

# FCC RF Test Report

APPLICANT : Motorola Mobility LLC  
EQUIPMENT : Mobile Cellular Phone  
BRAND NAME : Motorola  
MODEL NAME : M-51E(XT2453-8)  
FCC ID : IHDT56AQ9  
STANDARD : 47 CFR Part 2, Part 27 Subpart Q  
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)  
TEST DATE(S) : Jun. 17, 2024 ~ Jul. 09, 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.

This report contains data that were produced under subcontract by Sporton International Inc. (Shenzhen)

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



Approved by: Jason Jia

**Sporton International Inc. (Kunshan)**

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China**



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## SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	PASS	-
3.5	§27.50 (k)(4)	Peak-to-Average Ratio	<13dB	PASS	-
3.6	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	PASS	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.9	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 28.14 dB at 6982.00 MHz

**Conformity Assessment Condition:**

1. 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.
2. 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

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

## 1.2 Manufacturer

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

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	M-51E(XT2453-8)
FCC ID	IHDT56AQ9
IMEI Code	Conducted: 352282910007259 Radiation: 352282910005113/352282910005121
HW Version	DVT2
SW Version	UUC34.94
EUT Stage	Identical Prototype

## 1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	LTE Band 42: 3450 MHz ~ 3550 MHz
Bandwidth	5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	<ANT3> LTE Band 42 : 21.94 dBm LTE CA_42C : 21.81 dBm <ANT4> LTE Band 42 : 23.51 dBm LTE CA_42C : 23.47 dBm <ANT6> LTE Band 42 : 22.63 dBm LTE CA_42C : 22.55 dBm <ANT8> LTE Band 42 : 24.06 dBm LTE CA_42C : 23.81 dBm
Antenna Gain	<ANT3> : LTE Band 42 : -5.59 dBi <ANT4> : LTE Band 42 : -2.16 dBi <ANT6> : LTE Band 42 : -3.14 dBi <ANT8> : LTE Band 42 : -3.23 dBi

Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM
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Note: The maximum EIRP is calculated from max output power and max antenna gain, only the maximum EIRP of Ant.4 for LTE Band 42/42C are shown in the report.

### 1.5 Modification of EUT

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

### 1.6 Specification of Accessory

Specification of Accessory				
Battery 1	Brand Name	Motorola	Model Name	RD11
Battery 2	Brand Name	Motorola	Model Name	RD29

### 1.7 Maximum EIRP Power and Emission Designator

LTE Band 42		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	3452.5 ~ 3547.5	0.1355	4M50G7D	0.1067	4M47W7D
10	3455 ~ 3545	0.1340	9M01G7D	0.1059	8M99W7D
15	3457.5 ~ 3542.5	0.1349	13M4G7D	0.1047	13M5W7D
20	3460 ~ 3540	0.1365	17M9G7D	0.1076	17M7W7D

LTE Band 42 CA		QPSK		16QAM/64QAM/256QAM	
BW (MHz)		Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
20MHz+20MHz		0.1352	37M6G7D	0.1072	38M0W7D
20MHz+15MHz		0.1343	32M9G7D	0.1062	32M7W7D
15MHz+20MHz		0.1318	32M9G7D	0.1057	32M9W7D
20MHz+10MHz		0.1294	28M0G7D	0.1072	27M9W7D
10MHz+20MHz		0.1315	28M0G7D	0.1054	28M2W7D
20MHz+5MHz		0.1321	23M4G7D	0.1076	23M4W7D
5MHz+20MHz		0.1291	23M4G7D	0.1054	23M0W7D

### 1.8 Testing Site

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

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

<b>Test Firm</b>	Sporton International Inc. (ShenZhen)		
<b>Test Site Location</b>	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		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH04-SZ	CN1256	421272

### 1.9 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



## 1.10 Applied Standards

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

- ♦ 47 CFR Part 2, Part 27 Subpart Q
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 Power Meas License Digital Systems D01 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 Cases	Band	Bandwidth (MHz)	Modulation	RB #	Test Channel
		eg. 5M, 10M, 15M, 20M	eg. QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L/M/H
Max. Output Power	LTE Band 42	5M, 10M, 15M, 20M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Full RB	L, M, H
Peak-to-Average Ratio	LTE Band 42	20M	QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
E.I.R.P	LTE Band 42	5M, 10M, 15M, 20M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Full RB	L, M, H
26dB and 99% Bandwidth	LTE Band 42	20M	QPSK, 16QAM	Full RB	M
Conducted Band Edge	LTE Band 42	5M, 10M, 15M, 20M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Full RB	L, H
Conducted Spurious Emission	LTE Band 42	5M, 10M, 15M, 20M	QPSK	1RB	L, M, H
Frequency Stability	LTE Band 42	5M	QPSK	1RB	M
Radiated Spurious Emission	LTE Band 42	Worst case from maximum power			M

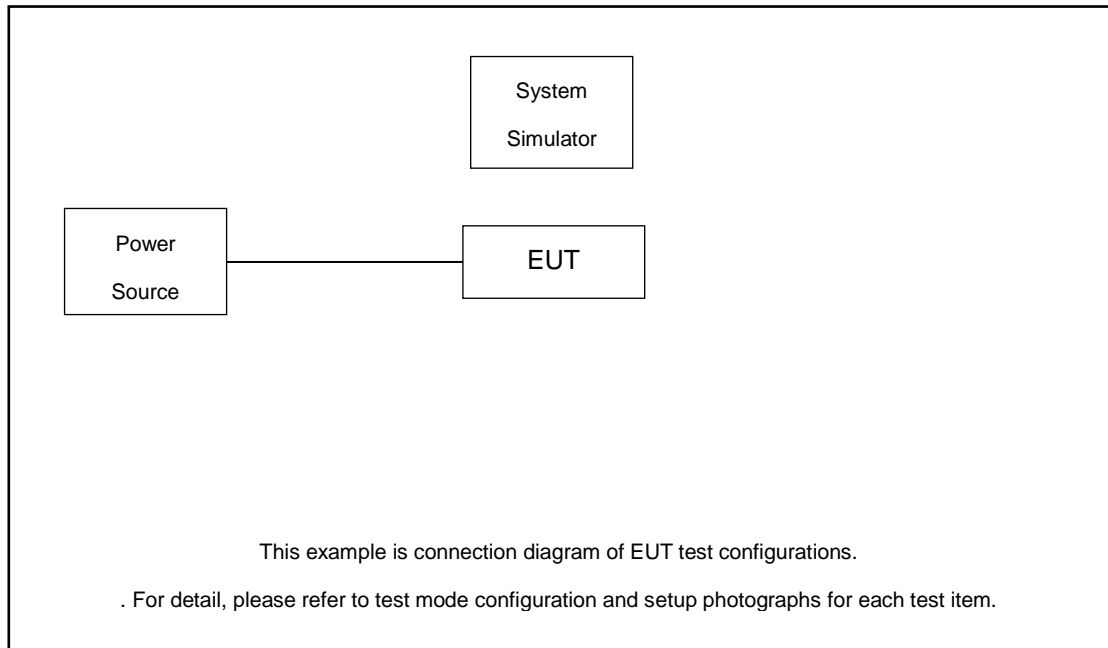
**Note:**

The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.



Test Items	Band	Bandwidth (MHz)										Modulation			RB #			Test Channel							
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16 QAM	64 QAM	256 QAM	1	Half	Full	L	M	H				
Max. Output Power	42C_CA	v	v	v	v	v	v	v	-	-	-	v	v	v	v				v			v	v	v	
26dB and 99% Bandwidth	42C_CA	v	v	v	v	v	v	v	-	-	-	v	v								v		v		
Conducted Band Edge	42C_CA	v	v	v	v	v	v	v	-	-	-	v	v	v	v	v			v			v		v	
Conducted Spurious Emission	42C_CA	v	v	v	v	v	v	v	-	-	-	v				v						v	v	v	
E.I.R.P.	42C_CA	v	v	v	v	v	v	v	-	-	-	v	v	v	v	v			v			v	v	v	
Radiated Spurious Emission	42C_CA	Worst Case																						v	
Note	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																								

## 2.2 Connection Diagram of Test System



## 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.	Fixture	INTEL	NGFF Card Carrier	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.

*Offset = RF cable loss.*

Following shows an offset computation example with cable loss 6.5 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 6.5 \text{ (dB)} \end{aligned}$$

## 2.5 Frequency List of Low/Middle/High Channels

LTE Band 42 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	42190	42590	42990
	Frequency	3460	3500	3540
15	Channel	42165	42590	43015
	Frequency	3457.5	3500	3542.5
10	Channel	42140	42590	43040
	Frequency	3455	3500	3545
5	Channel	42115	42590	43065
	Frequency	3452.5	3500	3547.5

LTE Band 42C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest	
20 + 20	PCC	Channel	42190	42590	42792
		Frequency	3460	3500	3520.2
	SCC	Channel	42388	42788	42990
		Frequency	3479.8	3519.8	3540
20 + 15	PCC	Channel	42190	42590	42844
		Frequency	3460	3500	3525.4
	SCC	Channel	42361	42761	43015
		Frequency	3477.1	3517.1	3542.5
15 + 20	PCC	Channel	42165	42590	42819
		Frequency	3457.5	3500	3522.9
	SCC	Channel	42336	42761	42990
		Frequency	3474.6	3517.1	3540
20 + 10	PCC	Channel	42190	42590	42896
		Frequency	3460	3500	3530.6
	SCC	Channel	42334	42734	43040
		Frequency	3474.4	3514.4	3545
10 + 20	PCC	Channel	42140	42590	42846
		Frequency	3455	3500	3525.6
	SCC	Channel	42284	42734	42990
		Frequency	3469.4	3514.4	3540
20 + 5	PCC	Channel	42190	42590	42948
		Frequency	3460	3500	3535.8
	SCC	Channel	42307	42707	43065
		Frequency	3471.7	3511.7	3547.5
5 + 20	PCC	Channel	42115	42590	42873
		Frequency	3452.5	3500	3528.3
	SCC	Channel	42232	42707	42990
		Frequency	3464.2	3511.7	3540

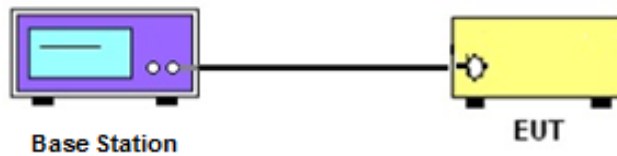
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

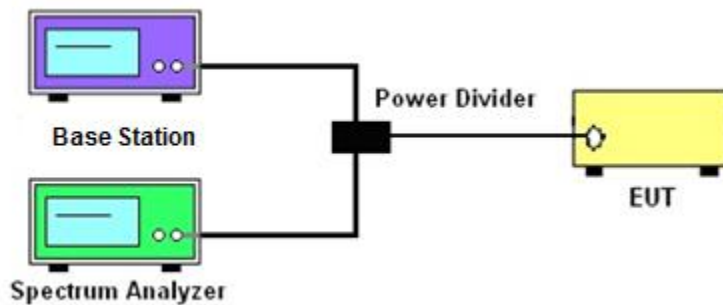
See list of measuring instruments of this test report.

#### 3.2 Test Setup

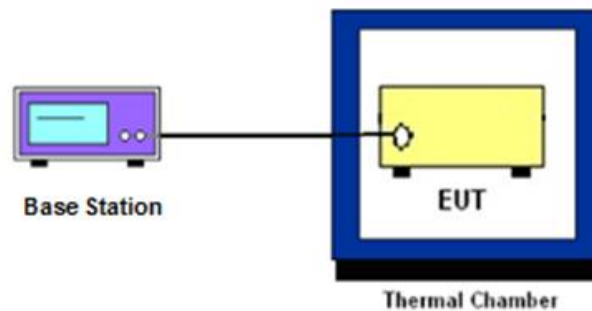
##### 3.2.1 Conducted Output Power



##### 3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth, 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 Measurement**

### **3.4.1 Description of the Conducted Output Power Measurement**

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

### **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 EIRP

### 3.6.1 Description of EIRP Limit

#### § 27.50 (k)(3)

Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

### 3.6.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2.  $EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , 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

## 3.7 Occupied Bandwidth

### 3.7.1 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.

### 3.7.2 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.



## 3.8 Conducted Band Edge Measurement

### 3.8.1 Description of Conducted Band Edge Measurement

#### § 27.53 (n)(2)

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed  $-13$  dBm/MHz.

Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz 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, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

### 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 band edges of low and high channels for the highest RF powers were measured.
4. Set RBW  $\geq$  1% EBW but limited to a maximum of 200 kHz in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz and 5 MHz removed from the band edge, set RBW  $\geq$  500KHz.
6. Beyond the 5 MHz removed from the band edge, set RBW = 1MHz.
7. Set spectrum analyzer with RMS detector.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.

## 3.9 Conducted Spurious Emission Measurement

### 3.9.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges shall not exceed -13 dBm/MHz.

It is measured by means of a calibrated spectrum analyzer and scanned from 9 kHz up to a frequency including its 10<sup>th</sup> harmonic.

### 3.9.2 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. Checked that all the results comply with the emission limit line.

## 3.10 Frequency Stability Measurement

### 3.10.1 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.

### 3.10.2 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  $-30^{\circ}\text{C}$  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  $10^{\circ}\text{C}$  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.

### 3.10.3 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.

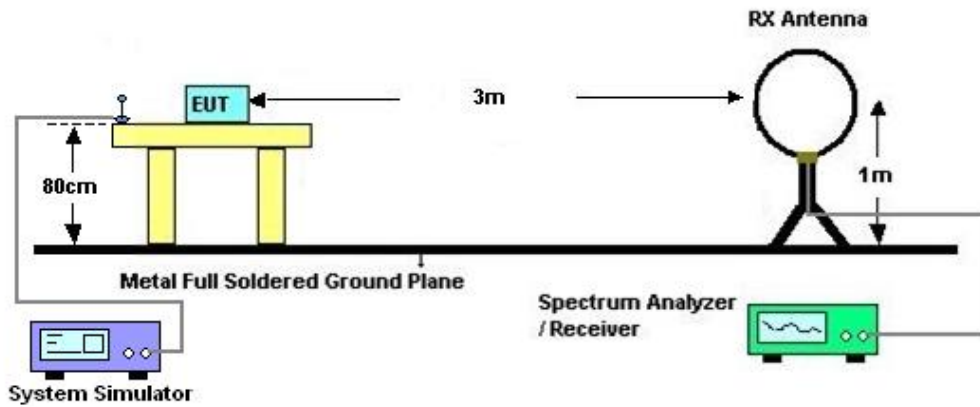
## 4 Radiated Test Items

### 4.1 Measuring Instruments

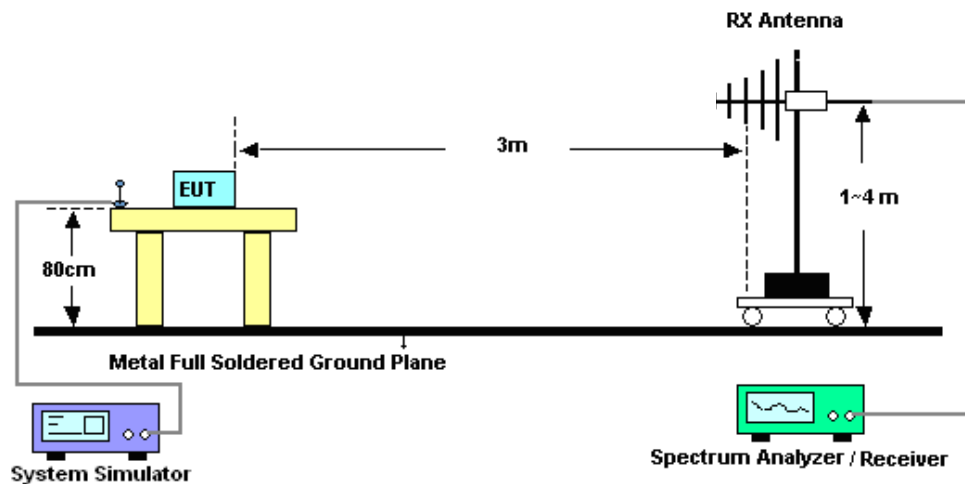
See list of measuring instruments of this test report.

