



FCC RADIO TEST REPORT

FCC ID : HFS-QTAWUA
Equipment : 5G USB Modem
Model Name : QTAWUA
Applicant : Quanta Computer Inc.
NO.188, Wenhua 2nd Rd., Guishan
Dist., Taoyuan City 33377, Taiwan
Manufacturer : Quanta Computer Inc.
NO.188, Wenhua 2nd Rd., Guishan
Dist., Taoyuan City 33377, Taiwan
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on May 31, 2024 and testing was performed from Jun. 11, 2024 to Jul. 11, 2024. 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 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
FG451315A	01	Initial issue of report	Dec. 24, 2024



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§22.913 (a)(5)	Effective Radiated Power (Band 5)	Pass	
	§27.50 (b)(10)	Effective Radiated Power (Band 13)		
	§24.232 (c)	Equivalent Isotropic Radiated Power (Band 2)		
	§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	Pass	-
3.5	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2)(4) §27.53 (h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 13) (Band 66)	Pass	-
3.6	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 13) (Band 66)	Pass	-
3.7	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	-
4.2	§2.1053 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (f) §27.53 (h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 13) (Band 66)	Pass	17.98 dB under the limit at 1560.00 MHz

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

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

Reviewed by: Keven Cheng**Report Producer: Clío Lo**



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs LTE and 5G NR.
Antenna Type WWAN: PIFA Antenna

Support band and evaluated information	
Supported band	B2, B4, B5,B13,B66, B66B, B66C
Evaluated and Tested band	B2, B4, B5,B13,B66, B66B, B66C

TDD band Power Class		
	PC3	PC2
B2	V	
B4	V	
B5	V	
B13	V	
B66/ B66B/ B66C	V	

Antenna information(dBi)			
Band	Ant3	Ant8	Main Ant. #
B2	2.5	-	3
B4	3.2	3.2	3
B5	-	3.2	8
B13	-	2.9	8
B66	3.2	3.2	3

Remark: The above EUT's information was declared by manufacturer. Please refer to Disclaimer 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	Diego Huang
Temperature (°C)	22.1~23.6
Relative Humidity (%)	50.2~55.7

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. 03CH16-HY (TAF Code: 3786)
Test Engineer	Bill Chang, Gary Guo and Steven Wu
Temperature (°C)	19.1~22.3
Relative Humidity (%)	62.5~68.3
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

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
- ♦ 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..

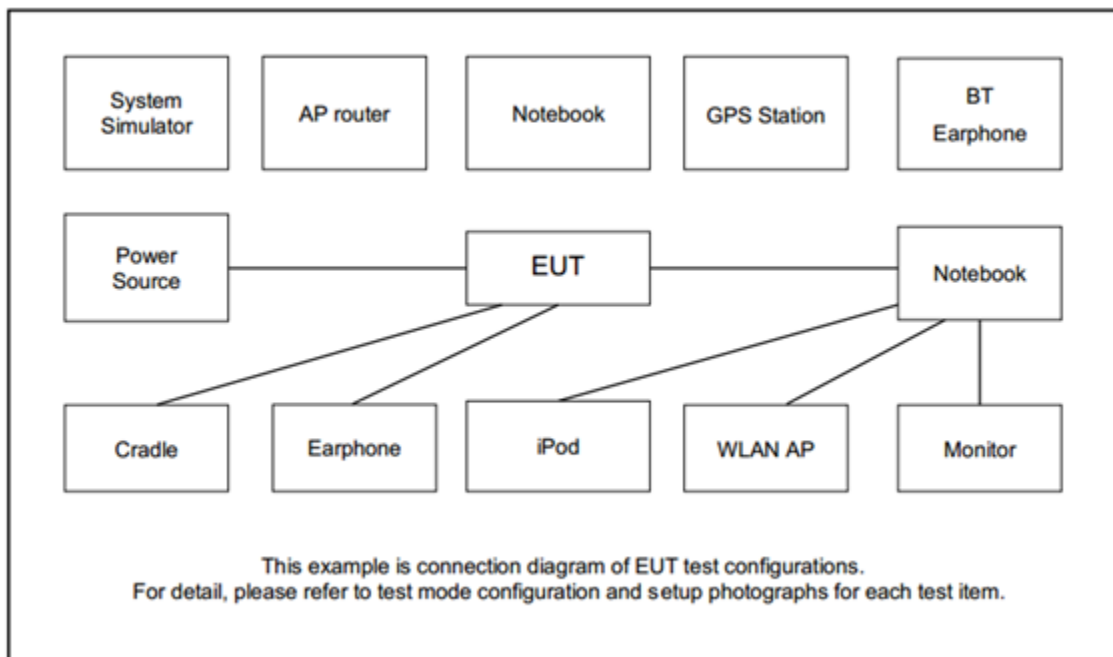
Modulation Type	Modulation
A	QPSK
B	16QAM
C	64QAM
D	256QAM

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C, D	All	1, Half, Full	L, M, H
EIRP	A, B, C, D	All	1, Half, Full	L, M, H
PAR	A, B, C, D	Max	Full	M
Bandwidth	A, B, C, D	All	Full	M
CBE	A, B, C, D	All	1RB Full	L, M, H
CSE	A	All	1RB	L, M, H
Frequency Stability	A	10 MHz or less	Full	M
RSE	A	Max	1RB	L, M, H

Remark:

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. 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.
3. One representative bandwidth is selected to perform PAR and frequency stability.
4. For LTE B4/B66 support Antenna 3 (Main Ant.) and Antenna 8 (CA Ant.);Radiated Spurious Emission is full test. Conducted test items are verified and the worst case is Antenna 3 Therefore, the report only performed Antenna 3 test results.

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	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	Adapter	MIBO	MB-21244274	N/A	N/A	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 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 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



LTE Band 66B Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
5 + 5	PCC	Channel	131997	132398	132599
		Frequency	1712.5	1752.6	1772.7
	SCC	Channel	132045	133346	132647
		Frequency	1717.3	1757.4	1777.5
5 + 10	PCC	Channel	132000	132375	132550
		Frequency	1712.8	1750.3	1767.8
	SCC	Channel	132072	133347	132622
		Frequency	1720.0	1757.5	1775.0
10 + 5	PCC	Channel	132022	132397	132572
		Frequency	1715.0	1752.5	1770.0
	SCC	Channel	132094	133369	132644
		Frequency	1722.2	1759.7	1777.2
5 + 15	PCC	Channel	132002	132353	132504
		Frequency	1713.0	1748.1	1763.2
	SCC	Channel	132095	133346	132597
		Frequency	1722.3	1757.4	1772.5
15 + 5	PCC	Channel	132047	132398	132549
		Frequency	1717.5	1752.6	1767.7
	SCC	Channel	132140	133391	132642
		Frequency	1726.8	1761.9	1777.0
10 + 10	PCC	Channel	132022	132373	135523
		Frequency	1715.0	1750.1	1765.1
	SCC	Channel	132121	133372	132622
		Frequency	1724.9	1760.0	1775.0



LTE Band 66C Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
10 + 15	PCC	Channel	132025	132351	132477
		Frequency	1715.3	1747.9	1760.5
	SCC	Channel	132145	133371	132597
		Frequency	1727.3	1759.9	1772.5
15 + 10	PCC	Channel	132047	132373	132499
		Frequency	1717.5	1750.1	1762.7
	SCC	Channel	132167	132493	132619
		Frequency	1729.5	1762.1	1774.7
10 + 20	PCC	Channel	132027	132328	132428
		Frequency	1715.5	1745.6	1755.6
	SCC	Channel	131171	133372	132572
		Frequency	1729.9	1760.0	1770.0
20 + 10	PCC	Channel	132072	132373	132473
		Frequency	1720.0	1750.1	1760.1
	SCC	Channel	132216	133417	132617
		Frequency	1734.4	1764.5	1774.5
15 + 15	PCC	Channel	132047	132347	132447
		Frequency	1717.5	1747.5	1757.5
	SCC	Channel	132197	133397	132597
		Frequency	1732.5	1762.5	1772.5
15 + 20	PCC	Channel	132050	132325	132401
		Frequency	1717.8	1745.3	1752.9
	SCC	Channel	132221	133396	132572
		Frequency	1734.9	1762.4	1770.0
20 + 15	PCC	Channel	132072	132348	132423
		Frequency	1720.0	1747.6	1755.1
	SCC	Channel	132243	133419	132594
		Frequency	1737.1	1764.7	1772.2
20 + 5	PCC	Channel	132072	132397	132522
		Frequency	1720.0	1752.5	1765.0
	SCC	Channel	132189	133414	132639
		Frequency	1731.7	1764.2	1776.7



LTE Band 66C Channel and Frequency List_CA					
5 + 20	PCC	Channel	132005	132330	132455
		Frequency	1713.3	1745.8	1758.3
	SCC	Channel	132122	132447	132572
		Frequency	1725.0	1757.5	1770.0
20 + 20	PCC	Channel	132072	132323	132374
		Frequency	1720.0	1745.1	1750.2
	SCC	Channel	132270	133421	132572
		Frequency	1739.8	1764.9	1770.0

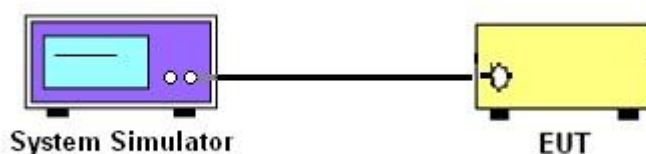
3 Conducted Test Items

3.1 Measuring Instruments

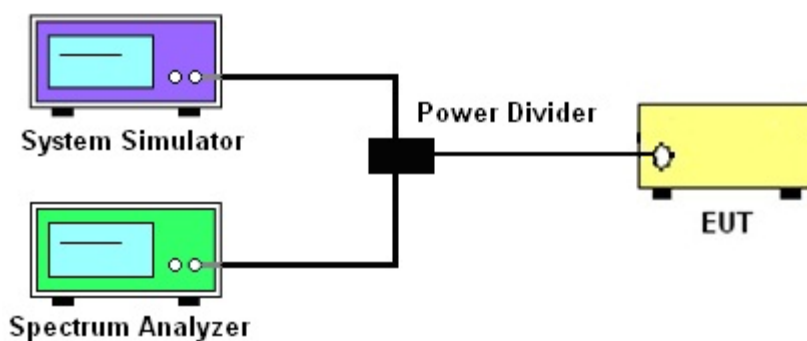
See list of measuring instruments of this test report.

3.1.1 Test Setup

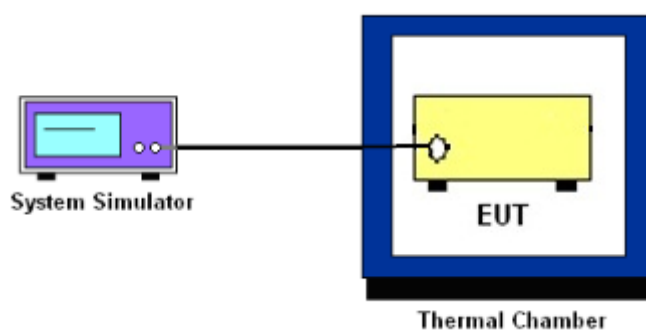
3.1.2 Conducted Output Power



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

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

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4, 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 (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.



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.



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.

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 conducted spurious emission for the whole frequency range was taken.
4. Make the measurement with the spectrum analyzer's RBW = 100 kHz if the authorized frequency band/block is at or below 1 GHz and 1 MHz if the authorized frequency band/block is above 1 GHz, VBW = 3 * RBW.
5. Set spectrum analyzer with RMS detector.
6. Taking the record of maximum spurious emission.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

24.235 , 27.54,

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

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.

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.

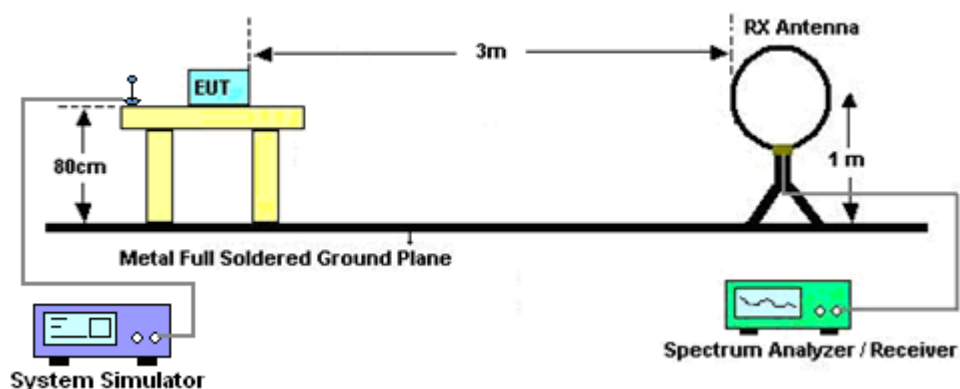
4 Radiated Test Items

4.1 Measuring Instruments

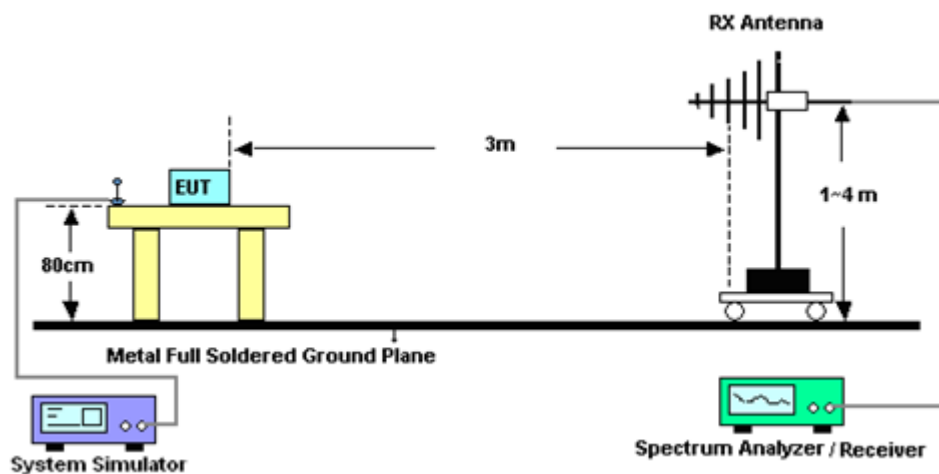
See list of measuring instruments of this test report.

4.1.1 Test Setup

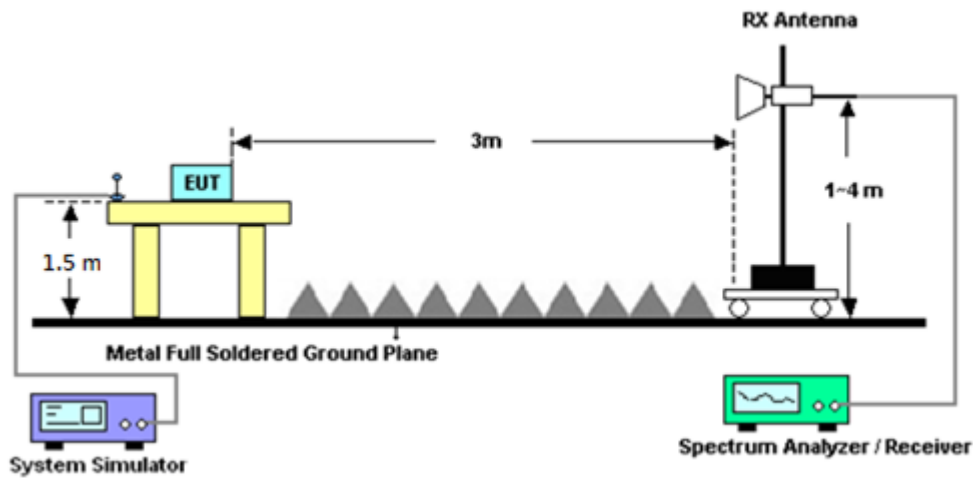
For radiated test below 30MHz



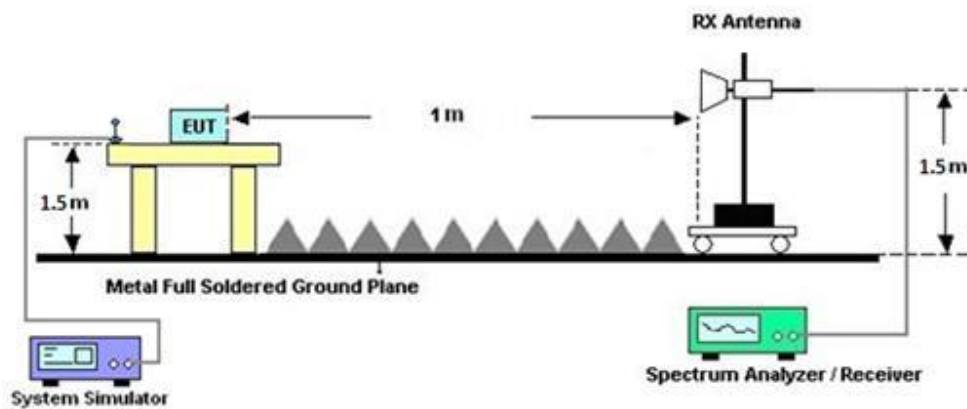
For radiated test from 30MHz to 1GHz



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 C63.26-2015. 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 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 C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

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. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77$$
, where d is the distance at which field strength limit is specified in the rules
7.
$$\text{Field Strength Level (dBm)} = \text{Spectrum Reading (dBm)} + \text{Antenna Factor} + \text{Cable Loss} + \text{Read Level} - \text{Preamp Factor}.$$
8.
$$\text{ERP (dBm)} = \text{EIRP (dBm)} - 2.15$$
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



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	Sep. 12, 2023	Jun. 13, 2024~ Jul. 11, 2024	Sep. 11, 2024	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz~40GHz	Nov. 24, 2023	Jun. 13, 2024~ Jul. 11, 2024	Nov. 23, 2024	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N-06	47020 & 06	30MHz to 1GHz	Oct. 07, 2023	Jun. 13, 2024~ Jul. 11, 2024	Oct. 06, 2024	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Mar. 28, 2024	Jun. 13, 2024~ Jul. 11, 2024	Mar. 27, 2025	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jul. 03, 2023	Jun. 13, 2024~ Jul. 01, 2024	Jul. 02, 2024	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jul. 02, 2024	Jul. 02, 2024~ Jul. 11, 2024	Jul. 01, 2025	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 07, 2023	Jun. 13, 2024~ Jul. 11, 2024	Dec. 06, 2024	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Dec. 25, 2023	Jun. 13, 2024~ Jul. 11, 2024	Dec. 24, 2024	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 27, 2024	Jun. 13, 2024~ Jul. 11, 2024	May 26, 2025	Radiation (03CH16-HY)
Filter	Wainwright	WLK4-1000-1530 -8000-40SS	SN17	1.53GHz Low Pass Filter	Jan. 15, 2024	Jun. 13, 2024~ Jul. 11, 2024	Jan. 14, 2025	Radiation (03CH16-HY)
Filter	Wainwright	WHKX12-900-100 0-15000-60SS	SN11	1GHz High Pass Filter	Mar. 13, 2024	Jun. 13, 2024~ Jul. 11, 2024	Mar. 12, 2025	Radiation (03CH16-HY)
Filter	Wainwright	WHKX12-2700-30 00-18000-60ST	SN3	3GHz High Pass Filter	Jun. 29, 2023	Jun. 13, 2024~ Jun. 27, 2024	Jun. 28, 2024	Radiation (03CH16-HY)
Filter	Wainwright	WHKX12-2700-30 00-18000-60ST	SN3	3GHz High Pass Filter	Jun. 28, 2024	Jun. 28, 2024~ Jul. 11, 2024	Jun. 27, 2025	Radiation (03CH16-HY)
Filter	Wainwright	WHKX8-5872.5-6 750-18000-40ST	SN27	6.75GHz High Pass Filter	Nov. 13, 2023	Jun. 13, 2024~ Jul. 11, 2024	Nov. 12, 2024	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 06, 2024	Jun. 13, 2024~ Jul. 11, 2024	Mar. 05, 2025	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLEX 104	EC-A5-300-57 57,805935/4,8 02434/4	30MHz~18GHz	Aug. 08, 2023	Jun. 13, 2024~ Jul. 11, 2024	Aug. 07, 2024	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,8040 12/2	18-40GHz	Jan. 02, 2024	Jun. 13, 2024~ Jul. 11, 2024	Jan. 01, 2025	Radiation (03CH16-HY)
Software	Audix	E3 230621 V9	RK-002393	N/A	N/A	Jun. 13, 2024~ Jul. 11, 2024	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Jun. 13, 2024~ Jul. 11, 2024	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jun. 13, 2024~ Jul. 11, 2024	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jun. 13, 2024~ Jul. 11, 2024	N/A	Radiation (03CH16-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	6262025353	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 03, 2023	Jun. 11, 2024~ Jul. 08, 2024	Oct. 02, 2024	Conducted (TH03-HY)
Thermal Chamber	ESPEC	SH-641	92013720	-40°C ~90°C	Sep. 04, 2023	Jun. 11, 2024~ Jul. 08, 2024	Sep. 03, 2024	Conducted (TH03-HY)
DC Power Supply	GW Instek	GPP-2323	GES906037	0V~64V ; 0A~6A	Nov. 28, 2023	Jun. 11, 2024~ Jul. 08, 2024	Nov. 27, 2024	Conducted (TH03-HY)
Coupler+10dB+ RfCable	Warison+ WoKen+ E-instrument	20dB 25W SMA Directional Coupler+ 10dB 18GHz_5W+SFL 405_1.5M	#A+#1+#1+#7	1-18GHz	Jan. 02, 2024	Jun. 11, 2024~ Jul. 08, 2024	Jan. 01, 2025	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101905	10Hz~40GHz	Jul. 14, 2023	Jun. 11, 2024~ Jul. 08, 2024	Jul. 13, 2024	Conducted (TH03-HY)
Software	Sporton	LTE Conducted Test Tools	N/A	Conducted Test Item	N/A	Jun. 11, 2024~ Jul. 08, 2024	N/A	Conducted (TH03-HY)
Software	Anritsu	Auto Test System	N/A	Conducted Test Item	N/A	Jun. 11, 2024~ Jul. 08, 2024	N/A	Conducted (TH03-HY)



