FCC RF Test Report

APPLICANT	:	Motorola Mobility LLC
EQUIPMENT	:	Mobile Cellular Phone
BRAND NAME	:	Motorola
MODEL NAME	:	XT2163-4, XT2163DL
FCC ID	:	IHDT56ZX2
STANDARD	:	47 CFR Part 2, 27(M)
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Jun. 25, 2021 ~ Jul. 14, 2021

We, Sporton International (ShenZhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (ShenZhen) Inc., the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager

ACCREDITED
Cert #5145.01

Sporton International (ShenZhen) Inc.

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People's Republic of China

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APPENDIX A. TEST RESULTS OF CONDUCTED TEST

APPENDIX B. TEST RESULTS OF RADIATED TEST

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG151921C	Rev. 01	Initial issue of report	Jul. 22, 2021

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 7) (Band 38) (Band 41)	EIRP < 2Watt	PASS	-
3.5	N/A	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	§27.53(m)(4)	PASS	-
3.8	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)	< $55+10\log_{10}$(P[Watts])	PASS	-
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)	< $55+10\log_{10}$(P[Watts])	PASS	Under limit 24.04 dB at 10336.360 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Applicant

Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2163-4, XT2163DL
FCC ID	IHDT56ZX2
IMEI Code	Conducted: 352304800015109 Radiation: 352304800015778 for LTE Band 7 352304800015257 for LTE Band 41/41C
HW Version	DVT2
SW Version	RRH31.Q3-36
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz
Rx Frequency	LTE Band 7 : 2620 MHz ~ 2690 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz
Bandwidth	LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	**Bottom Antenna:** LTE Band 7 : 22.77 dBm LTE Band 38 : 22.59 dBm LTE Band 41 : 25.78 dBm LTE Band 41C : 22.69 dBm
Antenna Gain	LTE Band 7/38/41 : -0.95 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Specification of Accessory

Specification of Accessory				
AC Adapter 1	**Brand Name**	Motorola(Aohai)	**Model Name**	MC-101
AC Adapter 2	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-101
AC Adapter 3	**Brand Name**	Motorola(Chenyang)	**Model Name**	MC-101
Battery	**Brand Name**	Motorola(ATL)	**Model Name**	NT40
USB Cable 1	**Brand Name**	Motorola(Saibao)	**Model Name**	SC18C24367
USB Cable 2	**Brand Name**	Motorola(Cabletech)	**Model Name**	SC18C49697
USB Cable 3	**Brand Name**	Motorola(Luxshare)	**Model Name**	SC18C24368

1.7 Maximum EIRP Power and Emission Designator

LTE Band 7		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2502.5 ~ 2567.5	0.1514	4M50G7D	0.1361	4M49W7D
10	2505.0 ~ 2565.0	0.1517	9M05G7D	0.1327	9M03W7D
15	2507.5 ~ 2562.5	0.1510	13M5G7D	0.1327	13M5W7D
20	2510.0 ~ 2560.0	0.1521	17M9G7D	0.1349	17M9W7D
LTE Band 38		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2572.5 ~ 2617.5	0.1426	4M50G7D	0.1175	4M48W7D
10	2575.0 ~ 2615.0	0.1452	9M03G7D	0.1169	9M05W7D
15	2577.5 ~ 2612.5	0.1445	13M5G7D	0.1172	13M5W7D
20	2580.0 ~ 2610.0	0.1459	17M9G7D	0.1247	17M9W7D
LTE Band 41		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2498.5 ~ 2687.5	0.2999	4M50G7D	0.2612	4M48W7D
10	2501.0 ~ 2685.0	0.3034	9M03G7D	0.2636	9M05W7D
15	2503.5 ~ 2682.5	0.3034	13M5G7D	0.2594	13M5W7D
20	2506.0 ~ 2680.0	0.3041	17M9G7D	0.2588	17M9W7D
LTE Band 41 CA		QPSK		16QAM/64QAM	
BW (MHz)		Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10MHz+20MHz		0.1384	28M0G7D	0.1091	27M9W7D
15MHz+15MHz		0.1406	28M6G7D	0.1180	28M8W7D
15MHz+20MHz		0.1400	32M7G7D	0.1099	32M9W7D
20MHz+10MHz		0.1387	28M1G7D	0.1285	28M2W7D
20MHz+15MHz		0.1459	32M9G7D	0.1074	32M8W7D
20MHz+20MHz		0.1493	37M9G7D	0.1081	37M8W7D

Note: All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

1.8 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-SZ	CN1256	421272

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH03-SZ	CN1256	421272

1.9 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24

1.10 Applicable Standards

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

- 47 CFR Part 2, 27(M)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

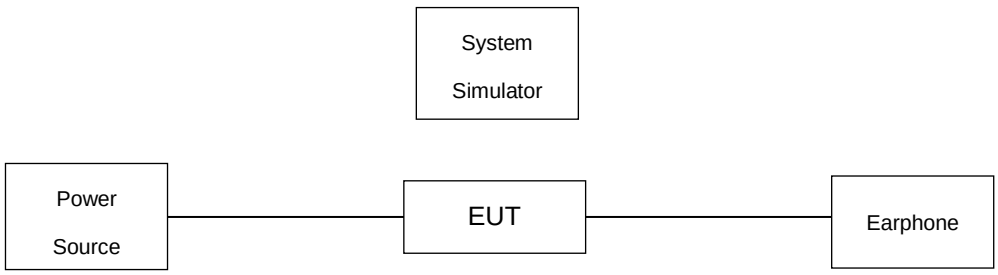
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	7	-	-	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
Peak-to-Average Ratio	7	-	-				v	v	v	v	v		v	v	v	v
	41	-	-				v	v	v	v	v		v	v	v	v
26dB and 99% Bandwidth	7	-	-	v	v	v	v	v	v	v			v	v	v	v
	41	-	-	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	7	-	-	v	v	v	v	v	v	v	v		v	v		v
	41	-	-	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
Frequency Stability	7	-	-		v			v					v		v	
	41	-	-		v			v					v		v	
E.R.P / E.I.R.P	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	7	Worst Case													v	
	41	Worst Case													v	
Note	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. LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38 for RSE testing.															

Test Items	Band	Bandwidth (MHz)										Modulation			RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	41C_CA	v	v	v	v	v			v			v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	41C_CA	v	v	v	v	v			v			v	v	v			v	v	v	v
Conducted Band Edge	41C_CA	v	v	v	v	v			v			v	v	v	v		v	v		v
Conducted Spurious Emission	41C_CA	v	v	v	v	v			v			v	v	v	v			v	v	v
E.I.R.P.	41C_CA	v	v	v	v	v			v			v	v	v	v			v	v	v
Radiated Spurious Emission	41C_CA	Worst Case																	v	
Note	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.																			

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

The EUT has been configuration operated in a manner tended to maximize its emission characteristics in a typical application.

2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	MOTO	S88731AA1	N/A	N/A	Unshielded, 1.2 m

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 5.0 dB and 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 5.0 + 10 = 15.0 (dB)

2.5 Frequency List of Low/Middle/High Channels

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 38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	37850	38000	38150
	Frequency	2580	2595	2610
15	Channel	37825	38000	38175
	Frequency	2577.5	2595	2612.5
10	Channel	37800	38000	38200
	Frequency	2575	2595	2615
5	Channel	37775	38000	38225
	Frequency	2572.5	2595	2617.5

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506	2593	2680
15	Channel	39725	40620	41515
	Frequency	2503.5	2593	2682.5
10	Channel	39700	40620	41540
	Frequency	2501	2593	2685
5	Channel	39675	40620	41565
	Frequency	2498.5	2593	2687.5

LTE Band 41C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	39750	40521	41292
		Frequency	2506.0	2583.1	2660.2
	SCC	Channel	39948	40719	41490
		Frequency	2525.8	2602.9	2680.0
20 + 15	PCC	Channel	39750	40546	41341
		Frequency	2506.0	2585.6	2665.1
	SCC	Channel	39921	40717	41512
		Frequency	2523.1	2602.7	2682.2
15 + 20	PCC	Channel	39728	40523	41319
		Frequency	2503.8	2593.3	2662.9
	SCC	Channel	39899	40694	41490
		Frequency	2520.9	2600.4	2680.0
20 + 10	PCC	Channel	39750	40571	41391
		Frequency	2506.0	2588.1	2670.1
	SCC	Channel	39894	40715	41535
		Frequency	2520.4	2602.5	2684.5
10 + 20	PCC	Channel	39705	40526	41346
		Frequency	2501.5	2583.6	2665.6
	SCC	Channel	39849	40670	41490
		Frequency	2515.9	2598.0	2680.0
15 + 15	PCC	Channel	39725	40545	41365
		Frequency	2503.5	2585.5	2667.5
	SCC	Channel	39875	40695	41515
		Frequency	2518.5	2600.5	2682.5

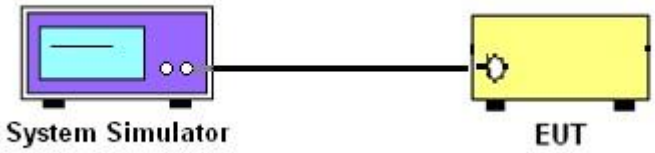
3 Conducted Test Items

3.1 Measuring Instruments

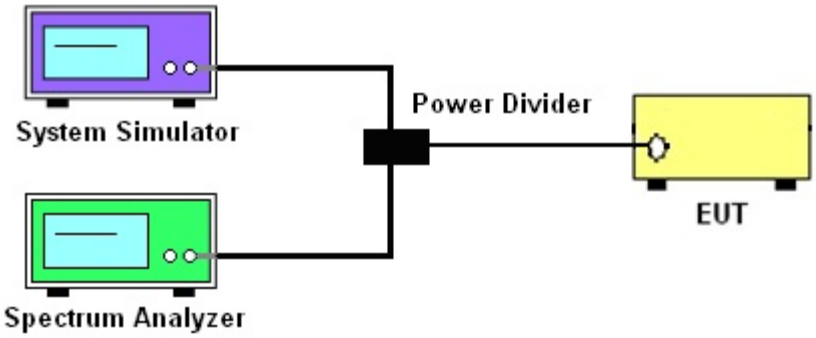
See list of measuring instruments of this test report.

3.2 Test Setup

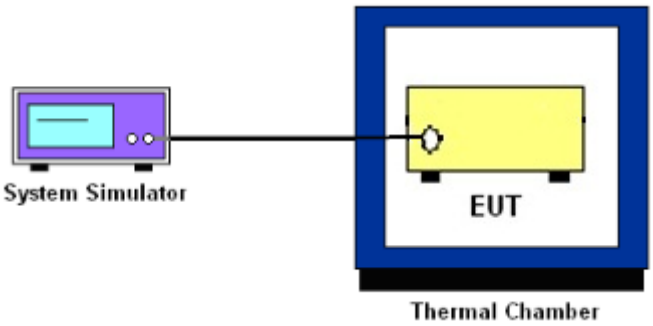
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and EIRP

3.4.1 Description of the Conducted Output Power Measurement and 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 EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 7 and Band 38 and Band 41.

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

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 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.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 Occupied Bandwidth

3.6.1 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.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. 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.
5. Set the detection mode to peak, and the trace mode to max hold.
6. 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)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. 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.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

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 that 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.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

   Example:

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

   = P(W)- [43 + 10log(P)] (dB)

   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
9. For LTE Band 7, 38, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.

3.8 Conducted Spurious Emission

3.8.1 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 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.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
11. For Band 7, 38, 41
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [55+ 10log(P)] (dB)
    = [30+ 10log(P)] (dBm) - [55+ 10log(P)] (dB)
    = -25dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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 ±0.00025% (±2.5ppm) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. 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.
4. 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.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

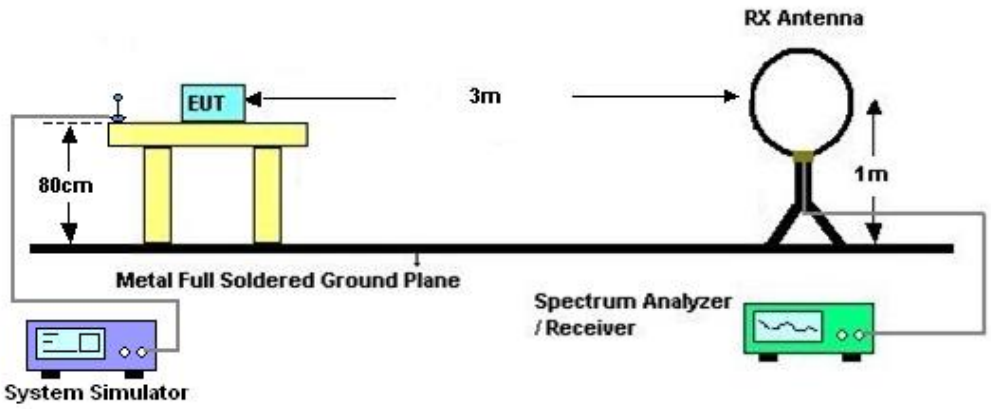
4 Radiated Test Items

4.1 Measuring Instruments

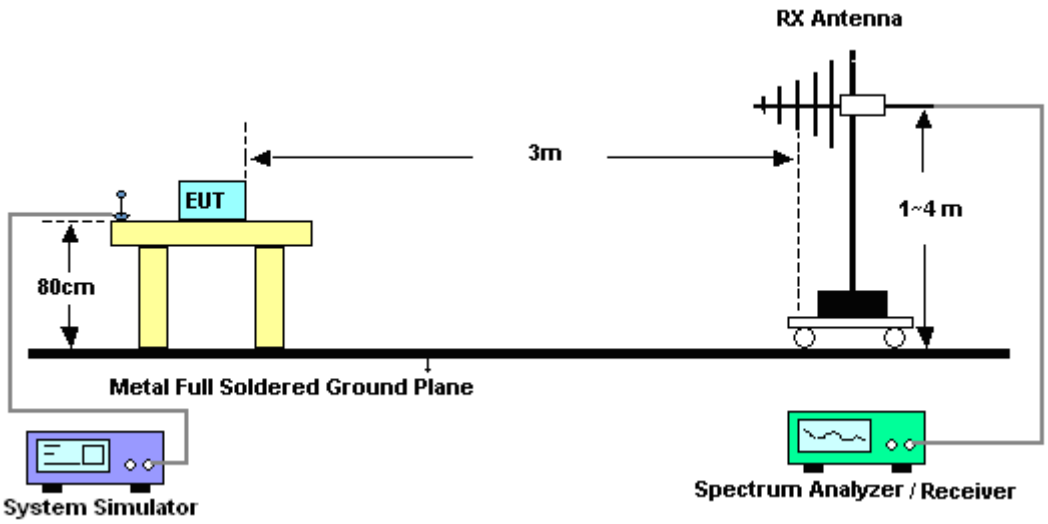
See list of measuring instruments of this test report.

4.2 Test Setup

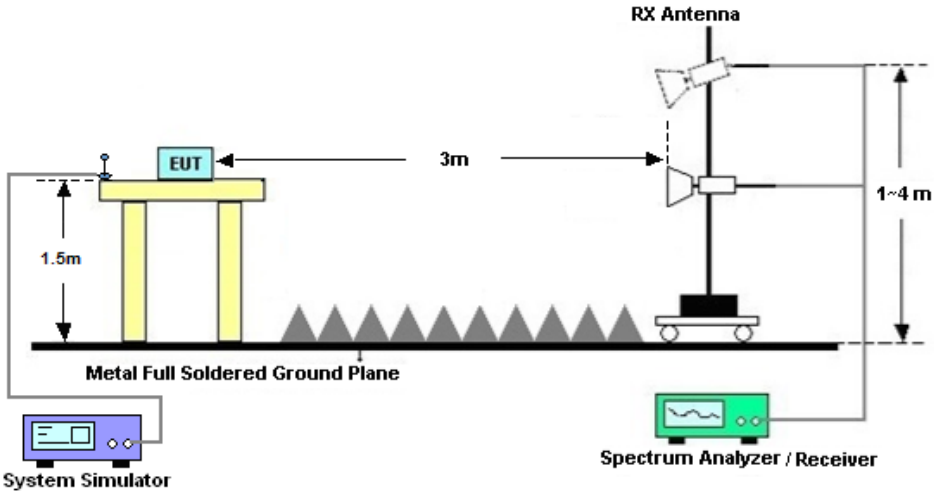
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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.

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. 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 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.

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
13. For Band 7, 38, 41:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 08, 2021	Jun. 25, 2021~ Jul. 07, 2021	Apr. 07, 2022	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 15, 2020	Jun. 25, 2021~ Jul. 07, 2021	Oct. 14, 2021	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 26, 2020	Jun. 25, 2021~ Jul. 07, 2021	Dec. 25, 2021	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 22, 2020	Jun. 25, 2021~ Jul. 07, 2021	Jul. 21, 2021	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 17, 2021	Jul. 14, 2021	Apr. 16, 2022	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	Jul. 14, 2021	Jun. 21, 2022	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 17, 2021	Jul. 14, 2021	Apr. 16, 2022	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Jun. 21, 2021	Jul. 14, 2021	Jun. 20, 2022	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 25, 2021	Jul. 14, 2021	Apr. 24, 2022	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 17, 2020	Jul. 14, 2021	Oct. 16, 2021	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 21, 2020	Jul. 14, 2021	Jul. 20, 2021	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 23, 2021	Jul. 14, 2021	Apr. 22, 2022	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 25, 2020	Jul. 14, 2021	Dec. 24, 2021	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Jul. 14, 2021	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jul. 14, 2021	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jul. 14, 2021	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.0dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.6dB**

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.8dB**

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 7:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	22.77	22.60	22.62
20	QPSK	1	49	22.67	22.52	22.53
20	QPSK	1	99	22.65	22.71	22.64
20	QPSK	50	0	21.66	21.83	21.85
20	QPSK	50	24	21.88	21.85	21.87
20	QPSK	50	50	21.79	21.84	21.85
20	QPSK	100	0	21.81	21.80	21.80
20	16QAM	1	0	21.72	22.12	21.77
20	16QAM	1	49	21.86	21.90	21.76
20	16QAM	1	99	21.83	22.24	22.25
20	16QAM	50	0	20.77	20.88	20.83
20	16QAM	50	24	20.79	20.88	20.95
20	16QAM	50	50	20.74	20.80	20.87
20	16QAM	100	0	20.70	20.84	20.89
20	64QAM	1	0	20.76	20.83	20.93
20	64QAM	1	49	21.17	21.02	21.30
20	64QAM	1	99	20.68	21.03	20.84
20	64QAM	50	0	19.79	19.83	19.93
20	64QAM	50	24	19.85	19.77	19.83
20	64QAM	50	50	19.83	19.83	19.90
20	64QAM	100	0	19.76	19.86	19.93
Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	22.65	22.55	22.62
15	QPSK	1	37	22.62	22.66	22.73
15	QPSK	1	74	22.62	22.65	22.74
15	QPSK	36	0	21.75	21.75	21.86
15	QPSK	36	20	21.77	21.75	21.90
15	QPSK	36	39	21.79	21.78	21.88
15	QPSK	75	0	21.74	21.76	21.87
15	16QAM	1	0	21.90	21.84	21.91
15	16QAM	1	37	22.09	22.13	22.18
15	16QAM	1	74	21.91	21.97	22.03
15	16QAM	36	0	20.74	20.74	20.85
15	16QAM	36	20	20.75	20.75	20.87
15	16QAM	36	39	20.76	20.75	20.86
15	16QAM	75	0	20.74	20.77	20.89
15	64QAM	1	0	20.87	20.81	20.80

15	64QAM	1	37	21.04	21.05	21.18
15	64QAM	1	74	20.83	21.01	20.97
15	64QAM	36	0	19.76	19.75	19.85
15	64QAM	36	20	19.79	19.77	19.89
15	64QAM	36	39	19.80	19.78	19.87
15	64QAM	75	0	19.74	19.75	19.86
Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	22.69	22.64	22.71
10	QPSK	1	25	22.58	22.62	22.76
10	QPSK	1	49	22.63	22.68	22.76
10	QPSK	25	0	21.77	21.78	21.95
10	QPSK	25	12	21.82	21.79	21.92
10	QPSK	25	25	21.84	21.80	21.94
10	QPSK	50	0	21.80	21.80	21.94
10	16QAM	1	0	21.97	21.90	21.98
10	16QAM	1	25	22.05	22.08	22.18
10	16QAM	1	49	21.93	21.96	22.04
10	16QAM	25	0	20.78	20.82	20.93
10	16QAM	25	12	20.83	20.79	20.92
10	16QAM	25	25	20.84	20.82	20.91
10	16QAM	50	0	20.82	20.80	20.97
10	64QAM	1	0	21.02	20.86	20.90
10	64QAM	1	25	21.05	21.00	21.08
10	64QAM	1	49	20.89	20.85	21.04
10	64QAM	25	0	19.79	19.82	19.92
10	64QAM	25	12	19.82	19.79	19.92
10	64QAM	25	25	19.83	19.79	19.89
10	64QAM	50	0	19.80	19.79	19.92
Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	22.65	22.58	22.72
5	QPSK	1	12	22.66	22.62	22.75
5	QPSK	1	24	22.30	22.61	22.73
5	QPSK	12	0	21.78	21.72	21.85
5	QPSK	12	7	21.81	21.77	21.89
5	QPSK	12	13	21.80	21.75	21.90
5	QPSK	25	0	21.78	21.72	21.87
5	16QAM	1	0	21.95	22.02	21.96
5	16QAM	1	12	22.08	22.07	22.29
5	16QAM	1	24	21.88	21.87	21.98
5	16QAM	12	0	20.77	20.72	20.87
5	16QAM	12	7	20.84	20.80	20.89
5	16QAM	12	13	20.83	20.76	20.88
5	16QAM	25	0	20.78	20.74	20.90
5	64QAM	1	0	20.85	20.91	20.93
5	64QAM	1	12	21.08	21.09	21.14
5	64QAM	1	24	20.81	20.81	21.15
5	64QAM	12	0	19.79	19.75	19.91
5	64QAM	12	7	19.83	19.81	19.94