### 4.2 Test Setup

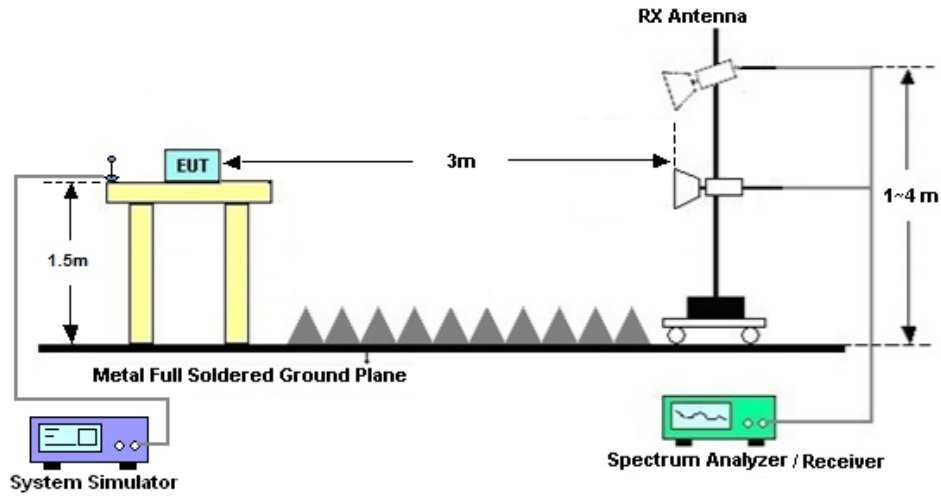
#### 4.2.1 For radiated test below 30MHz



#### 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 Measurement

### 4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. The power of any emission outside of the authorized operating frequency ranges shall not exceed -13 dBm/MHz.

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.  
$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$
$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



## 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	Jun. 17, 2024~ Jun. 18, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Jun. 17, 2024~ Jun. 18, 2024	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 06, 2023	Jun. 17, 2024~ Jun. 18, 2024	Jul. 05, 2024	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 18, 2023	Jun. 27, 2024~ Jul. 09, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071191	10Hz~44GHz	Apr. 09, 2024	Jun. 27, 2024~ Jul. 09, 2024	Apr. 08, 2025	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Jun. 27, 2024~ Jul. 09, 2024	Jul. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 09 2024	Jun. 27, 2024~ Jul. 09, 2024	May 08, 2025	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-2206	1GHz~18GHz	Apr. 09, 2024	Jun. 27, 2024~ Jul. 09, 2024	Apr. 08, 2025	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	00983	15GHz~40GHz	Apr. 09, 2024	Jun. 27, 2024~ Jul. 09, 2024	Apr. 08, 2025	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2023	Jun. 27, 2024~ Jul. 09, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 OP-R	1943528	1GHz~18GHz	Oct. 18, 2023	Jun. 27, 2024~ Jul. 09, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Aug. 21, 2023	Jun. 27, 2024~ Jul. 09, 2024	Aug. 20, 2024	Radiation (03CH04-SZ)
HF Amplifier	EM Electronics	EM18G40G	060778	18GHz~40GHz	Apr. 09, 2024	Jun. 27, 2024~ Jul. 09, 2024	Apr. 08, 2025	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Oct. 18, 2023	Jun. 27, 2024~ Jul. 09, 2024	Oct. 17, 2024	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 27, 2024~ Jul. 09, 2024	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jun. 27, 2024~ Jul. 09, 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

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
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.1 dB
---	--------

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

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

----- 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 EIRP

#### LTE Band 42\_ANT4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				42190	42590	42990	EIRP(W)		
Frequency (MHz)				3460	3500	3540	L	M	H
20	QPSK	1	0	23.48	23.51	23.49	0.1355	0.1365	0.1358
20	QPSK	1	99	23.43	23.40	23.47	0.1340	0.1330	0.1352
20	QPSK	100	0	22.48	22.50	22.46	0.1076	0.1081	0.1072
20	16QAM	1	0	22.32	22.48	22.43	0.1038	0.1076	0.1064
20	64QAM	1	0	21.35	21.53	21.43	0.0830	0.0865	0.0845
20	256QAM	1	0	18.46	18.58	18.53	0.0427	0.0439	0.0434
Channel				42165	42590	43015	EIRP(W)		
Frequency (MHz)				3457.5	3500	3542.5	L	M	H
15	QPSK	1	0	23.41	23.46	23.40	0.1334	0.1349	0.1330
15	16QAM	1	0	22.22	22.35	22.36	0.1014	0.1045	0.1047
Channel				42140	42590	43040	EIRP(W)		
Frequency (MHz)				3455	3500	3545	L	M	H
10	QPSK	1	0	23.43	23.39	23.37	0.1340	0.1327	0.1321
10	16QAM	1	0	22.20	22.41	22.36	0.1009	0.1059	0.1047
Channel				42115	42590	43065	EIRP(W)		
Frequency (MHz)				3452.5	3500	3547.5	L	M	H
5	QPSK	1	0	23.40	23.48	23.36	0.1330	0.1355	0.1318
5	16QAM	1	0	22.19	22.44	22.32	0.1007	0.1067	0.1038



LTE CA\_42C\_ANT4

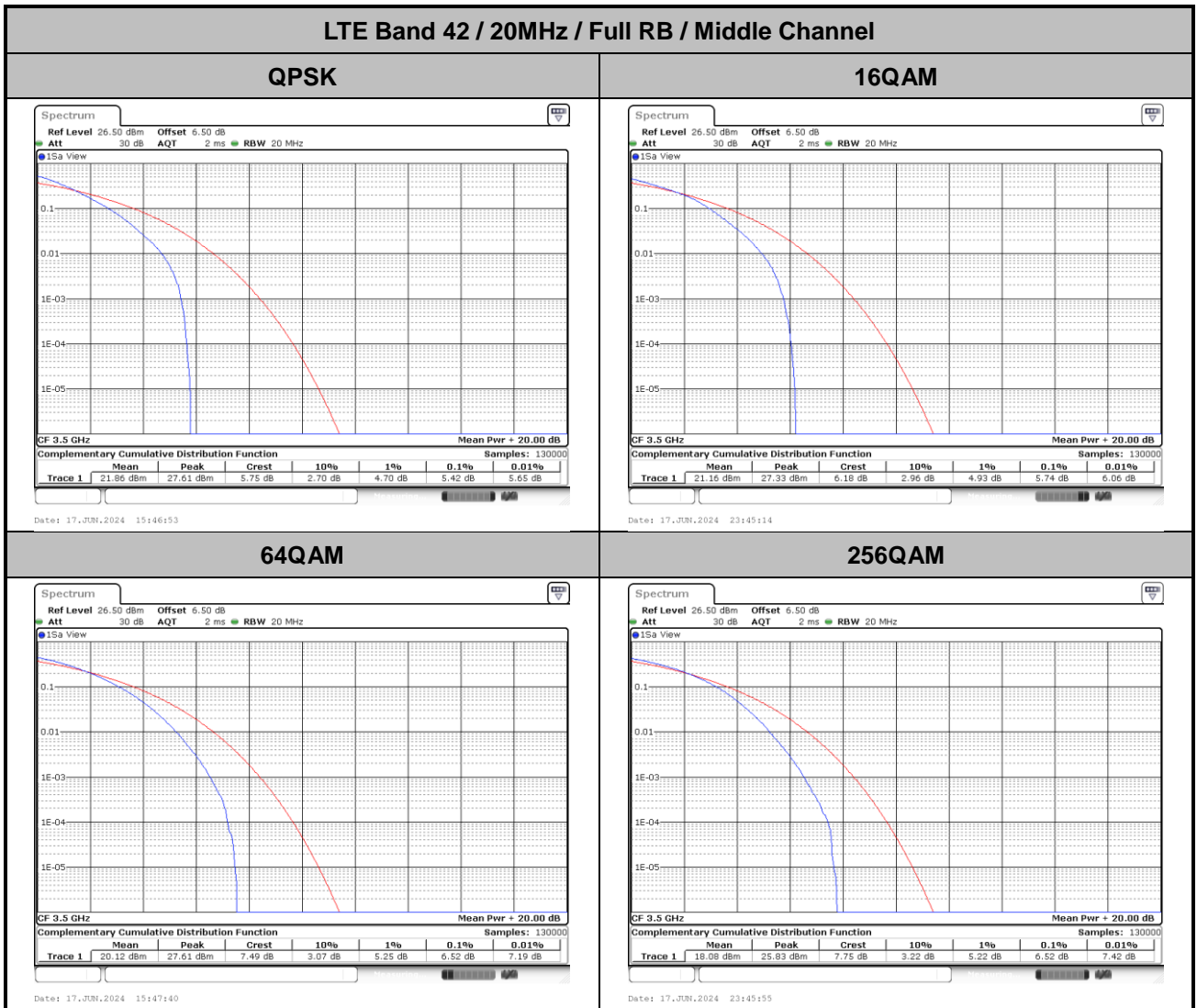
Combination 20MHz+20MHz (100RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	23.39	0.1327
M	QPSK	1	Max	1	0	23.47	0.1352
H	QPSK	1	Max	1	0	23.28	0.1294
L	16QAM	1	Max	1	0	22.46	0.1072
M	16QAM	1	Max	1	0	22.35	0.1045
H	16QAM	1	Max	1	0	22.37	0.1050
L	64QAM	1	Max	1	0	21.42	0.0843
M	64QAM	1	Max	1	0	21.45	0.0849
H	64QAM	1	Max	1	0	21.26	0.0813
L	256QAM	1	Max	1	0	18.40	0.0421
M	256QAM	1	Max	1	0	18.38	0.0419
H	256QAM	1	Max	1	0	18.42	0.0423
Combination 20MHz+15MHz (100RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	23.44	0.1343
L	16QAM	1	Max	1	0	22.42	0.1062
Combination 15MHz+20MHz (100RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	23.36	0.1318
L	16QAM	1	Max	1	0	22.40	0.1057
Combination 20MHz+10MHz (100RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	23.28	0.1294
L	16QAM	1	Max	1	0	22.46	0.1072
Combination 10MHz+20MHz (50RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	23.35	0.1315
L	16QAM	1	Max	1	0	22.39	0.1054
Combination 20MHz+5MHz (100RB+25RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	23.37	0.1321
L	16QAM	1	Max	1	0	22.48	0.1076
Combination 5MHz+20MHz (25RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
M	QPSK	1	Max	1	0	23.27	0.1291
L	16QAM	1	Max	1	0	22.39	0.1054



# LTE Band 42

## Peak-to-Average Ratio

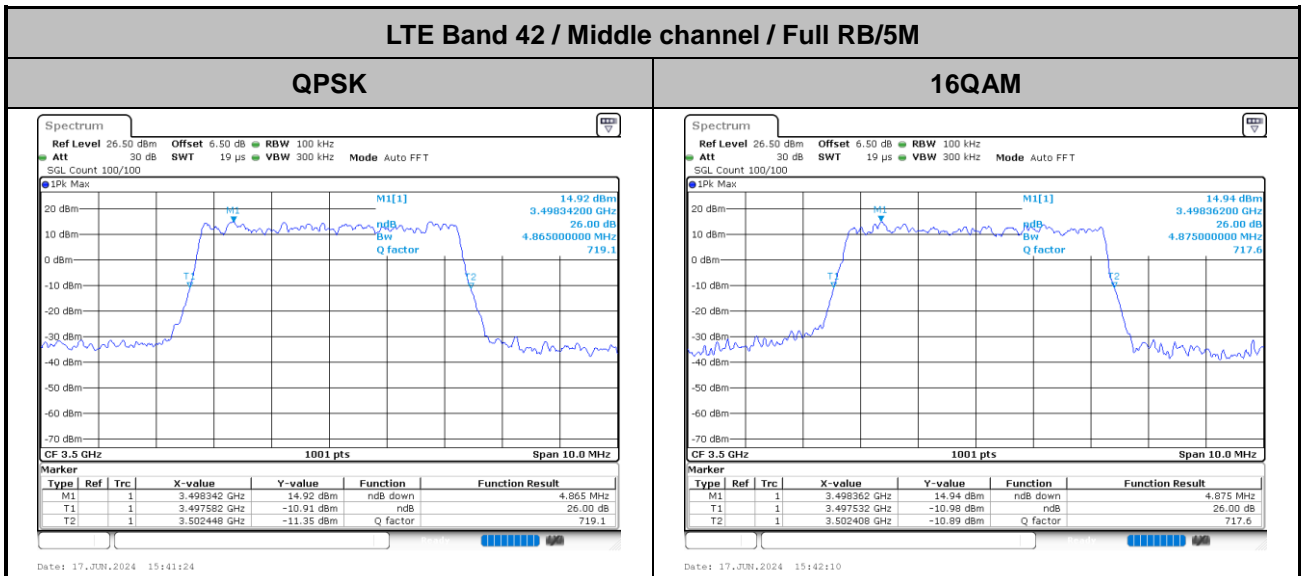
Mode	LTE Band 42 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB				Result
Middle CH	5.42	5.74	6.52	6.52	PASS





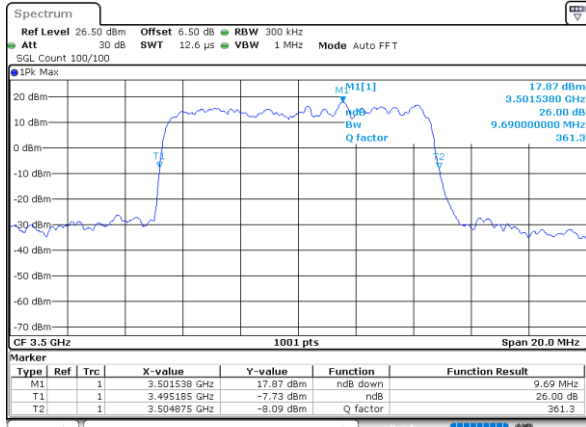
## 26dB Bandwidth

Mode	LTE Band 42 : 26dB BW(MHz)							
	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.87	4.88	9.69	9.63	14.33	14.57	18.86	18.62



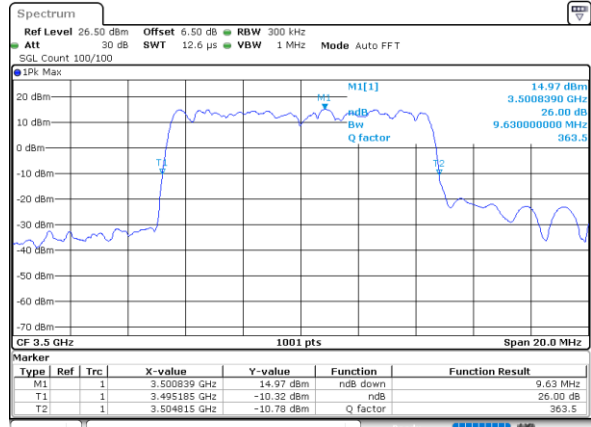
LTE Band 42 / Middle channel / Full RB/10M

