



FCC RADIO TEST REPORT

FCC ID : PKRISGM1000
Equipment : M1000
Brand Name : inseego
Model Name : M1000
Marketing Name : 5G MiFi M1000
Applicant : Inseego Corp.
6950 Scranton Road, Suite 300, San Diego, CA 92121
Manufacturer : Inseego Corp.
6950 Scranton Road, Suite 300, San Diego, CA 92121
Standard : 47 CFR Part 2, 96

The product was received on Sep. 24, 2019 and testing was started from Sep. 25, 2019 and completed on Nov. 12, 2019. 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



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History of this test report

Report No.	Version	Description	Issued Date
FG950301-02	01	Initial issue of report	Nov. 13, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
3.3	§96.41	Peak-to-Average Ratio	Pass	-
3.4	§96.41	Effective Isotropic Radiated Power	Pass	-
3.5	§2.1049 §96.41	Occupied Bandwidth	Reporting only	-
3.6	§2.1051 §96.41	Conducted Band Edge Measurement	Pass	-
3.7	§2.1051 §96.41	Conducted Spurious Emission	Pass	-
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	Under limit 6.56 dB at 25747.000 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: Yimin Ho



1 General Description

1.1 Product Feature of Equipment Under Test

The EUT supports UMTS/LTE/NR/WiFi. The details please find the Operating Description.

1.2 Modification of EUT

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

1.3 Testing Location

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	Aking Chang
Temperature	23~25°C
Relative Humidity	54~57%

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

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. 03CH12-HY
Test Engineer	Jack Cheng, Lance Chiang and CR Liao
Temperature	22~26°C
Relative Humidity	54~60%

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

FCC Designation No.: TW1190 and TW0007



1.4 Applied Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ 47 CFR Part 2, 96
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 940660 D01 Part 96 CBRS Eqpt v02
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.



2 Test Configuration of Equipment Under Test

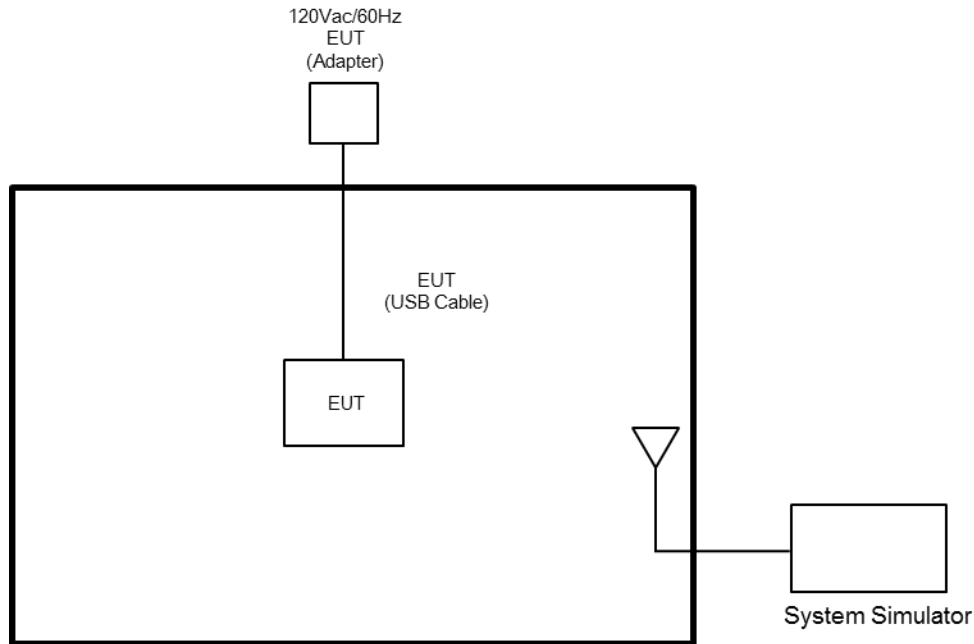
2.1 Test Mode

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. The worst cases (Y plane) were recorded in this report.

Test Items	Band	Bandwidth (MHz)							Modulation			RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	48_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	48_CA	v							v	v	v			v	v	v	v
Conducted Band Edge	48_CA	v							v	v	v	v		v	v	v	v
Conducted Spurious Emission	48_CA	v							v	v	v	v		v	v	v	v
E.I.R.P.	48_CA	v	v	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	48_CA	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.																

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	LTE 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 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 4.2 dB and 10dB attenuator.

Example :

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

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

2.5 Frequency List of Low/Middle/High Channels

LTE Band 48C Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
5M + 20M	PCC	Channel	55273	55898	56523
		Frequency	3553.3	3615.8	3678.3
	SCC	Channel	55390	56015	56640
		Frequency	3565	3627.5	3690
20M + 5M	PCC	Channel	55340	55965	56590
		Frequency	3560	3622.5	3685
	SCC	Channel	55457	56082	56707
		Frequency	3571.7	3634.2	3696.7
10M + 20M	PCC	Channel	55295	55896	56496
		Frequency	3555.5	3615.6	3675.6
	SCC	Channel	55439	56040	56640
		Frequency	3569.9	3630	3690
20M + 10M	PCC	Channel	55340	55941	56541
		Frequency	3560	3620.1	3680.1
	SCC	Channel	55484	56085	56685
		Frequency	3574.4	3634.5	3694.5
15M + 20M	PCC	Channel	55318	55893	56469
		Frequency	3557.8	3615.3	3672.9
	SCC	Channel	55489	56064	56640
		Frequency	3574.9	3632.4	3690
20M + 15M	PCC	Channel	55340	55916	56491
		Frequency	3560	3617.6	3675.1
	SCC	Channel	55511	56087	56662
		Frequency	3577.1	3634.7	3692.2
20M + 20M	PCC	Channel	55340	55891	56442
		Frequency	3560	3615.1	3670.2
	SCC	Channel	55538	56089	56640
		Frequency	3579.8	3634.9	3690

3 Conducted Test Items

3.1 Measuring Instruments

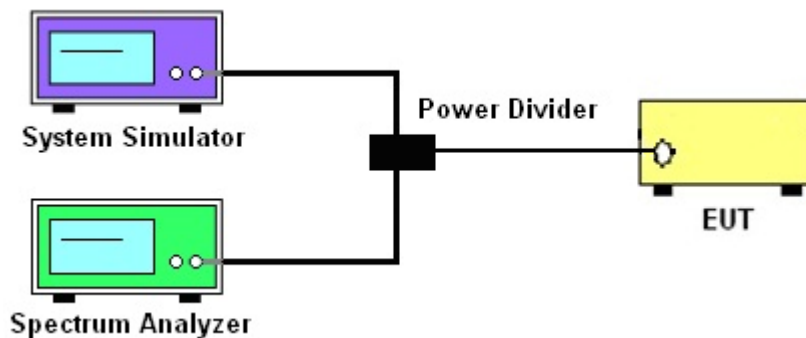
See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



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



3.1.4 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power

3.2.1 Description of the Conducted Output Power Measurement

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

3.2.2 Test Procedures

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



3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

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

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

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



3.4 EIRP Power

3.4.1 Description of the EIRP Power

The EIRP of mobile transmitters must not exceed 23 dBm /10 megahertz for Band 48.

