



REPORT No.: SZ24110312W04

TEST REPORT

APPLICANT : BLU Products, Inc.

PRODUCT NAME : Smart Phone

MODEL NAME : X5+

BRAND NAME : BLU

FCC ID : YHLBLU5XW

STANDARD(S) : 47 CFR Part 2
47 CFR Part 22 Subpart H
47 CFR Part 24 Subpart E

RECEIPT DATE : 2024-12-17

TEST DATE : 2025-01-02 to 2025-01-14

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Change History		
Version	Date	Reason for change
1.0	2025-02-11	First edition





1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	BLU Products, Inc.
Applicant Address:	8600 NW 36th Street, Suite #300 Miami, FL 33166, USA
Manufacturer:	BLU Products, Inc.
Manufacturer Address:	8600 NW 36th Street, Suite #300 Miami, FL 33166, USA

1.2. Equipment Under Test (EUT) Description

Product Name:	Smart Phone	
Sample No.:	7#, 9#	
Hardware Version:	A507-MB-V3.6F	
Software Version:	BLU_C0270_V14.0.G.05.00_GENERIC_25-12-2024 18:16	
Modulation Type:	GSM/GPRS Mode with GMSK Modulation EDGE Mode with 8PSK Modulation WCDMA Mode with QPSK Modulation HSDPA Mode with QPSK Modulation HSUPA Mode with QPSK Modulation HSUP+ Mode with QPSK Modulation	
Operating Frequency Range:	GSM 850MHz	Tx: 824MHz-849MHz
		Rx: 869MHz-894MHz
	GSM 1900MHz	Tx: 1850MHz-1910MHz
		Rx: 1930MHz-1990MHz
	WCDMA Band V	Tx: 824MHz-849MHz
		Rx: 869MHz-894MHz
	WCDMA Band II	Tx: 1850MHz-1910MHz
		Rx: 1930MHz-1990MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	GSM 850:	0.16dBi
	GSM1900:	2.80dBi
Antenna Gain:	WCDMA Band V:	0.16dBi
	WCDMA Band II:	2.80dBi



Accessory Information:	Battery	
	Brand Name:	BLU
	Model No.:	C775448200L
	Serial No.:	N/A
	Capacity:	2000mAh
	Rated Voltage:	3.8V
	Charge Limit:	4.35V
	Manufacturer:	PHENIX NEW ENERGY(HUIZHOU) CO.,LTD.
	AC Adapter	
	Brand Name:	BLU
	Model No.:	US-DC-0750
	Serial No.:	N/A
	Rated Output:	5.0V $\pm$ 750mA
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.2A
	Manufacturer:	SHENZHEN EAST SUN ELECTRONIC CO.,LTD

Note 1: The transmitter (Tx) frequency arrangement of the Cellular 850MHz band used by the EUT can be represented with the formula $F(n)=824.2+0.2*(n-128)$, $128 \leq n \leq 251$; the lowest, middle, highest channel numbers (ARFCHs) used and tested in this report are separately 128 (824.2MHz), 189 (836.4MHz) and 251 (848.8MHz).

Note 2: The transmitter (Tx) frequency arrangement of the PCS 1900MHz band used by the EUT can be represented with the formula $F(n)=1850.2+0.2*(n-512)$, $512 \leq n \leq 810$; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 512 (1850.2MHz), 661 (1880.0MHz) and 810 (1909.8MHz).

Note 3: The transmitter (Tx) frequency arrangement of the WCDMA Band V used by the EUT can be represented with the formula $F(n)=826.4+0.2*(n-4132)$, $4132 \leq n \leq 4233$; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 4132 (826.4MHz), 4182(836.4MHz) and 4233 (846.6MHz).

Note 4: The transmitter (Tx) frequency arrangement of the WCDMA Band II used by the EUT can be represented with the formula $F(n)=1852.4+0.2*(n-9262)$, $9262 \leq n \leq 9538$; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 9262 (1852.4MHz), 9400 (1880MHz) and 9538 (1907.6MHz).

Note 5: All test modes and data rates were considered and evaluated respectively by performing full test. Test modes are chosen to be reported as the worst case below:

GSM mode and EDGE mode for GSM 850;

GSM mode and EDGE mode for GSM 1900;

WCDMA mode for WCDMA band V;





WCDMA mode for WCDMA band II;

Note 6: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.3. Maximum E.R.P./E.I.R.P. and Emission Designator

Test Mode	Maximum E.R.P./E.I.R.P. (W)	Emission Designator
GSM850(GSM)	1.045	245KGXW
GSM850(EDGE)	0.218	249KG7W
GSM1900(GSM)	1.637	244KGXW
GSM1900(EDGE)	0.653	250KG7W
WCDMA Band V	0.110	4M17F9W
WCDMA Band II	0.321	4M17F9W





1.4. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2, Part 22, Part 24 and Part 27 for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 2 (10-1-12 Edition)	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 (10-1-12 Edition)	Public Mobile Services
3	47 CFR Part 24 (10-1-12 Edition)	Personal Communications Services
4	47 CFR Part 27 (10-1-12 Edition)	Miscellaneous Wireless Communications Services

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination/ Remark
1	2.1046	Conducted RF Output Power	Jan. 13, 2025	Yu Zhizheng	PASS	No deviation
2	24.232(d)	Peak -Average Ratio	Jan. 04&06, 2025	Gan Jing	PASS	No deviation
3	2.1049	Occupied Bandwidth	Jan. 04&06, 2025	Gan Jing	PASS	No deviation
4	2.1055, 22.355, 24.235,	Frequency Stability	Jan. 09, 2025	Gan Jing	PASS	No deviation
5	2.1051, 22.917(a), 24.238(a),	Conducted Out of Band Emissions	Jan. 04&06, 2025	Gan Jing	PASS	No deviation
6	2.1051, 22.917(a), 24.238(a),	Band Edge	Jan. 04&06, 2025	Gan Jing	PASS	No deviation
7	22.913(a), 24.232(c)	Transmitter Radiated Power (E.I.P.R./E.R.P.)	Jan. 14, 2025	Gan Jing	PASS	No deviation
8	2.1051, 22.917(a), 24.238(a),	Radiated Out of Band Emissions	Jan. 02, 2025	Yang Lian	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in KDB 971168 D01 v03r01 and ANSI/TIA-603-E-2016.





Note 2: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 3: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

1.5. Environmental Conditions

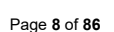
During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106





2.1. Conducted RF Output Power



**2.1.3.Test Results**

GSM850	Average Power (dBm)		
TX Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
GSM 1 Tx slot	32.15	32.17	32.14
GPRS 1 Tx slot	32.13	32.18	32.10
GPRS 2 Tx slots	29.88	29.91	29.85
GPRS 3 Tx slots	27.86	27.88	27.82
GPRS 4 Tx slots	25.65	25.70	25.61
EDGE 1 Tx slot	25.35	25.38	25.32
EDGE 2 Tx slots	23.58	23.62	23.55
EDGE 3 Tx slots	21.37	21.40	21.33
EDGE 4 Tx slots	18.13	18.17	18.09

GSM1900	Average Power (dBm)		
TX Channel	512	661	810
Frequency (MHz)	1850.2	1880	1909.8
GSM 1 Tx slot	29.28	29.32	29.23
GPRS 1 Tx slot	29.32	29.34	29.30
GPRS 2 Tx slots	27.06	27.09	27.02
GPRS 3 Tx slots	25.33	25.38	25.19
GPRS 4 Tx slots	23.12	23.17	23.06
EDGE 1 Tx slot	25.31	25.35	25.18
EDGE 2 Tx slots	24.35	24.40	24.22
EDGE 3 Tx slots	21.37	21.42	21.37
EDGE 4 Tx slots	18.56	18.59	18.49





WCDMA Band V	Average Power (dBm)		
TX Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2Kbps	22.25	22.39	22.31
HSDPA Subtest-1	21.77	21.55	21.40
HSDPA Subtest-2	21.47	21.20	21.29
HSDPA Subtest-3	21.17	20.90	20.92
HSDPA Subtest-4	21.08	20.82	20.88
HSUPA Subtest-1	22.24	22.08	22.22
HSUPA Subtest-2	22.20	22.22	22.16
HSUPA Subtest-3	22.08	22.26	22.20
HSUPA Subtest-4	22.21	22.24	22.13
HSUPA Subtest-5	22.23	22.11	22.20
HSPA+ (16QAM) Subtest-1	22.23	22.13	22.24





WCDMA Band II	Average Power (dBm)		
TX Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2Kbps	22.13	22.26	22.23
HSDPA Subtest-1	21.96	21.98	21.56
HSDPA Subtest-2	21.47	21.64	21.40
HSDPA Subtest-3	20.84	20.81	20.67
HSDPA Subtest-4	21.40	21.47	21.24
HSUPA Subtest-1	21.86	21.89	21.69
HSUPA Subtest-2	21.75	21.87	21.73
HSUPA Subtest-3	21.85	21.92	21.74
HSUPA Subtest-4	21.69	21.86	21.70
HSUPA Subtest-5	21.81	21.85	21.76
HSPA+ (16QAM) Subtest-1	21.95	21.98	21.48



2.2. Peak to Average Ratio

2.2.1. Requirement

According to FCC 24.232(d) and 27.50(d), the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

2.2.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.

2.2.3. Test procedure

1. For GSM/EDGE operating mode:
 - a. Set RBW=1MHz, VBW=3MHz, peak detector in spectrum analyzer.
 - b. Set EUT in maximum output power, and triggered the bust signal.
 - c. Measured respectively the peak level and mean level, and the deviation was recorded as Peak to Average ratio.
2. For UMTS operating mode:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1%.

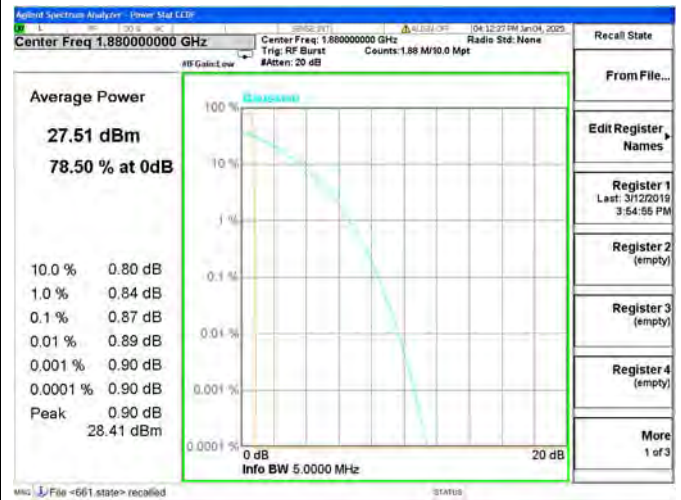
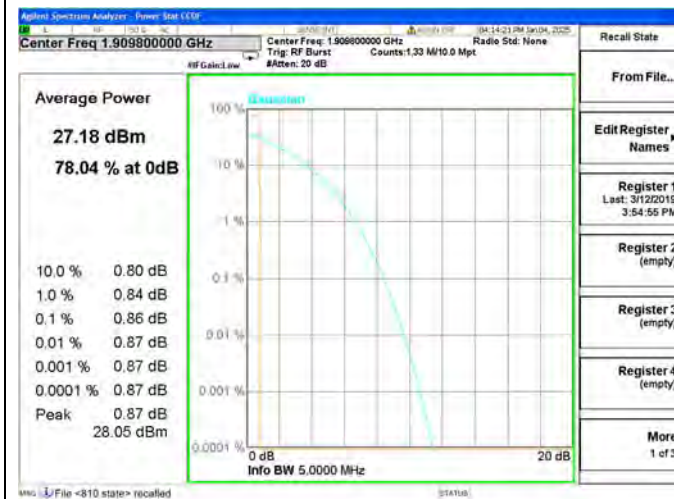


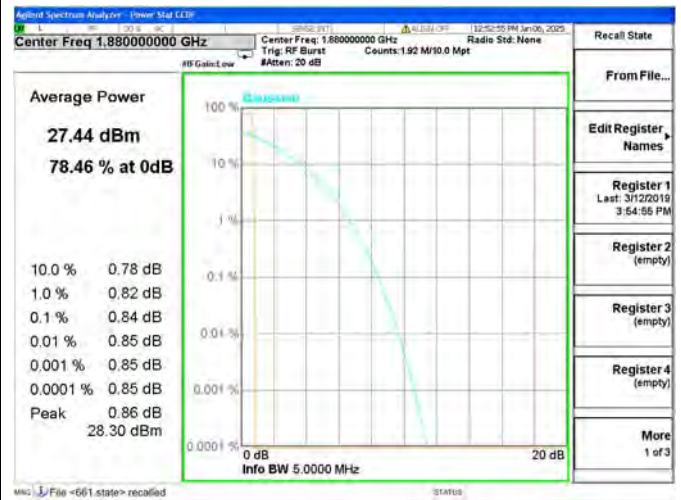
**2.2.4. Test Result****A. Test Verdict:**

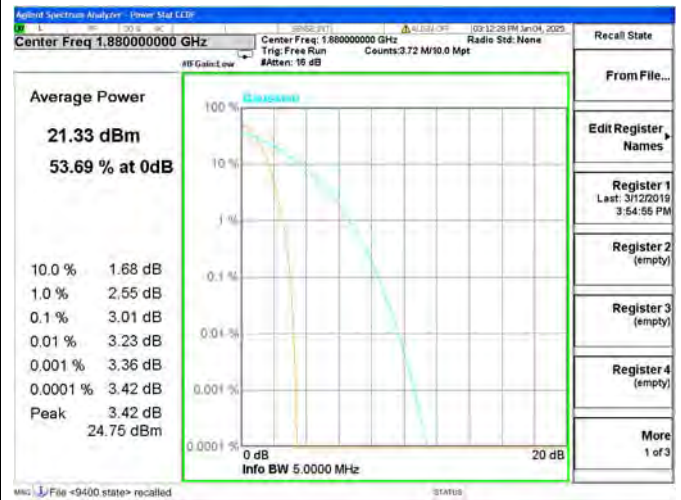
GSM1900					
Mode	Channel	Frequency (MHz)	Peak to Average ratio (dB)	Limit (dB)	Verdict
GSM	512	1850.2	0.78	13	PASS
	661	1880.0	0.87		PASS
	810	1909.8	0.86		PASS
EDGE	512	1850.2	0.80		PASS
	661	1880.0	0.84		PASS
	810	1909.8	0.88		PASS

WCDMA Band II					
Mode	Channel	Frequency (MHz)	Peak to Average ratio (dB)	Limit (dB)	Verdict
WCDMA	9262	1852.4	3.07	13	PASS
	9400	1880.0	3.01		PASS
	9538	1907.6	3.05		PASS



**GSM1900(GSM), CH512, 1850.2MHz****GSM1900(GSM), CH661, 1880.0MHz****GSM1900(GSM), CH810, 1909.8MHz**

**GSM1900(EDGE), CH512, 1850.2MHz****GSM1900(EDGE), CH661, 1880.0MHz****GSM1900(EDGE), CH810, 1909.8MHz**

**WCDMA Band II, CH9262, 1852.4MHz****WCDMA Band II, CH9400, 1880.0MHz****WCDMA Band II, CH9538, 1907.6MHz**

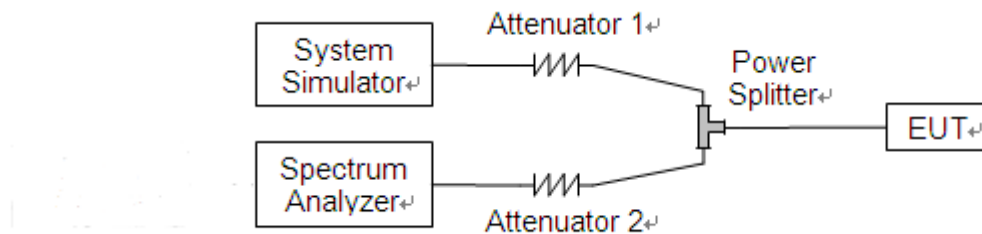
2.3. Occupied Bandwidth

2.3.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.3.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.



**2.3.3.Test Result**

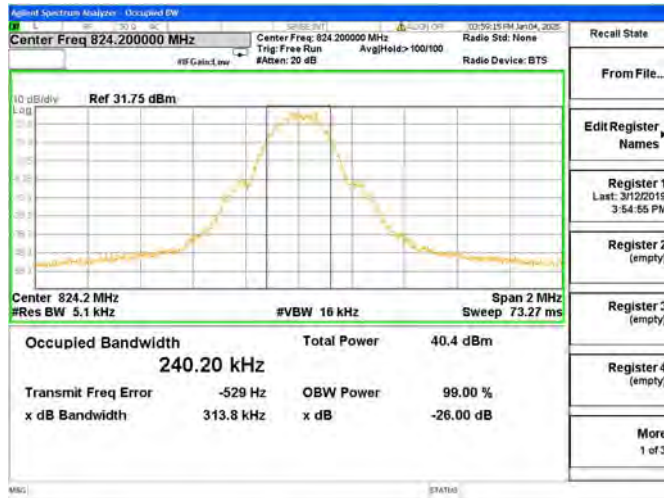
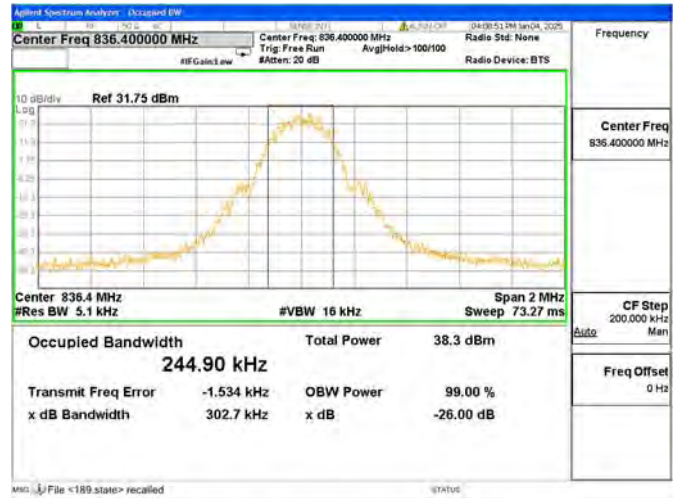
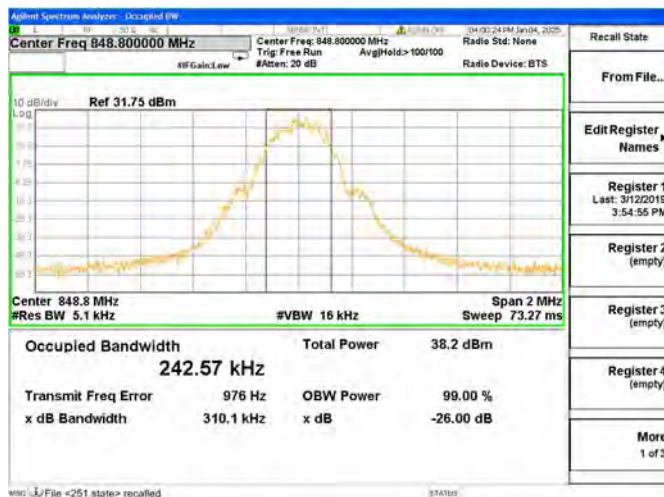
GSM850				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)
GSM	128	824.2	240.20	313.80
	189	836.4	244.90	302.70
	251	848.8	242.57	310.10
EDGE	128	824.2	249.15	317.10
	189	836.4	244.48	319.50
	251	848.8	245.29	314.50

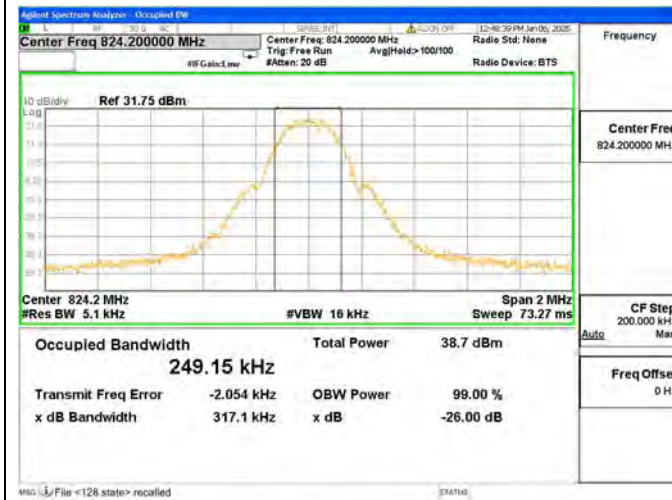
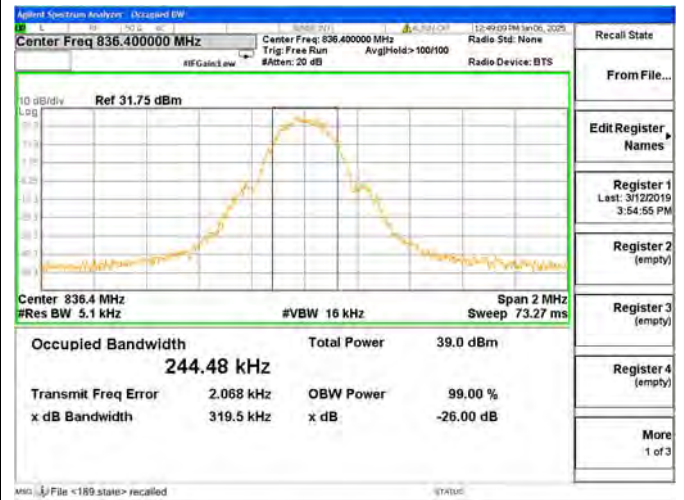
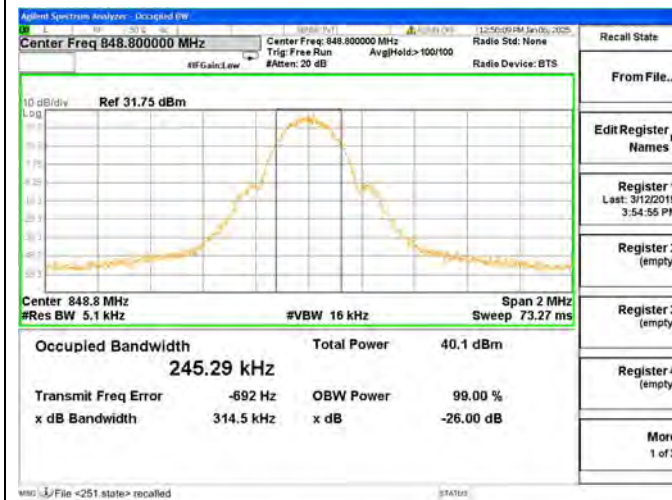
GSM1900				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)
GSM	512	1850.2	243.89	308.70
	661	1880.0	242.70	306.00
	810	1909.8	239.67	308.20
EDGE	512	1850.2	249.81	312.70
	661	1880.0	248.37	317.40
	810	1909.8	246.51	316.60

