



REPORT No.: SZ26040105Y01

TEST REPORT

APPLICANT : Power Idea Technology
(Shenzhen) Co., Ltd.

PRODUCT NAME : POC RADIO

MODEL NAME : PRM01G

BRAND NAME : RugGear

FCC ID : ZLE-PRM01G

STANDARD(S) : 47 CFR Part 2
47 CFR Part 22 Subpart H
47 CFR Part 24 Subpart E
47 CFR Part 27 Subpart L

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DIRECTORY

1. Technical Information	3
1.1. Applicant and Manufacturer Information	3
1.2. Equipment Under Test (EUT) Description	3
1.3. Maximum E.R.P./E.I.R.P. and Emission Designator	5
1.4. Test Standards and Results	6
1.5. Environmental Conditions	7
2. 47 CFR Part 2, 22H, 24E and 27L Requirements	8
2.1. Conducted RF Output Power	8
2.2. Peak to Average Ratio	11
2.3. Occupied Bandwidth	16
2.4. Frequency Stability	24
2.5. Conducted Out of Band Emissions	29
2.6. Band Edge	36
2.7. Determining E.R.P. and/or E.I.R.P. from conducted RF output power measurements	40
2.8. Radiated Out of Band Emissions	43
Annex A Test Uncertainty	82
Annex B Testing Laboratory Information	83
Notes	87

Change History		
Version	Date	Reason for change
1.0	2026-09-23	First edition

Note: the latest revision of the report supersedes all previous version.





1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Power Idea Technology (Shenzhen) Co., Ltd.
Applicant Address:	B1504, 1505, 1506, 1507, Building 9, Zone 2, Shenzhen Bay Science and Technology Ecological Park, No. 3609 Baishi Road, High tech Zone Community, Yuehai Street, Nanshan District, Shenzhen City, China
Manufacturer:	Power Idea Technology (Shenzhen) Co., Ltd.
Manufacturer Address:	B1504, 1505, 1506, 1507, Building 9, Zone 2, Shenzhen Bay Science and Technology Ecological Park, No. 3609 Baishi Road, High tech Zone Community, Yuehai Street, Nanshan District, Shenzhen City, China

1.2. Equipment Under Test (EUT) Description

Product Name:	POC RADIO	
Sample No.:	9#, 14#	
Hardware Version:	V1	
Software Version:	RG380_V1.0	
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	
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 IV	Tx: 1710MHz-1755MHz
		Rx: 2110MHz-2155MHz
Antenna Type:	Fixed External	





Antenna Gain:	GSM 850:	-2.00dBi
	GSM1900:	0.52dBi
	WCDMA Band V:	-2.00dBi
	WCDMA Band IV:	-0.23dBi

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 IV band used by the EUT can be represented with the formula $F(n)=1712.4+0.2*(n-1312)$, $1312 \leq n \leq 1513$; the lowest, middle and highest channel numbers (ARFCHs) used and tested in this report are separately 1312 (1712.4MHz), 1413 (1732.6MHz) and 1513 (1752.6MHz).

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;

GSMmode and EDGEmode for GSM 1900;

WCDMA mode for WCDMA band V;

WCDMA mode for WCDMA band IV;

Note 6: The EUT description presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information. 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)	0.773	247KGXW
GSM850(EDGE)	0.206	250KG7W
GSM1900(GSM)	1.148	245KGXW
GSM1900(EDGE)	0.430	251KG7W
WCDMA Band V	0.075	4M14F9W
WCDMA Band IV	0.195	4M15F9W





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 Engineer	Result	Remark
1	2.1046	Conducted RF Output Power	Zhang Yusheng Liu Huiyan	PASS	/
2	24.232(d)	Peak -Average Ratio	Liu Huiyan	PASS	/
3	2.1049	Occupied Bandwidth	Liu Huiyan	PASS	/
4	2.1055, 22.355, 24.235, 27.54	Frequency Stability	Liu Huiyan	PASS	/
5	2.1051, 22.917(a), 24.238(a), 27.53(h)	Conducted Out of Band Emissions	Liu Huiyan	PASS	/
6	2.1051, 22.917(a), 24.238(a), 27.53(h)	Band Edge	Liu Huiyan	PASS	/
7	22.913(a),24.232(c) 27.50(d)	Transmitter Radiated Power (E.I.P.R./E.R.P.)	Liu Huiyan	PASS	/
8	2.1051, 22.917(a), 24.238(a), 27.53(h)	Radiated Out of Band Emissions	Zhong Xiangyun Li Hanbin	PASS	/

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: Any additions, deviation, or exclusions from the method shall be noted in the "Remark".





Note 3: The antenna gain presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information.

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



2.47 CFR Part 2, 22H, 24E and 27L Requirements

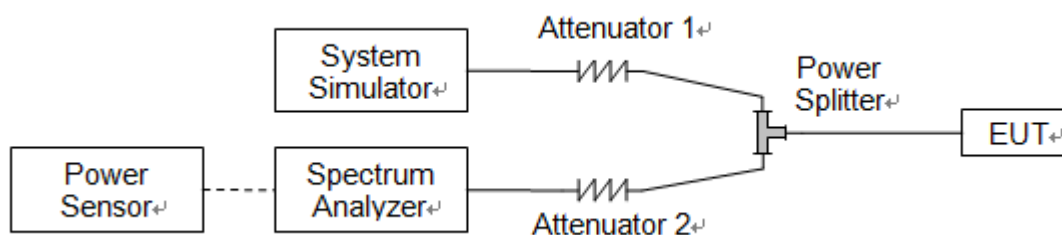
2.1. Conducted RF Output Power

2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

2.1.2. 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.



**2.1.3. Test Results**

GSM850	Average Power (dBm)		
TX Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
GSM 1 Tx slot	33.03	33.00	32.95
GPRS 1 Tx slot	33.00	32.78	32.67
GPRS 2 Tx slots	32.61	32.51	32.40
GPRS 3 Tx slots	32.18	32.17	32.04
GPRS 4 Tx slots	31.90	31.91	31.81
EDGE 1 Tx slot	27.29	27.24	27.14
EDGE 2 Tx slots	26.85	26.77	26.66
EDGE 3 Tx slots	26.39	26.30	26.23
EDGE 4 Tx slots	25.89	25.84	25.75

GSM1900	Average Power (dBm)		
TX Channel	512	661	810
Frequency (MHz)	1850.2	1880	1909.8
GSM 1 Tx slot	29.75	30.05	29.58
GPRS 1 Tx slot	29.72	30.08	29.48
GPRS 2 Tx slots	29.57	29.94	29.37
GPRS 3 Tx slots	29.46	29.81	29.24
GPRS 4 Tx slots	29.23	29.64	29.08
EDGE 1 Tx slot	25.80	25.81	25.75
EDGE 2 Tx slots	25.38	25.42	25.31
EDGE 3 Tx slots	24.98	24.92	24.83
EDGE 4 Tx slots	24.52	24.46	24.40





WCDMA Band V	Average Power (dBm)		
TX Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2Kbps	22.83	22.89	22.86
HSDPA Subtest-1	21.88	21.75	21.98
HSDPA Subtest-2	20.86	20.80	21.00
HSDPA Subtest-3	20.07	20.00	20.21
HSDPA Subtest-4	19.99	19.90	20.08
HSUPA Subtest-1	20.87	20.77	21.02
HSUPA Subtest-2	20.82	20.74	20.99
HSUPA Subtest-3	20.55	20.48	20.68
HSUPA Subtest-4	21.83	21.70	21.94
HSUPA Subtest-5	20.75	20.67	20.85

WCDMA Band IV	Average Power (dBm)		
TX Channel	1312	1413	1513
Frequency (MHz)	1712.4	1732.6	1752.6
RMC 12.2Kbps	23.03	23.14	23.07
HSDPA Subtest-1	21.73	22.07	22.12
HSDPA Subtest-2	20.76	21.10	21.13
HSDPA Subtest-3	19.98	20.30	20.36
HSDPA Subtest-4	19.87	20.19	20.24
HSUPA Subtest-1	20.73	21.07	21.11
HSUPA Subtest-2	20.72	21.05	21.09
HSUPA Subtest-3	20.46	20.75	20.82
HSUPA Subtest-4	21.70	22.04	22.09
HSUPA Subtest-5	20.63	20.95	21.00



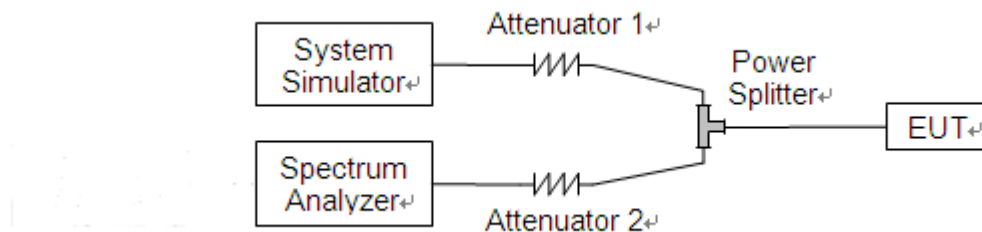
2.2. Peak to Average Ratio

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:

- Set RBW=1MHz, VBW=3MHz, peak detector in spectrum analyzer.
- Set EUT in maximum output power, and triggered the bust signal.
- Measured respectively the peak level and mean level, and the deviation was recorded as Peak to Average ratio.

