



FCC RF Test Report

APPLICANT : FCNT LLC.
EQUIPMENT : Mobile cellular phone
BRAND NAME : Raku-Raku smartphone a
MODEL NAME : A401FC
FCC ID : 2BEPUFMP198
STANDARD : 47 CFR Part 2, 24(E), 27(L), 27(H), 27(M)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Apr. 24, 2024 ~ Jun. 03, 2024

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

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

Jason Jia

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Sporton International Inc. (Kunshan)

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§27.50(c)(10)	Effective Radiated Power (Band 12)	ERP < 3 Watt	PASS	-
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2)(Band 41)	EIRP < 2Watt		-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt		-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	-	Report Only	-
3.7	§2.1051 §24.238(a) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 12)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 41)	§27.53(m)(4)		
3.8	§2.1051 §24.238(a) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 12)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 41)	< 55+10log ₁₀ (P[Watts])		
3.9	§2.1055 §24.235 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §24.238(a) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 12)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 26.02 dB at 10336.00 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 41)	< 55+10log ₁₀ (P[Watts])		

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.



1 General Description

1.1 Applicant

FCNT LLC.

Sanki Yamato Bldg. 3F, 7-10-1, Chuurinkan, Yamato-shi, Kanagawa, 242-0007, Japan

1.2 Manufacturer

FCNT LLC.

Sanki Yamato Bldg. 3F, 7-10-1, Chuurinkan, Yamato-shi, Kanagawa, 242-0007, Japan

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile cellular phone
Brand Name	Raku-Raku smartphone a
Model Name	A401FC
FCC ID	2BEPUFMP198
IMEI Code	Conducted : 354401310043544/354401310043554 Radiation : 354401310039765/354401310039773
HW Version	V4
SW Version	FAC V006
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz
Rx Frequency	LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2 : 17.15 dBm LTE Band 4 : 17.08 dBm LTE Band 12 : 23.16 dBm LTE Band 41 : 15.37 dBm
Antenna Gain	LTE Band 2 : -2.13 dBi LTE Band 4 : -2.17 dBi LTE Band 12 : -2.87 dBi LTE Band 41 : -2.67 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

1.5 Modification of EUT

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



1.6 Maximum ERP/EIRP Power and Emission Designator

LTE Band 2		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1850.7 ~ 1909.3	0.0310	1M09G7D	0.0299	1M10W7D
3	1851.5 ~ 1908.5	0.0304	2M70G7D	0.0313	2M70W7D
5	1852.5 ~ 1907.5	0.0309	4M48G7D	0.0306	4M49W7D
10	1855.0 ~ 1905.0	0.0312	8M99G7D	0.0310	9M01W7D
15	1857.5 ~ 1902.5	0.0316	13M5G7D	0.0308	13M4W7D
20	1860.0 ~ 1900.0	0.0318	17M8G7D	0.0312	17M8W7D
LTE Band 4		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1710.7 ~ 1754.3	0.0303	1M09G7D	0.0299	1M09W7D
3	1711.5 ~ 1753.5	0.0301	2M72G7D	0.0295	2M72W7D
5	1712.5 ~ 1752.5	0.0308	4M48G7D	0.0307	4M48W7D
10	1715.0 ~ 1750.0	0.0296	9M09G7D	0.0295	9M07W7D
15	1717.5 ~ 1747.5	0.0294	13M5G7D	0.0301	13M5W7D
20	1720.0 ~ 1745.0	0.0310	17M9G7D	0.0304	17M9W7D
LTE Band 12		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	699.7 ~ 715.3	0.0643	1M09G7D	0.0536	1M10W7D
3	700.5 ~ 714.5	0.0643	2M70G7D	0.0548	2M72W7D
5	701.5 ~ 713.5	0.0643	4M48G7D	0.0542	4M50W7D
10	704.0 ~ 711.0	0.0652	9M07G7D	0.0552	9M05W7D
LTE Band 41		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2498.5 ~ 2687.5	0.0182	4M49G7D	0.0182	4M50W7D
10	2501.0 ~ 2685.0	0.0180	9M01G7D	0.0179	9M01W7D
15	2503.5 ~ 2682.5	0.0183	13M4G7D	0.0182	13M5W7D
20	2506.0 ~ 2680.0	0.0186	17M9G7D	0.0185	17M9W7D



1.7 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-KS	CN1257	314309

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

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	SPORTON	FCC LTE_Ver2.0 Auto_china_210503	2.0
2.	03CH04-SZ	AUDIX	E3	6.2009-8-24



1.9 Applicable Standards

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

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

Remark:

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



2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

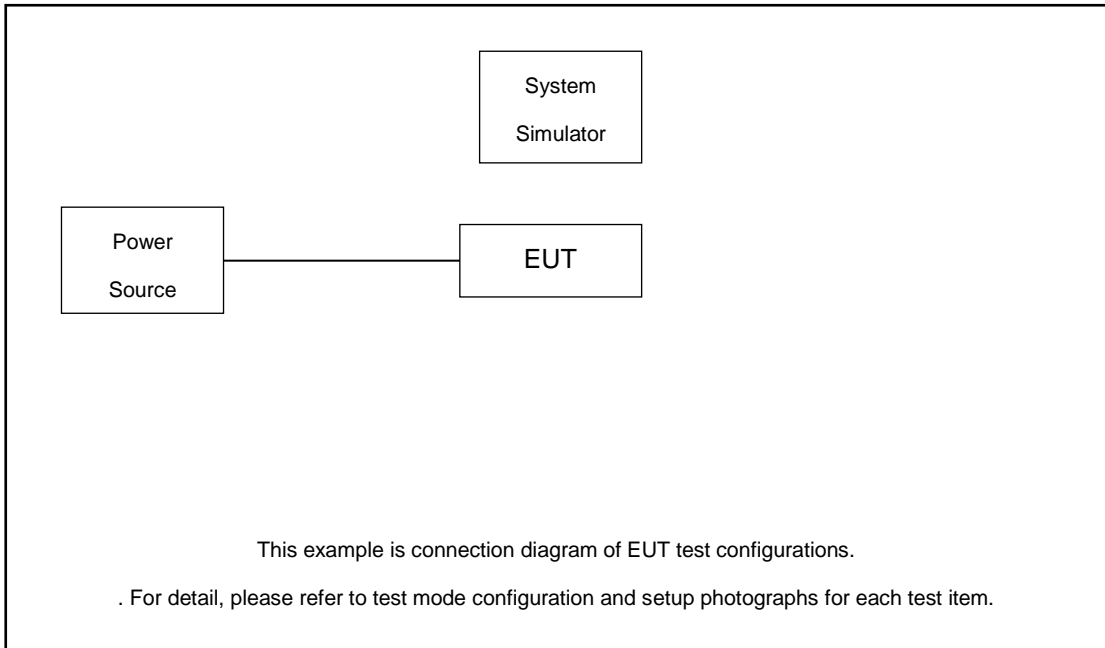
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (Z Plane)

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Ave rage Ratio	2						v	v	v	v			v		v	
	4						v	v	v	v			v		v	
	12				v	-	-	v	v	v			v		v	
	41	-	-				v	v	v	v			v		v	
26dB and 99% Bandwidth	2	v	v	v	v	v	v	v	v				v		v	
	4	v	v	v	v	v	v	v	v				v		v	
	12	v	v	v	v	-	-	v	v				v		v	
	41	-	-	v	v	v	v	v	v				v		v	
Conducted Band Edge	2	v	v	v	v	v	v	v	v	v	v		v	v		v
	4	v	v	v	v	v	v	v	v	v	v		v	v		v
	12	v	v	v	v	-	-	v	v	v	v		v	v		v
	41	-	-	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	2	v	v	v	v	v	v	v				v			v	v
	4	v	v	v	v	v	v	v				v			v	v
	12	v	v	v	v	-	-	v				v			v	v
	41	-	-	v	v	v	v	v				v			v	v
Frequency Stability	2				v			v						v		v
	4				v			v						v		v
	12				v	-	-	v						v		v
	41	-	-		v			v						v		v



Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	12	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
Radiated Spurious Emission	2	Worst Case												v		
	4	Worst Case												v		
	12	Worst Case												v		
	41	Worst Case												v		
Note	<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. 															

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

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

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss 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.

$$\text{Offset} = \text{RF cable loss.}$$

Following shows an offset computation example with cable loss 5.4 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} \\ &= 5.4 \text{ (dB)} \end{aligned}$$



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

3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.



3.4 Conducted Output Power and ERP/EIRP

3.4.1 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 3 Watts for LTE Band 12.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 41.

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

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 Test Procedures

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



3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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



3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

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

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

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

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 (h)

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

27.53(m)(4)

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



3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
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 or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
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.

Example:

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

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$$

8. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.



3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

For Band 41:

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

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

3.8.2 Test Procedures

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



3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

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

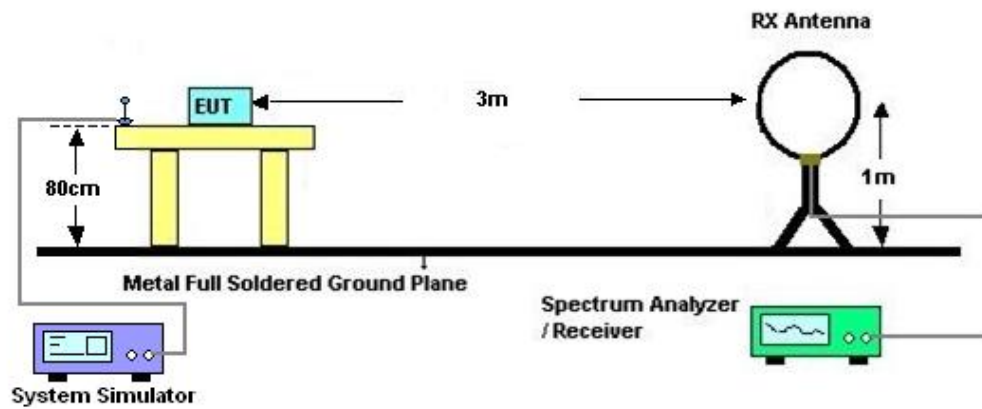
4 Radiated Test Items

4.1 Measuring Instruments

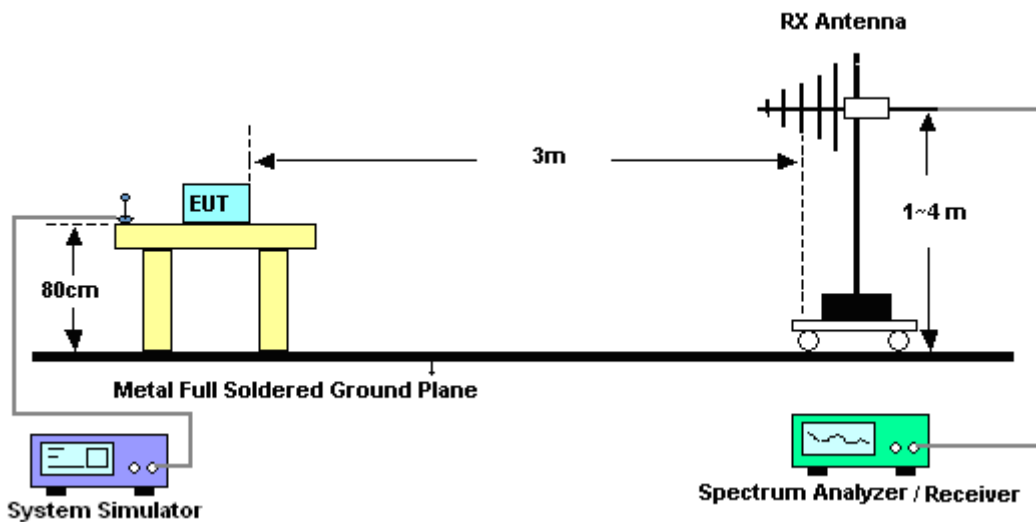
See list of measuring instruments of this test report.

4.2 Test Setup

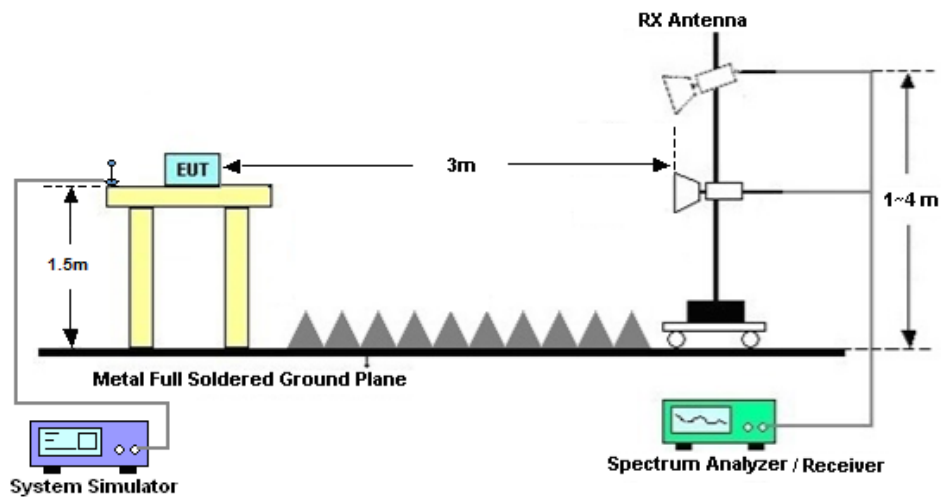
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.



4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

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

For Band 41

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

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

4.4.2 Test Procedures

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

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] (dB)$
 $= [30 + 10\log(P)] (dBm) - [43 + 10\log(P)] (dB)$
 $= -13dBm.$

13. For Band 41:

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Apr. 24, 2024~ Apr. 25, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Apr. 24, 2024~ Apr. 25, 2024	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 06, 2023	Apr. 24, 2024~ Apr. 25, 2024	Jul. 05, 2024	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 18, 2023	May 31, 2024~ Jun. 03, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	May 31, 2024~ Jun. 03, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	May 31, 2024~ Jun. 03, 2024	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 09, 2024	May 31, 2024~ Jun. 03, 2024	May 08, 2025	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2023	May 31, 2024~ Jun. 03, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 08, 2023	May 31, 2024~ Jun. 03, 2024	Jul. 07, 2024	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2023	May 31, 2024~ Jun. 03, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 OP-R	1943528	1GHz~18GHz	Oct. 18, 2023	May 31, 2024~ Jun. 03, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 07, 2023	May 31, 2024~ Jun. 03, 2024	Jul. 06, 2024	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Aug. 21, 2023	May 31, 2024~ Jun. 03, 2024	Aug. 20, 2024	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 18, 2023	May 31, 2024~ Jun. 03, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 31, 2024~ Jun. 03, 2024	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 31, 2024~ Jun. 03, 2024	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required



6 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±2.26 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.46 dB
Peak to Average Ratio	±0.46 dB
Frequency Stability	±0.4 Hz

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8 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))	3.1 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.9 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Smile Wang	Temperature :	22~23°C
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and ERP/EIRP

LTE Band 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				18700	18900	19100			
Frequency (MHz)				1860	1880	1900	L	M	H
20	QPSK	1	0	16.91	17.15	16.98	0.0301	0.0318	0.0305
20	QPSK	1	49	16.85	16.96	16.77	0.0296	0.0304	0.0291
20	QPSK	1	99	16.84	16.95	16.88	0.0296	0.0303	0.0299
20	QPSK	50	0	16.84	17.09	16.87	0.0296	0.0313	0.0298
20	QPSK	50	24	16.75	17.01	16.97	0.0290	0.0308	0.0305
20	QPSK	50	50	16.77	17.01	16.99	0.0291	0.0308	0.0306
20	QPSK	100	0	16.86	16.95	16.91	0.0297	0.0303	0.0301
20	16QAM	1	0	16.69	17.07	16.88	0.0286	0.0312	0.0299
20	64QAM	1	0	16.88	16.95	16.87	0.0299	0.0303	0.0298
Channel				18675	18900	19125	EIRP(W)		
Frequency (MHz)				1857.5	1880	1902.5	L	M	H
15	QPSK	1	0	16.90	17.12	16.83	0.0300	0.0316	0.0295
15	16QAM	1	0	16.72	17.02	16.96	0.0288	0.0308	0.0304
Channel				18650	18900	19150	EIRP(W)		
Frequency (MHz)				1855	1880	1905	L	M	H
10	QPSK	1	0	16.91	17.07	16.79	0.0301	0.0312	0.0292
10	16QAM	1	0	16.71	17.04	16.88	0.0287	0.0310	0.0299
Channel				18625	18900	19175	EIRP(W)		
Frequency (MHz)				1852.5	1880	1907.5	L	M	H
5	QPSK	1	0	16.72	17.03	16.85	0.0288	0.0309	0.0296
5	16QAM	1	0	16.59	16.99	16.79	0.0279	0.0306	0.0292
Channel				18615	18900	19185	EIRP(W)		
Frequency (MHz)				1851.5	1880	1908.5	L	M	H
3	QPSK	1	0	16.70	16.96	16.79	0.0286	0.0304	0.0292
3	16QAM	1	0	16.69	17.08	16.76	0.0286	0.0313	0.0290
Channel				18607	18900	19193	EIRP(W)		
Frequency (MHz)				1850.7	1880	1909.3	L	M	H
1.4	QPSK	1	0	16.73	17.05	16.85	0.0288	0.0310	0.0296
1.4	16QAM	1	0	16.69	16.88	16.87	0.0286	0.0299	0.0298



