



# FCC RADIO TEST REPORT

**FCC ID** : APYHRO00335  
**Equipment** : Smart phone  
**Brand Name** : SHARP  
**Model Name** : APYHRO00335  
**Applicant** : SHARP CORPORATION  
1 Takumi-cho, Sakai-ku, Sakai City,  
Osaka 590-8522, Japan  
**Manufacturer** : SHARP CORPORATION  
1 Takumi-cho, Sakai-ku, Sakai City,  
Osaka 590-8522, Japan  
**Standard** : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Feb. 20, 2025 and testing was performed from Mar. 04, 2025 to Apr. 10, 2025. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Approved by: Louis Wu

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



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### History of this test report

Report No.	Version	Description	Issue Date
FG4D0637B	01	Initial issue of report	Apr. 22, 2025



### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§22.913 (a)(5)	Effective Radiated Power (Band 5)	Pass	
	§27.50 (c)(10)	Effective Radiated Power (Band 12) (Band 17)		
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 7) (Band 38)		
3.3	§24.232 (d)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Pass	-
3.5	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Conducted Band Edge Measurement (Band 2) (Band 5) (Band 12) (Band 17)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38)		
3.6	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Conducted Spurious Emission (Band 2) (Band 5) (Band 12) (Band 17)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (Band 7) (Band 38)		
3.7	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	-
4.2	§2.1053 §22.917 (a) §24.238 (a) §27.53 (g)	Radiated Spurious Emission (Band 2) (Band 5) (Band 12) (Band 17)	Pass	-
	§2.1053 §27.53 (m)(4)	Radiated Spurious Emission (Band 7) (Band 38)		

**Conformity Assessment Condition:**

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

**Disclaimer:**

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

**Reviewed by: Keven Cheng**

**Report Producer: Lucy Wu**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Feature	
<b>General Specs</b> GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac, Wi-Fi 5GHz 802.11a/n/ac, GNSS and NFC.	
<b>Antenna Type</b> WWAN: <Ant. 0>: Monopole Antenna <Ant. 1>: PIFA Antenna	

Support band and evaluated information	
<b>Supported band</b>	B2, B5, B7, B12, B17, B38, B38C
<b>Evaluated and Tested band</b>	B2, B5, B7, B12, B17, B38, B38C

FDD/TDD band Power Class				
	SISO PC3			
<b>B2</b>	√			
<b>B5</b>	√			
<b>B7</b>	√			
<b>B12</b>	√			
<b>B17</b>	√			
<b>B38/38C</b>	√			

Max Antenna Gain information(dBi)							
Band	Ant0	Ant1					Main Ant. #
<b>B2</b>		<b>-1.12</b>					1
<b>B5</b>	<b>-4.15</b>						0
<b>B7</b>		<b>-0.71</b>					1
<b>B12</b>	<b>-5.38</b>						0
<b>B17</b>	<b>-5.38</b>						0
<b>B38</b>		<b>-0.71</b>					1

**Remark:** The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.



Item	Sample 1		Sample 2		Sample 3	
	Vendor	Model Number	Vendor	Model Number	Vendor	Model Number
DDR	LONGSYS	SA0FLXC2012	Samsung	SA04UBE3010	LONGSYS	SA0FLXC2012
UFS2.2	LONGSYS	SA0N128G010	Samsung	SA02U1DC010	LONGSYS	SA064GC2010
Display	DJN	SLX3M066X00	CPT	SLX065WRX00	DJN	SLX3M066X00
Rear camera	Shinotech	S0CNN72B000	Union Image	S0C50A350A0	Union Image	S0C50A350A0
Front camera	Shinotech	S0CM8G1B060	Union Image	S0C50A350A0	Union Image	S0C50A350A0
Battery	SCUD	BPSX400001S	EVE	BPSX400002S	EVE	BPSX400002S
PCB	Tripod	SB0SX51BG0C	Compeq	SB0SX51BJ0C	Compeq	SB0SX51BJ0C
Accelerometer /Gyroscope	TDK	SA042670020	ST	SA0OETR3020	ST	SA0OETR3020
E-compass	QST	SA0C6308130	MEMSIC	SA0C56030A0	MEMSIC	SA0C56030A0
ALS/PS sensor	Sensortek	SA033562020	EMINENT	SA079911020	EMINENT	SA079911020
FPC_Side_Key	Sunflex	MESX514021A	PBH	MESX514001A	PBH	MESX514001A
FPC_USB	Sunflex	MESX114012A	PBH	MESX314004A	PBH	MESX314004A
FPC_AJ	Sunflex	MESX114013A	PBH	MESX314003A	PBH	MESX314003A
FPC_Main	Sunflex	MESX514002A	PBH	MESX514022A	PBH	MESX514022A
FPC_SPK	Sunflex	MESX514004A	AKM	MESX514024A	AKM	MESX514024A
FPC_flashlight	Sunflex	MESX514023A	PBH	MESX514003A	PBH	MESX514003A
Rear housing	LF	MESX561041A	DY	MESX561040A	LF	MESX561041A

## 1.2 Modification of EUT

No modifications made to the EUT during the testing.



### 1.3 Testing Location

<b>Test Site</b>	Sporton International Inc. EMC & Wireless Communications Laboratory
<b>Test Site Location</b>	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
<b>Test Site No.</b>	<b>Sporton Site No.</b>
	TH03-HY
<b>Test Engineer</b>	Kevin Xiao
<b>Temperature (°C)</b>	22.3~22.9
<b>Relative Humidity (%)</b>	53.2~55.5

<b>Test Site</b>	Sporton International Inc. Wensan Laboratory
<b>Test Site Location</b>	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
<b>Test Site No.</b>	<b>Sporton Site No.</b>
	03CH23-HY (TAF Code: 3786)
<b>Test Engineer</b>	Leo Li, Karl Hou and Lucifer Jiang
<b>Temperature (°C)</b>	20.4~21.5
<b>Relative Humidity (%)</b>	47.9~63.1
<b>Remark</b>	The Radiated Spurious Emission Test Item subcontracted to Sporton International Inc. Wensan Laboratory.

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

FCC Designation No.: TW1190 and TW3786

### 1.4 Applicable Standards

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

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

**Remark:**

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



## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

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

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

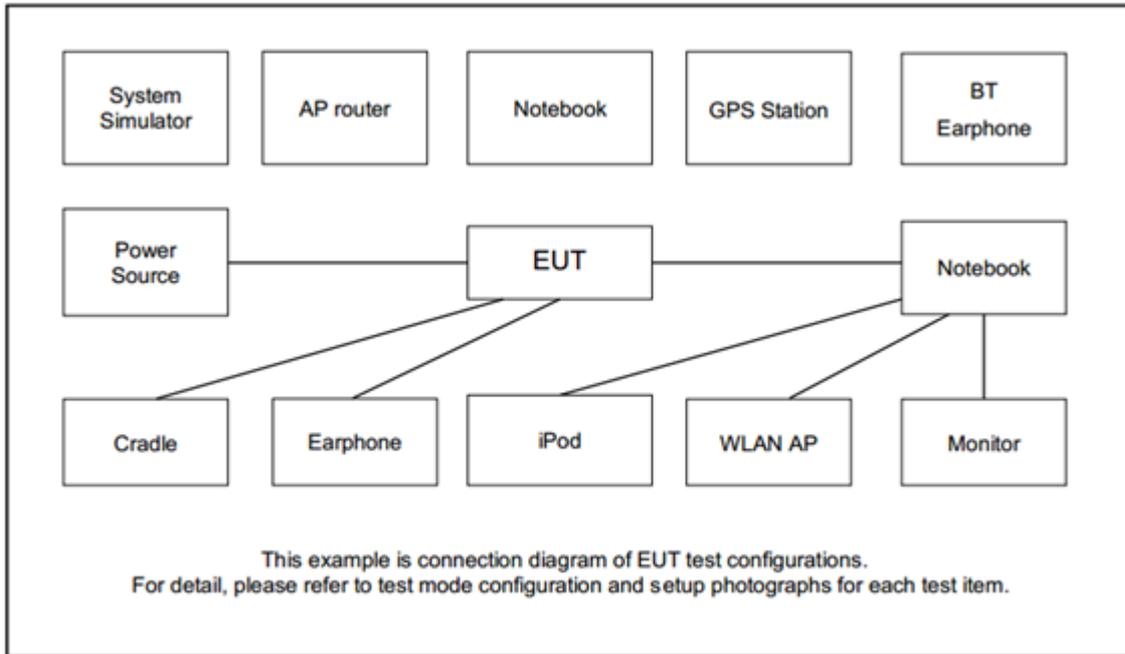
Modulation Type	Modulation
A	QPSK
B	16QAM
C	64QAM

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

**Remark:**

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst-case emissions are reported.
3. One representative bandwidth is selected to perform PAR and frequency stability.
4. All the radiated test cases were performed with Sample 3.

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	NOKIA	WH-108	N/A	Unshielded, 1.5 m	N/A

## 2.4 Measurement Results Explanation Example

### For all conducted test items:

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

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

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

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

Example :

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

$$= 4.2 + 10 = 14.2 \text{ (dB)}$$



### 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 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 17 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23780	23790	23800
	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5

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



LTE Band 38C Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	37850	37901	37952
		Frequency	2580.0	2585.1	2590.2
	SCC	Channel	38048	38099	38150
		Frequency	2599.8	2604.9	2610.0
15+ 15	PCC	Channel	37825	37925	38025
		Frequency	2577.5	2587.5	2597.5
	SCC	Channel	37975	38075	38175
		Frequency	2592.5	2602.5	2612.5

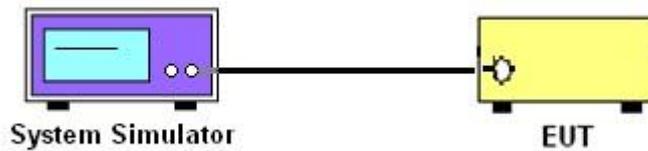
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

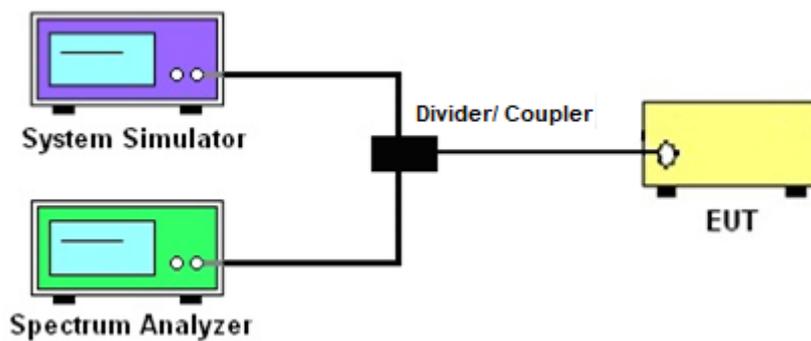
See list of measuring instruments of this test report.

##### 3.1.1 Test Setup

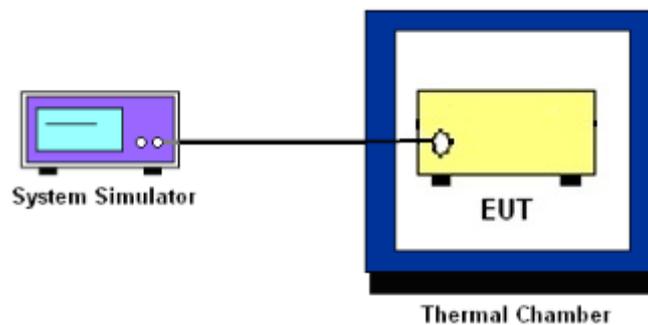
##### 3.1.2 Conducted Output Power



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



##### 3.1.4 Frequency Stability



##### 3.1.5 Test Result of Conducted Test

Please refer to Appendix A.



## 3.2 Conducted Output Power and ERP/EIRP

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

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

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

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 17

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2, Band 7, Band 38

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 (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.



## 3.6 Conducted Spurious Emission

### 3.6.1 Description of Conducted Spurious Emission Measurement

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

For LTE Band 7, 38

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 10<sup>th</sup> harmonic.

### 3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The conducted spurious emission for the whole frequency range was taken.
4. Make the measurement with the spectrum analyzer's RBW = 100 kHz if the authorized frequency band/block is at or below 1 GHz and 1 MHz if the authorized frequency band/block is above 1 GHz, VBW = 3 \* RBW.
5. Set spectrum analyzer with RMS detector.
6. Taking the record of maximum spurious emission.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)  
For LTE Band 7, 38  
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**

24.235 , 27.54,

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

22.355

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

#### **3.7.2 Test Procedures for Temperature Variation**

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to  $-30^{\circ}\text{C}$  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  $10^{\circ}\text{C}$  step up to  $50^{\circ}\text{C}$ . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

#### **3.7.3 Test Procedures for Voltage Variation**

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

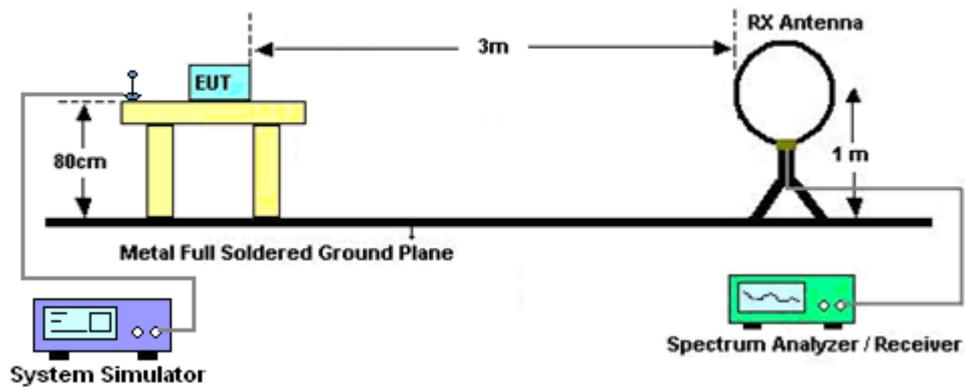
## 4 Radiated Test Items

### 4.1 Measuring Instruments

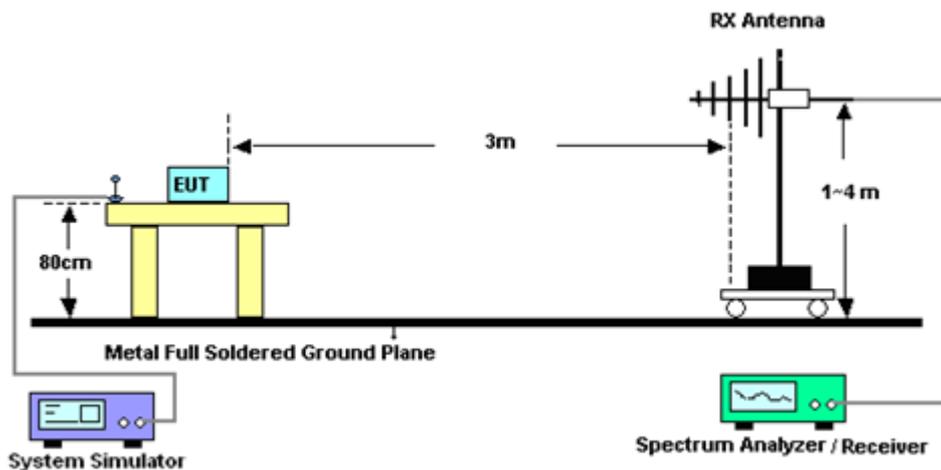
See list of measuring instruments of this test report.

#### 4.1.1 Test Setup

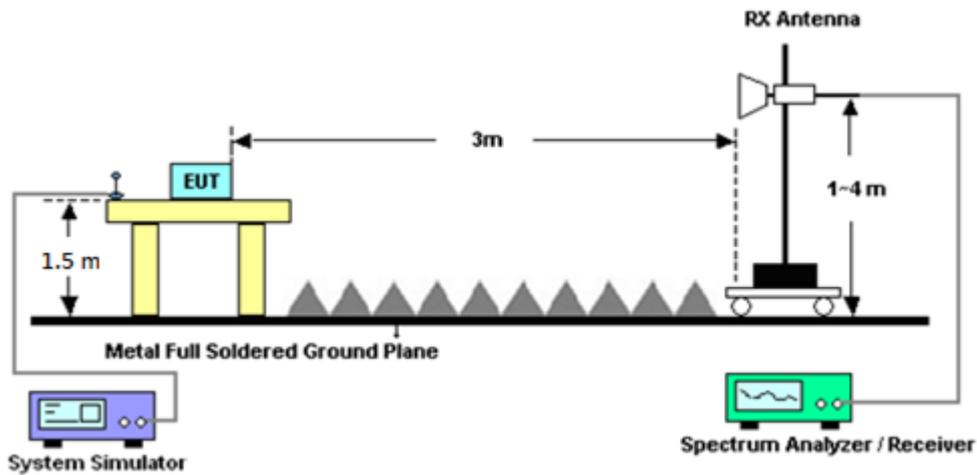
For radiated test below 30MHz



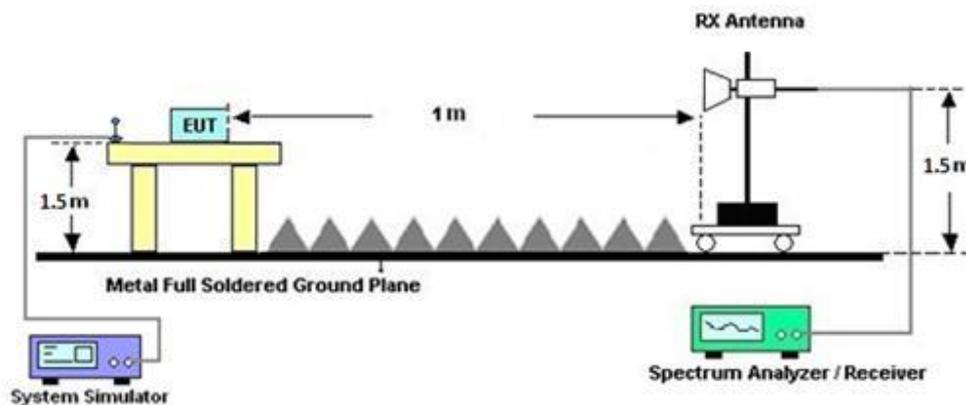
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



#### 4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

**Note:**

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

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



## 4.2 Radiated Spurious Emission Measurement

### 4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI C63.26-2015. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For LTE Band 7, 38

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

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

### 4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

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.

1. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
2. The table was rotated 360 degrees to determine the position of the highest spurious emission.
3. 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.
4. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
5. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
6.  $EIRP(dBm) = Level (dBuV/m) + 20\log(d) - 104.77$ , where d is the distance at which field strength limit is specified in the rules
7.  $Field\ Strength\ Level (dBm) = Spectrum\ Reading (dBm) + Antenna\ Factor + Cable\ Loss + Read\ Level - Preamp\ Factor.$
8.  $ERP (dBm) = EIRP (dBm) - 2.15$
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



## 5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Aug. 29, 2024	Apr. 08, 2025~ Apr. 10, 2025	Aug. 28, 2025	Radiation (03CH23-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	62028 & 003	30MHz~1GHz	Nov. 27, 2024	Apr. 08, 2025~ Apr. 10, 2025	Nov. 26, 2025	Radiation (03CH23-HY)
Amplifier	SONOMA	310N	421582	9kHz~1GHz	Jul. 14, 2024	Apr. 08, 2025~ Apr. 10, 2025	Jul. 13, 2025	Radiation (03CH23-HY)
Amplifier	EMEC	EM01G18GA	060878	N/A	Sep. 27, 2024	Apr. 08, 2025~ Apr. 10, 2025	Sep. 26, 2025	Radiation (03CH23-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C05A18EN	1GHz~18GHz	Jun. 20, 2024	Apr. 08, 2025~ Apr. 10, 2025	Jun. 19, 2025	Radiation (03CH23-HY)
SHF-EHF Horn Antenna	SCHWARZB ECK	BBHA 9170	1224	18GHz~40GHz	Jun. 24, 2024	Apr. 08, 2025~ Apr. 10, 2025	Jun. 23, 2025	Radiation (03CH23-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Sep. 02, 2024	Apr. 08, 2025~ Apr. 10, 2025	Sep. 01, 2025	Radiation (03CH23-HY)
Signal Analyzer	Keysight	N9010B	MY62170337	N/A	Aug. 21, 2024	Apr. 08, 2025~ Apr. 10, 2025	Aug. 20, 2025	Radiation (03CH23-HY)
Hygrometer	TECEPEL	DTM-303B	TP211542	N/A	Oct. 21, 2024	Apr. 08, 2025~ Apr. 10, 2025	Oct. 20, 2025	Radiation (03CH23-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 08, 2025~ Apr. 10, 2025	N/A	Radiation (03CH23-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Apr. 08, 2025~ Apr. 10, 2025	N/A	Radiation (03CH23-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Apr. 08, 2025~ Apr. 10, 2025	N/A	Radiation (03CH23-HY)
Software	Audix	E3 6.09824_2019 122	RK-002348	N/A	N/A	Apr. 08, 2025~ Apr. 10, 2025	N/A	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 05, 2025	Apr. 08, 2025~ Apr. 10, 2025	Mar. 04, 2026	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804395/2	N/A	Nov. 26, 2024	Apr. 08, 2025~ Apr. 10, 2025	Nov. 25, 2025	Radiation (03CH23-HY)
RF Cable	EMC	EMC101Y	231115/231119/ 231122	N/A	Nov. 26, 2024	Apr. 08, 2025~ Apr. 10, 2025	Nov. 25, 2025	Radiation (03CH23-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6262025353	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 01, 2024	Mar. 04, 2025~ Mar. 10, 2025	Sep. 30, 2025	Conducted (TH03-HY)
Thermal Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 06, 2024	Mar. 04, 2025~ Mar. 10, 2025	Sep. 05, 2025	Conducted (TH03-HY)
DC Power Supply	GW Instek	GPP-2323	GES906037	0V~64V ; 0A~6A	Nov. 27, 2024	Mar. 04, 2025~ Mar. 10, 2025	Nov. 26, 2025	Conducted (TH03-HY)
Coupler+10dB+ RFcable	Warison + WoKen + E-Instument	20dB 25W SMA Directional Coupler+ 10dB 18GHz_5W+S FL405_1.5M	#A+#1+#1+#7	1-18GHz	Jan. 03, 2025	Mar. 04, 2025~ Mar. 10, 2025	Jan. 02, 2026	Conducted (TH03-HY)
Power divider	Anritsu	K241C	2143398	9KHz~40GHz	Jun. 13, 2024	Mar. 04, 2025~ Mar. 10, 2025	Jun. 12, 2025	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101905	10Hz~40GHz	Jul. 11, 2024	Mar. 04, 2025~ Mar. 10, 2025	Jul. 10, 2025	Conducted (TH03-HY)
Software	Sporton	LTE Conducted Test Tools	N/A	Conducted Test Item	N/A	Mar. 04, 2025~ Mar. 10, 2025	N/A	Conducted (TH03-HY)
Hygrometer	TECEPEL	DTM-303B	TP210073	-10 ~ 50°C / 20 ~ 95%RH	Jun. 05, 2024	Mar. 04, 2025~ Mar. 10, 2025	Jun. 04, 2025	Conducted (TH03-HY)



## 6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	6.6 dB
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.4 dB
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### Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.8 dB
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### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.7 dB
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## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power & ERP/EIRP)

LTE Band 2 Maximum Average Power [dBm] (GT - LC = -1.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.25	22.53	22.64	21.88	0.1542
20	1	49		22.27	22.55	22.71		
20	1	99		22.50	22.70	23.00		
20	50	0		21.37	21.54	21.73		
20	50	24		21.39	21.58	21.77		
20	50	50		21.51	21.63	21.89		
20	100	0		21.36	21.57	21.76		
20	1	0	16-QAM	21.65	21.83	22.00	21.07	0.1279
20	1	49		21.64	21.89	22.08		
20	1	99		21.71	21.90	22.19		
20	50	0		20.37	20.54	20.72		
20	50	24		20.37	20.58	20.76		
20	50	50		20.39	20.61	20.81		
20	100	0		20.35	20.56	20.73		
20	1	0	64-QAM	20.51	20.69	20.87	19.94	0.0986
20	1	49		20.49	20.72	20.87		
20	1	99		20.57	20.73	21.06		
20	50	0		19.34	19.52	19.71		
20	50	24		19.35	19.57	19.75		
20	50	50		19.38	19.59	19.80		
20	100	0		19.34	19.54	19.73		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = -1.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.28	22.56	22.77	21.87	0.1538
15	1	37		22.37	22.64	22.79		
15	1	74		22.38	22.63	22.99		
15	36	0		21.35	21.61	21.78		
15	36	20		21.35	21.61	21.82		
15	36	39		21.38	21.62	21.87		
15	75	0		21.39	21.61	21.85		
15	1	0	16-QAM	21.65	21.89	22.09	21.11	0.1291
15	1	37		21.66	21.97	22.20		
15	1	74		21.73	21.97	22.23		
15	36	0		20.36	20.59	20.79		
15	36	20		20.37	20.58	20.81		
15	36	39		20.38	20.60	20.86		
15	75	0		20.39	20.64	20.85		
15	1	0	64-QAM	20.53	20.72	20.89	20.01	0.1002
15	1	37		20.53	20.78	20.93		
15	1	74		20.58	20.80	21.13		
15	36	0		19.36	19.60	19.79		
15	36	20		19.37	19.62	19.85		
15	36	39		19.39	19.63	19.89		
15	75	0		19.36	19.62	19.82		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = -1.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.23	22.54	22.79	21.82	0.1521
10	1	25		22.28	22.63	22.88		
10	1	49		22.30	22.60	22.94		
10	25	0		21.40	21.64	21.91		
10	25	12		21.42	21.66	21.92		
10	25	25		21.40	21.68	21.93		
10	50	0		21.43	21.66	21.92		
10	1	0	16-QAM	21.68	21.85	22.16	21.13	0.1297
10	1	25		21.68	21.96	22.18		
10	1	49		21.65	21.97	22.25		
10	25	0		20.37	20.62	20.88		
10	25	12		20.40	20.64	20.89		
10	25	25		20.38	20.66	20.90		
10	50	0		20.40	20.64	20.89		
10	1	0	64-QAM	20.52	20.78	21.04	19.99	0.0998
10	1	25		20.57	20.82	21.04		
10	1	49		20.52	20.83	21.11		
10	25	0		19.35	19.62	19.88		
10	25	12		19.38	19.64	19.90		
10	25	25		19.36	19.66	19.90		
10	50	0		19.38	19.64	19.88		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = -1.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.18	22.53	22.84	21.80	0.1514
5	1	12		22.22	22.61	22.90		
5	1	24		22.22	22.57	22.92		
5	12	0		21.35	21.64	21.95		
5	12	7		21.36	21.68	21.93		
5	12	13		21.35	21.67	21.95		
5	25	0		21.38	21.68	21.96		
5	1	0	16-QAM	21.62	21.88	22.20	21.14	0.1300
5	1	12		21.66	21.92	22.21		
5	1	24		21.68	21.94	22.26		
5	12	0		20.36	20.64	20.95		
5	12	7		20.37	20.67	20.93		
5	12	13		20.35	20.67	20.95		
5	25	0		20.35	20.65	20.91		
5	1	0	64-QAM	20.48	20.76	21.03	19.95	0.0989
5	1	12		20.50	20.82	21.05		
5	1	24		20.52	20.79	21.07		
5	12	0		19.37	19.66	19.96		
5	12	7		19.39	19.71	19.94		
5	12	13		19.39	19.69	19.96		
5	25	0		19.35	19.65	19.90		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = -1.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
3	1	0	QPSK	22.11	22.57	22.81	21.70	0.1479
3	1	8		22.10	22.56	22.77		
3	1	14		22.13	22.51	22.82		
3	8	0		21.32	21.60	21.90		
3	8	4		21.33	21.60	21.91		
3	8	7		21.34	21.63	21.90		
3	15	0		21.30	21.61	21.92		
3	1	0	16-QAM	21.61	21.84	22.15	21.08	0.1282
3	1	8		21.63	21.86	22.18		
3	1	14		21.61	21.86	22.20		
3	8	0		20.37	20.65	20.93		
3	8	4		20.38	20.67	20.95		
3	8	7		20.39	20.69	20.96		
3	15	0		20.31	20.60	20.91		
3	1	0	64-QAM	20.44	20.71	21.02	19.97	0.0993
3	1	8		20.48	20.76	21.08		
3	1	14		20.47	20.78	21.09		
3	8	0		19.36	19.65	19.93		
3	8	4		19.38	19.63	19.94		
3	8	7		19.37	19.67	19.95		
3	15	0		19.27	19.59	19.88		
Limit	EIRP < 2W			Result			Pass	



LTE Band 2 Maximum Average Power [dBm] (GT - LC = -1.12 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
1.4	1	0	QPSK	22.16	22.56	22.86	21.78	0.1507
1.4	1	3		22.17	22.53	22.88		
1.4	1	5		22.18	22.55	22.85		
1.4	3	0		22.17	22.53	22.89		
1.4	3	1		22.15	22.50	22.87		
1.4	3	3		22.17	22.53	22.90		
1.4	6	0		21.29	21.61	21.89		
1.4	1	0	16-QAM	21.61	21.89	22.20	21.09	0.1285
1.4	1	3		21.61	21.91	22.21		
1.4	1	5		21.64	21.91	22.21		
1.4	3	0		21.29	21.58	21.87		
1.4	3	1		21.29	21.59	21.88		
1.4	3	3		21.28	21.59	21.88		
1.4	6	0		20.36	20.68	20.97		
1.4	1	0	64-QAM	20.48	20.82	21.08	19.96	0.0991
1.4	1	3		20.48	20.79	21.07		
1.4	1	5		20.48	20.79	21.07		
1.4	3	0		20.41	20.71	21.02		
1.4	3	1		20.40	20.70	20.99		
1.4	3	3		20.40	20.69	21.00		
1.4	6	0		19.26	19.58	19.88		
Limit	EIRP < 2W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -4.15 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.63	23.00	22.82	16.70	0.0468
10	1	25		22.76	22.87	22.92		
10	1	49		22.83	22.87	22.97		
10	25	0		21.78	21.90	21.99		
10	25	12		21.80	21.93	22.07		
10	25	25		21.85	22.00	22.05		
10	50	0		21.80	21.94	22.03		
10	1	0	16-QAM	21.94	22.05	22.29	16.05	0.0403
10	1	25		22.02	22.32	22.35		
10	1	49		22.13	22.30	22.32		
10	25	0		20.76	20.87	20.99		
10	25	12		20.79	20.91	21.05		
10	25	25		20.82	20.98	21.01		
10	50	0		20.80	20.95	21.00		
10	1	0	64-QAM	20.85	20.96	21.12	14.88	0.0308
10	1	25		20.91	21.14	21.18		
10	1	49		21.00	21.15	21.17		
10	25	0		19.75	19.88	19.98		
10	25	12		19.75	19.92	20.03		
10	25	25		19.82	19.98	20.00		
10	50	0		19.78	19.94	20.00		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -4.15 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.60	22.99	22.76	16.69	0.0467
5	1	12		22.74	22.77	22.89		
5	1	24		22.73	22.84	22.95		
5	12	0		21.69	21.87	21.95		
5	12	7		21.78	21.88	22.07		
5	12	13		21.81	21.91	21.98		
5	25	0		21.73	21.94	21.96		
5	1	0	16-QAM	21.87	22.01	22.25	16.03	0.0401
5	1	12		21.93	22.32	22.33		
5	1	24		22.13	22.21	22.27		
5	12	0		20.76	20.82	20.91		
5	12	7		20.79	20.83	21.03		
5	12	13		20.76	20.92	20.98		
5	25	0		20.76	20.90	20.95		
5	1	0	64-QAM	20.82	20.92	21.09	14.84	0.0305
5	1	12		20.82	21.14	21.09		
5	1	24		20.99	21.06	21.07		
5	12	0		19.67	19.85	19.89		
5	12	7		19.66	19.82	19.96		
5	12	13		19.73	19.95	19.95		
5	25	0		19.76	19.93	19.98		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -4.15 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	22.62	22.91	22.81	16.61	0.0458
3	1	8		22.75	22.81	22.88		
3	1	14		22.78	22.80	22.91		
3	8	0		21.70	21.83	21.91		
3	8	4		21.72	21.83	22.05		
3	8	7		21.82	21.92	21.96		
3	15	0		21.72	21.94	22.01		
3	1	0	16-QAM	21.93	22.01	22.29	15.99	0.0397
3	1	8		21.95	22.25	22.25		
3	1	14		22.11	22.27	22.28		
3	8	0		20.70	20.81	20.98		
3	8	4		20.69	20.89	20.96		
3	8	7		20.82	20.98	20.96		
3	15	0		20.74	20.90	20.99		
3	1	0	64-QAM	20.85	20.89	21.04	14.82	0.0303
3	1	8		20.84	21.09	21.10		
3	1	14		20.94	21.12	21.10		
3	8	0		19.72	19.82	19.93		
3	8	4		19.69	19.85	19.99		
3	8	7		19.77	19.95	19.95		
3	15	0		19.76	19.84	19.93		
Limit	ERP < 7W			Result			Pass	



LTE Band 5 Maximum Average Power [dBm] (GT - LC = -4.15 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	22.63	22.91	22.77	16.61	0.0458
1.4	1	3		22.75	22.78	22.82		
1.4	1	5		22.76	22.85	22.89		
1.4	3	0		22.59	22.91	22.73		
1.4	3	1		22.70	22.76	22.75		
1.4	3	3		22.71	22.75	22.87		
1.4	6	0		21.77	21.87	21.96		
1.4	1	0	16-QAM	21.86	22.05	22.20	15.97	0.0395
1.4	1	3		21.99	22.25	22.27		
1.4	1	5		21.75	21.83	21.86		
1.4	3	0		21.80	22.03	22.17		
1.4	3	1		21.98	22.23	22.25		
1.4	3	3		21.68	21.85	21.93		
1.4	6	0		20.73	20.93	20.97		
1.4	1	0	64-QAM	20.78	20.88	21.12	14.87	0.0307
1.4	1	3		20.89	21.07	21.14		
1.4	1	5		21.00	21.10	21.17		
1.4	3	0		20.66	20.88	20.91		
1.4	3	1		20.77	20.81	21.10		
1.4	3	3		20.84	20.98	21.05		
1.4	6	0		19.79	19.95	19.99		
Limit	ERP < 7W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = -0.71 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.94	22.99	22.94	22.28	0.1690
20	1	49		22.89	22.89	22.82		
20	1	99		22.98	22.88	22.90		
20	50	0		21.83	21.90	21.85		
20	50	24		21.87	21.90	21.85		
20	50	50		21.99	22.00	21.93		
20	100	0		21.89	21.96	21.88		
20	1	0	16-QAM	21.91	22.06	22.02	21.56	0.1432
20	1	49		22.22	22.27	22.19		
20	1	99		22.20	22.21	22.15		
20	50	0		20.82	20.90	20.84		
20	50	24		20.83	20.90	20.85		
20	50	50		20.96	20.96	20.91		
20	100	0		20.87	20.93	20.85		
20	1	0	64-QAM	21.79	20.95	20.85	21.08	0.1282
20	1	49		21.05	21.11	20.98		
20	1	99		21.08	20.98	21.04		
20	50	0		19.81	19.88	19.82		
20	50	24		19.83	19.87	19.83		
20	50	50		19.96	19.97	19.90		
20	100	0		19.86	19.91	19.84		
Limit	EIRP < 2W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = -0.71 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.77	22.88	22.80	22.25	0.1679
15	1	37		22.88	22.93	22.88		
15	1	74		22.96	22.94	22.96		
15	36	0		21.78	21.85	21.81		
15	36	20		21.85	21.88	21.83		
15	36	39		21.95	21.93	21.87		
15	75	0		21.88	21.91	21.87		
15	1	0	16-QAM	21.96	22.14	22.07	21.59	0.1442
15	1	37		22.16	22.30	22.21		
15	1	74		22.26	22.29	22.17		
15	36	0		20.79	20.86	20.80		
15	36	20		20.83	20.86	20.82		
15	36	39		20.92	20.92	20.88		
15	75	0		20.89	20.94	20.87		
15	1	0	64-QAM	20.88	21.02	20.93	20.44	0.1107
15	1	37		21.03	21.15	21.04		
15	1	74		21.14	21.12	21.07		
15	36	0		19.79	19.88	19.80		
15	36	20		19.82	19.88	19.83		
15	36	39		19.94	19.94	19.87		
15	75	0		19.87	19.91	19.84		
Limit	EIRP < 2W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = -0.71 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.80	22.84	22.77	22.22	0.1667
10	1	25		22.76	22.84	22.79		
10	1	49		22.93	22.92	22.88		
10	25	0		21.79	21.85	21.78		
10	25	12		21.76	21.85	21.80		
10	25	25		21.84	21.89	21.83		
10	50	0		21.84	21.90	21.80		
10	1	0	16-QAM	21.96	22.20	22.11	21.61	0.1449
10	1	25		22.02	22.22	22.05		
10	1	49		22.27	22.32	22.14		
10	25	0		20.77	20.83	20.76		
10	25	12		20.75	20.80	20.76		
10	25	25		20.82	20.88	20.82		
10	50	0		20.82	20.87	20.80		
10	1	0	64-QAM	20.89	21.02	20.93	20.42	0.1102
10	1	25		20.88	21.05	20.92		
10	1	49		21.11	21.13	21.01		
10	25	0		19.76	19.83	19.77		
10	25	12		19.73	19.82	19.74		
10	25	25		19.81	19.88	19.79		
10	50	0		19.80	19.86	19.77		
Limit	EIRP < 2W			Result			Pass	