6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.299 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.55 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.02 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 = 2.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.39	23.46	23.41	25.96	0.3945
20	1	49		23.36	23.37	23.38		
20	1	99		23.32	23.37	23.32		
20	50	0		22.54	22.59	22.57		
20	50	24		22.53	22.48	22.55		
20	50	50		22.52	22.40	22.46		
20	100	0		22.42	22.43	22.39		
20	1	0	16-QAM	22.70	22.71	22.71	25.23	0.3334
20	1	49		22.69	22.68	22.73		
20	1	99		22.62	22.68	22.61		
20	50	0		21.47	21.48	21.56		
20	50	24		21.49	21.41	21.51		
20	50	50		21.51	21.40	21.40		
20	100	0		21.46	21.39	21.46		
20	1	0	64-QAM	21.59	21.62	21.61	24.12	0.2582
20	1	49		21.59	21.60	21.58		
20	1	99		21.53	21.58	21.52		
20	50	0		20.44	20.46	20.57		
20	50	24		20.46	20.45	20.48		
20	50	50		20.50	20.38	20.43		
20	100	0		20.44	20.38	20.45		
20	1	0	256-QAM	18.20	18.32	18.26	20.82	0.1208
20	1	49		18.15	18.24	18.11		
20	1	99		18.10	18.19	18.07		
20	50	0		18.01	18.13	17.98		
20	50	24		18.02	18.11	18.02		
20	50	50		17.89	18.06	18.00		
20	100	0		17.99	18.09	18.02		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 2.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.24	23.22	23.29	25.82	0.3819
15	1	37		23.30	23.27	23.32		
15	1	74		23.23	23.23	23.26		
15	36	0		22.31	22.36	22.34		
15	36	20		22.37	22.30	22.36		
15	36	39		22.38	22.26	22.32		
15	75	0		22.38	22.35	22.31		
15	1	0	16-QAM	22.65	22.59	22.63	25.15	0.3273
15	1	37		22.62	22.56	22.58		
15	1	74		22.56	22.59	22.56		
15	36	0		21.32	21.35	21.36		
15	36	20		21.39	21.33	21.33		
15	36	39		21.37	21.26	21.31		
15	75	0		21.35	21.31	21.32		
15	1	0	64-QAM	21.52	21.50	21.54	24.07	0.2553
15	1	37		21.52	21.49	21.51		
15	1	74		21.57	21.50	21.48		
15	36	0		20.30	20.36	20.41		
15	36	20		20.36	20.37	20.33		
15	36	39		20.38	20.30	20.28		
15	75	0		20.31	20.30	20.27		
15	1	0	256-QAM	18.13	18.21	18.25	20.75	0.1189
15	1	37		18.07	18.12	18.04		
15	1	74		18.04	18.06	18.02		
15	36	0		17.99	18.00	17.90		
15	36	20		18.01	18.01	17.95		
15	36	39		17.86	17.96	17.95		
15	75	0		17.94	18.00	17.95		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 2.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.24	23.29	23.32	25.82	0.3819
10	1	25		23.23	23.26	23.29		
10	1	49		23.25	23.27	23.28		
10	25	0		22.30	22.33	22.39		
10	25	12		22.35	22.32	22.33		
10	25	25		22.37	22.29	22.28		
10	50	0		22.38	22.33	22.36		
10	1	0	16-QAM	22.63	22.62	22.64	25.14	0.3266
10	1	25		22.56	22.58	22.54		
10	1	49		22.60	22.60	22.61		
10	25	0		21.31	21.38	21.38		
10	25	12		21.37	21.32	21.36		
10	25	25		21.34	21.32	21.27		
10	50	0		21.38	21.33	21.33		
10	1	0	64-QAM	21.55	21.51	21.53	24.05	0.2541
10	1	25		21.44	21.47	21.51		
10	1	49		21.51	21.51	21.48		
10	25	0		20.33	20.33	20.40		
10	25	12		20.33	20.30	20.34		
10	25	25		20.32	20.30	20.24		
10	50	0		20.34	20.32	20.33		
10	1	0	256-QAM	18.10	18.30	18.16	20.80	0.1202
10	1	25		18.12	18.15	18.01		
10	1	49		18.03	18.14	17.97		
10	25	0		18.00	18.10	17.91		
10	25	12		17.93	18.04	17.97		
10	25	25		17.84	17.96	17.97		
10	50	0		17.97	18.05	17.92		
Limit	EIRP < 2W			Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451315A

LTE Band 2 Maximum Average Power [dBm] (GT - LC = 2.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.27	23.29	23.32	25.82	0.3819
5	1	12		23.28	23.28	23.30		
5	1	24		23.24	23.31	23.29		
5	12	0		22.41	22.34	22.34		
5	12	7		22.38	22.32	22.36		
5	12	13		22.35	22.34	22.27		
5	25	0		22.33	22.35	22.33		
5	1	0	16-QAM	22.65	22.62	22.59	25.15	0.3273
5	1	12		22.59	22.61	22.57		
5	1	24		22.59	22.63	22.61		
5	12	0		21.35	21.33	21.34		
5	12	7		21.35	21.33	21.35		
5	12	13		21.30	21.29	21.25		
5	25	0		21.32	21.36	21.32		
5	1	0	64-QAM	21.50	21.53	21.54	24.04	0.2535
5	1	12		21.51	21.50	21.52		
5	1	24		21.49	21.54	21.54		
5	12	0		20.41	20.38	20.35		
5	12	7		20.37	20.33	20.38		
5	12	13		20.32	20.31	20.27		
5	25	0		20.30	20.33	20.30		
5	1	0	256-QAM	18.15	18.30	18.18	20.80	0.1202
5	1	12		18.06	18.22	18.03		
5	1	24		18.00	18.10	18.04		
5	12	0		17.96	18.10	17.92		
5	12	7		18.01	18.02	17.98		
5	12	13		17.85	18.01	17.90		
5	25	0		17.96	18.04	17.97		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 2.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.20	23.23	23.25	25.75	0.3758
3	1	8		23.18	23.22	23.24		
3	1	14		23.22	23.25	23.25		
3	8	0		22.33	22.35	22.37		
3	8	4		22.35	22.30	22.34		
3	8	7		22.34	22.31	22.33		
3	15	0		22.37	22.34	22.37		
3	1	0	16-QAM	22.58	22.58	22.58	25.11	0.3243
3	1	8		22.56	22.61	22.54		
3	1	14		22.58	22.59	22.59		
3	8	0		21.40	21.41	21.45		
3	8	4		21.42	21.38	21.40		
3	8	7		21.44	21.39	21.42		
3	15	0		21.39	21.34	21.37		
3	1	0	64-QAM	21.50	21.48	21.48	24.00	0.2512
3	1	8		21.43	21.45	21.46		
3	1	14		21.47	21.48	21.47		
3	8	0		20.35	20.37	20.38		
3	8	4		20.36	20.32	20.34		
3	8	7		20.39	20.35	20.38		
3	15	0		20.36	20.31	20.35		
3	1	0	256-QAM	18.15	18.22	18.18	20.72	0.1180
3	1	8		18.10	18.19	18.06		
3	1	14		18.08	18.14	18.06		
3	8	0		17.92	18.11	17.90		
3	8	4		17.95	18.07	17.94		
3	8	7		17.83	18.00	17.93		
3	15	0		17.96	18.02	17.95		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = 2.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.23	23.28	23.24	25.78	0.3784
1.4	1	3		23.22	23.28	23.26		
1.4	1	5		23.19	23.26	23.25		
1.4	3	0		23.26	23.27	23.25		
1.4	3	1		23.25	23.28	23.26		
1.4	3	3		23.25	23.25	23.27		
1.4	6	0		22.35	22.39	22.34		
1.4	1	0	16-QAM	22.58	22.58	22.54	25.12	0.3251
1.4	1	3		22.58	22.62	22.54		
1.4	1	5		22.58	22.57	22.52		
1.4	3	0		22.36	22.40	22.35		
1.4	3	1		22.34	22.39	22.35		
1.4	3	3		22.35	22.35	22.34		
1.4	6	0		21.40	21.43	21.41		
1.4	1	0	64-QAM	21.52	21.52	21.47	24.02	0.2523
1.4	1	3		21.48	21.50	21.44		
1.4	1	5		21.46	21.50	21.46		
1.4	3	0		21.44	21.45	21.41		
1.4	3	1		21.44	21.45	21.42		
1.4	3	3		21.43	21.43	21.43		
1.4	6	0		20.31	20.33	20.27		
1.4	1	0	256-QAM	18.11	18.30	18.23	20.80	0.1202
1.4	1	3		18.12	18.19	18.01		
1.4	1	5		18.01	18.13	17.99		
1.4	3	0		17.98	18.11	17.96		
1.4	3	1		17.93	18.08	17.98		
1.4	3	3		17.83	17.99	17.97		
1.4	6	0		17.91	17.99	17.94		
Limit	EIRP < 2W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 3.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.22	23.35	23.33	26.55	0.4519
20	1	49		23.20	23.27	23.32		
20	1	99		23.19	23.22	23.26		
20	50	0		22.61	22.62	22.40		
20	50	24		22.41	22.39	22.39		
20	50	50		22.39	22.60	22.15		
20	100	0		22.50	22.52	22.18		
20	1	0	16-QAM	22.53	22.65	22.61	25.85	0.3846
20	1	49		22.56	22.64	22.65		
20	1	99		22.59	22.56	22.64		
20	50	0		21.61	21.25	21.25		
20	50	24		21.39	21.39	21.39		
20	50	50		21.37	21.63	21.16		
20	100	0		21.49	21.45	21.17		
20	1	0	64-QAM	21.43	21.55	21.53	24.75	0.2985
20	1	49		21.42	21.52	21.54		
20	1	99		21.48	21.45	21.53		
20	50	0		20.59	20.22	20.21		
20	50	24		20.36	20.35	20.36		
20	50	50		20.39	20.63	20.15		
20	100	0		20.47	20.44	20.15		
20	1	0	256-QAM	18.05	18.23	18.12	21.62	0.1452
20	1	49		18.01	18.17	18.15		
20	1	99		18.03	18.16	18.10		
20	50	0		17.79	17.95	17.84		
20	50	24		17.85	18.01	17.98		
20	50	50		18.26	18.42	18.38		
20	100	0		17.99	18.21	18.13		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 3.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.06	23.15	23.25	26.45	0.4416
15	1	37		23.09	23.17	23.20		
15	1	74		23.14	23.16	23.23		
15	36	0		22.31	22.19	22.35		
15	36	20		22.17	22.21	22.27		
15	36	39		22.18	22.30	22.13		
15	75	0		22.24	22.27	22.27		
15	1	0	16-QAM	22.45	22.50	22.61	25.81	0.3811
15	1	37		22.45	22.53	22.56		
15	1	74		22.50	22.50	22.58		
15	36	0		21.31	21.21	21.33		
15	36	20		21.18	21.20	21.28		
15	36	39		21.15	21.34	21.14		
15	75	0		21.28	21.23	21.28		
15	1	0	64-QAM	21.32	21.41	21.47	24.67	0.2931
15	1	37		21.32	21.43	21.44		
15	1	74		21.39	21.39	21.47		
15	36	0		20.32	20.19	20.36		
15	36	20		20.18	20.23	20.28		
15	36	39		20.15	20.35	20.15		
15	75	0		20.22	20.25	20.24		
15	1	0	256-QAM	17.99	18.17	18.09	21.56	0.1432
15	1	37		18.00	18.13	18.09		
15	1	74		17.97	18.13	18.03		
15	36	0		17.71	17.86	17.81		
15	36	20		17.75	17.98	17.89		
15	36	39		18.24	18.36	18.35		
15	75	0		17.95	18.15	18.11		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 3.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.14	23.29	23.33	26.53	0.4498
10	1	25		23.13	23.20	23.22		
10	1	49		23.16	23.18	23.32		
10	25	0		22.31	22.19	22.46		
10	25	12		22.20	22.23	22.34		
10	25	25		22.05	22.36	22.18		
10	50	0		22.23	22.27	22.37		
10	1	0	16-QAM	22.42	22.60	22.61	25.82	0.3819
10	1	25		22.50	22.55	22.55		
10	1	49		22.49	22.48	22.62		
10	25	0		21.32	21.20	21.44		
10	25	12		21.22	21.25	21.34		
10	25	25		21.05	21.36	21.18		
10	50	0		21.24	21.24	21.37		
10	1	0	64-QAM	21.35	21.46	21.47	24.69	0.2944
10	1	25		21.34	21.42	21.42		
10	1	49		21.38	21.33	21.49		
10	25	0		20.30	20.17	20.43		
10	25	12		20.20	20.26	20.33		
10	25	25		20.04	20.35	20.16		
10	50	0		20.22	20.24	20.32		
10	1	0	256-QAM	17.99	18.20	18.09	21.52	0.1419
10	1	25		17.94	18.09	18.09		
10	1	49		17.93	18.13	18.02		
10	25	0		17.72	17.88	17.77		
10	25	12		17.75	17.91	17.95		
10	25	25		18.24	18.32	18.29		
10	50	0		17.97	18.15	18.07		
Limit	EIRP < 1W			Result			Pass	



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LTE Band 4 Maximum Average Power [dBm] (GT - LC = 3.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.10	23.28	23.30	26.53	0.4498
5	1	12		23.09	23.23	23.26		
5	1	24		23.15	23.20	23.33		
5	12	0		22.26	22.25	22.40		
5	12	7		22.15	22.25	22.34		
5	12	13		22.10	22.26	22.30		
5	25	0		22.17	22.22	22.36		
5	1	0	16-QAM	22.43	22.59	22.61	25.87	0.3864
5	1	12		22.46	22.56	22.61		
5	1	24		22.48	22.50	22.67		
5	12	0		21.24	21.24	21.40		
5	12	7		21.14	21.23	21.31		
5	12	13		21.07	21.23	21.27		
5	25	0		21.16	21.23	21.34		
5	1	0	64-QAM	21.33	21.50	21.48	24.74	0.2979
5	1	12		21.34	21.45	21.48		
5	1	24		21.35	21.39	21.54		
5	12	0		20.26	20.22	20.40		
5	12	7		20.17	20.27	20.35		
5	12	13		20.11	20.24	20.28		
5	25	0		20.14	20.22	20.34		
5	1	0	256-QAM	17.96	18.13	18.11	21.57	0.1435
5	1	12		17.97	18.13	18.07		
5	1	24		17.95	18.14	18.09		
5	12	0		17.69	17.85	17.79		
5	12	7		17.79	17.99	17.94		
5	12	13		18.19	18.32	18.37		
5	25	0		17.96	18.18	18.11		
Limit	EIRP < 1W			Result			Pass	



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LTE Band 4 Maximum Average Power [dBm] (GT - LC = 3.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.02	23.19	23.19	26.46	0.4426
3	1	8		23.01	23.16	23.20		
3	1	14		23.10	23.18	23.26		
3	8	0		22.15	22.28	22.35		
3	8	4		22.13	22.24	22.34		
3	8	7		22.14	22.26	22.35		
3	15	0		22.18	22.25	22.34		
3	1	0	16-QAM	22.40	22.55	22.58	25.81	0.3811
3	1	8		22.43	22.52	22.59		
3	1	14		22.42	22.51	22.61		
3	8	0		21.23	21.35	21.42		
3	8	4		21.21	21.31	21.42		
3	8	7		21.22	21.34	21.44		
3	15	0		21.18	21.28	21.36		
3	1	0	64-QAM	21.28	21.41	21.42	24.70	0.2951
3	1	8		21.29	21.37	21.46		
3	1	14		21.33	21.41	21.50		
3	8	0		20.15	20.30	20.37		
3	8	4		20.14	20.27	20.36		
3	8	7		20.17	20.30	20.39		
3	15	0		20.15	20.26	20.33		
3	1	0	256-QAM	17.99	18.19	18.11	21.61	0.1449
3	1	8		17.92	18.14	18.08		
3	1	14		17.98	18.06	18.02		
3	8	0		17.77	17.86	17.80		
3	8	4		17.81	17.98	17.93		
3	8	7		18.16	18.41	18.35		
3	15	0		17.95	18.11	18.04		
Limit	EIRP < 1W			Result			Pass	



LTE Band 4 Maximum Average Power [dBm] (GT - LC = 3.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.00	23.16	23.21	26.50	0.4467
1.4	1	3		23.02	23.18	23.27		
1.4	1	5		23.04	23.17	23.25		
1.4	3	0		23.04	23.21	23.30		
1.4	3	1		23.05	23.20	23.29		
1.4	3	3		23.03	23.19	23.30		
1.4	6	0		22.14	22.31	22.40		
1.4	1	0	16-QAM	22.36	22.51	22.61	25.85	0.3846
1.4	1	3		22.39	22.54	22.65		
1.4	1	5		22.40	22.50	22.62		
1.4	3	0		22.15	22.32	22.42		
1.4	3	1		22.14	22.31	22.40		
1.4	3	3		22.16	22.29	22.39		
1.4	6	0		21.20	21.35	21.47		
1.4	1	0	64-QAM	21.30	21.46	21.52	24.72	0.2965
1.4	1	3		21.28	21.40	21.50		
1.4	1	5		21.29	21.40	21.51		
1.4	3	0		21.22	21.37	21.48		
1.4	3	1		21.22	21.40	21.50		
1.4	3	3		21.21	21.37	21.49		
1.4	6	0		20.10	20.27	20.34		
1.4	1	0	256-QAM	17.98	18.20	18.05	21.61	0.1449
1.4	1	3		17.96	18.12	18.13		
1.4	1	5		17.95	18.08	18.06		
1.4	3	0		17.74	17.93	17.79		
1.4	3	1		17.83	17.99	17.95		
1.4	3	3		18.17	18.41	18.37		
1.4	6	0		17.92	18.17	18.09		
Limit	EIRP < 1W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = 3.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	24.19	24.23	24.11	25.28	0.3373
10	1	25		24.17	24.15	24.06		
10	1	49		24.14	24.11	24.09		
10	25	0		23.21	23.22	23.12		
10	25	12		23.19	23.10	23.03		
10	25	25		23.09	23.20	23.06		
10	50	0		23.16	23.17	23.13		
10	1	0	16-QAM	23.38	23.39	23.28	24.51	0.2825
10	1	25		23.46	23.38	23.25		
10	1	49		23.44	23.32	23.28		
10	25	0		22.27	22.14	22.12		
10	25	12		22.22	22.10	22.02		
10	25	25		22.08	22.22	22.07		
10	50	0		22.20	22.16	22.11		
10	1	0	64-QAM	22.25	22.25	22.18	23.39	0.2183
10	1	25		22.31	22.24	22.15		
10	1	49		22.34	22.21	22.15		
10	25	0		21.32	21.19	21.06		
10	25	12		21.28	21.17	21.07		
10	25	25		21.12	21.17	21.09		
10	50	0		21.25	21.23	21.06		
10	1	0	256-QAM	19.63	19.64	19.56	20.69	0.1172
10	1	25		19.58	19.51	19.46		
10	1	49		19.45	19.47	19.36		
10	25	0		19.43	19.46	19.34		
10	25	12		19.36	19.47	19.30		
10	25	25		19.36	19.48	19.26		
10	50	0		19.43	19.63	19.34		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = 3.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	24.17	24.22	24.08	25.27	0.3365
5	1	12		24.21	24.13	24.09		
5	1	24		24.16	24.11	24.10		
5	12	0		23.16	23.14	23.09		
5	12	7		23.16	23.10	23.01		
5	12	13		23.11	23.08	23.04		
5	25	0		23.13	23.11	23.03		
5	1	0	16-QAM	23.36	23.38	23.27	24.48	0.2805
5	1	12		23.37	23.34	23.28		
5	1	24		23.43	23.30	23.26		
5	12	0		22.13	22.10	22.07		
5	12	7		22.13	22.07	22.00		
5	12	13		22.06	22.08	22.03		
5	25	0		22.13	22.10	22.07		
5	1	0	64-QAM	22.24	22.29	22.19	23.38	0.2178
5	1	12		22.29	22.26	22.20		
5	1	24		22.33	22.19	22.15		
5	12	0		21.23	21.10	21.10		
5	12	7		21.23	21.10	21.12		
5	12	13		21.17	21.16	21.06		
5	25	0		21.21	21.15	21.15		
5	1	0	256-QAM	19.57	19.62	19.55	20.67	0.1167
5	1	12		19.50	19.50	19.37		
5	1	24		19.38	19.38	19.26		
5	12	0		19.33	19.42	19.30		
5	12	7		19.30	19.39	19.24		
5	12	13		19.29	19.44	19.18		
5	25	0		19.37	19.61	19.33		
Limit	ERP < 7W			Result			Pass	