LTE Band 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745	L	M	H
20	QPSK	1	0	16.82	17.08	16.88	0.0292	0.0310	0.0296
20	QPSK	1	49	16.83	17.01	16.79	0.0292	0.0305	0.0290
20	QPSK	1	99	16.65	17.01	16.77	0.0281	0.0305	0.0288
20	QPSK	50	0	16.61	16.95	16.68	0.0278	0.0301	0.0282
20	QPSK	50	24	16.81	16.92	16.87	0.0291	0.0299	0.0295
20	QPSK	50	50	16.74	16.88	16.66	0.0286	0.0296	0.0281
20	QPSK	100	0	16.80	17.02	16.88	0.0290	0.0305	0.0296
20	16QAM	1	0	16.63	17.00	16.82	0.0279	0.0304	0.0292
20	64QAM	1	0	16.83	16.99	16.72	0.0292	0.0303	0.0285
Channel				20025	20175	20325	EIRP(W)		
Frequency (MHz)				1717.5	1732.5	1747.5	L	M	H
15	QPSK	1	0	16.73	16.86	16.69	0.0286	0.0294	0.0283
15	16QAM	1	0	16.54	16.95	16.65	0.0274	0.0301	0.0281
Channel				20000	20175	20350	EIRP(W)		
Frequency (MHz)				1715	1732.5	1750	L	M	H
10	QPSK	1	0	16.78	16.89	16.71	0.0289	0.0296	0.0284
10	16QAM	1	0	16.65	16.87	16.75	0.0281	0.0295	0.0287
Channel				19975	20175	20375	EIRP(W)		
Frequency (MHz)				1712.5	1732.5	1752.5	L	M	H
5	QPSK	1	0	16.81	17.06	16.85	0.0291	0.0308	0.0294
5	16QAM	1	0	16.73	17.04	16.72	0.0286	0.0307	0.0285
Channel				19965	20175	20385	EIRP(W)		
Frequency (MHz)				1711.5	1732.5	1753.5	L	M	H
3	QPSK	1	0	16.70	16.95	16.74	0.0284	0.0301	0.0286
3	16QAM	1	0	16.57	16.87	16.78	0.0275	0.0295	0.0289
Channel				19950	20175	20393	EIRP(W)		
Frequency (MHz)				1710	1732.5	1754.3	L	M	H
1.4	QPSK	1	0	16.72	16.98	16.79	0.0285	0.0303	0.0290
1.4	16QAM	1	0	16.79	16.93	16.79	0.0290	0.0299	0.0290



LTE Band 12

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711	L	M	H
10	QPSK	1	0	23.15	23.16	23.12	0.0650	0.0652	0.0646
10	QPSK	1	25	22.96	23.01	23.04	0.0622	0.0630	0.0634
10	QPSK	1	49	23.07	23.03	22.92	0.0638	0.0632	0.0617
10	QPSK	25	0	22.10	22.17	22.06	0.0511	0.0519	0.0506
10	QPSK	25	12	21.89	22.00	21.86	0.0486	0.0499	0.0483
10	QPSK	25	25	22.01	22.16	21.85	0.0500	0.0518	0.0482
10	QPSK	50	0	21.93	22.01	21.96	0.0491	0.0500	0.0494
10	16QAM	1	0	22.42	22.41	22.44	0.0550	0.0548	0.0552
10	64QAM	1	0	21.36	21.26	21.24	0.0431	0.0421	0.0419
Channel				23035	23095	23155	ERP(W)		
Frequency (MHz)				701.5	707.5	713.5	L	M	H
5	QPSK	1	0	22.94	23.10	22.91	0.0619	0.0643	0.0615
5	16QAM	1	0	22.36	22.22	22.33	0.0542	0.0525	0.0538
Channel				23025	23095	23165	ERP(W)		
Frequency (MHz)				700.5	707.5	714.5	L	M	H
3	QPSK	1	0	23.10	22.95	22.94	0.0643	0.0621	0.0619
3	16QAM	1	0	22.41	22.21	22.29	0.0548	0.0524	0.0533
Channel				23017	23095	23173	ERP(W)		
Frequency (MHz)				699.7	707.5	715.3	L	M	H
1.4	QPSK	1	0	23.10	22.96	22.99	0.0643	0.0622	0.0627
1.4	16QAM	1	0	22.27	22.21	22.31	0.0531	0.0524	0.0536



LTE Band 41

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				39750	40620	41490	EIRP(W)		
Frequency (MHz)				2506	2593	2680	L	M	H
20	QPSK	1	0	15.27	15.34	15.37	0.0182	0.0185	0.0186
20	QPSK	1	49	15.28	15.17	15.26	0.0182	0.0178	0.0182
20	QPSK	1	99	15.20	15.25	15.33	0.0179	0.0181	0.0185
20	QPSK	50	0	15.29	15.21	15.33	0.0183	0.0179	0.0185
20	QPSK	50	24	15.17	15.15	15.28	0.0178	0.0177	0.0182
20	QPSK	50	50	15.27	15.21	15.31	0.0182	0.0179	0.0184
20	QPSK	100	0	15.18	15.17	15.26	0.0178	0.0178	0.0182
20	16QAM	1	0	15.14	15.35	15.23	0.0177	0.0185	0.0180
20	64QAM	1	0	15.29	15.13	15.21	0.0183	0.0176	0.0179
Channel				39725	40620	41515	EIRP(W)		
Frequency (MHz)				2503.5	2593	2682.5	L	M	H
15	QPSK	1	0	15.12	15.20	15.30	0.0176	0.0179	0.0183
15	16QAM	1	0	15.19	15.00	15.26	0.0179	0.0171	0.0182
Channel				39700	40620	41540	EIRP(W)		
Frequency (MHz)				2501	2593	2685	L	M	H
10	QPSK	1	0	15.22	15.23	15.18	0.0180	0.0180	0.0178
10	16QAM	1	0	15.19	15.01	15.04	0.0179	0.0171	0.0173
Channel				39675	40620	41565	EIRP(W)		
Frequency (MHz)				2498.5	2593	2687.5	L	M	H
5	QPSK	1	0	15.20	15.27	15.22	0.0179	0.0182	0.0180
5	16QAM	1	0	14.99	15.26	15.18	0.0171	0.0182	0.0178



LTE Band 2

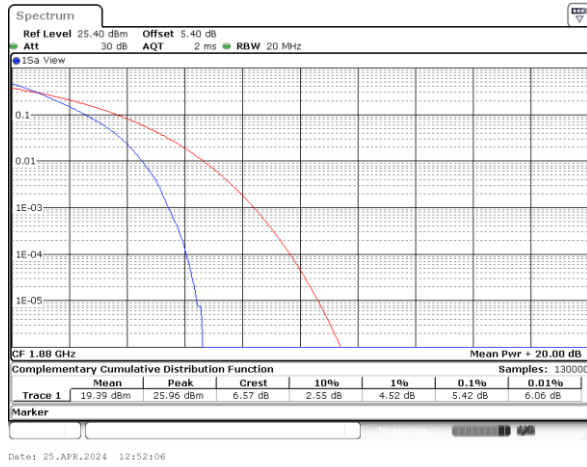
Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.42	6.35	6.64	PASS

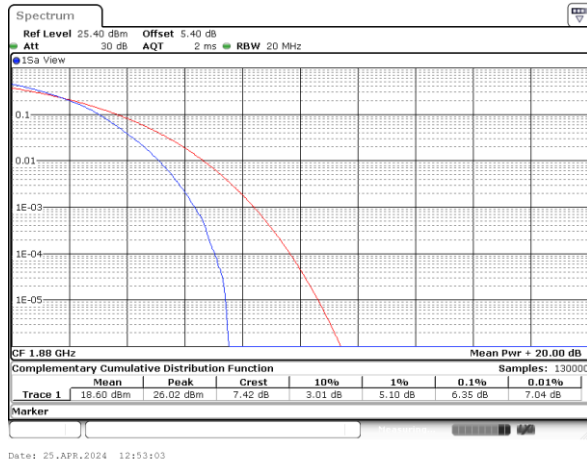


LTE Band 66 / 20MHz

Middle Channel / Full RB/ QPSK



Middle Channel / Full RB/ 16QAM



Middle Channel / Full RB/ 64QAM





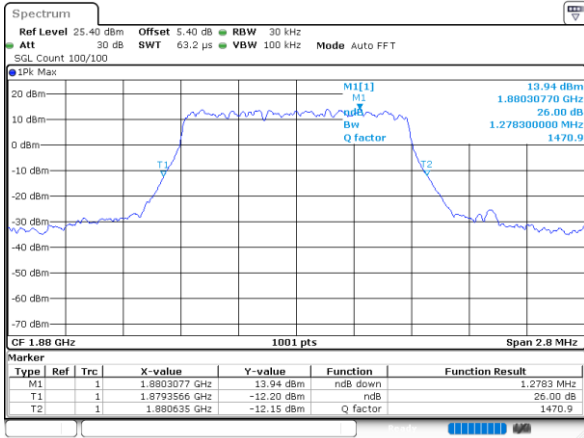
26dB Bandwidth

Mode	LTE Band 2 : 26dB BW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.28	1.29
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.95	2.98
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.79	4.84
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.91	9.69
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.36	14.33
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.62	18.94