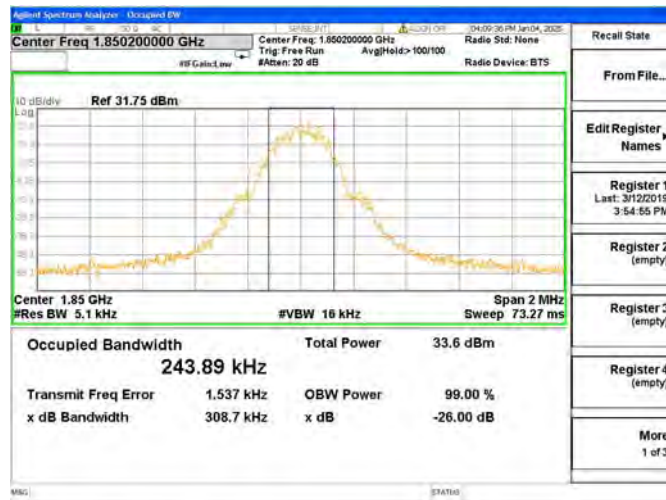
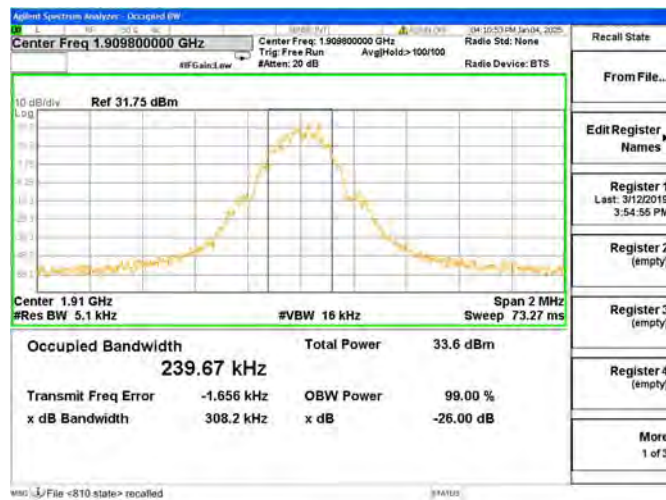
WCDMA Band V				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
WCDMA	4132	826.4	4.17	4.67
	4182	836.4	4.16	4.70
	4233	846.6	4.14	4.68

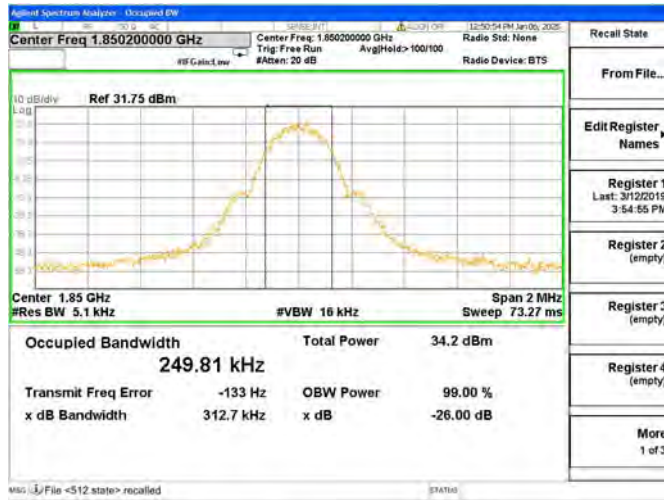
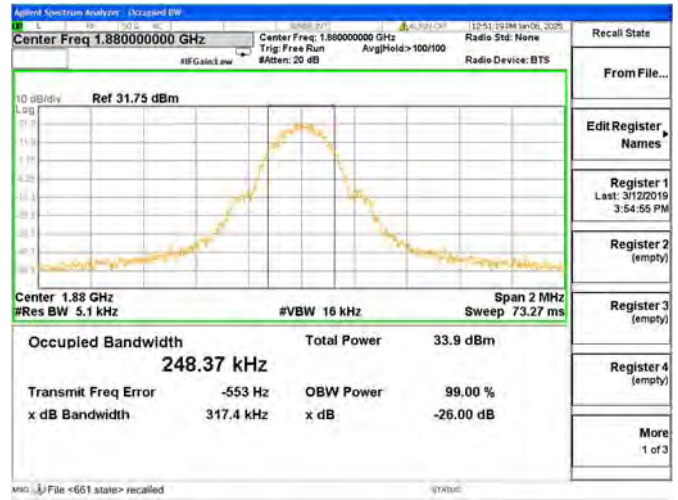
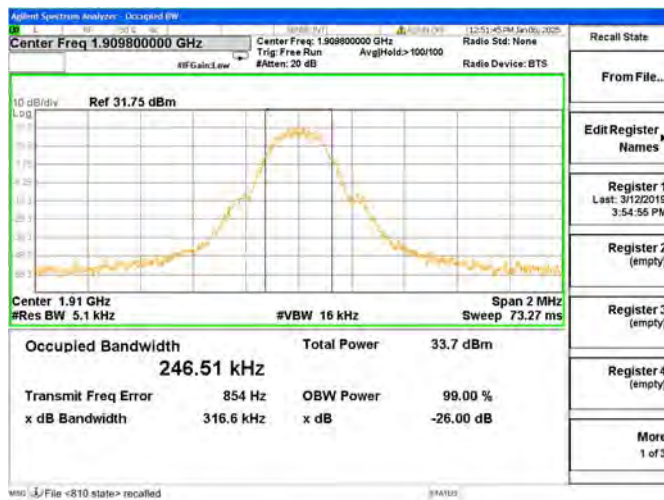
WCDMA Band II				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
WCDMA	9262	1852.4	4.16	4.69
	9400	1880.0	4.17	4.69
	9538	1907.6	4.14	4.67



**GSM850(GSM), CH128, 824.2MHz****GSM850(GSM), CH189, 836.4MHz****GSM850(GSM), CH251, 848.8MHz**

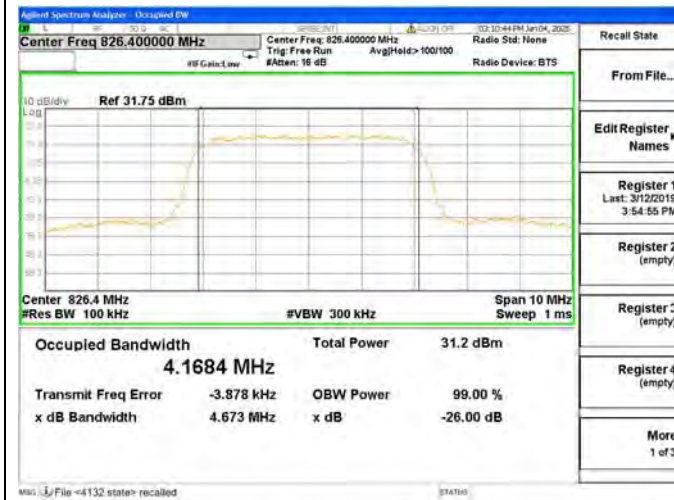
**GSM850(EDGE), CH128, 824.2MHz****GSM850(EDGE), CH189, 836.4MHz****GSM850(EDGE), CH251, 848.8MHz**

**GSM1900(GSM), CH512, 1850.2MHz****GSM1900(GSM), CH661, 1880.0MHz****GSM1900(GSM), CH810, 1909.8MHz**

**GSM1900(EDGE), CH512, 1850.2MHz****GSM1900(EDGE), CH661, 1880.0MHz****GSM1900(EDGE), CH810, 1909.8MHz**



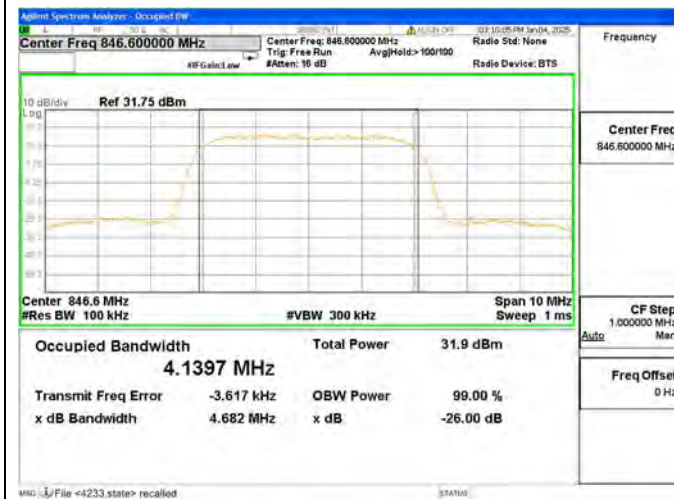
WCDMA Band V, CH4132, 826.4MHz

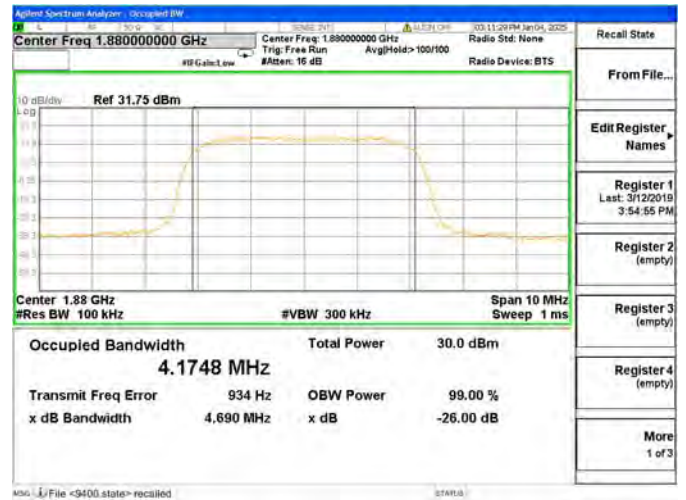


WCDMA Band V, CH4182, 836.4MHz



WCDMA Band V, CH4233, 846.6MHz



**WCDMA Band II, CH9262, 1852.4MHz****WCDMA Band II, CH9400, 1880.0MHz****WCDMA Band II, CH9538, 1907.6MHz**

2.4. Frequency Stability

2.4.1. Requirement

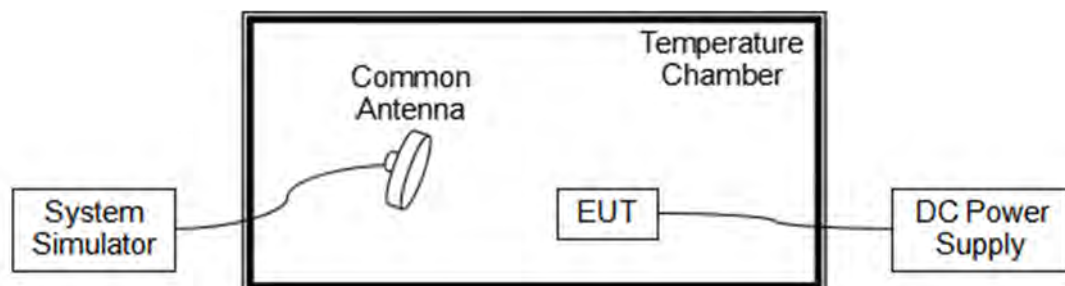
According to FCC section 22.355, 24.235 and 27.54 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

Note: The operating temperature of EUT is from -10°C to 55°C , which are specified by the applicant.

2.4.2. Test Description

Test Setup:



The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS via a Common Antenna.





2.4.3. Test Result

The nominal, highest and lowest extreme voltages are separately 3.80V, 4.35V and 3.50, which are specified by the applicant; the normal temperature here used is 20°C.

GSM850(GSM), CH189, 836.4MHz					
Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	6	0.007	PASS
Normal		-10	18	0.022	
Normal		0	20	0.024	
Normal		+10	-13	-0.016	
Normal		+20	4	0.005	
Normal		+30	13	0.016	
Normal		+40	17	0.020	
Normal		+50	19	0.023	
Normal		+55	-11	-0.013	
High	4.35	+20	17	0.020	
BATT.ENDPOINT	3.50	+20	0	0.000	

GSM850(EDGE), CH189, 836.4MHz					
Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	11	0.013	PASS
Normal		-10	16	0.019	
Normal		0	13	0.016	
Normal		+10	19	0.023	
Normal		+20	13	0.016	
Normal		+30	18	0.022	
Normal		+40	19	0.023	
Normal		+50	21	0.025	
Normal		+55	14	0.017	
High	4.35	+20	-3	-0.004	
BATT.ENDPOINT	3.50	+20	18	0.022	





GSM1900(GSM), CH661, 1880.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	22	0.012	PASS
Normal		-10	0	0.000	
Normal		0	20	0.011	
Normal		+10	14	0.007	
Normal		+20	-1	-0.001	
Normal		+30	17	0.009	
Normal		+40	18	0.010	
Normal		+50	-13	-0.007	
Normal		+55	-4	-0.002	
High	4.35	+20	20	0.011	
BATT.ENDPOINT	3.50	+20	-1	-0.001	

GSM1900(EDGE), CH661, 1880.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	17	0.009	PASS
Normal		-10	-16	-0.009	
Normal		0	-5	-0.003	
Normal		+10	20	0.011	
Normal		+20	14	0.007	
Normal		+30	20	0.011	
Normal		+40	-5	-0.003	
Normal		+50	15	0.008	
Normal	4.35	+55	-8	-0.004	
High	4.35	+20	19	0.010	





WCDMA Band V, CH4182, 836.4MHz					
Limit = ± 2.5 ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	17	0.020	PASS
Normal		-10	17	0.020	
Normal		0	-16	-0.019	
Normal		+10	12	0.014	
Normal		+20	19	0.023	
Normal		+30	-16	-0.019	
Normal		+40	-21	-0.025	
Normal		+50	16	0.019	
Normal		+55	8	0.010	
High	4.35	+20	15	0.018	
BATT.ENDPOINT	3.50	+20	-2	-0.002	

WCDMA Band II, CH9400, 1880.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	19	0.010	PASS
Normal		-10	-21	-0.011	
Normal		0	6	0.003	
Normal		+10	19	0.010	
Normal		+20	14	0.007	
Normal		+30	-19	-0.010	
Normal		+40	-16	-0.009	
Normal		+50	5	0.003	
Normal		+55	13	0.007	
High	4.35	+20	-19	-0.010	
BATT.ENDPOINT	4.35	+20	-10	-0.005	



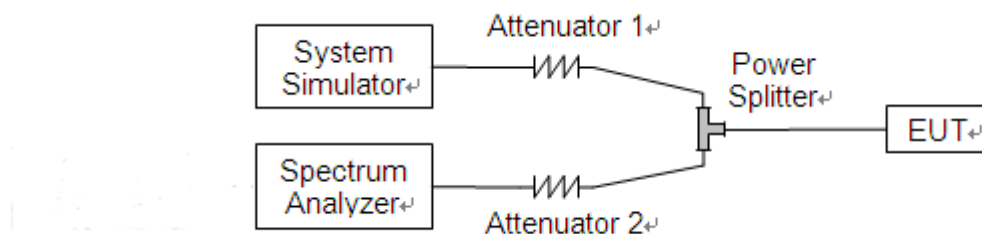
2.5. Conducted Out of Band Emissions

2.5.1. Requirement

According to FCC section 22.917(a), 24.238(a) and 27.53(h) the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \cdot \log(P)$ dB. This calculated to be -13dBm. The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency.

2.5.2. Test Description

Test Setup:



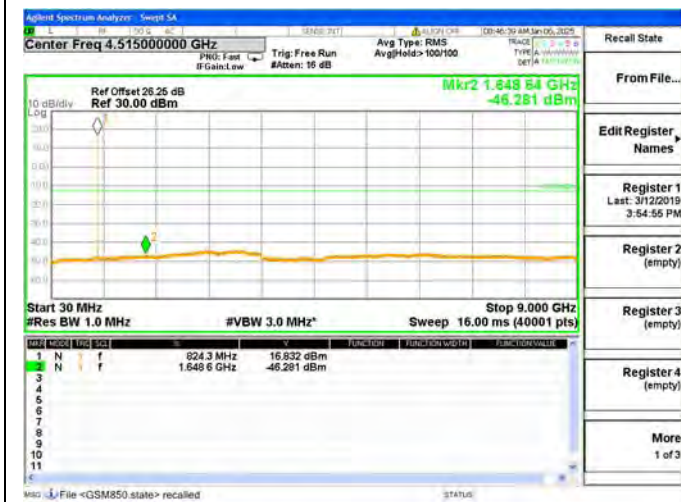
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.





2.5.3. Test Result

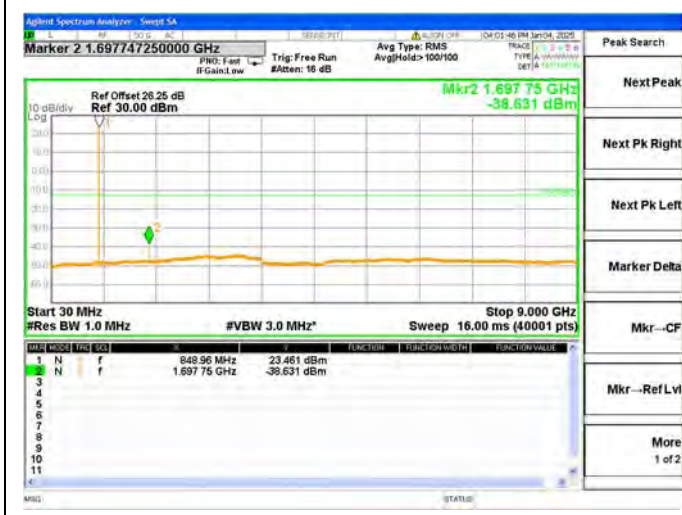
GSM850(GSM), CH128, 824.2MHz

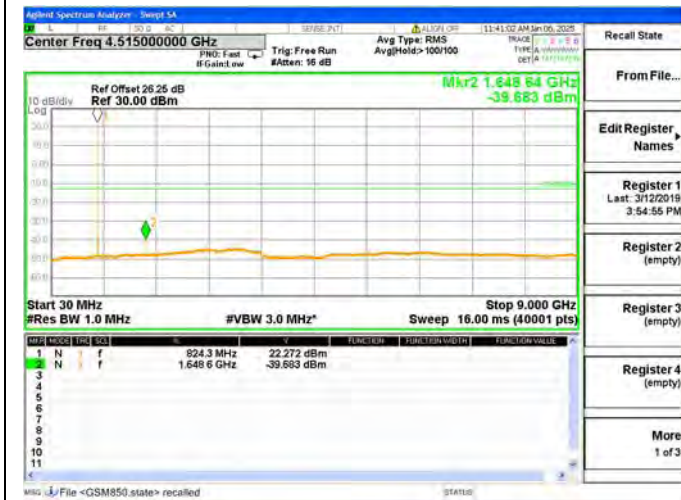
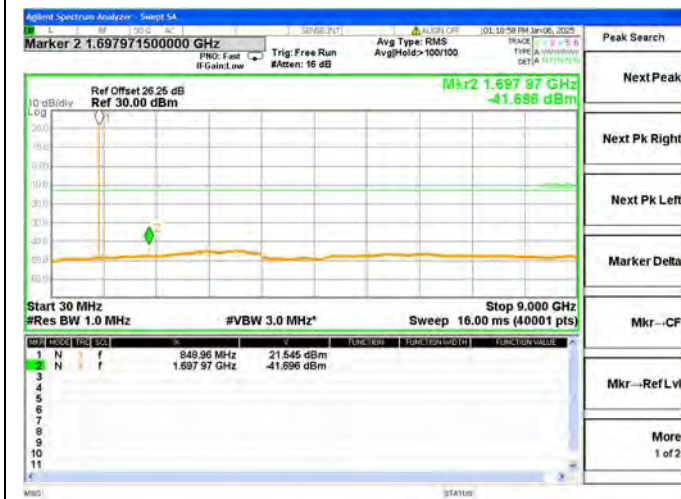