The testing follows ANSI C63.26-2015 Section 5.2.5.5

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, 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

EIRP for CBRS equipment as below tabel:

Device	Maximum EIRP (dBm/10 MHz)
End User Device	23
Category A CBSD	30
Category B CBSD	47

3.4.1 Test Procedures

The testing follows procedure in Section 5.2 of ANSI C63.26-2015 and KDB 940660 D01 Part 96 Eqpt v02 Section 3.2(b)(2)

Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.

3.5 Occupied Bandwidth

3.5.1 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.

3.5.2 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.

3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The 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.

For Adjacent Channel Leakage Ratio (ACLR) measurement,

1. The Adjacent Channel Leakage Ratio (ACLR) is the ratio of the average power in the assigned aggregated channel bandwidth to the average power over the equivalent adjacent channel bandwidth.
2. The option ACLR of spectrum analyzer is used and measures the ACLR ratio by setting equivalent channel bandwidth.
3. The measured ACLR ratio shall be at least 30 dB.



3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

Emission and interference limits: the device satisfies the emission limits specified in Section FCC Part 96.41 e) 1) ii) & e) 2) at the lowest and highest edges of the band, and in the middle of the band.

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 system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
3. The 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 -40dBm/MHz.

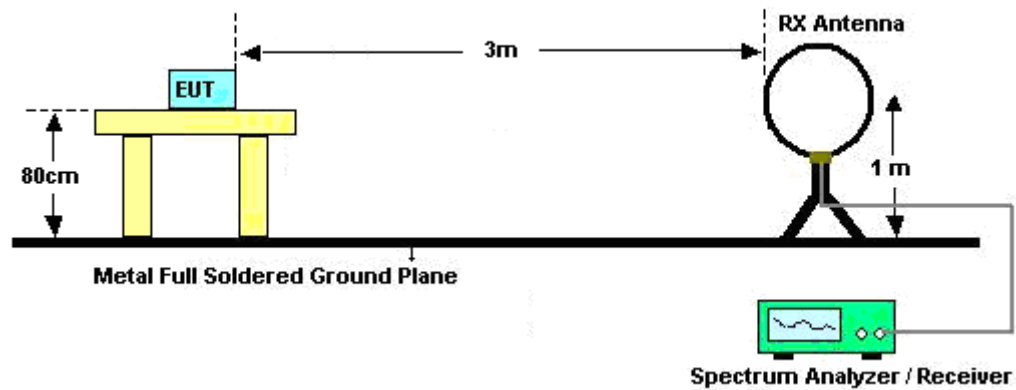
4 Radiated Test Items

4.1 Measuring Instruments

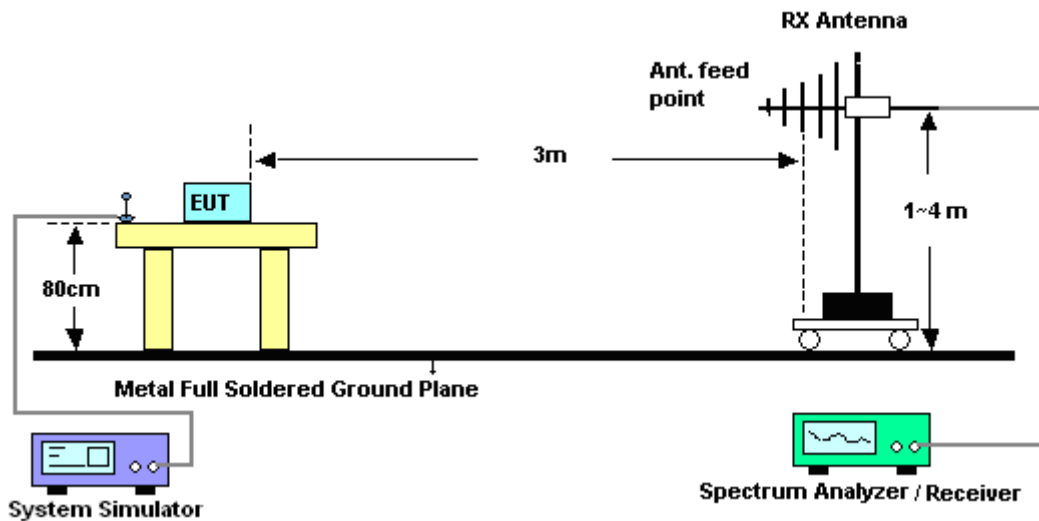
See list of measuring instruments of this test report.

