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# RF Test Report

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Report No.: AGC00552191002EE07

**PRODUCT DESIGNATION** : Smart Phone  
**BRAND NAME** : CUBOT  
**MODEL NAME** : X20  
**APPLICANT** : Shenzhen Huafurui Technology Co., Ltd.  
**DATE OF ISSUE** : Oct. 23, 2019  
**STANDARD(S)** : EN 301 908-1 V11.1.1 (2016-07)  
: 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           | /           | Oct. 23, 2019 | Valid         | Initial release |



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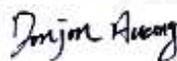
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### 1. TEST REPORT CERTIFICATION

|                                 |   |
|---------------------------------|---|
| <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>               | X20   |
| <b>Date of test</b>             | Oct. 14, 2019 to Oct. 22, 2019  |
| <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.

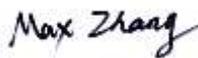
Prepared By



Donjon Huang  
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Oct. 22, 2019

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(Reviewer)

Oct. 23, 2019

Approved By



Forrest Lei  
( Authorized Officer )

Oct. 23, 2019

## 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:

|                             |  |
|-----------------------------|--|
| <b>Product Name</b>         | Smart Phone  |
| <b>Brand Name</b>           | CUBOT  |
| <b>Test Model</b>           | X20  |
| <b>Product Type</b>         | UMTS   |
| <b>Hardware Version</b>     | E965_MAIN_PCB_V1.0   |
| <b>Software Version</b>     | CUBOT_X20_9071C-1_V01_20190920   |
| <b>UMTS Frequency Bands</b> | <input checked="" type="checkbox"/> FDD Band I <input checked="" type="checkbox"/> FDD Band VIII (EU Bands)<br><input type="checkbox"/> FDD Band V <input type="checkbox"/> FDD Band II (Non-EU Bands) |
| <b>Modulation Mode</b>      | HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK   |
| <b>Antenna Type</b>         | PIFA antenna   |
| <b>Antenna Gain</b>         | Band I:0.9dBi, Band VIII:0.72dBi;  |
| <b>Power Class</b>          | FDD Band I:3, FDD Band VIII:3  |
| <b>GSM Release Version</b>  | N/A  |
| <b>SIM Card Description</b> | 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

|                                |   |
|--------------------------------|---|
| <b>Sample Reference Number</b> | A01                                     |
| <b>Factory Name</b>            | Shenzhen Huafurui Technology Co., Ltd.  |
| <b>Test Model</b>              | X20                                     |
| <b>Product Type</b>            | FDD Band I, FDD Band VIII               |
| <b>Frequency Bands</b>         | 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             | YES     | 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<br>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<br>test set 8960      | Agilent         | GB46200384   | July 11, 2019 | July 10, 2020 |
| 4   | Power Splitter 11636A                        | Agilent         | 34           | Sep.09, 2019  | Sep.08, 2020  |
| 5   | Attenuator                                   | JFW             | 50FHC-006-50 | June 12, 2019 | June 11, 2020 |
| 6   | Vector Signal Generator<br>SMU200A           | R&S             | 104332       | Sep.20, 2018  | Sep.19, 2019  |
| 7   | VECTOR ANALYZER<br>E4440A                    | Agilent         | MY44303916   | June 12, 2019 | June 11, 2020 |
| 8   | MXG Vector Signal<br>Generator N5182A        | AGILENT         | MY50140530   | Sep. 09, 2019 | Sep. 08, 2020 |
| 9   | PSG Analog Signal<br>Generator E8257D        | AGILENT         | MY45141029   | Sep. 09, 2019 | Sep. 08, 2020 |
| 10  | MXA Signal Analyzer<br>N9020A                | AGILENT         | W1312-60196  | Dec. 20, 2018 | Dec. 19, 2019 |
| 11  | Universal Switch Control<br>Unit             | JS TONSCEND     | N/A          | ---           | ---           |
| 12  | Programmable Power<br>Supply PPT-1830        | GW INSTRON      | EM907629     | Sep. 09, 2019 | Sep. 08, 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<br>Horn Antenna 3117 | ETS<br>LINDGREN | 00034609     | Mar. 01, 2018 | Feb. 28, 2020 |
| 17  | Trilog Broadband Antenna<br>VULB 9168        | SCHWARZBEC<br>K | 494          | Mar. 01, 2018 | Feb. 28, 2020 |
| 18  | LOOP ANTENNA<br>SAS-562B                     | A.H             | /            | Mar. 01, 2018 | Feb. 28, 2020 |



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



#### 4. MEASUREMENT UNCERTAINTY

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

|   |   |
|---|---|
| <b>Normal Temperature (NT)</b>                | 15 ... 35 °C  |
| <b>Relative Humidity</b>                      | 30 ... 75 %   |
| <b>Air Pressure</b>                           | 980 ... 1020 kPa  |
| <b>Adapter Test Model Name</b>                | HJ-0502000W2-EU   |
| <b>Details of Power Supply (Rated Input)</b>  | AC100-240V, 50/60Hz,0.3A  |
| <b>Details of Power Supply (Rated Output)</b> | DC5.0V,2000mA   |
| <b>Extreme Temperature</b>                    | Low Temperature (TL) = -10°C<br>High Temperature (TH) = +40°C                 |
| <b>Extreme Voltage of the EUT</b>             | Low Voltage = DC 3.45V<br>Normal Voltage= DC 3.85V<br>High Voltage = DC 4.40V |

**Note:** The Limit Voltage 4.40V was declared by manufacturer,  
The EUT couldn't be operate normally with higher voltage.

The maximum temperature of 40°C 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   |        | FDDVIII |        |
|-----------|---------------------------------------|-----------|--------|--------|---------|--------|
|           |                                       |           | 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   |



ETSI EN 301 908-2

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



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



|        |   |     |     |      |     |      |
|--------|---|-----|-----|------|-----|------|
| 4.2.10 | Receiver Characteristics/Spurious Emissions | NTC | A01 | PASS | A01 | PASS |
| 4.2.13 | Receiver Reference Sensitivity level        | NTC | A01 | PASS | 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 the modes had been tested, but only the worst data recorded in the report.

| Operating Band | Test Conditions | Test Channel | Measurement Data(dBm) | Limit(dBm)    | Result |
|----------------|-----------------|--------------|-----------------------|---------------|--------|
| Band I         | TNVN            | LCH          | 23.49                 | 24(+1.7/-3.7) | Pass   |
|                |                 | MCH          | 23.50                 | 24(+1.7/-3.7) | Pass   |
|                |                 | HCH          | 23.61                 | 24(+1.7/-3.7) | Pass   |
| Band VIII      | TNVN            | LCH          | 23.52                 | 24(+1.7/-3.7) | Pass   |
|                |                 | MCH          | 23.56                 | 24(+1.7/-3.7) | Pass   |
|                |                 | HCH          | 23.79                 | 24(+1.7/-3.7) | Pass   |



**Appendix B. Transmitter minimum output power**

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

| Operating Band | Test Conditions | Test Channel | Measurement Data(dBm) | Limit(dBm) | Result |
|----------------|-----------------|--------------|-----------------------|------------|--------|
| Band I         | TNVN            | LCH          | -55.64                | -49        | Pass   |
|                |                 | MCH          | -56.00                | -49        | Pass   |
|                |                 | HCH          | -55.96                | -49        | Pass   |
| Band VIII      | TNVN            | LCH          | -55.78                | -49        | Pass   |
|                |                 | MCH          | -56.10                | -49        | Pass   |
|                |                 | HCH          | -56.07                | -49        | Pass   |



**Appendix C. Transmitter spectrum emission mask**

**BAND I**

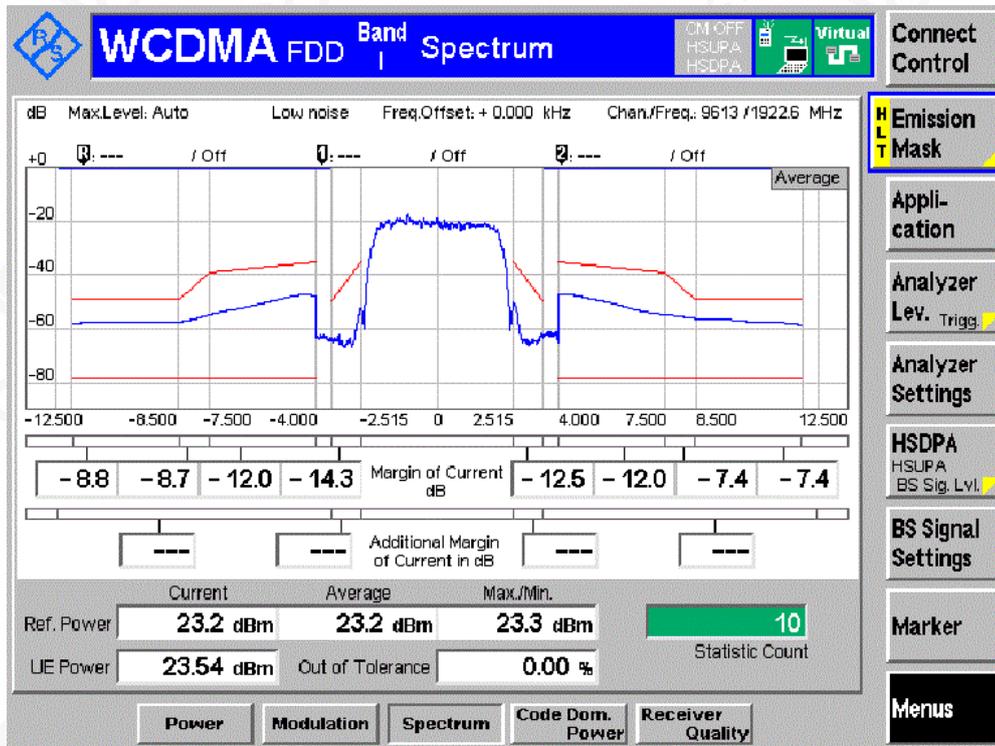
| Operating Band | Test Conditions | Δf in MHz    | Test Channel |      |      |
|----------------|-----------------|--------------|--------------|------|------|
|                |                 |              | LCH          | MCH  | HCH  |
| Band I         | TNVN            | 2.5-3.5      | PASS         | PASS | PASS |
|                |                 | 3.5-7.5      |              |      |      |
|                |                 | 7.5-8.5      |              |      |      |
|                |                 | 8.5-12.5 MHz |              |      |      |

**BAND VIII**

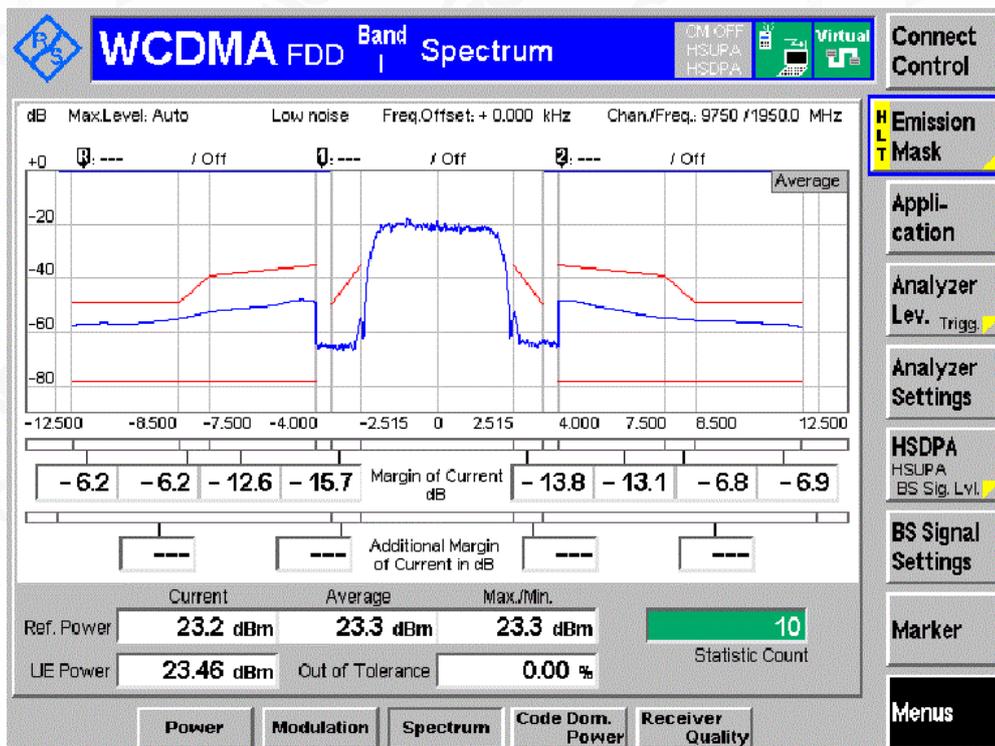
| Operating Band | Test Conditions | Δf in MHz    | Test Channel |      |      |
|----------------|-----------------|--------------|--------------|------|------|
|                |                 |              | LCH          | MCH  | HCH  |
| Band VIII      | TNVN            | 2.5-3.5      | PASS         | PASS | PASS |
|                |                 | 3.5-7.5      |              |      |      |
|                |                 | 7.5-8.5      |              |      |      |
|                |                 | 8.5-12.5 MHz |              |      |      |



**BAND I**  
**Channel LCH**



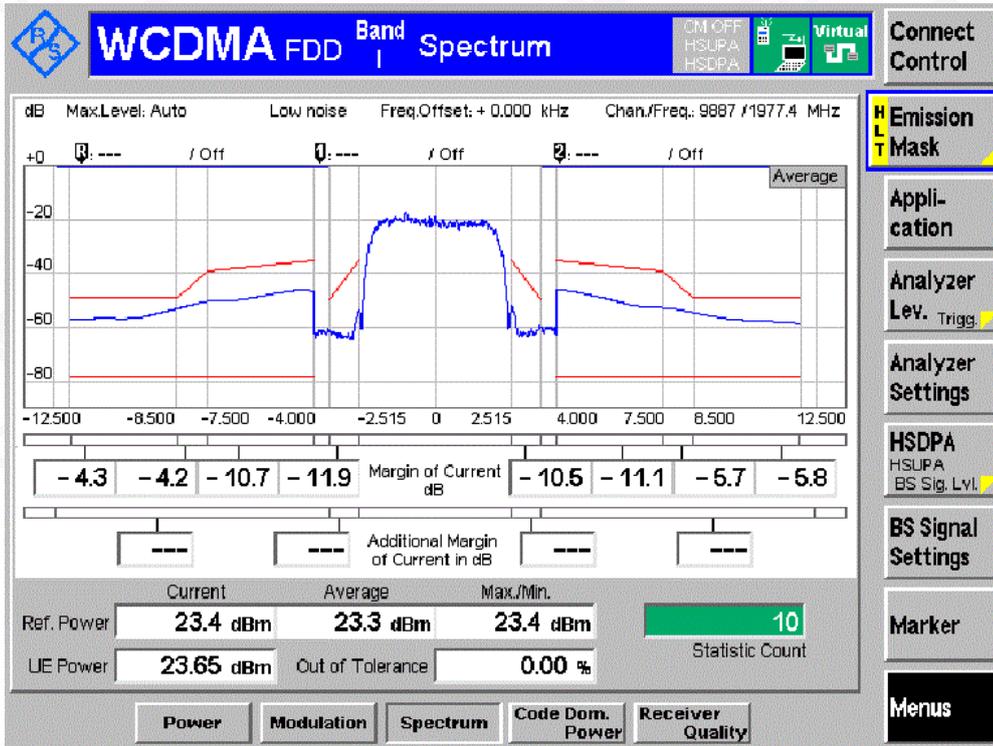
**Channel MCH**



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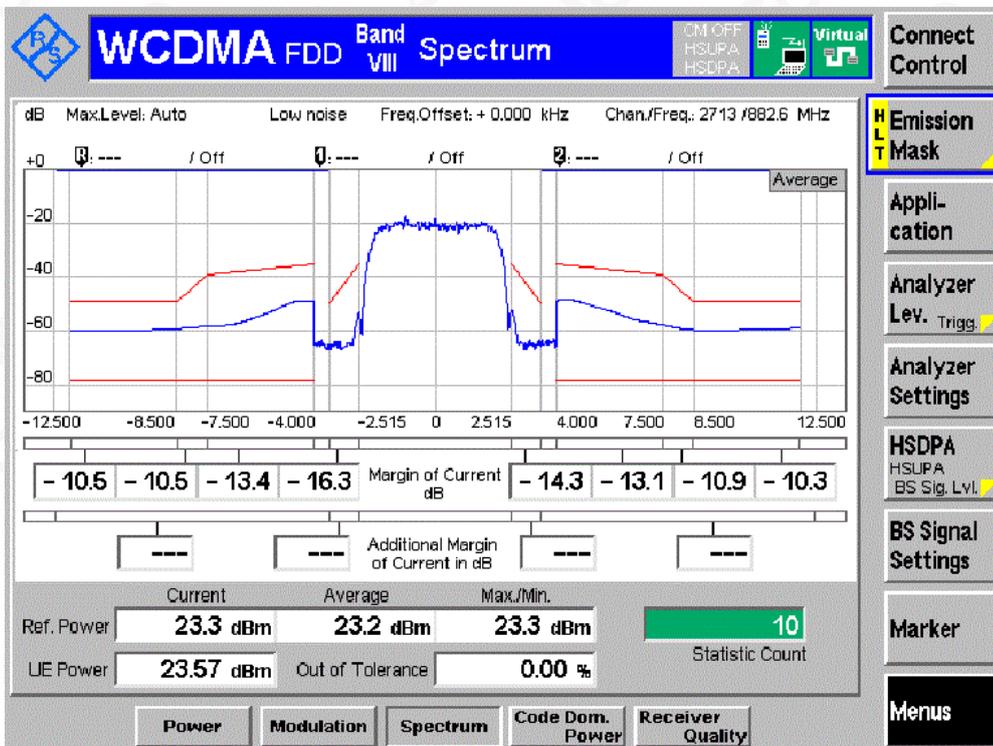
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### Channel HCH



### BAND VIII

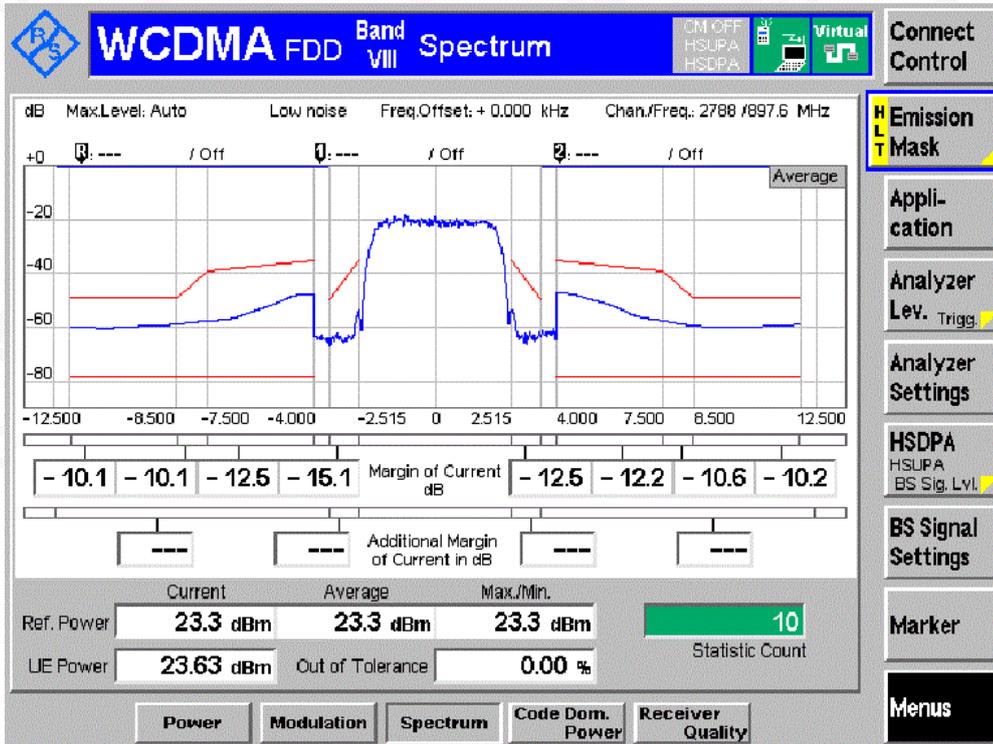
### Channel LCH



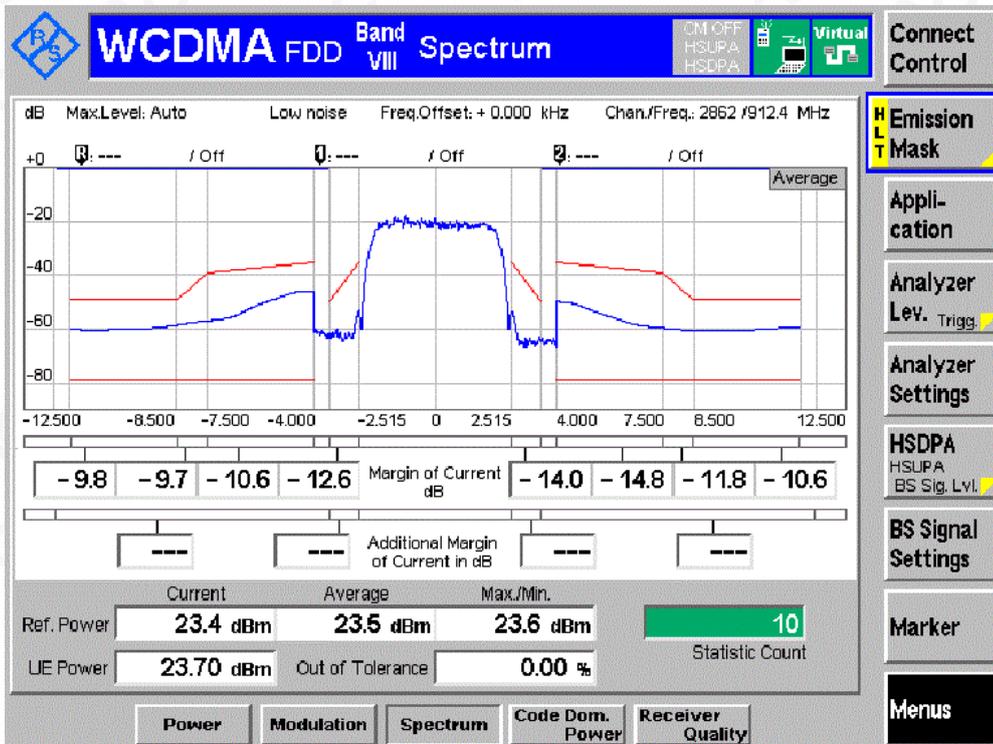
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### Channel MCH



### Channel HCH



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**Appendix D. Transmitter adjacent channel leakage power ratio**

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

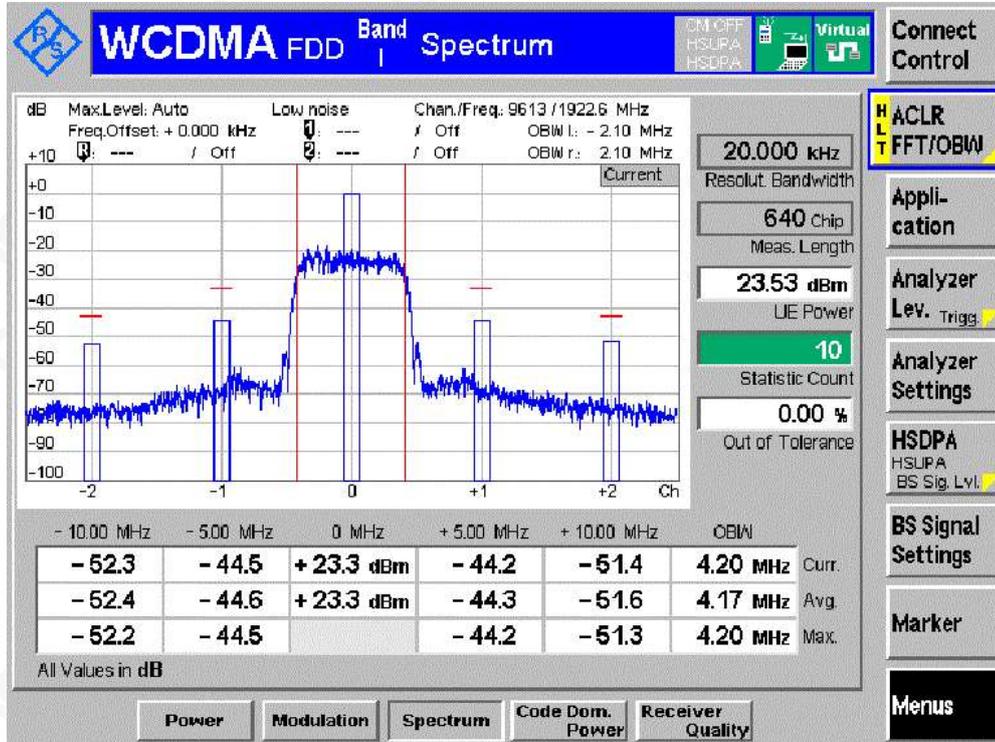
| Operating Band | Test Conditions | Test Channel | UE Channel | Measurement Data(dBm) | Limit(dBm) | Result |
|----------------|-----------------|--------------|------------|-----------------------|------------|--------|
| Band I         | TNVN            | LCH          | +5MHz      | -44.34                | -32.2      | Pass   |
|                |                 |              | -5 MHz     | -44.56                | -32.2      | Pass   |
|                |                 |              | -10 MHz    | -52.40                | -42.2      | Pass   |
|                |                 |              | +10 MHz    | -51.60                | -42.2      | Pass   |
|                |                 | MCH          | +5MHz      | -44.82                | -32.2      | Pass   |
|                |                 |              | -5 MHz     | -44.45                | -32.2      | Pass   |
|                |                 |              | -10 MHz    | -50.76                | -42.2      | Pass   |
|                |                 |              | +10 MHz    | -50.90                | -42.2      | Pass   |
|                |                 | HCH          | +5MHz      | -42.66                | -32.2      | Pass   |
|                |                 |              | -5 MHz     | -42.51                | -32.2      | Pass   |
|                |                 |              | -10 MHz    | -50.02                | -42.2      | Pass   |
|                |                 |              | +10 MHz    | -51.26                | -42.2      | Pass   |
| Band VIII      | TNVN            | LCH          | +5MHz      | -45.40                | -32.2      | Pass   |
|                |                 |              | -5 MHz     | -45.80                | -32.2      | Pass   |
|                |                 |              | -10 MHz    | -54.47                | -42.2      | Pass   |
|                |                 |              | +10 MHz    | -54.26                | -42.2      | Pass   |
|                |                 | MCH          | +5MHz      | -44.06                | -32.2      | Pass   |
|                |                 |              | -5 MHz     | -44.89                | -32.2      | Pass   |
|                |                 |              | -10 MHz    | -54.34                | -42.2      | Pass   |
|                |                 |              | +10 MHz    | -54.40                | -42.2      | Pass   |
|                |                 | HCH          | +5MHz      | -47.01                | -32.2      | Pass   |
|                |                 |              | -5 MHz     | -42.64                | -32.2      | Pass   |
|                |                 |              | -10 MHz    | -54.33                | -42.2      | Pass   |
|                |                 |              | +10 MHz    | -54.84                | -42.2      | Pass   |



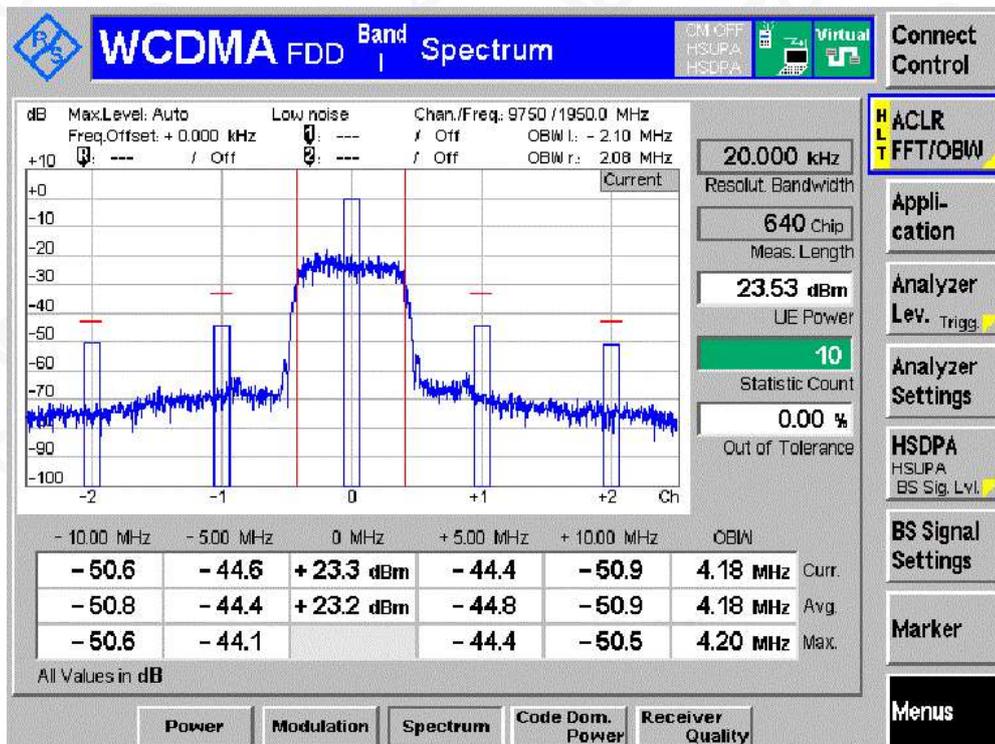
**BAND I**

**TNPN**

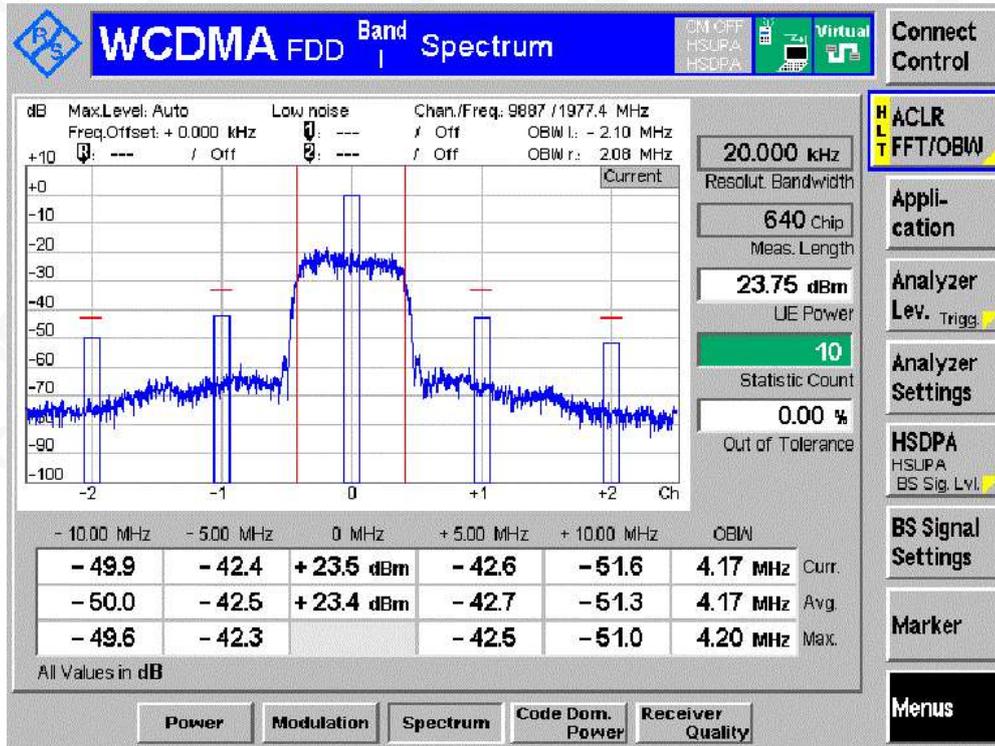
**Channel LCH**



**Channel MCH**



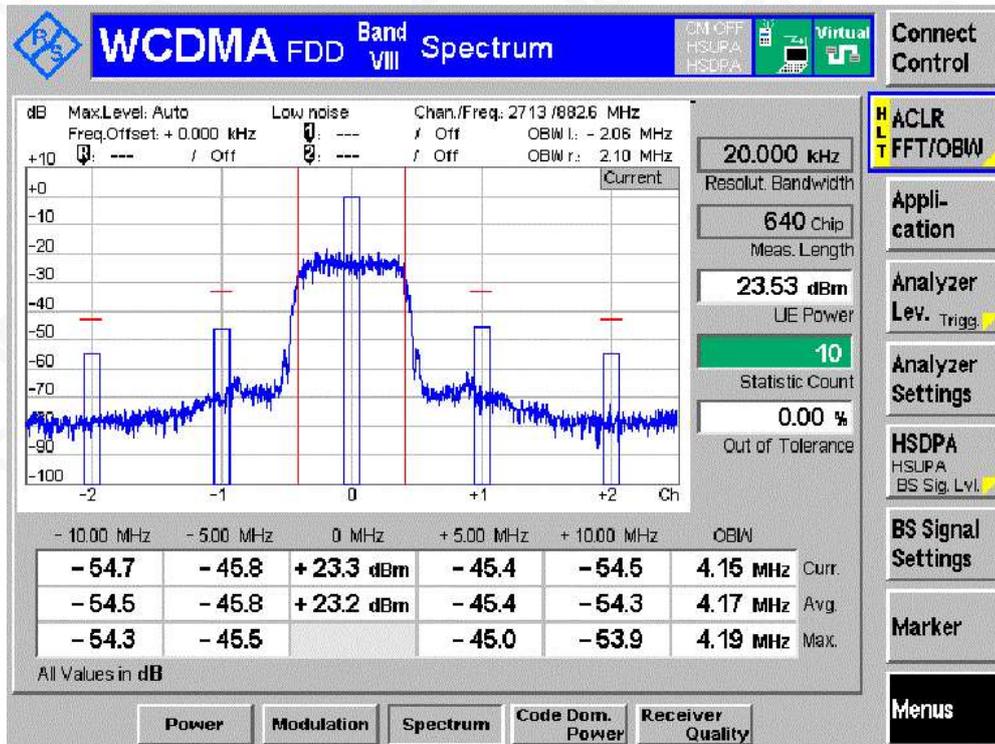
Channel HCH



BAND VIII

TNVN

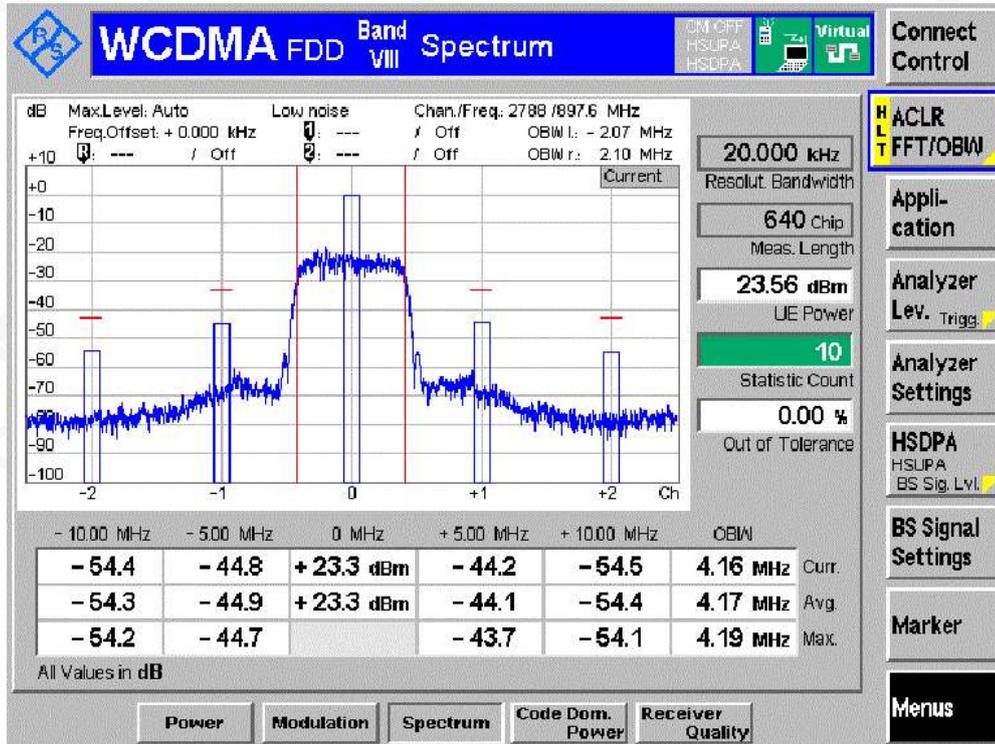
Channel LCH



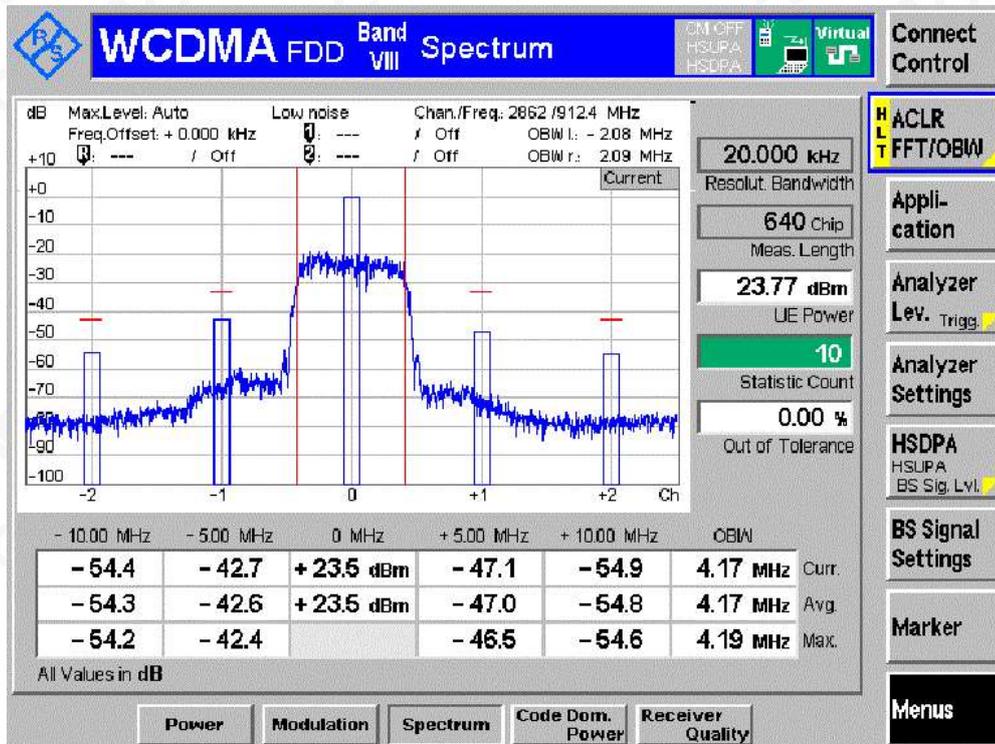
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Channel MCH



Channel HCH



**Appendix E. Transmitter spurious emissions**

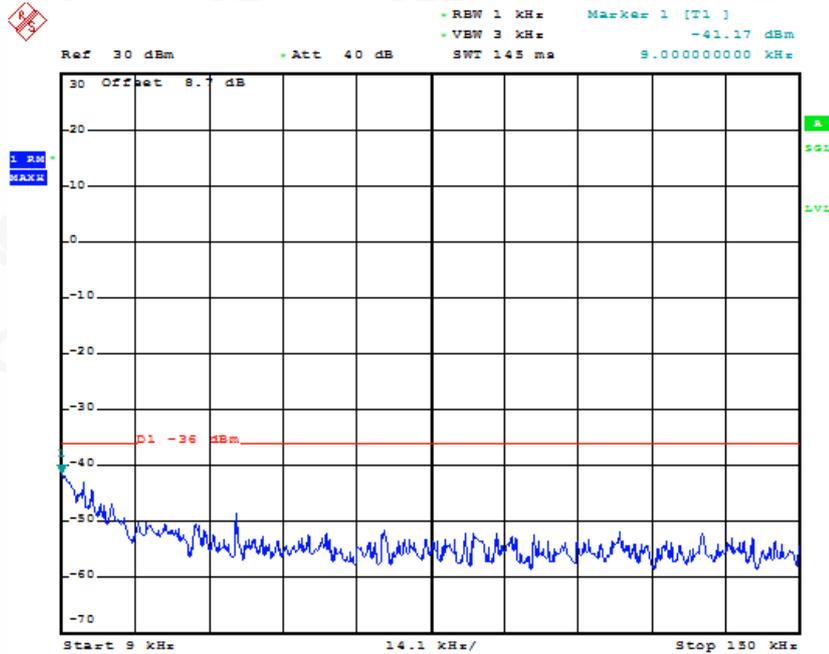
| Frequency                 | RBW     | Max. Level | Test Band=Band I     |        |        | Result |
|---------------------------|---------|------------|----------------------|--------|--------|--------|
|                           |         |            | Test Conditions=TNVN |        |        |        |
|                           |         |            | Test Channel         |        |        |        |
|                           |         |            | LCH                  | MCH    | HCH    |        |
| 9 kHz ≤ f < 150 kHz       | 1 kHz   | -36        | -41.17               | -39.81 | -39.37 | Pass   |
| 150 kHz ≤ f < 30 MHz      | 10 kHz  | -36        | -49.65               | -48.86 | -49.20 | Pass   |
| 30 MHz ≤ f < 1 000 MHz    | 100 kHz | -36        | -48.54               | -48.23 | -48.74 | Pass   |
| 1 GHz ≤ f < 12.750GHz     | 1 MHz   | -30        | -42.04               | -42.02 | -42.07 | Pass   |
| 791 MHz ≤ f ≤ 821 MHz     | 3.84MHz | -60        | -71.24               | -71.21 | -71.25 | Pass   |
| 921 MHz ≤ f < 925 MHz     | 100kHz  | -60        | -67.73               | -67.66 | -67.69 | Pass   |
| 925 MHz ≤ f ≤ 935 MHz     | 100kHz  | -67        | -70.30               | -70.35 | -70.42 | Pass   |
| 935 MHz < f ≤ 960 MHz     | 100kHz  | -79        | -80.63               | -80.74 | -80.50 | Pass   |
| 1 805 MHz ≤ f ≤ 1 880 MHz | 100kHz  | -71        | -80.29               | -80.25 | -79.96 | Pass   |
| 2 110 MHz ≤ f ≤ 2 170 MHz | 3.84MHz | -60        | -71.63               | -71.65 | -71.62 | Pass   |
| 2 585 MHz ≤ f ≤ 2 690 MHz | 3.84MHz | -60        | -69.88               | -69.84 | -69.89 | Pass   |

| Frequency              | RBW     | Max. Level (dbm) | Test Band=Band VIII  |        |        | Result |
|------------------------|---------|------------------|----------------------|--------|--------|--------|
|                        |         |                  | Test Conditions=TNVN |        |        |        |
|                        |         |                  | Test Channel         |        |        |        |
|                        |         |                  | LCH                  | MCH    | HCH    |        |
| 9 kHz ≤ f < 150 kHz    | 1 kHz   | -36              | -40.80               | -41.71 | -40.08 | Pass   |
| 150 kHz ≤ f < 30 MHz   | 10 kHz  | -36              | -48.24               | -49.51 | -48.45 | Pass   |
| 30 MHz ≤ f < 1 000 MHz | 100kHz  | -36              | -44.44               | -43.30 | -43.59 | Pass   |
| 1 GHz ≤ f < 12.75 GHz  | 1 MHz   | -30              | -41.69               | -41.71 | -41.61 | Pass   |
| 791 MHz ≤ f ≤ 821 MHz  | 3.84MHz | -60              | -71.11               | -71.03 | -71.08 | Pass   |
| 925MHz ≤ f ≤ 935 MHz   | 100 kHz | -67              | -69.60               | -68.99 | -69.64 | Pass   |
|                        | 3.84MHz | -60              | -71.90               | -71.86 | -71.89 | Pass   |

|                           |         |     |        |        |        |      |
|---------------------------|---------|-----|--------|--------|--------|------|
| 935MHz ≤ f ≤ 960 MHz      | 100KHz  | -79 | -80.53 | -80.54 | -80.69 | Pass |
|                           | 3.84MHz | -60 | -72.59 | -72.62 | -72.60 | Pass |
| 1805MHz ≤ f ≤ 1830 MHz    | 100KHz  | -71 | -80.20 | -80.22 | -80.11 | Pass |
|                           | 3.84MHz | -60 | -72.44 | -72.43 | -72.47 | Pass |
| 1830MHz ≤ f ≤ 1880 MHz    | 100KHz  | -71 | -79.96 | -79.98 | -80.14 | Pass |
|                           | 3.84MHz | -60 | -72.03 | -72.01 | -71.99 | Pass |
| 2110MHz ≤ f ≤ 2170MHz     | 3.84MHz | -60 | -71.43 | -71.44 | -71.30 | Pass |
| 2 585 MHz ≤ f ≤ 2 640 MHz | 3.84MHz | -60 | -69.74 | -69.72 | -69.28 | Pass |
| 2 640 MHz ≤ f ≤ 2 690 MHz | 3.84MHz | -60 | -69.66 | -69.65 | -69.62 | Pass |

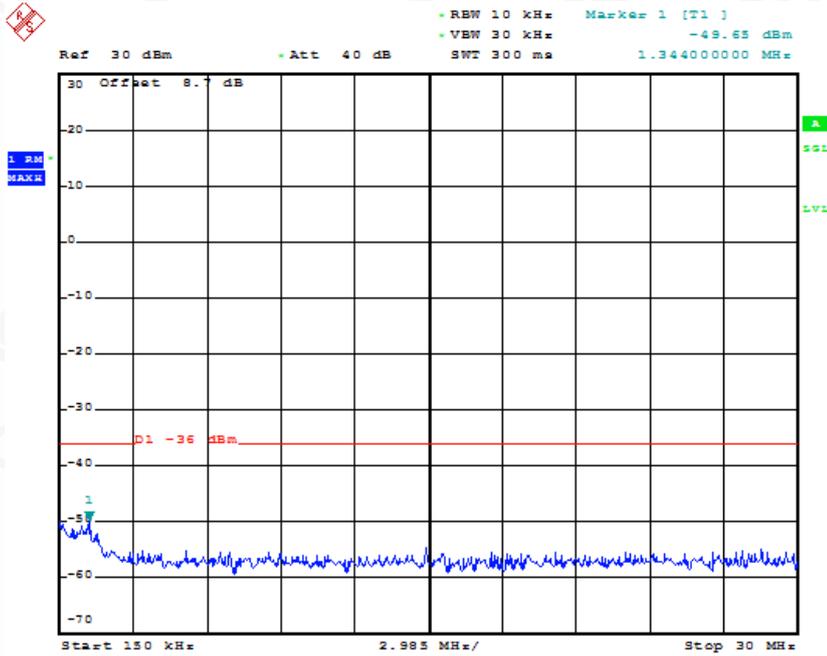


**BAND I**  
**Channel LCH**  
**9KHZ~150KHZ**



AAA  
Date: 16.OCT.2019 15:45:20

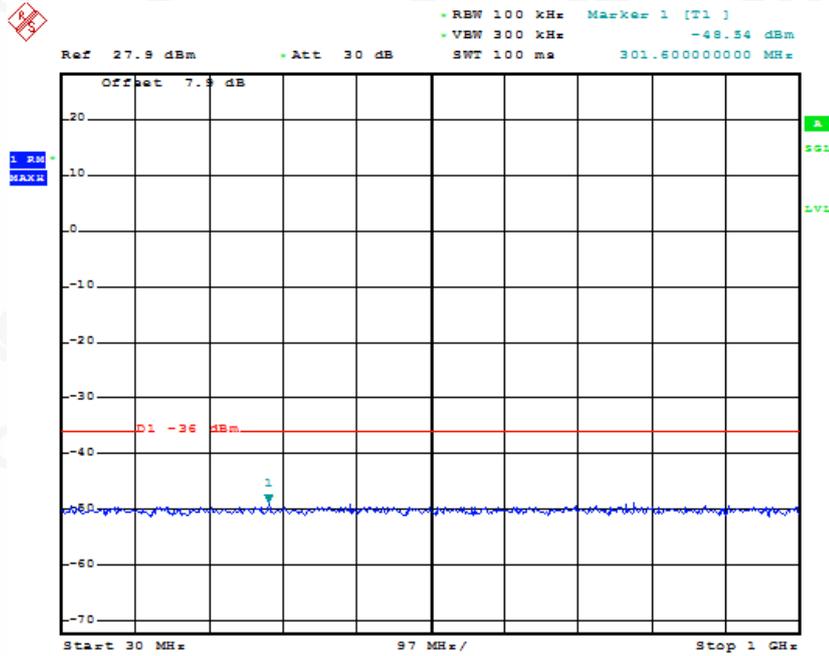
150KHZ~30MHZ



AAA

Date: 16.OCT.2019 15:45:33

30MHZ~1GHZ



AAA

Date: 16.OCT.2019 15:45:45



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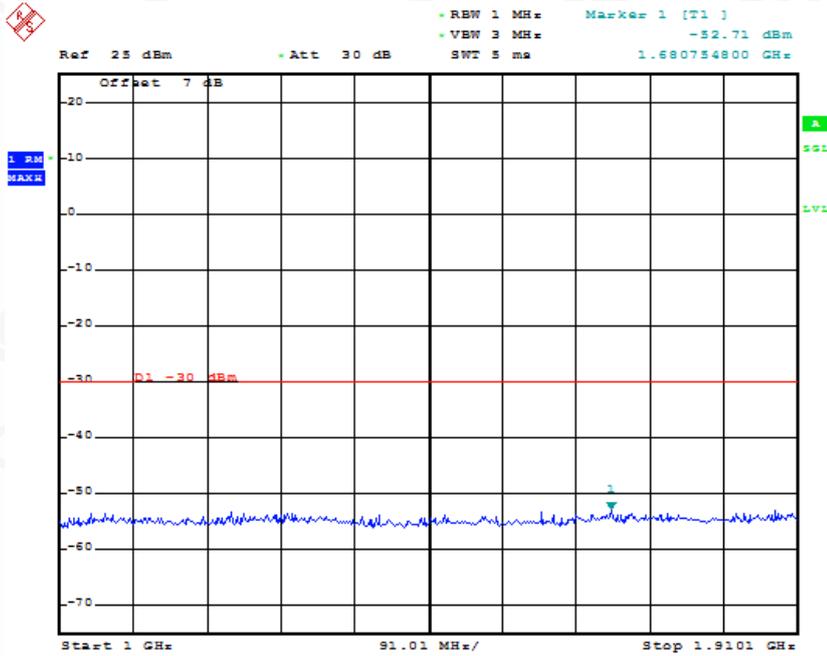
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1GHZ~1.9101GHZ

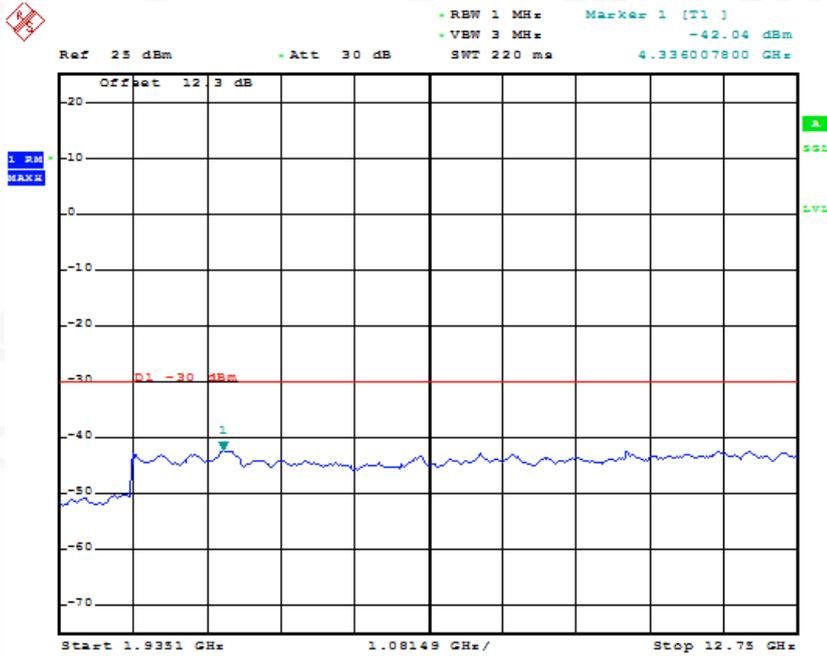


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Date: 16.OCT.2019 15:45:57



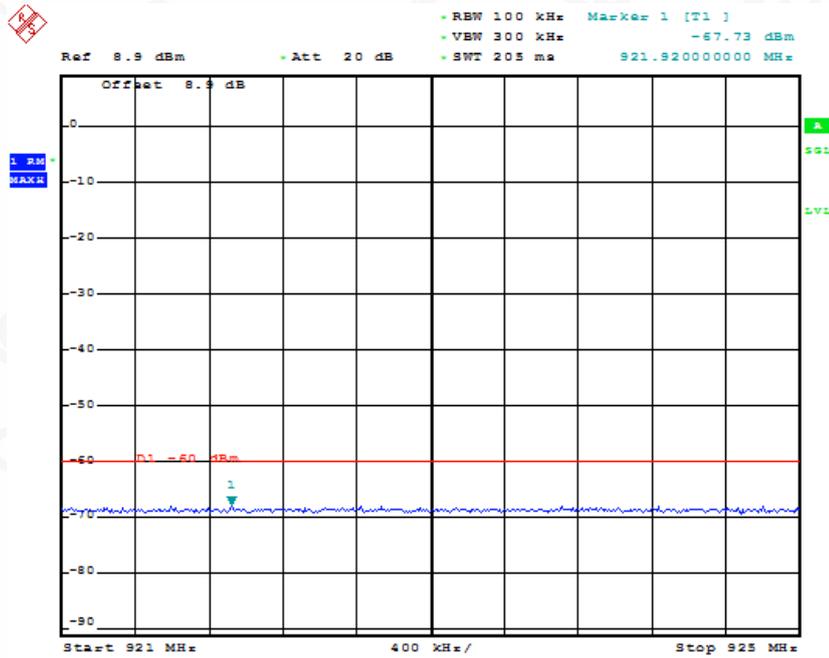
1.9351GHZ~12.75GHZ



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Date: 16.OCT.2019 15:46:10

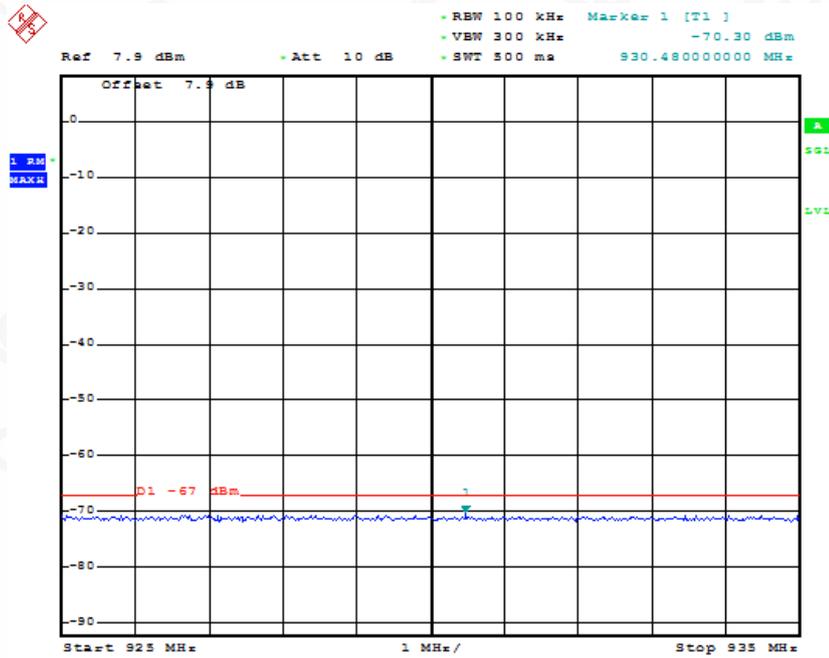
921MHZ~925MHZ



AAA

Date: 16.OCT.2019 15:47:40

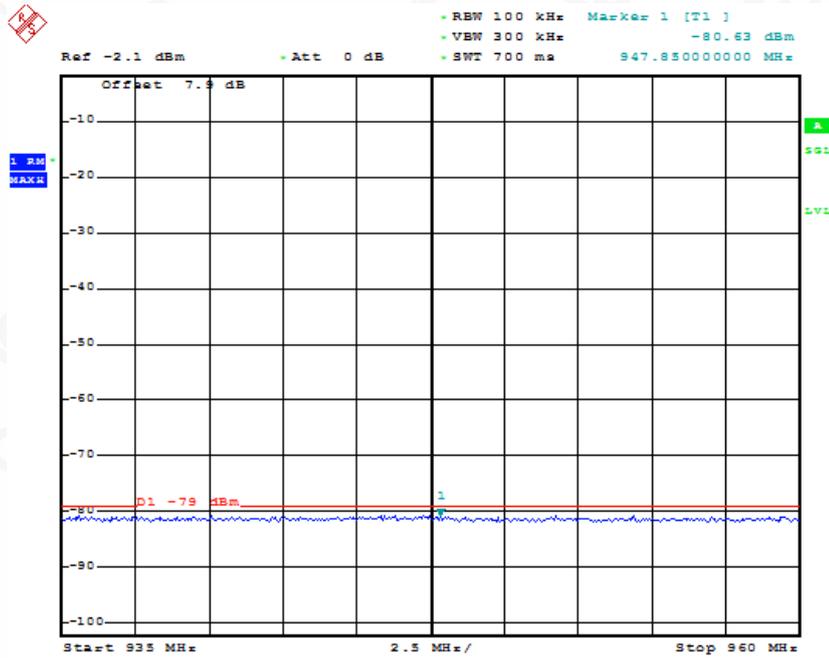
925MHZ~935MHZ



AAA

Date: 16.OCT.2019 15:48:14

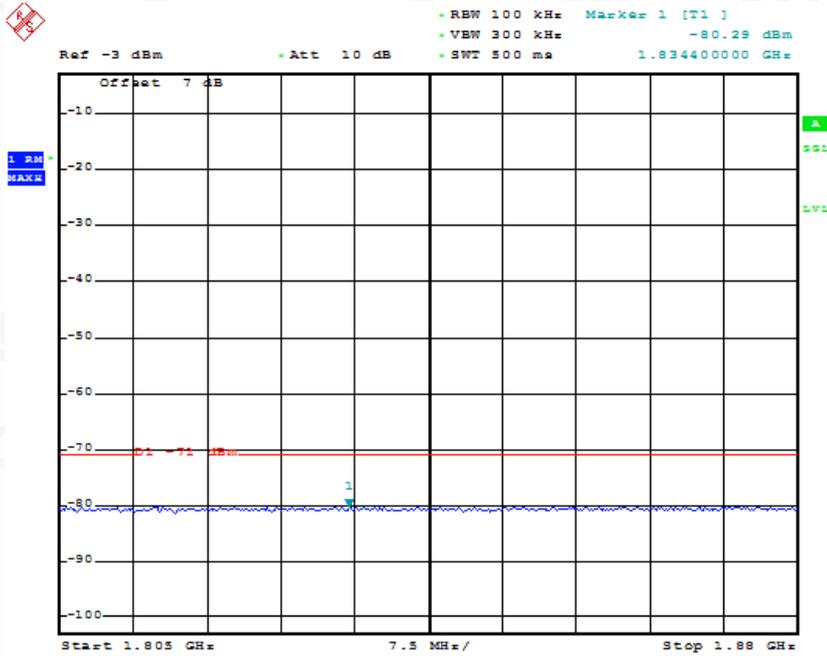
935MHZ~960MHZ



AAA

Date: 16.OCT.2019 15:48:37

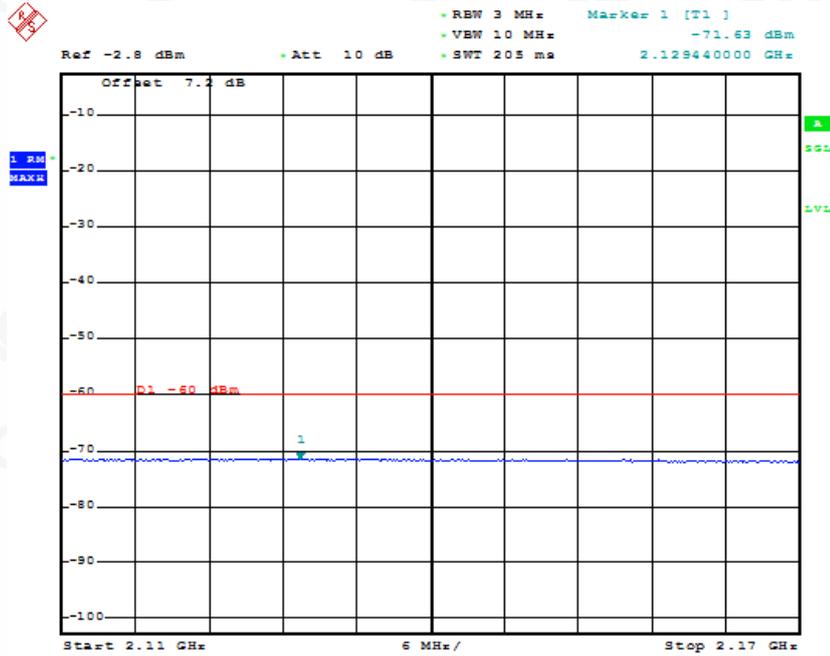
1805MHZ~1880MHZ



AAA

Date: 16.OCT.2019 15:48:49

2110MHZ~2170MHZ

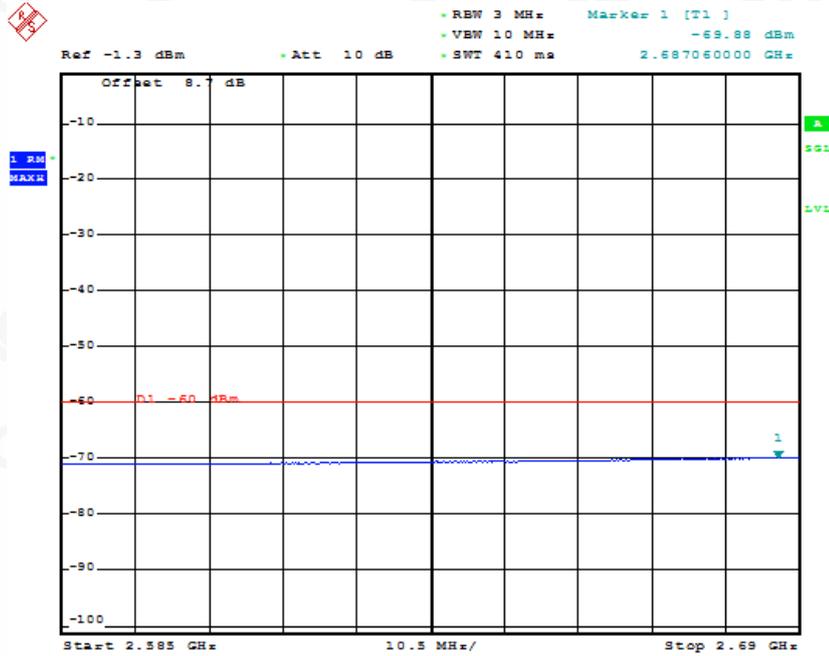


AAA

Date: 16.OCT.2019 15:49:34



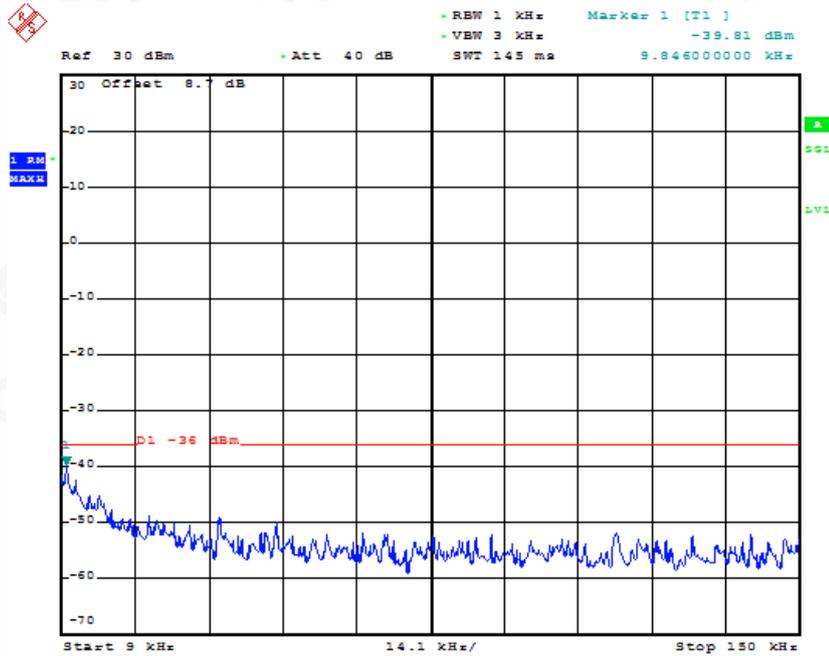
2585MHZ~2690MHZ



AAA

Date: 16.OCT.2019 15:50:08

**Channel MCH**  
9KHZ~150KHZ



AAA

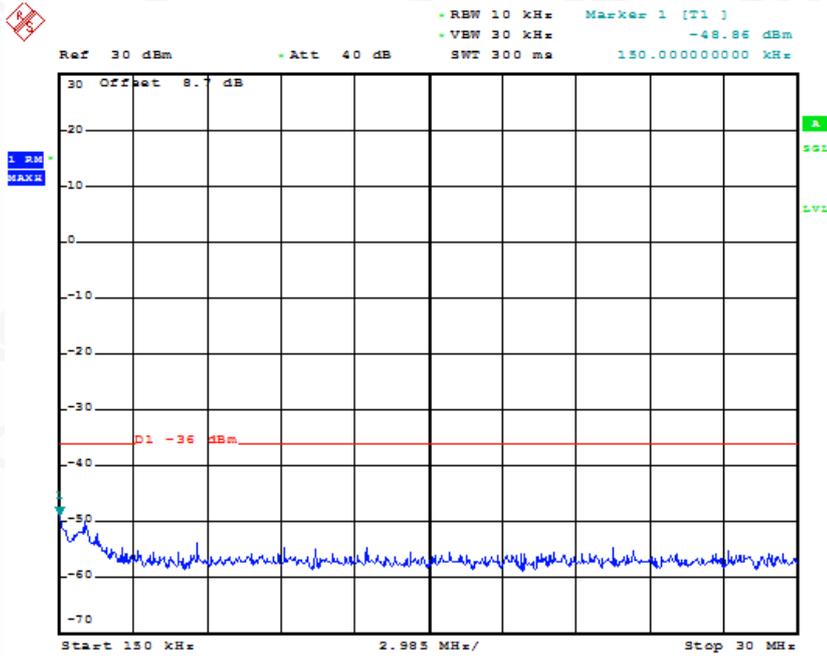
Date: 16.OCT.2019 15:50:29



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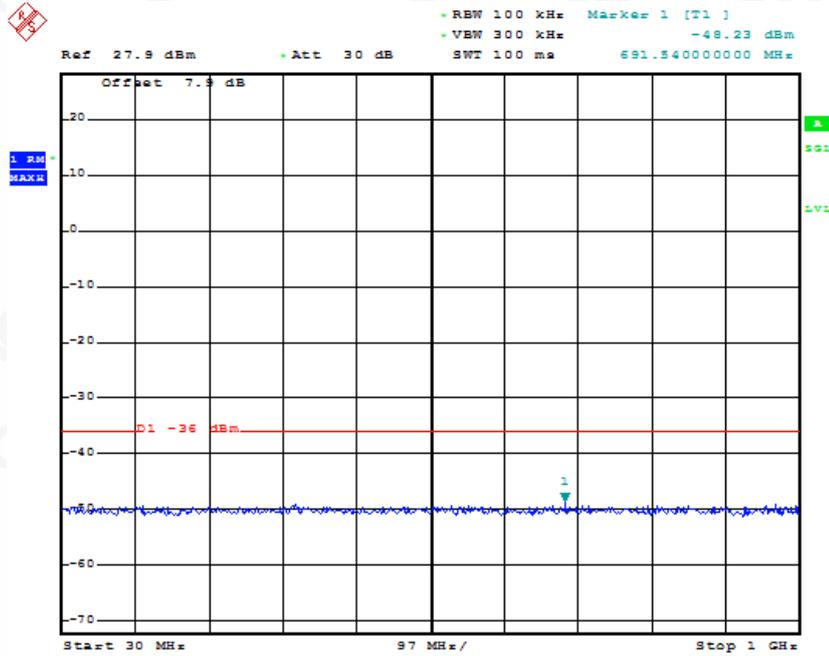
150KHZ~30MHZ



AAA

Date: 16.OCT.2019 15:50:42

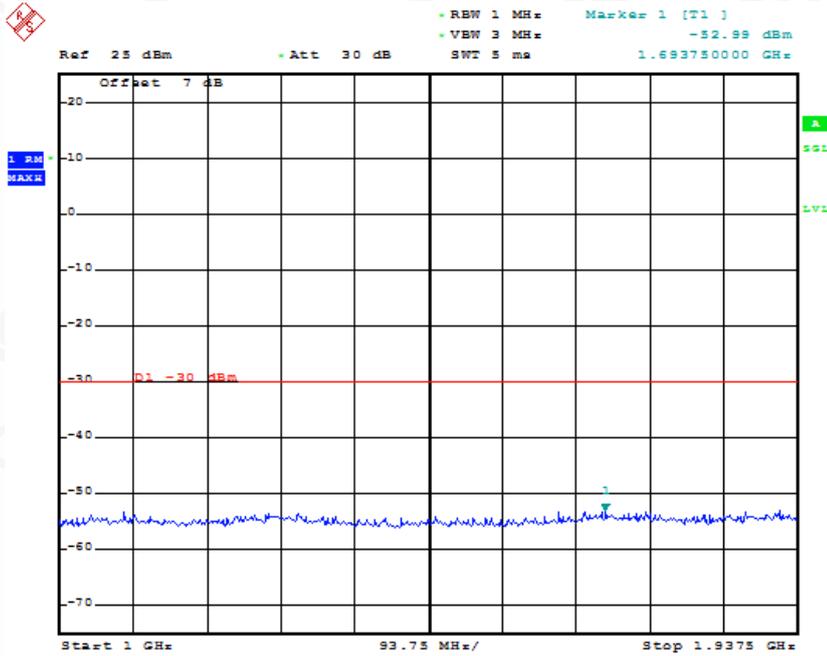
30MHZ~1GHZ



AAA

Date: 16.OCT.2019 15:50:54

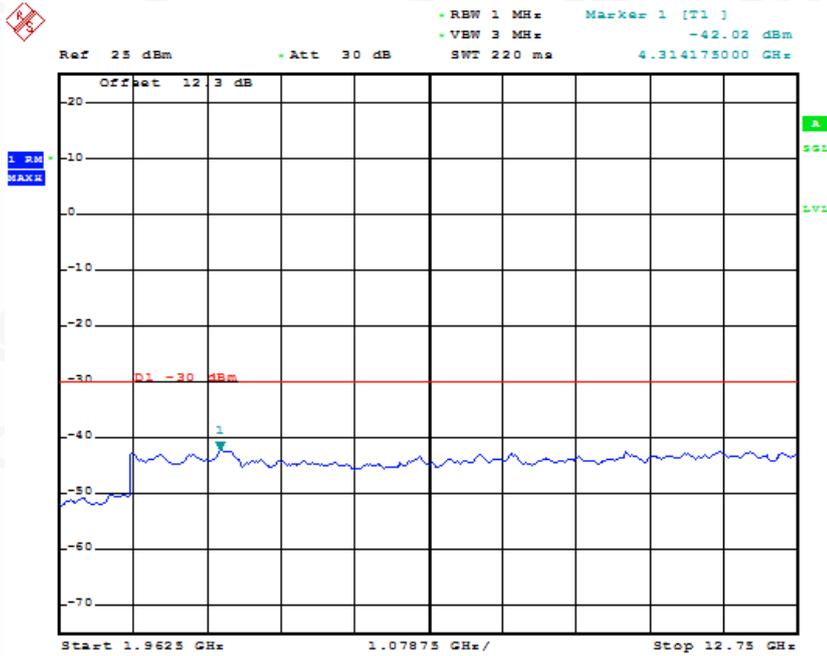
1GHZ~1.9101GHZ



AAA

Date: 16.OCT.2019 15:51:06

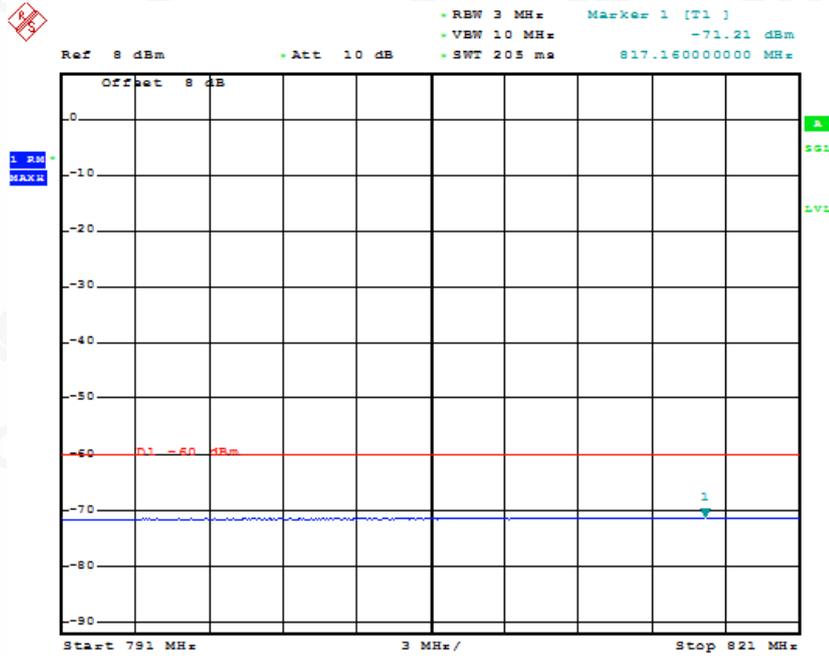
1.9625GHZ~12.75GHZ



AAA

Date: 16.OCT.2019 15:51:18

791MHZ~821MHZ



AAA

Date: 16.OCT.2019 15:52:03



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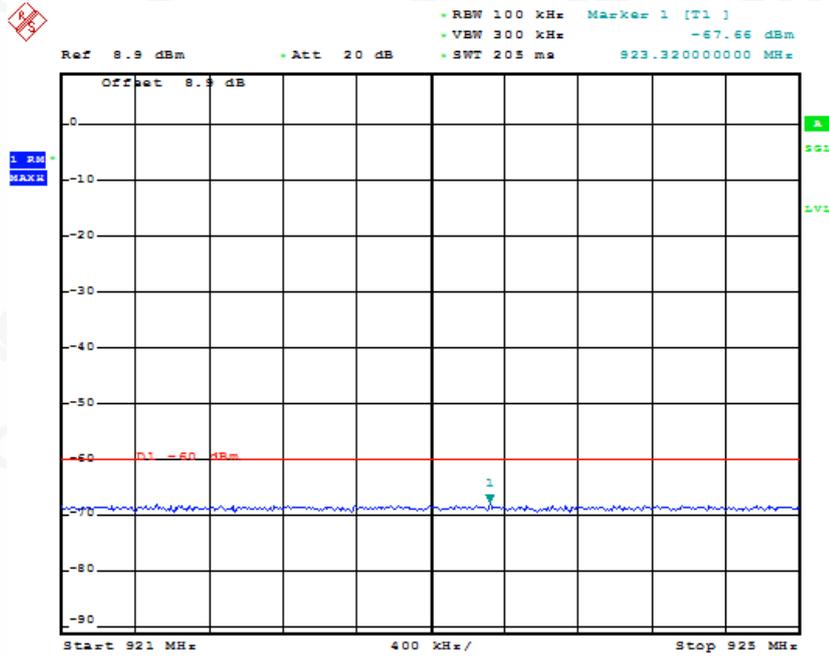
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921MHZ~925MHZ



AAA

Date: 16.OCT.2019 15:52:54



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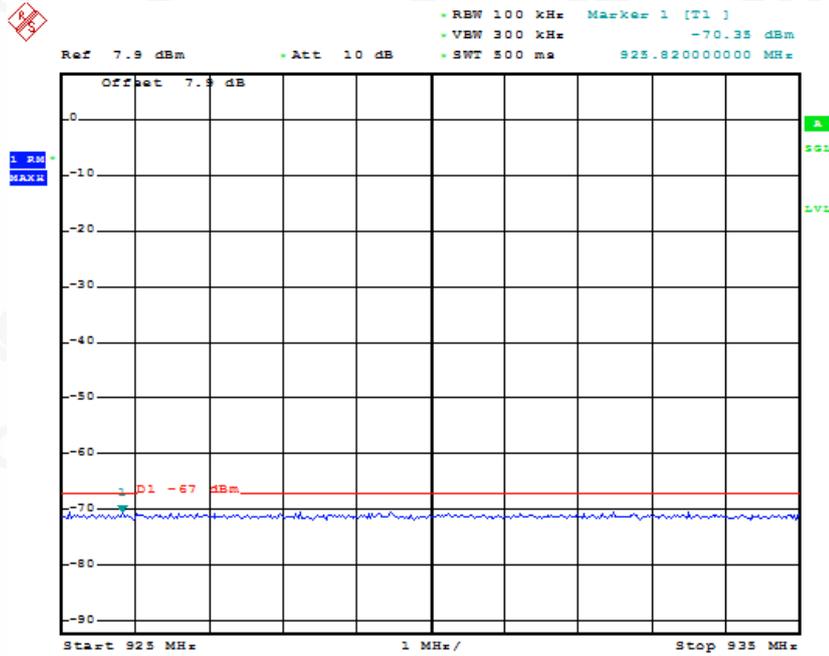
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925MHZ~935MHZ