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LTE Band 5 Maximum Average Power [dBm] (GT - LC = 3.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	24.12	24.12	24.03	25.26	0.3357
3	1	8		24.15	24.07	24.04		
3	1	14		24.21	24.06	24.05		
3	8	0		23.12	23.09	23.03		
3	8	4		23.08	23.07	23.01		
3	8	7		23.15	23.08	23.01		
3	15	0		23.13	23.10	23.02		
3	1	0	16-QAM	23.31	23.32	23.25	24.42	0.2767
3	1	8		23.33	23.29	23.22		
3	1	14		23.37	23.26	23.20		
3	8	0		22.19	22.14	22.08		
3	8	4		22.14	22.13	22.06		
3	8	7		22.20	22.14	22.08		
3	15	0		22.15	22.12	22.06		
3	1	0	64-QAM	22.22	22.22	22.13	23.31	0.2143
3	1	8		22.26	22.20	22.11		
3	1	14		22.26	22.17	22.11		
3	8	0		21.23	21.17	21.02		
3	8	4		21.18	21.08	21.02		
3	8	7		21.28	21.10	21.04		
3	15	0		21.20	21.07	21.00		
3	1	0	256-QAM	19.58	19.58	19.51	20.63	0.1156
3	1	8		19.57	19.48	19.37		
3	1	14		19.38	19.46	19.28		
3	8	0		19.36	19.41	19.33		
3	8	4		19.26	19.44	19.29		
3	8	7		19.34	19.38	19.20		
3	15	0		19.39	19.53	19.27		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = 3.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	24.08	24.08	24.02	25.21	0.3319
1.4	1	3		24.13	24.08	24.04		
1.4	1	5		24.11	24.05	24.00		
1.4	3	0		24.11	24.09	24.05		
1.4	3	1		24.12	24.09	24.05		
1.4	3	3		24.16	24.07	24.07		
1.4	6	0		23.10	23.09	23.04		
1.4	1	0	16-QAM	23.30	23.34	23.23	24.43	0.2773
1.4	1	3		23.38	23.32	23.23		
1.4	1	5		23.33	23.29	23.18		
1.4	3	0		23.14	23.13	23.07		
1.4	3	1		23.12	23.13	23.08		
1.4	3	3		23.15	23.09	23.06		
1.4	6	0		22.14	22.14	22.08		
1.4	1	0	64-QAM	22.20	22.21	22.17	23.28	0.2128
1.4	1	3		22.22	22.22	22.16		
1.4	1	5		22.23	22.20	22.10		
1.4	3	0		22.19	22.18	22.12		
1.4	3	1		22.17	22.18	22.12		
1.4	3	3		22.21	22.15	22.11		
1.4	6	0		21.15	21.04	20.97		
1.4	1	0	256-QAM	19.58	19.58	19.55	20.65	0.1161
1.4	1	3		19.57	19.45	19.38		
1.4	1	5		19.43	19.42	19.34		
1.4	3	0		19.35	19.44	19.33		
1.4	3	1		19.28	19.37	19.29		
1.4	3	3		19.33	19.46	19.25		
1.4	6	0		19.35	19.60	19.28		
Limit	ERP < 7W			Result			Pass	



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LTE Band 13 Maximum Average Power [dBm] (GT - LC = 2.9 dB)											
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)			
10	1	0	QPSK	-	23.65	-	24.40	0.2754			
10	1	25			23.58						
10	1	49			23.60						
10	25	0			22.54						
10	25	12			22.52						
10	25	25			22.51						
10	50	0			22.51						
10	1	0	16-QAM		22.79		-	23.55	0.2265		
10	1	25			22.79						
10	1	49			22.80						
10	25	0			21.53						
10	25	12			21.61						
10	25	25			21.62						
10	50	0			21.59						
10	1	0	64-QAM		21.76			-	22.54	0.1795	
10	1	25			21.76						
10	1	49			21.79						
10	25	0			20.51						
10	25	12			20.63						
10	25	25			20.60						
10	50	0			20.56						
10	1	0	256-QAM		18.98				-	19.80	0.0955
10	1	25			18.88						
10	1	49			18.82						
10	25	0			18.87						
10	25	12			18.82						
10	25	25			18.83						
10	50	0			19.05						
Limit	ERP < 3W			Result						Pass	



LTE Band 13 Maximum Average Power [dBm] (GT - LC = 2.9 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	23.64	23.57	23.58	24.39	0.2748
5	1	12		23.59	23.57	23.53		
5	1	24		23.61	23.53	23.61		
5	12	0		22.43	22.46	22.43		
5	12	7		22.54	22.51	22.49		
5	12	13		22.54	22.52	22.47		
5	25	0		22.53	22.51	22.46		
5	1	0	16-QAM	22.79	22.80	22.78	23.59	0.2286
5	1	12		22.81	22.79	22.73		
5	1	24		22.84	22.75	22.81		
5	12	0		21.52	21.55	21.51		
5	12	7		21.63	21.58	21.56		
5	12	13		21.58	21.58	21.52		
5	25	0		21.63	21.61	21.55		
5	1	0	64-QAM	21.81	21.77	21.78	22.56	0.1803
5	1	12		21.78	21.78	21.72		
5	1	24		21.79	21.72	21.78		
5	12	0		20.55	20.54	20.50		
5	12	7		20.63	20.64	20.59		
5	12	13		20.61	20.62	20.58		
5	25	0		20.60	20.61	20.52		
5	1	0	256-QAM	18.94	18.89	18.86	19.79	0.0953
5	1	12		18.82	18.80	18.76		
5	1	24		18.72	18.75	18.72		
5	12	0		18.80	18.78	18.81		
5	12	7		18.80	18.72	18.75		
5	12	13		18.80	18.72	18.69		
5	25	0		19.04	18.93	18.92		
Limit	ERP < 3W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 3.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.37	23.42	23.41	26.62	0.4592
20	1	49		23.34	23.35	23.38		
20	1	99		23.27	23.31	23.37		
20	50	0		22.48	22.52	22.47		
20	50	24		22.22	22.29	22.31		
20	50	50		22.26	22.20	22.19		
20	100	0		22.31	22.36	22.33		
20	1	0	16-QAM	22.40	22.67	22.75	25.95	0.3936
20	1	49		22.50	22.71	22.73		
20	1	99		22.44	22.67	22.67		
20	50	0		21.49	21.28	21.29		
20	50	24		21.24	21.43	21.49		
20	50	50		21.24	21.20	21.20		
20	100	0		21.37	21.22	21.20		
20	1	0	64-QAM	21.25	21.52	21.63	24.85	0.3055
20	1	49		21.38	21.58	21.65		
20	1	99		21.28	21.57	21.59		
20	50	0		20.47	20.25	20.29		
20	50	24		20.22	20.41	20.50		
20	50	50		20.26	20.18	20.17		
20	100	0		20.33	20.23	20.22		
20	1	0	256-QAM	18.05	18.13	18.08	21.54	0.1426
20	1	49		18.09	18.22	18.17		
20	1	99		18.26	18.34	18.24		
20	50	0		17.84	17.90	17.80		
20	50	24		17.97	18.06	17.94		
20	50	50		17.75	17.84	17.75		
20	100	0		17.74	17.89	17.76		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 3.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.05	23.26	23.27	26.52	0.4487
15	1	37		23.21	23.26	23.32		
15	1	74		23.15	23.16	23.23		
15	36	0		22.33	22.30	22.28		
15	36	20		22.23	22.32	22.36		
15	36	39		22.20	22.16	22.18		
15	75	0		22.32	22.24	22.26		
15	1	0	16-QAM	22.48	22.60	22.64	25.84	0.3837
15	1	37		22.55	22.55	22.63		
15	1	74		22.53	22.56	22.57		
15	36	0		21.34	21.31	21.30		
15	36	20		21.25	21.34	21.35		
15	36	39		21.23	21.21	21.18		
15	75	0		21.34	21.25	21.24		
15	1	0	64-QAM	21.35	21.50	21.54	24.75	0.2985
15	1	37		21.46	21.49	21.55		
15	1	74		21.42	21.43	21.49		
15	36	0		20.36	20.31	20.31		
15	36	20		20.24	20.34	20.35		
15	36	39		20.18	20.16	20.18		
15	75	0		20.28	20.21	20.21		
15	1	0	256-QAM	18.02	18.12	18.01	21.44	0.1393
15	1	37		18.04	18.19	18.12		
15	1	74		18.18	18.24	18.21		
15	36	0		17.82	17.81	17.70		
15	36	20		17.89	17.99	17.85		
15	36	39		17.72	17.77	17.69		
15	75	0		17.67	17.82	17.66		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 3.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.12	23.29	23.33	26.53	0.4498
10	1	25		23.15	23.25	23.26		
10	1	49		23.21	23.20	23.26		
10	25	0		22.39	22.34	22.57		
10	25	12		22.24	22.36	22.41		
10	25	25		22.12	22.19	22.18		
10	50	0		22.31	22.29	22.42		
10	1	0	16-QAM	22.48	22.60	22.63	25.83	0.3828
10	1	25		22.52	22.56	22.59		
10	1	49		22.57	22.58	22.62		
10	25	0		21.39	21.33	21.56		
10	25	12		21.25	21.34	21.41		
10	25	25		21.10	21.18	21.18		
10	50	0		21.31	21.27	21.43		
10	1	0	64-QAM	21.35	21.47	21.53	24.73	0.2972
10	1	25		21.38	21.43	21.48		
10	1	49		21.45	21.49	21.51		
10	25	0		20.36	20.32	20.54		
10	25	12		20.21	20.32	20.39		
10	25	25		20.09	20.19	20.17		
10	50	0		20.29	20.26	20.40		
10	1	0	256-QAM	17.98	18.12	18.04	21.52	0.1419
10	1	25		18.01	18.17	18.12		
10	1	49		18.17	18.32	18.16		
10	25	0		17.83	17.86	17.78		
10	25	12		17.95	18.01	17.88		
10	25	25		17.71	17.83	17.68		
10	50	0		17.67	17.85	17.70		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 3.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.09	23.28	23.29	26.50	0.4467
5	1	12		23.14	23.25	23.28		
5	1	24		23.16	23.24	23.30		
5	12	0		22.29	22.34	22.50		
5	12	7		22.22	22.30	22.38		
5	12	13		22.14	22.23	22.32		
5	25	0		22.23	22.28	22.40		
5	1	0	16-QAM	22.47	22.60	22.63	25.83	0.3828
5	1	12		22.49	22.56	22.62		
5	1	24		22.54	22.59	22.62		
5	12	0		21.24	21.34	21.50		
5	12	7		21.20	21.27	21.36		
5	12	13		21.11	21.22	21.29		
5	25	0		21.22	21.29	21.40		
5	1	0	64-QAM	21.35	21.49	21.53	24.74	0.2979
5	1	12		21.37	21.47	21.50		
5	1	24		21.41	21.47	21.54		
5	12	0		20.29	20.36	20.53		
5	12	7		20.23	20.31	20.39		
5	12	13		20.11	20.22	20.32		
5	25	0		20.20	20.26	20.39		
5	1	0	256-QAM	18.00	18.08	18.04	21.47	0.1403
5	1	12		18.00	18.19	18.07		
5	1	24		18.24	18.27	18.18		
5	12	0		17.79	17.86	17.79		
5	12	7		17.92	17.96	17.84		
5	12	13		17.72	17.75	17.70		
5	25	0		17.67	17.79	17.73		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 3.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	23.07	23.23	23.26	26.46	0.4426
3	1	8		23.07	23.20	23.26		
3	1	14		23.09	23.21	23.26		
3	8	0		22.22	22.36	22.39		
3	8	4		22.16	22.28	22.37		
3	8	7		22.21	22.28	22.37		
3	15	0		22.21	22.31	22.40		
3	1	0	16-QAM	22.47	22.57	22.63	25.83	0.3828
3	1	8		22.47	22.54	22.60		
3	1	14		22.48	22.57	22.60		
3	8	0		21.28	21.42	21.45		
3	8	4		21.24	21.36	21.43		
3	8	7		21.30	21.37	21.46		
3	15	0		21.24	21.33	21.42		
3	1	0	64-QAM	21.33	21.46	21.50	24.72	0.2965
3	1	8		21.35	21.42	21.51		
3	1	14		21.36	21.48	21.52		
3	8	0		20.23	20.37	20.41		
3	8	4		20.17	20.31	20.39		
3	8	7		20.24	20.32	20.40		
3	15	0		20.20	20.30	20.39		
3	1	0	256-QAM	17.96	18.08	18.04	21.46	0.1400
3	1	8		18.03	18.16	18.12		
3	1	14		18.17	18.26	18.14		
3	8	0		17.76	17.82	17.76		
3	8	4		17.88	18.03	17.89		
3	8	7		17.65	17.81	17.72		
3	15	0		17.68	17.88	17.69		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66 Maximum Average Power [dBm] (GT - LC = 3.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	23.08	23.21	23.29	26.54	0.4508
1.4	1	3		23.08	23.22	23.30		
1.4	1	5		23.07	23.21	23.29		
1.4	3	0		23.10	23.24	23.34		
1.4	3	1		23.10	23.25	23.33		
1.4	3	3		23.11	23.22	23.33		
1.4	6	0		22.21	22.37	22.41		
1.4	1	0	16-QAM	22.44	22.56	22.64	25.84	0.3837
1.4	1	3		22.44	22.56	22.62		
1.4	1	5		22.42	22.54	22.63		
1.4	3	0		22.22	22.36	22.43		
1.4	3	1		22.21	22.36	22.44		
1.4	3	3		22.21	22.33	22.43		
1.4	6	0		21.27	21.41	21.48		
1.4	1	0	64-QAM	21.32	21.49	21.56	24.76	0.2992
1.4	1	3		21.32	21.46	21.55		
1.4	1	5		21.33	21.45	21.51		
1.4	3	0		21.30	21.44	21.50		
1.4	3	1		21.28	21.45	21.51		
1.4	3	3		21.29	21.39	21.50		
1.4	6	0		20.14	20.30	20.37		
1.4	1	0	256-QAM	17.95	18.05	17.98	21.50	0.1413
1.4	1	3		18.06	18.19	18.10		
1.4	1	5		18.21	18.30	18.15		
1.4	3	0		17.79	17.83	17.72		
1.4	3	1		17.88	18.02	17.85		
1.4	3	3		17.71	17.78	17.70		
1.4	6	0		17.67	17.85	17.67		
Limit	EIRP < 1W			Result			Pass	



LTE Band 66B_CA Maximum Average Power [dBm] (GT - LC = 3.2 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
10+10	50	0	50	0	QPSK	21.13	21.25	21.04	26.01	0.3990
10+10	1	0	1	49		14.49	14.52	14.57		
10+10	1	49	1	0		22.68	22.72	22.81		
10+10	50	0	50	0	16-QAM	20.14	20.24	20.03	25.26	0.3357
10+10	1	0	1	49		14.50	14.52	14.68		
10+10	1	49	1	0		21.86	21.95	22.06		
10+10	50	0	50	0	64-QAM	20.17	20.25	20.05	23.45	0.2213
10+10	1	0	1	49		14.55	14.51	14.61		
10+10	1	49	1	0		19.83	19.85	19.96		
10+10	50	0	50	0	256-QAM	18.23	18.27	18.11	21.47	0.1403
10+10	1	0	1	49		14.44	14.34	14.65		
10+10	1	49	1	0		17.71	17.79	17.92		
15+5	75	0	25	0	QPSK	21.11	21.16	21.08	26.16	0.4130
15+5	1	0	1	24		14.57	14.55	14.72		
15+5	1	74	1	0		22.85	22.92	22.96		
15+5	75	0	25	0	16-QAM	20.12	20.18	20.07	25.41	0.3475
15+5	1	0	1	24		14.65	14.74	14.75		
15+5	1	74	1	0		22.09	22.09	22.21		
15+5	75	0	25	0	64-QAM	20.12	20.16	20.09	23.36	0.2168
15+5	1	0	1	24		6.95	14.65	14.75		
15+5	1	74	1	0		20.05	20.06	20.16		
15+5	75	0	25	0	256-QAM	18.10	18.16	18.03	21.36	0.1368
15+5	1	0	1	24		14.61	14.72	14.61		
15+5	1	74	1	0		18.00	18.05	18.06		
5+15	25	0	75	0	QPSK	21.29	21.37	20.97	26.17	0.4140
5+15	1	0	1	74		14.55	14.64	14.68		
5+15	1	24	1	0		22.85	22.88	22.97		
5+15	25	0	75	0	16-QAM	20.30	20.37	19.95	25.43	0.3491
5+15	1	0	1	74		14.65	14.73	14.81		
5+15	1	24	1	0		22.11	22.10	22.23		
5+15	25	0	75	0	64-QAM	20.30	20.35	19.97	23.55	0.2265
5+15	1	0	1	74		14.60	14.72	14.68		
5+15	1	24	1	0		19.97	18.56	20.13		
5+15	25	0	75	0	256-QAM	18.27	18.35	17.96	21.55	0.1429
5+15	1	0	1	74		14.61	14.57	14.60		
5+15	1	24	1	0		17.93	8.63	18.08		
Limit	EIRP < 1W					Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451315A

LTE Band 66B_CA Maximum Average Power [dBm] (GT - LC = 3.2 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
10+5	50	0	25	0	QPSK	21.01	21.09	21.05	25.98	0.3963
10+5	1	0	1	24		14.30	14.36	14.47		
10+5	1	49	1	0		22.61	22.69	22.78		
10+5	50	0	25	0	16-QAM	20.03	20.09	20.05	25.20	0.3311
10+5	1	0	1	24		14.32	14.45	14.55		
10+5	1	49	1	0		21.80	21.88	22.00		
10+5	50	0	25	0	64-QAM	20.03	20.07	20.05	23.27	0.2123
10+5	1	0	1	24		14.33	14.39	14.47		
10+5	1	49	1	0		19.82	19.83	19.93		
10+5	50	0	25	0	256-QAM	17.99	18.05	18.01	21.25	0.1334
10+5	1	0	1	24		14.24	14.39	14.49		
10+5	1	49	1	0		17.74	17.76	17.80		
5+10	25	0	50	0	QPSK	21.08	21.18	21.02	25.95	0.3936
5+10	1	0	1	49		14.30	14.35	14.48		
5+10	1	24	1	0		22.59	22.65	22.75		
5+10	25	0	50	0	16-QAM	20.07	20.17	20.02	25.19	0.3304
5+10	1	0	1	49		14.37	14.48	14.52		
5+10	1	24	1	0		21.88	21.93	21.99		
5+10	25	0	50	0	64-QAM	20.09	20.19	20.03	23.39	0.2183
5+10	1	0	1	49		14.34	14.44	14.54		
5+10	1	24	1	0		19.79	19.85	19.91		
5+10	25	0	50	0	256-QAM	18.03	18.14	17.99	21.34	0.1361
5+10	1	0	1	49		14.29	14.42	14.47		
5+10	1	24	1	0		17.71	17.69	17.86		
5+5	25	0	25	0	QPSK	21.04	21.11	21.08	26.02	0.3999
5+5	1	0	1	24		14.88	15.00	15.06		
5+5	1	24	1	0		22.64	22.66	22.82		
5+5	25	0	25	0	16-QAM	20.05	20.14	20.10	25.27	0.3365
5+5	1	0	1	24		15.03	15.11	15.23		
5+5	1	24	1	0		21.90	21.90	22.07		
5+5	25	0	25	0	64-QAM	20.02	20.10	20.09	23.30	0.2138
5+5	1	0	1	24		14.95	15.01	15.09		
5+5	1	24	1	0		19.80	19.83	19.95		
5+5	25	0	25	0	256-QAM	17.99	18.10	18.10	21.30	0.1349
5+5	1	0	1	24		14.97	14.98	15.06		
5+5	1	24	1	0		17.70	17.71	17.89		
Limit	EIRP < 1W					Result			Pass	



FCC RADIO TEST REPORT

Report No. : FG451315A

LTE Band 66C_CA Maximum Average Power [dBm] (GT - LC = 3.2 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+20	100	0	100	0	QPSK	21.33	21.13	21.33	25.90	0.3890
20+20	1	0	1	99		14.41	14.54	14.42		
20+20	1	99	1	0		22.65	22.67	22.70		
20+20	100	0	100	0	16-QAM	20.34	20.14	20.33	25.11	0.3243
20+20	1	0	1	99		14.41	14.55	14.47		
20+20	1	99	1	0		21.85	21.85	21.91		
20+20	100	0	100	0	64-QAM	20.34	20.15	20.36	23.56	0.2270
20+20	1	0	1	99		14.33	14.44	14.44		
20+20	1	99	1	0		19.73	19.74	19.79		
20+20	100	0	100	0	256-QAM	18.29	18.21	18.43	21.63	0.1455
20+20	1	0	1	99		14.34	14.51	14.47		
20+20	1	99	1	0		17.74	17.77	17.77		
20+15	100	0	75	0	QPSK	21.28	21.11	21.20	25.93	0.3917
20+15	1	0	1	74		14.41	14.43	14.42		
20+15	1	74	1	0		22.69	22.72	22.73		
20+15	100	0	75	0	16-QAM	20.25	20.12	20.21	25.15	0.3273
20+15	1	0	1	74		14.51	14.56	14.52		
20+15	1	74	1	0		21.89	21.95	21.94		
20+15	100	0	75	0	64-QAM	20.26	20.11	20.21	23.46	0.2218
20+15	1	0	1	74		14.35	14.41	14.47		
20+15	1	74	1	0		19.80	19.82	19.84		
20+15	100	0	75	0	256-QAM	18.31	18.21	18.32	21.52	0.1419
20+15	1	0	1	74		14.51	14.47	14.48		
20+15	1	74	1	0		3.72	17.86	17.92		
15+20	75	0	100	0	QPSK	21.27	21.11	21.26	25.98	0.3963
15+20	1	0	1	99		14.40	14.46	14.38		
15+20	1	74	1	0		22.71	22.74	22.78		
15+20	75	0	100	0	16-QAM	20.29	20.11	20.27	25.19	0.3304
15+20	1	0	1	99		14.47	14.54	14.52		
15+20	1	74	1	0		21.96	21.91	21.99		
15+20	75	0	100	0	64-QAM	20.27	20.13	20.29	23.49	0.2234
15+20	1	0	1	99		14.45	14.47	14.45		
15+20	1	74	1	0		19.88	19.90	19.94		
15+20	75	0	100	0	256-QAM	18.32	18.19	18.34	21.54	0.1426
15+20	1	0	1	99		14.48	14.43	14.53		
15+20	1	74	1	0		17.82	17.84	17.92		
Limit	EIRP < 1W					Result			Pass	



