

RF Test Report

Report No.: AGC00552190802EE07

PRODUCT DESIGNATION : Smart Phone
BRAND NAME : CUBOT
MODEL NAME : X20 PRO
APPLICANT : Shenzhen Huafurui Technology Co., Ltd.
DATE OF ISSUE : Sep. 20, 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	/	Sep. 20, 2019	Valid	Initial release



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1. TEST REPORT CERTIFICATION

Applicant	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 1401 & 1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen, P.R. China
Manufacturer	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 1401 & 1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen, P.R. China
Factory Name	Shenzhen Huafurui Technology Co., Ltd.
Address	Unit 1401 & 1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden), Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district, Shenzhen, P.R. China
Product Designation	Smart Phone
Brand Name	CUBOT
Test Model	X20 PRO
Date of test	Aug. 20, 2019 to Sep. 18, 2019
Deviation	None
Condition of Test Sample	Normal
Report Template	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.

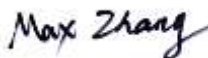
Prepared By



Donjon Huang
(Project Engineer)

Sep. 18, 2019

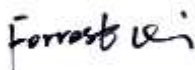
Reviewed By



Max Zhang
(Reviewer)

Sep. 20, 2019

Approved By



Forrest Lei
(Authorized Officer)

Sep. 20, 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:

Product Name	Smart Phone
Brand Name	CUBOT
Test Model	X20 PRO
Product Type	UMTS
Hardware Version	E966_MAIN_PCB_V1.0
Software Version	CUBOT_X20 PRO_9071C_V01_20190807
UMTS Frequency Bands	<input checked="" type="checkbox"/> FDD Band I <input checked="" type="checkbox"/> FDD Band VIII (EU Bands)
Modulation Mode	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK
Antenna Type	Hardware antenna
Antenna Gain	Band I:1.07dBi; Band VIII:0.65dBi
Power Class	FDD Band I:3, FDD Band VIII:3
GSM Release Version	N/A
SIM Card Description	There are dual-SIM cards, just one for GSM/WCDMA/LTE and the other only for GSM.

2.1.2. PHOTOGRAPHS OF THE EUT

Please see Photo report for photographs of the EUT.

2.1.3. IDENTIFICATION OF SAMPLES EUT

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

SAMPLE A01

Sample Reference Number	A01
Factory Name	Shenzhen Huafurui Technology Co., Ltd.
Test Model	X20 PRO
Product Type	FDD Band I, FDD Band VIII
Frequency Bands	HSDPA:QPSK/16QAM;HSUPA:BPSK WCDMA: QPSK

2.2. TYPE OF PICS/PIXIT INFORMATION

Item	Release	FDD (DS) RF Baseline Implementation capabilities	Support	Allowed Value	Comments
1	R99	Chip rate 3.84 Mbps	YES	Yes/No	--
2	R99	Frequency band: 1920-1980, 2110-2170 MHz	YES	Yes/No	Band I
3	R99	Frequency band: 1850-1910, 1930-1990 MHz	NO	Yes/No	Band II
9	R99	UE Power Class 1 (+33 dBm)	NO	Yes/No	--
10	R99	UE Power Class 2 (+27 dBm)	NO	Yes/No	--
11	R99	UE Power Class 3 (+24 dBm)	YES	Yes/No	--
12	R99	UE Power Class 4 (+21 dBm)	NO	Yes/No	--
14	R99	Frequency band: 1710-1785, 1805-1880 MHz	NO	Yes/No	Band III
15	R99	Frequency band: 1710-1755, 2110-2155 MHz	NO	Yes/No	Band IV
16	R99	Frequency band: 824-849, 869-894 MHz	NO	Yes/No	Band V
17	R99	Frequency band: 830-840, 875-885 MHz	NO	Yes/No	Band VI
18	R99	Frequency band: 2500-2570, 2620-2690 MHz	NO	Yes/No	Band VII
19	R99	Frequency band: 880-915, 925-960 MHz	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

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

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

LIST OF EQUIPMENTS USED OF AGC

No.	Type	Manufacturer	S/N	Cal. Date	Cal. Due
1	H & T Chamber ETH225-40A	Test EQ	WIT-05121302	Feb. 27, 2019	Feb. 26, 2020
2	CMU200	R&S	120237	Feb. 27, 2019	Feb. 26, 2020
3	Wireless communication test set 8960	Agilent	GB46200384	Jul. 11, 2019	Jul. 10, 2020
4	Power Splitter 11636A	Agilent	34	Sep.20, 2018	Sep.19, 2019
5	Attenuator	JFW	50FHC-006-50	Jun. 12, 2019	Jun. 11, 2020
6	Vector Signal Generator SMU200A	R&S	104332	Sep.20, 2018	Sep.19, 2019
7	VECTOR ANALYZER E4440A	Agilent	MY44303916	Jun. 12, 2019	Jun. 11, 2020
8	MXG Vector Signal Generator N5182A	AGILENT	MY50140530	Sep.20, 2018	Sep.19, 2019
9	PSG Analog Signal Generator E8257D	AGILENT	MY45141029	Sep.20, 2018	Sep.19, 2019
10	MXA Signal Analyzer N9020A	AGILENT	W1312-60196	Dec. 20, 2018	Dec. 19, 2019
11	Universal Switch Control Unit	JS TONSCEND	N/A	---	---
12	Programmable Power Supply PPT-1830	GW INSTEK	EM907629	Sep.20, 2018	Sep.19, 2019
13	DC Power Source	N/A	GBD-60V30A	Feb. 27, 2019	Feb. 26, 2020
14	Attenuator	JFW	50FHC-006-50	Jun. 12, 2019	Jun. 11, 2020
15	EMI Test Receiver ESCI	R&S	10096	Jun. 12, 2019	Jun. 11, 2020
16	Double-Ridged Waveguide Horn Antenna 3117	ETS LINDGREN	00034609	Mar. 01, 2018	Feb. 28, 2020
17	Trilog Broadband Antenna VULB 9168	SCHWARZBEC K	494	Mar. 01, 2018	Feb. 28, 2020
18	LOOP ANTENNA SAS-562B	A.H	/	Mar. 01, 2018	Feb. 28, 2020

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



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4. MEASUREMENT UNCERTAINTY

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

5. TEST RESULT

5.1. APPLIED REFERENCE DOCUMENTS

Leading reference documents for testing:

No.	Identity	Document Title
1	ETSI EN 301 908-1	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements
2	ETSI EN 301 908-2	IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)

Specific reference documents for testing:

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

5.2. TEST ENVIRONMENT/CONDITIONS

Normal Temperature (NT)	15 ... 35 °C
Relative Humidity	20 ... 75 %
Air Pressure	980 ... 1020 hPa
Adapter Test Model Name	HJ-0502000W2-EU
Details of Power Supply (Rated Input)	AC100-240V, 50/60Hz, 0.3A
Details of Power Supply (Rated Output)	DC5V, 2000mA
Extreme Temperature	Low Temperature (TL) = -10°C High Temperature (TH) = +40°C
Extreme Voltage of the EUT	Low Voltage = DC 3.45V Normal Voltage = DC 3.85V 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



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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


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	(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: All the SIM Cards had been tested, but the worst test result is SIM Card 1 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	25.47	24(+1.7/-3.7)	Pass
		MCH	25.51	24(+1.7/-3.7)	Pass
		HCH	25.54	24(+1.7/-3.7)	Pass
Band VIII	TNVN	LCH	24.55	24(+1.7/-3.7)	Pass
		MCH	24.57	24(+1.7/-3.7)	Pass
		HCH	25.12	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	-54.02	-49	Pass
		MCH	-54.36	-49	Pass
		HCH	-54.39	-49	Pass
Band VIII	TNVN	LCH	-54.73	-49	Pass
		MCH	-54.98	-49	Pass
		HCH	-54.69	-49	Pass



Appendix C. Transmitter spectrum emission mask

BAND I

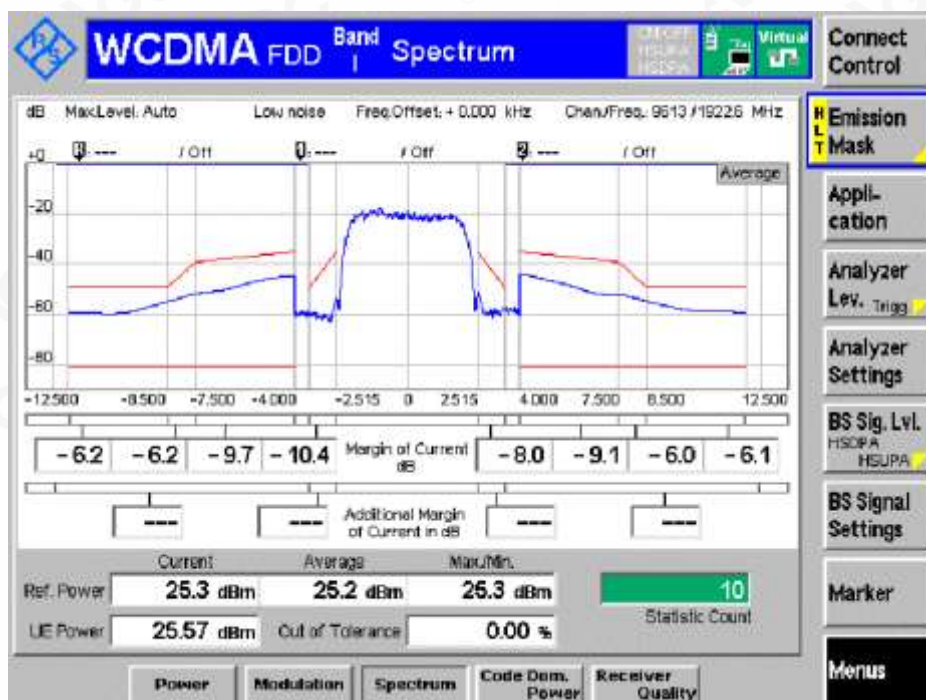
Operating Band	Test Conditions	Δf in MHz	Test Channel		
			LCH	MCH	HCH
Band I	TNVN	2.5-3.5	PASS	PASS	PASS
		3.5-7.5			
		7.5-8.5			
		8.5-12.5 MHz			

BAND VIII

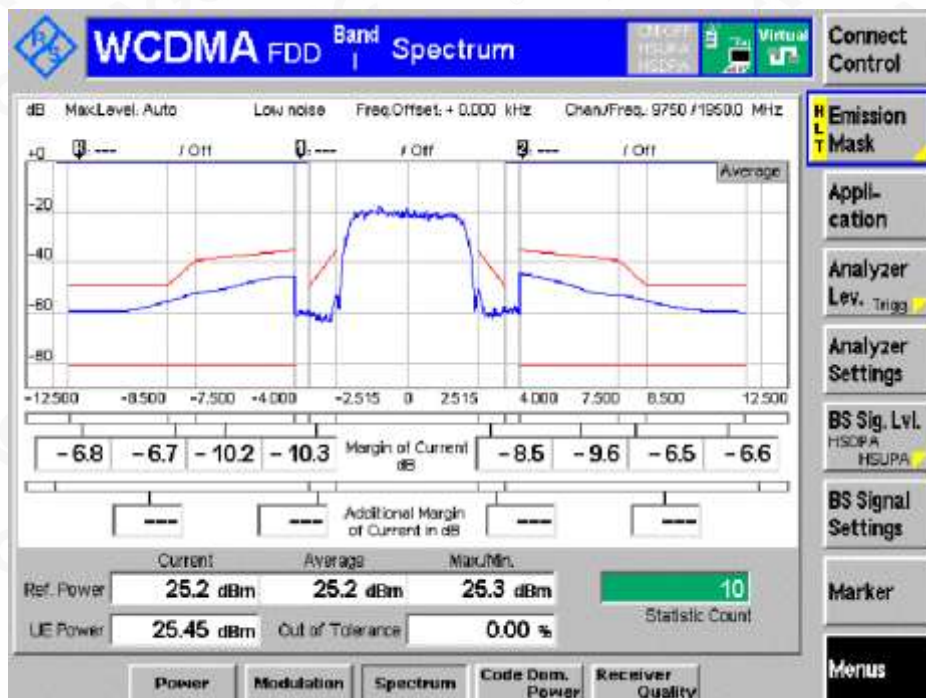
Operating Band	Test Conditions	Δf in MHz	Test Channel		
			LCH	MCH	HCH
Band VIII	TNVN	2.5-3.5	PASS	PASS	PASS
		3.5-7.5			
		7.5-8.5			
		8.5-12.5 MHz			

BAND I

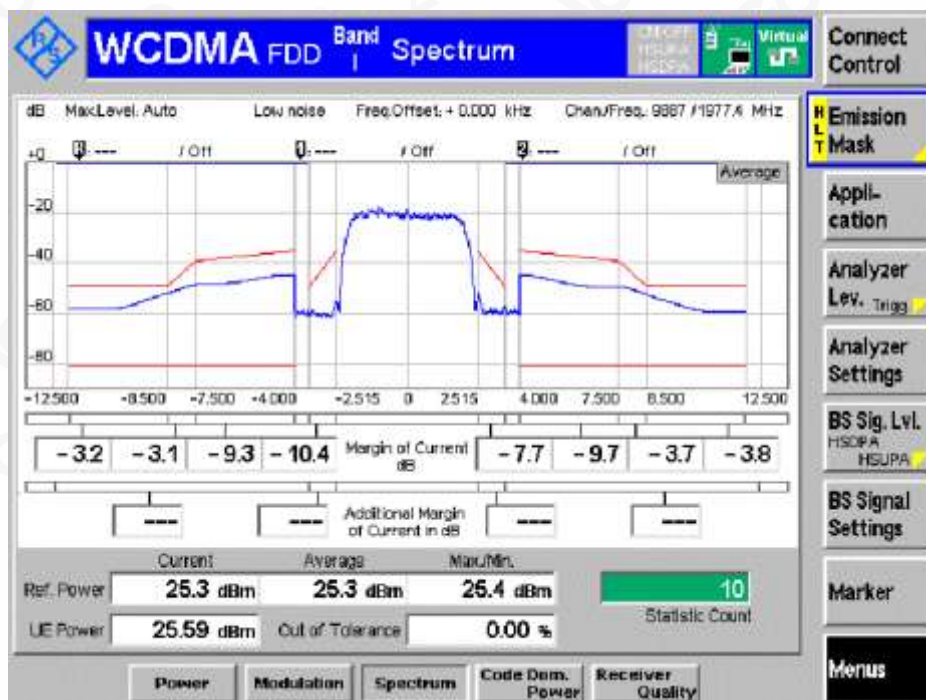
Channel LCH



Channel MCH

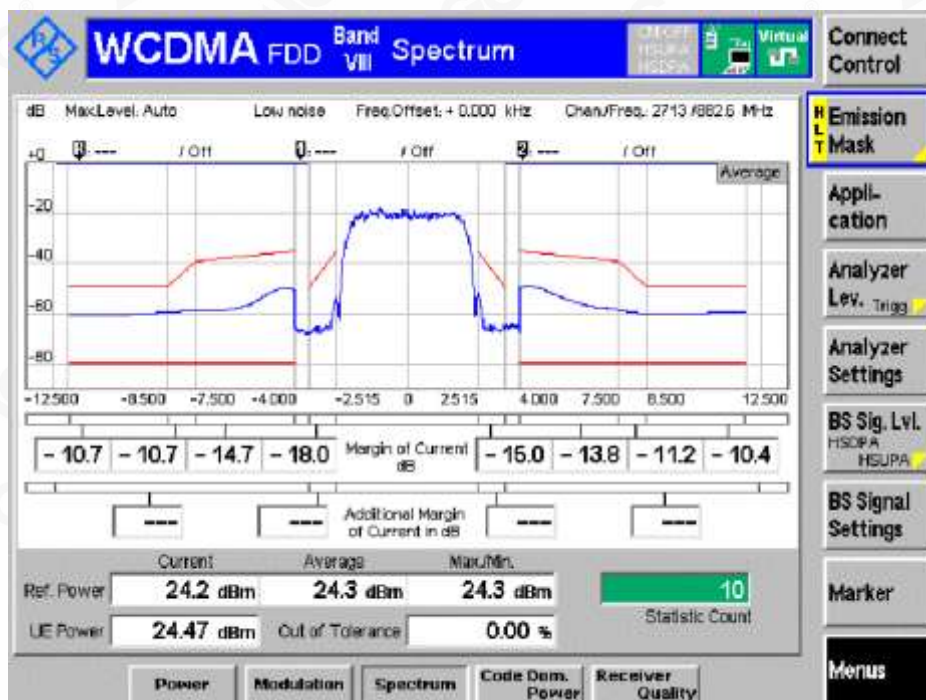


Channel HCH

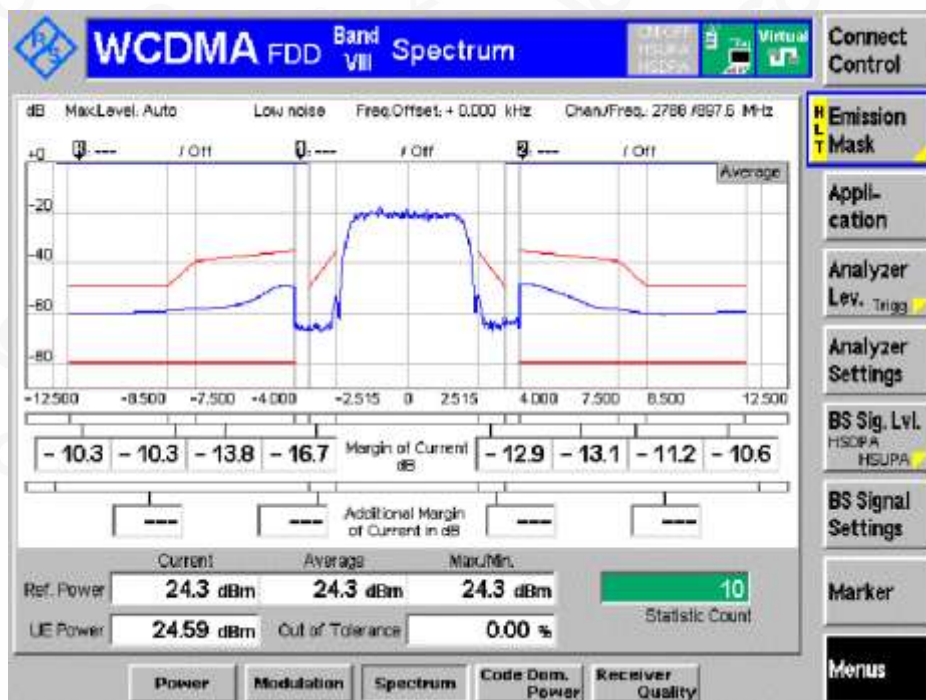


BAND VIII

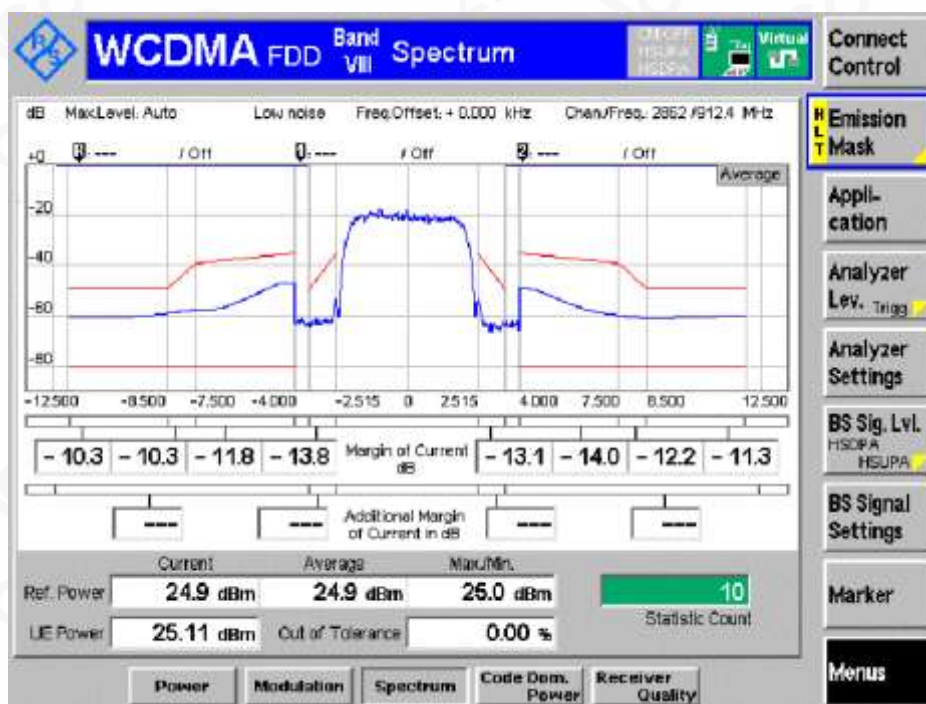
Channel LCH



Channel MCH



Channel HCH



Appendix D. Transmitter adjacent channel leakage power ratio

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

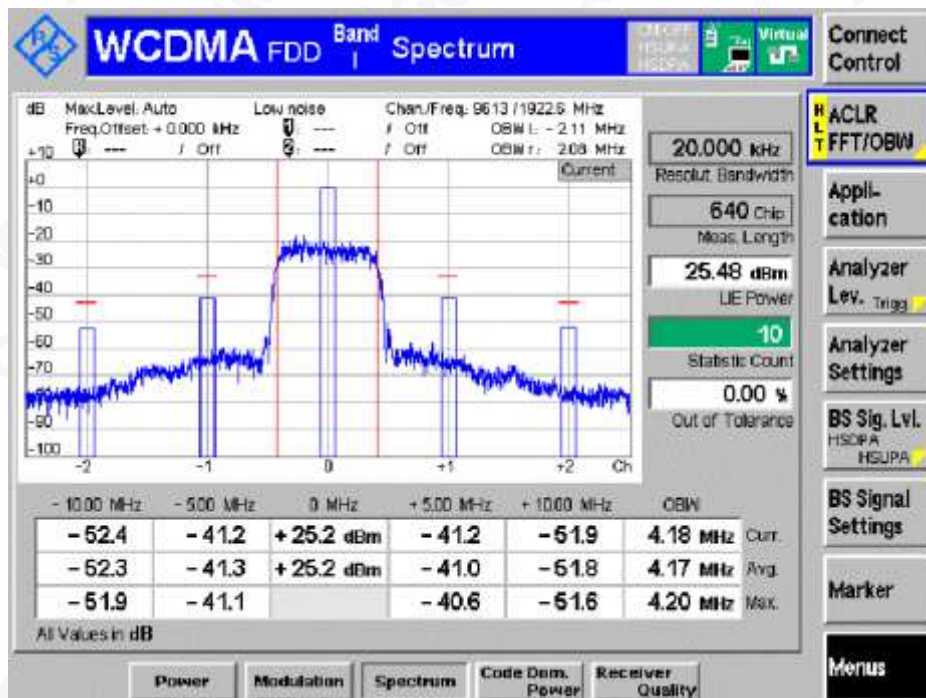
Operating Band	Test Conditions	Test Channel	UE Channel	Measurement Data(dBm)	Limit(dBm)	Result
Band I	TNVN	LCH	+5MHz	-41.02	-32.2	Pass
			-5 MHz	-41.32	-32.2	Pass
			-10 MHz	-52.25	-42.2	Pass
			+10 MHz	-51.81	-42.2	Pass
		MCH	+5MHz	-41.48	-32.2	Pass
			-5 MHz	-41.96	-32.2	Pass
			-10 MHz	-52.35	-42.2	Pass
			+10 MHz	-52.23	-42.2	Pass
		HCH	+5MHz	-40.79	-32.2	Pass
			-5 MHz	-40.38	-32.2	Pass
			-10 MHz	-49.91	-42.2	Pass
			+10 MHz	-50.71	-42.2	Pass
Band VIII	TNVN	LCH	+5MHz	-46.34	-32.2	Pass
			-5 MHz	-47.20	-32.2	Pass
			-10 MHz	-54.82	-42.2	Pass
			+10 MHz	-54.40	-42.2	Pass
		MCH	+5MHz	-45.41	-32.2	Pass
			-5 MHz	-46.69	-32.2	Pass
			-10 MHz	-54.46	-42.2	Pass
			+10 MHz	-54.59	-42.2	Pass
		HCH	+5MHz	-46.63	-32.2	Pass
			-5 MHz	-44.33	-32.2	Pass
			-10 MHz	-54.80	-42.2	Pass
			+10 MHz	-55.28	-42.2	Pass



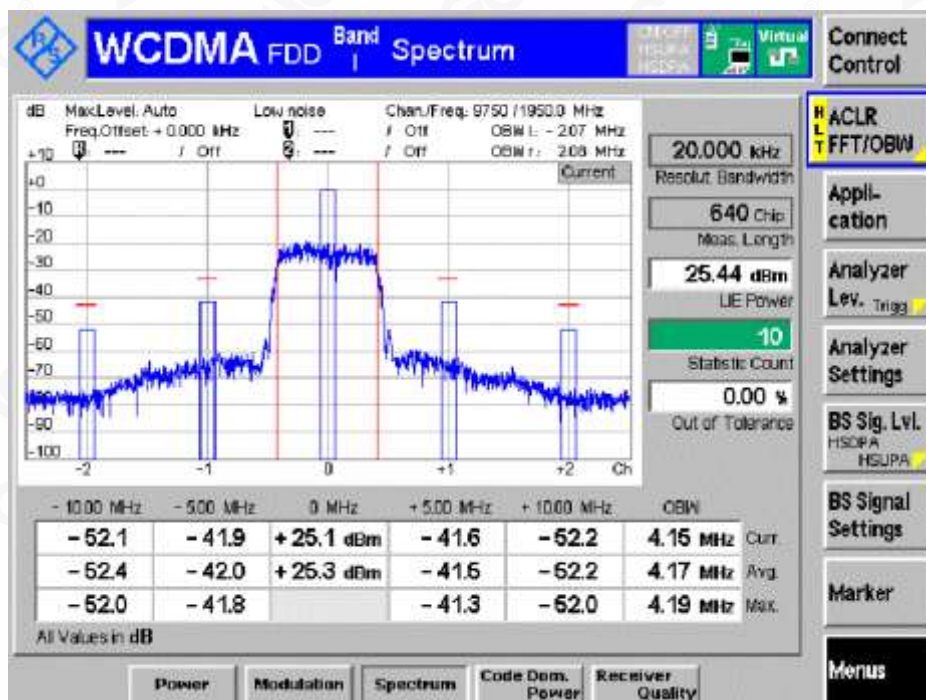
BAND I

TNPN

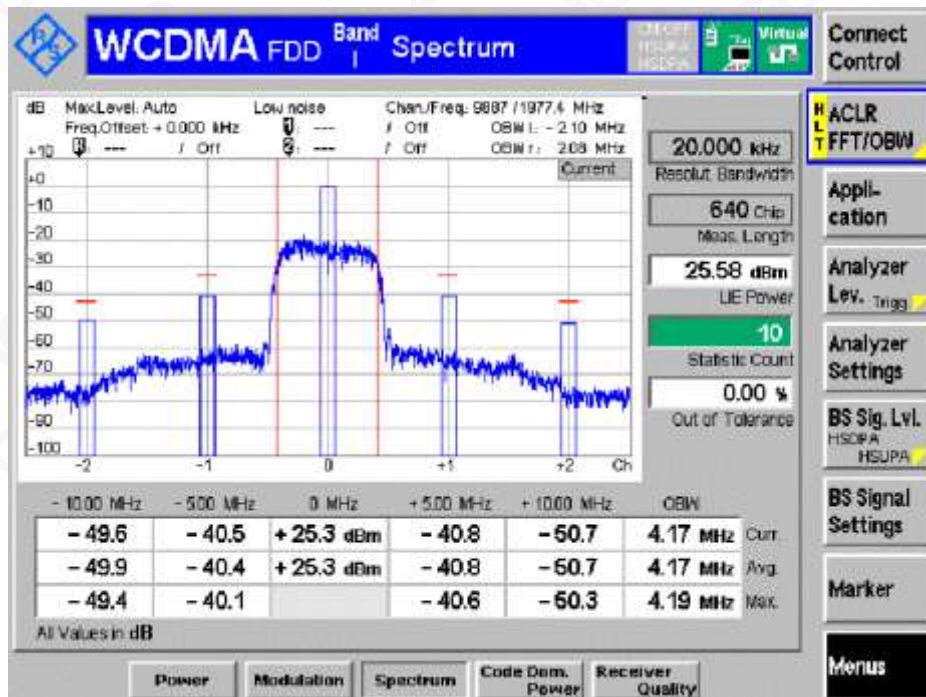
Channel LCH



Channel MCH



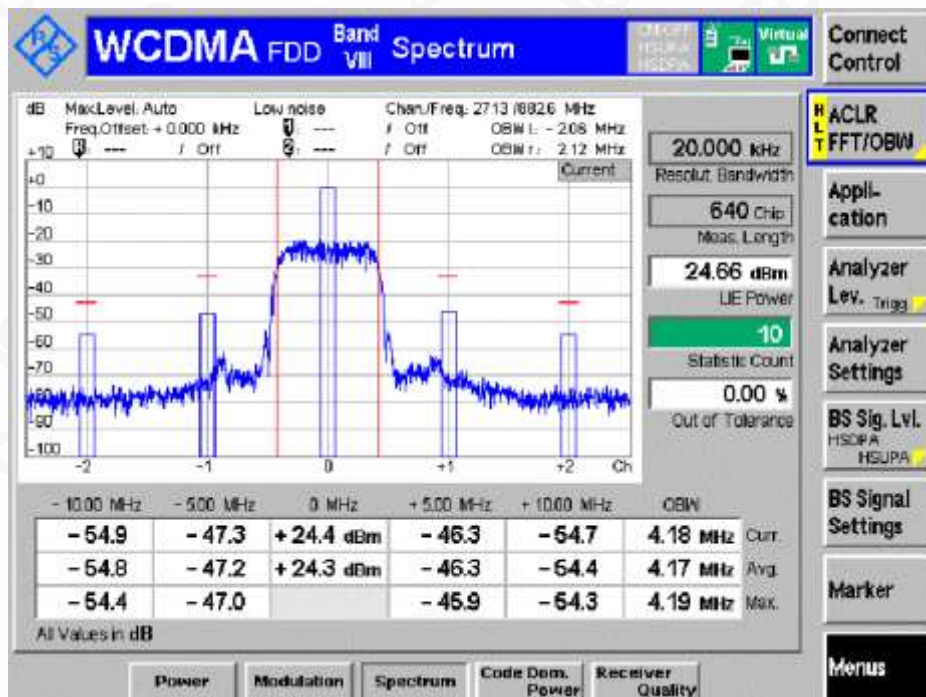
Channel HCH



BAND VIII

TNPN

Channel LCH



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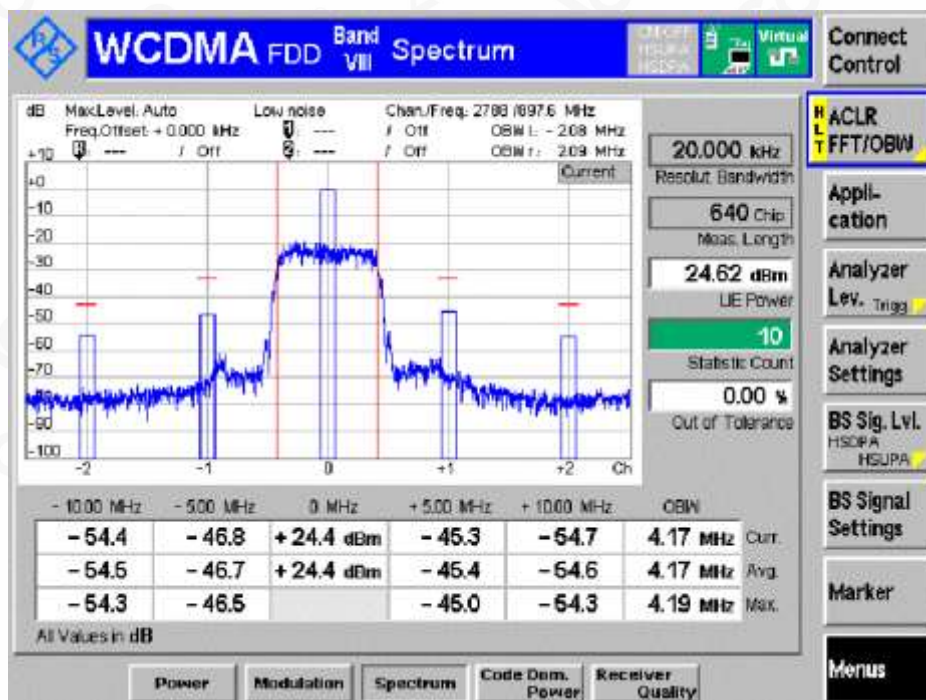
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

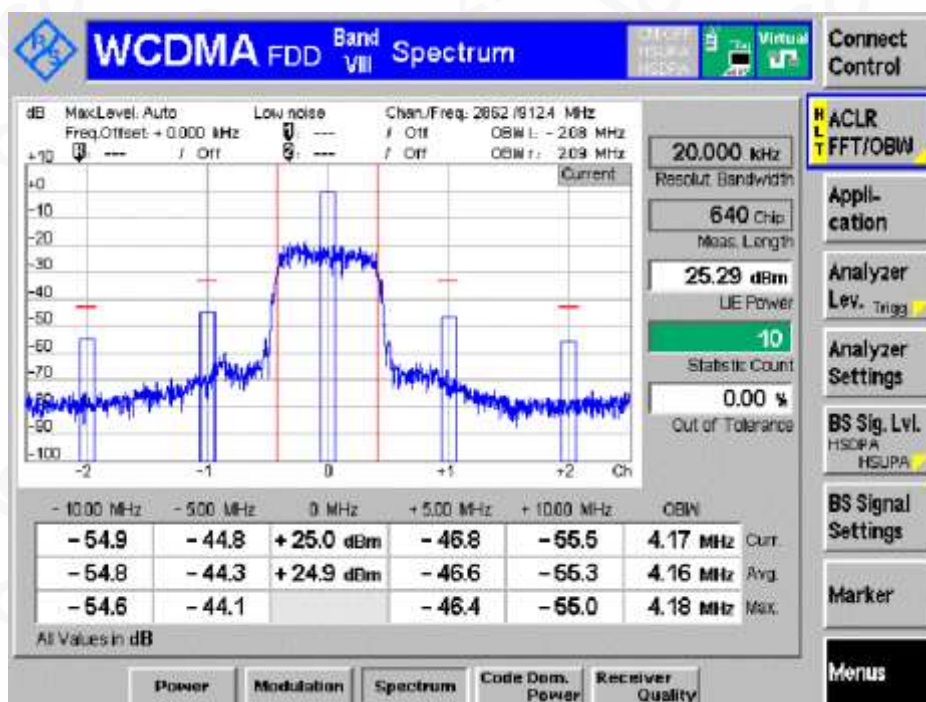
E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

Channel 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	-58.22	-57.95	-57.48	Pass
150 kHz ≤f < 30 MHz	10kHz	-36	-59.01	-59.60	-58.75	Pass
30 MHz ≤f < 1 000 MHz	100kHz	-36	-59.53	-59.64	-59.08	Pass
1 GHz ≤f < 12.750GHz	1 MHz	-30	-42.77	-42.83	-42.61	Pass
791 MHz ≤f ≤821 MHz	3.84MHz	-60	-64.03	-64.05	-63.96	Pass
921 MHz ≤f < 925 MHz	100 kHz	-60	-62.73	-62.49	-62.05	Pass
925 MHz ≤f ≤935 MHz	100 kHz	-67	-77.05	-77.17	-77.20	Pass
935 MHz < f ≤960 MHz	100 kHz	-79	-87.03	-87.00	-87.17	Pass
1 805 MHz ≤f ≤1 880MHz	100 kHz	-71	-83.19	-83.17	-83.02	Pass
2 110 MHz ≤f ≤2170 MHz	3.84MHz	-60	-68.82	-68.86	-68.79	Pass
2 585 MHz ≤f ≤2690 MHz	3.84MHz	-60	-66.20	-66.24	-66.14	Pass



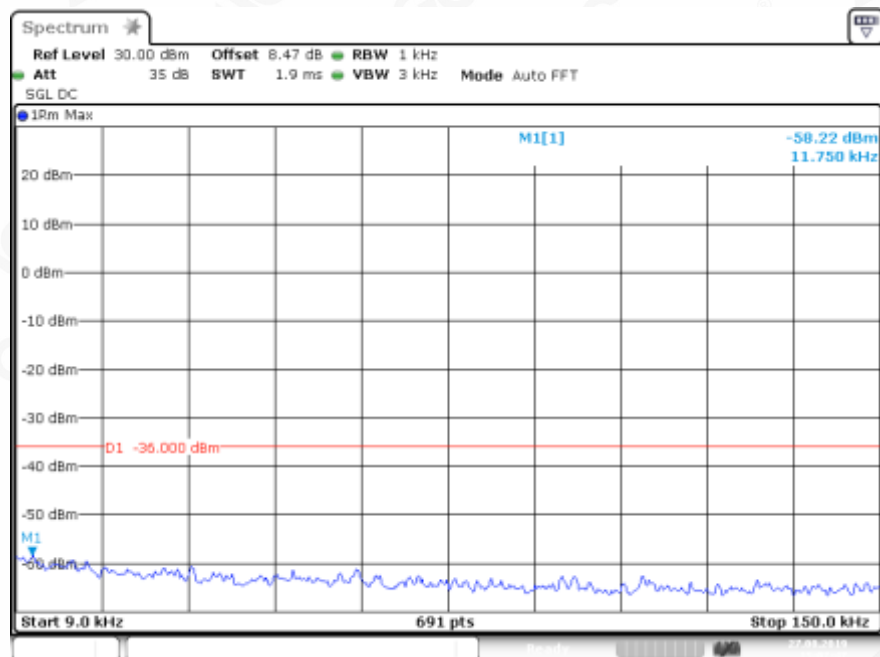
Frequency	RBW	Max. Level (dbm)	Test Band=Band VIII			Result
			Test Conditions=TNVN			
			Test Channel			
			LCH	MCH	HCH	
9 kHz ≤f < 150 kHz	1 kHz	-36	-57.97	-57.87	-57.66	Pass
150 kHz ≤f < 30 MHz	10 kHz	-36	-59.19	-59.40	-59.96	Pass
30 MHz ≤f < 1 000 MHz	100kHz	-36	-54.19	-52.81	-54.42	Pass
1 GHz ≤f < 12.75 GHz	1 MHz	-30	-43.00	-42.89	-42.80	Pass
791 MHz ≤f ≤821 MHz	3.84MHz	-60	-63.95	-63.97	-63.95	Pass
925MHz ≤f ≤935 MHz	100 kHz	-67	-73.81	-73.57	-72.17	Pass
	3.84MHz	-60	-69.17	-69.25	-69.21	Pass
935MHz ≤f ≤960 MHz	100KHz	-79	-87.08	-87.01	-87.02	Pass
	3.84MHz	-60	-69.22	-69.22	-69.23	Pass
1805MHz ≤f ≤1830 MHz	100KHz	-71	-82.78	-82.84	-82.88	Pass
	3.84MHz	-60	-69.54	-69.52	-69.47	Pass
1830MHz ≤f ≤1880 MHz	100KHz	-71	-82.80	-82.91	-83.07	Pass
	3.84MHz	-60	-63.72	-63.82	-63.80	Pass
2110MHz ≤f≤2170MHz	3.84MHz	-60	-68.75	-68.77	-68.79	Pass
2 585 MHz ≤f ≤2 640 MHz	3.84MHz	-60	-65.77	-65.79	-65.81	Pass
2 640 MHz ≤f ≤2 690 MHz	3.84MHz	-60	-66.17	-66.19	-66.08	Pass



BAND I

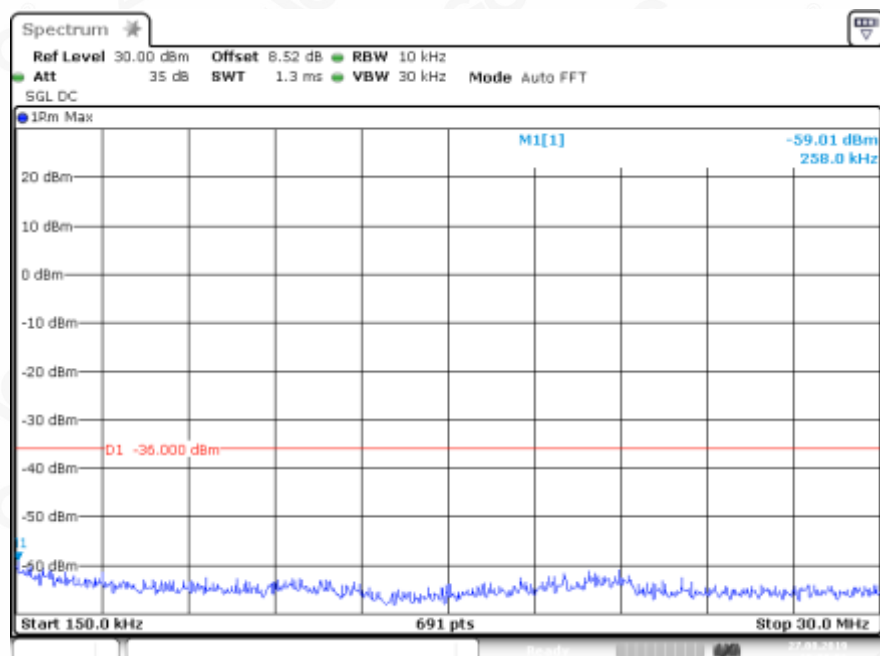
Channel LCH

9KHZ~150KHZ



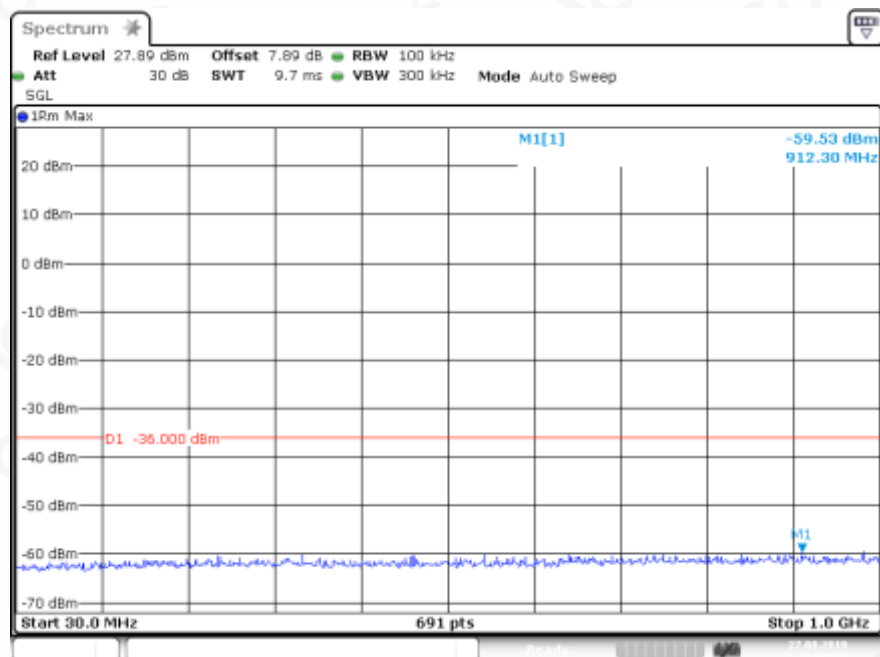
Date: 27.AUG.2019 15:07:47

150KHZ~30MHZ



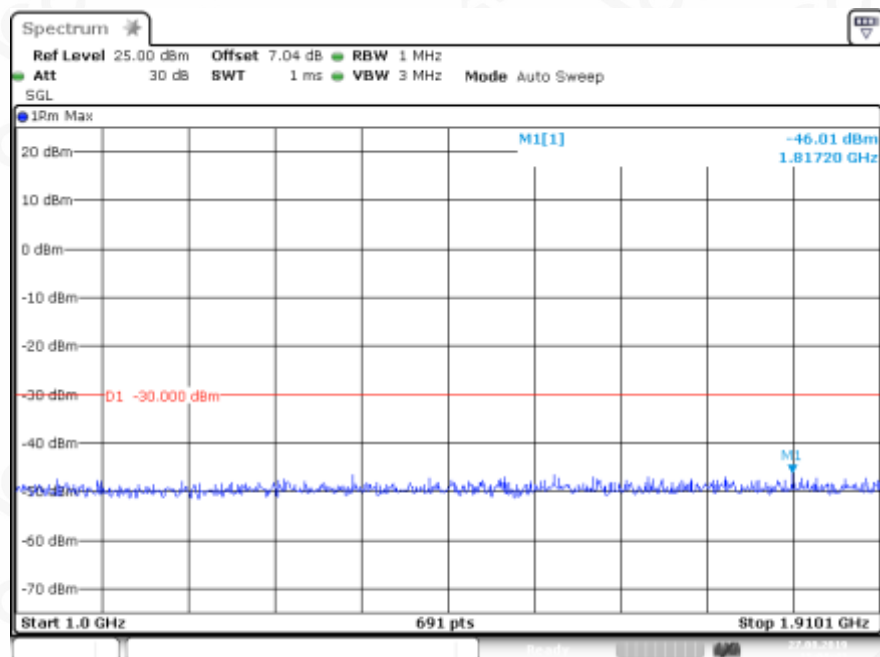
Date: 27.AUG.2019 15:08:05

30MHZ~1GHZ



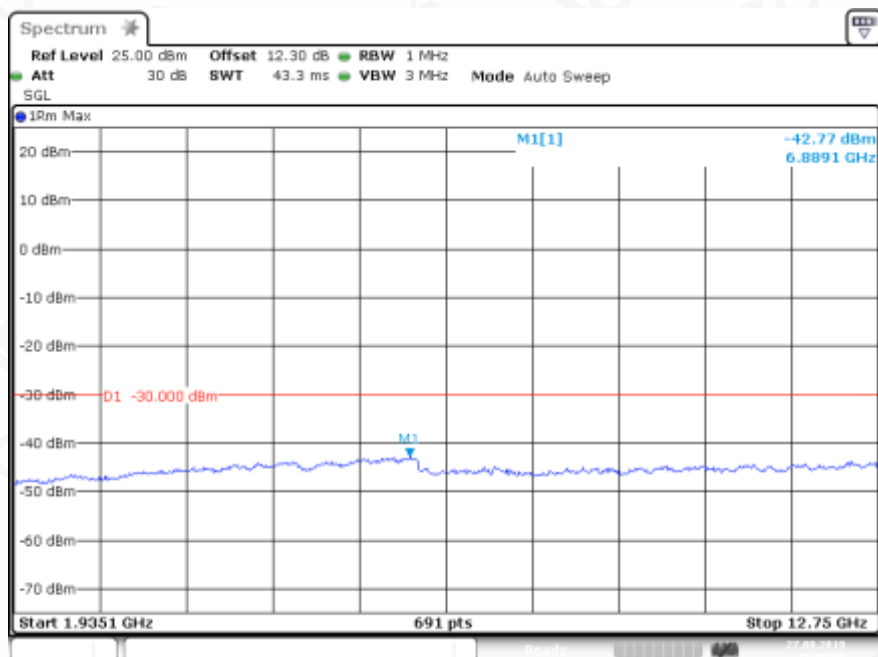
Date: 27.AUG.2019 15:08:23

1GHZ~1.9101GHZ



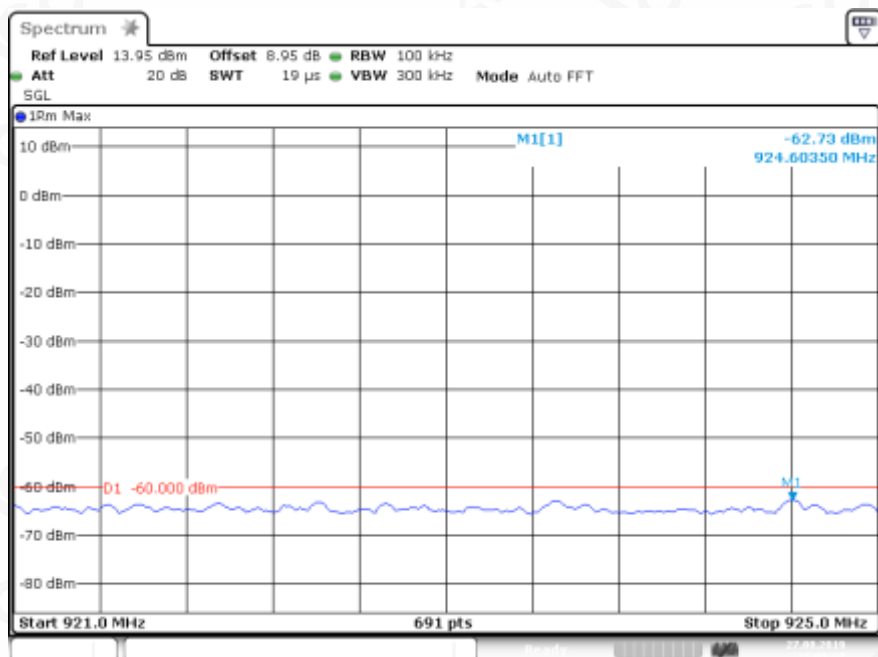
Date: 27.AUG.2019 15:08:41

1.9351GHZ~12.75GHZ



Date: 27.AUG.2019 15:08:59

921MHZ~925MHZ



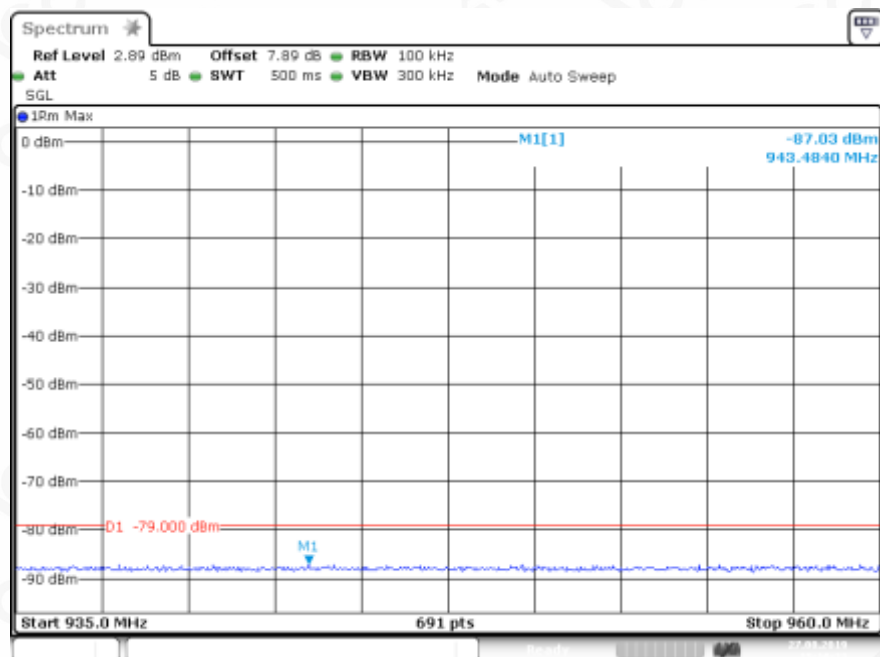
Date: 27.AUG.2019 15:09:46

925MHZ~935MHZ



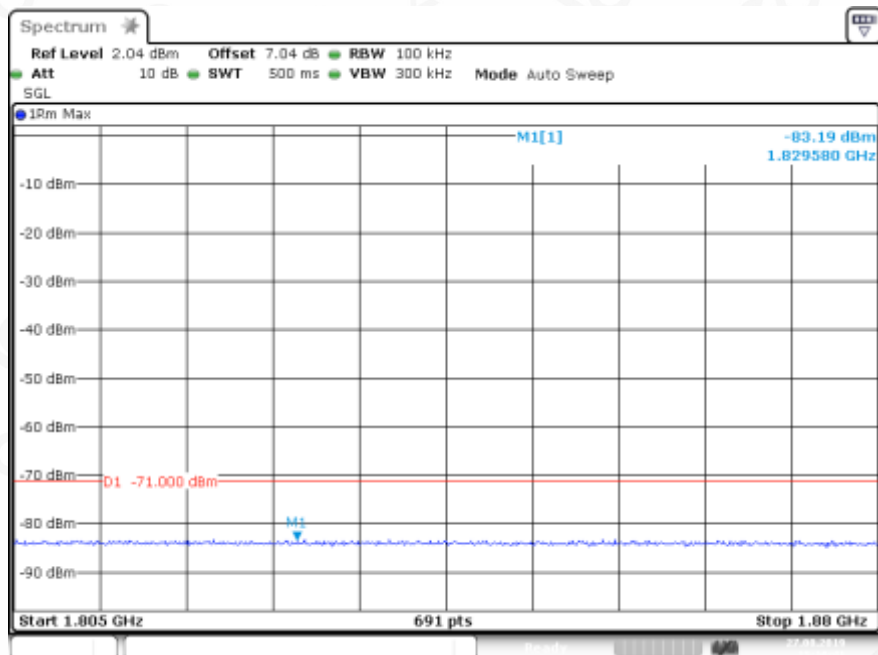
Date: 27.AUG.2019 15:10:04

935MHZ~960MHZ



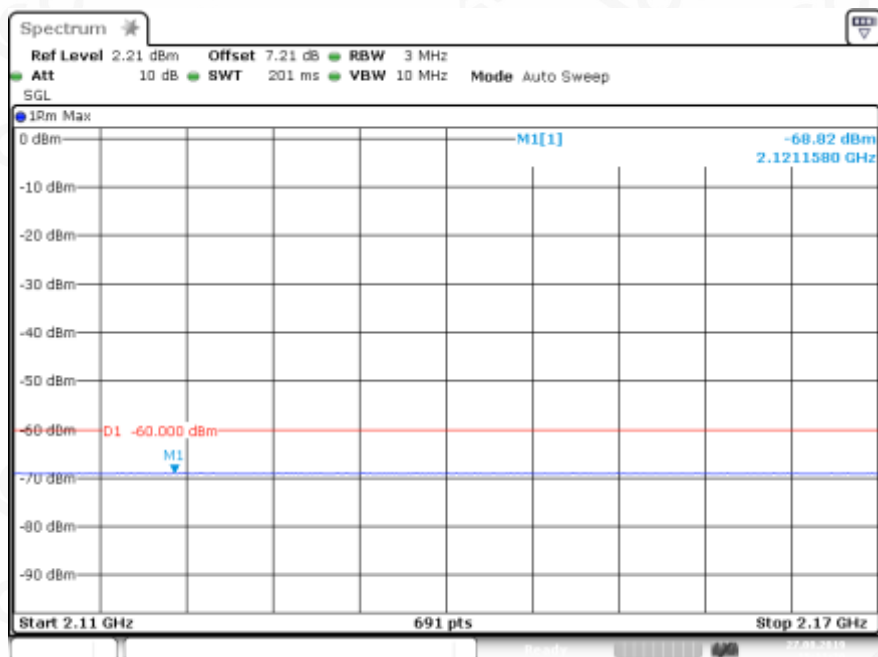
Date: 27.AUG.2019 15:10:23

1805MHZ~1880MHZ



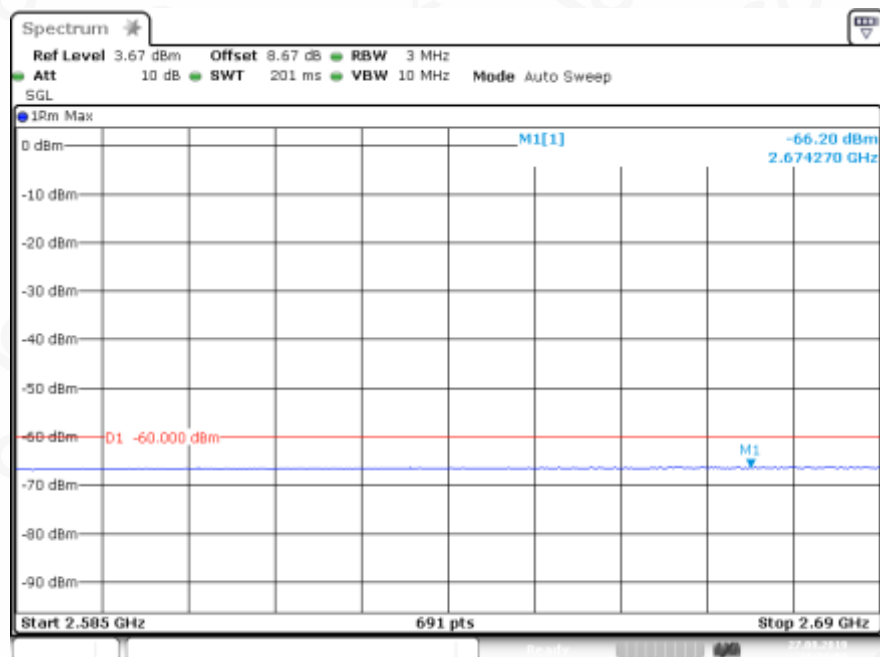
Date: 27.AUG.2019 15:10:41

2110MHZ~2170MHZ



Date: 27.AUG.2019 15:11:20

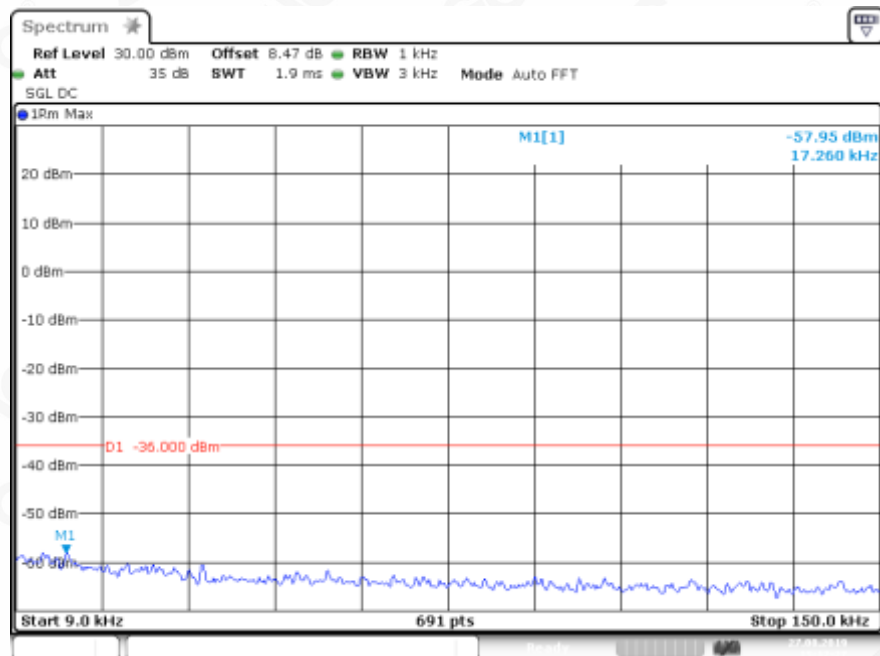
2585MHZ~2690MHZ



Date: 27.AUG.2019 15:12:00

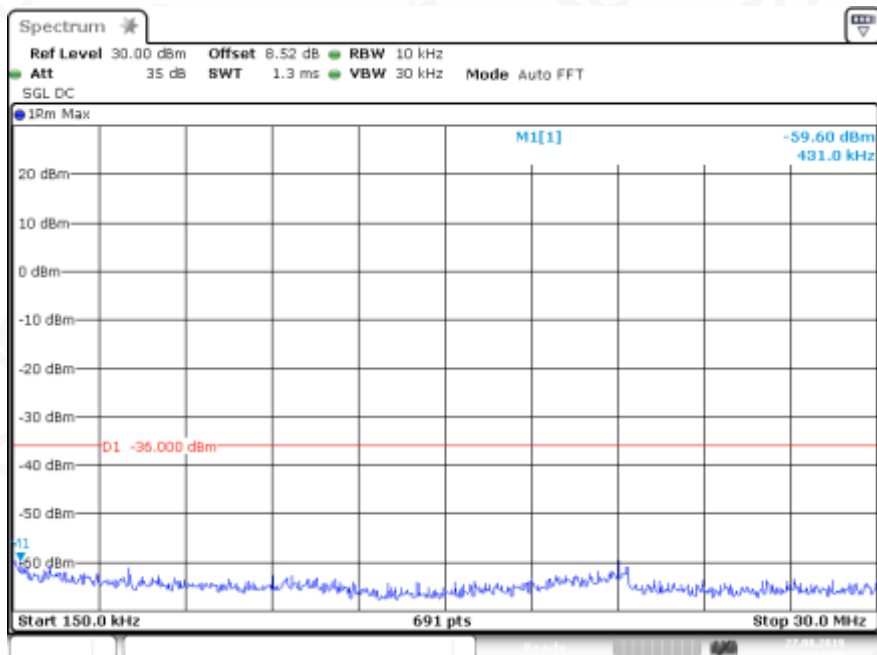
Channel MCH

9KHZ~150KHZ



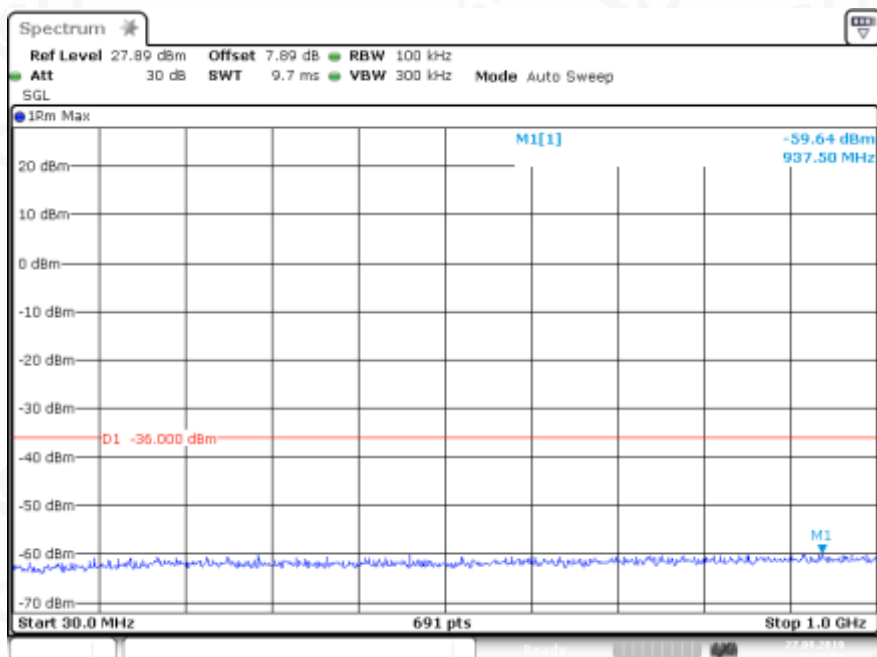
Date: 27.AUG.2019 15:12:27

150KHZ~30MHZ



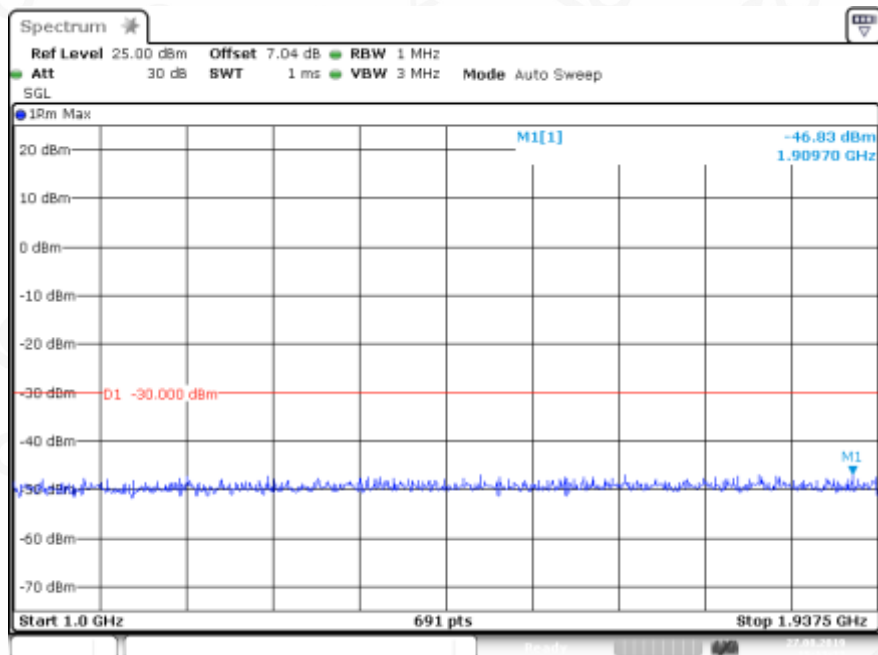
Date: 27.AUG.2019 15:12:45

30MHZ~1GHZ



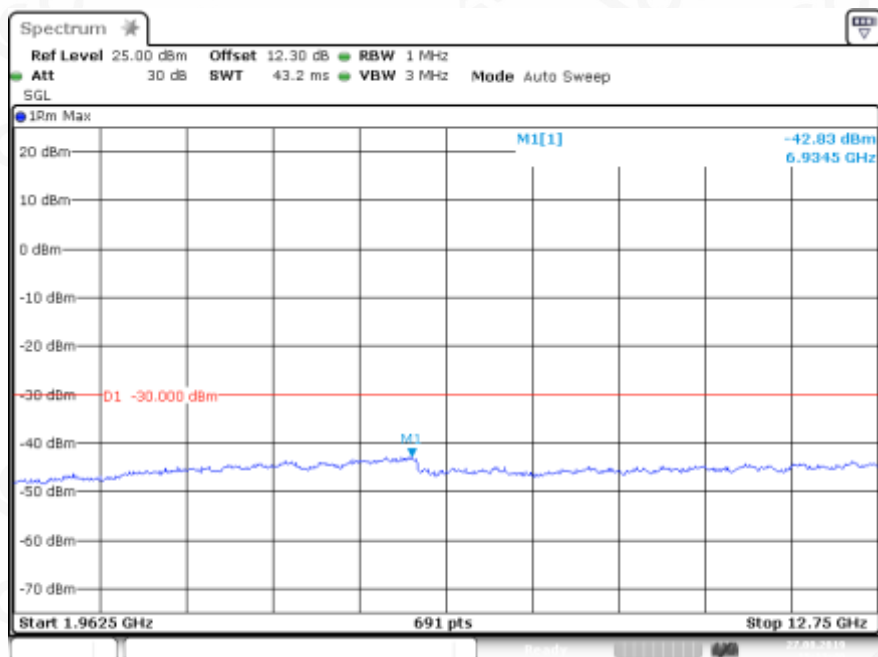
Date: 27.AUG.2019 15:13:03

1GHZ~1.9101GHZ



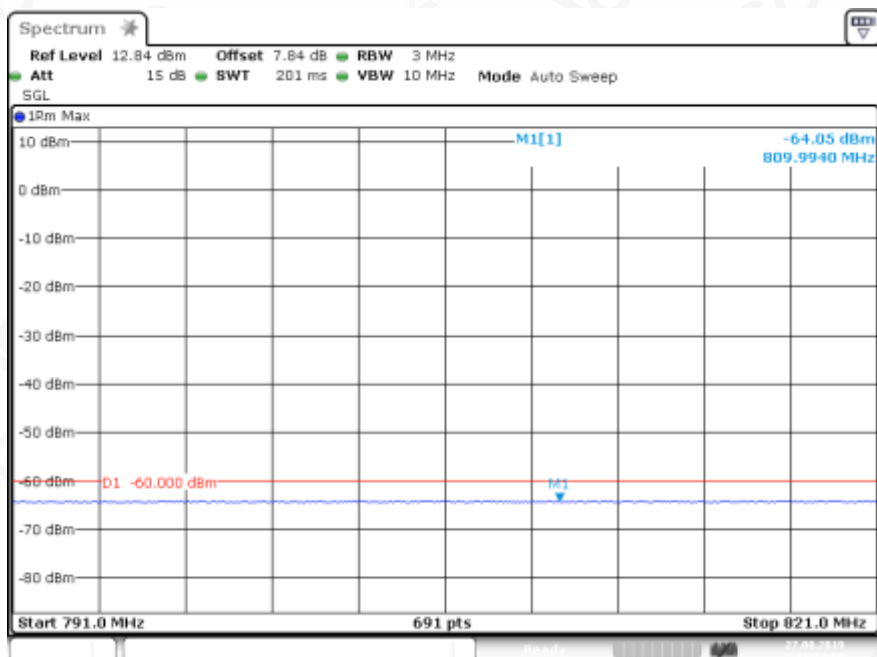
Date: 27.AUG.2019 15:13:21

1.9625GHZ~12.75GHZ



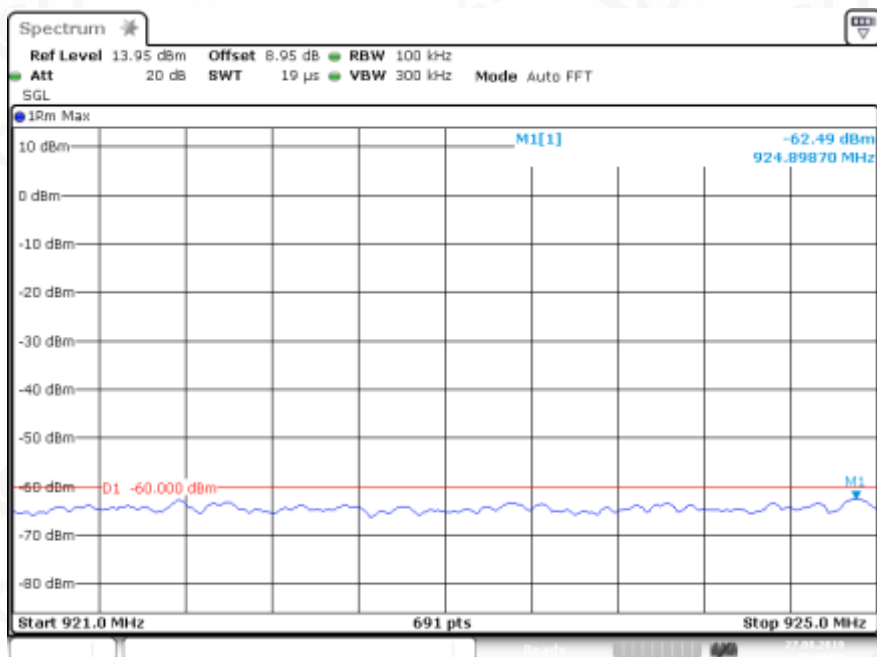
Date: 27.AUG.2019 15:13:39

791MHZ~821MHZ



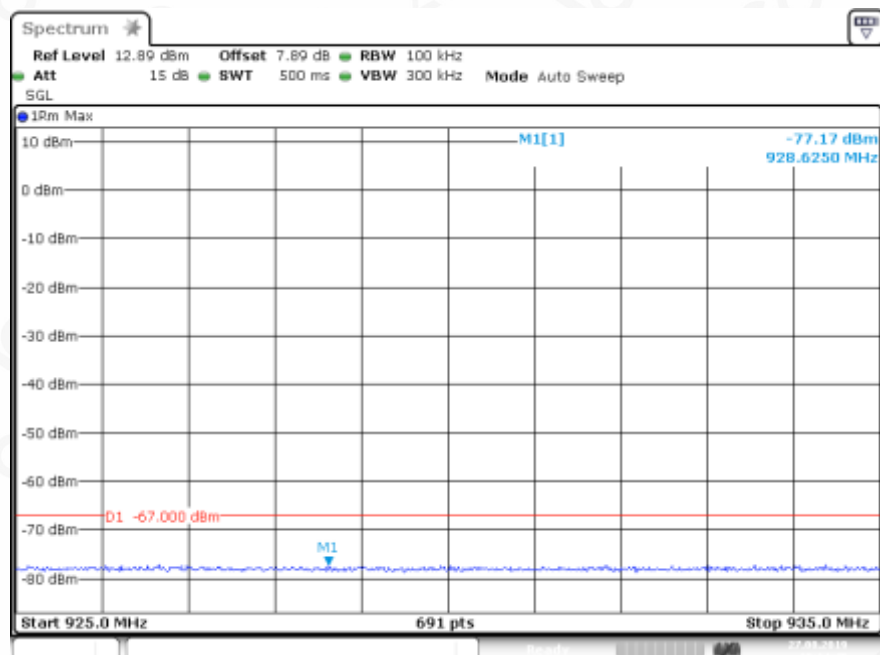
Date: 27.AUG.2019 15:14:08

921MHZ~925MHZ



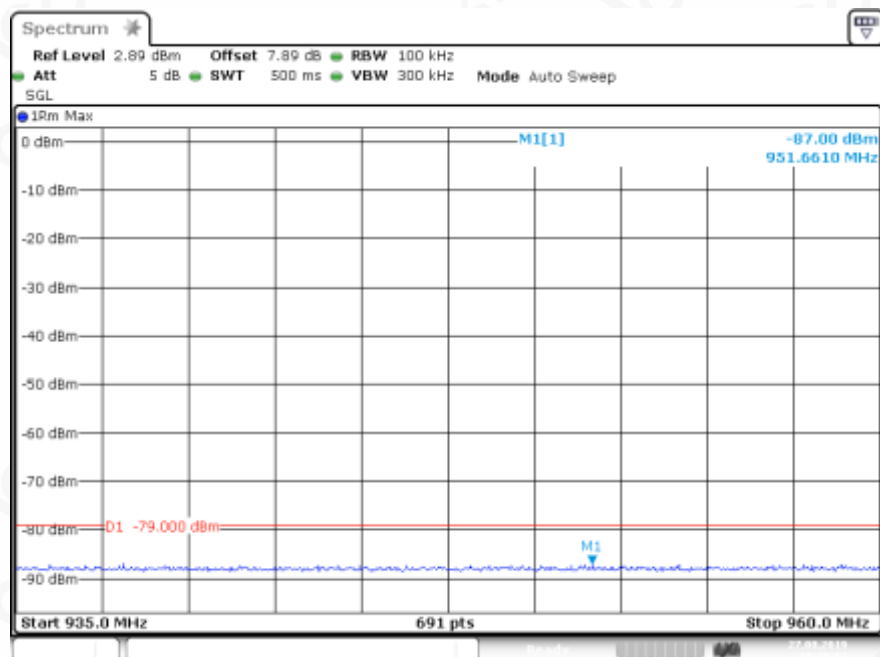
Date: 27.AUG.2019 15:14:26

925MHZ~935MHZ



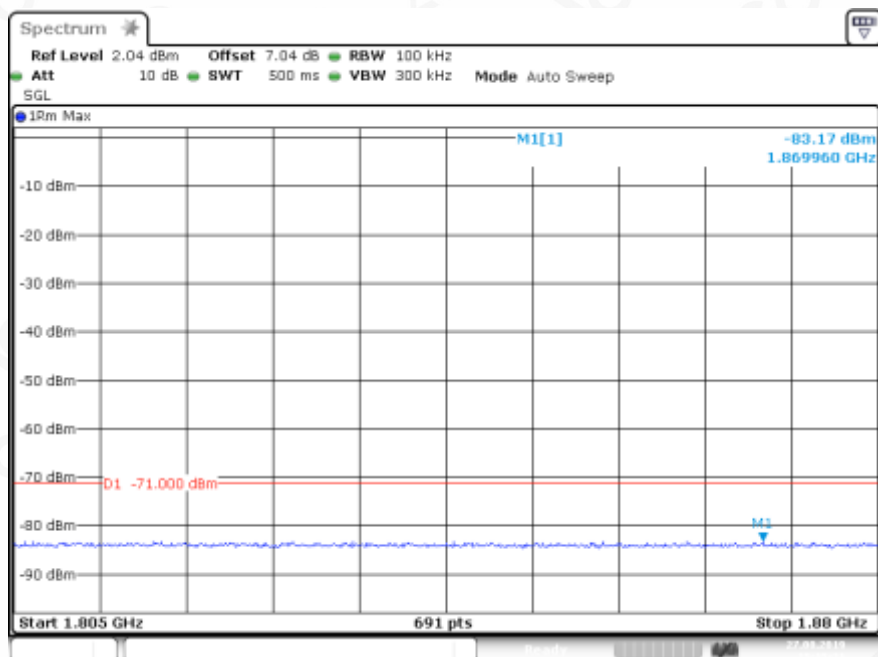
Date: 27.AUG.2019 15:14:44

935MHZ~960MHZ



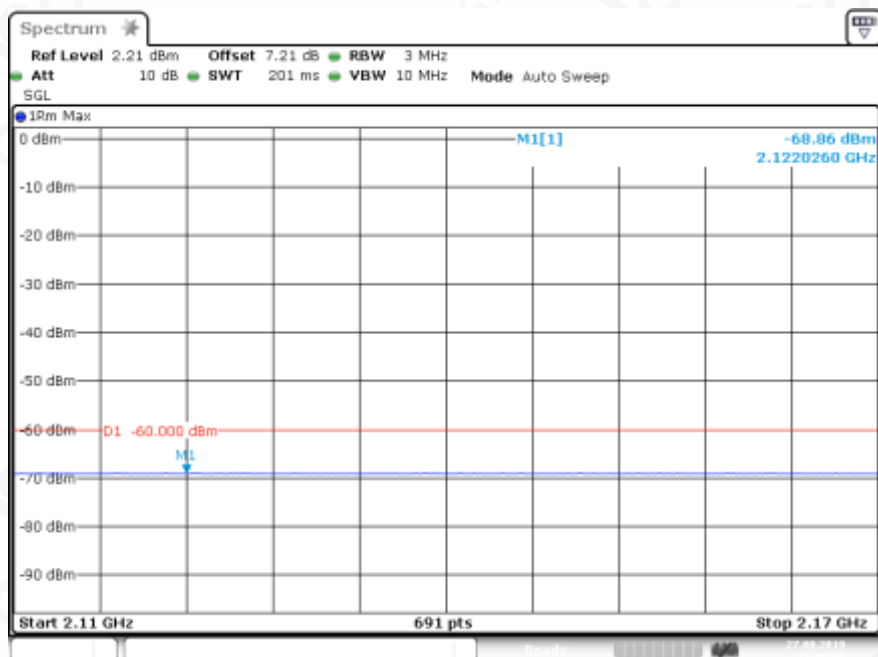
Date: 27.AUG.2019 15:15:03

1805MHZ~1880MHZ



Date: 27.AUG.2019 15:15:21

2110MHZ~2170MHZ



Date: 27.AUG.2019 15:16:01



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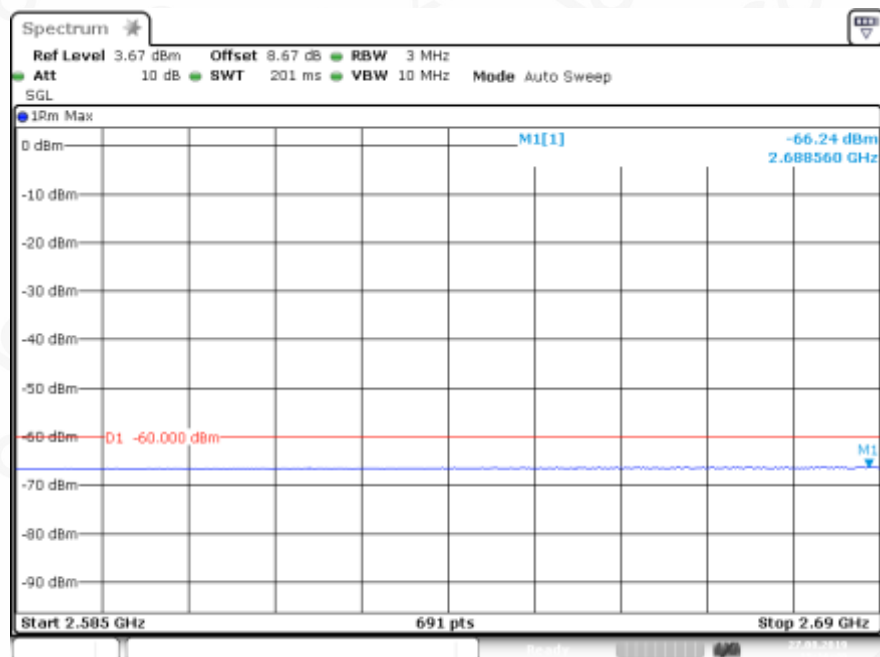
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