2. For UMTS operating mode:

- Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1%.

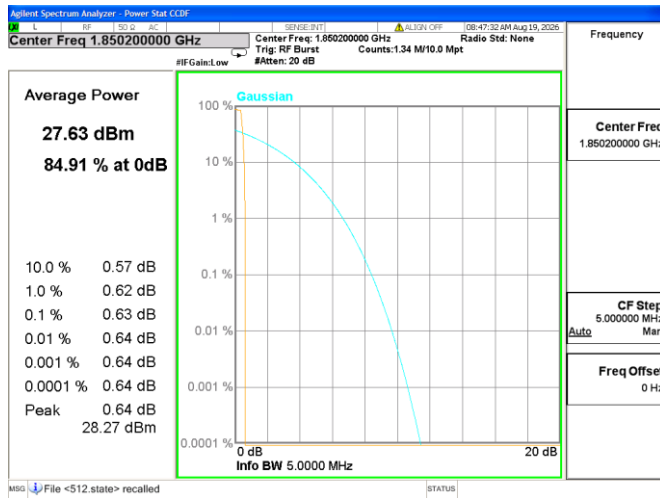
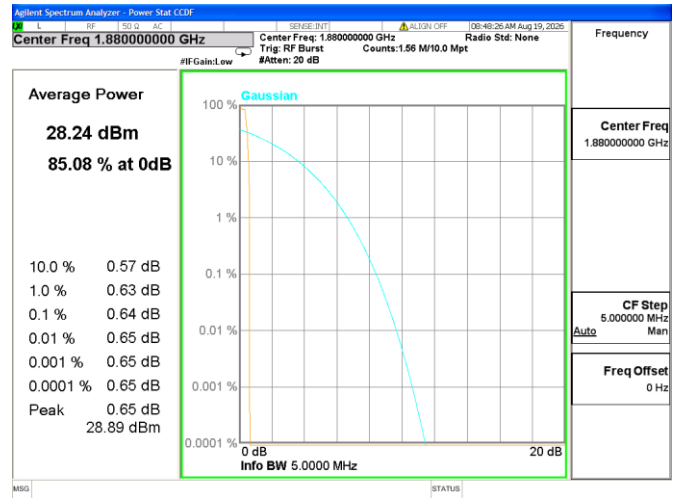
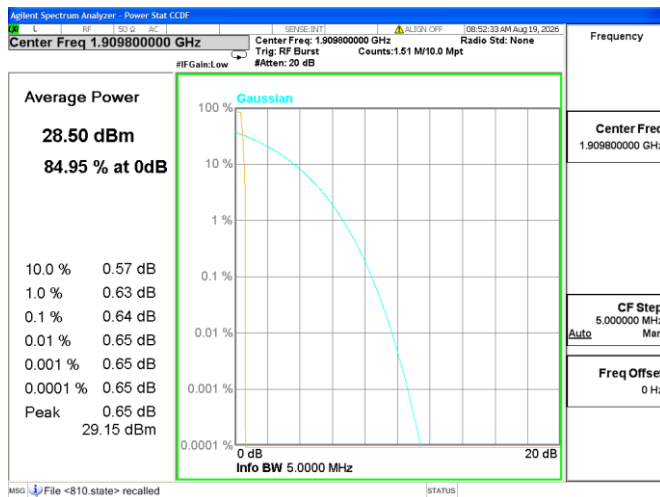


**2.2.4. Test Result****A. Test Verdict:**

GSM1900					
Mode	Channel	Frequency (MHz)	Peak to Average ratio (dB)	Limit (dB)	Verdict
GSM	512	1850.2	0.63	13	PASS
	661	1880.0	0.64		PASS
	810	1909.8	0.64		PASS
EDGE	512	1850.2	3.31		PASS
	661	1880.0	3.38		PASS
	810	1909.8	3.52		PASS

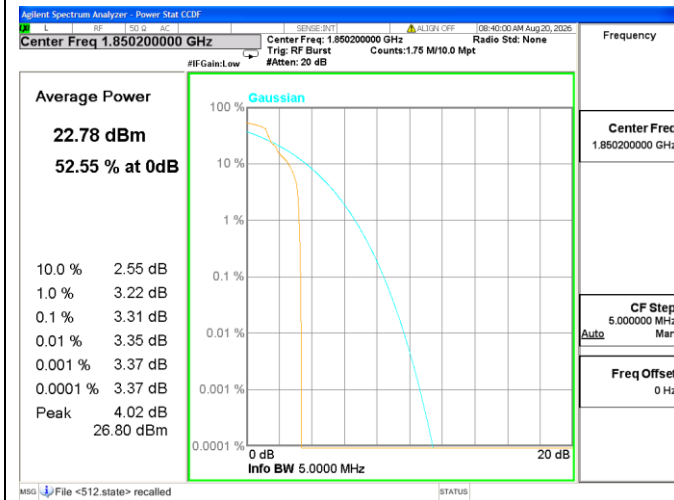
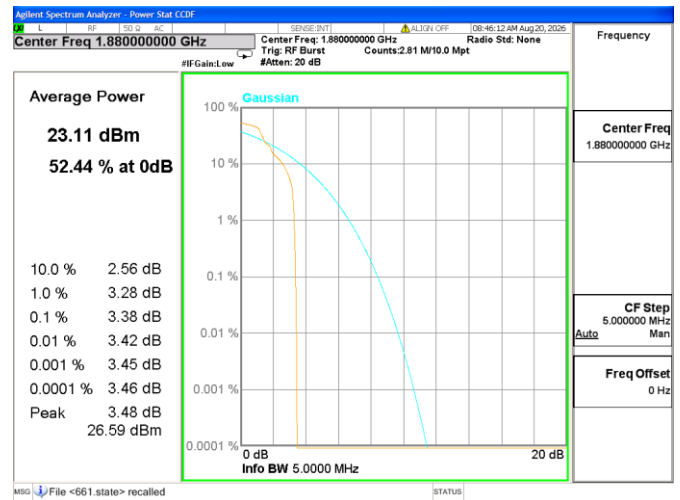
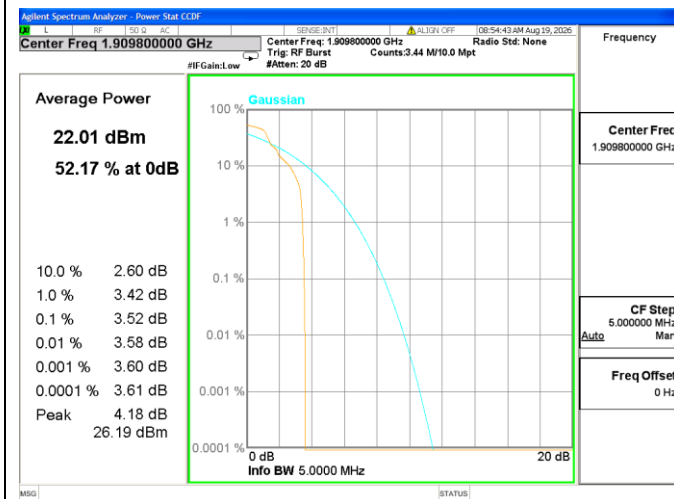
WCDMA Band IV					
Mode	Channel	Frequency (MHz)	Peak to Average ratio (dB)	Limit (dB)	Verdict
WCDMA	1312	1712.4	2.86	13	PASS
	1413	1732.6	2.71		PASS
	1513	1752.6	2.91		PASS



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

N/A



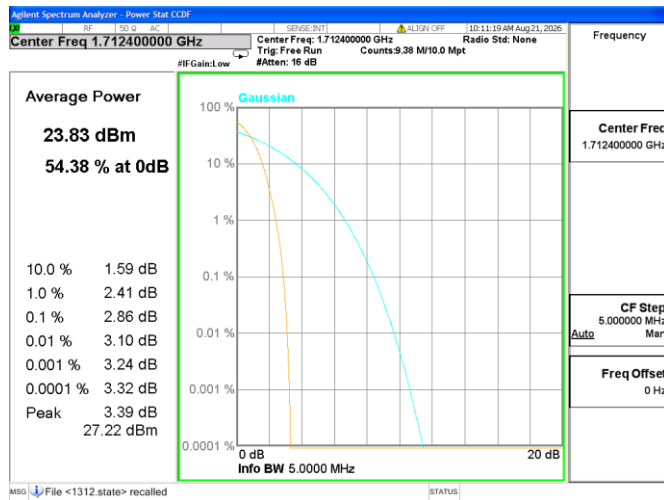
**GSM1900(EDGE), CH512, 1850.2MHz****GSM1900(EDGE), CH661, 1880.0MHz****GSM1900(EDGE), CH810, 1909.8MHz**

