FCC RF Test Report

FCC ID	:	UZ7EM45B2
EQUIPMENT	:	Enterprise Mobile
BRAND NAME	:	Zebra
MODEL NAME	:	EM45B2
APPLICANT	:	Zebra Technologies Corporation 3 Overlook Point, Lincolnshire, IL 60069 USA
MANUFACTURER	:	Zebra Technologies Corporation 3 Overlook Point, Lincolnshire, IL 60069 USA
STANDARD	:	47 CFR Part 27 Subpart Q
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Jul. 12, 2024 ~ Aug. 13, 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.

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

ACCREDITED
Cert #5145.02

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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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG460508F	Rev. 01	Initial issue of report	Sep. 11, 2024

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	Report Only	-
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	—	Report Only	-
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 32.92 dB at 14124.00 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 Product Feature of Equipment Under Test

Product Feature	
Equipment	Enterprise Mobile
Brand Name	Zebra
Model Name	EM45B2
FCC ID	UZ7EM45B2
IMEI Code	Conducted: 350854420028793/350854420029353 Radiation: 350854420030211/350854420030229
HW Version	EV2.5
SW Version	13-32-02.00-TG-U06-STD-ATH-04
MFD	02AUG24
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.

Specification of Accessory				
Battery	**Brand Name**	Zebra	**Model**	BT-000501
			Part Number	BT-000501-2000

Supported Unit used in test configuration and system				
AC Adapter 1 (Type C Wall Charger 1)	**Brand Name**	Zebra	**Model**	SAWA-102-22520A
			Part Number	PWR-WUA5V45W1US
AC Adapter 2 (Type A Wall Charger 2)	**Brand Name**	Zebra	**Model**	SAWA-65-20005A
			Part Number	PWR-WUA5V12W0US
Earphone 1 (Wired headset USB-C)	**Brand Name**	Zebra	**Part Number**	HDST-USBC-PTT1-01
Earphone 2 (Rugged Bluetooth Headset)	**Brand Name**	Zebra	**Part Number**	HS3100-OTH
Earphone 3 (3.5mm PTT Headset)	**Brand Name**	Zebra	**Part Number**	HDST-35MM-PTT1-02
Earphone 4 (Rugged Headset)	**Brand Name**	Zebra	**Part Number**	HS2100-OTH
3.5mm to 3.5mm audio connector	**Brand Name**	Zebra	**Part Number**	CBL-HS2100-3MS1-01
Type C-Audio Cable (Type C to 3.5mm)	**Brand Name**	Zebra	**Part Number**	ADP-USBC-35MM1-01
USB Cable 1 (USB-C to C Cable)	**Brand Name**	Zebra	**Part Number**	CBL-EC5X-USBC3A-01
USB Cable 2 (USB-A to C Cable)	**Brand Name**	Zebra	**Part Number**	CBL-TC5X-USBC2A-01
EM45 Protective Case	**Brand Name**	Zebra	Part Number	SG-EM45EXO1-01

1.2 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	LTE Band 42 : 22.64 dBm
Antenna Gain	LTE Band 42 : 1.08 dBi for Ant.4
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

1.3 Modification of EUT

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

1.4 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	0.2286	4M49G7D	0.2009	4M51W7D
10	3455 ~ 3545	0.2286	9M07G7D	0.2004	9M05W7D
15	3457.5 ~ 3542.5	0.2317	13M5G7D	0.2014	13M5W7D
20	3460 ~ 3540	0.2355	17M9G7D	0.2046	17M9W7D

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

1.5 Testing Site

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 03CH04-KS	CN1257	314309

1.6 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	SPORTON	FCC LTE_Ver2.0 Auto_china_210503	2.0
2.	03CH04-KS	AUDIX	E3	210616

1.7 Applied Standards

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

- 47 CFR 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

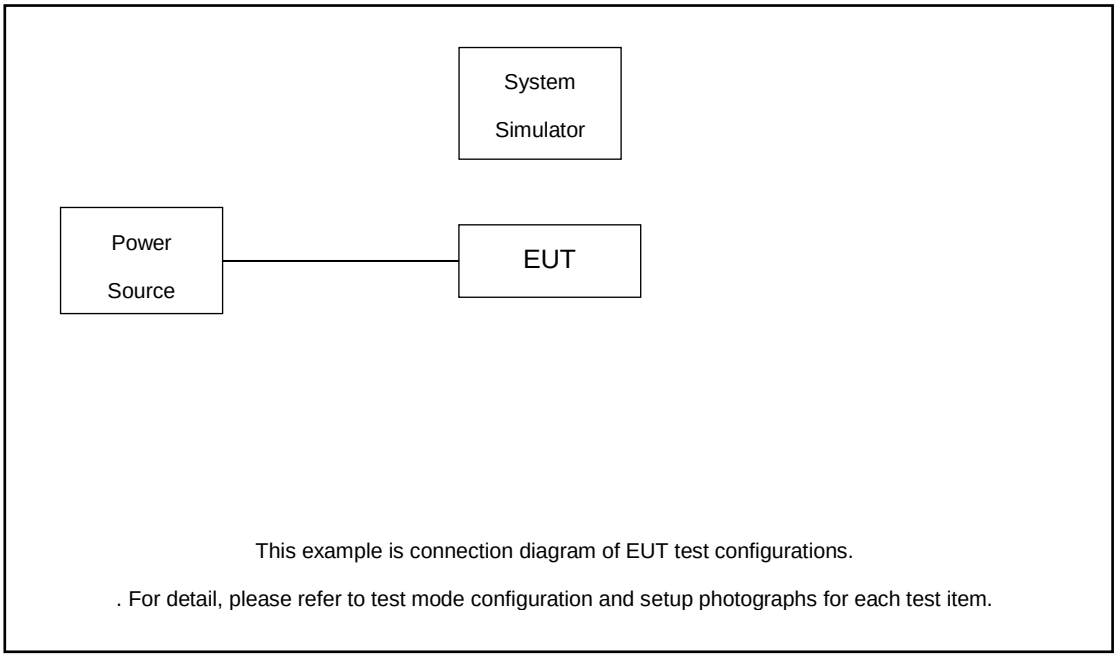
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (Y 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, Partial RB, 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, Partial RB, Full RB	L, M, H
26dB and 99% Bandwidth	LTE Band 42	5M, 10M, 15M, 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	20M	QPSK	1RB	L, H
Radiated Spurious Emission	LTE Band 42	Worst case from maximum power			L, M, H

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.

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.	Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

Offset(dB) = RF cable loss(dB).

= 6.5 (dB)

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

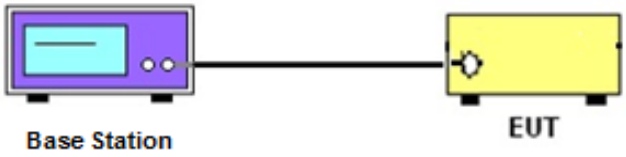
3 Conducted Test Items

3.1 Measuring Instruments

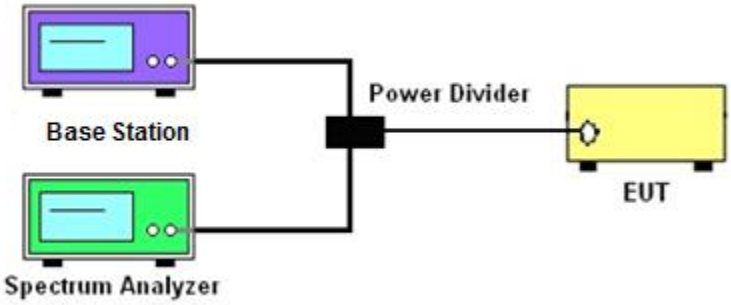
See list of measuring instruments of this test report.

3.2 Test Setup

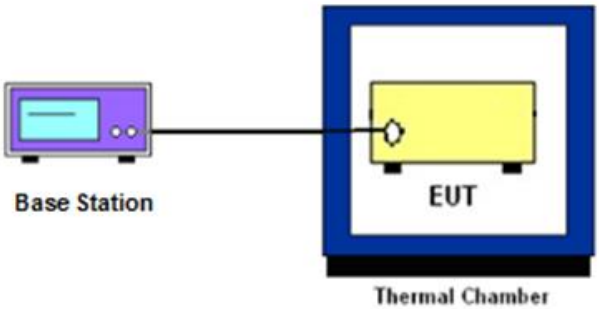
3.2.1 Conducted Output Power



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 ≥ 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 ≥ 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 30MHz up to a frequency including its 10th 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°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.

3.10.3 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±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

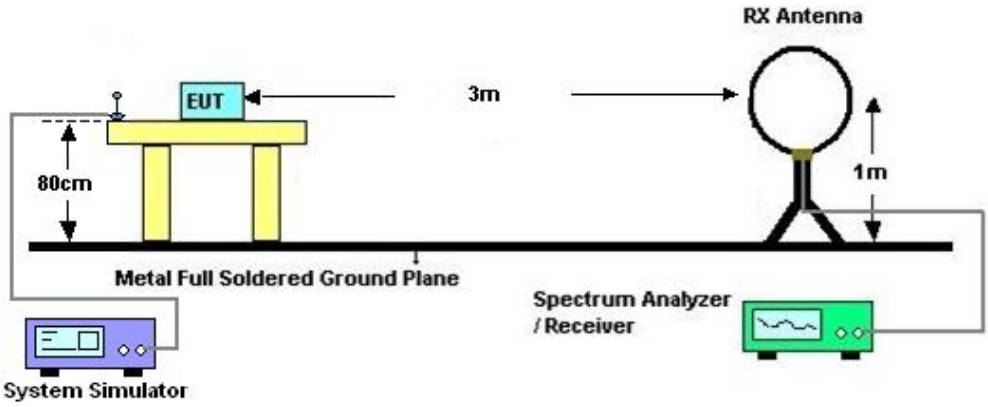
4 Radiated Test Items

4.1 Measuring Instruments

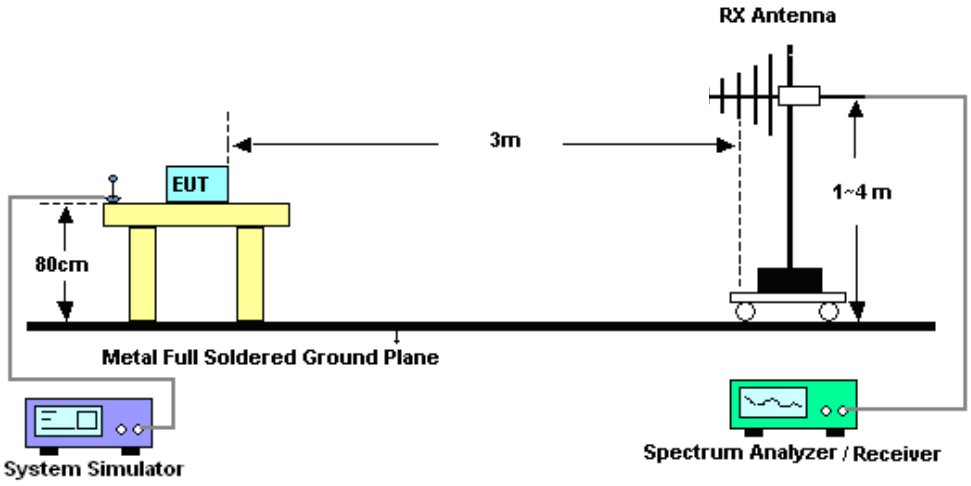
See list of measuring instruments of this test report.

4.2 Test Setup

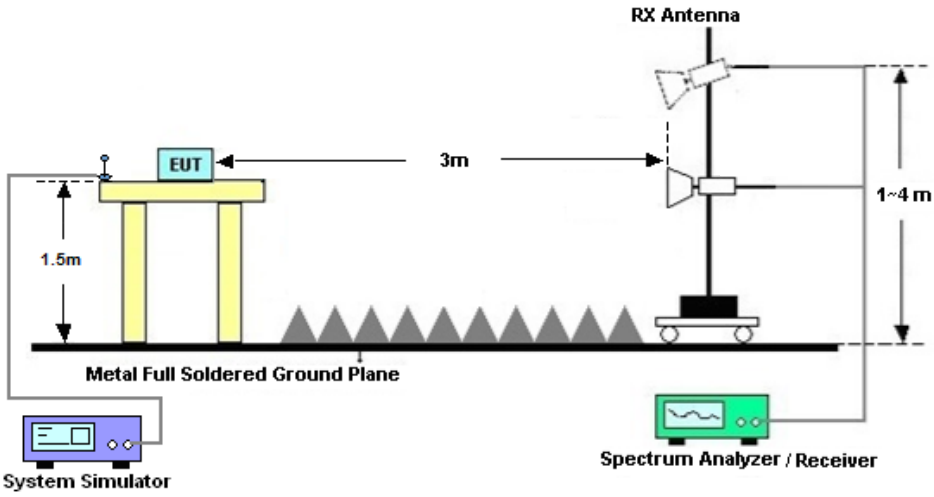
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission Measurement

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 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.
   EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
   ERP (dBm) = 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	Jul. 12, 2024~ Jul. 17, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Jul. 12, 2024~ Jul. 17, 2024	NCR	Conducted (TH01-KS)
Temperature &humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Jul. 12, 2024~ Jul. 17, 2024	Jul. 03, 2025	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 11, 2023	Jul. 16, 2024~ Aug. 13, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11 2023	Jul. 16, 2024~ Aug. 13, 2024	Sep. 10, 2024	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	59913	30MHz-1GHz	Aug. 18, 2023	Jul. 16, 2024~ Aug. 13, 2024	Aug. 17, 2025	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 23, 2023	Jul. 16, 2024~ Aug. 13, 2024	Oct. 22, 2024	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 27, 2024	Jul. 16, 2024~ Aug. 13, 2024	Jan. 26, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	413740	9KHz-1GHz	Jan. 03, 2024	Jul. 16, 2024~ Aug. 13, 2024	Jan. 02, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM18G40GA	060728	18~40GHz	Jan. 02, 2024	Jul. 16, 2024~ Aug. 13, 2024	Jan. 01, 2025	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18GA	060840	1Ghz-18Ghz	Oct. 11, 2023	Jul. 16, 2024~ Aug. 13, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
Amplifier	EM	EM01G18GA	060892	1Ghz-18Ghz	Oct. 11, 2023	Jul. 16, 2024~ Aug. 13, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jul. 16, 2024~ Aug. 13, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jul. 16, 2024~ Aug. 13, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jul. 16, 2024~ Aug. 13, 2024	NCR	Radiation (03CH04-KS)

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	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Peak to Average Ratio	±0.50 dB
Frequency Stability	±0.04 ppm

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.83 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.83 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.82 dB

---------- THE END ----------

Appendix A. Test Results of Conducted Test

Test Engineer :	Simle Wang	Temperature :	22~23℃
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and EIRP

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			
Frequency (MHz)				3460	3500	3540	L	M	H
20	QPSK	1	0	22.54	22.64	22.59	0.2301	0.2355	0.2328
20	QPSK	1	99	22.60	22.63	22.54	0.2333	0.2350	0.2301
20	QPSK	100	0	21.65	21.76	21.70	0.1875	0.1923	0.1897
20	16QAM	1	0	22.02	22.01	22.03	0.2042	0.2037	0.2046
20	64QAM	1	0	20.72	20.74	20.67	0.1514	0.1521	0.1496
20	256QAM	1	0	17.63	17.49	17.62	0.0743	0.0719	0.0741
Channel				42165	42590	43015	EIRP(W)		
Frequency (MHz)				3457.5	3500	3542.5	L	M	H
15	QPSK	1	0	22.49	22.57	22.44	0.2275	0.2317	0.2249
15	16QAM	1	0	21.95	21.92	21.96	0.2009	0.1995	0.2014
Channel				42140	42590	43040	EIRP(W)		
Frequency (MHz)				3455	3500	3545	L	M	H
10	QPSK	1	0	22.42	22.51	22.49	0.2239	0.2286	0.2275
10	16QAM	1	0	21.94	21.92	21.92	0.2004	0.1995	0.1995
Channel				42115	42590	43065	EIRP(W)		
Frequency (MHz)				3452.5	3500	3547.5	L	M	H
5	QPSK	1	0	22.49	22.51	22.48	0.2275	0.2286	0.2270
5	16QAM	1	0	21.89	21.95	21.94	0.1982	0.2009	0.2004

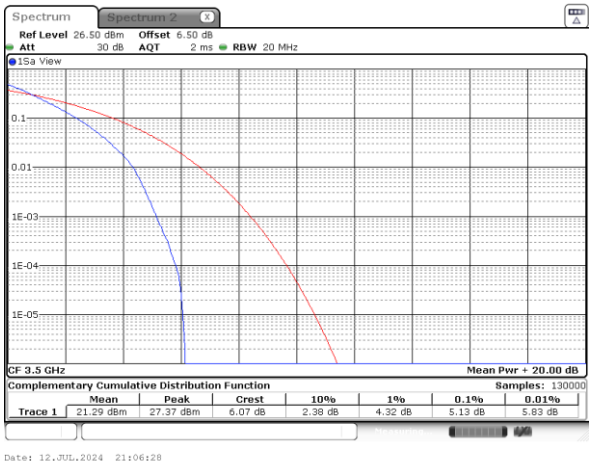
LTE Band 42

Peak-to-Average Ratio

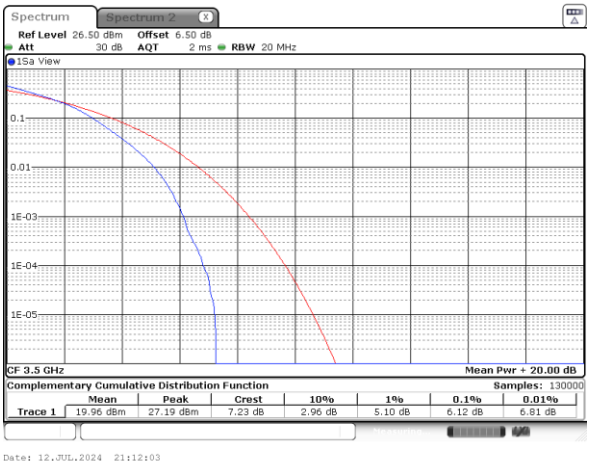
Mode	LTE Band 42 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB				Result
Middle CH	5.13	6.12	6.70	7.13	PASS