5	64QAM	12	13	19.83	19.77	19.88
5	64QAM	25	0	19.79	19.76	19.88

LTE Band 38:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				37850	38000	38150
Frequency (MHz)				2580	2595	2610
20	QPSK	1	0	22.59	22.55	22.45
20	QPSK	1	49	22.58	22.53	22.51
20	QPSK	1	99	22.50	22.50	22.49
20	QPSK	50	0	21.58	21.62	21.52
20	QPSK	50	24	21.70	21.66	21.59
20	QPSK	50	50	21.58	21.60	21.60
20	QPSK	100	0	21.64	21.63	21.61
20	16QAM	1	0	21.60	21.46	21.52
20	16QAM	1	49	21.91	21.82	21.87
20	16QAM	1	99	21.59	21.52	21.49
20	16QAM	50	0	20.74	20.63	20.68
20	16QAM	50	24	20.69	20.75	20.64
20	16QAM	50	50	20.73	20.69	20.75
20	16QAM	100	0	20.70	20.68	20.70
20	64QAM	1	0	20.33	20.35	20.36
20	64QAM	1	49	20.64	20.60	20.62
20	64QAM	1	99	20.37	20.38	20.36
20	64QAM	50	0	19.71	19.60	19.56
20	64QAM	50	24	19.73	19.68	19.68
20	64QAM	50	50	19.68	19.72	19.69
20	64QAM	100	0	19.70	19.64	19.66
Channel				37825	38000	38175
Frequency (MHz)				2577.5	2595	2612.5
15	QPSK	1	0	22.36	22.37	22.48
15	QPSK	1	37	22.47	22.40	22.55
15	QPSK	1	74	22.44	22.41	22.42
15	QPSK	36	0	21.68	21.63	21.68
15	QPSK	36	20	21.46	21.48	21.41
15	QPSK	36	39	21.51	21.53	21.57
15	QPSK	75	0	21.69	21.58	21.66
15	16QAM	1	0	21.49	21.50	21.64
15	16QAM	1	37	21.57	21.45	21.50
15	16QAM	1	74	21.47	21.48	21.44
15	16QAM	36	0	20.76	20.73	20.75
15	16QAM	36	20	20.50	20.56	20.48
15	16QAM	36	39	20.48	20.45	20.56
15	16QAM	75	0	20.57	20.57	20.59
15	64QAM	1	0	20.55	20.49	20.57
15	64QAM	1	37	20.59	20.59	20.55
15	64QAM	1	74	20.33	20.35	20.34
15	64QAM	36	0	19.53	19.47	19.46
15	64QAM	36	20	19.33	19.38	19.37
15	64QAM	36	39	19.60	19.39	19.57
15	64QAM	75	0	19.64	19.59	19.56

Channel				37800	38000	38200
Frequency (MHz)				2575	2595	2615
10	QPSK	1	0	22.46	22.52	22.57
10	QPSK	1	25	22.51	22.50	22.57
10	QPSK	1	49	22.48	22.50	22.55
10	QPSK	25	0	21.64	21.64	21.70
10	QPSK	25	12	21.58	21.54	21.56
10	QPSK	25	25	21.69	21.55	21.56
10	QPSK	50	0	21.60	21.61	21.68
10	16QAM	1	0	21.57	21.63	21.62
10	16QAM	1	25	21.57	21.53	21.62
10	16QAM	1	49	21.62	21.54	21.63
10	16QAM	25	0	20.78	20.71	20.80
10	16QAM	25	12	20.60	20.54	20.64
10	16QAM	25	25	20.69	20.58	20.69
10	16QAM	50	0	20.70	20.59	20.73
10	64QAM	1	0	20.61	20.63	20.66
10	64QAM	1	25	20.69	20.61	20.61
10	64QAM	1	49	20.34	20.38	20.34
10	64QAM	25	0	19.38	19.34	19.38
10	64QAM	25	12	19.35	19.42	19.38
10	64QAM	25	25	19.68	19.63	19.62
10	64QAM	50	0	19.66	19.62	19.67
Channel				37775	38000	38225
Frequency (MHz)				2572.5	2595	2617.5
5	QPSK	1	0	22.40	22.49	22.36
5	QPSK	1	12	22.49	22.42	22.42
5	QPSK	1	24	22.48	22.44	22.48
5	QPSK	12	0	21.62	21.60	21.65
5	QPSK	12	7	21.43	21.46	21.43
5	QPSK	12	13	21.55	21.57	21.61
5	QPSK	25	0	21.67	21.59	21.64
5	16QAM	1	0	21.59	21.62	21.65
5	16QAM	1	12	21.59	21.59	21.61
5	16QAM	1	24	21.56	21.50	21.59
5	16QAM	12	0	20.78	20.75	20.77
5	16QAM	12	7	20.51	20.52	20.43
5	16QAM	12	13	20.53	20.44	20.53
5	16QAM	25	0	20.57	20.51	20.58
5	64QAM	1	0	20.57	20.61	20.61
5	64QAM	1	12	20.59	20.50	20.62
5	64QAM	1	24	20.32	20.31	20.34
5	64QAM	12	0	19.53	19.49	19.55
5	64QAM	12	7	19.36	19.38	19.37
5	64QAM	12	13	19.63	19.50	19.62
5	64QAM	25	0	19.65	19.64	19.69

LTE Band 41:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40620	41490
Frequency (MHz)				2506	2593	2680
20	QPSK	1	0	25.78	25.71	25.71
20	QPSK	1	49	25.73	25.65	25.67
20	QPSK	1	99	25.57	25.54	25.54
20	QPSK	50	0	24.79	24.74	24.86
20	QPSK	50	24	24.89	24.80	24.87
20	QPSK	50	50	24.88	24.77	24.75
20	QPSK	100	0	24.86	24.82	24.80
20	16QAM	1	0	24.83	24.78	25.02
20	16QAM	1	49	25.08	25.03	25.03
20	16QAM	1	99	24.85	24.81	24.79
20	16QAM	50	0	23.85	23.85	23.92
20	16QAM	50	24	23.97	23.88	23.96
20	16QAM	50	50	23.97	23.89	23.85
20	16QAM	100	0	23.96	23.83	23.91
20	64QAM	1	0	23.77	23.71	23.73
20	64QAM	1	49	24.01	23.93	23.98
20	64QAM	1	99	23.80	23.76	23.76
20	64QAM	50	0	22.88	22.80	22.92
20	64QAM	50	24	23.00	22.89	22.91
20	64QAM	50	50	22.95	22.86	22.85
20	64QAM	100	0	22.94	22.87	22.88
Channel				39725	40620	41515
Frequency (MHz)				2503.5	2593	2682.5
15	QPSK	1	0	25.77	25.65	25.69
15	QPSK	1	37	25.73	25.70	25.75
15	QPSK	1	74	25.74	25.65	25.73
15	QPSK	36	0	24.87	24.80	24.83
15	QPSK	36	20	24.92	24.82	24.85
15	QPSK	36	39	24.92	24.79	24.82
15	QPSK	75	0	24.90	24.76	24.83
15	16QAM	1	0	24.93	24.83	24.91
15	16QAM	1	37	25.09	25.00	25.04
15	16QAM	1	74	24.94	24.85	24.91
15	16QAM	36	0	23.90	23.79	23.86
15	16QAM	36	20	23.96	23.85	23.88
15	16QAM	36	39	23.94	23.81	23.84
15	16QAM	75	0	23.97	23.82	23.90
15	64QAM	1	0	23.88	23.78	23.82
15	64QAM	1	37	24.02	24.40	23.97
15	64QAM	1	74	23.92	23.79	23.82
15	64QAM	36	0	22.90	22.84	22.88
15	64QAM	36	20	23.00	22.92	22.91
15	64QAM	36	39	22.98	22.82	22.89
15	64QAM	75	0	22.96	22.83	22.89

Channel				39700	40620	41540
Frequency (MHz)				2501	2593	2685
10	QPSK	1	0	25.71	25.68	25.74
10	QPSK	1	25	25.72	25.70	25.77
10	QPSK	1	49	25.76	25.69	25.72
10	QPSK	25	0	24.90	24.86	24.95
10	QPSK	25	12	24.93	24.85	24.89
10	QPSK	25	25	24.98	24.84	24.90
10	QPSK	50	0	24.96	24.87	24.94
10	16QAM	1	0	25.02	24.96	24.99
10	16QAM	1	25	25.16	25.07	25.12
10	16QAM	1	49	25.03	24.94	25.01
10	16QAM	25	0	24.03	23.96	24.05
10	16QAM	25	12	24.05	23.97	24.02
10	16QAM	25	25	24.08	23.94	23.99
10	16QAM	50	0	24.06	23.96	24.02
10	64QAM	1	0	23.95	23.87	23.93
10	64QAM	1	25	24.11	24.03	24.08
10	64QAM	1	49	23.95	23.90	23.94
10	64QAM	25	0	23.06	23.02	23.09
10	64QAM	25	12	23.14	23.01	23.06
10	64QAM	25	25	23.18	23.01	23.04
10	64QAM	50	0	23.05	22.96	22.99
Channel				39675	40620	41565
Frequency (MHz)				2498.5	2593	2687.5
5	QPSK	1	0	25.68	25.56	25.67
5	QPSK	1	12	25.70	25.65	25.72
5	QPSK	1	24	25.69	25.58	25.63
5	QPSK	12	0	24.89	24.81	24.89
5	QPSK	12	7	24.98	24.87	24.94
5	QPSK	12	13	25.02	24.84	24.94
5	QPSK	25	0	24.91	24.78	24.89
5	16QAM	1	0	24.91	24.84	24.90
5	16QAM	1	12	25.12	24.99	25.08
5	16QAM	1	24	24.95	24.84	24.91
5	16QAM	12	0	23.93	23.88	23.94
5	16QAM	12	7	24.08	23.98	24.01
5	16QAM	12	13	24.05	23.94	23.99
5	16QAM	25	0	23.98	23.90	23.99
5	64QAM	1	0	23.88	23.82	23.88
5	64QAM	1	12	24.03	23.95	24.04
5	64QAM	1	24	24.39	23.80	23.85
5	64QAM	12	0	22.97	22.89	22.95
5	64QAM	12	7	23.09	22.94	23.00
5	64QAM	12	13	23.04	22.90	22.96
5	64QAM	25	0	23.03	22.93	23.01

CA Power

CA_41C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
39750	39948	QPSK	100	0	100	0	200	≤2	21.30
			1	0	1	99	2	≤8.5	22.22
			1	99	1	0	2	≤0	22.06
		16QAM	100	0	100	0	200	≤3	20.42
			1	0	1	99	2	≤8.5	21.29
			1	99	1	0	2	≤1	21.13
		64QAM	100	0	100	0	200	≤3	19.36
			1	0	1	99	2	≤8.5	20.19
			1	99	1	0	2	≤3	20.13
40521	40719	QPSK	100	0	100	0	200	≤2	21.11
			1	0	1	99	2	≤8.5	22.69
			1	99	1	0	2	≤0	21.88
		16QAM	100	0	100	0	200	≤3	20.18
			1	0	1	99	2	≤8.5	21.12
			1	99	1	0	2	≤1	20.95
		64QAM	100	0	100	0	200	≤3	19.10
			1	0	1	99	2	≤8.5	20.08
			1	99	1	0	2	≤3	19.89
41292	41490	QPSK	100	0	100	0	200	≤2	21.13
			1	0	1	99	2	≤8.5	22.07
			1	99	1	0	2	≤0	21.74
		16QAM	100	0	100	0	200	≤3	19.97
			1	0	1	99	2	≤8.5	21.09
			1	99	1	0	2	≤1	20.95
		64QAM	100	0	100	0	200	≤3	19.05
			1	0	1	99	2	≤8.5	20.06
			1	99	1	0	2	≤3	19.84

CA_41C									
Combination 20MHz+15MHz (100RB+75RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
39750	39921	QPSK	100	0	75	0	175	≤2	21.25
			1	0	1	74	2	≤8.5	22.19
			1	99	1	0	2	≤0	22.03
		16QAM	100	0	75	0	175	≤3	20.37
			1	0	1	74	2	≤8.5	21.26
			1	99	1	0	2	≤1	21.09
		64QAM	100	0	75	0	175	≤3	19.32
			1	0	1	74	2	≤8.5	20.20
			1	99	1	0	2	≤3	20.04
40546	40717	QPSK	100	0	75	0	175	≤2	21.11
			1	0	1	74	2	≤8.5	22.07
			1	99	1	0	2	≤0	21.86
		16QAM	100	0	75	0	175	≤3	20.17
			1	0	1	74	2	≤8.5	21.11
			1	99	1	0	2	≤1	20.91
		64QAM	100	0	75	0	175	≤3	19.13
			1	0	1	74	2	≤8.5	20.02
			1	99	1	0	2	≤3	20.63
41341	41512	QPSK	100	0	75	0	175	≤2	21.16
			1	0	1	74	2	≤8.5	13.70
			1	99	1	0	2	≤0	22.59
		16QAM	100	0	75	0	175	≤3	19.24
			1	0	1	74	2	≤8.5	13.74
			1	99	1	0	2	≤1	21.22
		64QAM	100	0	75	0	175	≤3	19.14
			1	0	1	74	2	≤8.5	13.71
			1	99	1	0	2	≤3	19.07

Combination 15MHz+20MHz (75RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
39728	39899	QPSK	75	0	100	0	175	≤2	20.27
			1	0	1	99	2	≤8.5	13.60
			1	74	1	0	2	≤0	22.41
		16QAM	75	0	100	0	175	≤3	19.26
			1	0	1	99	2	≤8.5	13.52
			1	74	1	0	2	≤1	21.36
		64QAM	75	0	100	0	175	≤3	19.23
			1	0	1	99	2	≤8.5	13.46
			1	74	1	0	2	≤3	19.31
40523	40694	QPSK	75	0	100	0	175	≤2	20.25
			1	0	1	99	2	≤8.5	13.69
			1	74	1	0	2	≤0	22.17
		16QAM	75	0	100	0	175	≤3	19.27
			1	0	1	99	2	≤8.5	13.26
			1	74	1	0	2	≤1	21.26
		64QAM	75	0	100	0	175	≤3	19.23
			1	0	1	99	2	≤8.5	13.38
			1	74	1	0	2	≤3	21.03
41319	41490	QPSK	75	0	100	0	175	≤2	20.24
			1	0	1	99	2	≤8.5	13.70
			1	74	1	0	2	≤0	22.18
		16QAM	75	0	100	0	175	≤3	19.28
			1	0	1	99	2	≤8.5	13.74
			1	74	1	0	2	≤1	21.28
		64QAM	75	0	100	0	175	≤3	19.24
			1	0	1	99	2	≤8.5	14.07
			1	74	1	0	2	≤3	19.13

Combination 20MHz+10MHz (100RB+50RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
39750	39894	QPSK	100	0	50	0	175	≤2	20.24
			1	0	1	49	2	≤8.5	13.57
			1	99	1	0	2	≤0	22.37
		16QAM	100	0	50	0	175	≤3	19.32
			1	0	1	49	2	≤8.5	13.54
			1	99	1	0	2	≤1	21.34
		64QAM	100	0	50	0	175	≤3	19.31
			1	0	1	49	2	≤8.5	13.61
			1	99	1	0	2	≤3	19.23
40571	40715	QPSK	100	0	50	0	175	≤2	20.15
			1	0	1	49	2	≤8.5	13.69
			1	99	1	0	2	≤0	22.12
		16QAM	100	0	50	0	175	≤3	19.12
			1	0	1	49	2	≤8.5	13.62
			1	99	1	0	2	≤1	22.04
		64QAM	100	0	50	0	175	≤3	19.11
			1	0	1	49	2	≤8.5	13.70
			1	99	1	0	2	≤3	19.03
41391	41535	QPSK	100	0	50	0	175	≤2	20.19
			1	0	1	49	2	≤8.5	13.56
			1	99	1	0	2	≤0	21.12
		16QAM	100	0	50	0	175	≤3	19.16
			1	0	1	49	2	≤8.5	13.63
			1	99	1	0	2	≤1	21.09
		64QAM	100	0	50	0	175	≤3	19.17
			1	0	1	49	2	≤8.5	13.72
			1	99	1	0	2	≤3	19.03

Combination 10MHz+20MHz (50RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
39705	39849	QPSK	50	0	100	0	150	≤2	20.23
			1	0	1	99	2	≤8.5	13.61
			1	49	1	0	2	≤0	22.36
		16QAM	50	0	100	0	150	≤3	19.25
			1	0	1	99	2	≤8.5	13.59
			1	49	1	0	2	≤1	21.33
		64QAM	50	0	100	0	150	≤3	19.20
			1	0	1	99	2	≤8.5	13.67
			1	49	1	0	2	≤3	19.27
40526	40670	QPSK	50	0	100	0	150	≤2	20.21
			1	0	1	99	2	≤8.5	13.46
			1	49	1	0	2	≤0	22.17
		16QAM	50	0	100	0	150	≤3	19.24
			1	0	1	99	2	≤8.5	13.35
			1	49	1	0	2	≤1	21.11
		64QAM	50	0	100	0	150	≤3	19.24
			1	0	1	99	2	≤8.5	13.73
			1	49	1	0	2	≤3	19.10
41346	41490	QPSK	50	0	100	0	150	≤2	20.36
			1	0	1	99	2	≤8.5	13.67
			1	49	1	0	2	≤0	22.06
		16QAM	50	0	100	0	150	≤3	19.86
			1	0	1	99	2	≤8.5	13.78
			1	49	1	0	2	≤1	21.24
		64QAM	50	0	100	0	150	≤3	19.58
			1	0	1	99	2	≤8.5	13.65
			1	49	1	0	2	≤3	19.36

Combination 15MHz+15MHz (75RB+75RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
39725	39875	QPSK	75	0	75	0	150	≤2	20.46
			1	0	1	74	2	≤8.5	13.83
			1	74	1	0	2	≤0	22.23
		16QAM	75	0	75	0	150	≤3	19.57
			1	0	1	74	2	≤8.5	13.94
			1	74	1	0	2	≤1	21.67
		64QAM	75	0	75	0	150	≤3	19.52
			1	0	1	74	2	≤8.5	13.86
			1	74	1	0	2	≤3	19.51
40545	40695	QPSK	75	0	75	0	150	≤2	20.43
			1	0	1	74	2	≤8.5	13.98
			1	74	1	0	2	≤0	22.40
		16QAM	75	0	75	0	150	≤3	19.43
			1	0	1	74	2	≤8.5	14.08
			1	74	1	0	2	≤1	21.46
		64QAM	75	0	75	0	150	≤3	19.42
			1	0	1	74	2	≤8.5	13.99
			1	74	1	0	2	≤3	19.30
41365	41515	QPSK	75	0	75	0	150	≤2	20.51
			1	0	1	74	2	≤8.5	14.09
			1	74	1	0	2	≤0	22.43
		16QAM	75	0	75	0	150	≤3	19.58
			1	0	1	74	2	≤8.5	14.16
			1	74	1	0	2	≤1	21.58
		64QAM	75	0	75	0	150	≤3	19.59
			1	0	1	74	2	≤8.5	14.10
			1	74	1	0	2	≤3	19.44

ERP/EIRP

LTE Band 7 (GT - LC = -0.95 dB) QPSK			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	22.66	22.62	22.75
Conducted Power (Watts)	0.1845	0.1828	0.1884
EIRP(dBm)	21.71	21.67	21.80
EIRP(Watts)	0.1483	0.1469	0.1514

LTE Band 7 (GT - LC = -0.95 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
Conducted Power (dBm)	22.63	22.68	22.76	22.62	22.65	22.74	22.77	22.60	22.62
Conducted Power (Watts)	0.1832	0.1854	0.1888	0.1828	0.1841	0.1879	0.1892	0.1820	0.1828
EIRP(dBm)	21.68	21.73	21.81	21.67	21.70	21.79	21.82	21.65	21.67
EIRP(Watts)	0.1472	0.1489	0.1517	0.1469	0.1479	0.1510	0.1521	0.1462	0.1469