GSM850(GSM), CH189, 836.4MHz



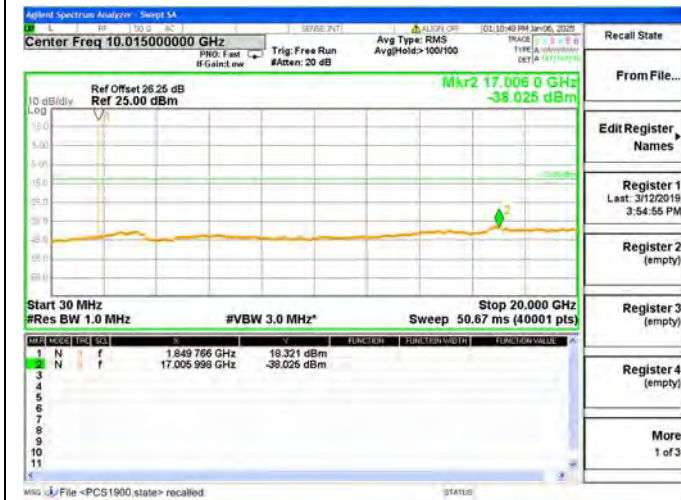
GSM850(GSM), CH251, 848.8MHz



**GSM850(EDGE), CH128, 824.2MHz****GSM850(EDGE), CH189, 836.4MHz****GSM850(EDGE), CH251, 848.8MHz**



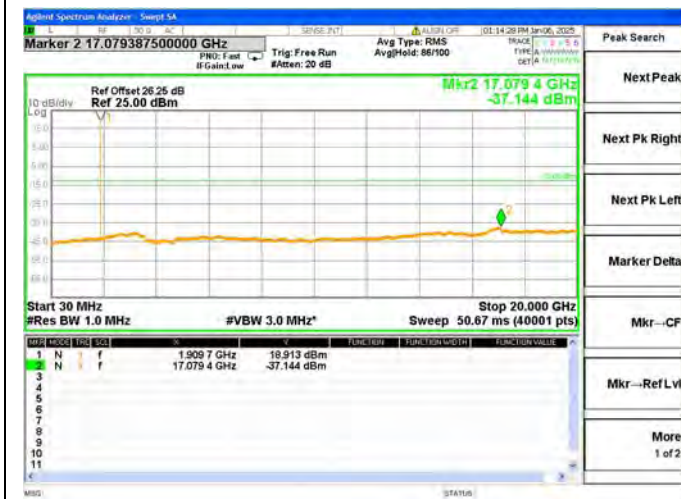
GSM1900(GSM), CH512, 1850.2MHz



GSM1900(GSM), CH661, 1880.0MHz

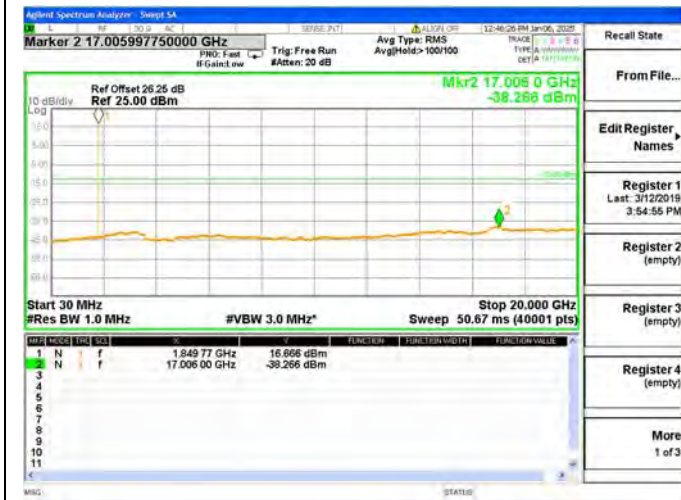


GSM1900(GSM), CH810, 1909.8MHz

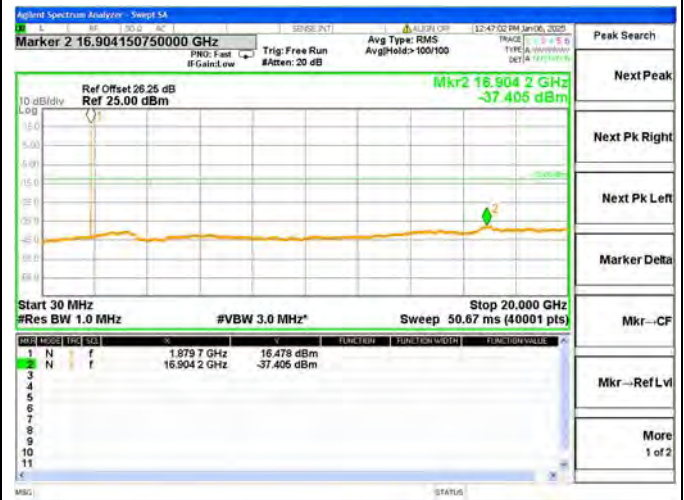




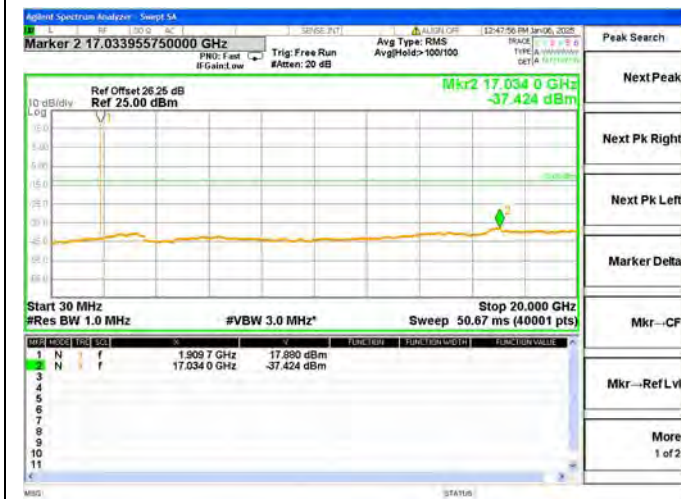
GSM1900(EDGE), CH512, 1850.2MHz



GSM1900(EDGE), CH661, 1880.0MHz

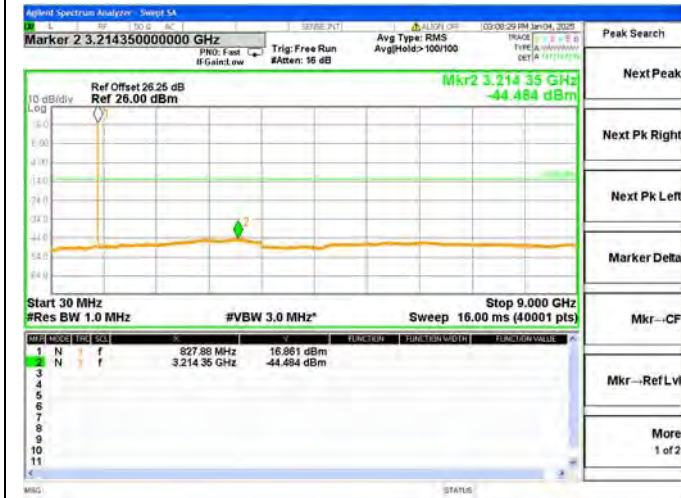


GSM1900(EDGE), CH810, 1909.8MHz





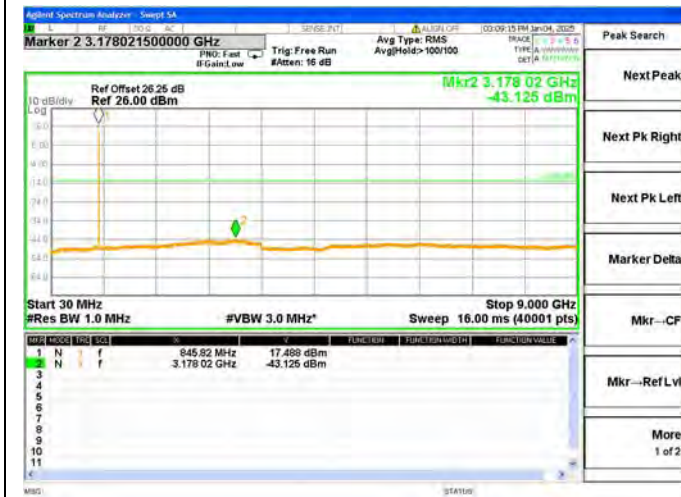
WCDMA Band V, CH4132, 826.4MHz



WCDMA Band V, CH4182, 836.4MHz

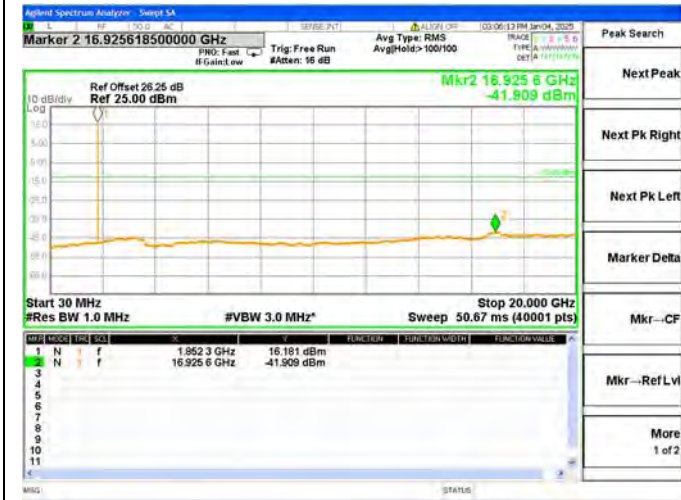


WCDMA Band V, CH4233, 846.6MHz





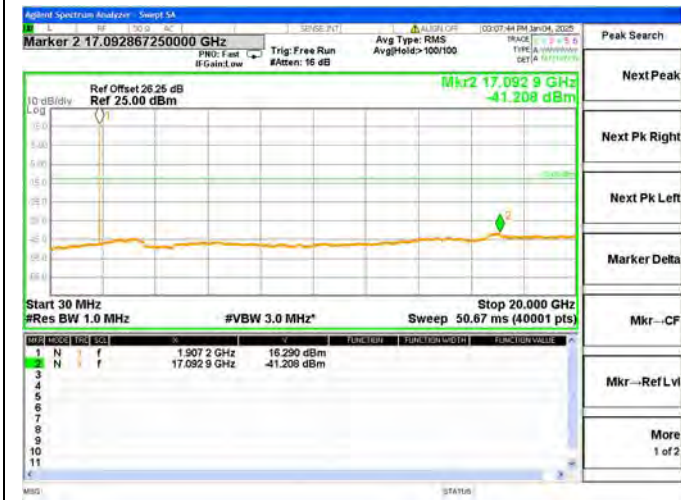
WCDMA Band II, CH9262, 1852.4MHz



WCDMA Band II, CH9400, 1880.0MHz



WCDMA Band II, CH9538, 1907.6MHz



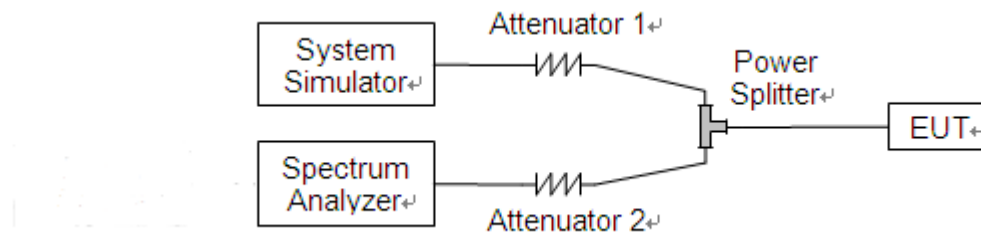
2.6. Band Edge

2.6.1. Requirement

According to FCC section 22.917(a), 24.238(a) and 27.53(h) the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \cdot \log(P)$ dB.

2.6.2. Test Description

Test Setup:



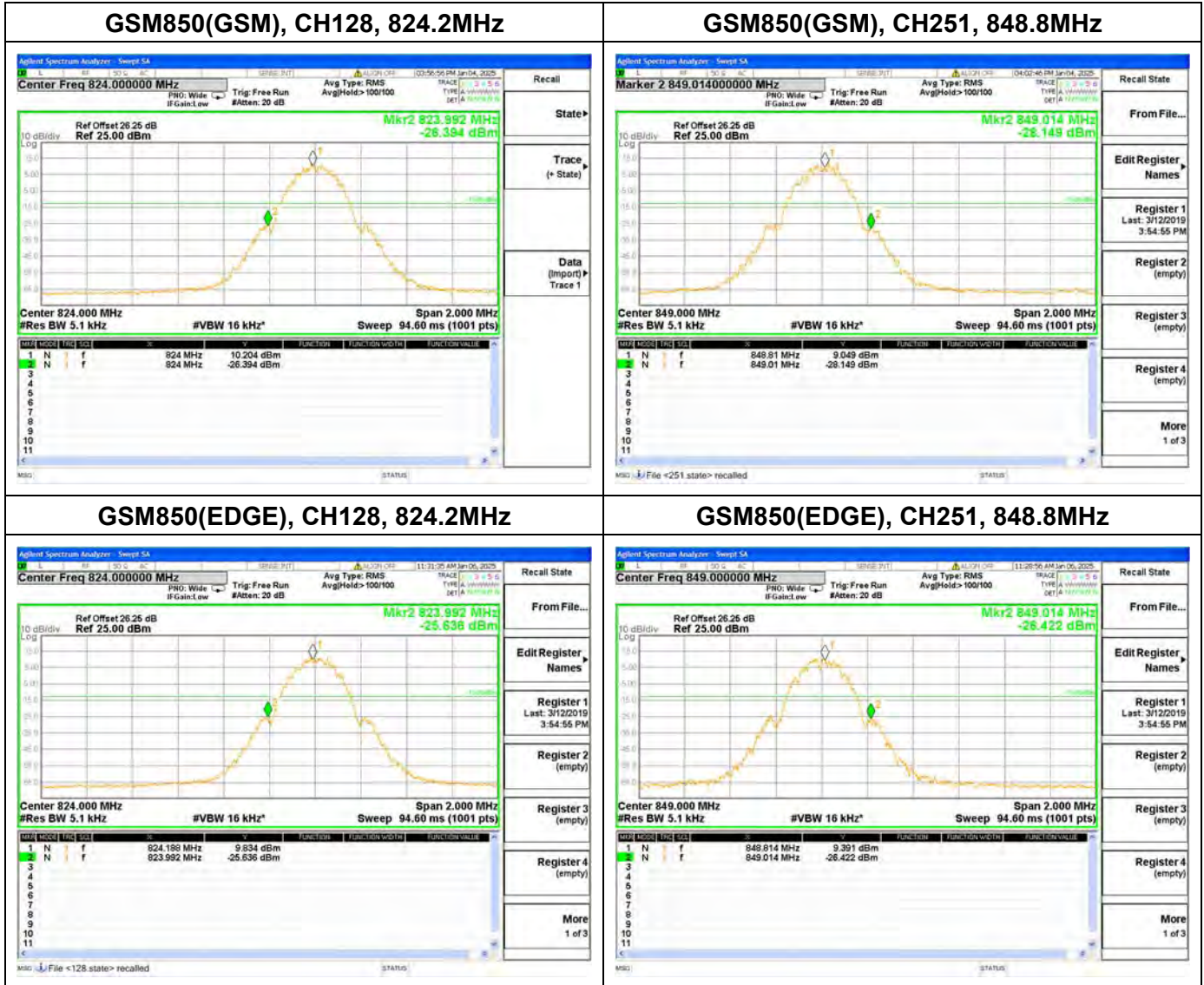
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the SS.





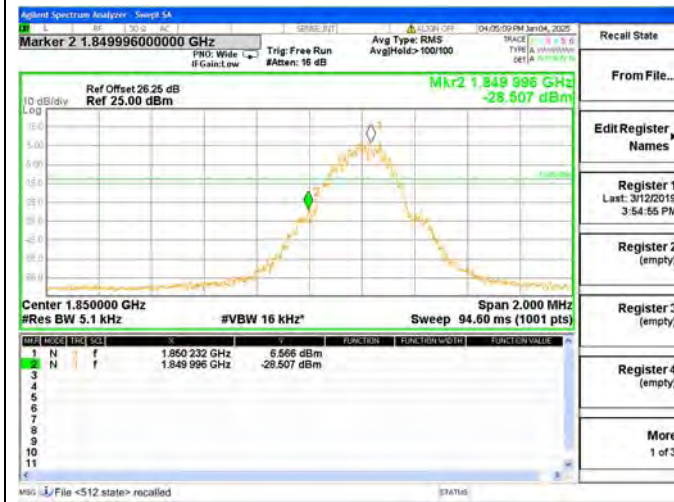
2.6.3. Test Result

The lowest and highest channels are tested to verify the band edge emissions.

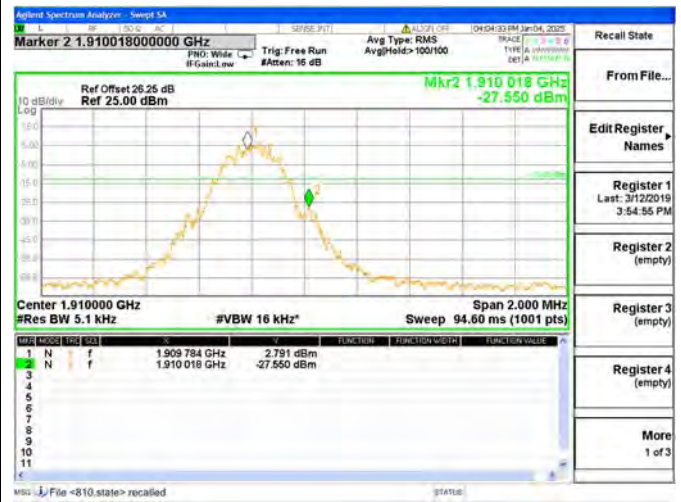




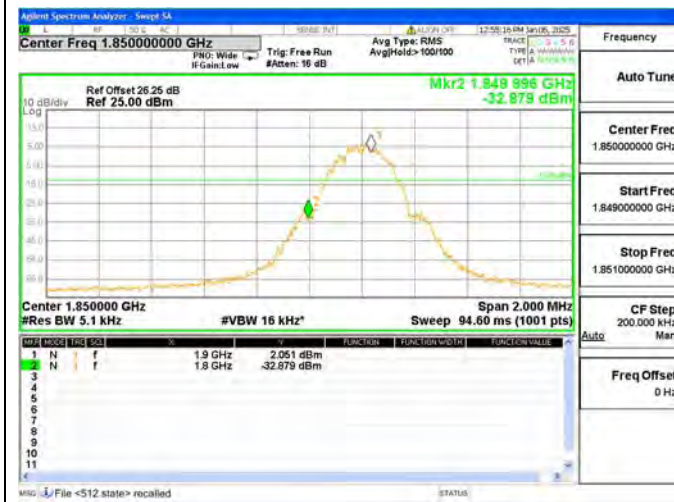
GSM1900(GSM), CH512, 1850.2MHz



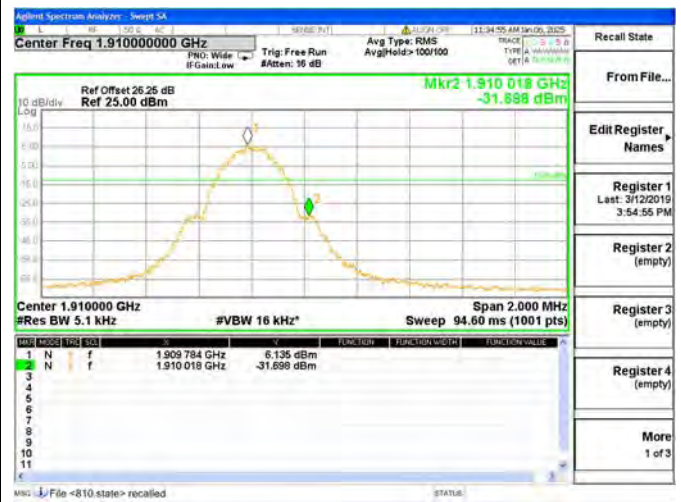
GSM1900(GSM), CH810, 1909.8MHz



GSM1900(EDGE), CH512, 1850.2MHz



GSM1900(EDGE), CH810, 1909.8MHz





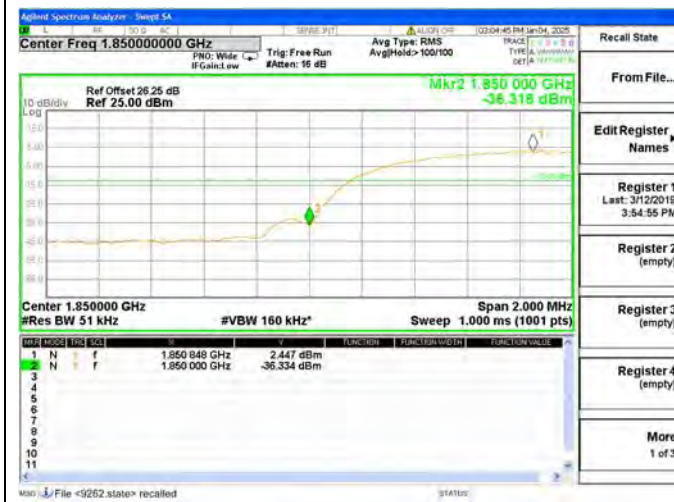
WCDMA Band V, CH4132, 826.4MHz



WCDMA Band V, CH4233, 846.6MHz



WCDMA Band II, CH9262, 1852.4MHz



WCDMA Band II, CH9538, 1907.6MHz



2.7. Determining E.R.P. and/or E.I.R.P. from conducted RF output power measurements

2.7.1. Requirement

According to FCC section 22.913, the Effective Radiated Power (E.R.P.) of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

According to FCC section 24.232, the broadband PCS mobile station is limited to 2 Watts e.i.r.p. peak power.

According to FCC section 27.50, mobile, and portable (hand-held) stations is limited to 1 Watts e.i.r.p. peak power.

2.7.2. Test Description

The test setups refer to section 2.1.3

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power (i.e. GSM850MHz band Power Control Level (PCL) = 5/19 and Power Class = 4, GSM1900MHz band Power Control Level (PCL) = 0/15 and Power Class = 1), and only the test result of the maximum output power was recorded. Please refer to section 2.1.3 of this report.

The relevant equation for determining the maximum E.R.P. or E.I.R.P. from the measured RF output power is given in Equation (1) as follows:

$$\text{E.R.P. or E.I.R.P.} = P_{\text{Meas}} + G_{\text{T}}$$

Where:

E.R.P. or E.I.R.P. effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_{T} gain of the transmitting antenna, in dBd (E.R.P.) or dBi (E.I.R.P.)

For devices utilizing multiple antennas, see ANSI C63.25-2015 6.4 for guidance with respect to determining the effective array transmit antenna gain term to be used in the above equation.

The following equations demonstrate the mathematical relationship between E.R.P. and E.I.R.P.:

a) E.R.P. = E.I.R.P. - 2.15, where E.R.P. and E.I.R.P. are expressed in consistent units.

b) E.I.R.P. = E.R.P. + 2.15, where E.R.P. and E.I.R.P. are expressed in consistent units.





2.7.3.Test Result

GSM850								
Band	Channel	Frequency (MHz)	PCL	Measured E.R.P.		Limit		Verdict
				dBm	W	dBm	W	
GSM	128	824.20	5	30.16	1.038	38.5	7	PASS
	189	836.40	5	30.18	1.042			PASS
	251	848.80	5	30.15	1.035			PASS
GPRS	128	824.20	5	30.14	1.033	38.5	7	PASS
	189	836.40	5	30.19	1.045			PASS
	251	848.80	5	30.11	1.026			PASS
EDGE	128	824.20	5	23.36	0.217	38.5	7	PASS
	189	836.40	5	23.39	0.218			PASS
	251	848.80	5	23.33	0.215			PASS
Note 1: For the GPRS and EDGE mode, all the slots were tested and just the worst data were recorded in this report.								

GSM1900								
Band	Channel	Frequency (MHz)	PCL	Measured E.I.R.P.		Limit		Verdict
				dBm	W	dBm	W	
GSM	512	1850.2	0	32.08	1.614	33	2	PASS
	661	1880.0	0	32.12	1.629			PASS
	810	1909.8	0	32.03	1.596			PASS
GPRS	512	1850.2	0	32.12	1.629	33	2	PASS
	661	1880.0	0	32.14	1.637			PASS
	810	1909.8	0	32.10	1.622			PASS
EDGE	512	1850.2	0	28.11	0.647	33	2	PASS
	661	1880.0	0	28.15	0.653			PASS
	810	1909.8	0	27.98	0.628			PASS
Note 1: For the GPRS and EDGE mode, all the slots were tested and just the worst data were recorded in this report.								





WCDMA Band V							
Band	Channel	Frequency (MHz)	Measured E.R.P.		Limit		Verdict
			dBm	W	dBm	W	
WCDMA	4132	826.4	20.26	0.106	38.5	7	PASS
	4182	836.4	20.40	0.110			PASS
	4233	846.6	20.32	0.108			PASS
HSDPA	4132	826.4	19.78	0.095	38.5	7	PASS
	4182	836.4	19.56	0.090			PASS
	4233	846.6	19.41	0.087			PASS
HSUPA	4132	826.4	20.25	0.106	38.5	7	PASS
	4182	836.4	20.27	0.106			PASS
	4233	846.6	20.23	0.105			PASS
HSPA+	4132	826.4	20.24	0.106	38.5	7	PASS
	4182	836.4	20.14	0.103			PASS
	4233	846.6	20.25	0.106			PASS
Note 1: For the HSDPA and HSUPA mode, all the subtests were tested and just the worst data were recorded in this report.							