LTE Band 7 Maximum Average Power [dBm] (GT - LC = -0.71 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.80	22.84	22.80	22.19	0.1656
5	1	12		22.82	22.90	22.83		
5	1	24		22.82	22.87	22.83		
5	12	0		21.82	21.89	21.84		
5	12	7		21.81	21.89	21.84		
5	12	13		21.81	21.90	21.86		
5	25	0		21.84	21.92	21.86		
5	1	0	16-QAM	21.98	22.18	22.05	21.55	0.1429
5	1	12		22.04	22.26	22.06		
5	1	24		22.08	22.20	22.06		
5	12	0		20.83	20.90	20.83		
5	12	7		20.81	20.88	20.84		
5	12	13		20.81	20.90	20.82		
5	25	0		20.83	20.89	20.83		
5	1	0	64-QAM	20.91	21.06	20.92	20.42	0.1102
5	1	12		20.99	21.08	20.96		
5	1	24		20.96	21.13	20.95		
5	12	0		19.85	19.93	19.83		
5	12	7		19.84	19.87	19.84		
5	12	13		19.83	19.89	19.84		
5	25	0		19.78	19.88	19.80		
Limit	EIRP < 2W			Result			Pass	



LTE Band 12 Maximum Average Power [dBm] (GT - LC = -5.38 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.50	22.68	22.58	15.15	0.0327
10	1	25		22.52	22.67	22.61		
10	1	49		22.54	22.61	22.58		
10	25	0		21.56	21.54	21.59		
10	25	12		21.55	21.63	21.62		
10	25	25		21.56	21.57	21.64		
10	50	0		21.55	21.57	21.63		
10	1	0	16-QAM	21.80	21.86	21.79	14.43	0.0277
10	1	25		21.83	21.94	21.91		
10	1	49		21.78	21.96	21.91		
10	25	0		20.55	20.54	20.58		
10	25	12		20.53	20.62	20.60		
10	25	25		20.55	20.54	20.62		
10	50	0		20.55	20.56	20.61		
10	1	0	64-QAM	20.66	20.69	20.65	13.29	0.0213
10	1	25		20.70	20.82	20.81		
10	1	49		20.62	20.81	20.73		
10	25	0		19.54	19.55	19.58		
10	25	12		19.54	19.61	19.59		
10	25	25		19.56	19.55	19.63		
10	50	0		19.54	19.57	19.61		
Limit	ERP < 3W			Result			Pass	



LTE Band 12 Maximum Average Power [dBm] (GT - LC = -5.38 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.53	22.58	22.59	15.08	0.0322
5	1	12		22.61	22.61	22.58		
5	1	24		22.60	22.52	22.53		
5	12	0		21.66	21.56	21.52		
5	12	7		21.59	21.57	21.55		
5	12	13		21.66	21.53	21.55		
5	25	0		21.64	21.54	21.62		
5	1	0	16-QAM	21.90	21.84	21.74	14.39	0.0275
5	1	12		21.92	21.91	21.91		
5	1	24		21.88	21.90	21.83		
5	12	0		20.64	20.53	20.53		
5	12	7		20.56	20.56	20.57		
5	12	13		20.58	20.51	20.61		
5	25	0		20.58	20.55	20.51		
5	1	0	64-QAM	20.68	20.65	20.55	13.26	0.0212
5	1	12		20.76	20.79	20.71		
5	1	24		20.71	20.77	20.68		
5	12	0		19.61	19.55	19.50		
5	12	7		19.55	19.55	19.56		
5	12	13		19.66	19.57	19.54		
5	25	0		19.64	19.57	19.52		
Limit	ERP < 3W			Result			Pass	



LTE Band 12 Maximum Average Power [dBm] (GT - LC = -5.38 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
3	1	0	QPSK	22.60	22.66	22.59	15.13	0.0326
3	1	8		22.62	22.64	22.59		
3	1	14		22.57	22.56	22.54		
3	8	0		21.59	21.54	21.53		
3	8	4		21.55	21.56	21.55		
3	8	7		21.60	21.58	21.63		
3	15	0		21.65	21.55	21.55		
3	1	0	16-QAM	21.83	21.77	21.72	14.35	0.0272
3	1	8		21.86	21.88	21.83		
3	1	14		21.84	21.87	21.83		
3	8	0		20.57	20.50	20.53		
3	8	4		20.62	20.57	20.52		
3	8	7		20.58	20.53	20.54		
3	15	0		20.56	20.54	20.54		
3	1	0	64-QAM	20.71	20.59	20.55	13.27	0.0212
3	1	8		20.80	20.73	20.74		
3	1	14		20.69	20.77	20.69		
3	8	0		19.63	19.51	19.56		
3	8	4		19.56	19.58	19.52		
3	8	7		19.65	19.55	19.57		
3	15	0		19.55	19.50	19.55		
Limit	ERP < 3W			Result			Pass	



LTE Band 12 Maximum Average Power [dBm] (GT - LC = -5.38 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
1.4	1	0	QPSK	22.60	22.58	22.53	15.13	0.0326
1.4	1	3		22.59	22.66	22.55		
1.4	1	5		22.56	22.53	22.56		
1.4	3	0		22.59	22.53	22.59		
1.4	3	1		22.56	22.59	22.56		
1.4	3	3		22.56	22.58	22.55		
1.4	6	0		21.59	21.55	21.62		
1.4	1	0	16-QAM	21.80	21.83	21.78	14.39	0.0275
1.4	1	3		21.88	21.92	21.87		
1.4	1	5		21.57	21.59	21.61		
1.4	3	0		21.71	21.81	21.69		
1.4	3	1		21.81	21.84	21.79		
1.4	3	3		21.55	21.50	21.56		
1.4	6	0		20.56	20.52	20.59		
1.4	1	0	64-QAM	20.68	20.62	20.65	13.27	0.0212
1.4	1	3		20.80	20.74	20.78		
1.4	1	5		20.68	20.72	20.66		
1.4	3	0		20.56	20.54	20.53		
1.4	3	1		20.67	20.57	20.58		
1.4	3	3		20.80	20.70	20.69		
1.4	6	0		19.79	19.60	19.67		
Limit	ERP < 3W			Result			Pass	



LTE Band 17 Maximum Average Power [dBm] (GT - LC = -5.38 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
10	1	0	QPSK	22.54	22.63	22.56	15.10	0.0324
10	1	25		22.53	22.62	22.51		
10	1	49		22.58	22.60	22.53		
10	25	0		21.59	21.59	21.51		
10	25	12		21.61	21.59	21.53		
10	25	25		21.58	21.58	21.55		
10	50	0		21.57	21.60	21.52		
10	1	0	16-QAM	21.89	21.81	21.80	14.42	0.0277
10	1	25		21.83	21.91	21.83		
10	1	49		21.92	21.95	21.84		
10	25	0		20.57	20.58	20.56		
10	25	12		20.59	20.56	20.51		
10	25	25		20.56	20.55	20.52		
10	50	0		20.57	20.60	20.53		
10	1	0	64-QAM	20.71	20.67	20.65	13.27	0.0212
10	1	25		20.67	20.80	20.69		
10	1	49		20.80	20.78	20.66		
10	25	0		19.57	19.57	19.59		
10	25	12		19.59	19.57	19.49		
10	25	25		19.55	19.56	19.52		
10	50	0		19.55	19.60	19.51		
Limit	ERP < 3W			Result			Pass	



LTE Band 17 Maximum Average Power [dBm] (GT - LC = -5.38 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP (W)
5	1	0	QPSK	22.50	22.59	22.53	15.06	0.0321
5	1	12		22.59	22.56	22.57		
5	1	24		22.58	22.58	22.55		
5	12	0		21.54	21.59	21.52		
5	12	7		21.57	21.52	21.52		
5	12	13		21.58	21.59	21.58		
5	25	0		21.51	21.56	21.55		
5	1	0	16-QAM	21.85	21.76	21.70	14.36	0.0273
5	1	12		21.79	21.89	21.81		
5	1	24		21.87	21.88	21.76		
5	12	0		20.56	20.53	20.55		
5	12	7		20.53	20.56	20.51		
5	12	13		20.53	20.57	20.59		
5	25	0		20.57	20.52	20.58		
5	1	0	64-QAM	20.62	20.59	20.56	13.21	0.0209
5	1	12		20.64	20.74	20.67		
5	1	24		20.70	20.72	20.59		
5	12	0		19.56	19.53	19.56		
5	12	7		19.57	19.50	19.55		
5	12	13		19.51	19.56	19.50		
5	25	0		19.51	19.52	19.57		
Limit	ERP < 3W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = -0.71 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	22.90	22.84	22.89	22.19	0.1656
20	1	49		22.83	22.81	22.83		
20	1	99		22.80	22.82	22.87		
20	50	0		21.80	21.81	21.78		
20	50	24		21.81	21.86	21.84		
20	50	50		21.82	21.83	21.89		
20	100	0		21.82	21.83	21.84		
20	1	0	16-QAM	21.85	21.85	21.88	21.22	0.1324
20	1	49		21.88	21.93	21.84		
20	1	99		21.87	21.88	21.93		
20	50	0		20.83	20.80	20.80		
20	50	24		20.81	20.82	20.84		
20	50	50		20.81	20.86	20.88		
20	100	0		20.81	20.84	20.83		
20	1	0	64-QAM	20.70	20.68	20.72	20.09	0.1021
20	1	49		20.76	20.78	20.75		
20	1	99		20.73	20.75	20.80		
20	50	0		19.78	19.78	19.76		
20	50	24		19.81	19.80	19.82		
20	50	50		19.79	19.83	19.84		
20	100	0		19.78	19.82	19.80		
Limit	EIRP < 2W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = -0.71 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	22.67	22.61	22.62	22.04	0.1600
15	1	37		22.73	22.69	22.71		
15	1	74		22.66	22.64	22.75		
15	36	0		21.67	21.63	21.63		
15	36	20		21.66	21.76	21.64		
15	36	39		21.63	21.69	21.79		
15	75	0		21.65	21.67	21.70		
15	1	0	16-QAM	21.70	21.71	21.77	21.12	0.1294
15	1	37		21.69	21.83	21.68		
15	1	74		21.74	21.68	21.73		
15	36	0		20.63	20.61	20.65		
15	36	20		20.64	20.62	20.73		
15	36	39		20.65	20.67	20.76		
15	75	0		20.68	20.69	20.73		
15	1	0	64-QAM	20.52	20.53	20.56	19.95	0.0989
15	1	37		20.65	20.61	20.56		
15	1	74		20.58	20.61	20.66		
15	36	0		19.65	19.65	19.66		
15	36	20		19.70	19.66	19.66		
15	36	39		19.61	19.72	19.70		
15	75	0		19.67	19.72	19.67		
Limit	EIRP < 2W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = -0.71 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	22.64	22.56	22.60	22.06	0.1607
10	1	25		22.71	22.67	22.71		
10	1	49		22.64	22.70	22.77		
10	25	0		21.62	21.63	21.63		
10	25	12		21.65	21.72	21.70		
10	25	25		21.71	21.65	21.72		
10	50	0		21.72	21.67	21.74		
10	1	0	16-QAM	21.71	21.66	21.70	21.09	0.1285
10	1	25		21.70	21.80	21.73		
10	1	49		21.75	21.76	21.80		
10	25	0		20.66	20.68	20.70		
10	25	12		20.63	20.62	20.74		
10	25	25		20.63	20.67	20.78		
10	50	0		20.70	20.70	20.65		
10	1	0	64-QAM	20.55	20.55	20.62	19.95	0.0989
10	1	25		20.66	20.58	20.61		
10	1	49		20.61	20.64	20.60		
10	25	0		19.67	19.58	19.57		
10	25	12		19.65	19.65	19.67		
10	25	25		19.60	19.64	19.70		
10	50	0		19.67	19.65	19.61		
Limit	EIRP < 2W			Result			Pass	



LTE Band 38 Maximum Average Power [dBm] (GT - LC = -0.71 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	22.61	22.57	22.63	22.01	0.1589
5	1	12		22.65	22.63	22.68		
5	1	24		22.70	22.65	22.72		
5	12	0		21.63	21.64	21.67		
5	12	7		21.65	21.69	21.69		
5	12	13		21.68	21.64	21.78		
5	25	0		21.64	21.65	21.72		
5	1	0	16-QAM	21.67	21.68	21.71	21.08	0.1282
5	1	12		21.74	21.79	21.70		
5	1	24		21.71	21.77	21.74		
5	12	0		20.72	20.68	20.67		
5	12	7		20.68	20.69	20.69		
5	12	13		20.70	20.73	20.69		
5	25	0		20.63	20.68	20.67		
5	1	0	64-QAM	20.52	20.57	20.62	19.95	0.0989
5	1	12		20.60	20.64	20.61		
5	1	24		20.57	20.58	20.66		
5	12	0		19.58	19.65	19.66		
5	12	7		19.66	19.64	19.65		
5	12	13		19.66	19.67	19.72		
5	25	0		19.67	19.64	19.60		
Limit	EIRP < 2W			Result			Pass	



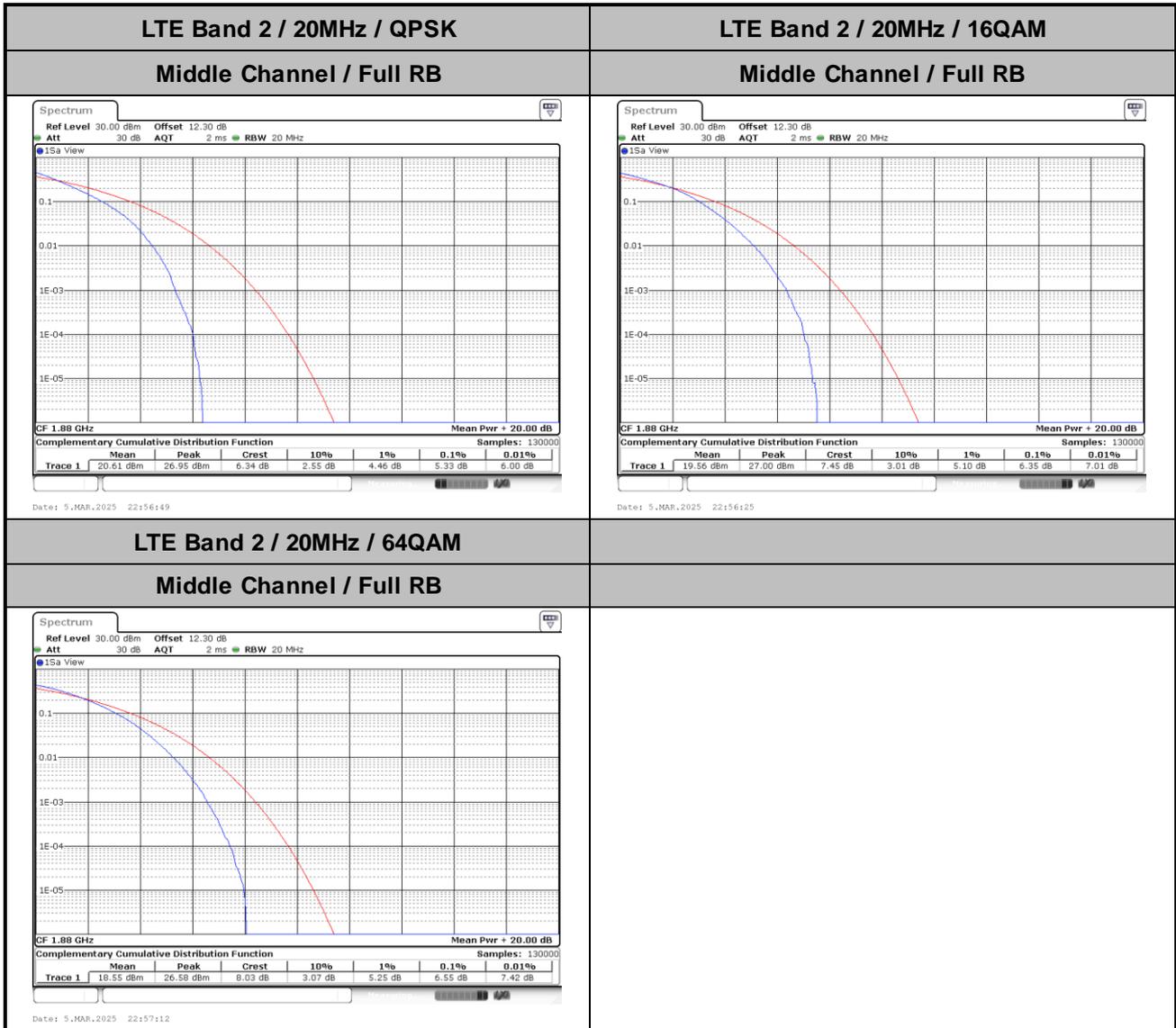
LTE Band 38C_CA Maximum Average Power [dBm] (GT - LC = -0.71 dB)										
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
	RB Size	RB Offset	RB Size	RB Offset						
20+20	100	0	100	0	QPSK	20.72	20.72	20.72	21.91	0.1552
20+20	1	0	1	99		14.41	14.36	14.28		
20+20	1	99	1	0		22.62	22.59	22.59		
20+20	100	0	100	0	16-QAM	19.81	19.81	19.79	21.60	0.1445
20+20	1	0	1	99		14.97	14.92	14.89		
20+20	1	99	1	0		22.31	22.29	22.29		
20+20	100	0	100	0	64-QAM	19.79	19.79	19.77	19.27	0.0845
20+20	1	0	1	99		14.68	14.63	14.59		
20+20	1	99	1	0		19.93	19.98	19.97		
15+15	75	0	75	0	QPSK	20.70	20.67	20.66	21.89	0.1545
15+15	1	0	1	74		14.30	14.27	14.19		
15+15	1	74	1	0		22.53	22.59	22.60		
15+15	75	0	75	0	16-QAM	19.74	19.70	19.70	21.56	0.1432
15+15	1	0	1	74		14.85	14.87	14.81		
15+15	1	74	1	0		22.19	22.27	22.26		
15+15	75	0	75	0	64-QAM	19.75	19.68	19.72	19.25	0.0841
15+15	1	0	1	74		14.58	14.59	14.53		
15+15	1	74	1	0		19.88	19.96	19.94		
Limit	EIRP < 2W					Result			Pass	



