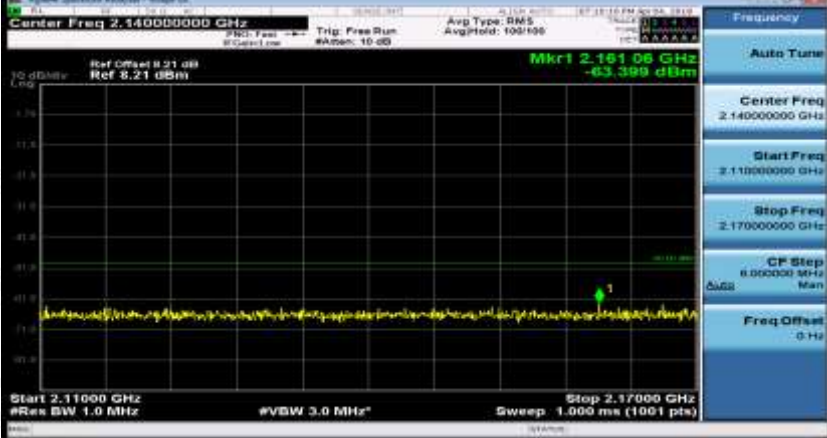
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General			
General			
General			

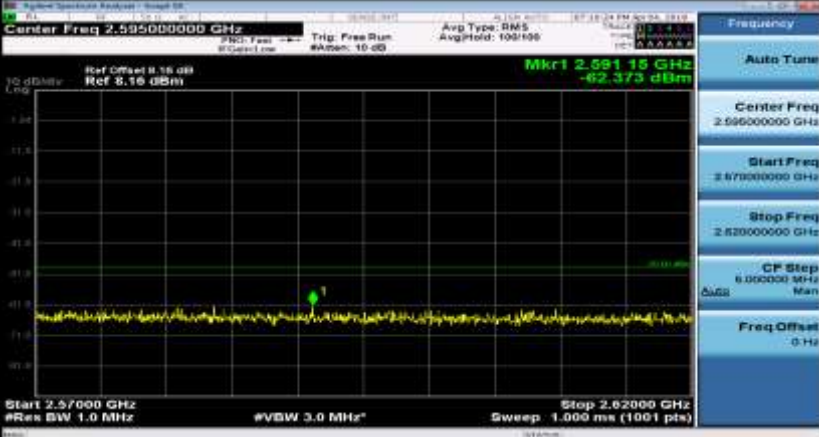
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Co-existence	
Co-existence	
Co-existence	

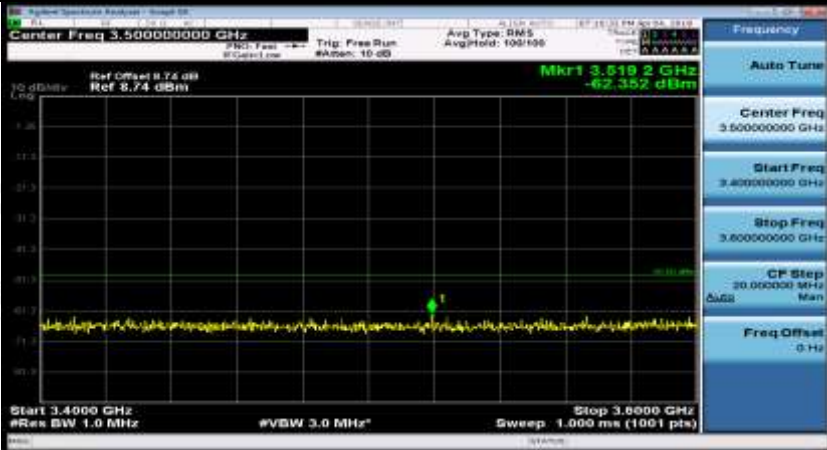
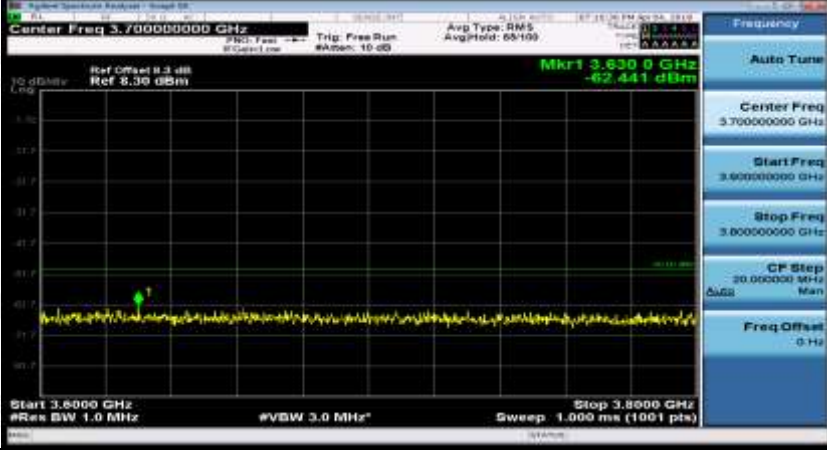
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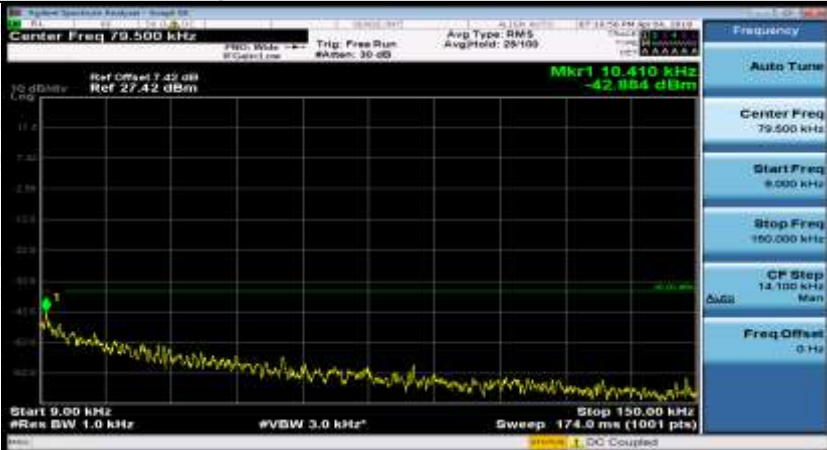
Co-existence	
Co-existence	
Co-existence	

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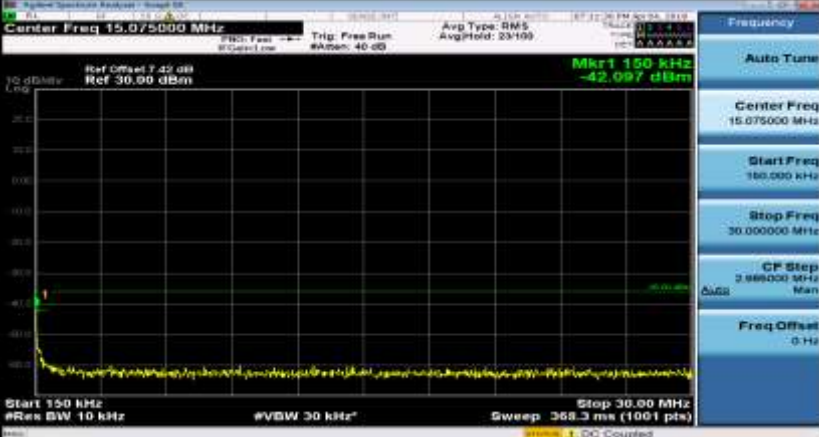
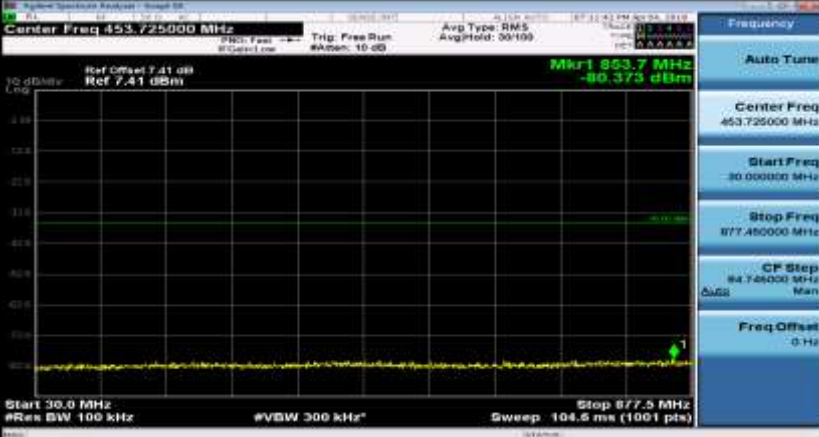
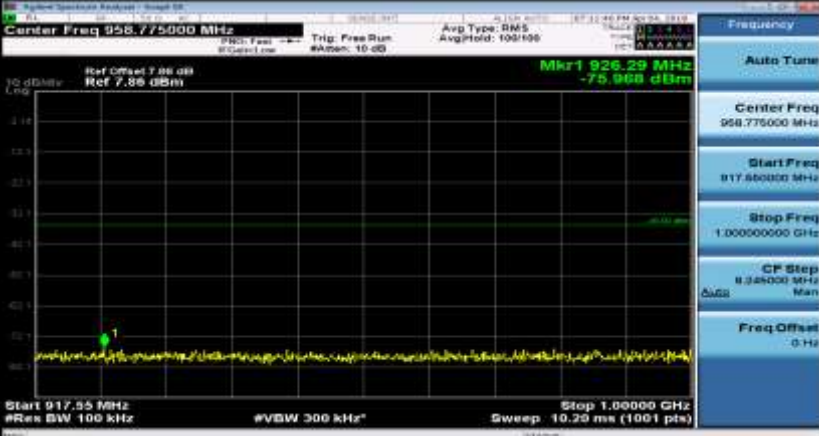
Co-existence			
Co-existence			
Co-existence			

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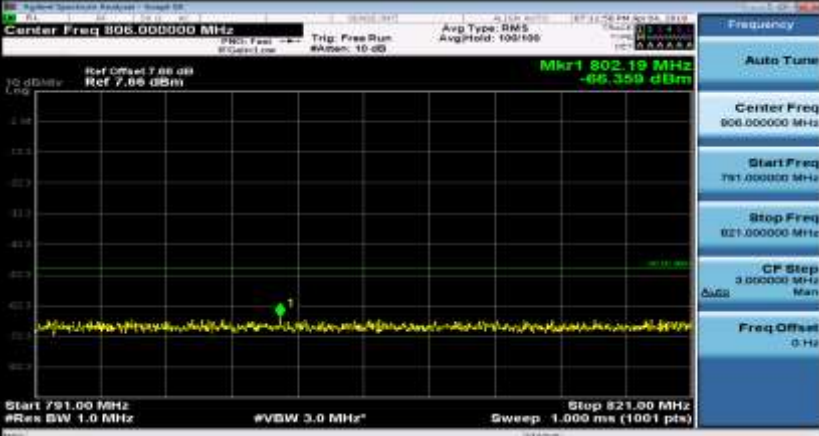
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (10 MHz)_QPSK_MCH_1RB#max	
General	

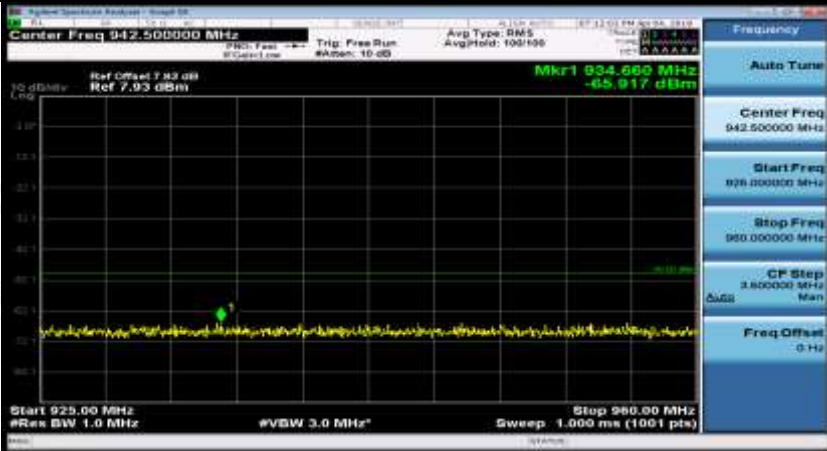
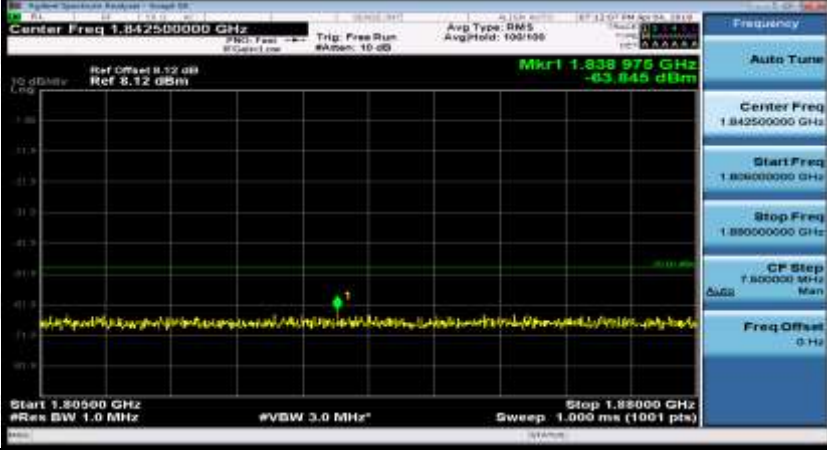
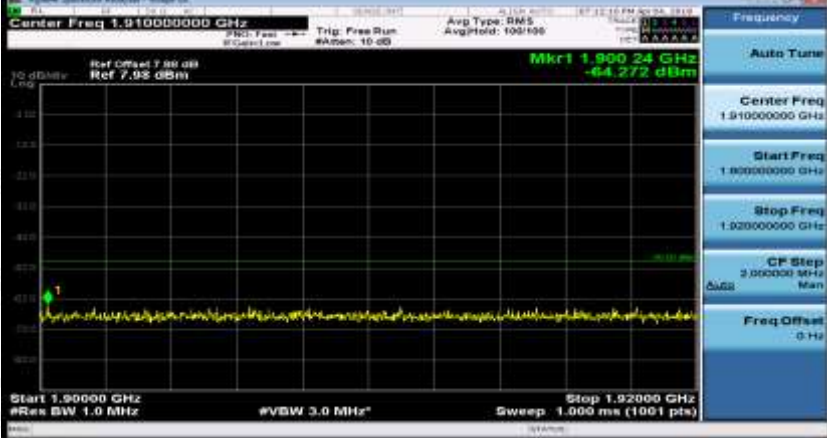
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General			
General			
General			

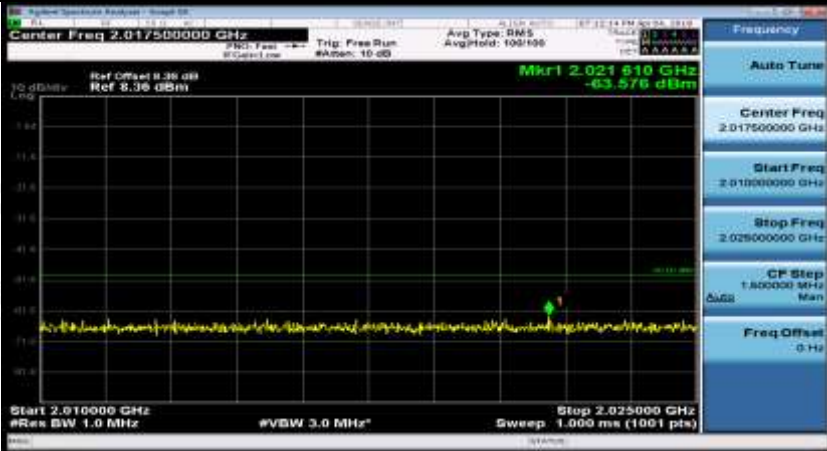
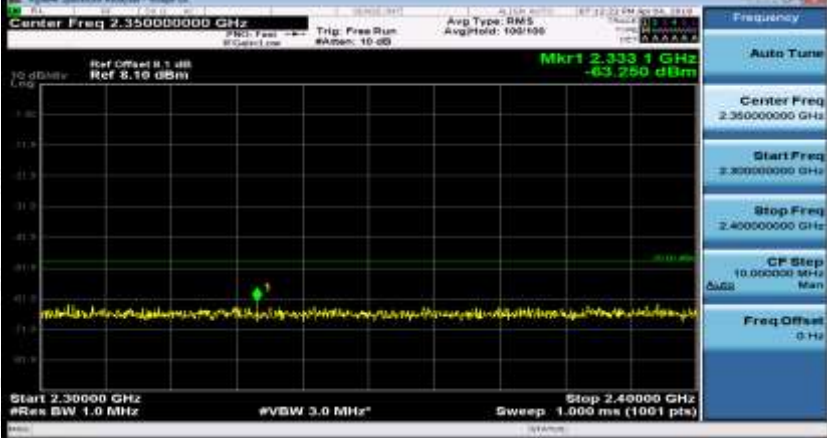
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General			
General			
Co-existence			

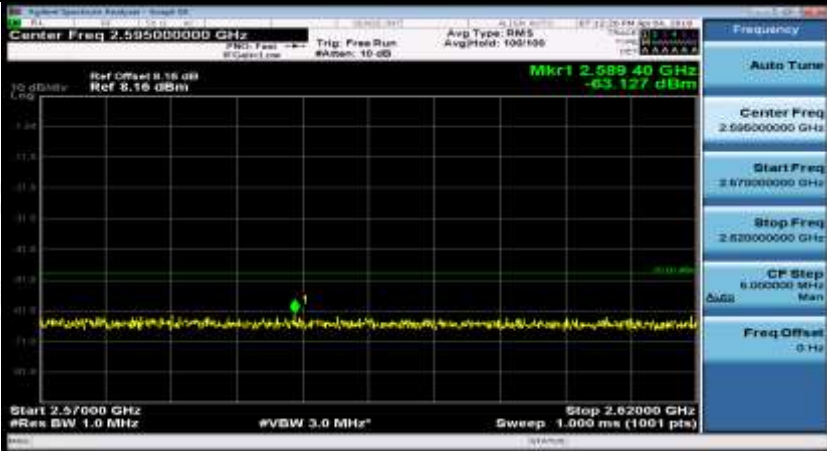

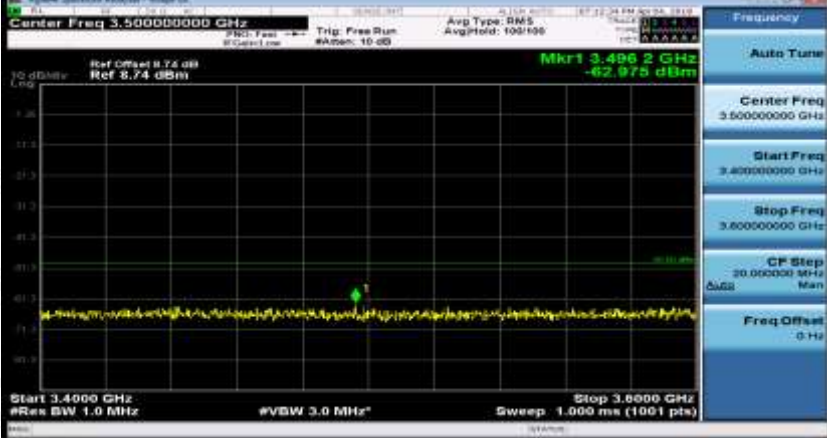
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Co-existence	
Co-existence	
Co-existence	

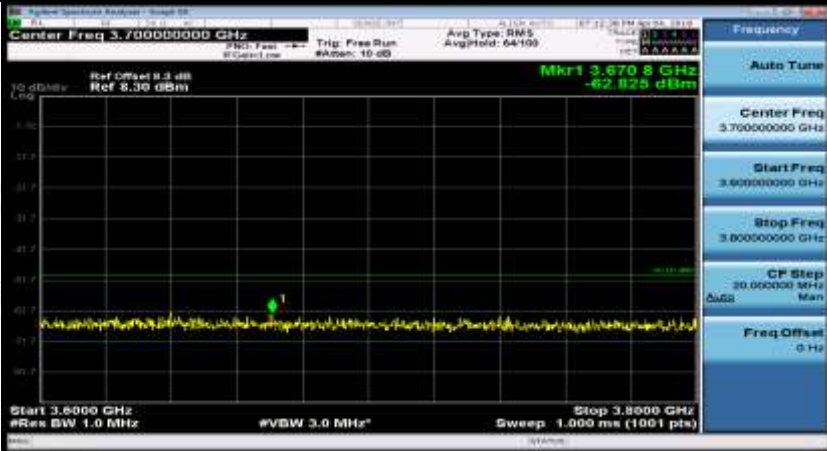
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Additional	NA

Channel Bandwidth=Highest (10 MHz)_QPSK_MCH_FullRB#0	
General	
General	

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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 453.725000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 877.450000 MHz</p> <p>CF Step 84.745000 MHz Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 958.775000 MHz</p> <p>Start Freq 917.850000 MHz</p> <p>Stop Freq 1.00000000 GHz</p> <p>CF Step 8.945000 MHz Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 3.00000000 GHz</p> <p>Start Freq 1.00000000 GHz</p> <p>Stop Freq 5.00000000 GHz</p> <p>CF Step 200.000000 MHz Man</p> <p>Freq Offset 0 Hz</p>

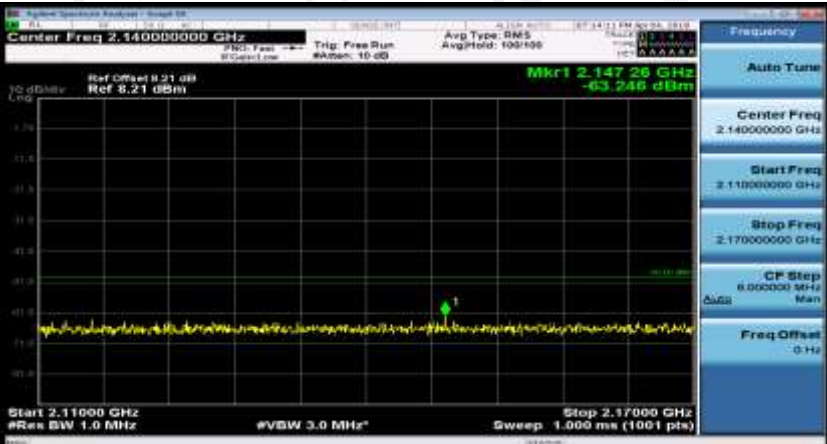
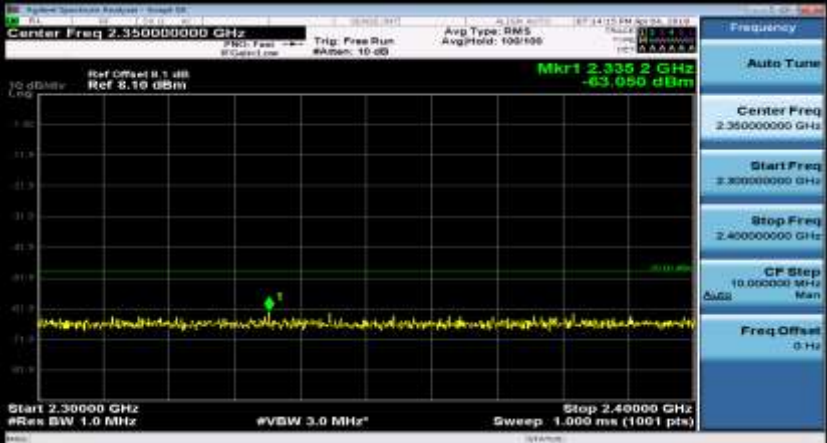
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General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 8.87500000 GHz</p> <p>Start Freq 8.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 775.000000 MHz</p> <p>ΔdBs Man</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 806.000000 MHz</p> <p>Start Freq 751.000000 MHz</p> <p>Stop Freq 821.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>ΔdBs Man</p> <p>Freq Offset 0 Hz</p>
Co-existence		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 942.500000 MHz</p> <p>Start Freq 876.000000 MHz</p> <p>Stop Freq 960.000000 MHz</p> <p>CF Step 3.000000 MHz</p> <p>ΔdBs Man</p> <p>Freq Offset 0 Hz</p>

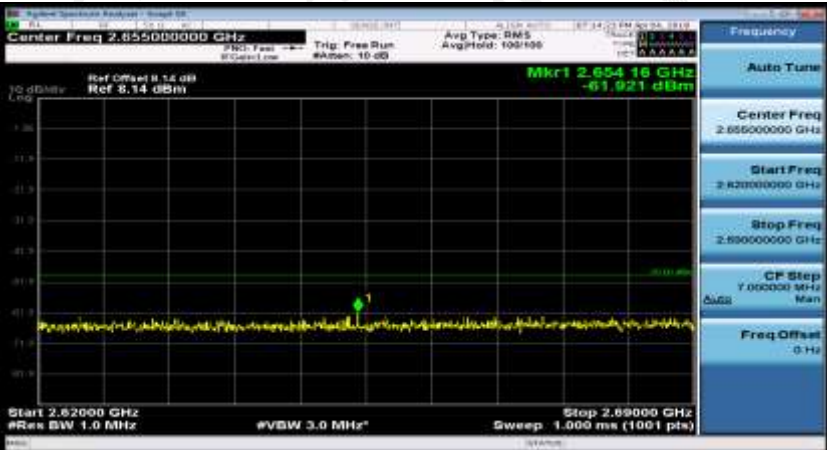
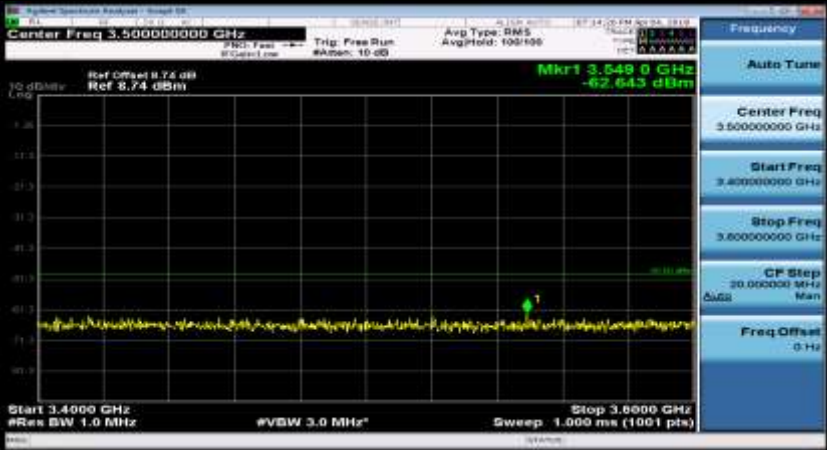
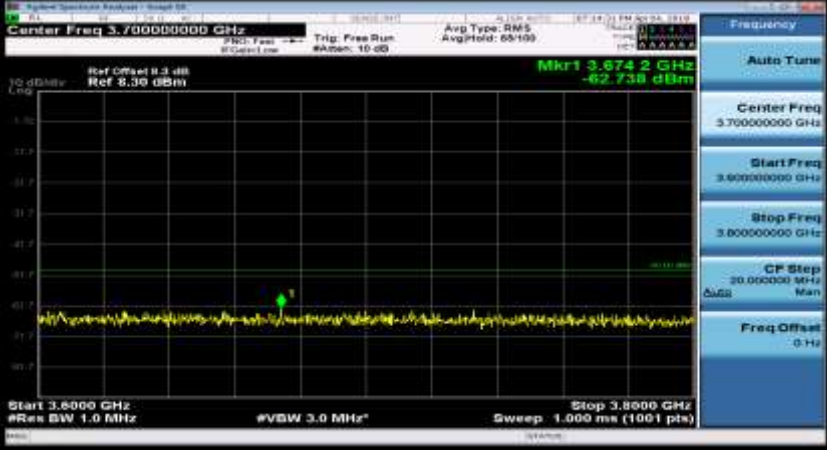
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Co-existence	
Co-existence	
Co-existence	

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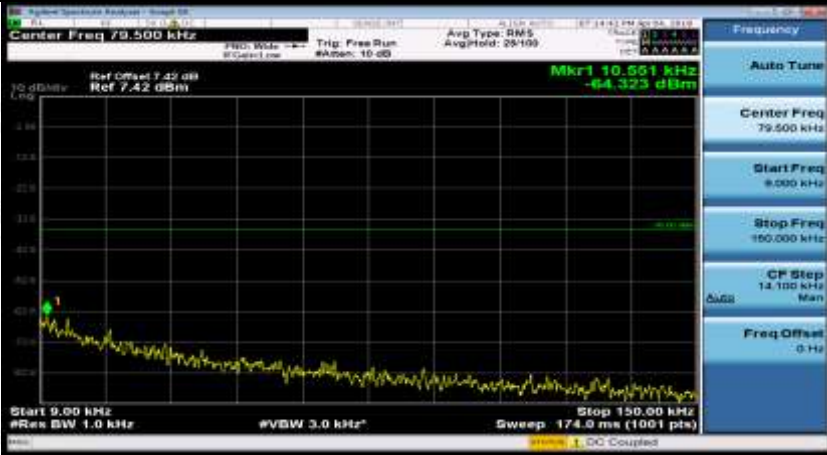

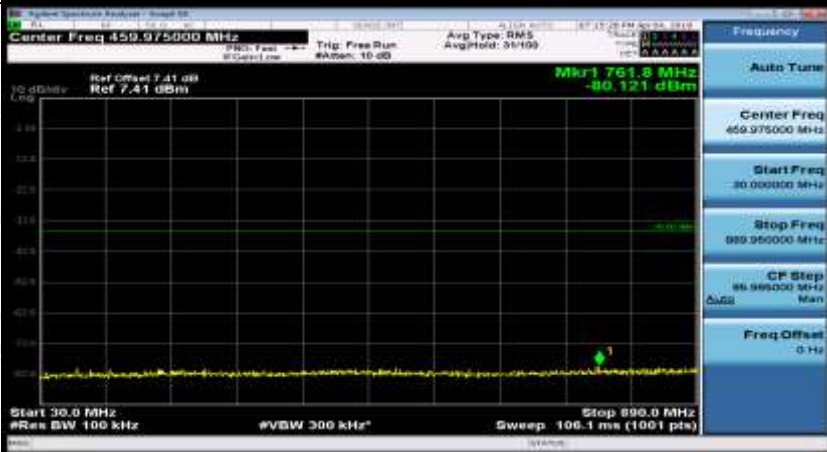
Co-existence	
Co-existence	
Co-existence	

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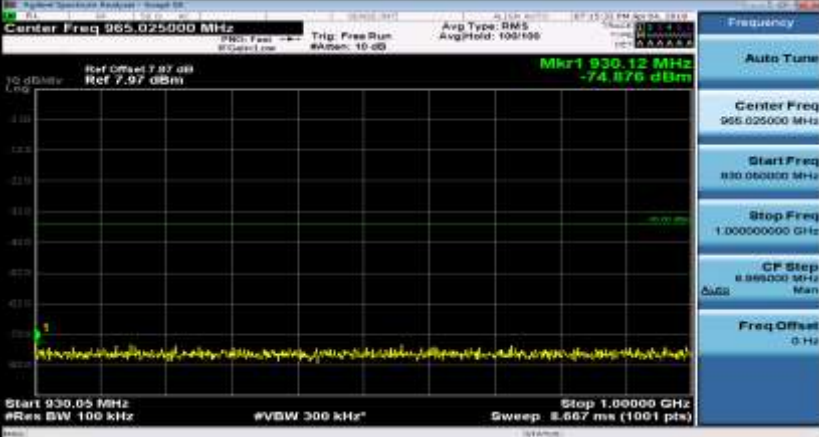
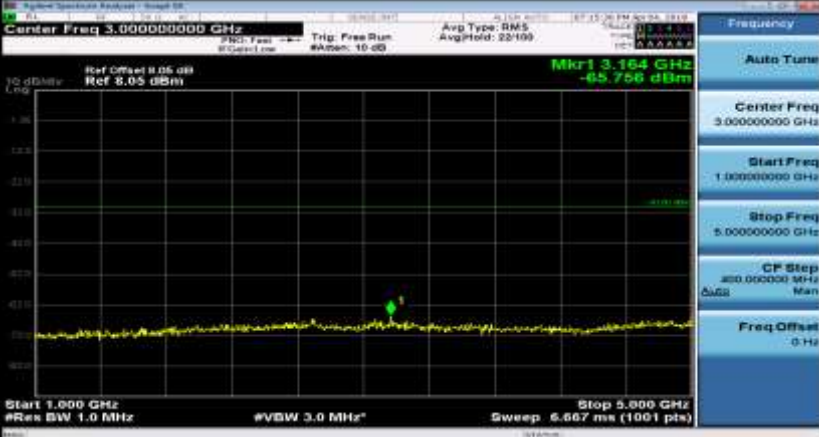

Co-existence	
Co-existence	
Co-existence	
Additional	NA

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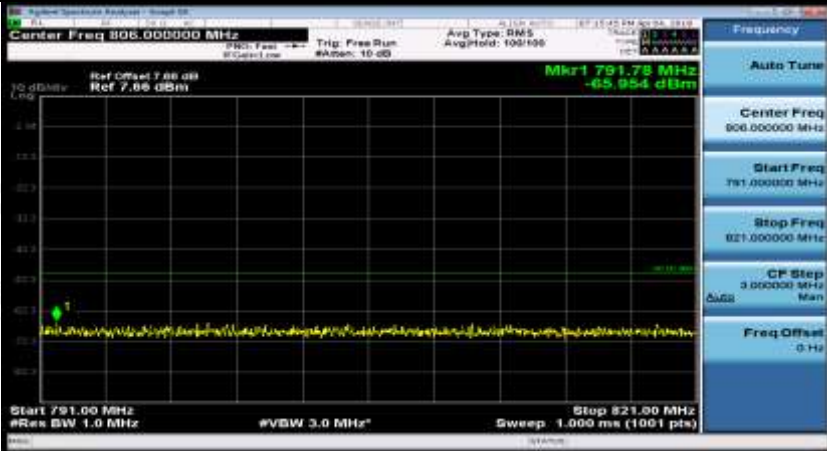
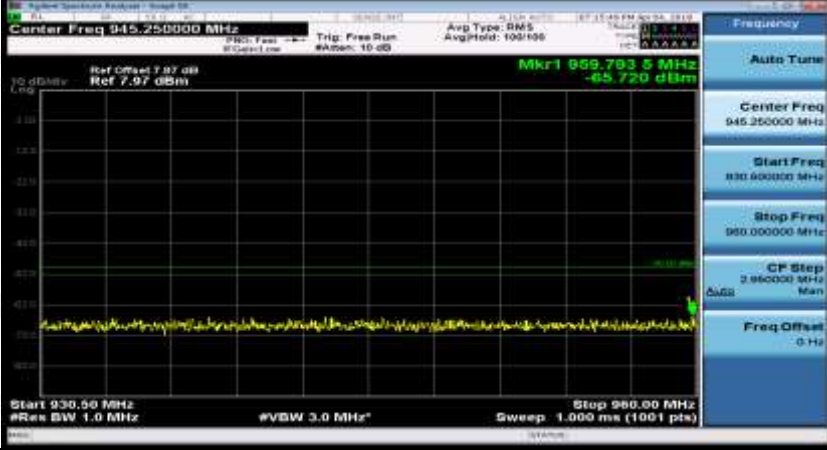
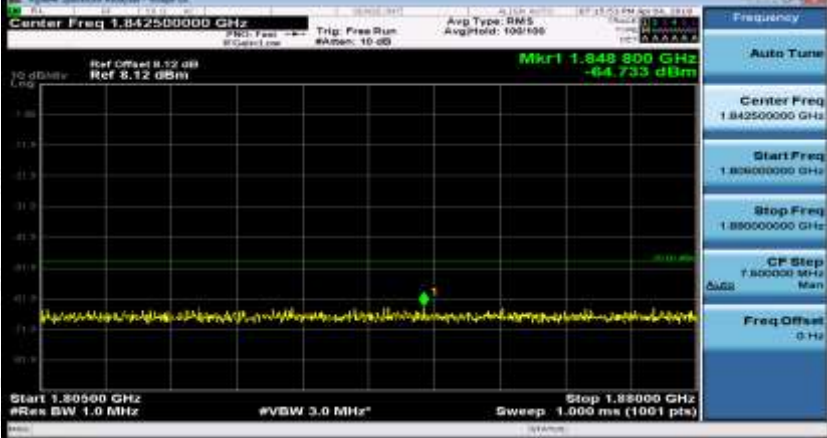
Channel Bandwidth=Highest (10 MHz)_QPSK_HCH_1RB#0

General	
General	
General	

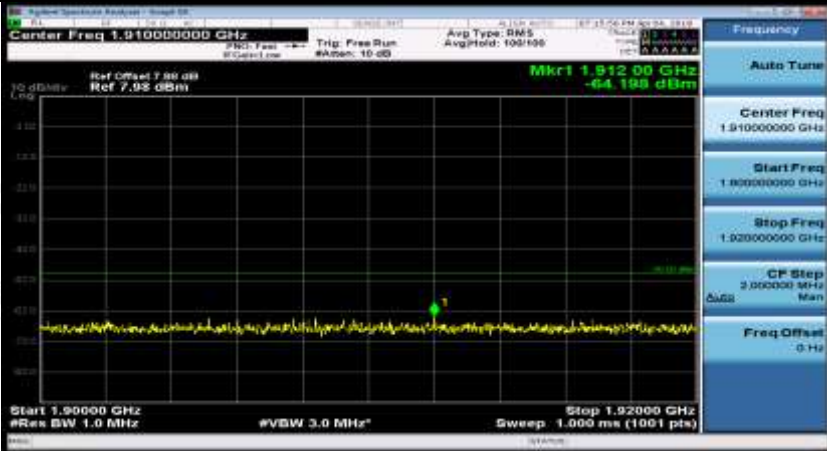
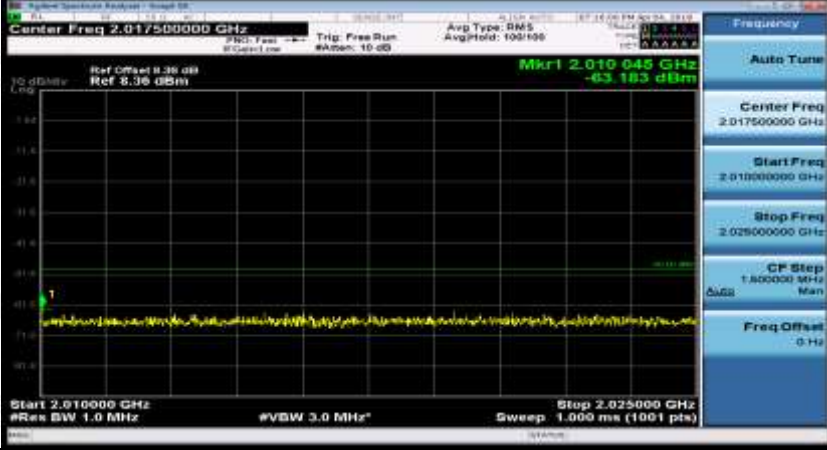
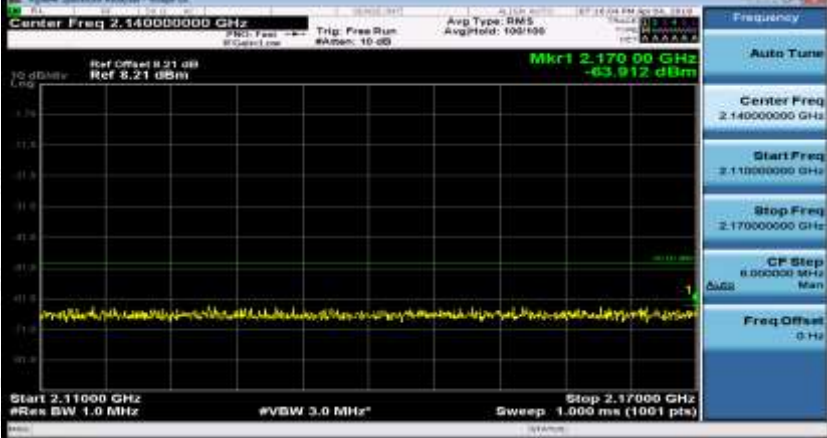
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General			
General			
General			

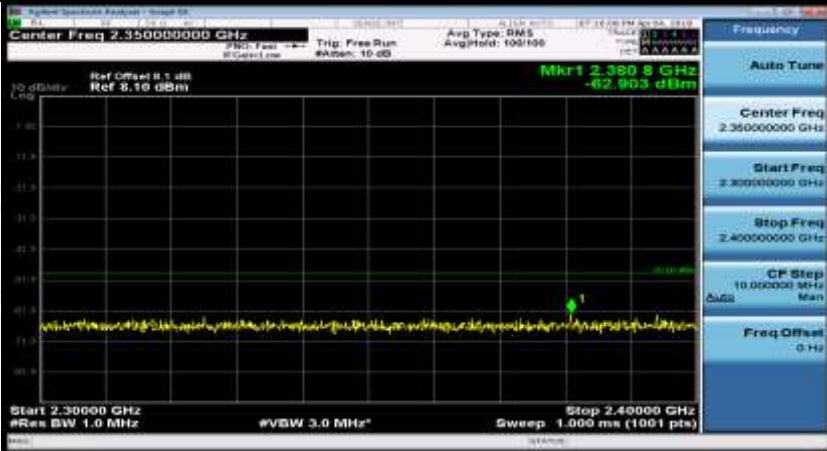
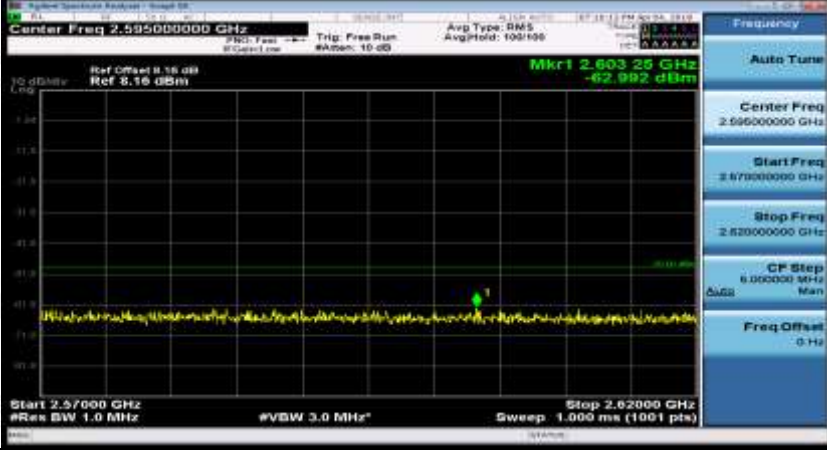
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Co-existence	
Co-existence	
Co-existence	



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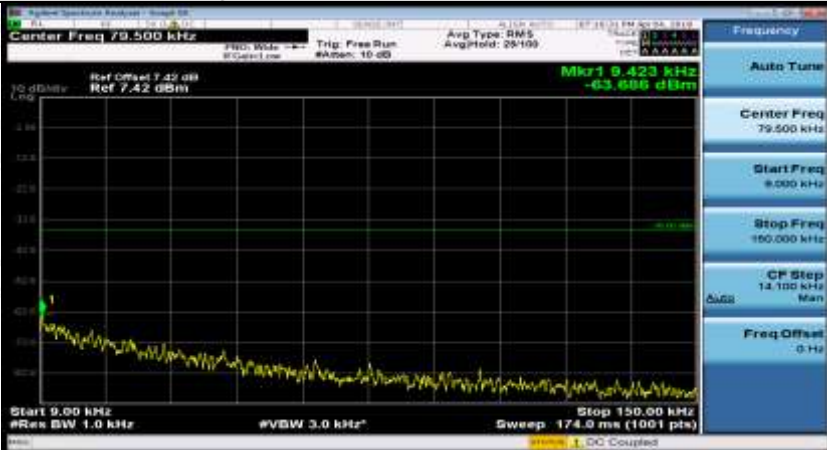
Co-existence	
Co-existence	
Co-existence	

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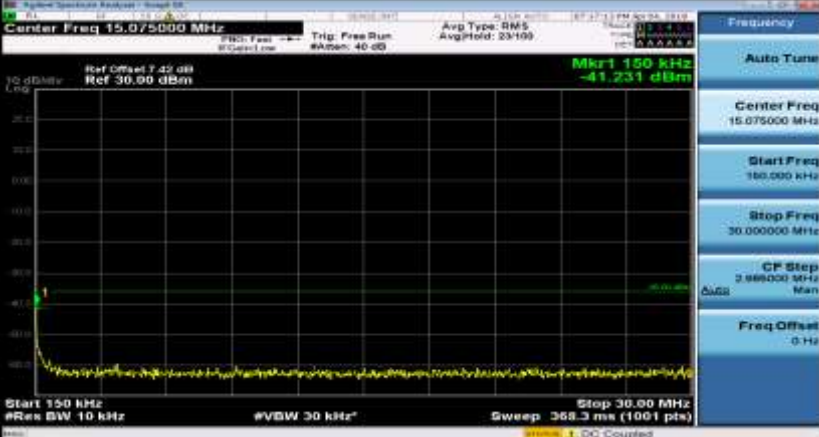
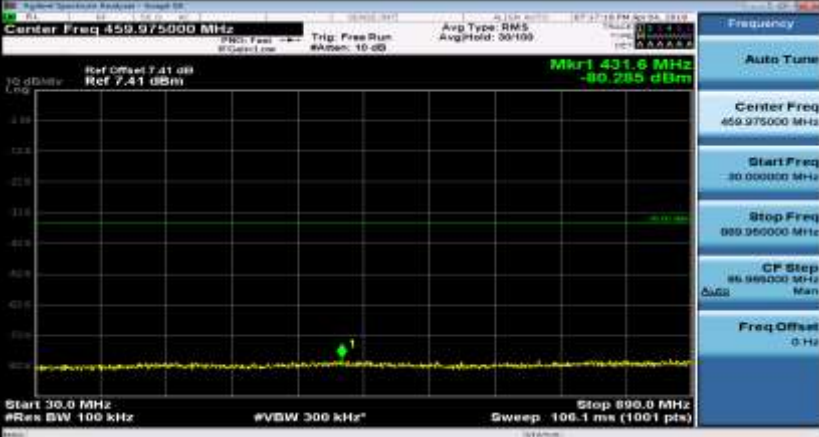

Co-existence	
Co-existence	
Co-existence	

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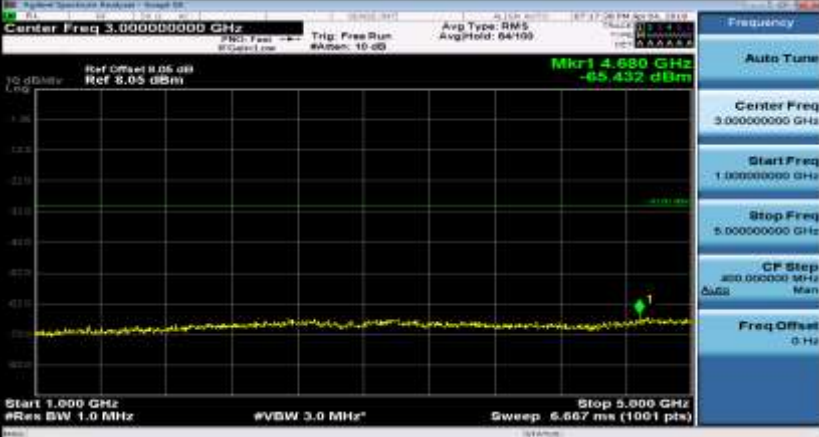
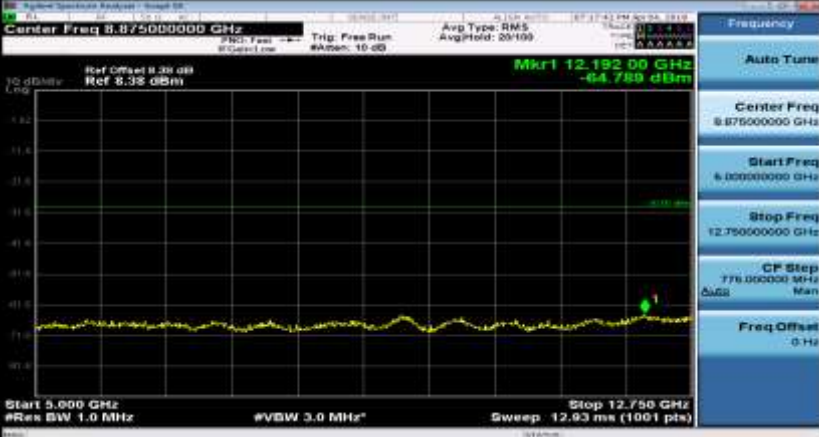
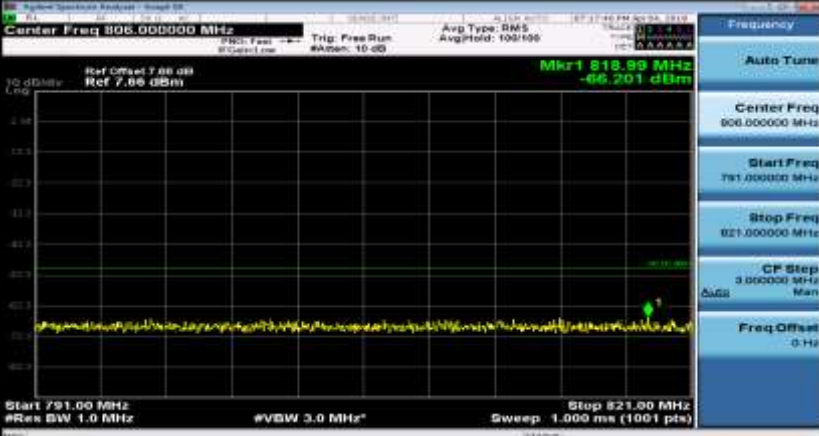
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (10 MHz)_QPSK_HCH_1RB#max	
General	

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General			
General			
General			

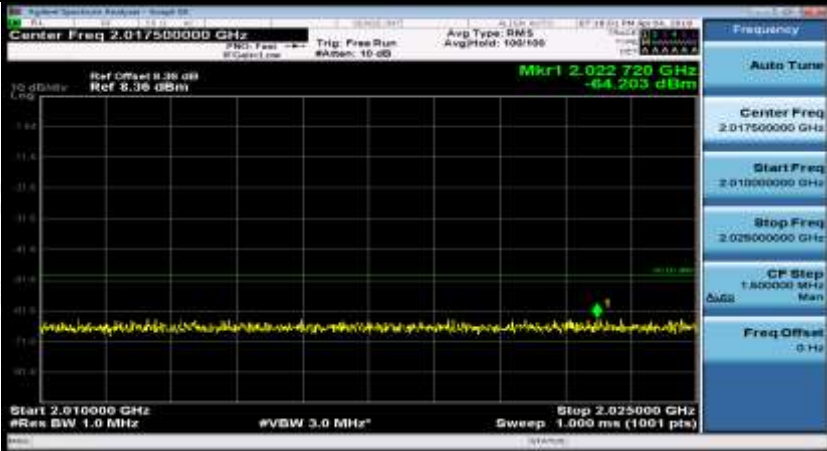
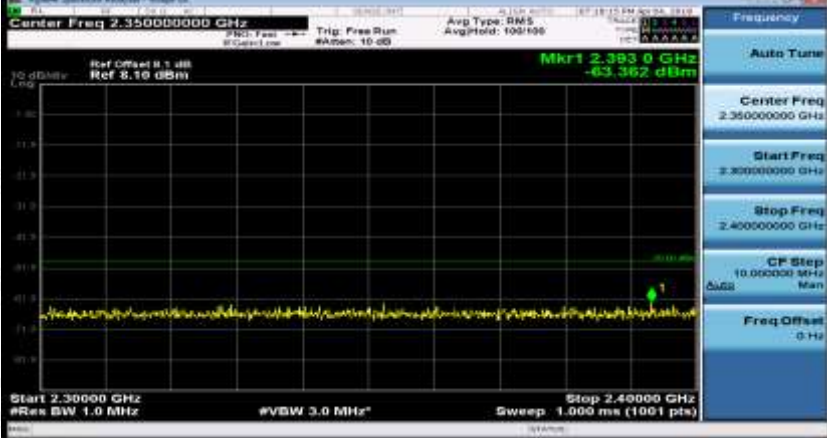
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General			
General			
Co-existence			

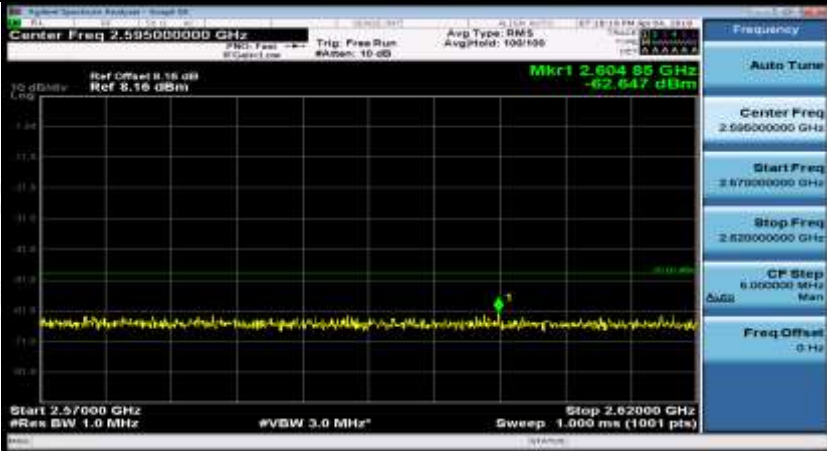
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Co-existence	
Co-existence	
Co-existence	

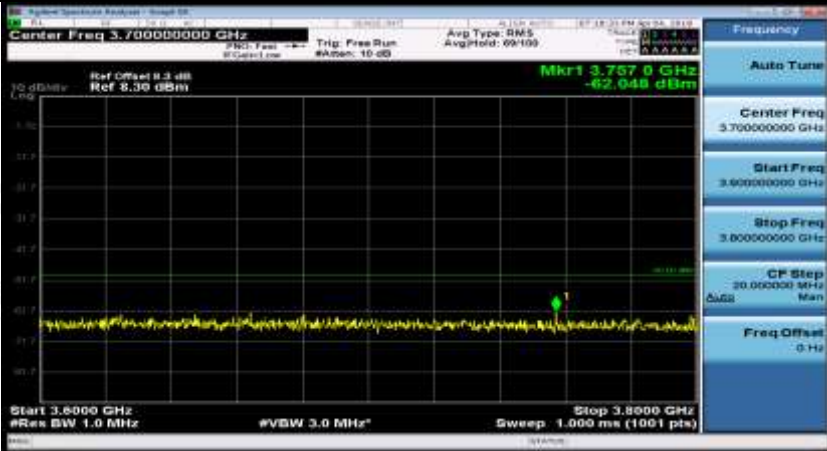
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Co-existence	
Co-existence	
Co-existence	

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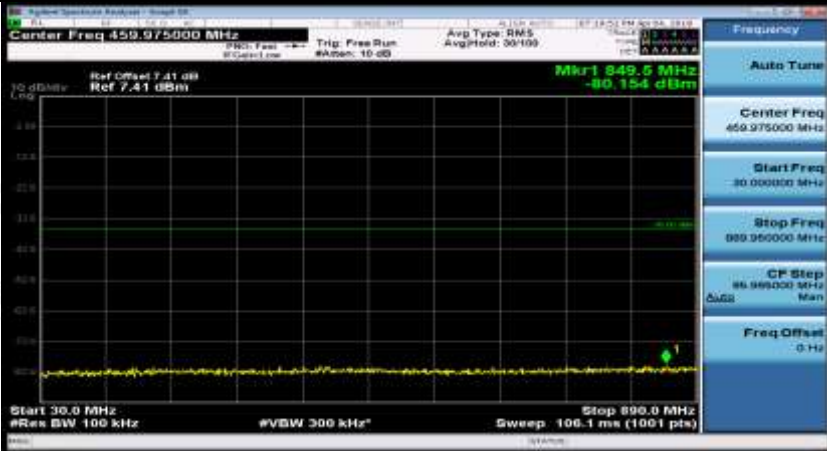
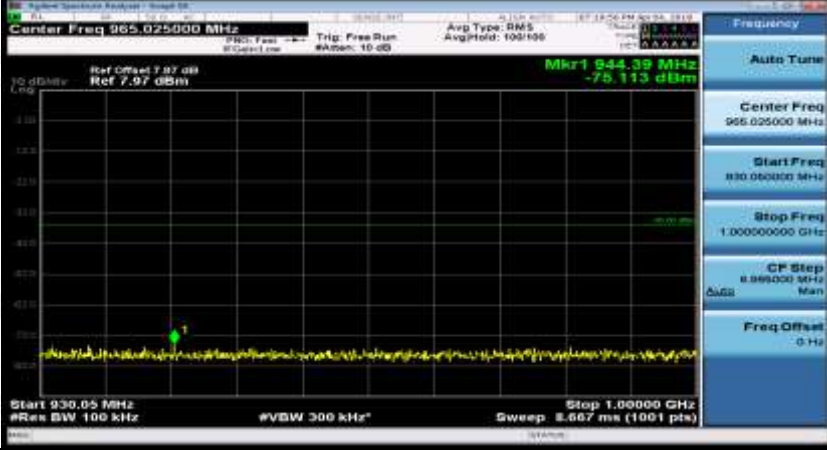
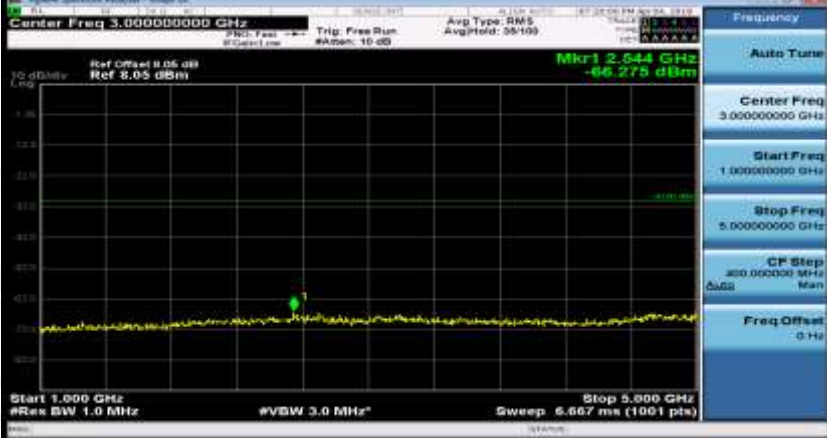
Co-existence	
Co-existence	
Co-existence	

