

# RF Test Report

Report No.: AGC00552200101EE07

**PRODUCT DESIGNATION** : Smart Phone  
**BRAND NAME** : CUBOT  
**MODEL NAME** : KINGKONG CS  
**APPLICANT** : Shenzhen Huafurui Technology Co., Ltd.  
**DATE OF ISSUE** : Feb. 27, 2020  
**STANDARD(S)** : EN 301 908-1 V13.1.1(2019-11)  
: EN 301 908-2 V11.1.2 (2017-08)  
**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	/	Feb. 27, 2020	Valid	Initial release



## TABLE OF CONTENTS

<b>1. TEST REPORT CERTIFICATION.....</b>	<b>4</b>
<b>2. GENERAL INFORMATION .....</b>	<b>5</b>
2.1. DESCRIPTION OF EUT.....	5
2.2. TYPE OF PICS/PIXIT INFORMATION .....	6
<b>3. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION.....</b>	<b>7</b>
<b>4. MEASUREMENT UNCERTAINTY.....</b>	<b>9</b>
<b>5. TEST RESULT.....</b>	<b>10</b>
5.1. APPLIED REFERENCE DOCUMENTS .....	10
5.2. TEST ENVIRONMENT/CONDITIONS .....	10
5.3. ITEMS USED IN THE TEST RESULTS LIST .....	11
5.4. TEST RESULTS LIST .....	12
<b>Appendix A. Transmitter maximum output power .....</b>	<b>15</b>
<b>Appendix B. Transmitter minimum output power .....</b>	<b>15</b>
<b>Appendix C. Transmitter spectrum emission mask.....</b>	<b>16</b>
<b>Appendix D. Transmitter adjacent channel leakage power ratio .....</b>	<b>18</b>
<b>Appendix E. Transmitter spurious emissions .....</b>	<b>21</b>
<b>Appendix F. Transmitter maximum output power with HS-DPCCH.....</b>	<b>58</b>
<b>Appendix G. Transmitter spectrum emission mask with HS-DPCCH.....</b>	<b>59</b>
<b>Appendix H. Transmitter adjacent channel leakage power ratio with HS-DPPCH.....</b>	<b>66</b>
<b>Appendix I. Transmitter maximum output power with HS-DPCCH and E-DCH .....</b>	<b>74</b>
<b>Appendix J. Transmitter spectrum emission mask with HS-DPCCH and E-DCH.....</b>	<b>75</b>
<b>Appendix K. Transmitter adjacent channel leakage power ratio with HS-DPPCH and E-DCH.....</b>	<b>83</b>
<b>Appendix L. Receiver spurious emissions .....</b>	<b>93</b>
<b>Appendix M. Receiver channel selectivity(ACS) .....</b>	<b>124</b>
<b>Appendix N. Receiver intermodulation characteristics .....</b>	<b>125</b>
<b>Appendix O. Receiver blocking characteristics .....</b>	<b>126</b>
<b>Appendix P. Out-of-synchronization handling of output power .....</b>	<b>127</b>
<b>Appendix Q. Receiver Reference Sensitivity level .....</b>	<b>128</b>
<b>Appendix R. Receiver Characteristics/Spurious Response .....</b>	<b>129</b>
<b>Appendix S . Radiated spurious emissions - MS in idle mode .....</b>	<b>130</b>
<b>Appendix T. Radiated spurious emissions test result.....</b>	<b>131</b>
<b>APPENDIX U: PHOTOGRAPHS OF TEST SETUP .....</b>	<b>133</b>

## 1. TEST REPORT CERTIFICATION

<b>Applicant</b>	Shenzhen Huafurui Technology Co., Ltd.
<b>Address</b>	Unit 1401 &1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen, P.R. China
<b>Manufacturer</b>	Shenzhen Huafurui Technology Co., Ltd.
<b>Address</b>	Unit 1401 &1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen, P.R. China
<b>Factory Name</b>	Shenzhen Huafurui Technology Co., Ltd.
<b>Address</b>	Unit 1401 &1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen, P.R. China
<b>Product Designation</b>	Smart Phone
<b>Brand Name</b>	CUBOT
<b>Test Model</b>	KINGKONG CS
<b>Date of test</b>	Jan. 15, 2020~Feb. 24, 2020
<b>Deviation</b>	None
<b>Condition of Test Sample</b>	Normal
<b>Report Template</b>	AGCRT-EC-3G1/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/-2. 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. The test results of this report relate only to the tested sample identified in this report.

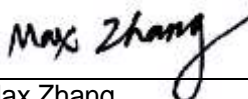
Prepared By



Calvin Liu  
(Project Engineer)

Feb. 24, 2020

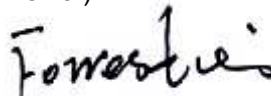
Reviewed By



Max Zhang  
(Reviewer)

Feb. 28, 2020

Approved By



Forrest Lei  
(Authorized Officer)

Feb. 28, 2020



## 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	KINGKONG CS
Product Type	UMTS
Hardware Version	X511 MAIN PCB V1.2
Software Version	King Kong_7081C_V08_20170905
UMTS Frequency Bands	<input checked="" type="checkbox"/> FDD Band I (EU Bands) <input checked="" type="checkbox"/> FDD Band V <input checked="" type="checkbox"/> FDD Band IV <input checked="" type="checkbox"/> FDD Band II (Non-EU Bands)
Modulation Mode	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK
Antenna Type	PIFA antenna
Antenna Gain	1.0dBi
Power Class	FDD Band I:3
GSM Release Version	N/A
SIM Card Description	There are dual-SIM cards, just one for GSM/WCDMA and the other only for GSM.

#### 2.1.2. PHOTOGRAPHS OF THE EUT

Please see APPENX A 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 Huafului Technology Co., Ltd.
Test Model	KINGKONG CS
Product Type	FDD Band I
Frequency Bands	HSDPA:QPSK/16QAM;HSUPA:BPSK WCDMA: QPSK

## 2.2. TYPE OF PICS/PIXIT INFORMATION

Item	Release	FDD (DS) RF Baseline Implementation capabilities	Support	Allowed Value	Comments
1	R99	Chip rate 3.84 Mbps	YES	Yes/No	--
2	R99	Frequency band: 1920-1980, 2110-2170 MHz	YES	Yes/No	Band I
3	R99	Frequency band: 1850-1910, 1930-1990 MHz	NO	Yes/No	Band II
9	R99	UE Power Class 1 (+33 dBm)	NO	Yes/No	--
10	R99	UE Power Class 2 (+27 dBm)	NO	Yes/No	--
11	R99	UE Power Class 3 (+24 dBm)	YES	Yes/No	--
12	R99	UE Power Class 4 (+21 dBm)	NO	Yes/No	--
14	R99	Frequency band: 1710-1785, 1805-1880 MHz	NO	Yes/No	Band III
15	R99	Frequency band: 1710-1755, 2110-2155 MHz	NO	Yes/No	Band IV
16	R99	Frequency band: 824-849, 869-894 MHz	NO	Yes/No	Band V
17	R99	Frequency band: 830-840, 875-885 MHz	NO	Yes/No	Band VI
18	R99	Frequency band: 2500-2570, 2620-2690 MHz	NO	Yes/No	Band VII
19	R99	Frequency band: 880-915, 925-960 MHz	NO	Yes/No	Band VIII
20	R99	Frequency band: 1749.9-1784.9, 1844.9-1879.9 MHz	NO	Yes/No	Band IX
21	R99	Frequency band: 1710-1770, 2110-2170 MHz	NO	Yes/No	Band X
22	R99	Frequency band: 1427.9-1452.9, 1475.9-1500.9 MHz	NO	Yes/No	Band XI
23	R99	Frequency band: 698-716, 728-746 MHz	NO	Yes/No	Band XII
24	R99	Frequency band: 777-787, 746-756 MHz	NO	Yes/No	Band XIII
25	R99	Frequency band: 788-798, 758-768 MHz	NO	Yes/No	Band XIV



### 3. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

<b>Test Site-1</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China

Note: adjacent channel selectivity, blocking characteristics, intermodulation characteristics of receiver test within the scope of TAF approval.

#### LIST OF EQUIPMENTS USED OF AGC

No.	Type	Manufacturer	S/N	Cal. Date	Cal. Due
1	H & T Chamber ETH225-40A	Test EQ	WIT-05121302	Feb. 27, 2019	Feb. 26, 2020
2	CMU200	R&S	120237	Feb. 27, 2019	Feb. 26, 2020
3	Wireless communication test set 8960	Agilent	GB46200384	July 11, 2019	July 10, 2020
4	Power Splitter 11636A	Agilent	34	Sep.18, 2019	Sep.17, 2020
5	Attenuator	JFW	50FHC-006-50	June 12, 2019	June 11, 2020
6	Vector Signal Generator SMU200A	R&S	104332	Sep.18, 2019	Sep.17, 2020
7	VECTOR ANALYZER E4440A	Agilent	MY44303916	June 12, 2019	June 11, 2020
8	MXG Vector Signal Generator N5182A	AGILENT	MY50140530	Sep.18, 2019	Sep.17, 2020
9	PSG Analog Signal Generator E8257D	AGILENT	MY45141029	Sep.18, 2019	Sep.17, 2020
10	MXA Signal Analyzer N9020A	AGILENT	W1312-60196	Oct. 08, 2019	Oct. 07, 2020
11	Universal Switch Control Unit	JS TONSCEND	N/A	---	---
12	Programmable Power Supply PPT-1830	GW INSTEK	EM907629	Aug.16, 2019	Aug.15, 2020
13	DC Power Source	N/A	GBD-60V30A	Feb. 27, 2019	Feb. 26, 2020
14	Attenuator	JFW	50FHC-006-50	June 12, 2019	June 11, 2020
15	EMI Test Receiver ESCI	R&S	10096	June 12, 2019	June 11, 2020
16	Double-Ridged Waveguide Horn Antenna 3117	ETS LINDGREN	00034609	Mar. 01, 2018	Feb. 28, 2020
17	Trilog Broadband Antenna VULB 9168	SCHWARZBEC K	494	Mar. 01, 2018	Feb. 28, 2020
18	LOOP ANTENNA SAS-562B	A.H	/	Mar. 01, 2018	Feb. 28, 2020



No.	Type	Manufacturer	S/N	Cal. Date	Cal. Due
19	Artificial Mains Network ENV4200	R&S	101116	July 11, 2019	July 10, 2020
20	Artificial Mains Network ENV216	R&S	101242	July 11, 2019	July 10, 2020
21	Filter Bank Notch 1(880-915MHz)	MICRO-TRONI CS	010	Feb. 27, 2019	Feb. 26, 2020
22	Filter Bank Notch 2(1710-1785MHz)	MICRO-TRONI CS	009	Feb. 27, 2019	Feb. 26, 2020
23	Filter Bank Notch 3(1920-1980MHz)	MICRO-TRONI CS	008	Feb. 27, 2019	Feb. 26, 2020



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#### 4. MEASUREMENT UNCERTAINTY

Parameter	Conditions	Test System Uncertainty
Transmitter Maximum Output power	--	±0,6dB
Transmitter spectrum emissions mask	--	±1,4 dB
Transmitter spurious emissions	$f \leq 2,2 \text{ GHz}$ $2,2 \text{ GHz} < f \leq 4 \text{ GHz}$ $f > 4 \text{ GHz}$ Co-existence band ( $\geq -60 \text{ dBm}$ ) Co-existence band ( $< -60 \text{ dBm}$ )	±1,35 dB ±1.8 dB ±3.5 dB ±1.8 dB ±2.7 dB
Transmitter Minimum output power	--	±0.8 dB
Receiver Adjacent Channel Selectivity(ACS)	--	±0.9 dB
Receiver Blocking characteristics	$f < 15 \text{ MHz offset:}$ $15 \text{ MHz offset} \leq f \leq 2,2 \text{ GHz}$ $2,2 \text{ GHz} < f \leq 4 \text{ GHz}$ $f > 4 \text{ GHz}$	±1,1 dB ±0.8 dB ±1,5 dB ±2.9 dB
Receiver spurious response	$f \leq 2,2 \text{ GHz}$ $2,2 \text{ GHz} < f \leq 4 \text{ GHz}$ $f > 4 \text{ GHz}$	±0.8 dB ±1,5 dB ±2.9 dB
Receiver intermodulation characteristics	--	±1,2 dB
Receiver spurious emissions	For UE receive band (-60 dBm) For UE transmit band (-60 dBm) Outside the UE receive band: $f \leq 2,2 \text{ GHz}$ $2,2 \text{ GHz} < f \leq 4 \text{ GHz}$ $f > 4 \text{ GHz}$	±2.8 dB ±2.9 dB ±1.8 dB ±1.7 dB ±3.6 dB
Out of synchronization of handing power	DPCCH Ec/Ior Transmit OFF power	±0,3 dB ±0.8 dB
Transmitter adjacent channel leakage power ratio	--	±0,7 dB
Effective radiated RF power between 30 MHz and 180 MHz	--	±5 dB
Effective radiated RF power between 180 MHz and 12,75 GHz	--	±2 dB
Conducted RF power	--	±0.9 dB

## 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 301 908-2	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)

Specific reference documents for testing:

No.	Identity	Document Title
3	3GPP TS 34.121-1	3rd Generation Partnership Project; Technical Specification Group Radio Access Network ; Terminal conformance specification; Radio transmission and reception (FDD)
4	3GPP TS 34.121-2	3rd Generation Partnership Project; Technical Specification Group Radio Access Network User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 2: Implementation Conformance Statement (ICS)

### 5.2. TEST ENVIRONMENT/CONDITIONS

Normal Temperature (NT)	15 ... 35 °C
Relative Humidity	30 ... 75 %
Air Pressure	980 ... 1020 kPa
Adapter Test Model Name	HJ-05010003B3-EU
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) = -10°C High Temperature (TH) = +40°C
Extreme Voltage of the EUT	Low Voltage = DC 3.23V Normal Voltage= DC 3.8V High Voltage = DC 4.35V

**Note:** The Limit Voltage 4.35V was declared by manufacturer,  
The EUT couldn't be operate normally with higher voltage.

The maximum temperature of 40 is not a standard requirement and is measured according to the maximum service temperature stated by the manufacturer.

### 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



#### 5.4. TEST RESULTS LIST

##### ETSI EN 301 908-1

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



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**ETSI EN 301 908-2**

Test case	Description	Condition	FDDI	
			Sample	Result
4.2.2	Transmitter Characteristics/Maximum Output Power	NTC	A01	PASS
4.2.2	Transmitter Characteristics/Maximum Output Power	HT/HV	A01	PASS
4.2.2	Transmitter Characteristics/Maximum Output Power	HT/LV	A01	PASS
4.2.2	Transmitter Characteristics/Maximum Output Power	LT/HV	A01	PASS
4.2.2	Transmitter Characteristics/Maximum Output Power	LT/LV	A01	PASS
4.2.5	Transmitter Characteristics/Output Dynamics in the Uplink/Minimum Output Power	NTC	A01	PASS
4.2.5	Transmitter Characteristics/Output Dynamics in the Uplink/Minimum Output Power	HTHV	A01	PASS
4.2.5	Transmitter Characteristics/Output Dynamics in the Uplink/Minimum Output Power	HTLV	A01	PASS
4.2.5	Transmitter Characteristics/Output Dynamics in the Uplink/Minimum Output Power	LT/HV	A01	PASS
4.2.5	Transmitter Characteristics/Output Dynamics in the Uplink/Minimum Output Power	LT/LV	A01	PASS
4.2.11	Transmitter Characteristics/Output Dynamics in the Uplink/Out-of-synchronization Handling of Output power	NTC	A01	PASS
4.2.3	Transmitter Characteristics/Spectrum Emission Mask	NTC	A01	PASS
4.2.3	Transmitter Characteristics/Spectrum Emission Mask-HSDPA&HSUPA	NTC	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)	NTC	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)	HT/HV	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)	HT/LV	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)	LT/HV	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)	LT/LV	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)	NTC	A01	PASS


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	Leakage Power Ratio (ACLR)-- HSDPA&HSUPA			
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)-- HSDPA&HSUPA	HT/HV	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)-- HSDPA&HSUPA	HT/LV	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)-- HSDPA&HSUPA	LT/HV	A01	PASS
4.2.12	Transmitter Characteristics/Adjacent Channel Leakage Power Ratio (ACLR)-- HSDPA&HSUPA	LT/LV	A01	PASS
4.2.4	Transmitter Characteristics/Spurious Emissions	NTC	A01	PASS
4.2.6	Receiver Characteristics/Adjacent Channel Selectivity (ACS)	NTC	A01	PASS
4.2.7	Receiver Characteristics/Blocking Characteristics	NTC	A01	PASS
4.2.8	Receiver Characteristics/Spurious Response	NTC	A01	PASS
4.2.9	Receiver Characteristics /Intermodulation Characteristics	NTC	A01	PASS
4.2.10	Receiver Characteristics/Spurious Emissions	NTC	A01	PASS
4.2.13	Receiver Reference Sensitivity level	NTC	A01	PASS

**Note:** The test result is SIM Card 1 ( only SIM Card 1 support WCDMA ) and recorded in the test report.

## Appendix A. Transmitter maximum output power

Note: All test modes were carried out for all operation modes and record the worst test mode (BAND I TNVN) of fellow:

Operating Band	Test Conditions	Test Channel	Measurement Data(dBm)	Limit(dBm)	Result
Band I	TNVN	LCH	22.59	24(+1.7/-3.7)	Pass
		MCH	24.36	24(+1.7/-3.7)	Pass
		HCH	23.90	24(+1.7/-3.7)	Pass

## Appendix B. Transmitter minimum output power

Note: All test modes were carried out for all operation modes and record the worst test mode (BAND I TNVN) of fellow:

Operating Band	Test Conditions	Test Channel	Measurement Data(dBm)	Limit(dBm)	Result
Band I	TNVN	LCH	-56.55	-49	Pass
		MCH	-55.36	-49	Pass
		HCH	-55.87	-49	Pass





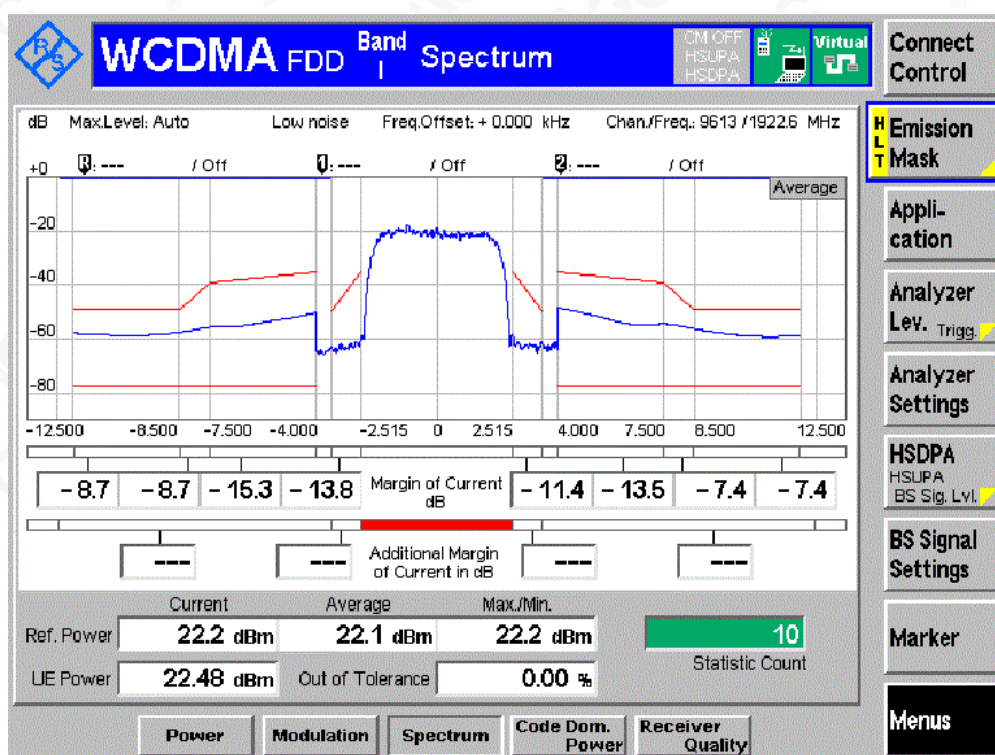
## Appendix C. Transmitter spectrum emission mask

### BAND I

Operating Band	Test Conditions	$\Delta f$ in MHz	Test Channel		
			LCH	MCH	HCH
Band I	TNVN	2.5-3.5	PASS	PASS	PASS
		3.5-7.5			
		7.5-8.5			
		8.5-12.5 MHz			

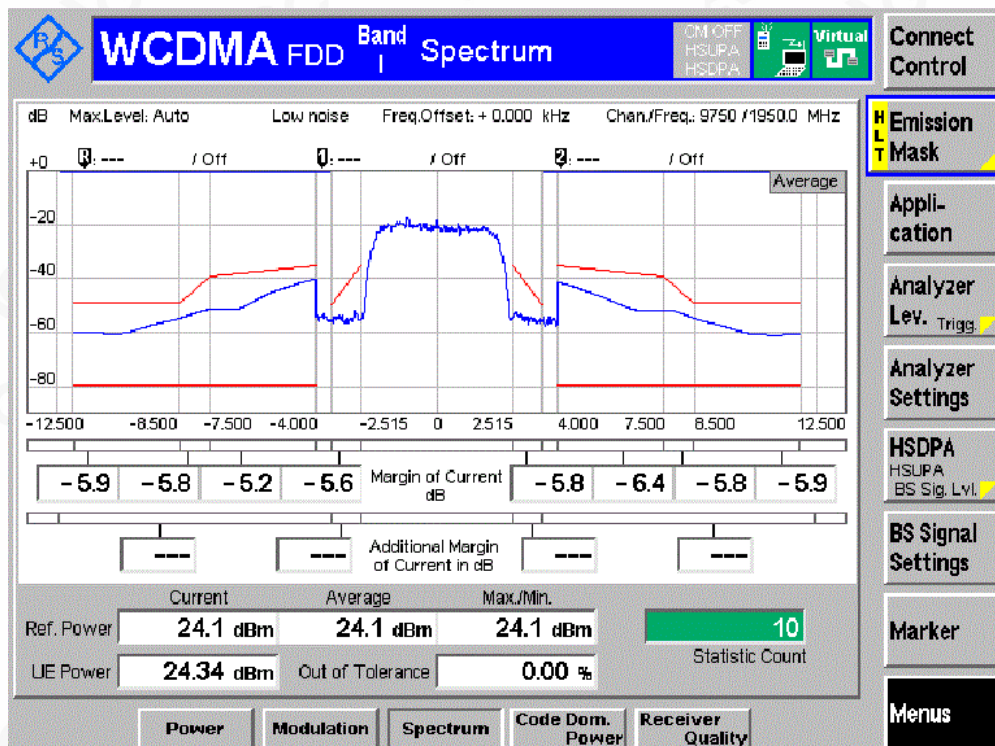
### BAND I

#### Channel LCH

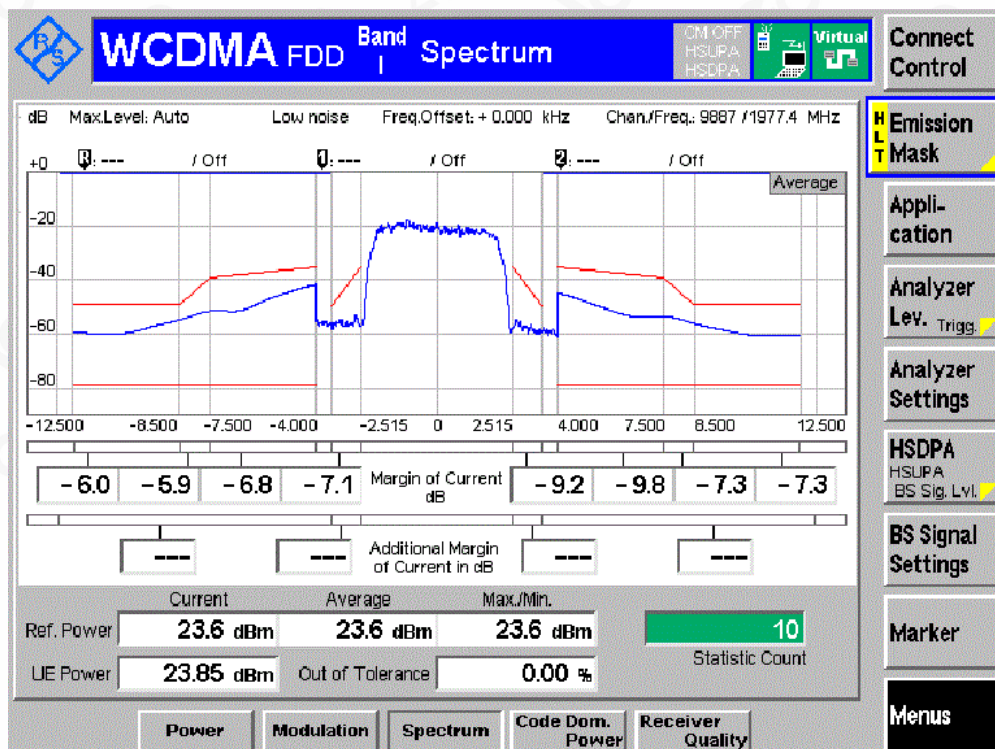




### Channel MCH



### Channel HCH



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## Appendix D. Transmitter adjacent channel leakage power ratio

Note: All test modes were carried out for all operation modes and record the worst test mode (BAND I TNVN) of fellow:

Operating Band	Test Conditions	Test Channel	UE Channel	Measurement Data(dBm)	Limit(dBm)	Result
Band I	TNVN	LCH	+5MHz	-45.27	-32.2	Pass
			-5 MHz	-46.55	-32.2	Pass
			-10 MHz	-52.95	-42.2	Pass
			+10 MHz	-52.63	-42.2	Pass
		MCH	+5MHz	-38.76	-32.2	Pass
			-5 MHz	-37.58	-32.2	Pass
			-10 MHz	-52.58	-42.2	Pass
			+10 MHz	-52.81	-42.2	Pass
		HCH	+5MHz	-41.25	-32.2	Pass
			-5 MHz	-38.26	-32.2	Pass
			-10 MHz	-52.51	-42.2	Pass
			+10 MHz	-53.46	-42.2	Pass

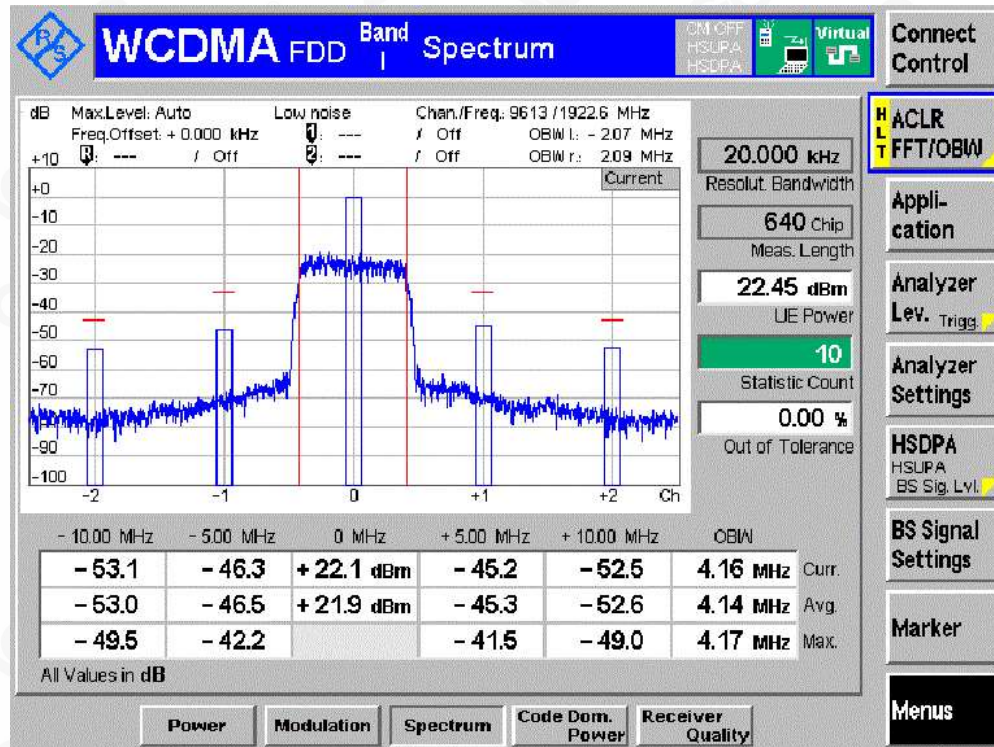




# BAND I

TNVN

Channel LCH



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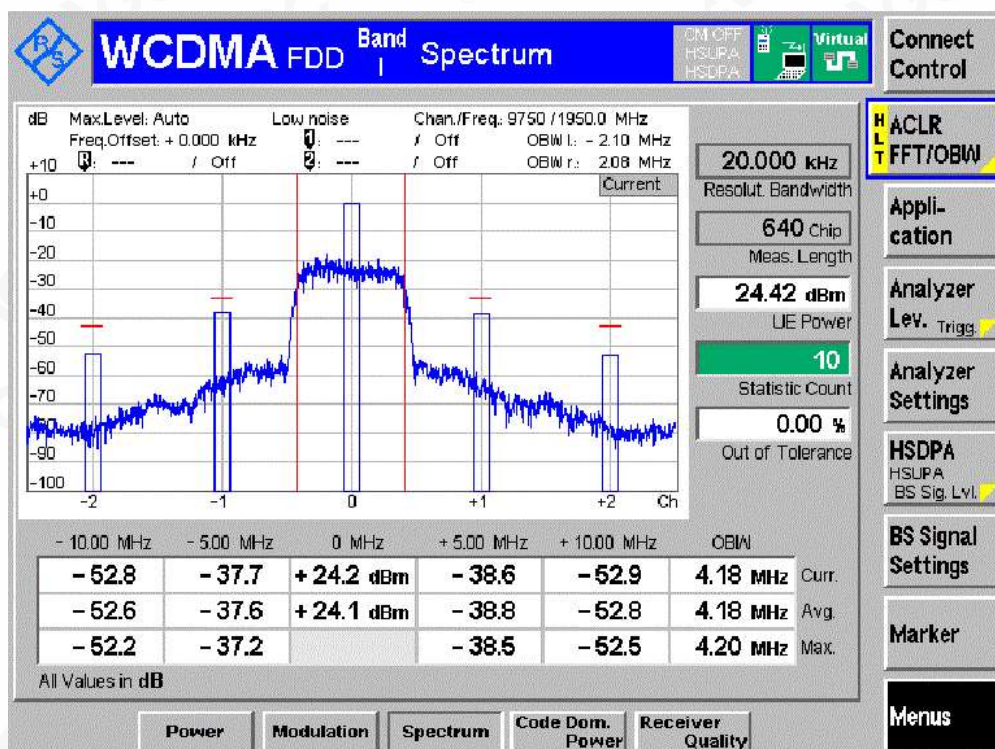
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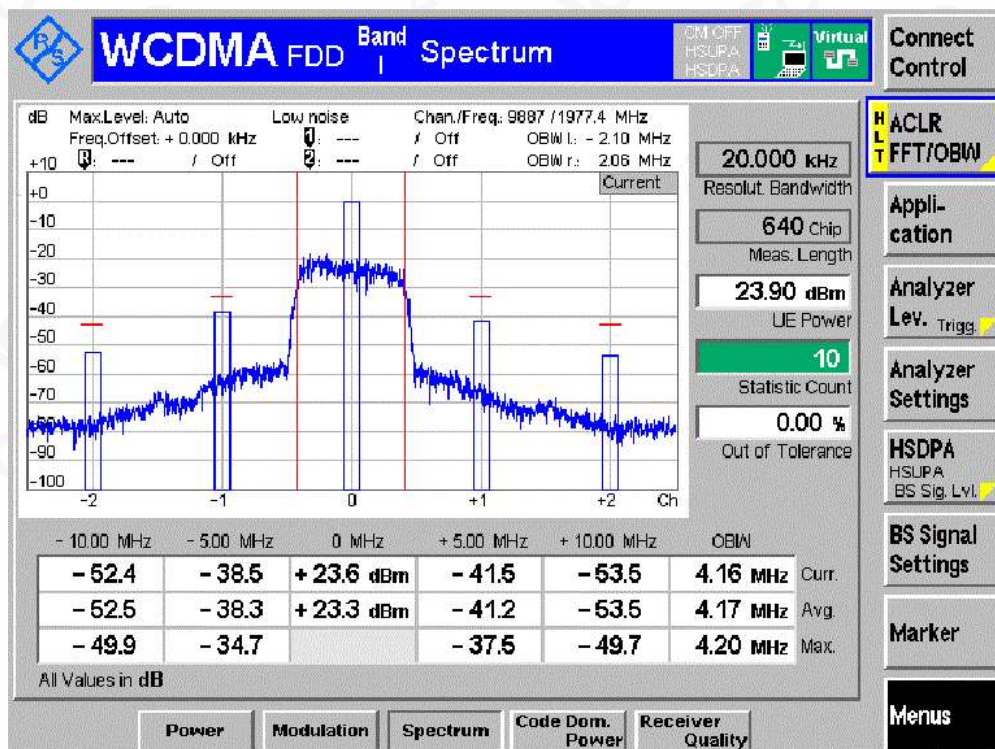
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### Channel MCH



### Channel HCH



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## Appendix E. Transmitter spurious emissions

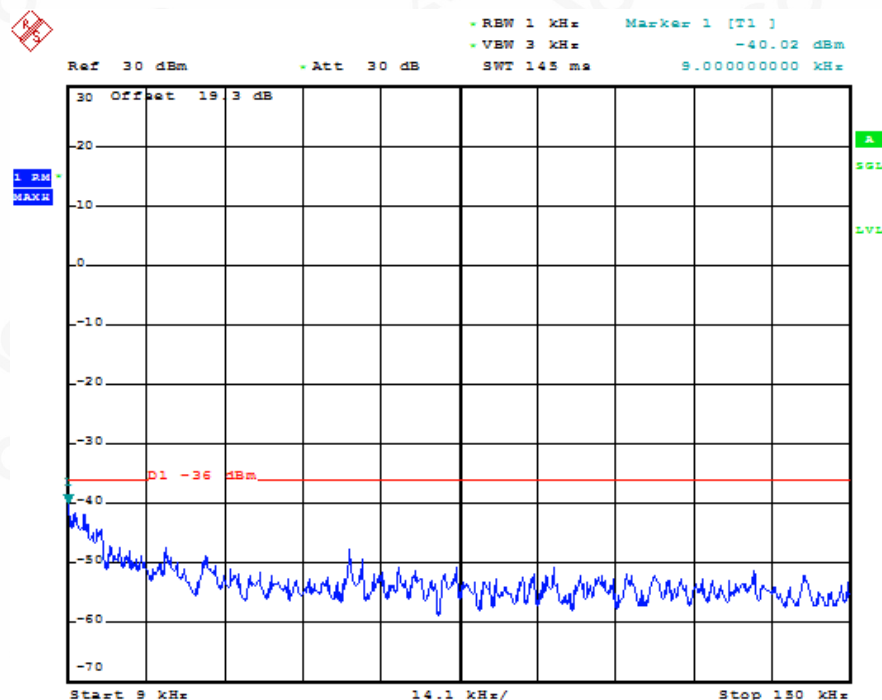
Note: All test modes were carried out for all operation modes and record the worst test mode (BAND I TNVN) of fellow:

Frequency	RBW	Max. Level	Test Band=Band I			Result
			Test Conditions=TNVN			
			Test Channel			
			LCH	MCH	HCH	
9 kHz ≤f < 150 kHz	1 kHz	-36	-40.02	-39.70	-40.07	Pass
150 kHz ≤f < 30 MHz	10 kHz	-36	-38.18	-37.18	-37.19	Pass
30 MHz ≤f < 1 000 MHz	100 kHz	-36	-55.36	-55.18	-55.20	Pass
1 GHz ≤f < 12,75 GHz	1 MHz	-30	-35.50	-35.57	-35.48	Pass
791 MHz ≤f ≤821 MHz	3,84 MHz	-60	-67.69	-67.69	-67.70	Pass
921 MHz ≤f < 925 MHz	100 kHz	-60	-60.14	-60.09	-60.28	Pass
925 MHz ≤f ≤935 MHz	100 kHz	-67	-68.50	-68.41	-68.49	Pass
935 MHz < f ≤960 MHz	100 kHz	-79	-87.33	-87.25	-87.31	Pass
1 805 MHz ≤f ≤1 880 MHz	100 kHz	-71	-81.10	-80.92	-81.15	Pass
2 110 MHz ≤f ≤2 170 MHz	3,84 MHz	-60	-66.24	-66.18	-66.18	Pass
2 585 MHz ≤f ≤2 690 MHz	3,84 MHz	-60	-61.62	-61.61	-61.61	Pass

