



FCC RADIO TEST REPORT

FCC ID : PY322100558
Equipment : Netgear 5G MHS Travel Router
Brand Name : Netgear
Model Name : MR6400
Applicant : Netgear Inc
350 E. Plumeria Drive, San Jose, CA
95134, United States
Manufacturer : Netgear Inc
350 E. Plumeria Drive, San Jose, CA
95134, United States
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Mar. 31, 2022 and testing was performed from Apr. 20, 2022 to May 11, 2022. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FG190614-03A	01	Initial issue of report	May 11, 2022



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§22.913 (a)(5)	Effective Radiated Power (Band 5) (Band 26)	Pass	
	§27.50 (b)(10) §27.50 (c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 71)		
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 25) (Band 7) (Band 41)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)		
3.3	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Reporting only	-
3.5	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2)(4) §27.53 (g) §27.53 (h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 25) (Band 26) (Band 66) (Band 71)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (Band 7) (Band 41)		
3.6	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (g) §27.53 (h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 25) (Band 26) (Band 66) (Band 71)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (Band 7) (Band 41)		
3.7	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	-



Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
4.2	§2.1053 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (f) §27.53 (g) §27.53 (h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 25) (Band 26) (Band 66) (Band 71)	Pass	Under limit 7.93 dB at 1564.000 MHz
	§2.1051 §27.53 (m)(4)	Radiated Spurious Emission (Band 7) (Band 41)		

Remark: This is a variant report by adding support band via software. All the test cases were performed on original report which can be referred to Sporton Report Number FG190614A. Based on the original report, the test cases were verified.

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Avis Chuang

Report Producer: Lucy Wu



1 General Description

1.1 Product Feature of Equipment Under Test

LTE/5G NR, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, Wi-Fi 6GHz 802.11a/n/ac/ax, and GNSS

Product Feature	
Antenna Type	WWAN: <Ant. 1>: Monopole Antenna <Ant. 2>: Monopole Antenna WLAN: <Ant. 3>: Monopole Antenna <Ant. 4>: Monopole Antenna GPS: PIFA Antenna

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

Antenna Information	
Internal Antenna Gain	<Ant. 1> LTE Band 13: -0.83 dBi LTE Band 26: -0.88 dBi LTE Band 71: -0.83 dBi <Ant. 2> LTE Band 25: 0.45 dBi LTE Band 41: -0.53 dBi
External Antenna Gain	<Ant. 1>: LTE Band 13: 4.00 dBi LTE Band 26: 4.00 dBi LTE Band 71: 4.00 dBi <Ant. 2>: LTE Band 25: 4.00 dBi LTE Band 41: 4.00 dBi
External Connector	TS9

Remark:

1. TS9 connector is for the external antennas, while the external antennas are connected, RF outputs are switched from internal antenna 1/2 to the external one.
2. The maximum antenna gain allowed for the external antenna is limited by the numbers in the table, and also illustrated in the user manual.

1.2 Modification of EUT

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



1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
	TH03-HY
Test Engineer	HaoEn Zhang
Temperature (°C)	21.6~25.8
Relative Humidity (%)	52.4~57.6

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No.
	03CH16-HY (TAF Code: 3786)
Test Engineer	Andy Yang and Karl Hou
Temperature (°C)	21~25
Relative Humidity (%)	48~58
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory

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

FCC Designation No.: TW1190 and TW3786

1.4 Applicable Standards

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

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

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find X Plane with Adapter for LTE Band 25, 26 and 71; Y Plane with Adapter for LTE Band 41 and 41C; Z Plane with Adapter for LTE Band 13 as worst plane.

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	26	v	v	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	v
	71	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	13	-	-		v	-	-	v	v	v	v			v		v	
	25						v	v	v	v	v			v		v	
	26					v	-	v	v	v				v		v	
	41	-	-				v	v	v	v				v		v	
	71						v	v	v	v				v		v	
26dB and 99% Bandwidth	13	-	-	v	v	-	-	v	v	v	v			v		v	
	25	v	v	v	v	v	v	v	v	v	v			v		v	
	26	v	v	v	v	v	-	v	v	v				v		v	
	41	-	-	v	v	v	v	v	v	v				v		v	
	71	-	-	v	v	v	v	v	v	v				v		v	
Conducted Band Edge	13	-	-	v	v	-	-	v	v	v	v	v		v	v		v
	25	v	v	v	v	v	v	v	v	v	v	v		v	v		v
	26	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
	71	-	-	v	v	v	v	v	v	v	v	v		v	v		v

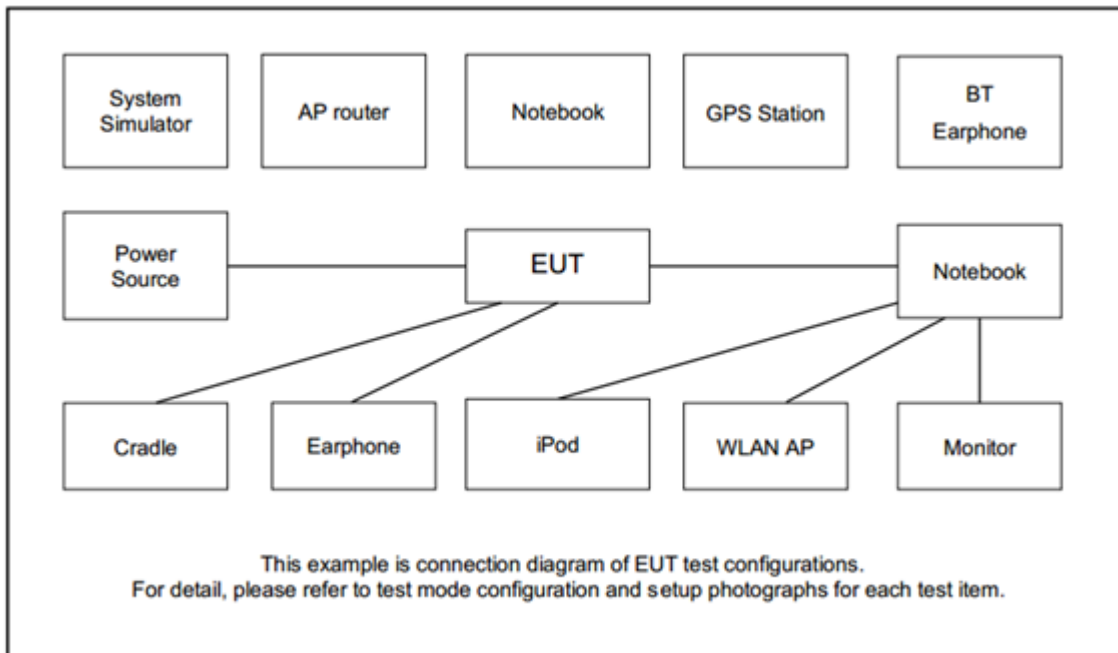


Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	13	-	-	v	v	-	-	v				v			v	v	v
	25	v	v	v	v	v	v	v				v			v	v	v
	26	v	v	v	v	v	-	v				v			v	v	v
	41	-	-	v	v	v	v	v				v			v	v	v
	71	-	-	v	v	v	v	v				v			v	v	v
Frequency Stability	13	-	-		v	-	-	v						v		v	
	25				v			v						v		v	
	26				v		-	v						v		v	
	41	-	-		v			v						v		v	
	71	-	-		v			v						v		v	
E.R.P / E.I.R.P	13	-	-	v	v	-	-	v	v	v	v	Max. Power					
	25	v	v	v	v	v	v	v	v	v	v						
	26	v	v	v	v	v	-	v	v	v	v						
	41	-	-	v	v	v	v	v	v	v	v						
	71	-	-	v	v	v	v	v	v	v	v						
Radiated Spurious Emission	13	Worst Case													v	v	v
	25	Worst Case													v	v	v
	26	Worst Case													v	v	v
	41	Worst Case													v	v	v
	71	Worst Case													v	v	v
Remark	<ol style="list-style-type: none"> The mark "v " means that this configuration is chosen for testing The mark "- " means that this bandwidth is not supported. 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. 																



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	256QAM	1	Half	Full	L	M	H
Max. Output Power	41_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	41_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Conducted Band Edge	41_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Conducted Spurious Emission	41_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
E.I.R.P.	41_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	Max. Power				
Radiated Spurious Emission	41_CA	Worst Case																v	v	v	
Remark	1. The mark "v " means that this configuration is chosen for testing 2. The mark "-." means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																				

2.2 Connection Diagram of Test System





2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m

2.4 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.

$$\text{Offset} = \text{RF cable loss} + \text{attenuator factor}.$$

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

Example :

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



2.5 Frequency List of Low/Middle/High Channels

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

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



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

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

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



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

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



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

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



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

LTE Band 71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	133222	133297	133372
	Frequency	673.0	680.5	688.0
15	Channel	133197	133297	133397
	Frequency	670.5	680.5	690.5
10	Channel	133172	133297	133422
	Frequency	668.0	680.5	693.0
5	Channel	133147	133297	133447
	Frequency	665.5	680.5	695.5



LTE Band 41C 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



LTE Band 41C Channel and Frequency List					
20 + 5	PCC	Channel	39750	40595	41440
		Frequency	2506.0	2590.5	2675.0
	SCC	Channel	39867	40712	41557
		Frequency	2517.7	2602.2	2686.7
5 + 20	PCC	Channel	39683	40528	41373
		Frequency	2499.3	2583.8	2668.3
	SCC	Channel	39800	40645	41490
		Frequency	2511.0	2595.5	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
10 + 15	PCC	Channel	39703	40549	41395
		Frequency	2501.3	2585.9	2670.5
	SCC	Channel	39823	40669	41515
		Frequency	2513.3	2597.9	2682.5
15 + 10	PCC	Channel	39725	40571	41417
		Frequency	2503.5	2588.1	2672.7
	SCC	Channel	39845	40691	41537
		Frequency	2515.5	2600.1	2684.7

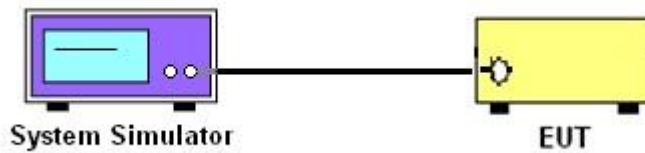
3 Conducted Test Items

3.1 Measuring Instruments

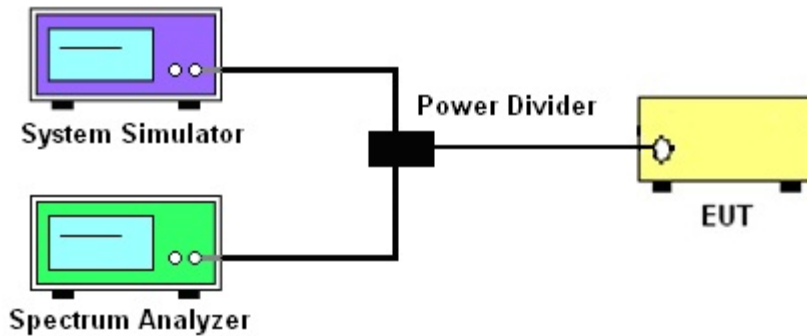
See list of measuring instruments of this test report.

3.1.1 Test Setup

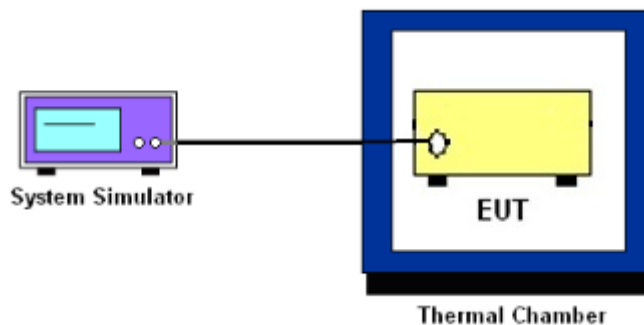
3.1.2 Conducted Output Power



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



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power and ERP/EIRP

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

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

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

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 13 and Band 71

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 25 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

3.2.2 Test Procedures

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



3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

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

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

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



3.4 Occupied Bandwidth

3.4.1 Description of Occupied Bandwidth Measurement

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

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

3.4.2 Test Procedures

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

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



3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

22.917(a)

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

24.238 (a)

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

27.53 (c)

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

27.53 (g)

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

**27.53(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.

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

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

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

For LTE Band 41

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



3.6 Conducted Spurious Emission

3.6.1 Description of Conducted Spurious Emission Measurement

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

For LTE Band 41

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

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

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

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

For LTE Band 41

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



3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

22.355

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

24.235 & 27.54

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

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

4 Radiated Test Items

4.1 Measuring Instruments

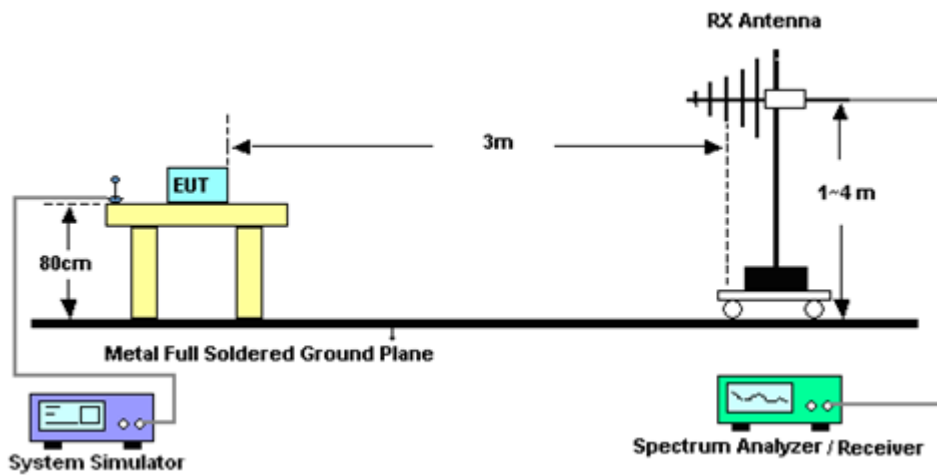
See list of measuring instruments of this test report.

4.1.1 Test Setup

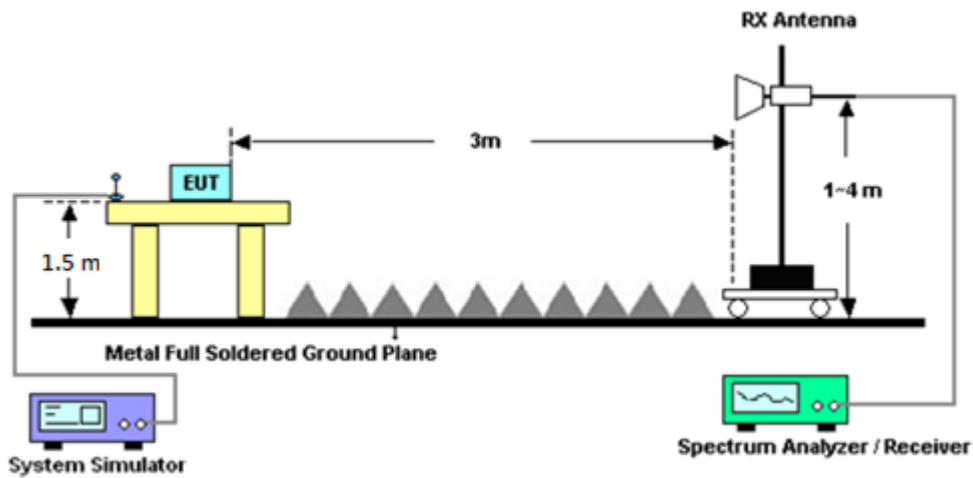
For radiated test below 30MHz



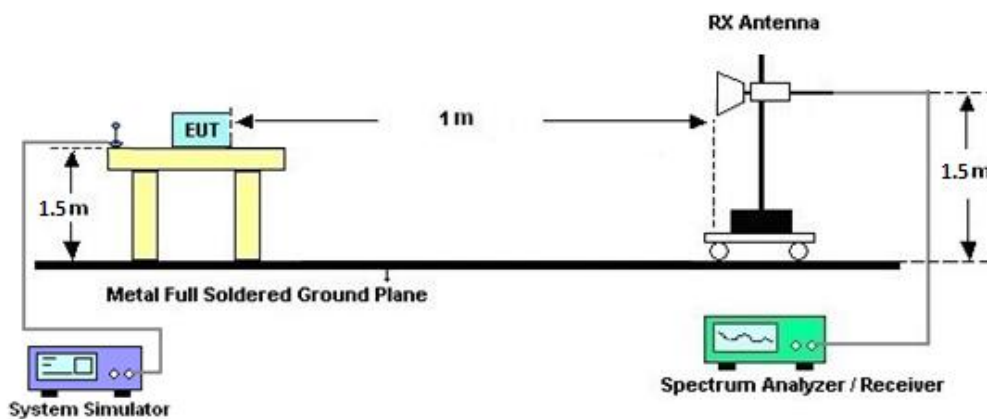
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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

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



4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

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

For LTE Band 41

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

For LTE Band 13

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

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

4.2.2 Test Procedures

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

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

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

For LTE Band 41

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

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

ERP (dBm) = EIRP - 2.15



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 07, 2021	Apr. 26, 2022~ May 11, 2022	Sep. 06, 2022	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz~40GHz	Nov. 30, 2021	Apr. 26, 2022~ May 11, 2022	Nov. 29, 2022	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	BBHA917057 6	18GHz~40GHz	May 21, 2021	Apr. 26, 2022~ May 11, 2022	May 20, 2022	Radiation (03CH16-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 15, 2021	Apr. 26, 2022~ May 11, 2022	Oct. 14, 2022	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Apr. 26, 2022~ May 11, 2022	Jun. 21, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804 012/2	18-40G	Jan. 04, 2022	Apr. 26, 2022~ May 11, 2022	Jan. 03, 2023	Radiation (03CH16-HY)
Signal Generator	Agilent	MG3694C	163401	0.1Hz~40GHz	Feb. 13, 2022	Apr. 26, 2022~ May 11, 2022	Feb. 12, 2023	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	41912 & 05	30MHz to 1GHz	Feb. 06, 2022	Apr. 26, 2022~ May 11, 2022	Feb. 05, 2023	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz to 1GHz	Oct. 09, 2021	Apr. 26, 2022~ May 11, 2022	Oct. 08, 2022	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02114	1G~18GHz	Aug. 04, 2021	Apr. 26, 2022~ May 11, 2022	Aug. 03, 2022	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1212	1G~18GHz	May 18, 2021	Apr. 26, 2022~ May 11, 2022	May 17, 2022	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Jul. 05, 2021	Apr. 26, 2022~ May 11, 2022	Jul. 04, 2022	Radiation (03CH16-HY)
Amplifier	Jet-Power	JPA0118-55-3 03	1710001800 054001	1-18GHz	Jun. 16, 2021	Apr. 26, 2022~ May 11, 2022	Jun. 15, 2022	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 09, 2021	Apr. 26, 2022~ May 11, 2022	Dec. 08, 2022	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A	MY57290111	3Hz~26.5GHz	Dec. 15, 2021	Apr. 26, 2022~ May 11, 2022	Dec. 14, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/4P E	NA	Aug. 28, 2021	Apr. 26, 2022~ May 11, 2022	Aug. 27, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/4P E	NA	Aug. 28, 2021	Apr. 26, 2022~ May 11, 2022	Aug. 27, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5 757	NA	Aug. 28, 2021	Apr. 26, 2022~ May 11, 2022	Aug. 27, 2022	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Apr. 26, 2022~ May 11, 2022	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Apr. 26, 2022~ May 11, 2022	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Apr. 26, 2022~ May 11, 2022	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Apr. 26, 2022~ May 11, 2022	N/A	Radiation (03CH16-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	6201664755	2/3/4G/LTE FDD/TDD with 44/LTE-3C C DLCA/2CC ULCA, CatM1/NB1/NB2	Jul. 21, 2021	Apr. 20, 2022~ May 11, 2022	Jul. 20, 2022	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101908	10Hz~40GHz	Oct. 01, 2021	Apr. 20, 2022~ May 11, 2022	Sep. 30, 2022	Conducted (TH03-HY)
Thermal Chamber	ESPEC	SH-641	92013720	-40°C ~90°C	Sep. 09, 2021	Apr. 20, 2022~ May 11, 2022	Sep. 08, 2022	Conducted (TH03-HY)
DC Power Supply	GW Instek	GPP-2323	GES906037	0V~64V : 0A~6A	Jan. 06, 2022	Apr. 20, 2022~ May 11, 2022	Jan. 05, 2023	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 07, 2022	Apr. 20, 2022~ May 11, 2022	Jan. 06, 2023	Conducted (TH03-HY)



