



FCC RADIO TEST REPORT

FCC ID : 2A7DJ-2346766867652
Equipment : Smart Radio LTE with Walkie-Talkie
Brand Name : weavix
Model Name : walt
Applicant : PK Solutions LLC
10811 E Harry St. Wichita, KS 67207, USA
Manufacturer : Arima Communications (Jiangsu) Co., Ltd
No.168, Jiaotong North Road, Economic
and Technological Development Zone,
Wujiang District Suzhou City, Jiangsu
Province, P.R.China
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Jun. 16, 2022 and testing was performed from Jul. 15, 2022 to Sep. 14, 2022. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FG261611A	01	Initial issue of report	Sep. 22, 2022



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§22.913 (a)(5)	Effective Radiated Power (Band 5) (Band 26)	Pass	
	§27.50 (b)(10) §27.50 (c)(10)	Effective Radiated Power (Band 12) (Band 13)		
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 25) (Band 7) (Band 38) (Band 41)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)		
3.3	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Reporting only	-
3.5	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2)(4) §27.53 (g) §27.53 (h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 25) (Band 26) (Band 66)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)		
3.6	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (g) §27.53 (h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 25) (Band 26) (Band 66)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)		
3.7	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	-



Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
4.2	§2.1053 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (f) §27.53 (g) §27.53 (h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 25) (Band 26) (Band 66)	Pass	6.73 dB under the limit at 2487.000 MHz
	§2.1053 §27.53 (m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)		

Declaration of Conformity:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Uncertainty of Evaluation".

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Avis Chuang**Report Producer: Michelle Chen**



1 General Description

1.1 Product Feature of Equipment Under Test

LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac, Wi-Fi 5GHz 802.11a/n/ac, NFC, and GNSS.

Product Feature	
Antenna Type	WWAN: PIFA Antenna WLAN: Loop Antenna Bluetooth: Loop Antenna GPS / Glonass / BDS / Galileo: PIFA Antenna NFC: Loop Antenna
HW Version	0910MB-003
SW Version	2.A.0025
Antenna Gain	LTE Band 2: -0.12 dBi LTE Band 4: 0.36 dBi LTE Band 5: -6.9 dBi LTE Band 7: -0.02 dBi LTE Band 12: -8.3 dBi LTE Band 13: -6.2 dBi LTE Band 25: -0.12 dBi LTE Band 26: -6.8 dBi LTE Band 38: -0.93 dBi LTE Band 41: -0.02 dBi LTE Band 66: 0.35 dBi

Remark: The EUT's information above is declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.



1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH03-HY
Test Engineer	HaoEn Zhang
Temperature (°C)	21.5~23.6
Relative Humidity (%)	52.5~54.6

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH13-HY (TAF Code: 3786)
Test Engineer	Rain Lee, Jacky Hong and Mancy Chou
Temperature (°C)	20~25
Relative Humidity (%)	50~60
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786

ISED Company Number: 4086B and 4086H



1.4 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168

D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	-	v	v	v	v	v	v
	7	-	-	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	-	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	-	v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	26	v	v	v	v	v	-	v	v	v	-	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
Peak-to-Average Ratio	2	Covered by Band 25															
	4	Covered by Band 66															
	5	Covered by Band 26															
	7	-	-				v	v	v	v	-			v		v	
	12				v	-	-	v	v	v	-			v		v	
	13	-	-		v	-	-	v	v	v	-			v		v	
	25						v	v	v	v	-			v		v	
	26					v	-	v	v	v	-			v		v	
	38	-	-				v	v	v	v	-			v		v	
	41	-	-				v	v	v	v	-			v		v	
	66						v	v	v	v	-			v		v	



Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
26dB and 99% Bandwidth	2	Covered by Band 25															
	4	Covered by Band 66															
	5	Covered by Band 26															
	7	-	-	v	v	v	v	v	v	v	-			v		v	
	12	v	v	v	v	-	-	v	v	v	-			v		v	
	13	-	-	v	v	-	-	v	v	v	-			v		v	
	25	v	v	v	v	v	v	v	v	v	-			v		v	
	26	v	v	v	v	v	-	v	v	v	-			v		v	
	38	-	-	v	v	v	v	v	v	v	-			v		v	
	41	-	-	v	v	v	v	v	v	v	-			v		v	
	66	v	v	v	v	v	v	v	v	v	-			v		v	
Conducted Band Edge	2	Covered by Band 25															
	4	Covered by Band 66															
	5	Covered by Band 26															
	7	-	-	v	v	v	v	v	v	v	-	v		v	v		v
	12	v	v	v	v	-	-	v	v	v	-	v		v	v		v
	13	-	-	v	v	-	-	v	v	v	-	v		v	v		v
	25	v	v	v	v	v	v	v	v	v	-	v		v	v		v
	26	v	v	v	v	v	-	v	v	v	-	v		v	v		v
	38	-	-	v	v	v	v	v	v	v	-	v		v	v		v
	41	-	-	v	v	v	v	v	v	v	-	v		v	v		v
	66	v	v	v	v	v	v	v	v	v	-	v		v	v		v

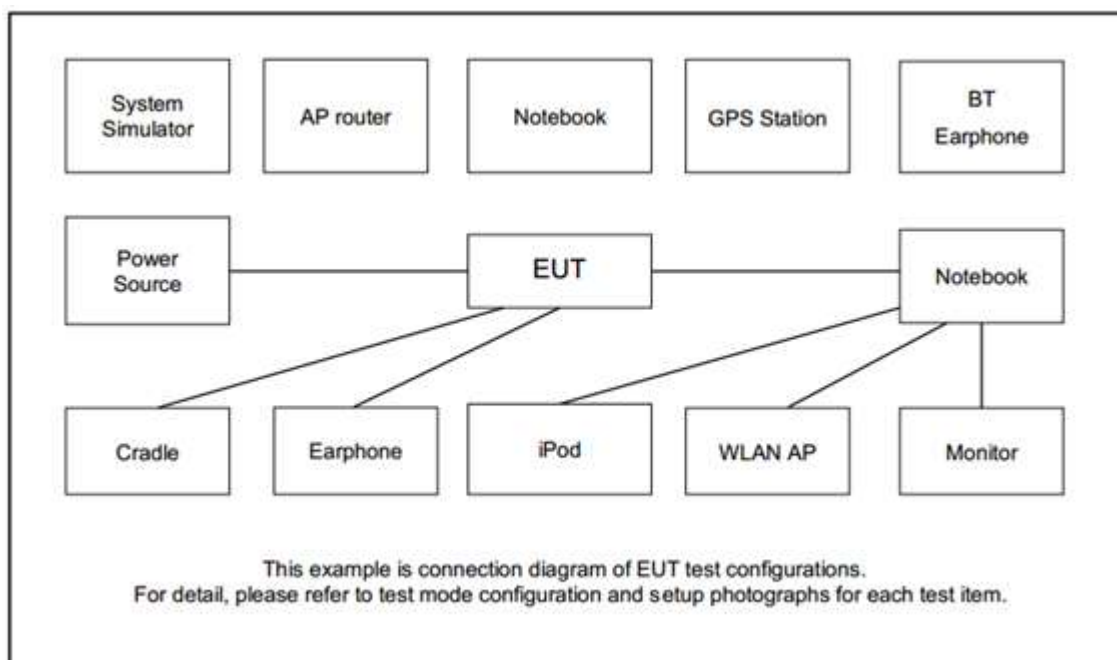


Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	2	Covered by Band 25															
	4	Covered by Band 66															
	5	Covered by Band 26															
	7	-	-	v	v	v	v	v			-	v			v	v	v
	12	v	v	v	v	-	-	v			-	v			v	v	v
	13	-	-	v	v	-	-	v			-	v			v	v	v
	25	v	v	v	v	v	v	v			-	v			v	v	v
	26	v	v	v	v	v	-	v			-	v			v	v	v
	38	-	-	v	v	v	v	v			-	v			v	v	v
	41	-	-	v	v	v	v	v			-	v			v	v	v
	66	v	v	v	v	v	v	v			-	v			v	v	v
Frequency Stability	2	Covered by Band 25															
	4	Covered by Band 66															
	5	Covered by Band 26															
	7	-	-		v			v			-			v		v	
	12				v	-	-	v			-			v		v	
	13	-	-		v	-	-	v			-			v		v	
	25				v			v			-			v		v	
	26				v		-	v			-			v		v	
	38	-	-		v			v			-			v		v	
	41	-	-		v			v			-			v		v	
	66				v			v			-			v		v	



Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	-	v	v	v	v	v	v
	7	-	-	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	-	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	-	v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	26	v	v	v	v	v	-	v	v	v	-	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	-	v	v	v	v	v	v
Radiated Spurious Emission	2	Covered by Band 25															
	4	Covered by Band 66															
	5	Covered by Band 26															
	7	Worst Case													v	v	v
	12	Worst Case													v	v	v
	13	Worst Case													v	v	v
	25	Worst Case													v	v	v
	26	Worst Case													v	v	v
	38	Covered by Band 41															
	41	Worst Case													v	v	v
	66	Worst Case													v	v	v
Remark	1. The mark “v “ means that this configuration is chosen for testing 2. The mark “-“ means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. Wider operating range bandwidth covers narrower one when the power is higher or the same. 5. One representative bandwidth is selected to perform PAR and frequency stability.																

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	SONY	MH750	N/A	Unshielded, 1.2 m	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3



LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3



LTE Band 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5

LTE Band 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	26590
	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
	Frequency	1857.5	1880	1907.5
10	Channel	26090	26340	26640
	Frequency	1855	1880	1910
5	Channel	26065	26340	26665
	Frequency	1852.5	1880	1912.5
3	Channel	26055	26340	26675
	Frequency	1851.5	1880	1913.5
1.4	Channel	26047	26340	26683
	Frequency	1850.7	1880	1914.3



LTE Band 26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829.0	836.5	844.0
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

LTE Band 38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	37850	38000	38150
	Frequency	2580.0	2595.0	2610.0
15	Channel	37825	38000	38175
	Frequency	2577.5	2595.0	2612.5
10	Channel	37800	38000	38200
	Frequency	2575.0	2595.0	2615.0
5	Channel	37775	38000	38225
	Frequency	2572.5	2595.0	2617.5

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506.0	2593.0	2680.0
15	Channel	39725	40620	41515
	Frequency	2503.5	2593.0	2682.5
10	Channel	39700	40620	41540
	Frequency	2501.0	2593.0	2685.0
5	Channel	39675	40620	41565
	Frequency	2498.5	2593.0	2687.5



LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3

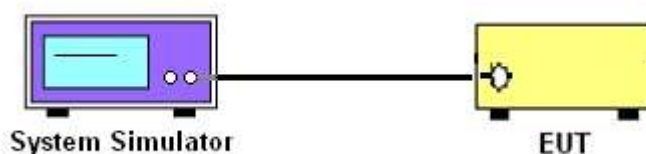
3 Conducted Test Items

3.1 Measuring Instruments

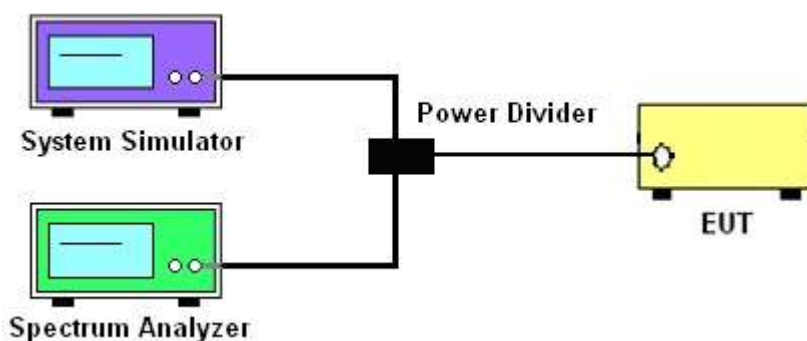
See list of measuring instruments of this test report.

3.1.1 Test Setup

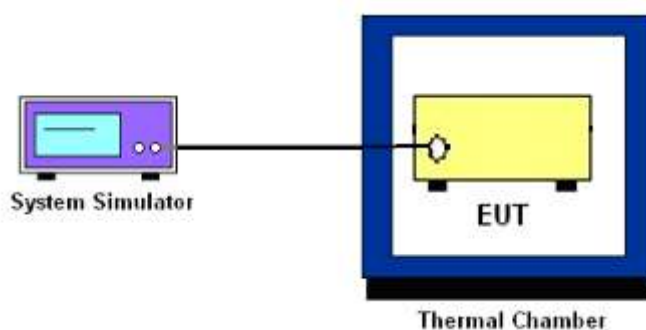
3.1.2 Conducted Output Power



3.1.3 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power and ERP/EIRP

3.2.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5 and Band 26

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12 and Band 13.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25 and Band 7 and Band 38 and Band 41

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.



3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

1. The EUT was connected to spectrum and system simulator via a power divider.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.



3.4 Occupied Bandwidth

3.4.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
4. Set the detection mode to peak, and the trace mode to max hold.
5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (c)

For operations in the 776-788 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} p(\text{watts})$, dB, for mobile and portable equipment.

27.53 (g)

For operations in the 600MHz band and 698-746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h)

For operations in the 1710 – 1755 MHz band, 1755-1780 MHz, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.



27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW $\geq$ 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Checked that all the results comply with the emission limit line.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

For LTE Band 7, 38, 41

The other 40 dB, and 55 dB have additionally applied same calculation above.



3.6 Conducted Spurious Emission

3.6.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For LTE Band 7, 38, 41

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
For LTE Band 7, 38, 41
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)



3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

22.355

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

24.235 & 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

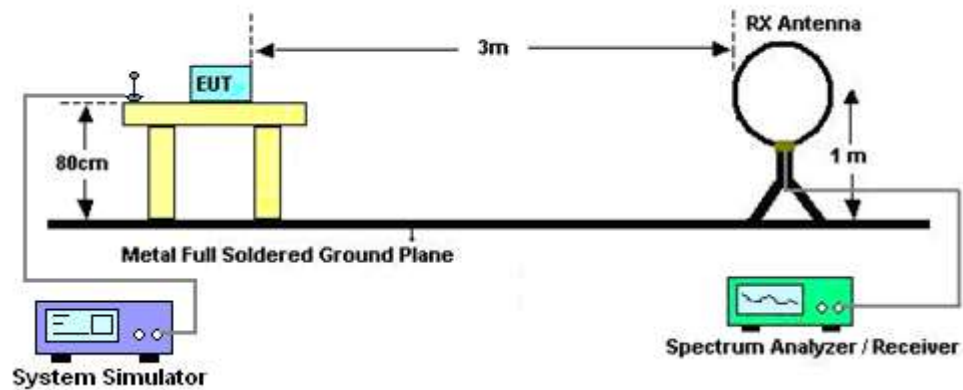
4 Radiated Test Items

4.1 Measuring Instruments

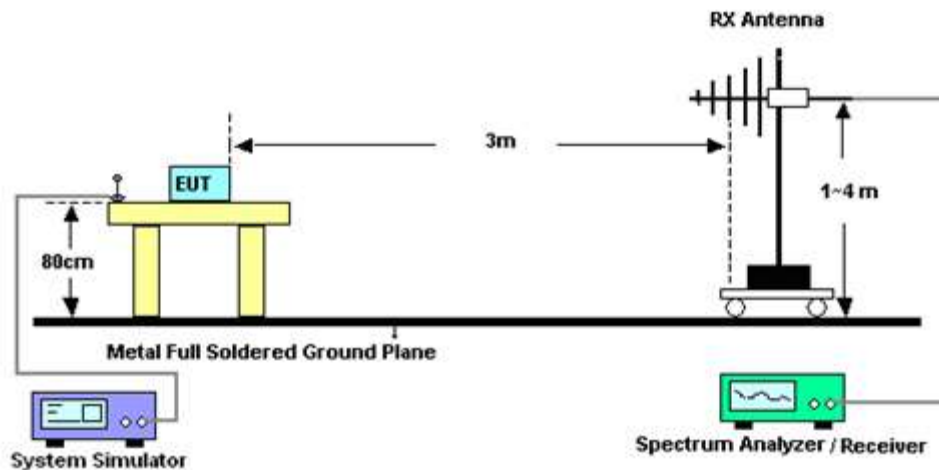
See list of measuring instruments of this test report.