N/A

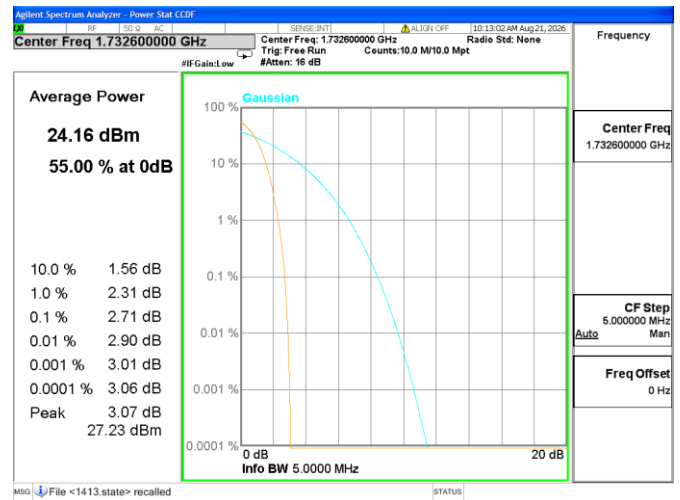




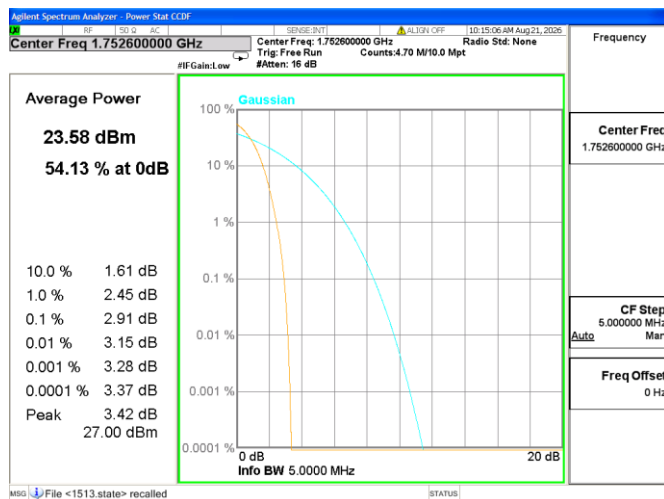
WCDMA Band IV, CH1312, 1712.4MHz



WCDMA Band IV, CH1413, 1732.6MHz



WCDMA Band IV, CH1513, 1752.6MHz



N/A



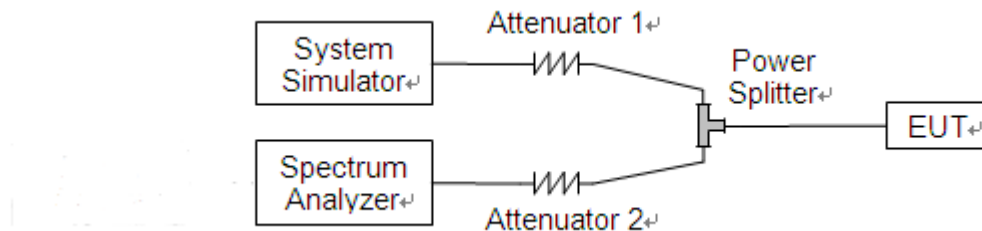
2.3. Occupied Bandwidth

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**

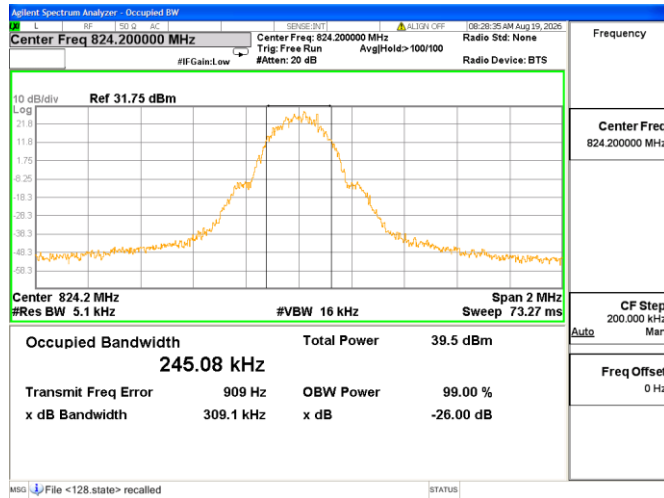
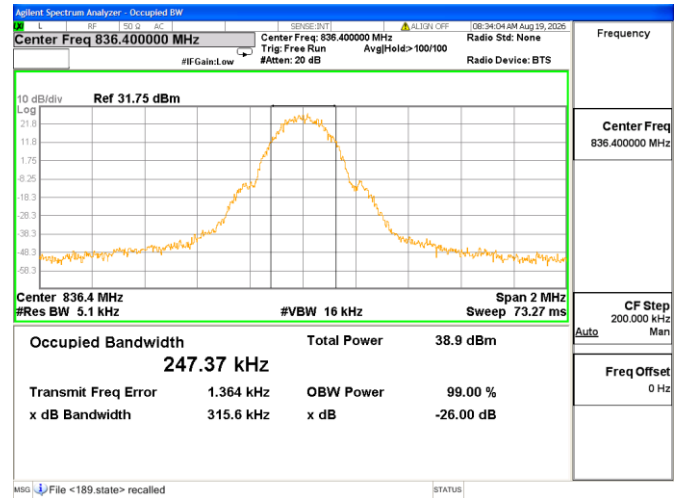
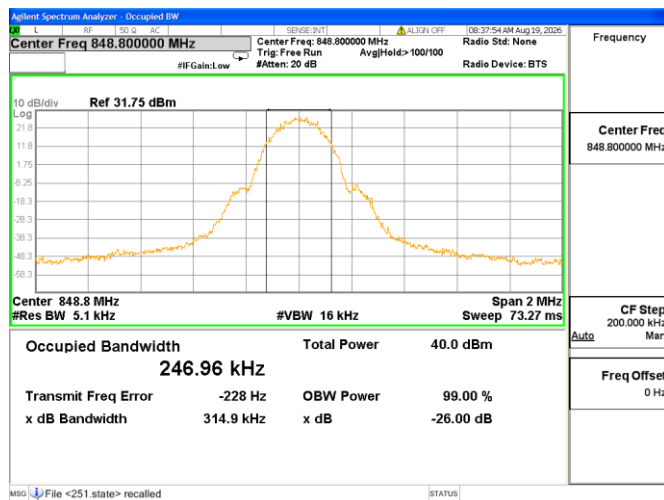
GSM850				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)
GSM	128	824.2	245.08	309.1
	189	836.4	247.37	315.6
	251	848.8	246.96	314.9
EDGE	128	824.2	244.53	309.9
	189	836.4	250.01	311.1
	251	848.8	246.03	306.0

GSM1900				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)
GSM	512	1850.2	243.20	311.5
	661	1880.0	245.08	315.2
	810	1909.8	243.54	314.8
EDGE	512	1850.2	246.83	310.2
	661	1880.0	250.78	316.5
	810	1909.8	248.19	307.1

WCDMA Band V				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
WCDMA	4132	826.4	4.14	4.73
	4182	836.4	4.14	4.72
	4233	846.6	4.14	4.75