6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.86 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.68 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.00 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & ERP/EIRP)

LTE Band 25 Maximum Average Power [dBm] (GT - LC = 0.45 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.02	22.81	22.79	23.47	0.2223
20	1	49		22.88	22.77	22.80		
20	1	99		22.77	22.76	22.94		
20	50	0		21.87	21.64	21.58		
20	50	24		21.74	21.59	21.78		
20	50	50		21.75	21.61	21.77		
20	100	0		21.68	21.66	21.69		
20	1	0	16-QAM	22.82	22.60	22.61	23.31	0.2143
20	1	49		22.71	22.59	22.83		
20	1	99		22.76	22.44	22.86		
20	50	0		21.81	21.61	21.62		
20	50	24		21.76	21.62	21.78		
20	50	50		21.70	21.61	21.81		
20	100	0		21.76	21.61	21.80		
20	1	0	64-QAM	21.94	21.76	21.68	22.39	0.1734
20	1	49		21.83	21.66	21.90		
20	1	99		21.70	21.63	21.81		
20	50	0		20.80	20.57	20.69		
20	50	24		20.74	20.52	20.74		
20	50	50		20.74	20.64	20.71		
20	100	0		20.74	20.53	20.75		
20	1	0	256-QAM	18.84	18.67	18.83	19.32	0.0855
20	1	49		18.75	18.77	18.69		
20	1	99		18.63	18.67	18.87		
20	50	0		18.87	18.61	18.64		
20	50	24		18.73	18.45	18.81		
20	50	50		18.71	18.64	18.71		
20	100	0		18.69	18.55	18.70		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 0.45 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.98	22.75	22.70	23.43	0.2203
15	1	37		22.87	22.68	22.80		
15	1	74		22.68	22.68	22.94		
15	36	0		21.78	21.63	21.53		
15	36	20		21.73	21.49	21.69		
15	36	39		21.68	21.55	21.71		
15	75	0		21.65	21.64	21.64		
15	1	0	16-QAM	22.75	22.58	22.51	23.27	0.2123
15	1	37		22.65	22.53	22.75		
15	1	74		22.71	22.34	22.82		
15	36	0		21.74	21.61	21.52		
15	36	20		21.68	21.58	21.74		
15	36	39		21.67	21.55	21.79		
15	75	0		21.75	21.51	21.80		
15	1	0	64-QAM	21.88	21.72	21.63	22.33	0.1710
15	1	37		21.76	21.59	21.88		
15	1	74		21.70	21.60	21.79		
15	36	0		20.75	20.54	20.59		
15	36	20		20.67	20.50	20.68		
15	36	39		20.66	20.58	20.69		
15	75	0		20.66	20.45	20.66		
15	1	0	256-QAM	18.75	18.63	18.75	19.31	0.0853
15	1	37		18.74	18.74	18.64		
15	1	74		18.54	18.64	18.86		
15	36	0		18.83	18.57	18.56		
15	36	20		18.70	18.41	18.79		
15	36	39		18.62	18.63	18.62		
15	75	0		18.68	18.52	18.64		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 0.45 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.94	22.76	22.75	23.39	0.2183
10	1	25		22.82	22.73	22.78		
10	1	49		22.69	22.75	22.91		
10	25	0		21.80	21.62	21.49		
10	25	12		21.72	21.50	21.69		
10	25	25		21.67	21.59	21.73		
10	50	0		21.63	21.60	21.66		
10	1	0	16-QAM	22.79	22.51	22.59	23.30	0.2138
10	1	25		22.69	22.50	22.78		
10	1	49		22.69	22.40	22.85		
10	25	0		21.71	21.52	21.61		
10	25	12		21.69	21.58	21.76		
10	25	25		21.70	21.51	21.72		
10	50	0		21.76	21.55	21.77		
10	1	0	64-QAM	21.88	21.70	21.65	22.33	0.1710
10	1	25		21.74	21.60	21.86		
10	1	49		21.70	21.60	21.72		
10	25	0		20.73	20.55	20.61		
10	25	12		20.66	20.50	20.69		
10	25	25		20.69	20.62	20.68		
10	50	0		20.67	20.49	20.68		
10	1	0	256-QAM	18.75	18.62	18.79	19.29	0.0849
10	1	25		18.73	18.67	18.59		
10	1	49		18.63	18.58	18.77		
10	25	0		18.84	18.53	18.56		
10	25	12		18.73	18.38	18.76		
10	25	25		18.65	18.55	18.70		
10	50	0		18.63	18.48	18.67		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 0.45 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.01	22.71	22.78	23.46	0.2218
5	1	12		22.85	22.76	22.75		
5	1	24		22.73	22.72	22.84		
5	12	0		21.85	21.54	21.56		
5	12	7		21.69	21.49	21.69		
5	12	13		21.69	21.55	21.76		
5	25	0		21.65	21.66	21.65		
5	1	0	16-QAM	22.80	22.55	22.53	23.31	0.2143
5	1	12		22.68	22.57	22.81		
5	1	24		22.75	22.42	22.86		
5	12	0		21.81	21.53	21.52		
5	12	7		21.67	21.62	21.76		
5	12	13		21.66	21.54	21.73		
5	25	0		21.76	21.52	21.74		
5	1	0	64-QAM	21.92	21.75	21.58	22.37	0.1726
5	1	12		21.83	21.63	21.86		
5	1	24		21.62	21.53	21.76		
5	12	0		20.78	20.49	20.69		
5	12	7		20.73	20.50	20.68		
5	12	13		20.67	20.56	20.71		
5	25	0		20.64	20.53	20.71		
5	1	0	256-QAM	18.82	18.60	18.81	19.31	0.0853
5	1	12		18.69	18.75	18.68		
5	1	24		18.58	18.61	18.86		
5	12	0		18.83	18.55	18.58		
5	12	7		18.68	18.40	18.74		
5	12	13		18.64	18.62	18.65		
5	25	0		18.67	18.45	18.69		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 0.45 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.98	22.71	22.76	23.43	0.2203
3	1	8		22.82	22.67	22.77		
3	1	14		22.67	22.71	22.84		
3	8	0		21.77	21.62	21.51		
3	8	4		21.73	21.50	21.68		
3	8	7		21.66	21.52	21.74		
3	15	0		21.62	21.65	21.68		
3	1	0	16-QAM	22.72	22.57	22.54	23.31	0.2143
3	1	8		22.70	22.56	22.78		
3	1	14		22.73	22.40	22.86		
3	8	0		21.75	21.61	21.60		
3	8	4		21.67	21.60	21.77		
3	8	7		21.61	21.51	21.81		
3	15	0		21.67	21.51	21.70		
3	1	0	64-QAM	21.88	21.68	21.65	22.33	0.1710
3	1	8		21.83	21.58	21.84		
3	1	14		21.68	21.59	21.77		
3	8	0		20.80	20.57	20.65		
3	8	4		20.66	20.49	20.74		
3	8	7		20.70	20.59	20.61		
3	15	0		20.69	20.46	20.73		
3	1	0	256-QAM	18.76	18.60	18.81	19.31	0.0853
3	1	8		18.75	18.77	18.66		
3	1	14		18.55	18.63	18.77		
3	8	0		18.86	18.57	18.62		
3	8	4		18.70	18.37	18.77		
3	8	7		18.61	18.60	18.64		
3	15	0		18.66	18.53	18.67		
Limit	EIRP < 2W			Result			Pass	



LTE Band 25 Maximum Average Power [dBm] (GT - LC = 0.45 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.98	22.79	22.71	23.43	0.2203
1.4	1	3		22.86	22.77	22.79		
1.4	1	5		22.69	22.73	22.89		
1.4	3	0		22.93	22.73	22.69		
1.4	3	1		22.86	22.67	22.73		
1.4	3	3		22.71	22.66	22.85		
1.4	6	0		21.61	21.58	21.69		
1.4	1	0	16-QAM	22.78	22.55	22.52	23.31	0.2143
1.4	1	3		22.69	22.55	22.79		
1.4	1	5		22.66	22.37	22.76		
1.4	3	0		22.80	22.55	22.55		
1.4	3	1		22.66	22.56	22.74		
1.4	3	3		22.72	22.41	22.86		
1.4	6	0		21.76	21.56	21.73		
1.4	1	0	64-QAM	21.86	21.75	21.66	22.34	0.1714
1.4	1	3		21.81	21.63	21.81		
1.4	1	5		21.60	21.57	21.74		
1.4	3	0		21.89	21.74	21.67		
1.4	3	1		21.83	21.62	21.84		
1.4	3	3		21.61	21.63	21.79		
1.4	6	0		20.65	20.47	20.72		
1.4	1	0	256-QAM	18.74	18.64	18.73	19.31	0.0853
1.4	1	3		18.67	18.76	18.62		
1.4	1	5		18.57	18.64	18.78		
1.4	3	0		18.86	18.53	18.61		
1.4	3	1		18.68	18.35	18.79		
1.4	3	3		18.66	18.57	18.66		
1.4	6	0		18.62	18.45	18.68		
Limit	EIRP < 2W			Result			Pass	



LTE Band 13 Maximum Average Power [dBm] (GT - LC = -0.83 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK		23.04		20.06	0.1014
10	1	25			22.66			
10	1	49			22.91			
10	25	0			21.61			
10	25	12			21.62			
10	25	25			21.57			
10	50	0			21.67			
10	1	0	16-QAM		22.85		19.87	0.0971
10	1	25			22.58			
10	1	49			22.63			
10	25	0			21.62			
10	25	12			21.62			
10	25	25			21.57			
10	50	0			21.56			
10	1	0	64-QAM		21.79		18.91	0.0778
10	1	25			21.89			
10	1	49			21.64			
10	25	0			20.55			
10	25	12			20.62			
10	25	25			20.49			
10	50	0			20.56			
10	1	0	256-QAM		18.57		15.77	0.0378
10	1	25			18.75			
10	1	49			18.58			
10	25	0			18.60			
10	25	12			18.58			
10	25	25			18.63			
10	50	0			18.54			
Limit	ERP < 3W			Result			Pass	



LTE Band 13 Maximum Average Power [dBm] (GT - LC = -0.83 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.91	22.94	22.90	19.96	0.0991
5	1	12		22.58	22.66	22.57		
5	1	24		22.86	22.88	22.79		
5	12	0		21.61	21.53	21.55		
5	12	7		21.50	21.53	21.51		
5	12	13		21.47	21.52	21.53		
5	25	0		21.54	21.59	21.56		
5	1	0	16-QAM	22.74	22.75	22.65	19.77	0.0948
5	1	12		22.52	22.55	22.45		
5	1	24		22.53	22.56	22.54		
5	12	0		21.54	21.59	21.43		
5	12	7		21.47	21.57	21.49		
5	12	13		21.47	21.47	21.39		
5	25	0		21.55	21.47	21.51		
5	1	0	64-QAM	21.67	21.75	21.67	18.86	0.0769
5	1	12		21.80	21.84	21.83		
5	1	24		21.49	21.55	21.47		
5	12	0		20.42	20.51	20.43		
5	12	7		20.45	20.56	20.47		
5	12	13		20.31	20.45	20.38		
5	25	0		20.52	20.51	20.44		
5	1	0	256-QAM	18.48	18.53	18.50	15.74	0.0375
5	1	12		18.67	18.72	18.62		
5	1	24		18.46	18.51	18.43		
5	12	0		18.53	18.57	18.50		
5	12	7		18.50	18.55	18.47		
5	12	13		18.54	18.62	18.47		
5	25	0		18.36	18.53	18.45		
Limit	ERP < 3W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = -0.88 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	22.64	22.51	22.81	19.78	0.0951
15	1	37		22.53	22.47	22.60		
15	1	74		22.53	22.49	22.47		
15	36	0		21.61	21.24	21.61		
15	36	20		21.48	21.40	21.63		
15	36	39		21.59	21.73	21.69		
15	75	0		21.53	21.52	21.59		
15	1	0	16-QAM	21.55	21.44	21.71	18.79	0.0757
15	1	37		21.82	21.54	21.76		
15	1	74		21.47	21.71	21.68		
15	36	0		20.55	20.32	20.58		
15	36	20		20.45	20.47	20.63		
15	36	39		20.63	20.70	20.68		
15	75	0		20.53	20.70	20.52		
15	1	0	64-QAM	20.66	20.61	20.61	17.88	0.0614
15	1	37		20.73	20.61	20.75		
15	1	74		20.91	20.51	20.76		
15	36	0		19.59	19.32	19.67		
15	36	20		19.48	19.73	19.54		
15	36	39		19.61	19.61	19.59		
15	75	0		19.53	19.55	19.55		
15	1	0	256-QAM	17.56	17.47	17.72	14.82	0.0303
15	1	37		17.54	17.69	17.85		
15	1	74		17.81	17.80	17.84		
15	36	0		17.60	17.33	17.60		
15	36	20		17.56	17.42	17.67		
15	36	39		17.61	17.49	17.61		
15	75	0		17.58	17.61	17.63		
Limit	ERP < 7W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = -0.88 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.55	22.54	22.80	19.77	0.0948
10	1	25		22.40	22.43	22.58		
10	1	49		22.52	22.38	22.40		
10	25	0		21.38	21.59	21.55		
10	25	12		21.52	21.28	21.59		
10	25	25		21.58	21.50	21.60		
10	50	0		21.40	21.55	21.54		
10	1	0	16-QAM	21.43	21.64	21.62	18.75	0.0750
10	1	25		21.65	21.75	21.75		
10	1	49		21.78	21.40	21.60		
10	25	0		20.48	20.51	20.58		
10	25	12		20.39	20.37	20.58		
10	25	25		20.38	20.58	20.62		
10	50	0		20.41	20.52	20.52		
10	1	0	64-QAM	20.70	20.65	20.57	17.87	0.0612
10	1	25		20.57	20.68	20.74		
10	1	49		20.65	20.90	20.74		
10	25	0		19.39	19.65	19.60		
10	25	12		19.49	19.42	19.53		
10	25	25		19.48	19.58	19.59		
10	50	0		19.54	19.51	19.50		
10	1	0	256-QAM	17.61	17.46	17.71	14.79	0.0301
10	1	25		17.58	17.51	17.75		
10	1	49		17.74	17.74	17.82		
10	25	0		17.41	17.64	17.55		
10	25	12		17.50	17.38	17.58		
10	25	25		17.48	17.56	17.51		
10	50	0		17.43	17.60	17.56		
Limit	ERP < 7W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = -0.88 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.44	22.57	22.73	19.70	0.0933
5	1	12		22.41	22.45	22.52		
5	1	24		22.46	22.51	22.42		
5	12	0		21.27	21.45	21.52		
5	12	7		21.38	21.37	21.57		
5	12	13		21.53	21.56	21.64		
5	25	0		21.52	21.52	21.52		
5	1	0	16-QAM	21.45	21.43	21.70	18.81	0.0760
5	1	12		21.55	21.81	21.72		
5	1	24		21.84	21.36	21.64		
5	12	0		20.48	20.40	20.54		
5	12	7		20.48	20.36	20.54		
5	12	13		20.56	20.49	20.59		
5	25	0		20.44	20.41	20.52		
5	1	0	64-QAM	20.58	20.59	20.58	17.70	0.0589
5	1	12		20.60	20.67	20.65		
5	1	24		20.54	20.73	20.73		
5	12	0		19.32	19.52	19.59		
5	12	7		19.57	19.40	19.45		
5	12	13		19.42	19.47	19.59		
5	25	0		19.54	19.54	19.48		
5	1	0	256-QAM	17.77	17.52	17.64	14.82	0.0303
5	1	12		17.56	17.56	17.81		
5	1	24		17.53	17.85	17.82		
5	12	0		17.54	17.47	17.60		
5	12	7		17.37	17.53	17.58		
5	12	13		17.55	17.43	17.55		
5	25	0		17.43	17.54	17.61		
Limit	ERP < 7W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = -0.88 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	22.48	22.69	22.74	19.71	0.0935
3	1	8		22.26	22.56	22.56		
3	1	14		22.38	22.40	22.47		
3	8	0		21.33	21.51	21.51		
3	8	4		21.46	21.36	21.54		
3	8	7		21.60	21.58	21.65		
3	15	0		21.52	21.44	21.50		
3	1	0	16-QAM	21.62	21.50	21.69	18.75	0.0750
3	1	8		21.50	21.78	21.68		
3	1	14		21.72	21.33	21.59		
3	8	0		20.36	20.45	20.49		
3	8	4		20.46	20.31	20.60		
3	8	7		20.47	20.47	20.60		
3	15	0		20.50	20.43	20.43		
3	1	0	64-QAM	20.61	20.58	20.59	17.91	0.0618
3	1	8		20.56	20.73	20.70		
3	1	14		20.57	20.94	20.67		
3	8	0		19.36	19.49	19.62		
3	8	4		19.47	19.38	19.49		
3	8	7		19.45	19.54	19.57		
3	15	0		19.54	19.40	19.54		
3	1	0	256-QAM	17.56	17.52	17.64	14.78	0.0301
3	1	8		17.68	17.64	17.76		
3	1	14		17.77	17.81	17.75		
3	8	0		17.37	17.52	17.57		
3	8	4		17.59	17.62	17.60		
3	8	7		17.43	17.47	17.59		
3	15	0		17.38	17.49	17.63		
Limit	ERP < 7W			Result			Pass	



LTE Band 26 Maximum Average Power [dBm] (GT - LC = -0.88 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	22.34	22.63	22.79	19.76	0.0946
1.4	1	3		22.45	22.54	22.55		
1.4	1	5		22.47	22.49	22.37		
1.4	3	0		22.49	22.61	22.71		
1.4	3	1		22.41	22.51	22.53		
1.4	3	3		22.40	22.46	22.43		
1.4	6	0		21.50	21.40	21.50		
1.4	1	0	16-QAM	21.72	21.45	21.69	18.90	0.0776
1.4	1	3		21.57	21.74	21.66		
1.4	1	5		21.93	21.47	21.58		
1.4	3	0		21.67	21.59	21.69		
1.4	3	1		21.65	21.67	21.69		
1.4	3	3		21.68	21.51	21.63		
1.4	6	0		20.46	20.42	20.48		
1.4	1	0	64-QAM	20.45	20.51	20.53	17.92	0.0619
1.4	1	3		20.52	20.76	20.72		
1.4	1	5		20.43	20.95	20.69		
1.4	3	0		20.55	20.50	20.53		
1.4	3	1		20.49	20.72	20.75		
1.4	3	3		20.66	20.94	20.71		
1.4	6	0		19.46	19.53	19.46		
1.4	1	0	256-QAM	17.72	17.45	17.69	14.78	0.0301
1.4	1	3		17.46	17.45	17.79		
1.4	1	5		17.70	17.67	17.79		
1.4	3	0		17.56	17.63	17.63		
1.4	3	1		17.52	17.59	17.81		
1.4	3	3		17.65	17.77	17.78		
1.4	6	0		17.64	17.62	17.62		
Limit	ERP < 7W			Result			Pass	