AAA

Date: 16.OCT.2019 15:53:29



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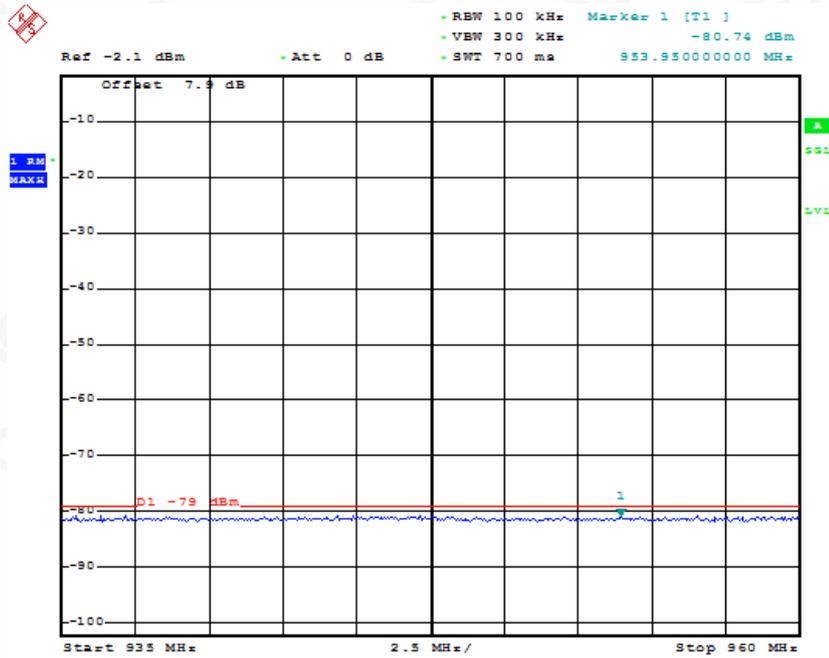
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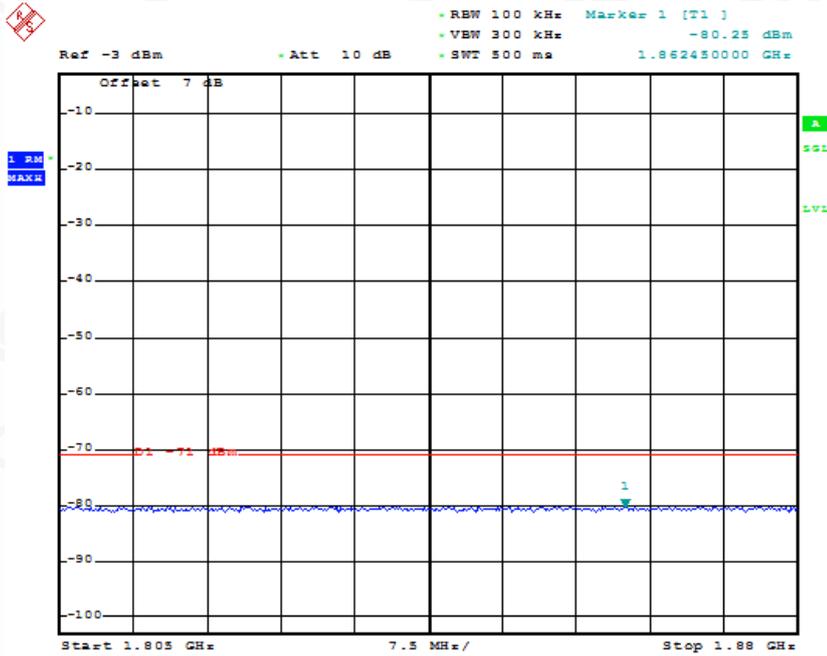
935MHZ~960MHZ



AAA

Date: 16.OCT.2019 15:53:52

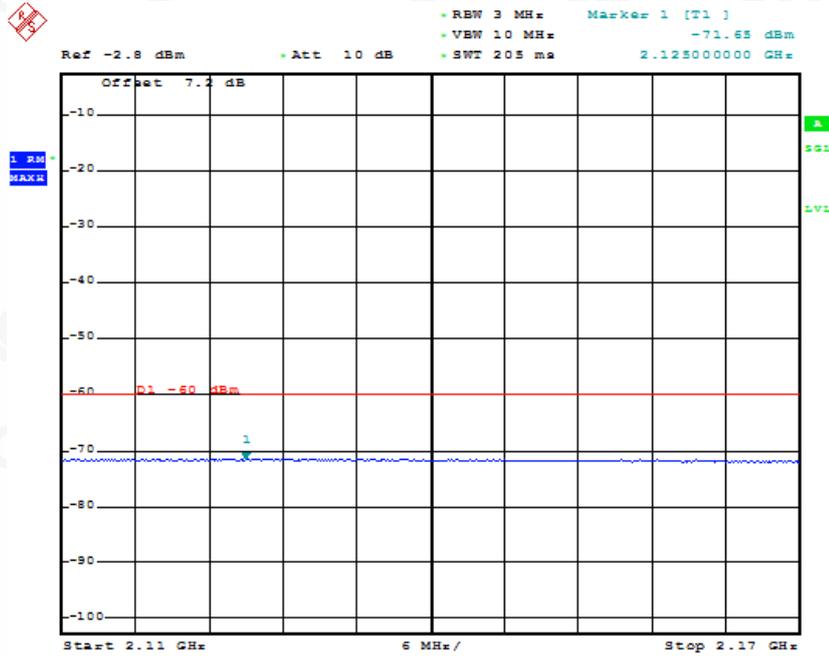
1805MHZ~1880MHZ



AAA

Date: 16.OCT.2019 15:54:04

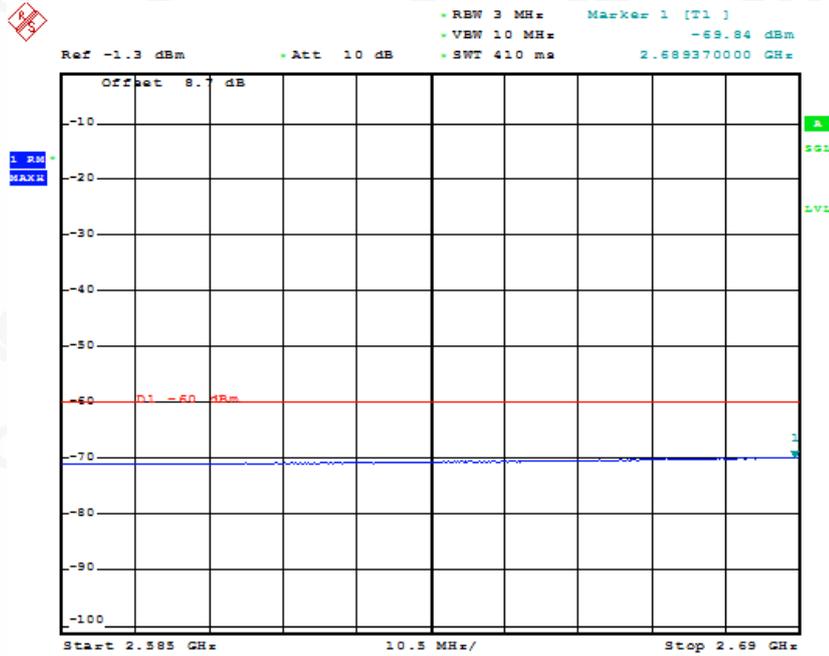
2110MHZ~2170MHZ



AAA

Date: 16.OCT.2019 15:54:49

2585MHZ~2690MHZ



AAA

Date: 16.OCT.2019 15:55:23



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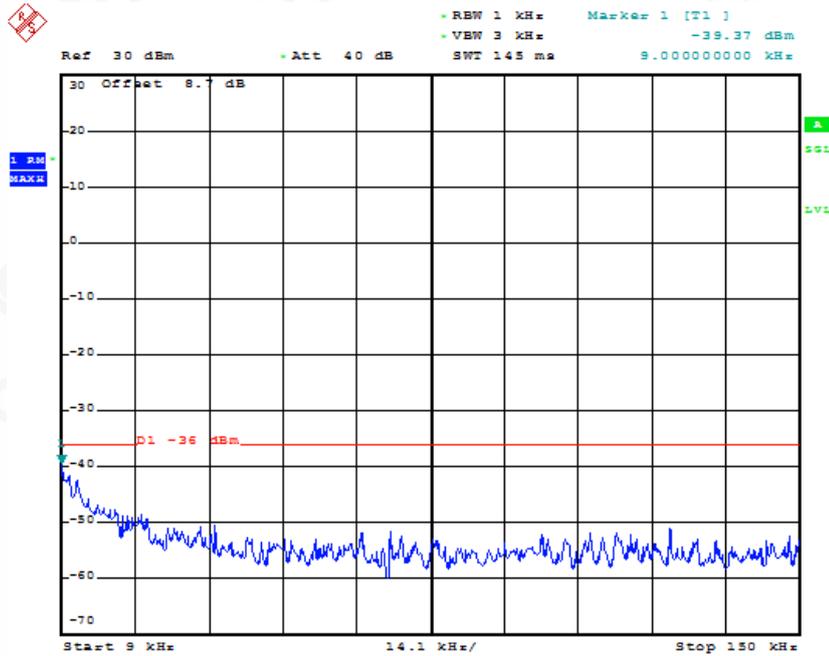
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E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

**Channel HCH**  
9KHZ~150KHZ



AAA

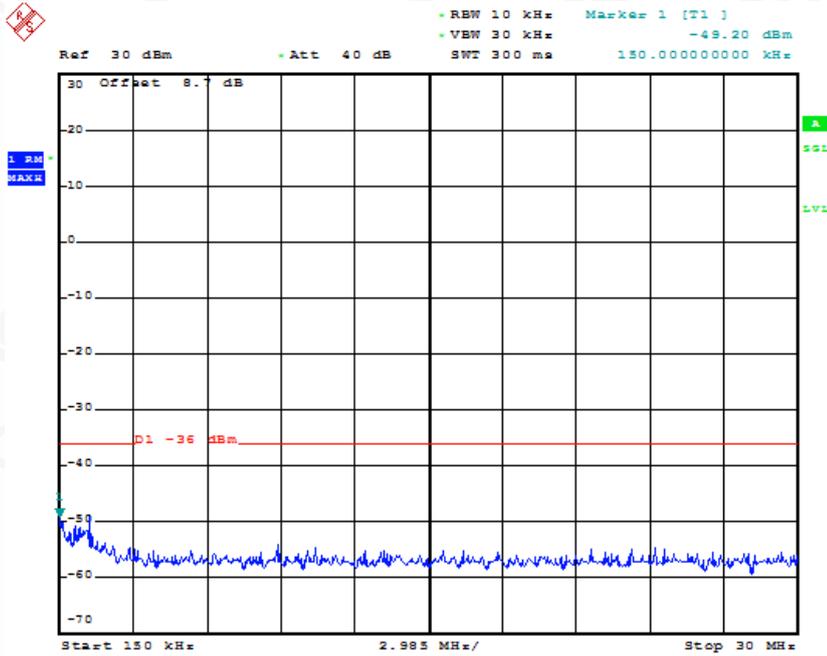
Date: 16.OCT.2019 15:55:45



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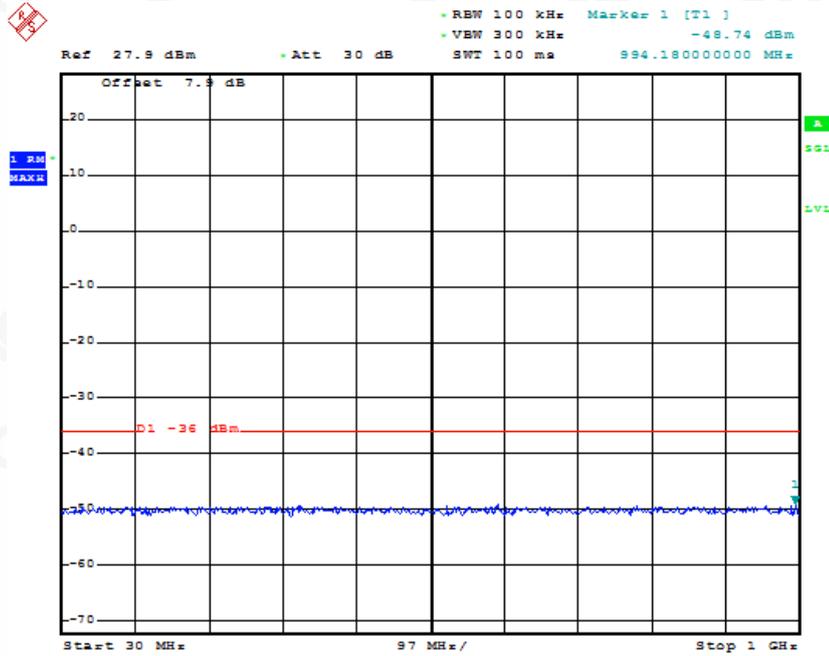
150KHZ~30MHZ



AAA

Date: 16.OCT.2019 15:55:57

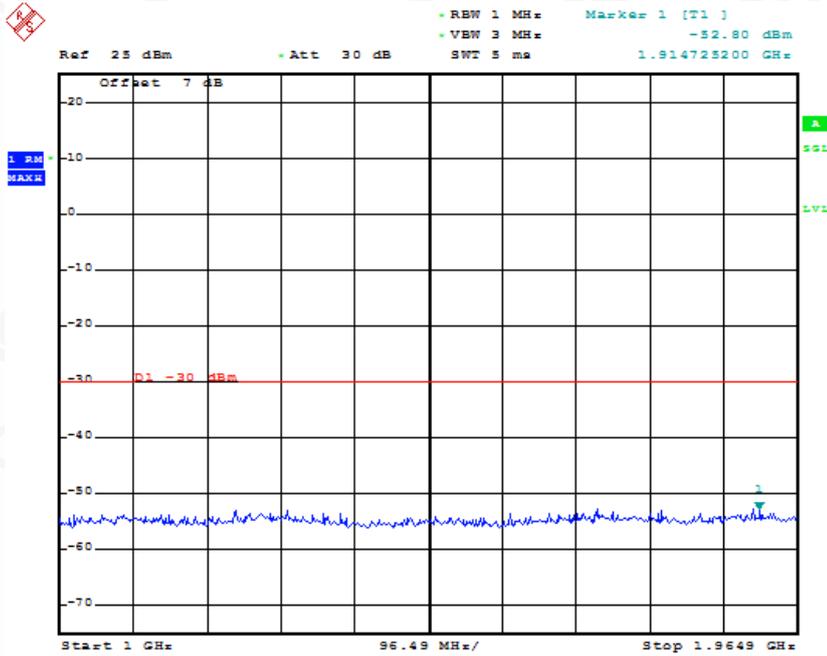
30MHZ~1GHZ



AAA

Date: 16.OCT.2019 15:56:09

1GHZ~1.9101GHZ



AAA

Date: 16.OCT.2019 15:56:22



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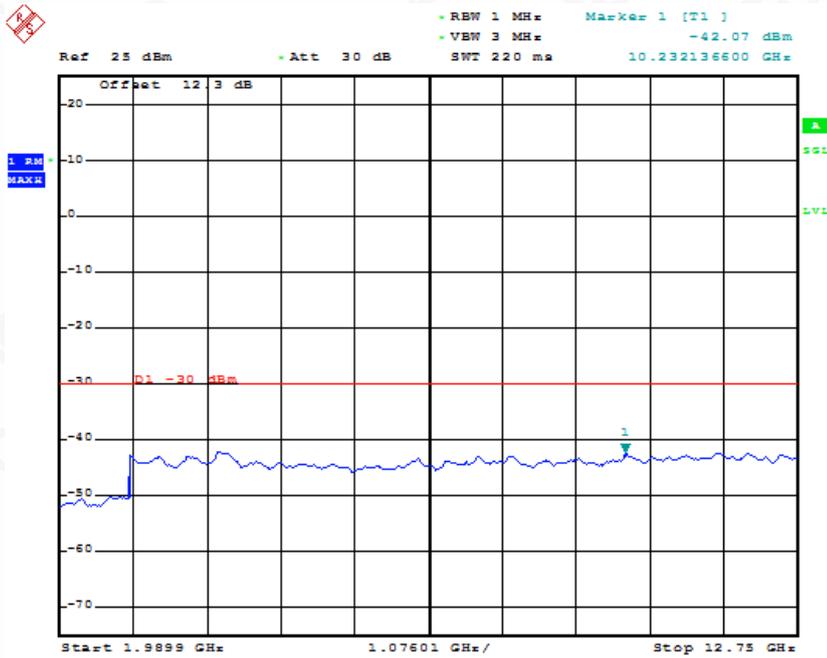
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

1.9899GHZ~12.75GHZ



AAA

Date: 16.OCT.2019 15:56:34



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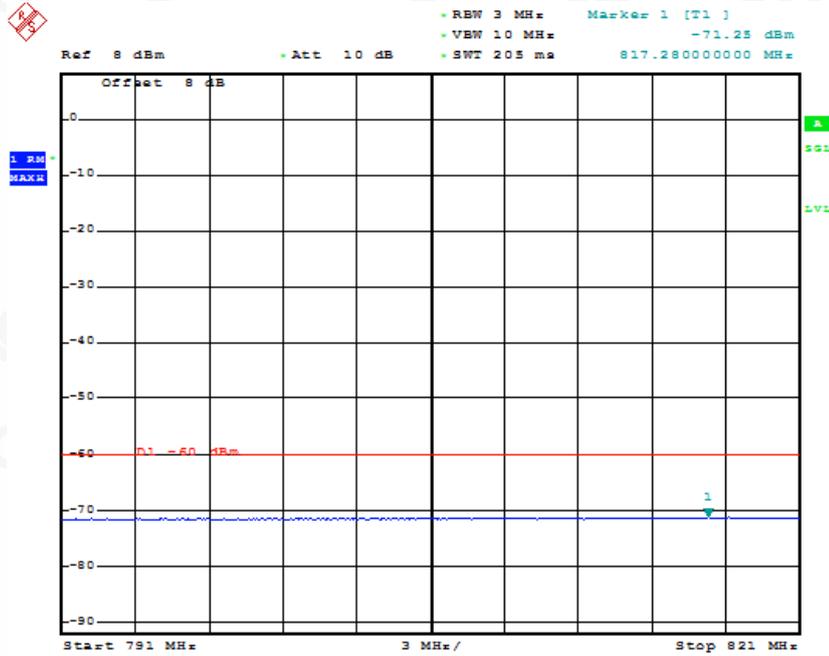
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

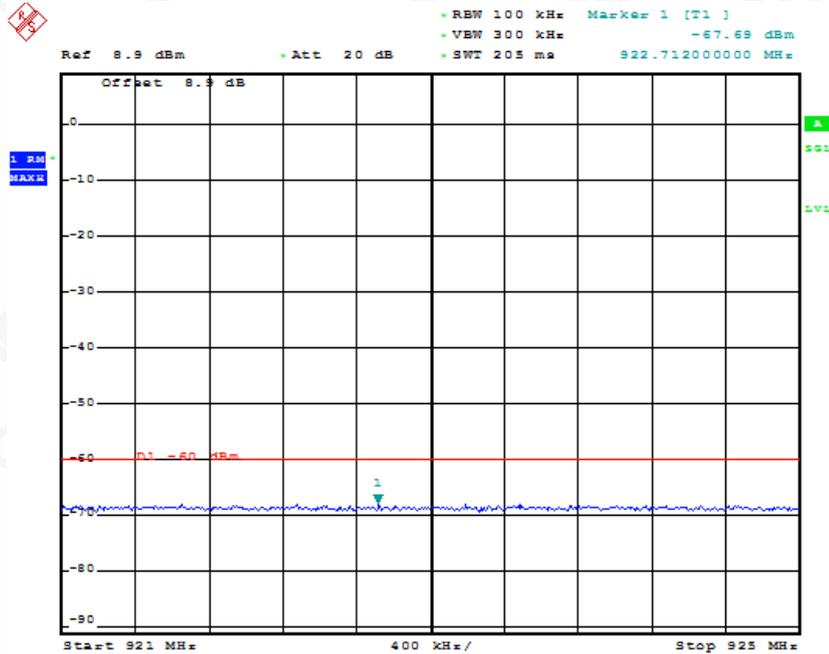
791MHZ~821MHZ



AAA

Date: 16.OCT.2019 15:57:19

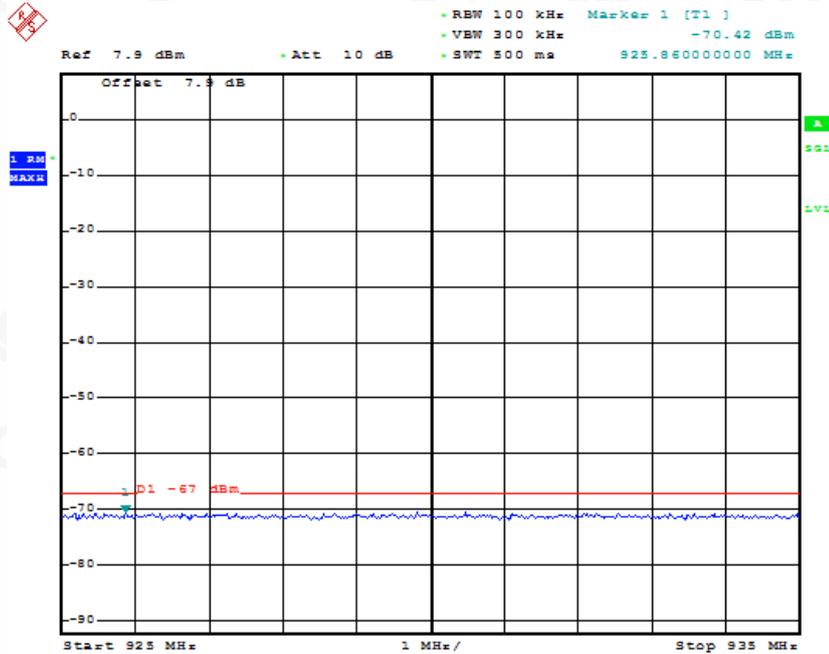
921MHZ~925MHZ



AAA

Date: 16.OCT.2019 15:58:04

925MHZ~935MHZ



AAA

Date: 16.OCT.2019 15:58:38



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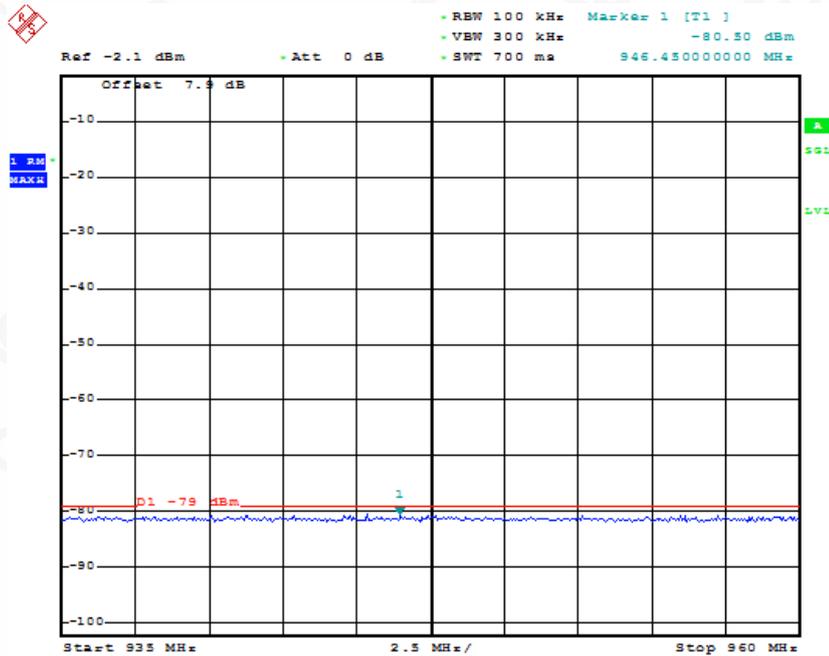
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

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935MHZ~960MHZ



AAA

Date: 16.OCT.2019 15:59:01



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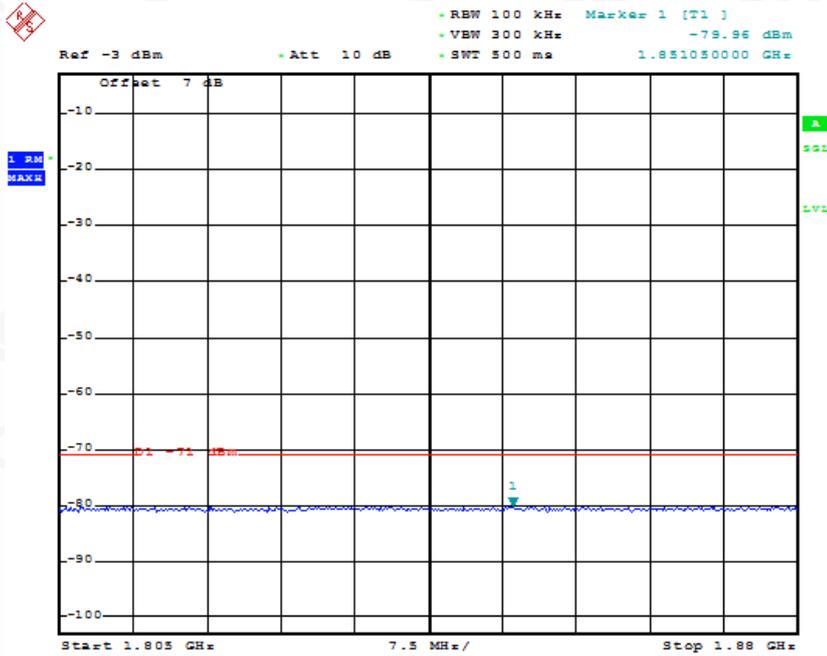
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

1805MHZ~1880MHZ

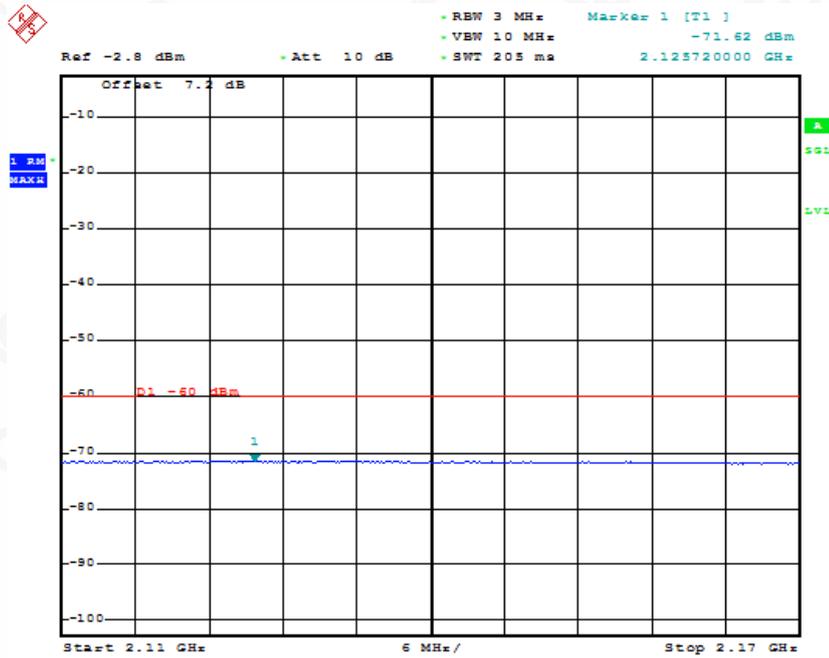


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Date: 16.OCT.2019 15:59:14



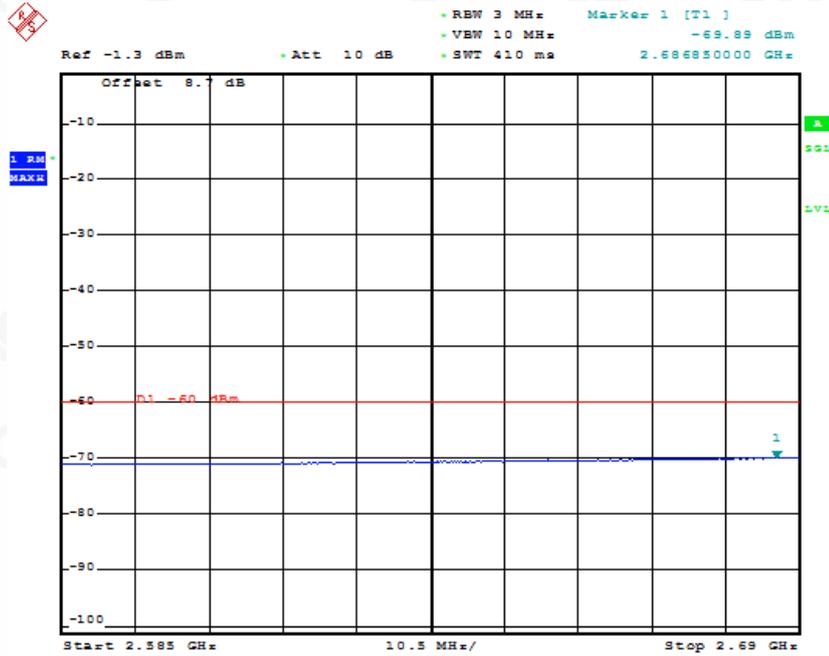
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Date: 16.OCT.2019 15:59:59

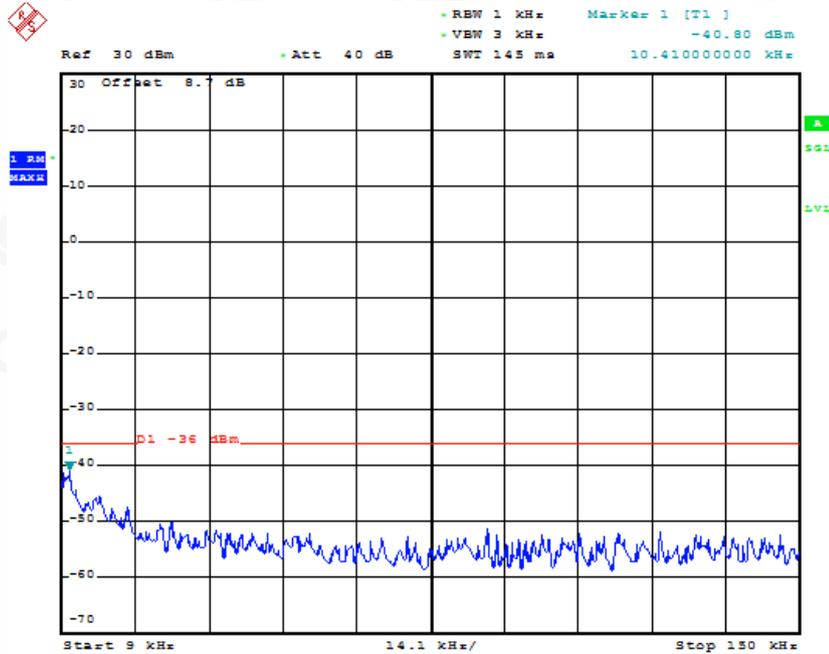
2585MHZ~2690MHZ



AAA

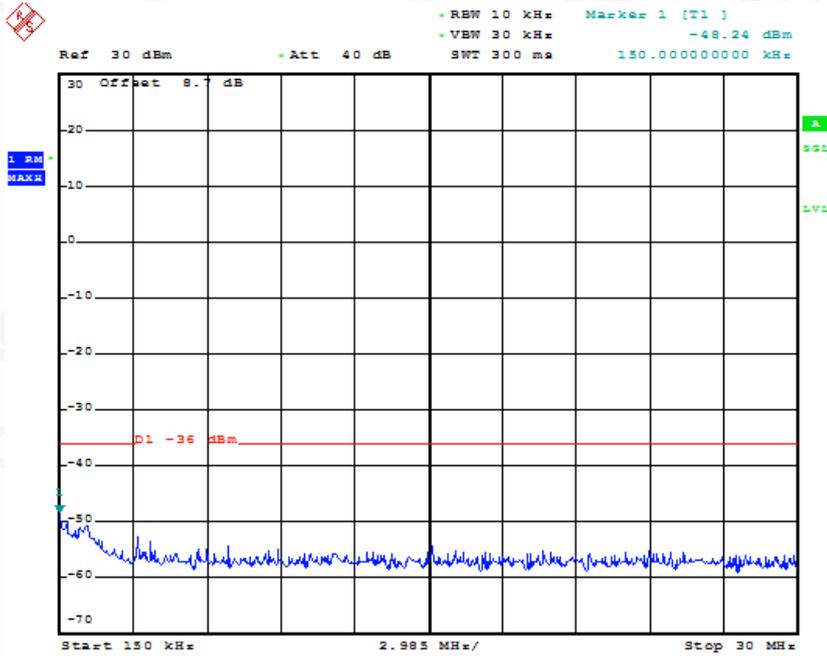
Date: 16.OCT.2019 16:00:33

**BAND VIII**  
**Channel LCH**  
**9KHZ~150KHZ**



AAA  
Date: 16.OCT.2019 17:22:29

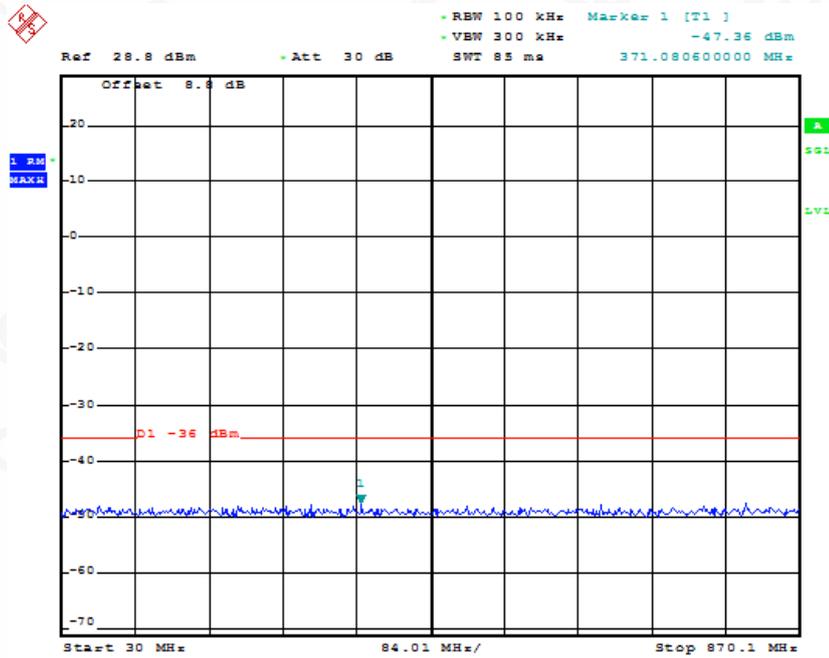
150KHZ~30MHZ



AAA

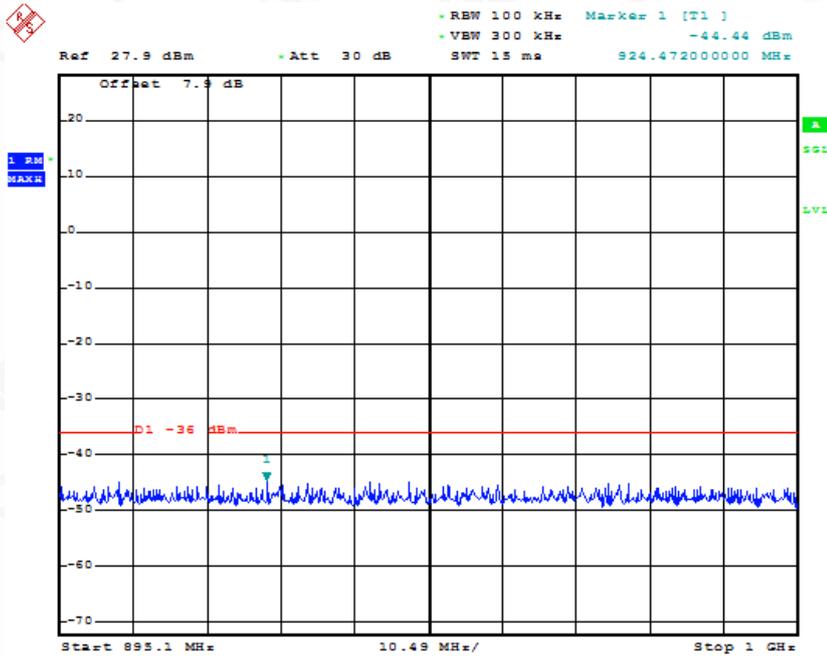
Date: 16.OCT.2019 17:22:41

30MHZ~1GHZ



AAA

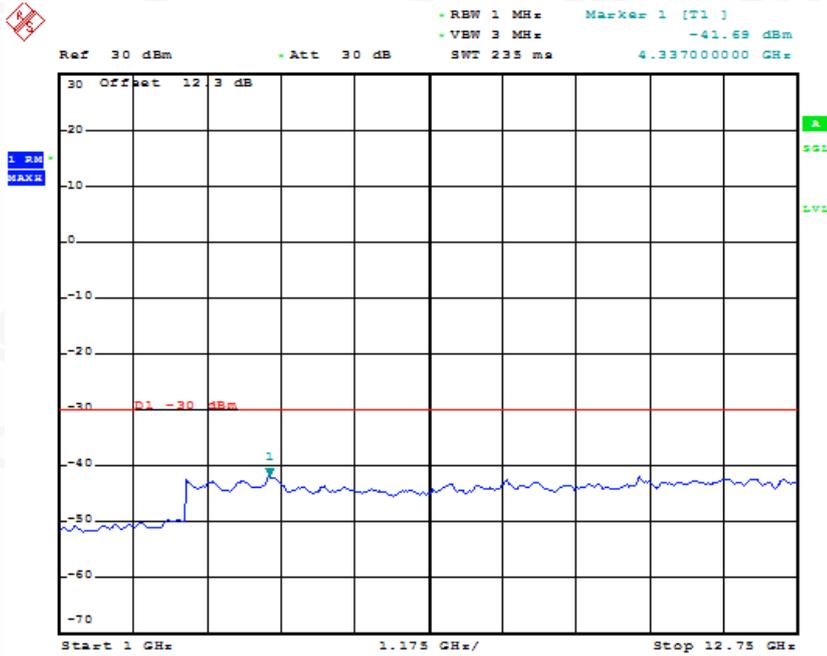
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AAA

Date: 16.OCT.2019 17:23:06

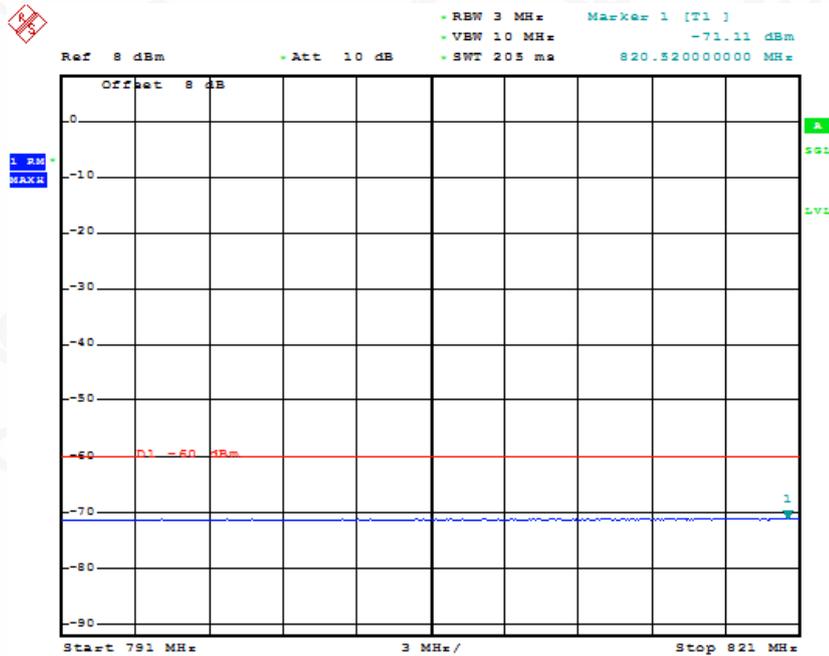
1GHZ~12.75GHZ



AAA

Date: 16.OCT.2019 17:23:18

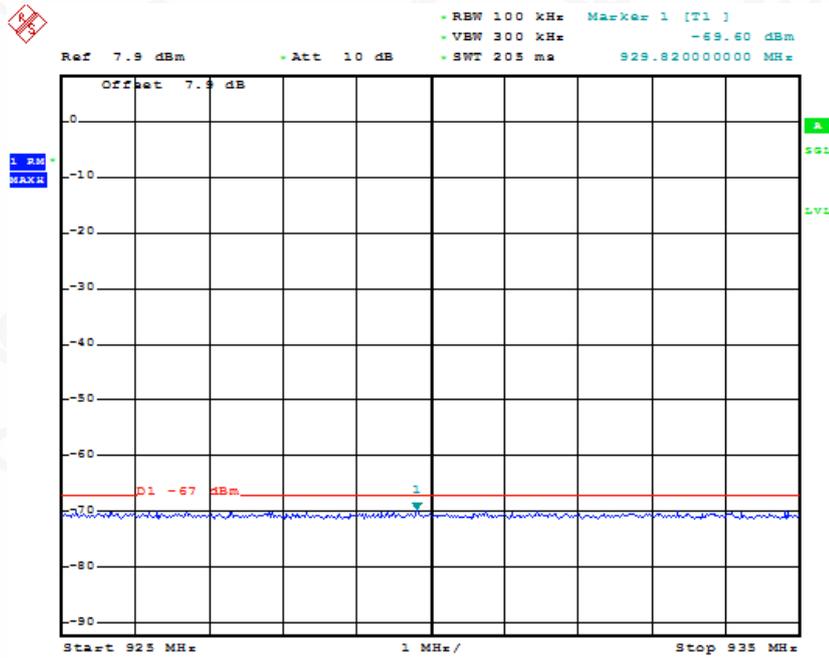
791MHZ~821MHZ



AAA

Date: 16.OCT.2019 17:24:03

925MHZ~935MHZ



AAA

Date: 16.OCT.2019 17:24:48



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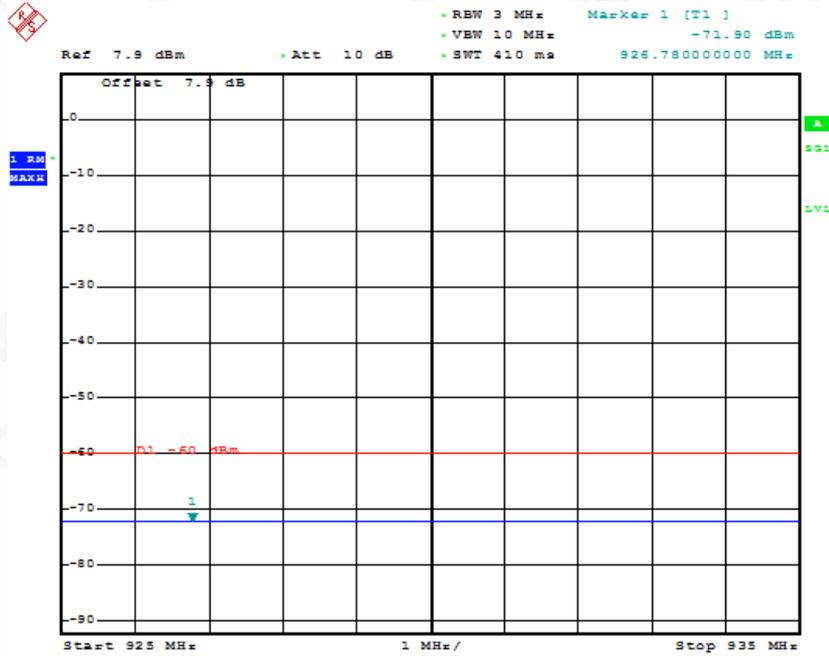
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

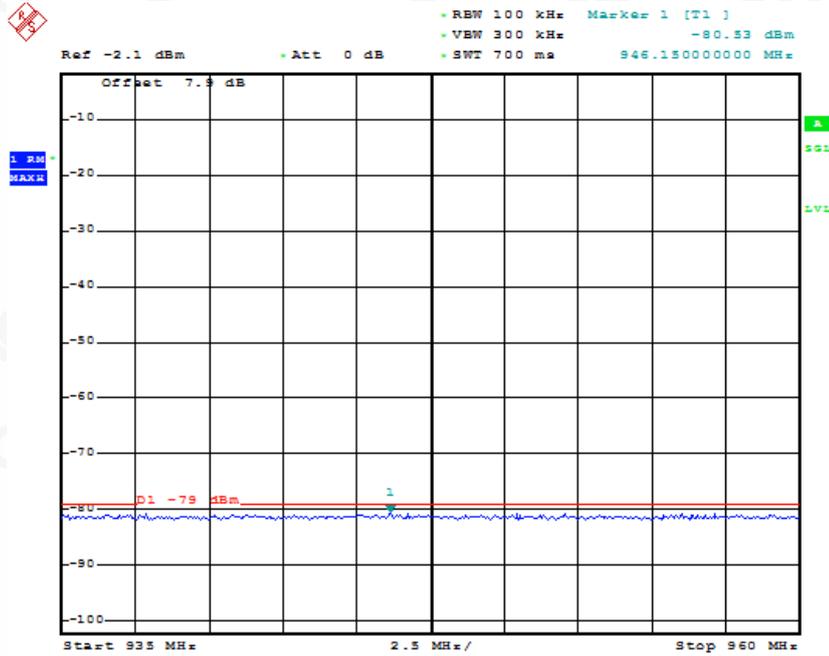
925MHZ~935MHZ



AAA

Date: 16.OCT.2019 17:25:55

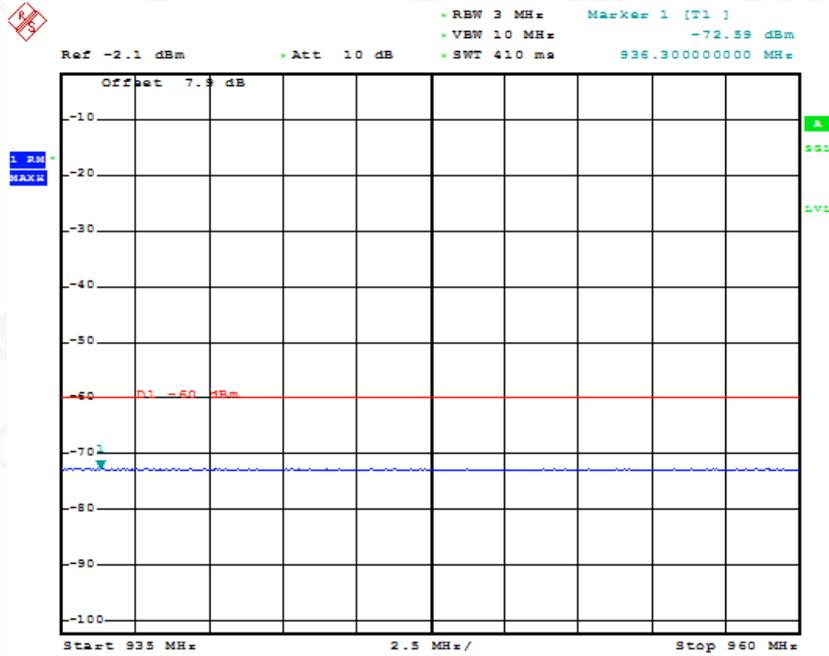
935MHZ~960MHZ



AAA

Date: 16.OCT.2019 17:26:18

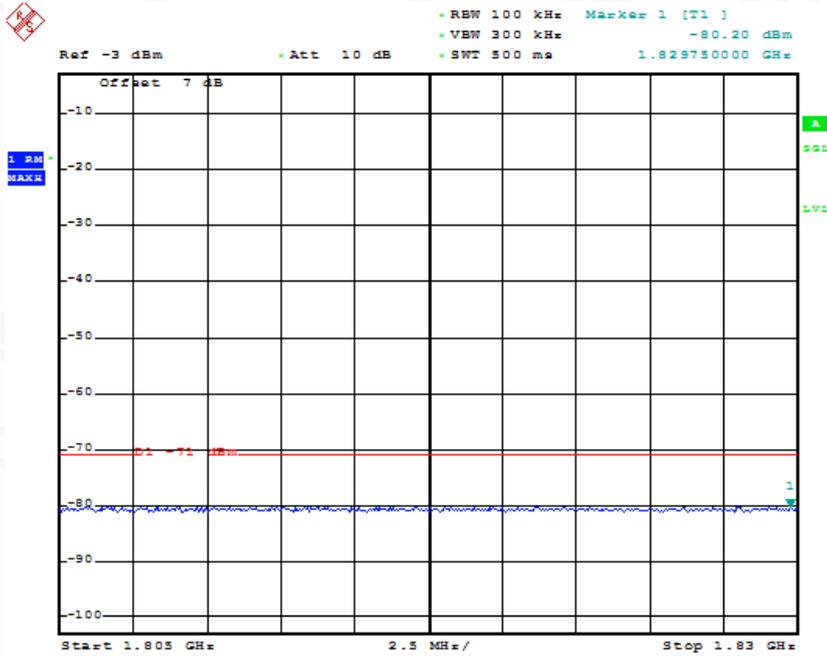
935MHZ~960MHZ



AAA

Date: 16.OCT.2019 17:27:25

1805MHZ~1830MHZ

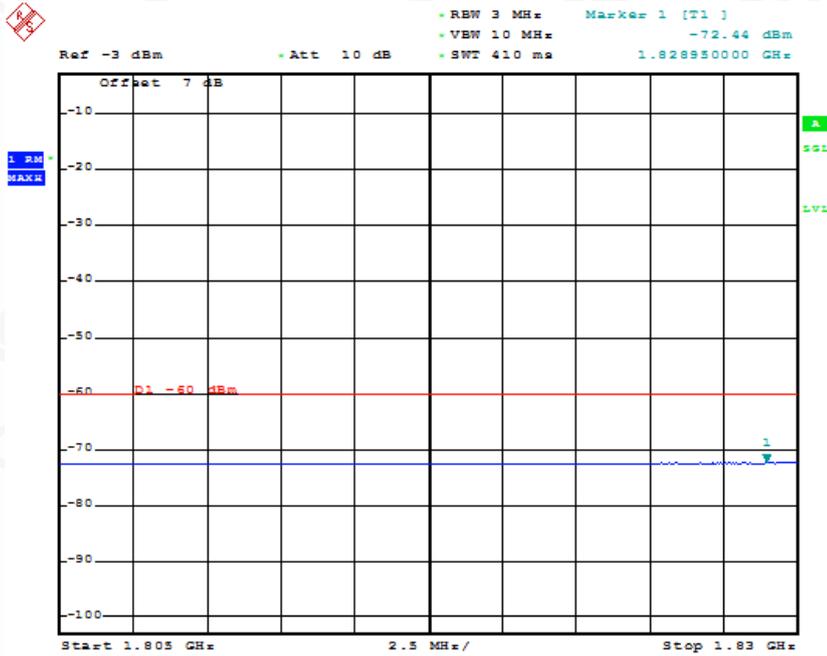


AAA

Date: 16.OCT.2019 17:27:37



1805MHZ~1830MHZ

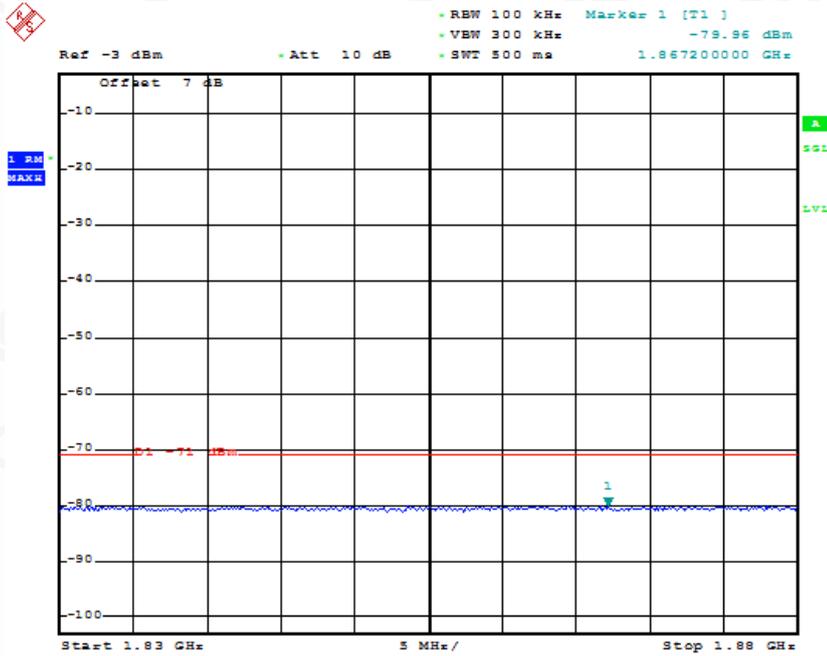


AAA

Date: 16.OCT.2019 17:28:43



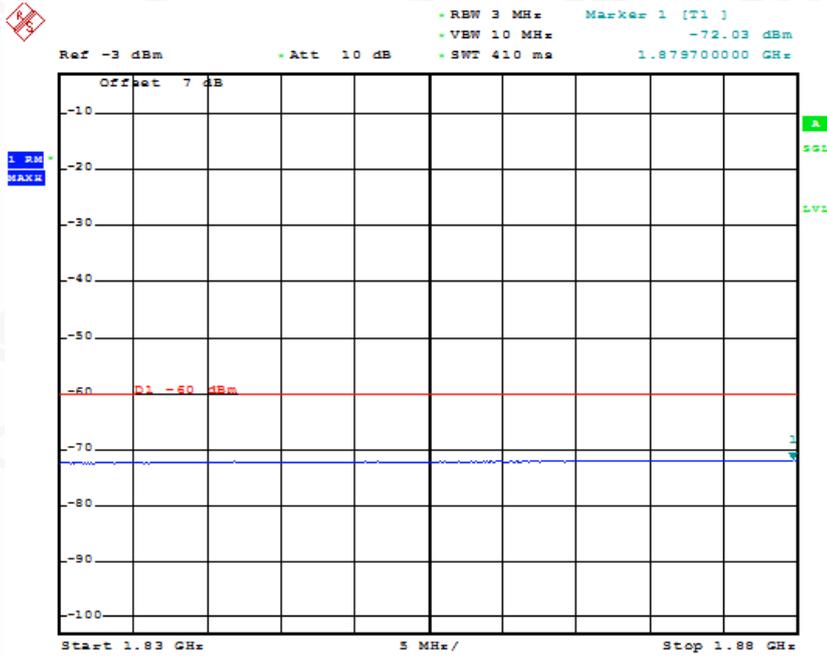
1830MHZ~1880MHZ



AAA

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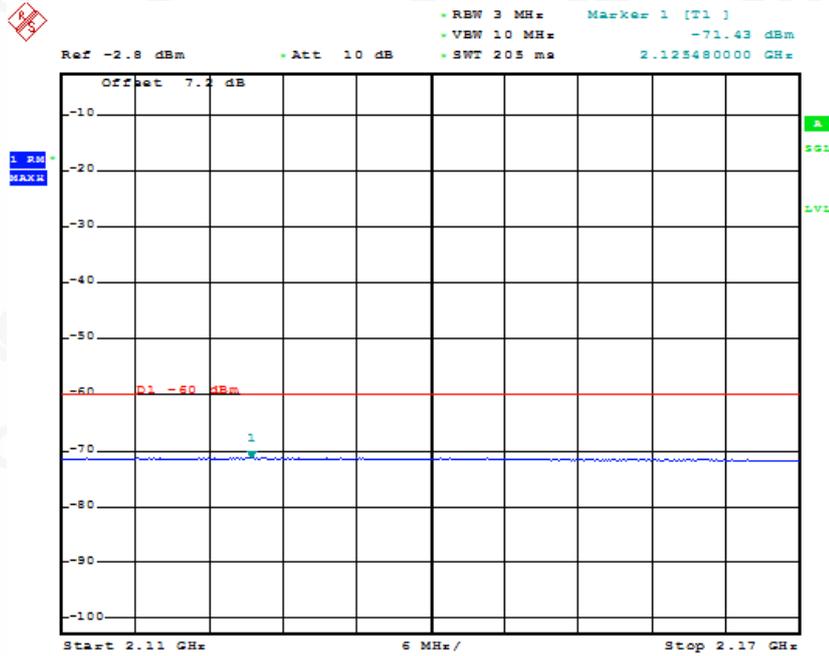
1830MHZ~1880MHZ



AAA

Date: 16.OCT.2019 17:30:02

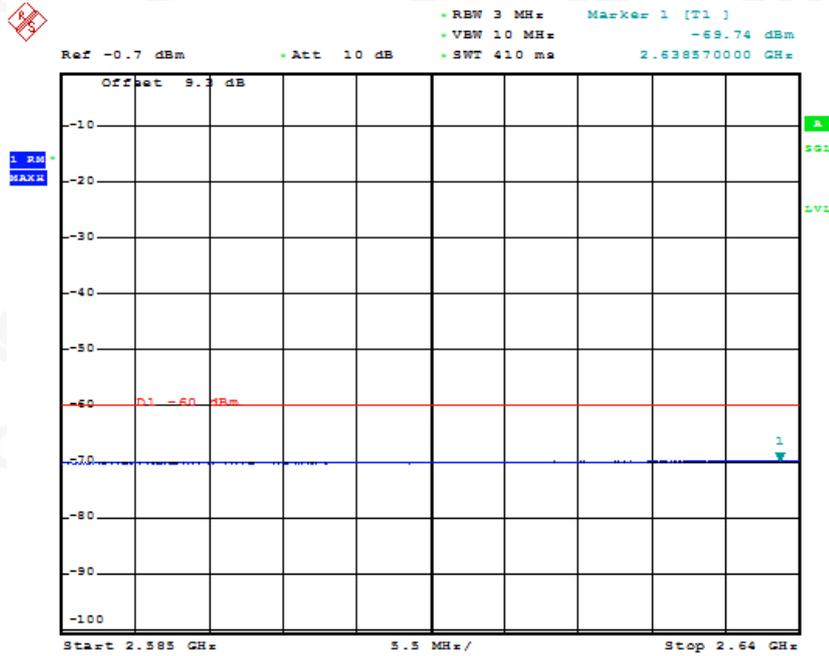
2110MHZ~2170MHZ



AAA

Date: 16.OCT.2019 17:30:47

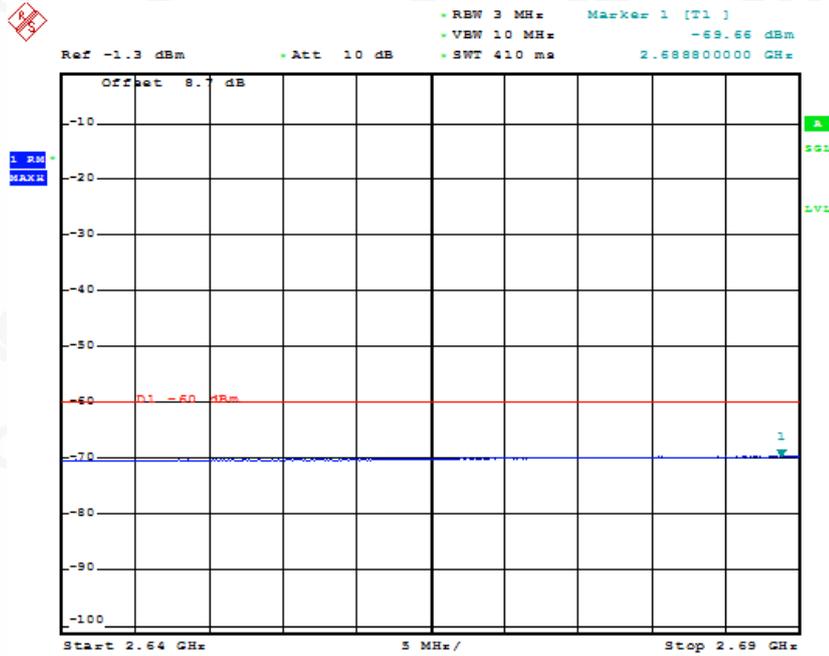
2585MHZ~2640MHZ



AAA

Date: 16.OCT.2019 17:31:21

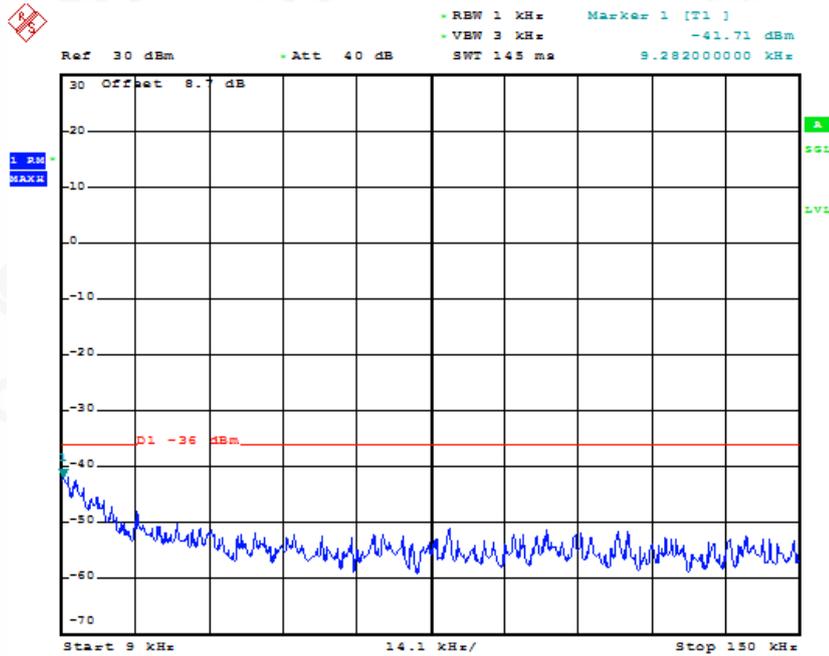
2640MHZ~2690MHZ



AAA

Date: 16.OCT.2019 17:31:56

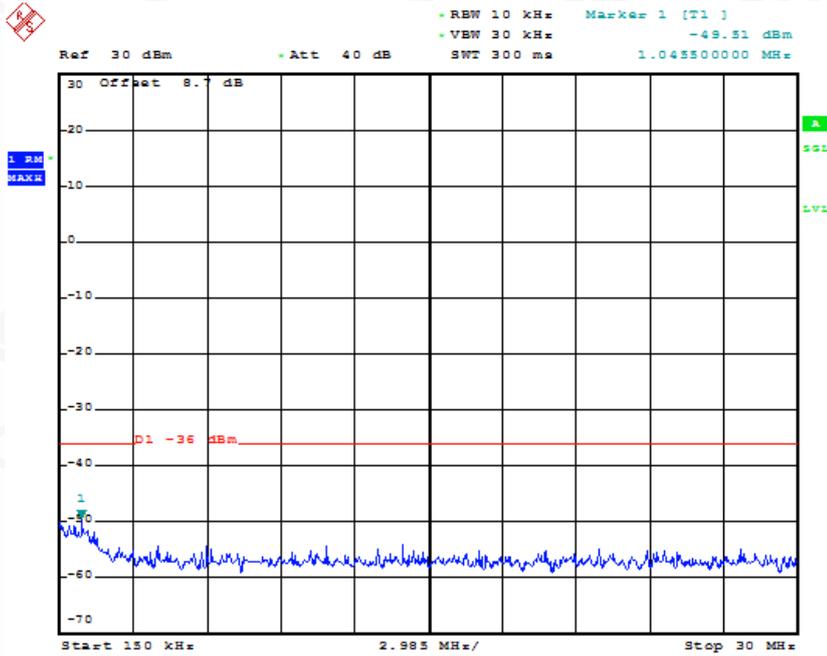
**Channel MCH**  
9KHZ~150KHZ



AAA

Date: 16.OCT.2019 17:32:17

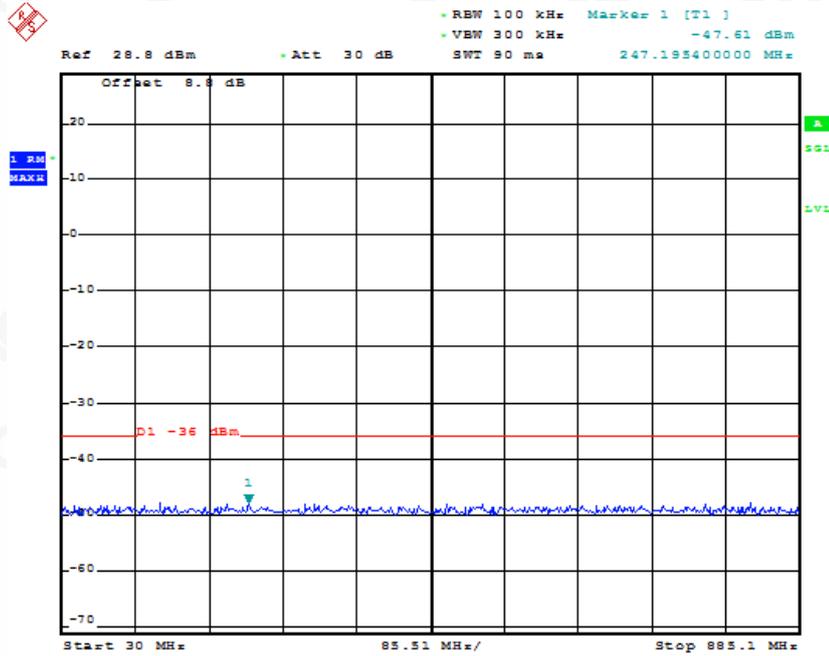
150KHZ~30MHZ



AAA

Date: 16.OCT.2019 17:32:29

30MHZ~1GHZ



AAA

Date: 16.OCT.2019 17:32:41



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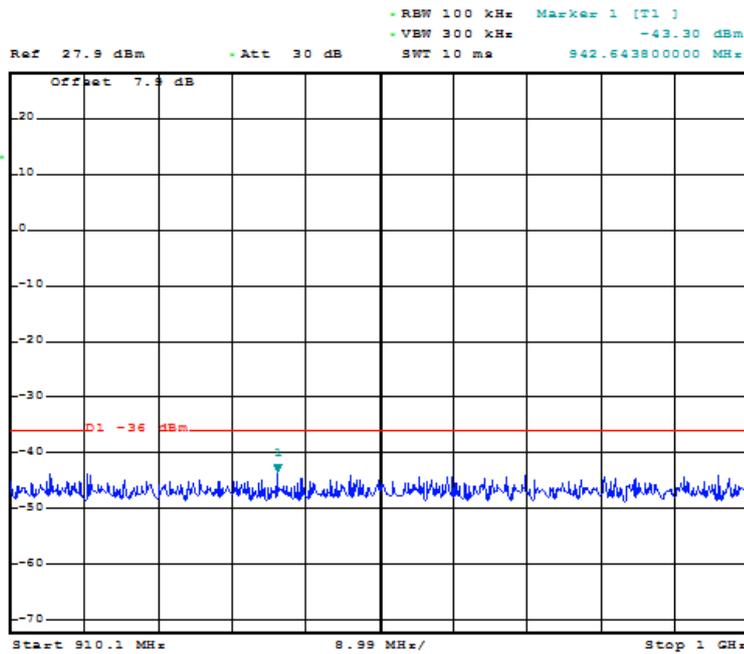
Attestation of Global Compliance(Shenzhen)Co.,Ltd.

