

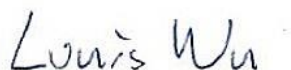


FCC RADIO TEST REPORT

FCC ID : UZ7EC55AK
Equipment : Enterprise Computer
Brand Name : Zebra
Model Name : EC55AK
Applicant : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Manufacturer : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Standard : FCC 47 CFR Part 2, 90(R)

The product was received on Sep. 14, 2020 and testing was started from Sep. 21, 2020 and completed on Oct. 12, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

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



Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Product Specification of Equipment Under Test.....	6
1.3 Modification of EUT	6
1.4 Emission Designator	6
1.5 Testing Site	7
1.6 Applied Standards	7
2 Test Configuration of Equipment Under Test	8
2.1 Test Mode	8
2.2 Connection Diagram of Test System.....	9
2.3 Support Unit used in test configuration and system	9
2.4 Measurement Results Explanation Example.....	9
2.5 Frequency List of Low/Middle/High Channels	10
3 Conducted Test Items	11
3.1 Measuring Instruments	11
3.2 Conducted Output Power Measurement and ERP	12
3.3 Peak-to-Average Ratio	13
3.4 Occupied Bandwidth	14
3.5 Conducted Band Edge	15
3.6 Emission Mask.....	16
3.7 Conducted Spurious Emission	17
3.8 Frequency Stability	18
4 Radiated Test Items	19
4.1 Measuring Instruments	19
4.2 Radiated Spurious Emission	21
5 List of Measuring Equipment.....	22
6 Uncertainty of Evaluation	23
Appendix A. Test Results of Conducted Test	
Appendix B. Test Results of ERP and Radiated Test	
Appendix C. Test Setup Photographs	



History of this test report

Report No.	Version	Description	Issued Date
FG070401C	01	Initial issue of report	Oct. 27, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§90.542 (a)(7)	Effective Radiated Power	Pass	-
3.3	-	Peak-to-Average Ratio	Reporting only	-
3.4	§2.1049	Occupied Bandwidth	Reporting only	-
3.5	§2.1053 §90.543 (e)(2)	Conducted Band Edge Measurement	Pass	-
3.6	§2.1051 §90.210 (n)	Emission Mask	Pass	-
3.7	§2.1053 §90.543 (e)(3)	Conducted Spurious Emission	Pass	-
3.8	§2.1055 §90.539 (e)	Frequency Stability Temperature & Voltage	Pass	-
4.2	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission	Pass	Under limit 11.40 dB at 1576.000 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Amy Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Enterprise Computer
Brand Name	Zebra
Model Name	EC55AK
FCC ID	UZ7EC55AK
EUT supports Radios application	WCDMA/HSPA/LTE/NFC/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
HW Version	EV2
SW Version	Android version 10
FW Version	10-13-12.00-QG-U00-PRD-HEL-04
MFD	22JUN20 17JUN20
EUT Stage	Engineering Sample

Remark: The above EUT's information was declared by manufacturer.

Specification of Accessories				
AC Adapter	Brand Name	Zebra	Part Number	PWR-WUA5V15W0US
USB TYPE-C to TYPE-C cable	Brand Name	Zebra	Part Number	CBL-EC5X-USBC3A-01
Battery 1	Brand Name	Zebra	Part Number	BT-000424-00
Battery 2	Brand Name	Zebra	Part Number	BT-000424-08
Earphone 1	Brand Name	Zebra	Part Number	HDST-35MM-PTVP-01
Earphone 2	Brand Name	Zebra	Part Number	HS2100-OTH
USB TYPE C to 3.5mm audio connector	Brand Name	Symbol	Part Number	ADP-USBC-35MM1-01
3.5mm Jack 43"(1.1m) Standard Cable	Brand Name	Zebra	Part Number	CBL-HS2100-3MS1-01
Trigger Handle	Brand Name	Zebra	Part Number	TRG-EC5X-SNP1-01
Soft Holster	Brand Name	Zebra	Part Number	SG-EC5X-HLSTR1-01
Protective Boot	Brand Name	Zebra	Part Number	SG-EC5X-BOOT1-01

Sample List				
	Sample 1	Sample 2	Sample 3	Sample 4
Operating System	ANDROID	ANDROID	ANDROID	ANDROID
RAM	3GB	3GB	4GB	4GB
FLASH	32GB	32GB	64GB	64GB
Scanner	NO	SE4100	SE4100	SE4100
Front Camera	5MP	NO	5MP	5MP
Rear Camera	13MP	13MP	13MP	13MP
	MICRO SD	MICRO SD	MICRO SD	MICRO SD
	GMS	GMS	GMS	GMS
Back connector	NO I/O CONNECTOR	2-PIN	2-PIN	8-PIN
	US	US	US	US

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	LTE Band 14: 790.5 MHz ~ 795.5 MHz
Rx Frequency	LTE Band 14: 760.5 MHz ~ 765.5 MHz
Bandwidth	LTE Band 14: 5MHz / 10MHz
Maximum Output Power to Antenna	LTE Band 14: 25.16dBm
Antenna Type	PIFA Antenna
Antenna Gain	LTE Band 14: 0.44 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

1.3 Modification of EUT

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

1.4 Emission Designator

LTE Band 14		QPSK			16QAM			64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	790.5 ~ 795.5	4M50G7D	-	0.2203	4M49W7D	-	0.1683	4M51W7D	-	0.1346
10	793	9M07G7D	0.0129	0.2213	9M07W7D	-	0.1648	8M99W7D	-	0.1327

1.5 Testing Site

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH05-HY
Test Engineer	Luffy Lin
Temperature	23~25°C
Relative Humidity	49~53%

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH11-HY
Test Engineer	JC Liang and Troye Hsieh
Temperature	20.1~21.3°C
Relative Humidity	65.9~69.8%

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

FCC Designation No.: TW1190 and TW0007

1.6 Applied Standards

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

- ♦ ANSI C63.26-2015
- ♦ FCC 47 CFR Part 2, Part 90(R)
- ♦ ANSI / TIA-603-E
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

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



2 Test Configuration of Equipment Under Test

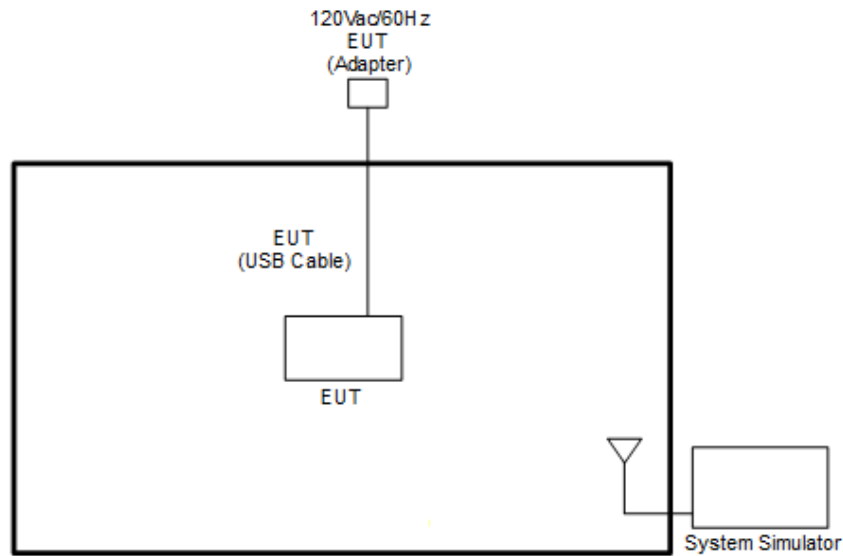
2.1 Test Mode

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

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z and SIM slot (SIM1 and eSIM). The worst cases (X plane) were recorded in this report.

Conducted Test Cases	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	14	-	-	V	V	-	-	V	V	V	V	V	V	V	V	V
Peak-to-Average Ratio	14	-	-		V	-	-	V	V	V	V		V		V	
26dB and 99% Bandwidth	14	-	-	V	V	-	-	V	V	V			V	V	V	V
Conducted Band Edge	14	-	-	V	V	-	-	V	V	V	V		V	V		V
Emission Mask	14	-	-	V	V	-	-	V	V	V	V		V	V	V	V
Conducted Spurious Emission	14	-	-	V	V	-	-	V	V	V	V			V	V	V
Frequency Stability	14	-	-		V	-	-	V					V		V	
E.R.P	14	-	-	V	V	-	-	V	V	V	V			V	V	V
Radiated Spurious Emission	14	Worst Case												V	V	V
Remark	1. The mark “V ” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. All the radiated test cases were performed with Battery 1, Earphone 2 and Sample 1.															

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

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

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.5 dB and 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

$$= 4.5 + 10 = 14.5 \text{ (dB)}$$

2.5 Frequency List of Low/Middle/High Channels

LTE Band 14 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23330	-
	Frequency	-	793	-
5	Channel	23305	23330	23355
	Frequency	790.5	793	795.5

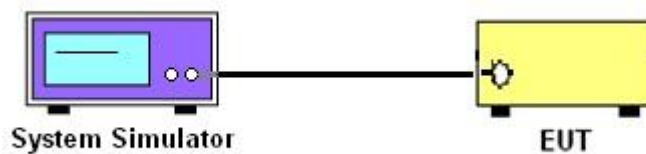
3 Conducted Test Items

3.1 Measuring Instruments

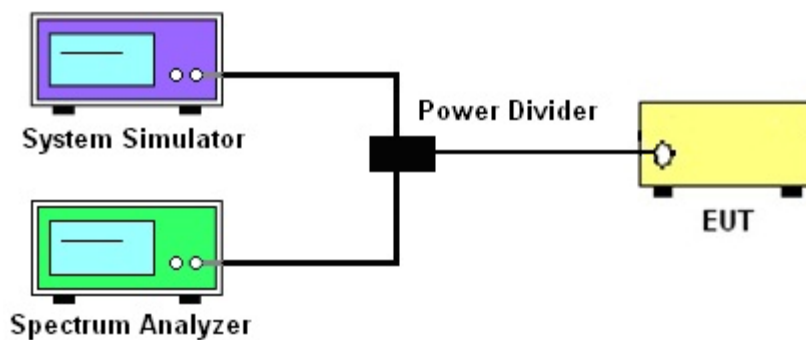
See list of measuring instruments of this test report.

3.1.1 Test Setup

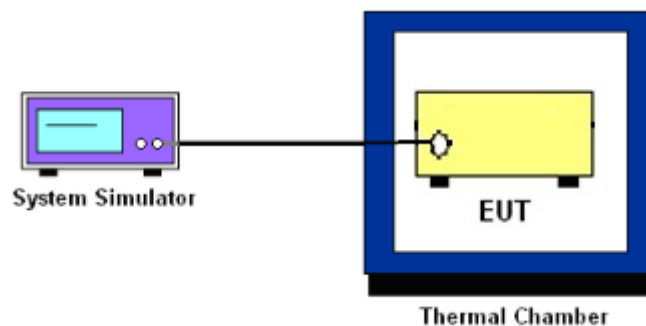
3.1.2 Conducted Output Power



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



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power Measurement and ERP

3.2.1 Description of the Conducted Output Power Measurement and ERP 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.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 14.

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.2.2 Test Procedures

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



3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

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

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

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

3.4 Occupied Bandwidth

3.4.1 Description of Occupied Bandwidth Measurement

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

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

3.4.2 Test Procedures

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

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

3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

90.543(e)

- (1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

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

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



3.6 Emission Mask

3.6.1 Description of Emissions Mask Measurement

Transmitters designed must meet the emission mask comply with the emission mask provisions of FCC Part 90.210(n).

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.0.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The power of the modulated signal was measured on a spectrum analyzer using an RMS and 10 second sweep time in order to maximize the level.
3. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

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

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

3.7.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

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

3.8 Frequency Stability

3.8.1 Description of Frequency Stability Measurement

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

3.8.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

3.8.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at 20±5° C and connected with the base station.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

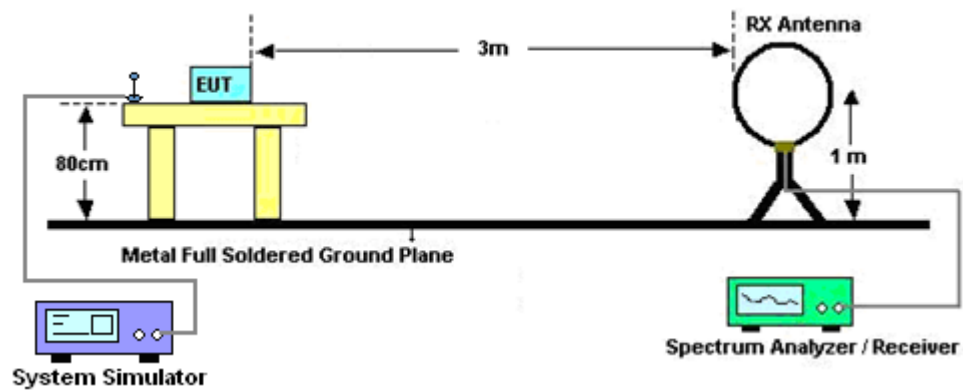
4 Radiated Test Items

4.1 Measuring Instruments

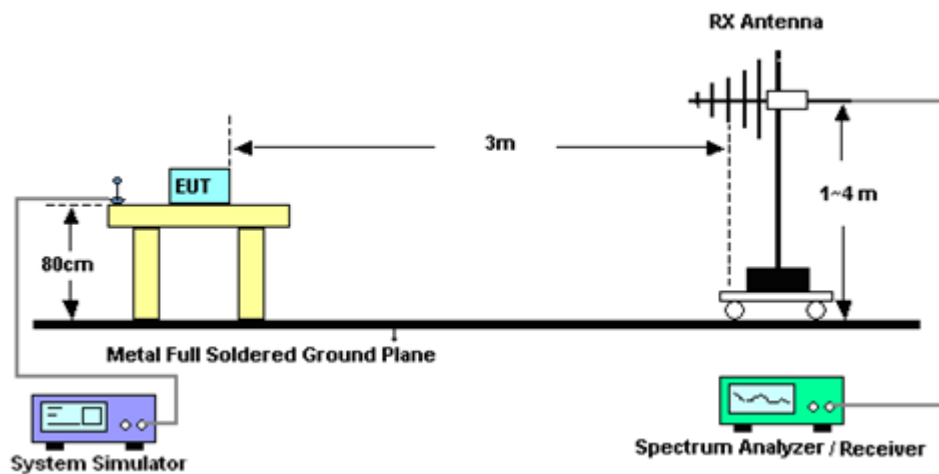
See list of measuring instruments of this test report.