LTE Band 66C_CA Maximum Average Power [dBm] (GT - LC = 3.2 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+10	100	0	50	0	QPSK	21.09	21.04	21.11	25.92	0.3908
20+10	1	0	1	49		14.22	14.29	14.32		
20+10	1	99	1	0		22.63	22.64	22.72		
20+10	100	0	50	0	16-QAM	20.10	20.04	20.10	25.17	0.3289
20+10	1	0	1	49		14.27	14.33	14.40		
20+10	1	99	1	0		21.82	21.85	21.97		
20+10	100	0	50	0	64-QAM	20.10	20.05	20.12	23.32	0.2148
20+10	1	0	1	49		14.18	14.32	14.34		
20+10	1	99	1	0		19.78	19.81	19.88		
20+10	100	0	50	0	256-QAM	18.13	18.10	18.15	21.35	0.1365
20+10	1	0	1	49		14.27	14.30	14.38		
20+10	1	99	1	0		17.79	17.79	17.83		
10+20	50	0	100	0	QPSK	21.15	21.07	21.11	25.84	0.3837
10+20	1	0	1	99		14.23	14.30	14.35		
10+20	1	49	1	0		22.56	22.60	22.64		
10+20	50	0	100	0	16-QAM	20.13	20.08	20.13	25.02	0.3177
10+20	1	0	1	99		14.29	14.32	14.40		
10+20	1	49	1	0		21.74	21.82	21.82		
10+20	50	0	100	0	64-QAM	20.14	20.06	20.10	23.34	0.2158
10+20	1	0	1	99		14.23	14.34	14.32		
10+20	1	49	1	0		19.69	19.72	19.73		
10+20	50	0	100	0	256-QAM	18.18	18.16	18.20	21.40	0.1380
10+20	1	0	1	99		14.32	14.33	14.42		
10+20	1	49	1	0		17.76	17.70	17.84		
20+5	100	0	25	0	QPSK	20.97	20.84	20.87	25.80	0.3802
20+5	1	0	1	24		14.19	14.41	14.20		
20+5	1	99	1	0		22.46	22.49	22.60		
20+5	100	0	25	0	16-QAM	19.98	19.85	19.86	24.93	0.3112
20+5	1	0	1	24		14.29	14.33	14.37		
20+5	1	99	1	0		21.66	21.69	21.73		
20+5	100	0	25	0	64-QAM	19.95	19.83	19.86	23.15	0.2065
20+5	1	0	1	24		14.13	14.28	14.26		
20+5	1	99	1	0		19.54	19.59	19.66		
20+5	100	0	25	0	256-QAM	18.09	17.94	17.99	21.29	0.1346
20+5	1	0	1	24		14.19	14.18	14.32		
20+5	1	99	1	0		17.57	17.80	17.79		
Limit	EIRP < 1W					Result			Pass	



LTE Band 66C_CA Maximum Average Power [dBm] (GT - LC = 3.2 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
5+20	25	0	100	0	QPSK	21.23	21.25	20.78	25.75	0.3758
5+20	1	0	1	99		14.23	14.35	14.42		
5+20	1	24	1	0		22.46	22.49	22.55		
5+20	25	0	100	0	16-QAM	20.21	20.27	19.78	24.92	0.3105
5+20	1	0	1	99		14.31	14.41	14.32		
5+20	1	24	1	0		21.66	21.66	21.72		
5+20	25	0	100	0	64-QAM	20.25	20.27	19.83	23.47	0.2223
5+20	1	0	1	99		14.29	14.25	14.40		
5+20	1	24	1	0		19.54	19.65	19.70		
5+20	25	0	100	0	256-QAM	18.29	18.38	17.83	21.58	0.1439
5+20	1	0	1	99		14.48	14.21	14.23		
5+20	1	24	1	0		17.68	17.69	17.75		
Limit	EIRP < 1W					Result			Pass	



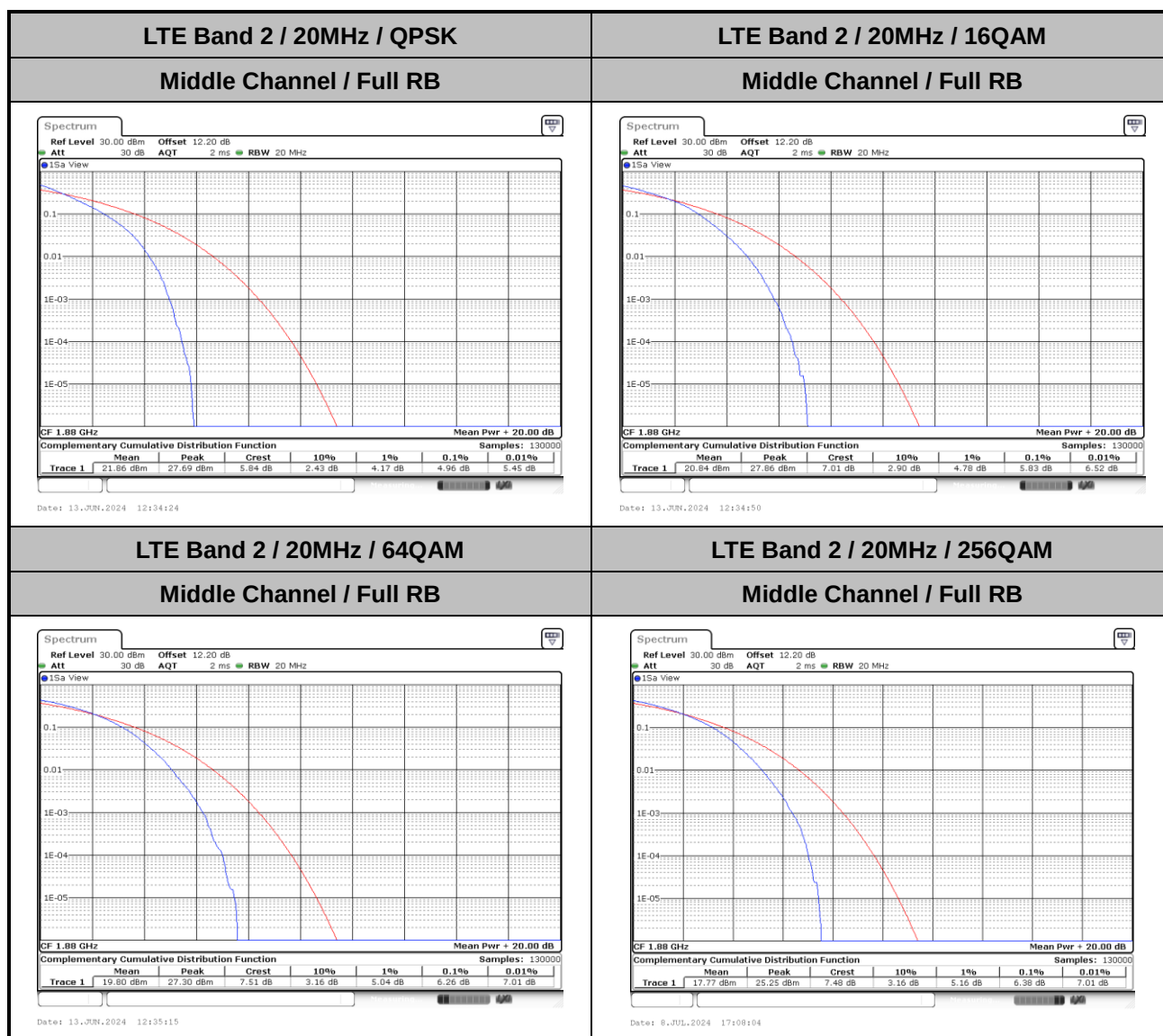
LTE Band 66C_CA Maximum Average Power [dBm] (GT - LC = 3.2 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
15+10	75	0	50	0	QPSK	21.07	20.98	20.88	25.89	0.3882
15+10	1	0	1	49		14.33	14.37	14.29		
15+10	1	74	1	0		22.59	22.64	22.69		
15+10	75	0	50	0	16-QAM	20.07	19.95	19.89	25.11	0.3243
15+10	1	0	1	49		14.45	14.39	14.45		
15+10	1	74	1	0		21.84	21.79	21.91		
15+10	75	0	50	0	64-QAM	20.08	19.98	19.91	23.28	0.2128
15+10	1	0	1	49		14.26	14.29	14.24		
15+10	1	74	1	0		19.73	19.79	19.87		
15+10	75	0	50	0	256-QAM	18.08	18.06	18.00	21.28	0.1343
15+10	1	0	1	49		14.14	14.34	14.11		
15+10	1	74	1	0		17.80	17.83	17.86		
10+15	50	0	75	0	QPSK	19.68	21.10	20.83	25.83	0.3828
10+15	1	0	1	74		14.39	14.43	14.12		
10+15	1	49	1	0		22.53	22.59	22.63		
10+15	50	0	75	0	16-QAM	8.60	20.09	19.85	25.08	0.3221
10+15	1	0	1	74		14.44	14.30	14.33		
10+15	1	49	1	0		21.77	21.88	21.87		
10+15	50	0	75	0	64-QAM	8.74	20.11	19.86	23.31	0.2143
10+15	1	0	1	74		14.29	14.34	14.30		
10+15	1	49	1	0		19.67	19.73	19.82		
10+15	50	0	75	0	256-QAM	18.16	18.16	17.87	21.36	0.1368
10+15	1	0	1	74		14.26	14.27	14.17		
10+15	1	49	1	0		17.64	17.68	17.76		
15+15	75	0	75	0	QPSK	21.18	21.13	21.19	26.09	0.4064
15+15	1	0	1	74		14.39	14.52	14.49		
15+15	1	74	1	0		22.86	22.84	22.89		
15+15	75	0	75	0	16-QAM	20.18	20.13	20.20	25.28	0.3373
15+15	1	0	1	74		14.42	14.55	14.59		
15+15	1	74	1	0		22.07	22.08	22.08		
15+15	75	0	75	0	64-QAM	20.17	20.17	20.22	23.42	0.2198
15+15	1	0	1	74		14.43	14.54	14.58		
15+15	1	74	1	0		19.97	19.98	20.00		
15+15	75	0	75	0	256-QAM	18.27	18.22	18.22	21.47	0.1403
15+15	1	0	1	74		14.46	14.62	14.60		
15+15	1	74	1	0		17.93	17.95	18.02		
Limit	EIRP < 1W					Result			Pass	



LTE Band 2

Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.96	5.83	6.26	6.38	PASS



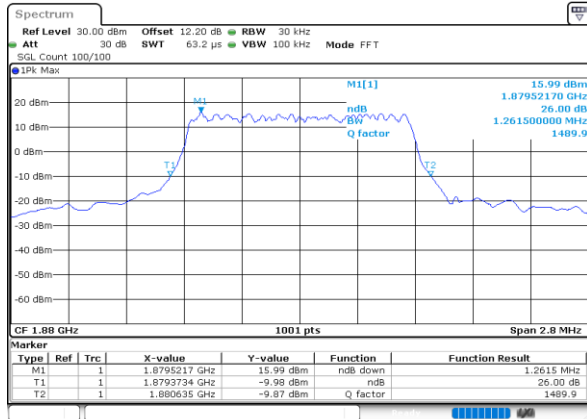
**26dB Bandwidth**

Mode	LTE Band 2 : 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	1.26	1.28	2.98	2.99	4.92	4.89	9.78	9.99	14.47	14.20	18.74	18.78
Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.28	1.26	2.93	2.99	4.85	4.78	9.73	9.63	14.29	14.50	18.86	18.94

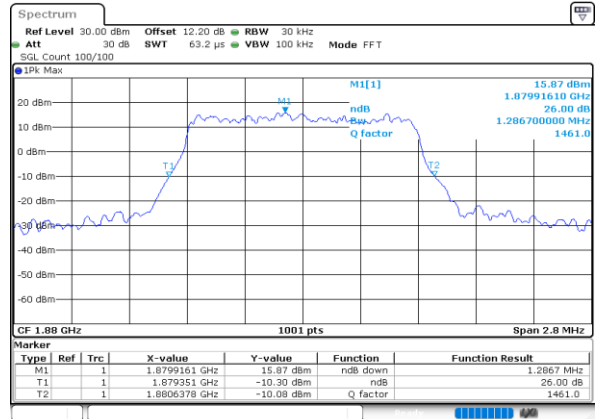


LTE Band 2

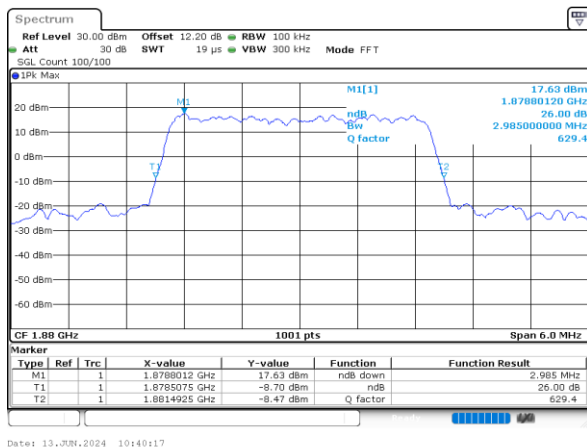
Middle Channel / 1.4MHz / QPSK



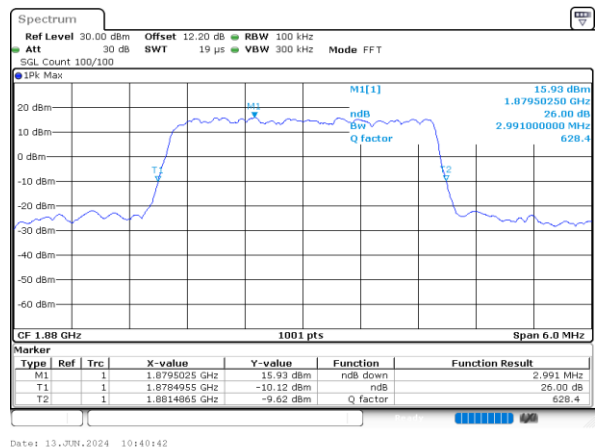
Middle Channel / 1.4MHz / 16QAM



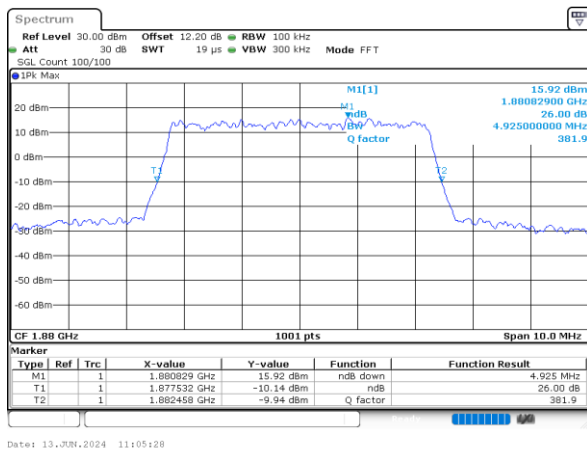
Middle Channel / 3MHz / QPSK



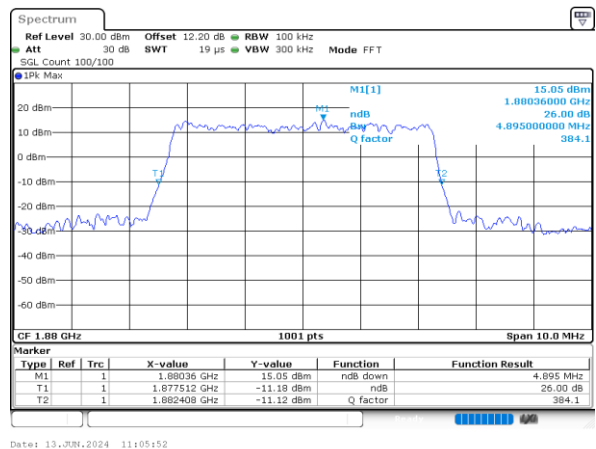
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



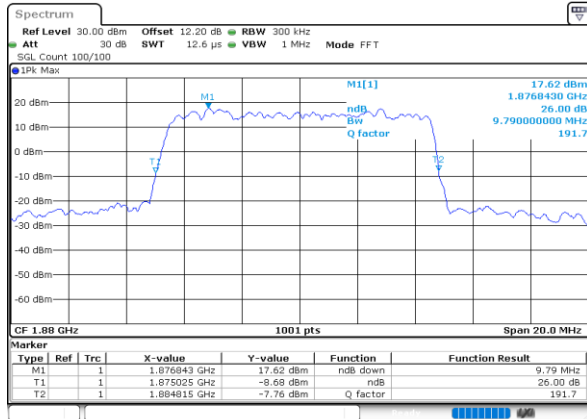
Middle Channel / 5MHz / 16QAM



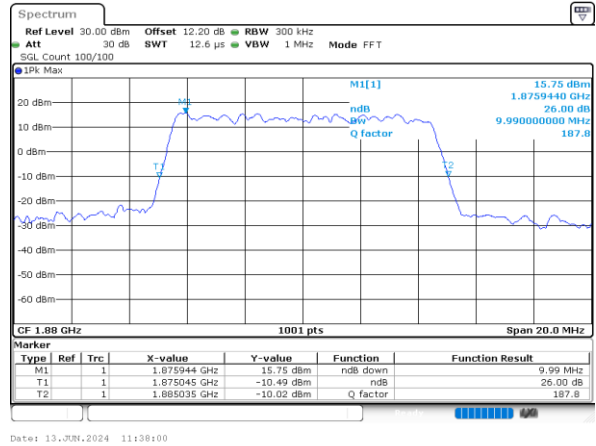


LTE Band 2

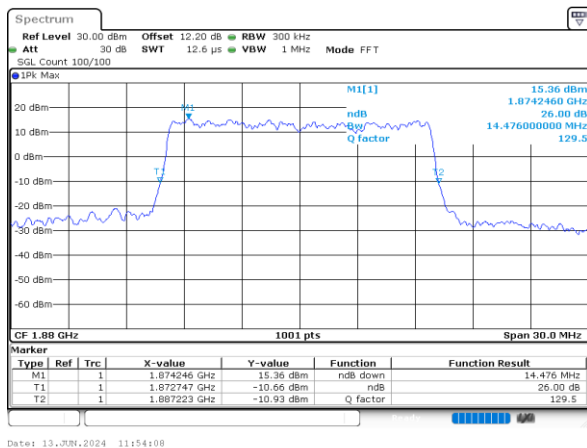
Middle Channel / 10MHz / QPSK



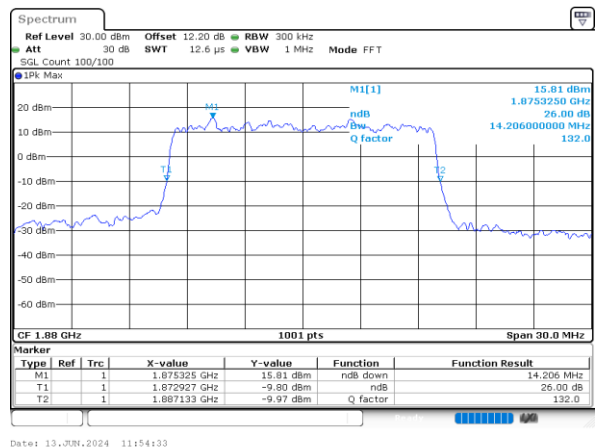
Middle Channel / 10MHz / 16QAM



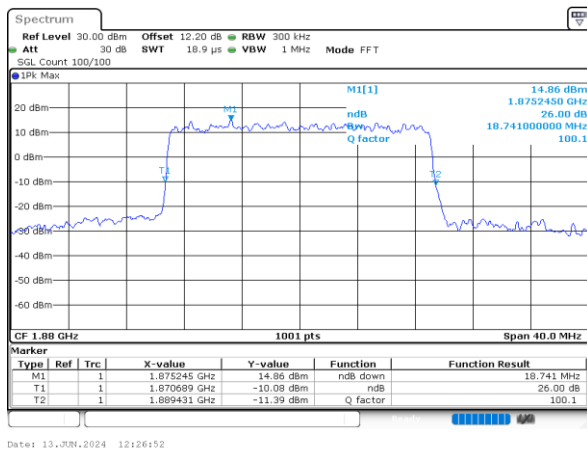
Middle Channel / 15MHz / QPSK



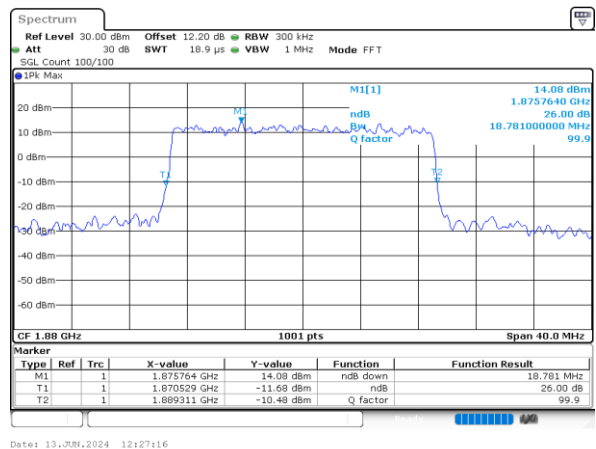
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