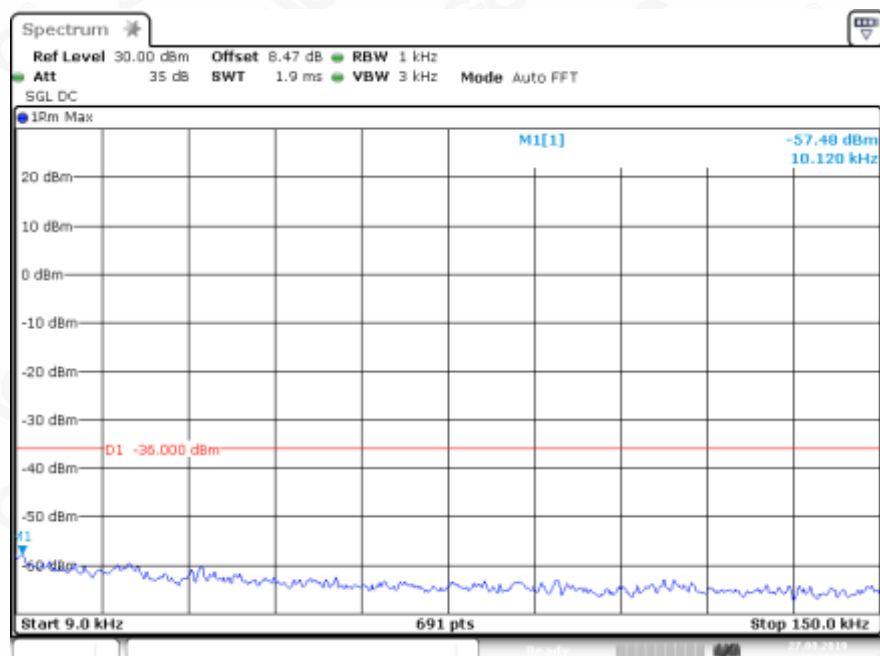
2585MHZ~2690MHZ



Date: 27.AUG.2019 15:16:40

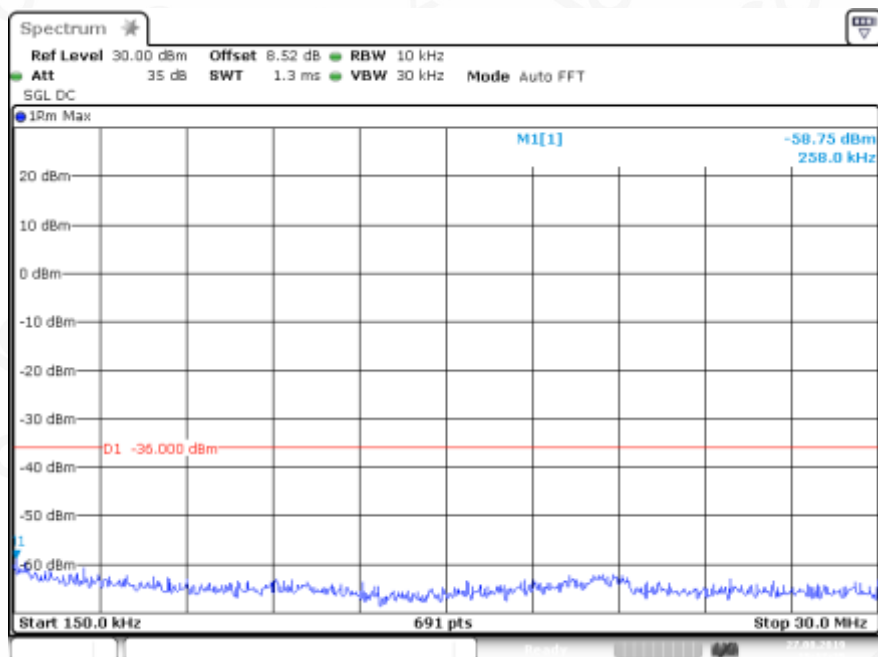
Channel HCH

9KHZ~150KHZ



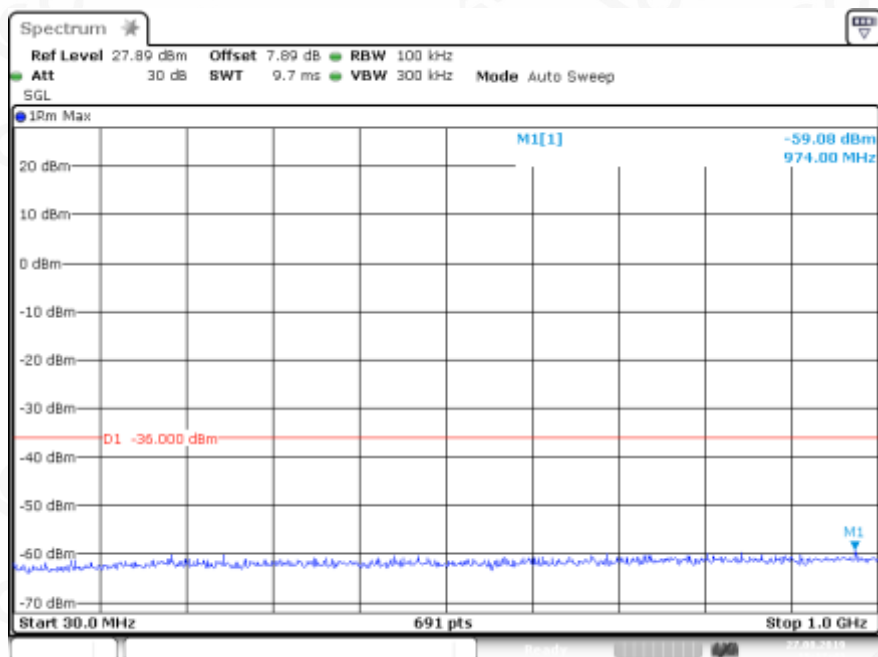
Date: 27.AUG.2019 15:17:07

150KHZ~30MHZ



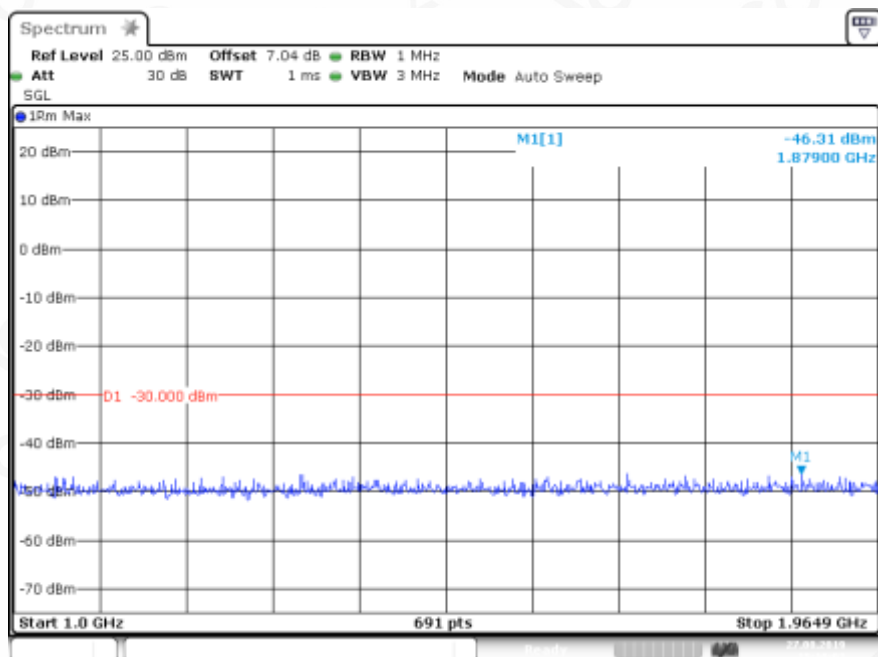
Date: 27.AUG.2019 15:17:25

30MHZ~1GHZ



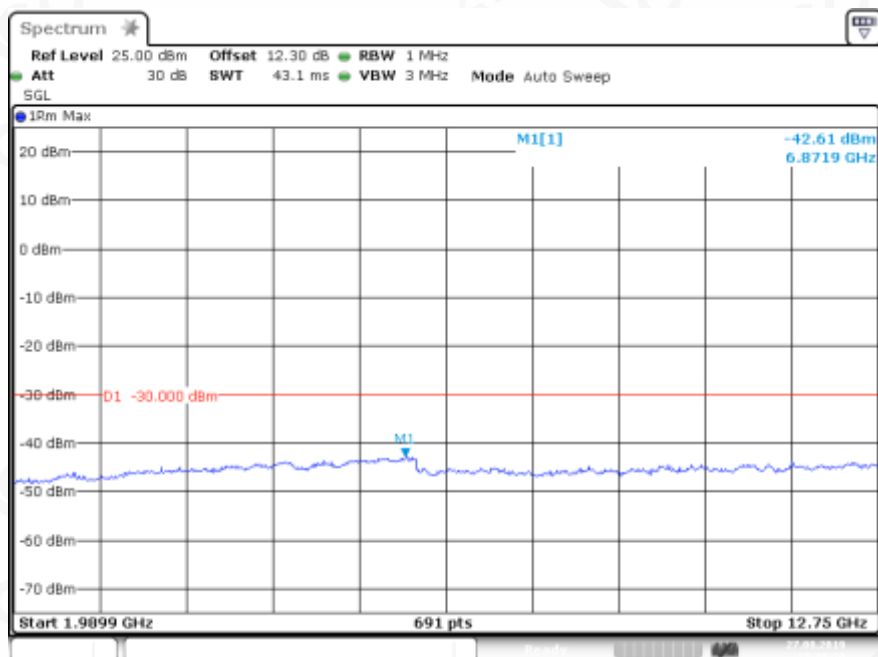
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1GHZ~1.9101GHZ



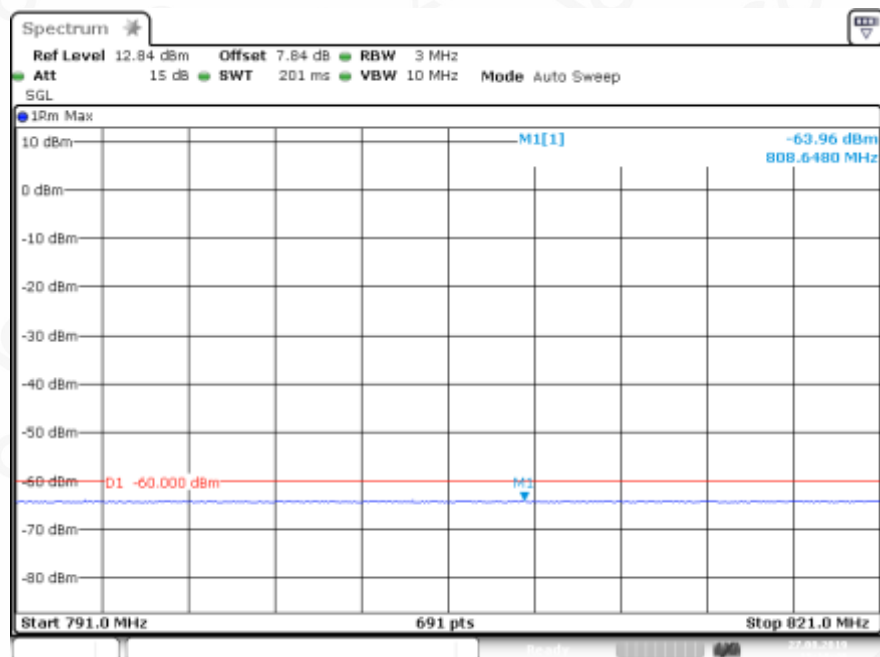
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1.9899GHZ~12.75GHZ



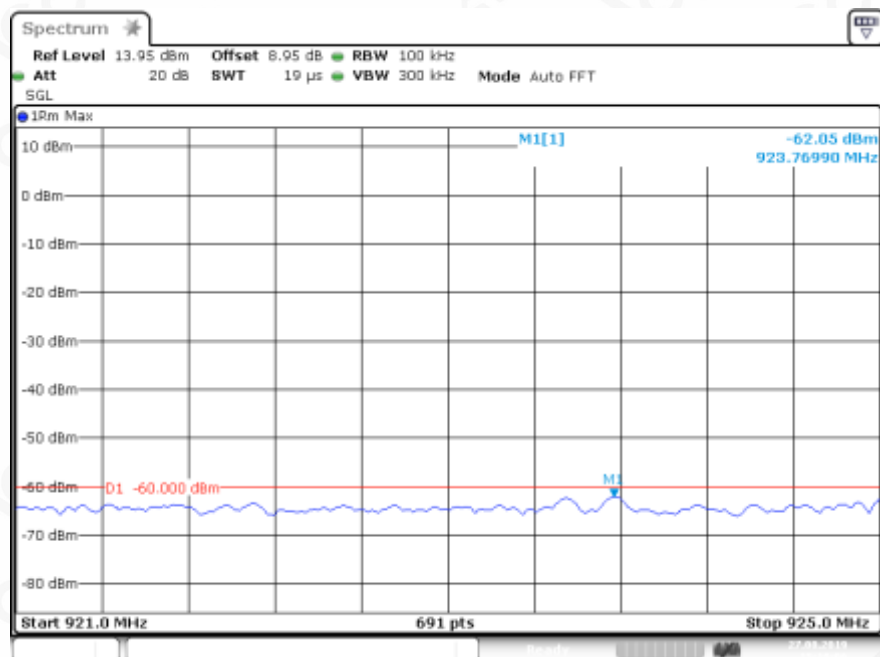
Date: 27.AUG.2019 15:18:19

791MHZ~821MHZ



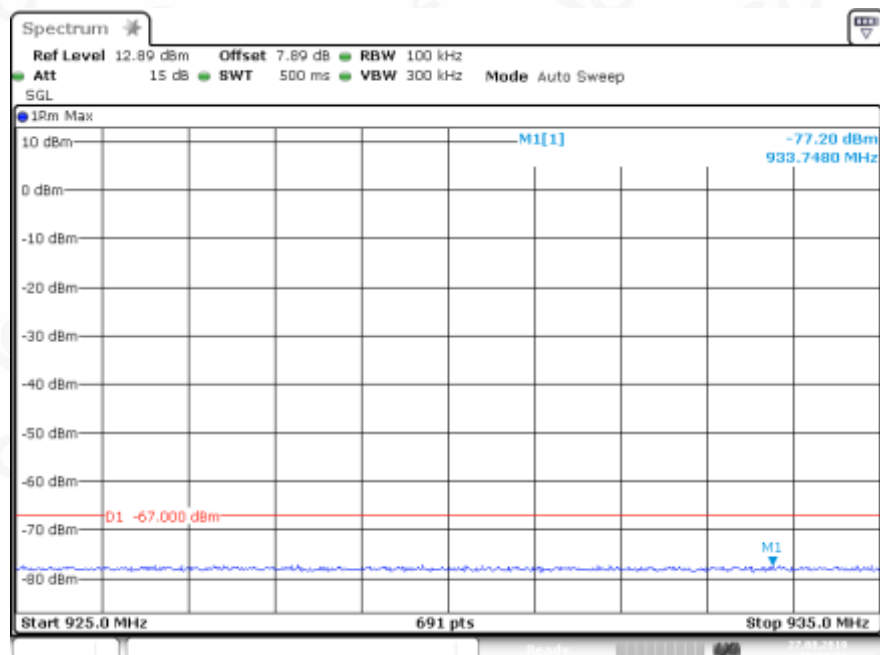
Date: 27.AUG.2019 15:18:48

921MHZ~925MHZ



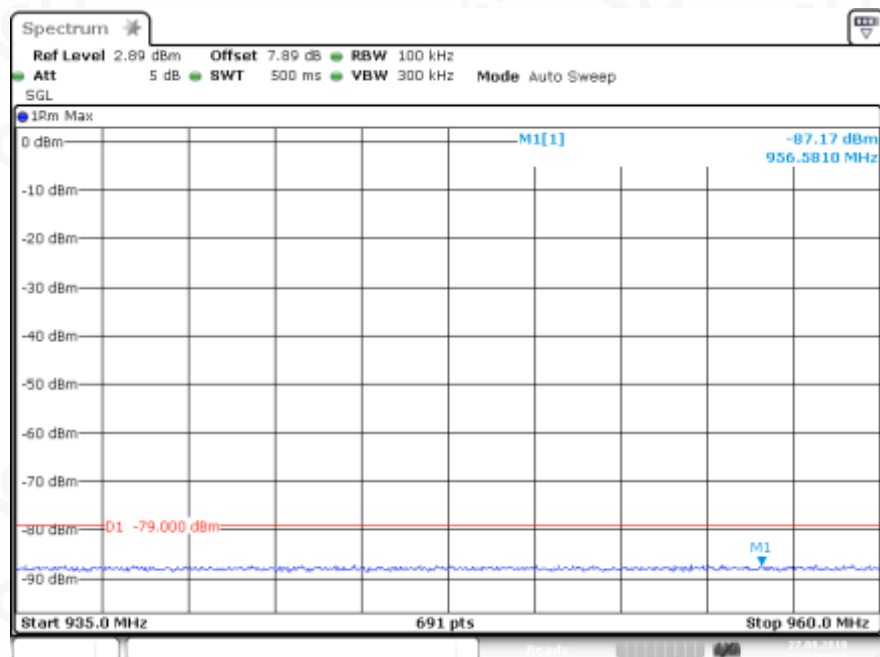
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925MHZ~935MHZ



Date: 27.AUG.2019 15:19:24

935MHZ~960MHZ



Date: 27.AUG.2019 15:19:42



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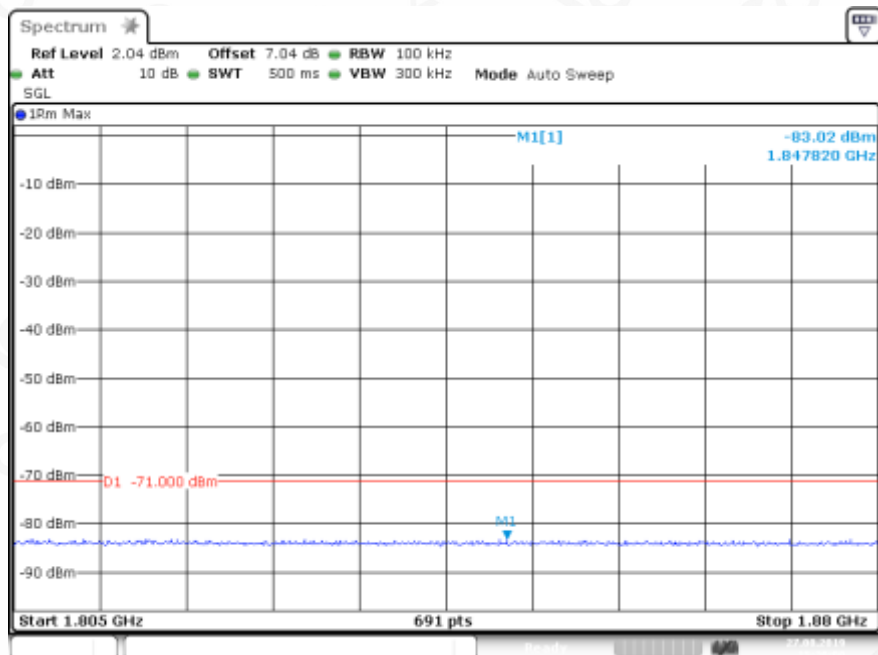
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

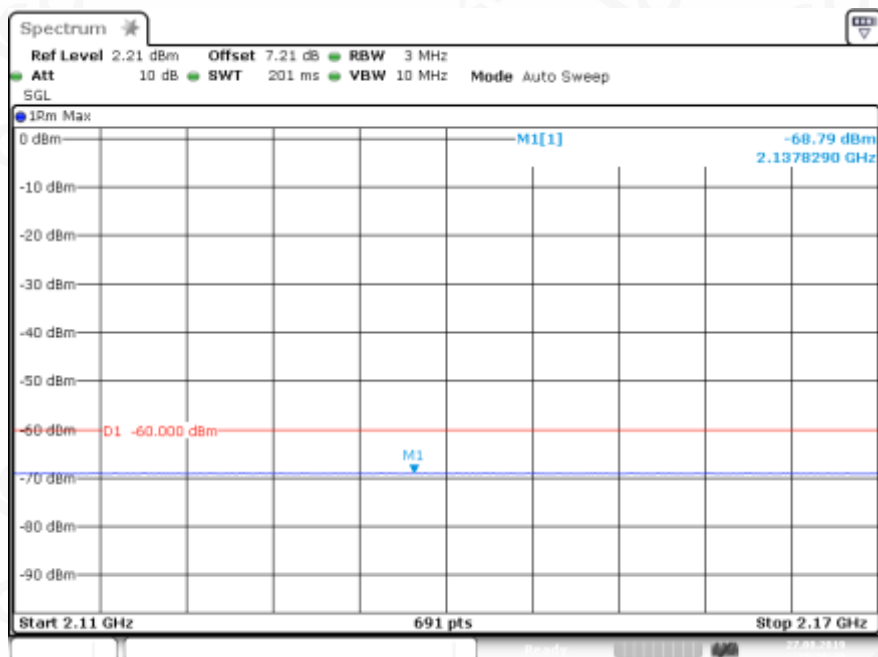
Service Hotline: 400 089 2118

1805MHZ~1880MHZ



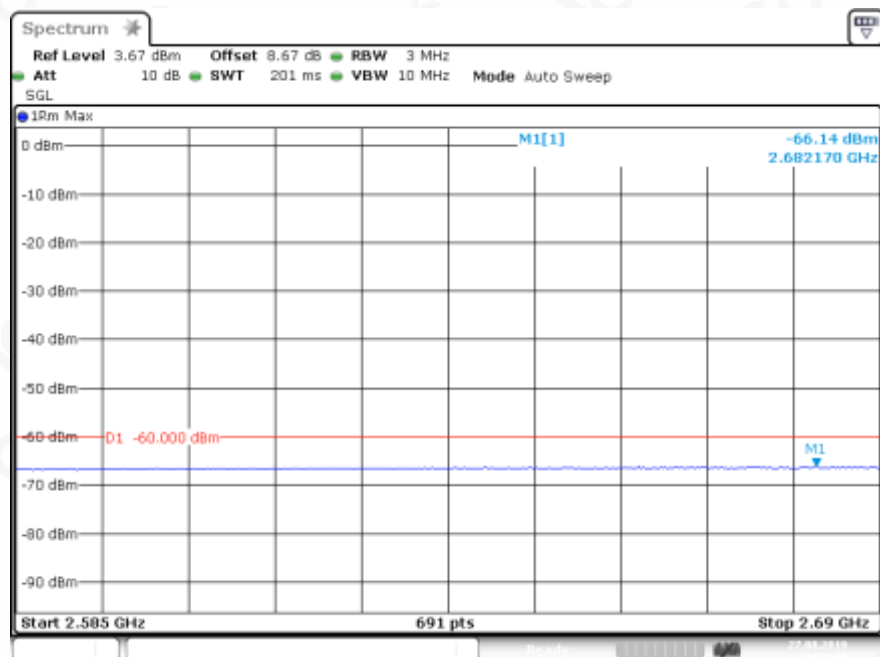
Date: 27.AUG.2019 15:20:00

2110MHZ~2170MHZ



Date: 27.AUG.2019 15:20:40

2585MHZ~2690MHZ

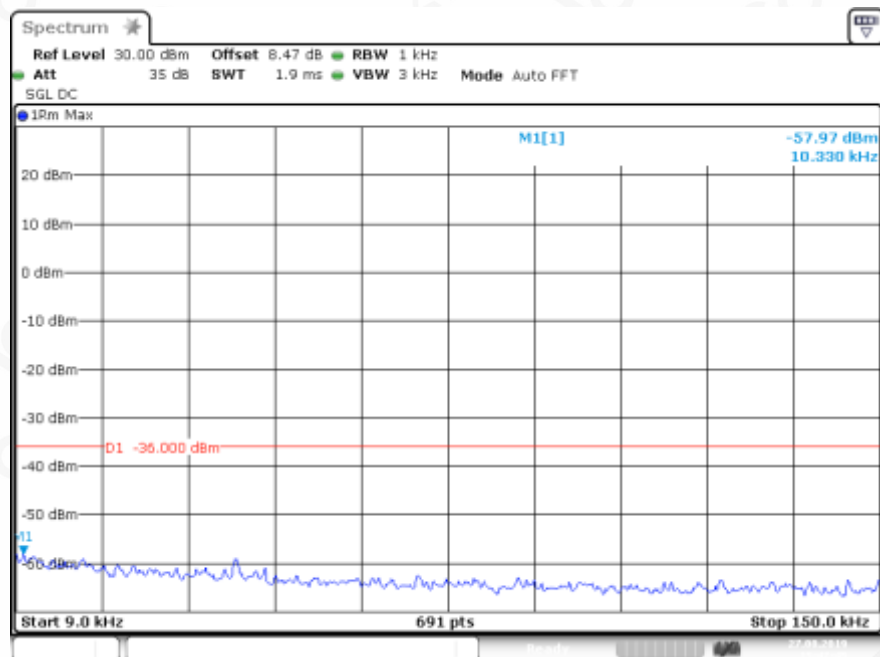


Date: 27.AUG.2019 15:21:20

BAND VIII

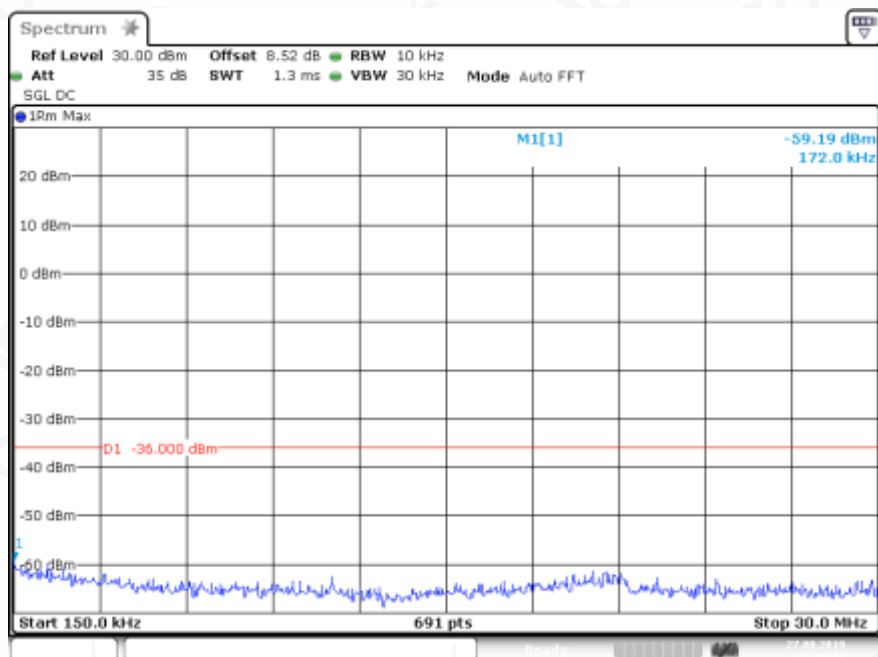
Channel LCH

9KHZ~150KHZ



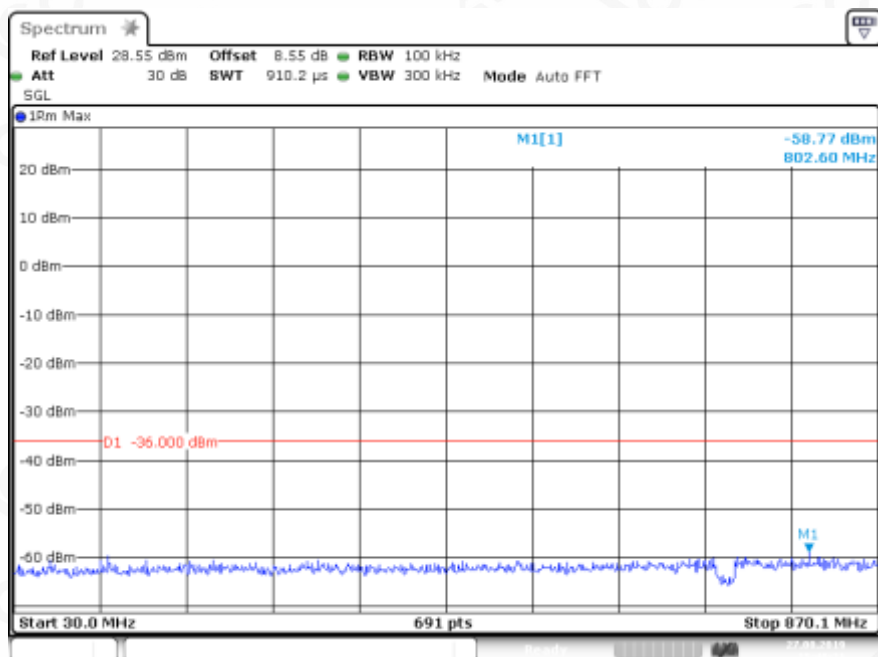
Date: 27.AUG.2019 15:47:45

150KHZ~30MHZ

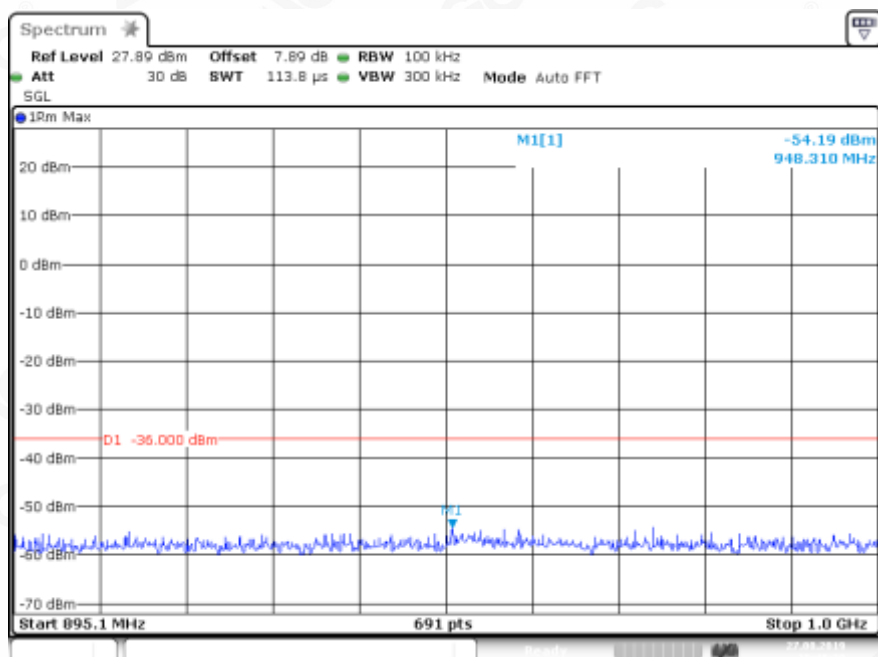


Date: 27.AUG.2019 15:48:03

30MHZ~1GHZ

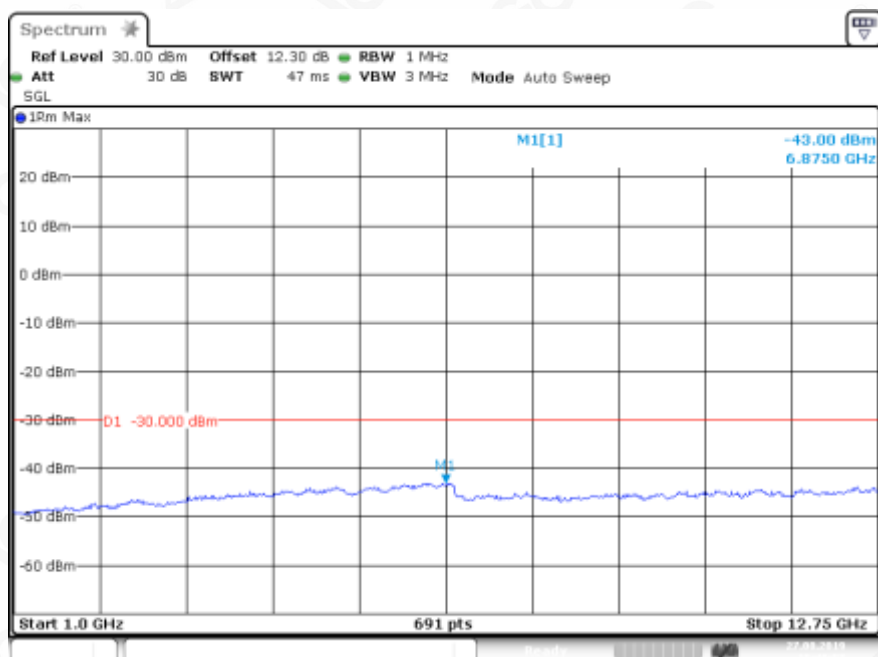


Date: 27.AUG.2019 15:48:21



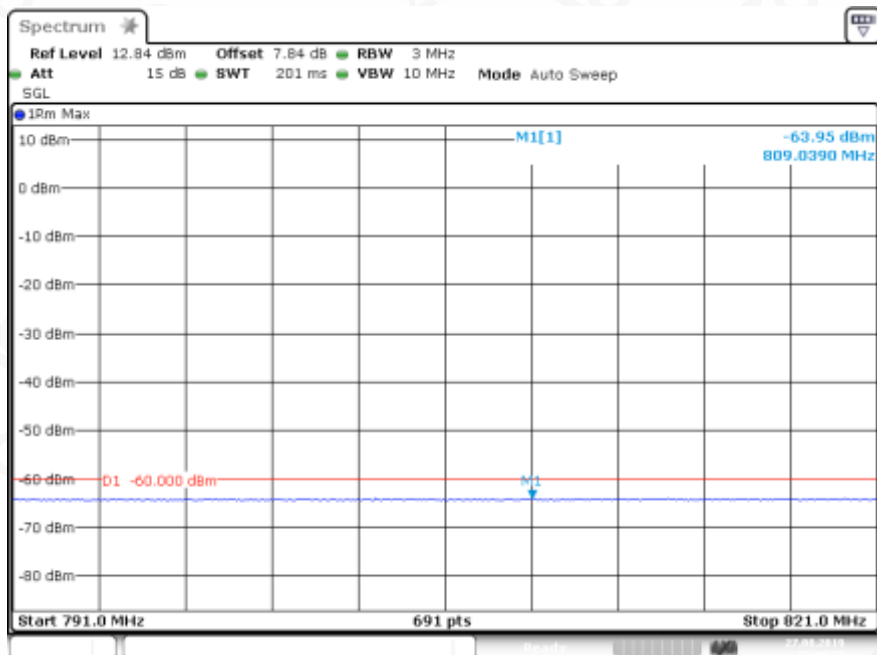
Date: 27.AUG.2019 15:48:39

1GHZ~12.75GHZ



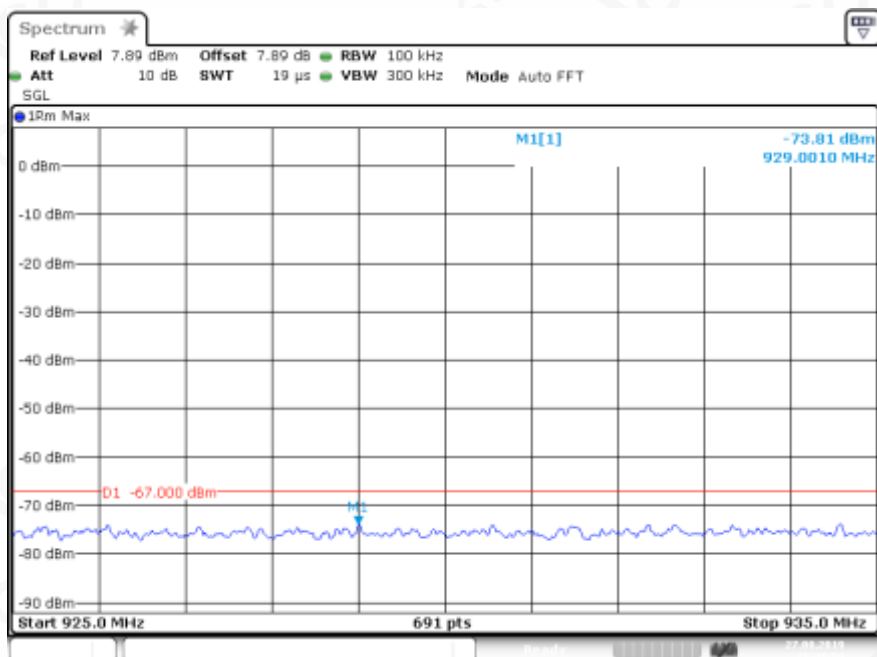
Date: 27.AUG.2019 15:48:57

791MHZ~821MHZ



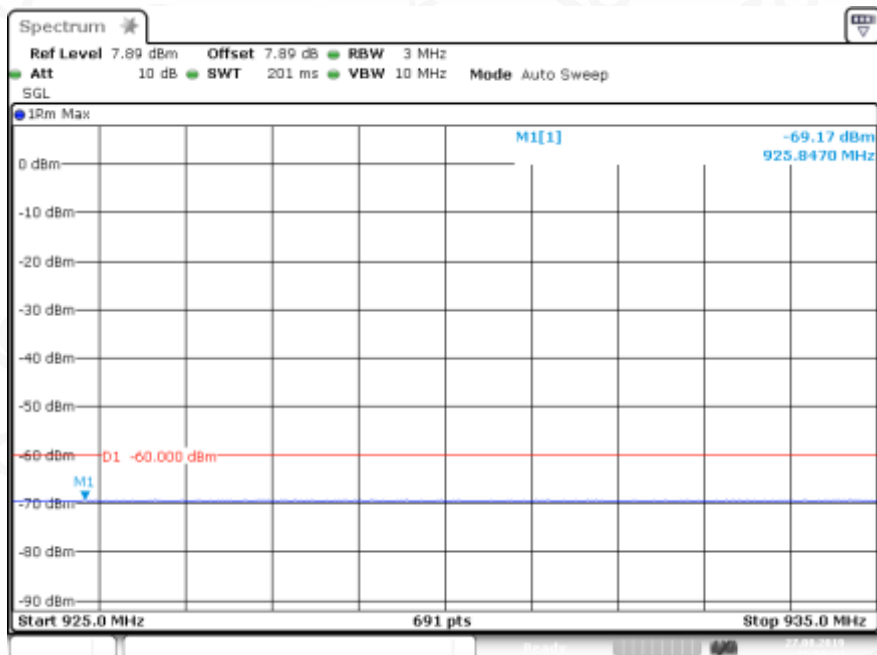
Date: 27.AUG.2019 15:49:26

925MHZ~935MHZ



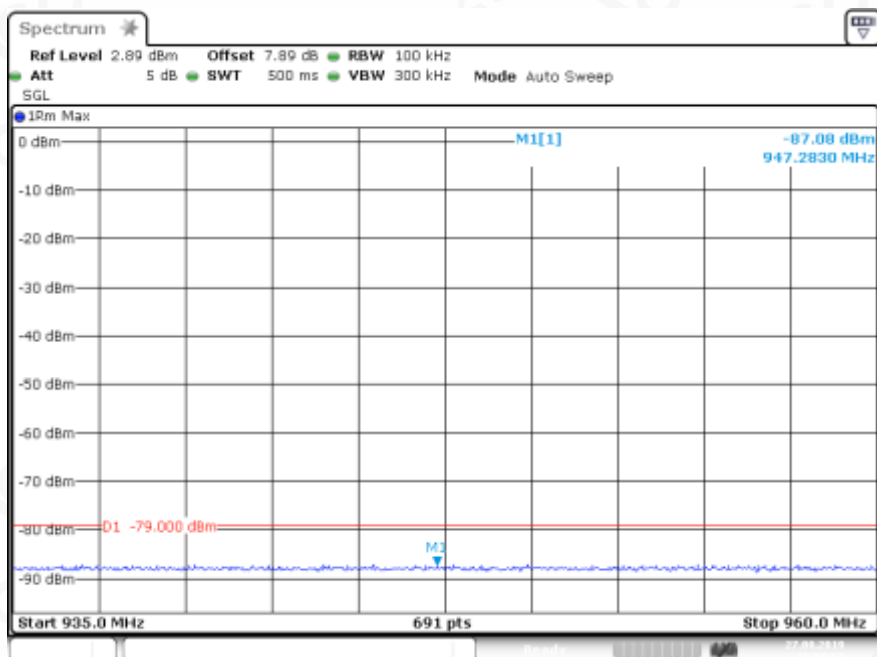
Date: 27.AUG.2019 15:49:54

925MHZ~935MHZ



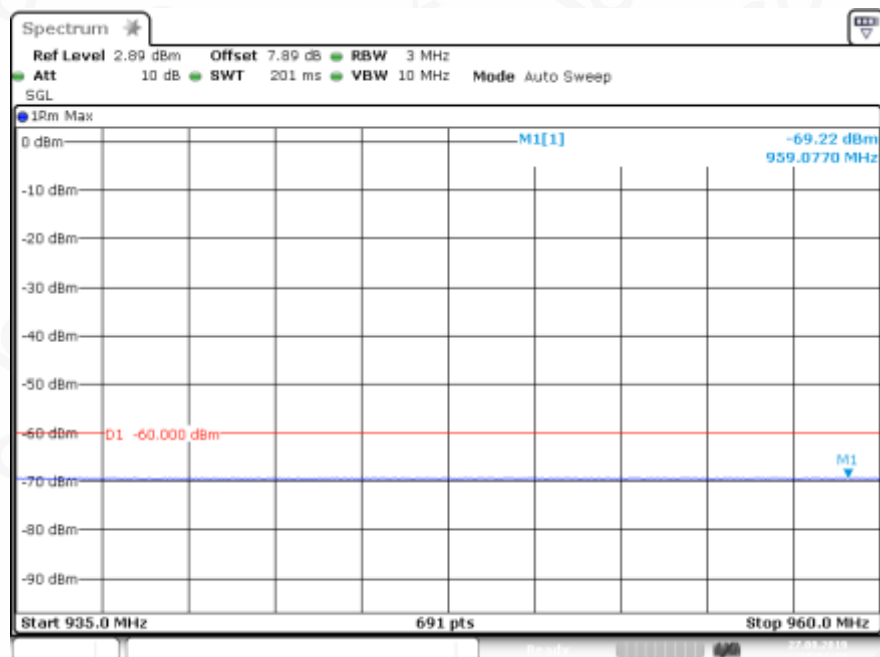
Date: 27.AUG.2019 15:50:34

935MHZ~960MHZ



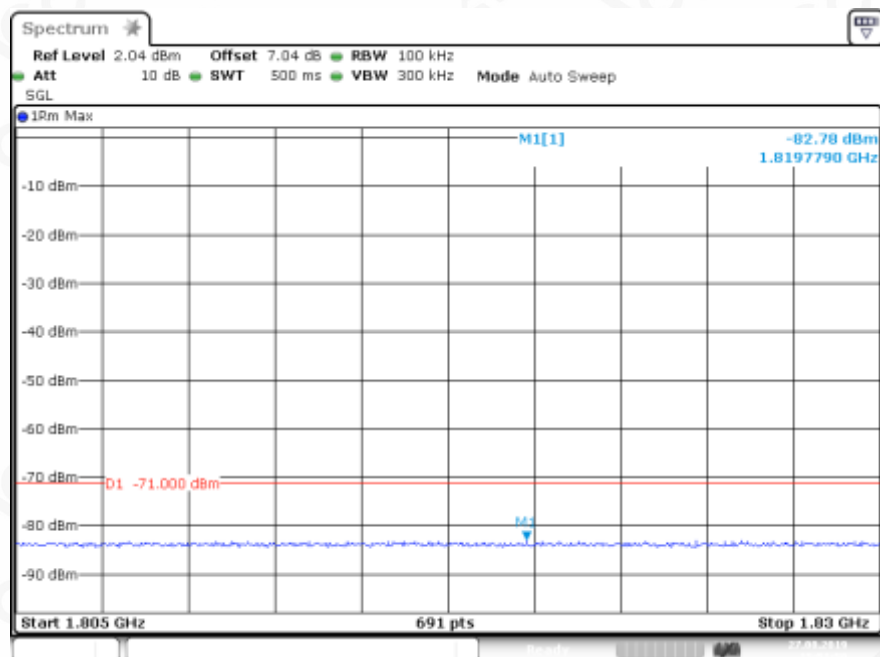
Date: 27.AUG.2019 15:50:52

935MHZ~960MHZ



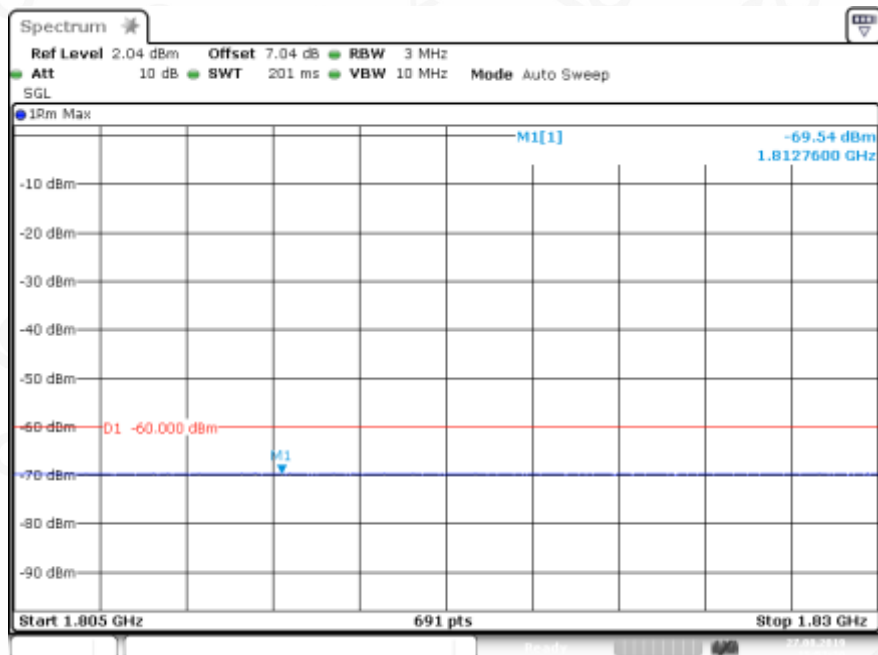
Date: 27.AUG.2019 15:51:32

1805MHZ~1830MHZ



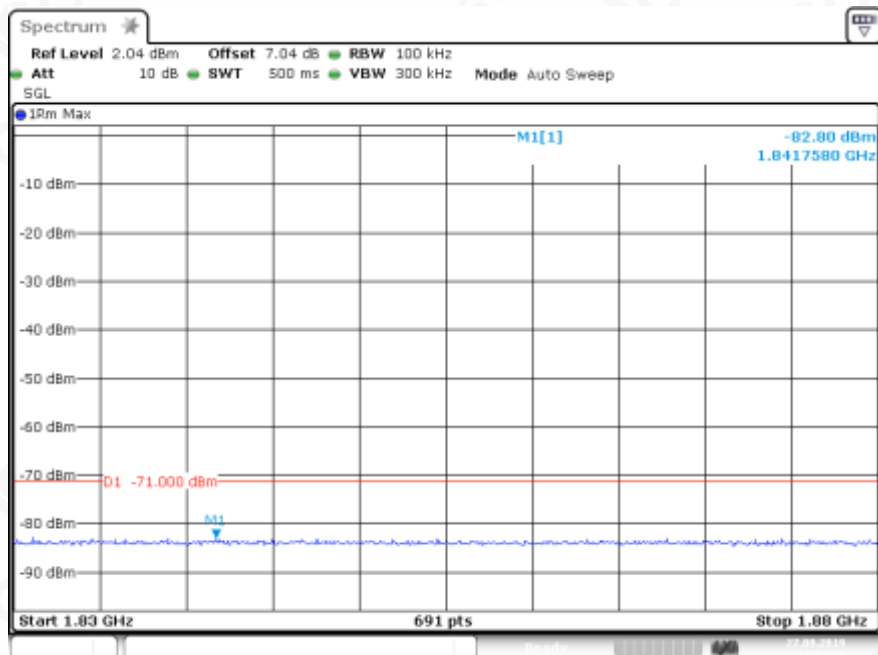
Date: 27.AUG.2019 15:51:50

1805MHZ~1830MHZ



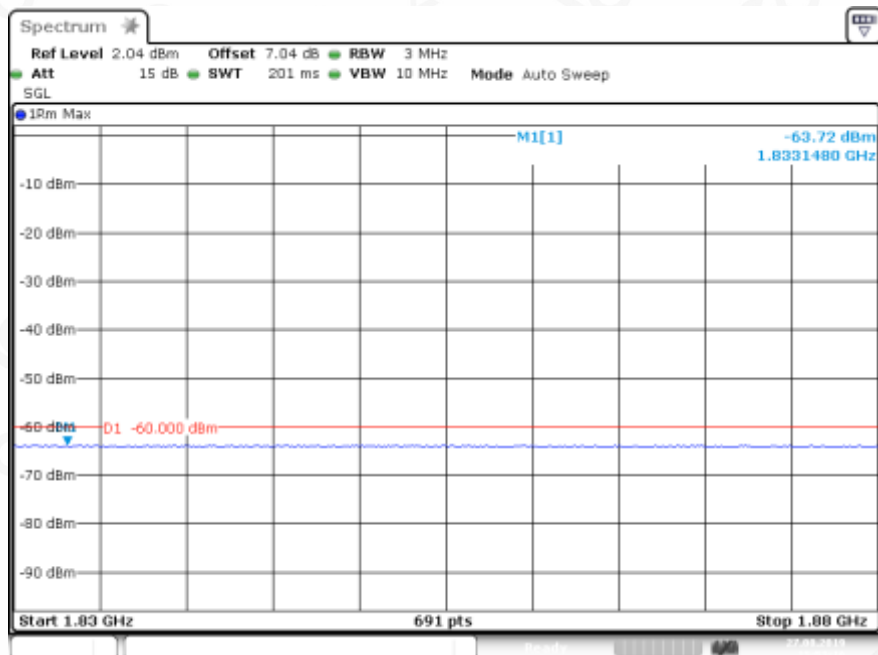
Date: 27.AUG.2019 15:52:29

1830MHZ~1880MHZ



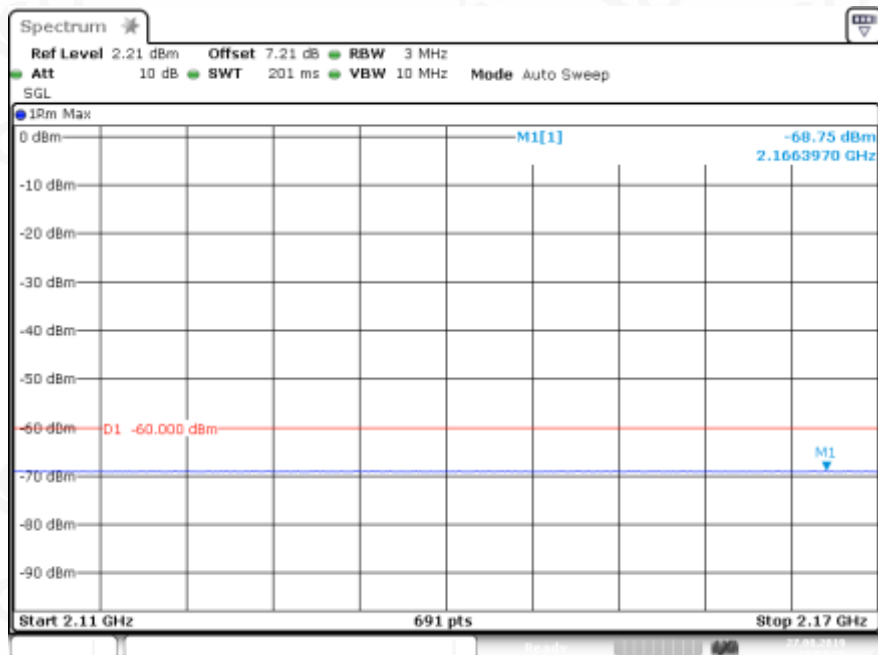
Date: 27.AUG.2019 15:52:47

1830MHZ~1880MHZ



Date: 27.AUG.2019 15:53:16

2110MHZ~2170MHZ



Date: 27.AUG.2019 15:53:56



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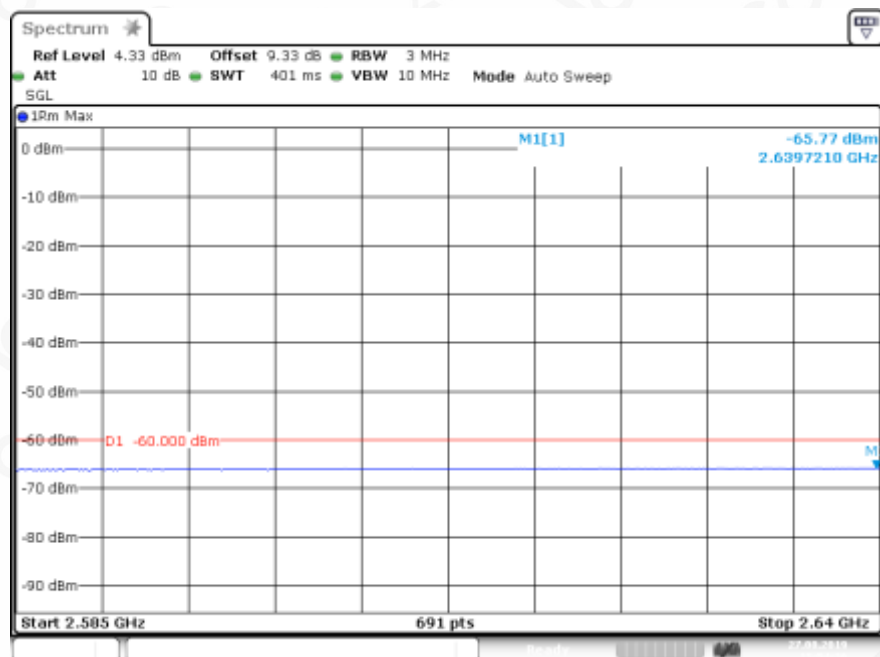
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