## BAND I

Channel LCH

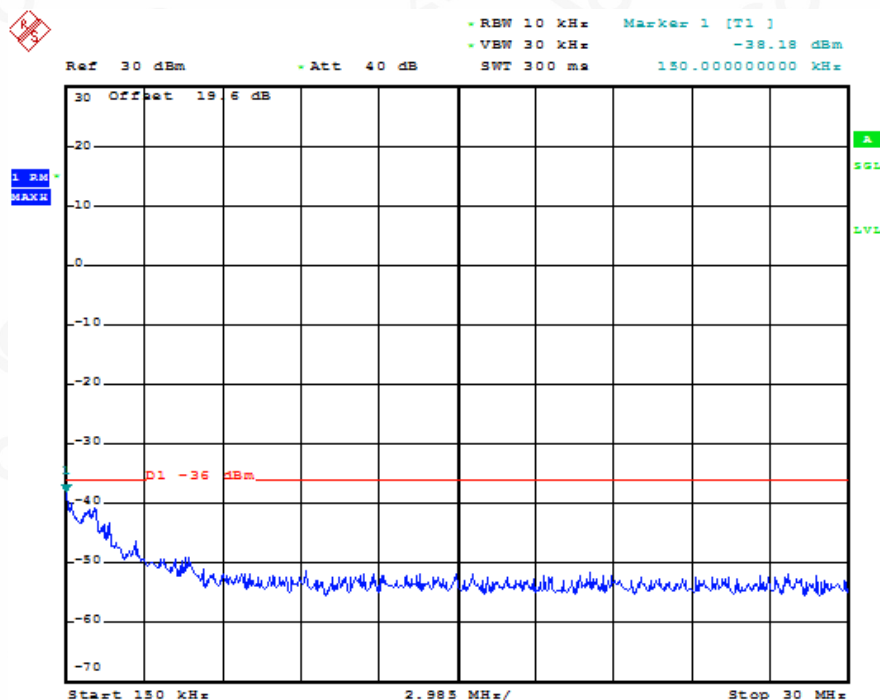
9KHZ~150KHZ



AAA

Date: 16.JAN.2020 09:20:23

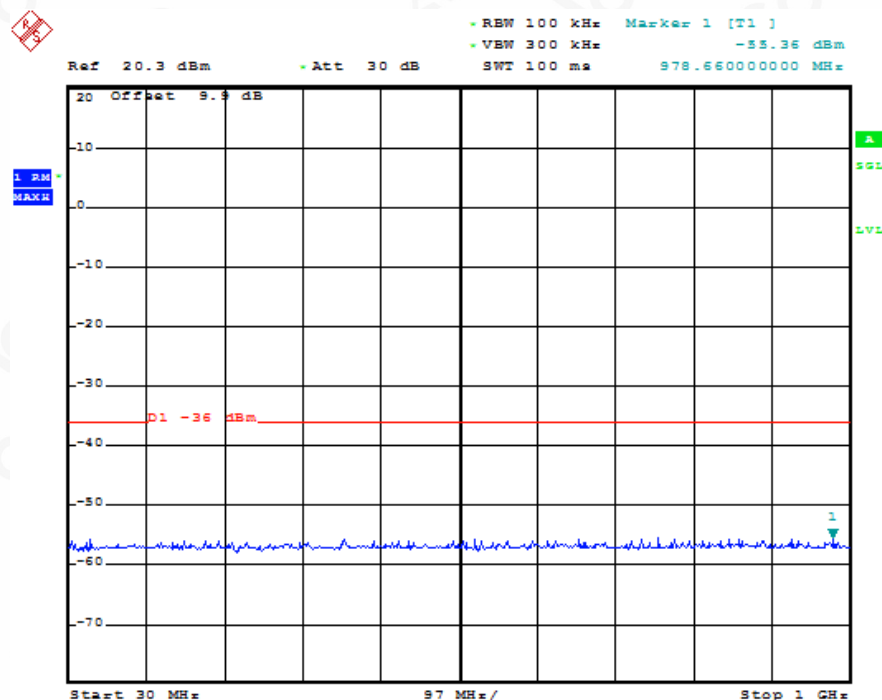
150KHZ~30MHZ



AAA

Date: 16.JAN.2020 09:20:36

30MHZ-1GHZ

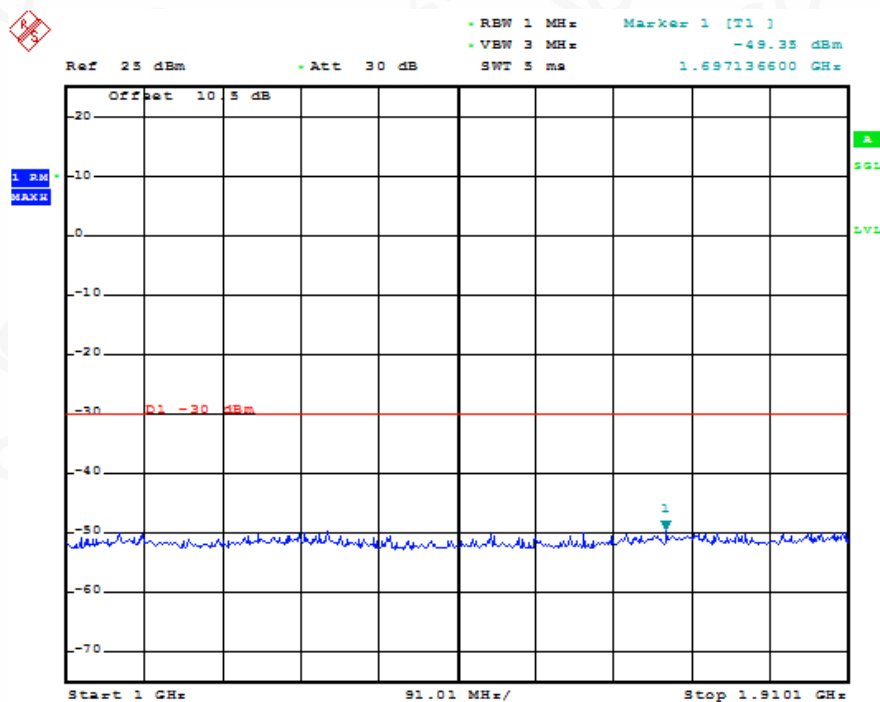


AAA

Date: 16.JAN.2020 09:20:49

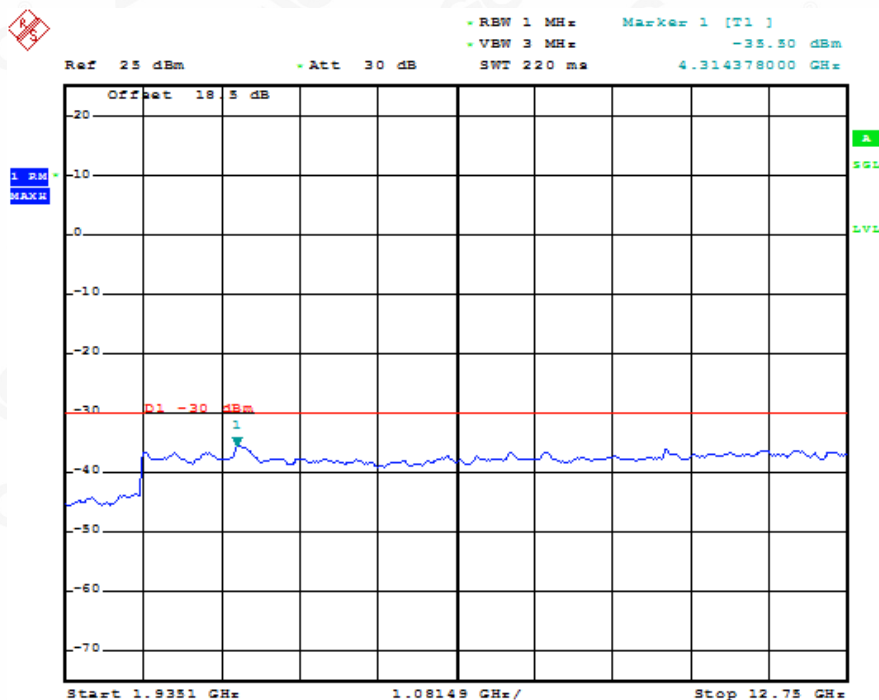


1GHZ-12.75GHZ



AAA

Date: 16.JAN.2020 09:21:01



AAA

Date: 16.JAN.2020 09:21:14



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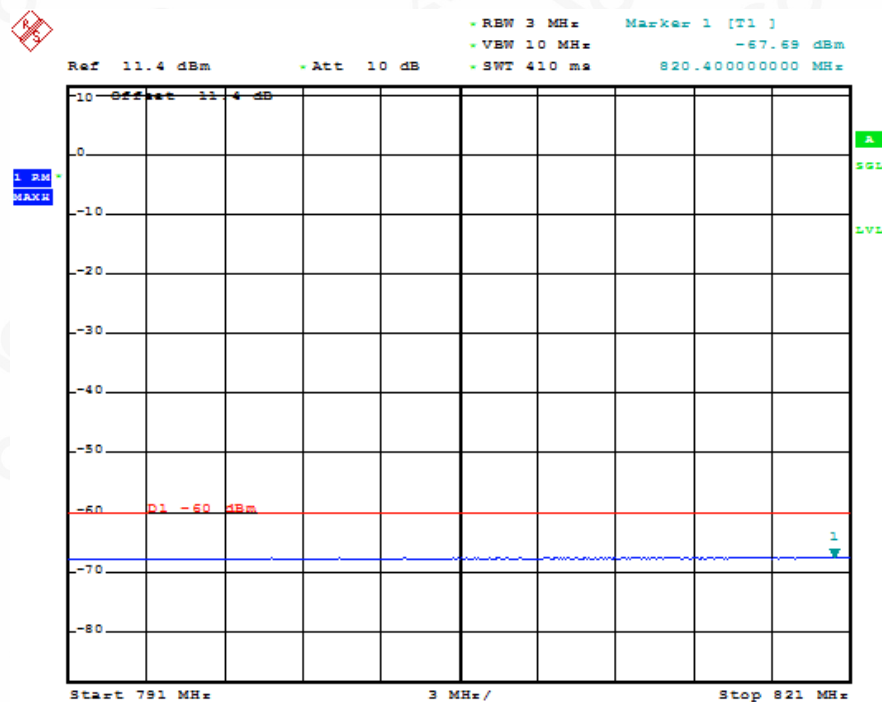
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
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791MHZ~821MHZ

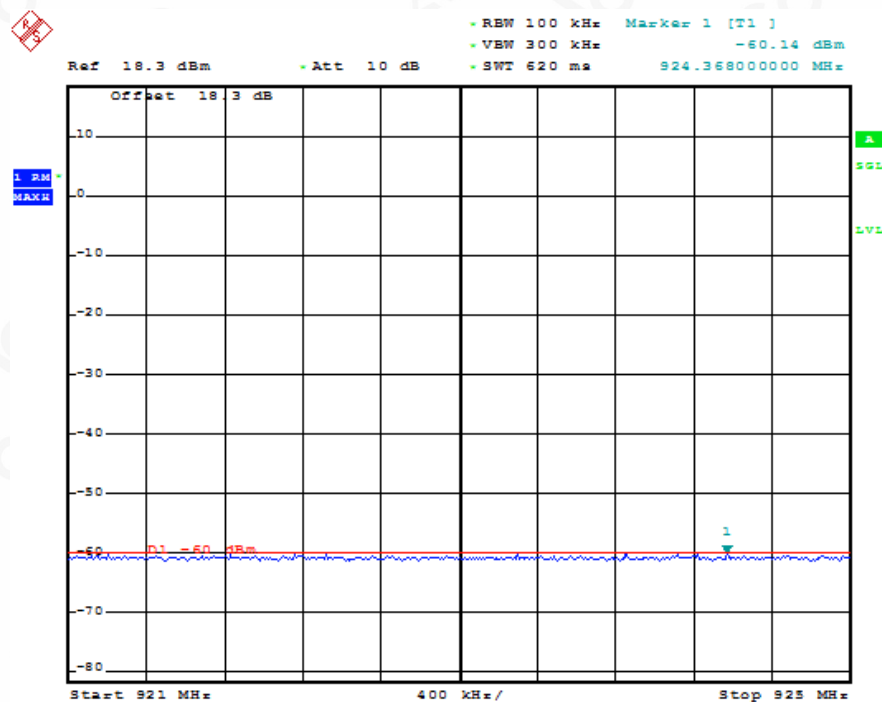


AAA

Date: 16.JAN.2020 09:21:48



921MHZ~925MHZ



AAA

Date: 16.JAN.2020 09:22:44



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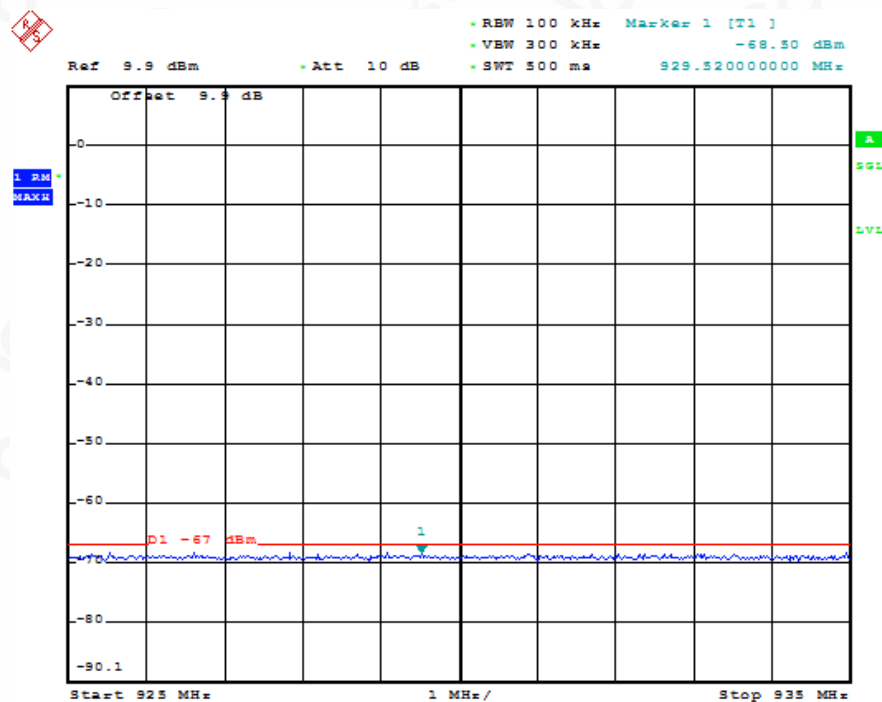
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

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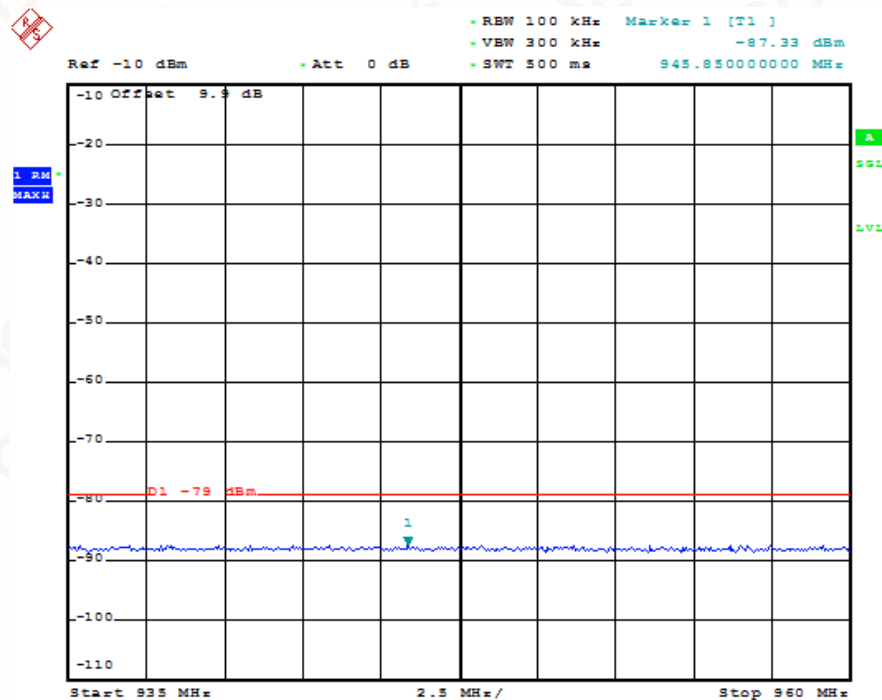
925MHZ~935MHZ



AAA

Date: 16.JAN.2020 09:23:29

935MHZ~960MHZ

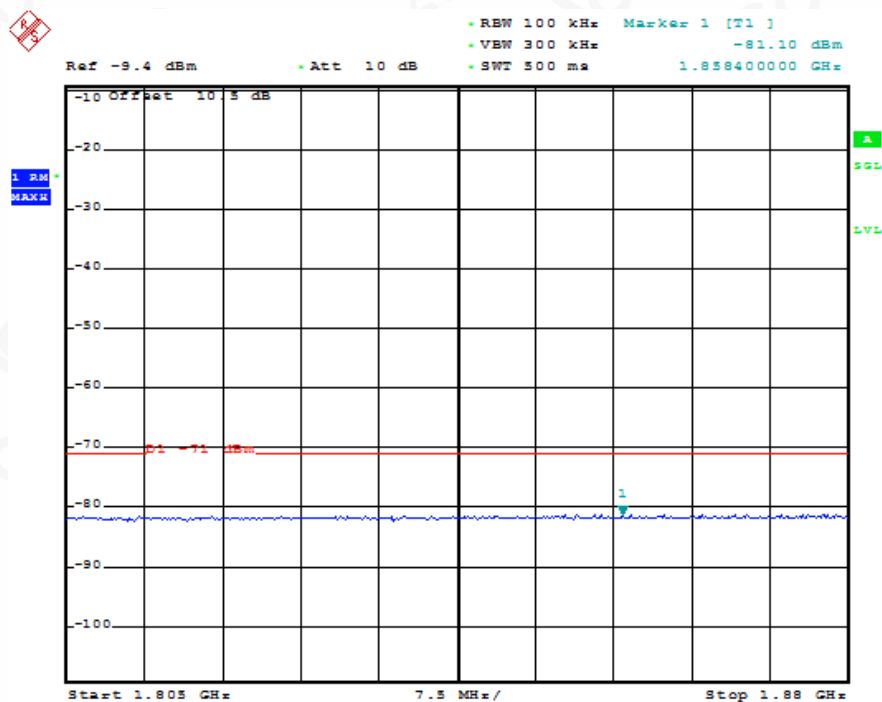


AAA

Date: 16.JAN.2020 09:23:41



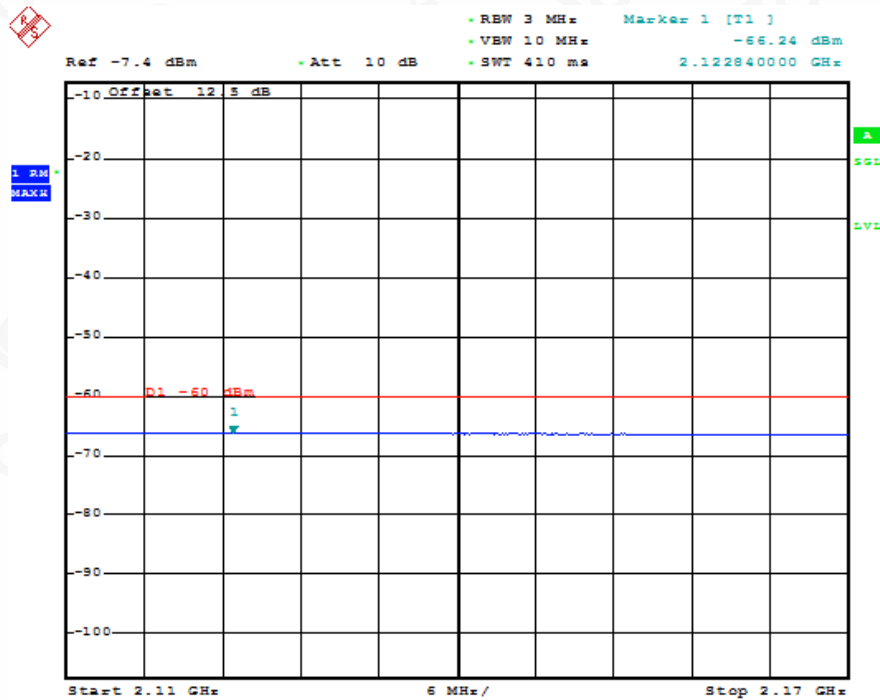
1805MHZ~1880MHZ



AAA

Date: 16.JAN.2020 09:23:54

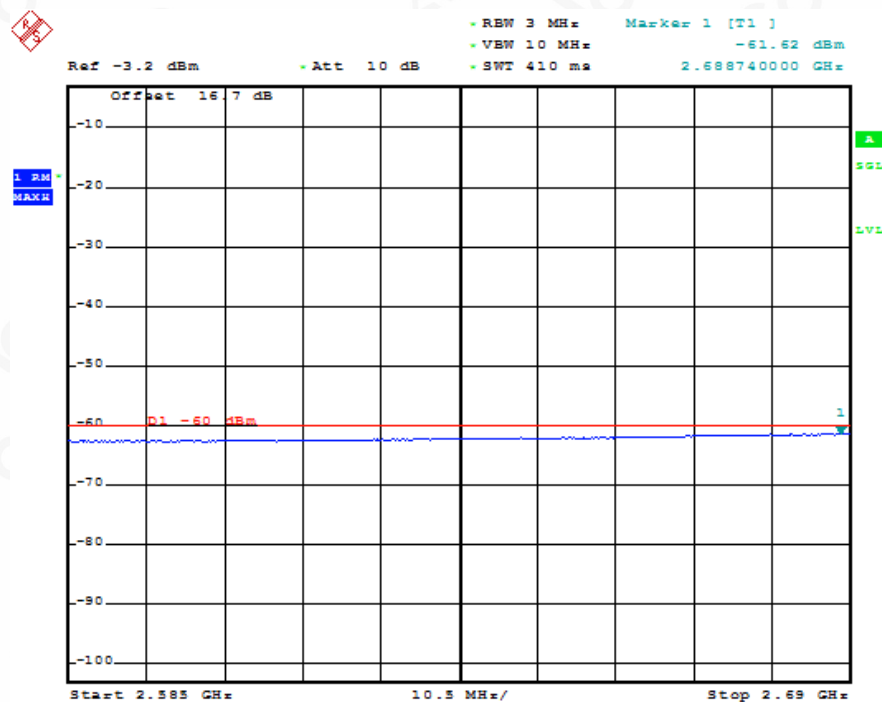
2110MHZ~2170MHZ



AAA

Date: 16.JAN.2020 09:24:28

2585MHZ~2690MHZ

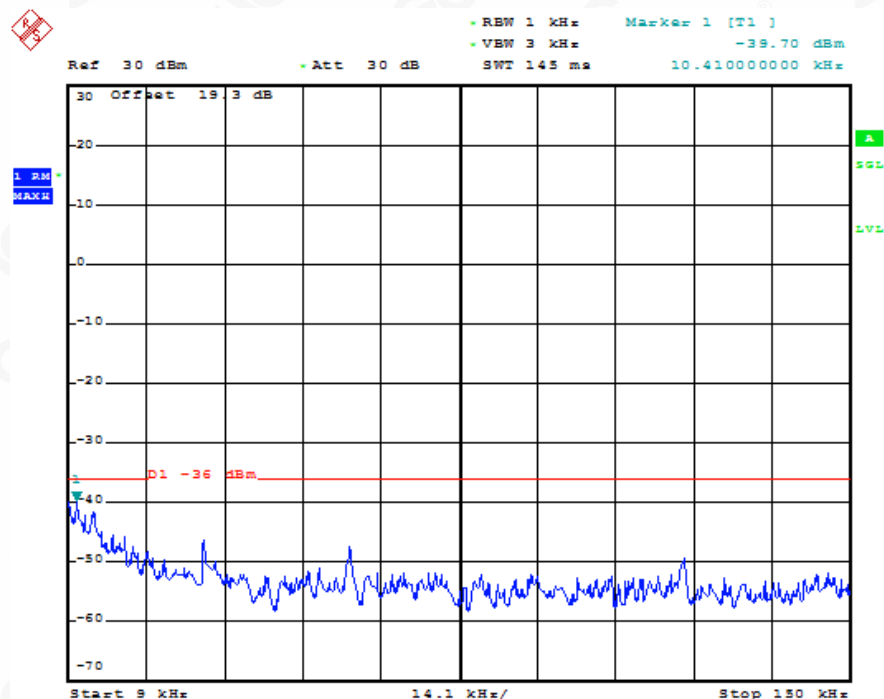


AAA

Date: 16.JAN.2020 09:25:24



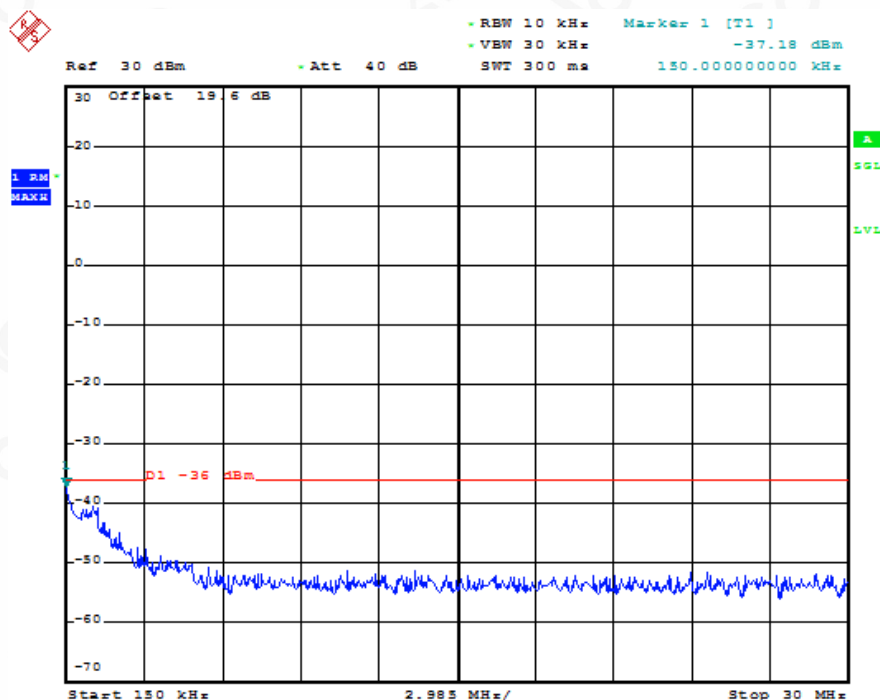
**Channel MCH**  
9KHZ~150KHZ



AAA

Date: 16.JAN.2020 09:25:45

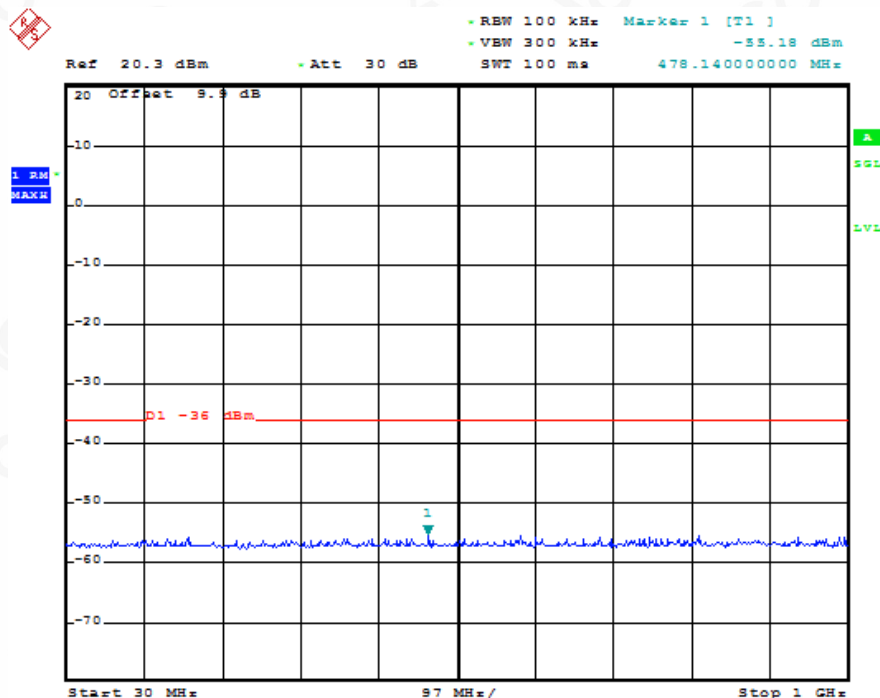
150KHZ~30MHZ



AAA

Date: 16.JAN.2020 09:25:58

30MHZ-1GHZ

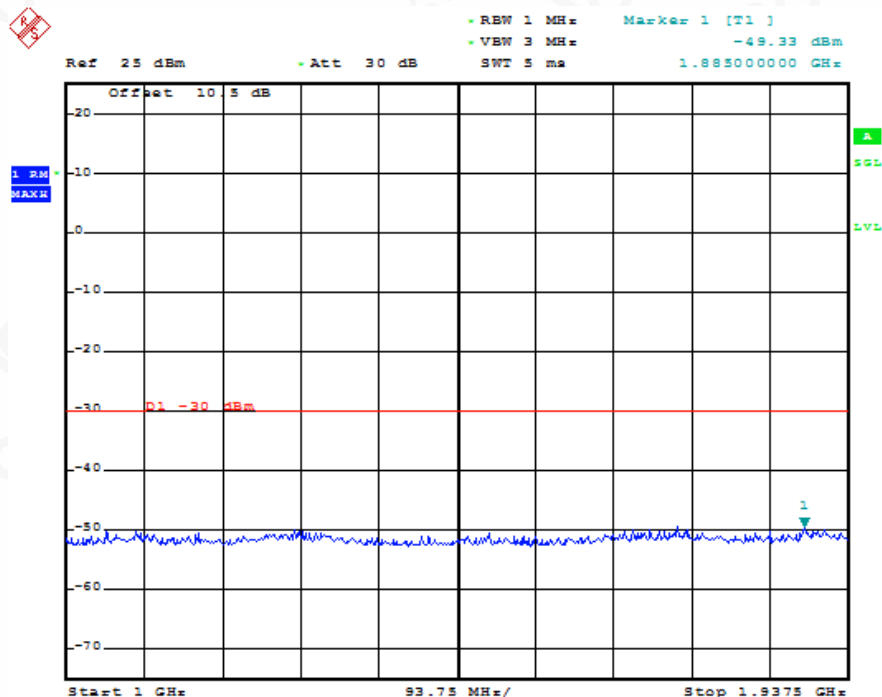


AAA

Date: 16.JAN.2020 09:26:10

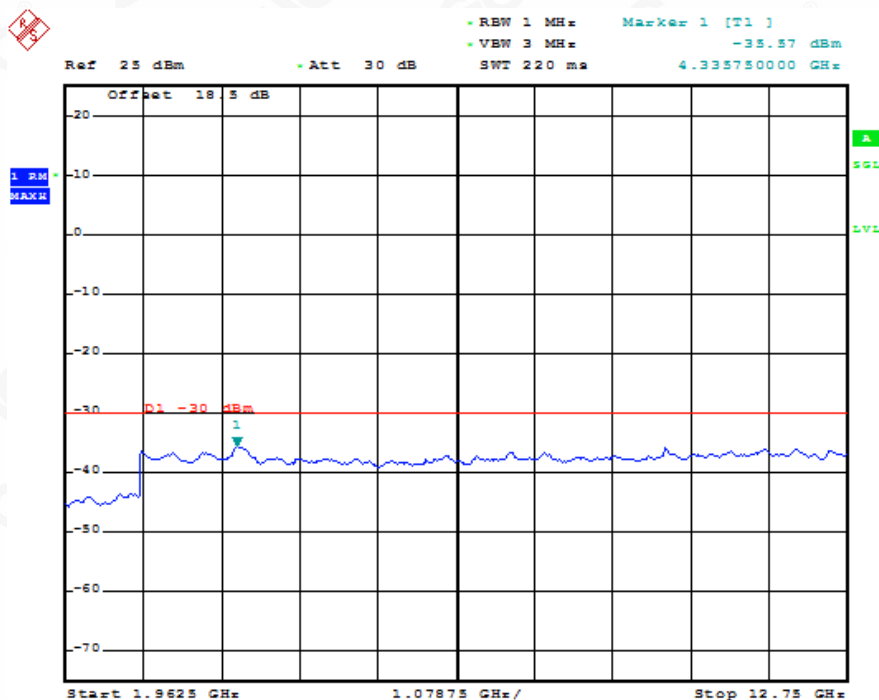


1GHZ~12.75GHZ



AAA

Date: 16.JAN.2020 09:26:23



AAA

Date: 16.JAN.2020 09:26:35



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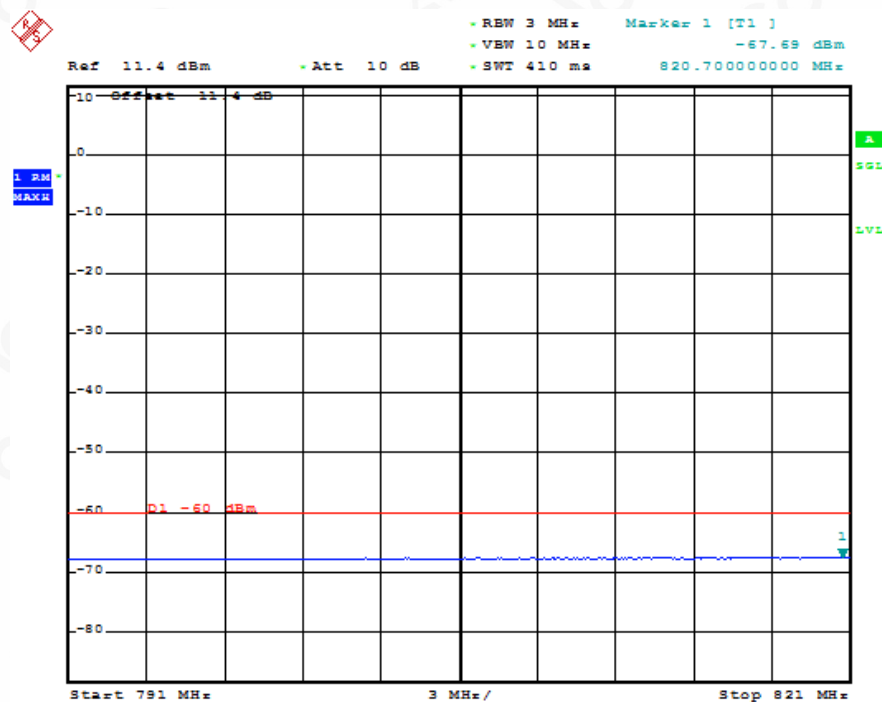
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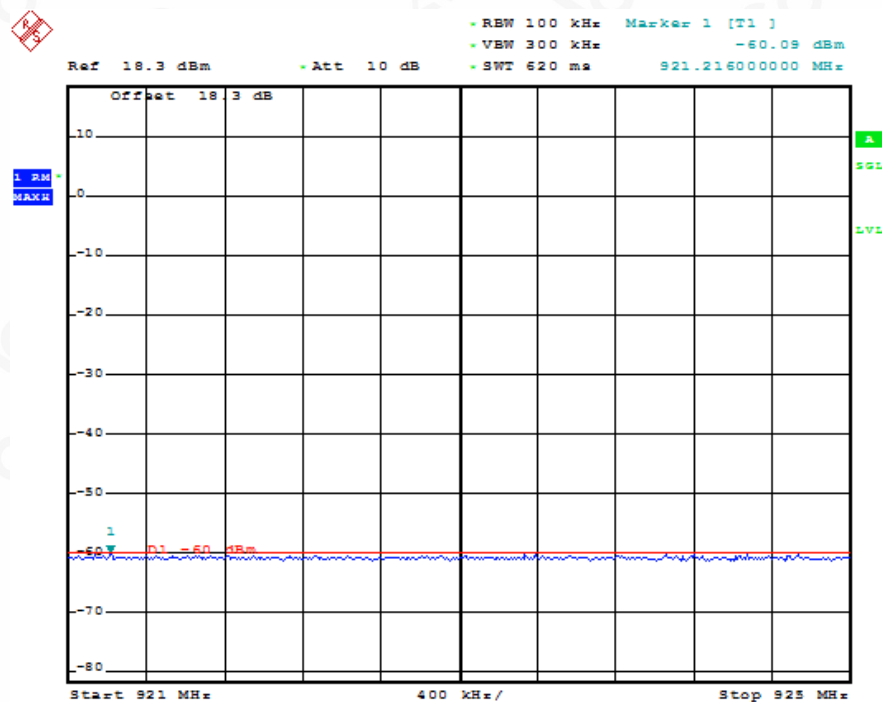
791MHZ~821MHZ