LTE Band 42 / 20MHz / Full RB / Middle Channel

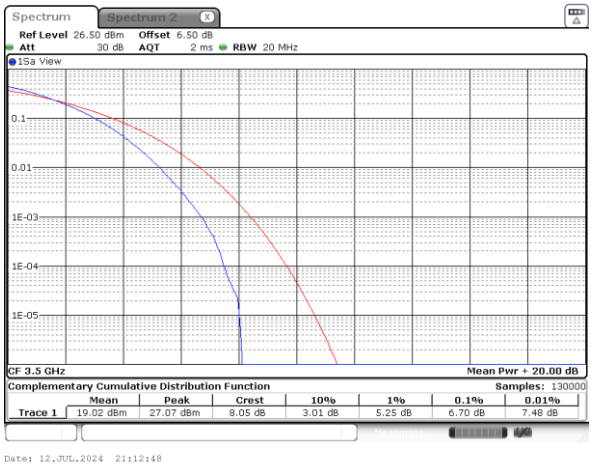
QPSK



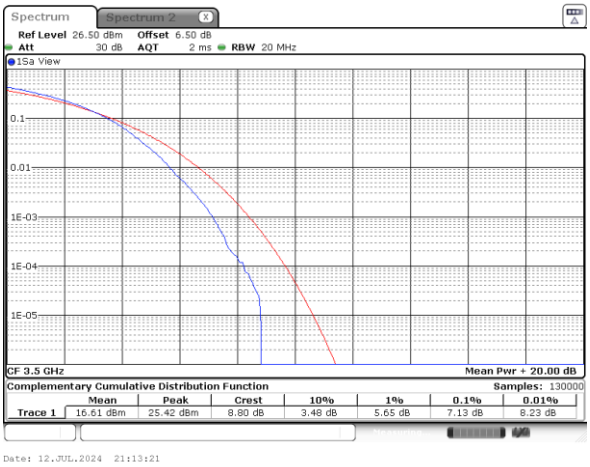
16QAM



64QAM



256QAM

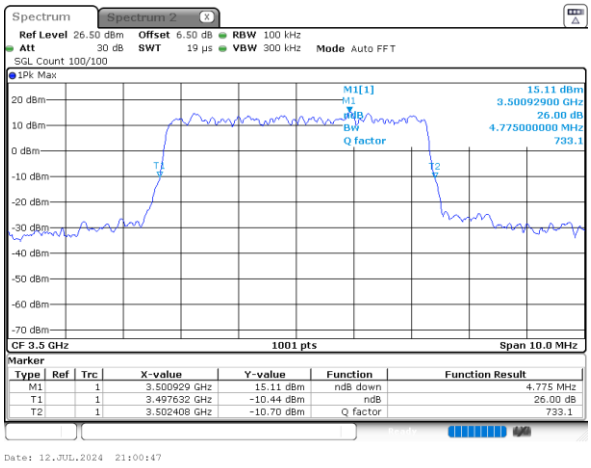


26dB Bandwidth

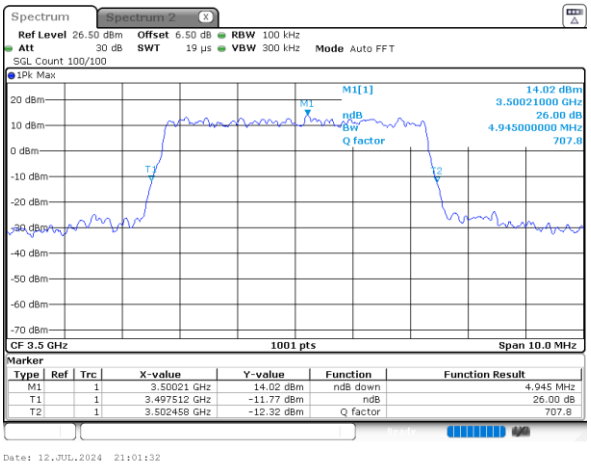
Mode	LTE Band 42 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.78	4.95	9.77	9.75	14.30	14.15	19.34	18.98

LTE Band 42 / Middle channel / Full RB/5M

QPSK

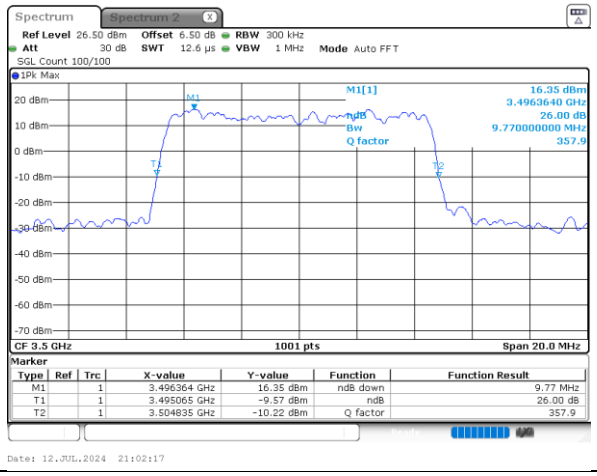


16QAM

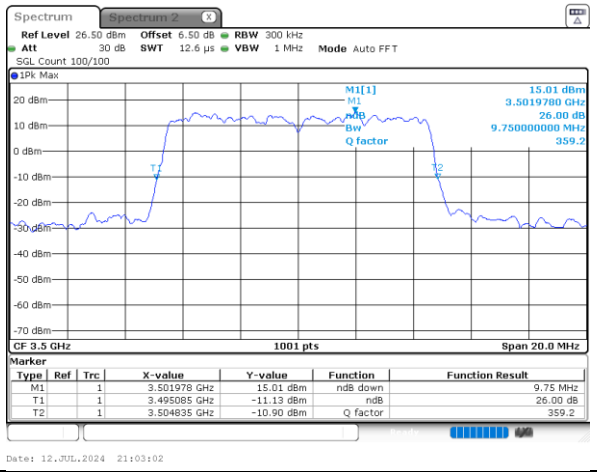


LTE Band 42 / Middle channel / Full RB/10M

QPSK

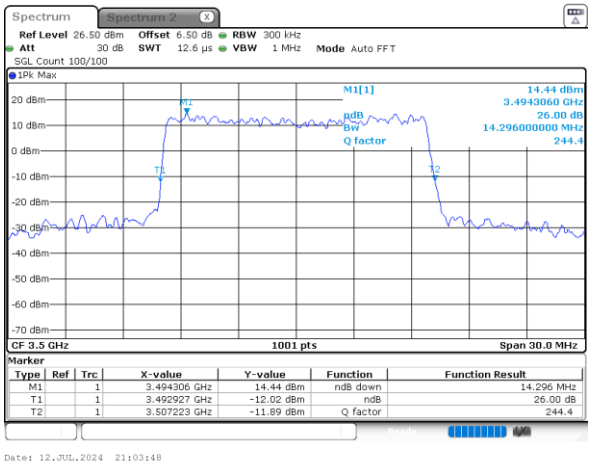


16QAM

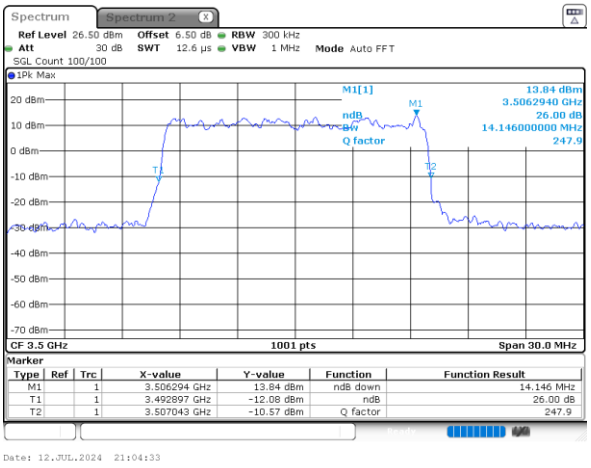


LTE Band 42 / Middle channel / Full RB/15M

QPSK

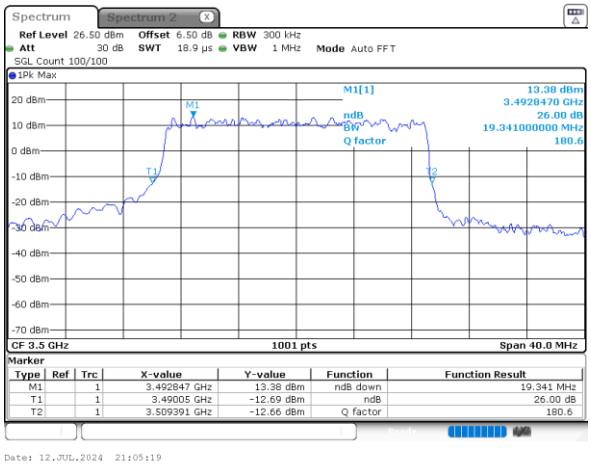


16QAM

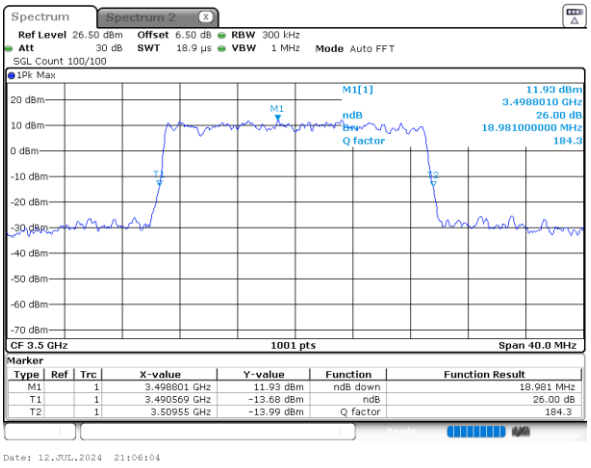


LTE Band 42 / Middle channel / Full RB/20M

QPSK



16QAM

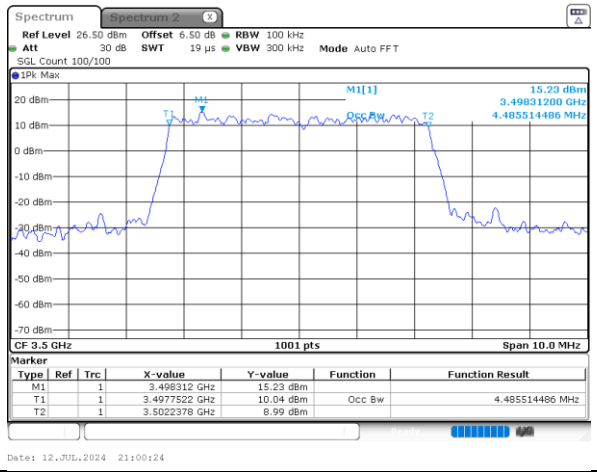


Occupied Bandwidth

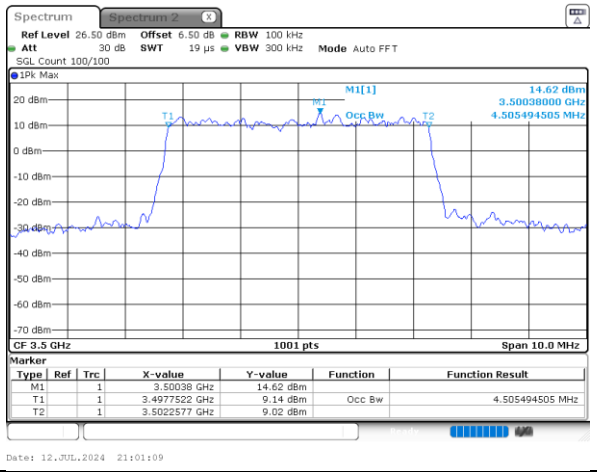
Mode	LTE Band 42 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.49	4.51	9.07	9.05	13.49	13.49	17.90	17.94

LTE Band 42 / Middle channel / Full RB/5M

QPSK

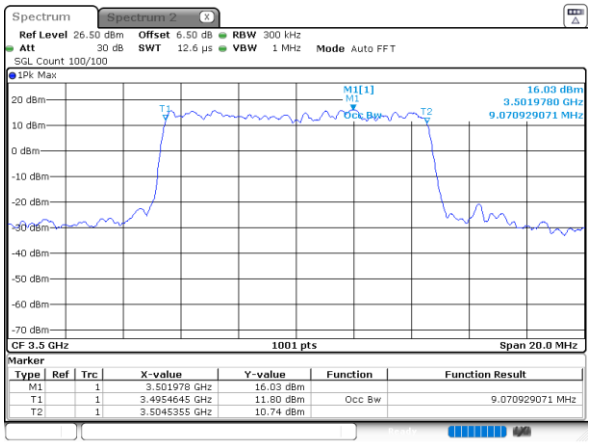


16QAM

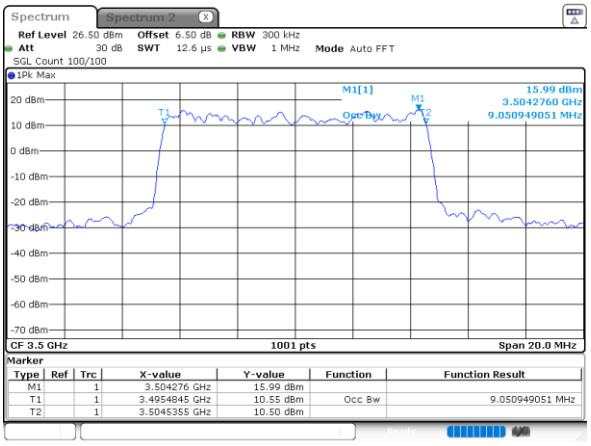


LTE Band 42 / Middle channel / Full RB/10M

QPSK

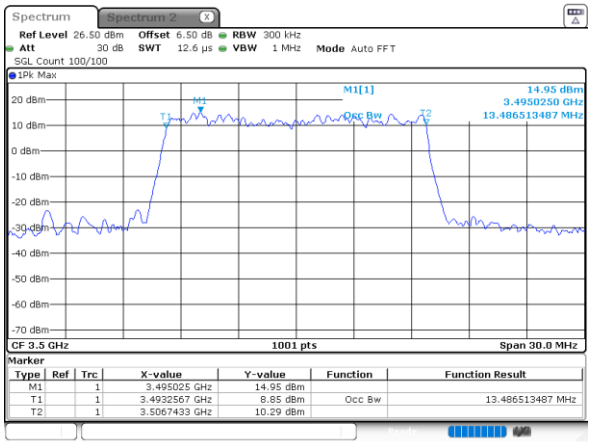


16QAM



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

QPSK



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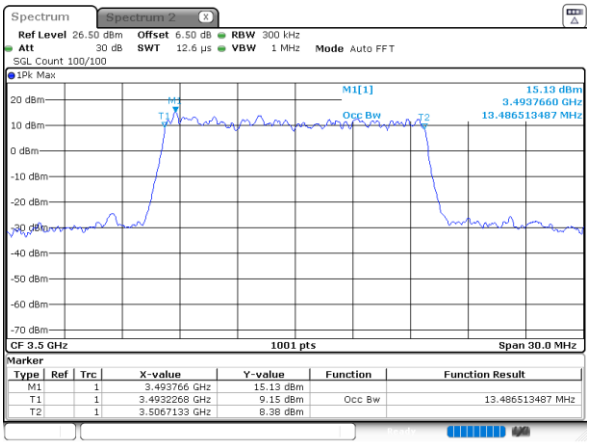
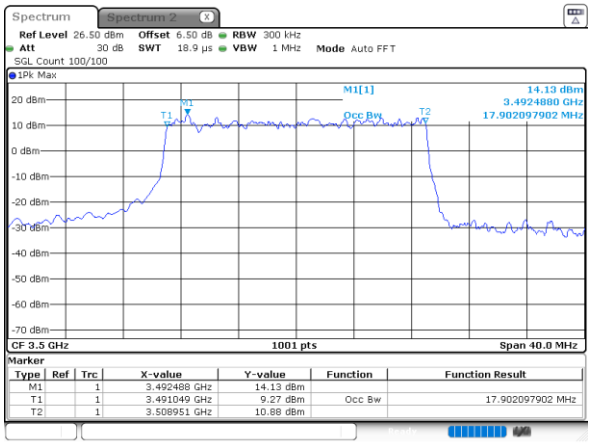