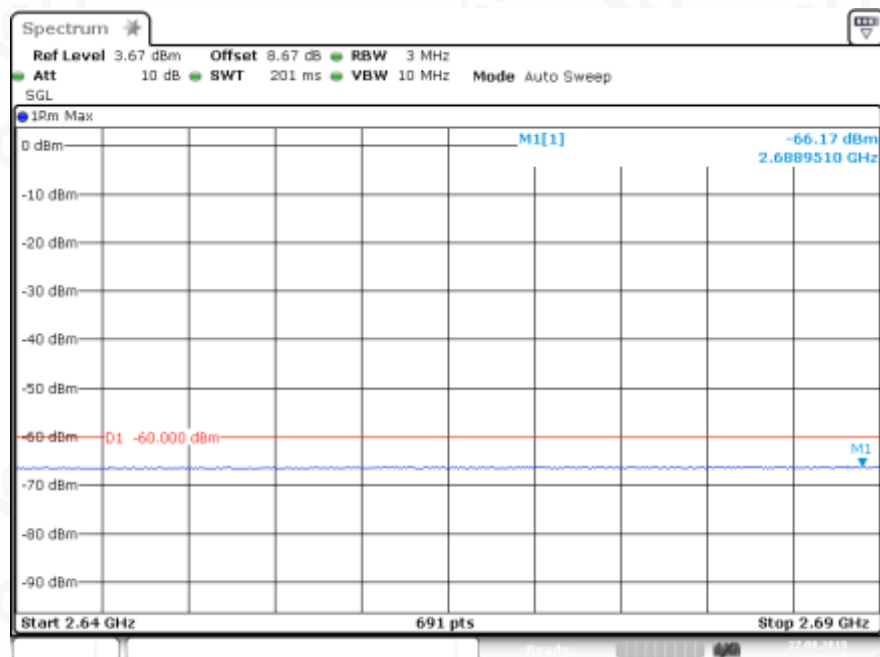
Service Hotline: 400 089 2118

2585MHZ~2640MHZ



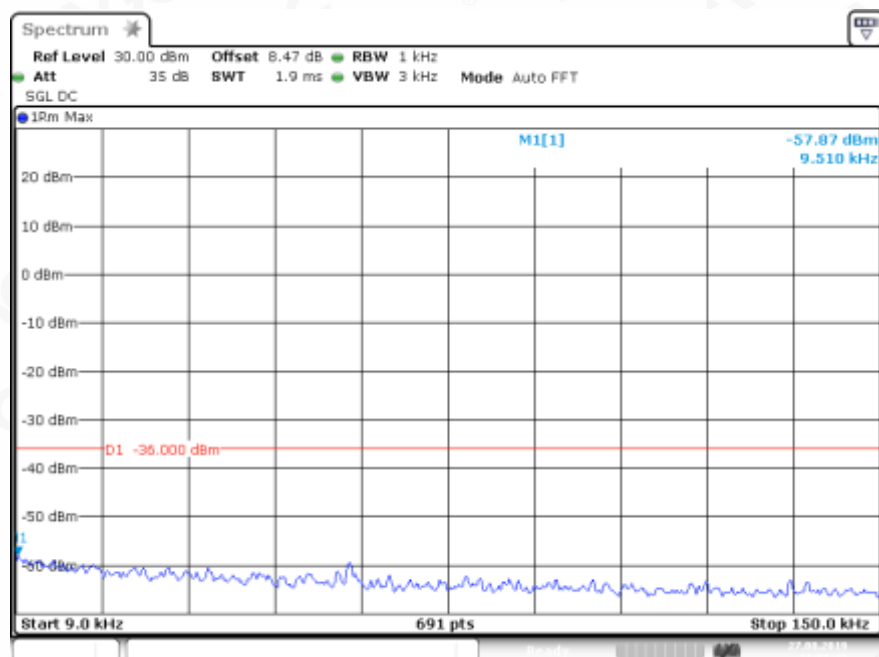
Date: 27.AUG.2019 15:54:36

2640MHZ~2690MHZ



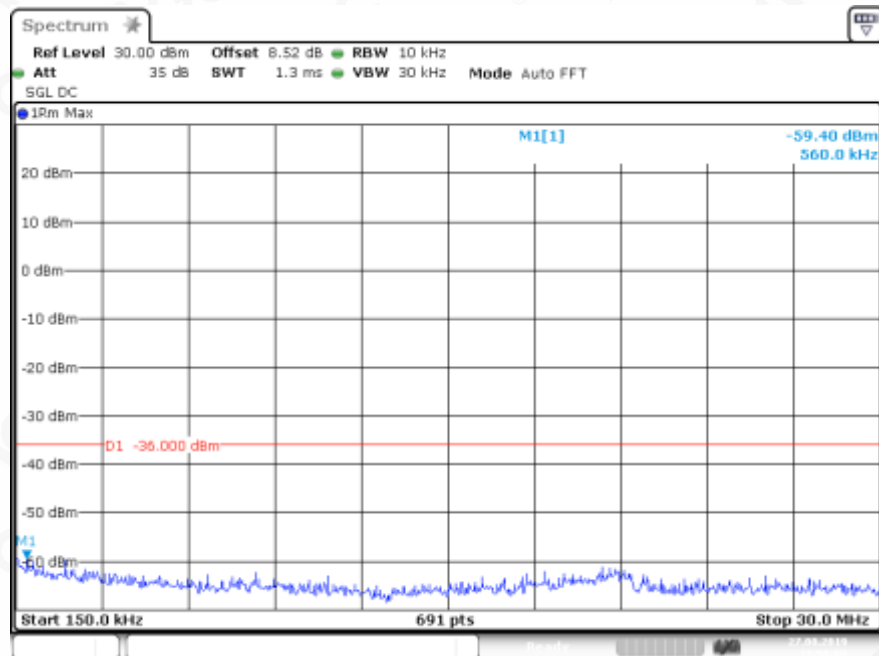
Date: 27.AUG.2019 15:55:15

Channel MCH 9KHZ~150KHZ



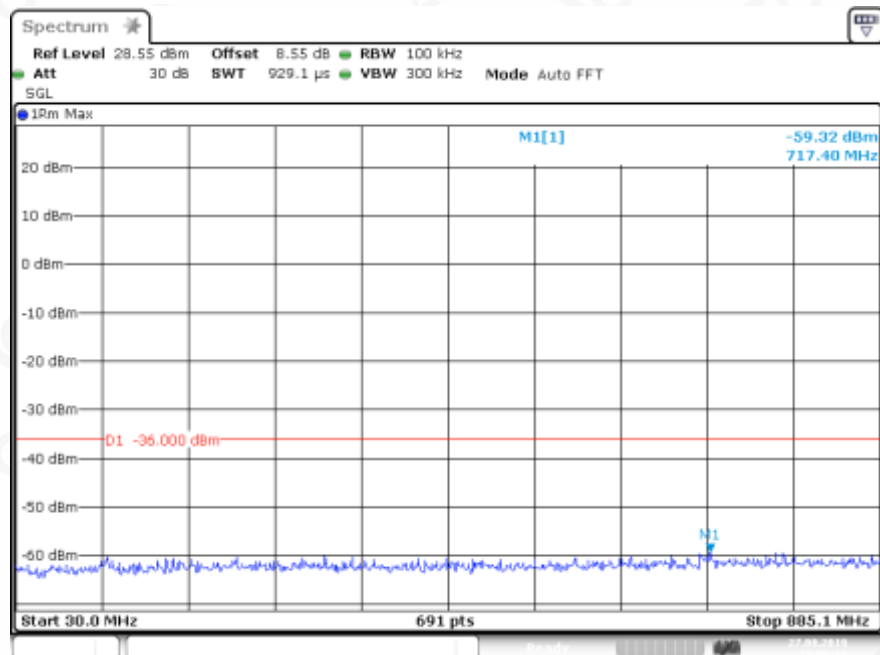
Date: 27.AUG.2019 15:55:42

150KHZ~30MHZ

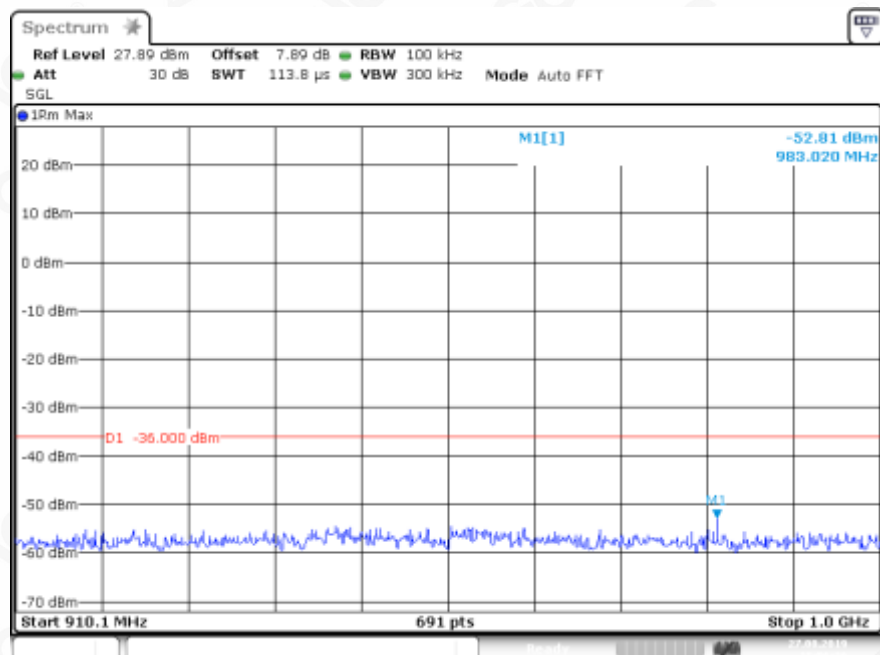


Date: 27.AUG.2019 15:56:00

30MHZ~1GHZ

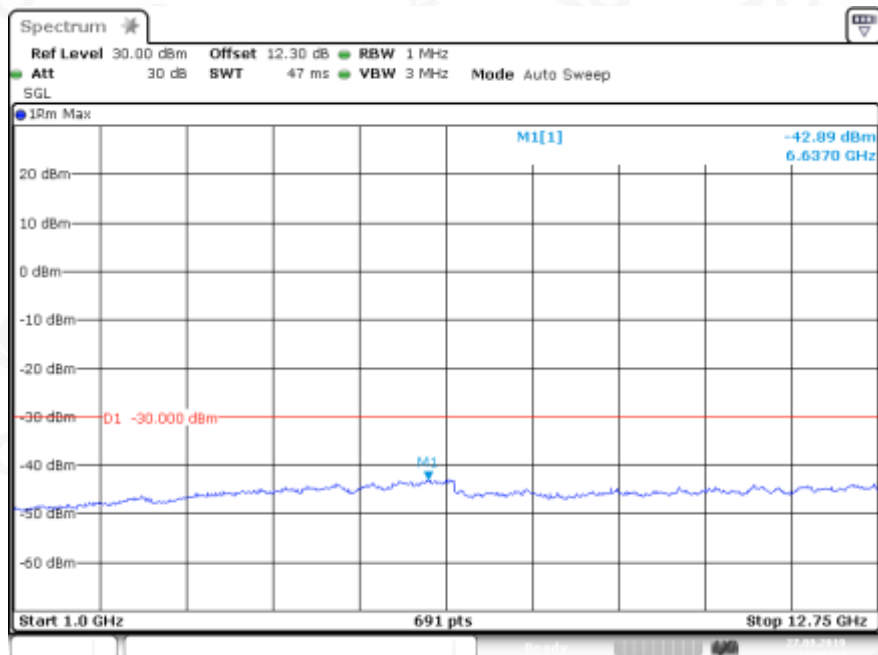


Date: 27.AUG.2019 15:56:18



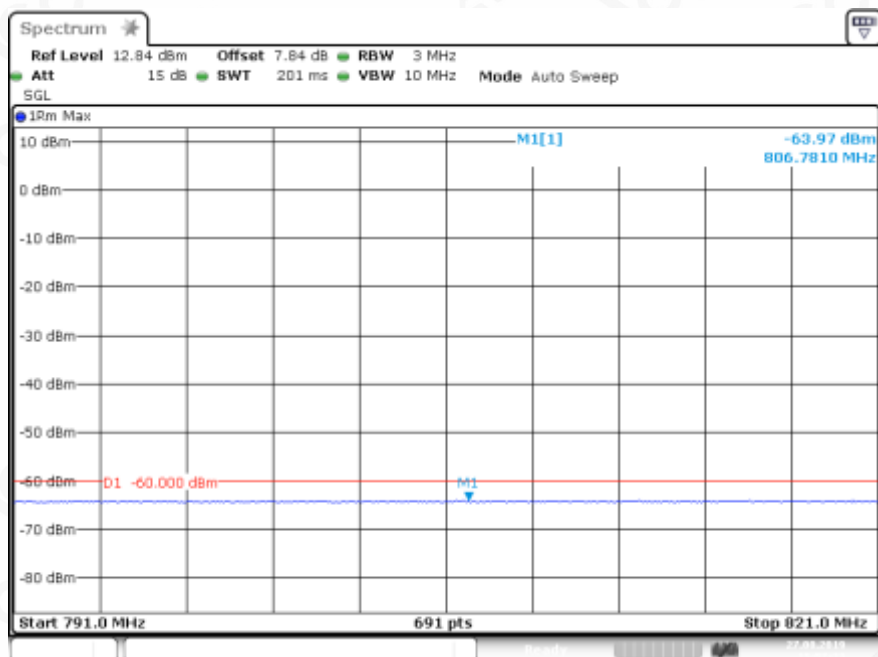
Date: 27.AUG.2019 15:56:36

1GHZ~12.75GHZ



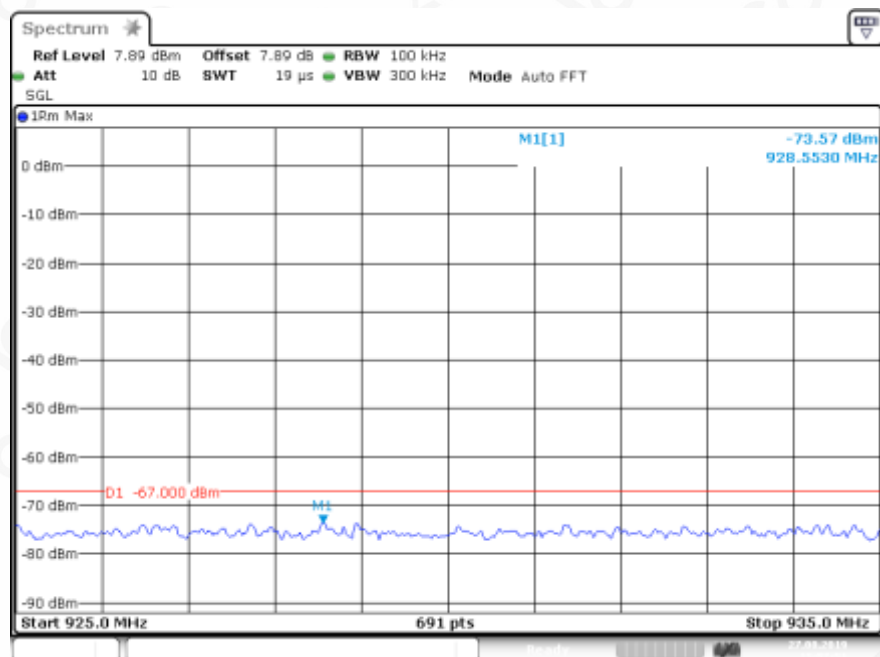
Date: 27.AUG.2019 15:56:54

791MHZ~821MHZ



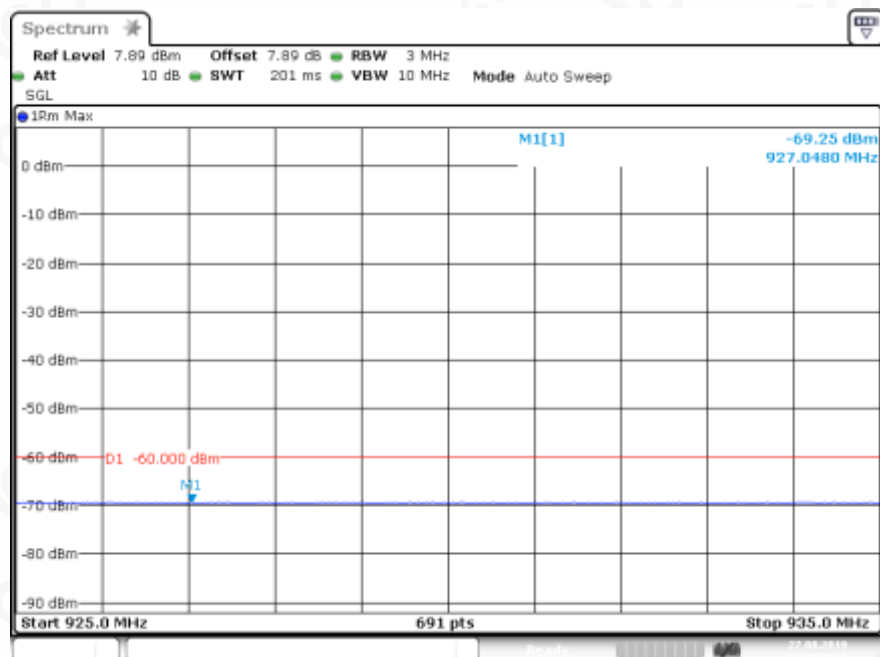
Date: 27.AUG.2019 15:57:23

925MHZ~935MHZ



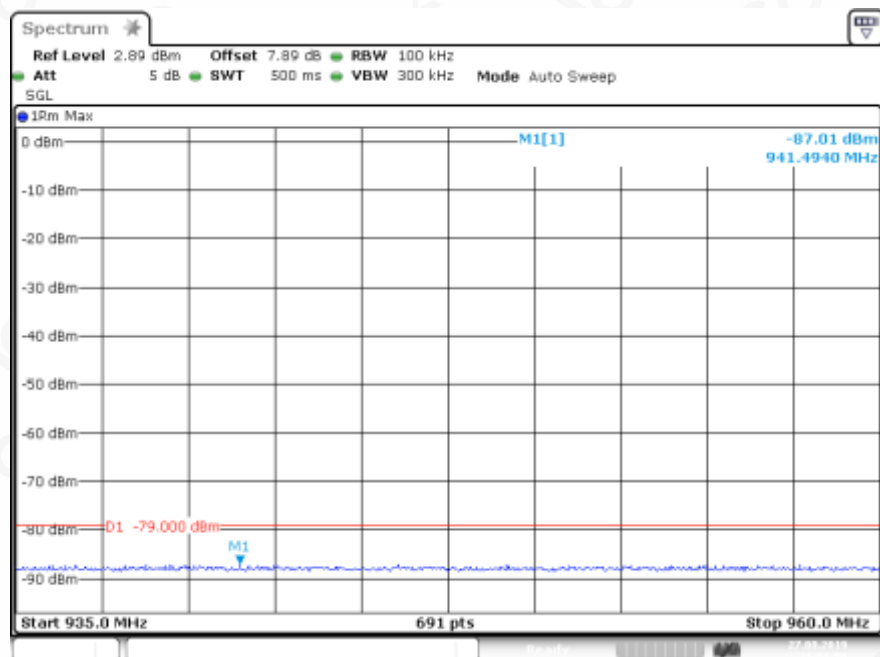
Date: 27.AUG.2019 15:57:52

925MHZ~935MHZ



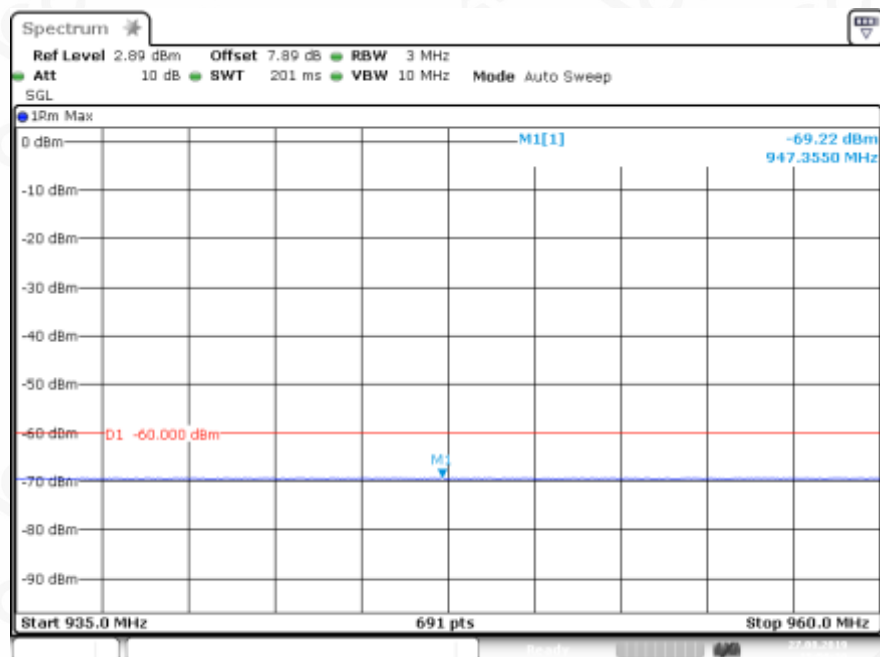
Date: 27.AUG.2019 15:58:31

935MHZ~960MHZ



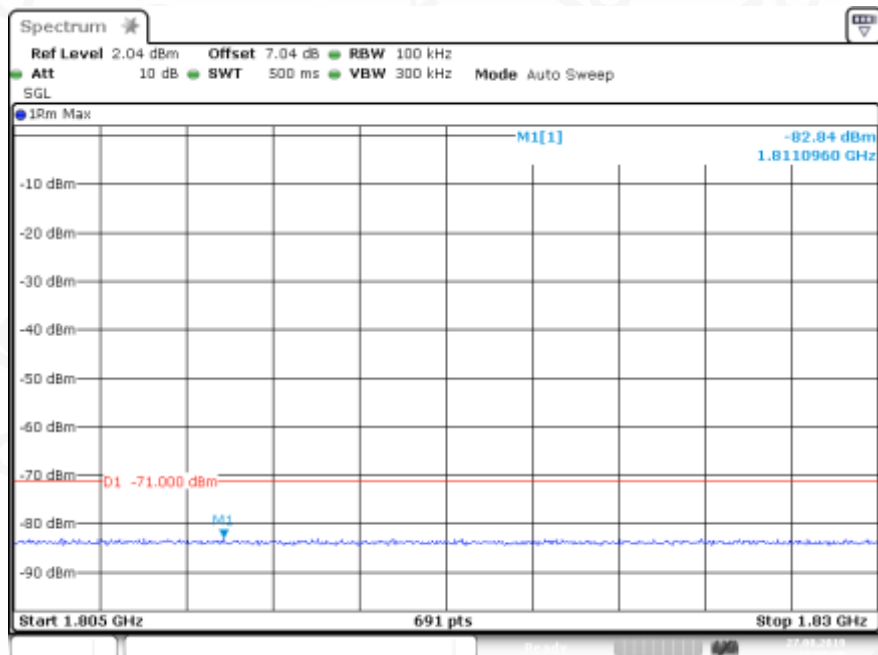
Date: 27.AUG.2019 15:58:49

935MHZ~960MHZ



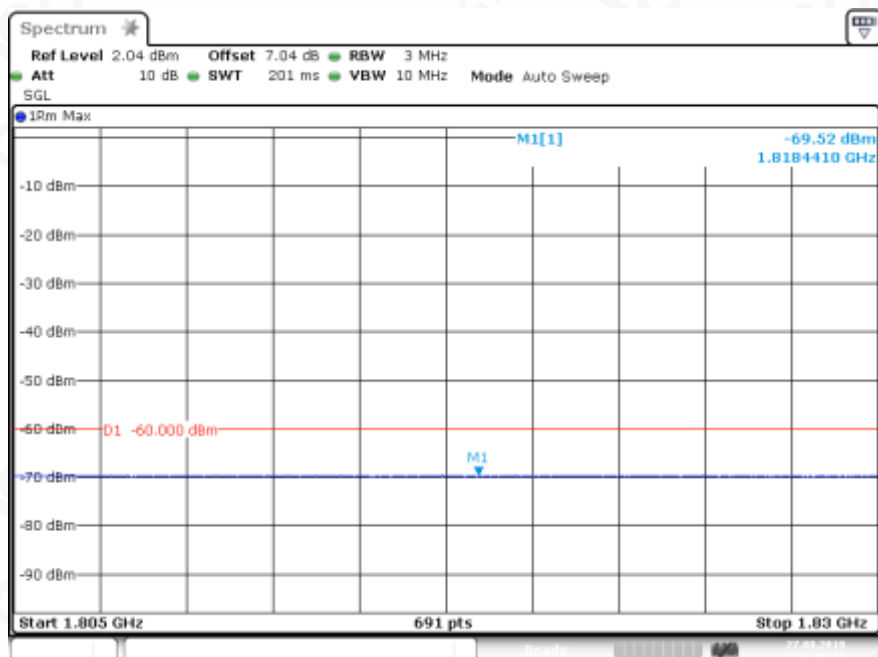
Date: 27.AUG.2019 15:59:29

1805MHZ~1830MHZ



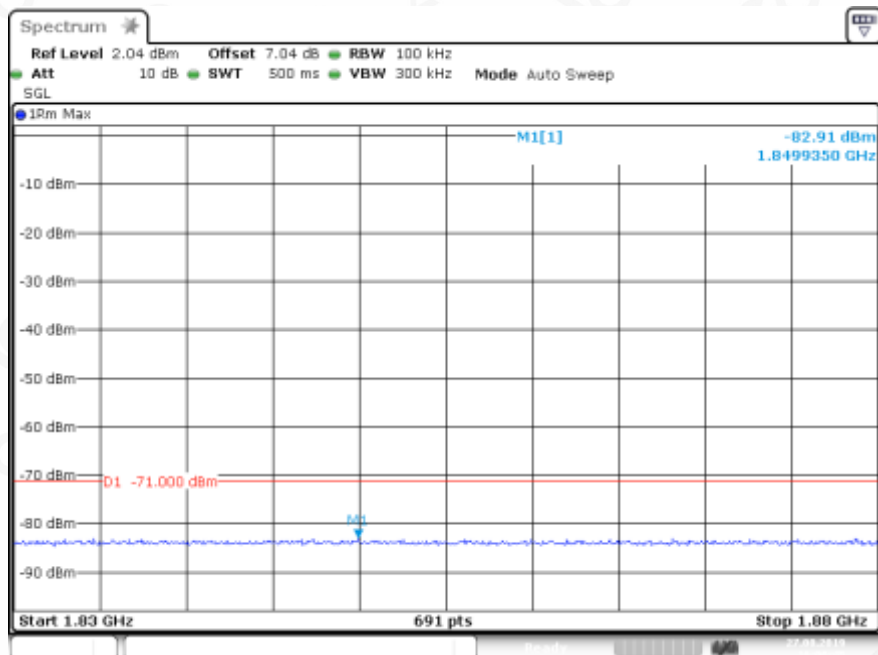
Date: 27.AUG.2019 15:59:47

1805MHZ~1830MHZ



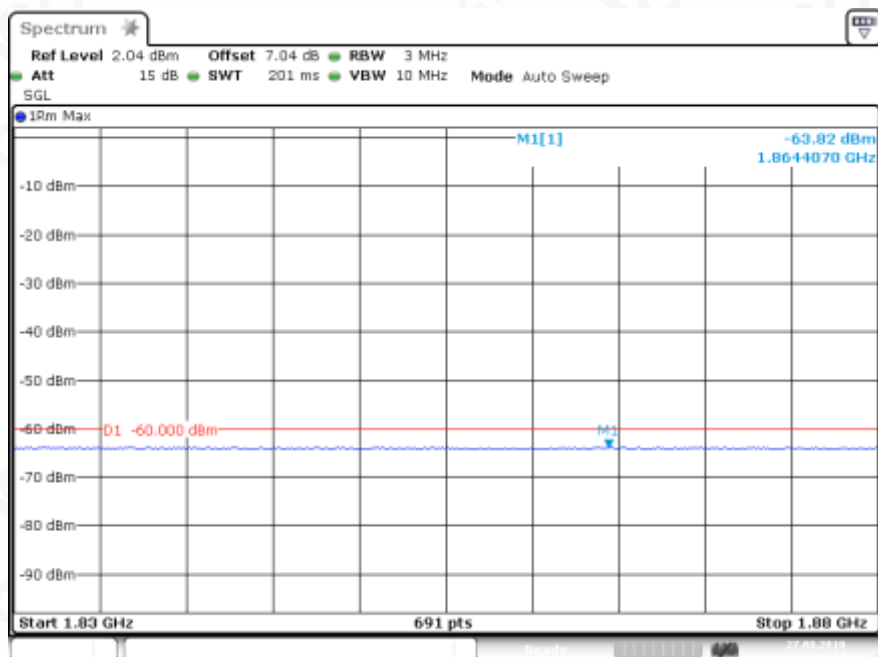
Date: 27.AUG.2019 16:00:27

1830MHZ~1880MHZ



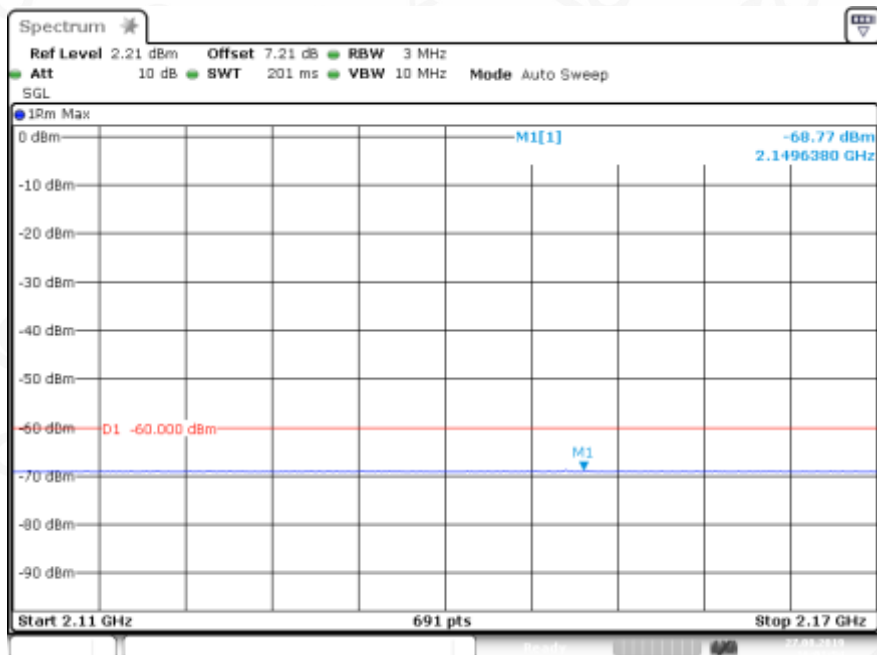
Date: 27.AUG.2019 16:00:45

1830MHZ~1880MHZ



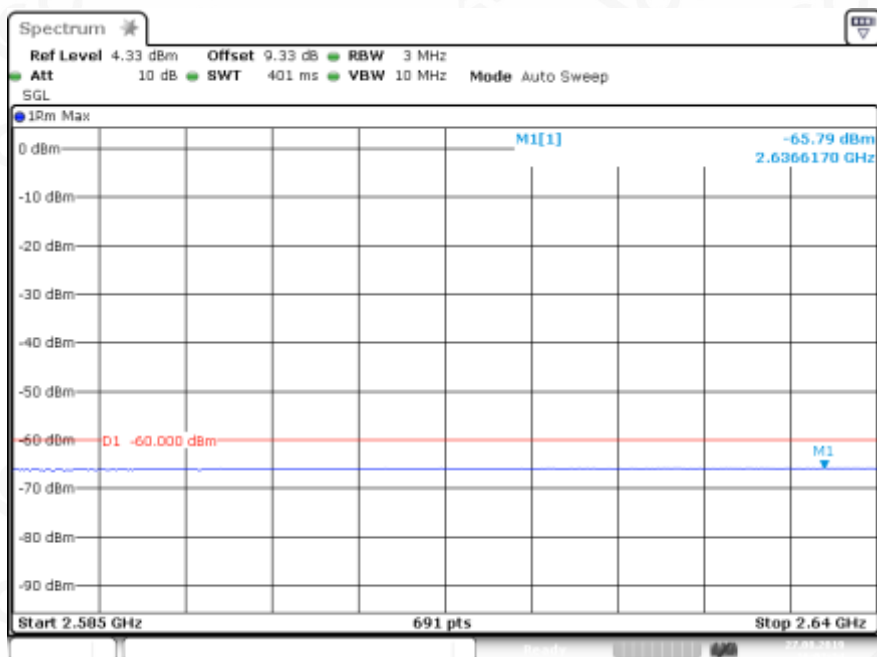
Date: 27.AUG.2019 16:01:14

2110MHZ~2170MHZ



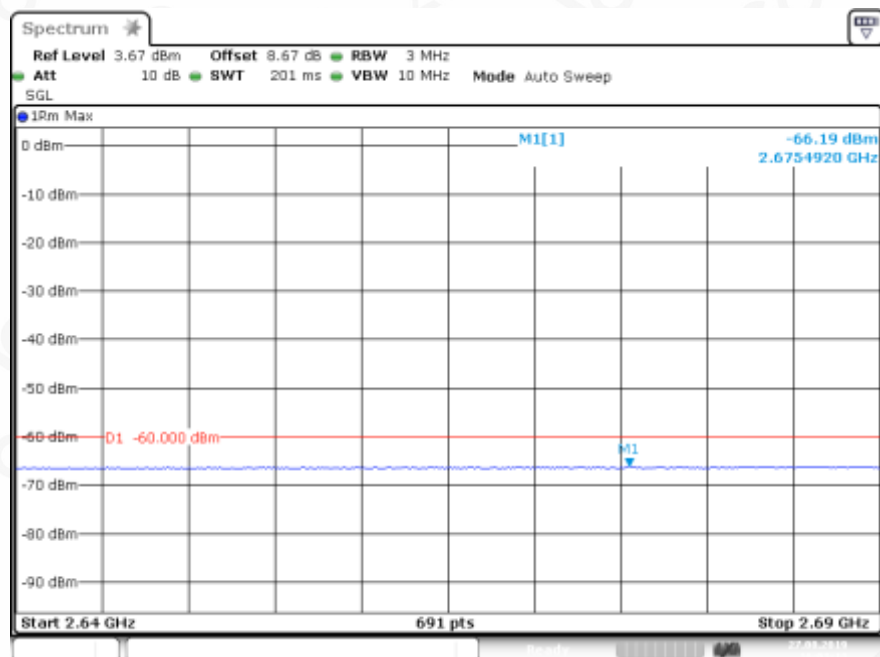
Date: 27.AUG.2019 16:01:53

2585MHZ~2640MHZ



Date: 27.AUG.2019 16:02:33

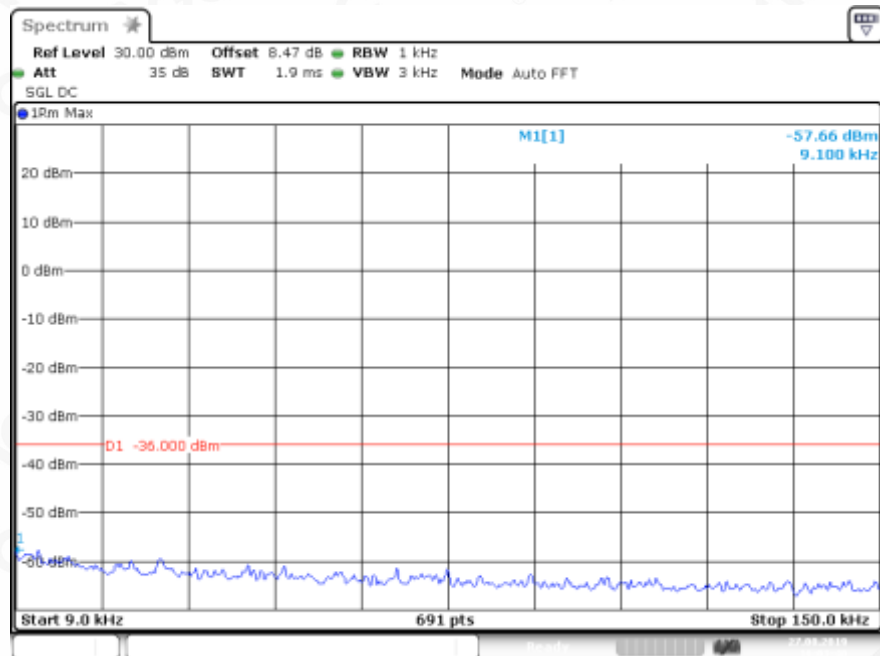
2640MHZ~2690MHZ



Date: 27.AUG.2019 16:03:13

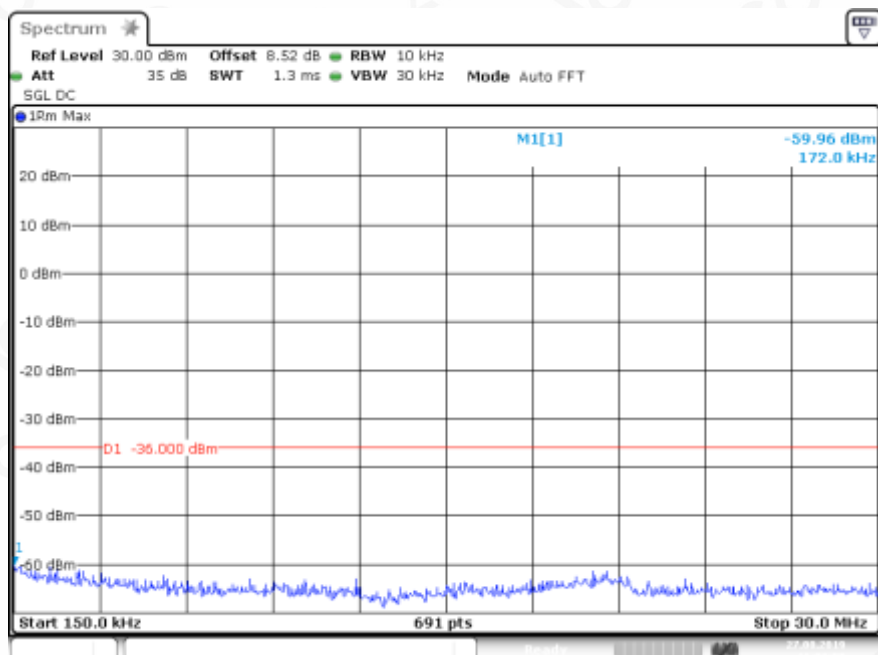
Channel HCH

9KHZ~150KHZ



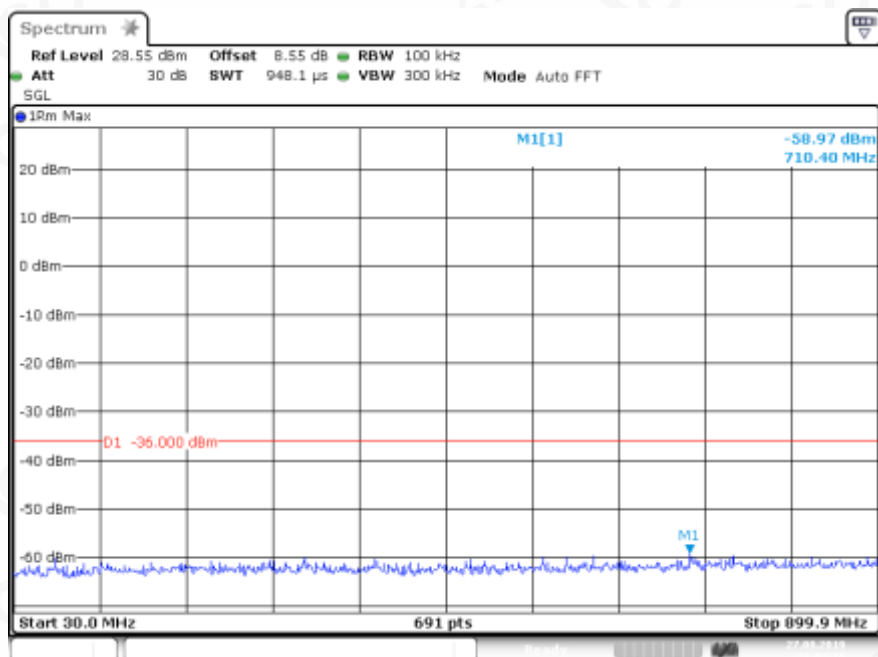
Date: 27.AUG.2019 16:03:40

150KHZ~30MHZ

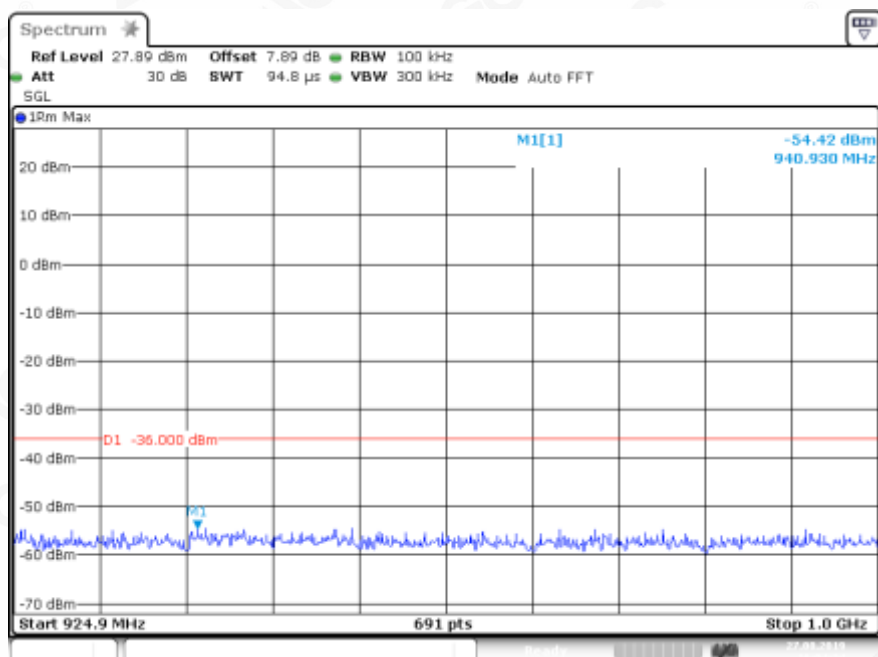


Date: 27.AUG.2019 16:03:58

30MHZ~1GHZ

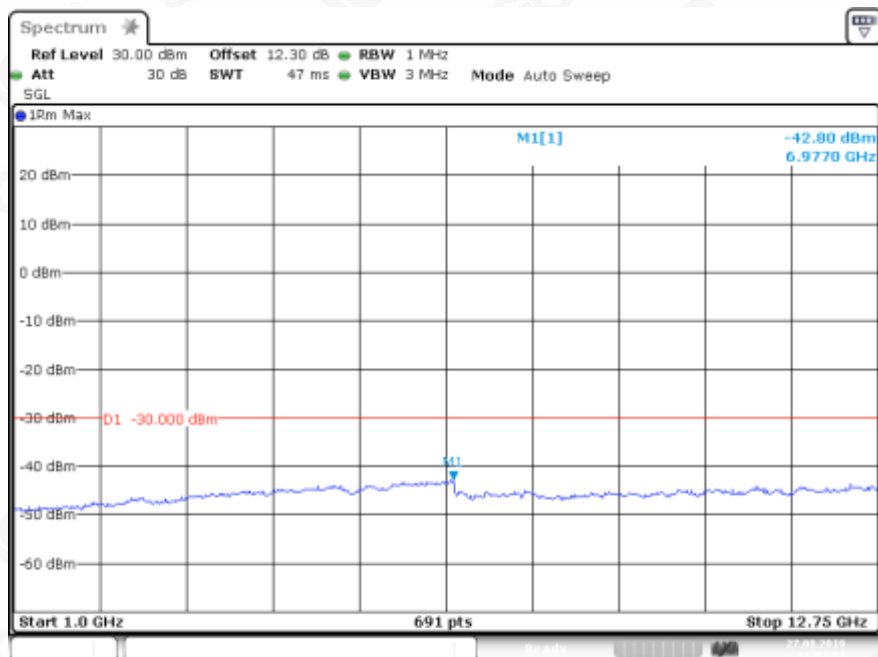


Date: 27.AUG.2019 16:04:16



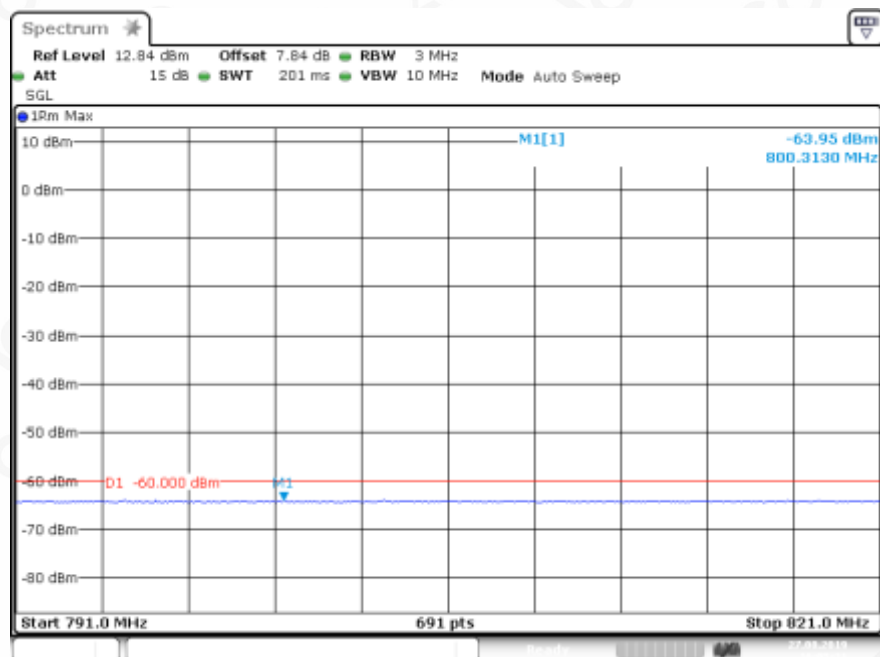
Date: 27.AUG.2019 16:04:34

1GHZ~12.75GHZ



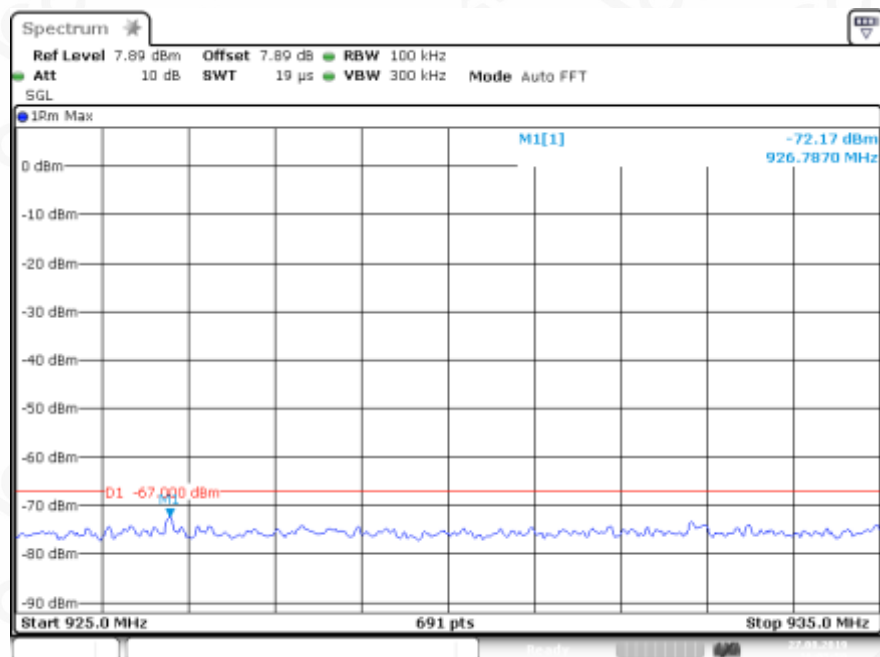
Date: 27.AUG.2019 16:04:52

791MHZ~821MHZ



Date: 27.AUG.2019 16:05:21

925MHZ~935MHZ



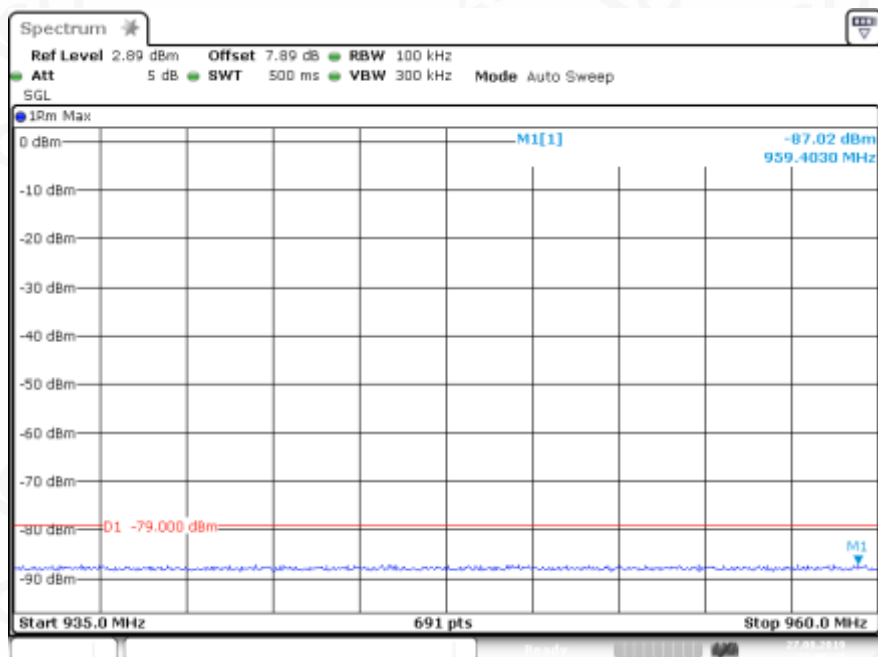
Date: 27.AUG.2019 16:05:50

925MHZ~935MHZ



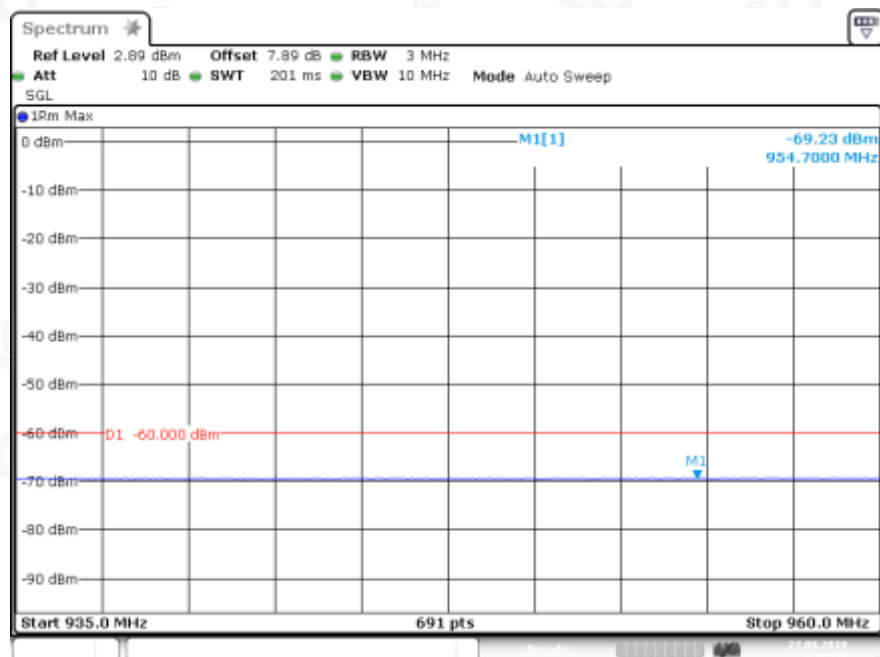
Date: 27.AUG.2019 16:06:29

935MHZ~960MHZ



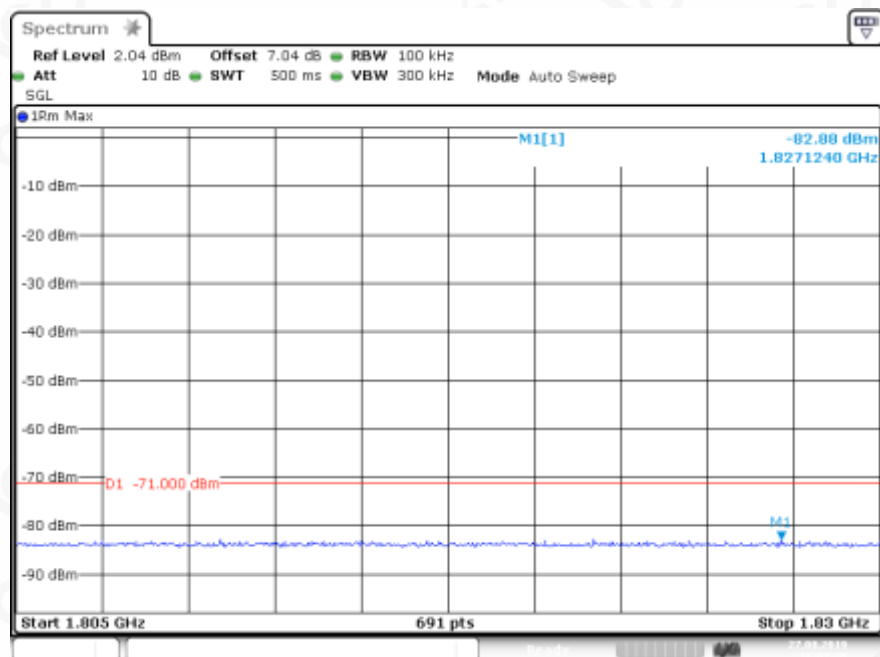
Date: 27.AUG.2019 16:06:47

935MHz~960MHz



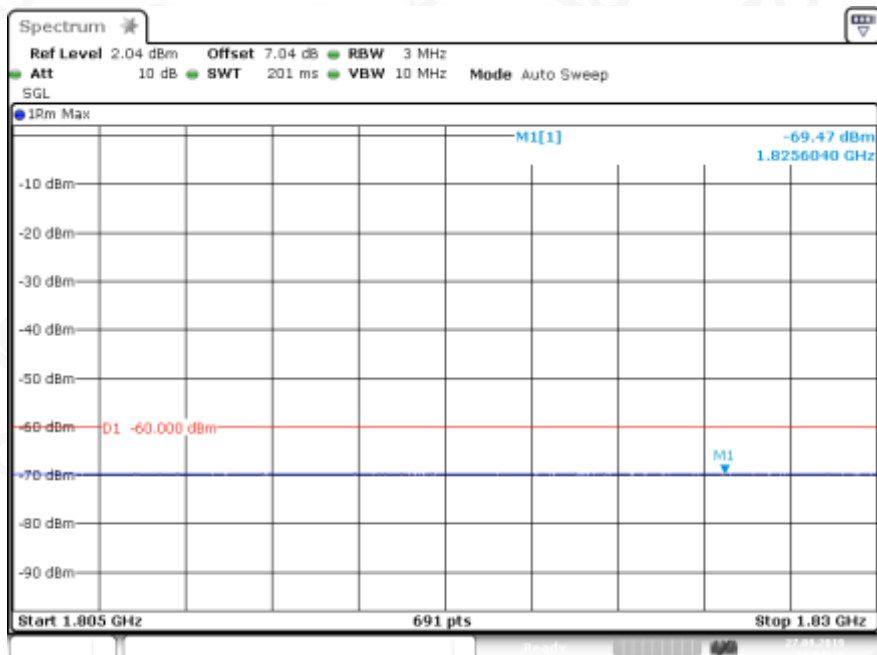
Date: 27.AUG.2019 16:07:27

1805MHz~1830MHz



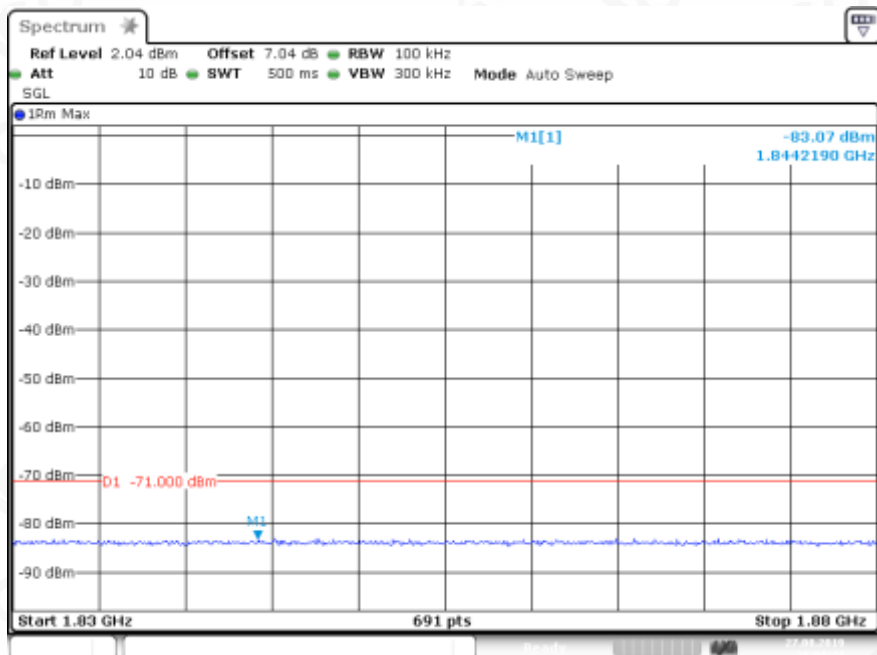
Date: 27.AUG.2019 16:07:45

1805MHZ~1830MHZ



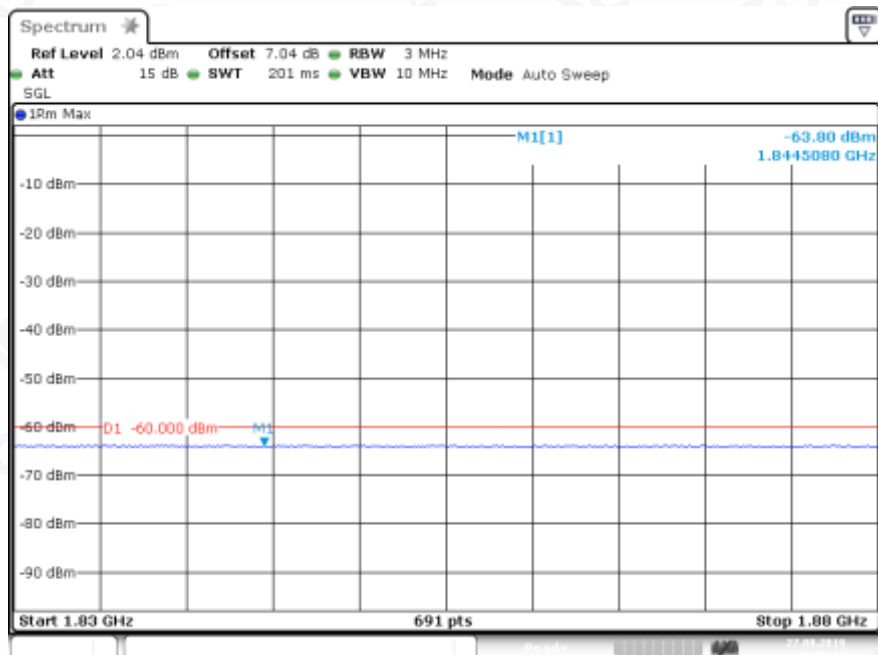
Date: 27.AUG.2019 16:08:25

1830MHZ~1880MHZ



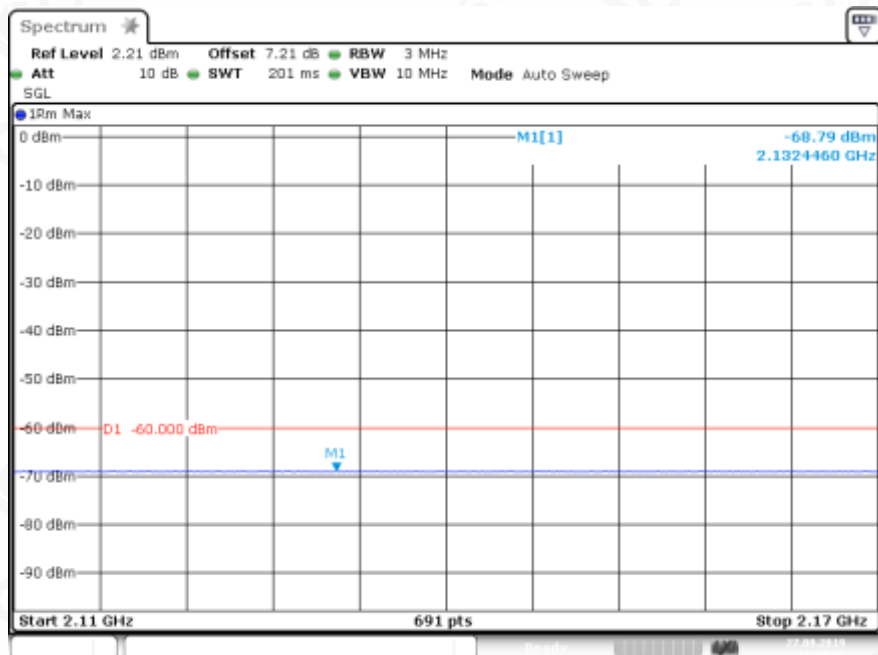
Date: 27.AUG.2019 16:08:43

1830MHz~1880MHz



Date: 27.AUG.2019 16:09:12

2110MHz~2170MHz



Date: 27.AUG.2019 16:09:52



Attestation of Global Compliance

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

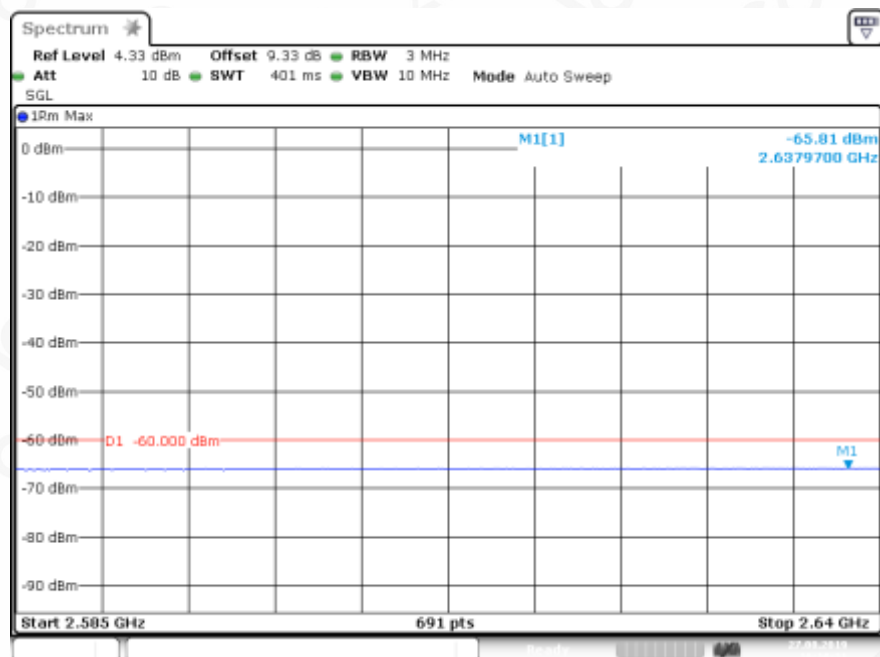
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

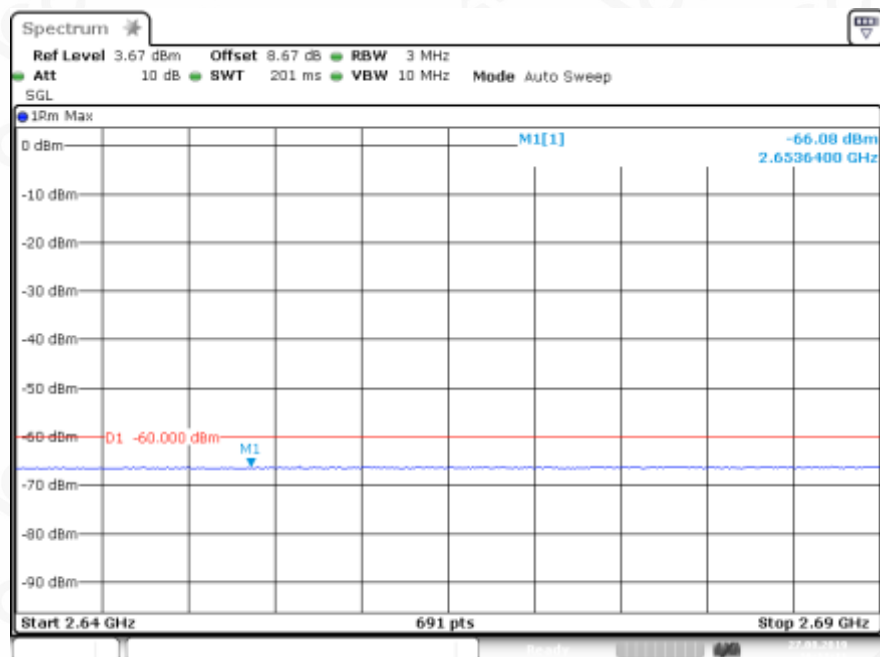
Service Hotline: 400 089 2118

2585MHZ~2640MHZ



Date: 27.AUG.2019 16:10:31

2640MHZ~2690MHZ



Date: 27.AUG.2019 16:11:11

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	24.52	24(+1.7/-3.7)	Pass
			2	23.59	24(+1.7/-3.7)	Pass
			3	23.47	23.5(+2.2/-3.7)	Pass
			4	23.41	23.5(+2.2/-3.7)	Pass
		MCH	1	24.48	24(+1.7/-3.7)	Pass
			2	23.56	24(+1.7/-3.7)	Pass
			3	23.48	23.5(+2.2/-3.7)	Pass
			4	23.50	23.5(+2.2/-3.7)	Pass
		HCH	1	24.53	24(+1.7/-3.7)	Pass
			2	23.67	24(+1.7/-3.7)	Pass
			3	23.70	23.5(+2.2/-3.7)	Pass
			4	23.61	23.5(+2.2/-3.7)	Pass
Band VIII	TNVN	LCH	1	23.62	24(+1.7/-3.7)	Pass
			2	22.86	24(+1.7/-3.7)	Pass
			3	22.88	23.5(+2.2/-3.7)	Pass
			4	22.84	23.5(+2.2/-3.7)	Pass
		MCH	1	23.59	24(+1.7/-3.7)	Pass
			2	22.87	24(+1.7/-3.7)	Pass
			3	22.81	23.5(+2.2/-3.7)	Pass
			4	22.76	23.5(+2.2/-3.7)	Pass
		HCH	1	24.09	24(+1.7/-3.7)	Pass
			2	23.38	24(+1.7/-3.7)	Pass
			3	23.31	23.5(+2.2/-3.7)	Pass
			4	23.26	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

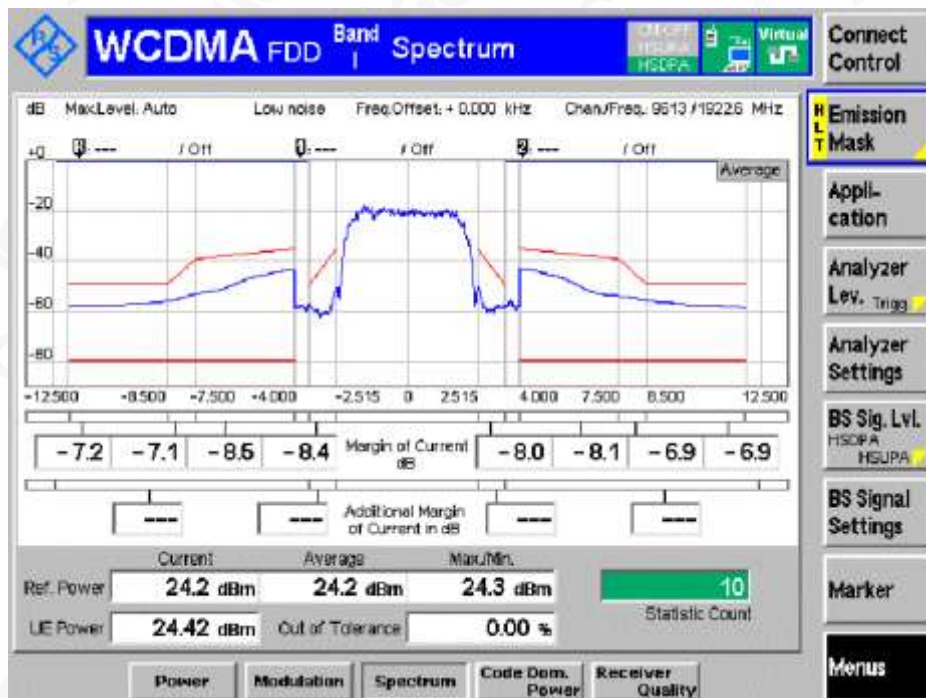
Operating Band	Test Conditions	Sub-test	Test Channel		
			LCH	MCH	HCH
Band VIII	TNVN	1	PASS	PASS	PASS
		2	PASS	PASS	PASS
		3	PASS	PASS	PASS
		4	PASS	PASS	PASS