AAA

Date: 16.JAN.2020 09:27:09

921MHZ~925MHZ

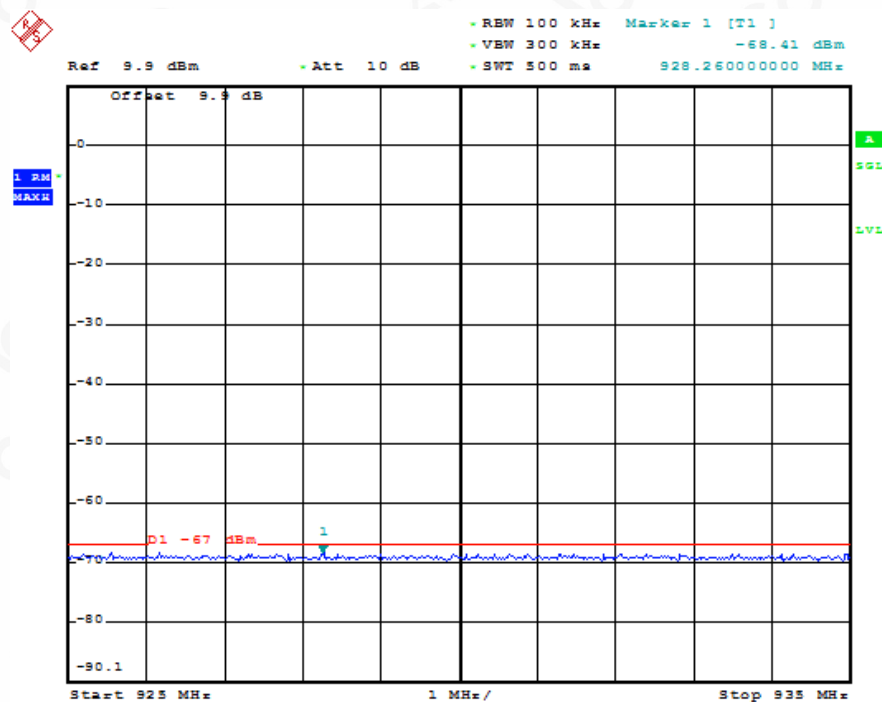


AAA

Date: 16.JAN.2020 09:28:05



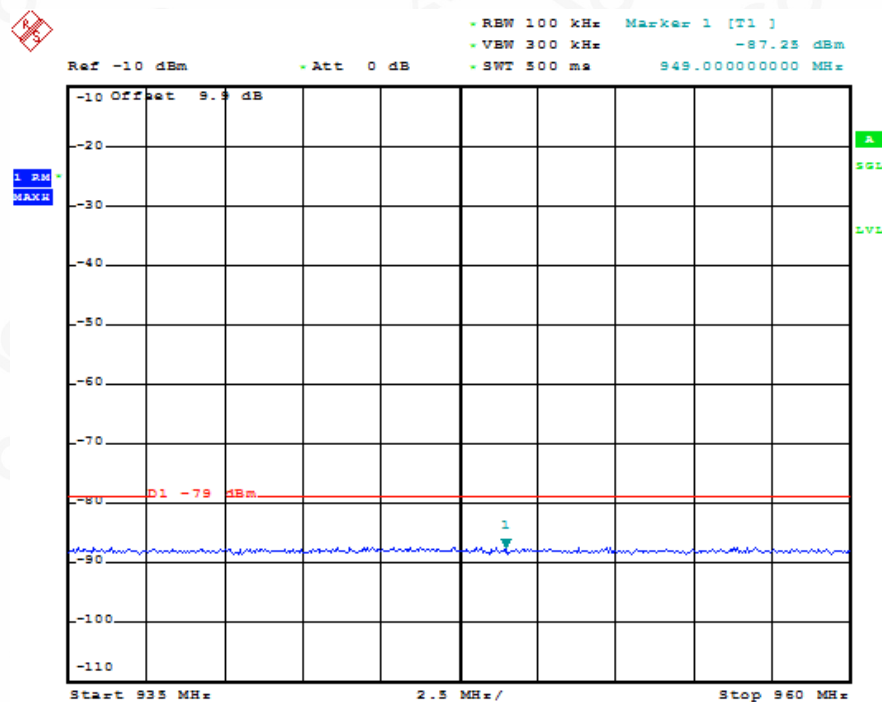
925MHZ~935MHZ



AAA

Date: 16.JAN.2020 09:28:50

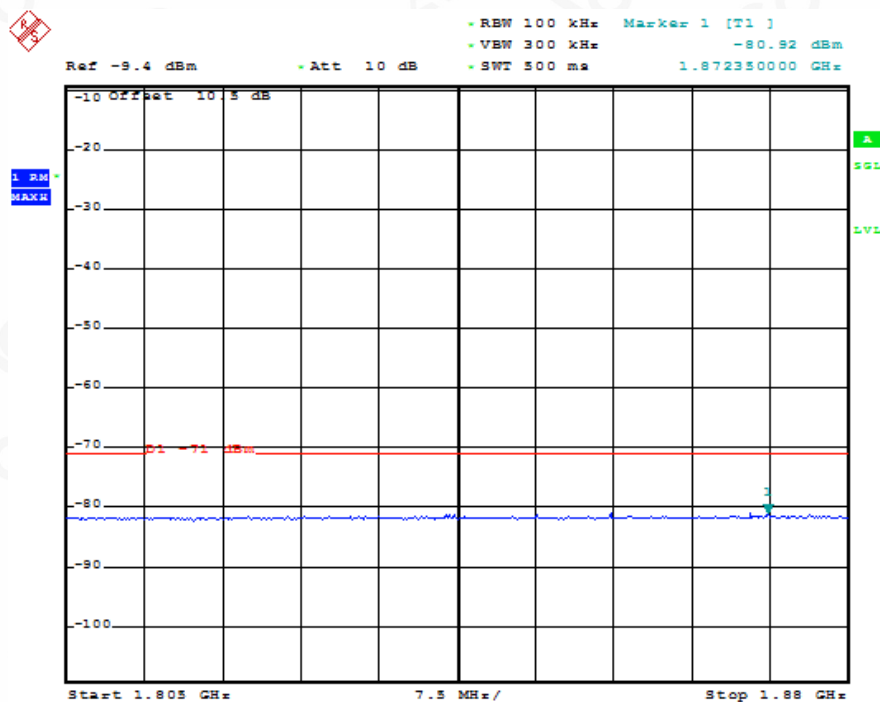
935MHZ~960MHZ



AAA

Date: 16.JAN.2020 09:29:03

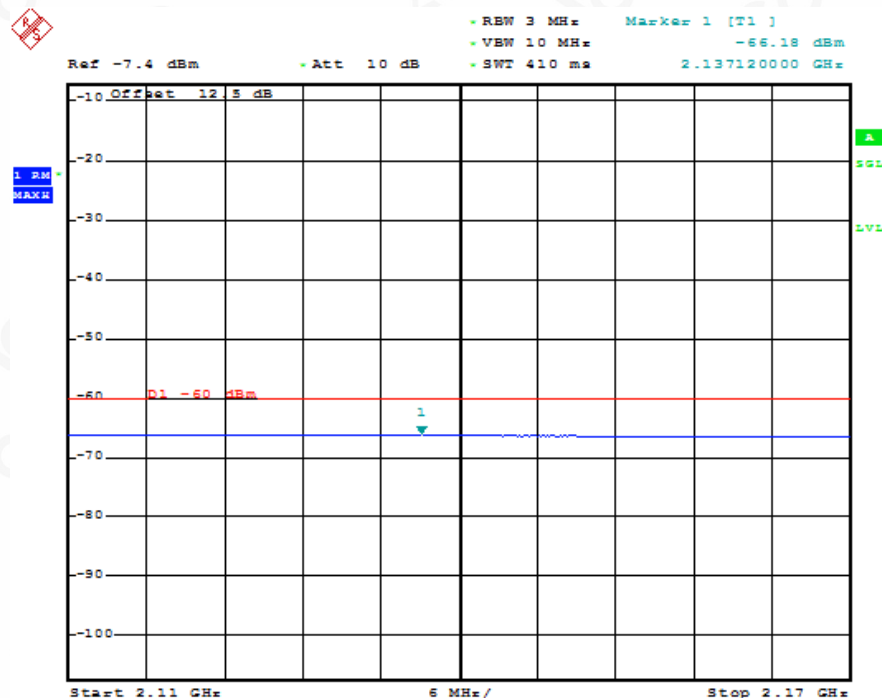
1805MHZ~1880MHZ



AAA

Date: 16.JAN.2020 09:29:15

2110MHZ~2170MHZ



AAA

Date: 16.JAN.2020 09:29:49





Date: 16.JAN.2020 09:30:45



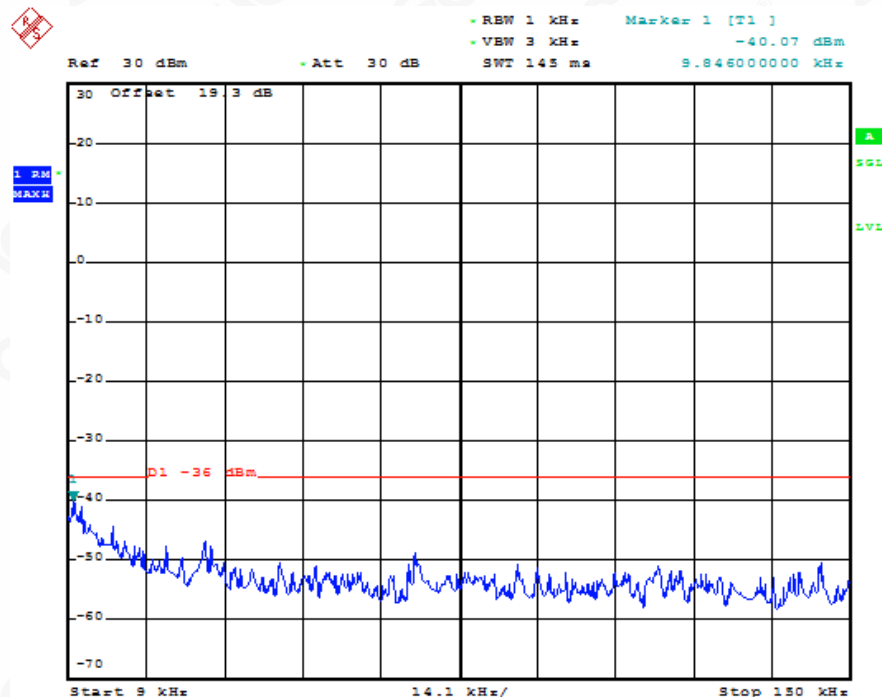
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Tel: +86-755 2523 4088      E-mail: [agc@agc-cert.com](mailto:agc@agc-cert.com)      Service Hotline: 400 089 2118

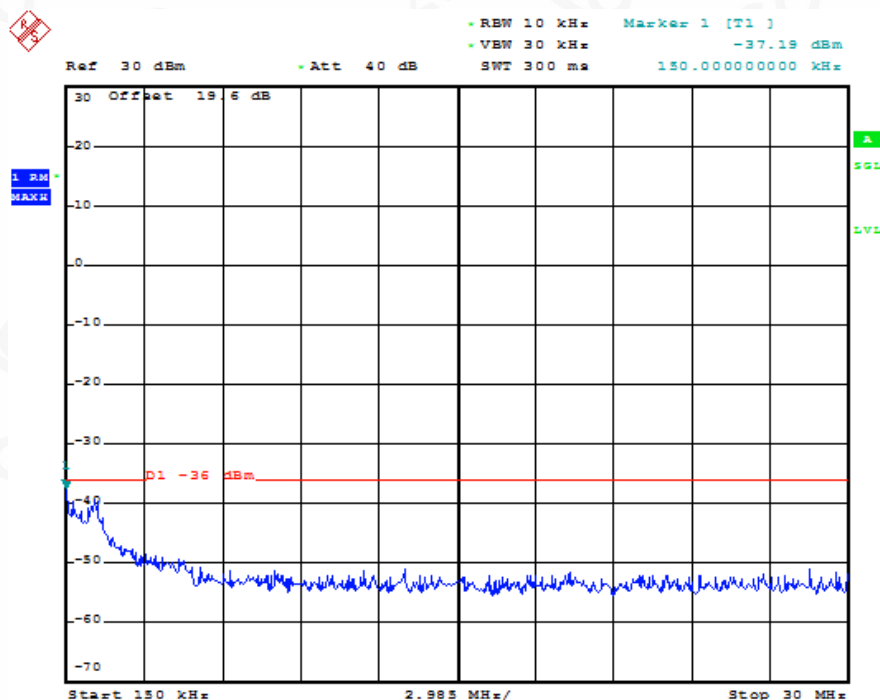
**Channel HCH**  
9KHZ~150KHZ



AAA

Date: 16.JAN.2020 09:31:07

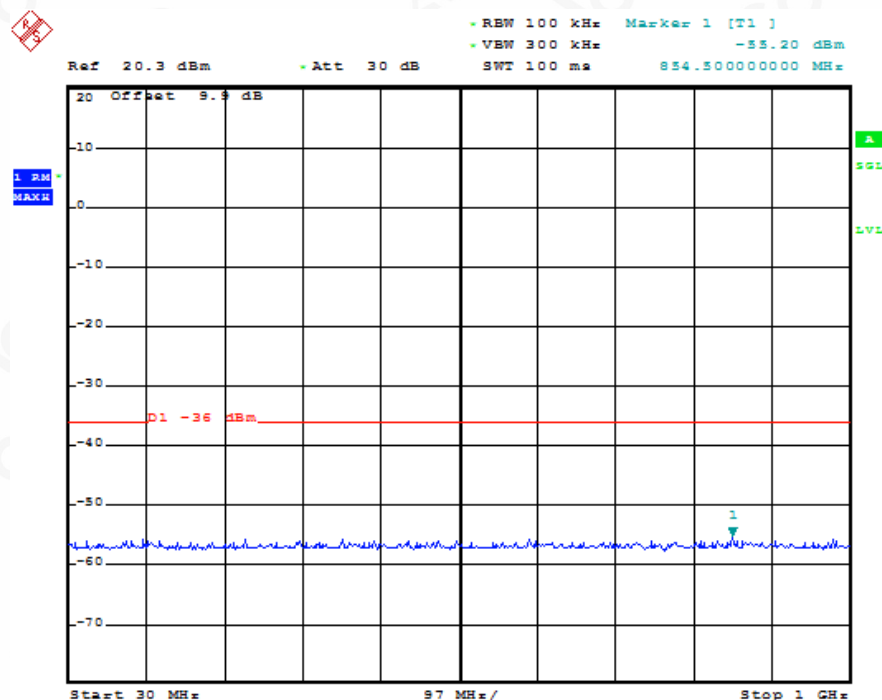
150KHZ~30MHZ



AAA

Date: 16.JAN.2020 09:31:19

30MHZ-1GHZ

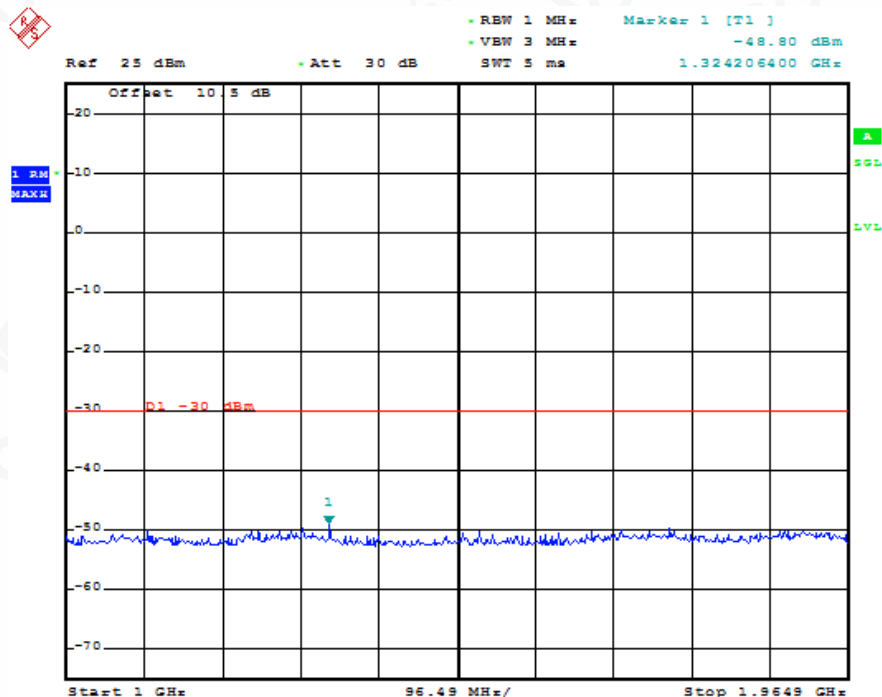


AAA

Date: 16.JAN.2020 09:31:32

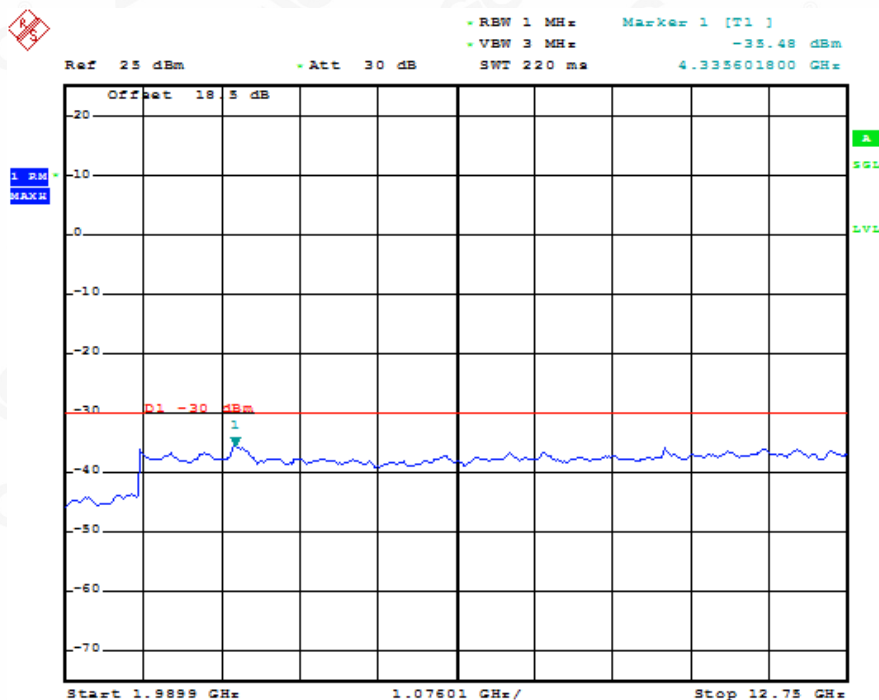


1GHZ-12.75GHZ



AAA

Date: 16.JAN.2020 09:31:44



AAA

Date: 16.JAN.2020 09:31:57



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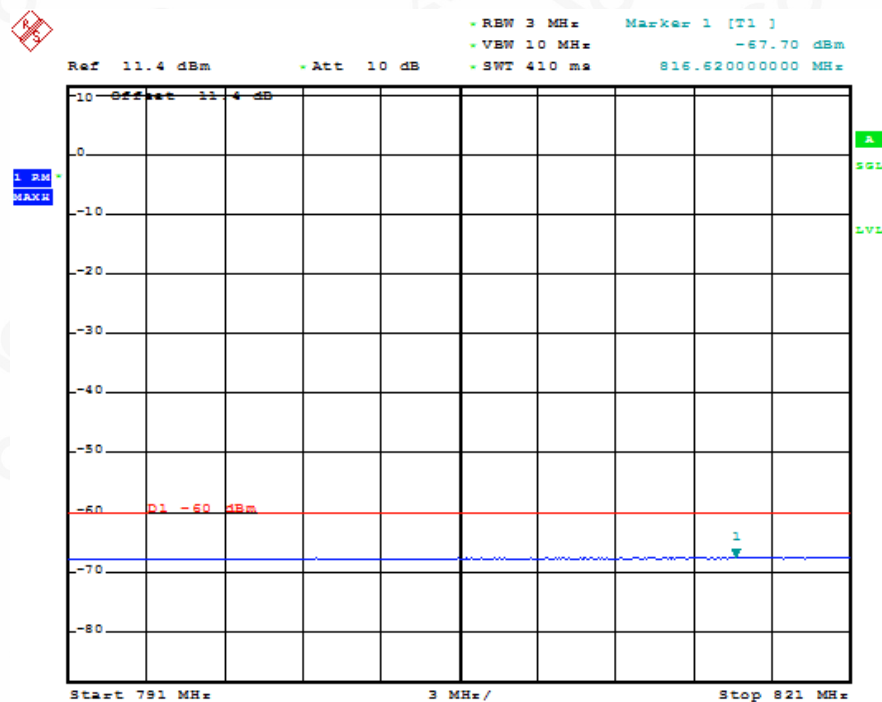
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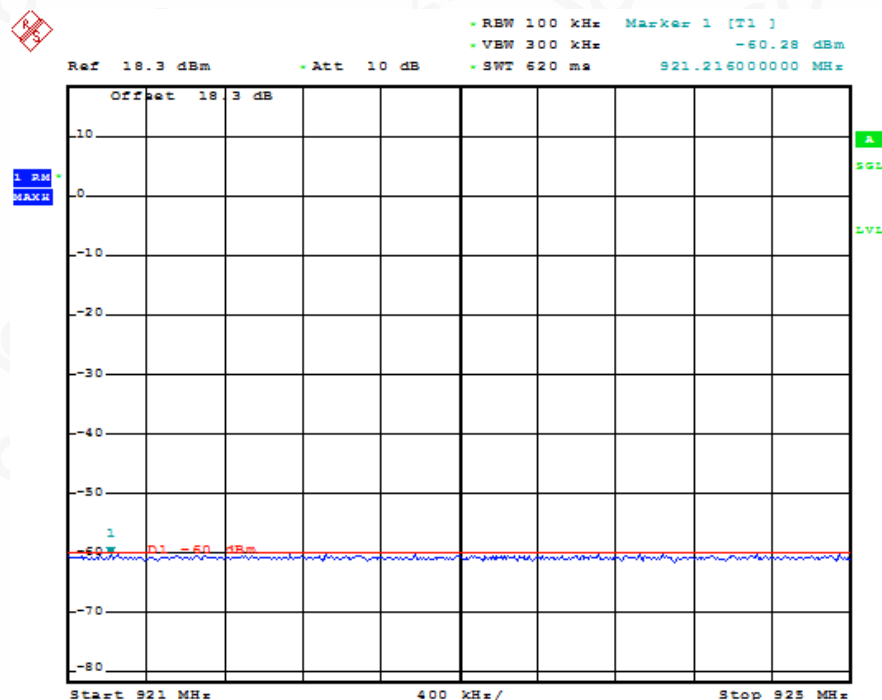
791MHZ~821MHZ



AAA

Date: 16.JAN.2020 09:32:31

921MHZ~925MHZ

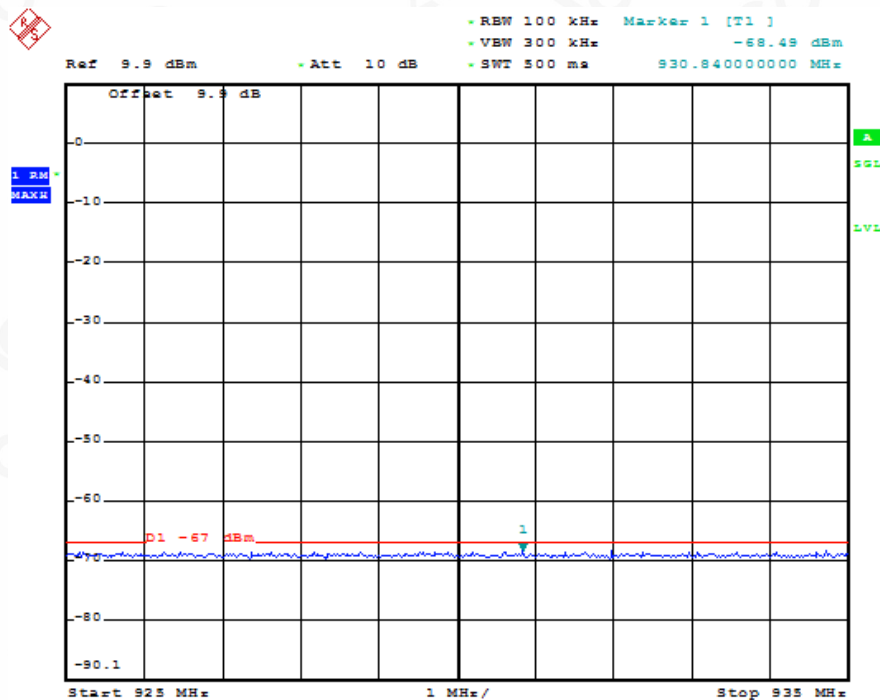


AAA

Date: 16.JAN.2020 09:33:27



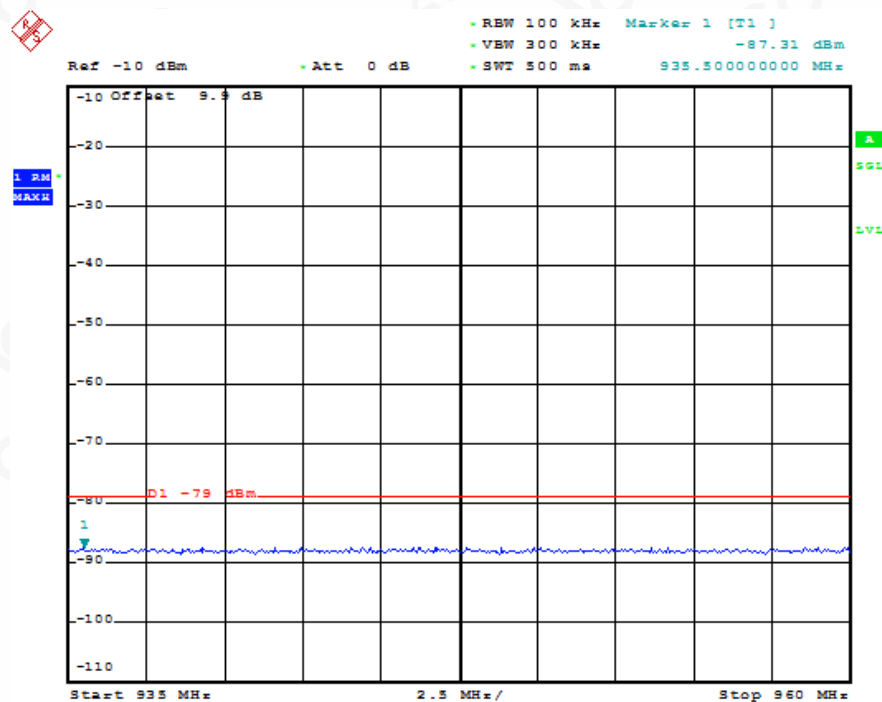
925MHZ~935MHZ



AAA

Date: 16.JAN.2020 09:34:12

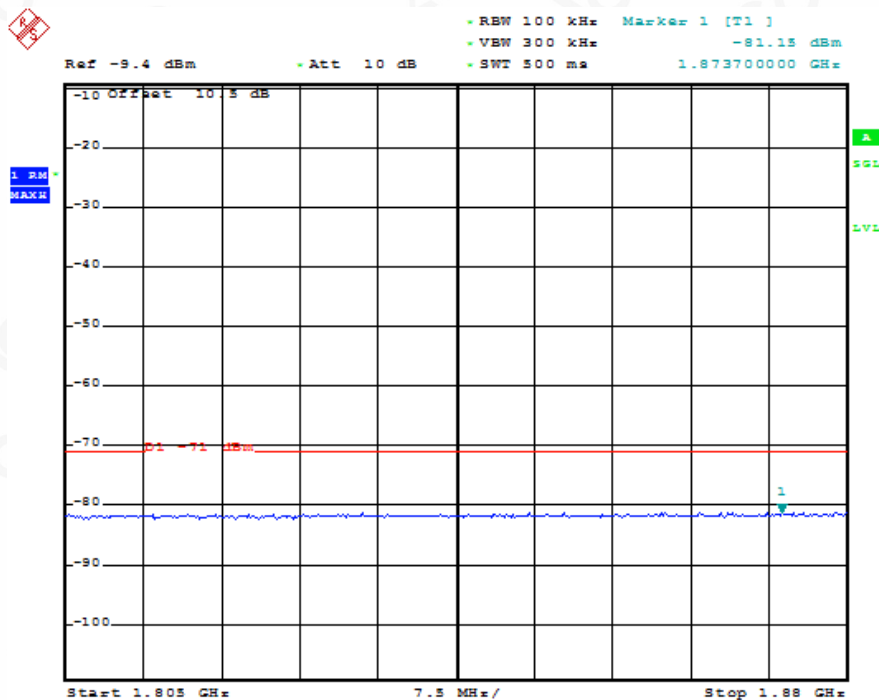
935MHZ~960MHZ



AAA

Date: 16.JAN.2020 09:34:25

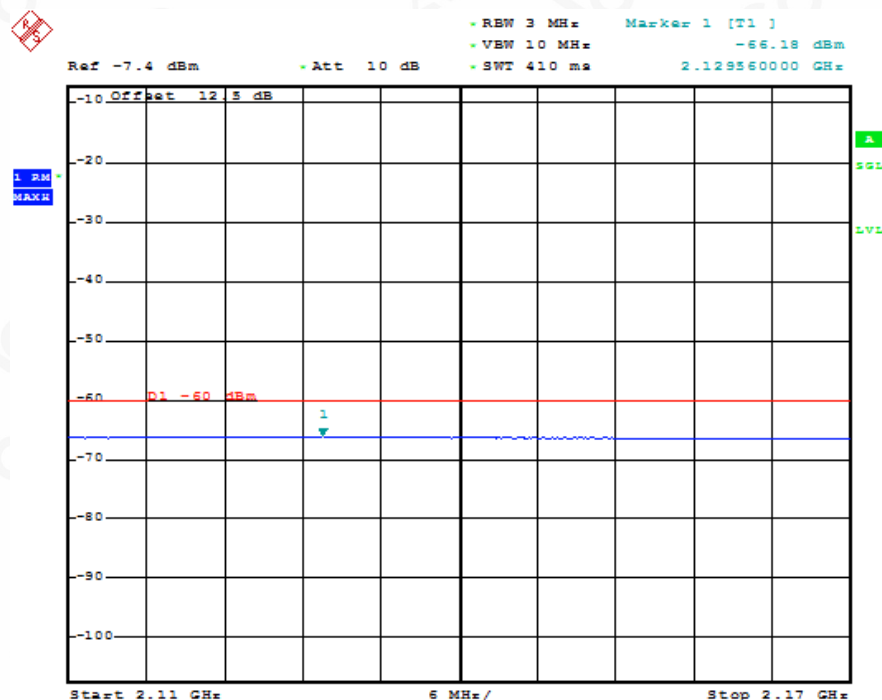
1805MHZ~1880MHZ



AAA

Date: 16.JAN.2020 09:34:37

2110MHZ~2170MHZ

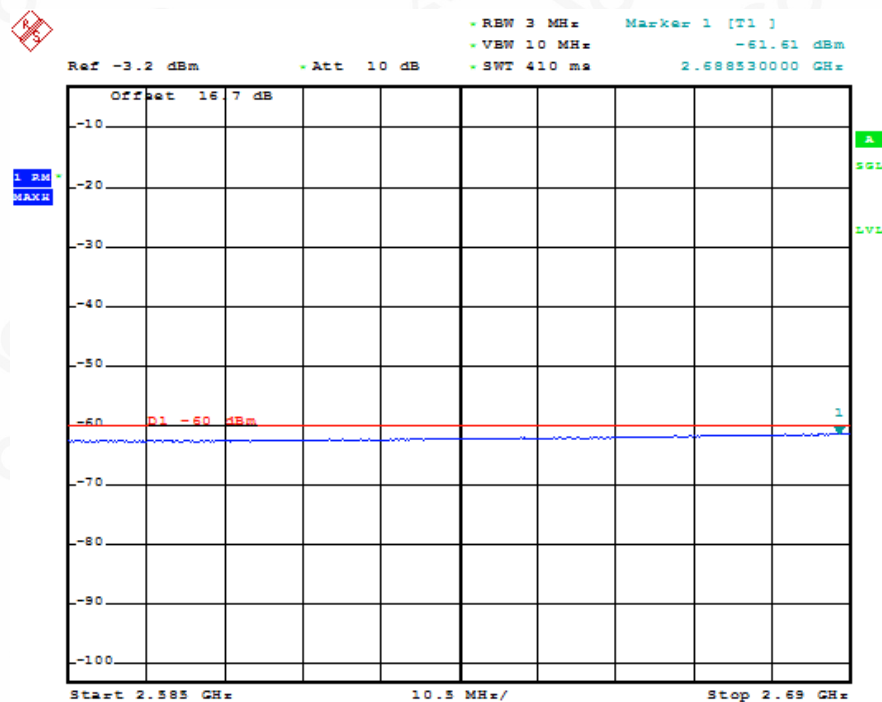


AAA

Date: 16.JAN.2020 09:35:11



2585MHZ~2690MHZ



AAA

Date: 16.JAN.2020 09:36:07

## Appendix F. Transmitter maximum output power with HS-DPCCH

Note: All test modes were carried out for all operation modes and record the worst test mode (BAND I TNVN) of fellow:

Operating Band	Test Conditions	Test Channel	Sub-test	Measurement Data(dBm)	Limit(dBm)	Result
Band I	TNVN	LCH	1	21.76	24(+1.7/-3.7)	Pass
			2	21.07	24(+1.7/-3.7)	Pass
			3	21.06	23.5(+2.2/-3.7)	Pass
			4	21.02	23.5(+2.2/-3.7)	Pass
		MCH	1	23.65	24(+1.7/-3.7)	Pass
			2	22.74	24(+1.7/-3.7)	Pass
			3	22.71	23.5(+2.2/-3.7)	Pass
			4	22.66	23.5(+2.2/-3.7)	Pass
		HCH	1	23.04	24(+1.7/-3.7)	Pass
			2	22.12	24(+1.7/-3.7)	Pass
			3	22.18	23.5(+2.2/-3.7)	Pass
			4	22.09	23.5(+2.2/-3.7)	Pass



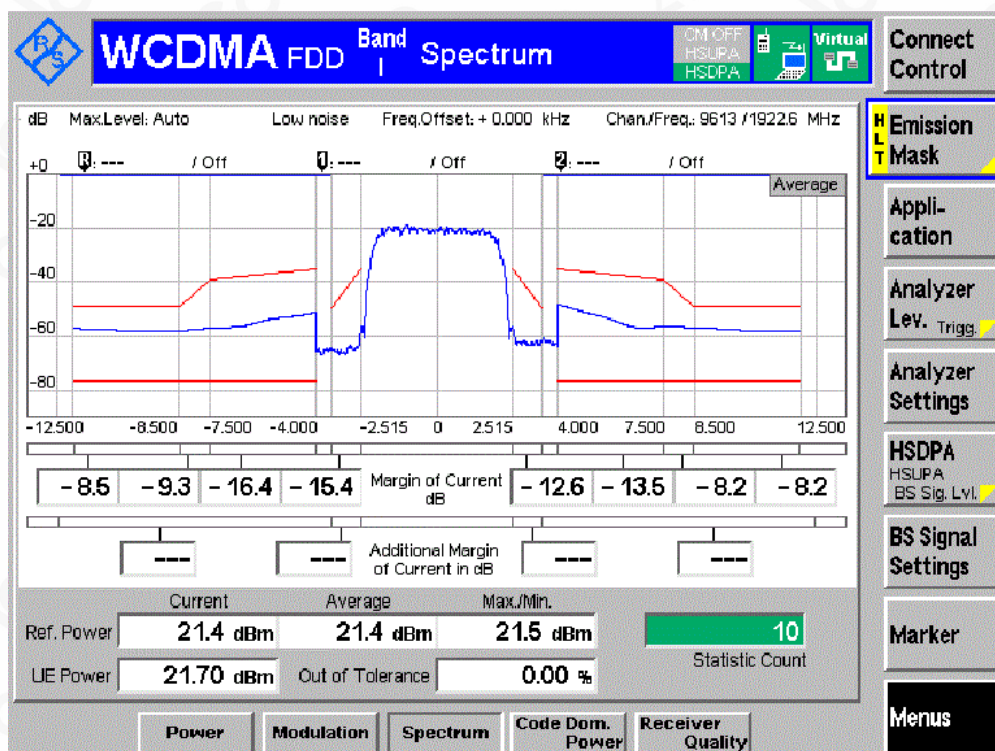
## Appendix G. Transmitter spectrum emission mask with HS-DPCCH

Operating Band	Test Conditions	Sub-test	Test Channel		
			LCH	MCH	HCH
Band I	TNVN	1	PASS	PASS	PASS
		2	PASS	PASS	PASS
		3	PASS	PASS	PASS
		4	PASS	PASS	PASS

# BAND I

## Channel LCH

### Sub-test 1



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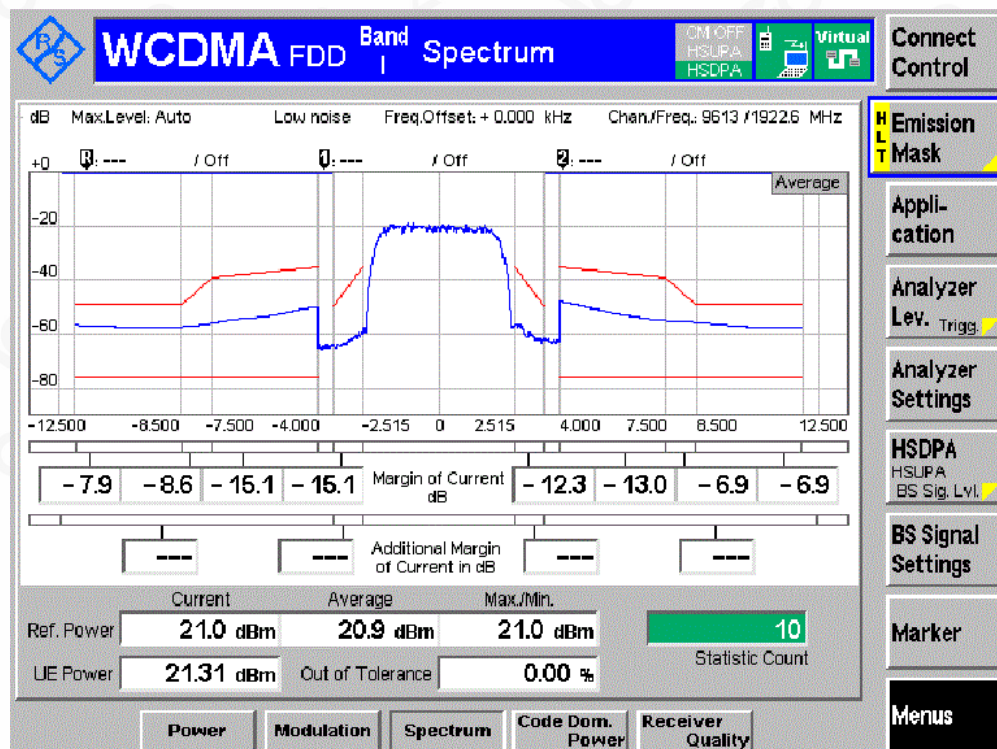
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

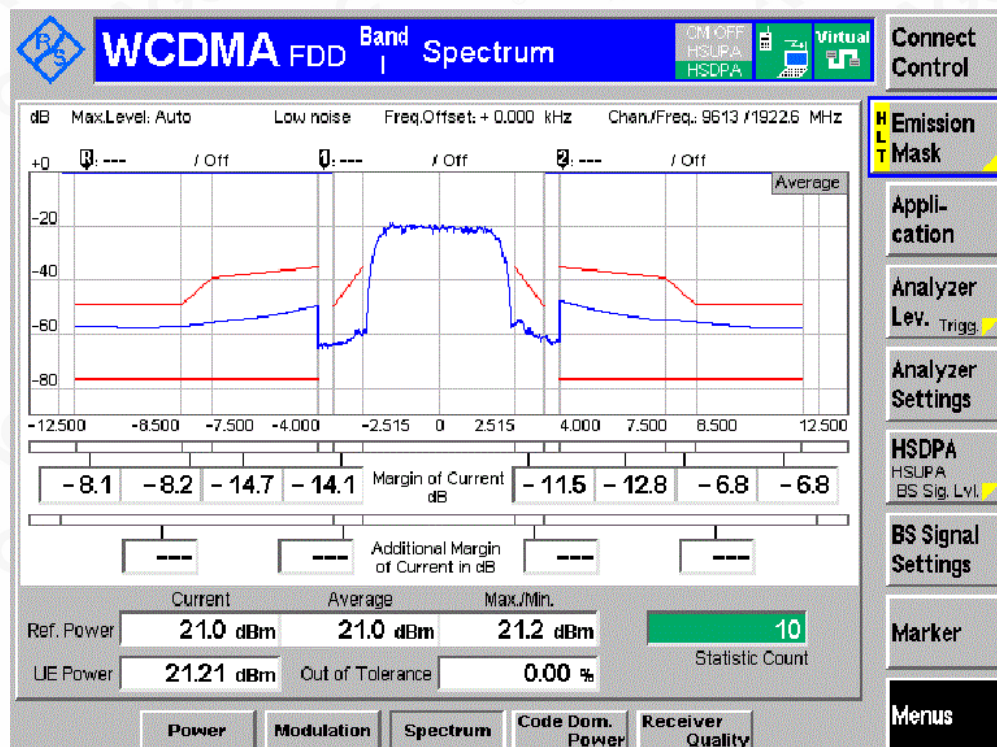
Service Hotline: 400 089 2118



### Sub-test 2

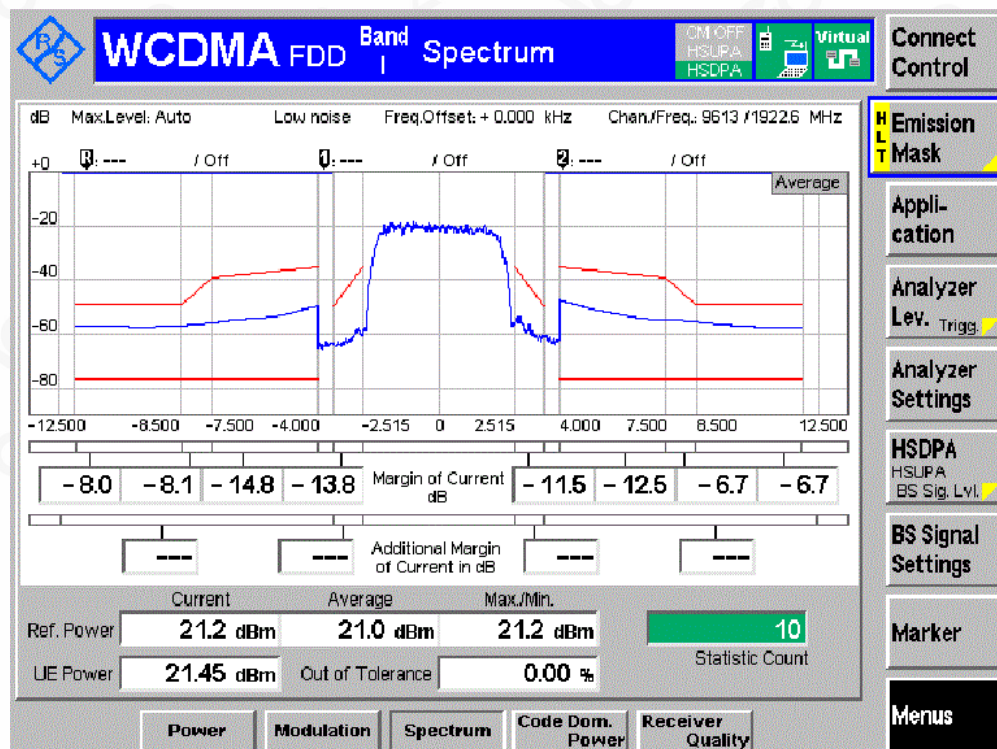


### Sub-test 3





Sub-test 4



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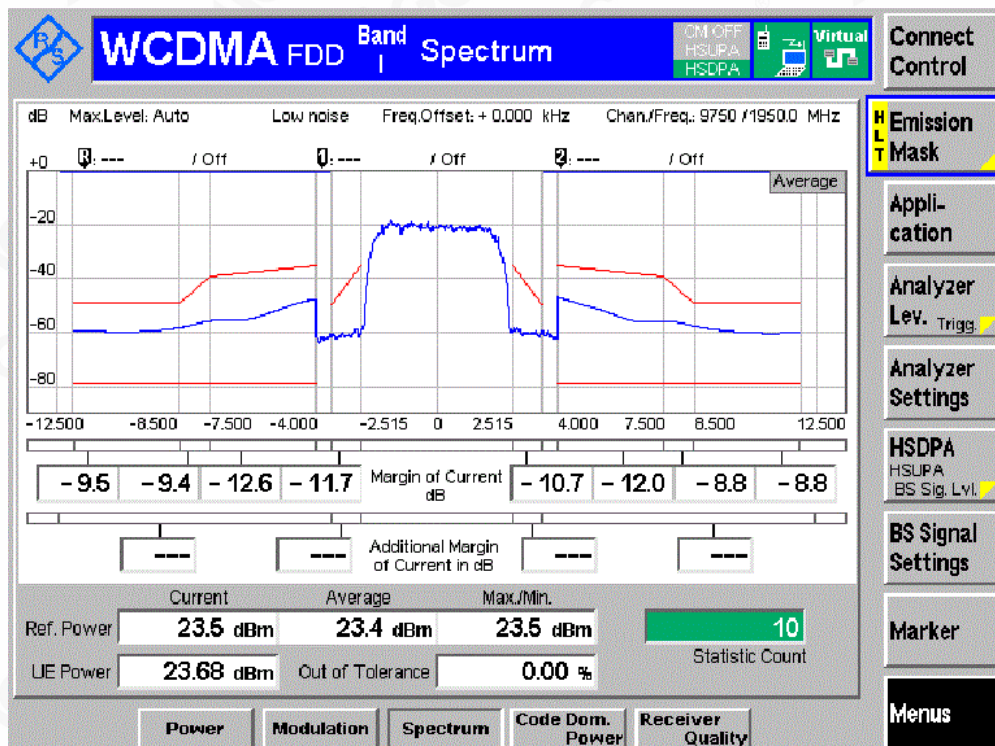
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