4.1.1 Test Setup

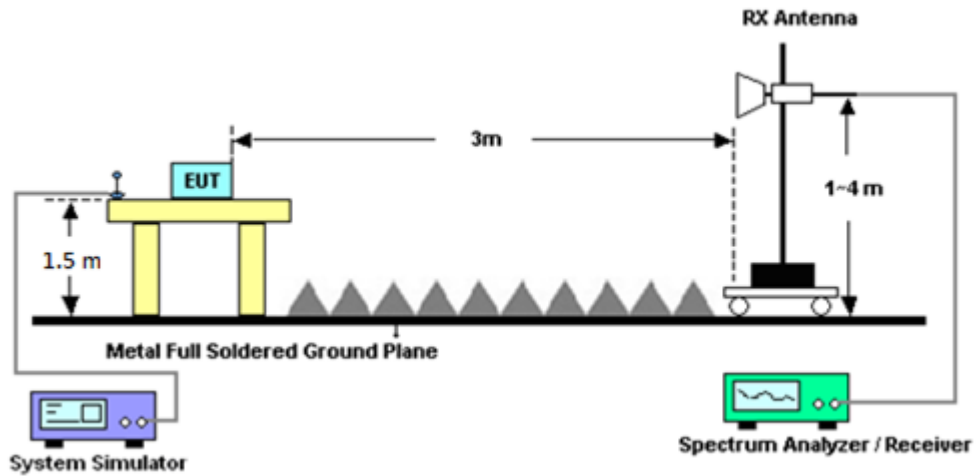
For radiated test below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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

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



4.2 Radiated Spurious Emission

4.2.1 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 must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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

4.2.2 Test Procedures

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

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
11. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 03, 2019	Sep. 26, 2020~ Sep. 29, 2020	Dec. 02, 2020	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 12, 2019	Sep. 26, 2020~ Sep. 29, 2020	Oct. 11, 2020	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Nov. 04, 2019	Sep. 26, 2020~ Sep. 29, 2020	Nov. 03, 2020	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 09, 2020	Sep. 26, 2020~ Sep. 29, 2020	Jan. 08, 2021	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 13, 2019	Sep. 26, 2020~ Sep. 29, 2020	Nov. 12, 2020	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Oct. 28, 2019	Sep. 26, 2020~ Sep. 29, 2020	Oct. 27, 2020	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000- 1530-8000-4 OSS	SN11	1.53G Low Pass	Sep. 14, 2020	Sep. 26, 2020~ Sep. 29, 2020	Sep. 13, 2021	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000- 1530-8000-4 OSS	SN11	1.53G Low Pass	Sep. 14, 2020	Sep. 26, 2020~ Sep. 29, 2020	Sep. 13, 2021	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-27 00-3000-180 00-60SS	SN3	3GHz High Pass	Sep. 14, 2020	Sep. 26, 2020~ Sep. 29, 2020	Sep. 13, 2021	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-27 00-3000-180 00-60SS	SN3	3GHz High Pass	Sep. 14, 2020	Sep. 26, 2020~ Sep. 29, 2020	Sep. 13, 2021	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Sep. 26, 2020~ Sep. 29, 2020	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500 -B	N/A	1~4m	N/A	Sep. 26, 2020~ Sep. 29, 2020	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Sep. 26, 2020~ Sep. 29, 2020	N/A	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY53290045	20MHz~8.4GHz	Jan. 18, 2020	Sep. 26, 2020~ Sep. 29, 2020	Jan. 17, 2021	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	Sep. 26, 2020~ Sep. 29, 2020	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz-30MHz	Mar. 12, 2020	Sep. 26, 2020~ Sep. 29, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 12, 2020	Sep. 26, 2020~ Sep. 29, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	30M-18G	Mar. 12, 2020	Sep. 26, 2020~ Sep. 29, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 12, 2020	Sep. 26, 2020~ Sep. 29, 2020	Mar. 11, 2021	Radiation (03CH11-HY)
SMB100A Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Feb. 15, 2020	Sep. 26, 2020~ Sep. 29, 2020	Feb. 14, 2021	Radiation (03CH11-HY)
Base Station(Measure)	Anritsu	MT8821C	6262002534 1	N/A	Oct. 24, 2019	Sep. 21, 2020~ Oct. 12, 2020	Oct. 23, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 15, 2019	Sep. 21, 2020~ Oct. 12, 2020	Nov. 14, 2020	Conducted (TH05-HY)
Thermal Chamber	Ten Billion	TTH-D3SP	TBN-930701	N/A	Aug. 05, 2020	Sep. 21, 2020~ Oct. 12, 2020	Aug. 04, 2021	Conducted (TH02-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890089	1V~20V 0.5A~5A	Feb. 21, 2020	Sep. 21, 2020~ Oct. 12, 2020	Feb. 20, 2021	Conducted (TH05-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#A	1-18GHz	Jan. 13, 2020	Sep. 21, 2020~ Oct. 12, 2020	Jan. 12, 2021	Conducted (TH05-HY)

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.29
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.32
--	------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.08
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Appendix A. Test Results of Conducted Test

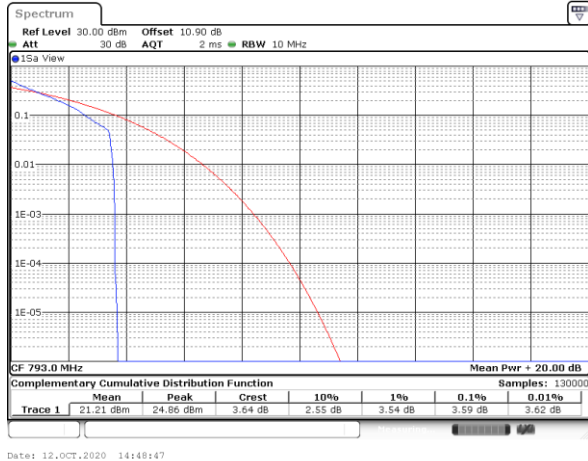
Conducted Output Power(Average power)

LTE Band 14 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	-	25.16	-
10	1	25			25.06	
10	1	49			25.03	
10	25	0			24.11	
10	25	12			24.00	
10	25	25			23.95	
10	50	0			23.91	
10	1	0	16-QAM		23.88	
10	1	25			23.87	
10	1	49			23.83	
10	25	0			23.06	
10	25	12			23.03	
10	25	25			23.00	
10	50	0			22.65	
10	1	0	64-QAM		22.93	
10	1	25			22.94	
10	1	49			22.94	
10	25	0			22.06	
10	25	12			21.99	
10	25	25			21.95	
10	50	0			21.91	
5	1	0	QPSK	25.13	25.12	25.14
5	1	12		25.05	25.01	25.01
5	1	24		25.03	24.97	24.97
5	12	0		24.11	24.17	24.08
5	12	7		23.95	24.06	24.03
5	12	13		23.88	23.90	23.90
5	25	0		23.72	23.83	23.80
5	1	0	16-QAM	23.88	23.93	23.97
5	1	12		23.72	23.84	23.90
5	1	24		23.66	23.76	23.79
5	12	0		23.04	23.05	23.07
5	12	7		22.97	23.02	22.96
5	12	13		22.88	22.91	22.80
5	25	0		22.59	22.70	22.66
5	1	0	64-QAM	22.93	23.00	22.95
5	1	12		22.93	22.87	22.96
5	1	24		22.92	22.78	22.73
5	12	0		22.12	22.12	22.06
5	12	7		22.00	21.96	21.99
5	12	13		21.87	21.93	21.82
5	25	0		21.89	21.82	21.86

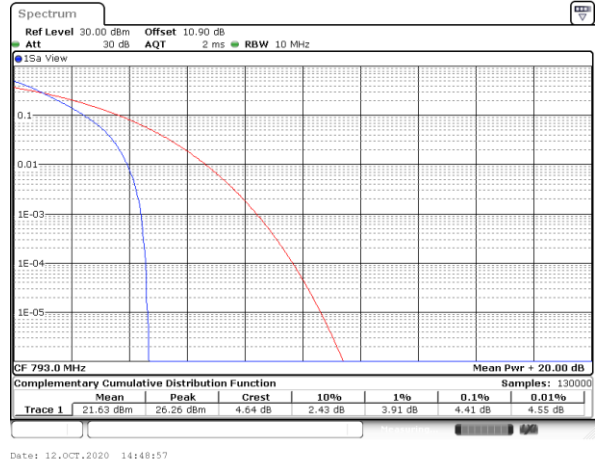
LTE Band 14

Peak-to-Average Ratio

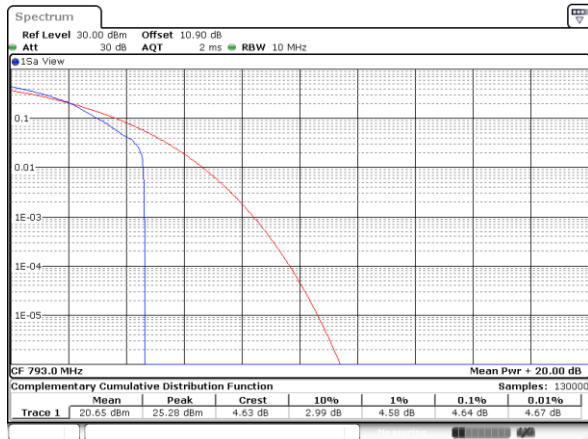
Mode	LTE Band 14 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.59	4.41	4.64	5.54	
Highest CH	-	-	-	-	
Mode	LTE Band 14 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	6.03	6.26	-	-	
Highest CH	-	-	-	-	

LTE Band 14 / 10MHz / QPSK
Middle Channel/ 1RB


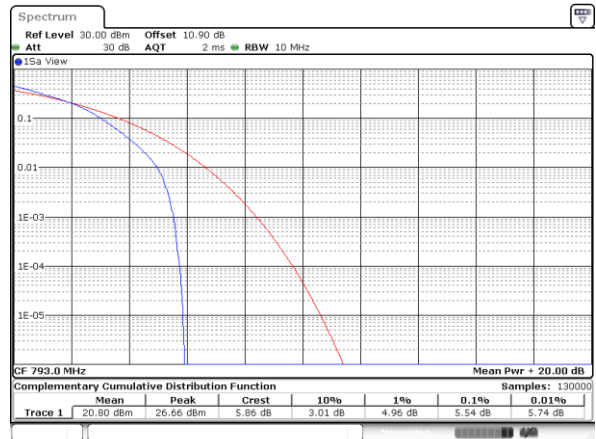
Date: 12.OCT.2020 14:48:47

Middle Channel / Full RB


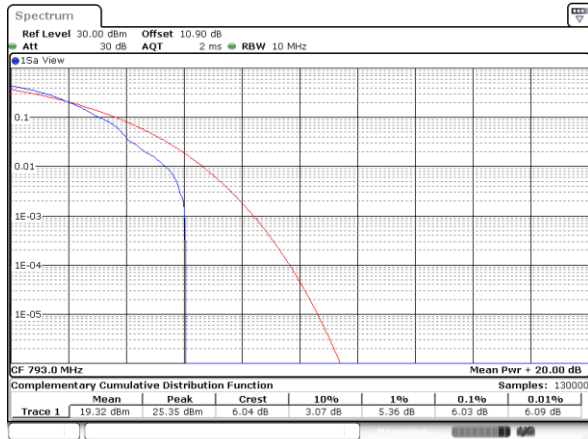
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LTE Band 14 / 10MHz / 16QAM
Middle Channel/ 1RB


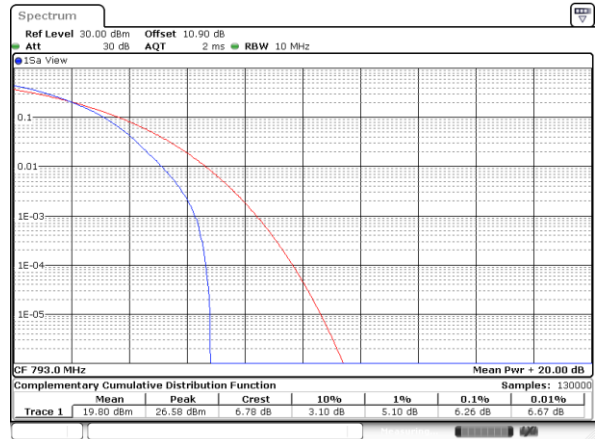
Date: 12.OCT.2020 14:48:21

Middle Channel / Full RB


Date: 12.OCT.2020 14:48:36

LTE Band 14 / 10MHz / 64QAM
Middle Channel/ 1RB


Date: 12.OCT.2020 14:48:00

Middle Channel / Full RB


Date: 12.OCT.2020 14:48:10

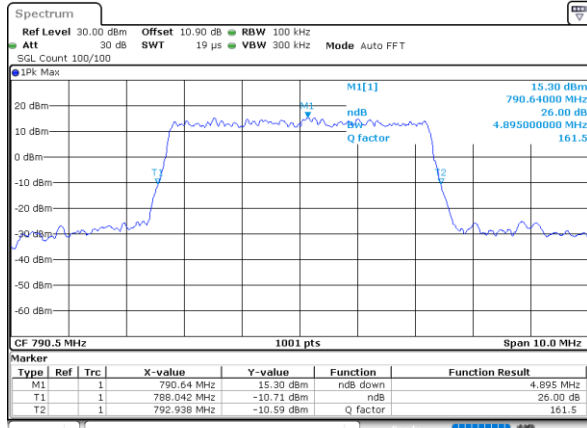
**26dB Bandwidth**

Mode	LTE Band 14 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.90	4.87	-	-	-	-	-	-
Middle CH	-	-	-	-	4.88	4.91	9.79	9.79	-	-	-	-
Highest CH	-	-	-	-	4.93	4.93	-	-	-	-	-	-
Mode	LTE Band 14 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.89	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.90	-	9.81	-	-	-	-	-
Highest CH	-	-	-	-	4.94	-	-	-	-	-	-	-



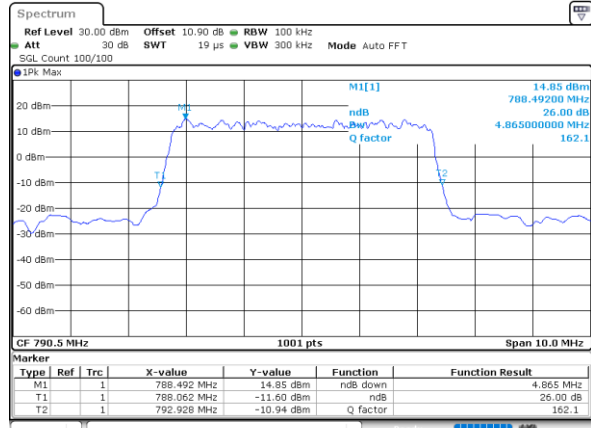
LTE Band 14

Lowest Channel / 5MHz / QPSK



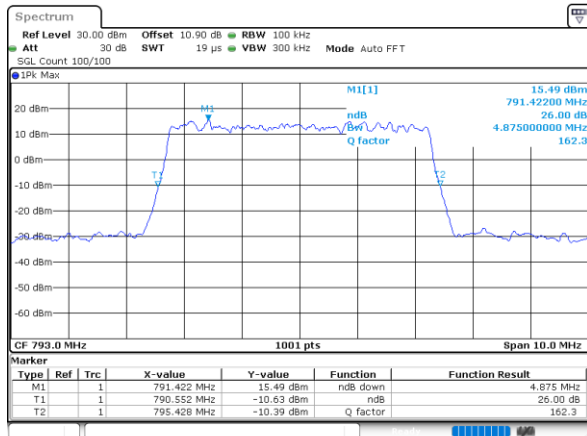
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Lowest Channel / 5MHz / 16QAM



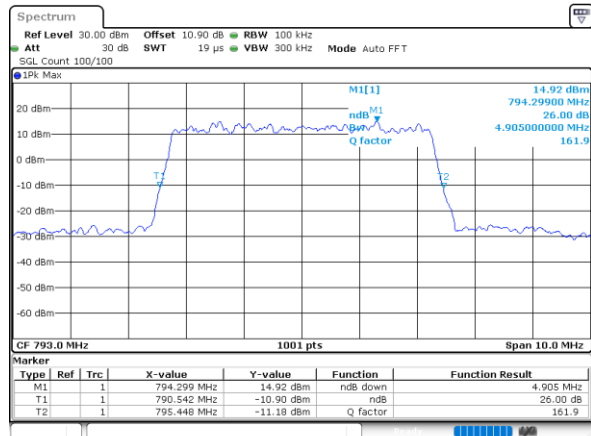
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Middle Channel / 5MHz / QPSK



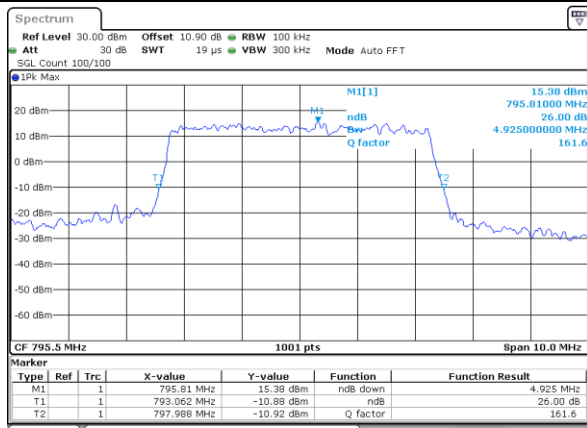
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Middle Channel / 5MHz / 16QAM