4.2 Test Setup

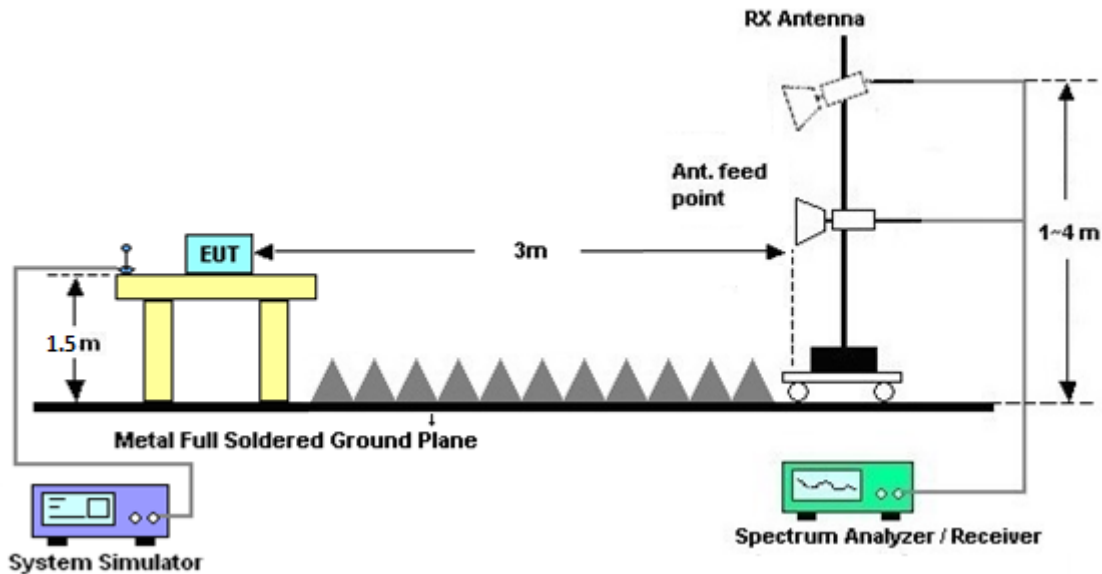
For radiated emissions below 30MHz



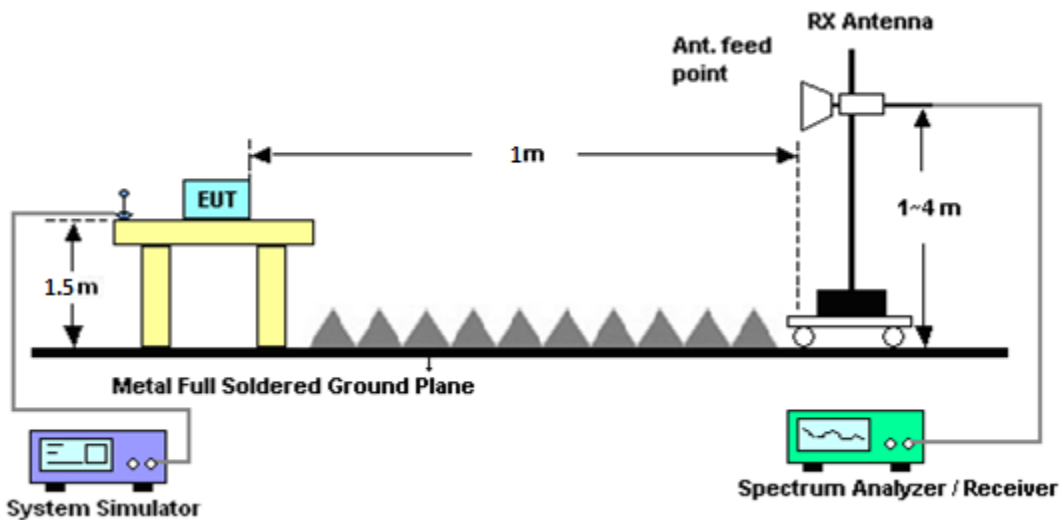
For radiated emissions from 30MHz to 1GHz



For radiated emissions from 1GHz to 18GHz



For radiated emissions above 18GHz



4.3 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.



4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission Measurement

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 -40dBm / MHz. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 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 height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna 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 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$
$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
The limit line is -40dBm/MHz

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 07, 2019	Sep. 25, 2019~ Sep. 26, 2019	Jan. 06, 2020	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802 N1D01N-06	47020&06	30MHz to 1GHz	Oct. 13, 2018	Sep. 25, 2019~ Sep. 26, 2019	Oct. 12, 2019	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-121 2	1GHz ~ 18GHz	Oct. 19, 2018	Sep. 25, 2019~ Sep. 26, 2019	Oct. 18, 2019	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-132 6	1GHz ~ 18GHz	Oct. 30, 2018	Sep. 25, 2019~ Sep. 26, 2019	Oct. 29, 2019	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz ~ 40GHz	Dec. 05, 2018	Sep. 25, 2019~ Sep. 26, 2019	Dec. 04, 2019	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 25, 2019	Sep. 25, 2019~ Sep. 26, 2019	Mar. 24, 2020	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A023 75	1GHz~26.5GHz	May 28, 2018	Sep. 25, 2019~ Sep. 26, 2019	May 26, 2020	Radiation (03CH12-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	171000180 0055007	1GHz~18GHz	Apr. 01, 2019	Sep. 25, 2019~ Sep. 26, 2019	Mar. 31, 2020	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 06, 2018	Sep. 25, 2019~ Sep. 26, 2019	Dec. 05, 2019	Radiation (03CH12-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	Dec. 26, 2018	Sep. 25, 2019~ Sep. 26, 2019	Dec. 25, 2019	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 86	10Hz~44GHz	Dec. 19, 2018	Sep. 25, 2019~ Sep. 26, 2019	Dec. 18, 2019	Radiation (03CH12-HY)
Signal Generator	Rohde & Schwarz	SMB100A	175727	100kHz~40GHz	Dec. 23, 2018	Sep. 25, 2019~ Sep. 26, 2019	Dec. 23, 2019	Radiation (03CH12-HY)
Base Station	Anritsu	MT8821C	620143281 6	GSM / GPRS /WCDMA / LTE FDD/TDD with 44) /LTE-3CC DLCA,2CC ULCA	May 05, 2019	Sep. 25, 2019~ Sep. 26, 2019	May 04, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30M-18G	Mar. 13, 2019	Sep. 25, 2019~ Sep. 26, 2019	Mar. 12, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 16, 2018	Sep. 25, 2019~ Sep. 26, 2019	Oct. 15, 2019	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Oct. 16, 2018	Sep. 25, 2019~ Sep. 26, 2019	Oct. 15, 2019	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1m~4m	N/A	Sep. 25, 2019~ Sep. 26, 2019	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Sep. 25, 2019~ Sep. 26, 2019	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-00098 9	N/A	N/A	Sep. 25, 2019~ Sep. 26, 2019	N/A	Radiation (03CH12-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Base Station(Measure)	Anritsu	MT8821C	620166475 5	GSM / GPRS /WCDMA / LTE FDD/TDD with 44) /LTE-3CC DLCA,2CC ULCA	Mar. 03, 2019	Nov. 07, 2019~ Nov. 12, 2019	Mar. 02, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101408	10Hz~40GHz	Aug. 13, 2019	Nov. 07, 2019~ Nov. 12, 2019	Aug. 12, 2020	Conducted (TH05-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#A	1-18GHz	Jan. 14, 2019	Nov. 07, 2019~ Nov. 12, 2019	Jan. 13, 2020	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% ($U = 2U_c(y)$)	3.36
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.70
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.98
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 48C_CA Maximum Average Power [dBm]								
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest
	RB Size	RB Offset	RB Size	RB Offset				
20+20	1	0	1	0	QPSK	11.87	11.37	12.01
20+20	1	99	1	0		-2.26	-2.68	-1.91
20+20	0	0	1	99		11.72	11.16	12.33
20+20	1	0	1	0	16-QAM	11.92	11.43	12.11
20+20	1	99	1	0		-1.67	-2.20	-1.87
20+20	0	0	1	99		12.43	11.76	12.62
20+20	1	0	1	0	64-QAM	11.98	11.48	12.15
20+20	1	99	1	0		-2.00	-2.44	-1.91
20+20	0	0	1	99		12.08	11.51	12.35
20+15	100	0	75	0	QPSK	11.66	11.23	12.05
20+15	1	0	1	74		-2.62	-2.84	-2.14
20+15	1	74	1	0		11.60	11.09	12.01
20+15	100	0	75	0	16-QAM	11.73	11.29	12.10
20+15	1	0	1	74		-2.07	-2.35	-1.60
20+15	1	74	1	0		12.21	11.66	12.65
20+15	100	0	75	0	64-QAM	11.76	11.27	12.12
20+15	1	0	1	74		-2.40	-2.57	-1.82
20+15	1	74	1	0		12.02	11.42	12.40
15+20	75	0	100	0	QPSK	11.75	11.28	12.03
15+20	1	0	1	99		-2.38	-2.77	-2.12
15+20	1	74	1	0		11.61	11.15	11.98
15+20	75	0	100	0	16-QAM	11.79	11.34	12.08
15+20	1	0	1	99		-1.85	-2.26	-1.56
15+20	1	74	1	0		12.25	11.75	12.57
15+20	75	0	100	0	64-QAM	11.81	11.37	12.12
15+20	1	0	1	99		-2.10	-2.78	-1.81
15+20	1	74	1	0		11.88	11.50	12.35