WCDMA Band II							
Band	Channel	Frequency (MHz)	Measured E.I.R.P.		Limit		Verdict
			dBm	W	dBm	W	
WCDMA	9262	1852.4	24.93	0.311	33	2	PASS
	9400	1880.0	25.06	0.321			PASS
	9538	1907.6	25.03	0.318			PASS
HSDPA	9262	1852.4	24.76	0.299	33	2	PASS
	9400	1880.0	24.78	0.301			PASS
	9538	1907.6	24.36	0.273			PASS
HSUPA	9262	1852.4	24.66	0.292	33	2	PASS
	9400	1880.0	24.72	0.296			PASS
	9538	1907.6	24.56	0.286			PASS
HSPA+	9262	1852.4	24.75	0.299	33	2	PASS
	9400	1880.0	24.78	0.301			PASS
	9538	1907.6	24.28	0.268			PASS
Note 1: For the HSDPA and HSUPA mode, all the subtests were tested and just the worst data were recorded in this report.							

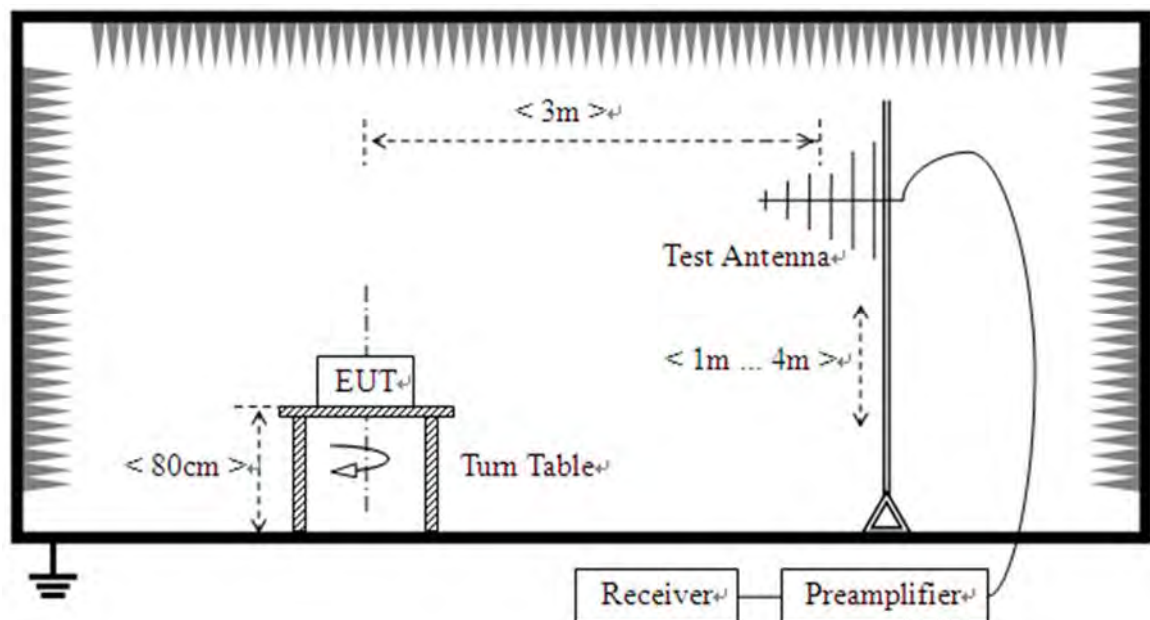


2.8. Radiated Out of Band Emissions

2.8.1. Requirement

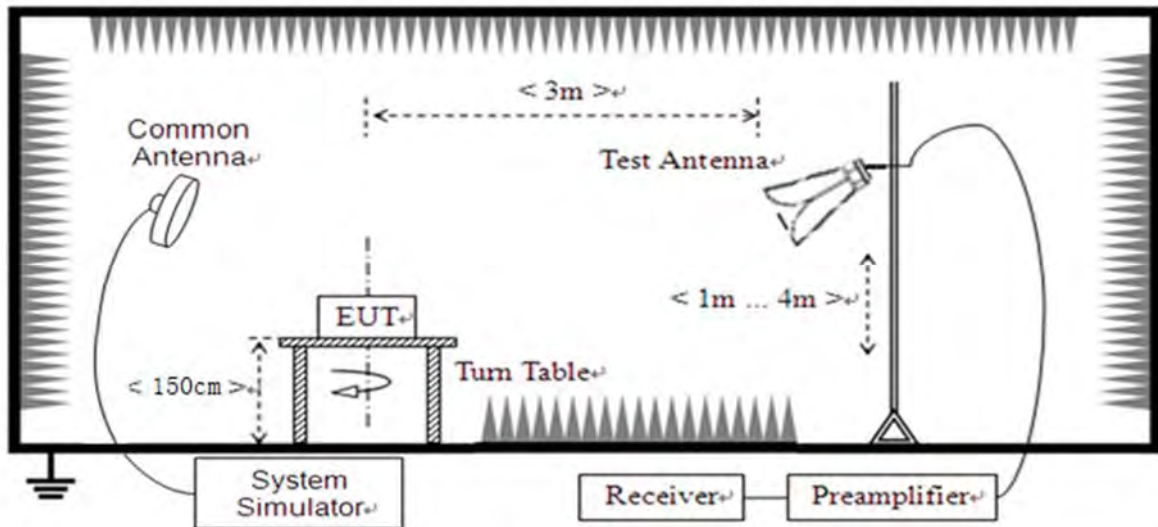
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10*\log(P)$ dB. This calculated to be -13dBm. The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency.

2.8.2. Test Description



(For the test frequency from 30MHz to 1GHz)





(For the test frequency above 1GHz)

The EUT is located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading. A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power and only the test result of the maximum output power was recorded.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360° to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

Note: When doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

2.8.3.Test Procedure

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements.





2.8.4. Test Result

Note1: The power of the EUT transmitting frequency should be ignored.

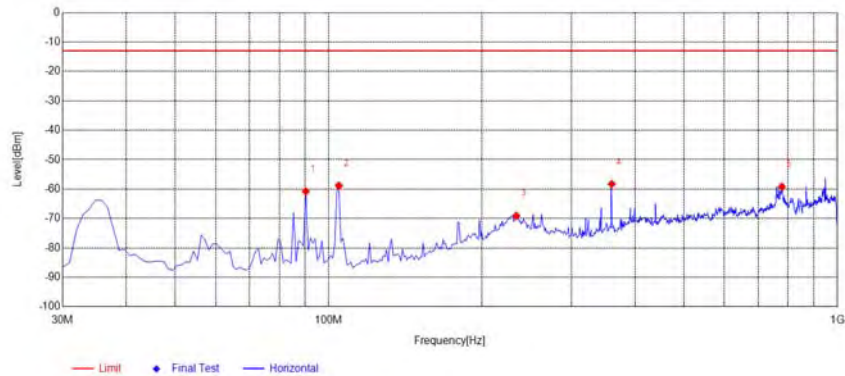
Note2: All test mode and condition mentioned were considered and evaluated respectively by performing full test, only the worst data were recorded and reported.

Note3: All spurious emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

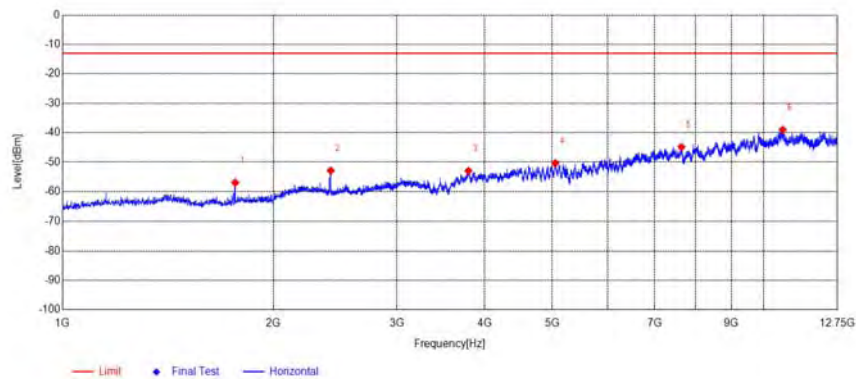
Note4: NA means the frequency is the basic frequency or the base station frequency, they are no need to verdict.



GSM850(GSM), Low Channel



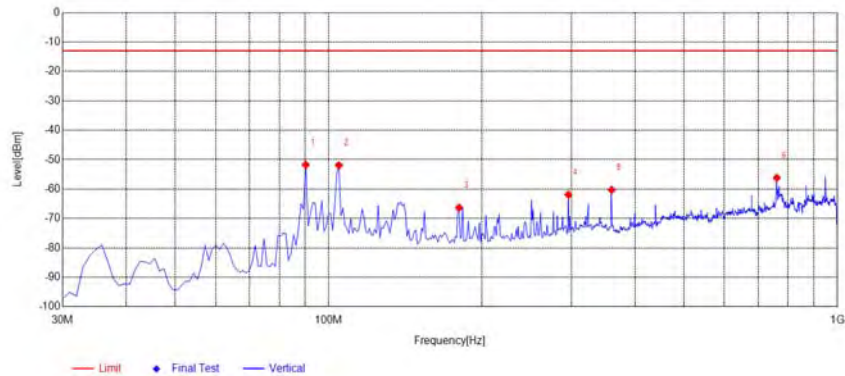
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	90.2002	-60.81	-13.00	Horizontal	PASS
2	104.7648	-58.84	-13.00	Horizontal	PASS
3	233.9039	-69.09	-13.00	Horizontal	PASS
4	360.1301	-58.29	-13.00	Horizontal	PASS
5	777.6476	-59.19	-13.00	Horizontal	PASS



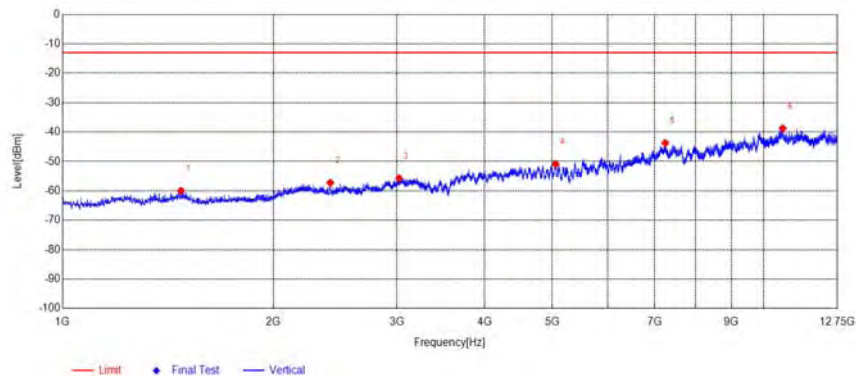
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	1763.4606	-56.98	-13.00	Horizontal	PASS
2	2413.5689	-52.90	-13.00	Horizontal	PASS
3	3794.6324	-53.00	-13.00	Horizontal	PASS
4	5047.3412	-50.38	-13.00	Horizontal	PASS
5	7641.1824	-44.86	-13.00	Horizontal	PASS
6	10654.2671	-39.03	-13.00	Horizontal	PASS



GSM850(GSM), Low Channel



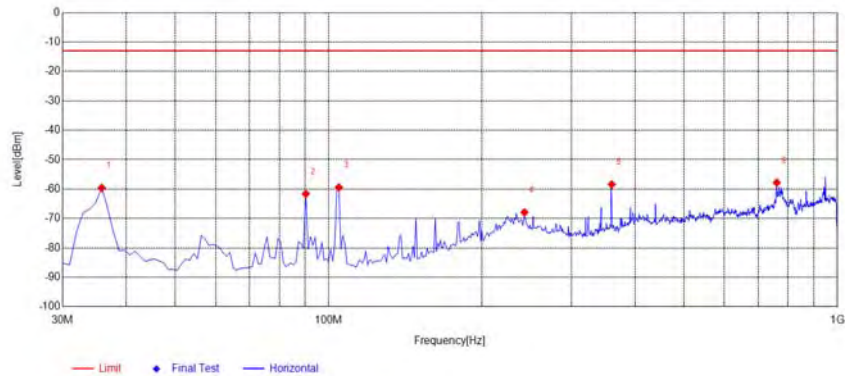
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	90.2002	-51.74	-13.00	Vertical	PASS
2	104.7648	-51.90	-13.00	Vertical	PASS
3	180.5005	-66.30	-13.00	Vertical	PASS
4	296.0460	-61.89	-13.00	Vertical	PASS
5	360.1301	-60.25	-13.00	Vertical	PASS
6	760.1702	-56.19	-13.00	Vertical	PASS



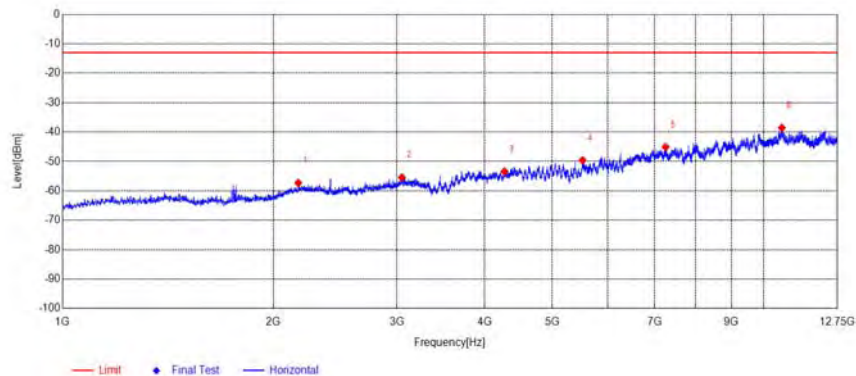
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	1475.9127	-59.96	-13.00	Vertical	PASS
2	2410.2350	-57.28	-13.00	Vertical	PASS
3	3021.1702	-55.73	-13.00	Vertical	PASS
4	5054.0090	-50.91	-13.00	Vertical	PASS
5	7242.8881	-43.73	-13.00	Vertical	PASS
6	10655.7673	-38.76	-13.00	Vertical	PASS



GSM850(GSM), Mid Channel



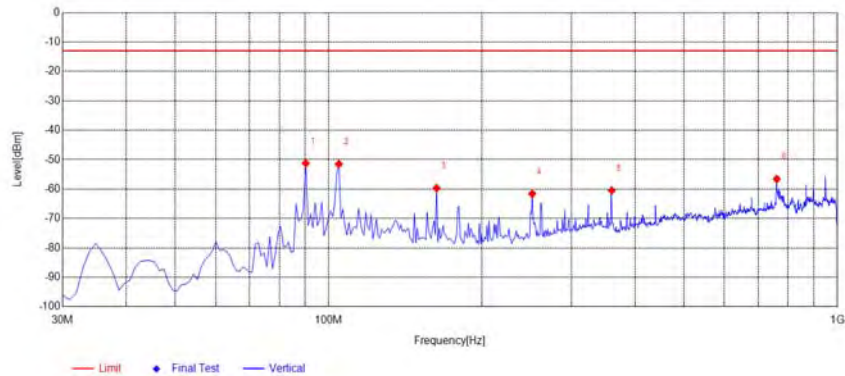
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	35.8258	-59.58	-13.00	Horizontal	PASS
2	90.2002	-61.63	-13.00	Horizontal	PASS
3	104.7648	-59.42	-13.00	Horizontal	PASS
4	242.6426	-67.90	-13.00	Horizontal	PASS
5	360.1301	-58.40	-13.00	Horizontal	PASS
6	760.1702	-57.83	-13.00	Horizontal	PASS



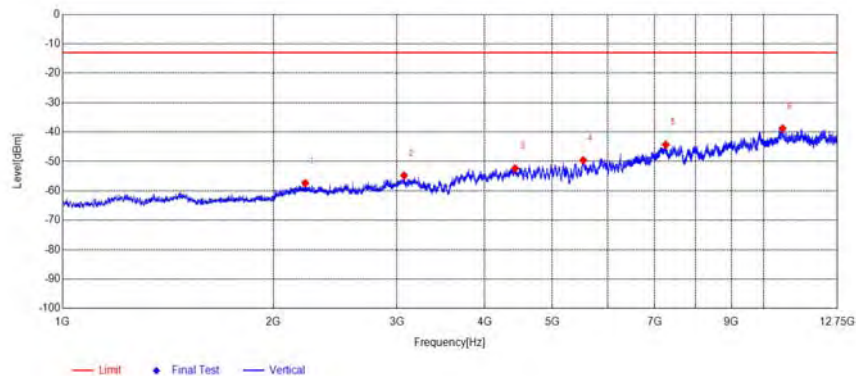
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2169.3616	-57.30	-13.00	Horizontal	PASS
2	3048.6748	-55.42	-13.00	Horizontal	PASS
3	4270.5451	-53.37	-13.00	Horizontal	PASS
4	5520.7535	-49.59	-13.00	Horizontal	PASS
5	7251.8891	-45.13	-13.00	Horizontal	PASS
6	10622.0136	-38.52	-13.00	Horizontal	PASS



GSM850(GSM), Mid Channel



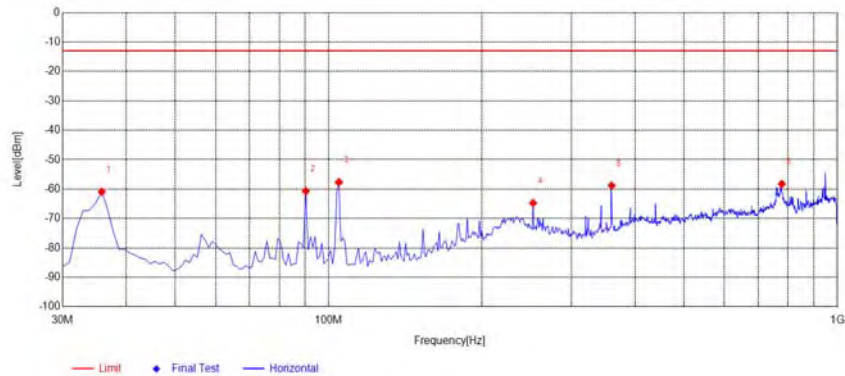
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	90.2002	-51.24	-13.00	Vertical	PASS
2	104.7648	-51.47	-13.00	Vertical	PASS
3	163.0230	-59.70	-13.00	Vertical	PASS
4	251.3814	-61.61	-13.00	Vertical	PASS
5	360.1301	-60.45	-13.00	Vertical	PASS
6	760.1702	-56.59	-13.00	Vertical	PASS



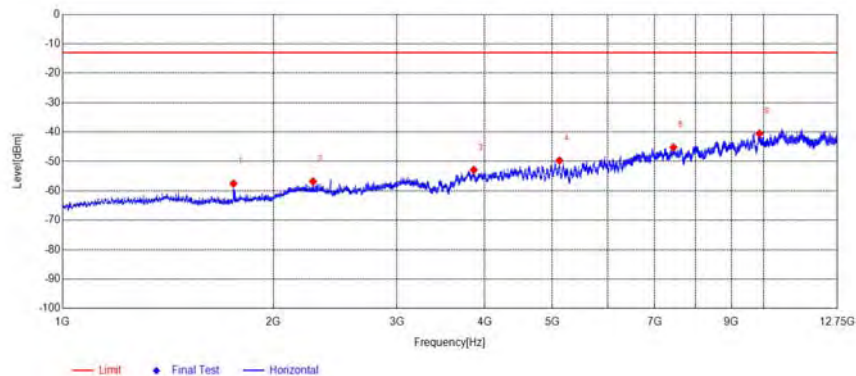
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2219.3699	-57.37	-13.00	Vertical	PASS
2	3071.1785	-54.78	-13.00	Vertical	PASS
3	4422.2370	-52.36	-13.00	Vertical	PASS
4	5531.5886	-49.60	-13.00	Vertical	PASS
5	7256.3896	-44.30	-13.00	Vertical	PASS
6	10647.5164	-38.82	-13.00	Vertical	PASS



GSM850(GSM), High Channel



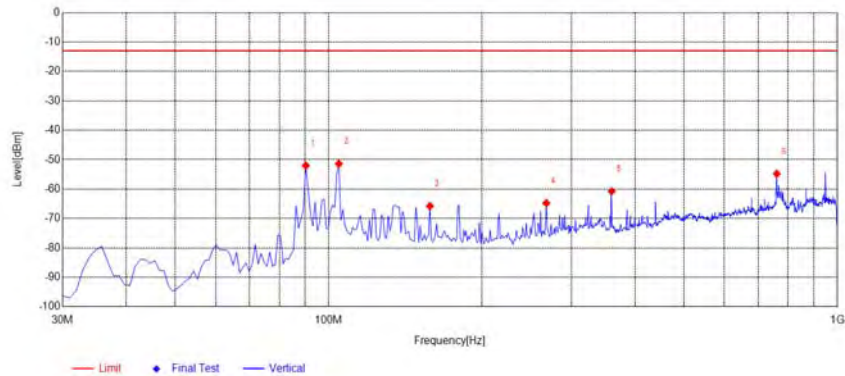
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	35.8258	-60.92	-13.00	Horizontal	PASS
2	90.2002	-60.70	-13.00	Horizontal	PASS
3	104.7648	-57.64	-13.00	Horizontal	PASS
4	252.3524	-64.77	-13.00	Horizontal	PASS
5	360.1301	-58.80	-13.00	Horizontal	PASS
6	777.6476	-58.27	-13.00	Horizontal	PASS



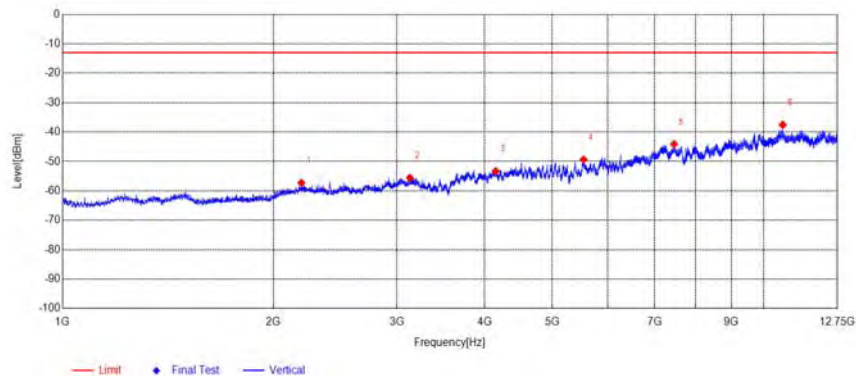
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	1753.4589	-57.53	-13.00	Horizontal	PASS
2	2276.8795	-56.78	-13.00	Horizontal	PASS
3	3860.4767	-52.88	-13.00	Horizontal	PASS
4	5116.5194	-49.71	-13.00	Horizontal	PASS
5	7442.4103	-45.21	-13.00	Horizontal	PASS
6	9871.9302	-40.53	-13.00	Horizontal	PASS