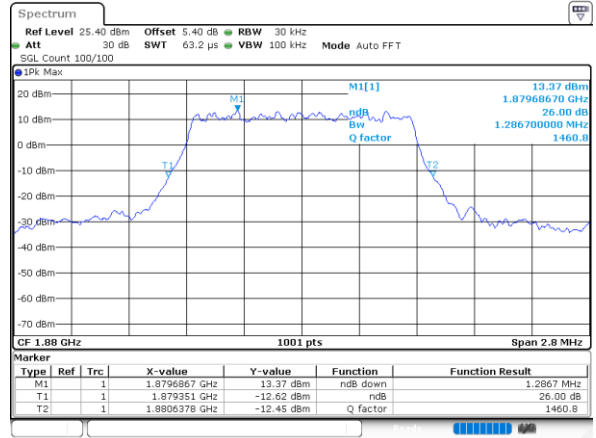
LTE Band 2

Middle Channel / 1.4MHz / QPSK



Date: 25.APR.2024 13:01:59

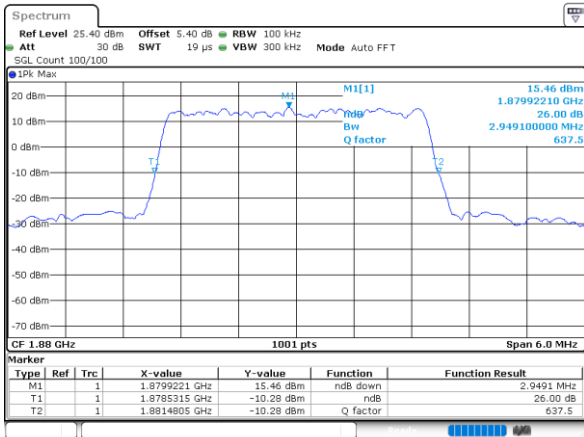
Middle Channel / 1.4MHz / 16QAM



Date: 25.APR.2024 13:02:53

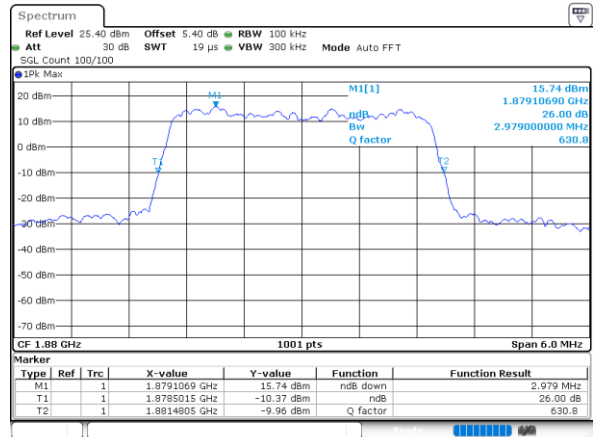
LTE Band 2

Middle Channel / 3MHz / QPSK



Date: 25.APR.2024 13:04:03

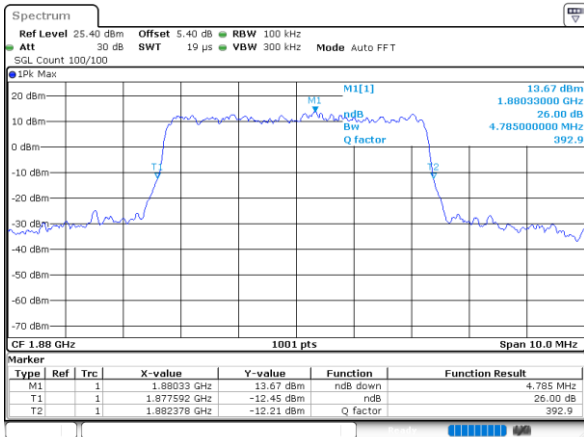
Middle Channel / 3MHz / 16QAM



Date: 25.APR.2024 13:04:58

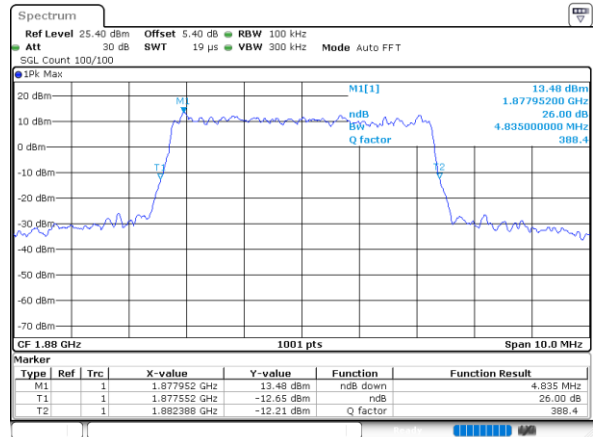
LTE Band 2

Middle Channel / 5MHz / QPSK



Date: 25.APR.2024 13:08:17

Middle Channel / 5MHz / 16QAM

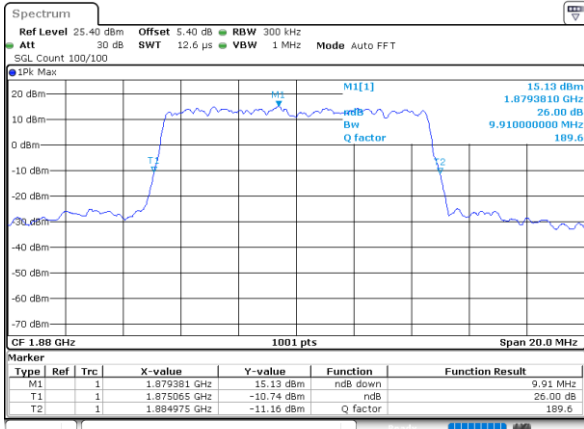


Date: 25.APR.2024 13:09:11



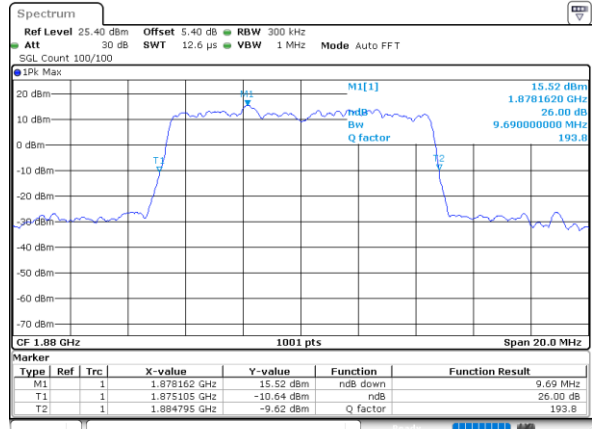
LTE Band 2

Middle Channel / 10MHz / QPSK



Date: 25_APR_2024 13:16:16

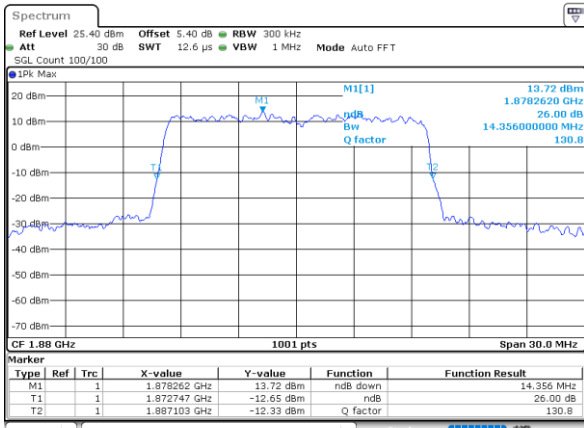
Middle Channel / 10MHz / 16QAM



Date: 25_APR_2024 13:17:11

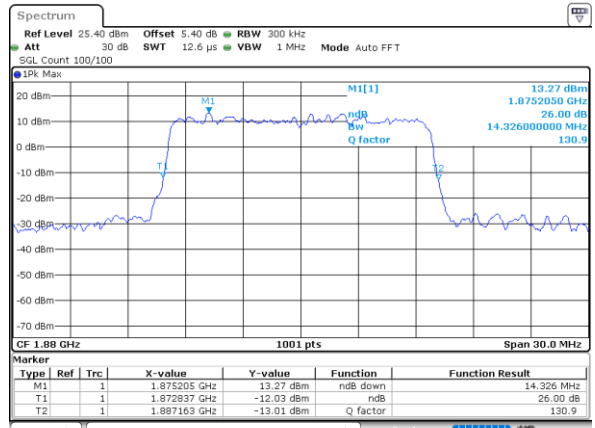
LTE Band 2

Middle Channel / 15MHz / QPSK



Date: 25_APR_2024 13:18:20

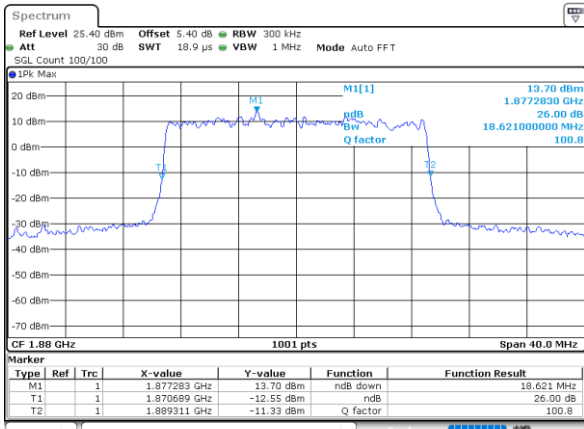
Middle Channel / 15MHz / 16QAM



Date: 25_APR_2024 13:19:15

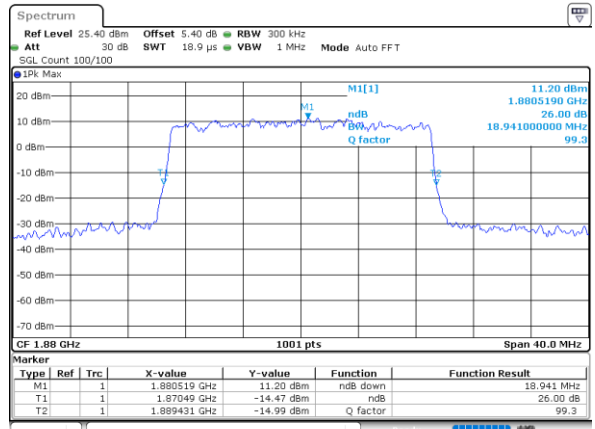
LTE Band 2

Middle Channel / 20MHz / QPSK



Date: 25_APR_2024 12:51:35

Middle Channel / 20MHz / 16QAM



Date: 25_APR_2024 12:52:32



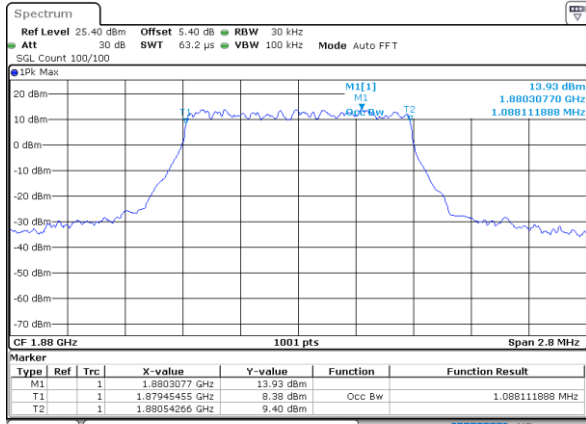
Occupied Bandwidth

Mode	LTE Band 2 : 99%OBW(MHz)	
BW	1.4MHz	
Mod.	QPSK	16QAM
Middle CH	1.09	1.10
BW	3MHz	
Mod.	QPSK	16QAM
Middle CH	2.70	2.70
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.48	4.49
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	8.99	9.01
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.49	13.43
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.78	17.82