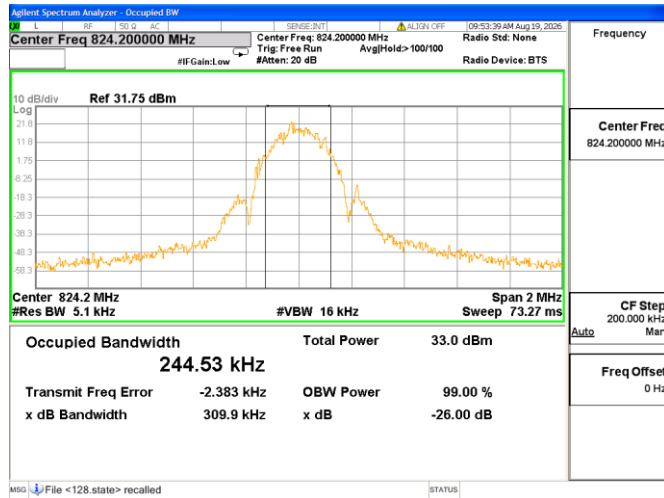
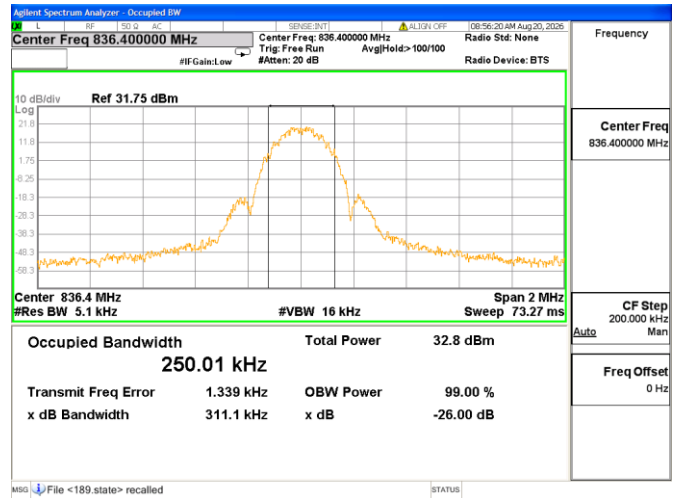
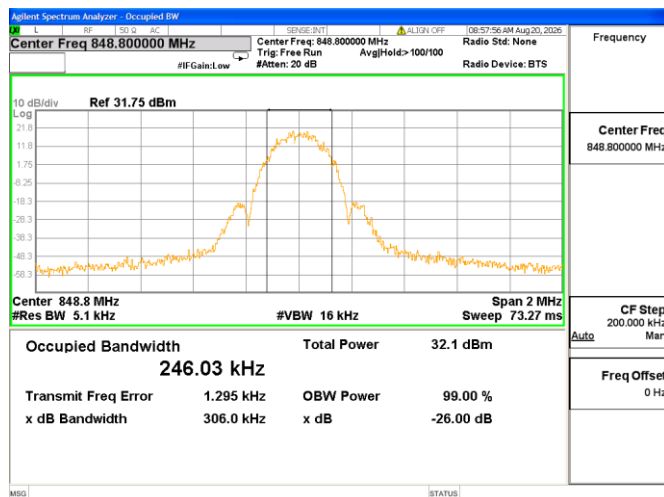
WCDMA Band IV				
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)
WCDMA	1312	1712.4	4.15	4.73
	1413	1732.6	4.14	4.73
	1513	1752.6	4.13	4.72



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

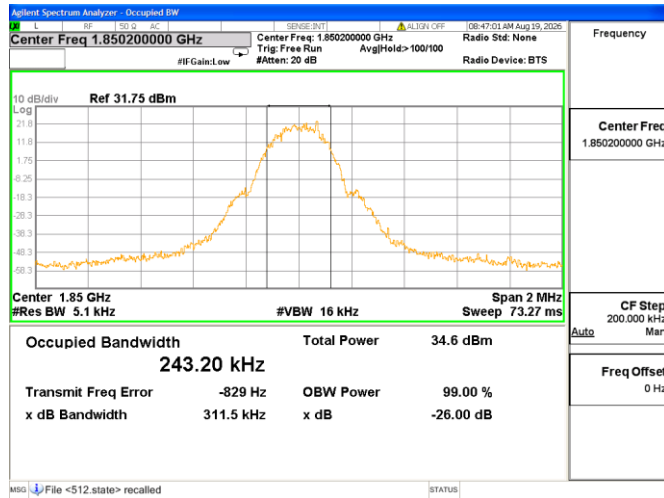
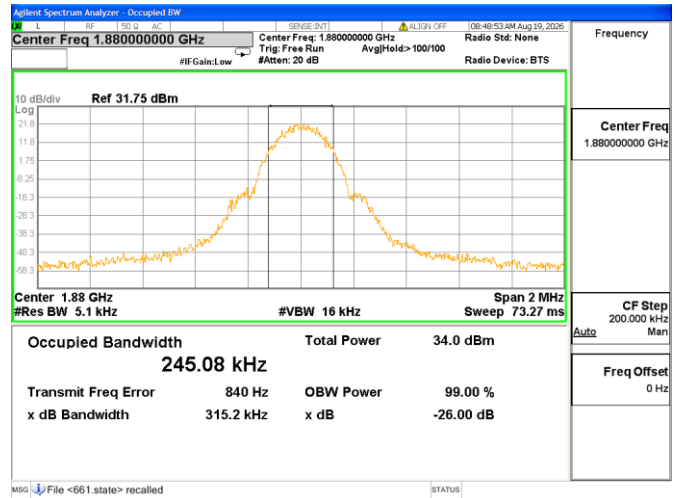
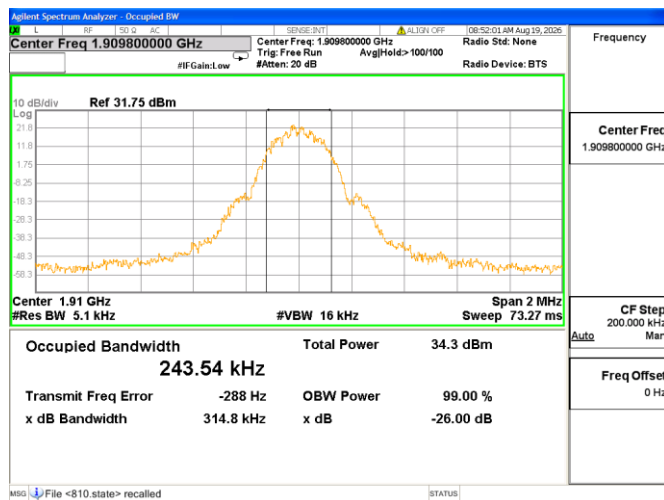
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**GSM850(EDGE), CH128, 824.2MHz****GSM850(EDGE), CH189, 836.4MHz****GSM850(EDGE), CH251, 848.8MHz**

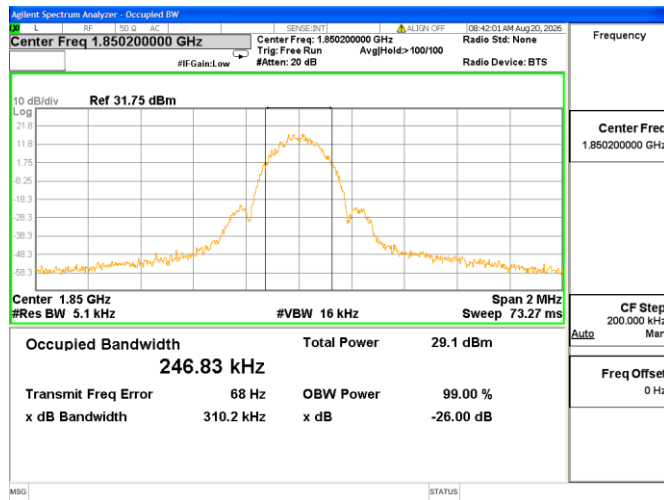
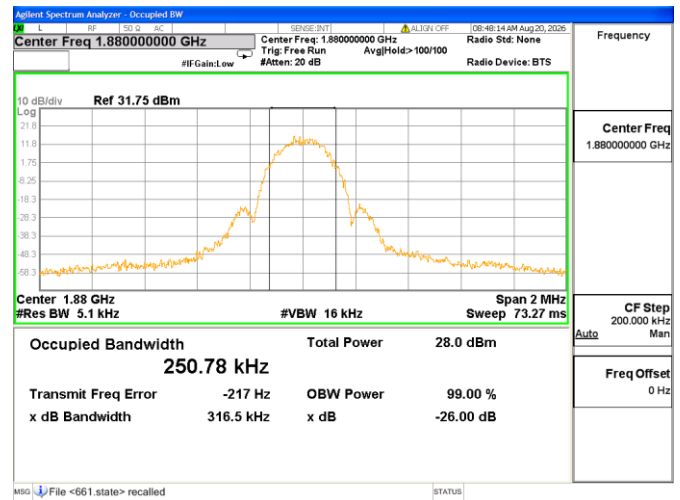
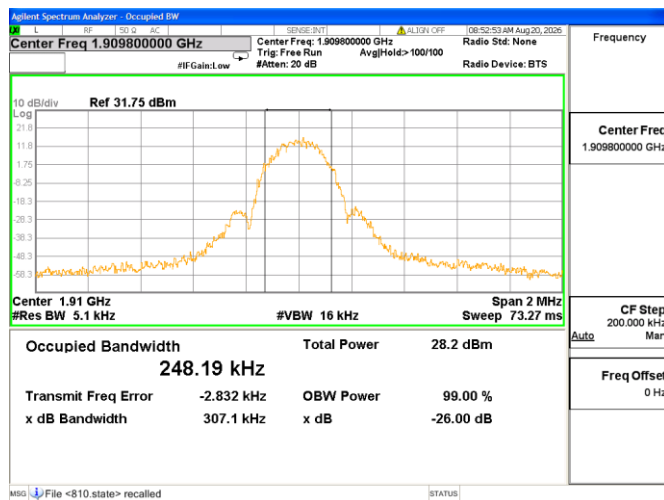
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**GSM1900(GSM), CH512, 1850.2MHz****GSM1900(GSM), CH661, 1880.0MHz****GSM1900(GSM), CH810, 1909.8MHz**