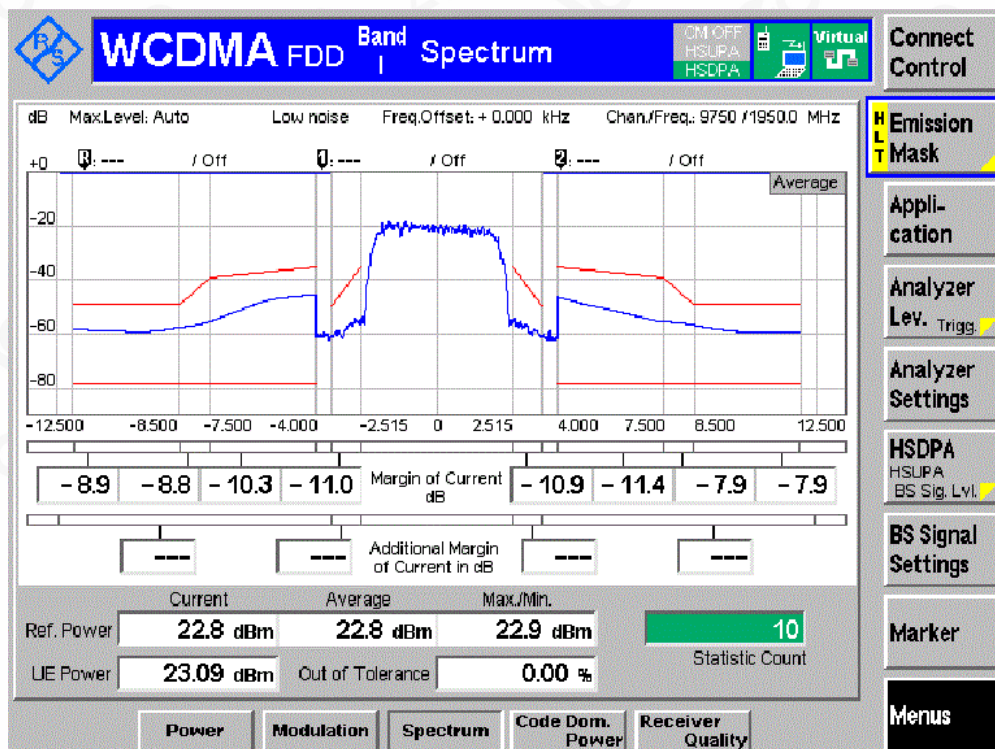
Service Hotline: 400 089 2118

## Channel MCH

### Sub-test 1

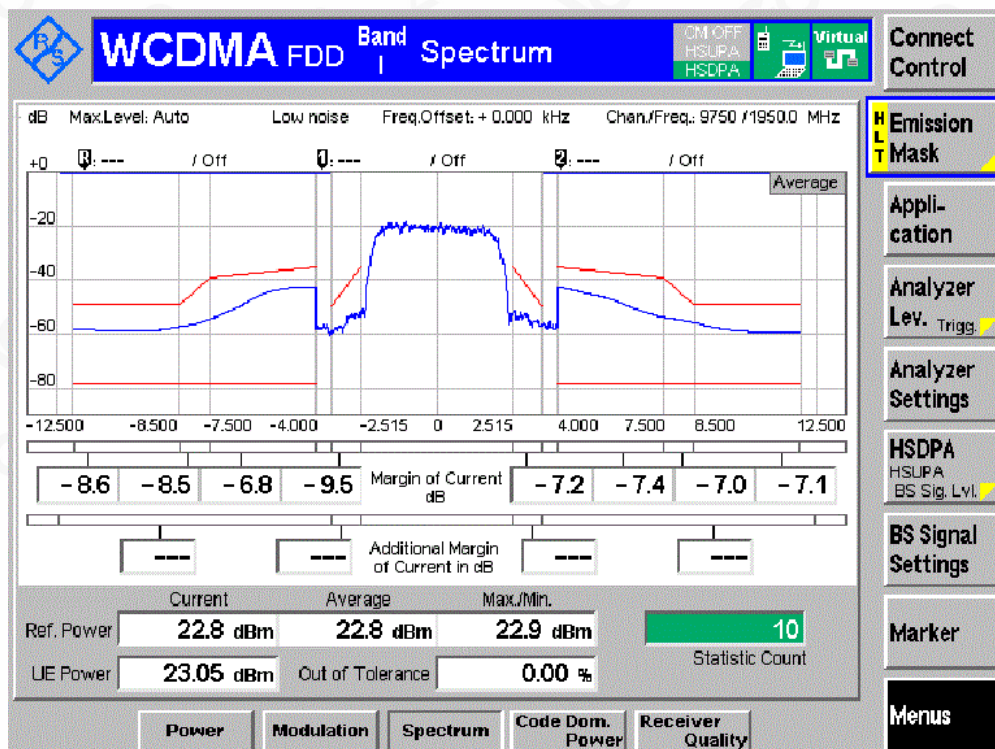


### Sub-test 2

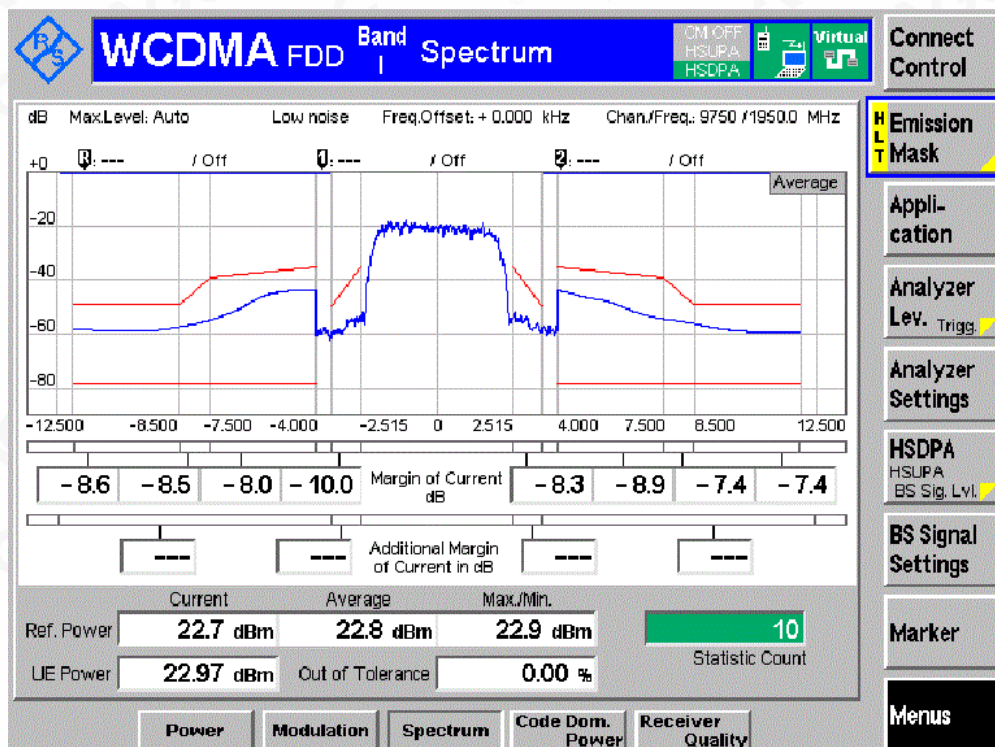




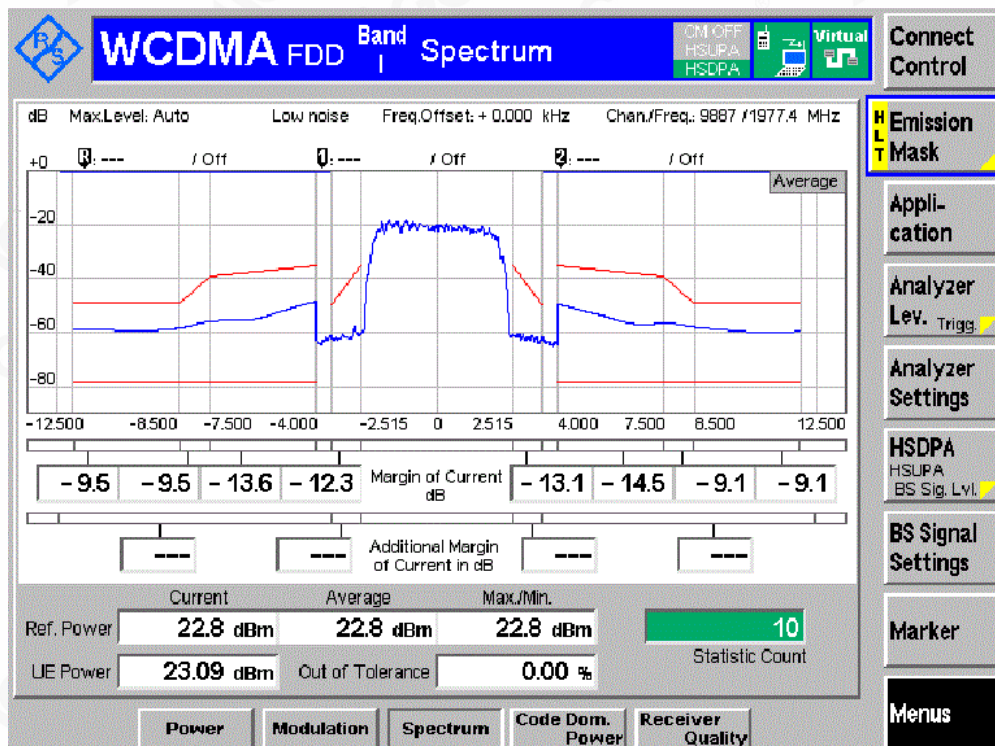
### Sub-test 3



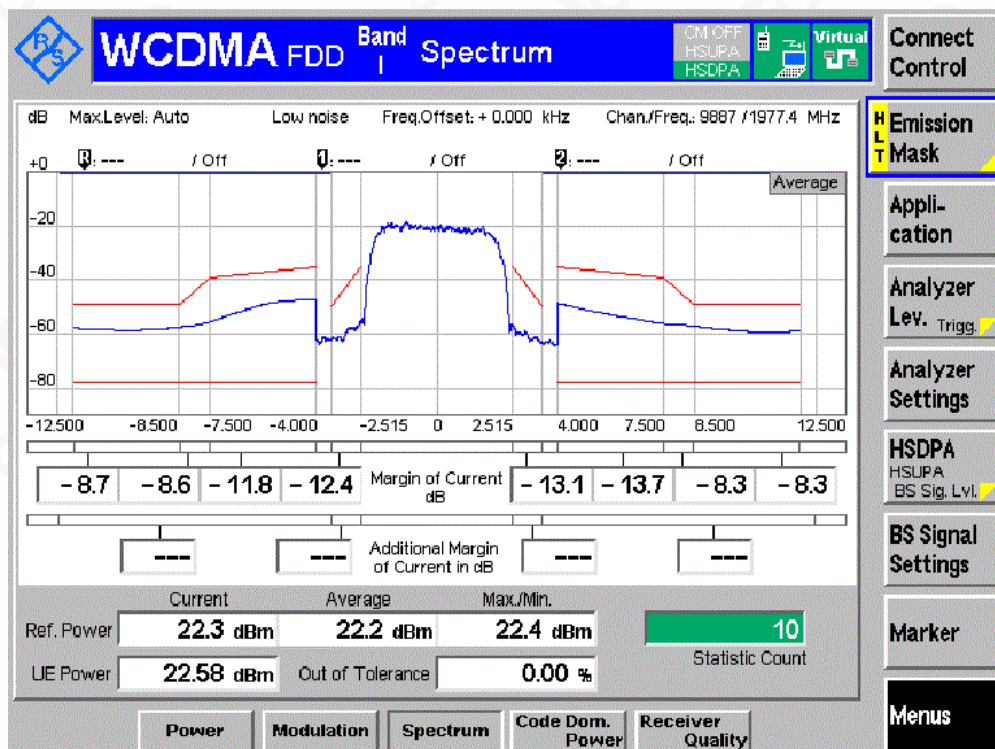
### Sub-test 4



**Channel HCH**  
**Sub-test 1**

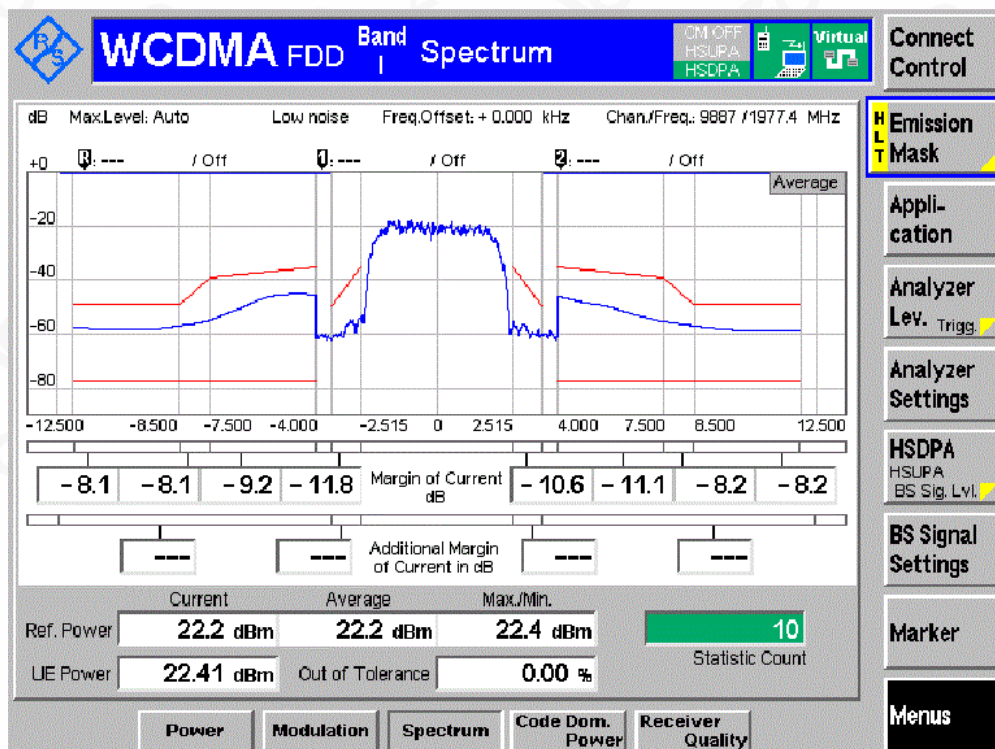


**Sub-test 2**

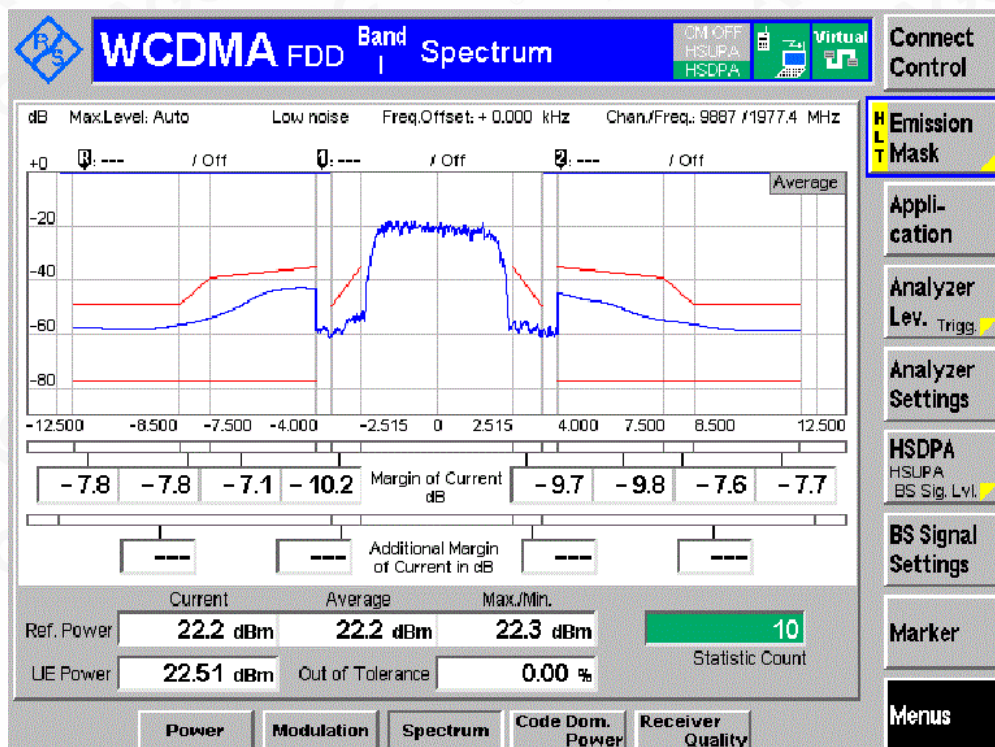




### Sub-test 3



### Sub-test 4



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## Appendix H. Transmitter adjacent channel leakage power ratio with HS-DPPCH

Note: All test modes were carried out for all operation modes and record the worst test mode (BAND I TNVN) of fellow:

Operating Band	Test Conditions	Test Channel	Sub-test	UE Channel	Measurement Data(dBm)	Limit (dBm)	Result
Band I	TNVN	LCH	1	+5MHz	-45.06	-32.2	Pass
				-5 MHz	-47.18	-32.2	Pass
				-10MHz	-52.58	-42.2	Pass
				+10MHz	-52.48	-42.2	Pass
			2	+5MHz	-44.51	-32.2	Pass
				-5 MHz	-46.38	-32.2	Pass
				-10MHz	-51.97	-42.2	Pass
				+10MHz	-51.64	-42.2	Pass
			3	+5MHz	-44.10	-32.2	Pass
				-5 MHz	-46.05	-32.2	Pass
				-10MHz	-51.85	-42.2	Pass
				+10MHz	-51.40	-42.2	Pass
			4	+5MHz	-43.89	-32.2	Pass
				-5 MHz	-45.89	-32.2	Pass
				-10MHz	-51.75	-42.2	Pass
				+10MHz	-51.30	-42.2	Pass
		MCH	1	+5MHz	-43.57	-32.2	Pass
				-5 MHz	-44.19	-32.2	Pass
				-10MHz	-54.02	-42.2	Pass
				+10MHz	-53.86	-42.2	Pass
			2	+5MHz	-41.64	-32.2	Pass
				-5 MHz	-41.44	-32.2	Pass
				-10MHz	-53.37	-42.2	Pass
				+10MHz	-53.23	-42.2	Pass
			3	+5MHz	-39.11	-32.2	Pass
				-5 MHz	-38.85	-32.2	Pass
				-10MHz	-53.13	-42.2	Pass
				+10MHz	-52.79	-42.2	Pass
			4	+5MHz	-39.49	-32.2	Pass
				-5 MHz	-39.70	-32.2	Pass
				-10MHz	-53.18	-42.2	Pass
				+10MHz	-52.90	-42.2	Pass



		HCH	1	+5MHz	-45.95	-32.2	Pass
				-5 MHz	-45.03	-32.2	Pass
				-10MHz	-53.61	-42.2	Pass
				+10MHz	-53.89	-42.2	Pass
			2	+5MHz	-43.83	-32.2	Pass
				-5 MHz	-42.19	-32.2	Pass
				-10MHz	-52.75	-42.2	Pass
				+10MHz	-53.11	-42.2	Pass
			3	+5MHz	-43.20	-32.2	Pass
				-5 MHz	-40.47	-32.2	Pass
				-10MHz	-52.54	-42.2	Pass
				+10MHz	-52.98	-42.2	Pass
			4	+5MHz	-41.50	-32.2	Pass
				-5 MHz	-39.11	-32.2	Pass
				-10MHz	-52.45	-42.2	Pass
				+10MHz	-52.83	-42.2	Pass

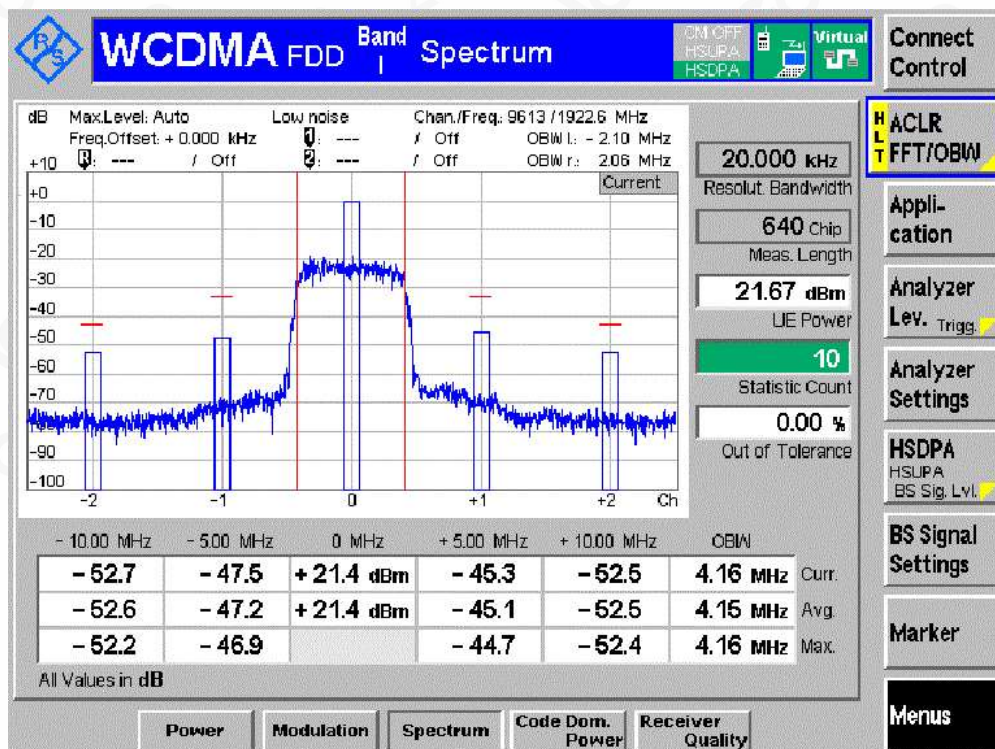
## BAND I

TNVN

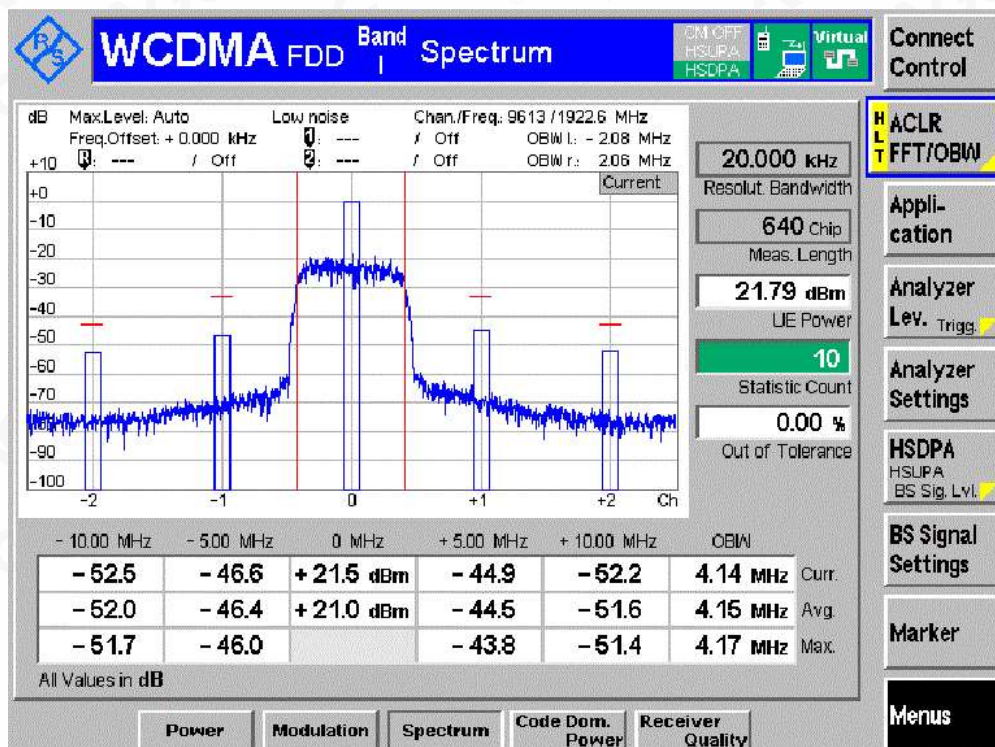
Channel LCH



### Sub-test 1



### Sub-test 2



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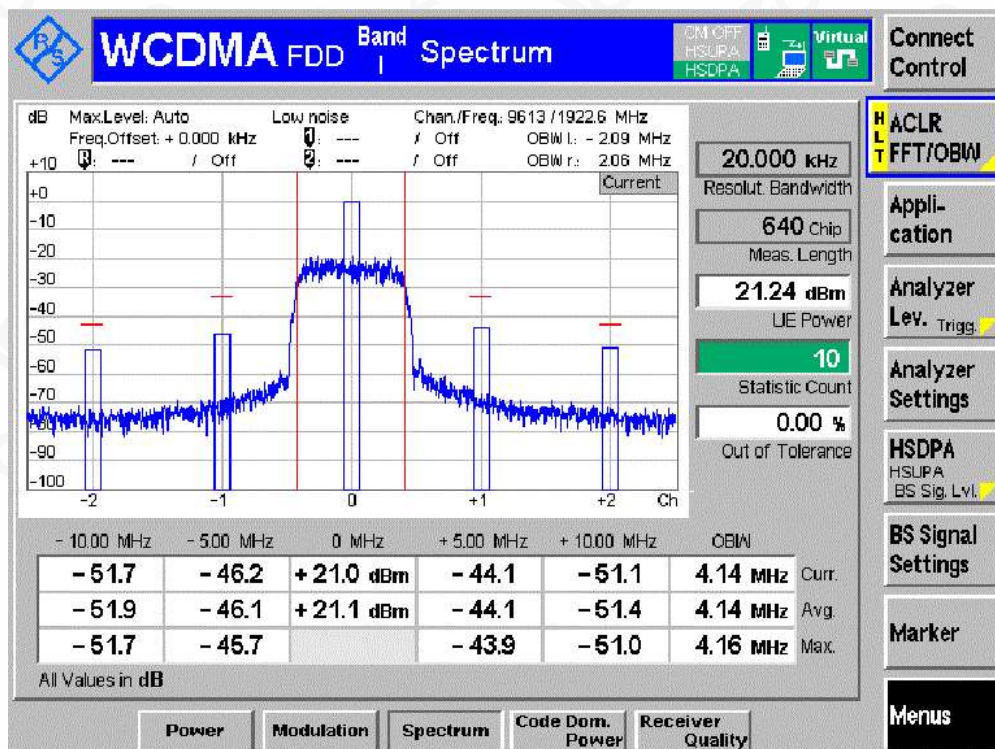
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

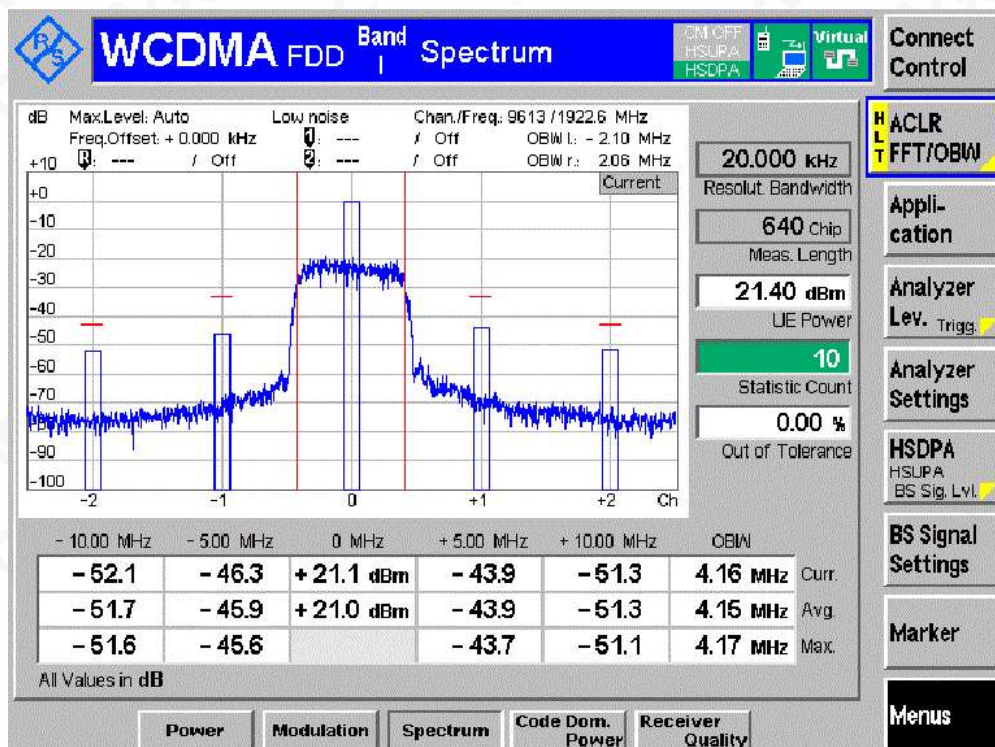
Service Hotline: 400 089 2118



### Sub-test 3



### Sub-test 4



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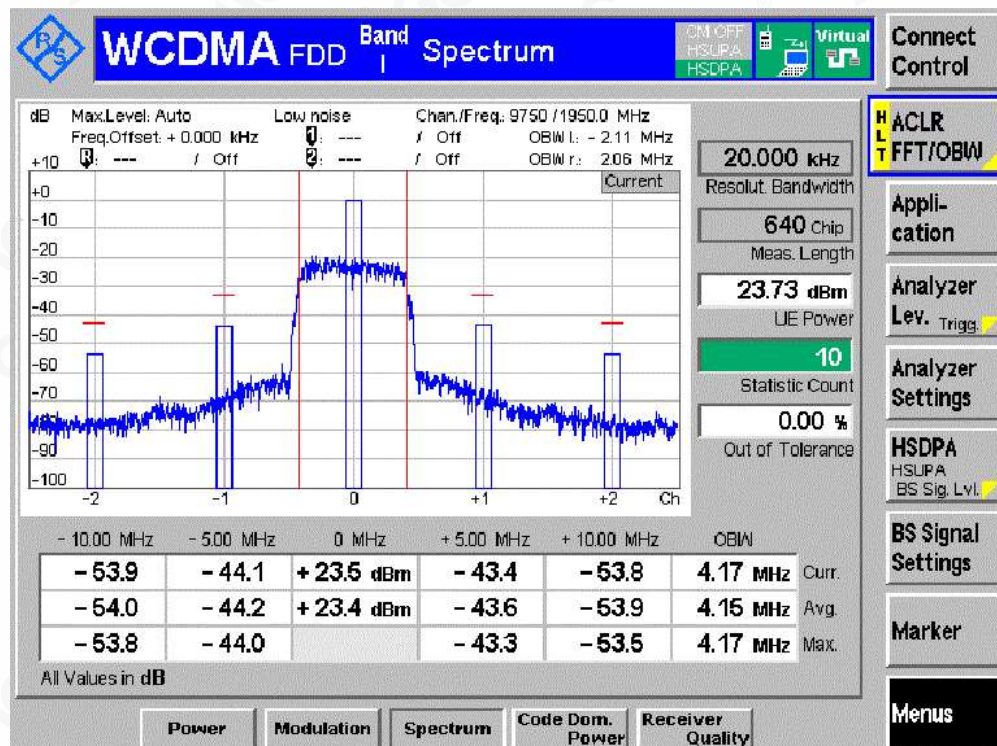
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

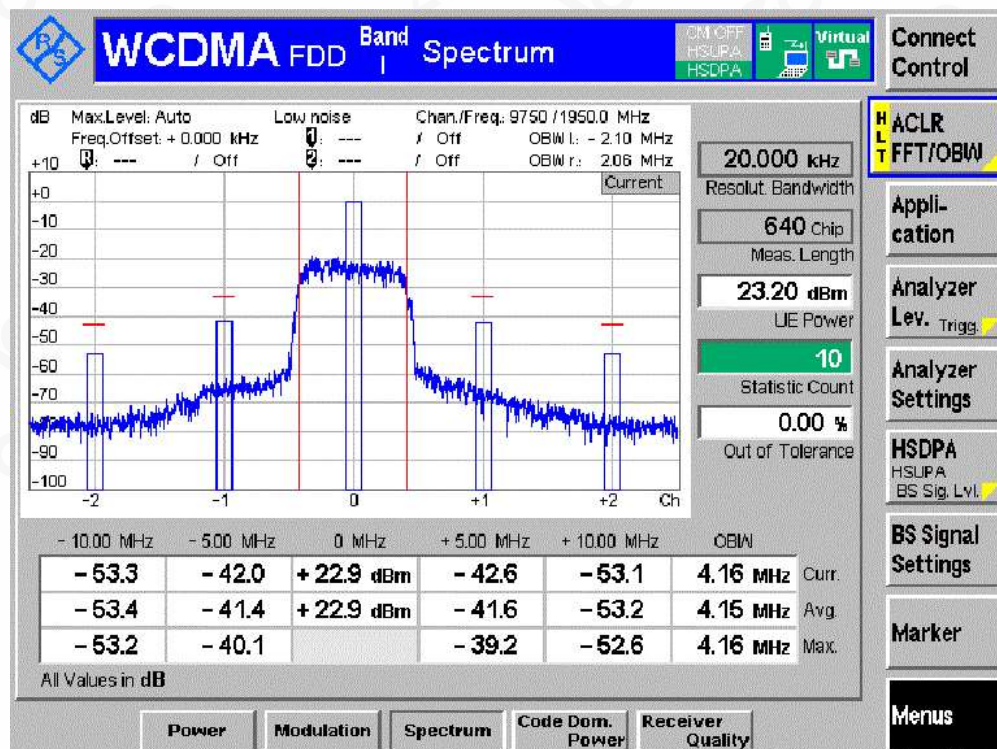
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Channel MCH  
Sub-test 1