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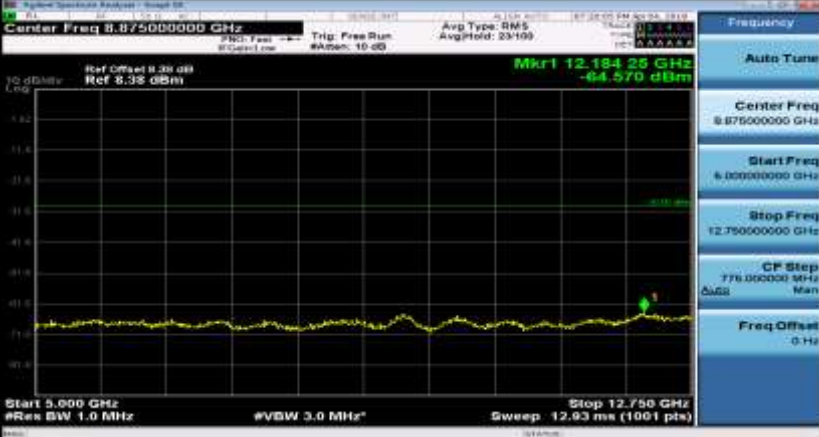
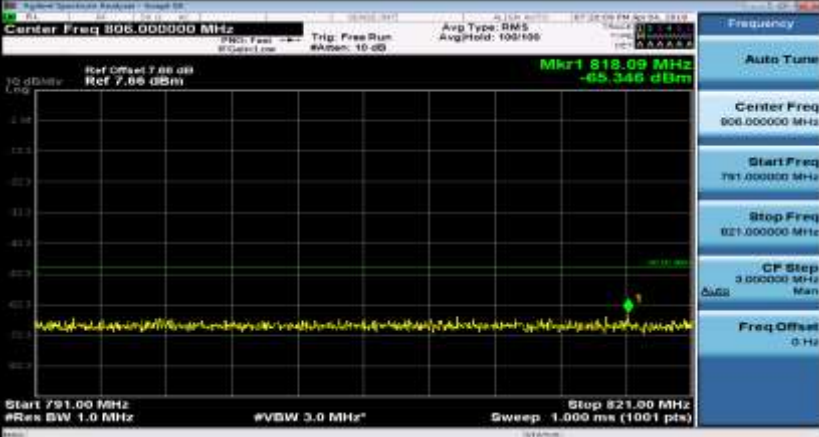
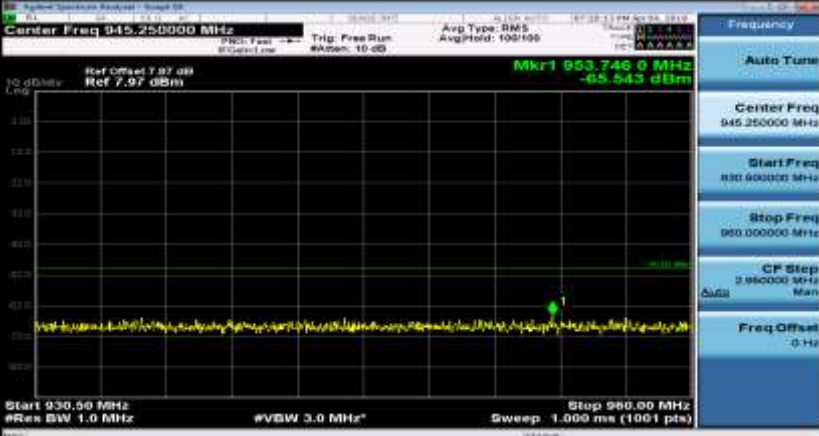
Co-existence	
Additional	NA

Channel Bandwidth=Highest (10 MHz)_QPSK_HCH_FullIRB#0	
General	
General	

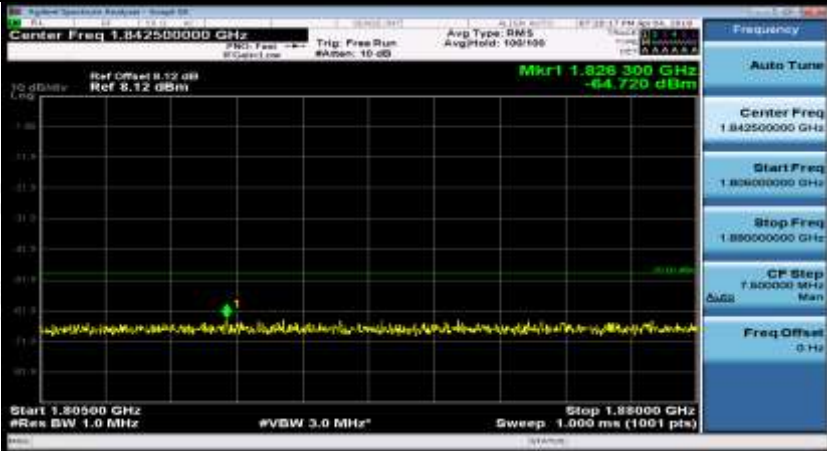
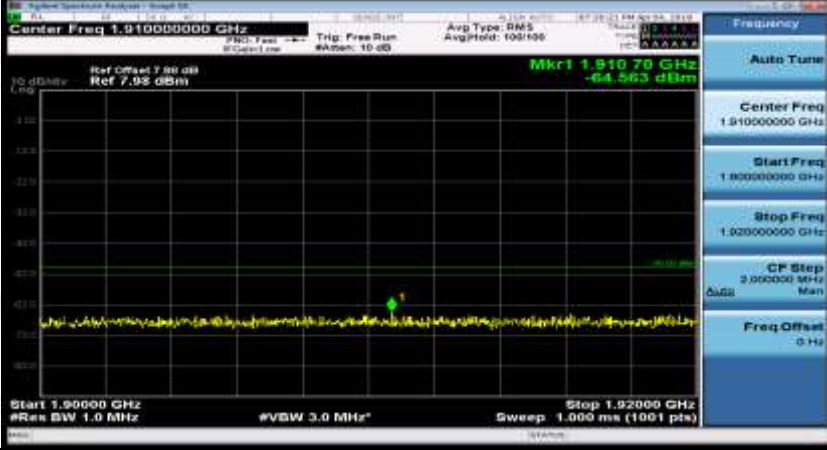
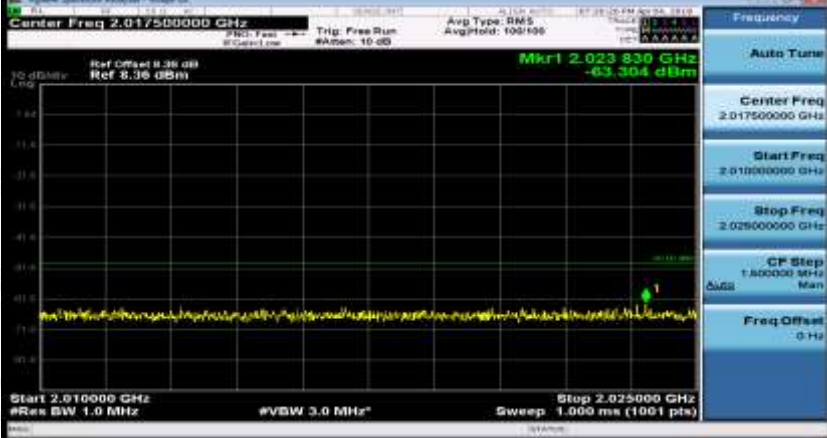
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General	
General	
General	

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General			
Co-existence			
Co-existence			

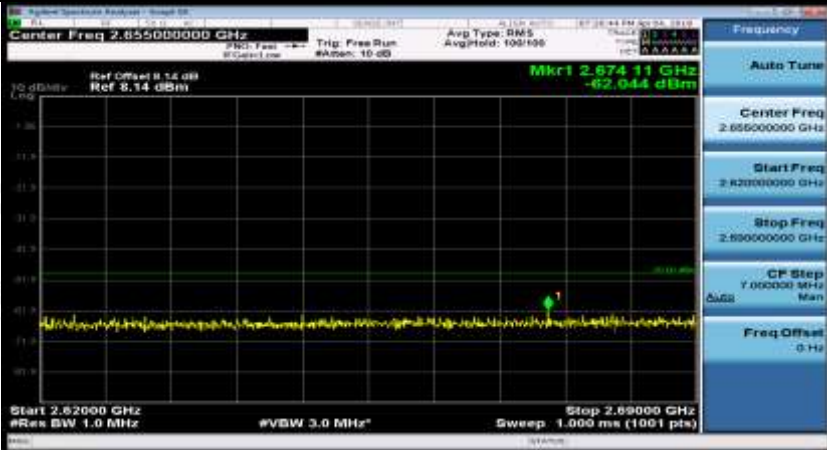
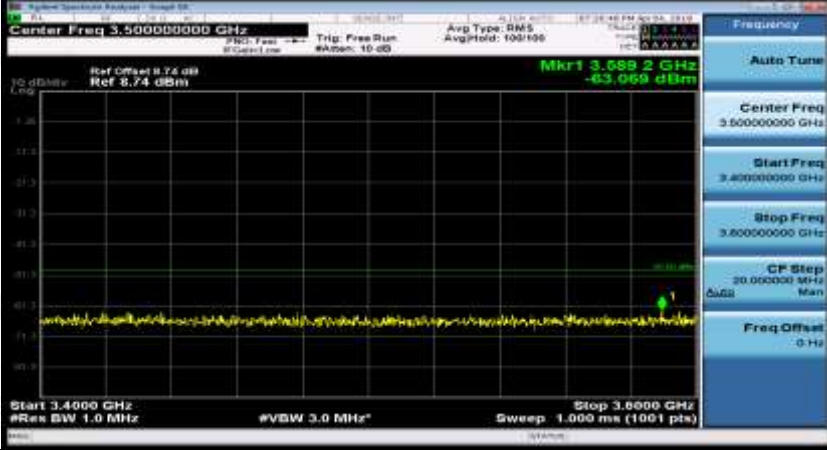

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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6. Receiver Spurious Emissions

Test Result

NTNV

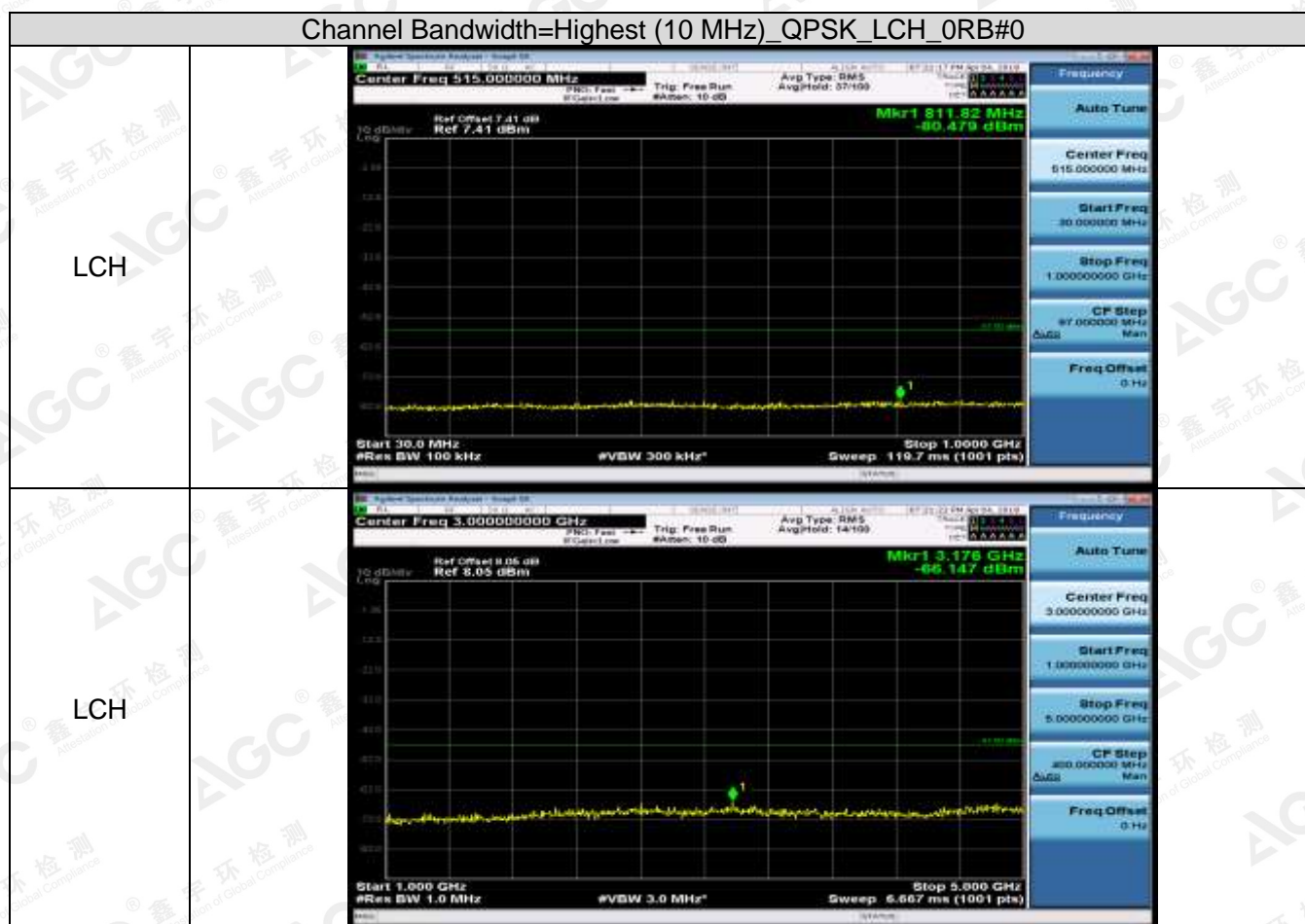
Channel Bandwidth=Highest

Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	10 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

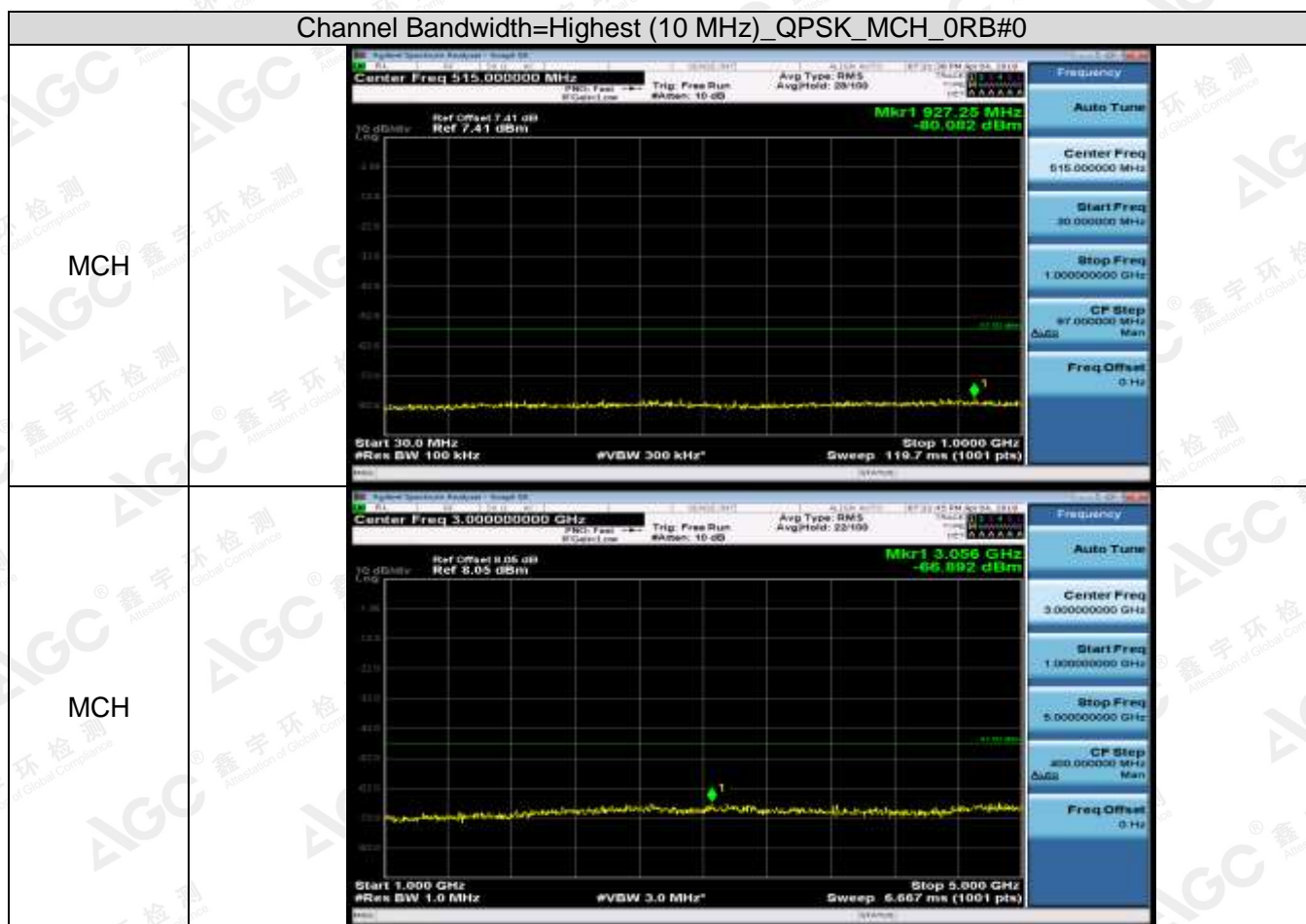
Test Graphs

NTNV

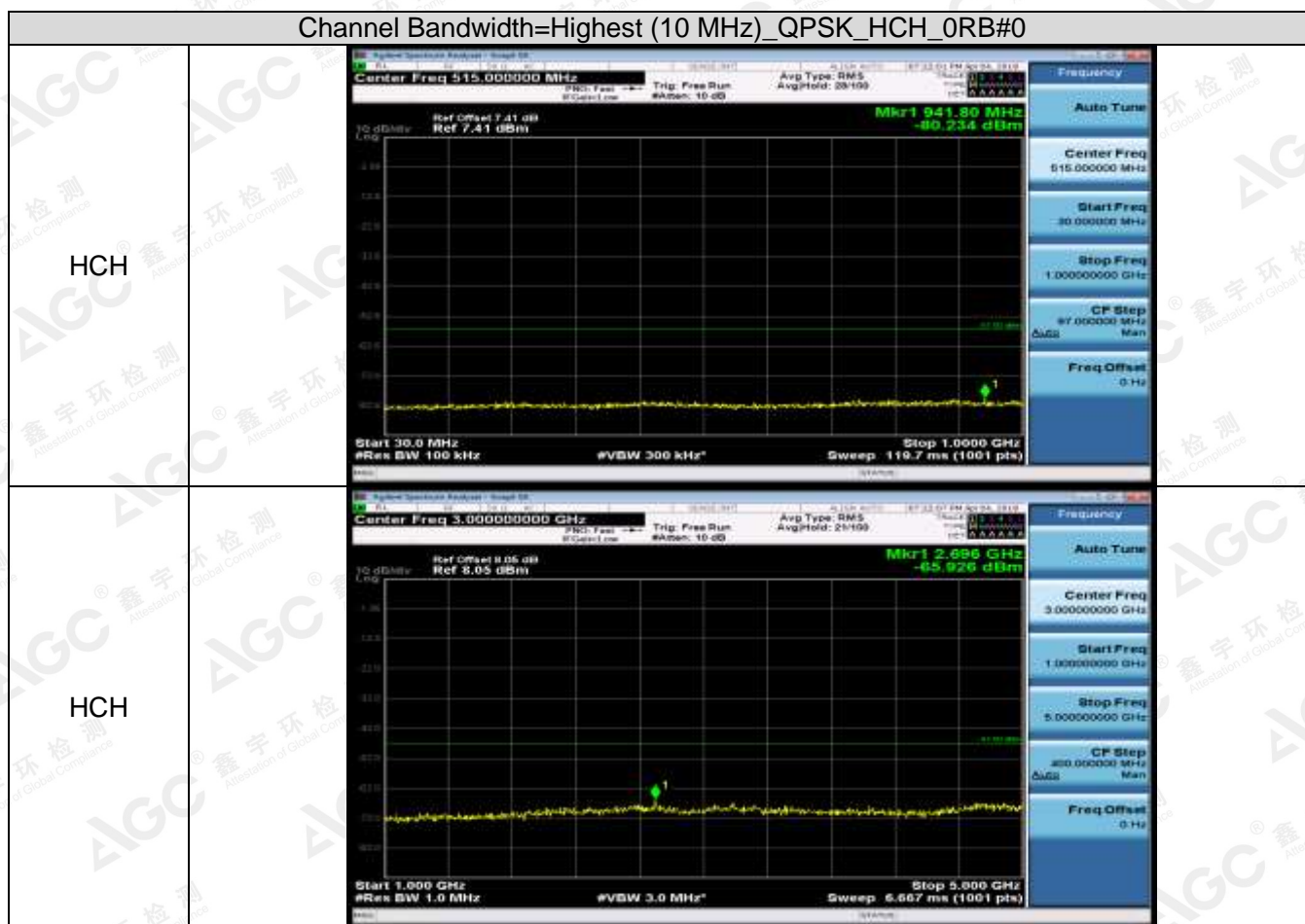
Channel Bandwidth=Highest



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7. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

Channel Bandwidth=Highest= (10 MHz)

Frequency	Modulation	RBW	Max .Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-74.34	-74.47	-74.59
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-69.25	-69.32	-69.42
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-71.57	-71.84	-71.67
Verdict	PASS					

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8. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 10MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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9. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 10MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

In-Band Blocking

	Downlink Configuration		Uplink Configuration		CASE2
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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Out-of Band Blocking

Test Environment	NC				
Test Frequencies	Low range for FInterferer below FDL_low High range for FInterferer above FDL_high				
Test Channel Bandwidths	Lowest, 5MHz, Highest 10MHz				
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

Narrow Band

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 10MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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10. Receiver Spurious Response

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 10MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
1.4MHz	QPSK	Full	QPSK	6	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
10MHz	QPSK	Full	QPSK	50	≥ 95 %
Verdict	Pass				

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11. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC			
Test Frequencies			Mid range			
Test Channel Bandwidths			Lowest, 1.4MHz, Highest 10MHz			
Test Parameters for Channel Bandwidths						
	Downlink Configuration		Uplink Configuration			
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
		FDD		FDD		
1.4MHz	QPSK	Full	QPSK	6	pass	≥ 95 %
5MHz	QPSK	Full	QPSK	15,20,25	pass	≥ 95 %
10MHz	QPSK	Full	QPSK	50	pass	≥ 95 %
Verdict	Pass					

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12. Receiver Reference Sensitivity Level

Test Results

NTNV

	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,1.4MHz,Highest 10MHz			
	Test Parameters for Channel Bandwidths						
		DownlinkConfigurat ion		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughpu t Limit
			FDD		FDD		
TNVN	1.4MHz	QPSK	Full	QPSK	6	PASS	≥ 95 %
	5MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	10MHz	QPSK	Full	QPSK	50	PASS	≥ 95 %
	Verdict	Pass					
TL,VL	1.4MHz	QPSK	Full	QPSK	6	PASS	≥ 95 %
	5MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	10MHz	QPSK	Full	QPSK	50	PASS	≥ 95 %
	Verdict	Pass					
TL,VH	1.4MHz	QPSK	Full	QPSK	6	PASS	≥ 95 %
	5MHz	QPSK	Full	QPSK	15,20,25	PASS	≥ 95 %
	10MHz	QPSK	Full	QPSK	50	PASS	≥ 95 %
	Verdict	Pass					

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Appendix E for Band 20

1. Transmitter Maximum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

HTHV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
HTHV	QPSK	5 MHz	Low range	1	0	23.28	Pass
					max	23.22	Pass
				Partial	0	23.42	Pass
					max	23.31	Pass
			Mid range	1	0	23.21	Pass
					max	23.22	Pass
				Partial	0	23.25	Pass
					max	23.26	Pass
			High range	1	0	23.28	Pass
					max	23.17	Pass
				Partial	0	23.39	Pass
					max	23.30	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
HTHV	QPSK	20 MHz	Low range	1	0	23.16	Pass
					max	23.06	Pass
				Partial	0	23.13	Pass
					max	23.00	Pass
			Mid range	1	0	23.12	Pass
					max	23.18	Pass
				Partial	0	23.13	Pass
					max	23.08	Pass
			High range	1	0	23.07	Pass
					max	23.11	Pass
				Partial	0	23.02	Pass
					max	23.15	Pass

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2. Transmitter Minimum Output Power

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

LTLV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
LTLV	QPSK	5 MHz	Low range	Full	0	-49.51	Pass
			Mid range	Full	0	-50.50	Pass
			High range	Full	0	-50.43	Pass

Channel Bandwidth=Highest (20 MHz)

Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Average Power (dBm)	Verdict
				RB Size	RB Offset		
LTLV	QPSK	20MHz	Low range	Full	0	-50.54	Pass
			Mid range	Full	0	-51.27	Pass
			High range	Full	0	-50.69	Pass

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3. Transmitter Spectrum Emission Mask

Test Result

NTN

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass

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					max	PUMAX	Pass
				Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
			Mid range	Full	0	PUMAX	Pass
				Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

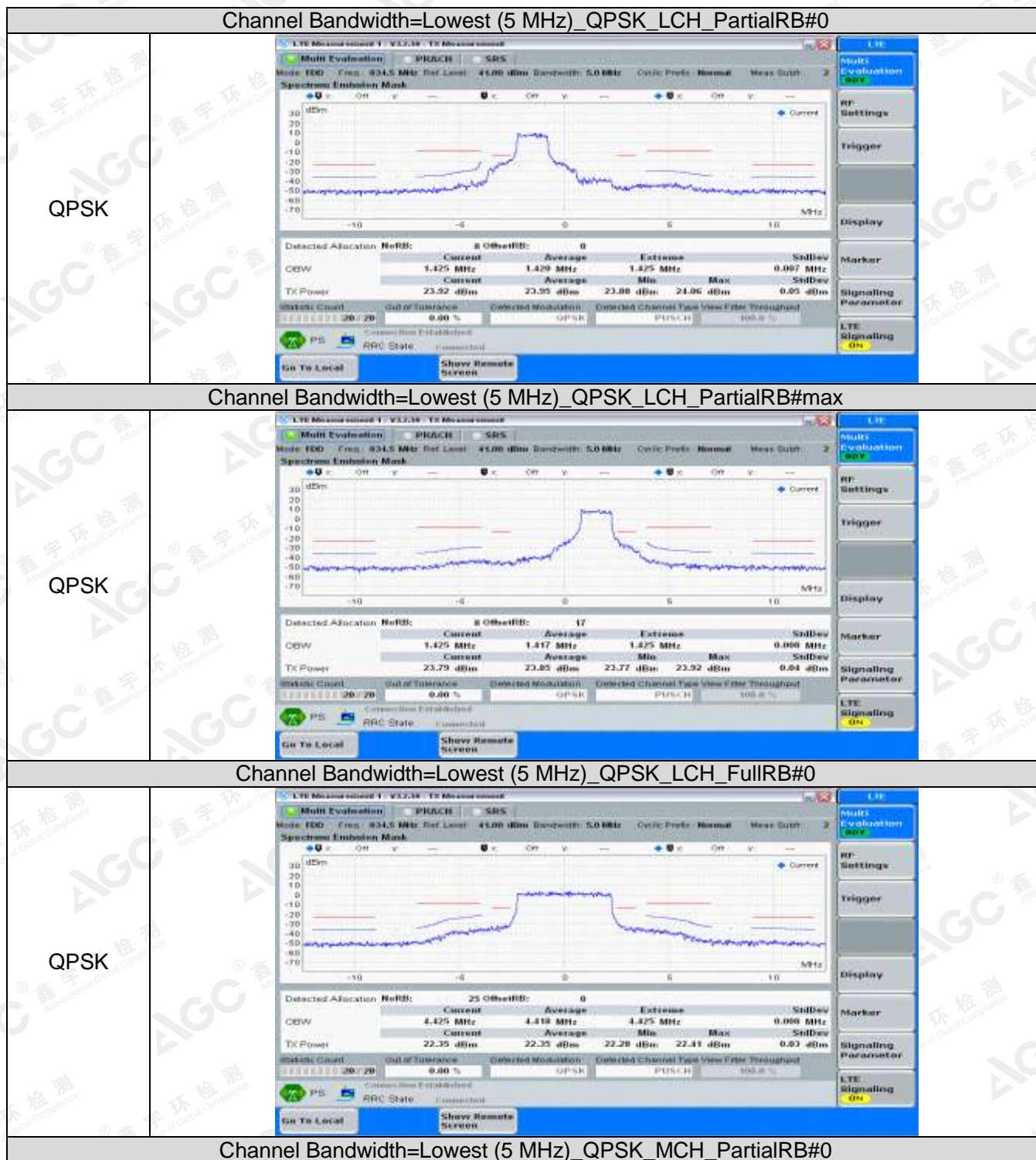
Channel Bandwidth=Highest (20MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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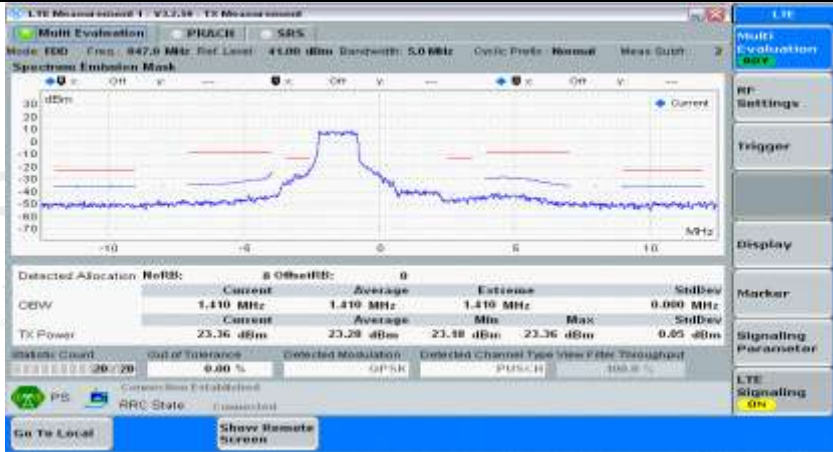
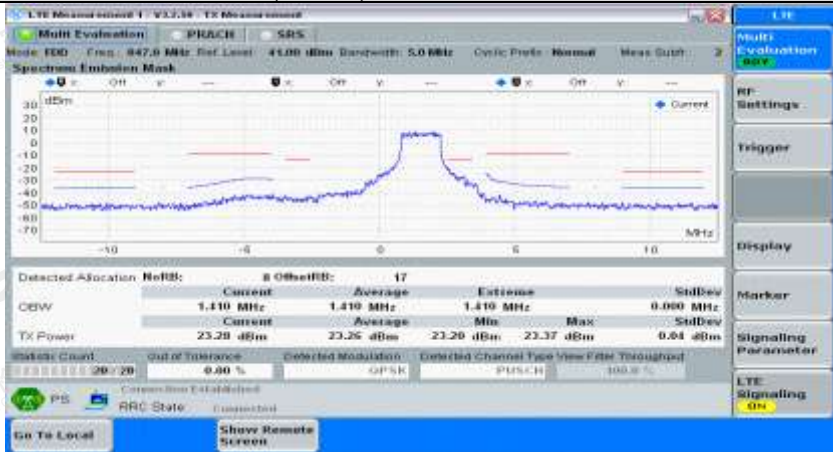
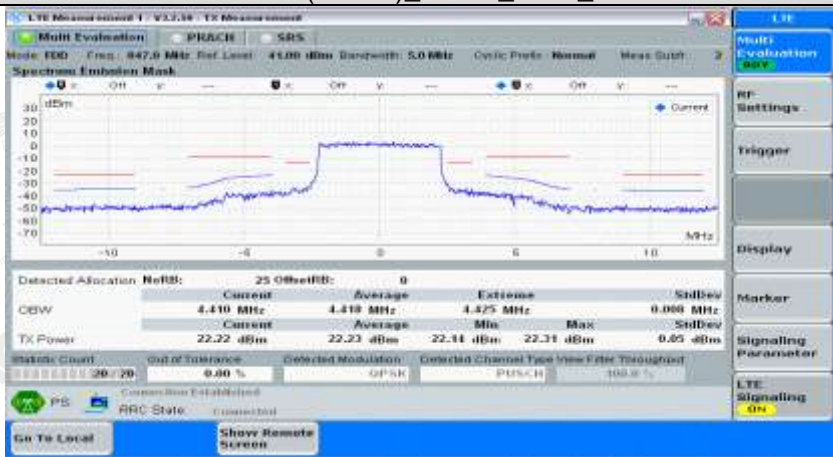
Test Graphs

NTNV

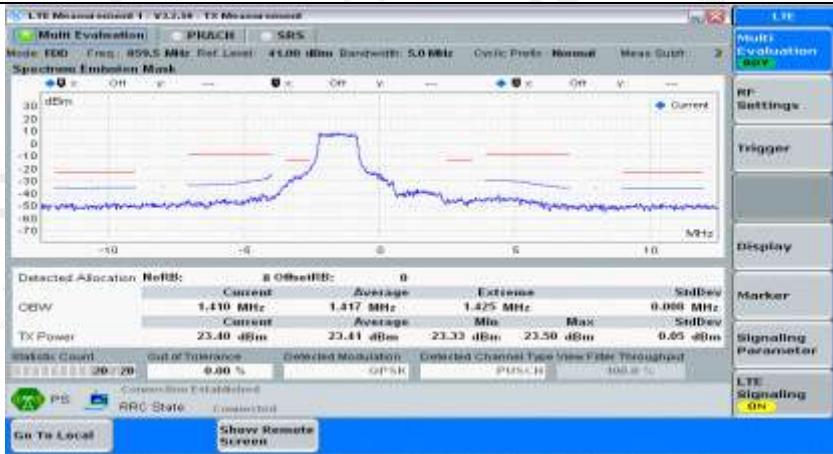
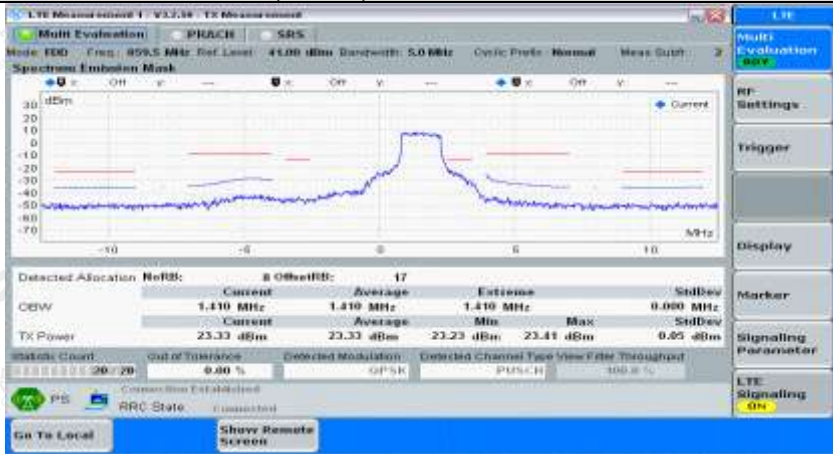
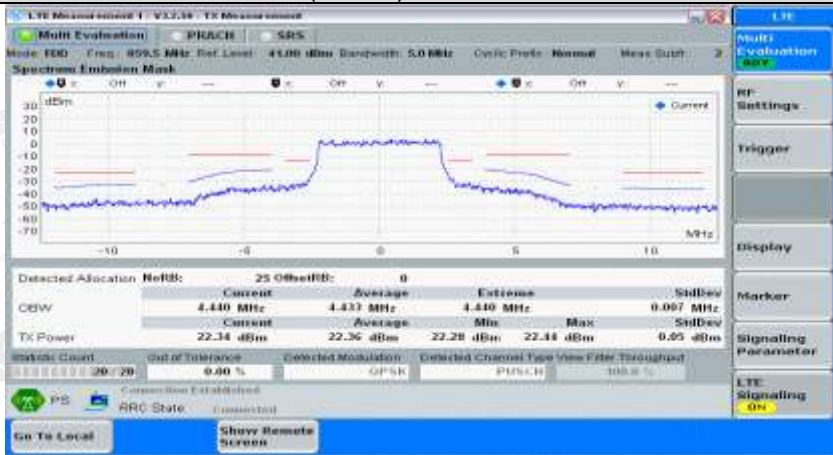
Channel Bandwidth=Lowest (5 MHz)



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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0	

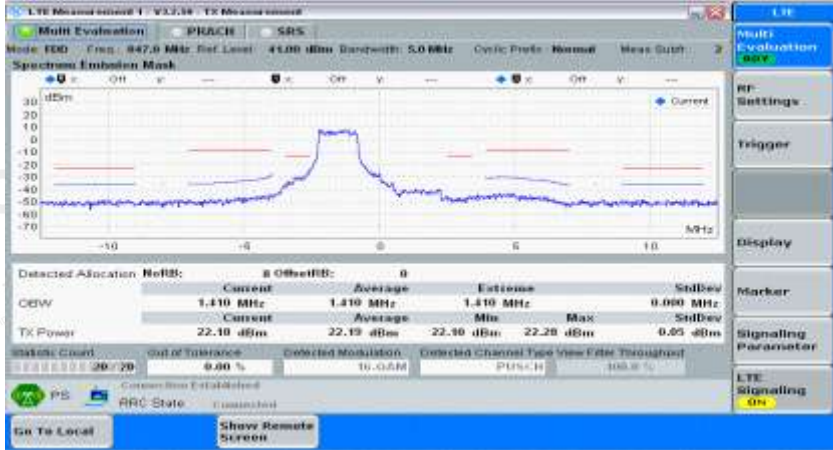
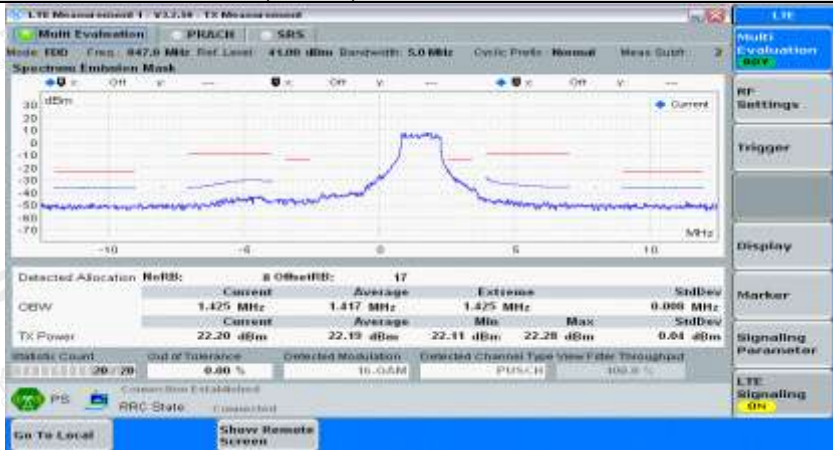
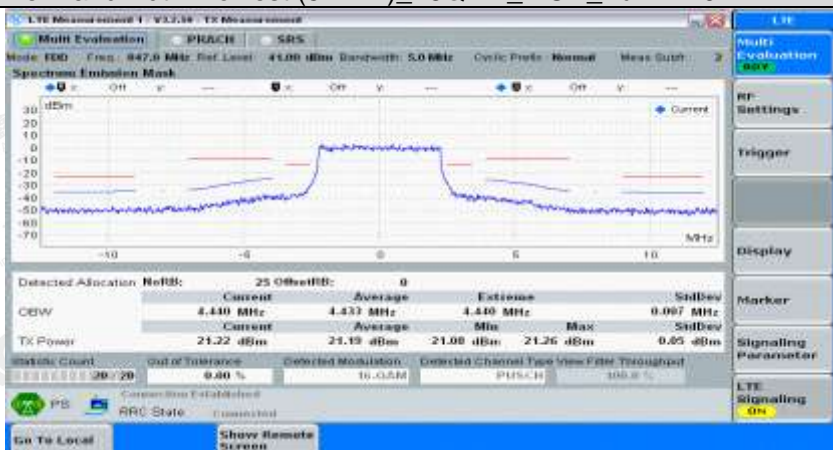
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QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0	

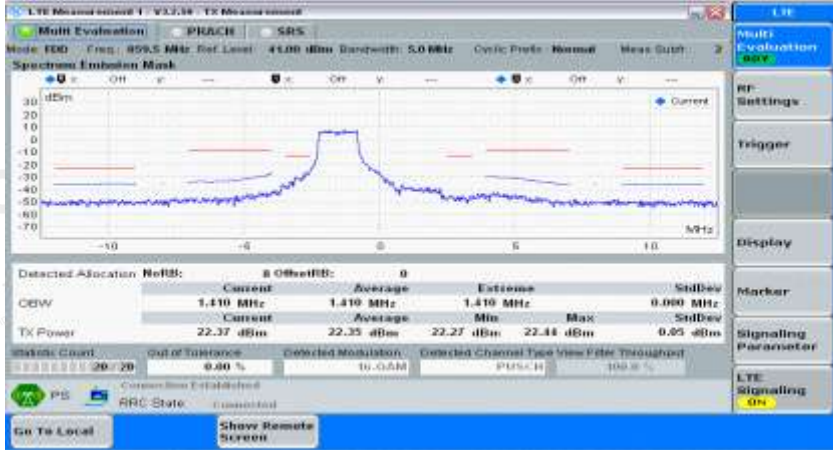
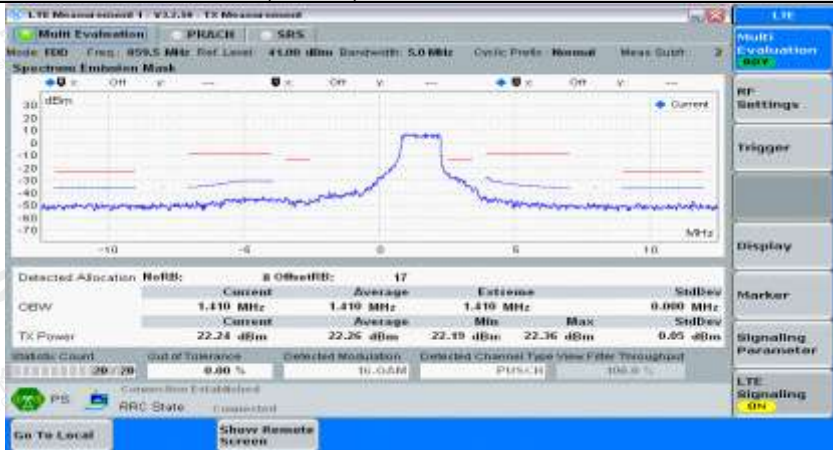
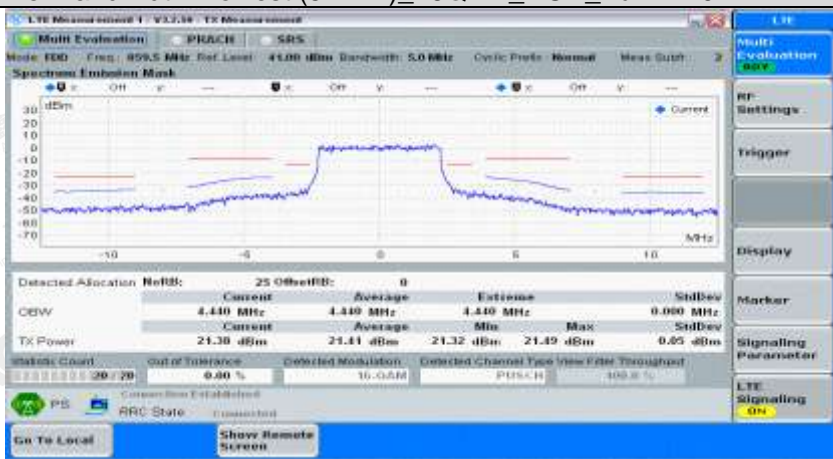
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16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullIRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0	

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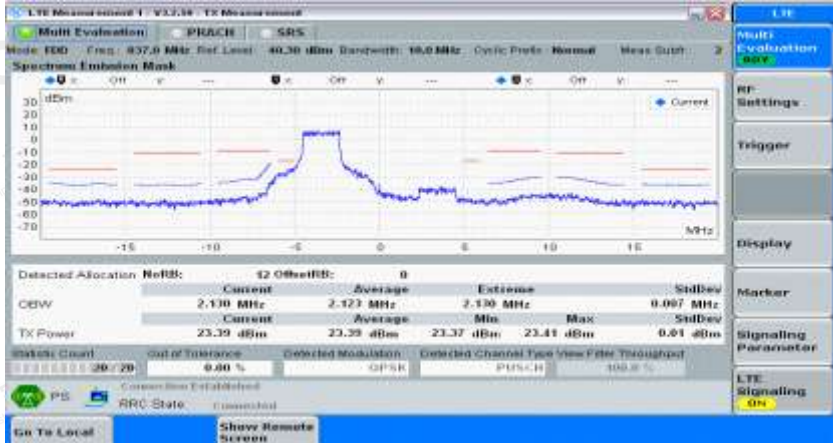
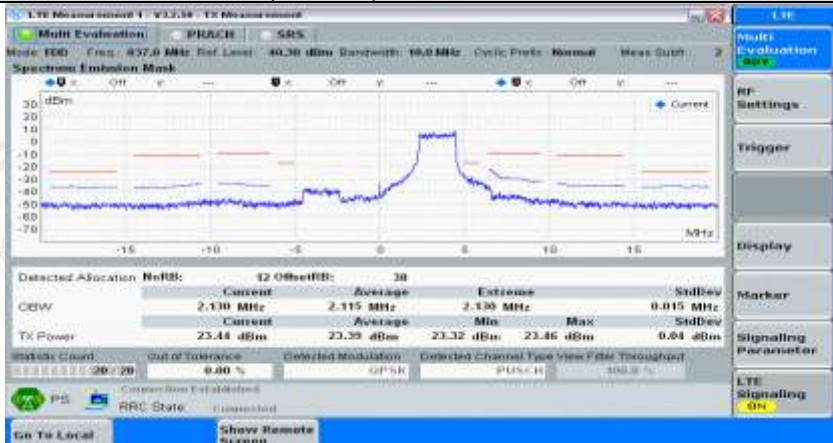
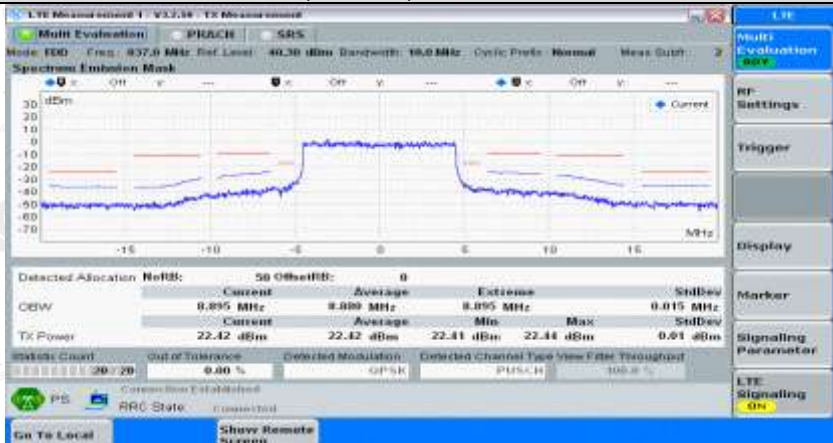
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0	

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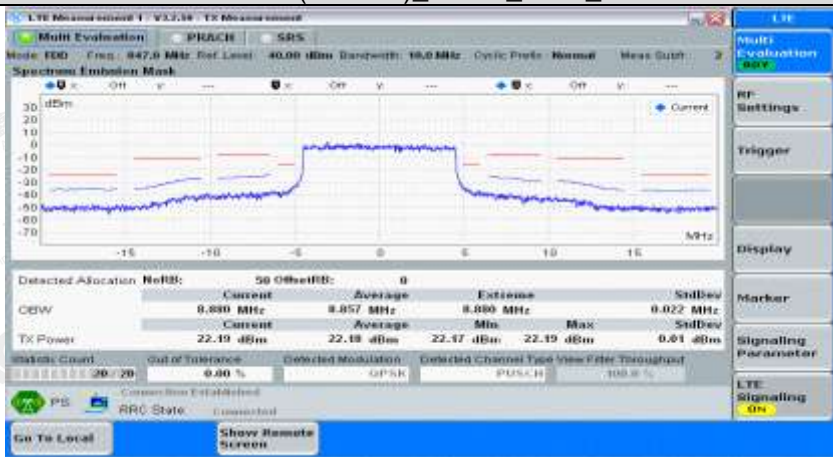
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_FullIRB#0	
16QAM	

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Channel Bandwidth= (10 MHz)

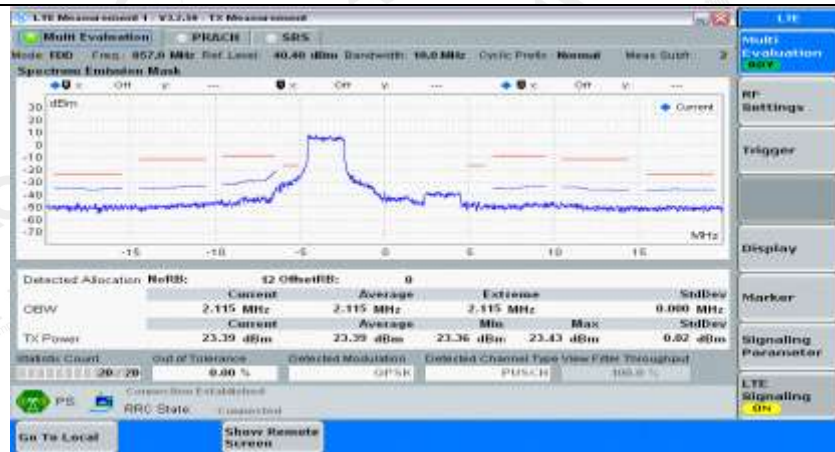
QPSK	<p>Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0</p> 
QPSK	<p>Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max</p> 
QPSK	<p>Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullRB#0</p> 
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0	

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QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullRB#0	
QPSK	
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0	

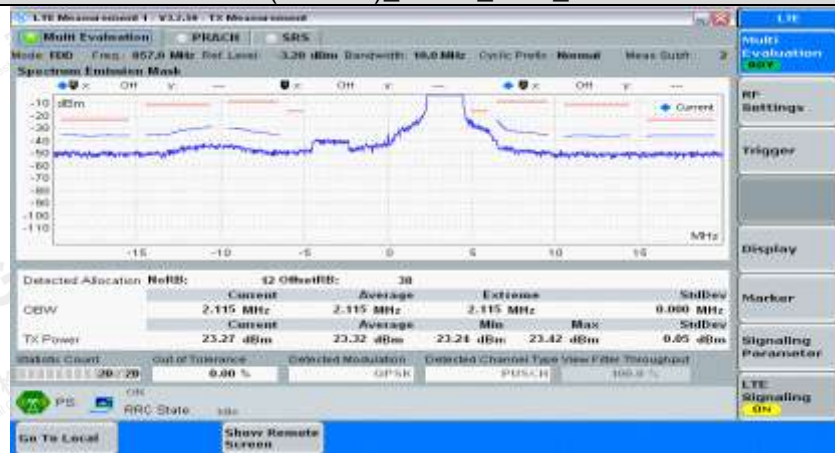
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QPSK



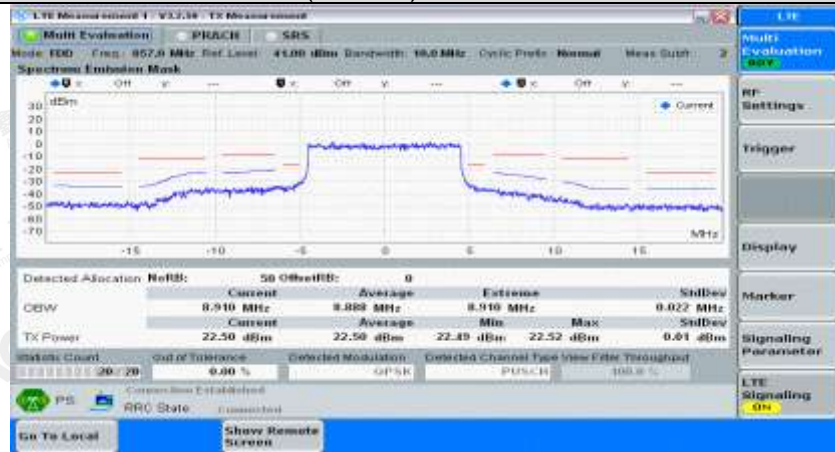
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullRB#0

QPSK

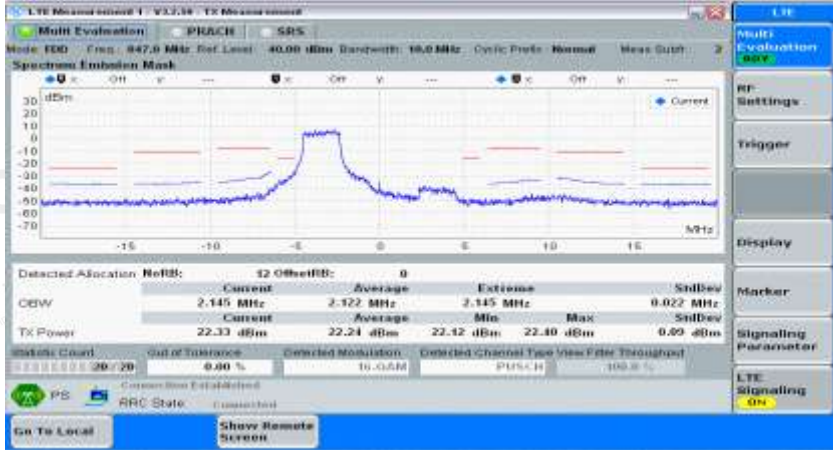
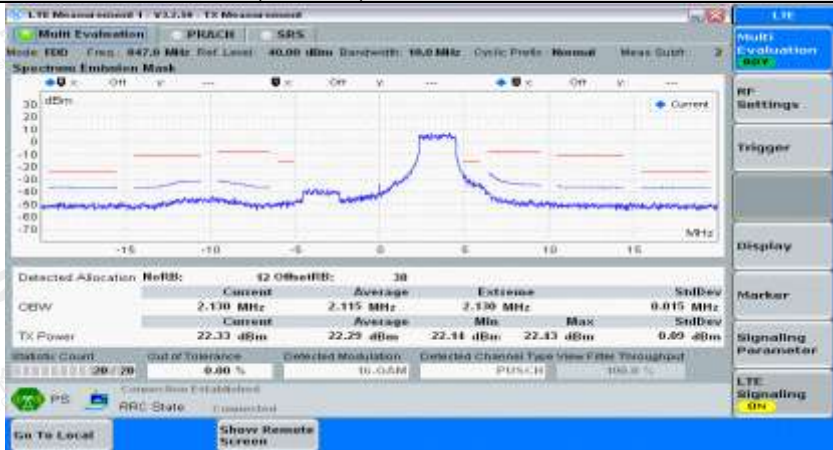
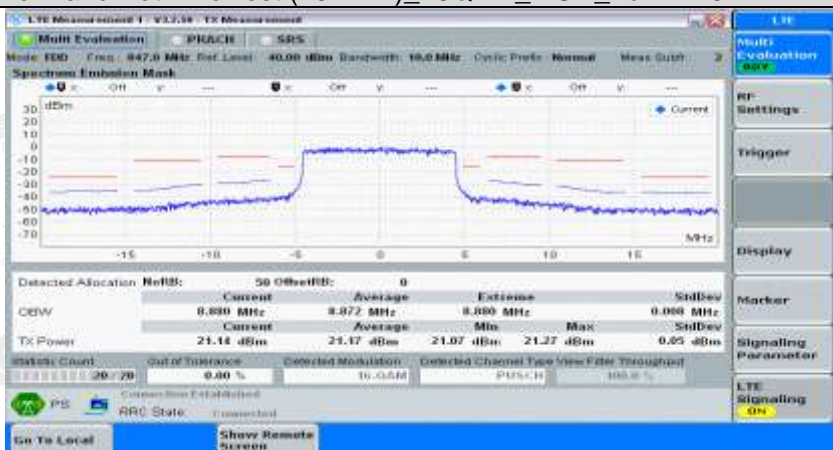


Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0

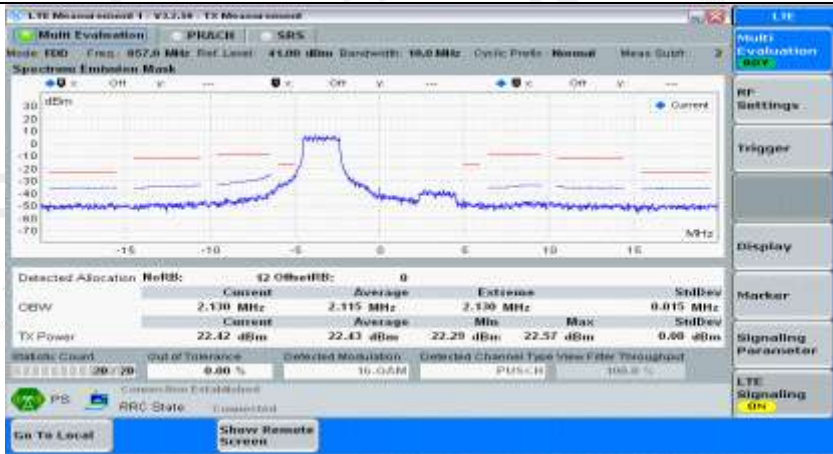
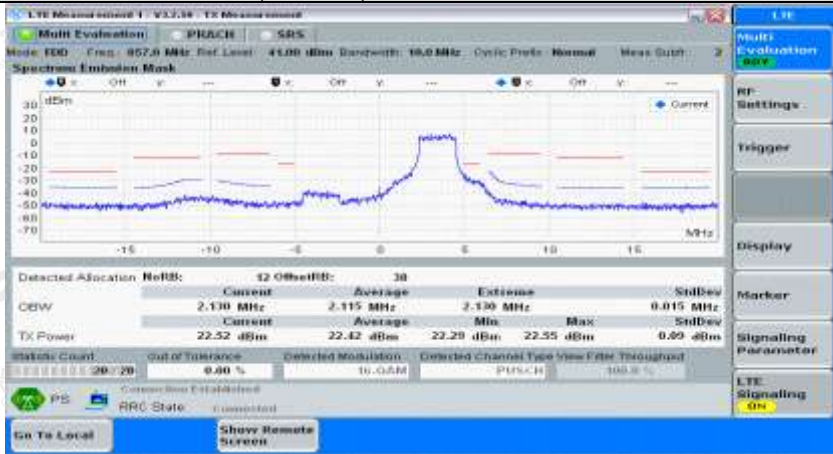
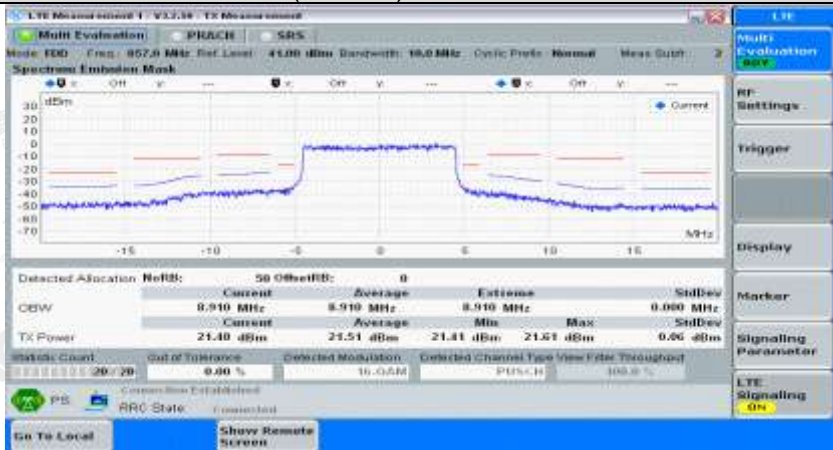
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16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0	

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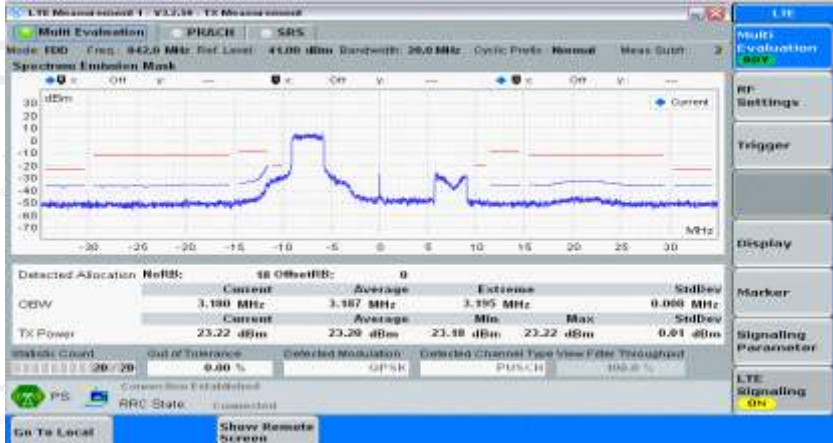
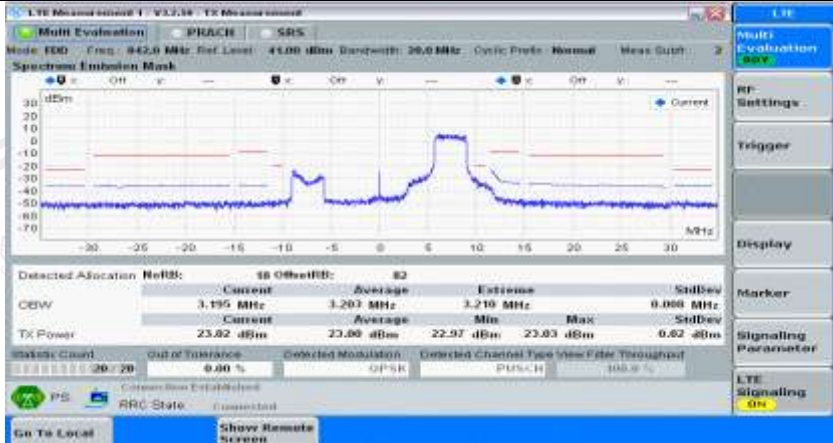
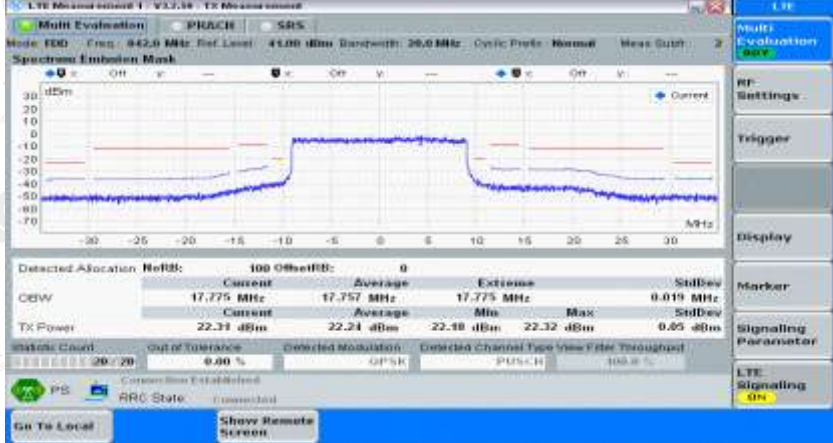
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0	

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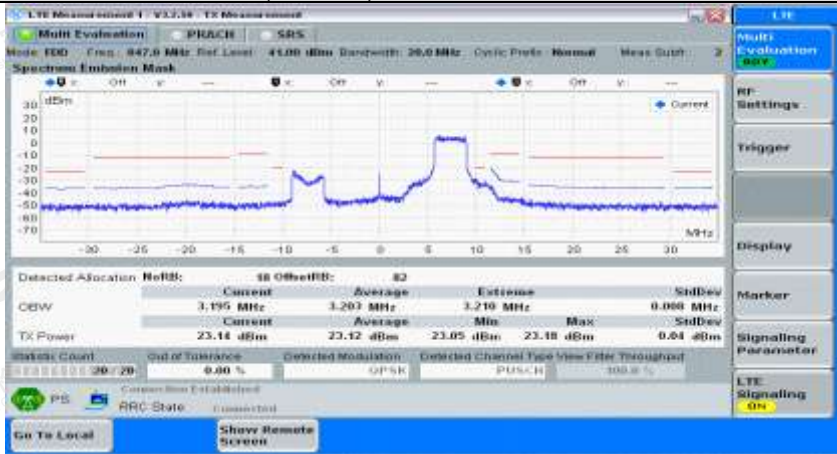
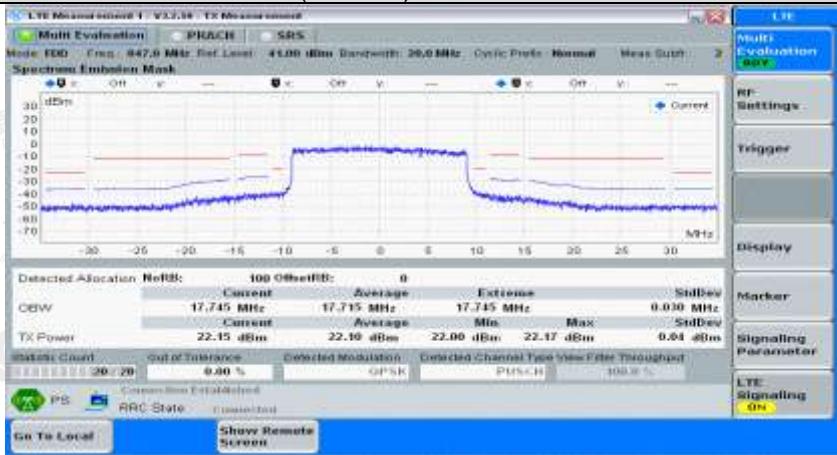
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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Channel Bandwidth=Highest (20 MHz)

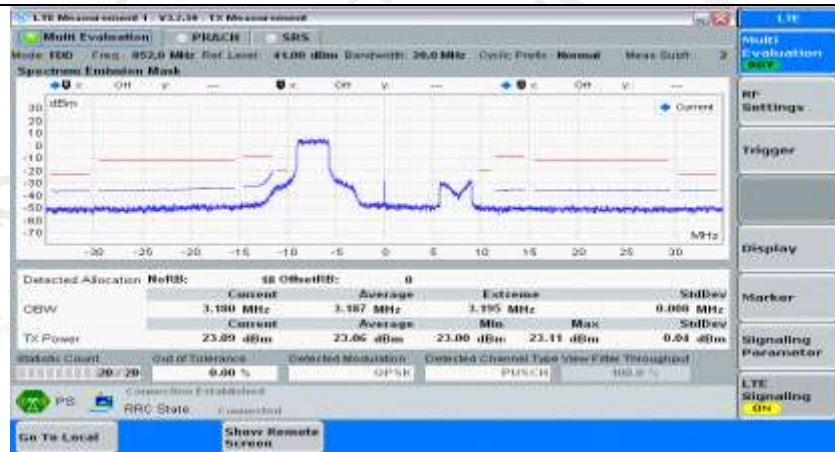
QPSK	<p>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#0</p> 
QPSK	<p>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_PartialRB#max</p> 
QPSK	<p>Channel Bandwidth=Lowest (20 MHz)_QPSK_LCH_FullRB#0</p> 
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#0	

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QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullIRB#0	
QPSK	
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0	

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QPSK



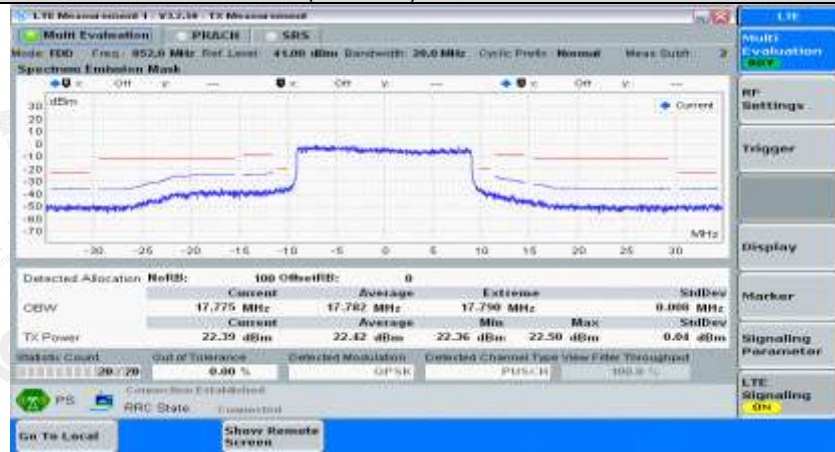
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max

QPSK



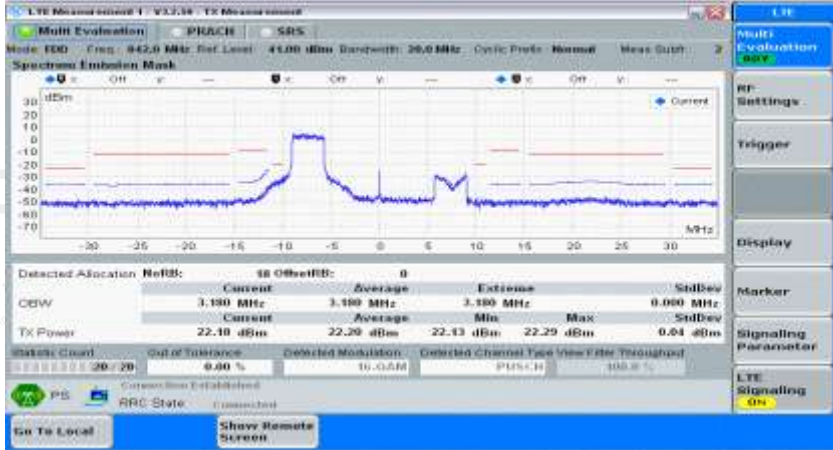
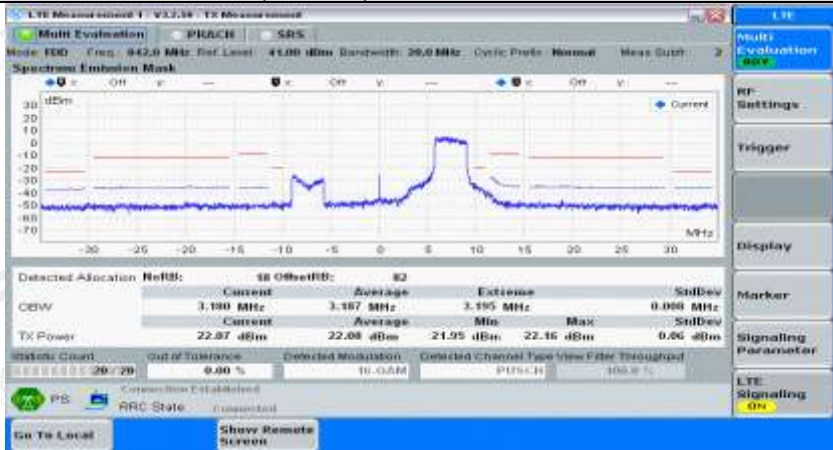
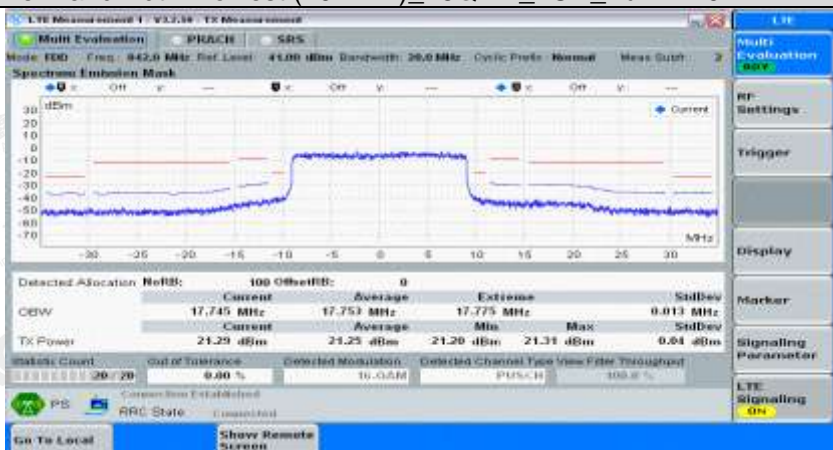
Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullRB#0

QPSK

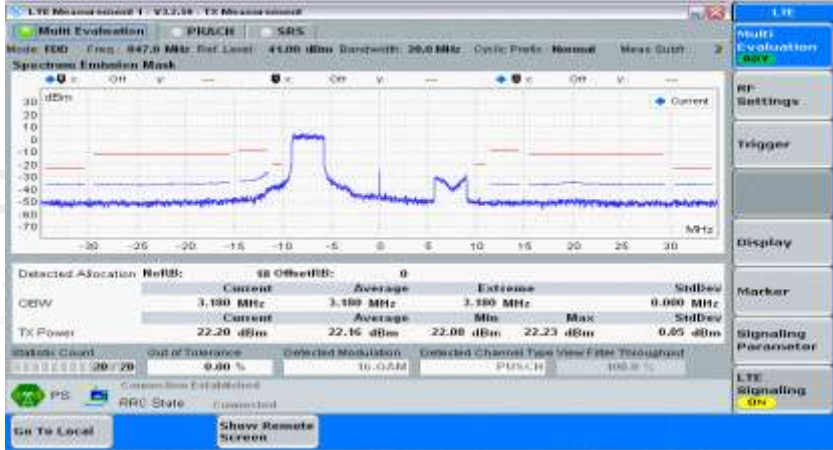
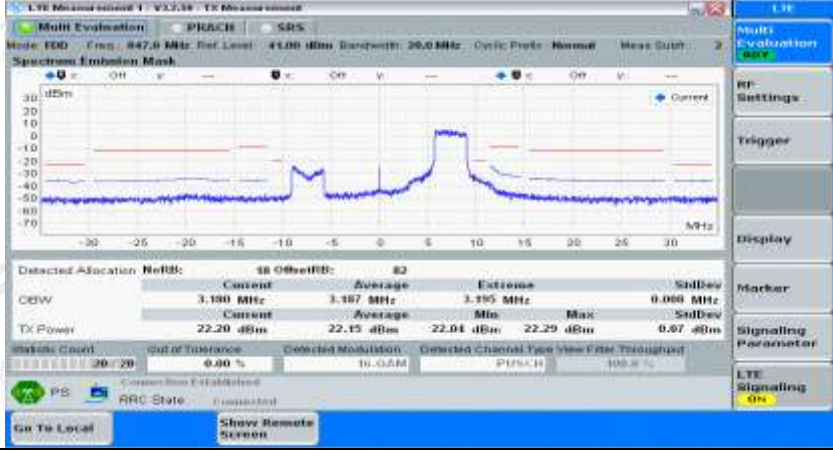
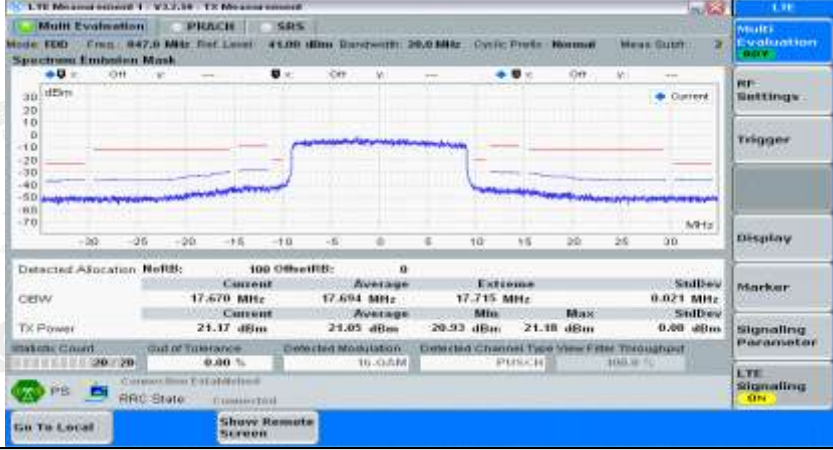


Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0

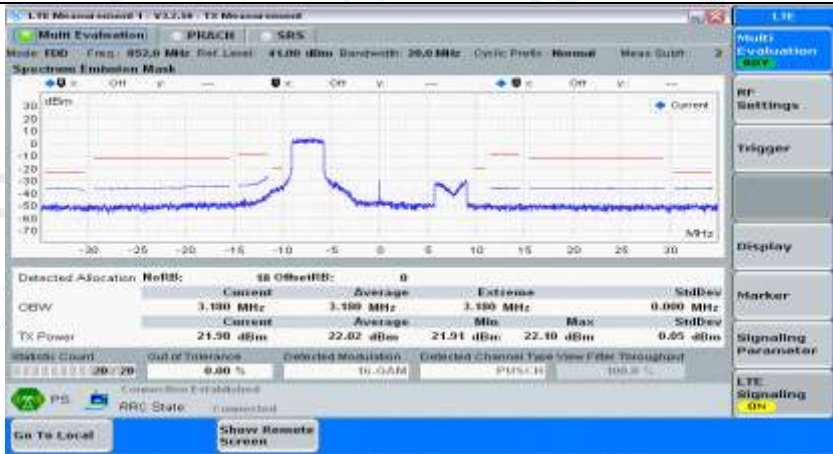
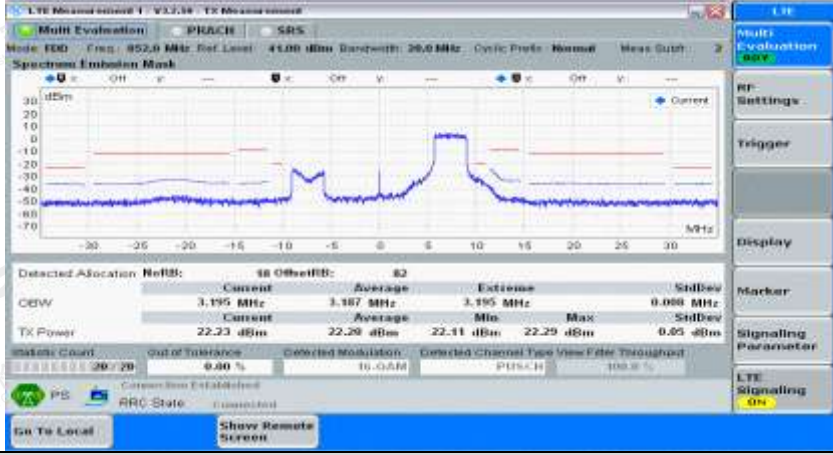
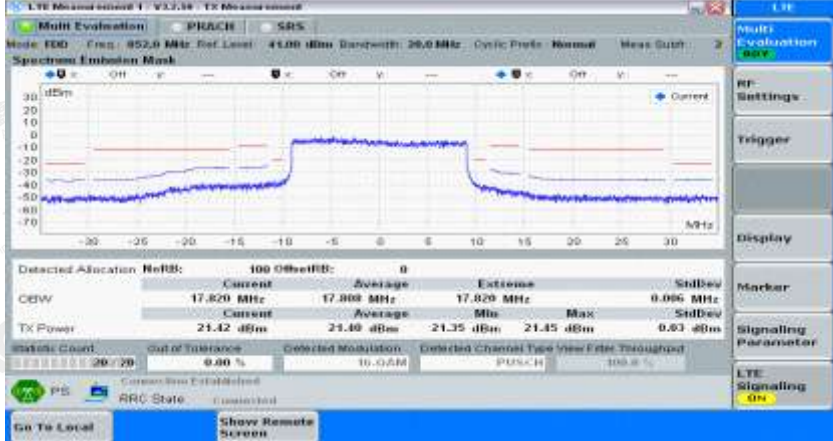
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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0	

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16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max	
16QAM	
Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0	
16QAM	

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4. Transmitter Adjacent Channel Leakage Power Ratio(ACLR)

Test Result

Note: All the modes had been tested, but only the worst data recorded in the report.

HTLV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)								
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict	
				RB Size	RB Offset			
HTLV	QPSK	5 MHz	Low range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			Mid range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			High range	Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
			16QAM	Low range	Partial	0	PUMAX	Pass
						max	PUMAX	Pass
					Full	0	PUMAX	Pass
	Mid range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	
	High range			Partial	0	PUMAX	Pass	
					max	PUMAX	Pass	
				Full	0	PUMAX	Pass	

Channel Bandwidth= (10 MHz)

Channel Bandwidth= (10 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
HTLV	QPSK	10 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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	16QAM	Low range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		Mid range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass
		High range	Partial	0	PUMAX	Pass
				max	PUMAX	Pass
			Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

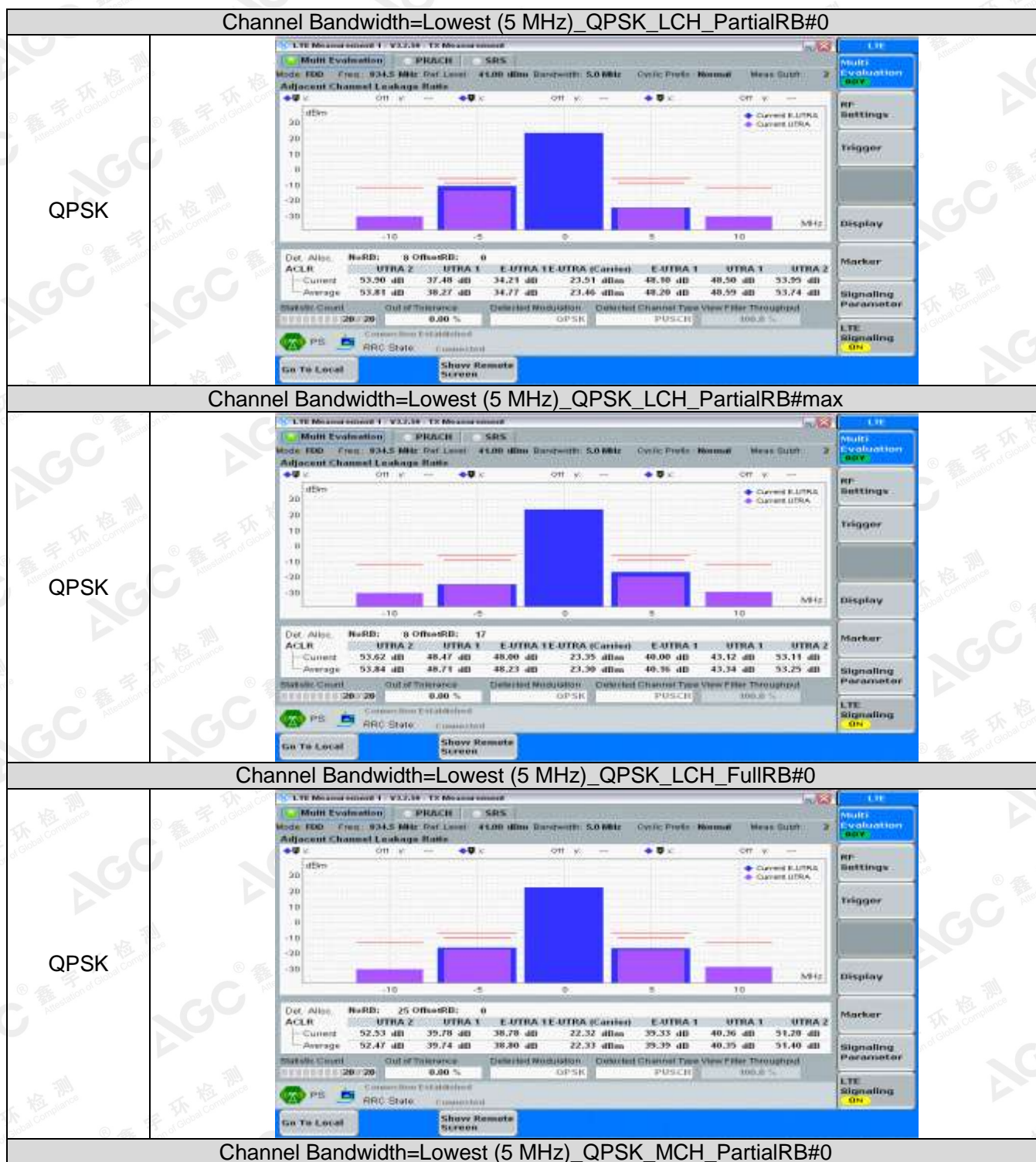
Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
HTLV	QPSK	20 MHz	Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
	16QAM		Low range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	Partial	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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Test Graphs

HTLV




Channel Bandwidth=Lowest (5 MHz)




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QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#0</p>

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QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_LCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_MCH_FullIRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (5 MHz)_16QAM_HCH_PartialRB#0</p>

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Channel Bandwidth= (10 MHz)

Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#0

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_PartialRB#max

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_LCH_FullIRB#0

QPSK



Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#0

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QPSK	 <table><tr><th>Det. Alphe</th><th>NRSD</th><th>12 Offset</th><th>NRSD</th><th>0</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>52.32 dB</td><td>42.15 dB</td><td>41.31 dB</td><td>23.17 dB</td><td>46.75 dB</td><td>51.27 dB</td><td>50.34 dB</td><td></td><td></td><td></td><td></td></tr><tr><td>Average</td><td>52.42 dB</td><td>42.43 dB</td><td>41.52 dB</td><td>23.19 dB</td><td>46.99 dB</td><td>51.34 dB</td><td>50.74 dB</td><td></td><td></td><td></td><td></td></tr></table>	Det. Alphe	NRSD	12 Offset	NRSD	0	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	Current	52.32 dB	42.15 dB	41.31 dB	23.17 dB	46.75 dB	51.27 dB	50.34 dB					Average	52.42 dB	42.43 dB	41.52 dB	23.19 dB	46.99 dB	51.34 dB	50.74 dB				
Det. Alphe	NRSD	12 Offset	NRSD	0	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2																										
Current	52.32 dB	42.15 dB	41.31 dB	23.17 dB	46.75 dB	51.27 dB	50.34 dB																														
Average	52.42 dB	42.43 dB	41.52 dB	23.19 dB	46.99 dB	51.34 dB	50.74 dB																														
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_PartialRB#max																																					
QPSK	 <table><tr><th>Det. Alphe</th><th>NRSD</th><th>12 Offset</th><th>NRSD</th><th>38</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>50.23 dB</td><td>51.05 dB</td><td>46.59 dB</td><td>23.24 dB</td><td>41.12 dB</td><td>41.84 dB</td><td>52.69 dB</td><td></td><td></td><td></td><td></td></tr><tr><td>Average</td><td>50.25 dB</td><td>50.80 dB</td><td>46.45 dB</td><td>23.25 dB</td><td>41.34 dB</td><td>42.15 dB</td><td>52.79 dB</td><td></td><td></td><td></td><td></td></tr></table>	Det. Alphe	NRSD	12 Offset	NRSD	38	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	Current	50.23 dB	51.05 dB	46.59 dB	23.24 dB	41.12 dB	41.84 dB	52.69 dB					Average	50.25 dB	50.80 dB	46.45 dB	23.25 dB	41.34 dB	42.15 dB	52.79 dB				
Det. Alphe	NRSD	12 Offset	NRSD	38	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2																										
Current	50.23 dB	51.05 dB	46.59 dB	23.24 dB	41.12 dB	41.84 dB	52.69 dB																														
Average	50.25 dB	50.80 dB	46.45 dB	23.25 dB	41.34 dB	42.15 dB	52.79 dB																														
Channel Bandwidth=Lowest (10 MHz)_QPSK_MCH_FullIRB#0																																					
QPSK	 <table><tr><th>Det. Alphe</th><th>NRSD</th><th>50 Offset</th><th>NRSD</th><th>0</th><th>UTRA 2</th><th>UTRA 1</th><th>E-UTRA 1</th><th>E-UTRA (Carrier)</th><th>E-UTRA 1</th><th>UTRA 1</th><th>UTRA 2</th></tr><tr><td>Current</td><td>46.34 dB</td><td>41.70 dB</td><td>39.68 dB</td><td>22.11 dB</td><td>41.03 dB</td><td>42.71 dB</td><td>48.36 dB</td><td></td><td></td><td></td><td></td></tr><tr><td>Average</td><td>46.61 dB</td><td>41.81 dB</td><td>39.84 dB</td><td>22.18 dB</td><td>41.26 dB</td><td>42.94 dB</td><td>48.42 dB</td><td></td><td></td><td></td><td></td></tr></table>	Det. Alphe	NRSD	50 Offset	NRSD	0	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2	Current	46.34 dB	41.70 dB	39.68 dB	22.11 dB	41.03 dB	42.71 dB	48.36 dB					Average	46.61 dB	41.81 dB	39.84 dB	22.18 dB	41.26 dB	42.94 dB	48.42 dB				
Det. Alphe	NRSD	50 Offset	NRSD	0	UTRA 2	UTRA 1	E-UTRA 1	E-UTRA (Carrier)	E-UTRA 1	UTRA 1	UTRA 2																										
Current	46.34 dB	41.70 dB	39.68 dB	22.11 dB	41.03 dB	42.71 dB	48.36 dB																														
Average	46.61 dB	41.81 dB	39.84 dB	22.18 dB	41.26 dB	42.94 dB	48.42 dB																														
Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#0																																					

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QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_QPSK_HCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#0</p>


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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_LCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#0</p>

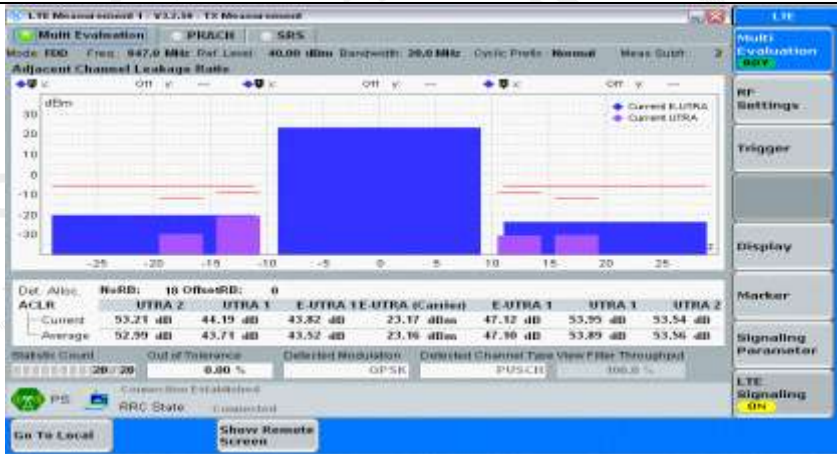
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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (10 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	

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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_MCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#0</p>

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QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_PartialRB#max</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_QPSK_HCH_FullIRB#0</p>
QPSK	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_LCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_MCH_FullRB#0</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#0</p>

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16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_PartialRB#max</p>
16QAM	 <p>Channel Bandwidth=Lowest (20 MHz)_16QAM_HCH_FullRB#0</p>
16QAM	

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5. Transmitter Spurious Emissions

Test Result

NTV

Channel Bandwidth=Lowest (5 MHz)

Channel Bandwidth=Lowest (5 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	5 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

Channel Bandwidth=Highest (20 MHz)

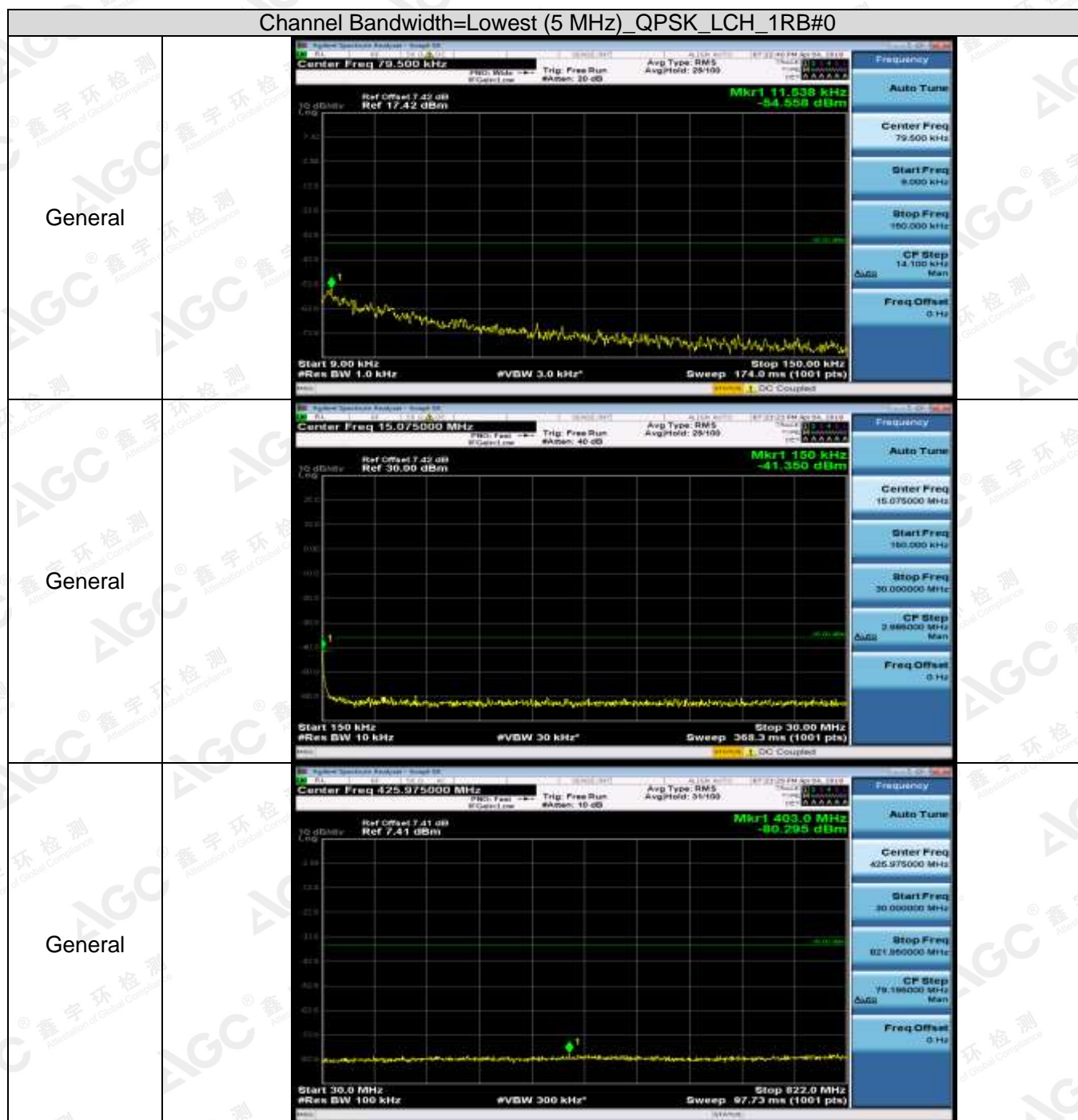
Channel Bandwidth=Highest (20 MHz)							
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		UE output power	Verdict
				RB Size	RB Offset		
Normal	QPSK	20 MHz	Low range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			Mid range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass
			High range	1	0	PUMAX	Pass
					max	PUMAX	Pass
				Full	0	PUMAX	Pass

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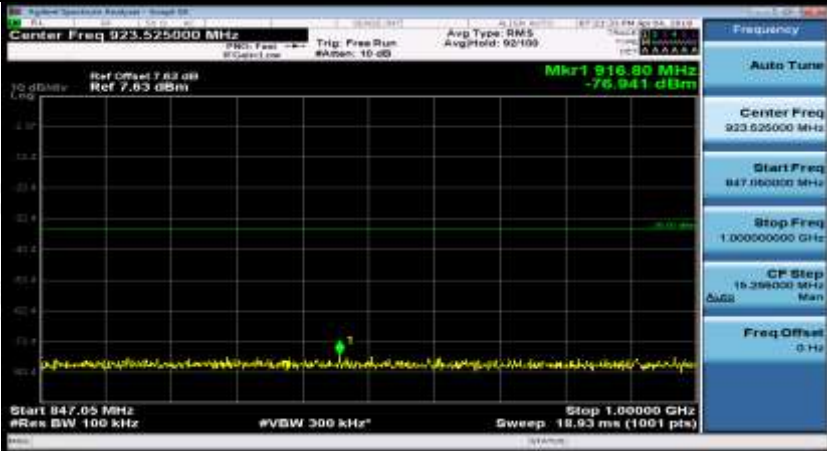
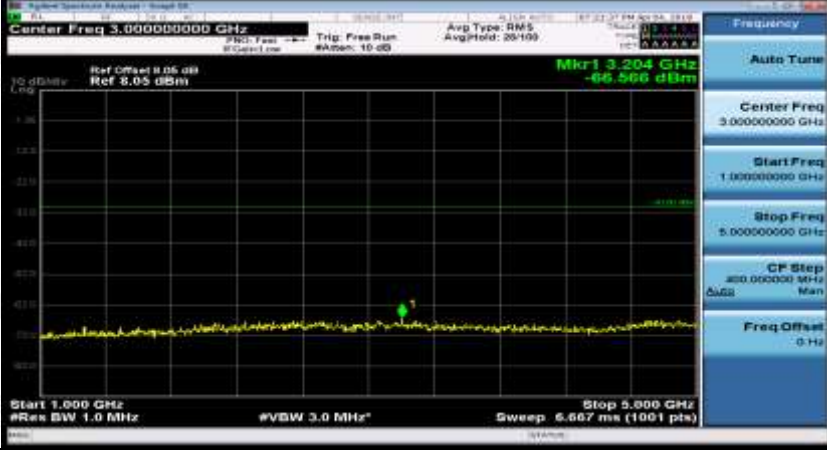

Test Graphs

NTNV

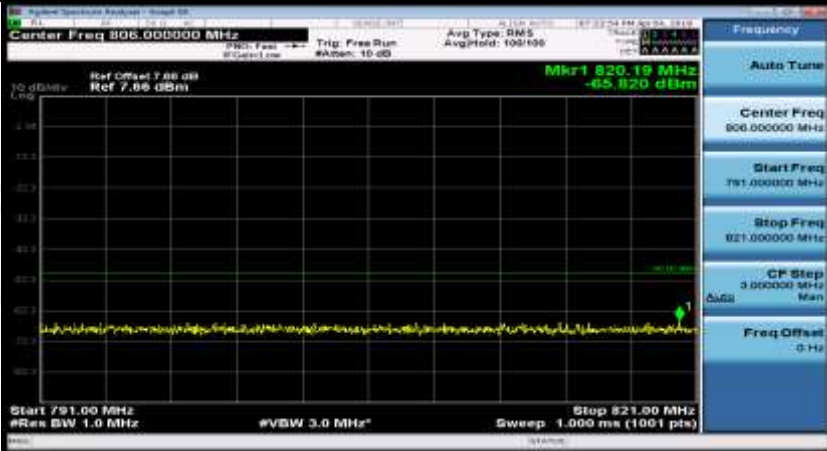
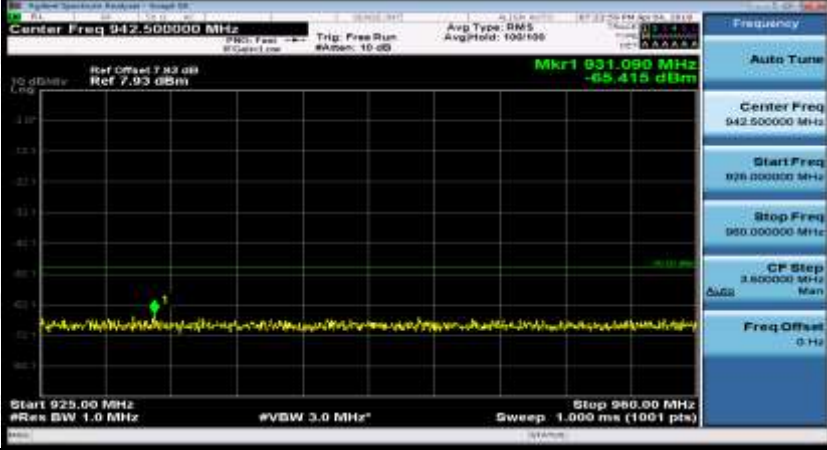
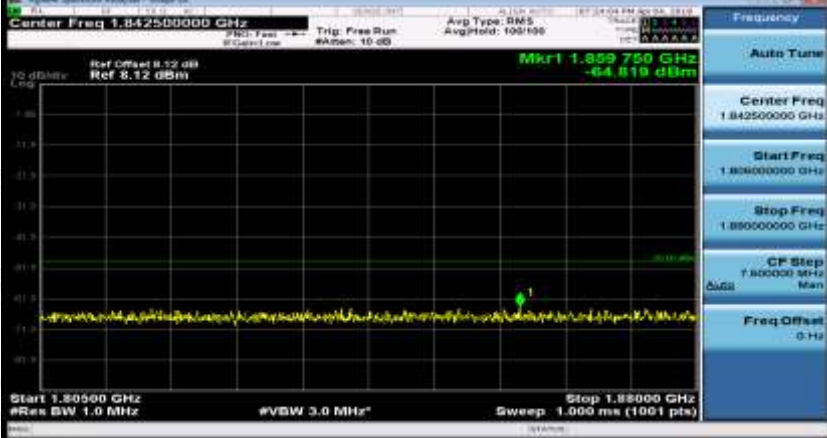
Channel Bandwidth=Lowest (5 MHz)



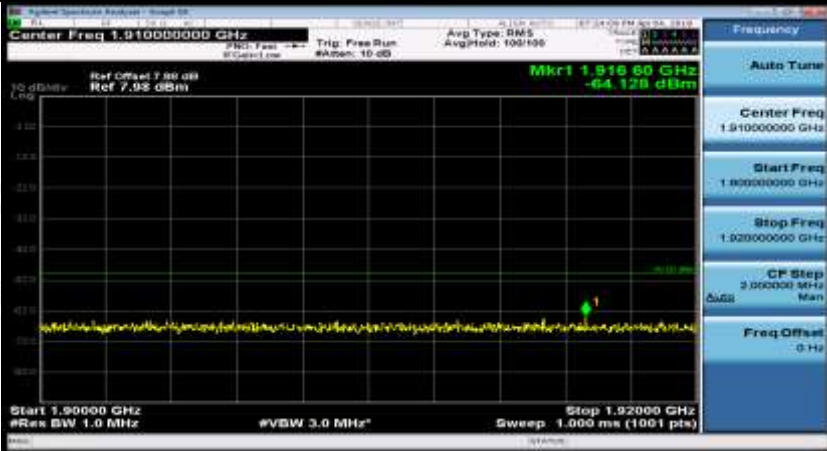
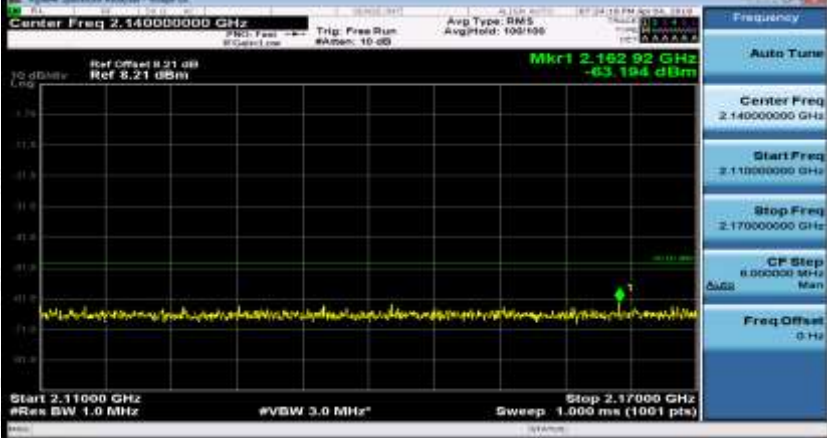
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General	
General	
General	

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Co-existence	
Co-existence	
Co-existence	

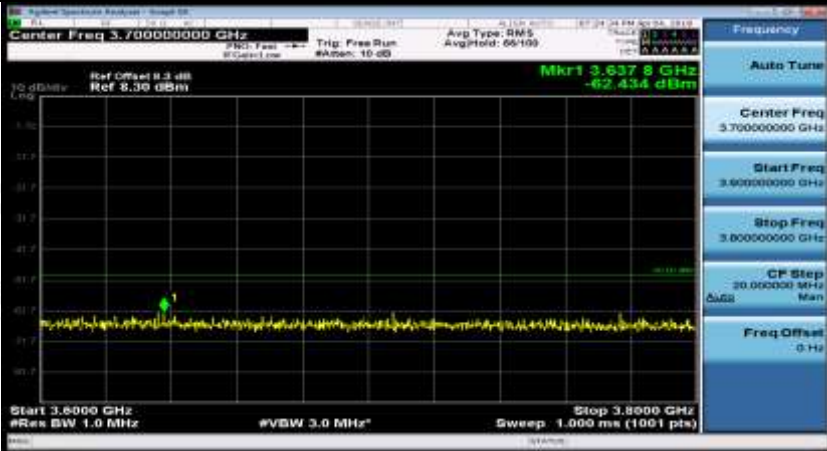
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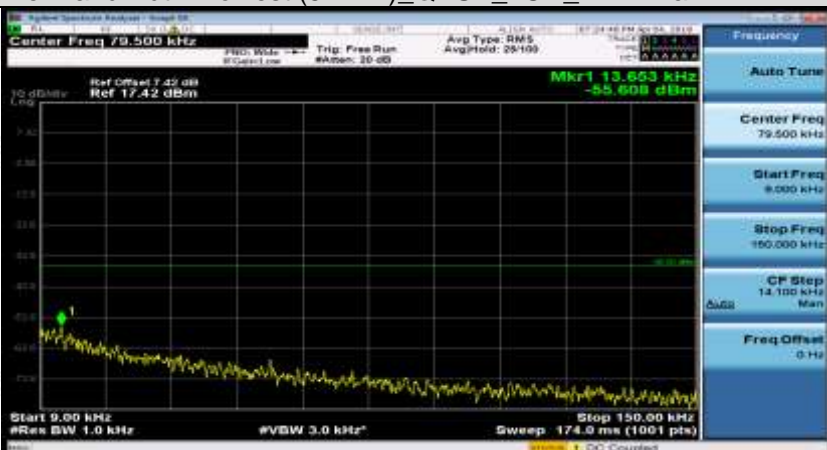

Co-existence	
Co-existence	
Co-existence	

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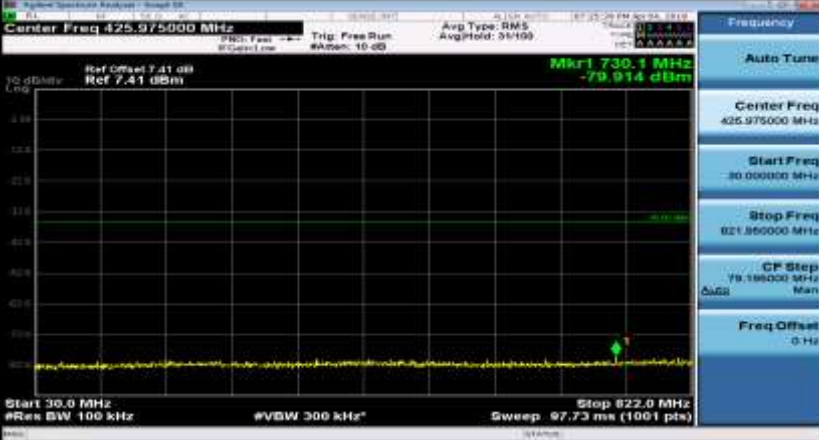
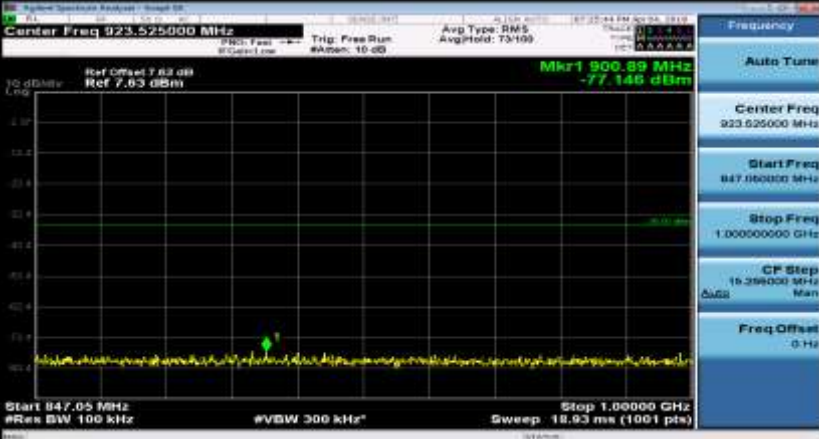
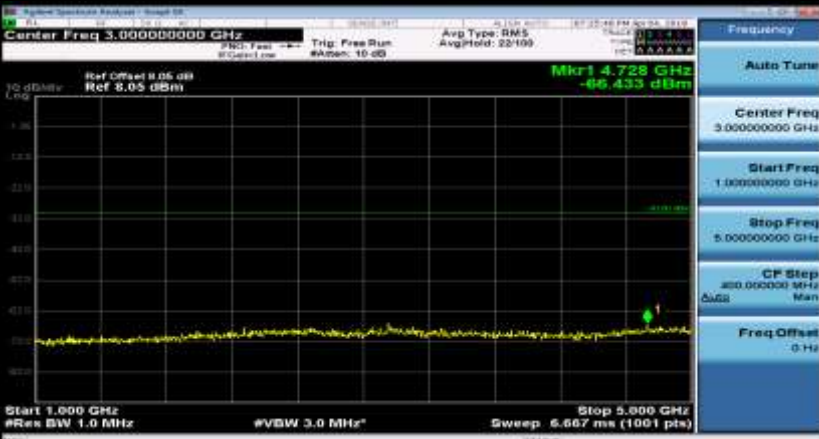
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_1RB#max	
General	
General	

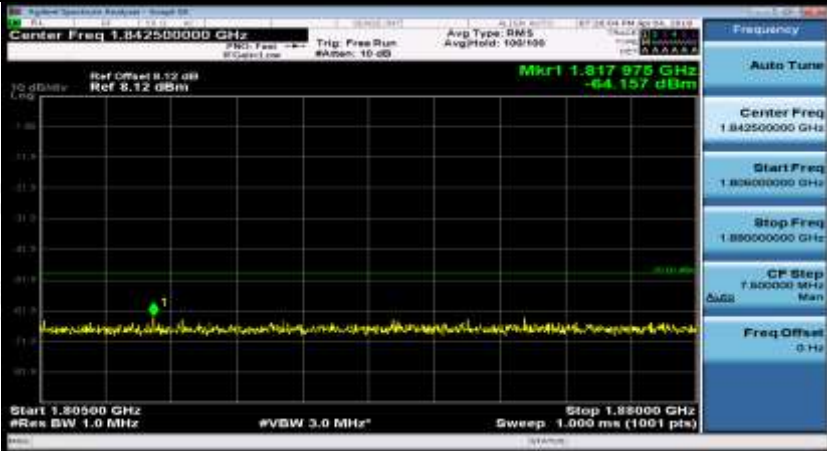
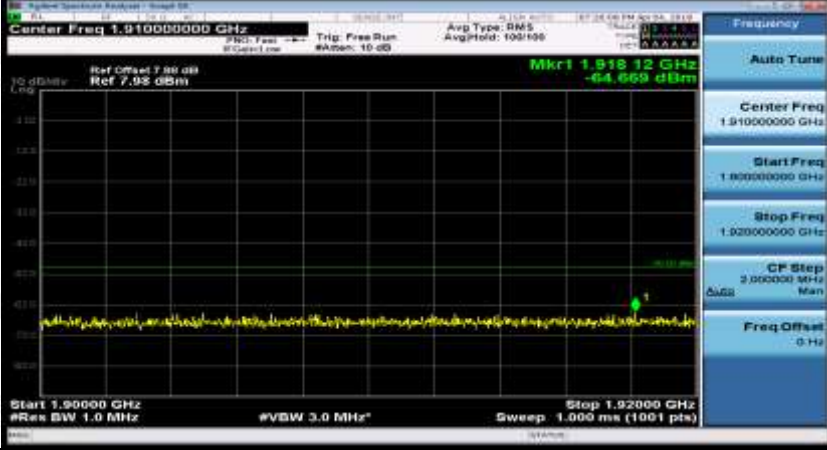
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General			
General			
General			


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General			
Co-existence			
Co-existence			

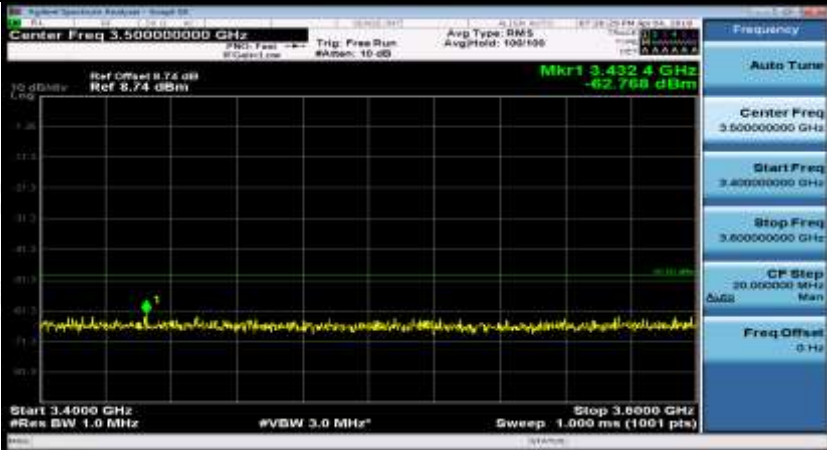
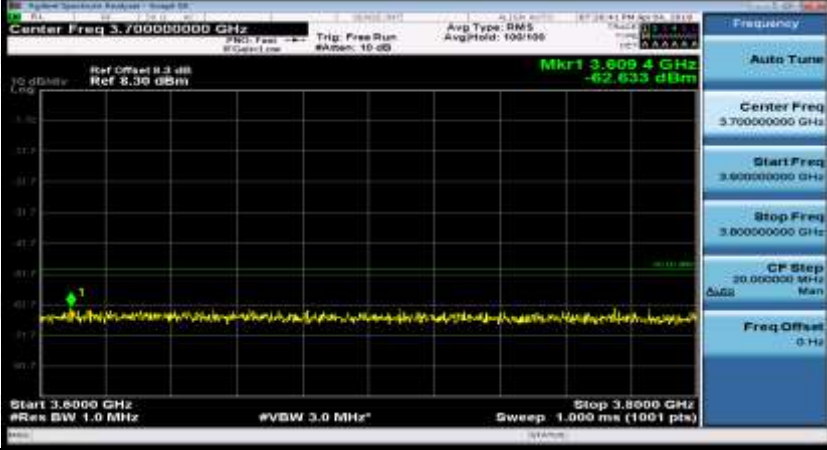
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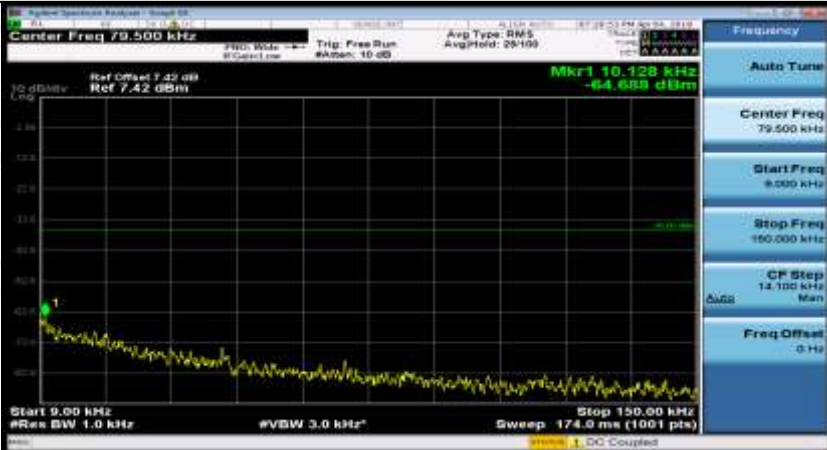
Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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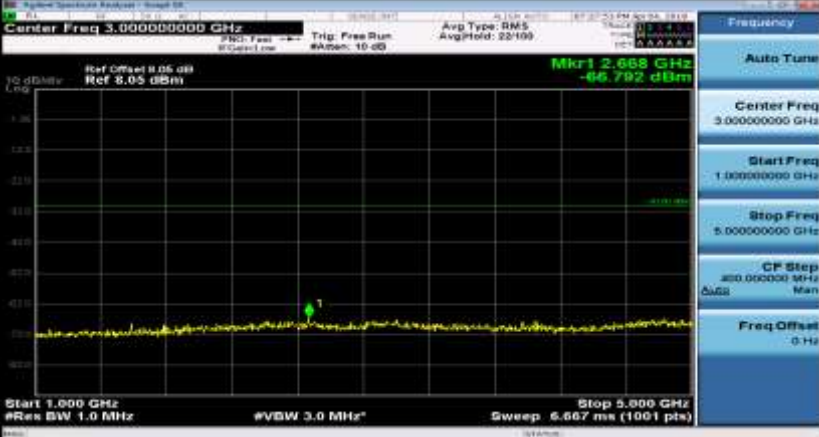


Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_LCH_FullIRB#0	
General	

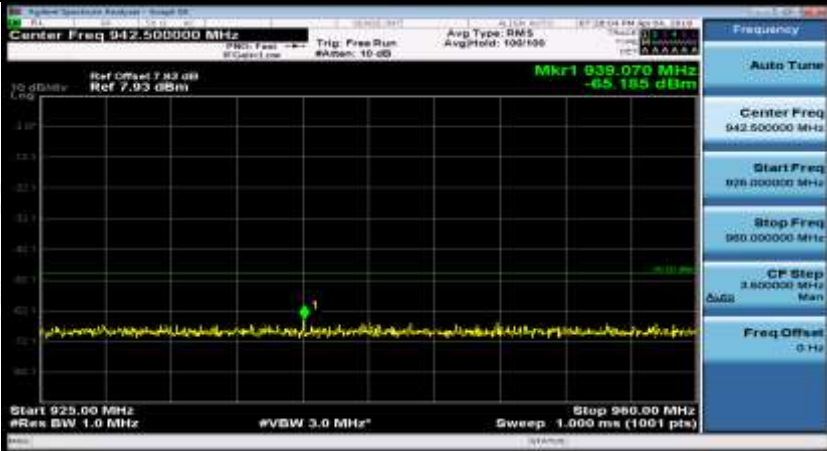
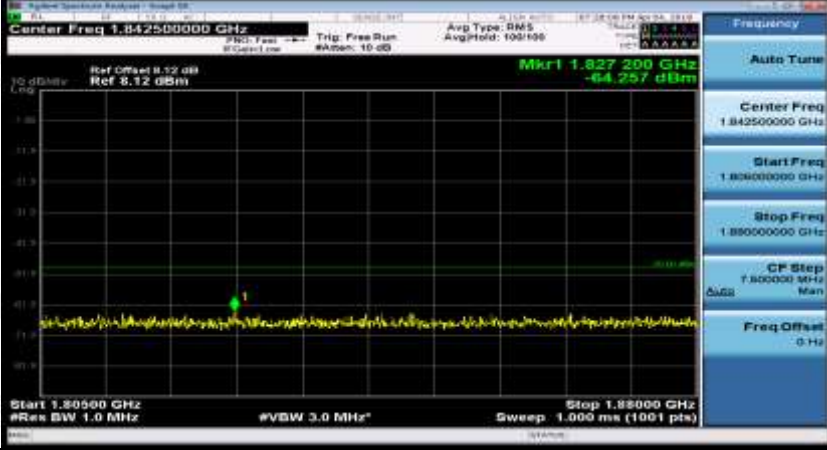
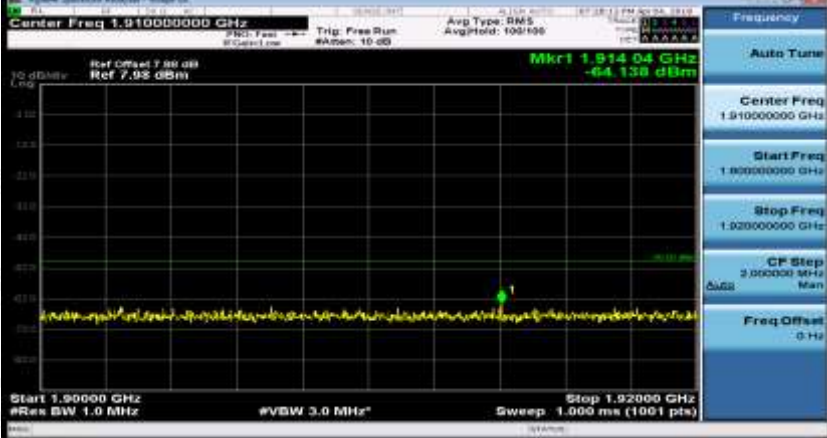
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General			
General			
General			

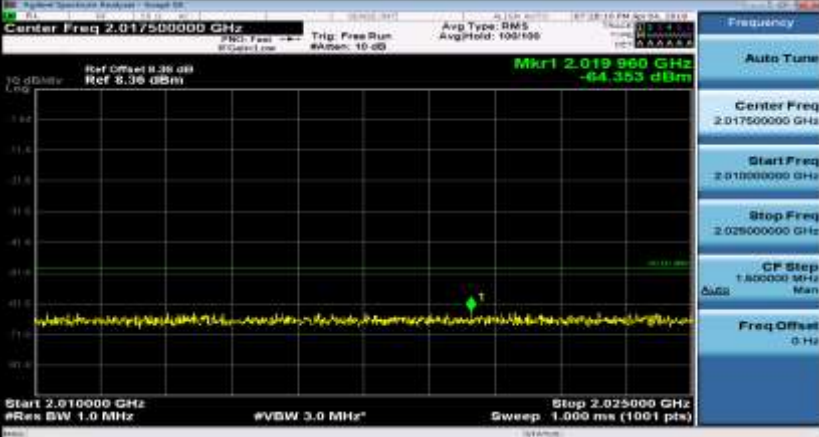
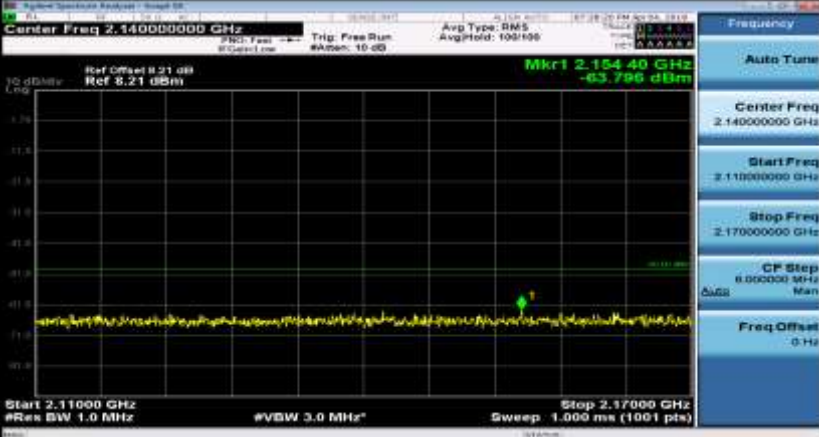

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General			
General			
Co-existence			

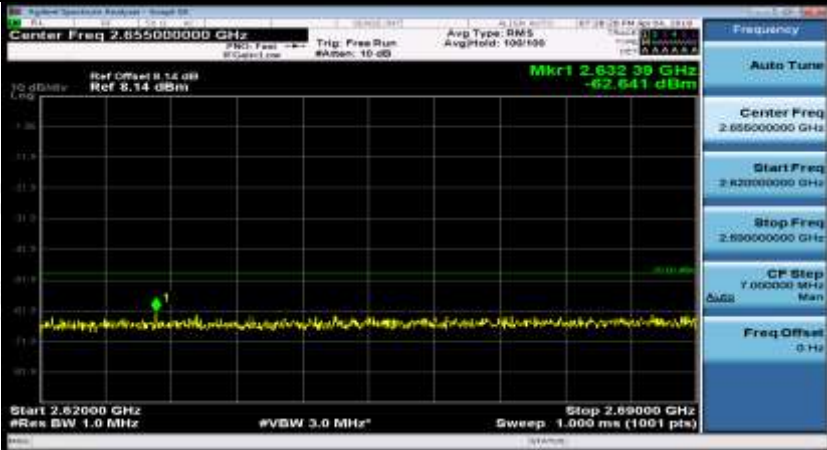
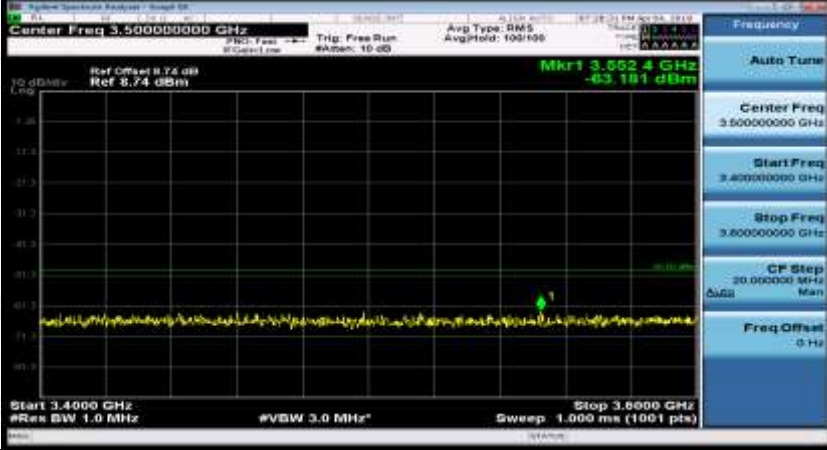
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Co-existence	
Co-existence	
Co-existence	

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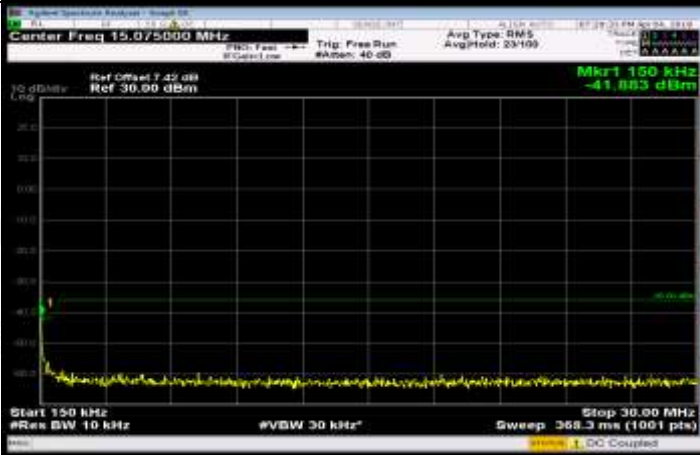
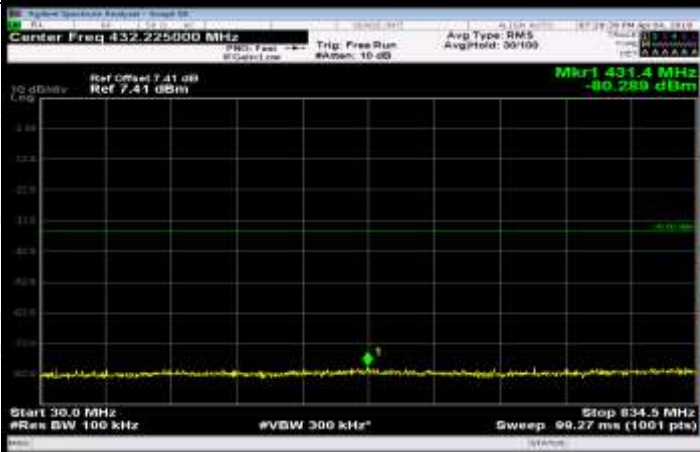
Co-existence			
Co-existence			
Co-existence			

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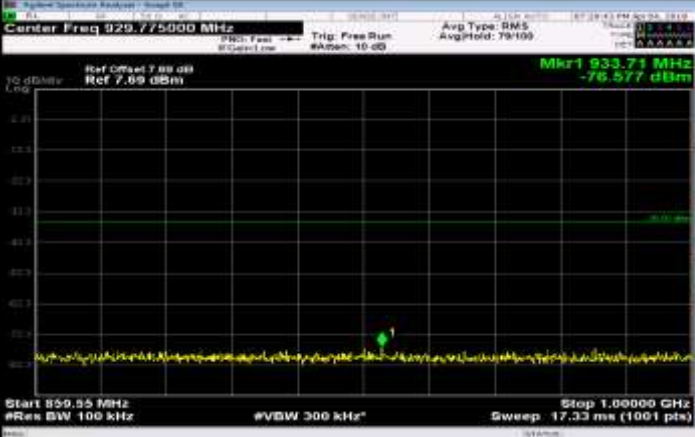
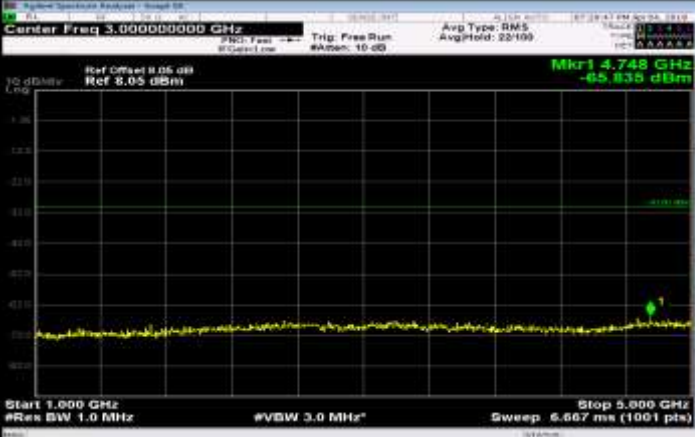

Co-existence	
Co-existence	
Co-existence	
Additional	NA

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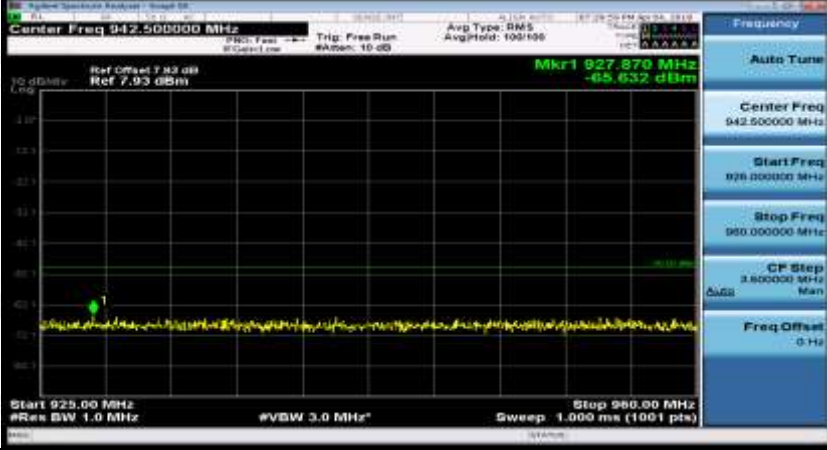
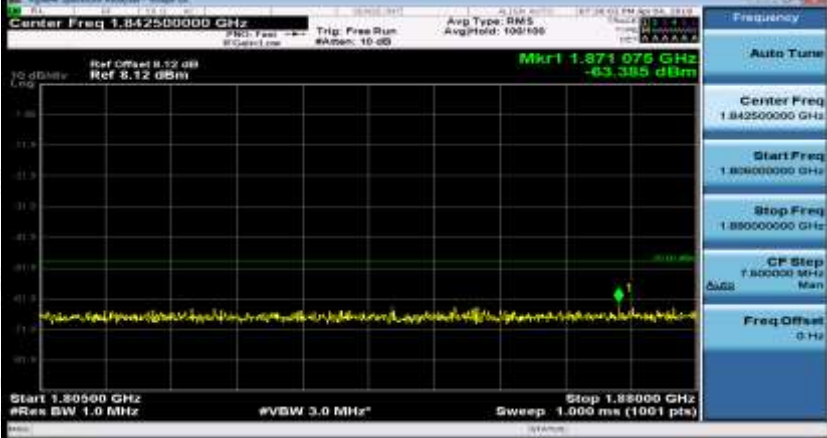
Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#0

General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 79.500 kHz</p> <p>Start Freq 8.000 kHz</p> <p>Stop Freq 150.000 kHz</p> <p>CF Step 14.100 kHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 15.075000 MHz</p> <p>Start Freq 150.000 kHz</p> <p>Stop Freq 30.000000 MHz</p> <p>CF Step 3.999000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 432.225000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 834.450000 MHz</p> <p>CF Step 80.445000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>

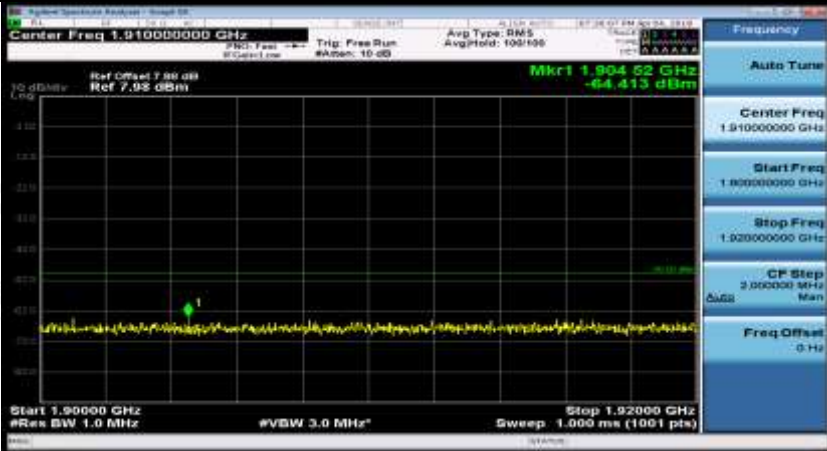
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General			
General			
General			

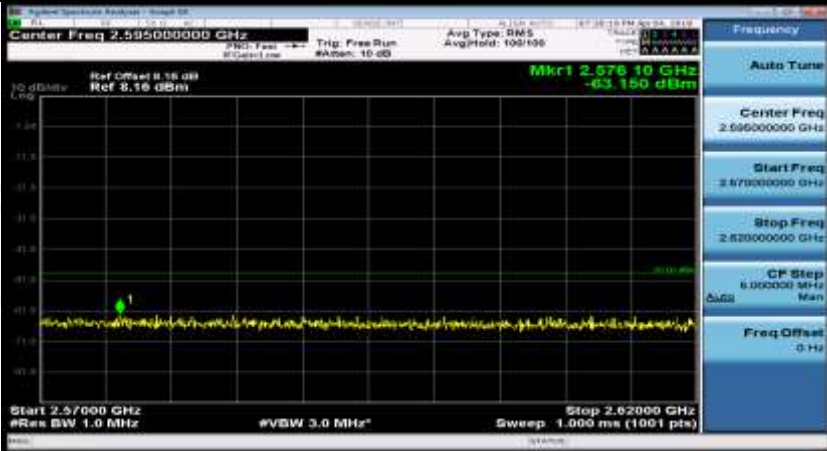

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Co-existence	
Co-existence	
Co-existence	

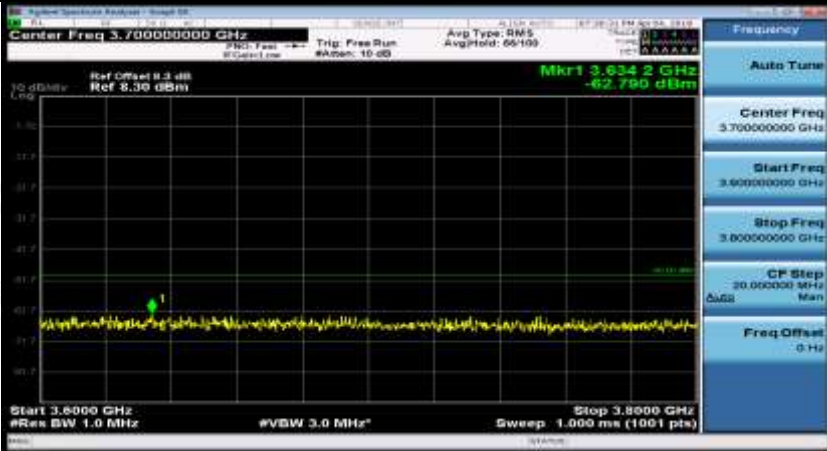
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Co-existence	
Co-existence	
Co-existence	

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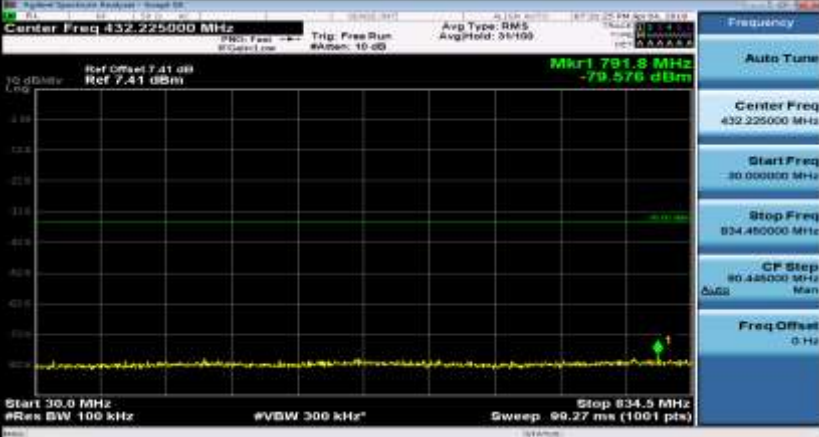
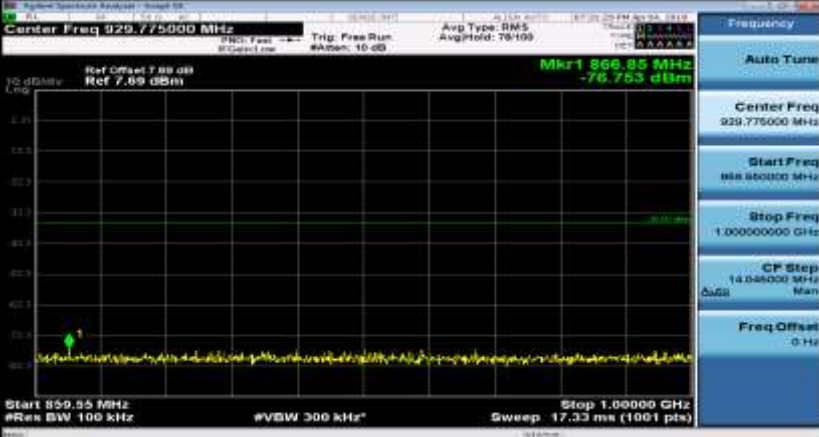

Co-existence	
Co-existence	
Co-existence	

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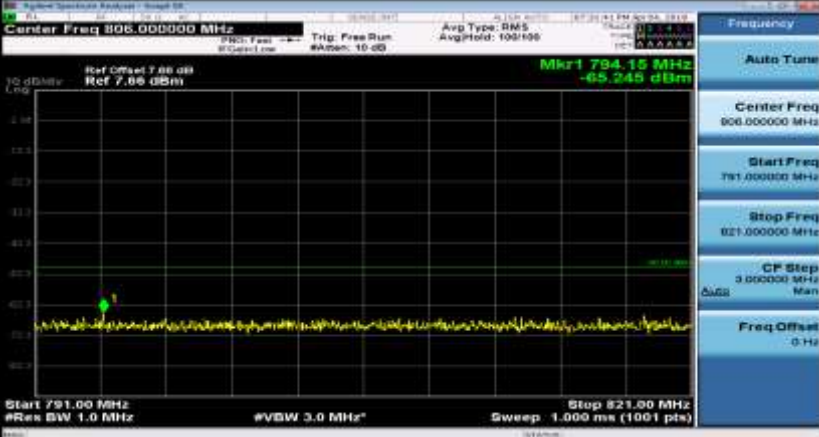
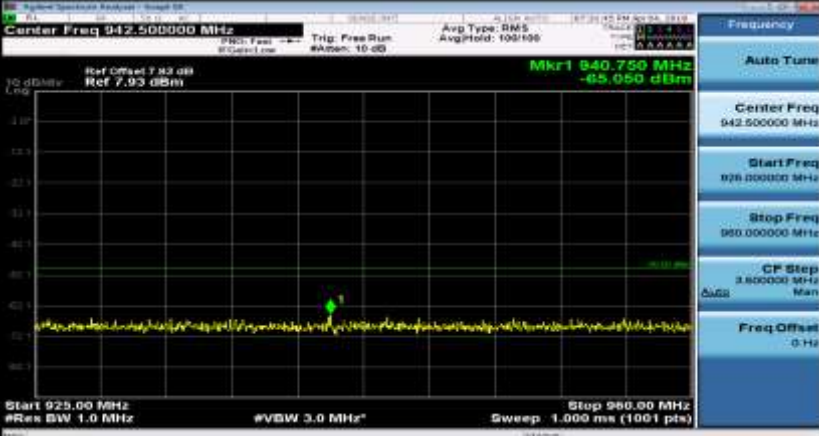
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_1RB#max	
General	
General	

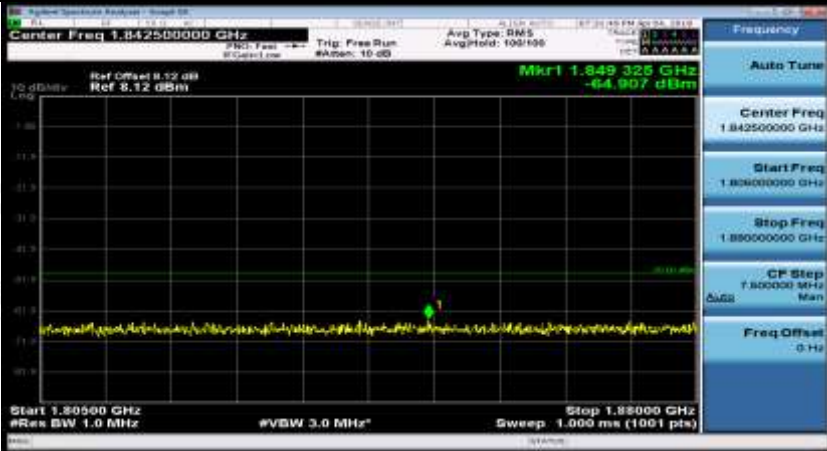
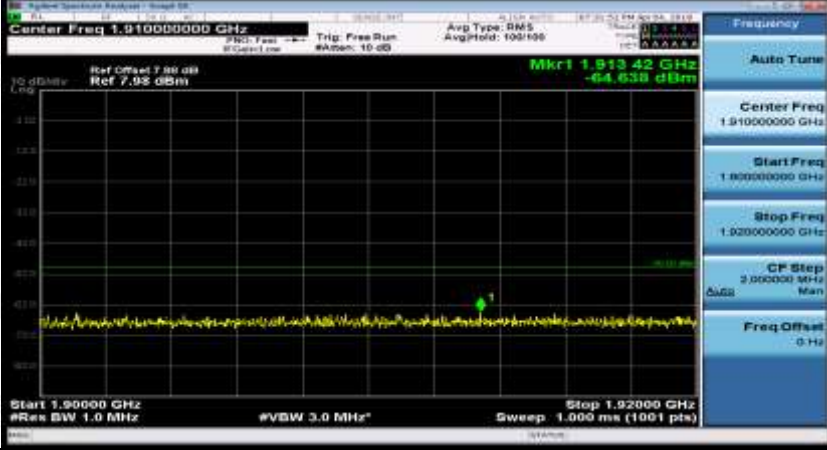
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General			
General			
General			

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General			
Co-existence			
Co-existence			

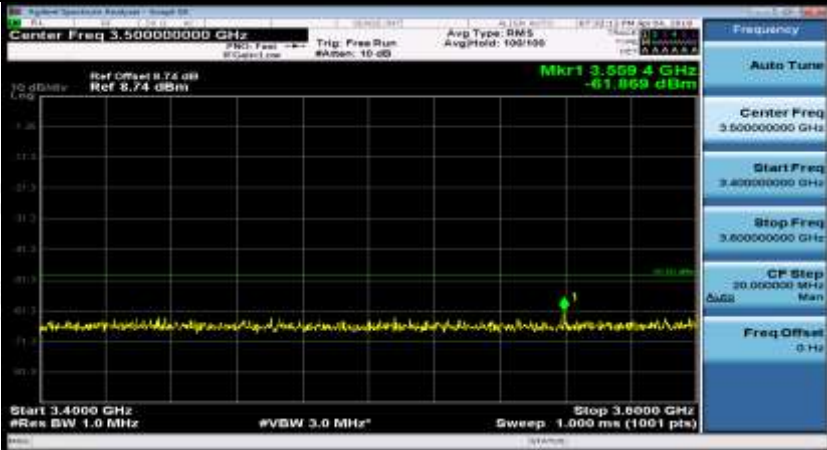

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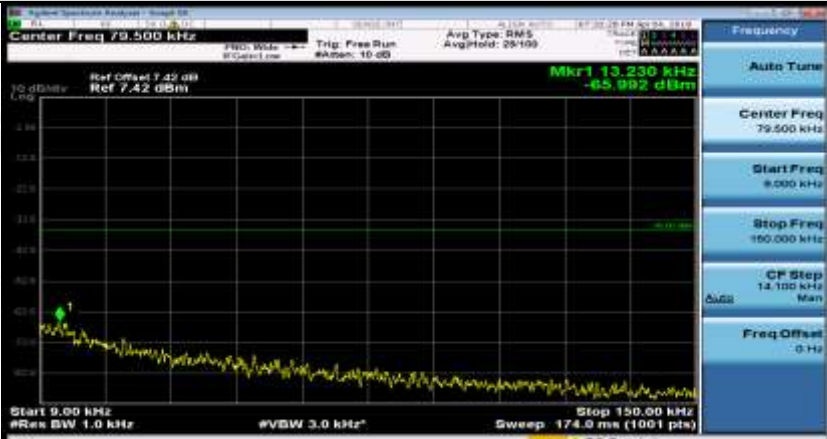
Co-existence	
Co-existence	
Co-existence	

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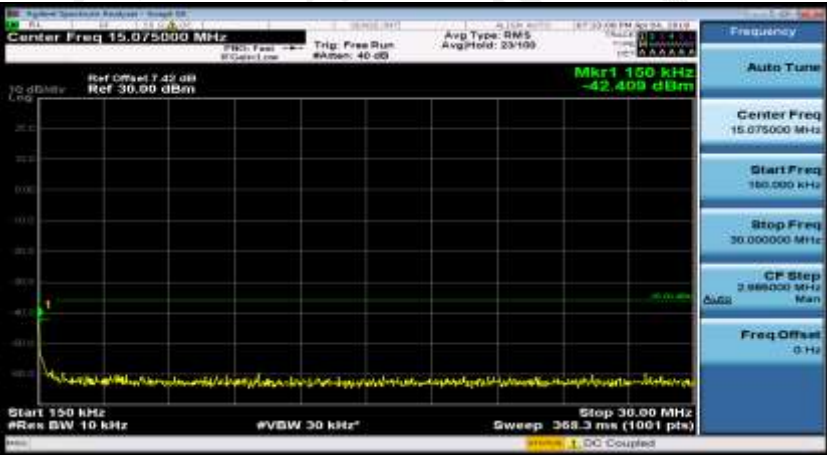
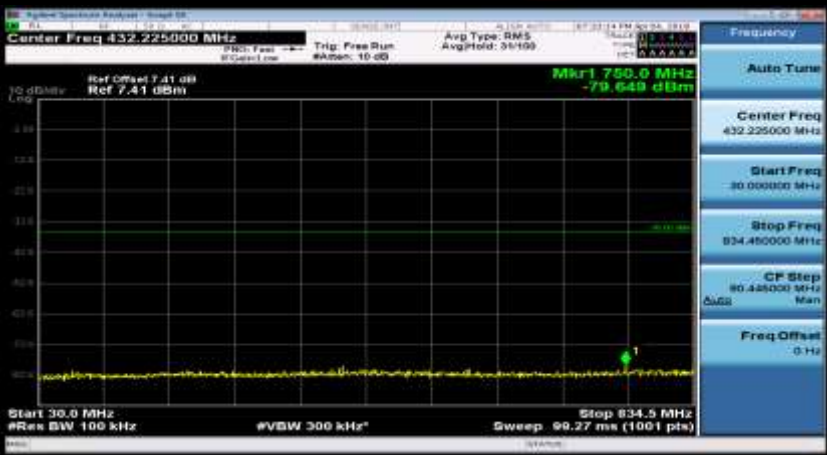
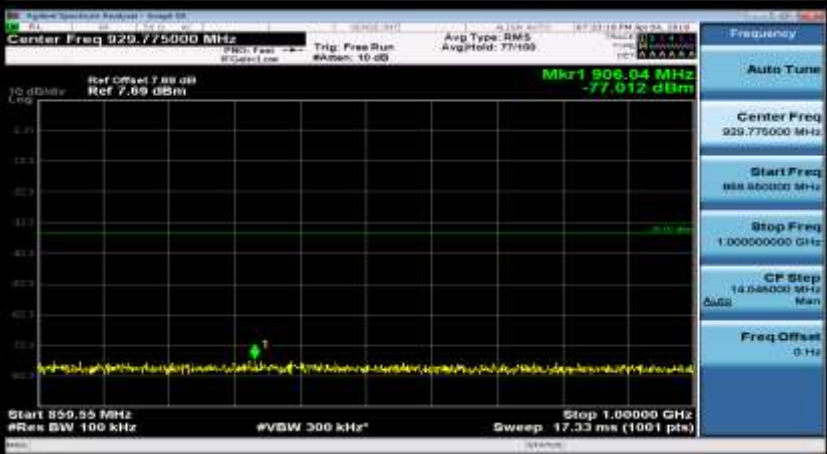
Co-existence	
Co-existence	
Co-existence	

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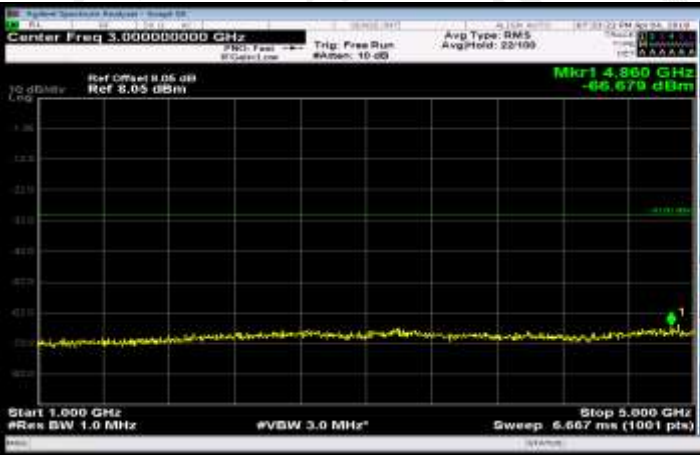

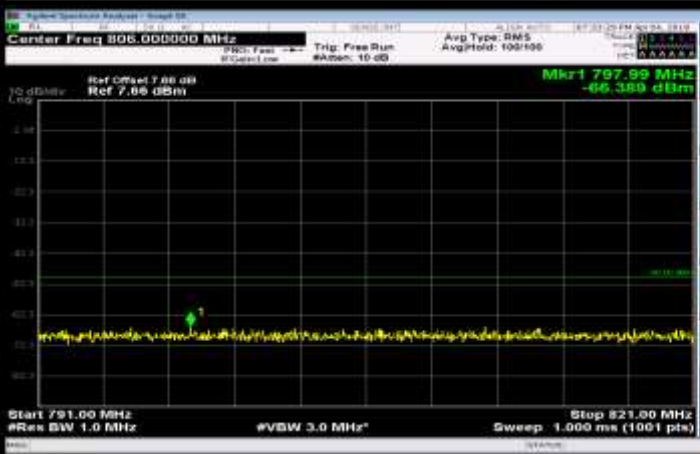
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_MCH_FullRB#0	
General	

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General		
General		
General		

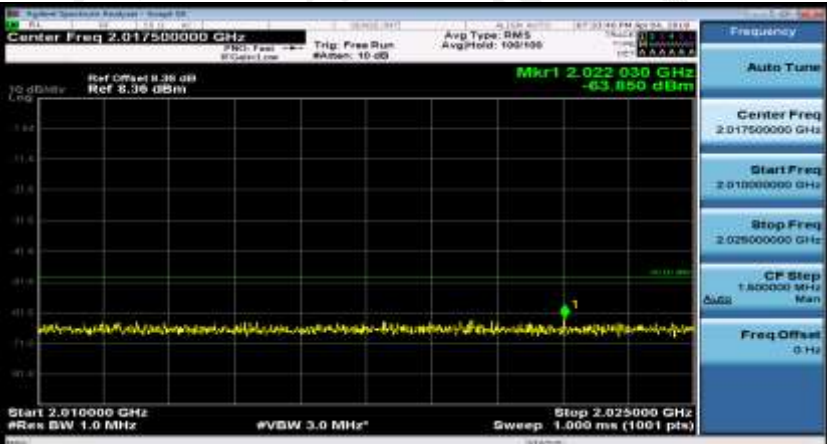
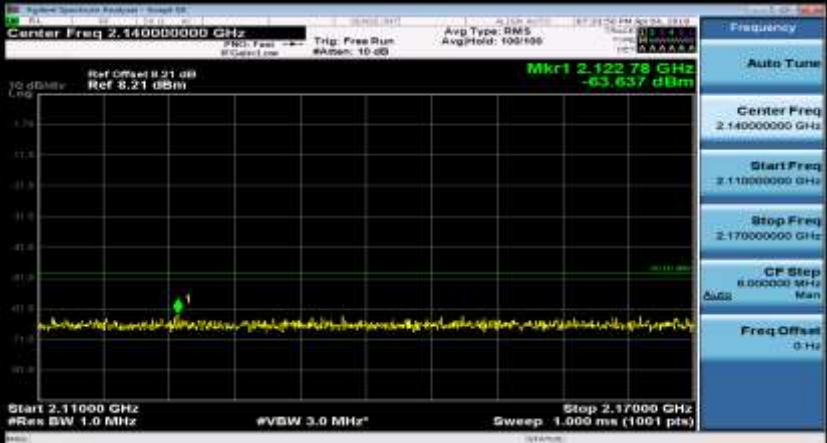
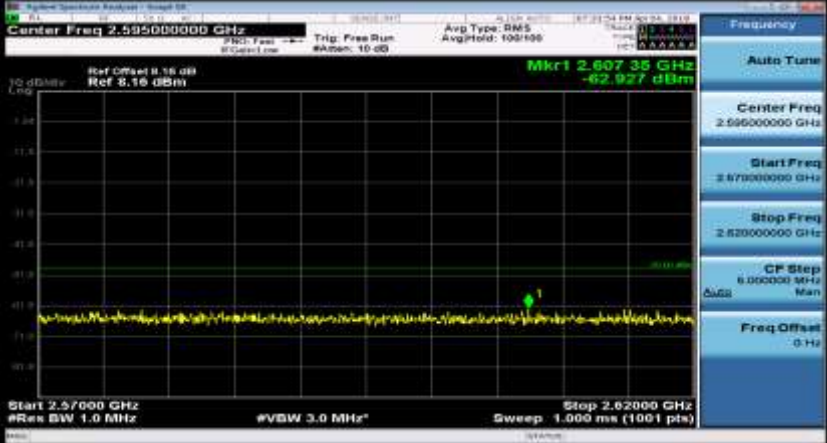
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General		
General		
Co-existence		

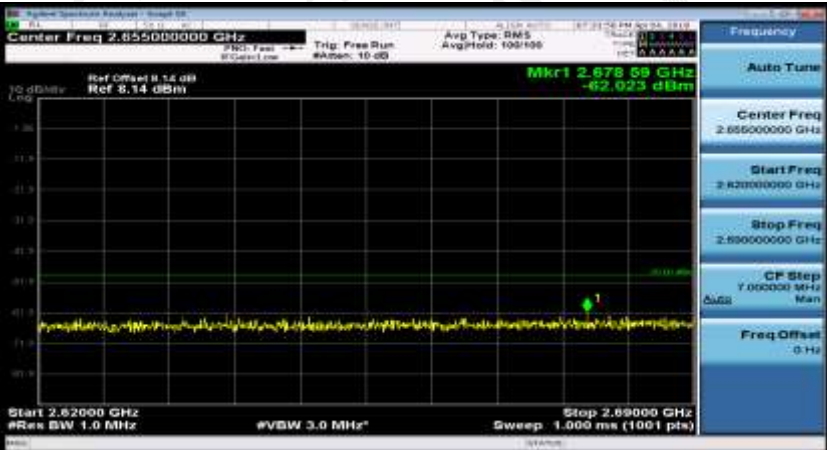
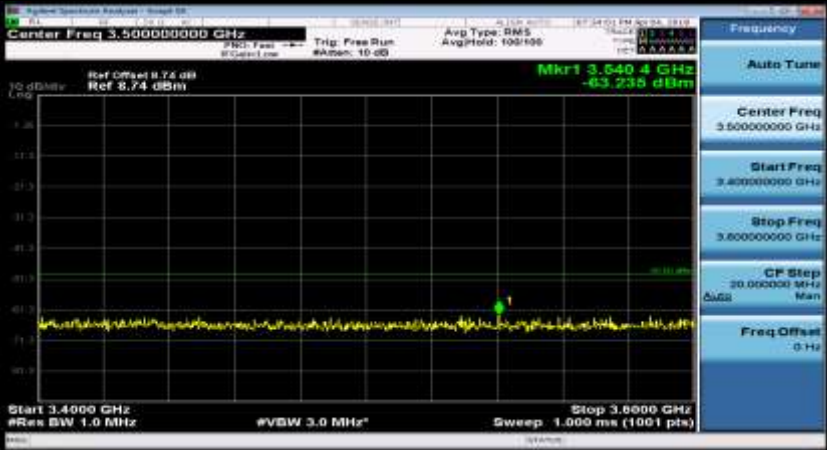
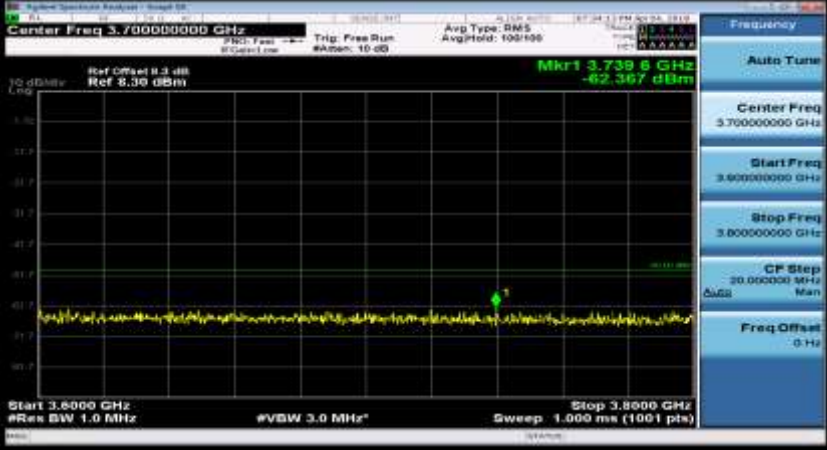
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Co-existence	
Co-existence	
Co-existence	

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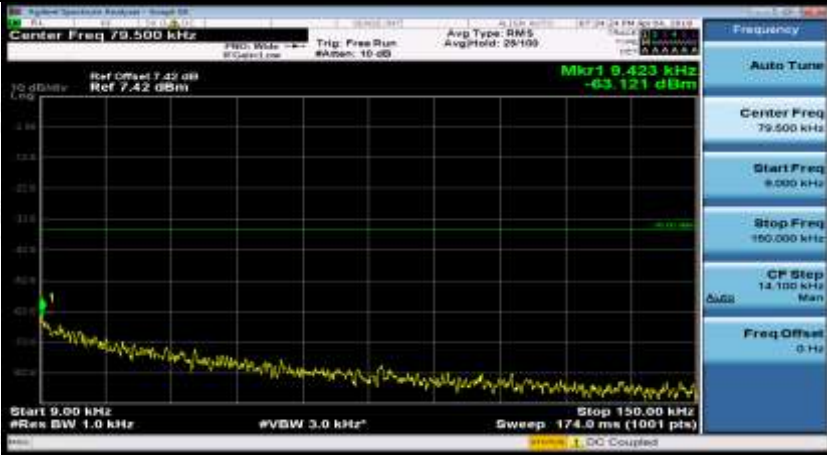
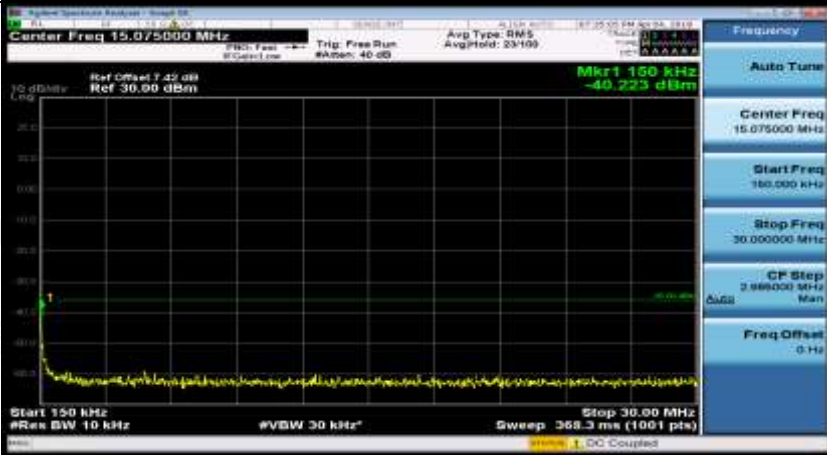
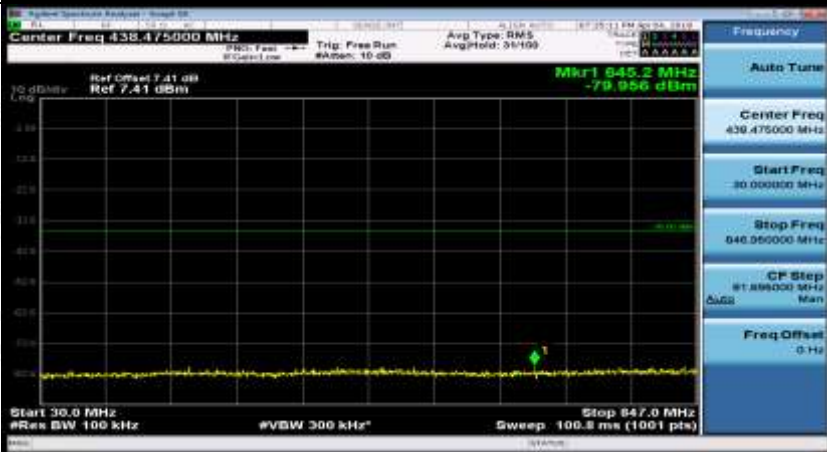
Co-existence	
Co-existence	
Co-existence	

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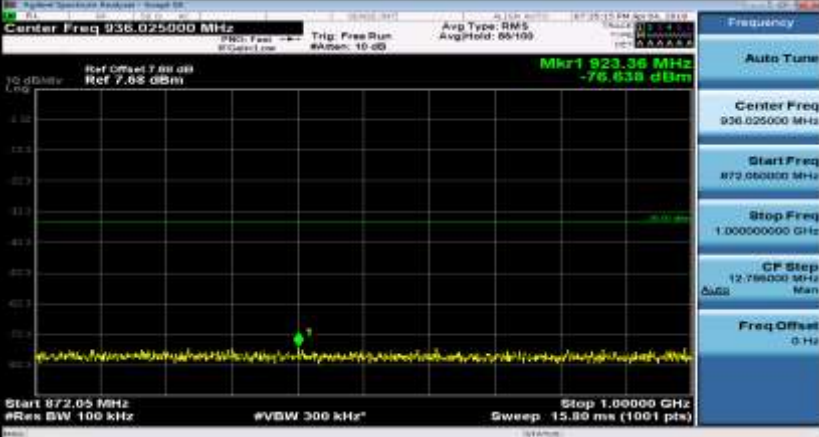
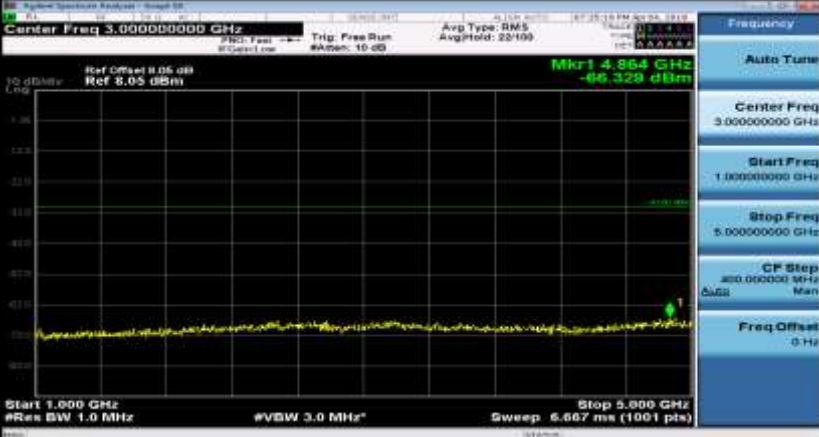

Co-existence	
Co-existence	
Co-existence	
Additional	NA

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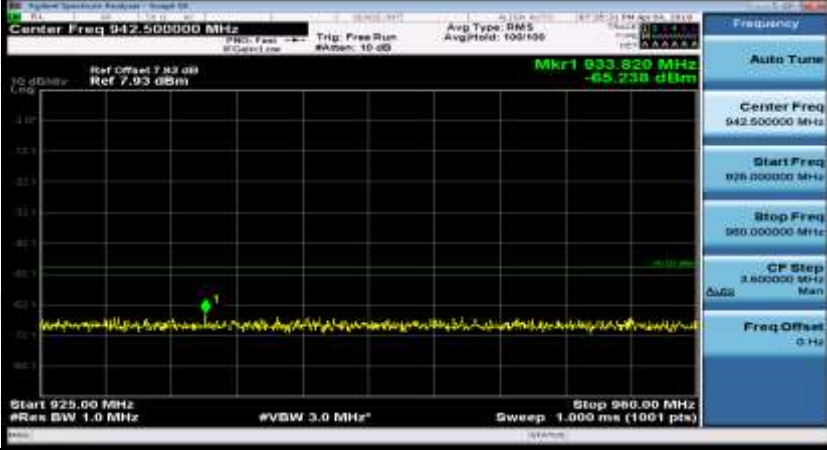
Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#0

General	
General	
General	

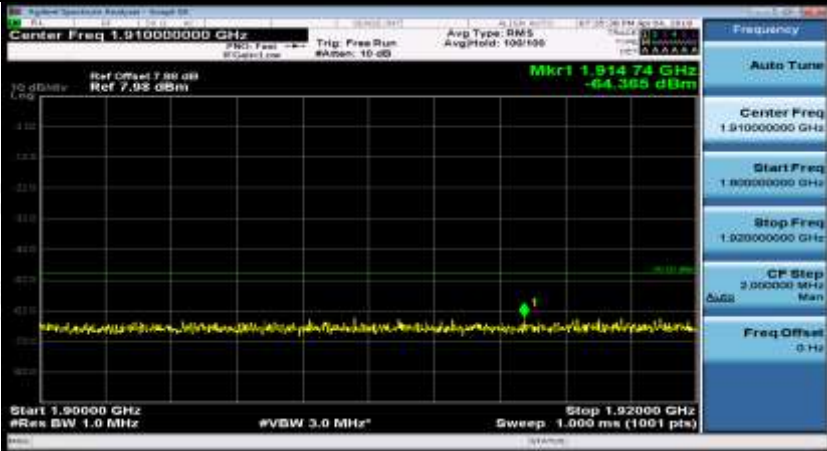
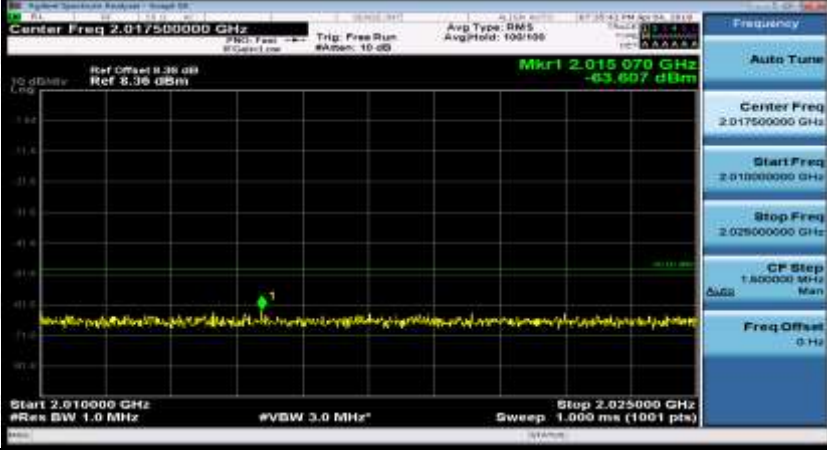
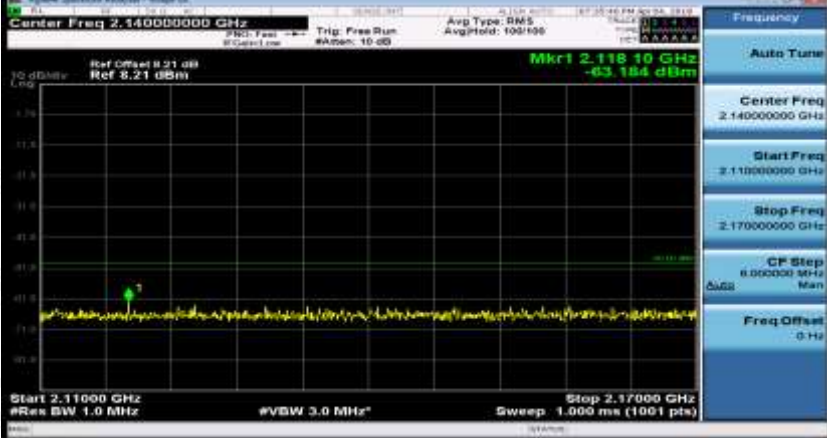
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General			
General			
General			

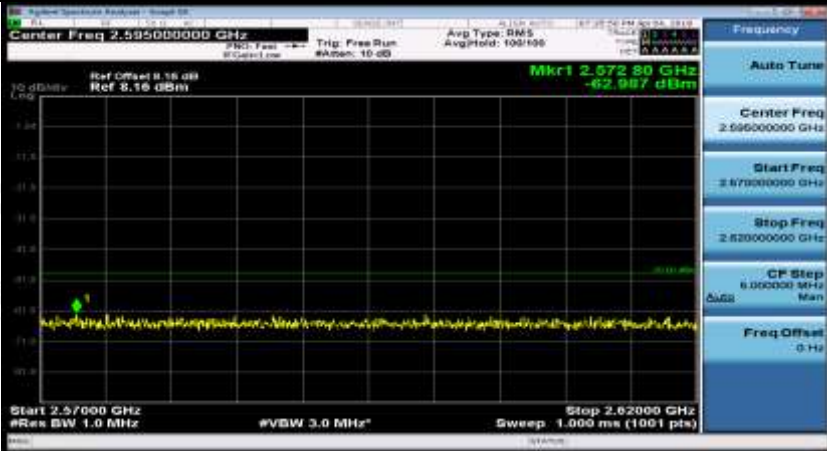
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Co-existence	
Co-existence	
Co-existence	

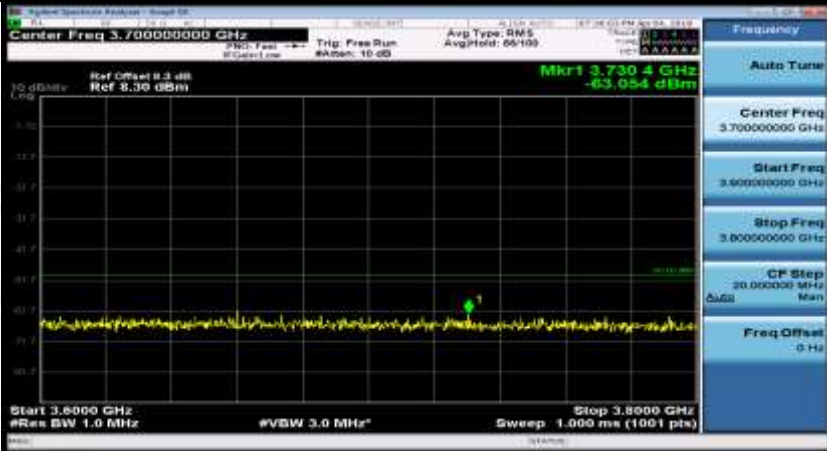
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Co-existence	
Co-existence	
Co-existence	