LTE Band 7 (GT - LC = -0.95 dB) 16QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	22.08	22.07	22.29
Conducted Power (Watts)	0.1614	0.1611	0.1694
EIRP(dBm)	21.13	21.12	21.34
EIRP(Watts)	0.1297	0.1294	0.1361

LTE Band 7 (GT - LC = -0.95 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
Conducted Power (dBm)	22.05	22.08	22.18	22.09	22.13	22.18	21.83	22.24	22.25
Conducted Power (Watts)	0.1603	0.1614	0.1652	0.1618	0.1633	0.1652	0.1524	0.1675	0.1679
EIRP(dBm)	21.10	21.13	21.23	21.14	21.18	21.23	20.88	21.29	21.30
EIRP(Watts)	0.1288	0.1297	0.1327	0.1300	0.1312	0.1327	0.1225	0.1346	0.1349

LTE Band 7 (GT - LC = -0.95 dB) 64QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	20.81	20.81	21.15
Conducted Power (Watts)	0.1205	0.1205	0.1303
EIRP(dBm)	19.86	19.86	20.20
EIRP(Watts)	0.0968	0.0968	0.1047

LTE Band 7 (GT - LC = -0.95 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
Conducted Power (dBm)	21.05	21.00	21.08	21.04	21.05	21.18	21.17	21.02	21.30
Conducted Power (Watts)	0.1274	0.1259	0.1282	0.1271	0.1274	0.1312	0.1309	0.1265	0.1349
EIRP(dBm)	20.10	20.05	20.13	20.09	20.10	20.23	20.22	20.07	20.35
EIRP(Watts)	0.1023	0.1012	0.1030	0.1021	0.1023	0.1054	0.1052	0.1016	0.1084

LTE Band 38 (GT - LC = -0.95 dB) QPSK			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency (MHz)	2572.5	2595	2617.5
Conducted Power (dBm)	22.40	22.49	22.36
Conducted Power (Watts)	0.1738	0.1774	0.1722
EIRP(dBm)	21.45	21.54	21.41
EIRP(Watts)	0.1396	0.1426	0.1384

LTE Band 38 (GT - LC = -0.95 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	37800	38000	38200	37825	38000	38175	37850	38000	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
Conducted Power (dBm)	22.51	22.50	22.57	22.47	22.40	22.55	22.59	22.55	22.45
Conducted Power (Watts)	0.1782	0.1778	0.1807	0.1766	0.1738	0.1799	0.1816	0.1799	0.1758
EIRP(dBm)	21.56	21.55	21.62	21.52	21.45	21.60	21.64	21.60	21.50
EIRP(Watts)	0.1432	0.1429	0.1452	0.1419	0.1396	0.1445	0.1459	0.1445	0.1413

LTE Band 38 (GT - LC = -0.95 dB) 16QAM			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency (MHz)	2572.5	2595	2617.5
Conducted Power (dBm)	21.59	21.62	21.65
Conducted Power (Watts)	0.1442	0.1452	0.1462
EIRP(dBm)	20.64	20.67	20.70
EIRP(Watts)	0.1159	0.1167	0.1175

LTE Band 38 (GT - LC = -0.95 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	37800	38000	38200	37825	38000	38175	37850	38000	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
Conducted Power (dBm)	21.57	21.63	21.62	21.49	21.50	21.64	21.91	21.82	21.87
Conducted Power (Watts)	0.1435	0.1455	0.1452	0.1409	0.1413	0.1459	0.1552	0.1521	0.1538
EIRP(dBm)	20.62	20.68	20.67	20.54	20.55	20.69	20.96	20.87	20.92
EIRP(Watts)	0.1153	0.1169	0.1167	0.1132	0.1135	0.1172	0.1247	0.1222	0.1236

LTE Band 38 (GT - LC = -0.95 dB) 64QAM			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency (MHz)	2572.5	2595	2617.5
Conducted Power (dBm)	20.59	20.50	20.62
Conducted Power (Watts)	0.1146	0.1122	0.1153
EIRP(dBm)	19.64	19.55	19.67
EIRP(Watts)	0.0920	0.0902	0.0927

LTE Band 38 (GT - LC = -0.95 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	37800	38000	38200	37825	38000	38175	37850	38000	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
Conducted Power (dBm)	20.69	20.61	20.61	20.59	20.59	20.55	20.64	20.60	20.62
Conducted Power (Watts)	0.1172	0.1151	0.1151	0.1146	0.1146	0.1135	0.1159	0.1148	0.1153
EIRP(dBm)	19.74	19.66	19.66	19.64	19.64	19.60	19.69	19.65	19.67
EIRP(Watts)	0.0942	0.0925	0.0925	0.0920	0.0920	0.0912	0.0931	0.0923	0.0927

LTE Band 41 (G_T - L_C = -0.95 dB) QPSK									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
Conducted Power (dBm)	25.70	25.65	25.72	25.72	25.70	25.77	25.77	25.65	25.69
Conducted Power (Watts)	0.3715	0.3673	0.3733	0.3733	0.3715	0.3776	0.3776	0.3673	0.3707
EIRP(dBm)	24.75	24.70	24.77	24.77	24.75	24.82	24.82	24.70	24.74
EIRP(Watts)	0.2985	0.2951	0.2999	0.2999	0.2985	0.3034	0.3034	0.2951	0.2979

LTE Band 41 (G_T - L_C = -0.95 dB) QPSK			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency (MHz)	2506	2593	2680
Conducted Power (dBm)	25.78	25.71	25.71
Conducted Power (Watts)	0.3784	0.3724	0.3724
EIRP(dBm)	24.83	24.76	24.76
EIRP(Watts)	0.3041	0.2992	0.2992

LTE Band 41 (G_T - L_C = -0.95 dB) 16QAM									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
Conducted Power (dBm)	25.12	24.99	25.08	25.16	25.07	25.12	25.09	25.00	25.04
Conducted Power (Watts)	0.3251	0.3155	0.3221	0.3281	0.3214	0.3251	0.3228	0.3162	0.3192
EIRP(dBm)	24.17	24.04	24.13	24.21	24.12	24.17	24.14	24.05	24.09
EIRP(Watts)	0.2612	0.2535	0.2588	0.2636	0.2582	0.2612	0.2594	0.2541	0.2564

LTE Band 41 (G_T - L_C = -0.95 dB) 16QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency (MHz)	2506	2593	2680
Conducted Power (dBm)	25.08	25.03	25.03
Conducted Power (Watts)	0.3221	0.3184	0.3184
EIRP(dBm)	24.13	24.08	24.08
EIRP(Watts)	0.2588	0.2559	0.2559

LTE Band 41 (G_T - L_C = -0.95 dB) 64QAM									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
Conducted Power (dBm)	24.39	23.80	23.85	24.11	24.03	24.08	24.02	24.40	23.97
Conducted Power (Watts)	0.2748	0.2399	0.2427	0.2576	0.2529	0.2559	0.2523	0.2754	0.2495
EIRP(dBm)	23.44	22.85	22.90	23.16	23.08	23.13	23.07	23.45	23.02
EIRP(Watts)	0.2208	0.1928	0.1950	0.2070	0.2032	0.2056	0.2028	0.2213	0.2004

LTE Band 41 (G_T - L_C = -0.95 dB) 64QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency (MHz)	2506	2593	2680
Conducted Power (dBm)	24.01	23.93	23.98
Conducted Power (Watts)	0.2518	0.2472	0.2500
EIRP(dBm)	23.06	22.98	23.03
EIRP(Watts)	0.2023	0.1986	0.2009

CA EIRP

LTE Band 41 CA (GT - LC = -0.95 dB) QPSK			
Bandwidth	15M + 15M		
Channel PCC	39725	40545	41365
	(Low)	(Mid)	(High)
Channel SCC	39875	40695	41515
	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.23	22.40	22.43
Conducted Power (Watts)	0.1671	0.1738	0.1750
EIRP(dBm)	21.28	21.45	21.48
EIRP(Watts)	0.1343	0.1396	0.1406

LTE Band 41 CA (GT - LC = -0.95 dB) QPSK									
Bandwidth	10M + 20M			20M + 10M			15M + 20M		
Channel PCC	39705	40526	41346	39750	40571	41391	39728	40523	41319
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39849	40670	41490	39894	40715	41535	39899	40694	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.36	22.17	22.06	22.37	22.12	21.12	22.41	22.17	22.18
Conducted Power (Watts)	0.1722	0.1648	0.1607	0.1726	0.1629	0.1294	0.1742	0.1648	0.1652
EIRP(dBm)	21.41	21.22	21.11	21.42	21.17	20.17	21.46	21.22	21.23
EIRP(Watts)	0.1384	0.1324	0.1291	0.1387	0.1309	0.1040	0.1400	0.1324	0.1327

LTE Band 41 CA (GT - LC = -0.95 dB) QPSK						
Bandwidth	20M+15M			20M+20M		
Channel PCC	39750	40546	41341	39750	40521	41292
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39921	40717	41512	39948	40719	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.19	22.07	22.59	22.22	22.69	22.07
Conducted Power (Watts)	0.1656	0.1611	0.1816	0.1667	0.1858	0.1611
EIRP(dBm)	21.24	21.12	21.64	21.27	21.74	21.12
EIRP(Watts)	0.1330	0.1294	0.1459	0.1340	0.1493	0.1294

LTE Band 41 CA (GT - LC = -0.95 dB) 16QAM			
Bandwidth	15M + 15M		
Channel PCC	39725	40545	41365
	(Low)	(Mid)	(High)
Channel SCC	39875	40695	41515
	(Low)	(Mid)	(High)
Conducted Power (dBm)	21.67	21.46	21.58
Conducted Power (Watts)	0.1469	0.1400	0.1439
EIRP(dBm)	20.72	20.51	20.63
EIRP(Watts)	0.1180	0.1125	0.1156

LTE Band 41 CA (GT - LC = -0.95 dB) 16QAM									
Bandwidth	10M + 20M			20M + 10M			15M + 20M		
Channel PCC	39705	40526	41346	39750	40571	41391	39728	40523	41319
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39849	40670	41490	39894	40715	41535	39899	40694	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	21.33	21.11	21.24	21.34	22.04	21.09	21.36	21.26	21.28
Conducted Power (Watts)	0.1358	0.1291	0.1330	0.1361	0.1600	0.1285	0.1368	0.1337	0.1343
EIRP(dBm)	20.38	20.16	20.29	20.39	21.09	20.14	20.41	20.31	20.33
EIRP(Watts)	0.1091	0.1038	0.1069	0.1094	0.1285	0.1033	0.1099	0.1074	0.1079

LTE Band 41 CA (GT - LC = -0.95 dB) 16QAM						
Bandwidth	20M+15M			20M+20M		
Channel PCC	39750	40546	41341	39750	40521	41292
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39921	40717	41512	39948	40719	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	21.26	21.11	21.22	21.29	21.12	21.09
Conducted Power (Watts)	0.1337	0.1291	0.1324	0.1346	0.1294	0.1285
EIRP(dBm)	20.31	20.16	20.27	20.34	20.17	20.14
EIRP(Watts)	0.1074	0.1038	0.1064	0.1081	0.1040	0.1033

LTE Band 41 CA (GT - LC = -0.95 dB) 64QAM			
Bandwidth	15M + 15M		
Channel PCC	39725	40545	41365
	(Low)	(Mid)	(High)
Channel SCC	39875	40695	41515
	(Low)	(Mid)	(High)
Conducted Power (dBm)	19.52	19.42	19.59
Conducted Power (Watts)	0.0895	0.0875	0.0910
EIRP(dBm)	18.57	18.47	18.64
EIRP(Watts)	0.0719	0.0703	0.0731

LTE Band 41 CA (GT - LC = -0.95 dB) 64QAM									
Bandwidth	10M + 20M			20M + 10M			15M + 20M		
Channel PCC	39705	40526	41346	39750	40571	41391	39728	40523	41319
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39849	40670	41490	39894	40715	41535	39899	40694	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	19.27	21.11	19.24	19.31	19.11	19.17	19.31	21.03	19.24
Conducted Power (Watts)	0.0845	0.1291	0.0839	0.0853	0.0815	0.0826	0.0853	0.1268	0.0839
EIRP(dBm)	18.32	20.16	18.29	18.36	18.16	18.22	18.36	20.08	18.29
EIRP(Watts)	0.0679	0.1038	0.0675	0.0685	0.0655	0.0664	0.0685	0.1019	0.0675

LTE Band 41 CA (GT - LC = -0.95 dB) 64QAM						
Bandwidth	**20M+15M**			**20M+20M**		
Channel PCC	**39750**	**40546**	**41341**	**39750**	**40521**	**41292**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Channel SCC	**39921**	**40717**	**41512**	**39948**	**40719**	**41490**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Conducted Power (dBm)	20.20	20.63	19.14	20.19	20.08	20.06
Conducted Power (Watts)	0.1047	0.1156	0.0820	0.1045	0.1019	0.1014
EIRP(dBm)	19.25	19.68	18.19	19.24	19.13	19.11
EIRP(Watts)	0.0841	0.0929	0.0659	0.0839	0.0818	0.0815

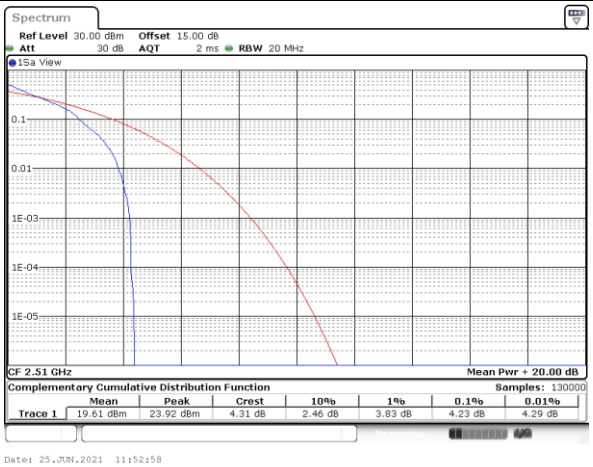
LTE Band 7

Peak-to-Average Ratio

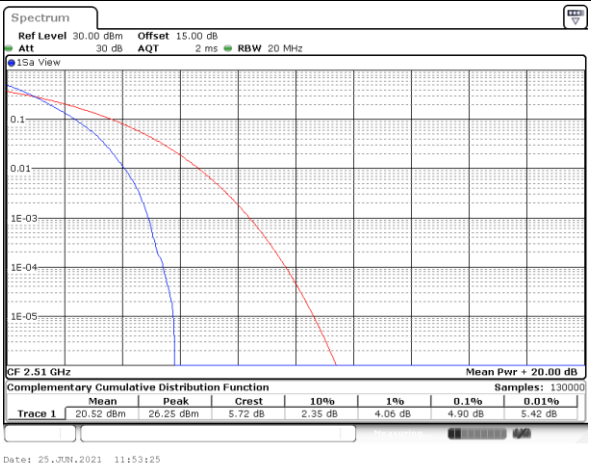
Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.23	4.90	4.90	5.94	PASS
Middle CH	4.55	5.16	5.39	6.06	
Highest CH	4.41	4.93	5.28	5.80	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.54	6.29	-	-	PASS
Middle CH	4.96	6.29	-	-	
Highest CH	4.70	6.29	-	-	