QPSK



Date: 17\_JUN.2024 15:42:54

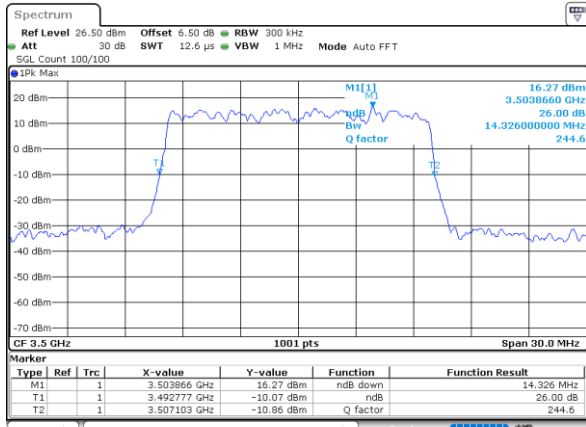
16QAM



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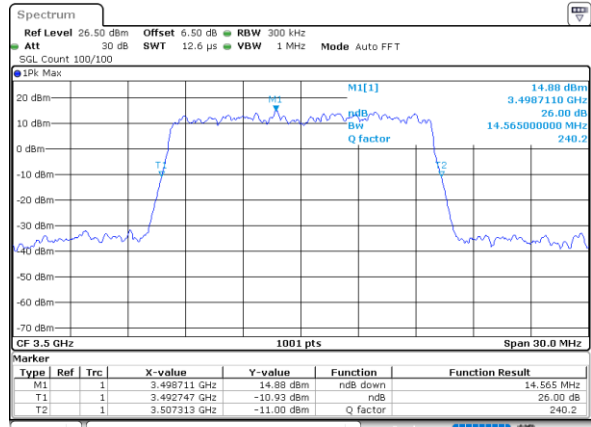
LTE Band 42 / Middle channel / Full RB/15M

QPSK



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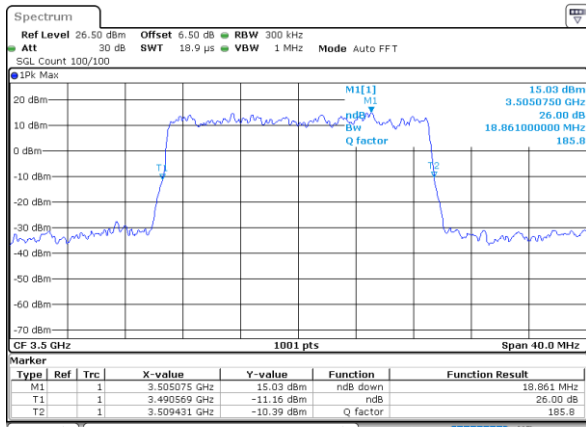
16QAM



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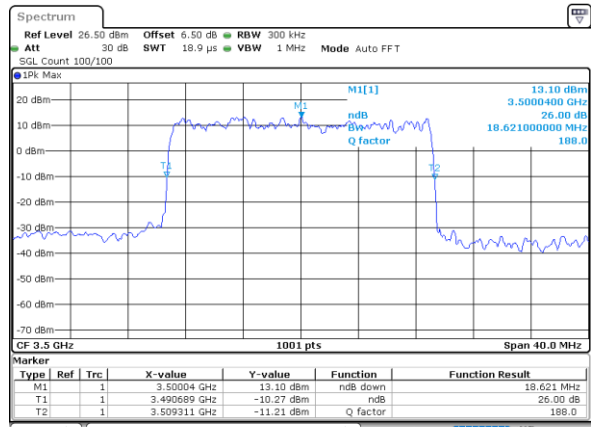
LTE Band 42 / Middle channel / Full RB/20M

QPSK



Date: 17\_JUN.2024 23:44:06

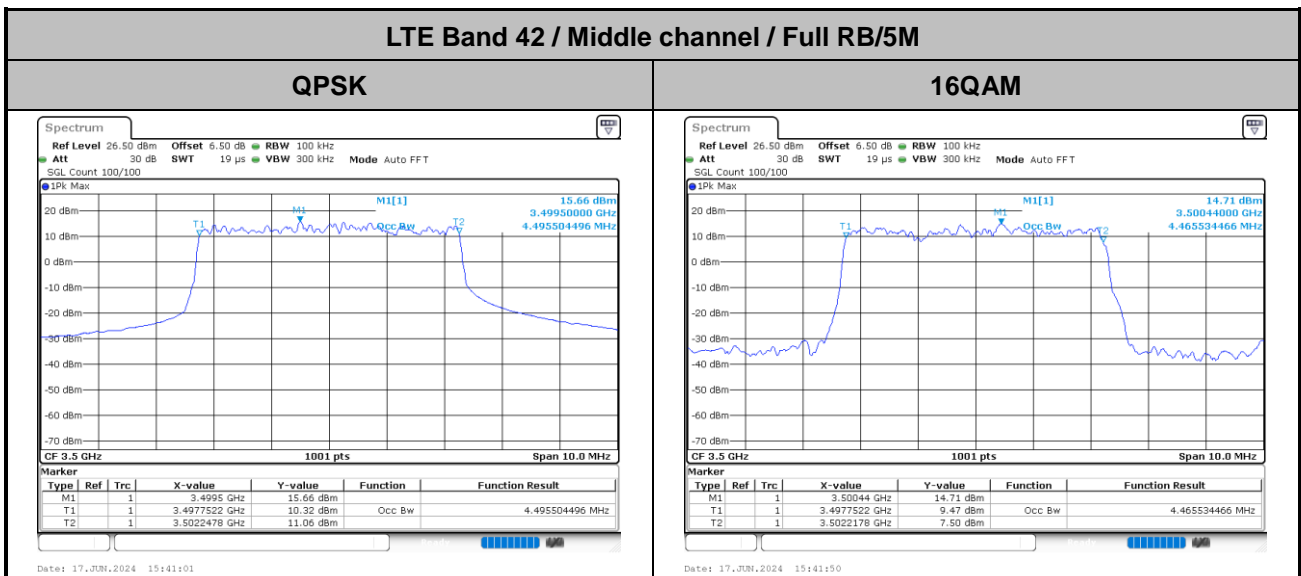
16QAM



Date: 17\_JUN.2024 15:46:31

## Occupied Bandwidth

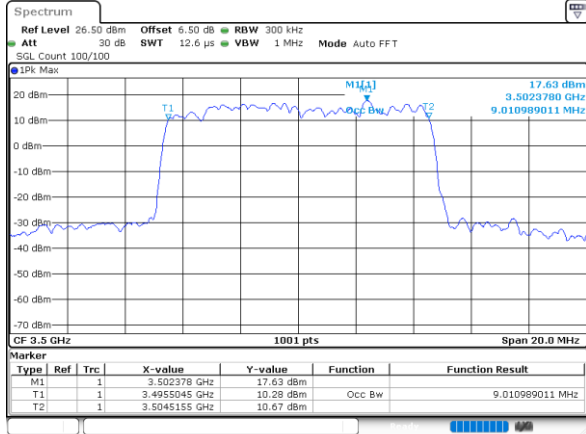
Mode	LTE Band 42 : 99%OBW(MHz)							
	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.50	4.47	9.01	8.99	13.43	13.52	17.86	17.74





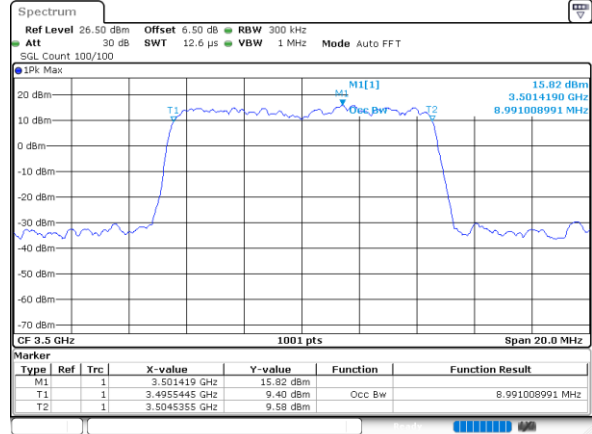
LTE Band 42 / Middle channel / Full RB/10M

QPSK



Date: 17\_JUN.2024 15:42:33

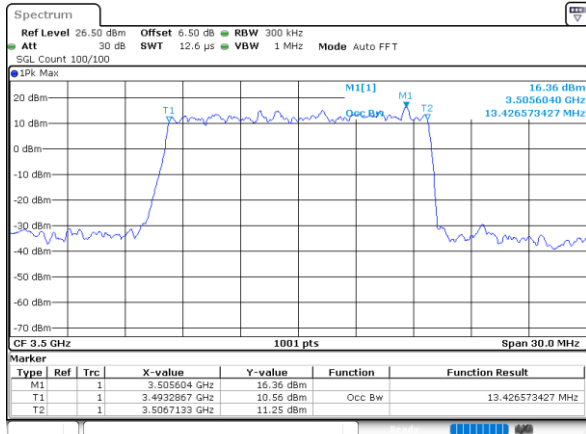
16QAM



Date: 17\_JUN.2024 15:43:16

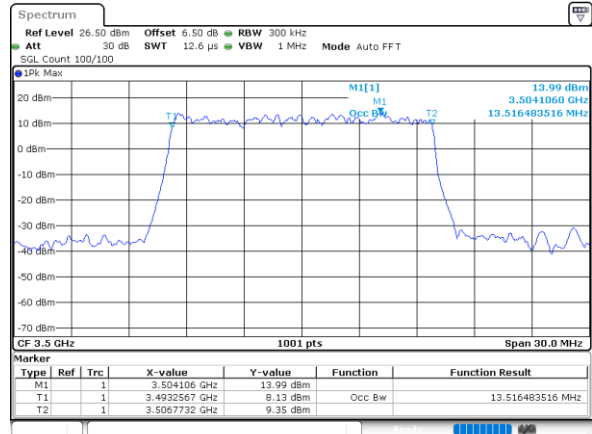
LTE Band 42 / Middle channel / Full RB/15M

QPSK



Date: 17\_JUN.2024 15:44:00

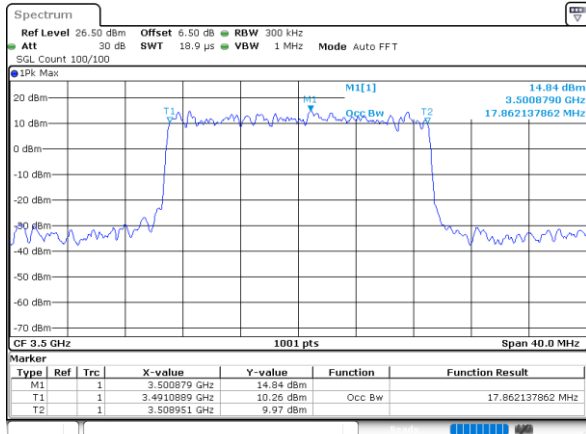
16QAM



Date: 17\_JUN.2024 15:44:43

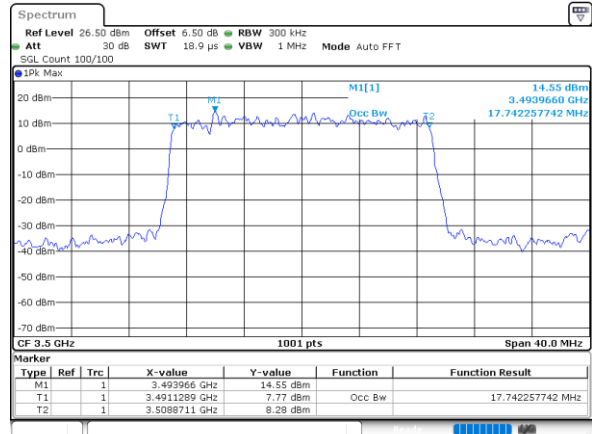
LTE Band 42 / Middle channel / Full RB/20M

QPSK



Date: 17\_JUN.2024 15:45:26

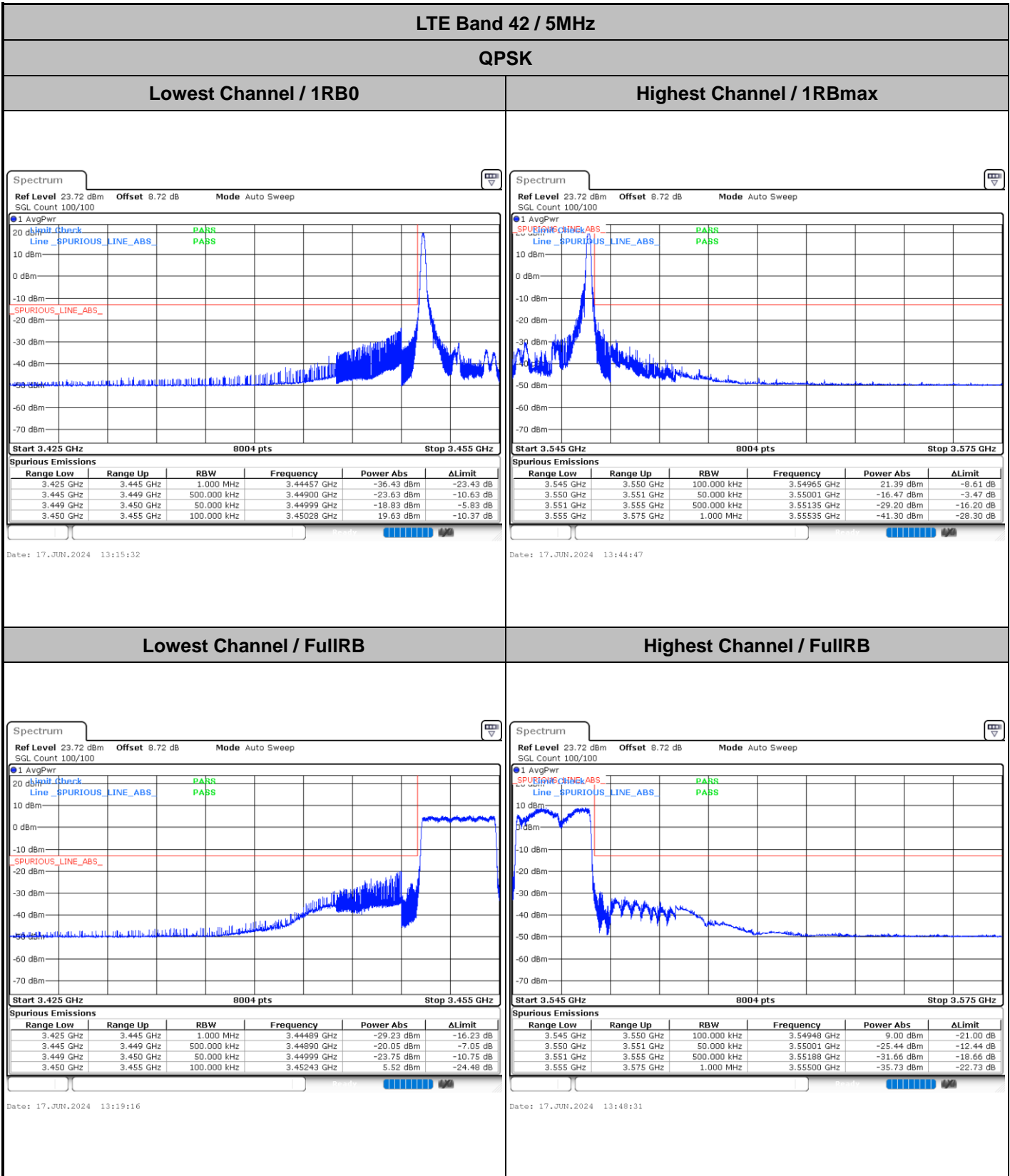
16QAM



Date: 17\_JUN.2024 15:46:09



# Conducted Band Edge



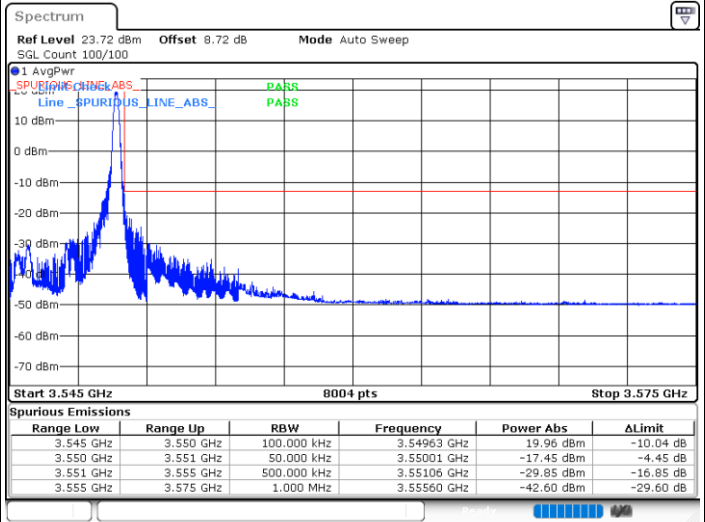
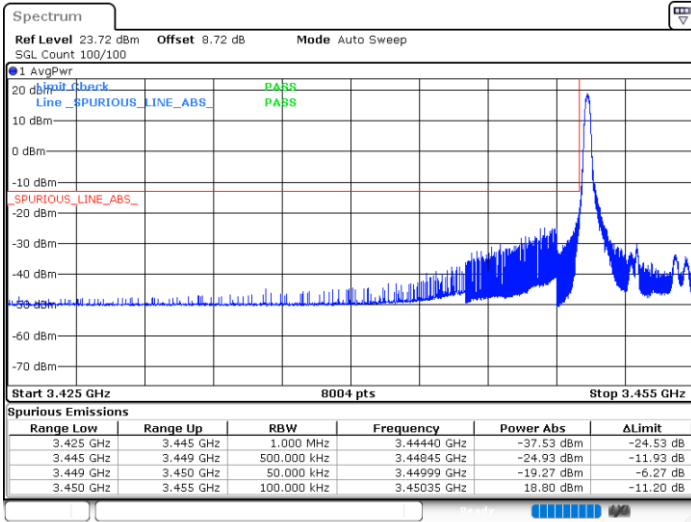