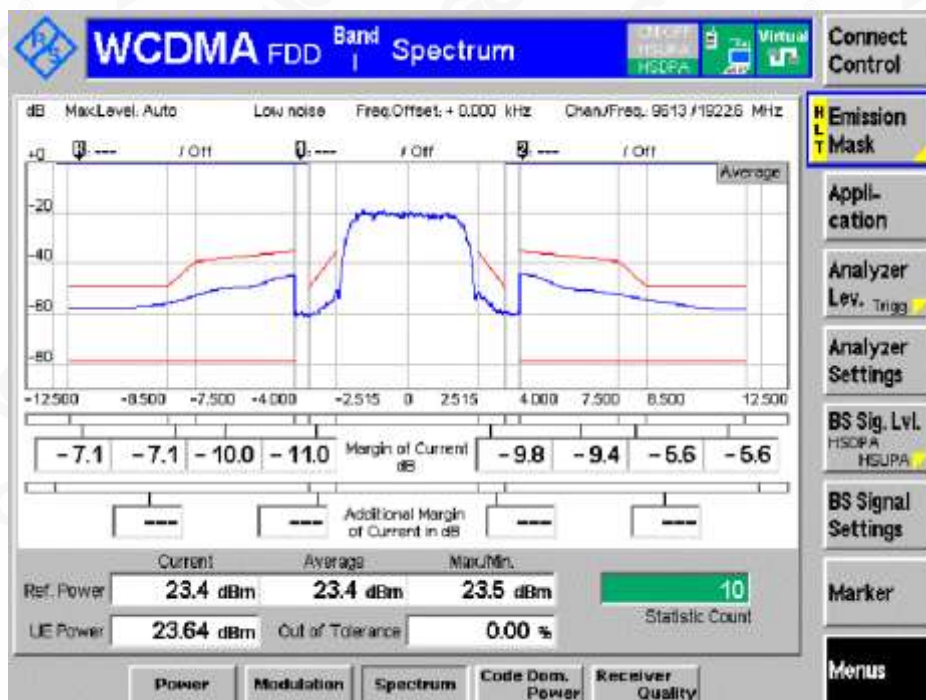
BAND I

Channel LCH

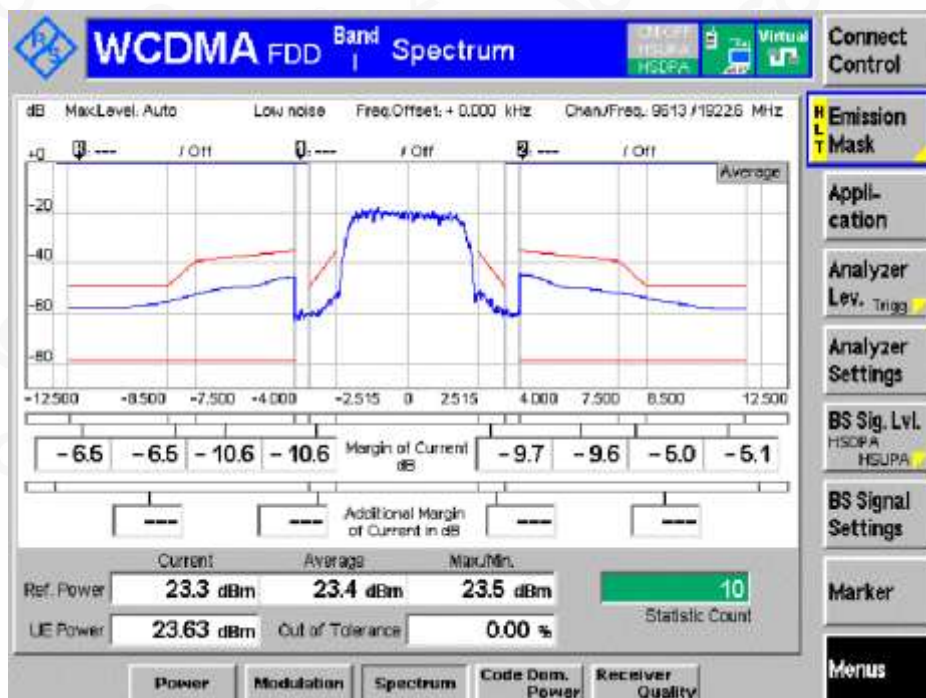
Sub-test 1



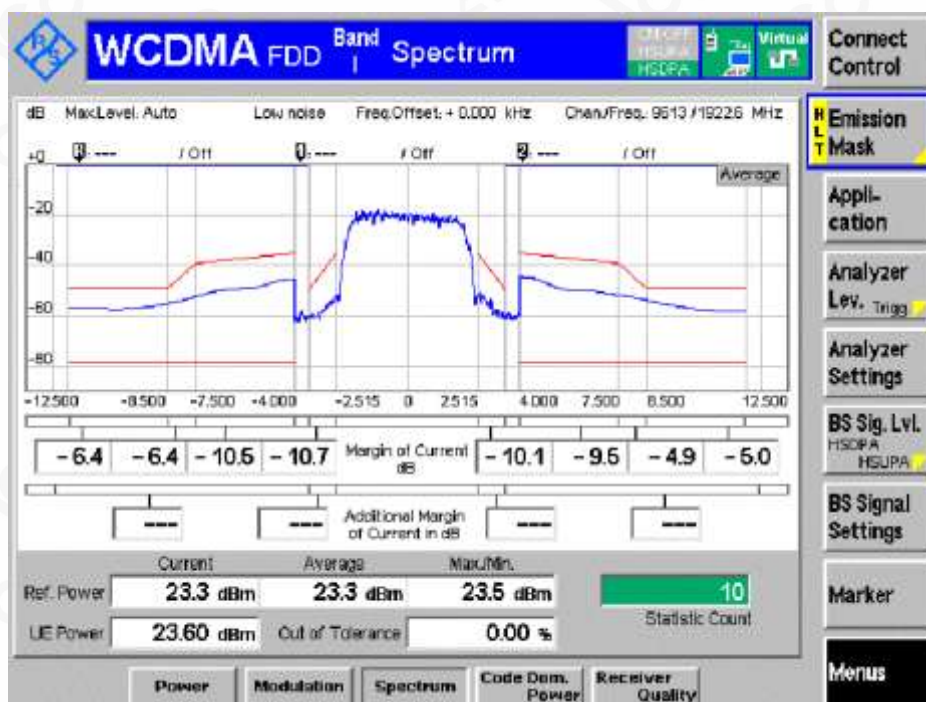
Sub-test 2



Sub-test 3

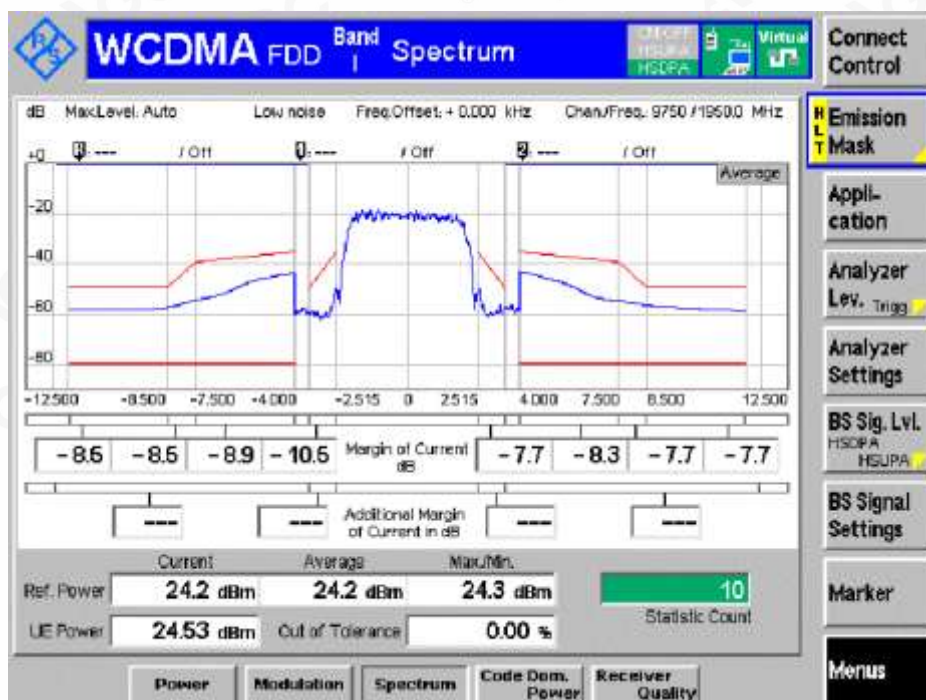


Sub-test 4

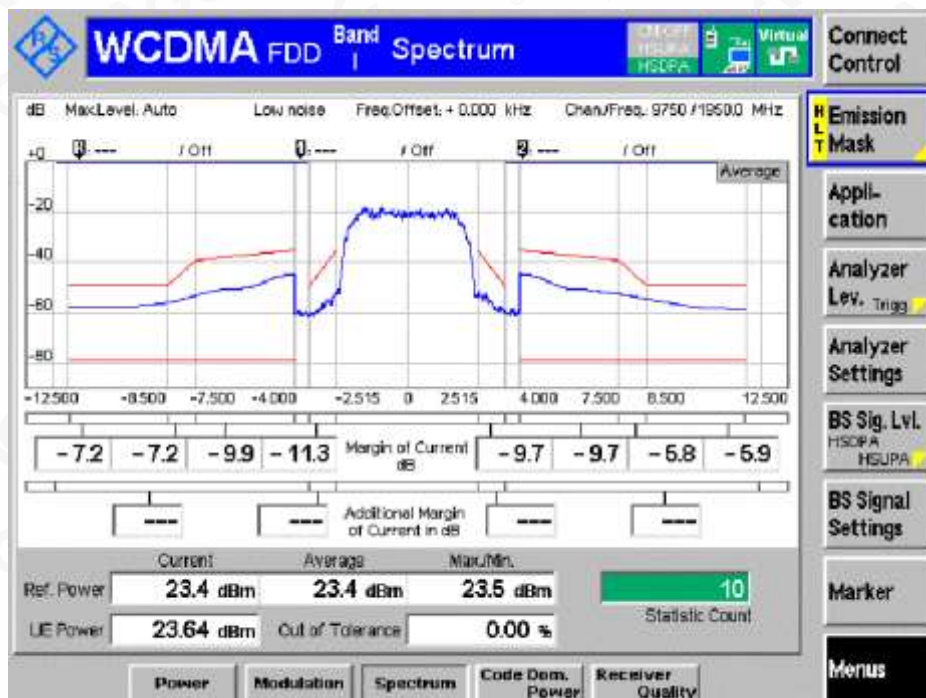


Channel MCH

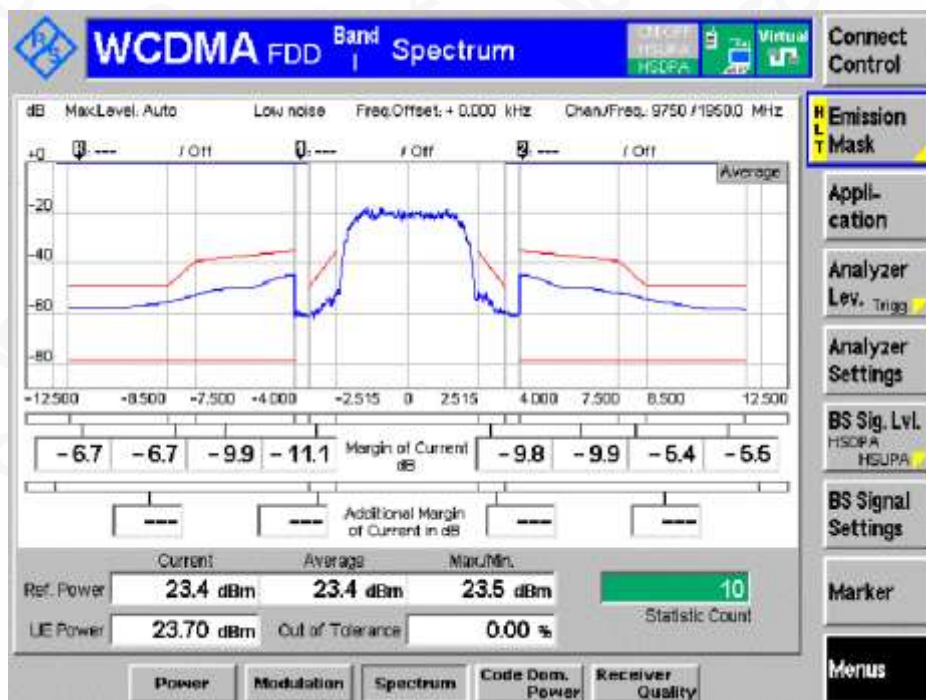
Sub-test 1



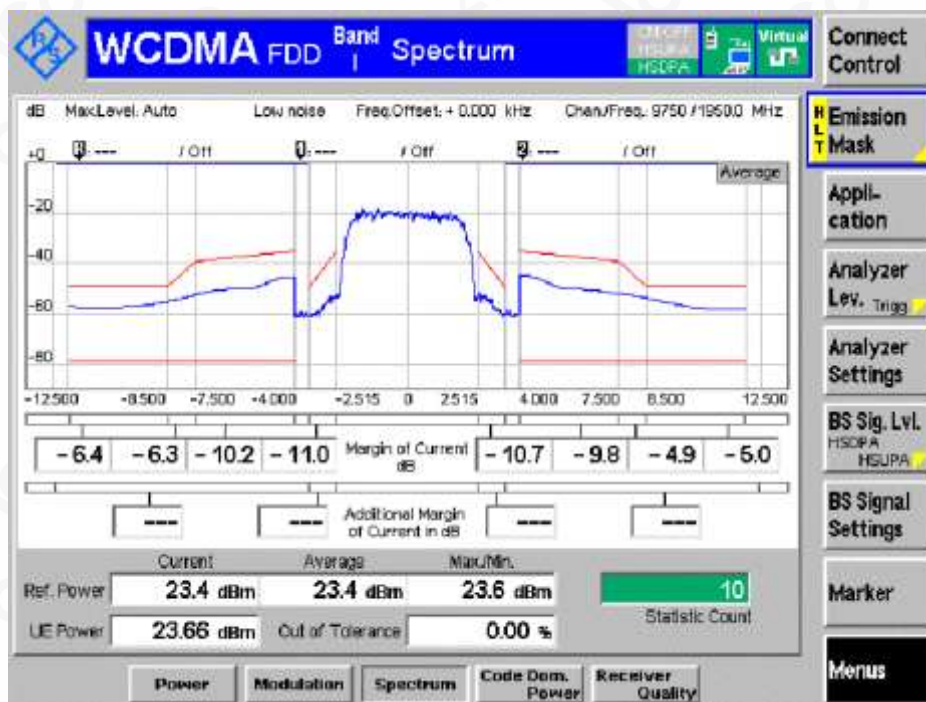
Sub-test 2



Sub-test 3

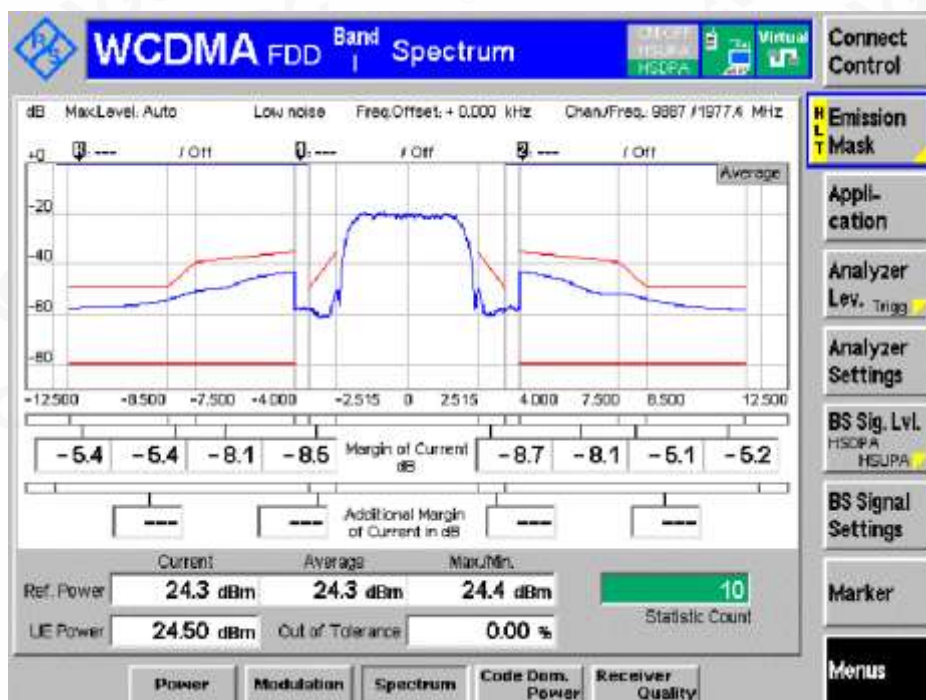


Sub-test 4

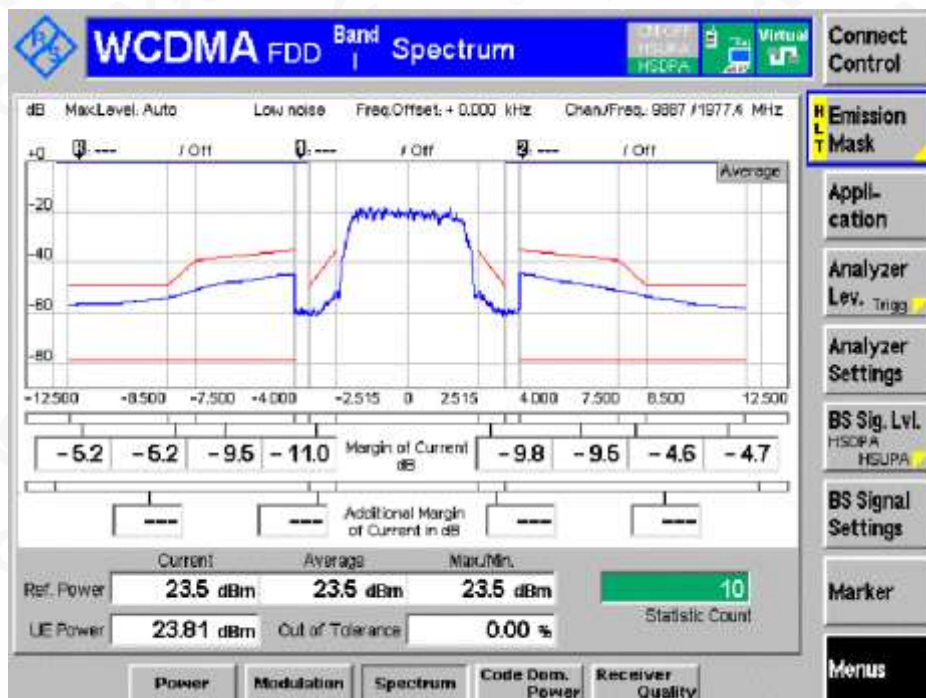


Channel HCH

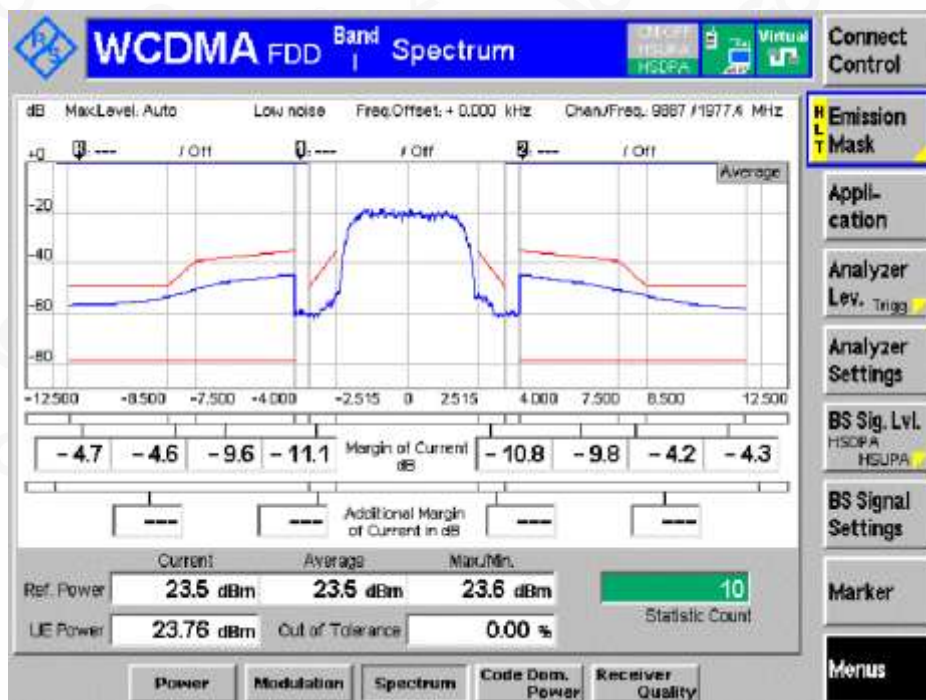
Sub-test 1



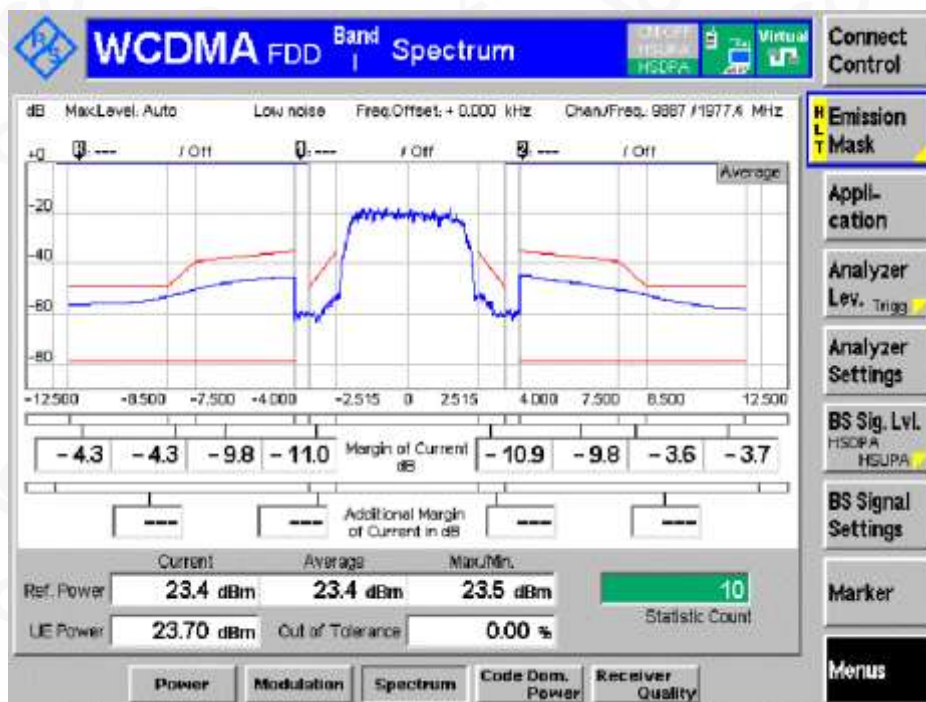
Sub-test 2



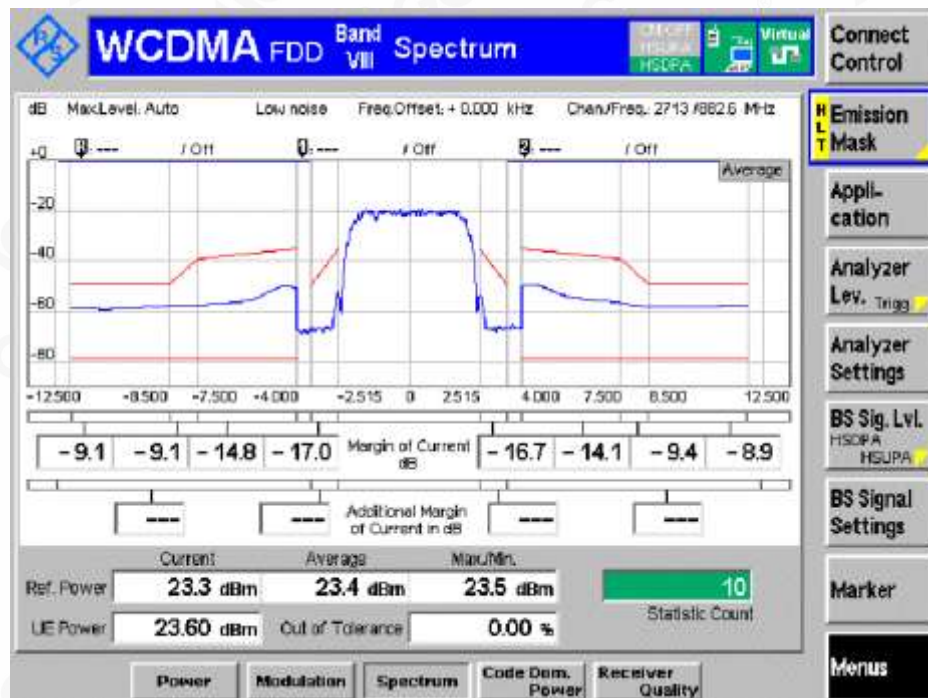
Sub-test 3



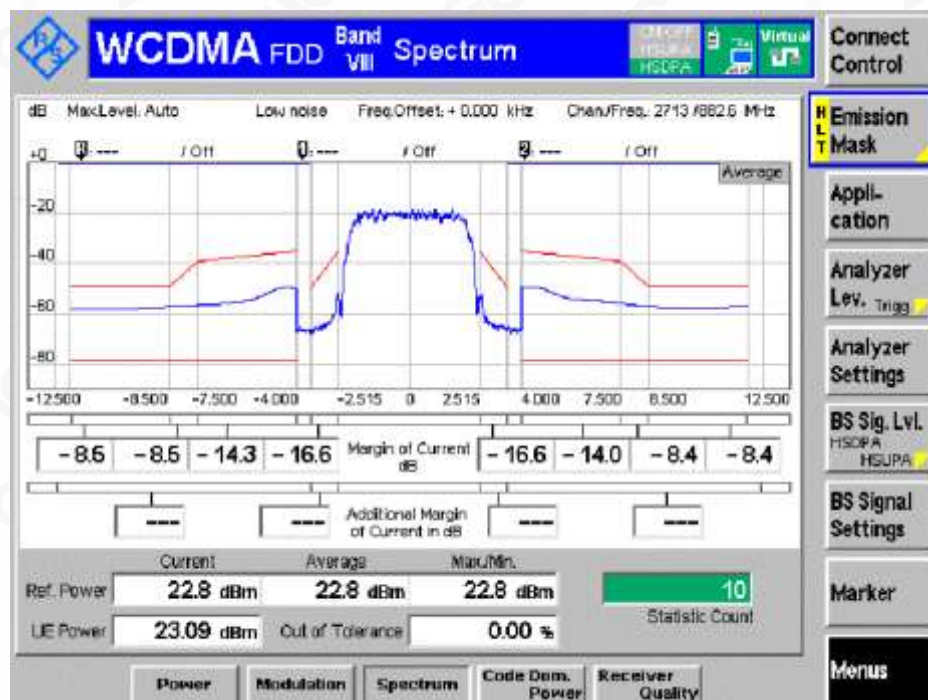
Sub-test 4



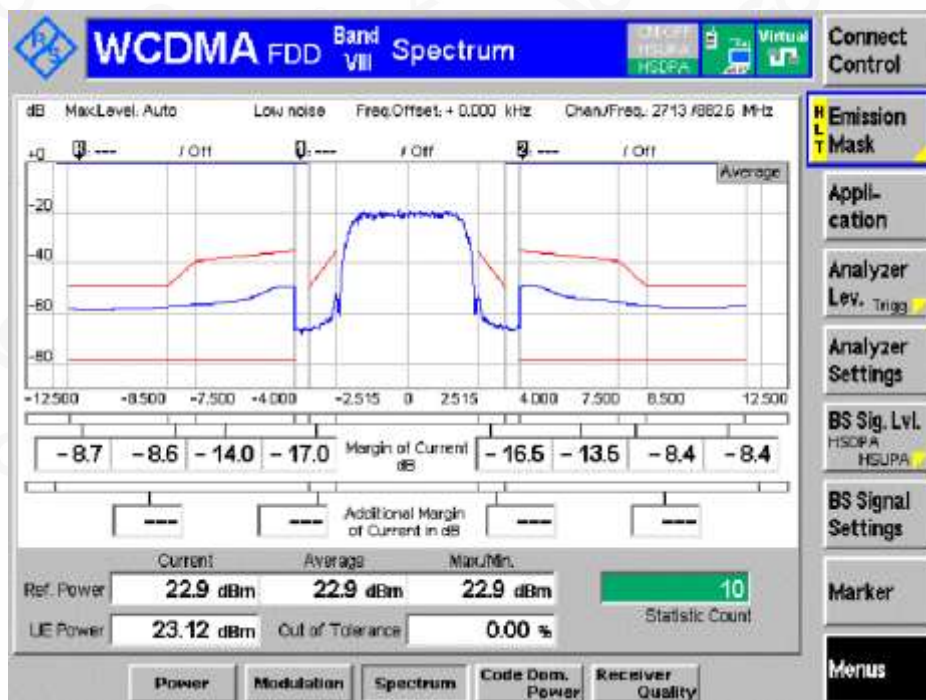
Sub-test 1



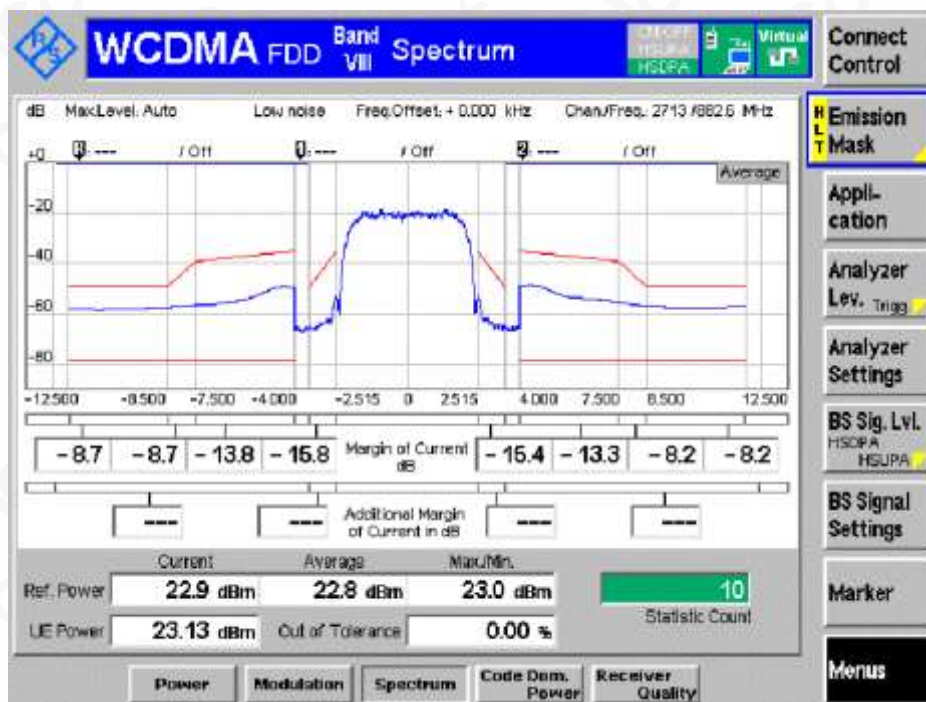
Sub-test 2



Sub-test 3

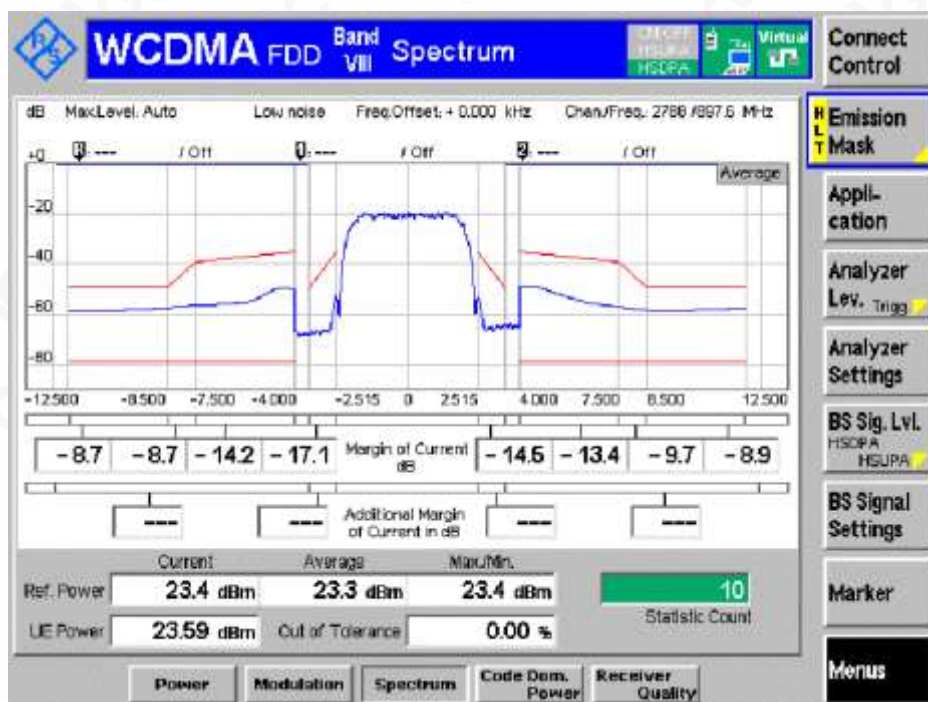


Sub-test 4

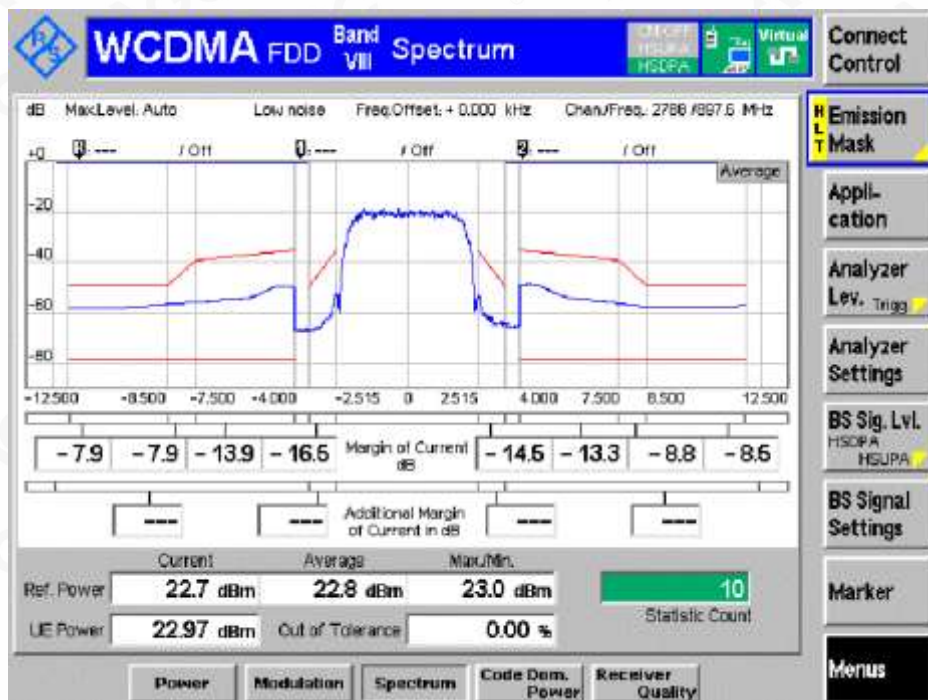


Channel MCH

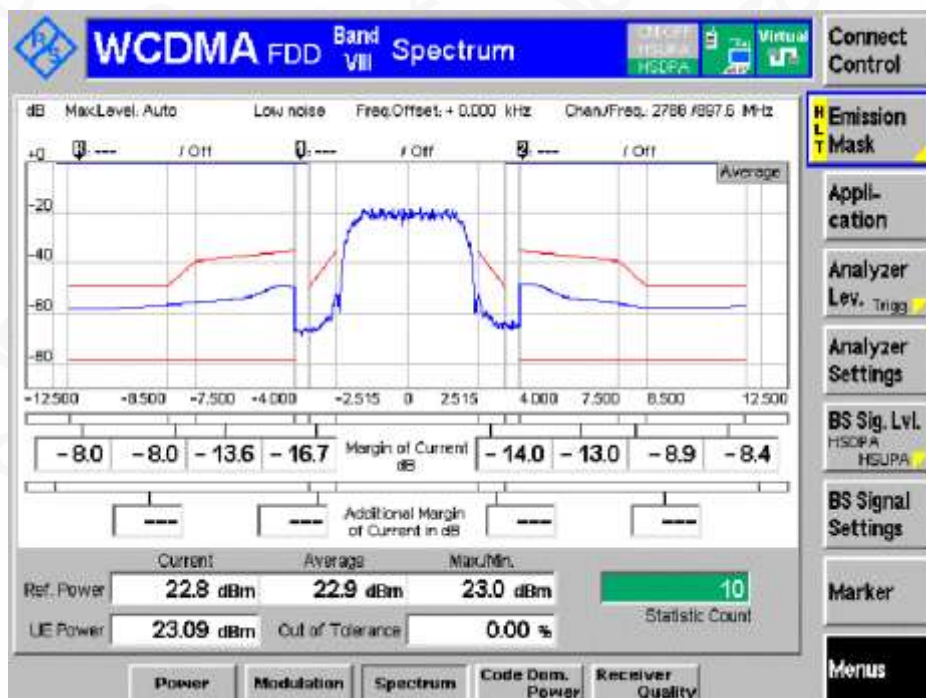
Sub-test 1



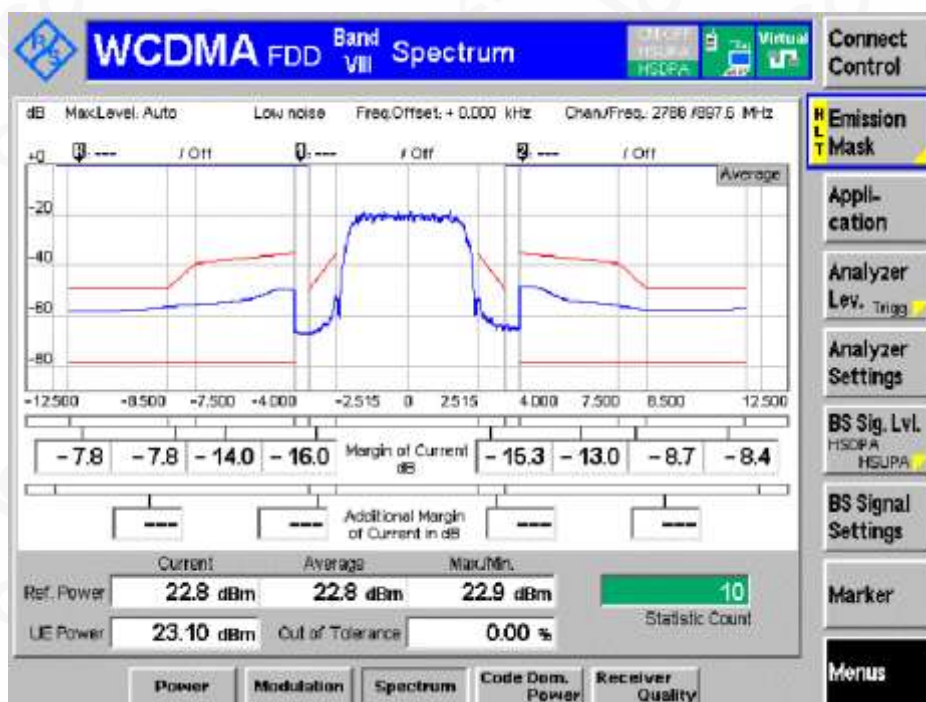
Sub-test 2



Sub-test 3

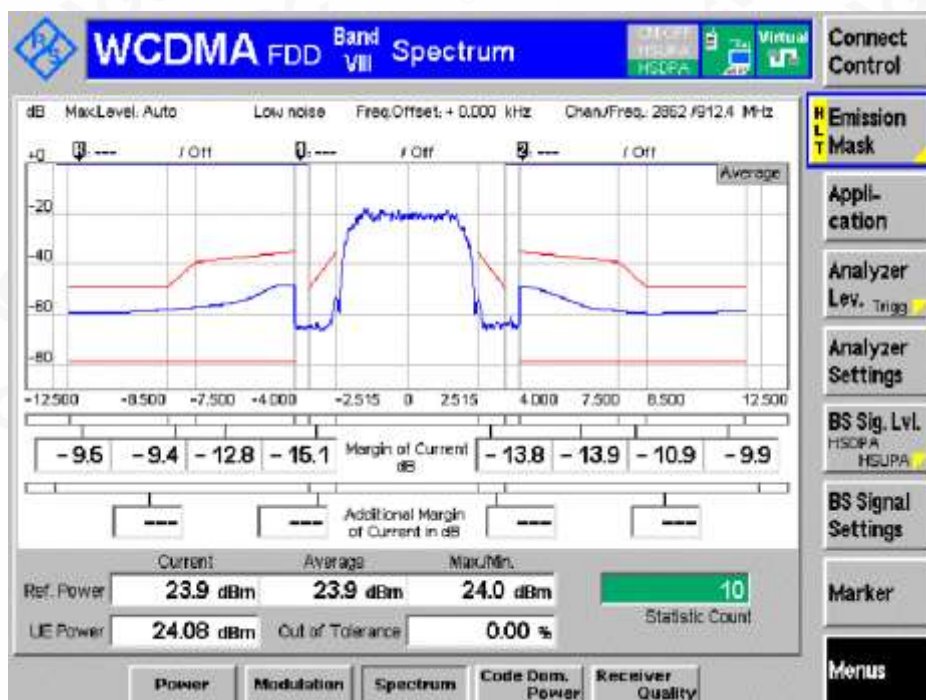


Sub-test 4

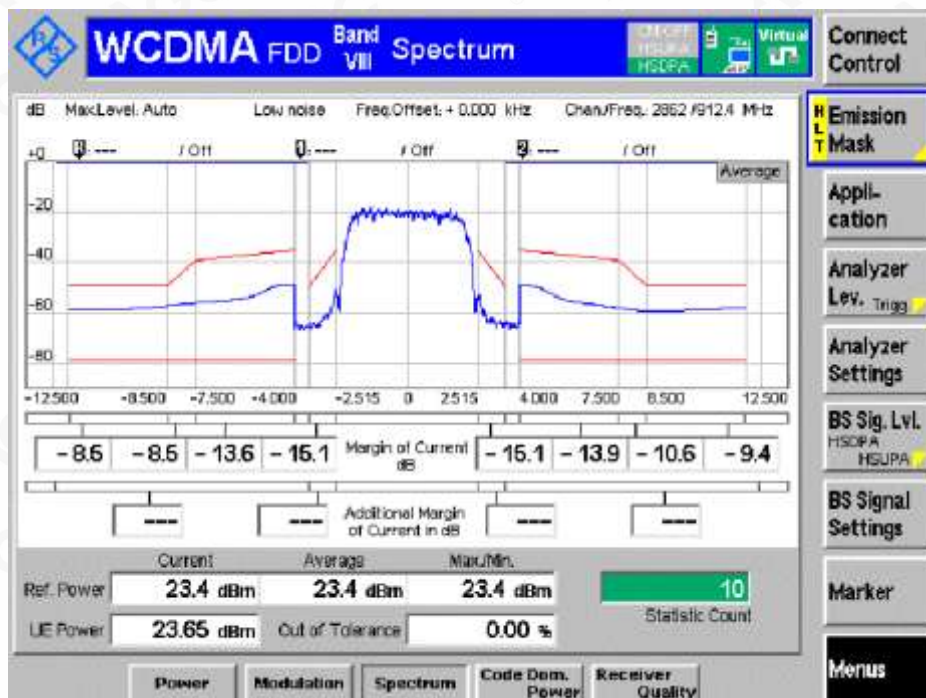


Channel HCH

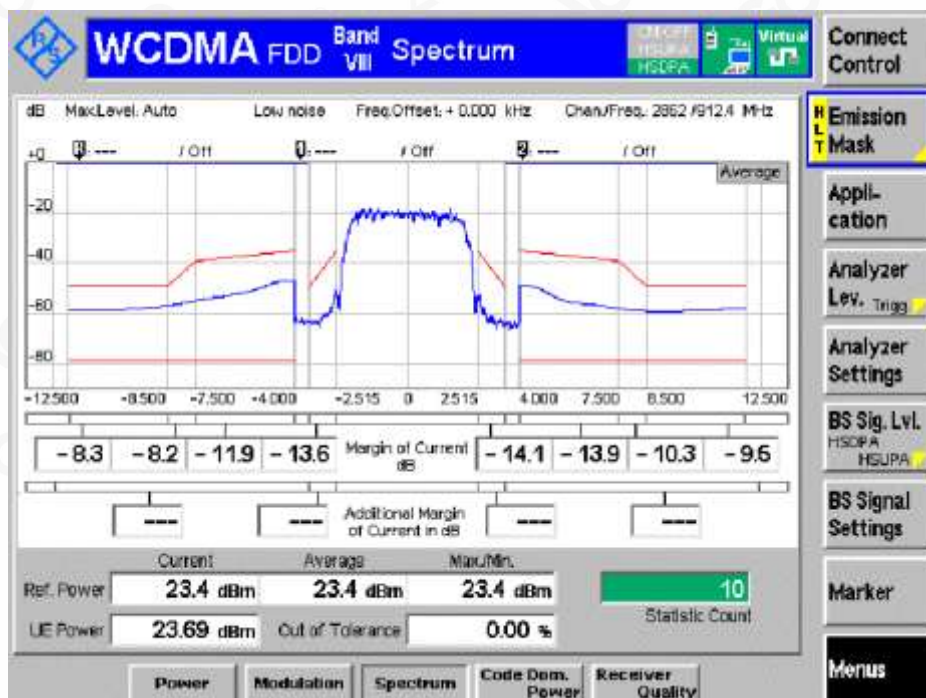
Sub-test 1



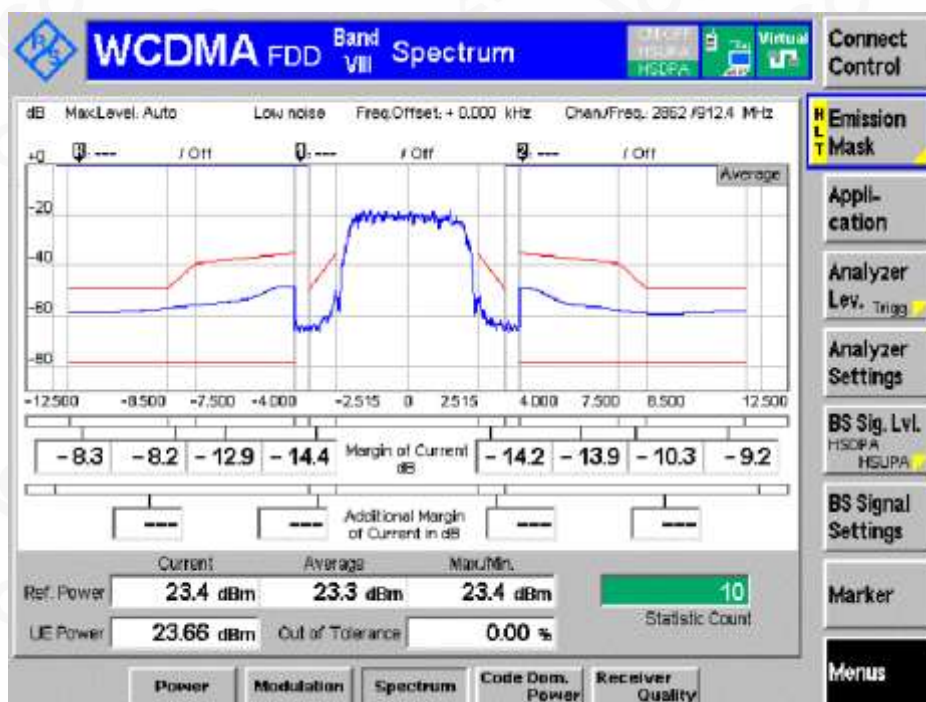
Sub-test 2



Sub-test 3



Sub-test 4



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	-39.83	-32.2	Pass
				-5 MHz	-40.24	-32.2	Pass
				-10MHz	-52.55	-42.2	Pass
				+10MHz	-51.65	-42.2	Pass
			2	+5MHz	-40.94	-32.2	Pass
				-5 MHz	-41.52	-32.2	Pass
				-10MHz	-51.75	-42.2	Pass
				+10MHz	-51.02	-42.2	Pass
			3	+5MHz	-41.07	-32.2	Pass
				-5 MHz	-41.62	-32.2	Pass
				-10MHz	-51.49	-42.2	Pass
				+10MHz	-50.76	-42.2	Pass
			4	+5MHz	-41.02	-32.2	Pass
				-5 MHz	-41.55	-32.2	Pass
				-10MHz	-51.32	-42.2	Pass
				+10MHz	-50.75	-42.2	Pass
		MCH	1	+5MHz	-40.00	-32.2	Pass
				-5 MHz	-40.33	-32.2	Pass
				-10MHz	-52.77	-42.2	Pass
				+10MHz	-52.22	-42.2	Pass
			2	+5MHz	-41.26	-32.2	Pass
				-5 MHz	-41.55	-32.2	Pass
				-10MHz	-51.79	-42.2	Pass
				+10MHz	-51.25	-42.2	Pass
			3	+5MHz	-41.26	-32.2	Pass



				-5 MHz	-41.68	-32.2	Pass
				-10MHz	-51.49	-42.2	Pass
				+10MHz	-50.95	-42.2	Pass
			4	+5MHz	-41.15	-32.2	Pass
				-5 MHz	-41.68	-32.2	Pass
				-10MHz	-51.22	-42.2	Pass
				+10MHz	-50.80	-42.2	Pass
		HCH	1	+5MHz	-39.65	-32.2	Pass
				-5 MHz	-39.56	-32.2	Pass
				-10MHz	-50.72	-42.2	Pass
				+10MHz	-50.61	-42.2	Pass
			2	+5MHz	-40.62	-32.2	Pass
				-5 MHz	-40.46	-32.2	Pass
				-10MHz	-50.24	-42.2	Pass
				+10MHz	-50.20	-42.2	Pass
			3	+5MHz	-40.75	-32.2	Pass
				-5 MHz	-40.68	-32.2	Pass
				-10MHz	-49.84	-42.2	Pass
				+10MHz	-49.96	-42.2	Pass
			4	+5MHz	-40.76	-32.2	Pass
				-5 MHz	-40.62	-32.2	Pass
				-10MHz	-49.64	-42.2	Pass
				+10MHz	-49.79	-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	-46.44	-32.2	Pass
				-5 MHz	-47.35	-32.2	Pass
				-10MHz	-53.25	-42.2	Pass
				+10MHz	-52.80	-42.2	Pass
			2	+5MHz	-46.10	-32.2	Pass
				-5 MHz	-46.55	-32.2	Pass
				-10MHz	-52.69	-42.2	Pass
				+10MHz	-52.18	-42.2	Pass
			3	+5MHz	-45.66	-32.2	Pass
				-5 MHz	-46.09	-32.2	Pass
				-10MHz	-52.85	-42.2	Pass
				+10MHz	-52.14	-42.2	Pass
			4	+5MHz	-45.57	-32.2	Pass
				-5 MHz	-46.20	-32.2	Pass
				-10MHz	-52.74	-42.2	Pass
				+10MHz	-51.98	-42.2	Pass
		MCH	1	+5MHz	-45.67	-32.2	Pass
				-5 MHz	-47.09	-32.2	Pass
				-10MHz	-52.89	-42.2	Pass
				+10MHz	-52.94	-42.2	Pass
			2	+5MHz	-45.49	-32.2	Pass
				-5 MHz	-46.43	-32.2	Pass
				-10MHz	-52.26	-42.2	Pass
				+10MHz	-52.30	-42.2	Pass
			3	+5MHz	-45.40	-32.2	Pass
				-5 MHz	-46.21	-32.2	Pass



				-10MHz	-52.26	-42.2	Pass
				+10MHz	-52.46	-42.2	Pass
			4	+5MHz	-45.28	-32.2	Pass
				-5 MHz	-46.03	-32.2	Pass
				-10MHz	-52.19	-42.2	Pass
				+10MHz	-52.24	-42.2	Pass
		HCH	1	+5MHz	-46.13	-32.2	Pass
				-5 MHz	-45.63	-32.2	Pass
				-10MHz	-53.66	-42.2	Pass
				+10MHz	-54.09	-42.2	Pass
			2	+5MHz	-46.04	-32.2	Pass
				-5 MHz	-45.48	-32.2	Pass
				-10MHz	-52.90	-42.2	Pass
				+10MHz	-53.59	-42.2	Pass
			3	+5MHz	-45.60	-32.2	Pass
				-5 MHz	-44.70	-32.2	Pass
				-10MHz	-52.43	-42.2	Pass
				+10MHz	-53.23	-42.2	Pass
			4	+5MHz	-45.85	-32.2	Pass
				-5 MHz	-44.97	-32.2	Pass
				-10MHz	-52.80	-42.2	Pass
				+10MHz	-53.54	-42.2	Pass