LTE Band 7 / 20MHz / QPSK

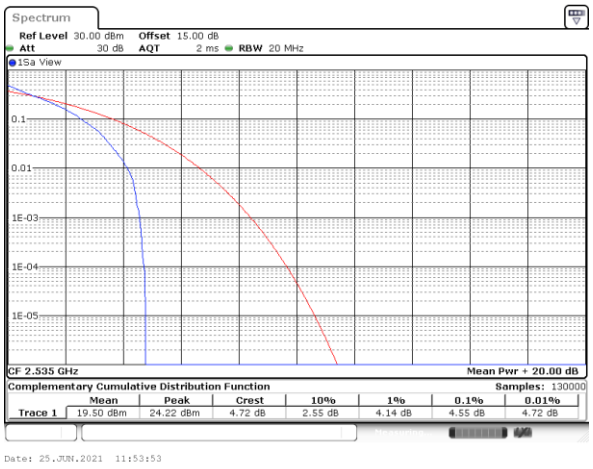
Lowest Channel / 1RB



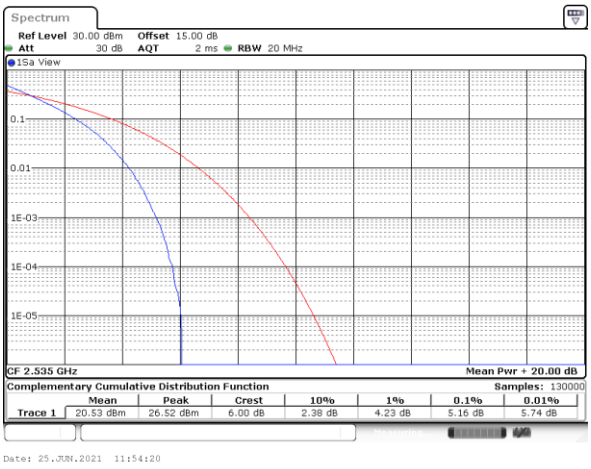
Lowest Channel / Full RB



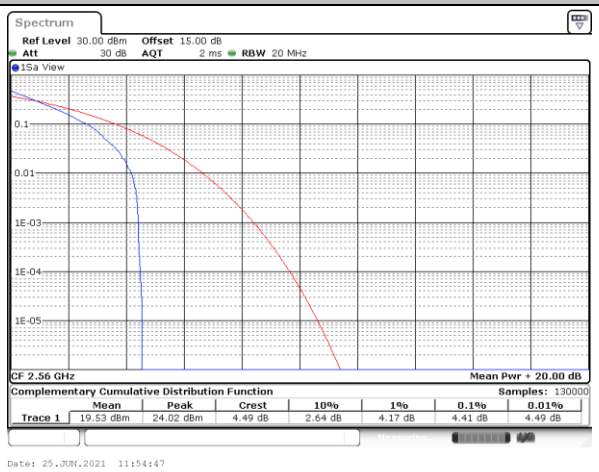
Middle Channel / 1RB



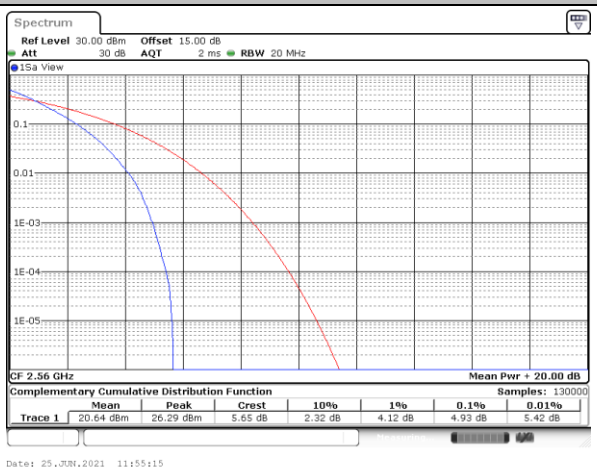
Middle Channel / Full RB



Highest Channel / 1RB

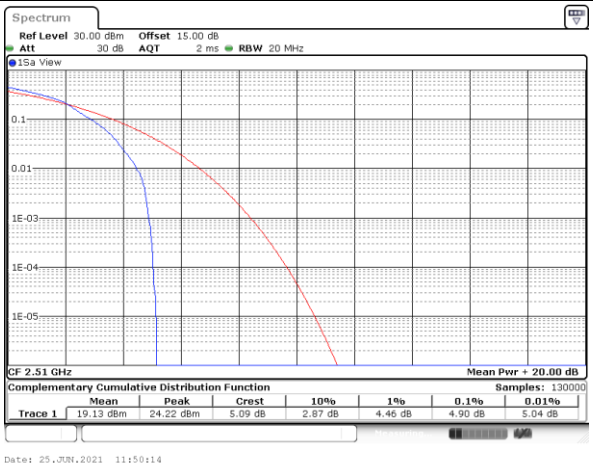


Highest Channel / Full RB

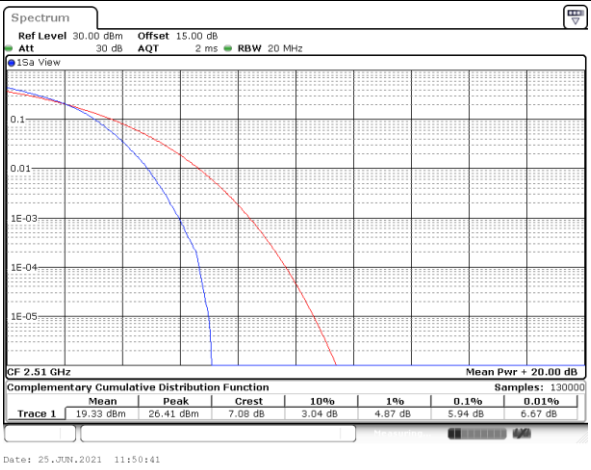


LTE Band 7 / 20MHz / 16QAM

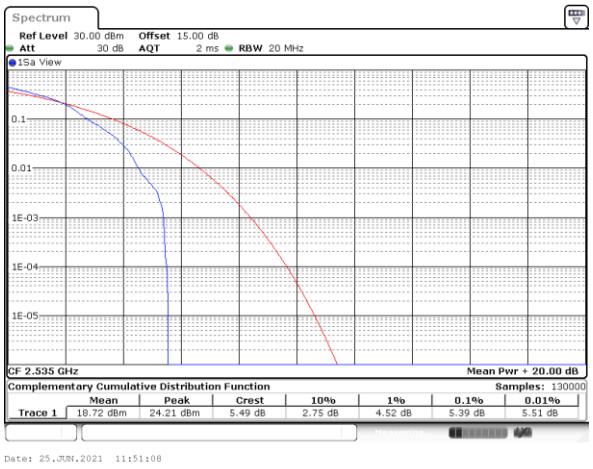
Lowest Channel / 1RB



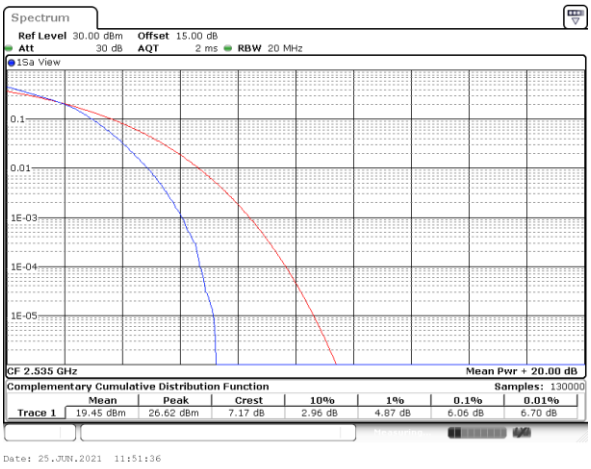
Lowest Channel / Full RB



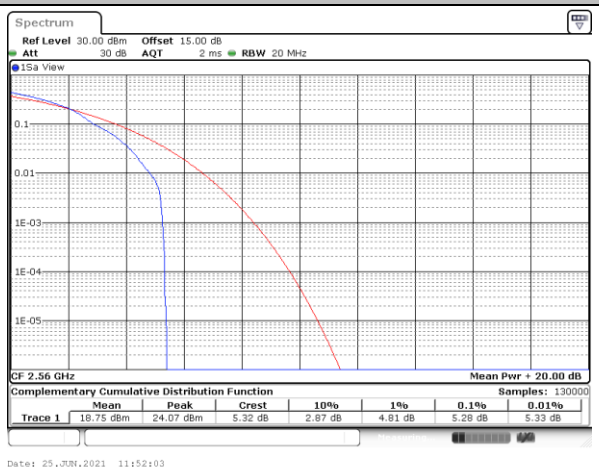
Middle Channel / 1RB



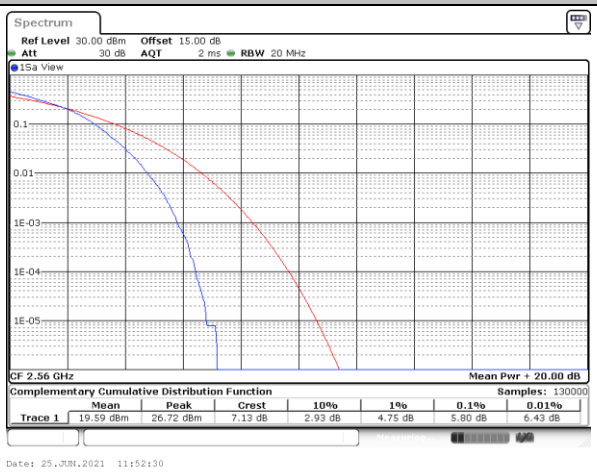
Middle Channel / Full RB



Highest Channel / 1RB

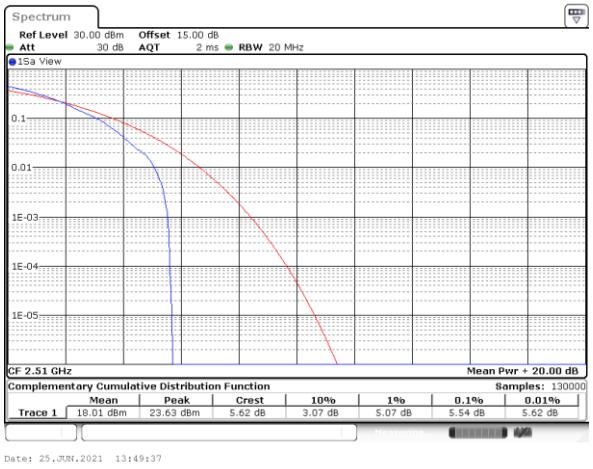


Highest Channel / Full RB

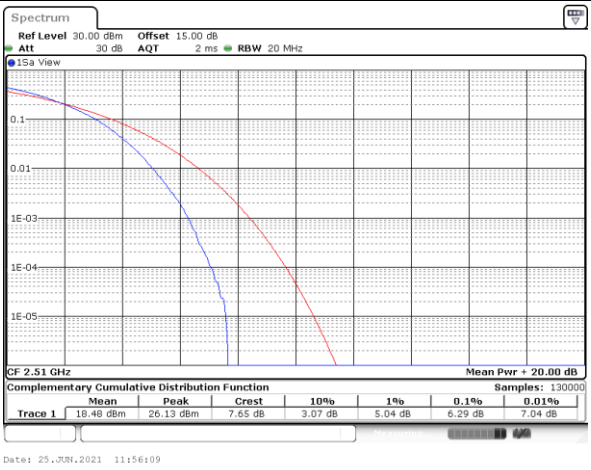


LTE Band 7 / 20MHz / 64QAM

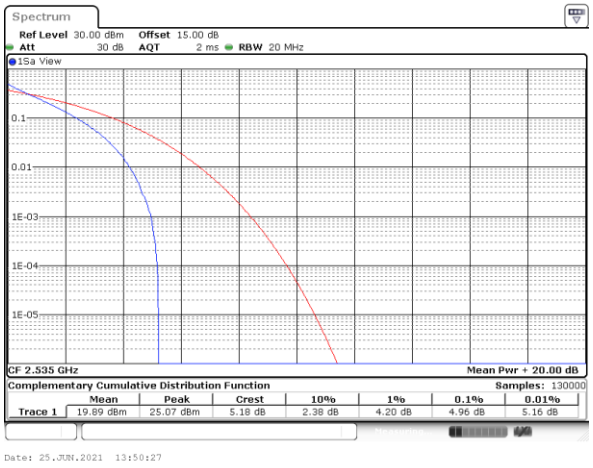
Lowest Channel / 1RB



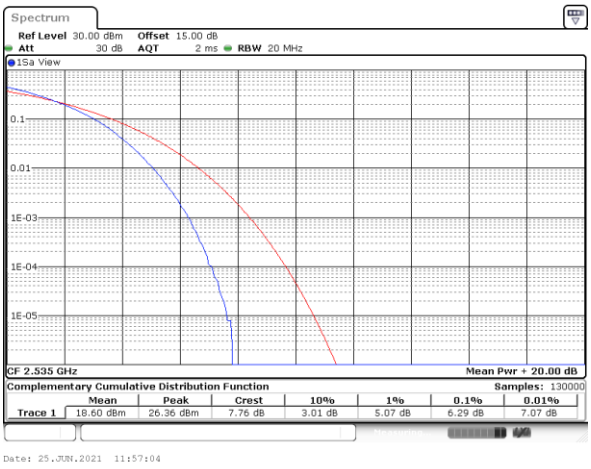
Lowest Channel / Full RB



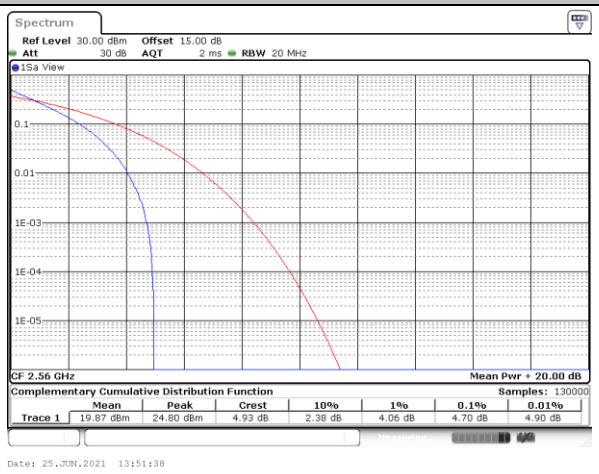
Middle Channel / 1RB



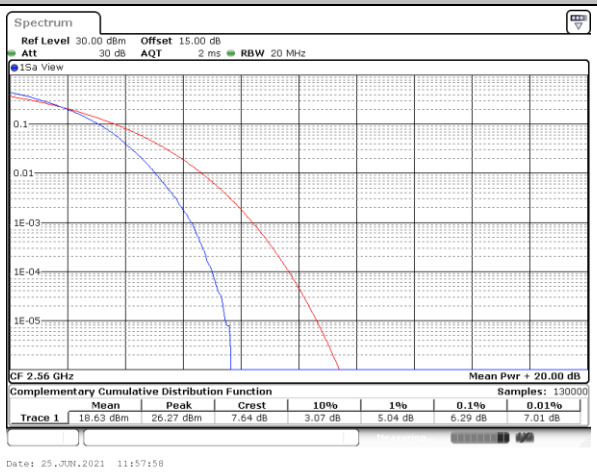
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

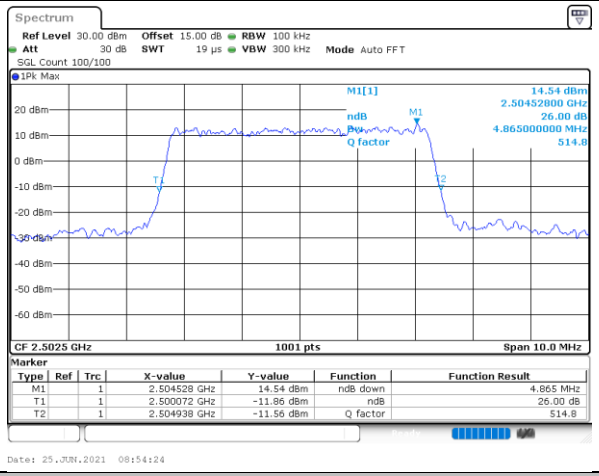


26dB Bandwidth

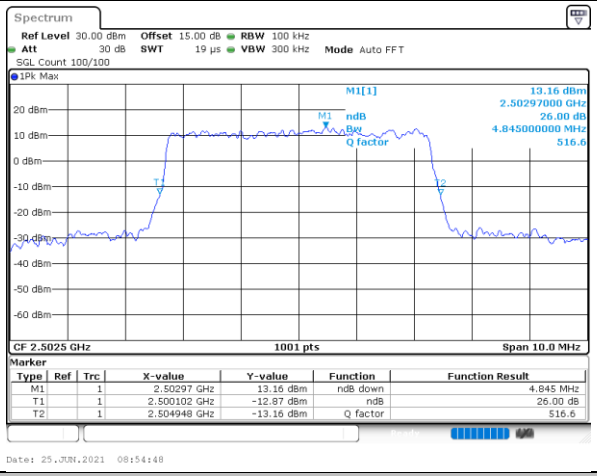
Mode	LTE Band 7 : 26dB BW(MHz)											
BW					5MHz		10MHz		15MHz		20MHz	
Mod.					QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH					4.87	4.85	9.63	9.67	14.51	14.33	18.70	19.06
Middle CH					4.81	4.89	9.81	9.81	14.21	14.48	19.06	19.02
Highest CH					4.85	4.94	9.71	9.87	14.39	14.45	18.74	18.98
Mode	LTE Band 7 : 26dB BW(MHz)											
BW					5MHz		10MHz		15MHz		20MHz	
Mod.					64QAM		64QAM		64QAM		64QAM	
Lowest CH					4.82	-	9.85	-	14.33	-	18.86	-
Middle CH					4.92	-	9.73	-	14.18	-	19.26	-
Highest CH					4.86	-	9.75	-	14.48	-	18.74	-

LTE Band 7

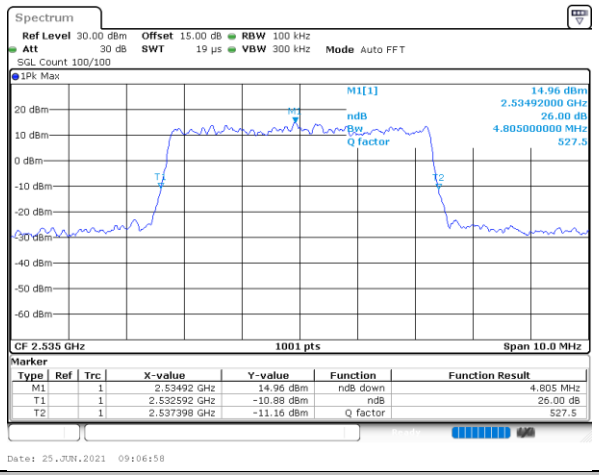
Lowest Channel / 5MHz / QPSK



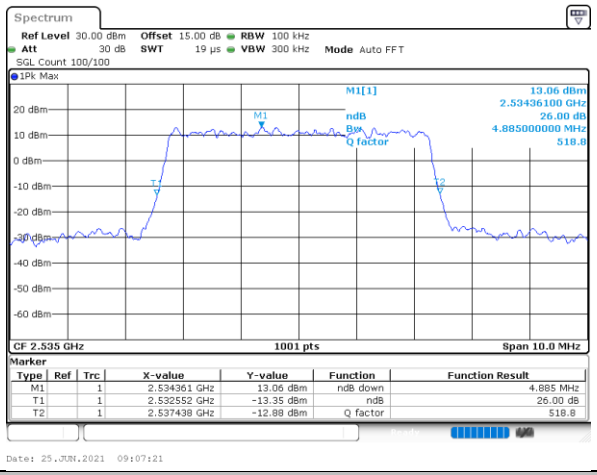
Lowest Channel / 5MHz / 16QAM



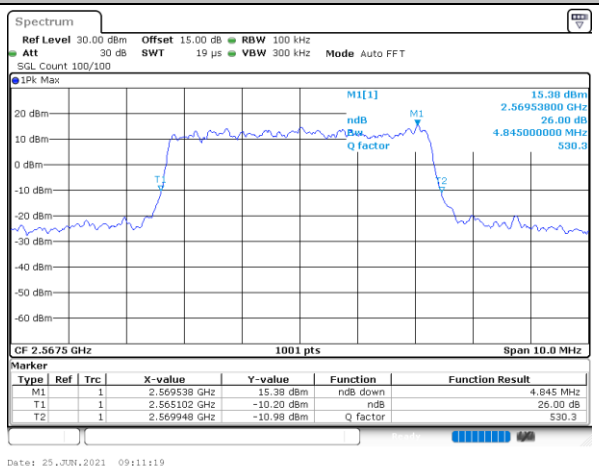
Middle Channel / 5MHz / QPSK



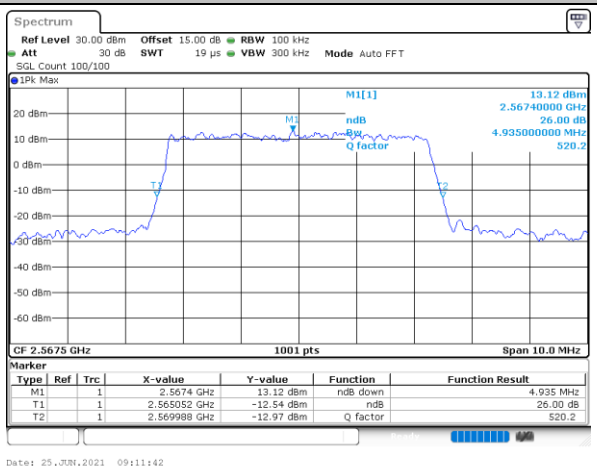
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

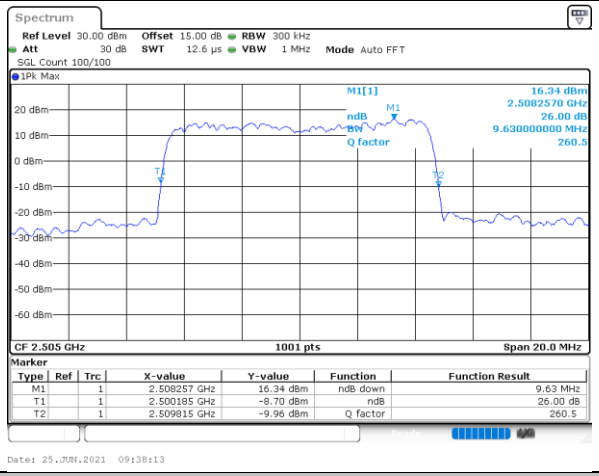


Highest Channel / 5MHz / 16QAM

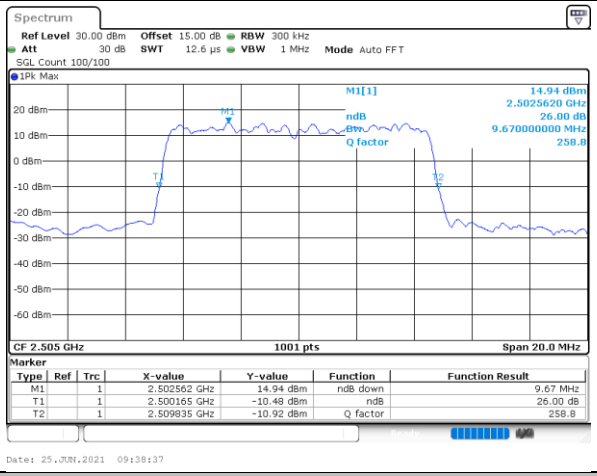


LTE Band 7

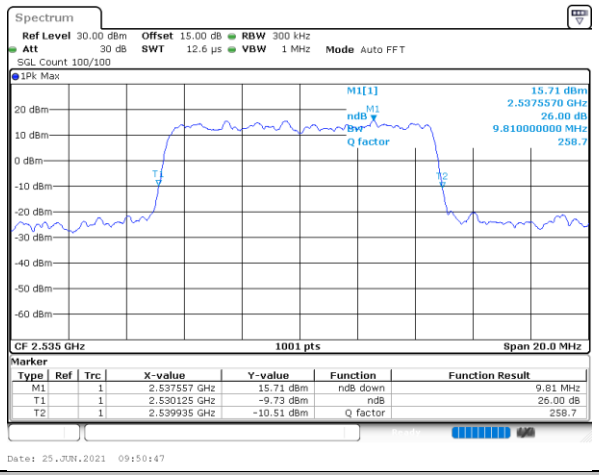
Lowest Channel / 10MHz / QPSK



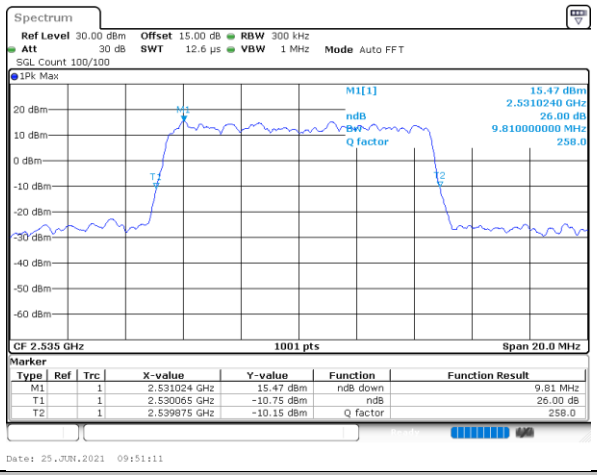
Lowest Channel / 10MHz / 16QAM



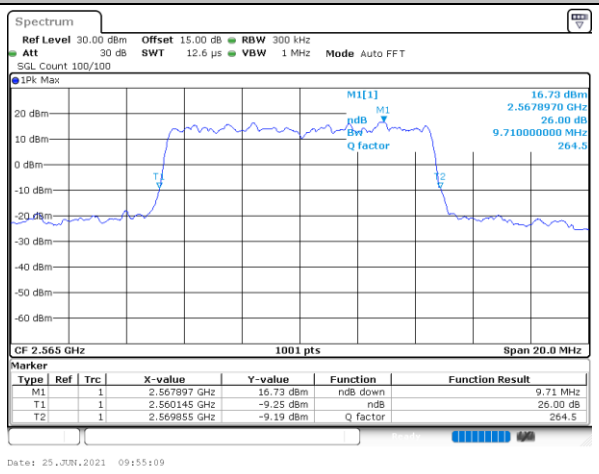
Middle Channel / 10MHz / QPSK



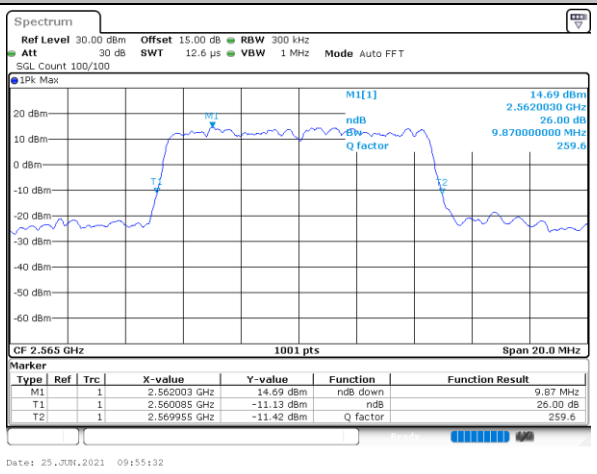
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