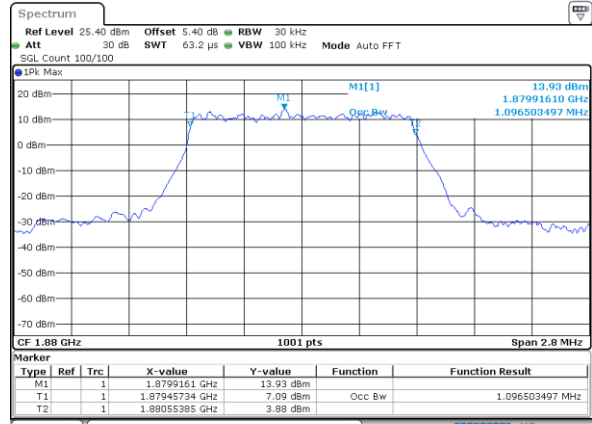
LTE Band 2

Middle Channel / 1.4MHz / QPSK



Date: 25.APR.2024 13:02:13

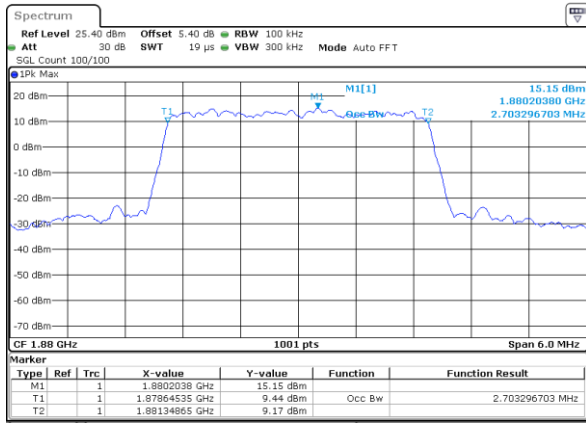
Middle Channel / 1.4MHz / 16QAM



Date: 25.APR.2024 13:02:139

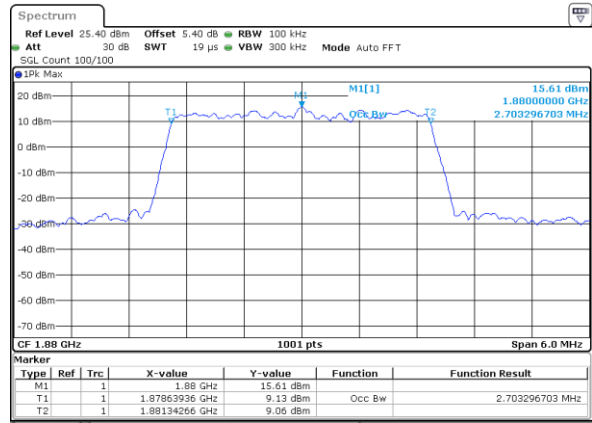
LTE Band 2

Middle Channel / 3MHz / QPSK



Date: 25.APR.2024 13:04:18

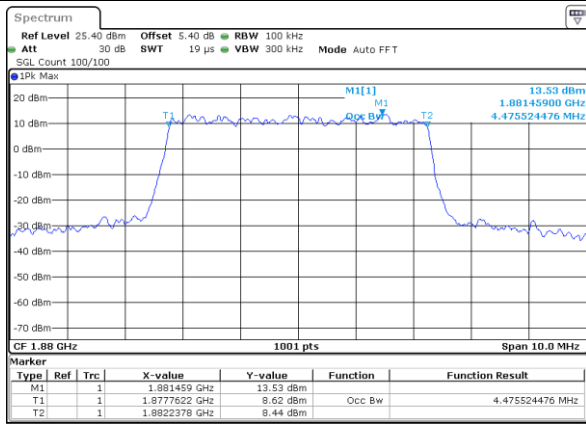
Middle Channel / 3MHz / 16QAM



Date: 25.APR.2024 13:04:44

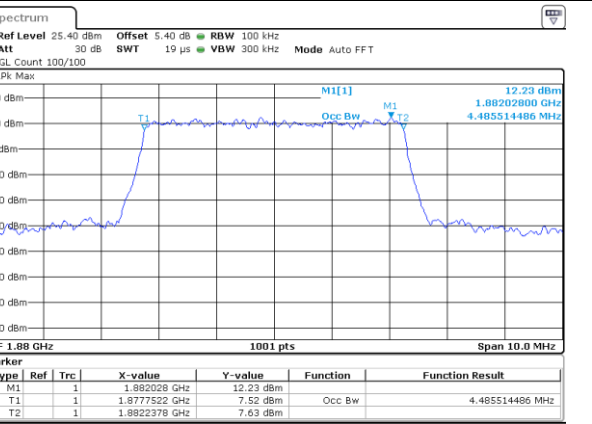
LTE Band 2

Middle Channel / 5MHz / QPSK



Date: 25.APR.2024 13:08:33

Middle Channel / 5MHz / 16QAM

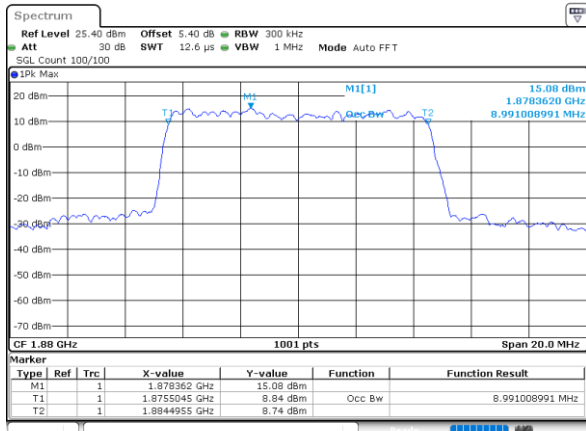


Date: 25.APR.2024 13:08:57



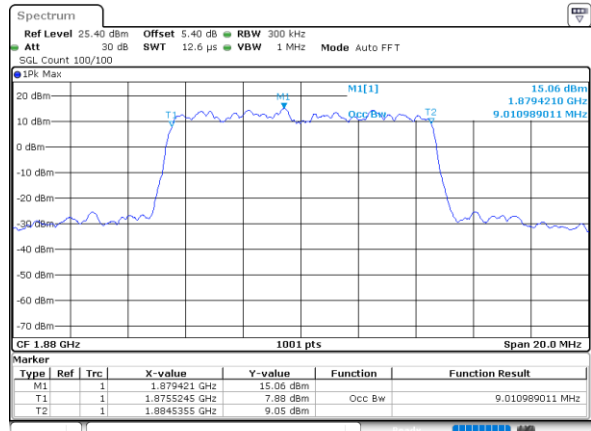
LTE Band 2

Middle Channel / 10MHz / QPSK



Date: 25.APR.2024 13:16:30

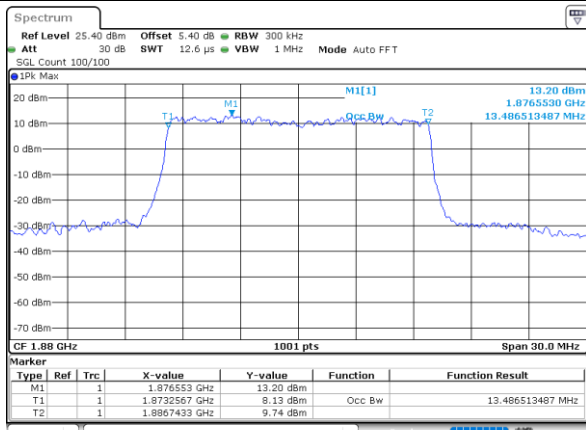
Middle Channel / 10MHz / 16QAM



Date: 25.APR.2024 13:16:56

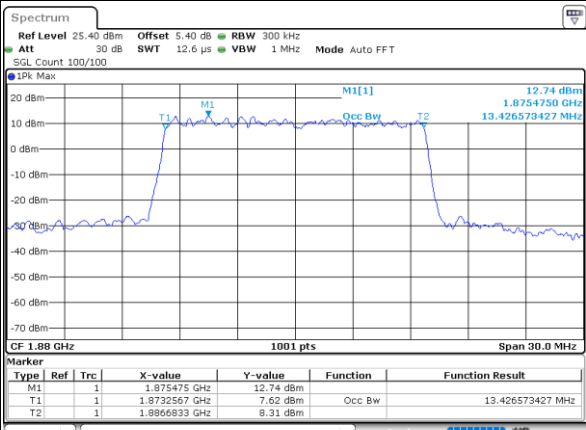
LTE Band 2

Middle Channel / 15MHz / QPSK



Date: 25.APR.2024 13:18:35

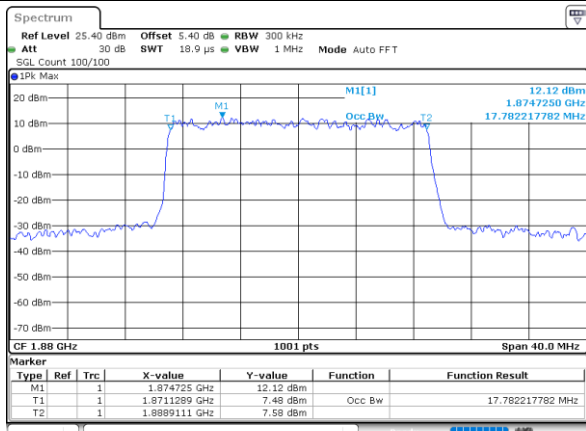
Middle Channel / 15MHz / 16QAM



Date: 25.APR.2024 13:19:01

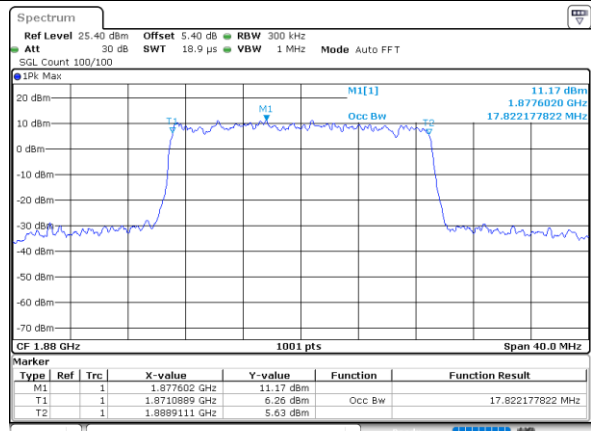
LTE Band 2

Middle Channel / 20MHz / QPSK



Date: 25.APR.2024 12:51:50

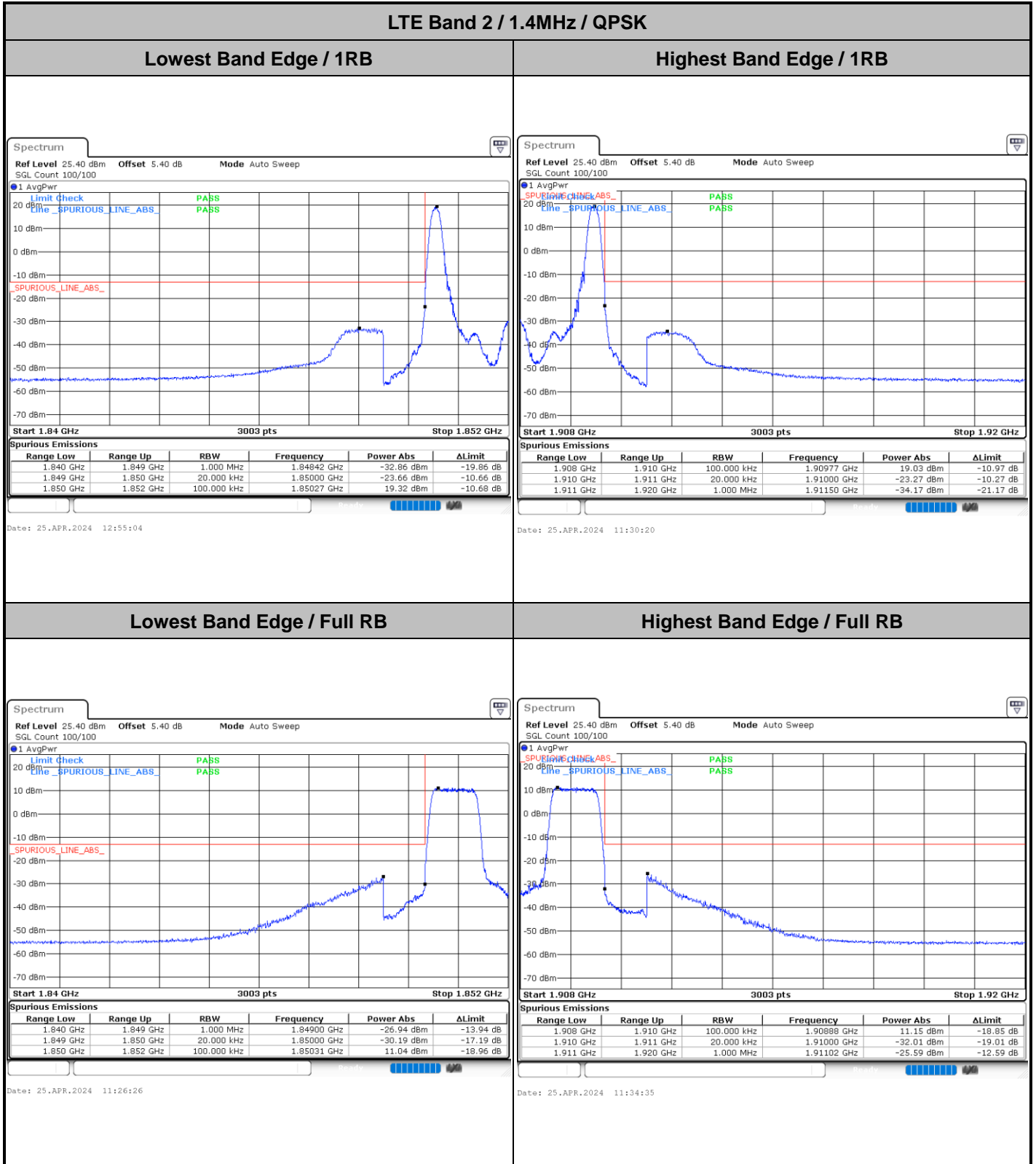
Middle Channel / 20MHz / 16QAM



Date: 25.APR.2024 12:52:47



Conducted Band Edge

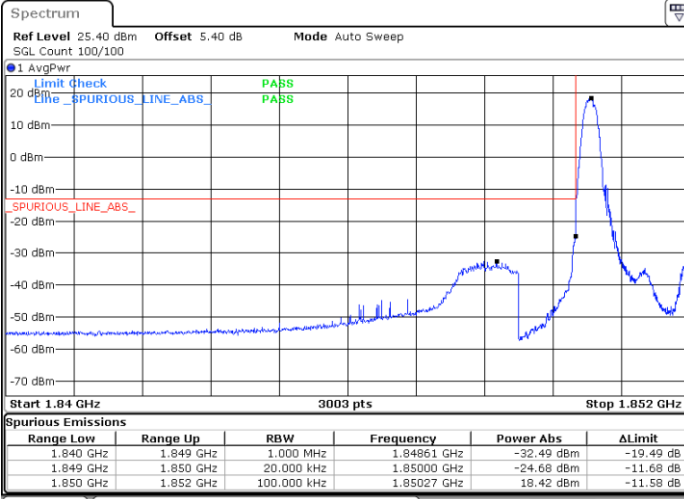




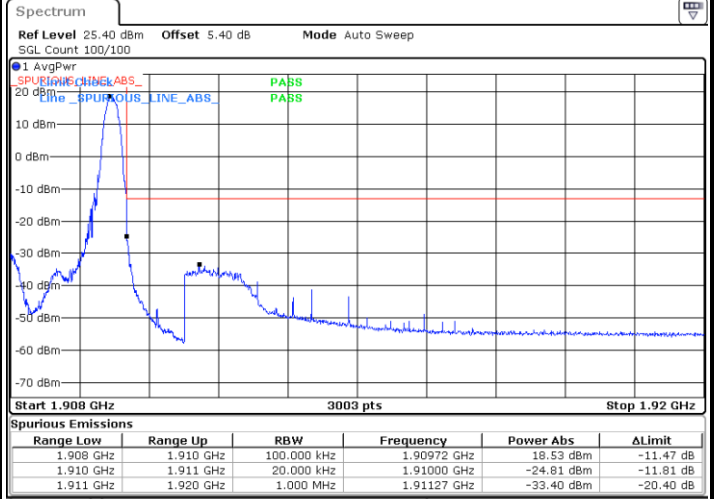
LTE Band 2 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



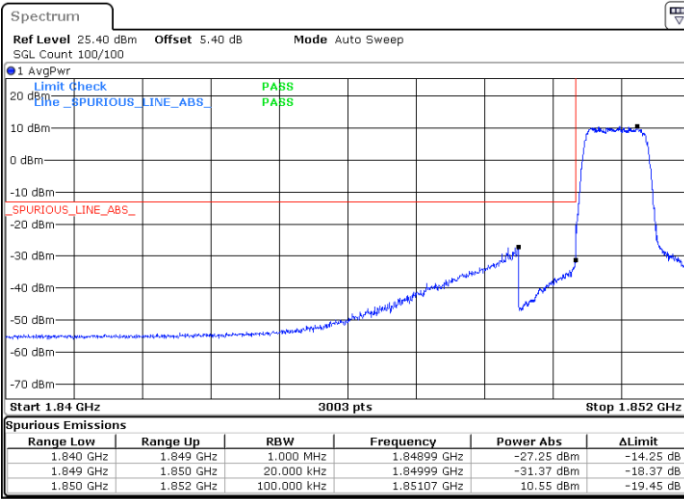
Date: 25.APR.2024 11:23:02



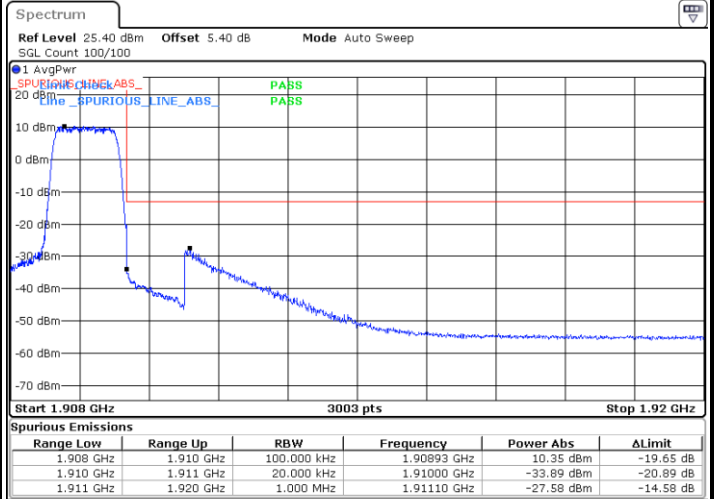
Date: 25.APR.2024 11:31:11

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.APR.2024 11:23:35

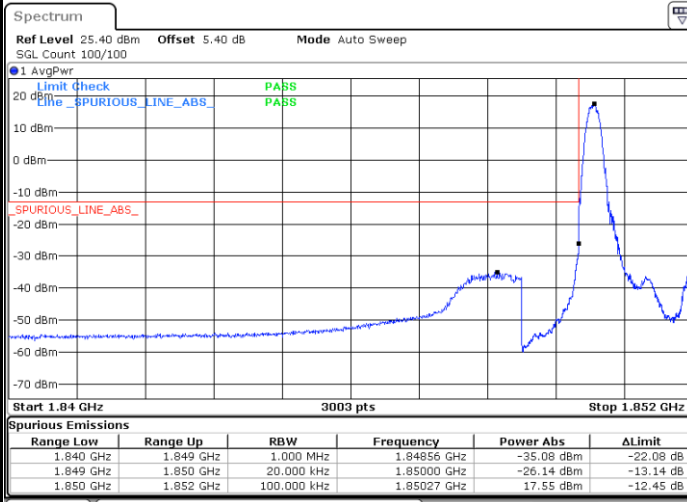


Date: 25.APR.2024 11:33:44



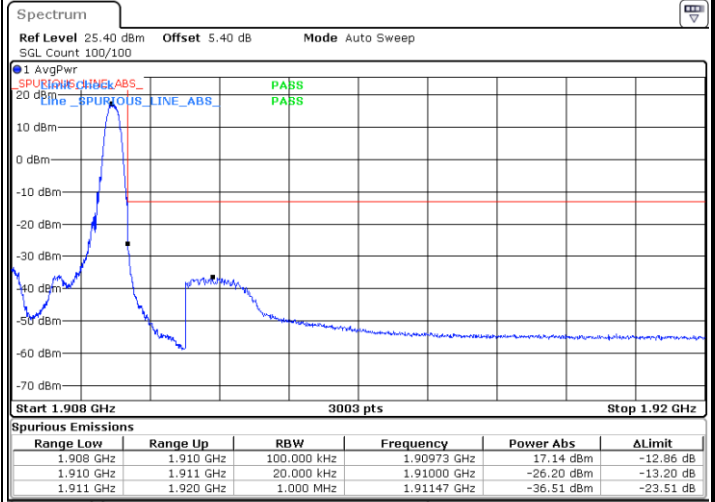
LTE Band 2 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