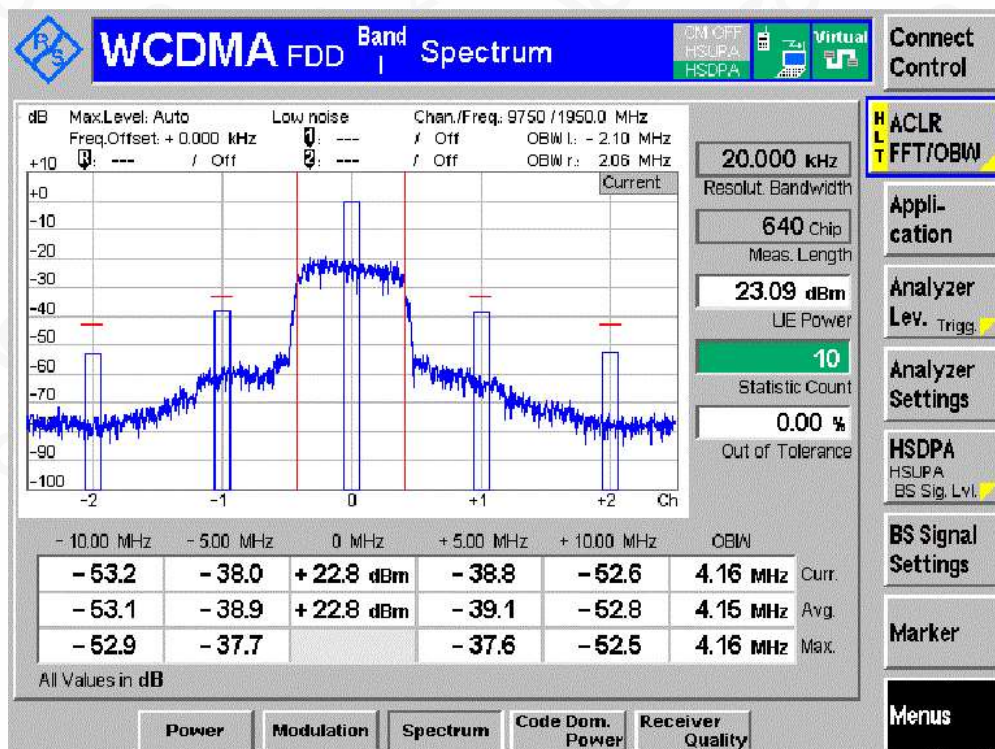


Sub-test 2

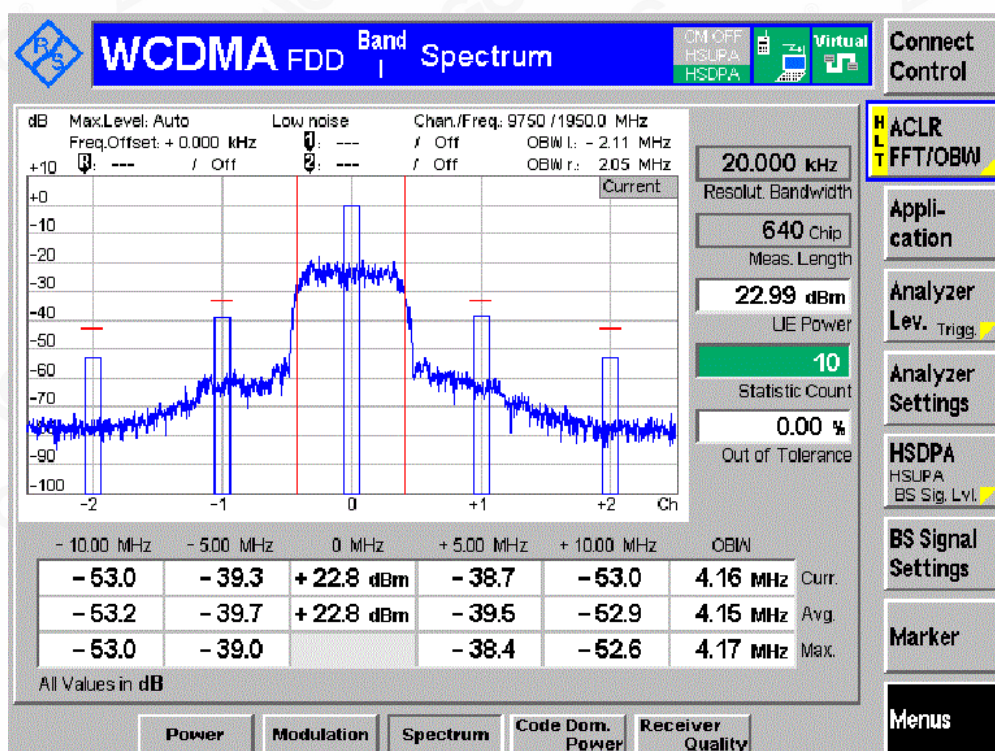




### Sub-test 3

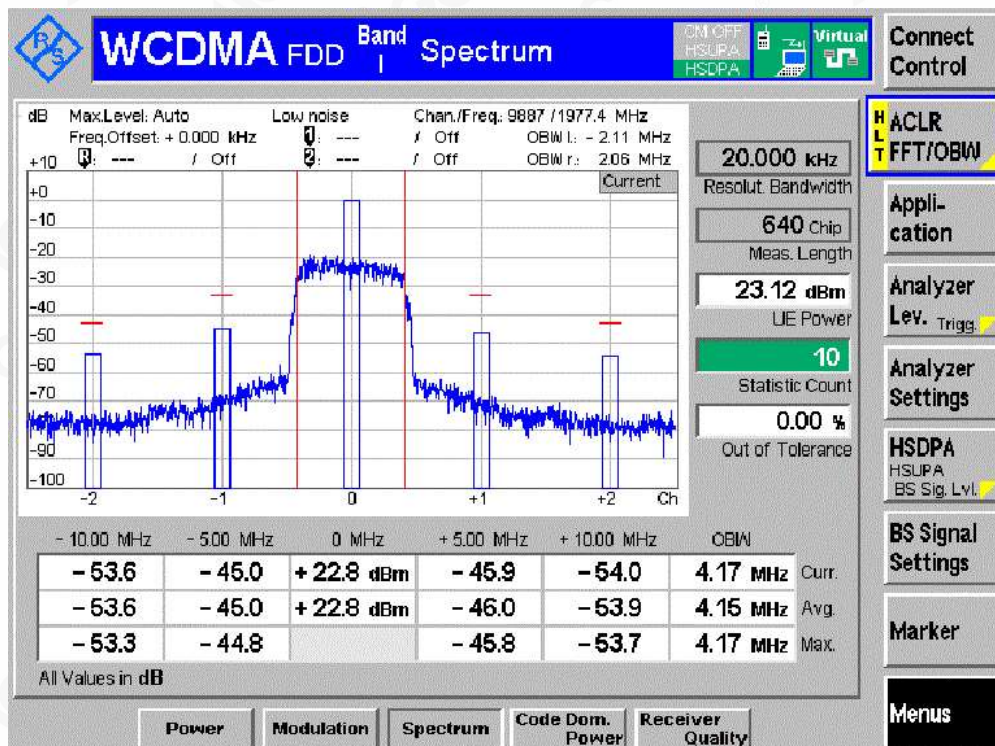


### Sub-test 4

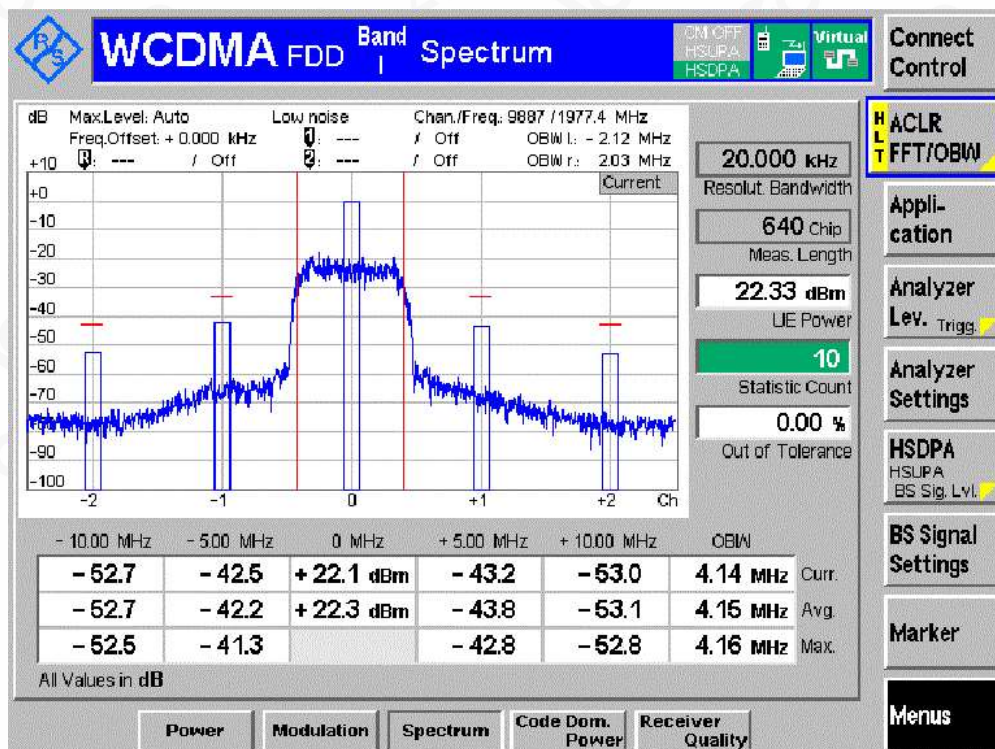




Channel HCH  
Sub-test 1

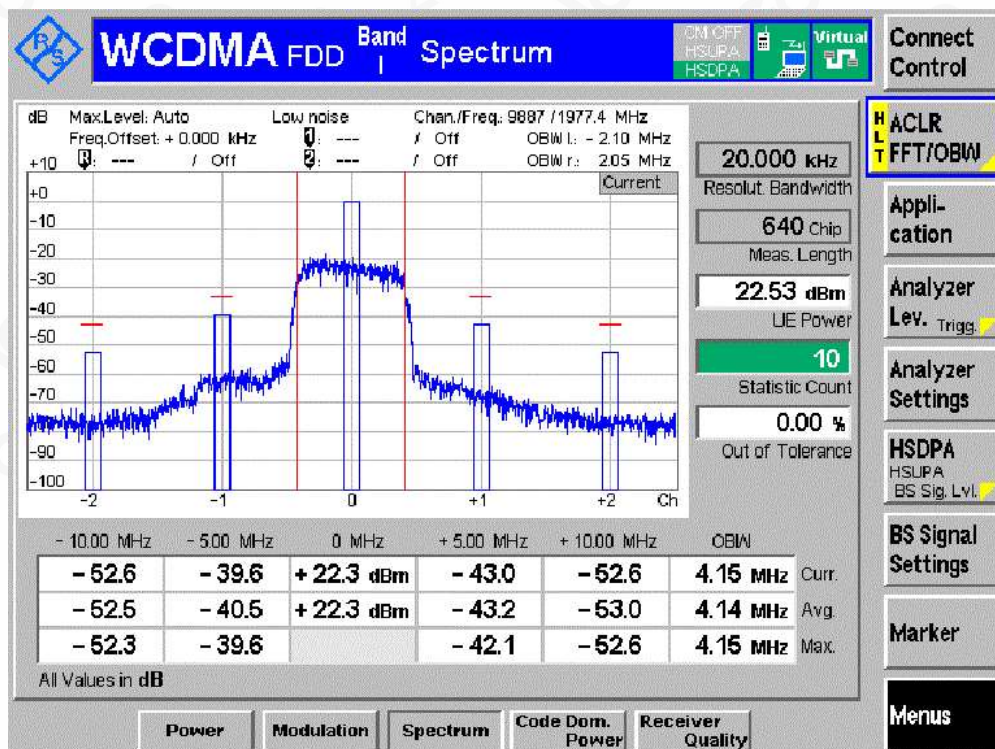


Sub-test 2

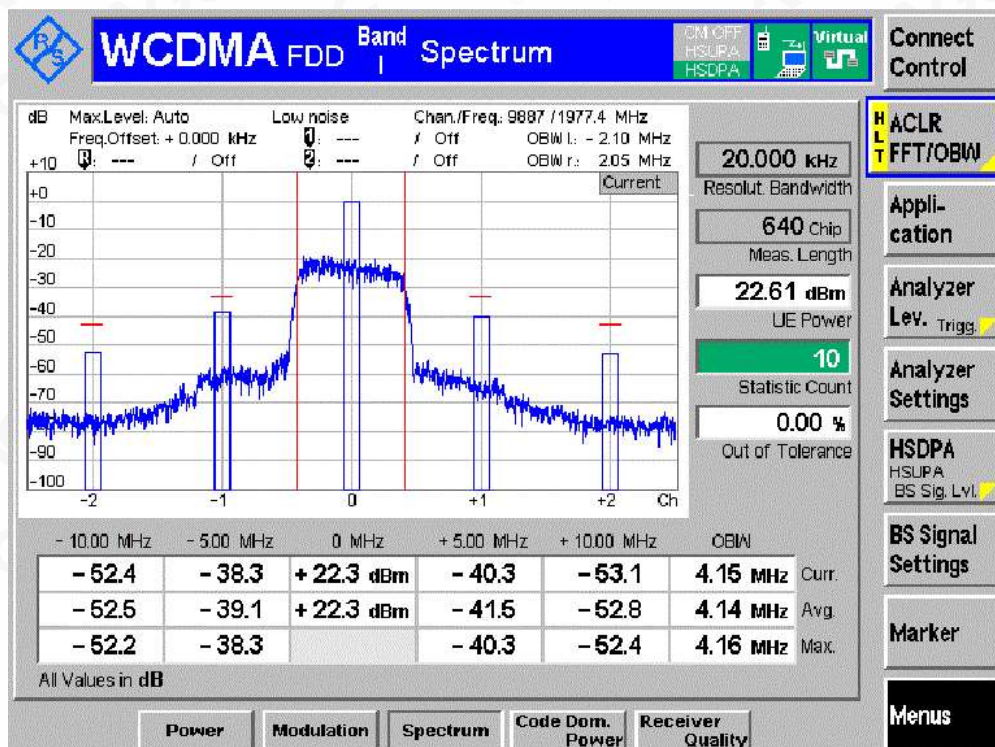




### Sub-test 3



### Sub-test 4



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E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

## Appendix I. Transmitter maximum output power with HS-DPCCH and E-DCH

Note: All test modes were carried out for all operation modes and record the worst test mode (BAND I TNVN) of follow:

Operating Band	Test Conditions	Test Channel	Sub-test	Measurement Data(dBm)	Limit(dBm)	Result
Band I	TNVN	LCH	1	20.74	+24(+1.7/-6.7)	Pass
			2	20.78	+22(+3.7/-5.2)	Pass
			3	21.65	+23(+2.7/-5.2)	Pass
			4	20.08	+22(+3.7/-5.2)	Pass
			5	21.12	+24(+1.7/-3.7)	Pass
		MCH	1	22.23	+24(+1.7/-6.7)	Pass
			2	22.33	+22(+3.7/-5.2)	Pass
			3	23.25	+23(+2.7/-5.2)	Pass
			4	21.63	+22(+3.7/-5.2)	Pass
			5	23.58	+24(+1.7/-3.7)	Pass
		HCH	1	20.71	+24(+1.7/-6.7)	Pass
			2	21.89	+22(+3.7/-5.2)	Pass
			3	21.59	+23(+2.7/-5.2)	Pass
			4	20.11	+22(+3.7/-5.2)	Pass
			5	21.09	+24(+1.7/-3.7)	Pass





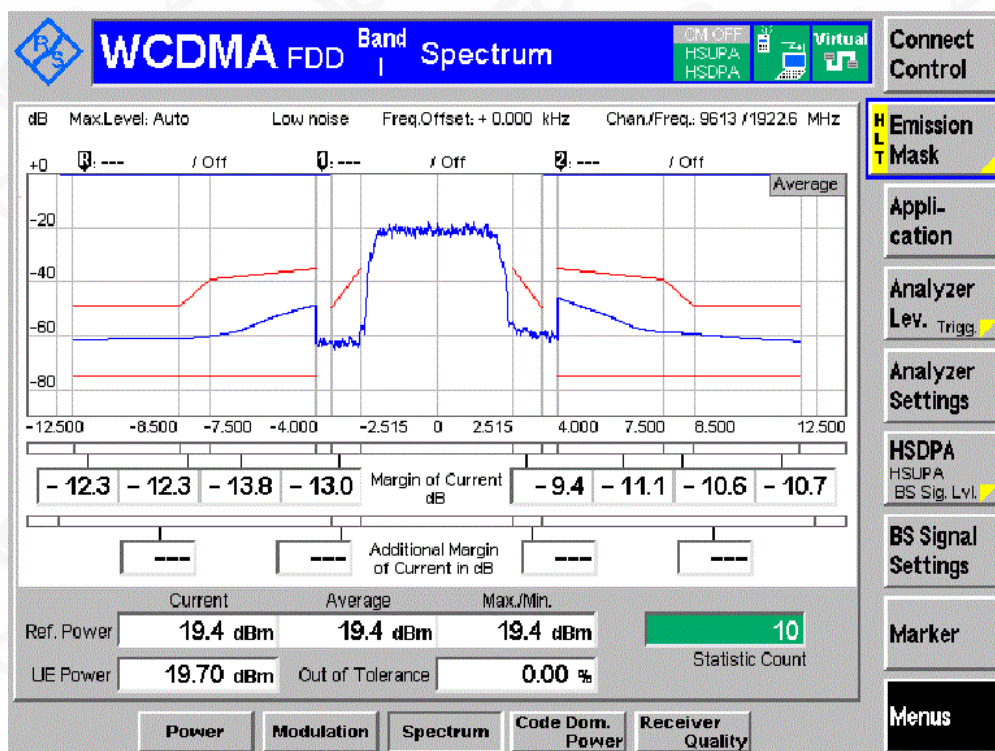
## Appendix J. Transmitter spectrum emission mask with HS-DPCCH and E-DCH

Operating Band	Test Conditions	Sub-test	Test Channel		
			LCH	MCH	HCH
Band I	TNVN	1	PASS	PASS	PASS
		2	PASS	PASS	PASS
		3	PASS	PASS	PASS
		4	PASS	PASS	PASS
		5	PASS	PASS	PASS

# BAND I

## Channel LCH

### Sub-test 1



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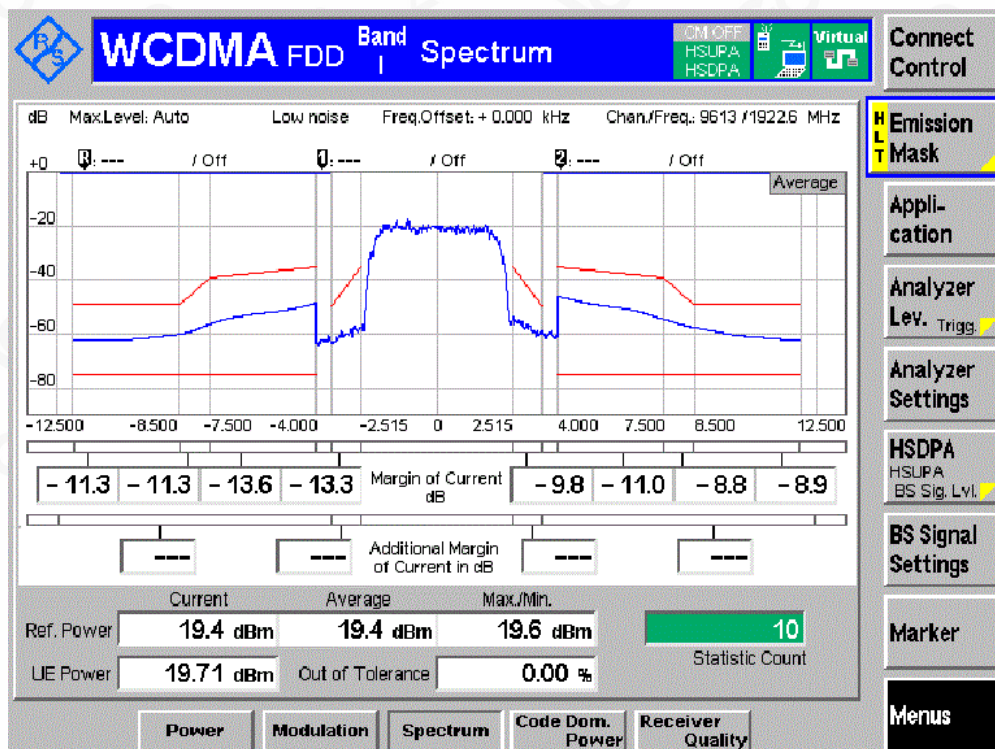
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

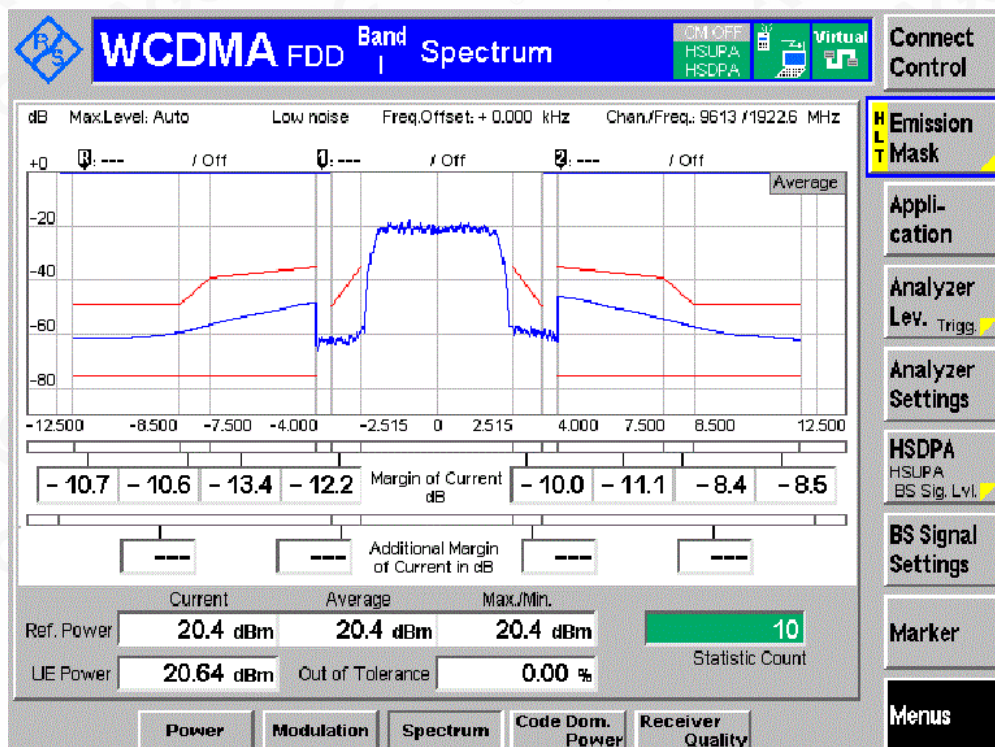
Service Hotline: 400 089 2118



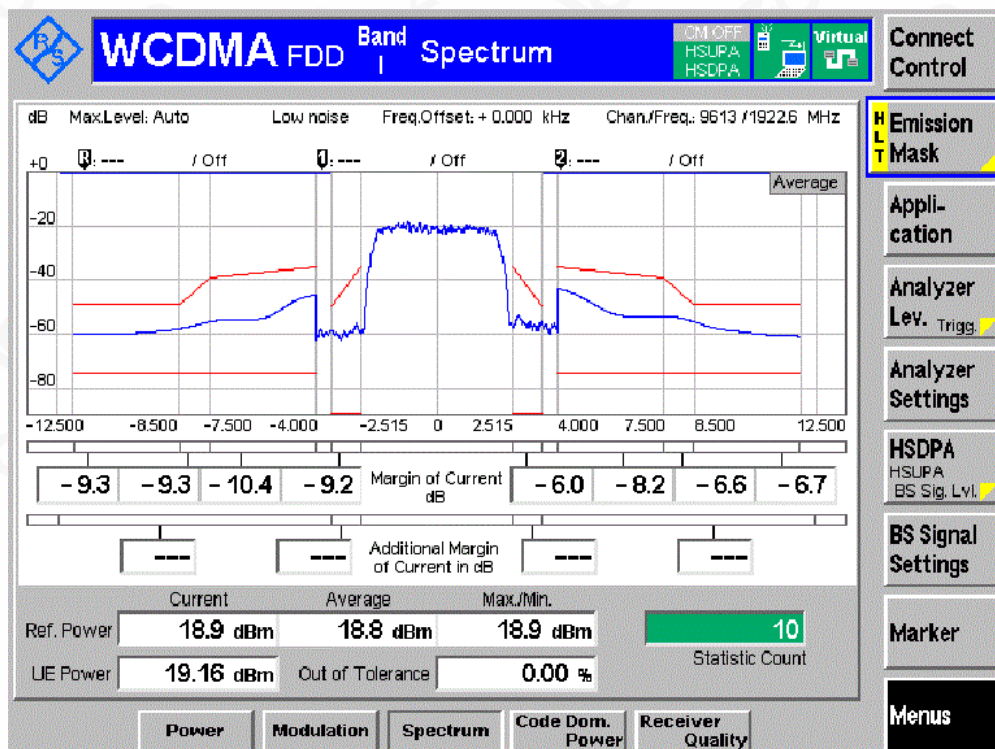
### Sub-test 2



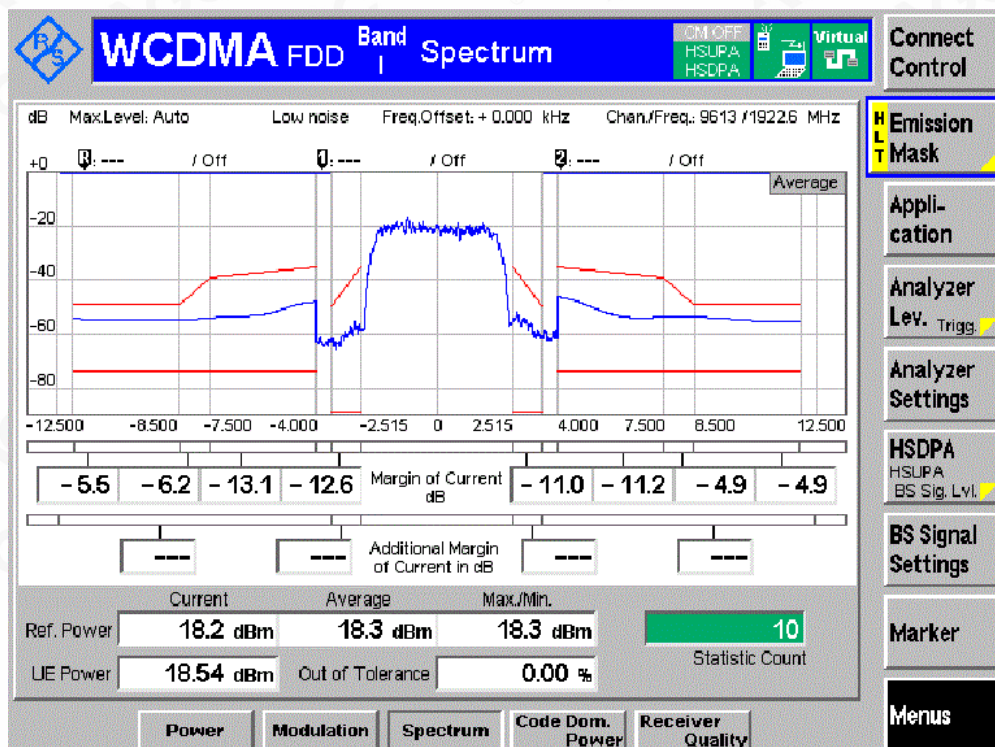
### Sub-test 3



#### Sub-test 4



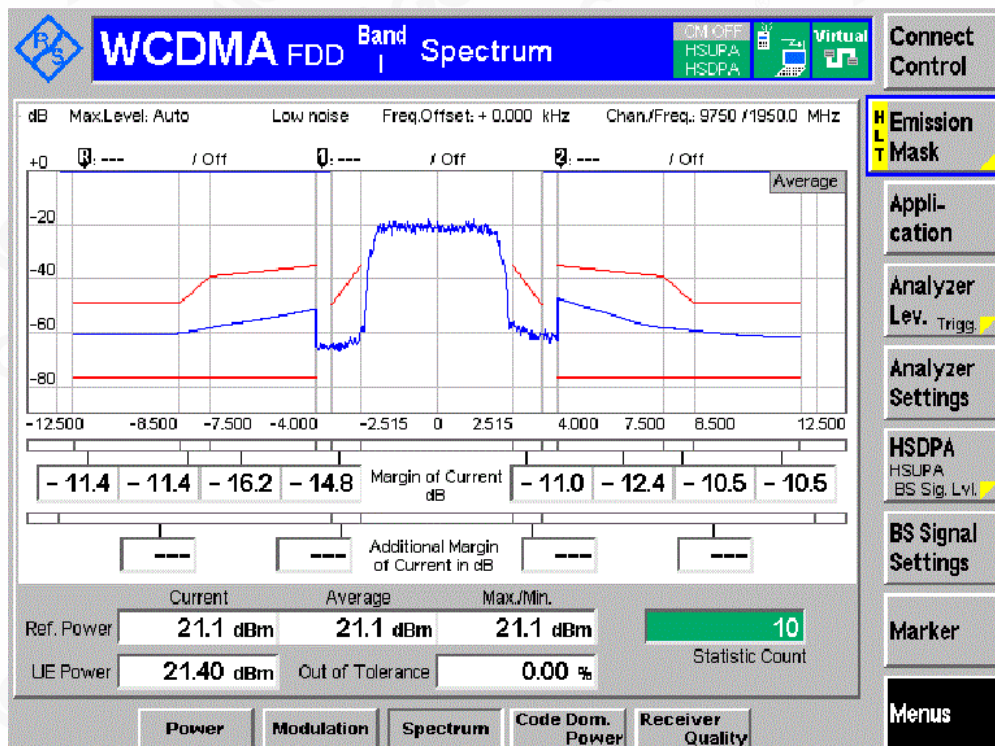
#### Sub-test 5



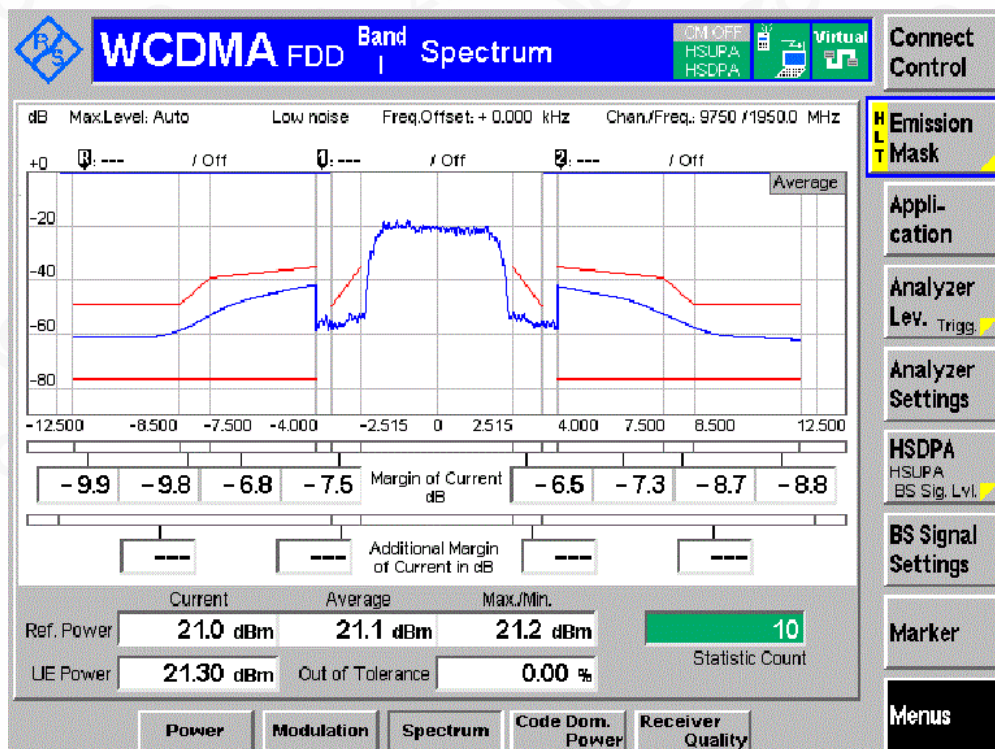


## Channel MCH

### Sub-test 1

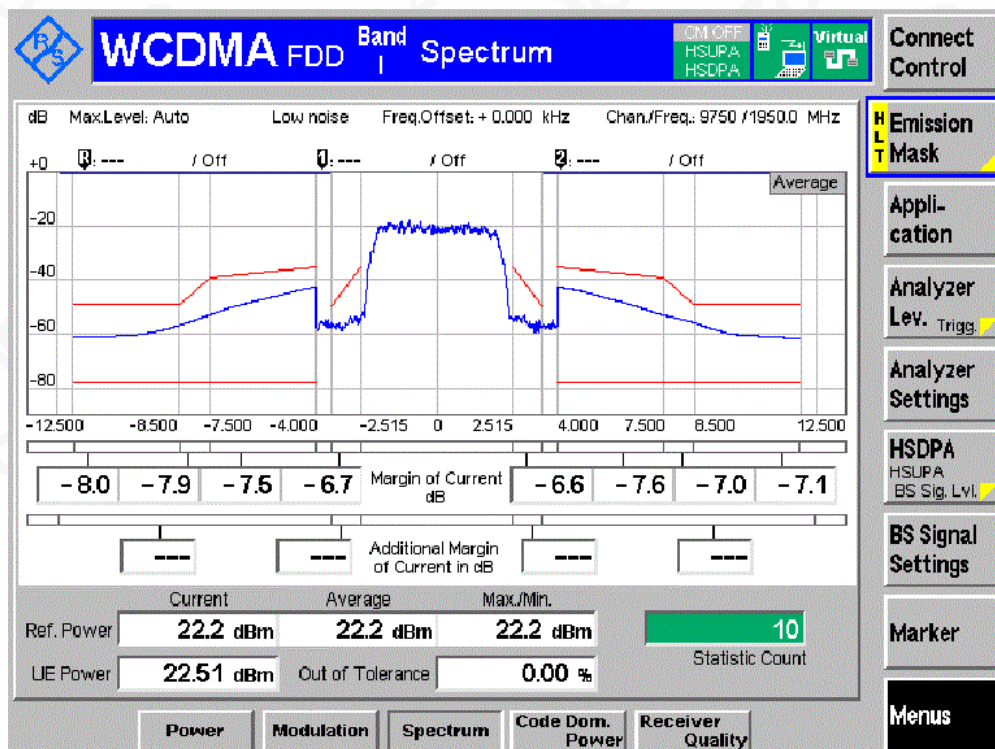


### Sub-test 2

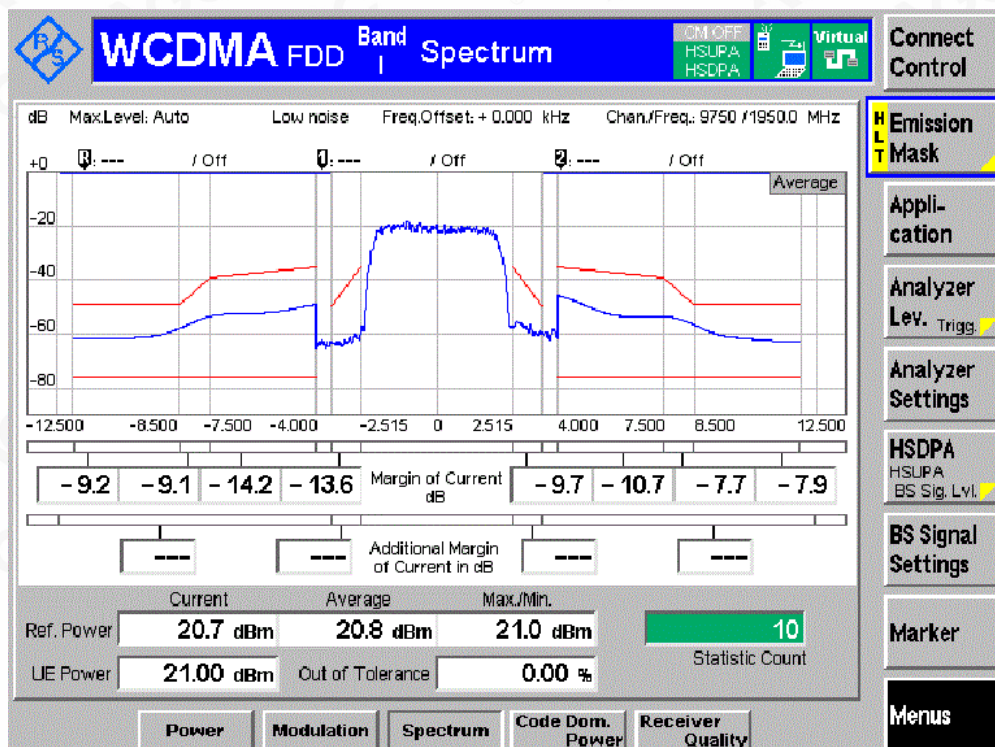




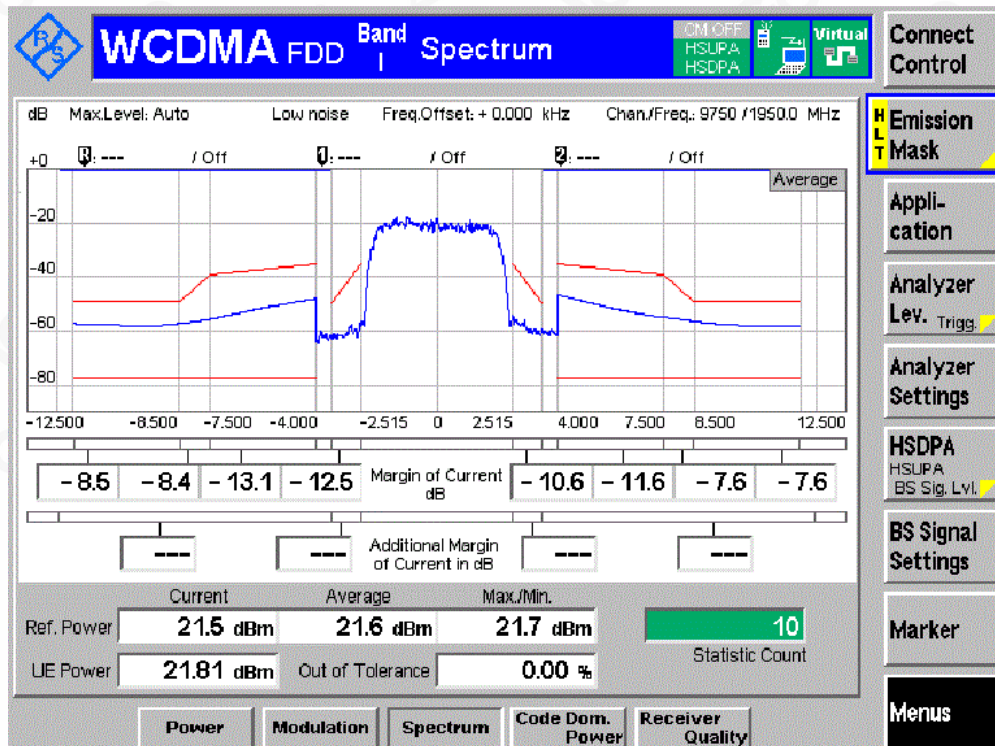
### Sub-test 3



### Sub-test 4

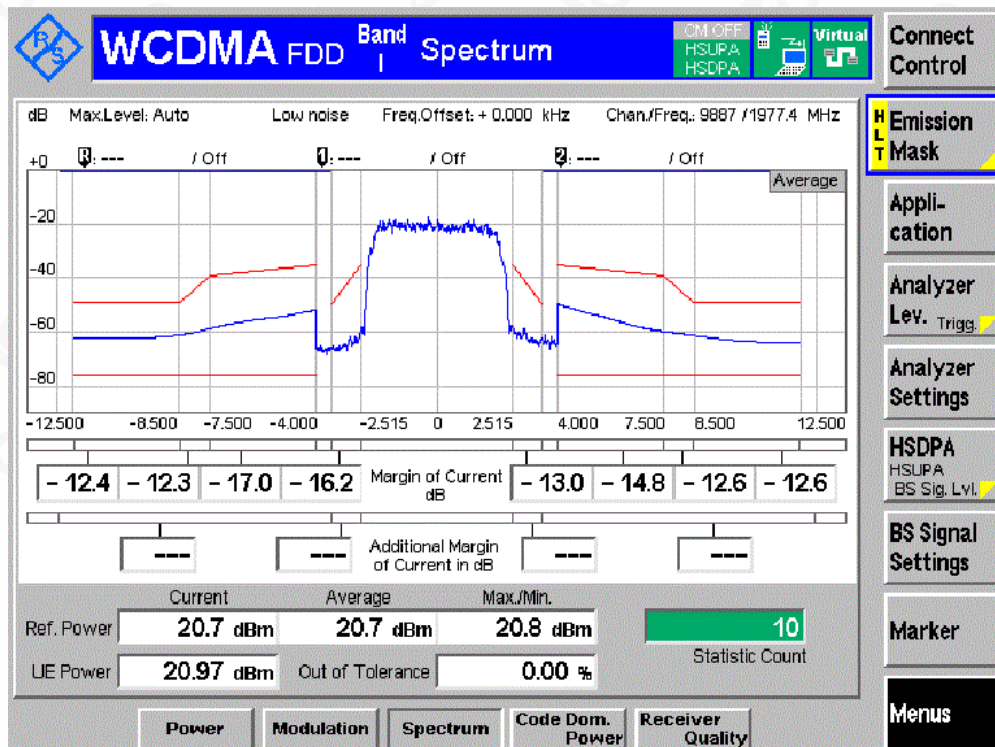


Sub – test 5



Channel HCH

Sub-test 1



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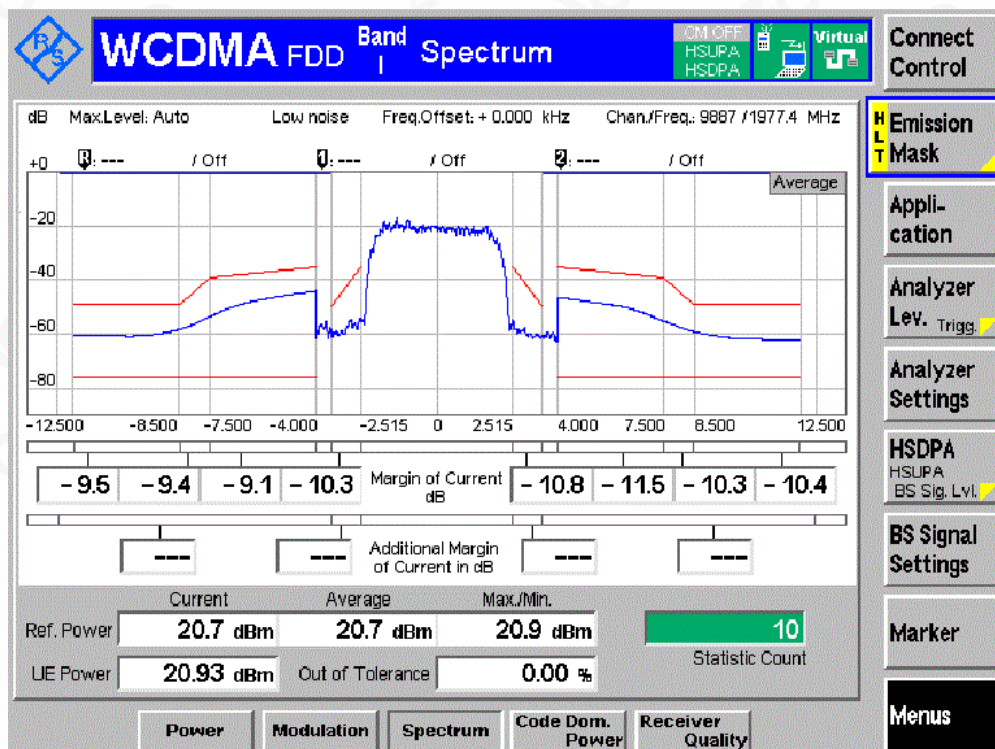
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