LTE Band 42 / Middle channel / Full RB/20M

QPSK



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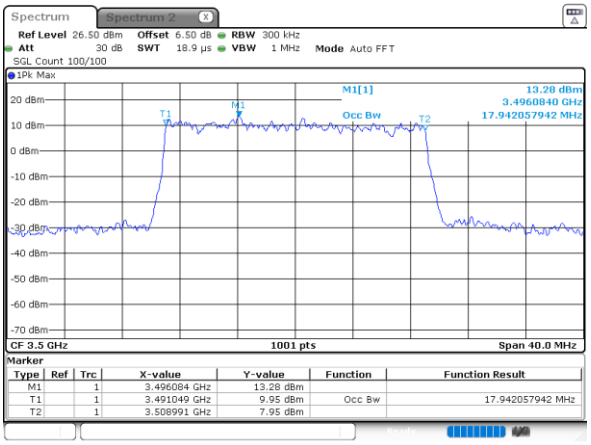
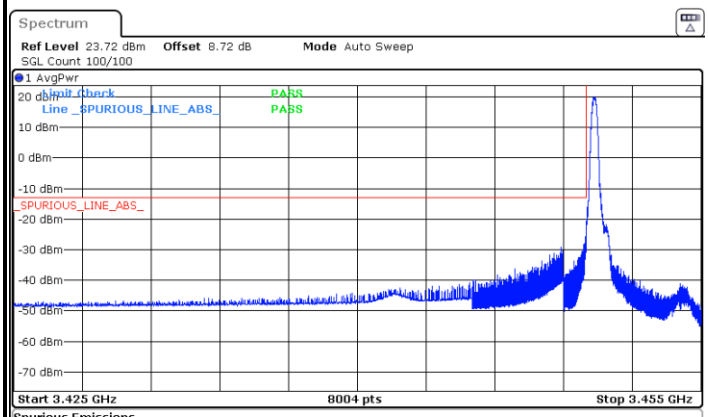


Conducted Band Edge

LTE Band 42 / 5MHz

QPSK

Lowest Channel / 1RB0

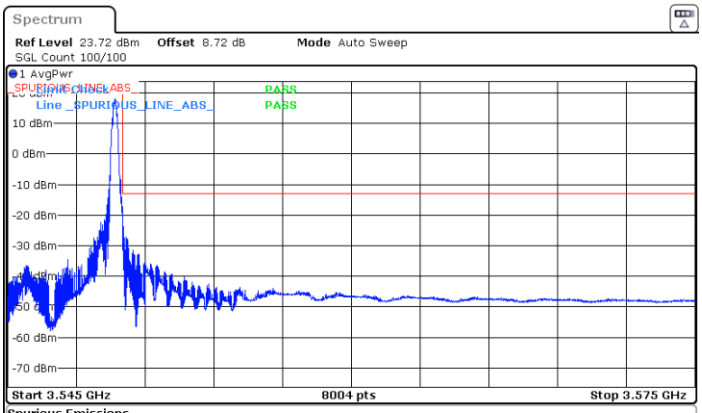


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44489 GHz	-40.77 dBm	-27.77 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44889 GHz	-29.05 dBm	-16.05 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.44999 GHz	-23.91 dBm	-10.91 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45034 GHz	20.07 dBm	-9.93 dB

Date: 12.JUL.2024 18:41:43

Highest Channel / 1RBmax

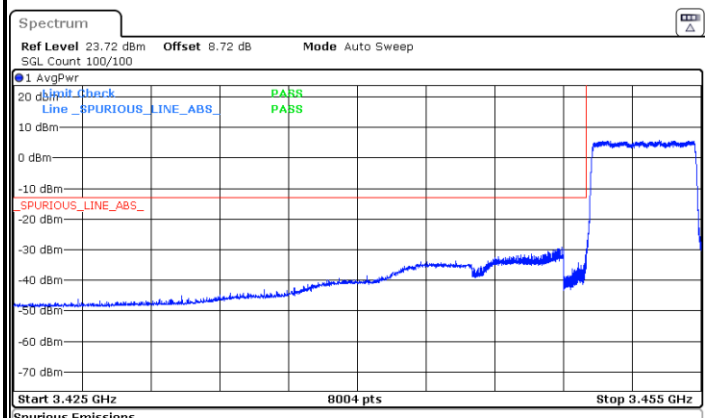


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54967 GHz	17.95 dBm	-12.05 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55000 GHz	-20.29 dBm	-7.29 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55102 GHz	-35.79 dBm	-22.79 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55515 GHz	-43.54 dBm	-30.54 dB

Date: 12.JUL.2024 18:52:14

Lowest Channel / FullRB

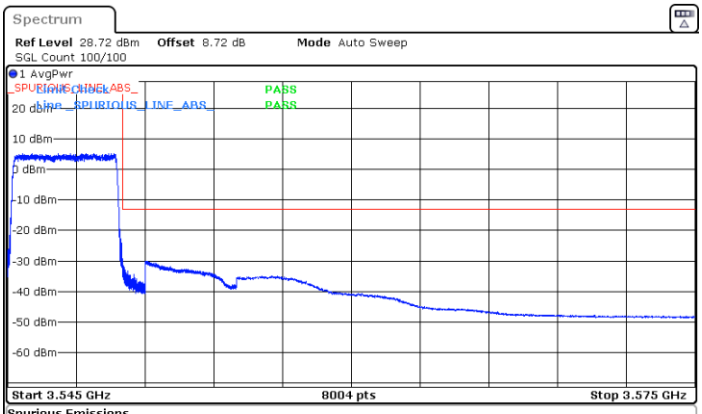


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44428 GHz	-33.70 dBm	-20.70 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44892 GHz	-29.18 dBm	-16.18 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.44997 GHz	-31.70 dBm	-18.70 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45318 GHz	5.82 dBm	-24.18 dB

Date: 12.JUL.2024 18:44:57

Highest Channel / FullRB



Spurious Emissions

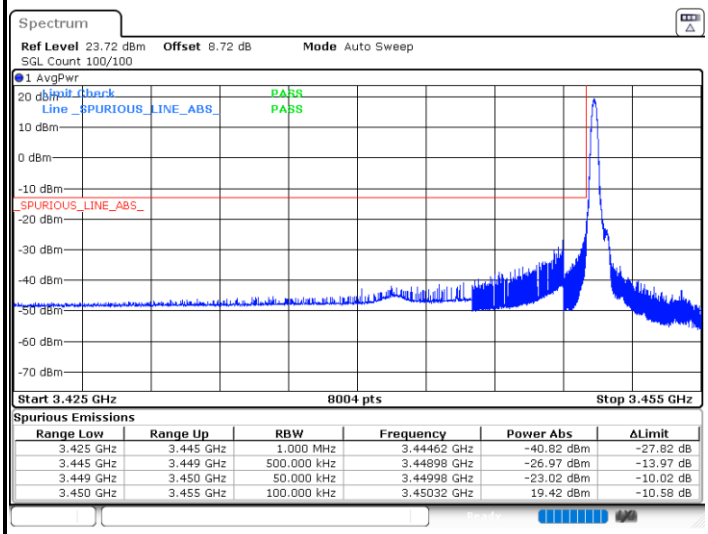
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54775 GHz	5.23 dBm	-24.77 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55000 GHz	-29.72 dBm	-16.72 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55103 GHz	-29.99 dBm	-16.99 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55650 GHz	-34.88 dBm	-21.88 dB

Date: 12.JUL.2024 19:00:58

LTE Band 42 / 5MHz

16QAM

Lowest Channel / 1RB0

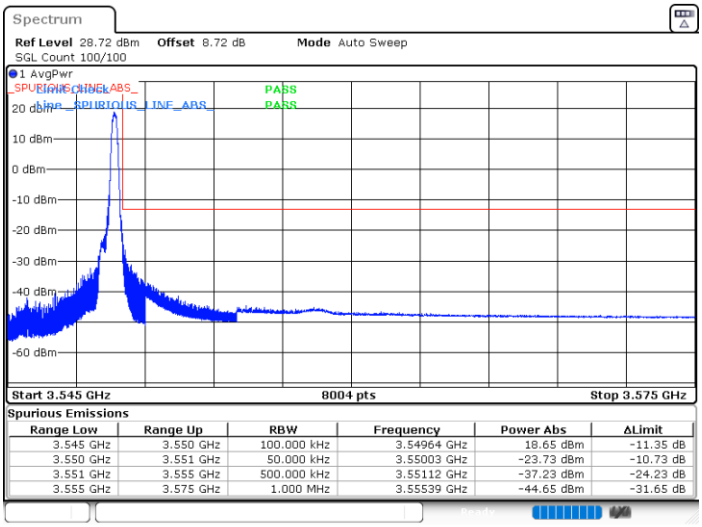


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44462 GHz	-40.82 dBm	-27.82 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44898 GHz	-26.97 dBm	-13.97 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.44998 GHz	-23.02 dBm	-10.02 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45032 GHz	19.42 dBm	-10.58 dB

Date: 12.JUL.2024 18:42:30

Highest Channel / 1RBmax

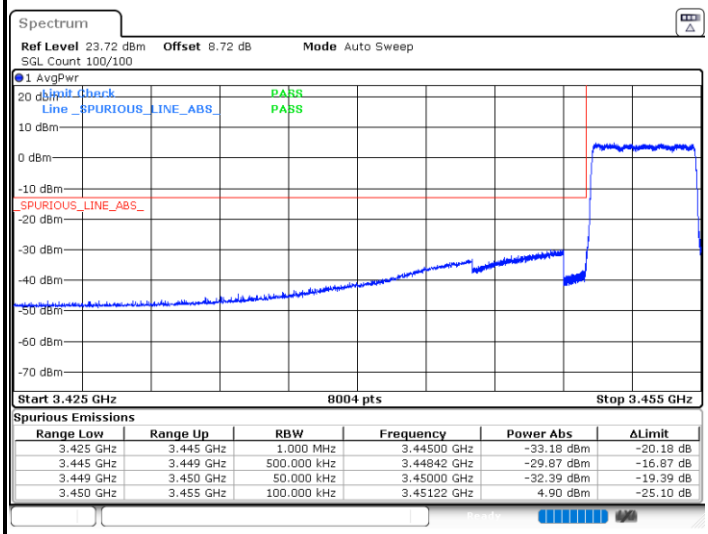


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54964 GHz	18.65 dBm	-11.35 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55003 GHz	-23.73 dBm	-10.73 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55112 GHz	-37.23 dBm	-24.23 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55539 GHz	-44.65 dBm	-31.65 dB

Date: 12.JUL.2024 19:00:09

Lowest Channel / FullRB

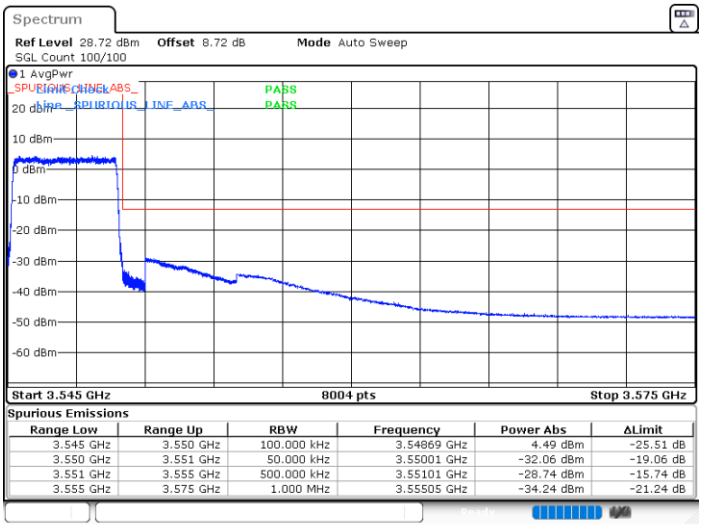


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44500 GHz	-33.18 dBm	-20.18 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44842 GHz	-29.87 dBm	-16.87 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.45000 GHz	-32.39 dBm	-19.39 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45122 GHz	4.90 dBm	-25.10 dB

Date: 12.JUL.2024 18:45:46

Highest Channel / FullRB



Spurious Emissions

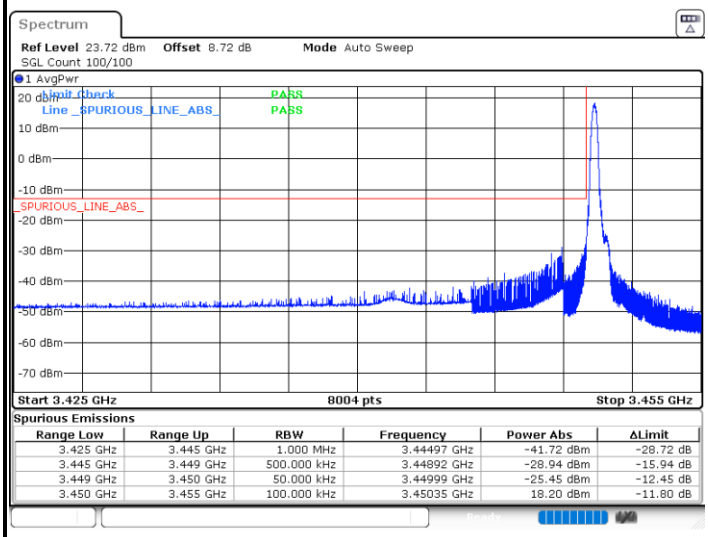
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54869 GHz	4.49 dBm	-25.51 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55001 GHz	-32.06 dBm	-19.06 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55101 GHz	-28.74 dBm	-15.74 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55505 GHz	-34.24 dBm	-21.24 dB

Date: 12.JUL.2024 19:01:54

LTE Band 42 / 5MHz

64QAM

Lowest Channel / 1RB0

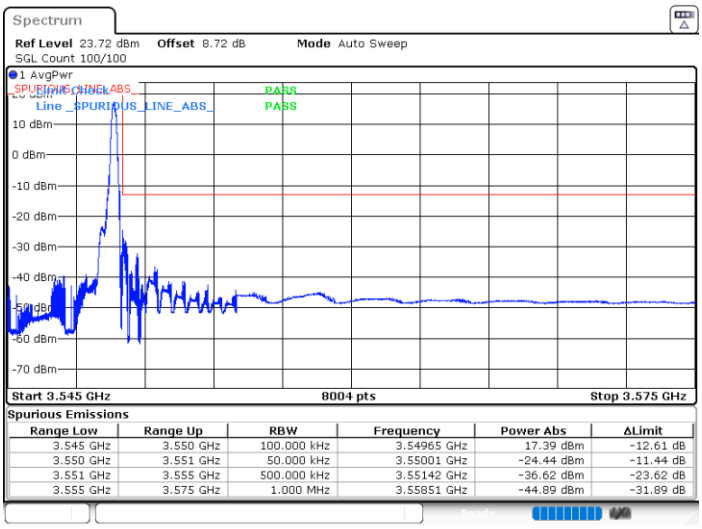


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44497 GHz	-41.72 dBm	-28.72 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44892 GHz	-28.94 dBm	-15.94 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.44999 GHz	-25.45 dBm	-12.45 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45035 GHz	18.20 dBm	-11.80 dB

Date: 12.JUL.2024 18:43:17

Highest Channel / 1RBmax

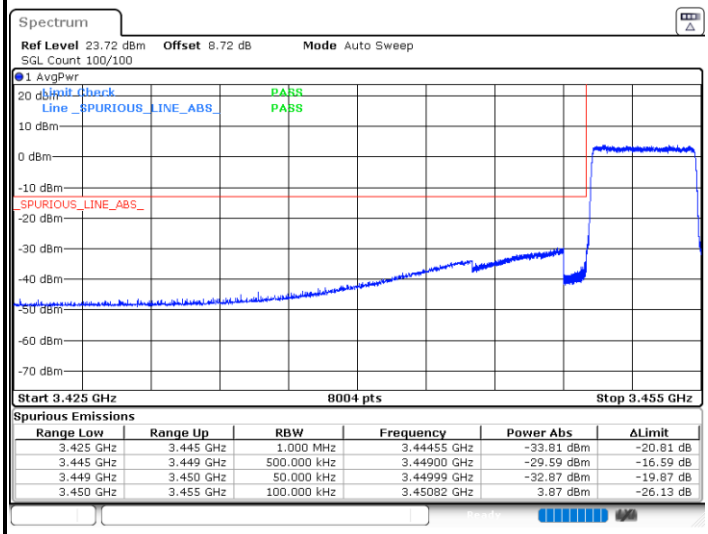


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54965 GHz	17.39 dBm	-12.61 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55001 GHz	-24.44 dBm	-11.44 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55142 GHz	-36.62 dBm	-23.62 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55851 GHz	-44.89 dBm	-31.89 dB

Date: 12.JUL.2024 18:53:52

Lowest Channel / FullRB

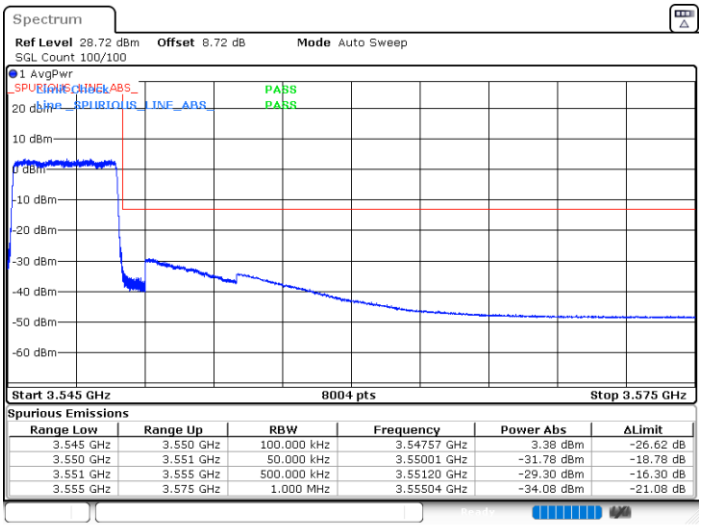


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44455 GHz	-33.81 dBm	-20.81 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44900 GHz	-29.59 dBm	-16.59 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.44999 GHz	-32.87 dBm	-19.87 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45082 GHz	3.87 dBm	-26.13 dB