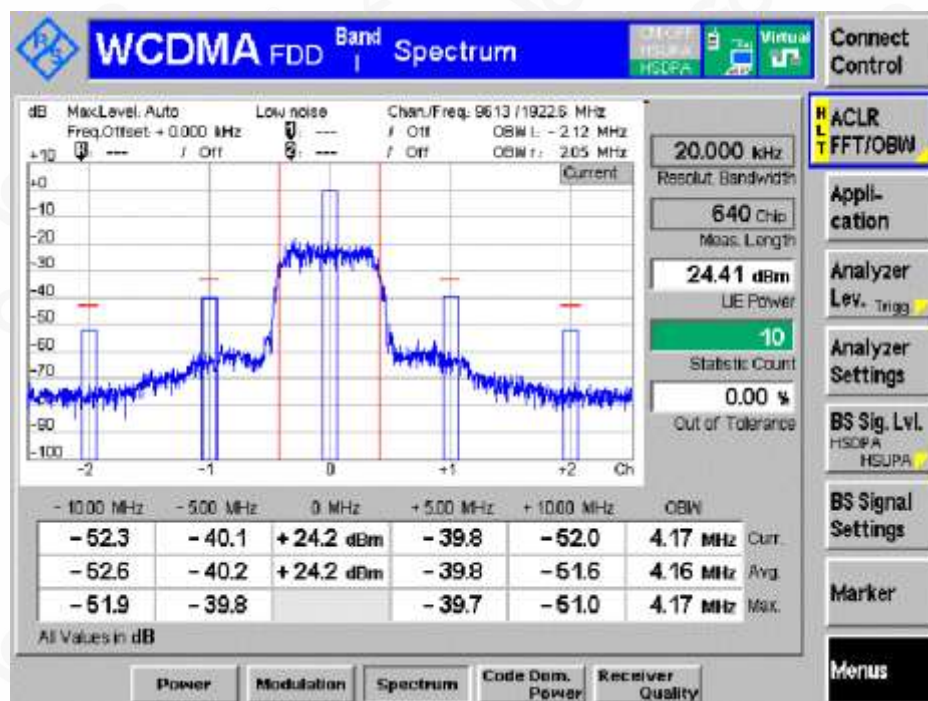


BAND I

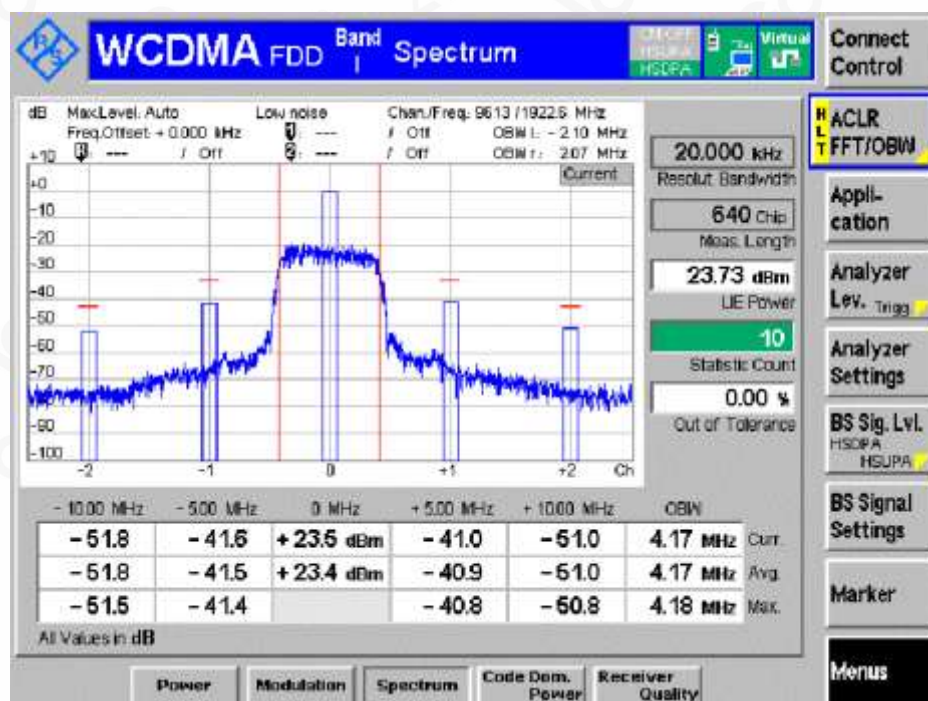
TNPN

Channel LCH

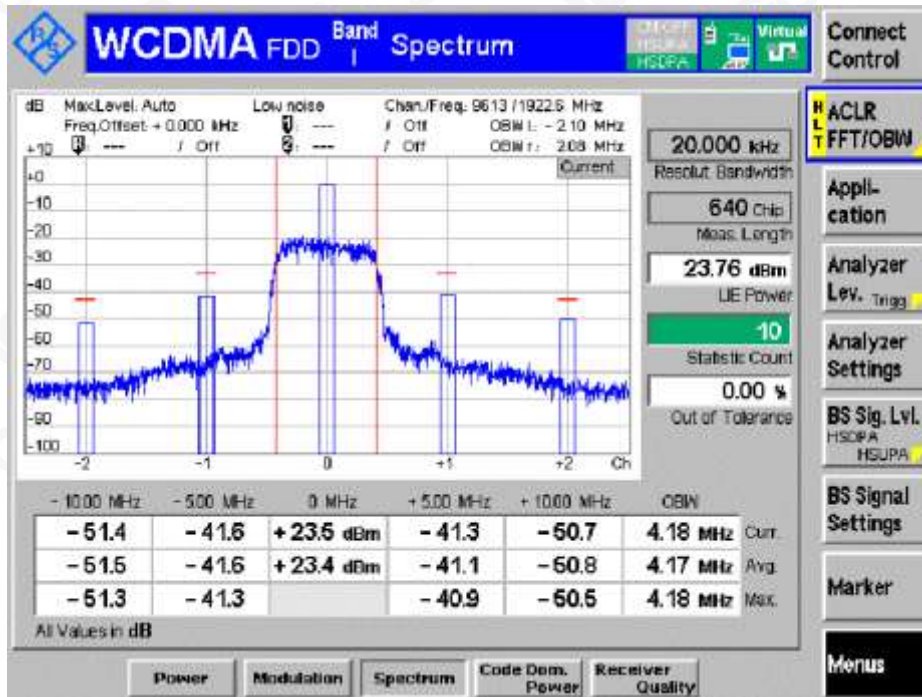
Sub-test 1



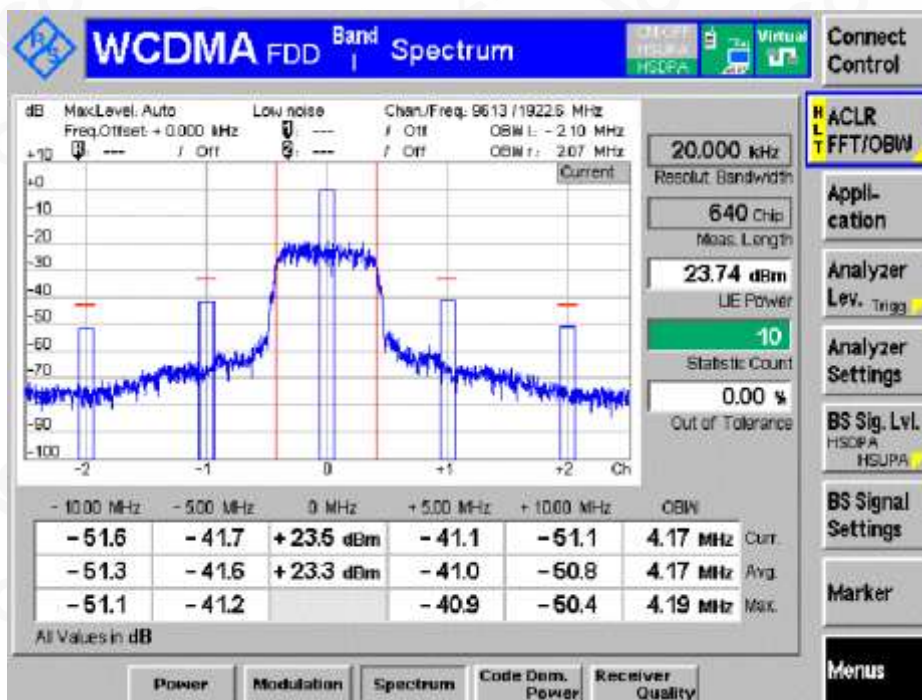
Sub-test 2



Sub-test 3

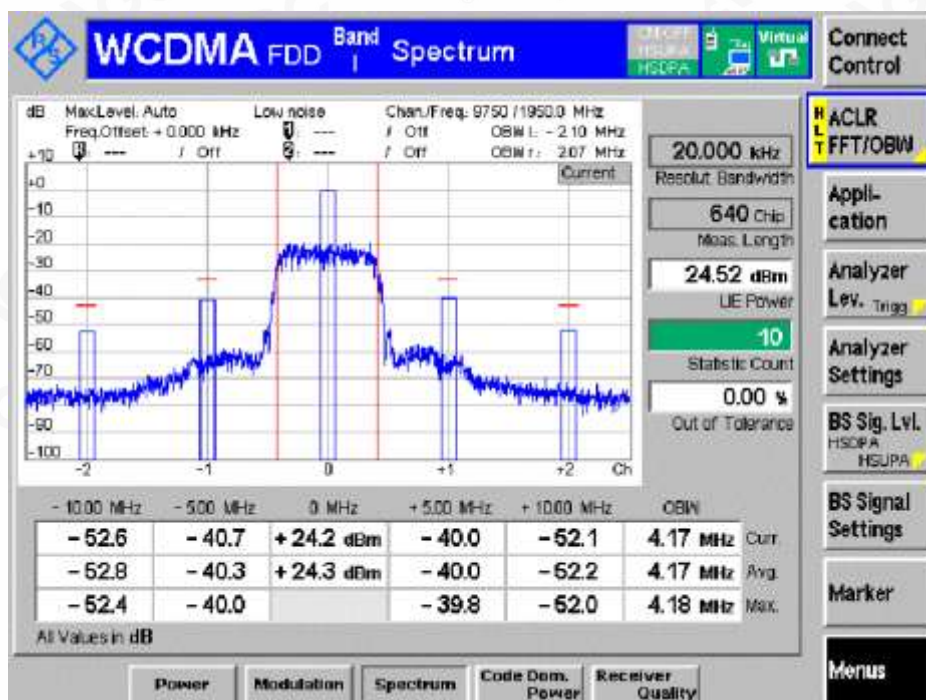


Sub-test 4

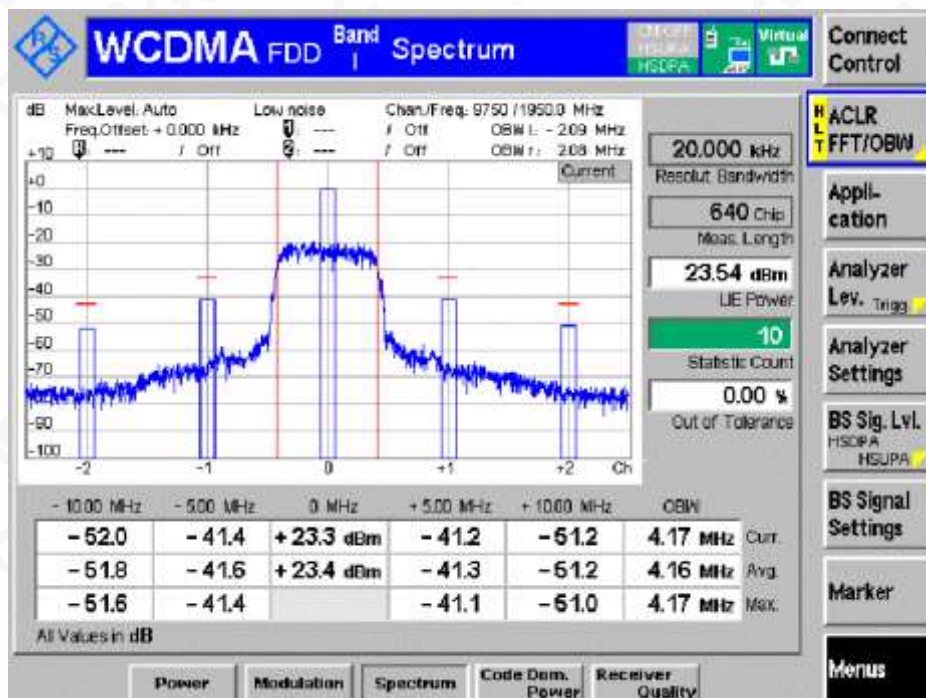


Channel MCH

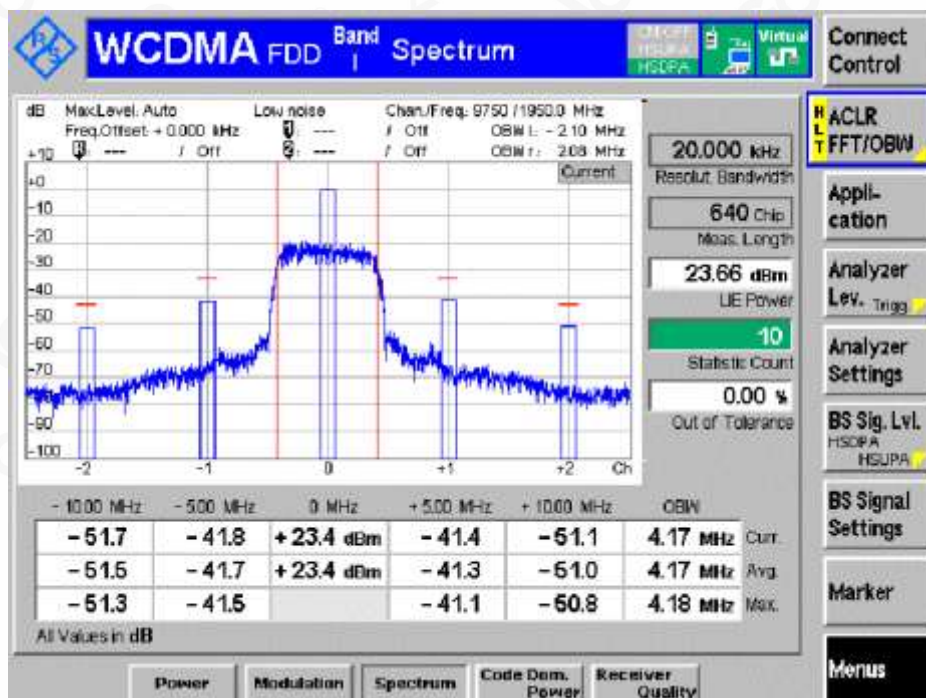
Sub-test 1



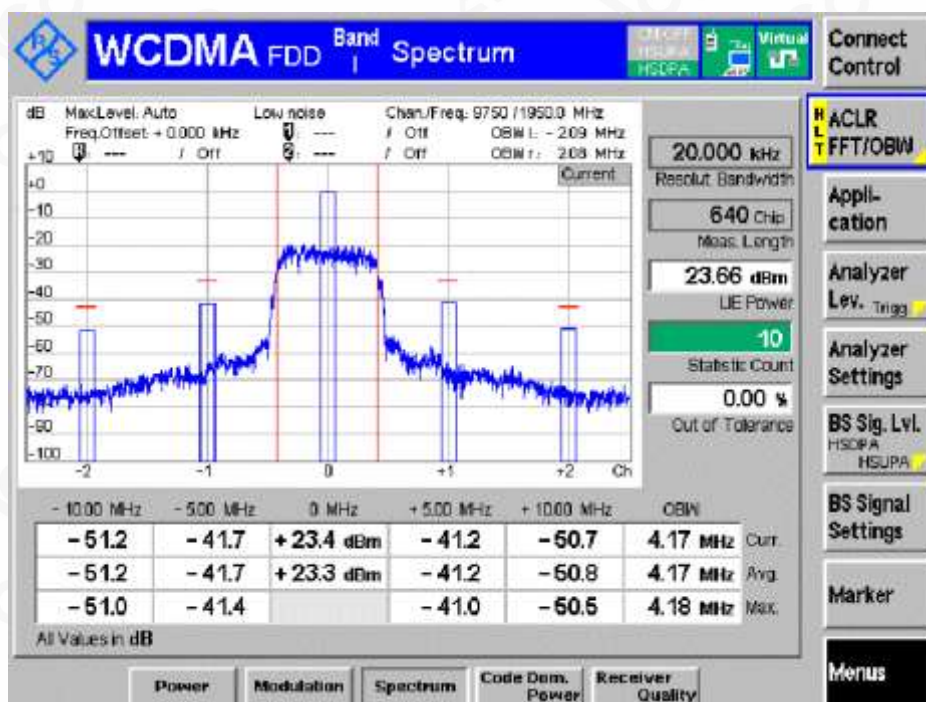
Sub-test 2



Sub-test 3

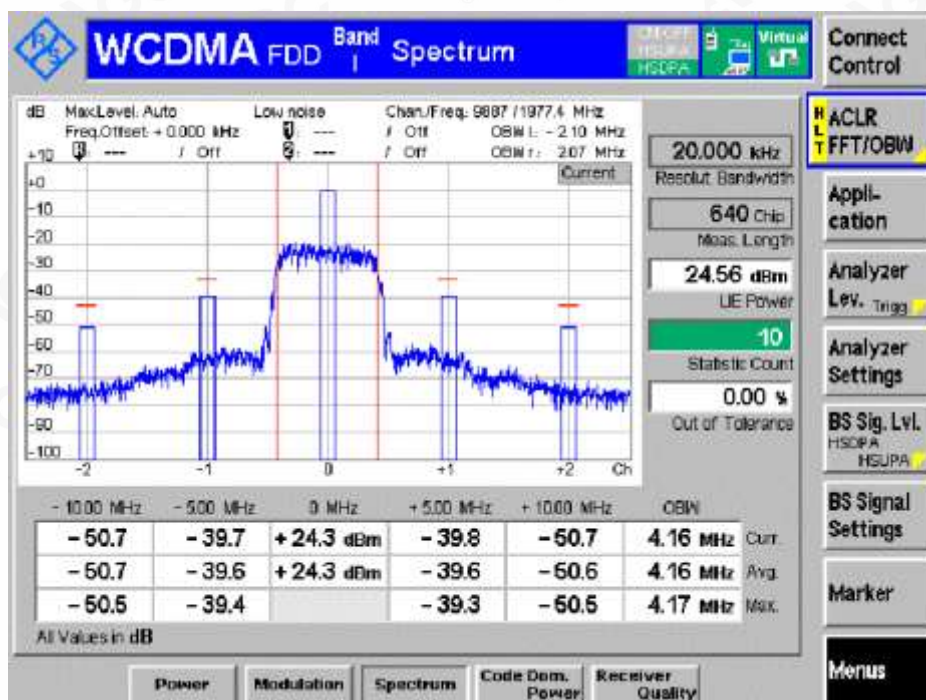


Sub-test 4

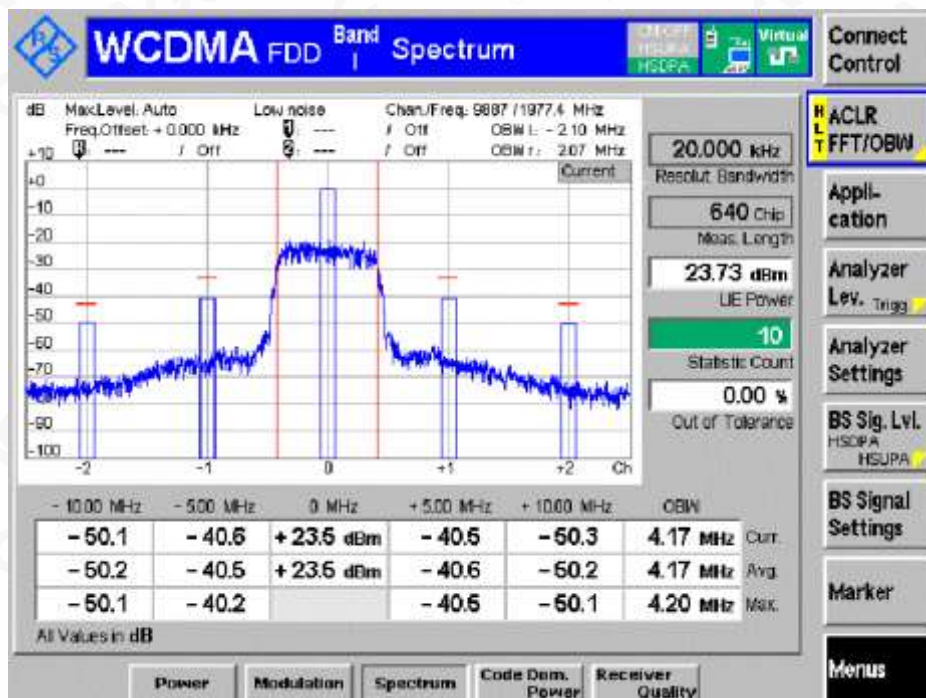


Channel HCH

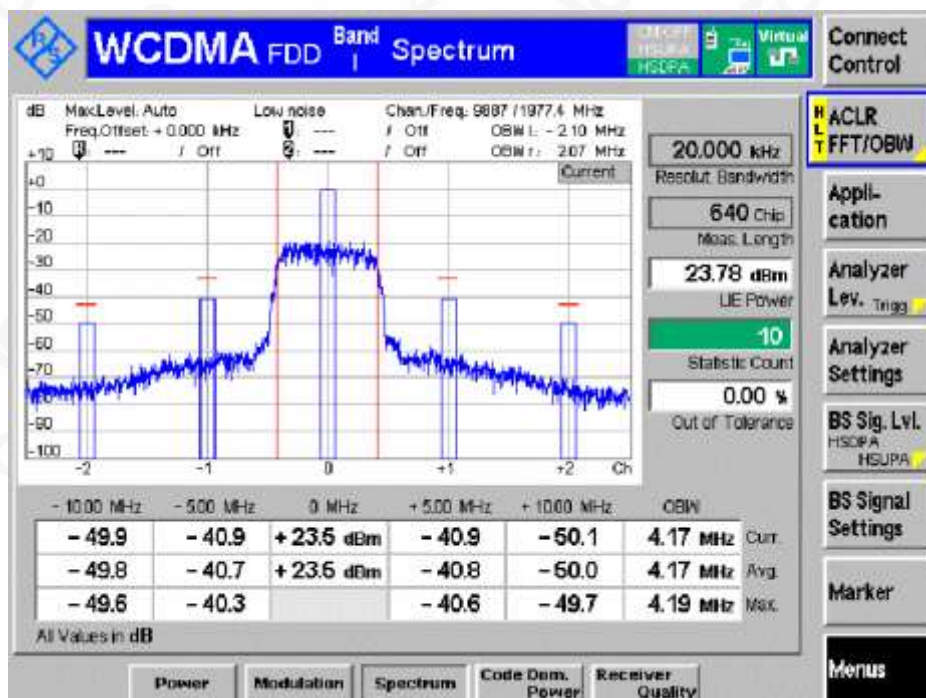
Sub-test 1



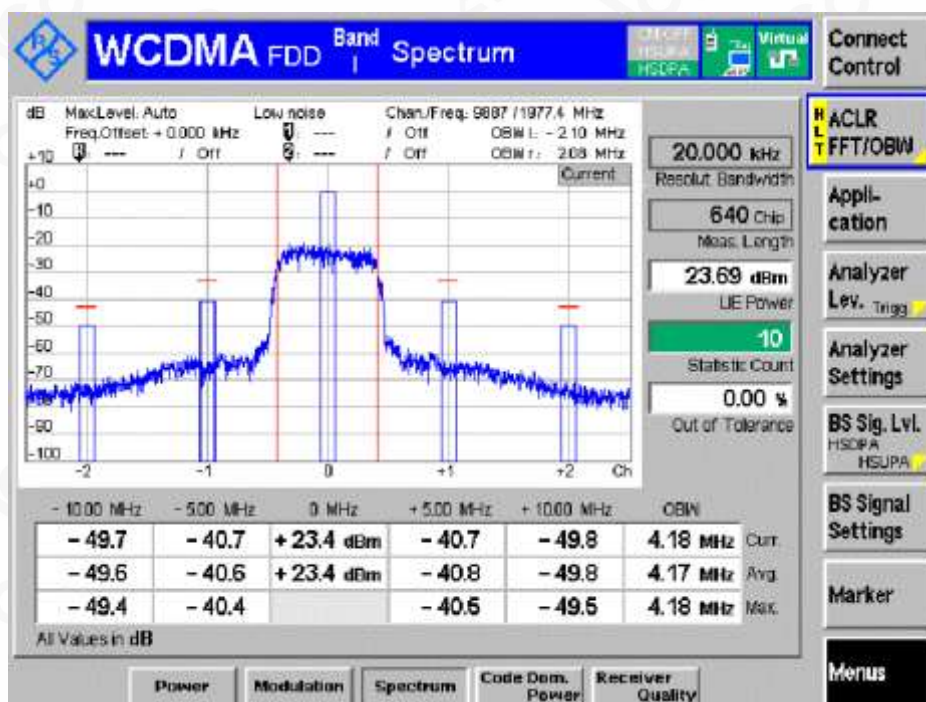
Sub-test 2



Sub-test 3



Sub-test 4

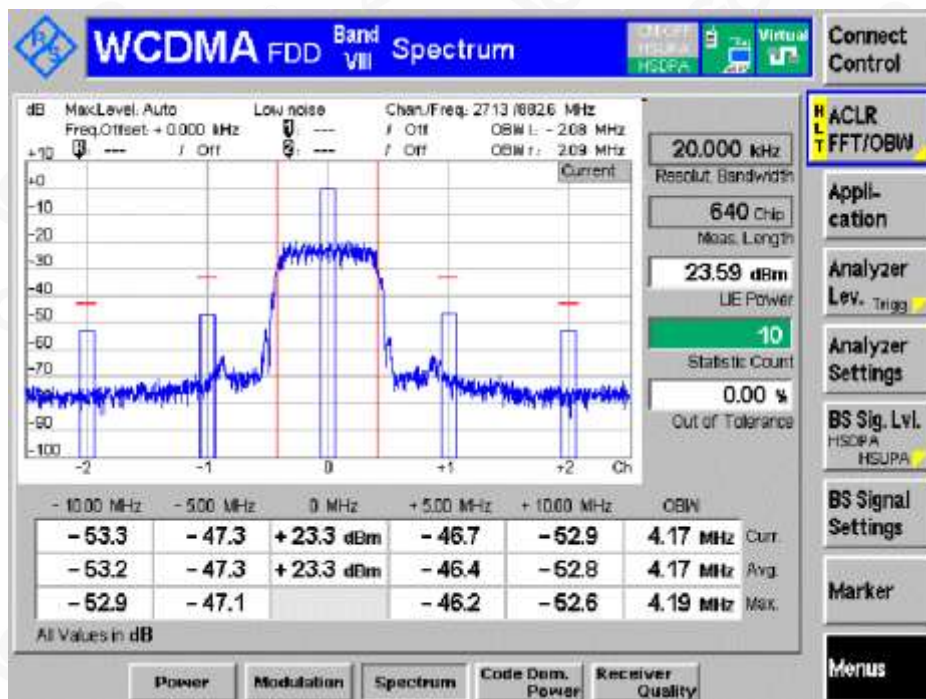


BAND VIII

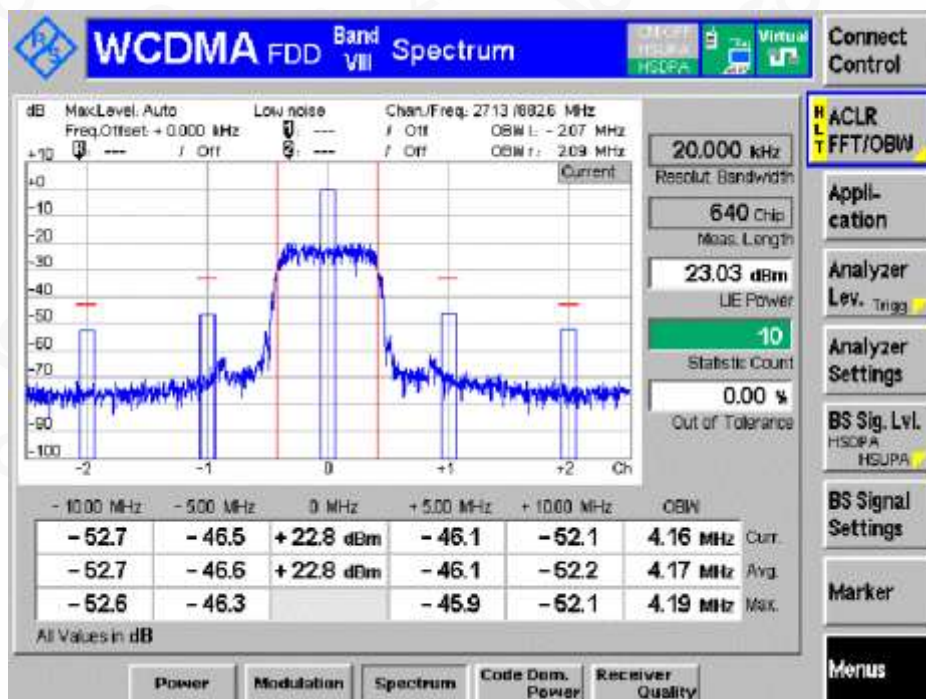
TNPN

Channel LCH

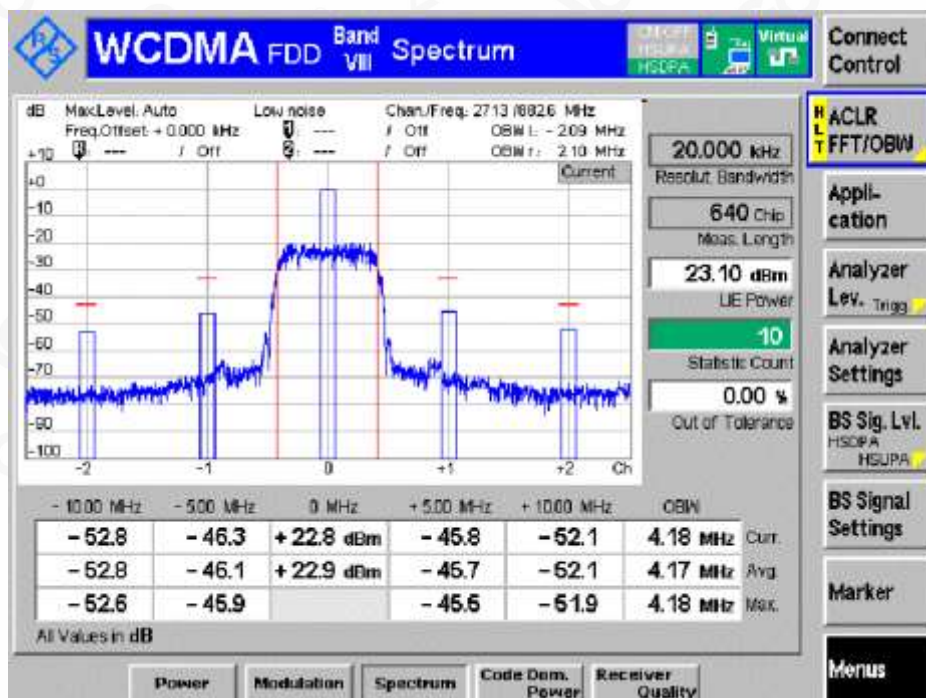
Sub-test 1



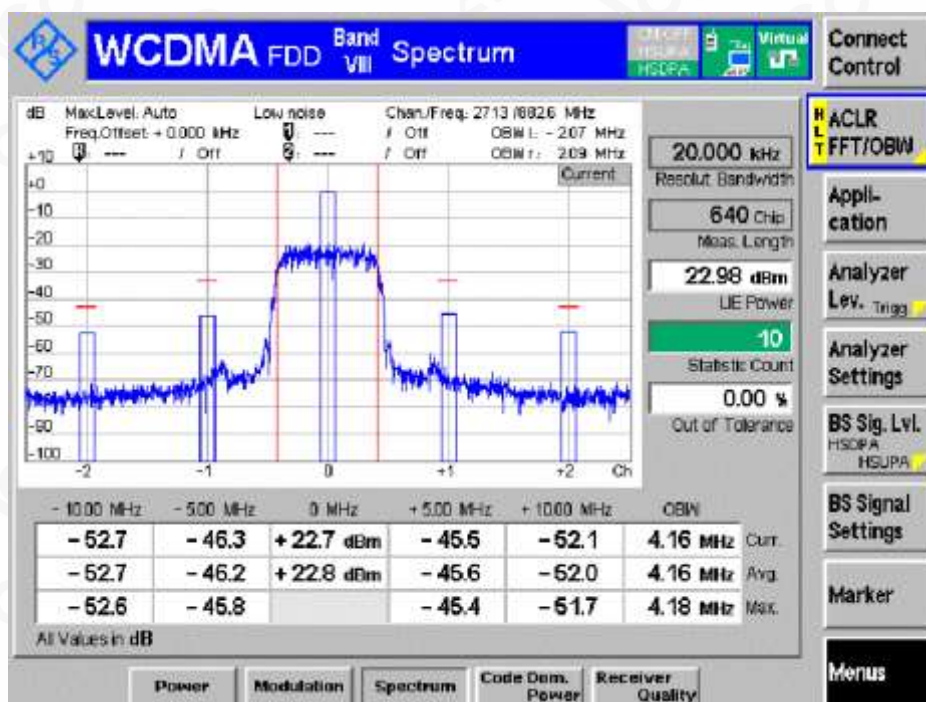
Sub-test 2



Sub-test 3

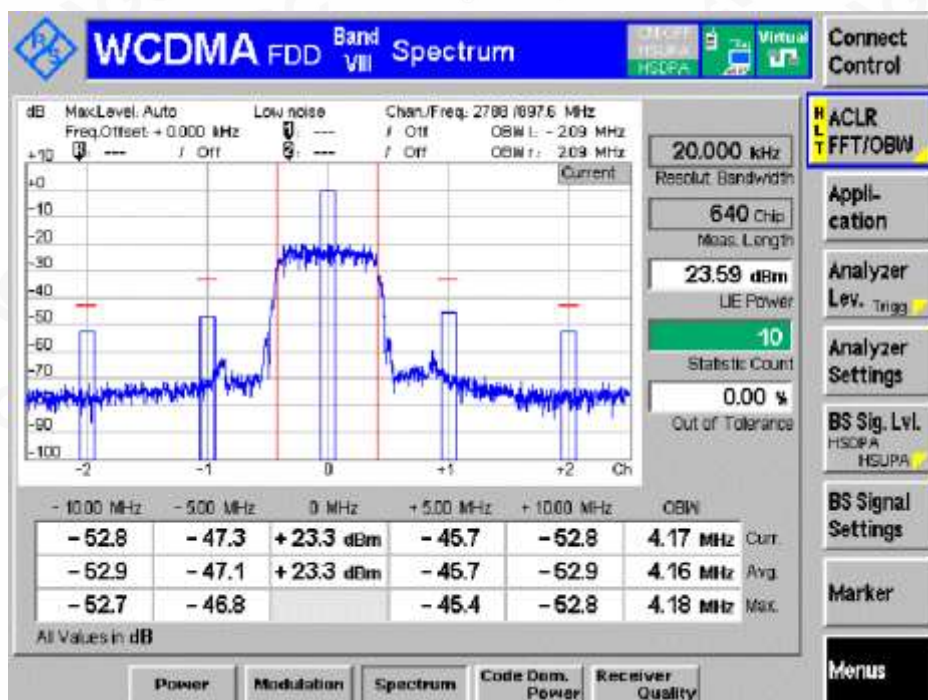


Sub-test 4

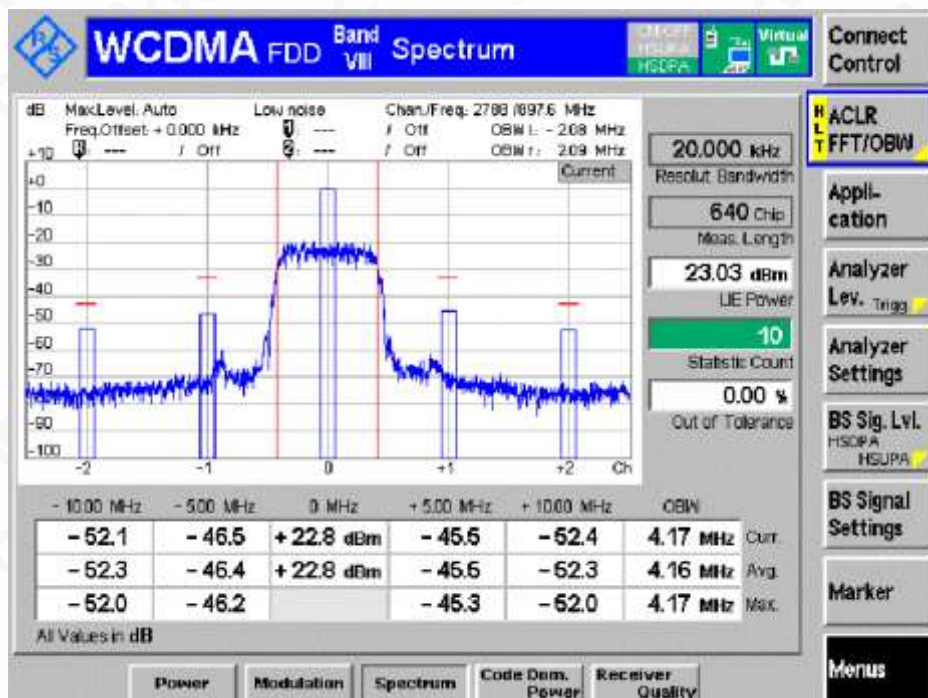


Channel MCH

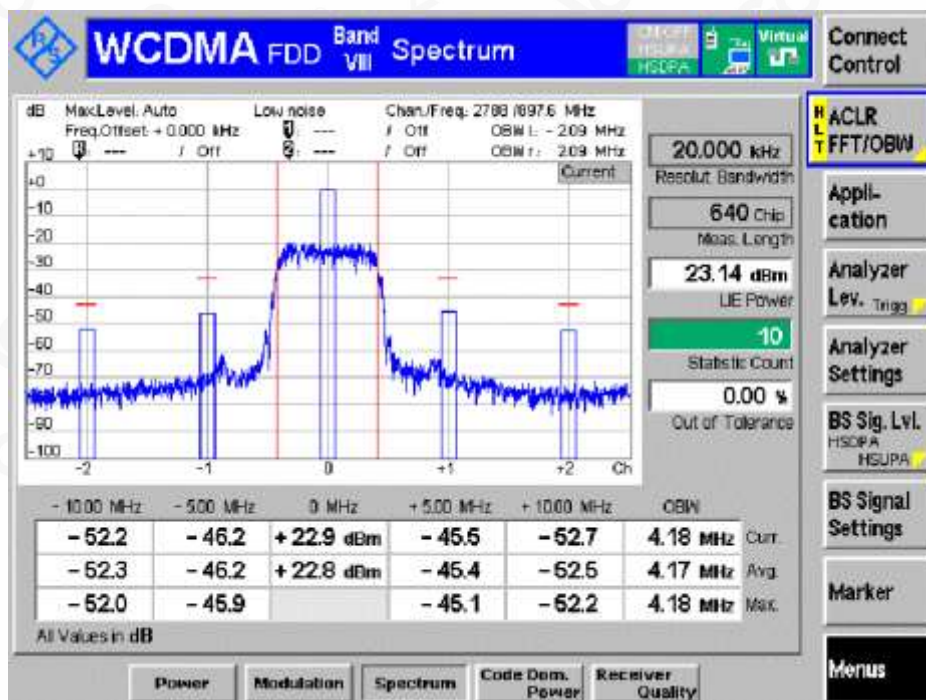
Sub-test 1



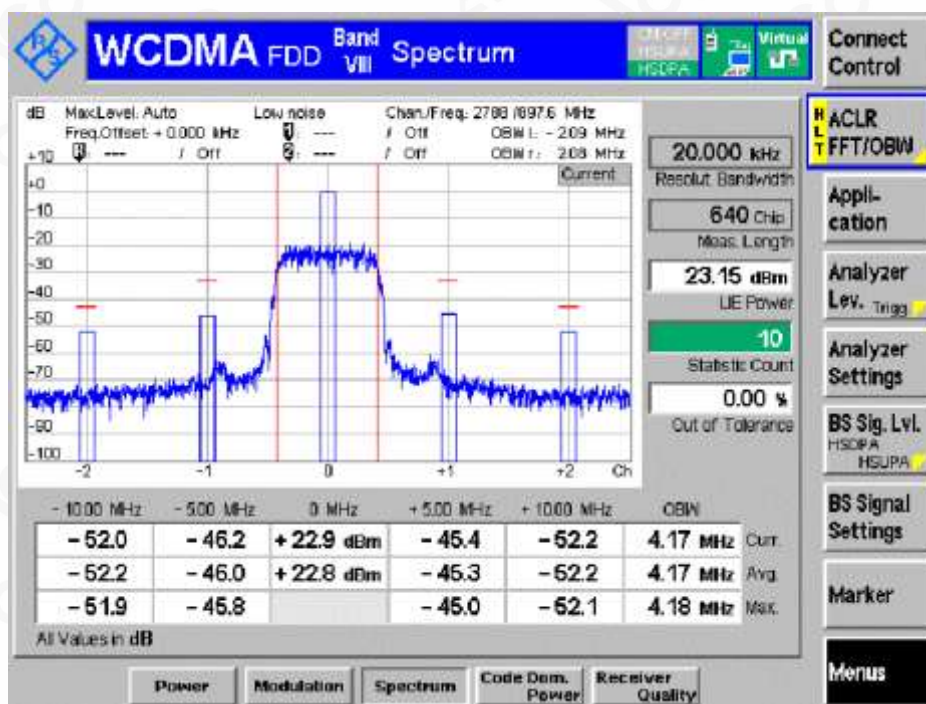
Sub-test 2



Sub-test 3

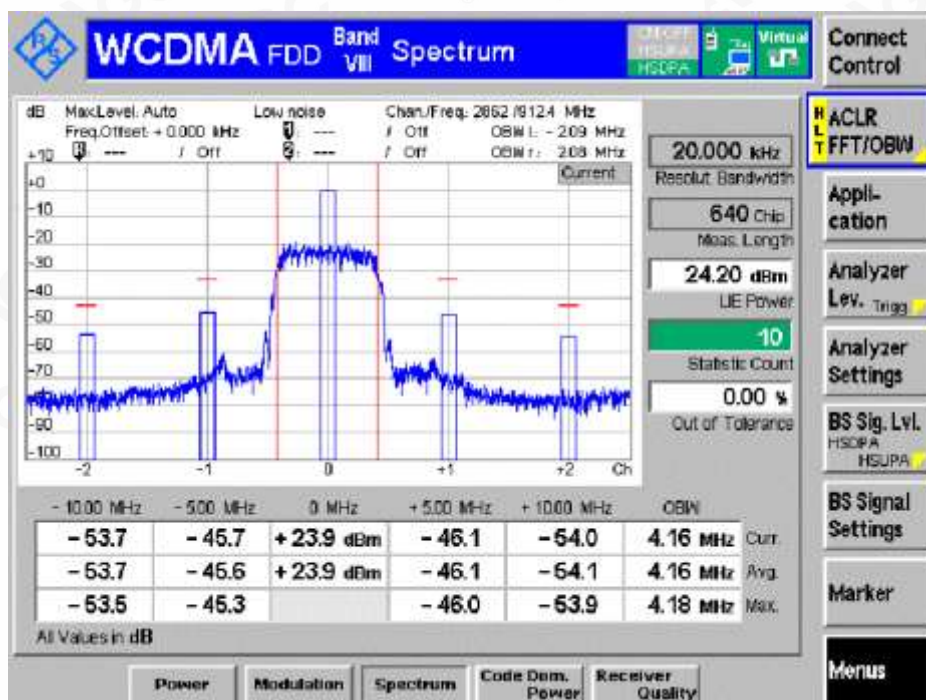


Sub-test 4

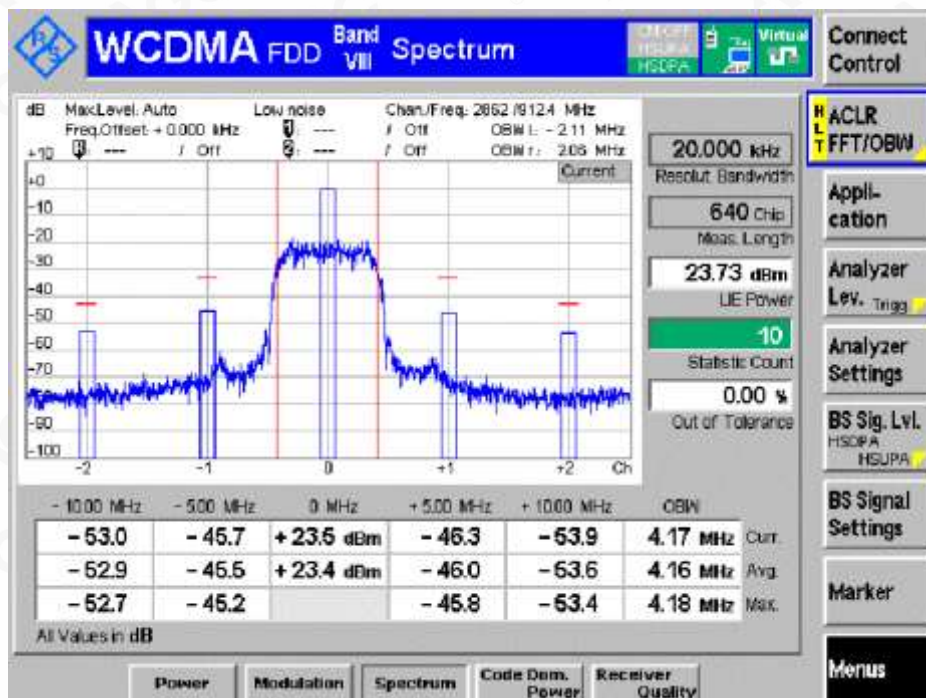


Channel HCH

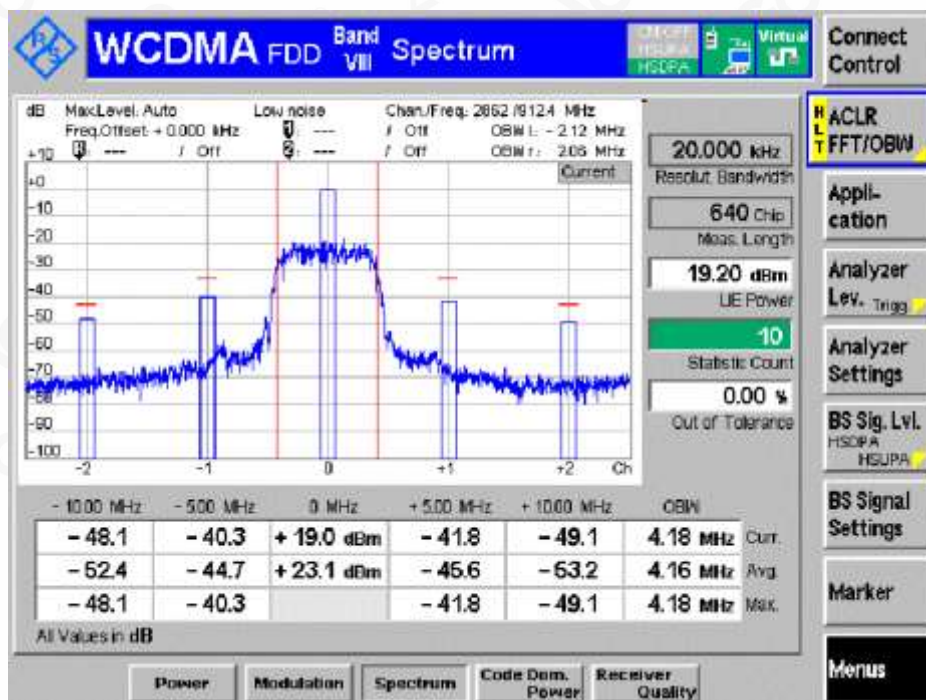
Sub-test 1



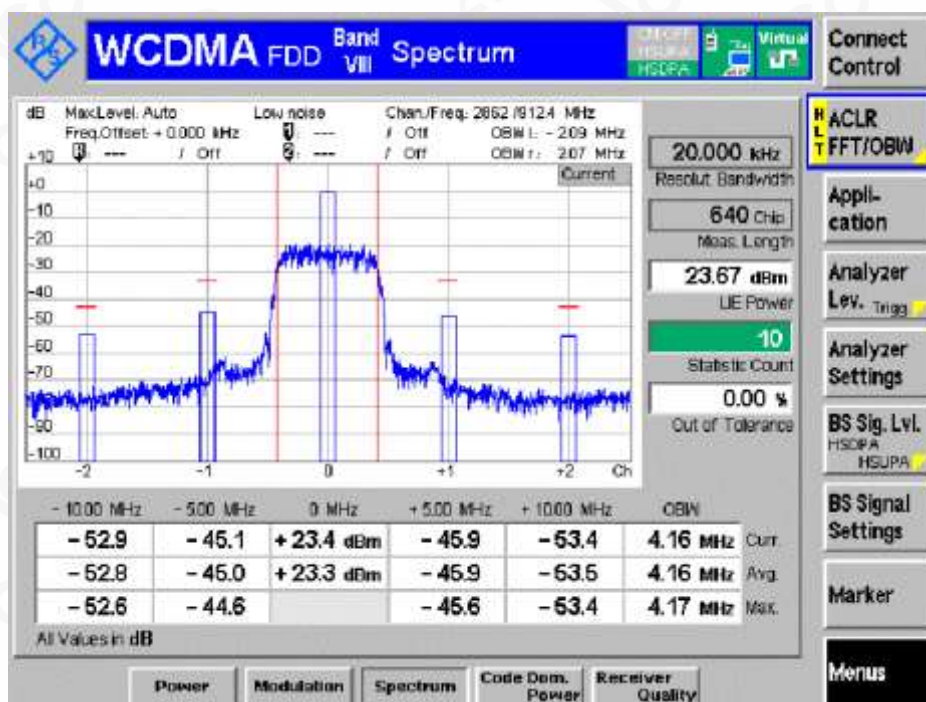
Sub-test 2



Sub-test 3



Sub-test 4



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	22.36	+24(+1.7/-6.7)	Pass
			2	22.46	+22(+3.7/-5.2)	Pass
			3	23.29	+23(+2.7/-5.2)	Pass
			4	21.85	+22(+3.7/-5.2)	Pass
			5	21.48	+24(+1.7/-3.7)	Pass
		MCH	1	22.33	+24(+1.7/-6.7)	Pass
			2	22.60	+22(+3.7/-5.2)	Pass
			3	23.33	+23(+2.7/-5.2)	Pass
			4	21.76	+22(+3.7/-5.2)	Pass
			5	21.48	+24(+1.7/-3.7)	Pass
		HCH	1	22.28	+24(+1.7/-6.7)	Pass
			2	22.54	+22(+3.7/-5.2)	Pass
			3	23.34	+23(+2.7/-5.2)	Pass
			4	21.84	+22(+3.7/-5.2)	Pass
			5	21.47	+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	21.42	+24(+1.7/-6.7)	Pass
			2	21.44	+22(+3.7/-5.2)	Pass
			3	22.49	+23(+2.7/-5.2)	Pass
			4	20.87	+22(+3.7/-5.2)	Pass
			5	20.47	+24(+1.7/-3.7)	Pass
		MCH	1	21.40	+24(+1.7/-6.7)	Pass
			2	21.49	+22(+3.7/-5.2)	Pass
			3	22.41	+23(+2.7/-5.2)	Pass
			4	20.85	+22(+3.7/-5.2)	Pass
			5	20.47	+24(+1.7/-3.7)	Pass
		HCH	1	21.99	+24(+1.7/-6.7)	Pass
			2	22.06	+22(+3.7/-5.2)	Pass
			3	23.03	+23(+2.7/-5.2)	Pass
			4	21.41	+22(+3.7/-5.2)	Pass
			5	20.92	+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

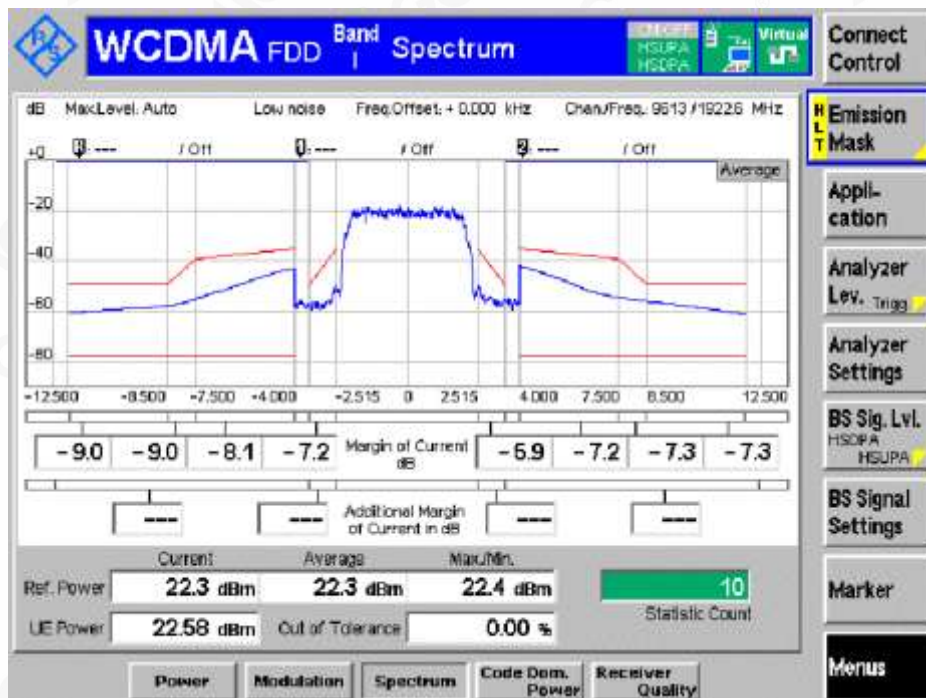
Operating Band	Test Conditions	Sub-test	Test Channel		
			LCH	MCH	HCH
Band VIII	TNVN	1	PASS	PASS	PASS
		2	PASS	PASS	PASS
		3	PASS	PASS	PASS
		4	PASS	PASS	PASS
		5	PASS	PASS	PASS