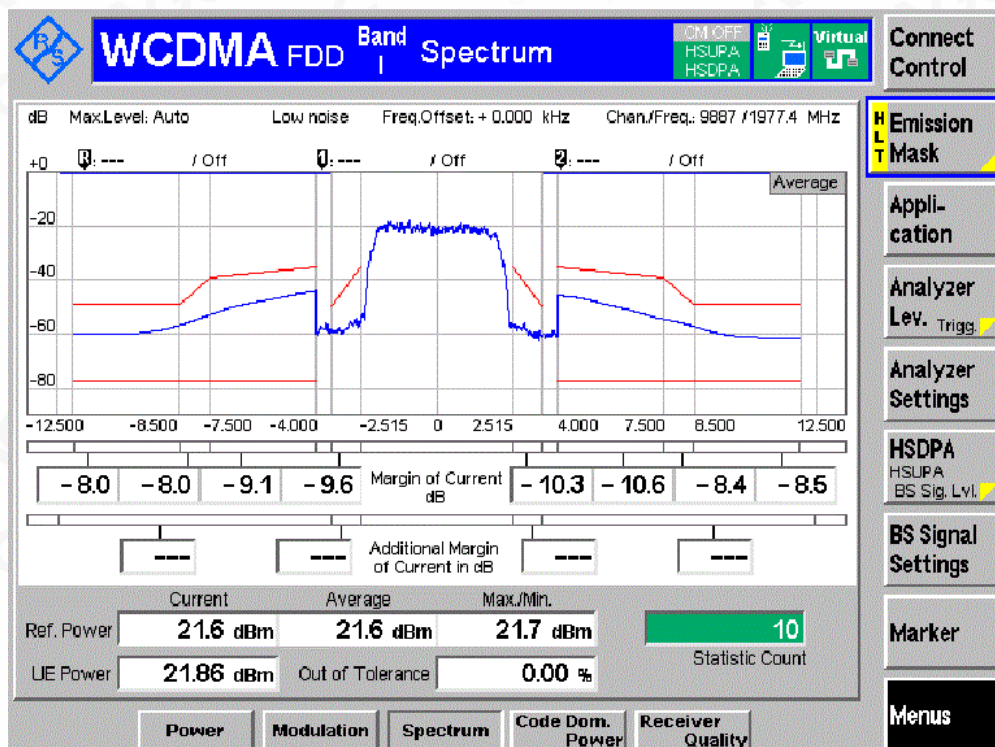
Service Hotline: 400 089 2118



### Sub-test 2

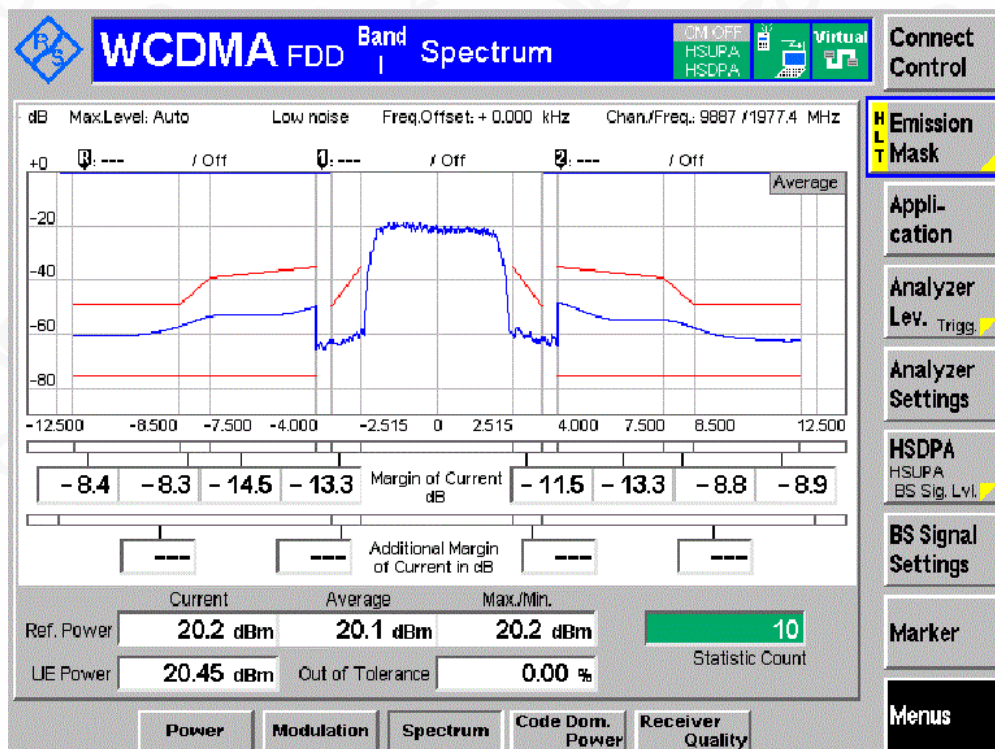


### Sub-test 3

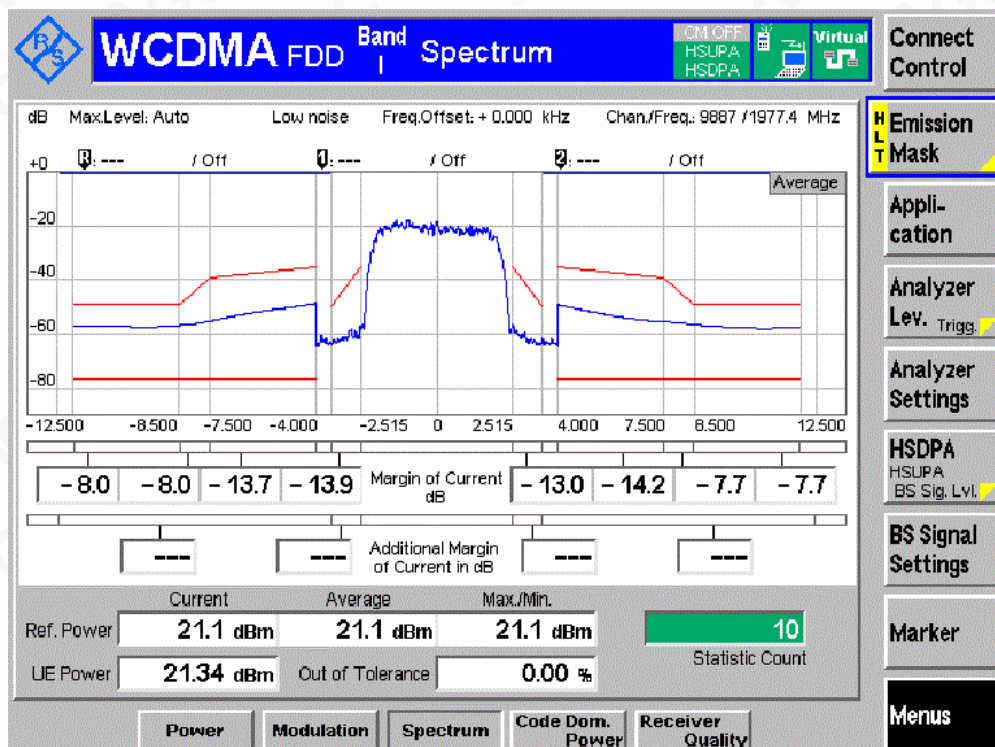




#### Sub-test 4



#### Sub-test 5



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## Appendix K. Transmitter adjacent channel leakage power ratio with HS-DPPCH and E-DCH

Note: All test modes were carried out for all operation modes and record the worst test mode (BAND I TNVN) of fellow:

Operating Band	Test Conditions	Test Channel	Sub-test	UE Channel	Measurement Data(dBm)	Limit (dBm)	Result
Band I	TNVN	LCH	1	+5MHz	-42.88	-32.2	Pass
				-5 MHz	-45.32	-32.2	Pass
				-10MHz	-56.09	-42.2	Pass
				+10MHz	-55.44	-42.2	Pass
			2	+5MHz	-42.17	-32.2	Pass
				-5 MHz	-44.38	-32.2	Pass
				-10MHz	-55.89	-42.2	Pass
				+10MHz	-54.31	-42.2	Pass
			3	+5MHz	-41.87	-32.2	Pass
				-5 MHz	-43.97	-32.2	Pass
				-10MHz	-55.61	-42.2	Pass
				+10MHz	-54.22	-42.2	Pass
			4	+5MHz	-40.11	-32.2	Pass
				-5 MHz	-42.59	-32.2	Pass
				-10MHz	-54.22	-42.2	Pass
				+10MHz	-53.21	-42.2	Pass
			5	+5MHz	-42.56	-32.2	Pass
				-5 MHz	-44.21	-32.2	Pass
				-10MHz	-49.56	-42.2	Pass
				+10MHz	-49.28	-42.2	Pass
		MCH	1	+5MHz	-44.03	-32.2	Pass
				-5 MHz	-47.12	-32.2	Pass
				-10MHz	-55.40	-42.2	Pass
				+10MHz	-55.46	-42.2	Pass
			2	+5MHz	-39.78	-32.2	Pass
				-5 MHz	-39.70	-32.2	Pass
				-10MHz	-55.57	-42.2	Pass
				+10MHz	-55.30	-42.2	Pass
			3	+5MHz	-38.74	-32.2	Pass
				-5 MHz	-39.41	-32.2	Pass



				-10MHz	-54.10	-42.2	Pass
				+10MHz	-53.76	-42.2	Pass
			4	+5MHz	-42.16	-32.2	Pass
				-5 MHz	-45.12	-32.2	Pass
				-10MHz	-55.15	-42.2	Pass
				+10MHz	-54.59	-42.2	Pass
			5	+5MHz	-42.87	-32.2	Pass
				-5 MHz	-43.68	-32.2	Pass
				-10MHz	-52.64	-42.2	Pass
				+10MHz	-52.38	-42.2	Pass
		HCH	1	+5MHz	-46.07	-32.2	Pass
				-5 MHz	-47.92	-32.2	Pass
				-10MHz	-54.73	-42.2	Pass
				+10MHz	-55.48	-42.2	Pass
			2	+5MHz	-42.43	-32.2	Pass
				-5 MHz	-40.41	-32.2	Pass
				-10MHz	-54.91	-42.2	Pass
				+10MHz	-55.80	-42.2	Pass
			3	+5MHz	-42.04	-32.2	Pass
				-5 MHz	-40.44	-32.2	Pass
				-10MHz	-53.61	-42.2	Pass
				+10MHz	-54.68	-42.2	Pass
			4	+5MHz	-44.57	-32.2	Pass
				-5 MHz	-46.08	-32.2	Pass
				-10MHz	-54.23	-42.2	Pass
				+10MHz	-55.33	-42.2	Pass
			5	+5MHz	-45.29	-32.2	Pass
				-5 MHz	-44.50	-32.2	Pass
				-10MHz	-51.97	-42.2	Pass
				+10MHz	-52.33	-42.2	Pass

## BAND I

TNVN

Channel LCH



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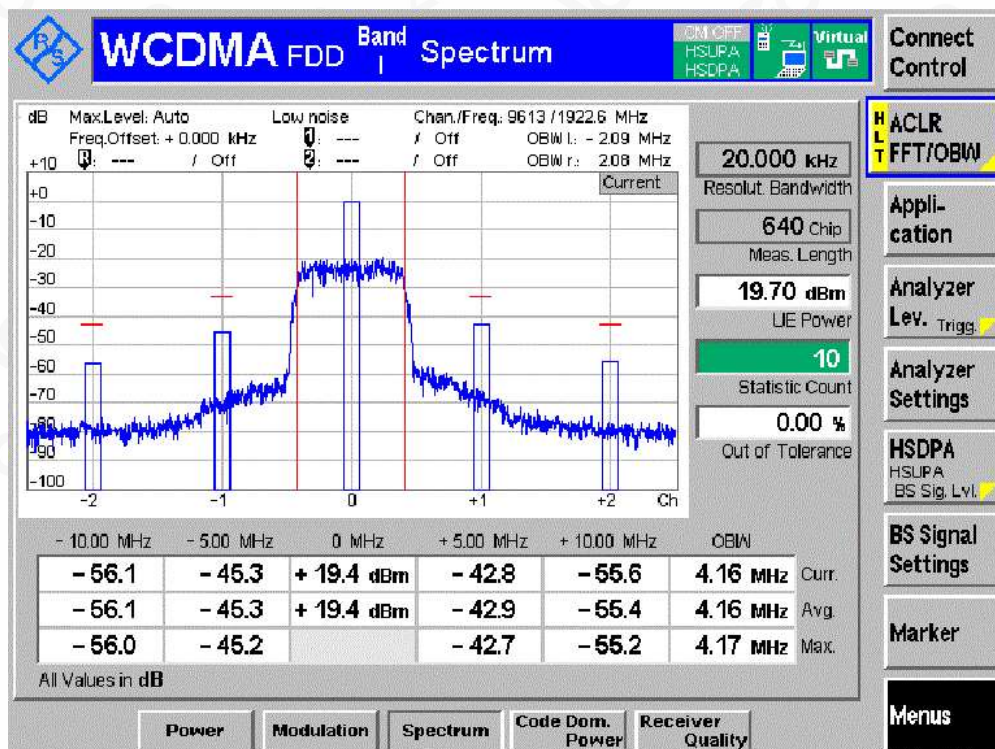
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

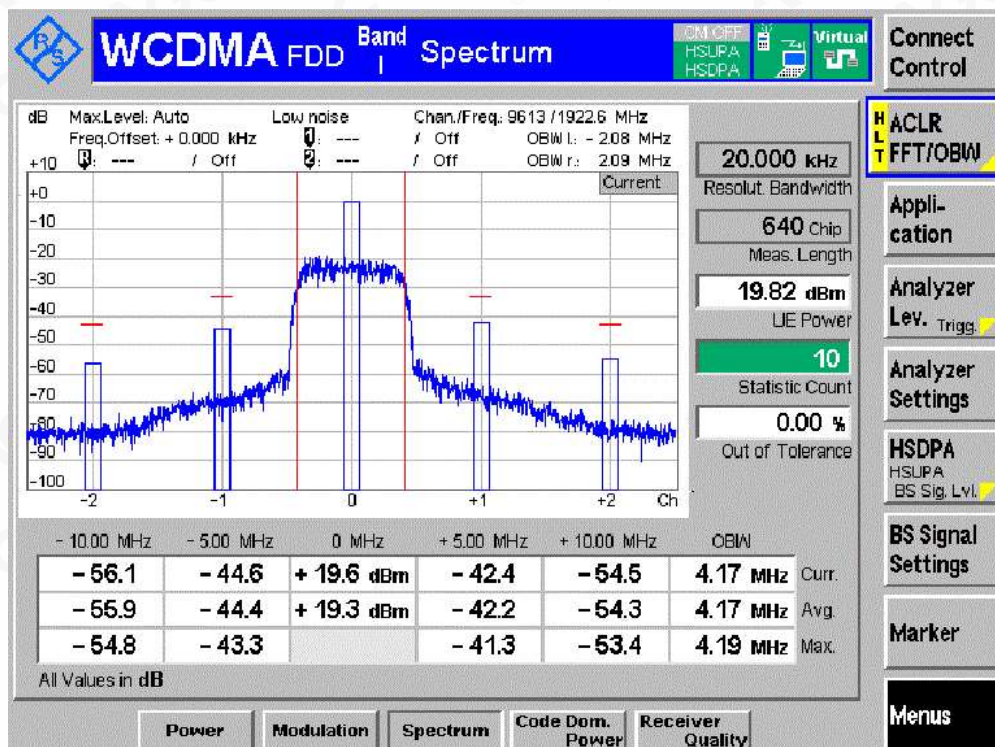
Service Hotline: 400 089 2118



### Sub-test 1



### Sub-test 2



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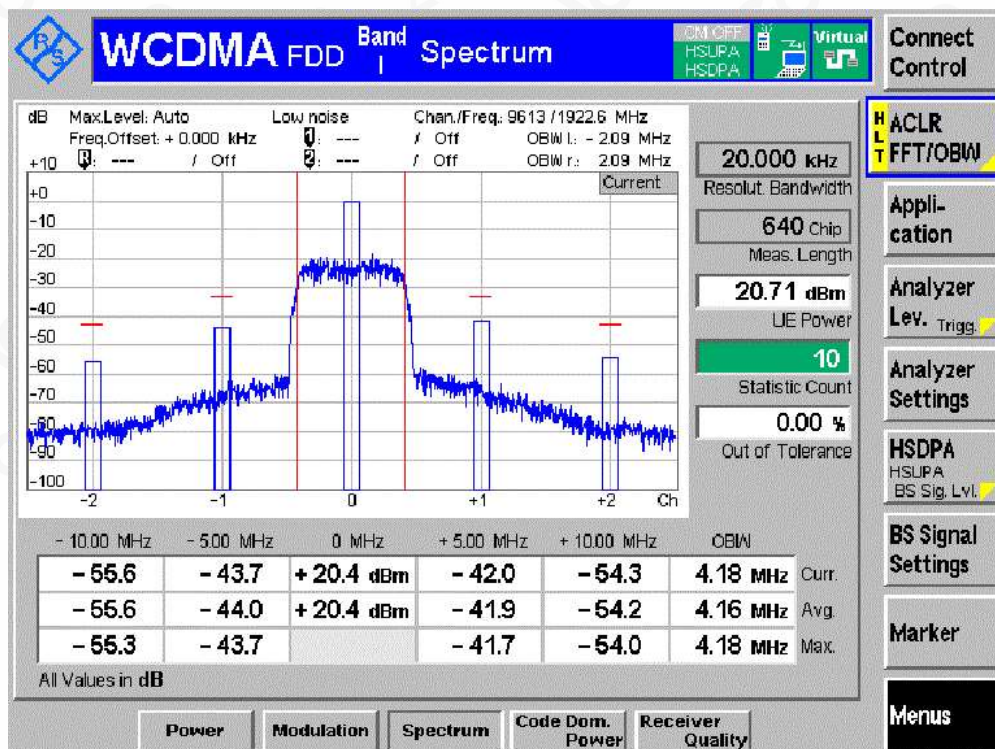
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

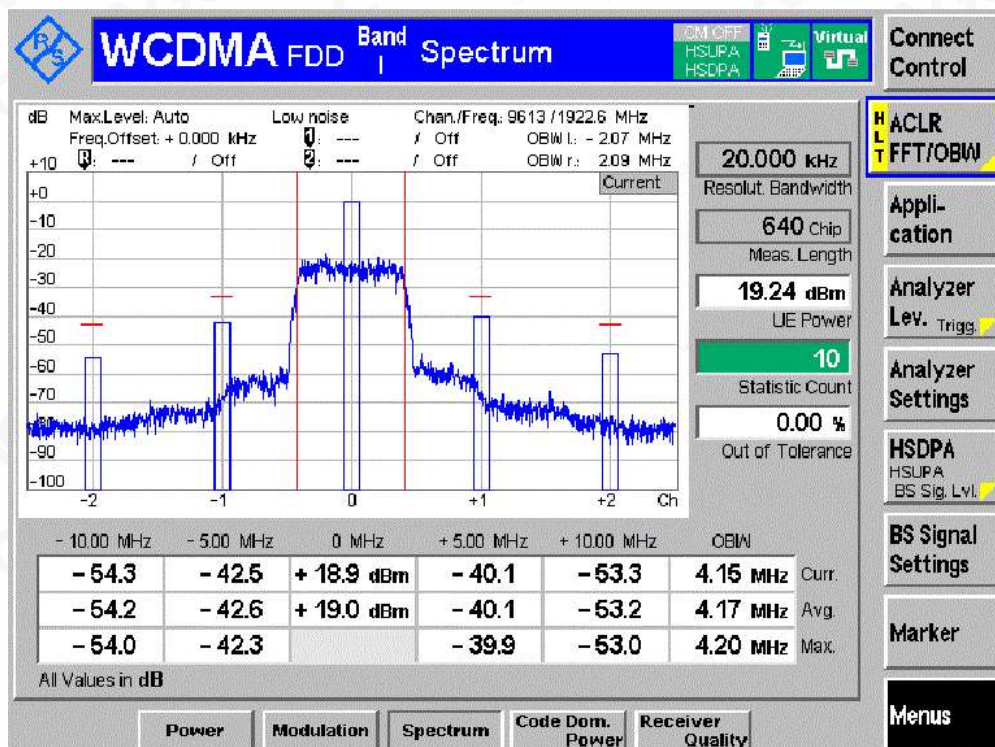
Service Hotline: 400 089 2118



### Sub-test 3

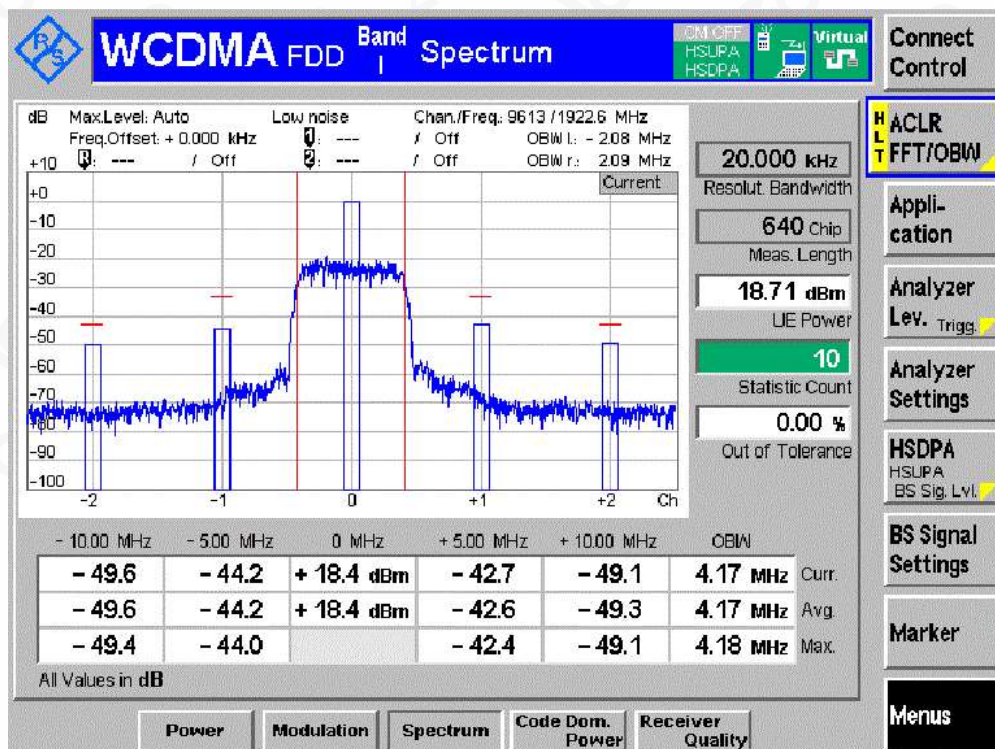


### Sub-test 4



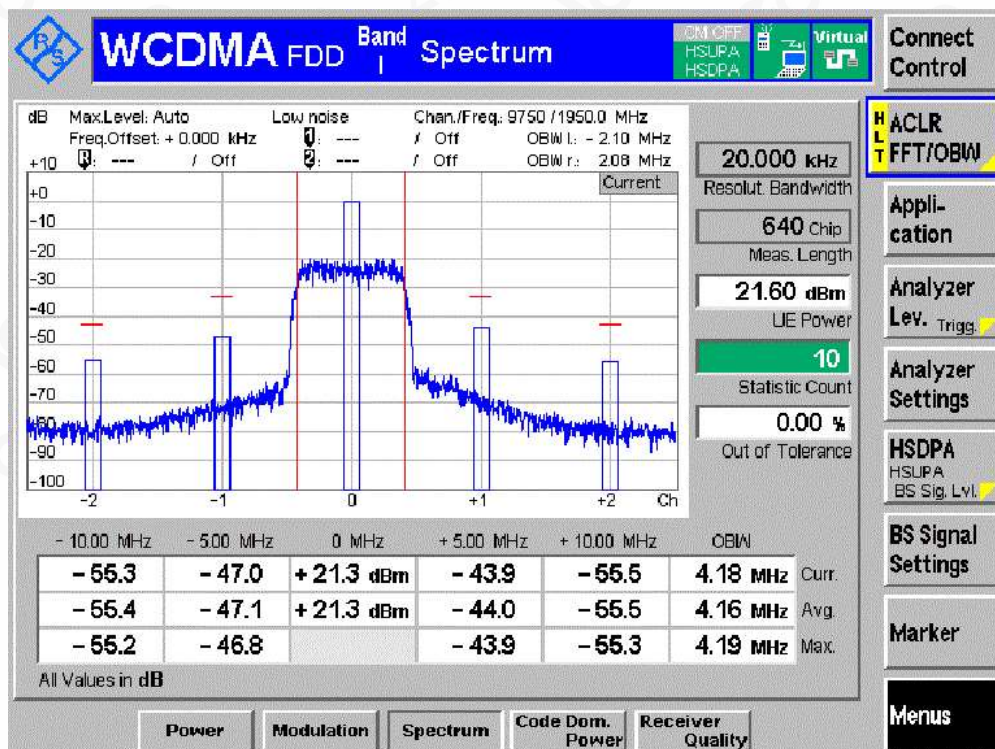


Sub-test 5



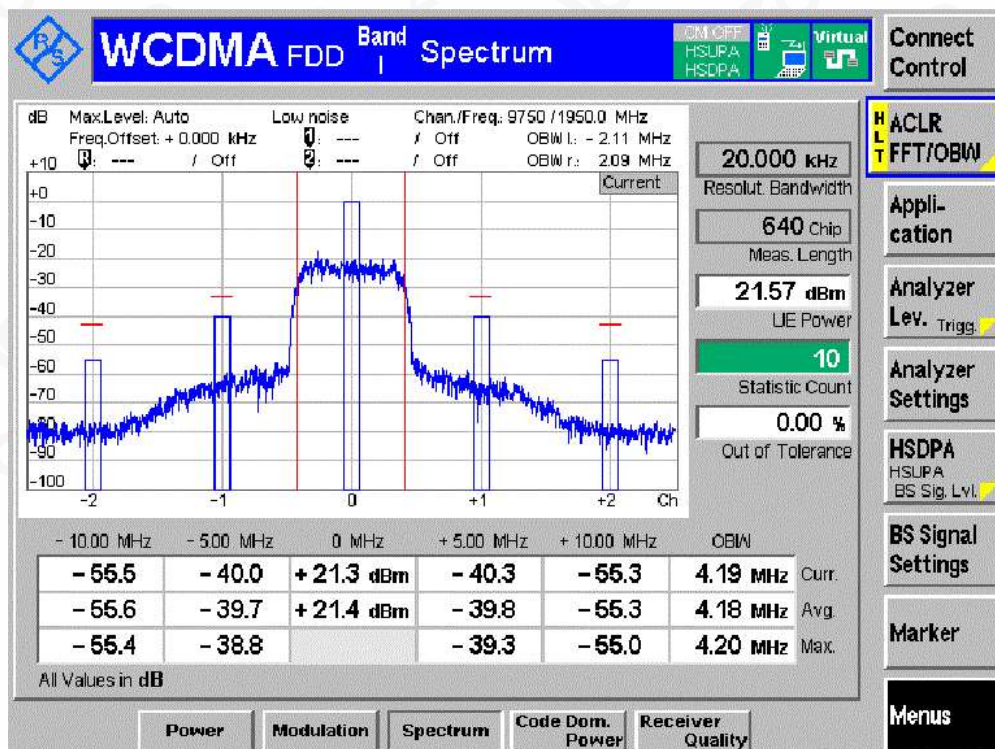
Channel MCH

Sub-test 1

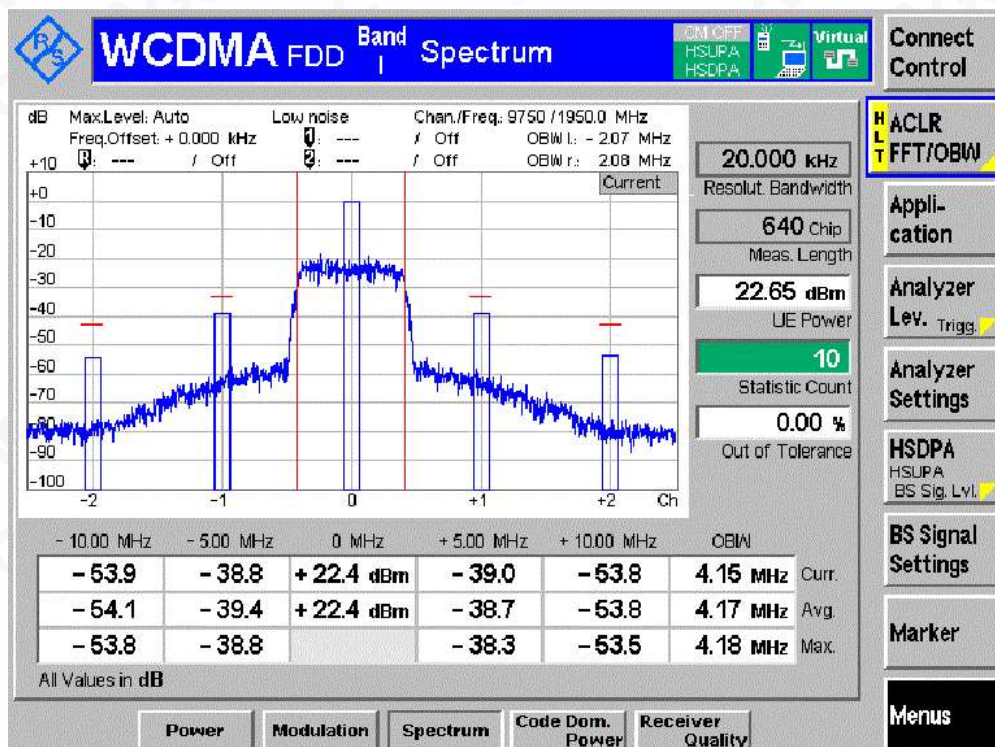




### Sub-test 2



### Sub-test 3



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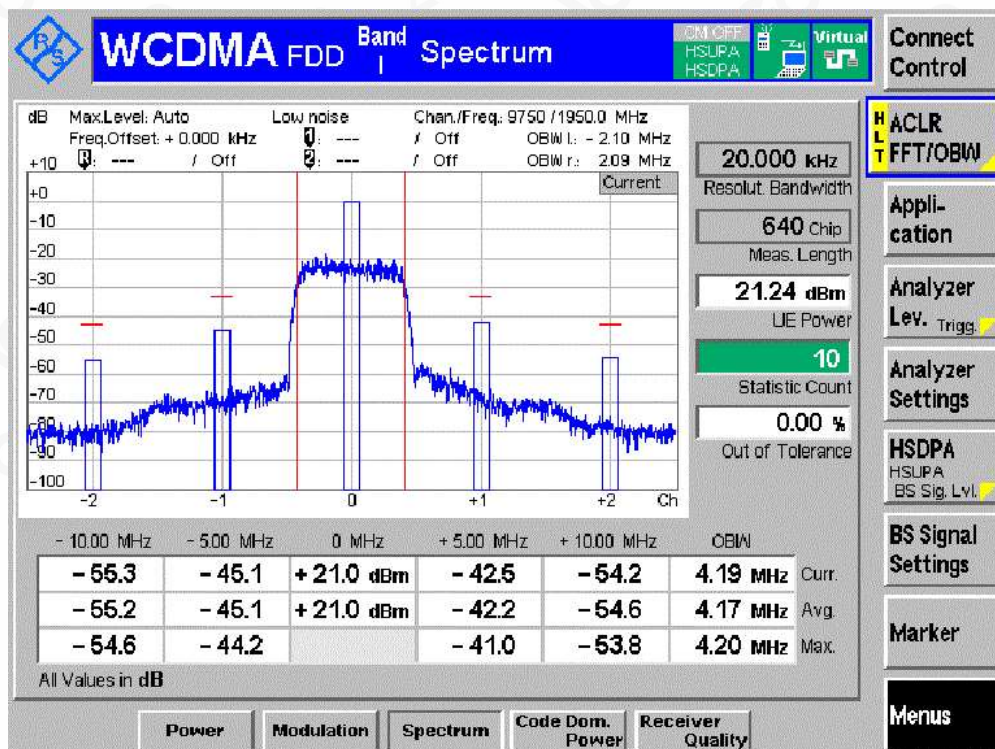
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E-mail: agc@agc-cert.com