## LTE Band 2

### Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.33	6.35	6.55	-	PASS





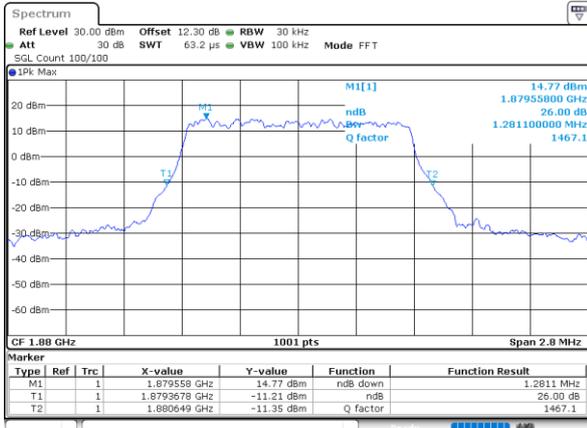
**26dB Bandwidth**

Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.28	1.26	3.00	2.97	4.81	4.96	9.66	9.68	14.32	14.50	18.78	19.06
Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.25	-	2.96	-	4.83	-	9.89	-	14.56	-	18.98	-



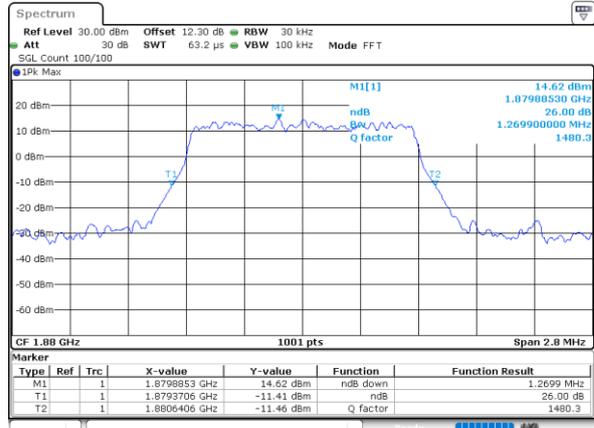
LTE Band 2

Middle Channel / 1.4MHz / QPSK



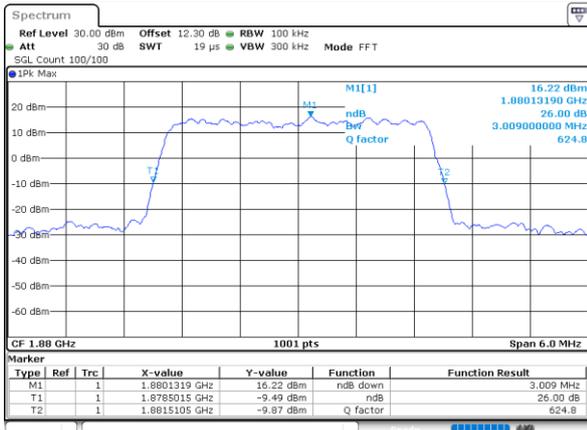
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Middle Channel / 1.4MHz / 16QAM



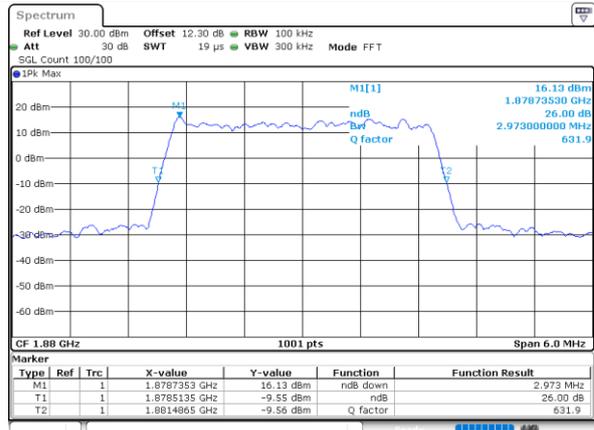
Date: 5\_MAR.2025 23:04:46

Middle Channel / 3MHz / QPSK



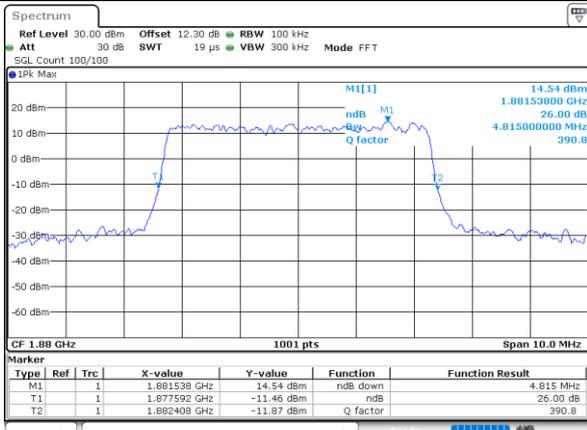
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Middle Channel / 3MHz / 16QAM



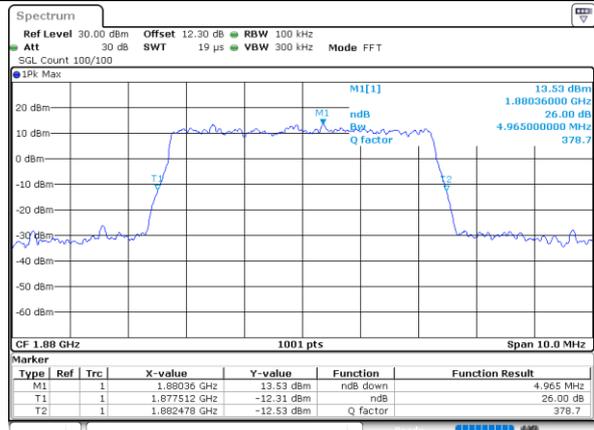
Date: 5\_MAR.2025 23:05:54

Middle Channel / 5MHz / QPSK



Date: 5\_MAR.2025 23:06:39

Middle Channel / 5MHz / 16QAM

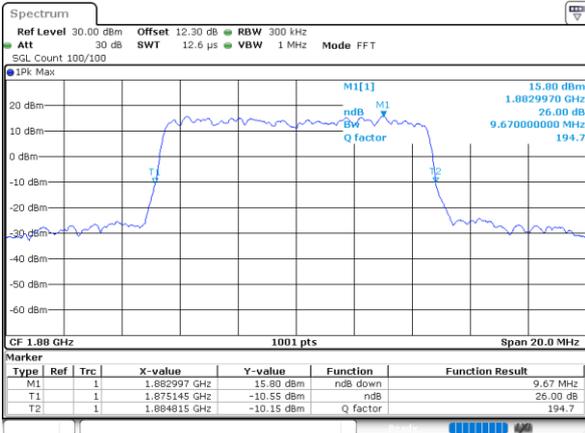


Date: 5\_MAR.2025 23:07:02



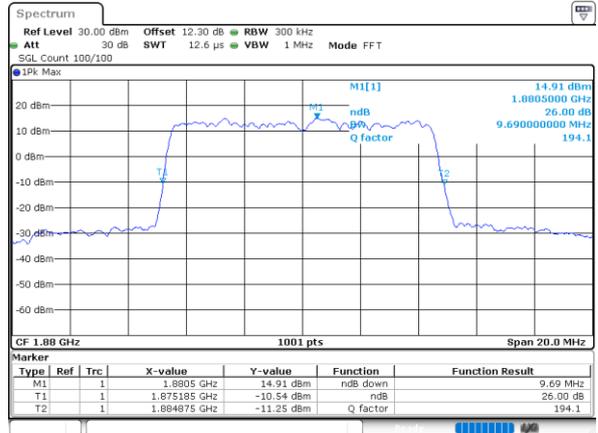
LTE Band 2

Middle Channel / 10MHz / QPSK



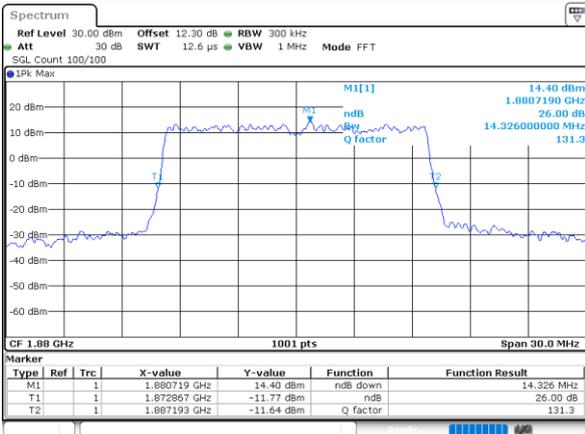
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Middle Channel / 10MHz / 16QAM



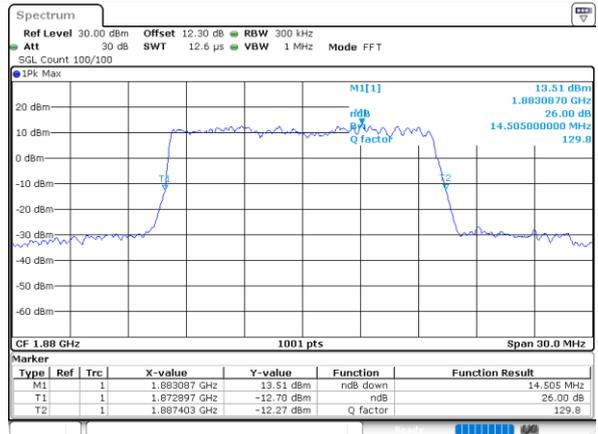
Date: 5.MAR.2025 23:08:10

Middle Channel / 15MHz / QPSK



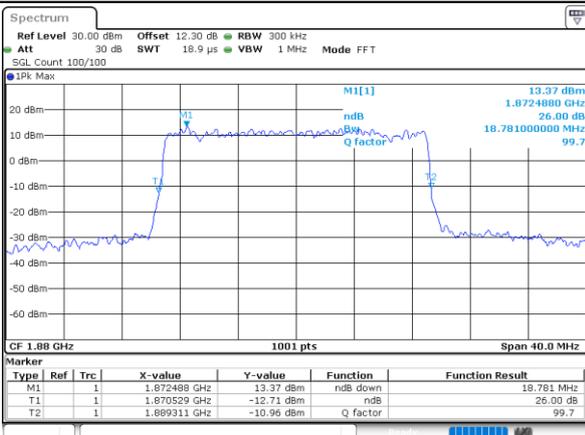
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Middle Channel / 15MHz / 16QAM



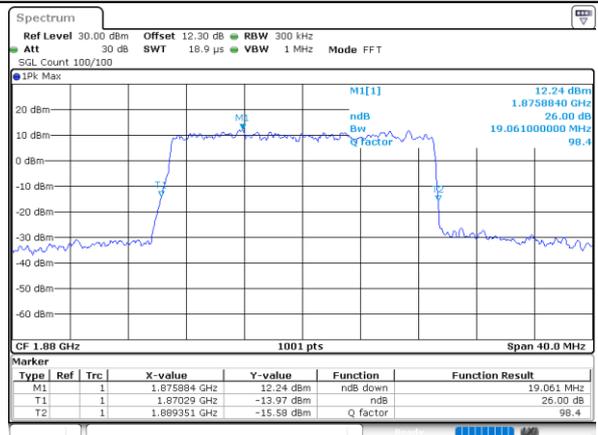
Date: 5.MAR.2025 23:09:18

Middle Channel / 20MHz / QPSK



Date: 5.MAR.2025 23:10:03

Middle Channel / 20MHz / 16QAM

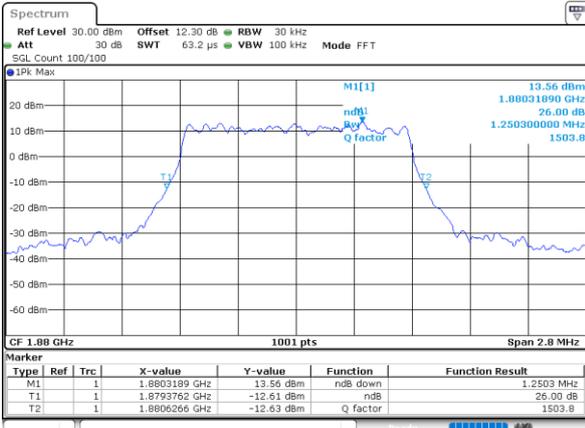


Date: 5.MAR.2025 23:10:25



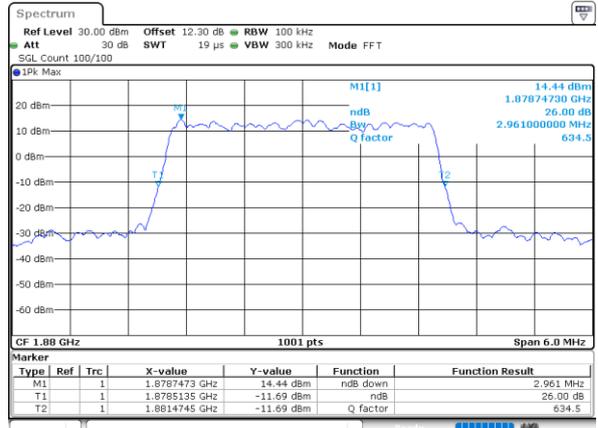
LTE Band 2

Middle Channel / 1.4MHz / 64QAM



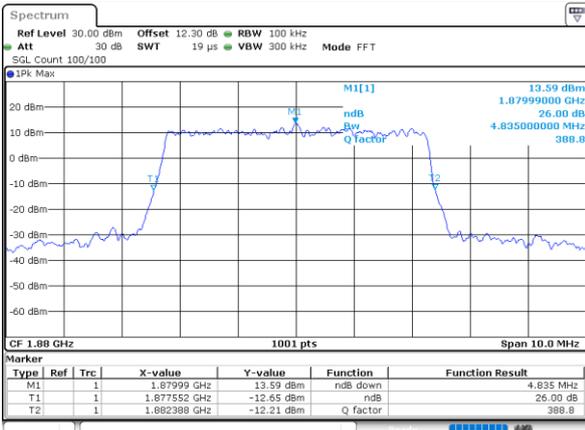
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Middle Channel / 3MHz / 64QAM



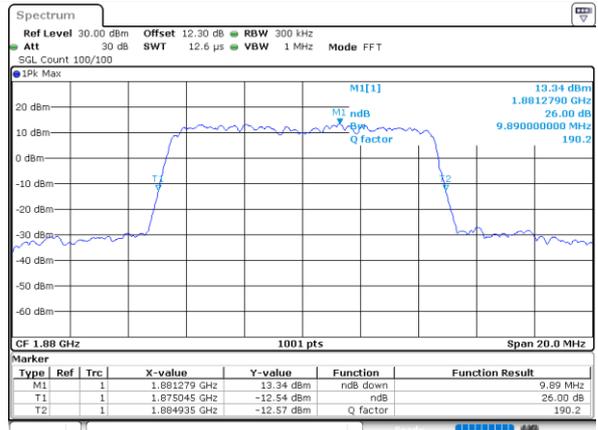
Date: 5.MAR.2025 23:06:16

Middle Channel / 5MHz / 64QAM



Date: 5.MAR.2025 23:07:24

Middle Channel / 10MHz / 64QAM



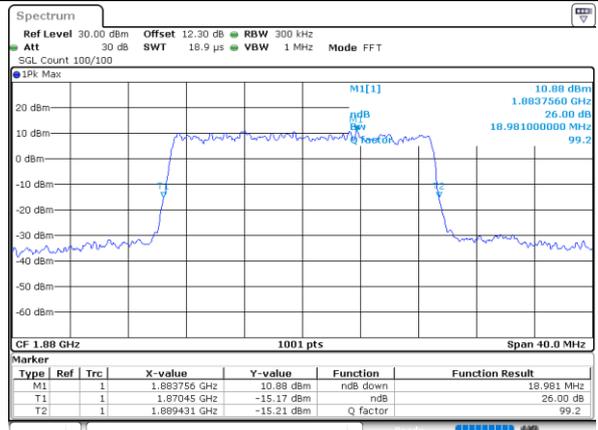
Date: 5.MAR.2025 23:08:32

Middle Channel / 15MHz / 64QAM



Date: 5.MAR.2025 23:09:40

Middle Channel / 20MHz / 64QAM



Date: 5.MAR.2025 23:10:48



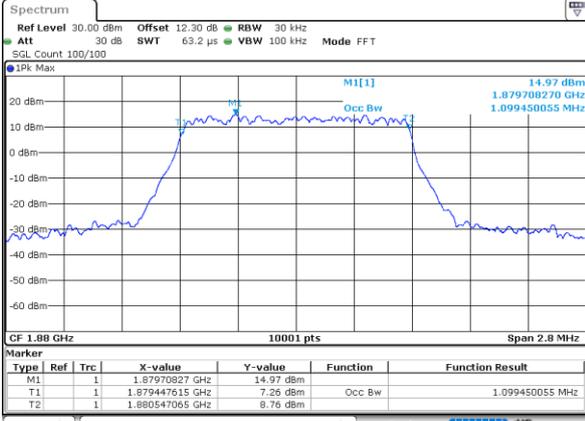
**Occupied Bandwidth**

Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.10	2.70	2.71	4.49	4.47	9.12	9.00	13.49	13.39	17.88	17.95
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.09	-	2.69	-	4.50	-	9.01	-	13.40	-	17.83	-