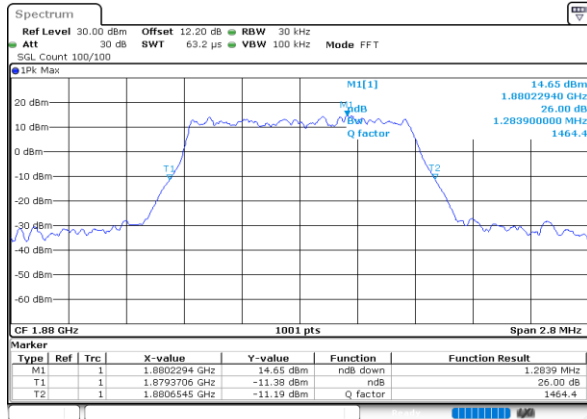
Middle Channel / 20MHz / 16QAM



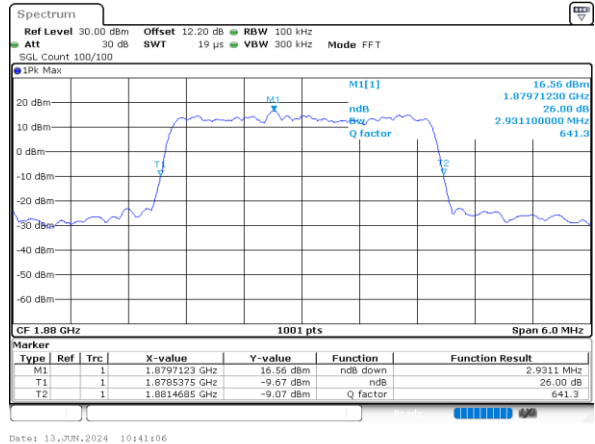


LTE Band 2

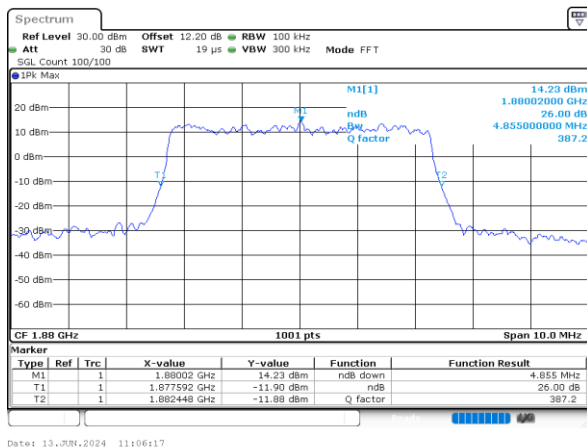
Middle Channel / 1.4MHz / 64QAM



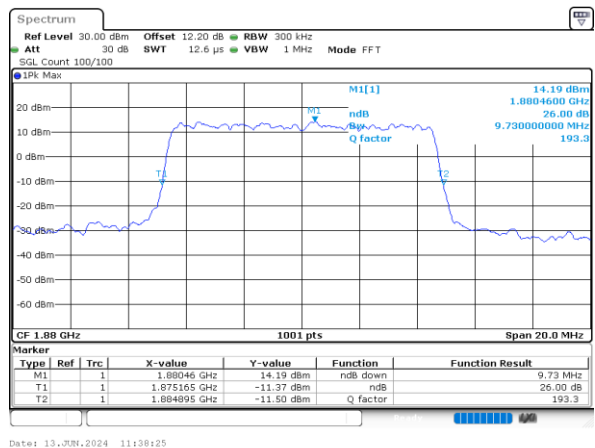
Middle Channel / 3MHz / 64QAM



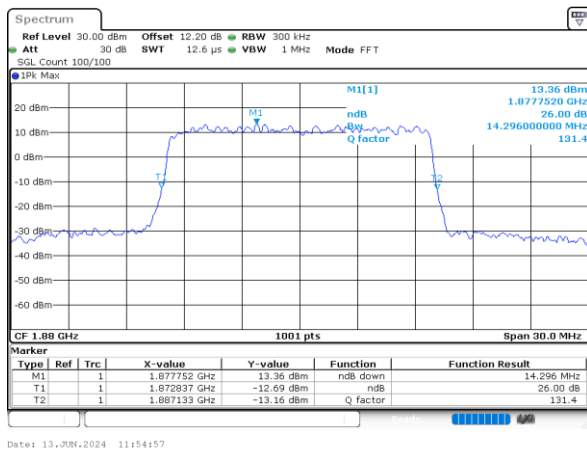
Middle Channel / 5MHz / 64QAM



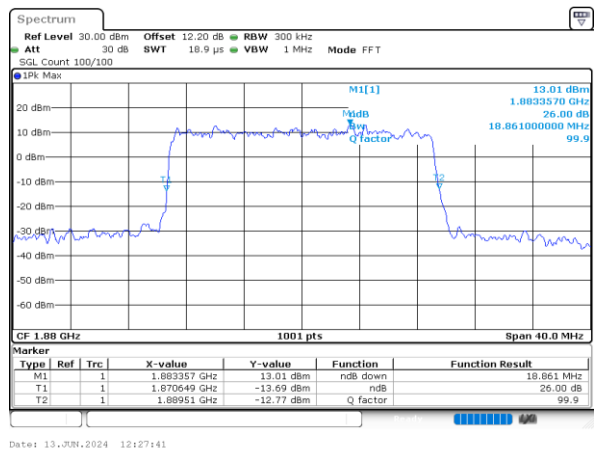
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



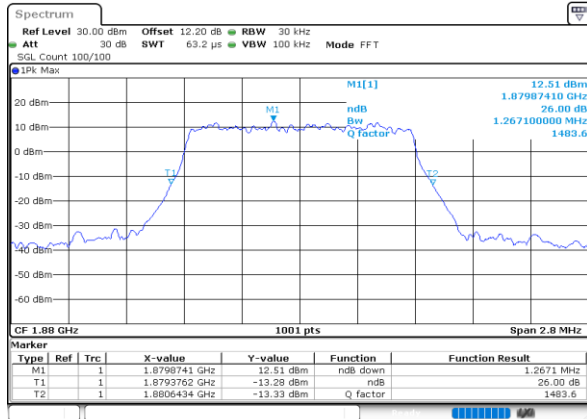
Middle Channel / 20MHz / 64QAM



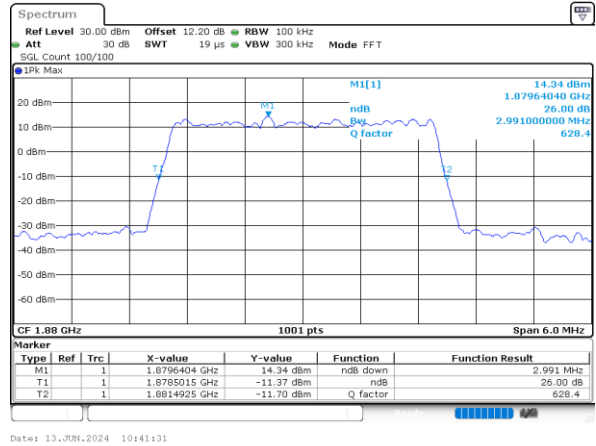


LTE Band 2

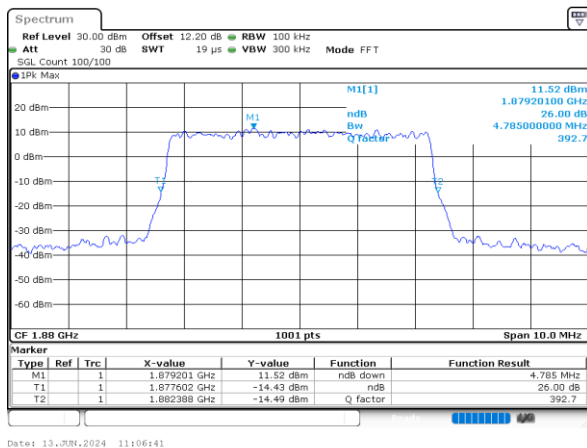
Middle Channel / 1.4MHz / 256QAM



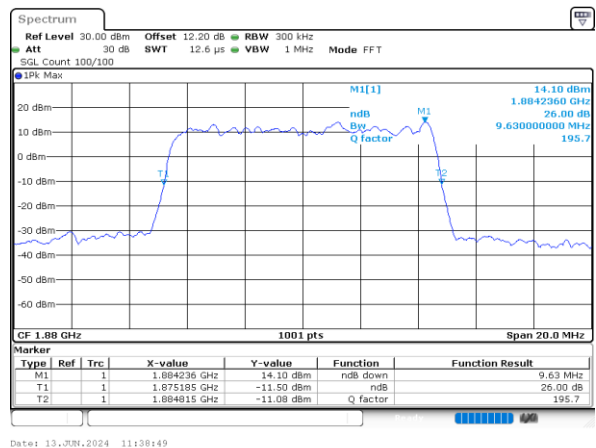
Middle Channel / 3MHz / 256QAM



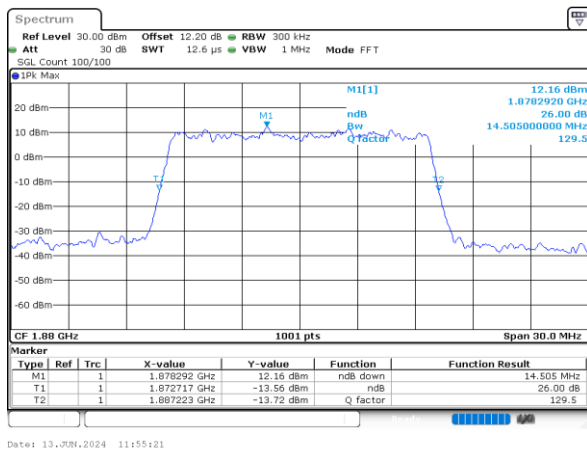
Middle Channel / 5MHz / 256QAM



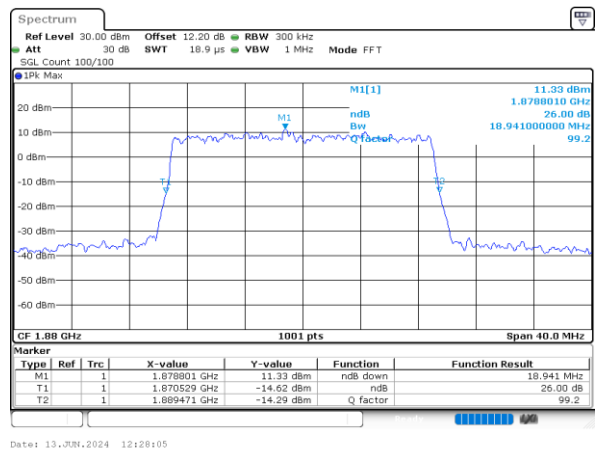
Middle Channel / 10MHz / 256QAM



Middle Channel / 15MHz / 256QAM



Middle Channel / 20MHz / 256QAM



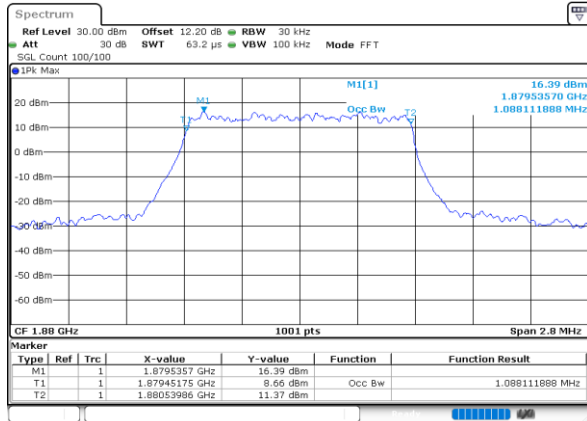
**Occupied Bandwidth**

Mode	LTE Band 2 : 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	1.08	1.09	2.71	2.72	4.50	4.46	9.01	8.99	13.51	13.39	17.86	17.90
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.09	1.08	2.72	2.72	4.48	4.48	9.07	9.07	13.45	13.48	17.82	17.94

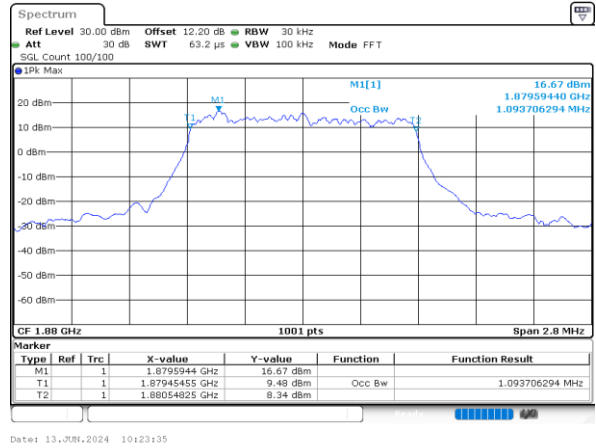


LTE Band 2

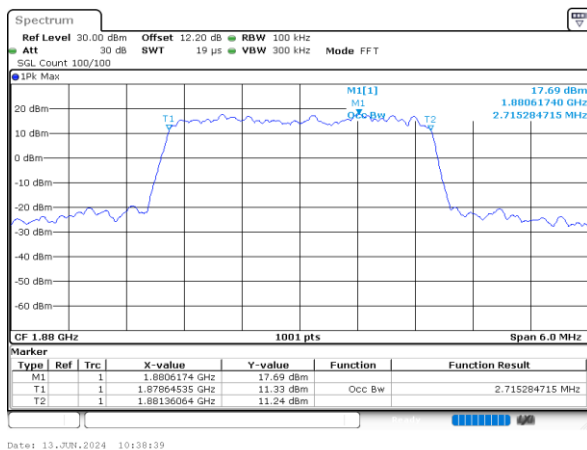
Middle Channel / 1.4MHz / QPSK



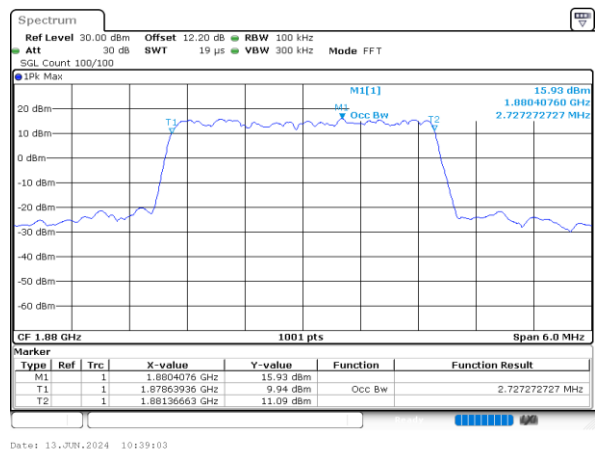
Middle Channel / 1.4MHz / 16QAM



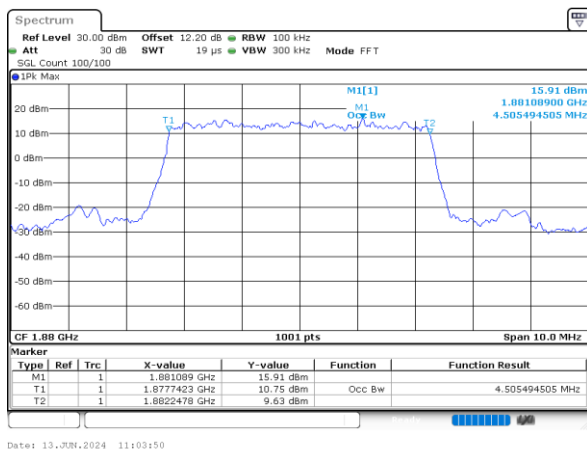
Middle Channel / 3MHz / QPSK



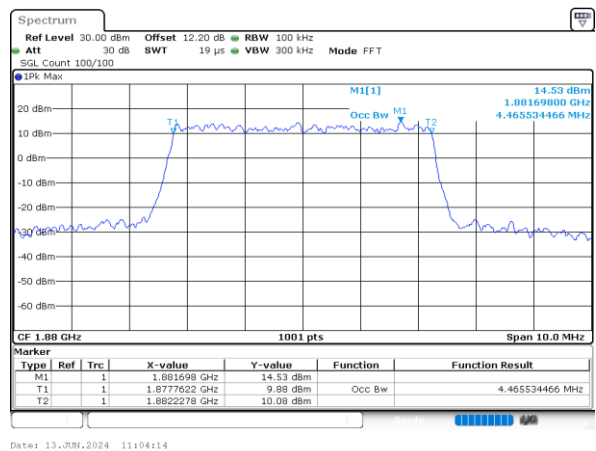
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



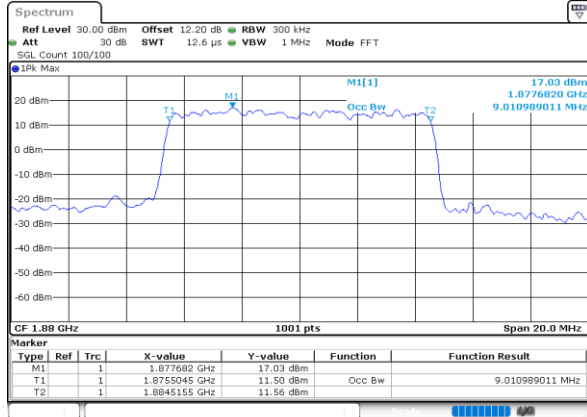
Middle Channel / 5MHz / 16QAM



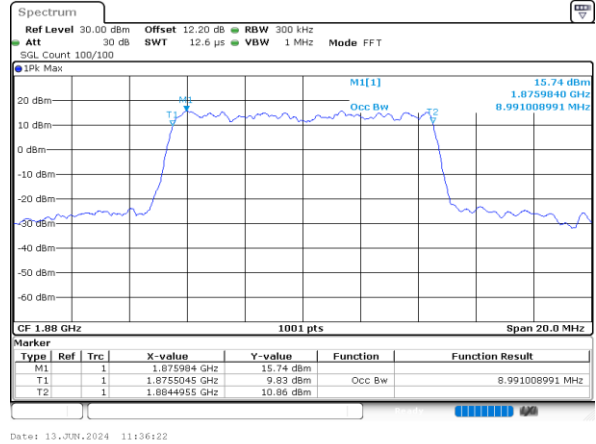


LTE Band 2

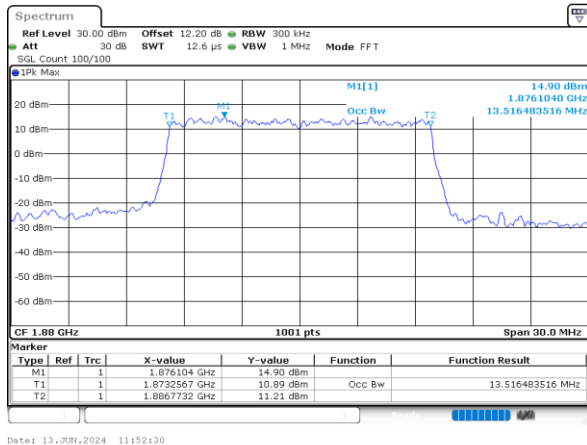
Middle Channel / 10MHz / QPSK



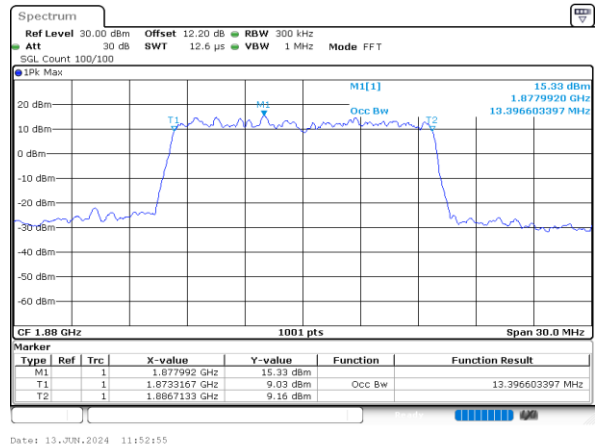
Middle Channel / 10MHz / 16QAM



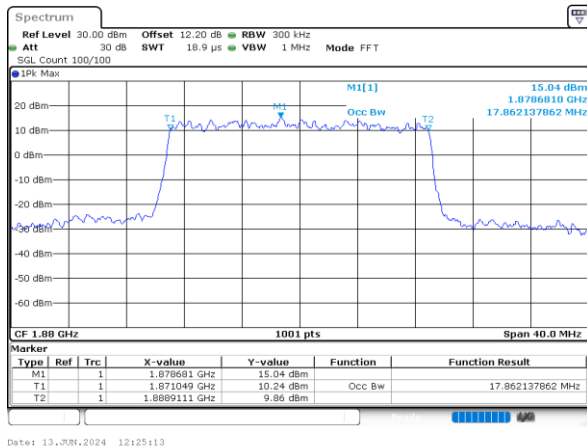
Middle Channel / 15MHz / QPSK



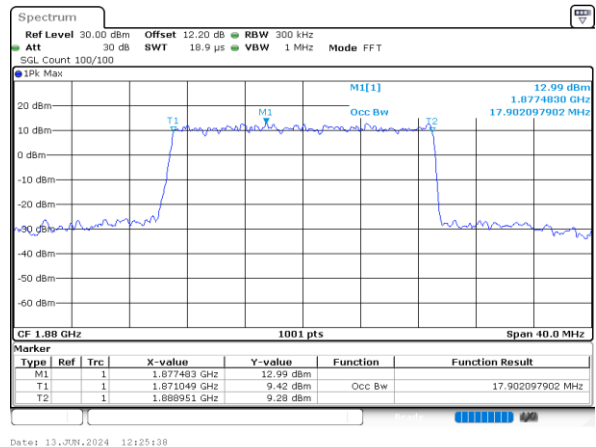
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