Date: 12.JUL.2024 18:46:34

Highest Channel / FullRB



Spurious Emissions

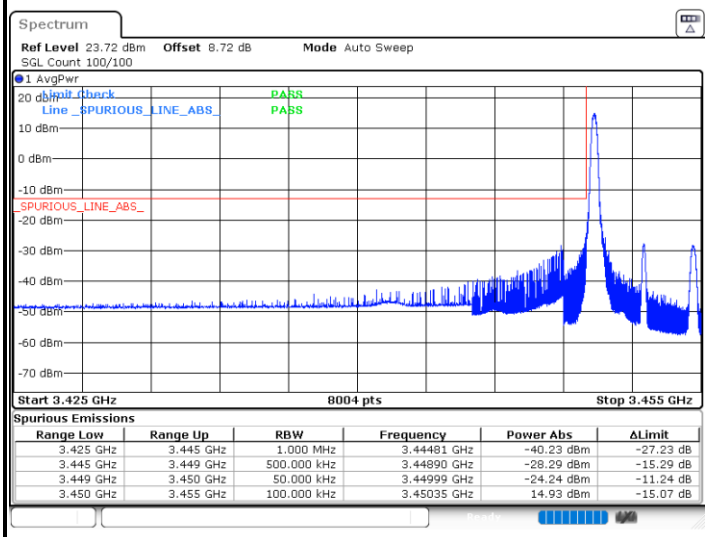
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54757 GHz	3.38 dBm	-26.62 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55001 GHz	-31.78 dBm	-18.78 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55120 GHz	-29.30 dBm	-16.30 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55504 GHz	-34.08 dBm	-21.08 dB

Date: 12.JUL.2024 19:02:42

LTE Band 42 / 5MHz

256QAM

Lowest Channel / 1RB0

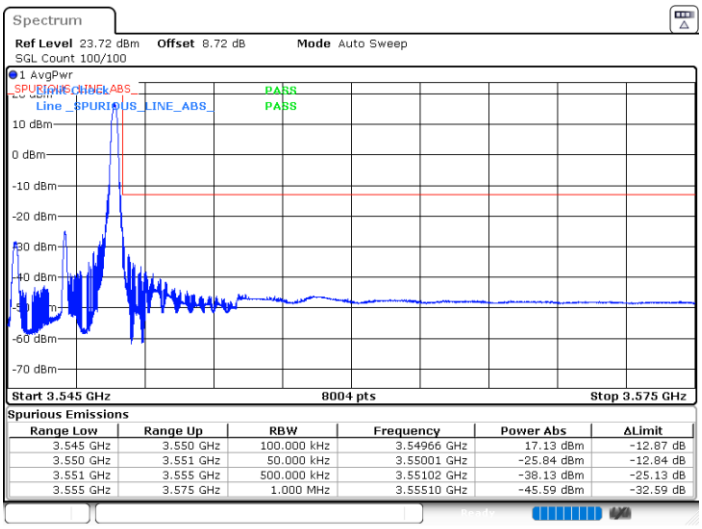


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44481 GHz	-40.23 dBm	-27.23 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44890 GHz	-28.29 dBm	-15.29 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.44999 GHz	-24.24 dBm	-11.24 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45035 GHz	14.93 dBm	-15.07 dB

Date: 12.JUL.2024 18:44:05

Highest Channel / 1RBmax

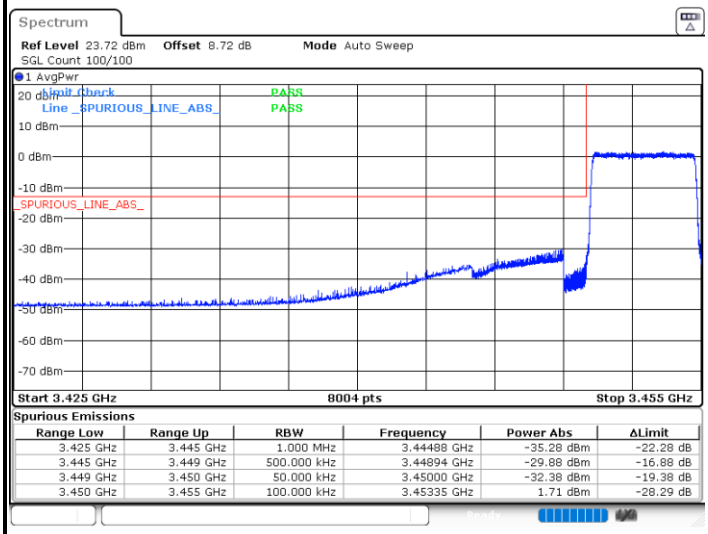


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54966 GHz	17.13 dBm	-12.87 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55001 GHz	-25.84 dBm	-12.84 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55102 GHz	-38.13 dBm	-25.13 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55510 GHz	-45.59 dBm	-32.59 dB

Date: 12.JUL.2024 18:54:40

Lowest Channel / FullRB

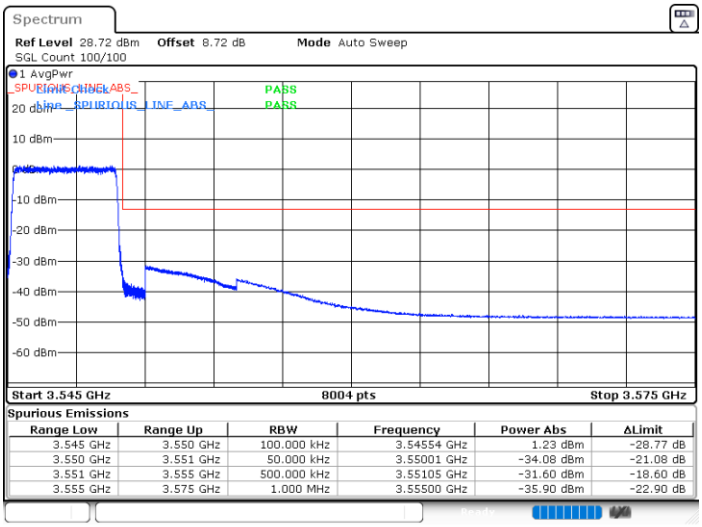


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44488 GHz	-35.28 dBm	-22.28 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44894 GHz	-29.88 dBm	-16.88 dB
3.449 GHz	3.450 GHz	50.000 kHz	3.45000 GHz	-32.38 dBm	-19.38 dB
3.450 GHz	3.455 GHz	100.000 kHz	3.45335 GHz	1.71 dBm	-28.29 dB

Date: 12.JUL.2024 18:47:22

Highest Channel / FullRB



Spurious Emissions

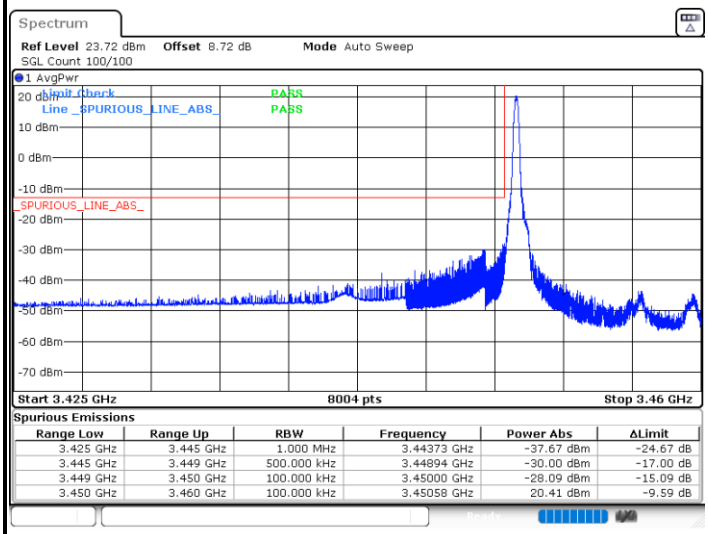
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.545 GHz	3.550 GHz	100.000 kHz	3.54554 GHz	1.23 dBm	-28.77 dB
3.550 GHz	3.551 GHz	50.000 kHz	3.55001 GHz	-34.08 dBm	-21.08 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55105 GHz	-31.60 dBm	-18.60 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55500 GHz	-35.90 dBm	-22.90 dB

Date: 12.JUL.2024 19:03:30

LTE Band 42 / 10MHz

QPSK

Lowest Channel / 1RB0

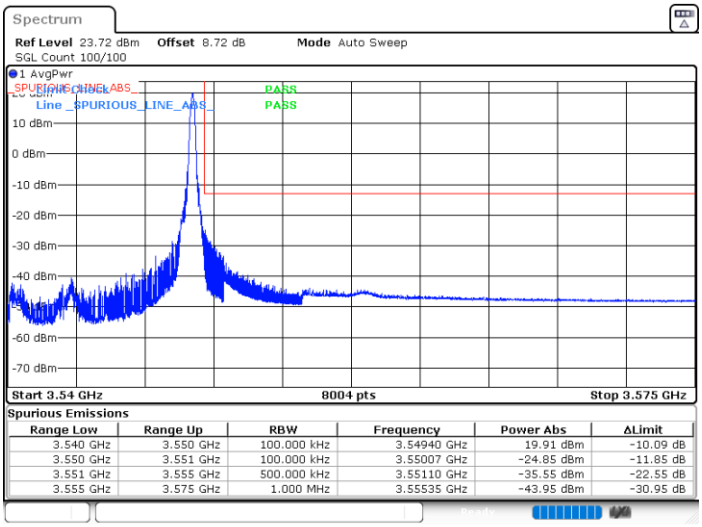


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44373 GHz	-37.67 dBm	-24.67 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44894 GHz	-30.00 dBm	-17.00 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.45000 GHz	-28.09 dBm	-15.09 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45058 GHz	20.41 dBm	-9.59 dB

Date: 12.JUL.2024 19:09:41

Highest Channel / 1RBmax

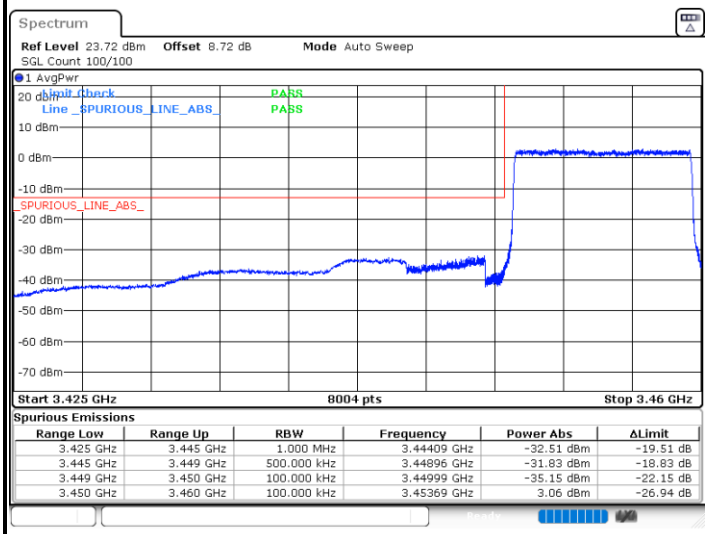


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54940 GHz	19.91 dBm	-10.09 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55007 GHz	-24.85 dBm	-11.85 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55110 GHz	-35.55 dBm	-22.55 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55535 GHz	-43.95 dBm	-30.95 dB

Date: 12.JUL.2024 19:20:04

Lowest Channel / FullRB

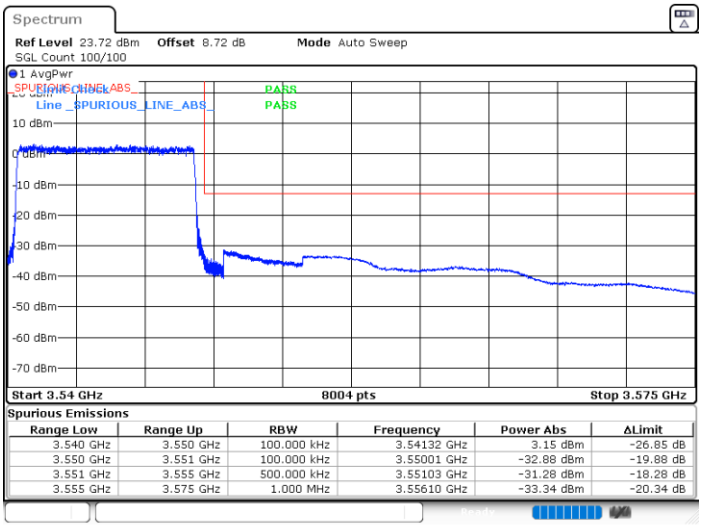


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44409 GHz	-32.51 dBm	-19.51 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44896 GHz	-31.83 dBm	-18.83 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44999 GHz	-35.15 dBm	-22.15 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45369 GHz	3.06 dBm	-26.94 dB

Date: 12.JUL.2024 19:12:55

Highest Channel / FullRB



Spurious Emissions

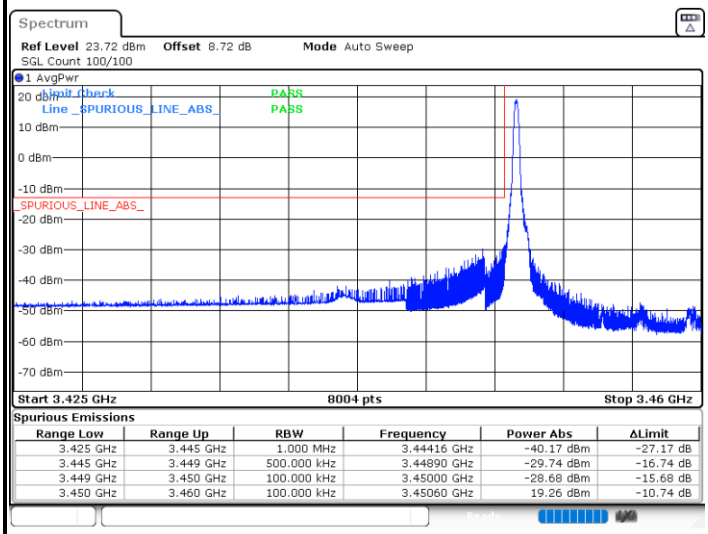
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54132 GHz	3.15 dBm	-26.85 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55001 GHz	-32.88 dBm	-19.88 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55103 GHz	-31.28 dBm	-18.28 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55610 GHz	-33.34 dBm	-20.34 dB

Date: 12.JUL.2024 19:23:21

LTE Band 42 / 10MHz

16QAM

Lowest Channel / 1RB0

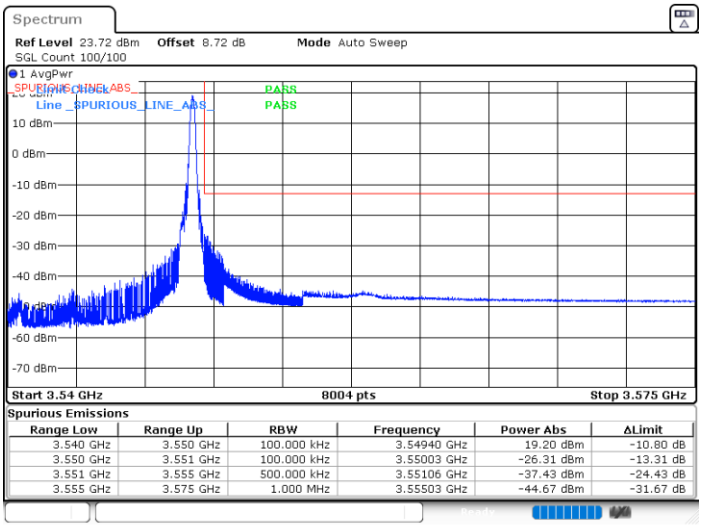


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44416 GHz	-40.17 dBm	-27.17 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44890 GHz	-29.74 dBm	-16.74 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.45000 GHz	-28.68 dBm	-15.68 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45060 GHz	19.26 dBm	-10.74 dB

Date: 12.JUL.2024 19:10:29

Highest Channel / 1RBmax

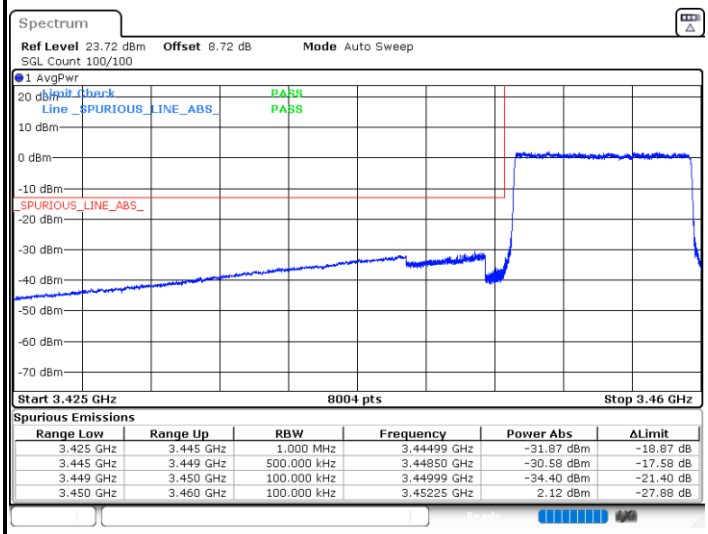


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54940 GHz	19.20 dBm	-10.80 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55003 GHz	-26.31 dBm	-13.31 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55106 GHz	-37.43 dBm	-24.43 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55503 GHz	-44.67 dBm	-31.67 dB