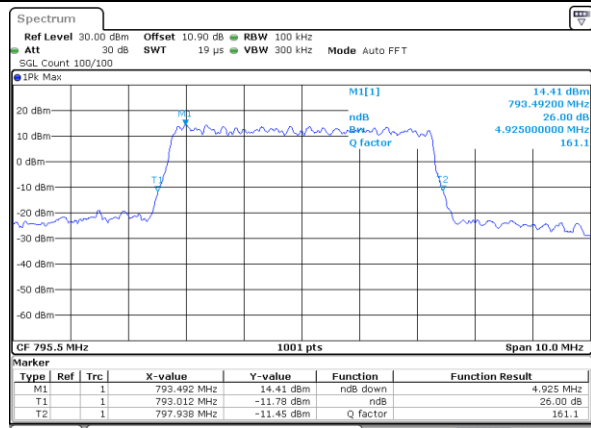
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Highest Channel / 5MHz / QPSK



Date: 12.OCT.2020 13:43:19

Highest Channel / 5MHz / 16QAM

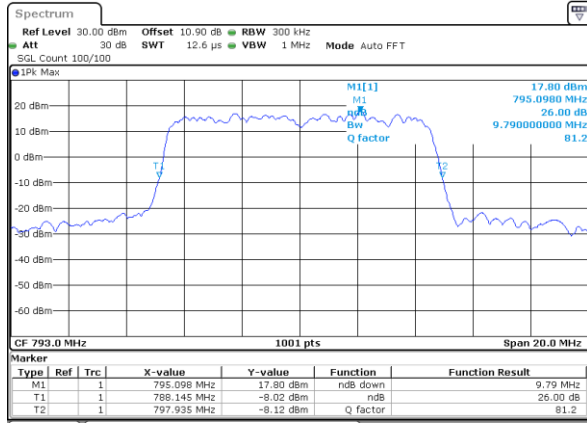


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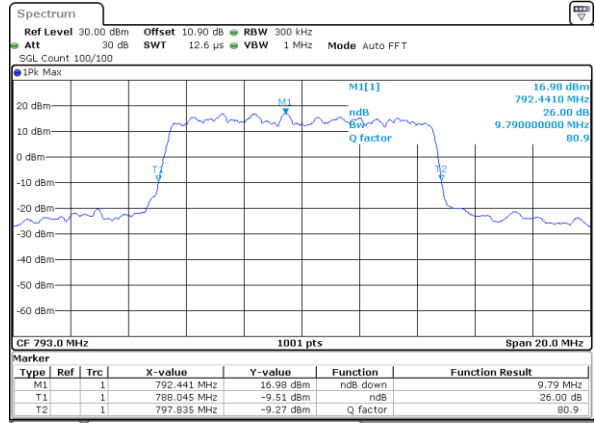
LTE Band 14

Middle Channel / 10MHz / QPSK



Date: 12.OCT.2020 14:02:46

Middle Channel / 10MHz / 16QAM

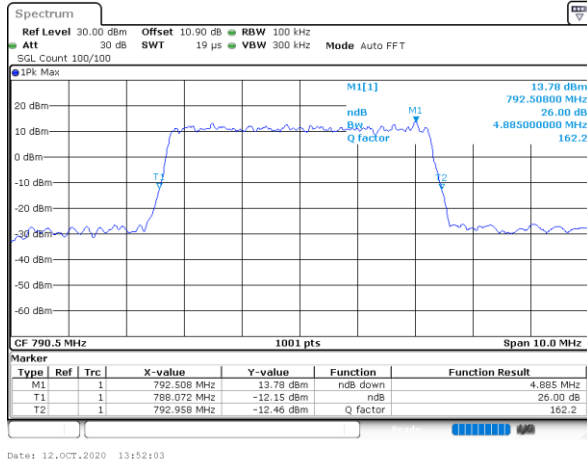


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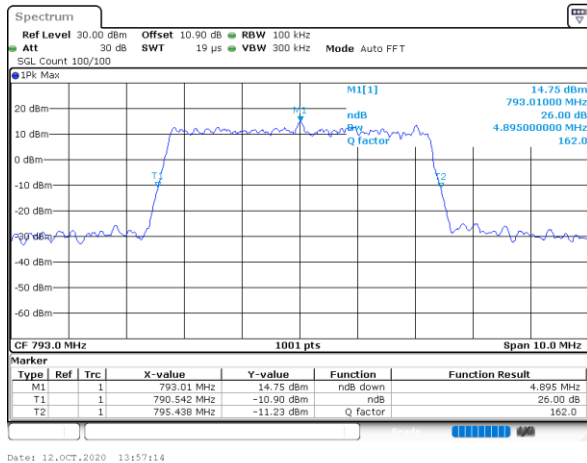


LTE Band 14

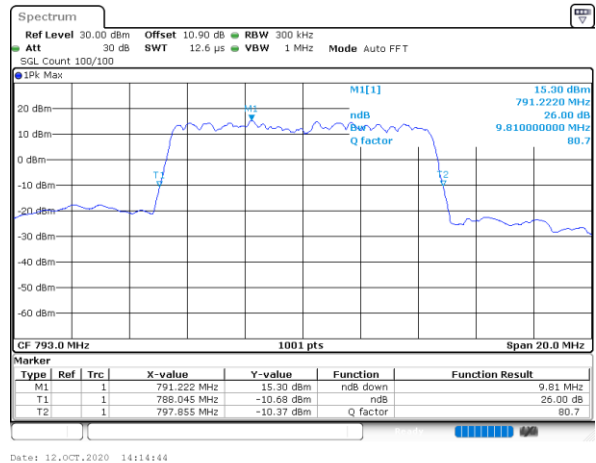
Lowest Channel / 5MHz / 64QAM



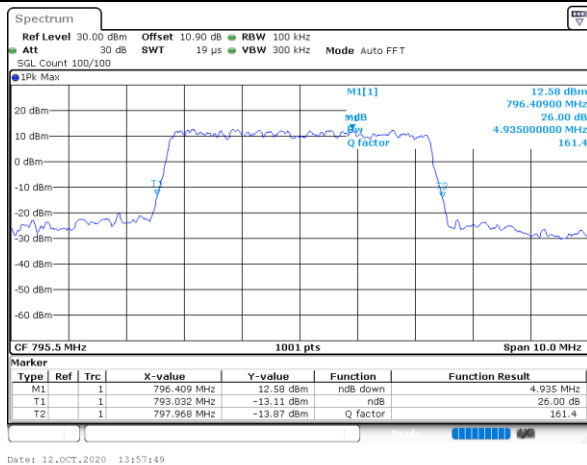
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



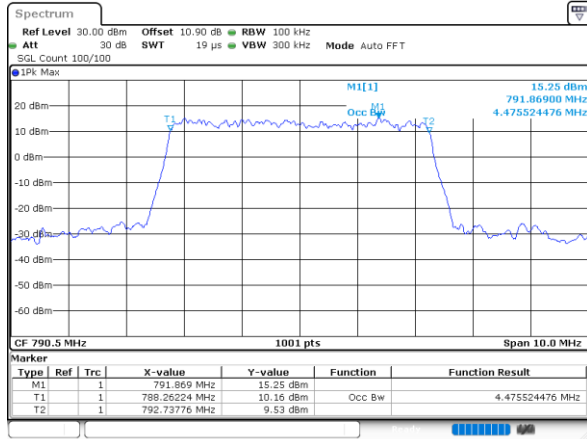
**Occupied Bandwidth**

Mode	LTE Band 14 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.48	4.48	-	-	-	-	-	-
Middle CH	-	-	-	-	4.50	4.49	9.07	9.07	-	-	-	-
Highest CH	-	-	-	-	4.49	4.49	-	-	-	-	-	-
Mode	LTE Band 14 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.51	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.49	-	8.99	-	-	-	-	-
Highest CH	-	-	-	-	4.50	-	-	-	-	-	-	-

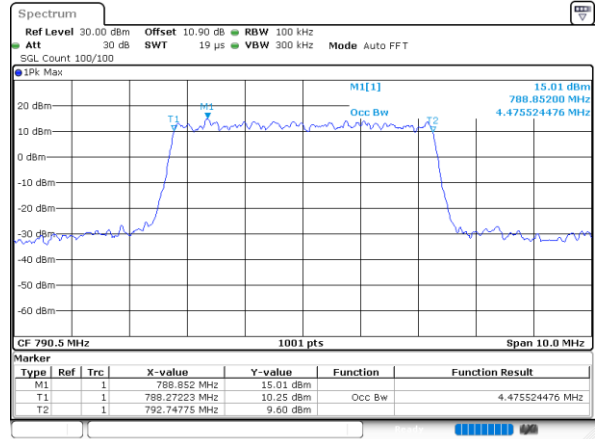


LTE Band 14

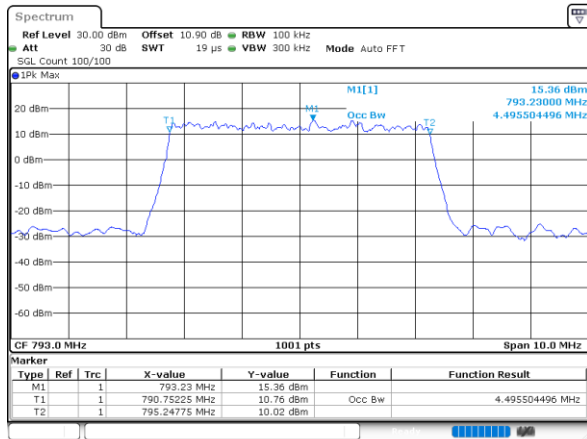
Lowest Channel / 5MHz / QPSK



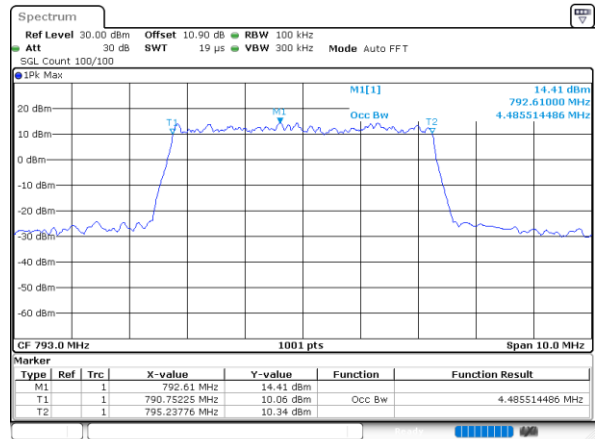
Lowest Channel / 5MHz / 16QAM



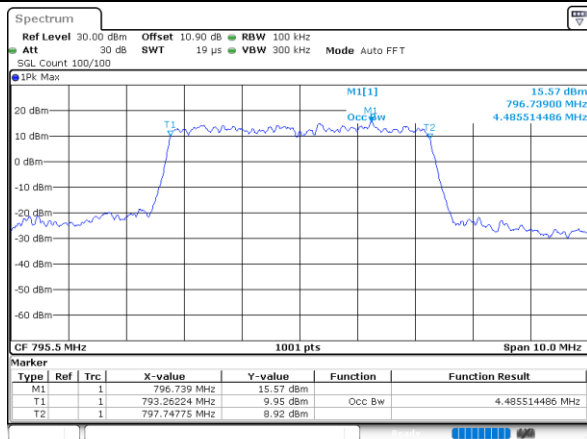
Middle Channel / 5MHz / QPSK



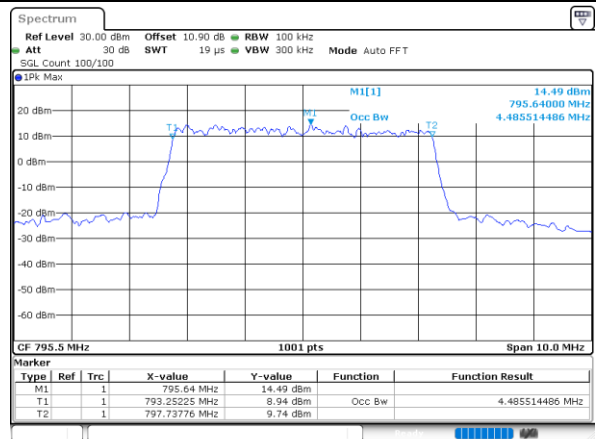
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