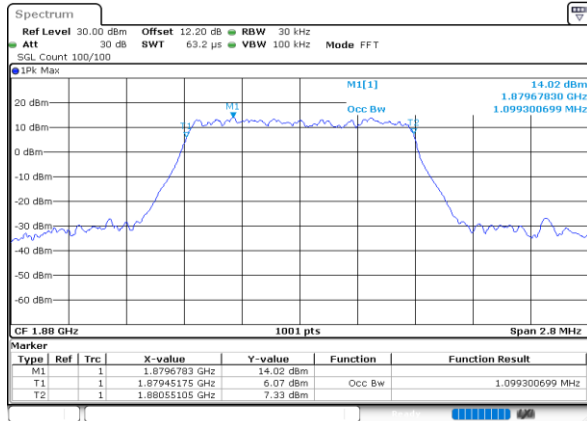
Middle Channel / 20MHz / 16QAM



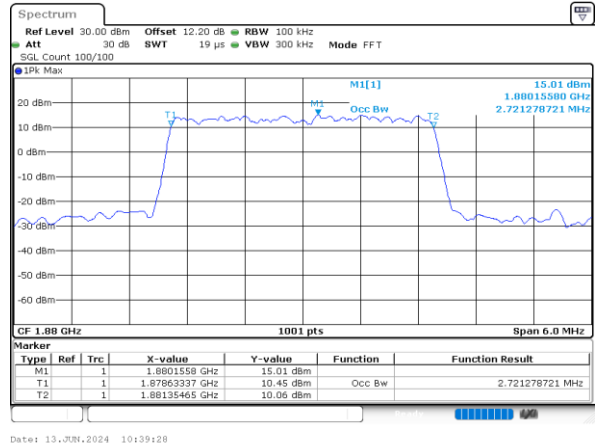


LTE Band 2

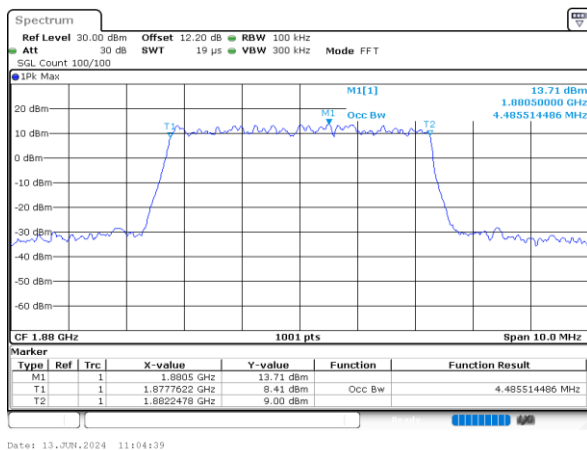
Middle Channel / 1.4MHz / 64QAM



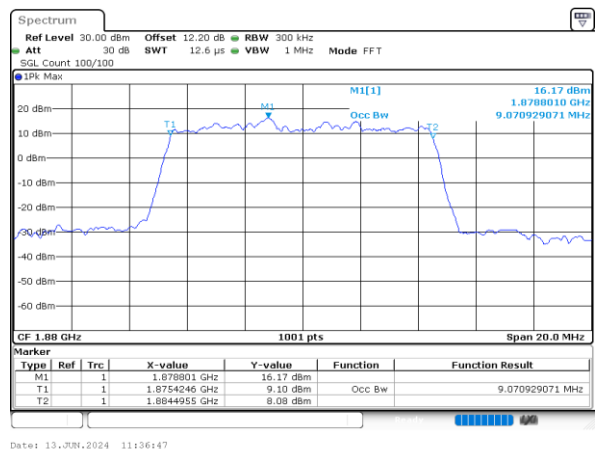
Middle Channel / 3MHz / 64QAM



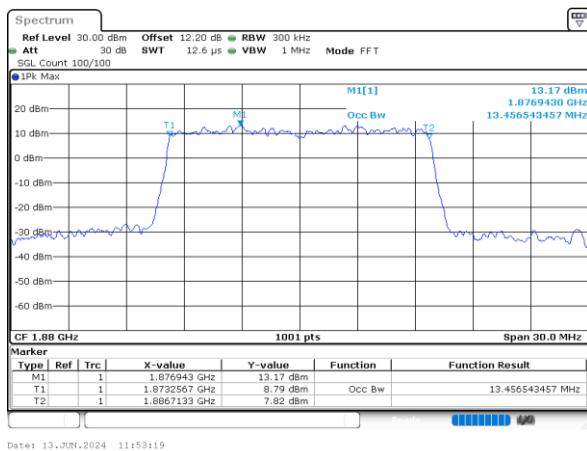
Middle Channel / 5MHz / 64QAM



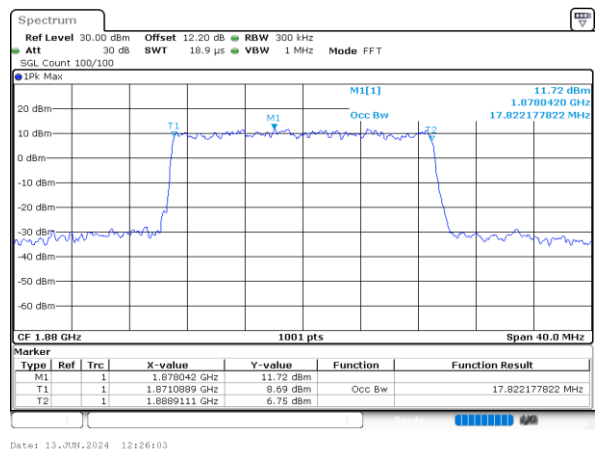
Middle Channel / 10MHz / 64QAM



Middle Channel / 15MHz / 64QAM



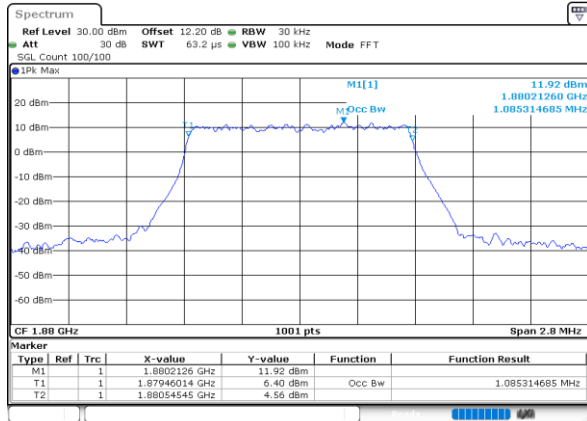
Middle Channel / 20MHz / 64QAM



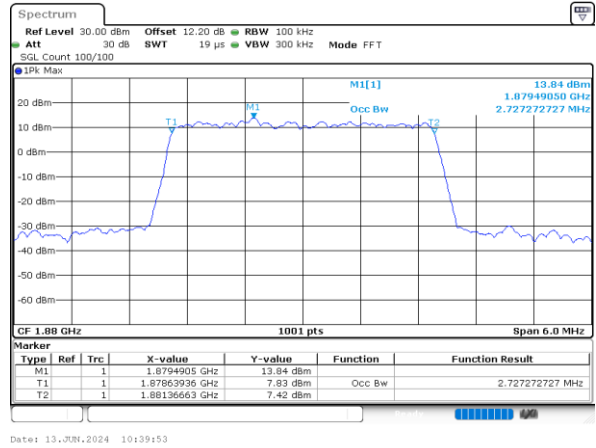


LTE Band 2

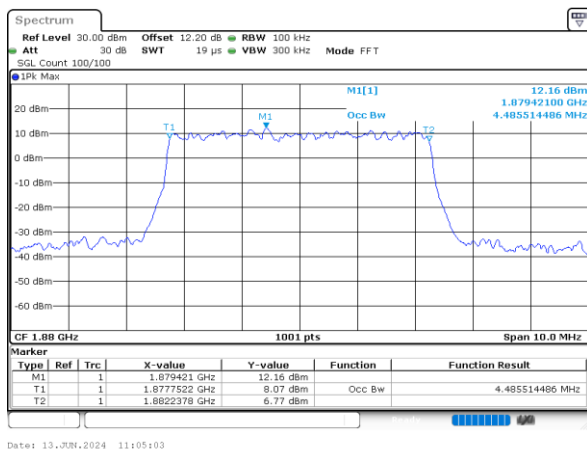
Middle Channel / 1.4MHz / 256QAM



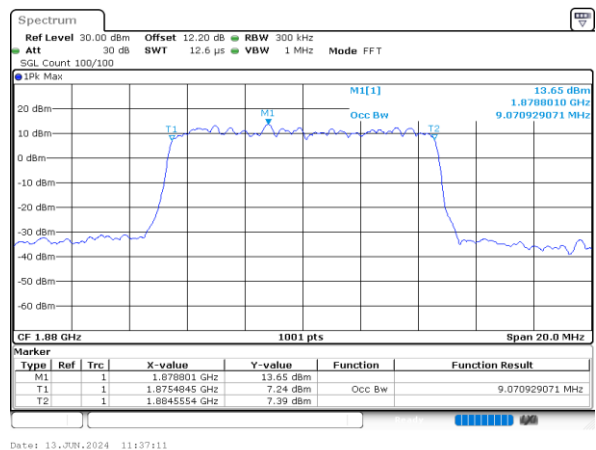
Middle Channel / 3MHz / 256QAM



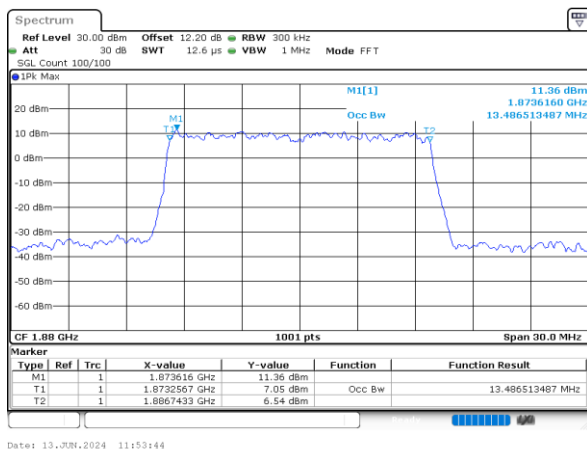
Middle Channel / 5MHz / 256QAM



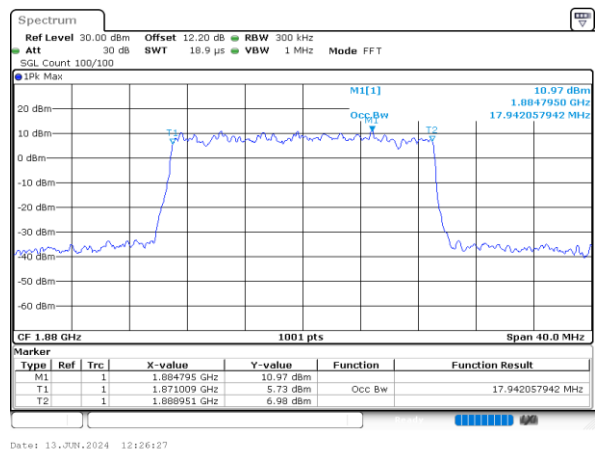
Middle Channel / 10MHz / 256QAM



Middle Channel / 15MHz / 256QAM



Middle Channel / 20MHz / 256QAM

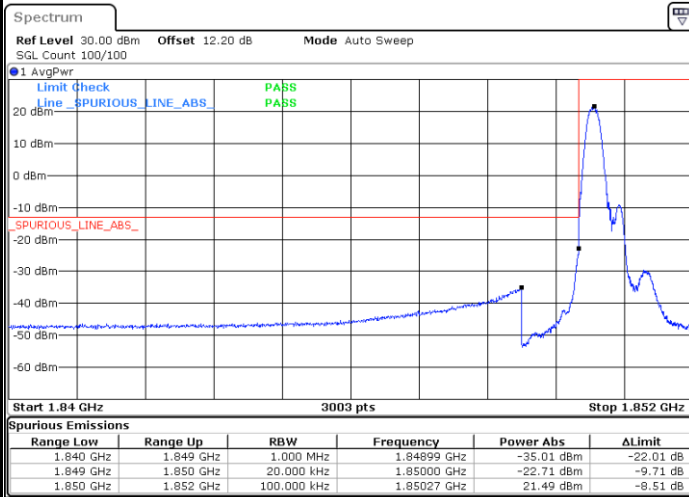




Conducted Band Edge

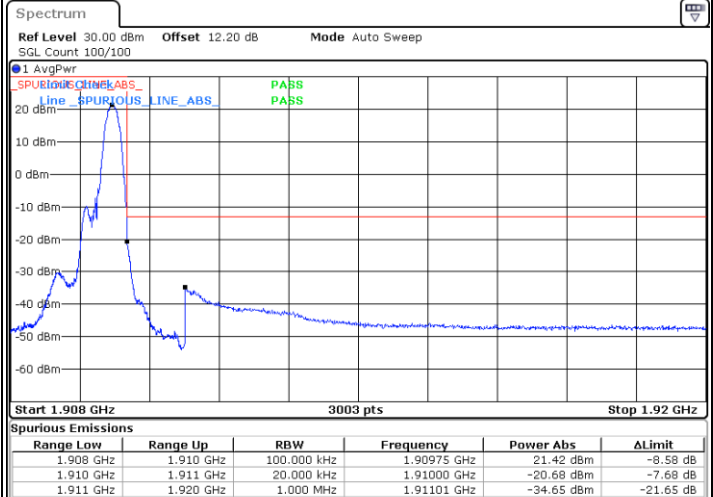
LTE Band 2 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



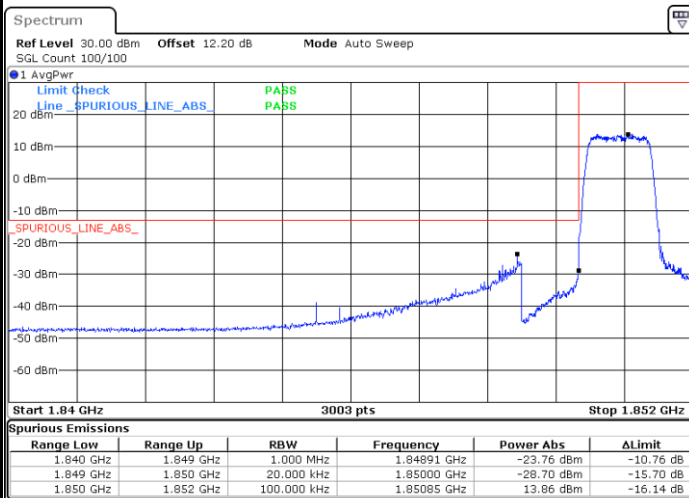
Date: 13.JUN.2024 10:15:27

Highest Band Edge / 1RB



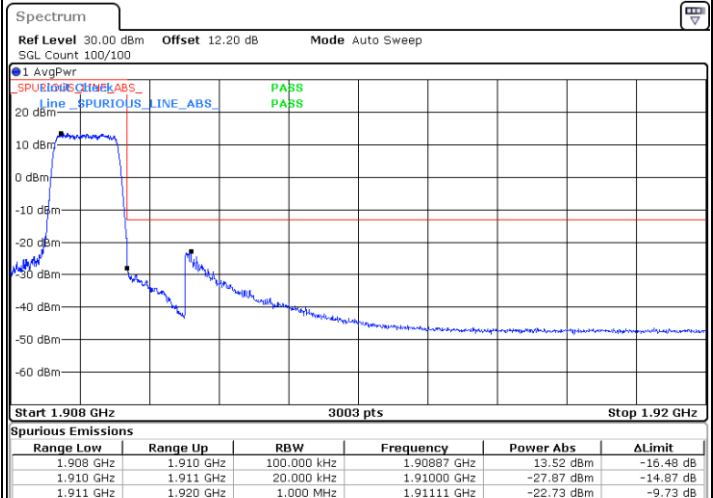
Date: 13.JUN.2024 10:19:21

Lowest Band Edge / Full RB



Date: 13.JUN.2024 10:17:24

Highest Band Edge / Full RB

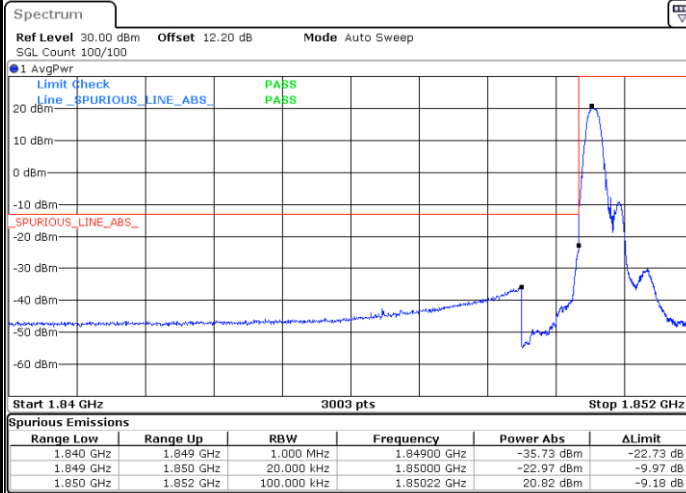


Date: 13.JUN.2024 10:21:18

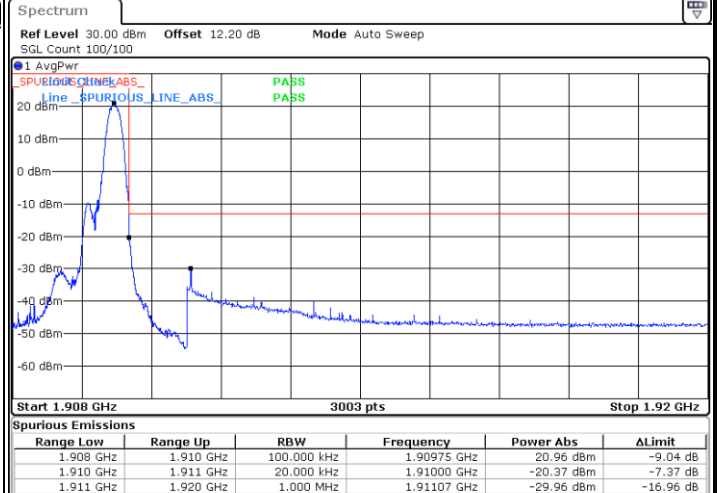


LTE Band 2 / 1.4MHz / 16QAM

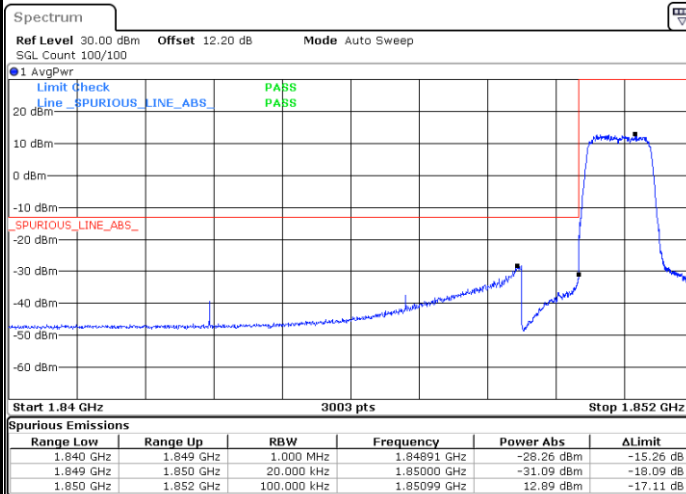
Lowest Band Edge / 1 RB



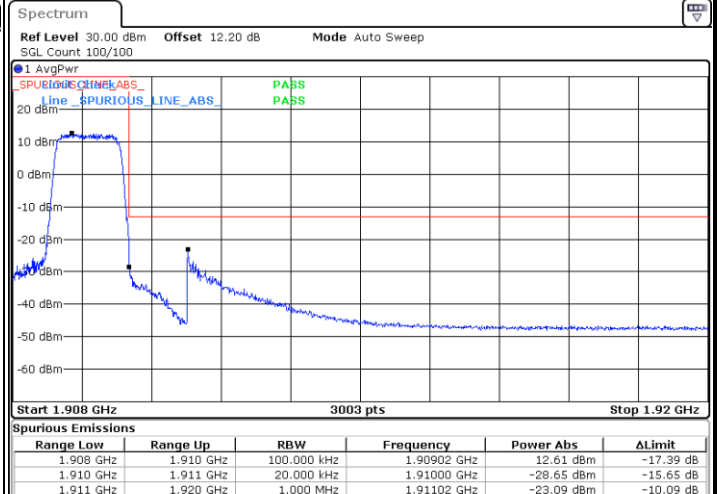
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