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

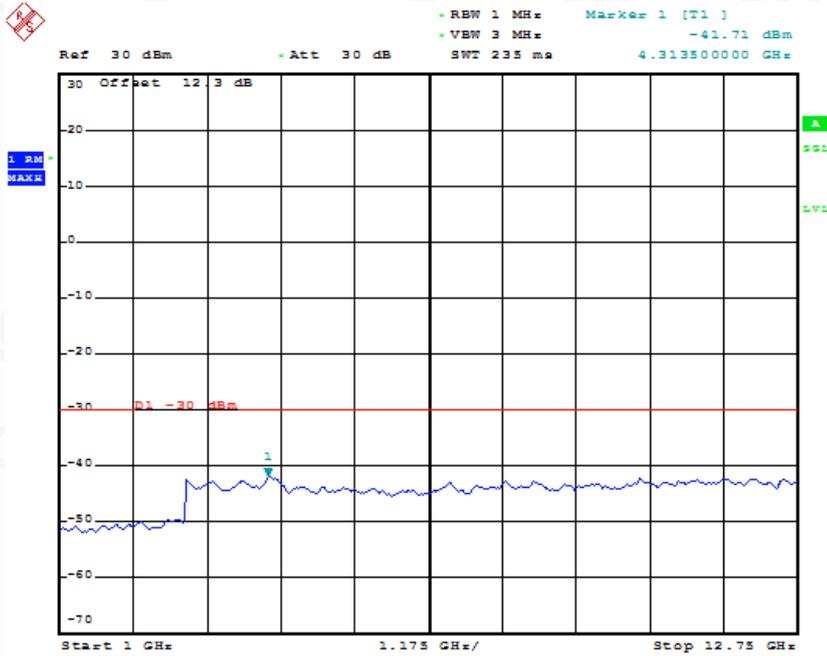
Service Hotline:400 089 2118



AAA

Date: 16.OCT.2019 17:32:54

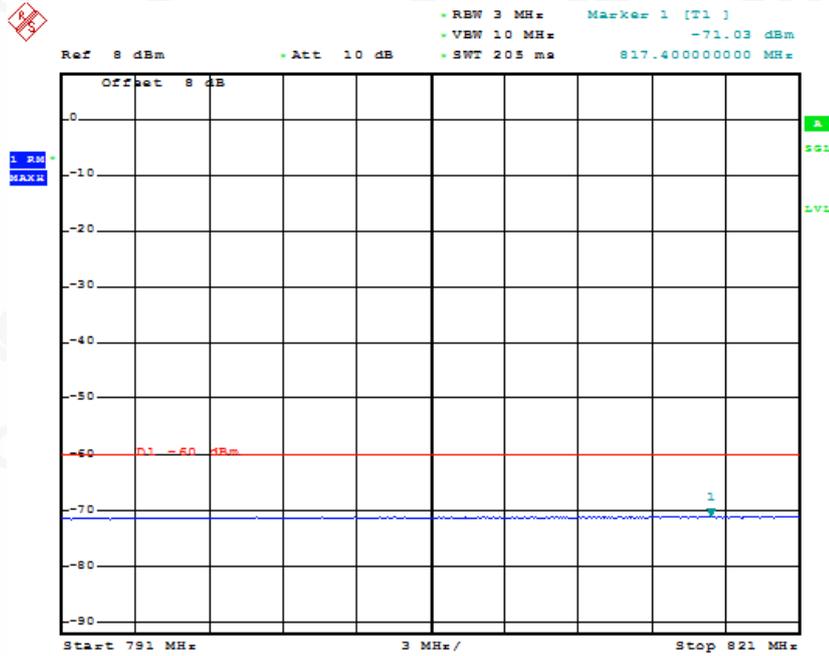
1GHZ~12.75GHZ



AAA

Date: 16.OCT.2019 17:33:06

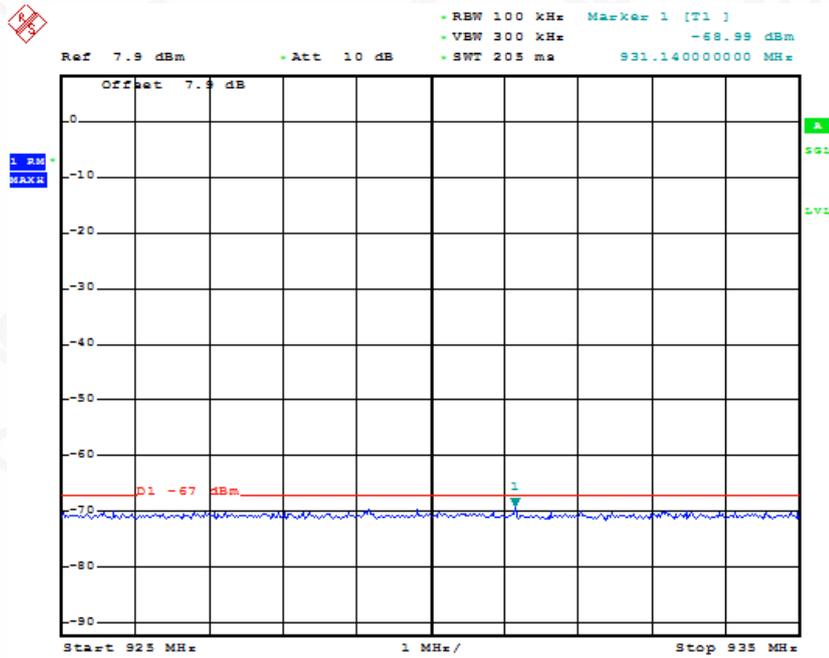
791MHZ~821MHZ



AAA

Date: 16.OCT.2019 17:33:51

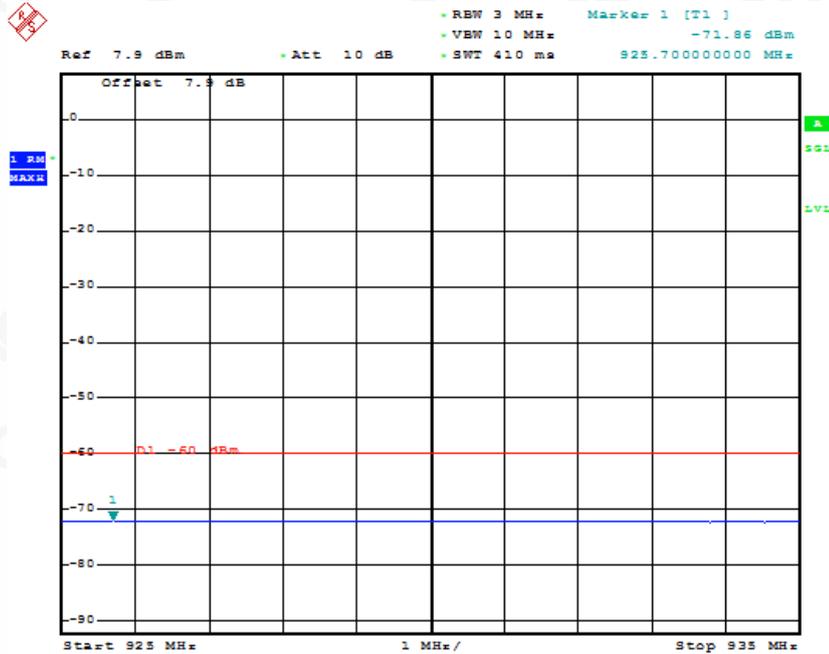
925MHZ~935MHZ



AAA

Date: 16.OCT.2019 17:34:36

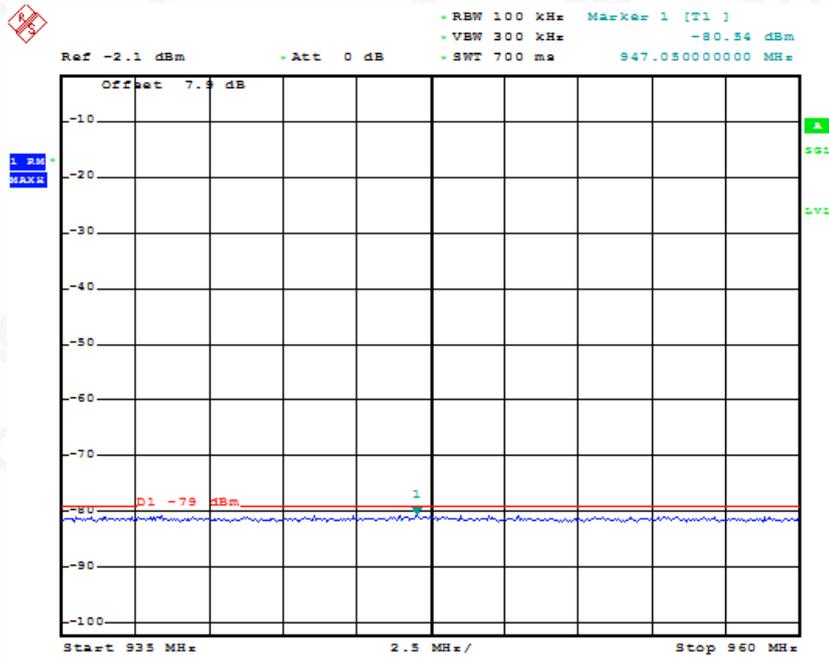
925MHZ~935MHZ



AAA

Date: 16.OCT.2019 17:35:43

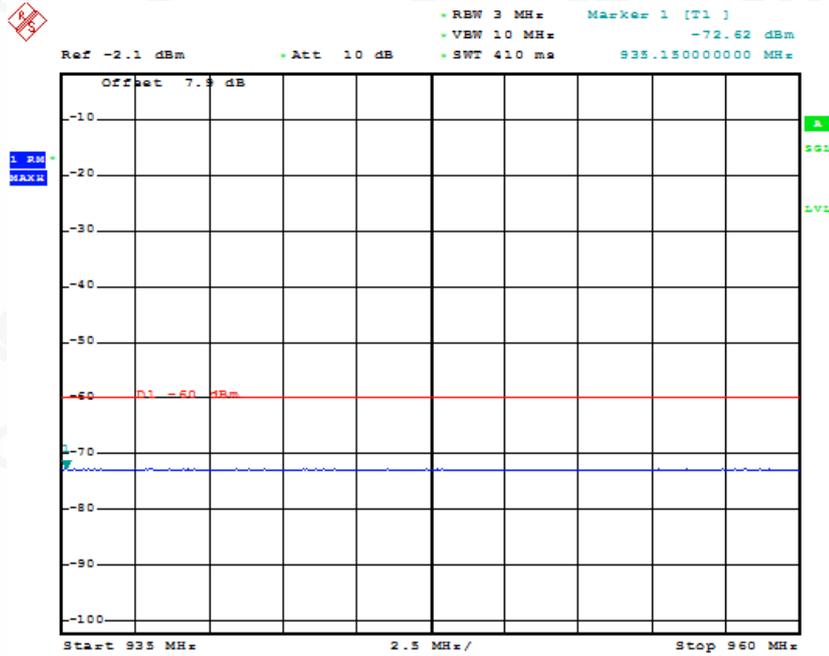
935MHZ~960MHZ



AAA

Date: 16.OCT.2019 17:36:06

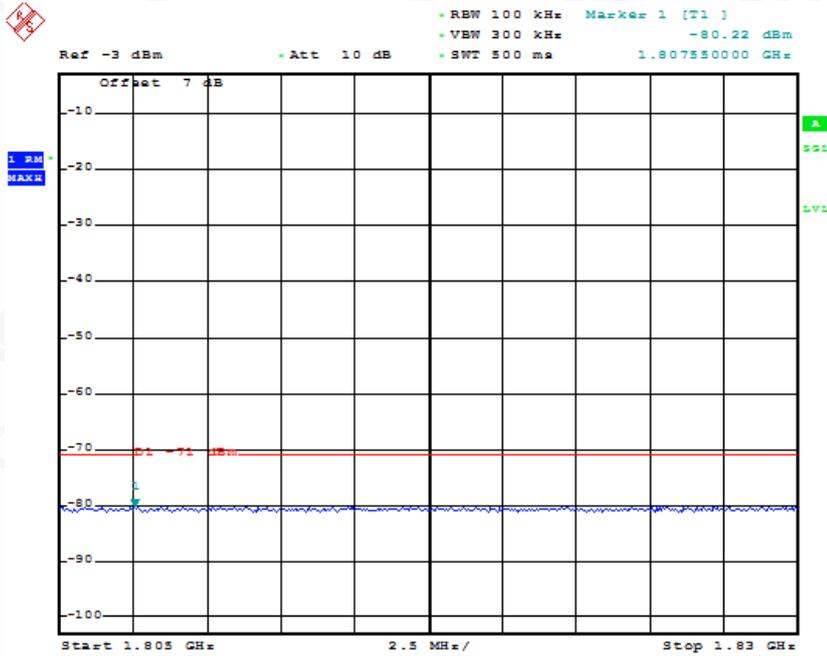
935MHZ~960MHZ



AAA

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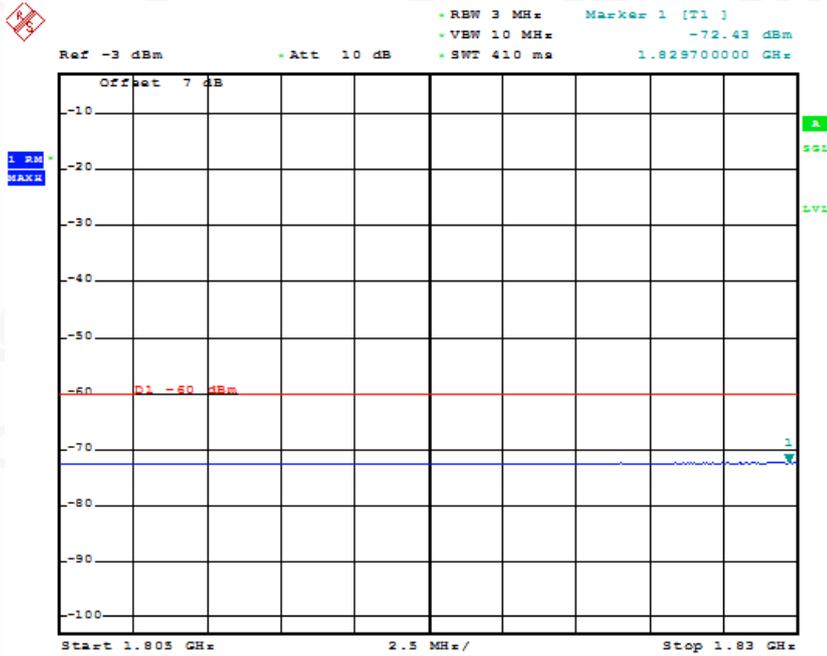
1805MHZ~1830MHZ



AAA

Date: 16.OCT.2019 17:37:25

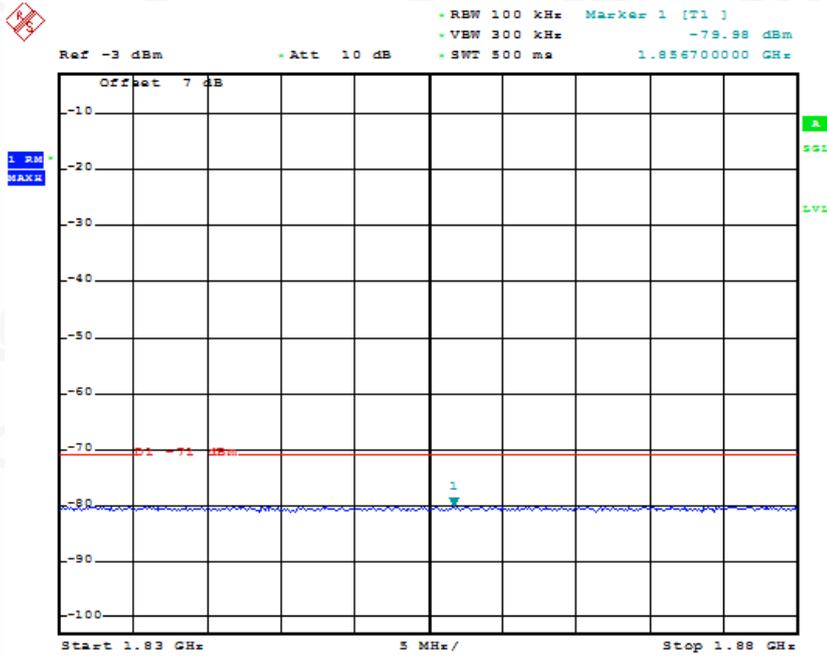
1805MHZ~1830MHZ



AAA

Date: 16.OCT.2019 17:38:32

1830MHZ~1880MHZ



AAA

Date: 16.OCT.2019 17:38:44



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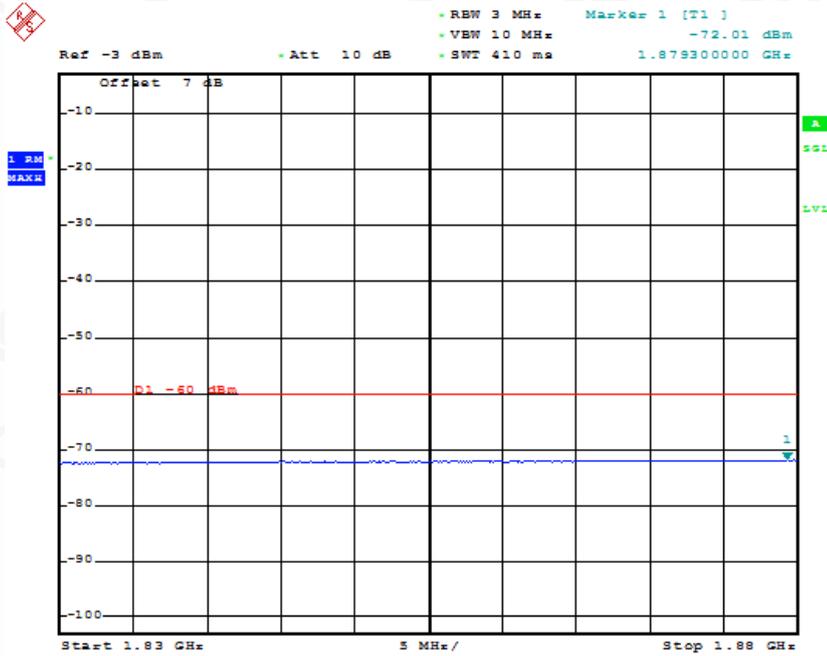
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

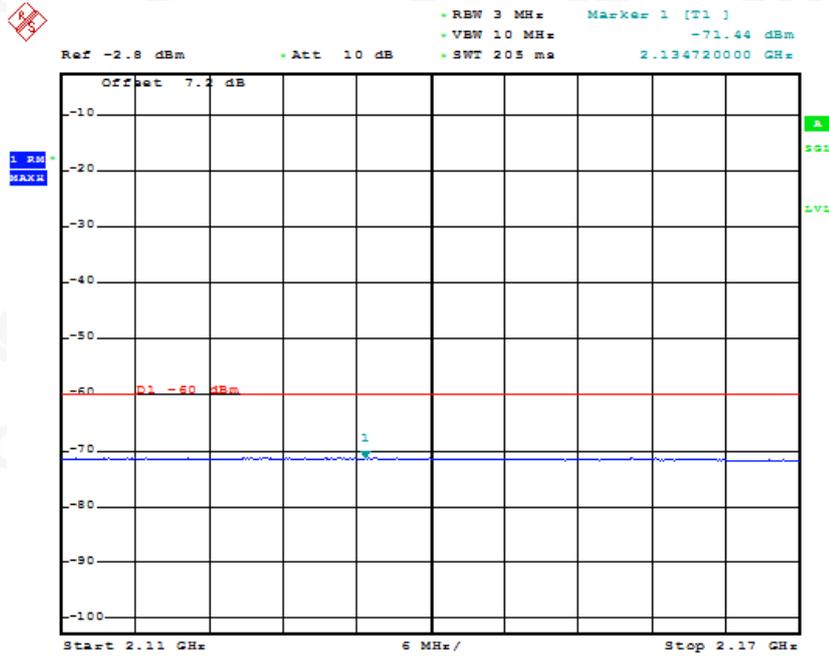
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AAA

Date: 16.OCT.2019 17:39:51

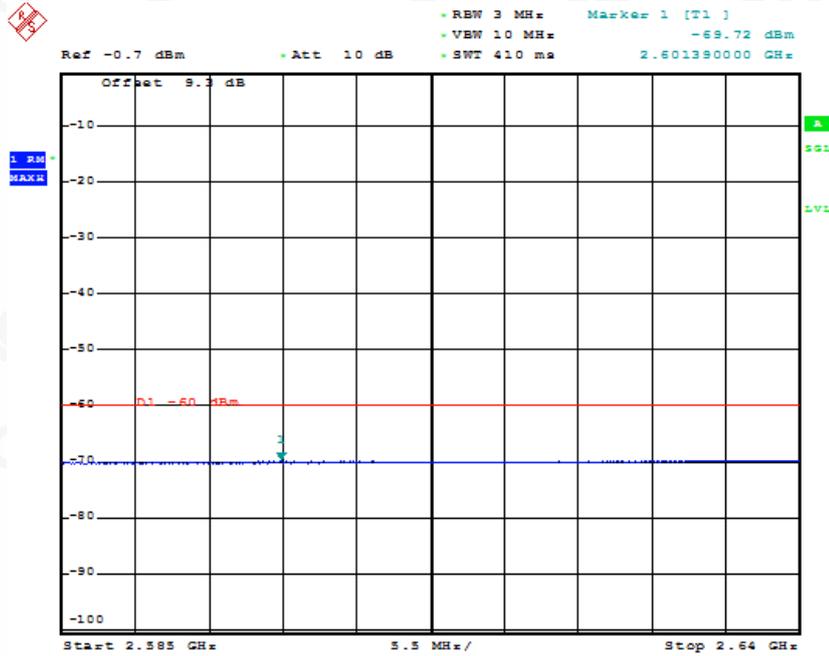
2110MHZ~2170MHZ



AAA

Date: 16.OCT.2019 17:40:36

2585MHZ~2640MHZ

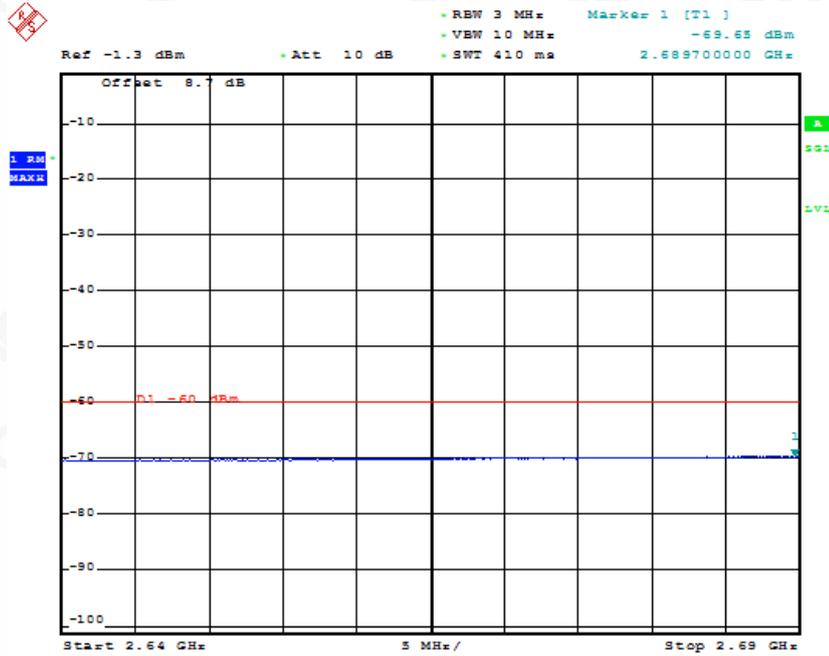


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Date: 16.OCT.2019 17:41:10



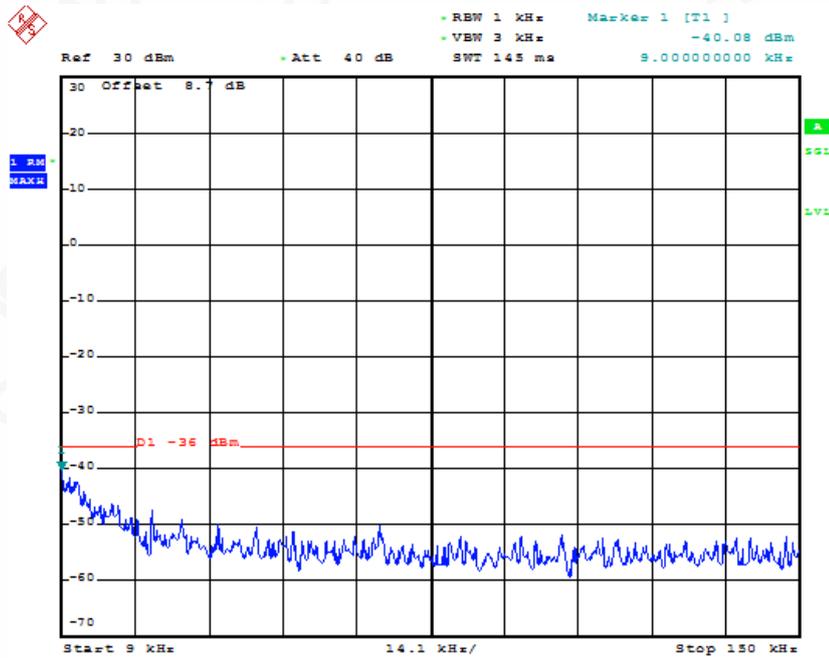
2640MHZ~2690MHZ



AAA

Date: 16.OCT.2019 17:41:44

**Channel HCH**  
9KHZ~150KHZ

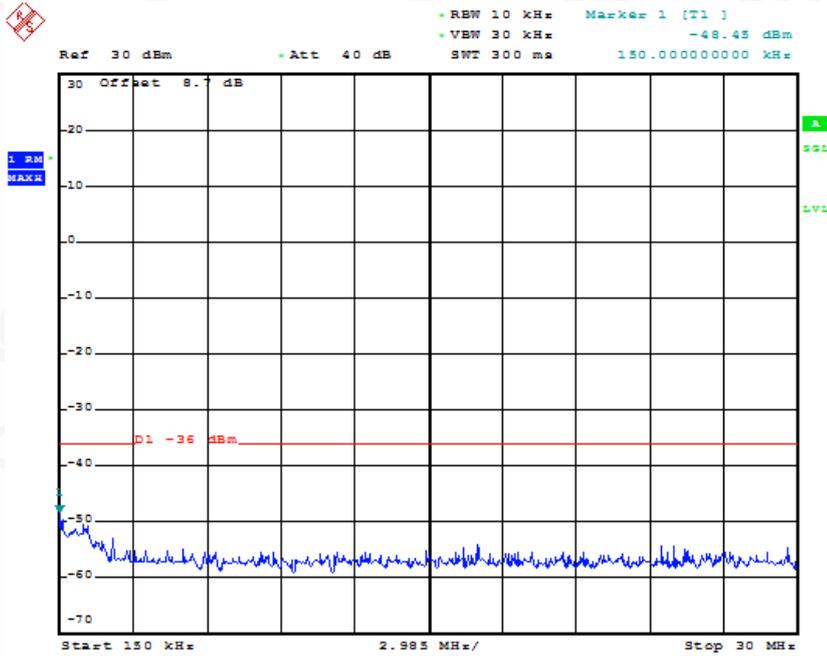


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Date: 16.OCT.2019 17:42:06



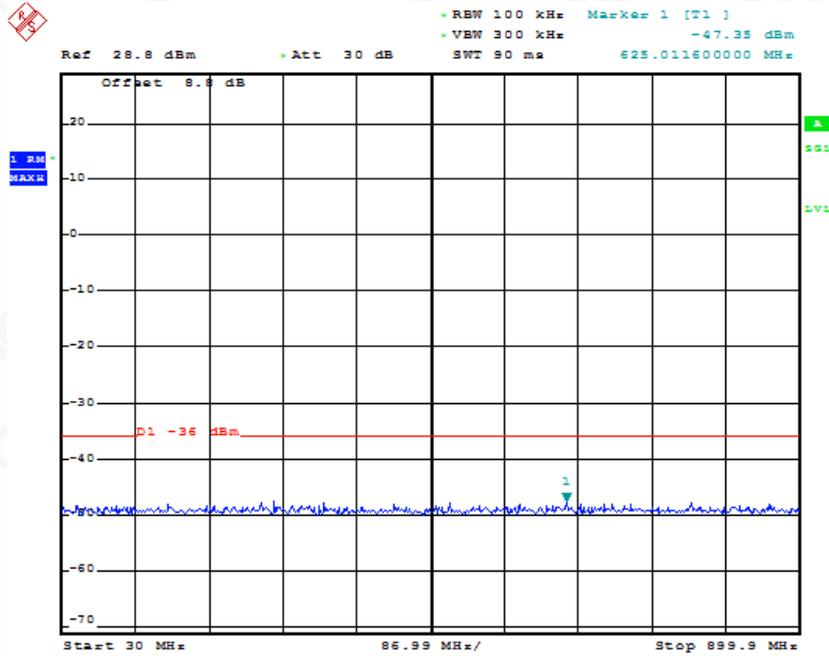
150KHZ~30MHZ



AAA

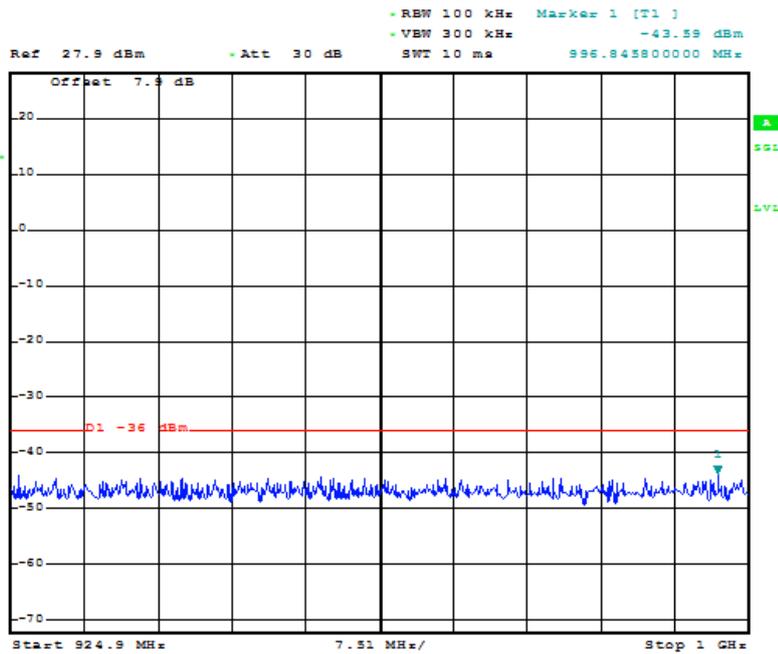
Date: 16.OCT.2019 17:42:18

30MHZ~1GHZ



AAA

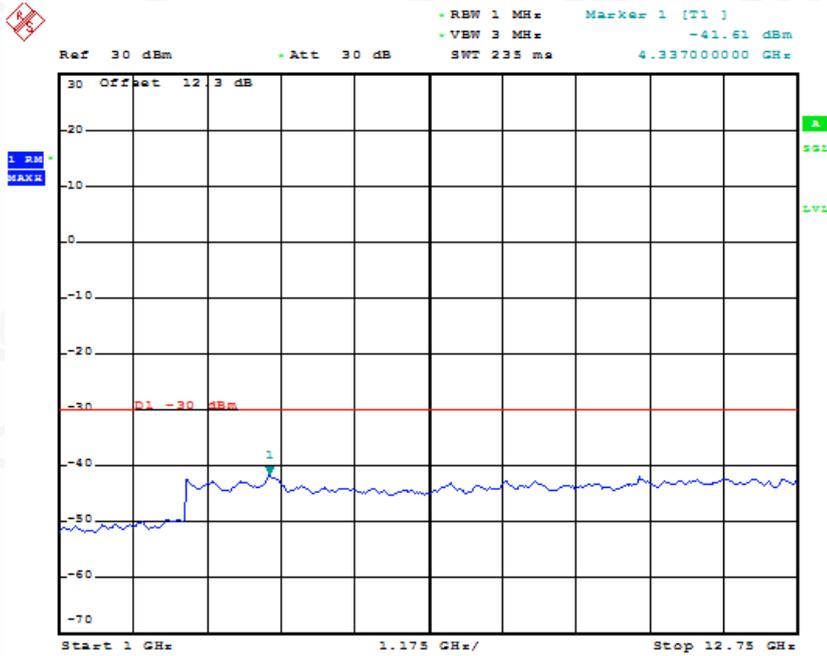
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AAA

Date: 16.OCT.2019 17:42:43

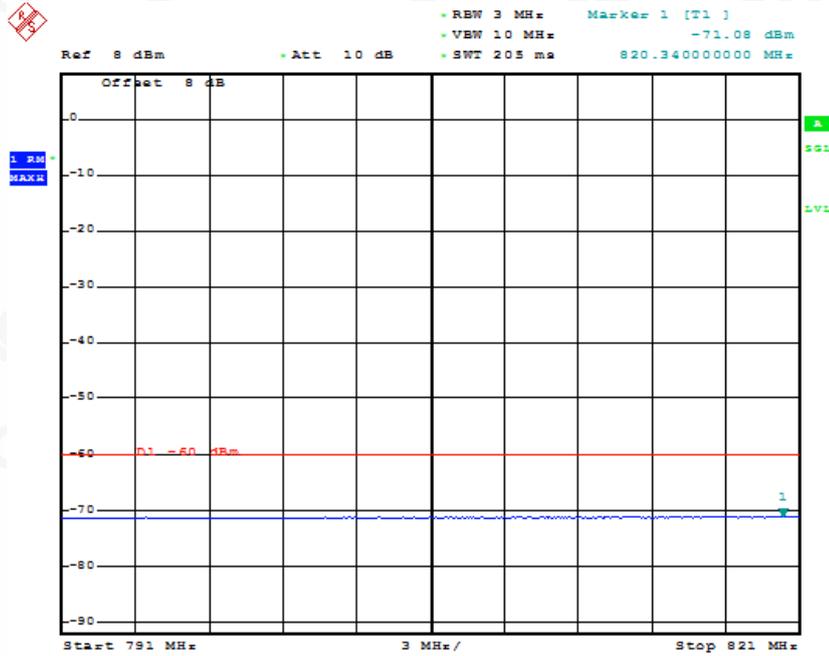
1GHZ~12.75GHZ



AAA

Date: 16.OCT.2019 17:42:55

791MHZ~821MHZ



AAA

Date: 16.OCT.2019 17:43:40



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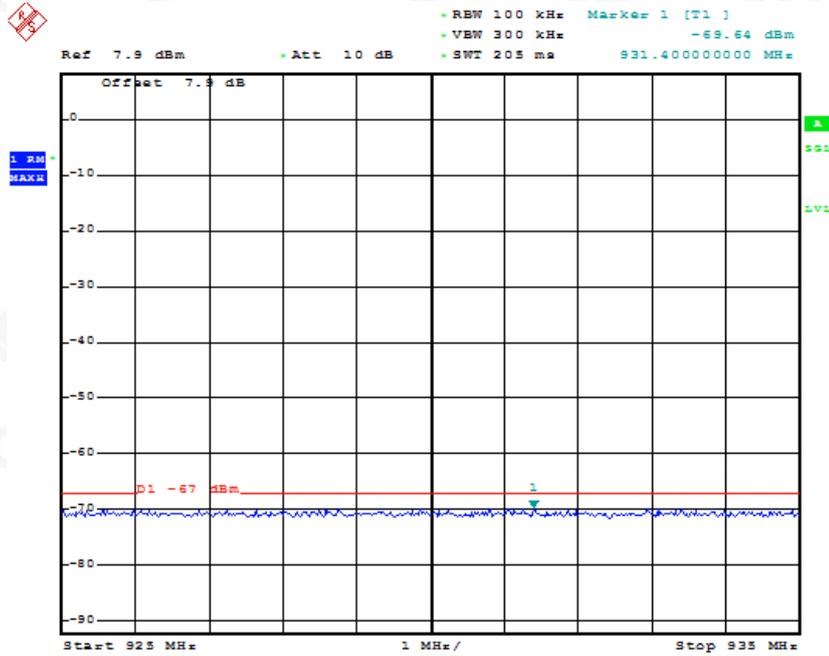
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

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925MHZ~935MHZ



AAA

Date: 16.OCT.2019 17:44:25



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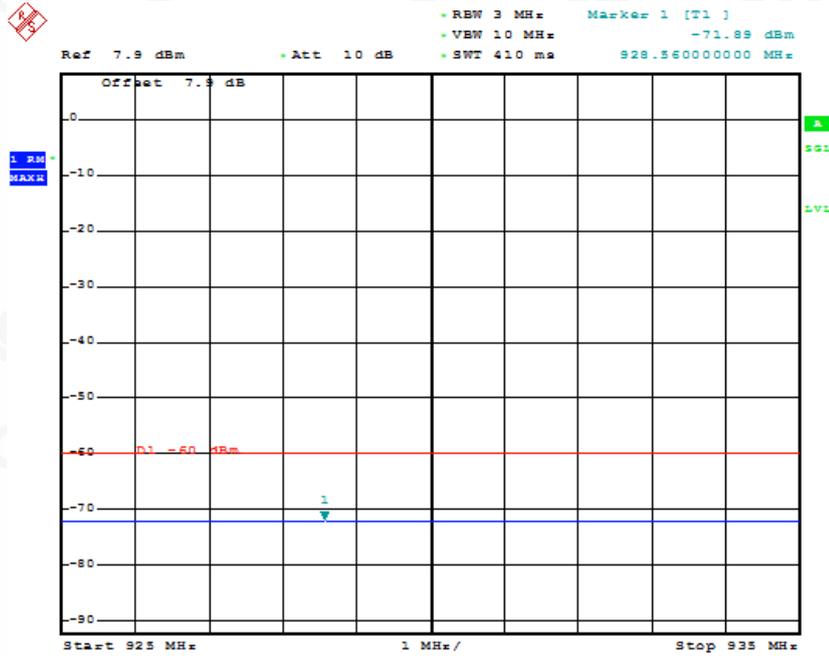
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Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

925MHZ~935MHZ



AAA

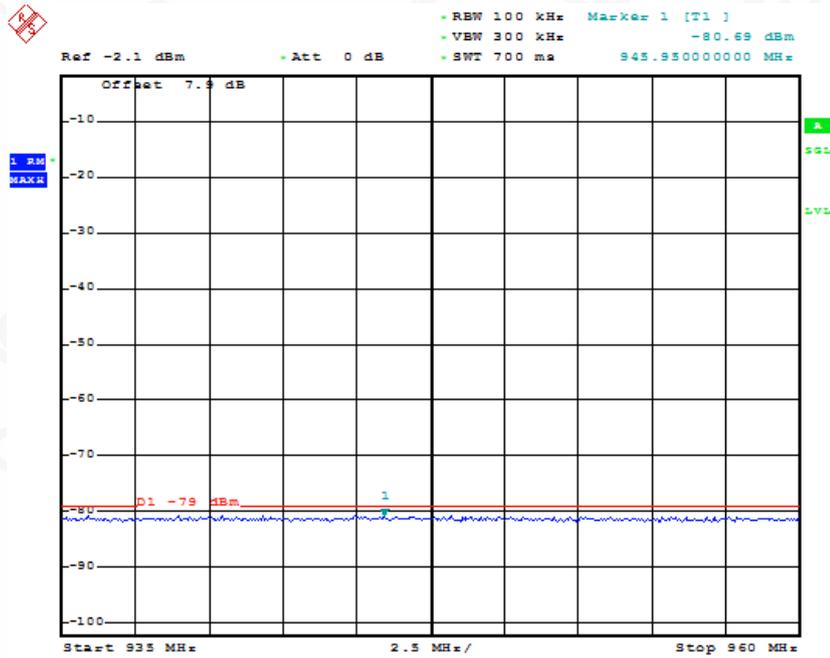
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Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118

935MHZ~960MHZ



AAA

Date: 16.OCT.2019 17:45:55



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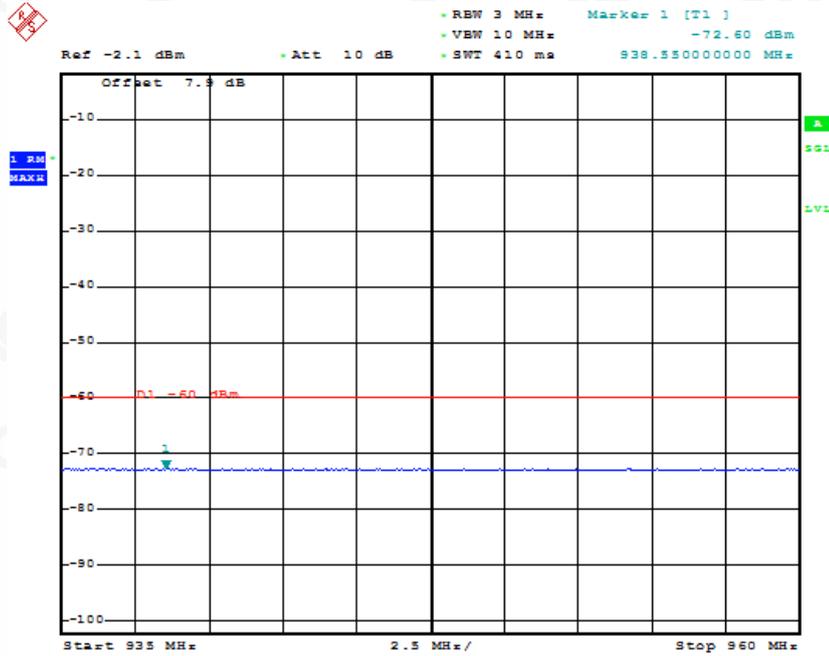
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

935MHZ~960MHZ



AAA

Date: 16.OCT.2019 17:47:01



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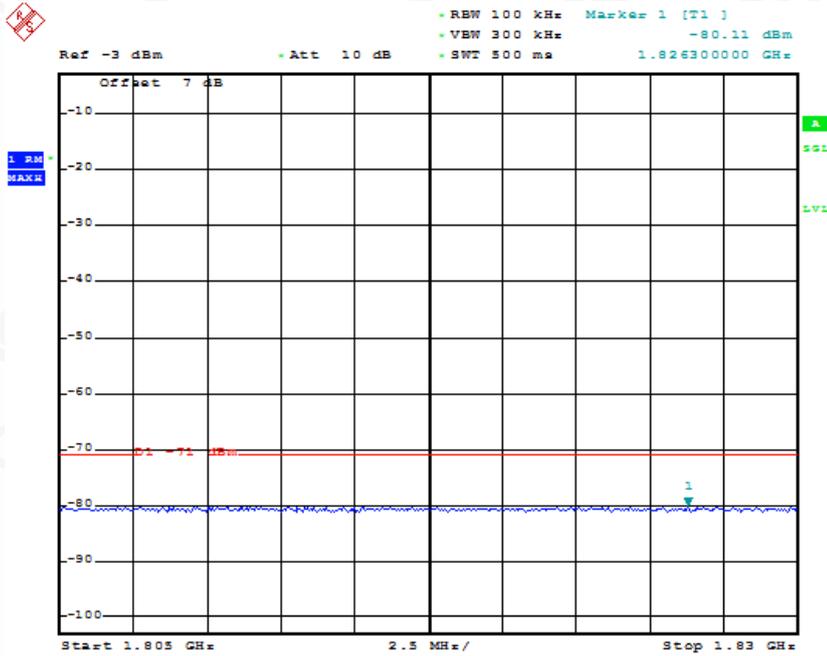
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

1805MHZ~1830MHZ



AAA

Date: 16.OCT.2019 17:47:14



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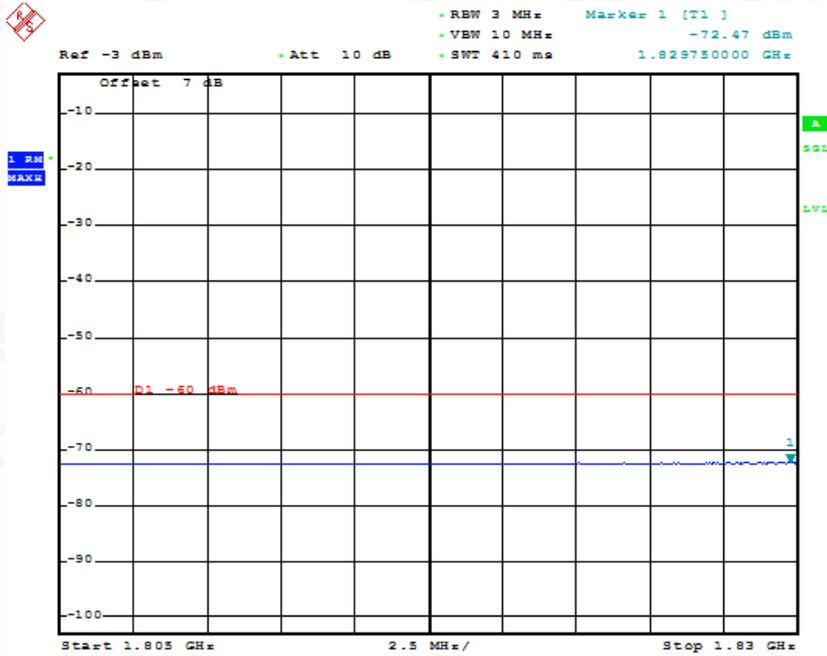
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

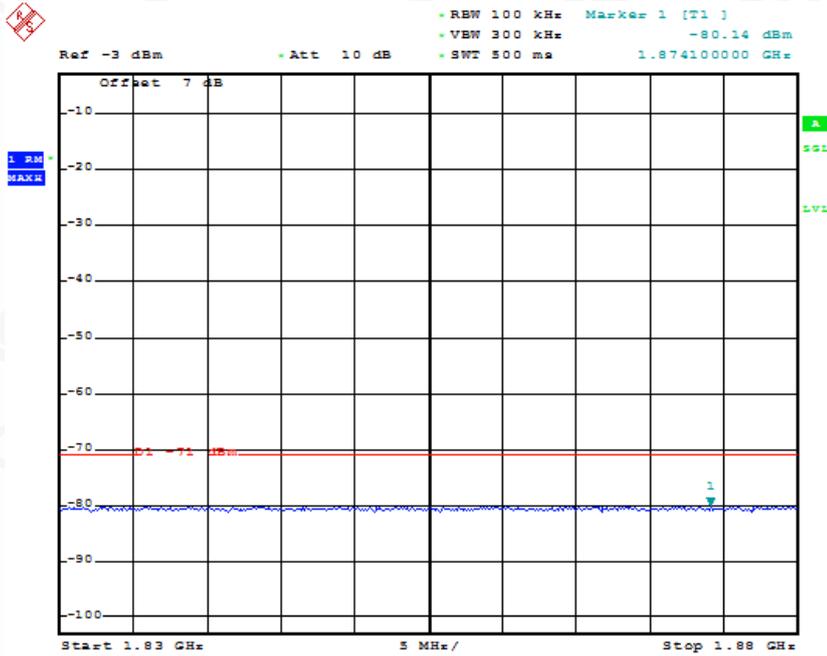
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AAA

Date: 16.OCT.2019 17:48:20

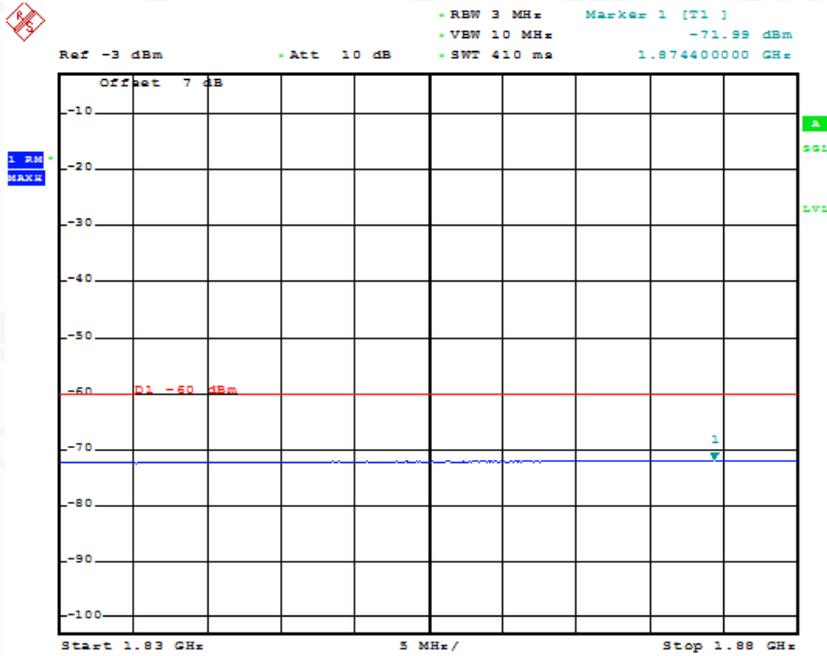
1830MHZ~1880MHZ



AAA

Date: 16.OCT.2019 17:48:33

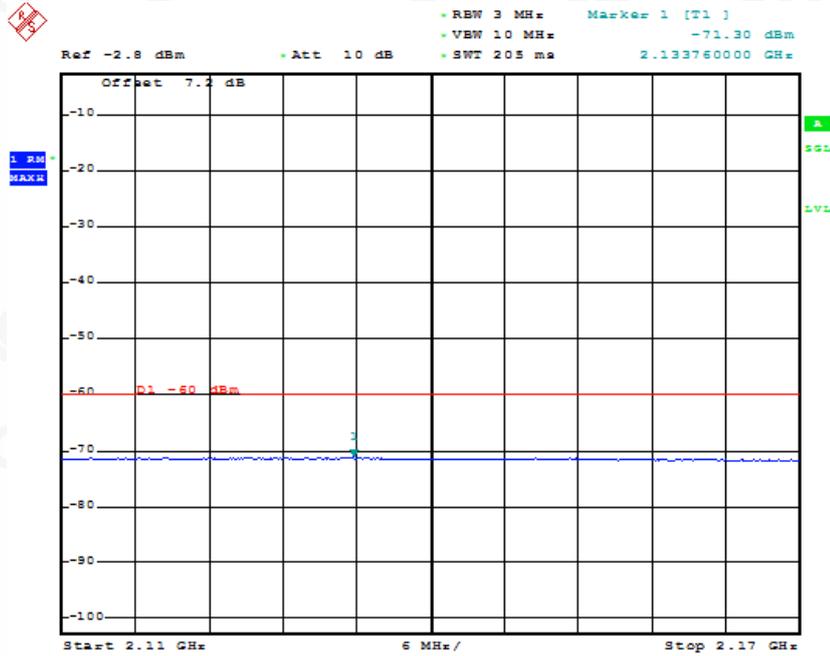
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AAA

Date: 16.OCT.2019 17:49:39

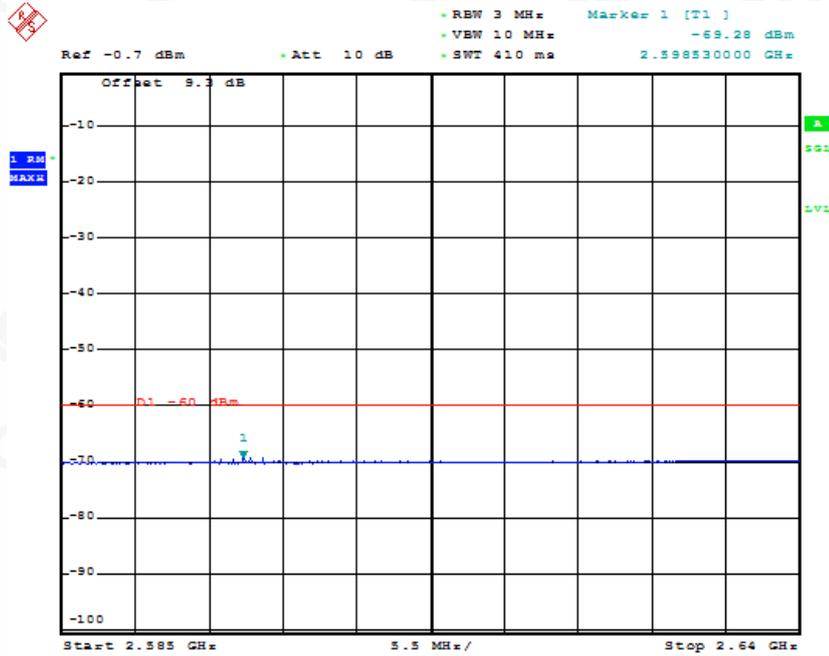
2110MHZ~2170MHZ



AAA

Date: 16.OCT.2019 17:50:24

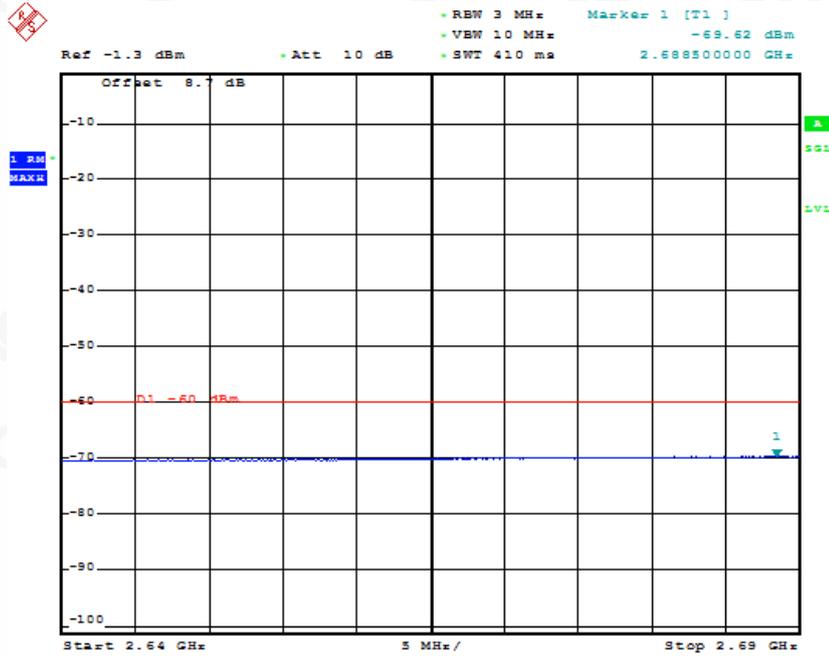
2585MHZ~2640MHZ



AAA

Date: 16.OCT.2019 17:50:58

2640MHZ~2690MHZ



AAA

Date: 16.OCT.2019 17:51:32



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

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

| Operating Band | Test Conditions | Test Channel | Sub-test | Measurement Data(dBm) | Limit(dBm)      | Result |                 |      |
|----------------|-----------------|--------------|----------|-----------------------|-----------------|--------|-----------------|------|
| Band I         | TNVN            | LCH          | 1        | 22.47                 | 24(+1.7/-3.7)   | Pass   |                 |      |
|                |                 |              | 2        | 21.57                 | 24(+1.7/-3.7)   | Pass   |                 |      |
|                |                 |              | 3        | 21.51                 | 23.5(+2.2/-3.7) | Pass   |                 |      |
|                |                 |              | 4        | 21.46                 | 23.5(+2.2/-3.7) | Pass   |                 |      |
|                |                 | MCH          | 1        | 22.48                 | 24(+1.7/-3.7)   | Pass   |                 |      |
|                |                 |              | 2        | 21.58                 | 24(+1.7/-3.7)   | Pass   |                 |      |
|                |                 |              | 3        | 21.51                 | 23.5(+2.2/-3.7) | Pass   |                 |      |
|                |                 |              | 4        | 21.47                 | 23.5(+2.2/-3.7) | Pass   |                 |      |
|                |                 | HCH          | 1        | 22.56                 | 24(+1.7/-3.7)   | Pass   |                 |      |
|                |                 |              | 2        | 21.65                 | 24(+1.7/-3.7)   | Pass   |                 |      |
|                |                 |              | 3        | 21.59                 | 23.5(+2.2/-3.7) | Pass   |                 |      |
|                |                 |              | 4        | 21.52                 | 23.5(+2.2/-3.7) | Pass   |                 |      |
|                |                 | Band VIII    | TNVN     | LCH                   | 1               | 22.50  | 24(+1.7/-3.7)   | Pass |
|                |                 |              |          |                       | 2               | 21.71  | 24(+1.7/-3.7)   | Pass |
|                |                 |              |          |                       | 3               | 21.74  | 23.5(+2.2/-3.7) | Pass |
|                |                 |              |          |                       | 4               | 21.63  | 23.5(+2.2/-3.7) | Pass |
| MCH            | 1               |              |          | 22.49                 | 24(+1.7/-3.7)   | Pass   |                 |      |
|                | 2               |              |          | 21.75                 | 24(+1.7/-3.7)   | Pass   |                 |      |
|                | 3               |              |          | 21.70                 | 23.5(+2.2/-3.7) | Pass   |                 |      |
|                | 4               |              |          | 21.65                 | 23.5(+2.2/-3.7) | Pass   |                 |      |
| HCH            | 1               |              |          | 22.70                 | 24(+1.7/-3.7)   | Pass   |                 |      |
|                | 2               |              |          | 21.94                 | 24(+1.7/-3.7)   | Pass   |                 |      |
|                | 3               |              |          | 21.92                 | 23.5(+2.2/-3.7) | Pass   |                 |      |
|                | 4               |              |          | 21.89                 | 23.5(+2.2/-3.7) | Pass   |                 |      |



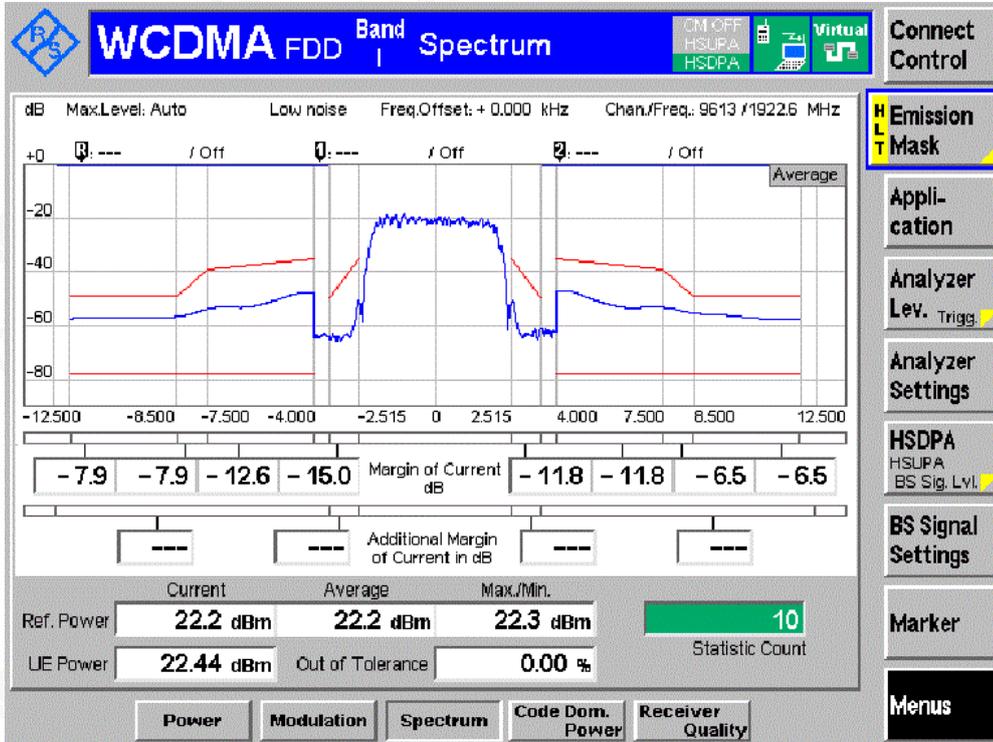
**Appendix G. Transmitter spectrum emission mask with HS-DPCCH**

| 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 |

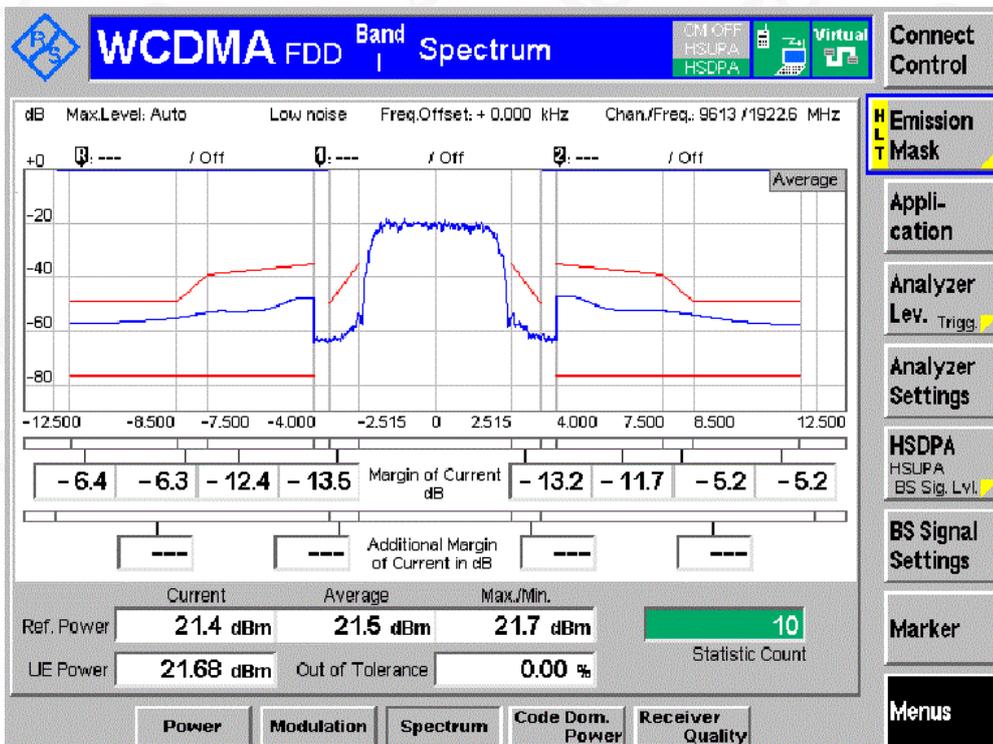
| Operating Band | Test Conditions | Sub-test | Test Channel |      |      |
|----------------|-----------------|----------|--------------|------|------|
|                |                 |          | LCH          | MCH  | HCH  |
| Band VIII      | TNVN            | 1        | PASS         | PASS |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



**BAND I**  
**Channel LCH**  
Sub-test 1



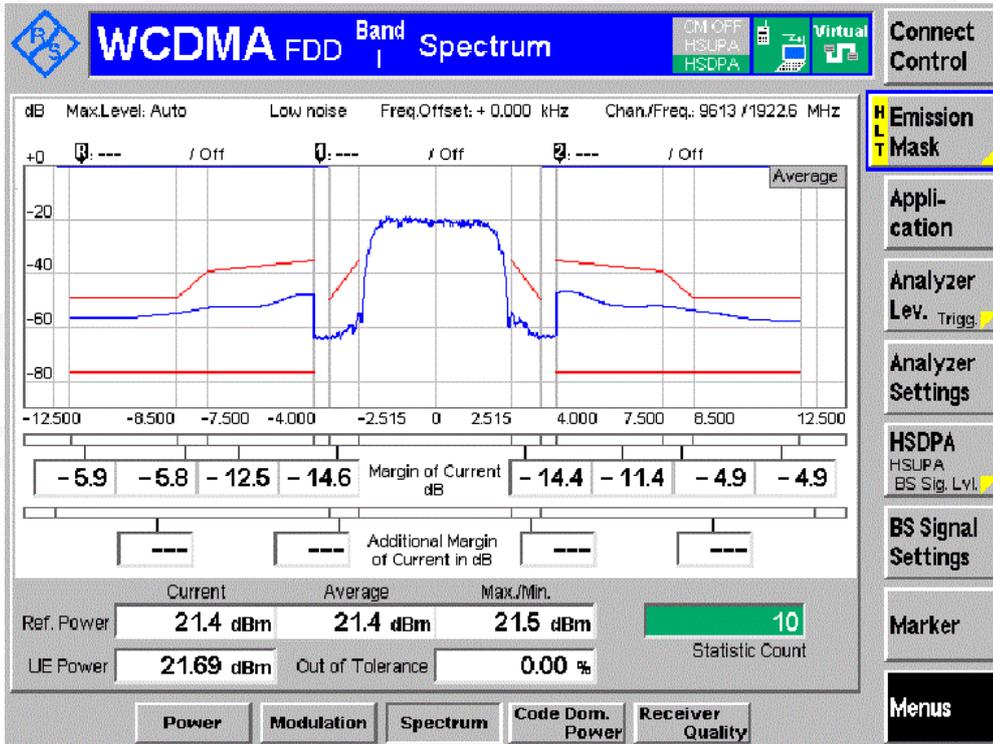
Sub-test 2



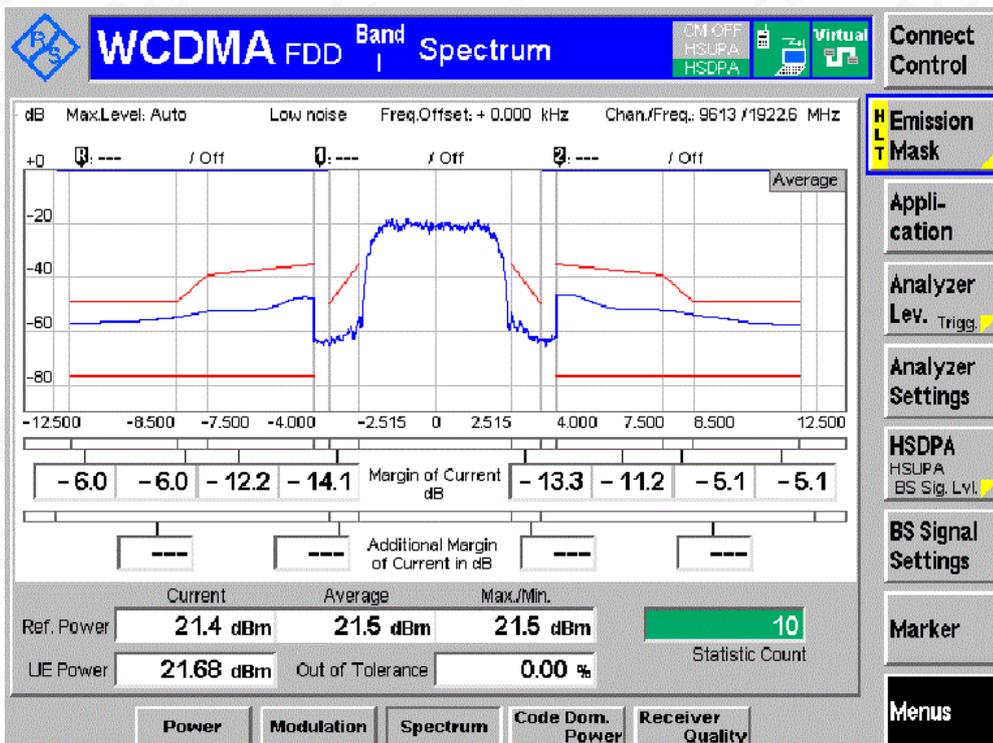
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Sub-test 3



Sub-test 4

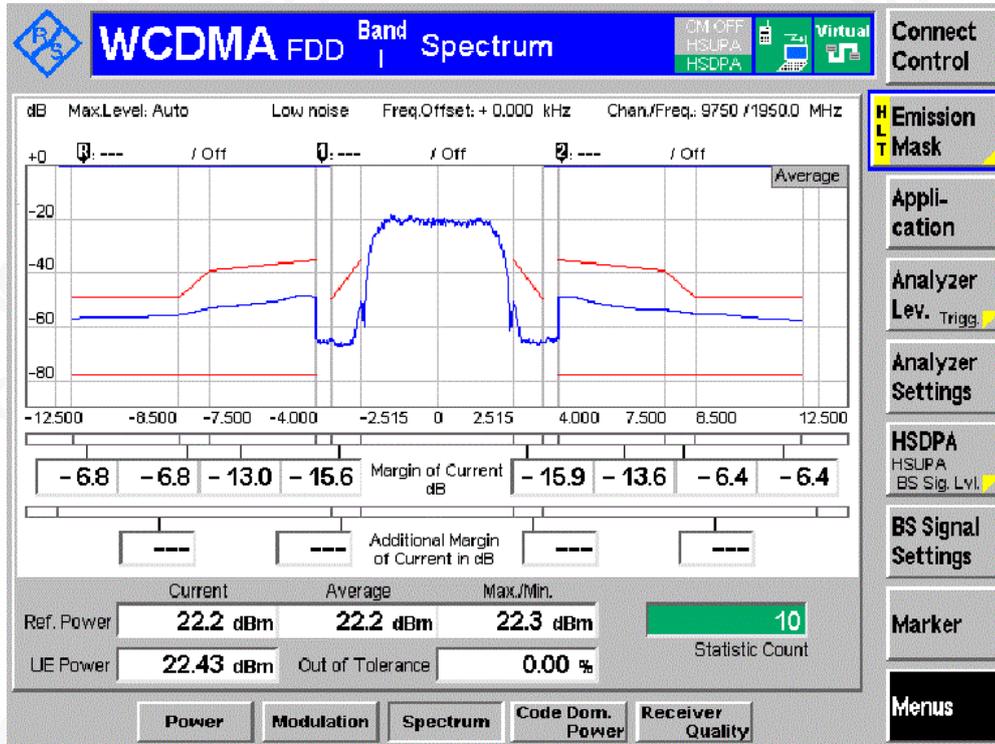


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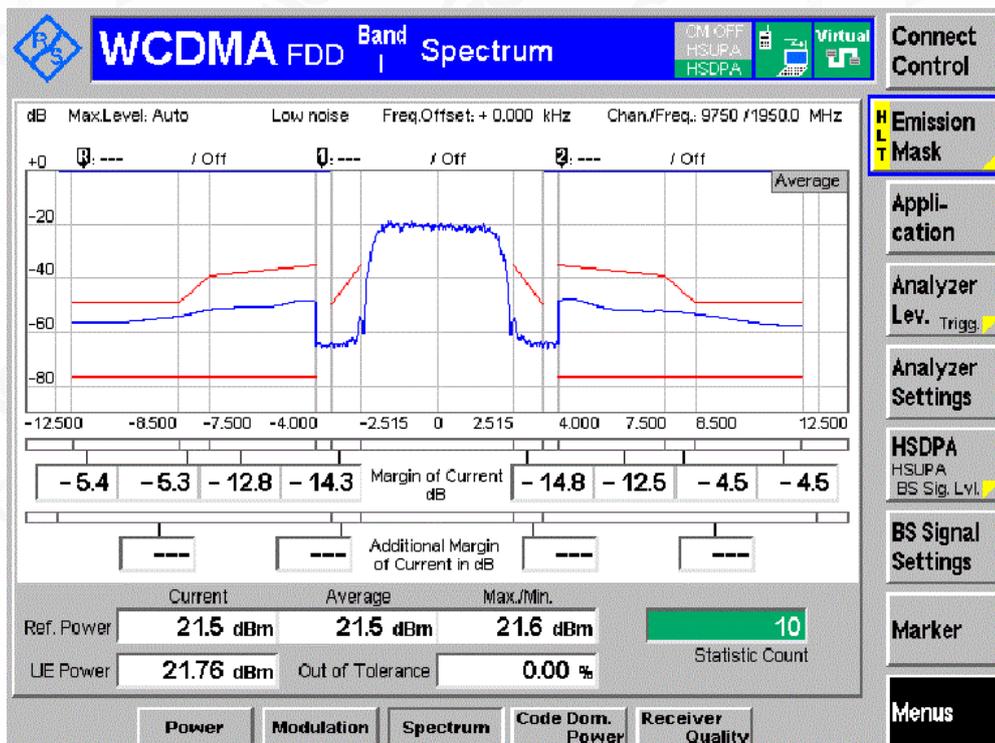
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**Channel MCH**

Sub-test 1



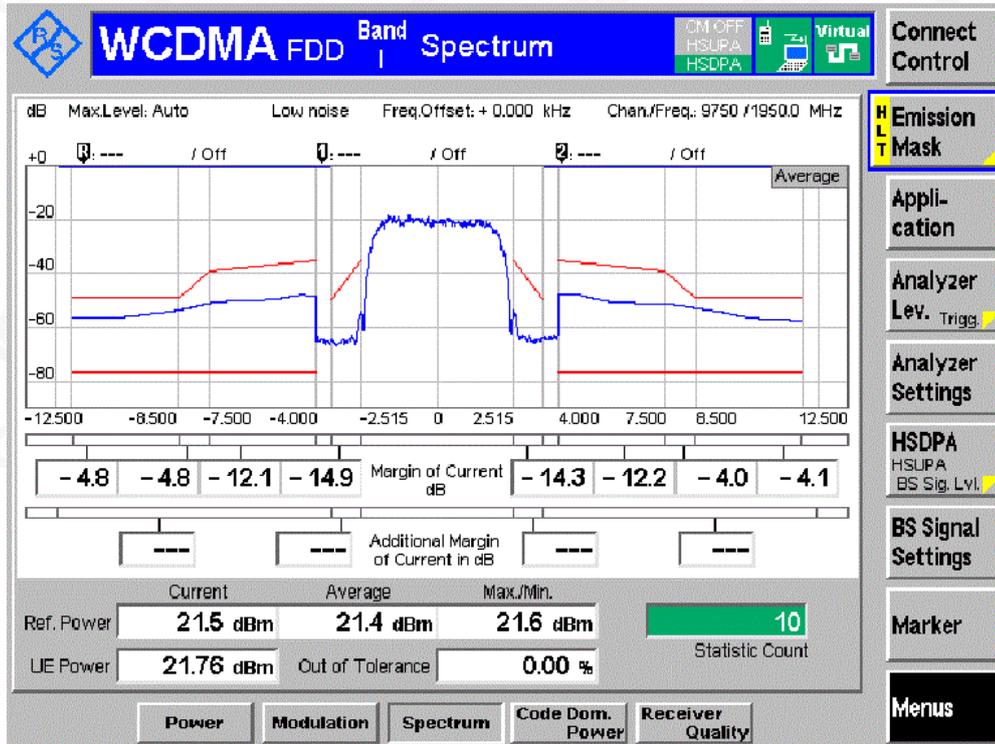
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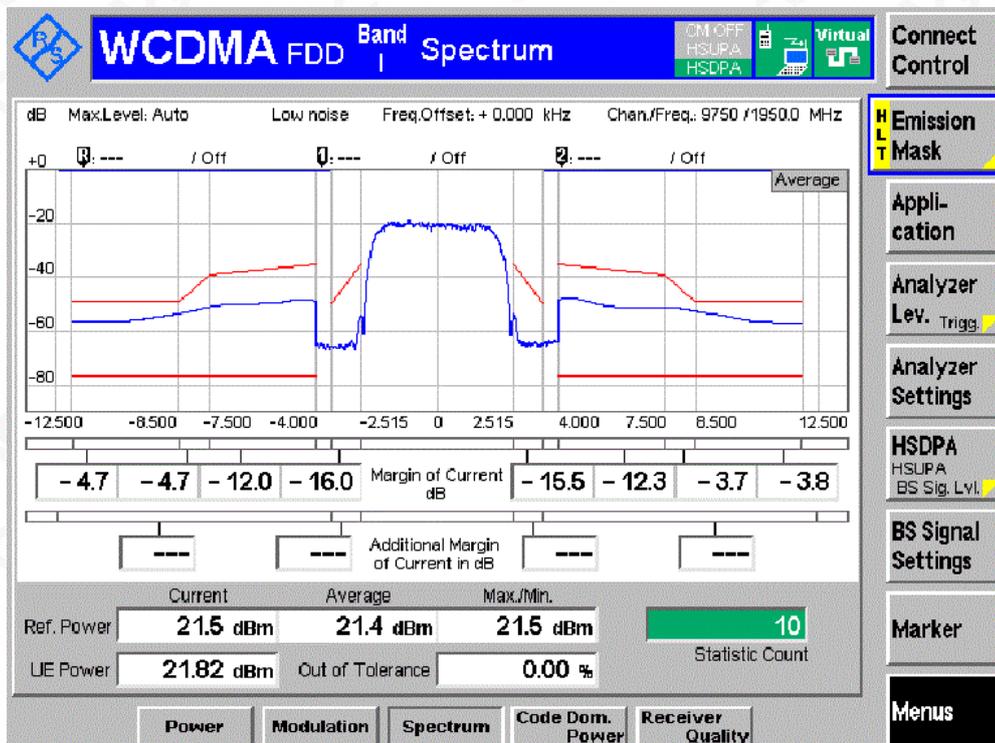
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Sub-test 3



Sub-test 4

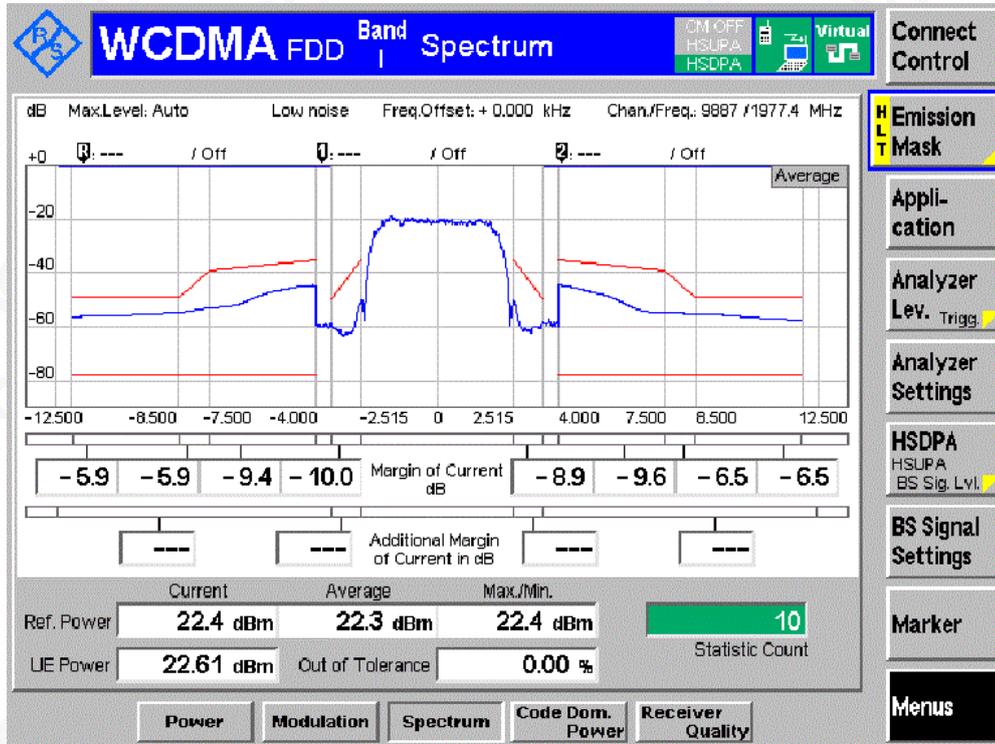


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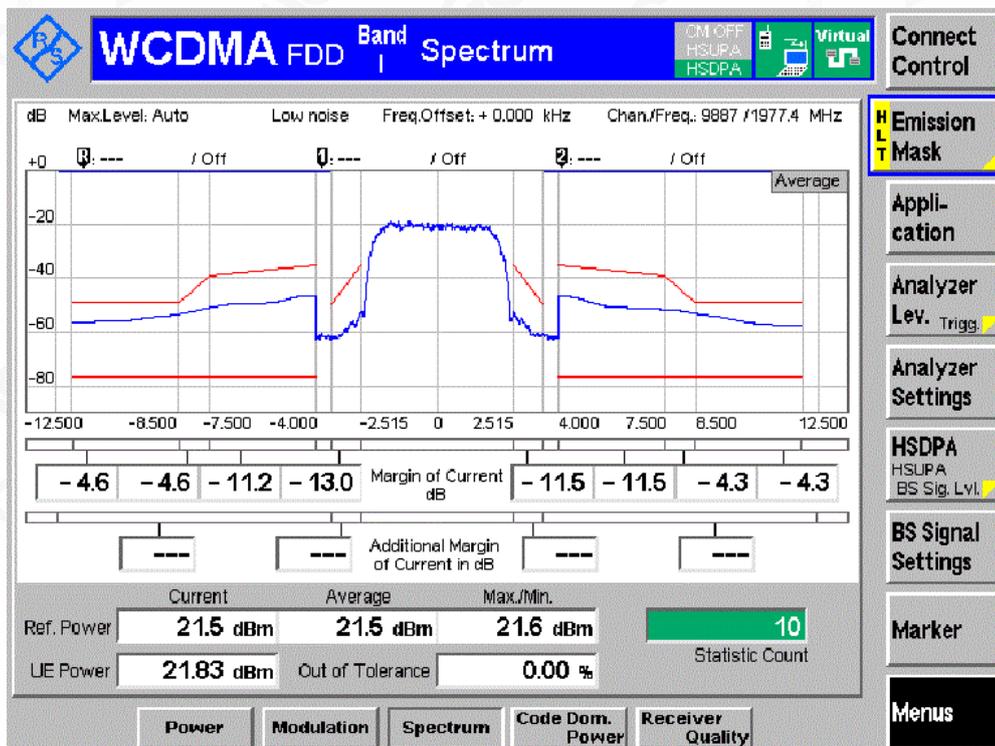
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### Channel HCH

#### Sub-test 1



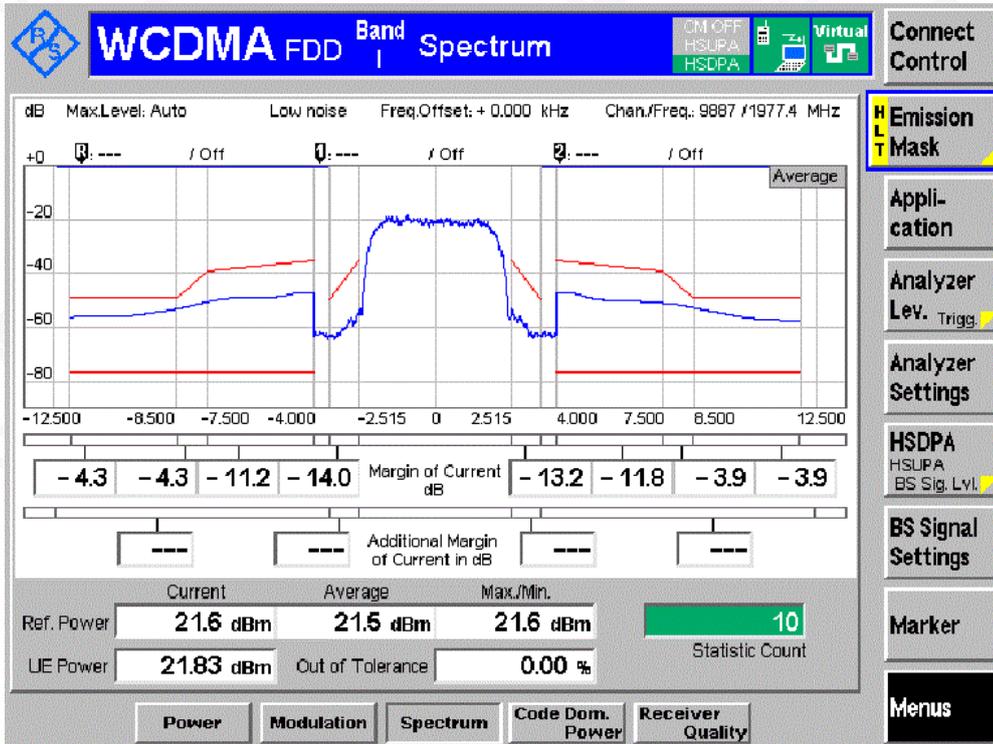
#### Sub-test 2



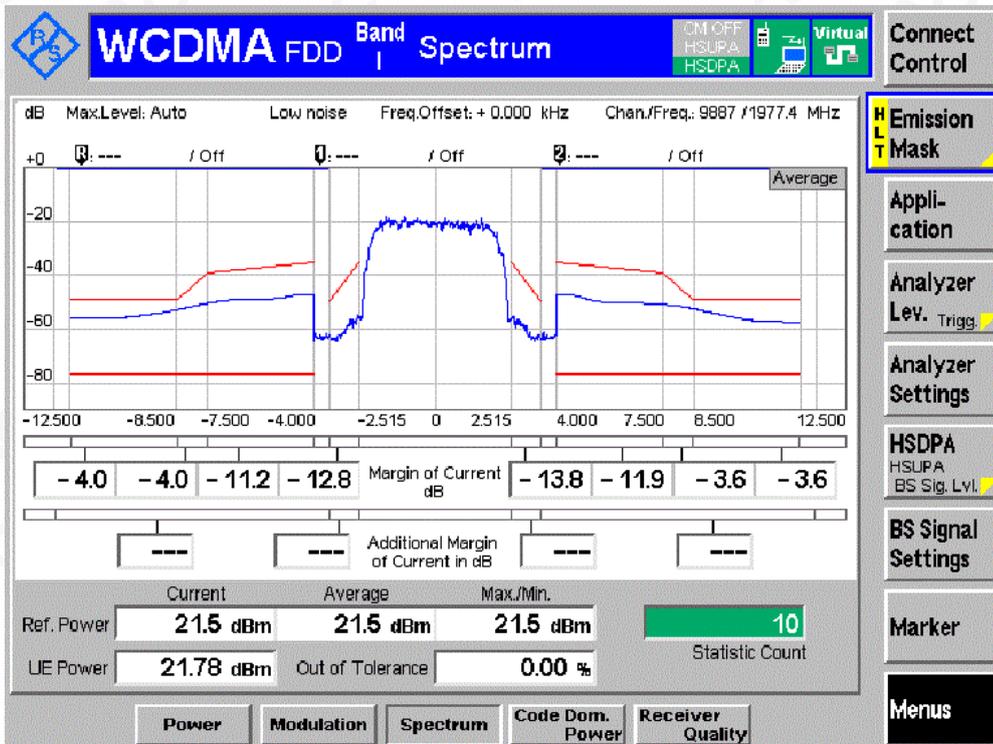
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Sub-test 3