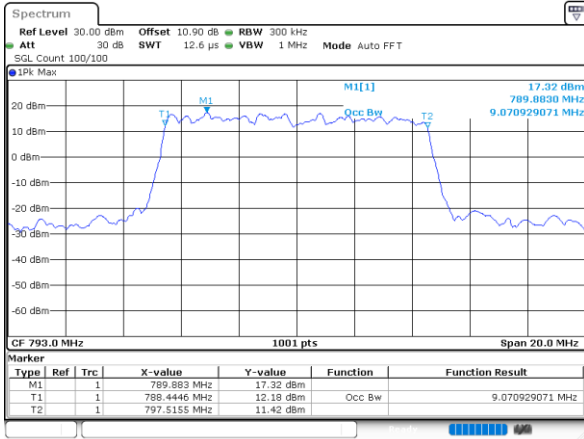
Highest Channel / 5MHz / 16QAM





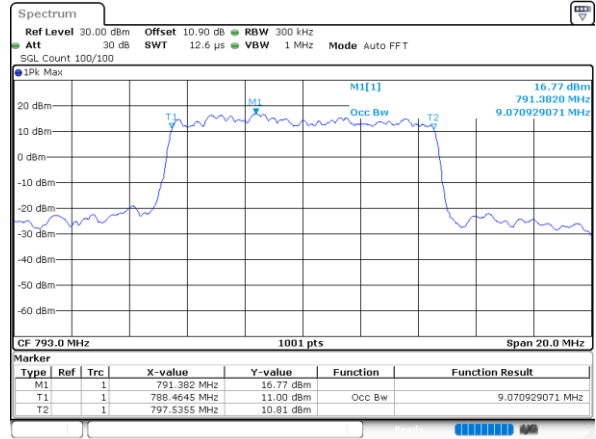
LTE Band 14

Middle Channel / 10MHz / QPSK



Date: 12.OCT.2020 14:02:11

Middle Channel / 10MHz / 16QAM

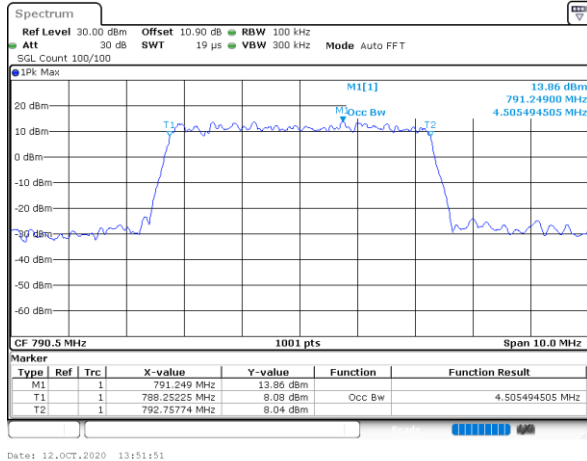


Date: 12.OCT.2020 14:02:23

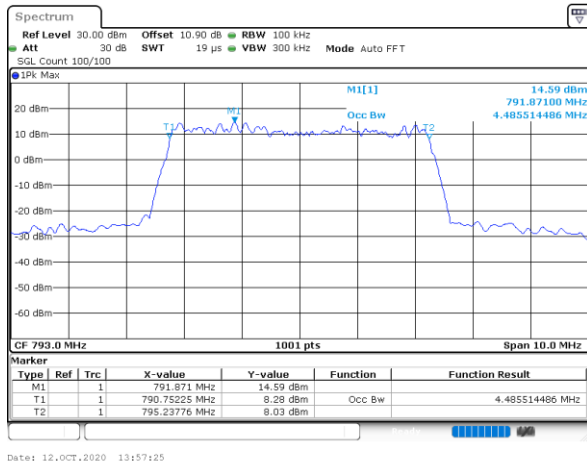


LTE Band 14

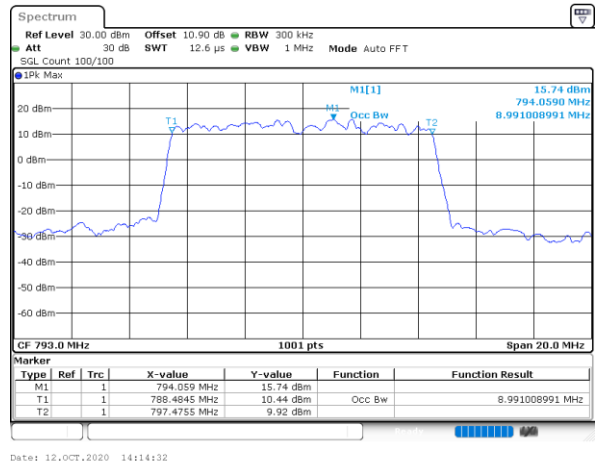
Lowest Channel / 5MHz / 64QAM



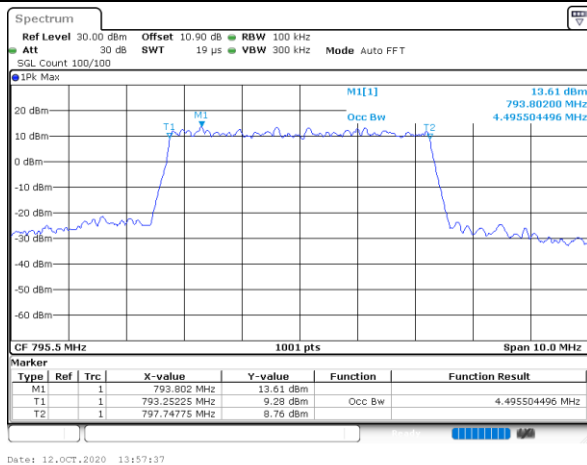
Middle Channel / 5MHz / 64QAM

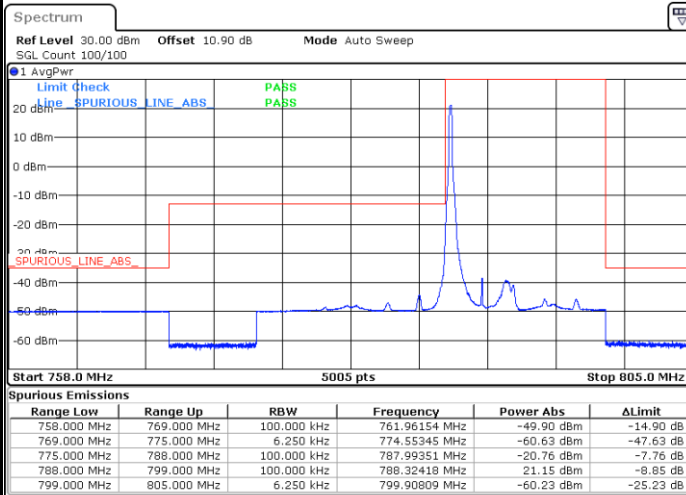
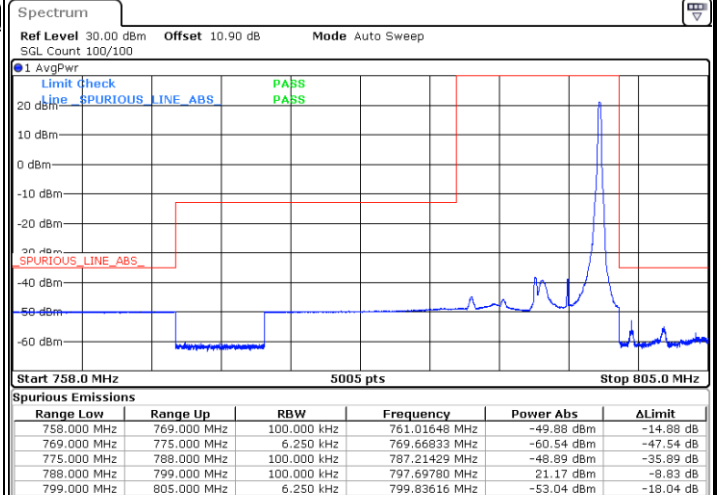
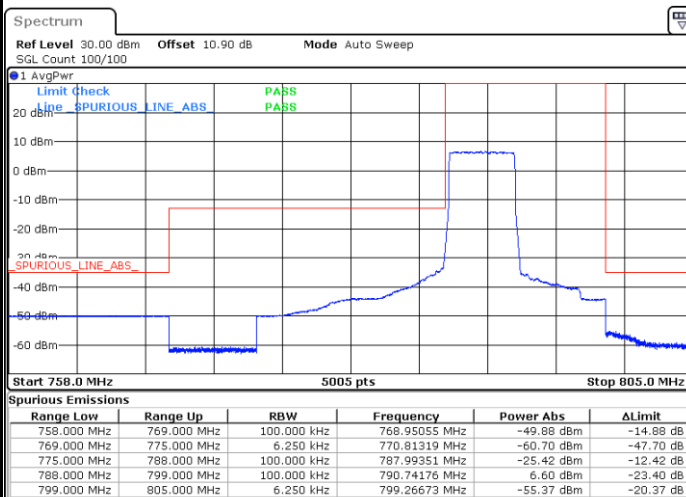
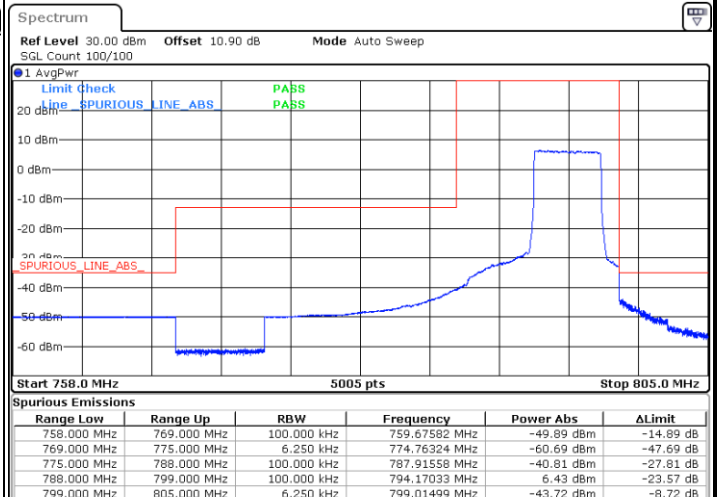


Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

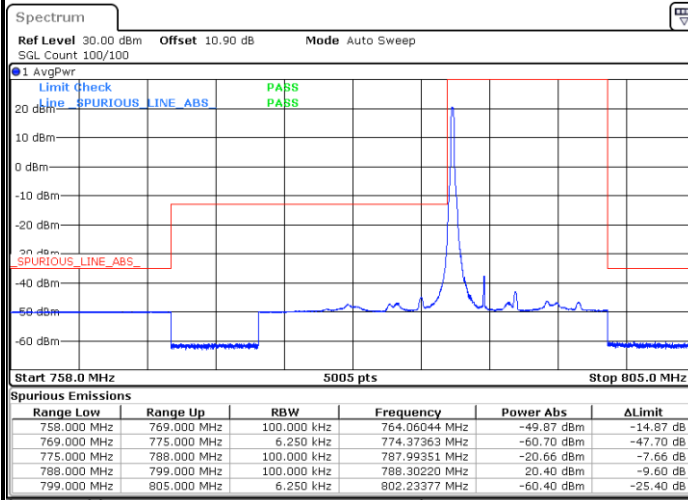


**Conducted Band Edge****LTE Band 14 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

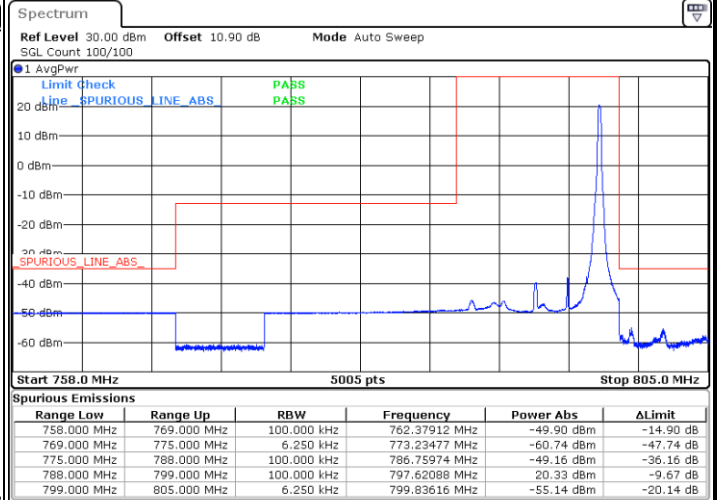


LTE Band 14 / 5MHz / 16QAM

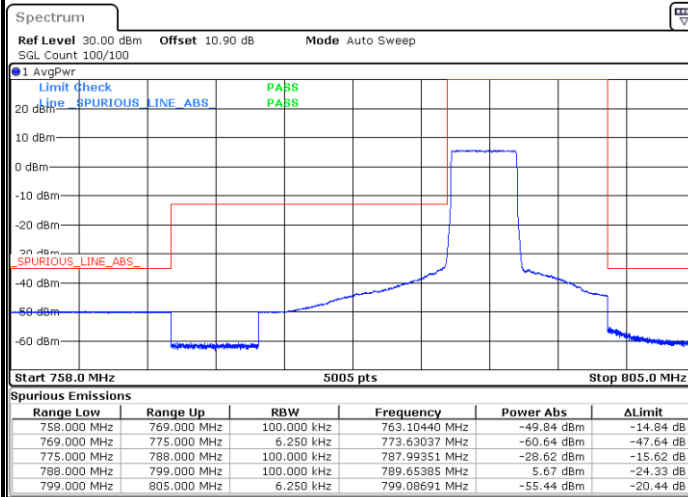
Lowest Band Edge /1 RB



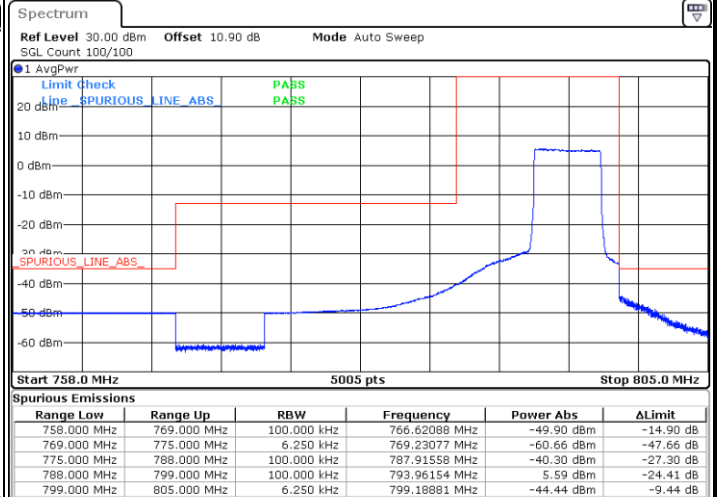
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



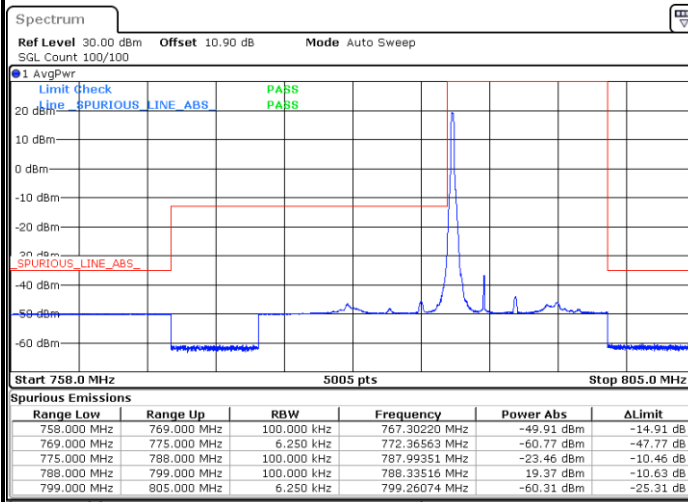
Highest Band Edge / Full RB



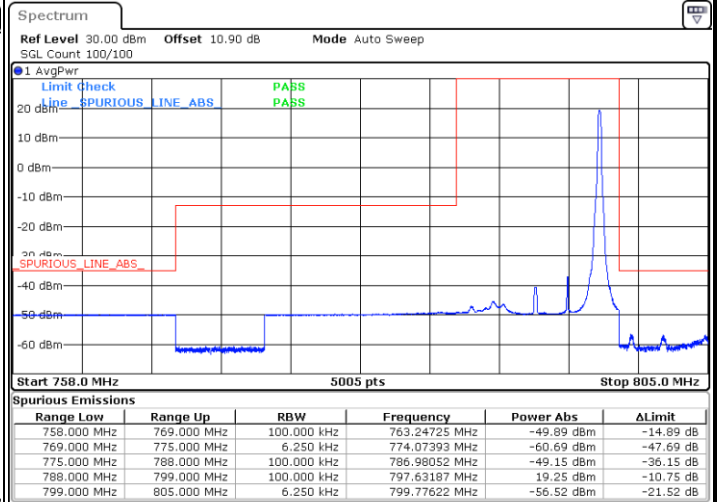


LTE Band 14 / 5MHz / 64QAM

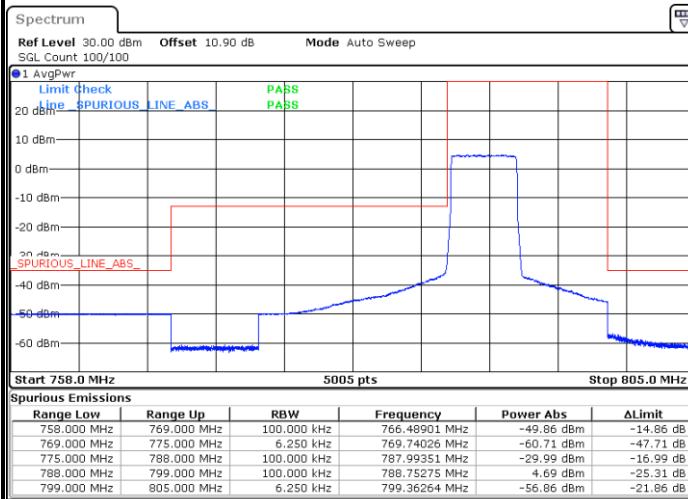
Lowest Band Edge / 1 RB



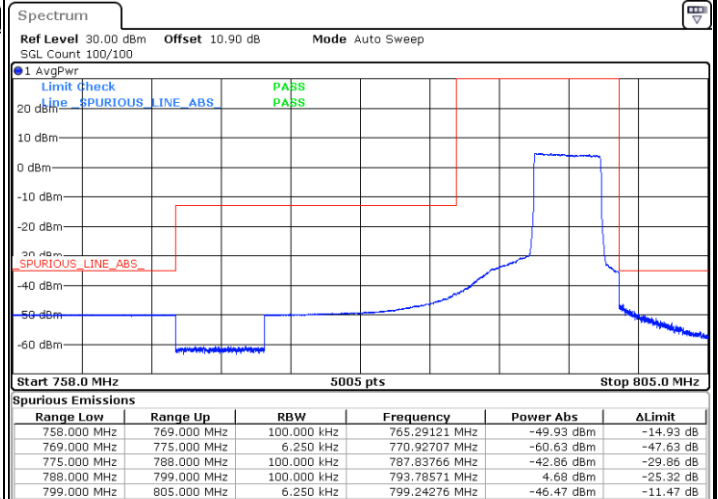
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