LTE Band 42 / 5MHz

16QAM

Lowest Channel / 1RB0

Highest Channel / 1RBmax

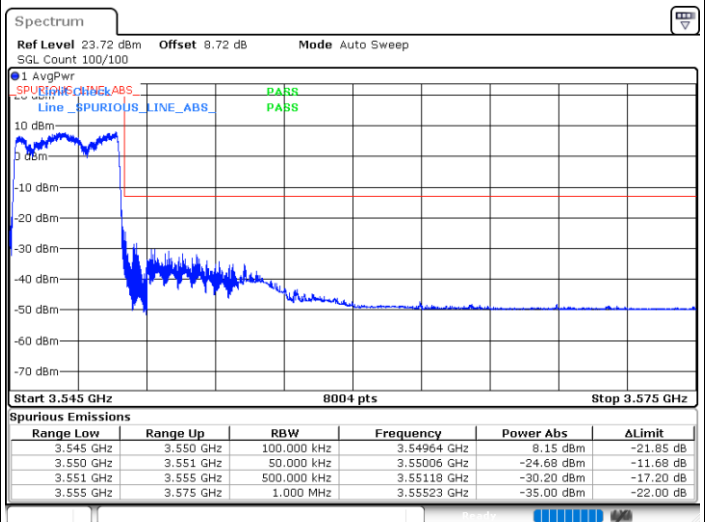
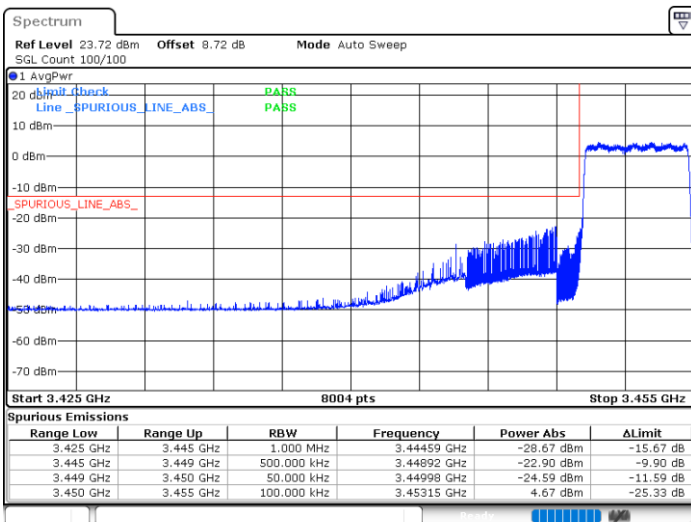


Date: 17.JUN.2024 13:16:28

Date: 17.JUN.2024 13:45:43

Lowest Channel / FullRB

Highest Channel / FullRB



Date: 17.JUN.2024 13:20:12

Date: 17.JUN.2024 13:49:27

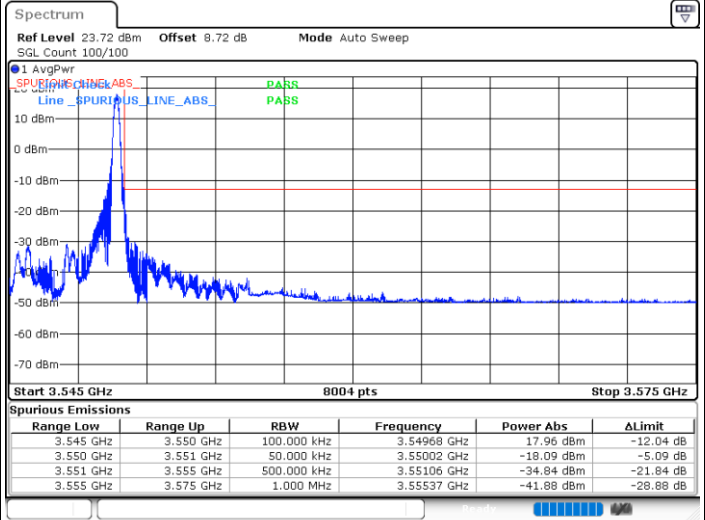
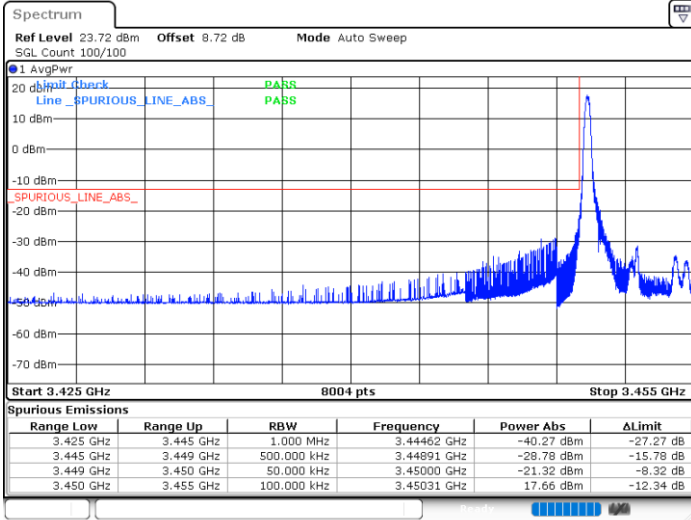


LTE Band 42 / 5MHz

64QAM

Lowest Channel / 1RB0

Highest Channel / 1RBmax

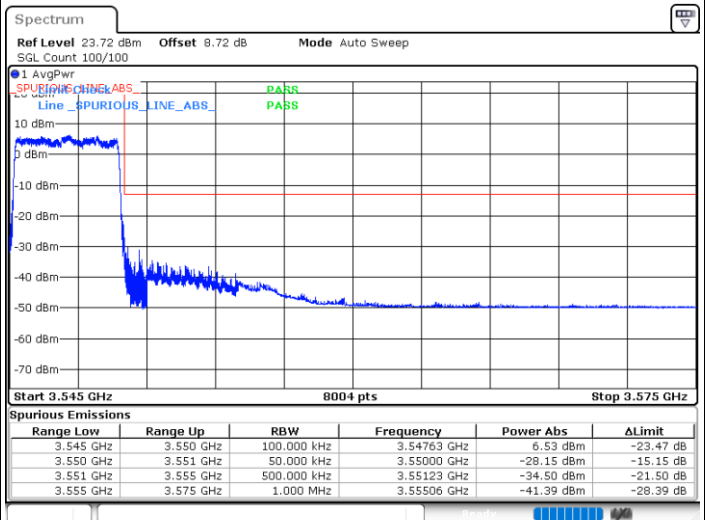
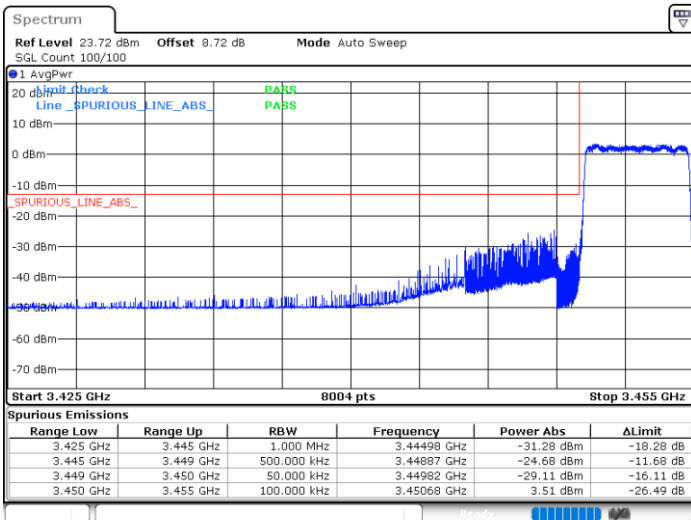