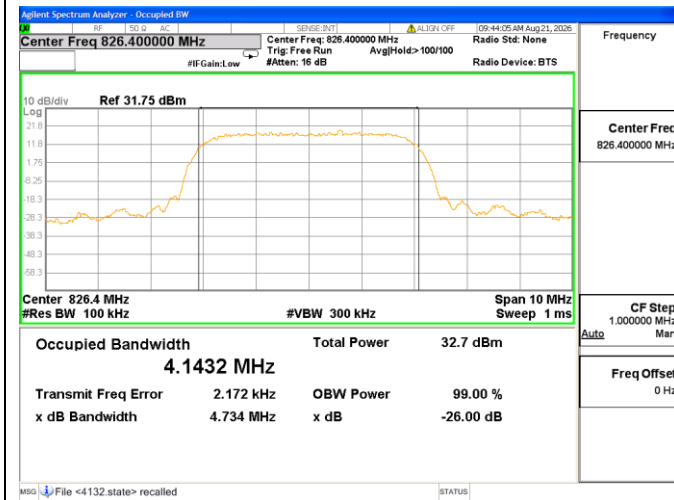
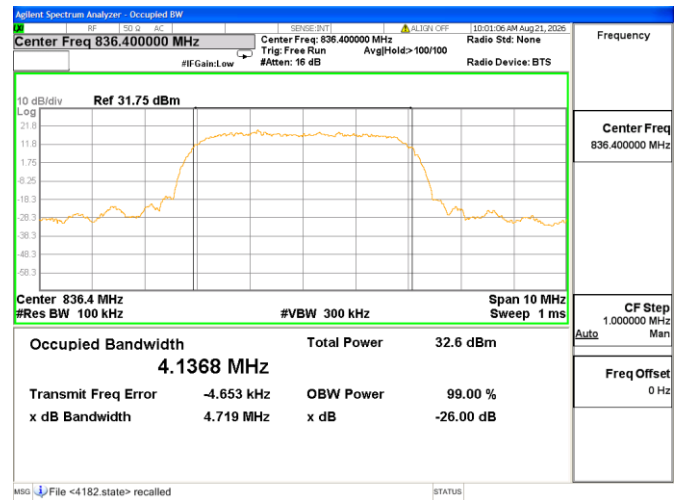
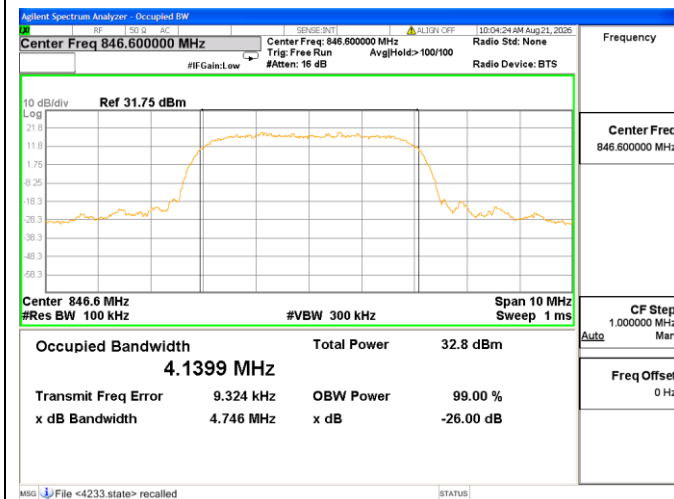
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**GSM1900(EDGE), CH512, 1850.2MHz****GSM1900(EDGE), CH661, 1880.0MHz****GSM1900(EDGE), CH810, 1909.8MHz**

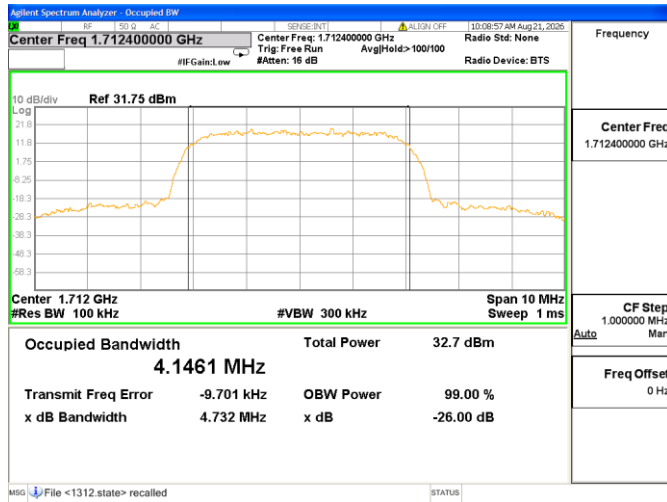
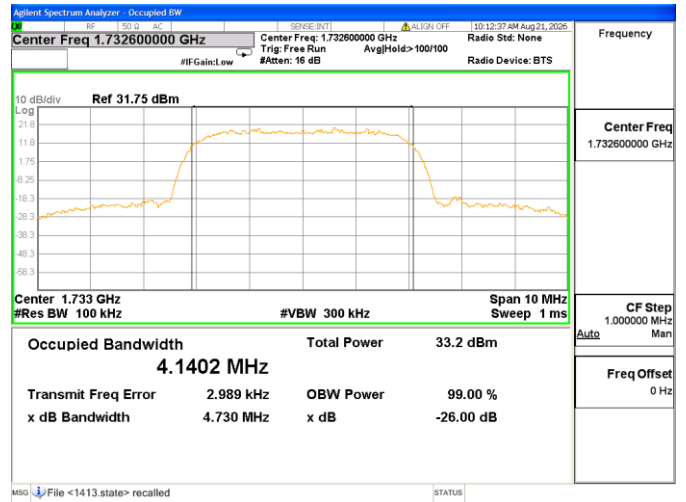
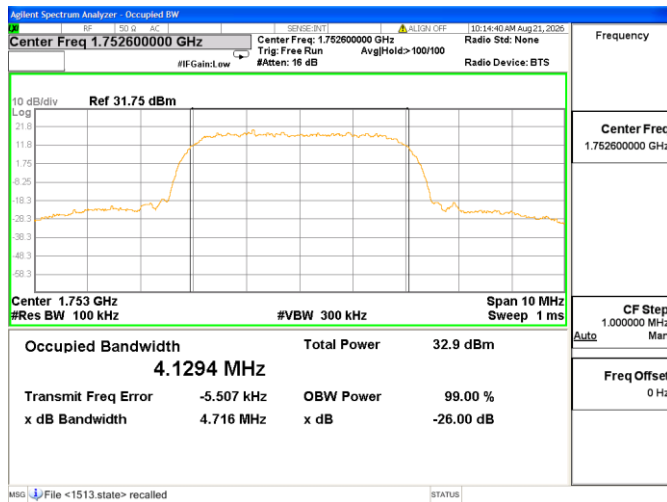
N/A



**WCDMA Band V, CH4132, 826.4MHz****WCDMA Band V, CH4182, 836.4MHz****WCDMA Band V, CH4233, 846.6MHz**

N/A



**WCDMA Band IV, CH1312, 1712.4MHz****WCDMA Band IV, CH1413, 1732.6MHz****WCDMA Band IV, CH1513, 1752.6MHz**

N/A



2.4. Frequency Stability

2.4.1. Requirement

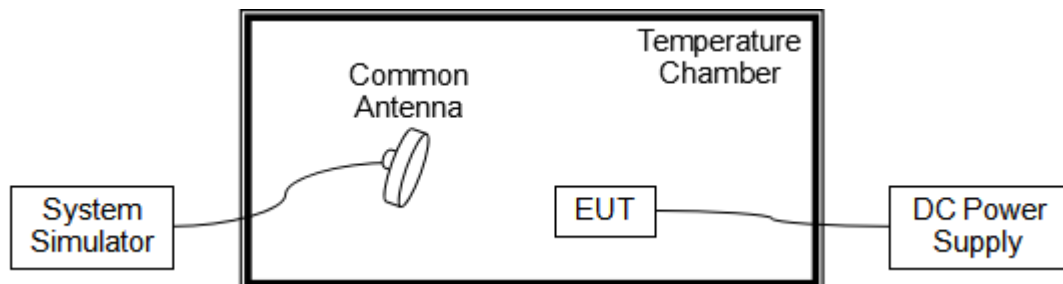
According to FCC section 22.355, 24.235 and 27.54 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (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 -20°C to 65°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 3.70V, 4.20V and 3.50V, which are specified by the applicant; the normal temperature here used is 20°C.