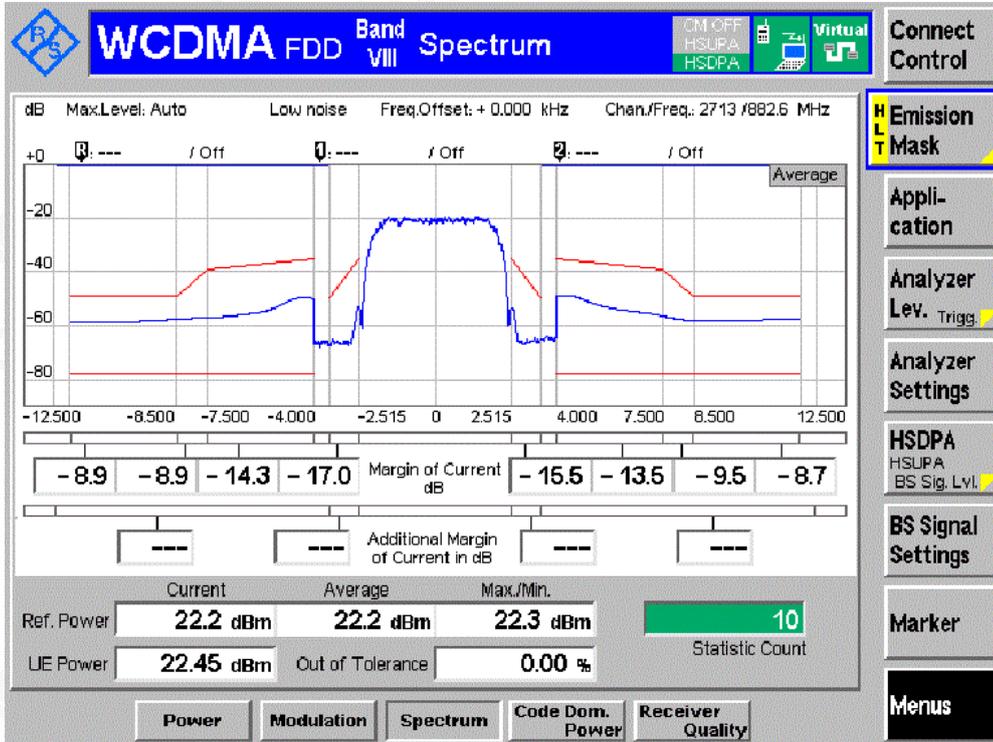
Sub-test 4



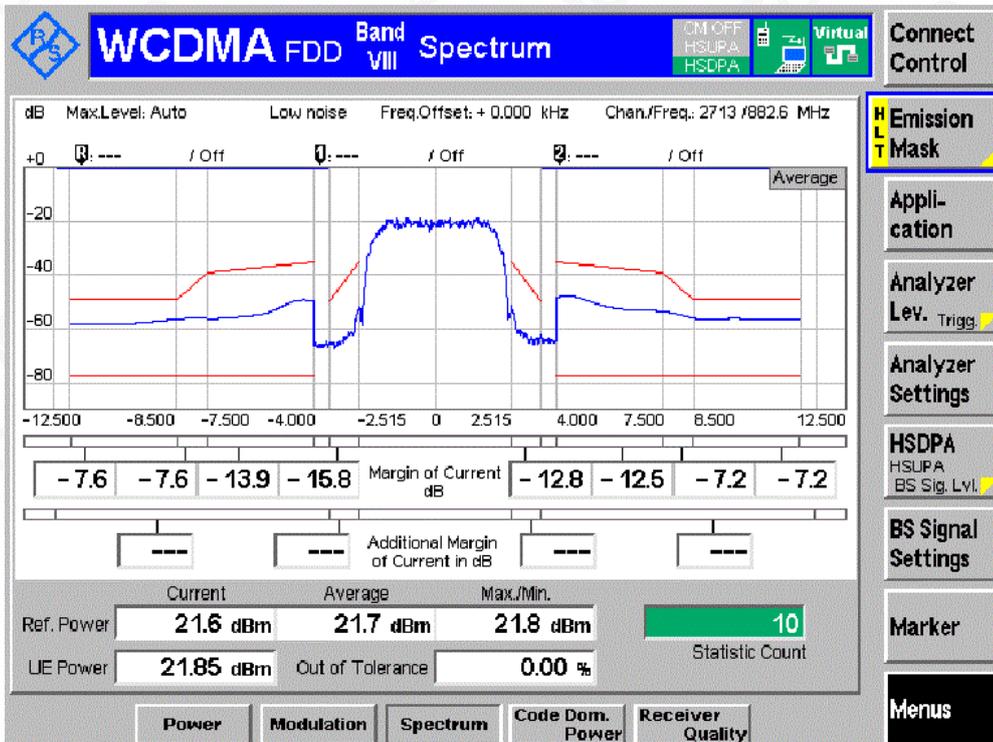
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**BAND VIII**  
**Channel LCH**  
Sub-test 1



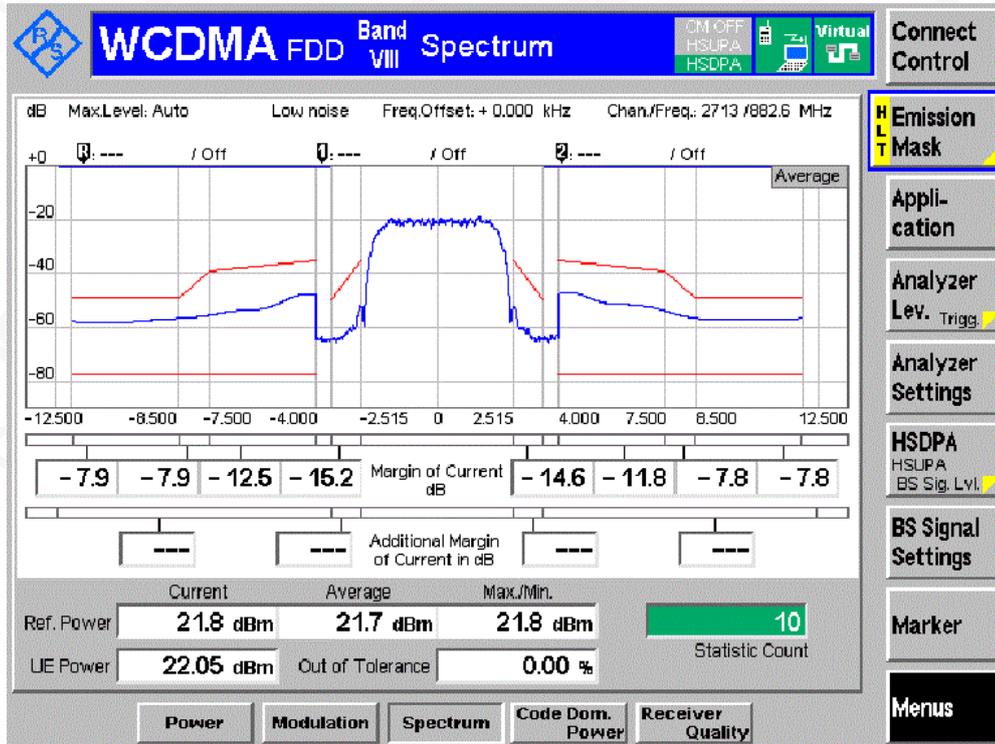
Sub-test 2



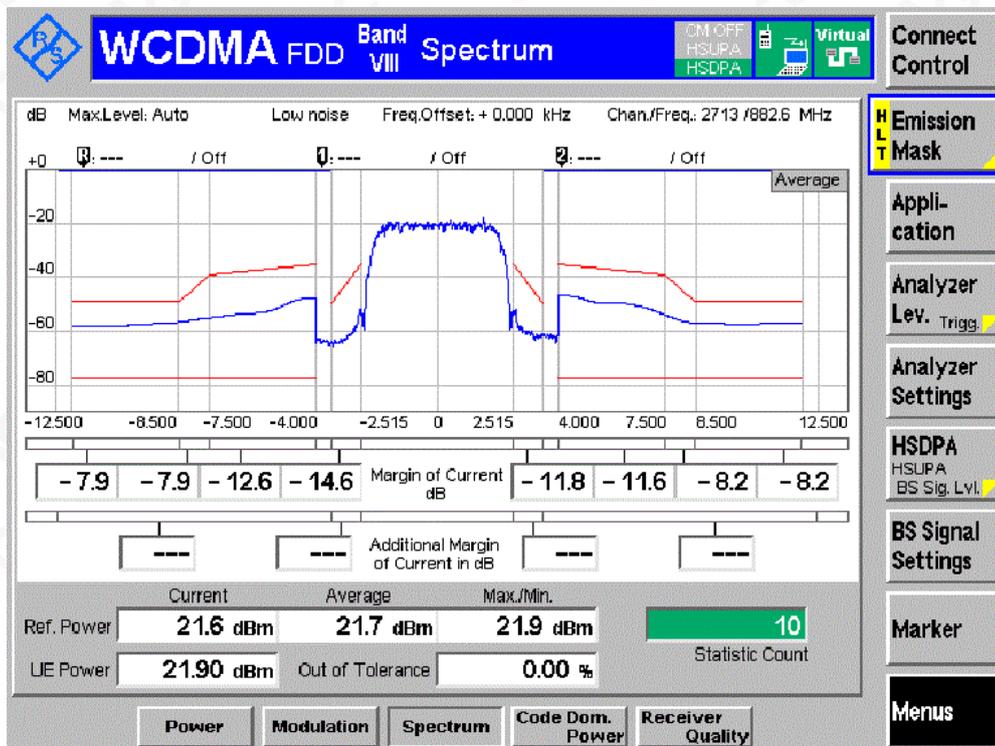
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Sub-test 3



Sub-test 4

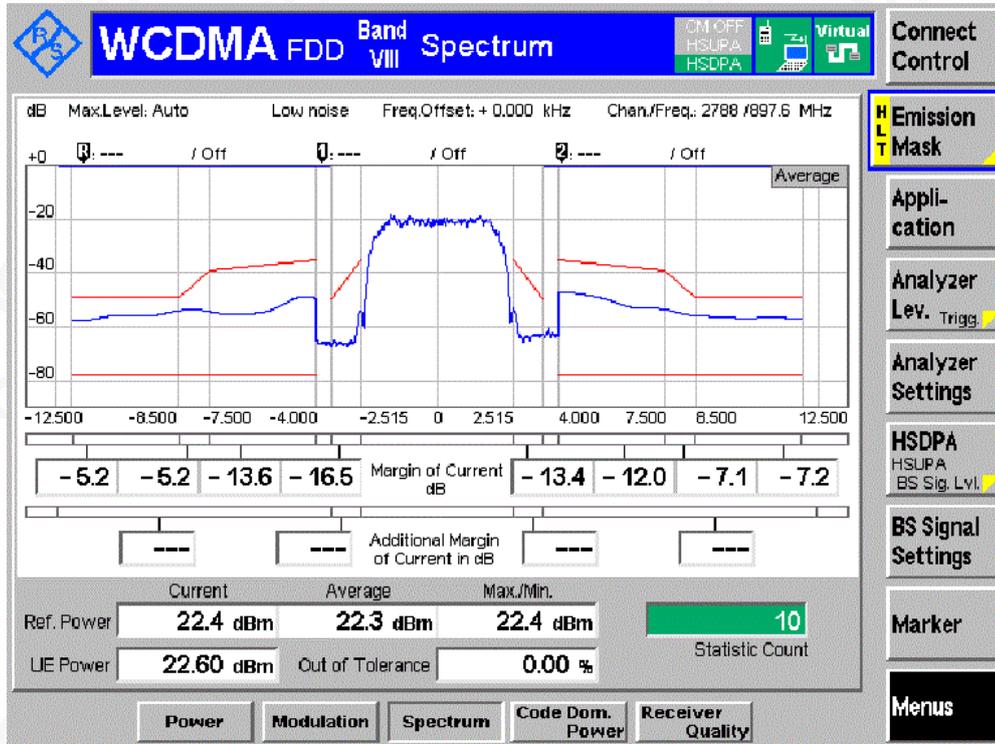


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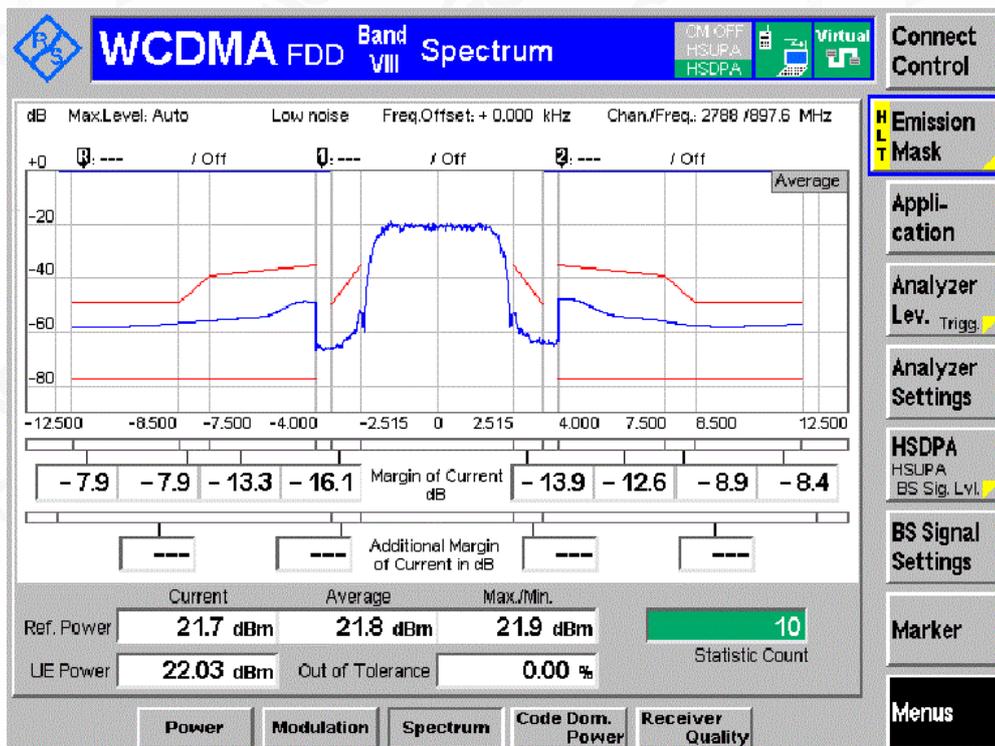
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### Channel MCH

#### Sub-test 1



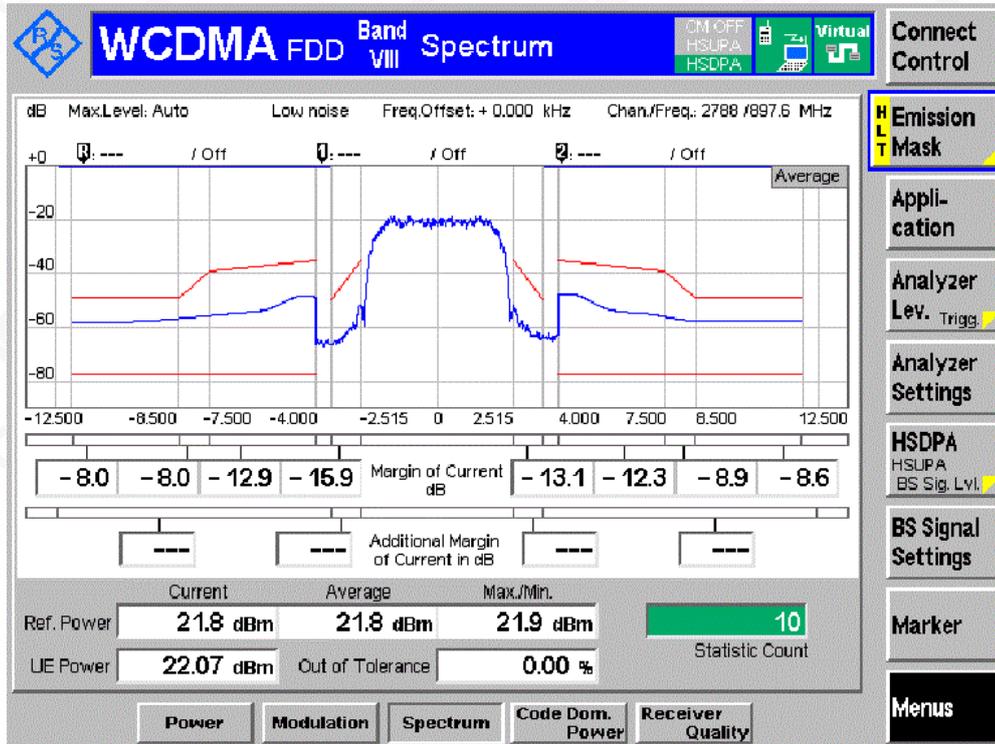
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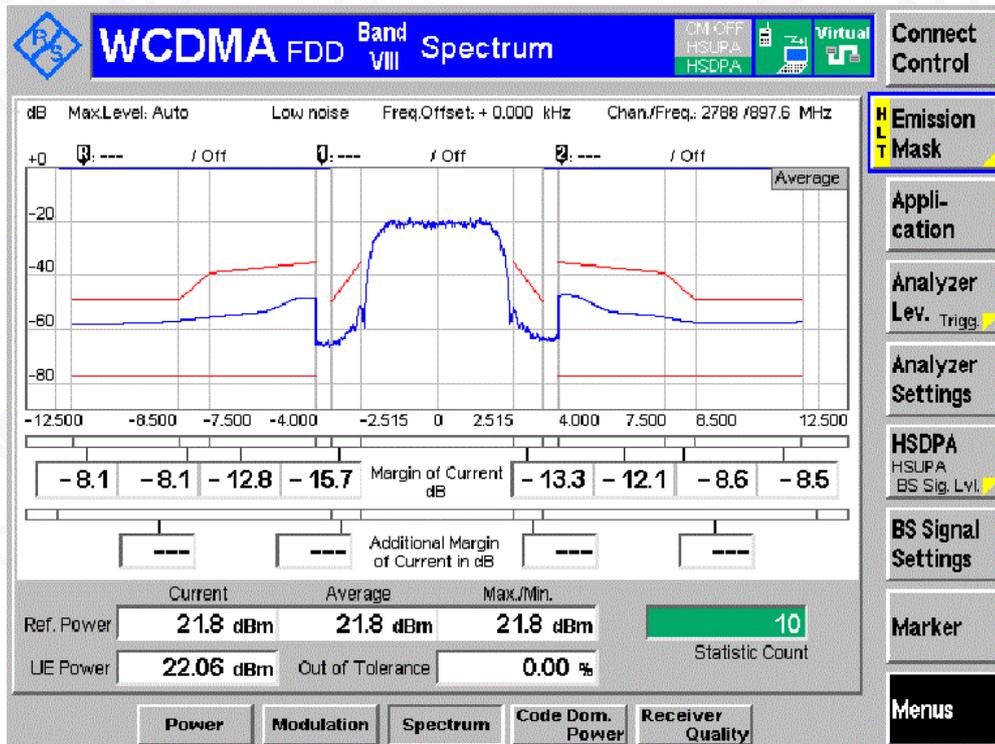
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Sub-test 3



Sub-test 4

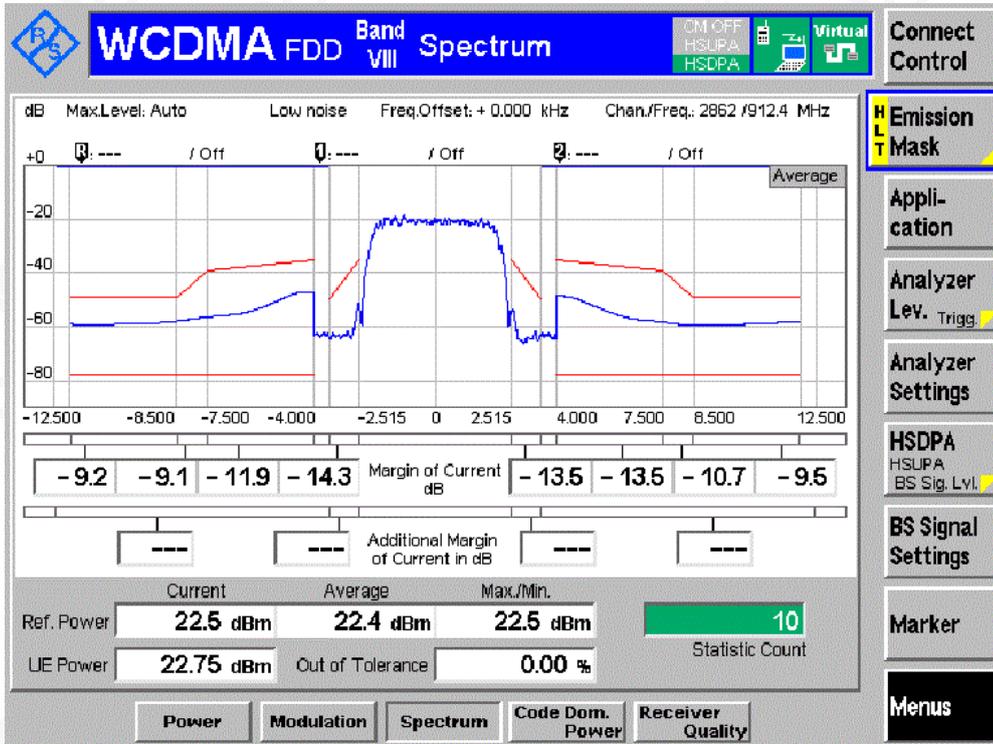


Attestation of Global Compliance

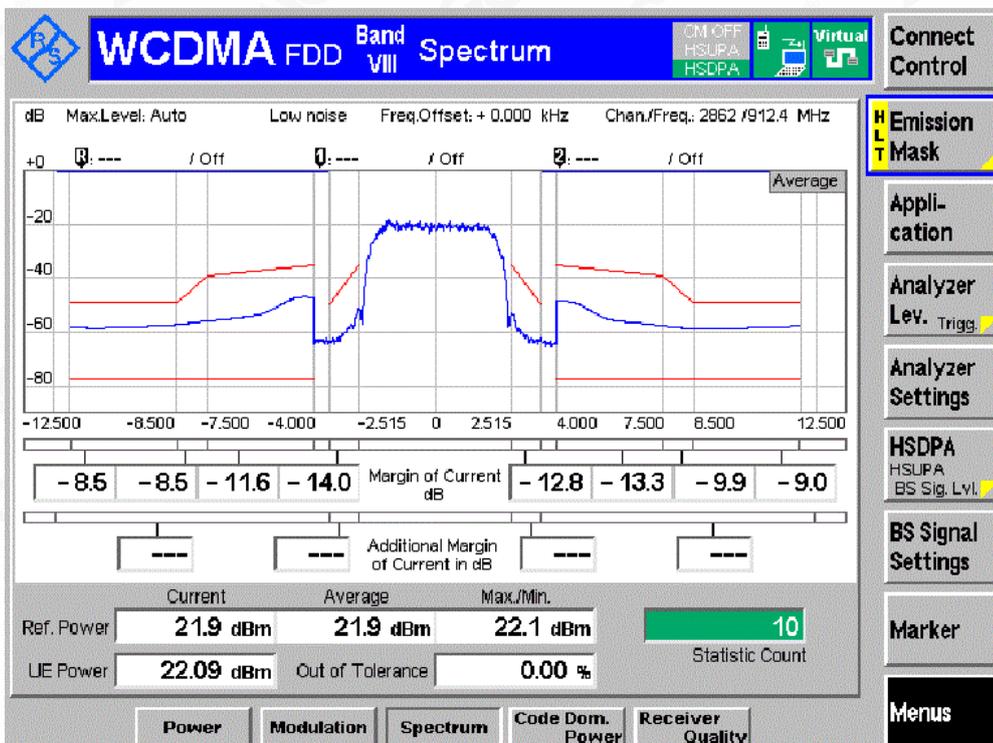
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**Channel HCH**

**Sub-test 1**



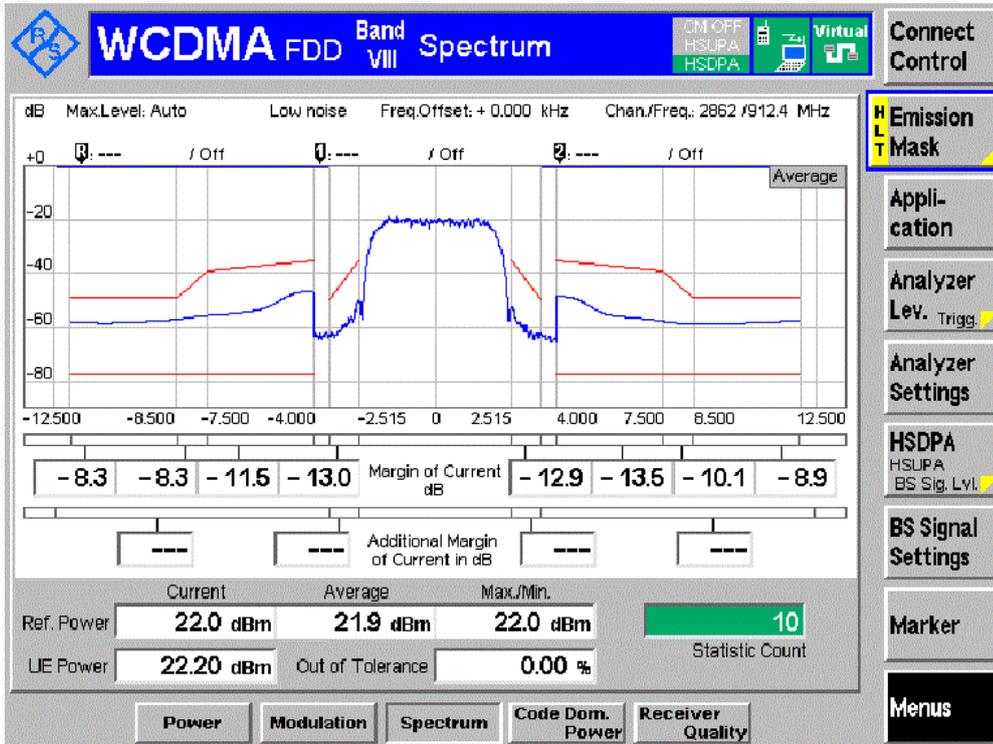
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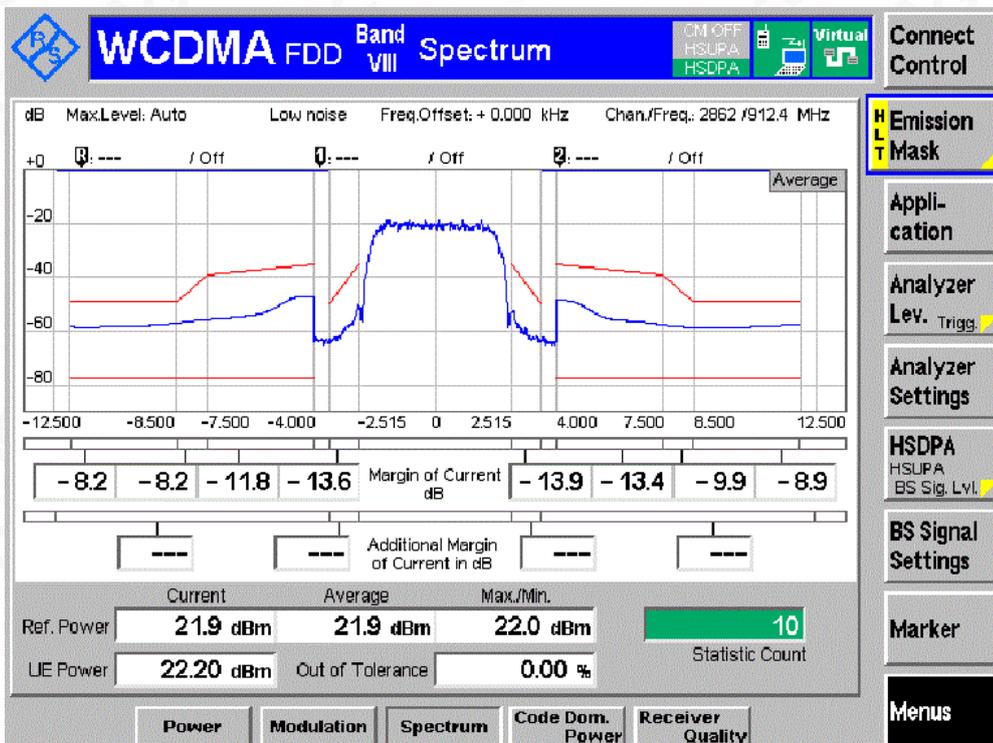
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Sub-test 3



Sub-test 4



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

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

| Operating Band | Test Conditions | Test Channel | Sub-test | UE Channel | Measurement Data(dBm) | Limit (dBm) | Result |
|----------------|-----------------|--------------|----------|------------|-----------------------|-------------|--------|
| Band I         | TNVN            | LCH          | 1        | +5MHz      | -43.92                | -32.2       | Pass   |
|                |                 |              |          | -5 MHz     | -44.47                | -32.2       | Pass   |
|                |                 |              |          | -10MHz     | -51.76                | -42.2       | Pass   |
|                |                 |              |          | +10MHz     | -51.16                | -42.2       | Pass   |
|                |                 |              | 2        | +5MHz      | -43.32                | -32.2       | Pass   |
|                |                 |              |          | -5 MHz     | -43.99                | -32.2       | Pass   |
|                |                 |              |          | -10MHz     | -51.01                | -42.2       | Pass   |
|                |                 |              |          | +10MHz     | -50.52                | -42.2       | Pass   |
|                |                 |              | 3        | +5MHz      | -43.27                | -32.2       | Pass   |
|                |                 |              |          | -5 MHz     | -44.18                | -32.2       | Pass   |
|                |                 |              |          | -10MHz     | -50.59                | -42.2       | Pass   |
|                |                 |              |          | +10MHz     | -50.37                | -42.2       | Pass   |
|                |                 | 4            | +5MHz    | -43.17     | -32.2                 | Pass        |        |
|                |                 |              | -5 MHz   | -44.09     | -32.2                 | Pass        |        |
|                |                 |              | -10MHz   | -50.51     | -42.2                 | Pass        |        |
|                |                 |              | +10MHz   | -50.18     | -42.2                 | Pass        |        |
|                |                 | MCH          | 1        | +5MHz      | -45.24                | -32.2       | Pass   |
|                |                 |              |          | -5 MHz     | -44.74                | -32.2       | Pass   |
|                |                 |              |          | -10MHz     | -50.84                | -42.2       | Pass   |
|                |                 |              |          | +10MHz     | -50.62                | -42.2       | Pass   |
| 2              | +5MHz           |              | -44.35   | -32.2      | Pass                  |             |        |
|                | -5 MHz          |              | -44.42   | -32.2      | Pass                  |             |        |
|                | -10MHz          |              | -50.26   | -42.2      | Pass                  |             |        |
|                | +10MHz          |              | -50.14   | -42.2      | Pass                  |             |        |



|   |        |        |       |        |        |       |      |
|---|--------|--------|-------|--------|--------|-------|------|
|   |        | HCH    | 3     | +5MHz  | -44.25 | -32.2 | Pass |
|   |        |        |       | -5 MHz | -44.20 | -32.2 | Pass |
|   |        |        |       | -10MHz | -50.01 | -42.2 | Pass |
|   |        |        |       | +10MHz | -49.90 | -42.2 | Pass |
|   |        |        | 4     | +5MHz  | -44.01 | -32.2 | Pass |
|   |        |        |       | -5 MHz | -44.14 | -32.2 | Pass |
|   |        |        |       | -10MHz | -49.09 | -42.2 | Pass |
|   |        |        |       | +10MHz | -49.57 | -42.2 | Pass |
|   |        | HCH    | 1     | +5MHz  | -41.44 | -32.2 | Pass |
|   |        |        |       | -5 MHz | -41.20 | -32.2 | Pass |
|   |        |        |       | -10MHz | -50.12 | -42.2 | Pass |
|   |        |        |       | +10MHz | -50.75 | -42.2 | Pass |
|   |        |        | 2     | +5MHz  | -42.85 | -32.2 | Pass |
|   |        |        |       | -5 MHz | -42.46 | -32.2 | Pass |
|   |        |        |       | -10MHz | -49.63 | -42.2 | Pass |
|   |        |        |       | +10MHz | -49.98 | -42.2 | Pass |
|   |        |        | 3     | +5MHz  | -43.01 | -32.2 | Pass |
|   |        |        |       | -5 MHz | -42.61 | -32.2 | Pass |
|   |        |        |       | -10MHz | -49.42 | -42.2 | Pass |
|   |        |        |       | +10MHz | -49.83 | -42.2 | Pass |
| 4 | +5MHz  | -43.06 | -32.2 | Pass   |        |       |      |
|   | -5 MHz | -42.74 | -32.2 | Pass   |        |       |      |
|   | -10MHz | -49.22 | -42.2 | Pass   |        |       |      |
|   | +10MHz | -49.72 | -42.2 | Pass   |        |       |      |

| Operating Band | Test Conditions | Test Channel | Sub-test | UE Channel | Measurement Data(dBm) | Limit (dBm) | Result |
|----------------|-----------------|--------------|----------|------------|-----------------------|-------------|--------|
| Band VIII      | TNVN            | LCH          | 1        | +5MHz      | -45.65                | -32.2       | Pass   |



|        |        |        |       |        |        |        |        |       |      |
|--------|--------|--------|-------|--------|--------|--------|--------|-------|------|
|        |        |        |       | -5 MHz | -46.68 | -32.2  | Pass   |       |      |
|        |        |        |       | -10MHz | -53.03 | -42.2  | Pass   |       |      |
|        |        |        |       | +10MHz | -52.82 | -42.2  | Pass   |       |      |
|        |        |        |       | 2      | +5MHz  | -45.41 | -32.2  | Pass  |      |
|        |        |        |       |        | -5 MHz | -45.90 | -32.2  | Pass  |      |
|        |        |        |       |        | -10MHz | -52.55 | -42.2  | Pass  |      |
|        |        |        |       |        | +10MHz | -52.12 | -42.2  | Pass  |      |
|        |        |        |       | 3      | +5MHz  | -43.52 | -32.2  | Pass  |      |
|        |        |        |       |        | -5 MHz | -45.87 | -32.2  | Pass  |      |
|        |        |        |       |        | -10MHz | -52.54 | -42.2  | Pass  |      |
|        |        |        |       |        | +10MHz | -52.04 | -42.2  | Pass  |      |
|        |        |        |       | 4      | +5MHz  | -44.55 | -32.2  | Pass  |      |
|        |        |        |       |        | -5 MHz | -44.52 | -32.2  | Pass  |      |
|        |        |        |       |        | -10MHz | -52.59 | -42.2  | Pass  |      |
|        |        |        |       |        | +10MHz | -51.94 | -42.2  | Pass  |      |
|        |        |        |       | MCH    | 1      | +5MHz  | -44.71 | -32.2 | Pass |
|        |        |        |       |        |        | -5 MHz | -46.24 | -32.2 | Pass |
|        |        |        |       |        |        | -10MHz | -52.91 | -42.2 | Pass |
|        |        |        |       |        |        | +10MHz | -52.93 | -42.2 | Pass |
|        |        |        |       |        | 2      | +5MHz  | -43.35 | -32.2 | Pass |
| -5 MHz | -45.81 | -32.2  | Pass  |        |        |        |        |       |      |
| -10MHz | -50.20 | -42.2  | Pass  |        |        |        |        |       |      |
| +10MHz | -51.91 | -42.2  | Pass  |        |        |        |        |       |      |
| 3      | +5MHz  | -44.51 | -32.2 |        | Pass   |        |        |       |      |
|        | -5 MHz | -45.42 | -32.2 |        | Pass   |        |        |       |      |
|        | -10MHz | -52.17 | -42.2 |        | Pass   |        |        |       |      |
|        | +10MHz | -52.32 | -42.2 |        | Pass   |        |        |       |      |
| 4      | +5MHz  | -44.50 | -32.2 |        | Pass   |        |        |       |      |



|        |        |       |   |        |        |       |      |
|--------|--------|-------|---|--------|--------|-------|------|
|        |        | HCH   |   | -5 MHz | -45.37 | -32.2 | Pass |
|        |        |       |   | -10MHz | -52.17 | -42.2 | Pass |
|        |        |       |   | +10MHz | -52.29 | -42.2 | Pass |
|        |        |       | 1 | +5MHz  | -45.61 | -32.2 | Pass |
|        |        |       |   | -5 MHz | -44.14 | -32.2 | Pass |
|        |        |       |   | -10MHz | -53.43 | -42.2 | Pass |
|        |        |       |   | +10MHz | -53.67 | -42.2 | Pass |
|        |        |       | 2 | +5MHz  | -45.44 | -32.2 | Pass |
|        |        |       |   | -5 MHz | -44.17 | -32.2 | Pass |
|        |        |       |   | -10MHz | -52.63 | -42.2 | Pass |
|        |        |       |   | +10MHz | -53.08 | -42.2 | Pass |
|        |        |       | 3 | +5MHz  | -45.47 | -32.2 | Pass |
|        |        |       |   | -5 MHz | -43.95 | -32.2 | Pass |
|        |        |       |   | -10MHz | -52.51 | -42.2 | Pass |
|        |        |       |   | +10MHz | -53.13 | -42.2 | Pass |
|        |        |       | 4 | +5MHz  | -45.43 | -32.2 | Pass |
| -5 MHz | -43.95 | -32.2 |   | Pass   |        |       |      |
| -10MHz | -52.52 | -42.2 |   | Pass   |        |       |      |
| +10MHz | -53.15 | -42.2 |   | Pass   |        |       |      |

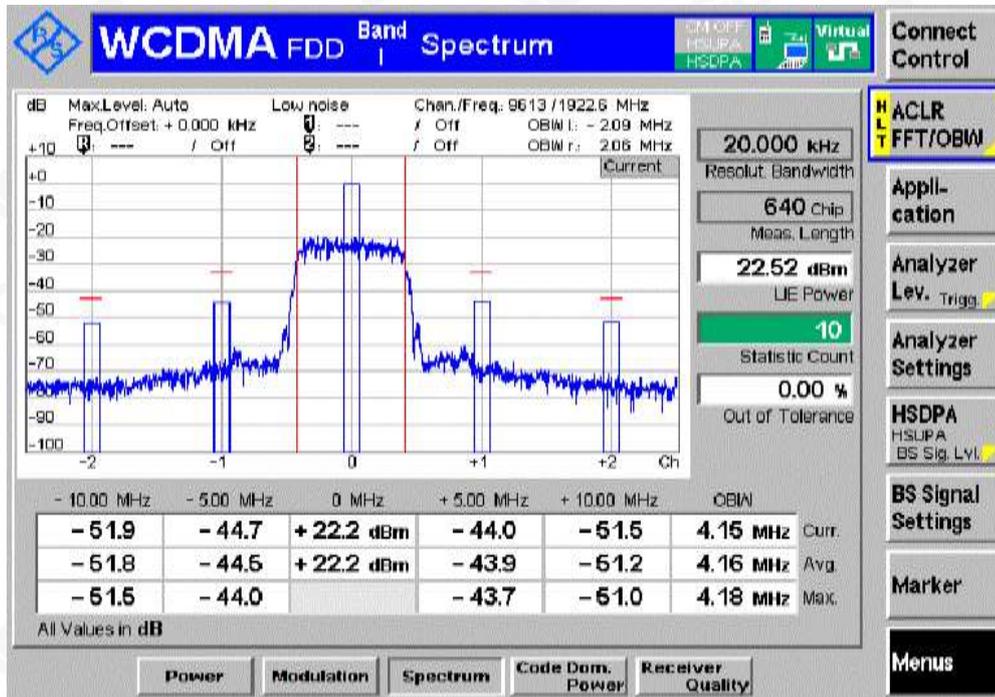


**BAND I**

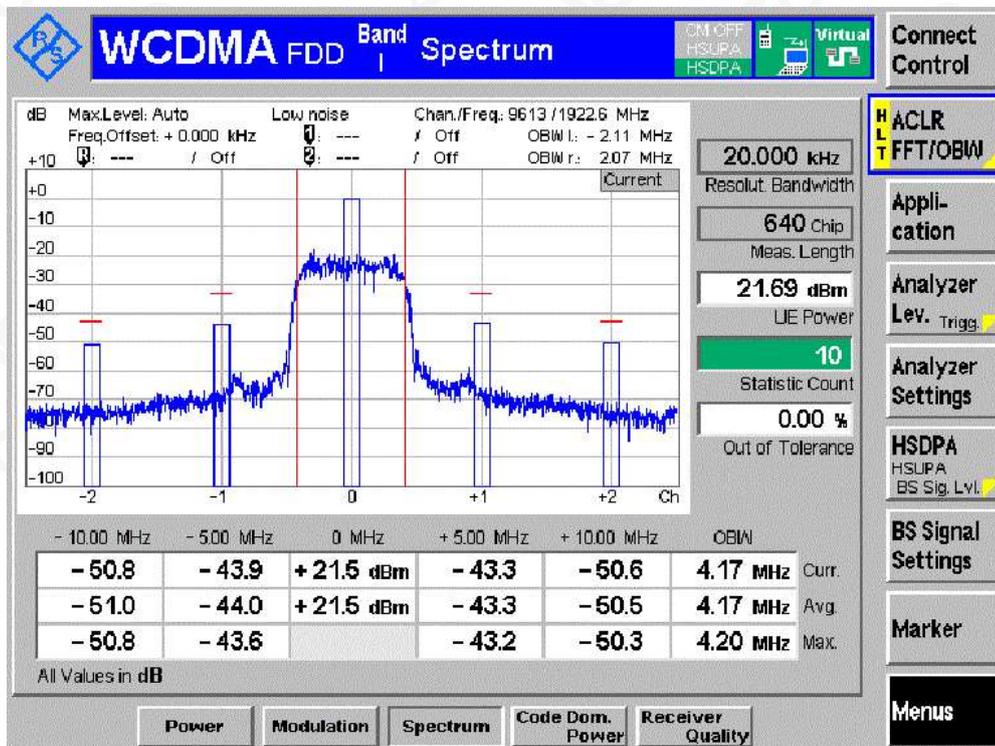
**TNPN**

**Channel LCH**

**Sub-test 1**



**Sub-test 2**



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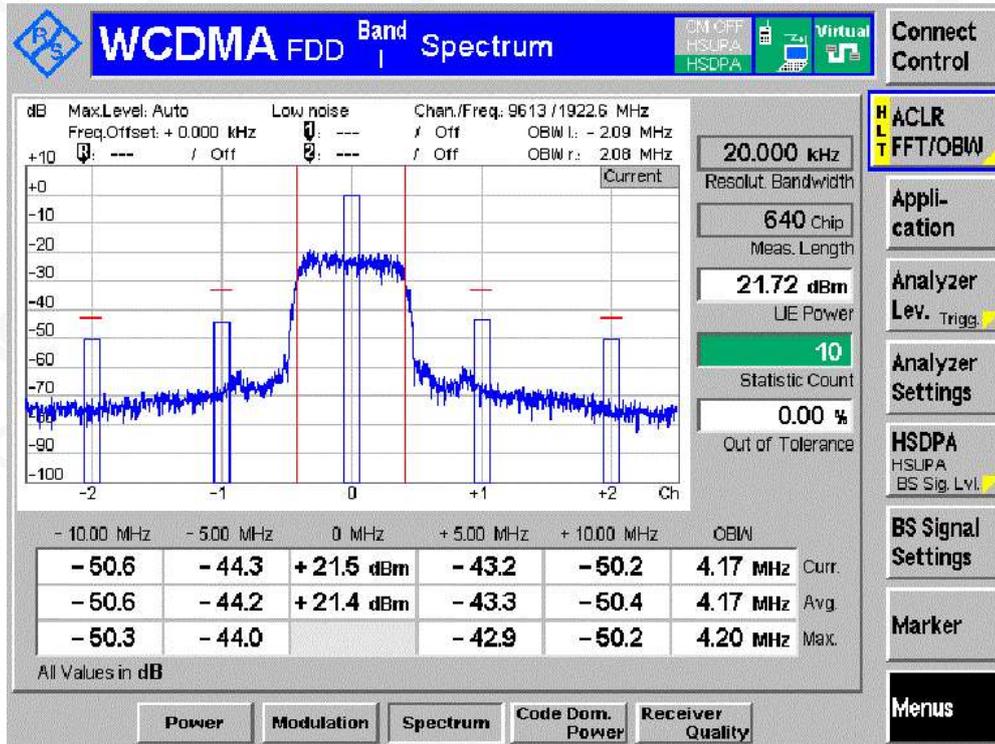
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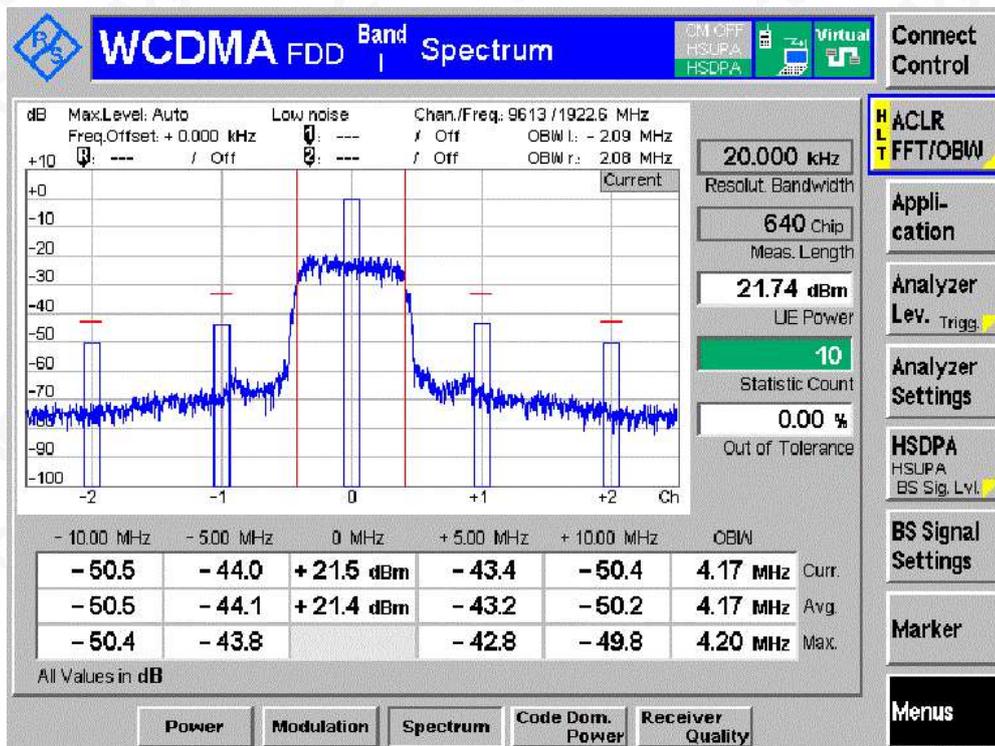
E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

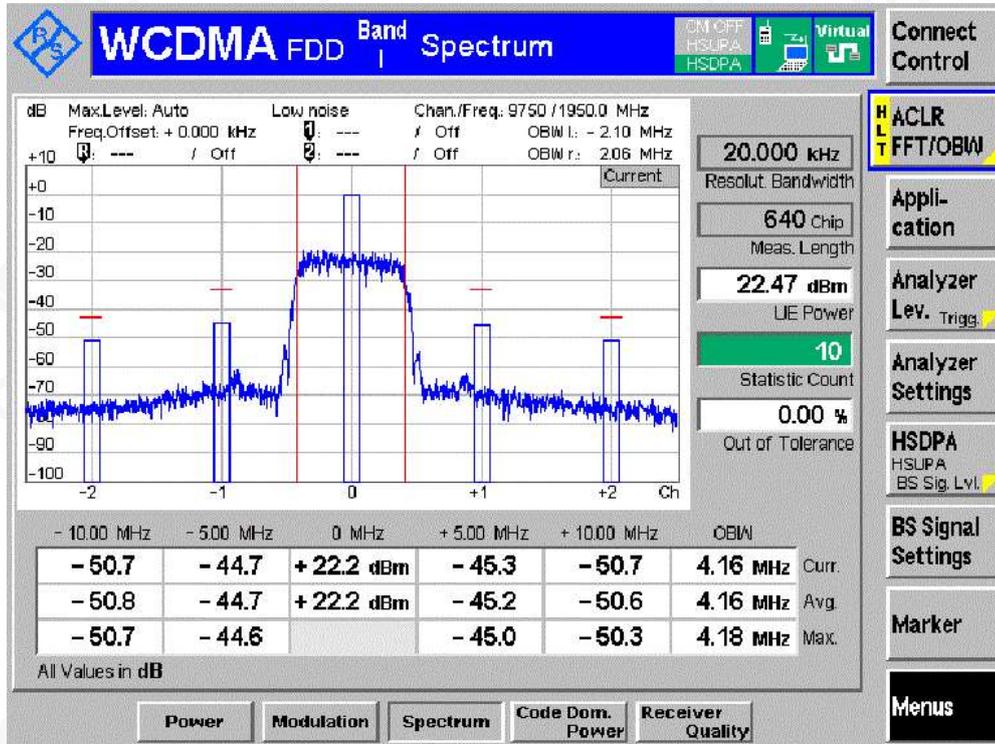
Sub-test 3



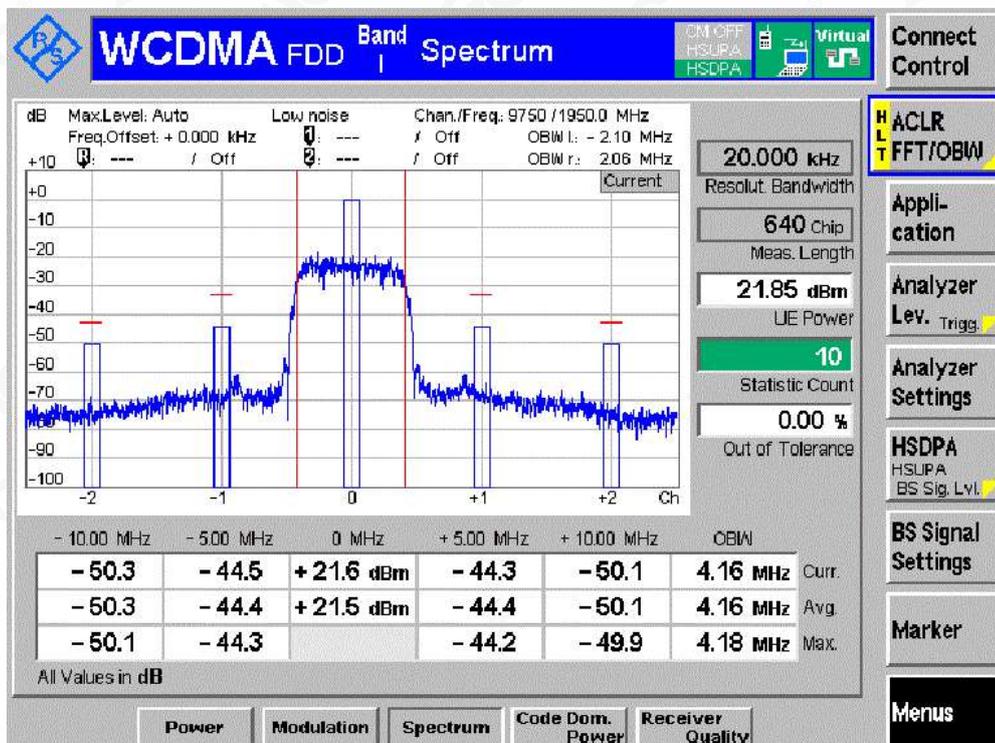
Sub-test 4



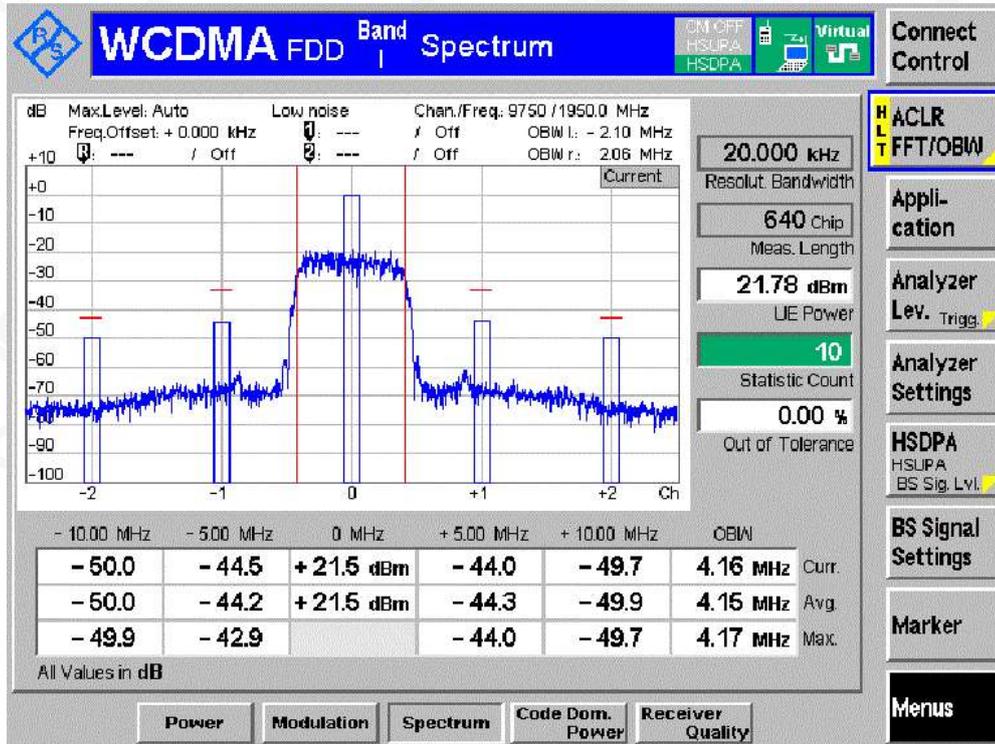
Channel MCH  
Sub-test 1



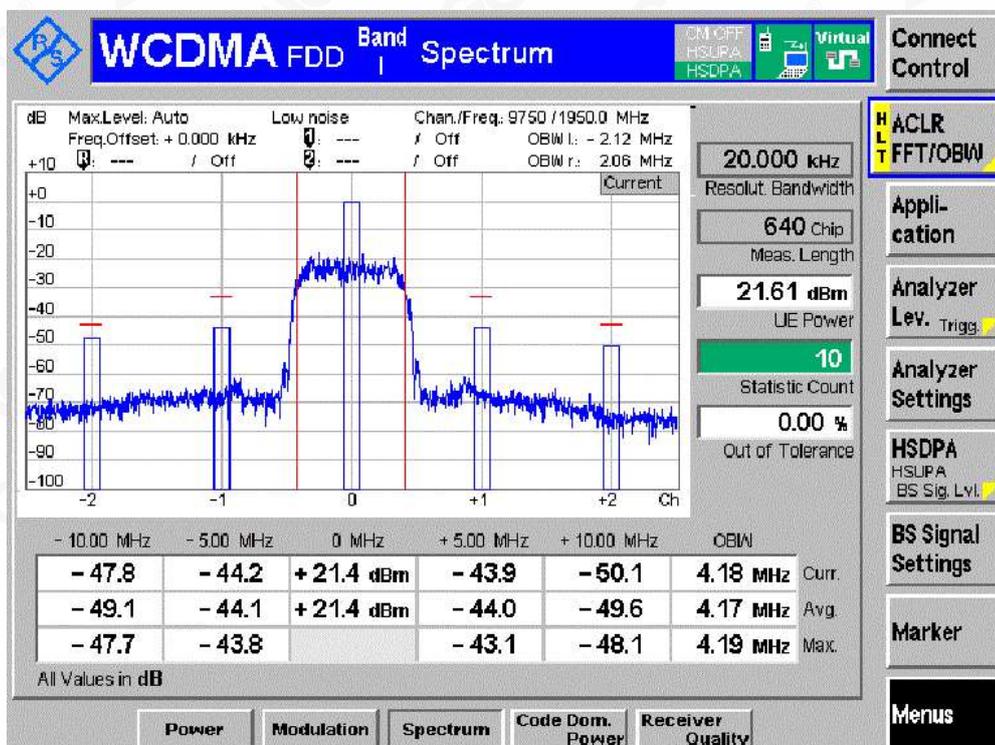
Sub-test 2



Sub-test 3



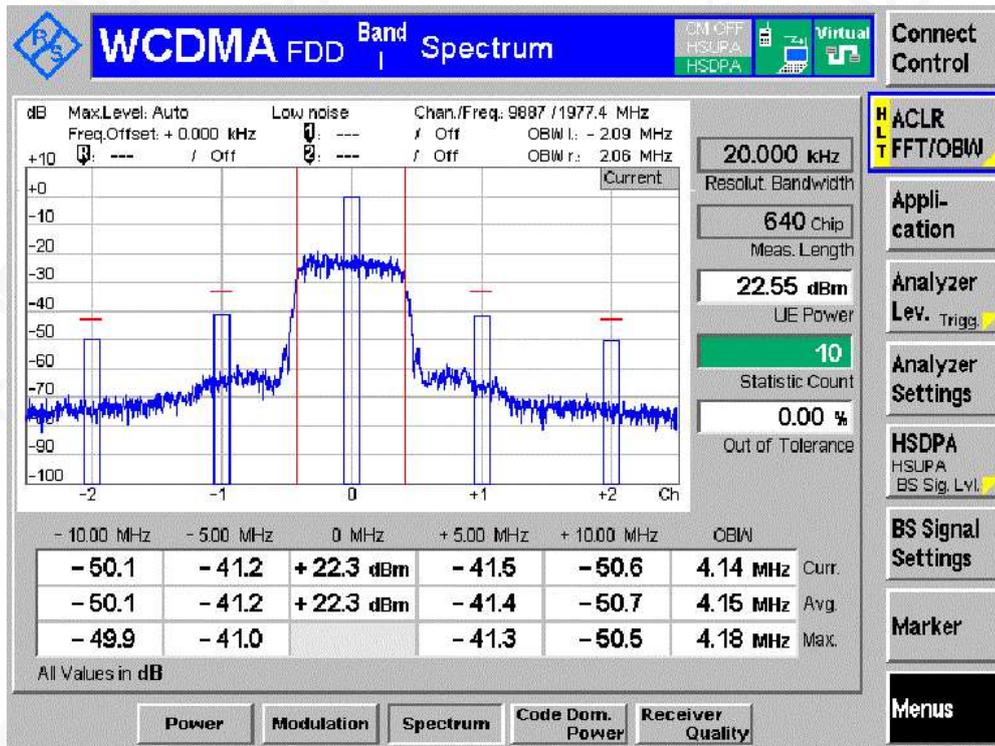
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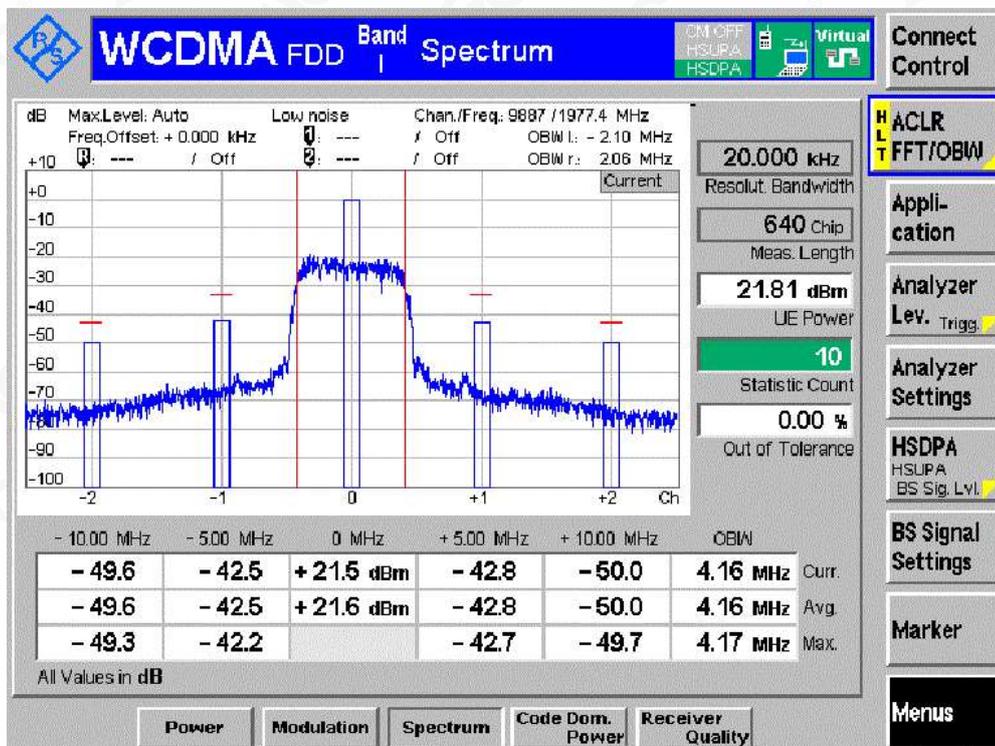
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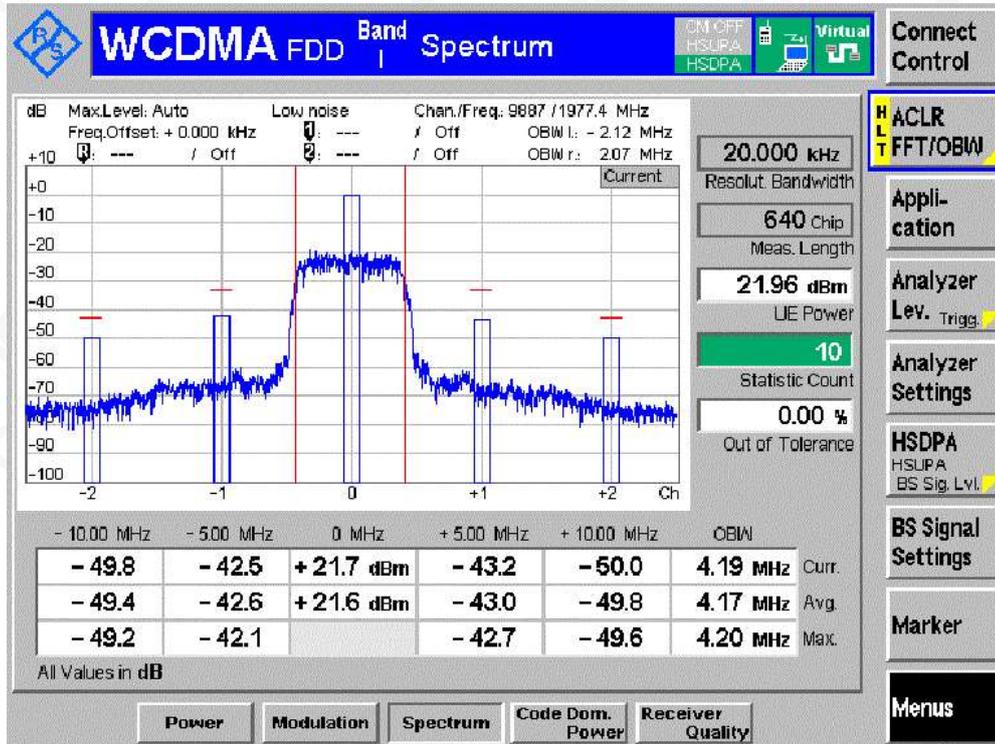
Channel HCH  
Sub-test 1



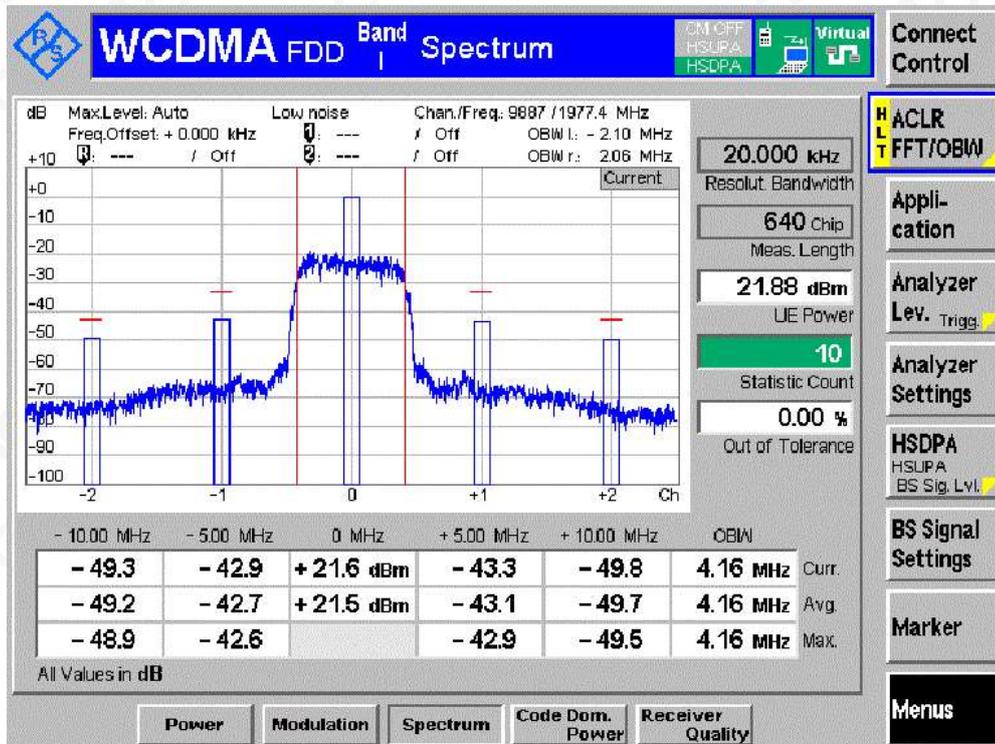
Sub-test 2



Sub-test 3



Sub-test 4



Attestation of Global Compliance

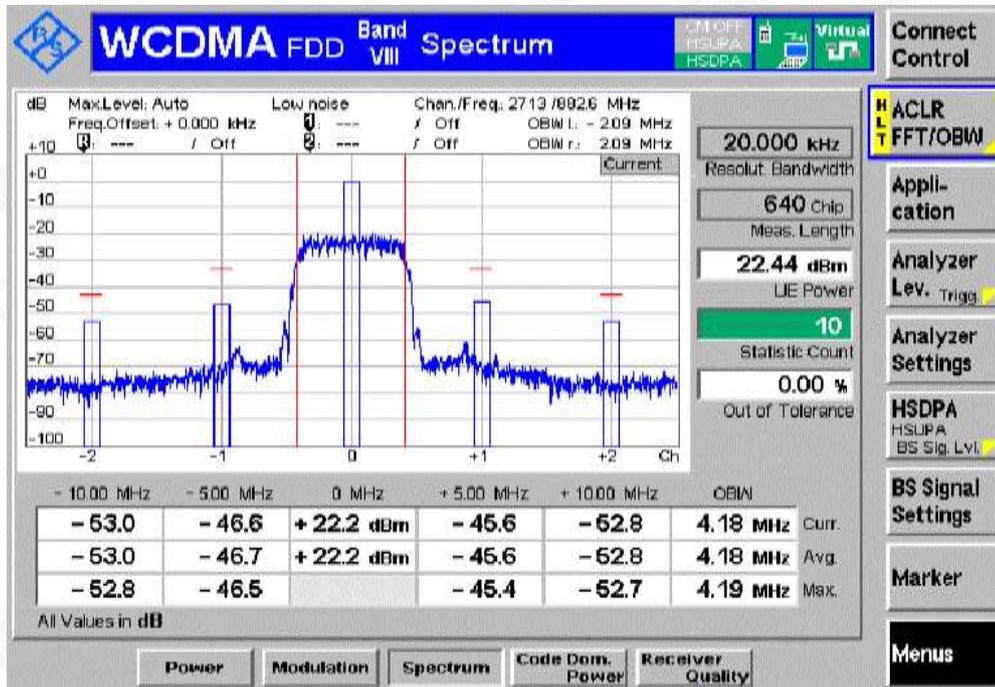
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**BAND VIII**

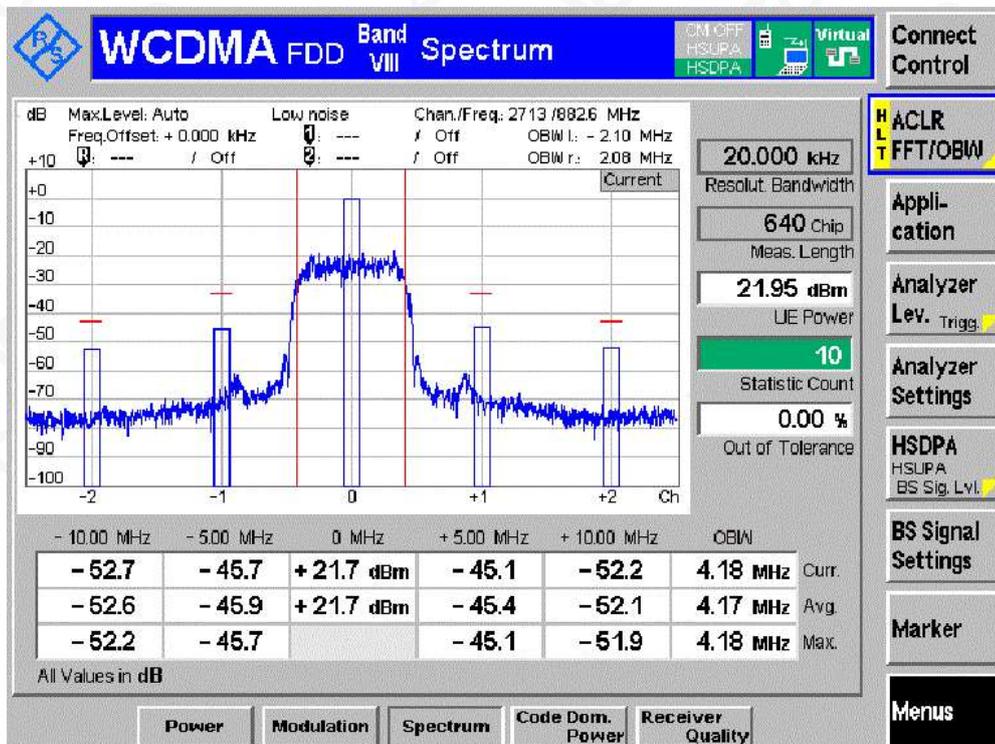
**TNVN**

**Channel LCH**

**Sub-test 1**



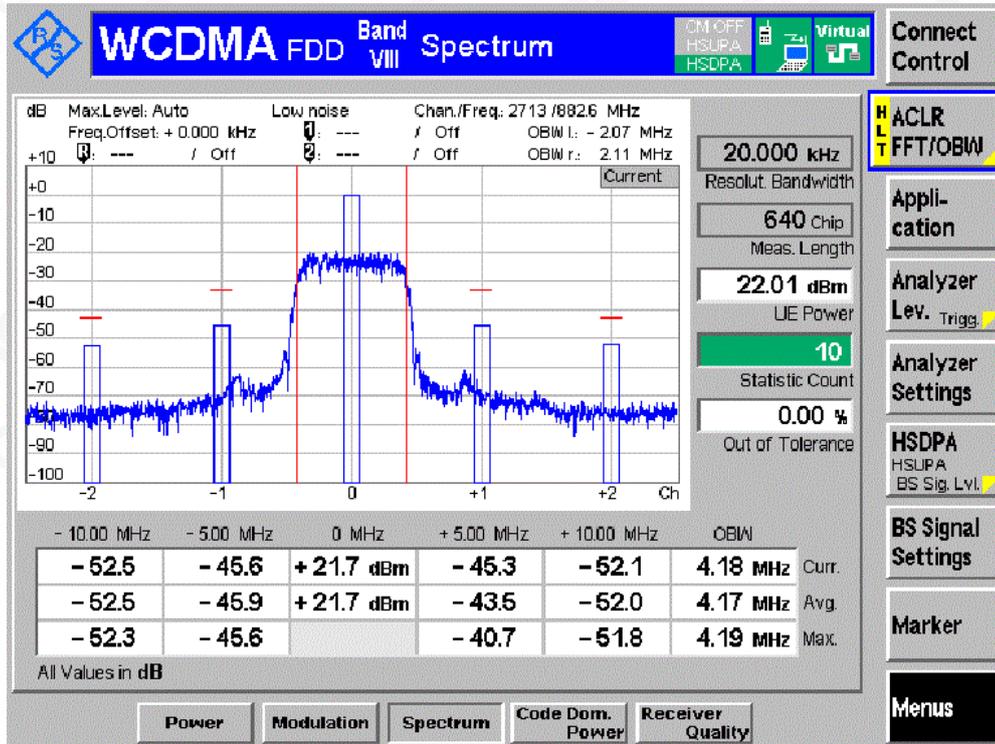
**Sub-test 2**



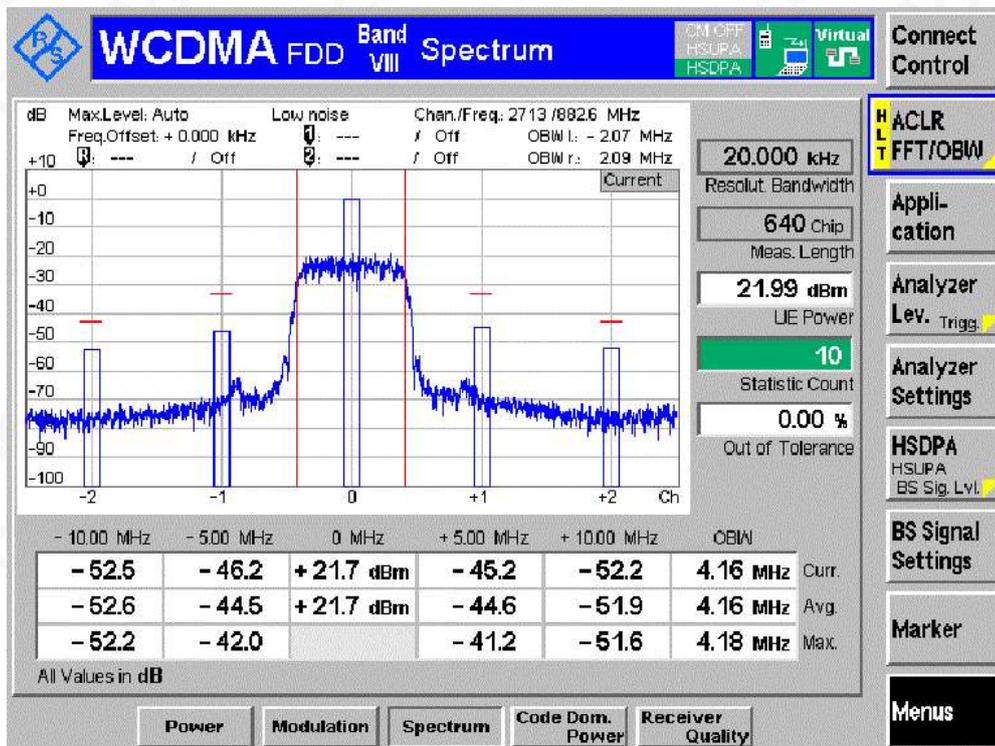
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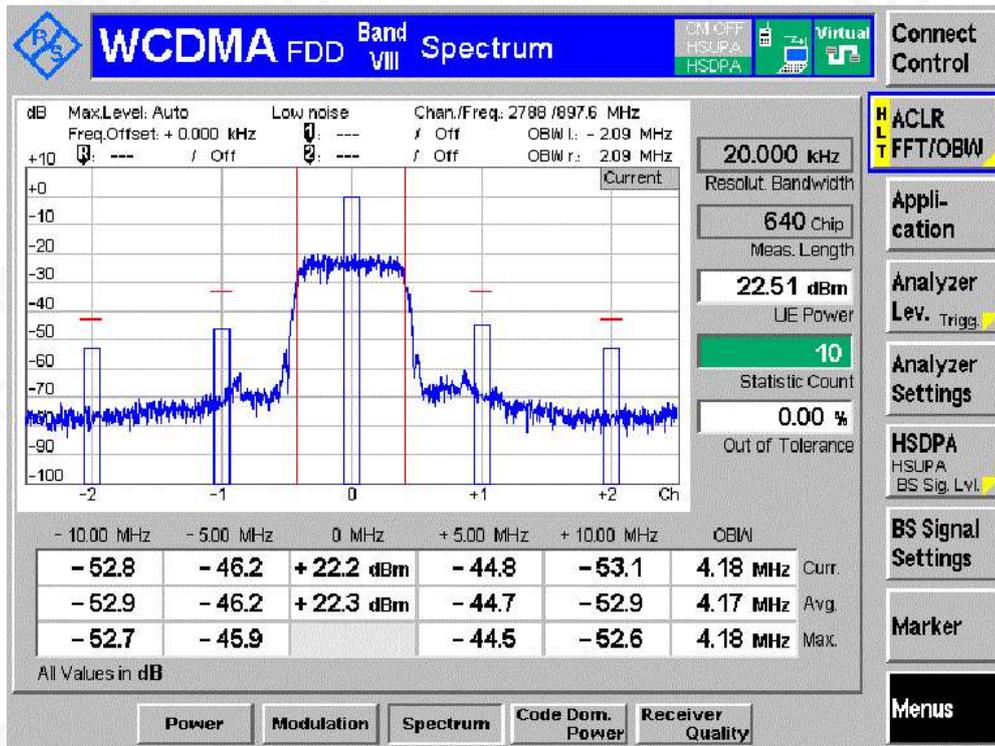
Sub-test 3