4.1.1 Test Setup

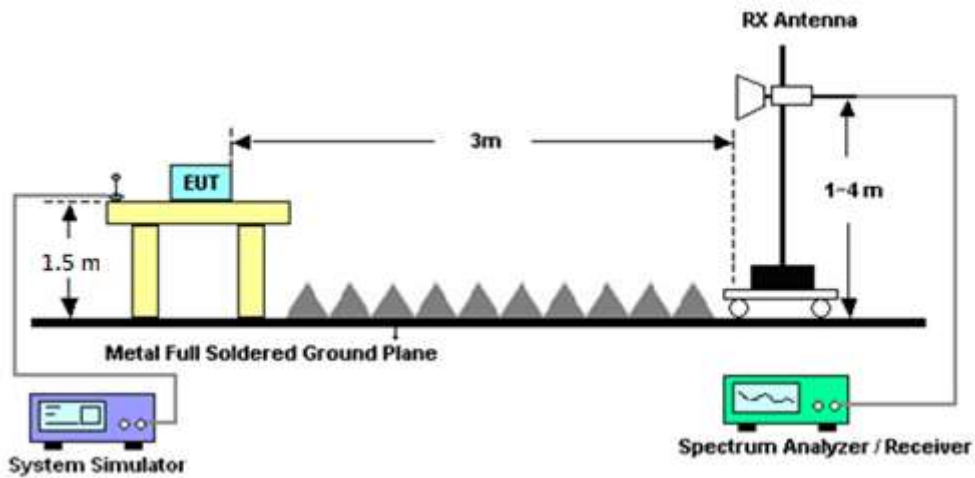
For radiated test below 30MHz



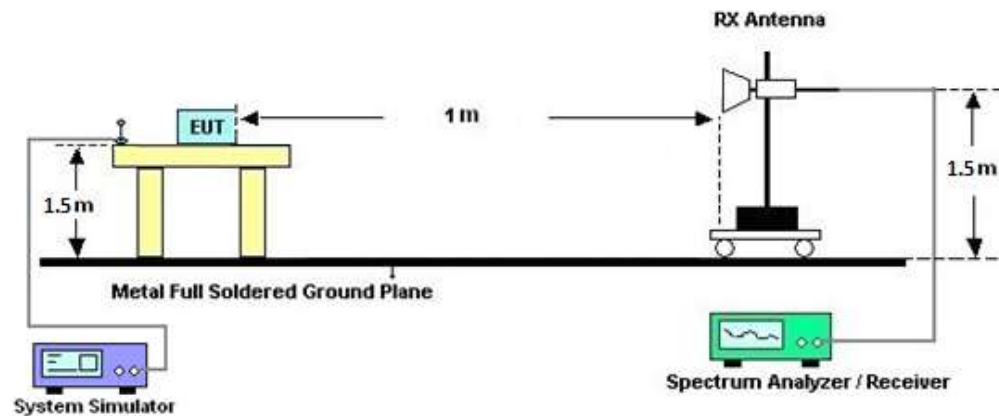
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For LTE Band 7, 38, 41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

For LTE Band 7, 38, 41

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)

EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

ERP (dBm) = EIRP - 2.15



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	May 13, 2022	Jul. 15, 2022~ Aug. 09, 2022	May 12, 2023	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 24, 2021	Jul. 15, 2022~ Aug. 09, 2022	Dec. 23, 2022	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz~40GHz	Nov. 30, 2021	Jul. 15, 2022~ Aug. 09, 2022	Nov. 29, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 21, 2022	Jul. 15, 2022~ Aug. 09, 2022	Feb. 20, 2023	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 14, 2022	Jul. 15, 2022~ Aug. 09, 2022	May 13, 2023	Radiation (03CH13-HY)
Amplifier	SONOMA	310N	187282	9kHz~1GHz	Dec. 15, 2021	Jul. 15, 2022~ Aug. 09, 2022	Dec. 14, 2022	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	40103 & 07	30MHz~1GHz	Apr. 24, 2022	Jul. 15, 2022~ Aug. 09, 2022	Apr. 23, 2023	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	41912 & 05	30MHz~1GHz	Feb. 06, 2022	Jul. 15, 2022~ Aug. 09, 2022	Feb. 05, 2023	Radiation (03CH13-HY)
Hygrometer	TECEPEL	DTM-303B	TP200889	N/A	Sep. 30, 2021	Jul. 15, 2022~ Aug. 09, 2022	Sep. 29, 2022	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 17, 2022	Jul. 15, 2022~ Aug. 09, 2022	May 16, 2023	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270147	1GHz~26.5GHz	Oct. 26, 2021	Jul. 15, 2022~ Aug. 09, 2022	Oct. 25, 2022	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Mar. 18, 2022	Jul. 15, 2022~ Aug. 09, 2022	Mar. 17, 2023	Radiation (03CH13-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN12	1.53GHz Low Pass Filter	Sep. 14, 2021	Jul. 15, 2022~ Aug. 09, 2022	Sep. 13, 2022	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-1080 -1200-15000-6 0SS	SN3	1.2GHz High Pass Filter	Jun. 30, 2022	Jul. 15, 2022~ Aug. 09, 2022	Jun. 29, 2023	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0SS	SN2	3GHz High Pass Filter	Jul. 12, 2022	Jul. 15, 2022~ Aug. 09, 2022	Jul. 11, 2023	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 10, 2022	Jul. 15, 2022~ Aug. 09, 2022	Mar. 09, 2023	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30MHz~18GHz	Feb. 09, 2022	Jul. 15, 2022~ Aug. 09, 2022	Feb. 08, 2023	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30MHz~18GHz	Feb. 09, 2022	Jul. 15, 2022~ Aug. 09, 2022	Feb. 08, 2023	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30MHz~18GHz	Feb. 09, 2022	Jul. 15, 2022~ Aug. 09, 2022	Feb. 08, 2023	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jul. 15, 2022~ Aug. 09, 2022	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jul. 15, 2022~ Aug. 09, 2022	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jul. 15, 2022~ Aug. 09, 2022	N/A	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02114	1-18GHz	Aug. 04, 2021	Jul. 15, 2022~ Aug. 02, 2022	Aug. 03, 2022	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1-18GHz	Jul. 25, 2022	Aug. 03, 2022~ Aug. 09, 2022	Jul. 24, 2023	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1212	1GHz~18GHz	Mar. 10, 2022	Jul. 15, 2022~ Aug. 09, 2022	Mar. 09, 2023	Radiation (03CH13-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	6262025280	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 29, 2021	Jul. 22, 2022~ Sep. 14, 2022	Oct. 28, 2022	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101908	10Hz~40GHz	Oct. 01, 2021	Jul. 22, 2022~ Sep. 14, 2022	Sep. 30, 2022	Conducted (TH03-HY)
Thermal Chamber	ESPEC	SH-641	92013720	-40°C ~90°C	Sep. 09, 2021	Jul. 22, 2022~ Aug. 31, 2022	Sep. 08, 2022	Conducted (TH03-HY)
Thermal Chamber	ESPEC	SH-641	92013720	-40°C ~90°C	Sep. 07, 2022	Sep. 14, 2022	Sep. 06, 2023	Conducted (TH03-HY)
DC Power Supply	GW Instek	GPP-2323	GES906037	0V~64V ; 0A~6A	Jan. 06, 2022	Jul. 22, 2022~ Sep. 14, 2022	Jan. 05, 2023	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 07, 2022	Jul. 22, 2022~ Sep. 14, 2022	Jan. 06, 2023	Conducted (TH03-HY)



6 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.40 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.81 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.46 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP/EIRP)

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.29	23.15	23.06	23.17	0.2075
20	1	49		23.23	23.07	23.15		
20	1	99		23.10	23.01	23.04		
20	50	0		22.33	22.19	22.13		
20	50	24		22.29	22.16	22.20		
20	50	50		22.28	22.09	22.17		
20	100	0		22.32	22.15	22.08		
20	1	0	16-QAM	22.57	22.47	22.38	22.47	0.1766
20	1	49		22.59	22.38	22.40		
20	1	99		22.42	22.36	22.39		
20	50	0		21.43	21.24	21.19		
20	50	24		21.39	21.23	21.30		
20	50	50		21.38	21.19	21.27		
20	100	0		21.41	21.20	21.16		
20	1	0	64-QAM	21.55	21.39	21.30	21.43	0.1390
20	1	49		21.50	21.29	21.36		
20	1	99		21.37	21.21	21.29		
20	50	0		20.44	20.26	20.18		
20	50	24		20.40	20.22	20.34		
20	50	50		20.39	20.22	20.31		
20	100	0		20.43	20.24	20.19		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.25	23.07	22.99	23.13	0.2056
15	1	37		23.23	23.03	23.10		
15	1	74		23.09	22.92	23.01		
15	36	0		22.25	22.14	22.08		
15	36	20		22.26	22.16	22.11		
15	36	39		22.26	22.09	22.08		
15	75	0		22.28	22.06	22.05		
15	1	0	16-QAM	22.56	22.44	22.36	22.44	0.1754
15	1	37		22.55	22.33	22.38		
15	1	74		22.36	22.26	22.38		
15	36	0		21.35	21.23	21.18		
15	36	20		21.34	21.15	21.24		
15	36	39		21.38	21.18	21.21		
15	75	0		21.32	21.14	21.15		
15	1	0	64-QAM	21.49	21.33	21.25	21.37	0.1371
15	1	37		21.47	21.22	21.33		
15	1	74		21.28	21.21	21.19		
15	36	0		20.35	20.26	20.14		
15	36	20		20.31	20.13	20.30		
15	36	39		20.30	20.22	20.25		
15	75	0		20.34	20.15	20.12		
Limit	EIRP < 2W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG261611A

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.27	23.14	23.05	23.15	0.2065
10	1	25		23.19	23.07	23.10		
10	1	49		23.03	22.96	22.95		
10	25	0		22.33	22.17	22.11		
10	25	12		22.28	22.16	22.20		
10	25	25		22.22	22.01	22.08		
10	50	0		22.27	22.10	22.05		
10	1	0	16-QAM	22.56	22.42	22.32	22.44	0.1754
10	1	25		22.52	22.32	22.34		
10	1	49		22.39	22.31	22.38		
10	25	0		21.41	21.18	21.18		
10	25	12		21.37	21.16	21.22		
10	25	25		21.37	21.09	21.22		
10	50	0		21.39	21.13	21.06		
10	1	0	64-QAM	21.52	21.34	21.22	21.40	0.1380
10	1	25		21.41	21.24	21.36		
10	1	49		21.36	21.21	21.29		
10	25	0		20.44	20.16	20.12		
10	25	12		20.39	20.17	20.28		
10	25	25		20.32	20.20	20.27		
10	50	0		20.43	20.20	20.12		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.24	23.05	23.03	23.12	0.2051
5	1	12		23.20	23.07	23.05		
5	1	24		23.04	22.94	23.00		
5	12	0		22.25	22.15	22.07		
5	12	7		22.26	22.13	22.13		
5	12	13		22.26	22.05	22.11		
5	25	0		22.27	22.10	22.05		
5	1	0	16-QAM	22.47	22.43	22.30	22.46	0.1762
5	1	12		22.58	22.29	22.40		
5	1	24		22.33	22.28	22.36		
5	12	0		21.33	21.22	21.09		
5	12	7		21.38	21.17	21.29		
5	12	13		21.29	21.16	21.17		
5	25	0		21.34	21.12	21.14		
5	1	0	64-QAM	21.49	21.33	21.22	21.37	0.1371
5	1	12		21.41	21.22	21.36		
5	1	24		21.32	21.18	21.24		
5	12	0		20.37	20.26	20.17		
5	12	7		20.37	20.19	20.32		
5	12	13		20.33	20.22	20.25		
5	25	0		20.43	20.22	20.11		
Limit	EIRP < 2W			Result			Pass	



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LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.28	23.07	23.00	23.16	0.2070
3	1	8		23.15	23.03	23.12		
3	1	14		23.03	23.00	22.98		
3	8	0		22.23	22.16	22.06		
3	8	4		22.29	22.11	22.14		
3	8	7		22.26	22.04	22.12		
3	15	0		22.31	22.12	22.04		
3	1	0	16-QAM	22.57	22.40	22.29	22.45	0.1758
3	1	8		22.54	22.34	22.36		
3	1	14		22.38	22.30	22.34		
3	8	0		21.37	21.23	21.15		
3	8	4		21.38	21.16	21.26		
3	8	7		21.28	21.09	21.22		
3	15	0		21.40	21.17	21.13		
3	1	0	64-QAM	21.51	21.39	21.20	21.39	0.1377
3	1	8		21.44	21.28	21.27		
3	1	14		21.34	21.14	21.26		
3	8	0		20.38	20.20	20.14		
3	8	4		20.40	20.13	20.25		
3	8	7		20.33	20.15	20.28		
3	15	0		20.43	20.18	20.16		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.22	23.10	22.96	23.15	0.2065
1.4	1	3		23.22	23.01	23.08		
1.4	1	5		23.03	22.96	22.95		
1.4	3	0		23.27	23.14	23.00		
1.4	3	1		23.14	23.07	23.13		
1.4	3	3		23.10	22.94	22.98		
1.4	6	0		22.32	22.12	21.98		
1.4	1	0	16-QAM	22.55	22.45	22.36	22.45	0.1758
1.4	1	3		22.57	22.28	22.34		
1.4	1	5		22.33	22.35	22.36		
1.4	3	0		22.55	22.37	22.35		
1.4	3	1		22.56	22.33	22.39		
1.4	3	3		22.41	22.35	22.38		
1.4	6	0		21.37	21.12	21.14		
1.4	1	0	64-QAM	21.55	21.33	21.27	21.43	0.1390
1.4	1	3		21.43	21.19	21.35		
1.4	1	5		21.33	21.19	21.19		
1.4	3	0		21.55	21.36	21.25		
1.4	3	1		21.42	21.25	21.29		
1.4	3	3		21.32	21.18	21.29		
1.4	6	0		20.36	20.20	20.14		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.51	23.37	23.37	23.39	0.2183
20	1	49		23.45	23.29	23.28		
20	1	99		23.32	23.23	23.26		
20	50	0		22.55	22.41	22.35		
20	50	24		22.51	22.38	22.42		
20	50	50		22.50	22.31	22.39		
20	100	0		22.54	22.37	22.30		
20	1	0	16-QAM	22.79	22.69	22.60	22.69	0.1858
20	1	49		22.81	22.60	22.62		
20	1	99		22.64	22.58	22.61		
20	50	0		21.65	21.46	21.41		
20	50	24		21.61	21.45	21.52		
20	50	50		21.60	21.41	21.49		
20	100	0		21.63	21.42	21.38		
20	1	0	64-QAM	21.77	21.61	21.52	21.65	0.1462
20	1	49		21.72	21.51	21.58		
20	1	99		21.59	21.43	21.51		
20	50	0		20.66	20.48	20.40		
20	50	24		20.62	20.44	20.56		
20	50	50		20.61	20.44	20.53		
20	100	0		20.65	20.46	20.41		
Limit	EIRP < 2W			Result			Pass	



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LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.42	23.33	23.19	23.30	0.2138
15	1	37		23.40	23.21	23.35		
15	1	74		23.20	23.22	23.07		
15	36	0		22.47	22.25	22.18		
15	36	20		22.40	22.33	22.33		
15	36	39		22.43	22.16	22.31		
15	75	0		22.40	22.24	22.11		
15	1	0	16-QAM	22.62	22.62	22.53	22.54	0.1795
15	1	37		22.66	22.45	22.52		
15	1	74		22.62	22.53	22.45		
15	36	0		21.56	21.26	21.21		
15	36	20		21.60	21.32	21.33		
15	36	39		21.50	21.30	21.33		
15	75	0		21.48	21.32	21.36		
15	1	0	64-QAM	21.58	21.56	21.45	21.54	0.1426
15	1	37		21.66	21.31	21.45		
15	1	74		21.57	21.31	21.42		
15	36	0		20.57	20.28	20.27		
15	36	20		20.43	20.33	20.54		
15	36	39		20.43	20.41	20.35		
15	75	0		20.61	20.46	20.29		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.49	23.18	23.09	23.37	0.2173
10	1	25		23.27	23.15	23.23		
10	1	49		23.22	23.11	23.21		
10	25	0		22.54	22.28	22.19		
10	25	12		22.40	22.29	22.38		
10	25	25		22.36	22.15	22.21		
10	50	0		22.36	22.35	22.29		
10	1	0	16-QAM	22.66	22.55	22.46	22.58	0.1811
10	1	25		22.70	22.56	22.55		
10	1	49		22.57	22.46	22.61		
10	25	0		21.46	21.39	21.38		
10	25	12		21.57	21.27	21.49		
10	25	25		21.53	21.41	21.49		
10	50	0		21.55	21.33	21.21		
10	1	0	64-QAM	21.59	21.52	21.39	21.50	0.1413
10	1	25		21.62	21.47	21.46		
10	1	49		21.39	21.30	21.31		
10	25	0		20.49	20.36	20.34		
10	25	12		20.56	20.38	20.50		
10	25	25		20.53	20.25	20.38		
10	50	0		20.65	20.34	20.34		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.39	23.26	23.10	23.27	0.2123
5	1	12		23.31	23.15	23.27		
5	1	24		23.27	23.22	23.06		
5	12	0		22.53	22.36	22.20		
5	12	7		22.48	22.24	22.28		
5	12	13		22.36	22.21	22.29		
5	25	0		22.40	22.36	22.11		
5	1	0	16-QAM	22.59	22.58	22.58	22.66	0.1845
5	1	12		22.78	22.41	22.42		
5	1	24		22.63	22.47	22.53		
5	12	0		21.56	21.35	21.24		
5	12	7		21.50	21.25	21.44		
5	12	13		21.46	21.21	21.39		
5	25	0		21.48	21.42	21.33		
5	1	0	64-QAM	21.62	21.60	21.39	21.50	0.1413
5	1	12		21.54	21.43	21.55		
5	1	24		21.45	21.36	21.46		
5	12	0		20.55	20.45	20.24		
5	12	7		20.43	20.41	20.40		
5	12	13		20.52	20.42	20.36		
5	25	0		20.58	20.44	20.39		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.40	23.37	23.12	23.28	0.2128
3	1	8		23.33	23.23	23.21		
3	1	14		23.15	23.03	23.17		
3	8	0		22.52	22.33	22.18		
3	8	4		22.39	22.24	22.41		
3	8	7		22.31	22.21	22.22		
3	15	0		22.43	22.17	22.19		
3	1	0	16-QAM	22.69	22.69	22.43	22.63	0.1832
3	1	8		22.75	22.41	22.45		
3	1	14		22.46	22.39	22.60		
3	8	0		21.53	21.44	21.27		
3	8	4		21.60	21.26	21.38		
3	8	7		21.52	21.38	21.44		
3	15	0		21.48	21.40	21.30		
3	1	0	64-QAM	21.70	21.54	21.45	21.58	0.1439
3	1	8		21.62	21.33	21.52		
3	1	14		21.47	21.43	21.49		
3	8	0		20.50	20.35	20.32		
3	8	4		20.43	20.33	20.49		
3	8	7		20.61	20.33	20.34		
3	15	0		20.54	20.45	20.25		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.50	23.33	23.09	23.38	0.2178
1.4	1	3		23.28	23.22	23.25		
1.4	1	5		23.21	23.18	23.06		
1.4	3	0		22.54	22.37	22.26		
1.4	3	1		22.49	22.33	22.40		
1.4	3	3		22.46	22.16	22.26		
1.4	6	0		22.41	22.32	22.14		
1.4	1	0	16-QAM	22.76	22.65	22.60	22.67	0.1849
1.4	1	3		22.79	22.41	22.51		
1.4	1	5		22.59	22.42	22.54		
1.4	3	0		21.65	21.37	21.36		
1.4	3	1		21.56	21.42	21.32		
1.4	3	3		21.40	21.29	21.33		
1.4	6	0		21.49	21.27	21.21		
1.4	1	0	64-QAM	21.63	21.42	21.50	21.58	0.1439
1.4	1	3		21.70	21.47	21.42		
1.4	1	5		21.50	21.33	21.49		
1.4	3	0		20.65	20.48	20.20		
1.4	3	1		20.52	20.31	20.38		
1.4	3	3		20.49	20.41	20.45		
1.4	6	0		20.49	20.42	20.29		
Limit	EIRP < 2W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 0.36 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.19	23.29	23.12	23.65	0.2317
20	1	49		23.11	23.06	23.05		
20	1	99		23.01	23.03	23.01		
20	50	0		22.27	22.18	22.14		
20	50	24		22.23	22.16	22.08		
20	50	50		22.24	22.01	22.07		
20	100	0		22.23	22.10	22.07		
20	1	0	16-QAM	22.52	22.51	22.37	22.88	0.1941
20	1	49		22.47	22.34	22.35		
20	1	99		22.30	22.23	22.34		
20	50	0		21.30	21.27	21.20		
20	50	24		21.37	21.23	21.15		
20	50	50		21.30	21.09	21.15		
20	100	0		21.29	21.17	21.10		
20	1	0	64-QAM	21.45	21.44	21.35	21.81	0.1517
20	1	49		21.41	21.32	21.33		
20	1	99		21.25	21.16	21.29		
20	50	0		20.30	20.29	20.22		
20	50	24		20.37	20.26	20.18		
20	50	50		20.31	20.10	20.19		
20	100	0		20.30	20.18	20.15		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 0.36 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.14	23.06	22.96	23.54	0.2259
15	1	37		23.18	23.06	23.10		
15	1	74		23.01	22.93	22.99		
15	36	0		22.26	22.17	22.07		
15	36	20		22.23	22.07	22.18		
15	36	39		22.18	22.00	22.12		
15	75	0		22.27	22.06	22.04		
15	1	0	16-QAM	22.55	22.43	22.38	22.92	0.1959
15	1	37		22.56	22.34	22.36		
15	1	74		22.35	22.33	22.39		
15	36	0		21.41	21.21	21.18		
15	36	20		21.39	21.13	21.25		
15	36	39		21.31	21.18	21.23		
15	75	0		21.39	21.16	21.14		
15	1	0	64-QAM	21.51	21.29	21.28	21.87	0.1538
15	1	37		21.46	21.29	21.32		
15	1	74		21.34	21.18	21.20		
15	36	0		20.34	20.16	20.15		
15	36	20		20.34	20.14	20.27		
15	36	39		20.33	20.14	20.28		
15	75	0		20.40	20.16	20.17		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 0.36 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.15	23.09	22.98	23.59	0.2286
10	1	25		23.23	22.97	23.09		
10	1	49		23.01	23.00	23.01		
10	25	0		22.26	22.11	22.09		
10	25	12		22.24	22.07	22.14		
10	25	25		22.18	22.02	22.17		
10	50	0		22.27	22.11	22.04		
10	1	0	16-QAM	22.47	22.41	22.37	22.90	0.1950
10	1	25		22.54	22.35	22.35		
10	1	49		22.41	22.35	22.37		
10	25	0		21.39	21.23	21.16		
10	25	12		21.29	21.20	21.27		
10	25	25		21.30	21.09	21.23		
10	50	0		21.38	21.12	21.07		
10	1	0	64-QAM	21.49	21.29	21.29	21.86	0.1535
10	1	25		21.50	21.21	21.33		
10	1	49		21.32	21.20	21.27		
10	25	0		20.44	20.19	20.18		
10	25	12		20.38	20.12	20.28		
10	25	25		20.34	20.13	20.23		
10	50	0		20.33	20.16	20.09		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 0.36 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.10	23.12	23.05	23.57	0.2275
5	1	12		23.21	22.98	23.12		
5	1	24		23.07	22.95	23.01		
5	12	0		22.33	22.09	22.04		
5	12	7		22.27	22.14	22.12		
5	12	13		22.24	22.01	22.11		
5	25	0		22.23	22.12	22.02		
5	1	0	16-QAM	22.50	22.40	22.30	22.89	0.1945
5	1	12		22.53	22.36	22.39		
5	1	24		22.37	22.36	22.30		
5	12	0		21.35	21.18	21.14		
5	12	7		21.34	21.15	21.30		
5	12	13		21.29	21.12	21.24		
5	25	0		21.41	21.16	21.13		
5	1	0	64-QAM	21.55	21.33	21.27	21.91	0.1552
5	1	12		21.47	21.19	21.26		
5	1	24		21.33	21.11	21.27		
5	12	0		20.40	20.24	20.08		
5	12	7		20.33	20.13	20.27		
5	12	13		20.36	20.15	20.24		
5	25	0		20.34	20.24	20.19		
Limit	EIRP < 1W			Result			Pass	