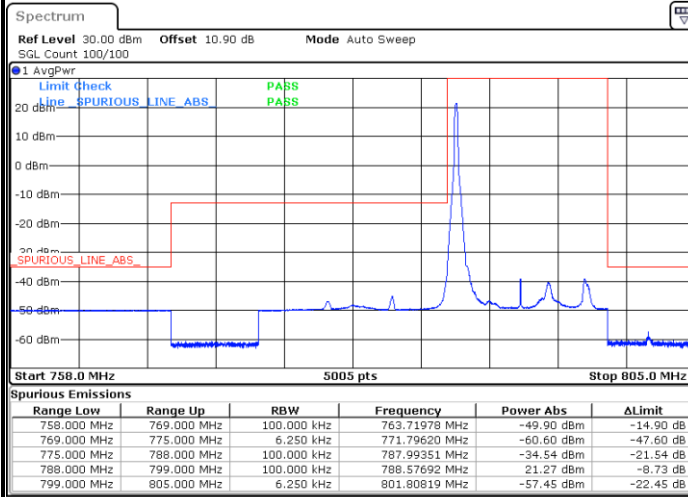
Highest Band Edge / Full RB



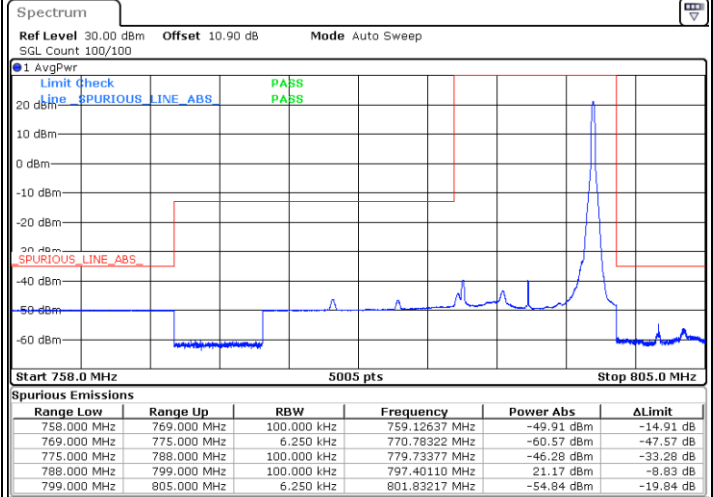


LTE Band 14 / 10MHz / QPSK

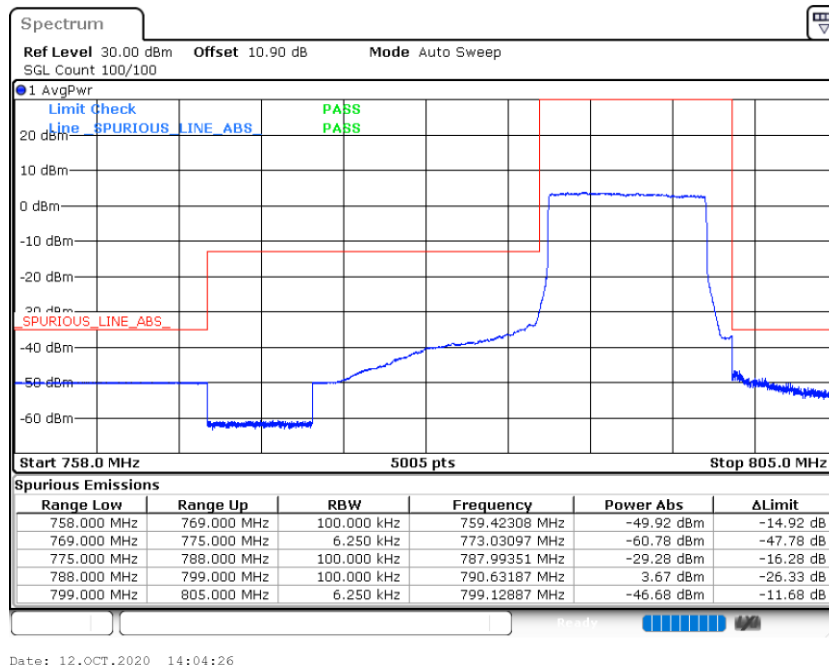
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



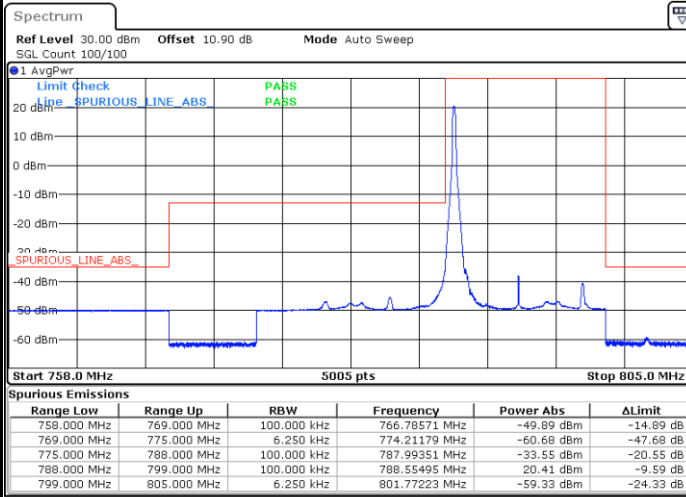
Band Edge / Full RB





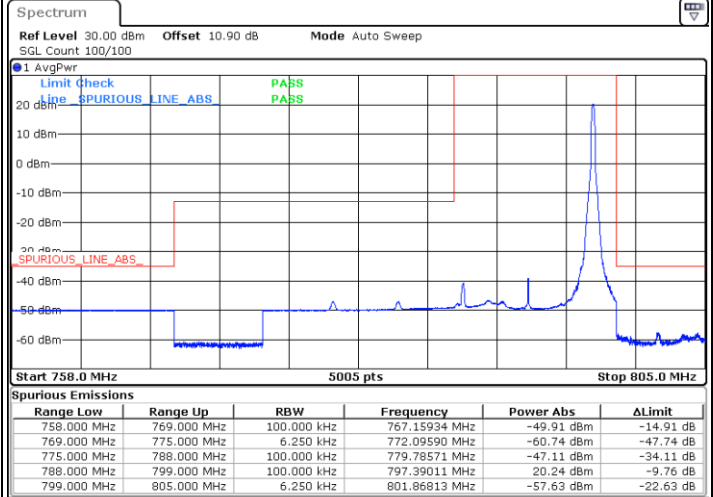
LTE Band 14 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



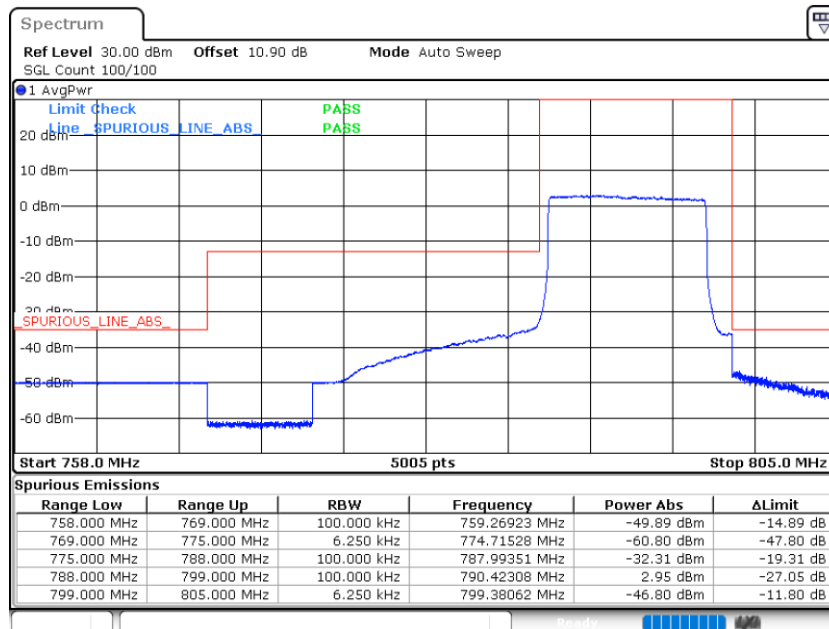
Date: 12.OCT.2020 14:07:45

Highest Band Edge / 1 RB



Date: 12.OCT.2020 14:12:43

Band Edge / Full RB

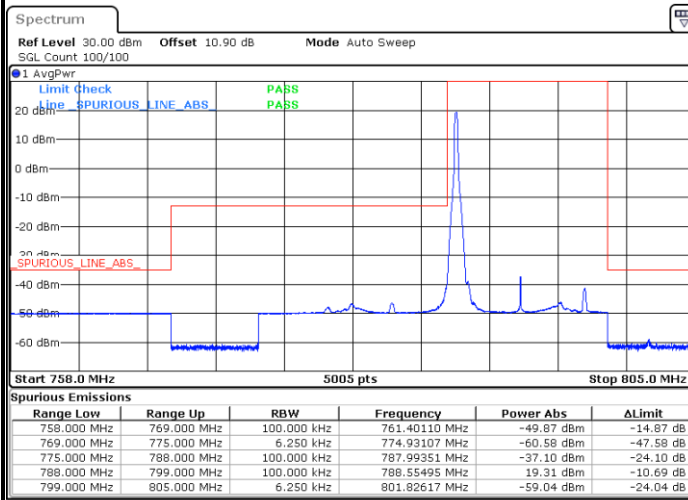


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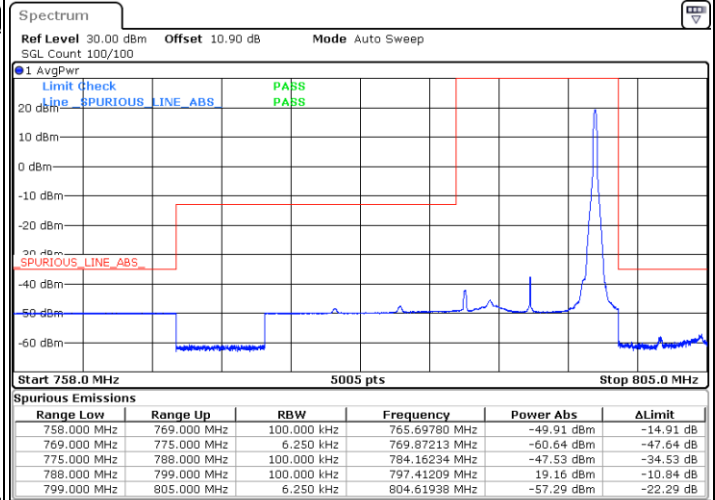


LTE Band 14 / 10MHz / 64QAM

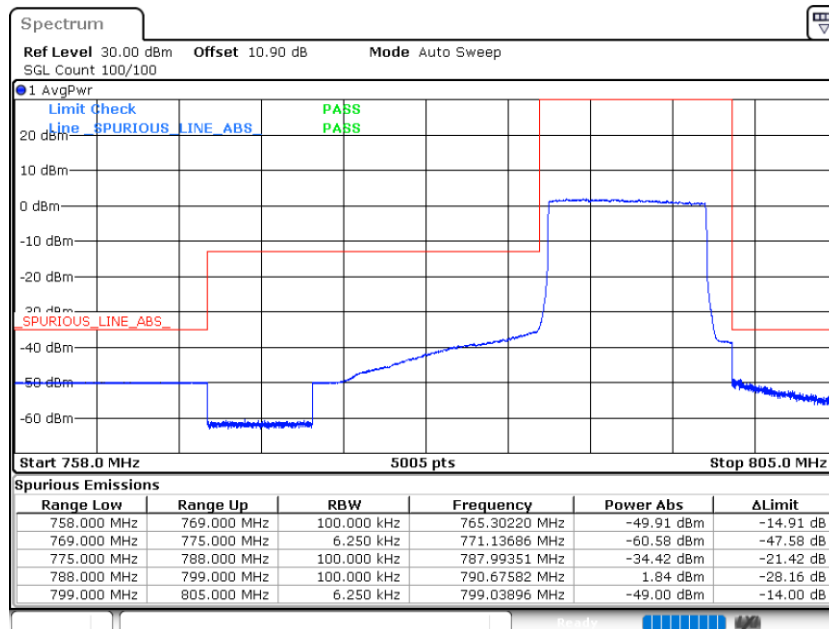
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Band Edge / Full RB