Date: 12.JUL.2024 19:20:53

Lowest Channel / FullRB

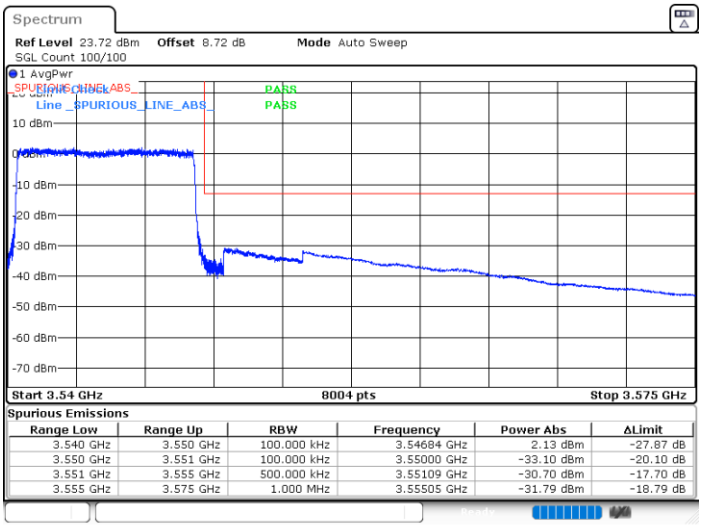


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44499 GHz	-31.87 dBm	-18.87 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44850 GHz	-30.58 dBm	-17.58 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44999 GHz	-34.40 dBm	-21.40 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45225 GHz	2.12 dBm	-27.88 dB

Date: 12.JUL.2024 19:13:43

Highest Channel / FullRB



Spurious Emissions

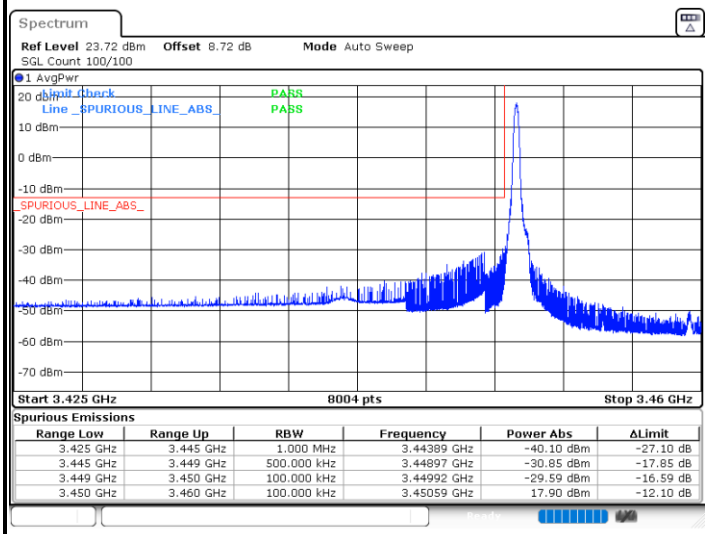
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54684 GHz	2.13 dBm	-27.87 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55000 GHz	-33.10 dBm	-20.10 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55109 GHz	-30.70 dBm	-17.70 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55505 GHz	-31.79 dBm	-18.79 dB

Date: 12.JUL.2024 19:24:08

LTE Band 42 / 10MHz

64QAM

Lowest Channel / 1RB0

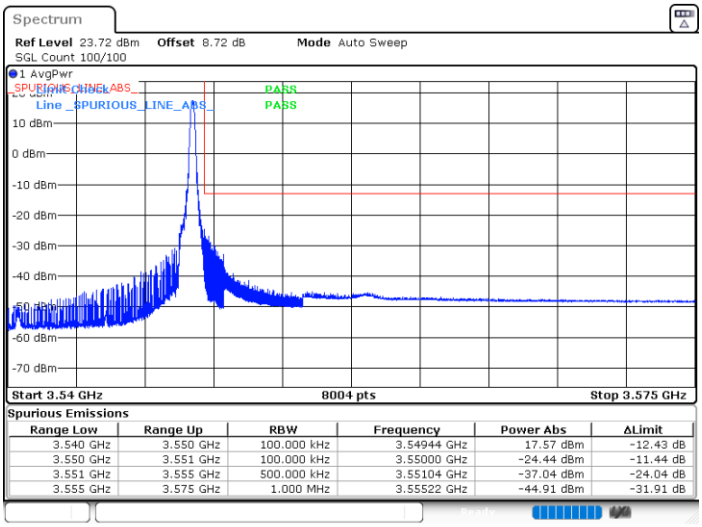


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44389 GHz	-40.10 dBm	-27.10 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44897 GHz	-30.85 dBm	-17.85 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44992 GHz	-29.59 dBm	-16.59 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45059 GHz	17.90 dBm	-12.10 dB

Date: 12.JUL.2024 19:11:18

Highest Channel / 1RBmax

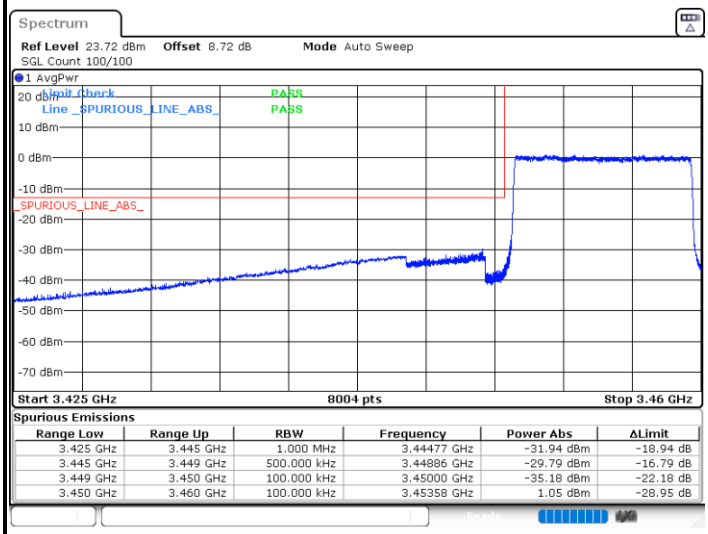


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54944 GHz	17.57 dBm	-12.43 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55000 GHz	-24.44 dBm	-11.44 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55104 GHz	-37.04 dBm	-24.04 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55522 GHz	-44.91 dBm	-31.91 dB

Date: 12.JUL.2024 19:21:41

Lowest Channel / FullRB

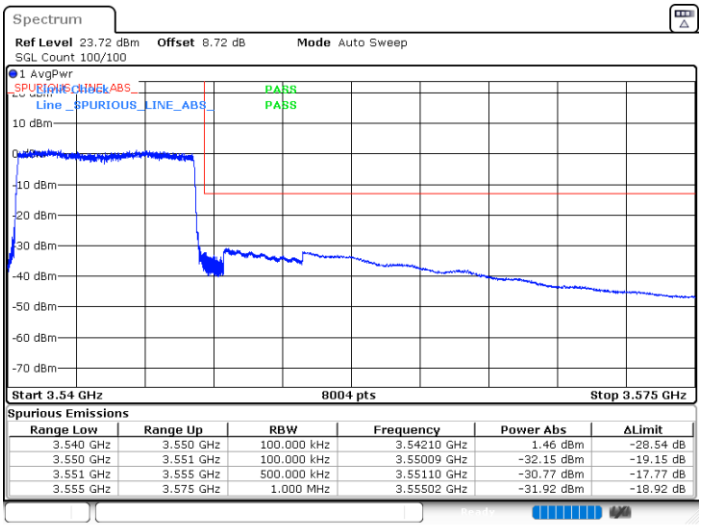


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44477 GHz	-31.94 dBm	-18.94 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44886 GHz	-29.79 dBm	-16.79 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.45000 GHz	-35.18 dBm	-22.18 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45358 GHz	1.05 dBm	-28.95 dB

Date: 12.JUL.2024 19:14:31

Highest Channel / FullRB



Spurious Emissions

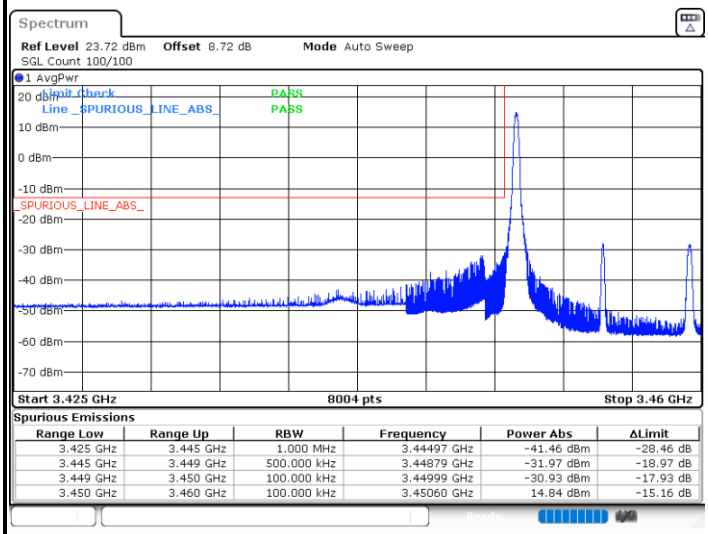
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54210 GHz	1.46 dBm	-28.54 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55009 GHz	-32.15 dBm	-19.15 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55110 GHz	-30.77 dBm	-17.77 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55502 GHz	-31.92 dBm	-18.92 dB

Date: 12.JUL.2024 19:24:56

LTE Band 42 / 10MHz

256QAM

Lowest Channel / 1RB0

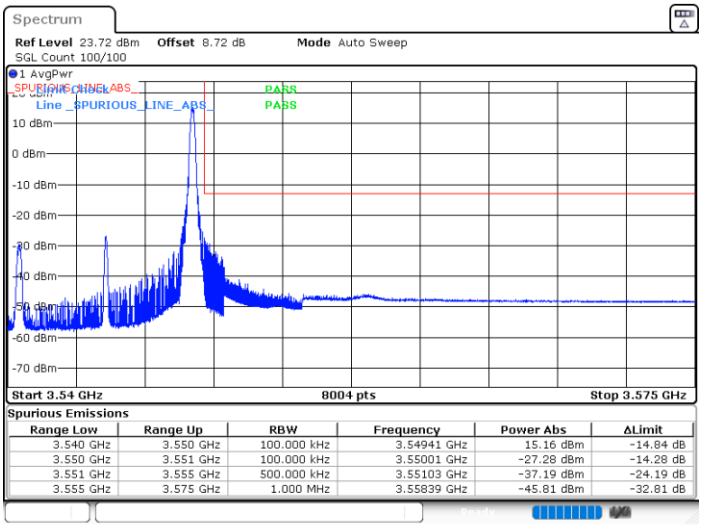


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44497 GHz	-41.46 dBm	-28.46 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44879 GHz	-31.97 dBm	-18.97 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44999 GHz	-30.93 dBm	-17.93 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45060 GHz	14.84 dBm	-15.16 dB

Date: 12.JUL.2024 19:12:05

Highest Channel / 1RBmax

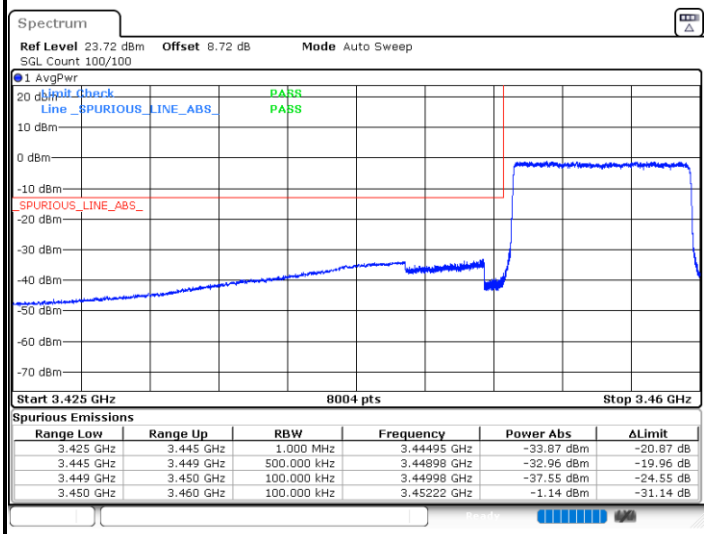


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54941 GHz	15.16 dBm	-14.84 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55001 GHz	-27.28 dBm	-14.28 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55103 GHz	-37.19 dBm	-24.19 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55839 GHz	-45.81 dBm	-32.81 dB

Date: 12.JUL.2024 19:22:29

Lowest Channel / FullRB

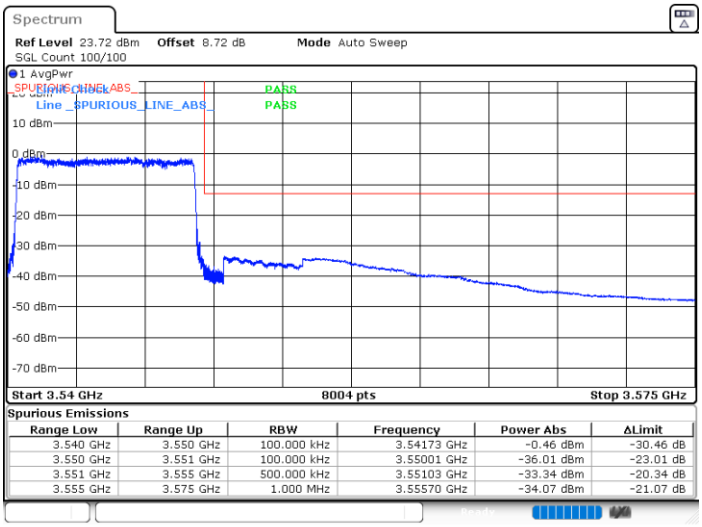


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44495 GHz	-33.87 dBm	-20.87 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44898 GHz	-32.96 dBm	-19.96 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44998 GHz	-37.55 dBm	-24.55 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45222 GHz	-1.14 dBm	-31.14 dB

Date: 12.JUL.2024 19:15:19

Highest Channel / FullRB



Spurious Emissions

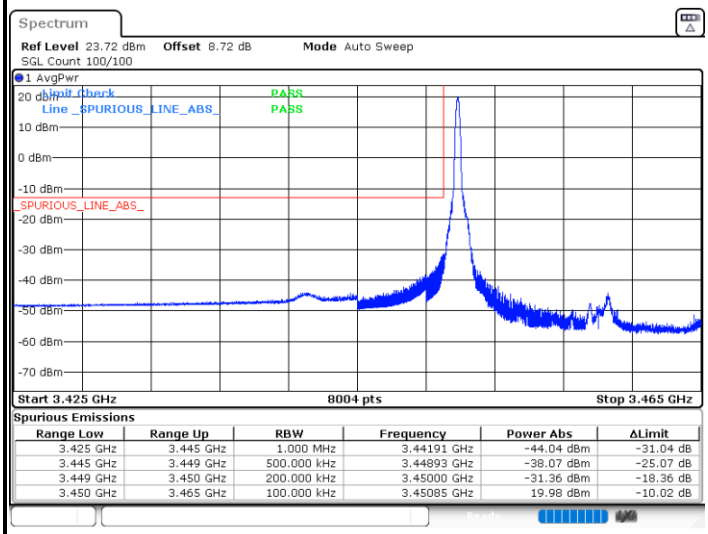
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54173 GHz	-0.46 dBm	-30.46 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55001 GHz	-36.01 dBm	-23.01 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55103 GHz	-33.34 dBm	-20.34 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55570 GHz	-34.07 dBm	-21.07 dB

Date: 12.JUL.2024 19:25:43

LTE Band 42 / 15MHz

QPSK

Lowest Channel / 1RB0

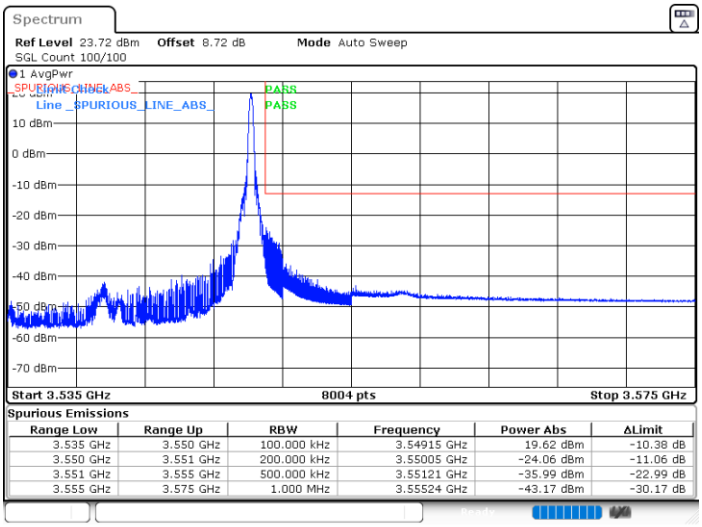


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44191 GHz	-44.04 dBm	-31.04 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44893 GHz	-38.07 dBm	-25.07 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.45000 GHz	-31.36 dBm	-18.36 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45085 GHz	19.98 dBm	-10.02 dB