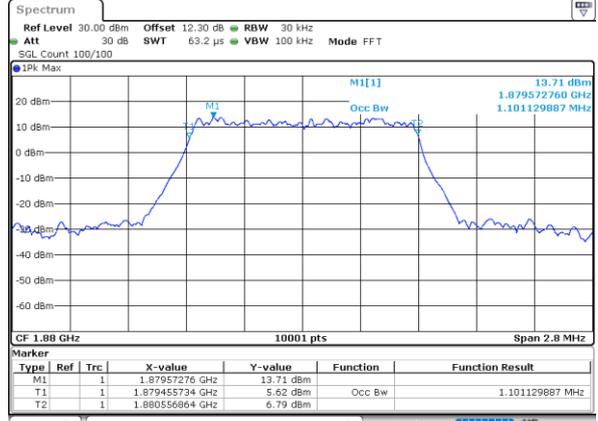


LTE Band 2

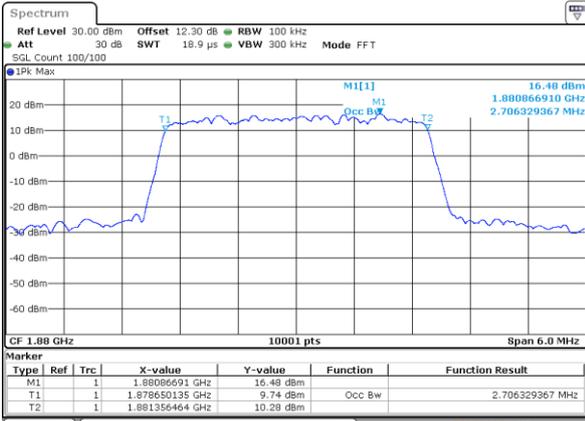
Middle Channel / 1.4MHz / QPSK



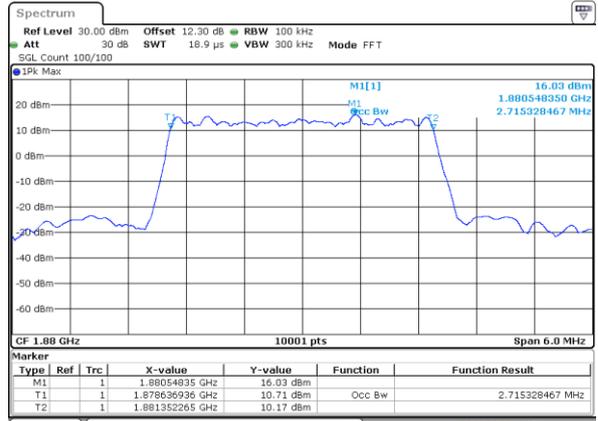
Middle Channel / 1.4MHz / 16QAM



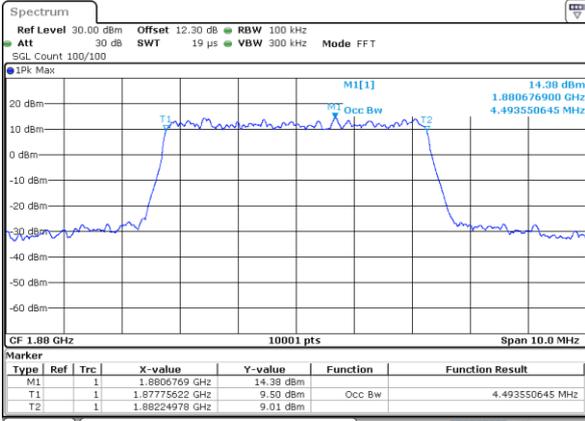
Middle Channel / 3MHz / QPSK



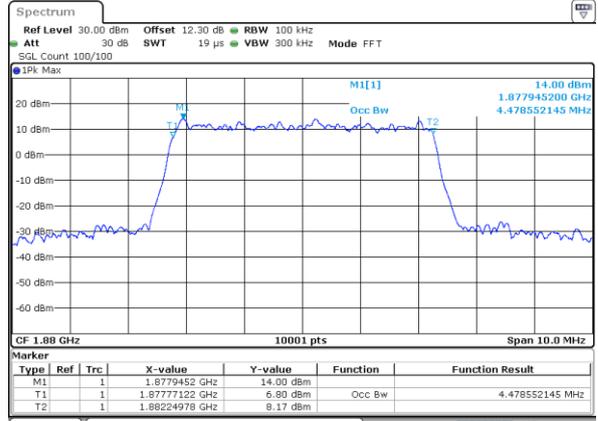
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



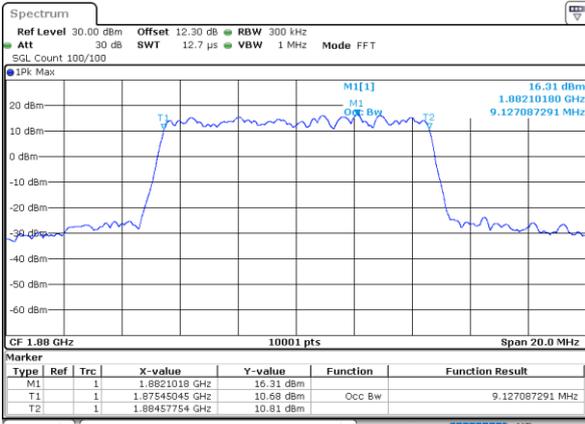
Middle Channel / 5MHz / 16QAM





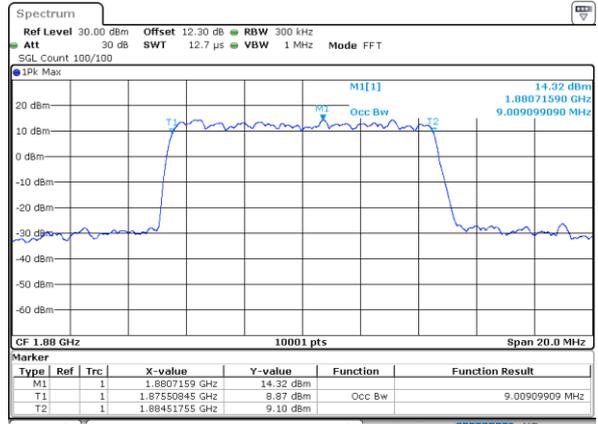
LTE Band 2

Middle Channel / 10MHz / QPSK



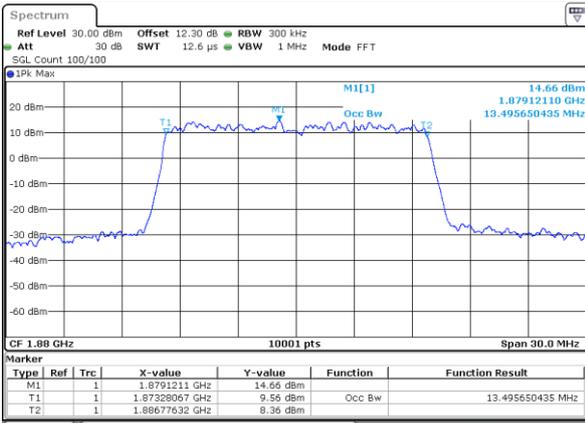
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Middle Channel / 10MHz / 16QAM



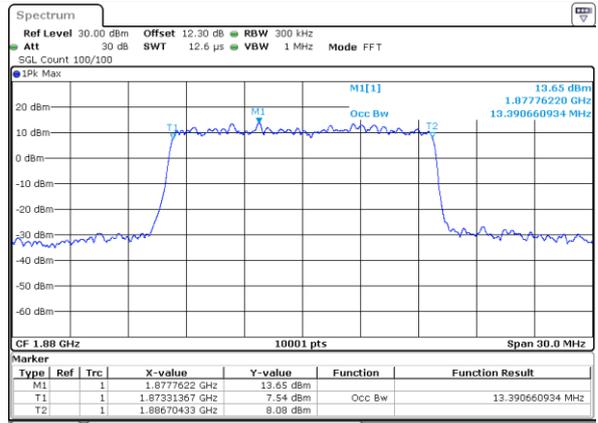
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Middle Channel / 15MHz / QPSK



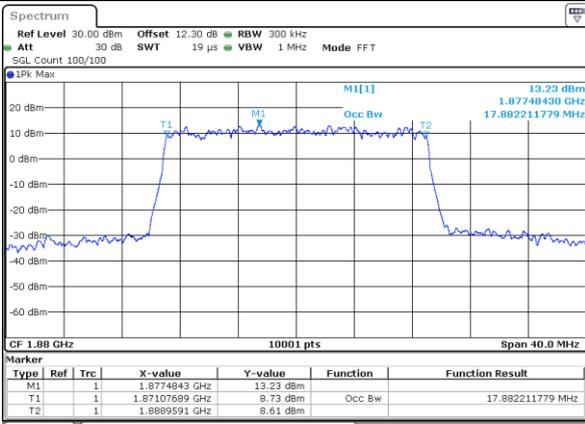
Date: 5\_MAR.2025 23:02:08

Middle Channel / 15MHz / 16QAM



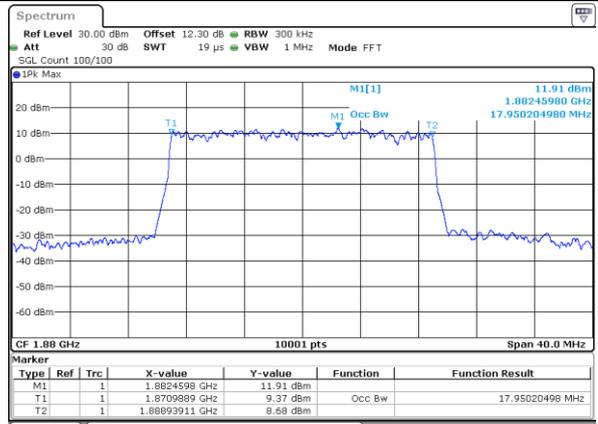
Date: 5\_MAR.2025 23:02:30

Middle Channel / 20MHz / QPSK



Date: 5\_MAR.2025 23:03:16

Middle Channel / 20MHz / 16QAM

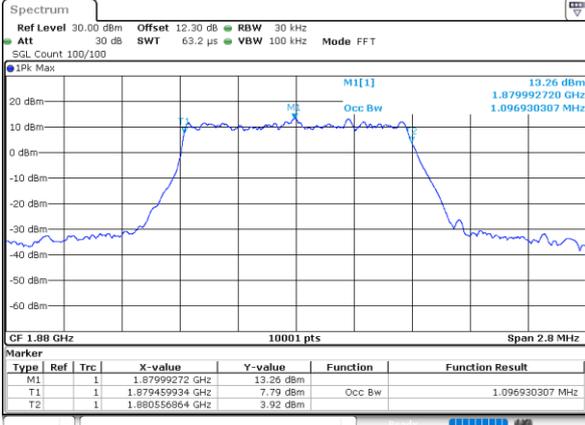


Date: 5\_MAR.2025 23:03:38



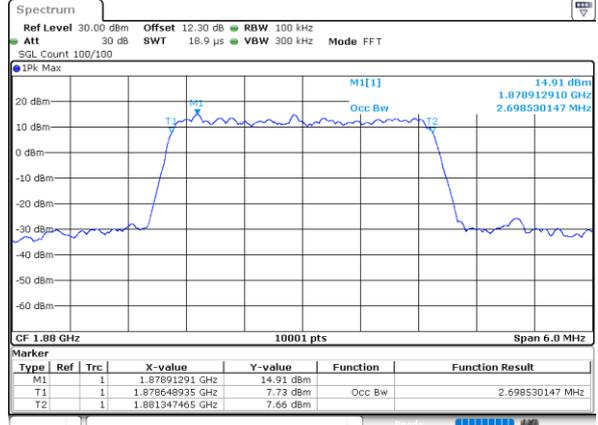
LTE Band 2

Middle Channel / 1.4MHz / 64QAM



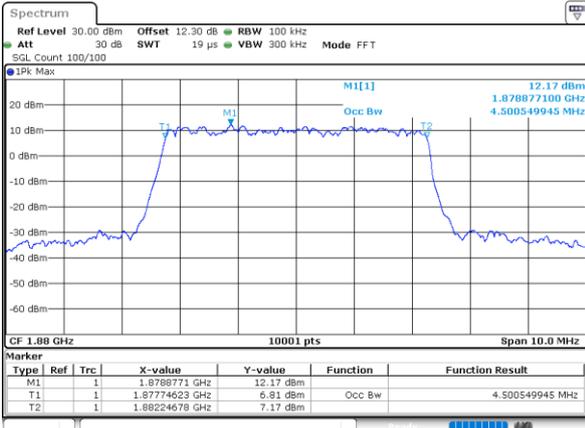
Date: 5\_MAR\_2025 22:58:20

Middle Channel / 3MHz / 64QAM



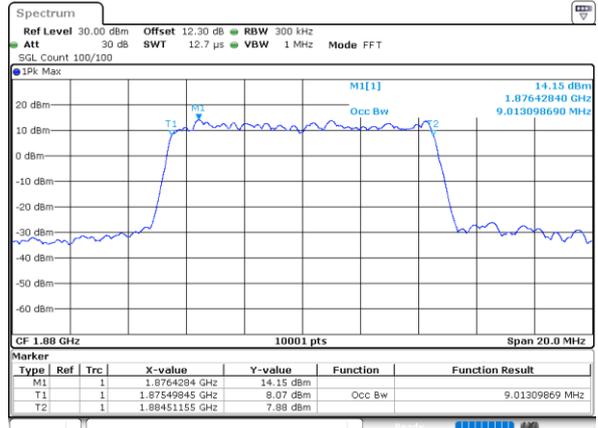
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Middle Channel / 5MHz / 64QAM



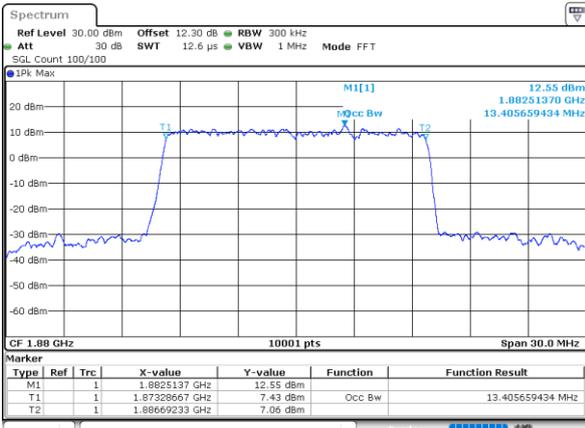
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Middle Channel / 10MHz / 64QAM



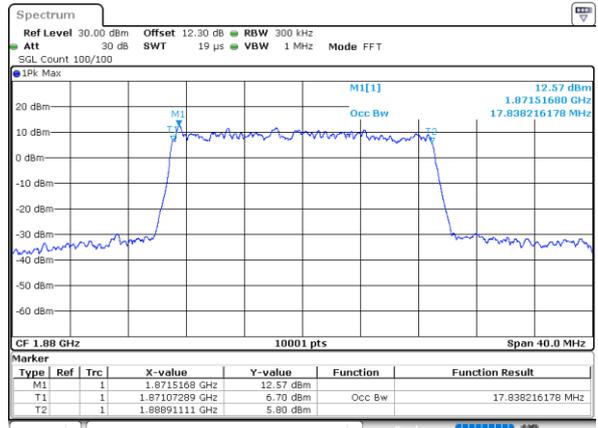
Date: 5\_MAR\_2025 23:01:45

Middle Channel / 15MHz / 64QAM



Date: 5\_MAR\_2025 23:02:53

Middle Channel / 20MHz / 64QAM



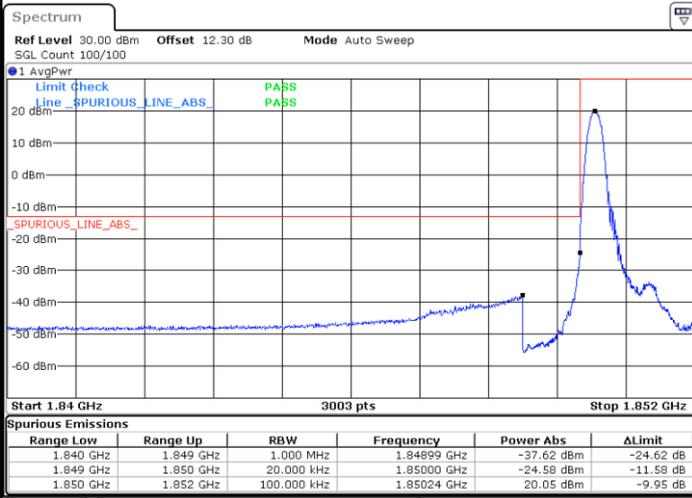
Date: 5\_MAR\_2025 23:04:01



# Conducted Band Edge

## LTE Band 2 / 1.4MHz / QPSK

### Lowest Band Edge / 1RB



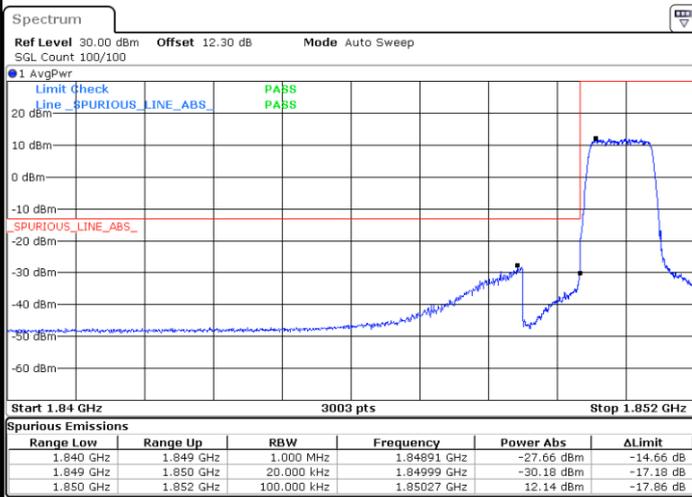
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### Highest Band Edge / 1RB