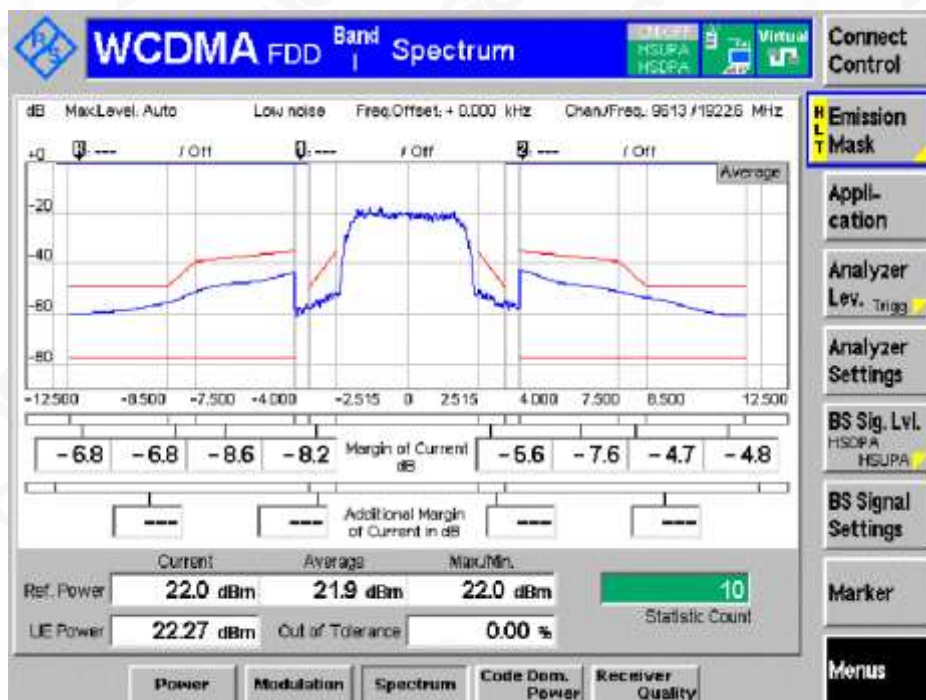
BAND 1

Channel LCH

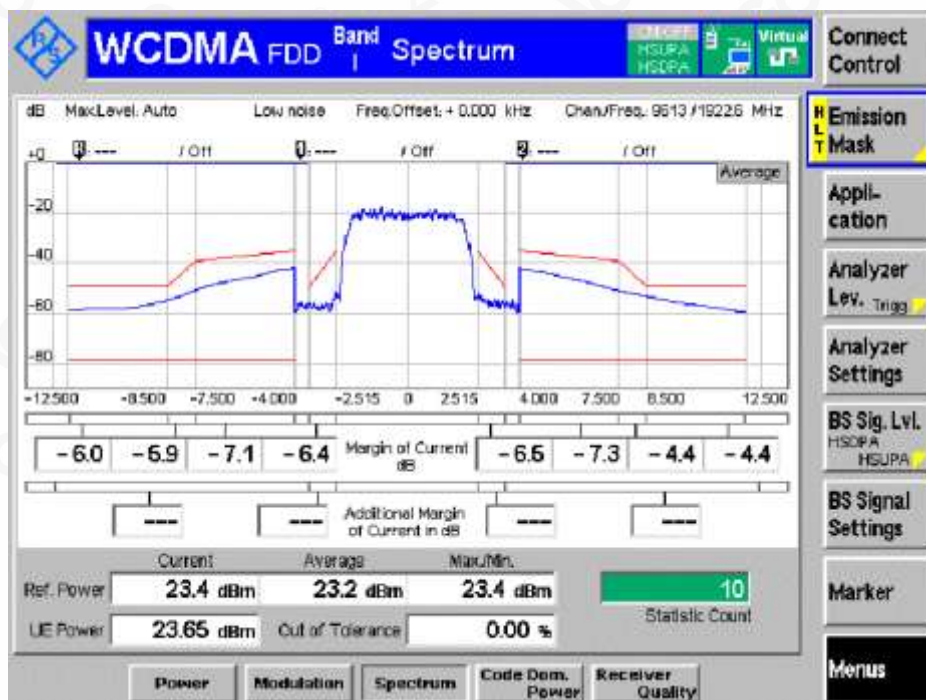
Sub-test 1



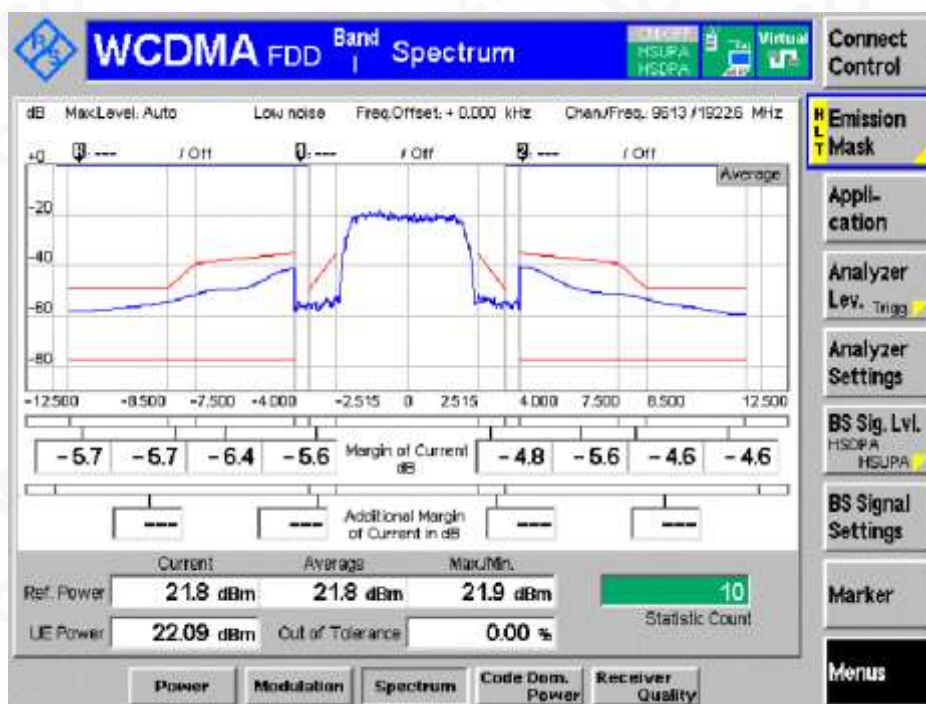
Sub-test 2



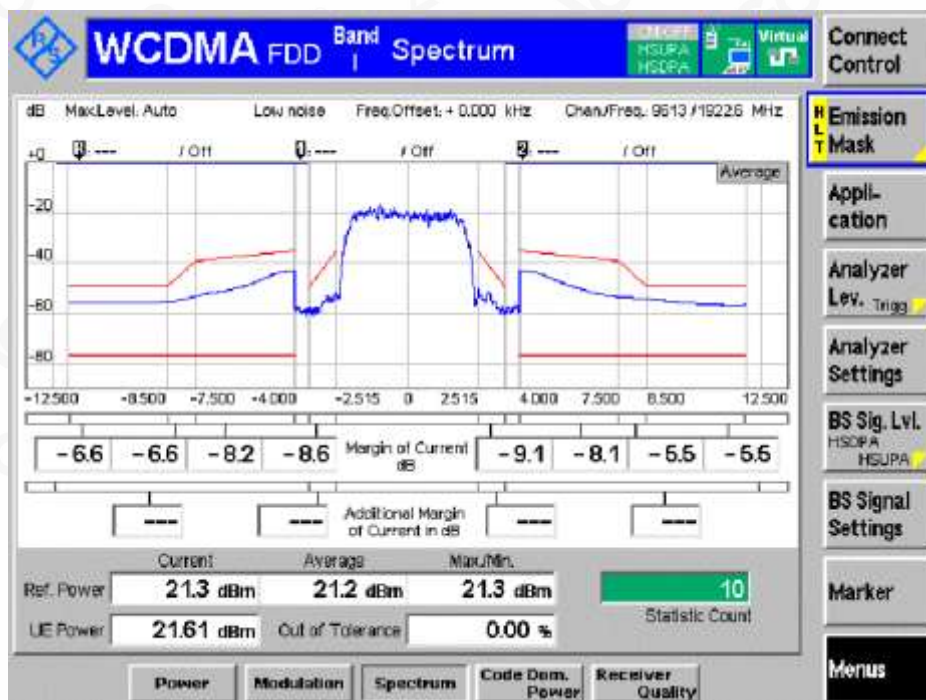
Sub-test 3



Sub-test 4

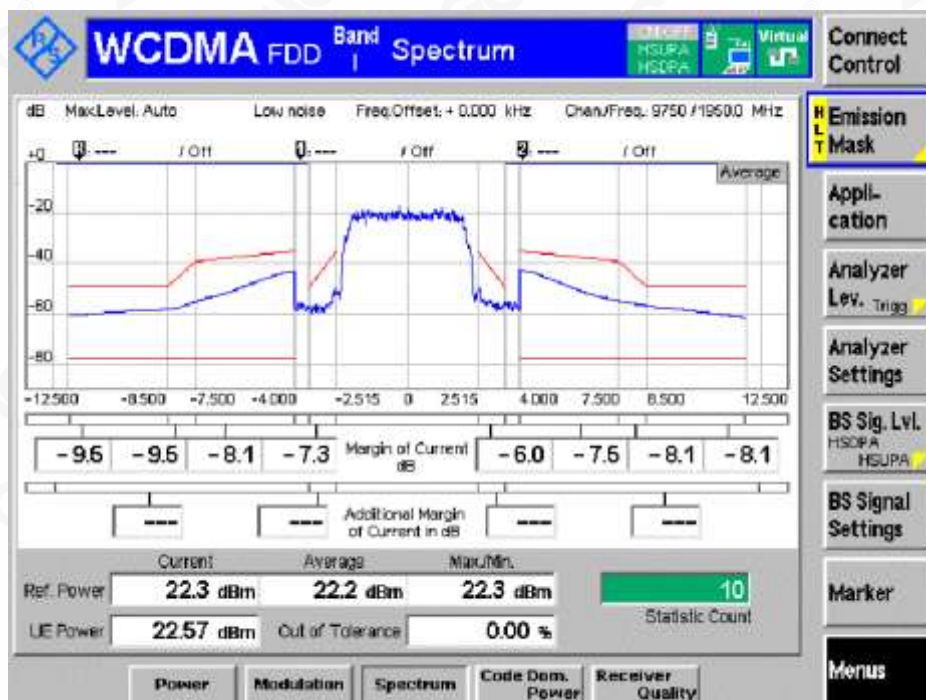


Sub-test 5

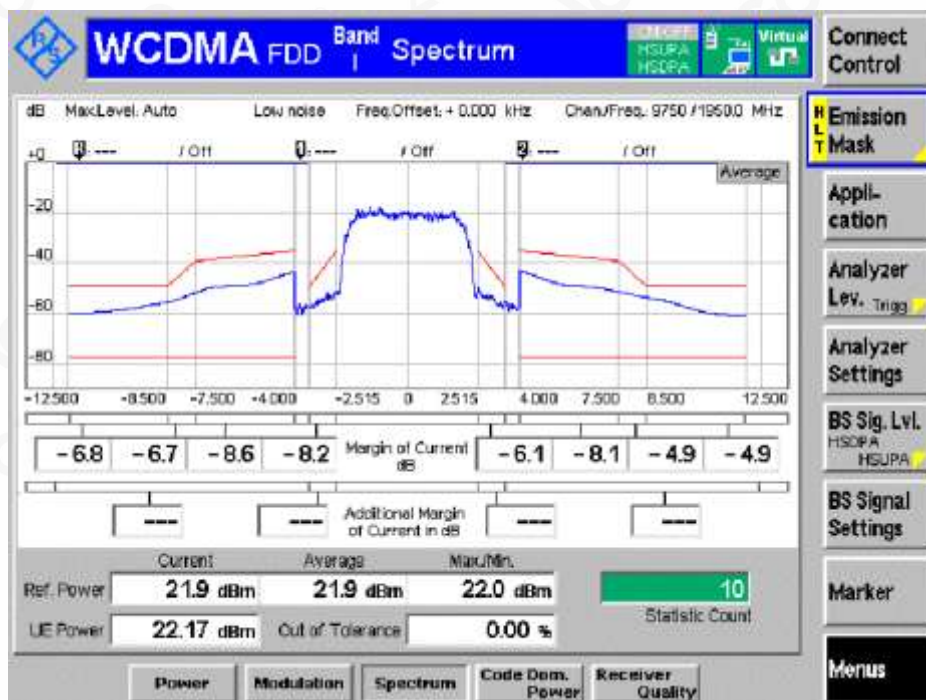


Channel MCH

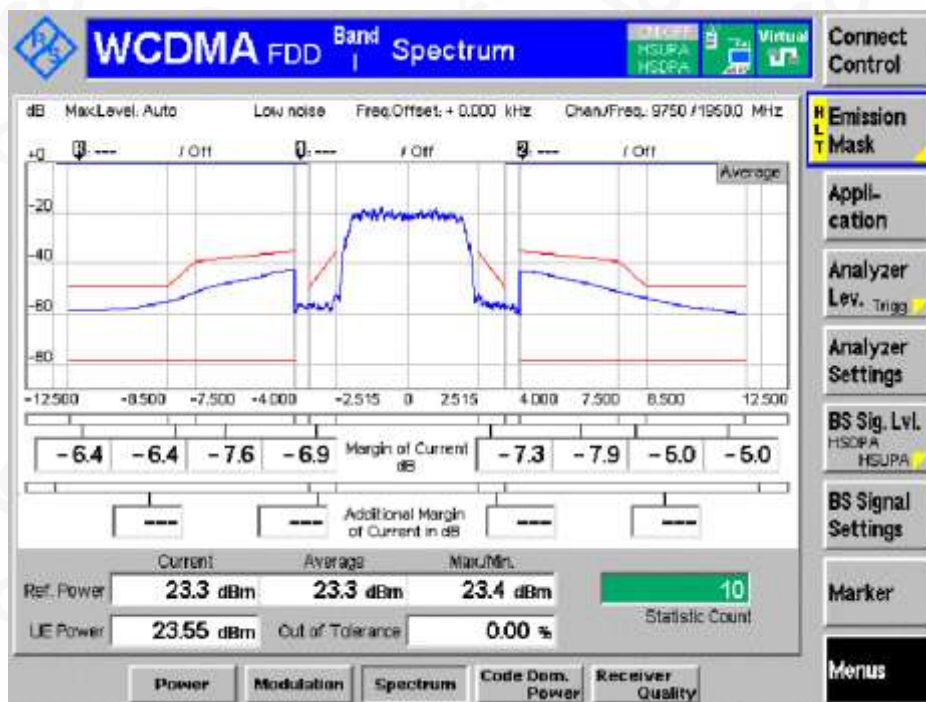
Sub-test 1



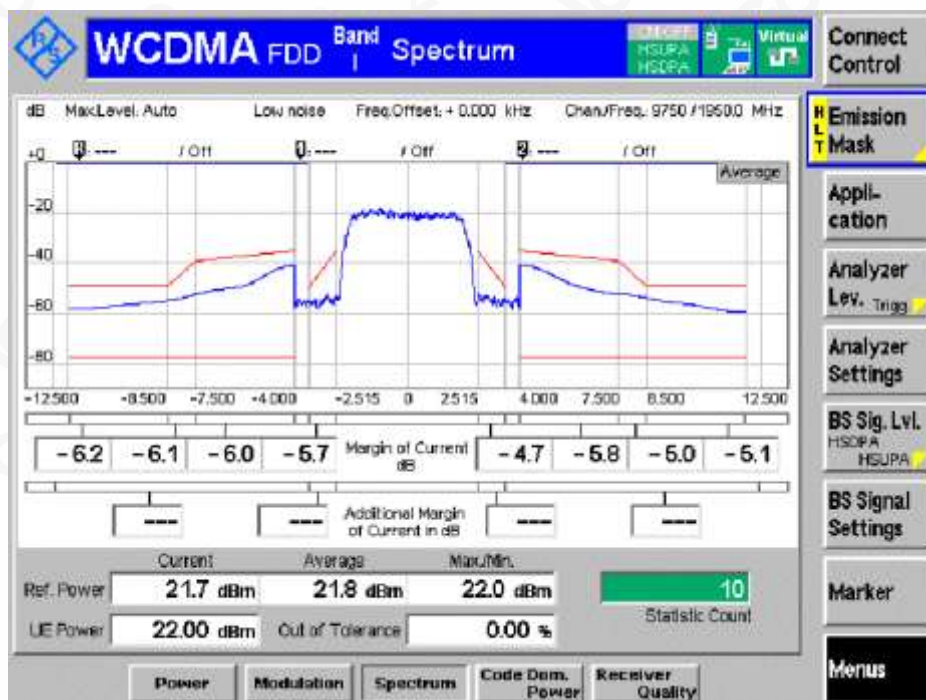
Sub-test 2



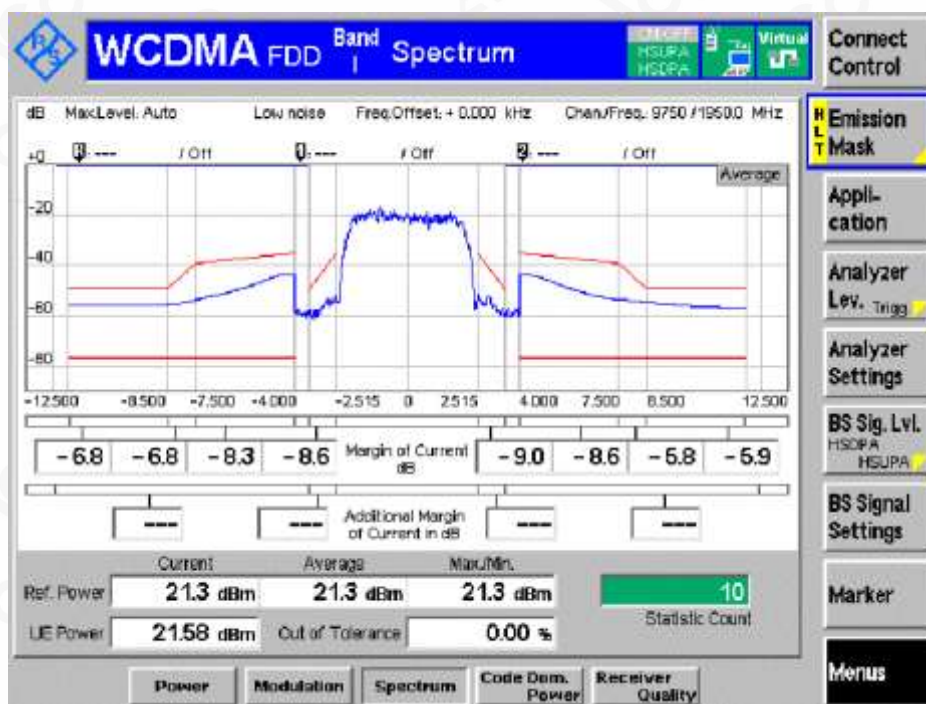
Sub-test 3



Sub-test 4

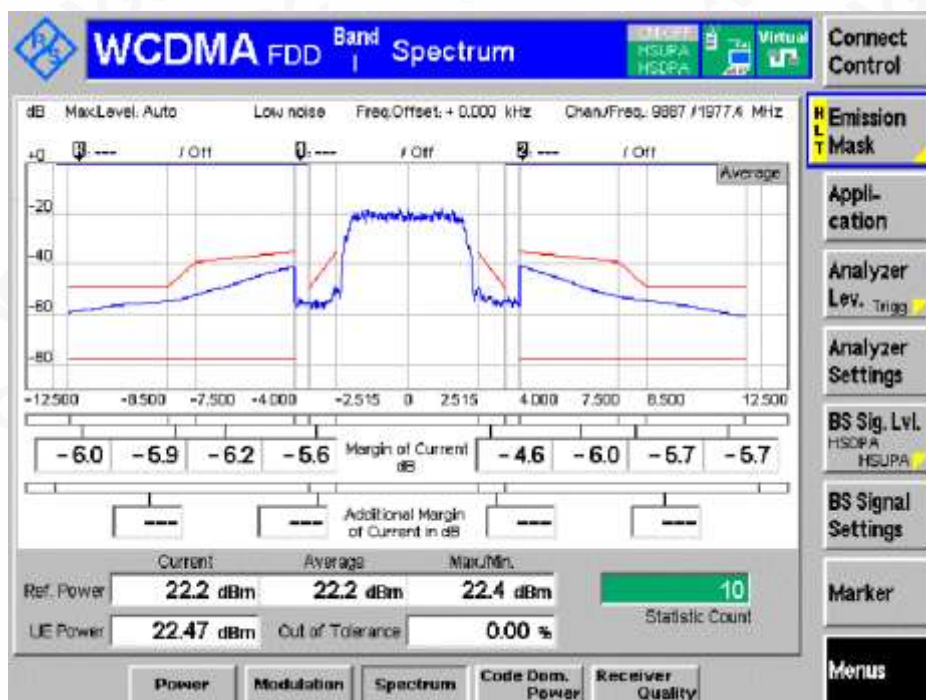


Sub – test 5

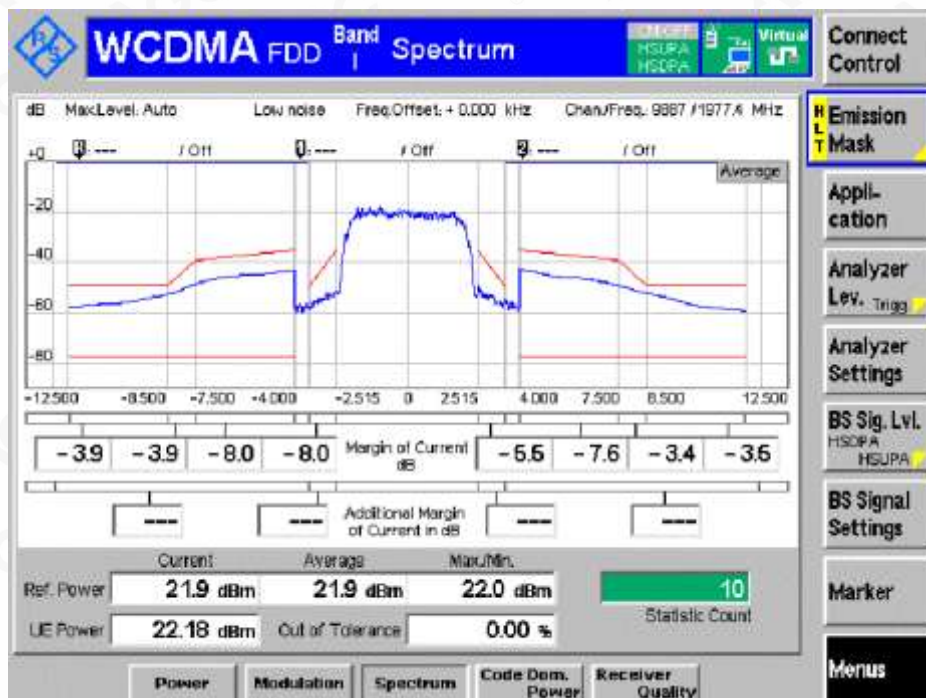


Channel HCH

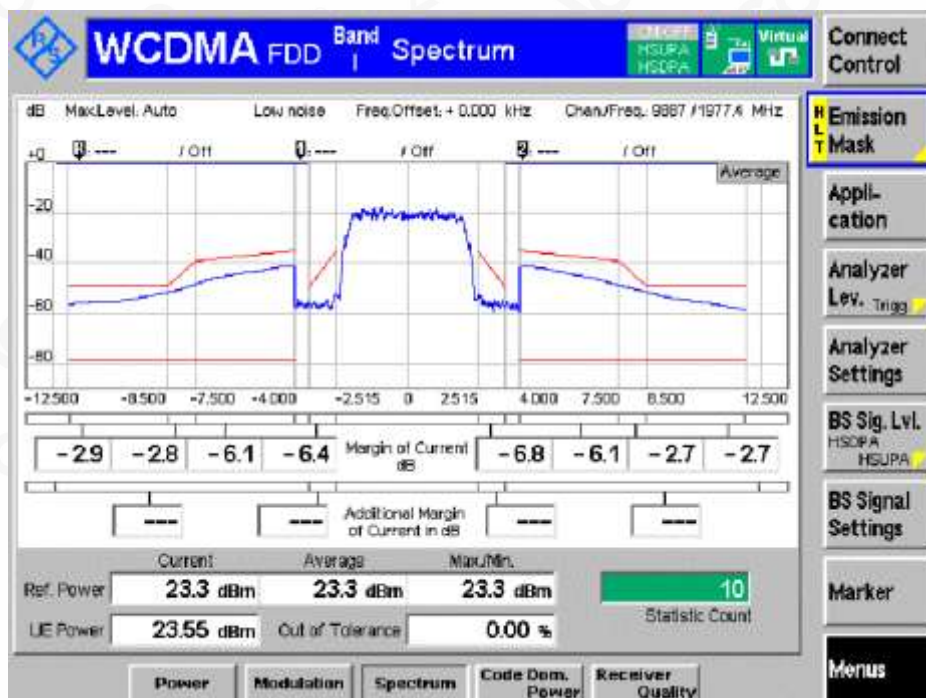
Sub-test 1



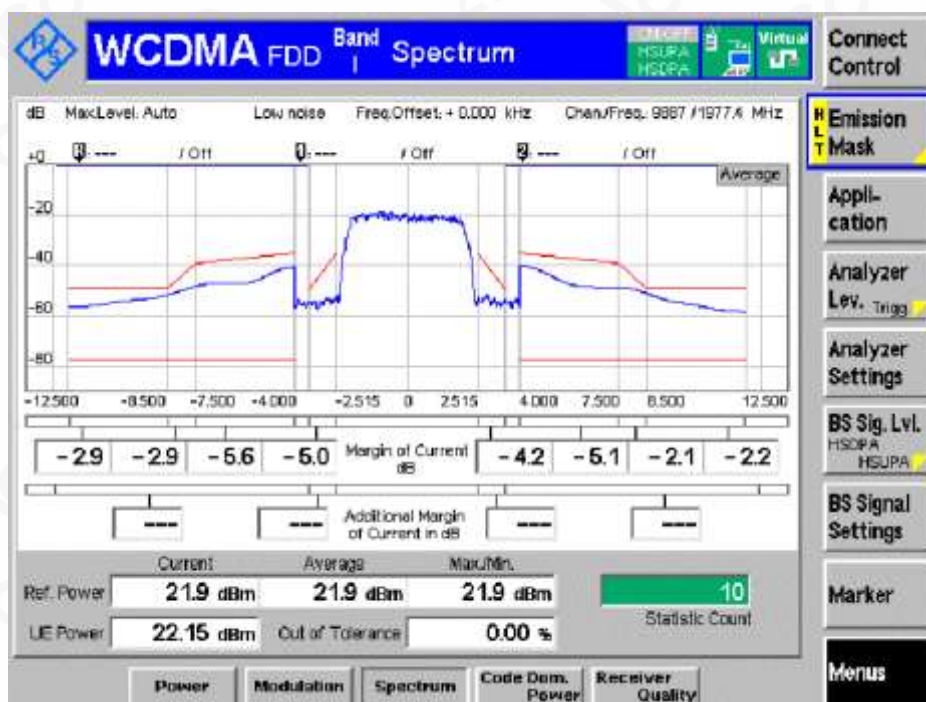
Sub-test 2



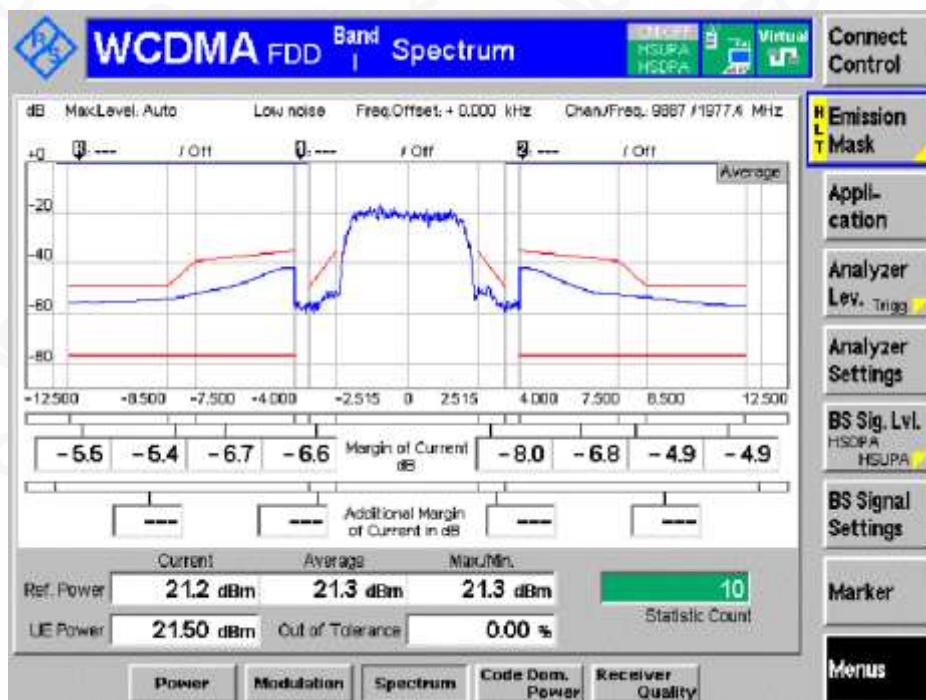
Sub-test 3



Sub-test 4



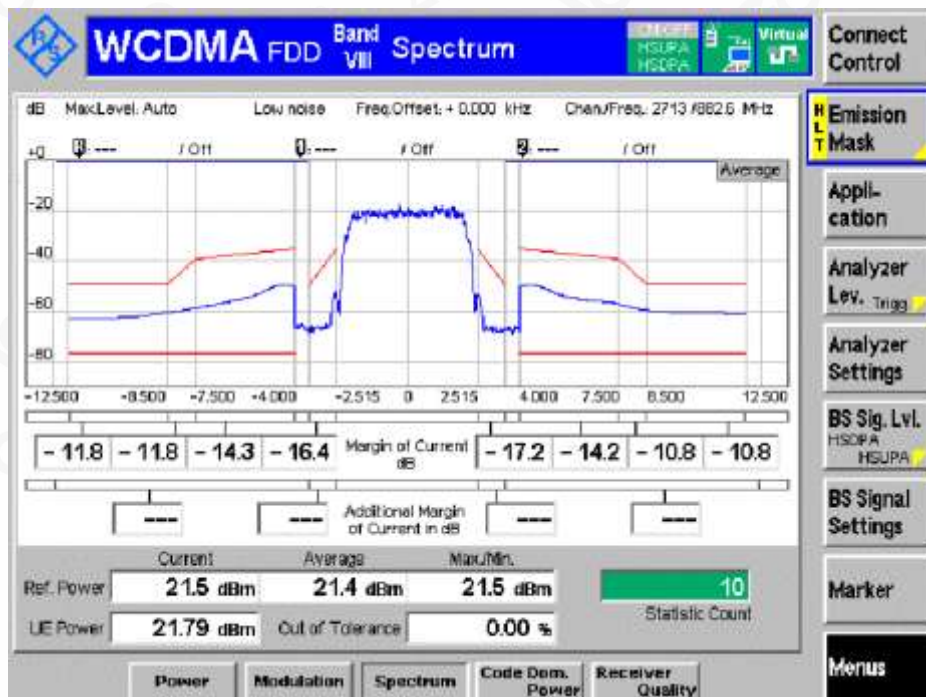
Sub-test 5



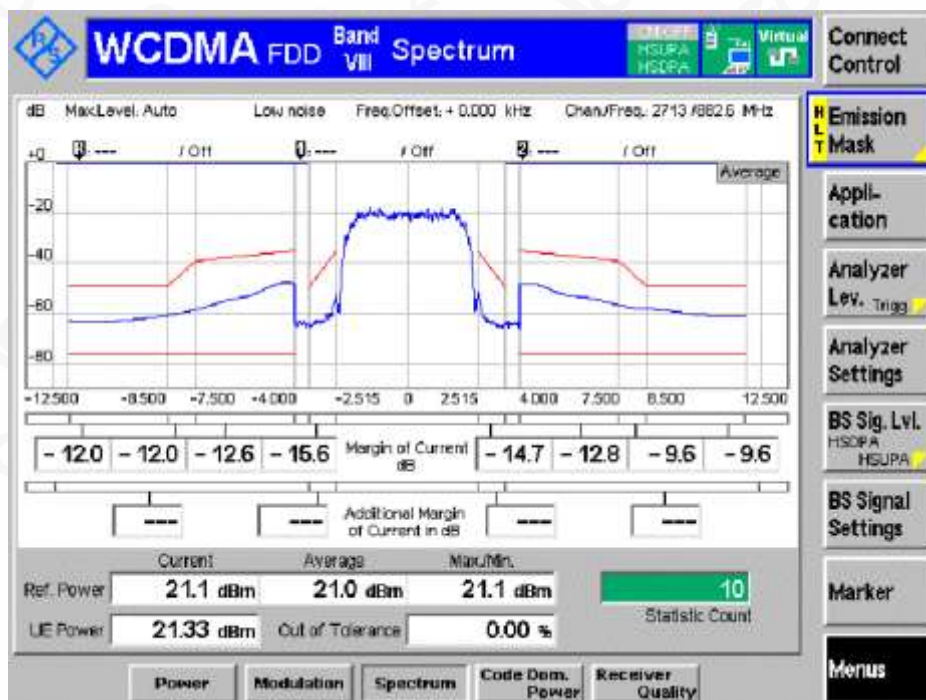
BAND VIII

Channel LCH

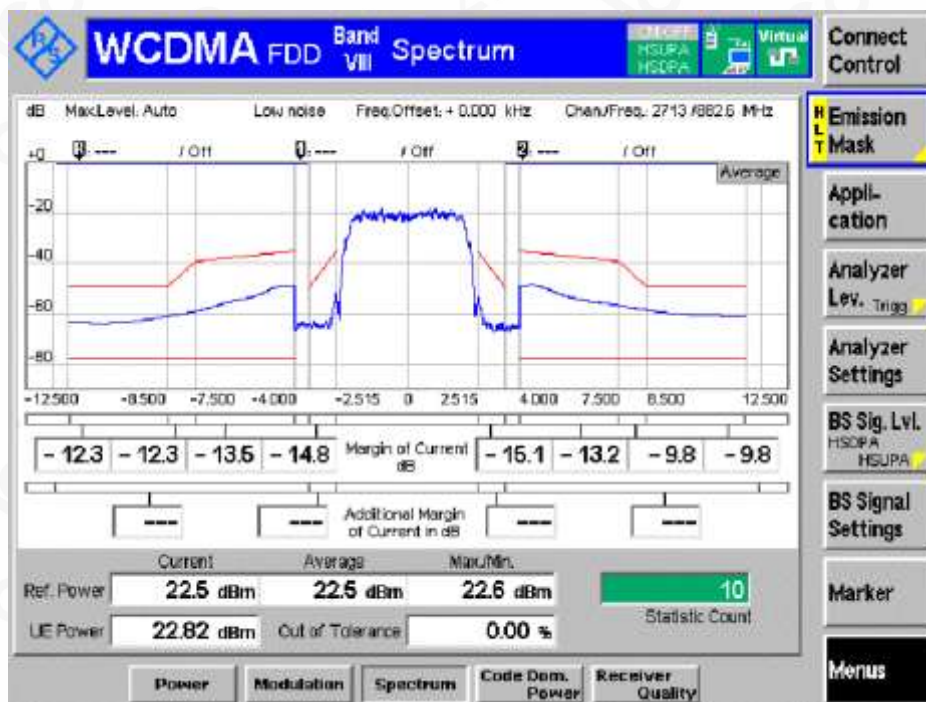
Sub-test 1



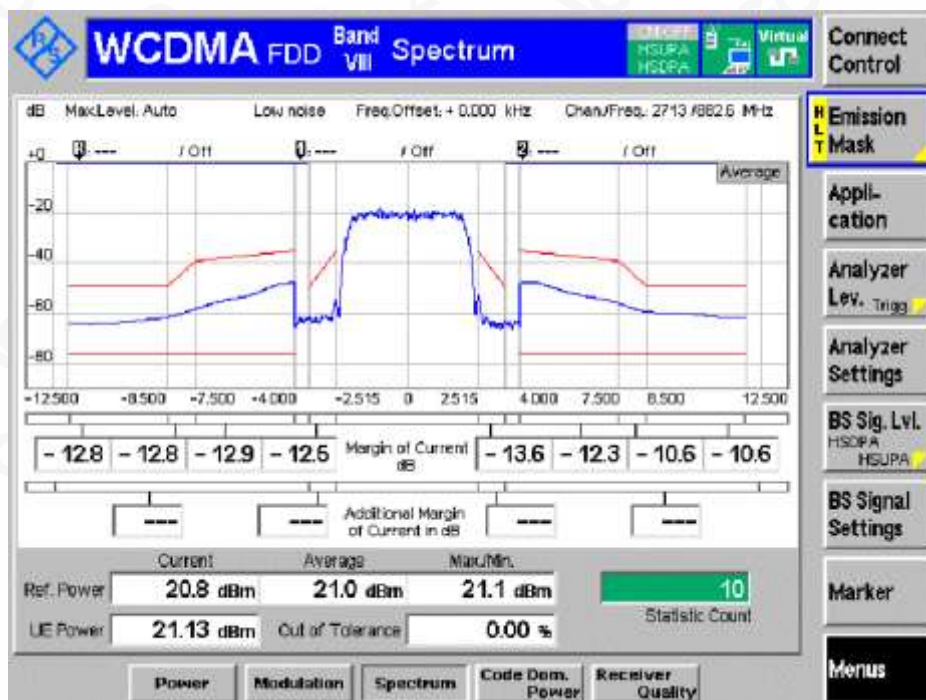
Sub-test 2



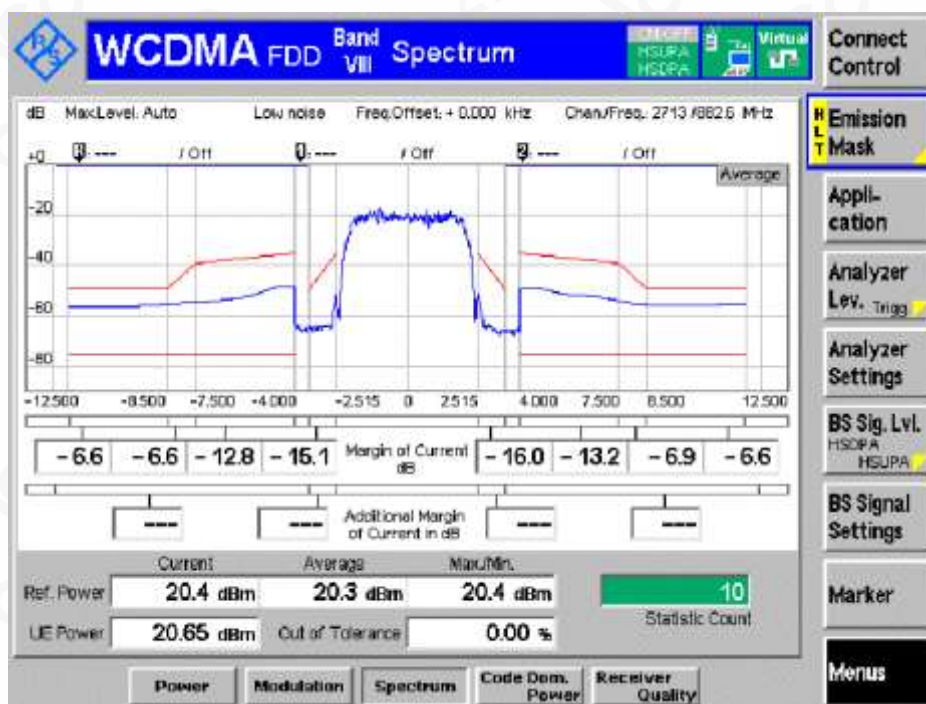
Sub-test 3



Sub-test 4

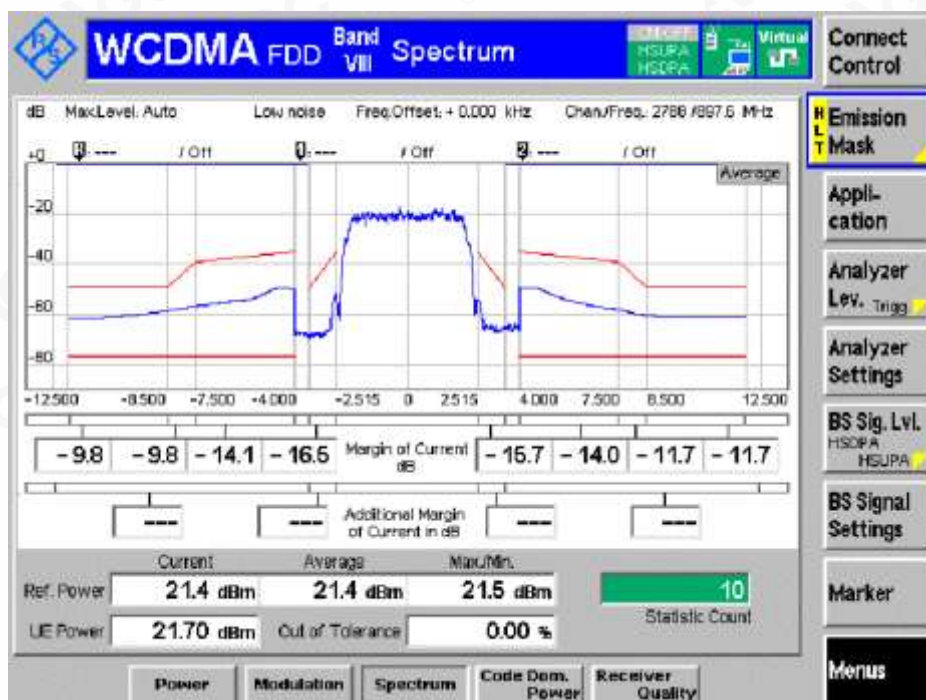


Sub-test 5

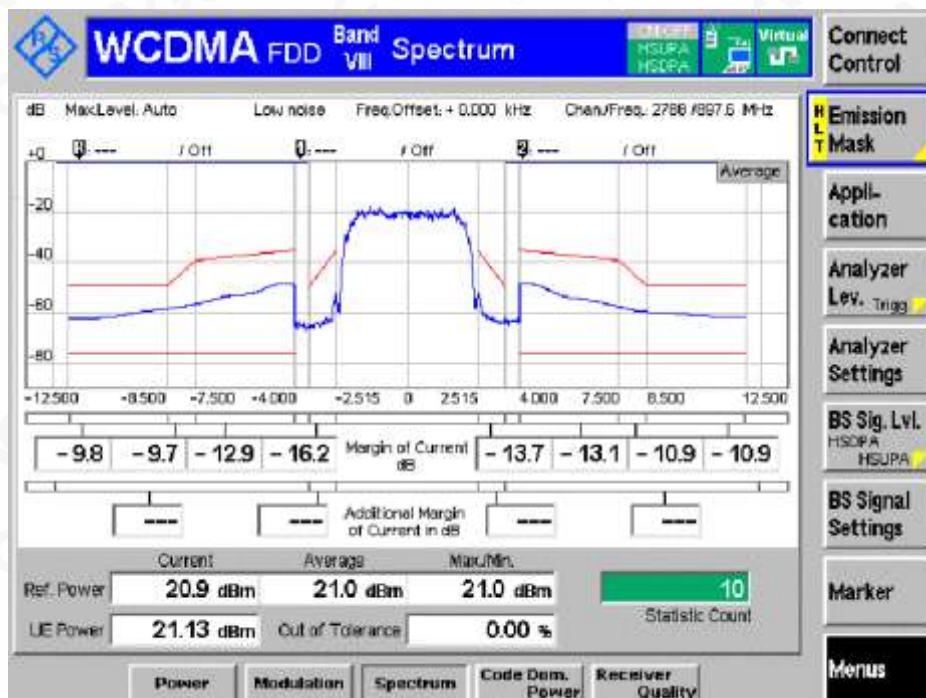


Channel MCH

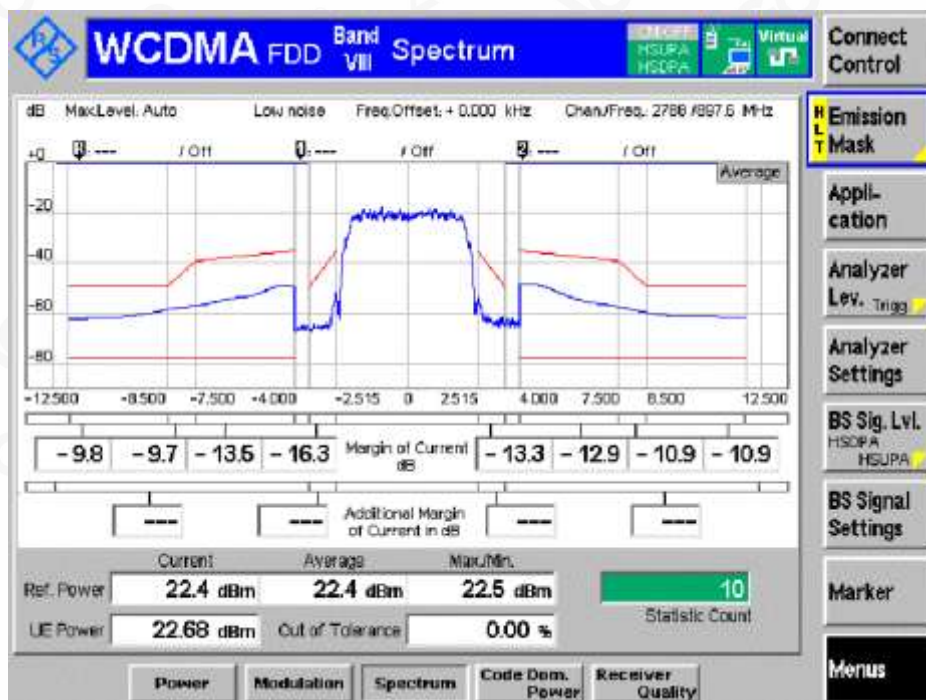
Sub-test 1



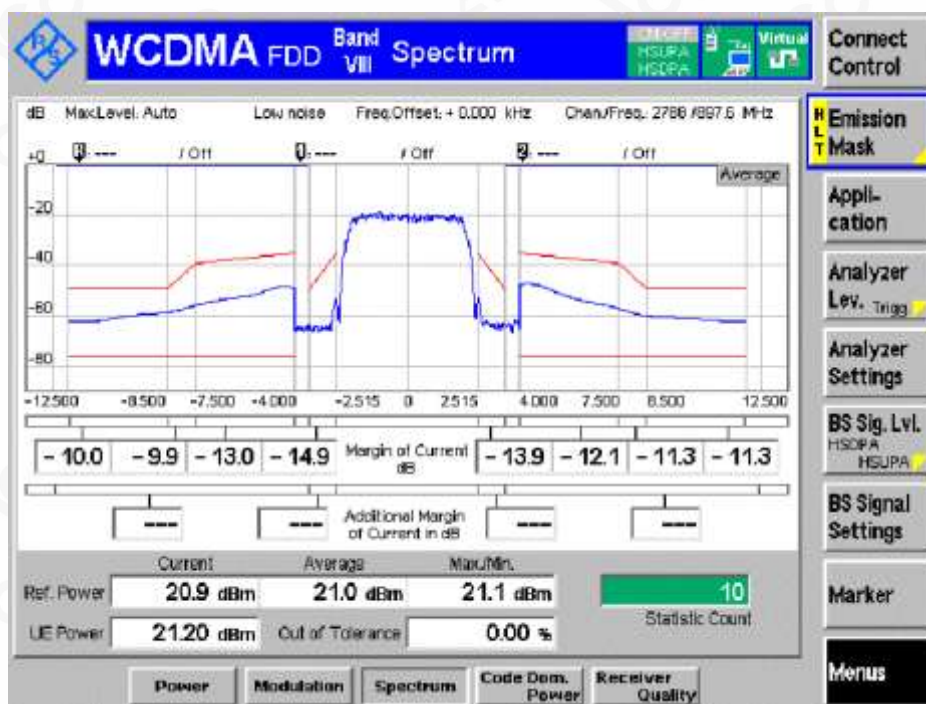
Sub-test 2



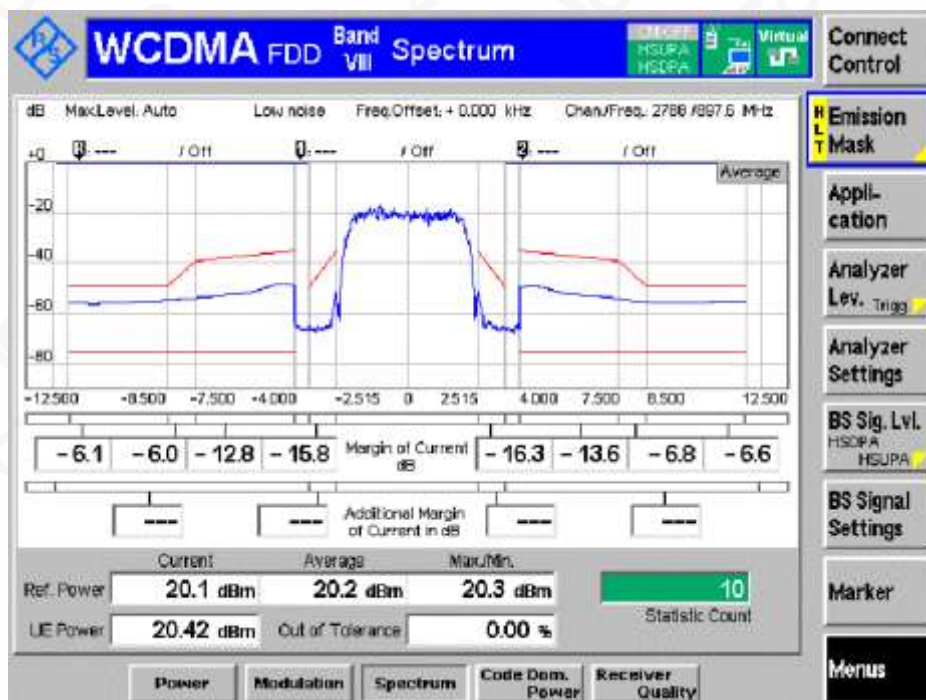
Sub-test 3



Sub-test 4

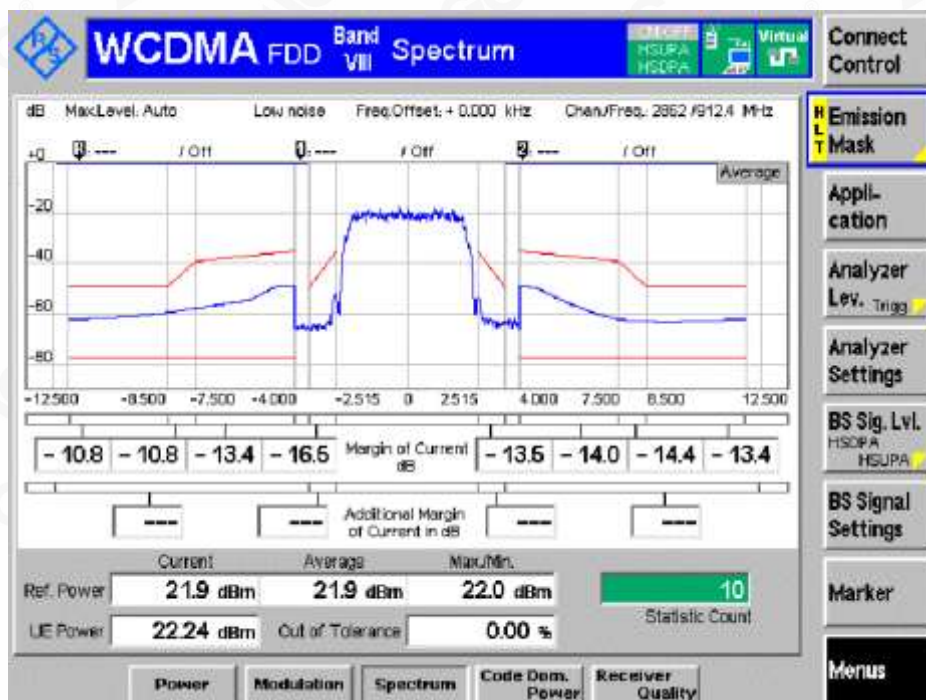


Sub-test 5

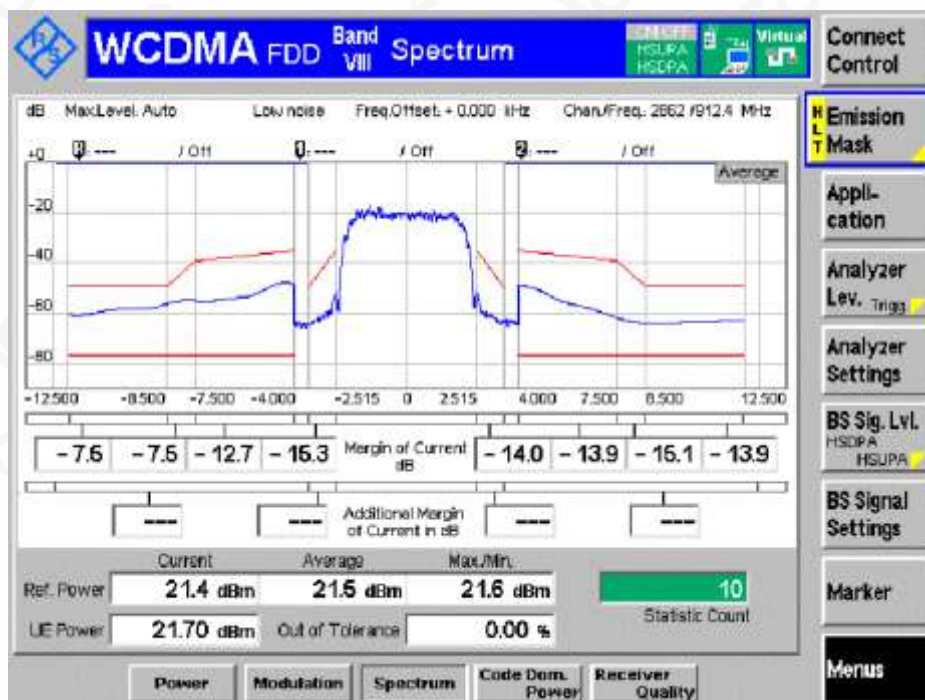


Channel HCH

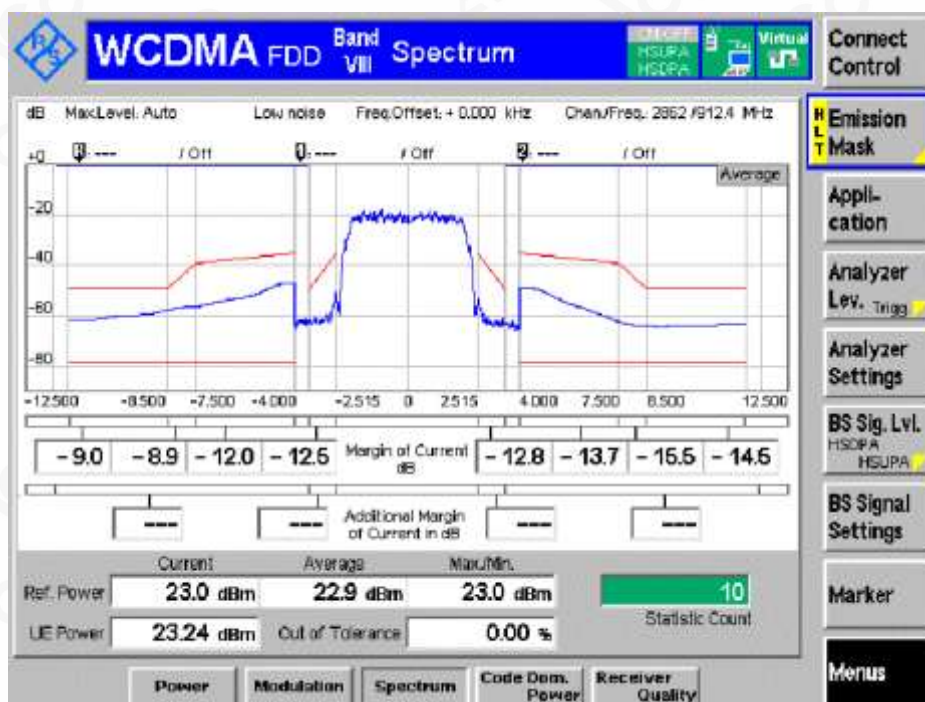
Sub-test 1



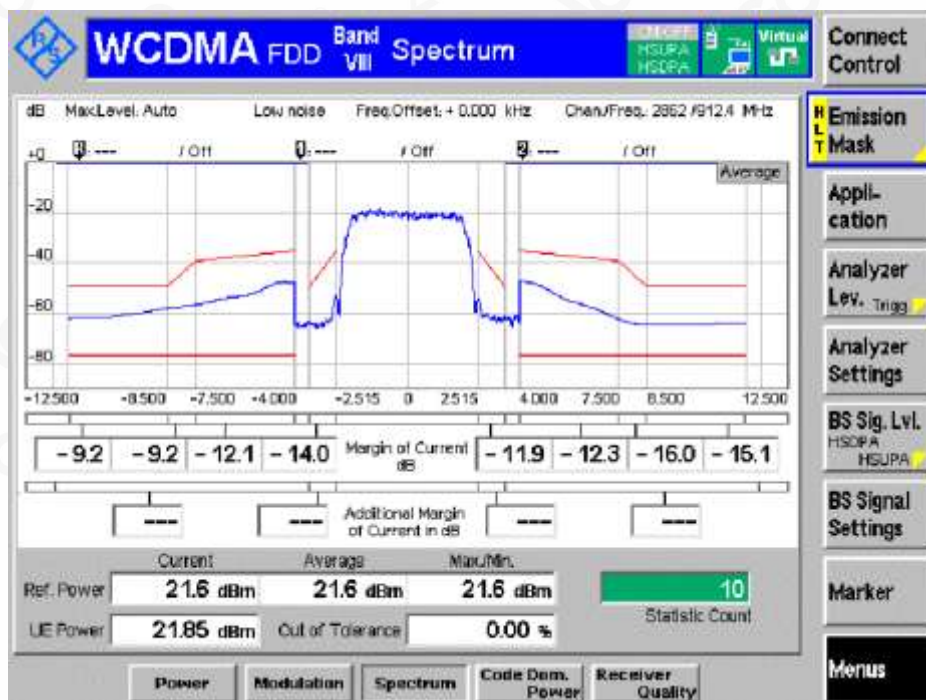
Sub-test 2



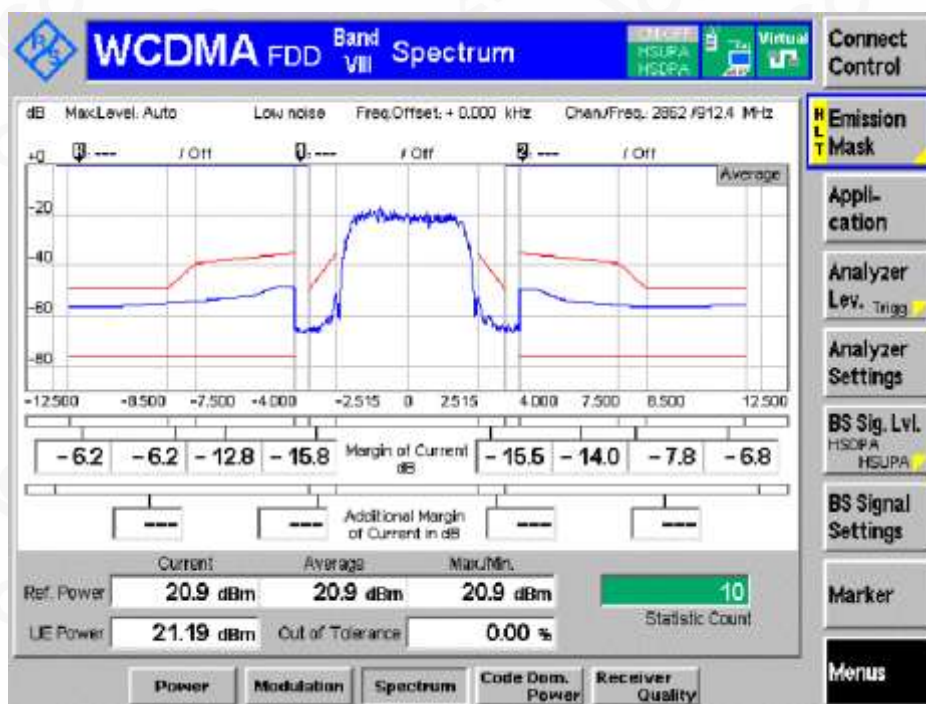
Sub-test 3



Sub-test 4



Sub-test 5



Appendix 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	-39.10	-32.2	Pass
				-5 MHz	-39.74	-32.2	Pass
				-10MHz	-53.60	-42.2	Pass
				+10MHz	-52.53	-42.2	Pass
			2	+5MHz	-39.10	-32.2	Pass
				-5 MHz	-39.56	-32.2	Pass
				-10MHz	-52.47	-42.2	Pass
				+10MHz	-51.17	-42.2	Pass
			3	+5MHz	-38.43	-32.2	Pass
				-5 MHz	-38.59	-32.2	Pass
				-10MHz	-51.69	-42.2	Pass
				+10MHz	-50.45	-42.2	Pass
			4	+5MHz	-37.70	-32.2	Pass
				-5 MHz	-38.30	-32.2	Pass
				-10MHz	-51.11	-42.2	Pass
				+10MHz	-50.52	-42.2	Pass
			5	+5MHz	-39.84	-32.2	Pass
				-5 MHz	-40.02	-32.2	Pass
				-10MHz	-50.34	-42.2	Pass
				+10MHz	-50.30	-42.2	Pass
		MCH	1	+5MHz	-39.47	-32.2	Pass
				-5 MHz	-39.93	-32.2	Pass
				-10MHz	-53.87	-42.2	Pass
				+10MHz	-53.23	-42.2	Pass
			2	+5MHz	-39.51	-32.2	Pass



				-5 MHz	-39.67	-32.2	Pass
				-10MHz	-52.40	-42.2	Pass
				+10MHz	-51.36	-42.2	Pass
			3	+5MHz	-38.82	-32.2	Pass
				-5 MHz	-38.67	-32.2	Pass
				-10MHz	-51.79	-42.2	Pass
				+10MHz	-51.16	-42.2	Pass
			4	+5MHz	-37.81	-32.2	Pass
				-5 MHz	-38.06	-32.2	Pass
				-10MHz	-51.24	-42.2	Pass
				+10MHz	-50.70	-42.2	Pass
			5	+5MHz	-40.11	-32.2	Pass
				-5 MHz	-40.19	-32.2	Pass
				-10MHz	-50.47	-42.2	Pass
				+10MHz	-50.41	-42.2	Pass
		HCH	1	+5MHz	-37.76	-32.2	Pass
				-5 MHz	-37.91	-32.2	Pass
				-10MHz	-50.88	-42.2	Pass
				+10MHz	-51.27	-42.2	Pass
			2	+5MHz	-38.53	-32.2	Pass
				-5 MHz	-38.41	-32.2	Pass
				-10MHz	-49.78	-42.2	Pass
				+10MHz	-49.90	-42.2	Pass
			3	+5MHz	-37.49	-32.2	Pass
				-5 MHz	-37.21	-32.2	Pass
				-10MHz	-48.47	-42.2	Pass
				+10MHz	-48.92	-42.2	Pass
			4	+5MHz	-37.03	-32.2	Pass



				-5 MHz	-37.38	-32.2	Pass
				-10MHz	-48.55	-42.2	Pass
				+10MHz	-48.96	-42.2	Pass
			5	+5MHz	-38.47	-32.2	Pass
				-5 MHz	-38.50	-32.2	Pass
				-10MHz	-49.80	-42.2	Pass
				+10MHz	-49.95	-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	-46.69	-32.2	Pass
				-5 MHz	-46.69	-32.2	Pass
				-10MHz	-56.57	-42.2	Pass
				+10MHz	-55.03	-42.2	Pass
			2	+5MHz	-44.79	-32.2	Pass
				-5 MHz	-44.69	-32.2	Pass
				-10MHz	-56.97	-42.2	Pass
				+10MHz	-54.44	-42.2	Pass
			3	+5MHz	-43.48	-32.2	Pass
				-5 MHz	-45.33	-32.2	Pass
				-10MHz	-57.34	-42.2	Pass
				+10MHz	-50.52	-42.2	Pass
			4	+5MHz	-44.35	-32.2	Pass
				-5 MHz	-44.20	-32.2	Pass
				-10MHz	-57.73	-42.2	Pass
				+10MHz	-54.95	-42.2	Pass
			5	+5MHz	-45.04	-32.2	Pass
				-5 MHz	-44.86	-32.2	Pass
				-10MHz	-50.79	-42.2	Pass



				+10MHz	-50.34	-42.2	Pass
				1	+5MHz	-46.18	Pass
					-5 MHz	-46.53	Pass
					-10MHz	-55.00	Pass
					+10MHz	-55.81	Pass
				2	+5MHz	-44.73	Pass
					-5 MHz	-44.84	Pass
					-10MHz	-55.12	Pass
					+10MHz	-55.42	Pass
				3	+5MHz	-43.86	Pass
					-5 MHz	-45.59	Pass
					-10MHz	-51.99	Pass
					+10MHz	-53.83	Pass
				4	+5MHz	-44.32	Pass
					-5 MHz	-44.81	Pass
					-10MHz	-55.17	Pass
					+10MHz	-55.98	Pass
				5	+5MHz	-45.31	Pass
					-5 MHz	-44.88	Pass
					-10MHz	-50.27	Pass
					+10MHz	-50.49	Pass
		HCH	1	+5MHz	-46.38	-32.2	Pass
				-5 MHz	-45.36	-32.2	Pass
				-10MHz	-55.80	-42.2	Pass
				+10MHz	-57.73	-42.2	Pass
			2	+5MHz	-46.23	-32.2	Pass
				-5 MHz	-44.32	-32.2	Pass
				-10MHz	-55.38	-42.2	Pass



				+10MHz	-58.32	-42.2	Pass
			3	+5MHz	-46.21	-32.2	Pass
				-5 MHz	-43.38	-32.2	Pass
				-10MHz	-55.57	-42.2	Pass
				+10MHz	-58.69	-42.2	Pass
			4	+5MHz	-45.62	-32.2	Pass
				-5 MHz	-44.06	-32.2	Pass
				-10MHz	-55.77	-42.2	Pass
				+10MHz	-59.26	-42.2	Pass
			5	+5MHz	-45.97	-32.2	Pass
				-5 MHz	-44.47	-32.2	Pass
				-10MHz	-50.52	-42.2	Pass
				+10MHz	-51.10	-42.2	Pass