Date: 12.JUL.2024 19:27:57

Highest Channel / 1RBmax

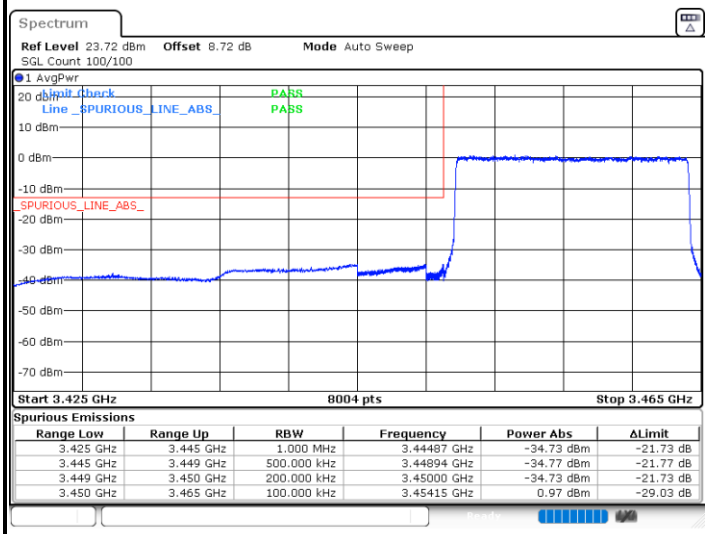


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54915 GHz	19.62 dBm	-10.38 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55005 GHz	-24.06 dBm	-11.06 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55121 GHz	-35.99 dBm	-22.99 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55524 GHz	-43.17 dBm	-30.17 dB

Date: 12.JUL.2024 19:38:23

Lowest Channel / FullRB

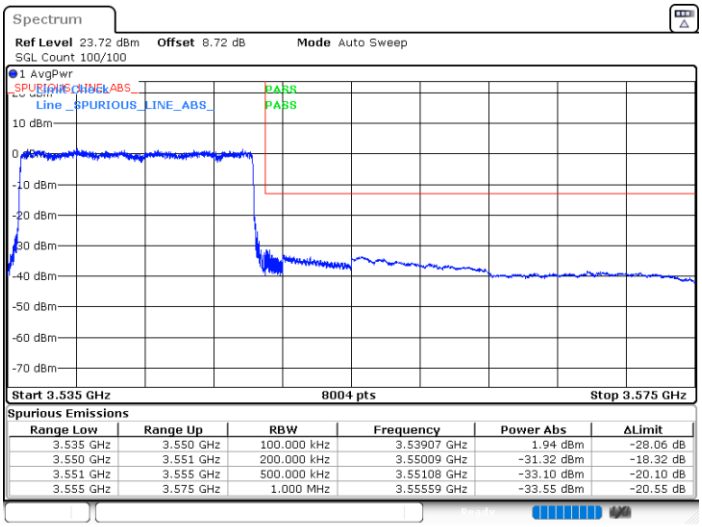


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44487 GHz	-34.73 dBm	-21.73 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44894 GHz	-34.77 dBm	-21.77 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.45000 GHz	-34.73 dBm	-21.73 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45415 GHz	0.97 dBm	-29.03 dB

Date: 12.JUL.2024 19:31:11

Highest Channel / FullRB



Spurious Emissions

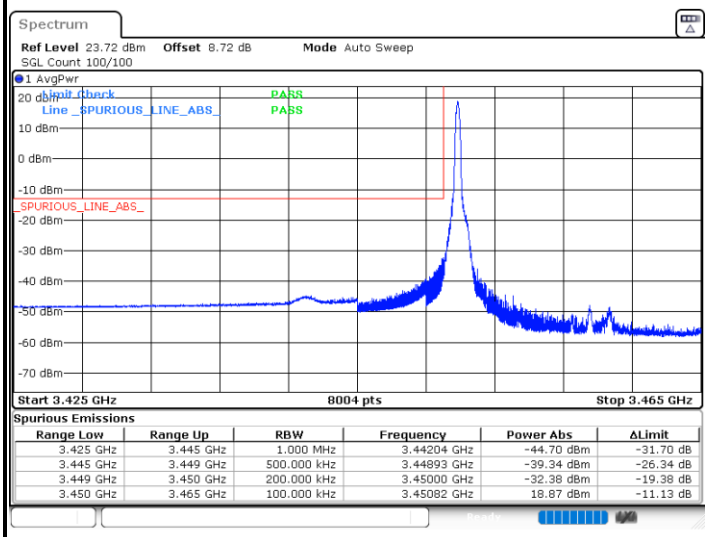
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.53907 GHz	1.94 dBm	-28.06 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55009 GHz	-31.32 dBm	-18.32 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55108 GHz	-33.10 dBm	-20.10 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55559 GHz	-33.55 dBm	-20.55 dB

Date: 12.JUL.2024 19:44:27

LTE Band 42 / 15MHz

16QAM

Lowest Channel / 1RB0

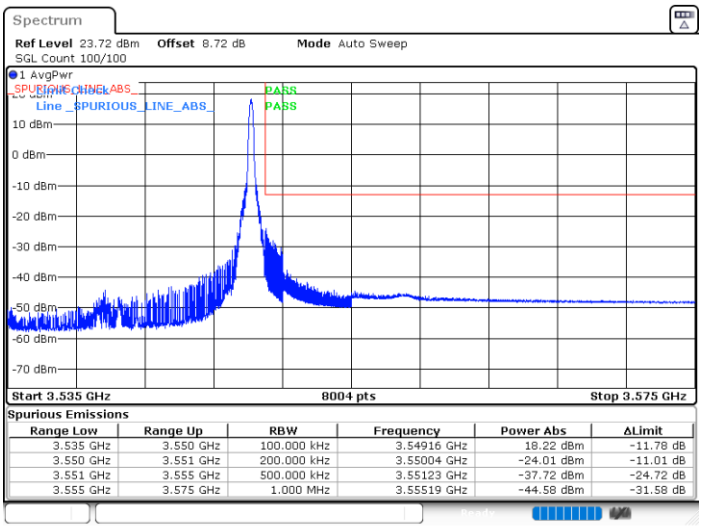


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44204 GHz	-44.70 dBm	-31.70 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44893 GHz	-39.34 dBm	-26.34 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.45000 GHz	-32.38 dBm	-19.38 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45082 GHz	18.87 dBm	-11.13 dB

Date: 12.JUL.2024 19:28:45

Highest Channel / 1RBmax

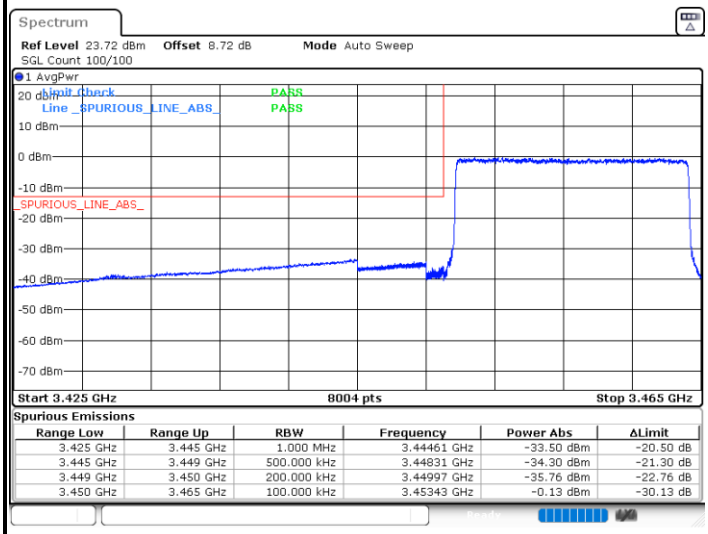


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54916 GHz	18.22 dBm	-11.78 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55004 GHz	-24.01 dBm	-11.01 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55123 GHz	-37.72 dBm	-24.72 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55519 GHz	-44.58 dBm	-31.58 dB

Date: 12.JUL.2024 19:39:12

Lowest Channel / FullRB

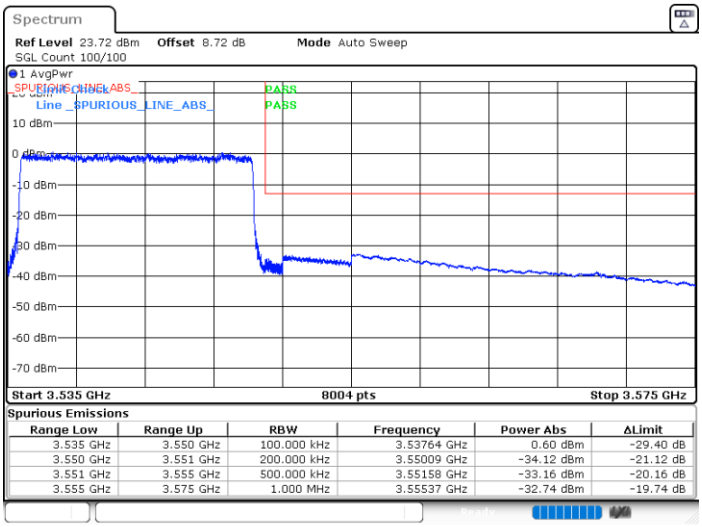


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44461 GHz	-33.50 dBm	-20.50 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44831 GHz	-34.30 dBm	-21.30 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44997 GHz	-35.76 dBm	-22.76 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45343 GHz	-0.13 dBm	-30.13 dB

Date: 12.JUL.2024 19:31:59

Highest Channel / FullRB



Spurious Emissions

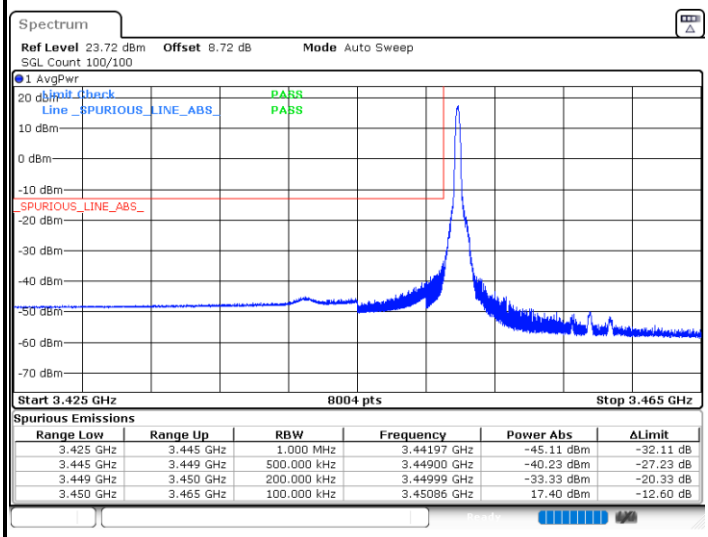
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.53764 GHz	0.60 dBm	-29.40 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55009 GHz	-34.12 dBm	-21.12 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55158 GHz	-33.16 dBm	-20.16 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55537 GHz	-32.74 dBm	-19.74 dB

Date: 12.JUL.2024 19:45:14

LTE Band 42 / 15MHz

64QAM

Lowest Channel / 1RB0

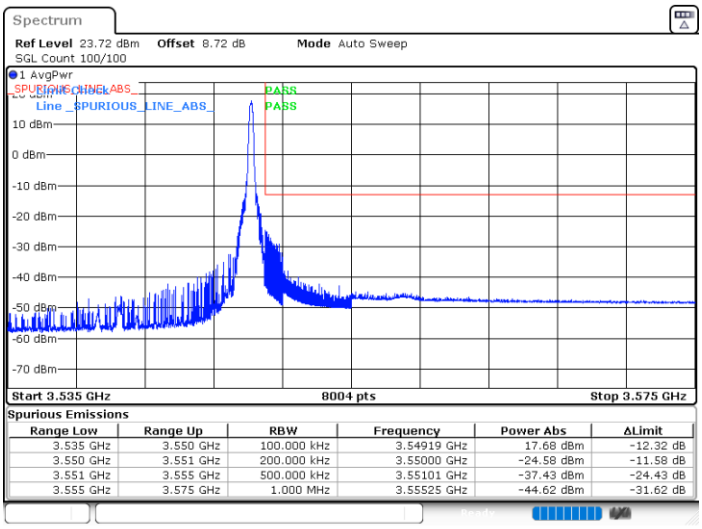


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44197 GHz	-45.11 dBm	-32.11 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44900 GHz	-40.23 dBm	-27.23 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44999 GHz	-33.33 dBm	-20.33 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45086 GHz	17.40 dBm	-12.60 dB

Date: 12.JUL.2024 19:29:33

Highest Channel / 1RBmax

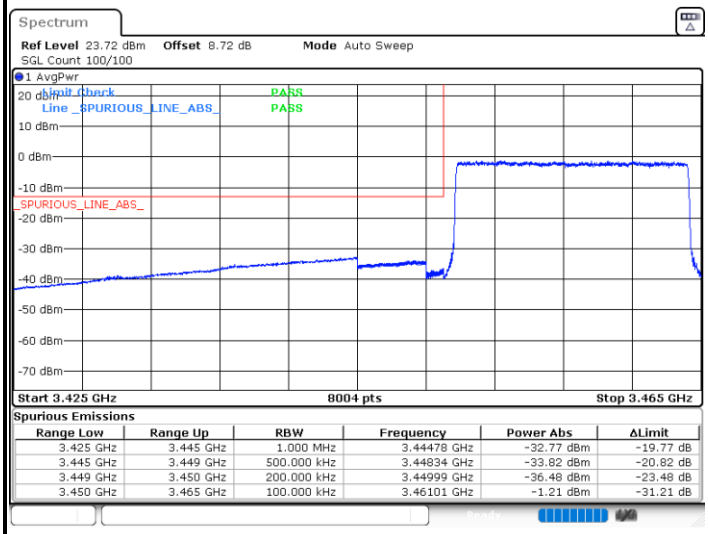


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54919 GHz	17.68 dBm	-12.32 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55000 GHz	-24.58 dBm	-11.58 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55101 GHz	-37.43 dBm	-24.43 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55525 GHz	-44.62 dBm	-31.62 dB

Date: 12.JUL.2024 19:39:59

Lowest Channel / FullRB

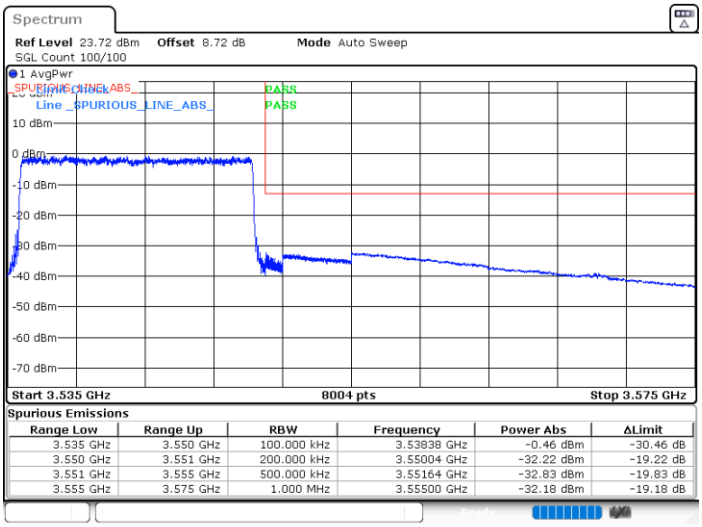


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44478 GHz	-32.77 dBm	-19.77 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44834 GHz	-33.82 dBm	-20.82 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44999 GHz	-36.48 dBm	-23.48 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.46101 GHz	-1.21 dBm	-31.21 dB

Date: 12.JUL.2024 19:32:48

Highest Channel / FullRB



Spurious Emissions

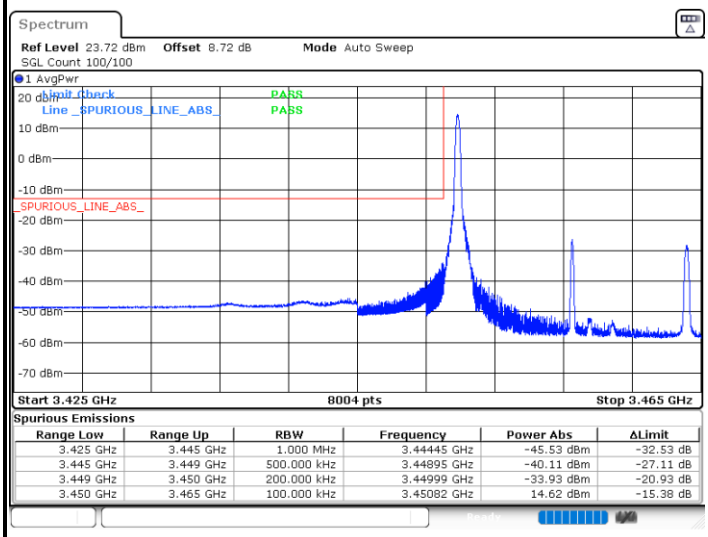
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.53838 GHz	-0.46 dBm	-30.46 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55004 GHz	-32.22 dBm	-19.22 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55164 GHz	-32.83 dBm	-19.83 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55500 GHz	-32.18 dBm	-19.18 dB