LTE Band 48C_CA Maximum Average Power [dBm]								
BW [MHz]	PCC		SCC		Mod	Lowest	Middle	Highest
	RB Size	RB Offset	RB Size	RB Offset				
20+10	100	0	50	0	QPSK	11.83	11.19	12.19
20+10	1	0	1	49		-2.33	-3.16	-2.01
20+10	1	99	1	0		11.64	11.19	12.02
20+10	100	0	50	0	16-QAM	11.80	11.22	12.23
20+10	1	0	1	49		-1.80	-2.68	-1.47
20+10	1	99	1	0		12.29	11.71	12.80
20+10	100	0	50	0	64-QAM	11.86	11.23	12.28
20+10	1	0	1	49		-2.05	-3.15	-1.69
20+10	1	99	1	0		11.98	11.56	12.45
10+20	50	0	100	0	QPSK	11.73	11.14	12.05
10+20	1	0	1	99		-2.36	-2.82	-2.01
10+20	1	49	1	0		11.65	11.17	12.06
10+20	50	0	100	0	16-QAM	11.84	11.74	12.17
10+20	1	0	1	99		-1.81	-2.28	-1.46
10+20	1	49	1	0		12.20	11.77	12.59
10+20	50	0	100	0	64-QAM	11.83	11.52	12.15
10+20	1	0	1	99		-2.11	-2.53	-1.72
10+20	1	49	1	0		12.07	11.54	12.41
20+5	100	0	25	0	QPSK	11.93	11.46	12.28
20+5	1	0	1	24		-2.15	-2.59	-1.86
20+5	1	99	1	0		11.62	11.20	12.07
20+5	100	0	25	0	16-QAM	11.93	11.48	12.37
20+5	1	0	1	24		-1.60	-2.10	-1.30
20+5	1	99	1	0		12.31	11.85	12.75
20+5	100	0	25	0	64-QAM	12.02	11.50	12.35
20+5	1	0	1	24		-1.92	-2.37	-1.58
20+5	1	99	1	0		11.96	11.58	12.51
5+20	25	0	100	0	QPSK	11.85	11.05	12.07
5+20	1	0	1	99		-2.32	-3.09	-2.05
5+20	1	24	1	0		11.72	10.99	11.97
5+20	25	0	100	0	16-QAM	11.98	11.15	12.18
5+20	1	0	1	99		-1.75	-2.57	-1.50
5+20	1	24	1	0		12.40	11.63	12.66
5+20	25	0	100	0	64-QAM	11.96	11.19	12.24
5+20	1	0	1	99		-2.06	-2.82	-1.78
5+20	1	24	1	0		12.03	11.31	12.39



LTE Band 48C

Conducted Power and EIRP

LTE Band 48C_CA / 20 + 20 MHz (GT - LC = 3.6 dB)										
Channel	Mode	PCC		SCC		Conducted		EIRP		
		RB		RB						
		Size	Offset	Size	Offset	Power (dBm)	Power (Watts)	EIRP (dBm)	EIRP (dBm/10MHz)	EIRP(W)
Lowest	QPSK	0	0	1	99	11.72	0.0149	15.32	15.32	0.0340
Middle		0	0	1	99	11.16	0.0131	14.76	14.76	0.0299
Highest		0	0	1	99	12.33	0.0171	15.93	15.93	0.0392
Lowest	16QAM	0	0	1	99	12.43	0.0175	16.03	16.03	0.0401
Middle		0	0	1	99	11.76	0.0150	15.36	15.36	0.0344
Highest		0	0	1	99	12.62	0.0183	16.22	16.22	0.0419
Lowest	64QAM	0	0	1	99	12.08	0.0161	15.68	15.68	0.0370
Middle		0	0	1	99	11.51	0.0142	15.11	15.11	0.0324
Highest		0	0	1	99	12.35	0.0172	15.95	15.95	0.0394
Limit	EIRP < 0.2W					Result		PASS		

**26dB Bandwidth**

Mode	LTE Band 48C : 26dB BW(MHz)			
QPSK				
BW	20MHz+20MHz	N/A	N/A	N/A
Lowest CH	39.80	-	-	-
Middle CH	39.80	-	-	-
Highest CH	39.72	-	-	-

Mode	LTE Band 48C : 26dB BW(MHz)			
16QAM				
BW	20MHz+20MHz	N/A	N/A	N/A
Lowest CH	39.80	-	-	-
Middle CH	39.88	-	-	-
Highest CH	39.72	-	-	-

Mode	LTE Band 48C : 26dB BW(MHz)			
64QAM				
BW	20MHz+20MHz	N/A	N/A	N/A
Lowest CH	39.88	-	-	-
Middle CH	39.88	-	-	-
Highest CH	39.88	-	-	-

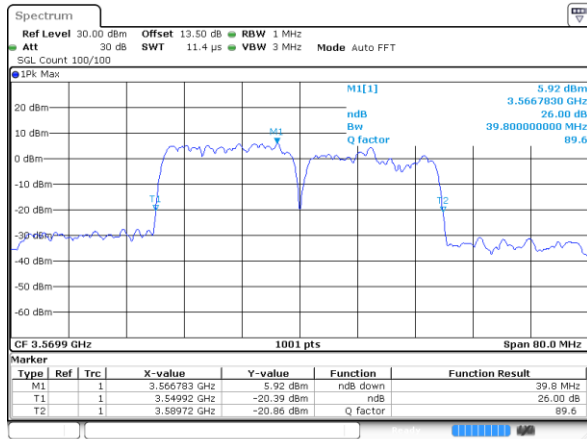


LTE Band 48C

QPSK

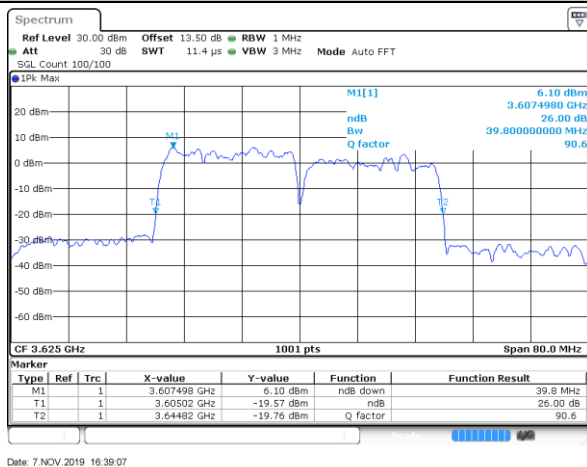
Lowest Channel / 20MHz+20MHz

N/A



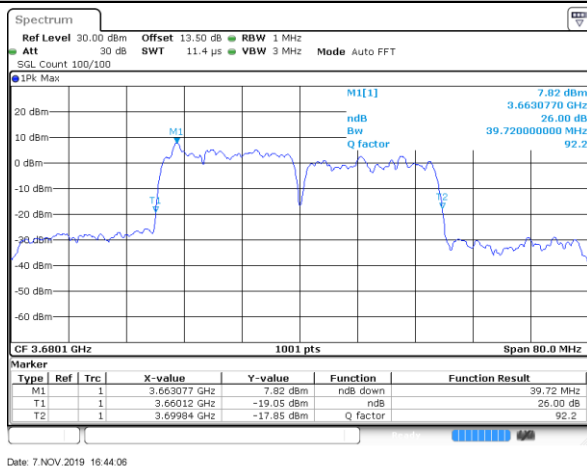
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A