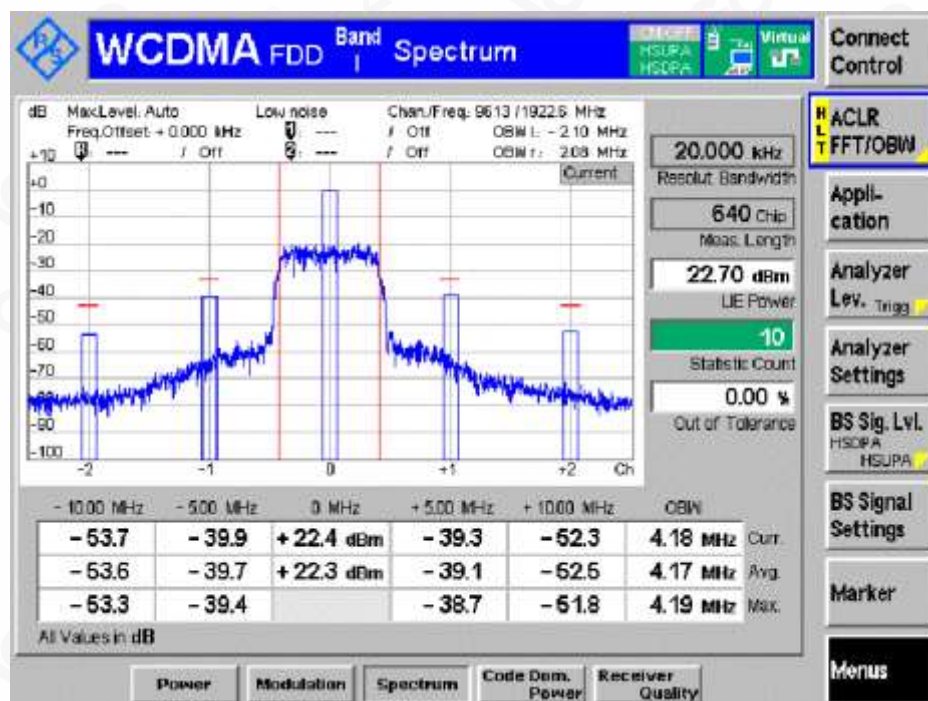


BAND I

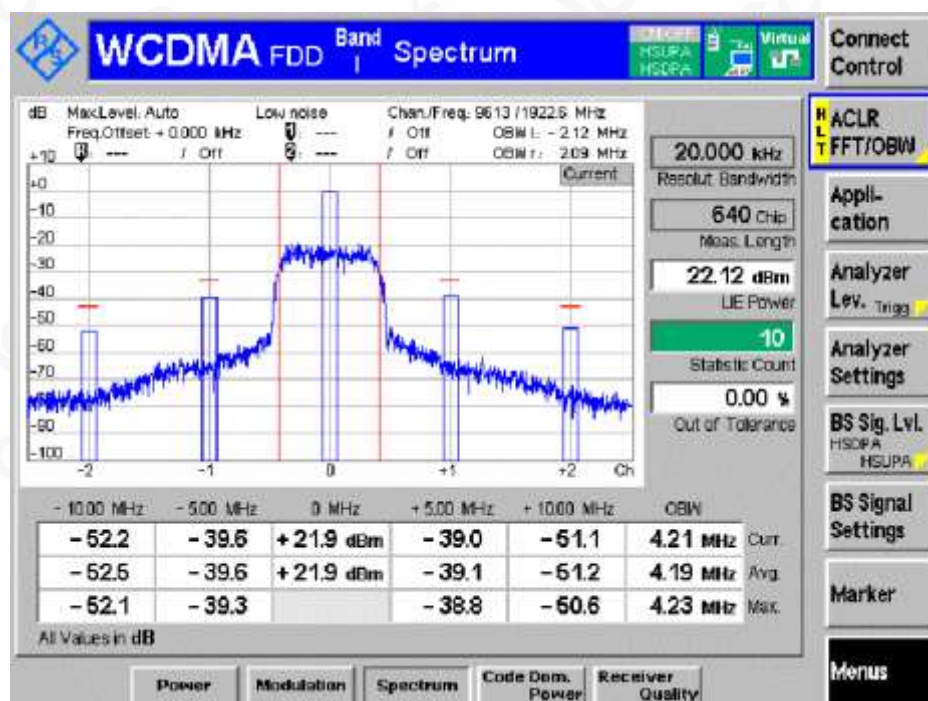
TNVN

Channel LCH

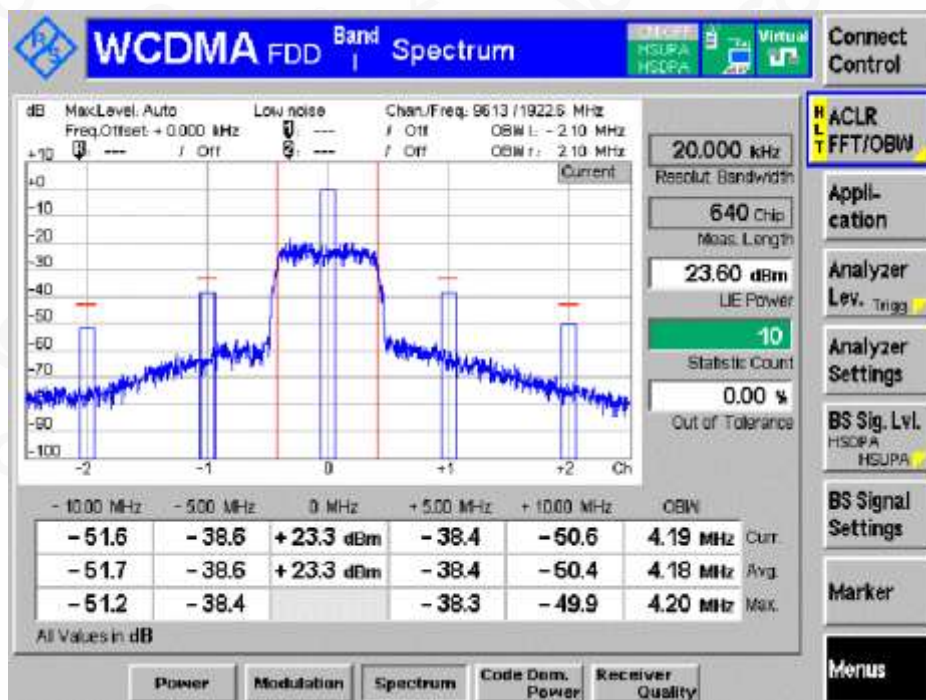
Sub-test 1



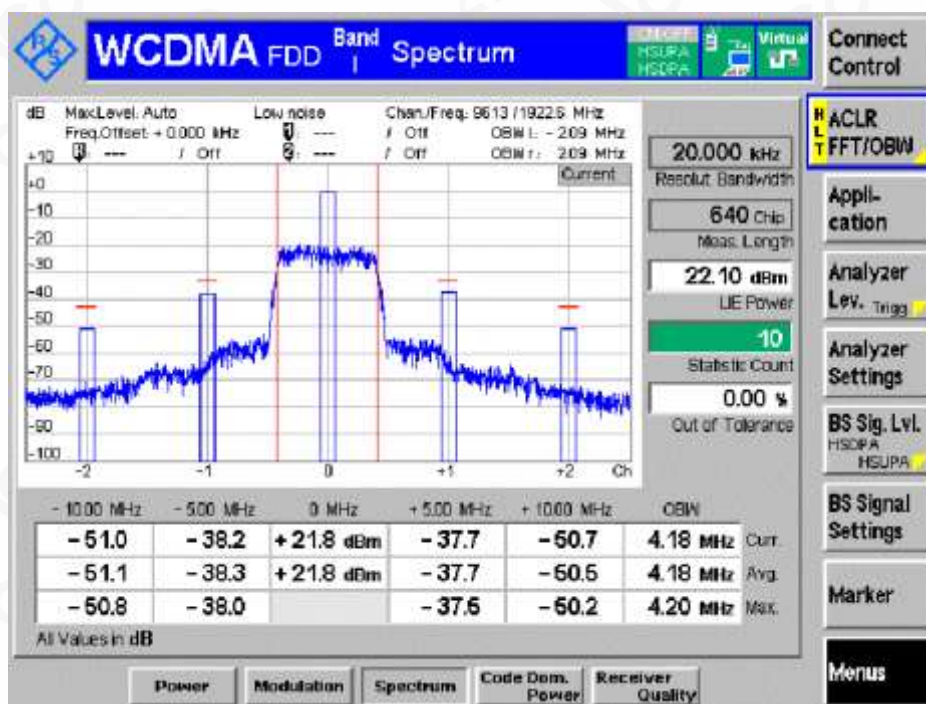
Sub-test 2



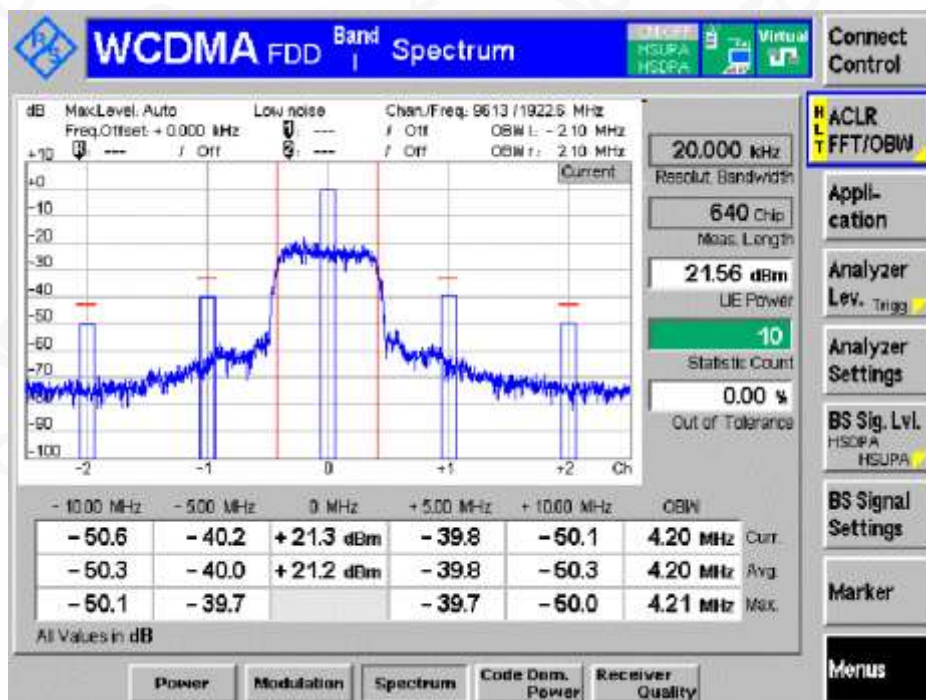
Sub-test 3



Sub-test 4

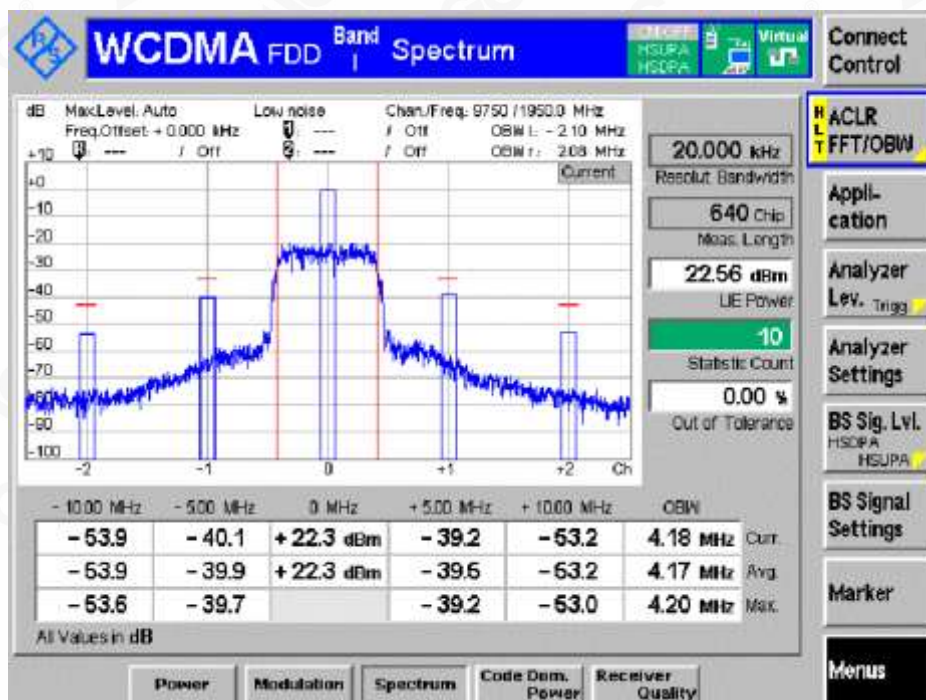


Sub-test 5

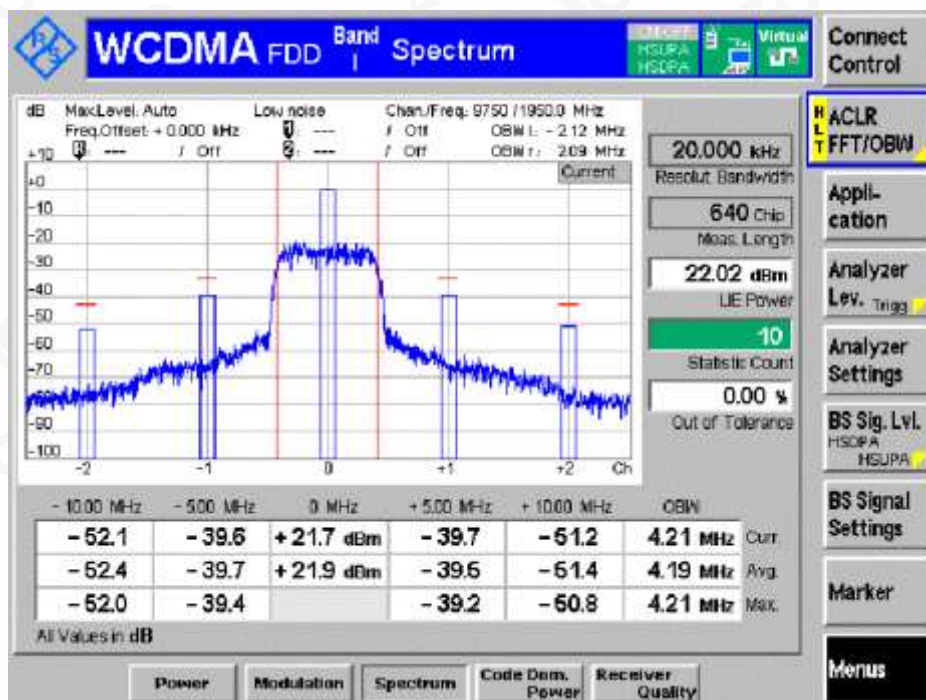


Channel MCH

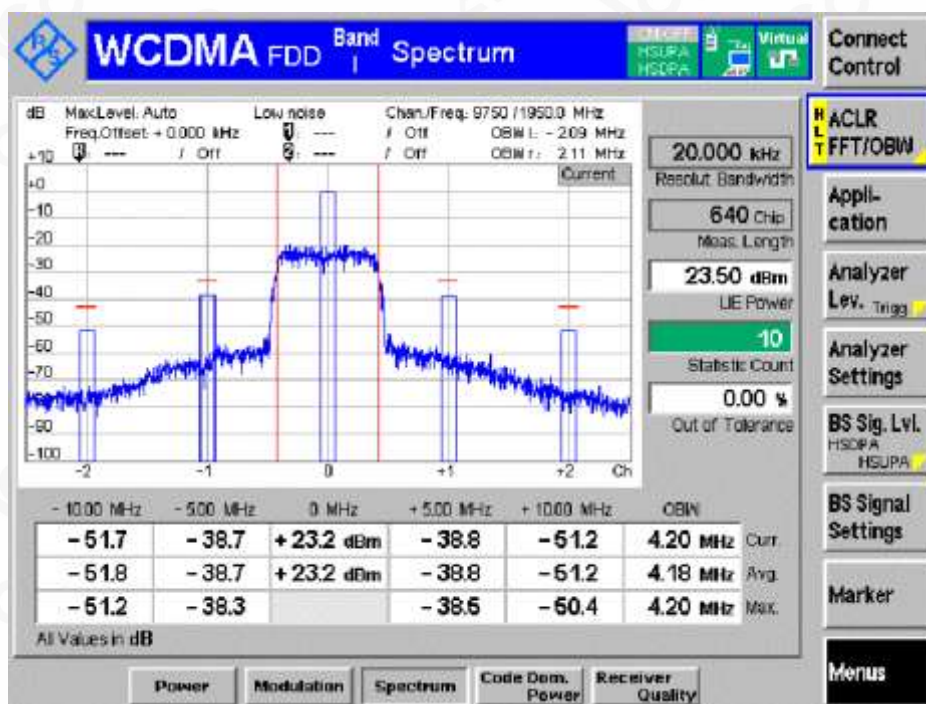
Sub-test 1



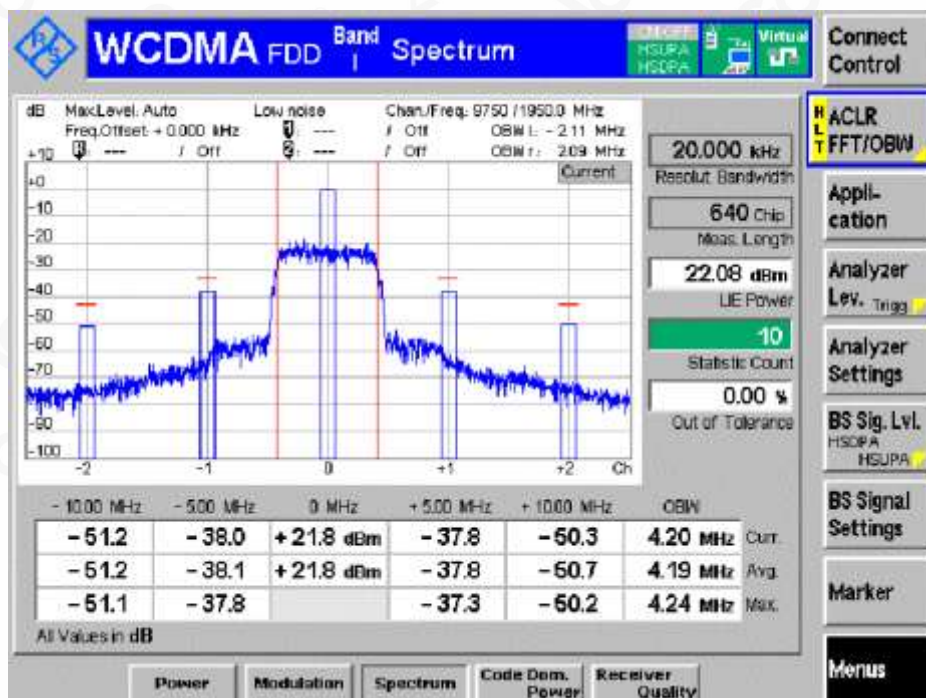
Sub-test 2



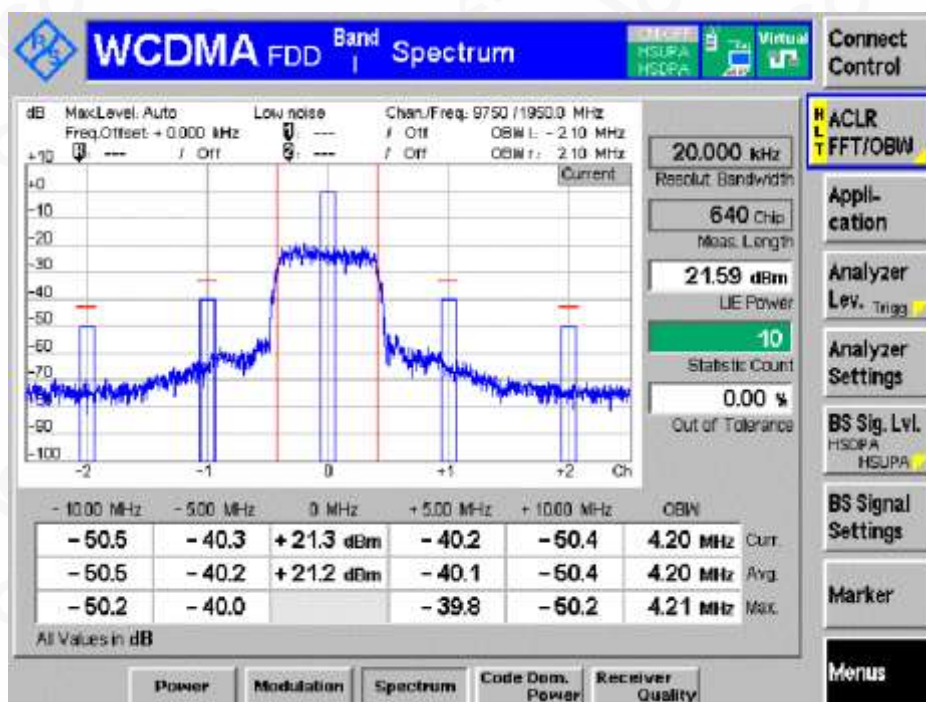
Sub-test 3



Sub-test 4

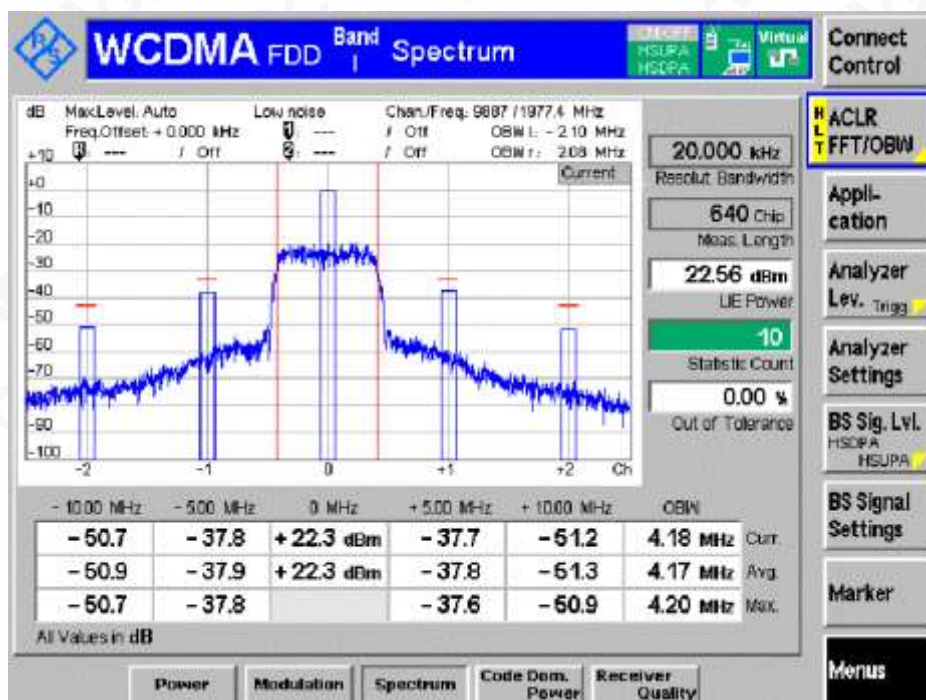


Sub-test 5

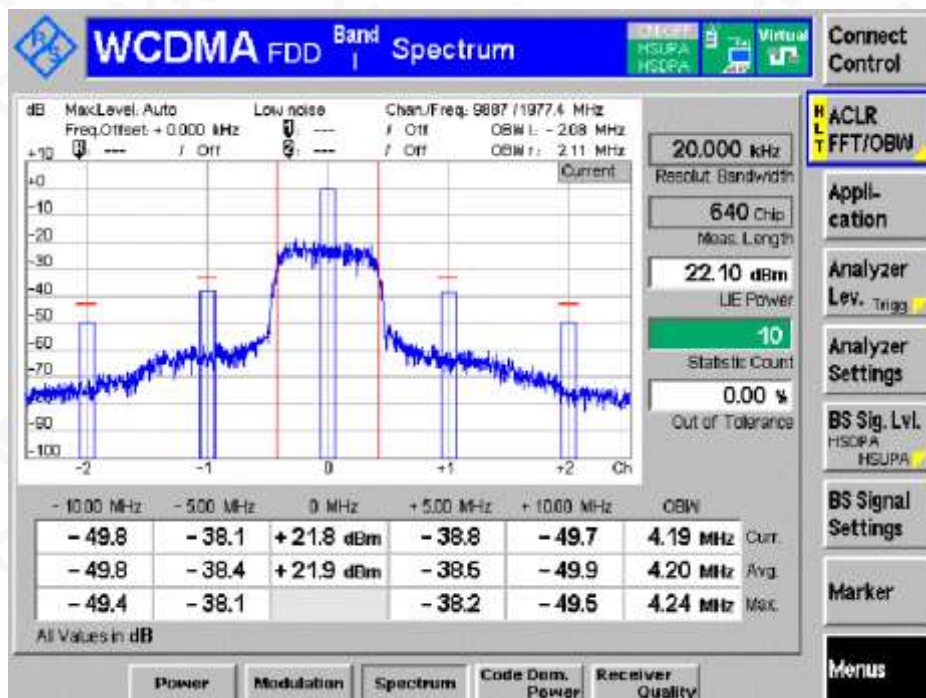


Channel HCH

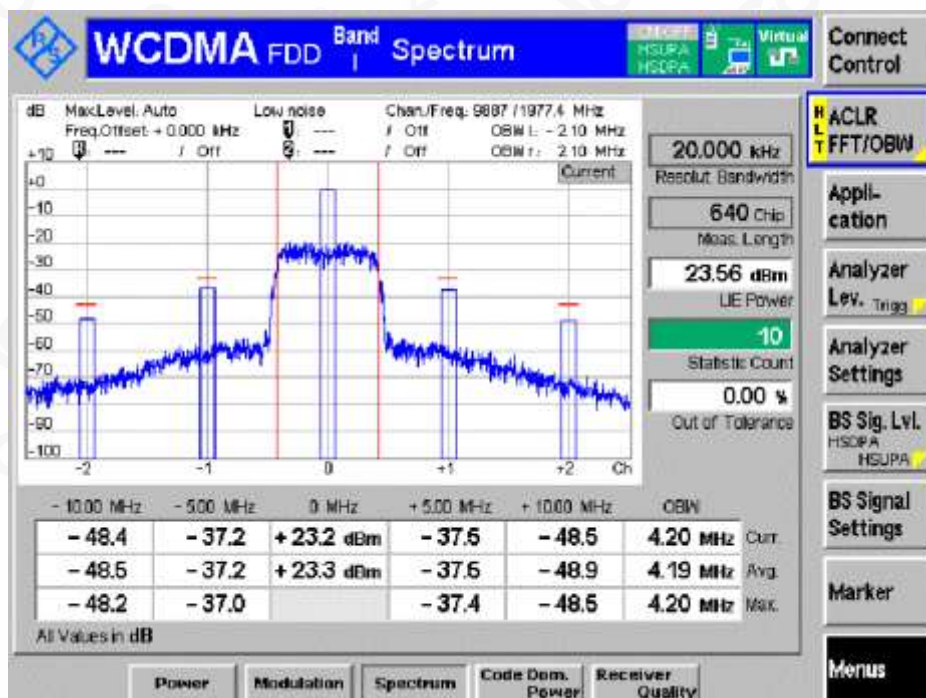
Sub-test 1



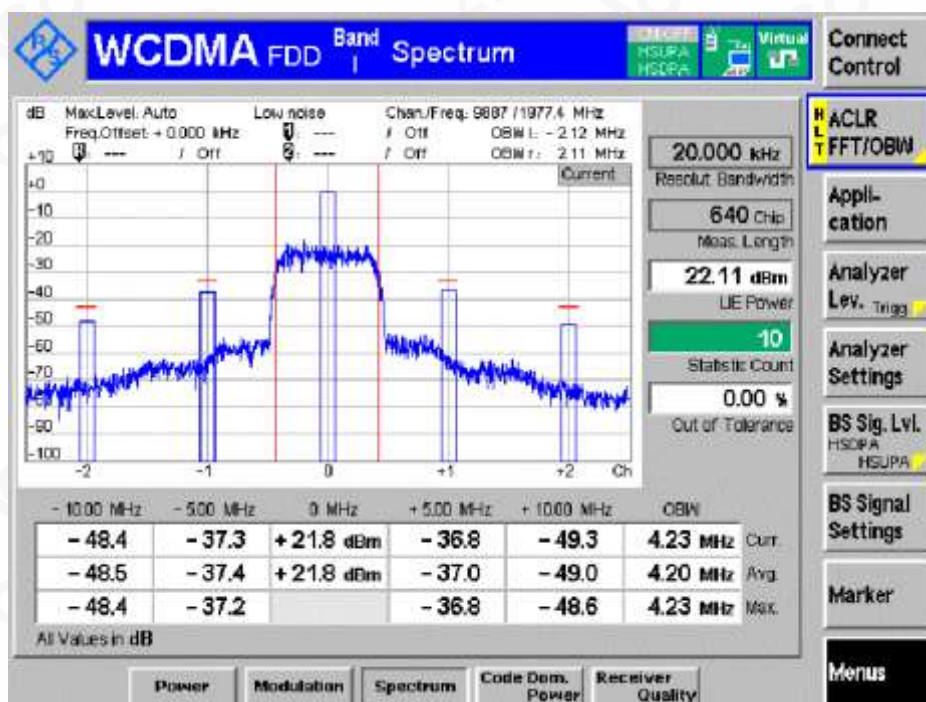
Sub-test 2



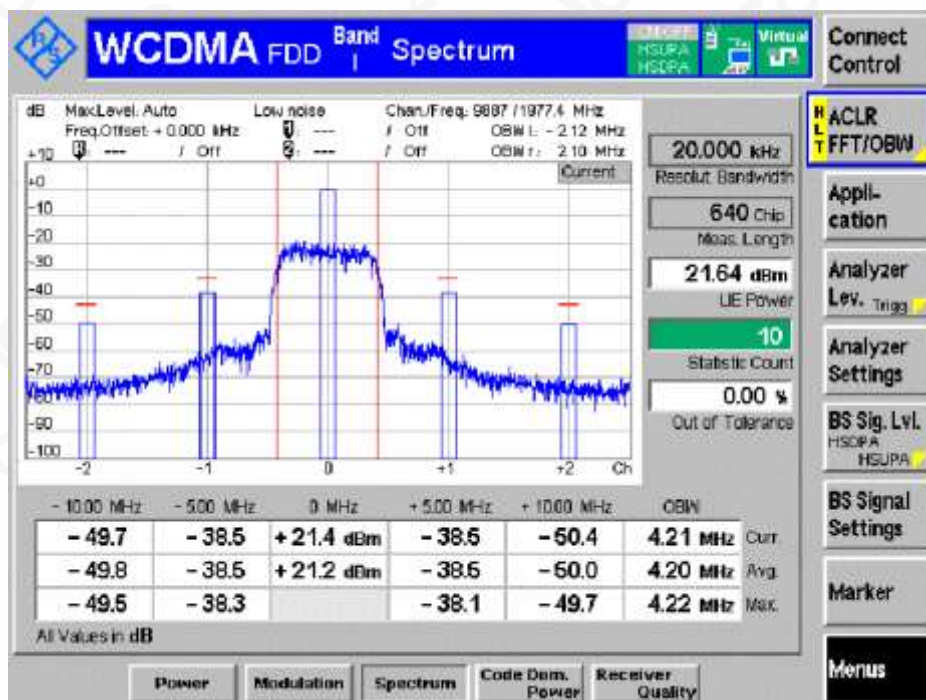
Sub-test 3



Sub-test 4



Sub-test 5

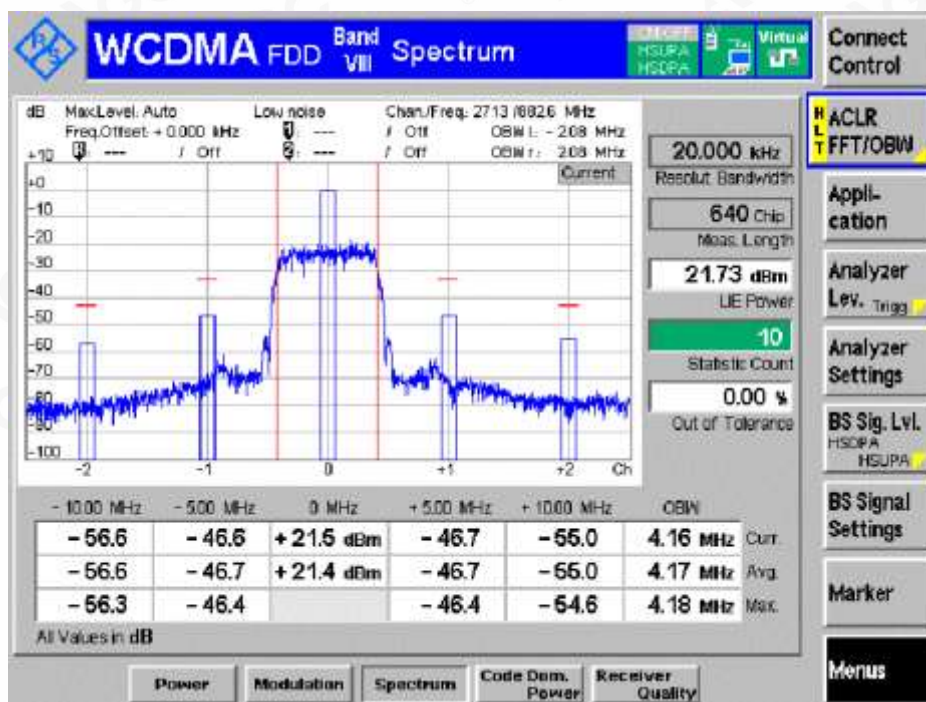


BAND VIII

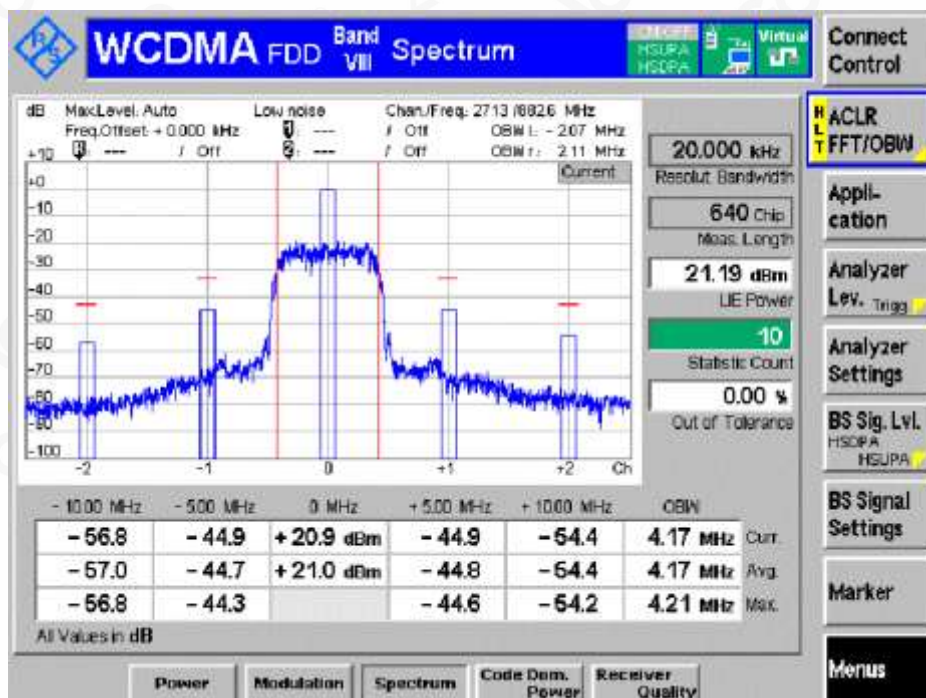
TNPN

Channel LCH

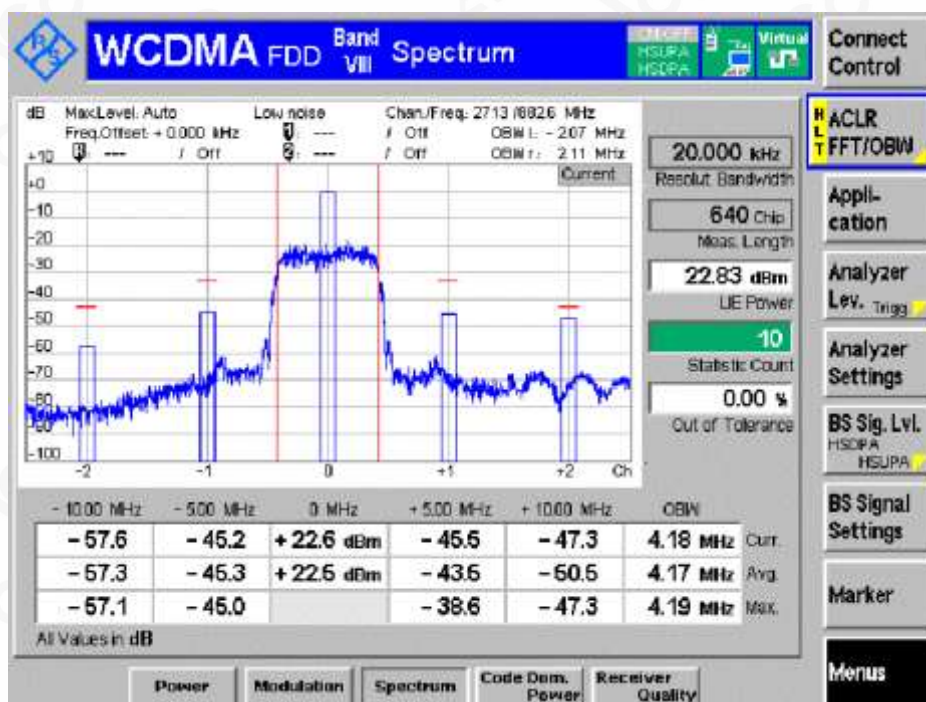
Sub-test 1



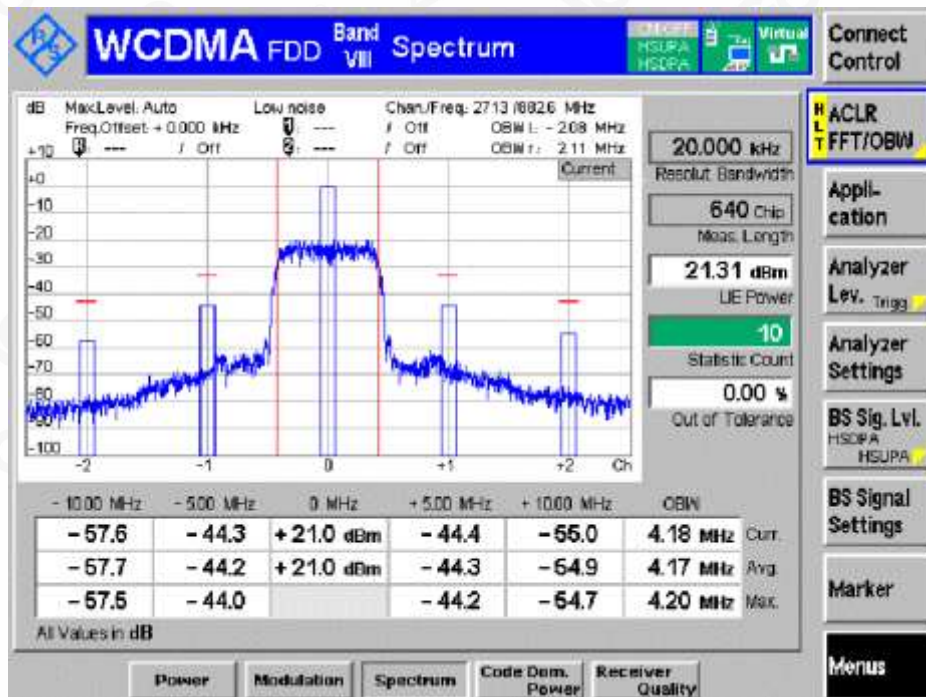
Sub-test 2



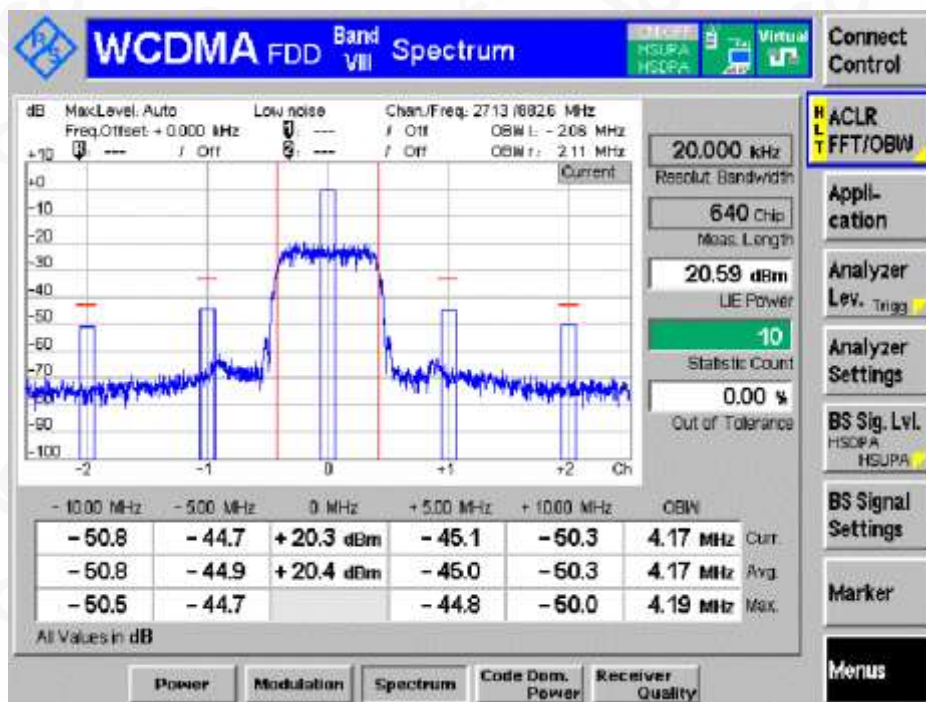
Sub-test 3



Sub-test 4

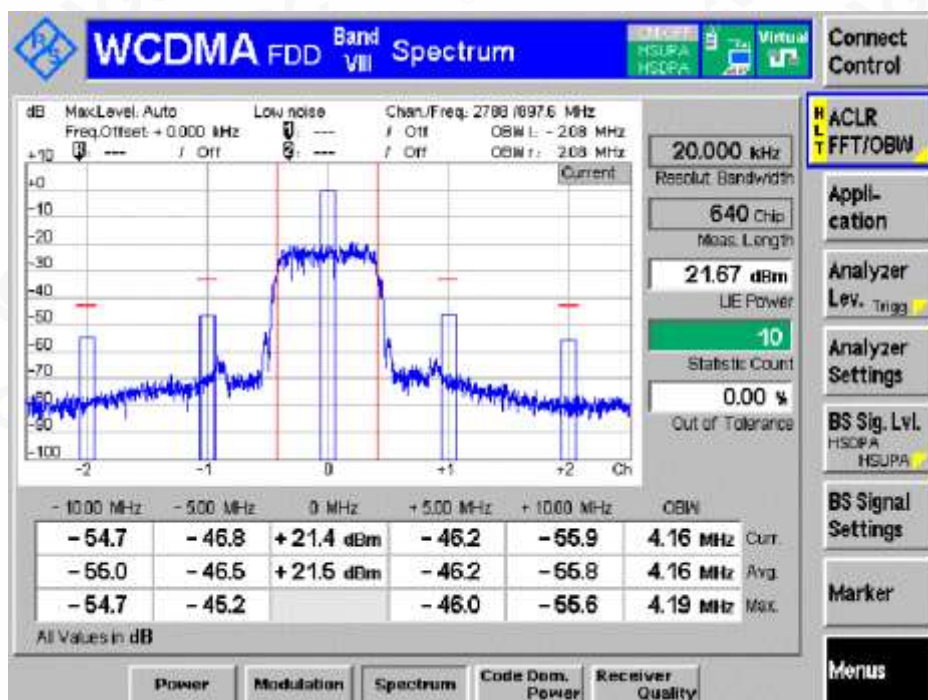


Sub-test 5

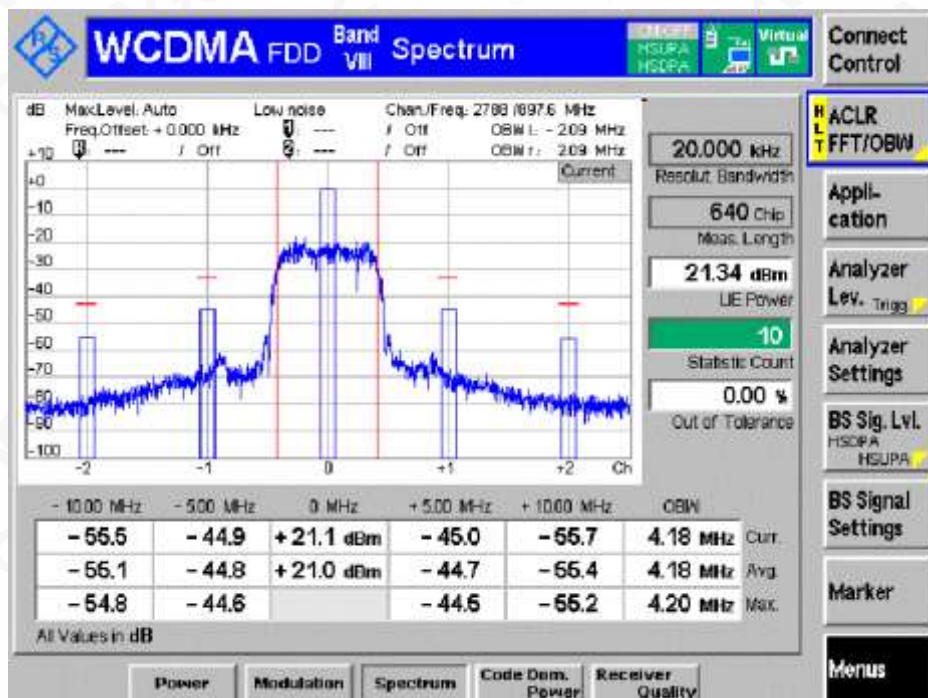


Channel MCH

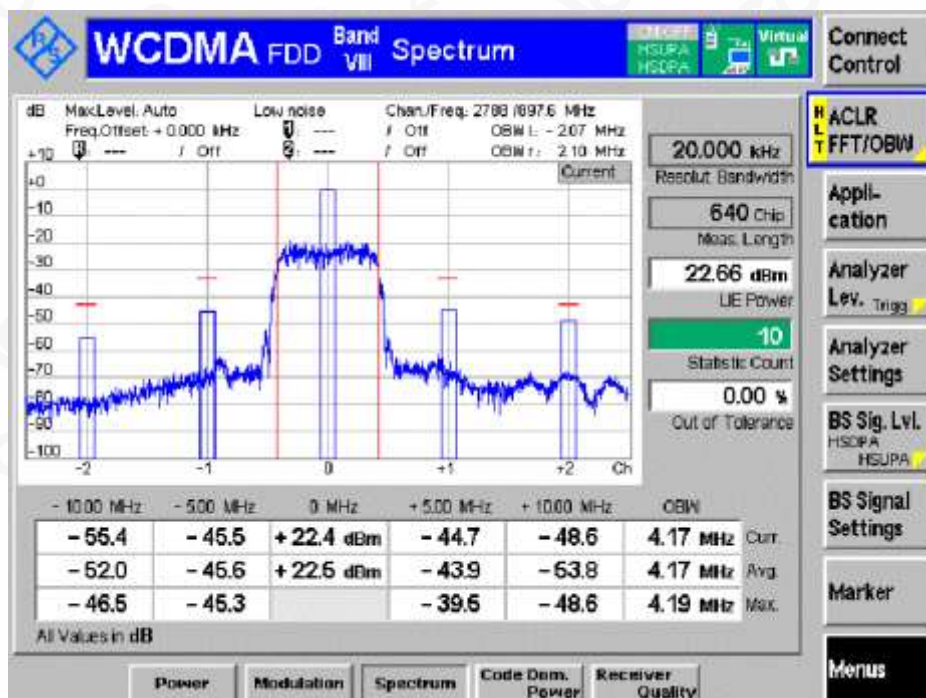
Sub-test 1



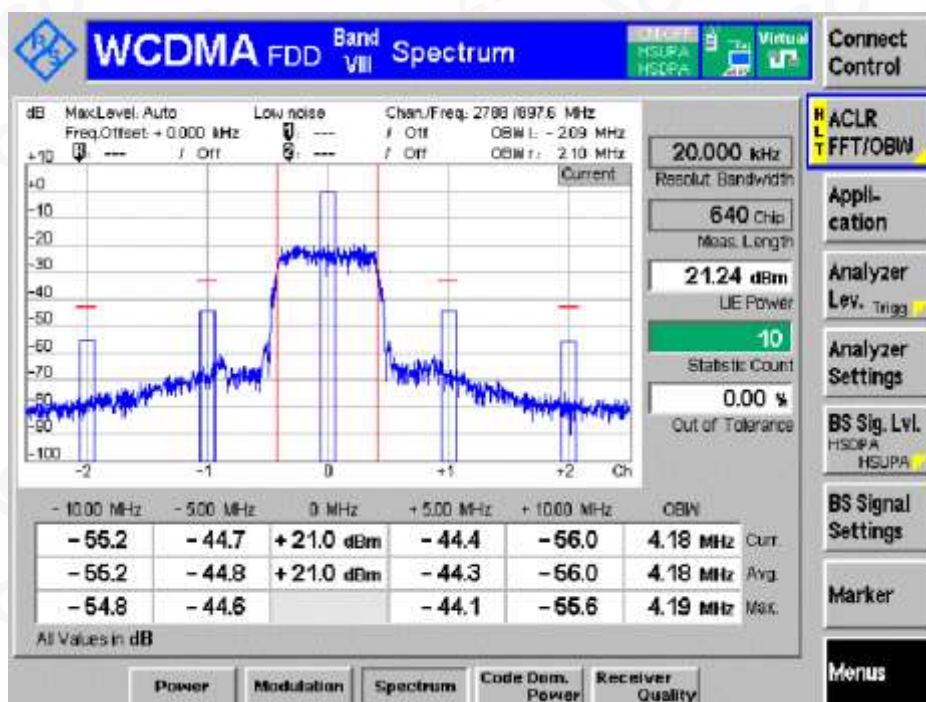
Sub-test 2



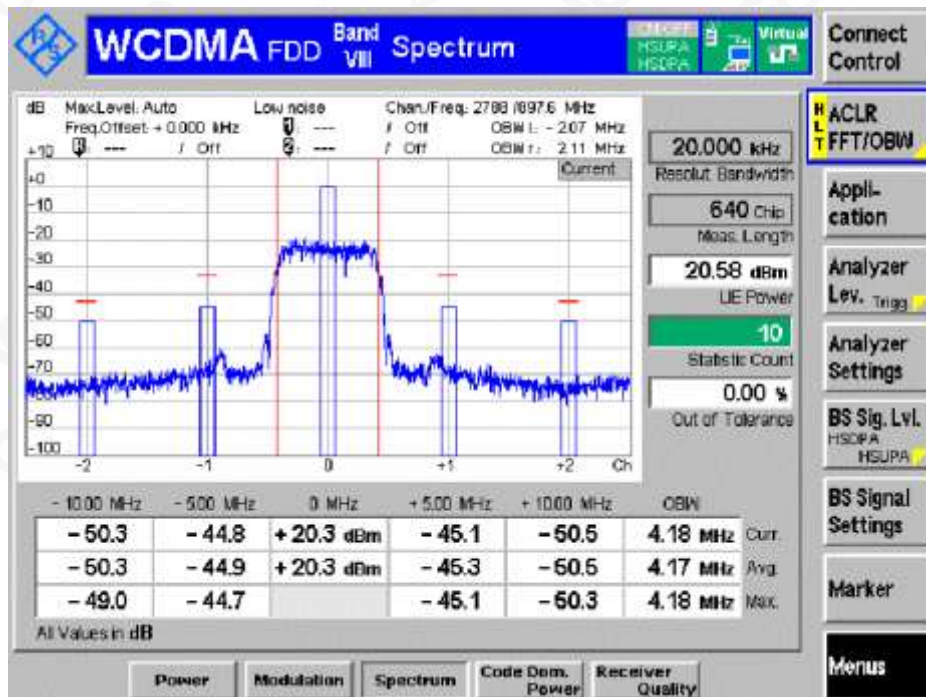
Sub-test 3



Sub-test 4

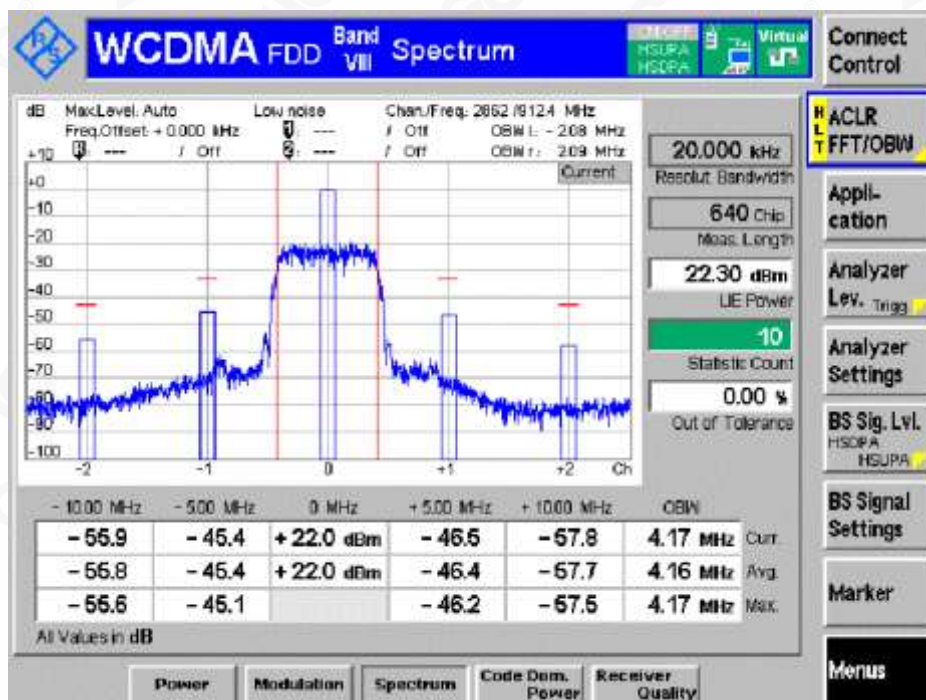


Sub-test 5

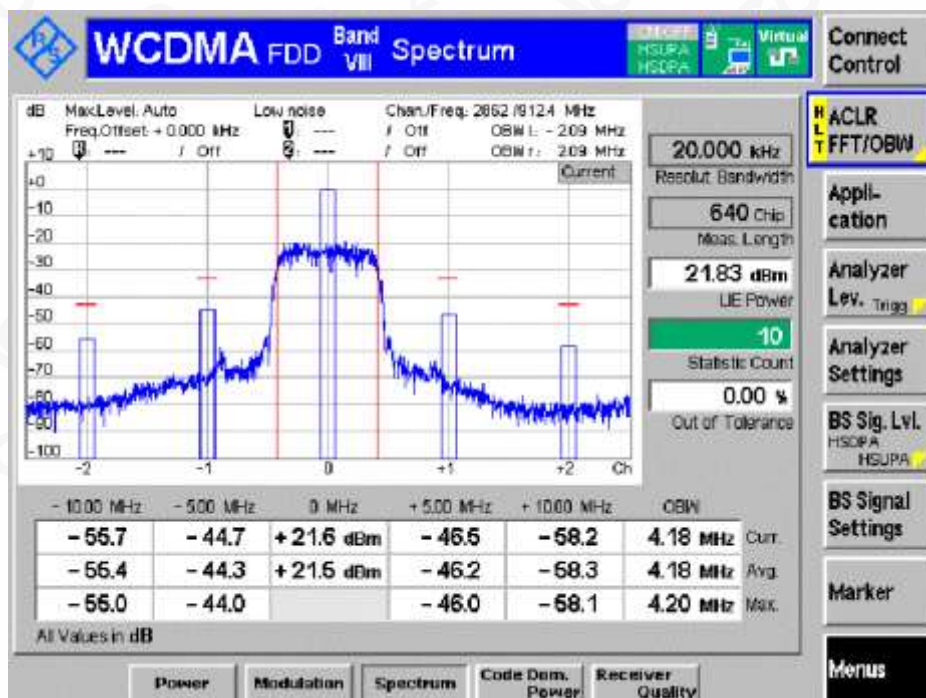


Channel HCH

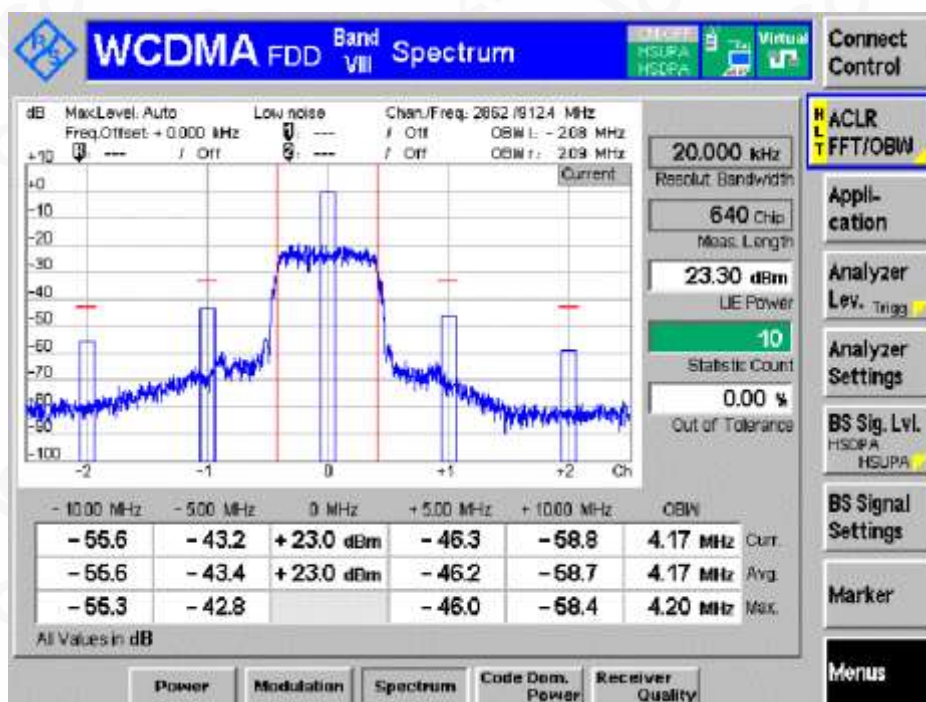
Sub-test 1



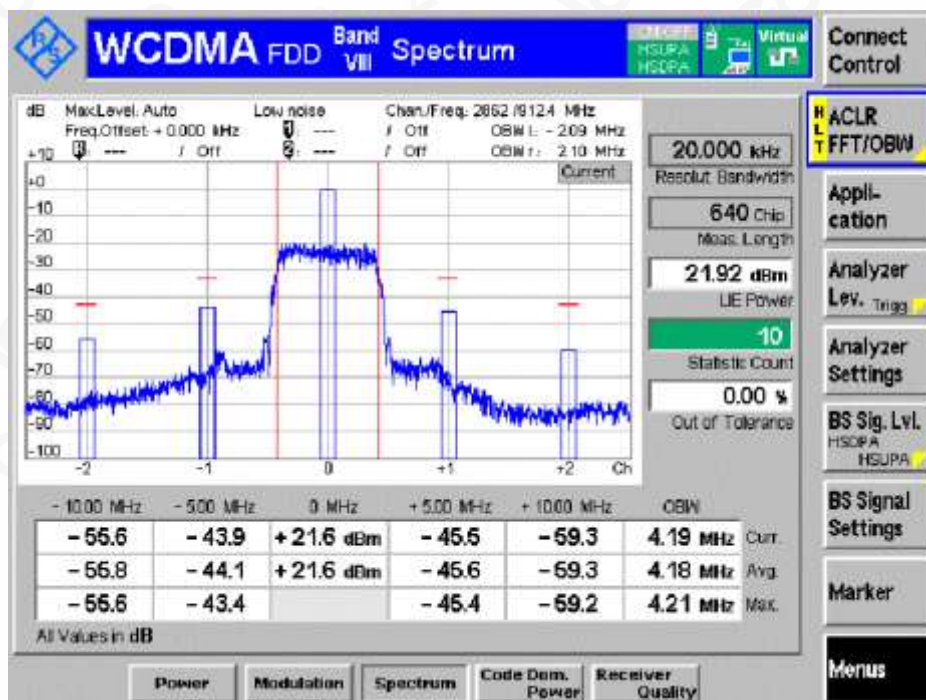
Sub-test 2



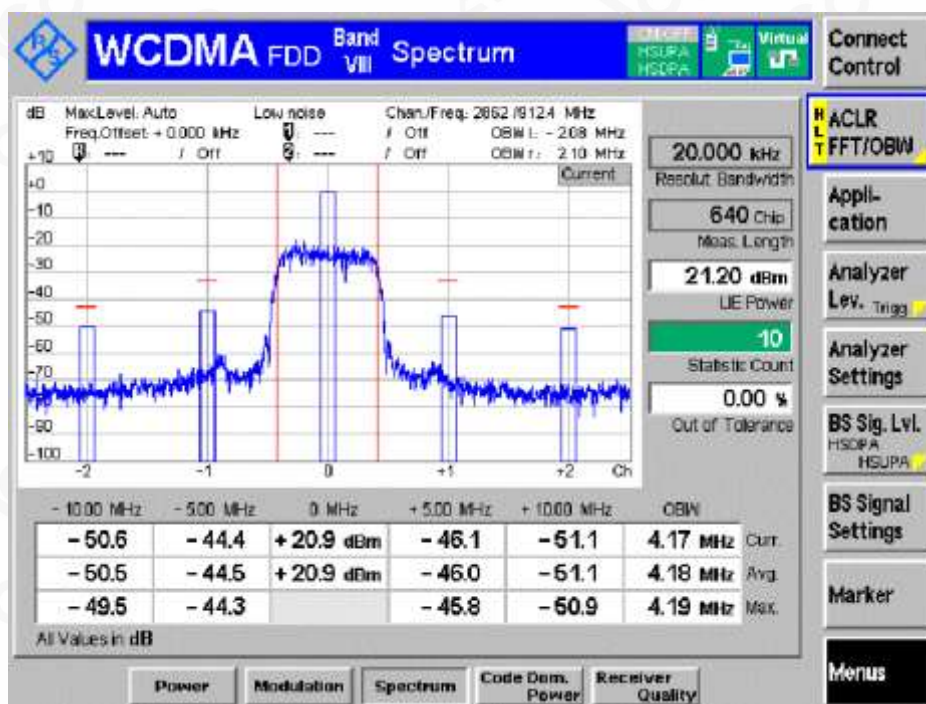
Sub-test 3



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	-62.2511177063	-62.1298904419	-62.2453651428	Pass
1 GHz ≤f ≤ 12.75 GHz	1 MHz	-47	-47.0378456116	-47.066570282	-47.0715560913	Pass
791 MHz ≤f ≤ 821 MHz	3.84MHz	-60	-63.8994407654	-63.9493942261	-63.94947052	Pass
921 MHz ≤f < 925 MHz	100 kHz	-60	-63.0314826965	-62.373664856	-62.087474823	Pass
925 MHz ≤f ≤ 935 MHz	100 kHz	-67	-72.8773269653	-73.2325744629	-71.6930770874	Pass
935 MHz < f ≤ 960 MHz	100 kHz	-79	-87.1156463623	-87.0426864624	-86.9300079346	Pass
1805MHz ≤f ≤1880MHz	100 kHz	-60	-83.2358016968	-83.2610015869	-82.9691696167	Pass
1920MHz ≤f ≤1980MHz	3.84MHz	-60	-69.4662857056	-69.5036773682	-69.4780197144	Pass
2 110 MHz ≤f ≤2170 MHz	3.84MHz	-60	-68.7409973145	-68.7407455444	-68.8122177124	Pass
2 585 MHz ≤f ≤2690MHz	3.84MHz	-60	-66.1834030151	-66.1624908447	-66.2123413086	Pass



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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

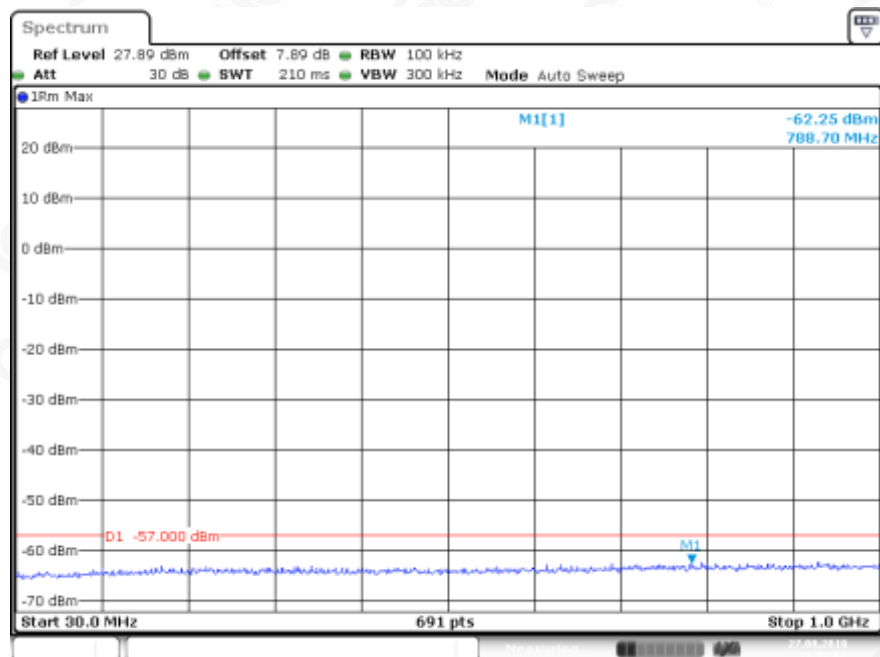
Frequency	RBW	Max .Level (dbm)	Test Band=Band VIII			Result
			Test Conditions=TNVN			
			Test Channel			
			LCH	MCH	HCH	
30 MHz ≤f < 1 GHz	100 kHz	-57	-62.2599639893	-62.0970726013	-62.1138725281	Pass
1 GHz ≤f ≤12.75 GHz	1 MHz	-47	-47.1375236511	-53.73279953	-53.804473877	Pass
791 MHz ≤f ≤821 MHz	3.84MHz	-60	-63.9292449951	-63.9837684631	-63.949836731	Pass
880 MHz ≤f < 915 MHz	3.84MHz	-60	-68.1843795776	-68.2217483521	-68.2173233032	Pass
921 MHz ≤f ≤925 MHz	100 kHz	-60	-61.8922119141	-62.2836952209	-61.7053184509	Pass
925 MHz ≤f ≤935 MHz	100 kHz	-67	-77.1965866089	-77.1971740723	-77.1493606567	Pass
925 MHz ≤f ≤935 MHz	3.84MHz	-60	-69.228515625	-69.2192840576	-69.2616424561	Pass
935 MHz < f ≤960 MHz	100 kHz	-79	-86.9677734375	-87.1381378174	-87.241394043	Pass
1805MHz ≤f ≤1880MHz	3.84MHz	-60	-69.5471115112	-63.7693252563	-63.7060928345	Pass
2 110 MHz ≤f ≤2170 MHz	3.84MHz	-60	-68.7900772095	-68.739982605	-68.8227005005	Pass
2 585 MHz ≤f ≤2690MHz	3.84MHz	-60	-66.1951522827	-66.2228088379	-66.2278823853	Pass



BAND I

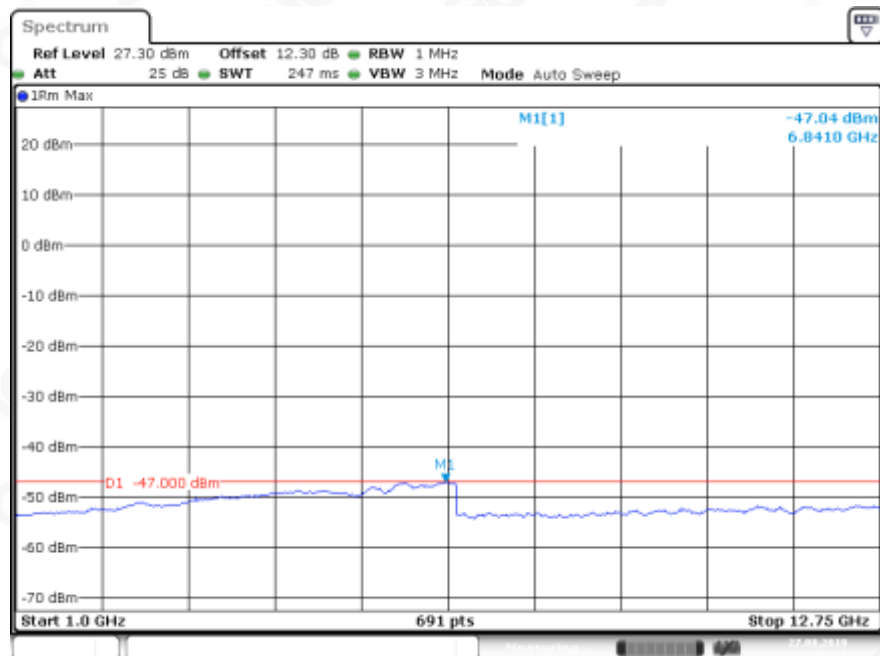
Channel LCH

30MHZ~1GHZ



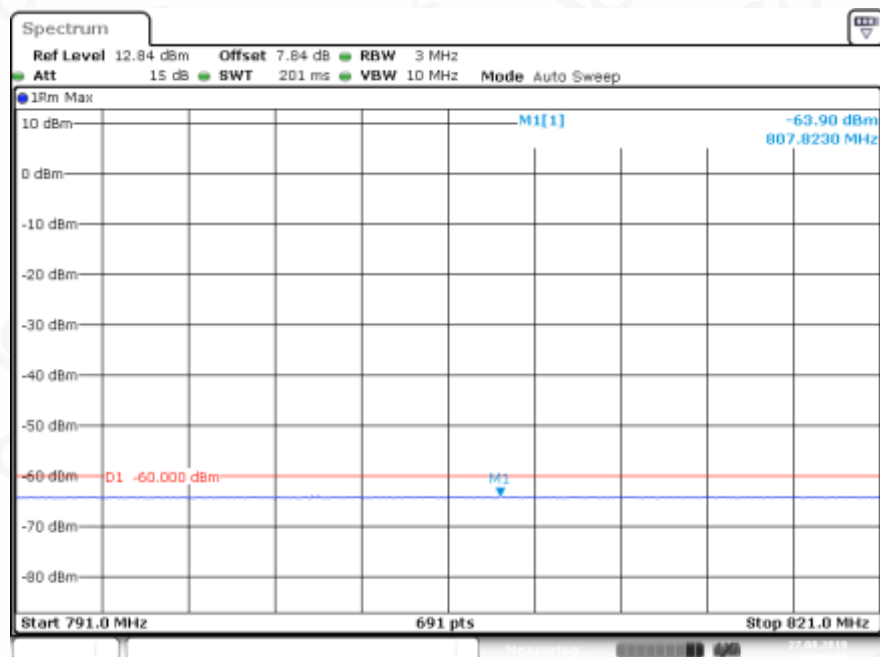
Date: 27.AUG.2019 15:37:01

1GHZ~12.75GHZ



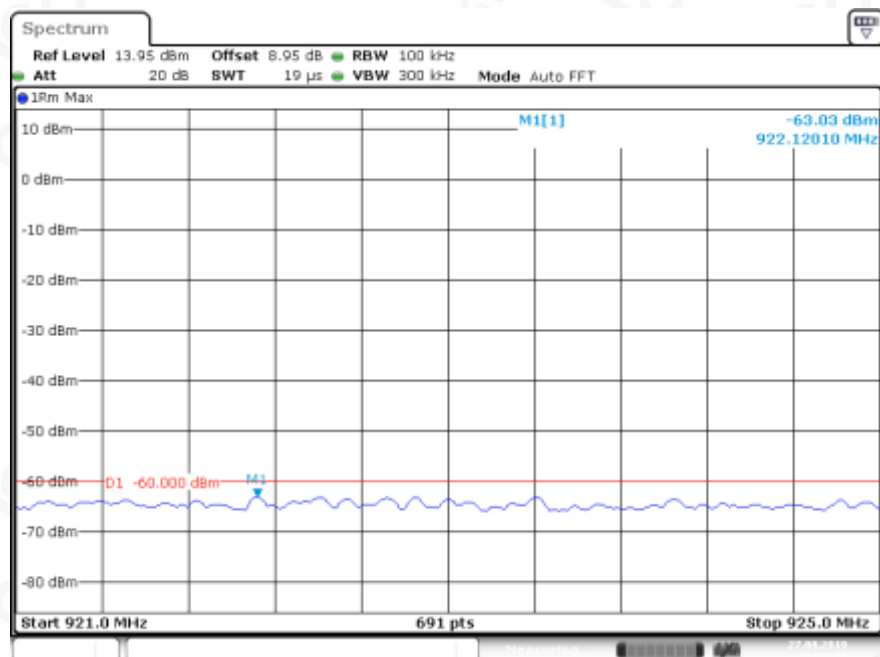
Date: 27.AUG.2019 15:37:20

791MHZ~821MHZ



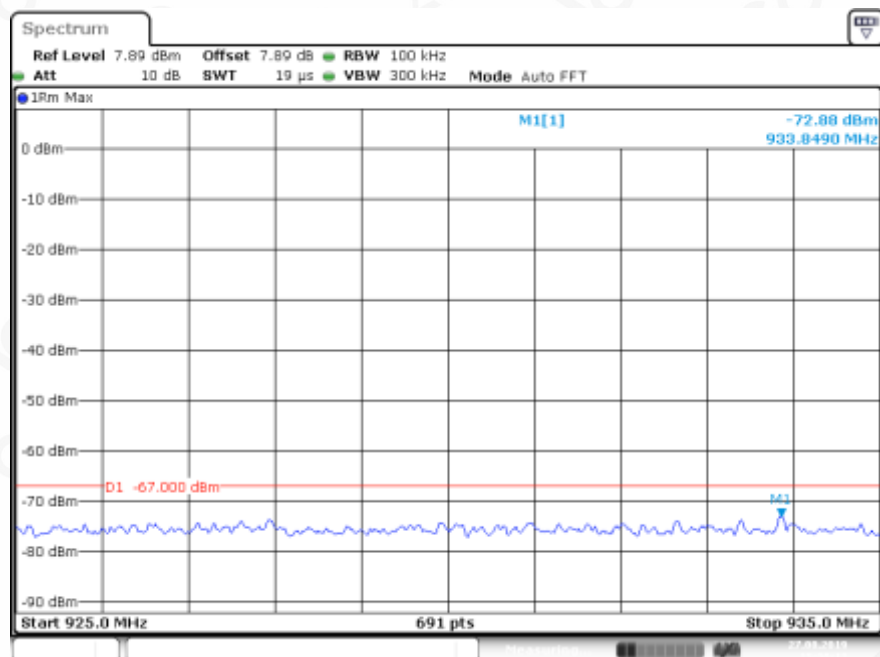
Date: 27.AUG.2019 15:37:39

921MHZ~925MHZ



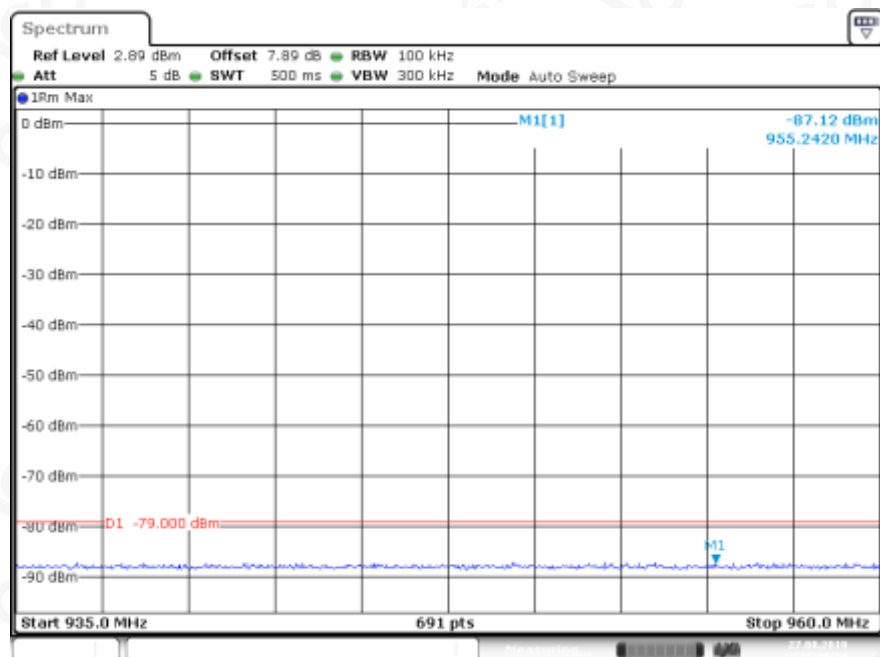
Date: 27.AUG.2019 15:37:52

925MHZ~935MHZ



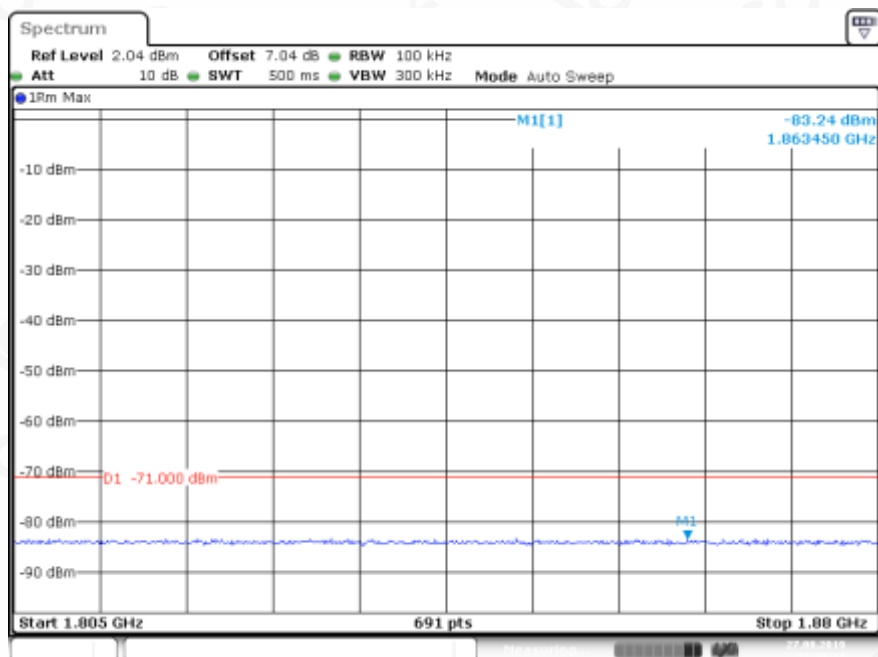
Date: 27.AUG.2019 15:38:11

935MHZ~960MHZ



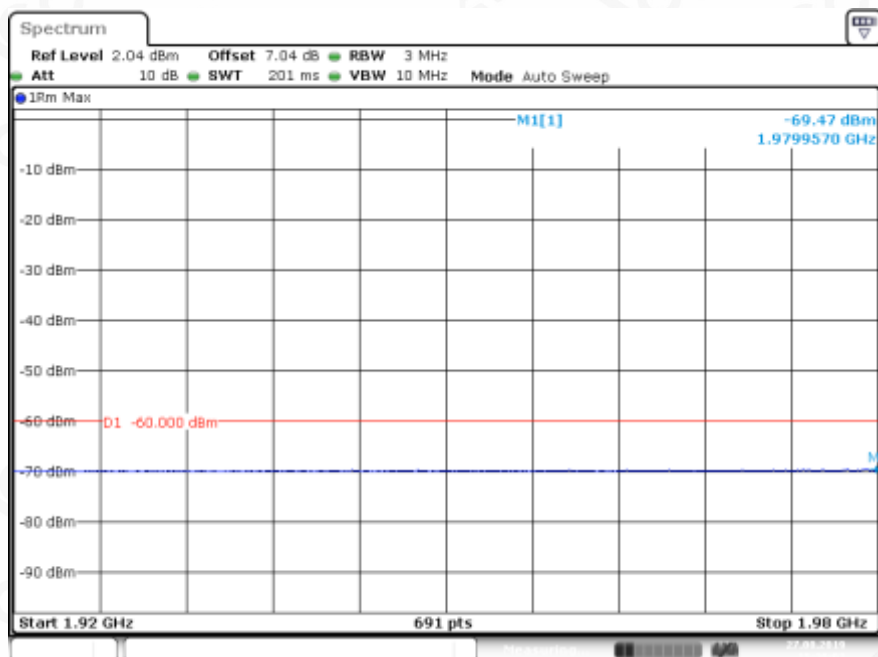
Date: 27.AUG.2019 15:38:24

1805MHZ~1880MHZ



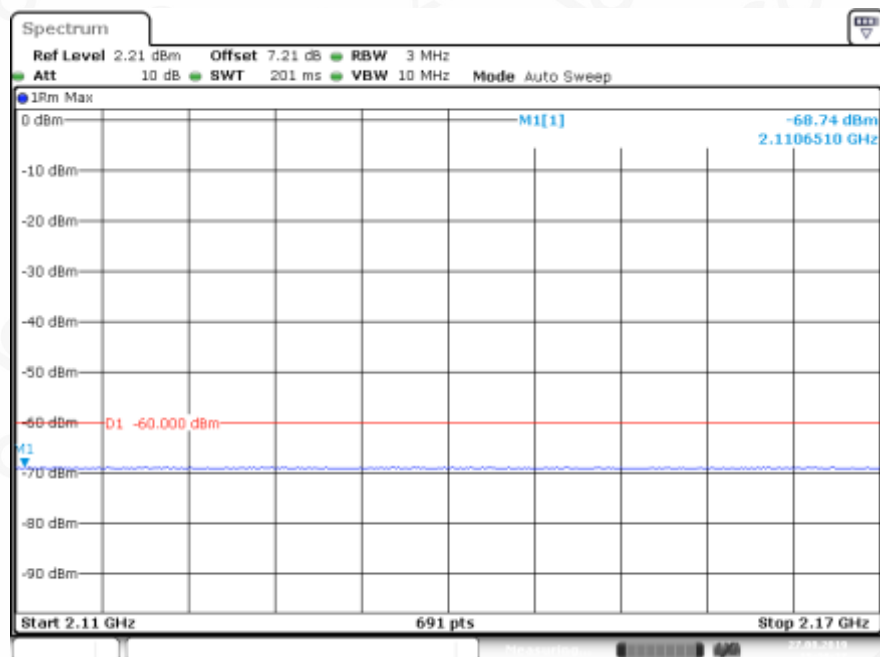
Date: 27.AUG.2019 15:38:37

1920MHZ~1980MHZ



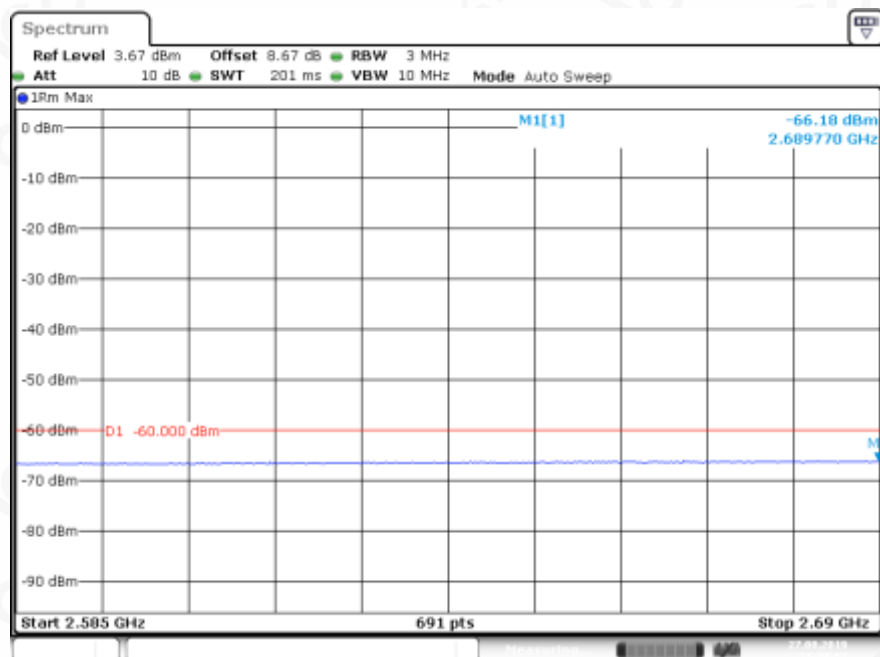
Date: 27.AUG.2019 15:39:02

2110MHZ~2170MHZ



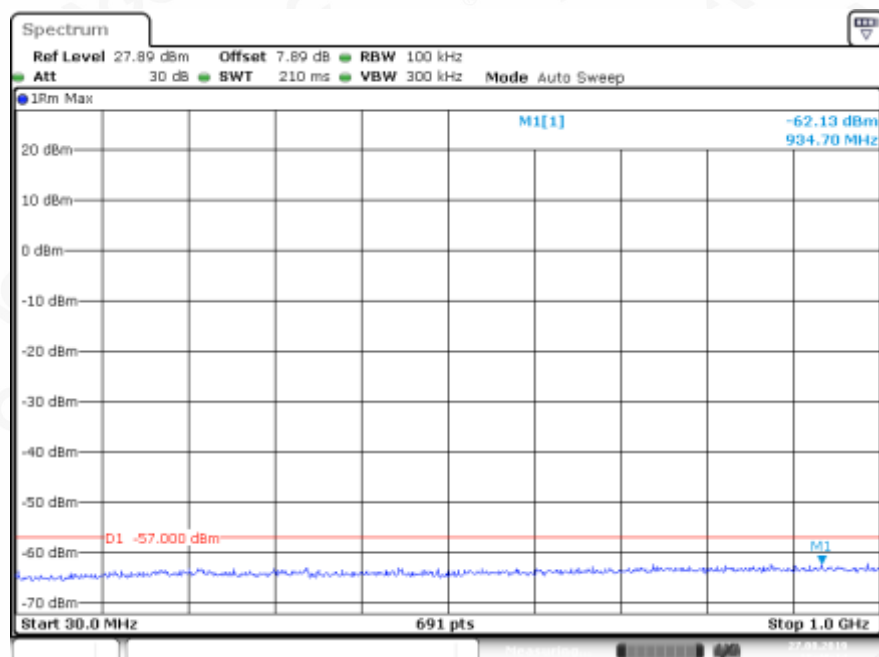
Date: 27.AUG.2019 15:39:27

2585MHZ~2690MHZ



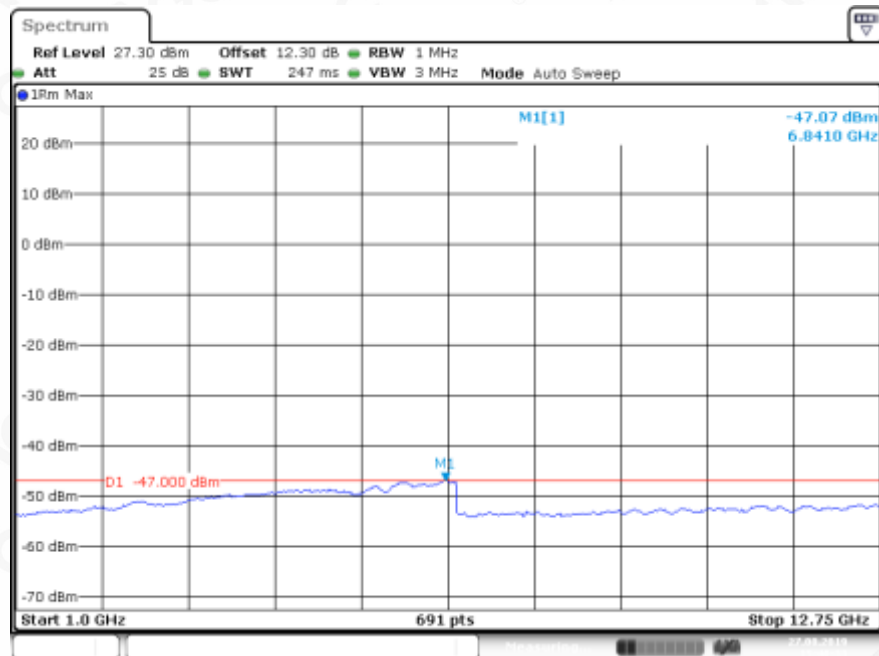
Date: 27.AUG.2019 15:39:52

Channel MCH 30MHz~1GHz



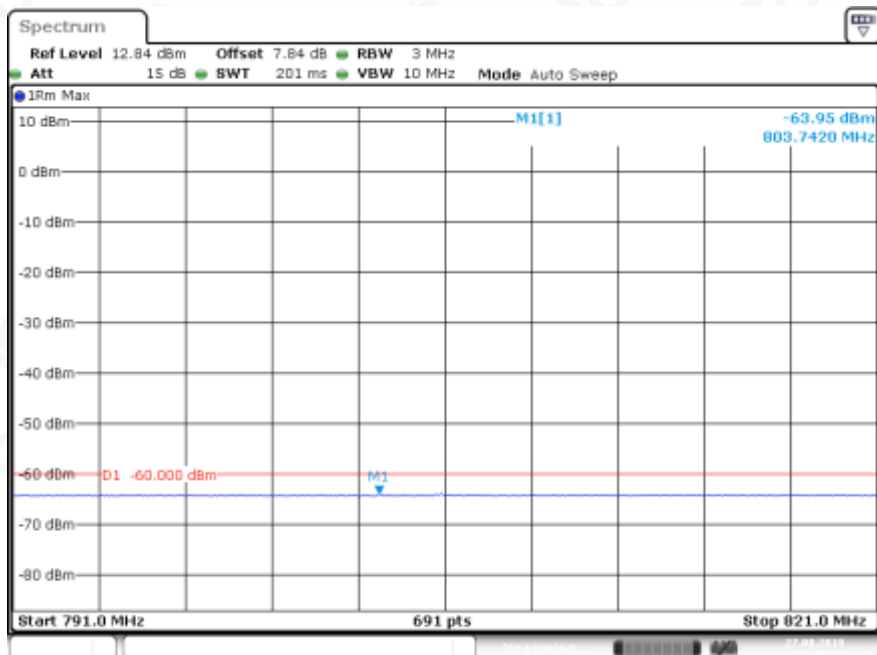
Date: 27.AUG.2019 15:40:14

1GHz~12.75GHz



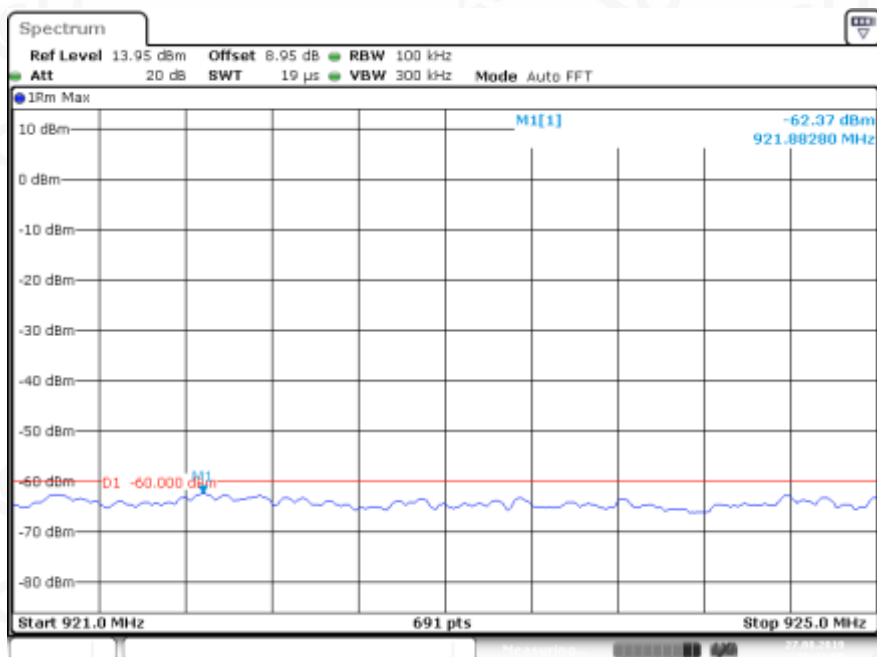
Date: 27.AUG.2019 15:40:33

791MHZ~821MHZ



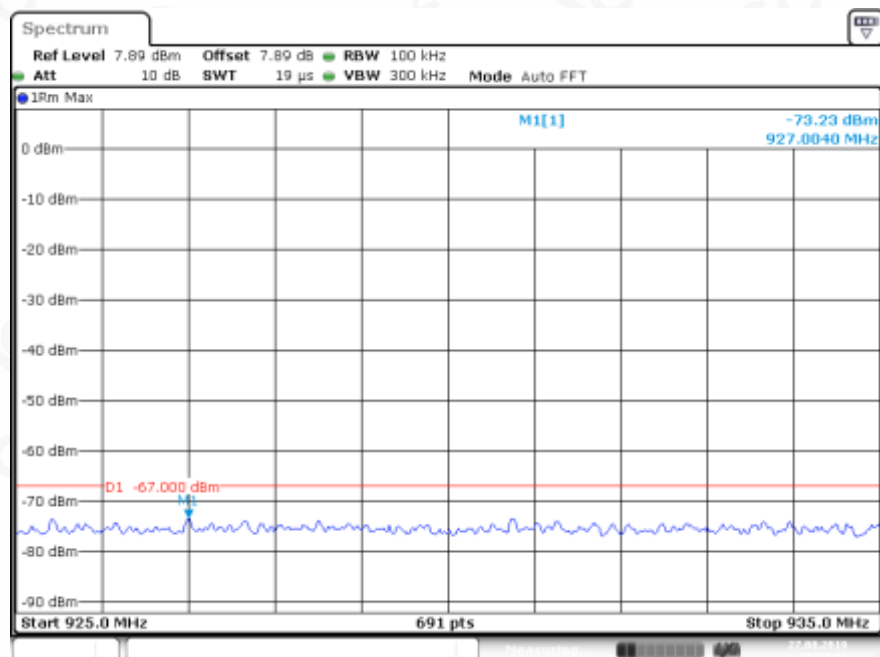
Date: 27.AUG.2019 15:40:52

921MHZ~925MHZ



Date: 27.AUG.2019 15:41:05

925MHZ~935MHZ



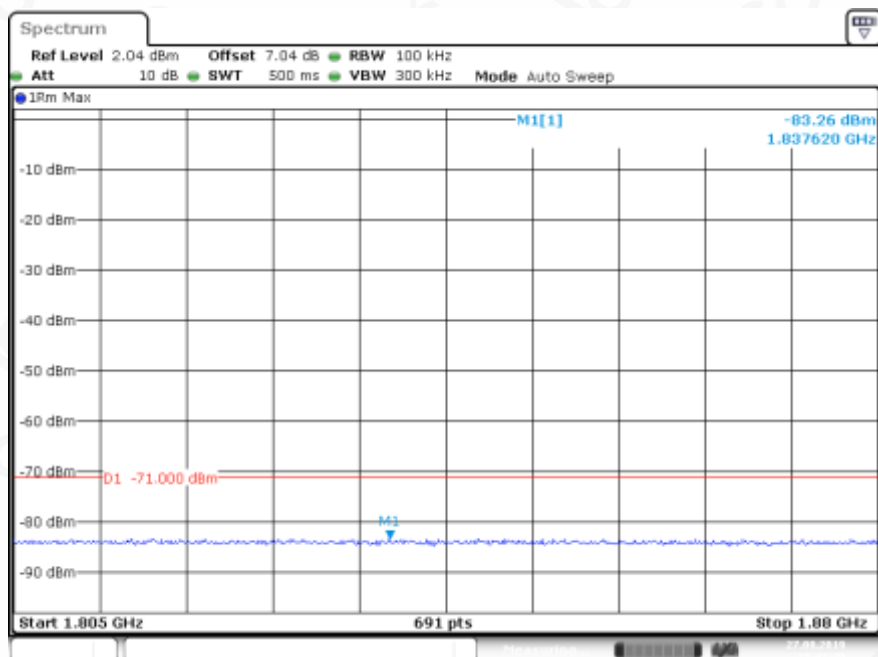
Date: 27.AUG.2019 15:41:24

935MHZ~960MHZ



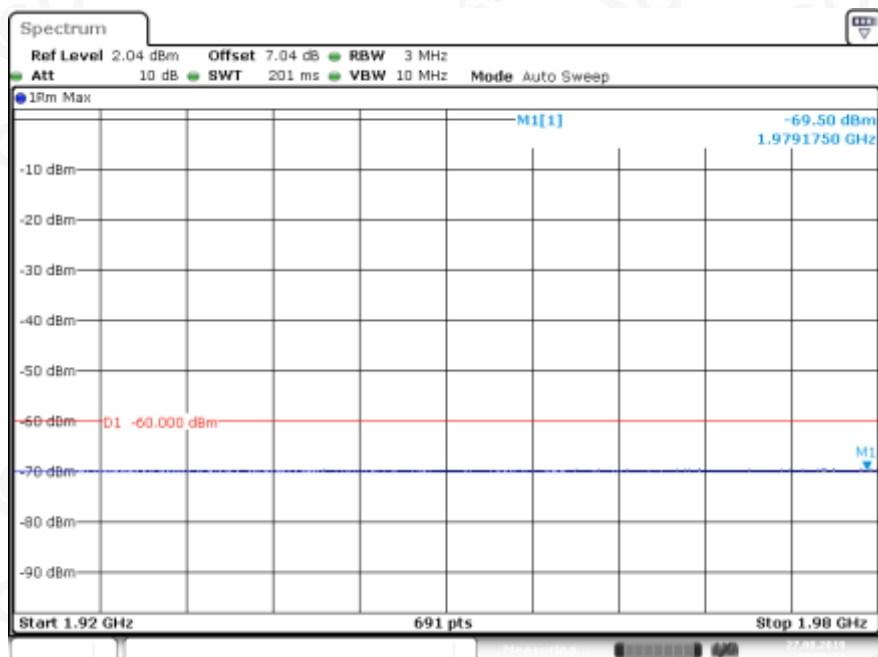
Date: 27.AUG.2019 15:41:37

1805MHZ~1880MHZ



Date: 27.AUG.2019 15:41:50

1920MHZ~1980MHZ



Date: 27.AUG.2019 15:42:15



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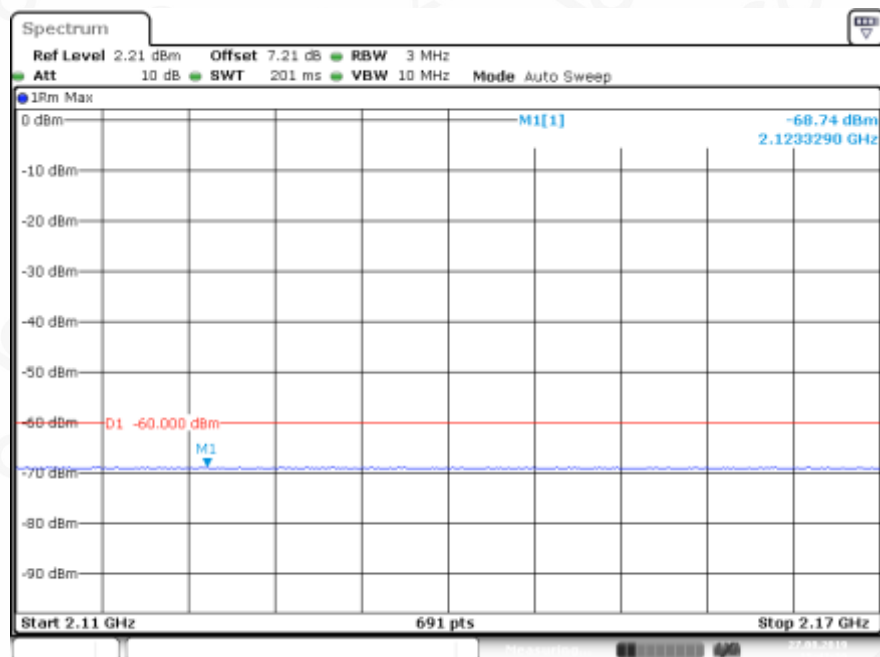
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

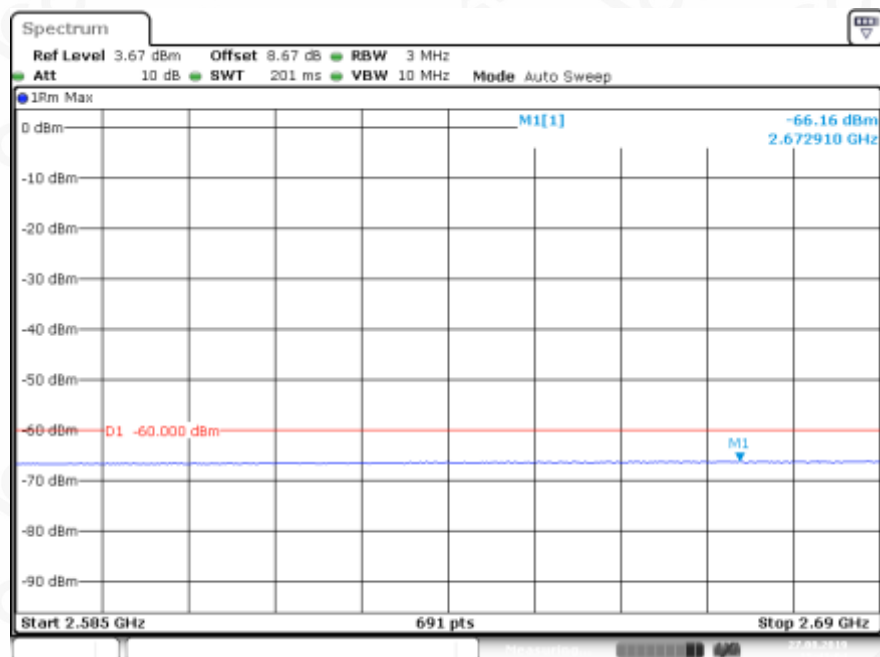
Service Hotline: 400 089 2118

2110MHZ~2170MHZ



Date: 27.AUG.2019 15:42:40

2585MHZ~2690MHZ



Date: 27.AUG.2019 15:43:05



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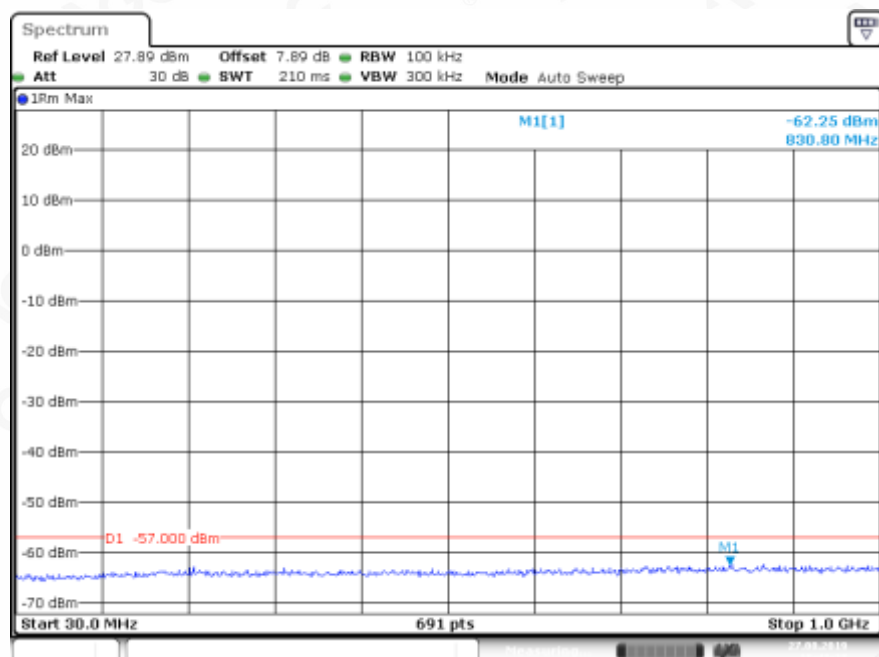
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