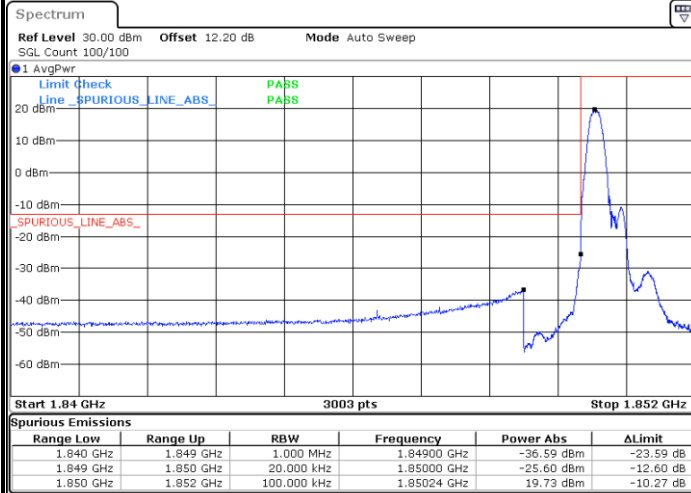
Highest Band Edge / Full RB



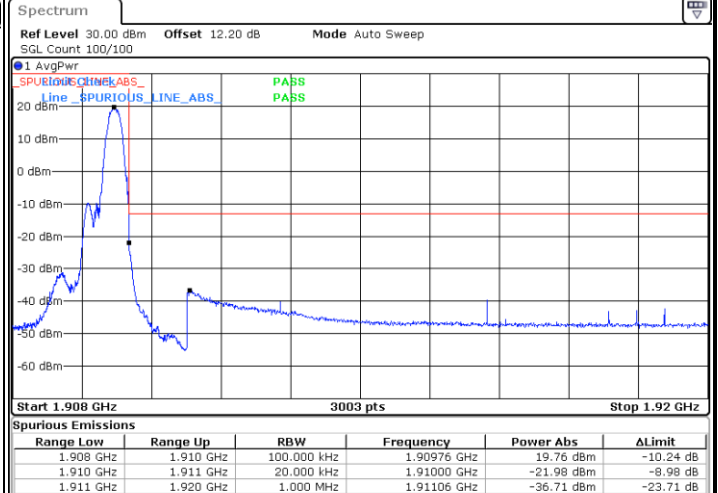


LTE Band 2 / 1.4MHz / 64QAM

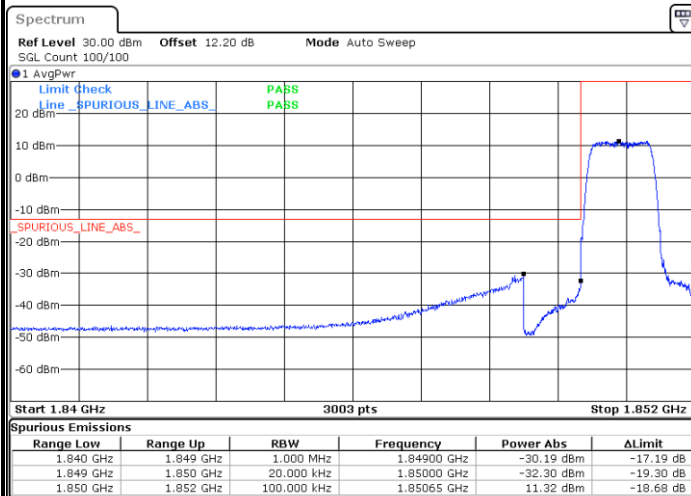
Lowest Band Edge / 1 RB



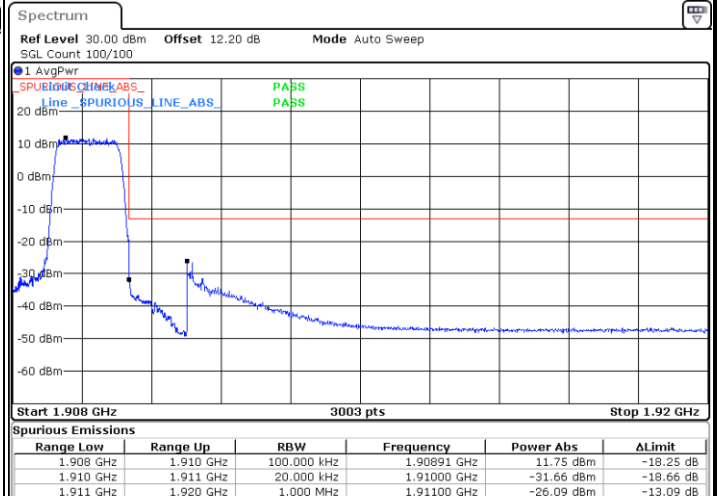
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



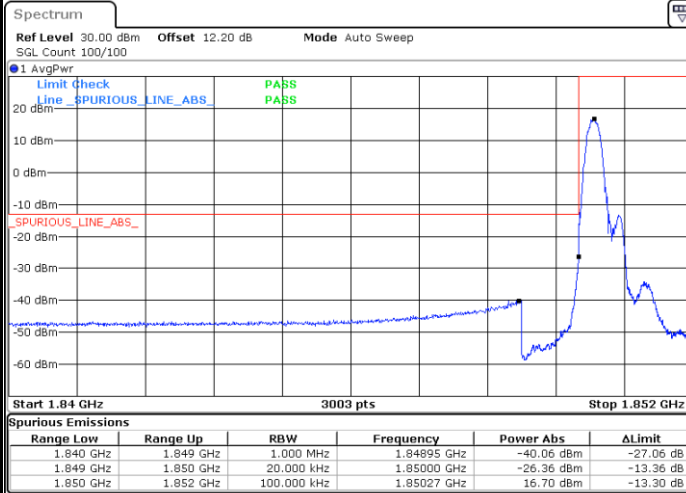
Highest Band Edge / Full RB



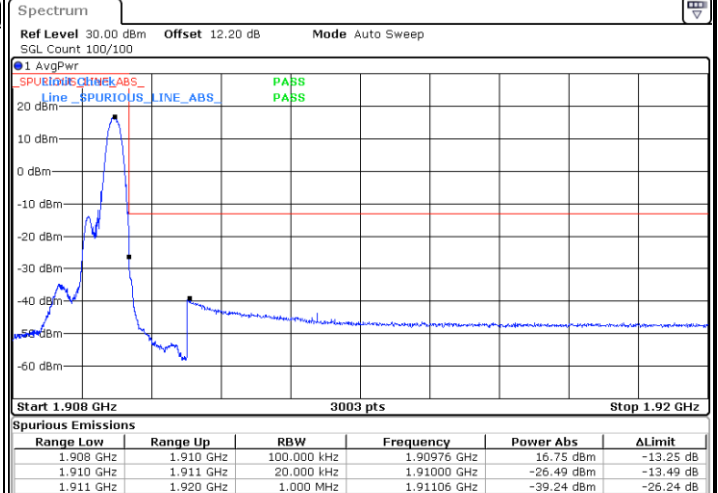


LTE Band 2 / 1.4MHz / 256QAM

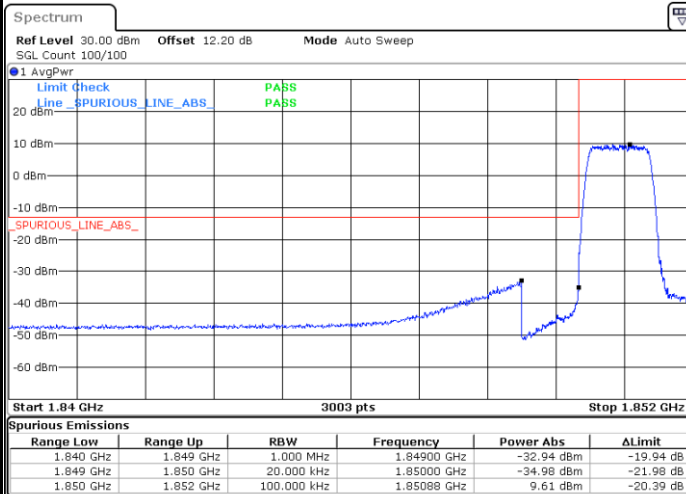
Lowest Band Edge / 1 RB



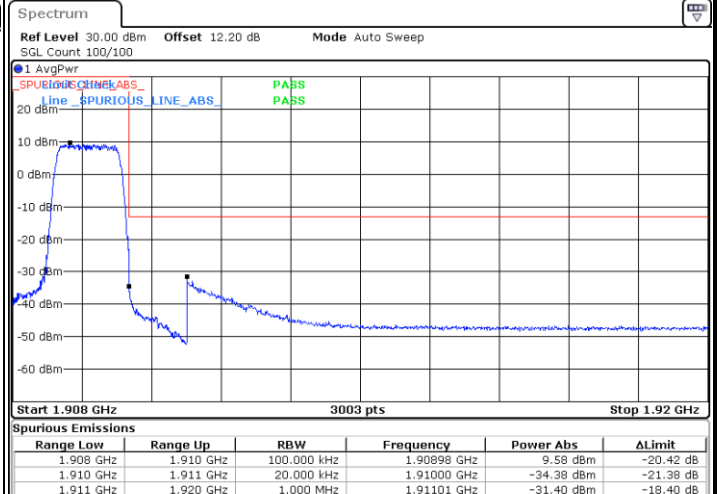
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

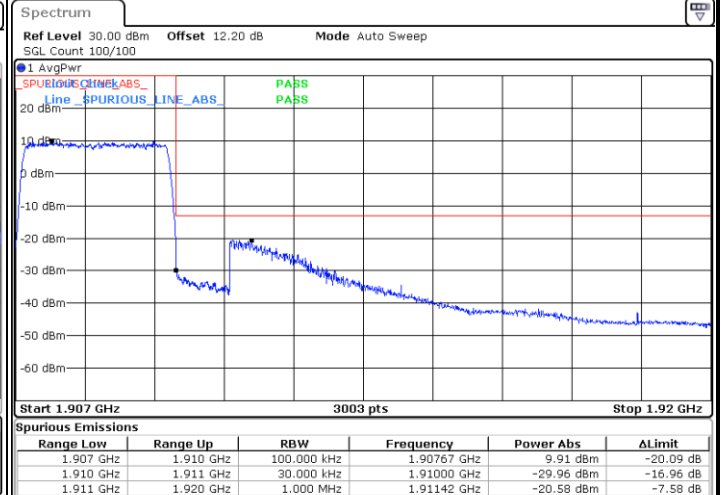
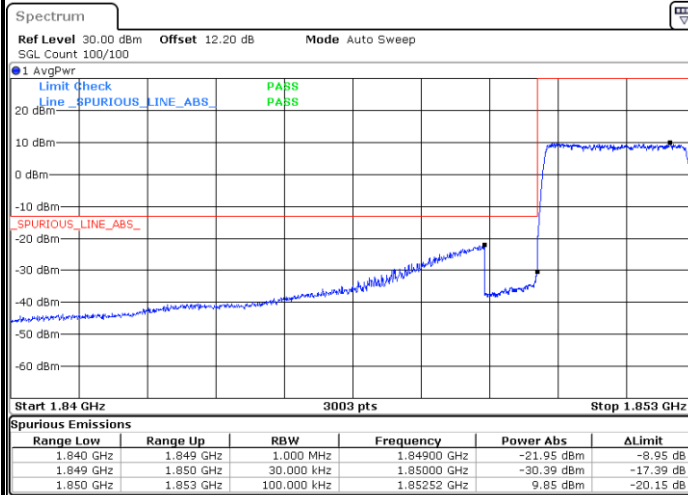




LTE Band 2 / 3MHz / QPSK

Lowest Band Edge / Full RB

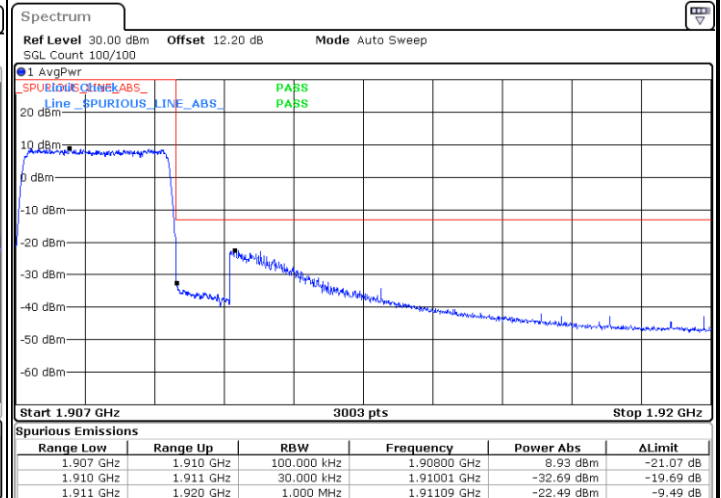
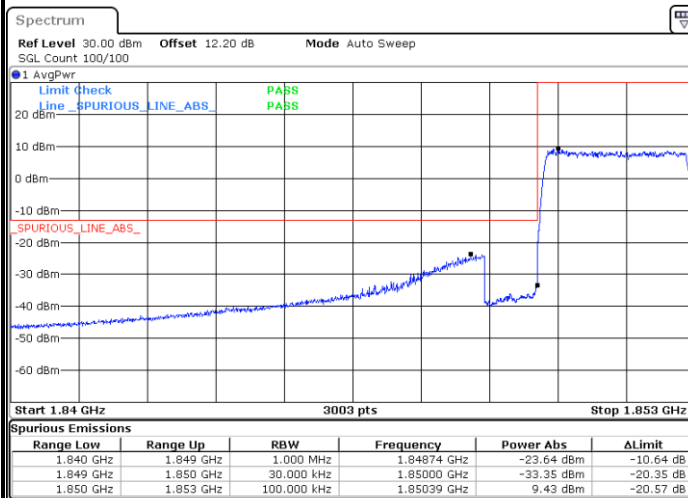
Highest Band Edge / Full RB



LTE Band 2 / 3MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

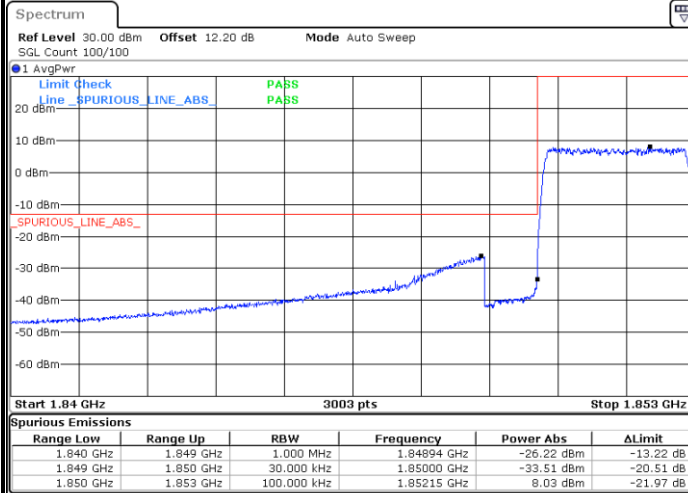




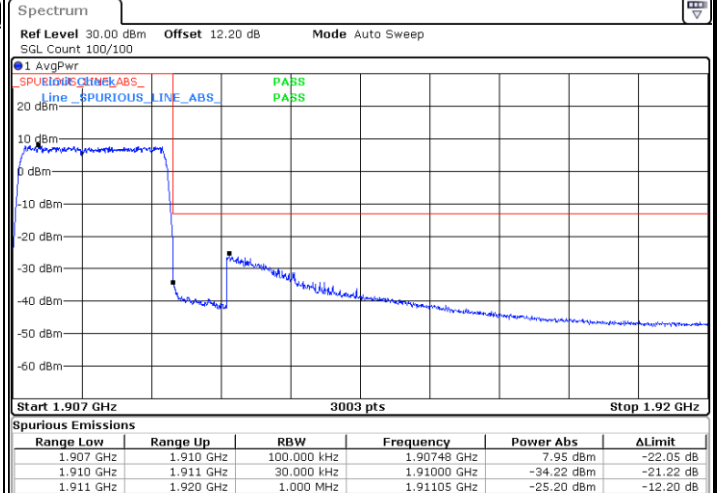
LTE Band 2 / 3MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.JUN.2024 10:33:50

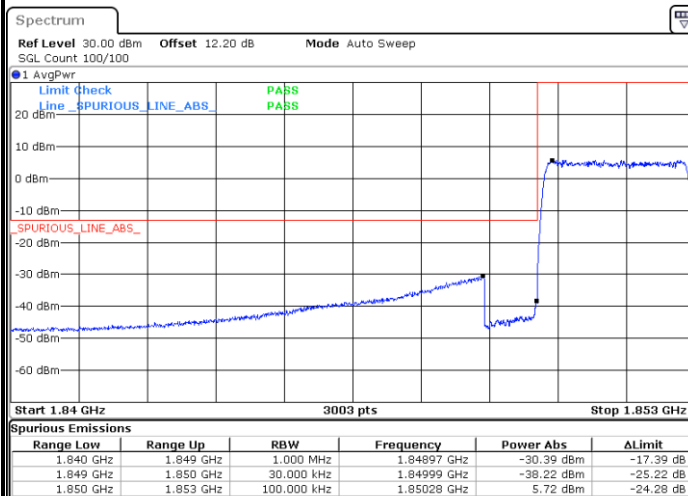


Date: 13.JUN.2024 10:37:44

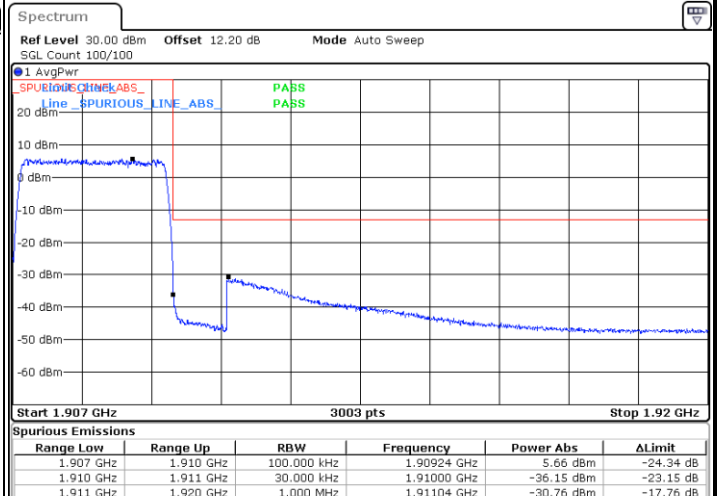
LTE Band 2 / 3MHz / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.JUN.2024 10:34:19



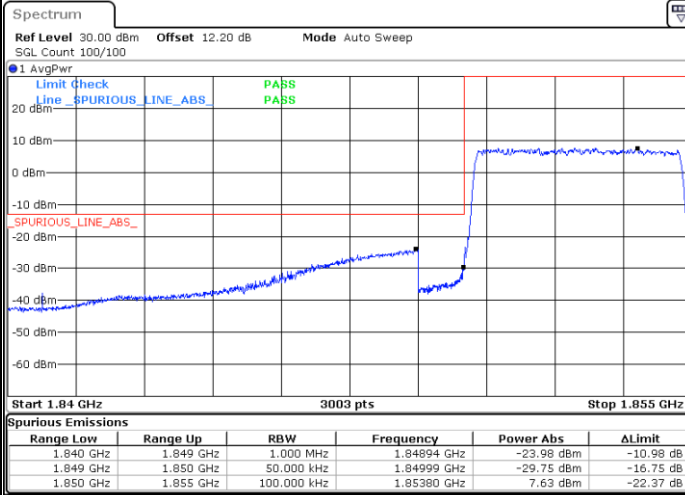
Date: 13.JUN.2024 10:38:13



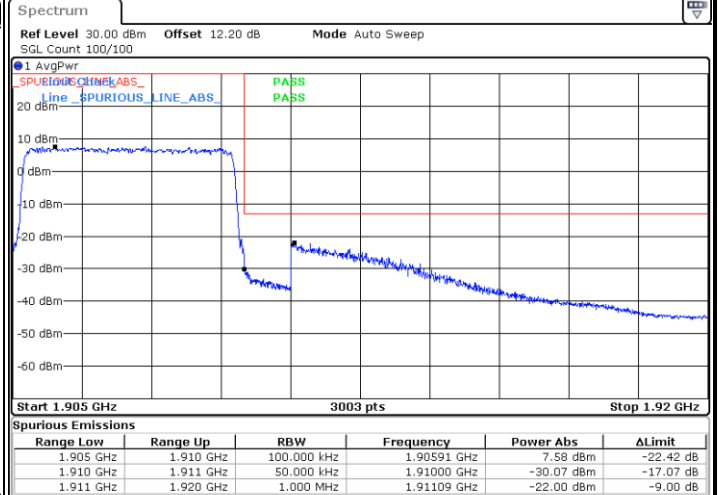
LTE Band 2 / 5MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.JUN.2024 10:49:31

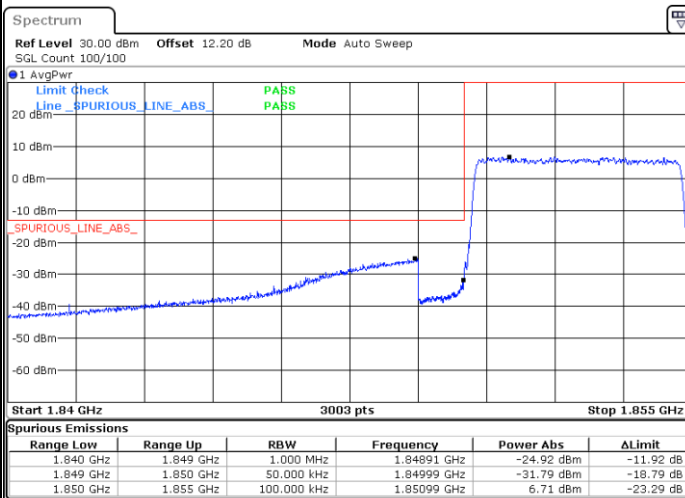


Date: 13.JUN.2024 11:01:58

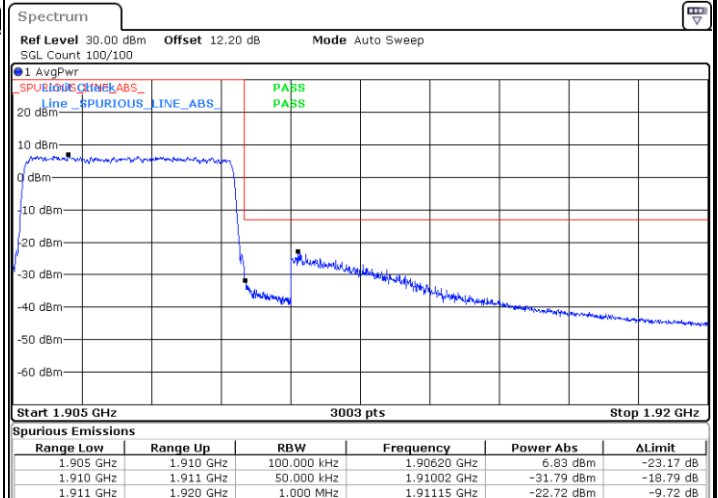
LTE Band 2 / 5MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.JUN.2024 10:50:00