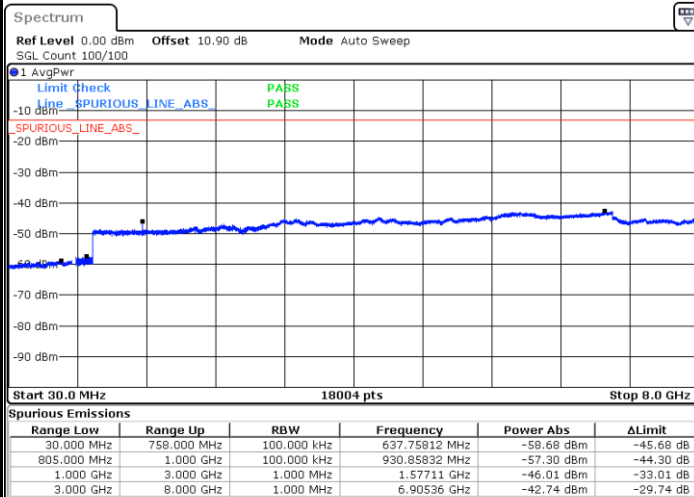




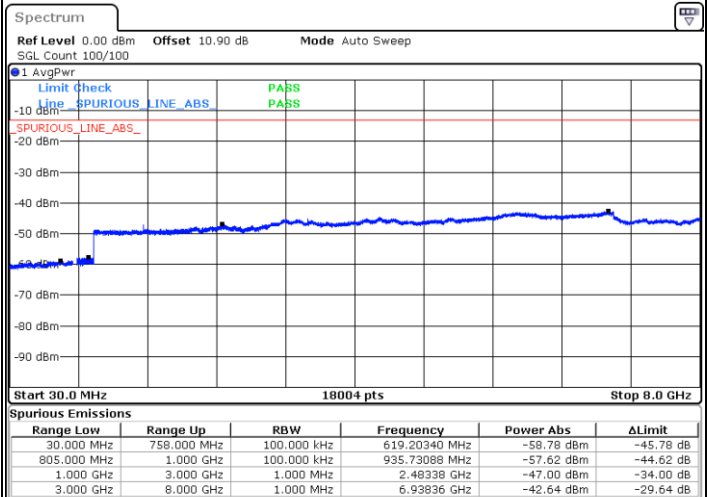
Conducted Spurious Emission

LTE Band 14 / 5MHz

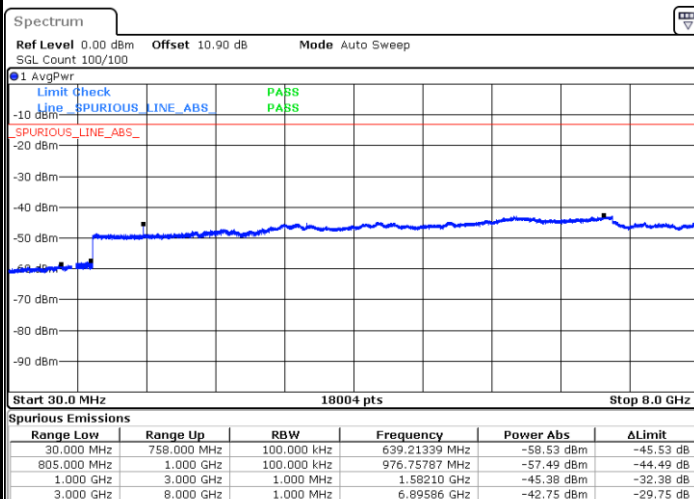
Lowest Channel / QPSK



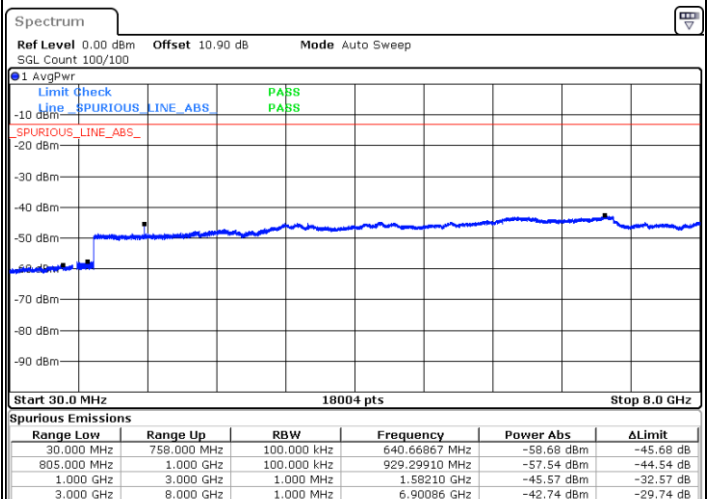
Lowest Channel / 16QAM



Middle Channel / QPSK



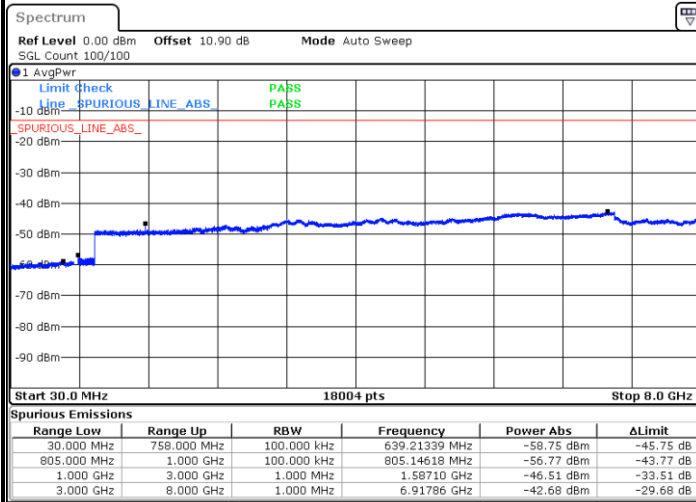
Middle Channel / 16QAM





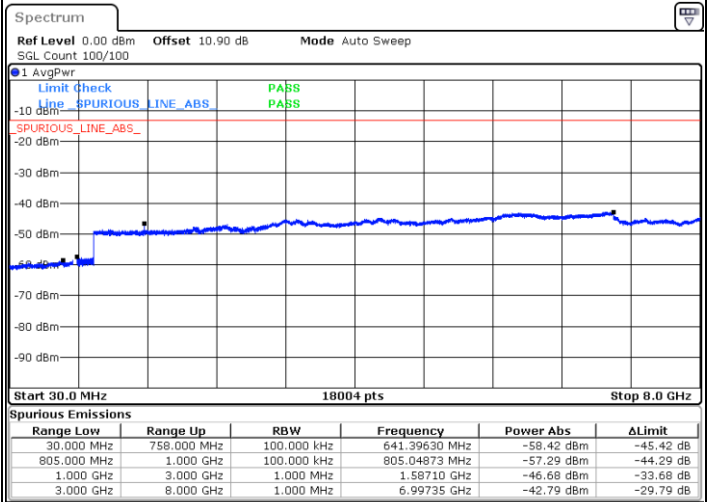
LTE Band 14 / 5MHz

Highest Channel / QPSK



Date: 12.OCT.2020 13:50:49

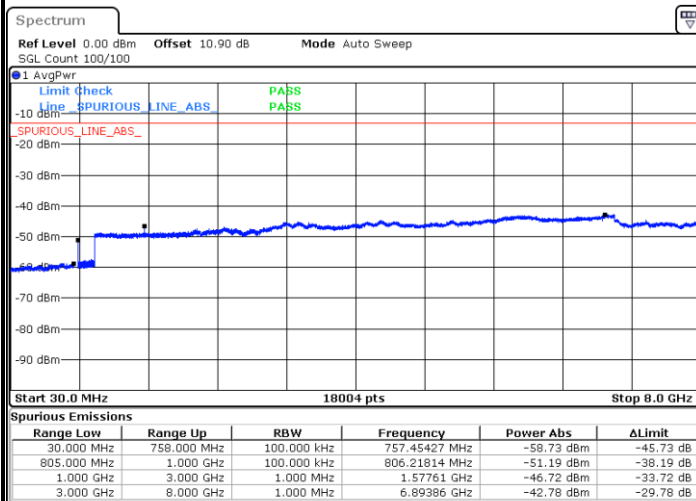
Highest Channel / 16QAM



Date: 12.OCT.2020 13:51:39

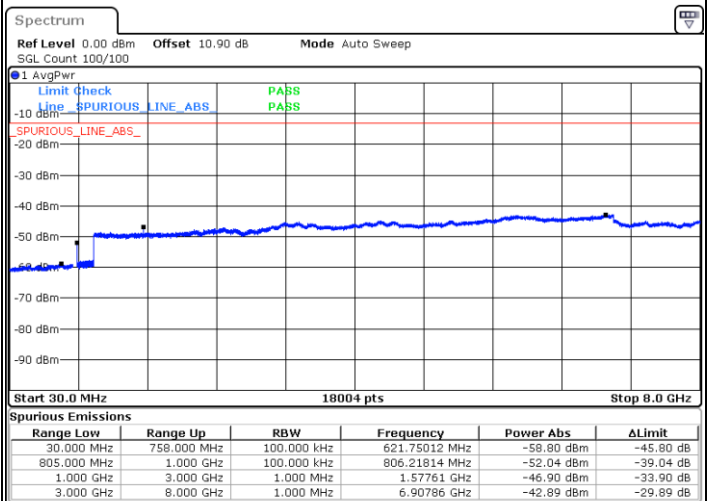
LTE Band 14 / 10MHz

Middle Channel / QPSK



Date: 12.OCT.2020 14:14:21

Middle Channel / 16QAM

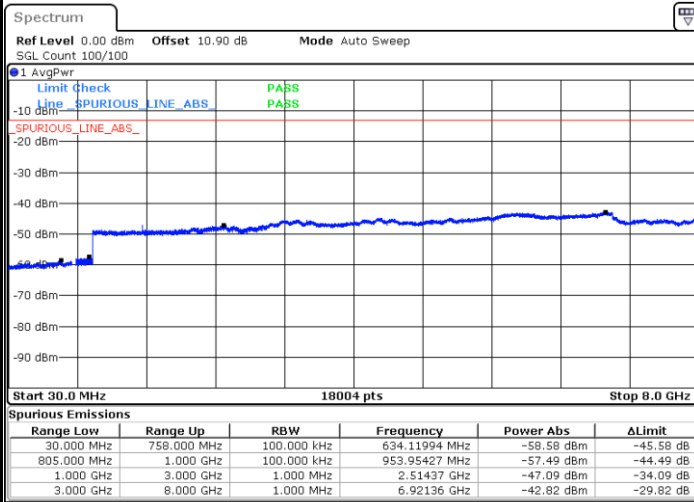


Date: 12.OCT.2020 14:13:32



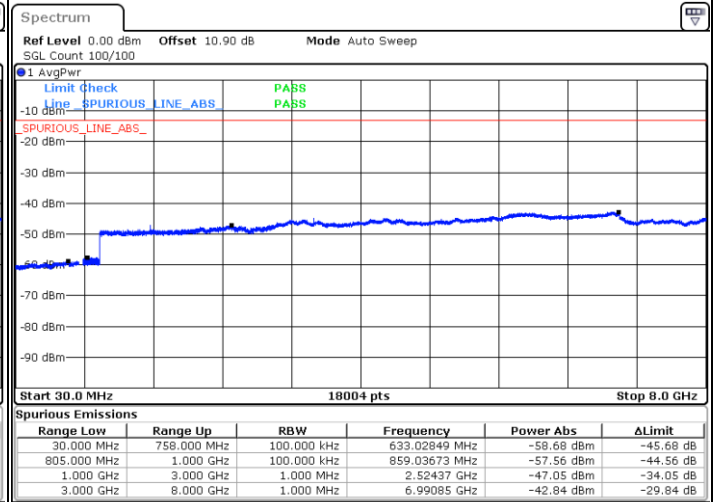
LTE Band 14 / 5MHz

Lowest Channel / 64QAM



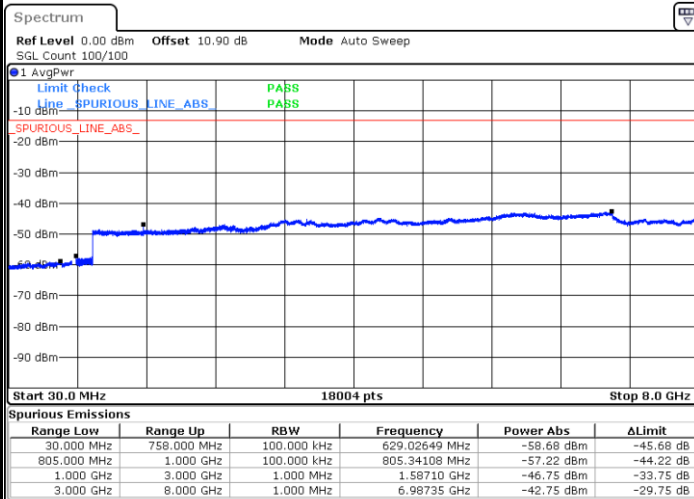
Date: 12.OCT.2020 13:56:13

Middle Channel / 64QAM



Date: 12.OCT.2020 13:57:03

Highest Channel / 64QAM

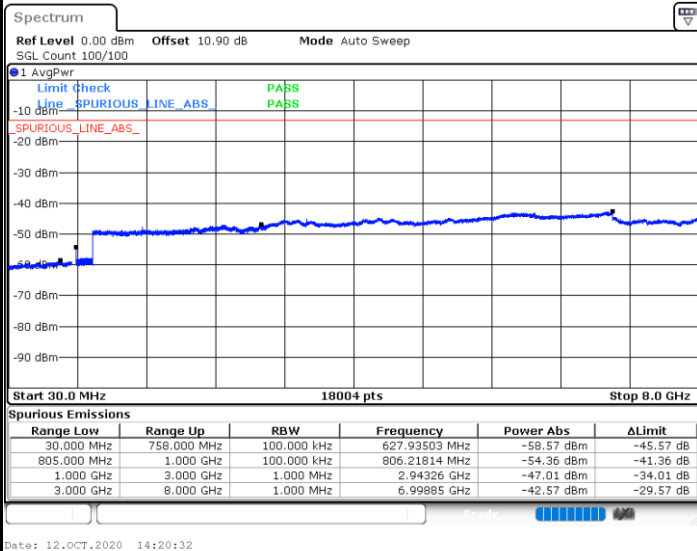


Date: 12.OCT.2020 14:01:59



LTE Band 14 / 10MHz

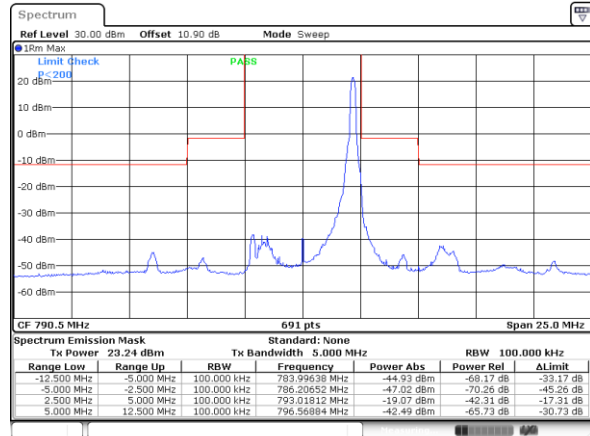
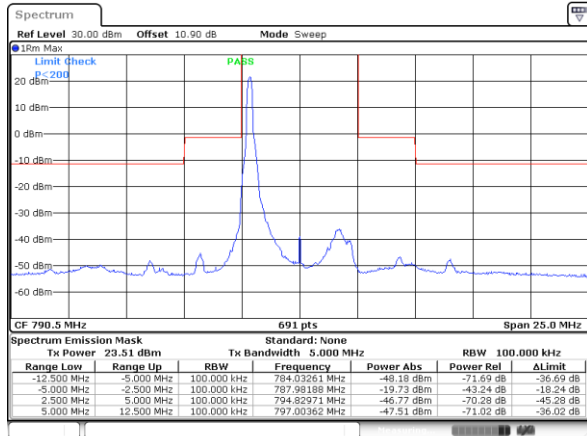
Middle Channel / 64QAM



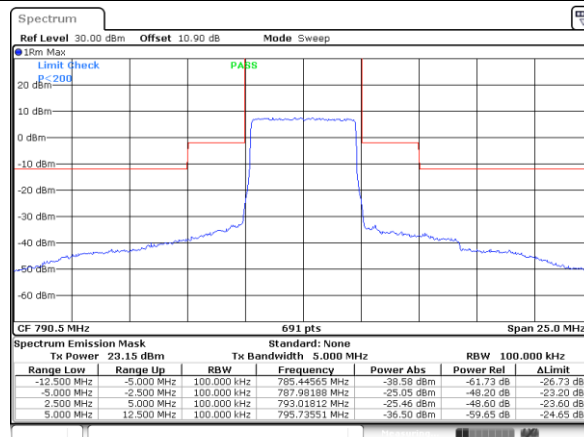
Mask

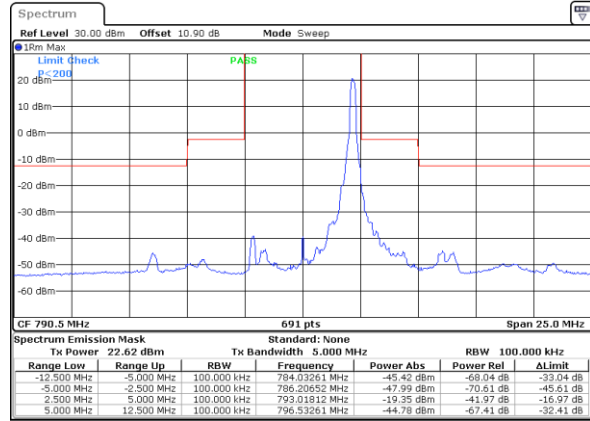
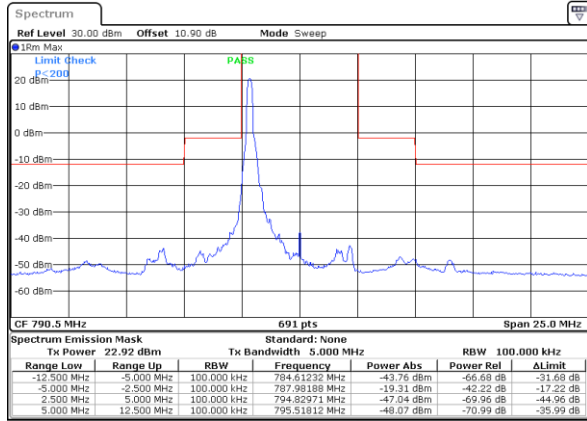
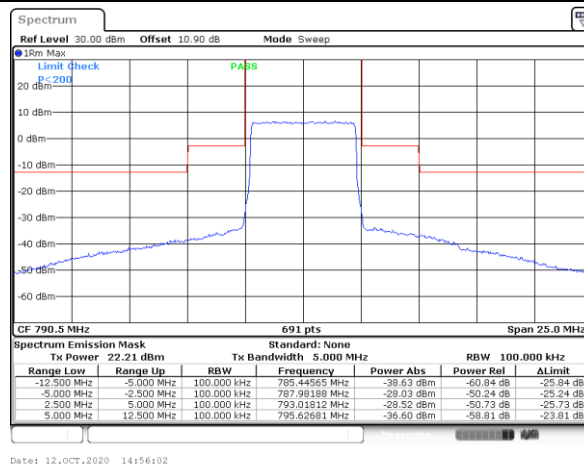
LTE Band 14 / 5MHz / QPSK