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LTE Band 4 Maximum Average Power [dBm] (GT - LC = 0.36 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.14	23.09	23.05	23.50	0.2239
3	1	8		23.13	23.05	23.07		
3	1	14		23.01	22.94	22.95		
3	8	0		22.23	22.10	22.07		
3	8	4		22.23	22.11	22.14		
3	8	7		22.26	22.01	22.12		
3	15	0		22.23	22.09	22.00		
3	1	0	16-QAM	22.48	22.38	22.31	22.89	0.1945
3	1	8		22.53	22.28	22.35		
3	1	14		22.41	22.32	22.36		
3	8	0		21.39	21.21	21.09		
3	8	4		21.34	21.14	21.20		
3	8	7		21.38	21.15	21.19		
3	15	0		21.35	21.10	21.09		
3	1	0	64-QAM	21.50	21.37	21.29	21.86	0.1535
3	1	8		21.50	21.28	21.26		
3	1	14		21.31	21.18	21.23		
3	8	0		20.40	20.17	20.08		
3	8	4		20.36	20.13	20.24		
3	8	7		20.31	20.17	20.30		
3	15	0		20.36	20.14	20.16		
Limit	EIRP < 1W			Result			Pass	



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Report No. : FG261611A

LTE Band 4 Maximum Average Power [dBm] (GT - LC = 0.36 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.09	23.21	23.09	23.57	0.2275
1.4	1	3		23.02	23.03	22.96		
1.4	1	5		23.01	23.01	22.94		
1.4	3	0		23.11	23.21	23.09		
1.4	3	1		23.02	22.97	22.95		
1.4	3	3		22.96	23.02	22.95		
1.4	6	0		22.14	22.01	22.02		
1.4	1	0	16-QAM	22.43	22.50	22.27	22.86	0.1932
1.4	1	3		22.45	22.34	22.34		
1.4	1	5		22.27	22.19	22.26		
1.4	3	0		22.44	22.50	22.34		
1.4	3	1		22.38	22.24	22.27		
1.4	3	3		22.25	22.19	22.32		
1.4	6	0		21.25	21.12	21.00		
1.4	1	0	64-QAM	21.40	21.42	21.26	21.80	0.1514
1.4	1	3		21.39	21.26	21.32		
1.4	1	5		21.25	21.14	21.25		
1.4	3	0		21.36	21.44	21.32		
1.4	3	1		21.41	21.32	21.30		
1.4	3	3		21.23	21.12	21.28		
1.4	6	0		20.29	20.13	20.11		
Limit	EIRP < 1W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -6.9 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	23.32	23.37	23.32	14.32	0.0270
10	1	25		23.30	23.31	23.27		
10	1	49		23.34	23.26	23.22		
10	25	0		22.35	22.38	22.37		
10	25	12		22.46	22.38	22.33		
10	25	25		22.43	22.33	22.30		
10	50	0		22.46	22.39	22.33		
10	1	0	16-QAM	22.63	22.60	22.66	13.61	0.0230
10	1	25		22.60	22.63	22.60		
10	1	49		22.66	22.55	22.52		
10	25	0		21.44	21.46	21.47		
10	25	12		21.50	21.47	21.42		
10	25	25		21.48	21.42	21.41		
10	50	0		21.49	21.43	21.43		
10	1	0	64-QAM	21.54	21.60	21.60	12.55	0.0180
10	1	25		21.51	21.57	21.52		
10	1	49		21.60	21.47	21.49		
10	25	0		20.43	20.49	20.49		
10	25	12		20.54	20.45	20.45		
10	25	25		20.50	20.40	20.36		
10	50	0		20.55	20.48	20.46		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -6.9 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.23	23.33	23.30	14.28	0.0268
5	1	12		23.27	23.30	23.21		
5	1	24		23.25	23.25	23.22		
5	12	0		22.34	22.30	22.36		
5	12	7		22.44	22.38	22.25		
5	12	13		22.37	22.26	22.27		
5	25	0		22.45	22.39	22.24		
5	1	0	16-QAM	22.53	22.60	22.62	13.57	0.0228
5	1	12		22.54	22.62	22.52		
5	1	24		22.56	22.48	22.45		
5	12	0		21.42	21.36	21.46		
5	12	7		21.43	21.46	21.34		
5	12	13		21.44	21.42	21.38		
5	25	0		21.39	21.39	21.37		
5	1	0	64-QAM	21.51	21.59	21.54	12.54	0.0179
5	1	12		21.49	21.53	21.45		
5	1	24		21.57	21.39	21.47		
5	12	0		20.34	20.39	20.42		
5	12	7		20.45	20.44	20.40		
5	12	13		20.41	20.32	20.33		
5	25	0		20.55	20.42	20.40		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -6.9 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	23.27	23.29	23.30	14.27	0.0267
3	1	8		23.22	23.23	23.20		
3	1	14		23.32	23.21	23.14		
3	8	0		22.28	22.30	22.30		
3	8	4		22.40	22.28	22.26		
3	8	7		22.40	22.23	22.26		
3	15	0		22.44	22.31	22.24		
3	1	0	16-QAM	22.56	22.57	22.65	13.6	0.0229
3	1	8		22.59	22.59	22.60		
3	1	14		22.58	22.45	22.45		
3	8	0		21.34	21.37	21.41		
3	8	4		21.48	21.44	21.42		
3	8	7		21.47	21.37	21.40		
3	15	0		21.40	21.41	21.43		
3	1	0	64-QAM	21.53	21.51	21.58	12.53	0.0179
3	1	8		21.50	21.47	21.51		
3	1	14		21.58	21.44	21.49		
3	8	0		20.41	20.43	20.43		
3	8	4		20.48	20.36	20.36		
3	8	7		20.44	20.38	20.30		
3	15	0		20.51	20.48	20.42		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -6.9 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	23.23	23.27	23.26	14.28	0.0268
1.4	1	3		23.20	23.27	23.20		
1.4	1	5		23.30	23.18	23.13		
1.4	3	0		23.27	23.33	23.27		
1.4	3	1		23.20	23.22	23.21		
1.4	3	3		23.28	23.24	23.13		
1.4	6	0		22.43	22.38	22.24		
1.4	1	0	16-QAM	22.57	22.56	22.62	13.61	0.0230
1.4	1	3		22.60	22.56	22.58		
1.4	1	5		22.66	22.49	22.48		
1.4	3	0		22.60	22.60	22.66		
1.4	3	1		22.60	22.54	22.54		
1.4	3	3		22.64	22.48	22.42		
1.4	6	0		21.46	21.34	21.37		
1.4	1	0	64-QAM	21.50	21.50	21.51	12.54	0.0179
1.4	1	3		21.50	21.55	21.45		
1.4	1	5		21.56	21.47	21.44		
1.4	3	0		21.49	21.59	21.50		
1.4	3	1		21.50	21.51	21.47		
1.4	3	3		21.50	21.39	21.48		
1.4	6	0		20.48	20.45	20.37		
Limit	ERP < 7W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = -0.02 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.28	22.37	22.18	22.35	0.1718
20	1	49		22.32	22.29	22.25		
20	1	99		22.32	22.37	22.36		
20	50	0		21.35	21.34	21.25		
20	50	24		21.46	21.34	21.30		
20	50	50		21.35	21.39	21.36		
20	100	0		21.34	21.36	21.30		
20	1	0	16-QAM	21.59	21.58	21.54	21.67	0.1469
20	1	49		21.68	21.65	21.55		
20	1	99		21.69	21.69	21.66		
20	50	0		20.46	20.44	20.35		
20	50	24		20.53	20.45	20.40		
20	50	50		20.44	20.50	20.45		
20	100	0		20.41	20.43	20.38		
20	1	0	64-QAM	20.51	20.46	20.42	20.66	0.1164
20	1	49		20.62	20.55	20.51		
20	1	99		20.63	20.68	20.58		
20	50	0		19.48	19.45	19.36		
20	50	24		19.56	19.48	19.42		
20	50	50		19.45	19.53	19.47		
20	100	0		19.43	19.44	19.42		
Limit	EIRP < 2W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG261611A

LTE Band 7 Maximum Average Power [dBm] (GT - LC = -0.02 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.28	22.27	22.13	22.33	0.1710
15	1	37		22.26	22.23	22.17		
15	1	74		22.30	22.29	22.35		
15	36	0		21.34	21.26	21.22		
15	36	20		21.44	21.34	21.21		
15	36	39		21.28	21.31	21.34		
15	75	0		21.33	21.34	21.26		
15	1	0	16-QAM	21.57	21.49	21.47	21.62	0.1452
15	1	37		21.59	21.57	21.45		
15	1	74		21.64	21.62	21.56		
15	36	0		20.37	20.43	20.31		
15	36	20		20.53	20.41	20.39		
15	36	39		20.35	20.45	20.38		
15	75	0		20.31	20.43	20.28		
15	1	0	64-QAM	20.41	20.45	20.42	20.65	0.1161
15	1	37		20.57	20.55	20.43		
15	1	74		20.63	20.67	20.52		
15	36	0		19.48	19.40	19.36		
15	36	20		19.50	19.45	19.38		
15	36	39		19.36	19.47	19.46		
15	75	0		19.42	19.40	19.32		
Limit	EIRP < 2W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG261611A

LTE Band 7 Maximum Average Power [dBm] (GT - LC = -0.02 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.19	22.36	22.17	22.35	0.1718
10	1	25		22.25	22.24	22.22		
10	1	49		22.29	22.37	22.29		
10	25	0		21.27	21.27	21.19		
10	25	12		21.42	21.24	21.22		
10	25	25		21.35	21.35	21.31		
10	50	0		21.24	21.27	21.30		
10	1	0	16-QAM	21.54	21.55	21.54	21.64	0.1459
10	1	25		21.59	21.62	21.47		
10	1	49		21.63	21.66	21.56		
10	25	0		20.37	20.40	20.28		
10	25	12		20.43	20.43	20.32		
10	25	25		20.40	20.45	20.36		
10	50	0		20.40	20.37	20.36		
10	1	0	64-QAM	20.47	20.39	20.38	20.61	0.1151
10	1	25		20.52	20.47	20.48		
10	1	49		20.54	20.63	20.55		
10	25	0		19.43	19.36	19.36		
10	25	12		19.51	19.45	19.38		
10	25	25		19.44	19.48	19.45		
10	50	0		19.35	19.39	19.34		
Limit	EIRP < 2W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = -0.02 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.23	22.34	22.12	22.32	0.1706
5	1	12		22.29	22.21	22.17		
5	1	24		22.31	22.30	22.31		
5	12	0		21.32	21.30	21.15		
5	12	7		21.44	21.31	21.28		
5	12	13		21.27	21.35	21.26		
5	25	0		21.24	21.35	21.25		
5	1	0	16-QAM	21.52	21.56	21.44	21.64	0.1459
5	1	12		21.60	21.57	21.50		
5	1	24		21.64	21.62	21.66		
5	12	0		20.38	20.43	20.33		
5	12	7		20.45	20.39	20.31		
5	12	13		20.43	20.41	20.42		
5	25	0		20.36	20.42	20.38		
5	1	0	64-QAM	20.51	20.38	20.33	20.60	0.1148
5	1	12		20.55	20.54	20.51		
5	1	24		20.62	20.61	20.55		
5	12	0		19.38	19.45	19.35		
5	12	7		19.50	19.45	19.42		
5	12	13		19.36	19.50	19.42		
5	25	0		19.38	19.41	19.32		
Limit	EIRP < 2W			Result			Pass	



LTE Band 12 Maximum Average Power [dBm] (GT - LC = -8.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	23.41	23.36	23.49	13.04	0.0201
10	1	25		23.39	23.33	23.40		
10	1	49		23.35	23.40	23.48		
10	25	0		22.44	22.36	22.32		
10	25	12		22.43	22.36	22.33		
10	25	25		22.41	22.36	22.41		
10	50	0		22.42	22.37	22.31		
10	1	0	16-QAM	22.84	22.78	22.68	12.41	0.0174
10	1	25		22.79	22.74	22.79		
10	1	49		22.75	22.84	22.86		
10	25	0		21.54	21.48	21.43		
10	25	12		21.57	21.51	21.47		
10	25	25		21.51	21.47	21.53		
10	50	0		21.53	21.48	21.44		
10	1	0	64-QAM	21.74	21.72	21.62	11.36	0.0137
10	1	25		21.72	21.66	21.74		
10	1	49		21.68	21.75	21.81		
10	25	0		20.58	20.49	20.46		
10	25	12		20.57	20.53	20.49		
10	25	25		20.53	20.48	20.57		
10	50	0		20.56	20.52	20.44		
Limit	ERP < 3W			Result			Pass	



LTE Band 12 Maximum Average Power [dBm] (GT - LC = -8.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.35	23.35	23.45	13	0.0200
5	1	12		23.32	23.23	23.38		
5	1	24		23.25	23.37	23.44		
5	12	0		22.40	22.28	22.32		
5	12	7		22.35	22.28	22.32		
5	12	13		22.41	22.27	22.41		
5	25	0		22.37	22.30	22.27		
5	1	0	16-QAM	22.82	22.78	22.67	12.39	0.0173
5	1	12		22.69	22.73	22.76		
5	1	24		22.66	22.77	22.84		
5	12	0		21.45	21.39	21.35		
5	12	7		21.56	21.47	21.46		
5	12	13		21.47	21.46	21.43		
5	25	0		21.51	21.42	21.42		
5	1	0	64-QAM	21.64	21.66	21.56	11.36	0.0137
5	1	12		21.68	21.64	21.67		
5	1	24		21.60	21.69	21.81		
5	12	0		20.48	20.40	20.37		
5	12	7		20.56	20.53	20.48		
5	12	13		20.52	20.38	20.55		
5	25	0		20.53	20.42	20.42		
Limit	ERP < 3W			Result			Pass	



LTE Band 12 Maximum Average Power [dBm] (GT - LC = -8.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	23.33	23.33	23.45	13	0.0200
3	1	8		23.39	23.24	23.35		
3	1	14		23.31	23.39	23.45		
3	8	0		22.43	22.33	22.26		
3	8	4		22.41	22.28	22.33		
3	8	7		22.40	22.27	22.40		
3	15	0		22.38	22.36	22.28		
3	1	0	16-QAM	22.79	22.70	22.63	12.4	0.0174
3	1	8		22.79	22.73	22.77		
3	1	14		22.66	22.74	22.85		
3	8	0		21.45	21.44	21.38		
3	8	4		21.48	21.49	21.43		
3	8	7		21.50	21.46	21.52		
3	15	0		21.46	21.48	21.44		
3	1	0	64-QAM	21.68	21.69	21.61	11.31	0.0135
3	1	8		21.63	21.65	21.68		
3	1	14		21.62	21.67	21.76		
3	8	0		20.51	20.43	20.42		
3	8	4		20.53	20.46	20.45		
3	8	7		20.51	20.40	20.49		
3	15	0		20.56	20.49	20.42		
Limit	ERP < 3W			Result			Pass	



LTE Band 12 Maximum Average Power [dBm] (GT - LC = -8.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	23.34	23.36	23.44	13	0.0200
1.4	1	3		23.29	23.33	23.31		
1.4	1	5		23.28	23.35	23.42		
1.4	3	0		23.32	23.33	23.41		
1.4	3	1		23.32	23.27	23.34		
1.4	3	3		23.31	23.40	23.45		
1.4	6	0		22.42	22.31	22.27		
1.4	1	0	16-QAM	22.77	22.76	22.68	12.35	0.0172
1.4	1	3		22.74	22.69	22.78		
1.4	1	5		22.70	22.78	22.80		
1.4	3	0		22.77	22.70	22.67		
1.4	3	1		22.70	22.72	22.74		
1.4	3	3		22.70	22.80	22.78		
1.4	6	0		21.53	21.39	21.43		
1.4	1	0	64-QAM	21.70	21.69	21.54	11.31	0.0135
1.4	1	3		21.66	21.64	21.71		
1.4	1	5		21.68	21.68	21.76		
1.4	3	0		21.65	21.62	21.58		
1.4	3	1		21.68	21.61	21.72		
1.4	3	3		21.62	21.74	21.71		
1.4	6	0		20.49	20.42	20.39		
Limit	ERP < 3W			Result			Pass	