GSM 850MHz, Channel 189, Frequency 836.4MHz					
Limit $\pm 2.5\text{ppm}$					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.70	+20(Ref)	19	0.023	PASS
Normal		-20	15	0.018	
Normal		-10	-4	-0.005	
Normal		0	14	0.017	
Normal		+10	17	0.020	
Normal		+20	-12	-0.014	
Normal		+30	20	0.024	
Normal		+40	-21	-0.025	
Normal		+50	0	0.000	
Normal		+60	17	0.020	
Normal		+65	17	0.020	
High	4.20	+20	15	0.018	
BATT.ENDPOINT	3.50	+20	14	0.017	





GSM 1900MHz, Channel 661, Frequency 1880.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.70	+20(Ref)	15	0.008	PASS
Normal		-20	6	0.003	
Normal		-10	20	0.011	
Normal		0	15	0.008	
Normal		+10	-9	-0.005	
Normal		+20	19	0.010	
Normal		+30	19	0.010	
Normal		+40	18	0.010	
Normal		+50	15	0.008	
Normal		+60	19	0.010	
Normal		+65	-13	-0.007	
High	4.20	+20	-20	-0.011	
BATT.ENDPOINT	3.50	+20	-2	-0.001	

EDGE 850MHz, Channel 189, Frequency 836.4MHz					
Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.70	+20(Ref)	14	0.017	PASS
Normal		-20	-14	-0.017	
Normal		-10	-18	-0.022	
Normal		0	-4	-0.005	
Normal		+10	16	0.019	
Normal		+20	-14	-0.017	
Normal		+30	22	0.026	
Normal		+40	-20	-0.024	
Normal		+50	1	0.001	
Normal		+60	19	0.023	
Normal		+65	-17	-0.020	
High	4.20	+20	-8	-0.010	
BATT.ENDPOINT	3.50	+20	17	0.020	





EDGE 1900MHz, Channel 661, Frequency 1880.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.70	+20(Ref)	-17	-0.009	PASS
Normal		-20	0	0.000	
Normal		-10	19	0.010	
Normal		0	6	0.003	
Normal		+10	20	0.011	
Normal		+20	15	0.008	
Normal		+30	-9	-0.005	
Normal		+40	14	0.007	
Normal		+50	12	0.006	
Normal		+60	14	0.007	
Normal		+65	-7	-0.004	
High	4.20	+20	19	0.010	
BATT.ENDPOINT	3.50	+20	-14	-0.007	

WCDMA Band V, Channel 4182, Frequency 836.4MHz					
Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.70	+20(Ref)	19	0.023	PASS
Normal		-20	16	0.019	
Normal		-10	14	0.017	
Normal		0	-12	-0.014	
Normal		+10	16	0.019	
Normal		+20	-17	-0.020	
Normal		+30	20	0.024	
Normal		+40	-2	-0.002	
Normal		+50	20	0.024	
Normal		+60	-17	-0.020	
Normal		+65	-7	-0.008	
High	4.20	+20	16	0.019	
BATT.ENDPOINT	3.50	+20	13	0.016	





WCDMA Band IV, Channel 1413, Frequency 1732.6MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.70	+20(Ref)	20	0.012	PASS
Normal		-20	3	0.002	
Normal		-10	17	0.010	
Normal		0	13	0.008	
Normal		+10	-13	-0.008	
Normal		+20	-6	-0.003	
Normal		+30	17	0.010	
Normal		+40	13	0.008	
Normal		+50	10	0.006	
Normal		+60	20	0.012	
Normal		+65	18	0.010	
High	4.20	+20	-21	-0.012	
BATT.ENDPOINT	3.50	+20	-18	-0.010	



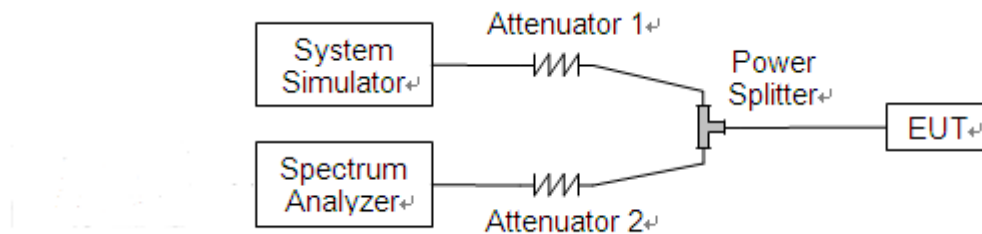
2.5. Conducted Out of Band Emissions

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 $43+10*\log(P)$ 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:



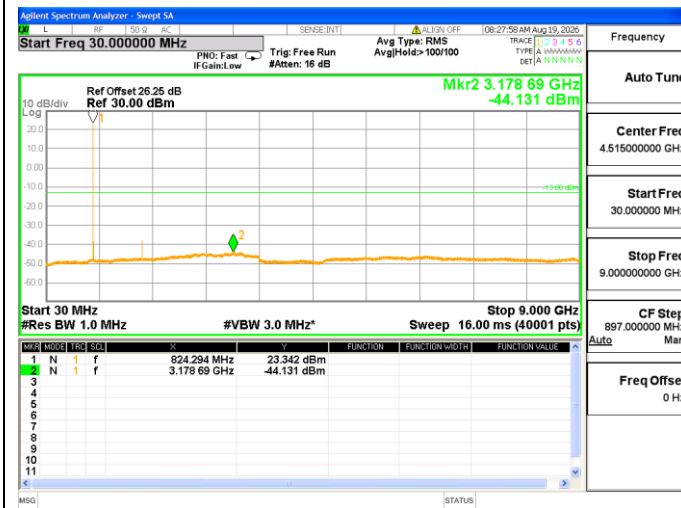
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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