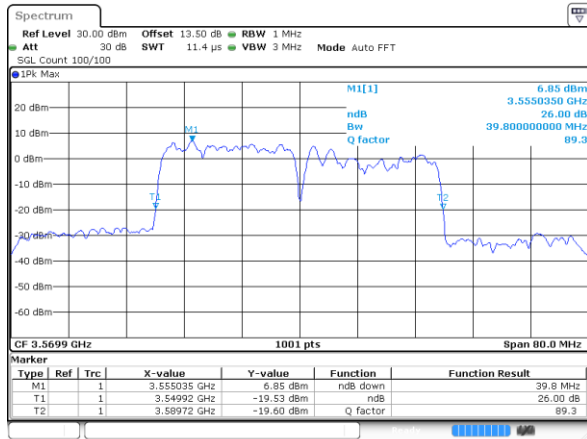


LTE Band 48C

16QAM

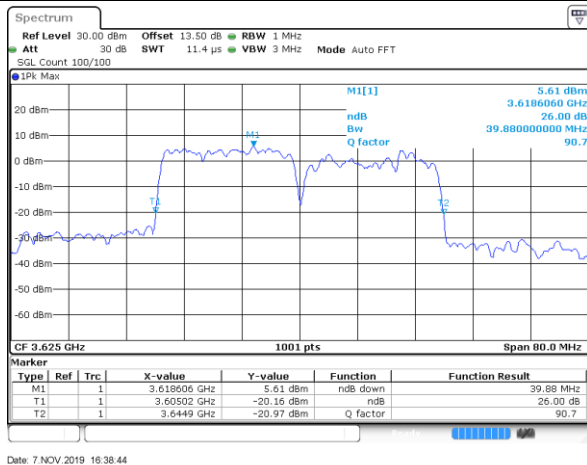
Lowest Channel / 20MHz+20MHz

N/A



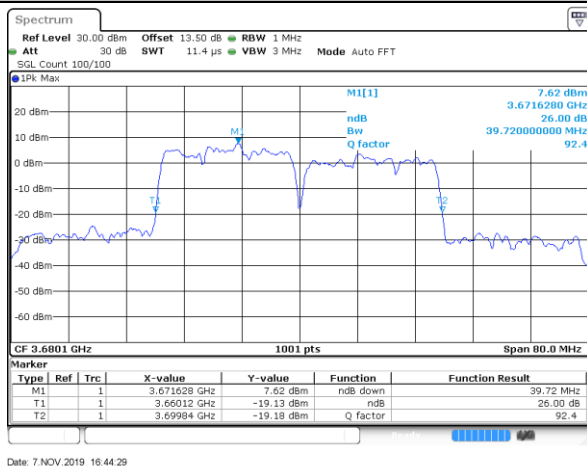
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A



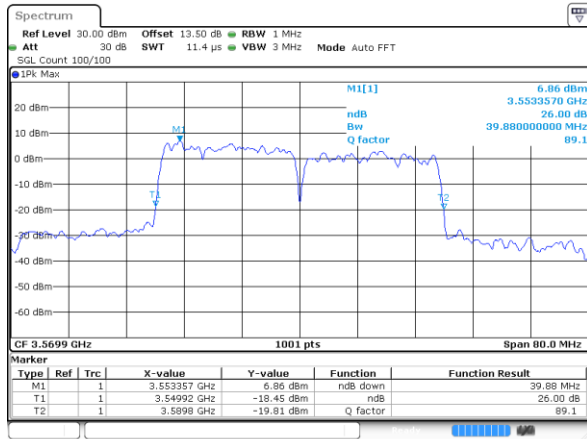


LTE Band 48C

64QAM

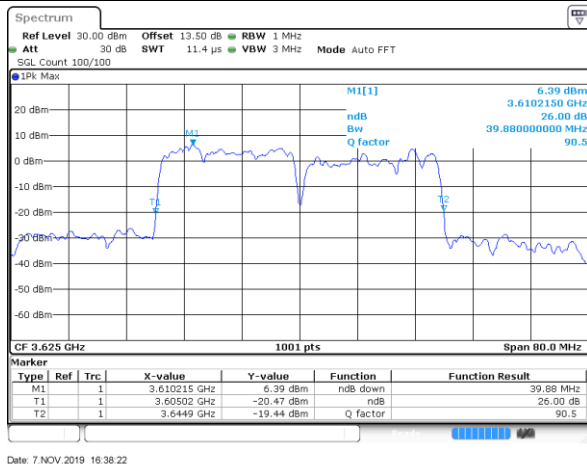
Lowest Channel / 20MHz+20MHz

N/A



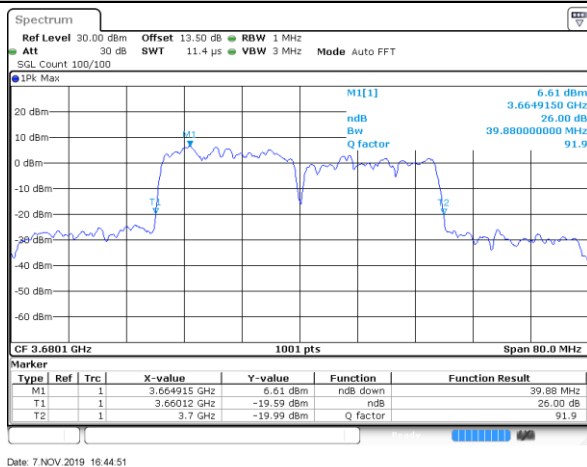
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A



**Occupied Bandwidth**

Mode	LTE Band 48C : 99%OBW(MHz)			
QPSK				
BW	20MHz+20MHz	N/A	N/A	N/A
Lowest CH	37.88	-	-	-
Middle CH	37.64	-	-	-
Highest CH	37.88	-	-	-

Mode	LTE Band 48C : 99%OBW(MHz)			
16QAM				
BW	20MHz+20MHz	N/A	N/A	N/A
Lowest CH	38.04	-	-	-
Middle CH	37.72	-	-	-
Highest CH	37.72	-	-	-