Date: 12.JUL.2024 19:46:02

LTE Band 42 / 15MHz

256QAM

Lowest Channel / 1RB0

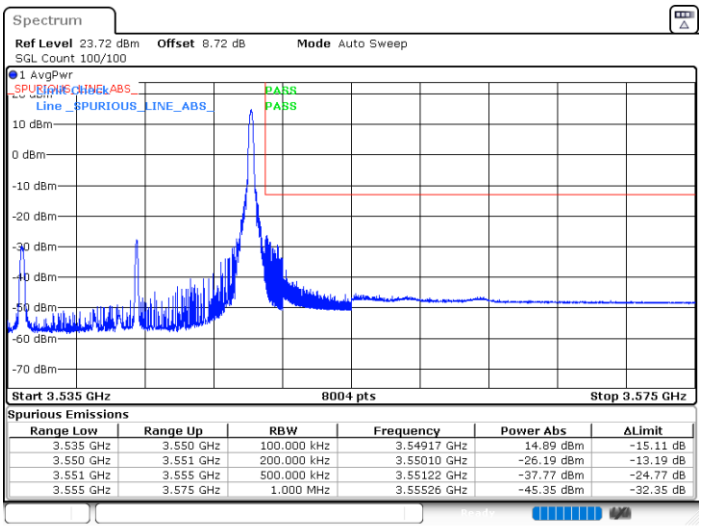


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44445 GHz	-45.53 dBm	-32.53 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44895 GHz	-40.11 dBm	-27.11 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44999 GHz	-33.93 dBm	-20.93 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45082 GHz	14.62 dBm	-15.38 dB

Date: 12.JUL.2024 19:30:21

Highest Channel / 1RBmax

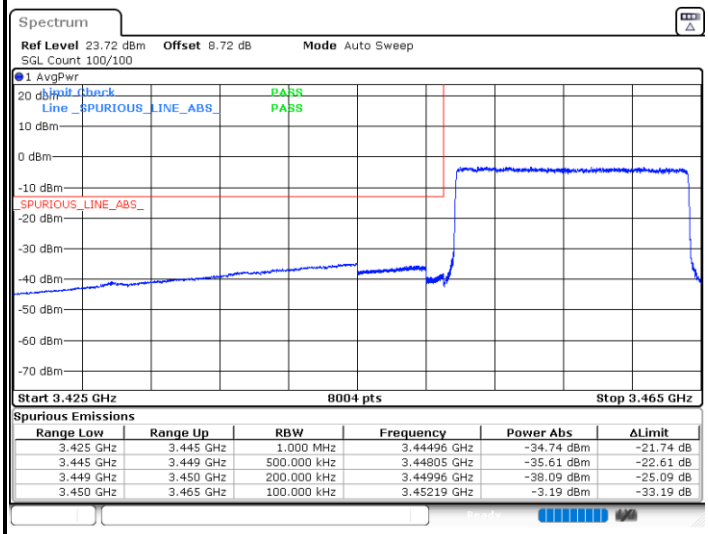


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54917 GHz	14.89 dBm	-15.11 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55010 GHz	-26.19 dBm	-13.19 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55122 GHz	-37.77 dBm	-24.77 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55526 GHz	-45.35 dBm	-32.35 dB

Date: 12.JUL.2024 19:43:39

Lowest Channel / FullRB

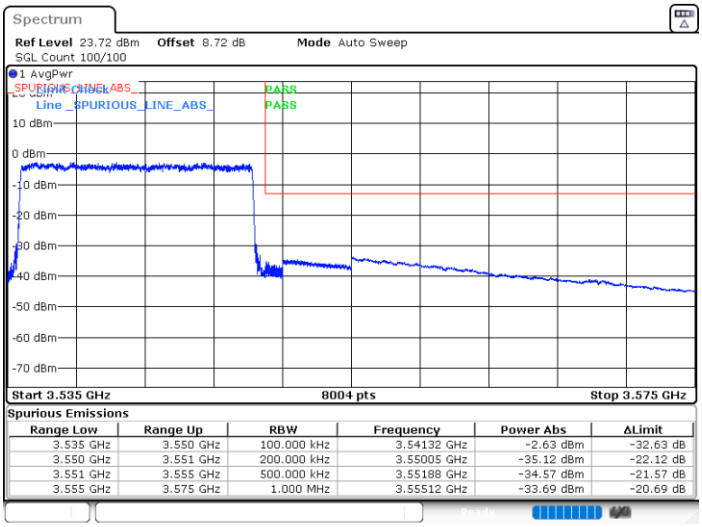


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44496 GHz	-34.74 dBm	-21.74 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44805 GHz	-35.61 dBm	-22.61 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44996 GHz	-38.09 dBm	-25.09 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45219 GHz	-3.19 dBm	-33.19 dB

Date: 12.JUL.2024 19:33:36

Highest Channel / FullRB



Spurious Emissions

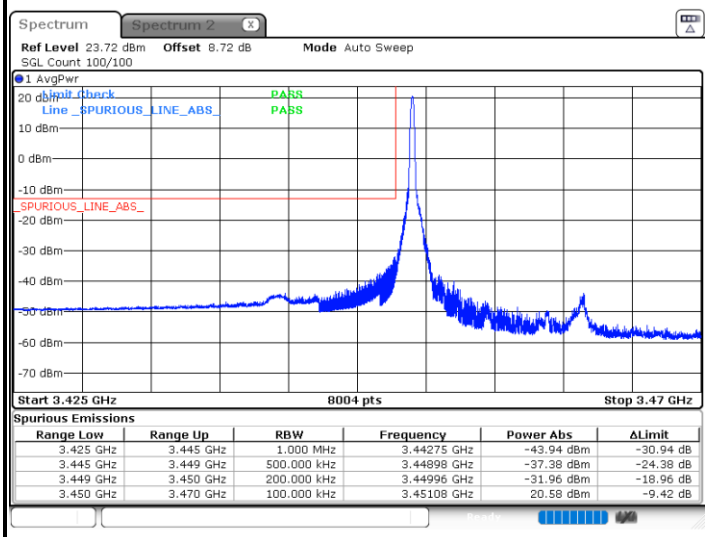
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54132 GHz	-2.63 dBm	-32.63 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55005 GHz	-35.12 dBm	-22.12 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55188 GHz	-34.57 dBm	-21.57 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55512 GHz	-33.69 dBm	-20.69 dB

Date: 12.JUL.2024 19:46:50

LTE Band 42 / 20MHz

QPSK

Lowest Channel / 1RB0

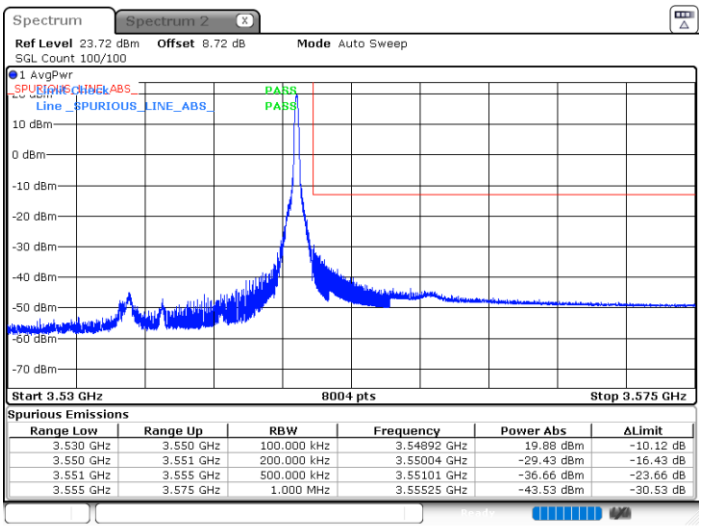


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44275 GHz	-43.94 dBm	-30.94 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44898 GHz	-37.38 dBm	-24.38 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44996 GHz	-31.96 dBm	-18.96 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45108 GHz	20.58 dBm	-9.42 dB

Date: 12.JUL.2024 20:02:13

Highest Channel / 1RBmax

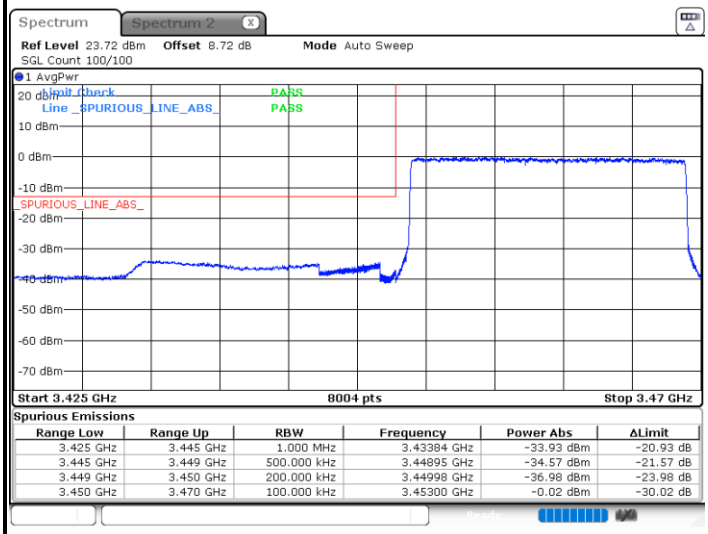


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54892 GHz	19.88 dBm	-10.12 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55004 GHz	-29.43 dBm	-16.43 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55101 GHz	-36.66 dBm	-23.66 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55525 GHz	-43.53 dBm	-30.53 dB

Date: 12.JUL.2024 20:09:23

Lowest Channel / FullRB

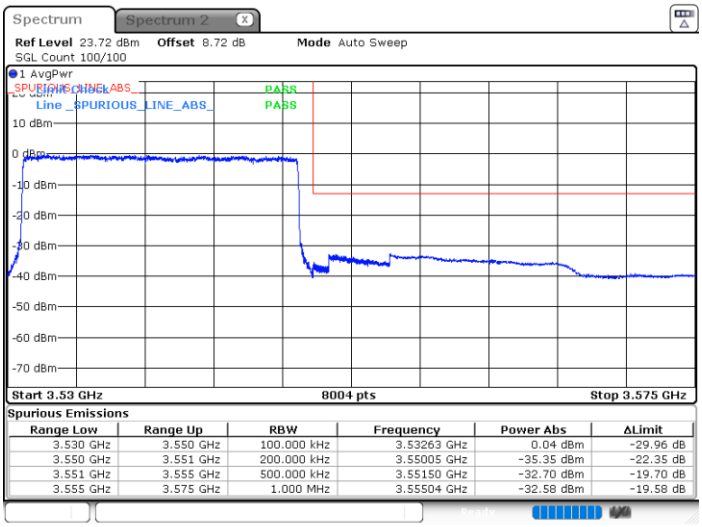


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.43384 GHz	-33.93 dBm	-20.93 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44895 GHz	-34.57 dBm	-21.57 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44998 GHz	-36.98 dBm	-23.98 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45300 GHz	-0.02 dBm	-30.02 dB

Date: 12.JUL.2024 19:59:05

Highest Channel / FullRB



Spurious Emissions

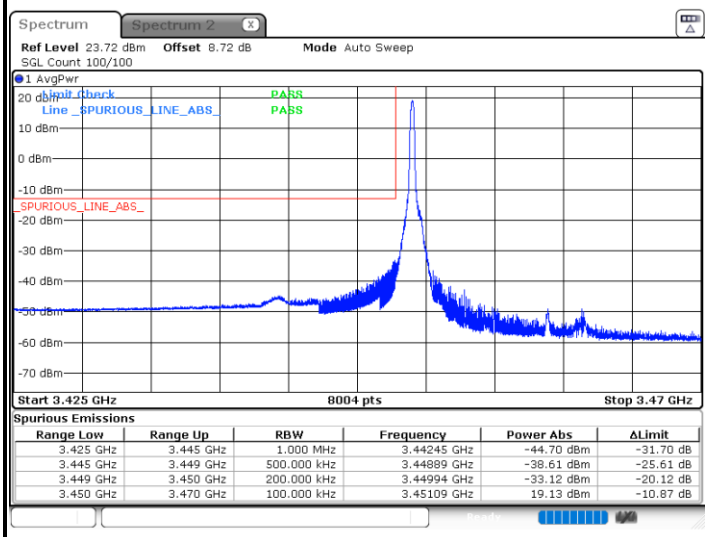
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.53263 GHz	0.04 dBm	-29.96 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55005 GHz	-35.35 dBm	-22.35 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55150 GHz	-32.70 dBm	-19.70 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55504 GHz	-32.58 dBm	-19.58 dB

Date: 12.JUL.2024 20:12:58

LTE Band 42 / 20MHz

16QAM

Lowest Channel / 1RB0

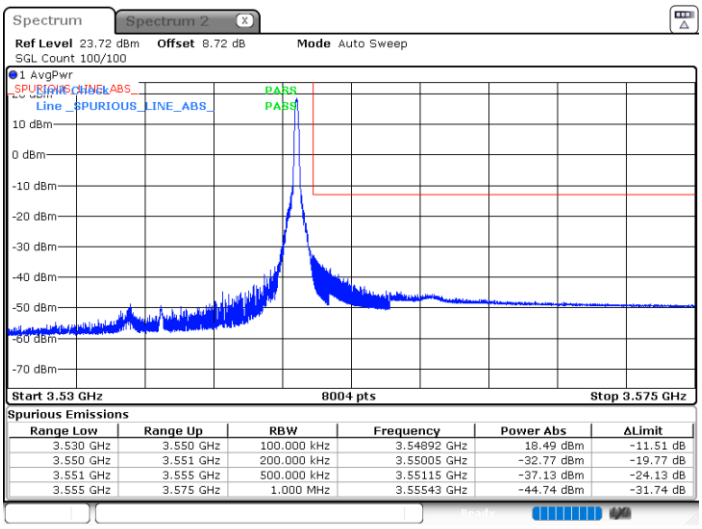


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44245 GHz	-44.70 dBm	-31.70 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44889 GHz	-38.61 dBm	-25.61 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44994 GHz	-33.12 dBm	-20.12 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45109 GHz	19.13 dBm	-10.87 dB

Date: 12.JUL.2024 20:02:59

Highest Channel / 1RBmax

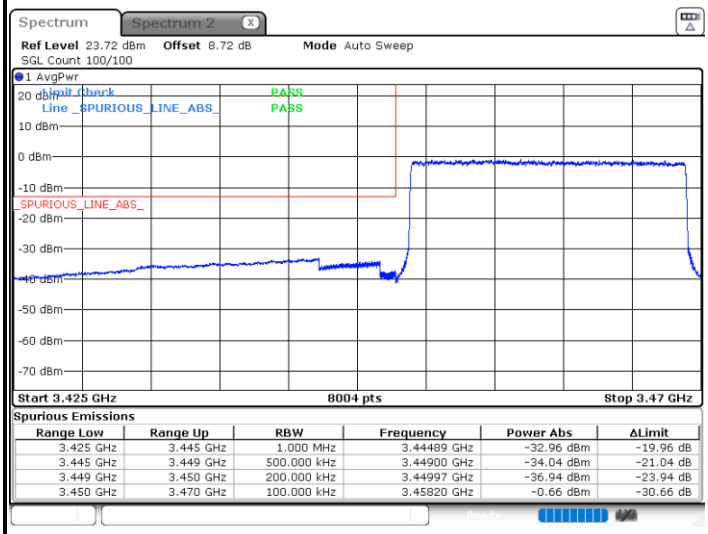


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54892 GHz	18.49 dBm	-11.51 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55005 GHz	-32.77 dBm	-19.77 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55115 GHz	-37.13 dBm	-24.13 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55543 GHz	-44.74 dBm	-31.74 dB

Date: 12.JUL.2024 20:10:09

Lowest Channel / FullRB

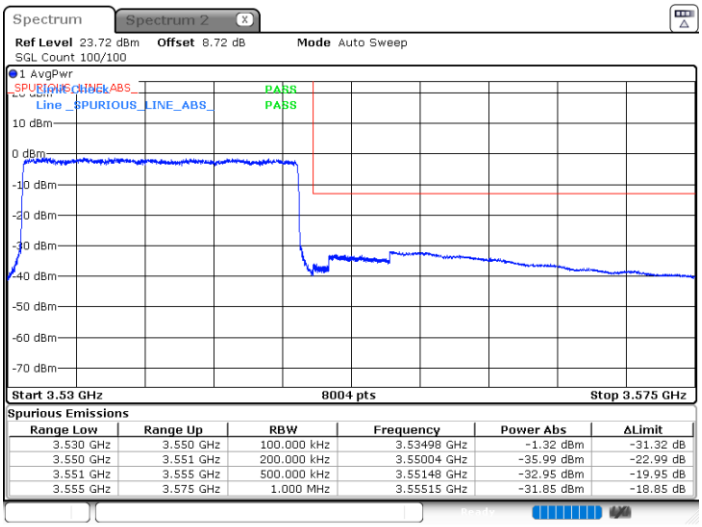


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44489 GHz	-32.96 dBm	-19.96 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44900 GHz	-34.04 dBm	-21.04 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44997 GHz	-36.94 dBm	-23.94 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45820 GHz	-0.66 dBm	-30.66 dB