GSM850(GSM), High Channel



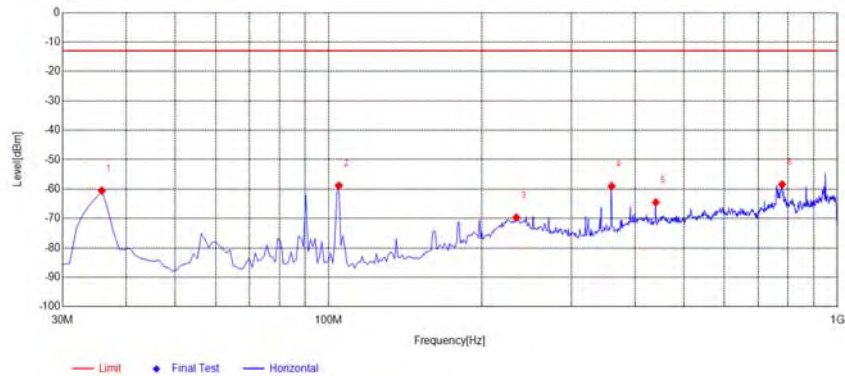
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	90.2002	-52.01	-13.00	Vertical	PASS
2	104.7648	-51.37	-13.00	Vertical	PASS
3	158.1682	-65.78	-13.00	Vertical	PASS
4	267.8879	-64.78	-13.00	Vertical	PASS
5	360.1301	-60.77	-13.00	Vertical	PASS
6	760.1702	-54.79	-13.00	Vertical	PASS



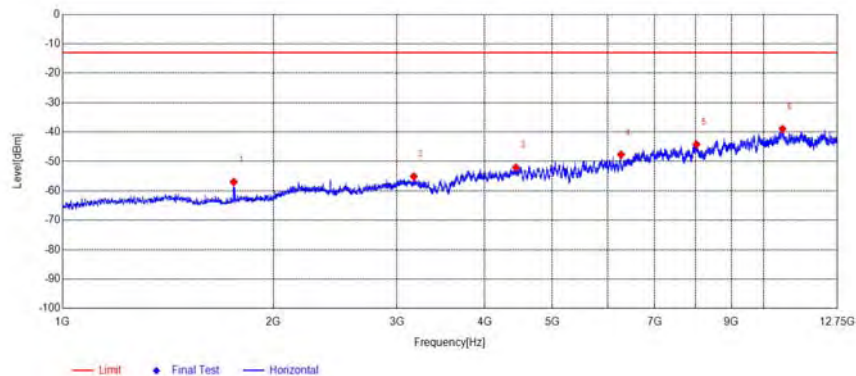
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2191.8653	-57.29	-13.00	Vertical	PASS
2	3130.3551	-55.61	-13.00	Vertical	PASS
3	4148.8581	-53.32	-13.00	Vertical	PASS
4	5539.0898	-49.35	-13.00	Vertical	PASS
5	7454.4116	-44.13	-13.00	Vertical	PASS
6	10656.5174	-37.55	-13.00	Vertical	PASS



GSM1900(GSM), Low Channel



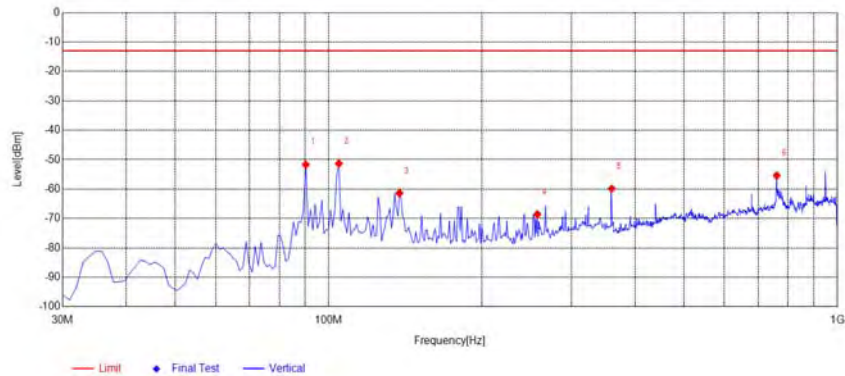
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	35.8258	-60.53	-13.00	Horizontal	PASS
2	104.7648	-58.86	-13.00	Horizontal	PASS
3	233.9039	-69.66	-13.00	Horizontal	PASS
4	360.1301	-59.00	-13.00	Horizontal	PASS
5	439.7498	-64.54	-13.00	Horizontal	PASS
6	778.6186	-58.44	-13.00	Horizontal	PASS



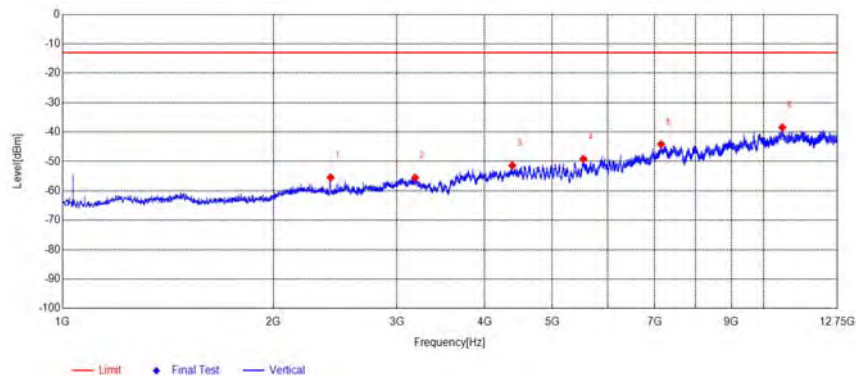
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	1755.1259	-56.96	-13.00	Horizontal	PASS
2	3170.3617	-55.08	-13.00	Horizontal	PASS
3	4434.7391	-52.04	-13.00	Horizontal	PASS
4	6263.2793	-47.68	-13.00	Horizontal	PASS
5	8023.7249	-44.19	-13.00	Horizontal	PASS
6	10648.2665	-38.94	-13.00	Horizontal	PASS



GSM1900(GSM), Low Channel



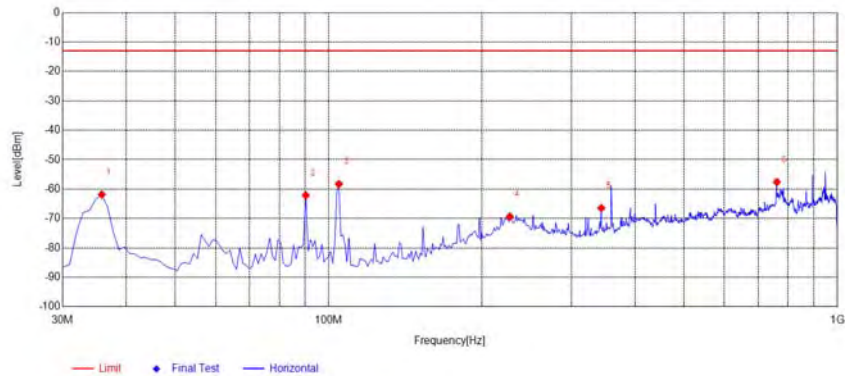
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	90.2002	-51.65	-13.00	Vertical	PASS
2	104.7648	-51.31	-13.00	Vertical	PASS
3	137.7778	-61.39	-13.00	Vertical	PASS
4	257.2072	-68.59	-13.00	Vertical	PASS
5	360.1301	-59.85	-13.00	Vertical	PASS
6	760.1702	-55.41	-13.00	Vertical	PASS



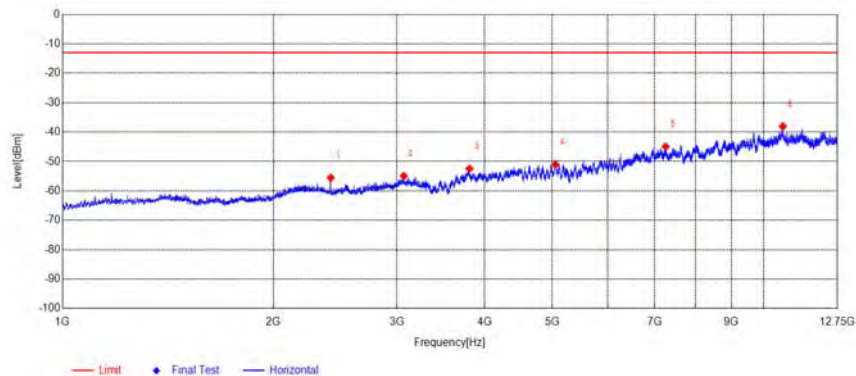
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2412.7355	-55.47	-13.00	Vertical	PASS
2	3184.5308	-55.55	-13.00	Vertical	PASS
3	4382.2304	-51.36	-13.00	Vertical	PASS
4	5534.0890	-49.16	-13.00	Vertical	PASS
5	7145.3773	-44.15	-13.00	Vertical	PASS
6	10642.2658	-38.43	-13.00	Vertical	PASS



GSM1900(GSM), Mid Channel



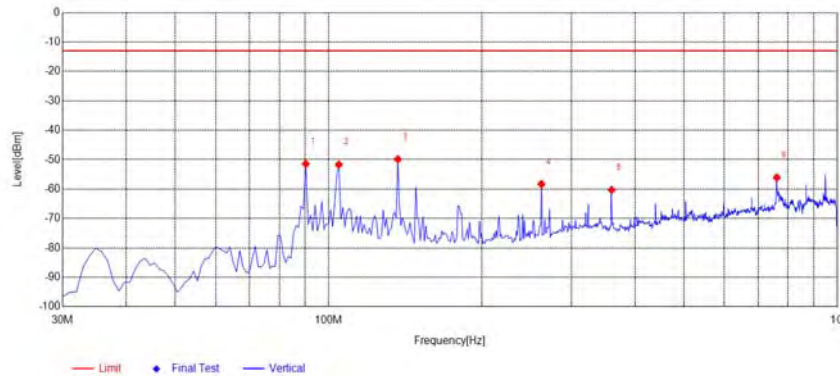
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	35.8258	-61.85	-13.00	Horizontal	PASS
2	90.2002	-62.12	-13.00	Horizontal	PASS
3	104.7648	-58.27	-13.00	Horizontal	PASS
4	227.1071	-69.36	-13.00	Horizontal	PASS
5	343.6236	-66.46	-13.00	Horizontal	PASS
6	760.1702	-57.60	-13.00	Horizontal	PASS



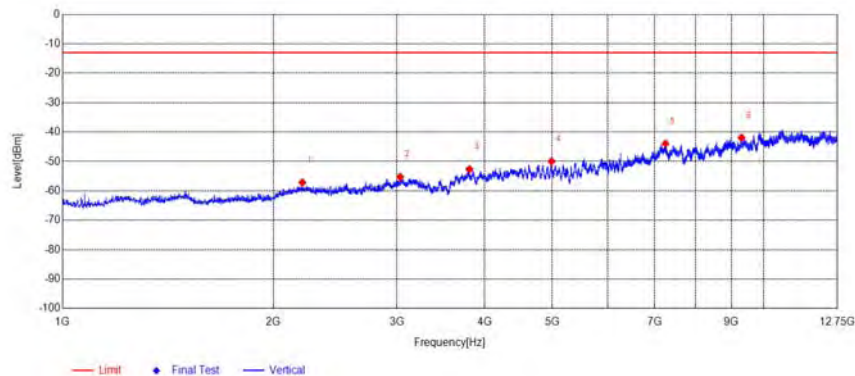
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2414.4024	-55.56	-13.00	Horizontal	PASS
2	3067.8446	-54.94	-13.00	Horizontal	PASS
3	3807.1345	-52.45	-13.00	Horizontal	PASS
4	5050.6751	-51.03	-13.00	Horizontal	PASS
5	7255.6395	-44.98	-13.00	Horizontal	PASS
6	10658.7676	-38.05	-13.00	Horizontal	PASS



GSM1900(GSM), Mid Channel



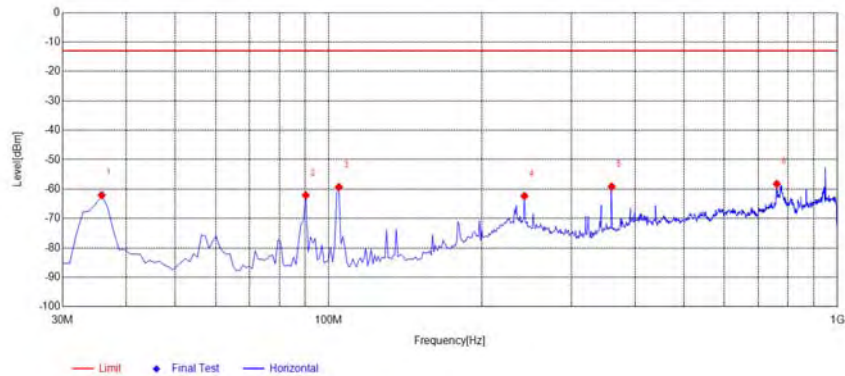
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	90.2002	-51.44	-13.00	Vertical	PASS
2	104.7648	-51.65	-13.00	Vertical	PASS
3	136.8068	-49.86	-13.00	Vertical	PASS
4	262.0621	-58.31	-13.00	Vertical	PASS
5	360.1301	-60.28	-13.00	Vertical	PASS
6	760.1702	-56.12	-13.00	Vertical	PASS



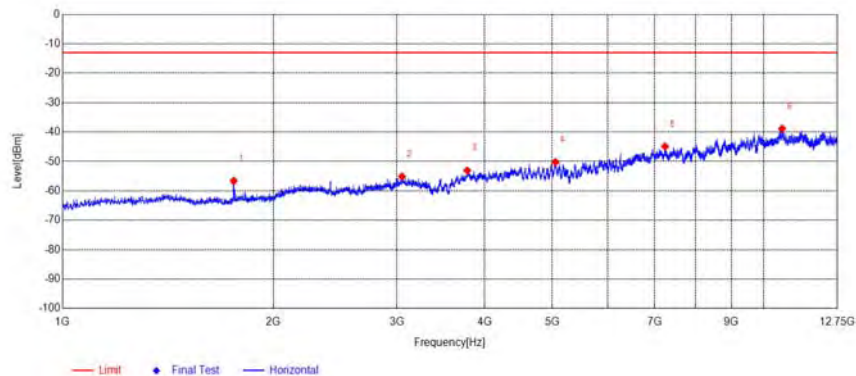
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2198.5331	-57.18	-13.00	Vertical	PASS
2	3032.0053	-55.21	-13.00	Vertical	PASS
3	3806.3011	-52.62	-13.00	Vertical	PASS
4	4985.6643	-49.95	-13.00	Vertical	PASS
5	7250.3889	-43.95	-13.00	Vertical	PASS
6	9303.3670	-41.93	-13.00	Vertical	PASS



GSM1900(GSM), High Channel



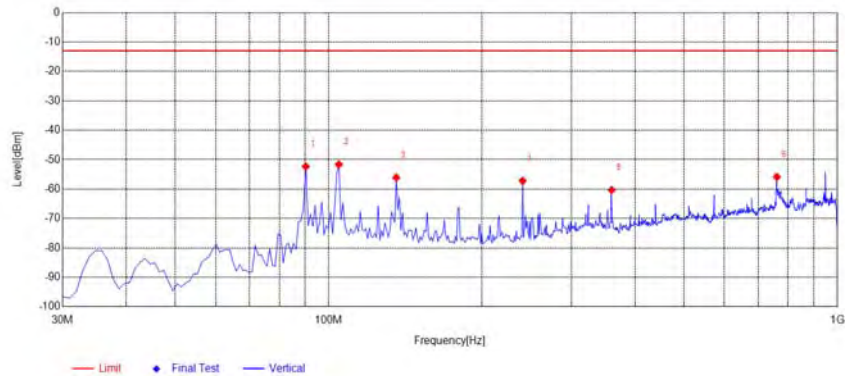
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	35.8258	-62.06	-13.00	Horizontal	PASS
2	90.2002	-62.11	-13.00	Horizontal	PASS
3	104.7648	-59.29	-13.00	Horizontal	PASS
4	242.6426	-62.37	-13.00	Horizontal	PASS
5	360.1301	-59.16	-13.00	Horizontal	PASS
6	760.1702	-58.27	-13.00	Horizontal	PASS



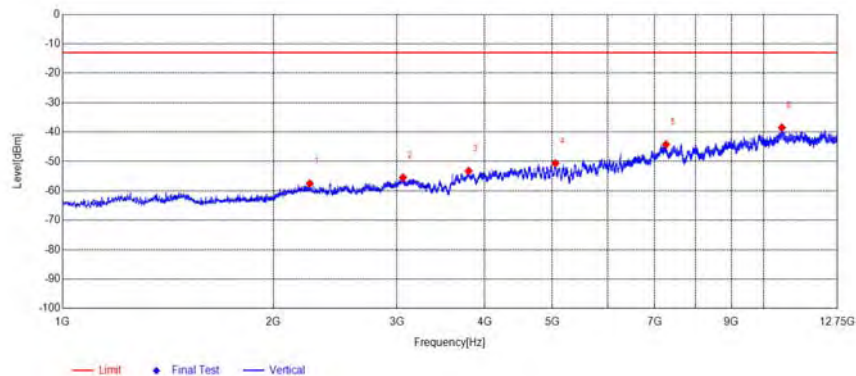
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	1755.1259	-56.62	-13.00	Horizontal	PASS
2	3050.3417	-55.08	-13.00	Horizontal	PASS
3	3779.6299	-53.06	-13.00	Horizontal	PASS
4	5049.0082	-50.23	-13.00	Horizontal	PASS
5	7237.6375	-44.91	-13.00	Horizontal	PASS
6	10634.0149	-38.84	-13.00	Horizontal	PASS



GSM1900(GSM), High Channel



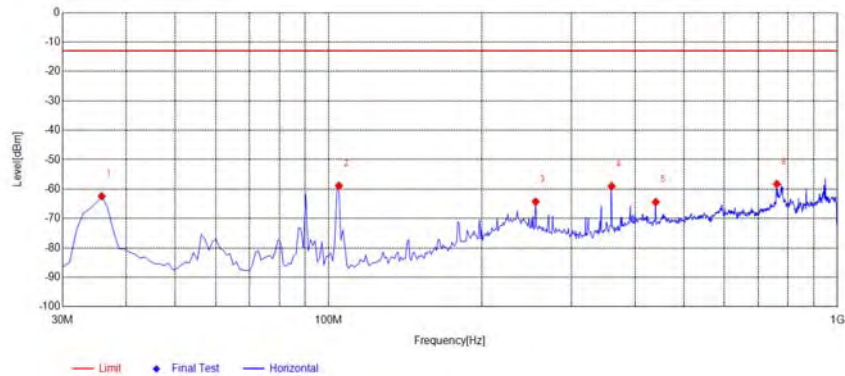
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	90.2002	-52.33	-13.00	Vertical	PASS
2	104.7648	-51.61	-13.00	Vertical	PASS
3	135.8358	-56.12	-13.00	Vertical	PASS
4	240.7007	-57.22	-13.00	Vertical	PASS
5	360.1301	-60.33	-13.00	Vertical	PASS
6	760.1702	-55.87	-13.00	Vertical	PASS



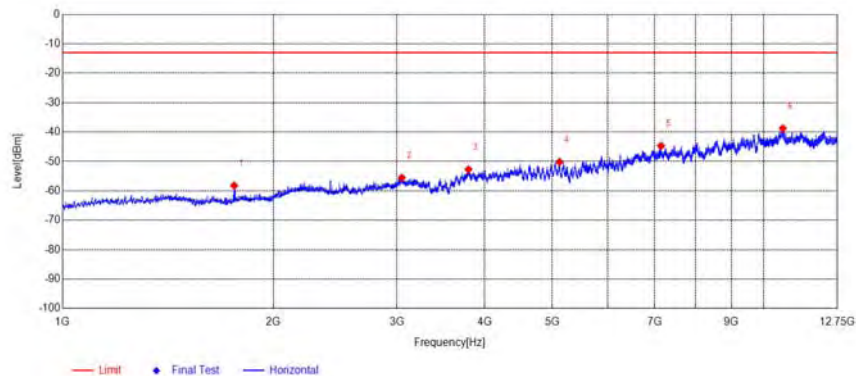
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2252.7088	-57.49	-13.00	Vertical	PASS
2	3060.3434	-55.47	-13.00	Vertical	PASS
3	3797.1329	-53.24	-13.00	Vertical	PASS
4	5050.6751	-50.63	-13.00	Vertical	PASS
5	7260.8901	-44.22	-13.00	Vertical	PASS
6	10624.2638	-38.50	-13.00	Vertical	PASS



GSM850(EDGE), Low Channel



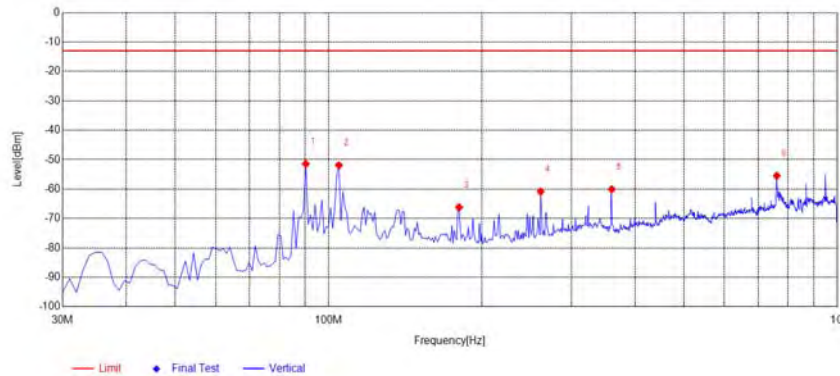
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	35.8258	-62.44	-13.00	Horizontal	PASS
2	104.7648	-58.89	-13.00	Horizontal	PASS
3	255.2653	-64.29	-13.00	Horizontal	PASS
4	360.1301	-59.03	-13.00	Horizontal	PASS
5	439.7498	-64.41	-13.00	Horizontal	PASS
6	760.1702	-58.29	-13.00	Horizontal	PASS