Mode	LTE Band 48C : 99%OBW(MHz)			
64QAM				
BW	20MHz+20MHz	N/A	N/A	N/A
Lowest CH	37.80	-	-	-
Middle CH	37.72	-	-	-
Highest CH	37.96	-	-	-

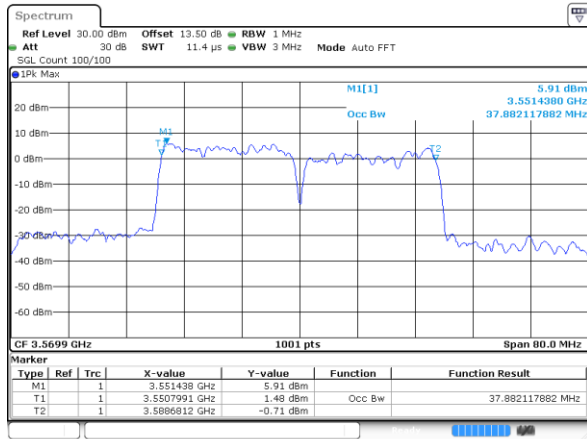


LTE Band 48C

QPSK

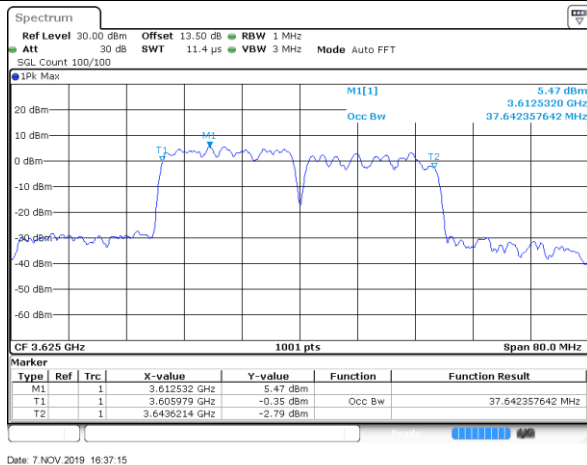
Lowest Channel / 20MHz+20MHz

N/A



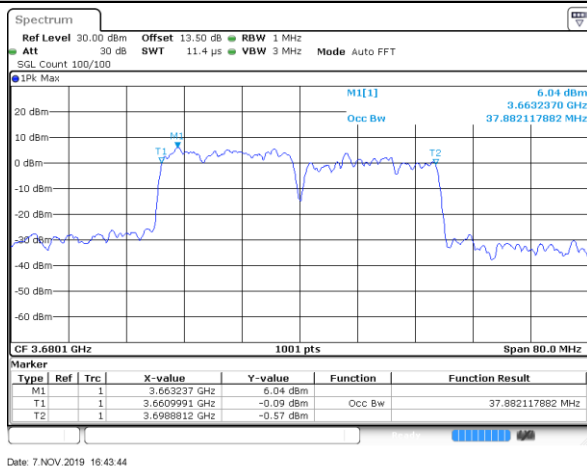
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A



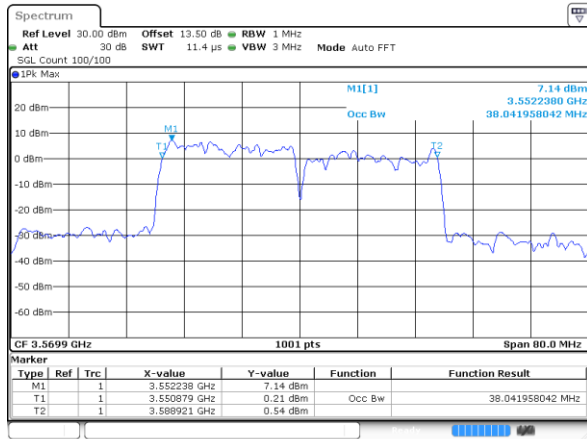


LTE Band 48C

16QAM

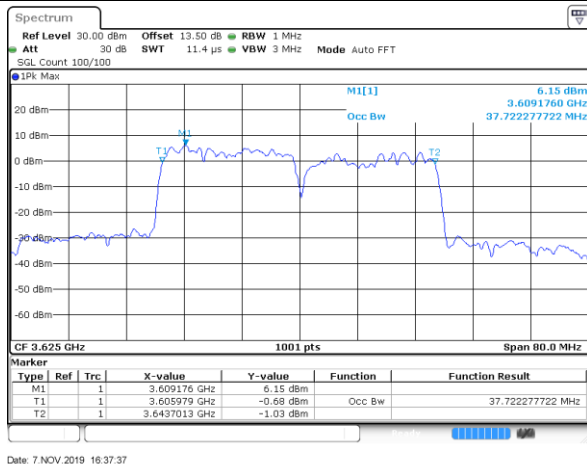
Lowest Channel / 20MHz+20MHz

N/A



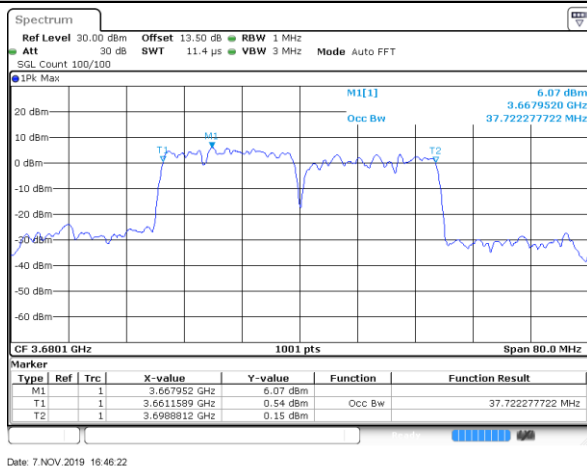
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A