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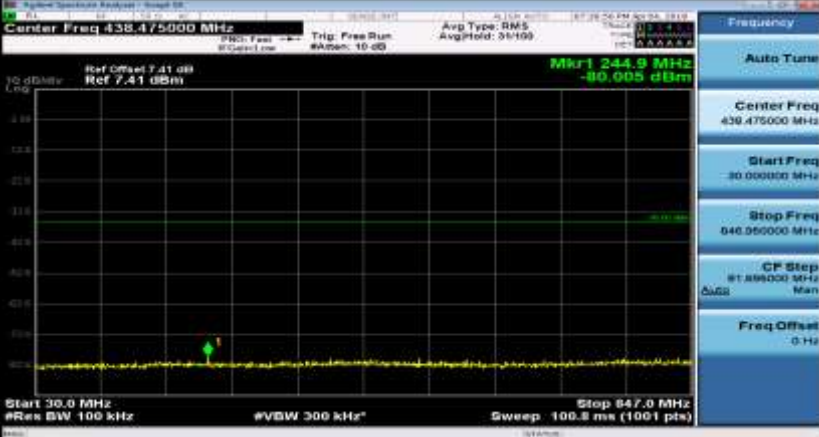
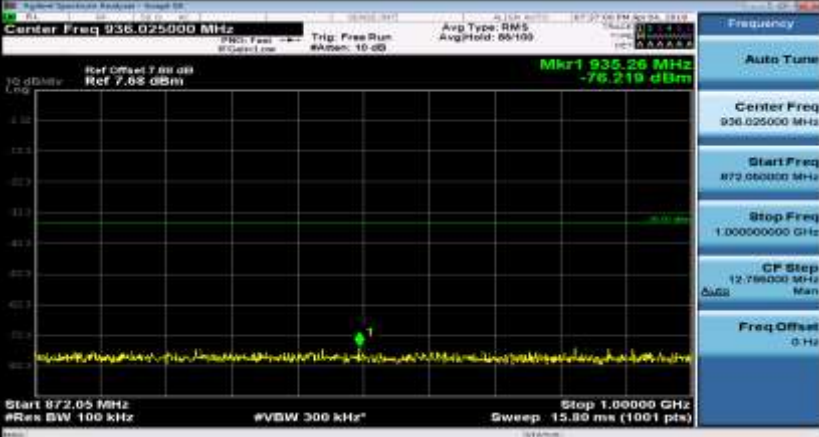
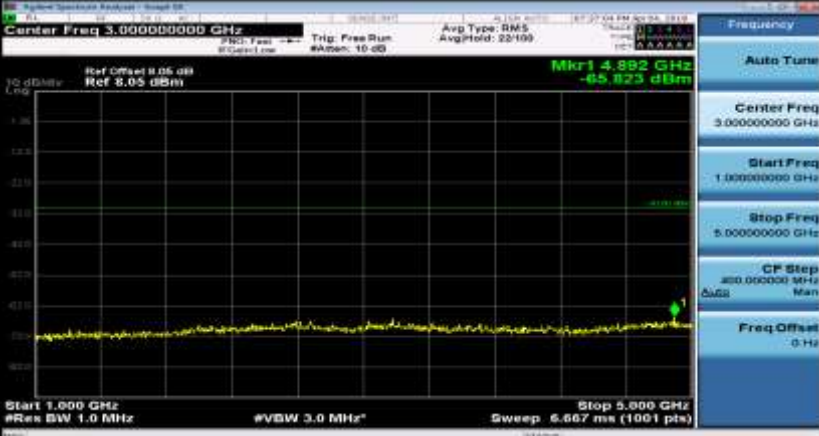
Co-existence	
Co-existence	
Co-existence	

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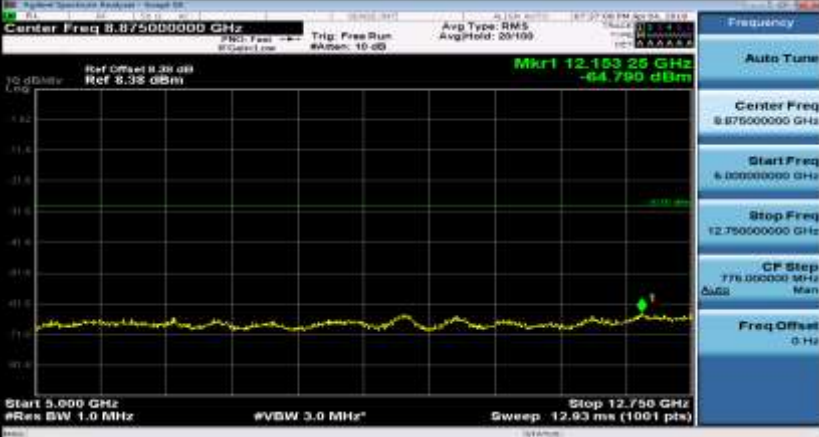
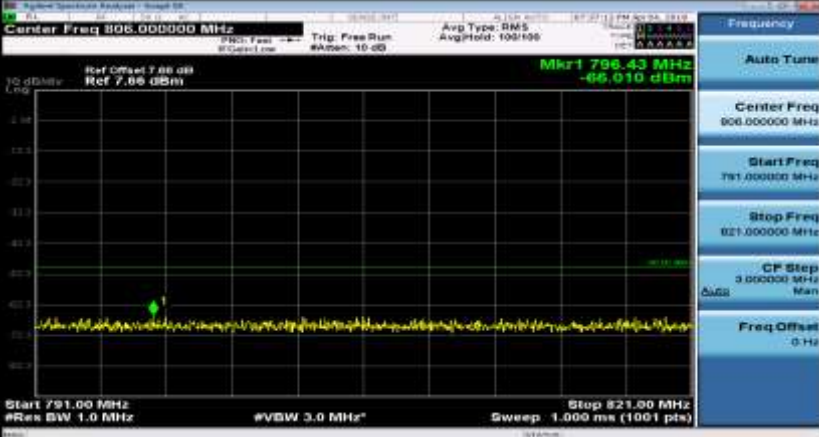
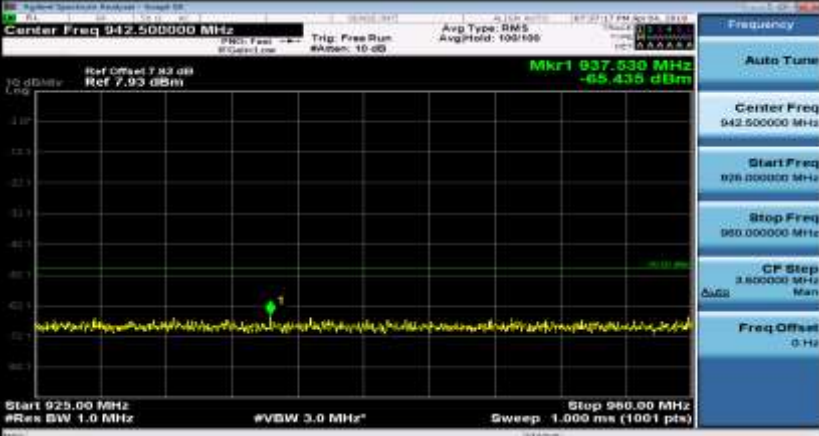
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_1RB#max	
General	
General	

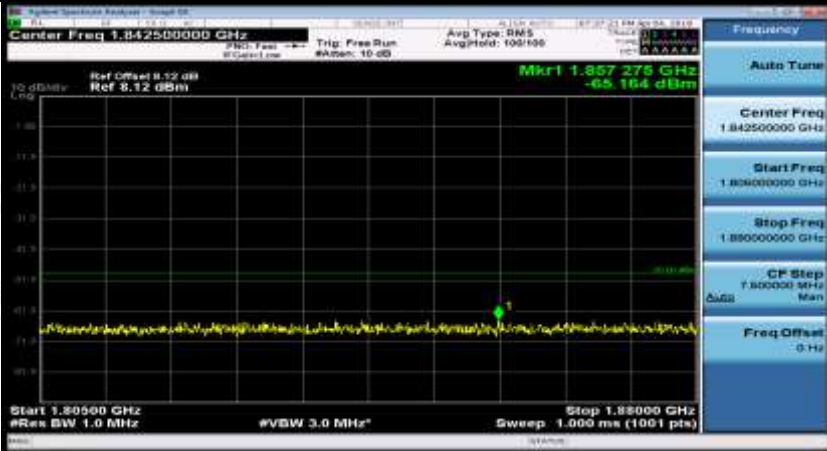
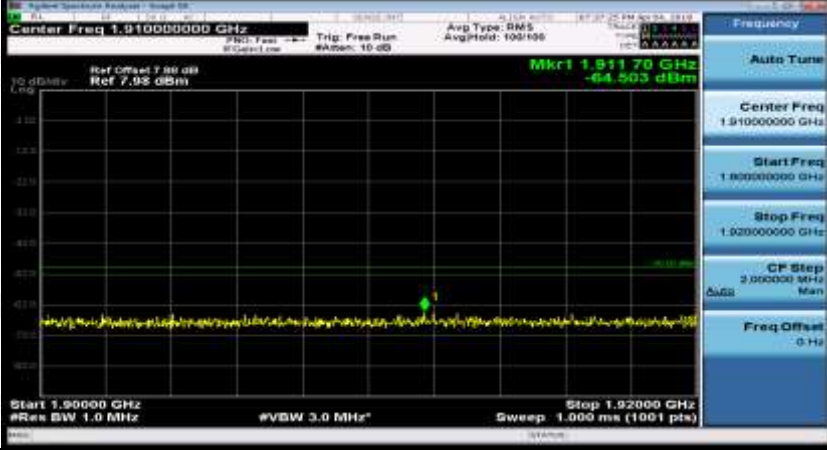
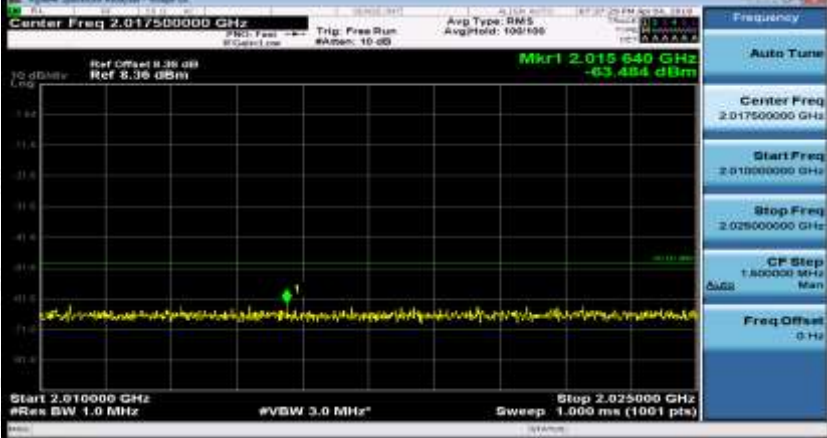
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General			
General			
General			

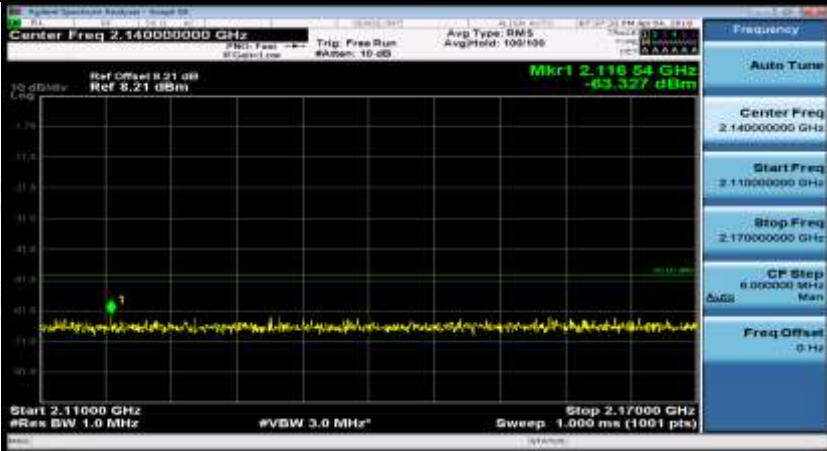
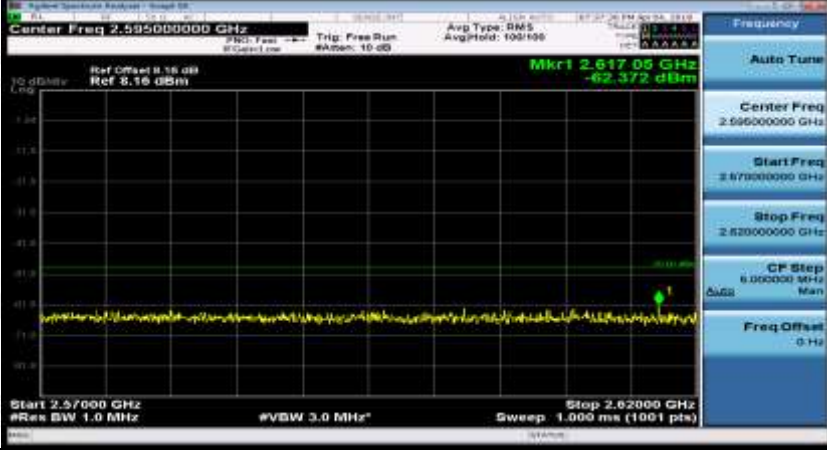

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General			
Co-existence			
Co-existence			

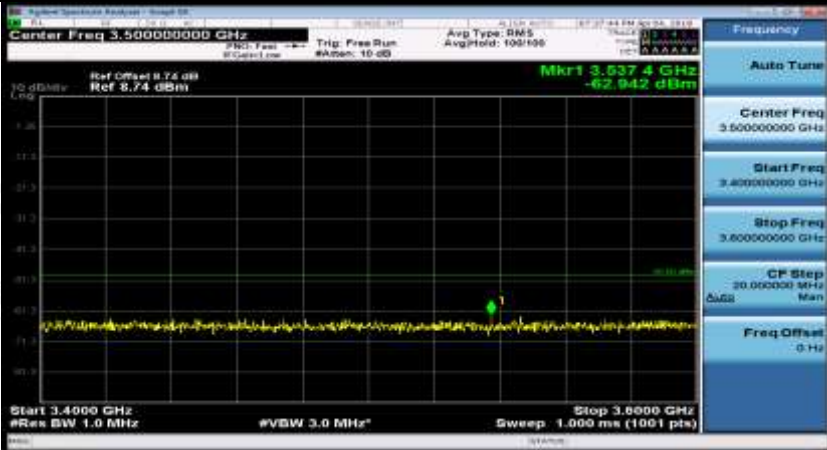
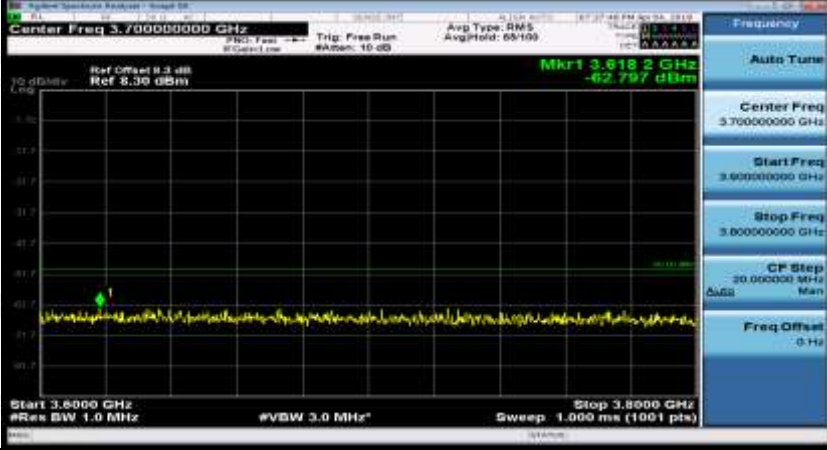
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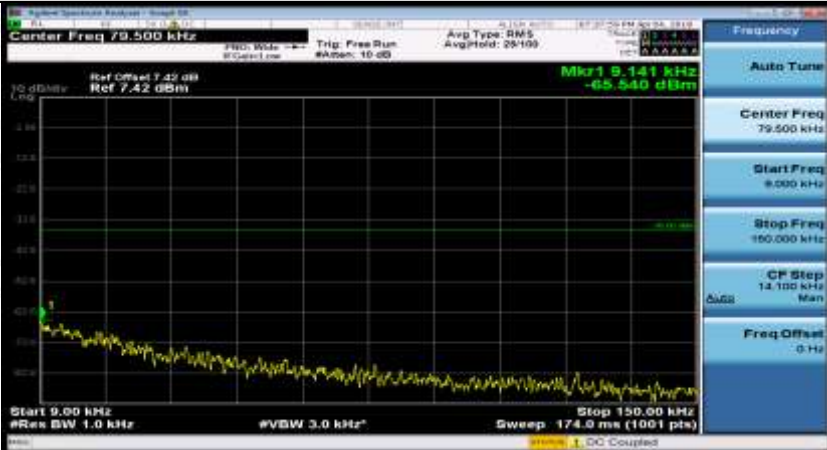
Co-existence	
Co-existence	
Co-existence	

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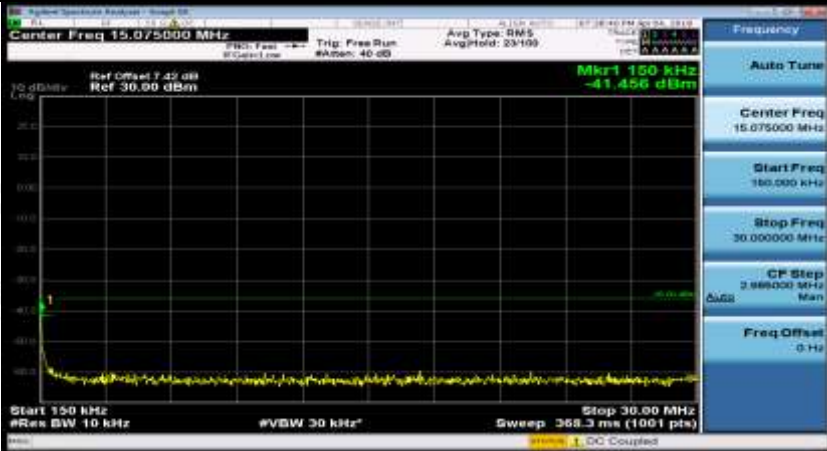
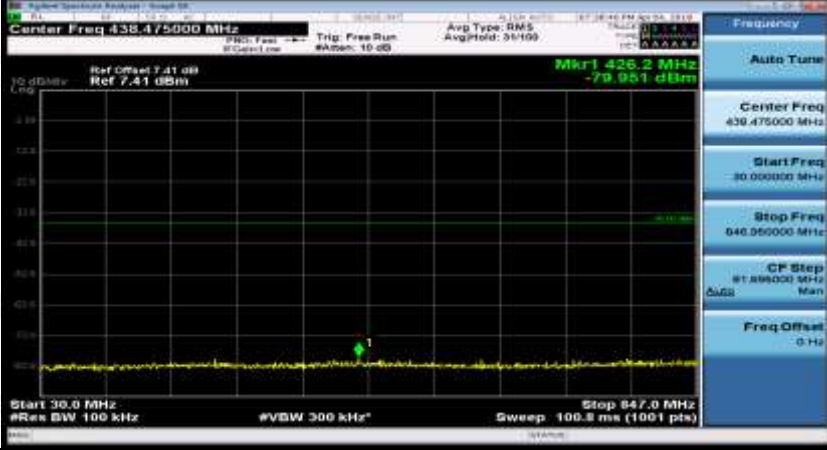
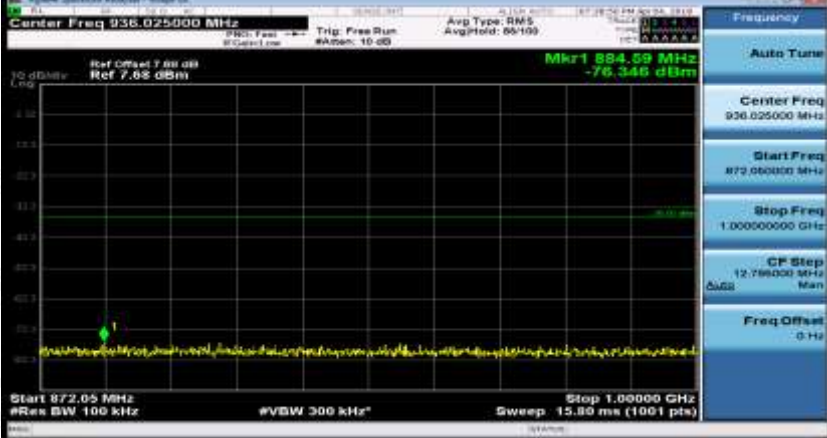
Co-existence	
Co-existence	
Co-existence	

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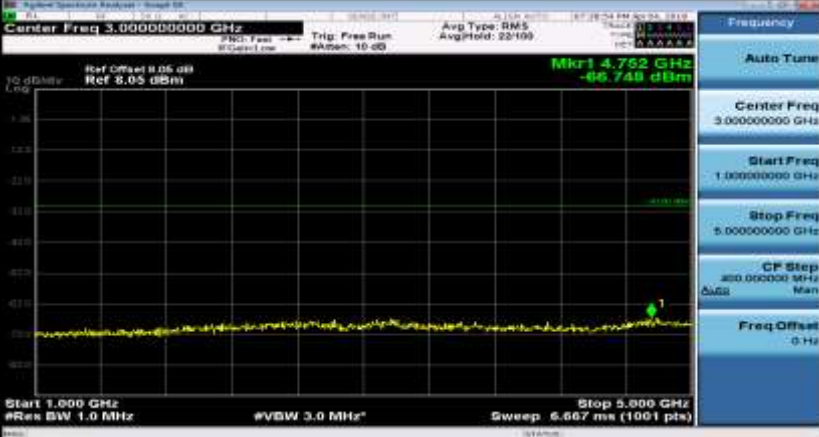

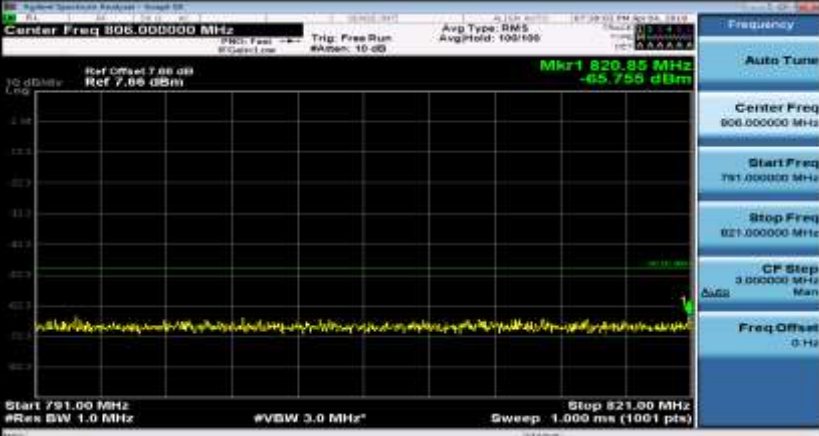
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Lowest (5 MHz)_QPSK_HCH_FullIRB#0	
General	

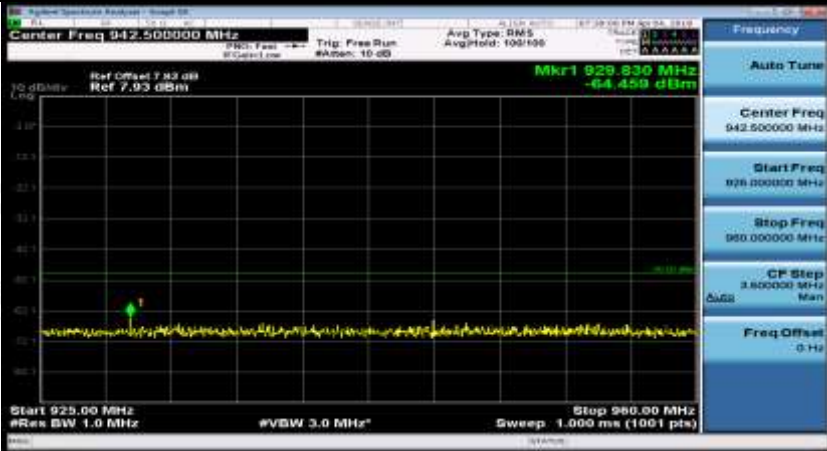
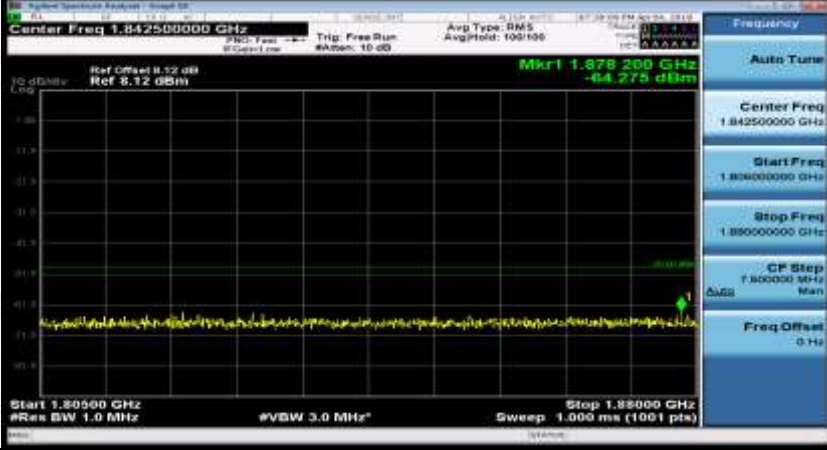
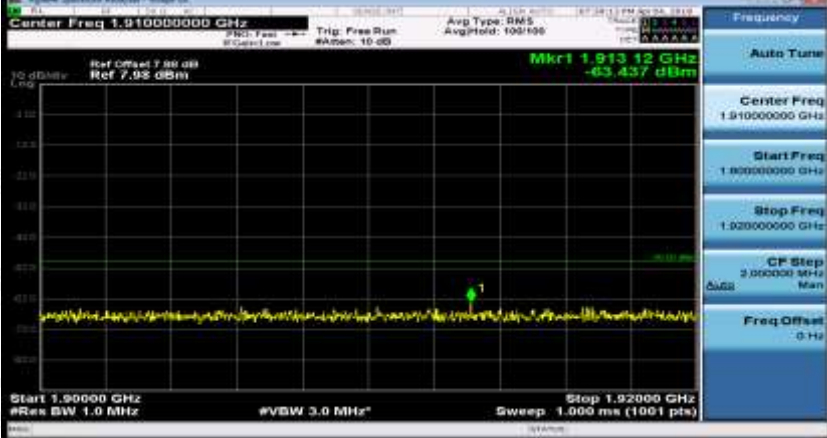
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General	
General	
General	

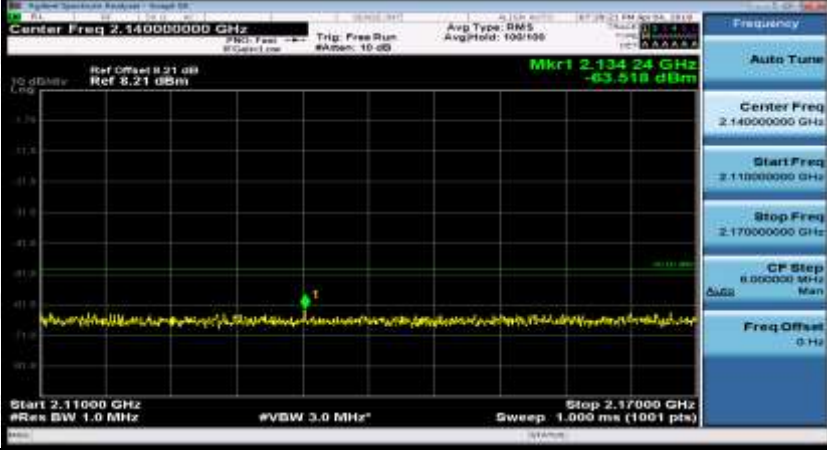
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General			
General			
Co-existence			

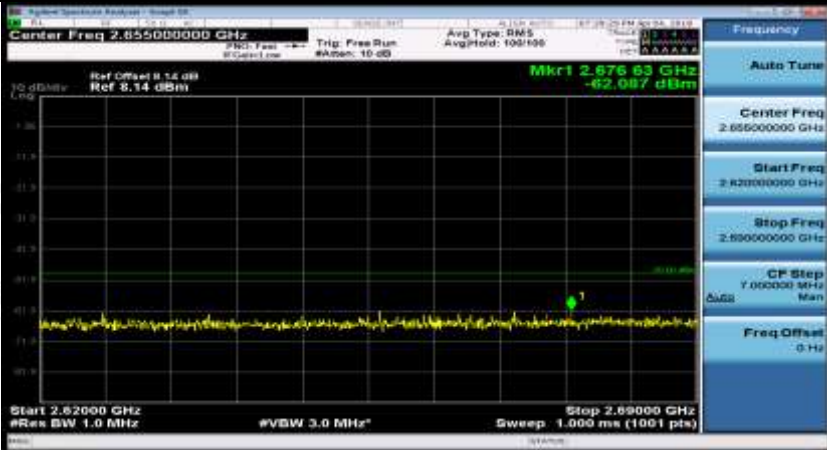
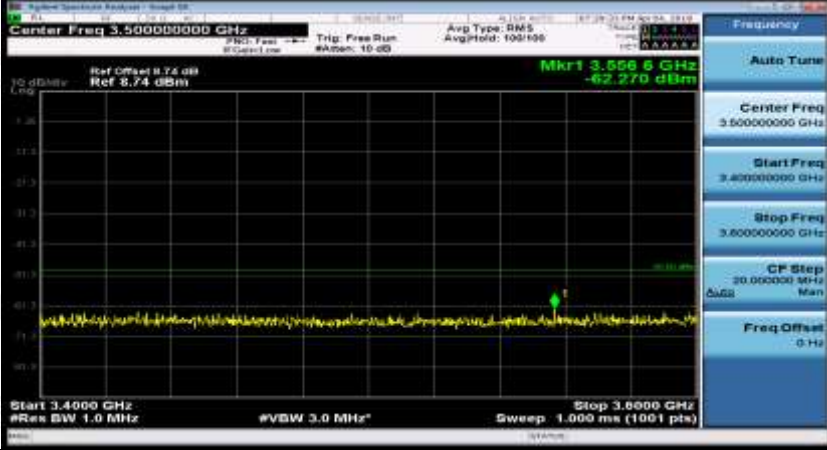
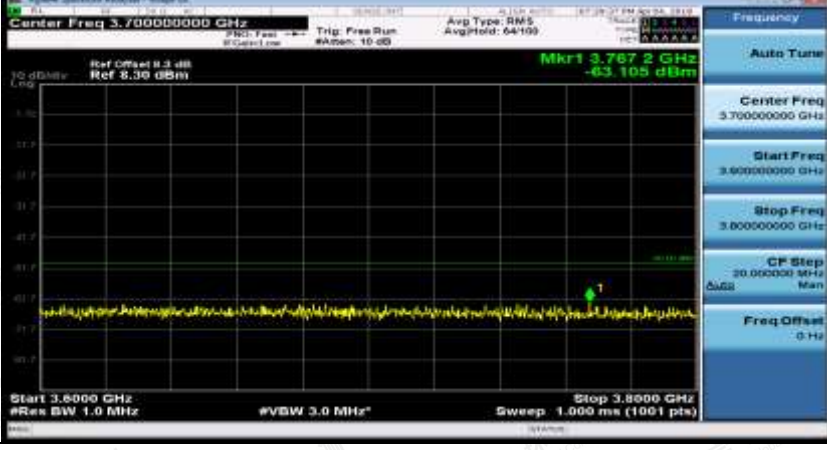
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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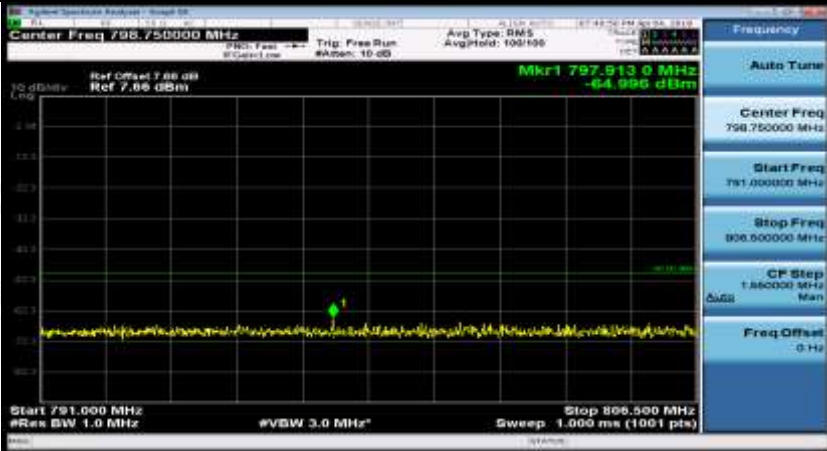
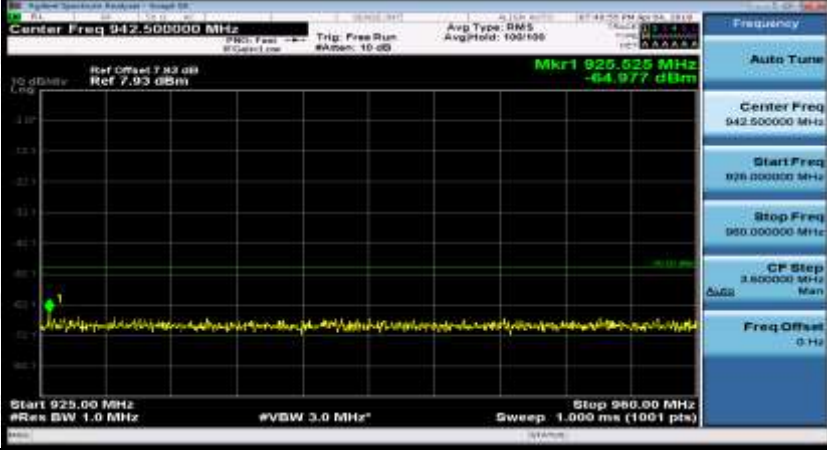
Channel Bandwidth= (20 MHz)

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_1RB#0	
General	
General	
General	

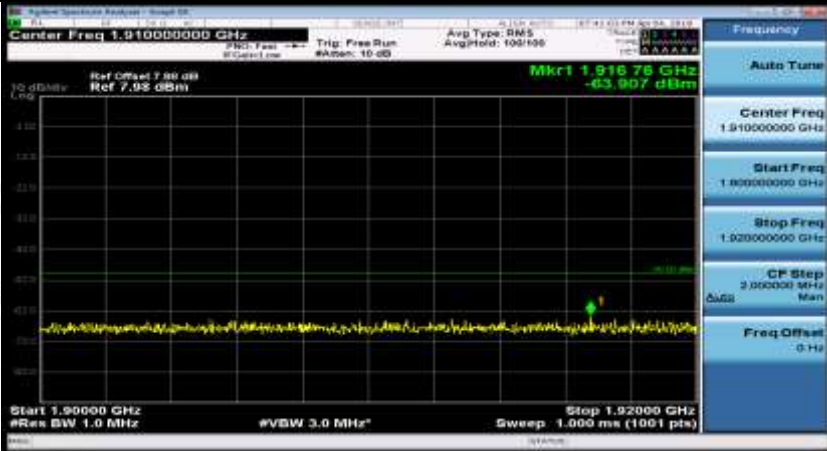
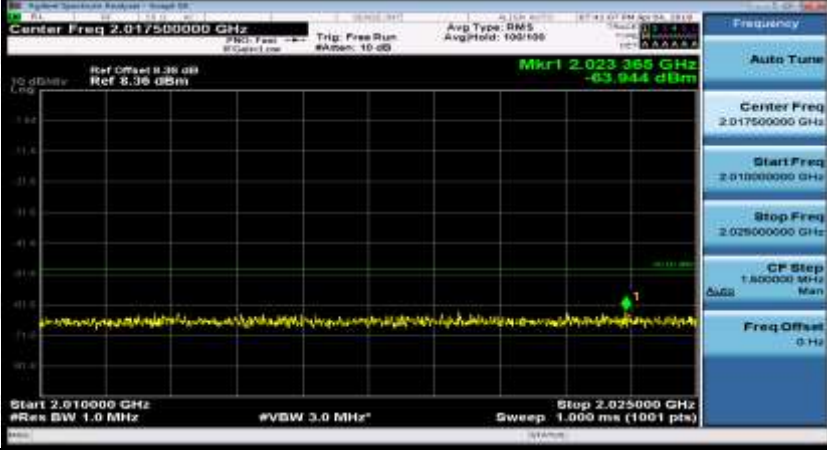
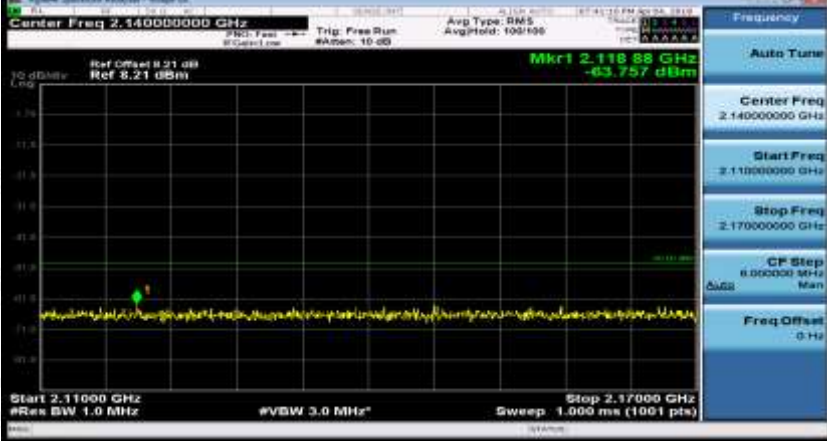
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General			
General			
General			

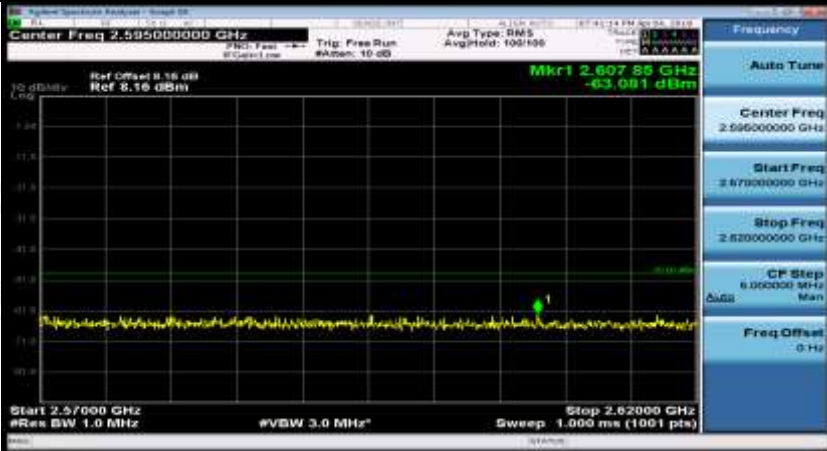

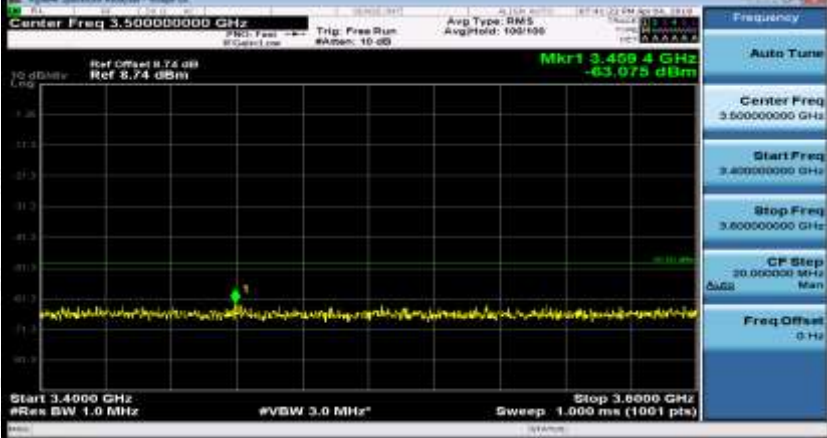
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Co-existence	
Co-existence	
Co-existence	

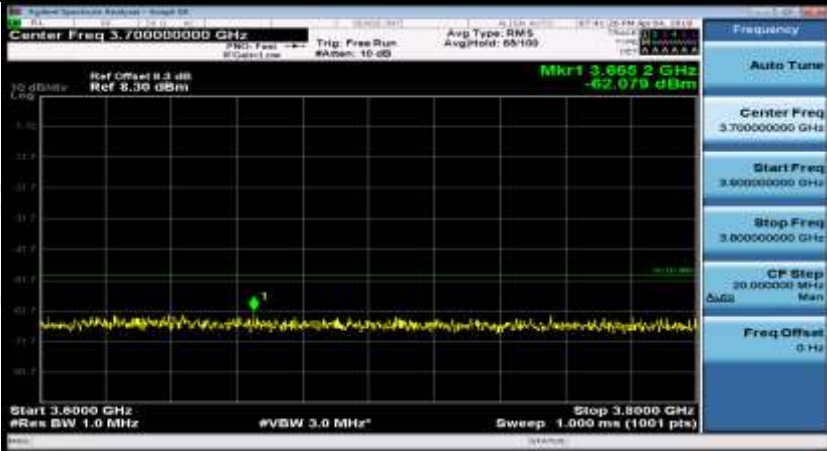
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.


Co-existence	
Co-existence	
Co-existence	

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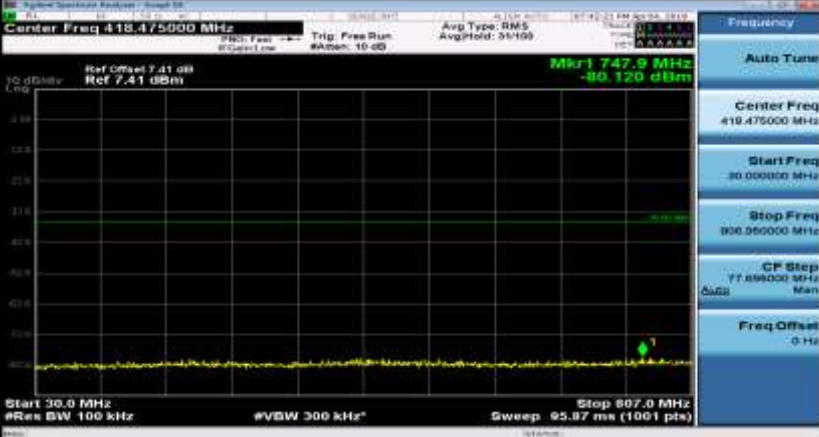
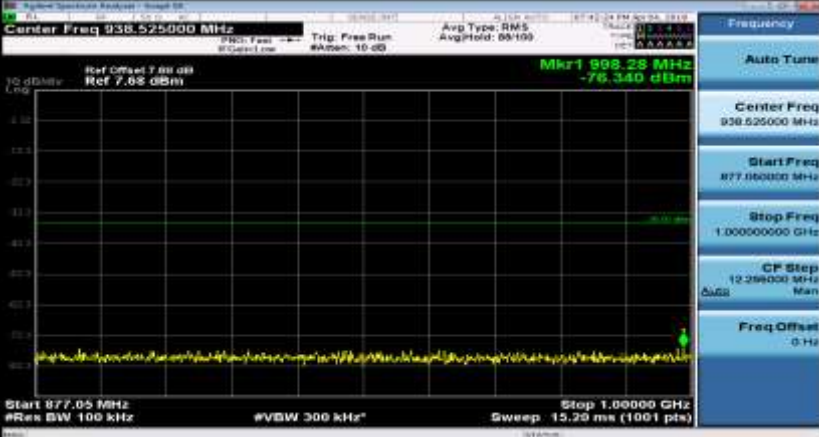

Co-existence	
Co-existence	
Co-existence	

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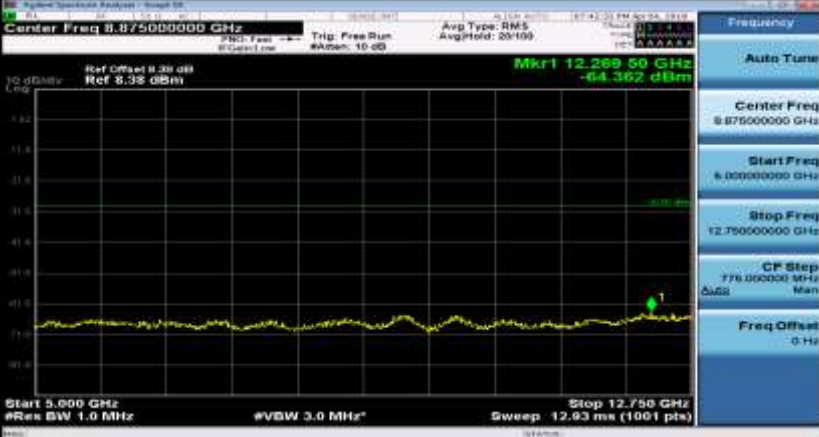
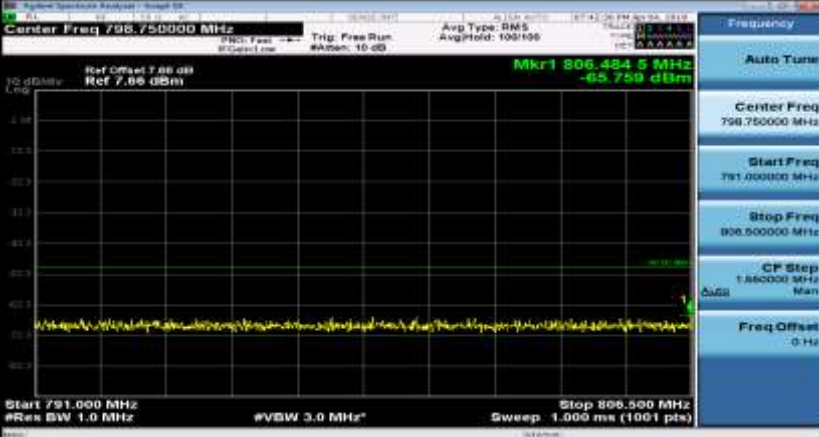
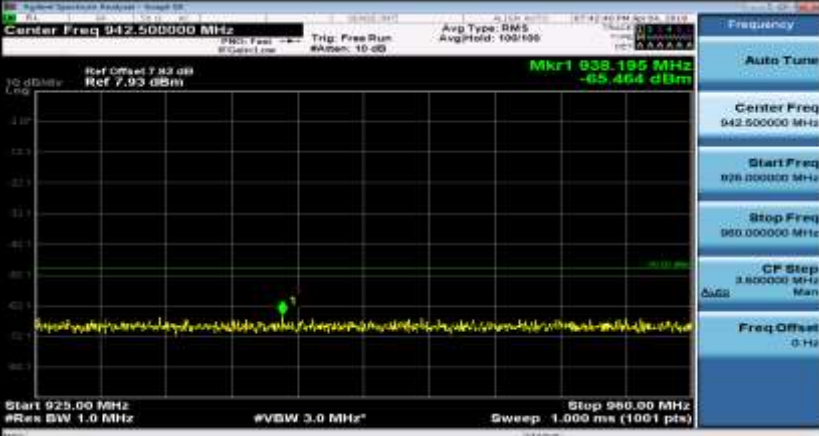
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20MHz)_QPSK_LCH_1RB#max	
General	
General	

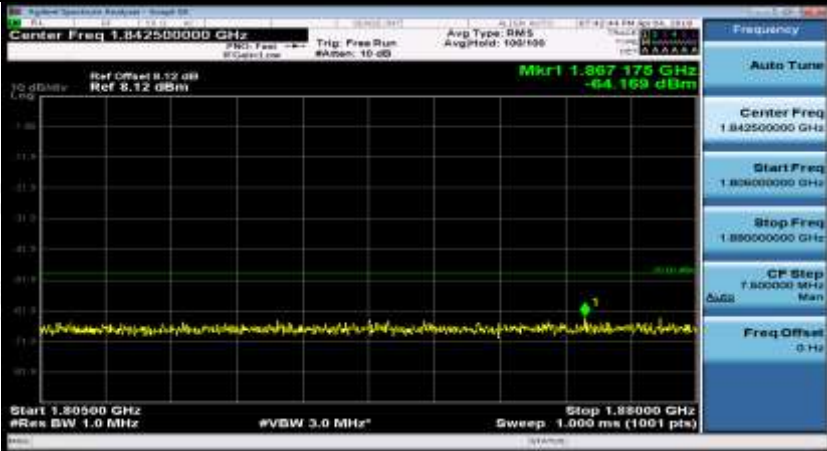
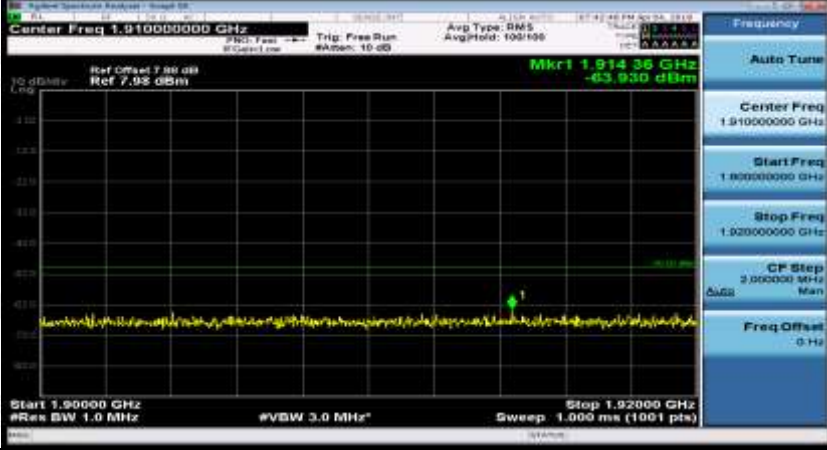
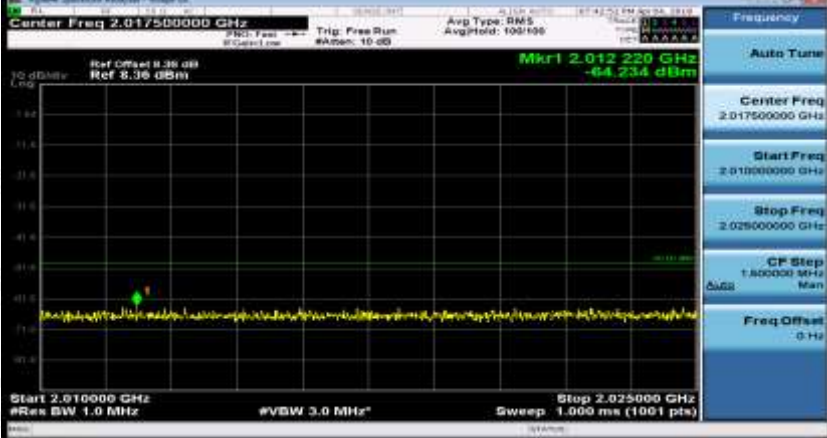
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General			
General			
General			

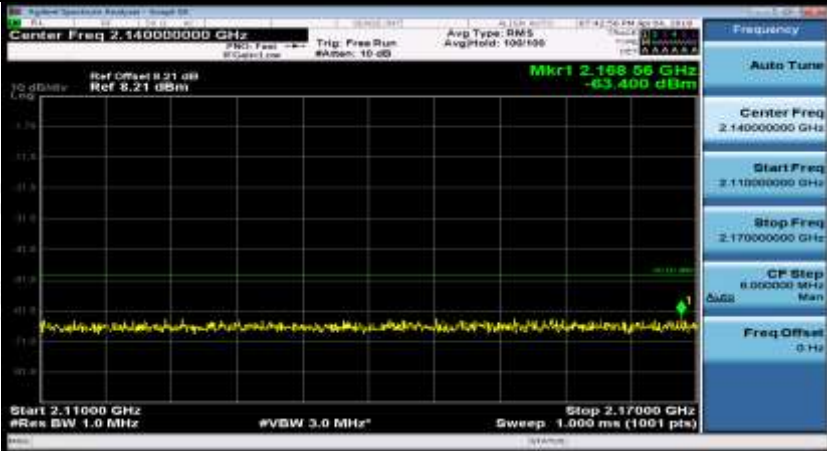
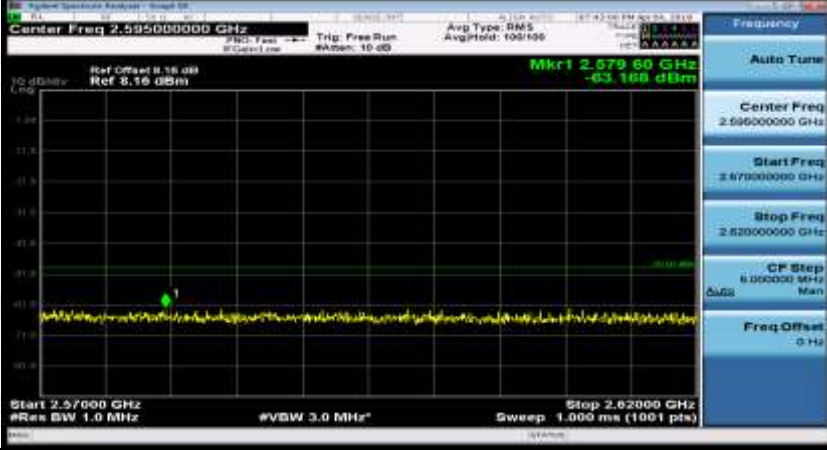

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General			
Co-existence			
Co-existence			

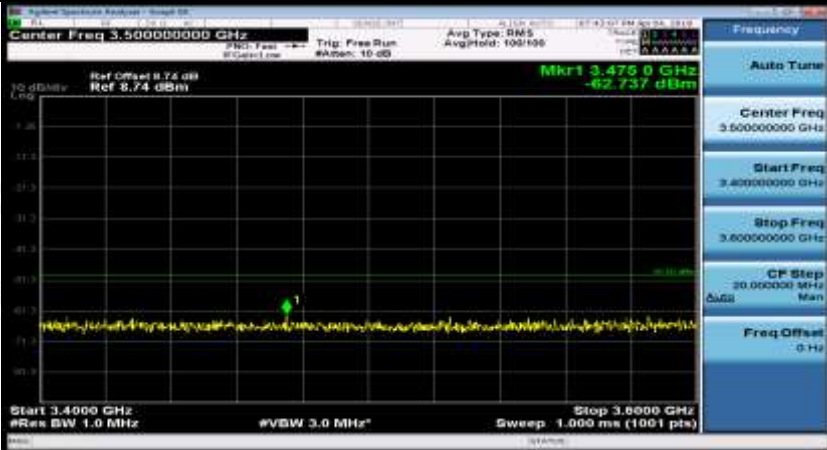
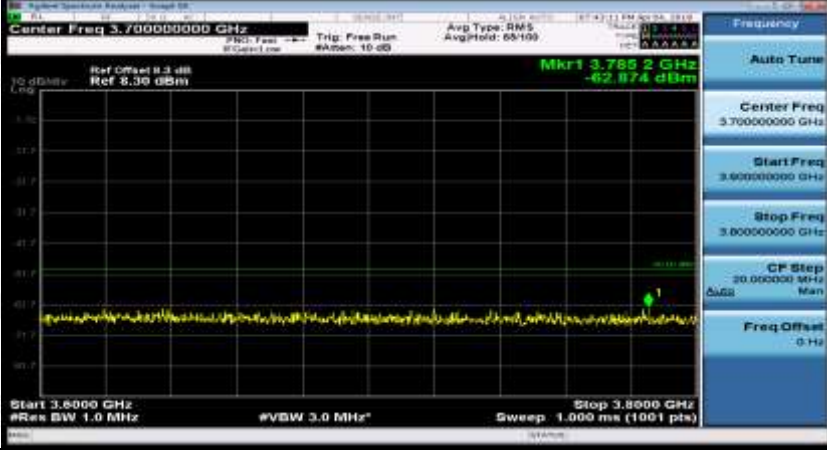
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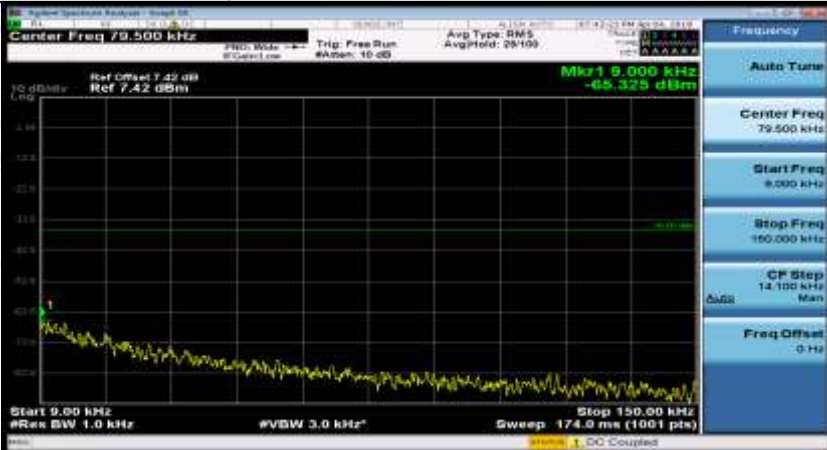
Co-existence	
Co-existence	
Co-existence	