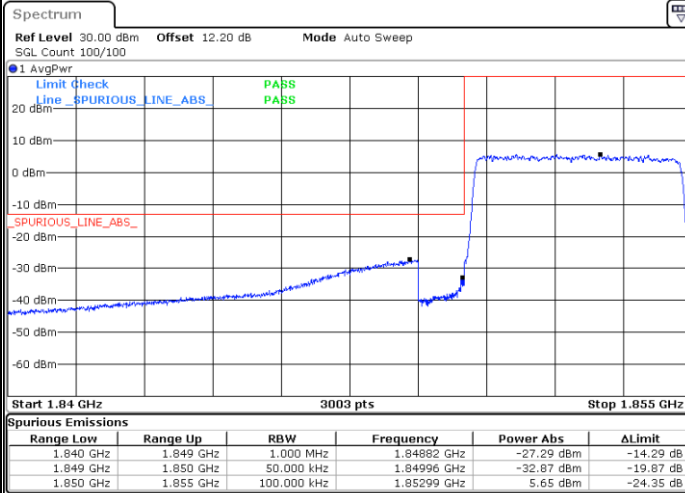
Date: 13.JUN.2024 11:02:27



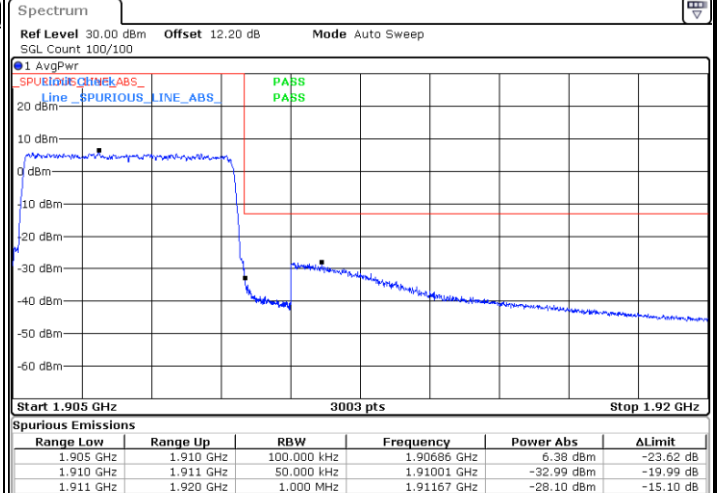
LTE Band 2 / 5MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.JUN.2024 10:50:29

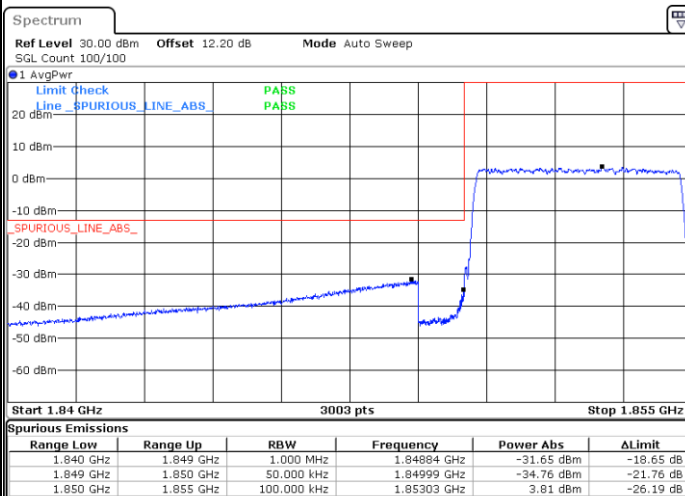


Date: 13.JUN.2024 11:02:56

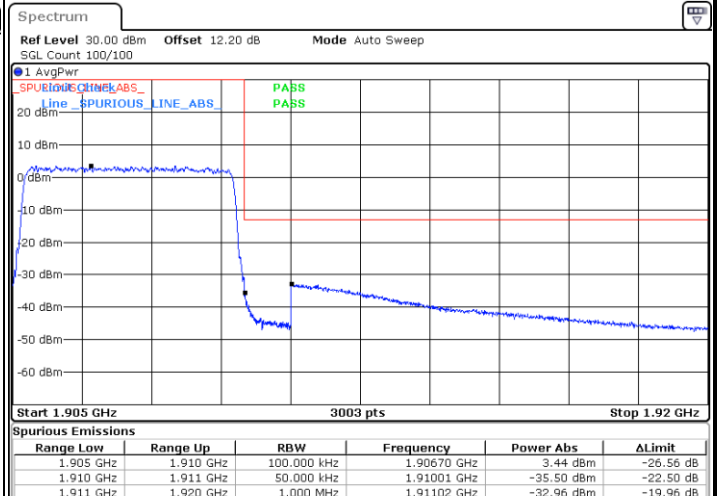
LTE Band 2 / 5MHz / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.JUN.2024 10:52:56



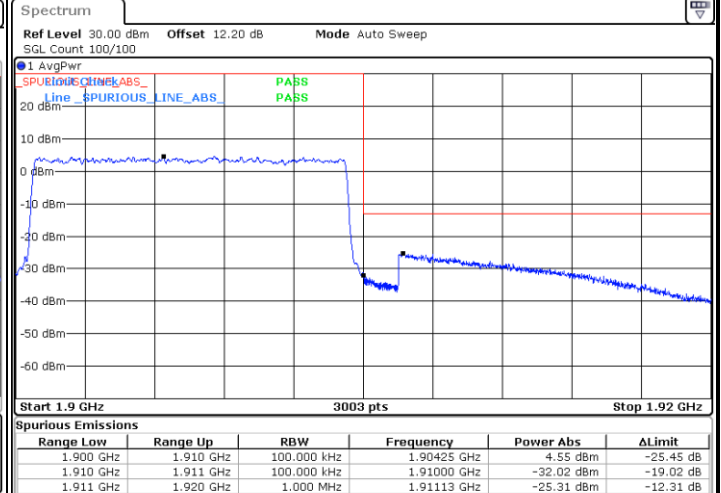
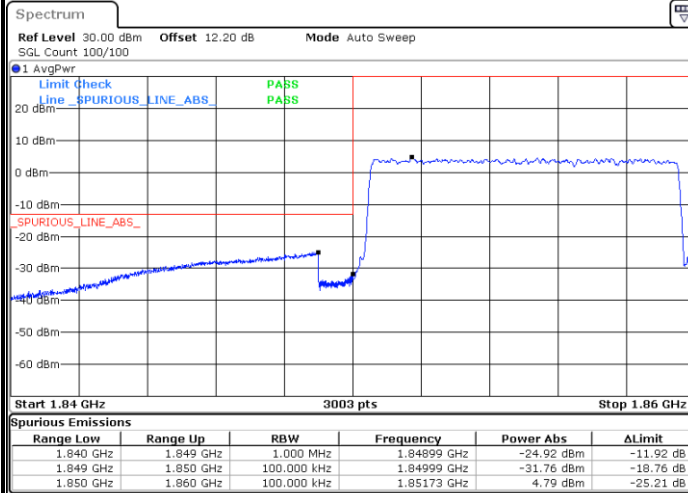
Date: 13.JUN.2024 11:03:25



LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / Full RB

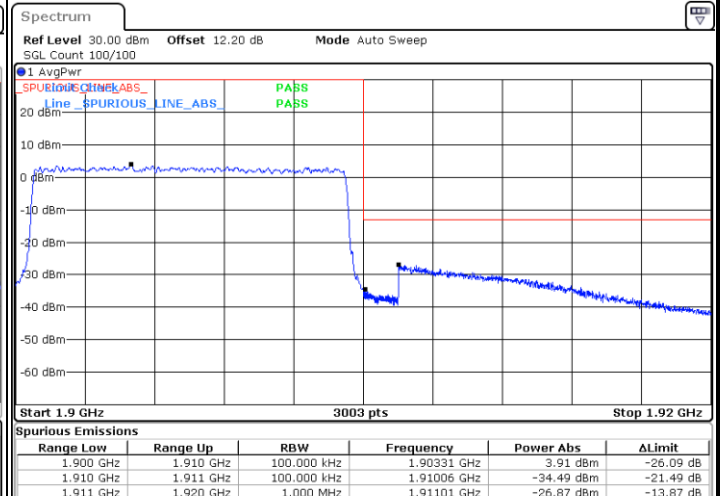
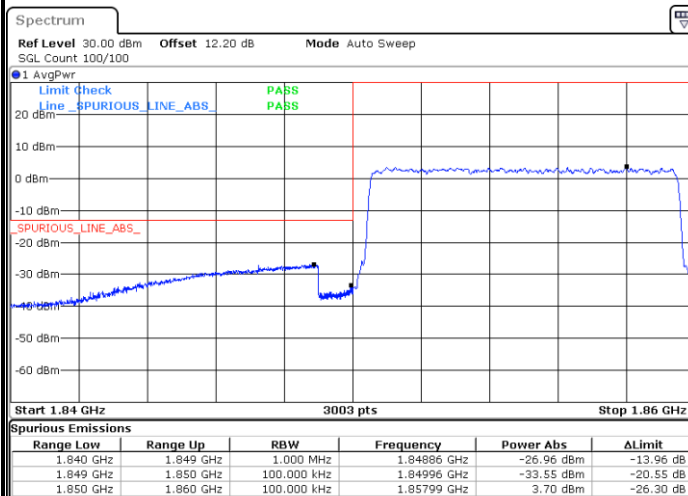
Highest Band Edge / Full RB



LTE Band 2 / 10MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

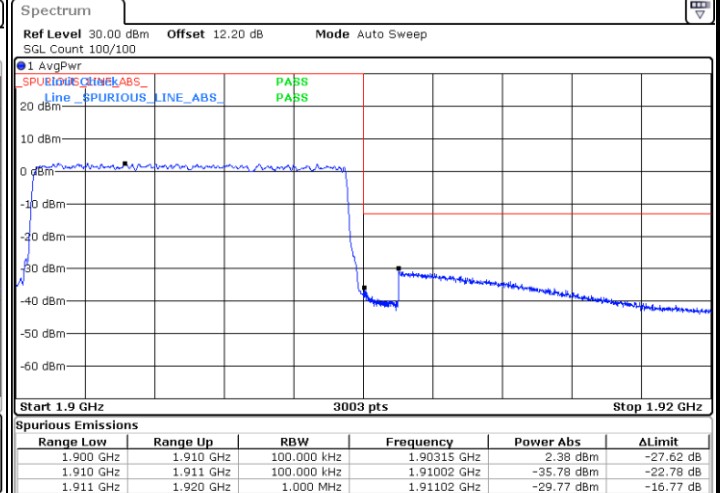
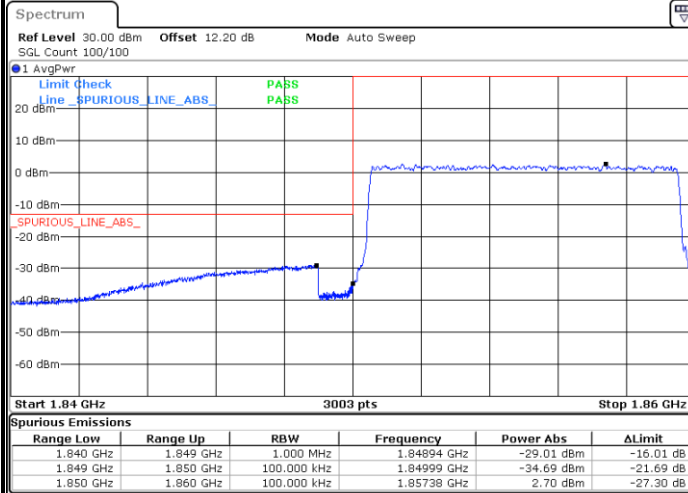




LTE Band 2 / 10MHz / 64QAM

Lowest Band Edge / Full RB

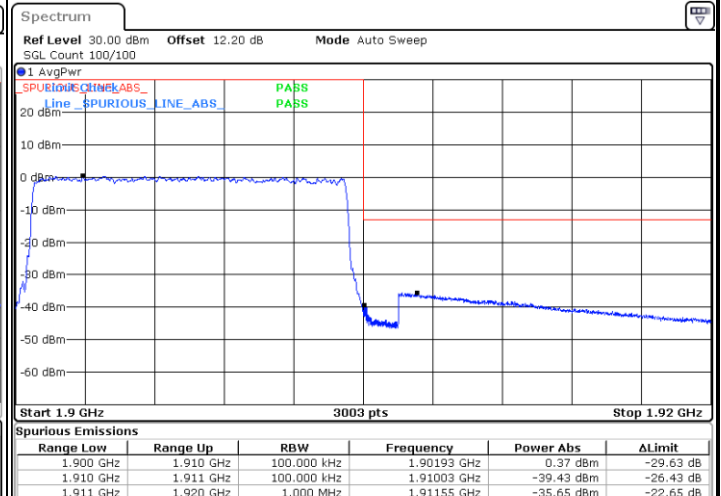
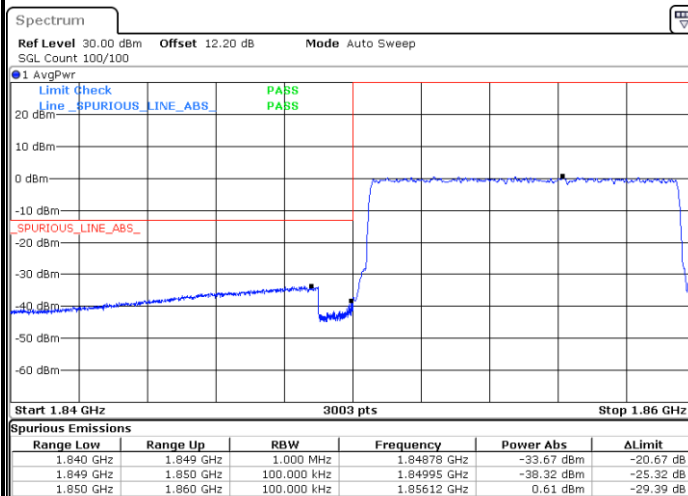
Highest Band Edge / Full RB



LTE Band 2 / 10MHz / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

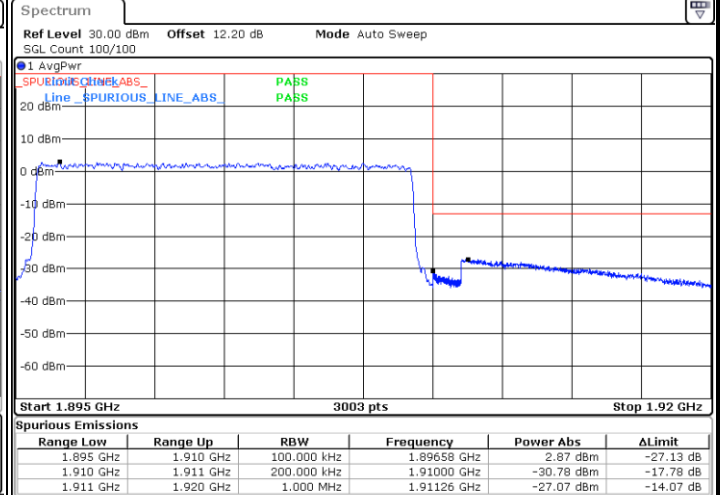
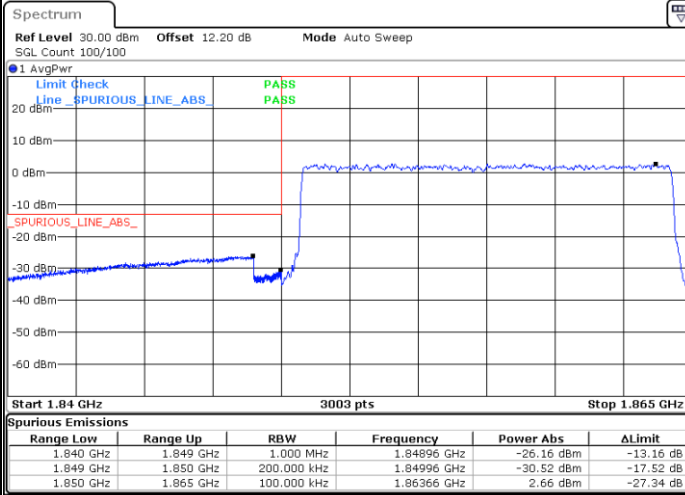




LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / Full RB

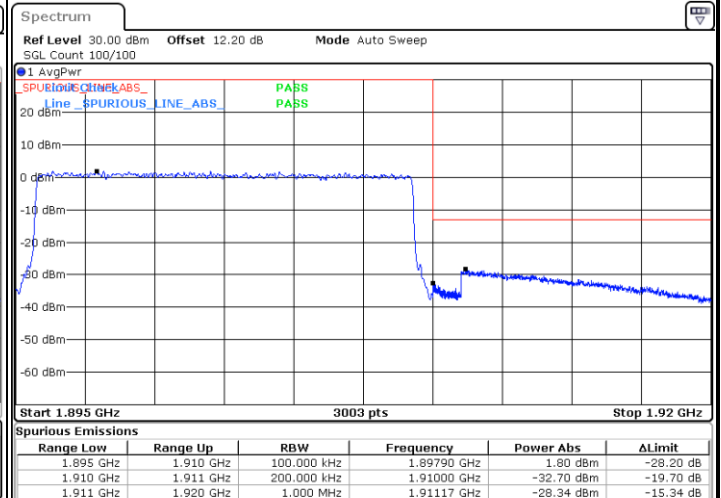
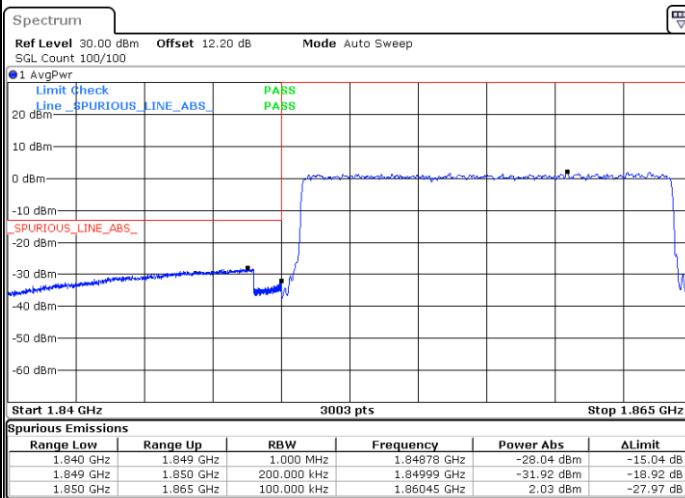
Highest Band Edge / Full RB



LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

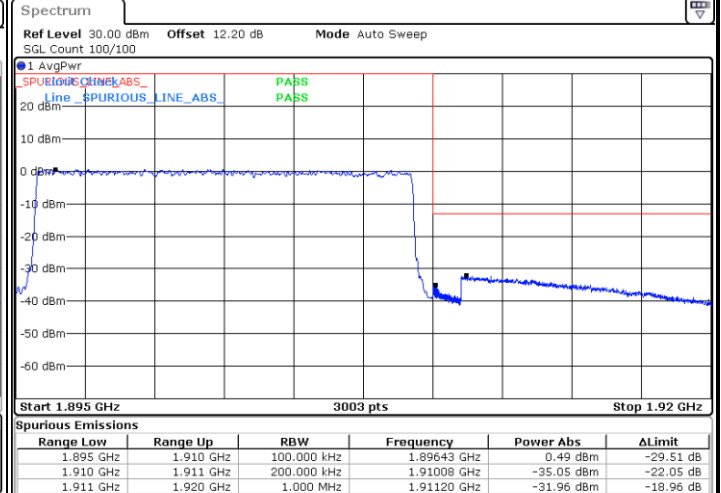
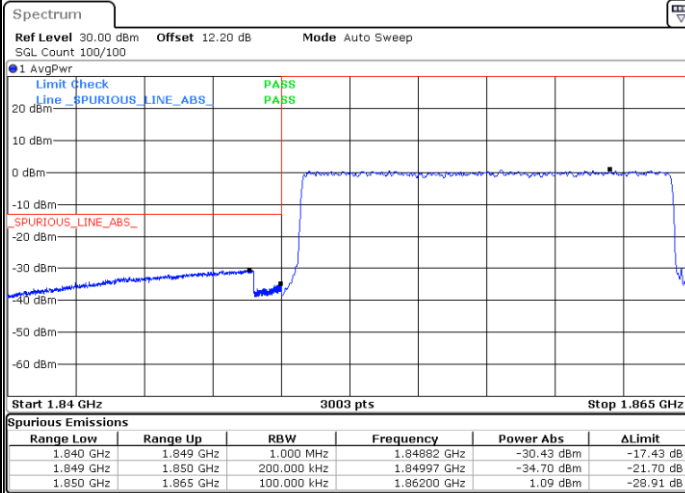




LTE Band 2 / 15MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



LTE Band 2 / 15MHz / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