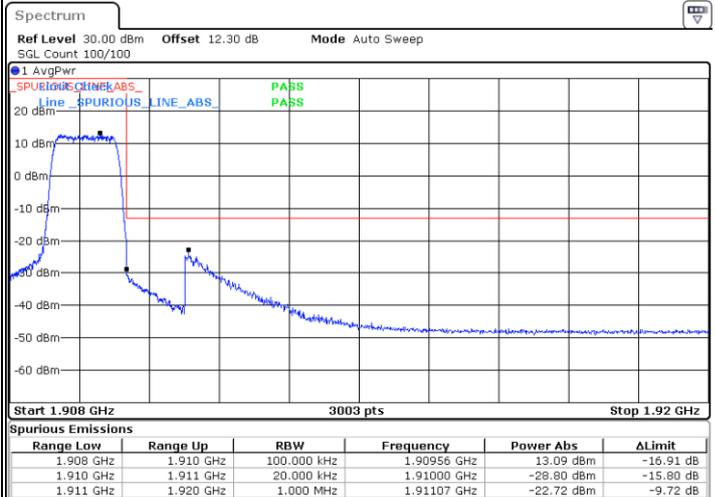
Date: 5.MAR.2025 21:50:46

### Lowest Band Edge / Full RB



Date: 5.MAR.2025 21:48:08

### Highest Band Edge / Full RB

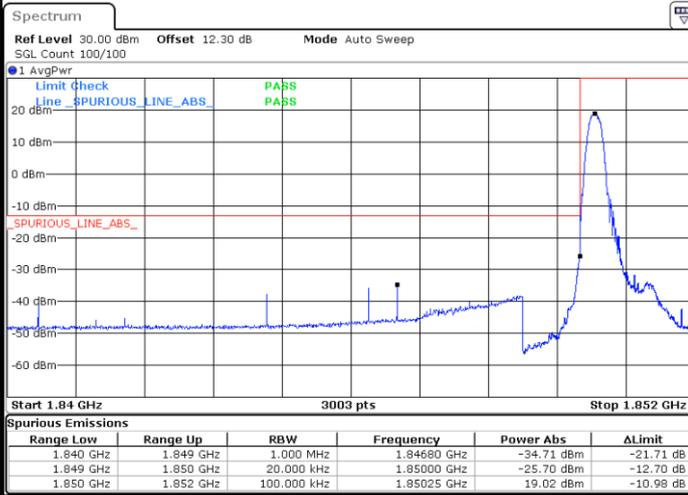


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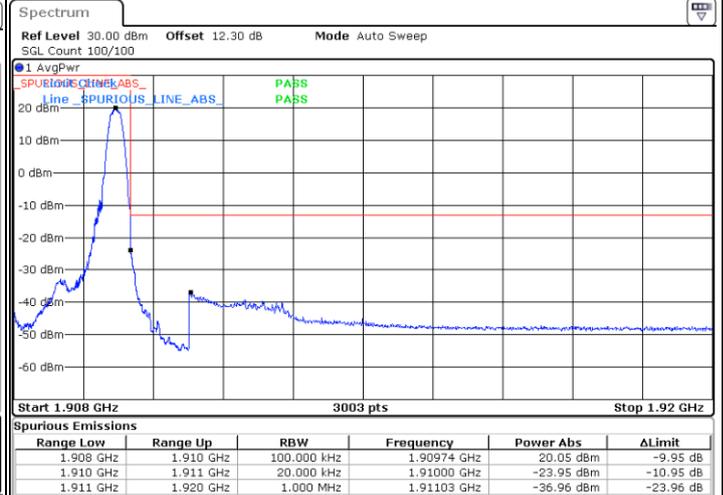
LTE Band 2 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



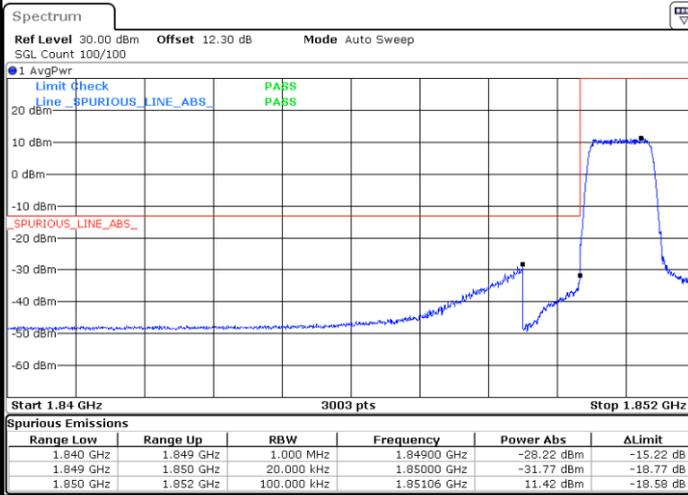
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Highest Band Edge / 1 RB



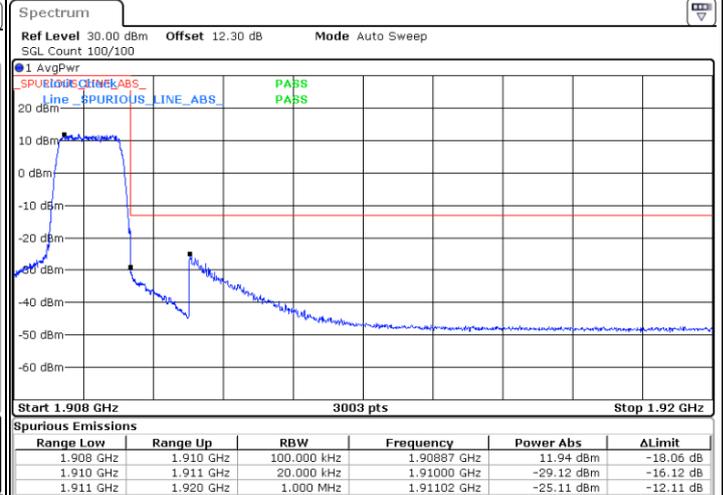
Date: 5.MAR.2025 21:51:39

Lowest Band Edge / Full RB



Date: 5.MAR.2025 21:49:01

Highest Band Edge / Full RB

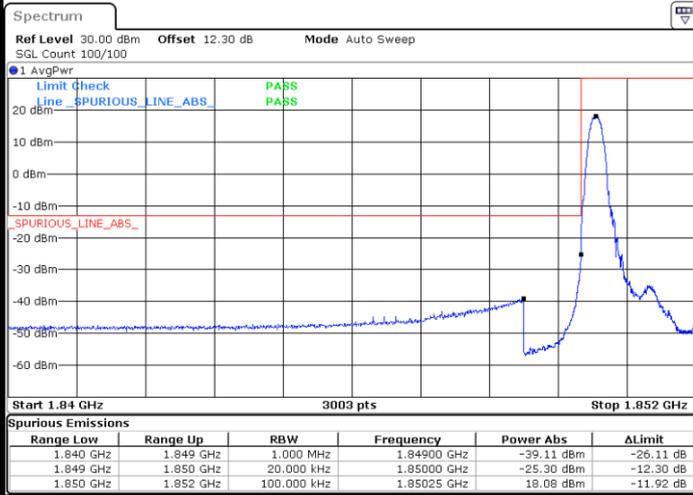


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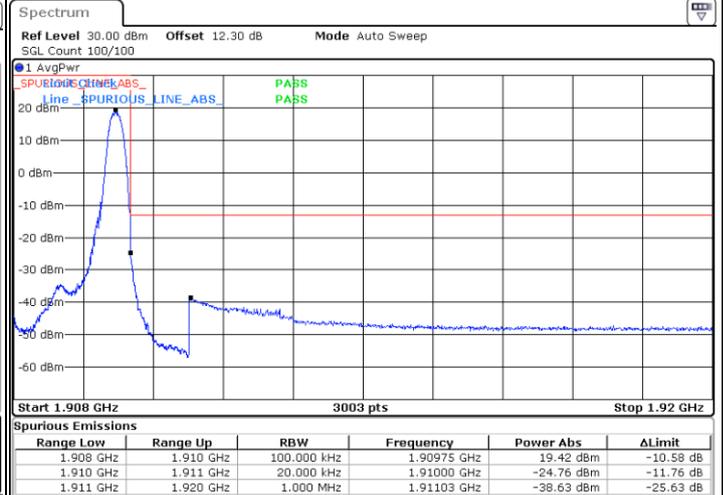


LTE Band 2 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



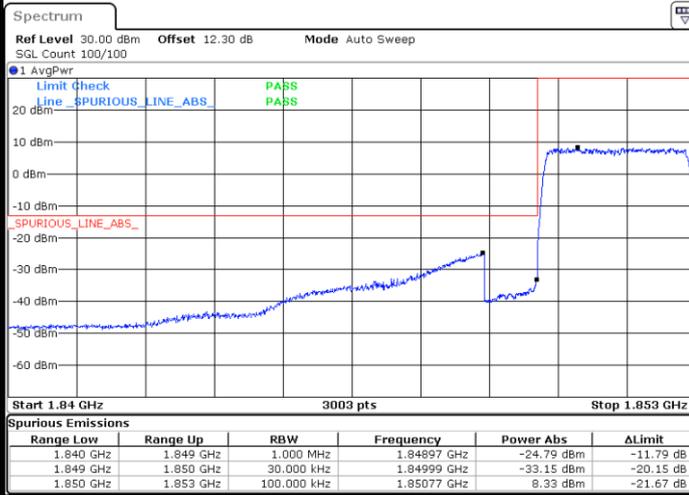
Highest Band Edge / Full RB





LTE Band 2 / 3MHz / QPSK

Lowest Band Edge / Full RB



Date: 5.MAR.2025 21:56:04

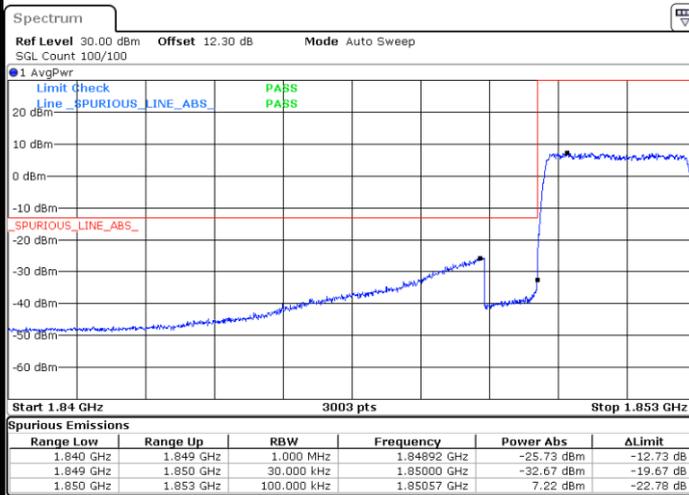
Highest Band Edge / Full RB



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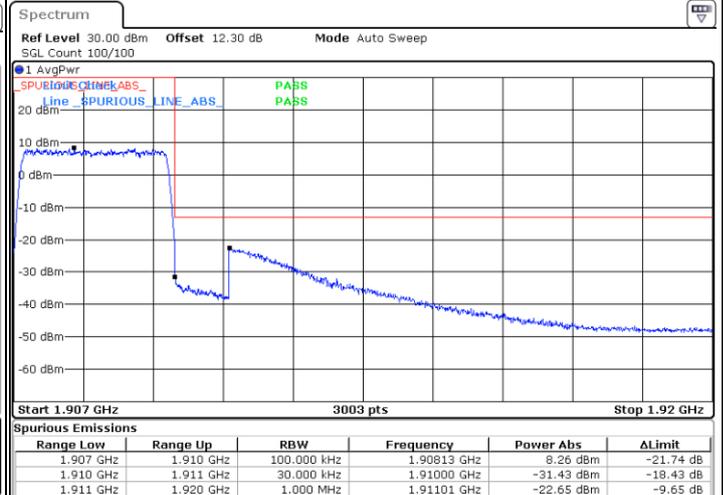
LTE Band 2 / 3MHz / 16QAM