Date: 17.JUN.2024 13:17:24

Date: 17.JUN.2024 13:46:39

Lowest Channel / FullRB

Highest Channel / FullRB



Date: 17.JUN.2024 13:21:08

Date: 17.JUN.2024 13:50:23

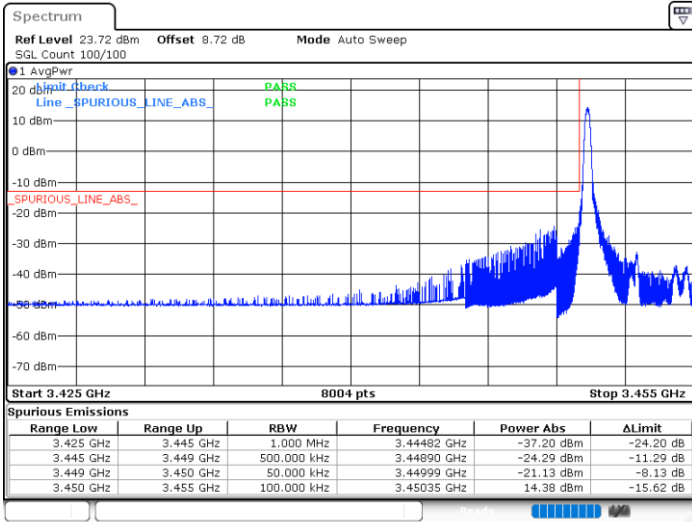


LTE Band 42 / 5MHz

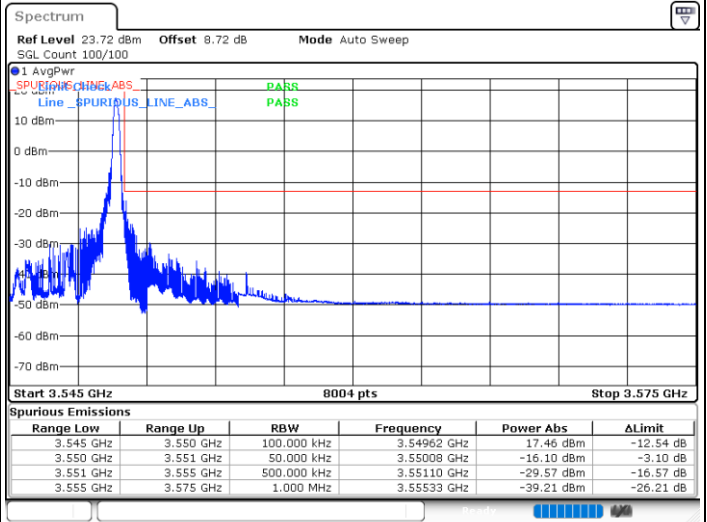
256QAM

Lowest Channel / 1RB0

Highest Channel / 1RBmax



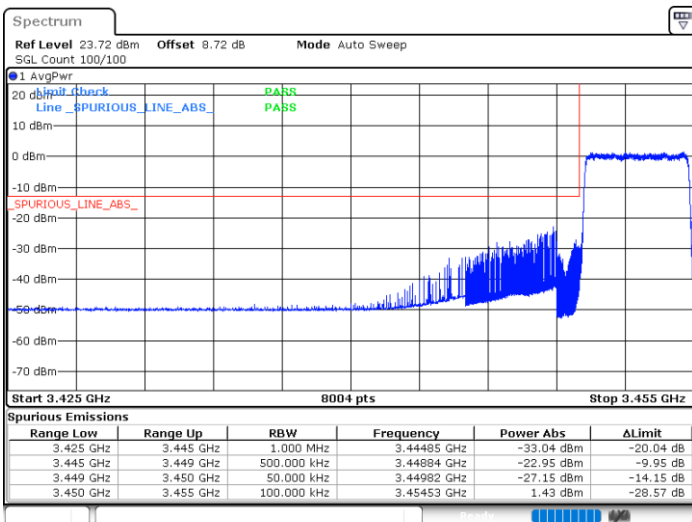
Date: 17.JUN.2024 13:18:20



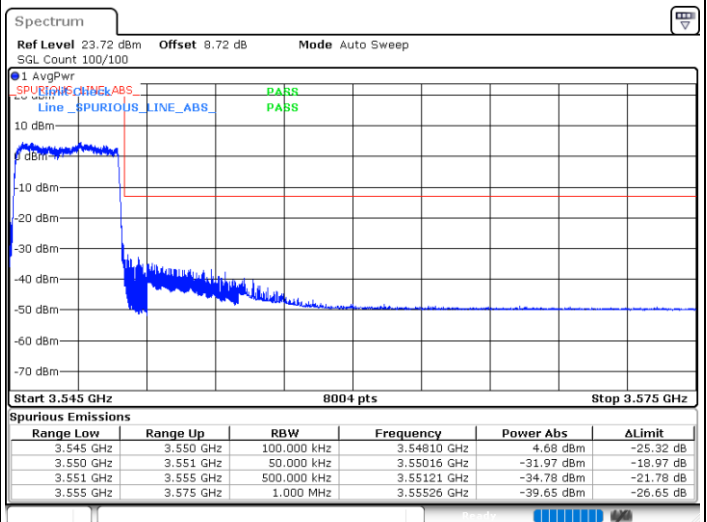
Date: 17.JUN.2024 13:47:35

Lowest Channel / FullRB

Highest Channel / FullRB



Date: 17.JUN.2024 13:22:04



Date: 17.JUN.2024 13:51:19

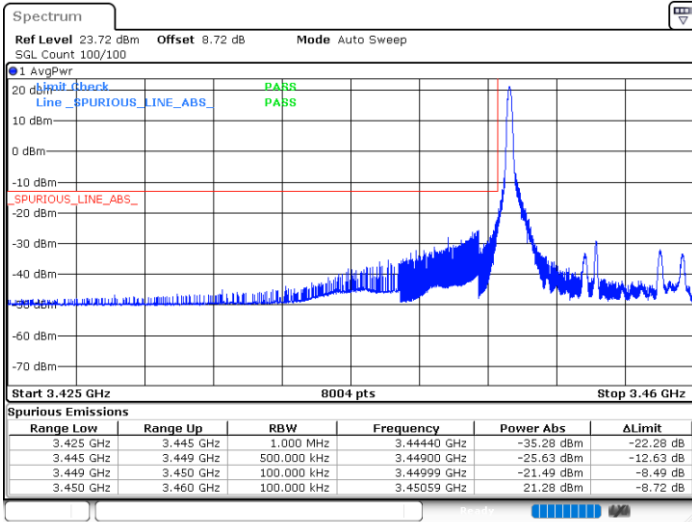


LTE Band 42 / 10MHz

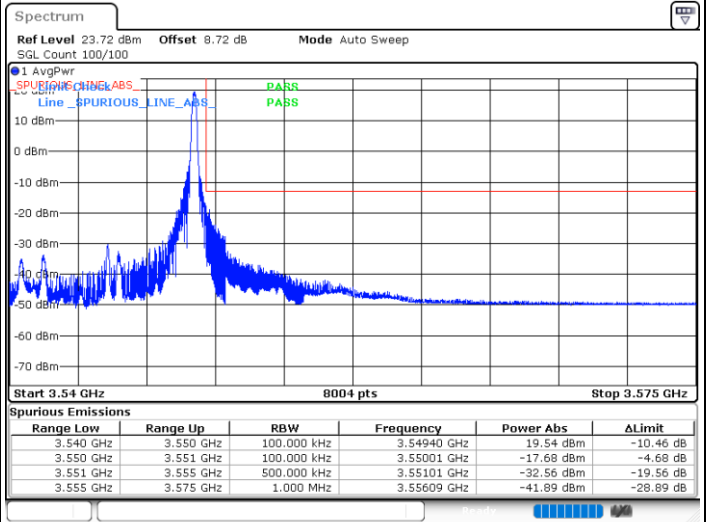
QPSK

Lowest Channel / 1RB0

Highest Channel / 1RBmax



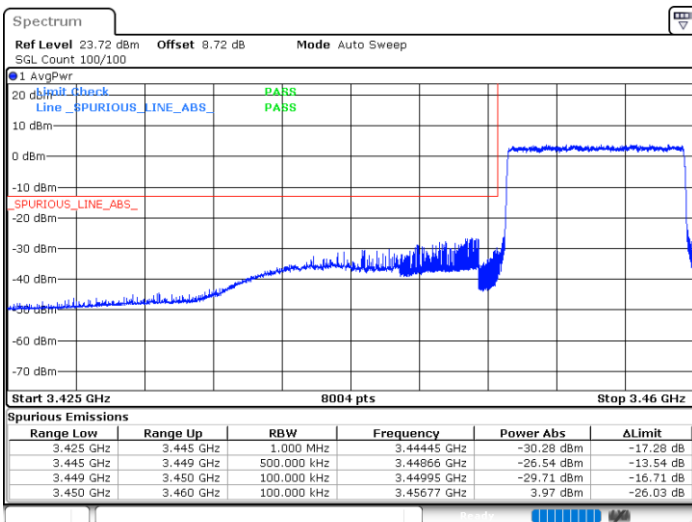
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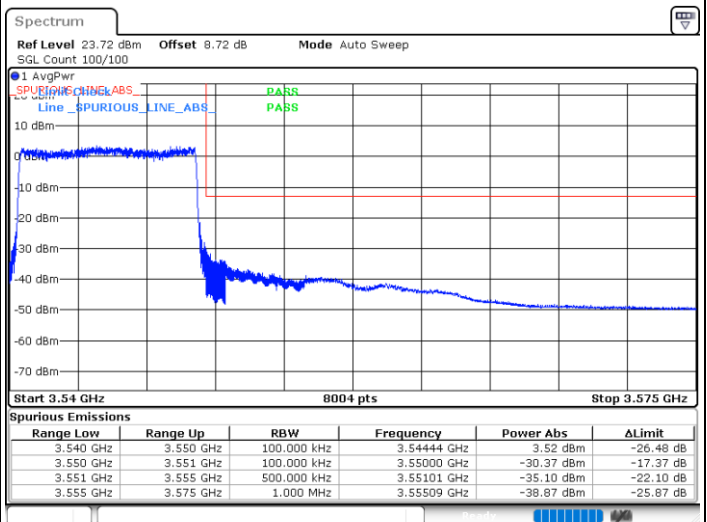
Date: 17.JUN.2024 14:14:58

Lowest Channel / FullRB

Highest Channel / FullRB



Date: 17.JUN.2024 13:58:07



Date: 17.JUN.2024 14:17:45

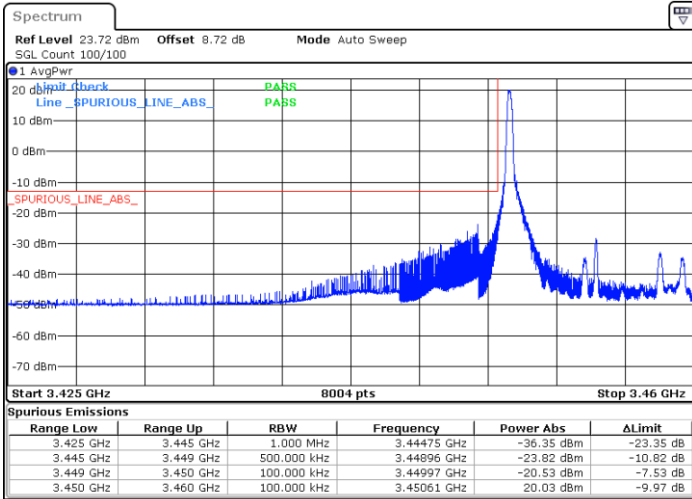


LTE Band 42 / 10MHz

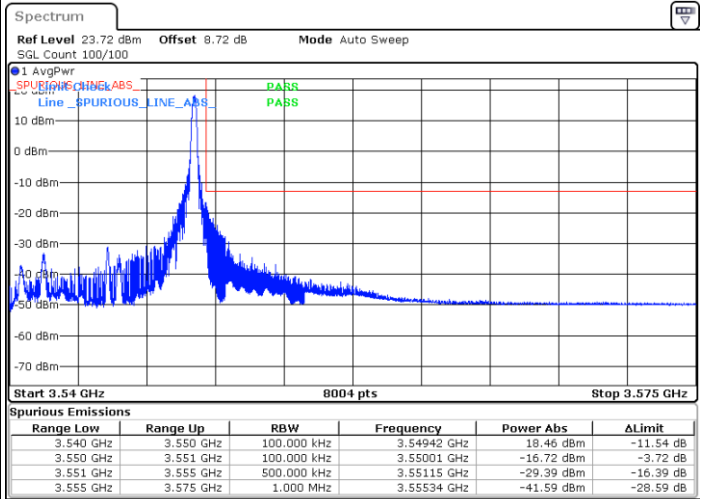
16QAM

Lowest Channel / 1RB0

Highest Channel / 1RBmax



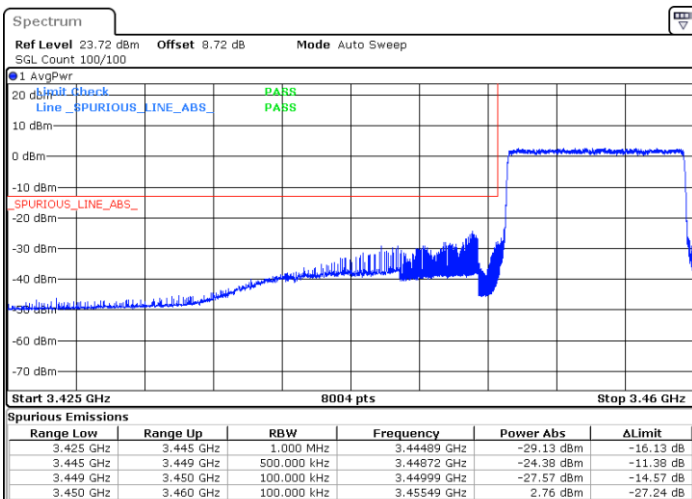
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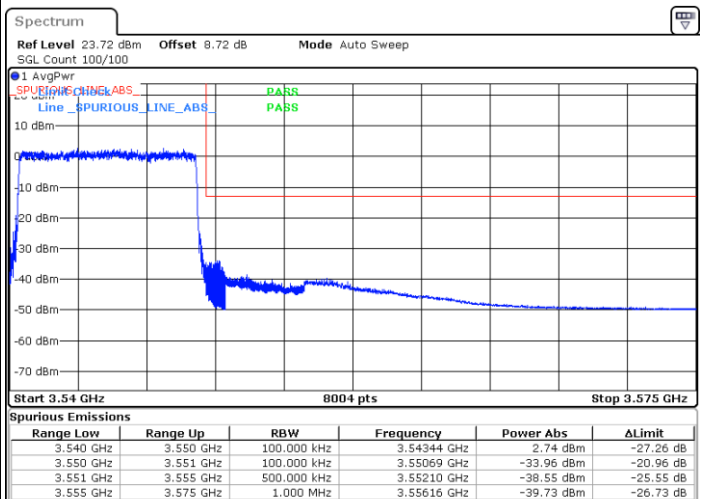
Date: 17 JUN 2024 14:15:53

Lowest Channel / FullRB

Highest Channel / FullRB



Date: 17 JUN 2024 13:59:03



Date: 17 JUN 2024 14:18:44

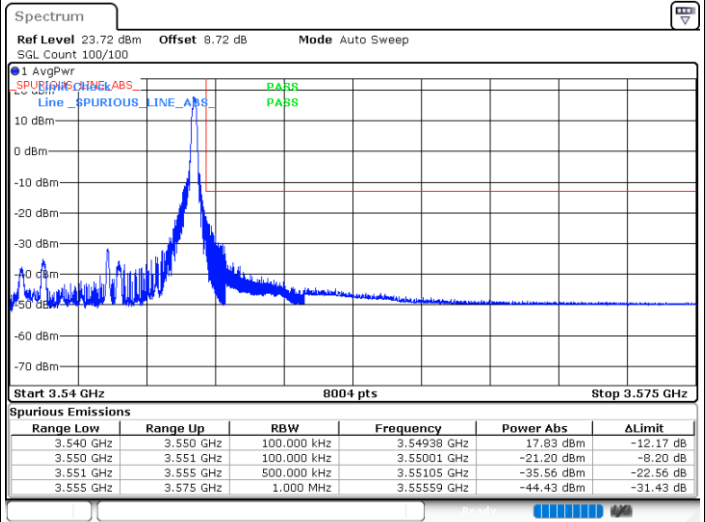
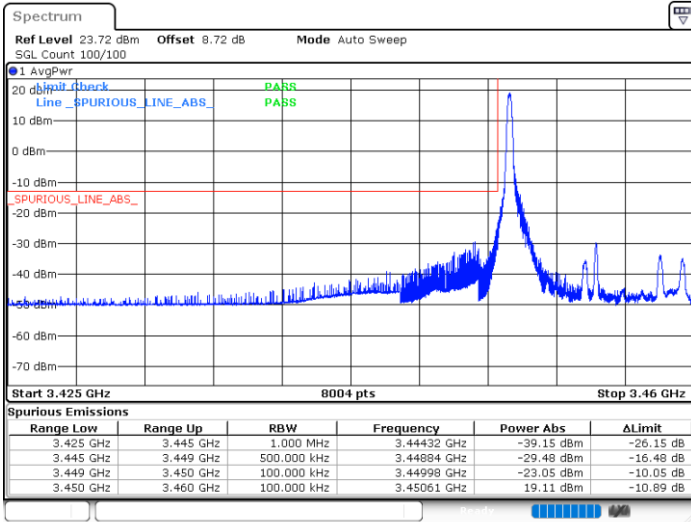


LTE Band 42 / 10MHz

64QAM

Lowest Channel / 1RB0

Highest Channel / 1RBmax

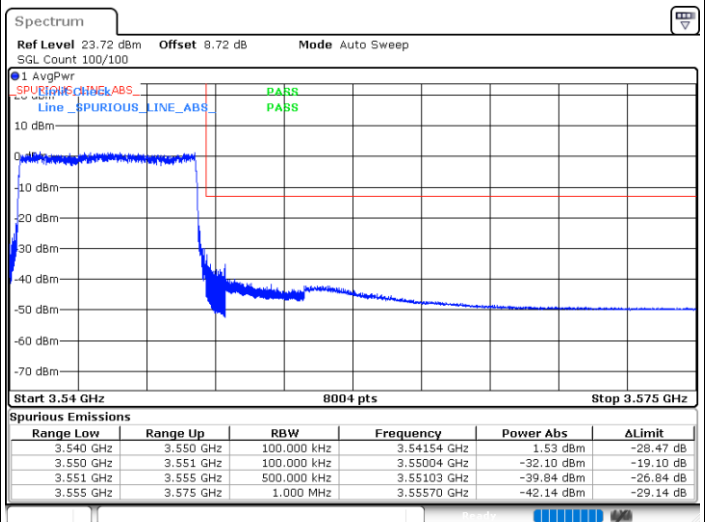
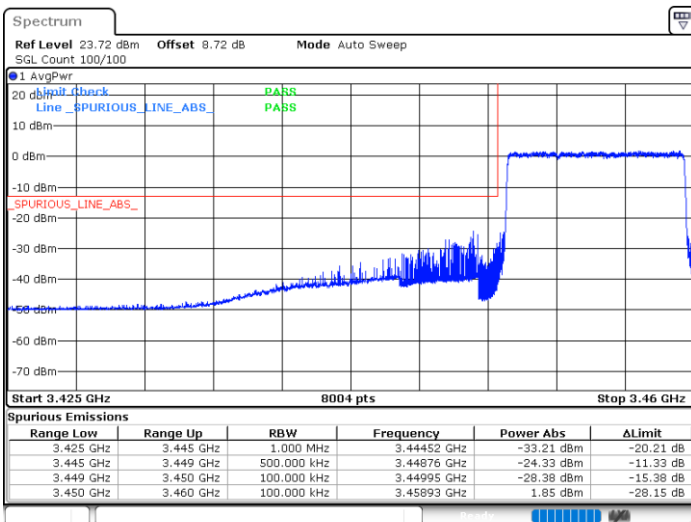


Date: 17.JUN.2024 13:56:15

Date: 17.JUN.2024 14:16:49

Lowest Channel / FullRB

Highest Channel / FullRB



Date: 17.JUN.2024 13:59:59

Date: 17.JUN.2024 14:19:40

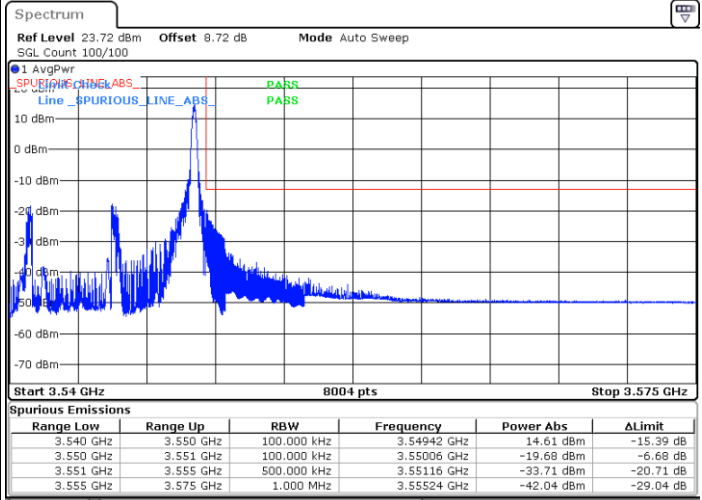
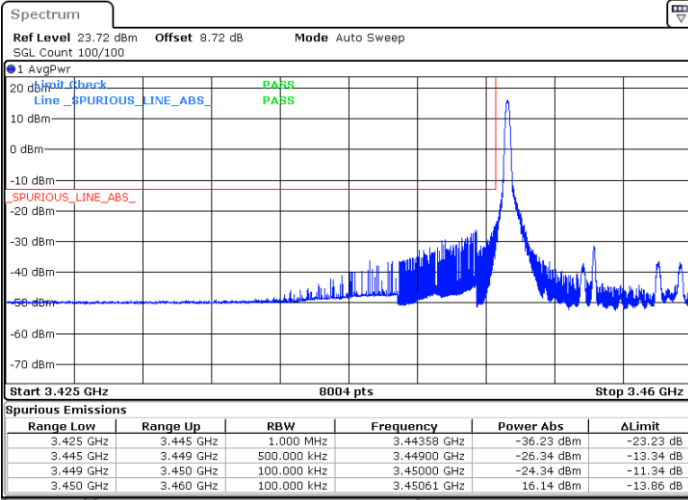