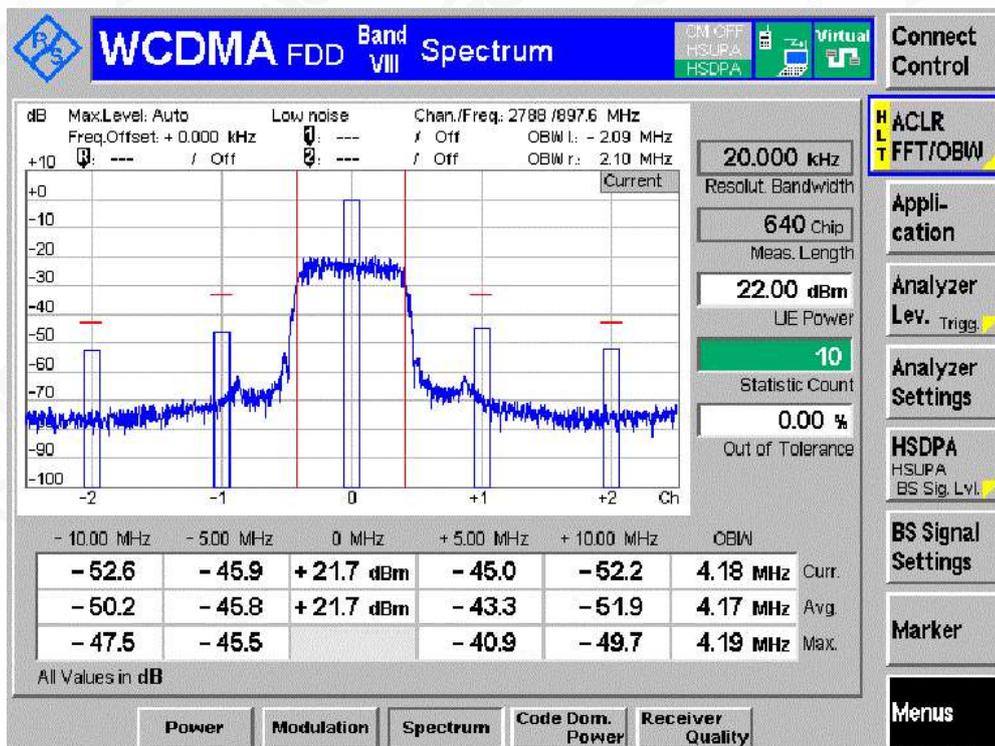
Sub-test 4



Channel MCH  
Sub-test 1



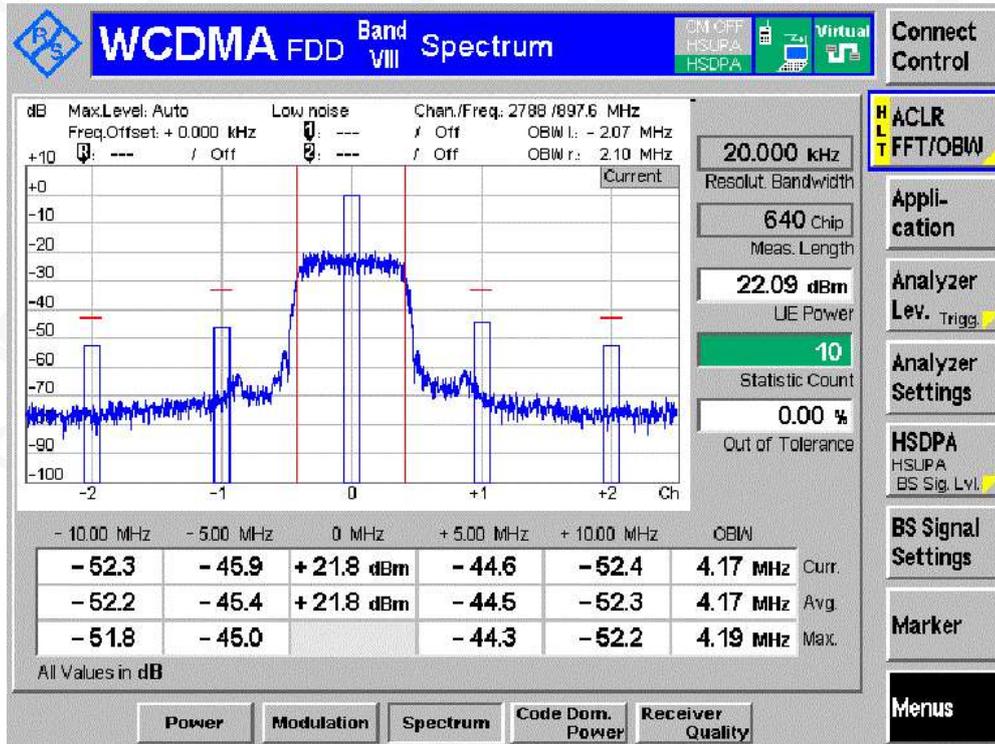
Sub-test 2



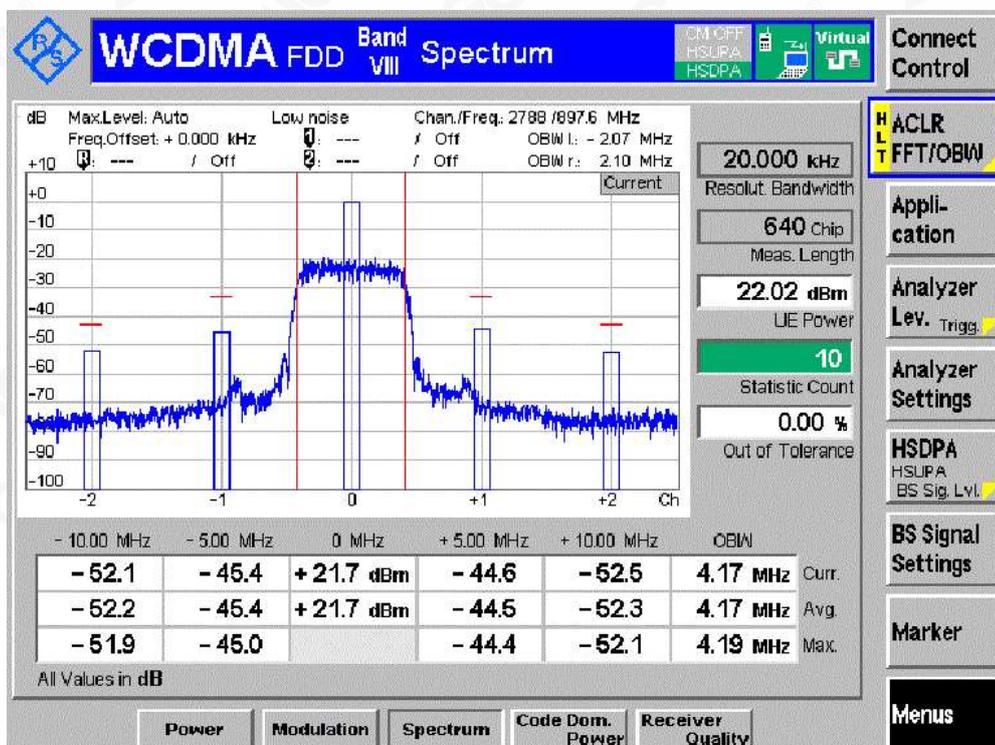
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Sub-test 3



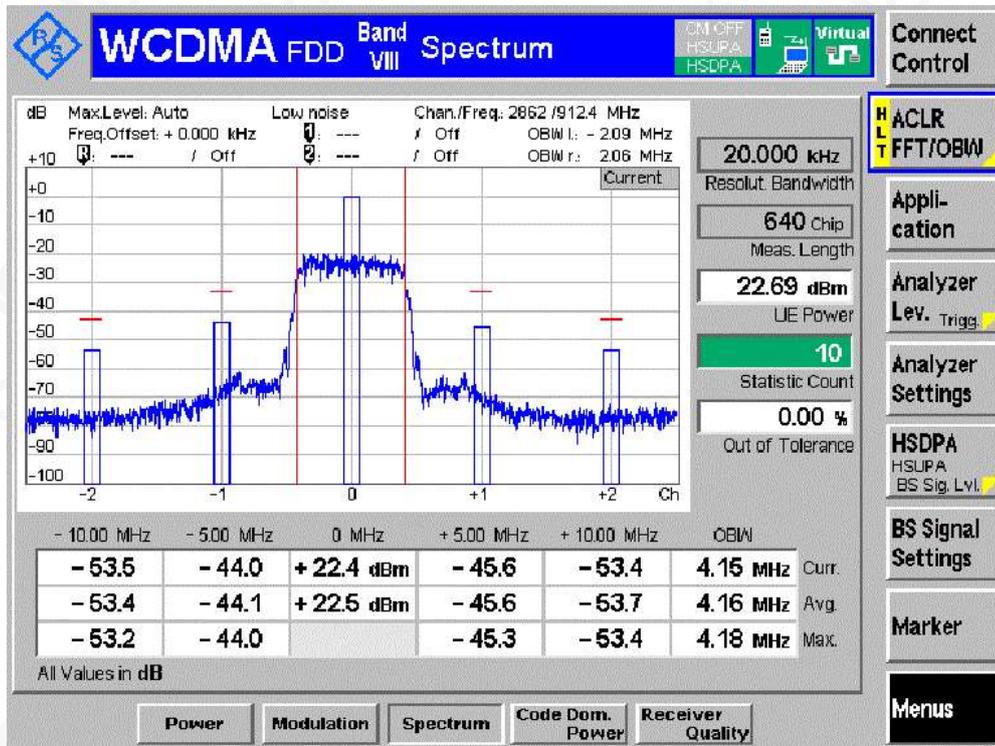
Sub-test 4



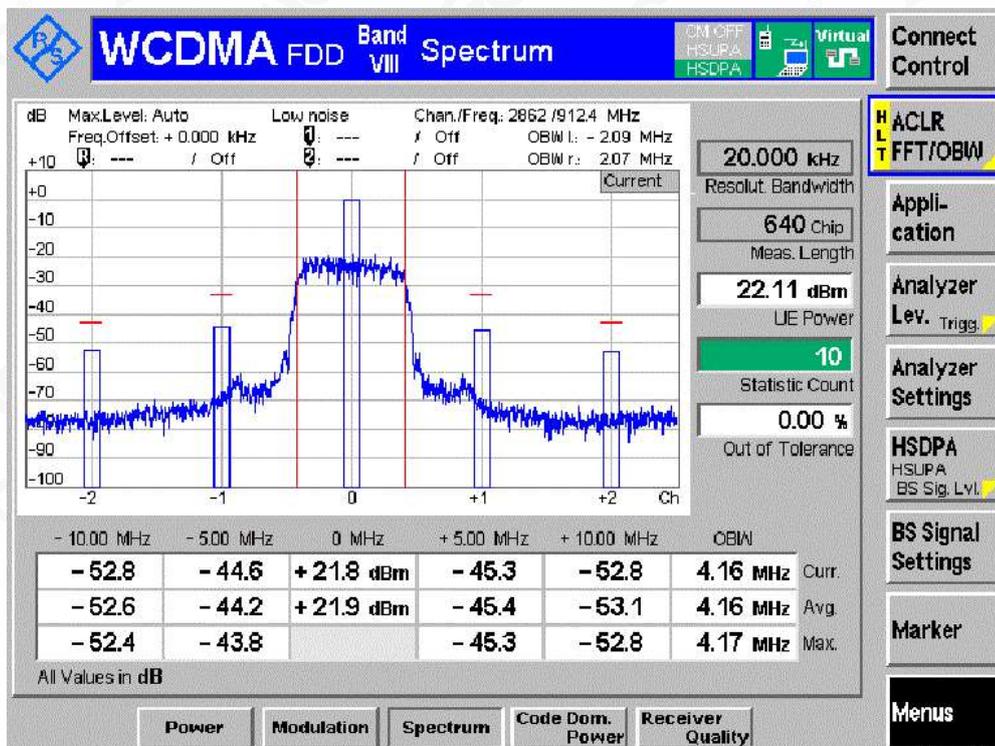
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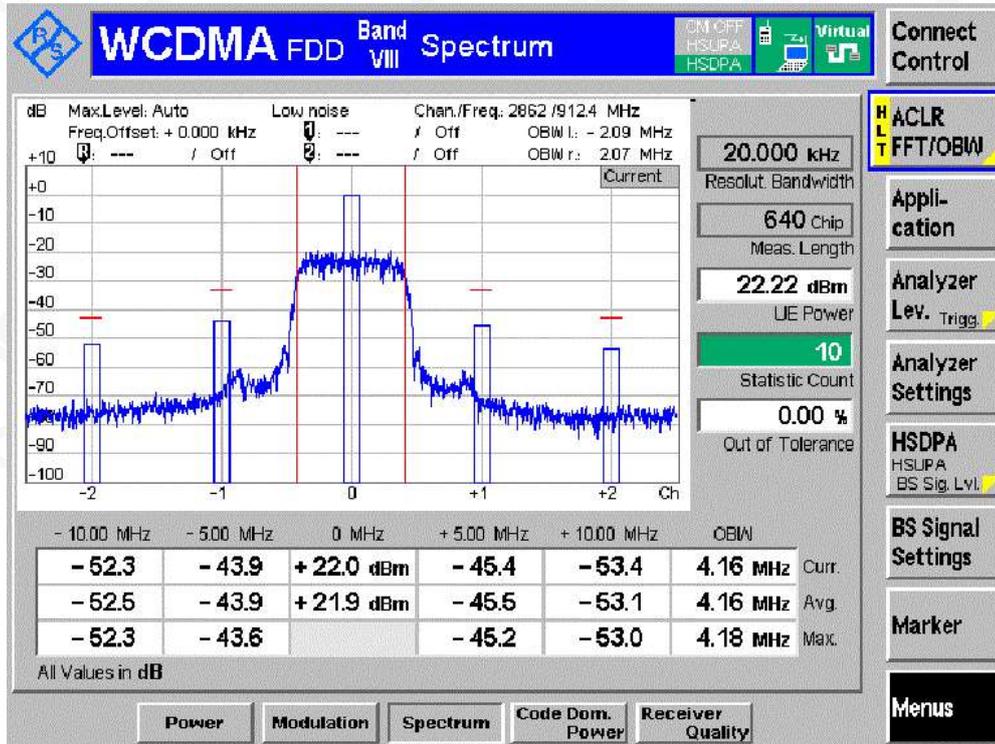
Channel HCH  
Sub-test 1



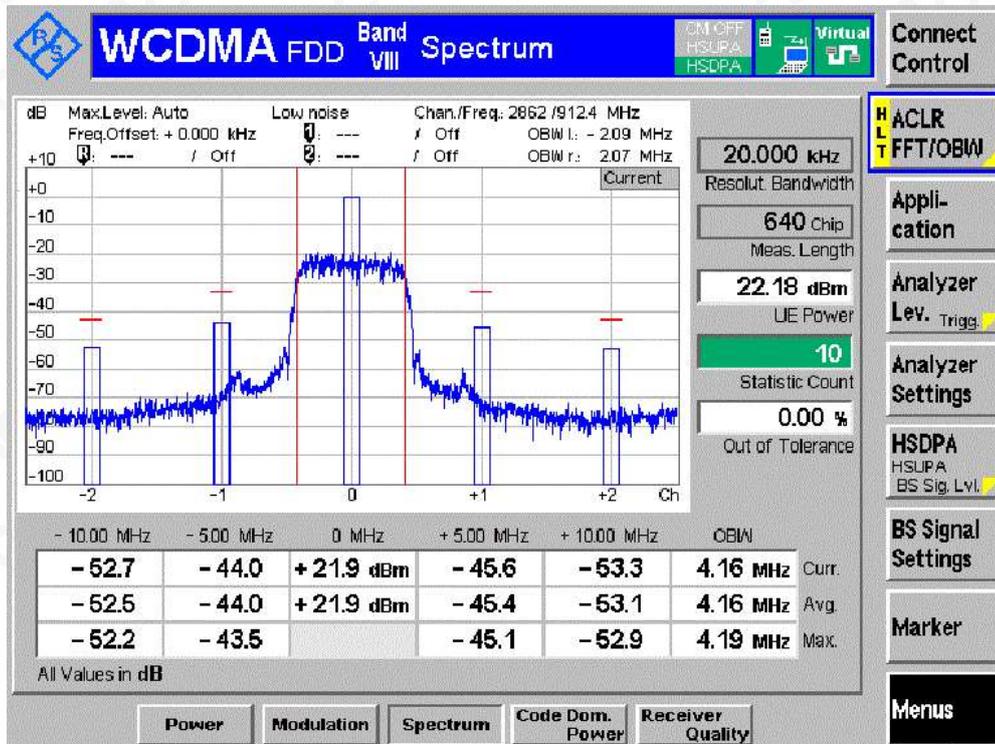
Sub-test 2



Sub-test 3



Sub-test 4



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

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

| Operating Band | Test Conditions | Test Channel | Sub-test | Measurement Data(dBm) | Limit(dBm)     | Result |
|----------------|-----------------|--------------|----------|-----------------------|----------------|--------|
| Band I         | TNVN            | LCH          | 1        | 21.20                 | +24(+1.7/-6.7) | Pass   |
|                |                 |              | 2        | 21.36                 | +22(+3.7/-5.2) | Pass   |
|                |                 |              | 3        | 22.20                 | +23(+2.7/-5.2) | Pass   |
|                |                 |              | 4        | 20.70                 | +22(+3.7/-5.2) | Pass   |
|                |                 |              | 5        | 20.78                 | +24(+1.7/-3.7) | Pass   |
|                |                 | MCH          | 1        | 21.18                 | +24(+1.7/-6.7) | Pass   |
|                |                 |              | 2        | 21.40                 | +22(+3.7/-5.2) | Pass   |
|                |                 |              | 3        | 22.20                 | +23(+2.7/-5.2) | Pass   |
|                |                 |              | 4        | 20.65                 | +22(+3.7/-5.2) | Pass   |
|                |                 |              | 5        | 20.47                 | +24(+1.7/-3.7) | Pass   |
|                |                 | HCH          | 1        | 21.23                 | +24(+1.7/-6.7) | Pass   |
|                |                 |              | 2        | 21.46                 | +22(+3.7/-5.2) | Pass   |
|                |                 |              | 3        | 22.26                 | +23(+2.7/-5.2) | Pass   |
|                |                 |              | 4        | 20.82                 | +22(+3.7/-5.2) | Pass   |
|                |                 |              | 5        | 20.65                 | +24(+1.7/-3.7) | Pass   |

| Operating Band | Test Conditions | Test Channel | Sub-test | Measurement Data(dBm) | Limit(dBm)     | Result |
|----------------|-----------------|--------------|----------|-----------------------|----------------|--------|
| Band VIII      | TNVN            | LCH          | 1        | 21.33                 | +24(+1.7/-6.7) | Pass   |
|                |                 |              | 2        | 21.40                 | +22(+3.7/-5.2) | Pass   |
|                |                 |              | 3        | 22.39                 | +23(+2.7/-5.2) | Pass   |
|                |                 |              | 4        | 20.75                 | +22(+3.7/-5.2) | Pass   |
|                |                 |              | 5        | 20.41                 | +24(+1.7/-3.7) | Pass   |
|                |                 | MCH          | 1        | 21.36                 | +24(+1.7/-6.7) | Pass   |
|                |                 |              | 2        | 21.45                 | +22(+3.7/-5.2) | Pass   |



|  |  |     |   |       |                |      |
|--|--|-----|---|-------|----------------|------|
|  |  |     | 3 | 22.40 | +23(+2.7/-5.2) | Pass |
|  |  |     | 4 | 20.74 | +22(+3.7/-5.2) | Pass |
|  |  |     | 5 | 20.38 | +24(+1.7/-3.7) | Pass |
|  |  | HCH | 1 | 21.51 | +24(+1.7/-6.7) | Pass |
|  |  |     | 2 | 21.57 | +22(+3.7/-5.2) | Pass |
|  |  |     | 3 | 22.54 | +23(+2.7/-5.2) | Pass |
|  |  |     | 4 | 20.96 | +22(+3.7/-5.2) | Pass |
|  |  |     | 5 | 20.65 | +24(+1.7/-3.7) | Pass |



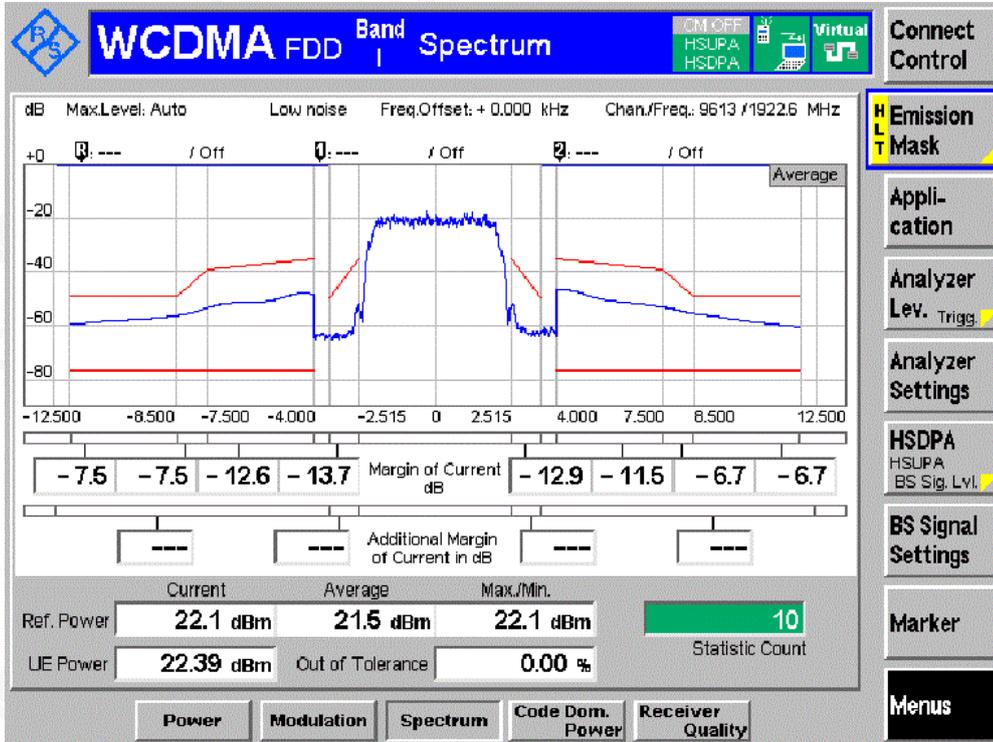
**Appendix J. Transmitter spectrum emission mask with HS-DPCCH and E-DCH**

| 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 |

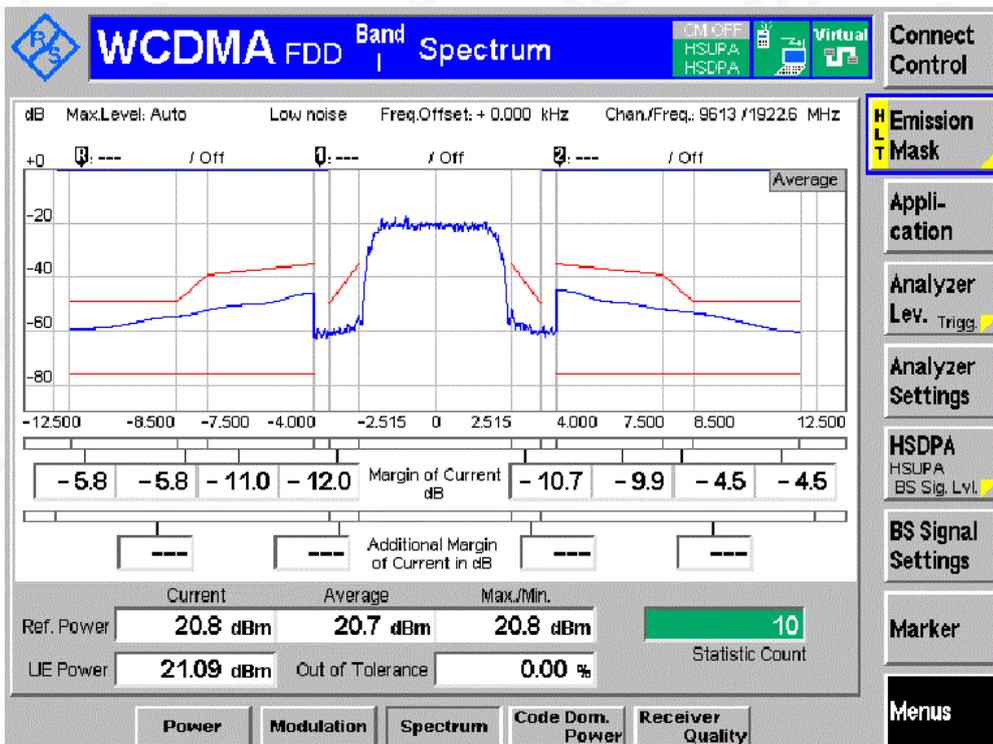
| Operating Band | Test Conditions | Sub-test | Test Channel |      |      |
|----------------|-----------------|----------|--------------|------|------|
|                |                 |          | LCH          | MCH  | HCH  |
| Band VIII      | TNVN            | 1        | PASS         | PASS |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



**BAND I**  
**Channel LCH**  
Sub-test 1



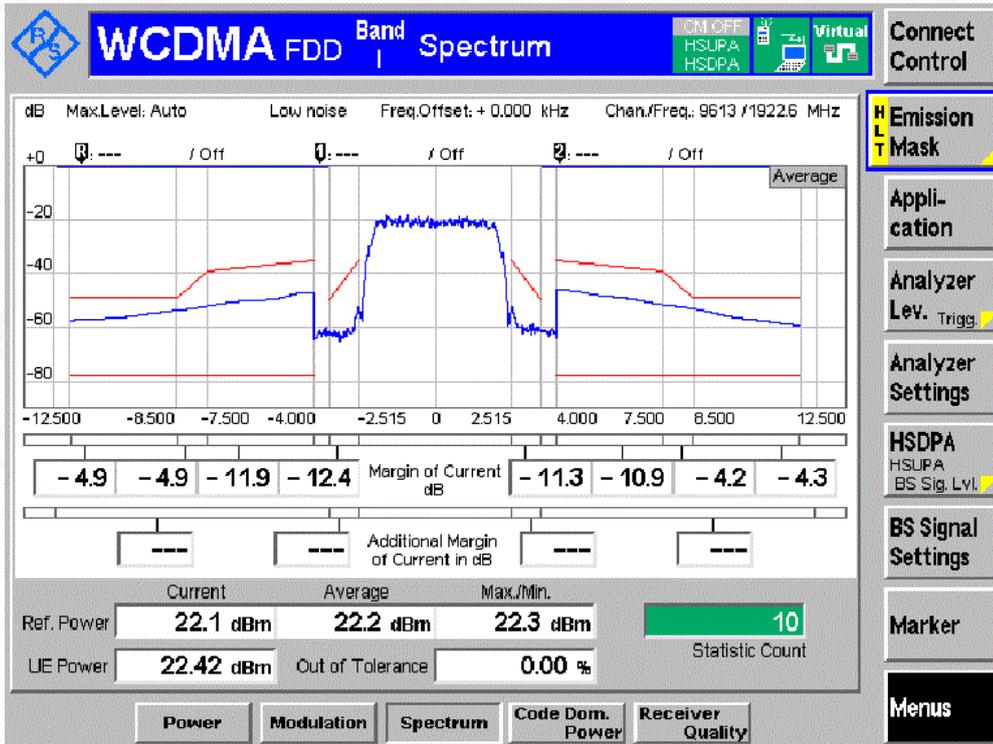
Sub-test 2



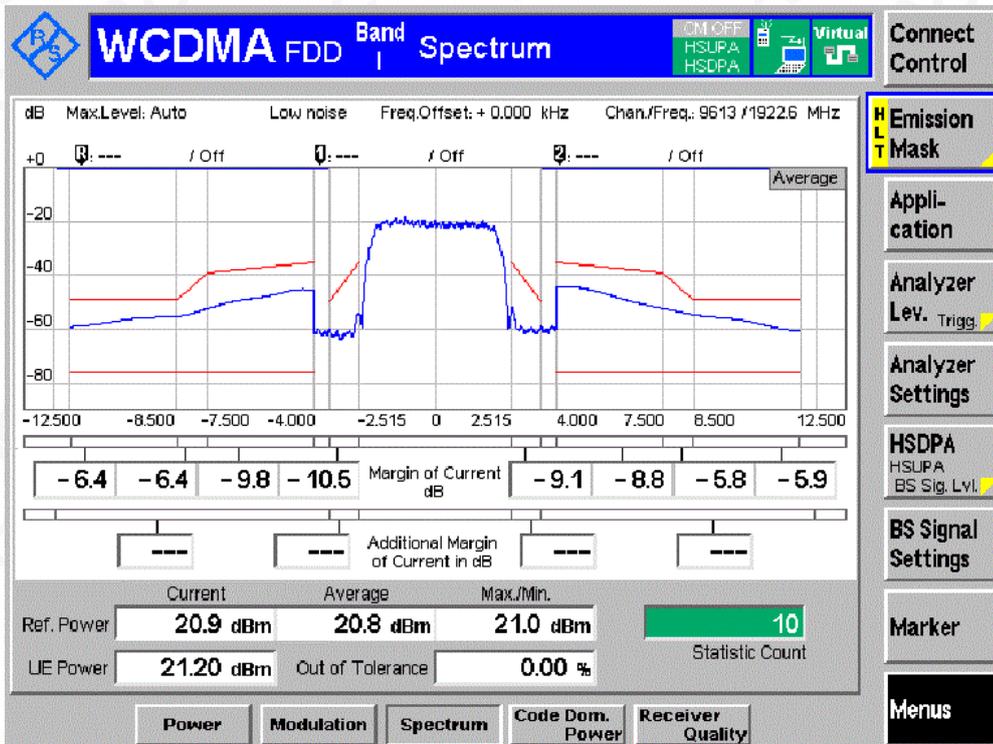
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Sub-test 3



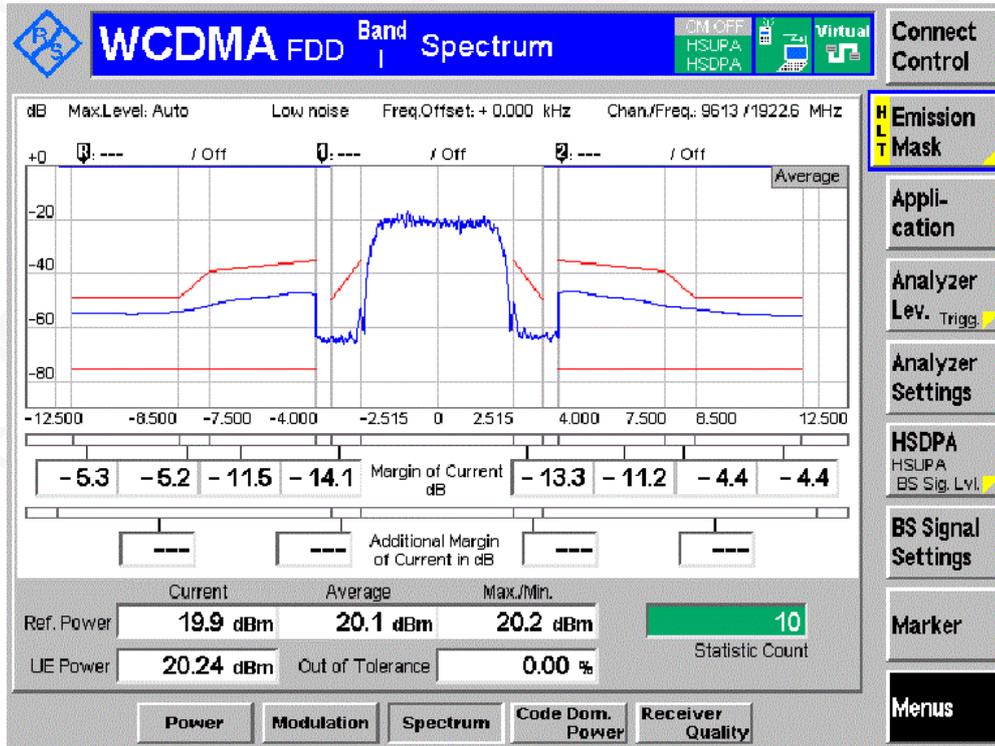
Sub-test 4



Attestation of Global Compliance

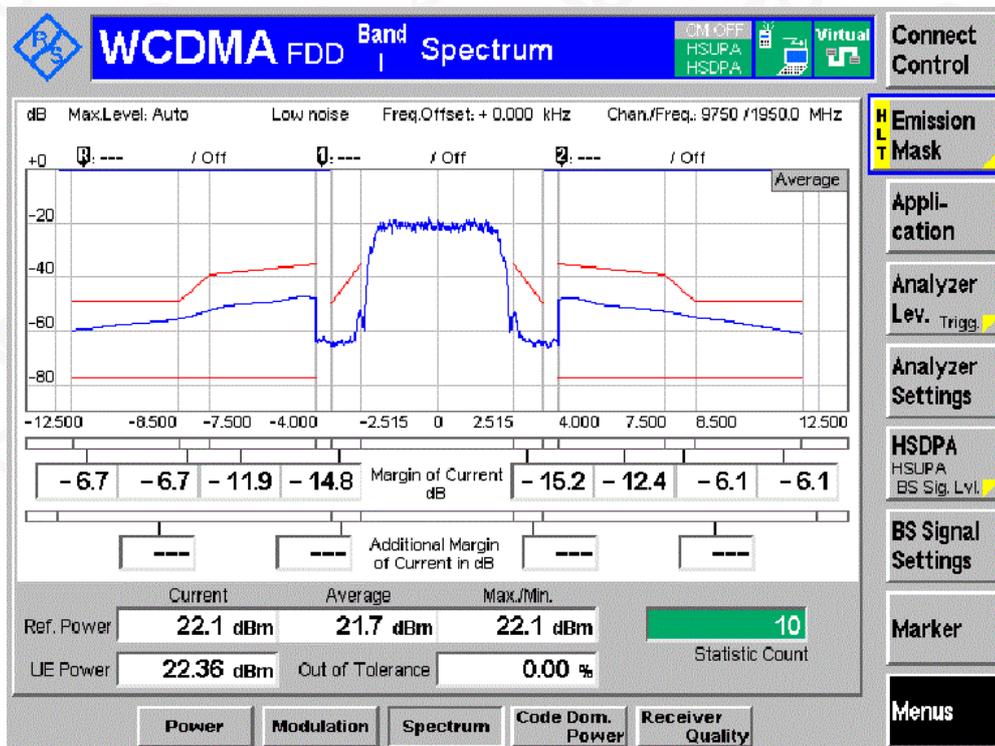
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Sub-test 5



Channel MCH

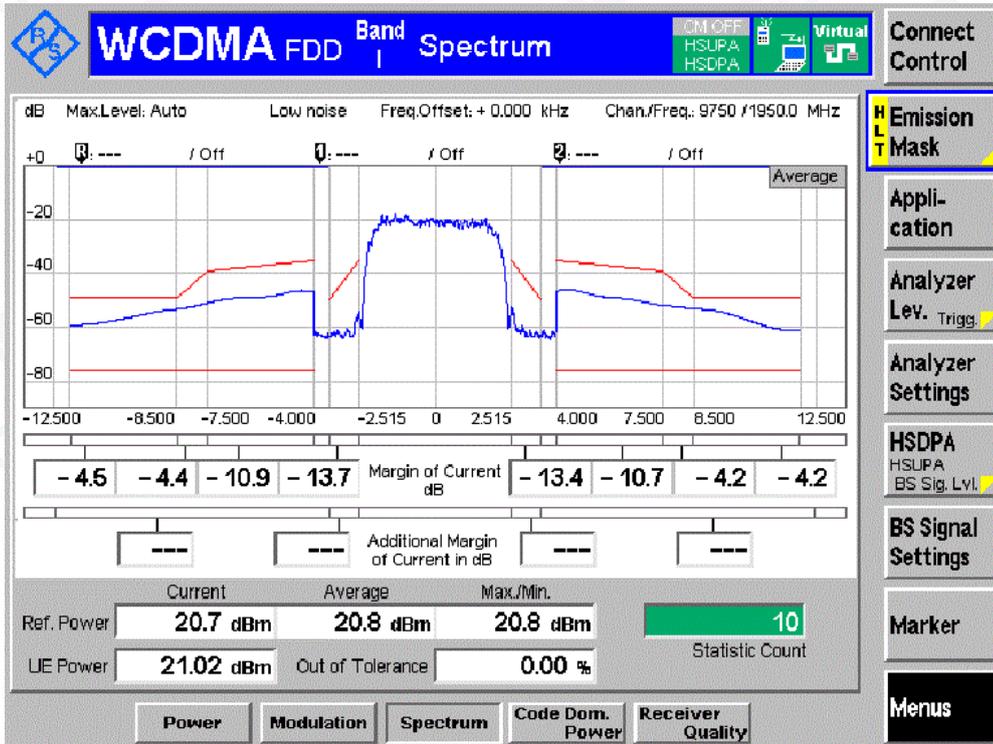
Sub-test 1



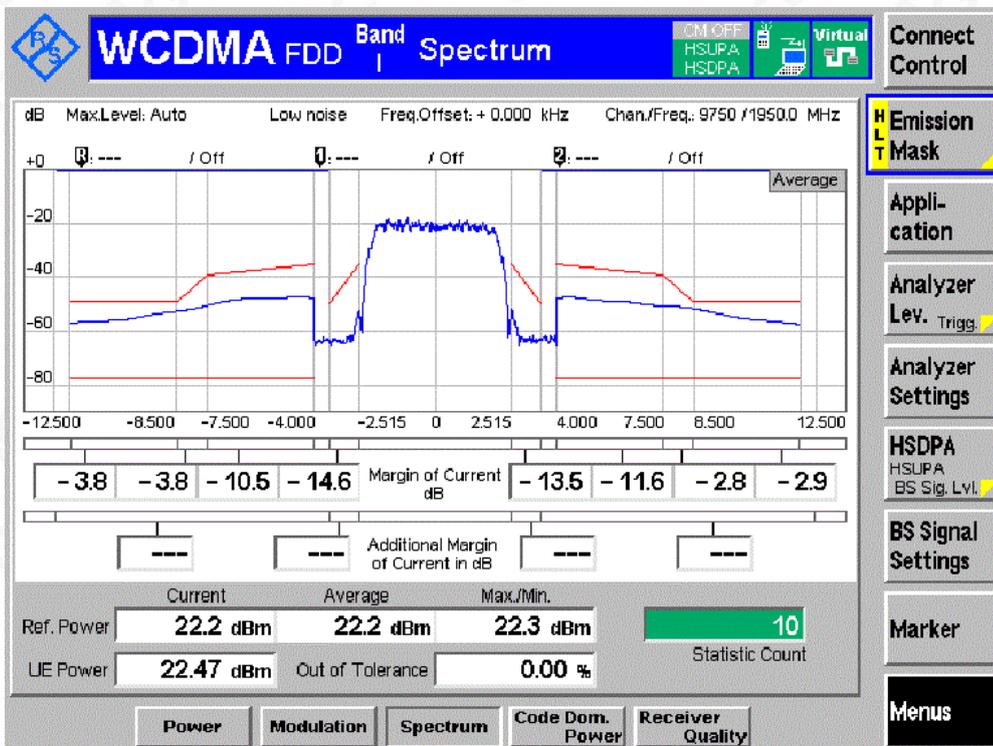
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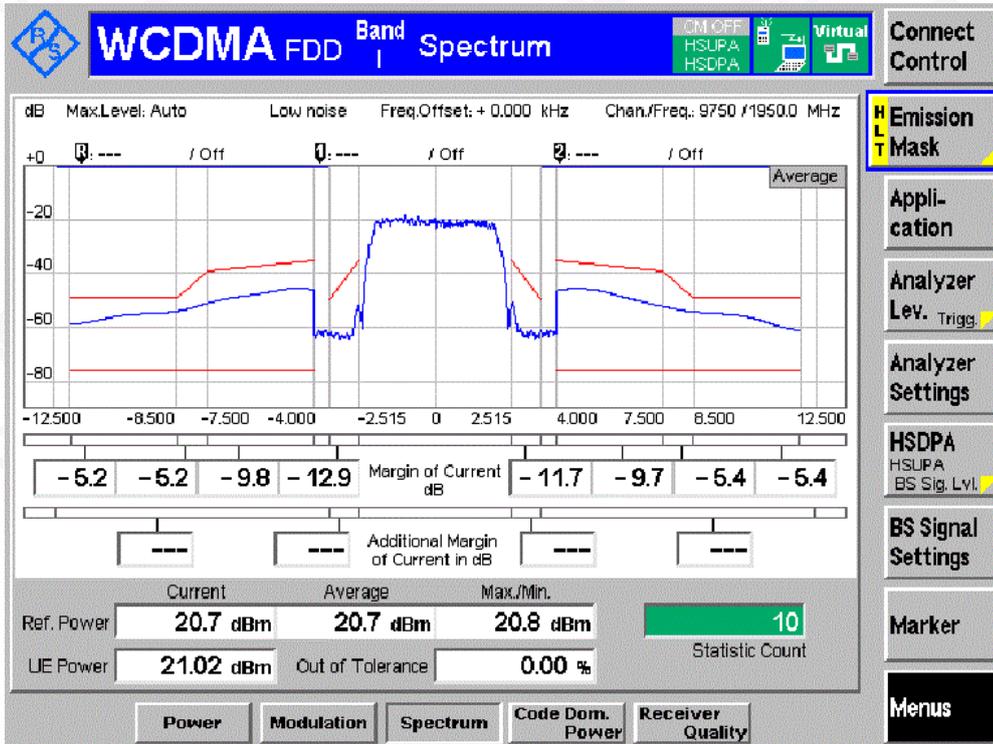
Sub-test 2



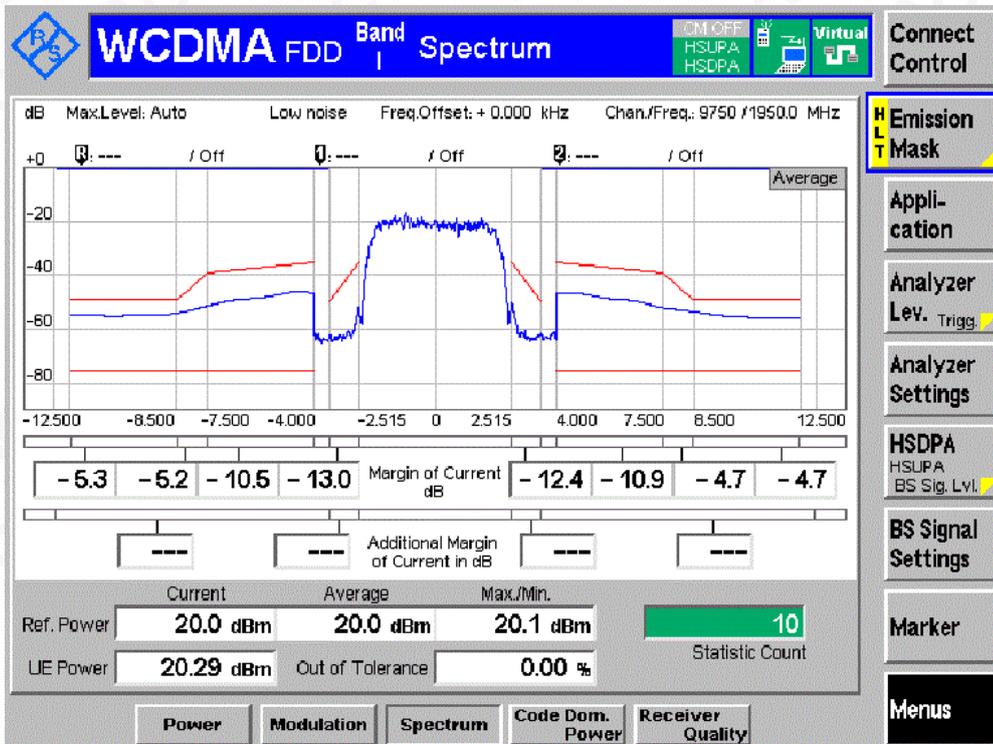
Sub-test 3



Sub-test 4



Sub – test 5

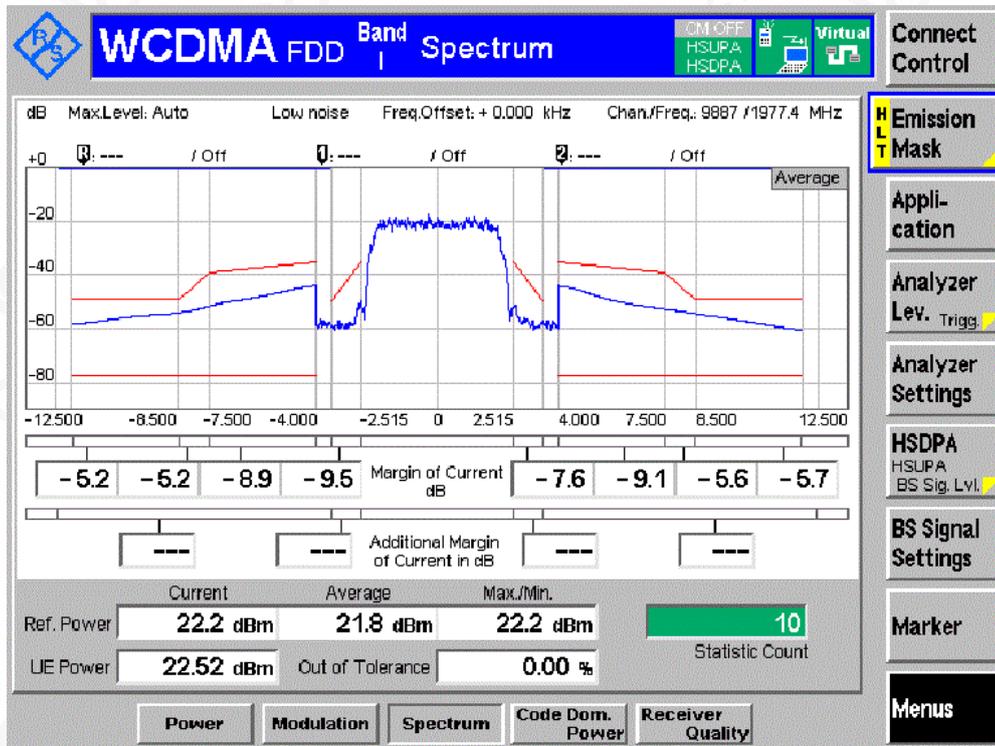


Attestation of Global Compliance

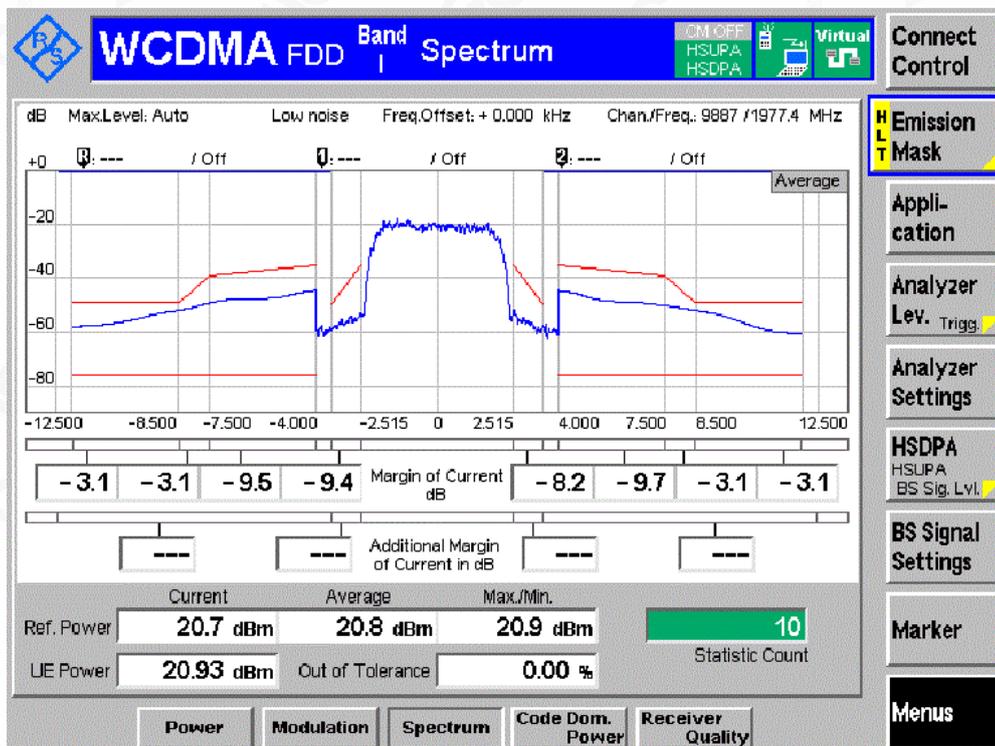
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**Channel HCH**

**Sub-test 1**



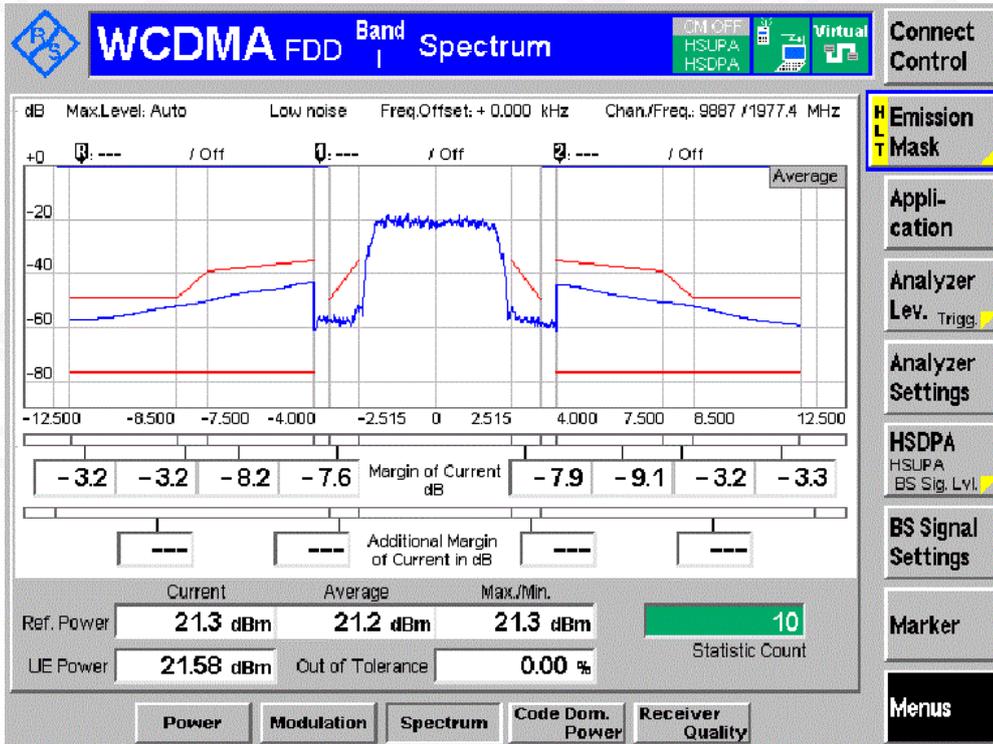
**Sub-test 2**



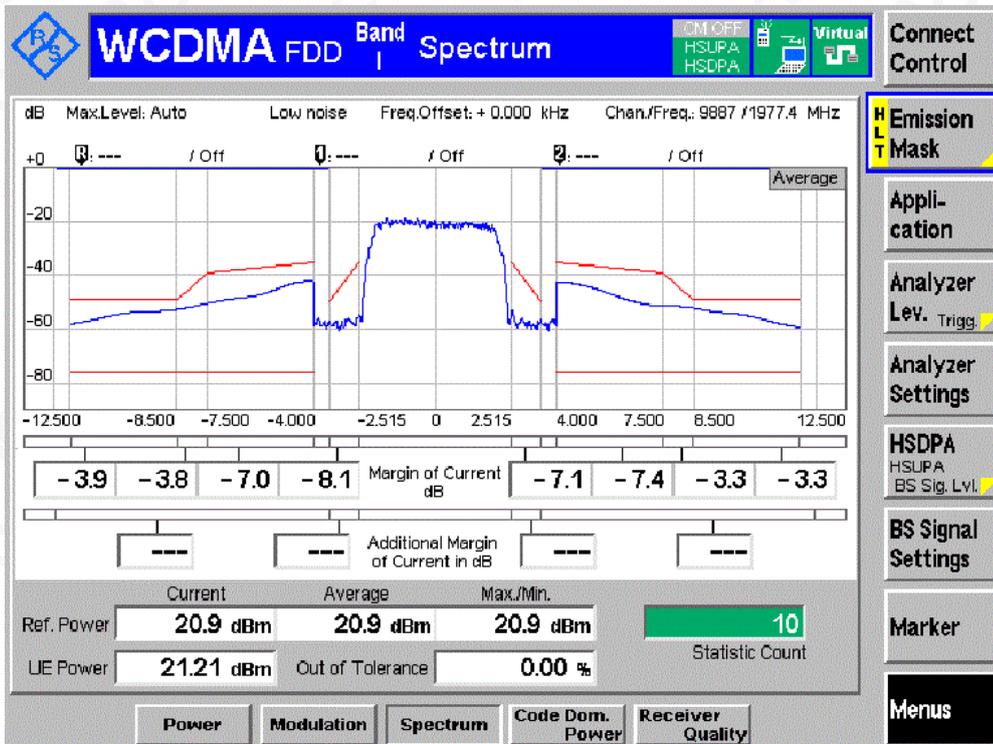
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Sub-test 3



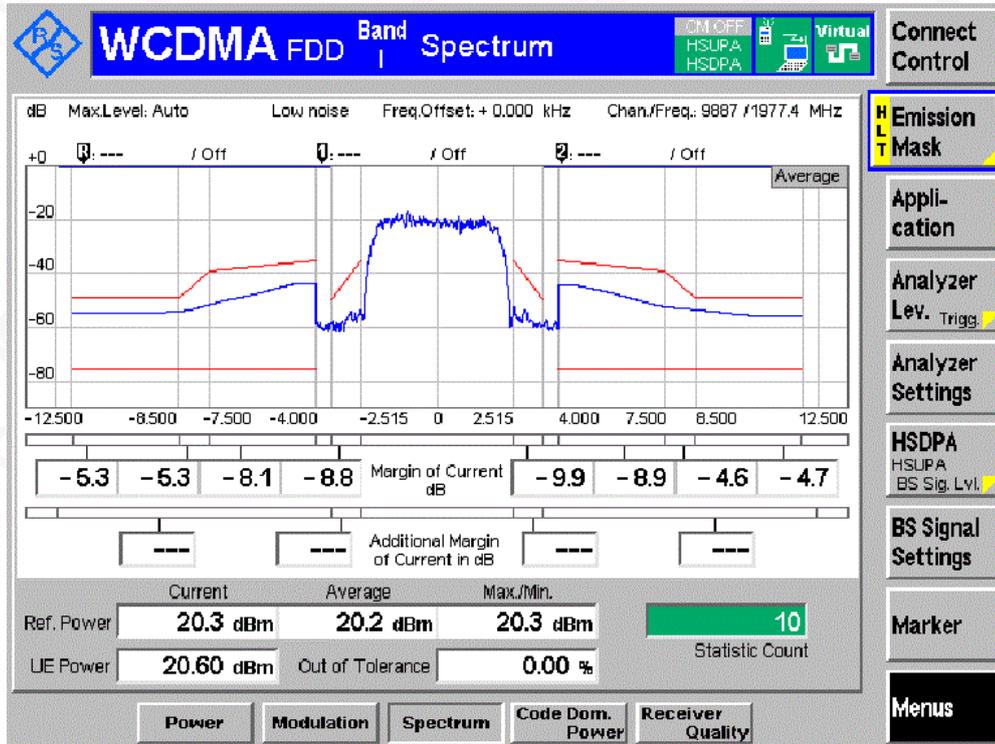
Sub-test 4



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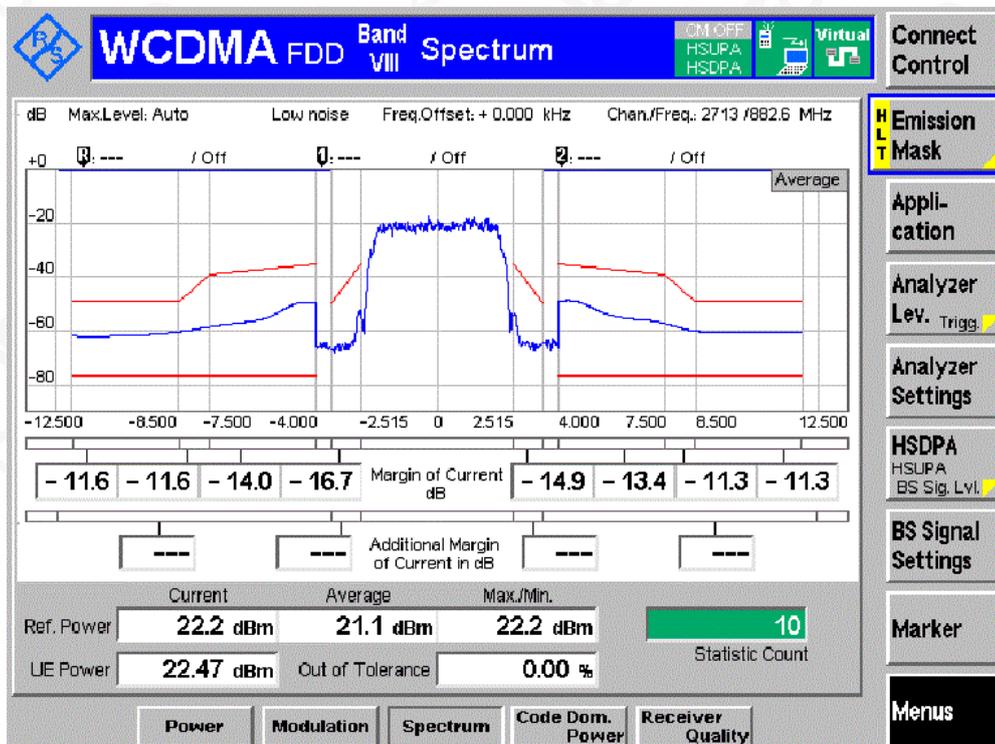
Sub-test 5



BAND VIII

Channel LCH

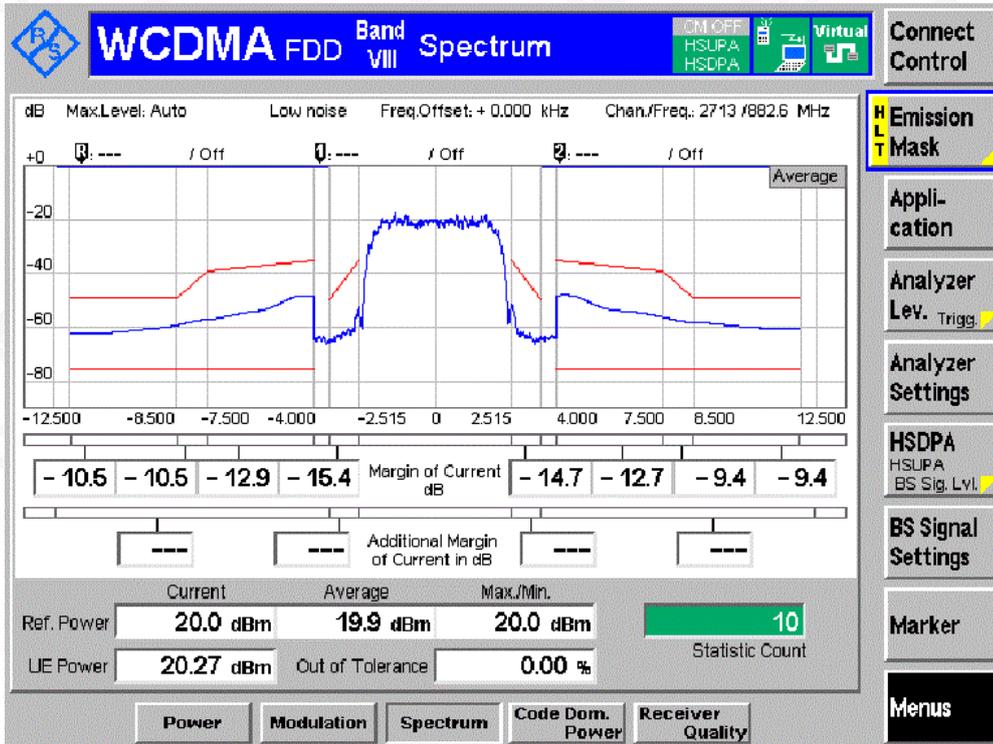
Sub-test 1



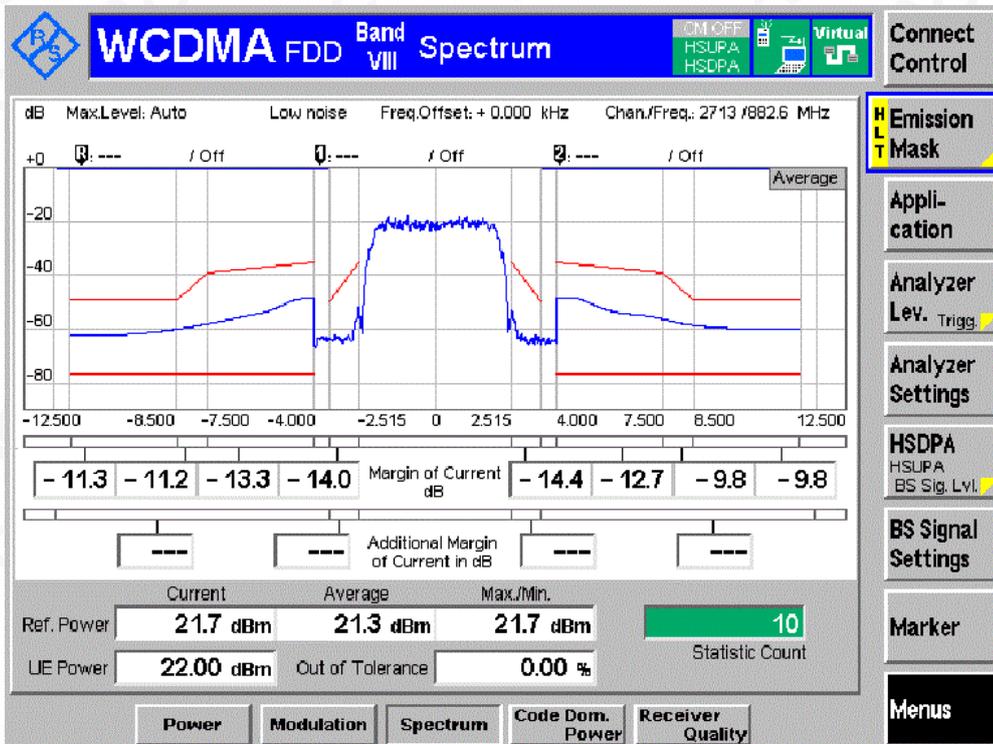
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Sub-test 2



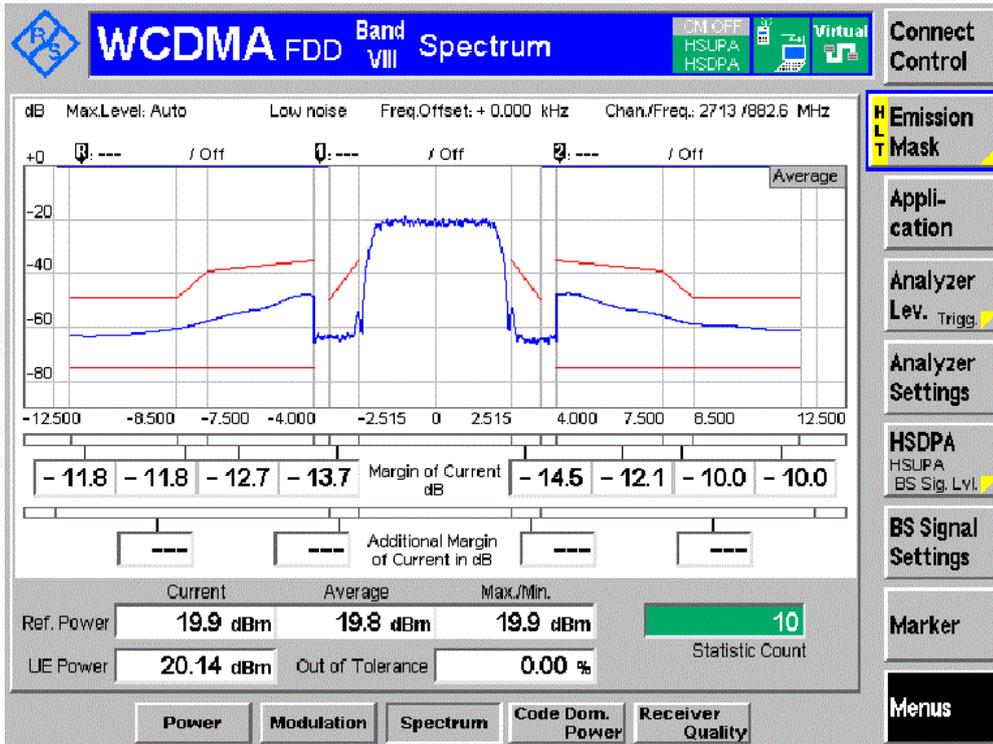
Sub-test 3



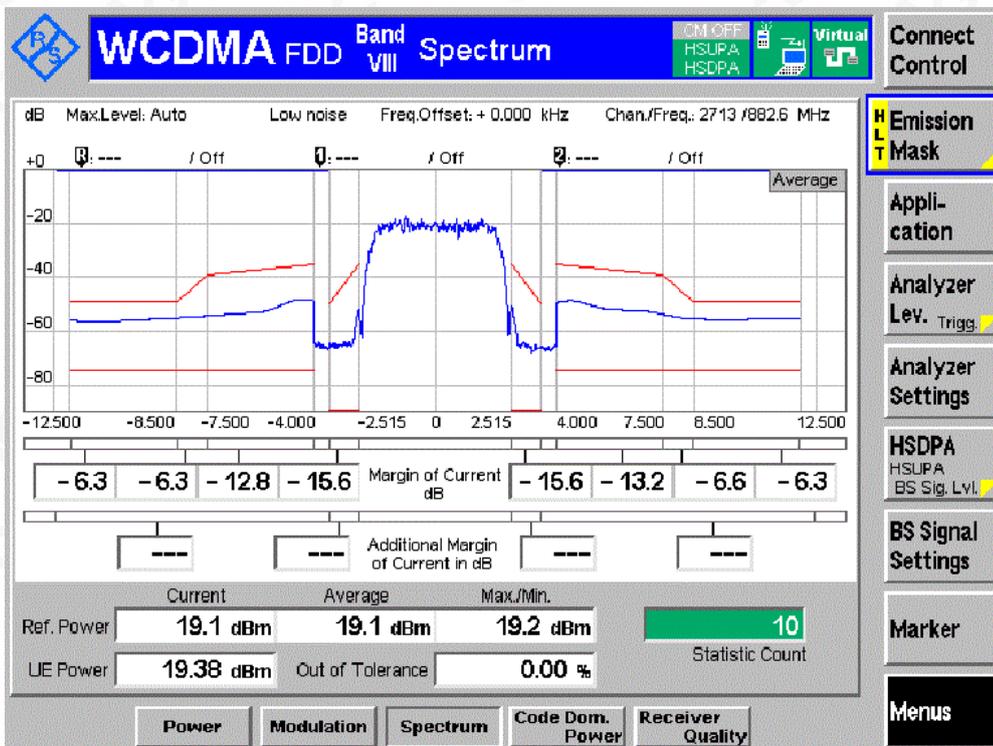
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Sub-test 4



Sub-test 5

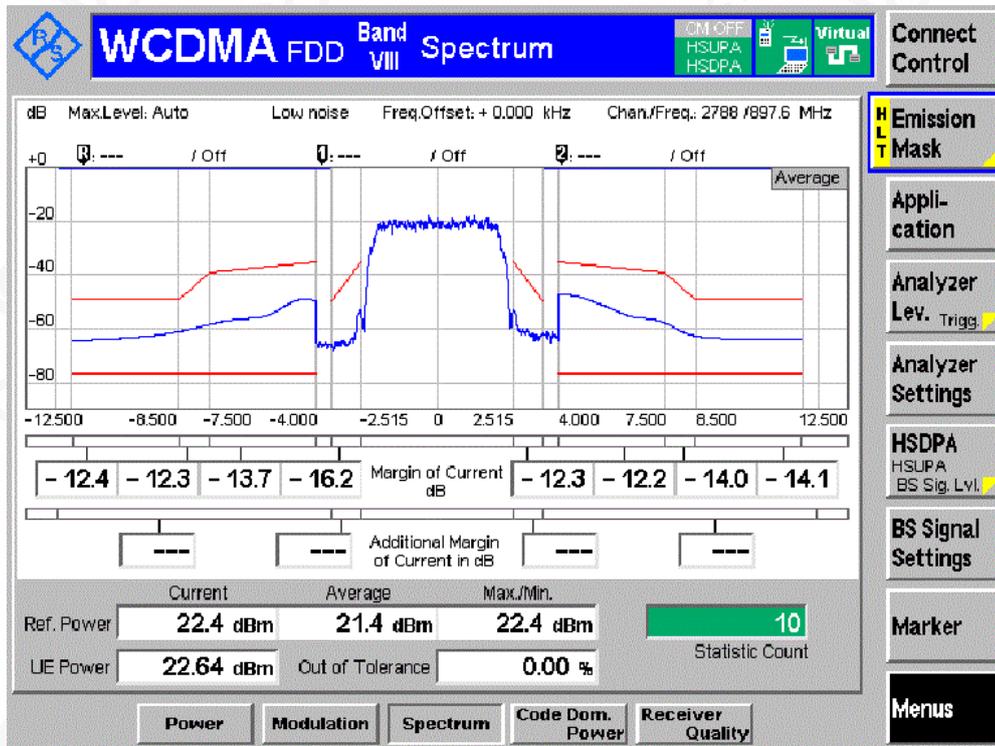


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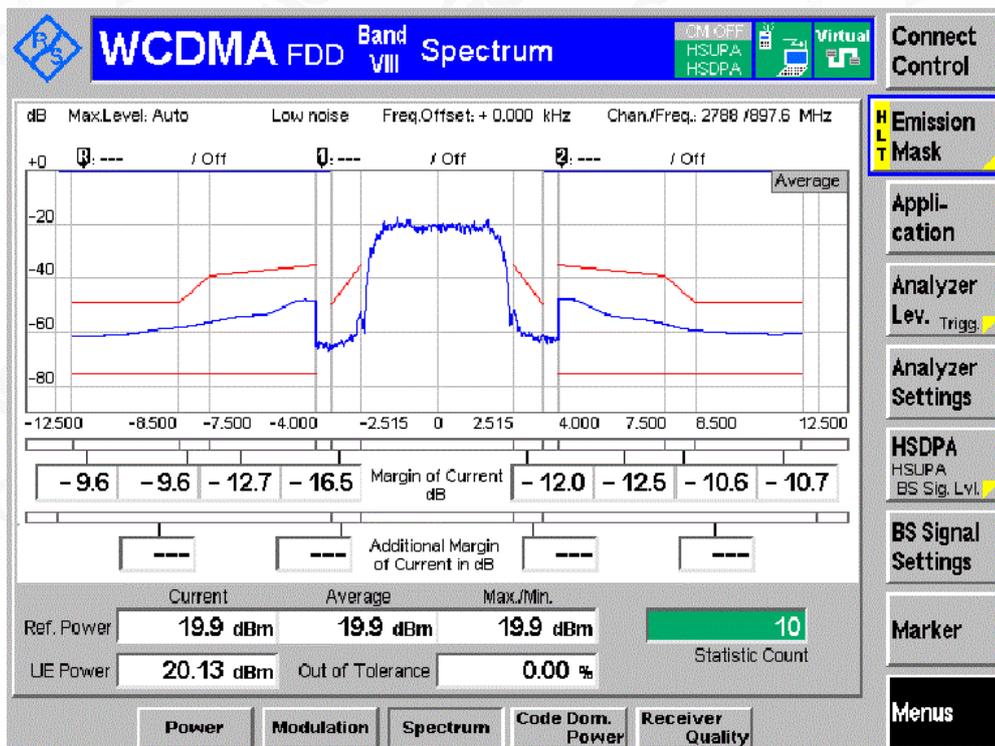
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**Channel MCH**

**Sub-test 1**



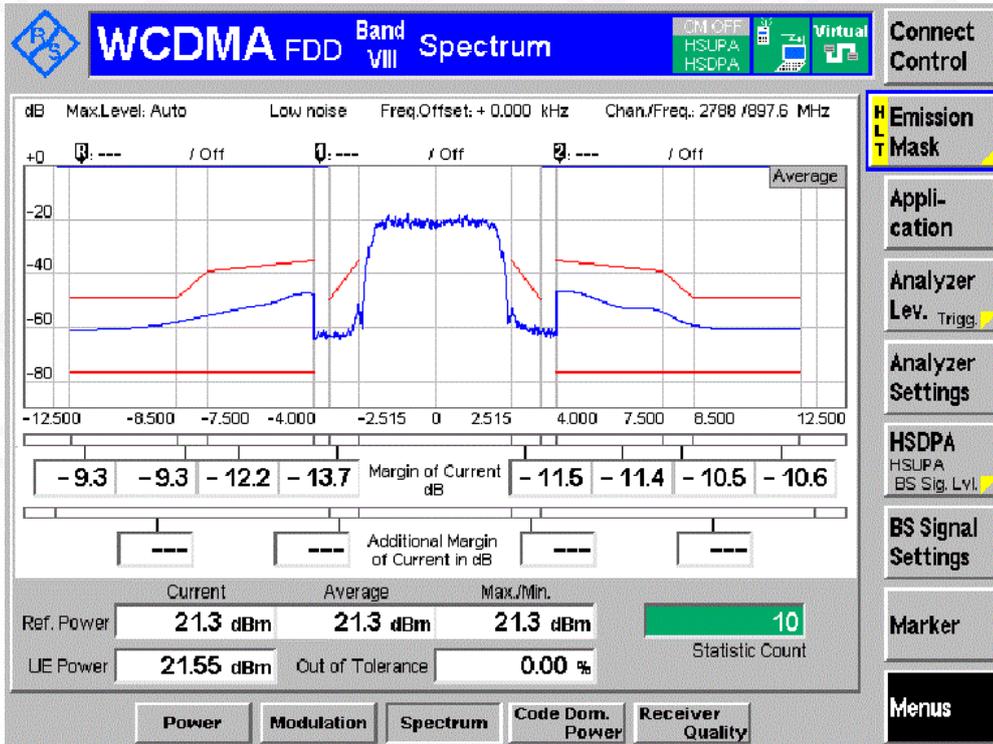
**Sub-test 2**



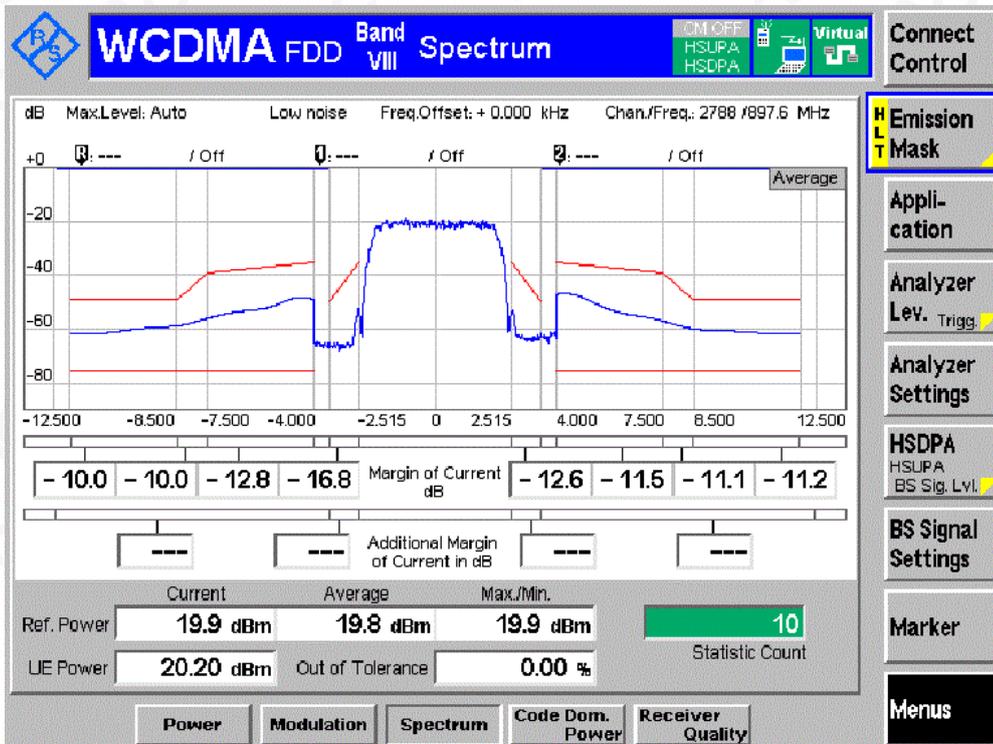
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Sub-test 3