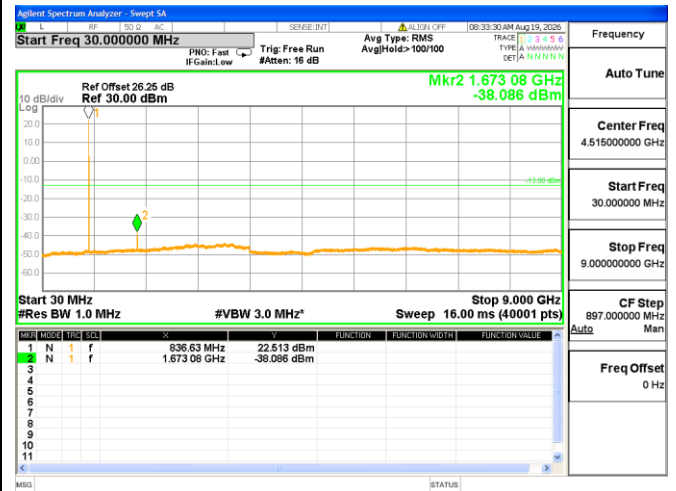


2.5.3.Test Result

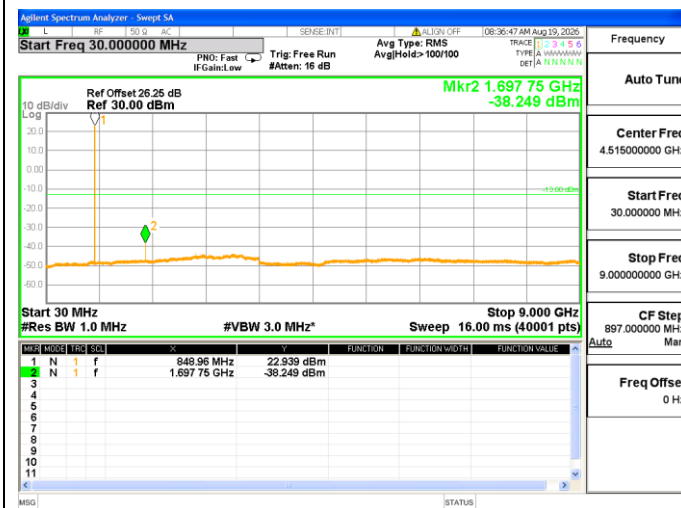
GSM850(GSM), CH128, 824.2MHz



GSM850(GSM),CH189, 836.4MHz



GSM850(GSM), CH251, 848.8MHz

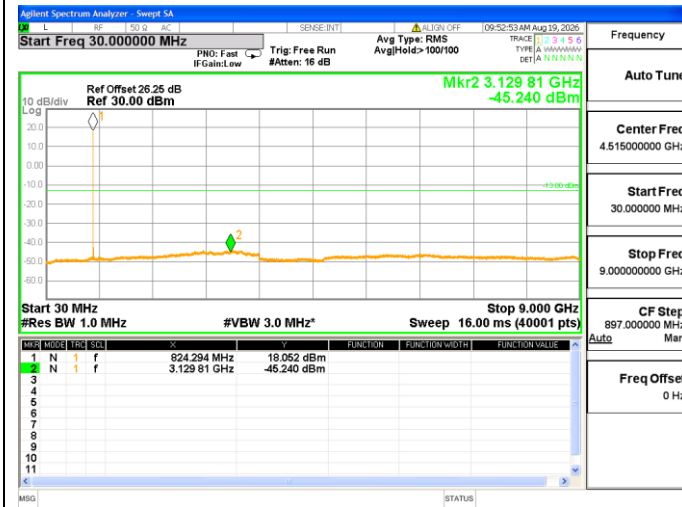


N/A

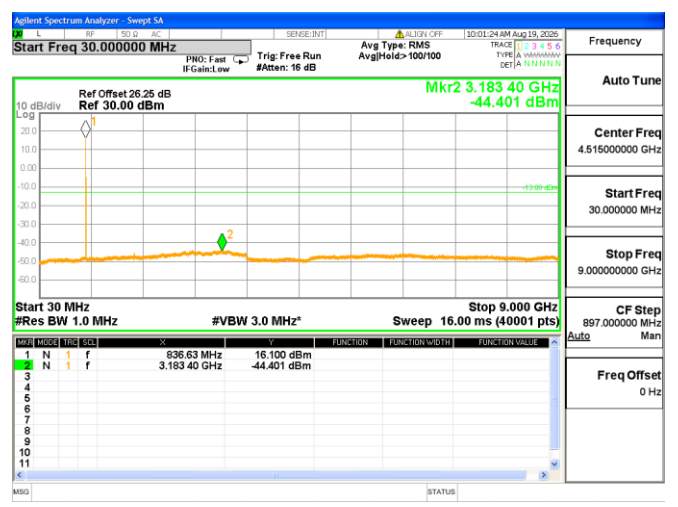




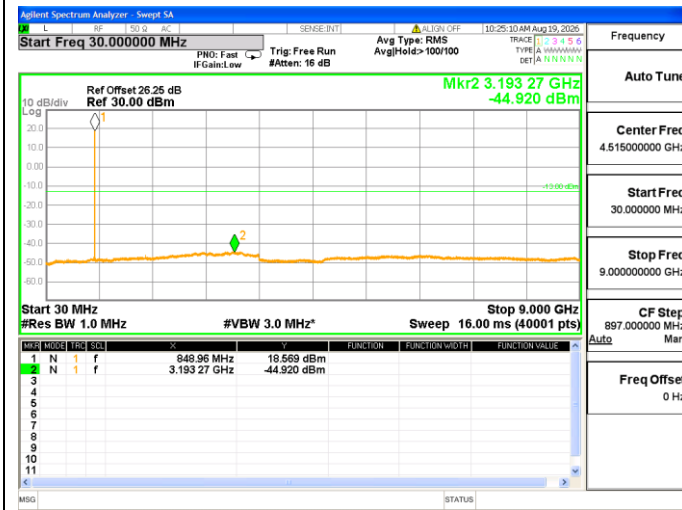
GSM850(EDGE), CH128, 824.2MHz



GSM850(EDGE),CH189, 836.4MHz



GSM850(EDGE), CH251, 848.8MHz

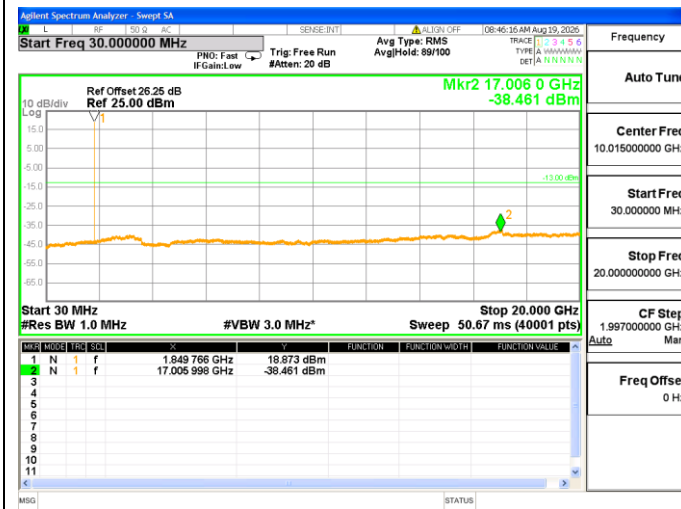


N/A

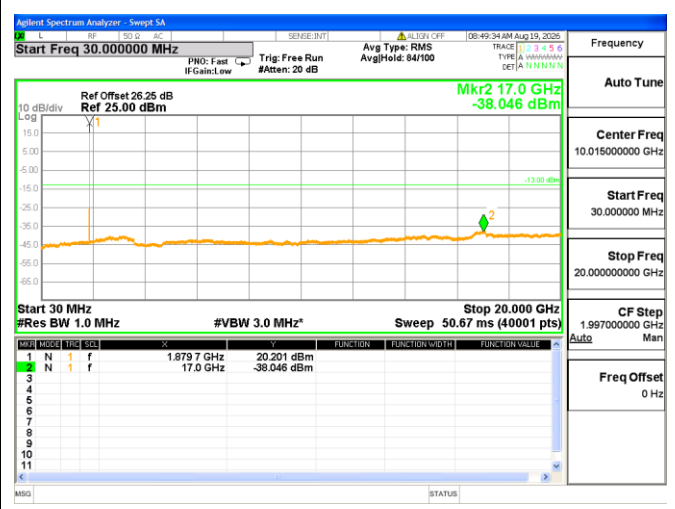




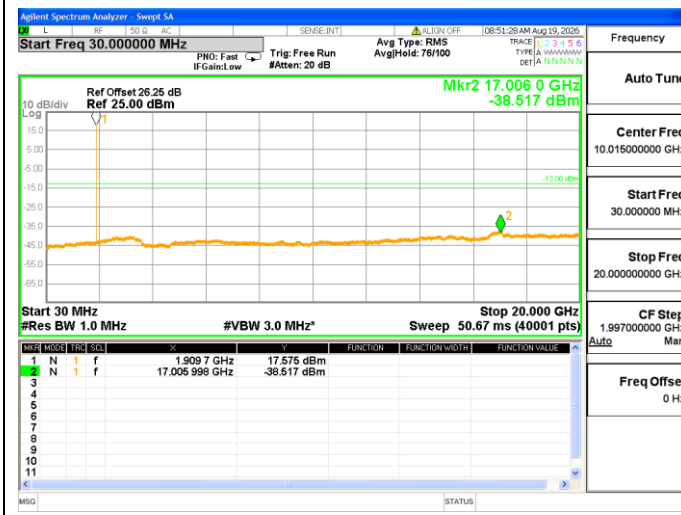
GSM1900(GSM), CH512, 1850.2MHz



GSM1900(GSM), CH661, 1880.0MHz



GSM1900(GSM), CH810, 1909.8MHz

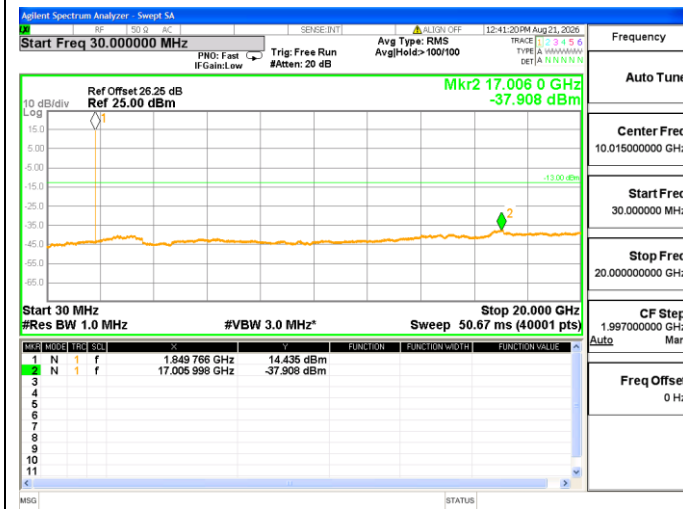


N/A

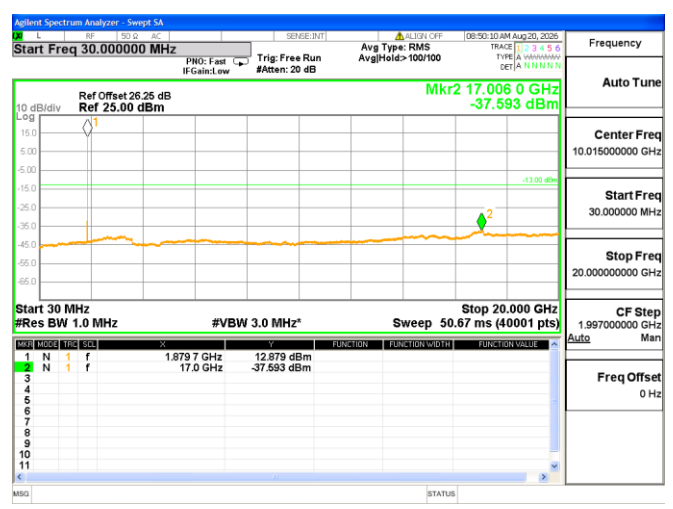




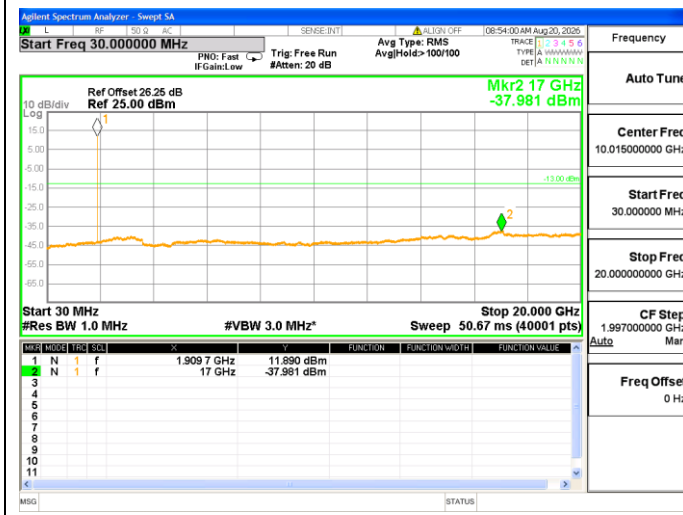
GSM1900(EDGE), CH512, 1850.2MHz