LTE Band 41 Maximum Average Power [dBm] (GT - LC = -0.53 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	23.15	23.06	23.07	22.62	0.1828
20	1	49		22.92	22.68	22.87		
20	1	99		22.78	22.79	22.69		
20	50	0		22.00	21.87	21.75		
20	50	24		21.98	21.80	21.88		
20	50	50		21.95	21.84	21.91		
20	100	0		21.98	21.89	21.78		
20	1	0	16-QAM	22.87	22.91	22.59	22.38	0.1730
20	1	49		22.90	22.77	22.84		
20	1	99		22.90	22.69	22.66		
20	50	0		21.98	21.86	21.74		
20	50	24		21.96	21.77	21.85		
20	50	50		21.94	21.83	21.89		
20	100	0		21.97	21.88	21.78		
20	1	0	64-QAM	21.87	21.96	21.61	21.43	0.1390
20	1	49		21.82	21.87	21.93		
20	1	99		21.81	21.68	21.61		
20	50	0		20.94	20.86	20.77		
20	50	24		20.99	20.83	20.86		
20	50	50		20.94	20.86	20.89		
20	100	0		20.98	20.92	20.74		
20	1	0	256-QAM	18.91	18.96	18.48	18.47	0.0703
20	1	49		18.88	18.79	18.89		
20	1	99		18.96	18.88	18.71		
20	50	0		19.00	18.87	18.77		
20	50	24		18.97	18.84	18.85		
20	50	50		18.96	18.81	18.87		
20	100	0		18.98	18.89	18.78		
Limit	EIRP < 2W			Result			Pass	



LTE Band 41 Maximum Average Power [dBm] (GT - LC = -0.53 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	23.11	23.01	23.03	22.58	0.1811
15	1	37		22.87	22.61	22.77		
15	1	74		22.77	22.72	22.63		
15	36	0		21.99	21.81	21.73		
15	36	20		21.92	21.74	21.85		
15	36	39		21.92	21.84	21.88		
15	75	0		21.89	21.89	21.75		
15	1	0	16-QAM	22.78	22.89	22.57	22.36	0.1722
15	1	37		22.89	22.71	22.83		
15	1	74		22.88	22.65	22.64		
15	36	0		21.98	21.80	21.69		
15	36	20		21.94	21.74	21.80		
15	36	39		21.93	21.83	21.85		
15	75	0		21.94	21.84	21.72		
15	1	0	64-QAM	21.77	21.89	21.61	21.36	0.1368
15	1	37		21.73	21.79	21.87		
15	1	74		21.72	21.67	21.57		
15	36	0		20.90	20.82	20.67		
15	36	20		20.95	20.75	20.78		
15	36	39		20.84	20.78	20.81		
15	75	0		20.89	20.86	20.74		
15	1	0	256-QAM	18.86	18.92	18.47	18.44	0.0698
15	1	37		18.80	18.69	18.79		
15	1	74		18.86	18.81	18.65		
15	36	0		18.91	18.79	18.70		
15	36	20		18.97	18.83	18.80		
15	36	39		18.94	18.80	18.84		
15	75	0		18.93	18.80	18.69		
Limit	EIRP < 2W			Result			Pass	



LTE Band 41 Maximum Average Power [dBm] (GT - LC = -0.53 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	23.14	22.96	23.06	22.61	0.1824
10	1	25		22.84	22.59	22.82		
10	1	49		22.78	22.71	22.63		
10	25	0		21.99	21.84	21.69		
10	25	12		21.90	21.73	21.81		
10	25	25		21.95	21.74	21.90		
10	50	0		21.98	21.84	21.78		
10	1	0	16-QAM	22.80	22.86	22.55	22.34	0.1714
10	1	25		22.87	22.70	22.80		
10	1	49		22.83	22.60	22.61		
10	25	0		21.90	21.78	21.68		
10	25	12		21.87	21.73	21.85		
10	25	25		21.88	21.74	21.82		
10	50	0		21.87	21.78	21.71		
10	1	0	64-QAM	21.80	21.95	21.53	21.42	0.1387
10	1	25		21.82	21.81	21.92		
10	1	49		21.79	21.58	21.54		
10	25	0		20.90	20.77	20.72		
10	25	12		20.92	20.80	20.76		
10	25	25		20.93	20.81	20.80		
10	50	0		20.90	20.82	20.74		
10	1	0	256-QAM	18.87	18.86	18.48	18.44	0.0698
10	1	25		18.80	18.75	18.80		
10	1	49		18.90	18.79	18.66		
10	25	0		18.97	18.78	18.77		
10	25	12		18.90	18.83	18.76		
10	25	25		18.93	18.81	18.77		
10	50	0		18.97	18.83	18.76		
Limit	EIRP < 2W			Result			Pass	



LTE Band 41 Maximum Average Power [dBm] (GT - LC = -0.53 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	23.13	22.97	23.05	22.60	0.1820
5	1	12		22.86	22.64	22.87		
5	1	24		22.77	22.78	22.60		
5	12	0		21.98	21.87	21.68		
5	12	7		21.94	21.77	21.86		
5	12	13		21.90	21.80	21.81		
5	25	0		21.94	21.87	21.68		
5	1	0	16-QAM	22.78	22.84	22.51	22.32	0.1706
5	1	12		22.85	22.73	22.82		
5	1	24		22.80	22.59	22.58		
5	12	0		21.89	21.84	21.69		
5	12	7		21.91	21.77	21.76		
5	12	13		21.87	21.75	21.88		
5	25	0		21.90	21.83	21.77		
5	1	0	64-QAM	21.80	21.92	21.55	21.39	0.1377
5	1	12		21.79	21.79	21.90		
5	1	24		21.73	21.58	21.61		
5	12	0		20.84	20.86	20.75		
5	12	7		20.96	20.83	20.84		
5	12	13		20.89	20.76	20.84		
5	25	0		20.88	20.88	20.66		
5	1	0	256-QAM	18.83	18.88	18.40	18.47	0.0703
5	1	12		18.81	18.72	18.82		
5	1	24		18.96	18.82	18.67		
5	12	0		19.00	18.78	18.74		
5	12	7		18.95	18.79	18.81		
5	12	13		18.87	18.78	18.78		
5	25	0		18.97	18.81	18.71		
Limit	EIRP < 2W			Result			Pass	



LTE Band 71 Maximum Average Power [dBm] (GT - LC = -0.83 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
20	1	0	QPSK	22.69	22.90	23.05	20.07	0.1016
20	1	49		22.18	22.42	22.60		
20	1	99		22.13	22.36	22.37		
20	50	0		21.13	21.10	21.20		
20	50	24		21.19	21.15	21.23		
20	50	50		21.15	21.19	21.28		
20	100	0		21.14	21.12	21.20		
20	1	0	16-QAM	21.52	21.82	21.79	18.95	0.0785
20	1	49		21.64	21.93	21.75		
20	1	99		21.62	21.74	21.78		
20	50	0		20.64	20.62	20.68		
20	50	24		20.63	20.62	20.65		
20	50	50		20.57	20.73	20.80		
20	100	0		20.72	20.66	20.70		
20	1	0	64-QAM	20.72	20.89	20.85	18.04	0.0637
20	1	49		21.02	20.77	20.86		
20	1	99		20.78	20.83	20.79		
20	50	0		19.58	19.67	19.72		
20	50	24		19.58	19.66	19.72		
20	50	50		19.60	19.75	19.69		
20	100	0		19.63	19.67	19.74		
20	1	0	256-QAM	17.68	17.66	17.72	14.97	0.0314
20	1	49		17.78	17.57	17.79		
20	1	99		17.76	17.70	17.95		
20	50	0		17.57	17.67	17.64		
20	50	24		17.66	17.73	17.76		
20	50	50		17.73	17.75	17.70		
20	100	0		17.74	17.66	17.73		
Limit	ERP < 3W			Result			Pass	



LTE Band 71 Maximum Average Power [dBm] (GT - LC = -0.83 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
15	1	0	QPSK	22.66	22.82	23.02	20.04	0.1009
15	1	37		22.08	22.38	22.55		
15	1	74		22.07	22.35	22.30		
15	36	0		21.08	21.10	21.17		
15	36	20		21.12	21.06	21.13		
15	36	39		21.05	21.16	21.26		
15	75	0		21.13	21.11	21.10		
15	1	0	16-QAM	21.44	21.74	21.72	18.86	0.0769
15	1	37		21.55	21.84	21.68		
15	1	74		21.62	21.68	21.75		
15	36	0		20.54	20.53	20.58		
15	36	20		20.60	20.54	20.55		
15	36	39		20.53	20.68	20.76		
15	75	0		20.63	20.60	20.68		
15	1	0	64-QAM	20.66	20.82	20.78	18.03	0.0635
15	1	37		21.01	20.69	20.76		
15	1	74		20.76	20.82	20.76		
15	36	0		19.50	19.58	19.69		
15	36	20		19.56	19.62	19.62		
15	36	39		19.58	19.66	19.68		
15	75	0		19.57	19.59	19.74		
15	1	0	256-QAM	17.61	17.63	17.72	14.93	0.0311
15	1	37		17.73	17.52	17.73		
15	1	74		17.66	17.60	17.91		
15	36	0		17.57	17.65	17.64		
15	36	20		17.66	17.65	17.74		
15	36	39		17.66	17.68	17.65		
15	75	0		17.73	17.60	17.71		
Limit	ERP < 3W			Result			Pass	



LTE Band 71 Maximum Average Power [dBm] (GT - LC = -0.83 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.64	22.89	23.02	20.04	0.1009
10	1	25		22.14	22.34	22.52		
10	1	49		22.04	22.32	22.29		
10	25	0		21.07	21.03	21.11		
10	25	12		21.12	21.09	21.18		
10	25	25		21.11	21.15	21.28		
10	50	0		21.10	21.04	21.20		
10	1	0	16-QAM	21.51	21.72	21.78	18.87	0.0771
10	1	25		21.55	21.85	21.70		
10	1	49		21.53	21.74	21.76		
10	25	0		20.55	20.57	20.66		
10	25	12		20.62	20.58	20.60		
10	25	25		20.47	20.66	20.79		
10	50	0		20.72	20.56	20.60		
10	1	0	64-QAM	20.65	20.84	20.79	18.03	0.0635
10	1	25		21.01	20.76	20.77		
10	1	49		20.76	20.73	20.76		
10	25	0		19.55	19.58	19.67		
10	25	12		19.55	19.66	19.64		
10	25	25		19.53	19.71	19.60		
10	50	0		19.58	19.63	19.67		
10	1	0	256-QAM	17.67	17.57	17.70	14.93	0.0311
10	1	25		17.77	17.53	17.76		
10	1	49		17.76	17.64	17.91		
10	25	0		17.54	17.66	17.59		
10	25	12		17.58	17.69	17.72		
10	25	25		17.67	17.73	17.61		
10	50	0		17.69	17.61	17.72		
Limit	ERP < 3W			Result			Pass	



LTE Band 71 Maximum Average Power [dBm] (GT - LC = -0.83 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.63	22.84	23.03	20.05	0.1012
5	1	12		22.14	22.34	22.50		
5	1	24		22.03	22.33	22.37		
5	12	0		21.03	21.01	21.17		
5	12	7		21.15	21.10	21.17		
5	12	13		21.07	21.13	21.27		
5	25	0		21.08	21.05	21.16		
5	1	0	16-QAM	21.49	21.82	21.76	18.90	0.0776
5	1	12		21.58	21.88	21.75		
5	1	24		21.55	21.72	21.78		
5	12	0		20.61	20.54	20.63		
5	12	7		20.60	20.54	20.57		
5	12	13		20.56	20.64	20.78		
5	25	0		20.71	20.57	20.64		
5	1	0	64-QAM	20.67	20.88	20.85	18.00	0.0631
5	1	12		20.98	20.72	20.78		
5	1	24		20.68	20.78	20.78		
5	12	0		19.54	19.60	19.68		
5	12	7		19.50	19.56	19.69		
5	12	13		19.53	19.74	19.60		
5	25	0		19.56	19.65	19.68		
5	1	0	256-QAM	17.65	17.57	17.72	14.97	0.0314
5	1	12		17.78	17.54	17.79		
5	1	24		17.73	17.67	17.95		
5	12	0		17.49	17.66	17.62		
5	12	7		17.63	17.71	17.70		
5	12	13		17.73	17.68	17.66		
5	25	0		17.66	17.63	17.69		
Limit	ERP < 3W			Result			Pass	



LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = -0.53 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+20	100	0	100	0	QPSK	22.42	21.99	21.43	23.55	0.2265
20+20	1	0	1	99		15.14	15.81	14.73		
20+20	1	99	1	0		24.08	23.91	23.23		
20+20	100	0	100	0	16-QAM	21.43	20.99	20.45	23.29	0.2133
20+20	1	0	1	99		15.77	15.69	15.34		
20+20	1	99	1	0		23.82	22.89	22.95		
20+20	100	0	100	0	64-QAM	21.41	20.98	20.47	22.13	0.1633
20+20	1	0	1	99		15.63	15.77	15.19		
20+20	1	99	1	0		22.66	21.97	21.88		
20+20	100	0	100	0	256-QAM	19.17	19.17	18.26	20.39	0.1094
20+20	1	0	1	99		15.96	15.42	14.78		
20+20	1	99	1	0		19.30	20.92	18.49		
20+15	100	0	75	0	QPSK	22.36	21.95	21.58	23.67	0.2328
20+15	1	0	1	74		15.66	15.71	14.98		
20+15	1	99	1	0		24.20	23.84	23.46		
20+15	100	0	75	0	16-QAM	21.51	20.98	20.65	23.52	0.2249
20+15	1	0	1	74		16.31	15.66	15.54		
20+15	1	99	1	0		24.05	22.76	23.18		
20+15	100	0	75	0	64-QAM	21.48	20.96	20.67	22.22	0.1667
20+15	1	0	1	74		16.00	15.45	15.31		
20+15	1	99	1	0		22.75	21.69	22.01		
20+15	100	0	75	0	256-QAM	19.22	19.13	18.24	20.24	0.1057
20+15	1	0	1	74		16.07	15.28	14.83		
20+15	1	99	1	0		19.41	20.77	18.61		
15+20	75	0	100	0	QPSK	22.47	21.93	21.53	23.62	0.2301
15+20	1	0	1	99		15.54	15.60	14.96		
15+20	1	74	1	0		24.15	23.72	23.43		
15+20	75	0	100	0	16-QAM	21.50	20.96	20.58	23.36	0.2168
15+20	1	0	1	99		16.23	15.56	15.62		
15+20	1	74	1	0		23.89	23.28	23.14		
15+20	75	0	100	0	64-QAM	21.49	20.95	20.60	22.12	0.1629
15+20	1	0	1	99		15.92	15.43	15.46		
15+20	1	74	1	0		22.63	22.65	21.89		
15+20	75	0	100	0	256-QAM	19.16	19.13	18.22	21.36	0.1368
15+20	1	0	1	99		15.86	15.62	14.85		
15+20	1	74	1	0		19.29	21.89	18.59		
Limit	EIRP < 2W					Result			Pass	



LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = -0.53 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+10	100	0	50	0	QPSK	22.12	21.86	21.45	23.35	0.2163
20+10	1	0	1	49		15.71	15.58	14.87		
20+10	1	99	1	0		23.88	23.71	23.34		
20+10	100	0	50	0	16-QAM	21.19	20.90	20.46	23.06	0.2023
20+10	1	0	1	49		16.21	15.44	15.47		
20+10	1	99	1	0		23.59	23.22	23.10		
20+10	100	0	50	0	64-QAM	21.25	20.77	20.50	22.03	0.1596
20+10	1	0	1	49		16.03	15.36	15.28		
20+10	1	99	1	0		22.45	22.56	21.93		
20+10	100	0	50	0	256-QAM	19.16	19.17	18.25	21.18	0.1312
20+10	1	0	1	49		15.83	15.58	15.03		
20+10	1	99	1	0		19.39	21.71	18.62		
10+20	50	0	100	0	QPSK	22.28	21.89	21.24	23.43	0.2203
10+20	1	0	1	99		15.71	15.57	14.76		
10+20	1	49	1	0		23.96	23.74	23.08		
10+20	50	0	100	0	16-QAM	21.25	20.93	20.31	23.23	0.2104
10+20	1	0	1	99		16.26	15.45	15.29		
10+20	1	49	1	0		23.76	23.26	22.84		
10+20	50	0	100	0	64-QAM	21.26	20.82	20.31	22.16	0.1644
10+20	1	0	1	99		16.06	15.36	15.10		
10+20	1	49	1	0		22.64	22.69	21.62		
10+20	50	0	100	0	256-QAM	19.36	19.18	18.29	21.45	0.1396
10+20	1	0	1	99		15.41	15.55	15.09		
10+20	1	49	1	0		19.58	21.98	18.56		
20+5	100	0	25	0	QPSK	22.10	21.95	21.45	23.32	0.2148
20+5	1	0	1	24		15.41	15.01	14.89		
20+5	1	99	1	0		23.85	23.61	23.31		
20+5	100	0	25	0	16-QAM	21.13	20.97	20.46	22.99	0.1991
20+5	1	0	1	24		16.02	15.23	15.39		
20+5	1	99	1	0		23.52	23.03	23.01		
20+5	100	0	25	0	64-QAM	21.14	20.98	20.49	22.03	0.1596
20+5	1	0	1	24		15.78	15.11	15.20		
20+5	1	99	1	0		22.53	22.56	21.79		
20+5	100	0	25	0	256-QAM	19.15	19.19	18.26	19.44	0.0879
20+5	1	0	1	24		15.86	15.28	14.87		
20+5	1	99	1	0		19.44	19.97	18.62		
Limit	EIRP < 2W					Result			Pass	



LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = -0.53 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
5+20	25	0	100	0	QPSK	22.15	21.94	21.32	23.39	0.2183
5+20	1	0	1	99		15.40	15.40	14.78		
5+20	1	24	1	0		23.92	23.70	23.16		
5+20	25	0	100	0	16-QAM	21.18	21.02	20.38	22.99	0.1991
5+20	1	0	1	99		16.03	15.33	15.42		
5+20	1	24	1	0		23.52	23.23	22.76		
5+20	25	0	100	0	64-QAM	21.16	20.99	20.39	22.12	0.1629
5+20	1	0	1	99		15.83	15.28	15.36		
5+20	1	24	1	0		22.50	22.65	21.71		
5+20	25	0	100	0	256-QAM	19.36	19.18	18.33	19.04	0.0802
5+20	1	0	1	99		16.11	15.13	15.30		
5+20	1	24	1	0		19.53	19.57	18.49		
15+10	75	0	50	0	QPSK	22.22	21.89	21.41	23.33	0.2153
15+10	1	0	1	49		15.60	15.47	14.89		
15+10	1	74	1	0		23.86	23.62	23.28		
15+10	75	0	50	0	16-QAM	21.27	20.94	20.43	23.18	0.2080
15+10	1	0	1	49		16.31	15.36	15.43		
15+10	1	74	1	0		23.71	23.24	23.02		
15+10	75	0	50	0	64-QAM	21.24	20.93	20.46	22.33	0.1710
15+10	1	0	1	49		16.06	15.58	15.28		
15+10	1	74	1	0		22.36	22.86	21.84		
15+10	75	0	50	0	256-QAM	19.29	19.17	18.45	19.13	0.0818
15+10	1	0	1	49		15.97	15.41	15.07		
15+10	1	74	1	0		19.42	19.66	18.68		
10+15	50	0	75	0	QPSK	22.19	21.92	21.50	23.38	0.2178
10+15	1	0	1	74		15.49	15.44	14.95		
10+15	1	49	1	0		23.91	23.62	23.30		
10+15	50	0	75	0	16-QAM	21.19	20.96	20.54	23.04	0.2014
10+15	1	0	1	74		16.21	15.46	15.56		
10+15	1	49	1	0		23.57	23.13	23.04		
10+15	50	0	75	0	64-QAM	21.24	20.93	20.57	22.29	0.1694
10+15	1	0	1	74		15.91	15.36	15.41		
10+15	1	49	1	0		22.45	22.82	21.85		
10+15	50	0	75	0	256-QAM	19.28	19.20	18.41	19.09	0.0811
10+15	1	0	1	74		16.05	15.22	15.21		
10+15	1	49	1	0		19.47	19.62	18.69		
Limit	EIRP < 2W					Result			Pass	



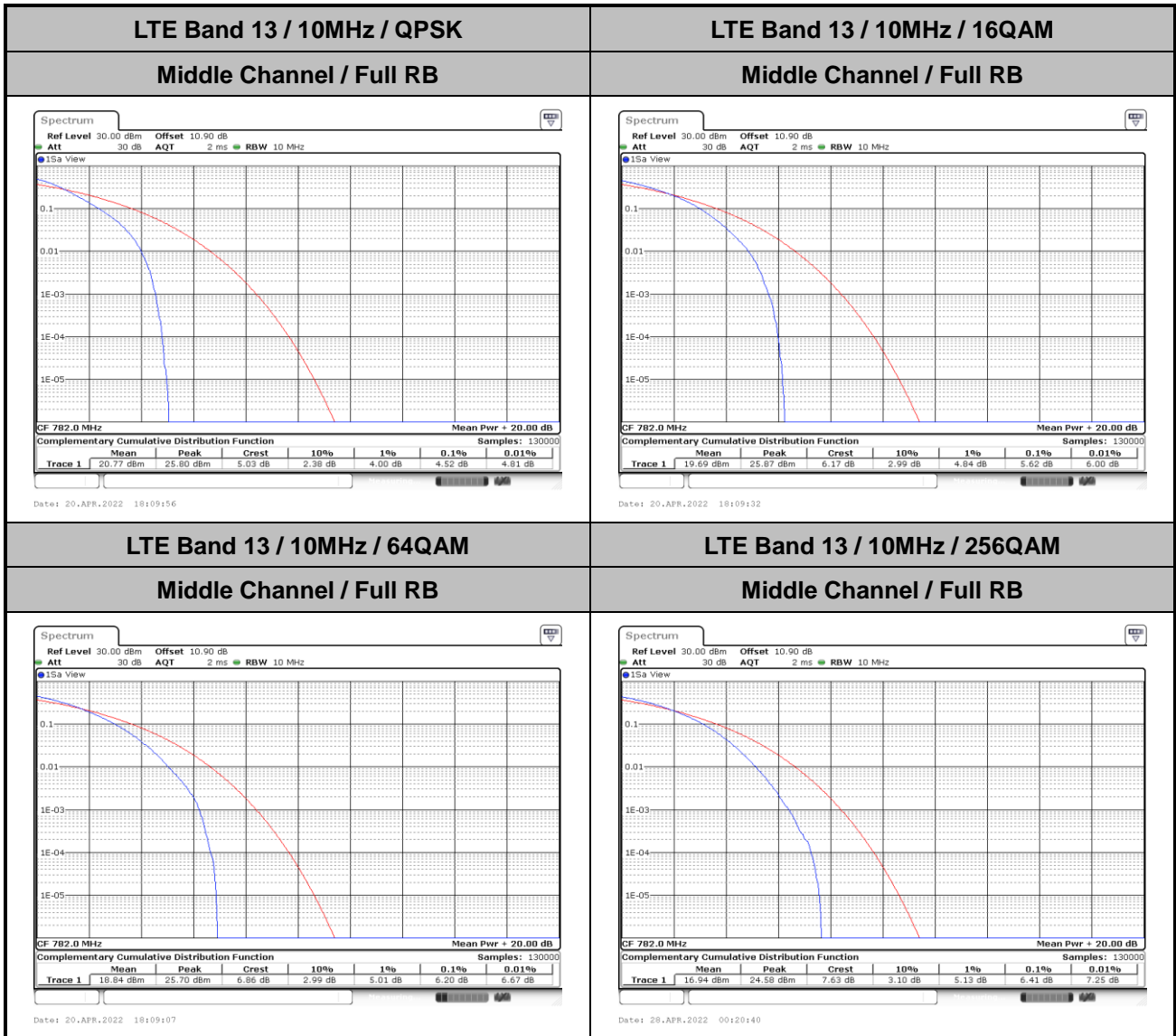
LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = -0.53 dB)										
15+15	75	0	75	0	QPSK	22.40	21.93	21.62	23.59	0.2286
15+15	1	0	1	74		15.49	15.56	15.00		
15+15	1	74	1	0		24.12	23.71	23.41		
15+15	75	0	75	0	16-QAM	21.42	20.95	20.62	23.21	0.2094
15+15	1	0	1	74		16.13	15.41	15.67		
15+15	1	74	1	0		23.74	23.26	23.17		
15+15	75	0	75	0	64-QAM	21.46	20.93	20.65	22.19	0.1656
15+15	1	0	1	74		15.88	15.36	15.41		
15+15	1	74	1	0		22.72	22.64	21.98		
15+15	75	0	75	0	256-QAM	19.32	19.18	18.40	19.03	0.0800
15+15	1	0	1	74		15.29	15.17	14.97		
15+15	1	74	1	0		19.32	19.56	18.76		
Limit	EIRP < 2W					Result			Pass	



LTE Band 13

Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.52	5.62	6.20	6.41	PASS





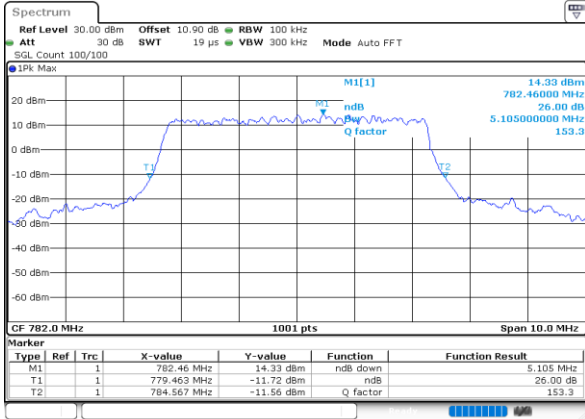
26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	5.11	5.05	9.87	10.01	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.91	4.88	9.95	9.79	-	-	-	-



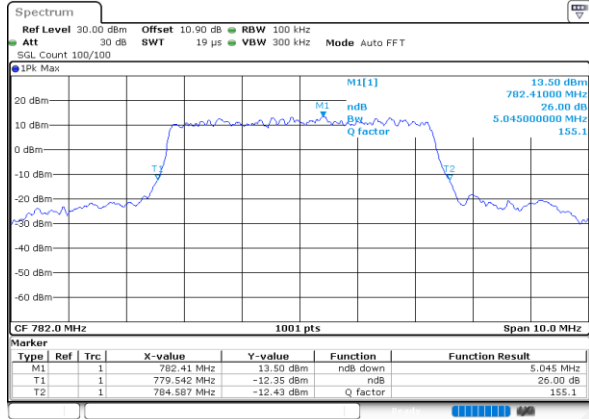
LTE Band 13

Middle Channel / 5MHz / QPSK



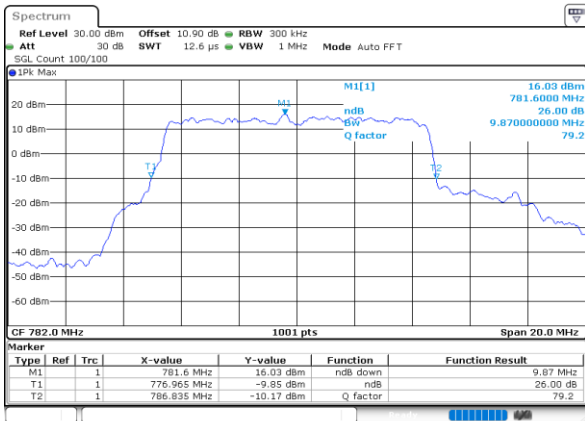
Date: 20.APR.2022 17:44:03

Middle Channel / 5MHz / 16QAM



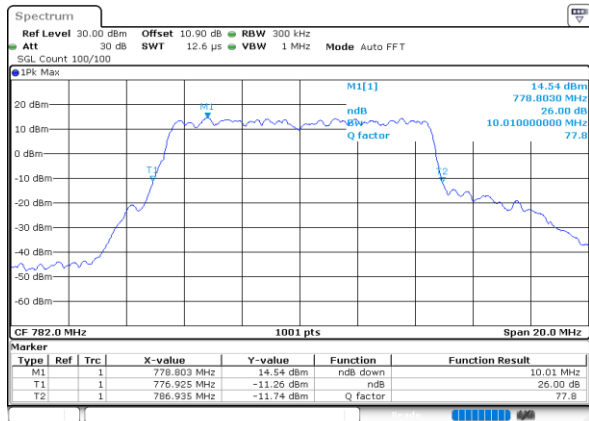
Date: 20.APR.2022 17:44:27

Middle Channel / 10MHz / QPSK



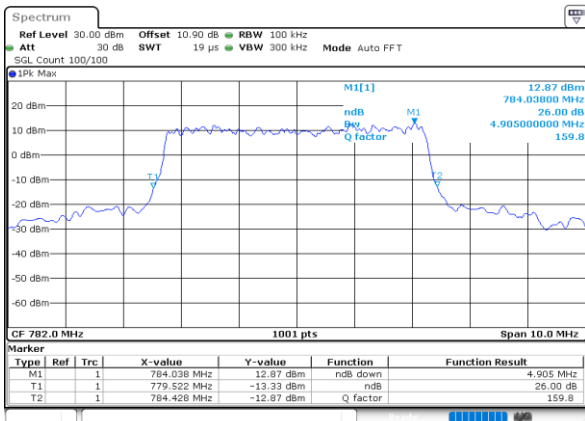
Date: 20.APR.2022 17:57:16

Middle Channel / 10MHz / 16QAM



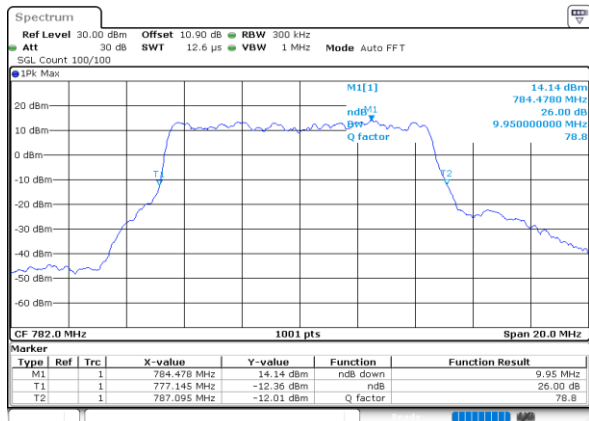
Date: 20.APR.2022 17:56:52

Middle Channel / 5MHz / 64QAM



Date: 20.APR.2022 17:53:11

Middle Channel / 10MHz / 64QAM



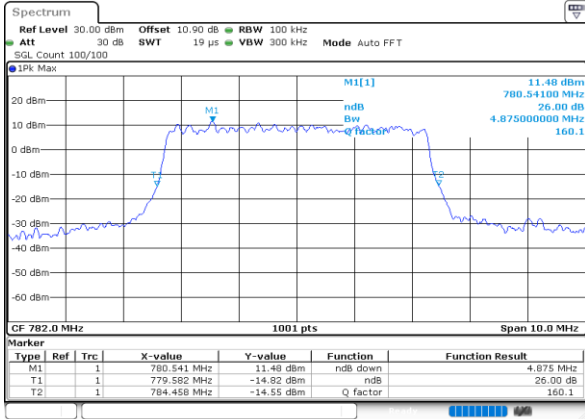
Date: 20.APR.2022 18:05:33



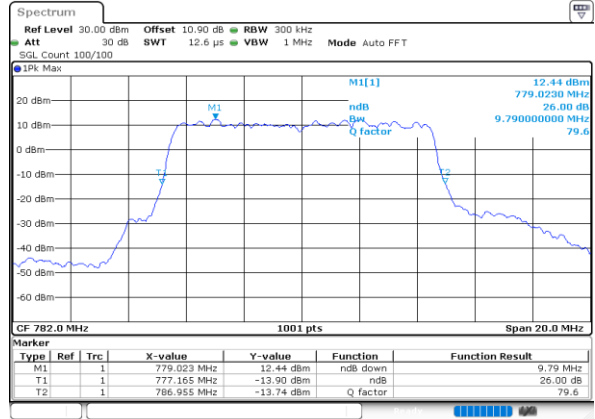
LTE Band 13

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 28.APR.2022 00:04:31



Date: 28.APR.2022 00:17:06



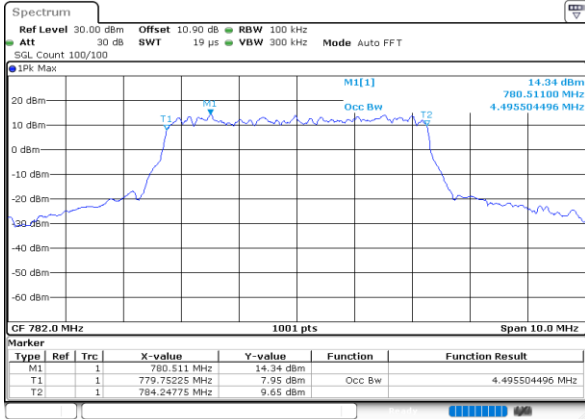
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.50	4.50	9.01	9.01	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.50	4.52	8.95	9.09	-	-	-	-