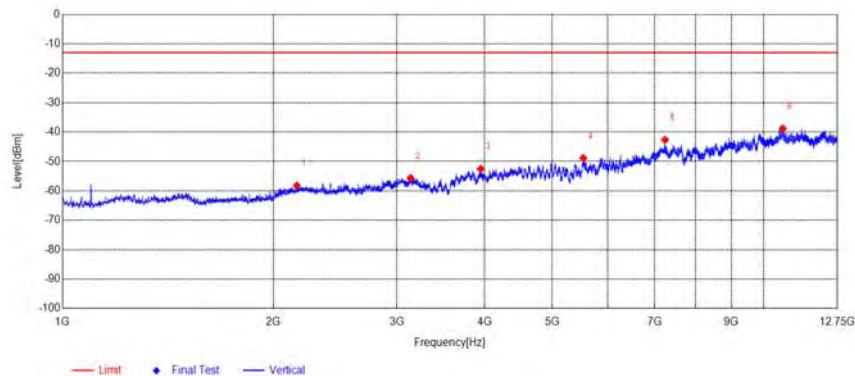
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	1757.6263	-58.21	-13.00	Horizontal	PASS
2	3048.6748	-55.53	-13.00	Horizontal	PASS
3	3794.6324	-52.73	-13.00	Horizontal	PASS
4	5117.3529	-50.18	-13.00	Horizontal	PASS
5	7143.8771	-44.71	-13.00	Horizontal	PASS
6	10661.7680	-38.75	-13.00	Horizontal	PASS



GSM850(EDGE), Low Channel



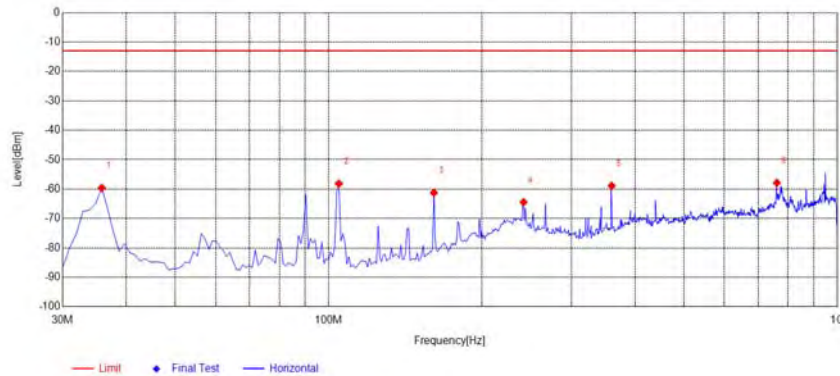
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	90.2002	-51.44	-13.00	Vertical	PASS
2	104.7648	-51.91	-13.00	Vertical	PASS
3	180.5005	-66.18	-13.00	Vertical	PASS
4	261.0911	-60.87	-13.00	Vertical	PASS
5	360.1301	-60.07	-13.00	Vertical	PASS
6	760.1702	-55.48	-13.00	Vertical	PASS



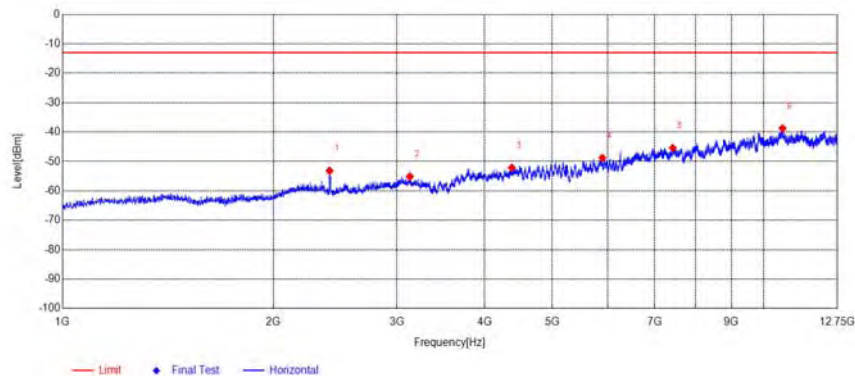
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2159.3599	-58.23	-13.00	Vertical	PASS
2	3137.8563	-55.71	-13.00	Vertical	PASS
3	3951.3252	-52.53	-13.00	Vertical	PASS
4	5534.0890	-48.86	-13.00	Vertical	PASS
5	7238.3876	-42.65	-13.00	Vertical	PASS
6	10652.7670	-38.84	-13.00	Vertical	PASS



GSM850(EDGE), Mid Channel



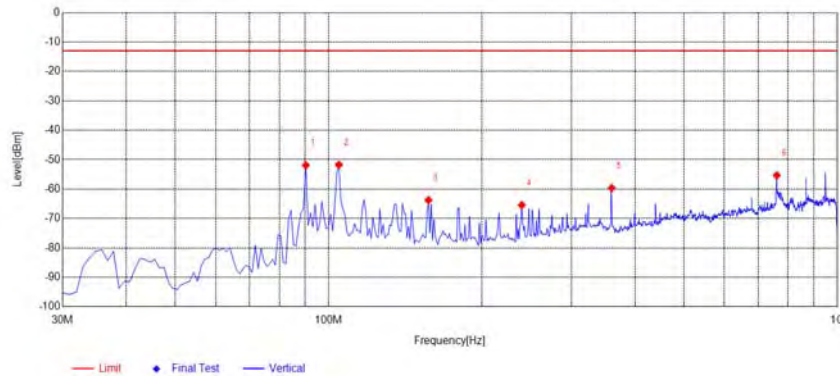
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	35.8258	-59.59	-13.00	Horizontal	PASS
2	104.7648	-58.16	-13.00	Horizontal	PASS
3	161.0811	-61.24	-13.00	Horizontal	PASS
4	241.6717	-64.44	-13.00	Horizontal	PASS
5	360.1301	-58.89	-13.00	Horizontal	PASS
6	760.1702	-57.89	-13.00	Horizontal	PASS



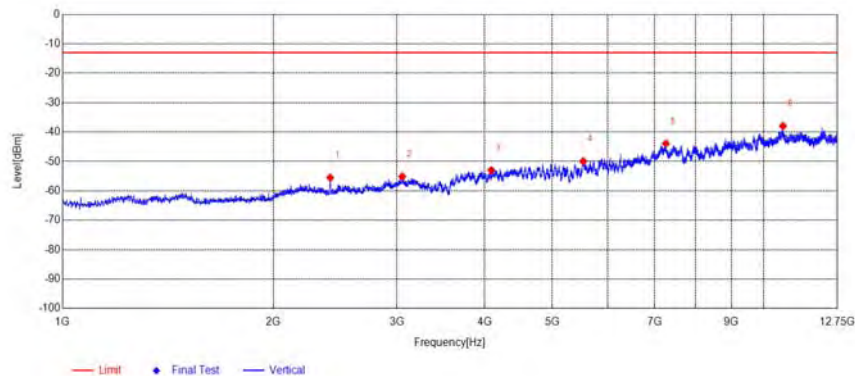
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2404.4007	-53.14	-13.00	Horizontal	PASS
2	3129.5216	-55.10	-13.00	Horizontal	PASS
3	4375.5626	-52.11	-13.00	Horizontal	PASS
4	5890.8151	-48.76	-13.00	Horizontal	PASS
5	7423.6582	-45.40	-13.00	Horizontal	PASS
6	10649.0166	-38.74	-13.00	Horizontal	PASS



GSM850(EDGE), Mid Channel



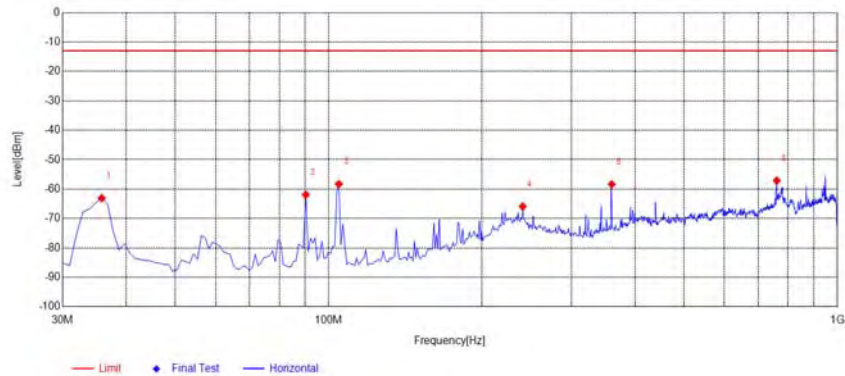
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	90.2002	-51.90	-13.00	Vertical	PASS
2	104.7648	-51.69	-13.00	Vertical	PASS
3	157.1972	-63.75	-13.00	Vertical	PASS
4	239.7297	-65.44	-13.00	Vertical	PASS
5	360.1301	-59.68	-13.00	Vertical	PASS
6	760.1702	-55.34	-13.00	Vertical	PASS



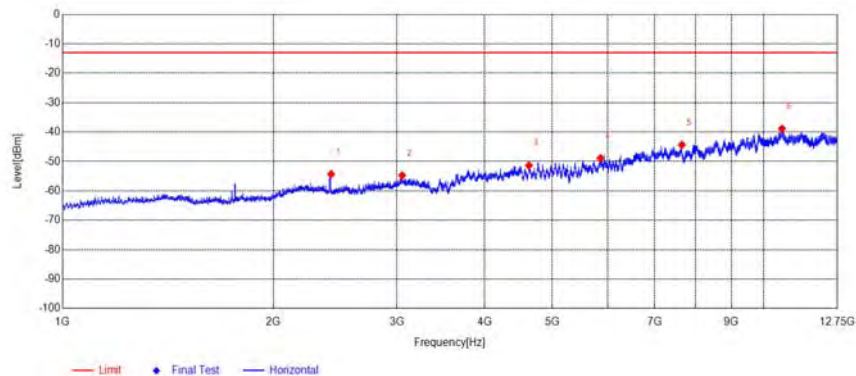
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2409.4016	-55.52	-13.00	Vertical	PASS
2	3052.8421	-55.11	-13.00	Vertical	PASS
3	4090.5151	-52.98	-13.00	Vertical	PASS
4	5531.5886	-49.93	-13.00	Vertical	PASS
5	7257.8898	-43.94	-13.00	Vertical	PASS
6	10664.7683	-37.96	-13.00	Vertical	PASS



GSM850(EDGE), High Channel



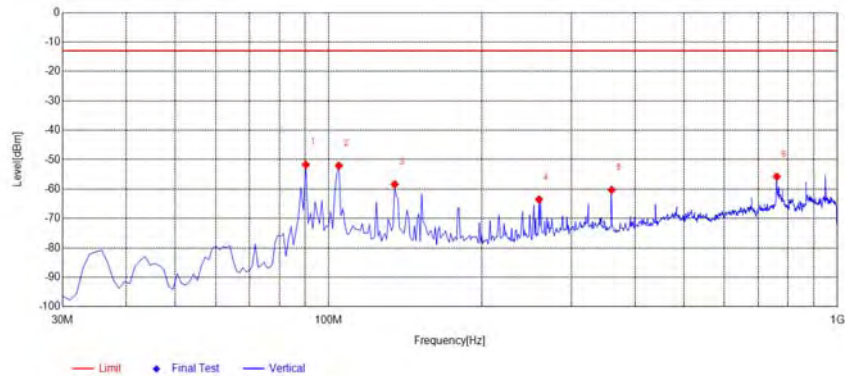
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	35.8258	-63.10	-13.00	Horizontal	PASS
2	90.2002	-61.91	-13.00	Horizontal	PASS
3	104.7648	-58.28	-13.00	Horizontal	PASS
4	240.7007	-65.91	-13.00	Horizontal	PASS
5	360.1301	-58.37	-13.00	Horizontal	PASS
6	760.1702	-57.15	-13.00	Horizontal	PASS



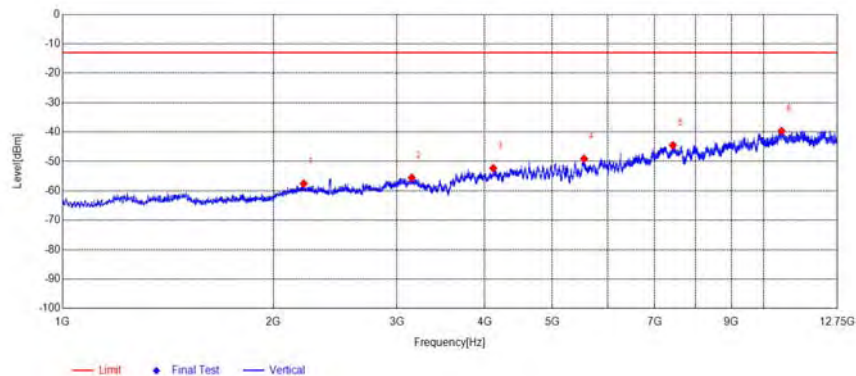
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2416.9028	-54.30	-13.00	Horizontal	PASS
2	3051.1752	-54.76	-13.00	Horizontal	PASS
3	4628.9382	-51.37	-13.00	Horizontal	PASS
4	5855.8093	-48.86	-13.00	Horizontal	PASS
5	7647.1830	-44.38	-13.00	Horizontal	PASS
6	10627.2641	-38.88	-13.00	Horizontal	PASS



GSM850(EDGE), High Channel



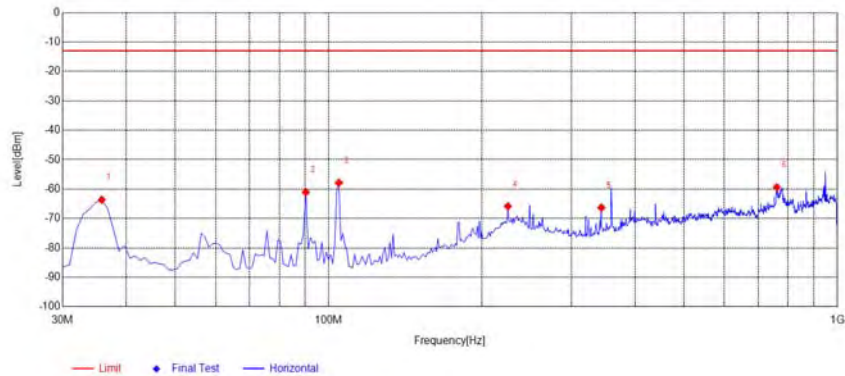
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	90.2002	-51.67	-13.00	Vertical	PASS
2	104.7648	-52.03	-13.00	Vertical	PASS
3	134.8649	-58.39	-13.00	Vertical	PASS
4	259.1491	-63.52	-13.00	Vertical	PASS
5	360.1301	-60.25	-13.00	Vertical	PASS
6	760.1702	-55.78	-13.00	Vertical	PASS



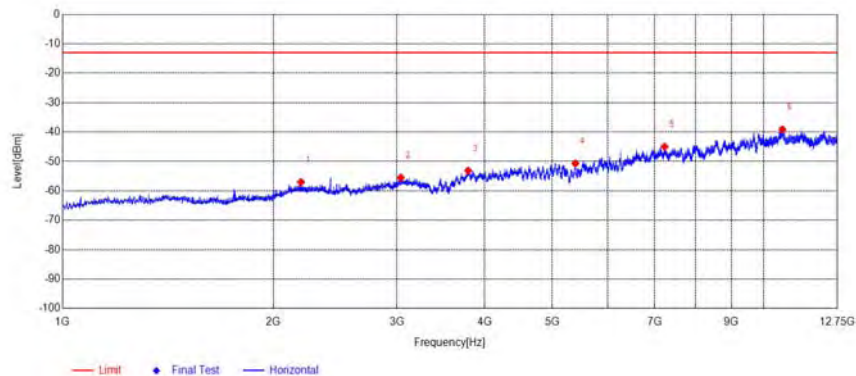
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2208.5348	-57.54	-13.00	Vertical	PASS
2	3148.6914	-55.53	-13.00	Vertical	PASS
3	4117.1862	-52.28	-13.00	Vertical	PASS
4	5548.2580	-49.08	-13.00	Vertical	PASS
5	7428.9088	-44.48	-13.00	Vertical	PASS
6	10614.5127	-39.60	-13.00	Vertical	PASS



GSM1900(EDGE), Low Channel



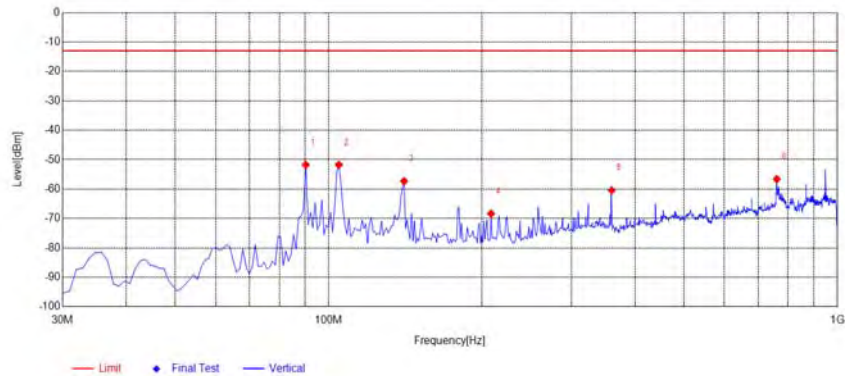
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	35.8258	-63.64	-13.00	Horizontal	PASS
2	90.2002	-61.05	-13.00	Horizontal	PASS
3	104.7648	-57.85	-13.00	Horizontal	PASS
4	225.1652	-65.86	-13.00	Horizontal	PASS
5	343.6236	-66.32	-13.00	Horizontal	PASS
6	760.1702	-59.37	-13.00	Horizontal	PASS



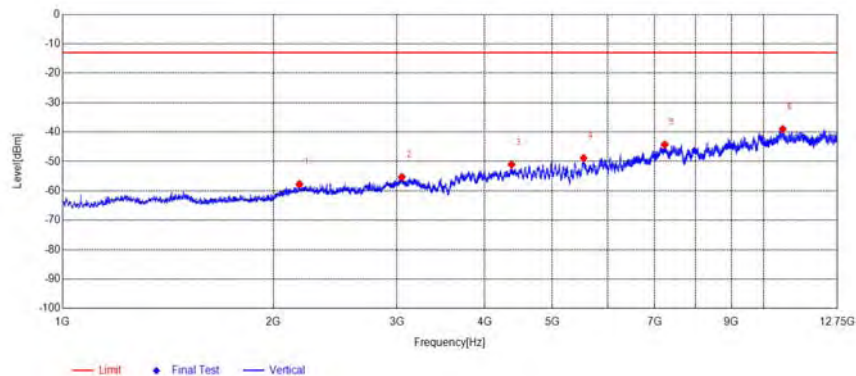
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2188.5314	-57.03	-13.00	Horizontal	PASS
2	3037.8396	-55.50	-13.00	Horizontal	PASS
3	3792.1320	-53.12	-13.00	Horizontal	PASS
4	5392.3987	-50.66	-13.00	Horizontal	PASS
5	7227.1363	-44.99	-13.00	Horizontal	PASS
6	10640.0156	-39.10	-13.00	Horizontal	PASS



GSM1900(EDGE), Low Channel



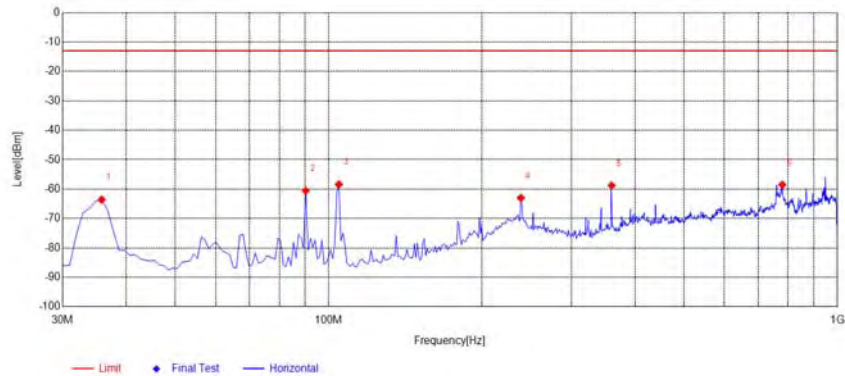
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	90.2002	-51.75	-13.00	Vertical	PASS
2	104.7648	-51.70	-13.00	Vertical	PASS
3	140.6907	-57.32	-13.00	Vertical	PASS
4	208.6587	-68.37	-13.00	Vertical	PASS
5	360.1301	-60.40	-13.00	Vertical	PASS
6	760.1702	-56.62	-13.00	Vertical	PASS



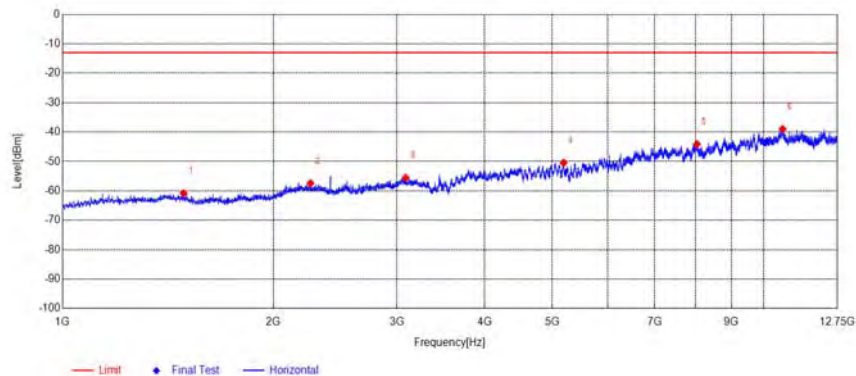
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2177.6963	-57.75	-13.00	Vertical	PASS
2	3048.6748	-55.27	-13.00	Vertical	PASS
3	4371.3952	-51.03	-13.00	Vertical	PASS
4	5539.9233	-48.83	-13.00	Vertical	PASS
5	7228.6365	-44.27	-13.00	Vertical	PASS
6	10653.5171	-39.00	-13.00	Vertical	PASS



GSM1900(EDGE), Mid Channel



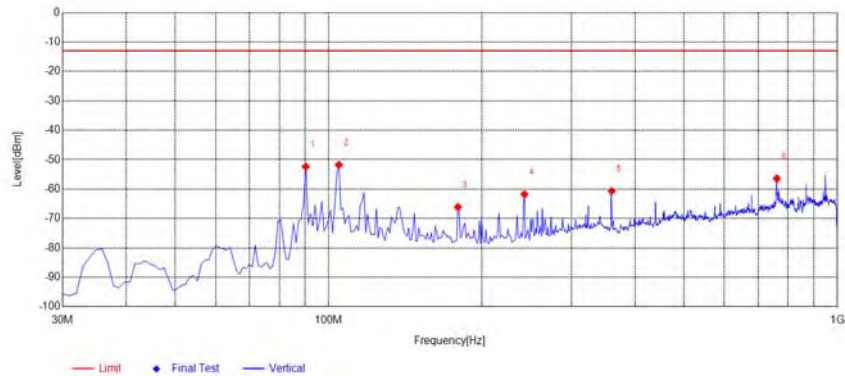
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	35.8258	-63.59	-13.00	Horizontal	PASS
2	90.2002	-60.60	-13.00	Horizontal	PASS
3	104.7648	-58.41	-13.00	Horizontal	PASS
4	238.7588	-63.01	-13.00	Horizontal	PASS
5	360.1301	-58.79	-13.00	Horizontal	PASS
6	779.5896	-58.53	-13.00	Horizontal	PASS