LTE Band 13 Maximum Average Power [dBm] (GT - LC = -6.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)		
10	1	0	QPSK	-	23.34	-	14.99	0.0316		
10	1	25			23.31					
10	1	49			23.33					
10	25	0			22.36					
10	25	12			22.35					
10	25	25			22.30					
10	50	0			22.33					
10	1	0	16-QAM		22.41		-	14.28	0.0268	
10	1	25			22.59					
10	1	49			22.63					
10	25	0			21.46					
10	25	12			21.45					
10	25	25			21.38					
10	50	0			21.43					
10	1	0	64-QAM		21.34			-	13.22	0.0210
10	1	25			21.52					
10	1	49			21.57					
10	25	0			20.44					
10	25	12			20.49					
10	25	25			20.41					
10	50	0			20.46					
Limit	ERP < 3W			Result					Pass	



LTE Band 13 Maximum Average Power [dBm] (GT - LC = -6.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.18	23.10	23.12	14.83	0.0304
5	1	12		23.13	23.12	23.06		
5	1	24		23.16	23.18	23.13		
5	12	0		22.31	22.35	22.29		
5	12	7		22.34	22.30	22.26		
5	12	13		22.24	22.20	22.24		
5	25	0		22.32	22.30	22.26		
5	1	0	16-QAM	22.38	22.36	22.35	14.27	0.0267
5	1	12		22.55	22.58	22.51		
5	1	24		22.59	22.62	22.61		
5	12	0		21.37	21.40	21.44		
5	12	7		21.36	21.36	21.40		
5	12	13		21.35	21.35	21.38		
5	25	0		21.36	21.41	21.36		
5	1	0	64-QAM	21.28	21.28	21.29	13.19	0.0208
5	1	12		21.49	21.47	21.50		
5	1	24		21.52	21.52	21.54		
5	12	0		20.34	20.38	20.37		
5	12	7		20.49	20.43	20.49		
5	12	13		20.40	20.37	20.37		
5	25	0		20.41	20.44	20.42		
Limit	ERP < 3W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = -6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	23.20	23.39	23.13	14.56	0.0286
15	1	37		23.24	23.26	23.22		
15	1	74		23.23	23.51	23.08		
15	36	0		22.26	22.13	22.18		
15	36	20		22.24	22.17	22.18		
15	36	39		22.27	22.27	22.20		
15	75	0		22.25	22.25	22.14		
15	1	0	16-QAM	22.73	22.38	22.76	13.98	0.0250
15	1	37		22.44	22.93	22.48		
15	1	74		22.44	22.60	22.20		
15	36	0		21.32	21.33	21.23		
15	36	20		21.31	21.26	21.26		
15	36	39		21.32	21.36	21.28		
15	75	0		21.36	21.22	21.24		
15	1	0	64-QAM	21.11	21.40	21.07	12.61	0.0182
15	1	37		21.55	21.32	21.38		
15	1	74		21.56	21.47	21.20		
15	36	0		20.49	20.52	20.35		
15	36	20		20.35	20.57	20.27		
15	36	39		20.34	20.26	20.37		
15	75	0		20.33	20.24	20.22		
Limit	ERP < 7W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = -6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	23.35	23.13	23.13	14.49	0.0281
10	1	25		23.19	23.10	23.14		
10	1	49		23.44	23.14	23.08		
10	25	0		22.21	22.14	22.13		
10	25	12		22.36	22.19	22.18		
10	25	25		22.29	22.08	22.15		
10	50	0		22.31	22.25	22.14		
10	1	0	16-QAM	22.51	22.62	22.72	13.79	0.0239
10	1	25		22.74	22.41	22.46		
10	1	49		22.59	22.46	22.17		
10	25	0		21.19	21.15	21.16		
10	25	12		21.31	21.26	21.24		
10	25	25		21.36	21.30	21.22		
10	50	0		21.32	21.21	21.24		
10	1	0	64-QAM	21.41	21.10	21.04	12.65	0.0184
10	1	25		21.44	21.43	21.36		
10	1	49		21.60	21.49	21.10		
10	25	0		20.39	20.43	20.25		
10	25	12		20.42	20.44	20.24		
10	25	25		20.29	20.33	20.29		
10	50	0		20.37	20.17	20.18		
Limit	ERP < 7W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = -6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.38	23.19	23.08	14.43	0.0277
5	1	12		23.17	23.19	23.22		
5	1	24		23.32	23.29	23.04		
5	12	0		22.26	22.23	22.16		
5	12	7		22.19	22.19	22.16		
5	12	13		22.42	22.27	22.14		
5	25	0		22.23	22.29	22.09		
5	1	0	16-QAM	22.42	22.56	22.66	13.83	0.0242
5	1	12		22.78	22.29	22.43		
5	1	24		22.72	22.29	22.12		
5	12	0		21.26	21.23	21.23		
5	12	7		21.17	21.32	21.26		
5	12	13		21.33	21.28	21.25		
5	25	0		21.41	21.20	21.15		
5	1	0	64-QAM	21.45	20.99	21.03	12.66	0.0185
5	1	12		21.40	21.39	21.38		
5	1	24		21.61	21.43	21.19		
5	12	0		20.56	20.49	20.25		
5	12	7		20.44	20.36	20.26		
5	12	13		20.48	20.33	20.33		
5	25	0		20.21	20.39	20.17		
Limit	ERP < 7W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = -6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	23.21	23.14	23.05	14.41	0.0276
3	1	8		23.17	23.24	23.22		
3	1	14		23.36	23.25	23.08		
3	8	0		22.17	22.18	22.18		
3	8	4		22.17	22.23	22.18		
3	8	7		22.40	22.33	22.16		
3	15	0		22.33	22.22	22.07		
3	1	0	16-QAM	22.48	22.63	22.69	13.75	0.0237
3	1	8		22.70	22.37	22.48		
3	1	14		22.60	22.33	22.16		
3	8	0		21.22	21.25	21.20		
3	8	4		21.18	21.33	21.25		
3	8	7		21.34	21.22	21.22		
3	15	0		21.31	21.21	21.19		
3	1	0	64-QAM	21.46	21.06	21.07	12.7	0.0186
3	1	8		21.41	21.40	21.32		
3	1	14		21.65	21.43	21.10		
3	8	0		20.45	20.38	20.35		
3	8	4		20.34	20.34	20.20		
3	8	7		20.32	20.30	20.33		
3	15	0		20.27	20.20	20.13		
Limit	ERP < 7W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = -6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	23.32	23.26	23.11	14.37	0.0274
1.4	1	3		23.23	23.29	23.20		
1.4	1	5		23.26	23.27	22.99		
1.4	3	0		23.19	23.08	23.11		
1.4	3	1		23.04	23.12	23.13		
1.4	3	3		23.30	23.14	23.02		
1.4	6	0		22.26	22.34	22.13		
1.4	1	0	16-QAM	22.35	22.70	22.67	13.75	0.0237
1.4	1	3		22.69	22.44	22.41		
1.4	1	5		22.54	22.31	22.19		
1.4	3	0		22.51	22.63	22.67		
1.4	3	1		22.66	22.46	22.38		
1.4	3	3		22.62	22.31	22.10		
1.4	6	0		21.40	21.25	21.24		
1.4	1	0	64-QAM	21.48	21.07	21.03	12.63	0.0183
1.4	1	3		21.33	21.58	21.30		
1.4	1	5		21.53	21.50	21.12		
1.4	3	0		21.46	20.95	21.07		
1.4	3	1		21.36	21.46	21.36		
1.4	3	3		21.51	21.56	21.20		
1.4	6	0		20.16	20.21	20.17		
Limit	ERP < 7W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = -0.93 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.59	23.67	23.59	22.74	0.1879
20	1	49		23.59	23.61	23.61		
20	1	99		23.62	23.66	23.66		
20	50	0		22.71	22.67	22.67		
20	50	24		22.64	22.69	22.69		
20	50	50		22.66	22.70	22.70		
20	100	0		22.68	22.72	22.72		
20	1	0	16-QAM	22.74	22.64	22.64	21.86	0.1535
20	1	49		22.72	22.74	22.74		
20	1	99		22.74	22.79	22.79		
20	50	0		21.80	21.75	21.75		
20	50	24		21.72	21.77	21.77		
20	50	50		21.74	21.81	21.81		
20	100	0		21.76	21.81	21.81		
20	1	0	64-QAM	21.49	21.40	21.40	20.58	0.1143
20	1	49		21.47	21.44	21.44		
20	1	99		21.51	21.51	21.51		
20	50	0		20.79	20.76	20.76		
20	50	24		20.72	20.79	20.79		
20	50	50		20.74	20.83	20.83		
20	100	0		20.67	20.84	20.84		
Limit	EIRP < 2W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = -0.93 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.52	23.67	23.53	22.74	0.1879
15	1	37		23.52	23.51	23.55		
15	1	74		23.57	23.57	23.62		
15	36	0		22.70	22.62	22.61		
15	36	20		22.60	22.67	22.69		
15	36	39		22.59	22.61	22.67		
15	75	0		22.60	22.66	22.72		
15	1	0	16-QAM	22.65	22.60	22.62	21.80	0.1514
15	1	37		22.70	22.71	22.72		
15	1	74		22.67	22.73	22.72		
15	36	0		21.77	21.73	21.73		
15	36	20		21.71	21.75	21.72		
15	36	39		21.65	21.77	21.75		
15	75	0		21.75	21.81	21.81		
15	1	0	64-QAM	21.41	21.39	21.36	20.54	0.1132
15	1	37		21.41	21.36	21.39		
15	1	74		21.45	21.44	21.47		
15	36	0		20.76	20.72	20.71		
15	36	20		20.69	20.73	20.70		
15	36	39		20.68	20.79	20.76		
15	75	0		20.65	20.78	20.78		
Limit	EIRP < 2W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = -0.93 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.58	23.61	23.54	22.73	0.1875
10	1	25		23.57	23.51	23.53		
10	1	49		23.60	23.66	23.65		
10	25	0		22.62	22.66	22.63		
10	25	12		22.60	22.61	22.62		
10	25	25		22.66	22.67	22.64		
10	50	0		22.67	22.64	22.65		
10	1	0	16-QAM	22.74	22.63	22.61	21.81	0.1517
10	1	25		22.65	22.72	22.73		
10	1	49		22.68	22.70	22.72		
10	25	0		21.80	21.72	21.69		
10	25	12		21.72	21.68	21.71		
10	25	25		21.64	21.76	21.76		
10	50	0		21.66	21.78	21.71		
10	1	0	64-QAM	21.39	21.39	21.32	20.58	0.1143
10	1	25		21.47	21.38	21.39		
10	1	49		21.42	21.51	21.45		
10	25	0		20.76	20.74	20.69		
10	25	12		20.65	20.72	20.70		
10	25	25		20.73	20.82	20.80		
10	50	0		20.65	20.77	20.84		
Limit	EIRP < 2W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = -0.93 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.55	23.66	23.52	22.73	0.1875
5	1	12		23.52	23.51	23.59		
5	1	24		23.52	23.62	23.59		
5	12	0		22.71	22.63	22.58		
5	12	7		22.56	22.59	22.59		
5	12	13		22.63	22.66	22.69		
5	25	0		22.62	22.70	22.68		
5	1	0	16-QAM	22.68	22.57	22.61	21.83	0.1524
5	1	12		22.69	22.74	22.66		
5	1	24		22.72	22.71	22.76		
5	12	0		21.71	21.67	21.73		
5	12	7		21.63	21.71	21.77		
5	12	13		21.64	21.80	21.71		
5	25	0		21.66	21.76	21.76		
5	1	0	64-QAM	21.45	21.33	21.30	20.56	0.1138
5	1	12		21.39	21.44	21.37		
5	1	24		21.42	21.49	21.48		
5	12	0		20.73	20.68	20.73		
5	12	7		20.63	20.70	20.73		
5	12	13		20.67	20.83	20.81		
5	25	0		20.63	20.82	20.84		
Limit	EIRP < 2W			Result			Pass	



LTE Band 41 Maximum Average Power [dBm] (GT - LC = -0.02 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.31	22.22	22.07	22.29	0.1694
20	1	49		22.25	22.08	22.08		
20	1	99		22.21	22.24	22.15		
20	50	0		21.18	21.25	21.17		
20	50	24		21.22	21.34	21.10		
20	50	50		21.17	21.21	21.21		
20	100	0		21.25	21.18	21.09		
20	1	0	16-QAM	21.27	21.23	21.24	21.37	0.1371
20	1	49		21.39	21.32	21.29		
20	1	99		21.30	21.39	21.31		
20	50	0		20.35	20.35	20.18		
20	50	24		20.42	20.35	20.29		
20	50	50		20.36	20.33	20.34		
20	100	0		20.33	20.29	20.31		
20	1	0	64-QAM	20.00	20.07	20.00	20.10	0.1023
20	1	49		20.10	20.06	20.05		
20	1	99		20.12	20.04	20.09		
20	50	0		19.32	19.35	19.30		
20	50	24		19.42	19.36	19.30		
20	50	50		19.33	19.33	19.26		
20	100	0		19.30	19.29	19.33		
Limit	EIRP < 2W			Result			Pass	



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LTE Band 41 Maximum Average Power [dBm] (GT - LC = -0.02 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.28	22.07	22.23	22.26	0.1683
15	1	37		22.08	22.24	22.08		
15	1	74		22.28	22.28	22.14		
15	36	0		21.22	21.21	21.15		
15	36	20		21.30	21.24	21.18		
15	36	39		21.27	21.21	21.18		
15	75	0		21.31	21.23	21.18		
15	1	0	16-QAM	21.25	21.37	21.22	21.41	0.1384
15	1	37		21.43	21.39	21.14		
15	1	74		21.42	21.33	21.20		
15	36	0		20.27	20.27	20.22		
15	36	20		20.37	20.31	20.26		
15	36	39		20.34	20.30	20.28		
15	75	0		20.33	20.35	20.21		
15	1	0	64-QAM	20.01	20.02	19.89	20.17	0.1040
15	1	37		19.98	20.15	19.91		
15	1	74		20.06	20.19	20.08		
15	36	0		19.31	19.31	19.28		
15	36	20		19.40	19.36	19.32		
15	36	39		19.37	19.35	19.24		
15	75	0		19.32	19.36	19.33		
Limit	EIRP < 2W			Result			Pass	



LTE Band 41 Maximum Average Power [dBm] (GT - LC = -0.02 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.28	22.10	22.04	22.26	0.1683
10	1	25		22.17	22.19	22.19		
10	1	49		22.26	22.22	22.16		
10	25	0		21.12	21.14	21.16		
10	25	12		21.18	21.21	21.22		
10	25	25		21.16	21.20	21.17		
10	50	0		21.21	21.24	21.23		
10	1	0	16-QAM	21.22	21.36	21.20	21.34	0.1361
10	1	25		21.32	21.35	21.36		
10	1	49		21.27	21.34	21.30		
10	25	0		20.25	20.28	20.30		
10	25	12		20.31	20.34	20.36		
10	25	25		20.28	20.33	20.31		
10	50	0		20.32	20.26	20.36		
10	1	0	64-QAM	20.07	20.11	19.98	20.14	0.1033
10	1	25		20.16	20.11	19.93		
10	1	49		20.13	20.11	20.08		
10	25	0		19.39	19.33	19.25		
10	25	12		19.35	19.39	19.33		
10	25	25		19.32	19.39	19.28		
10	50	0		19.32	19.27	19.28		
Limit	EIRP < 2W			Result			Pass	



LTE Band 41 Maximum Average Power [dBm] (GT - LC = -0.02 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.15	22.20	22.08	22.18	0.1652
5	1	12		22.17	22.16	22.19		
5	1	24		22.02	22.19	22.14		
5	12	0		21.13	21.24	21.25		
5	12	7		21.16	21.24	21.18		
5	12	13		21.19	21.22	21.10		
5	25	0		21.09	21.17	21.20		
5	1	0	16-QAM	21.28	21.33	21.31	21.39	0.1377
5	1	12		21.33	21.41	21.17		
5	1	24		21.32	21.29	21.34		
5	12	0		20.20	20.22	20.14		
5	12	7		20.25	20.22	20.17		
5	12	13		20.27	20.30	20.19		
5	25	0		20.33	20.30	20.26		
5	1	0	64-QAM	20.06	19.99	20.11	20.09	0.1021
5	1	12		19.98	20.08	20.04		
5	1	24		19.99	20.06	20.04		
5	12	0		19.25	19.38	19.31		
5	12	7		19.30	19.38	19.25		
5	12	13		19.42	19.26	19.27		
5	25	0		19.26	19.35	19.31		
Limit	EIRP < 2W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.38	23.26	23.17	23.73	0.2360
20	1	49		23.31	23.25	23.10		
20	1	99		23.16	23.01	23.11		
20	50	0		22.48	22.44	22.27		
20	50	24		22.41	22.37	22.32		
20	50	50		22.39	22.25	22.21		
20	100	0		22.39	22.34	22.30		
20	1	0	16-QAM	22.69	22.48	22.47	23.04	0.2014
20	1	49		22.64	22.56	22.38		
20	1	99		22.43	22.36	22.40		
20	50	0		21.59	21.51	21.33		
20	50	24		21.49	21.43	21.41		
20	50	50		21.44	21.32	21.29		
20	100	0		21.42	21.39	21.34		
20	1	0	64-QAM	21.65	21.43	21.37	22.00	0.1585
20	1	49		21.61	21.53	21.39		
20	1	99		21.37	21.25	21.34		
20	50	0		20.61	20.52	20.36		
20	50	24		20.51	20.45	20.42		
20	50	50		20.50	20.34	20.31		
20	100	0		20.47	20.43	20.35		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.35	23.26	23.14	23.70	0.2344
15	1	37		23.24	23.22	23.00		
15	1	74		23.13	22.96	23.03		
15	36	0		22.44	22.36	22.26		
15	36	20		22.38	22.29	22.22		
15	36	39		22.35	22.22	22.17		
15	75	0		22.39	22.30	22.24		
15	1	0	16-QAM	22.61	22.44	22.41	22.96	0.1977
15	1	37		22.56	22.48	22.36		
15	1	74		22.38	22.31	22.36		
15	36	0		21.51	21.44	21.28		
15	36	20		21.47	21.35	21.33		
15	36	39		21.39	21.24	21.20		
15	75	0		21.38	21.36	21.28		
15	1	0	64-QAM	21.56	21.43	21.27	21.91	0.1552
15	1	37		21.55	21.51	21.30		
15	1	74		21.35	21.21	21.27		
15	36	0		20.53	20.42	20.28		
15	36	20		20.46	20.36	20.35		
15	36	39		20.46	20.24	20.26		
15	75	0		20.47	20.39	20.29		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.35	23.26	23.15	23.70	0.2344
10	1	25		23.28	23.25	23.03		
10	1	49		23.11	22.99	23.08		
10	25	0		22.40	22.34	22.18		
10	25	12		22.37	22.29	22.32		
10	25	25		22.37	22.22	22.11		
10	50	0		22.33	22.26	22.28		
10	1	0	16-QAM	22.60	22.42	22.44	22.95	0.1972
10	1	25		22.58	22.54	22.37		
10	1	49		22.43	22.30	22.31		
10	25	0		21.53	21.45	21.28		
10	25	12		21.47	21.34	21.36		
10	25	25		21.41	21.25	21.27		
10	50	0		21.32	21.34	21.26		
10	1	0	64-QAM	21.55	21.36	21.35	21.91	0.1552
10	1	25		21.56	21.50	21.36		
10	1	49		21.31	21.22	21.27		
10	25	0		20.61	20.48	20.32		
10	25	12		20.43	20.41	20.40		
10	25	25		20.44	20.31	20.31		
10	50	0		20.40	20.33	20.32		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.35	23.25	23.16	23.70	0.2344
5	1	12		23.27	23.25	23.06		
5	1	24		23.15	23.00	23.08		
5	12	0		22.42	22.40	22.18		
5	12	7		22.32	22.33	22.25		
5	12	13		22.30	22.21	22.13		
5	25	0		22.34	22.30	22.22		
5	1	0	16-QAM	22.63	22.48	22.45	22.98	0.1986
5	1	12		22.58	22.55	22.38		
5	1	24		22.41	22.32	22.33		
5	12	0		21.51	21.48	21.24		
5	12	7		21.48	21.34	21.32		
5	12	13		21.39	21.28	21.28		
5	25	0		21.32	21.37	21.33		
5	1	0	64-QAM	21.60	21.34	21.32	21.95	0.1567
5	1	12		21.53	21.49	21.30		
5	1	24		21.30	21.18	21.29		
5	12	0		20.59	20.50	20.36		
5	12	7		20.49	20.43	20.32		
5	12	13		20.40	20.26	20.27		
5	25	0		20.43	20.37	20.31		
Limit	EIRP < 1W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG261611A