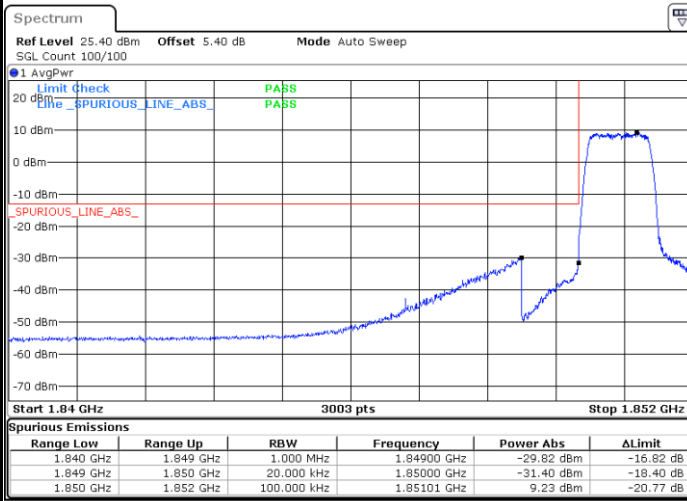
Date: 25.APR.2024 11:23:53

Highest Band Edge / 1 RB



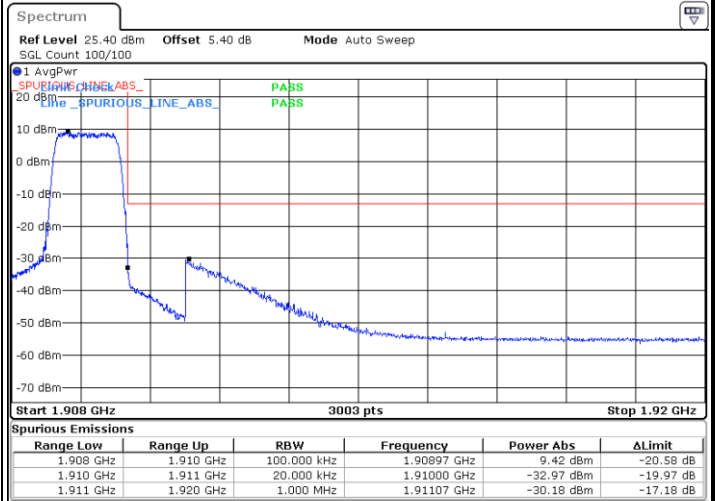
Date: 25.APR.2024 11:32:02

Lowest Band Edge / Full RB



Date: 25.APR.2024 11:24:44

Highest Band Edge / Full RB

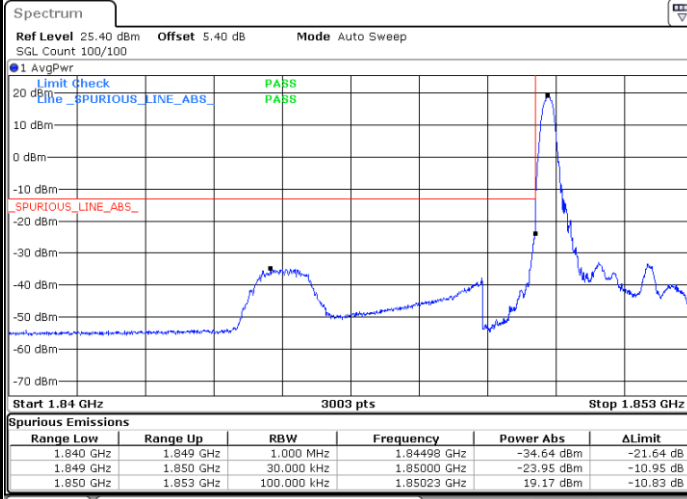


Date: 25.APR.2024 11:32:53



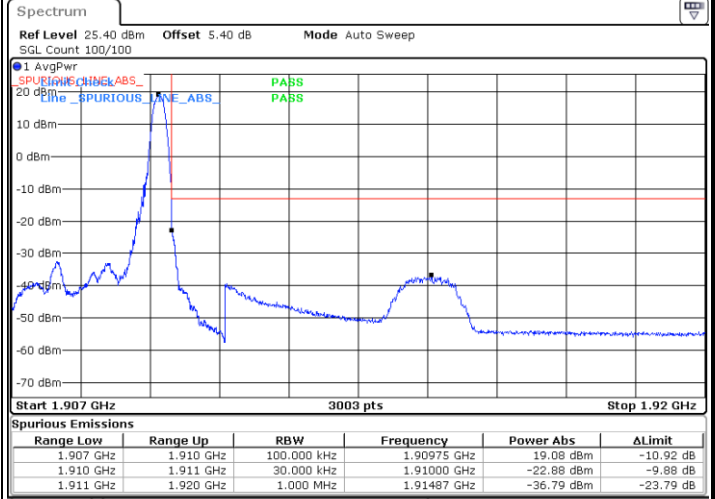
LTE Band 2 / 3MHz / QPSK

Lowest Band Edge / 1RB



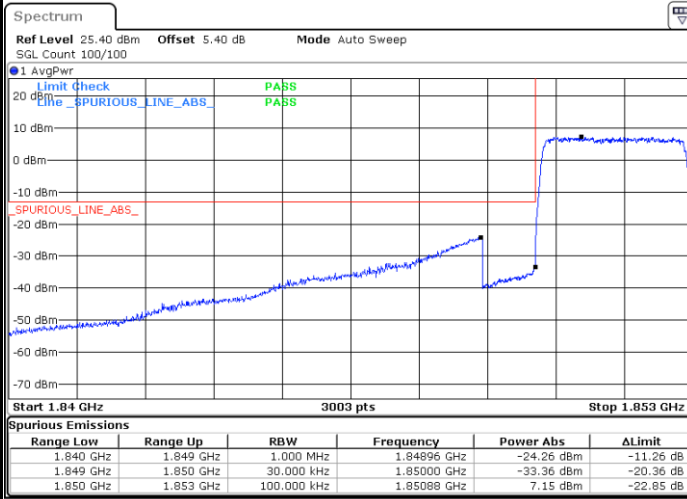
Date: 25.APR.2024 11:37:29

Highest Band Edge / 1 RB



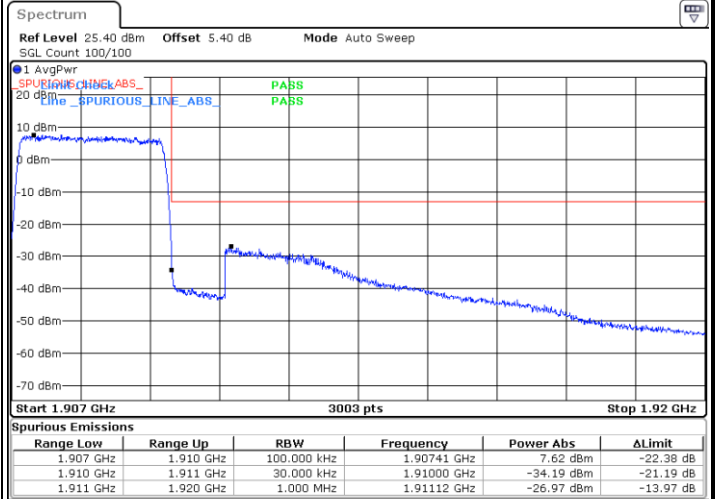
Date: 25.APR.2024 11:45:38

Lowest Band Edge / Full RB



Date: 25.APR.2024 11:41:45

Highest Band Edge / Full RB

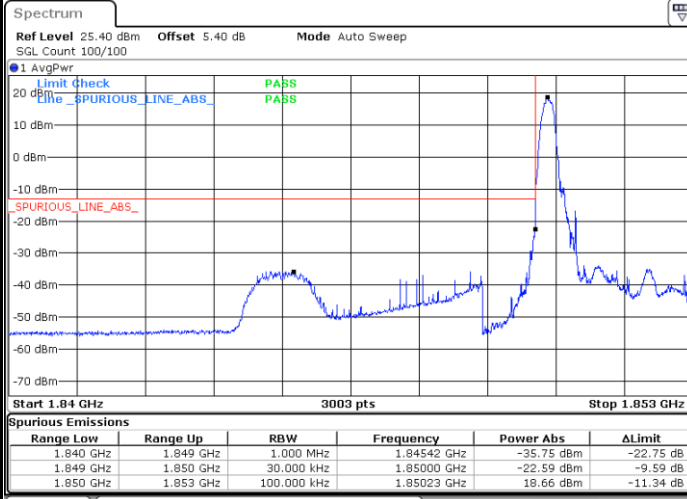


Date: 25.APR.2024 11:49:54



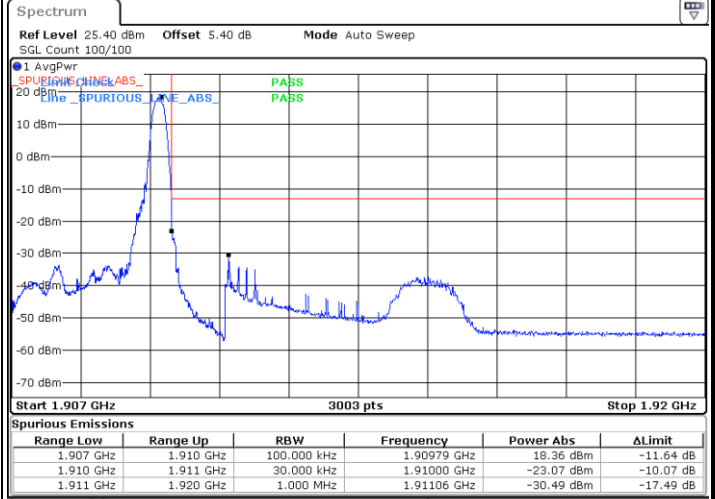
LTE Band 2 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



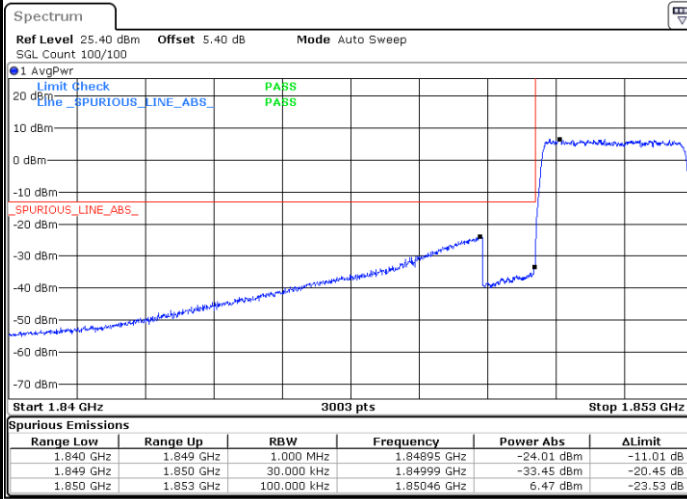
Date: 25.APR.2024 11:38:21

Highest Band Edge / 1 RB



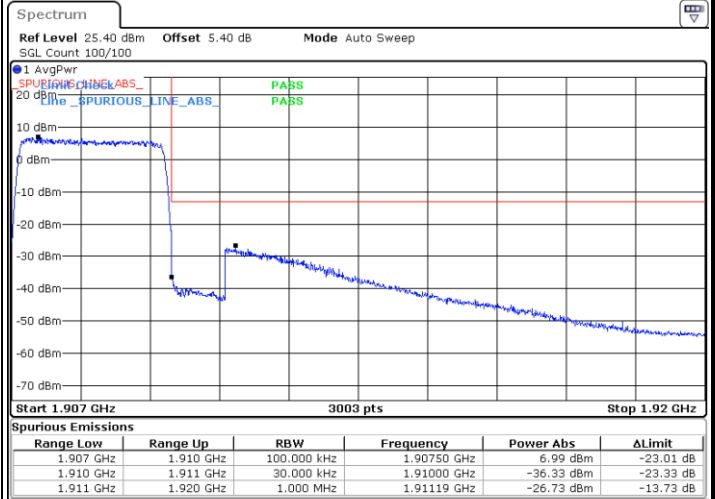
Date: 25.APR.2024 11:46:29

Lowest Band Edge / Full RB



Date: 25.APR.2024 11:40:54

Highest Band Edge / Full RB

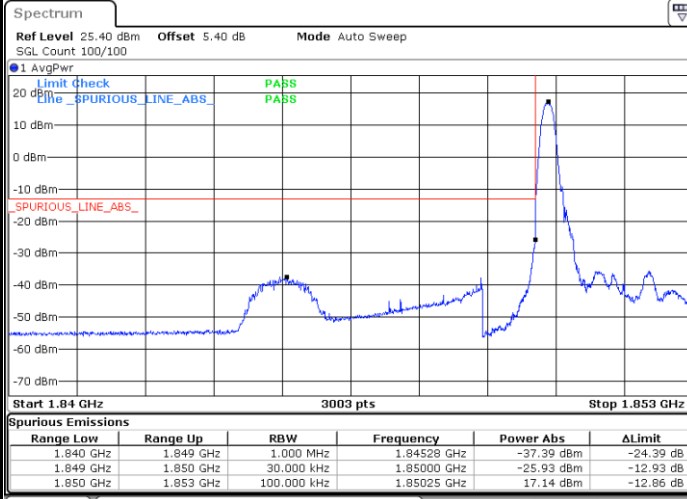


Date: 25.APR.2024 11:49:03



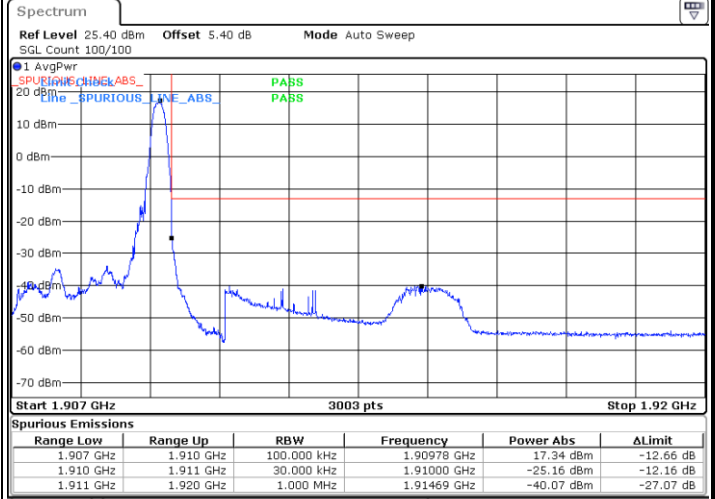
LTE Band 2 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