LTE Band 42 / 10MHz

256QAM

Lowest Channel / 1RB0

Highest Channel / 1RBmax

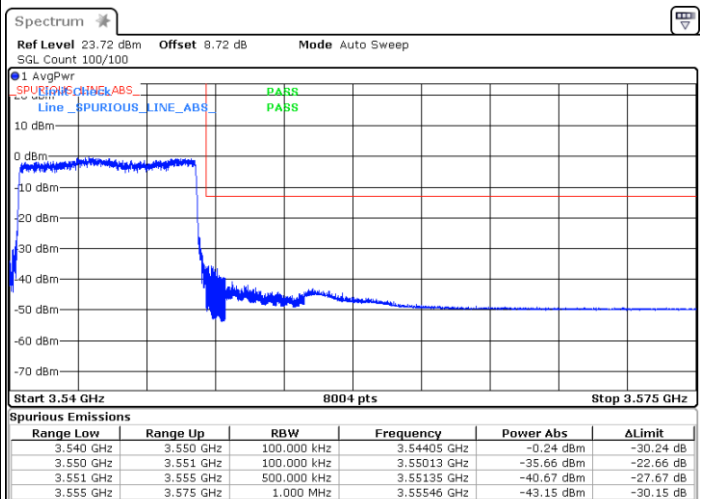
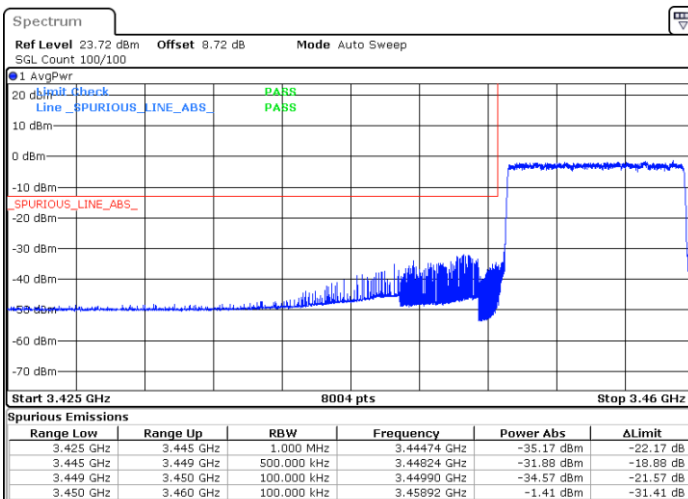


Date: 17.JUN.2024 13:57:11

Date: 17.JUN.2024 15:37:49

Lowest Channel / FullRB

Highest Channel / FullRB



Date: 17.JUN.2024 15:36:23

Date: 17.JUN.2024 15:37:10

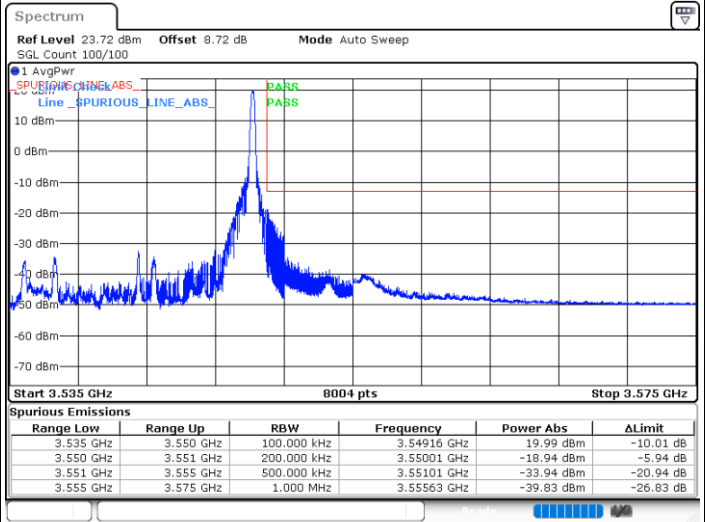
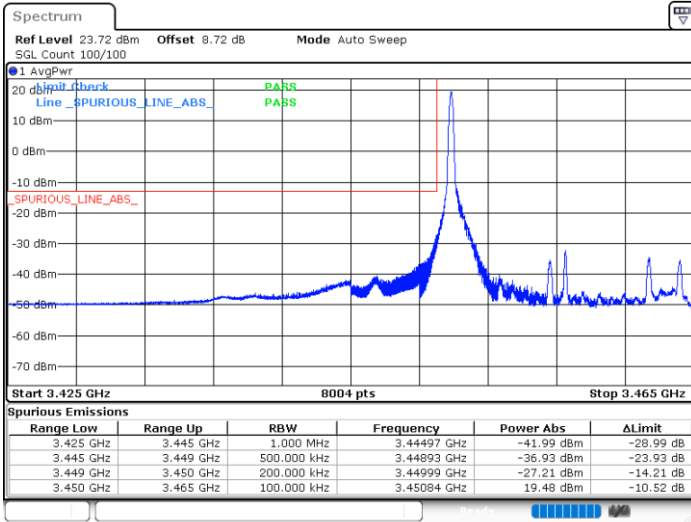


LTE Band 42 / 15MHz

QPSK

Lowest Channel / 1RB0

Highest Channel / 1RBmax

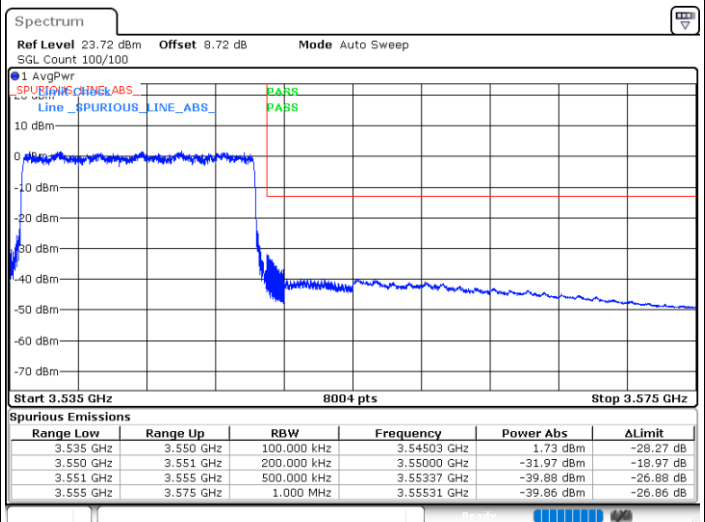
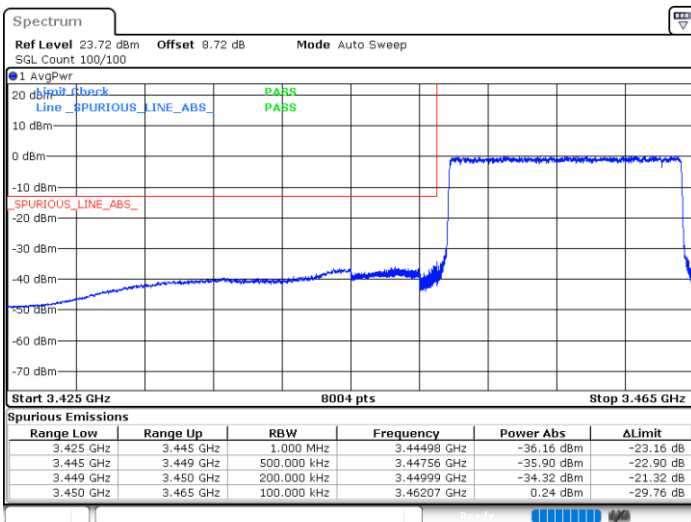


Date: 17.JUN.2024 14:23:24

Date: 17.JUN.2024 14:30:13

Lowest Channel / FullRB

Highest Channel / FullRB



Date: 17.JUN.2024 14:20:36

Date: 17.JUN.2024 14:33:00

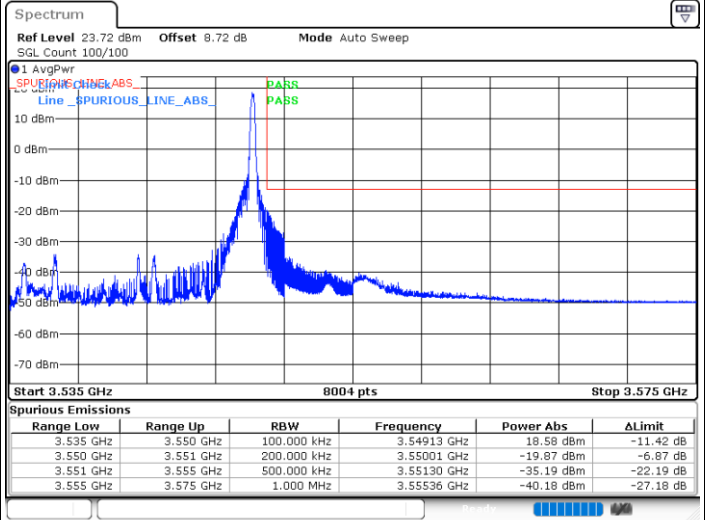
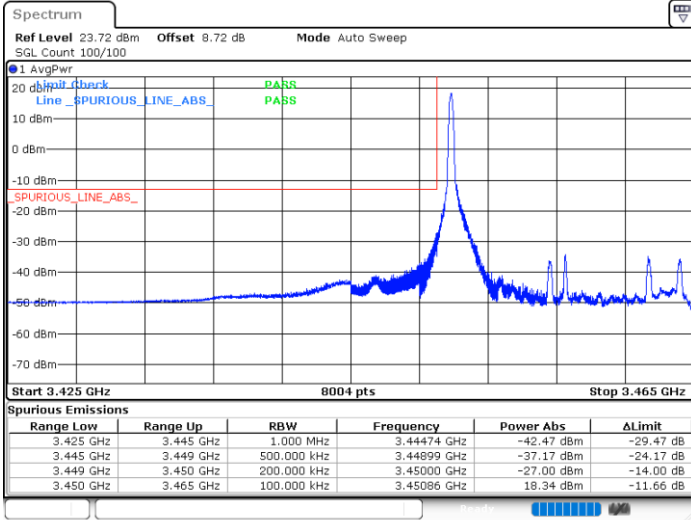


LTE Band 42 / 15MHz

16QAM

Lowest Channel / 1RB0

Highest Channel / 1RBmax

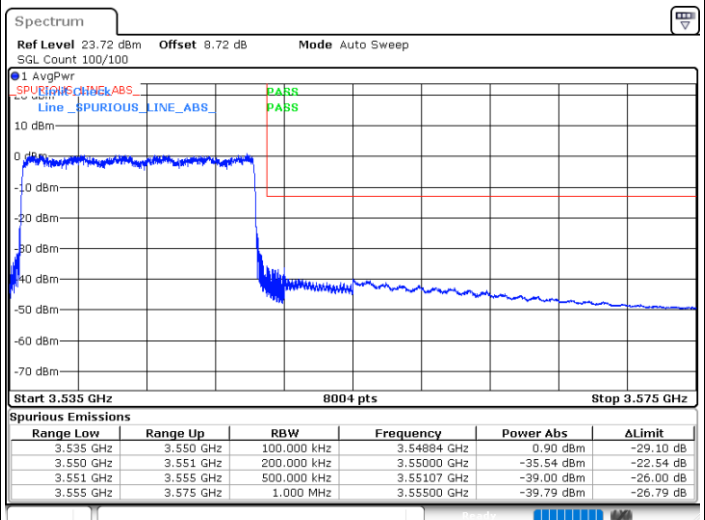
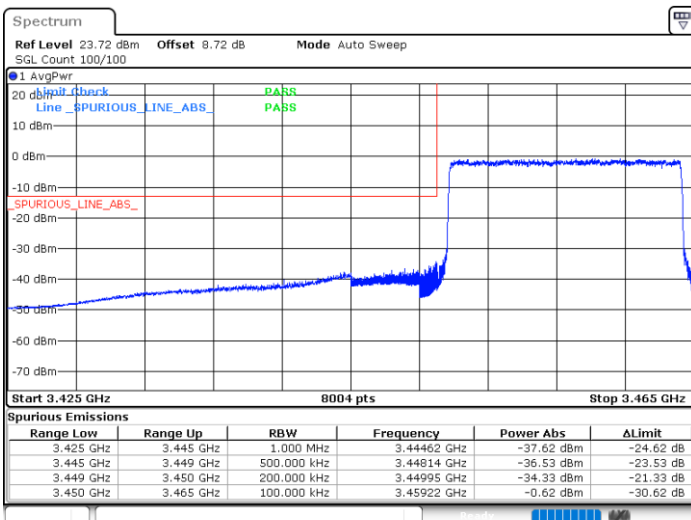


Date: 17.JUN.2024 14:24:20

Date: 17.JUN.2024 14:31:08

Lowest Channel / FullRB

Highest Channel / FullRB



Date: 17.JUN.2024 14:21:32

Date: 17.JUN.2024 14:33:56

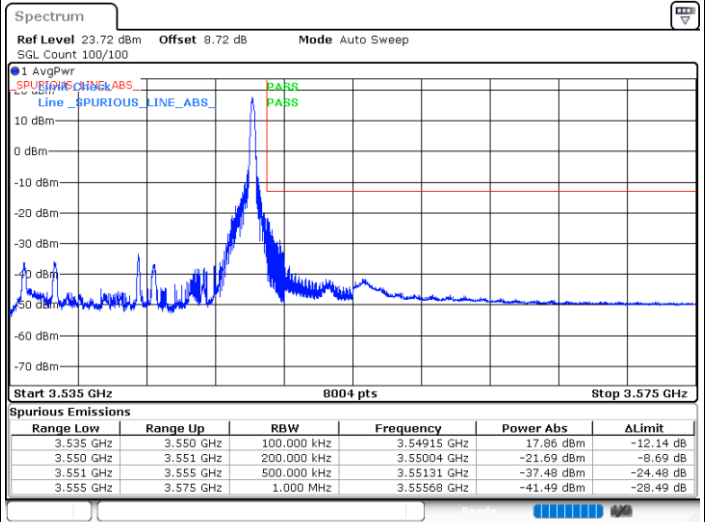
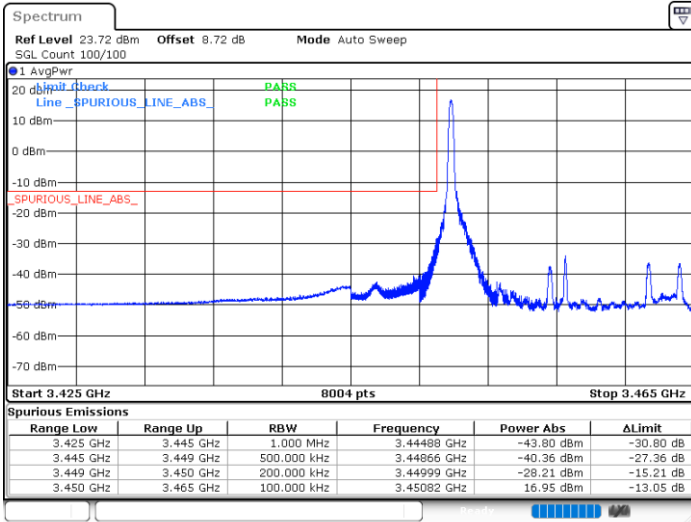