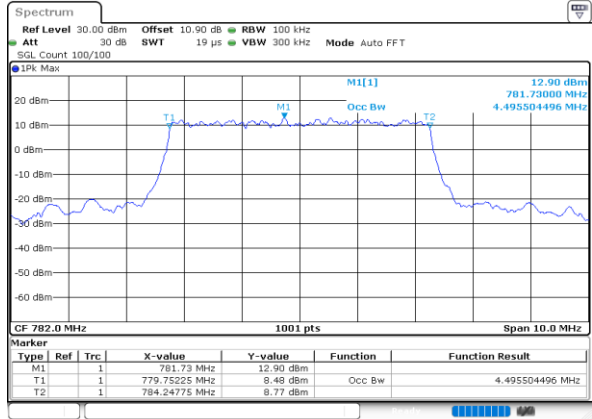
LTE Band 13

Middle Channel / 5MHz / QPSK



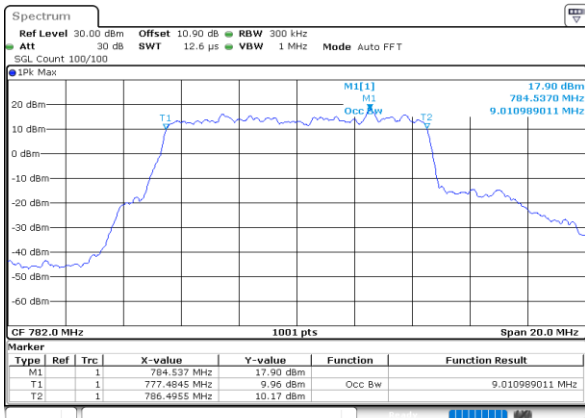
Date: 20.APR.2022 17:45:14

Middle Channel / 5MHz / 16QAM



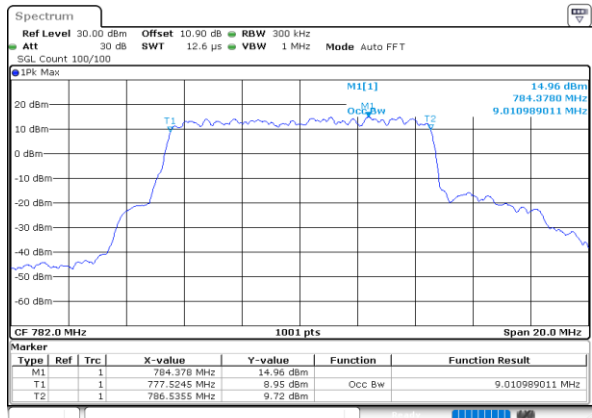
Date: 20.APR.2022 17:44:50

Middle Channel / 10MHz / QPSK



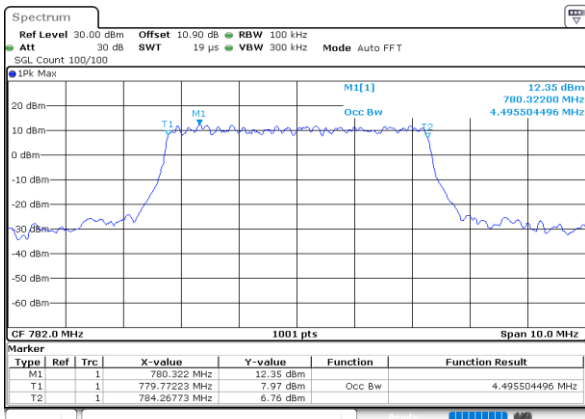
Date: 20.APR.2022 17:56:06

Middle Channel / 10MHz / 16QAM



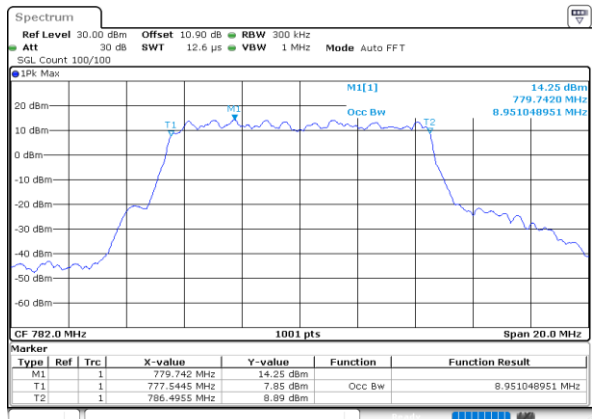
Date: 20.APR.2022 17:56:29

Middle Channel / 5MHz / 64QAM



Date: 20.APR.2022 17:53:35

Middle Channel / 10MHz / 64QAM



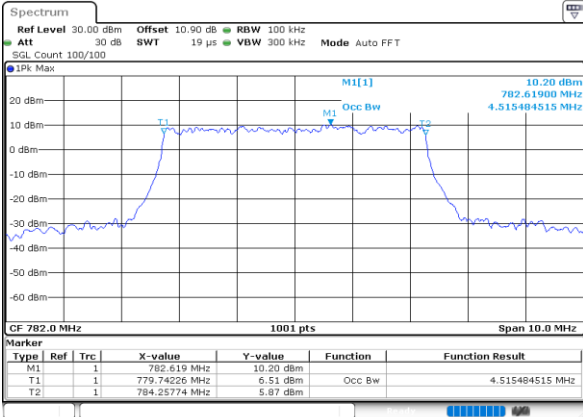
Date: 20.APR.2022 18:05:10



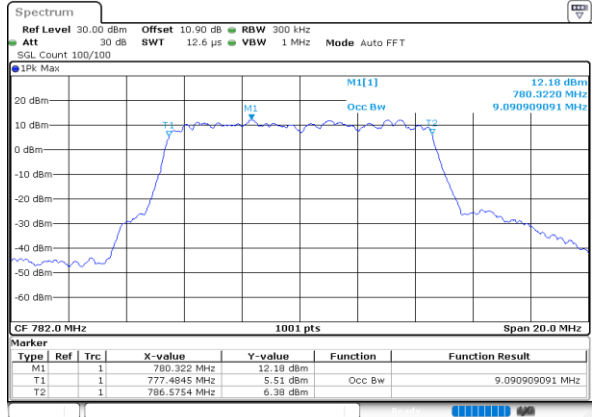
LTE Band 13

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 28.APR.2022 00:04:54



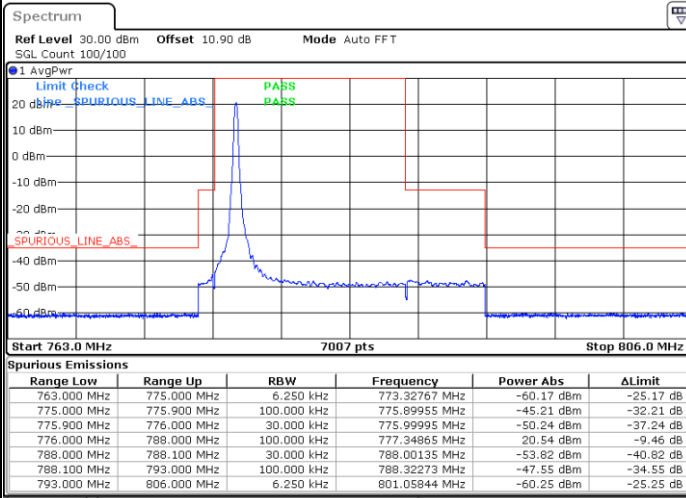
Date: 28.APR.2022 00:16:43



Conducted Band Edge

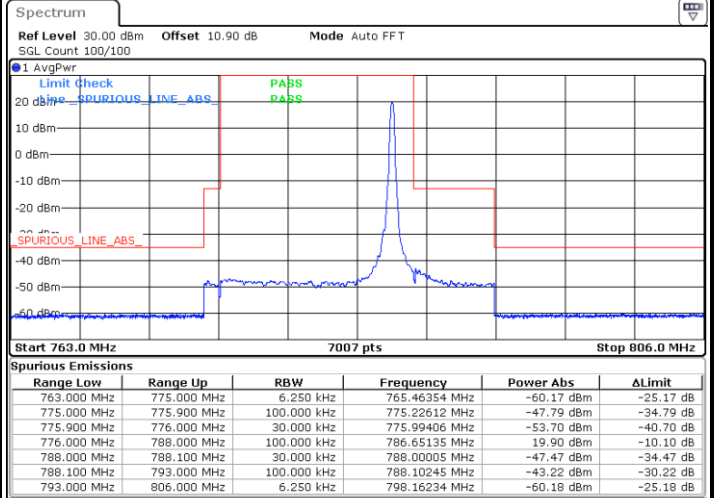
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



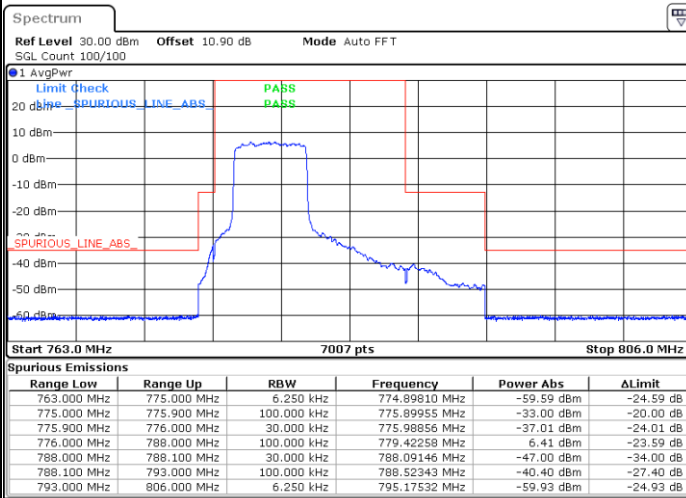
Date: 20.APR.2022 17:41:14

Highest Band Edge / 1 RB



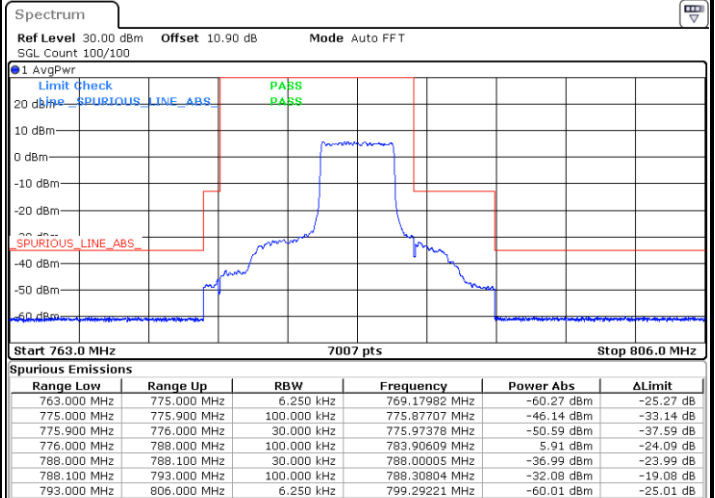
Date: 20.APR.2022 17:49:27

Lowest Band Edge / Full RB



Date: 20.APR.2022 17:38:04

Highest Band Edge / Full RB



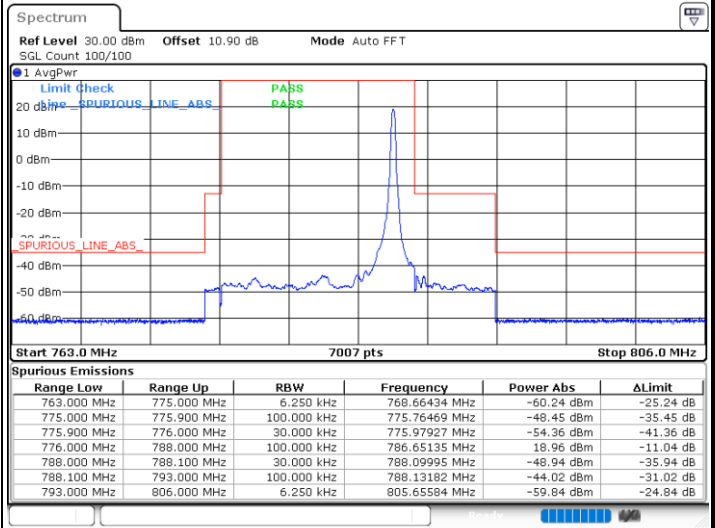
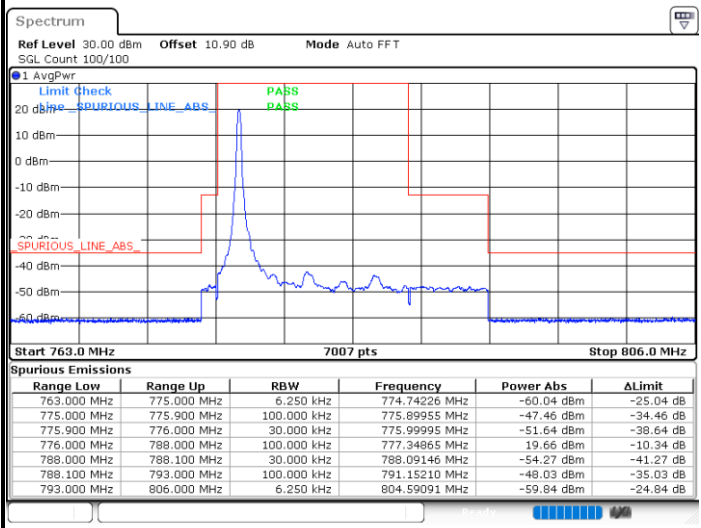
Date: 20.APR.2022 17:46:16



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

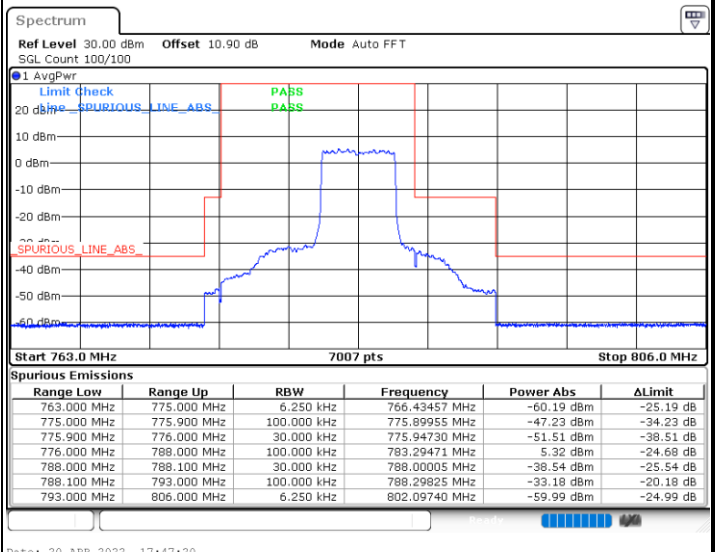
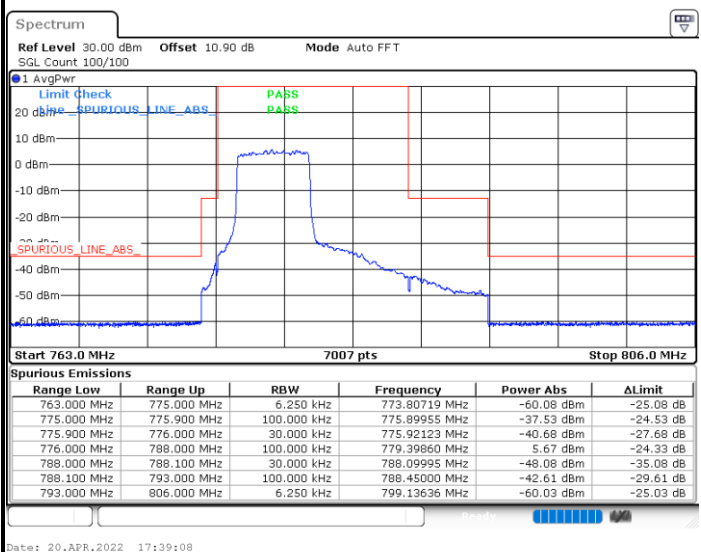


Date: 20.APR.2022 17:40:11

Date: 20.APR.2022 17:48:23

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 20.APR.2022 17:39:08

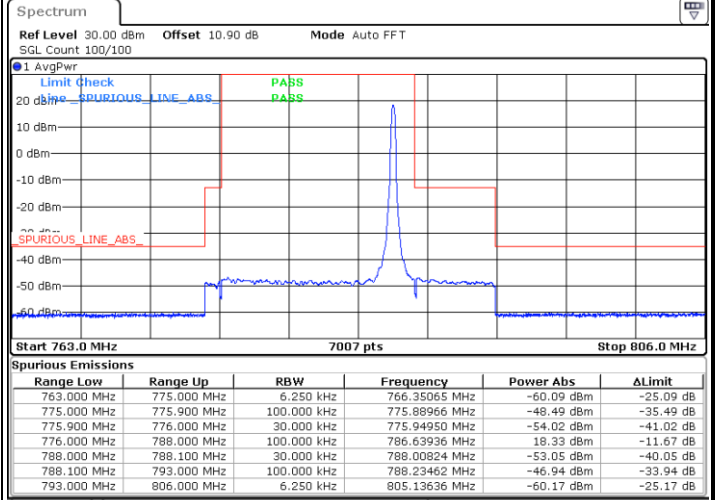
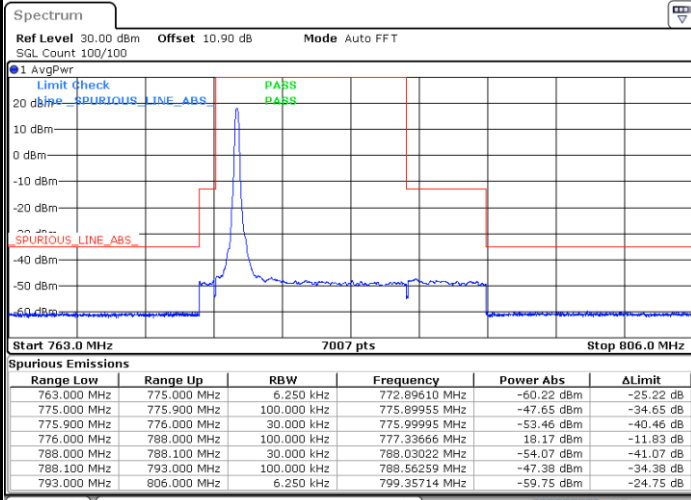
Date: 20.APR.2022 17:47:20



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

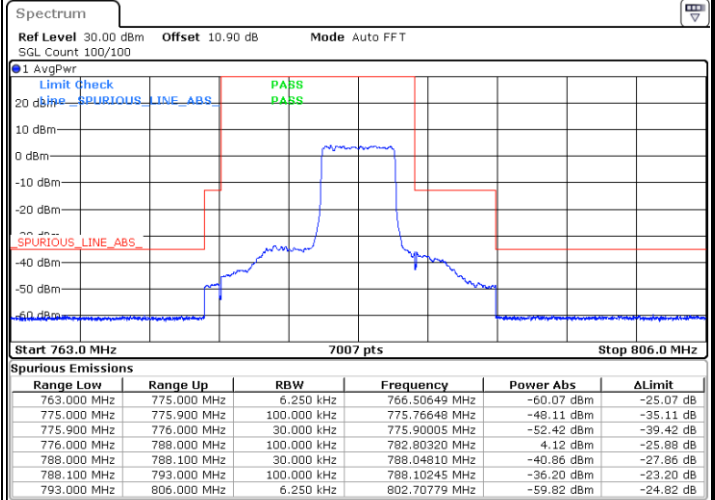
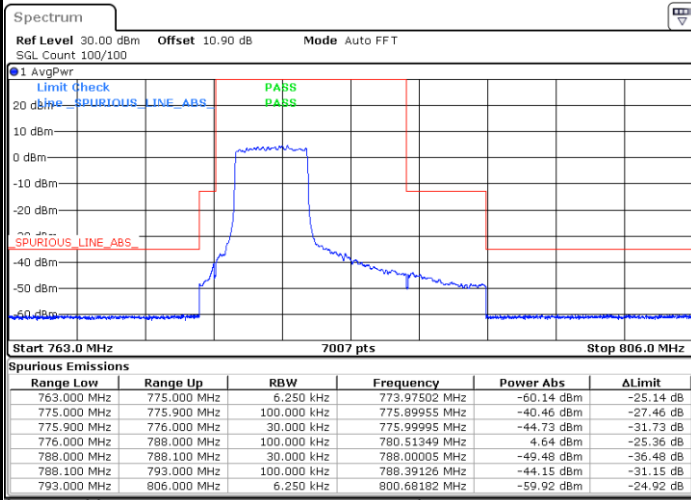


Date: 20.APR.2022 17:52:47

Date: 20.APR.2022 17:55:41

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 20.APR.2022 17:51:44

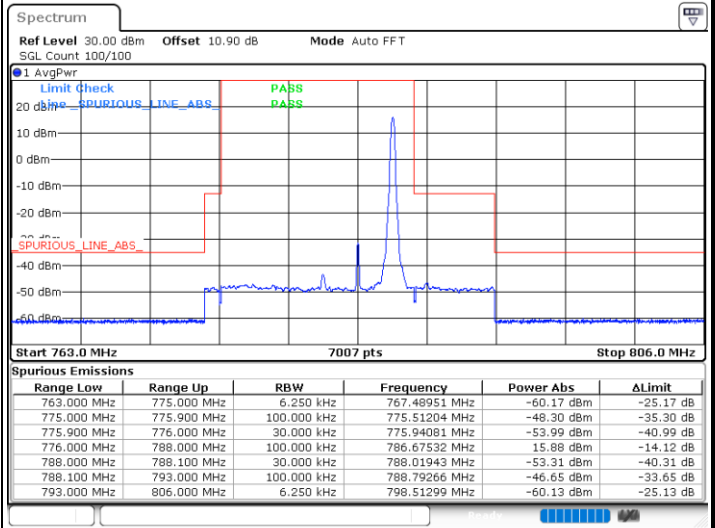
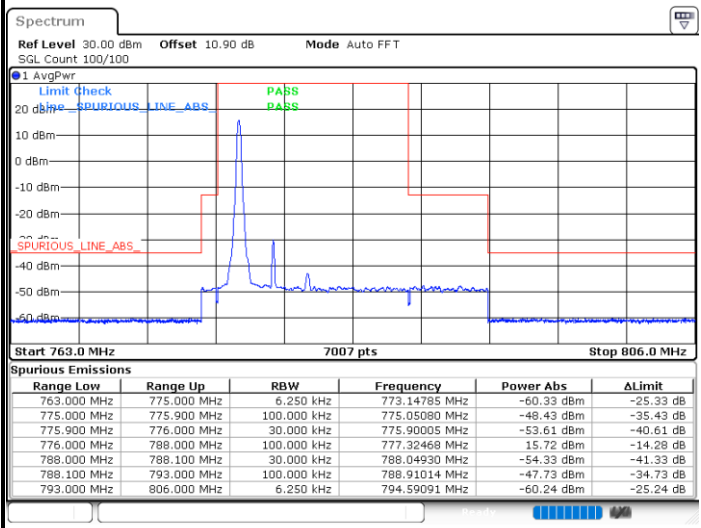
Date: 20.APR.2022 17:54:37



LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

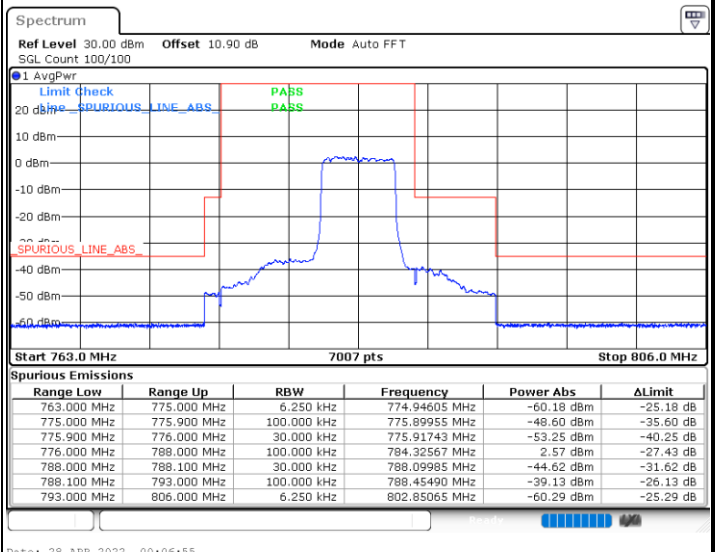
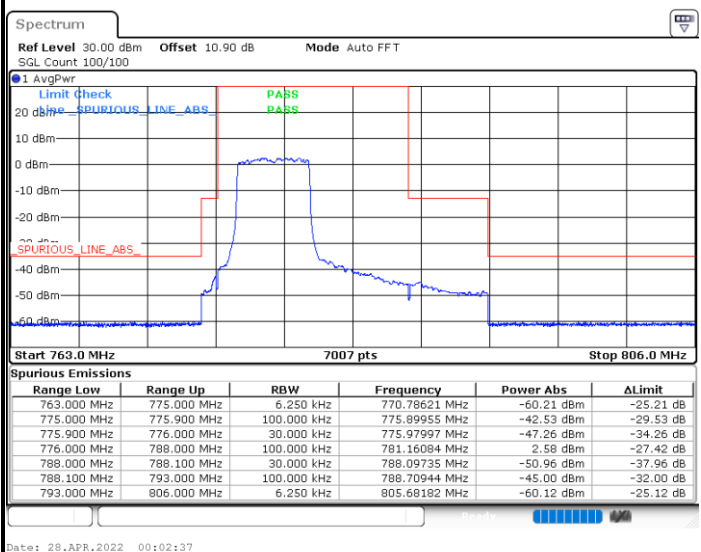