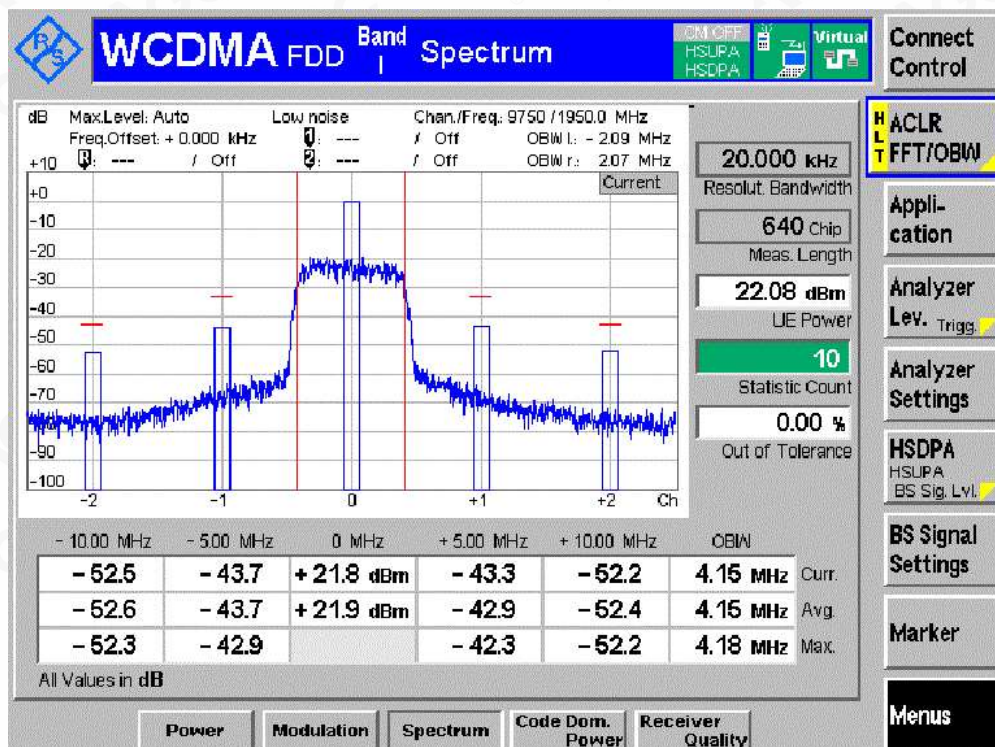
Service Hotline: 400 089 2118



#### Sub-test 4

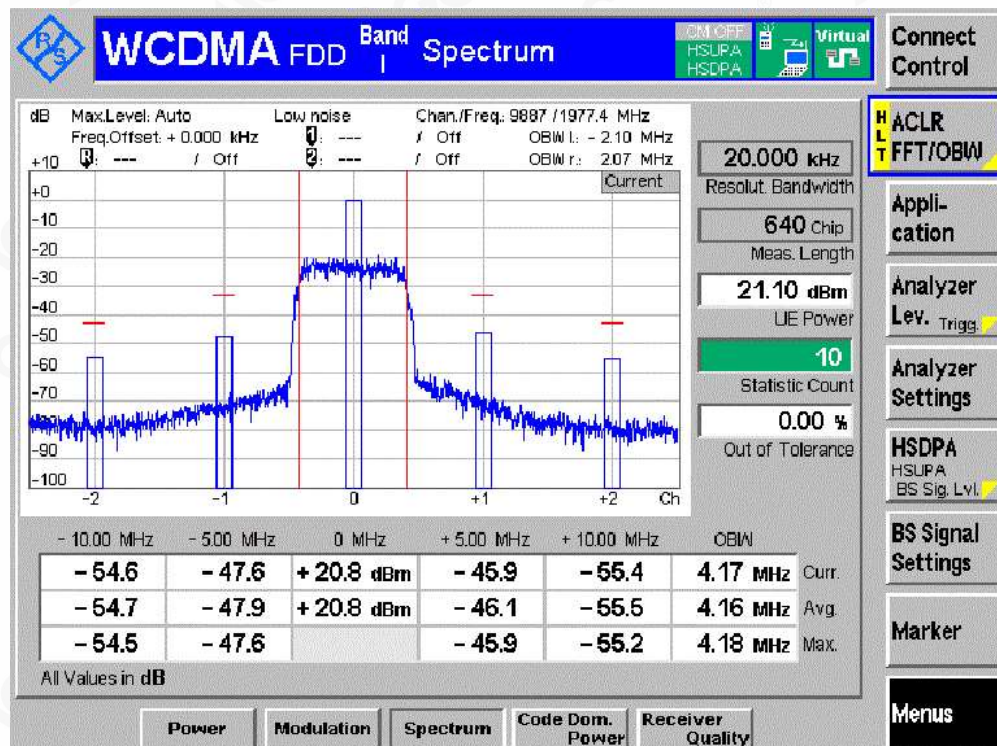


#### Sub-test 5

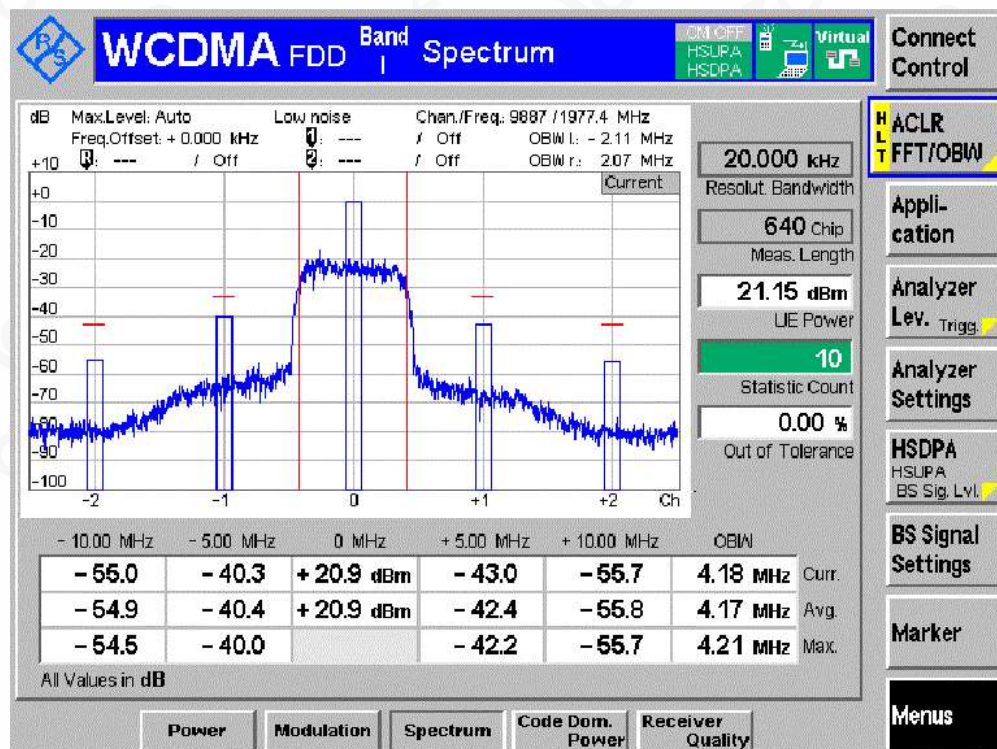




Channel HCH  
Sub-test 1

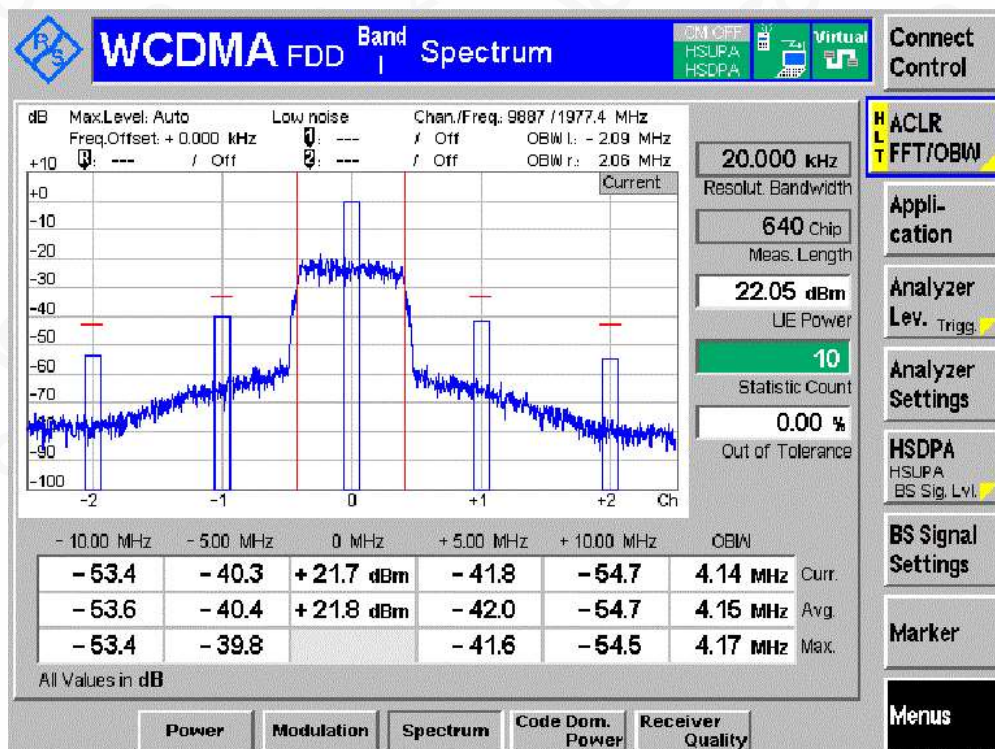


Sub-test 2

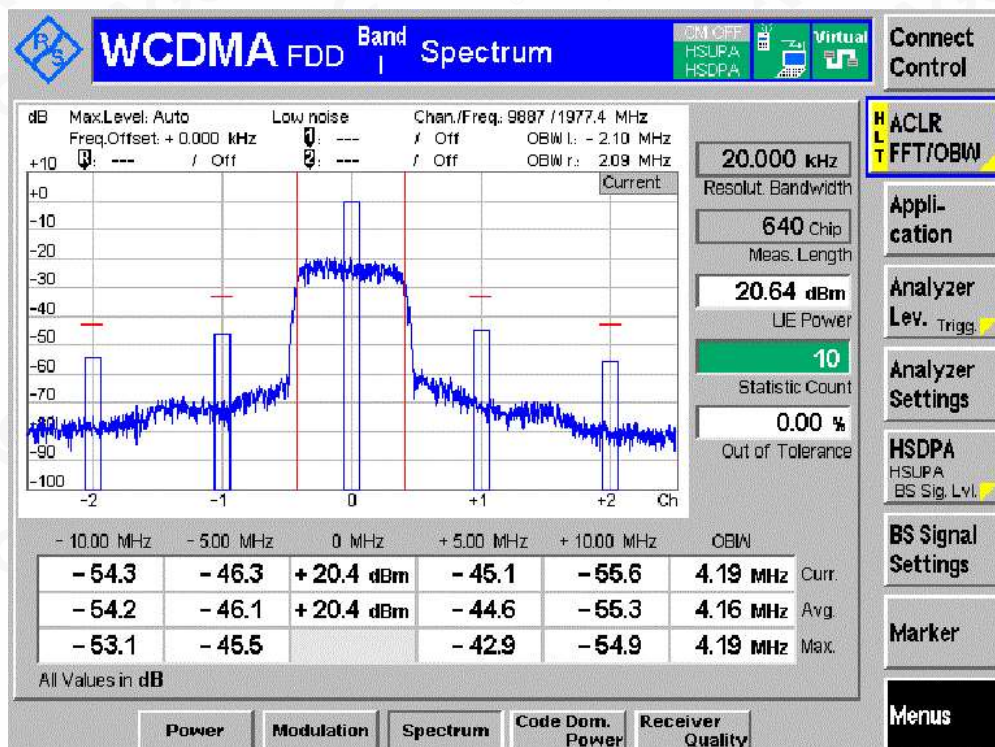




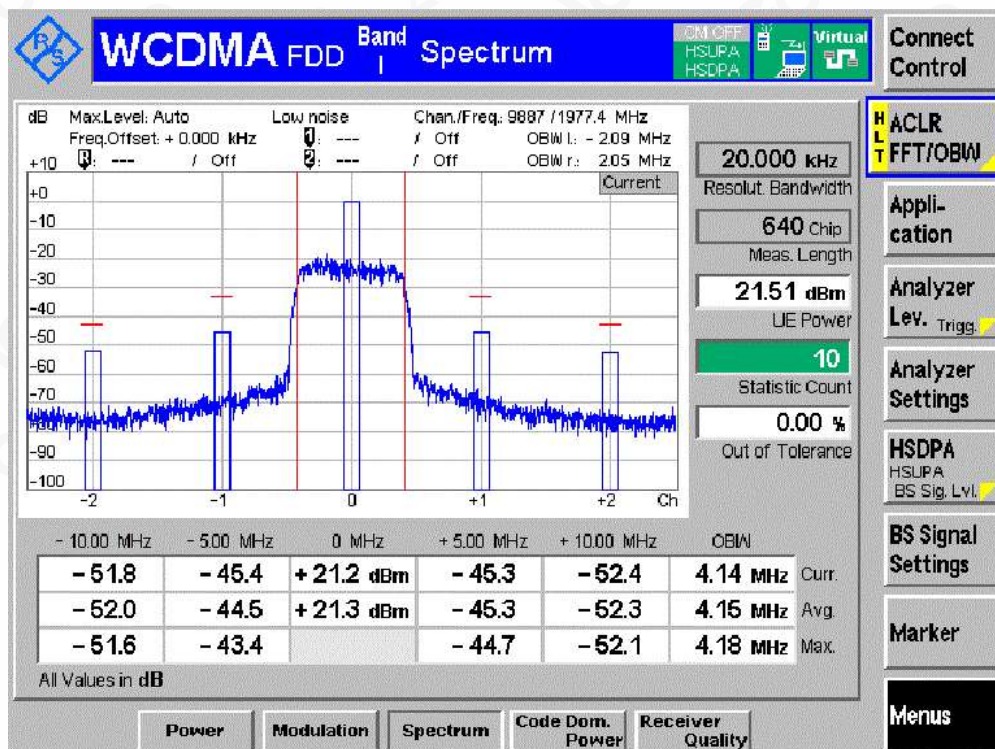
### Sub-test 3



### Sub-test 4



Sub-test 5



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## Appendix L. Receiver spurious emissions

Note: All test modes were carried out for all operation modes and record the worst test mode (BAND I TNVN) of fellow:

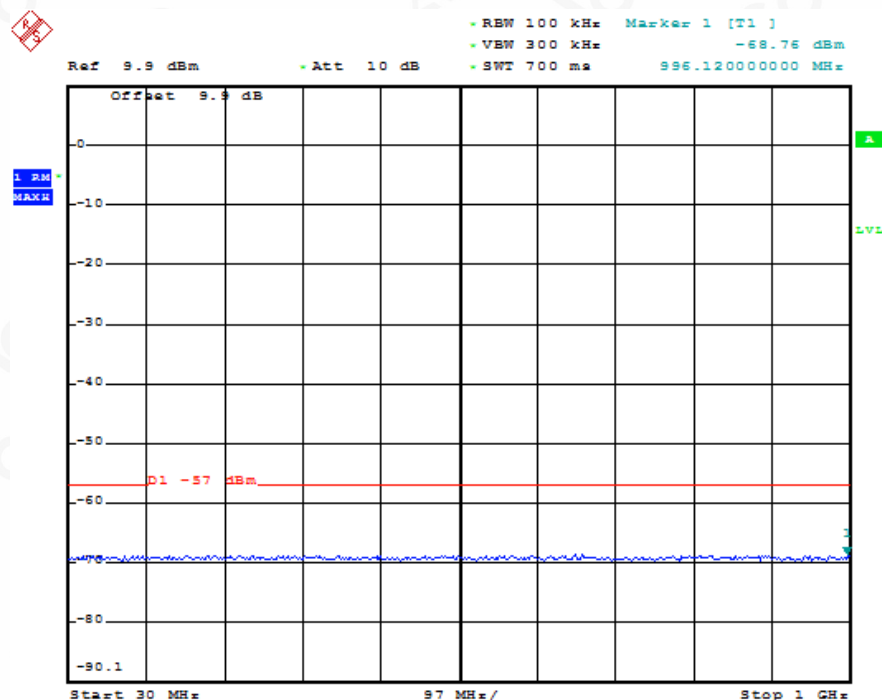
Frequency	RBW	Max .Level (dbm)	Test Band=Band I			Result
			Test Conditions=TNVN			
			Test Channel			
			LCH	MCH	HCH	
30 MHz ≤f < 1 GHz	100 kHz	-57	-68.76	-68.40	-68.41	Pass
1 GHz ≤f ≤ 12,75 GHz	1 MHz	-47	-55.67	-55.70	-55.60	Pass
791 MHz ≤f ≤ 821 MHz	3,84 MHz	-60	-67.72	-67.70	-67.73	Pass
921 MHz ≤f < 925 MHz	100 kHz	-60	-60.21	-60.06	-60.24	Pass
925 MHz ≤f ≤ 935 MHz	100 kHz	-67	-67.82	-67.81	-67.85	Pass
935 MHz < f ≤ 960 MHz	100 kHz	-79	-87.39	-87.38	-87.31	Pass
1805MHz ≤f ≤ 1880MHz	100 kHz	-60	-81.00	-81.00	-80.96	Pass
1920MHz ≤f ≤ 1980MHz	3,84 MHz	-60	-68.40	-68.38	-68.41	Pass
2 110 MHz ≤f ≤ 2 170 MHz	3,84 MHz	-60	-66.19	-66.24	-66.24	Pass
2 585 MHz ≤f ≤ 2 690 MHz	3,84 MHz	-60	-61.60	-61.59	-61.64	Pass

## BAND I

Channel LCH



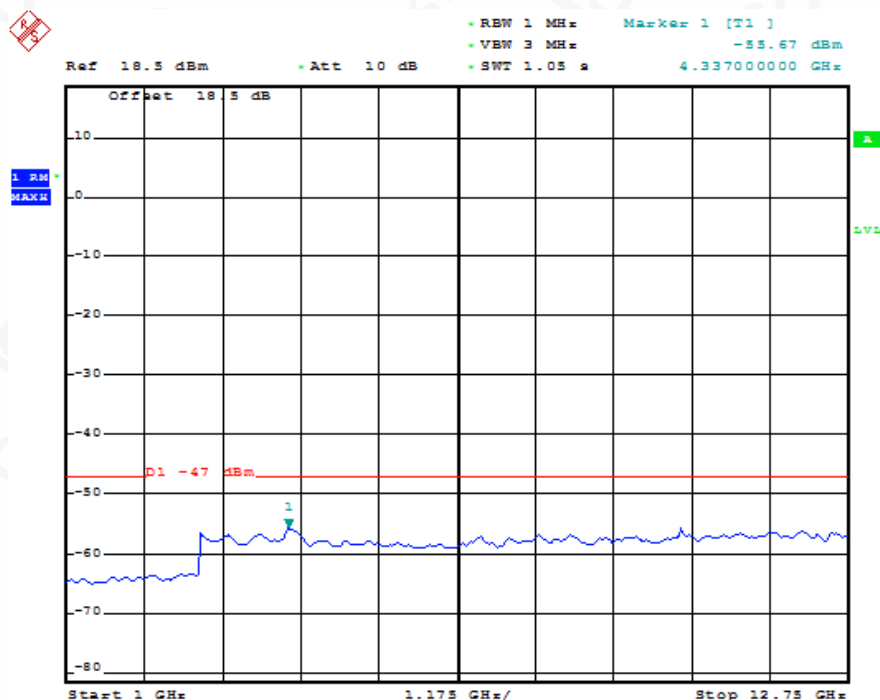
30MHZ-1GHZ



AAA

Date: 16.JAN.2020 09:37:10

1GHZ-12.75GHZ



AAA

Date: 16.JAN.2020 09:37:42



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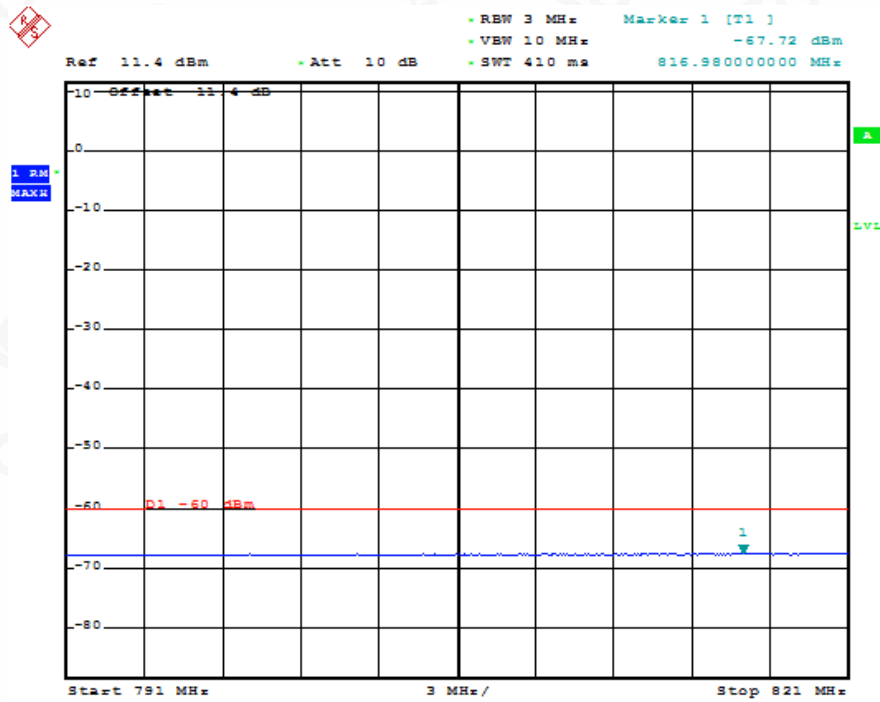
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

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791MHZ~821MHZ

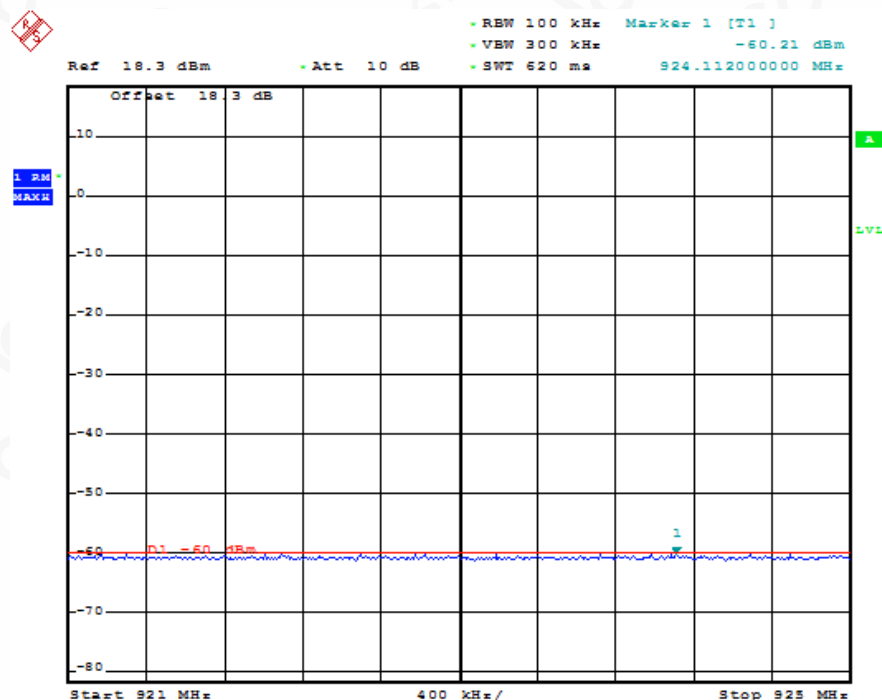


AAA

Date: 16.JAN.2020 09:38:01



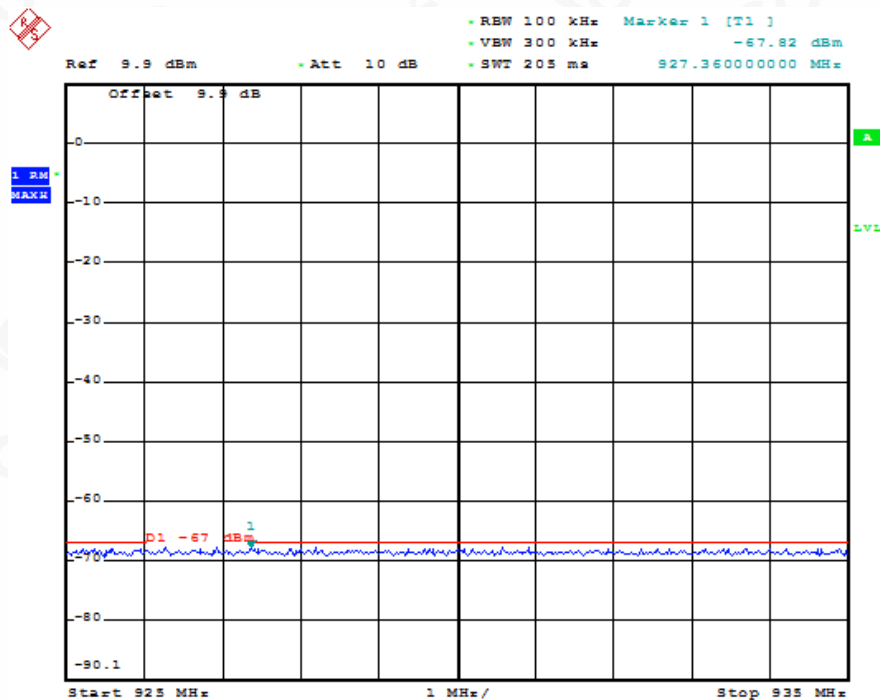
921MHZ~925MHZ



AAA

Date: 16.JAN.2020 09:38:33

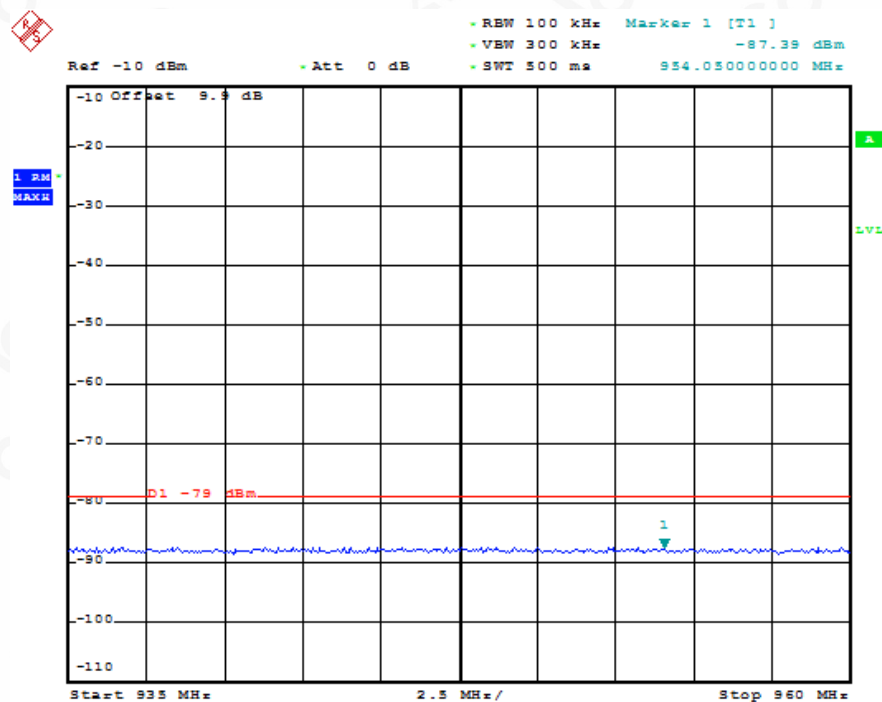
925MHZ~935MHZ



AAA

Date: 16.JAN.2020 09:38:59

935MHZ~960MHZ

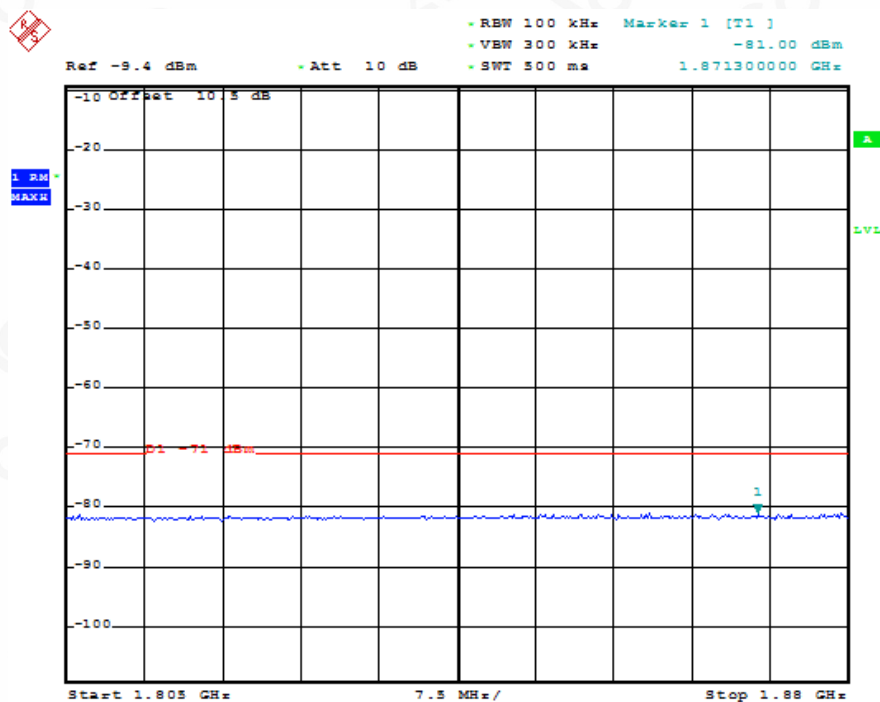


AAA

Date: 16.JAN.2020 09:39:07



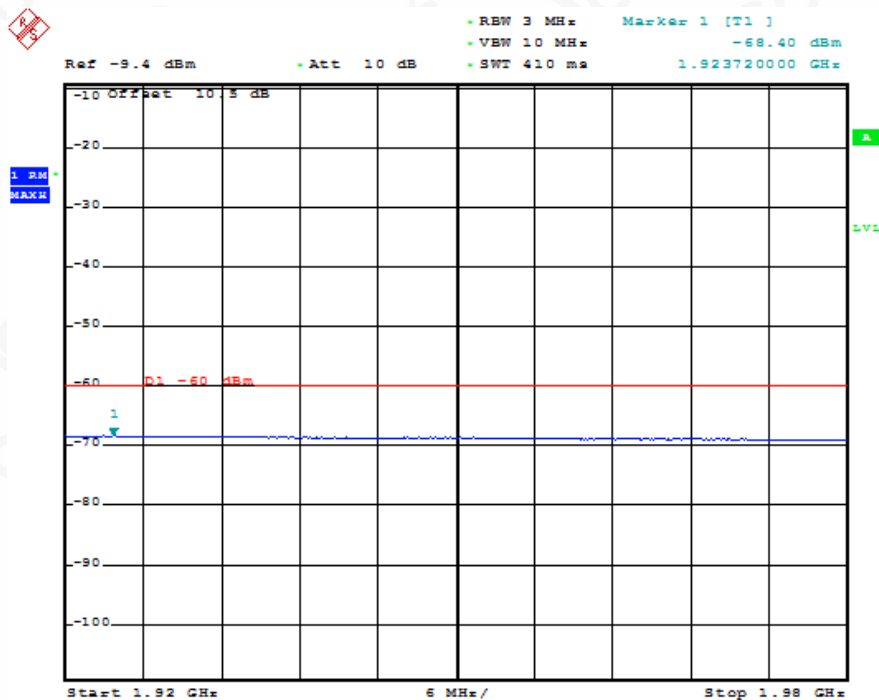
1805MHZ~1880MHZ



AAA

Date: 16.JAN.2020 09:39:14

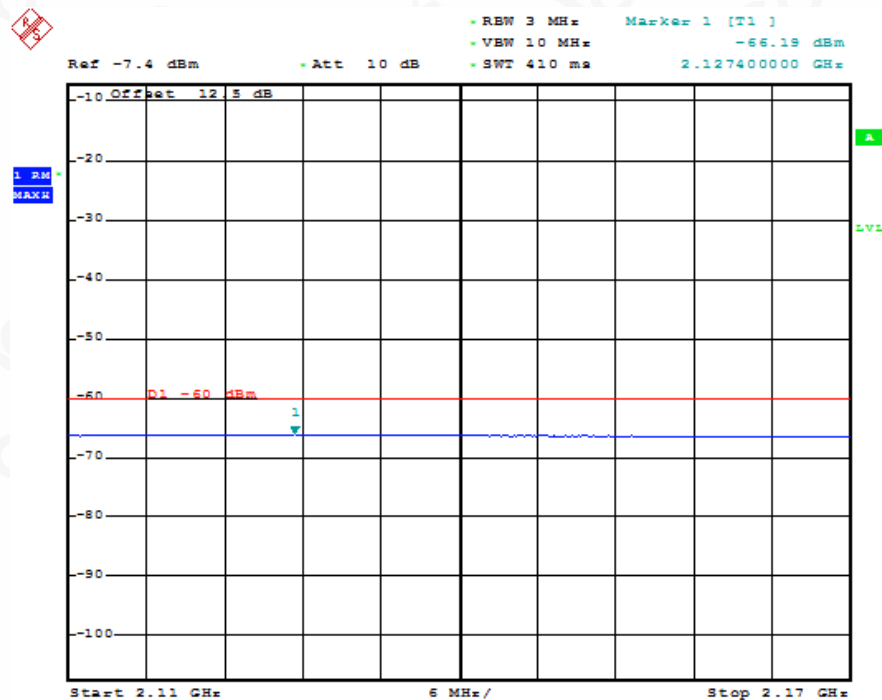
1920MHZ~1980MHZ



AAA

Date: 16.JAN.2020 09:39:34

2110MHZ~2170MHZ



AAA

Date: 16.JAN.2020 09:39:53





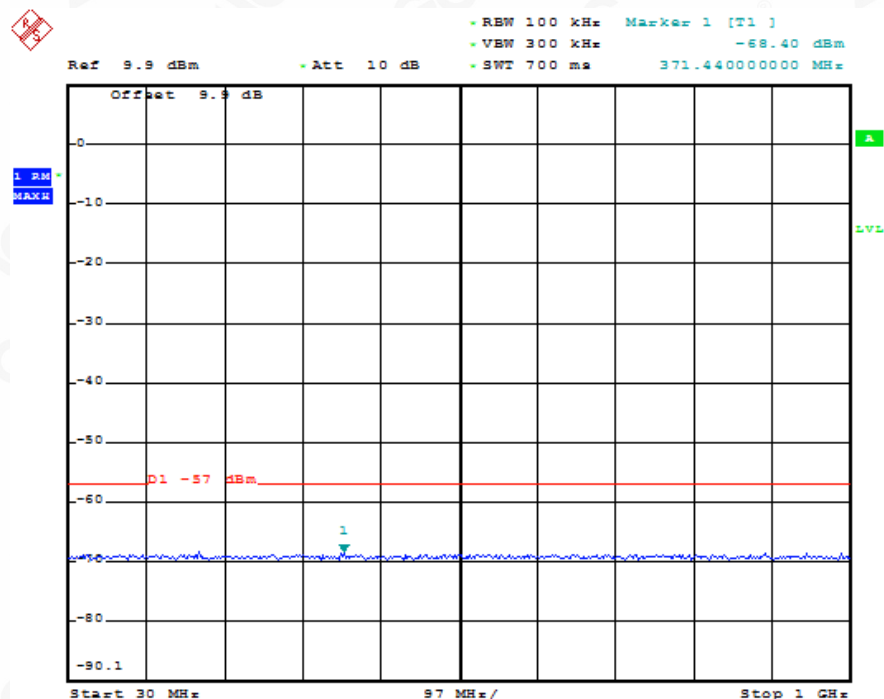
Date: 16.JAN.2020 09:40:25



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Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline: 400 089 2118

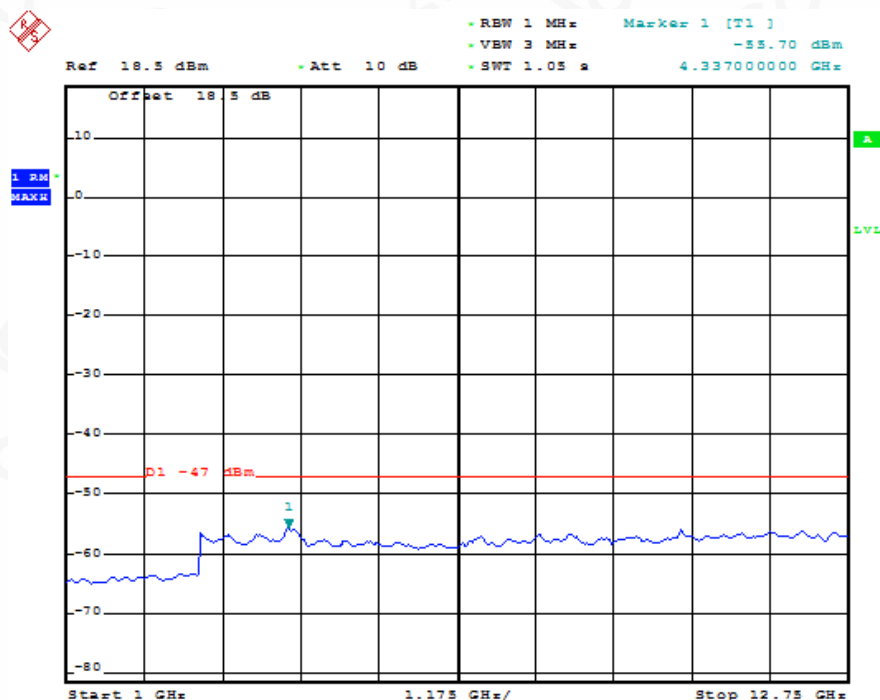
**Channel MCH**  
30MHZ~1GHZ



AAA

Date: 16.JAN.2020 09:41:13

1GHZ-12.75GHZ



AAA

Date: 16.JAN.2020 09:41:45



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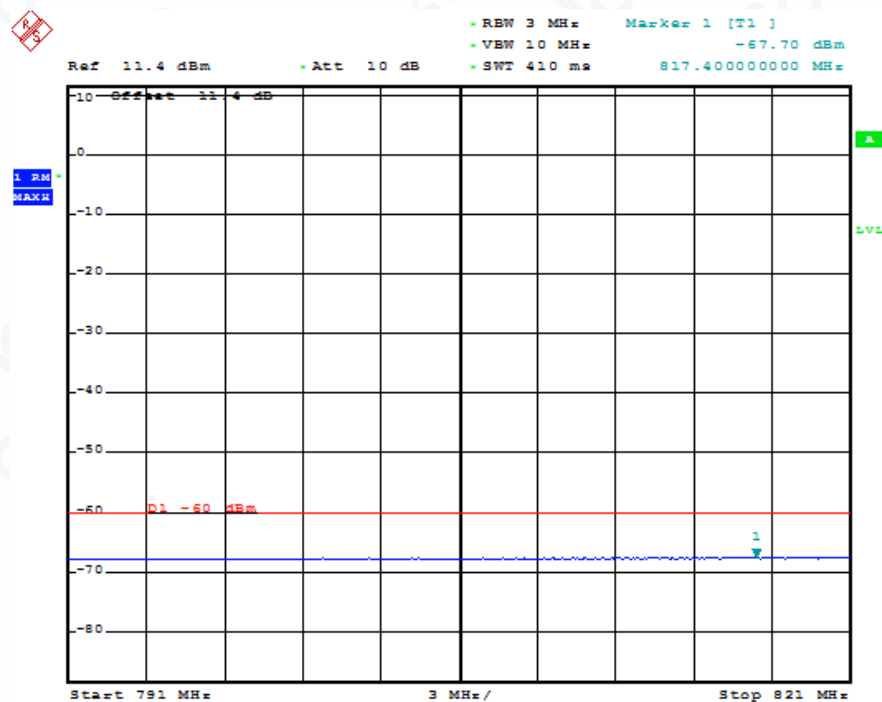
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118



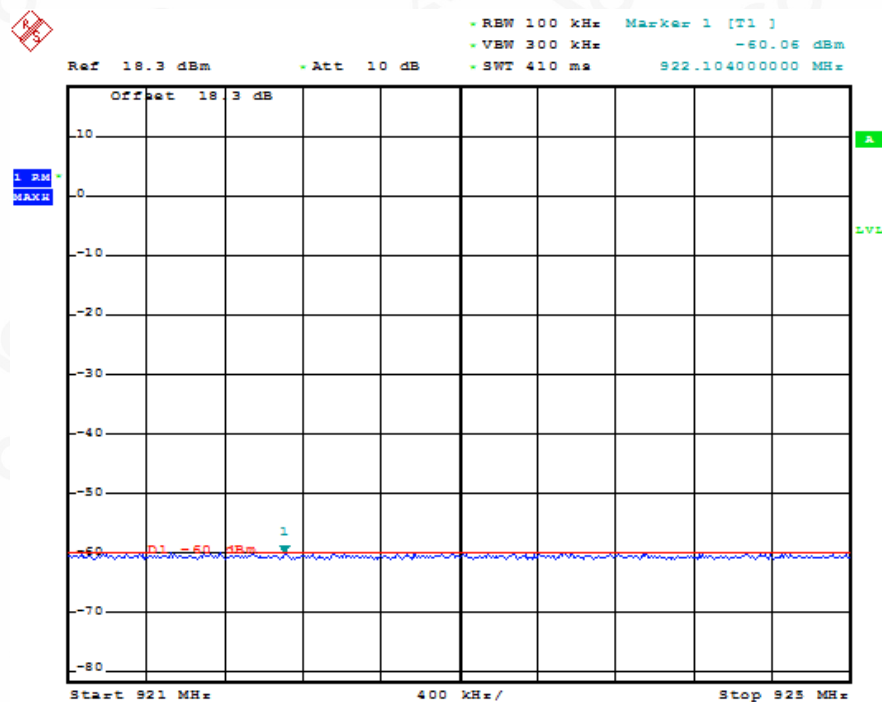
791MHZ~821MHZ



AAA

Date: 16.JAN.2020 09:42:04

921MHZ~925MHZ



AAA

Date: 16.JAN.2020 09:42:36



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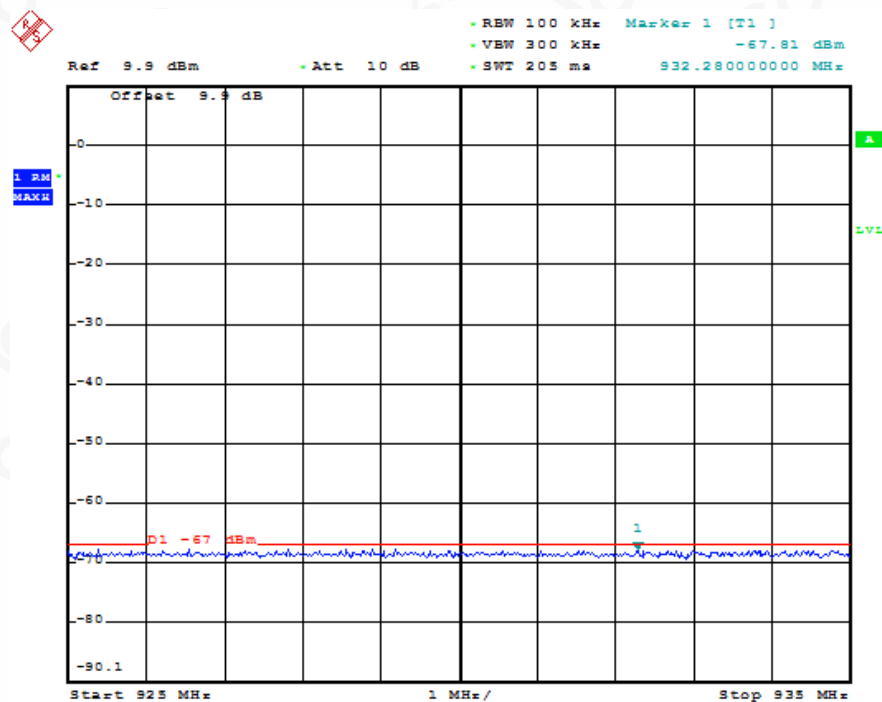
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
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925MHZ~935MHZ