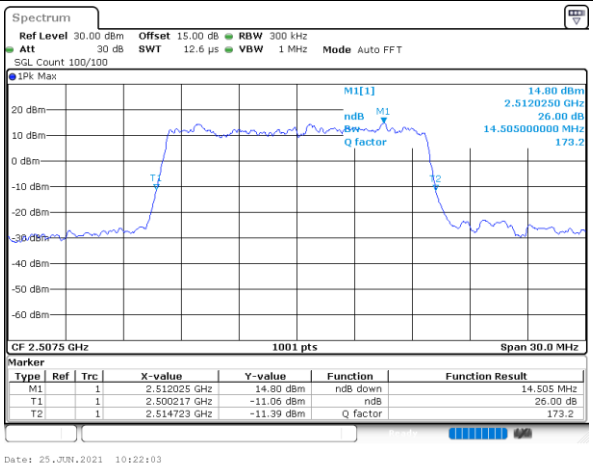


Highest Channel / 10MHz / 16QAM

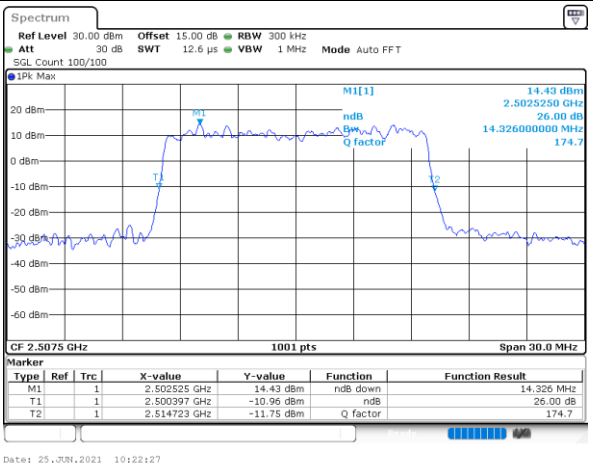


LTE Band 7

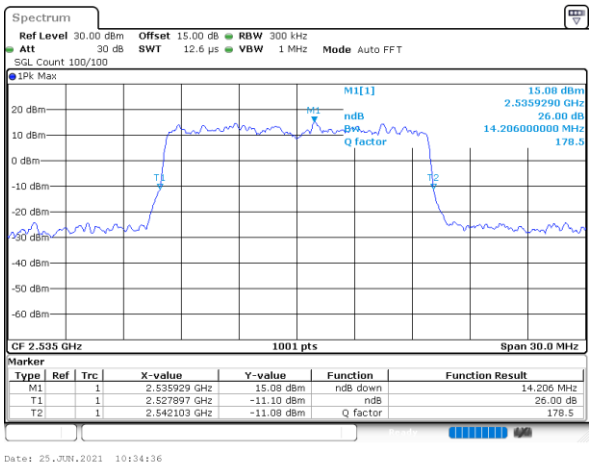
Lowest Channel / 15MHz / QPSK



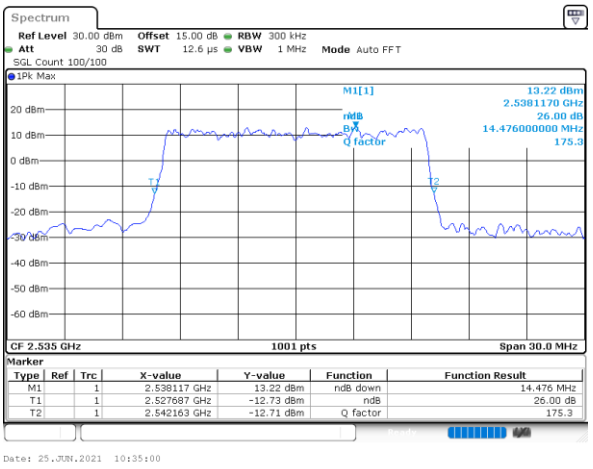
Lowest Channel / 15MHz / 16QAM



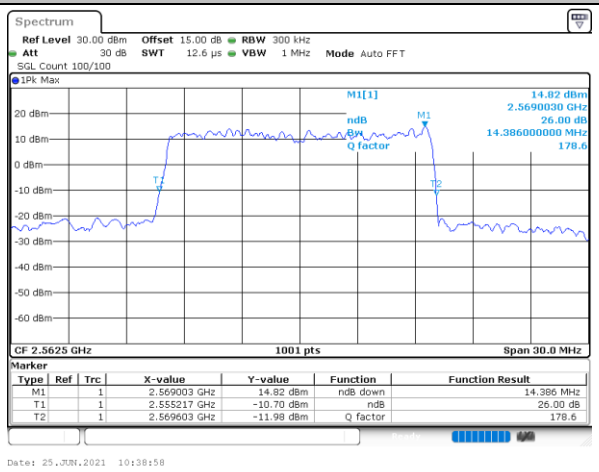
Middle Channel / 15MHz / QPSK



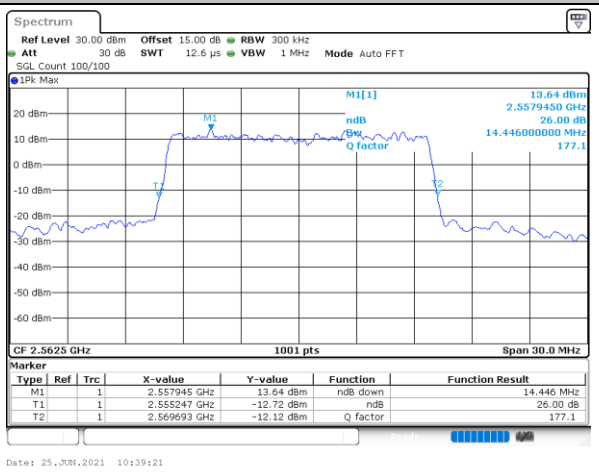
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

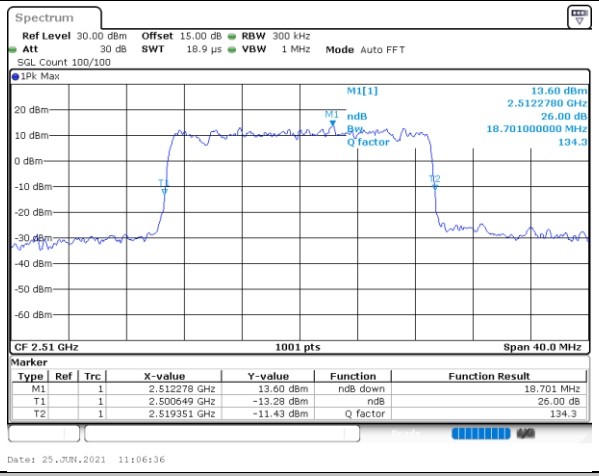


Highest Channel / 15MHz / 16QAM

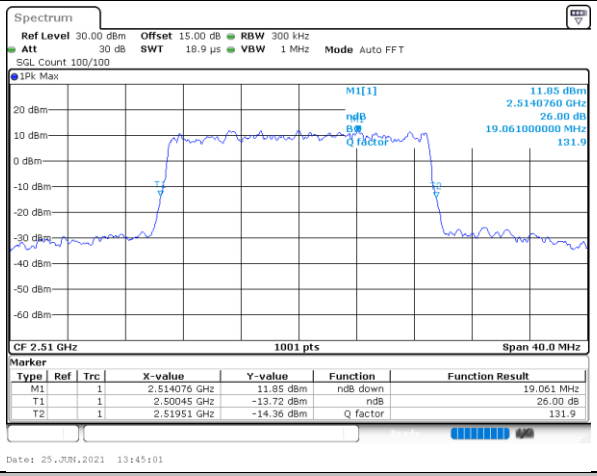


LTE Band 7

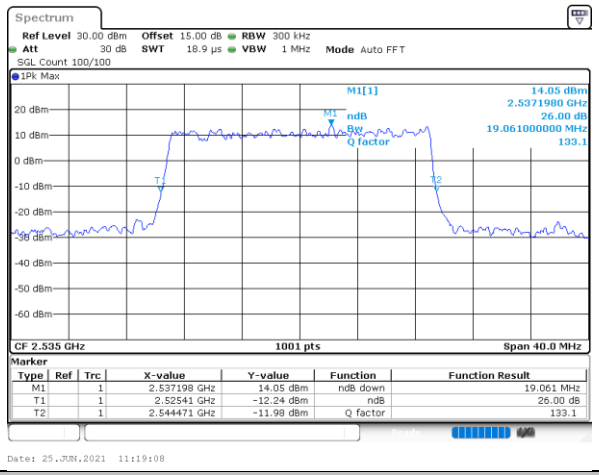
Lowest Channel / 20MHz / QPSK



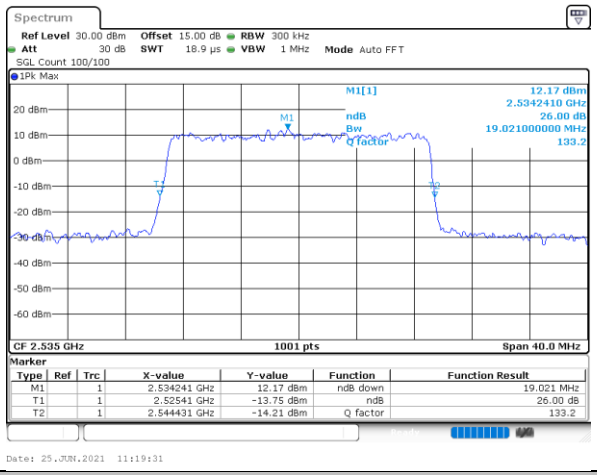
Lowest Channel / 20MHz / 16QAM



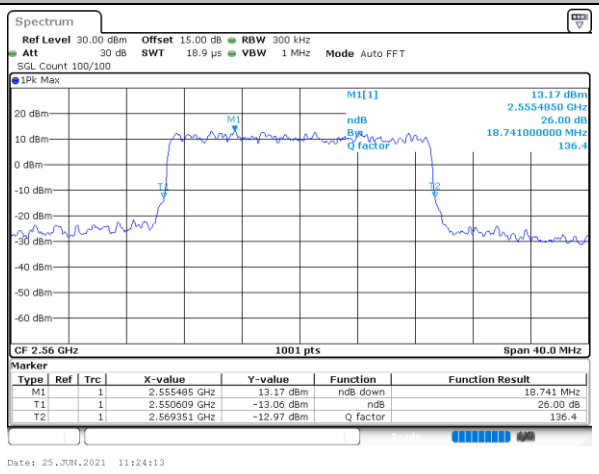
Middle Channel / 20MHz / QPSK



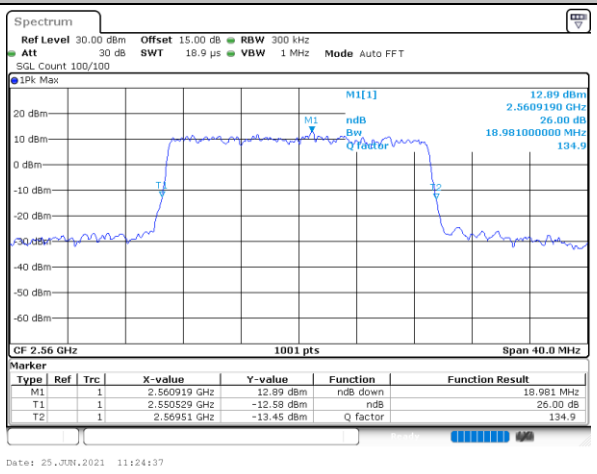
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

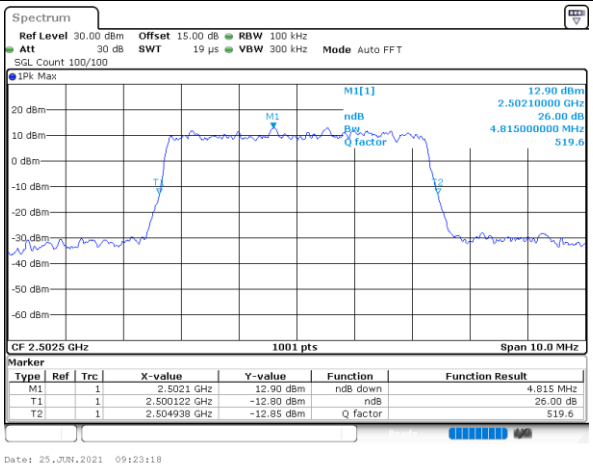


Highest Channel / 20MHz / 16QAM

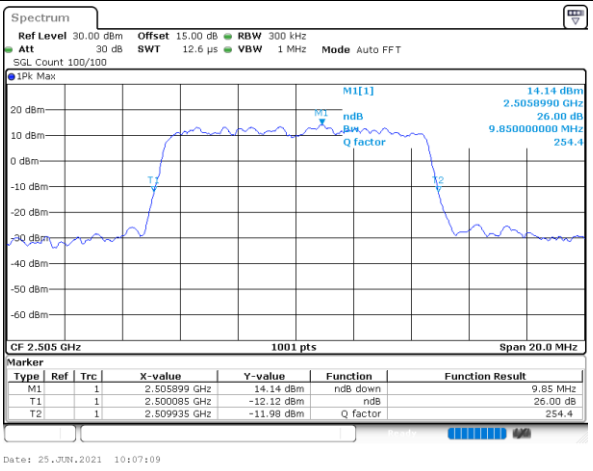


LTE Band 7

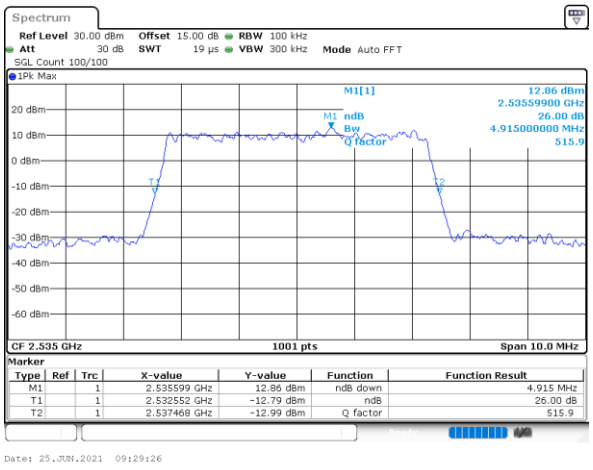
Lowest Channel / 5MHz / 64QAM



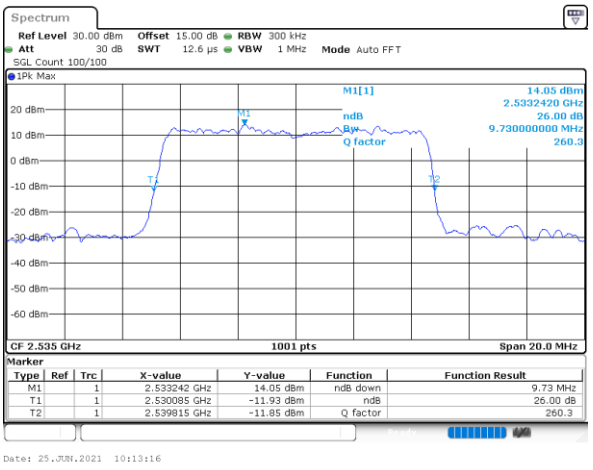
Lowest Channel / 10MHz / 64QAM



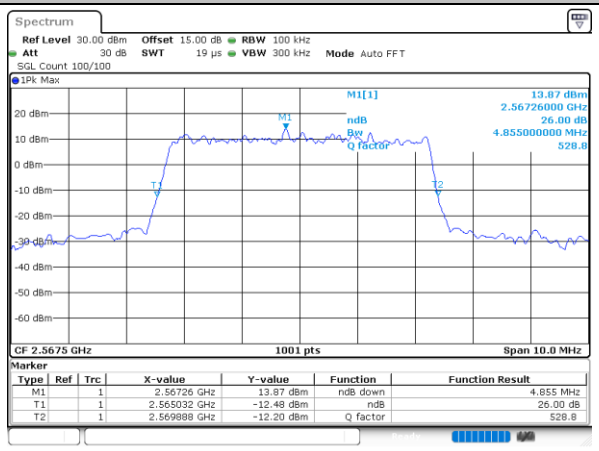
Middle Channel / 5MHz / 64QAM



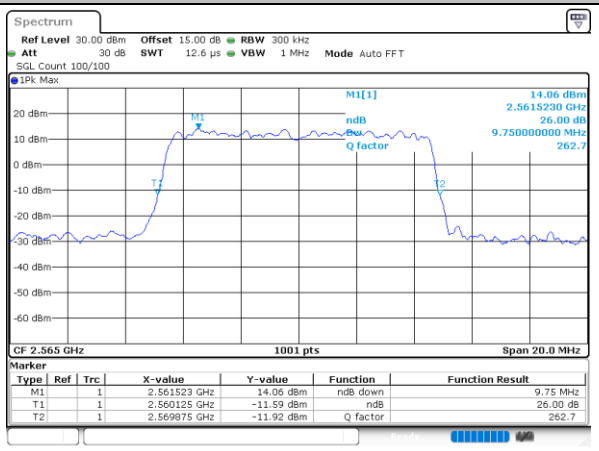
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

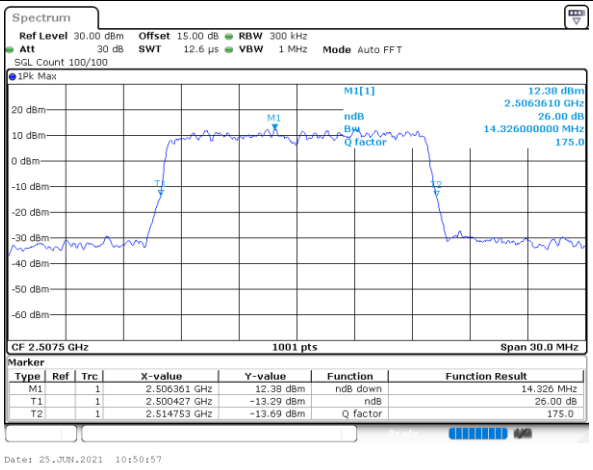


Highest Channel / 10MHz / 64QAM

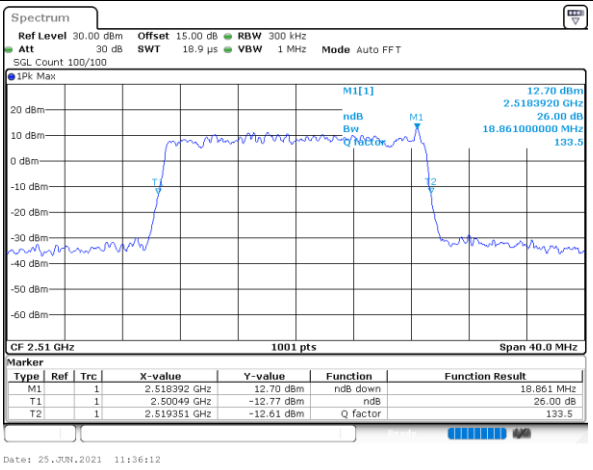


LTE Band 7

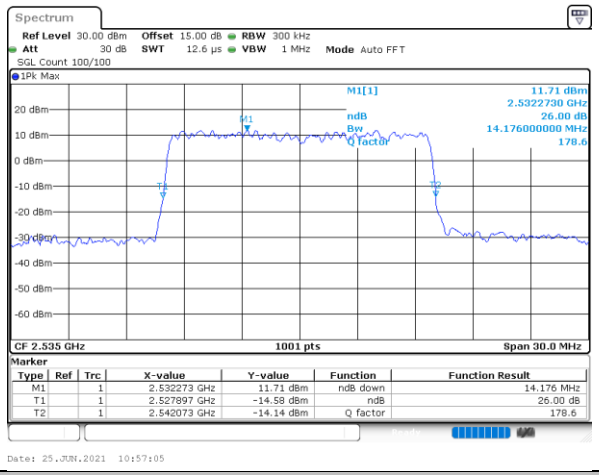
Lowest Channel / 15MHz / 64QAM



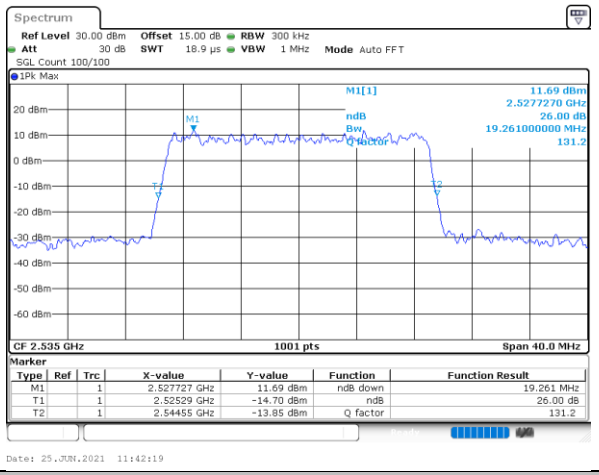
Lowest Channel / 20MHz / 64QAM



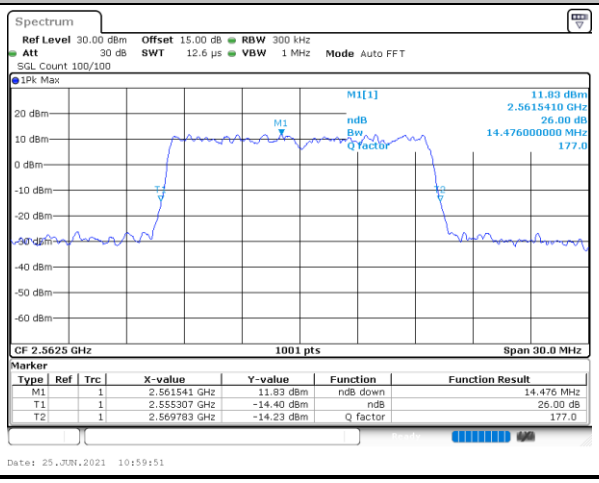
Middle Channel / 15MHz / 64QAM



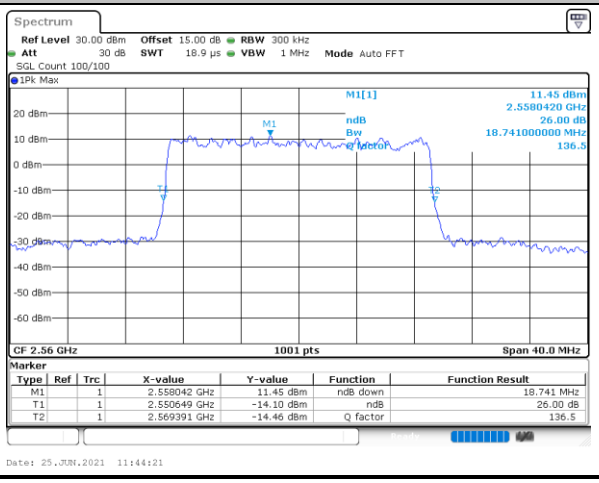
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM

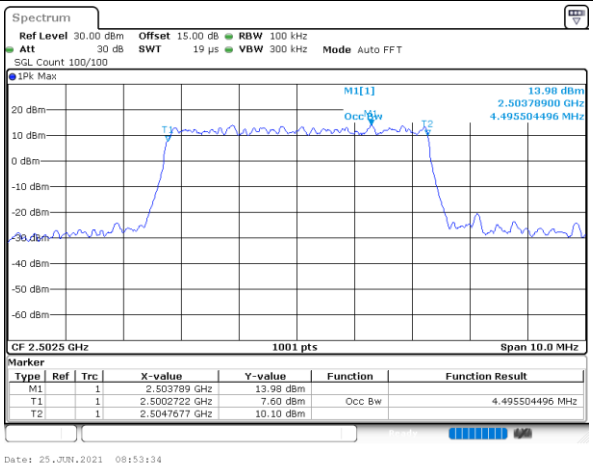


Occupied Bandwidth

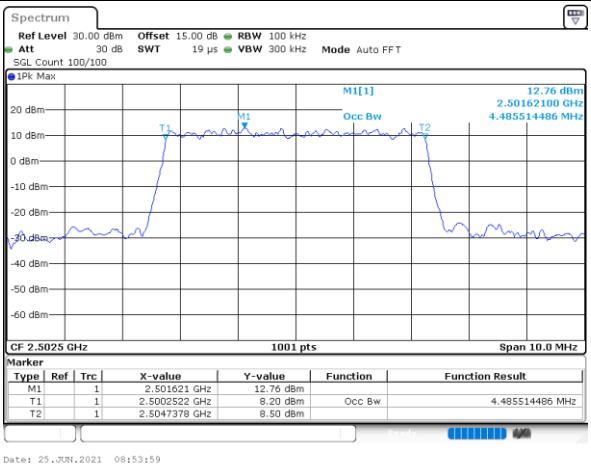
Mode	LTE Band 7 : 99%OBW(MHz)											
BW					5MHz		10MHz		15MHz		20MHz	
Mod.					QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH					4.50	4.49	9.01	9.01	13.46	13.49	17.82	17.90
Middle CH					4.49	4.49	9.05	9.03	13.43	13.43	17.94	17.86
Highest CH					4.48	4.49	9.05	9.03	13.46	13.49	17.90	17.86
Mode	LTE Band 7 : 99%OBW(MHz)											
BW					5MHz		10MHz		15MHz		20MHz	
Mod.					64QAM		64QAM		64QAM		64QAM	
Lowest CH					4.50	-	8.97	-	13.37	-	17.82	-
Middle CH					4.49	-	9.07	-	13.46	-	17.86	-
Highest CH					4.48	-	9.05	-	13.49	-	17.90	-

LTE Band 7

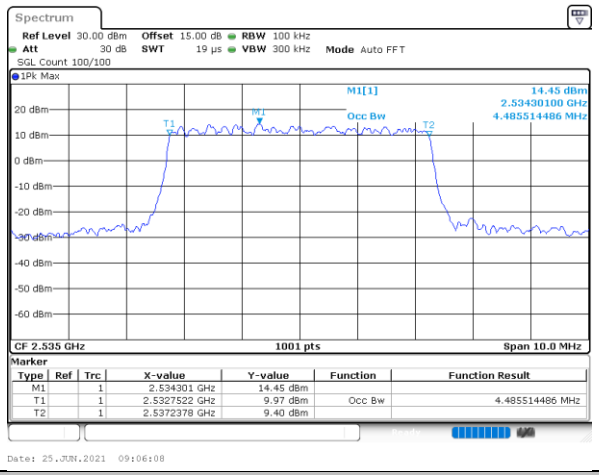
Lowest Channel / 5MHz / QPSK



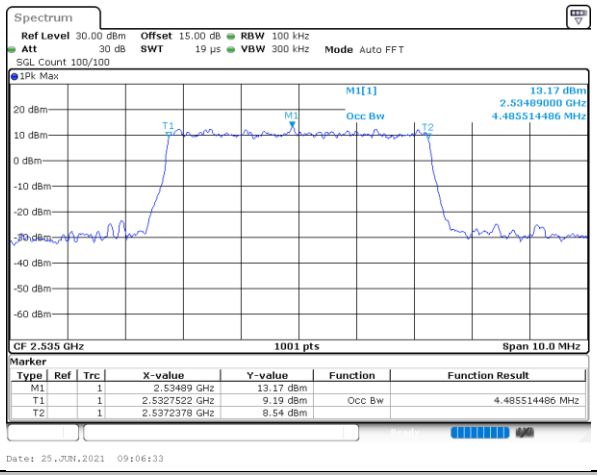
Lowest Channel / 5MHz / 16QAM



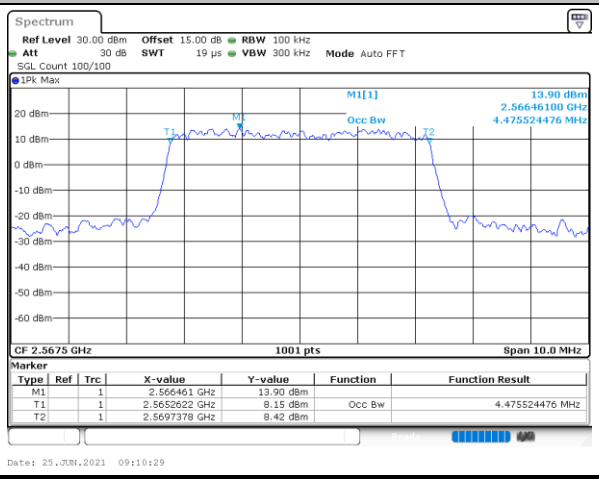
Middle Channel / 5MHz / QPSK



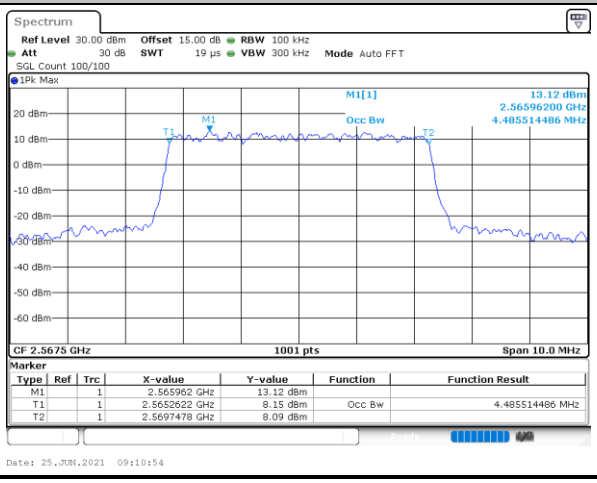
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

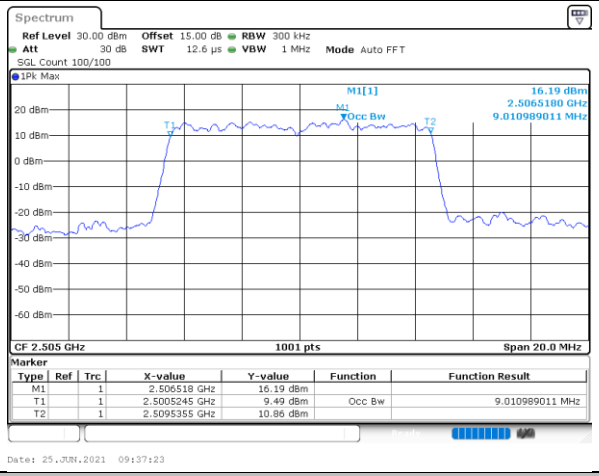


Highest Channel / 5MHz / 16QAM

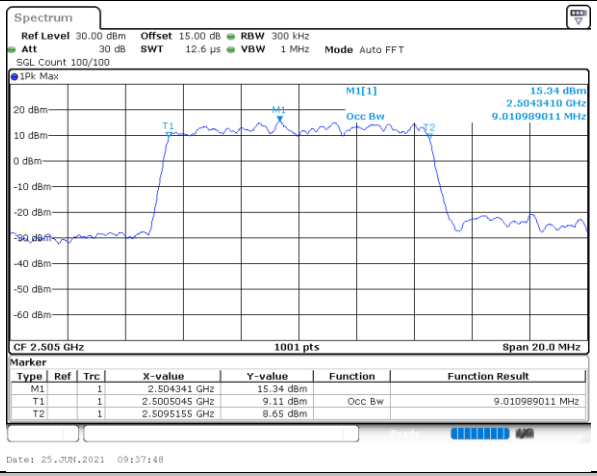


LTE Band 7

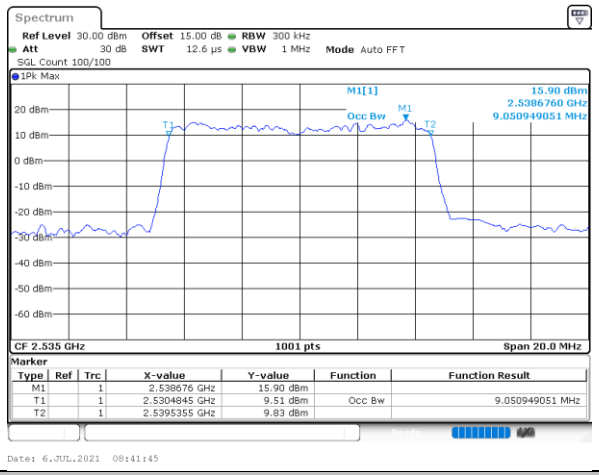
Lowest Channel / 10MHz / QPSK



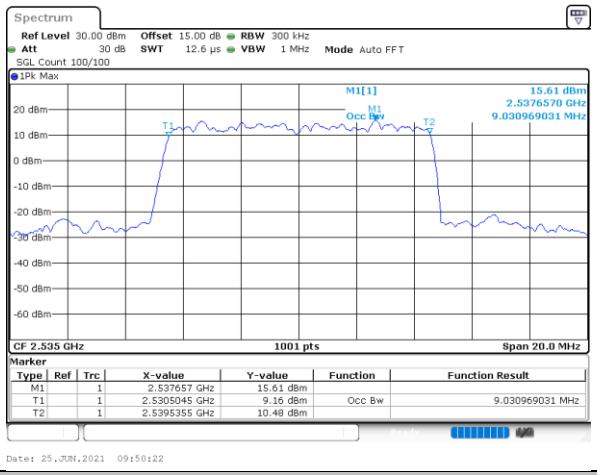
Lowest Channel / 10MHz / 16QAM



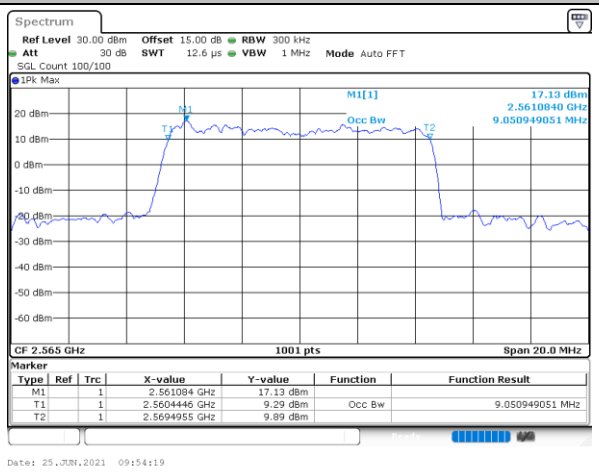
Middle Channel / 10MHz / QPSK



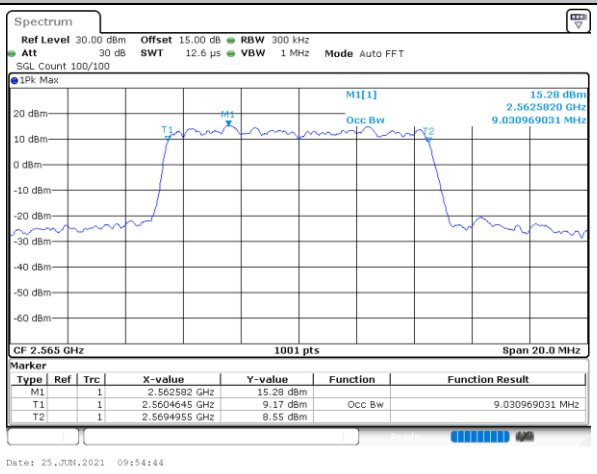
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

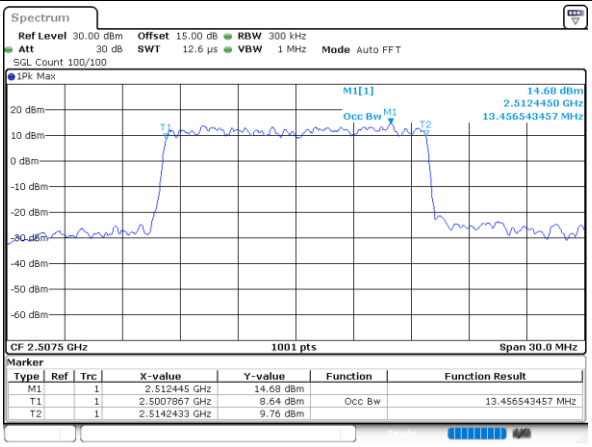


Highest Channel / 10MHz / 16QAM

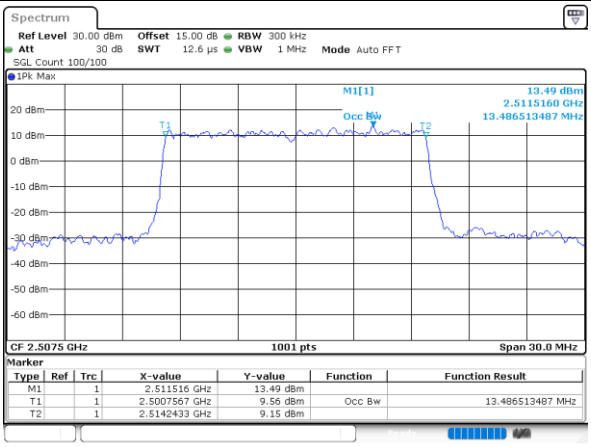


LTE Band 7

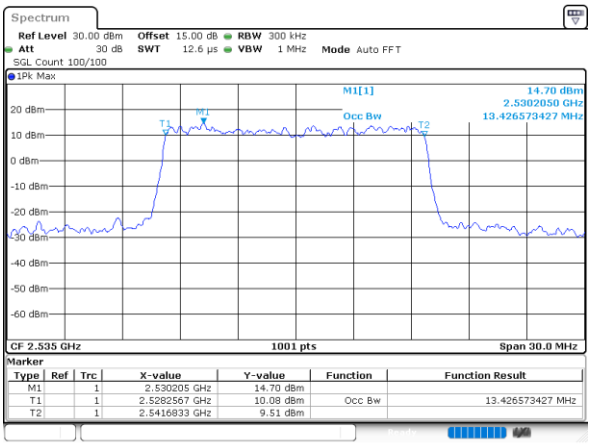
Lowest Channel / 15MHz / QPSK



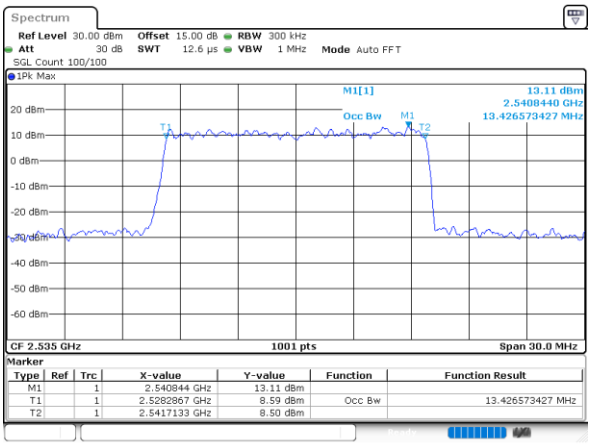
Lowest Channel / 15MHz / 16QAM



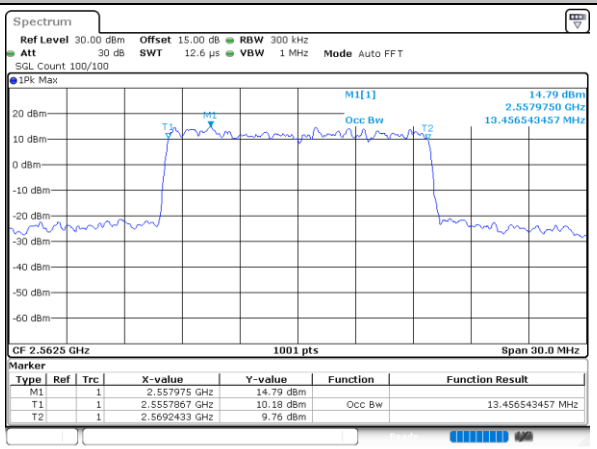
Middle Channel / 15MHz / QPSK



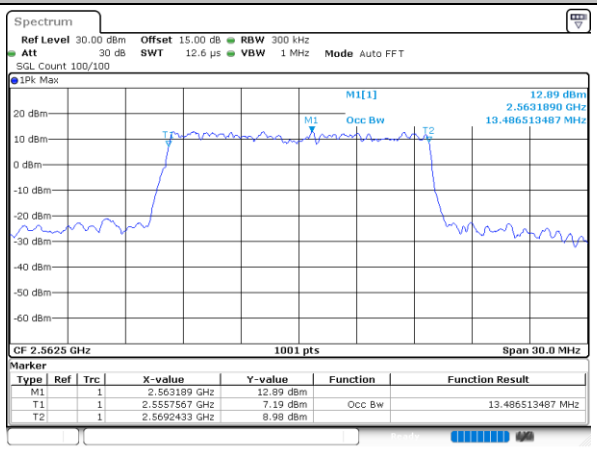
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