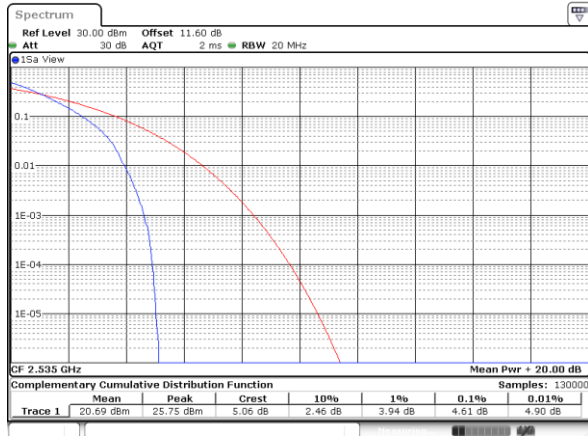
LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.37	23.24	23.12	23.72	0.2355
3	1	8		23.27	23.24	23.01		
3	1	14		23.09	23.01	23.03		
3	8	0		22.42	22.37	22.19		
3	8	4		22.31	22.27	22.28		
3	8	7		22.29	22.19	22.13		
3	15	0		22.38	22.34	22.30		
3	1	0	16-QAM	22.61	22.45	22.43	22.96	0.1977
3	1	8		22.59	22.49	22.30		
3	1	14		22.40	22.26	22.30		
3	8	0		21.49	21.47	21.28		
3	8	4		21.39	21.33	21.35		
3	8	7		21.39	21.26	21.20		
3	15	0		21.40	21.35	21.33		
3	1	0	64-QAM	21.63	21.35	21.35	21.98	0.1578
3	1	8		21.53	21.45	21.36		
3	1	14		21.31	21.24	21.31		
3	8	0		20.60	20.46	20.33		
3	8	4		20.45	20.37	20.40		
3	8	7		20.48	20.31	20.28		
3	15	0		20.41	20.33	20.31		
Limit	EIRP < 1W			Result			Pass	



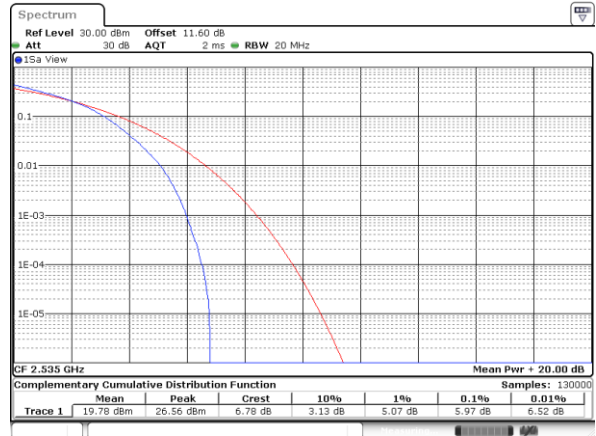
LTE Band 66 Maximum Average Power [dBm] (GT - LC = 0.35 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.32	23.22	23.15	23.67	0.2328
1.4	1	3		23.22	23.20	23.09		
1.4	1	5		23.15	22.96	23.11		
1.4	3	0		23.32	23.16	23.12		
1.4	3	1		23.21	23.23	23.08		
1.4	3	3		23.09	22.91	23.02		
1.4	6	0		22.39	22.29	22.30		
1.4	1	0	16-QAM	22.64	22.47	22.44	23.01	0.2000
1.4	1	3		22.64	22.48	22.37		
1.4	1	5		22.37	22.26	22.40		
1.4	3	0		22.66	22.39	22.41		
1.4	3	1		22.63	22.46	22.28		
1.4	3	3		22.36	22.32	22.31		
1.4	6	0		21.40	21.31	21.26		
1.4	1	0	64-QAM	21.59	21.42	21.32	22.00	0.1585
1.4	1	3		21.51	21.53	21.37		
1.4	1	5		21.28	21.19	21.32		
1.4	3	0		21.65	21.34	21.32		
1.4	3	1		21.54	21.43	21.32		
1.4	3	3		21.33	21.23	21.29		
1.4	6	0		20.47	20.35	20.30		
Limit	EIRP < 1W			Result			Pass	

**LTE Band 7****Peak-to-Average Ratio**

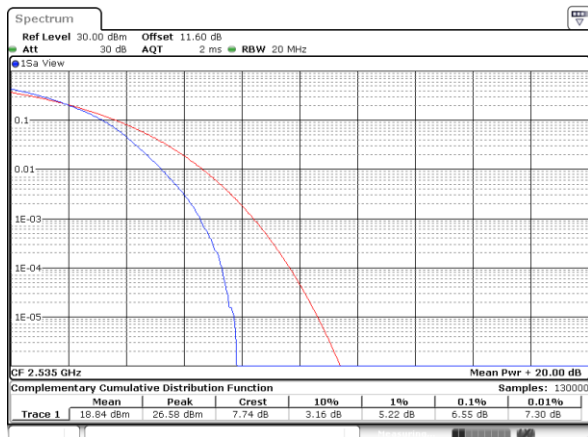
Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.61	5.97	6.55	PASS

LTE Band 7 / 20MHz / QPSK
Middle Channel / Full RB


Date: 28.JUL.2022 20:44:28

LTE Band 7 / 20MHz / 16QAM
Middle Channel / Full RB


Date: 28.JUL.2022 20:44:03

LTE Band 7 / 20MHz / 64QAM
Middle Channel / Full RB


Date: 28.JUL.2022 20:44:53

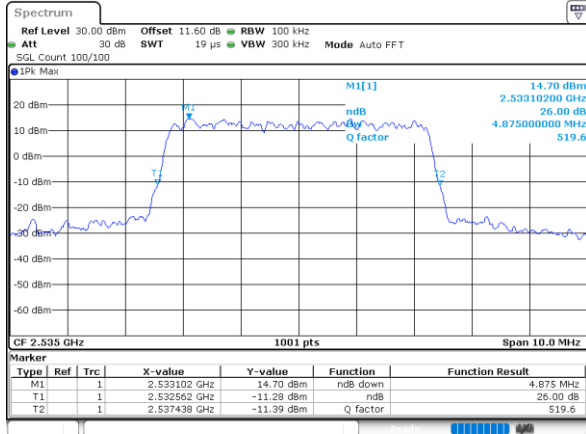
**26dB Bandwidth**

Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.88	4.99	9.69	9.81	14.51	14.48	18.90	18.90
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.92	-	9.87	-	14.42	-	18.94	-

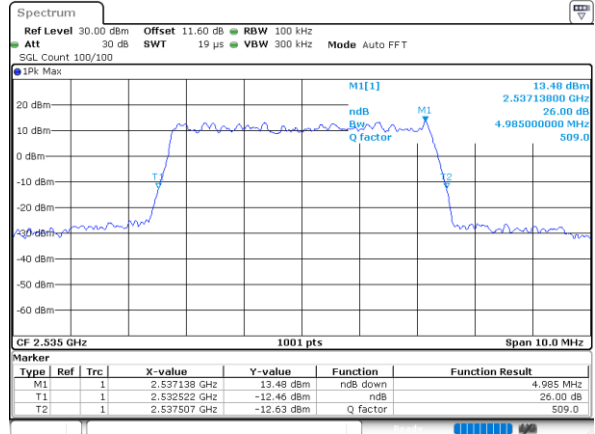


LTE Band 7

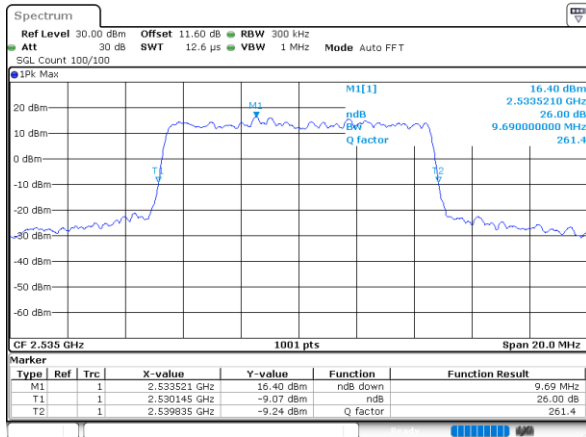
Middle Channel / 5MHz / QPSK



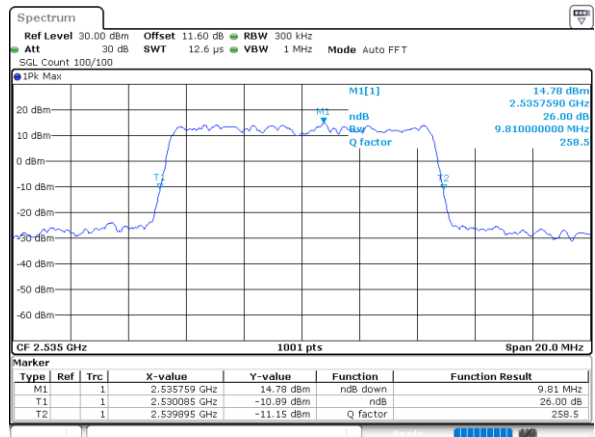
Middle Channel / 5MHz / 16QAM



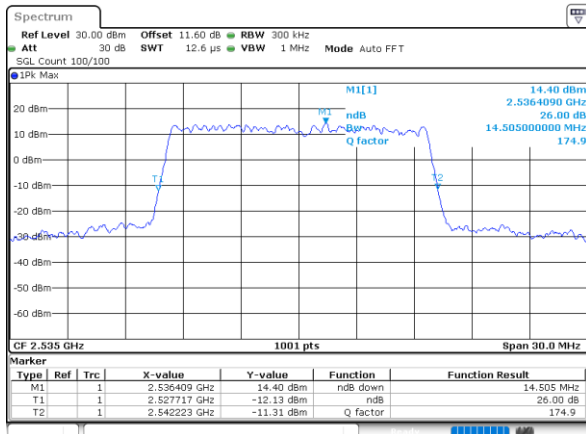
Middle Channel / 10MHz / QPSK



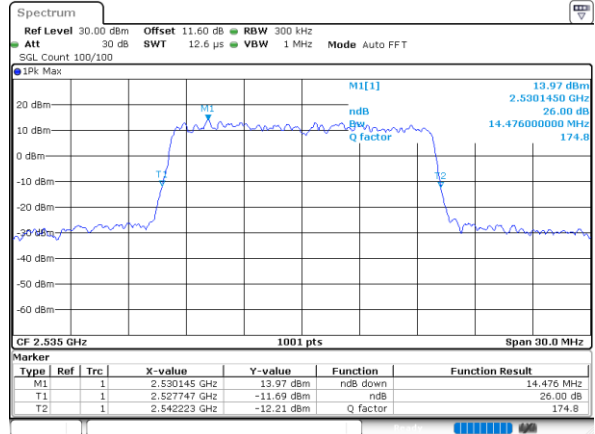
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



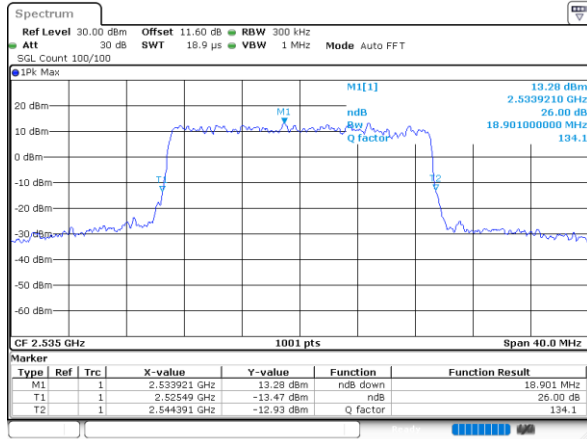
Middle Channel / 15MHz / 16QAM



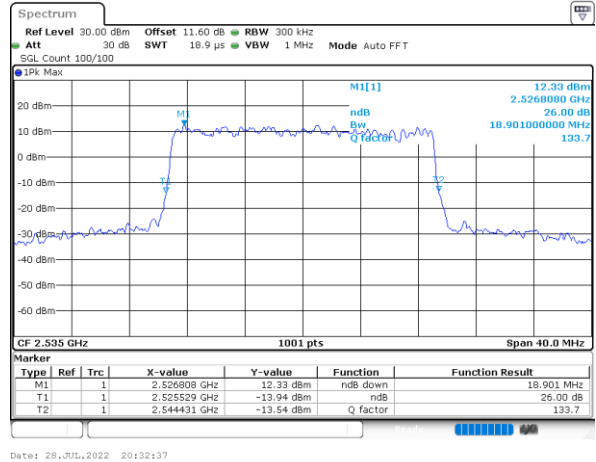


LTE Band 7

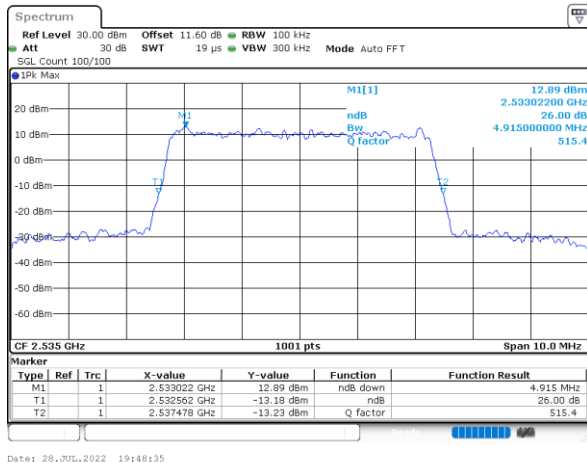
Middle Channel / 20MHz / QPSK



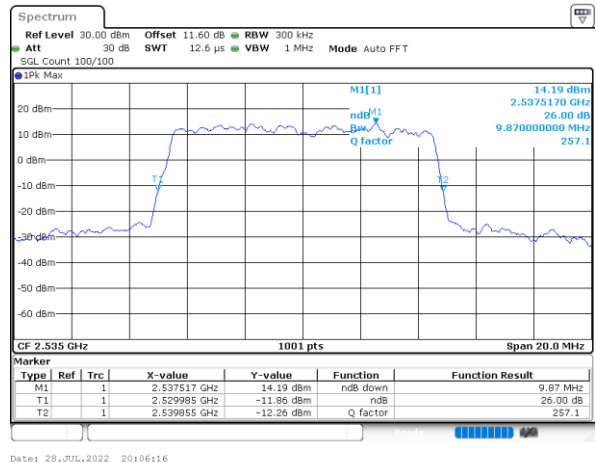
Middle Channel / 20MHz / 16QAM



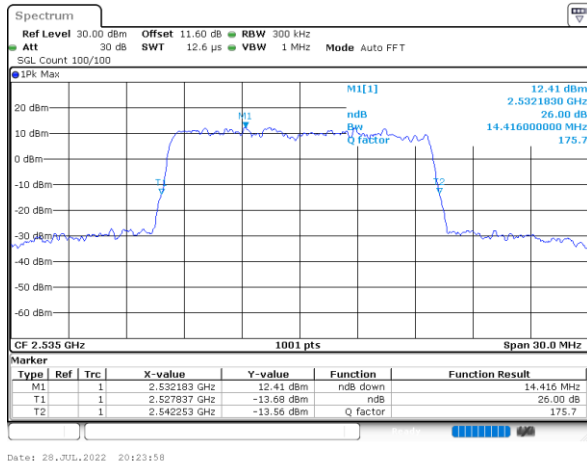
Middle Channel / 5MHz / 64QAM



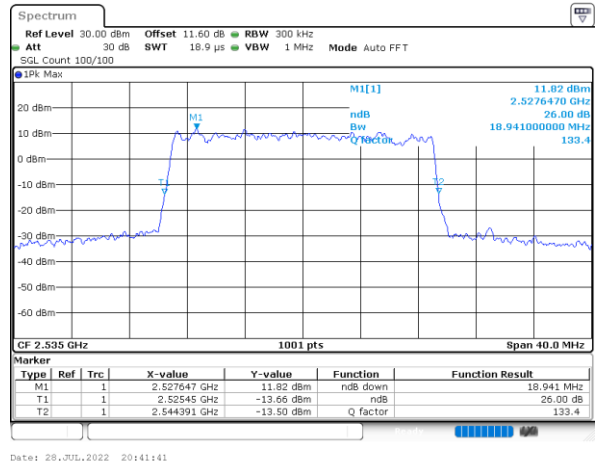
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM



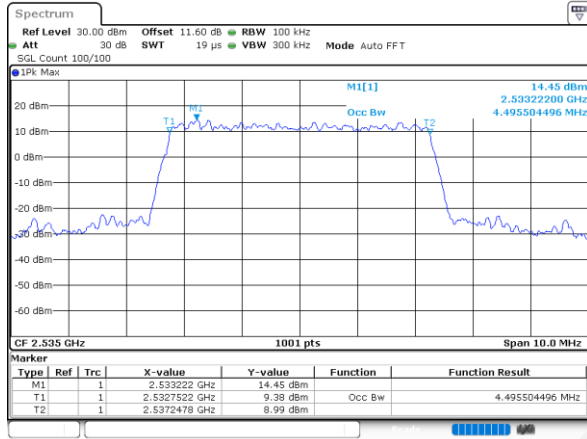
**Occupied Bandwidth**

Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.50	4.48	9.05	9.03	13.49	13.37	17.90	17.90
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.50	-	9.05	-	13.46	-	17.82	-

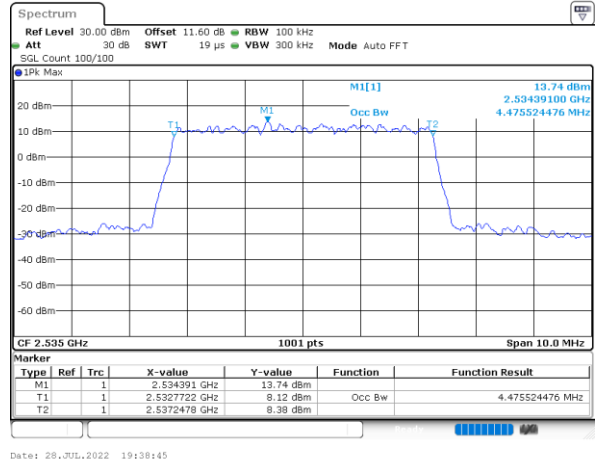


LTE Band 7

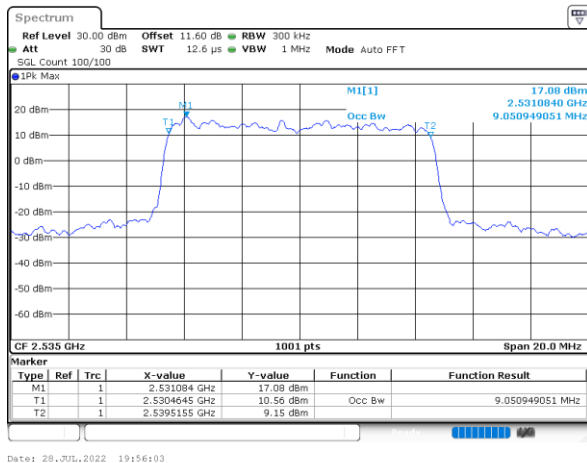
Middle Channel / 5MHz / QPSK



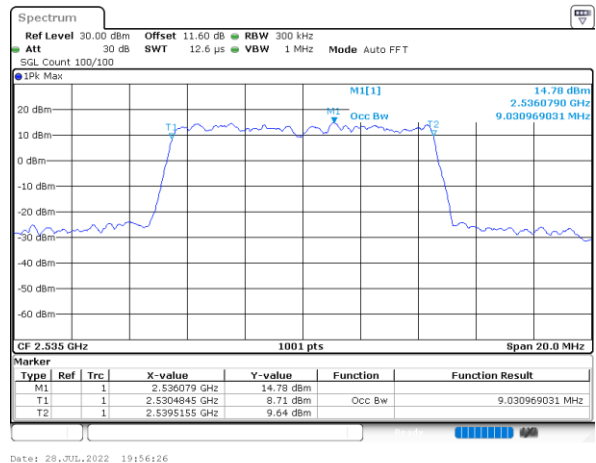
Middle Channel / 5MHz / 16QAM



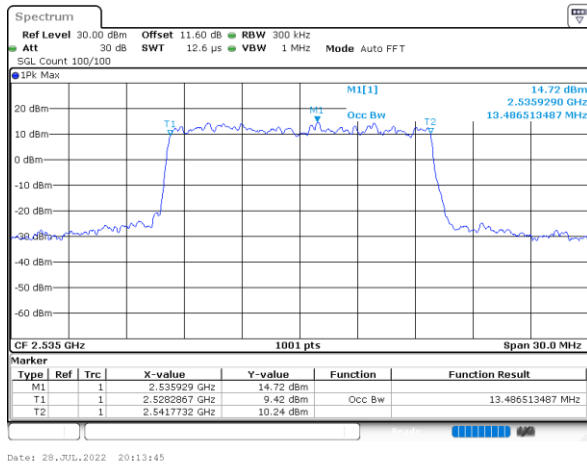
Middle Channel / 10MHz / QPSK



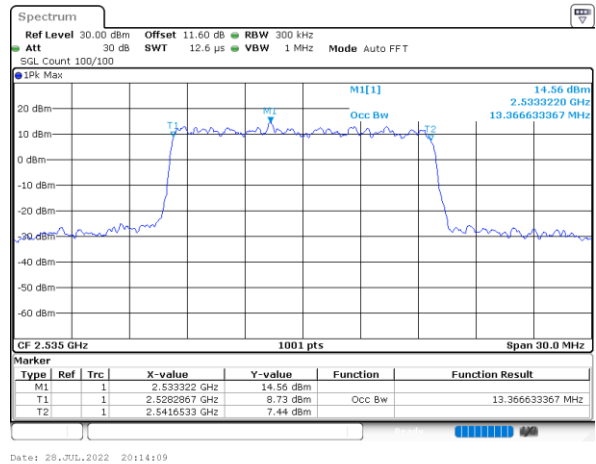
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



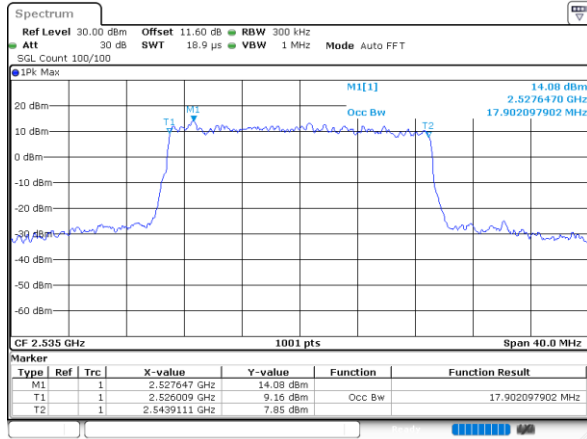
Middle Channel / 15MHz / 16QAM



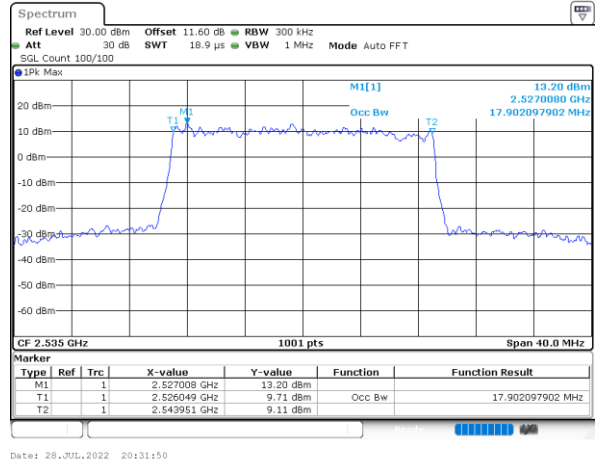


LTE Band 7

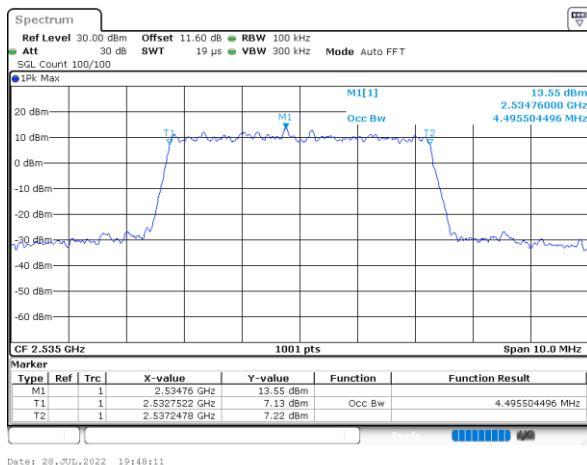
Middle Channel / 20MHz / QPSK



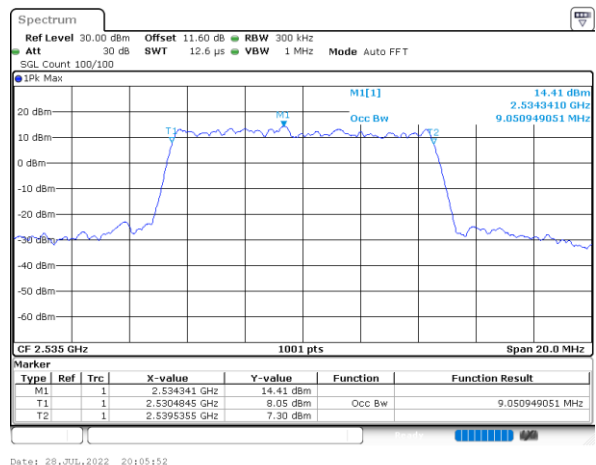
Middle Channel / 20MHz / 16QAM



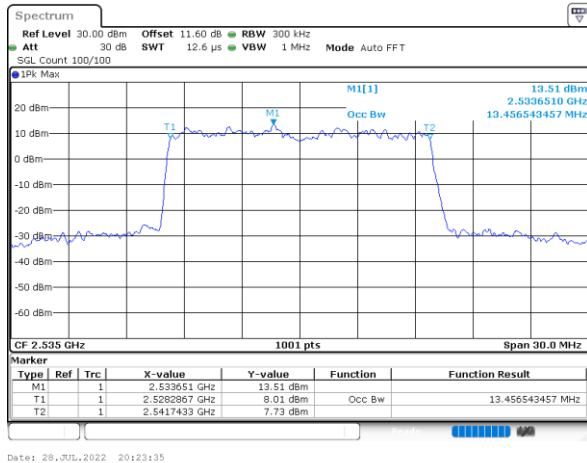
Middle Channel / 5MHz / 64QAM



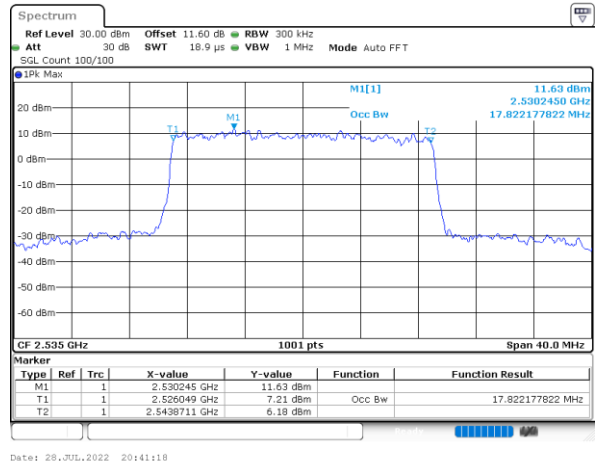
Middle Channel / 10MHz / 64QAM

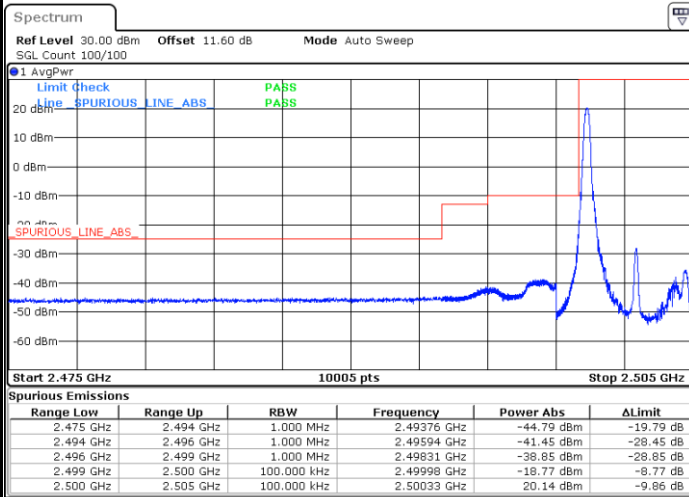
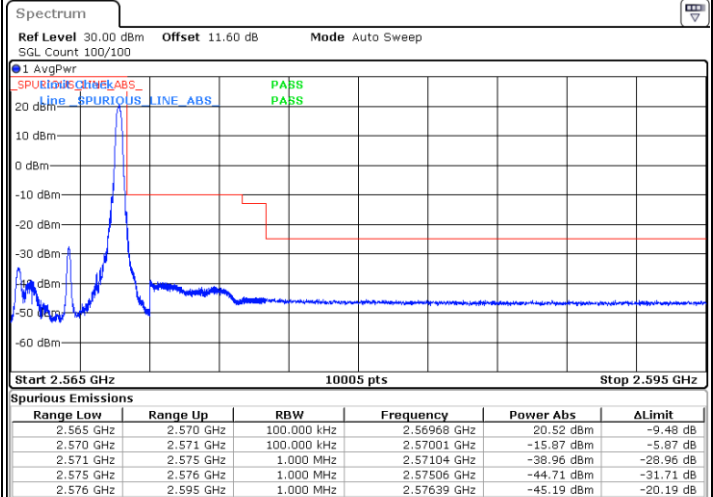
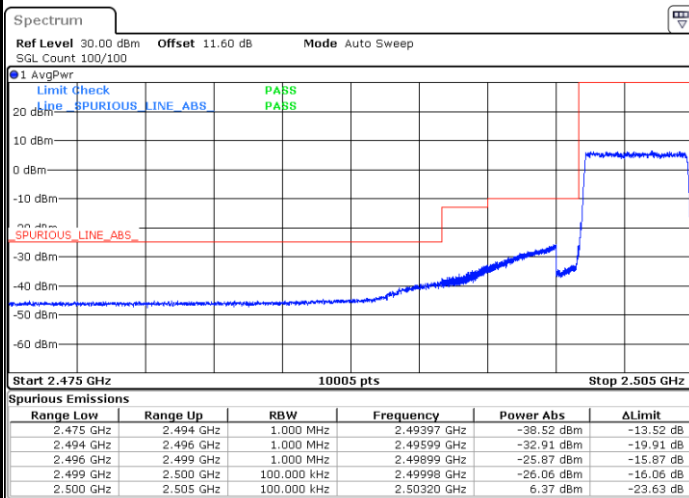
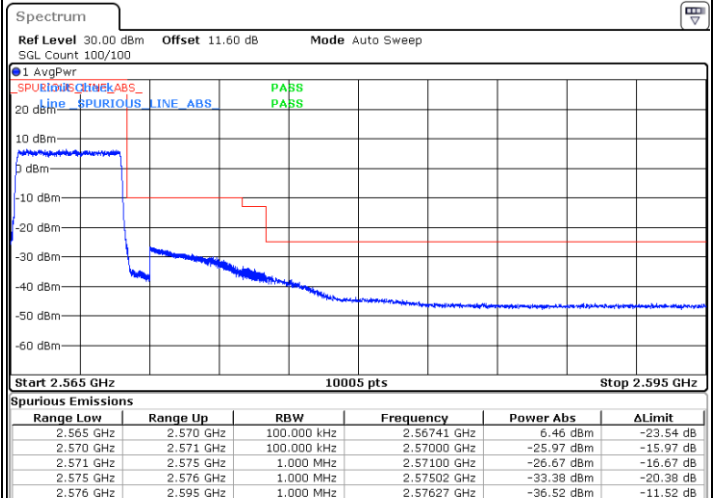


Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM

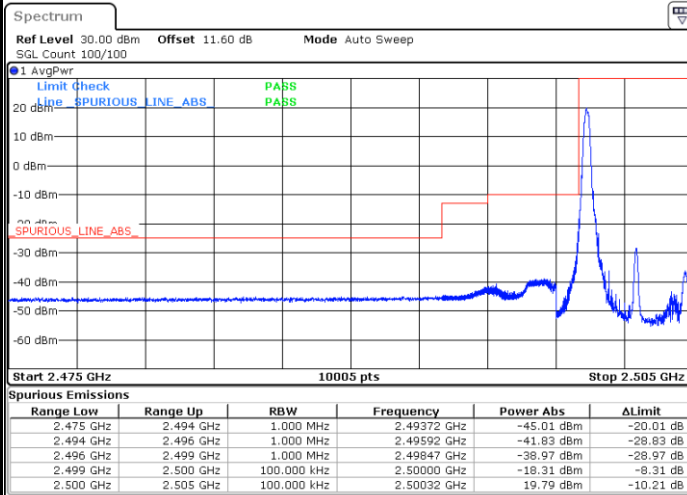


**Conducted Band Edge****LTE Band 7 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

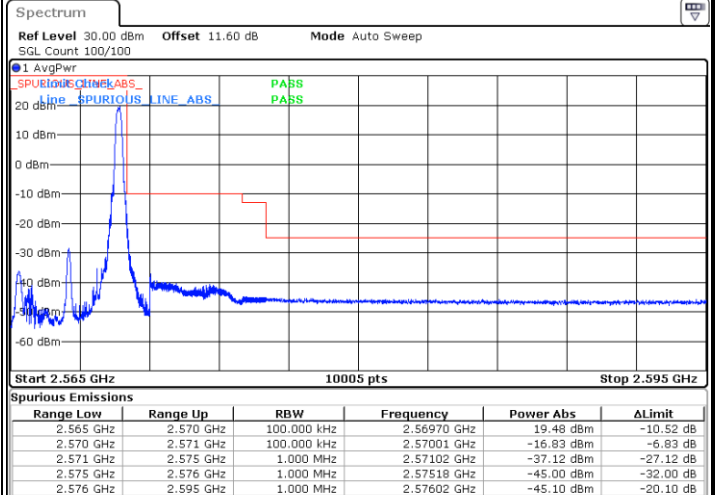


LTE Band 7 / 5MHz / 16QAM

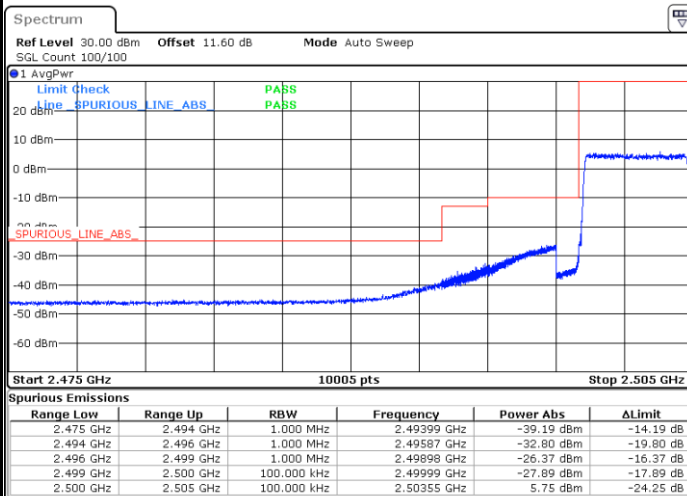
Lowest Band Edge / 1RB



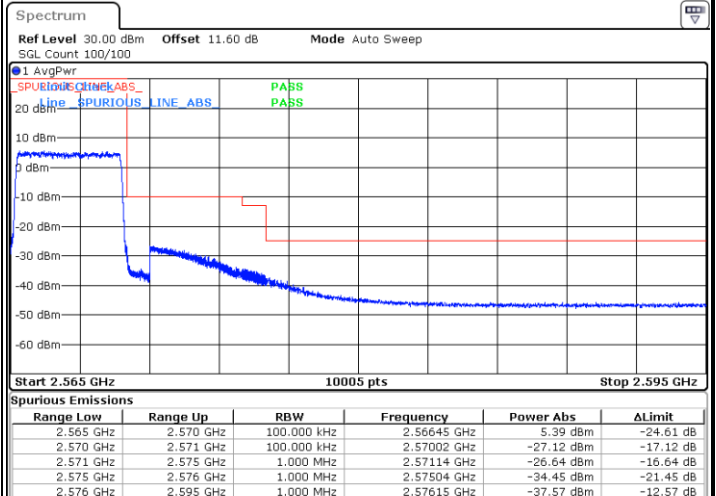
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