Lowest Band Edge / Full RB

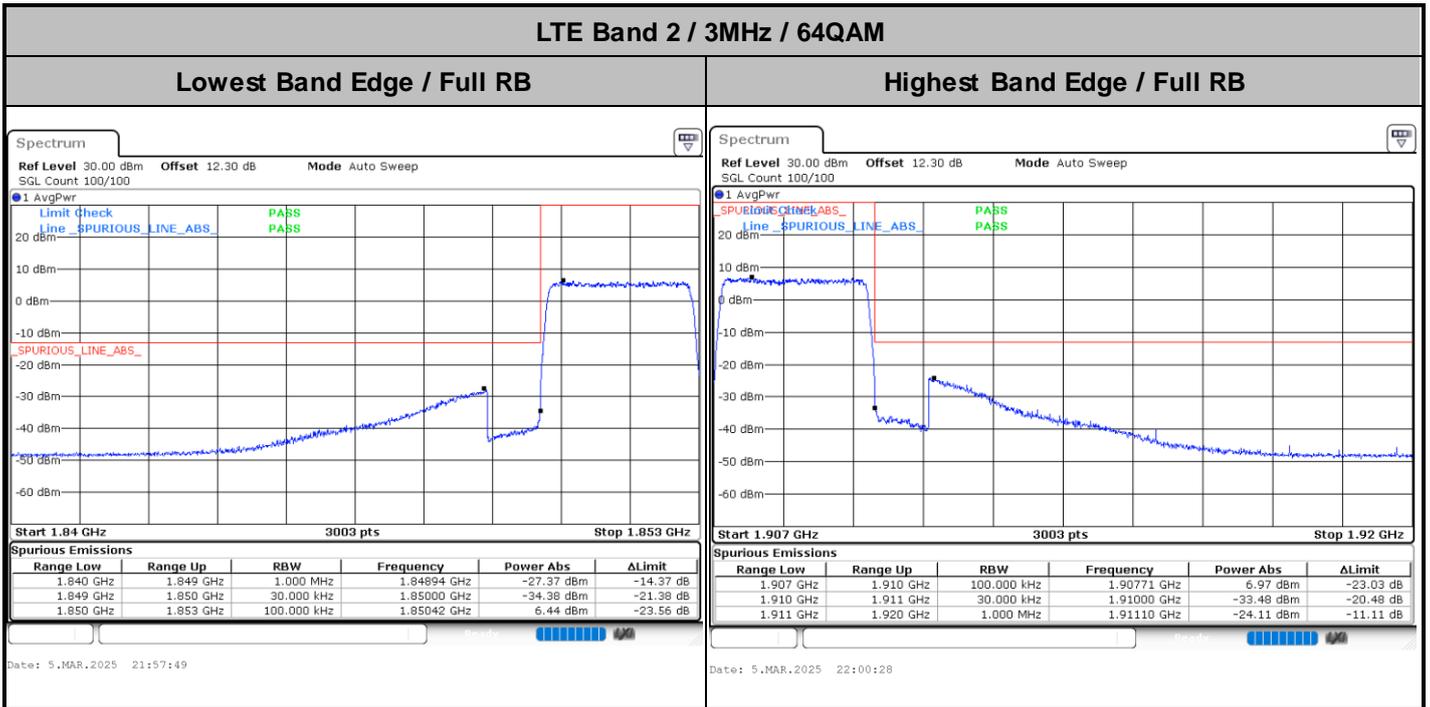


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Highest Band Edge / Full RB



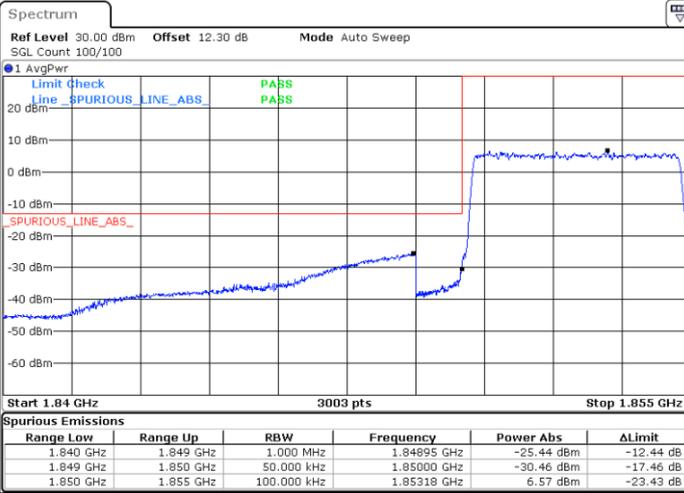
Date: 5.MAR.2025 21:59:35





LTE Band 2 / 5MHz / QPSK

Lowest Band Edge / Full RB



Date: 5.MAR.2025 22:01:21

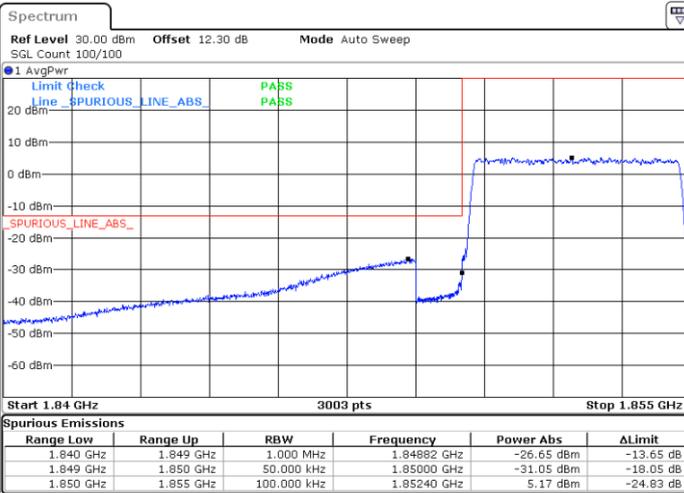
Highest Band Edge / Full RB



Date: 5.MAR.2025 22:04:00

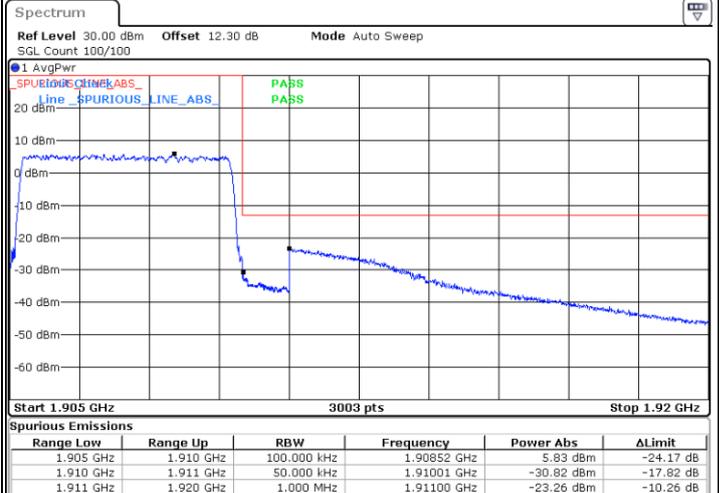
LTE Band 2 / 5MHz / 16QAM

Lowest Band Edge / Full RB



Date: 5.MAR.2025 22:02:14

Highest Band Edge / Full RB

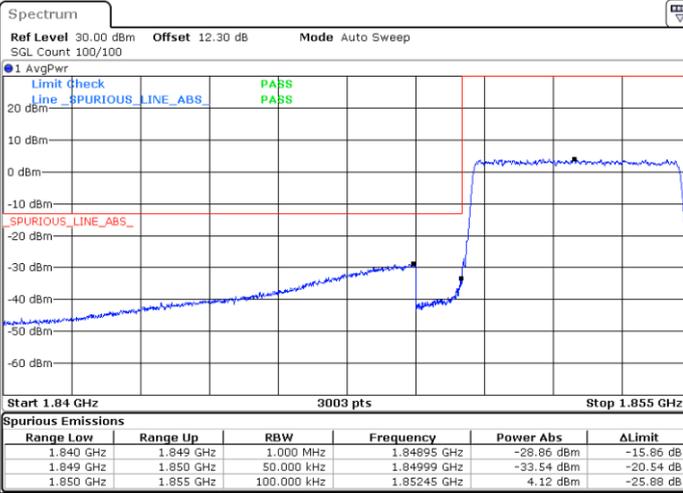


Date: 5.MAR.2025 22:04:52



LTE Band 2 / 5MHz / 64QAM

Lowest Band Edge / Full RB



Date: 5.MAR.2025 22:03:07

Highest Band Edge / Full RB

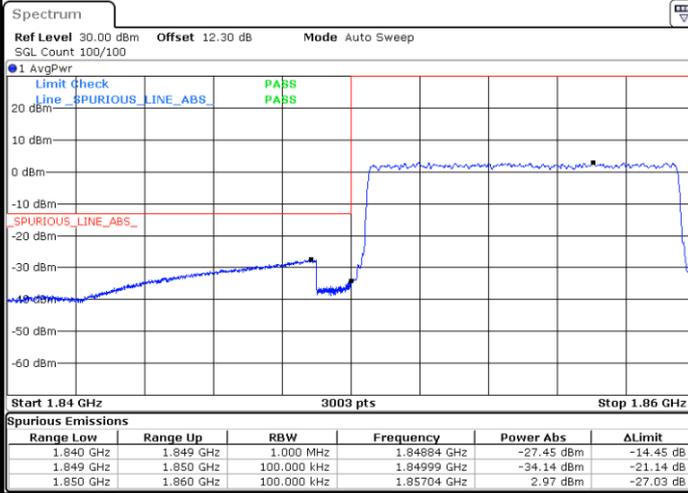


Date: 5.MAR.2025 22:40:12



LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / Full RB



Date: 5.MAR.2025 22:41:05

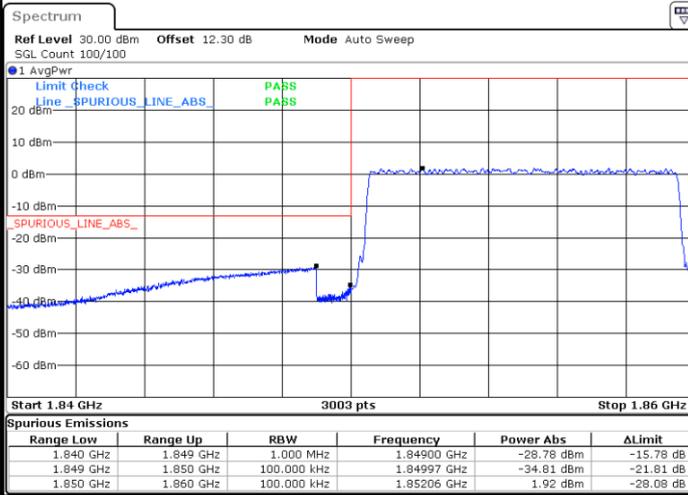
Highest Band Edge / Full RB



Date: 5.MAR.2025 22:43:43

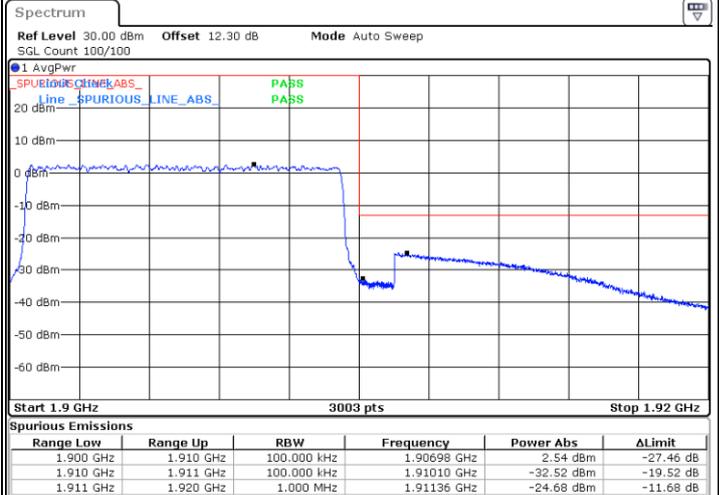
LTE Band 2 / 10MHz / 16QAM

Lowest Band Edge / Full RB



Date: 5.MAR.2025 22:41:58

Highest Band Edge / Full RB



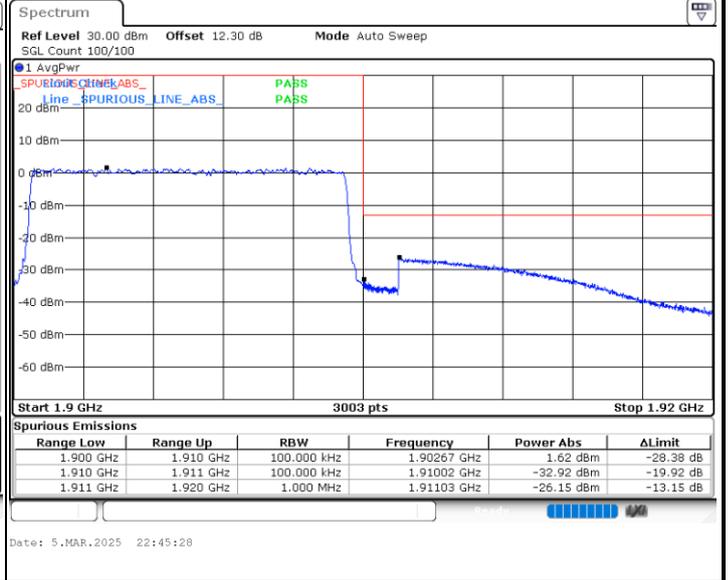
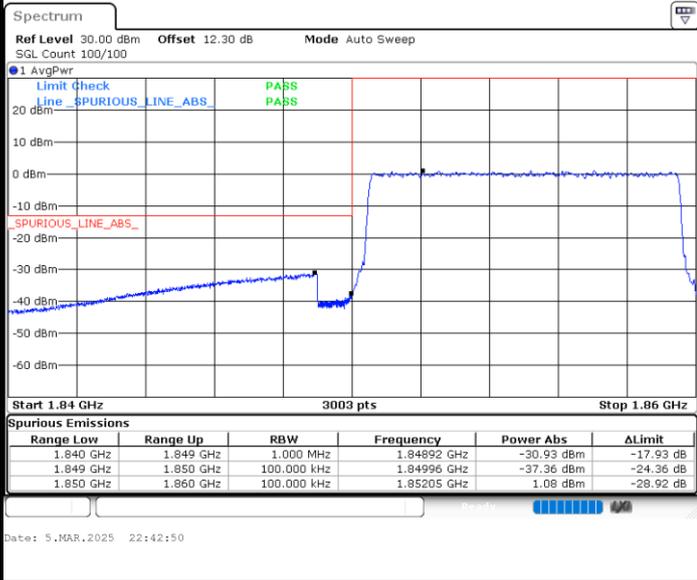
Date: 5.MAR.2025 22:44:35



LTE Band 2 / 10MHz / 64QAM

Lowest Band Edge / Full RB

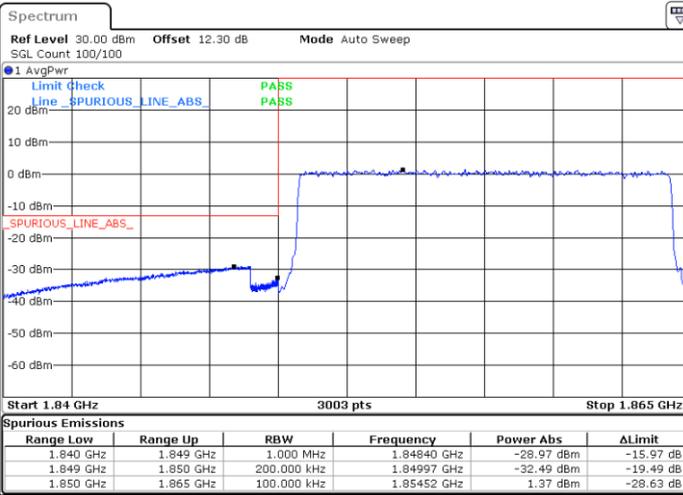
Highest Band Edge / Full RB





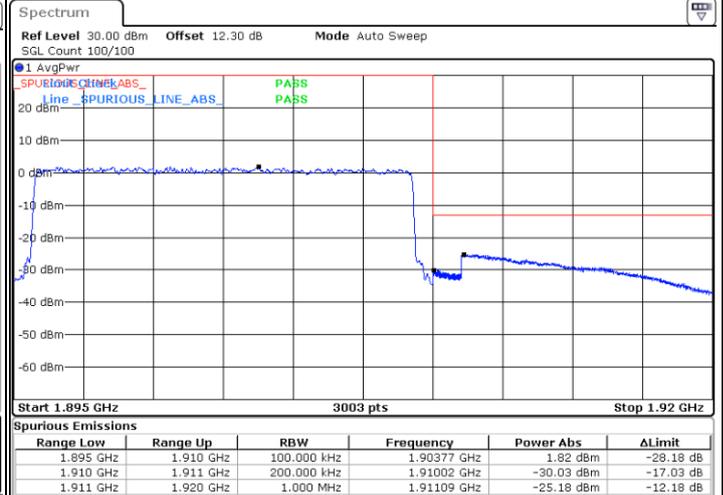
LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / Full RB



Date: 5.MAR.2025 22:46:21

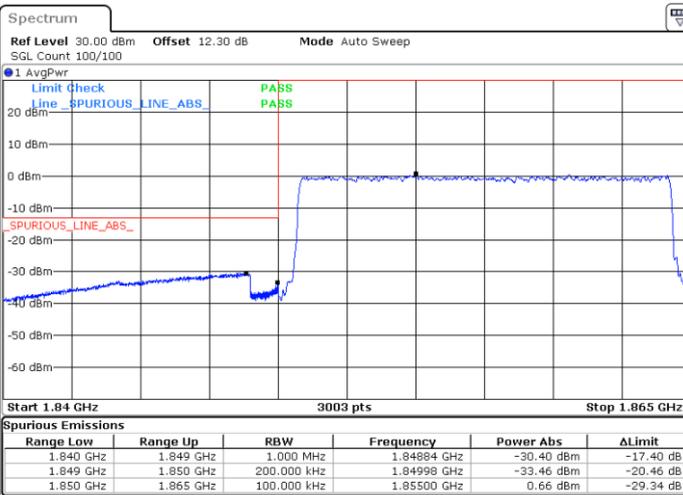
Highest Band Edge / Full RB



Date: 5.MAR.2025 22:48:59

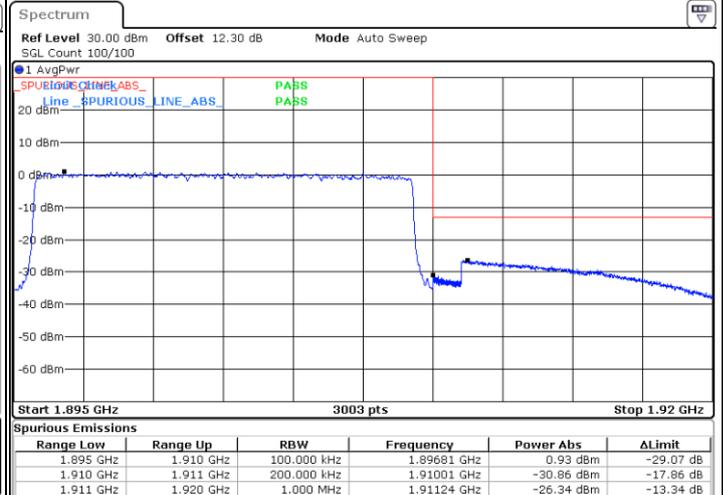
LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / Full RB



Date: 5.MAR.2025 22:47:14

Highest Band Edge / Full RB



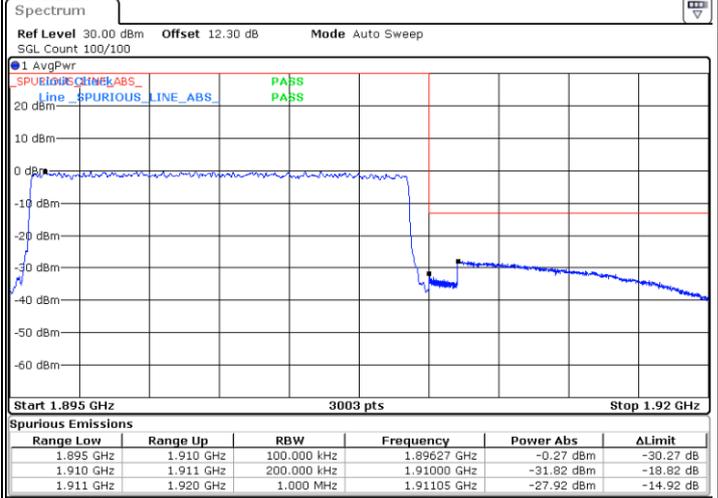
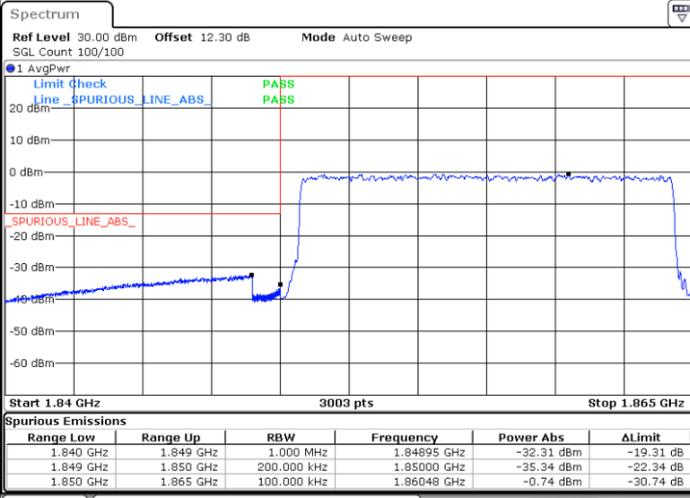
Date: 5.MAR.2025 22:49:52



LTE Band 2 / 15MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



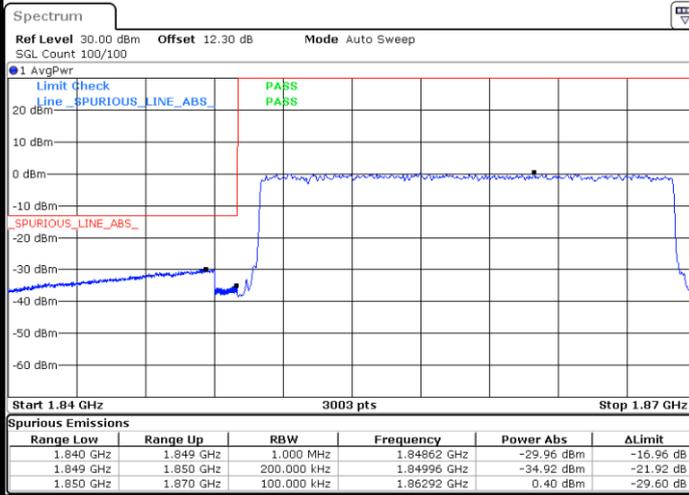
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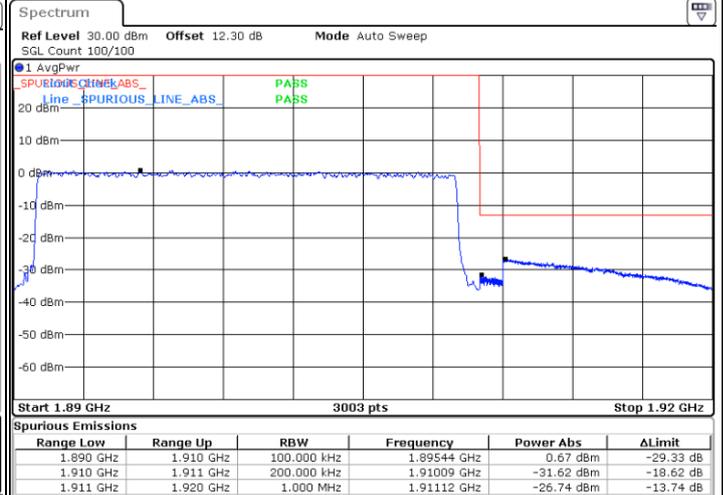
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / Full RB



Date: 5.MAR.2025 22:51:37

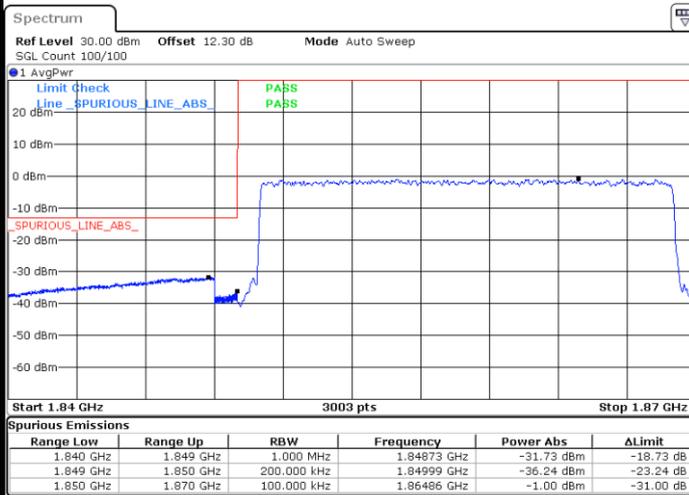
Highest Band Edge / Full RB



Date: 5.MAR.2025 22:54:15

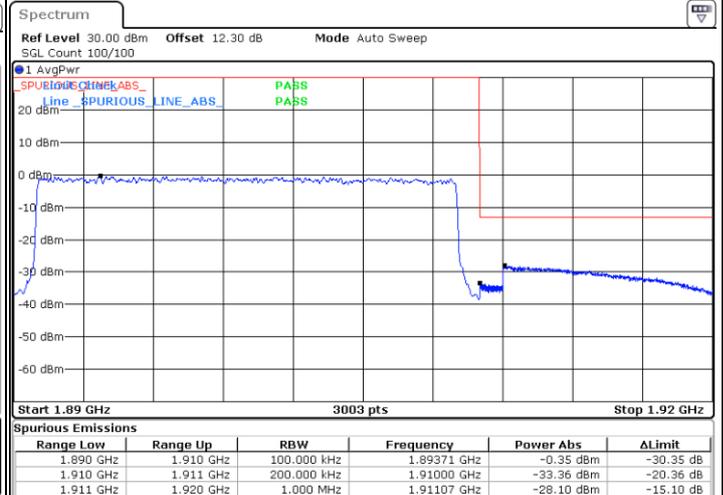
LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / Full RB