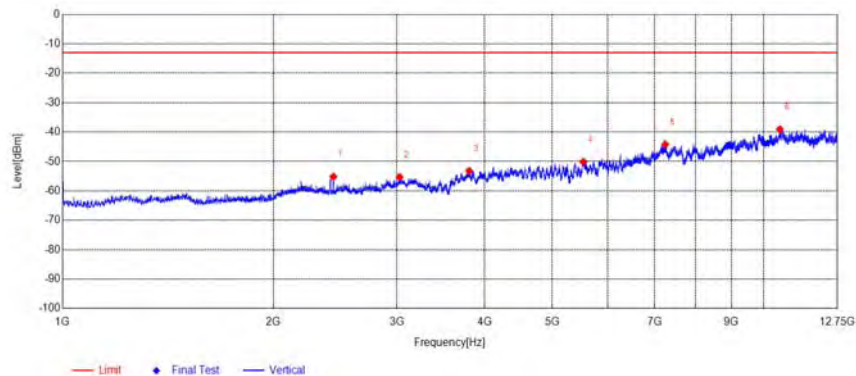
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	1488.4147	-60.84	-13.00	Horizontal	PASS
2	2257.7096	-57.46	-13.00	Horizontal	PASS
3	3087.0145	-55.60	-13.00	Horizontal	PASS
4	5186.5311	-50.47	-13.00	Horizontal	PASS
5	8040.2267	-44.11	-13.00	Horizontal	PASS
6	10652.7670	-38.97	-13.00	Horizontal	PASS



GSM1900(EDGE), Mid Channel



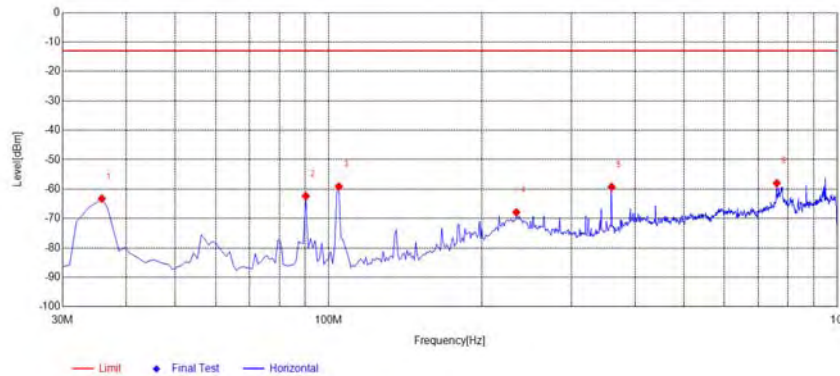
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	90.2002	-52.40	-13.00	Vertical	PASS
2	104.7648	-51.75	-13.00	Vertical	PASS
3	179.5295	-66.12	-13.00	Vertical	PASS
4	242.6426	-61.77	-13.00	Vertical	PASS
5	360.1301	-60.72	-13.00	Vertical	PASS
6	760.1702	-56.44	-13.00	Vertical	PASS



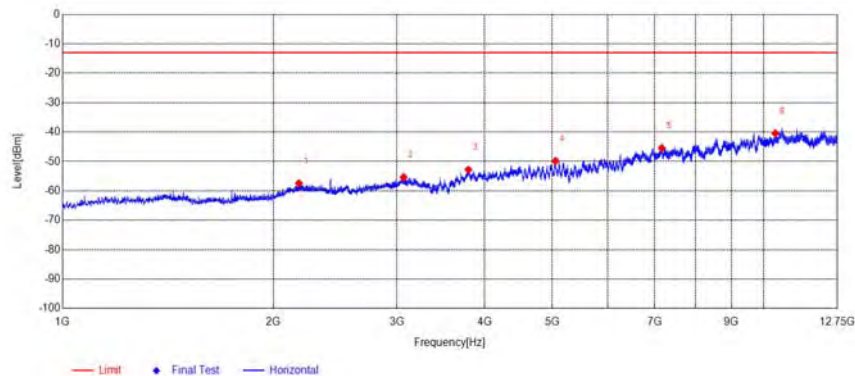
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2434.4057	-55.19	-13.00	Vertical	PASS
2	3026.1710	-55.32	-13.00	Vertical	PASS
3	3802.9672	-53.23	-13.00	Vertical	PASS
4	5535.7560	-50.12	-13.00	Vertical	PASS
5	7245.1383	-44.22	-13.00	Vertical	PASS
6	10552.2558	-39.08	-13.00	Vertical	PASS



GSM1900(EDGE), High Channel



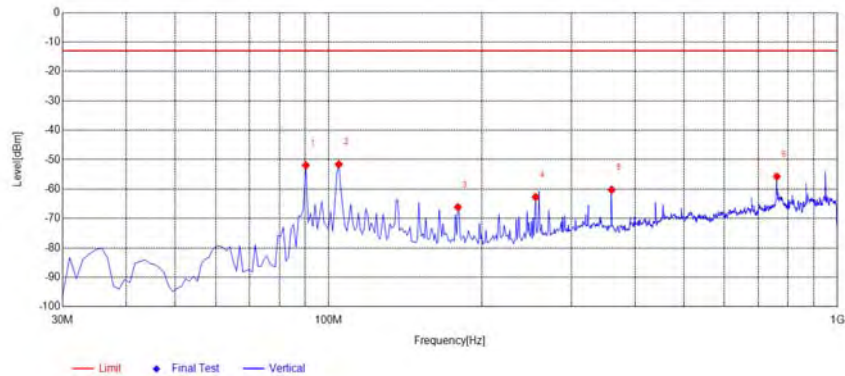
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	35.8258	-63.25	-13.00	Horizontal	PASS
2	90.2002	-62.41	-13.00	Horizontal	PASS
3	104.7648	-59.10	-13.00	Horizontal	PASS
4	233.9039	-67.90	-13.00	Horizontal	PASS
5	360.1301	-59.27	-13.00	Horizontal	PASS
6	760.1702	-58.03	-13.00	Horizontal	PASS



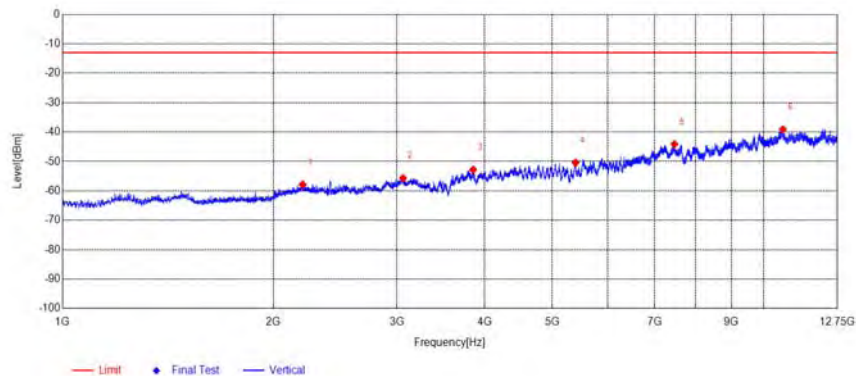
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2174.3624	-57.43	-13.00	Horizontal	PASS
2	3066.1777	-55.37	-13.00	Horizontal	PASS
3	3794.6324	-52.80	-13.00	Horizontal	PASS
4	5051.5086	-49.82	-13.00	Horizontal	PASS
5	7160.3789	-45.48	-13.00	Horizontal	PASS
6	10399.2388	-40.42	-13.00	Horizontal	PASS



GSM1900(EDGE), High Channel



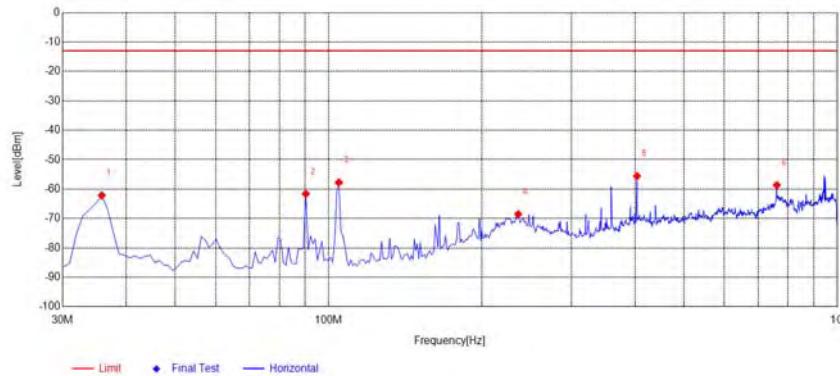
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	90.2002	-51.93	-13.00	Vertical	PASS
2	104.7648	-51.56	-13.00	Vertical	PASS
3	179.5295	-66.16	-13.00	Vertical	PASS
4	255.2653	-62.71	-13.00	Vertical	PASS
5	360.1301	-60.23	-13.00	Vertical	PASS
6	760.1702	-55.74	-13.00	Vertical	PASS



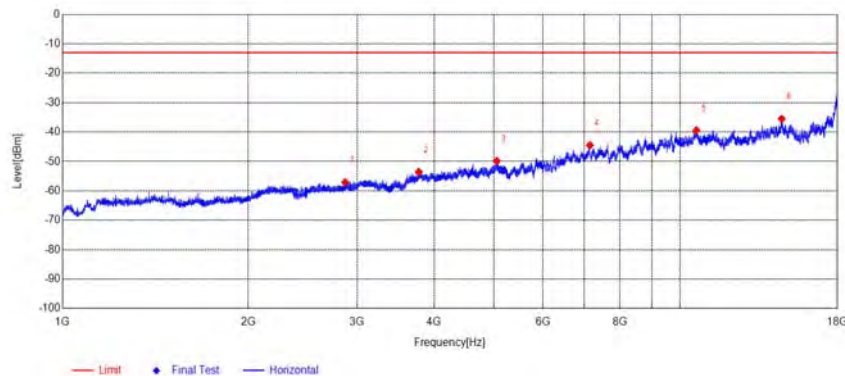
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2201.0335	-57.83	-13.00	Vertical	PASS
2	3060.3434	-55.69	-13.00	Vertical	PASS
3	3853.8090	-52.78	-13.00	Vertical	PASS
4	5394.8992	-50.39	-13.00	Vertical	PASS
5	7461.9124	-44.14	-13.00	Vertical	PASS
6	10661.0179	-39.09	-13.00	Vertical	PASS



WCDMA Band V(WCDMA), Low Channel



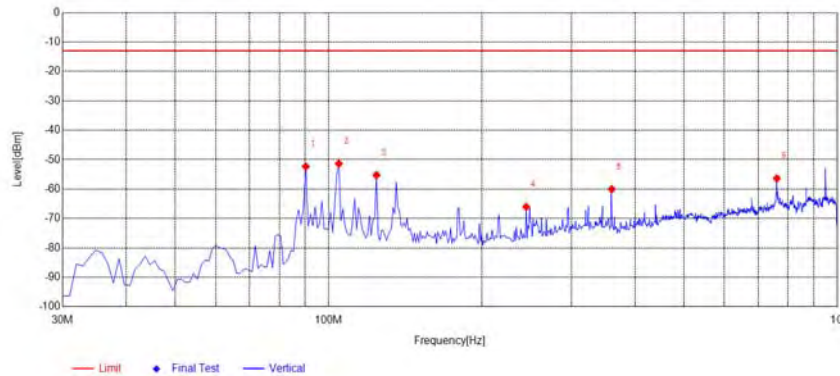
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	35.8258	-62.14	-13.00	Horizontal	PASS
2	90.2002	-61.62	-13.00	Horizontal	PASS
3	104.7648	-57.76	-13.00	Horizontal	PASS
4	235.8458	-68.56	-13.00	Horizontal	PASS
5	403.8238	-55.58	-13.00	Horizontal	PASS
6	760.1702	-58.66	-13.00	Horizontal	PASS



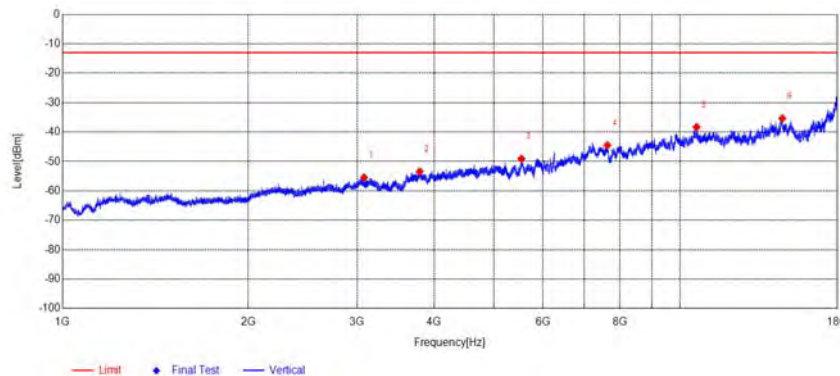
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2870.6871	-57.07	-13.00	Horizontal	PASS
2	3777.7778	-53.58	-13.00	Horizontal	PASS
3	5053.4053	-49.83	-13.00	Horizontal	PASS
4	7148.5149	-44.48	-13.00	Horizontal	PASS
5	10639.6640	-39.41	-13.00	Horizontal	PASS
6	14625.2625	-35.54	-13.00	Horizontal	PASS



WCDMA Band V(WCDMA), Low Channel



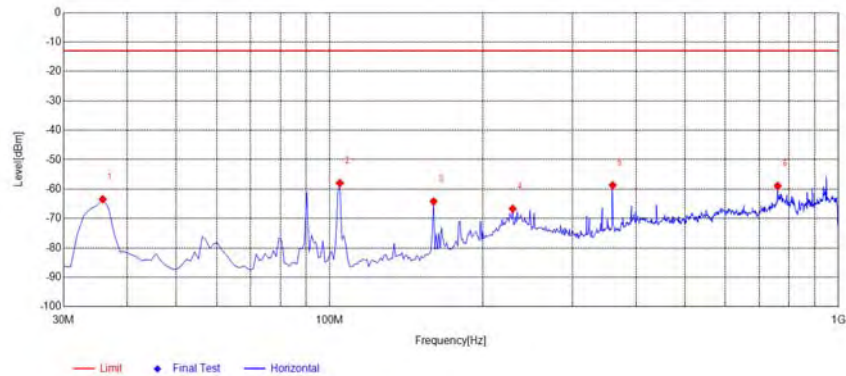
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	90.2002	-52.33	-13.00	Vertical	PASS
2	104.7648	-51.34	-13.00	Vertical	PASS
3	124.1842	-55.24	-13.00	Vertical	PASS
4	244.5846	-66.03	-13.00	Vertical	PASS
5	360.1301	-60.01	-13.00	Vertical	PASS
6	760.1702	-56.36	-13.00	Vertical	PASS



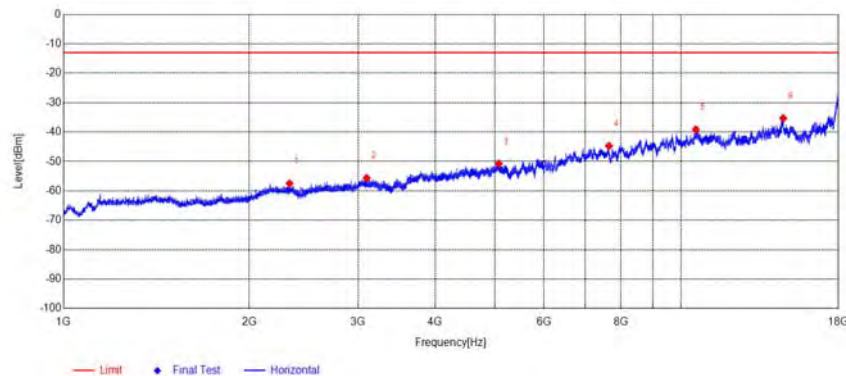
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	3079.7080	-55.46	-13.00	Vertical	PASS
2	3789.7790	-53.42	-13.00	Vertical	PASS
3	5539.4539	-49.06	-13.00	Vertical	PASS
4	7632.1632	-44.50	-13.00	Vertical	PASS
5	10646.8647	-38.32	-13.00	Vertical	PASS
6	14661.2661	-35.36	-13.00	Vertical	PASS



WCDMA Band V(WCDMA), Mid Channel



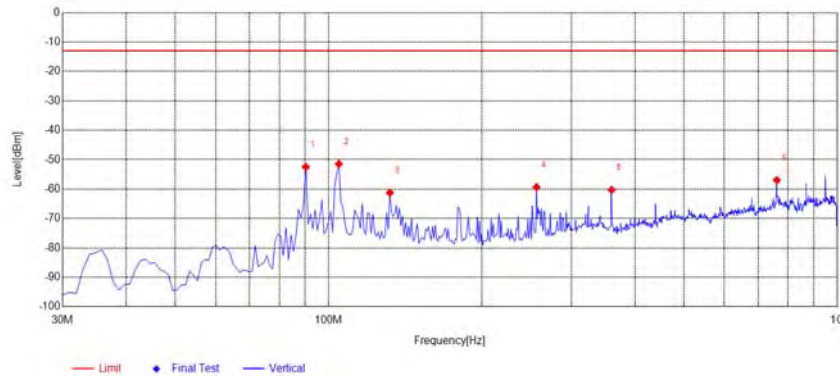
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	35.8258	-63.45	-13.00	Horizontal	PASS
2	104.7648	-57.96	-13.00	Horizontal	PASS
3	160.1101	-64.20	-13.00	Horizontal	PASS
4	229.0490	-66.70	-13.00	Horizontal	PASS
5	360.1301	-58.67	-13.00	Horizontal	PASS
6	760.1702	-58.95	-13.00	Horizontal	PASS



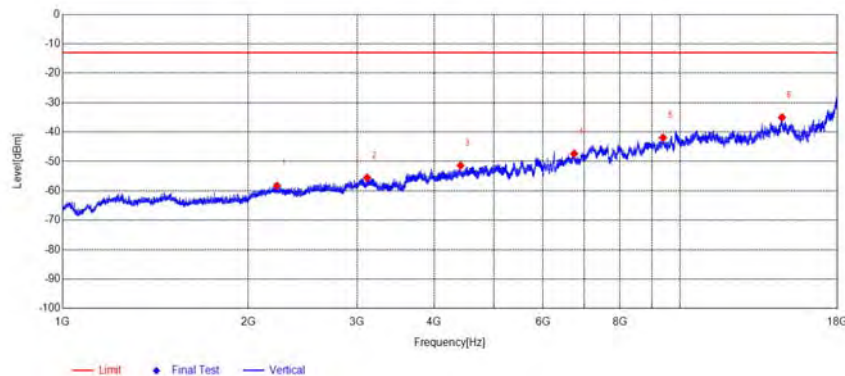
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2323.6324	-57.48	-13.00	Horizontal	PASS
2	3098.2098	-55.67	-13.00	Horizontal	PASS
3	5072.9073	-50.75	-13.00	Horizontal	PASS
4	7650.1650	-44.71	-13.00	Horizontal	PASS
5	10576.0576	-39.13	-13.00	Horizontal	PASS
6	14652.8653	-35.31	-13.00	Horizontal	PASS



WCDMA Band V(WCDMA), Mid Channel



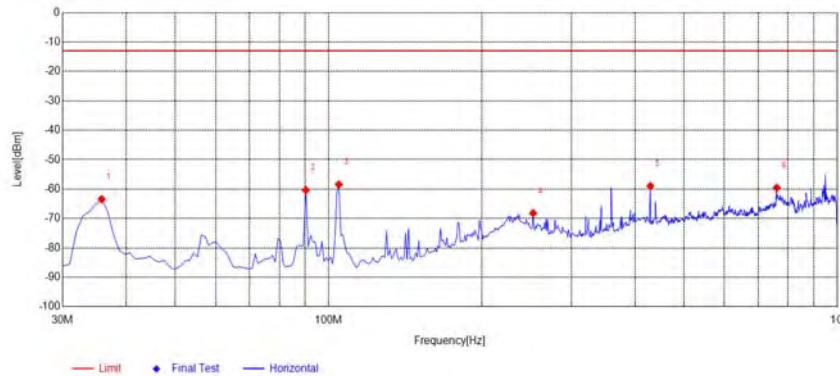
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	90.2002	-52.48	-13.00	Vertical	PASS
2	104.7648	-51.45	-13.00	Vertical	PASS
3	131.9520	-61.25	-13.00	Vertical	PASS
4	256.2362	-59.33	-13.00	Vertical	PASS
5	360.1301	-60.25	-13.00	Vertical	PASS
6	760.1702	-56.98	-13.00	Vertical	PASS



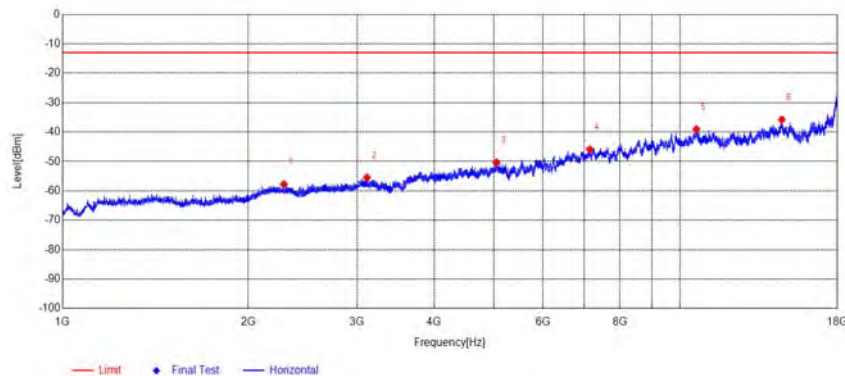
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2224.1224	-58.26	-13.00	Vertical	PASS
2	3113.2113	-55.53	-13.00	Vertical	PASS
3	4414.3414	-51.39	-13.00	Vertical	PASS
4	6744.0744	-47.35	-13.00	Vertical	PASS
5	9391.5392	-41.91	-13.00	Vertical	PASS
6	14638.4638	-35.02	-13.00	Vertical	PASS