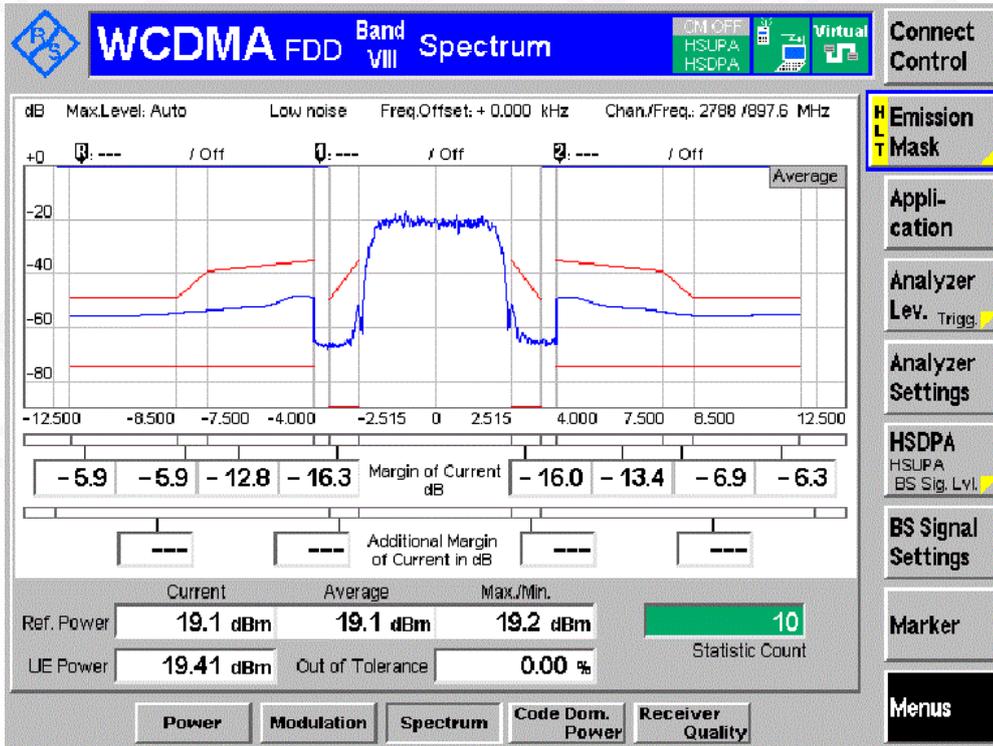
Sub-test 4



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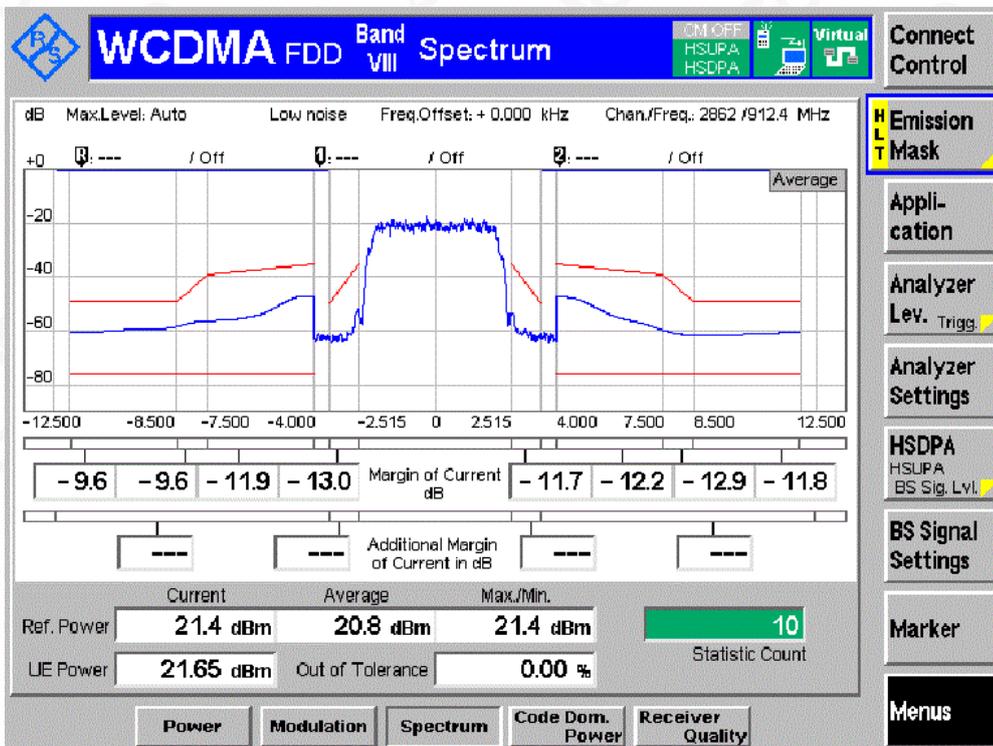
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Sub-test 5

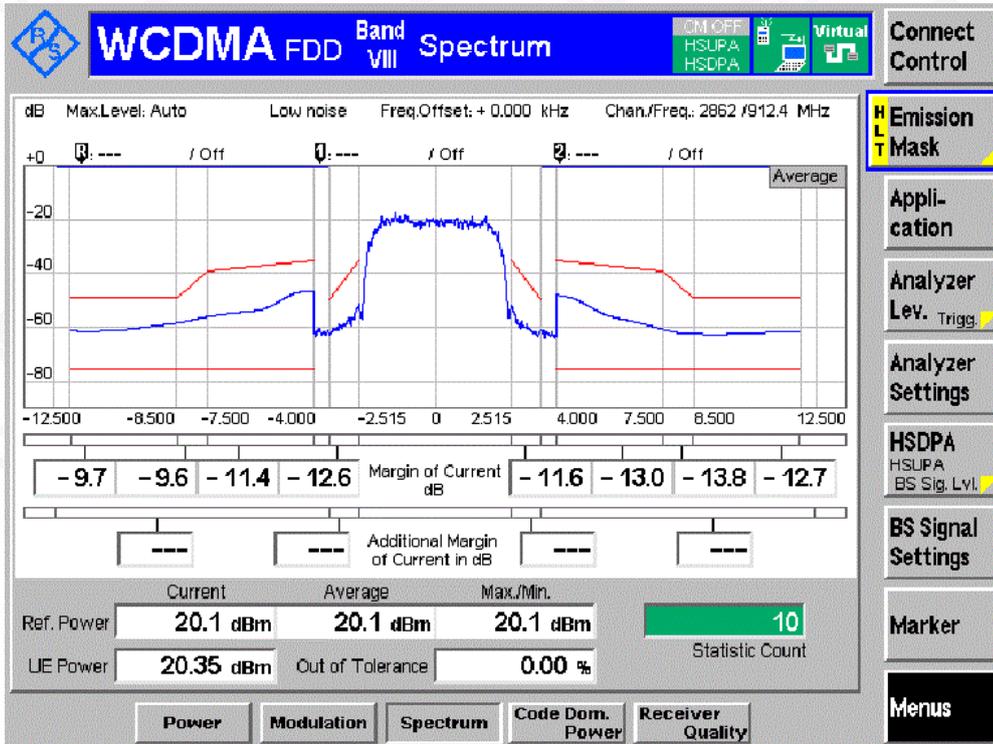


Channel HCH

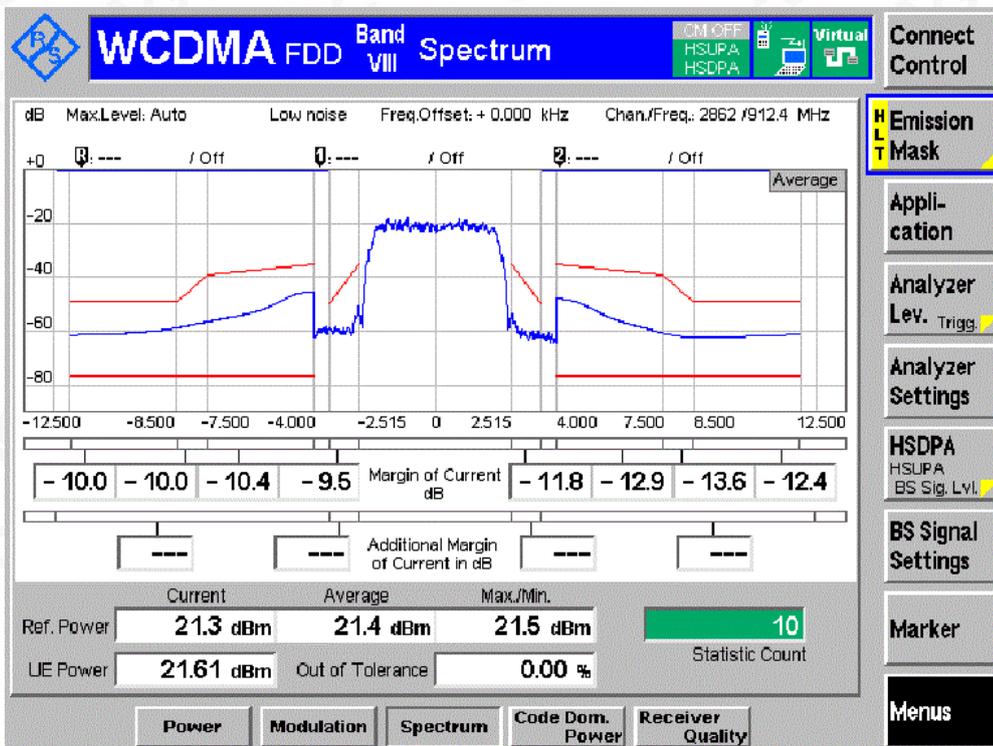
Sub-test 1



Sub-test 2



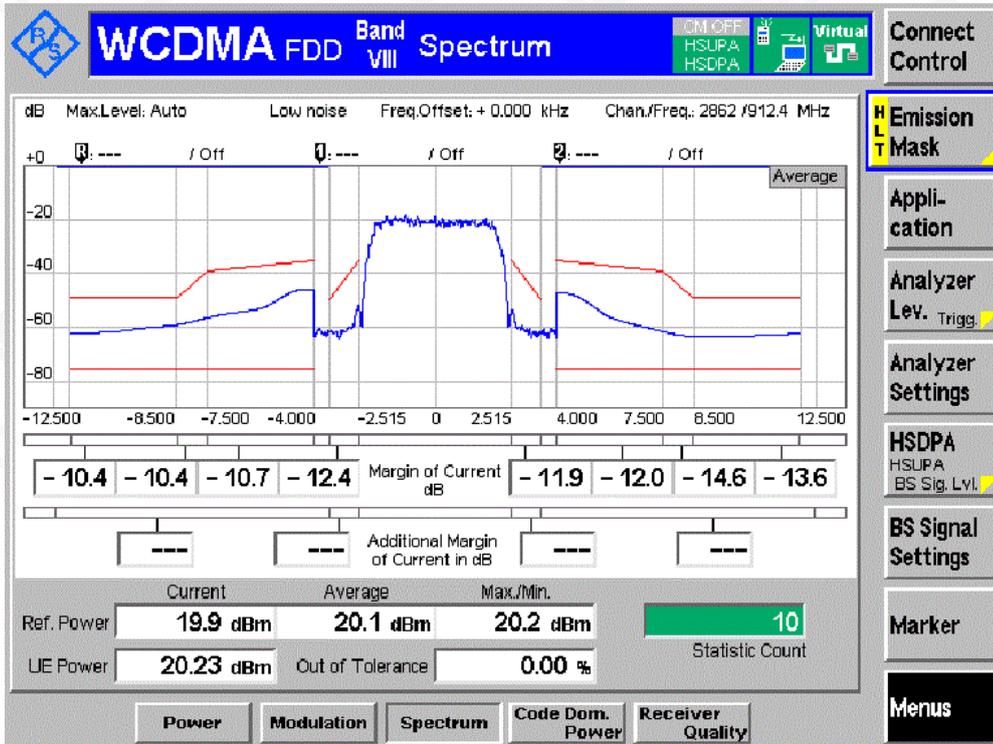
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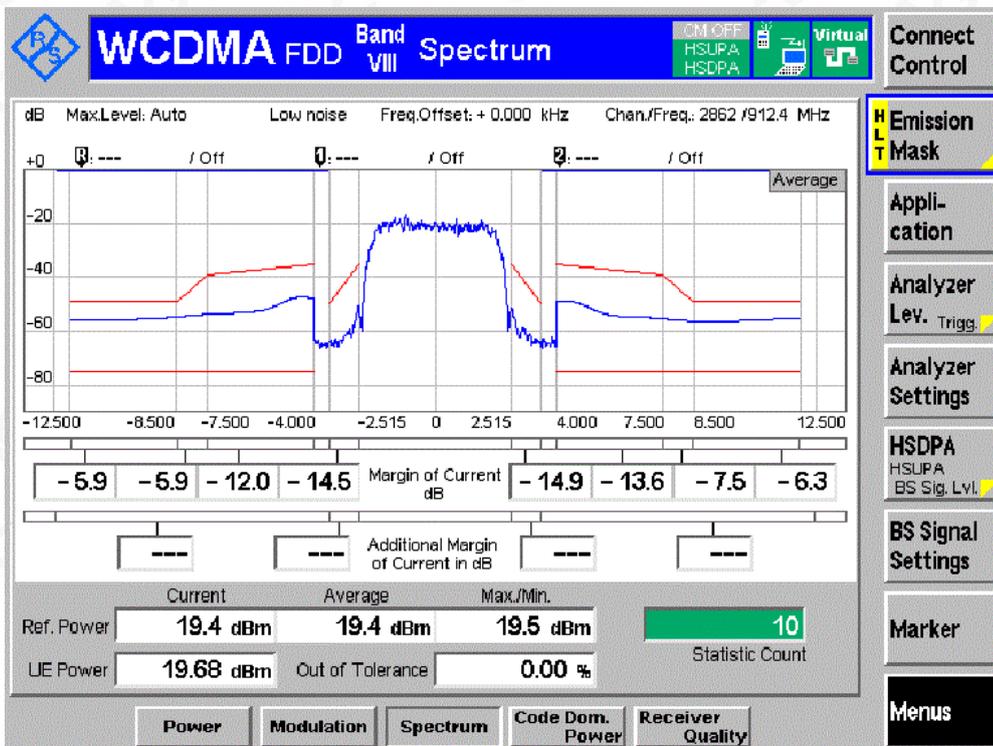
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Sub-test 4



Sub-test 5



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

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

| Operating Band | Test Conditions | Test Channel | Sub-test | UE Channel | Measurement Data(dBm) | Limit (dBm) | Result |
|----------------|-----------------|--------------|----------|------------|-----------------------|-------------|--------|
| Band I         | TNVN            | LCH          | 1        | +5MHz      | -44.07                | -32.2       | Pass   |
|                |                 |              |          | -5 MHz     | -44.89                | -32.2       | Pass   |
|                |                 |              |          | -10MHz     | -52.81                | -42.2       | Pass   |
|                |                 |              |          | +10MHz     | -52.95                | -42.2       | Pass   |
|                |                 |              | 2        | +5MHz      | -41.72                | -32.2       | Pass   |
|                |                 |              |          | -5 MHz     | -42.60                | -32.2       | Pass   |
|                |                 |              |          | -10MHz     | -50.86                | -42.2       | Pass   |
|                |                 |              |          | +10MHz     | -50.37                | -42.2       | Pass   |
|                |                 |              | 3        | +5MHz      | -42.22                | -32.2       | Pass   |
|                |                 |              |          | -5 MHz     | -43.38                | -32.2       | Pass   |
|                |                 |              |          | -10MHz     | -50.52                | -42.2       | Pass   |
|                |                 |              |          | +10MHz     | -49.98                | -42.2       | Pass   |
|                |                 |              | 4        | +5MHz      | -40.71                | -32.2       | Pass   |
|                |                 |              |          | -5 MHz     | -41.85                | -32.2       | Pass   |
|                |                 |              |          | -10MHz     | -50.80                | -42.2       | Pass   |
|                |                 |              |          | +10MHz     | -50.78                | -42.2       | Pass   |
|                |                 | 5            | +5MHz    | -42.94     | -32.2                 | Pass        |        |
|                |                 |              | -5 MHz   | -43.44     | -32.2                 | Pass        |        |
|                |                 |              | -10MHz   | -49.48     | -42.2                 | Pass        |        |
|                |                 |              | +10MHz   | -49.33     | -42.2                 | Pass        |        |
|                |                 | MCH          | 1        | +5MHz      | -44.27                | -32.2       | Pass   |
|                |                 |              |          | -5 MHz     | -43.89                | -32.2       | Pass   |
|                |                 |              |          | -10MHz     | -51.21                | -42.2       | Pass   |
|                |                 |              |          | +10MHz     | -51.10                | -42.2       | Pass   |



|   |        |        |     |        |        |        |       |      |
|---|--------|--------|-----|--------|--------|--------|-------|------|
|   |        |        | HCH | 2      | +5MHz  | -42.45 | -32.2 | Pass |
|   |        |        |     |        | -5 MHz | -42.57 | -32.2 | Pass |
|   |        |        |     |        | -10MHz | -49.53 | -42.2 | Pass |
|   |        |        |     |        | +10MHz | -49.91 | -42.2 | Pass |
|   |        |        |     | 3      | +5MHz  | -42.90 | -32.2 | Pass |
|   |        |        |     |        | -5 MHz | -42.74 | -32.2 | Pass |
|   |        |        |     |        | -10MHz | -49.16 | -42.2 | Pass |
|   |        |        |     |        | +10MHz | -49.36 | -42.2 | Pass |
|   |        |        |     | 4      | +5MHz  | -41.77 | -32.2 | Pass |
|   |        |        |     |        | -5 MHz | -41.93 | -32.2 | Pass |
|   |        |        |     |        | -10MHz | -49.82 | -42.2 | Pass |
|   |        |        |     |        | +10MHz | -50.40 | -42.2 | Pass |
|   |        |        | 5   | +5MHz  | -42.49 | -32.2  | Pass  |      |
|   |        |        |     | -5 MHz | -42.38 | -32.2  | Pass  |      |
|   |        |        |     | -10MHz | -49.45 | -42.2  | Pass  |      |
|   |        |        |     | +10MHz | -49.75 | -42.2  | Pass  |      |
|   |        |        | HCH | 1      | +5MHz  | -41.25 | -32.2 | Pass |
|   |        |        |     |        | -5 MHz | -40.82 | -32.2 | Pass |
|   |        |        |     |        | -10MHz | -50.74 | -42.2 | Pass |
|   |        |        |     |        | +10MHz | -51.78 | -42.2 | Pass |
| 2 | +5MHz  | -41.04 |     | -32.2  | Pass   |        |       |      |
|   | -5 MHz | -40.49 |     | -32.2  | Pass   |        |       |      |
|   | -10MHz | -48.91 |     | -42.2  | Pass   |        |       |      |
|   | +10MHz | -49.50 |     | -42.2  | Pass   |        |       |      |
| 3 | +5MHz  | -40.68 |     | -32.2  | Pass   |        |       |      |
|   | -5 MHz | -39.76 |     | -32.2  | Pass   |        |       |      |
|   | -10MHz | -48.37 |     | -42.2  | Pass   |        |       |      |
|   | +10MHz | -49.30 |     | -42.2  | Pass   |        |       |      |



|  |  |  |   |        |        |       |      |
|--|--|--|---|--------|--------|-------|------|
|  |  |  | 4 | +5MHz  | -39.08 | -32.2 | Pass |
|  |  |  |   | -5 MHz | -39.09 | -32.2 | Pass |
|  |  |  |   | -10MHz | -48.38 | -42.2 | Pass |
|  |  |  |   | +10MHz | -49.55 | -42.2 | Pass |
|  |  |  | 5 | +5MHz  | -40.41 | -32.2 | Pass |
|  |  |  |   | -5 MHz | -39.95 | -32.2 | Pass |
|  |  |  |   | -10MHz | -49.30 | -42.2 | Pass |
|  |  |  |   | +10MHz | -49.68 | -42.2 | Pass |

| Operating Band | Test Conditions | Test Channel | Sub-test | UE Channel | Measurement Data(dBm) | Limit (dBm) | Result |
|----------------|-----------------|--------------|----------|------------|-----------------------|-------------|--------|
| Band VIII      | TNVN            | LCH          | 1        | +5MHz      | -46.36                | -32.2       | Pass   |
|                |                 |              |          | -5 MHz     | -46.20                | -32.2       | Pass   |
|                |                 |              |          | -10MHz     | -54.10                | -42.2       | Pass   |
|                |                 |              |          | +10MHz     | -53.19                | -42.2       | Pass   |
|                |                 |              | 2        | +5MHz      | -44.76                | -32.2       | Pass   |
|                |                 |              |          | -5 MHz     | -44.98                | -32.2       | Pass   |
|                |                 |              |          | -10MHz     | -55.32                | -42.2       | Pass   |
|                |                 |              |          | +10MHz     | -53.96                | -42.2       | Pass   |
|                |                 |              | 3        | +5MHz      | -44.97                | -32.2       | Pass   |
|                |                 |              |          | -5 MHz     | -45.27                | -32.2       | Pass   |
|                |                 |              |          | -10MHz     | -55.88                | -42.2       | Pass   |
|                |                 |              |          | +10MHz     | -54.02                | -42.2       | Pass   |
|                |                 |              | 4        | +5MHz      | -44.23                | -32.2       | Pass   |
|                |                 |              |          | -5 MHz     | -44.77                | -32.2       | Pass   |
|                |                 |              |          | -10MHz     | -56.69                | -42.2       | Pass   |
|                |                 |              |          | +10MHz     | -54.35                | -42.2       | Pass   |
|                |                 |              | 5        | +5MHz      | -45.06                | -32.2       | Pass   |
|                |                 |              |          | -5 MHz     | -45.08                | -32.2       | Pass   |



|  |  |     |     |        |        |        |       |      |
|--|--|-----|-----|--------|--------|--------|-------|------|
|  |  | MCH |     | -10MHz | -50.47 | -42.2  | Pass  |      |
|  |  |     |     | +10MHz | -50.10 | -42.2  | Pass  |      |
|  |  |     | 1   | +5MHz  | -46.15 | -32.2  | Pass  |      |
|  |  |     |     | -5 MHz | -46.99 | -32.2  | Pass  |      |
|  |  |     |     | -10MHz | -56.21 | -42.2  | Pass  |      |
|  |  |     |     | +10MHz | -56.96 | -42.2  | Pass  |      |
|  |  |     | 2   | +5MHz  | -44.32 | -32.2  | Pass  |      |
|  |  |     |     | -5 MHz | -45.03 | -32.2  | Pass  |      |
|  |  |     |     | -10MHz | -54.69 | -42.2  | Pass  |      |
|  |  |     |     | +10MHz | -55.01 | -42.2  | Pass  |      |
|  |  |     | 3   | +5MHz  | -44.52 | -32.2  | Pass  |      |
|  |  |     |     | -5 MHz | -45.71 | -32.2  | Pass  |      |
|  |  |     |     | -10MHz | -53.89 | -42.2  | Pass  |      |
|  |  |     |     | +10MHz | -54.16 | -42.2  | Pass  |      |
|  |  |     | 4   | +5MHz  | -44.04 | -32.2  | Pass  |      |
|  |  |     |     | -5 MHz | -45.24 | -32.2  | Pass  |      |
|  |  |     |     | -10MHz | -54.96 | -42.2  | Pass  |      |
|  |  |     |     | +10MHz | -55.55 | -42.2  | Pass  |      |
|  |  |     | 5   | +5MHz  | -45.29 | -32.2  | Pass  |      |
|  |  |     |     | -5 MHz | -45.31 | -32.2  | Pass  |      |
|  |  |     |     | -10MHz | -50.21 | -42.2  | Pass  |      |
|  |  |     |     | +10MHz | -50.34 | -42.2  | Pass  |      |
|  |  |     | HCH | 1      | +5MHz  | -45.04 | -32.2 | Pass |
|  |  |     |     |        | -5 MHz | -43.94 | -32.2 | Pass |
|  |  |     |     |        | -10MHz | -57.14 | -42.2 | Pass |
|  |  |     |     |        | +10MHz | -59.26 | -42.2 | Pass |
|  |  |     |     | 2      | +5MHz  | -44.96 | -32.2 | Pass |
|  |  |     |     |        | -5 MHz | -43.45 | -32.2 | Pass |



|  |  |   |  |        |        |       |      |
|--|--|---|--|--------|--------|-------|------|
|  |  |   |  | -10MHz | -54.83 | -42.2 | Pass |
|  |  |   |  | +10MHz | -56.97 | -42.2 | Pass |
|  |  | 3 |  | +5MHz  | -44.56 | -32.2 | Pass |
|  |  |   |  | -5 MHz | -42.07 | -32.2 | Pass |
|  |  |   |  | -10MHz | -54.92 | -42.2 | Pass |
|  |  |   |  | +10MHz | -56.70 | -42.2 | Pass |
|  |  | 4 |  | +5MHz  | -44.44 | -32.2 | Pass |
|  |  |   |  | -5 MHz | -42.99 | -32.2 | Pass |
|  |  |   |  | -10MHz | -55.34 | -42.2 | Pass |
|  |  |   |  | +10MHz | -57.82 | -42.2 | Pass |
|  |  | 5 |  | +5MHz  | -45.33 | -32.2 | Pass |
|  |  |   |  | -5 MHz | -44.37 | -32.2 | Pass |
|  |  |   |  | -10MHz | -50.25 | -42.2 | Pass |
|  |  |   |  | +10MHz | -50.61 | -42.2 | Pass |

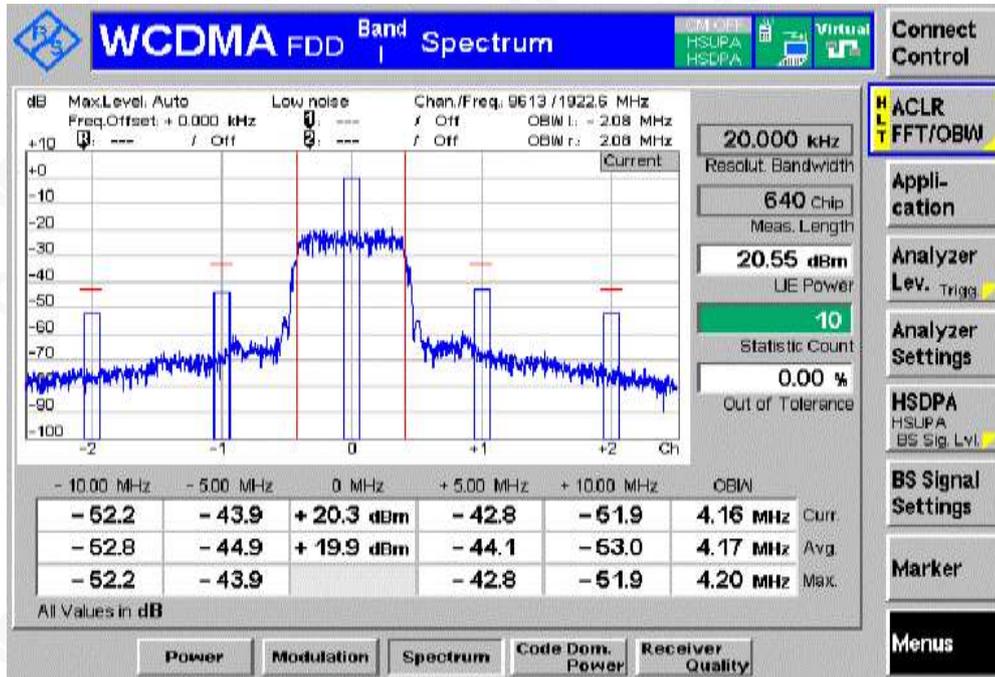


**BAND I**

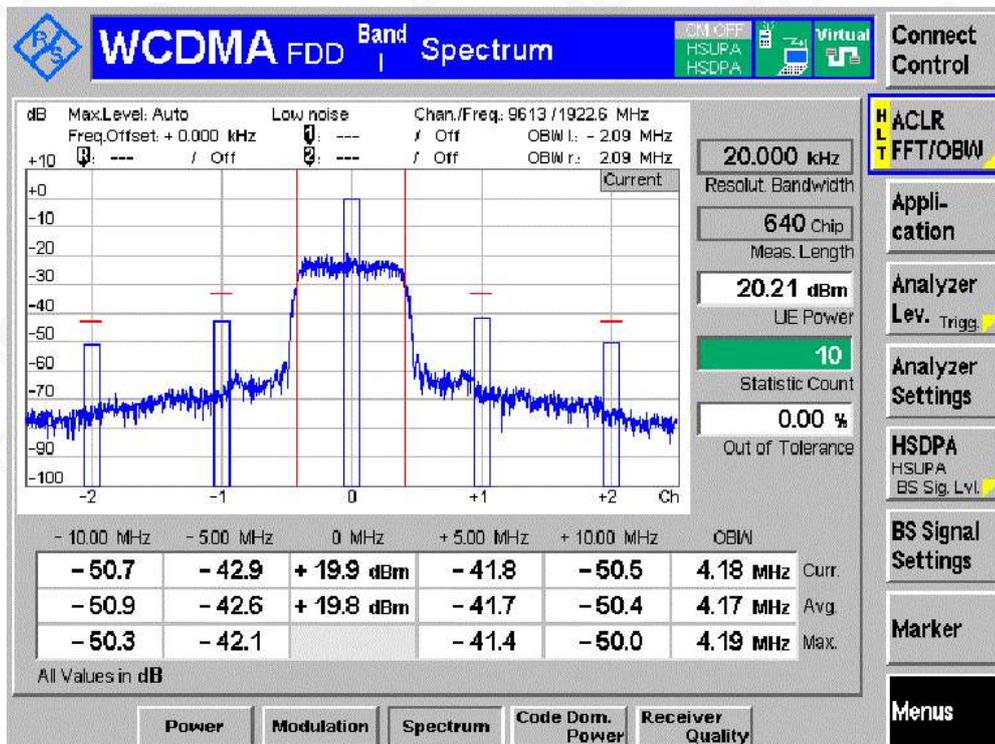
**TNPN**

**Channel LCH**

**Sub-test 1**



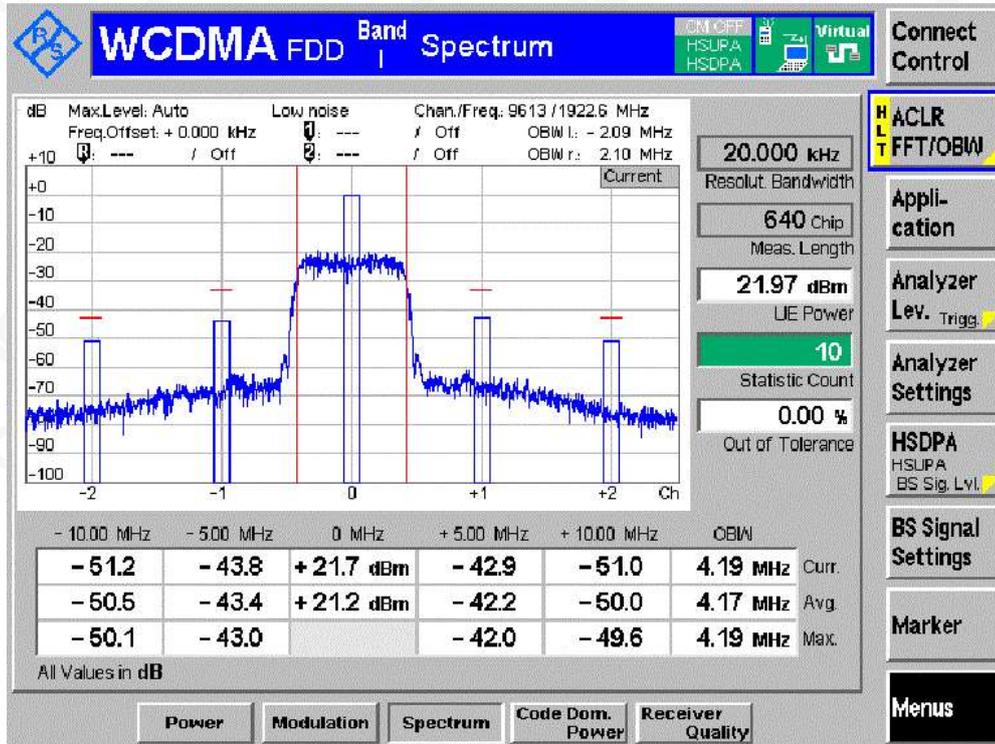
**Sub-test 2**



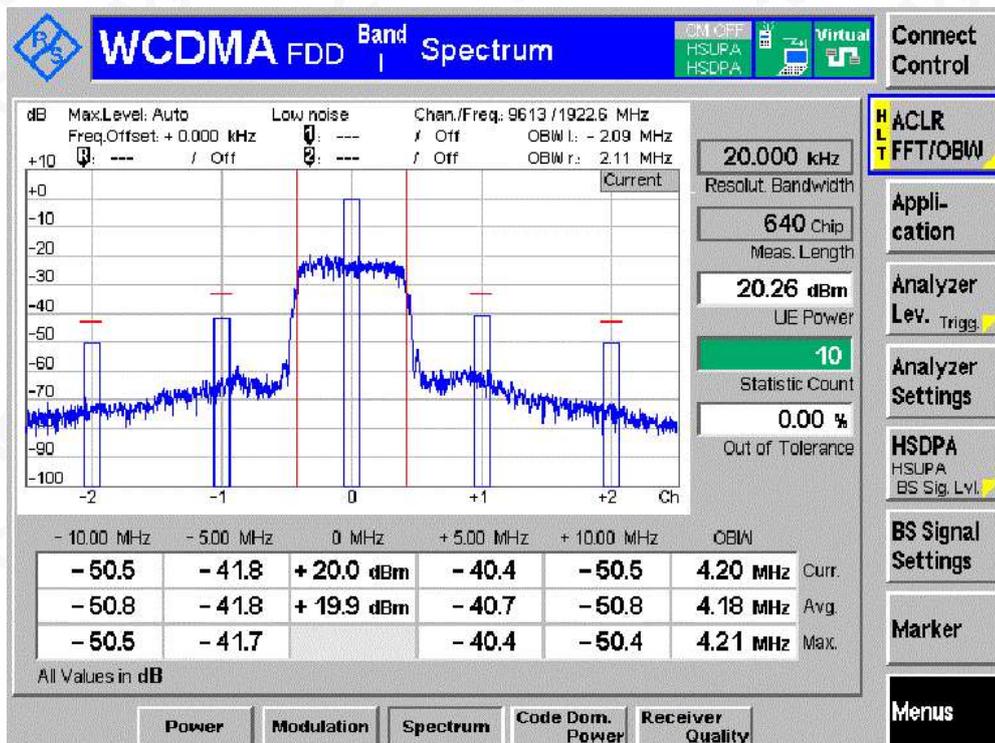
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Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China  
Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118

Sub-test 3



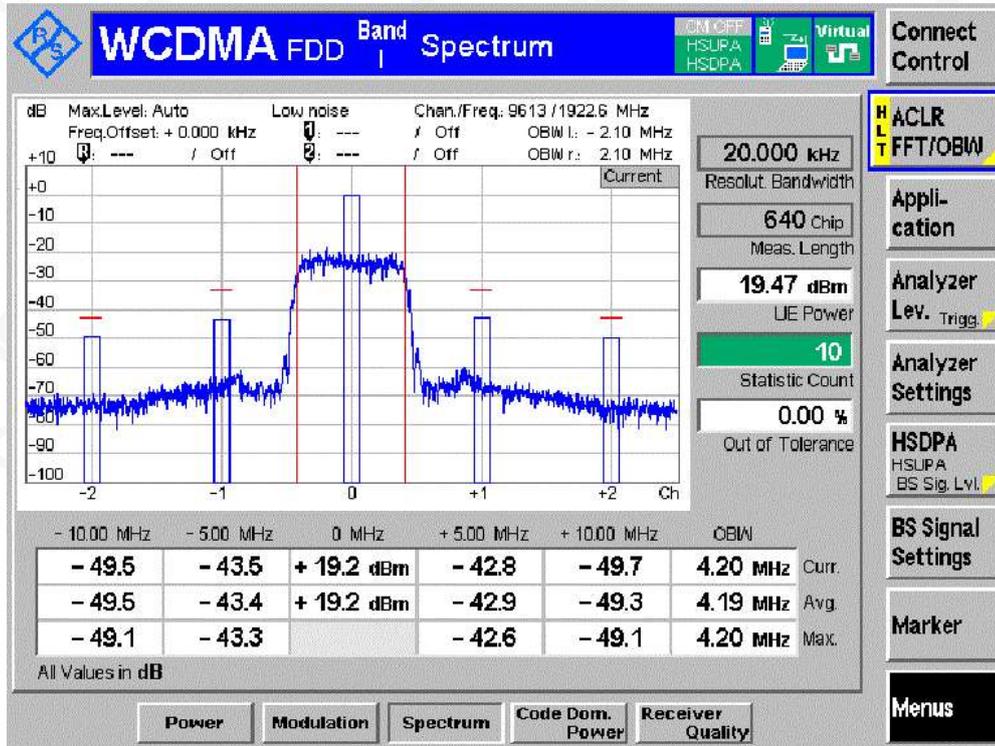
Sub-test 4



Attestation of Global Compliance

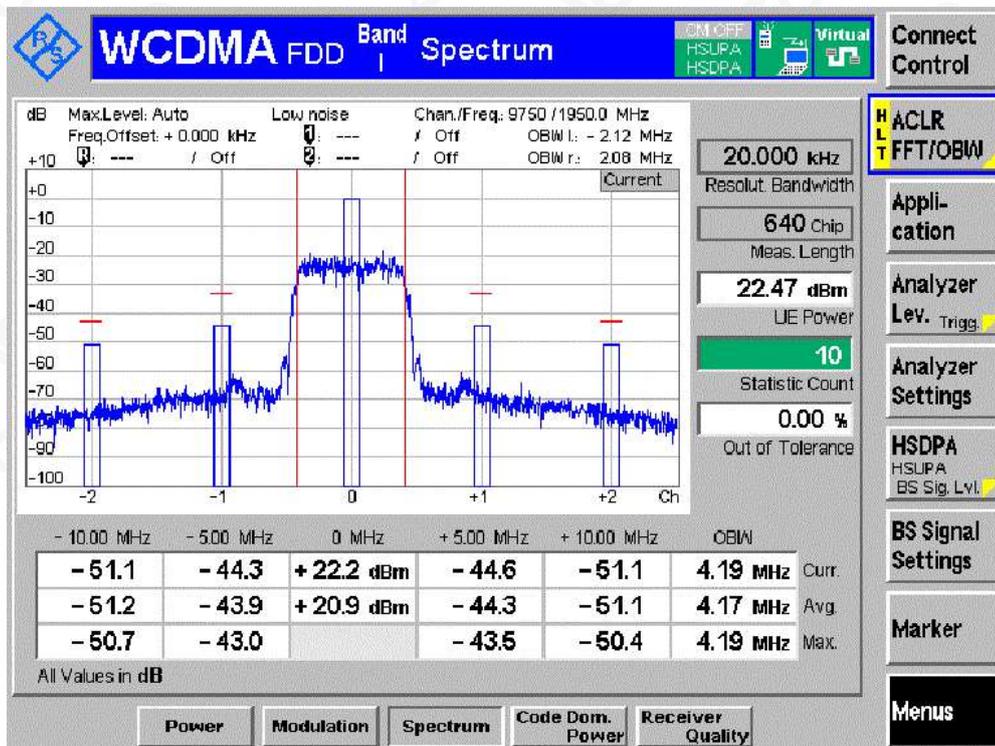
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Sub-test 5

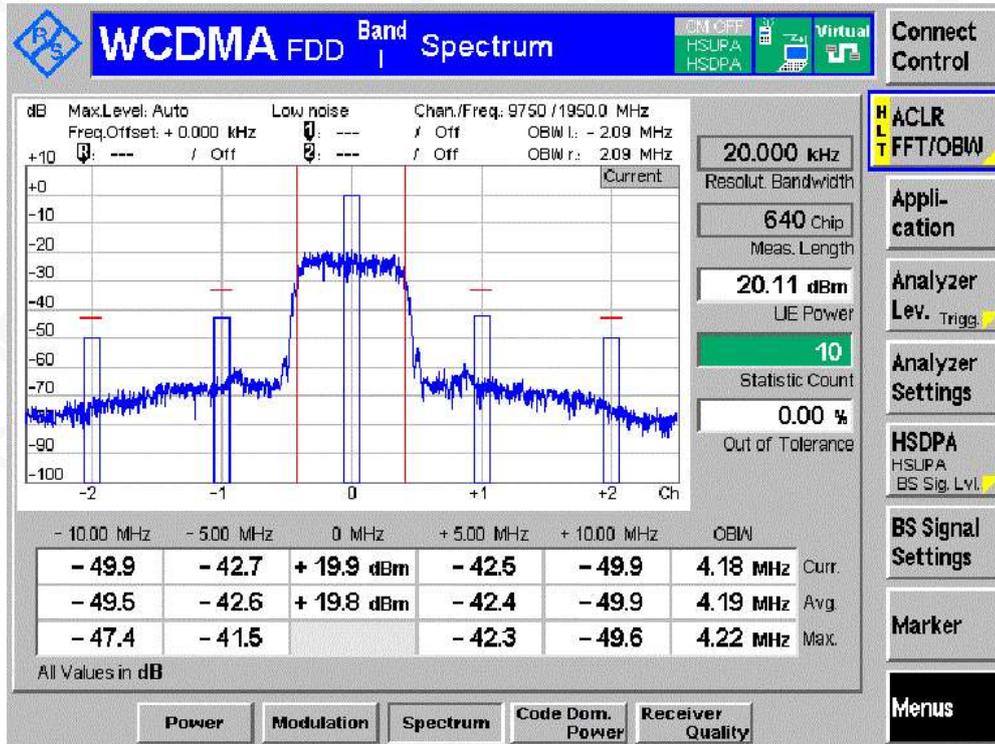


Channel MCH

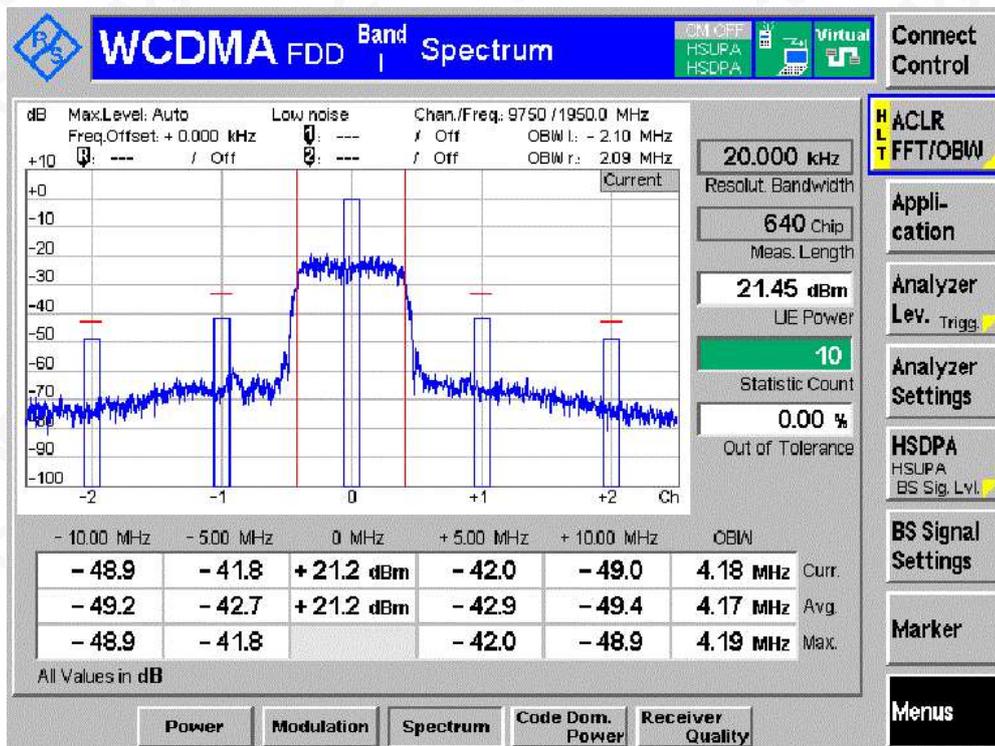
Sub-test 1



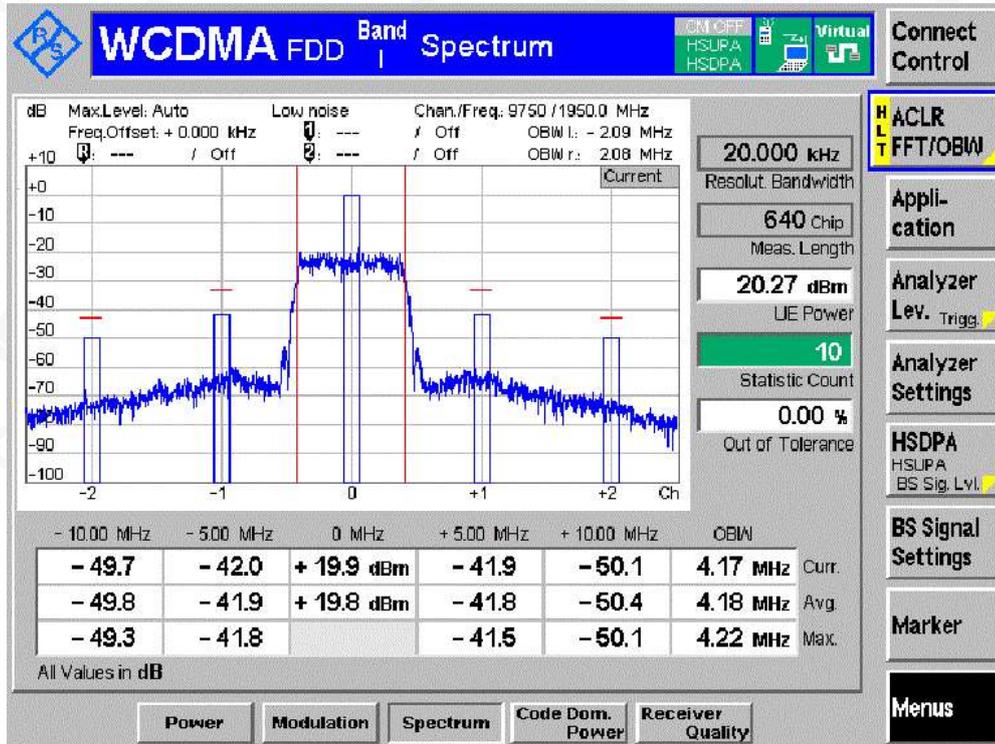
Sub-test 2



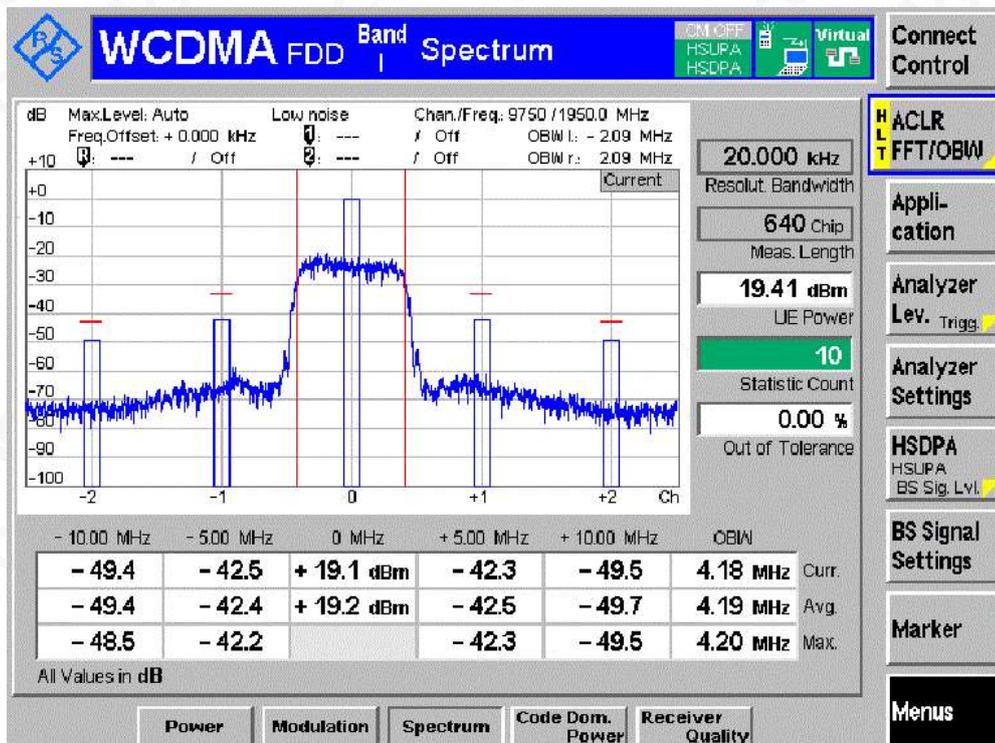
Sub-test 3



Sub-test 4



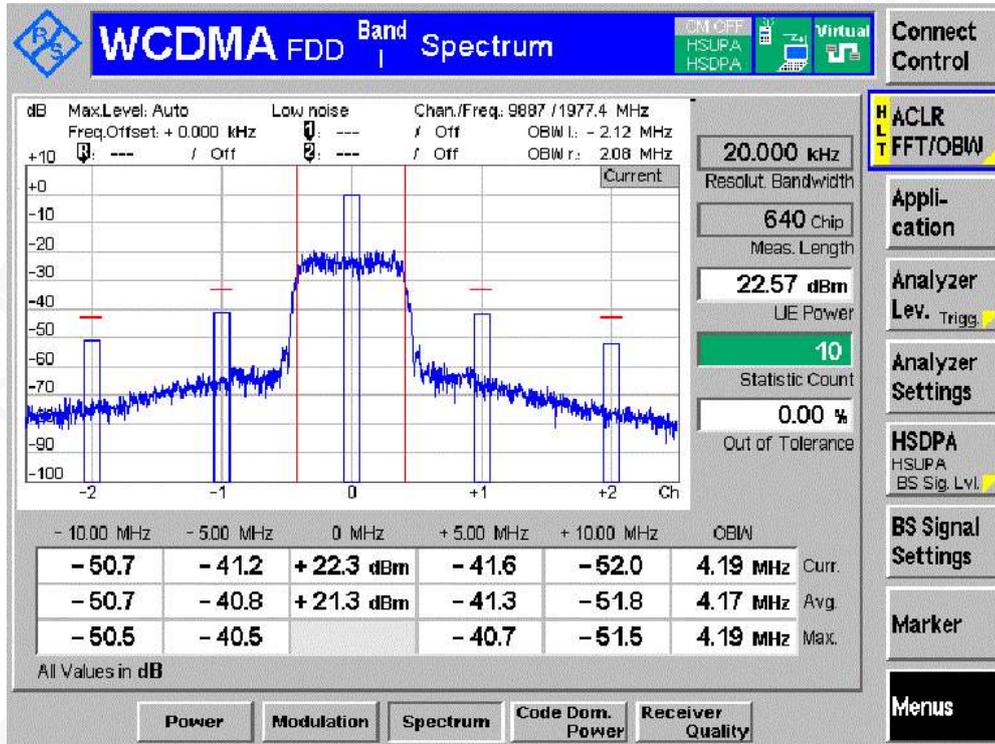
Sub-test 5



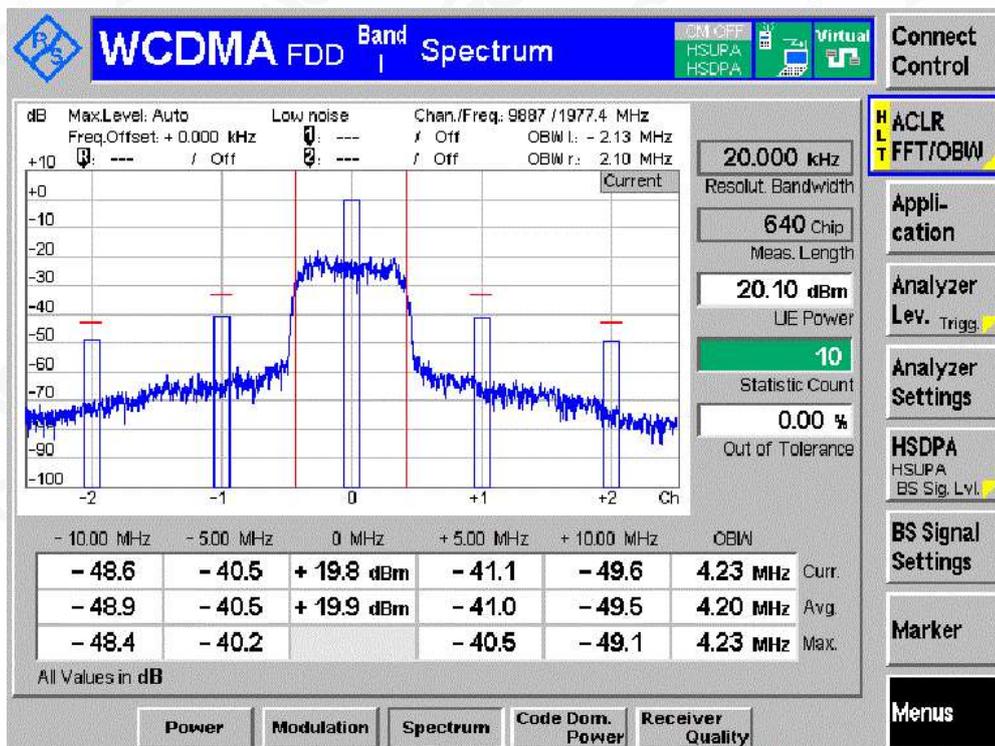
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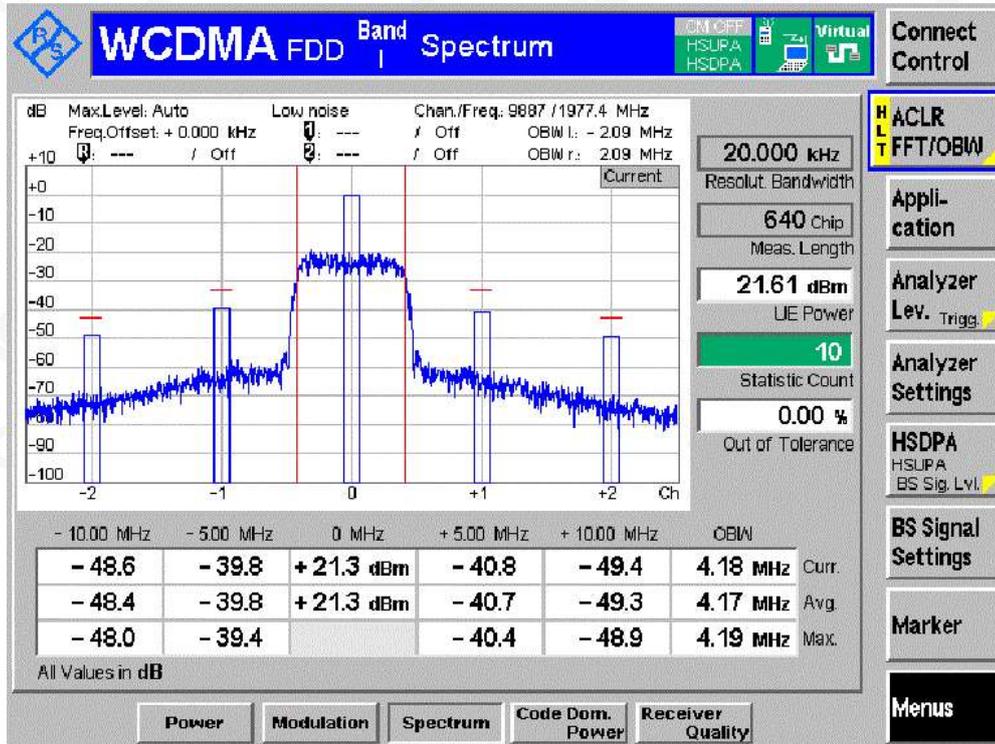
Channel HCH  
Sub-test 1



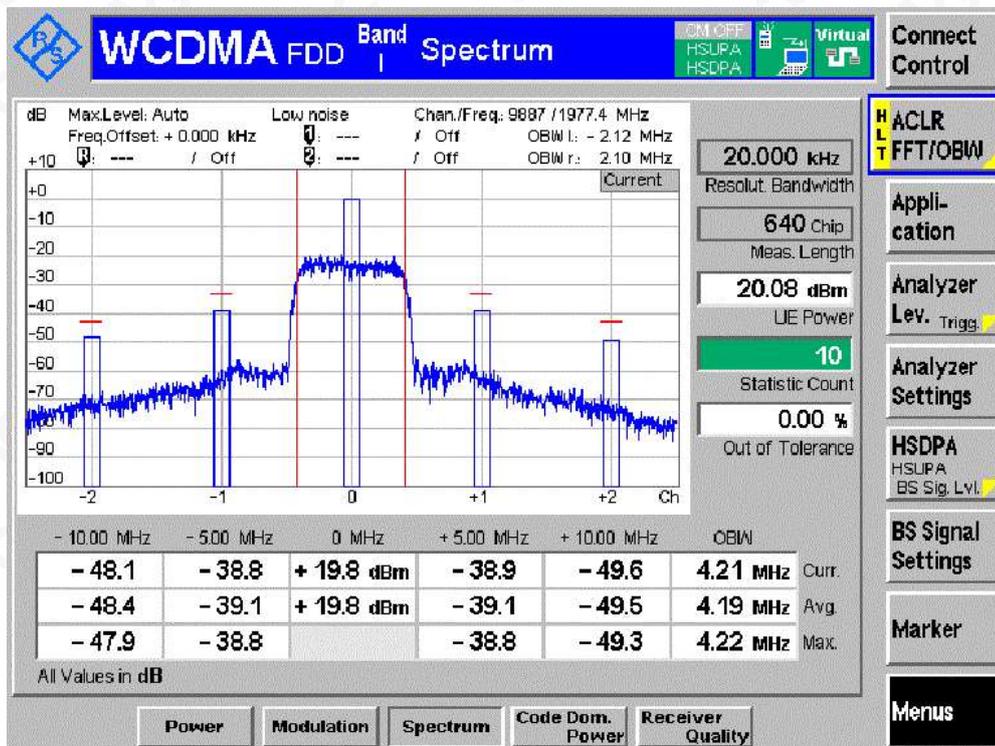
Sub-test 2



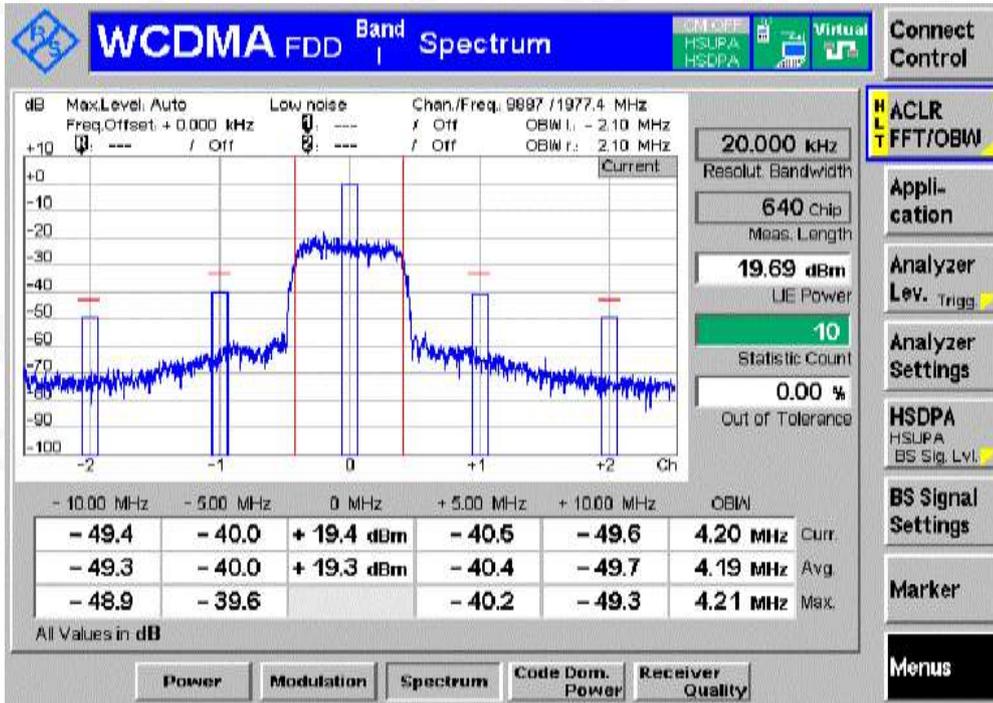
Sub-test 3



Sub-test 4



Sub-test 5

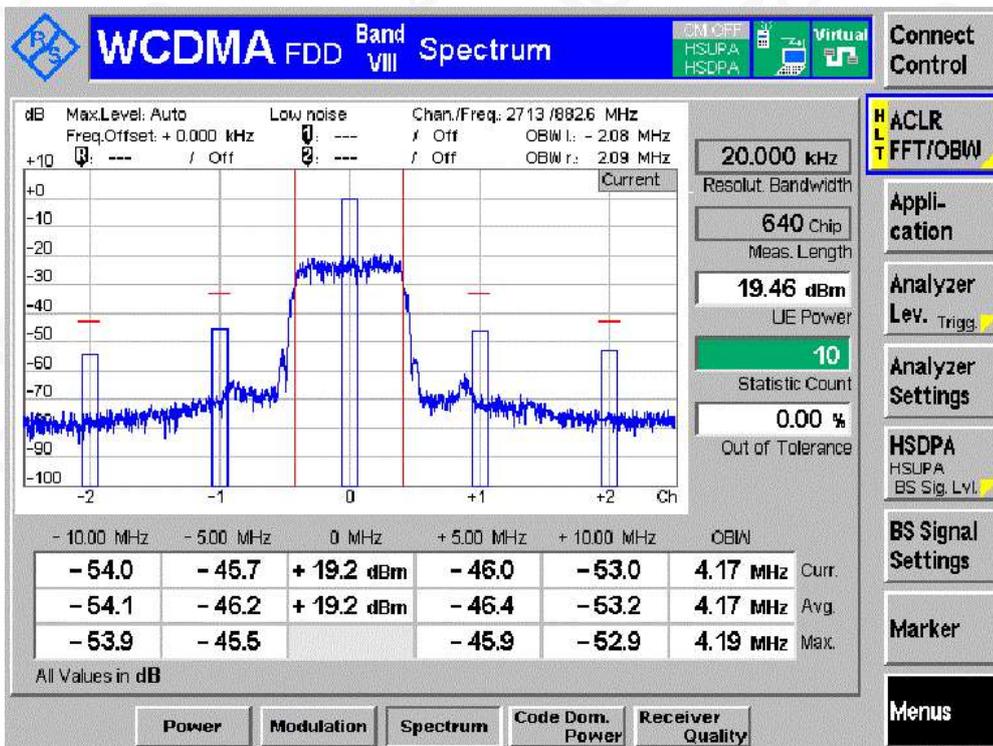


BAND VIII

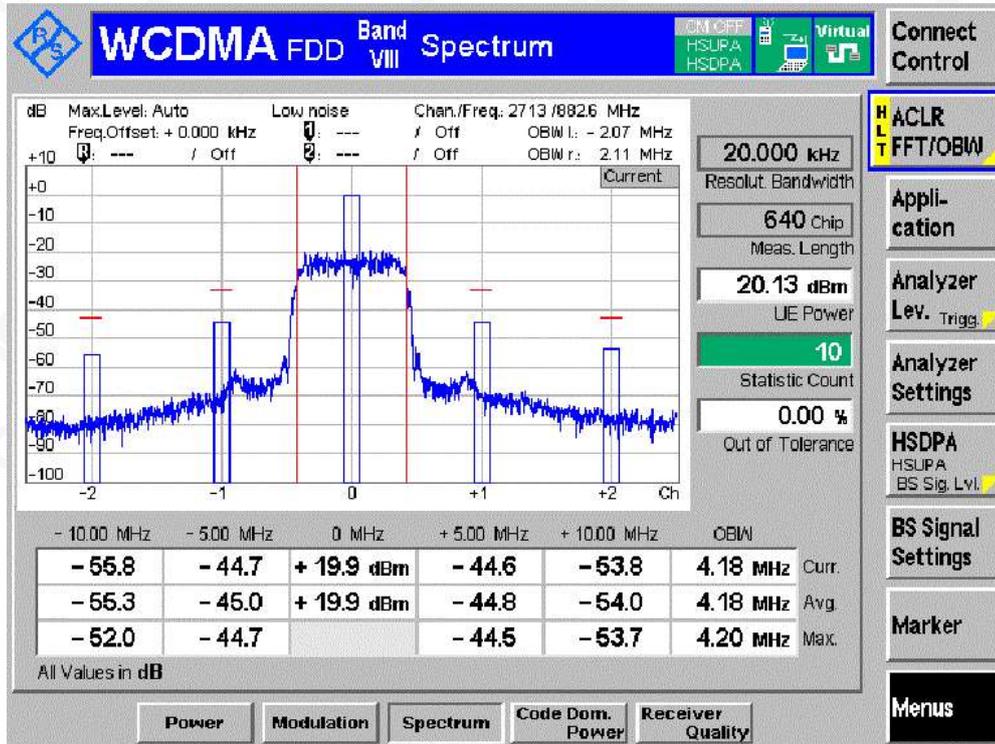
TNVN

Channel LCH

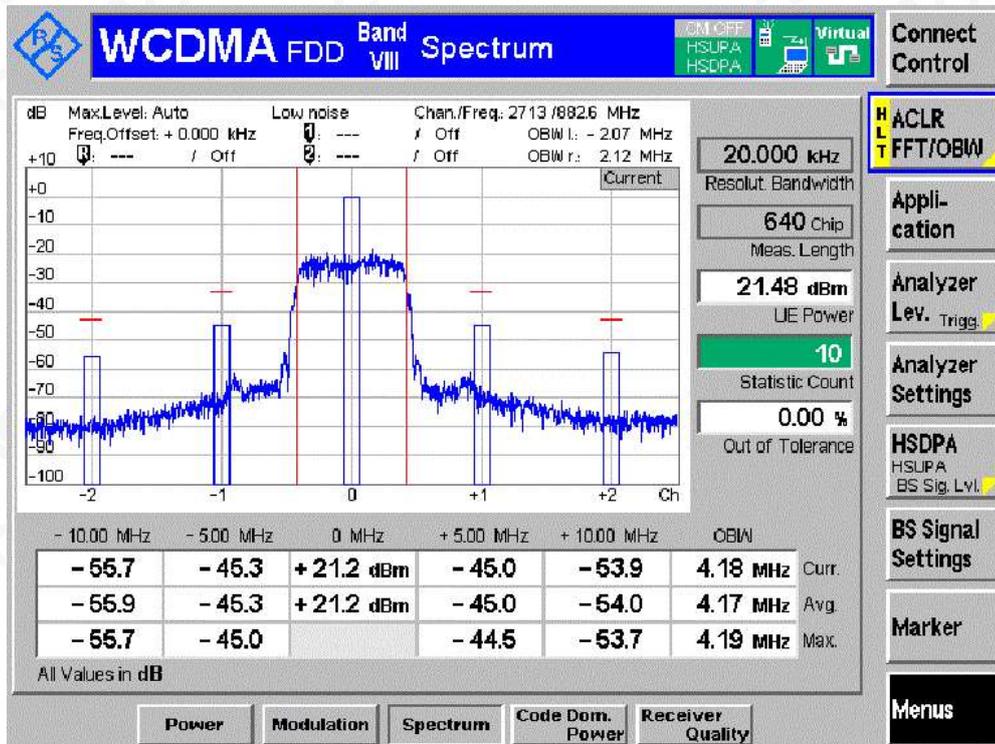
Sub-test 1



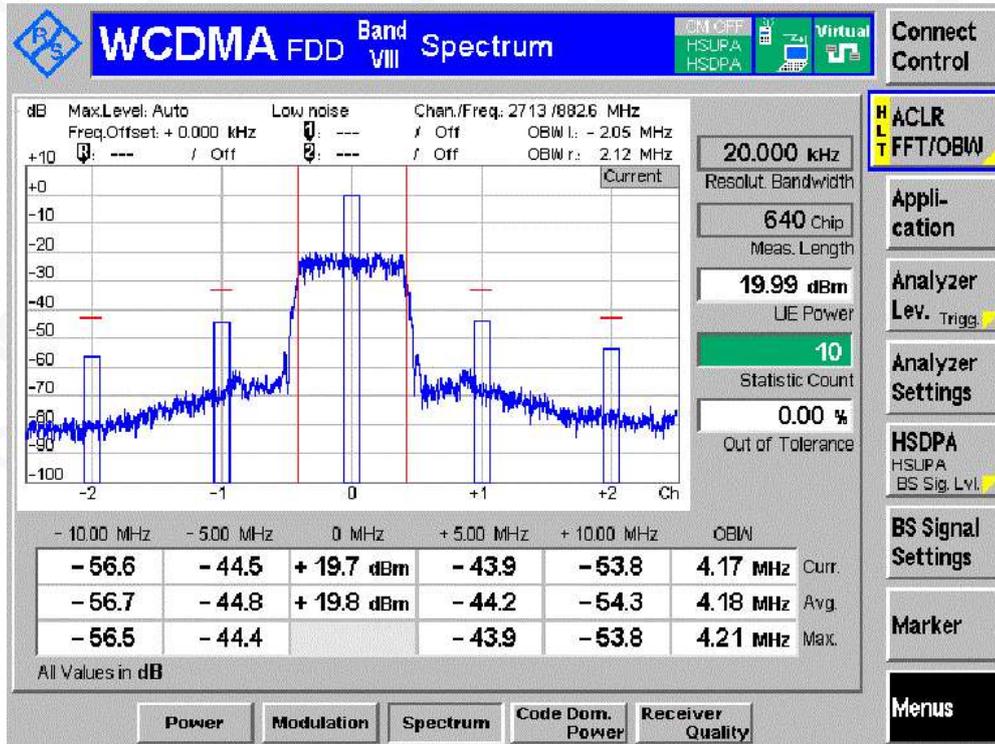
Sub-test 2



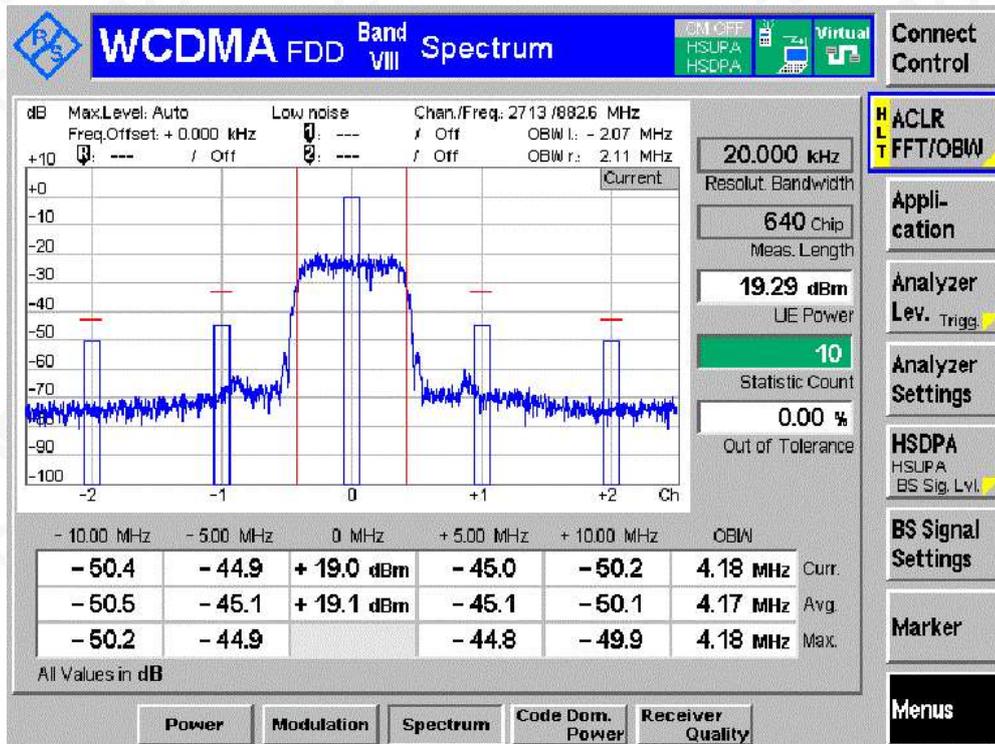
Sub-test 3



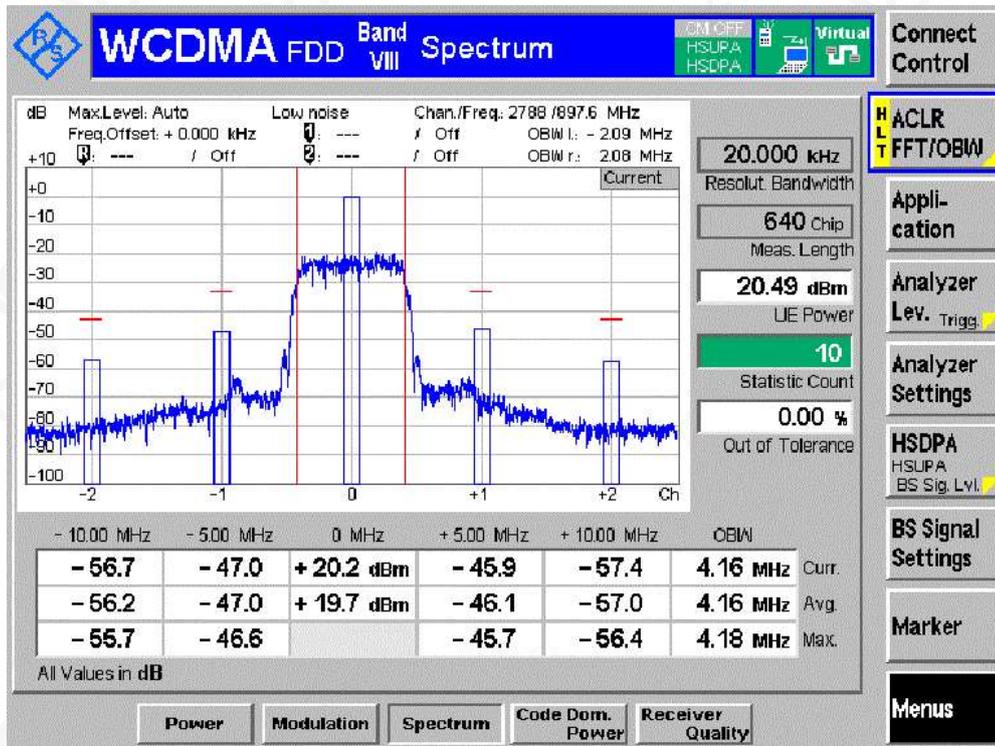
Sub-test 4



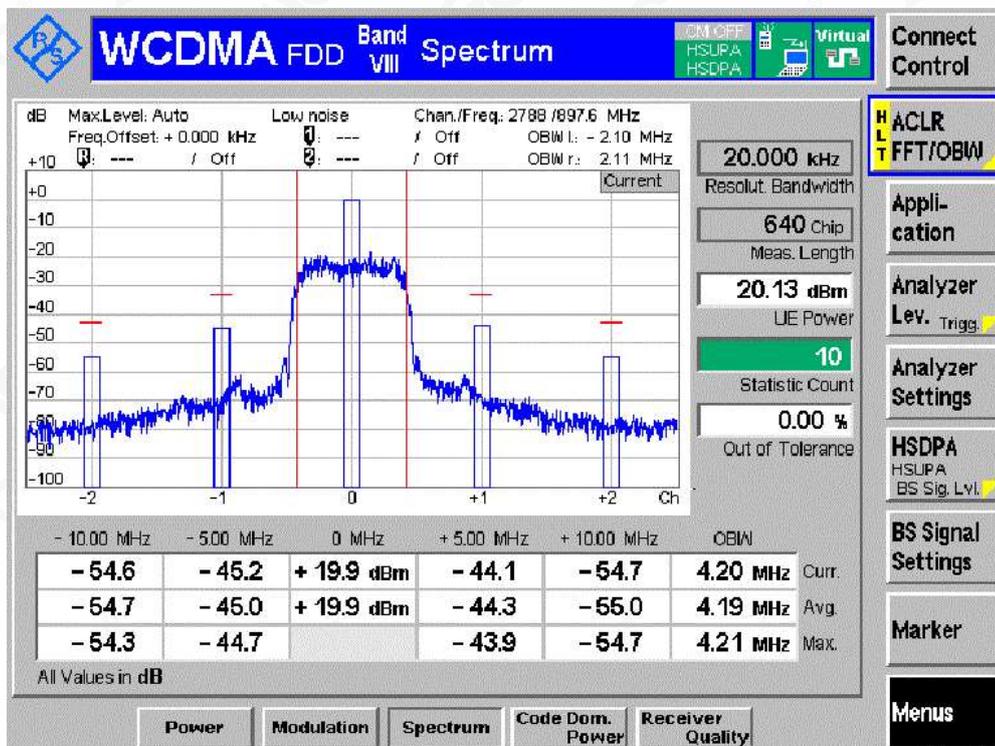
Sub-test 5



Channel MCH  
Sub-test 1



Sub-test 2



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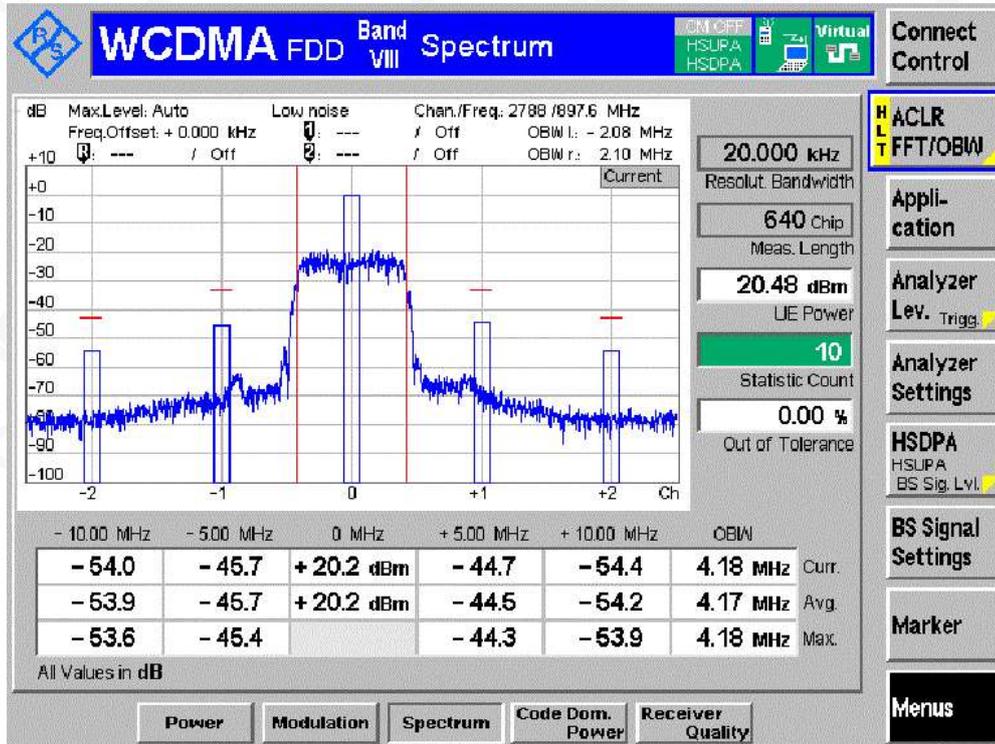
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Tel: +86-755 2523 4088