Lowest Channel / 1RB



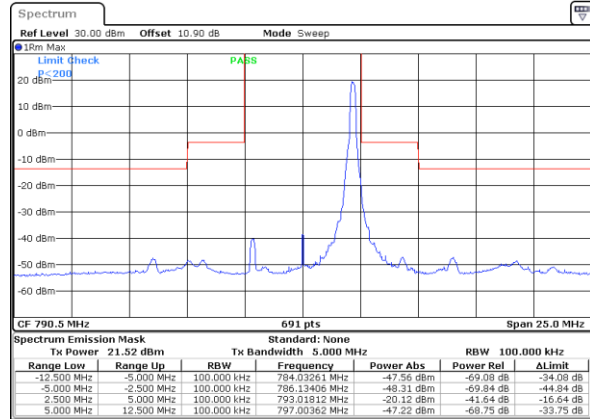
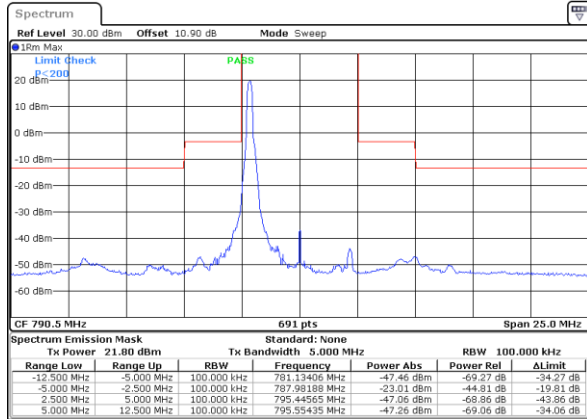
Lowest Channel / Full RB



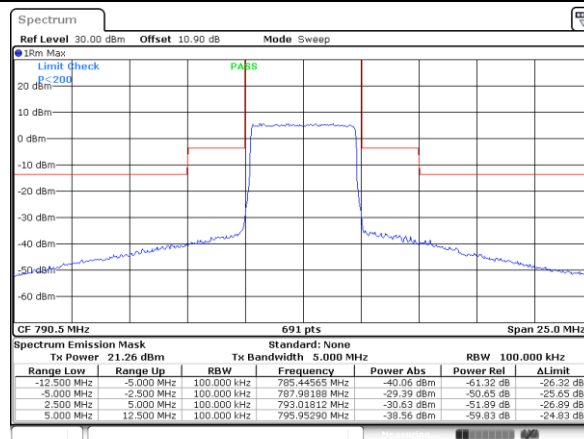
LTE Band 14 / 5MHz / 16QAM
Lowest Channel / 1RB

Lowest Channel / Full RB


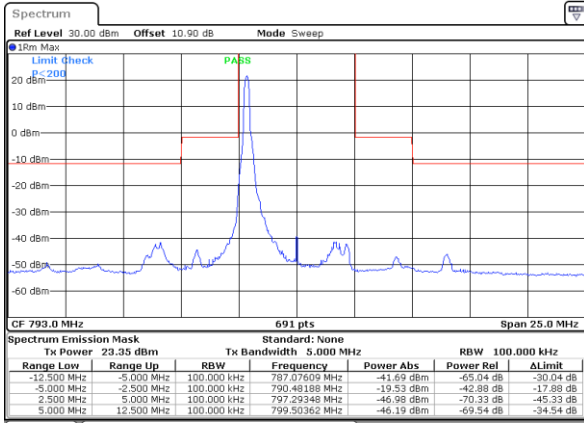
LTE Band 14 / 5MHz / 64QAM

Lowest Channel / 1RB

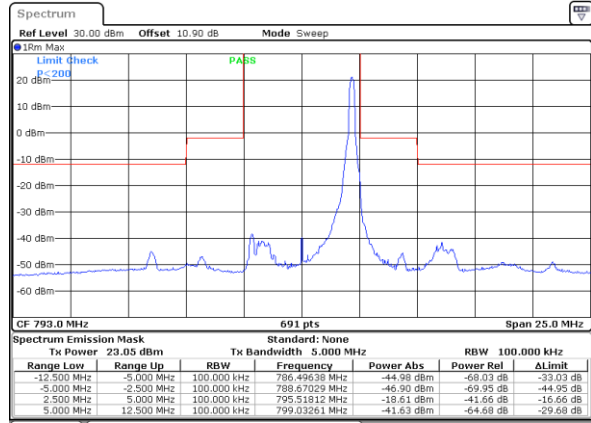


Lowest Channel / Full RB

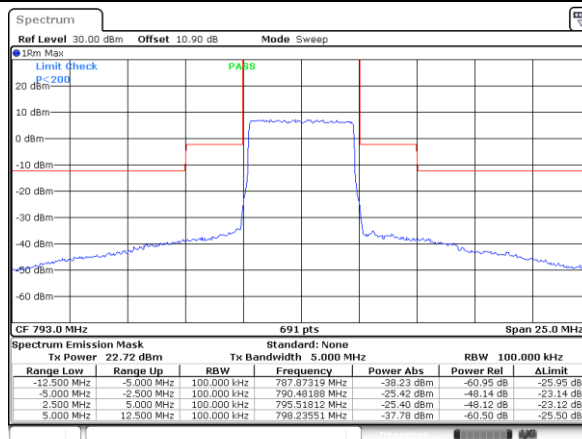


LTE Band 14 / 5MHz / QPSK
Middle Channel / 1RB


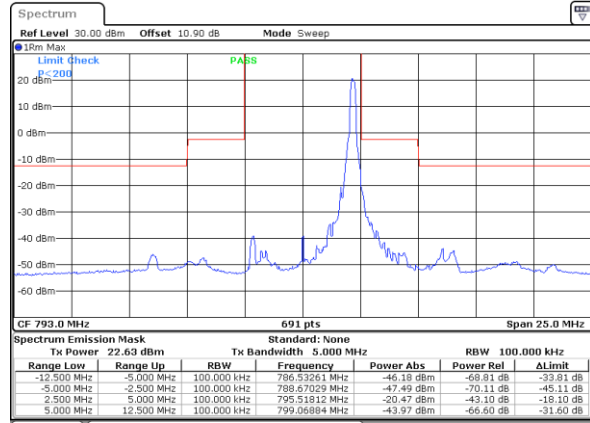
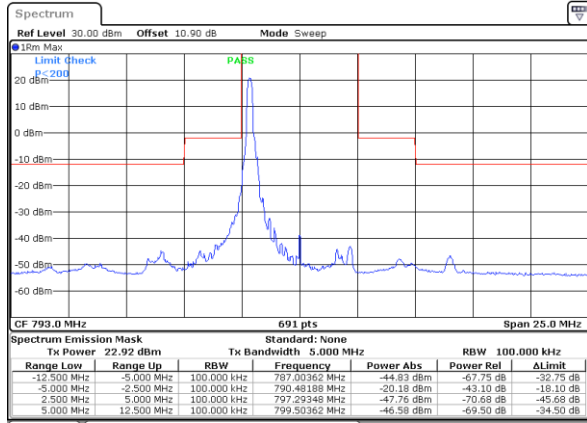
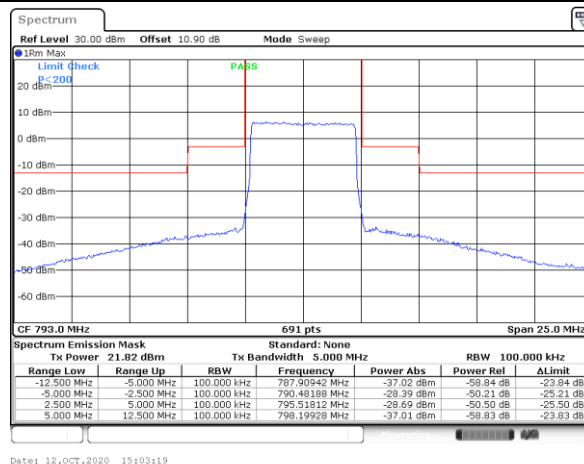
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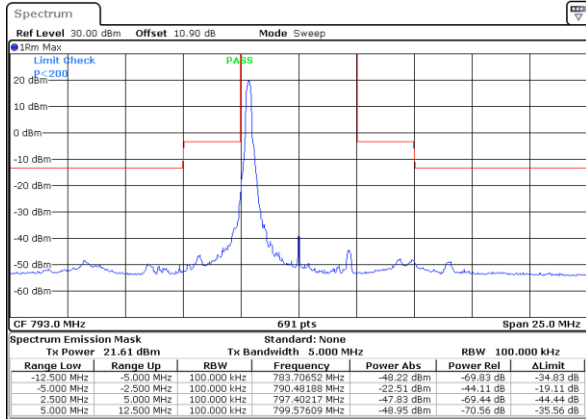


Date: 12.OCT.2020 15:00:55

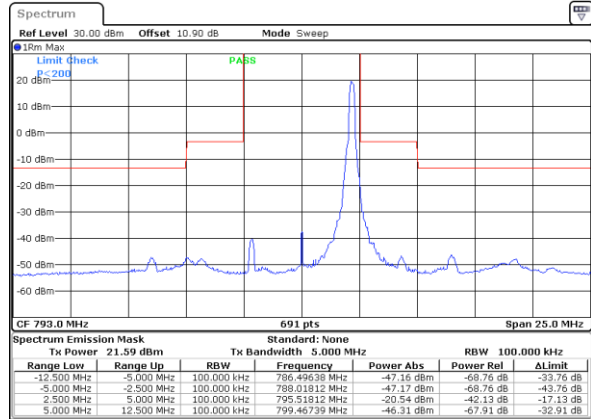
Middle Channel / Full RB


Date: 12.OCT.2020 15:03:48

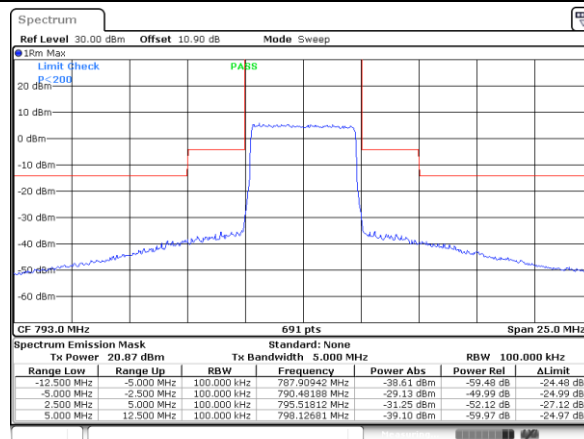
LTE Band 14 / 5MHz / 16QAM
Middle Channel / 1RB

Middle Channel / Full RB


LTE Band 14 / 5MHz / 64QAM
Middle Channel / 1RB


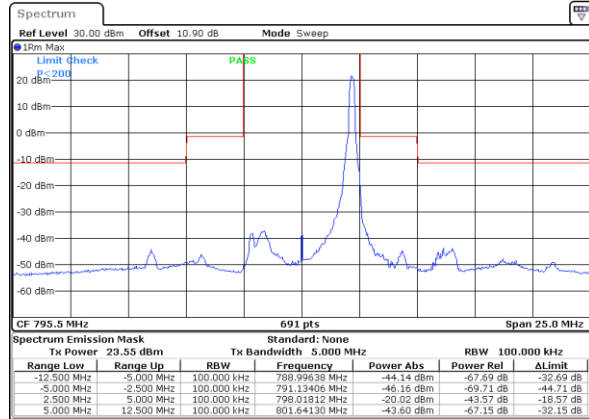
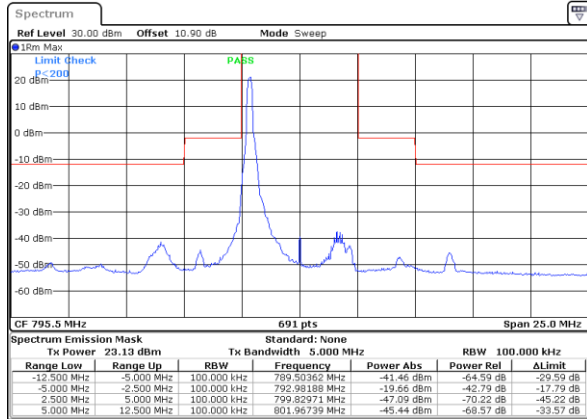
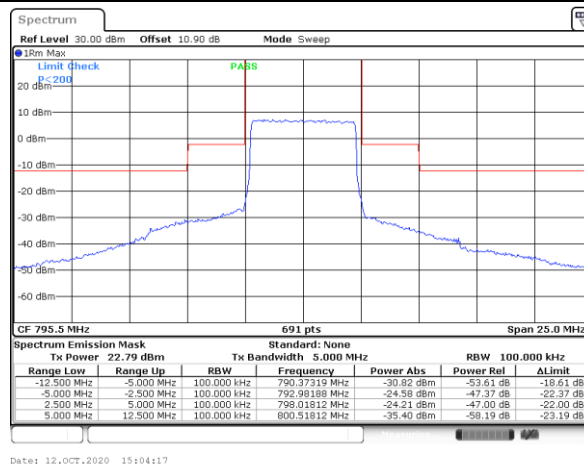
Date: 12.OCT.2020 15:02:21

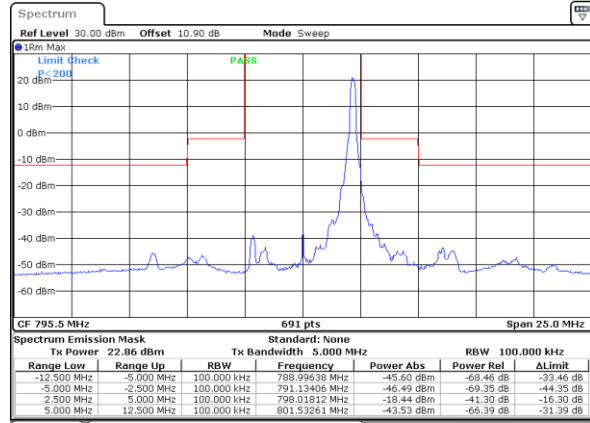
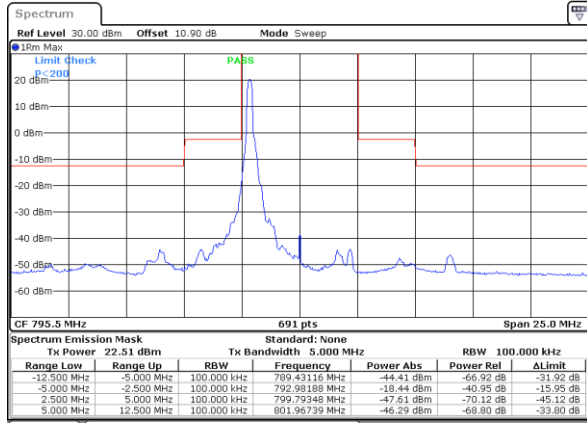
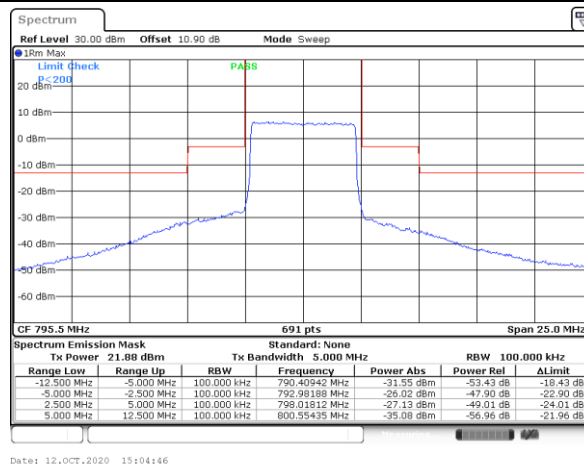