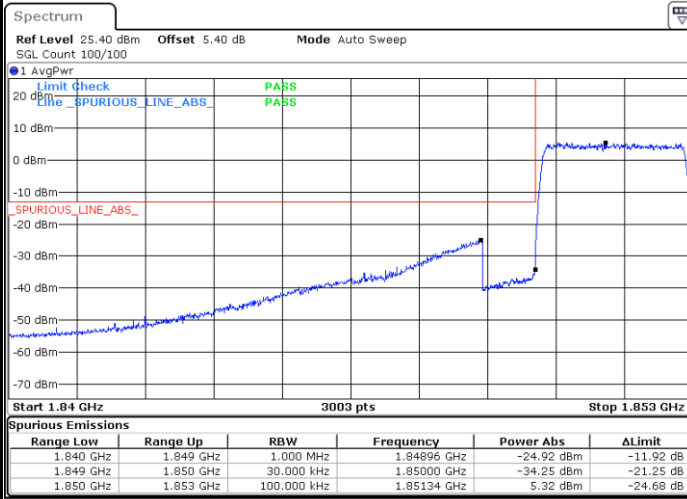
Date: 25.APR.2024 11:39:12

Highest Band Edge / 1 RB



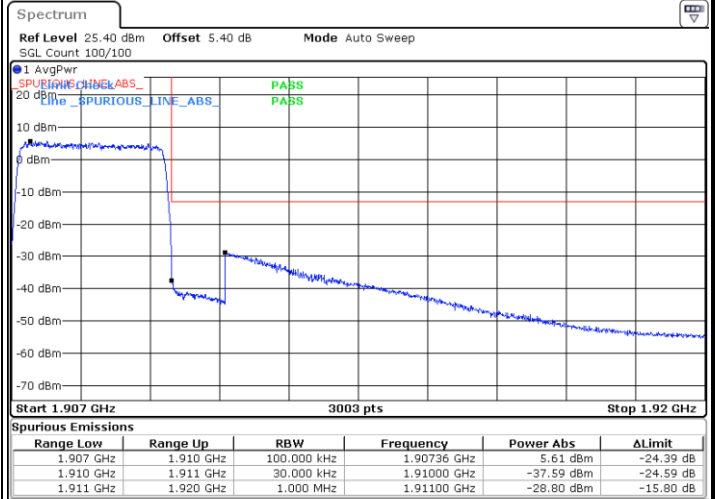
Date: 25.APR.2024 11:47:21

Lowest Band Edge / Full RB



Date: 25.APR.2024 11:40:03

Highest Band Edge / Full RB



Date: 25.APR.2024 11:48:12



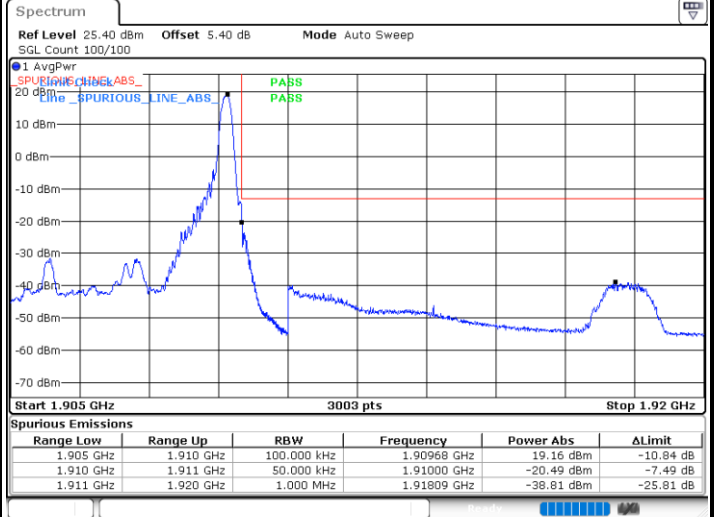
LTE Band 2 / 5MHz / QPSK

Lowest Band Edge / 1 RB



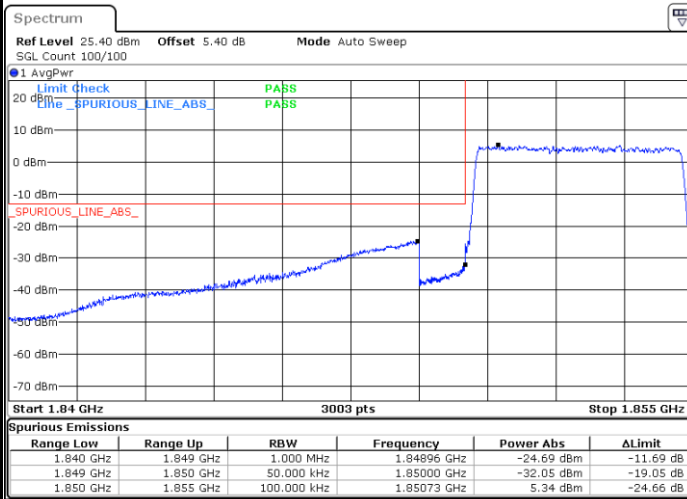
Date: 25.APR.2024 11:52:48

Highest Band Edge / 1 RB



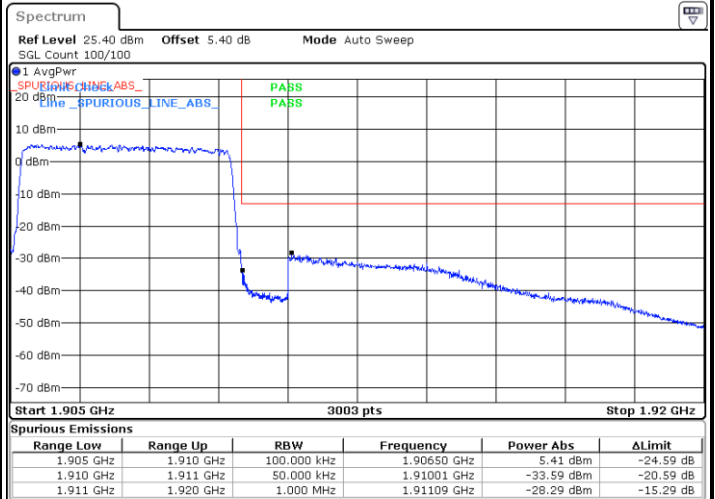
Date: 25.APR.2024 12:00:56

Lowest Band Edge / Full RB



Date: 25.APR.2024 11:57:03

Highest Band Edge / Full RB

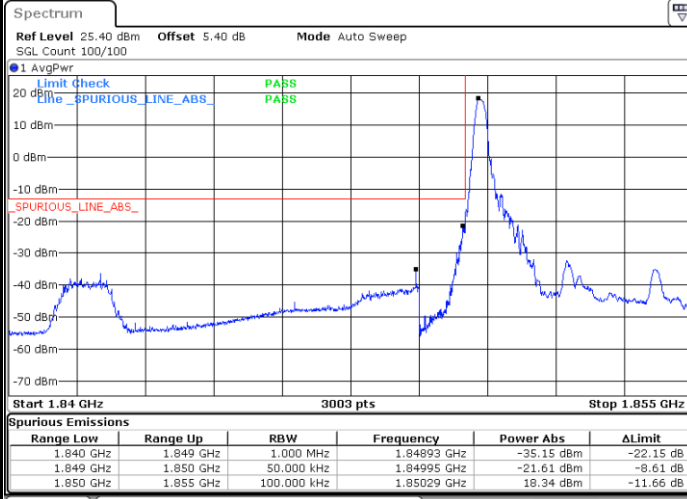


Date: 25.APR.2024 12:05:12



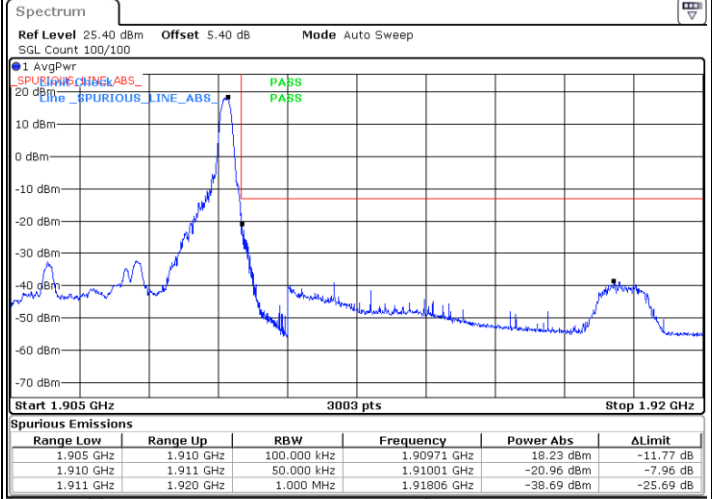
LTE Band 2 / 5MHz / 16QAM

Lowest Band Edge / 1RB



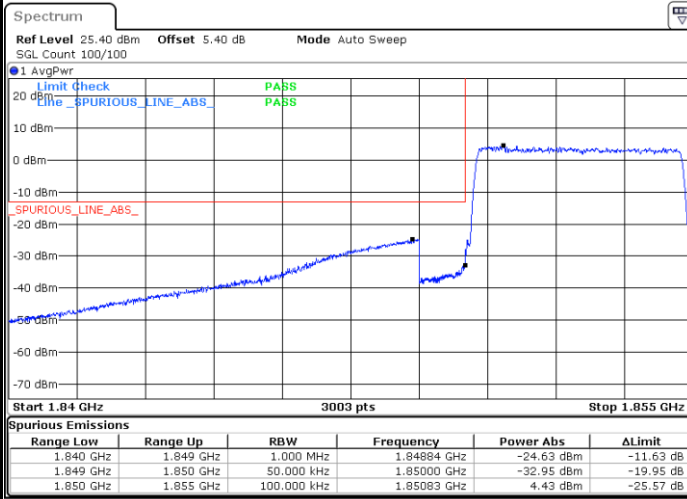
Date: 25.APR.2024 11:53:39

Highest Band Edge / 1 RB



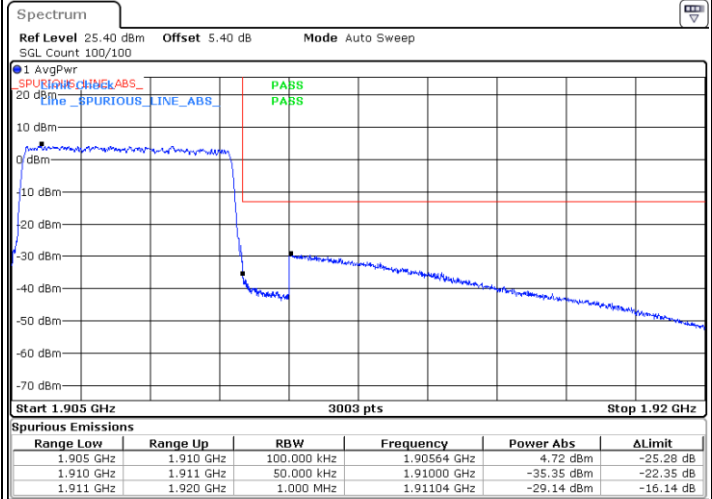
Date: 25.APR.2024 12:01:47

Lowest Band Edge / Full RB



Date: 25.APR.2024 11:56:12

Highest Band Edge / Full RB

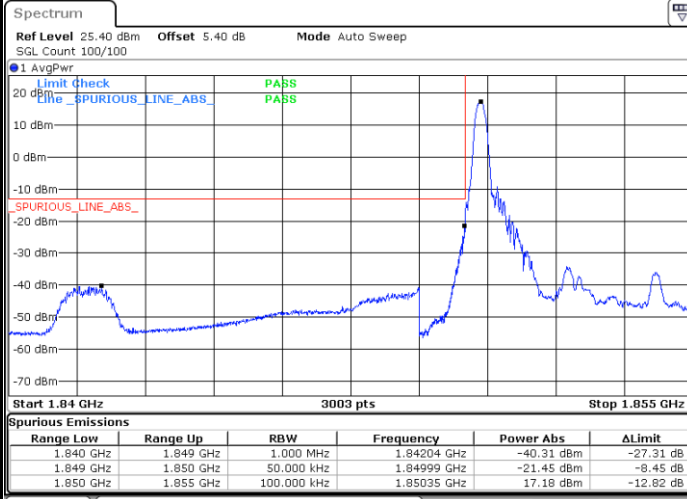


Date: 25.APR.2024 12:04:21



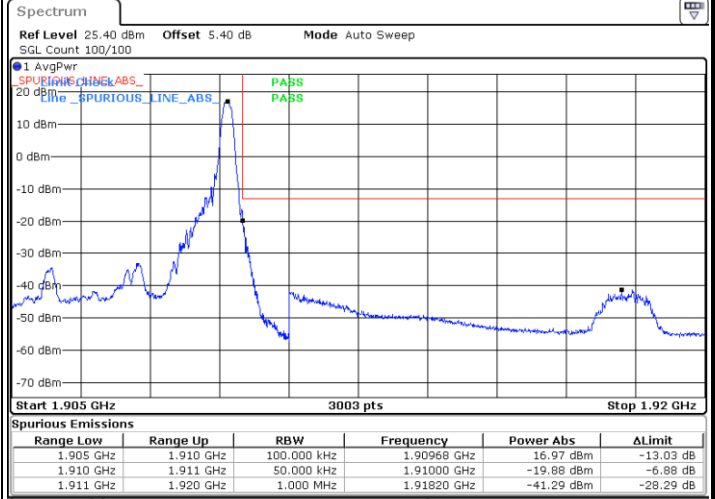
LTE Band 2 / 5MHz / 64QAM

Lowest Band Edge / 1RB



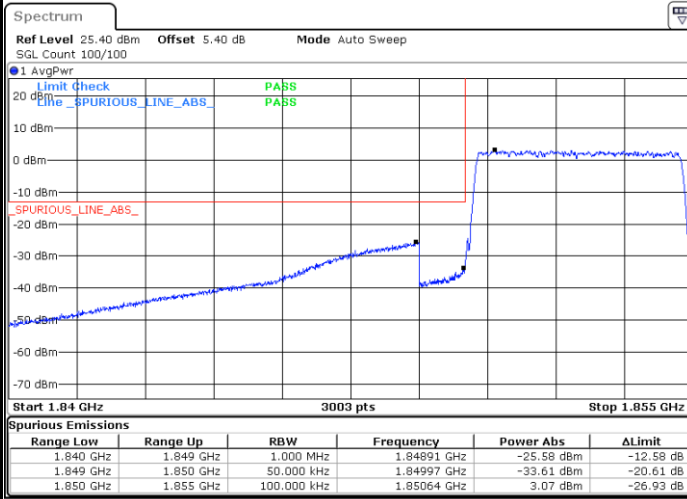
Date: 25.APR.2024 11:54:30

Highest Band Edge / 1 RB



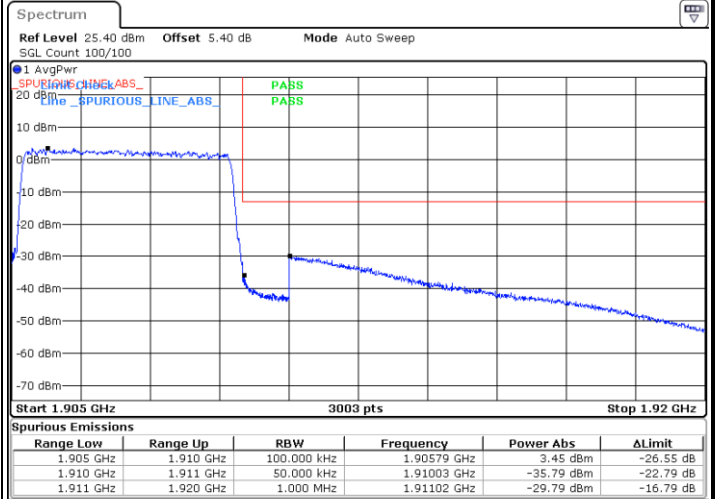
Date: 25.APR.2024 12:02:38

Lowest Band Edge / Full RB



Date: 25.APR.2024 11:55:21

Highest Band Edge / Full RB

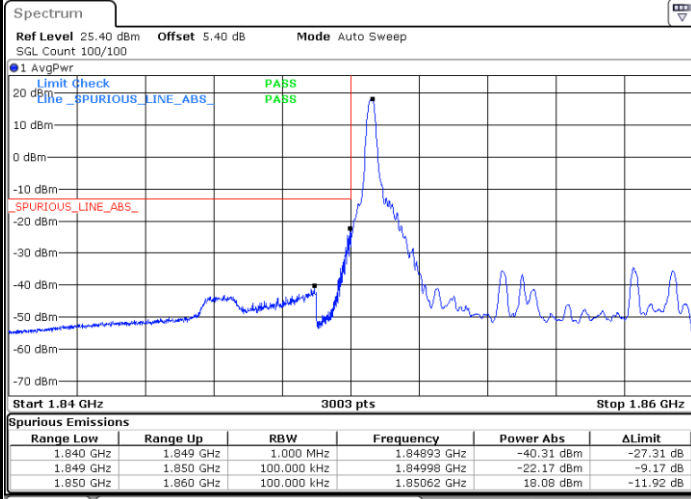


Date: 25.APR.2024 12:03:30



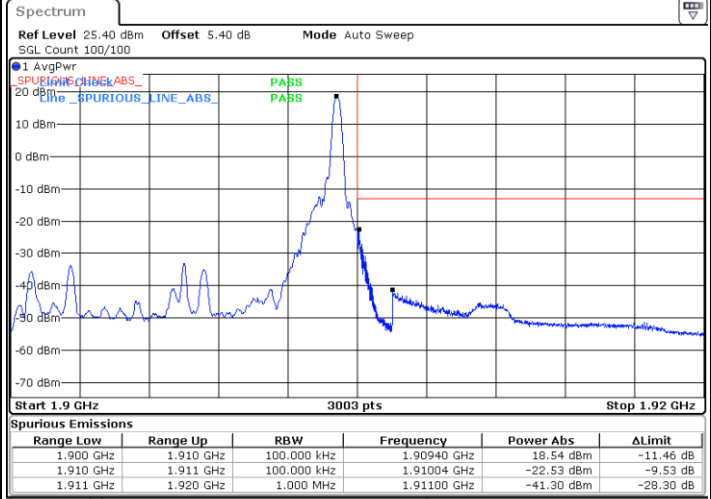
LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / 1 RB



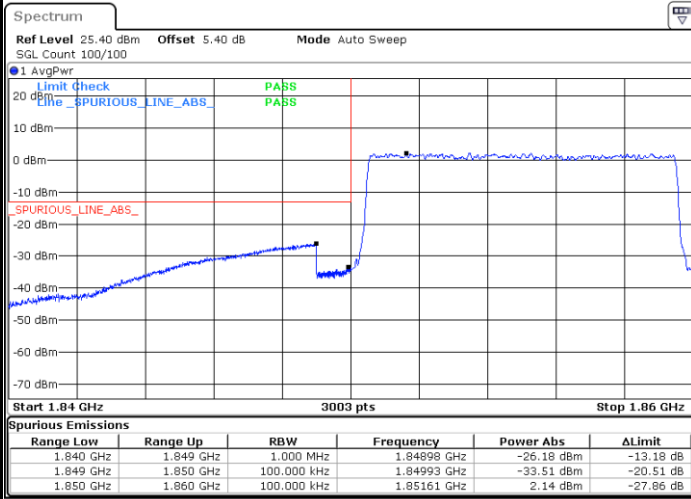
Date: 25.APR.2024 12:08:06

Highest Band Edge / 1 RB



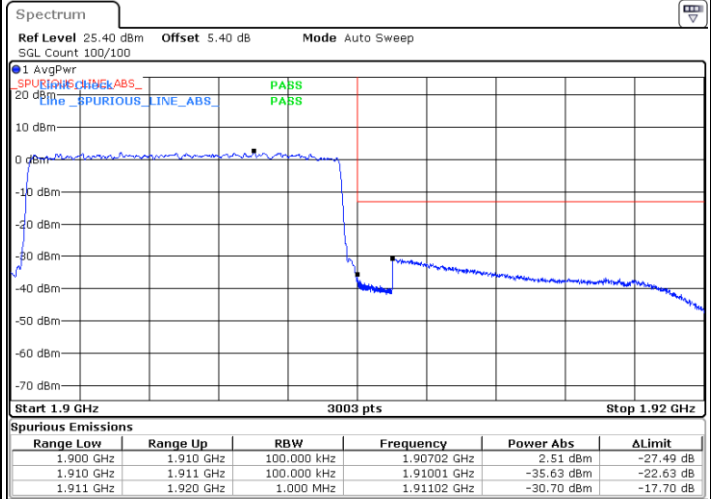
Date: 25.APR.2024 12:16:15

Lowest Band Edge / Full RB



Date: 25.APR.2024 12:12:21

Highest Band Edge / Full RB

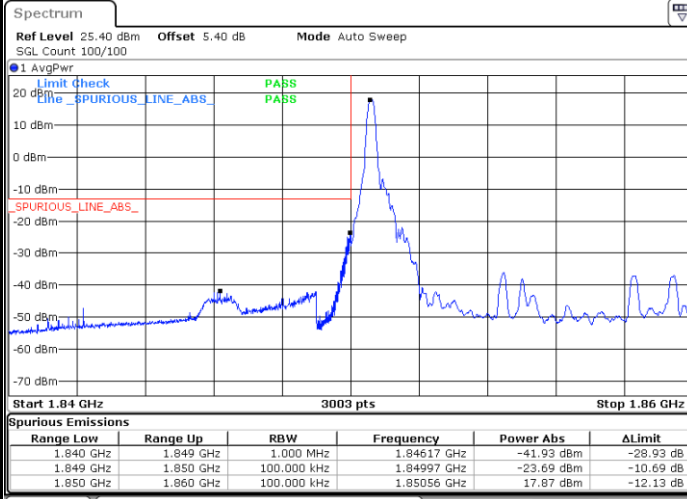


Date: 25.APR.2024 12:20:30



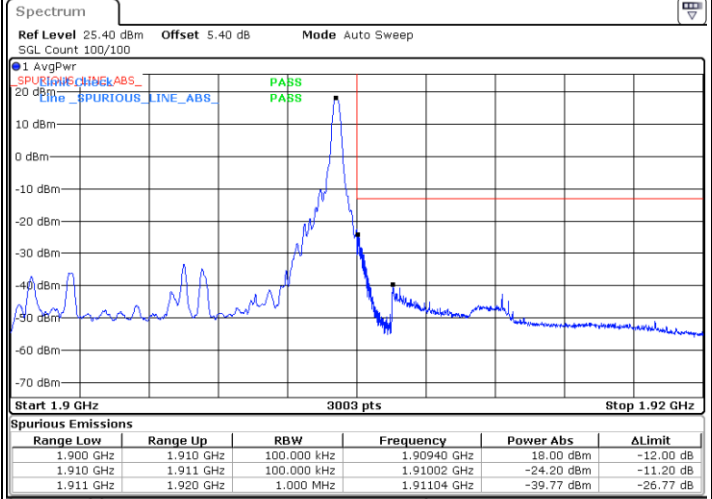
LTE Band 2 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



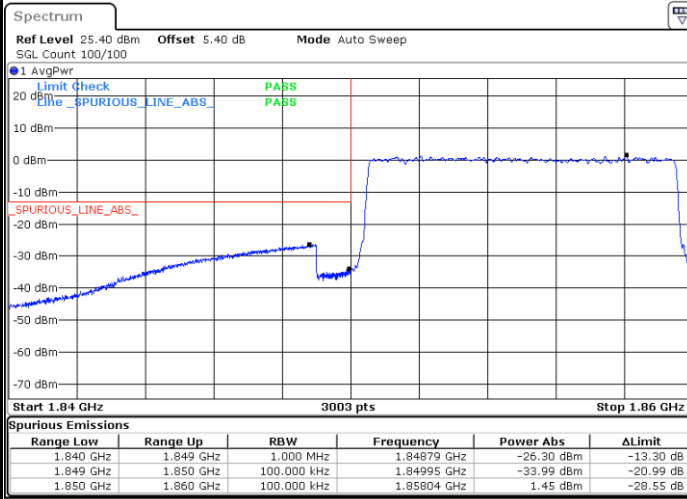
Date: 25.APR.2024 12:08:57

Highest Band Edge / 1 RB



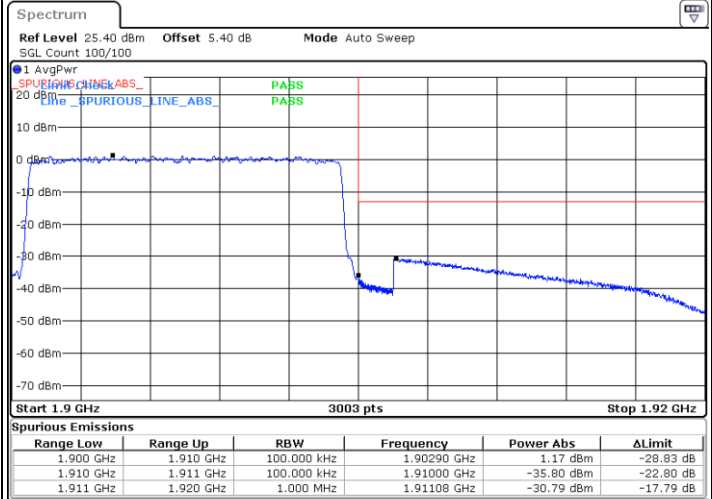
Date: 25.APR.2024 12:17:06

Lowest Band Edge / Full RB



Date: 25.APR.2024 12:11:30

Highest Band Edge / Full RB

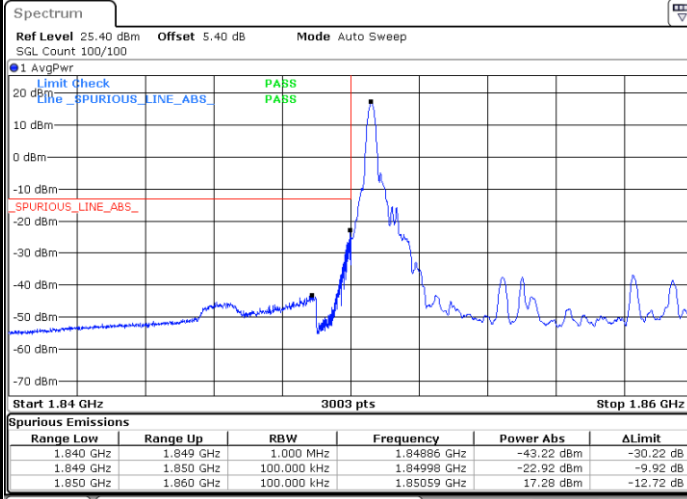


Date: 25.APR.2024 12:19:39



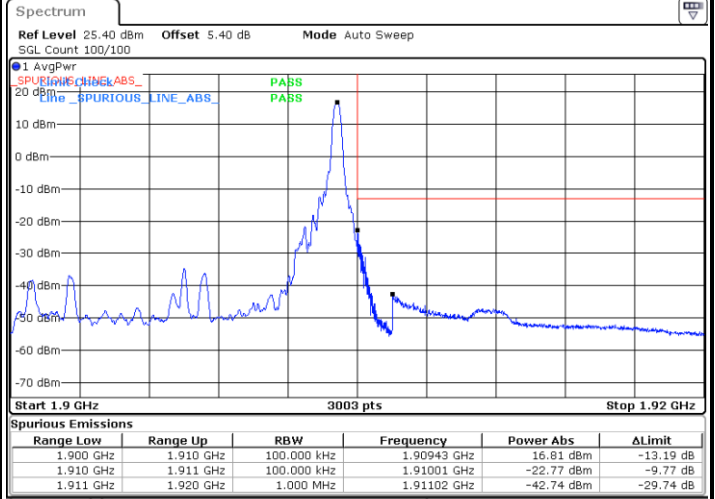
LTE Band 2 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