WCDMA Band V(WCDMA), High Channel



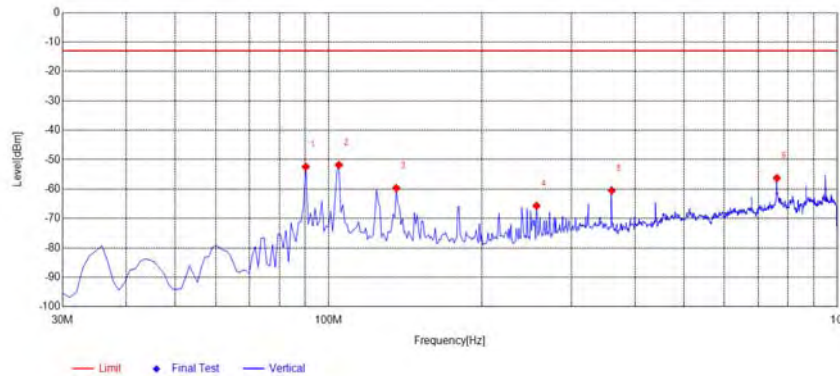
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	35.8258	-63.44	-13.00	Horizontal	PASS
2	90.2002	-60.36	-13.00	Horizontal	PASS
3	104.7648	-58.43	-13.00	Horizontal	PASS
4	252.3524	-68.21	-13.00	Horizontal	PASS
5	429.0691	-58.97	-13.00	Horizontal	PASS
6	760.1702	-59.56	-13.00	Horizontal	PASS



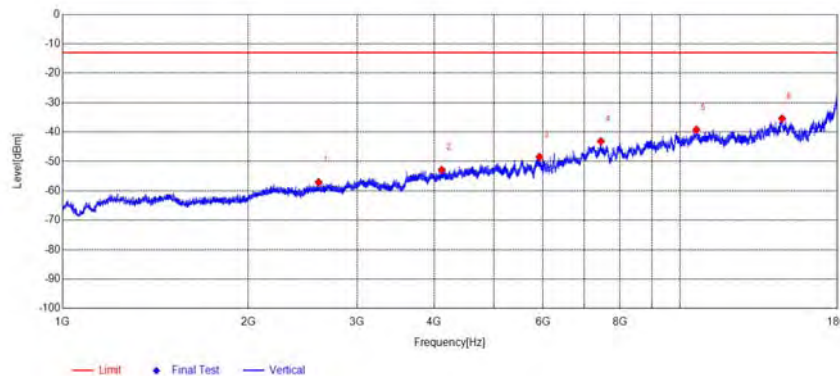
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2282.6283	-57.73	-13.00	Horizontal	PASS
2	3113.7114	-55.48	-13.00	Horizontal	PASS
3	5043.4043	-50.33	-13.00	Horizontal	PASS
4	7149.7150	-45.89	-13.00	Horizontal	PASS
5	10637.2637	-39.04	-13.00	Horizontal	PASS
6	14625.2625	-35.79	-13.00	Horizontal	PASS



WCDMA Band V(WCDMA), High Channel



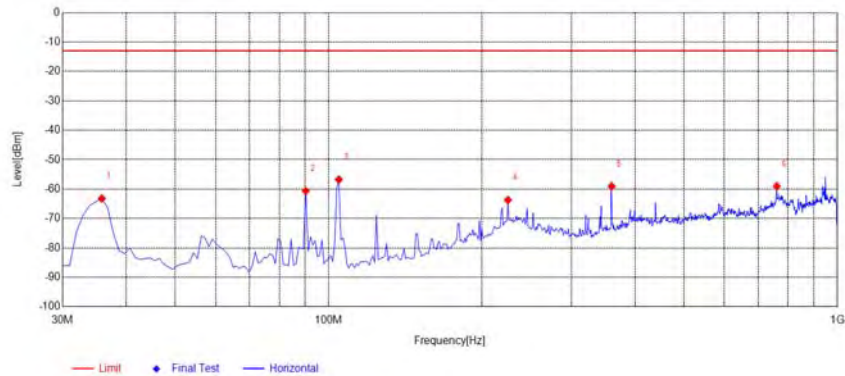
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	90.2002	-52.42	-13.00	Vertical	PASS
2	104.7648	-51.78	-13.00	Vertical	PASS
3	135.8358	-59.66	-13.00	Vertical	PASS
4	256.2362	-65.68	-13.00	Vertical	PASS
5	360.1301	-60.48	-13.00	Vertical	PASS
6	760.1702	-56.27	-13.00	Vertical	PASS



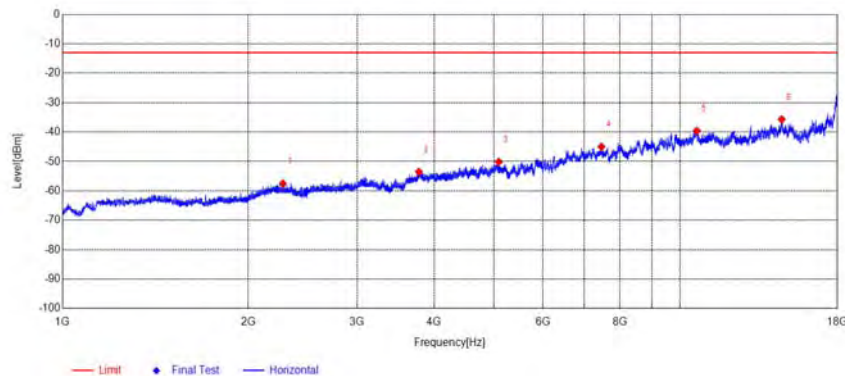
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2600.1600	-57.04	-13.00	Vertical	PASS
2	4114.8115	-52.85	-13.00	Vertical	PASS
3	5922.4922	-48.49	-13.00	Vertical	PASS
4	7447.3447	-43.15	-13.00	Vertical	PASS
5	10636.0636	-39.18	-13.00	Vertical	PASS
6	14640.8641	-35.43	-13.00	Vertical	PASS



WCDMA Band II(WCDMA), Low Channel



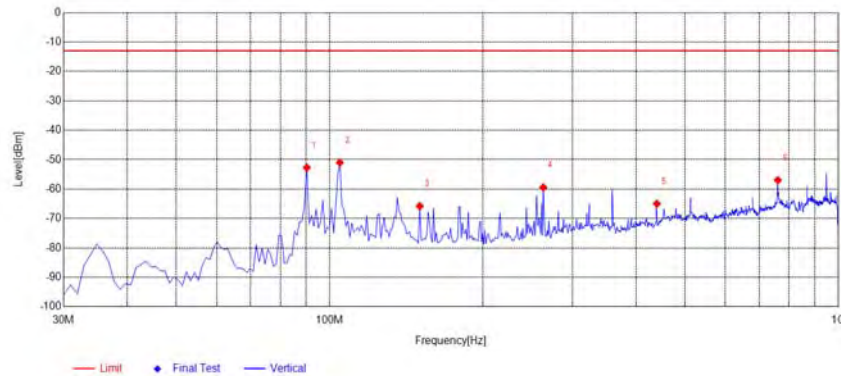
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	35.8258	-63.22	-13.00	Horizontal	PASS
2	90.2002	-60.63	-13.00	Horizontal	PASS
3	104.7648	-56.74	-13.00	Horizontal	PASS
4	225.1652	-63.71	-13.00	Horizontal	PASS
5	360.1301	-59.05	-13.00	Horizontal	PASS
6	760.1702	-59.03	-13.00	Horizontal	PASS



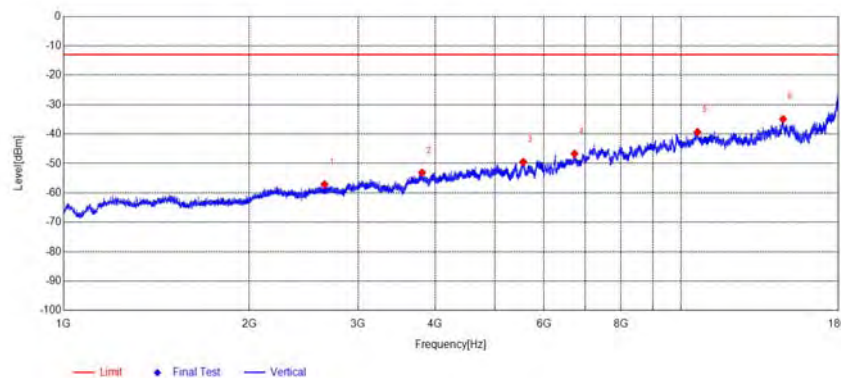
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2274.6275	-57.51	-13.00	Horizontal	PASS
2	3779.7780	-53.51	-13.00	Horizontal	PASS
3	5088.4088	-50.15	-13.00	Horizontal	PASS
4	7465.3465	-45.04	-13.00	Horizontal	PASS
5	10656.4656	-39.54	-13.00	Horizontal	PASS
6	14622.8623	-35.71	-13.00	Horizontal	PASS



WCDMA Band II(WCDMA), Low Channel



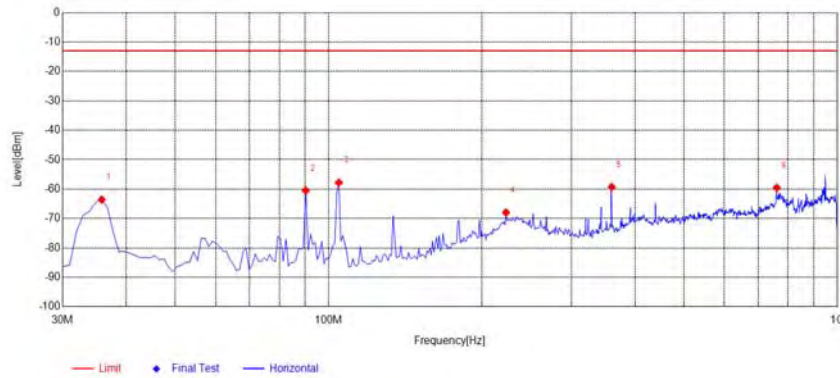
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	90.2002	-52.73	-13.00	Vertical	PASS
2	104.7648	-51.01	-13.00	Vertical	PASS
3	150.4004	-65.77	-13.00	Vertical	PASS
4	263.0330	-59.45	-13.00	Vertical	PASS
5	439.7498	-65.01	-13.00	Vertical	PASS
6	760.1702	-56.99	-13.00	Vertical	PASS



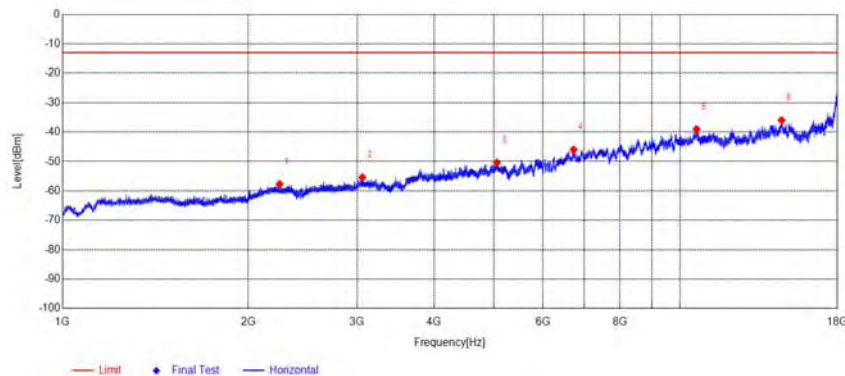
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2647.1647	-57.11	-13.00	Vertical	PASS
2	3808.7809	-53.10	-13.00	Vertical	PASS
3	5555.9556	-49.49	-13.00	Vertical	PASS
4	6727.2727	-46.71	-13.00	Vertical	PASS
5	10644.4644	-39.32	-13.00	Vertical	PASS
6	14643.2643	-34.89	-13.00	Vertical	PASS



WCDMA Band II(WCDMA), Mid Channel



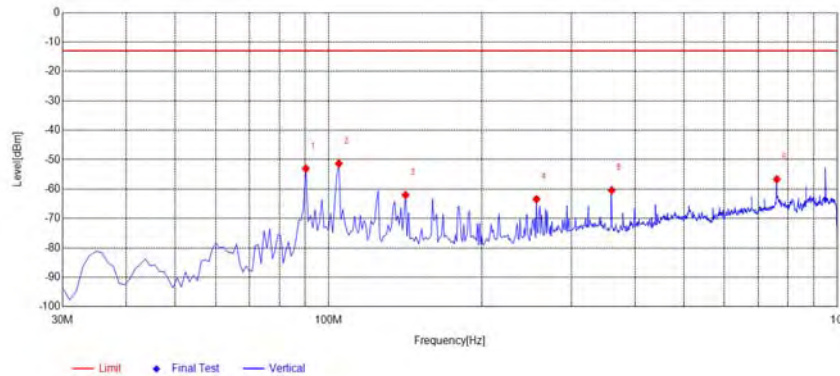
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	35.8258	-63.59	-13.00	Horizontal	PASS
2	90.2002	-60.49	-13.00	Horizontal	PASS
3	104.7648	-57.81	-13.00	Horizontal	PASS
4	223.2232	-67.96	-13.00	Horizontal	PASS
5	360.1301	-59.31	-13.00	Horizontal	PASS
6	760.1702	-59.53	-13.00	Horizontal	PASS



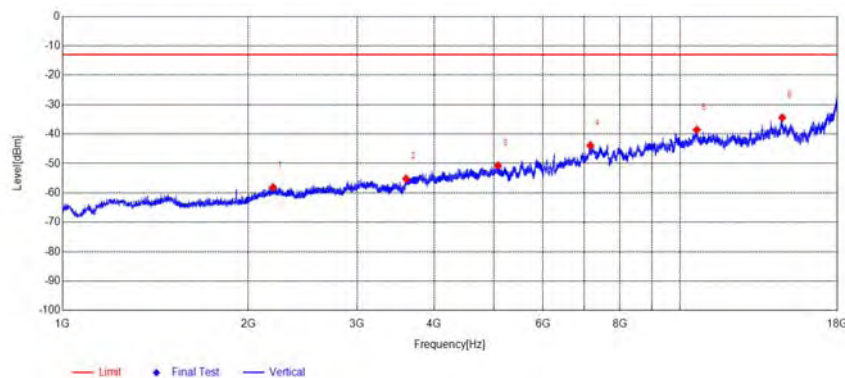
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2247.1247	-57.73	-13.00	Horizontal	PASS
2	3060.7061	-55.44	-13.00	Horizontal	PASS
3	5054.4054	-50.43	-13.00	Horizontal	PASS
4	6730.8731	-46.01	-13.00	Horizontal	PASS
5	10648.0648	-39.03	-13.00	Horizontal	PASS
6	14622.8623	-36.02	-13.00	Horizontal	PASS



WCDMA Band II(WCDMA), Mid Channel



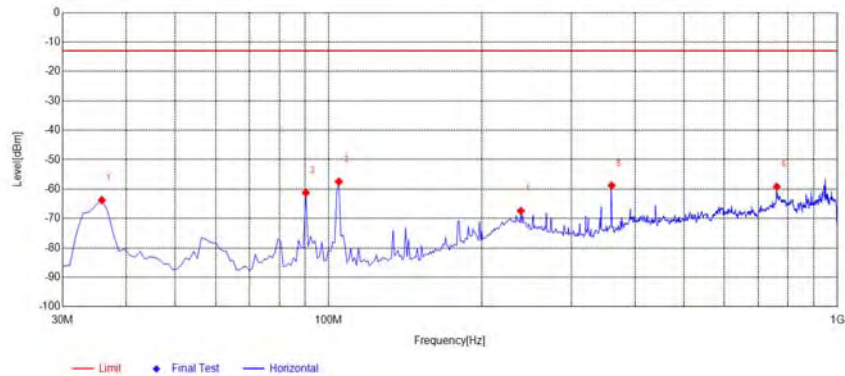
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	90.2002	-53.03	-13.00	Vertical	PASS
2	104.7648	-51.31	-13.00	Vertical	PASS
3	141.6617	-61.97	-13.00	Vertical	PASS
4	256.2362	-63.44	-13.00	Vertical	PASS
5	360.1301	-60.38	-13.00	Vertical	PASS
6	760.1702	-56.66	-13.00	Vertical	PASS



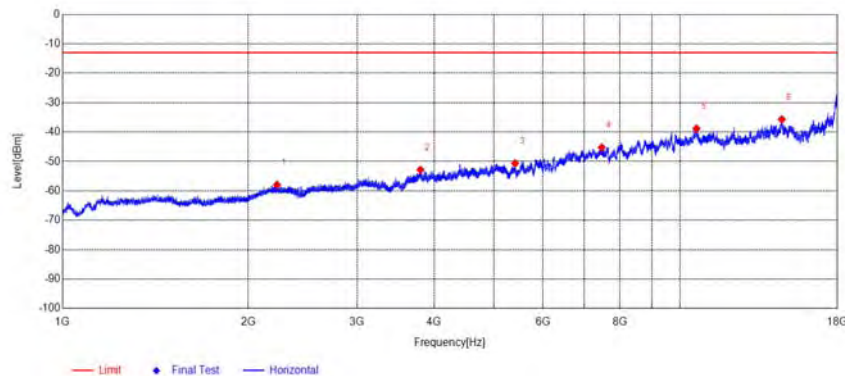
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2192.1192	-58.11	-13.00	Vertical	PASS
2	3603.2603	-55.20	-13.00	Vertical	PASS
3	5073.4073	-50.69	-13.00	Vertical	PASS
4	7164.1164	-43.89	-13.00	Vertical	PASS
5	10654.0654	-38.54	-13.00	Vertical	PASS
6	14654.0654	-34.43	-13.00	Vertical	PASS



WCDMA Band II(WCDMA), High Channel



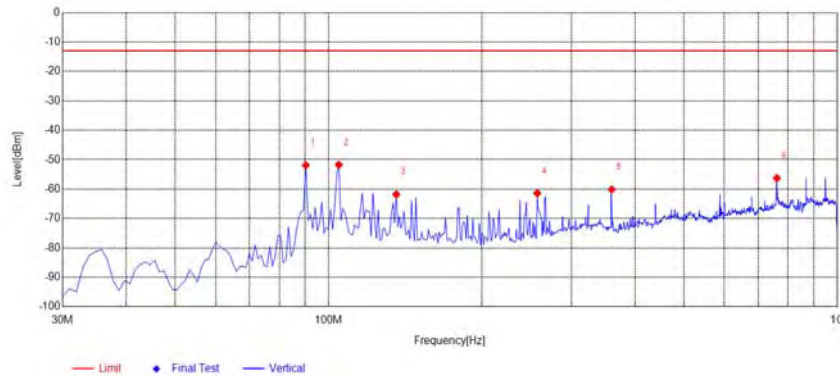
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	35.8258	-63.78	-13.00	Horizontal	PASS
2	90.2002	-61.26	-13.00	Horizontal	PASS
3	104.7648	-57.47	-13.00	Horizontal	PASS
4	238.7588	-67.44	-13.00	Horizontal	PASS
5	360.1301	-58.79	-13.00	Horizontal	PASS
6	760.1702	-59.22	-13.00	Horizontal	PASS



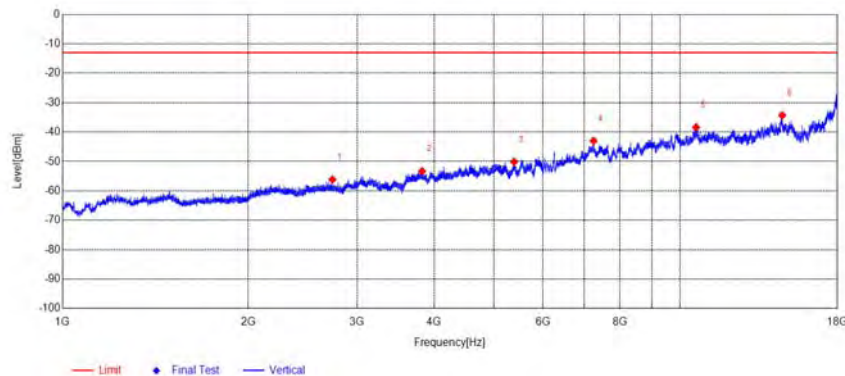
No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2225.6226	-57.92	-13.00	Horizontal	PASS
2	3800.2800	-52.86	-13.00	Horizontal	PASS
3	5409.9410	-50.65	-13.00	Horizontal	PASS
4	7473.7474	-45.24	-13.00	Horizontal	PASS
5	10642.0642	-38.80	-13.00	Horizontal	PASS
6	14628.8629	-35.72	-13.00	Horizontal	PASS



WCDMA Band II(WCDMA), High Channel



No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	90.2002	-51.90	-13.00	Vertical	PASS
2	104.7648	-51.70	-13.00	Vertical	PASS
3	135.8358	-61.78	-13.00	Vertical	PASS
4	257.2072	-61.43	-13.00	Vertical	PASS
5	360.1301	-60.12	-13.00	Vertical	PASS
6	760.1702	-56.31	-13.00	Vertical	PASS



No.	Fre.(MHz)	Level (dBm)	Limit (dBm)	Antenna	Verdict
1	2736.1736	-56.17	-13.00	Vertical	PASS
2	3824.2824	-53.33	-13.00	Vertical	PASS
3	5389.4389	-50.11	-13.00	Vertical	PASS
4	7251.7252	-42.99	-13.00	Vertical	PASS
5	10627.6628	-38.39	-13.00	Vertical	PASS
6	14651.6652	-34.32	-13.00	Vertical	PASS





Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test Items	Uncertainty
Output Power	$\pm 2.22\text{dB}$
Bandwidth	$\pm 5\%$
Conducted Spurious Emission	$\pm 2.77\text{dB}$
Radiated Emission	$\pm 2.95\text{dB}$

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.





Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.





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4. Test Equipment Utilized

4.1 Conducted Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY51511149	N9020A	Agilent	2024.06.19	2025.06.18
Communication Test Station	6200995016	MT8820C	Anritsu	2024.09.11	2025.09.10
Temperature Chamber	S022177101 00089002	KMT-36LF 1A0	KOMEG	2024.09.11	2025.09.10

4.2 List of Software Used

Description	Manufacturer	Software Version
TS+ -[JS36-RSE]	Tonscend	V3.0.0.0



**4.3 Radiated Test Equipment**

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
System Simulator	152038	CMW500	R&S	2024.09.11	2025.09.10
Receiver	MY56060145	N9020A	Agilent	2024.05.30	2025.05.29
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna - Horn	9120D-963	BBHA 9120D	Schwarzbeck	2024.06.22	2025.06.21
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-K K-0.5	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-K KF-2	Qualwave	2024.07.03	2025.07.02
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118- 40C-S	Decentest	2024.05.30	2025.05.29
Notch Filter	N/A	WRCG-GSM 850	Wainwright	N/A	N/A
Notch Filter	N/A	WRCG-GSM 1900	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV-W Band V	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV-W Band II	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV-W Band IV	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.05.10	2025.05.09

END OF REPORT