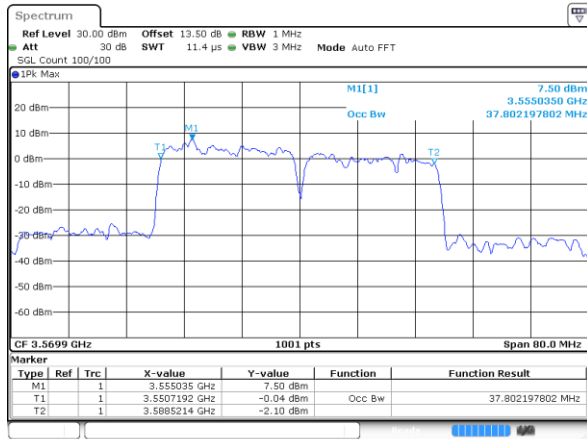


LTE Band 48C

64QAM

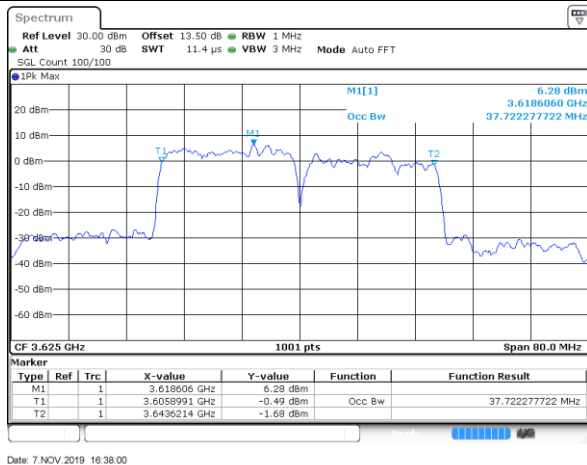
Lowest Channel / 20MHz+20MHz

N/A



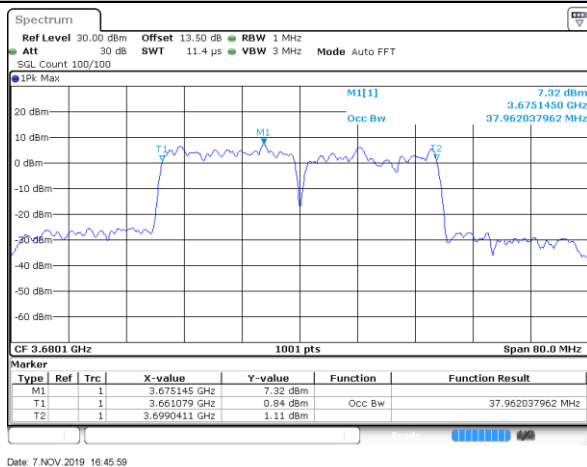
Middle Channel / 20MHz+20MHz

N/A



Highest Channel / 20MHz+20MHz

N/A





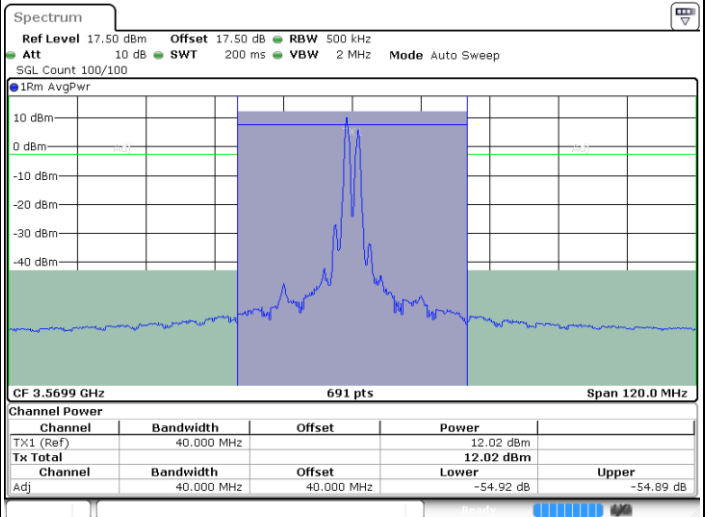
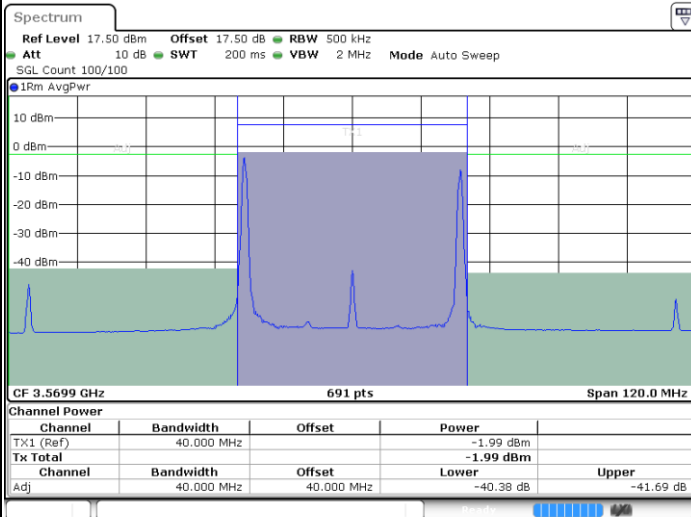
ACLR

LTE Band 48C / 20MHz+20MHz

QPSK

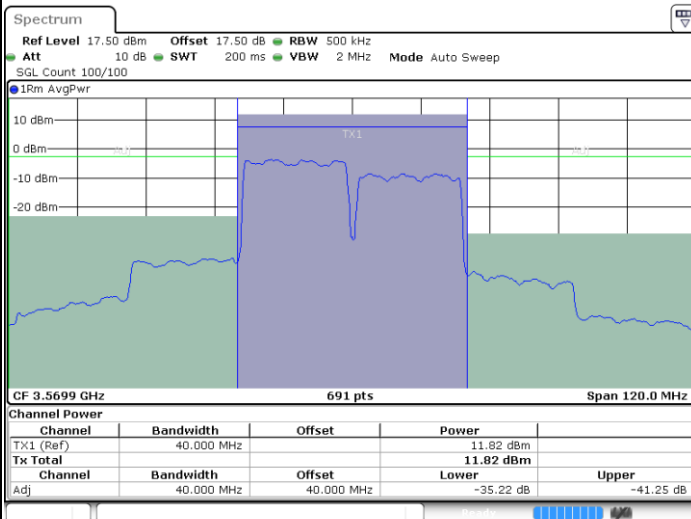
Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0