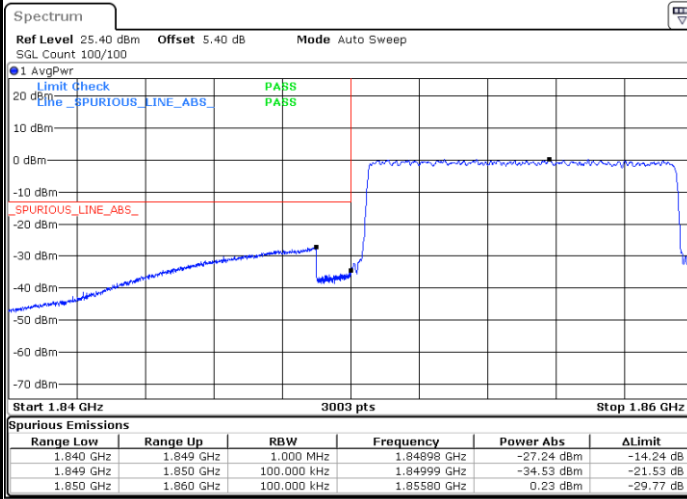
Date: 25.APR.2024 12:09:48

Highest Band Edge / 1 RB



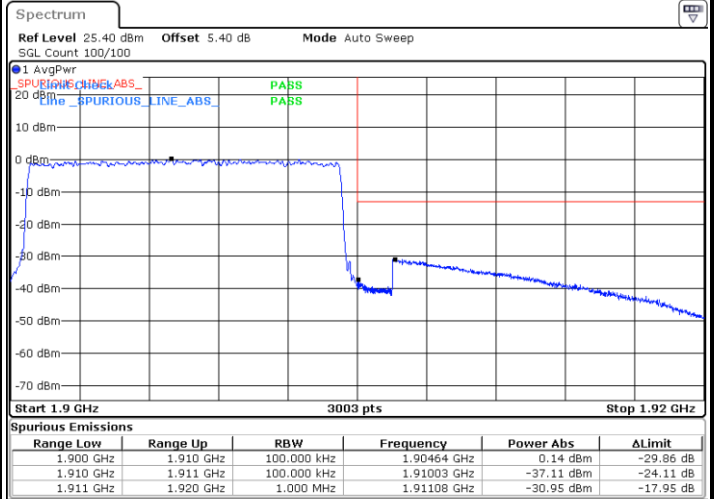
Date: 25.APR.2024 12:17:57

Lowest Band Edge / Full RB



Date: 25.APR.2024 12:10:39

Highest Band Edge / Full RB

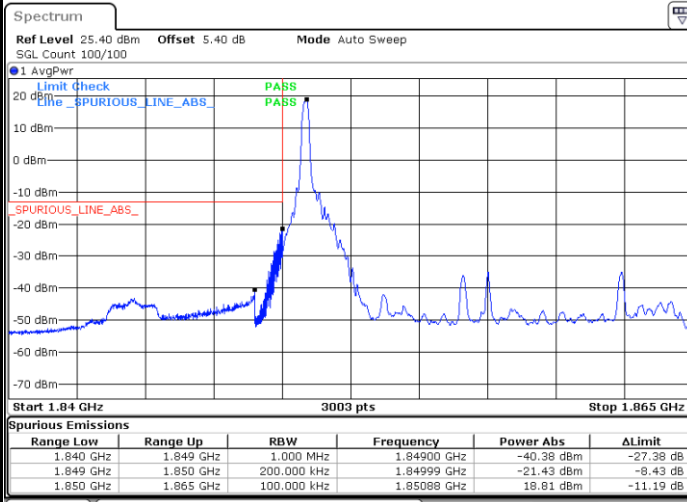


Date: 25.APR.2024 12:18:48



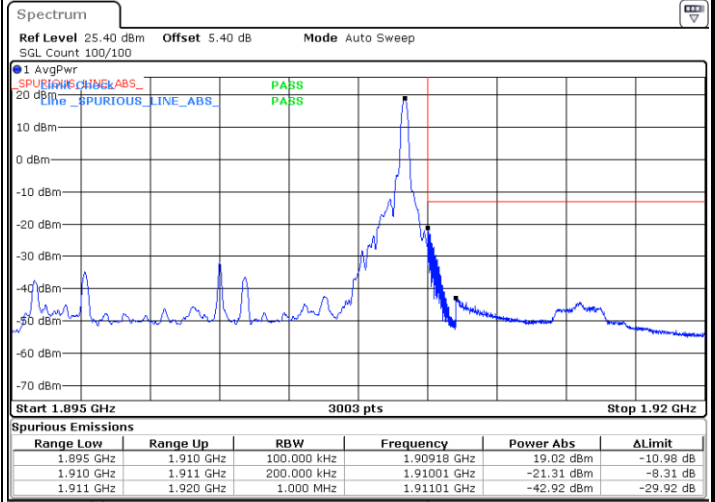
LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / 1 RB



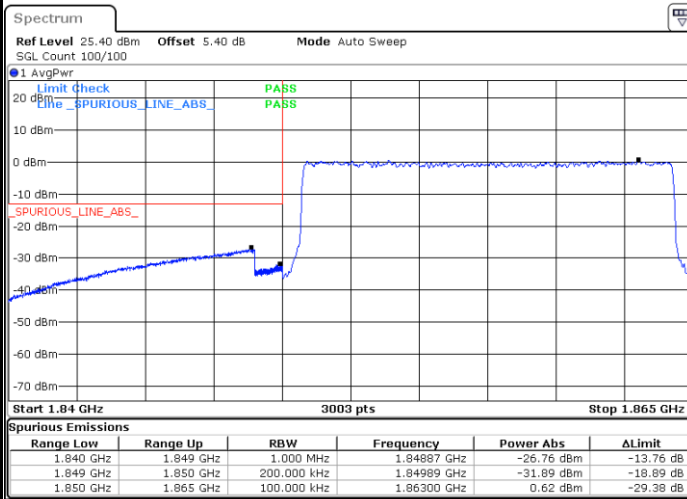
Date: 25.APR.2024 12:23:24

Highest Band Edge / 1 RB



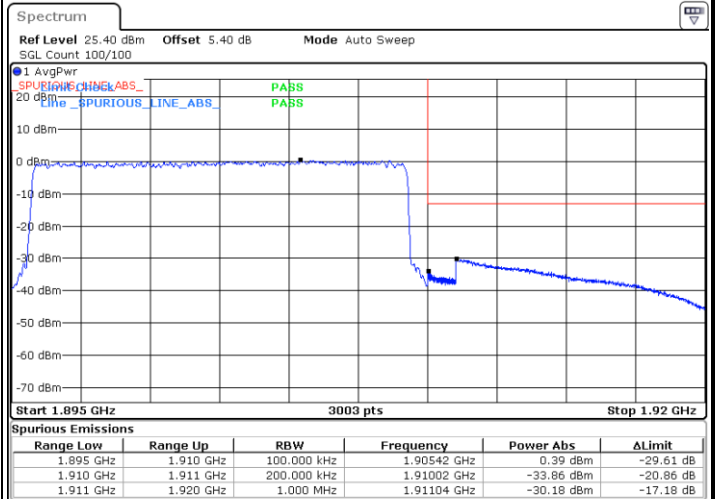
Date: 25.APR.2024 12:31:34

Lowest Band Edge / Full RB



Date: 25.APR.2024 12:27:41

Highest Band Edge / Full RB

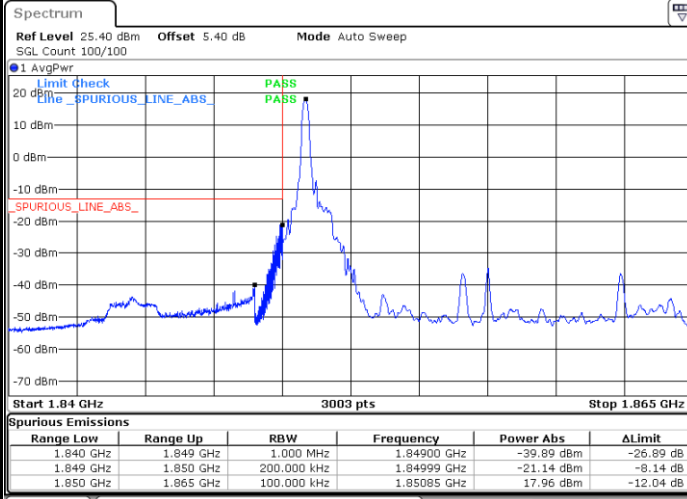


Date: 25.APR.2024 12:35:50



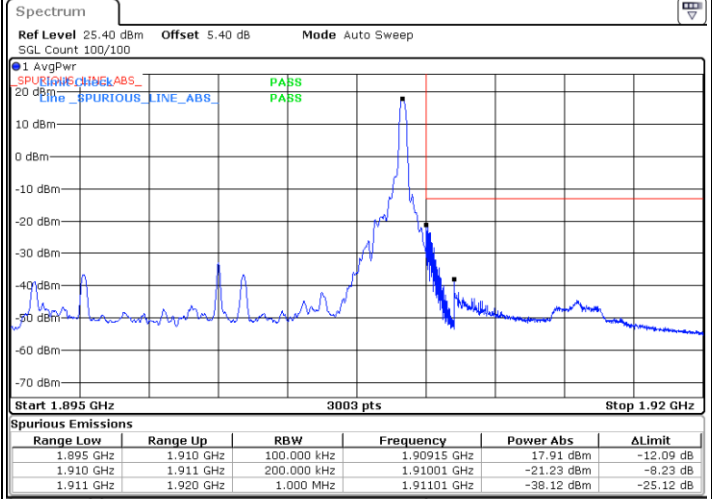
LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



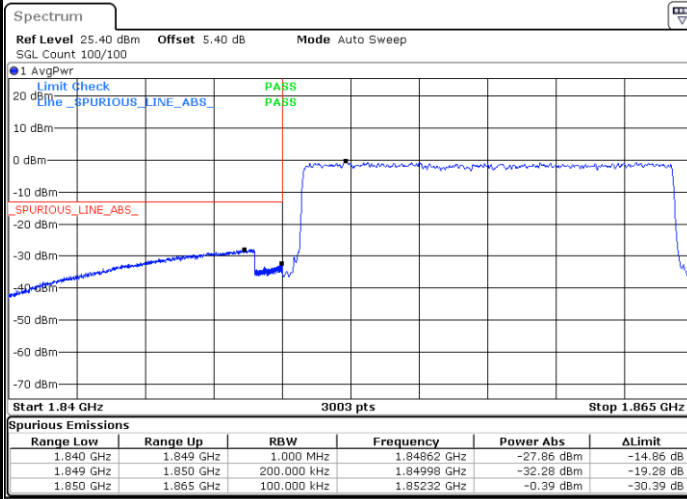
Date: 25.APR.2024 12:24:15

Highest Band Edge / 1 RB



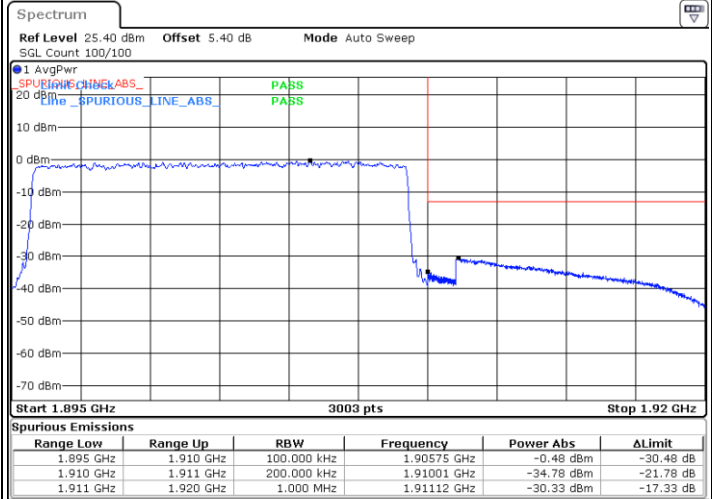
Date: 25.APR.2024 12:32:25

Lowest Band Edge / Full RB



Date: 25.APR.2024 12:26:50

Highest Band Edge / Full RB

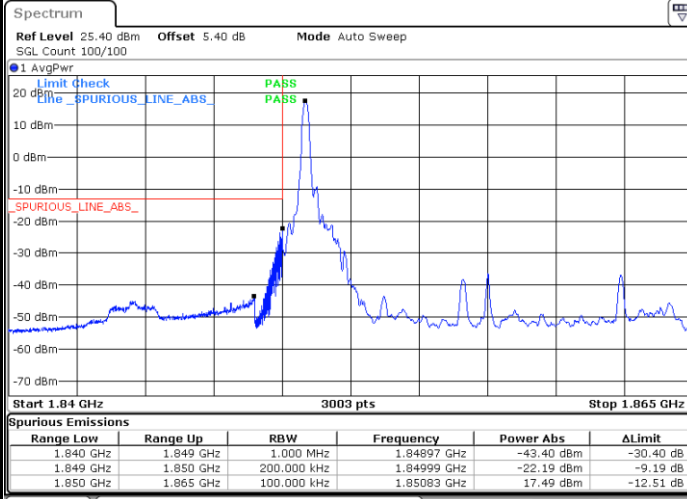


Date: 25.APR.2024 12:34:59



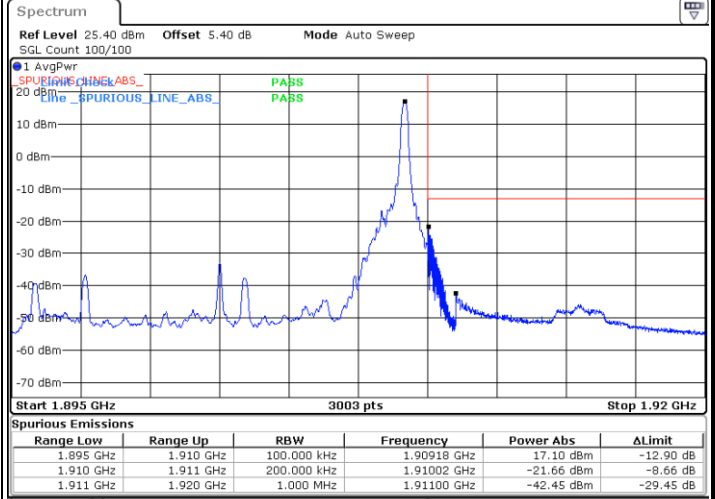
LTE Band 2 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