LTE Band 42 / 15MHz

64QAM

Lowest Channel / 1RB0

Highest Channel / 1RBmax

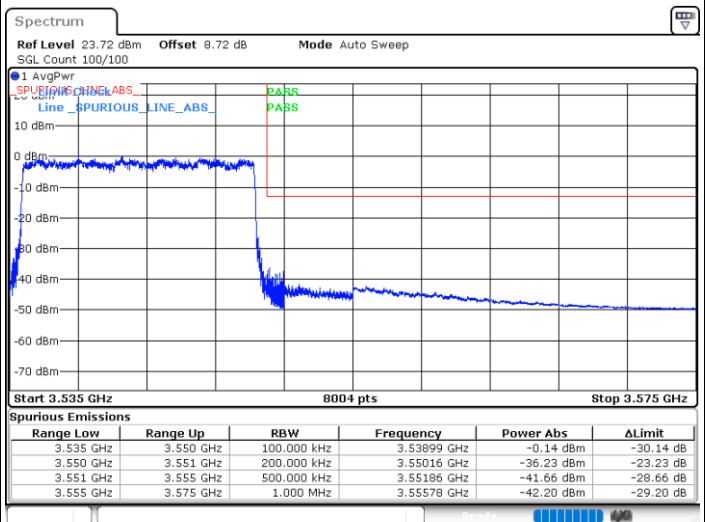
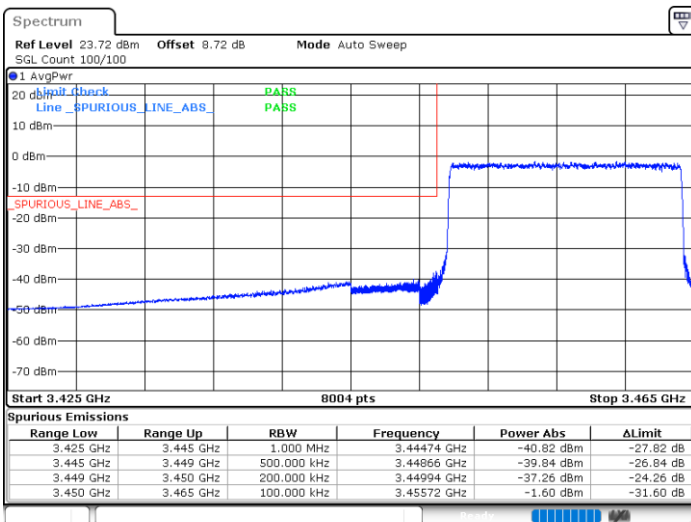


Date: 17.JUN.2024 14:25:16

Date: 17.JUN.2024 14:32:04

Lowest Channel / FullRB

Highest Channel / FullRB



Date: 17.JUN.2024 14:22:28

Date: 17.JUN.2024 14:34:51

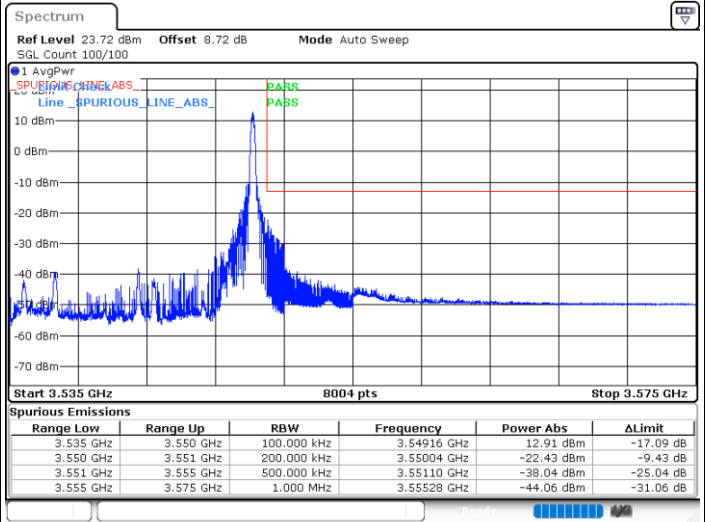
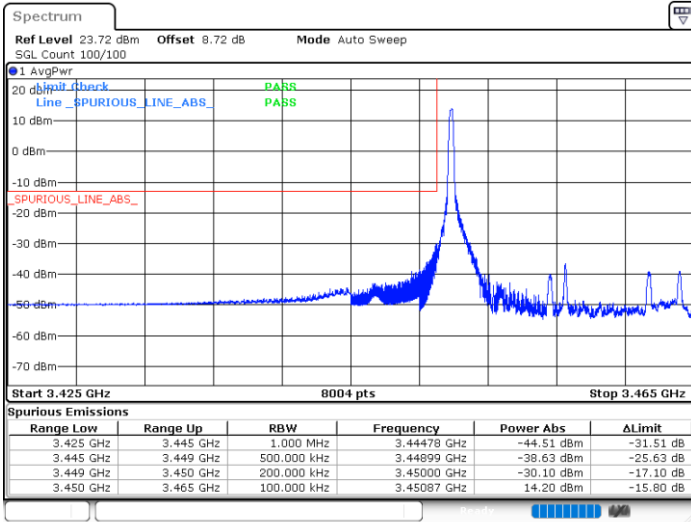


LTE Band 42 / 15MHz

256QAM

Lowest Channel / 1RB0

Highest Channel / 1RBmax

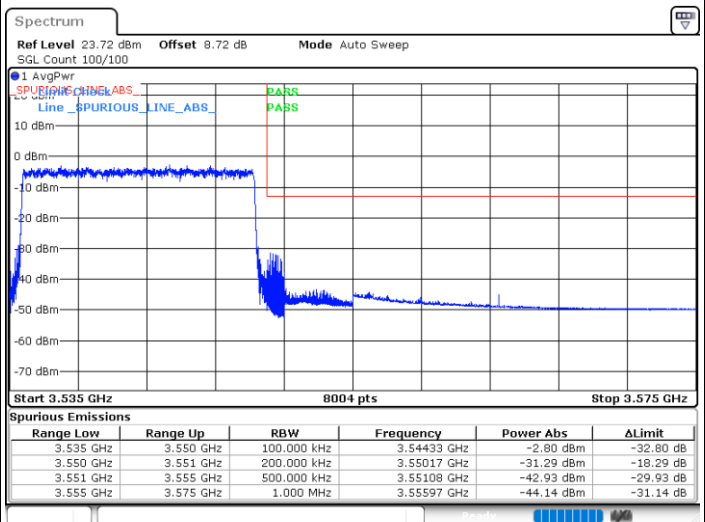
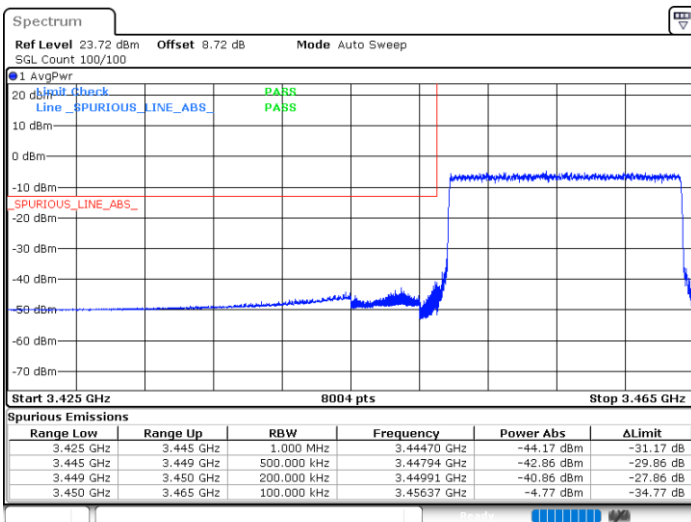


Date: 17.JUN.2024 15:30:50

Date: 17.JUN.2024 15:34:20

Lowest Channel / FullRB

Highest Channel / FullRB



Date: 17.JUN.2024 15:31:52

Date: 17.JUN.2024 15:35:09

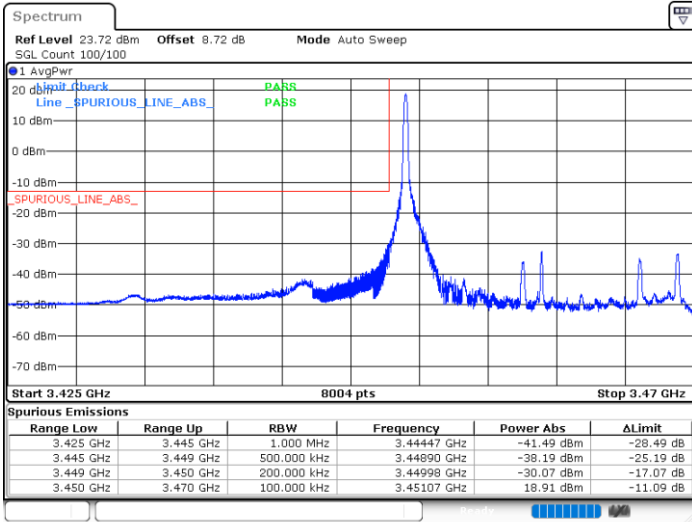


LTE Band 42 / 20MHz

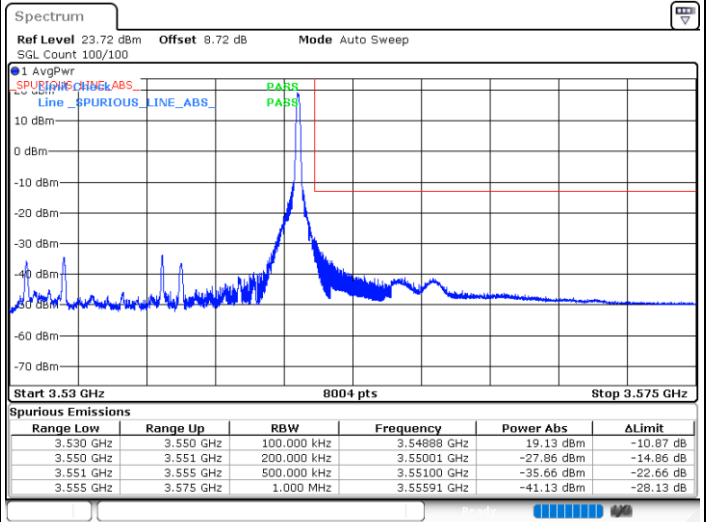
QPSK

Lowest Channel / 1RB0

Highest Channel / 1RBmax



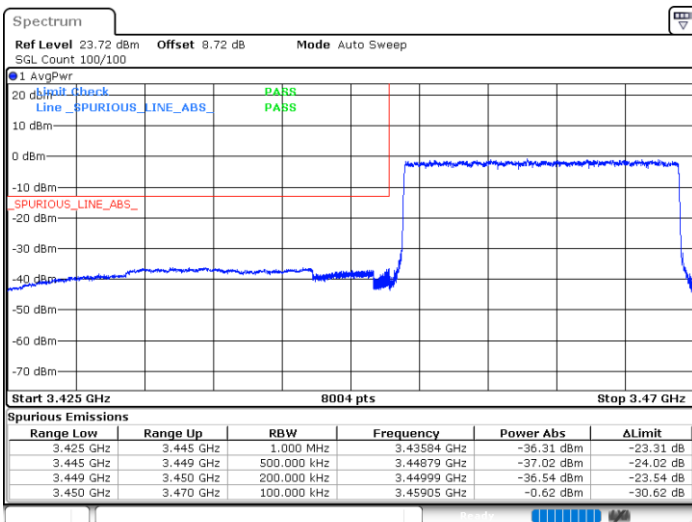
Date: 17.JUN.2024 14:38:35



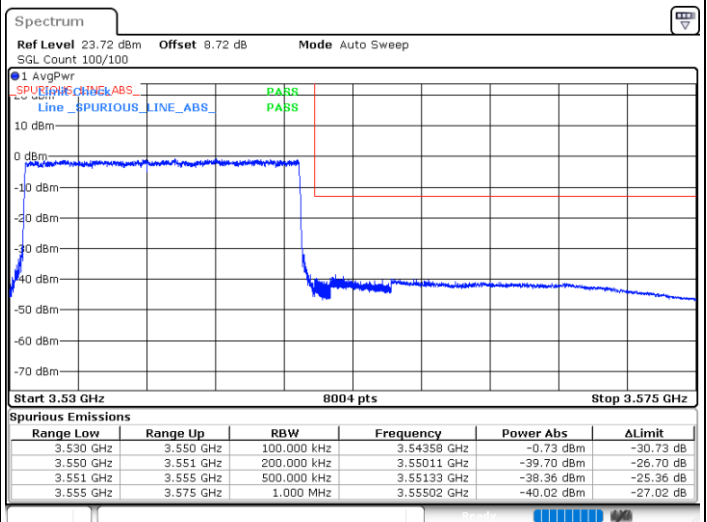
Date: 17.JUN.2024 14:45:23

Lowest Channel / FullRB

Highest Channel / FullRB



Date: 17.JUN.2024 14:35:48



Date: 17.JUN.2024 14:48:13

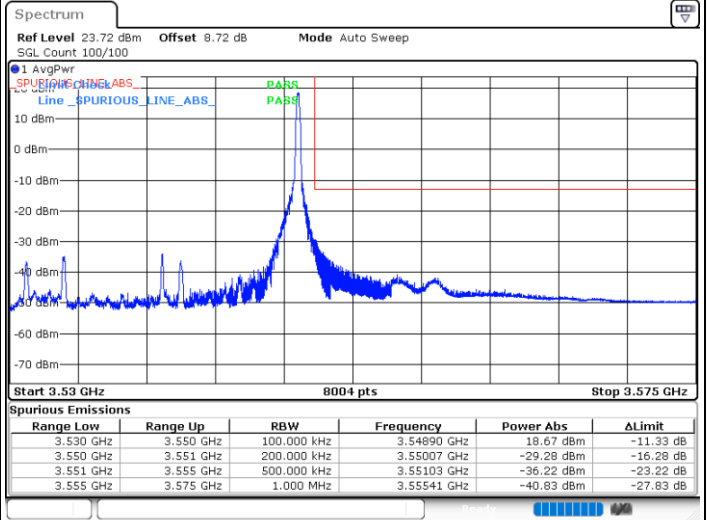
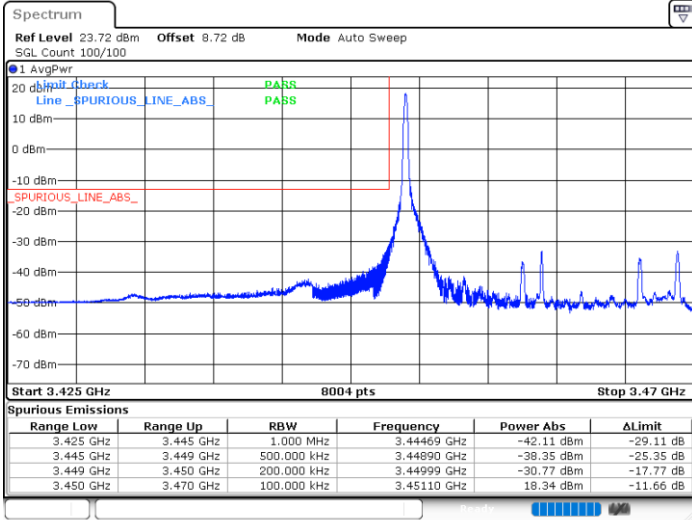