GSM1900(EDGE), CH661, 1880.0MHz



GSM1900(EDGE), CH810, 1909.8MHz

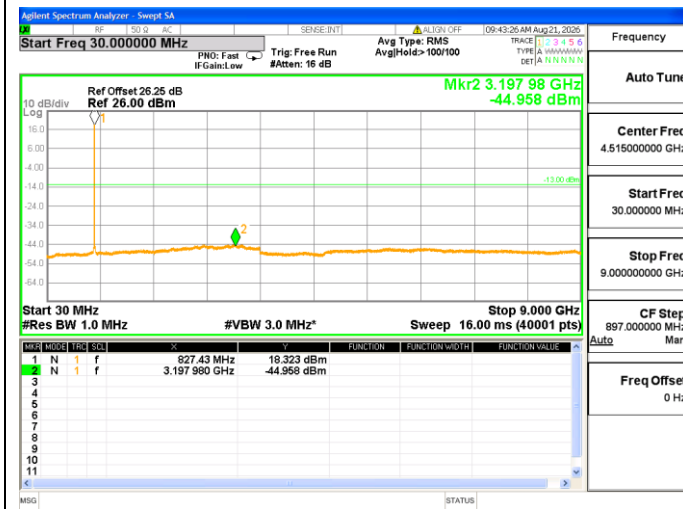


N/A





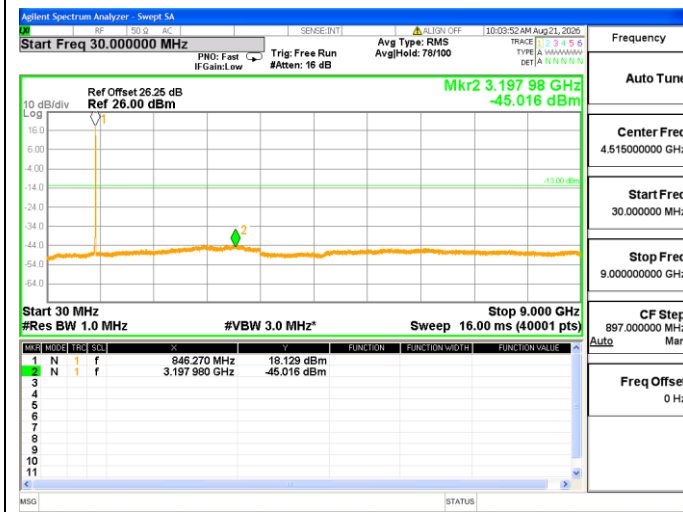
WCDMA Band V, CH4132, 826.4MHz



WCDMA Band V, CH4182, 836.4MHz



WCDMA Band V, CH4233, 846.6MHz

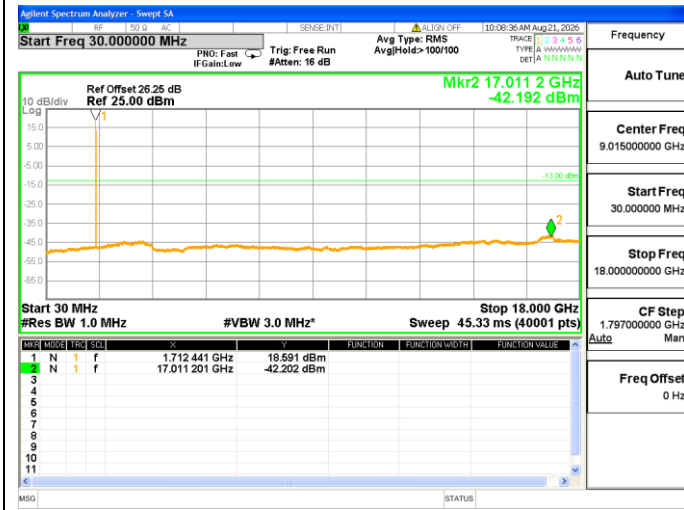


N/A

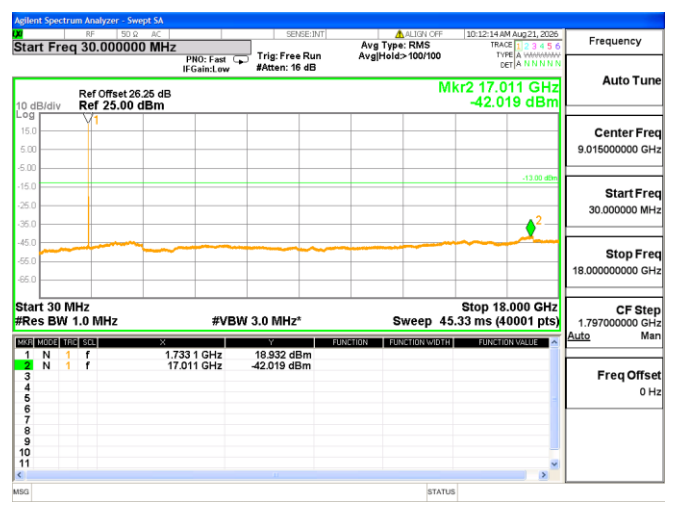




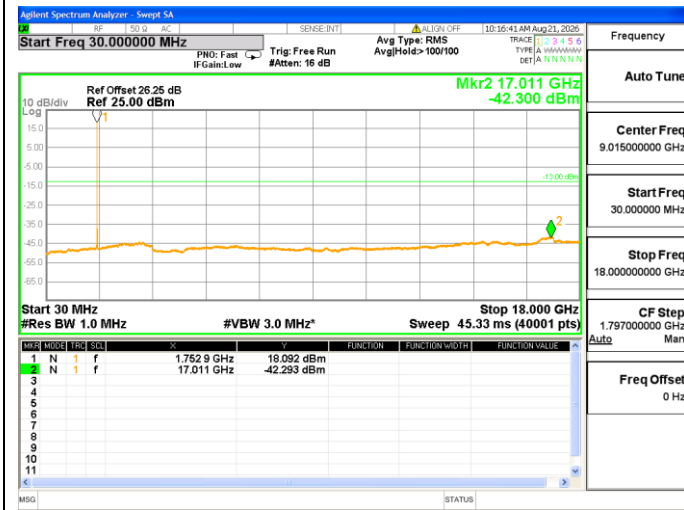
WCDMA Band IV, CH1312, 1712.4MHz



WCDMA Band IV, CH1413, 1732.6MHz



WCDMA Band IV, CH1513, 1752.6MHz



N/A



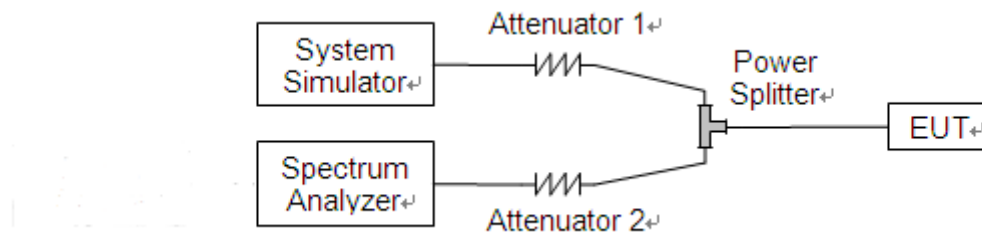
2.6. Band Edge

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 $43+10*\log(P)$ 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 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.





2.6.3. Test Result

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