Date: 12.OCT.2020 14:59:57

Middle Channel / Full RB


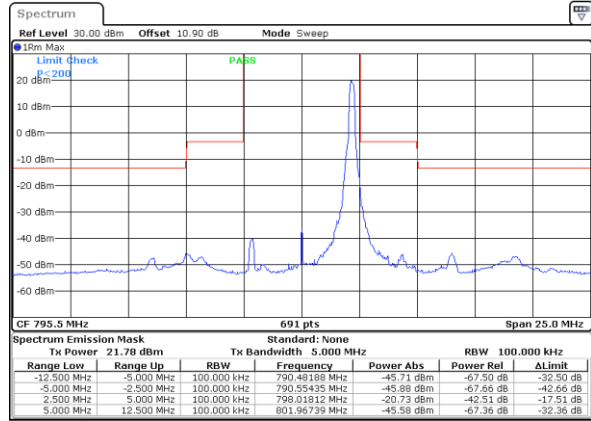
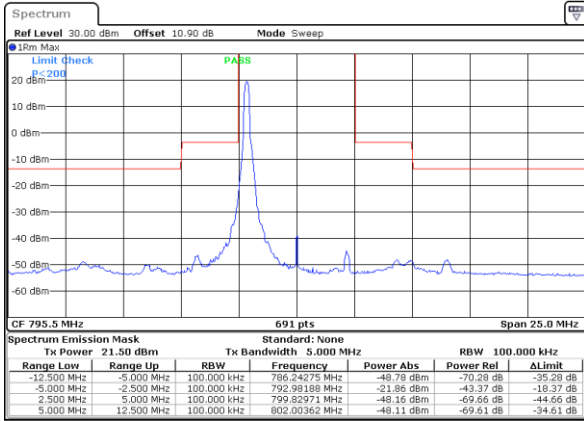
Date: 12.OCT.2020 15:02:50

LTE Band 14 / 5MHz / QPSK
Highest Channel / 1RB

Highest Channel / Full RB


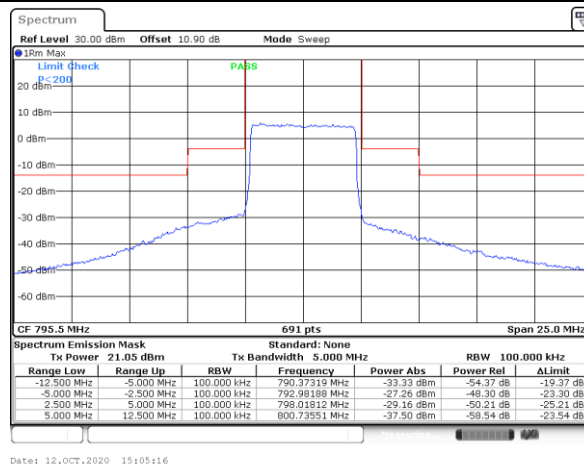
LTE Band 14 / 5MHz / 16QAM
Highest Channel / 1RB

Highest Channel / Full RB


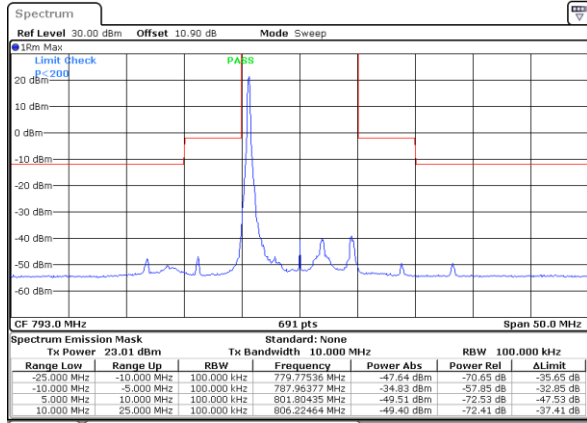
LTE Band 14 / 5MHz / 64QAM

Highest Channel / 1RB

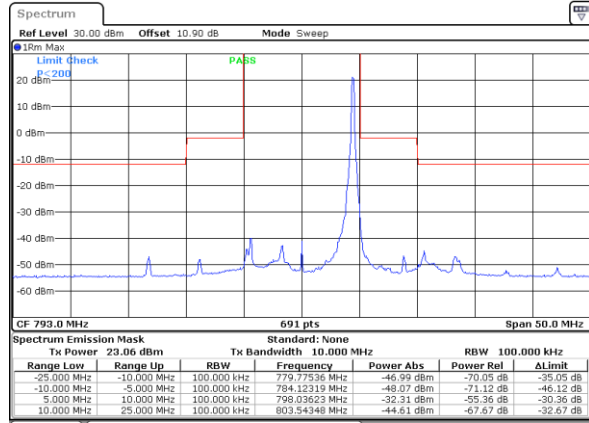


Highest Channel / Full RB

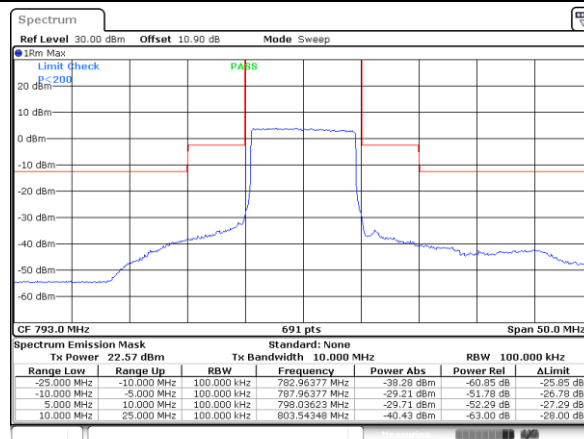


LTE Band 14 / 10MHz / QPSK
Middle Channel / 1RB


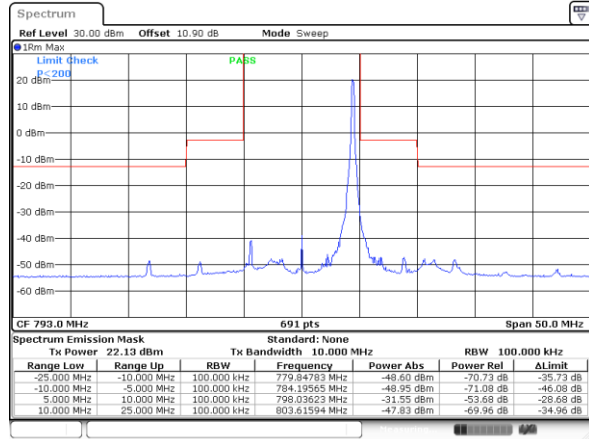
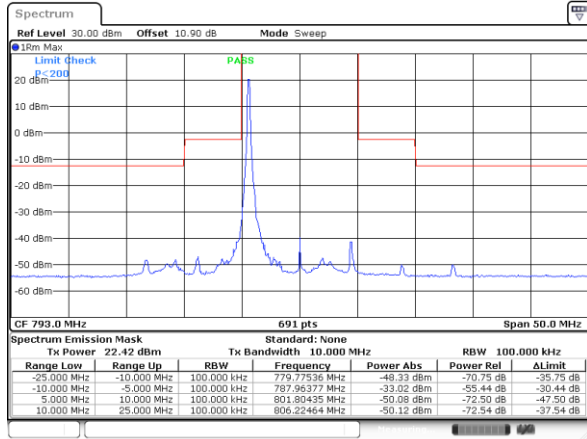
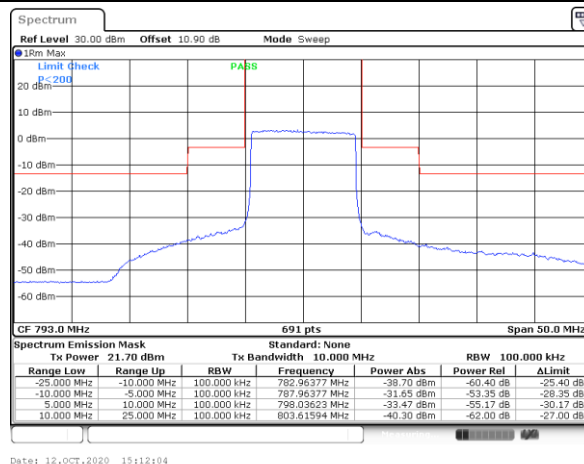
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Date: 12.OCT.2020 15:10:10

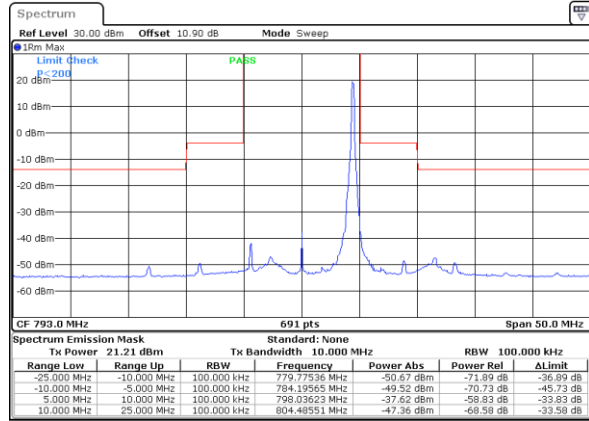
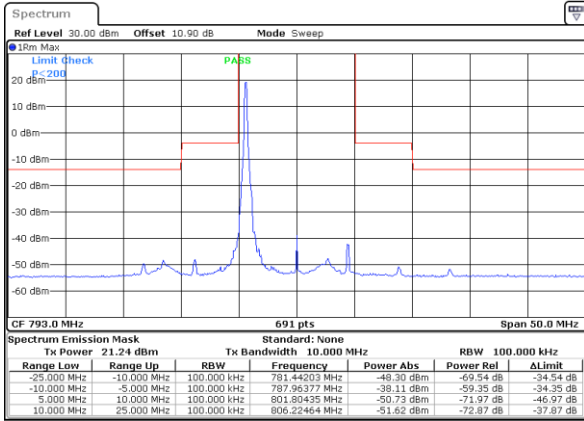
Middle Channel / Full RB


Date: 12.OCT.2020 15:12:33

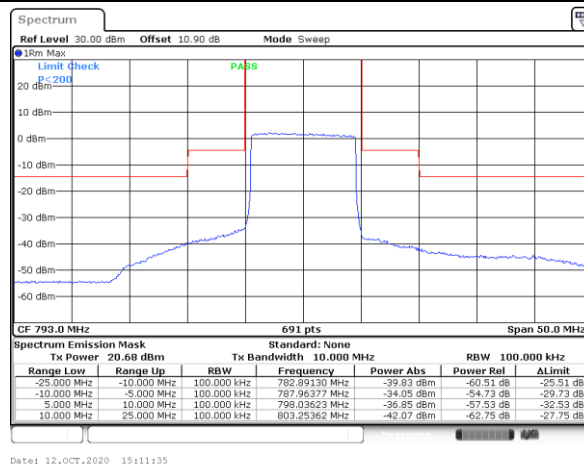
LTE Band 14 / 10MHz / 16QAM
Middle Channel / 1RB

Middle Channel / Full RB


LTE Band 14 / 10MHz / 64QAM

Middle Channel / 1RB



Middle Channel / Full RB



Frequency Stability

Test Conditions		LTE Band 14 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0129	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0101	
0	Normal Voltage	0.0029	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0101	
20	Maximum Voltage	0.0042	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0092	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.60 V. ; Maximum Voltage =4.39 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of ERP and Radiated Test

ERP

LTE Band 14 / 5MHz (Average) (GT - LC = 0.44 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	EIRP(dBm)	EIRP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	25.13	0.3258	23.42	0.2198
Middle		1	0	25.12	0.3251	23.41	0.2193
Highest		1	0	25.14	0.3266	23.43	0.2203
Lowest	16QAM	1	0	23.88	0.2443	22.17	0.1648
Middle		1	0	23.93	0.2472	22.22	0.1667
Highest		1	0	23.97	0.2495	22.26	0.1683
Lowest	64QAM	1	0	22.93	0.1963	21.22	0.1324
Middle		1	0	23.00	0.1995	21.29	0.1346
Highest		1	0	22.95	0.1972	21.24	0.1330
Limit	ERP < 3W			Result		PASS	

LTE Band 14 / 10MHz (Average) (GT - LC = 0.44 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	EIRP(dBm)	EIRP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	0	25.16	0.3281	23.45	0.2213
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	0	23.88	0.2443	22.17	0.1648
Highest		-	-	-	-	-	-
Lowest	64QAM	-	-	-	-	-	-
Middle		1	25	22.94	0.1968	21.23	0.1327
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	

**Radiated Spurious Emission**

<For SIM 1>

LTE Band 14

LTE Band 14 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1576	-54.13	-42.15	-11.98	-64.57	-60.93	0.52	9.47	H
	2368	-35.42	-13.00	-22.42	-49.76	-43.34	0.63	10.69	H
	3152	-57.27	-13.00	-44.27	-73.51	-65.93	0.74	11.56	H
	3944	-49.98	-13.00	-36.98	-67.50	-59.42	0.83	12.42	H
	4728	-51.05	-13.00	-38.05	-71.66	-60.81	0.29	12.20	H
									H
	1576	-58.66	-42.15	-16.51	-68.87	-65.46	0.52	9.47	V
	2368	-39.31	-13.00	-26.31	-54.26	-47.23	0.63	10.69	V
	3152	-55.39	-13.00	-42.39	-71.88	-64.05	0.74	11.56	V
	3944	-44.71	-13.00	-31.71	-63.34	-54.15	0.83	12.42	V
	4728	-46.43	-13.00	-33.43	-67.49	-56.19	0.29	12.20	V
									V
Middle	1584	-54.06	-42.15	-11.91	-64.47	-60.88	0.52	9.48	H
	2376	-33.34	-13.00	-20.34	-47.55	-41.26	0.63	10.70	H
	3160	-54.90	-13.00	-41.90	-71.14	-63.59	0.74	11.58	H
	3952	-48.87	-13.00	-35.87	-66.39	-58.30	0.84	12.42	H
	4744	-49.47	-13.00	-36.47	-70.35	-59.30	0.22	12.20	H
									H
	1584	-58.48	-42.15	-16.33	-68.60	-65.30	0.52	9.48	V
	2376	-38.80	-13.00	-25.80	-53.72	-46.72	0.63	10.70	V
	3160	-50.86	-13.00	-37.86	-67.41	-59.55	0.74	11.58	V
	3952	-42.56	-13.00	-29.56	-61.20	-51.99	0.84	12.42	V
	4744	-44.48	-13.00	-31.48	-65.68	-54.31	0.22	12.20	V
									V



Highest	1584	-54.42	-42.15	-12.27	-64.83	-61.24	0.52	9.48	H
	2384	-35.20	-13.00	-22.20	-49.40	-43.13	0.63	10.71	H
	3176	-54.00	-13.00	-41.00	-70.32	-62.74	0.74	11.63	H
	3968	-47.95	-13.00	-34.95	-65.53	-57.36	0.86	12.41	H
	4760	-49.14	-13.00	-36.14	-70.27	-59.04	0.15	12.20	H
									H
	1584	-57.78	-42.15	-15.63	-67.90	-64.60	0.52	9.48	V
	2384	-37.58	-13.00	-24.58	-52.45	-45.51	0.63	10.71	V
	3176	-50.16	-13.00	-37.16	-66.82	-58.90	0.74	11.63	V
	3968	-42.40	-13.00	-29.40	-61.08	-51.81	0.86	12.41	V
	4760	-45.18	-13.00	-32.18	-66.52	-55.08	0.15	12.20	V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 14 / 10MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1576	-53.55	-42.15	-11.40	-63.99	-60.35	0.52	9.47	H
	2368	-31.80	-13.00	-18.80	-46.14	-39.72	0.63	10.69	H
	3152	-53.59	-13.00	-40.59	-69.83	-62.25	0.74	11.56	H
	3944	-45.66	-13.00	-32.66	-63.18	-55.10	0.83	12.42	H
	4728	-46.60	-13.00	-33.60	-67.21	-56.36	0.29	12.20	H
	5520	-53.86	-13.00	-40.86	-76.16	-63.88	1.02	13.19	H
									H
	1576	-59.01	-42.15	-16.86	-69.22	-65.81	0.52	9.47	V
	2368	-37.14	-13.00	-24.14	-52.09	-45.06	0.63	10.69	V
	3152	-50.51	-13.00	-37.51	-67.00	-59.17	0.74	11.56	V
	3944	-40.22	-13.00	-27.22	-58.85	-49.66	0.83	12.42	V
	4728	-41.93	-13.00	-28.93	-62.99	-51.69	0.29	12.20	V
	5520	-50.82	-13.00	-37.82	-73.19	-60.84	1.02	13.19	V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.