Date: 28.APR.2022 00:03:43

Date: 28.APR.2022 00:08:01

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 28.APR.2022 00:02:37

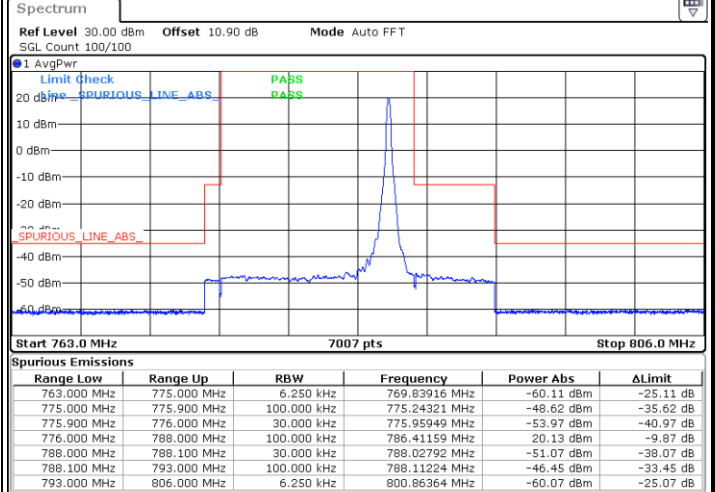
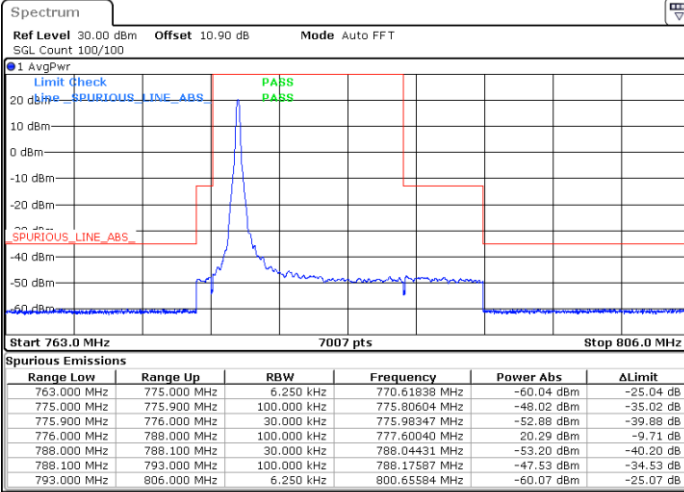
Date: 28.APR.2022 00:06:55



LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

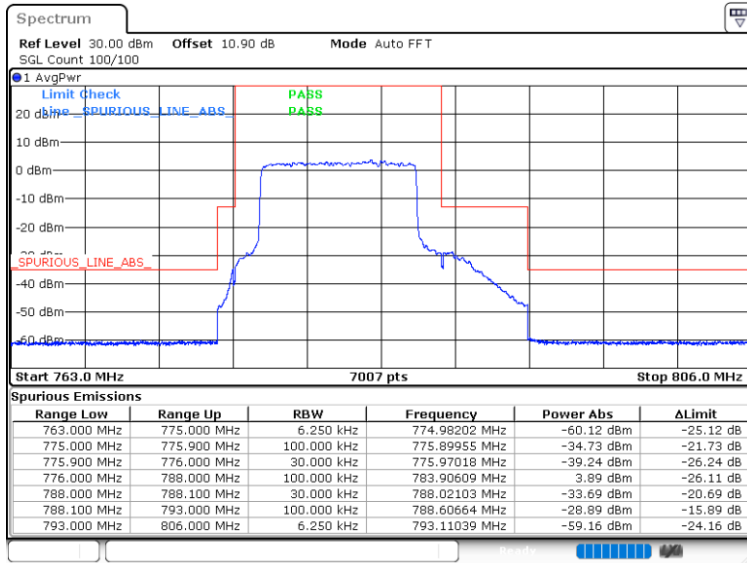
Highest Band Edge / 1 RB



Date: 20.APR.2022 18:01:27

Date: 20.APR.2022 18:02:30

Band Edge / Full RB



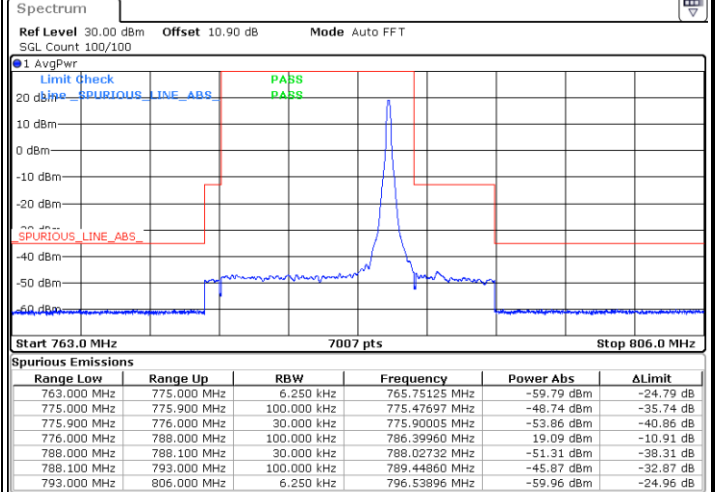
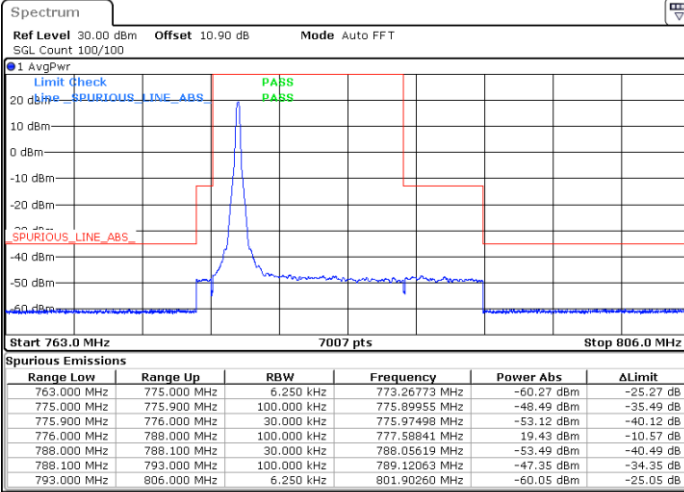
Date: 20.APR.2022 17:58:18



LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

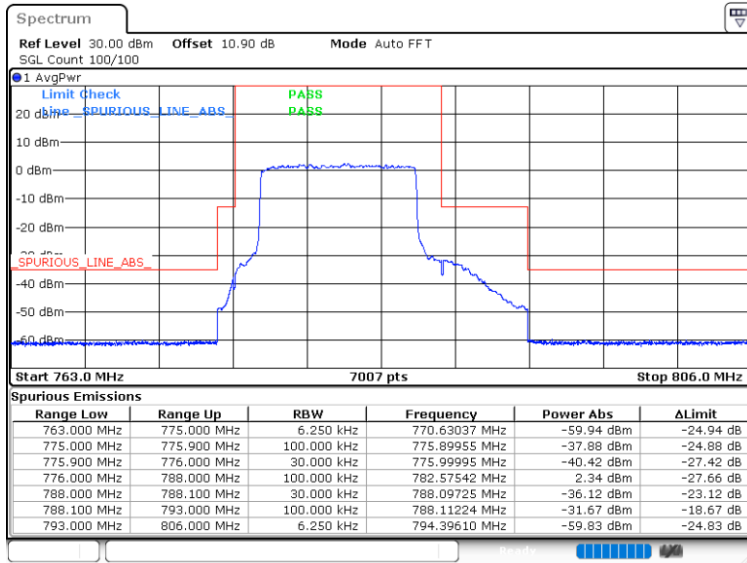
Highest Band Edge / 1 RB



Date: 20.APR.2022 18:00:24

Date: 20.APR.2022 18:03:33

Band Edge / Full RB



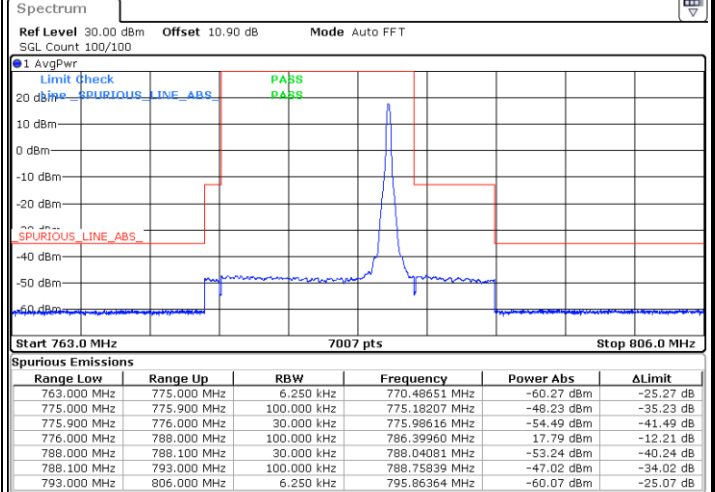
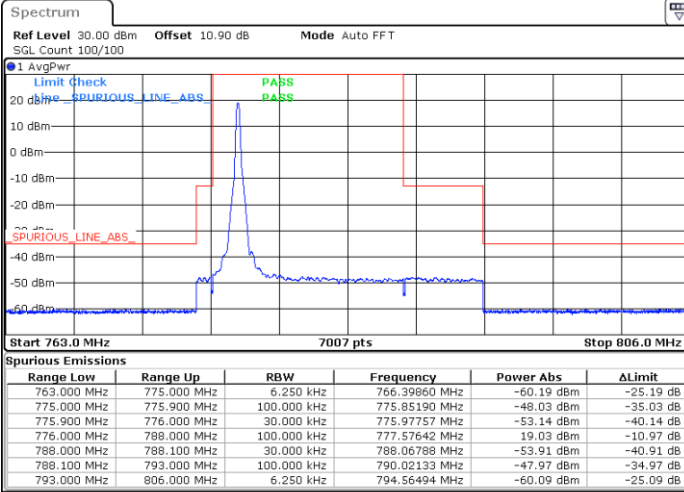
Date: 20.APR.2022 17:59:21



LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

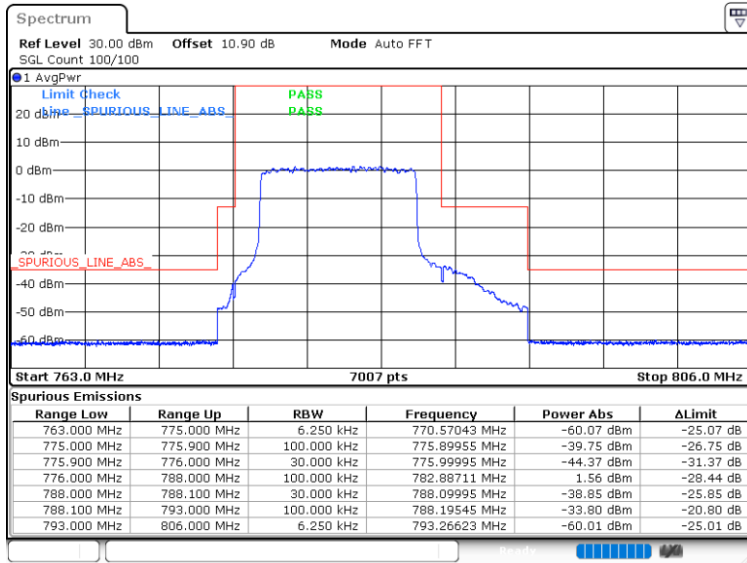
Highest Band Edge / 1 RB



Date: 20.APR.2022 18:07:38

Date: 20.APR.2022 18:08:42

Band Edge / Full RB



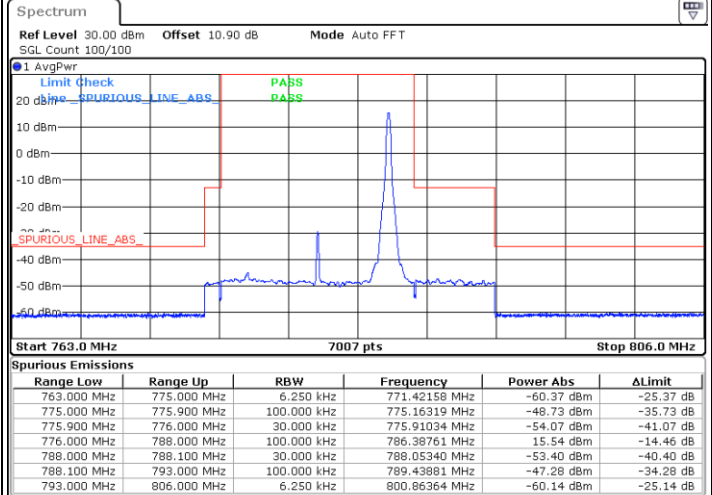
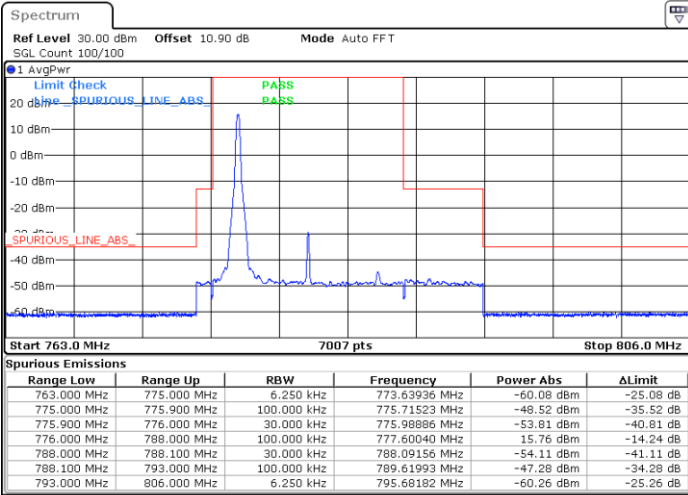
Date: 20.APR.2022 18:06:36



LTE Band 13 / 10MHz / 256QAM

Lowest Band Edge / 1 RB

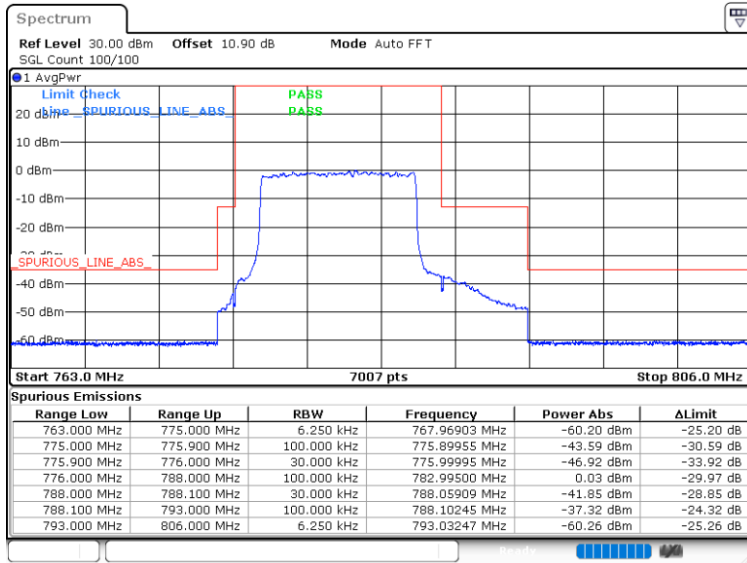
Highest Band Edge / 1 RB



Date: 28.APR.2022 00:19:12

Date: 28.APR.2022 00:20:15

Band Edge / Full RB



Date: 28.APR.2022 00:18:09

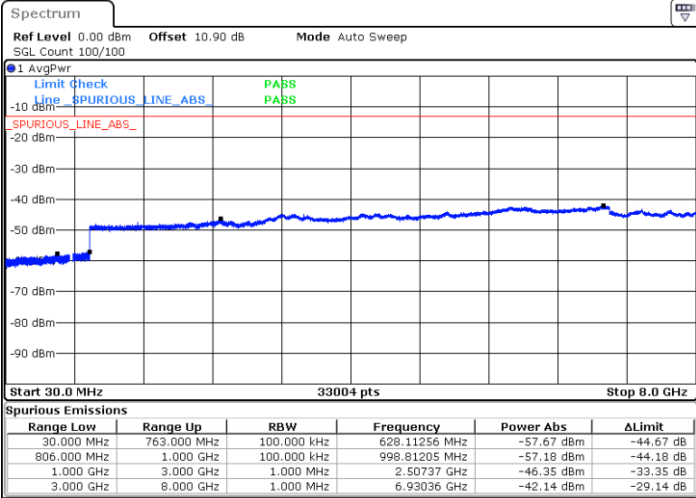


Conducted Spurious Emission

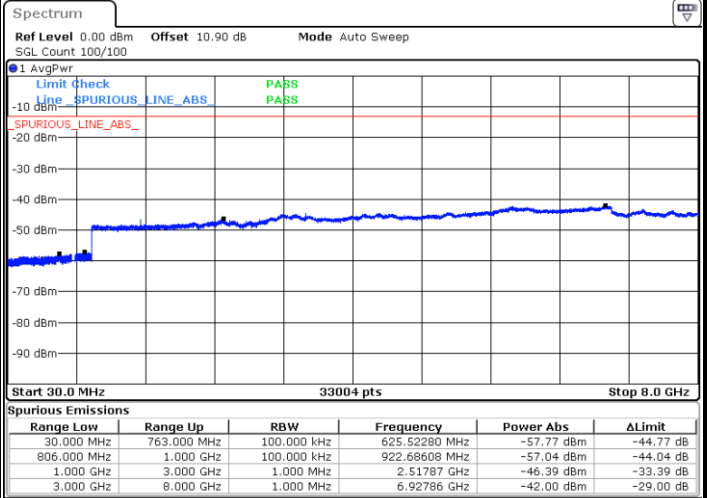
LTE Band 13 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