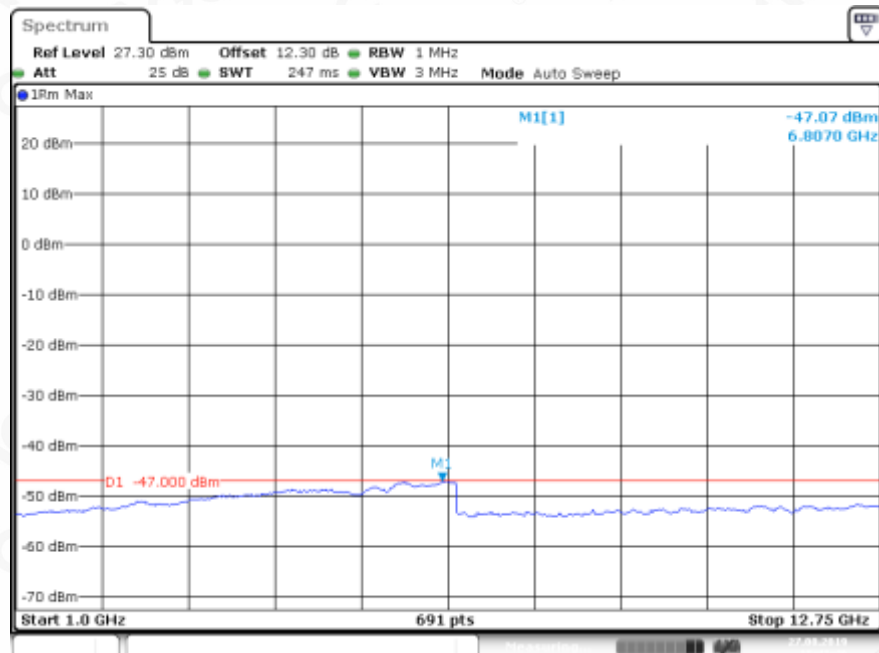
Service Hotline: 400 089 2118

Channel HCH 30MHz~1GHz



Date: 27.AUG.2019 15:43:26

1GHz~12.75GHz



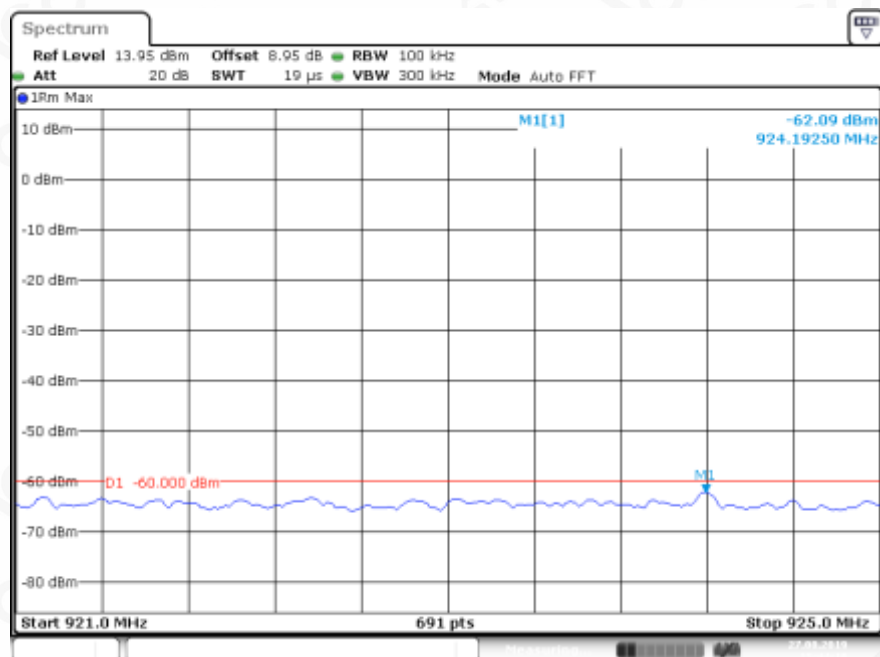
Date: 27.AUG.2019 15:43:45

791MHZ~821MHZ



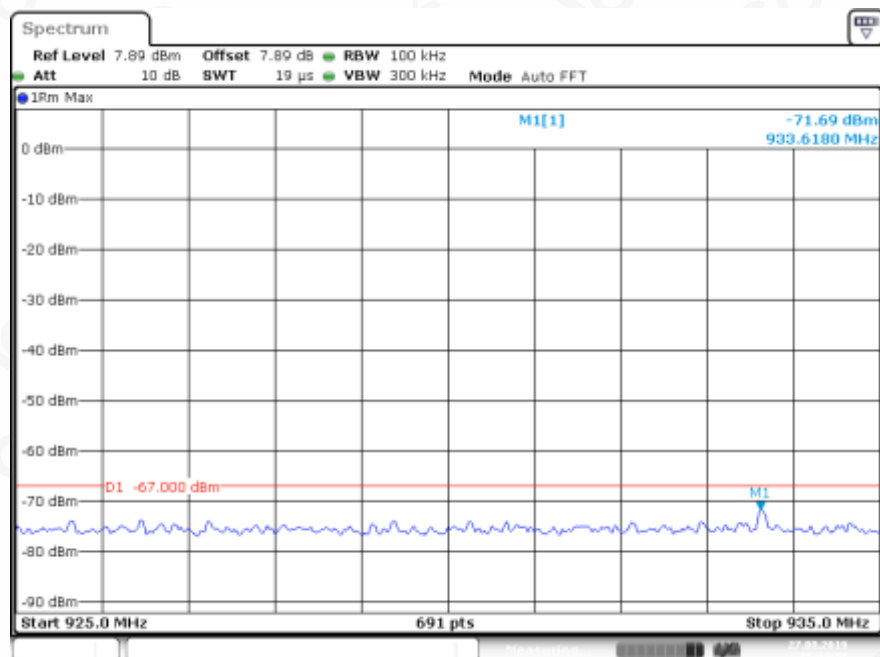
Date: 27.AUG.2019 15:44:04

921MHZ~925MHZ



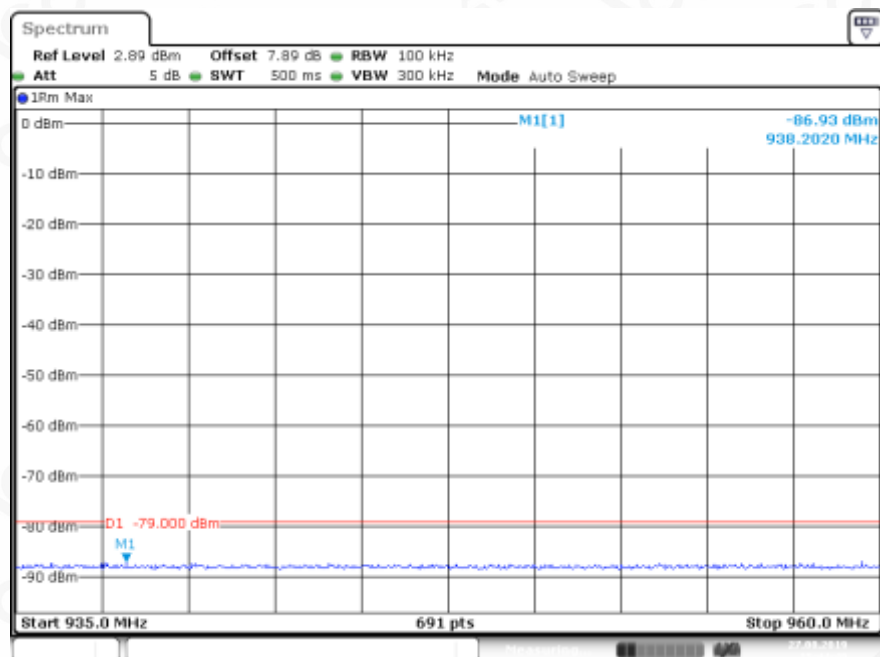
Date: 27.AUG.2019 15:44:17

925MHZ~935MHZ



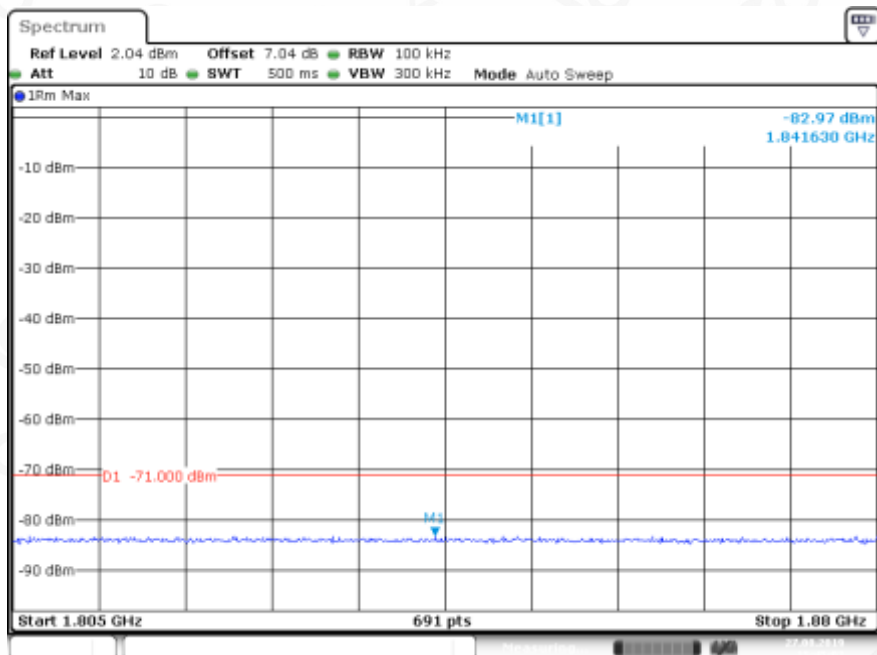
Date: 27.AUG.2019 15:44:36

935MHZ~960MHZ



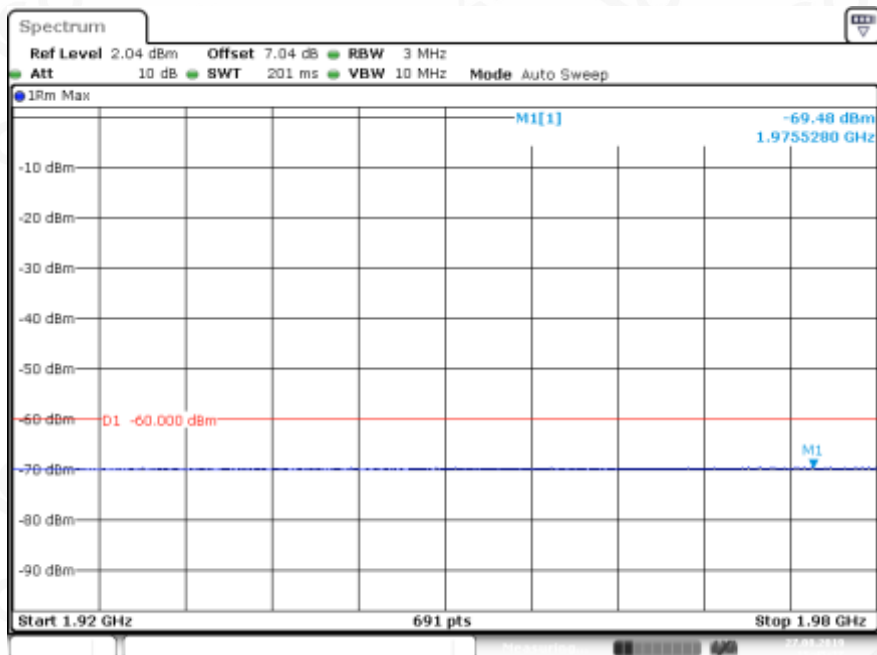
Date: 27.AUG.2019 15:44:49

1805MHZ~1880MHZ



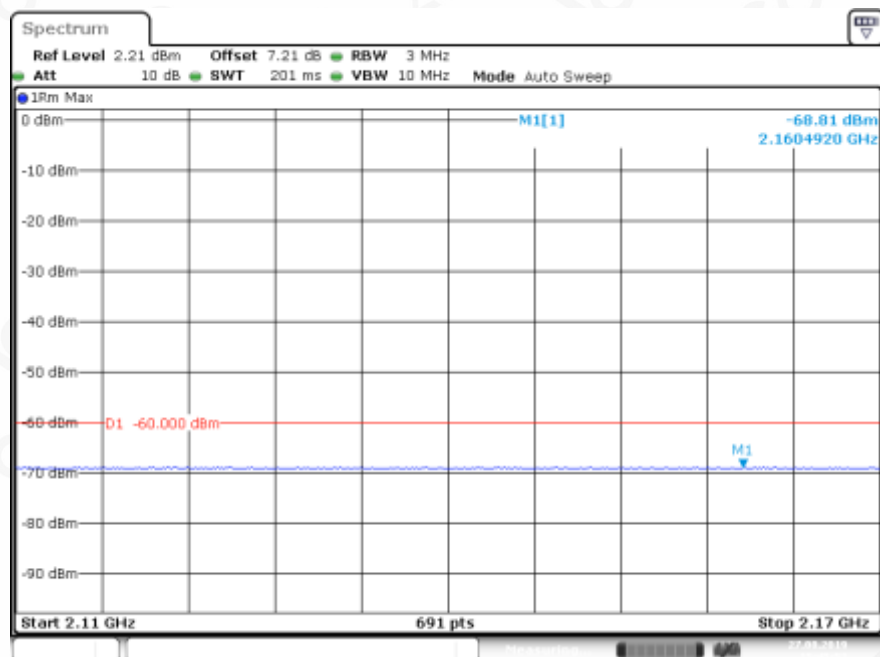
Date: 27.AUG.2019 15:45:02

1920MHZ~1980MHZ



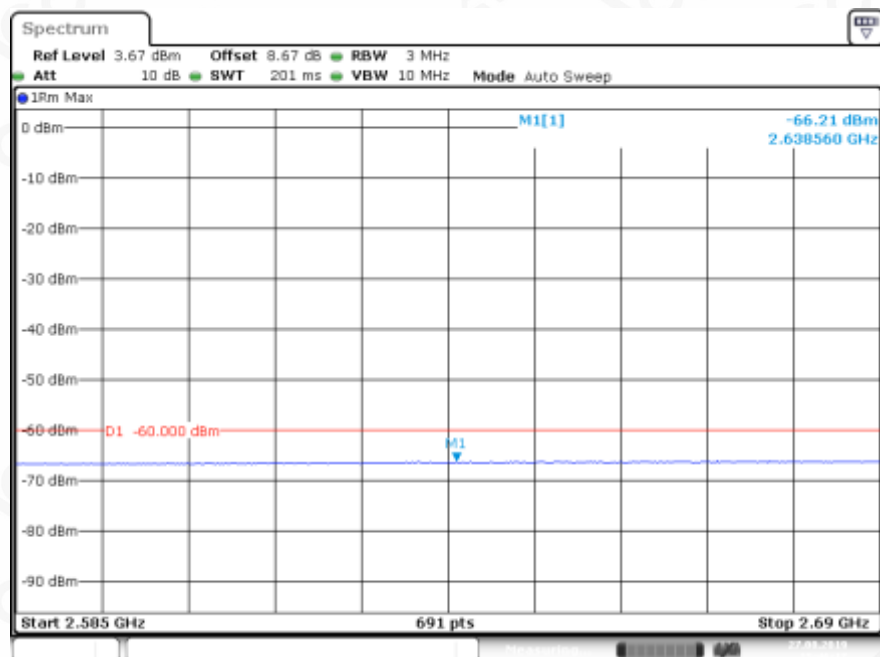
Date: 27.AUG.2019 15:45:27

2110MHZ~2170MHZ



Date: 27.AUG.2019 15:45:52

2585MHZ~2690MHZ

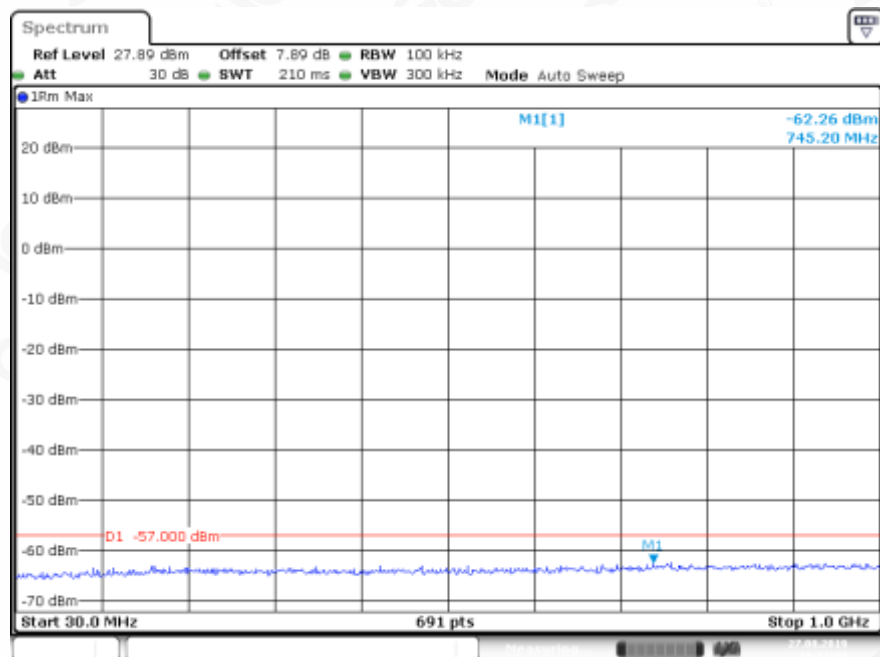


Date: 27.AUG.2019 15:46:17

BAND VIII

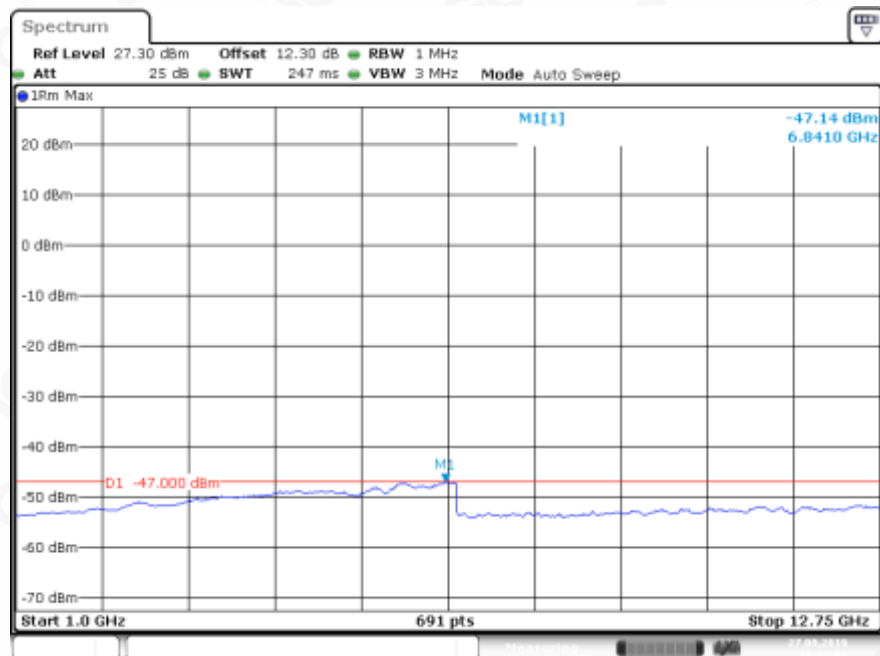
Channel LCH

30MHz~1GHz



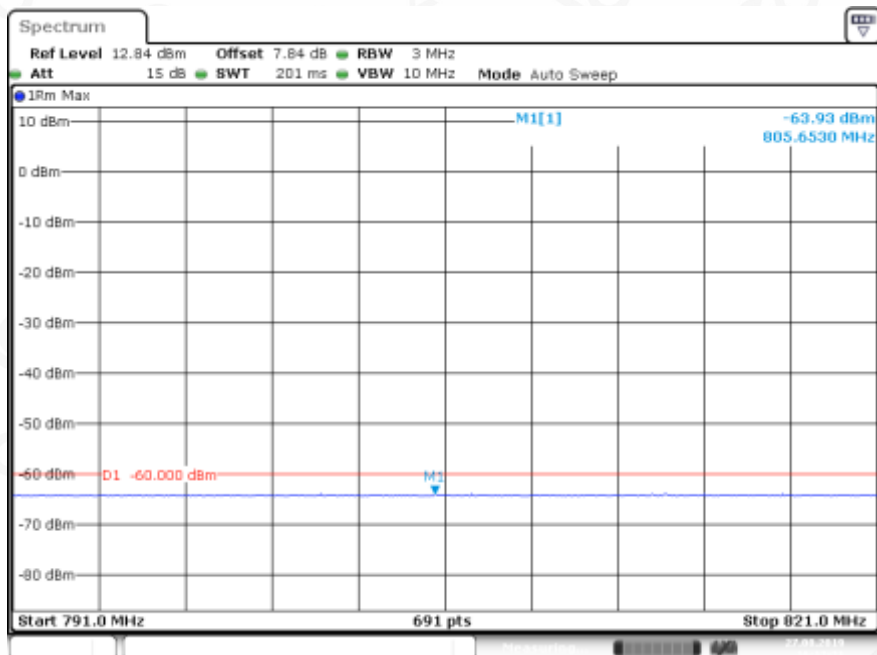
Date: 27.AUG.2019 16:11:43

1GHz~12.75GHz



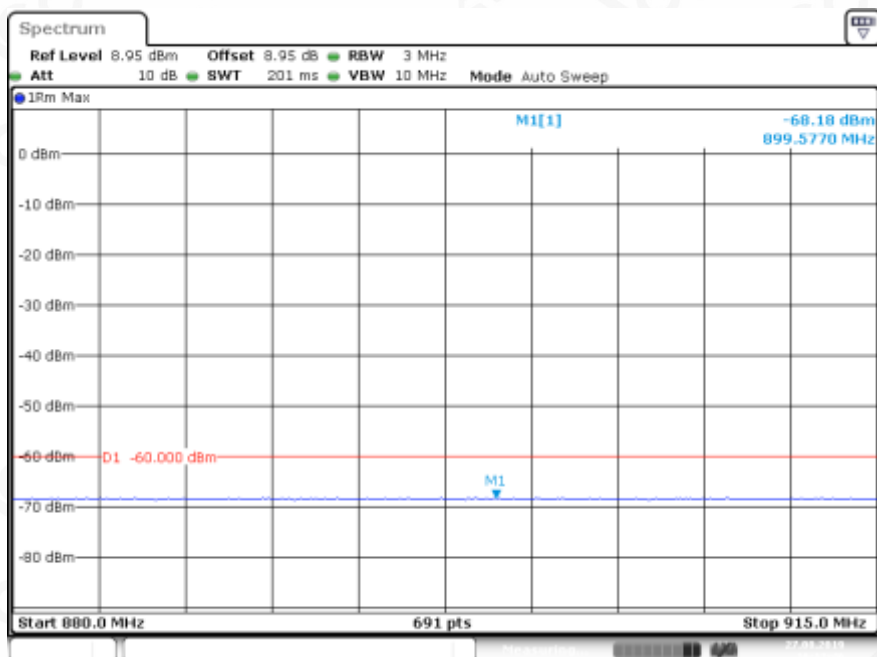
Date: 27.AUG.2019 16:12:02

791MHZ~821MHZ



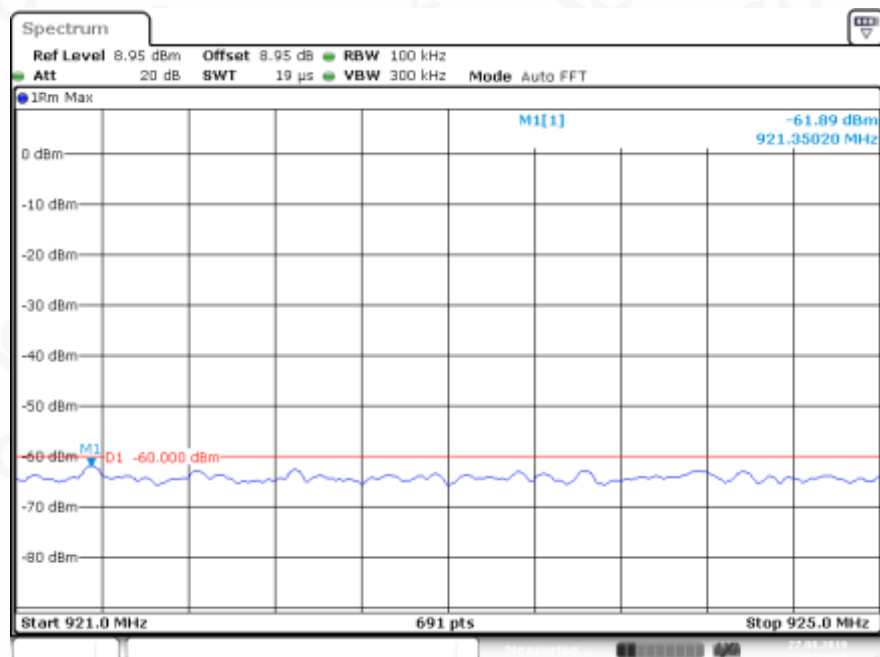
Date: 27.AUG.2019 16:12:21

880MHZ~915MHZ



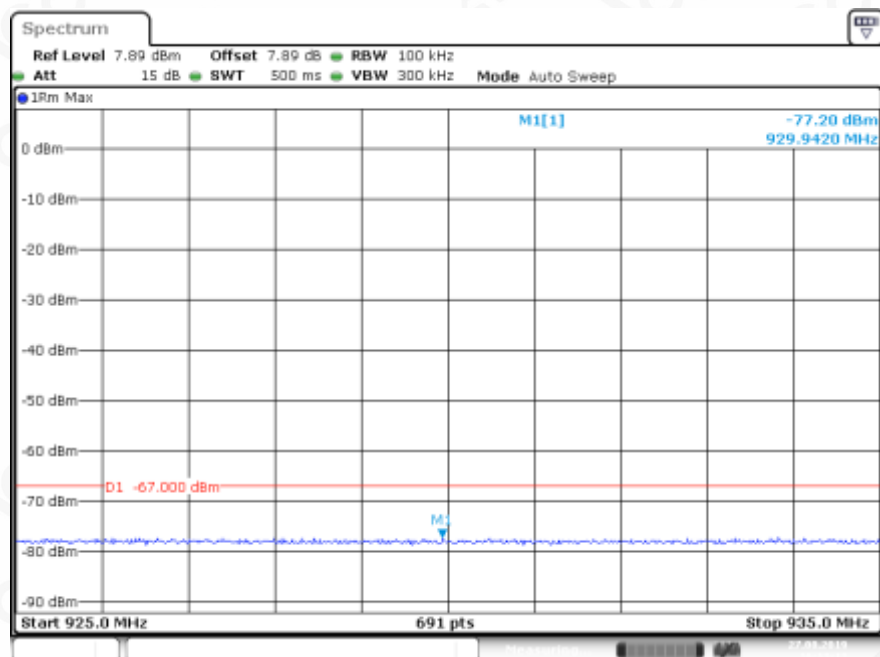
Date: 27.AUG.2019 16:12:46

921MHZ~925MHZ



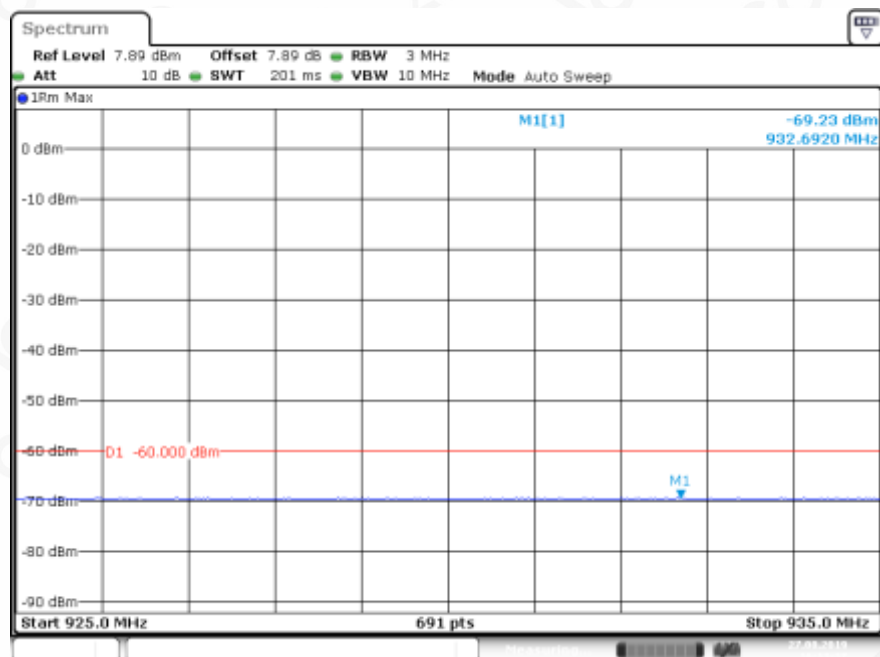
Date: 27.AUG.2019 16:12:59

925MHZ~935MHZ



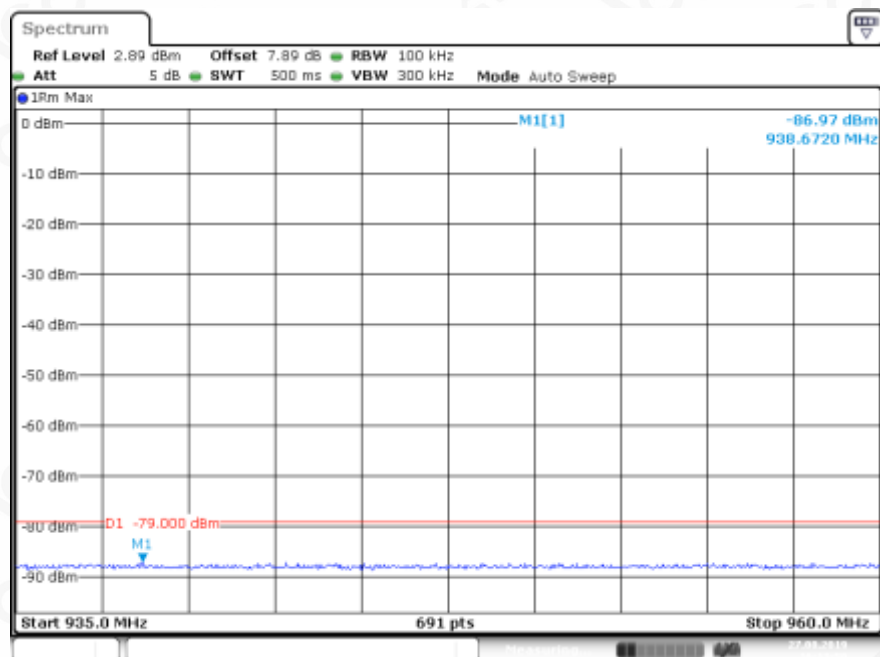
Date: 27.AUG.2019 16:13:12

925MHZ~935MHZ



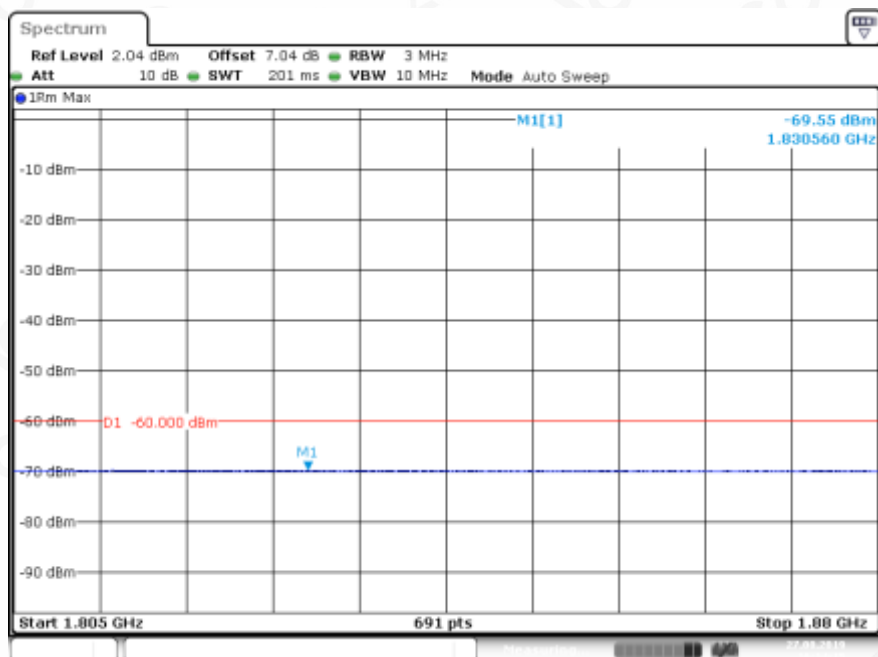
Date: 27.AUG.2019 16:13:37

935MHZ~960MHZ



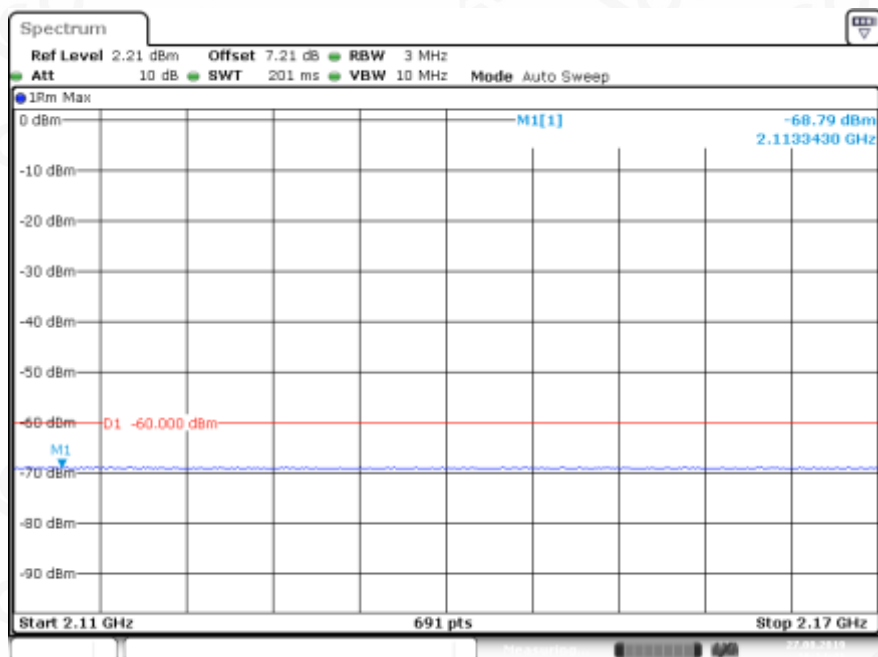
Date: 27.AUG.2019 16:13:50

1805MHZ~1880MHZ



Date: 27.AUG.2019 16:14:15

2110MHZ~2170MHZ



Date: 27.AUG.2019 16:14:40



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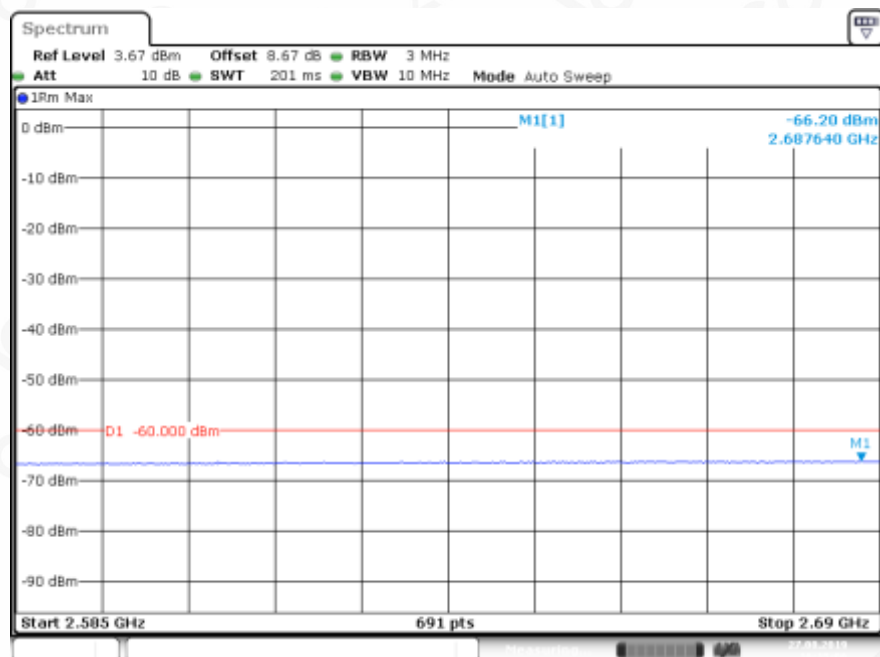
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

Service Hotline: 400 089 2118

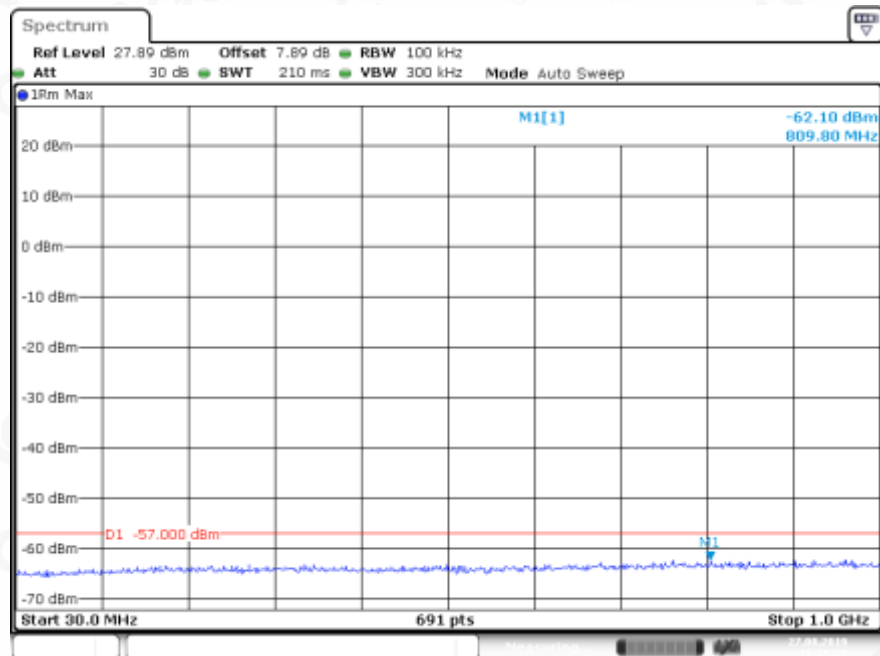
2585MHz~2690MHz



Date: 27.AUG.2019 16:15:05

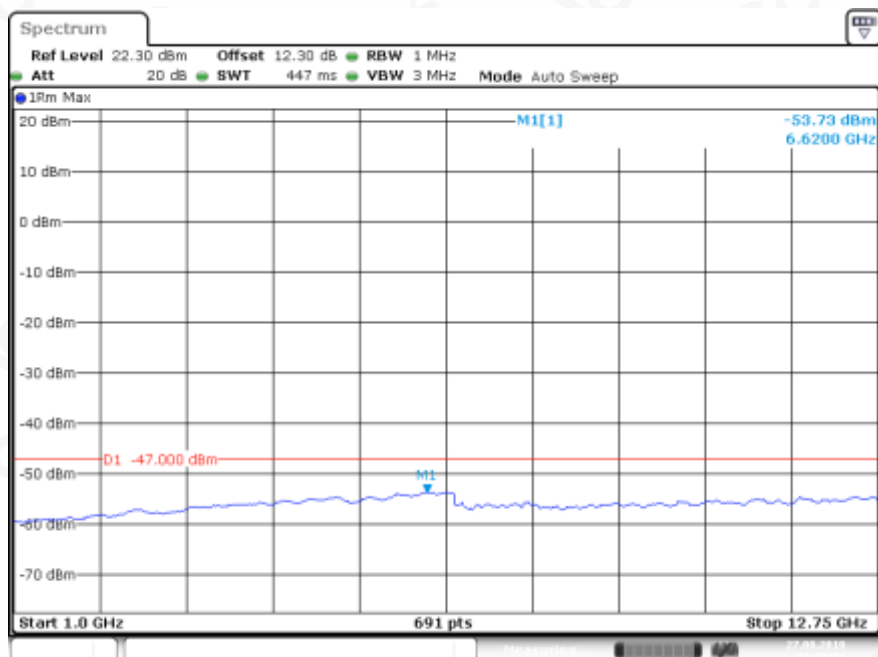
Channel MCH

30MHz~1GHz



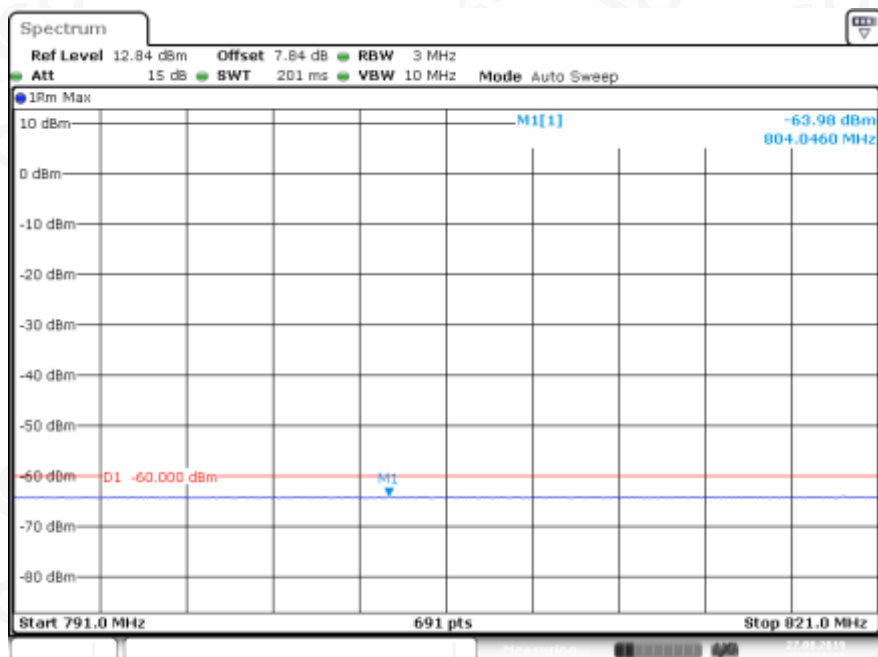
Date: 27.AUG.2019 16:15:27

1GHZ~12.75GHZ



Date: 27.AUG.2019 16:15:52

791MHZ~821MHZ



Date: 27.AUG.2019 16:16:11

880MHz~915MHz



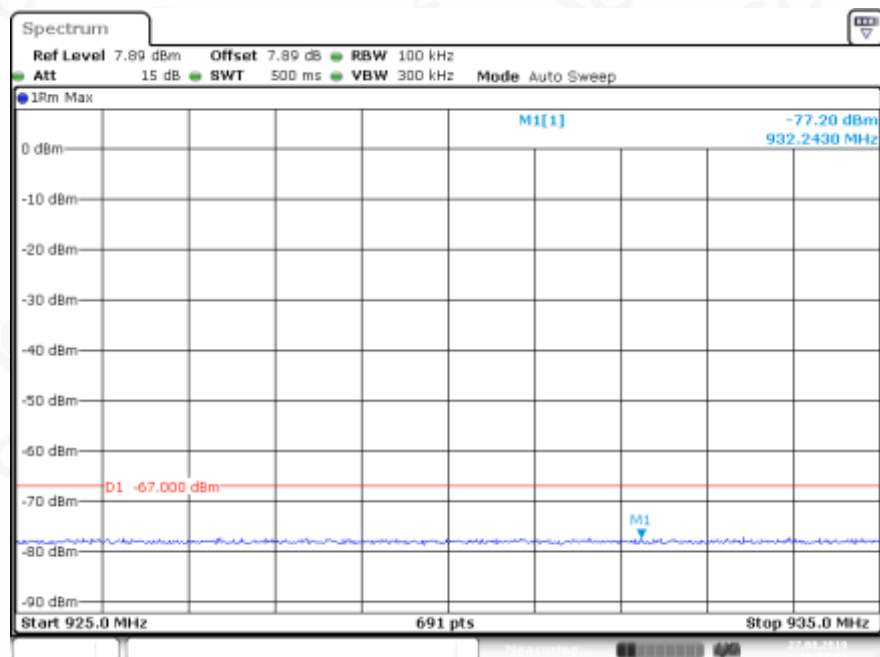
Date: 27.AUG.2019 16:16:36

921MHz~925MHz



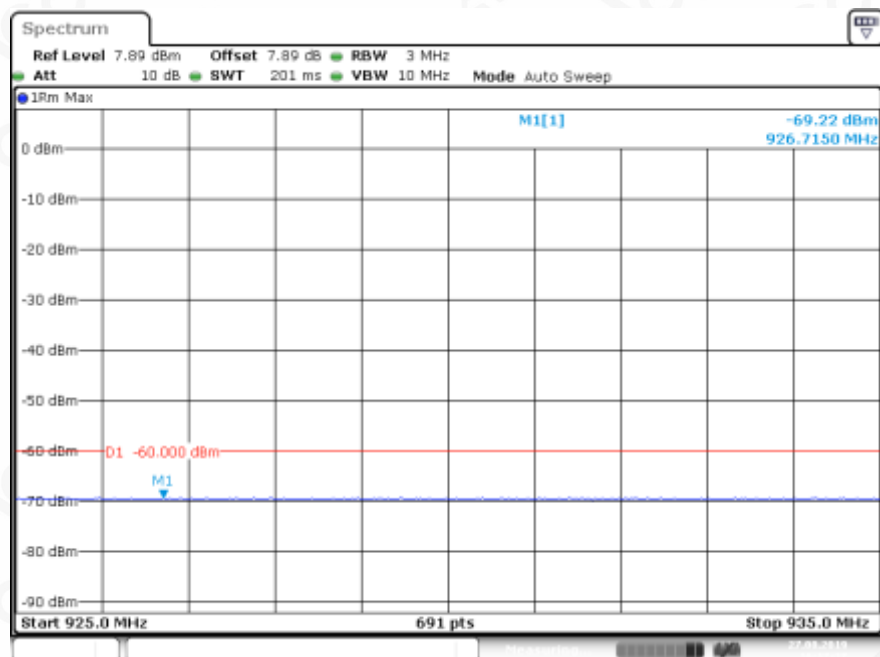
Date: 27.AUG.2019 16:16:49

925MHZ~935MHZ



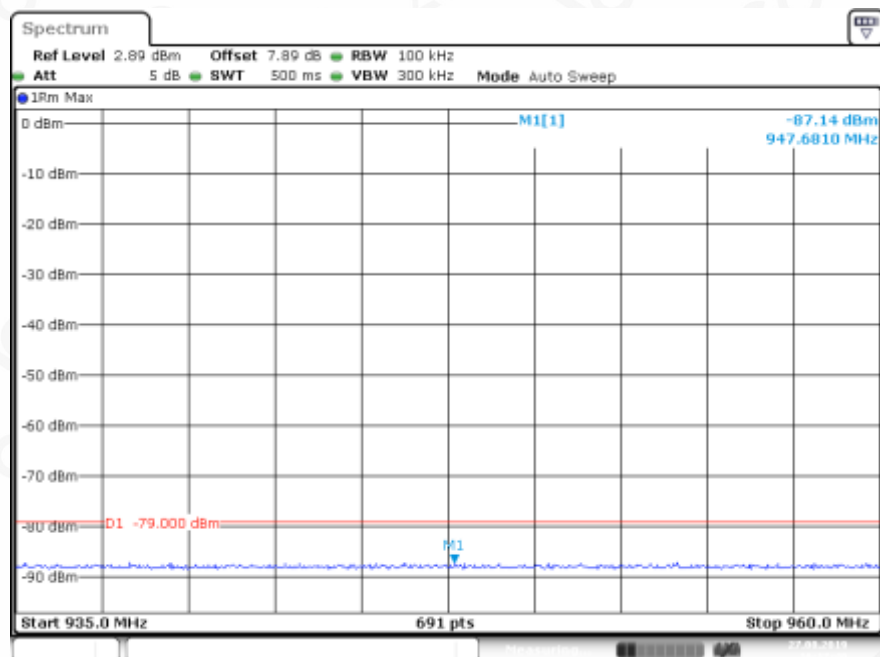
Date: 27.AUG.2019 16:17:02

925MHZ~935MHZ



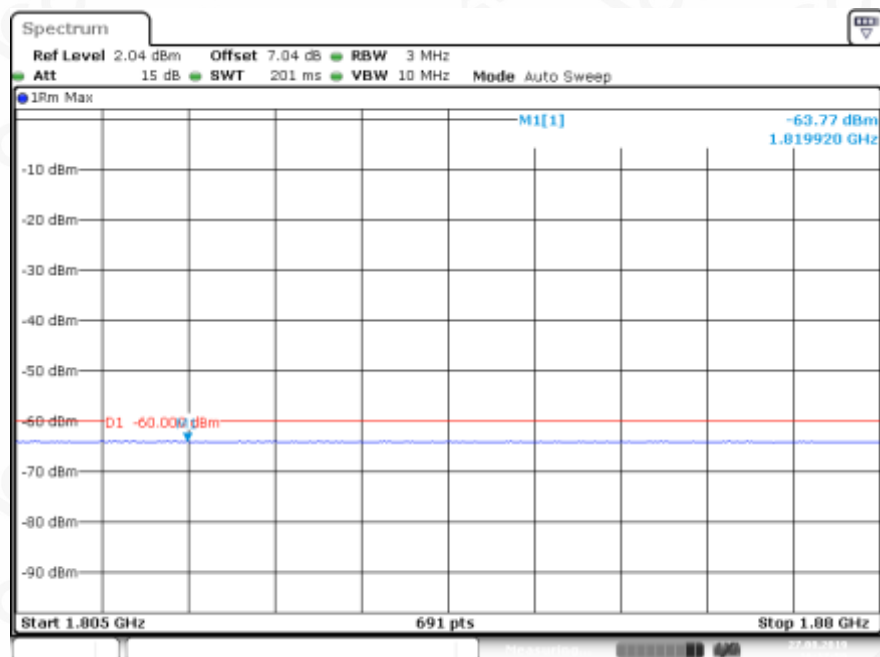
Date: 27.AUG.2019 16:17:27

935MHZ~960MHZ



Date: 27.AUG.2019 16:17:40

1805MHZ~1880MHZ



Date: 27.AUG.2019 16:17:59



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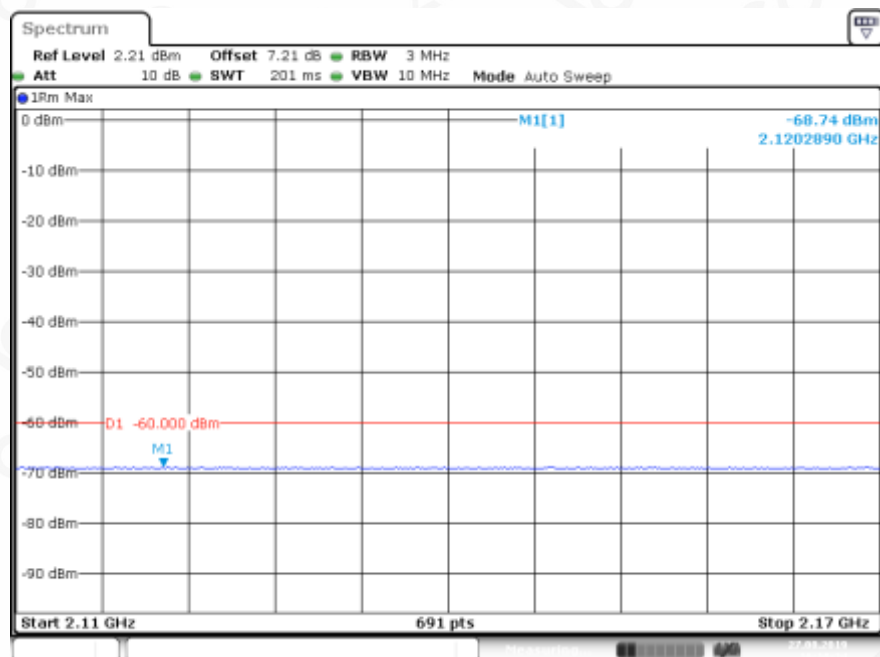
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

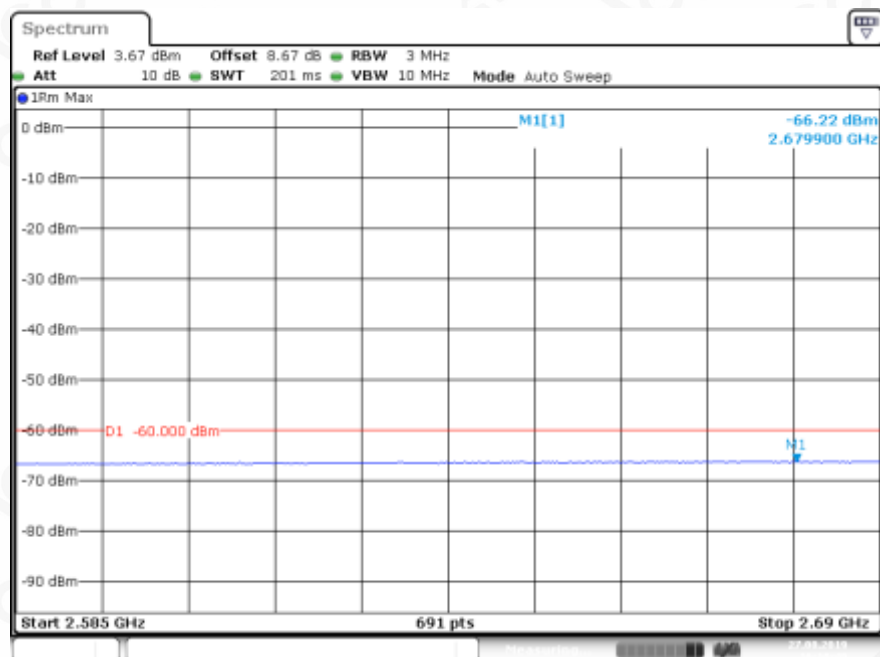
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2110MHZ~2170MHZ



Date: 27.AUG.2019 16:18:24

2585MHZ~2690MHZ



Date: 27.AUG.2019 16:18:49



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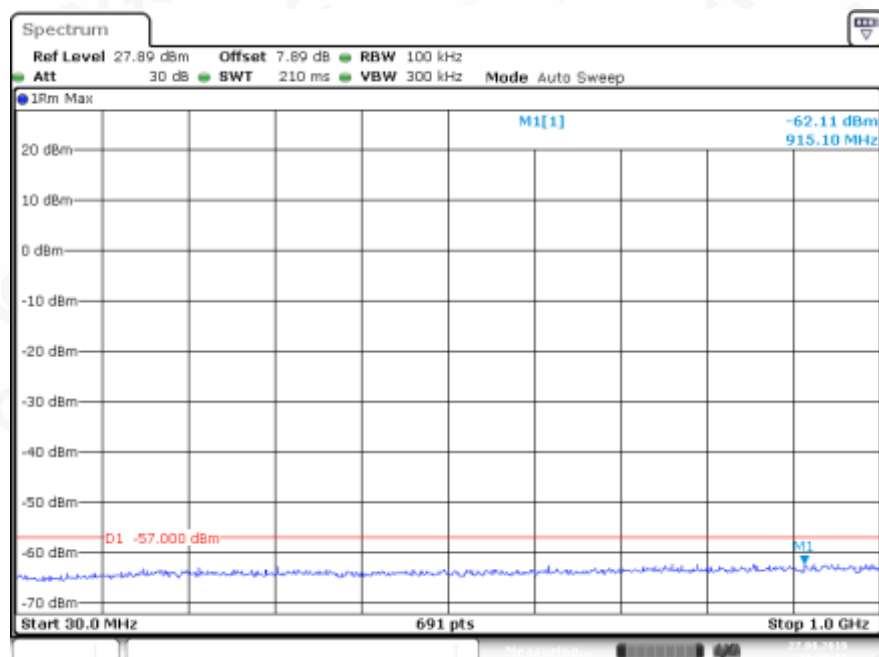
Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755 2523 4088

E-mail: agc@agc-cert.com

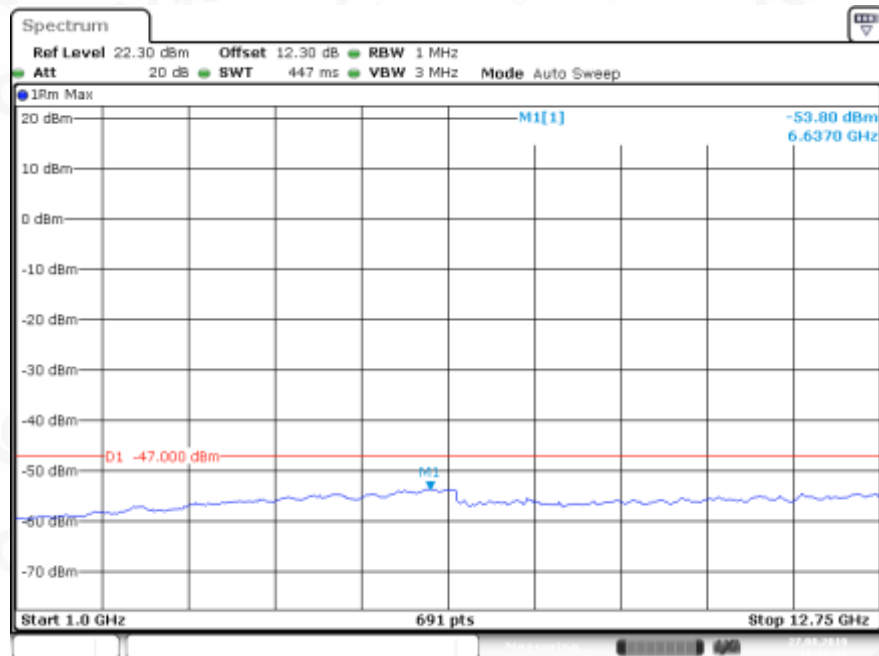
Service Hotline: 400 089 2118

Channel HCH 30MHz~1GHz



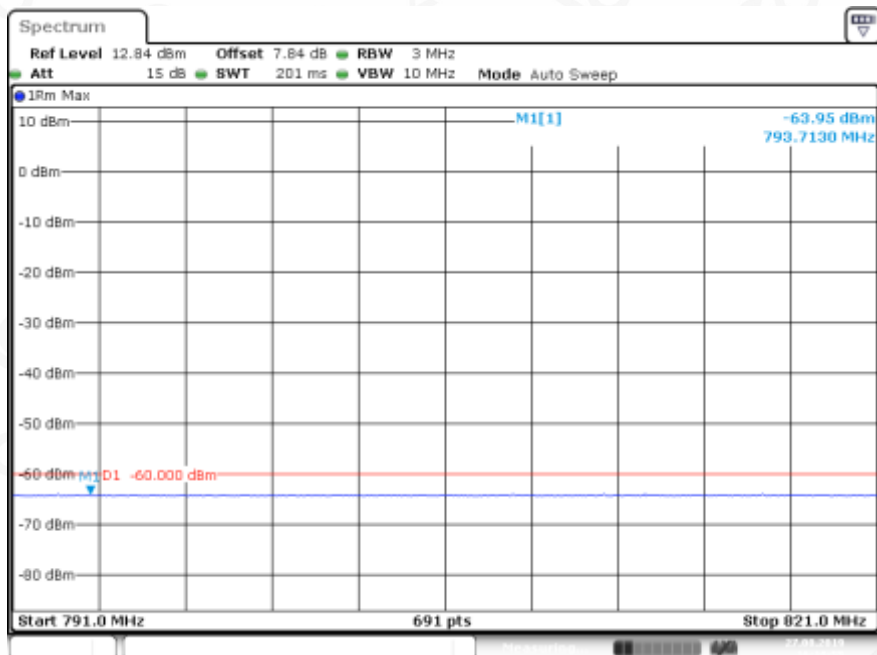
Date: 27.AUG.2019 16:19:10

1GHz~12.75GHz



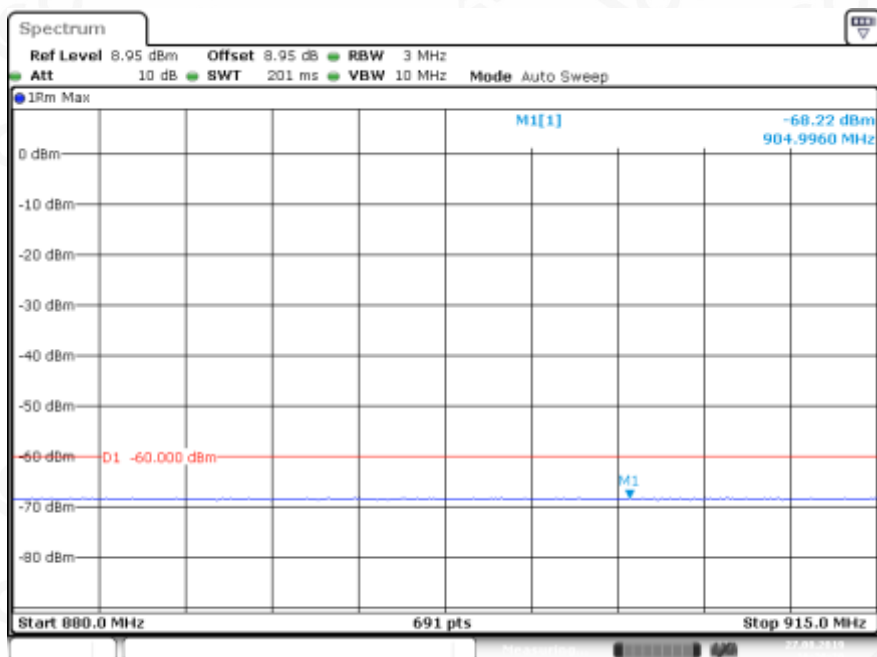
Date: 27.AUG.2019 16:19:36

791MHz~821MHz



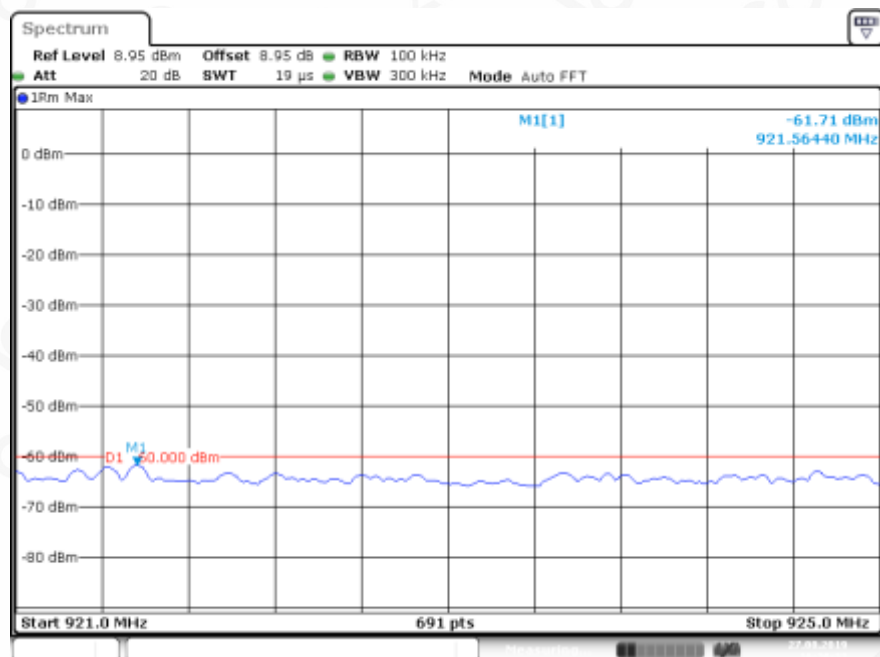
Date: 27.AUG.2019 16:19:55

880MHz~915MHz



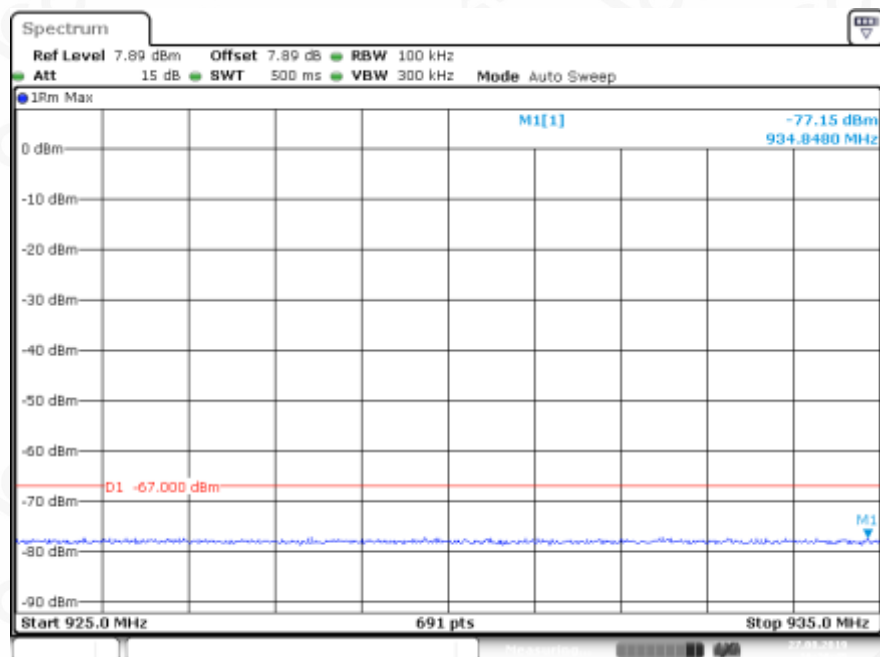
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921MHZ~925MHZ



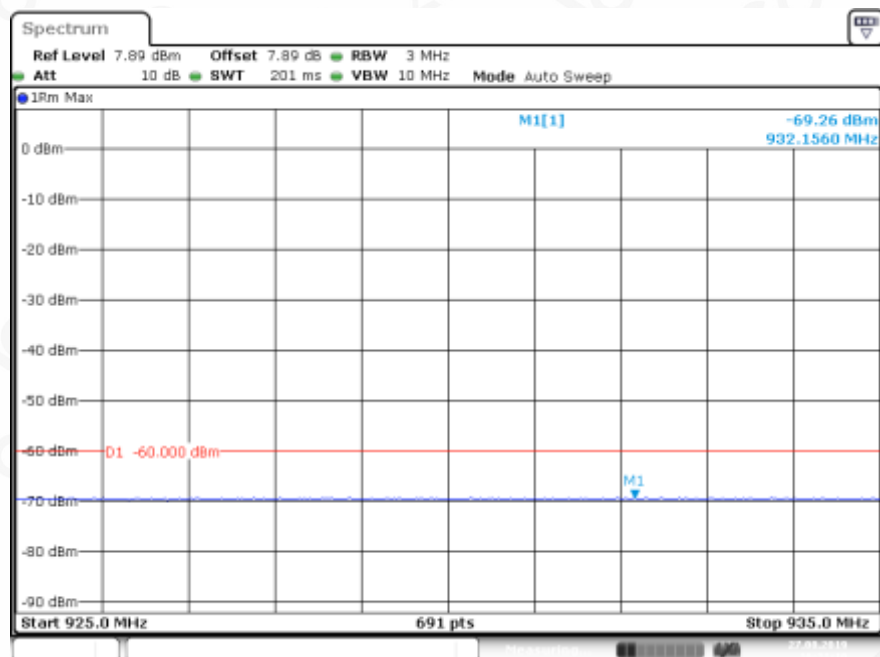
Date: 27.AUG.2019 16:20:33

925MHZ~935MHZ



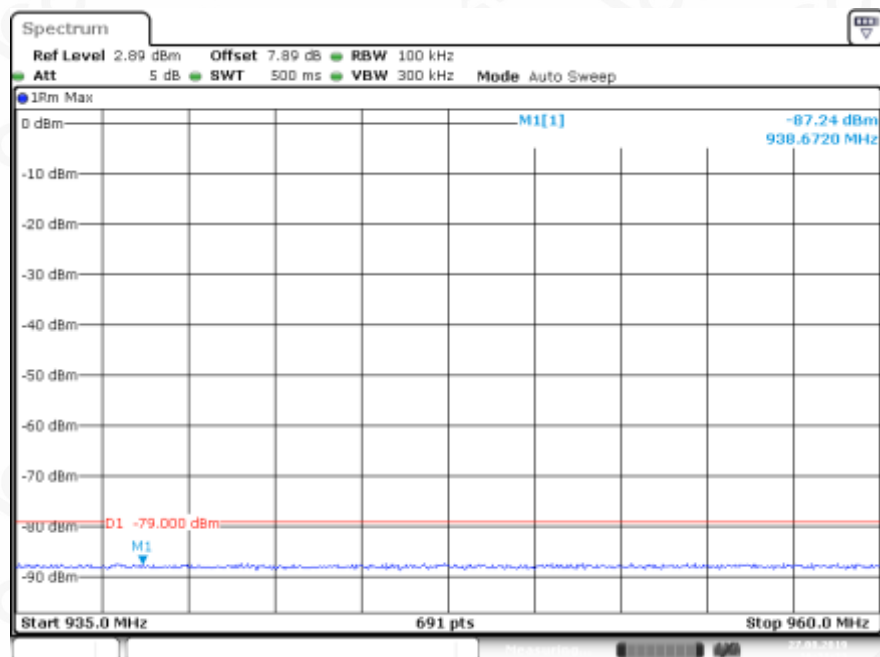
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925MHZ~935MHZ



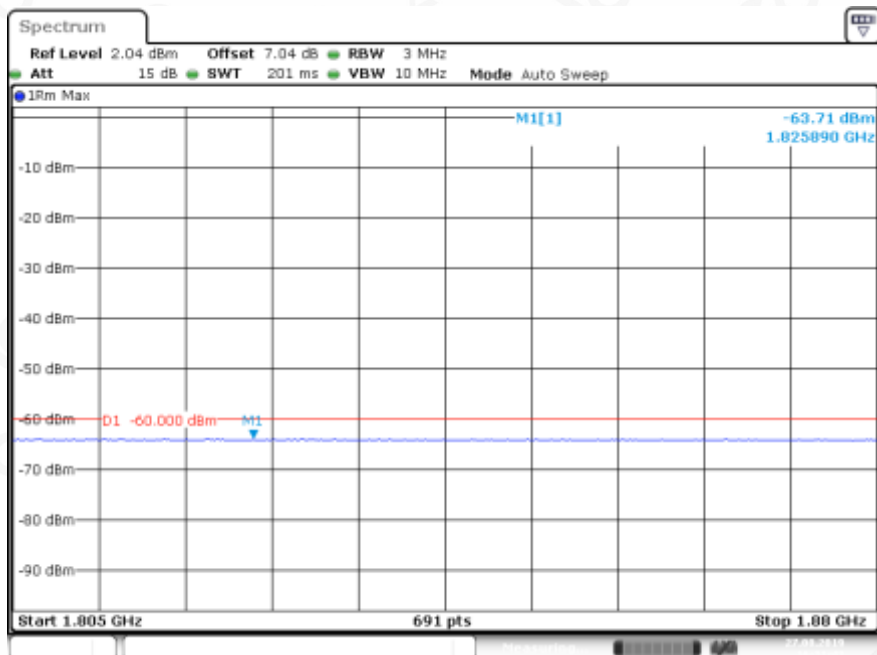
Date: 27.AUG.2019 16:21:10

935MHZ~960MHZ



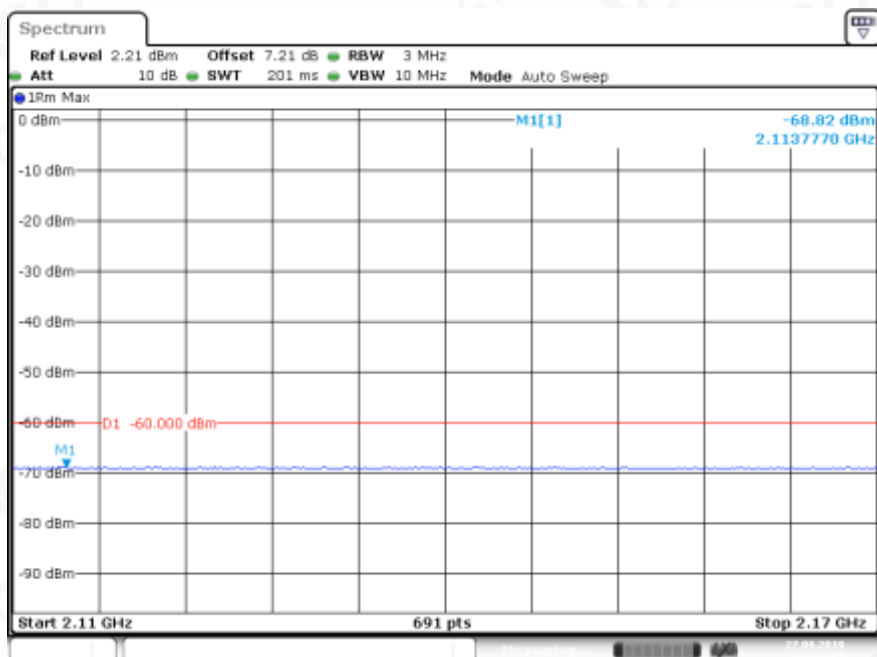
Date: 27.AUG.2019 16:21:23

1805MHz~1880MHz



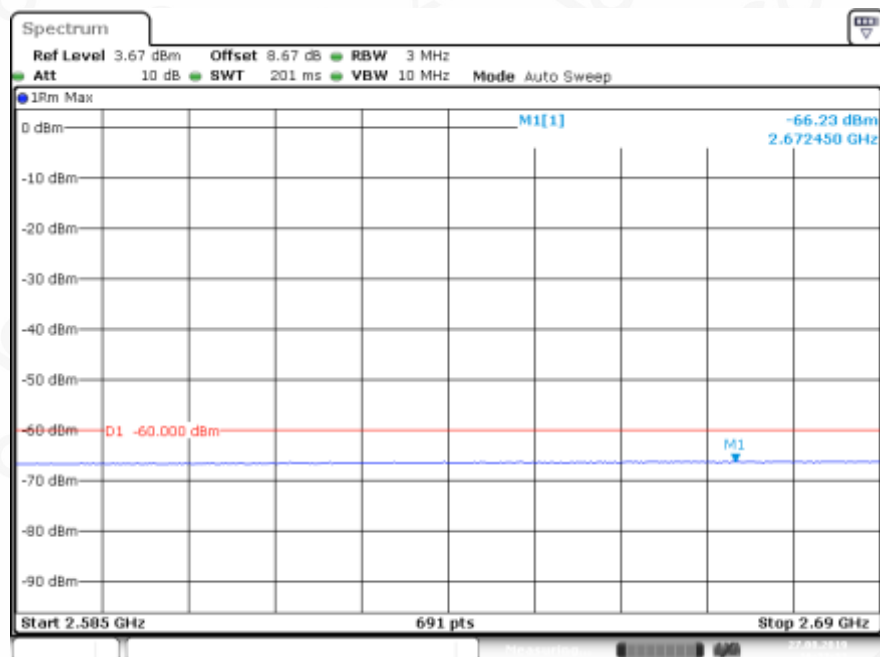
Date: 27.AUG.2019 16:21:42

2110MHz~2170MHz



Date: 27.AUG.2019 16:22:07

2585MHZ~2690MHZ



Date: 27.AUG.2019 16:22:33



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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
Fu1 (offset)	10	-10	MHz
Fu2 (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
Fu1 (offset)	10	-10	MHz
Fu2 (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 (For Fuw offset 10 MHz)	-44 (For Fuw offset 10 MHz)
UE Transmitted mean power	dBm	20 dBm	
Fuw	MHz	$2102.4 \leq f \leq 2177.6$	$2095 \leq f \leq 2185$
BER	%	0	0
Result		Pass	Pass

WCDMA Band VIII			
Parameter	Unit	Level	
Blocking mean power (modulated)	dBm	-56 (For Fuw offset 10 MHz)	-44 (For Fuw offset 10 MHz)
UE Transmitted mean power	dBm	20 dBm	
Fuw	MHz	$917.4 \leq f \leq 967.6$	$910 \leq f \leq 975$
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
Fuw	MHz	2050<f <2095 2185<f <2230	2025 <f ≤2050 2230 ≤f <2255	1< f ≤2025 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 < 910 975 < f < 1020	840 < f ≤865 1020 ≤f < 1045	1 < f ≤840 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 loc	-1		dB
loc	-60		dBm
<u>DPDCH Ec</u> lor	-19,6		dB
Result	Pass	Pass	

WCDMA Band VIII			
Parameter	Level		Unit
I or loc	-1		dB
loc	-60		dBm
<u>DPDCH Ec</u> lor	-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	-67.57	-67.97	-68.25	Pass
1 GHz ≤f ≤12.75 GHz	1 MHz	-47	-64.72	-65.03	-65.37	Pass
791 MHz ≤f ≤821 MHz	3.84 MHz	-60	-73.73	-74.16	-74.55	Pass
921 MHz ≤f < 925 MHz	100 kHz	-60	-72.39	-72.91	-73.33	Pass
925 MHz ≤f ≤935 MHz	100 kHz	-67	-80.06	-80.67	-81.22	Pass
935 MHz < f ≤960 MHz	100 kHz	-79	-88.53	-88.92	-89.49	Pass
1805MHz ≤f ≤1880MHz	100 kHz	-60	-71.25	-71.55	-72.14	Pass
1920MHz ≤f ≤1980MHz	3.84 MHz	-60	-71.90	-72.88	-73.56	Pass
2 110 MHz ≤f ≤2170 MHz	3.84 MHz	-60	-71.93	-72.94	-73.68	Pass
2 585 MHz ≤f ≤2690 MHz	3.84 MHz	-60	-72.65	-73.53	-74.19	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	-66.63	-67.03	-67.31	Pass
1 GHz ≤f ≤12.75 GHz	1 MHz	-47	-63.77	-64.08	-64.42	Pass
791 MHz ≤f ≤821 MHz	3.84 MHz	-60	-73.06	-73.49	-73.88	Pass
921 MHz ≤f < 925 MHz	100 kHz	-60	-71.74	-72.26	-72.68	Pass
925 MHz ≤f ≤935 MHz	100 kHz	-67	-79.55	-80.16	-80.71	Pass
935 MHz < f ≤960 MHz	100 kHz	-79	-87.99	-88.38	-88.95	Pass
1805MHz ≤f ≤1880MHz	100 kHz	-60	-70.63	-70.93	-71.52	Pass
1920MHz ≤f ≤1980MHz	3.84 MHz	-60	-71.63	-72.61	-73.29	Pass
2 110 MHz ≤f ≤2170 MHz	3.84 MHz	-60	-71.98	-72.99	-73.73	Pass
2 585 MHz ≤f ≤2690 MHz	3.84 MHz	-60	-72.55	-73.43	-74.09	Pass



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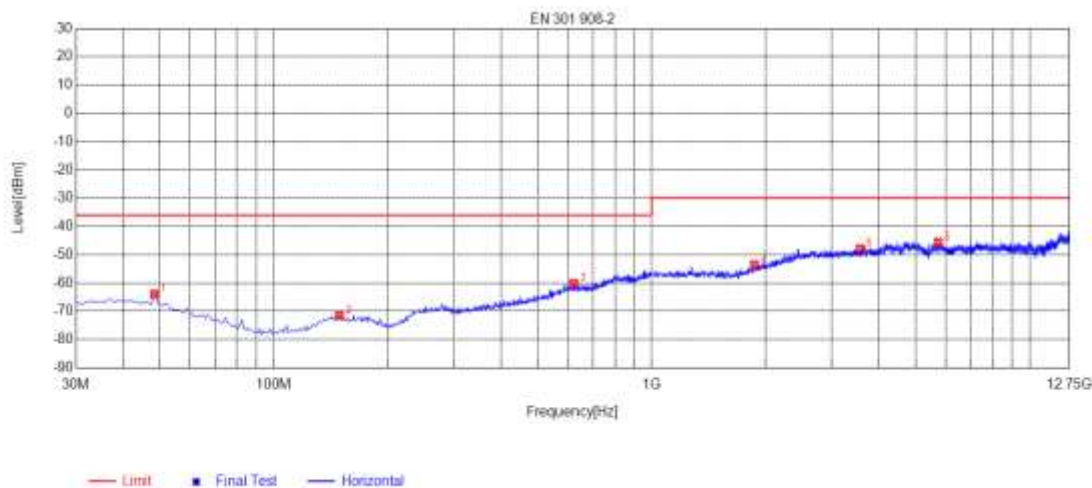
Tel: +86-755 2523 4088

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Service Hotline: 400 089 2118

Appendix T. Radiated spurious emissions test result

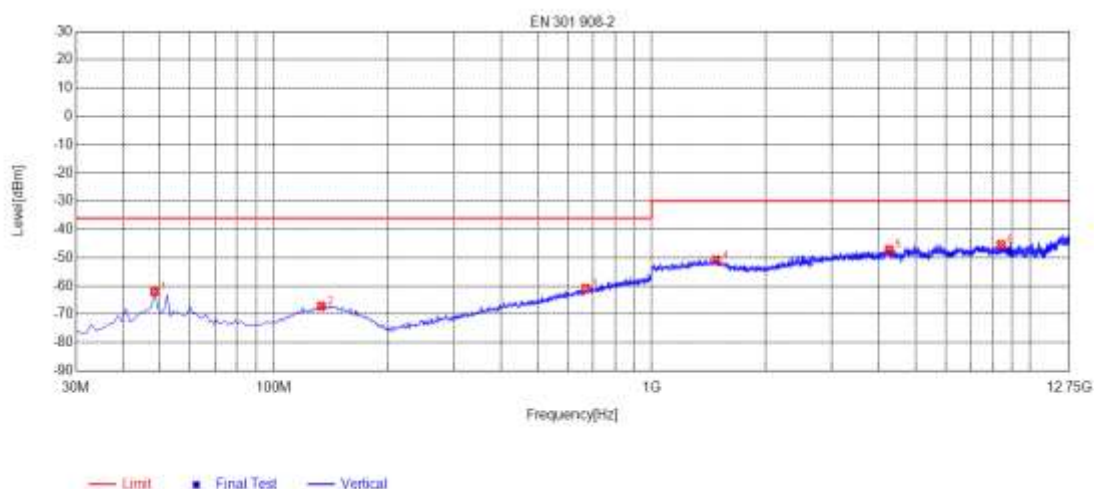
RADIATED SPURIOUS EMISSIONS UMTS BAND I- HORIZONTAL



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	48.4300	-97.81	-63.94	-36.00	27.94	33.87	121	Horizontal
2	149.3100	-100.81	-71.46	-36.00	35.46	29.35	28	Horizontal
3	622.6700	-100.03	-60.12	-36.00	24.12	39.91	10	Horizontal
4	1869.6739	-53.14	-53.58	-30.00	23.58	-0.44	360	Horizontal
5	3564.3629	-54.25	-47.87	-30.00	17.87	6.38	264	Horizontal
6	5729.1458	-55.96	-45.64	-30.00	15.64	10.32	180	Horizontal



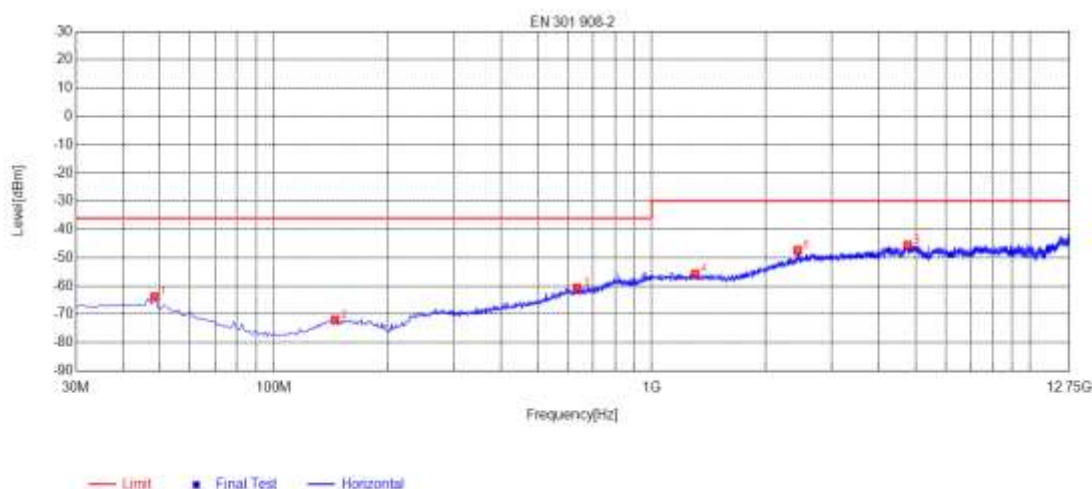
RADIATED SPURIOUS EMISSIONS UMTS BAND I-VERTICAL



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	48.4300	-91.50	-61.95	-36.00	25.95	29.55	300	Vertical
2	133.7900	-101.11	-67.14	-36.00	31.14	33.97	55	Vertical
3	668.2600	-100.83	-60.92	-36.00	24.92	39.91	266	Vertical
4	1481.8464	-52.83	-50.79	-30.00	20.79	2.04	292	Vertical
5	4245.9992	-54.84	-47.17	-30.00	17.17	7.67	0	Vertical
6	8399.2799	-58.38	-45.40	-30.00	15.40	12.98	334	Vertical



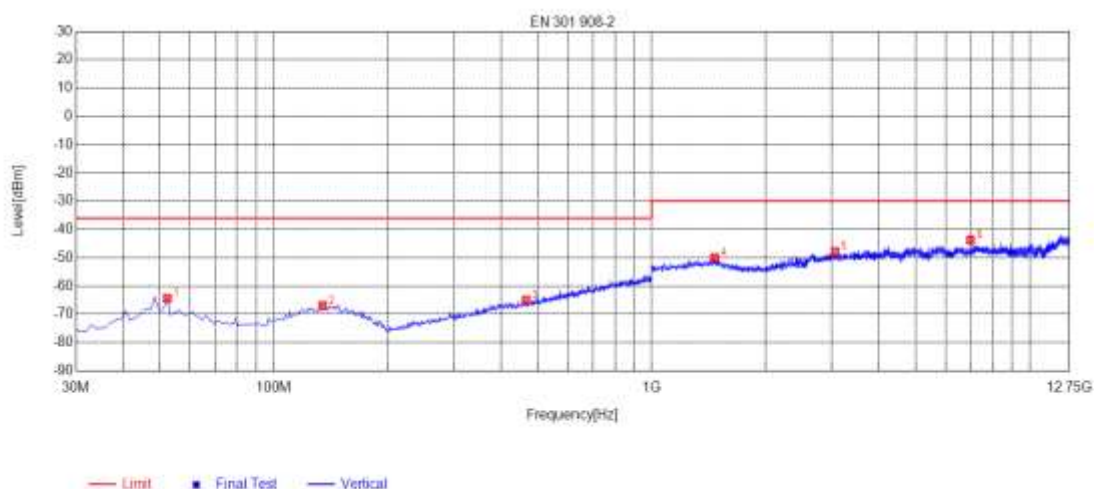
RADIATED SPURIOUS EMISSIONS UMTS BAND VIII- HORIZONTAL



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	48.4300	-97.70	-63.83	-36.00	27.83	33.87	149	Horizontal
2	145.4300	-101.40	-72.04	-36.00	36.04	29.36	157	Horizontal
3	635.2800	-100.71	-60.76	-36.00	24.76	39.95	79	Horizontal
4	1305.5611	-52.11	-55.73	-30.00	25.73	-3.62	321	Horizontal
5	2433.7868	-51.29	-47.37	-30.00	17.37	3.92	270	Horizontal
6	4758.4017	-55.19	-45.58	-30.00	15.58	9.61	287	Horizontal



RADIATED SPURIOUS EMISSIONS UMTS BAND VIII-VERTICAL



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	52.3100	-94.56	-64.39	-36.00	28.39	30.17	54	Vertical
2	134.7600	-100.98	-66.94	-36.00	30.94	34.04	223	Vertical
3	465.5300	-100.93	-65.02	-36.00	29.02	35.91	113	Vertical
4	1467.7435	-51.98	-50.03	-30.00	20.03	1.95	341	Vertical
5	3056.6613	-53.18	-47.87	-30.00	17.87	5.31	359	Vertical
6	6977.2454	-55.93	-43.79	-30.00	13.79	12.14	189	Vertical



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APPENDIX U: PHOTOGRAPHS OF TEST SETUP

RADIATED SPURIOUS EMISSION TEST SETUP



RADIATED SPURIOUS EMISSION-ABOVE 1G TEST SETUP



----END OF REPORT----