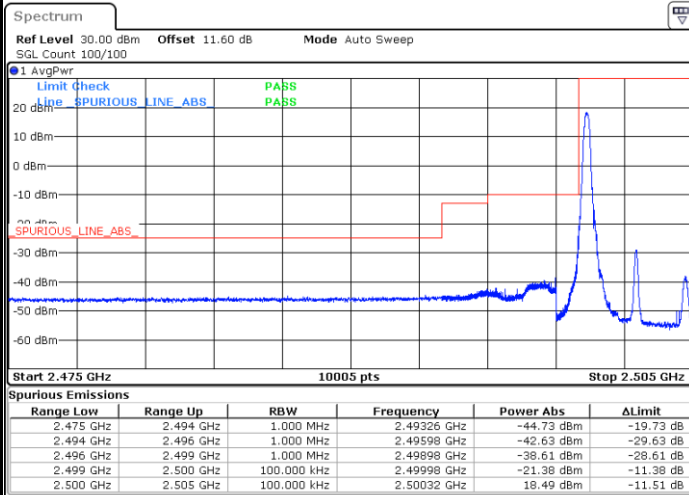
Highest Band Edge / Full RB





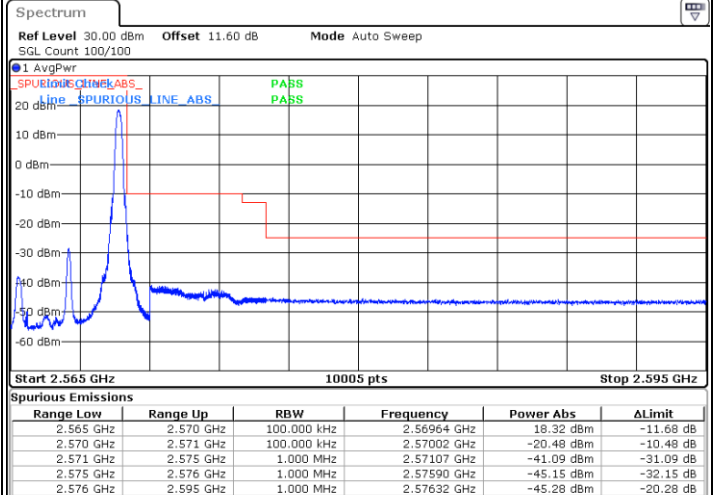
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



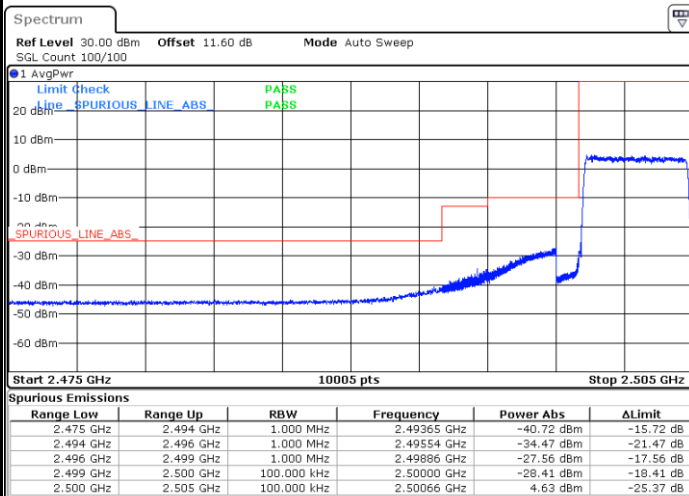
Date: 28.JUL.2022 19:46:49

Highest Band Edge / 1 RB



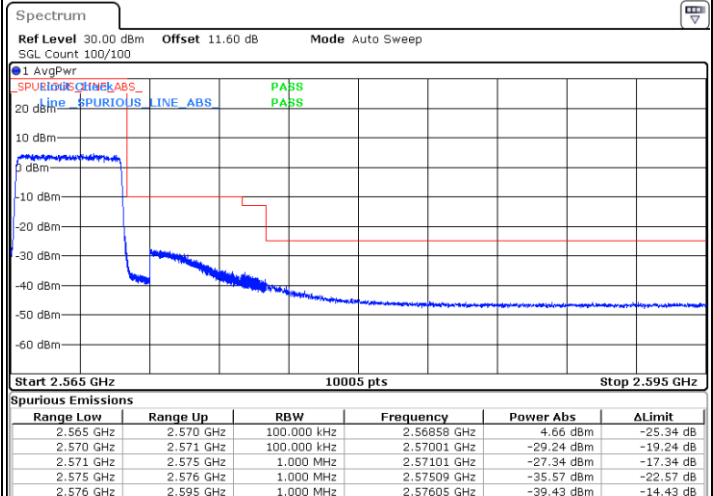
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Lowest Band Edge / Full RB



Date: 28.JUL.2022 19:47:47

Highest Band Edge / Full RB

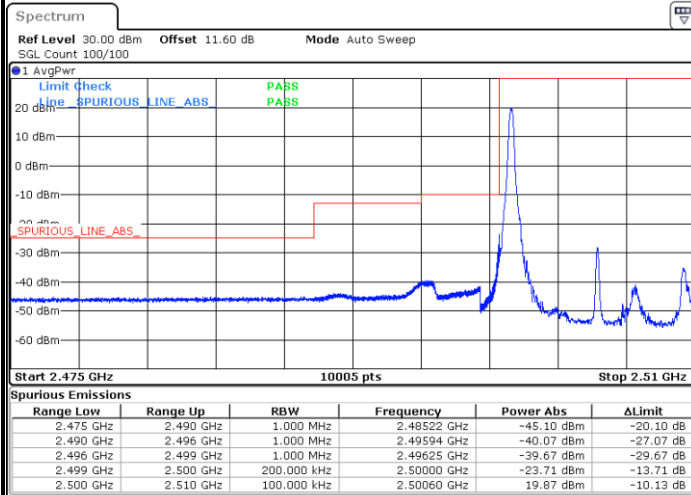


Date: 28.JUL.2022 19:50:31

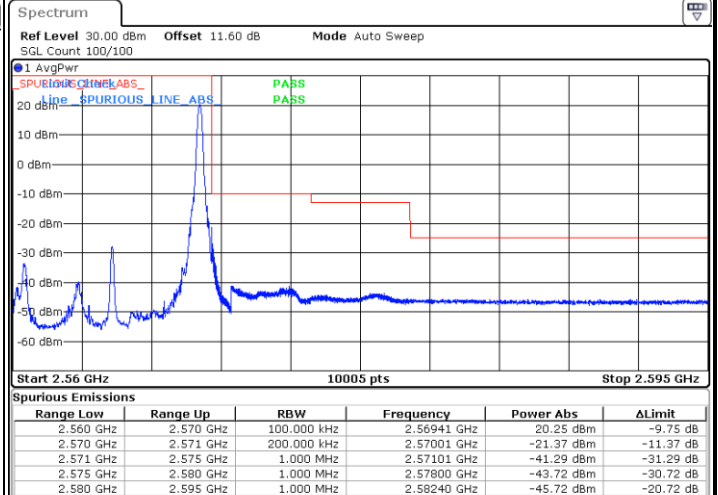


LTE Band 7 / 10MHz / QPSK

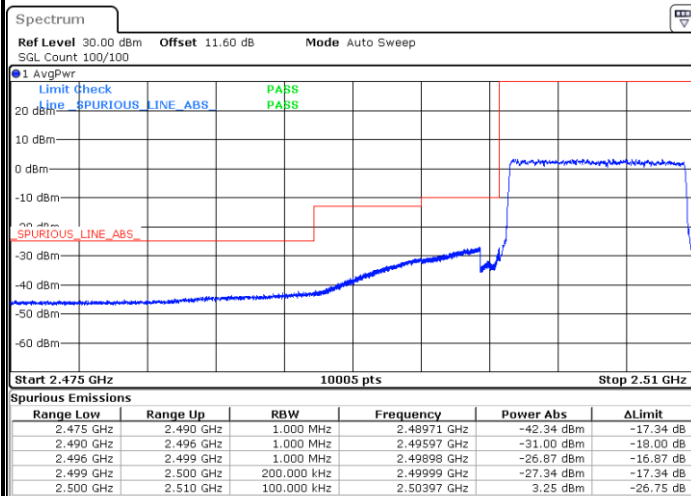
Lowest Band Edge / 1 RB



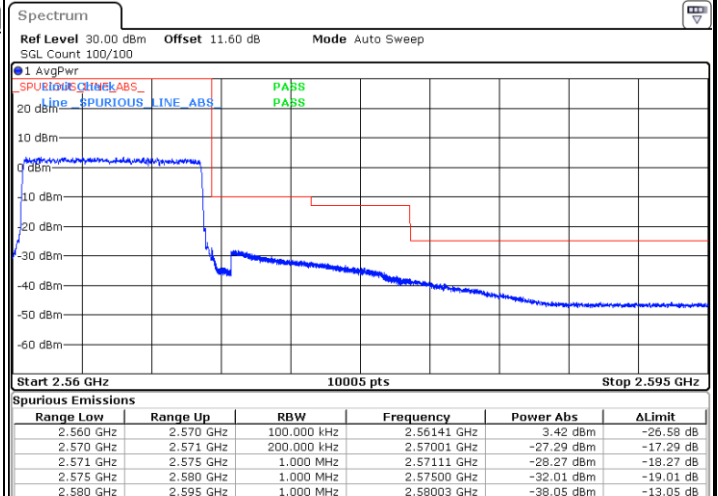
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



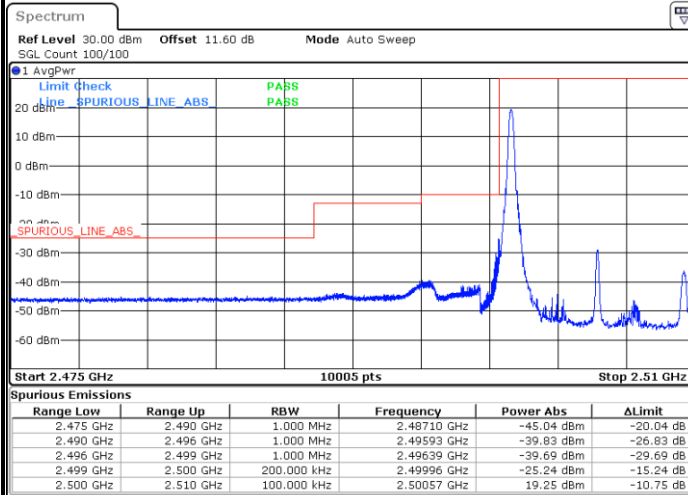
Highest Band Edge / Full RB



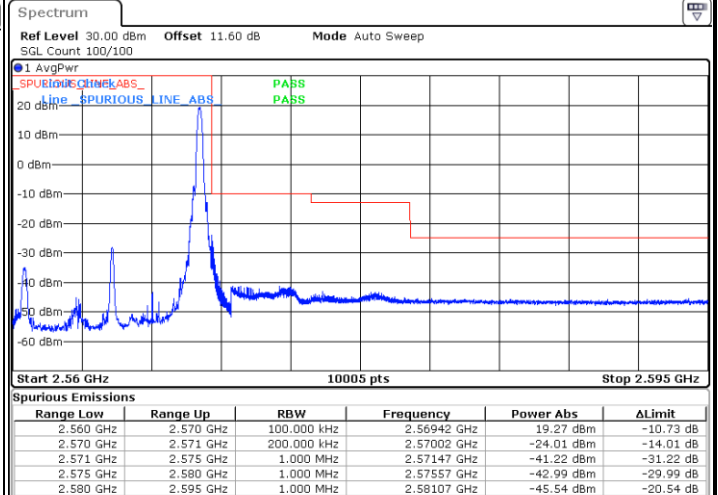


LTE Band 7 / 10MHz / 16QAM

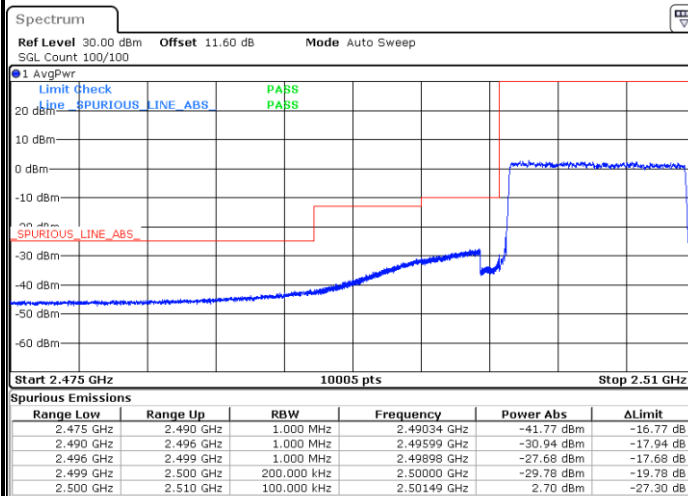
Lowest Band Edge / 1 RB



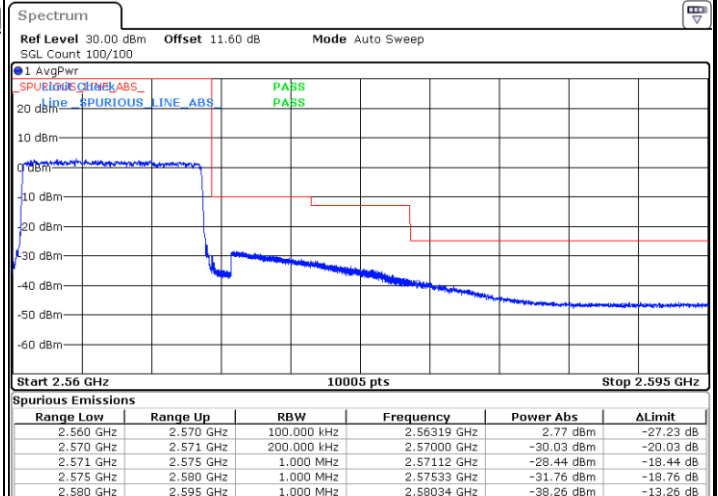
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



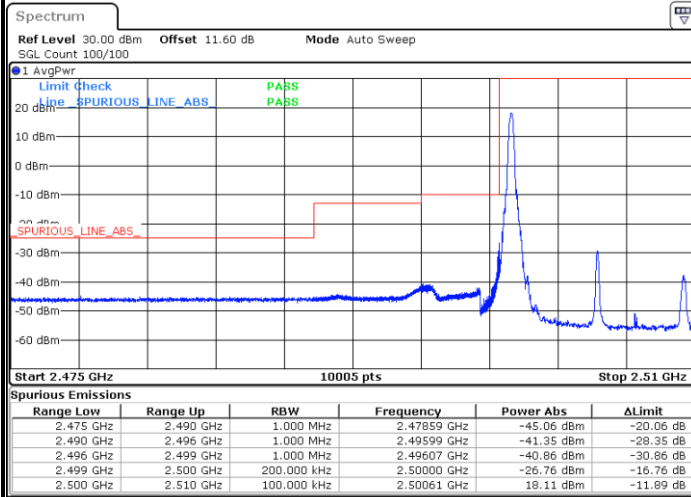
Highest Band Edge / Full RB



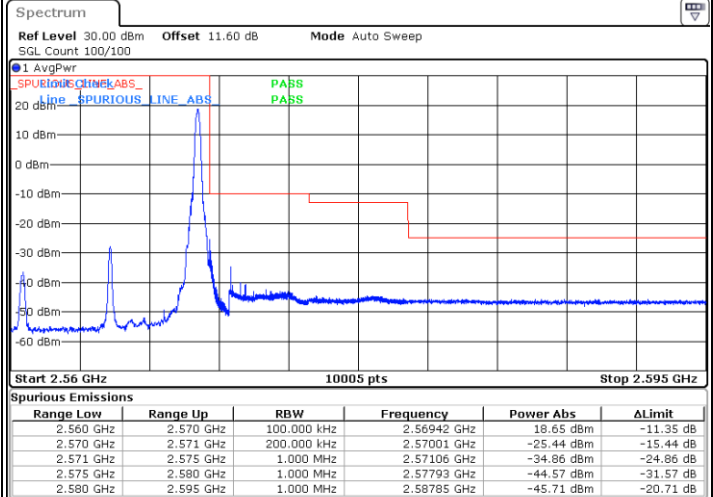


LTE Band 7 / 10MHz / 64QAM

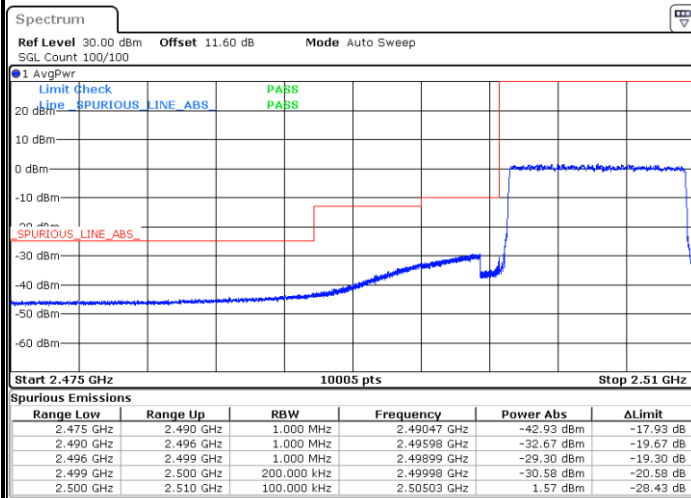
Lowest Band Edge / 1 RB



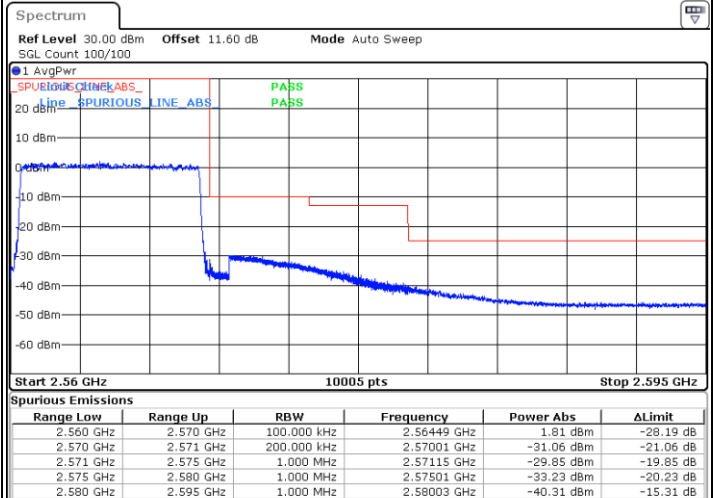
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