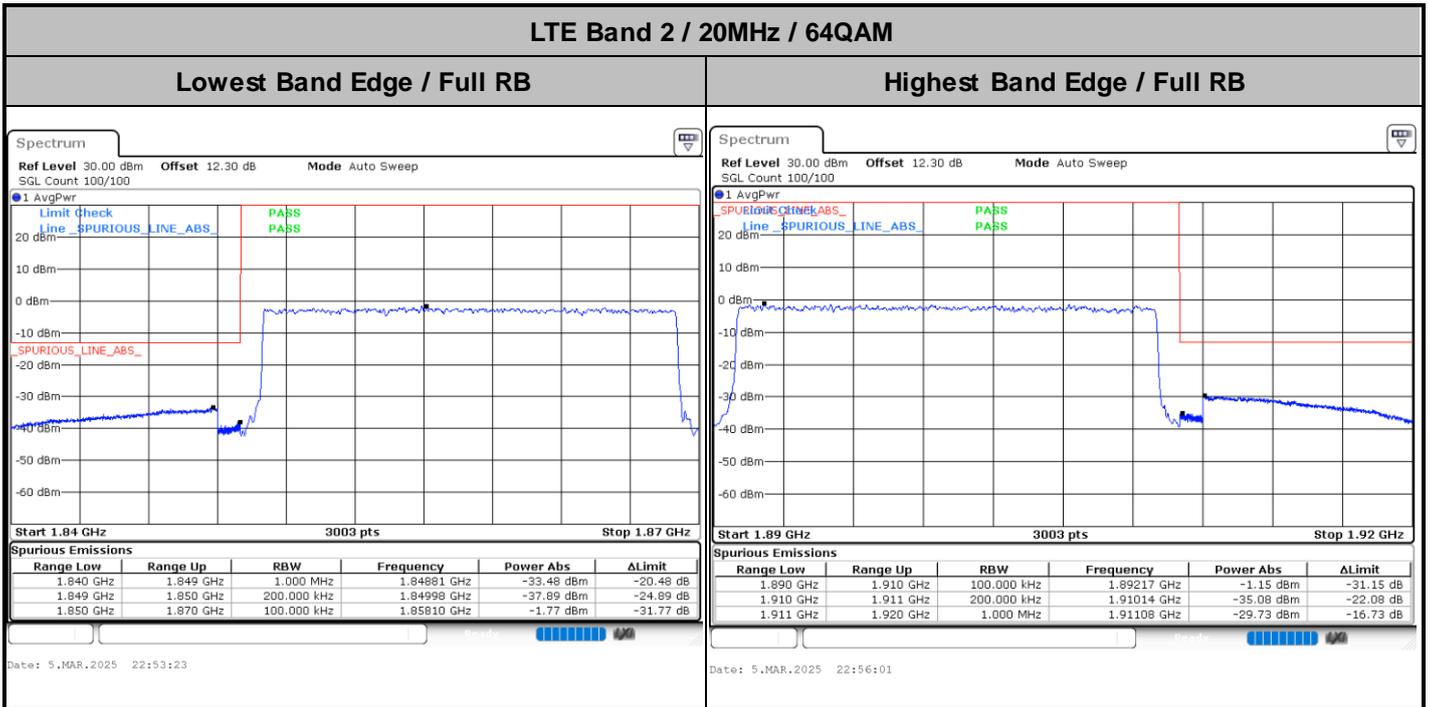


Date: 5.MAR.2025 22:52:30

Highest Band Edge / Full RB



Date: 5.MAR.2025 22:55:08



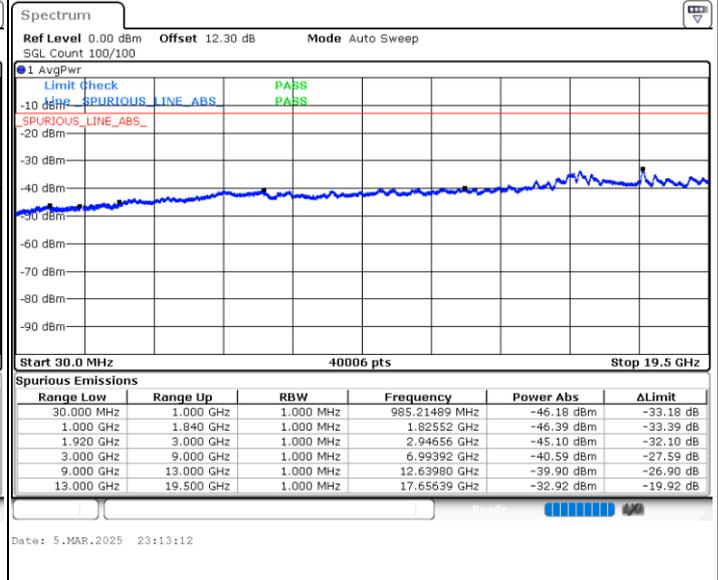
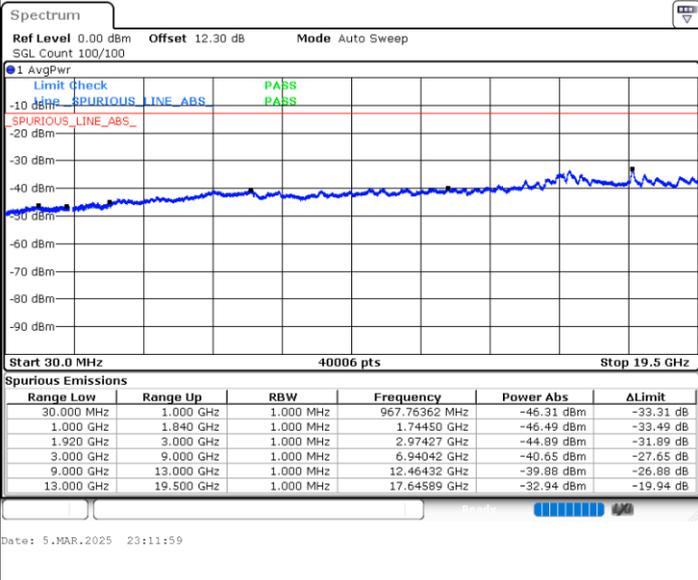


# Conducted Spurious Emission

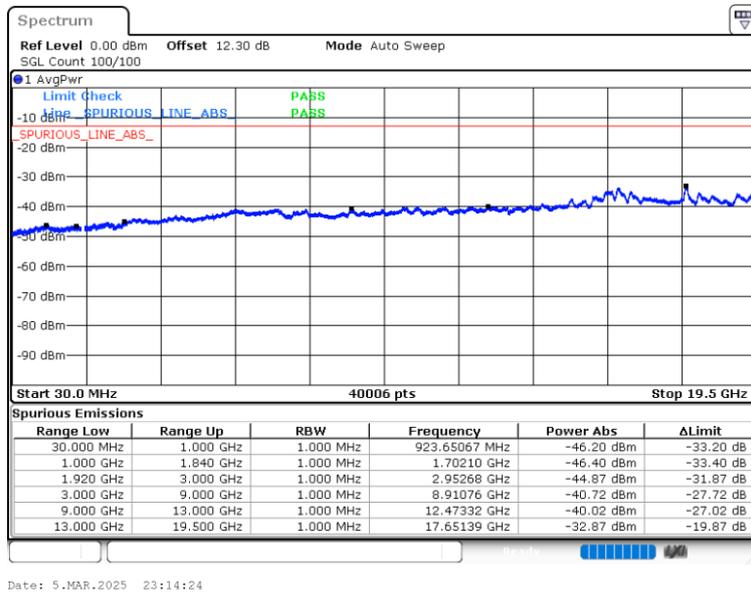
## LTE Band 2 / 1.4MHz

### Lowest Channel / QPSK

### Middle Channel / QPSK



### Highest Channel / QPSK

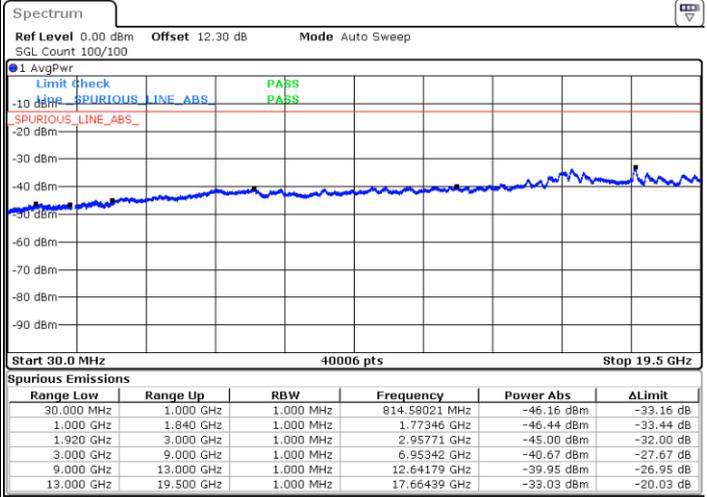
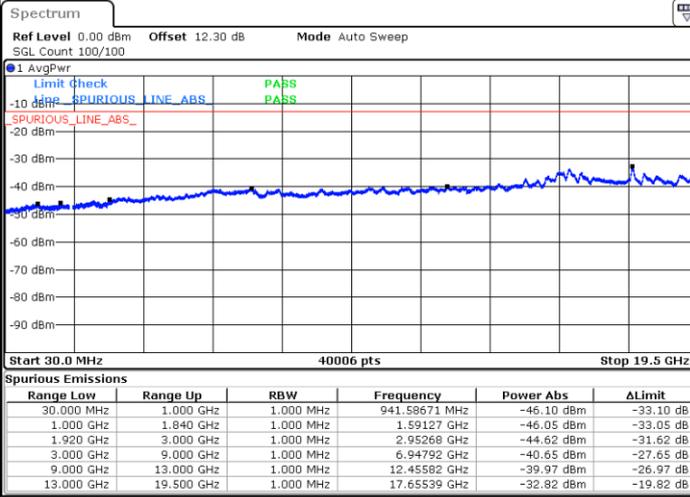




LTE Band 2 / 3MHz

Lowest Channel / QPSK

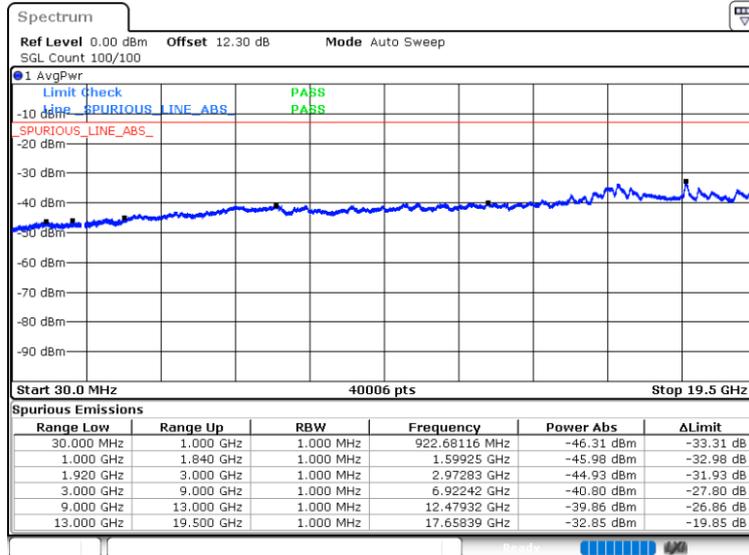
Middle Channel / QPSK



Date: 5.MAR.2025 23:15:37

Date: 5.MAR.2025 23:16:50

Highest Channel / QPSK



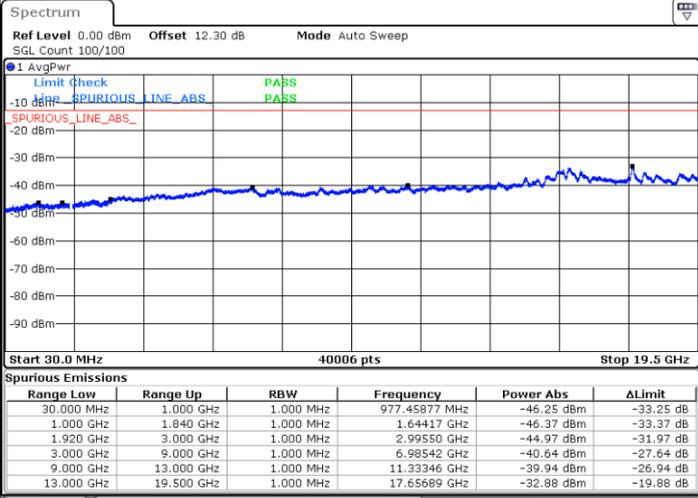
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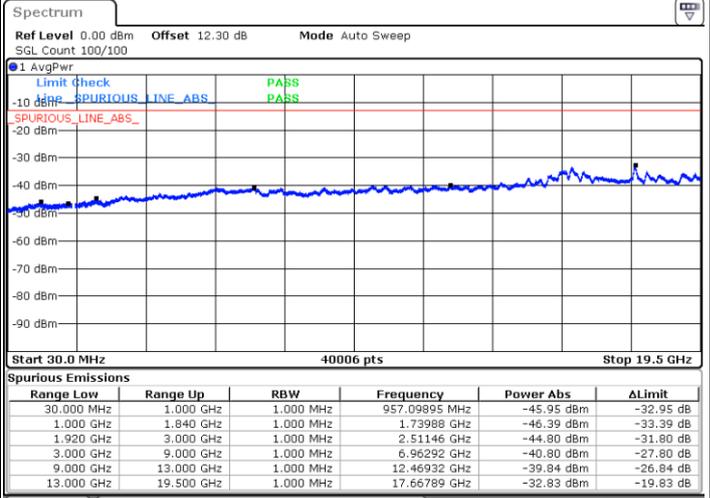
LTE Band 2 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

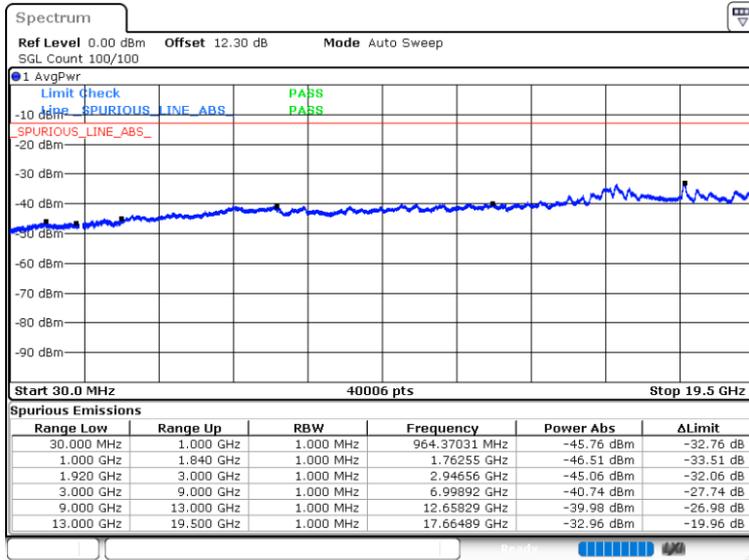


Date: 5.MAR.2025 23:19:15



Date: 5.MAR.2025 23:20:27

Highest Channel / QPSK



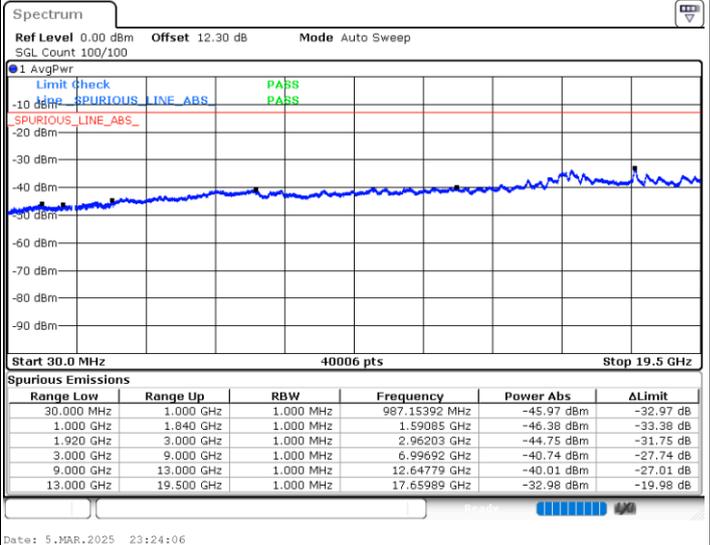
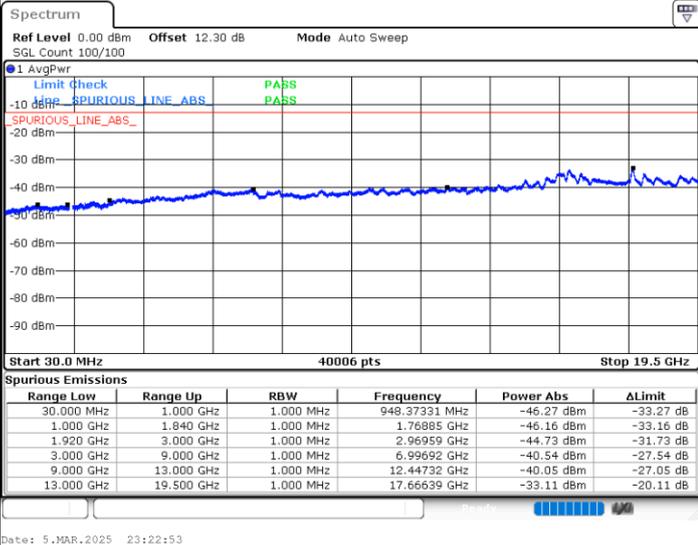
Date: 5.MAR.2025 23:21:40



LTE Band 2 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