Date: 12.JUL.2024 19:59:51

Highest Channel / FullRB



Spurious Emissions

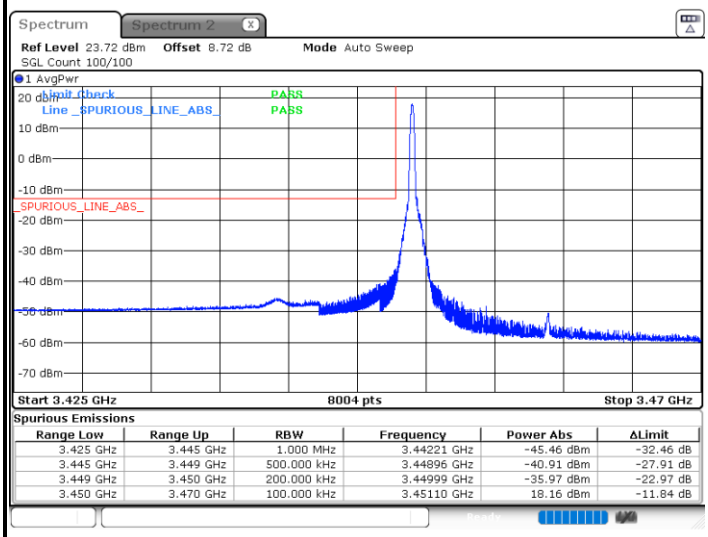
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.53498 GHz	-1.32 dBm	-31.32 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55004 GHz	-35.99 dBm	-22.99 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55148 GHz	-32.95 dBm	-19.95 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55515 GHz	-31.85 dBm	-18.85 dB

Date: 12.JUL.2024 20:13:44

LTE Band 42 / 20MHz

64QAM

Lowest Channel / 1RB0

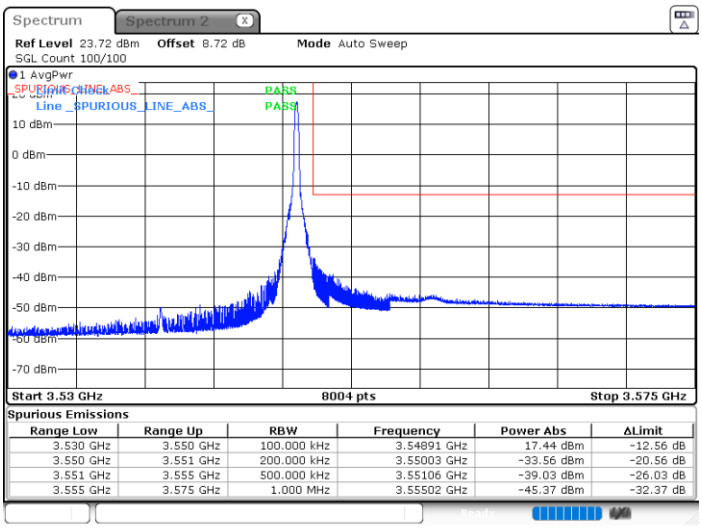


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44221 GHz	-45.46 dBm	-32.46 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44896 GHz	-40.91 dBm	-27.91 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44999 GHz	-35.97 dBm	-22.97 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45110 GHz	18.16 dBm	-11.84 dB

Date: 12.JUL.2024 20:03:46

Highest Channel / 1RBmax

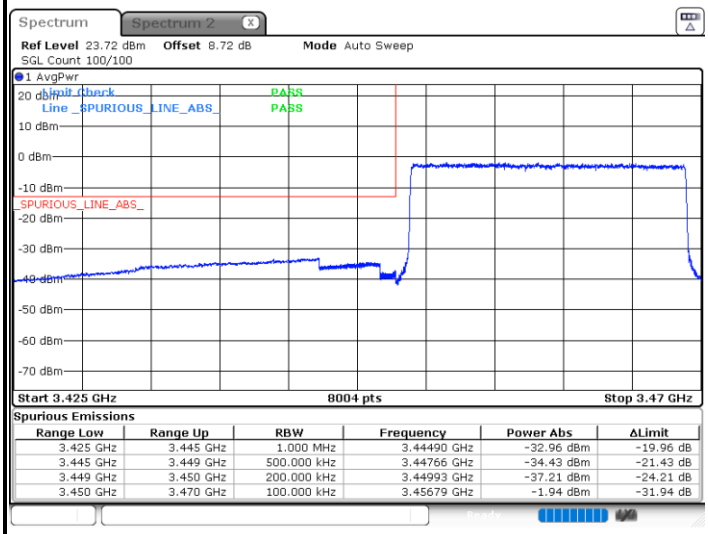


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54891 GHz	17.44 dBm	-12.56 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55003 GHz	-33.56 dBm	-20.56 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55106 GHz	-39.03 dBm	-26.03 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55502 GHz	-45.37 dBm	-32.37 dB

Date: 12.JUL.2024 20:10:56

Lowest Channel / FullRB

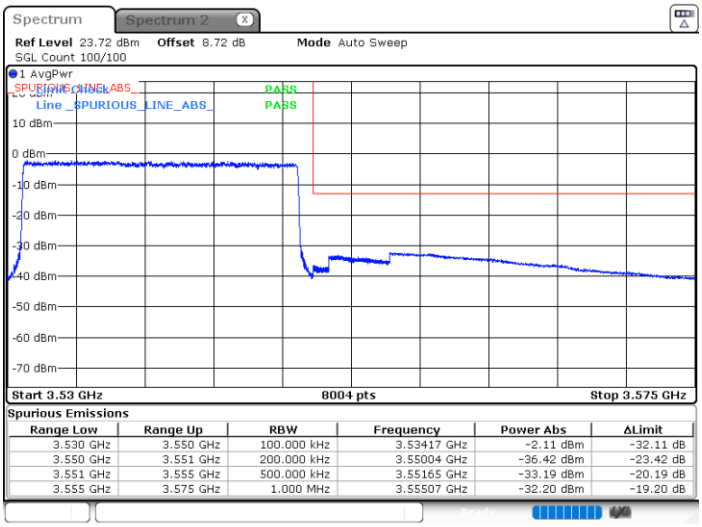


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44490 GHz	-32.96 dBm	-19.96 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44766 GHz	-34.43 dBm	-21.43 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44993 GHz	-37.21 dBm	-24.21 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45679 GHz	-1.94 dBm	-31.94 dB

Date: 12.JUL.2024 20:00:37

Highest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.53417 GHz	-2.11 dBm	-32.11 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55004 GHz	-36.42 dBm	-23.42 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55165 GHz	-33.19 dBm	-20.19 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55507 GHz	-32.20 dBm	-19.20 dB

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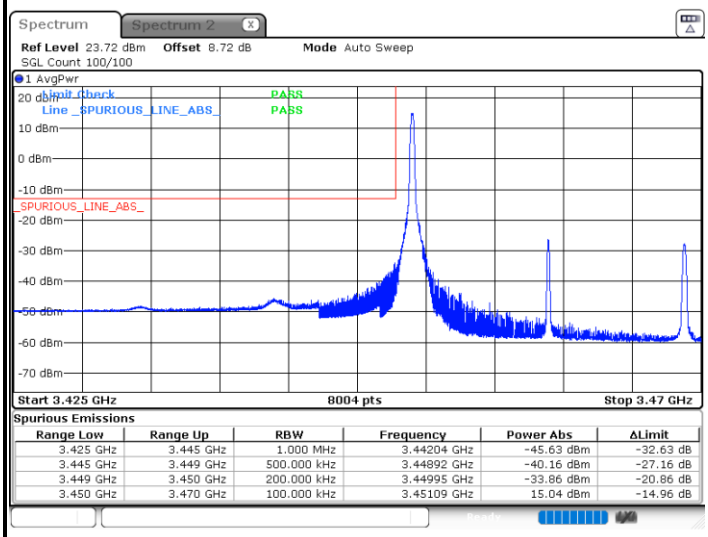
LTE Band 42 / 20MHz

256QAM

Lowest Channel / 1RB0



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44204 GHz	-45.63 dBm	-32.63 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44892 GHz	-40.16 dBm	-27.16 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44995 GHz	-33.86 dBm	-20.86 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45109 GHz	15.04 dBm	-14.96 dB

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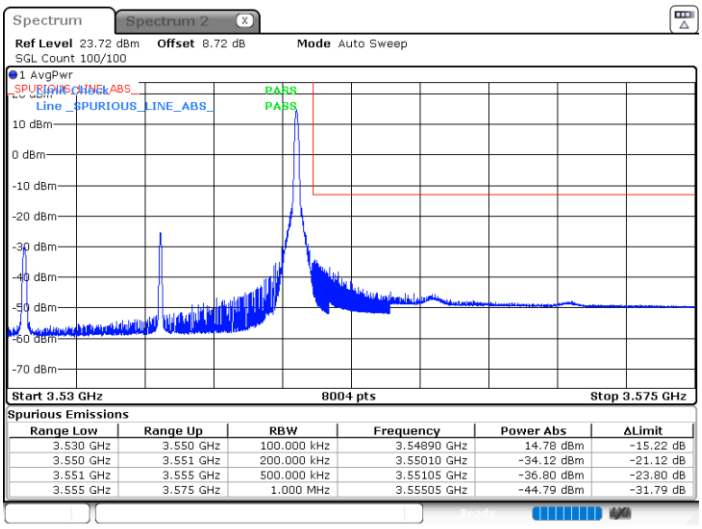
Highest Channel / 1RBmax



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54890 GHz	14.78 dBm	-15.22 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55010 GHz	-34.12 dBm	-21.12 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55105 GHz	-36.80 dBm	-23.80 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55505 GHz	-44.79 dBm	-31.79 dB

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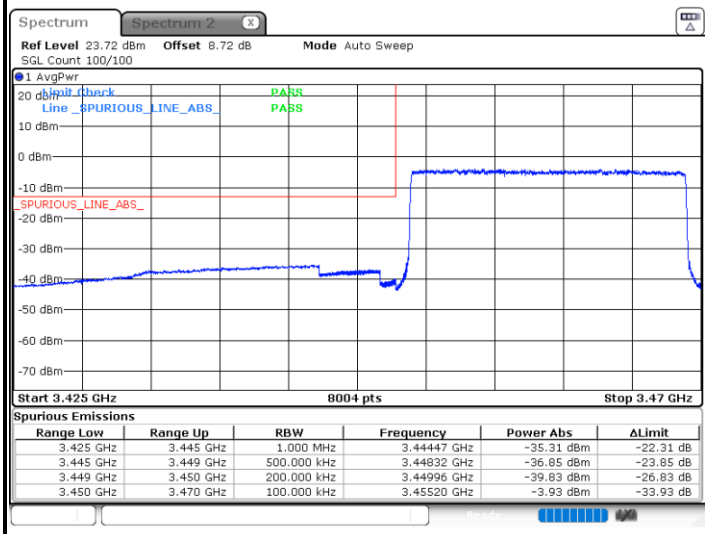
Lowest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44447 GHz	-35.31 dBm	-22.31 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44832 GHz	-36.85 dBm	-23.85 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44996 GHz	-39.83 dBm	-26.83 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45520 GHz	-3.93 dBm	-33.93 dB

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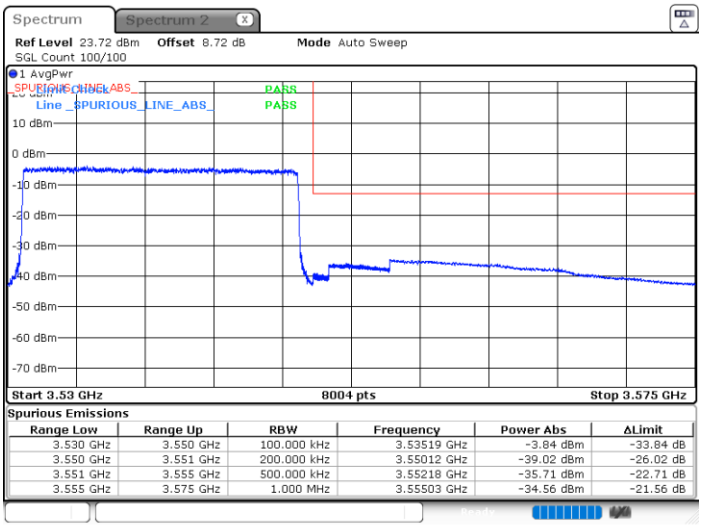
Highest Channel / FullRB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.53519 GHz	-3.84 dBm	-33.84 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55012 GHz	-39.02 dBm	-26.02 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55218 GHz	-35.71 dBm	-22.71 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55503 GHz	-34.56 dBm	-21.56 dB

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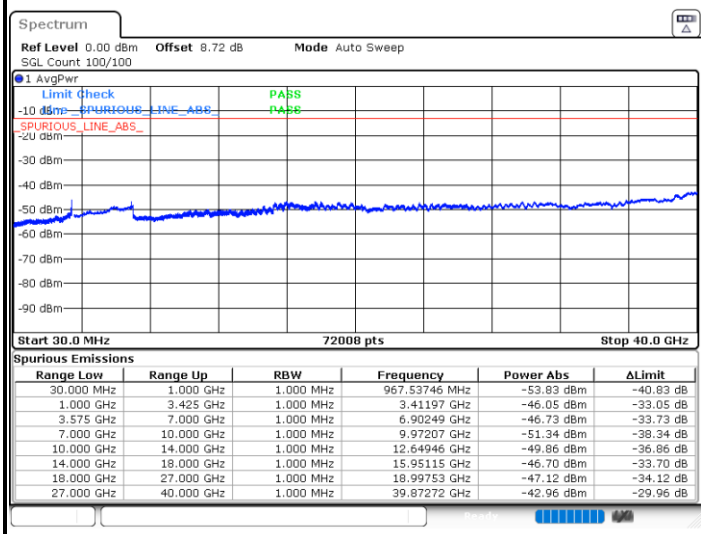
Conducted Spurious Emission

LTE Band 42/ 5MHz

QPSK / 1RB0

Lowest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	967.53746 MHz	-53.83 dBm	-40.83 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.41197 GHz	-46.05 dBm	-33.05 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.90249 GHz	-46.73 dBm	-33.73 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.97207 GHz	-51.34 dBm	-38.34 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.64946 GHz	-49.86 dBm	-36.86 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.95115 GHz	-46.70 dBm	-33.70 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.99753 GHz	-47.12 dBm	-34.12 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.87272 GHz	-42.96 dBm	-29.96 dB

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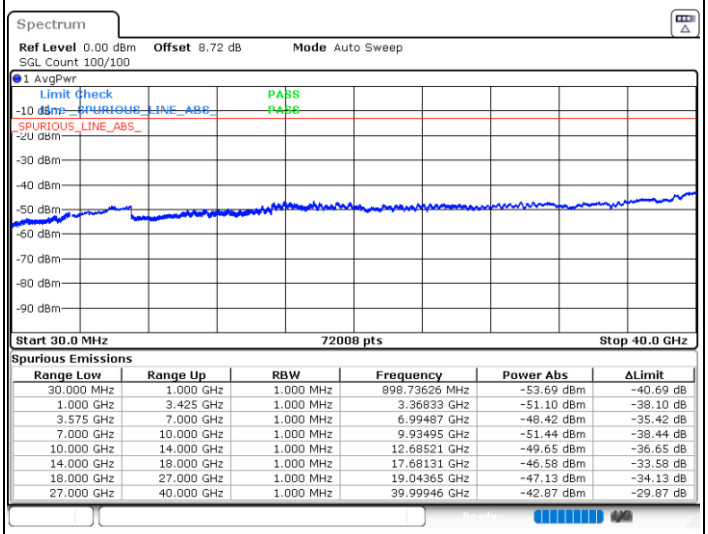
Middle Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	898.73626 MHz	-53.69 dBm	-40.69 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.36833 GHz	-51.10 dBm	-38.10 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.99487 GHz	-48.42 dBm	-35.42 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.93495 GHz	-51.44 dBm	-38.44 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.68521 GHz	-49.65 dBm	-36.65 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.68131 GHz	-46.58 dBm	-33.58 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.04365 GHz	-47.13 dBm	-34.13 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.99946 GHz	-42.87 dBm	-29.87 dB

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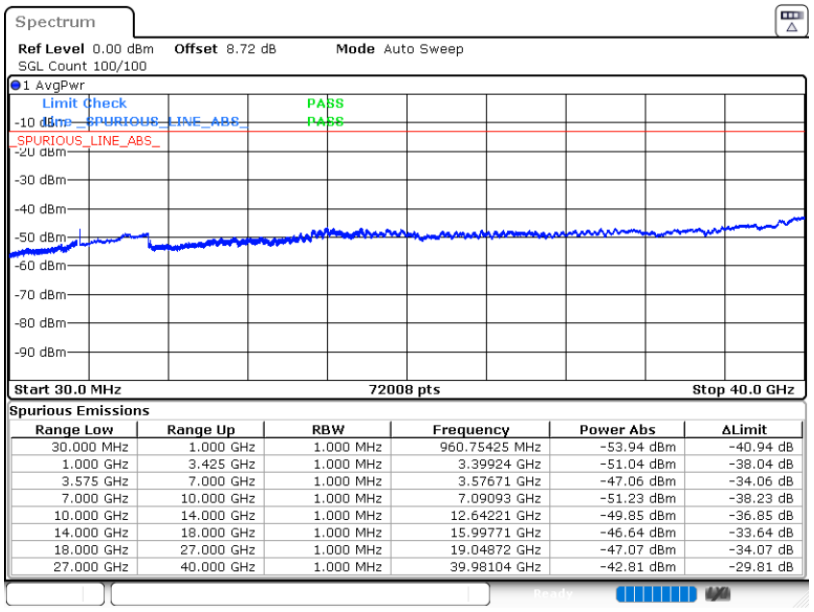
Highest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	960.75425 MHz	-53.94 dBm	-40.94 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.39924 GHz	-51.04 dBm	-38.04 dB
3.575 GHz	7.000 GHz	1.000 MHz	3.57671 GHz	-47.06 dBm	-34.06 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.09093 GHz	-51.23 dBm	-38.23 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.64221 GHz	-49.85 dBm	-36.85 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.99771 GHz	-46.64 dBm	-33.64 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.04872 GHz	-47.07 dBm	-34.07 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.98104 GHz	-42.81 dBm	-29.81 dB

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