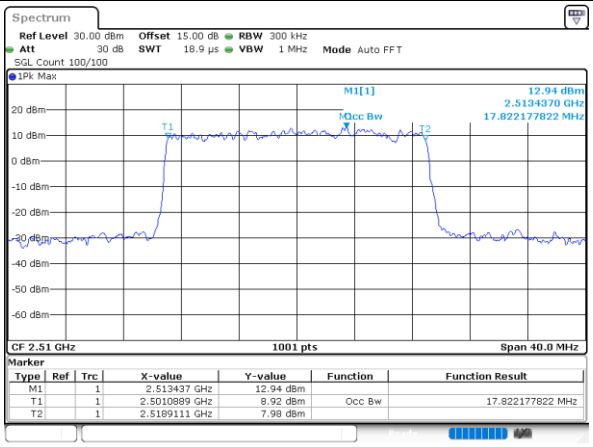


Highest Channel / 15MHz / 16QAM

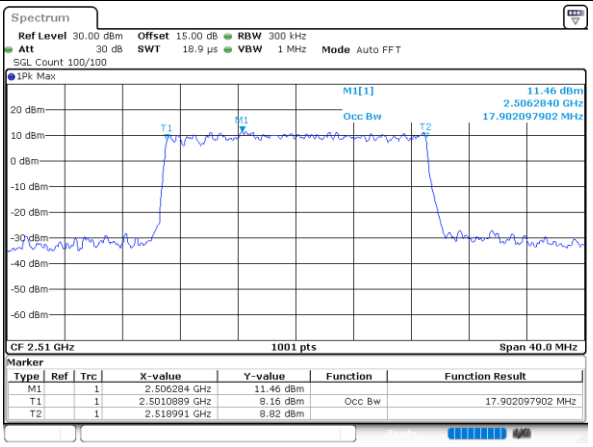


LTE Band 7

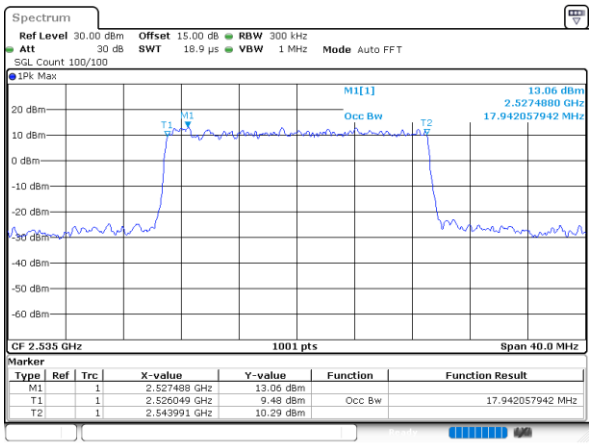
Lowest Channel / 20MHz / QPSK



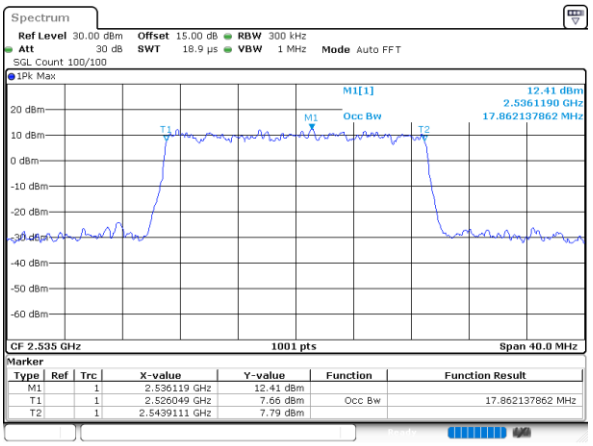
Lowest Channel / 20MHz / 16QAM



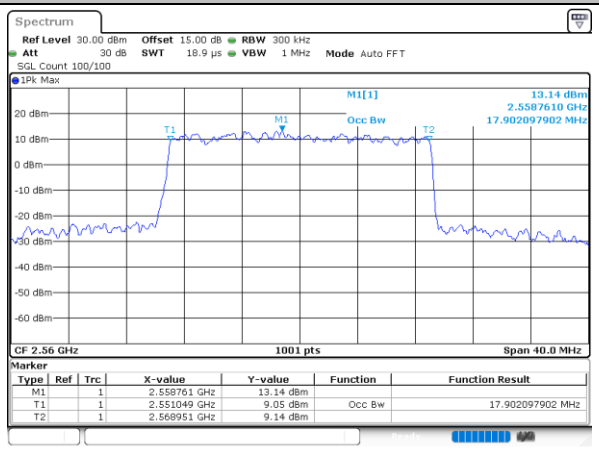
Middle Channel / 20MHz / QPSK



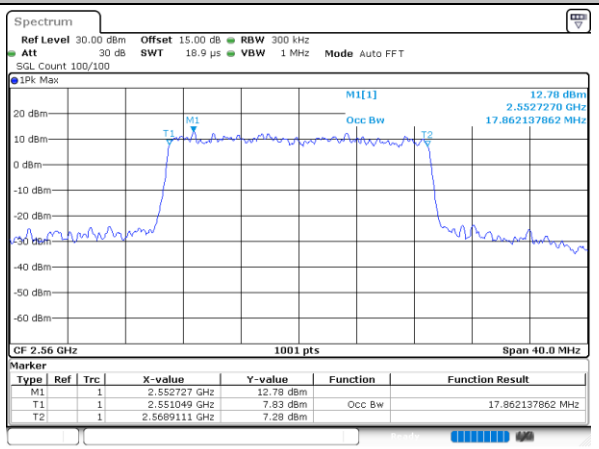
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

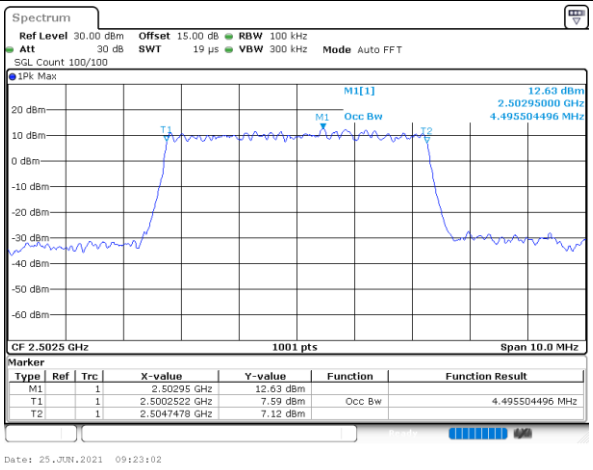


Highest Channel / 20MHz / 16QAM

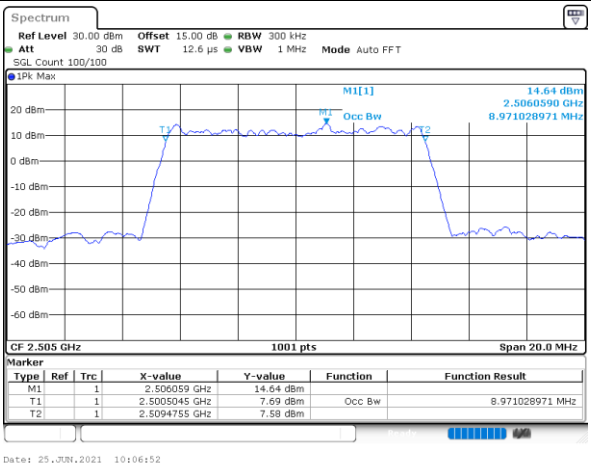


LTE Band 7

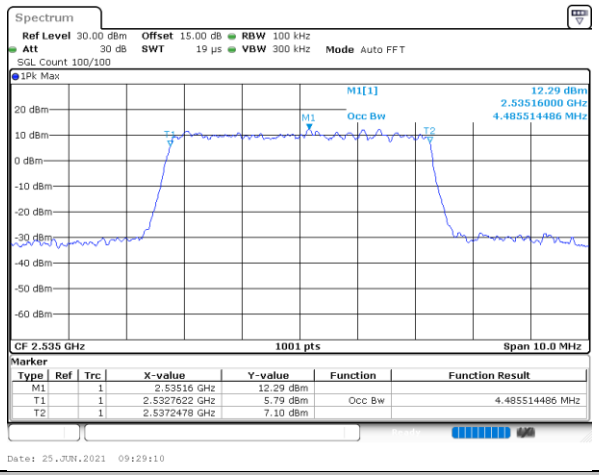
Lowest Channel / 5MHz / 64QAM



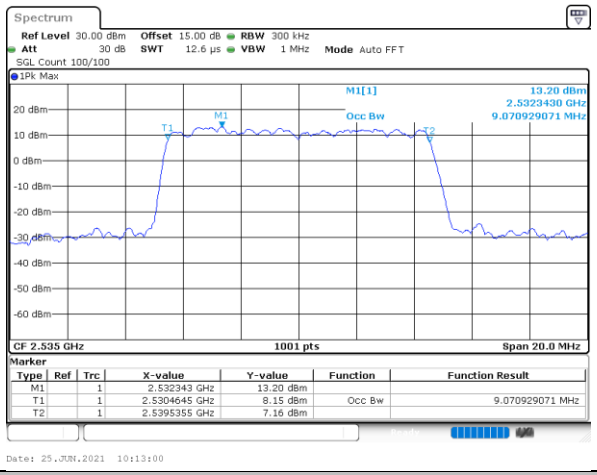
Lowest Channel / 10MHz / 64QAM



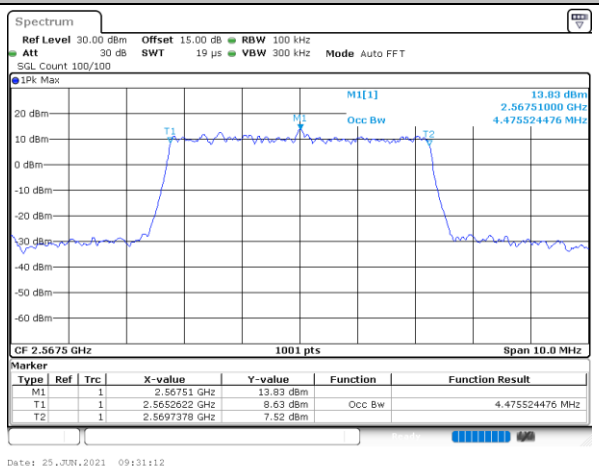
Middle Channel / 5MHz / 64QAM



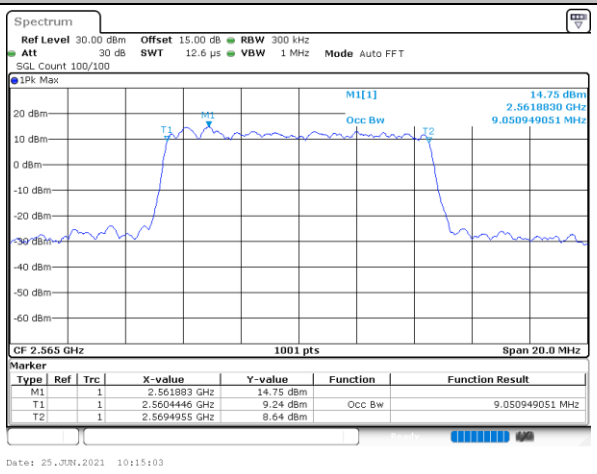
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

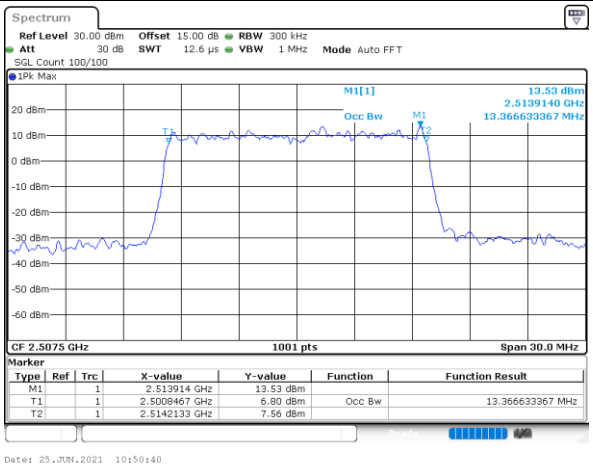


Highest Channel / 10MHz / 64QAM

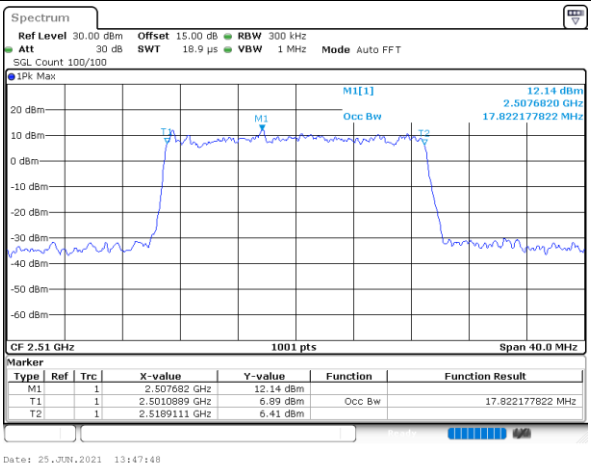


LTE Band 7

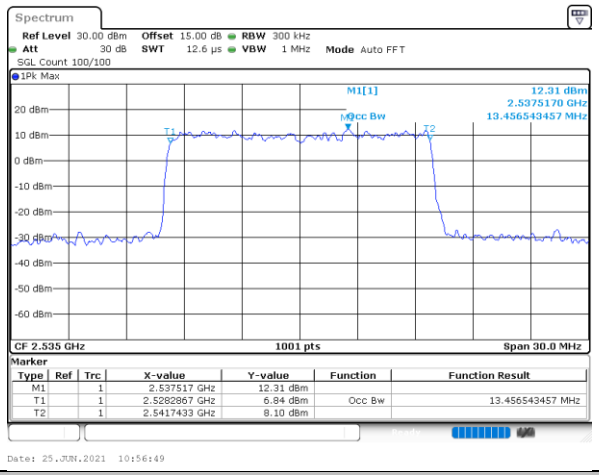
Lowest Channel / 15MHz / 64QAM



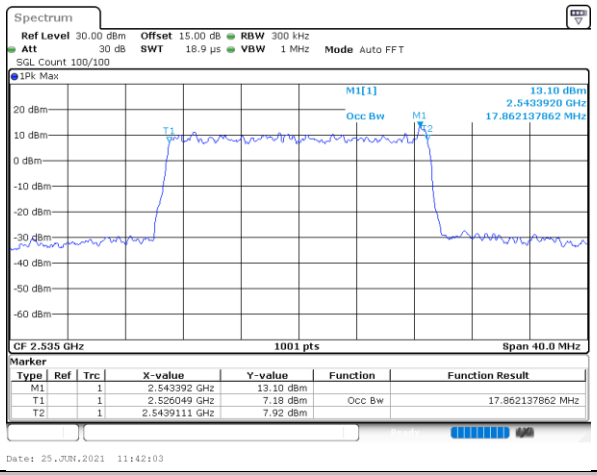
Lowest Channel / 20MHz / 64QAM



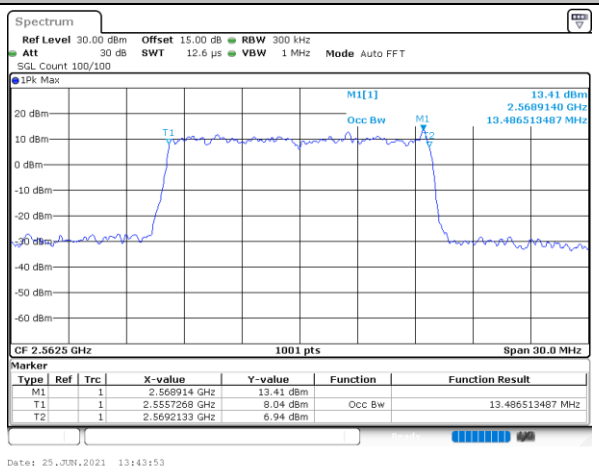
Middle Channel / 15MHz / 64QAM



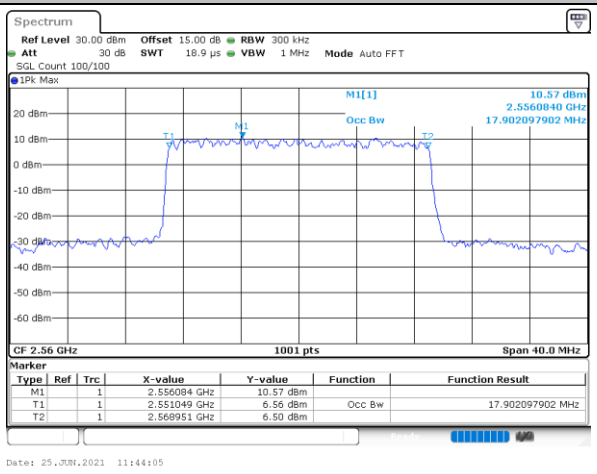
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



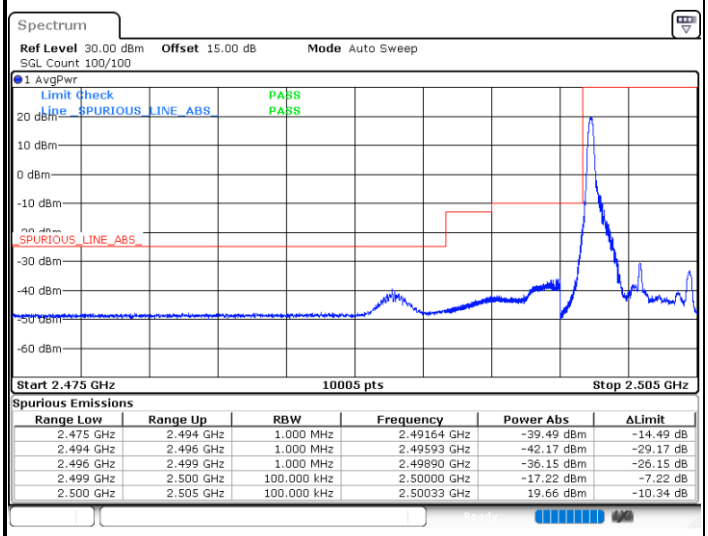
Highest Channel / 20MHz / 64QAM



Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB

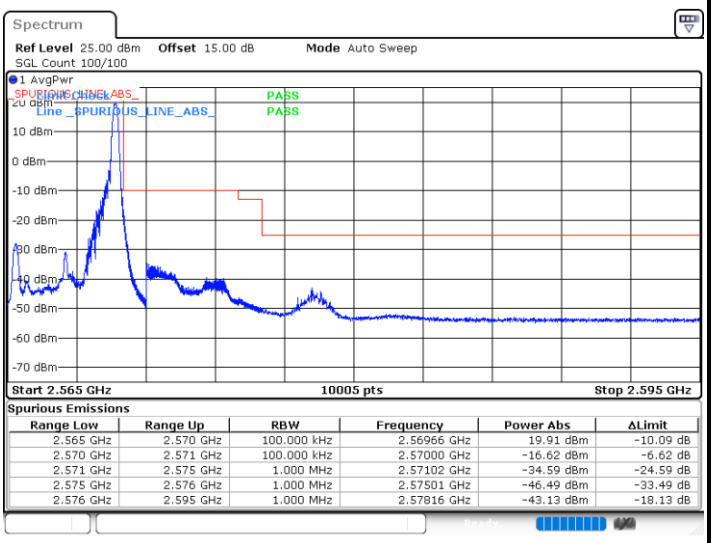


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49164 GHz	-39.49 dBm	-14.49 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49593 GHz	-42.17 dBm	-29.17 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49890 GHz	-36.15 dBm	-26.15 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-17.22 dBm	-7.22 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50033 GHz	19.66 dBm	-10.34 dB

Date: 6.JUL.2021 22:21:16

Highest Band Edge / 1 RB

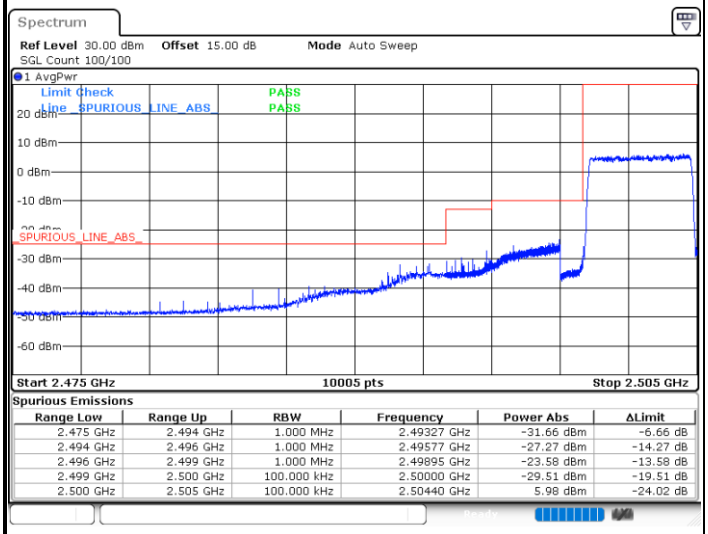


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56966 GHz	19.91 dBm	-10.09 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-16.62 dBm	-6.62 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57102 GHz	-34.59 dBm	-24.59 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57501 GHz	-46.49 dBm	-33.49 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57816 GHz	-43.13 dBm	-18.13 dB