LTE Band 42 / 20MHz

16QAM

Lowest Channel / 1RB0

Highest Channel / 1RBmax

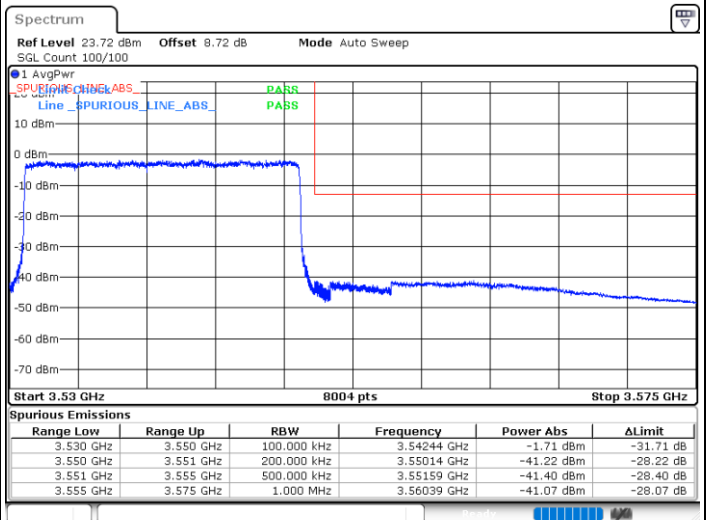
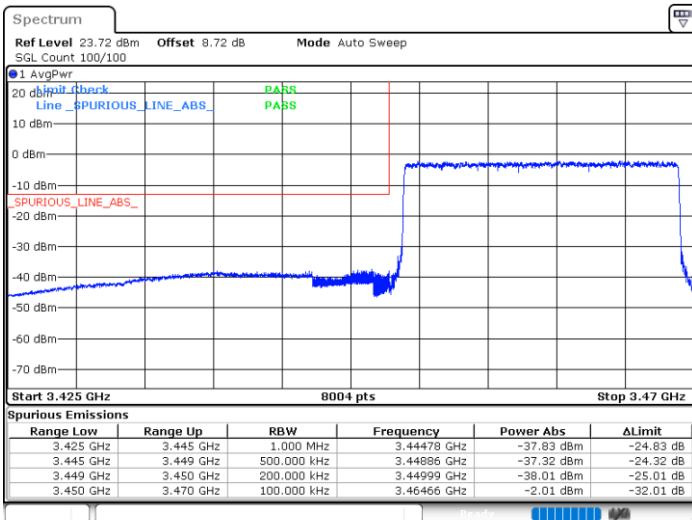


Date: 17.JUN.2024 14:39:31

Date: 17.JUN.2024 14:46:18

Lowest Channel / FullRB

Highest Channel / FullRB



Date: 17.JUN.2024 14:36:43

Date: 17.JUN.2024 14:49:09

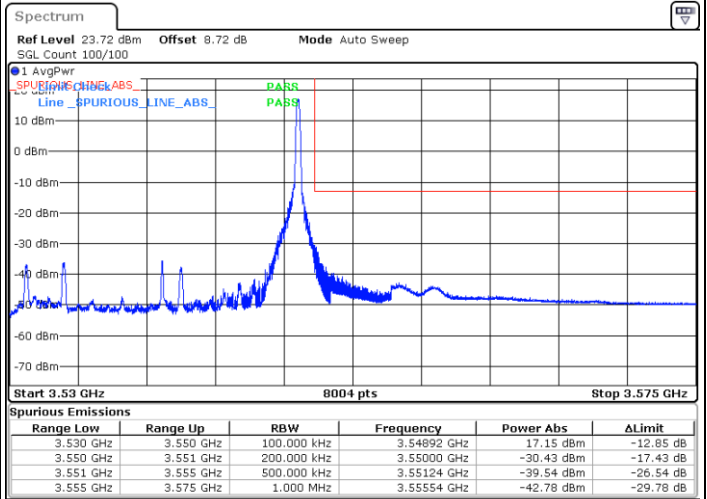
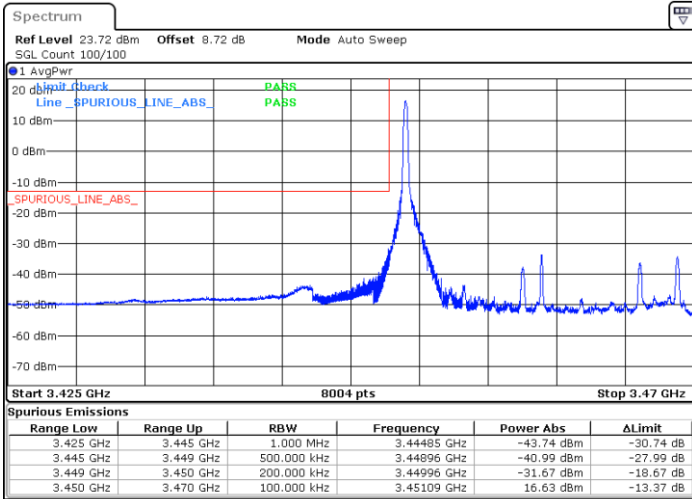


LTE Band 42 / 20MHz

64QAM

Lowest Channel / 1RB0

Highest Channel / 1RBmax

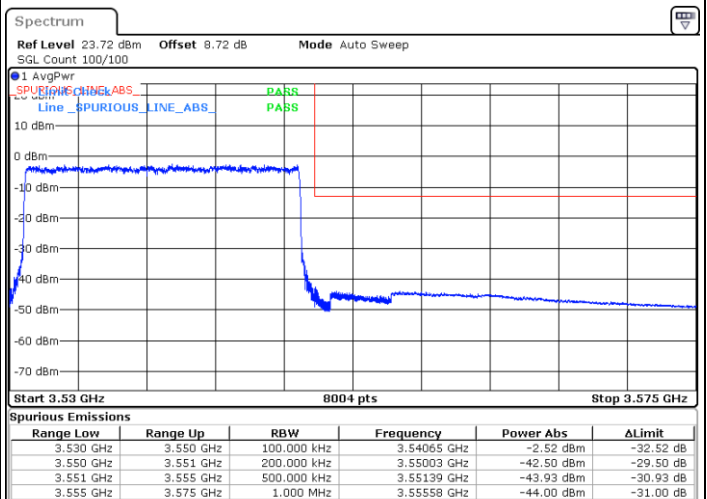
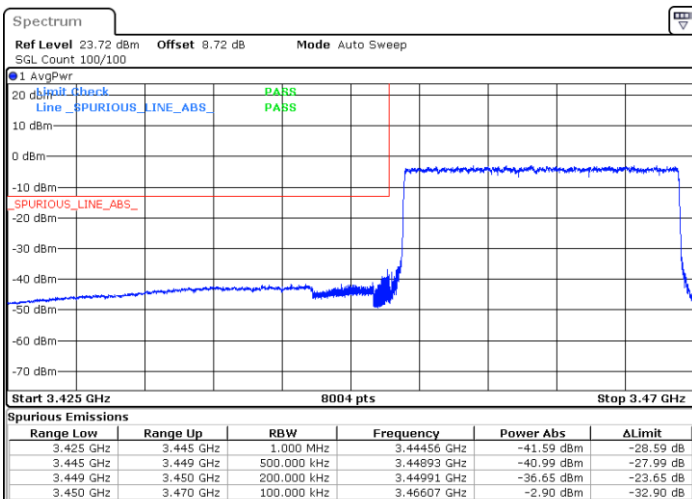


Date: 17.JUN.2024 14:40:26

Date: 17.JUN.2024 14:47:14

Lowest Channel / FullRB

Highest Channel / FullRB



Date: 17.JUN.2024 14:37:40

Date: 17.JUN.2024 14:50:05

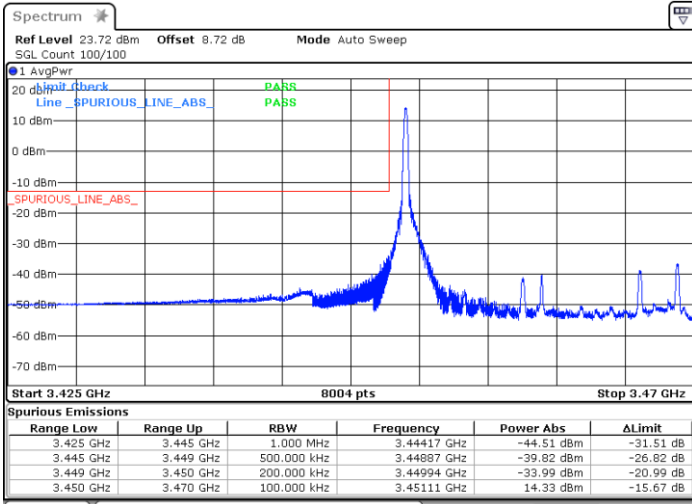


LTE Band 42 / 20MHz

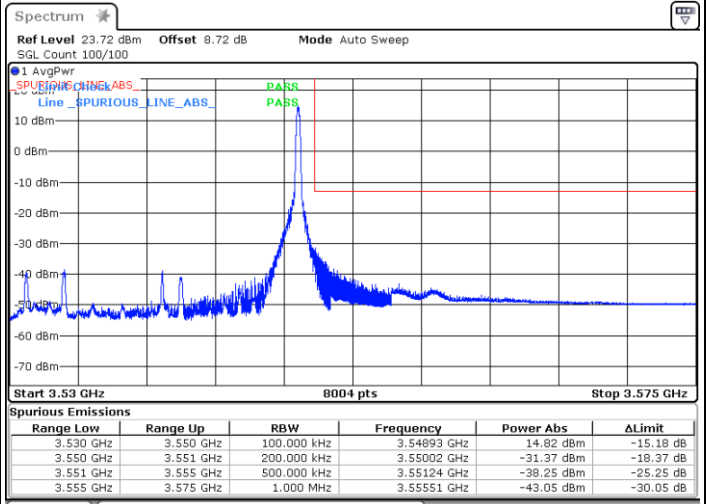
256QAM

Lowest Channel / 1RB0

Highest Channel / 1RBmax



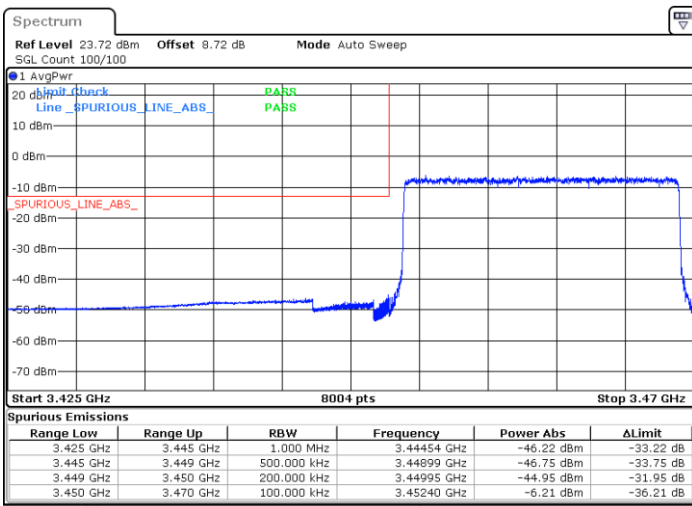
Date: 17.JUN.2024 15:27:28



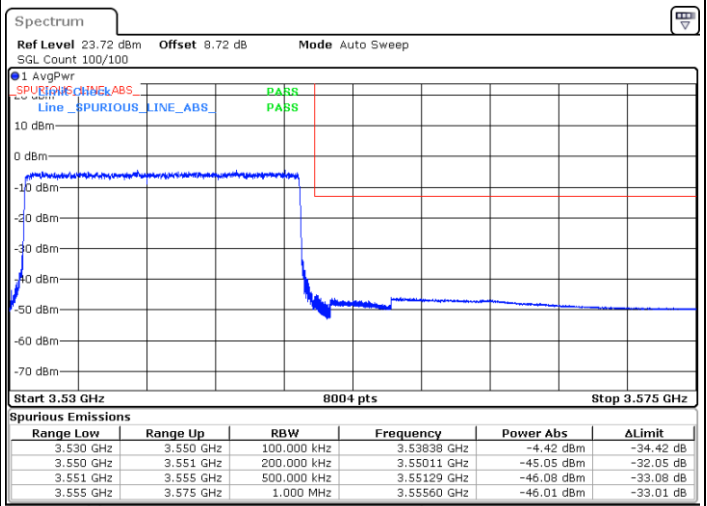
Date: 17.JUN.2024 15:25:13

Lowest Channel / FullRB

Highest Channel / FullRB



Date: 17.JUN.2024 15:28:21



Date: 17.JUN.2024 15:22:58



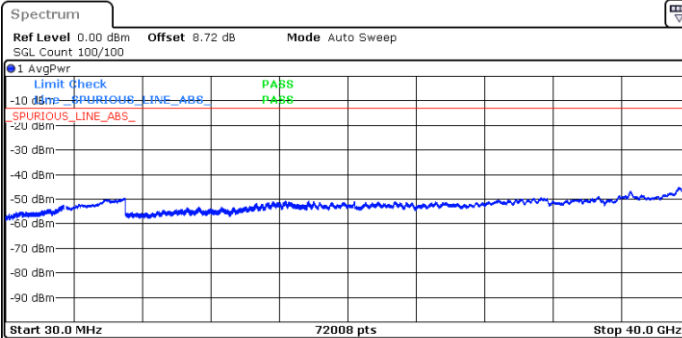
# Conducted Spurious Emission

## LTE Band 42/ 5MHz

### QPSK / 1RB0

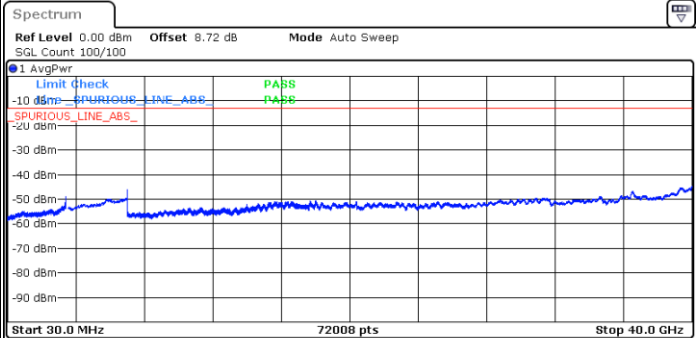
#### Lowest Channel

#### Middle Channel



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	931.68332 MHz	-55.16 dBm	-42.16 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.41015 GHz	-52.35 dBm	-39.35 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.99829 GHz	-49.49 dBm	-36.49 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.91957 GHz	-54.52 dBm	-41.52 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.30104 GHz	-53.22 dBm	-40.22 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.34969 GHz	-50.84 dBm	-37.84 dB
18.000 GHz	27.000 GHz	1.000 MHz	20.39807 GHz	-50.95 dBm	-37.95 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.99946 GHz	-44.67 dBm	-31.67 dB

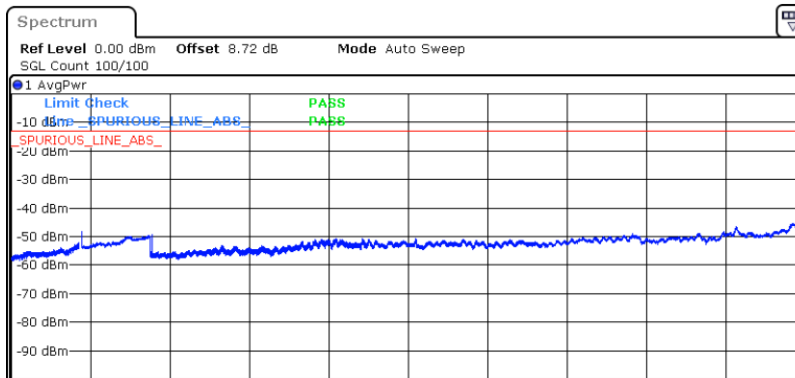
Date: 17.JUN.2024 13:14:33



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	973.35165 MHz	-55.08 dBm	-42.08 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.42348 GHz	-48.97 dBm	-35.97 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.99487 GHz	-46.17 dBm	-33.17 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.22928 GHz	-54.48 dBm	-41.48 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.99138 GHz	-52.07 dBm	-39.07 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.69588 GHz	-50.83 dBm	-37.83 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.03459 GHz	-50.68 dBm	-37.68 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.99513 GHz	-44.75 dBm	-31.75 dB

Date: 17.JUN.2024 13:42:31

#### Highest Channel



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	952.03297 MHz	-55.13 dBm	-42.13 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.42348 GHz	-52.11 dBm	-39.11 dB
3.575 GHz	7.000 GHz	1.000 MHz	3.57671 GHz	-48.31 dBm	-35.31 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.09093 GHz	-49.30 dBm	-36.30 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.64521 GHz	-53.21 dBm	-40.21 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.37483 GHz	-50.76 dBm	-37.76 dB
18.000 GHz	27.000 GHz	1.000 MHz	20.38738 GHz	-50.83 dBm	-37.83 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.99838 GHz	-44.62 dBm	-31.62 dB

Date: 17.JUN.2024 13:43:51