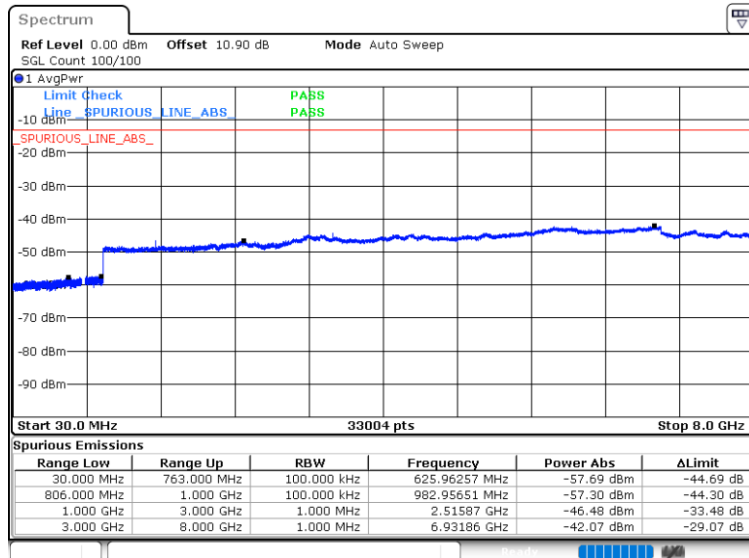


Date: 20.APR.2022 17:42:27



Date: 20.APR.2022 17:43:39

Highest Channel / QPSK

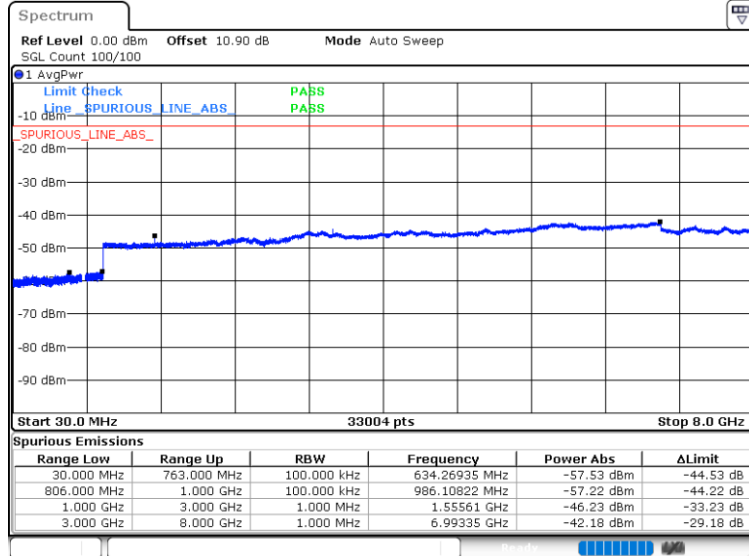


Date: 20.APR.2022 17:50:40



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 20.APR.2022 18:04:45



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0235	PASS
40	Normal Voltage	0.0234	
30	Normal Voltage	0.0169	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0054	
0	Normal Voltage	0.0243	
-10	Normal Voltage	0.0238	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0221	
20	Maximum Voltage	0.0188	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0243	

Note:

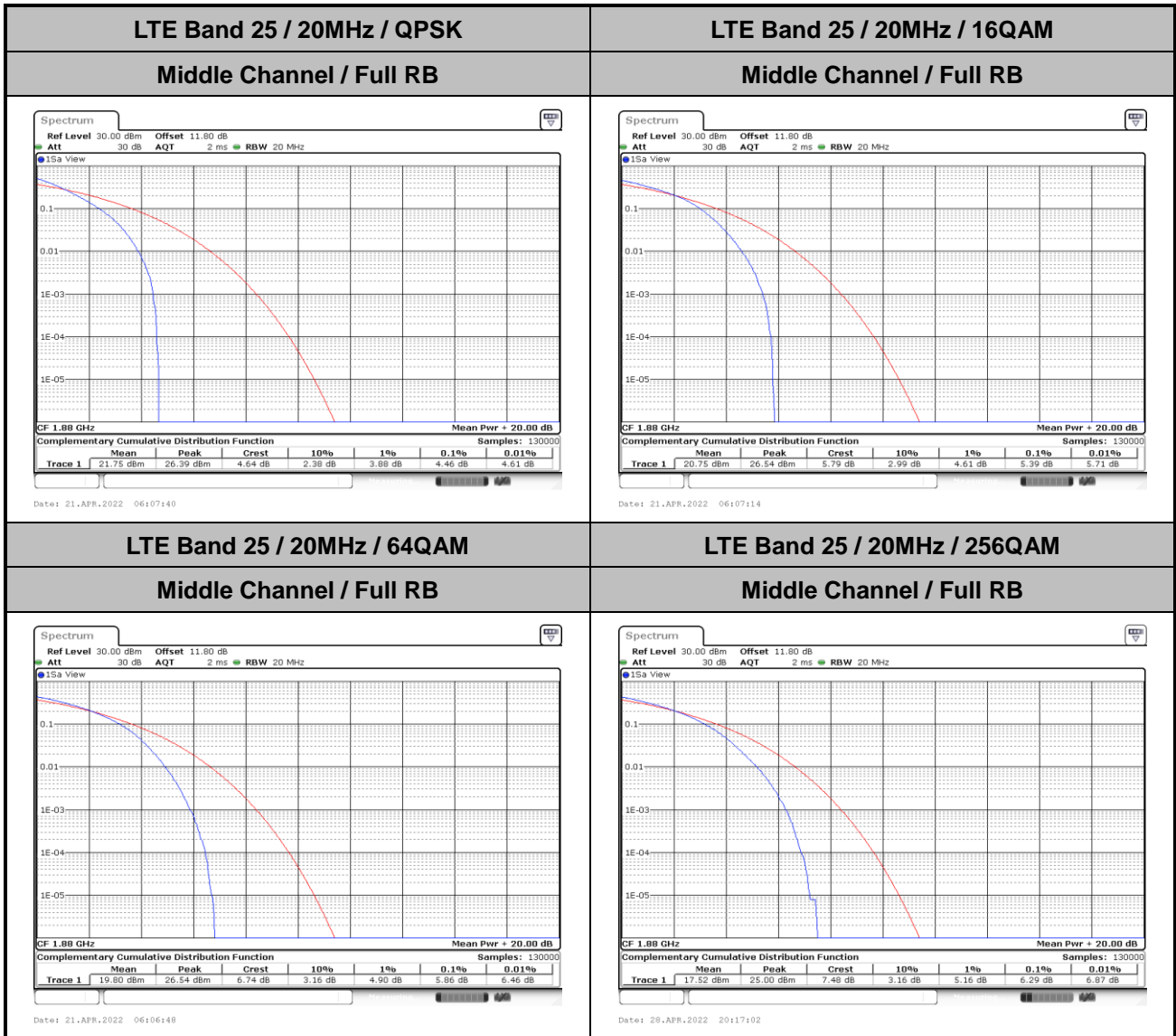
- 1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 25

Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.46	5.39	5.86	6.29	PASS





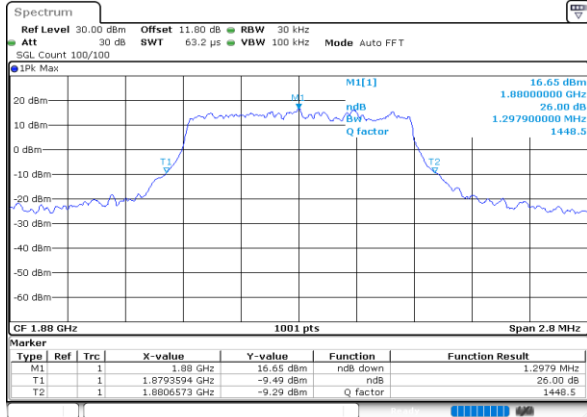
26dB Bandwidth

Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.30	1.30	3.07	3.06	5.02	4.99	10.01	9.81	14.18	14.24	19.22	18.90
Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	1.33	1.37	3.07	3.11	4.88	5.10	9.73	9.91	14.90	14.21	19.38	19.10