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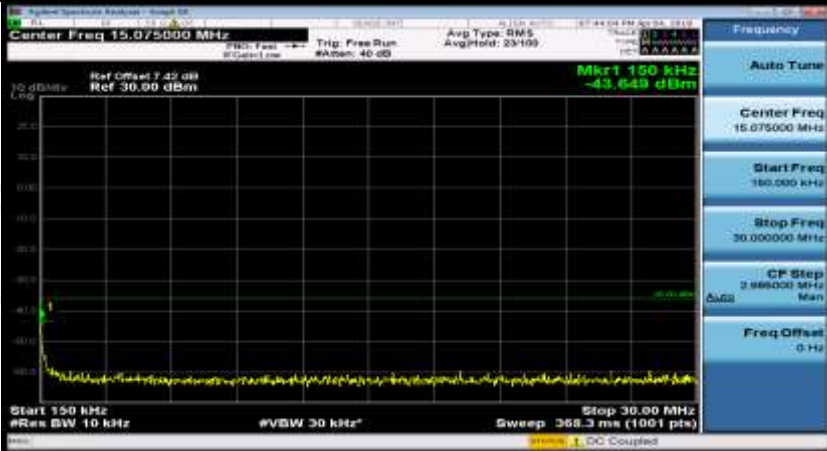
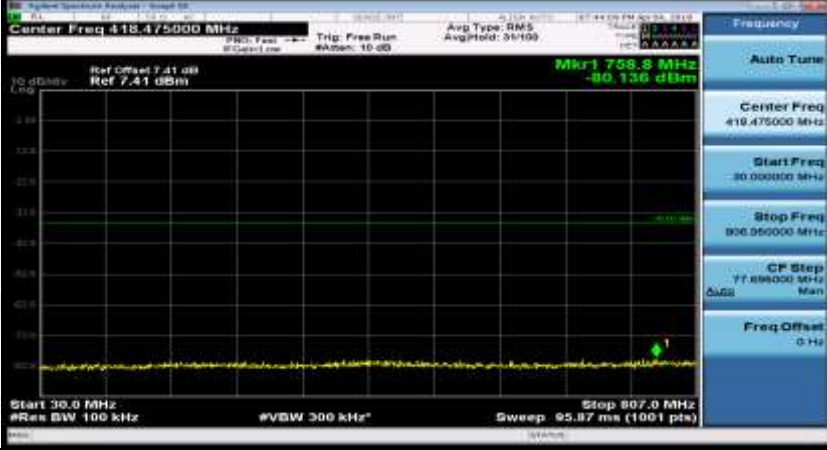
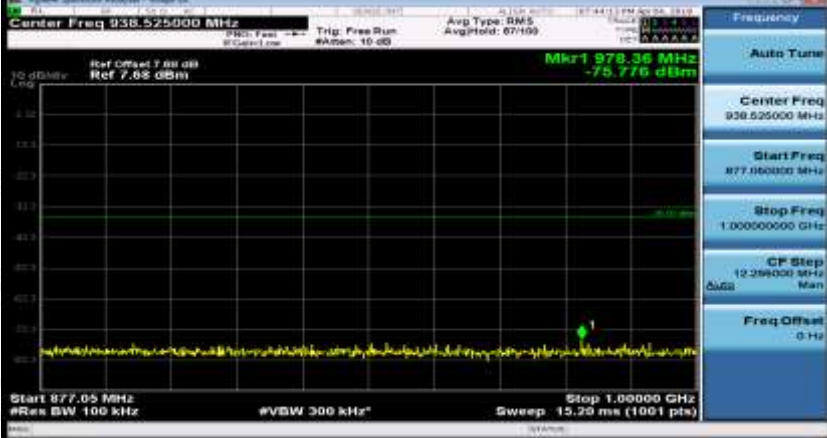
Co-existence	
Co-existence	
Co-existence	

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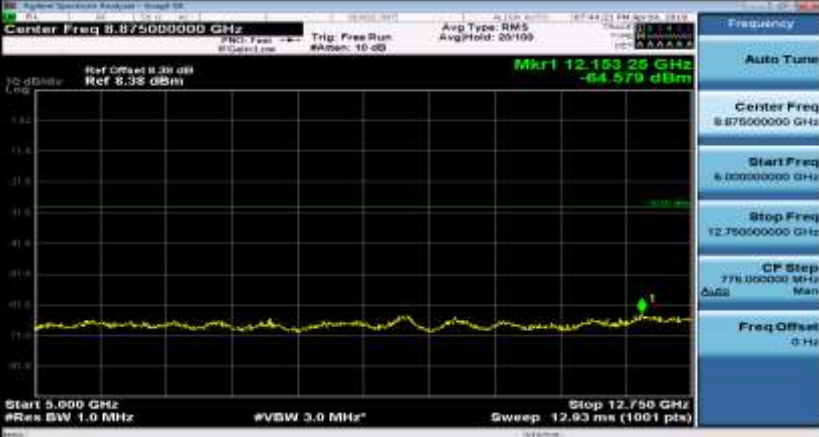
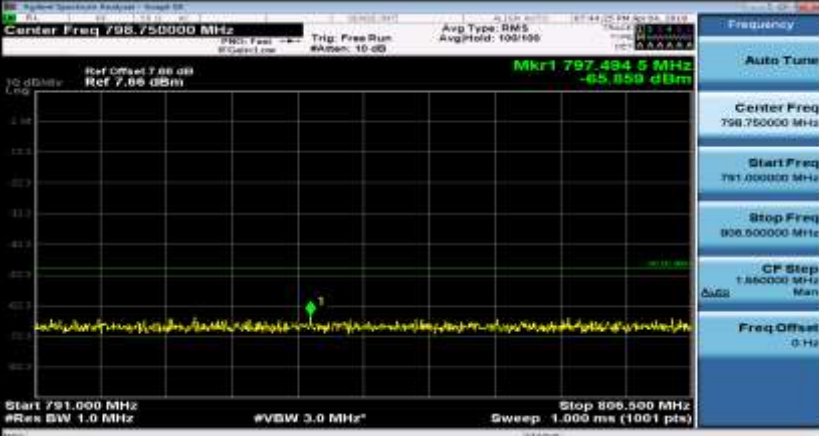
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_LCH_FullRB#0	
General	

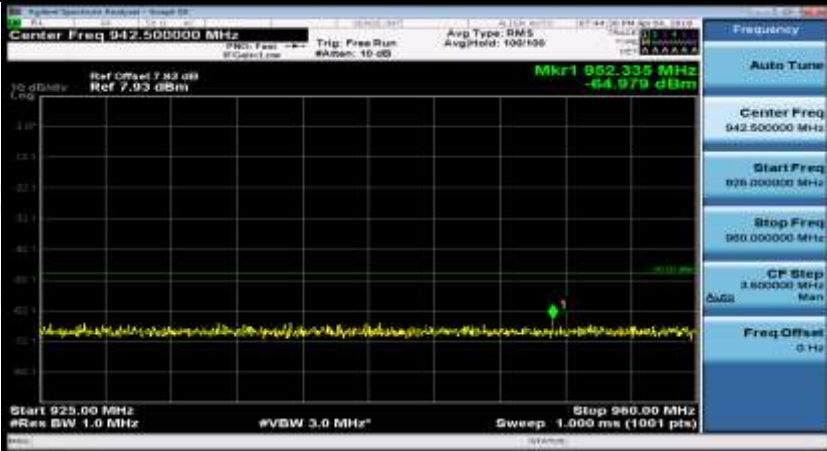
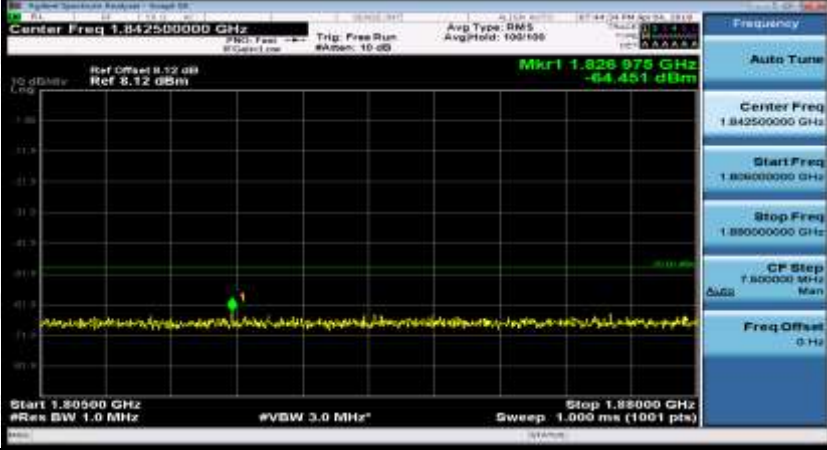
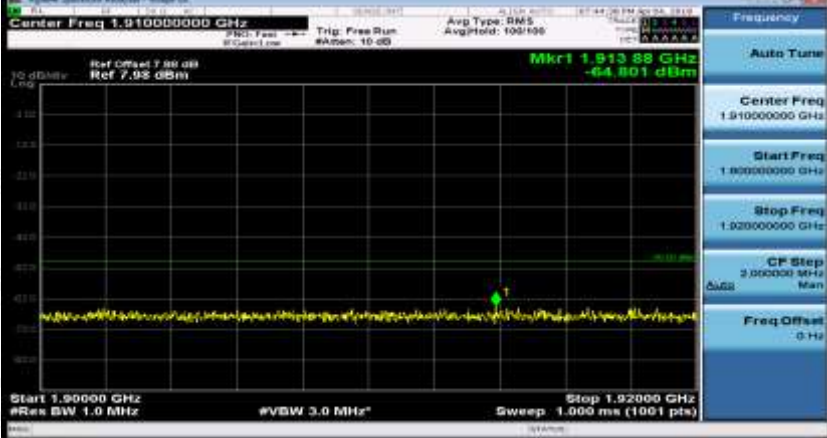
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General	
General	
General	

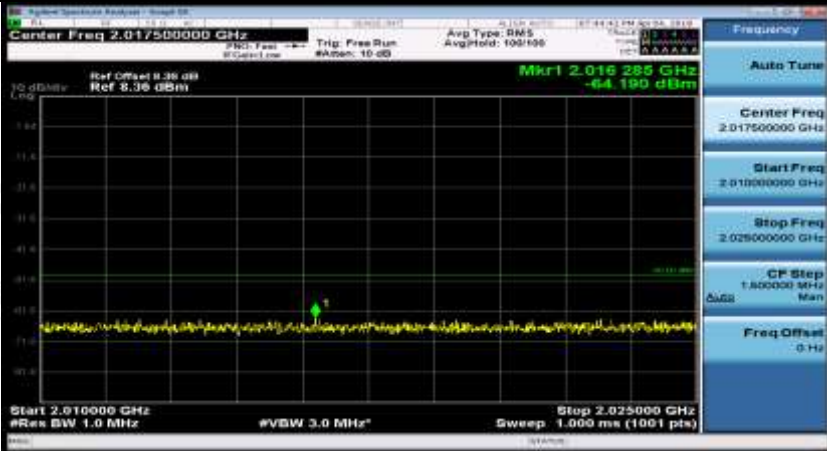
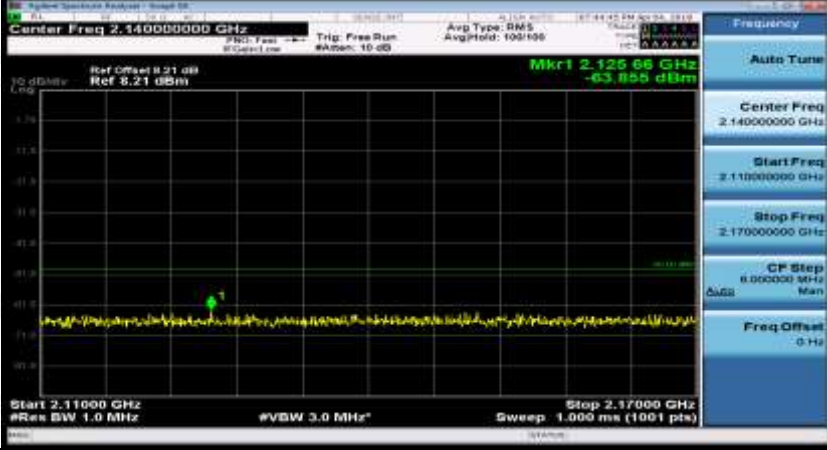
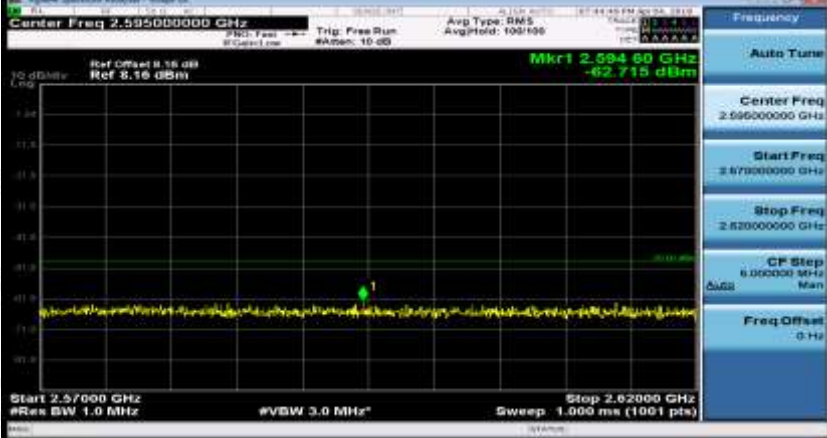
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General			
General			
Co-existence			

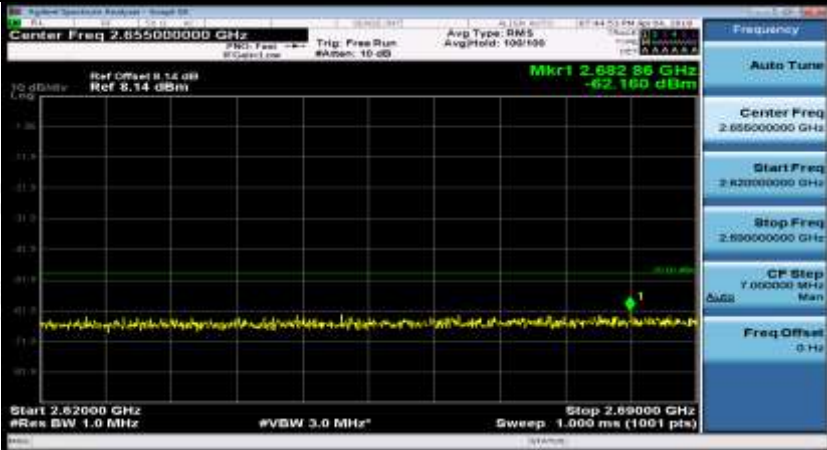
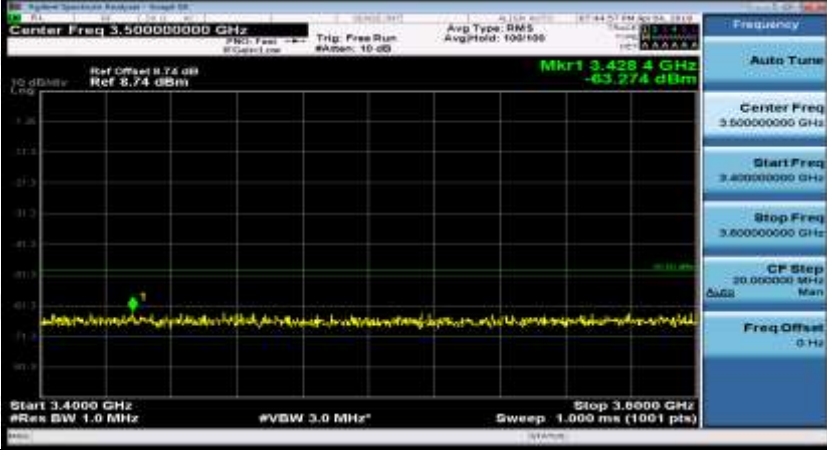
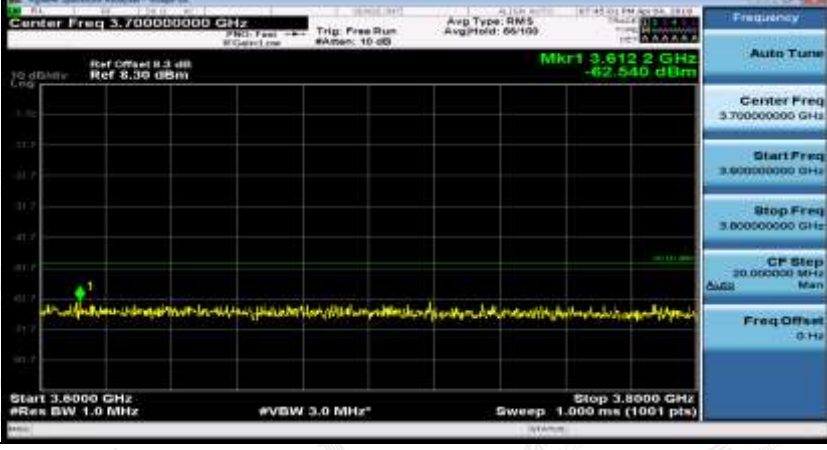
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Co-existence	
Co-existence	
Co-existence	

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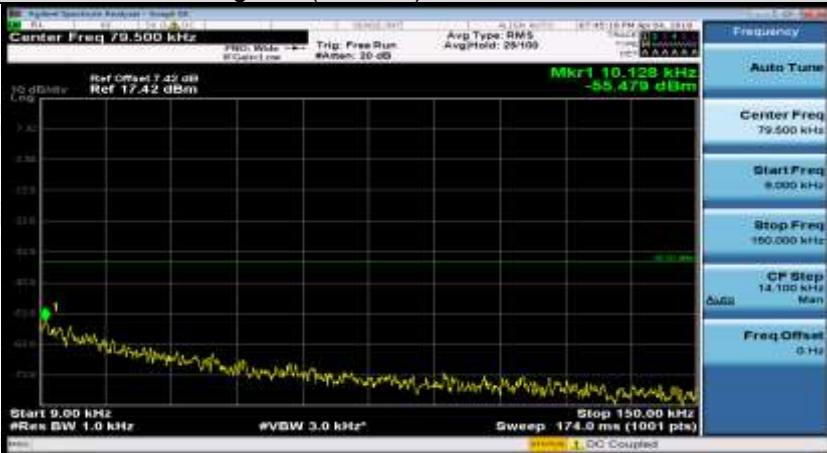
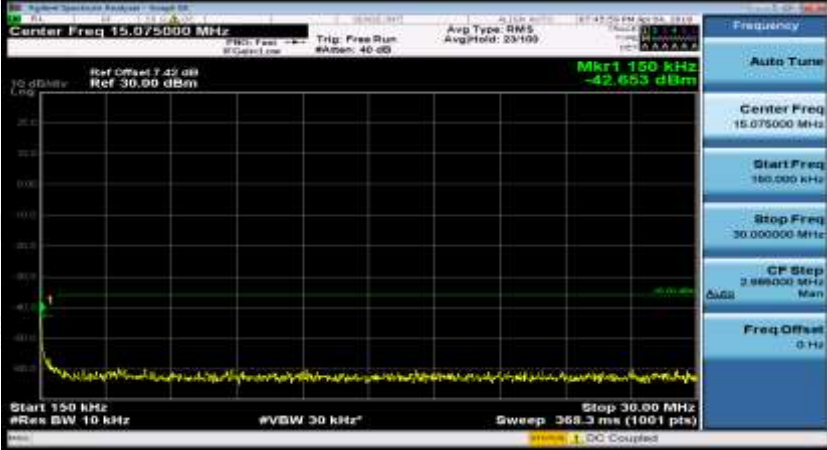
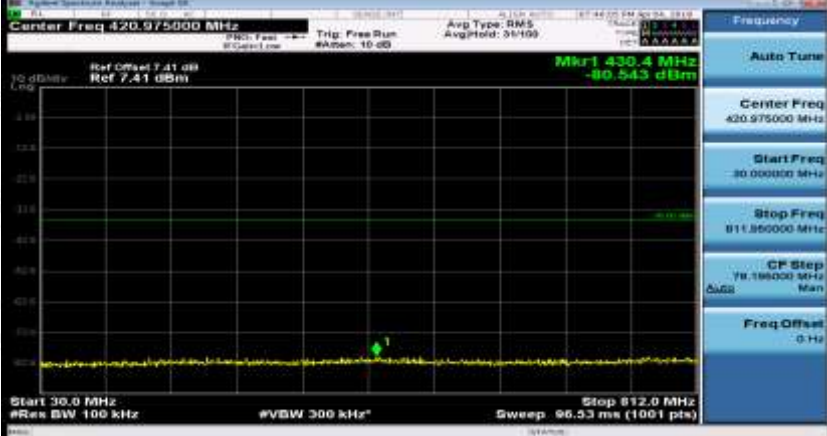
Co-existence	
Co-existence	
Co-existence	

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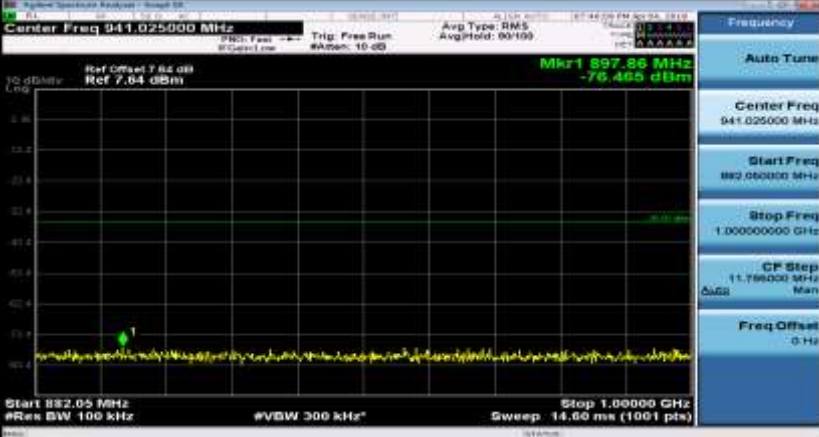


Co-existence	
Co-existence	
Co-existence	
Additional	NA

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Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#0

General	
General	
General	

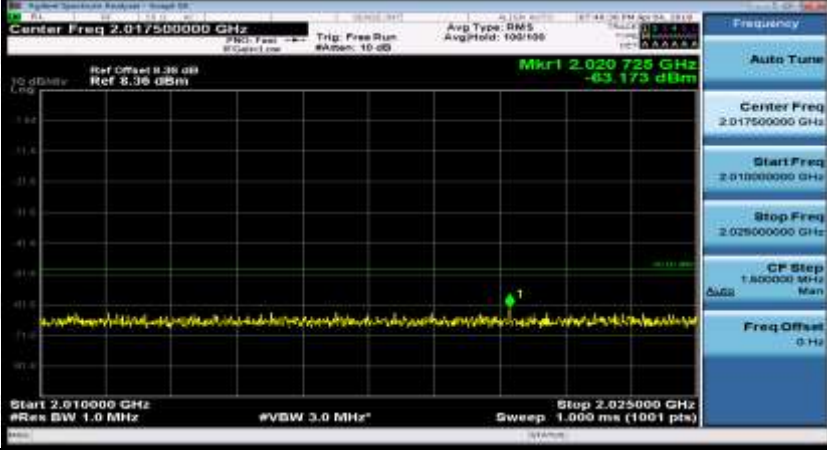
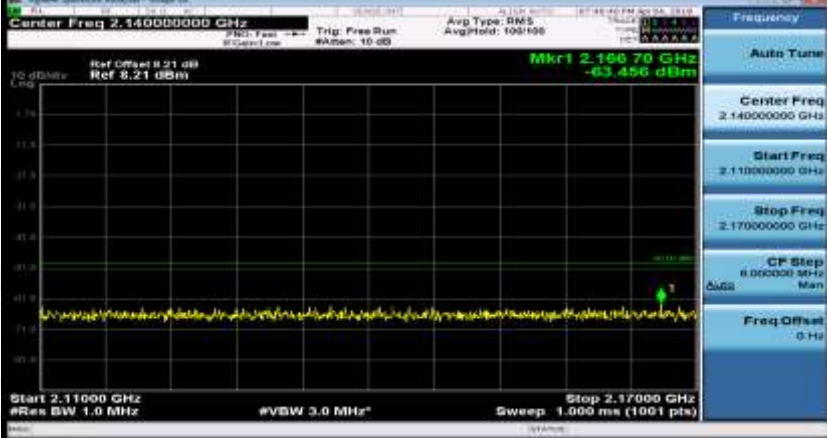
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General			
General			
General			

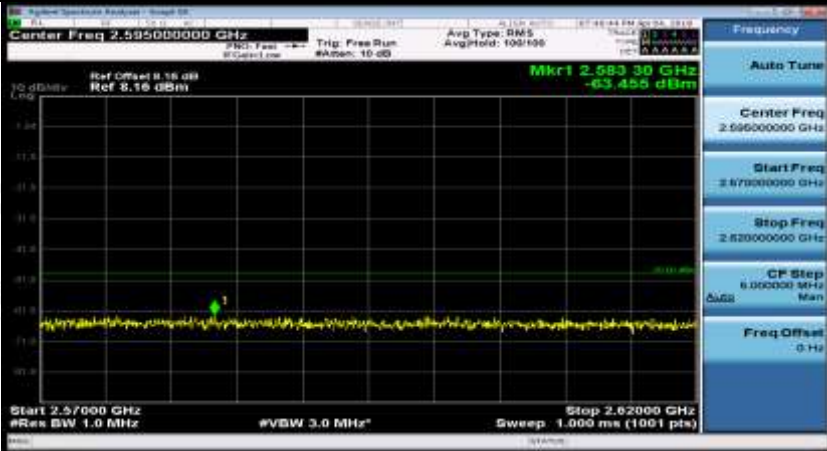
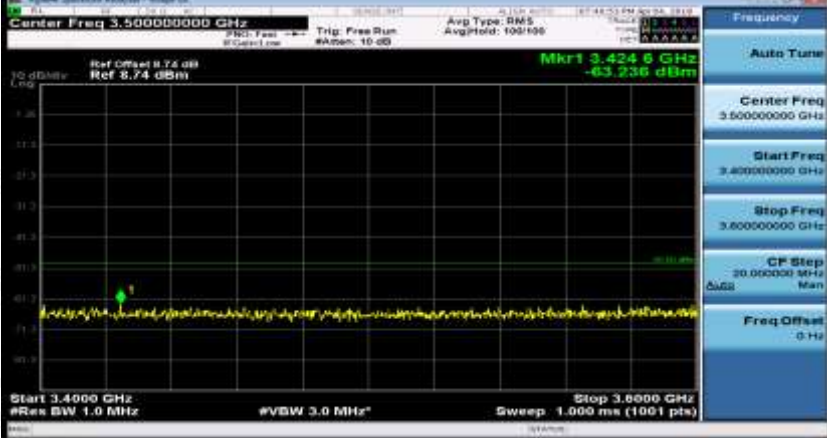
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

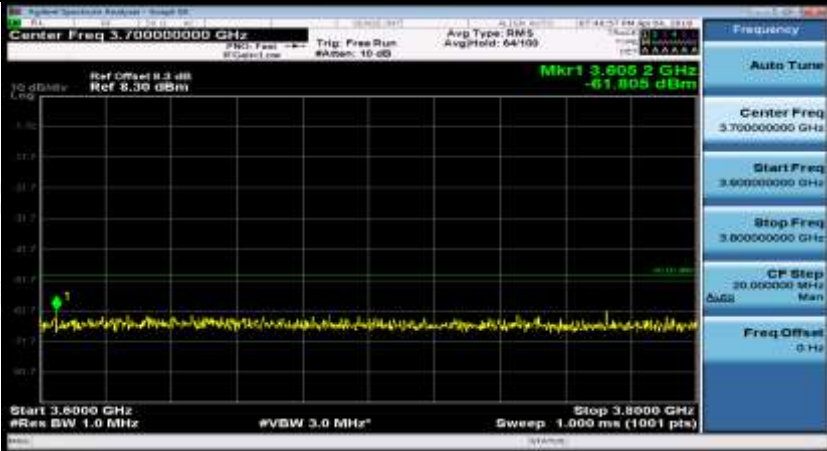
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

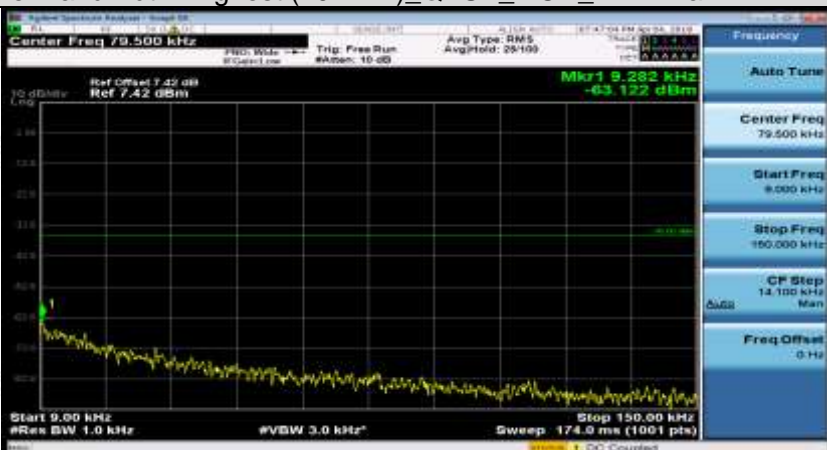
Co-existence	
Co-existence	
Co-existence	

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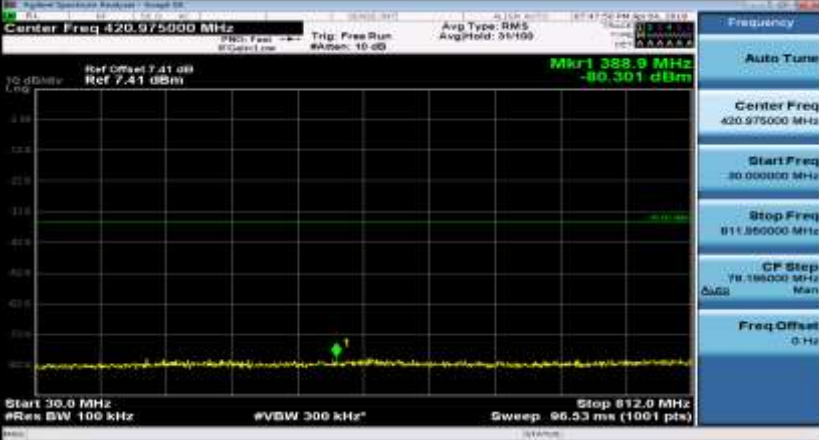
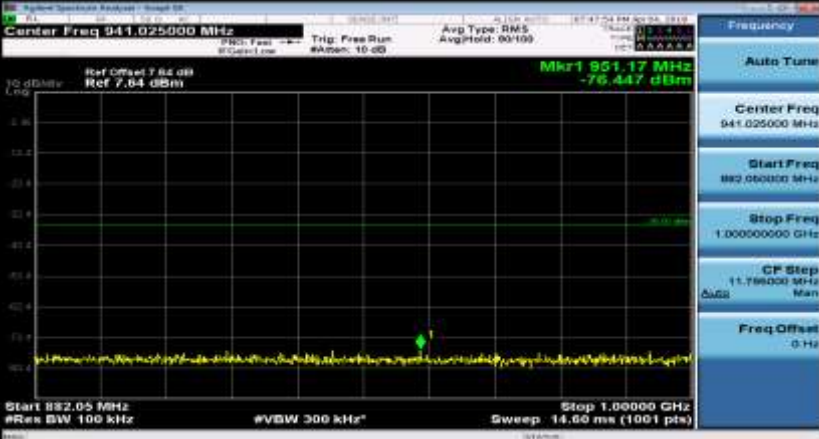
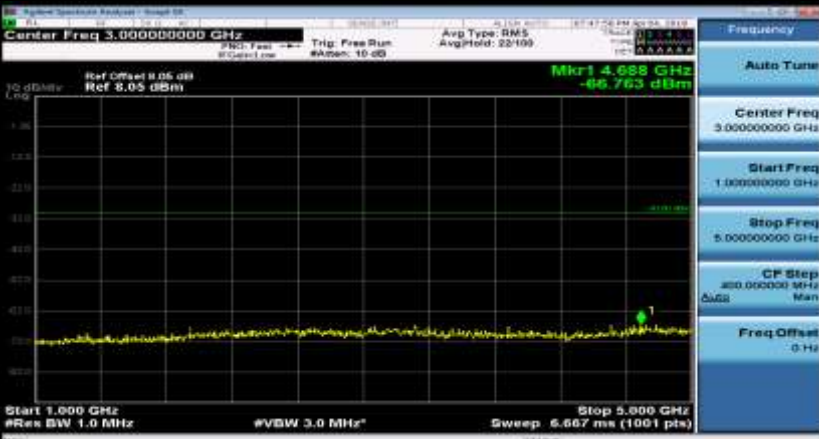
Co-existence	
Co-existence	
Co-existence	

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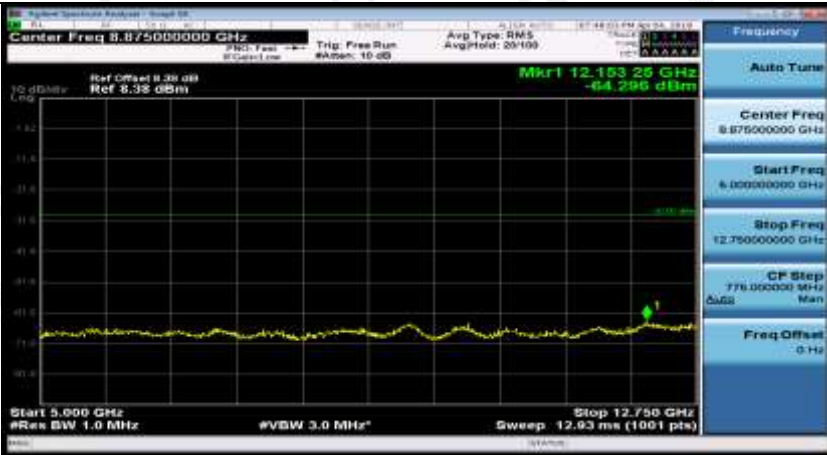
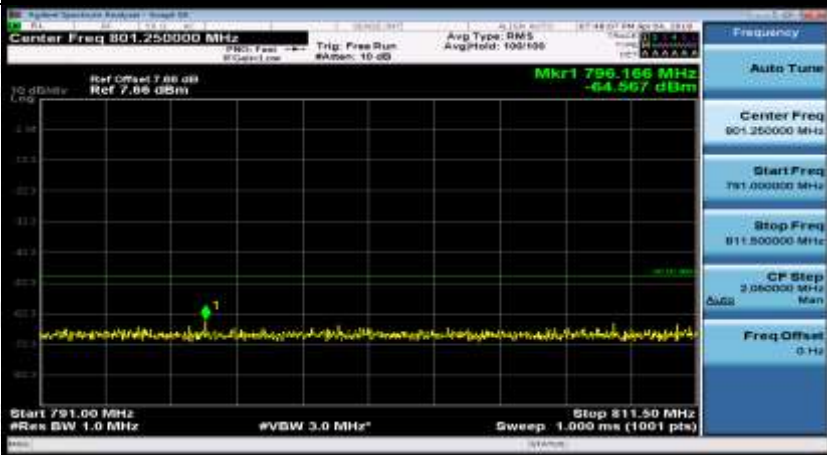
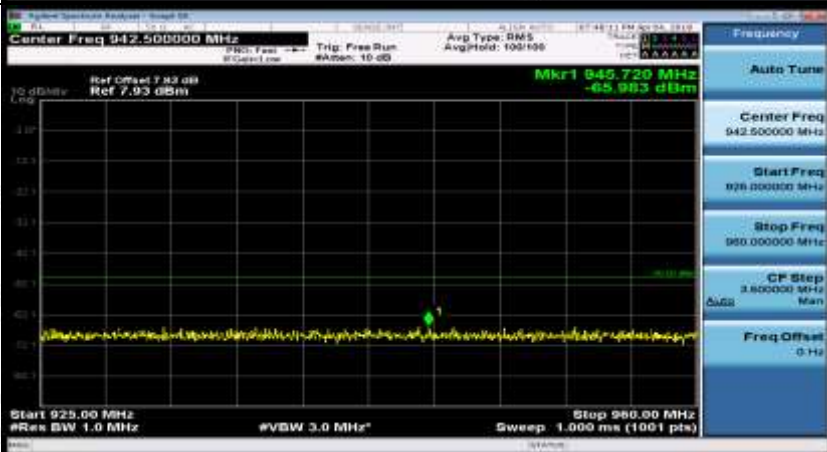
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_1RB#max	
General	
General	

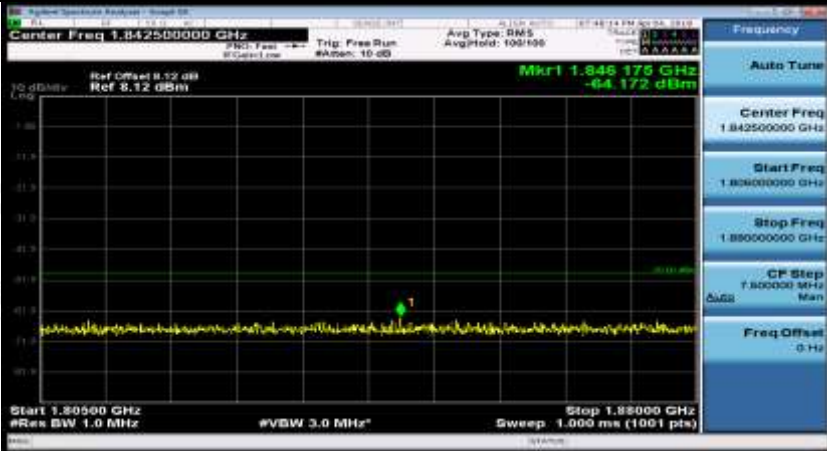
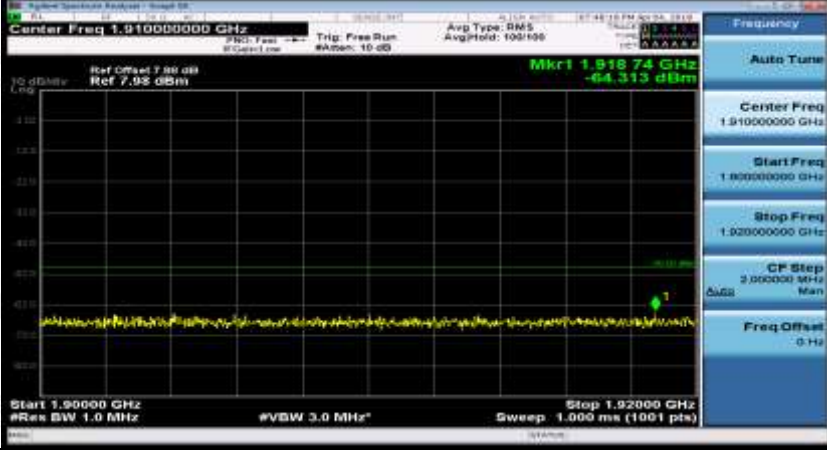
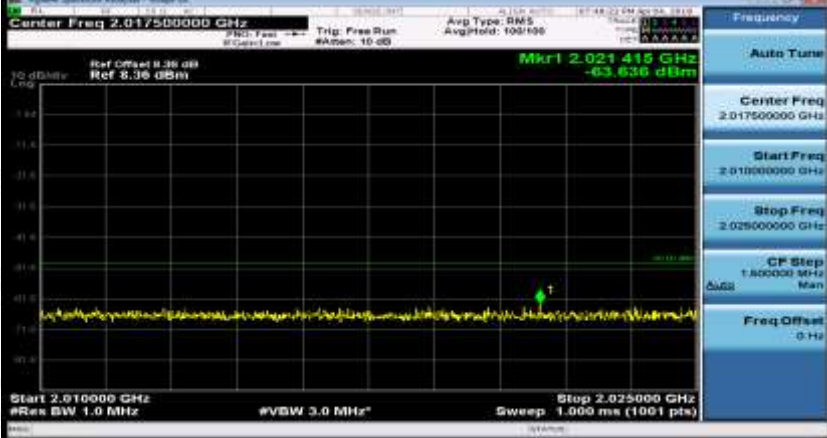
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General			
General			
General			

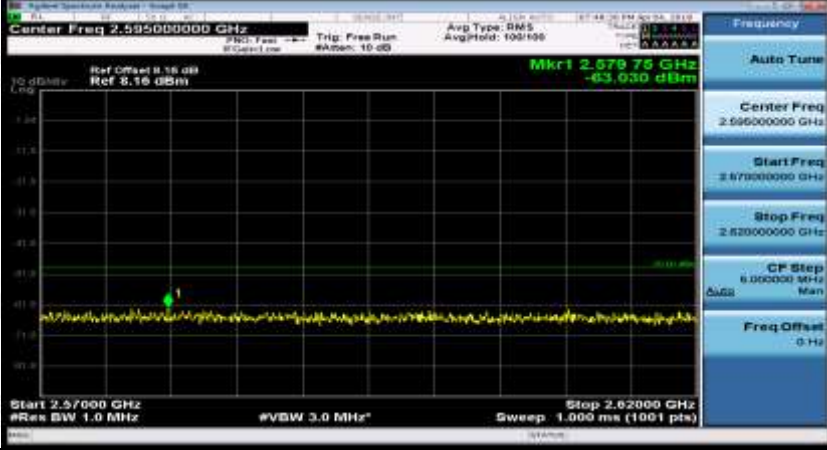
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General	
Co-existence	
Co-existence	

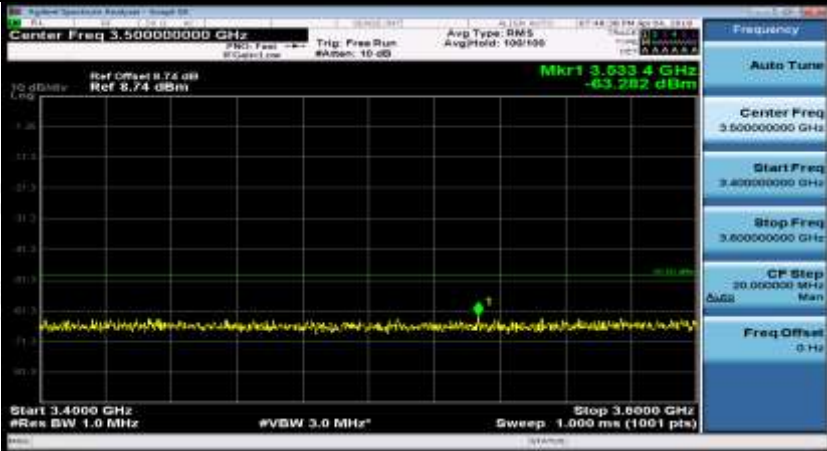
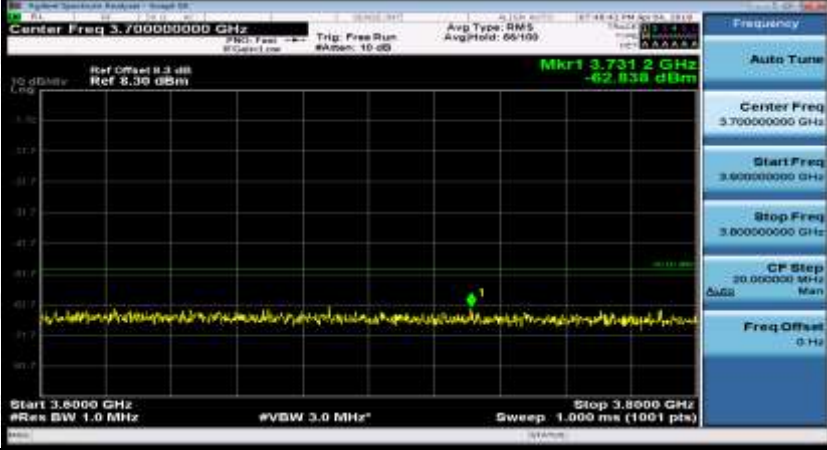
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

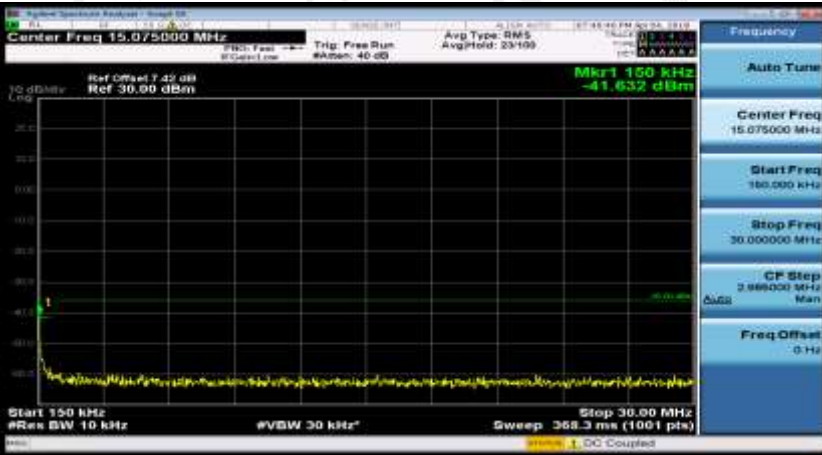
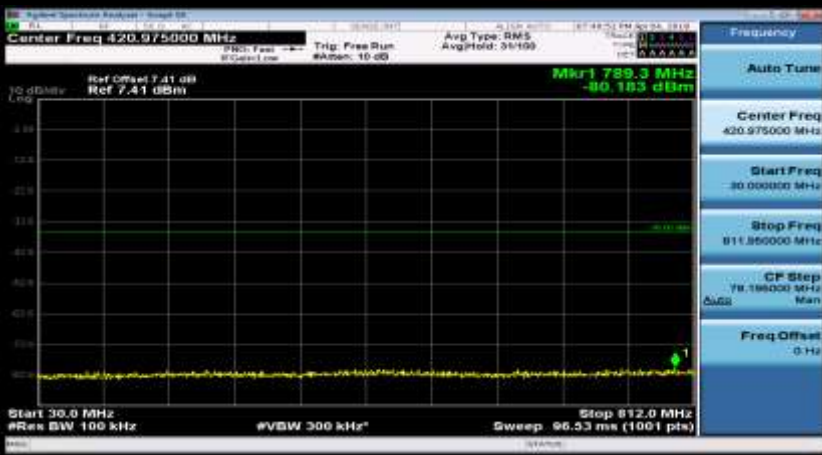
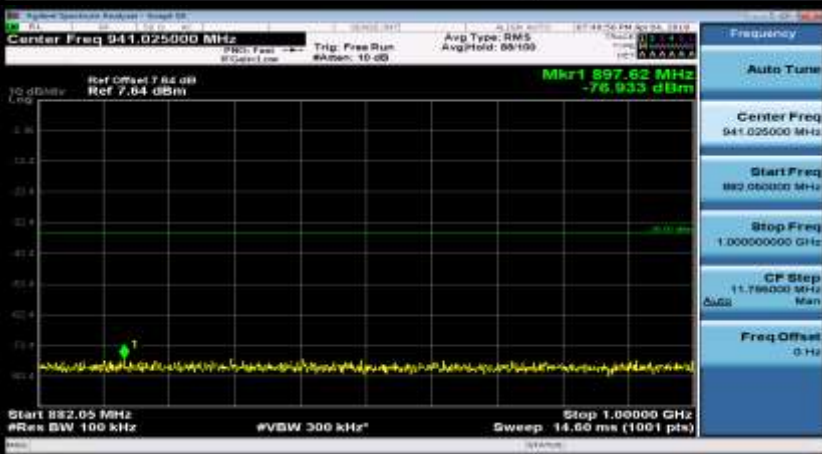
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Co-existence	
Co-existence	
Additional	NA

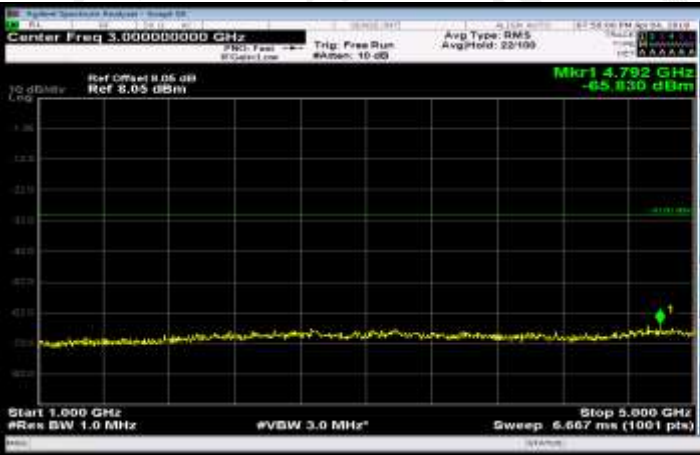
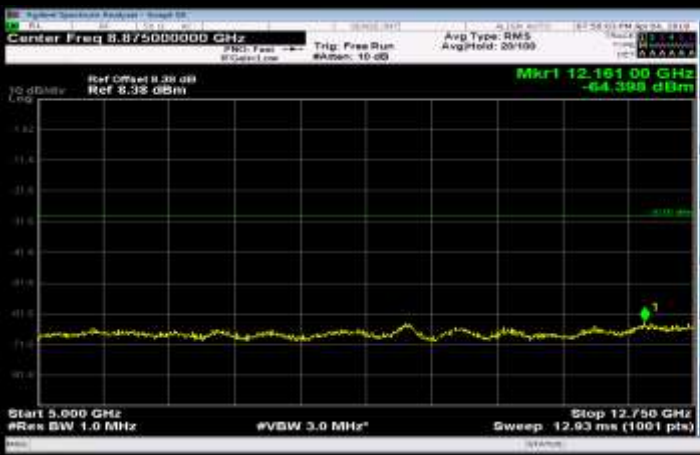
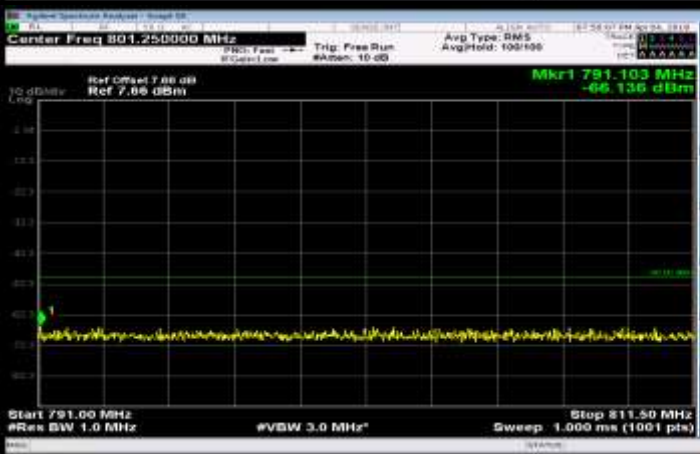
Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_FullIRB#0

General	
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General		
General		
General		

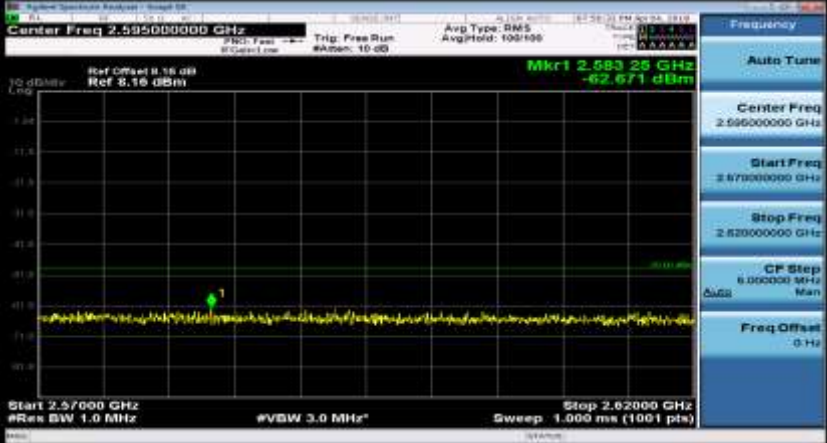
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General		
General		
Co-existence		

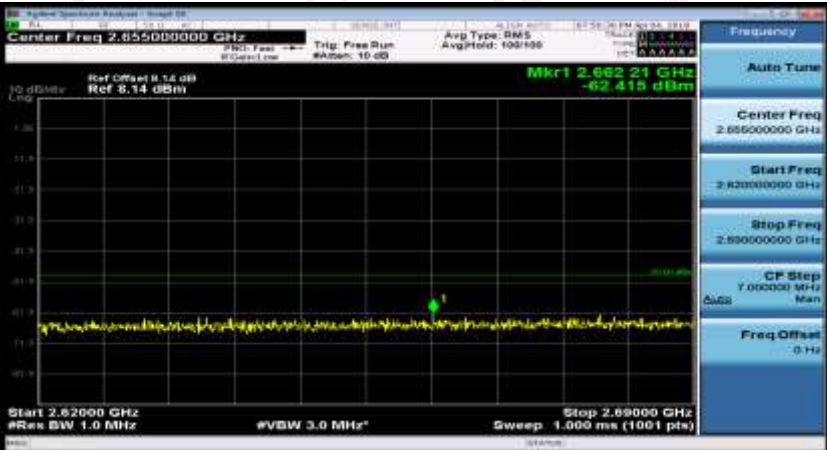
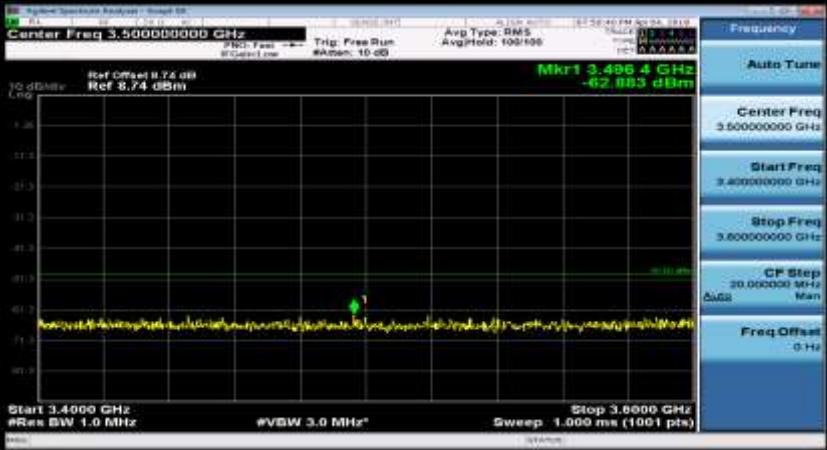
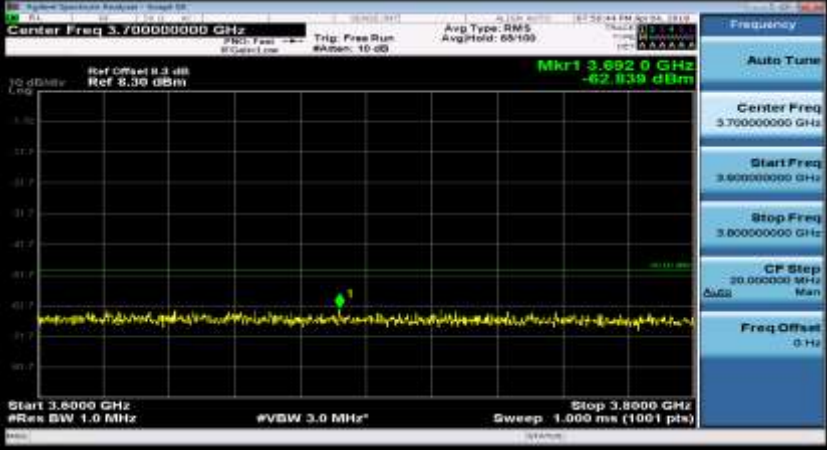
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Co-existence	
Co-existence	
Co-existence	

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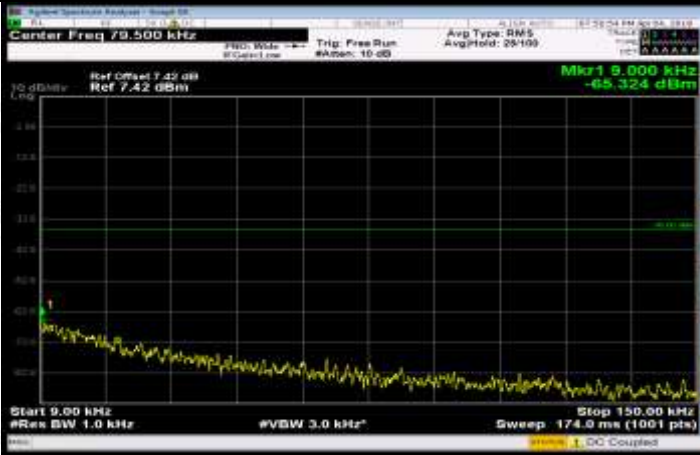
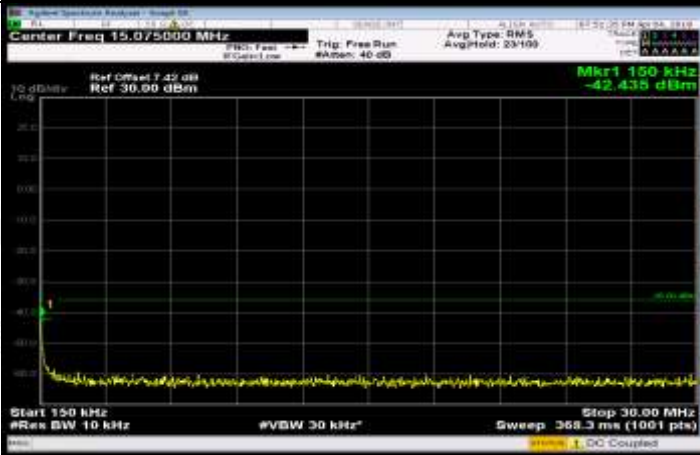
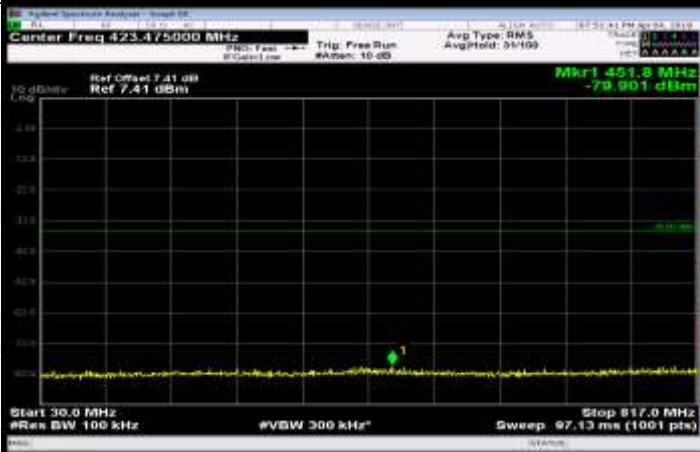
Co-existence	
Co-existence	
Co-existence	