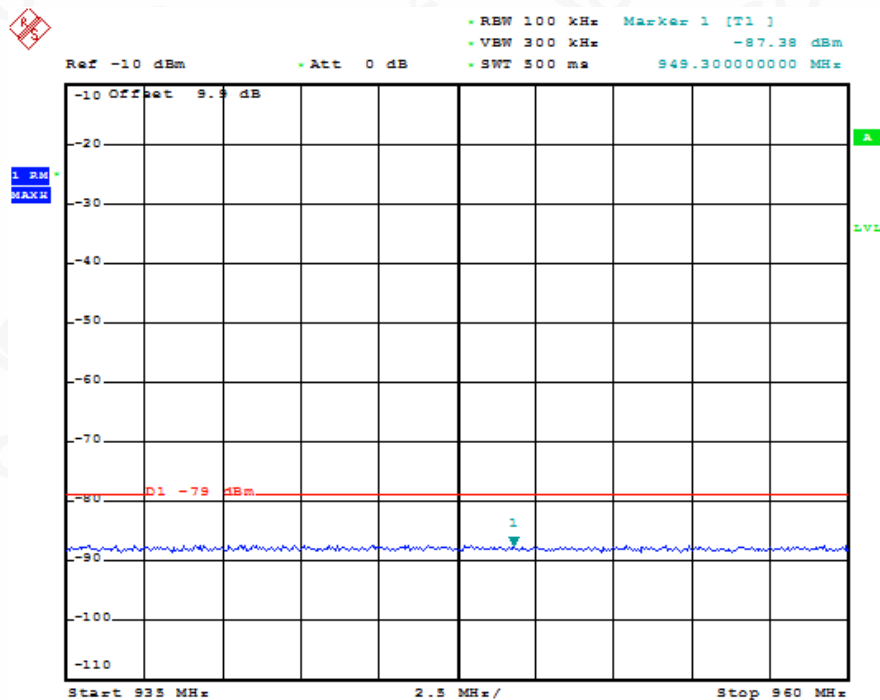


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Date: 16.JAN.2020 09:43:02



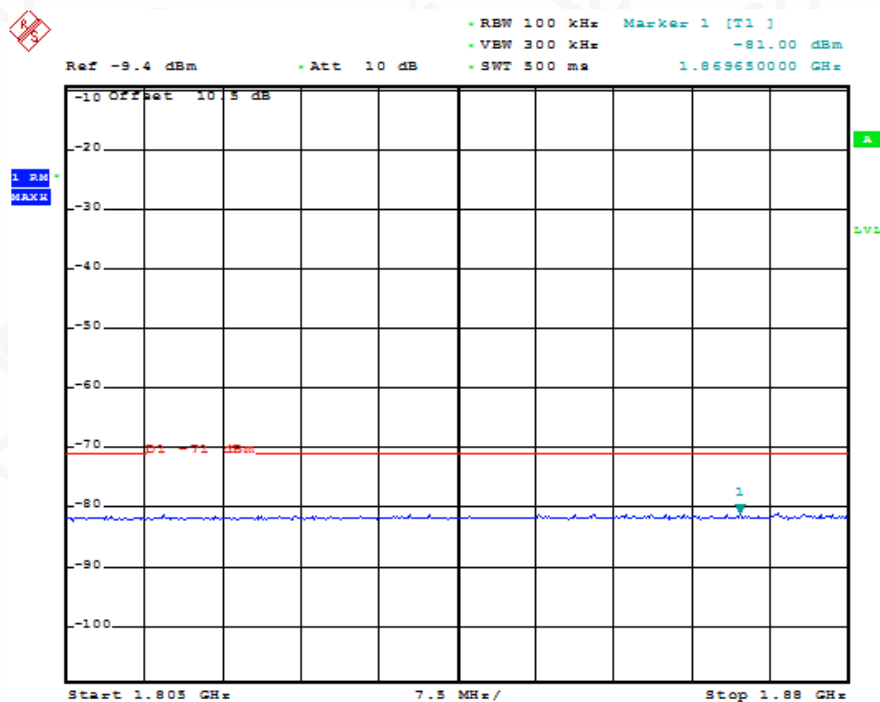
935MHZ~960MHZ



AAA

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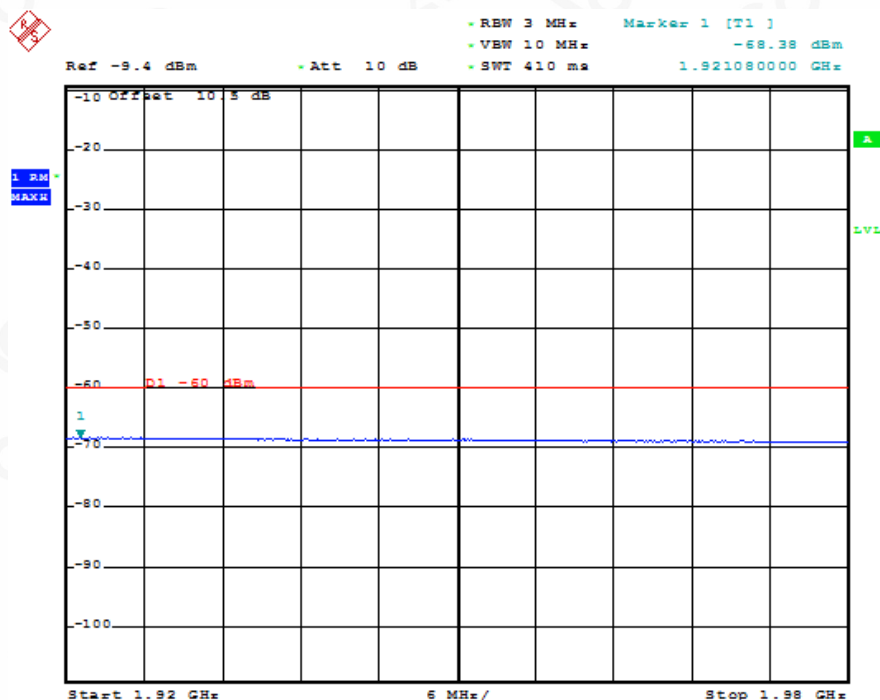
1805MHZ~1880MHZ



AAA

Date: 16.JAN.2020 09:43:17

1920MHZ~1980MHZ

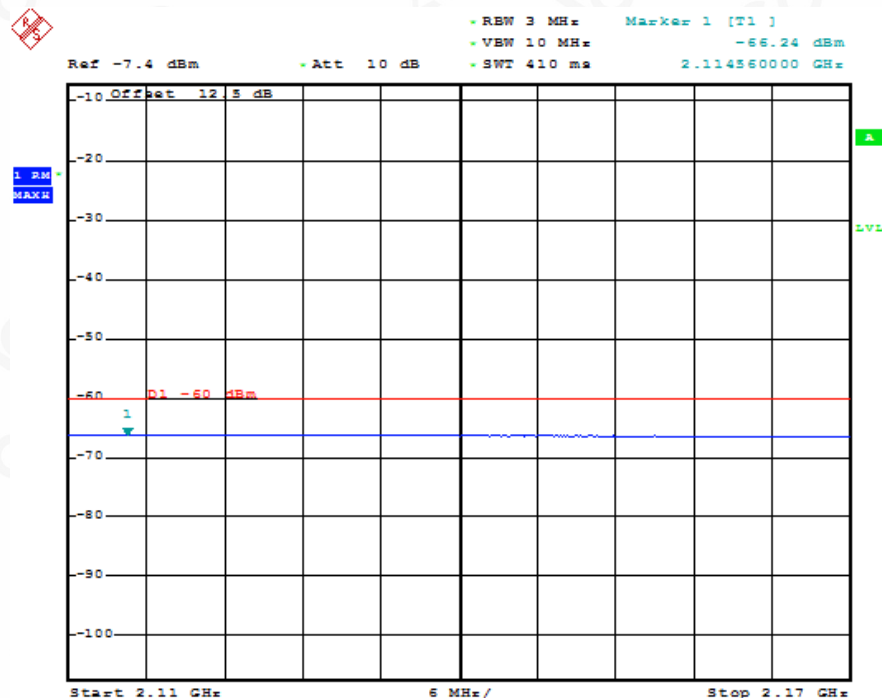


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Date: 16.JAN.2020 09:43:37



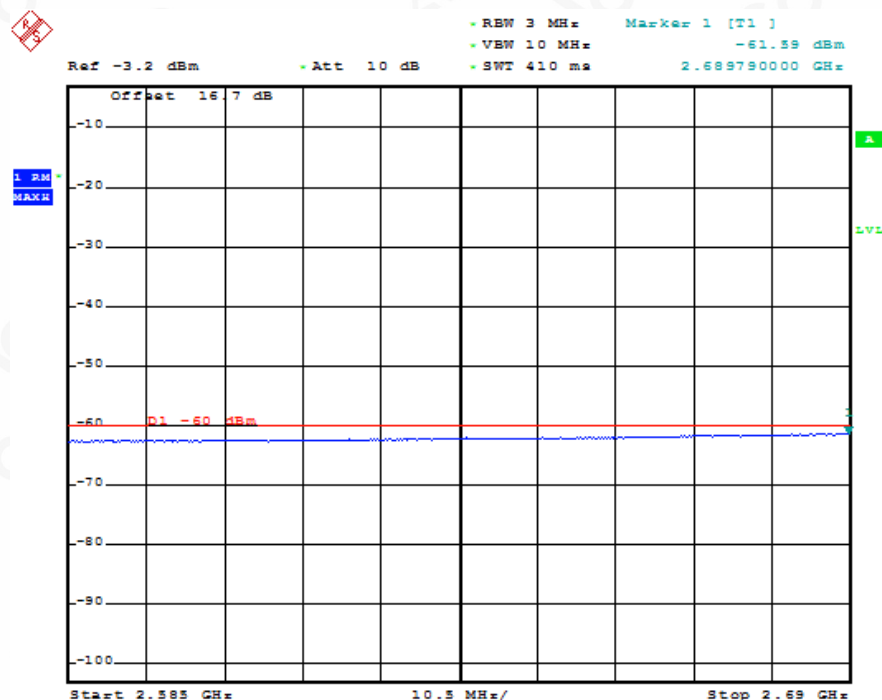
2110MHZ~2170MHZ



AAA

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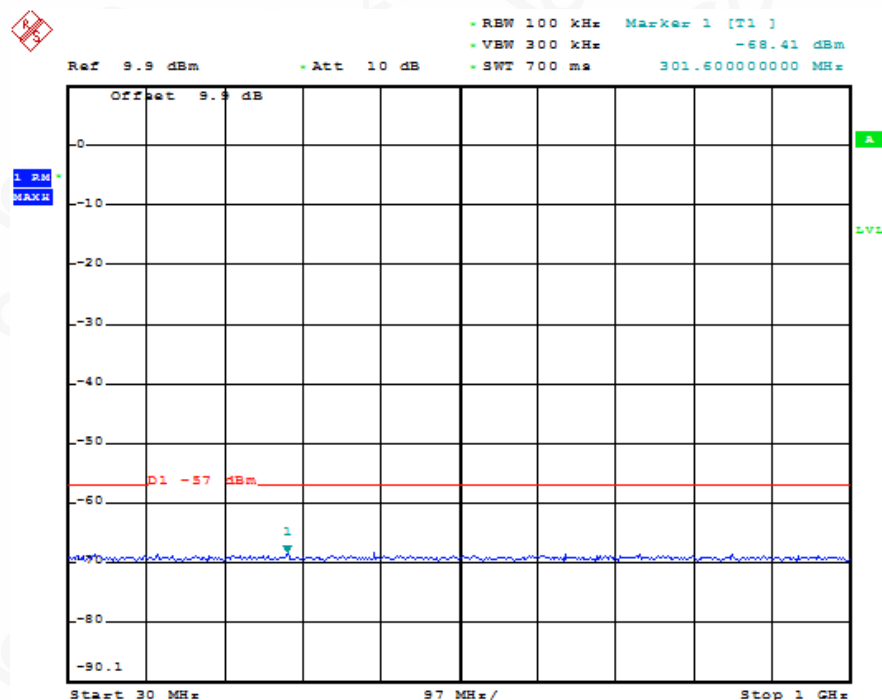
2585MHZ~2690MHZ



AAA

Date: 16.JAN.2020 09:44:28

**Channel HCH**  
**30MHZ~1GHZ**

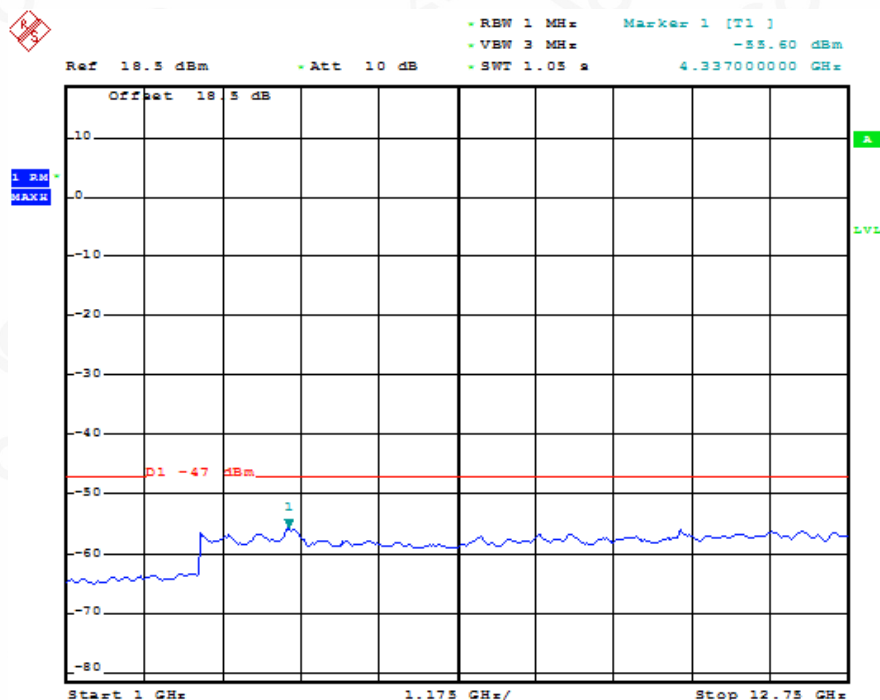


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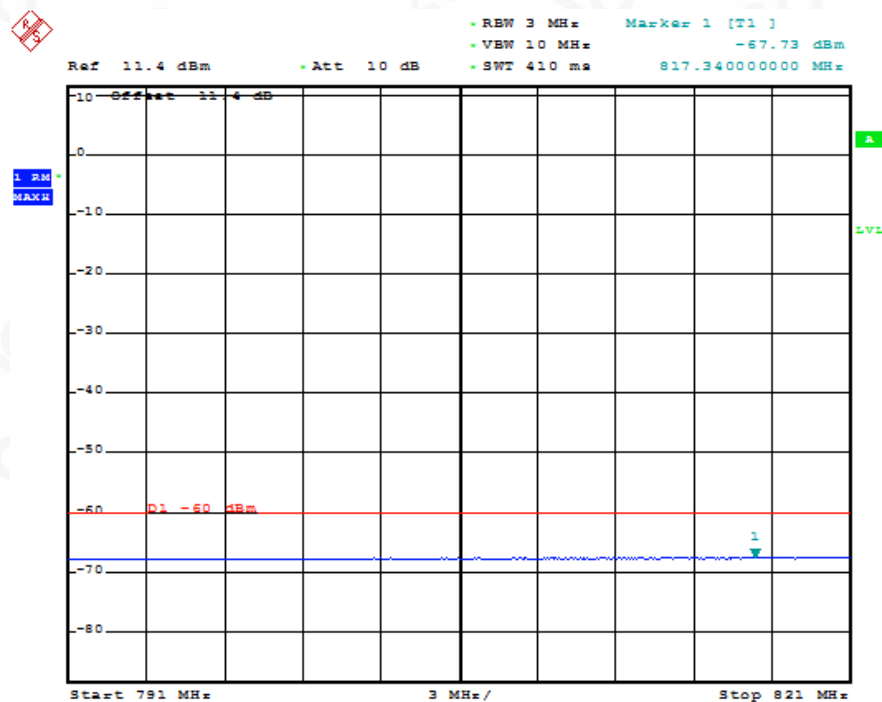
1GHZ-12.75GHZ



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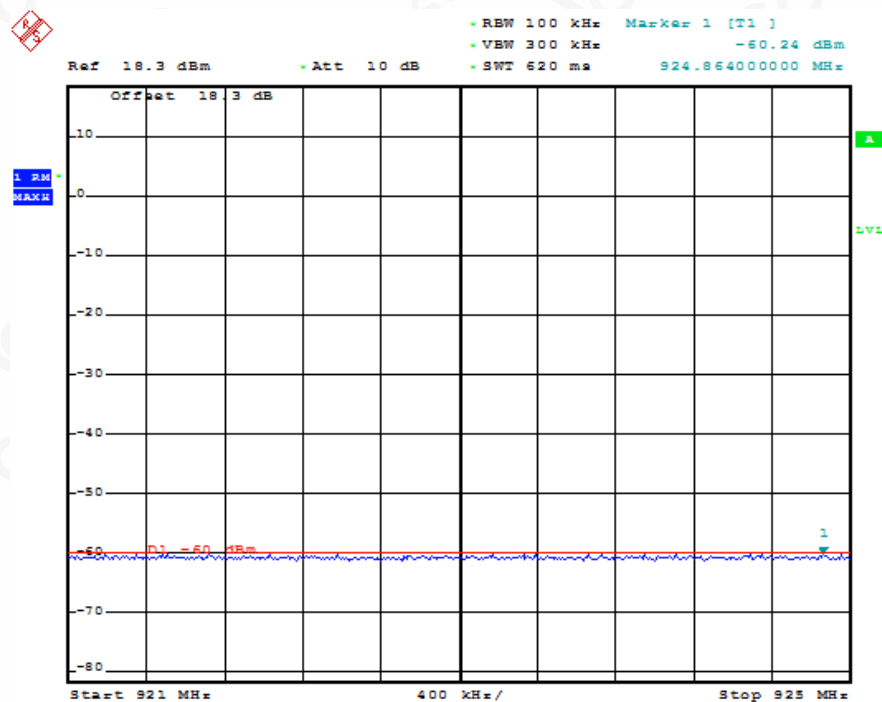
791MHZ~821MHZ



AAA

Date: 16.JAN.2020 09:46:07

921MHZ~925MHZ



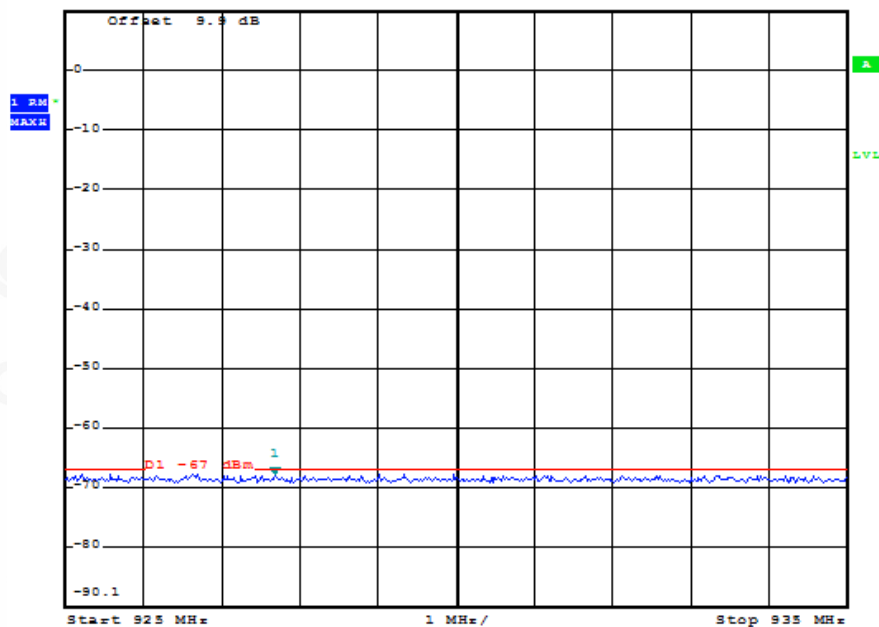
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Date: 16.JAN.2020 09:46:39





Ref 9.9 dBm Att 10 dB



Date: 16.JAN.2020 09:47:05



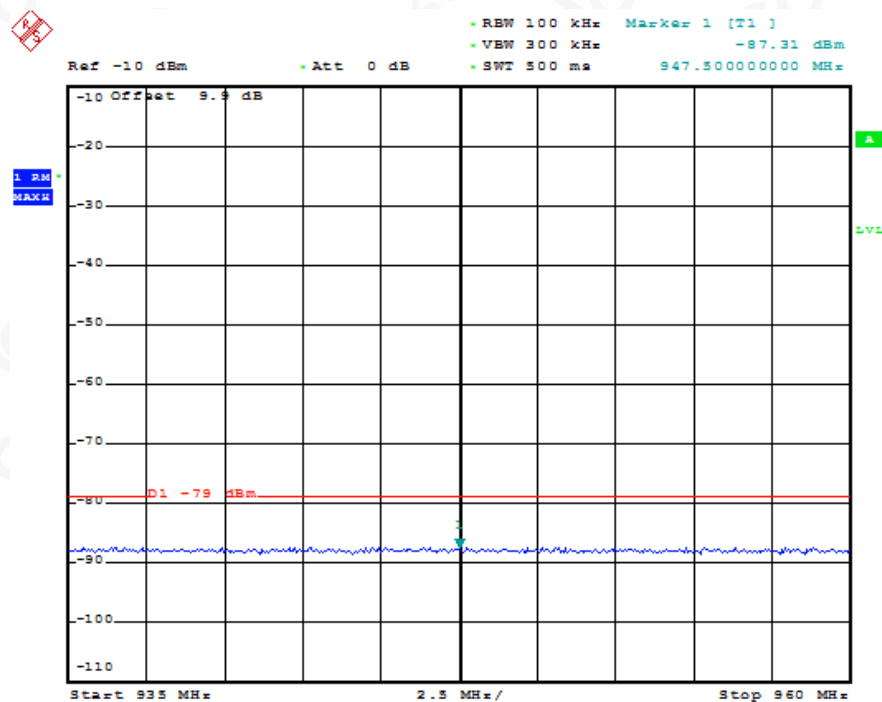
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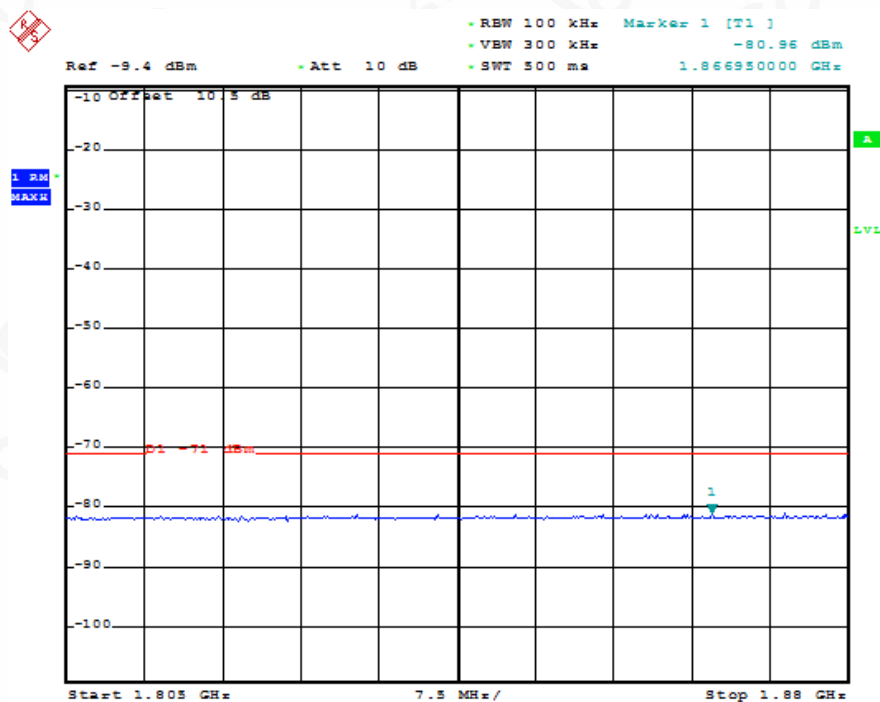
935MHZ~960MHZ



AAA

Date: 16.JAN.2020 09:47:13

1805MHZ~1880MHZ

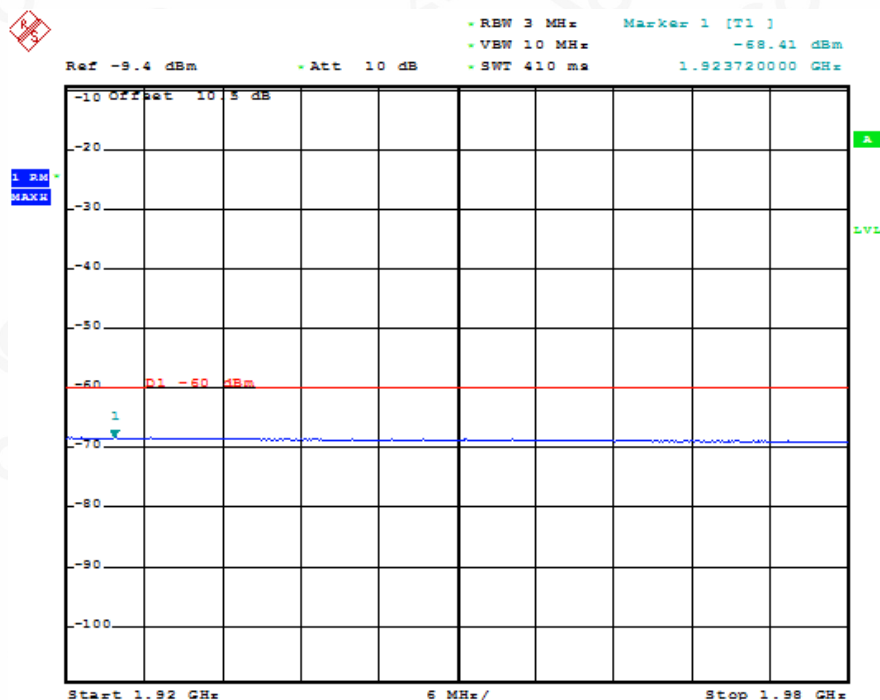


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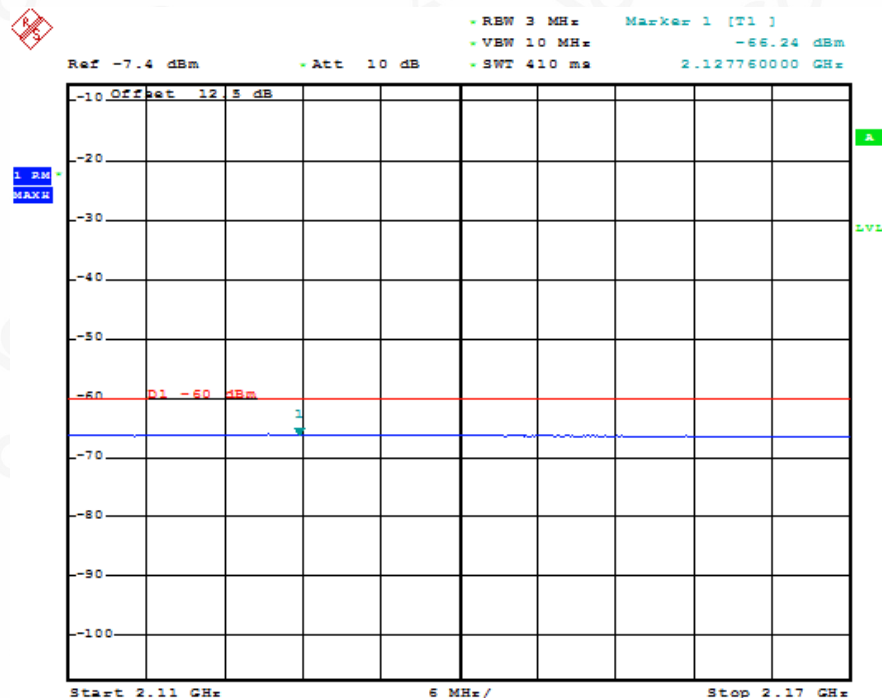
1920MHZ~1980MHZ



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Date: 16.JAN.2020 09:47:39

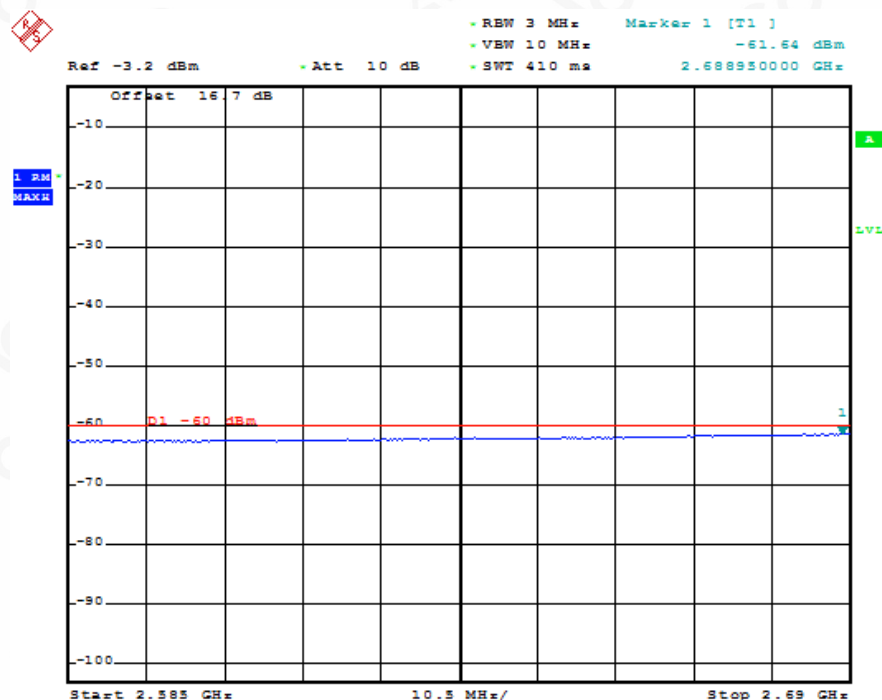
2110MHZ~2170MHZ



AAA

Date: 16.JAN.2020 09:47:59

2585MHZ~2690MHZ



AAA

Date: 16.JAN.2020 09:48:31



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## Appendix M. Receiver channel selectivity(ACS)

WCDMA Band I			
Parameter	Unit	Case 1	Case 2
Ioac mean power (modulated)	dBm	-52	-25
Fuw (offset)	MHz	+5 or -5	+5 or -5
UE transmitted mean power	dBm	20	20
BER		0	0
Result		Pass	Pass



## Appendix N. Receiver intermodulation characteristics

WCDMA Band I			
Parameter	Level		Unit
low1 (CW)	-46		dBm
low2 mean power (modulated)	-46		dBm
Fuw1 (offset)	10	-10	MHz
Fuw2 (offset)	20	-20	MHz
UE Transmitted mean power	20 dBm	20 dBm	dBm
Result	Pass	Pass	



## Appendix O. Receiver blocking characteristics

### In-band Blocking Test

WCDMA Band I			
Parameter	Unit	Level	
Blocking mean power (modulated)	dBm	-56 (For Fuw offset 10 MHz)	-44 (For Fuw offset 10 MHz)
UE Transmitted mean power	dBm	20 dBm	
Fuw	MHz	$2102.4 \leq f \leq 2177.6$	$2095 \leq f \leq 2185$
BER	%	0	0
Result		Pass	Pass

### Out-band Blocking Test

WCDMA Band I				
Parameter	Unit	Frequency range 1	Frequency range 2	Frequency range 3
Blocking (cw)	dBm	-44	-30	-15
Fuw	MHz	$2050 < f < 2095$ $2185 < f < 2230$	$2025 < f \leq 2050$ $2230 \leq f < 2255$	$1 < f \leq 2025$ $2255 \leq f < 12750$
Spurious Response Frequencies	MHz	NO	NO	NO
BER	%	0	0	0
Result		Pass	Pass	Pass

### Narrow Band Blocking Test:

WCDMA Band I		
Parameter	Unit	Level
blocking (GMSK)	dBm	-56
Fuw (offset)		2.8
UE Transmitted mean power	dBm	20 dBm
BER	%	0
Result		Pass



## Appendix P. Out-of-synchronization handling of output power

WCDMA Band I			
Parameter	Level		Unit
I or I <sub>oc</sub>	-1		dB
I <sub>oc</sub>	-60		dBm
DPDCH Ec I <sub>or</sub>	-19,6		dB
Result	Pass	Pass	



## Appendix Q. Receiver Reference Sensitivity level

Note: All test modes were carried out for all operation modes and record the worst test mode (BAND I TNVN) of fellow:

WCDMA Band I				
	Parameter	Unit	DPCH_Ec<REFSENS>	<REFlor>
		dBm/3,84 MHz	-116,3	-106
TNVN	BER	%	0	0
	Result		Pass	Pass



## Appendix R. Receiver Characteristics/Spurious Response

WCDMA Band I			
Parameter	Level		Unit
Iblocking(CW)	-46		dBm
Fuw	Spurious response frequencies		MHz
UE Transmitted mean power	20 dBm	20 dBm	dBm
BER	0	0	
Result	Pass	Pass	





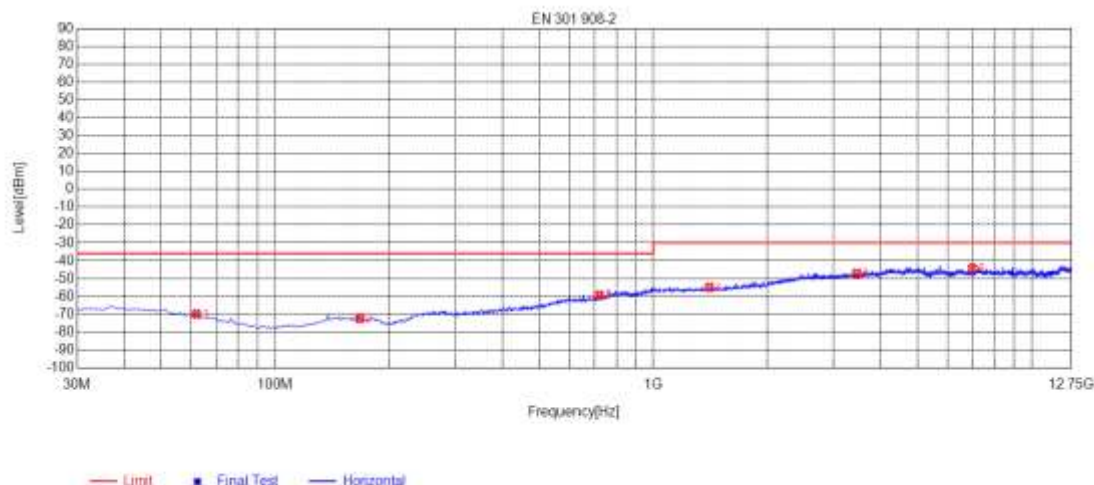
## Appendix S . Radiated spurious emissions - MS in idle mode

Frequency	RBW	Max .Level (dbm)	Test Band=Band I			Result
			Test Conditions=TNVN			
			Test Channel			
			LCH	MCH	HCH	
30 MHz ≤f < 1 GHz	100 kHz	-57	-62.02	-62.11	-62.05	Pass
1 GHz ≤f ≤ 12,75 GHz	1 MHz	-47	-62.43	-62.52	-61.38	Pass
791 MHz ≤f ≤ 821 MHz	3,84 MHz	-60	-67.28	-67.37	-67.40	Pass
921 MHz ≤f < 925 MHz	100 kHz	-60	-72.46	-72.75	-72.69	Pass
925 MHz ≤f ≤ 935 MHz	100 kHz	-67	-76.95	-77.06	-77.11	Pass
935 MHz < f ≤ 960 MHz	100 kHz	-79	-84.48	-84.55	-84.67	Pass
1805MHz ≤f ≤ 1880MHz	100 kHz	-60	-82.72	-82.82	-82.91	Pass
1920MHz ≤f ≤ 1980MHz	3,84 MHz	-60	-71.12	-71.21	-71.33	Pass
2 110 MHz ≤f ≤ 2 170 MHz	3,84 MHz	-60	-70.39	-70.43	-70.48	Pass
2 585 MHz ≤f ≤ 2 690 MHz	3,84 MHz	-60	-68.28	-68.42	-68.39	Pass



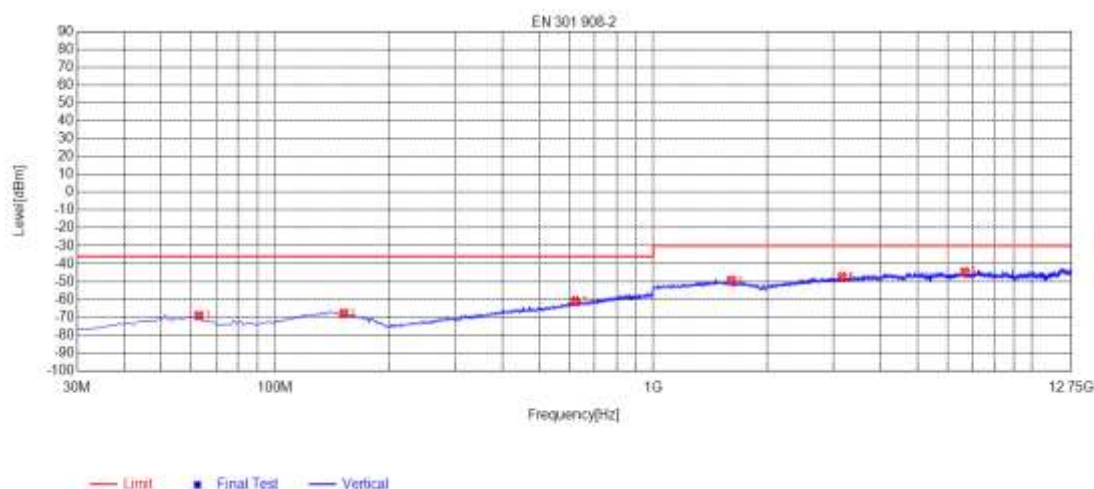
## Appendix T. Radiated spurious emissions test result

### RADIATED SPURIOUS EMISSIONS UMTS BAND I– HORIZONTAL



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	62.0100	-100.20	-69.86	-36.00	33.86	30.34	173	Horizontal
2	167.7400	-101.72	-72.32	-36.00	36.32	29.40	215	Horizontal
3	721.6100	-100.14	-59.31	-36.00	23.31	40.83	0	Horizontal
4	1408.9818	-51.50	-54.90	-30.00	24.90	-3.40	21	Horizontal
5	3451.5403	-53.17	-47.08	-30.00	17.08	6.09	291	Horizontal
6	6977.2454	-55.95	-44.30	-30.00	14.30	11.65	359	Horizontal

## RADIATED SPURIOUS EMISSIONS UMTS BAND I-VERTICAL



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	62.9800	-99.45	-69.11	-36.00	33.11	30.34	172	Vertical
2	152.2200	-101.40	-67.85	-36.00	31.85	33.55	62	Vertical
3	622.6700	-100.09	-60.98	-36.00	24.98	39.11	1	Vertical
4	1608.7718	-51.25	-49.47	-30.00	19.47	1.78	45	Vertical
5	3157.7315	-52.87	-47.39	-30.00	17.39	5.48	138	Vertical
6	6664.6329	-56.48	-44.66	-30.00	14.66	11.82	214	Vertical



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## APPENDIX U: PHOTOGRAPHS OF TEST SETUP

### RADIATED SPURIOUS EMISSION TEST SETUP



RADIATED SPURIOUS EMISSION ABOVE 1G TEST SETUP



----END OF REPORT----