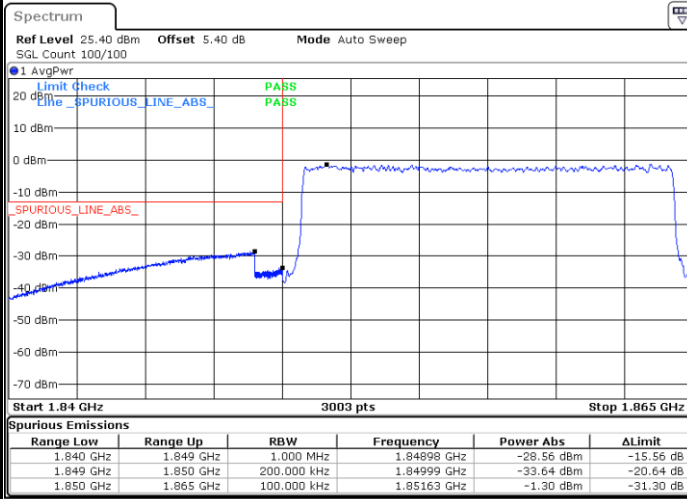
Date: 25.APR.2024 12:25:07

Highest Band Edge / 1 RB



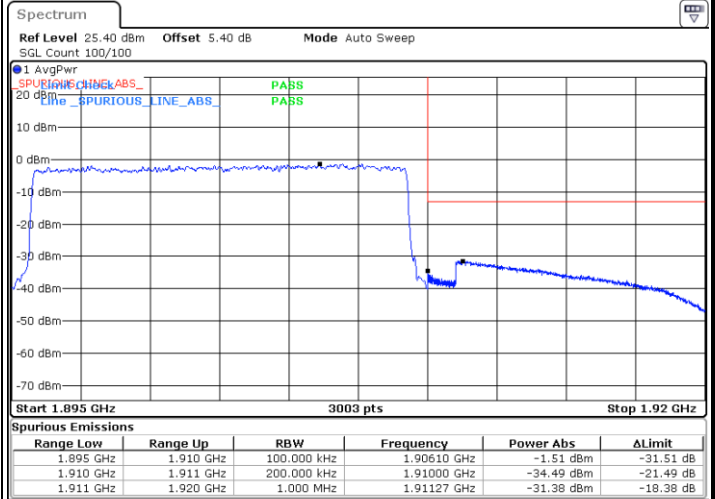
Date: 25.APR.2024 12:33:16

Lowest Band Edge / Full RB



Date: 25.APR.2024 12:25:58

Highest Band Edge / Full RB

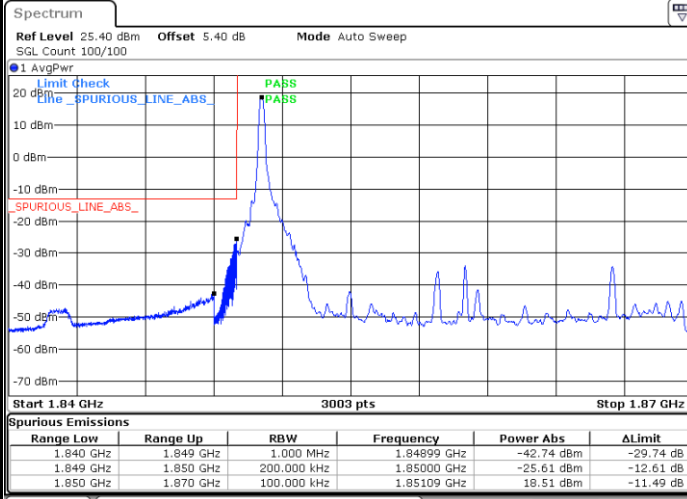


Date: 25.APR.2024 12:34:07



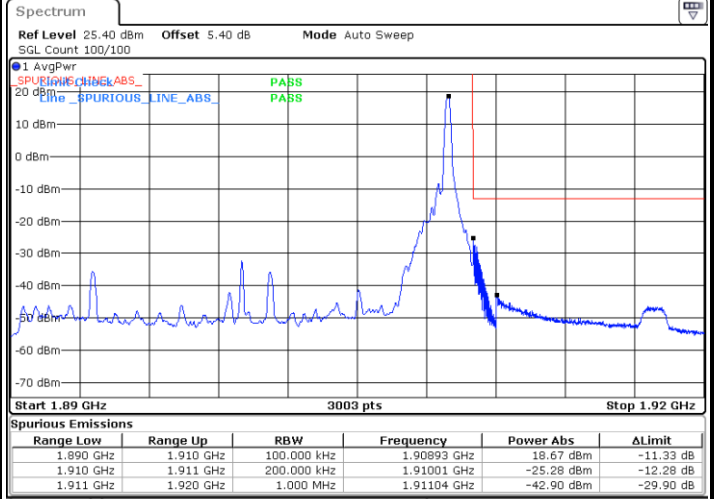
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1 RB



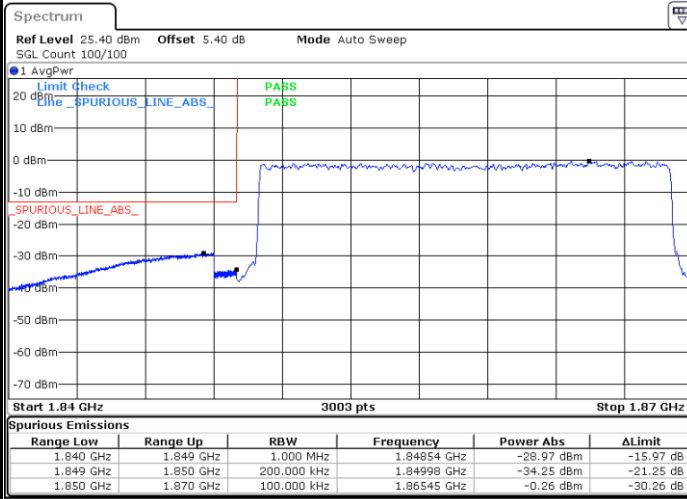
Date: 25.APR.2024 12:38:44

Highest Band Edge / 1 RB



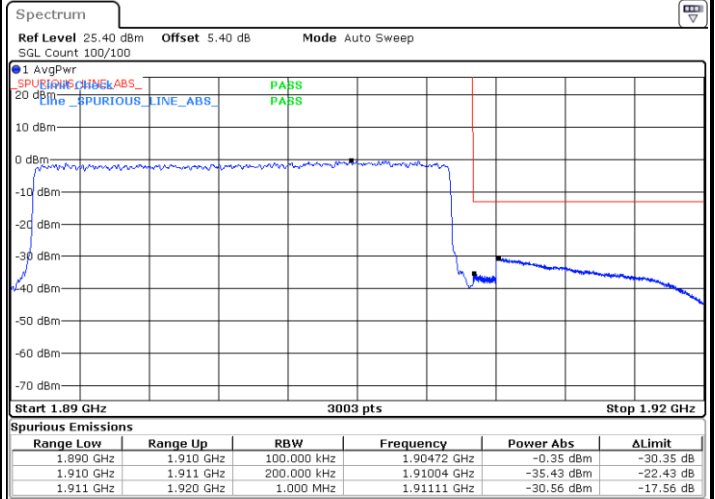
Date: 25.APR.2024 12:46:53

Lowest Band Edge / Full RB



Date: 25.APR.2024 12:42:59

Highest Band Edge / Full RB

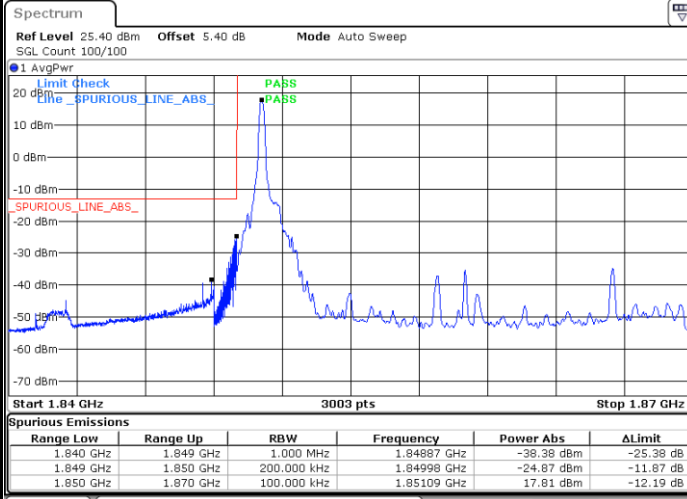


Date: 25.APR.2024 12:51:08



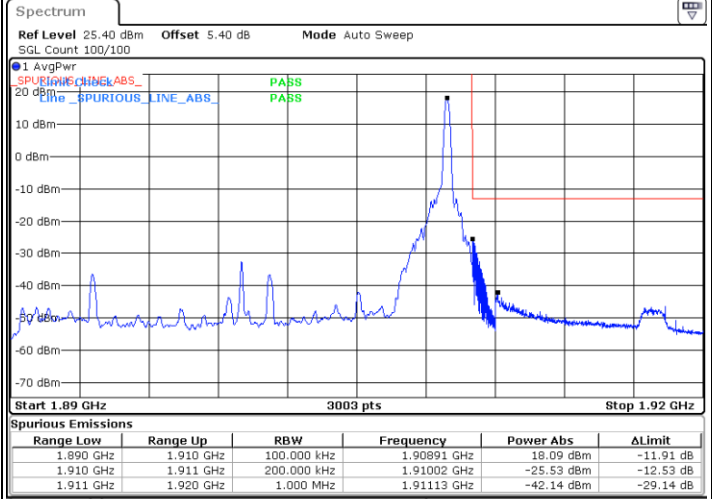
LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



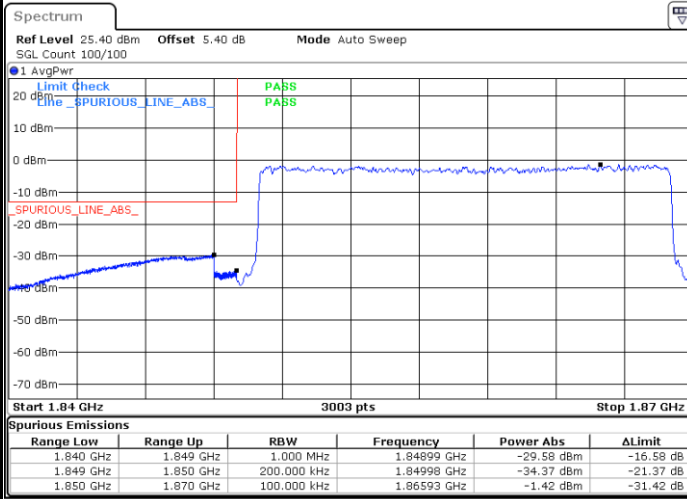
Date: 25.APR.2024 12:39:35

Highest Band Edge / 1 RB



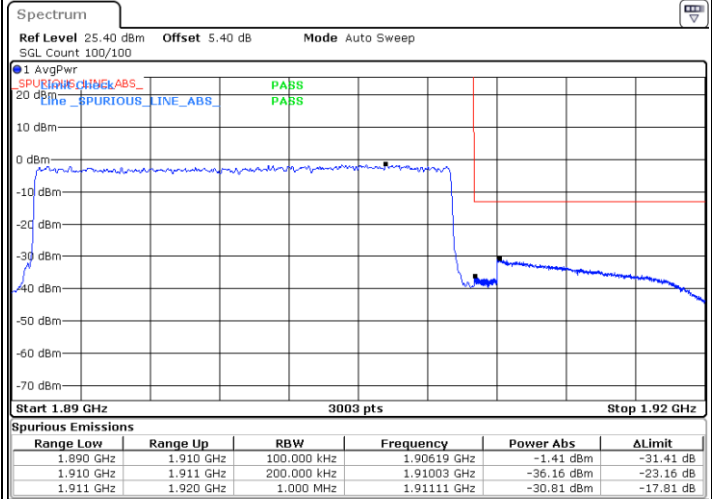
Date: 25.APR.2024 12:47:44

Lowest Band Edge / Full RB



Date: 25.APR.2024 12:42:08

Highest Band Edge / Full RB

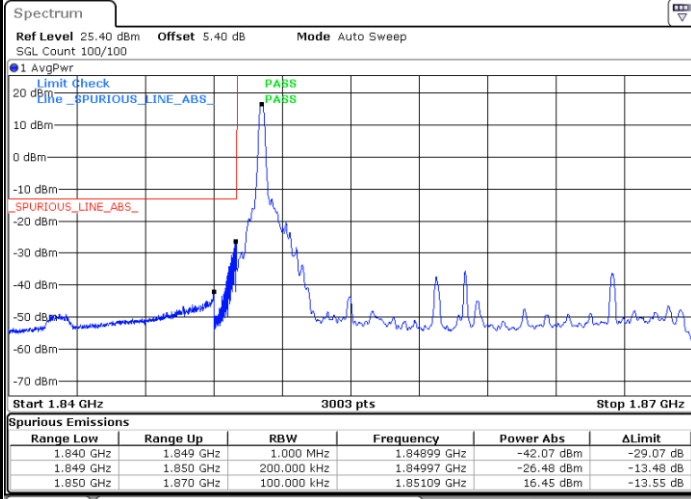


Date: 25.APR.2024 12:50:17



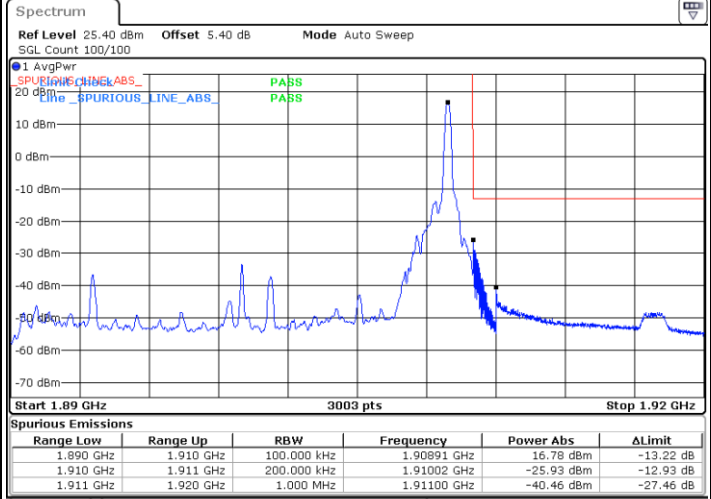
LTE Band 2 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



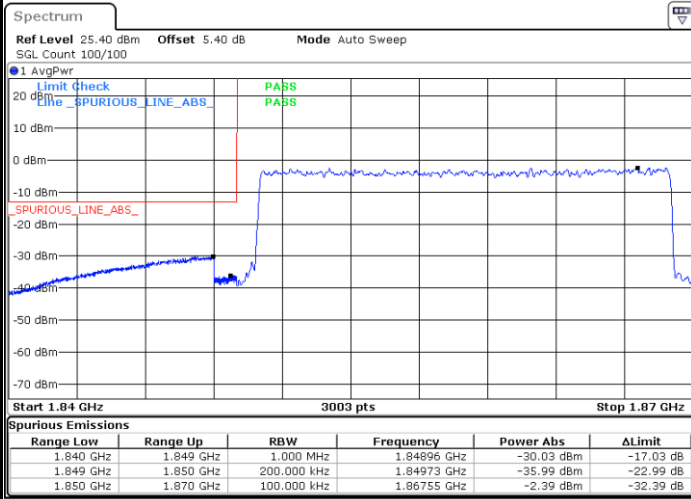
Date: 25.APR.2024 12:40:26

Highest Band Edge / 1 RB



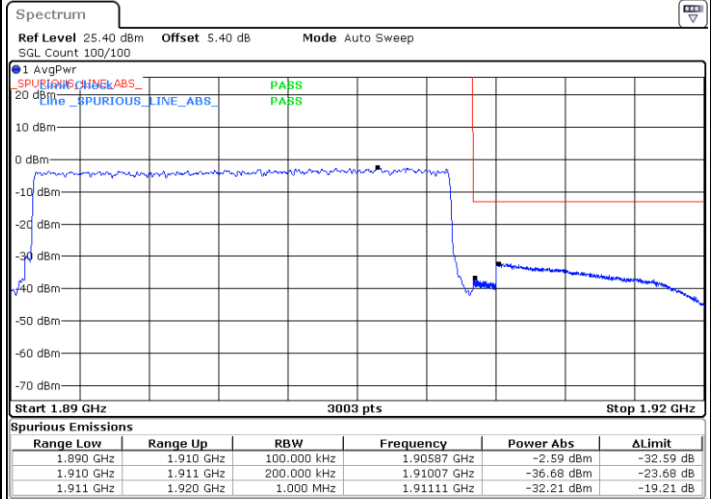
Date: 25.APR.2024 12:48:35

Lowest Band Edge / Full RB



Date: 25.APR.2024 12:41:17

Highest Band Edge / Full RB



Date: 25.APR.2024 12:49:26