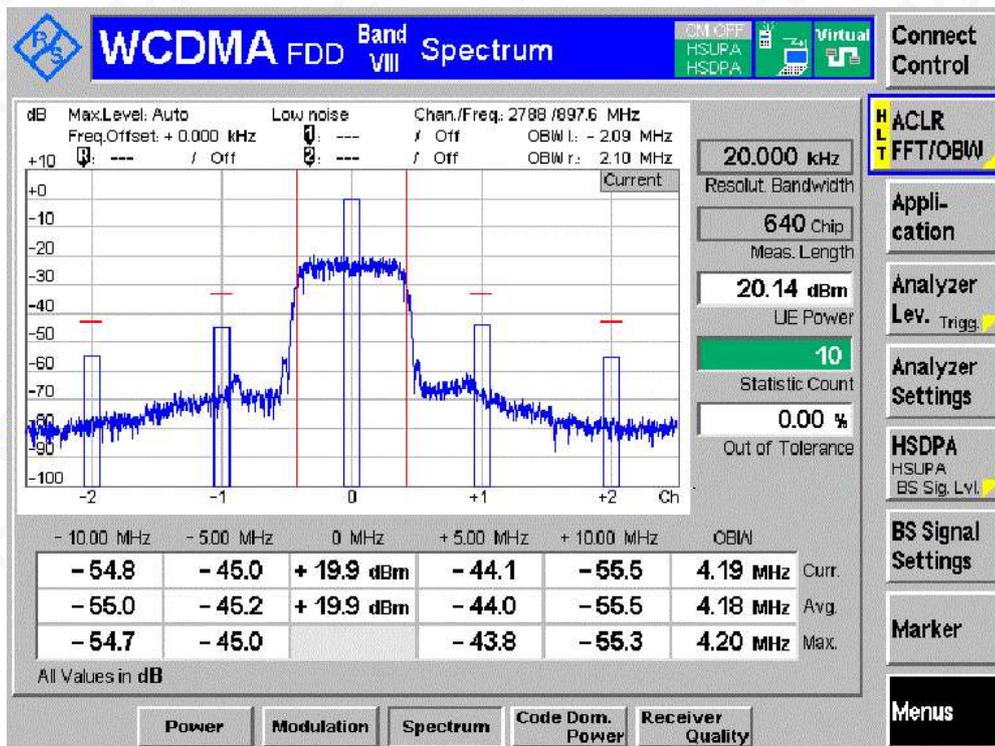
E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

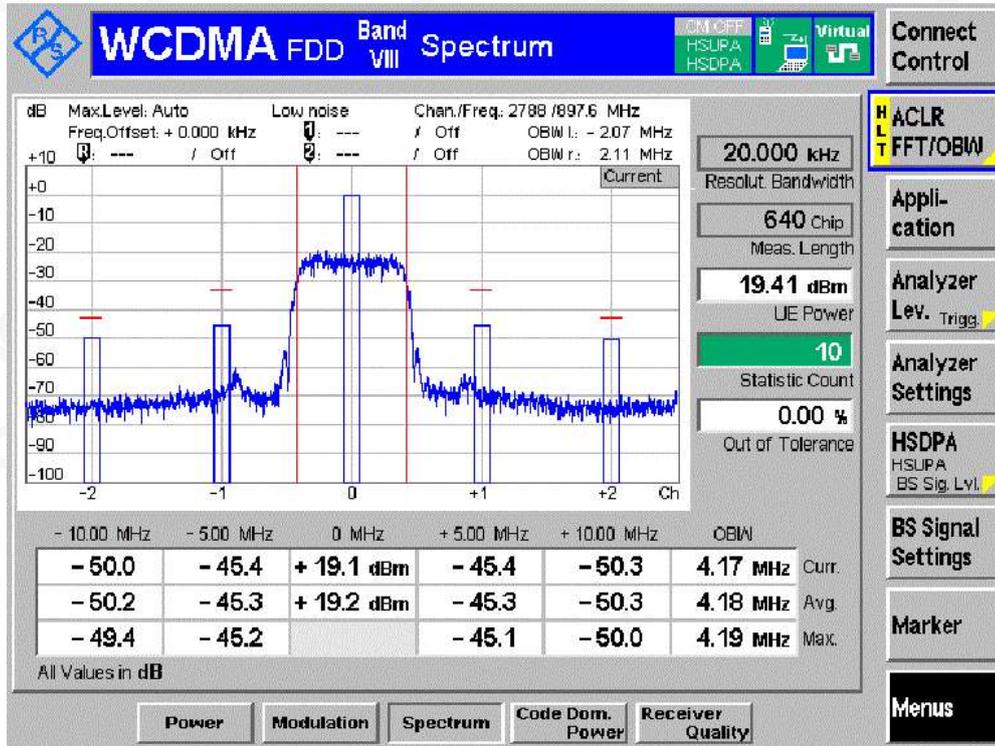
Sub-test 3



Sub-test 4

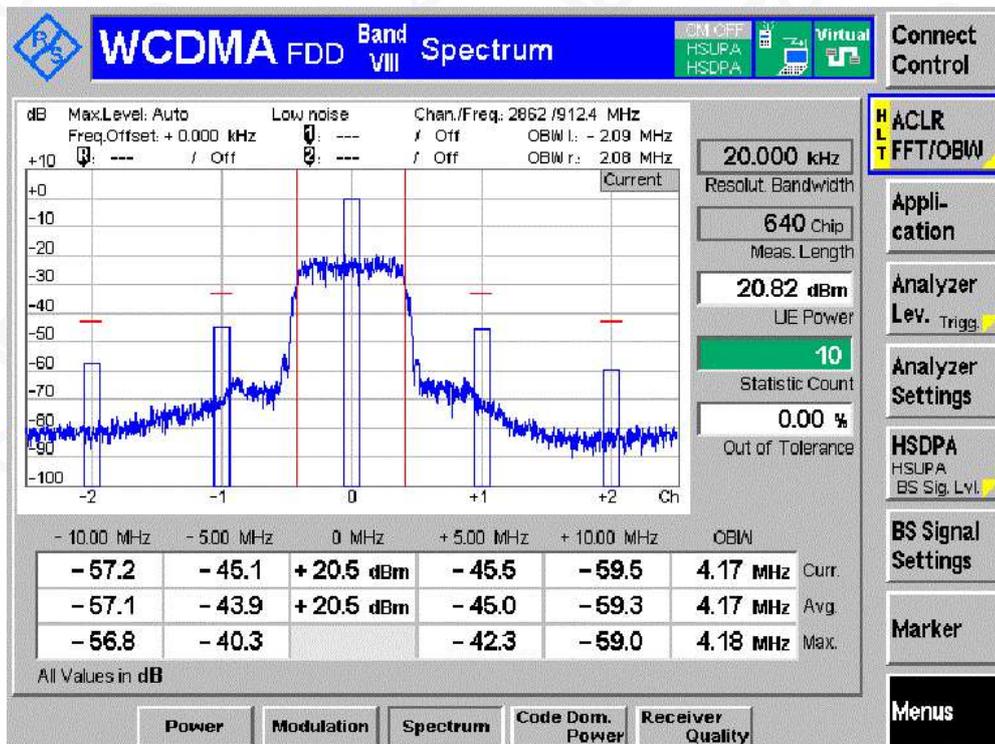


Sub-test 5

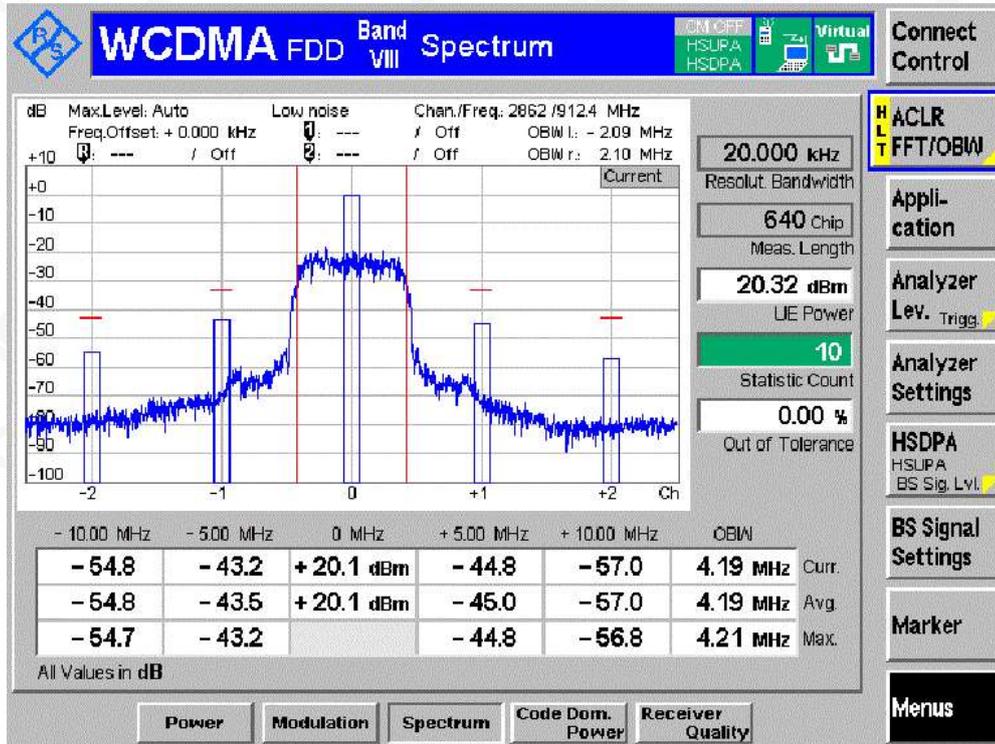


Channel HCH

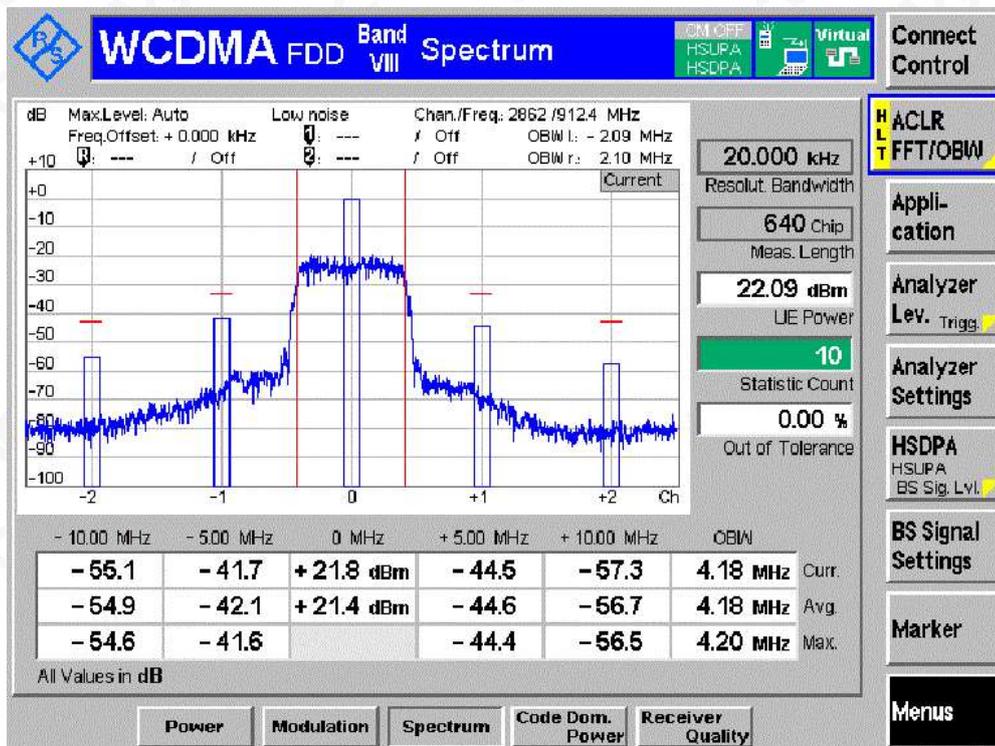
Sub-test 1



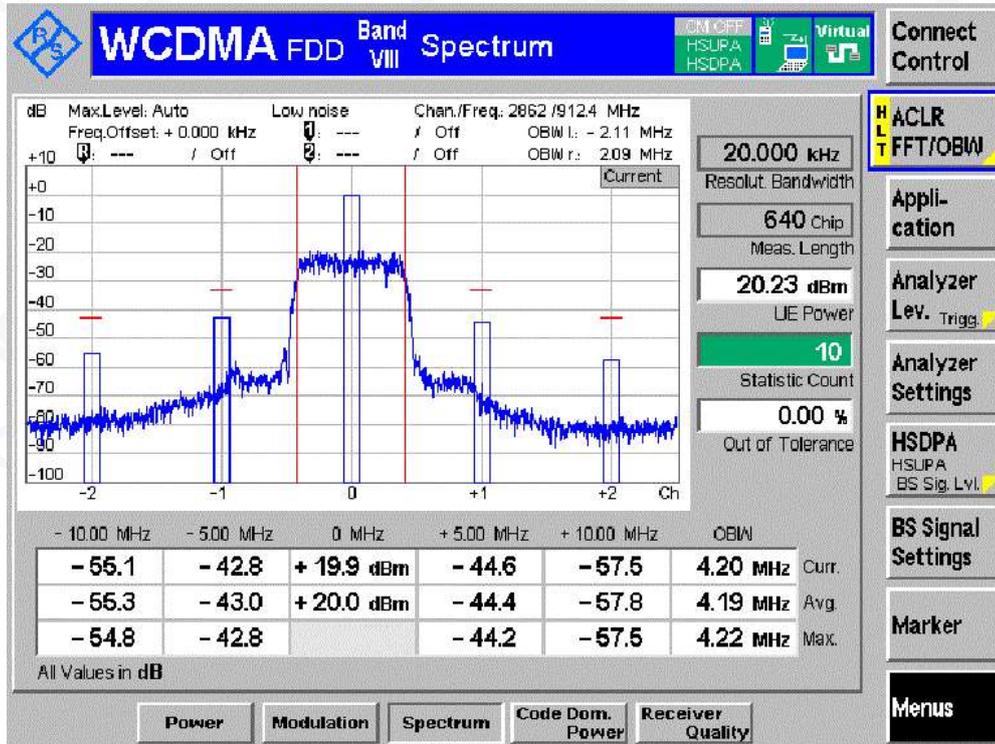
Sub-test 2



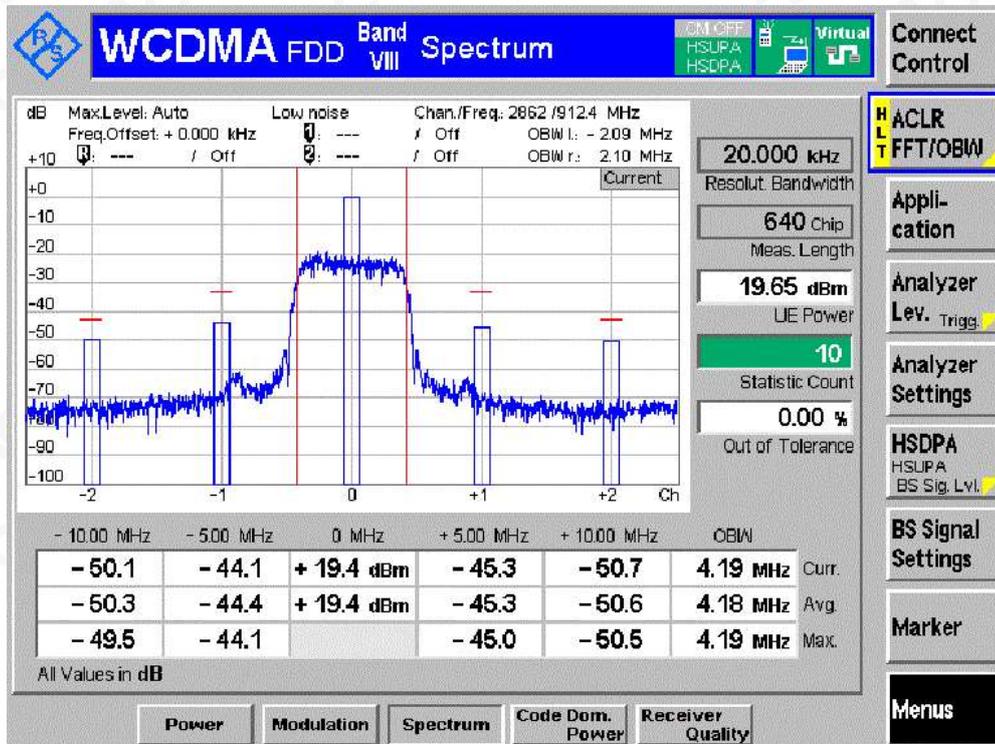
Sub-test 3



Sub-test 4



Sub-test 5



**Appendix L. Receiver spurious emissions**

| 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              | -60.6450286865234    | -60.6088729858398 | -60.8053070068359 | Pass   |
| 1 GHz ≤f < 12.75 GHz     | 1 MHz    | -47              | -52.1611053466797    | -52.1214630126953 | -52.0743438720703 | Pass   |
| 791 MHz ≤f < 821 MHz     | 3.84 MHz | -60              | -71.2486038208008    | -71.2171249389648 | -71.188720703125  | Pass   |
| 921 MHz ≤f < 925 MHz     | 100 kHz  | -60              | -67.6104141235352    | -67.6799026489258 | -67.6408248901367 | Pass   |
| 925 MHz ≤f < 935 MHz     | 100 kHz  | -67              | -69.7173400878906    | -69.6053787231445 | -69.7687240600586 | Pass   |
| 935 MHz < f < 960 MHz    | 100 kHz  | -79              | -80.5416885375977    | -80.380387878418  | -80.5585647583008 | Pass   |
| 1805MHz ≤f < 1880MHz     | 100 kHz  | -60              | -80.16357421875      | -80.0882339477539 | -80.086181640625  | Pass   |
| 1920MHz ≤f < 1980MHz     | 3.84 MHz | -60              | -72.1523590087891    | -72.1389083862305 | -72.1076889038086 | Pass   |
| 2 110 MHz ≤f < 2 170 MHz | 3.84 MHz | -60              | -71.5993240356445    | -71.5776641845703 | -71.4001205444336 | Pass   |
| 2 585 MHz ≤f < 2 690 MHz | 3.84 MHz | -60              | -69.8508270263672    | -69.8556564331055 | -69.8302124023437 | Pass   |

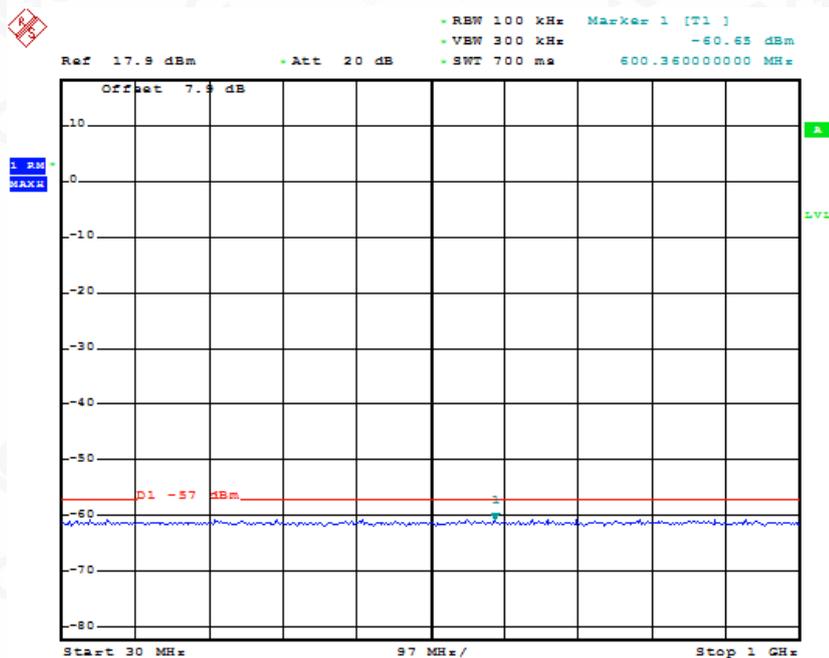
| Frequency            | RBW      | Max .Level (dbm) | Test Band=Band VIII  |                   |                   | Result |
|----------------------|----------|------------------|----------------------|-------------------|-------------------|--------|
|                      |          |                  | Test Conditions=TNVN |                   |                   |        |
|                      |          |                  | Test Channel         |                   |                   |        |
|                      |          |                  | LCH                  | MCH               | HCH               |        |
| 30 MHz ≤f < 1 GHz    | 100 kHz  | -57              | -60.7066055297852    | -60.5793853759766 | -60.6739212036133 | Pass   |
| 1 GHz ≤f ≤12.75 GHz  | 1 MHz    | -47              | -51.848811340332     | -51.8346130371094 | -51.8697616577148 | Pass   |
| 791 MHz ≤f ≤821 MHz  | 3.84 MHz | -60              | -71.0704574584961    | -71.1049728393555 | -71.0515670776367 | Pass   |
| 880 MHz ≤f < 915 MHz | 3.84 MHz | -60              | -70.3494964599609    | -70.3347793579102 | -70.3161560058594 | Pass   |
| 921 MHz ≤f ≤925 MHz  | 100 kHz  | -60              | -67.764176940918     | -67.5993209838867 | -67.783479309082  | Pass   |
| 925 MHz ≤f ≤935 MHz  | 100 kHz  | -67              | -70.4712539672852    | -69.9710174560547 | -70.4374252319336 | Pass   |
| 925 MHz ≤f ≤935 MHz  | 3.84 MHz | -60              | -71.9103713989258    | -71.8817764282227 | -71.8776031494141 | Pass   |
| 935 MHz < f ≤960 MHz | 100 kHz  | -79              | -80.5794464111328    | -80.690217590332  | -80.4769760131836 | Pass   |

|                         |          |     |                   |                   |                   |      |
|-------------------------|----------|-----|-------------------|-------------------|-------------------|------|
| 1805MHz ≤f <1880MHz     | 3.84 MHz | -60 | -71.9844436645508 | -71.9942474365234 | -72.02587890625   | Pass |
| 2 110 MHz ≤f ≤2 170 MHz | 3.84 MHz | -60 | -71.4534271240234 | -71.0915954589844 | -71.3413818359375 | Pass |
| 2 585 MHz ≤f ≤2 690 MHz | 3.84 MHz | -60 | -69.7281463623047 | -69.7021072387695 | -69.6982315063477 | Pass |

**BAND I**

**Channel LCH**

30MHZ~1GHZ

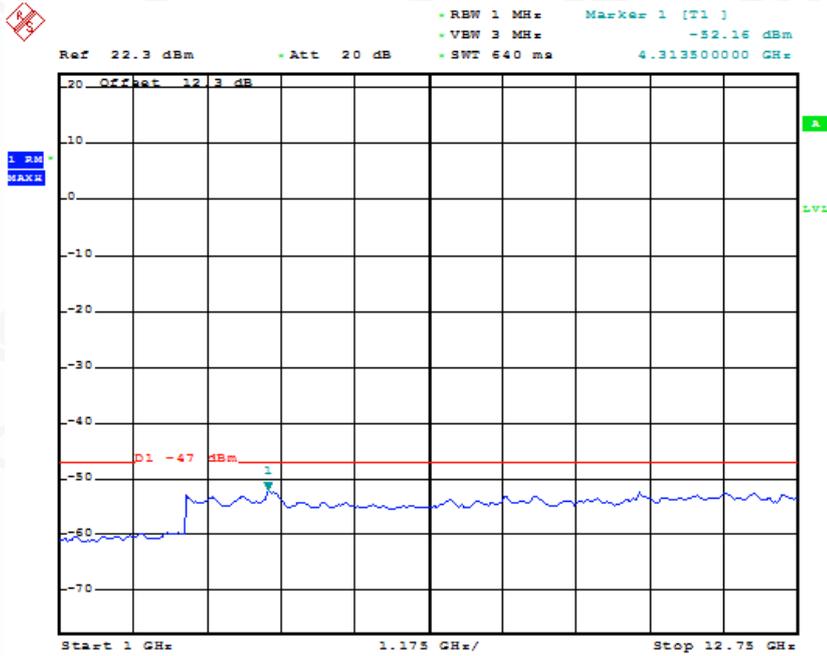


AAA

Date: 16.OCT.2019 16:01:16



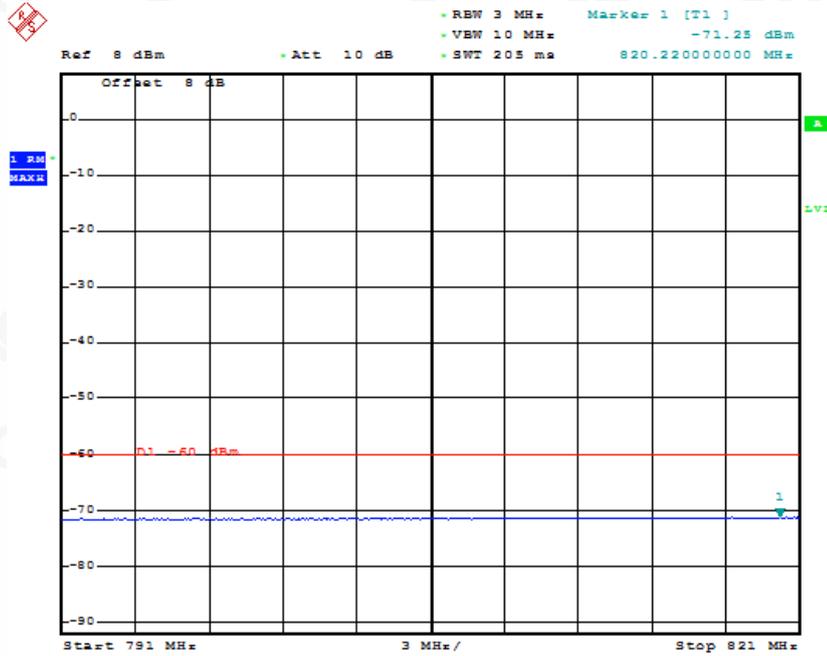
1GHZ~12.75GHZ



AAA

Date: 16.OCT.2019 16:01:36

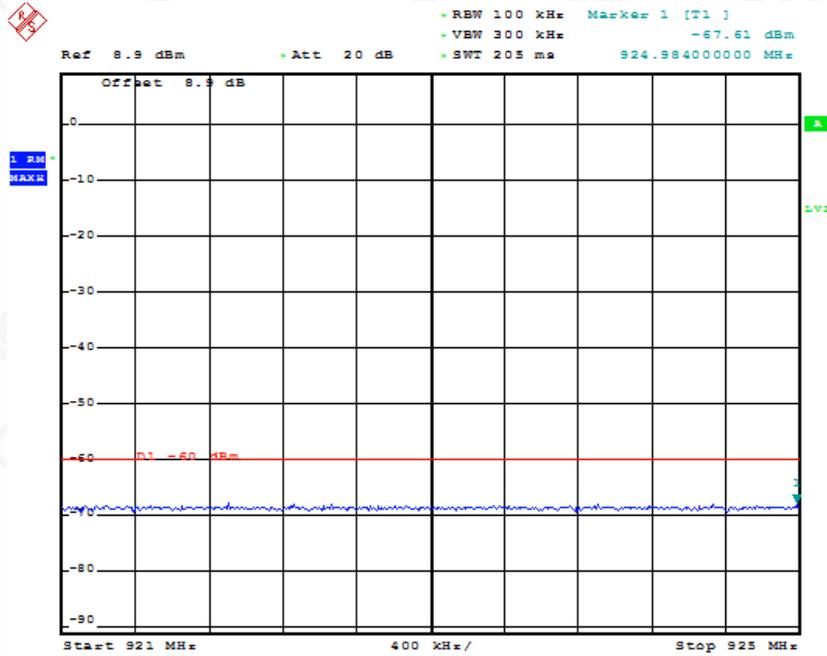
791MHZ~821MHZ



AAA

Date: 16.OCT.2019 16:02:01

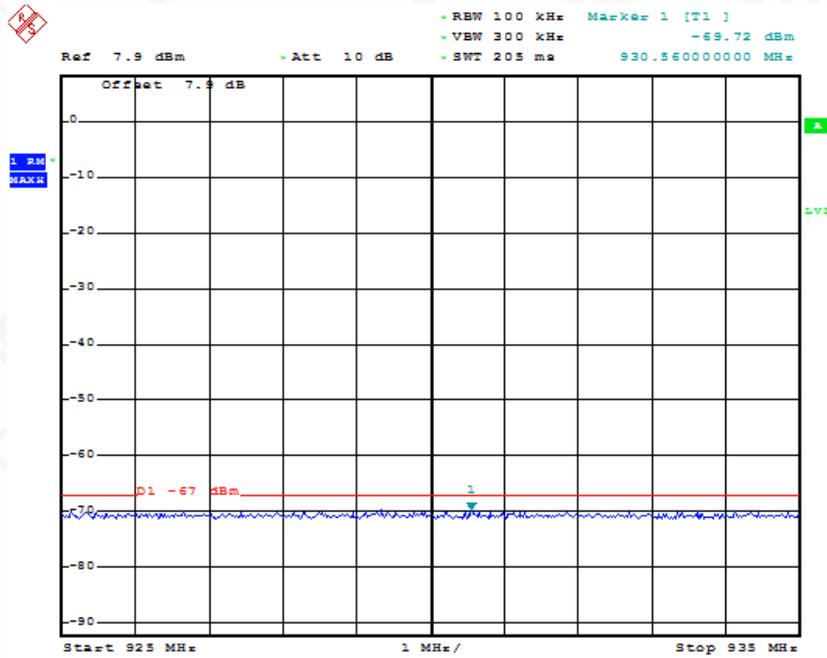
921MHZ~925MHZ



AAA

Date: 16.OCT.2019 16:02:27

925MHZ~935MHZ



AAA

Date: 16.OCT.2019 16:02:52



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

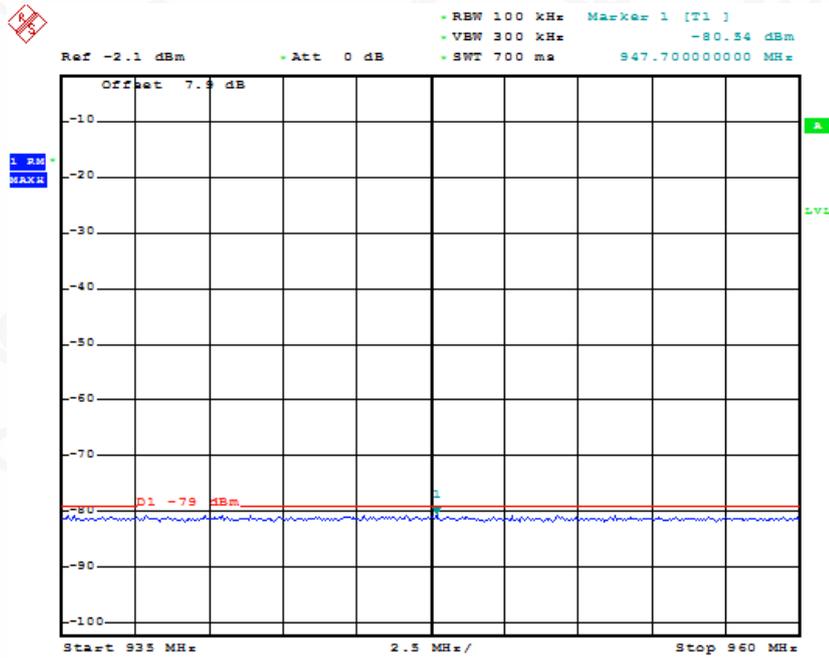
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

935MHZ~960MHZ



AAA

Date: 16.OCT.2019 16:03:06



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Attestation of Global Compliance(Shenzhen)Co.,Ltd.

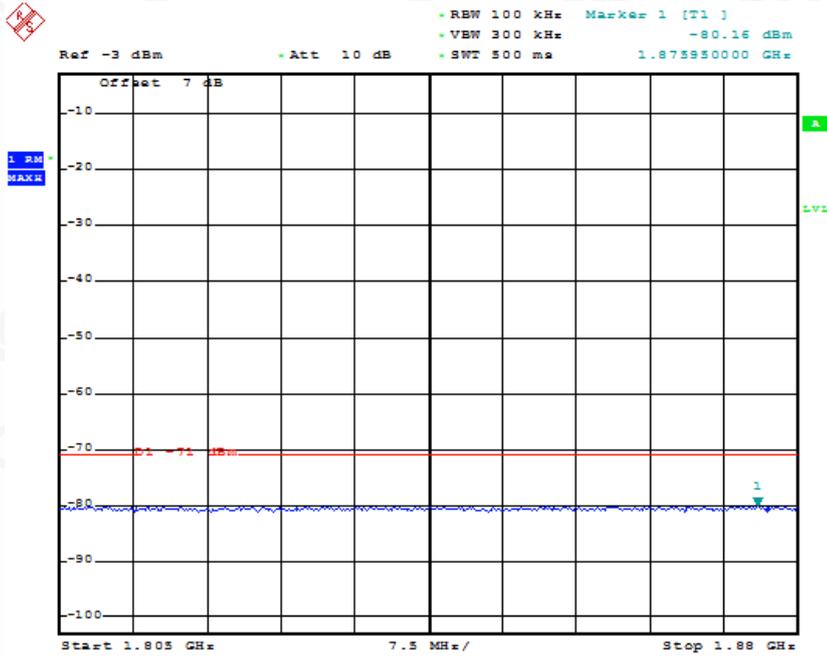
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

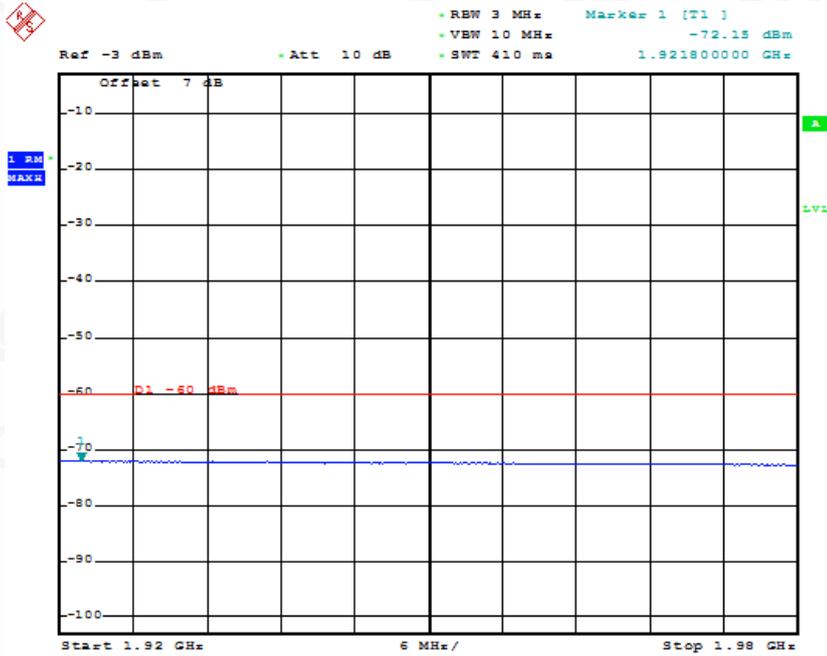
1805MHZ~1880MHZ



AAA

Date: 16.OCT.2019 16:03:13

1920MHZ~1980MHZ



AAA

Date: 16.OCT.2019 16:03:51



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

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

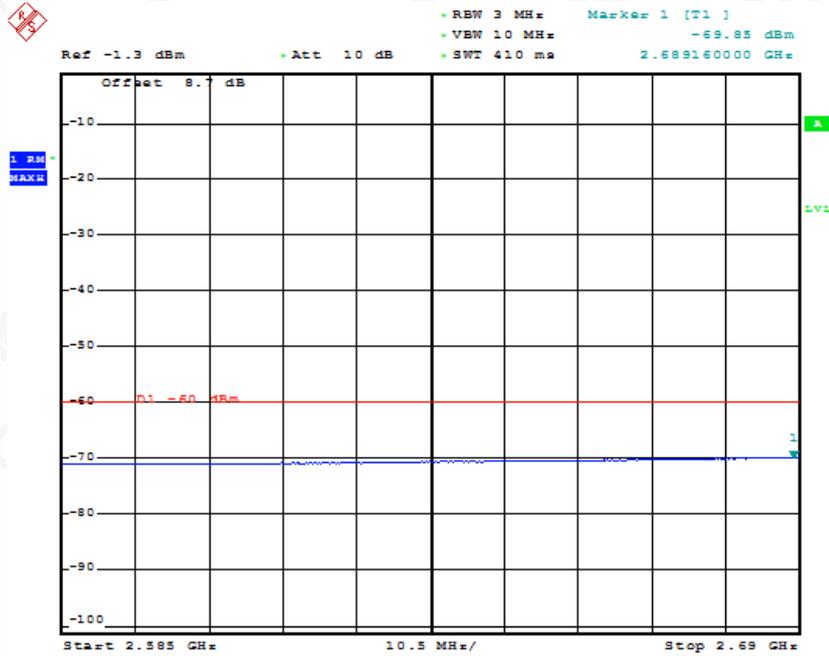
Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118



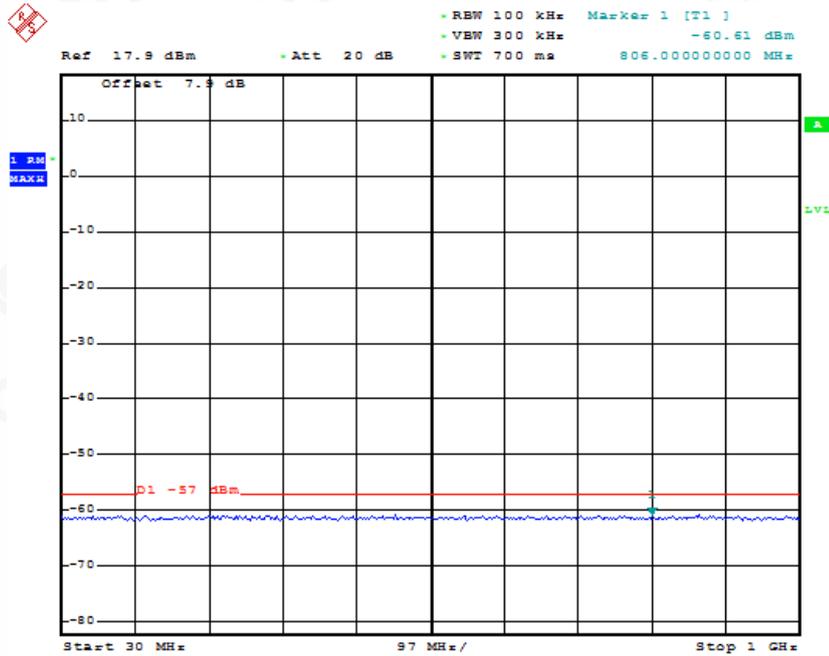
2585MHZ~2690MHZ



AAA

Date: 16.OCT.2019 16:04:36

**Channel MCH**  
30MHz~1GHz



AAA

Date: 16.OCT.2019 16:05:04



**Attestation of Global Compliance**

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

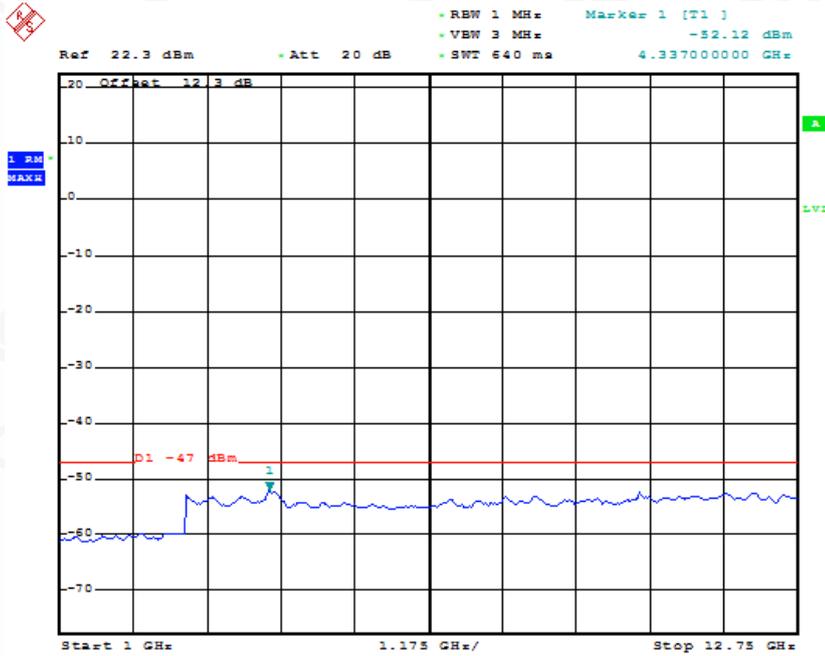
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

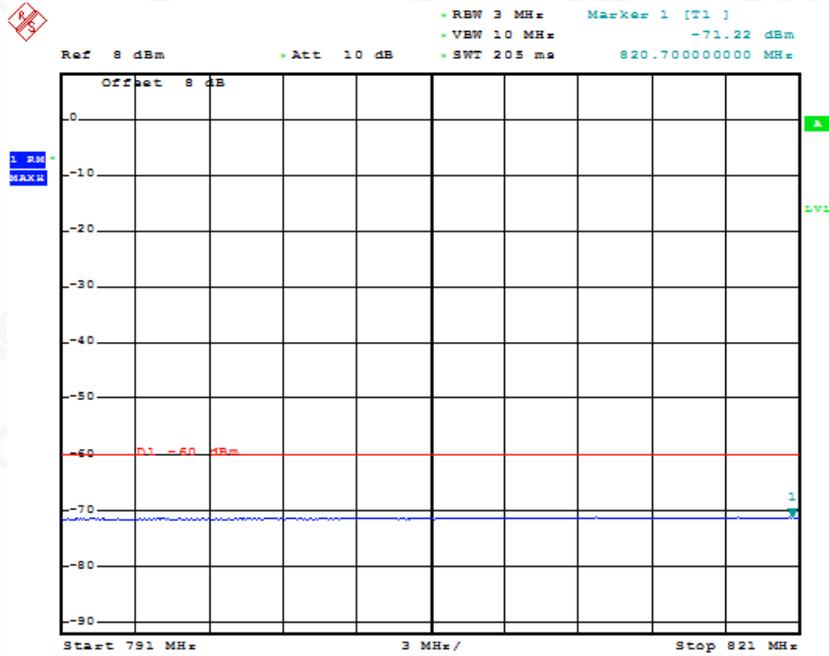
1GHZ~12.75GHZ



AAA

Date: 16.OCT.2019 16:05:24

791MHZ~821MHZ



AAA

Date: 16.OCT.2019 16:05:49



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

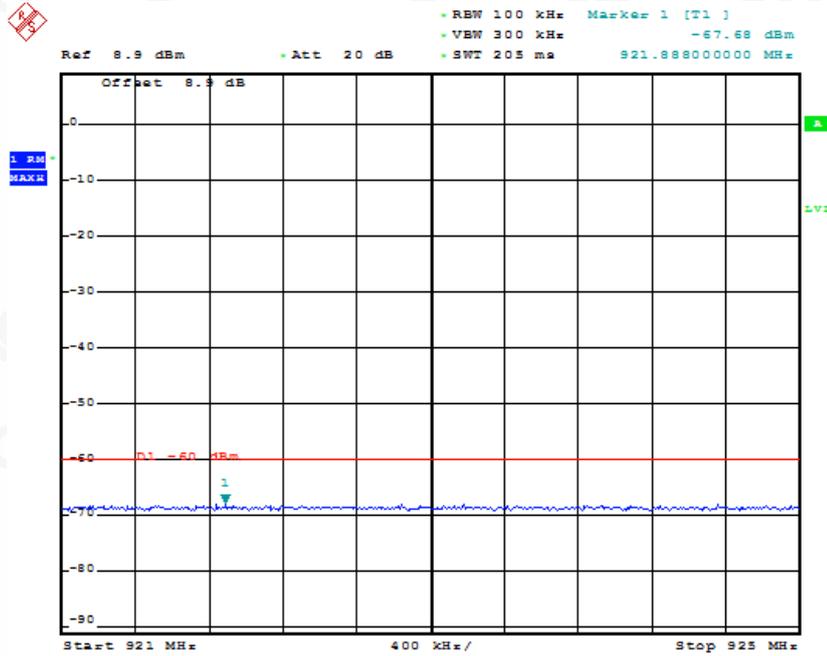
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

921MHZ~925MHZ



AAA

Date: 16.OCT.2019 16:06:15



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Attestation of Global Compliance(Shenzhen)Co.,Ltd.

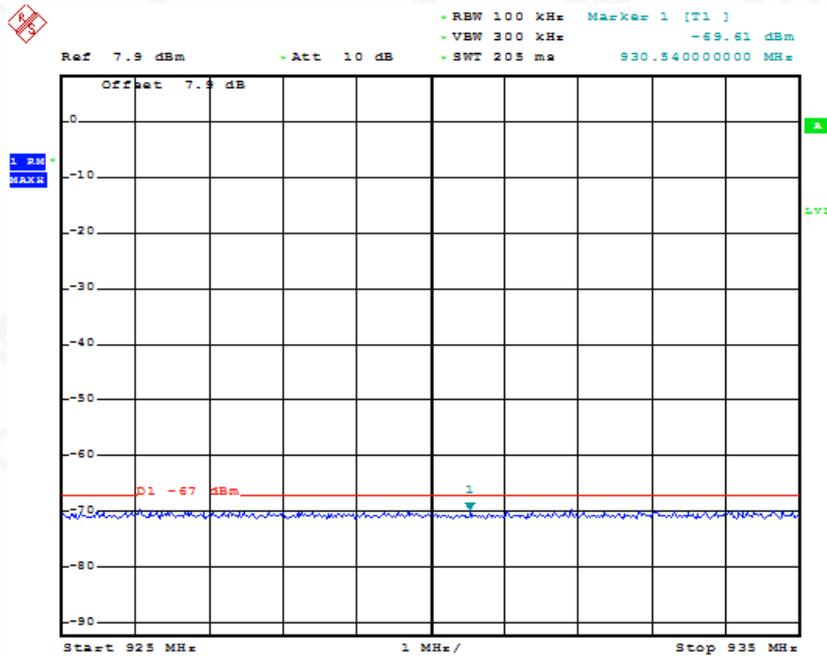
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

925MHZ~935MHZ



AAA

Date: 16.OCT.2019 16:06:40



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Attestation of Global Compliance(Shenzhen)Co.,Ltd.

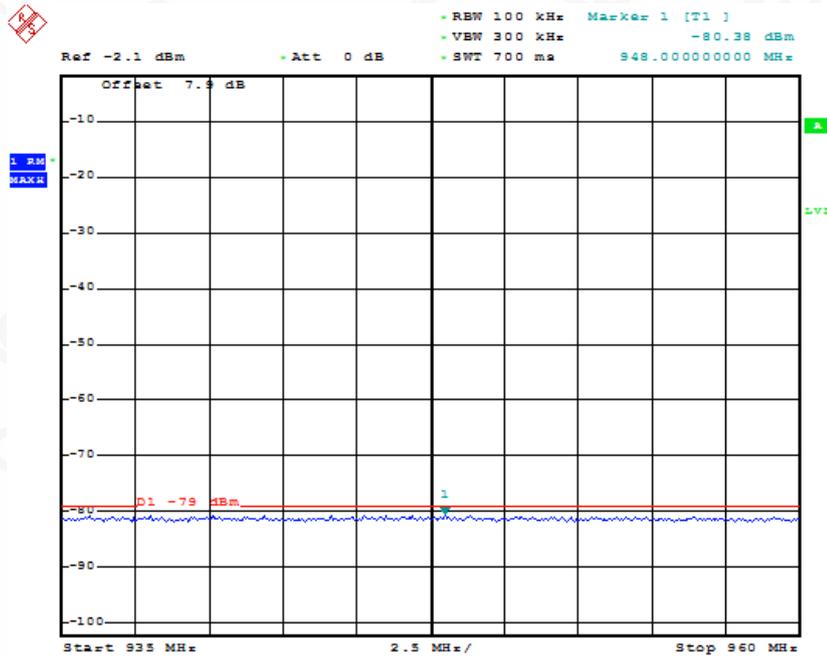
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

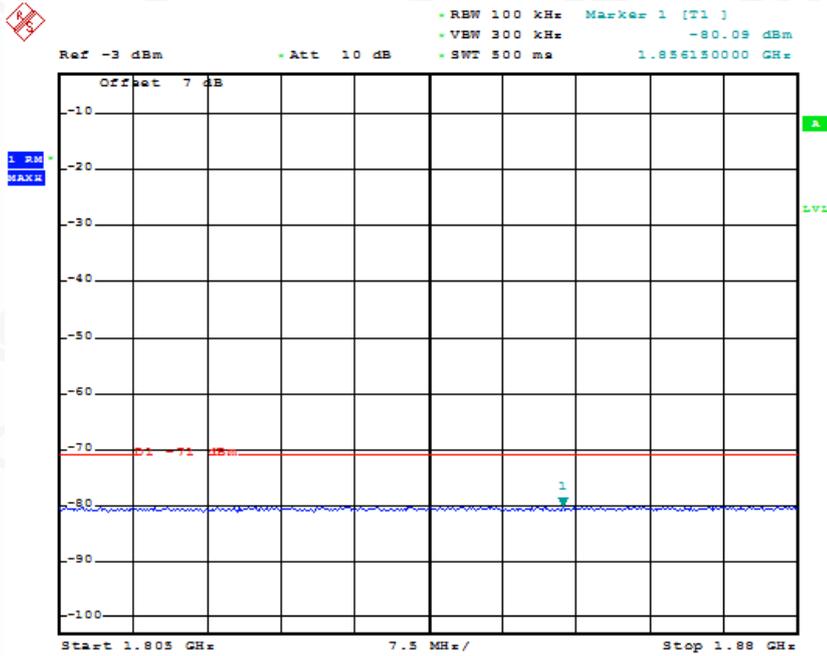
935MHZ~960MHZ



AAA

Date: 16.OCT.2019 16:06:54

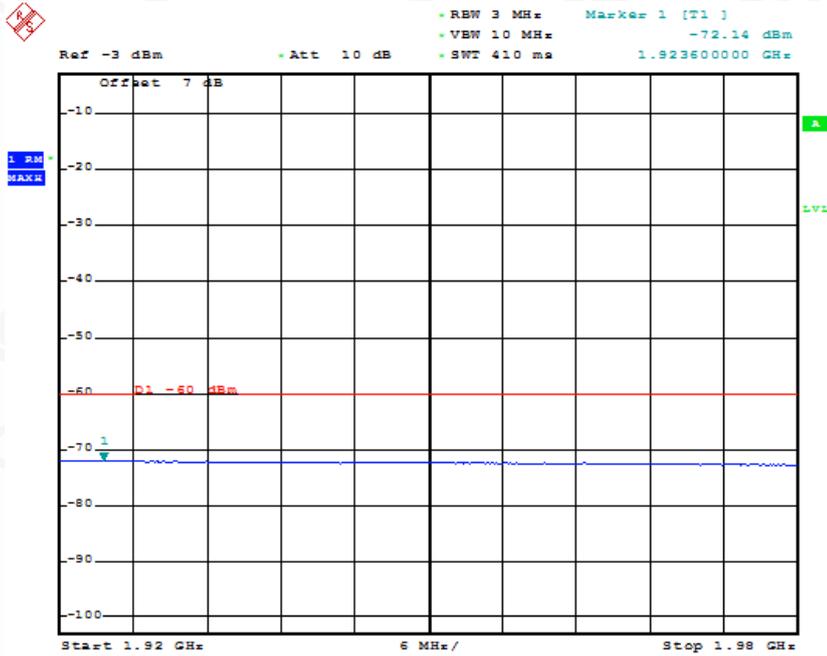
1805MHZ~1880MHZ



AAA

Date: 16.OCT.2019 16:07:01

1920MHZ~1980MHZ



AAA

Date: 16.OCT.2019 16:07:39



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

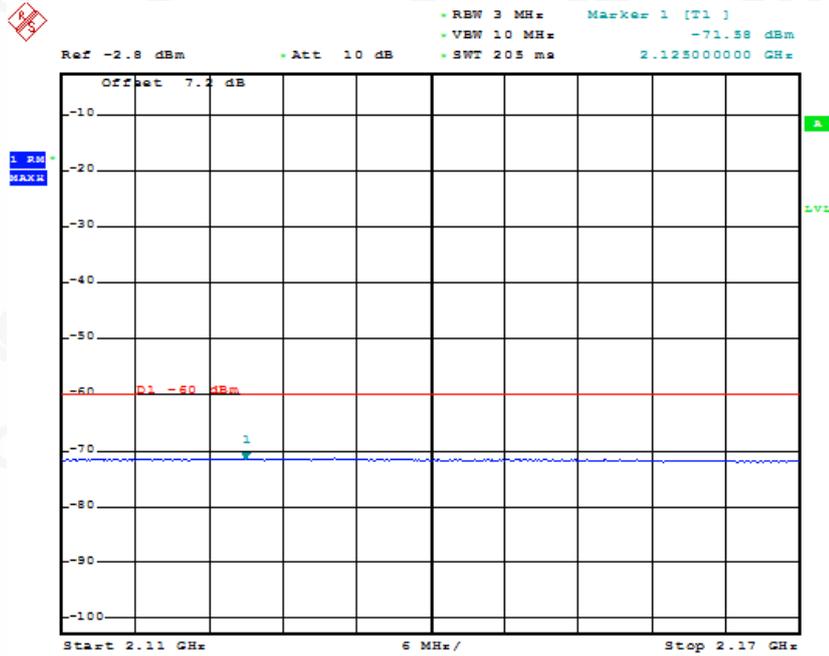
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

2110MHZ~2170MHZ



AAA

Date: 16.OCT.2019 16:08:04



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Attestation of Global Compliance(Shenzhen)Co.,Ltd.

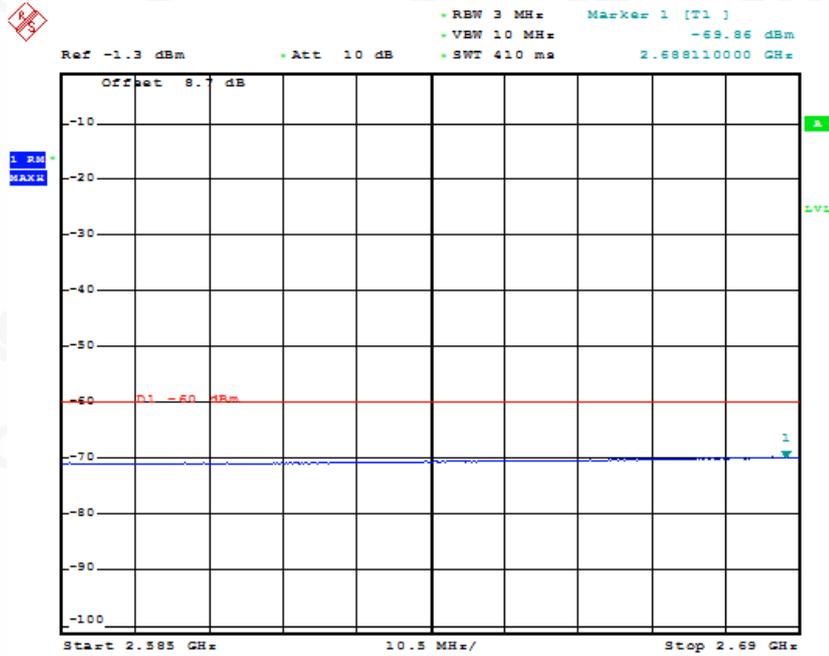
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

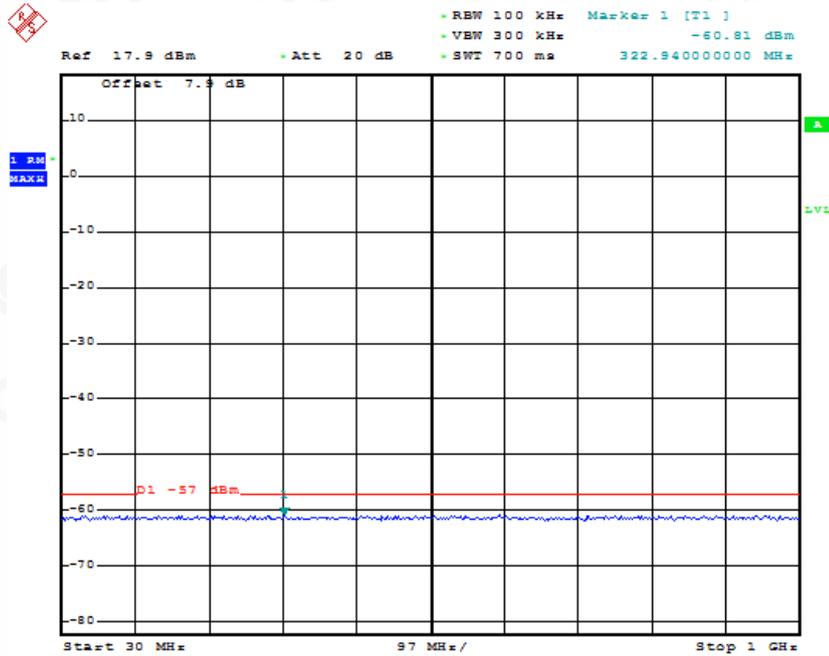
2585MHZ~2690MHZ



AAA

Date: 16.OCT.2019 16:08:24

**Channel HCH**  
30MHz~1GHz

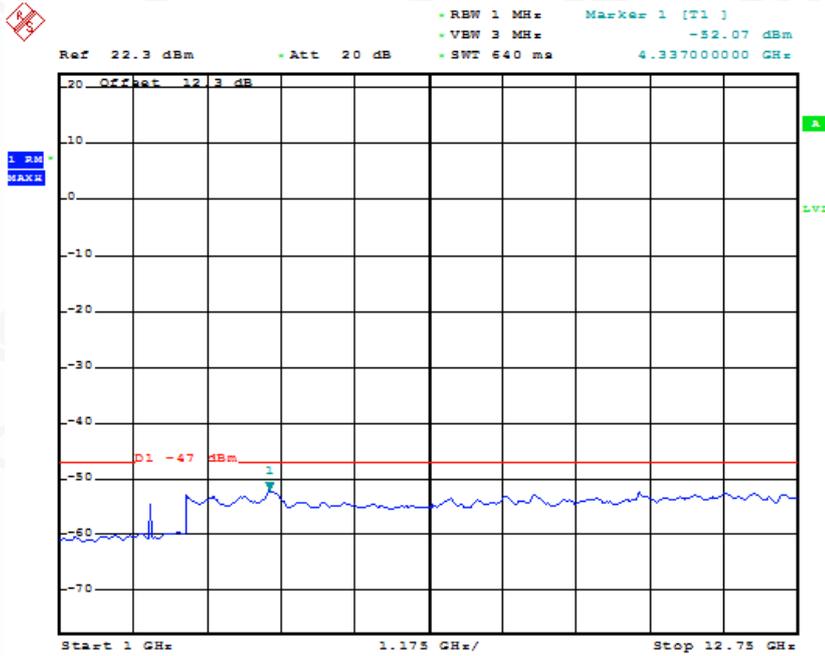


AAA

Date: 16.OCT.2019 16:08:52



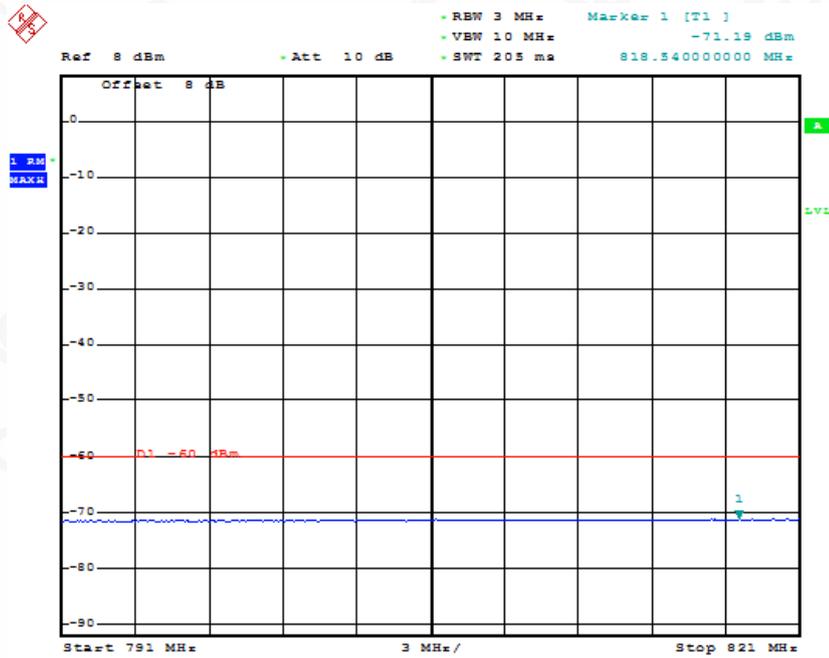
1GHZ~12.75GHZ



AAA

Date: 16.OCT.2019 16:09:11

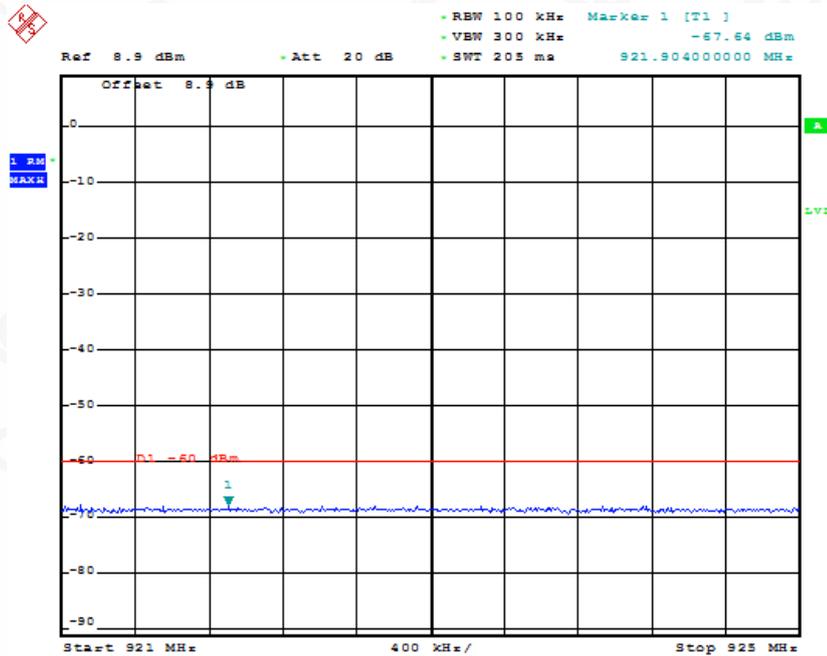
791MHZ~821MHZ



AAA

Date: 16.OCT.2019 16:09:37

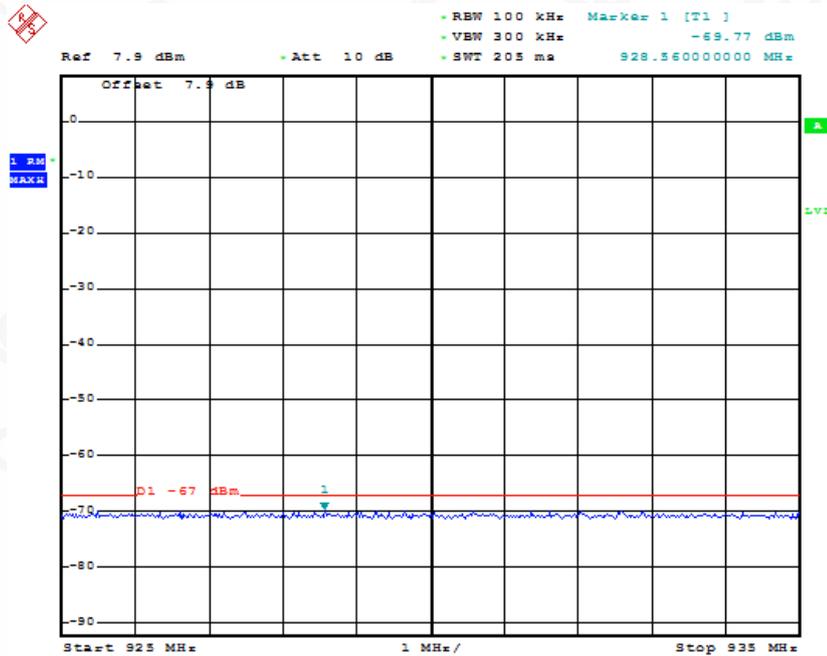
921MHZ~925MHZ



AAA

Date: 16.OCT.2019 16:10:02

925MHZ~935MHZ



AAA

Date: 16.OCT.2019 16:10:28



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

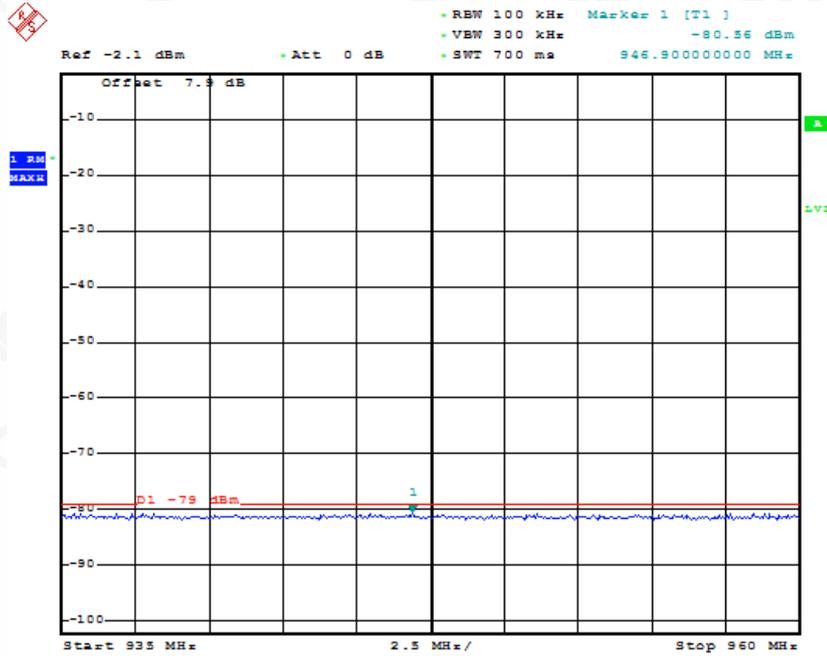
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

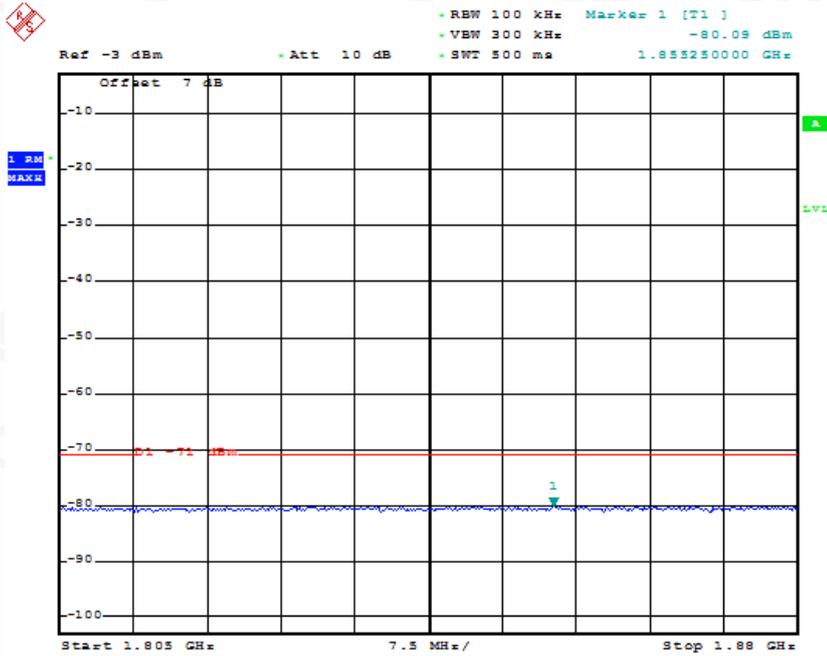
935MHZ~960MHZ



AAA

Date: 16.OCT.2019 16:10:41

1805MHZ~1880MHZ

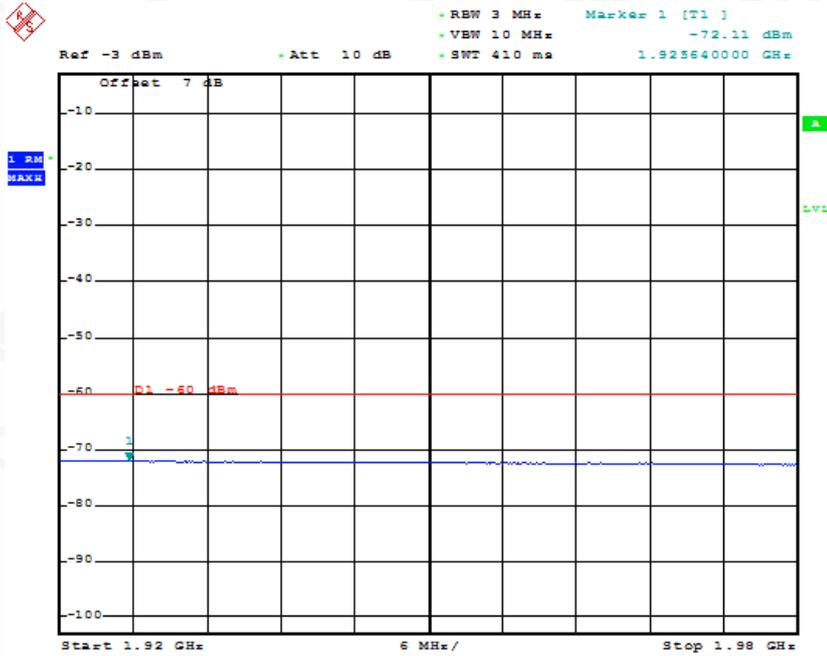


AAA

Date: 16.OCT.2019 16:10:48



1920MHZ~1980MHZ



AAA

Date: 16.OCT.2019 16:11:26



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

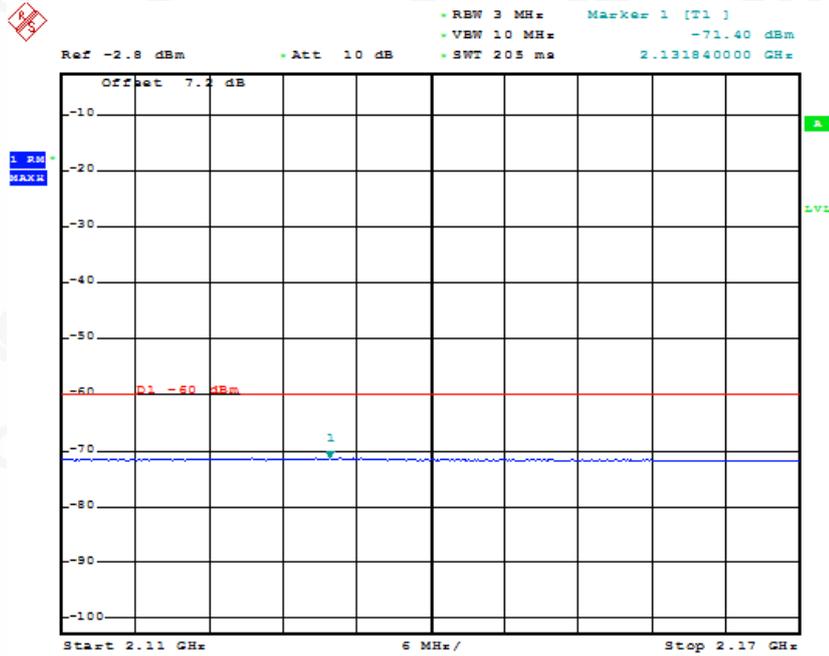
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

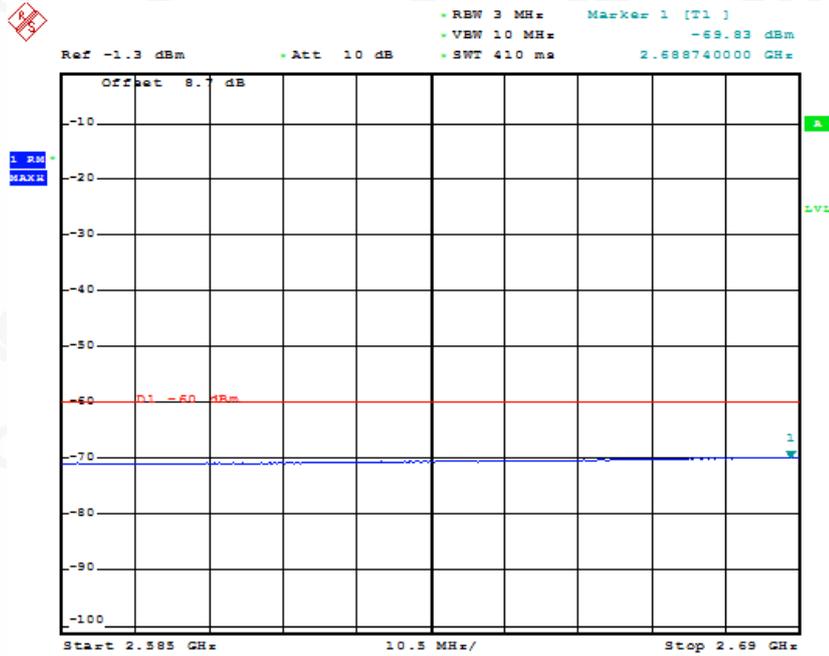
2110MHZ~2170MHZ



AAA

Date: 16.OCT.2019 16:11:52

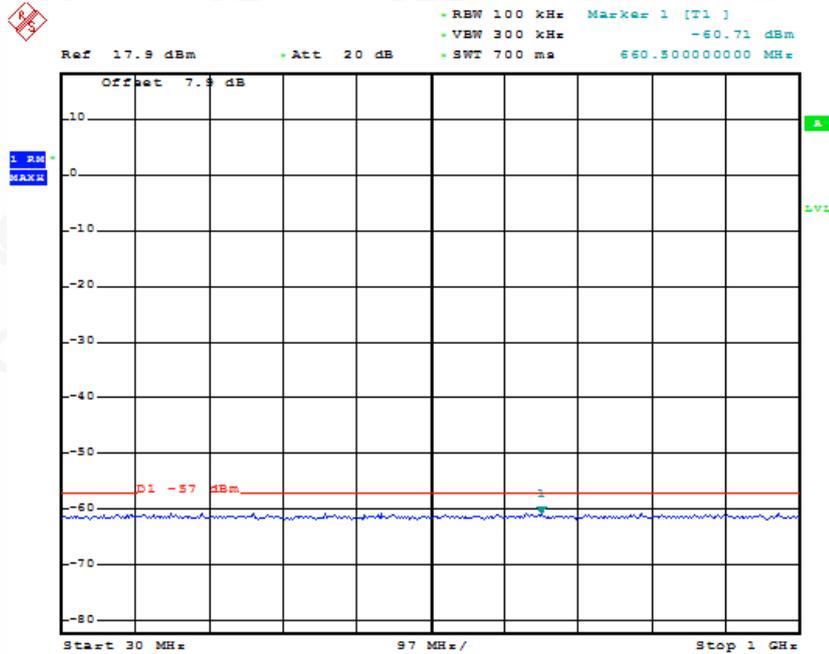
2585MHZ~2690MHZ



AAA

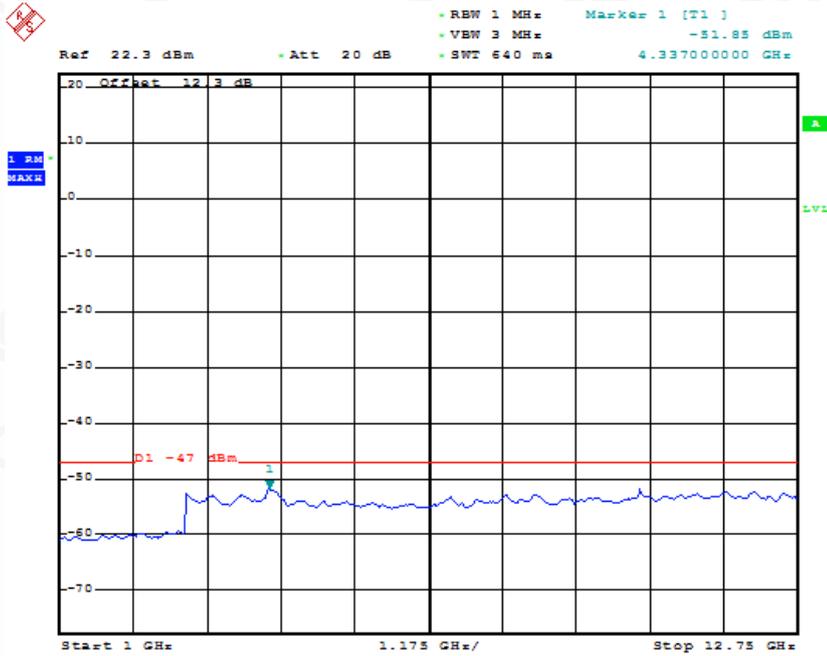
Date: 16.OCT.2019 16:12:11

**BAND VIII**  
**Channel LCH**  
**30MHZ~1GHZ**



AAA  
Date: 16.OCT.2019 17:52:16

1GHZ~12.75GHZ



AAA

Date: 16.OCT.2019 17:52:35



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

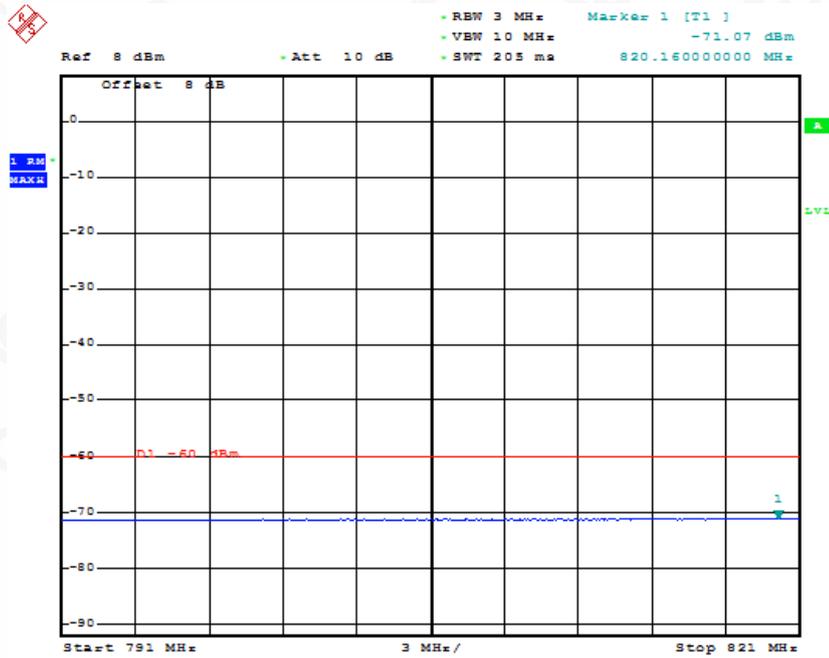
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