Date: 25.JUN.2021 09:13:45

Lowest Band Edge / Full RB

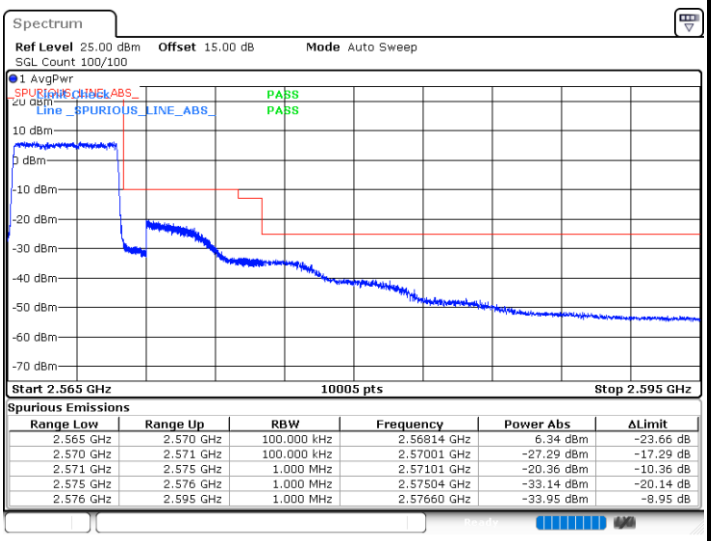


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49327 GHz	-31.66 dBm	-6.66 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49577 GHz	-27.27 dBm	-14.27 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49895 GHz	-23.58 dBm	-13.58 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-29.51 dBm	-19.51 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50440 GHz	5.98 dBm	-24.02 dB

Date: 6.JUL.2021 22:45:57

Highest Band Edge / Full RB



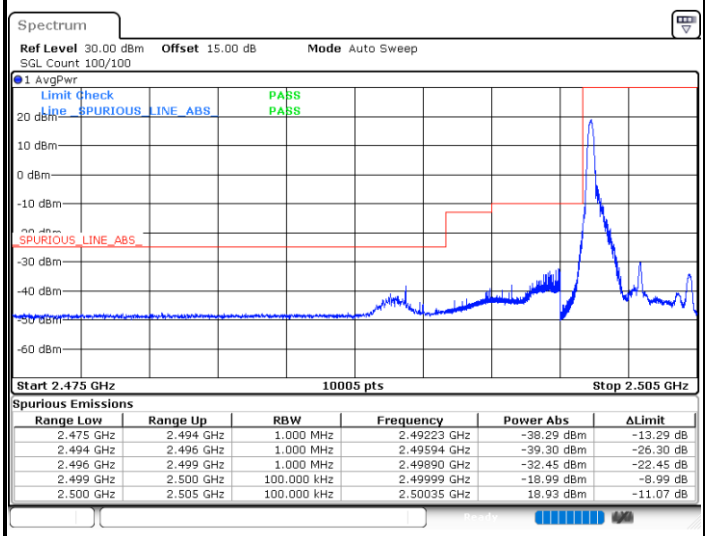
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56814 GHz	6.34 dBm	-23.66 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57001 GHz	-27.29 dBm	-17.29 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57101 GHz	-20.36 dBm	-10.36 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57504 GHz	-33.14 dBm	-20.14 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57660 GHz	-33.95 dBm	-8.95 dB

Date: 25.JUN.2021 09:17:50

LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

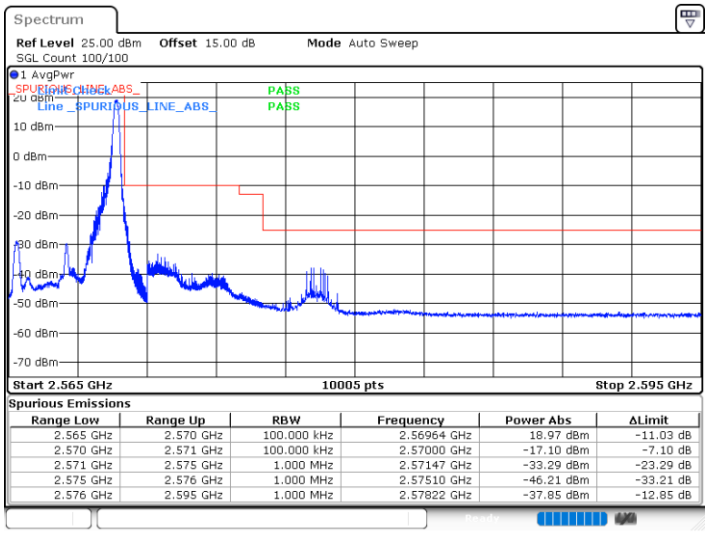


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49223 GHz	-38.29 dBm	-13.29 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49594 GHz	-39.30 dBm	-26.30 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49890 GHz	-32.45 dBm	-22.45 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.49999 GHz	-18.99 dBm	-8.99 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50035 GHz	18.93 dBm	-11.07 dB

Date: 6.JUL.2021 22:21:02

Highest Band Edge / 1 RB

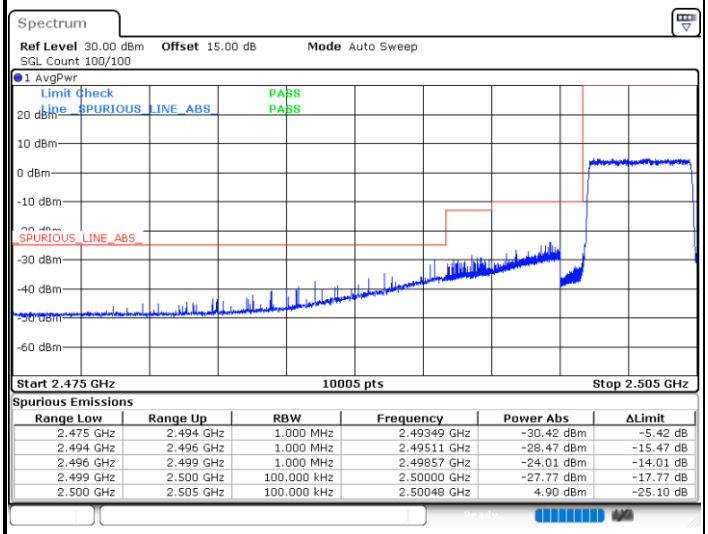


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56964 GHz	18.97 dBm	-11.03 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-17.10 dBm	-7.10 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57147 GHz	-33.29 dBm	-23.29 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57510 GHz	-46.21 dBm	-33.21 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57822 GHz	-37.85 dBm	-12.85 dB

Date: 25.JUN.2021 09:15:47

Lowest Band Edge / Full RB

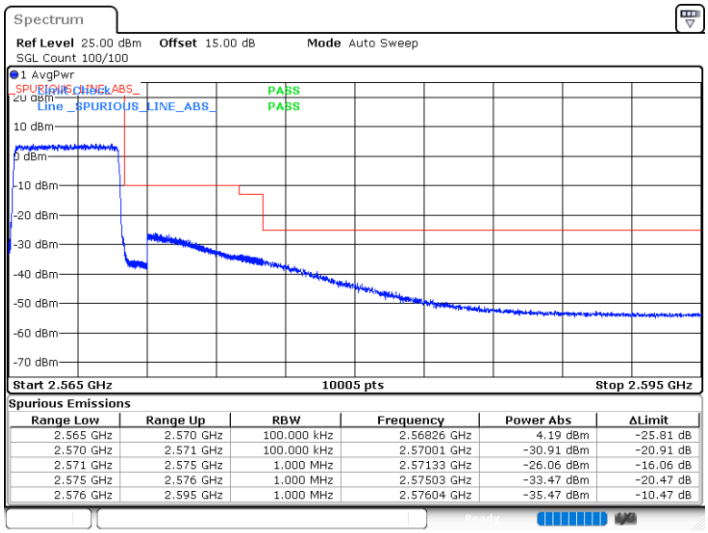


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49349 GHz	-30.42 dBm	-5.42 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49511 GHz	-28.47 dBm	-15.47 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49857 GHz	-24.01 dBm	-14.01 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-27.77 dBm	-17.77 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50048 GHz	4.90 dBm	-25.10 dB

Date: 6.JUL.2021 22:46:10

Highest Band Edge / Full RB



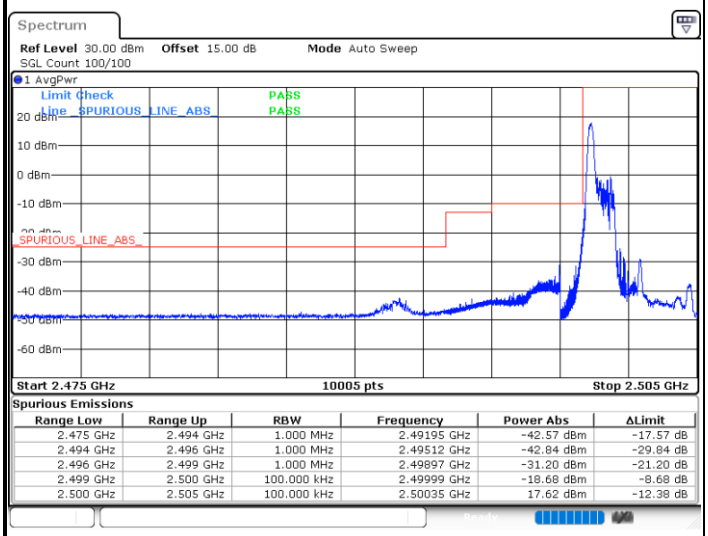
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56826 GHz	4.19 dBm	-25.81 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57001 GHz	-30.91 dBm	-20.91 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57133 GHz	-26.06 dBm	-16.06 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57503 GHz	-33.47 dBm	-20.47 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57604 GHz	-35.47 dBm	-10.47 dB

Date: 25.JUN.2021 09:35:34

LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB

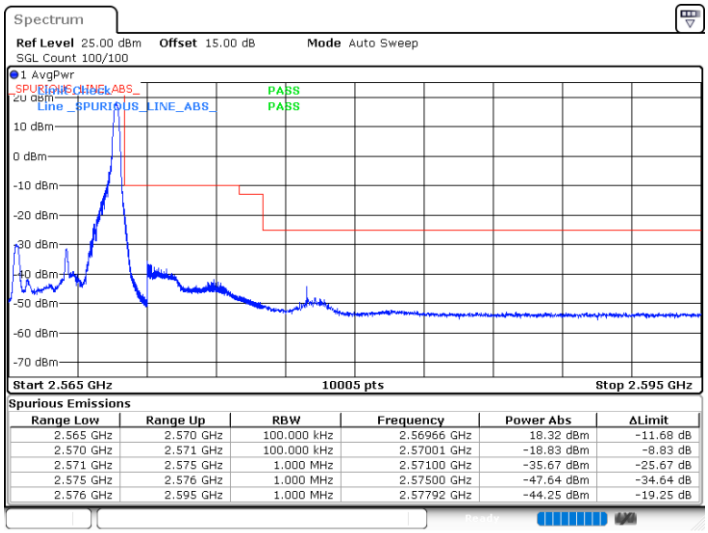


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49195 GHz	-42.57 dBm	-17.57 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49512 GHz	-42.84 dBm	-29.84 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49897 GHz	-31.20 dBm	-21.20 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.49999 GHz	-18.68 dBm	-8.68 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50035 GHz	17.62 dBm	-12.38 dB

Date: 6.JUL.2021 22:20:01

Highest Band Edge / 1 RB

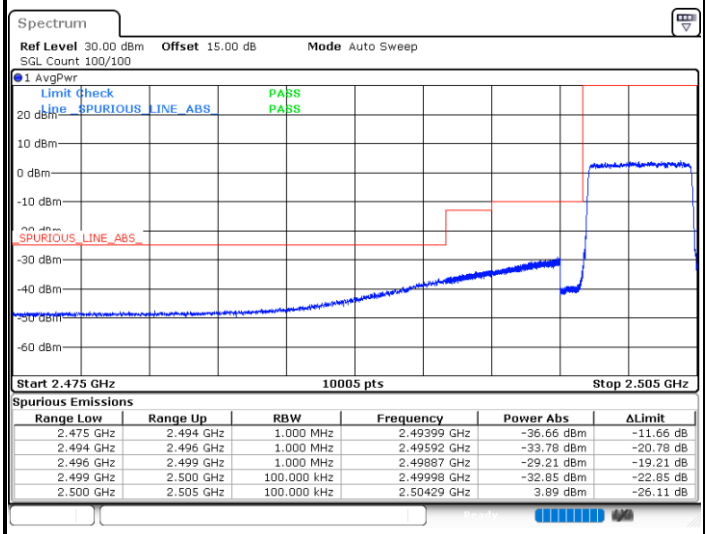


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56966 GHz	18.32 dBm	-11.68 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57001 GHz	-18.83 dBm	-8.83 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57100 GHz	-35.67 dBm	-25.67 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57500 GHz	-47.64 dBm	-34.64 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57792 GHz	-44.25 dBm	-19.25 dB

Date: 25.JUN.2021 09:33:30

Lowest Band Edge / Full RB

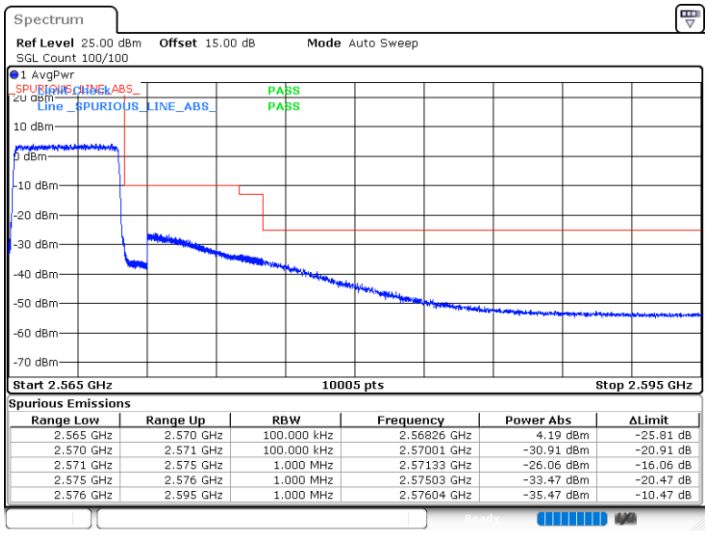


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49399 GHz	-36.66 dBm	-11.66 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49592 GHz	-33.78 dBm	-20.78 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49887 GHz	-29.21 dBm	-19.21 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.49998 GHz	-32.85 dBm	-22.85 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50429 GHz	3.89 dBm	-26.11 dB

Date: 6.JUL.2021 22:46:22

Highest Band Edge / Full RB



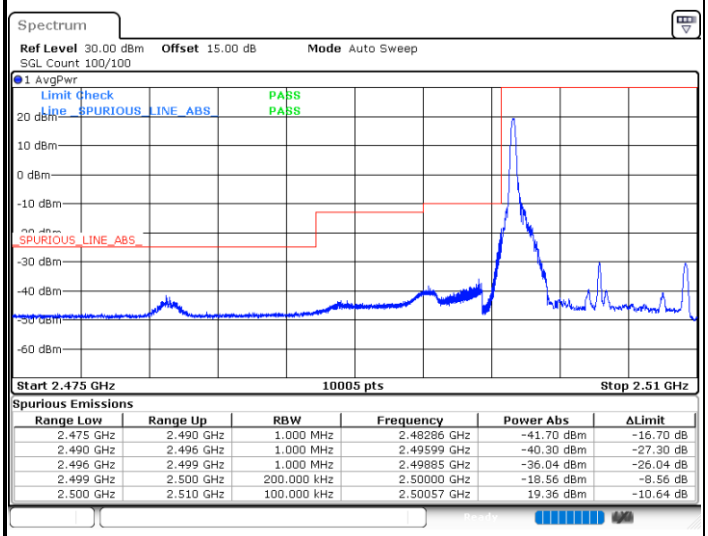
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56826 GHz	4.19 dBm	-25.81 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57001 GHz	-30.91 dBm	-20.91 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57133 GHz	-26.06 dBm	-16.06 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57503 GHz	-33.47 dBm	-20.47 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57604 GHz	-35.47 dBm	-10.47 dB

Date: 25.JUN.2021 09:35:34

LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB

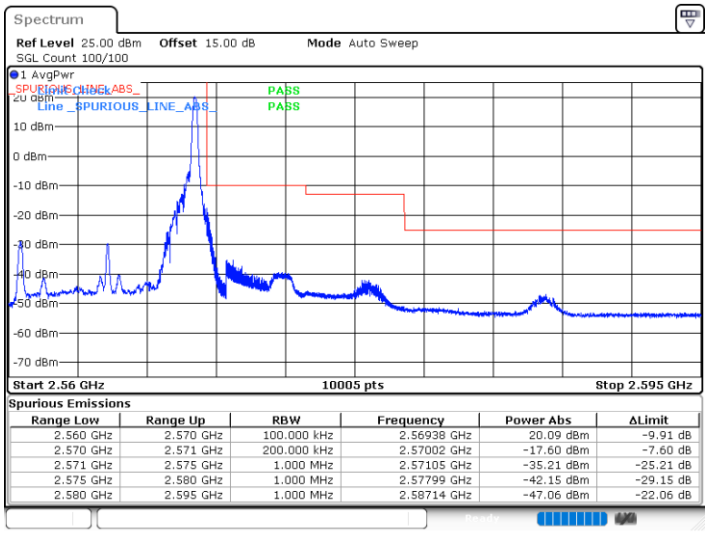


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48286 GHz	-41.70 dBm	-16.70 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49599 GHz	-40.30 dBm	-27.30 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49885 GHz	-36.04 dBm	-26.04 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.50000 GHz	-18.56 dBm	-8.56 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50057 GHz	19.36 dBm	-10.64 dB

Date: 6.JUL.2021 22:40:32

Highest Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56938 GHz	20.09 dBm	-9.91 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57002 GHz	-17.60 dBm	-7.60 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57105 GHz	-35.21 dBm	-25.21 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57799 GHz	-42.15 dBm	-29.15 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58714 GHz	-47.06 dBm	-22.06 dB

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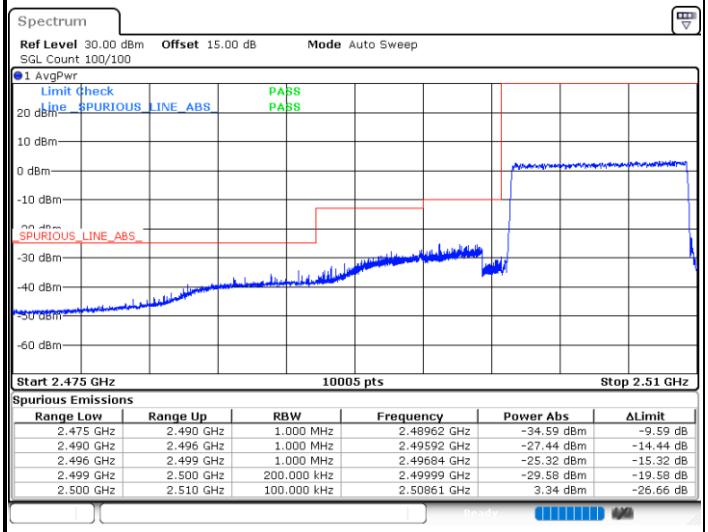
Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48962 GHz	-34.59 dBm	-9.59 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49592 GHz	-27.44 dBm	-14.44 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49684 GHz	-25.32 dBm	-15.32 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.49999 GHz	-29.58 dBm	-19.58 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50861 GHz	3.34 dBm	-26.66 dB

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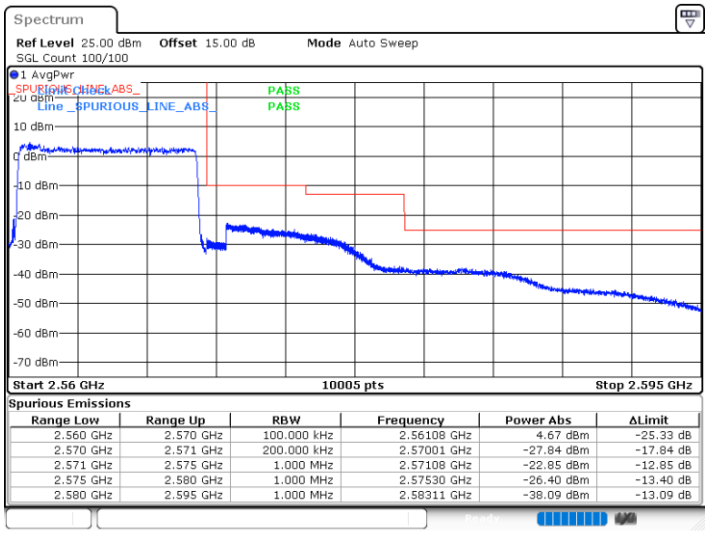
Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56108 GHz	4.67 dBm	-25.33 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57001 GHz	-27.84 dBm	-17.84 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57108 GHz	-22.85 dBm	-12.85 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57530 GHz	-26.40 dBm	-13.40 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58311 GHz	-38.09 dBm	-13.09 dB

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