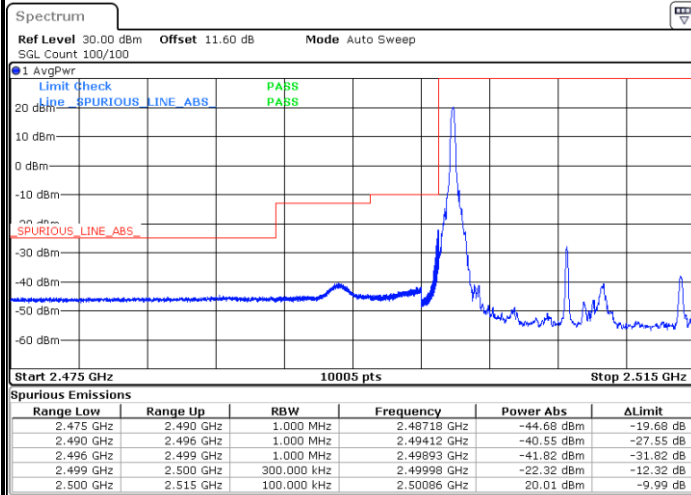
Highest Band Edge / Full RB



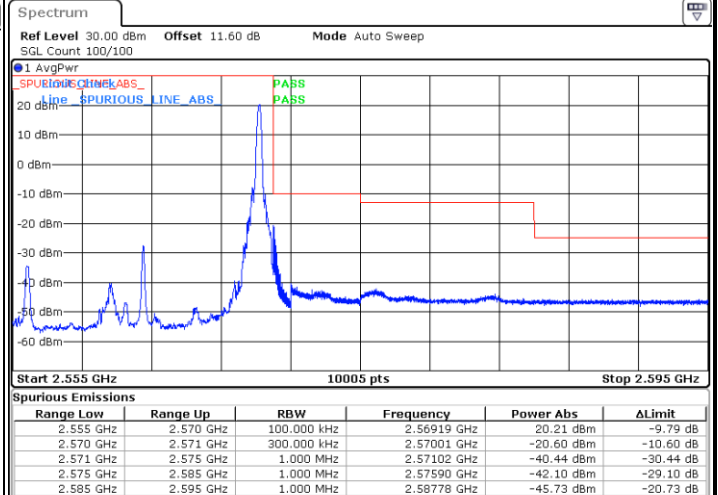


LTE Band 7 / 15MHz / QPSK

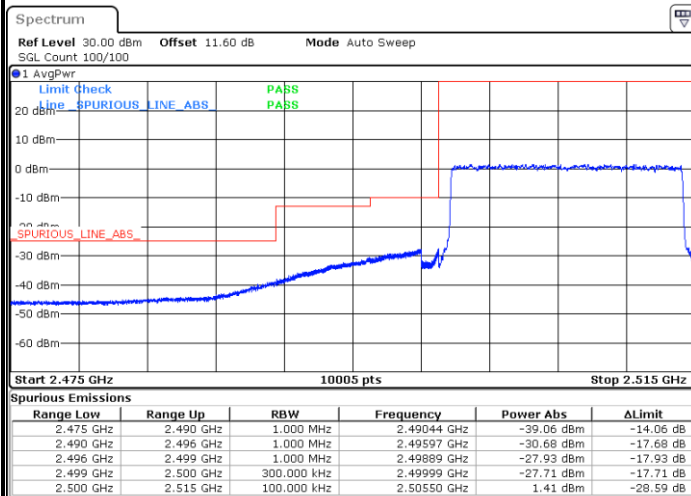
Lowest Band Edge / 1 RB



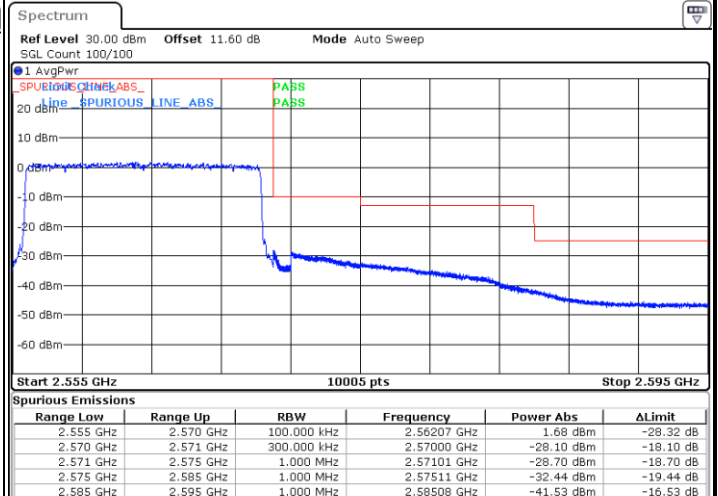
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



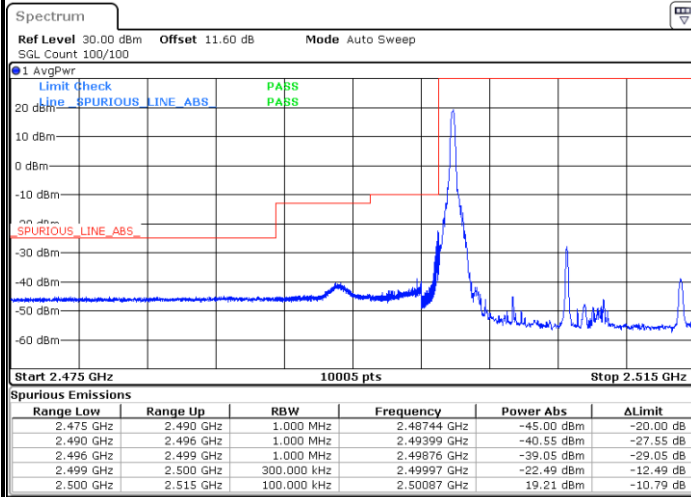
Highest Band Edge / Full RB



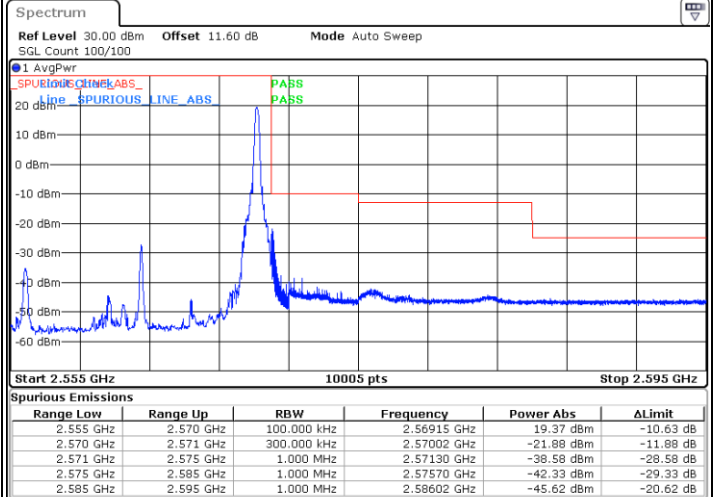


LTE Band 7 / 15MHz / 16QAM

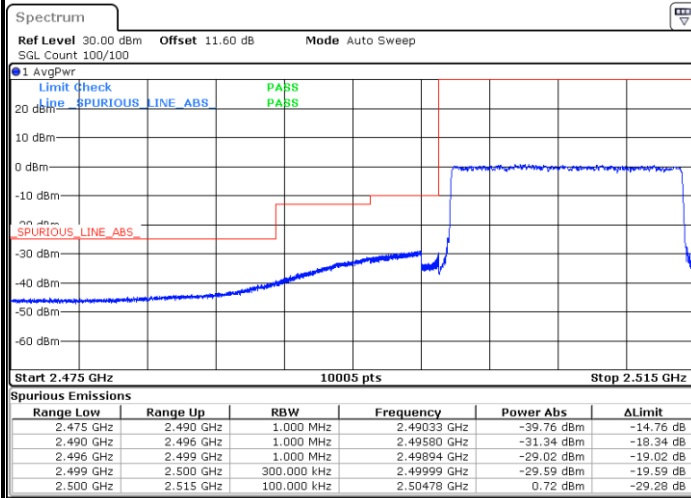
Lowest Band Edge / 1 RB



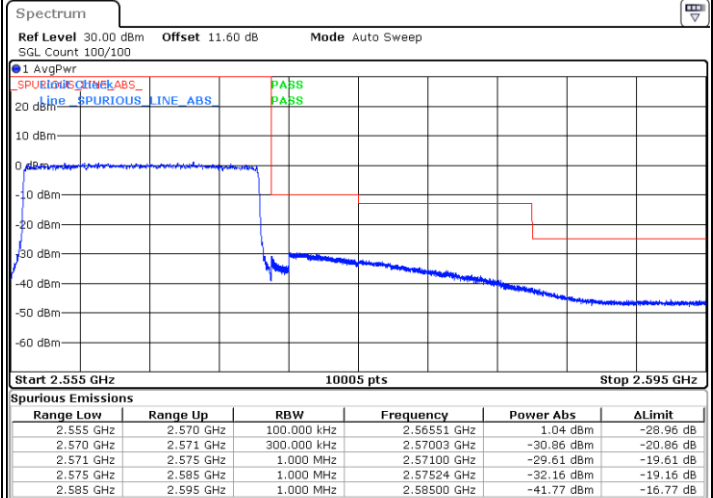
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



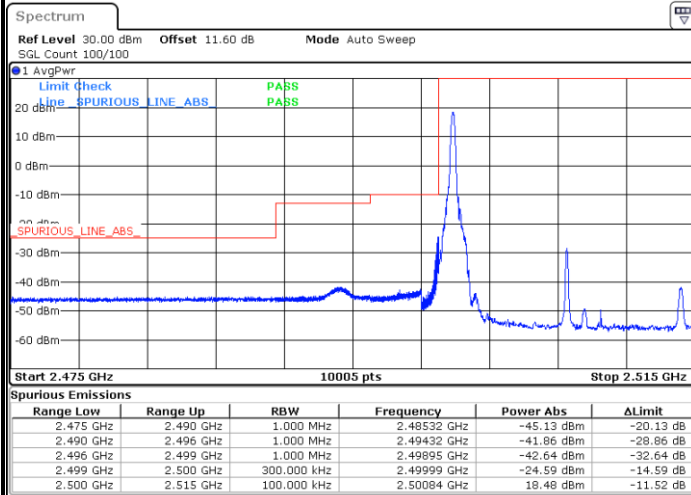
Highest Band Edge / Full RB



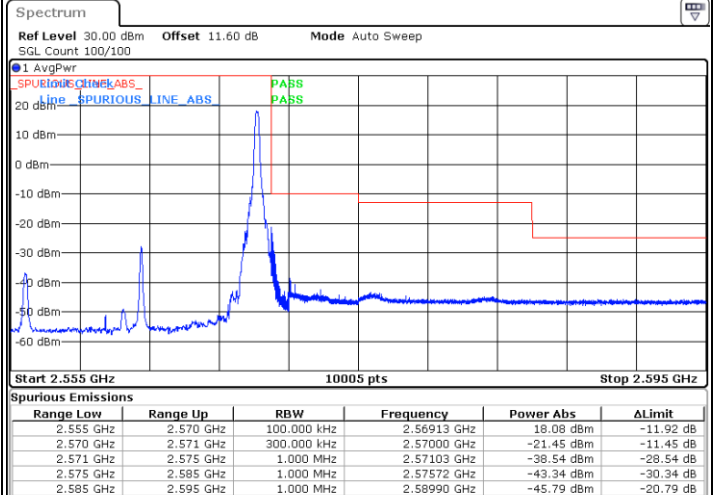


LTE Band 7 / 15MHz / 64QAM

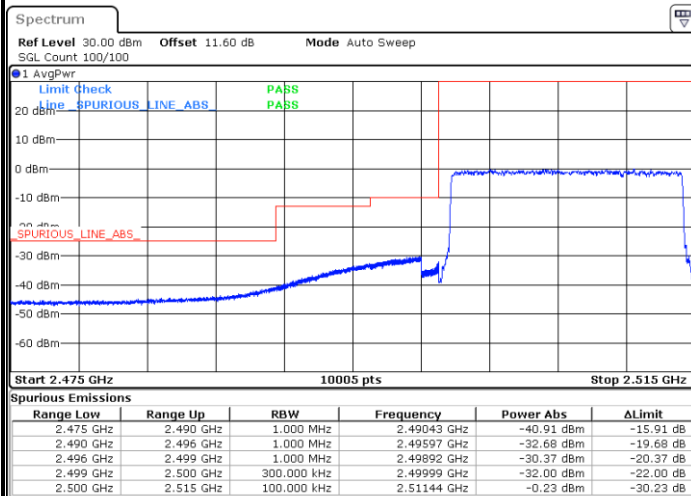
Lowest Band Edge / 1 RB



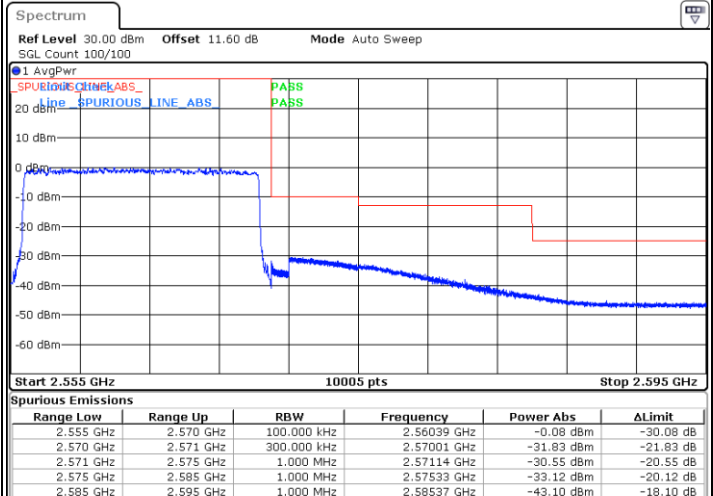
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



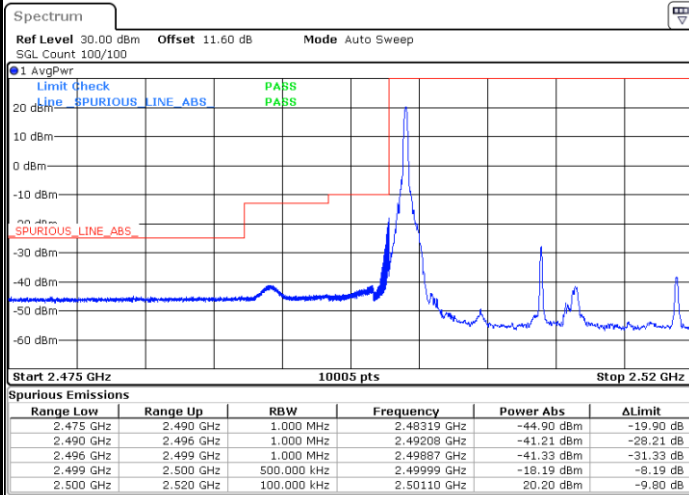
Highest Band Edge / Full RB



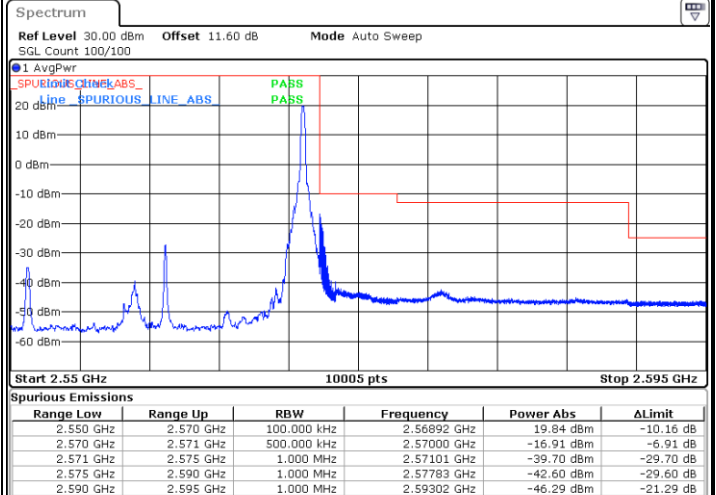


LTE Band 7 / 20MHz / QPSK

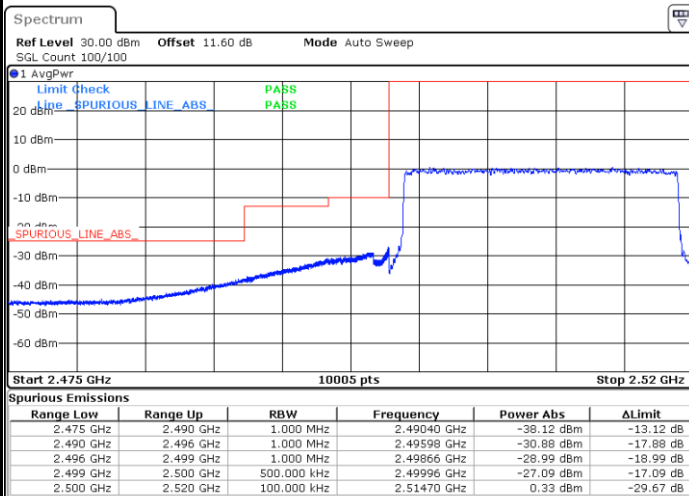
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