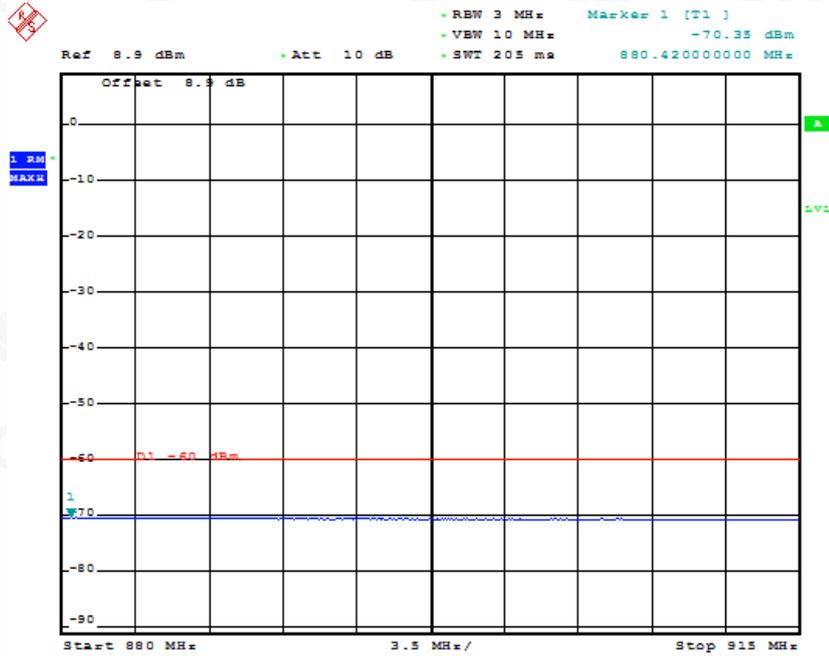
791MHZ~821MHZ



AAA

Date: 16.OCT.2019 17:53:00

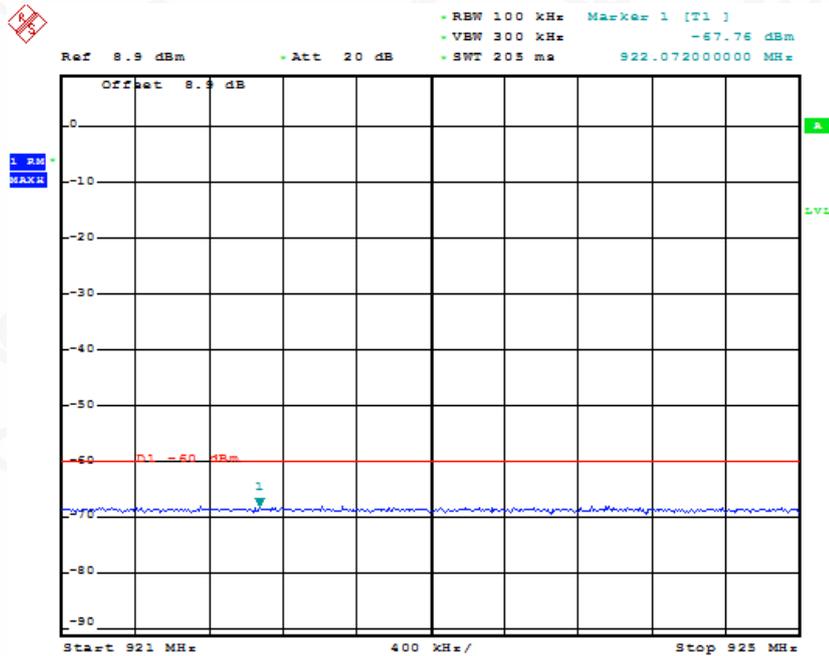
880MHZ~915MHZ



AAA

Date: 16.OCT.2019 17:53:26

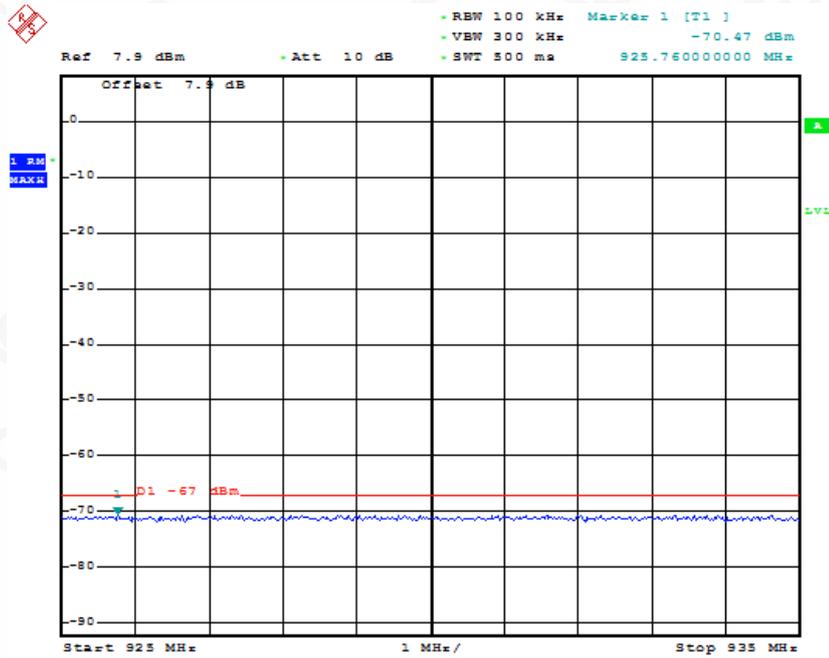
921MHZ~925MHZ



AAA

Date: 16.OCT.2019 17:53:51

925MHZ~935MHZ



AAA

Date: 16.OCT.2019 17:54:11



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

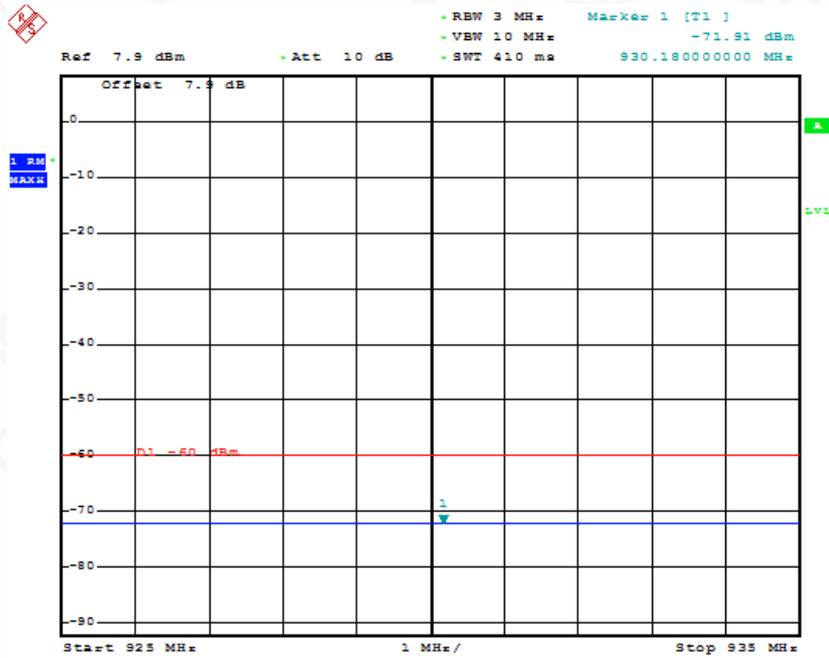
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

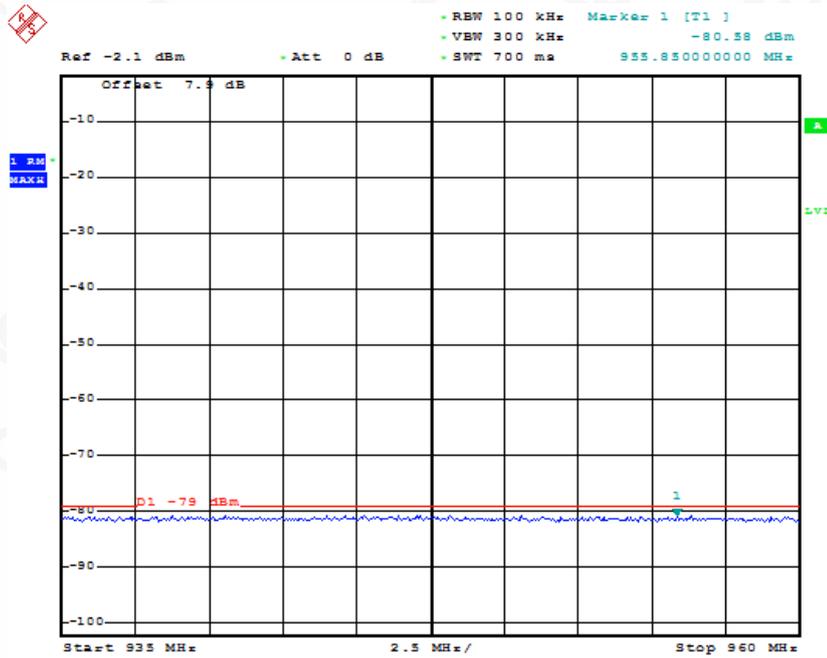
925MHZ~935MHZ



AAA

Date: 16.OCT.2019 17:54:49

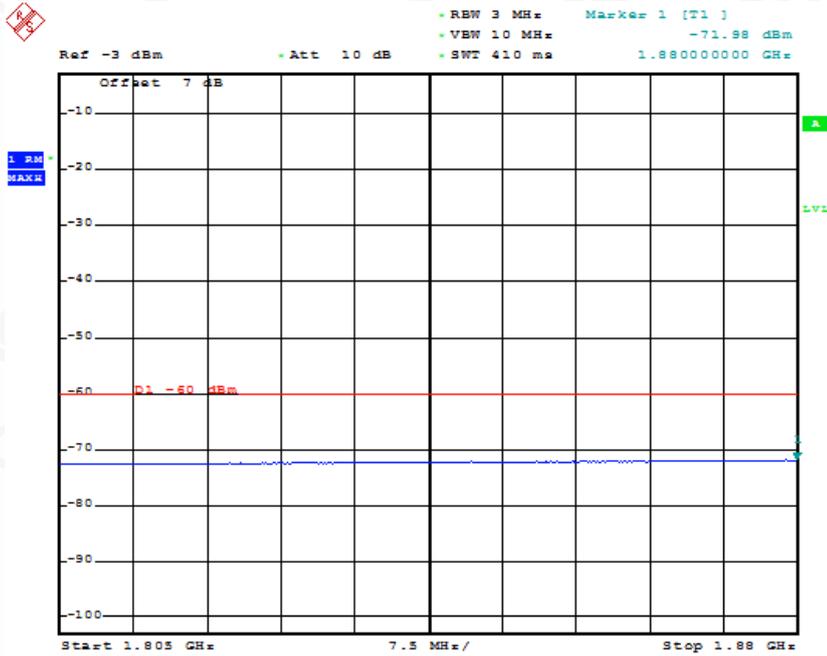
935MHZ~960MHZ



AAA

Date: 16.OCT.2019 17:55:02

1805MHZ~1880MHZ



AAA

Date: 16.OCT.2019 17:55:40



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Attestation of Global Compliance(Shenzhen)Co.,Ltd.

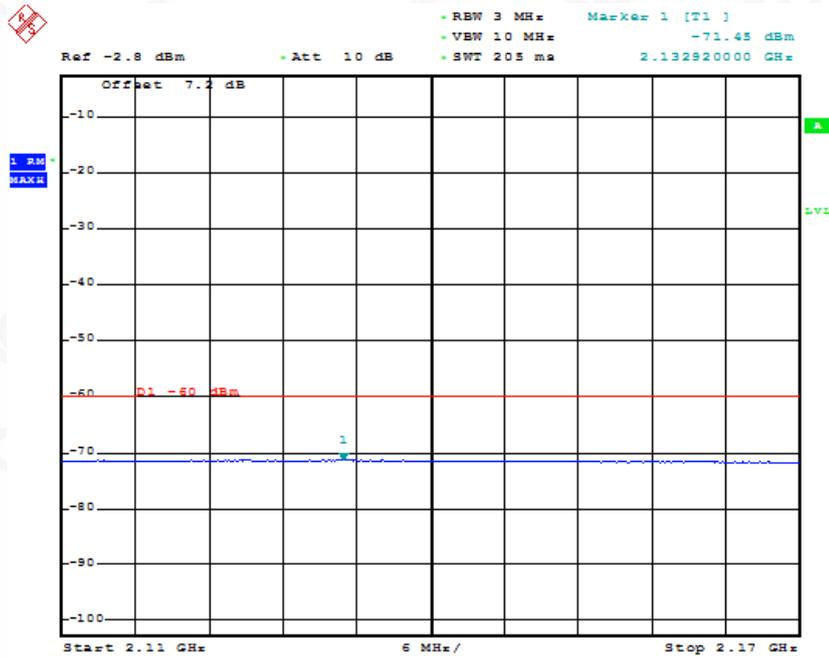
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

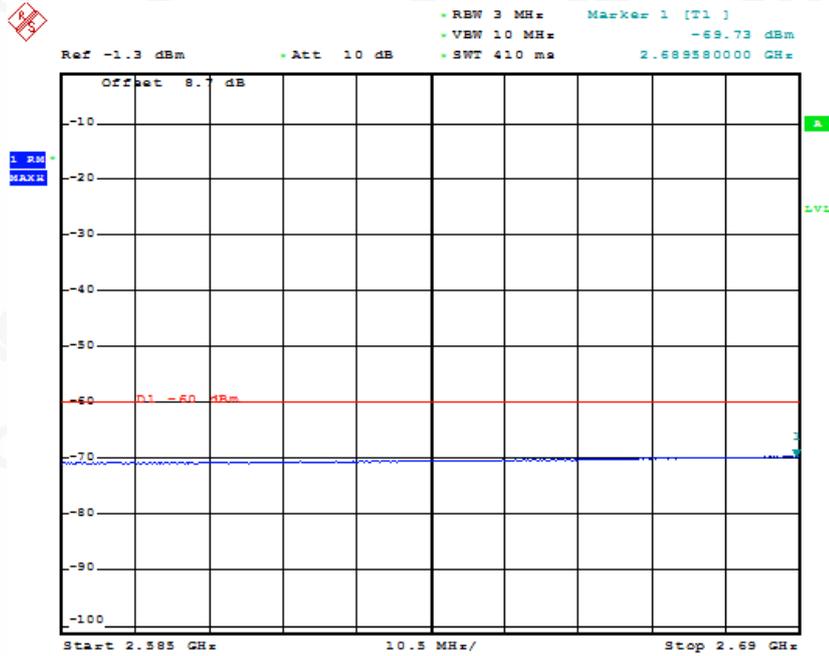
2110MHZ~2170MHZ



AAA

Date: 16.OCT.2019 17:56:05

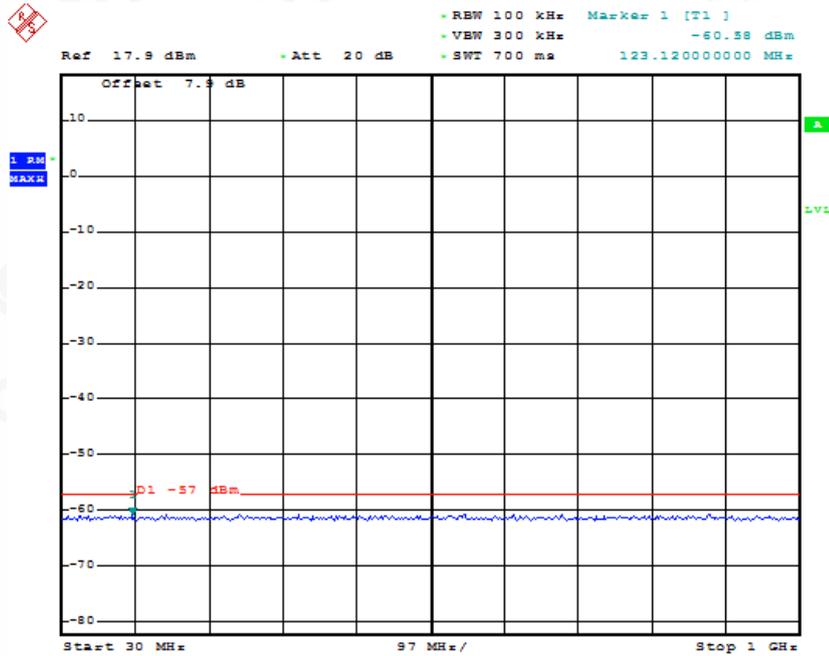
2585MHZ~2690MHZ



AAA

Date: 16.OCT.2019 17:56:24

**Channel MCH**  
30MHz~1GHz

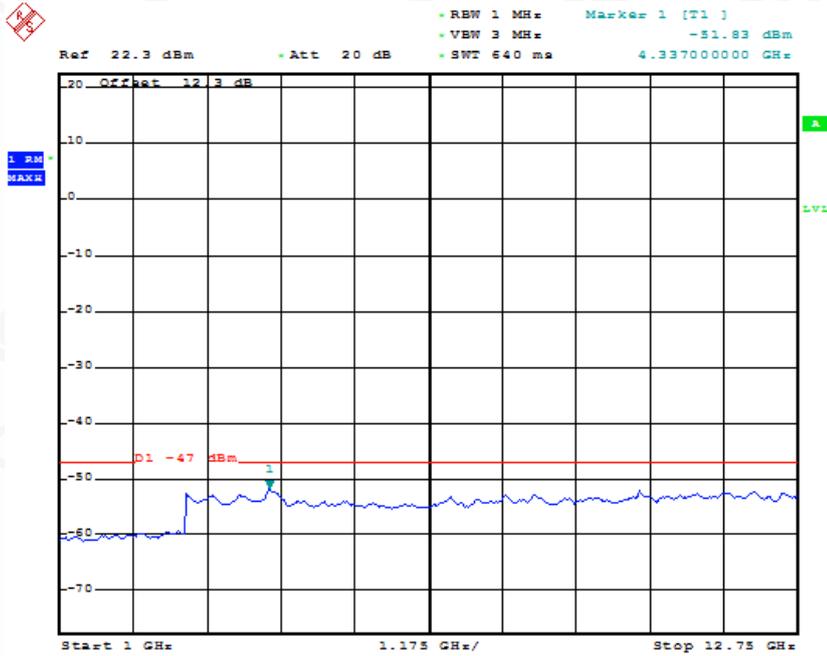


AAA

Date: 16.OCT.2019 17:56:53



1GHZ~12.75GHZ



AAA

Date: 16.OCT.2019 17:57:12



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

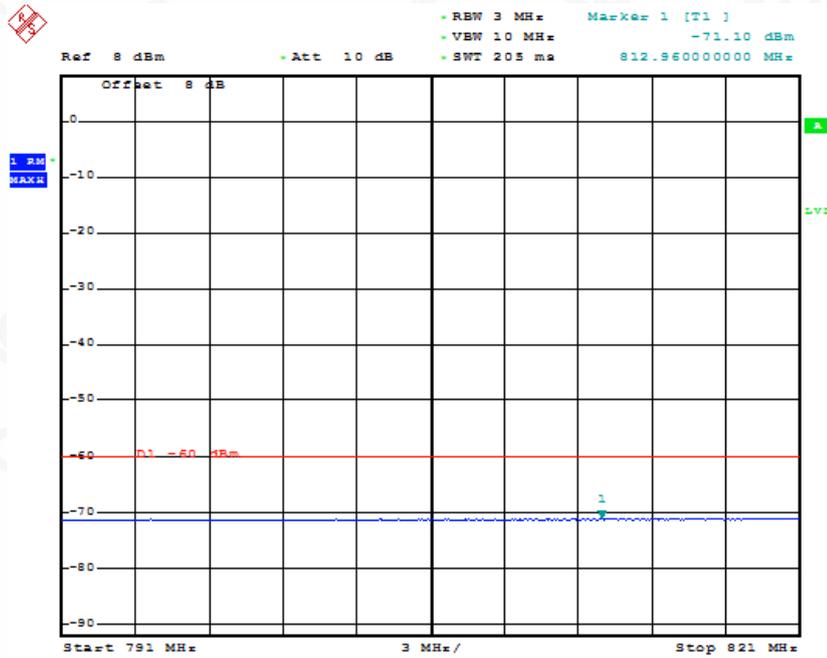
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

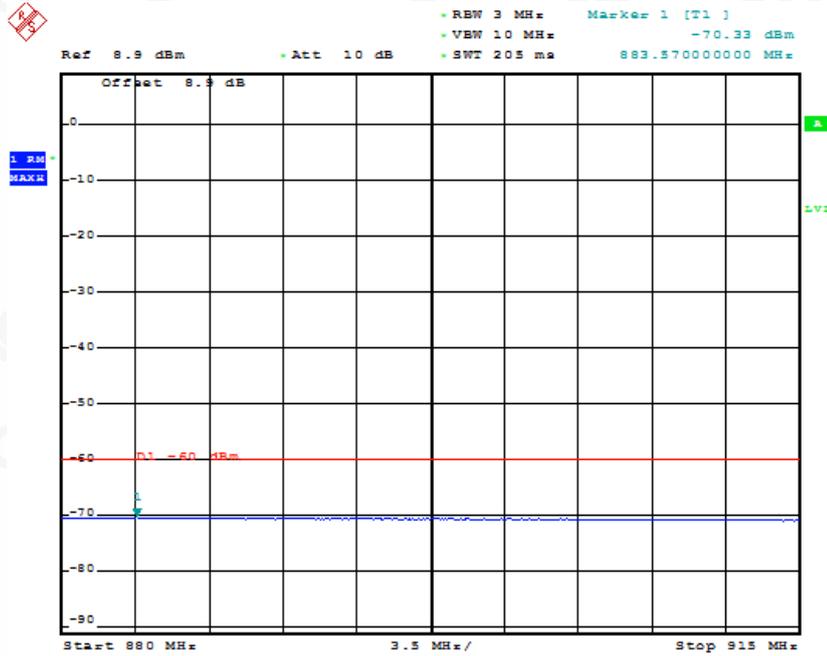
791MHZ~821MHZ



AAA

Date: 16.OCT.2019 17:57:38

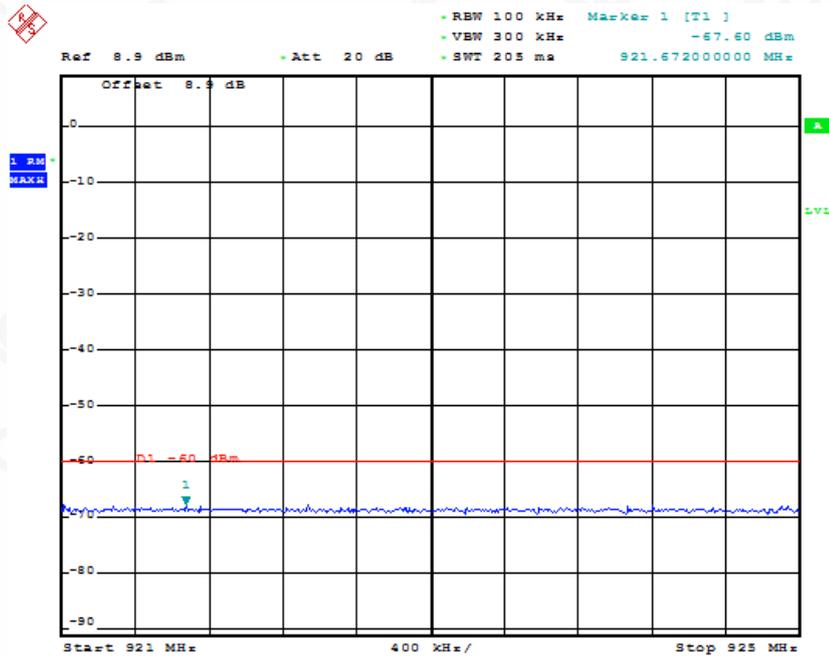
880MHZ~915MHZ



AAA

Date: 16.OCT.2019 17:58:03

921MHZ~925MHZ



AAA

Date: 16.OCT.2019 17:58:29



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

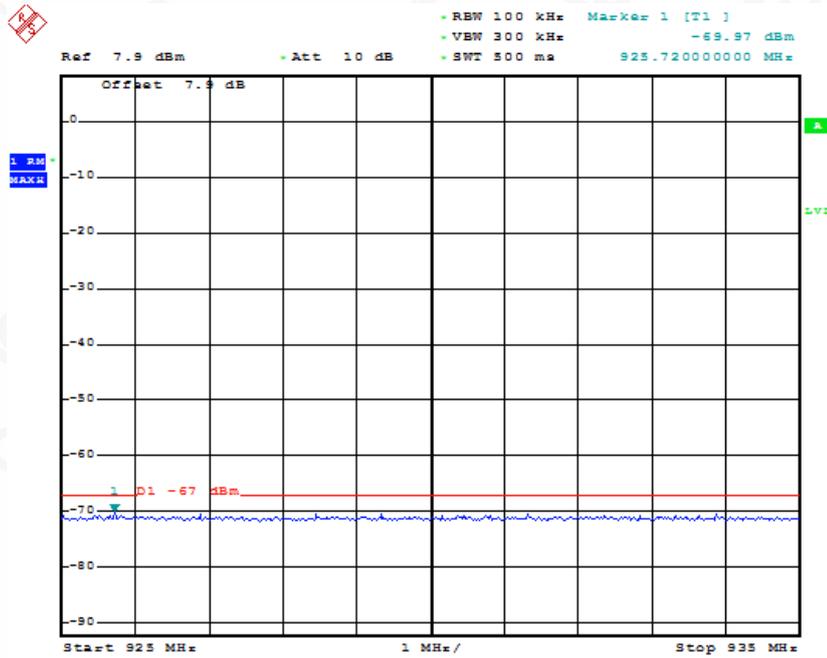
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

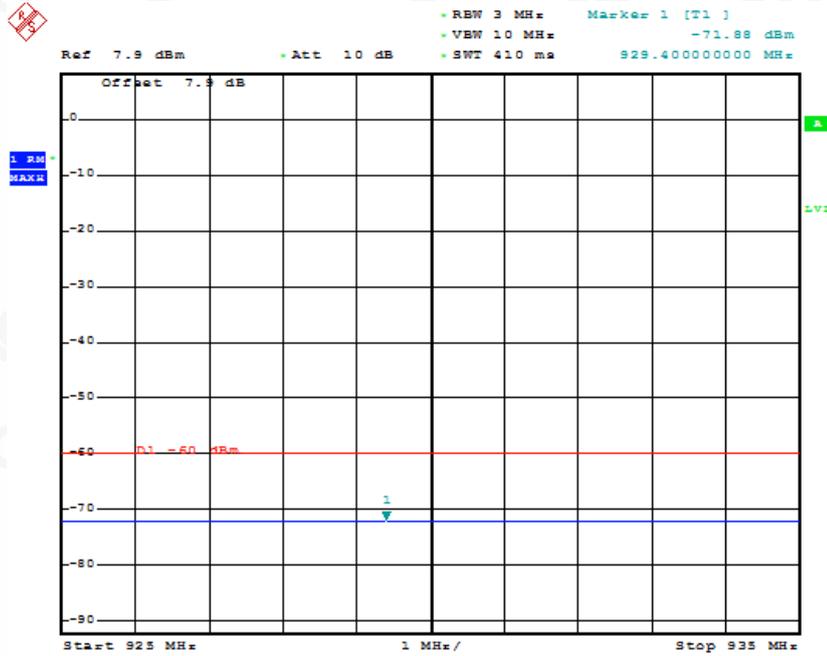
925MHZ~935MHZ



AAA

Date: 16.OCT.2019 17:58:48

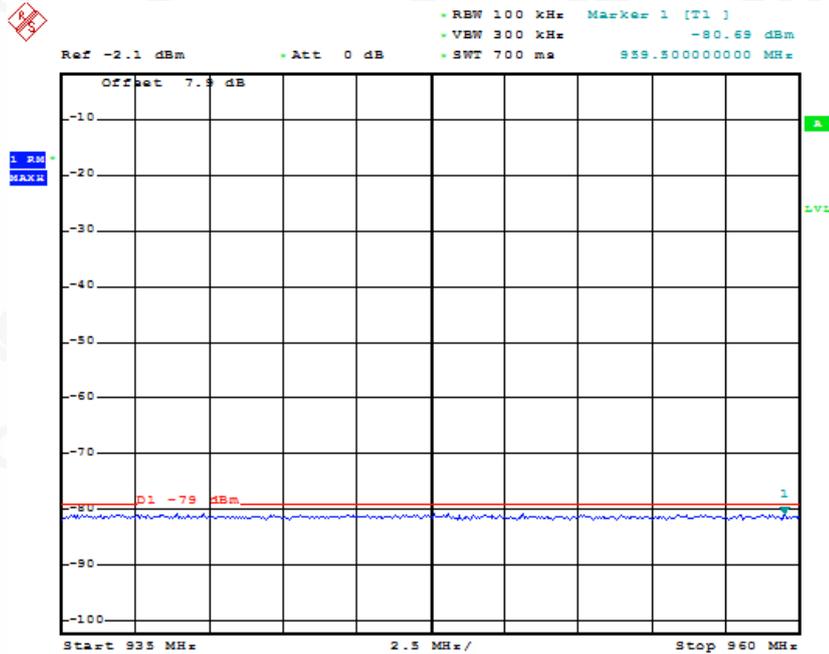
925MHZ~935MHZ



AAA

Date: 16.OCT.2019 17:59:26

935MHZ~960MHZ



AAA

Date: 16.OCT.2019 17:59:39



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

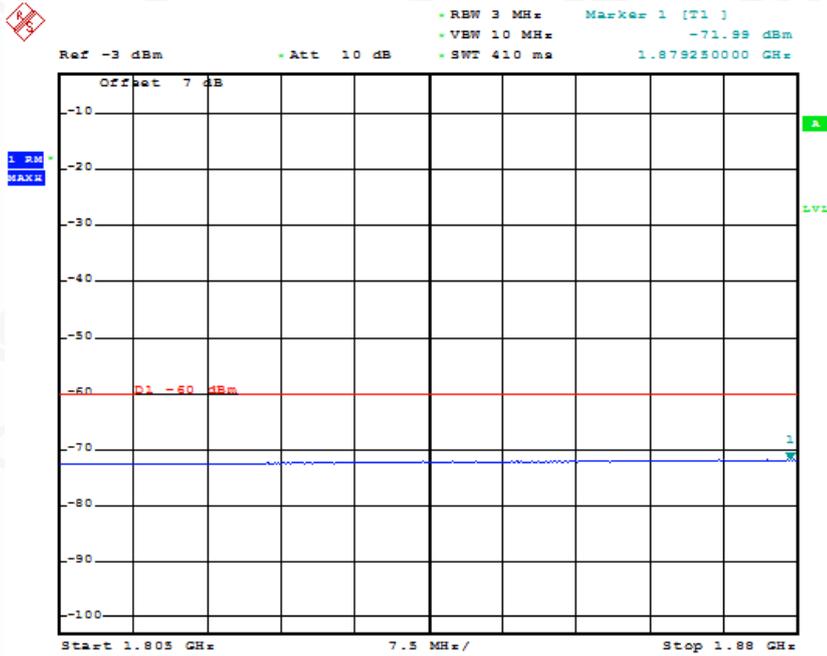
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

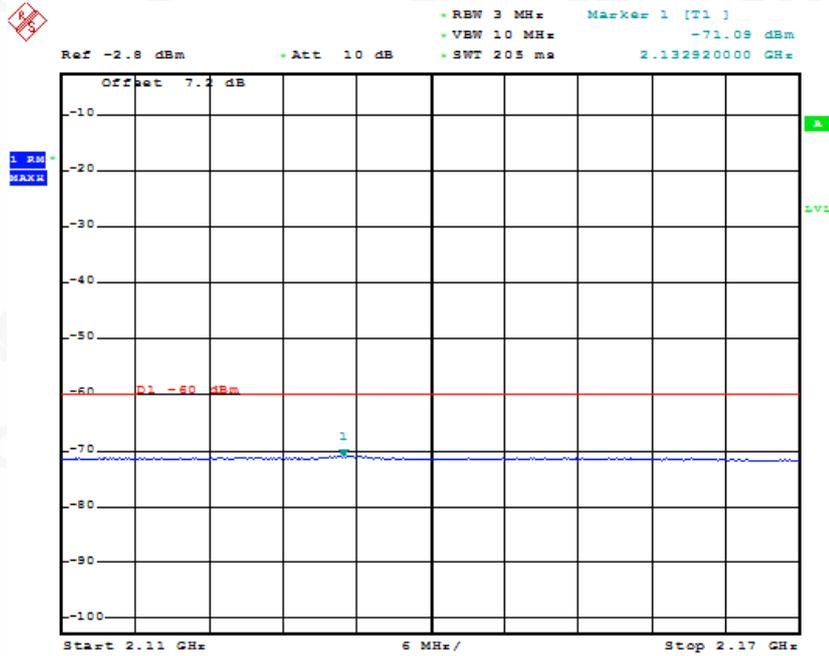
1805MHZ~1880MHZ



AAA

Date: 16.OCT.2019 18:00:17

2110MHZ~2170MHZ



AAA

Date: 16.OCT.2019 18:00:42



Attestation of Global Compliance

Attestation of Global Compliance(Shenzhen)Co.,Ltd.

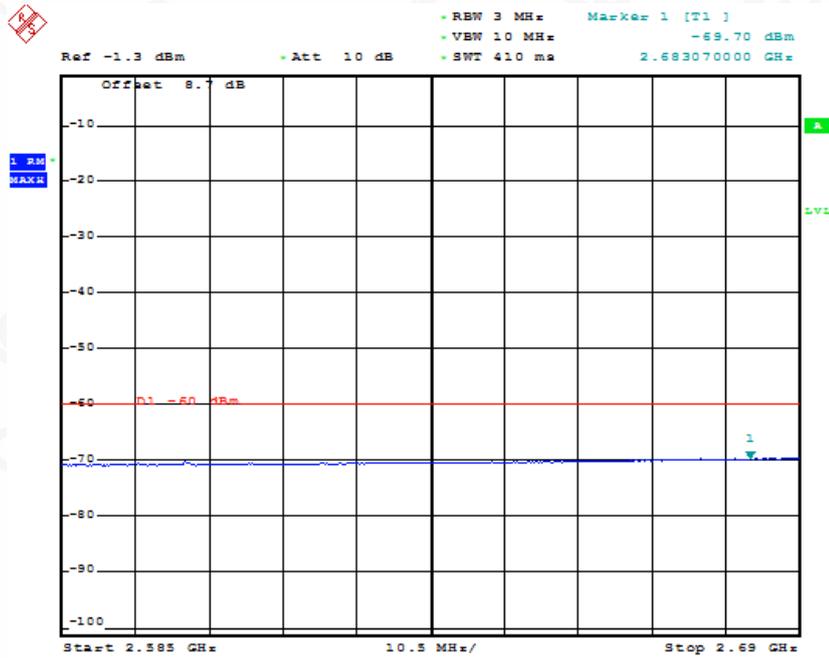
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

2585MHZ~2690MHZ



AAA

Date: 16.OCT.2019 18:01:01



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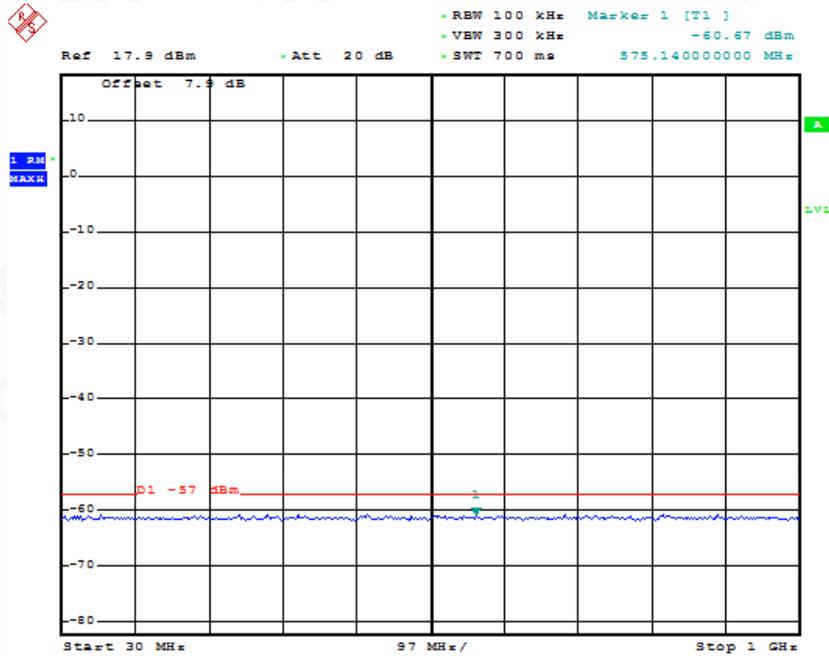
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

**Channel HCH**  
30MHz~1GHz



AAA

Date: 16.OCT.2019 18:01:30



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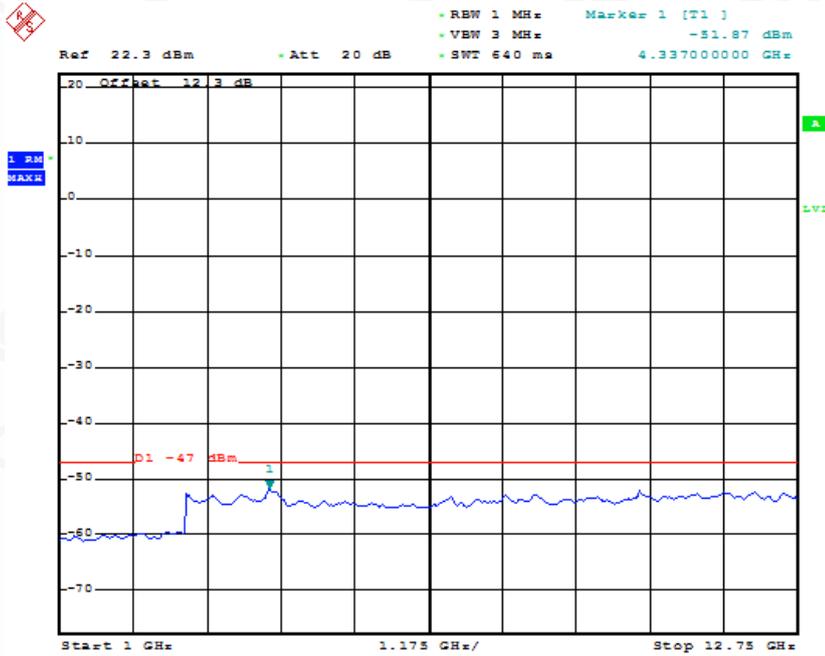
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

1GHZ~12.75GHZ



AAA

Date: 16.OCT.2019 18:01:49



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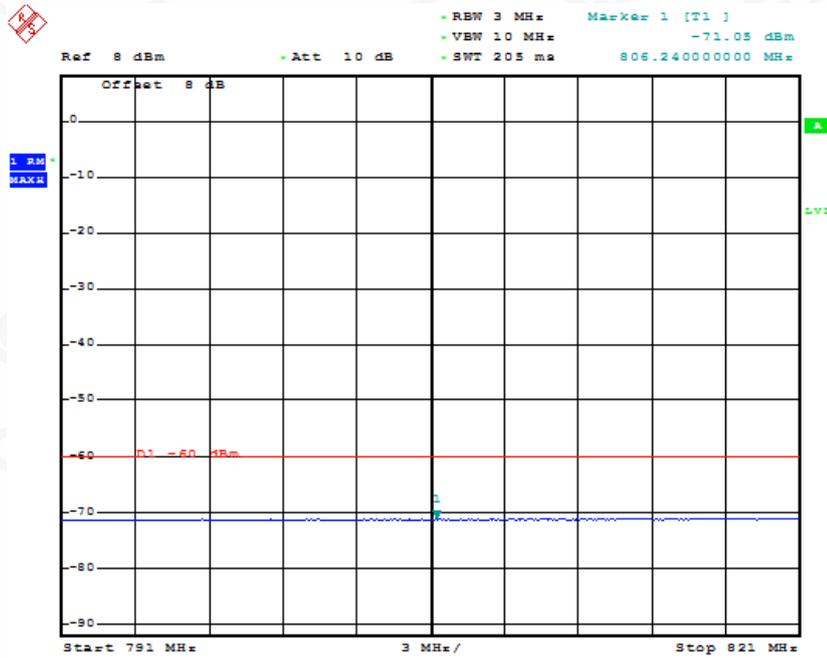
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

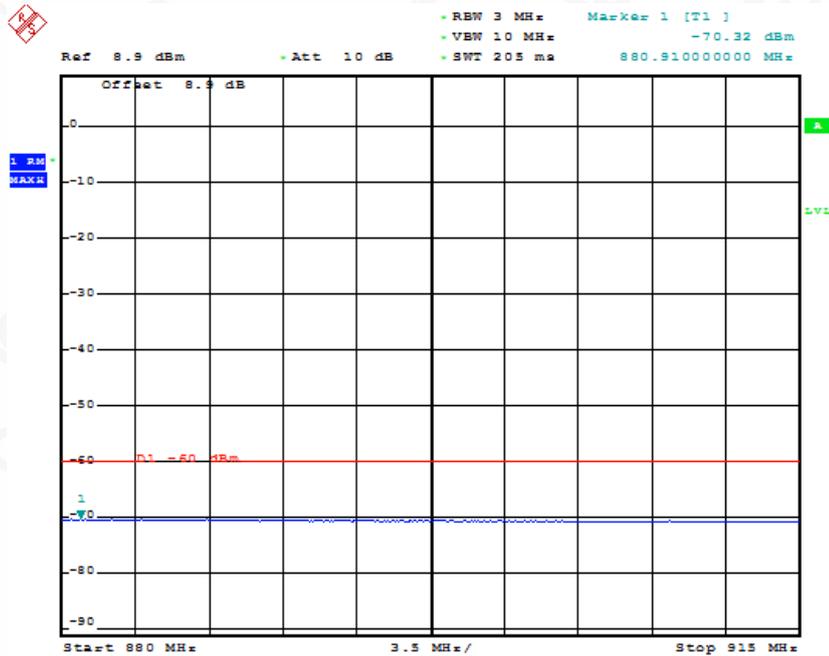
791MHZ~821MHZ



AAA

Date: 16.OCT.2019 18:02:15

880MHZ~915MHZ



AAA

Date: 16.OCT.2019 18:02:40



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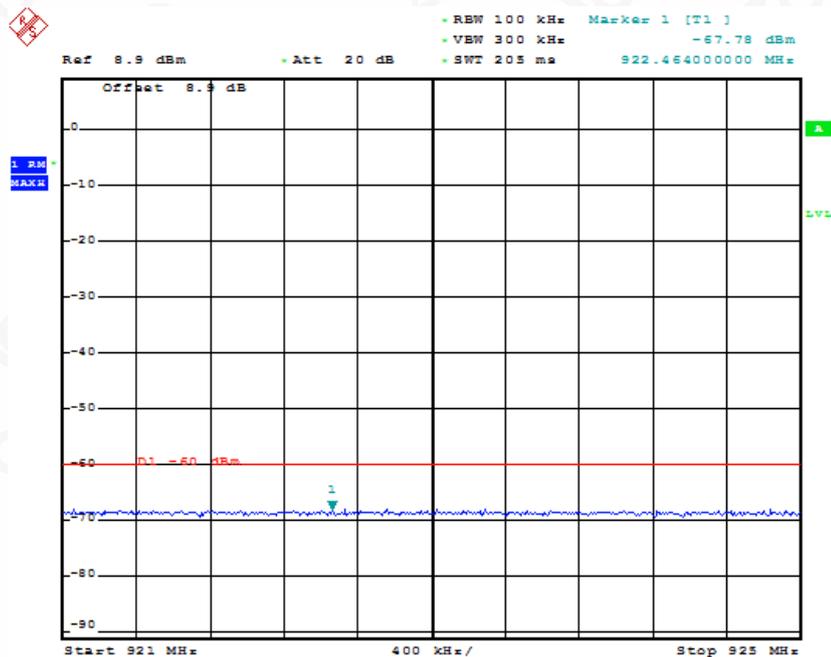
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

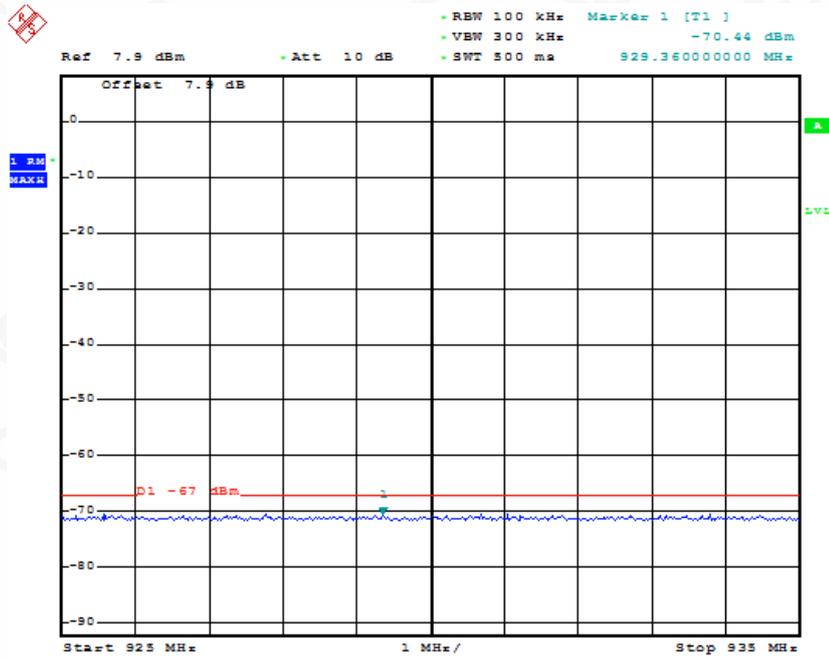
921MHZ~925MHZ



AAA

Date: 16.OCT.2019 18:03:06

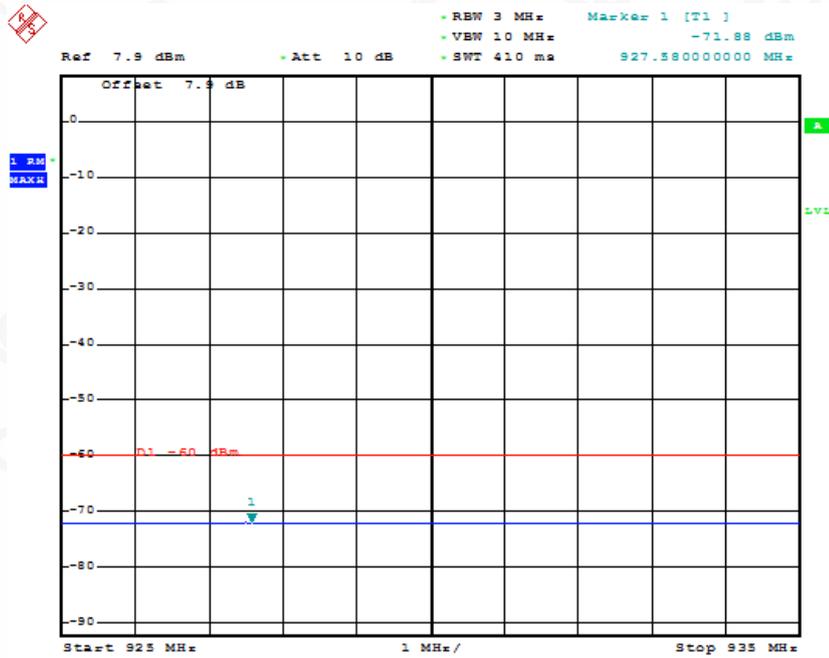
925MHZ~935MHZ



AAA

Date: 16.OCT.2019 18:03:25

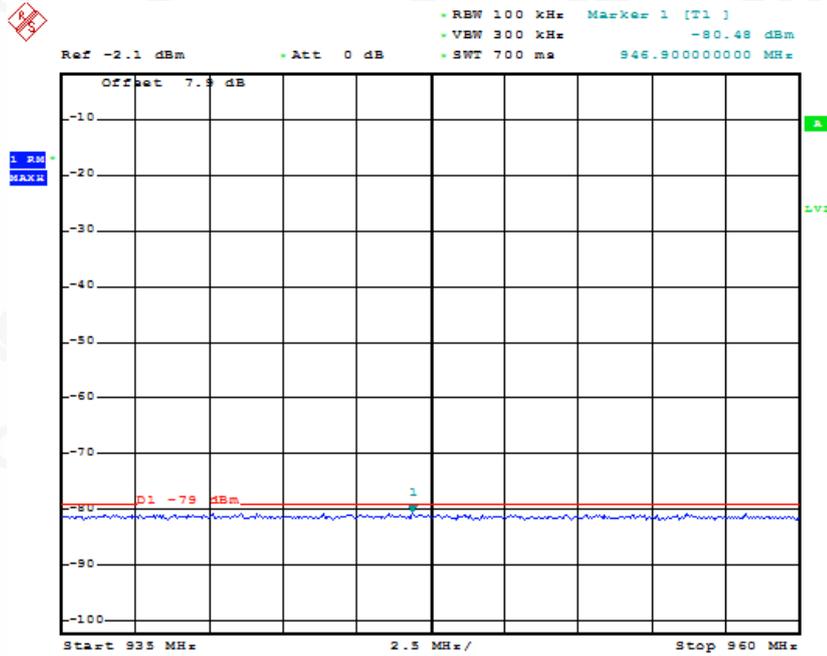
925MHZ~935MHZ



AAA

Date: 16.OCT.2019 18:04:03

935MHZ~960MHZ



AAA

Date: 16.OCT.2019 18:04:16



Attestation of Global Compliance

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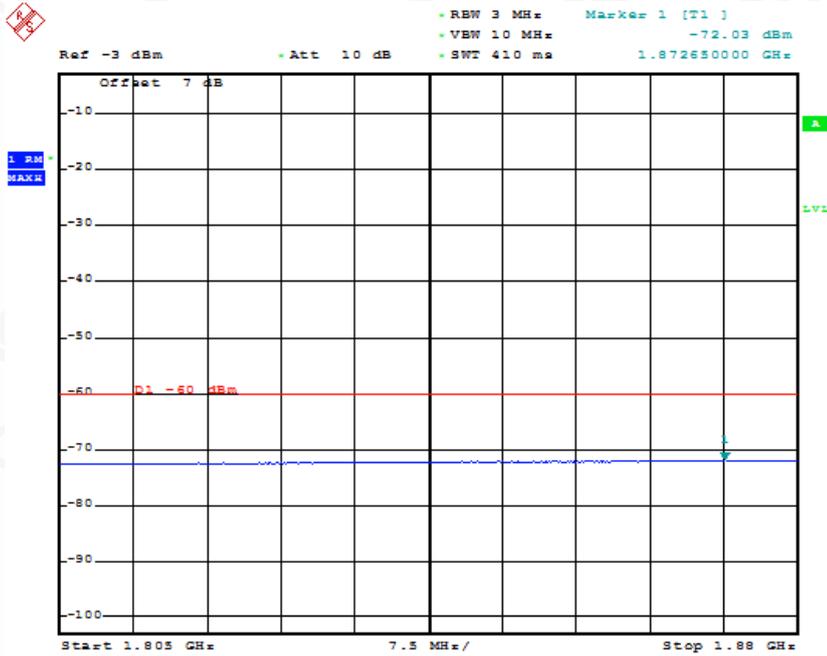
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

1805MHZ~1880MHZ



AAA

Date: 16.OCT.2019 18:04:54



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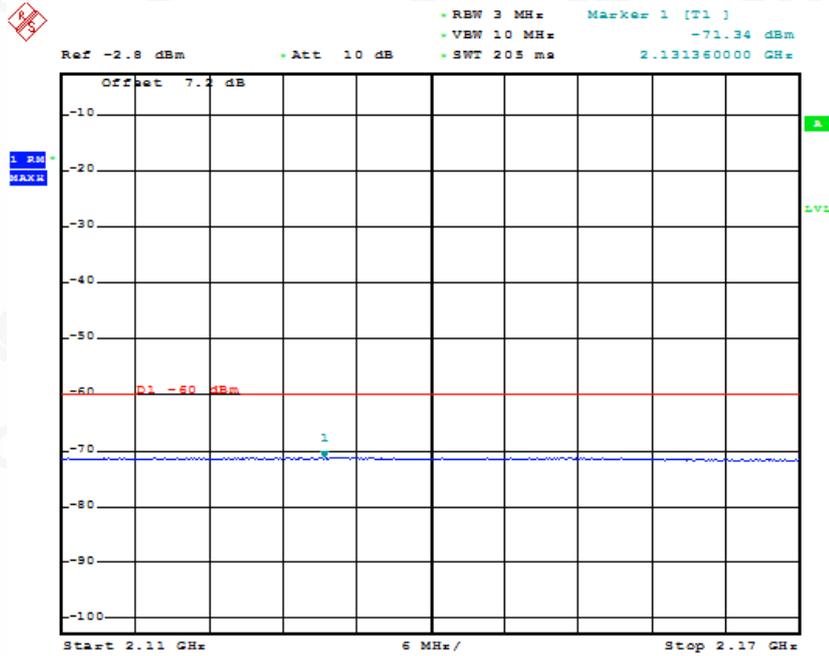
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,  
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline:400 089 2118

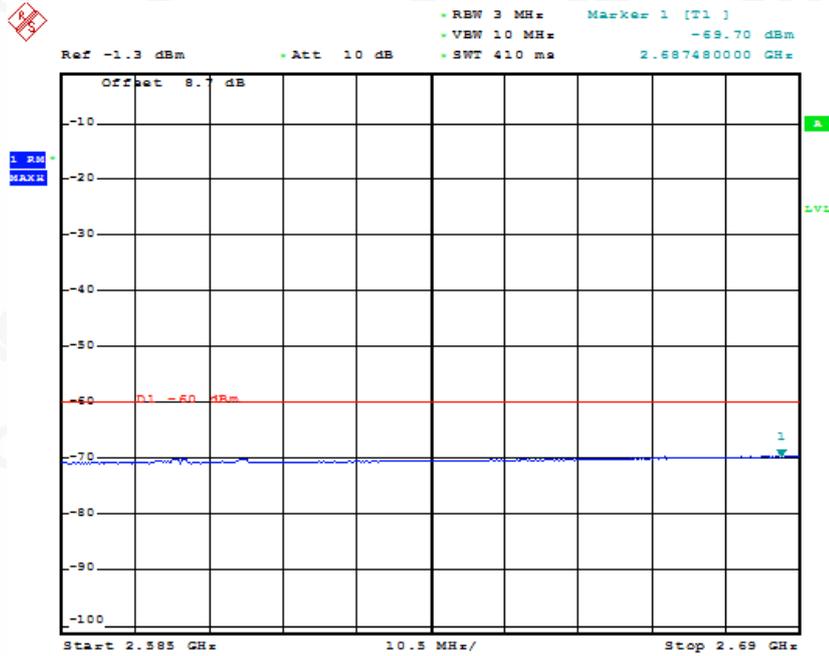
2110MHZ~2170MHZ



AAA

Date: 16.OCT.2019 18:05:19

2585MHZ~2690MHZ



AAA

Date: 16.OCT.2019 18:05:39

**Appendix M. Receiver channel selectivity(ACS)**

| WCDMA Band I                |      |          |          |
|-----------------------------|------|----------|----------|
| Parameter                   | Unit | Case 1   | Case 2   |
| loac 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     |

| WCDMA Band VIII |      |          |          |
|-----------------|------|----------|----------|
| Parameter       | Unit | Case 1   | Case 2   |
| loac mean power | dBm  | -52      | -25      |
| Fuw (offset)    | MHz  | +5 or -5 | +5 or -5 |
| UE transmitted  | 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  |
| BER                         | 0      | 0      |      |
| Result                      | Pass   | Pass   |      |

| WCDMA Band VIII             |        |        |      |
|-----------------------------|--------|--------|------|
| 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  |
| BER                         | 0      | 0      |      |
| Result                      | Pass   | Pass   |      |



### Appendix O. Receiver blocking characteristics

#### In-band Blocking Test

| WCDMA Band I                    |      |  |  |
|---------------------------------|------|--|--|
| Parameter                       | Unit | Level                                      |  |
| Blocking mean power (modulated) | dBm  | -56<br>(For F <sub>uw</sub> offset 10 MHz) | -44<br>(For F <sub>uw</sub> offset 10 MHz) |
| UE Transmitted mean power       | dBm  | 20 dBm                                     |  |
| F <sub>uw</sub>                 | MHz  | 2102.4 ≤ f ≤ 2177.6                        | 2095 ≤ f ≤ 2185                            |
| BER                             | %    | 0  | 0  |
| Result                          |      | Pass                                       | Pass                                       |

| WCDMA Band VIII                 |      |  |  |
|---------------------------------|------|--|--|
| Parameter                       | Unit | Level                                      |  |
| Blocking mean power (modulated) | dBm  | -56<br>(For F <sub>uw</sub> offset 10 MHz) | -44<br>(For F <sub>uw</sub> offset 10 MHz) |
| UE Transmitted mean power       | dBm  | 20 dBm                                     |  |
| F <sub>uw</sub>                 | MHz  | 917.4 ≤ f ≤ 967.6                          | 910 ≤ f ≤ 975                              |
| 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                              |
| F <sub>uw</sub>               | MHz  | 2050 < f < 2095<br>2185 < f < 2230 | 2025 < f ≤ 2050<br>2230 ≤ f < 2255 | 1 < f ≤ 2025<br>2255 ≤ f < 12750 |
| Spurious Response Frequencies | MHz  | NO                                 | NO                                 | NO                               |
| BER                           | %    | 0                                  | 0                                  | 0                                |
| Result                        |      | Pass                               | Pass                               | Pass                             |



| WCDMA Band VIII               |      |                                 |                                  |                                 |
|-------------------------------|------|---------------------------------|----------------------------------|---------------------------------|
| Parameter                     | Unit | Frequency range 1               | Frequency range 2                | Frequency range 3               |
| Blocking (cw)                 | dBm  | -44                             | -30                              | -15                             |
| Fuw                           | MHz  | 865 < f < 910<br>975 < f < 1020 | 840 < f ≤ 865<br>1020 ≤ f < 1045 | 1 < f ≤ 840<br>1045 ≤ 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   |

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



**Appendix P. 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   |      |

| WCDMA Band VIII           |                               |        |      |
|---------------------------|-------------------------------|--------|------|
| 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 Q. Out-of-synchronization handling of output power**

| WCDMA Band I           |       |      |      |
|------------------------|-------|------|------|
| Parameter              | Level |      | Unit |
| I or Ioc               | -1    |      | dB   |
| Ioc                    | -60   |      | dBm  |
| <u>DPDCH Ec</u><br>Ior | -19,6 |      | dB   |
| Result                 | Pass  | Pass |      |

| WCDMA Band VIII        |       |      |      |
|------------------------|-------|------|------|
| Parameter              | Level |      | Unit |
| I or Ioc               | -1    |      | dB   |
| Ioc                    | -60   |      | dBm  |
| <u>DPDCH Ec</u><br>Ior | -19,6 |      | dB   |
| Result                 | Pass  | Pass |      |



**Appendix R. Receiver Reference Sensitivity level**

| WCDMA Band I |           |              |                  |          |
|--------------|-----------|--------------|------------------|----------|
|              | Parameter | Unit         | DPCH_Ec<REFSENS> | <REFlor> |
|              |           | dBm/3.84 MHz | -116,3           | -106     |
| TNVN         | BER       | %            | 0                | 0        |
|              | Result    |              | Pass             | Pass     |
| TL,VL        | BER       | %            | 0                | 0        |
|              | Result    |              | Pass             | Pass     |
| TL,VH        | BER       | %            | 0                | 0        |
|              | Result    |              | Pass             | Pass     |
| TH,VL        | BER       | %            | 0                | 0        |
|              | Result    |              | Pass             | Pass     |
| TH,VH        | BER       | %            | 0                | 0        |
|              | Result    |              | Pass             | Pass     |

| WCDMA Band VIII |           |              |                  |          |
|-----------------|-----------|--------------|------------------|----------|
|                 | Parameter | Unit         | DPCH_Ec<REFSENS> | <REFlor> |
|                 |           | dBm/3.84 MHz | -116,3           | -106     |
| TNVN            | BER       | %            | 0                | 0        |
|                 | Result    |              | Pass             | Pass     |
| TL,VL           | BER       | %            | 0                | 0        |
|                 | Result    |              | Pass             | Pass     |
| TL,VH           | BER       | %            | 0                | 0        |
|                 | Result    |              | Pass             | Pass     |
| TH,VL           | BER       | %            | 0                | 0        |
|                 | Result    |              | Pass             | Pass     |
| TH,VH           | BER       | %            | 0                | 0        |
|                 | Result    |              | Pass             | Pass     |



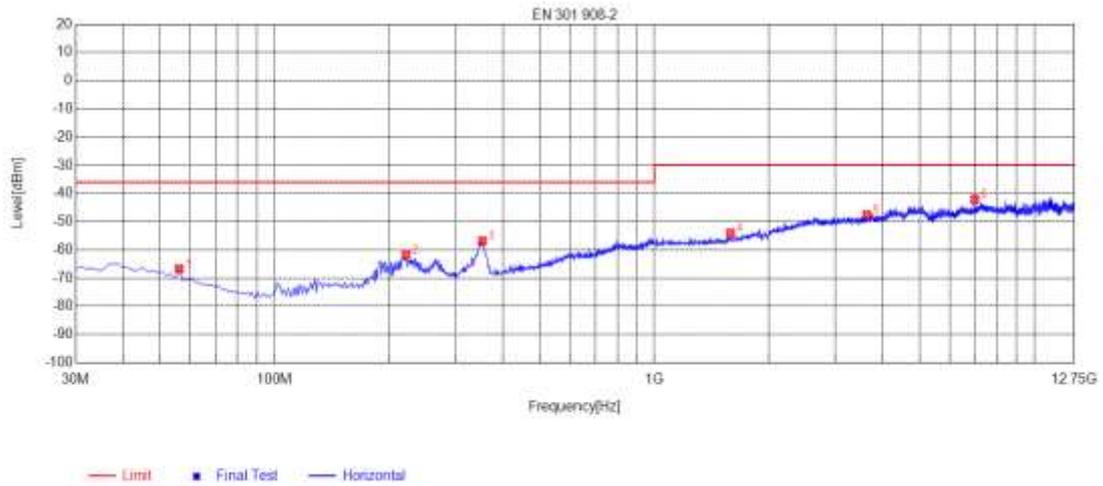
**Appendix S. Radiated spurious emissions - MS in idle mode**

| 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              | -64.15               | -64.15 | -67.74 | Pass   |
| 1 GHz ≤ f ≤ 12.75 GHz     | 1 MHz    | -47              | -57.24               | -53.58 | -58.69 | Pass   |
| 791 MHz ≤ f ≤ 821 MHz     | 3.84 MHz | -60              | -61.30               | -64.30 | -63.50 | Pass   |
| 921 MHz ≤ f < 925 MHz     | 100 kHz  | -60              | -71.44               | -71.40 | -74.34 | Pass   |
| 925 MHz ≤ f ≤ 935 MHz     | 100 kHz  | -67              | -73.05               | -73.33 | -76.24 | Pass   |
| 935 MHz < f ≤ 960 MHz     | 100 kHz  | -79              | -82.64               | -84.06 | -79.31 | Pass   |
| 1805MHz ≤ f ≤ 1880MHz     | 100 kHz  | -60              | -89.85               | -95.40 | -94.41 | Pass   |
| 1920MHz ≤ f ≤ 1980MHz     | 3.84 MHz | -60              | -64.66               | -66.14 | -66.60 | Pass   |
| 2 110 MHz ≤ f ≤ 2 170 MHz | 3.84 MHz | -60              | -66.45               | -68.84 | -60.45 | Pass   |
| 2 585 MHz ≤ f ≤ 2 690 MHz | 3.84 MHz | -60              | -63.27               | -64.55 | -62.31 | Pass   |

| Frequency                 | RBW      | Max .Level (dbm) | Test Band=Band VIII  |        |        | Result |
|---------------------------|----------|------------------|----------------------|--------|--------|--------|
|                           |          |                  | Test Conditions=TNVN |        |        |        |
|                           |          |                  | Test Channel         |        |        |        |
|                           |          |                  | LCH                  | MCH    | HCH    |        |
| 30 MHz ≤ f < 1 GHz        | 100 kHz  | -57              | -63.16               | -63.17 | -63.40 | Pass   |
| 1 GHz ≤ f ≤ 12.75 GHz     | 1 MHz    | -47              | -53.28               | -55.85 | -57.51 | Pass   |
| 791 MHz ≤ f ≤ 821 MHz     | 3.84 MHz | -60              | -61.30               | -64.66 | -66.15 | Pass   |
| 921 MHz ≤ f < 925 MHz     | 100 kHz  | -60              | -67.48               | -68.70 | -63.70 | Pass   |
| 925 MHz ≤ f ≤ 935 MHz     | 100 kHz  | -67              | -74.50               | -74.41 | -75.16 | Pass   |
| 935 MHz < f ≤ 960 MHz     | 100 kHz  | -79              | -88.64               | -88.80 | -88.21 | Pass   |
| 1805MHz ≤ f ≤ 1880MHz     | 100 kHz  | -60              | -80.71               | -85.55 | -85.34 | Pass   |
| 1920MHz ≤ f ≤ 1980MHz     | 3.84 MHz | -60              | -66.64               | -62.64 | -62.46 | Pass   |
| 2 110 MHz ≤ f ≤ 2 170 MHz | 3.84 MHz | -60              | -60.85               | -61.84 | -61.50 | Pass   |
| 2 585 MHz ≤ f ≤ 2 690 MHz | 3.84 MHz | -60              | -66.39               | -65.37 | -65.39 | Pass   |

### Appendix T. Radiated spurious emissions test result

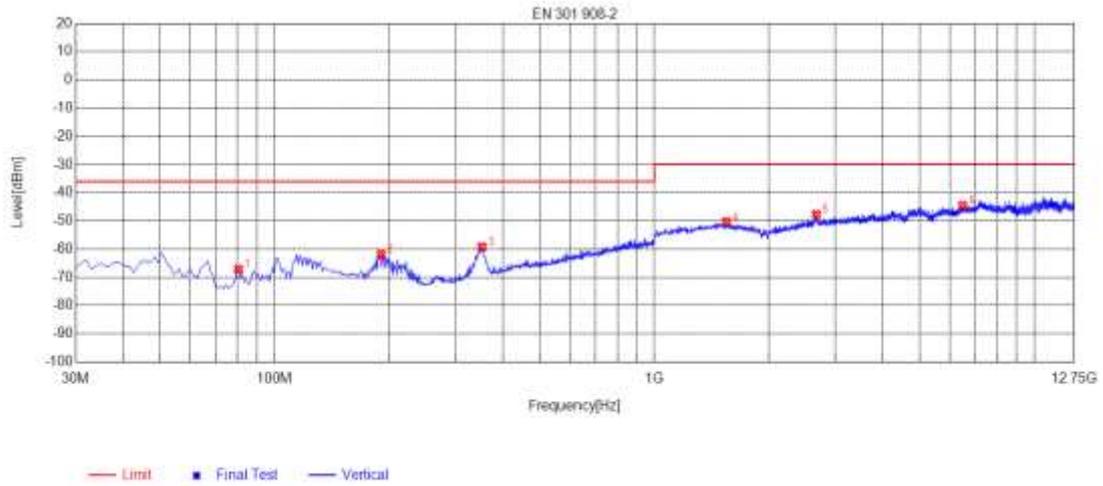
#### RADIATED SPURIOUS EMISSIONS UMTS BAND I – HORIZONTAL



| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Factor [dB] | Angle [°] | Polarity   |
|-----|-------------|---------------|-------------|-------------|-------------|-------------|-----------|------------|
| 1   | 56.1900     | -98.60        | -66.72      | -36.00      | 30.72       | 31.88       | 71        | Horizontal |
| 2   | 222.060     | -90.77        | -61.71      | -36.00      | 25.71       | 29.06       | 351       | Horizontal |
| 3   | 353.010     | -90.07        | -56.81      | -36.00      | 20.81       | 33.26       | 113       | Horizontal |
| 4   | 1587.61     | -51.52        | -54.07      | -30.00      | 24.07       | -2.55       | 199       | Horizontal |
| 5   | 3625.47     | -54.15        | -47.58      | -30.00      | 17.58       | 6.57        | 308       | Horizontal |
| 6   | 6977.24     | -53.79        | -42.14      | -30.00      | 12.14       | 11.65       | 341       | Horizontal |



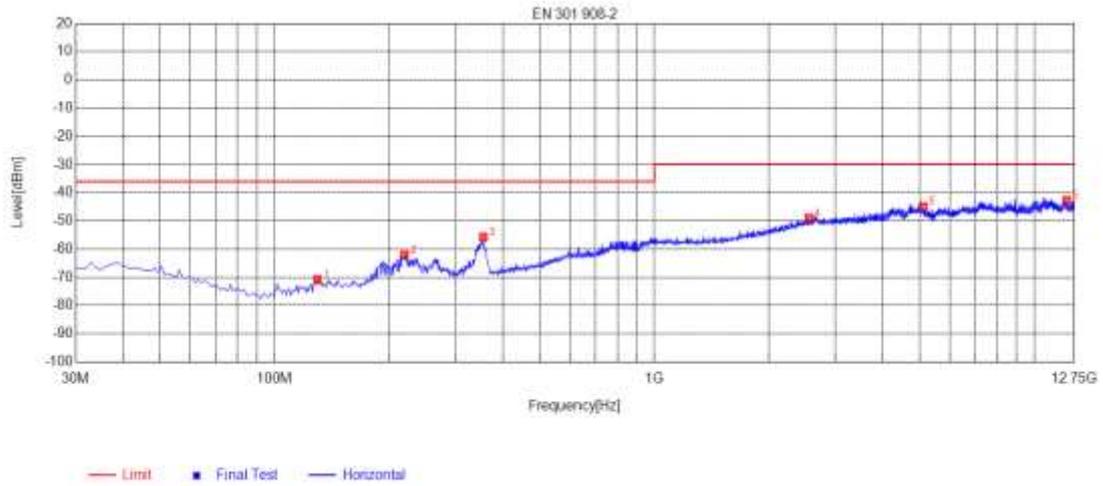
RADIATED SPURIOUS EMISSIONS UMTS BAND I –VERTICAL



| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Factor [dB] | Angle [°] | Polarity |
|-----|-------------|---------------|-------------|-------------|-------------|-------------|-----------|----------|
| 1   | 80.4400     | -95.79        | -67.17      | -36.00      | 31.17       | 28.62       | 163       | Vertical |
| 2   | 191.020     | -90.43        | -61.86      | -36.00      | 25.86       | 28.57       | 1         | Vertical |
| 3   | 352.040     | -92.29        | -59.25      | -36.00      | 23.25       | 33.04       | 19        | Vertical |
| 4   | 1547.65     | -52.36        | -50.37      | -30.00      | 20.37       | 1.99        | 154       | Vertical |
| 5   | 2668.83     | -51.88        | -47.76      | -30.00      | 17.76       | 4.12        | 137       | Vertical |
| 6   | 6488.34     | -56.24        | -44.61      | -30.00      | 14.61       | 11.63       | 360       | Vertical |



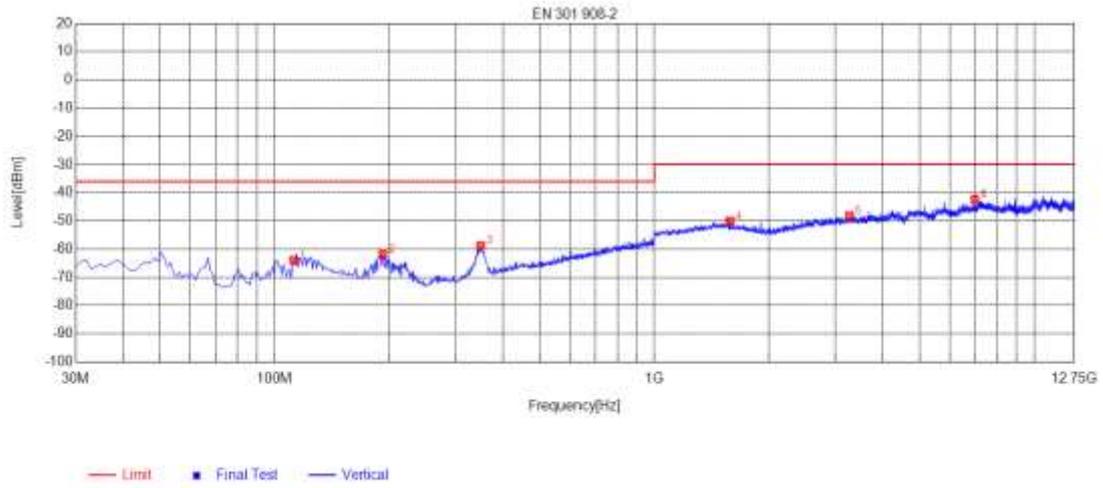
RADIATED SPURIOUS EMISSIONS UMTS BAND VIII – HORIZONTAL



| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Factor [dB] | Angle [°] | Polarity   |
|-----|-------------|---------------|-------------|-------------|-------------|-------------|-----------|------------|
| 1   | 129.910     | -98.28        | -70.85      | -36.00      | 34.85       | 27.43       | 7         | Horizontal |
| 2   | 220.120     | -90.83        | -62.09      | -36.00      | 26.09       | 28.74       | 351       | Horizontal |
| 3   | 354.950     | -89.04        | -55.73      | -36.00      | 19.73       | 33.31       | 107       | Horizontal |
| 4   | 2551.31     | -53.56        | -49.03      | -30.00      | 19.03       | 4.53        | 31        | Horizontal |
| 5   | 5106.27     | -54.72        | -44.94      | -30.00      | 14.94       | 9.78        | 0         | Horizontal |
| 6   | 12169.4     | -60.23        | -42.73      | -30.00      | 12.73       | 17.50       | 232       | Horizontal |



RADIATED SPURIOUS EMISSIONS UMTS BAND VIII –VERTICAL



| NO. | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Factor [dB] | Angle [°] | Polarity |
|-----|-------------|---------------|-------------|-------------|-------------|-------------|-----------|----------|
| 1   | 112.450     | -95.60        | -63.98      | -36.00      | 27.98       | 31.62       | 94        | Vertical |
| 2   | 192.960     | -90.00        | -61.78      | -36.00      | 25.78       | 28.22       | 27        | Vertical |
| 3   | 349.130     | -91.71        | -58.79      | -36.00      | 22.79       | 32.92       | 60        | Vertical |
| 4   | 1582.91     | -51.96        | -50.09      | -30.00      | 20.09       | 1.87        | 186       | Vertical |
| 5   | 3261.15     | -53.91        | -48.26      | -30.00      | 18.26       | 5.65        | 186       | Vertical |
| 6   | 6979.59     | -54.61        | -42.47      | -30.00      | 12.47       | 12.14       | 271       | Vertical |



**APPENDIX U: PHOTOGRAPHS OF TEST SETUP**  
**RADIATED SPURIOUS EMISSION TEST SETUP**



**RADIATED SPURIOUS EMISSION ABOVE 1G TEST SETUP**



**----END OF REPORT----**



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