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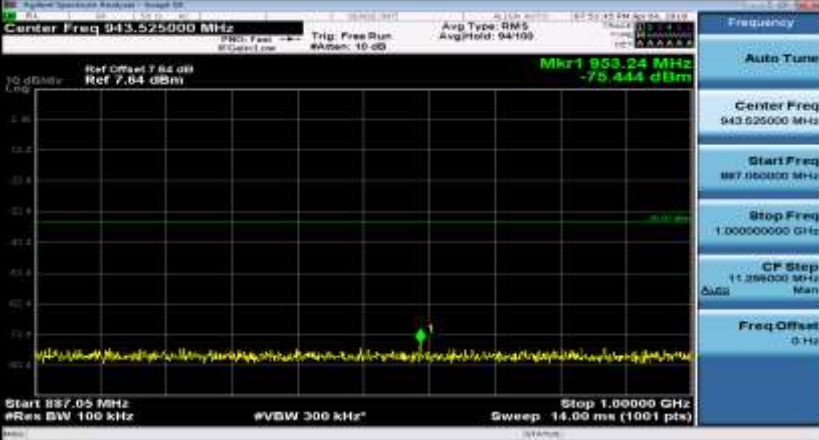
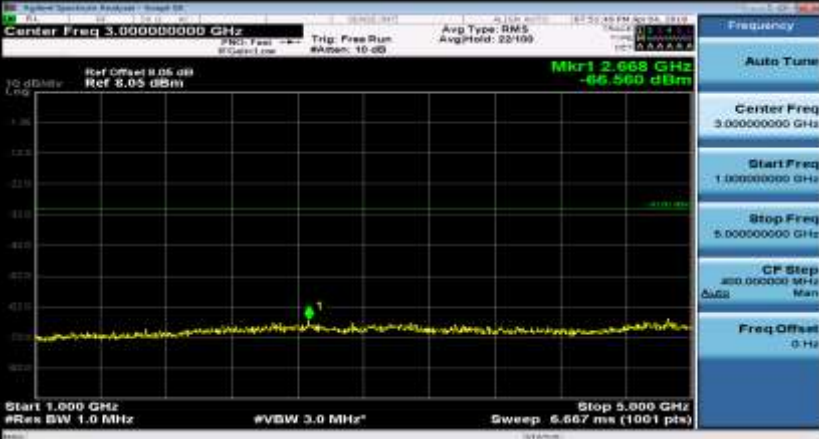

Co-existence	
Co-existence	
Co-existence	
Additional	NA

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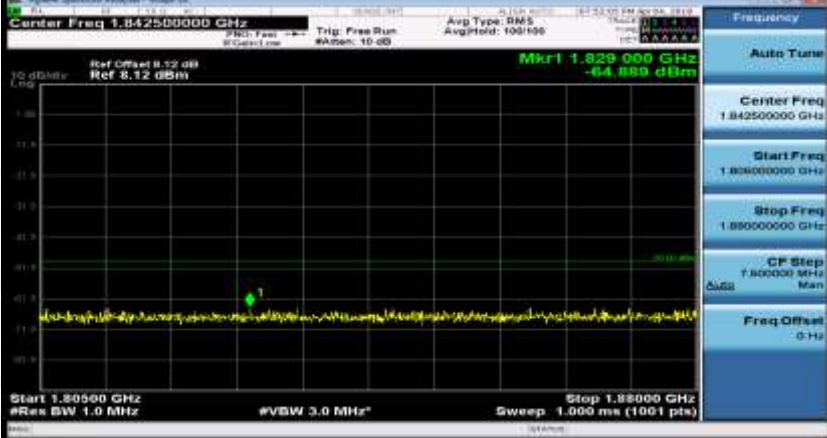
Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#0

General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 79.500 kHz</p> <p>Start Freq 9.000 kHz</p> <p>Stop Freq 150.000 kHz</p> <p>CF Step 14.100 kHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 15.075000 MHz</p> <p>Start Freq 150.000 kHz</p> <p>Stop Freq 30.000000 MHz</p> <p>CF Step 3.999000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>
General		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 423.475000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 616.950000 MHz</p> <p>CF Step 79.999000 MHz</p> <p>Man</p> <p>Freq Offset 0 Hz</p>

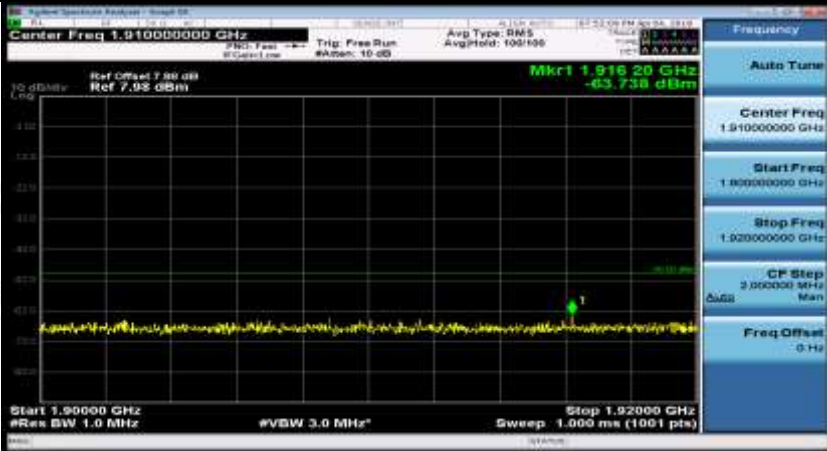
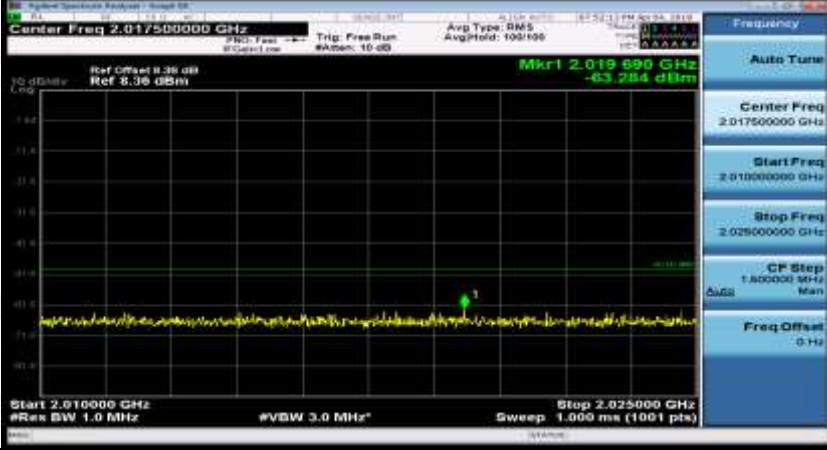
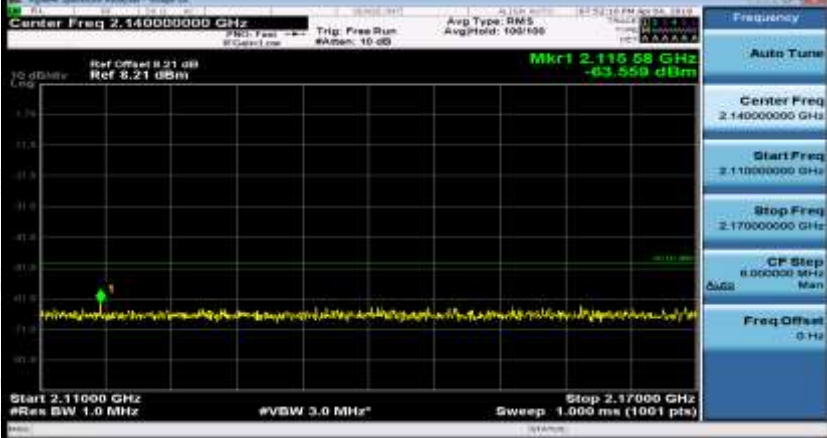
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General			
General			
General			

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Co-existence	
Co-existence	
Co-existence	

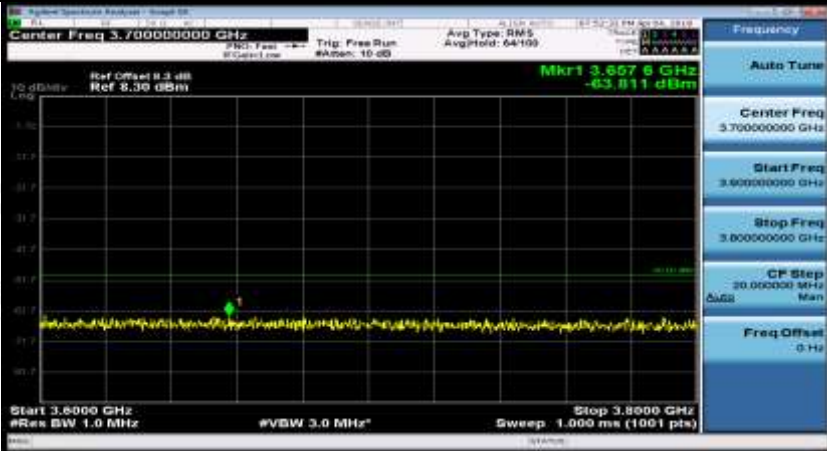
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Co-existence	
Co-existence	
Co-existence	

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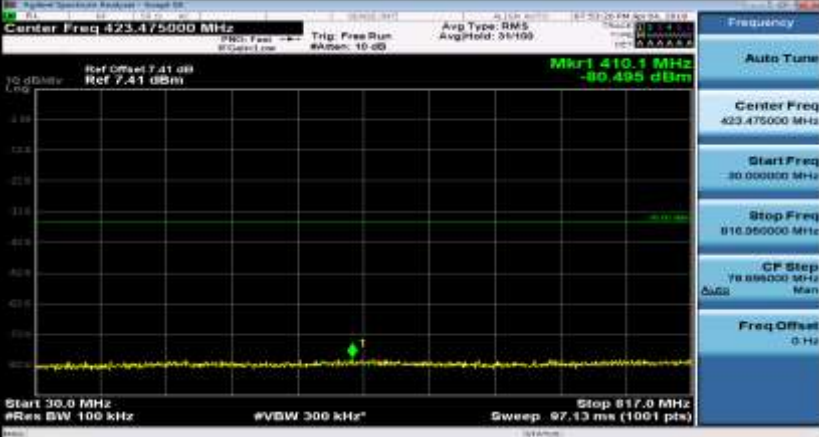
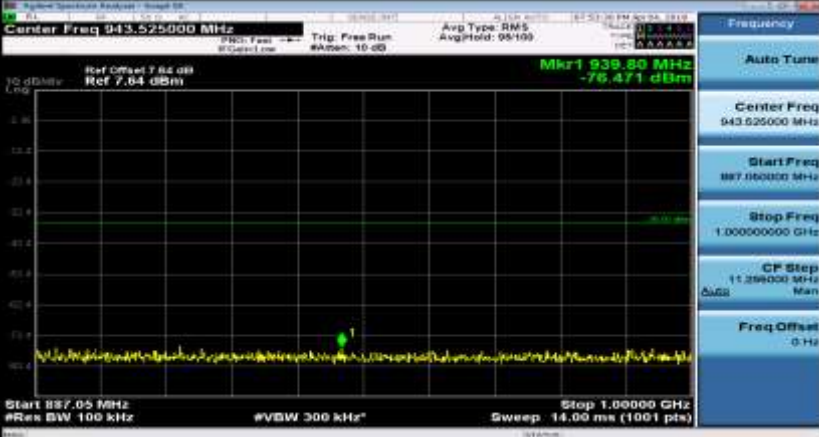

Co-existence	
Co-existence	
Co-existence	

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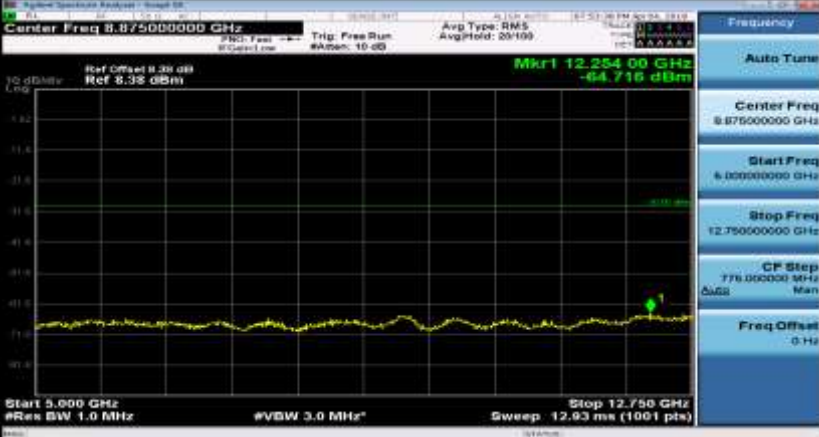
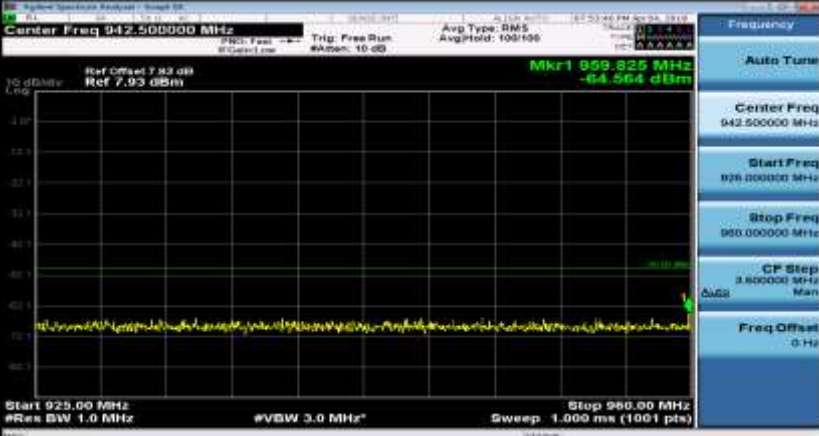
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_1RB#max	
General	
General	

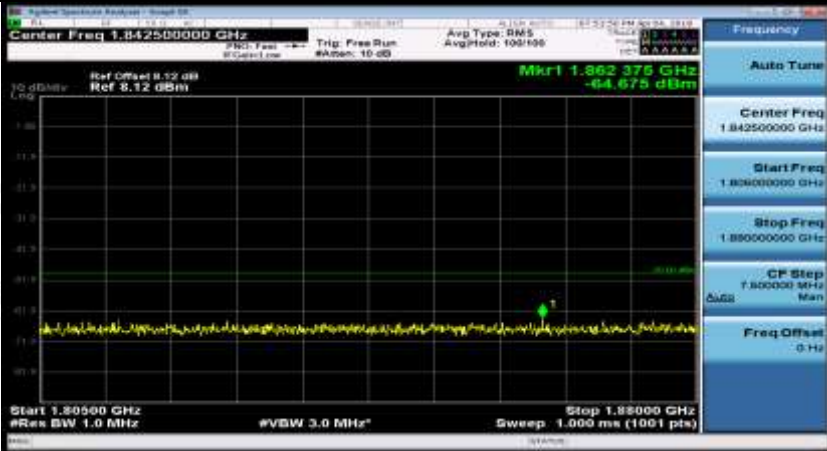
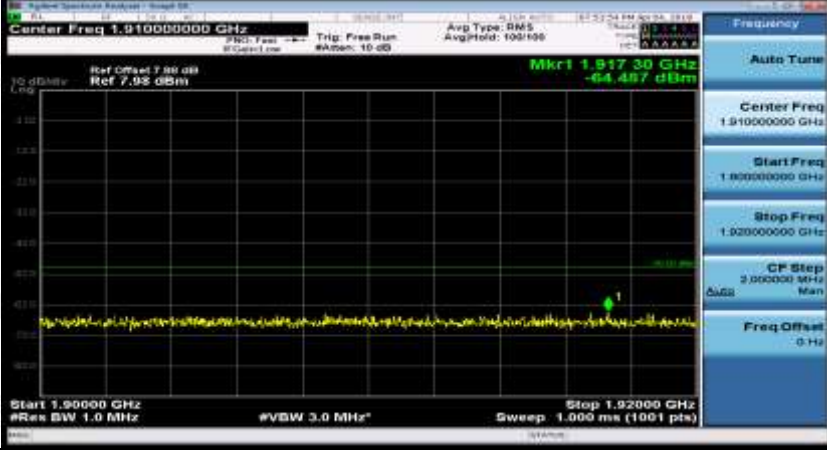
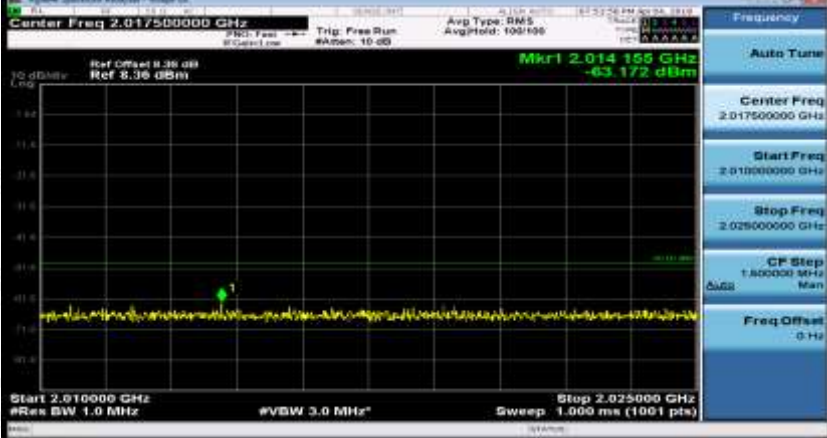
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General			
General			
General			

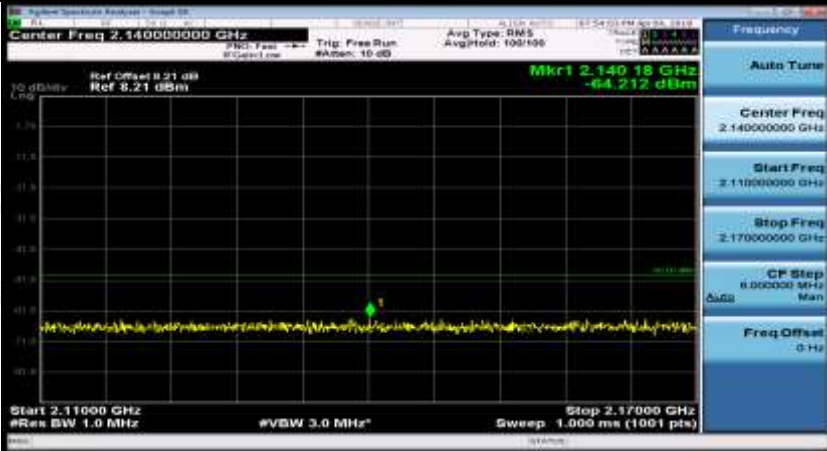
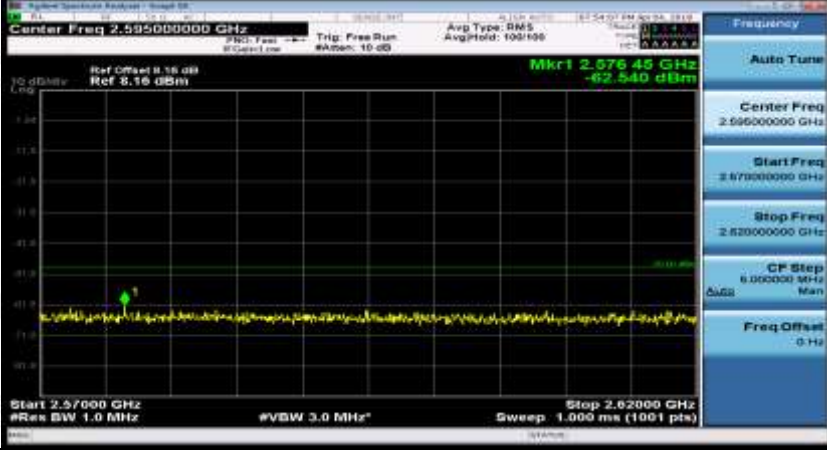

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General			
Co-existence			
Co-existence			

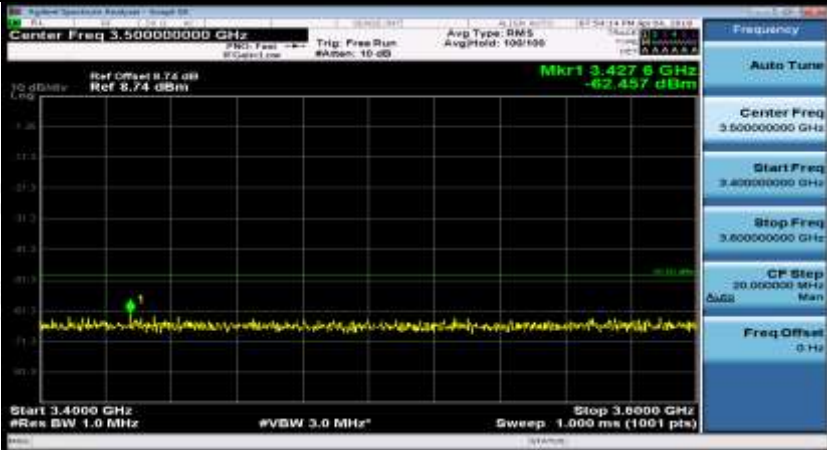
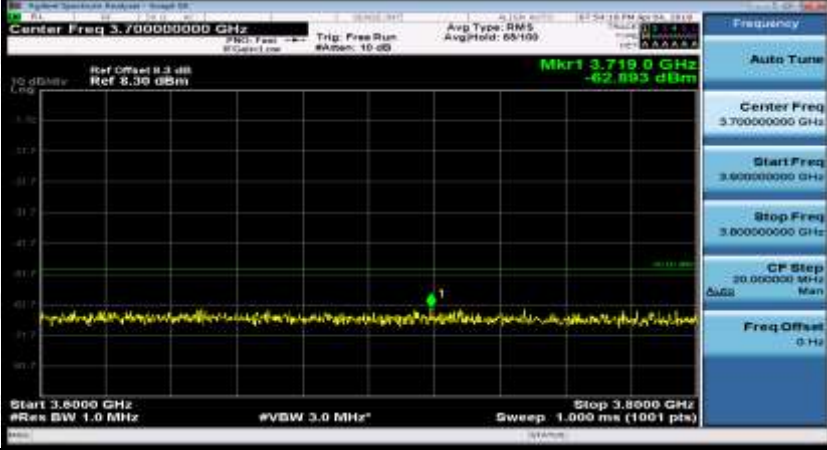
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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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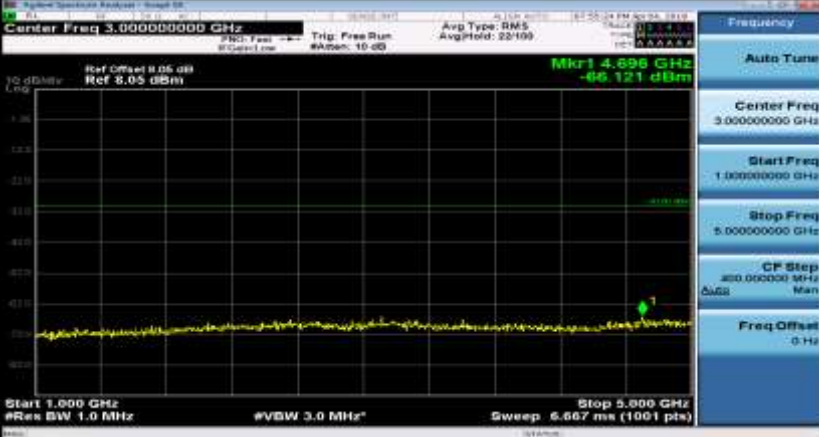
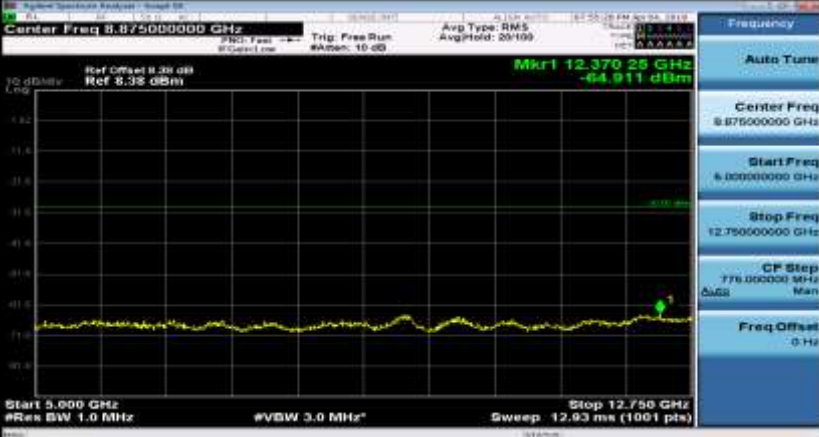
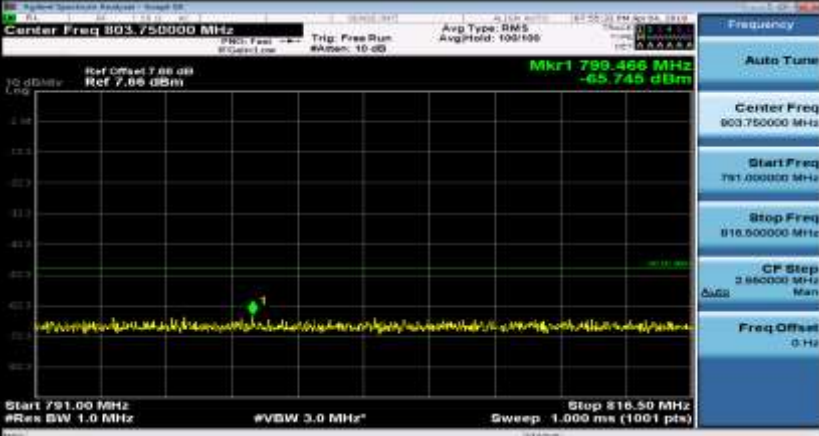
Co-existence	
Co-existence	
Additional	NA

Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_FullIRB#0	
General	

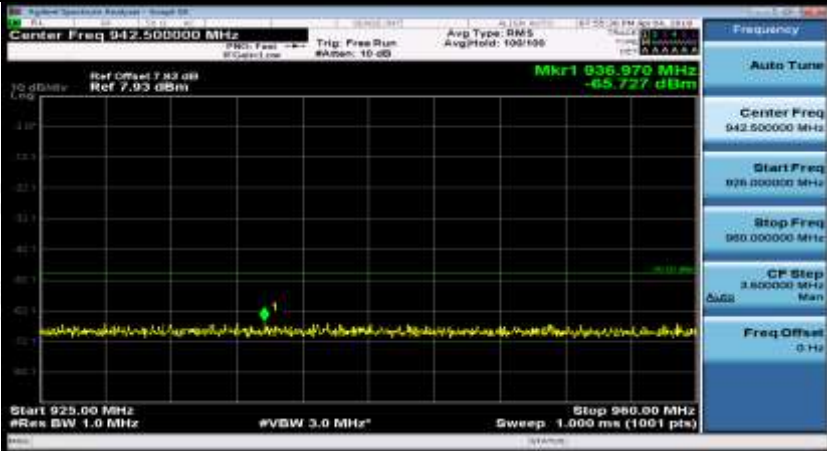
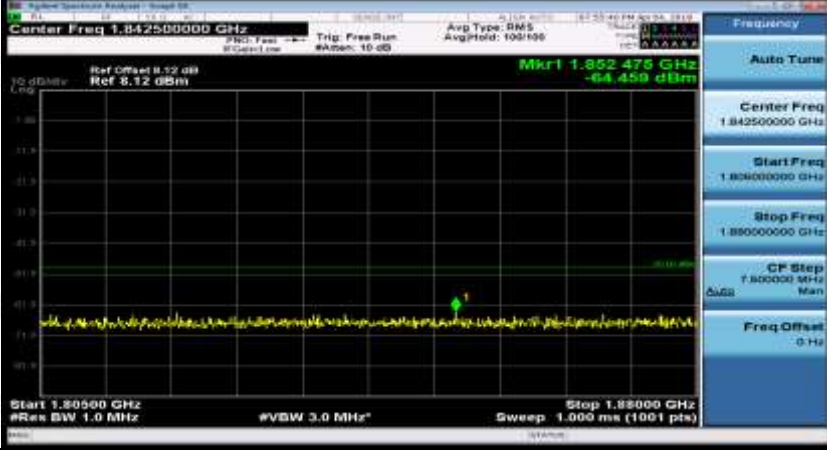
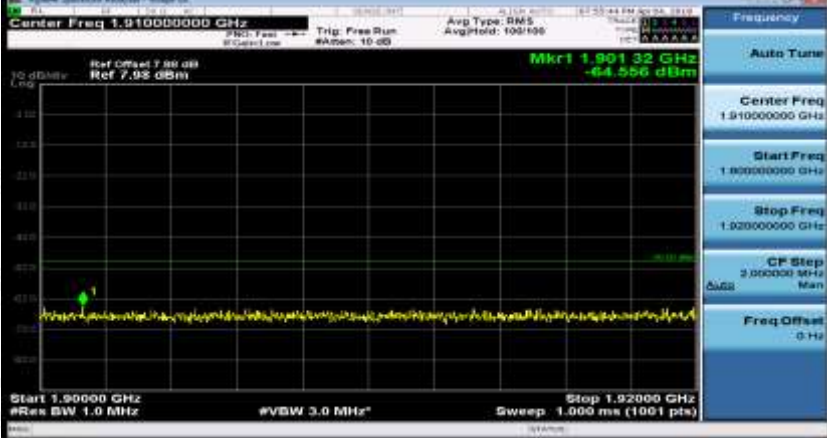
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General			
General			
General			

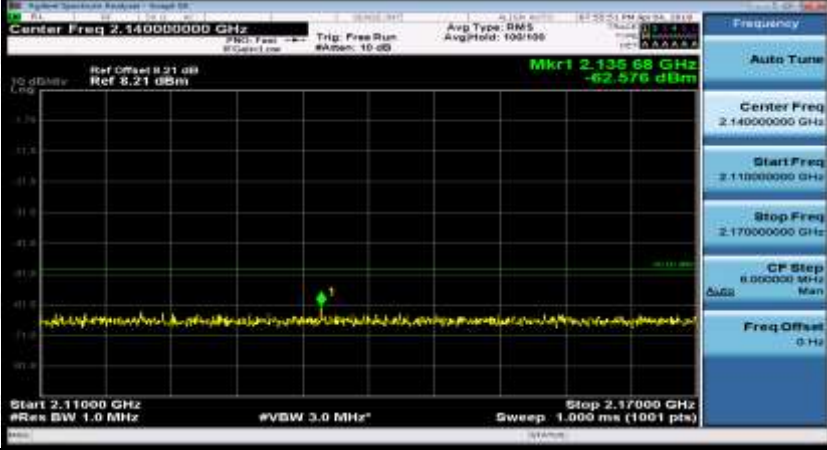
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

General			
General			
Co-existence			

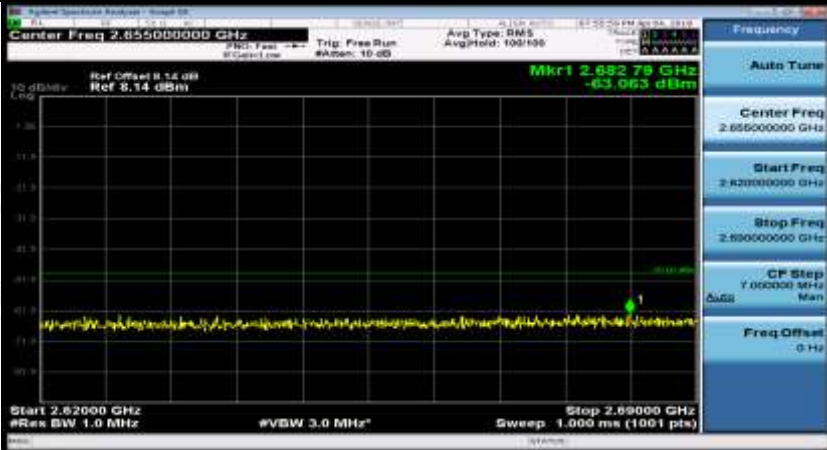

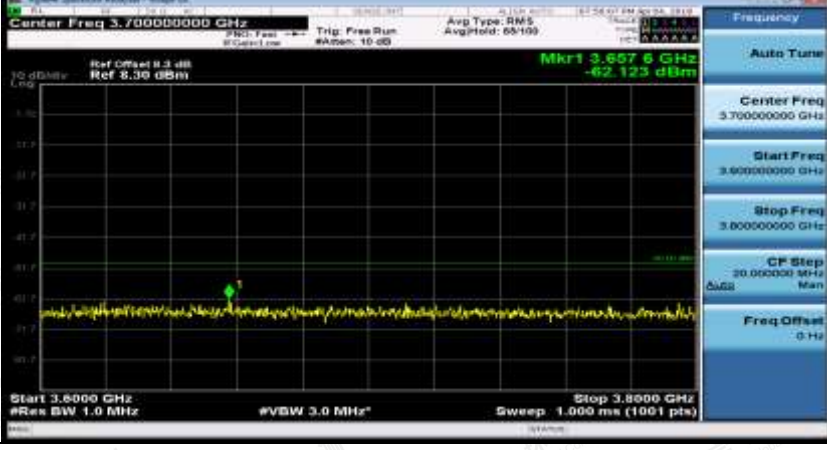
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	

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Co-existence	
Co-existence	
Co-existence	
Additional	NA

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6. Receiver Spurious Emissions

Test Result

NTNV

Channel Bandwidth=Highest

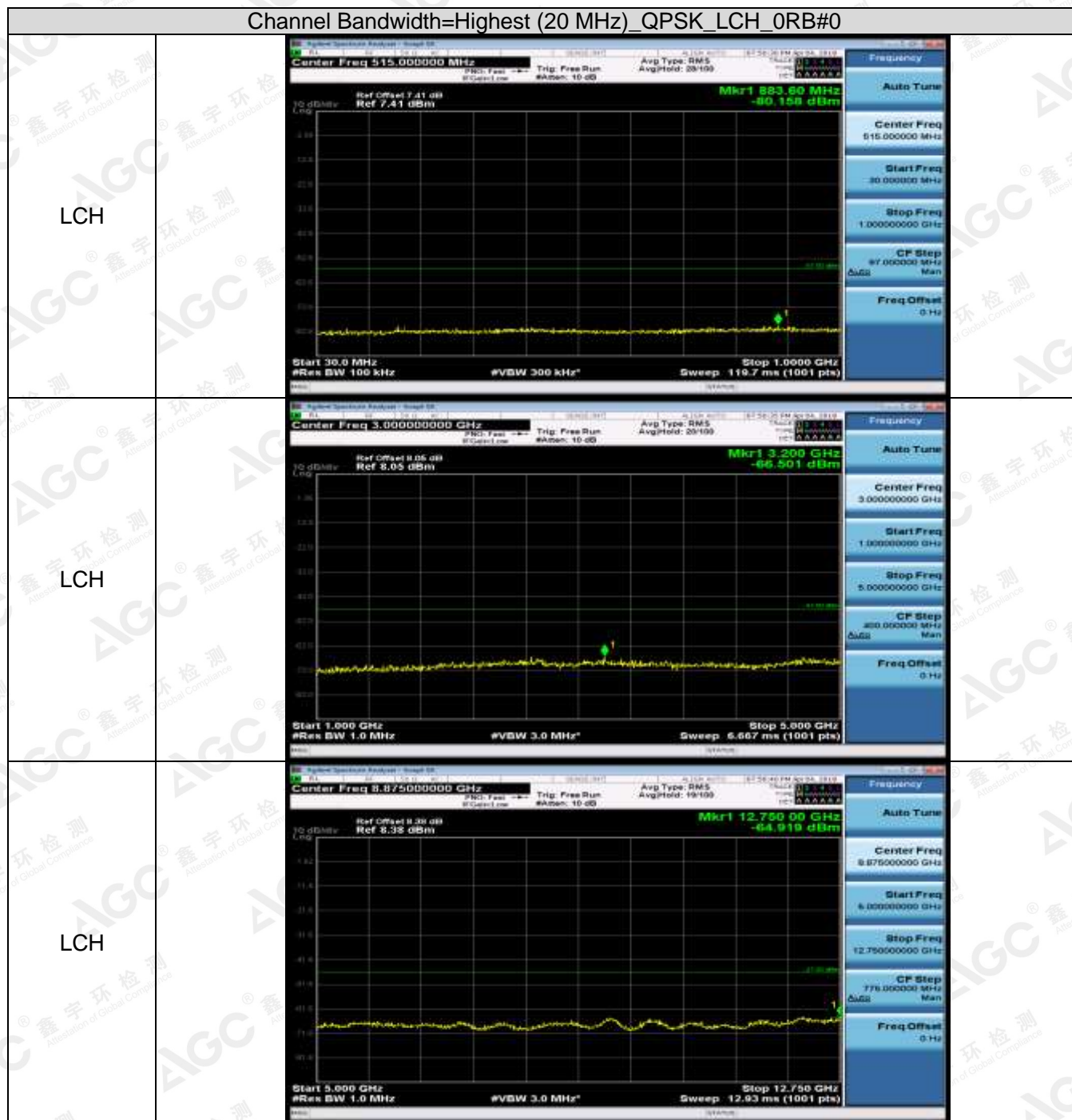
Condition	Modulation	Channel Bandwidth	Channel	RB allocation		Verdict
				RB Size	RB Offset	
Normal	QPSK	20 MHz	Low range	0	0	Pass
			Mid range	0	0	Pass
			High range	0	0	Pass

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Test Graphs

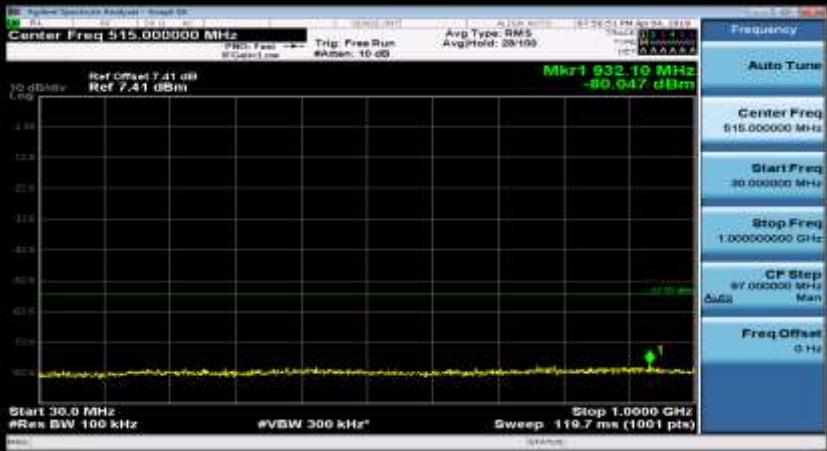


NTNV

Channel Bandwidth=Highest



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Channel Bandwidth=Highest (20 MHz)_QPSK_MCH_0RB#0

MCH	
MCH	
MCH	

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Channel Bandwidth=Highest (20 MHz)_QPSK_HCH_ORB#0

HCH	
HCH	
HCH	

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7. Radiated spurious emissions - MS in idle mode

Test Result

NTNV

Channel Bandwidth=Highest= (20 MHz)

Frequency	Modulation	RBW	Max .Level (dbm)	Test Conditions=TNVN		
				Test Channel		
				LCH	MCH	HCH
$30 \text{ MHz} \leq f < 1 \text{ GHz}$	QPSK	100 kHz	-57	-74.36	-74.48	-74.58
$1 \text{ GHz} \leq f \leq 5 \text{ GHz}$		1 MHz	-47	-69.24	-69.35	-69.53
$5 \text{ GHz} \leq f \leq 12.75 \text{ GHz}$		1 MHz	-47	-71.59	-71.71	-71.67
Verdict	PASS					

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8. Receiver Adjacent Channel Selectivity (ACS)

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest, 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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9. Receiver blocking characteristics

Test Results

The equipment **passed** the requirement of this clause.

In-Band Blocking

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest, 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		CASE1
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

Out-of Band Blocking

Test Environment			NC		
Test Frequencies			Low range for FInterferer below FDL_low High range for FInterferer above FDL_high		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		RANGE1/RANGE2/RANGE3
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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Narrow Band

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Throughput Limit
		FDD		FDD	
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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10. Receiver Spurious Response

Test Results

The equipment **passed** the requirement of this clause.

Test Environment			NC		
Test Frequencies			Mid range		
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz		
Test Parameters for Channel Bandwidths					
	Downlink Configuration		Uplink Configuration		
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 1
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	CASE 2
		FDD		FDD	Throughput Limit
5MHz	QPSK	Full	QPSK	25	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	≥ 95 %
20MHz	QPSK	Full	QPSK	100	≥ 95 %
Verdict	Pass				

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11. Receiver Intermodulation Characteristics

Test Results

The equipment **passed** the requirement of this clause.

Test Band			Band 20			
Test Environment			NC			
Test Frequencies			Mid range			
Test Channel Bandwidths			Lowest, 5MHz, Highest 20MHz			
Test Parameters for Channel Bandwidths						
	Downlink Configuration		Uplink Configuration			
Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
		FDD		FDD		
5MHz	QPSK	Full	QPSK	25	Pass	≥ 95 %
10MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
20MHz	QPSK	Full	QPSK	100	Pass	≥ 95 %
Verdict	Pass					

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12. Receiver Reference Sensitivity Level

Test Results

Note: All the modes had been tested, but only the worst data recorded in the report.

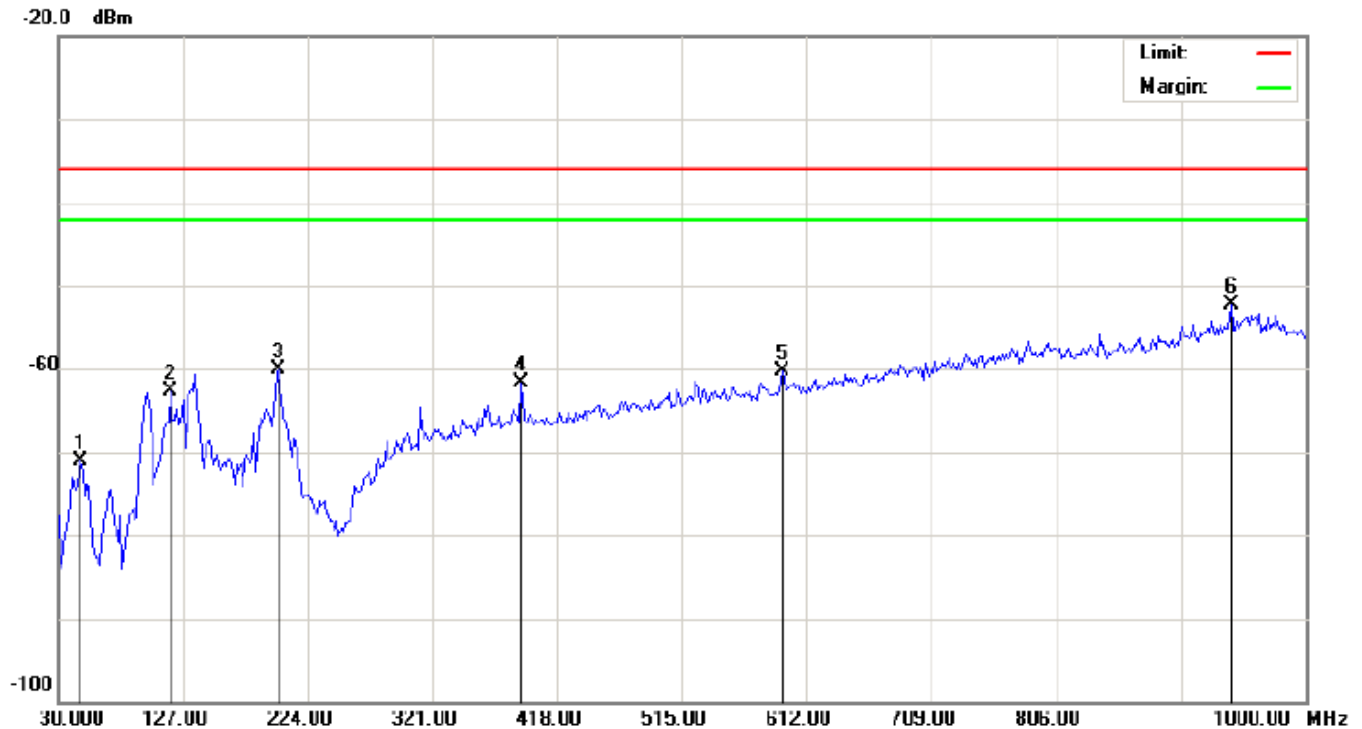
LTLV

	Test Band			Band 20			
	TestEnvironment			NC			
	Test Frequencies			Midrange			
	TestChannelBandwidths			Lowest,5MHz,Highest 20MHz			
	Test Parameters for Channel Bandwidths						
		DownlinkConfiguration n		Uplink Configuration			
	Ch BW	Mod' n	RB allocation	Mod' n	RB allocation	Meas. Throughput	Throughput Limit
			FDD		FDD		
TL,VL	5MHz	QPSK	Full	QPSK	25	Pass	≥ 95 %
	10MHz	QPSK	Full	QPSK	15,20,25	Pass	≥ 95 %
	20MHz	QPSK	Full	QPSK	100	Pass	≥ 95 %
	Verdict	Pass					

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APPENDIX F. RADIATED SPURIOUS EMISSIONS

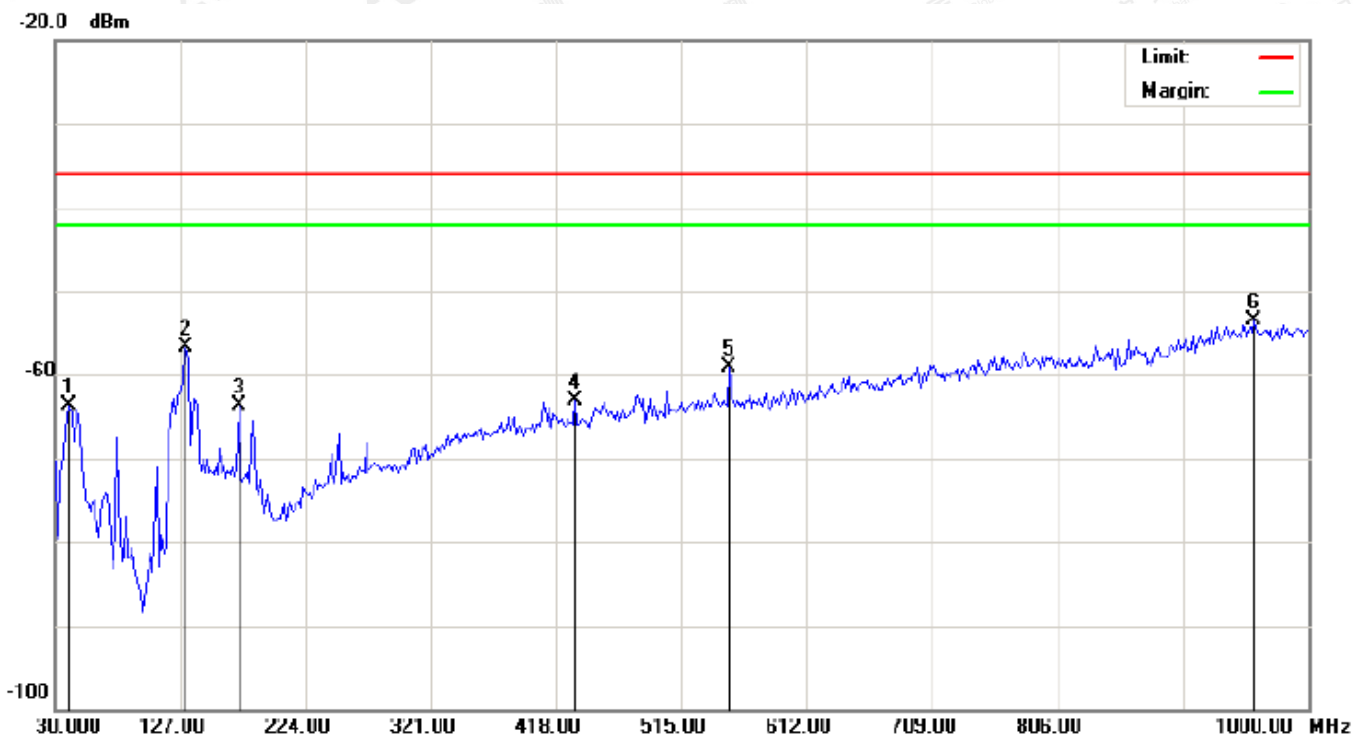
Radiated spurious emissions LTE band 1 Below 1GHZ– H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		47.7833	-104.39	33.23	-71.16	-36.00	-35.16	peak			
2		117.3000	-99.62	36.96	-62.66	-36.00	-26.66	peak			
3		201.3667	-94.00	33.86	-60.14	-36.00	-24.14	peak			
4		390.5167	-102.57	40.95	-61.62	-36.00	-25.62	peak			
5		592.6000	-105.45	45.24	-60.21	-36.00	-24.21	peak			
6	*	941.8000	-104.16	51.77	-52.39	-36.00	-16.39	peak			

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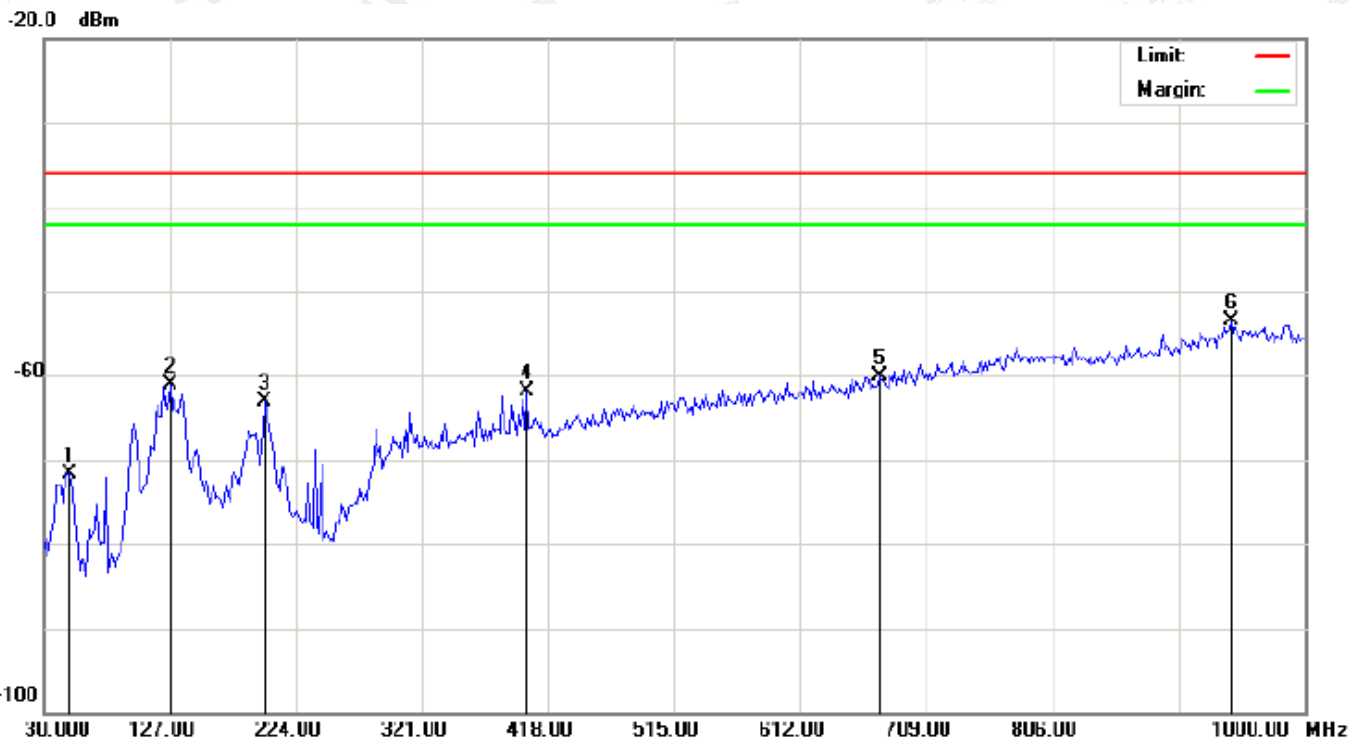
Radiated spurious emissions LTE band 1 Below 1GHZ- V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		41.3167	-94.25	30.63	-63.62	-36.00	-27.62	peak			
2		131.8500	-90.52	33.80	-56.72	-36.00	-20.72	peak			
3		172.2667	-100.21	36.52	-63.69	-36.00	-27.69	peak			
4		432.5500	-105.17	42.16	-63.01	-36.00	-27.01	peak			
5		552.1833	-103.52	44.49	-59.03	-36.00	-23.03	peak			
6	*	957.9667	-105.65	52.08	-53.57	-36.00	-17.57	peak			

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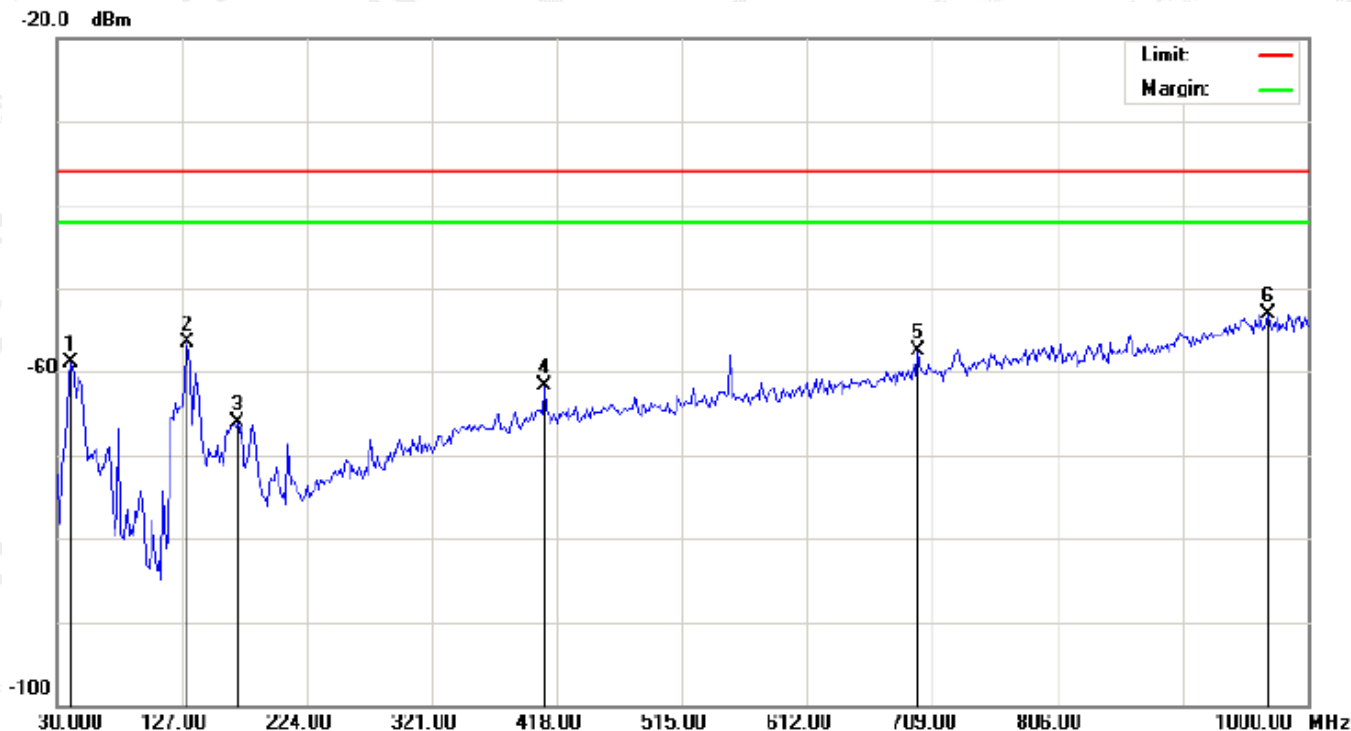
Radiated spurious emissions LTE band 3 Below 1GHZ- H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		49.4000	-104.91	33.24	-71.67	-36.00	-35.67	peak			
2		127.0000	-98.78	37.61	-61.17	-36.00	-25.17	peak			
3		199.7500	-97.12	34.00	-63.12	-36.00	-27.12	peak			
4		401.8333	-103.08	41.12	-61.96	-36.00	-25.96	peak			
5		673.4333	-106.59	46.46	-60.13	-36.00	-24.13	peak			
6	*	943.4167	-105.23	51.82	-53.41	-36.00	-17.41	peak			

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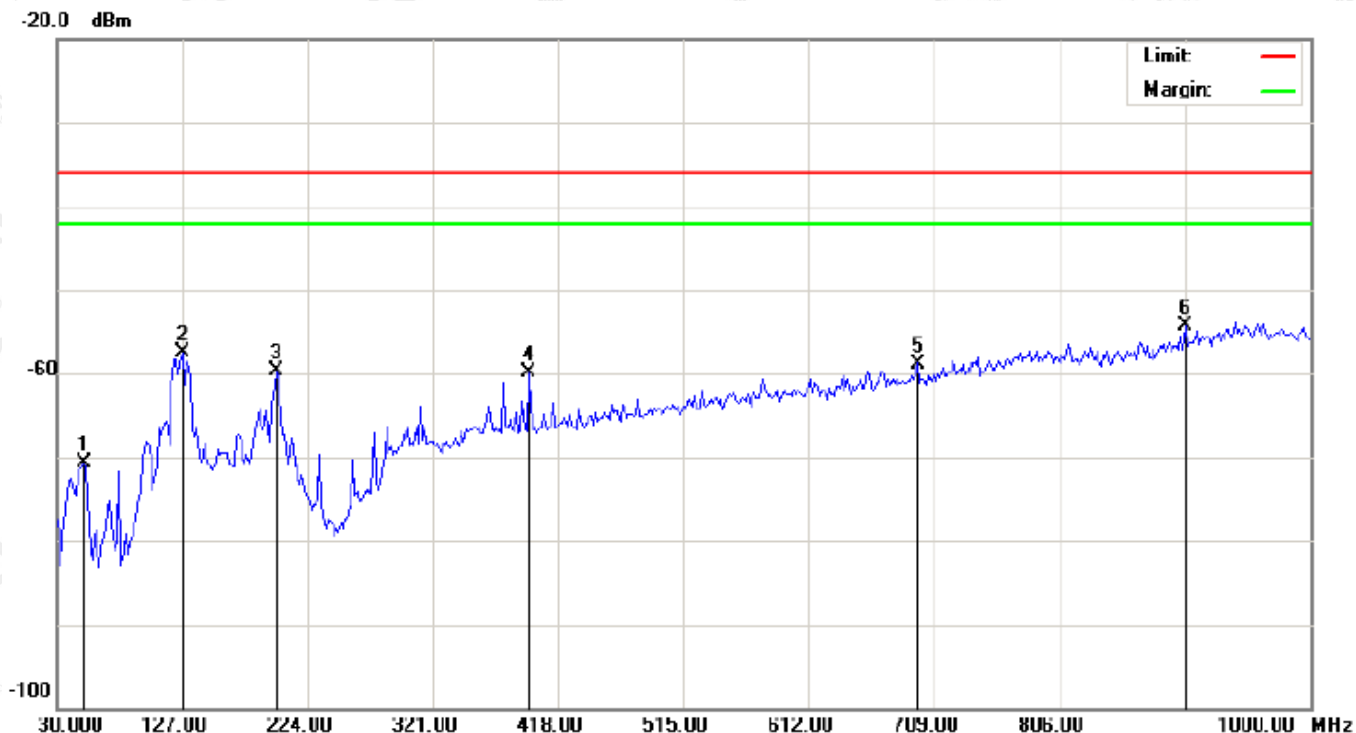
Radiated spurious emissions LTE band 3 Below 1GHz- V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		41.3167	-89.47	30.63	-58.84	-36.00	-22.84	peak			
2		131.8500	-90.37	33.80	-56.57	-36.00	-20.57	peak			
3		170.6500	-102.70	36.61	-66.09	-36.00	-30.09	peak			
4		408.3000	-103.26	41.56	-61.70	-36.00	-25.70	peak			
5		697.6833	-104.70	47.13	-57.57	-36.00	-21.57	peak			
6	*	969.2833	-105.26	52.20	-53.06	-36.00	-17.06	peak			