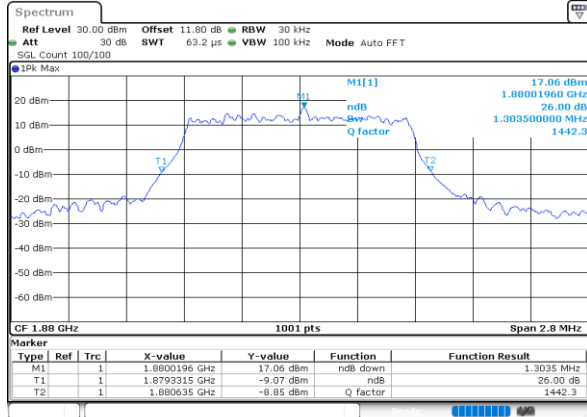
LTE Band 25

Middle Channel / 1.4MHz / QPSK



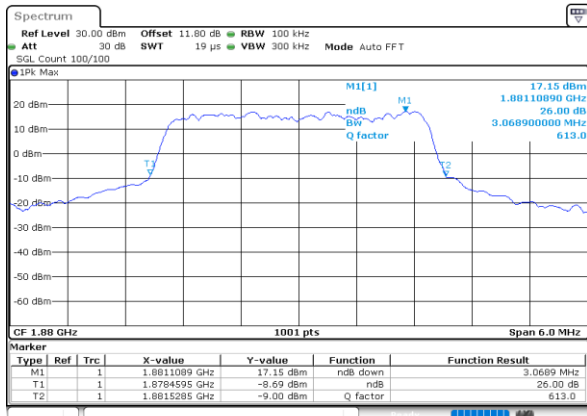
Date: 21.APR.2022 04:20:13

Middle Channel / 1.4MHz / 16QAM



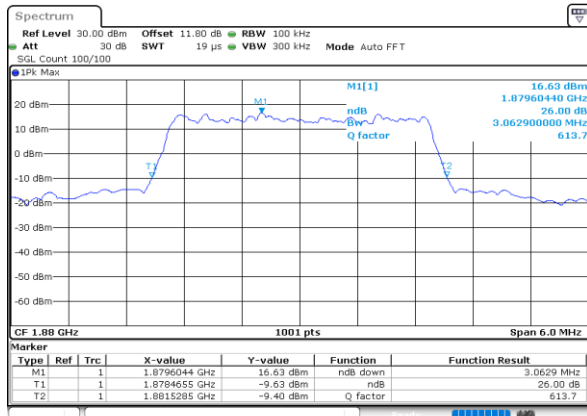
Date: 21.APR.2022 04:20:137

Middle Channel / 3MHz / QPSK



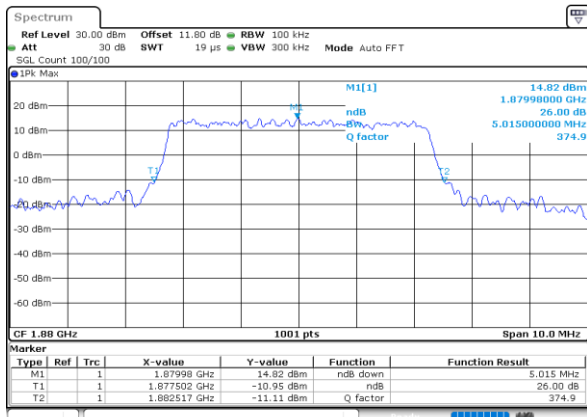
Date: 21.APR.2022 04:44:04

Middle Channel / 3MHz / 16QAM



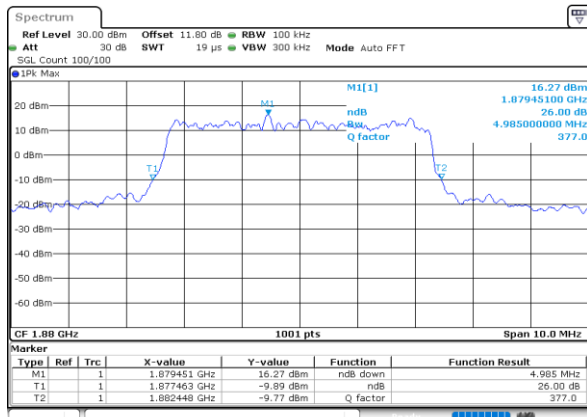
Date: 21.APR.2022 04:44:128

Middle Channel / 5MHz / QPSK



Date: 21.APR.2022 04:57:49

Middle Channel / 5MHz / 16QAM

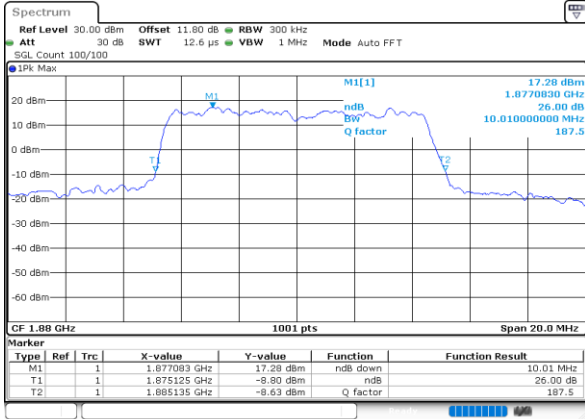


Date: 21.APR.2022 04:58:113



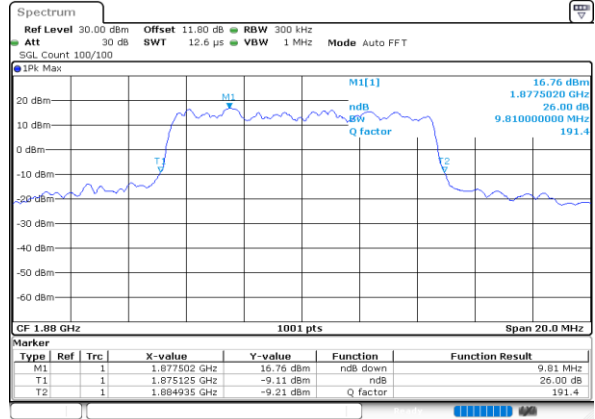
LTE Band 25

Middle Channel / 10MHz / QPSK



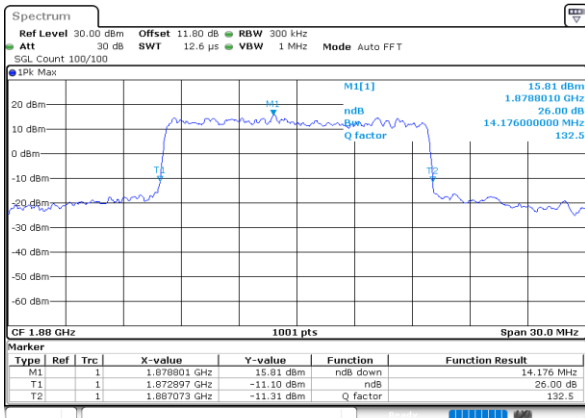
Date: 21.APR.2022 05:16:39

Middle Channel / 10MHz / 16QAM



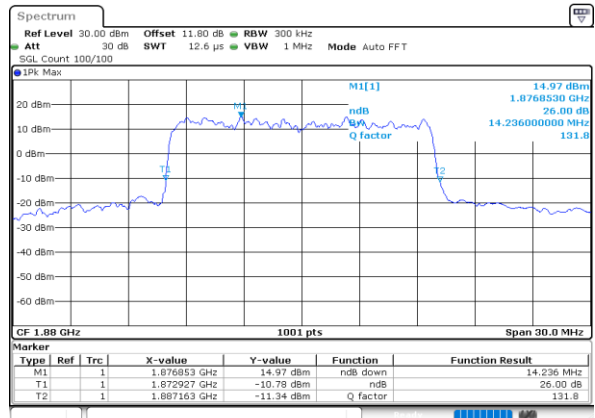
Date: 21.APR.2022 05:17:03

Middle Channel / 15MHz / QPSK



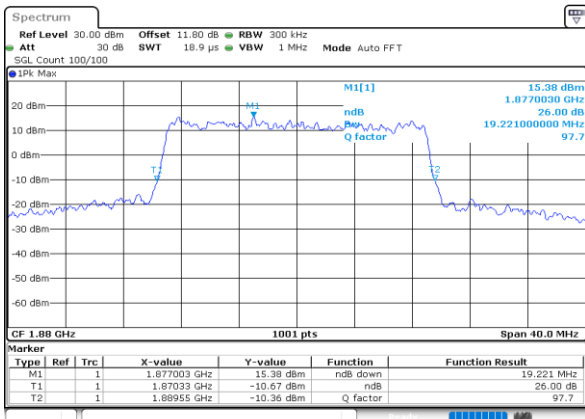
Date: 21.APR.2022 05:40:31

Middle Channel / 15MHz / 16QAM



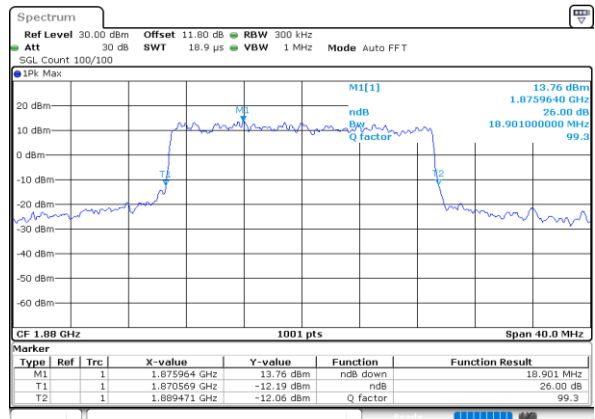
Date: 21.APR.2022 05:40:55

Middle Channel / 20MHz / QPSK



Date: 21.APR.2022 05:54:16

Middle Channel / 20MHz / 16QAM

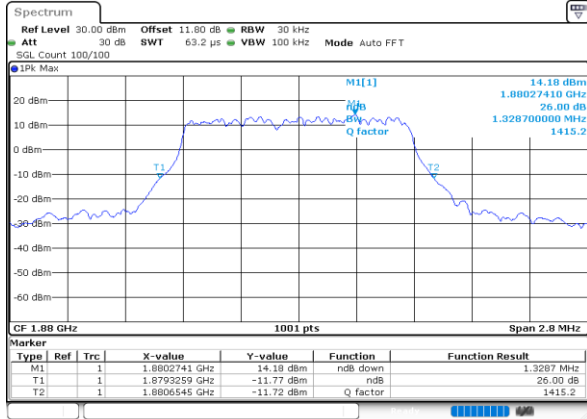


Date: 21.APR.2022 05:54:40



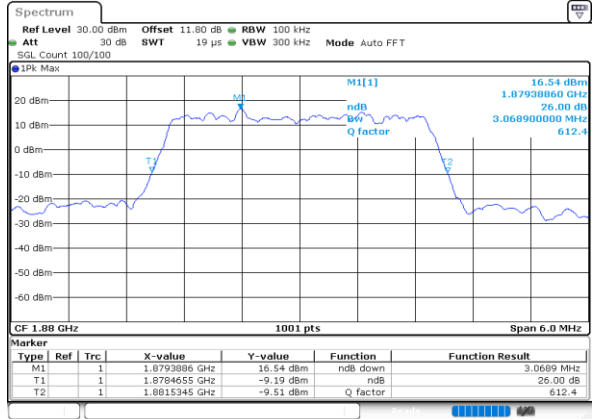
LTE Band 25

Middle Channel / 1.4MHz / 64QAM



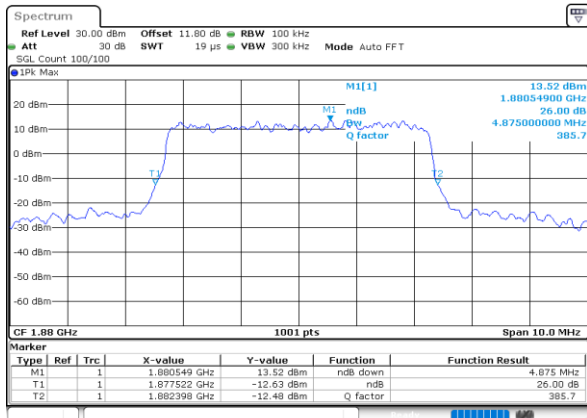
Date: 21.APR.2022 04:30:14

Middle Channel / 3MHz / 64QAM



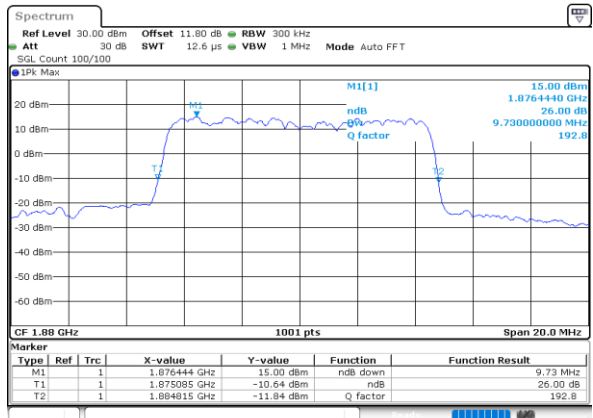
Date: 21.APR.2022 04:35:17

Middle Channel / 5MHz / 64QAM



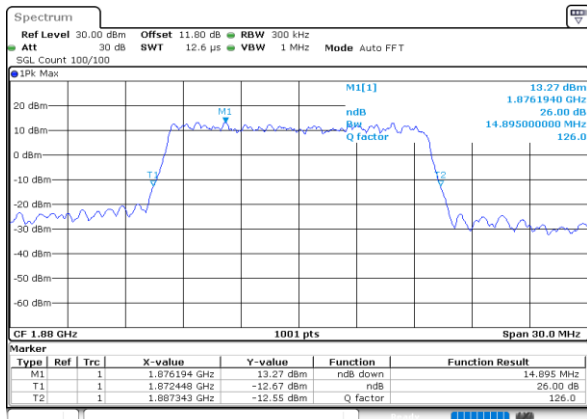
Date: 21.APR.2022 05:07:51

Middle Channel / 10MHz / 64QAM



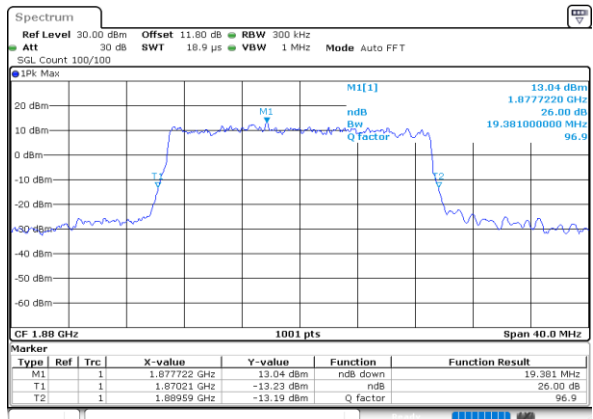
Date: 21.APR.2022 05:12:39

Middle Channel / 15MHz / 64QAM



Date: 21.APR.2022 05:31:42

Middle Channel / 20MHz / 64QAM

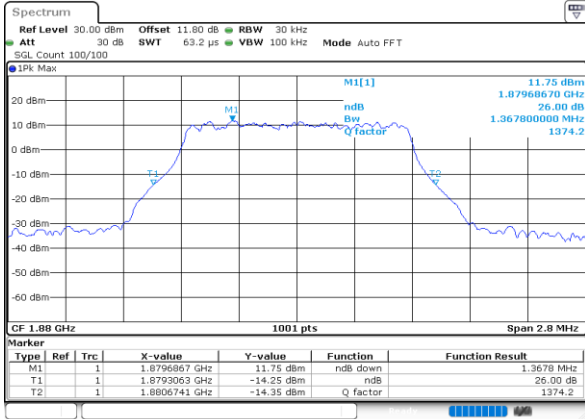


Date: 21.APR.2022 06:10:16



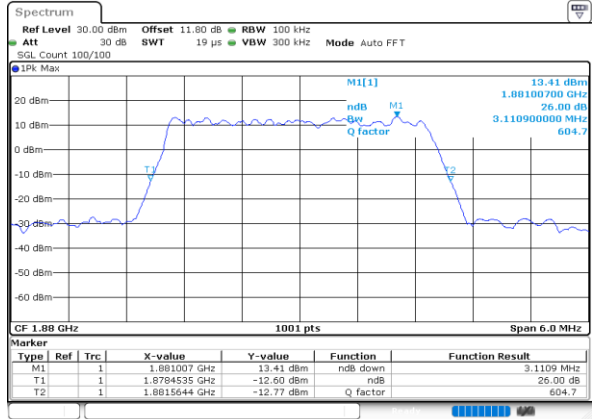
LTE Band 25

Middle Channel / 1.4MHz / 256QAM



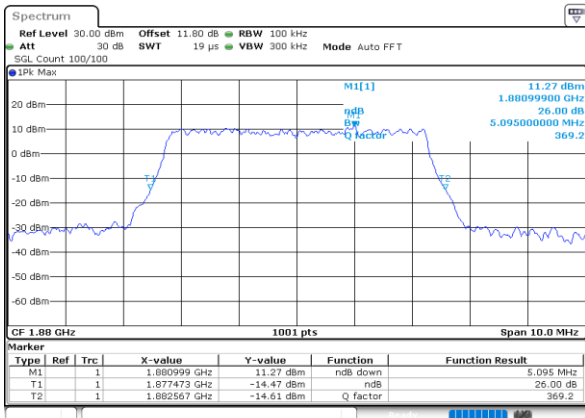
Date: 28.APR.2022 19:26:56

Middle Channel / 3MHz / 256QAM



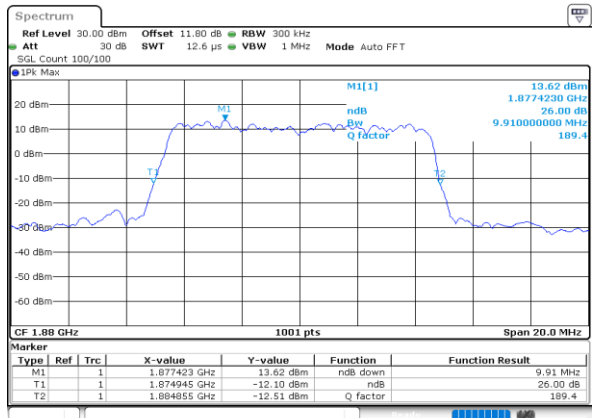
Date: 28.APR.2022 19:13:24

Middle Channel / 5MHz / 256QAM



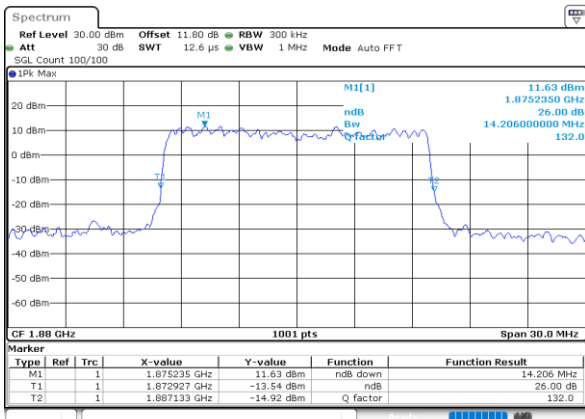
Date: 28.APR.2022 19:53:21

Middle Channel / 10MHz / 256QAM



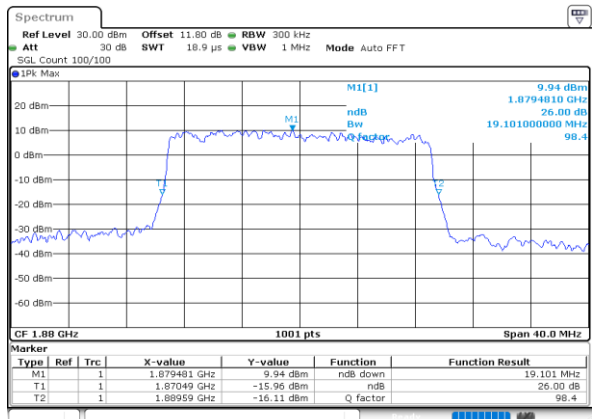
Date: 28.APR.2022 19:15:25

Middle Channel / 15MHz / 256QAM



Date: 28.APR.2022 20:08:34

Middle Channel / 20MHz / 256QAM



Date: 28.APR.2022 20:14:22



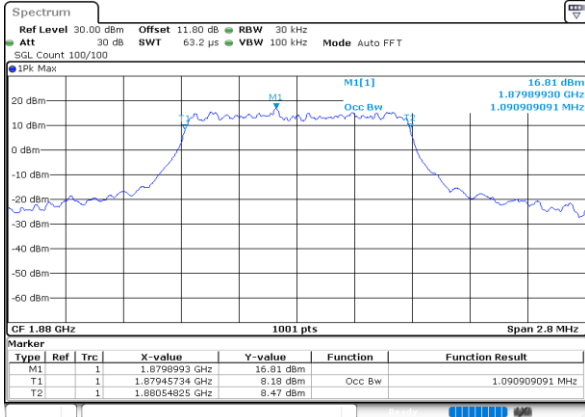
Occupied Bandwidth

Mode	LTE Band 25 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.10	2.73	2.73	4.49	4.51	9.03	9.03	13.43	13.43	17.90	17.90
Mode	LTE Band 25 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	1.10	1.11	2.72	2.72	4.50	4.49	9.07	9.11	13.55	13.49	17.90	17.86



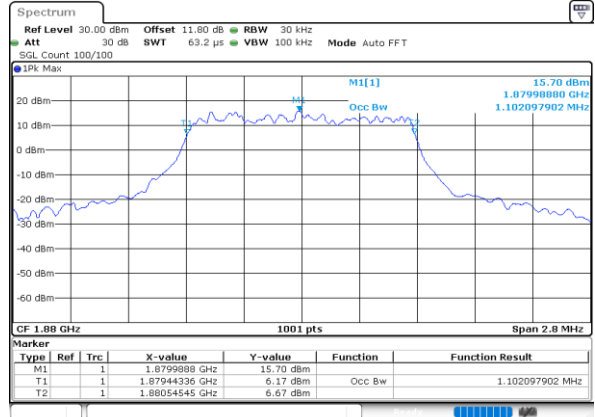
LTE Band 25

Middle Channel / 1.4MHz / QPSK



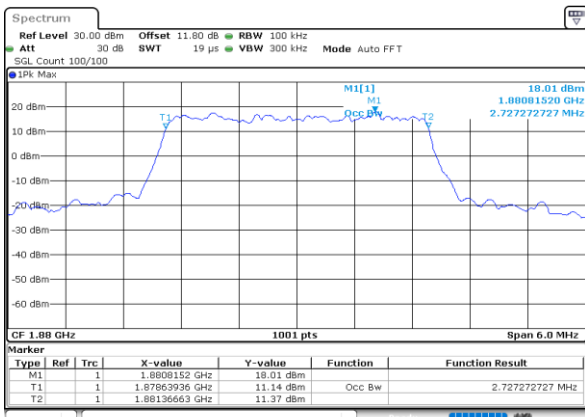
Date: 21.APR.2022 04:19:25

Middle Channel / 1.4MHz / 16QAM



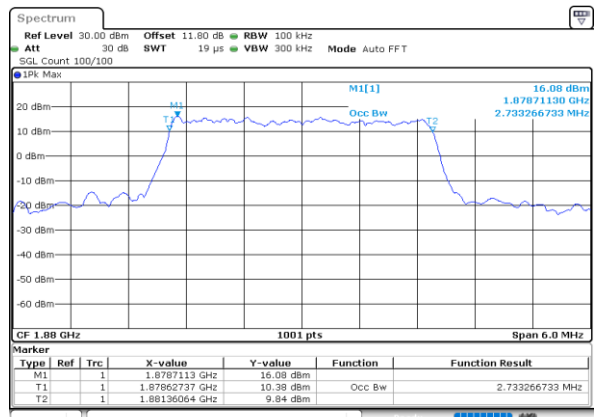
Date: 21.APR.2022 04:19:49

Middle Channel / 3MHz / QPSK



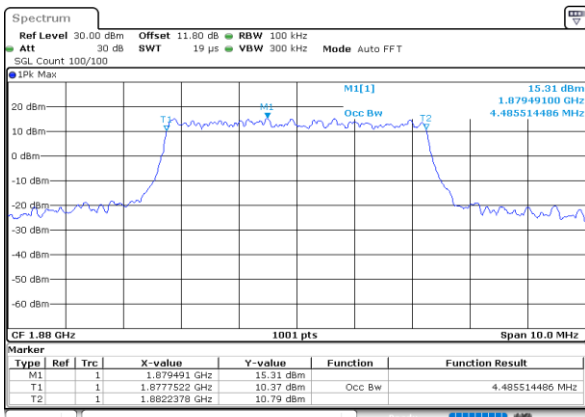
Date: 21.APR.2022 04:43:16

Middle Channel / 3MHz / 16QAM



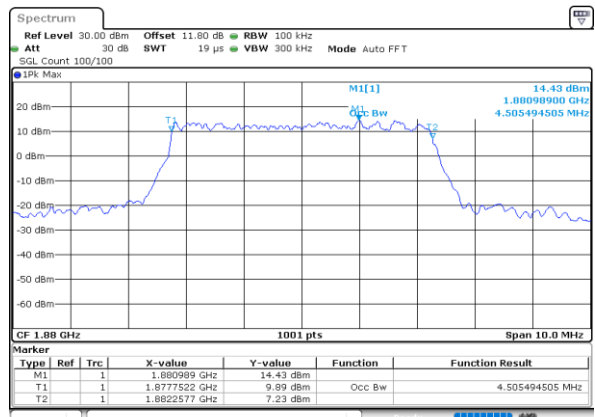
Date: 21.APR.2022 04:43:40

Middle Channel / 5MHz / QPSK



Date: 21.APR.2022 04:57:01

Middle Channel / 5MHz / 16QAM

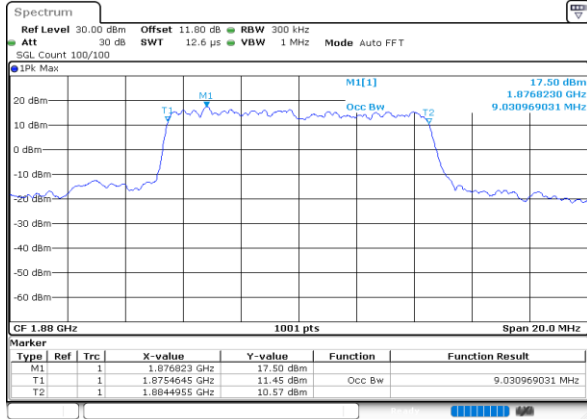


Date: 21.APR.2022 04:57:25



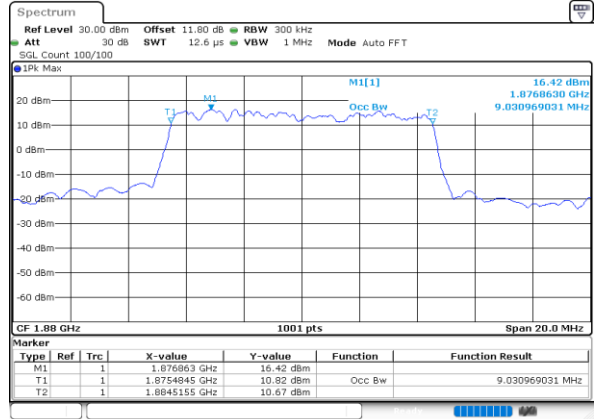
LTE Band 25

Middle Channel / 10MHz / QPSK



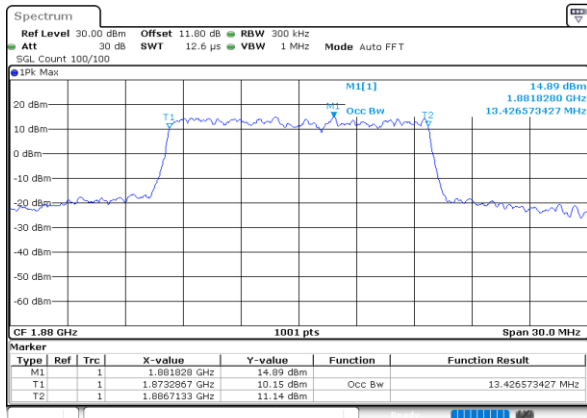
Date: 21.APR.2022 05:15:51

Middle Channel / 10MHz / 16QAM



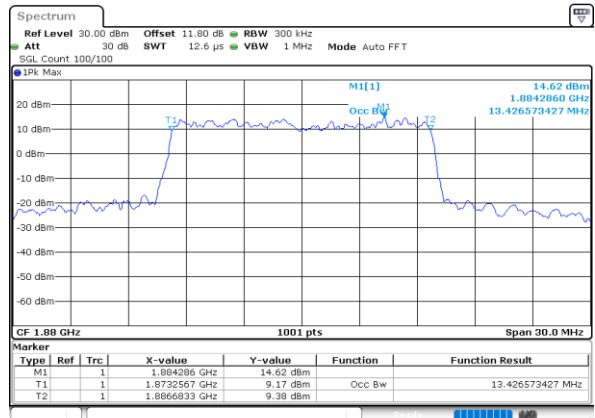
Date: 21.APR.2022 05:16:15

Middle Channel / 15MHz / QPSK



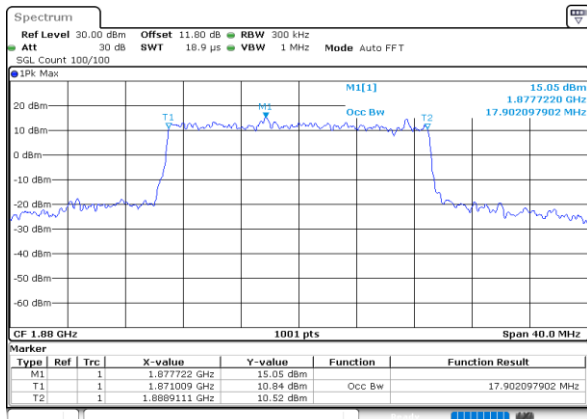
Date: 21.APR.2022 05:39:43

Middle Channel / 15MHz / 16QAM



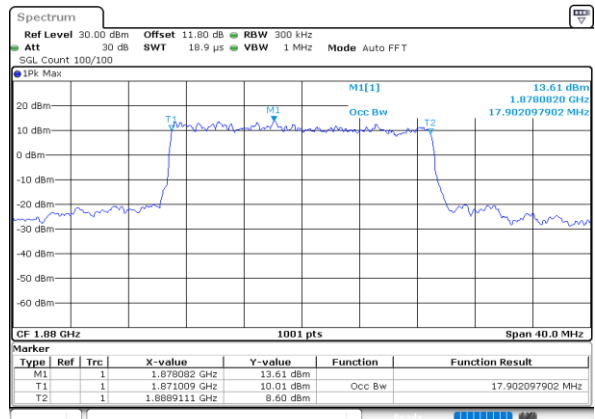
Date: 21.APR.2022 05:40:07

Middle Channel / 20MHz / QPSK



Date: 21.APR.2022 05:53:28

Middle Channel / 20MHz / 16QAM



Date: 21.APR.2022 05:53:52