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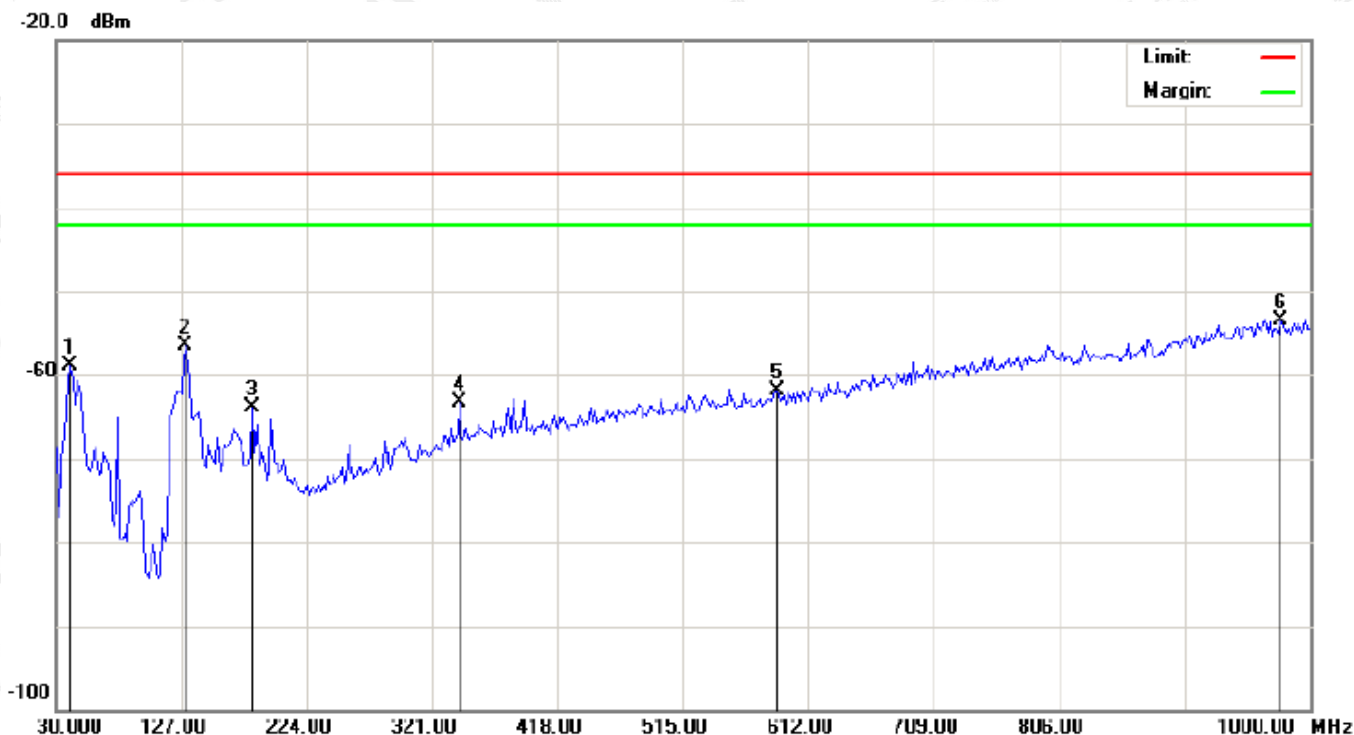
Radiated spurious emissions LTE band 7 Below 1GHZ- H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		51.0167	-102.94	32.15	-70.79	-36.00	-34.79	peak			
2		127.0000	-95.12	37.61	-57.51	-36.00	-21.51	peak			
3		199.7500	-93.67	34.00	-59.67	-36.00	-23.67	peak			
4		395.3667	-100.99	41.02	-59.97	-36.00	-23.97	peak			
5		696.0667	-105.85	47.05	-58.80	-36.00	-22.80	peak			
6	*	903.0000	-104.97	50.69	-54.28	-36.00	-18.28	peak			

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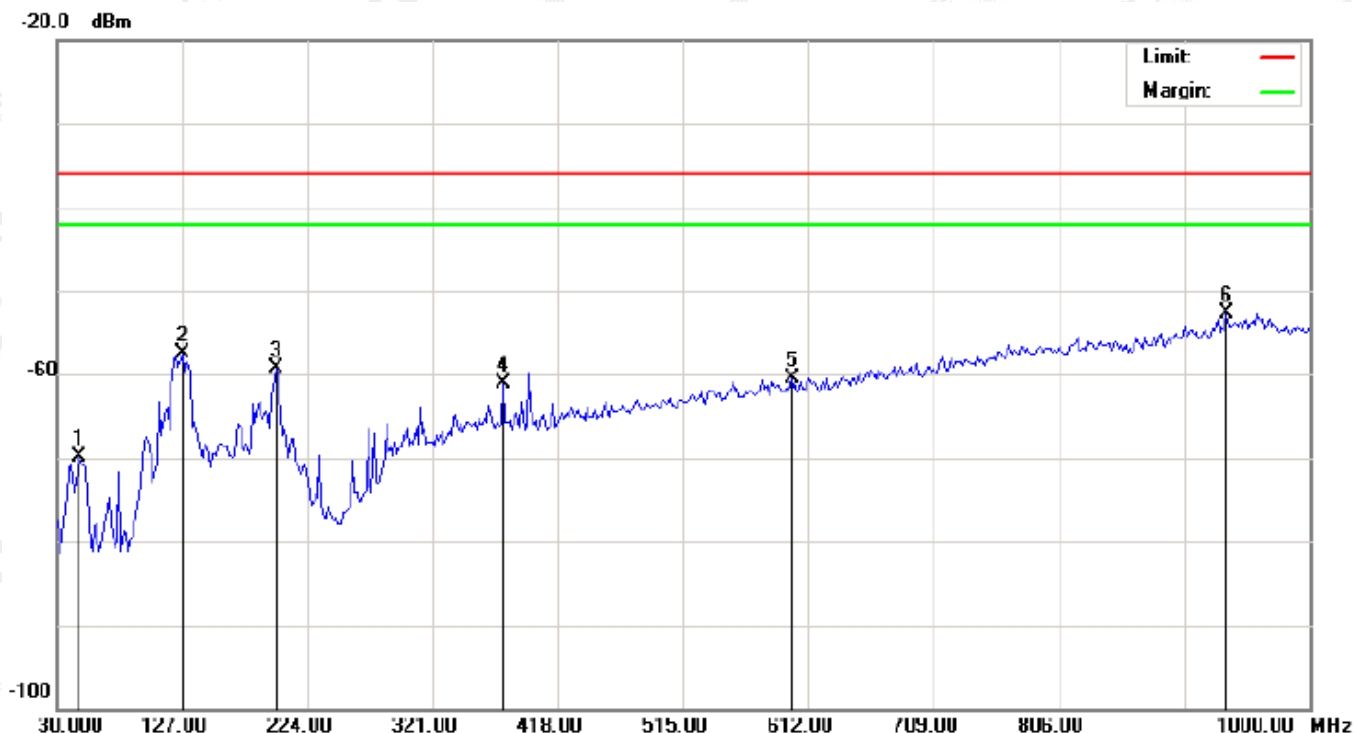
Radiated spurious emissions LTE band 7 Below 1GHZ-V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		41.3167	-89.50	30.63	-58.87	-36.00	-22.87	peak			
2		130.2333	-89.57	33.13	-56.44	-36.00	-20.44	peak			
3		181.9667	-99.46	35.57	-63.89	-36.00	-27.89	peak			
4		342.0167	-103.57	40.22	-63.35	-36.00	-27.35	peak			
5		587.7500	-106.48	44.67	-61.81	-36.00	-25.81	peak			
6	*	977.3667	-105.78	52.28	-53.50	-36.00	-17.50	peak			

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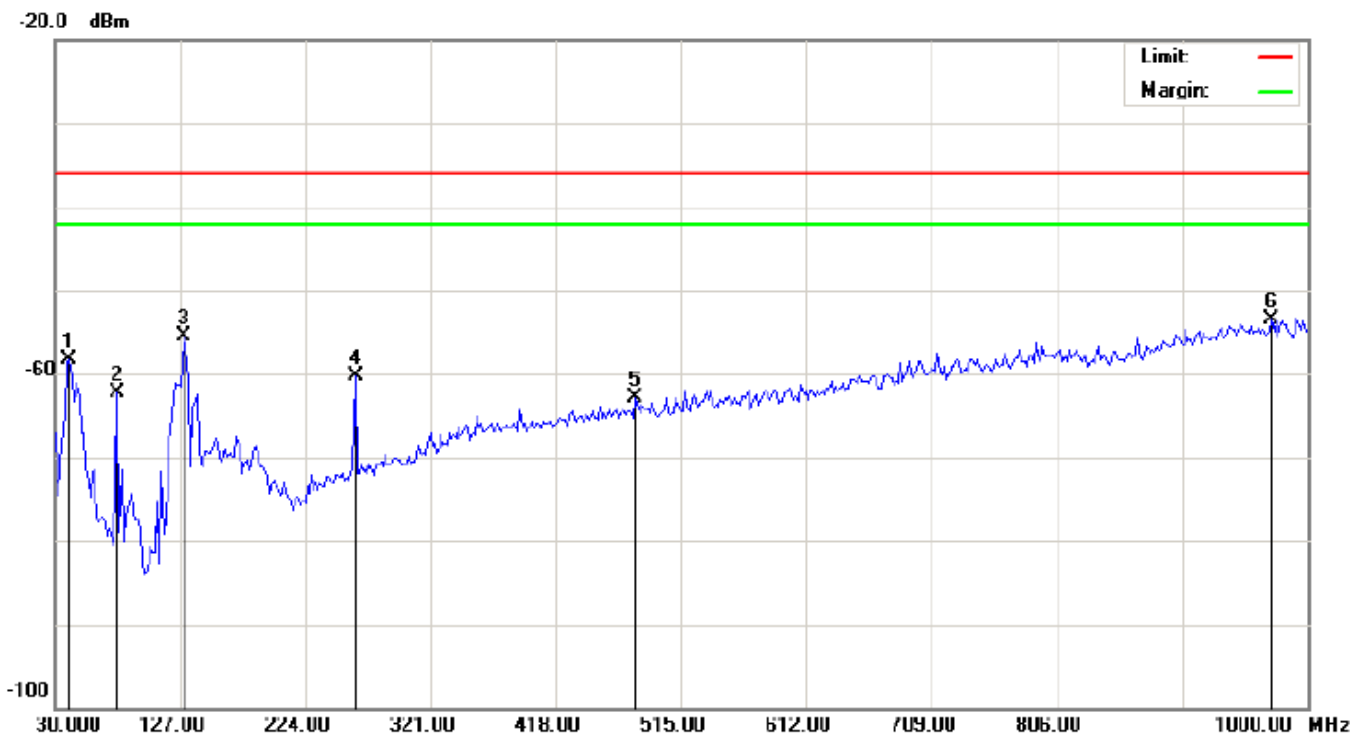
Radiated spurious emissions LTE band 8 Below 1GHZ- H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		47.7833	-103.07	33.23	-69.84	-36.00	-33.84	peak			
2		127.0000	-95.12	37.61	-57.51	-36.00	-21.51	peak			
3		199.7500	-93.23	34.00	-59.23	-36.00	-23.23	peak			
4		375.9667	-101.82	40.76	-61.06	-36.00	-25.06	peak			
5		599.0667	-105.81	45.34	-60.47	-36.00	-24.47	peak			
6	*	935.3333	-104.36	51.59	-52.77	-36.00	-16.77	peak			

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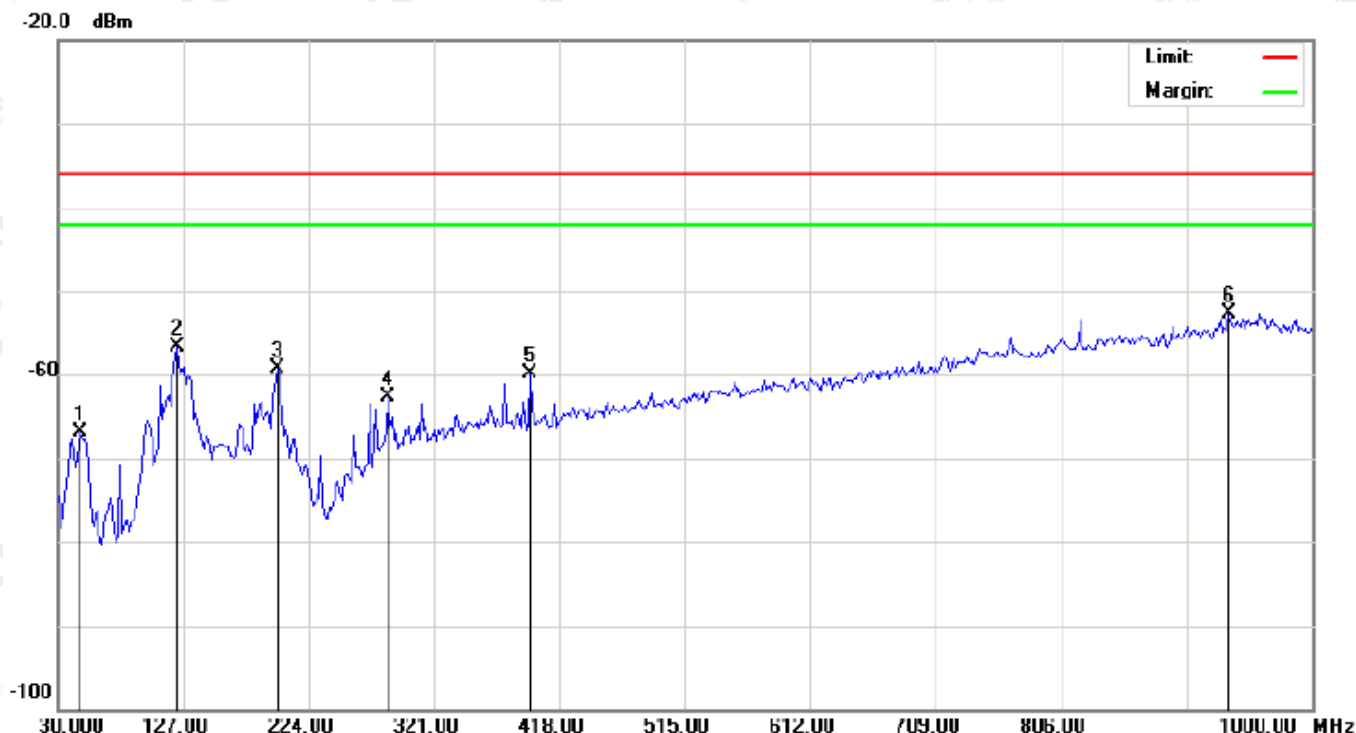
Radiated spurious emissions LTE band 8 Below 1GHZ- V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		41.3167	-88.94	30.63	-58.31	-36.00	-22.31	peak			
2		78.5000	-86.43	24.17	-62.26	-36.00	-26.26	peak			
3		130.2333	-88.55	33.13	-55.42	-36.00	-19.42	peak			
4		262.8000	-96.59	36.29	-60.30	-36.00	-24.30	peak			
5		479.4333	-105.86	42.93	-62.93	-36.00	-26.93	peak			
6	*	972.5167	-105.79	52.23	-53.56	-36.00	-17.56	peak			

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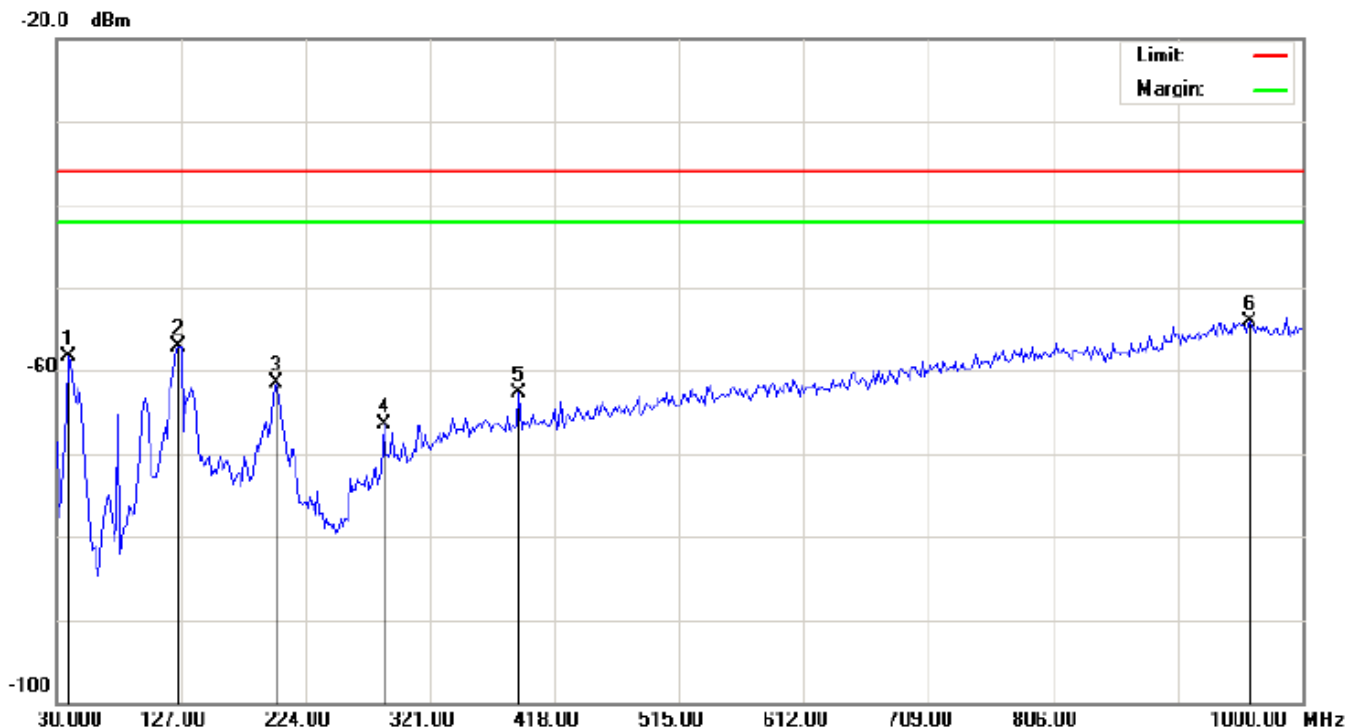
Radiated spurious emissions LTE band 20 Below 1GHZ- H



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		47.7833	-100.07	33.23	-66.84	-36.00	-30.84	peak			
2		122.1500	-94.39	37.64	-56.75	-36.00	-20.75	peak			
3		199.7500	-93.23	34.00	-59.23	-36.00	-23.23	peak			
4		285.4333	-97.65	34.93	-62.72	-36.00	-26.72	peak			
5		395.3667	-100.99	41.02	-59.97	-36.00	-23.97	peak			
6	*	935.3333	-104.36	51.59	-52.77	-36.00	-16.77	peak			

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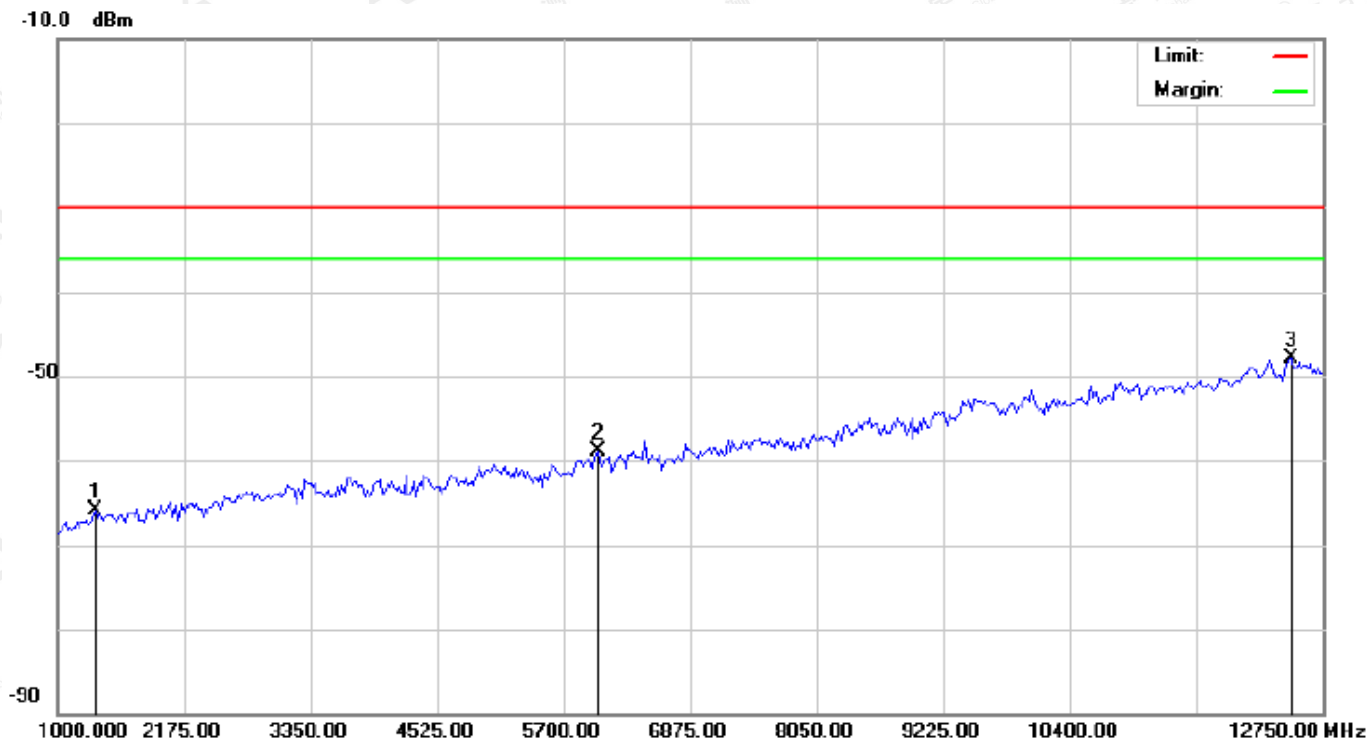
Radiated spurious emissions LTE band 20 Below 1GHz- V



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBm	dB	dBm	dBm	dB		cm	degree	
1		39.7000	-91.16	32.83	-58.33	-36.00	-22.33	peak			
2		125.3833	-94.79	37.62	-57.17	-36.00	-21.17	peak			
3		201.3667	-95.34	33.86	-61.48	-36.00	-25.48	peak			
4		285.4333	-101.35	34.93	-66.42	-36.00	-30.42	peak			
5		390.5167	-103.72	40.95	-62.77	-36.00	-26.77	peak			
6	*	959.5833	-106.01	51.91	-54.10	-36.00	-18.10	peak			

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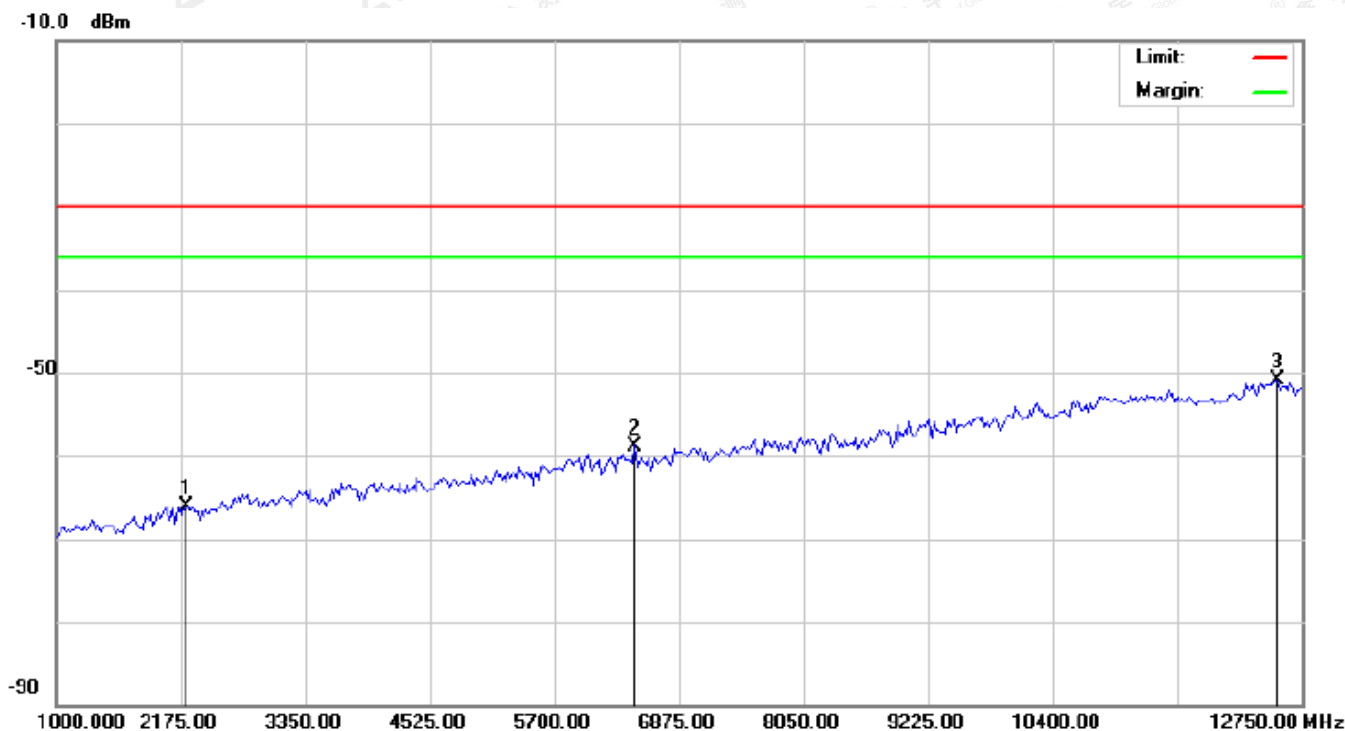
Radiated spurious emissions LTE band 1 Above 1GHZ- H



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		1352.500	-81.60	15.68	-65.92	-30.0	-35.92	peak	
2		6013.333	-74.82	15.88	-58.94	-30.0	-28.94	peak	
3	*	12456.25	-66.74	18.80	-47.94	-30.0	-17.94	peak	

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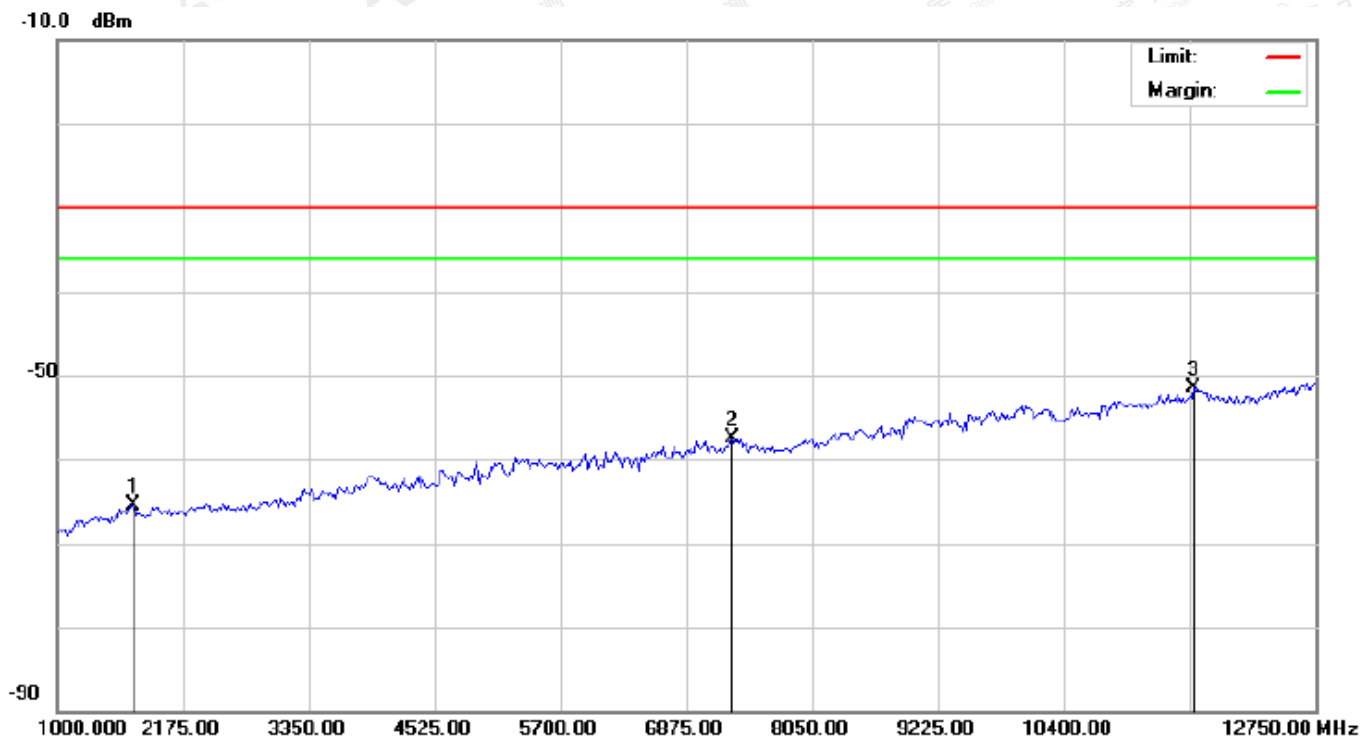
Radiated spurious emissions LTE band 1 Above 1GHz- V



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		2233.750	-81.70	15.62	-66.08	-30.0	-36.08	peak	
2		6463.750	-73.25	14.45	-58.80	-30.0	-28.80	peak	
3	*	12515.00	-69.86	18.91	-50.95	-30.0	-20.95	peak	

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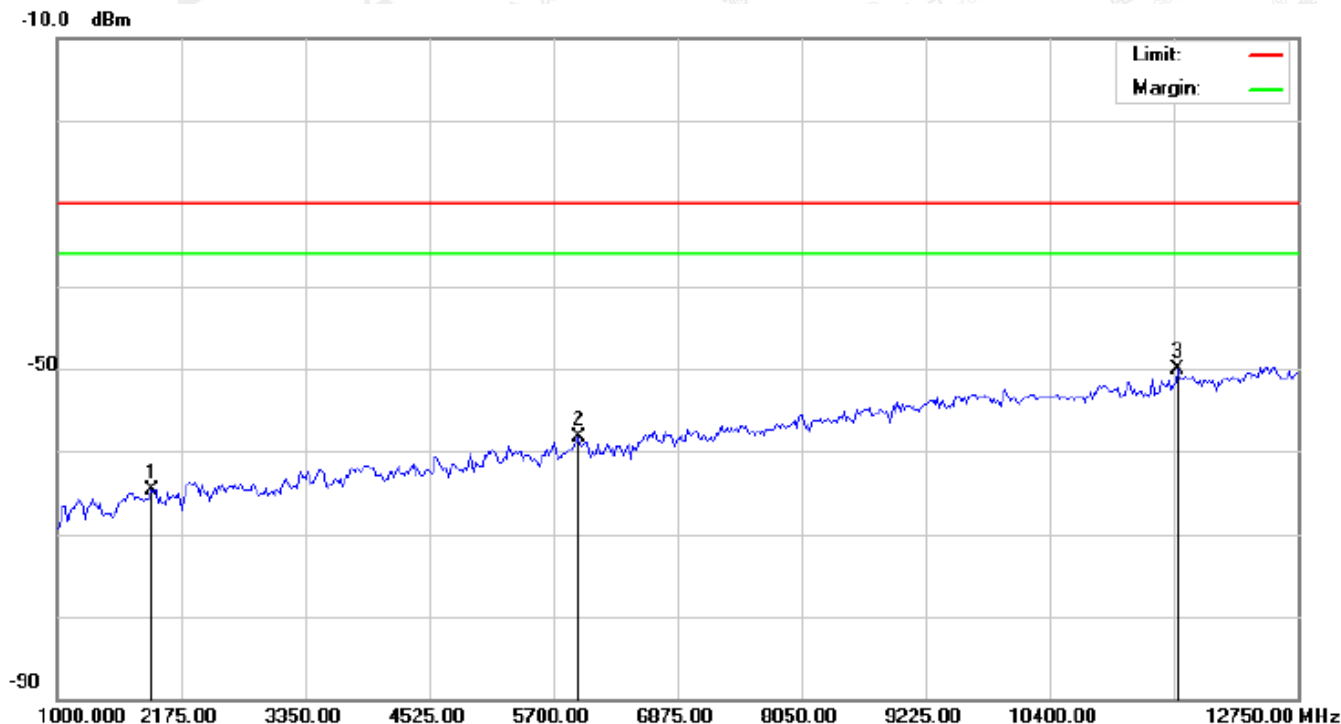
Radiated spurious emissions LTE band 3 Above 1GHZ- H



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		1685.417	-80.97	15.45	-65.52	-30.0	-35.52	peak	
2		7305.833	-72.88	15.46	-57.42	-30.0	-27.42	peak	
3	*	11614.16	-68.74	17.16	-51.58	-30.0	-21.58	peak	

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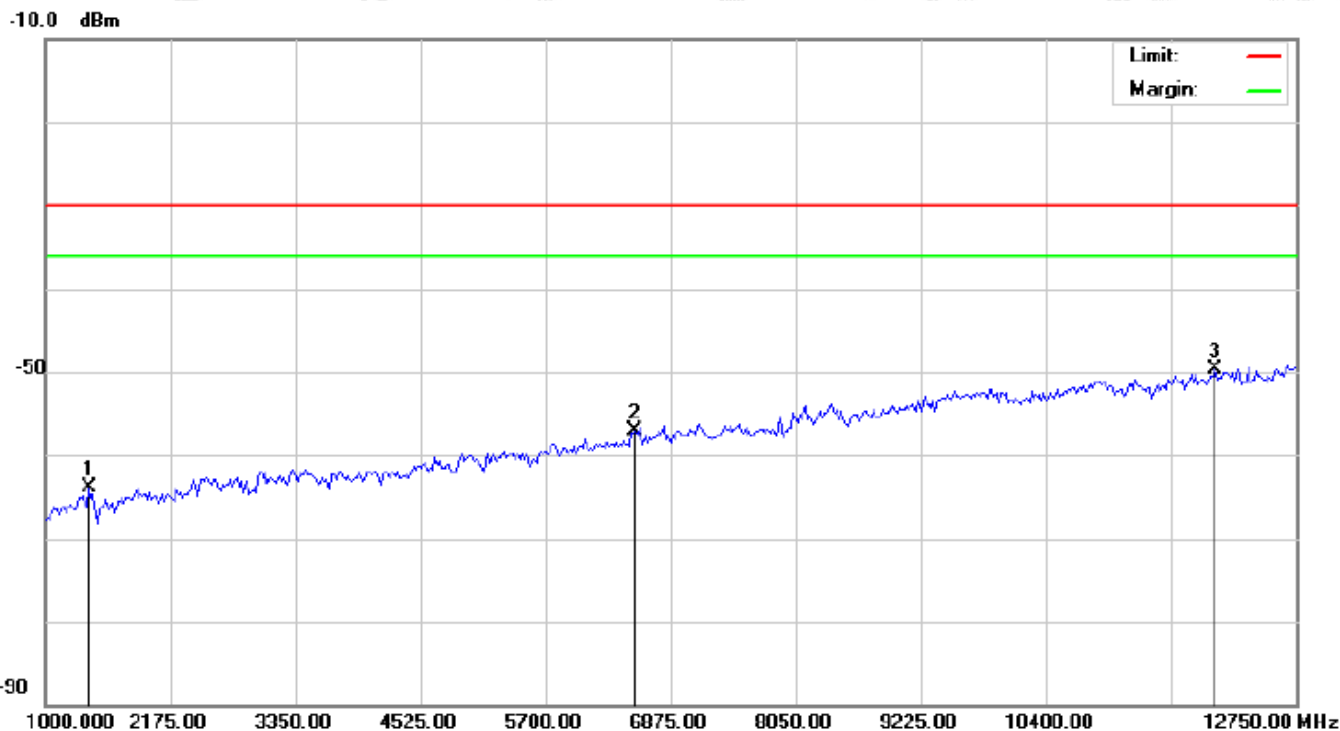
Radiated spurious emissions LTE band 3 Above 1GHz-V



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		1900.833	-80.16	15.54	-64.62	-30.0	-34.62	peak	
2		5935.000	-74.26	15.91	-58.35	-30.0	-28.35	peak	
3	*	11614.16	-67.24	17.16	-50.08	-30.0	-20.08	peak	

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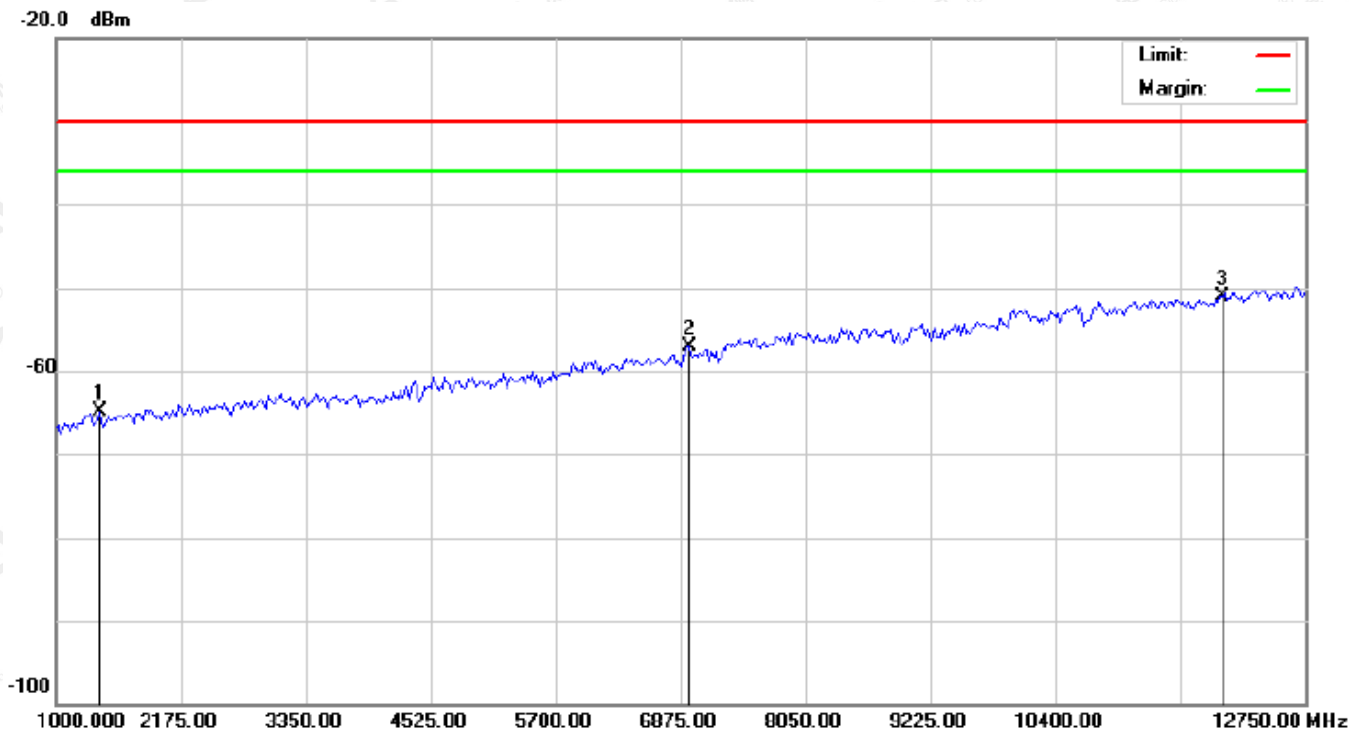
Radiated spurious emissions LTE band 7 Above 1GHZ-H



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		1411.250	-79.38	15.56	-63.82	-30.0	-33.82	peak	
2		6542.083	-71.58	14.43	-57.15	-30.0	-27.15	peak	
3	*	11986.25	-67.63	17.93	-49.70	-30.0	-19.70	peak	

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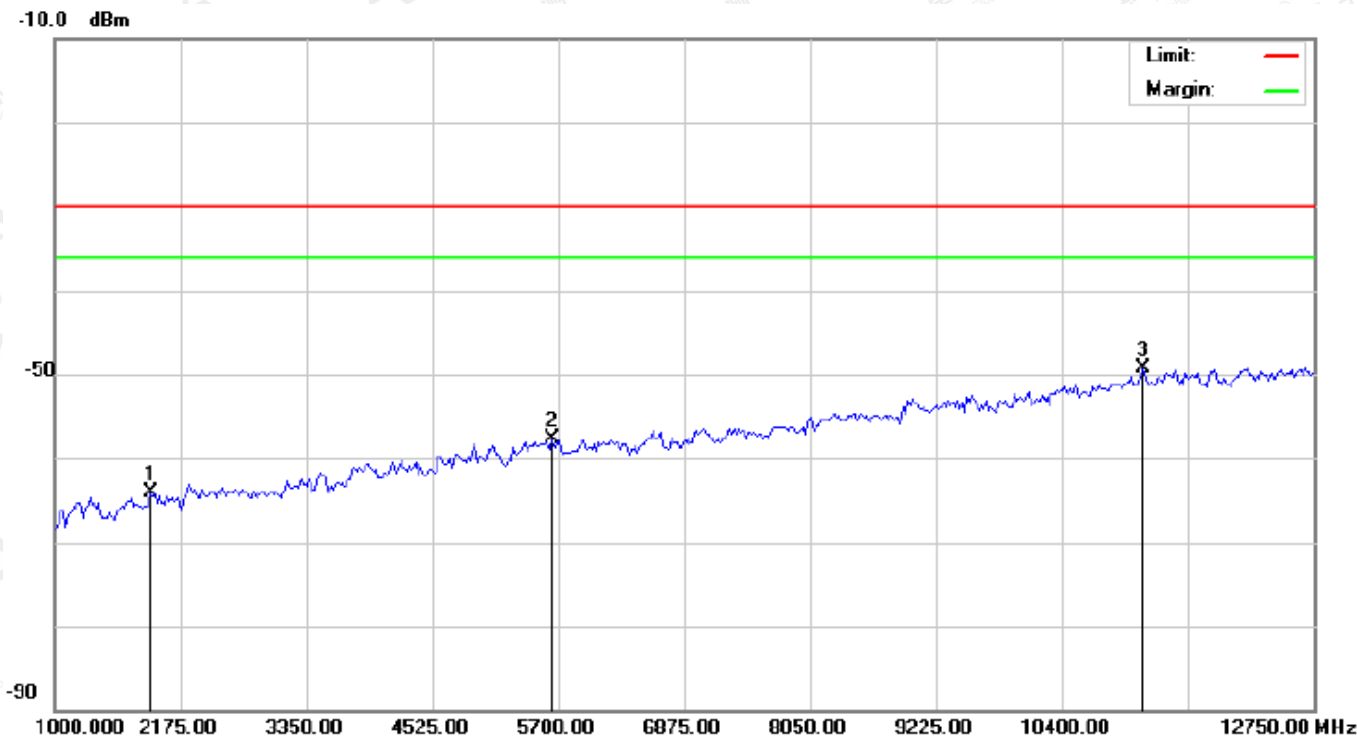
Radiated spurious emissions LTE band 7 Above 1GHz- V



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		1411.250	-80.38	15.56	-64.82	-30.0	-34.82	peak	
2		6953.333	-72.58	15.43	-57.15	-30.0	-27.15	peak	
3	*	11966.66	-68.92	17.89	-51.03	-30.0	-21.03	peak	

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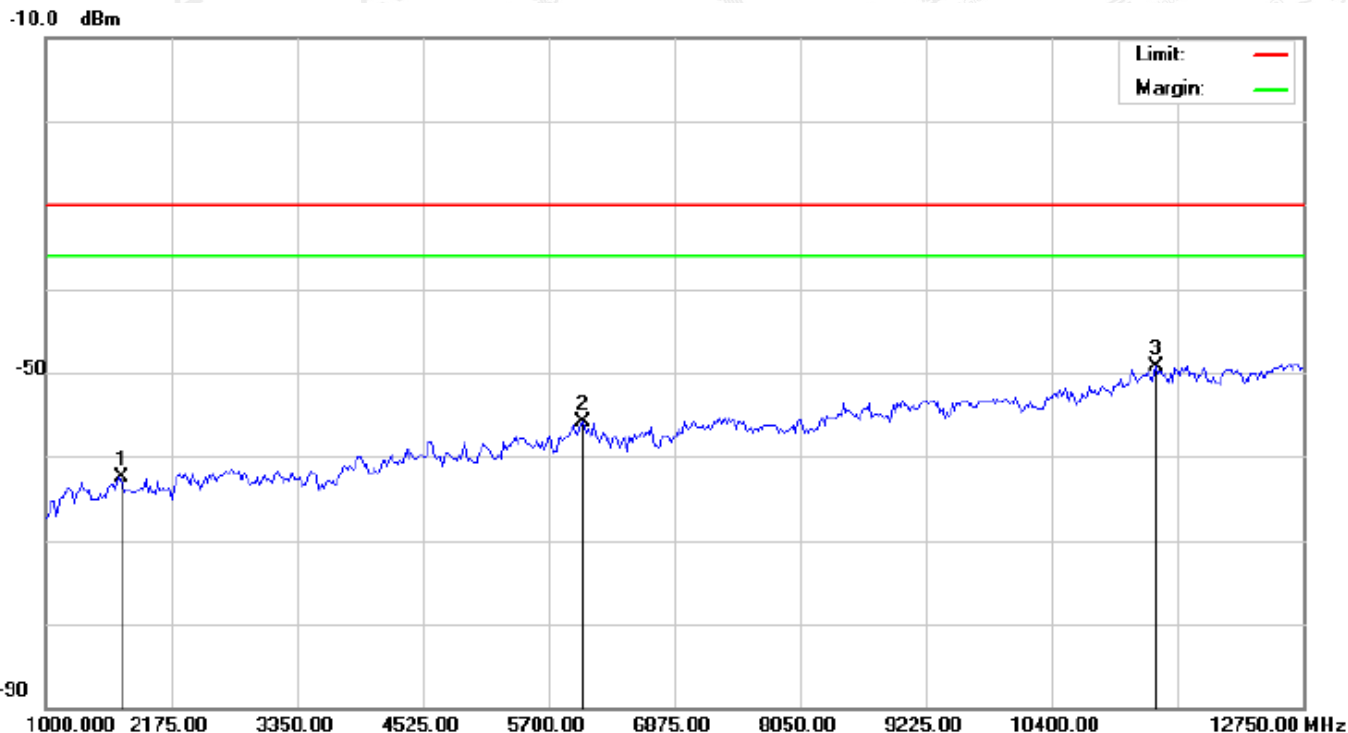
Radiated spurious emissions LTE band 8 Above 1GHZ- H



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		1900.833	-79.66	15.54	-64.12	-30.0	-34.12	peak	
2		5641.250	-73.62	15.86	-57.76	-30.0	-27.76	peak	
3	*	11163.75	-65.39	16.12	-49.27	-30.0	-19.27	peak	

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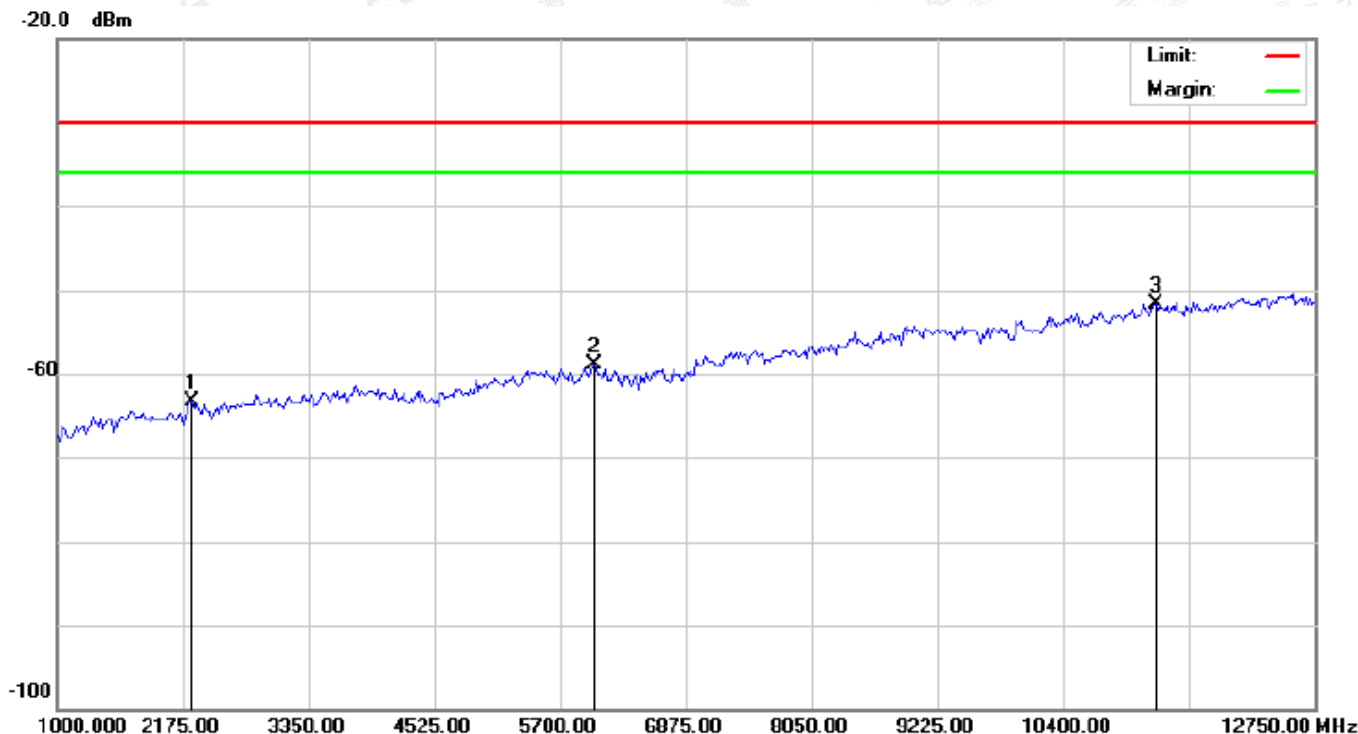
Radiated spurious emissions LTE band 8 Above 1GHz- V



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		1685.417	-77.97	15.45	-62.52	-30.0	-32.52	peak	
2		6013.333	-71.82	15.88	-55.94	-30.0	-25.94	peak	
3	*	11379.16	-65.94	16.63	-49.31	-30.0	-19.31	peak	

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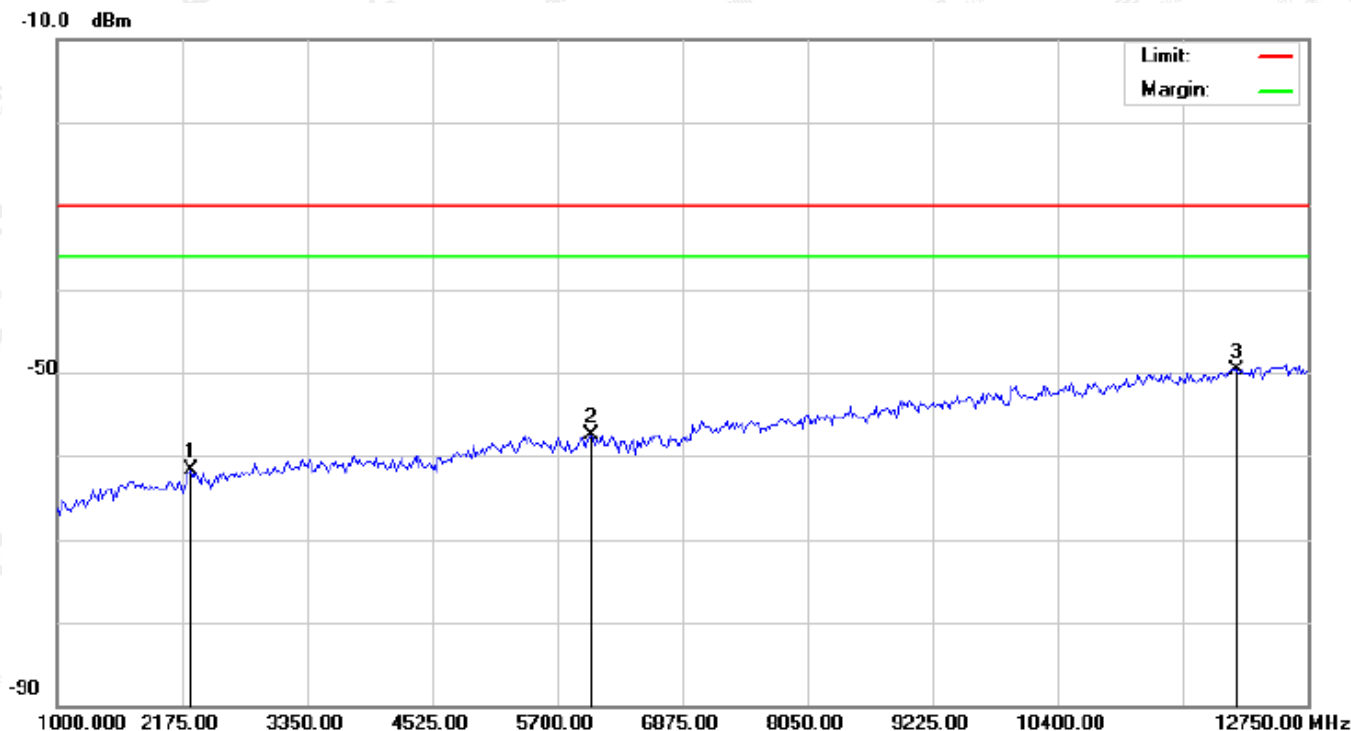
Radiated spurious emissions LTE band 20 Above 1GHZ- H



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		2253.333	-78.83	15.63	-63.20	-30.0	-33.20	peak	
2		6013.333	-74.82	15.88	-58.94	-30.0	-28.94	peak	
3	*	11261.66	-68.11	16.35	-51.76	-30.0	-21.76	peak	

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Radiated spurious emissions LTE band 20 Above 1GHZ- V

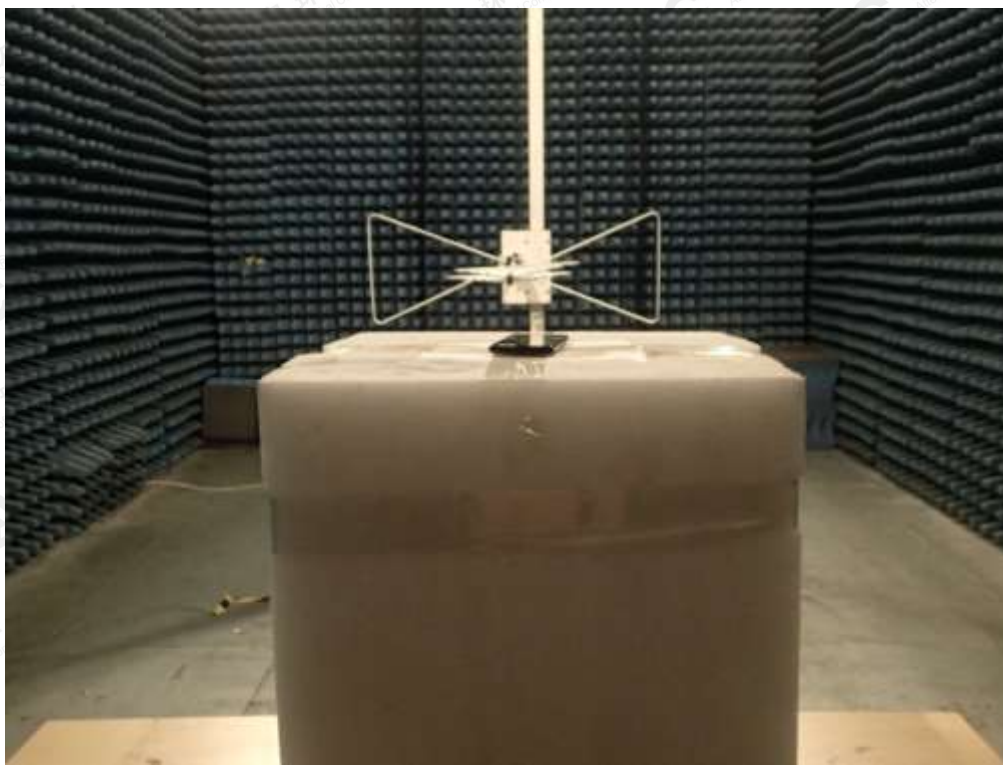


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		2253.333	-77.33	15.63	-61.70	-30.0	-31.70	peak	
2		6013.333	-73.32	15.88	-57.44	-30.0	-27.44	peak	
3	*	12084.16	-67.75	18.11	-49.64	-30.0	-19.64	peak	

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APPENDIX G: PHOTOGRAPHS OF TEST SETUP

RADIATED SPURIOUS EMISSION TEST



---END OF REPORT---

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