Lowest Channel / FullRB

N/A



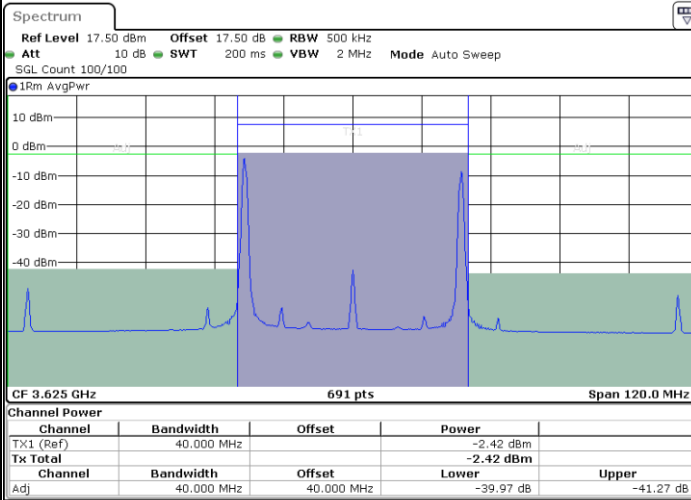


LTE Band 48C / 20MHz+20MHz

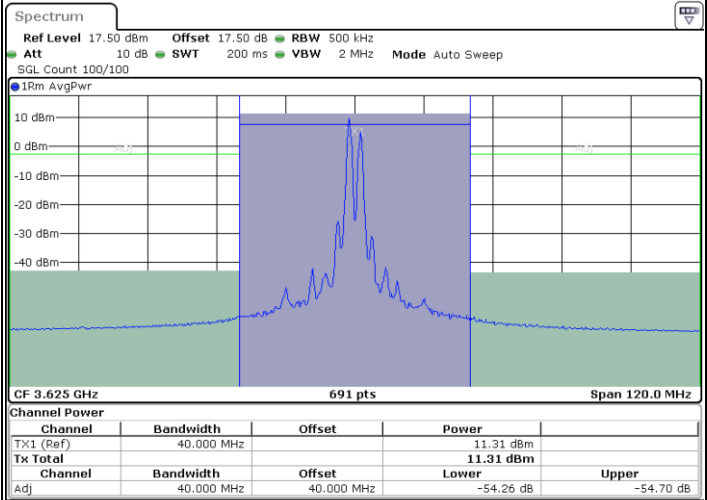
QPSK

MiddleChannel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0



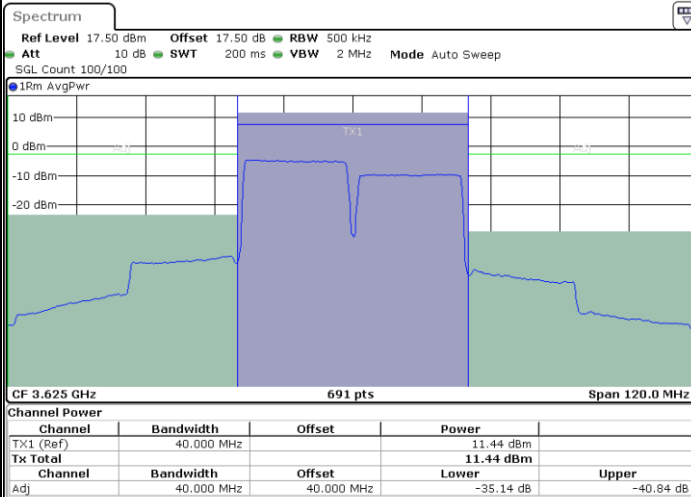
Date: 7.NOV.2019 16:32:55



Date: 7.NOV.2019 16:33:36

Middle Channel / FullIRB

N/A



Date: 7.NOV.2019 16:29:28

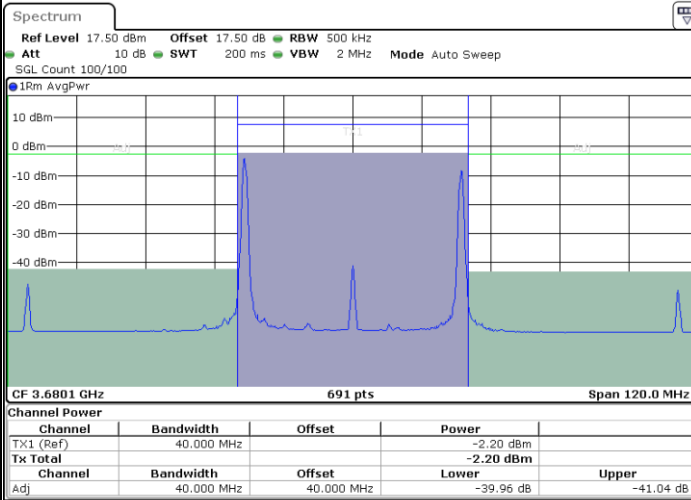


LTE Band 48C / 20MHz+20MHz

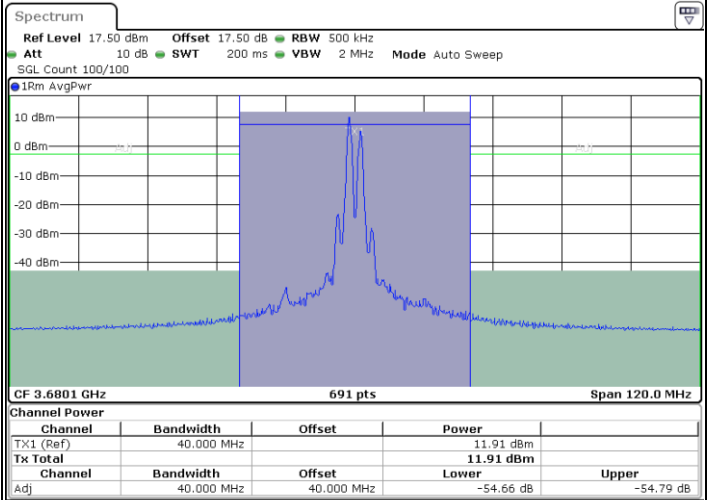
QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0



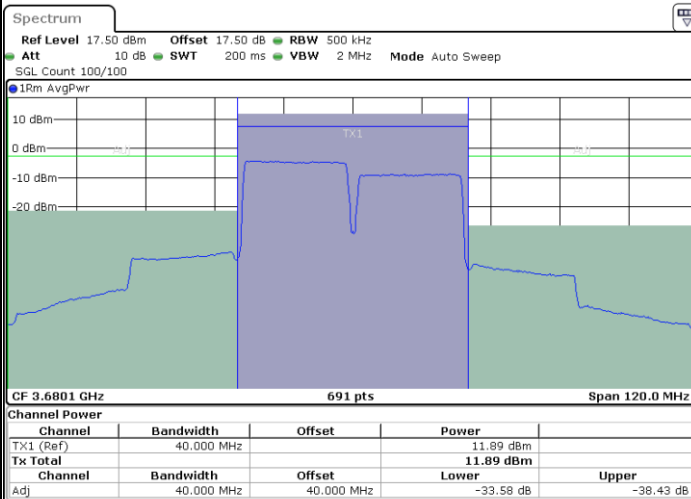
Date: 7.NOV.2019 18:00:28



Date: 7.NOV.2019 18:03:53

Highest Channel / FullIRB

N/A



Date: 7.NOV.2019 17:59:47

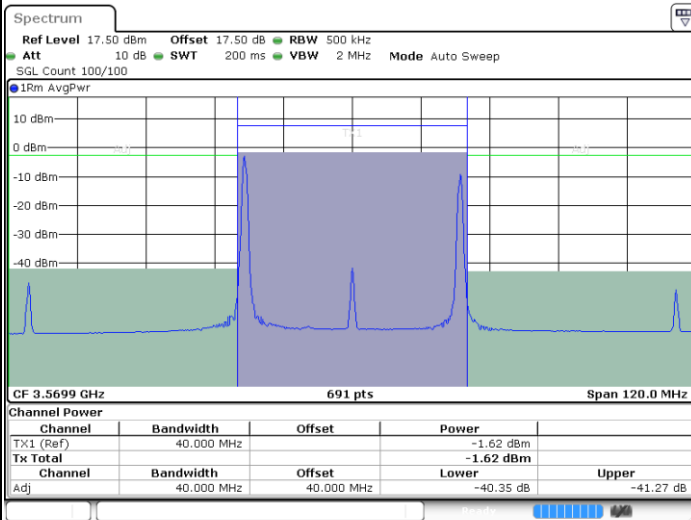


LTE Band 48C / 20MHz+20MHz

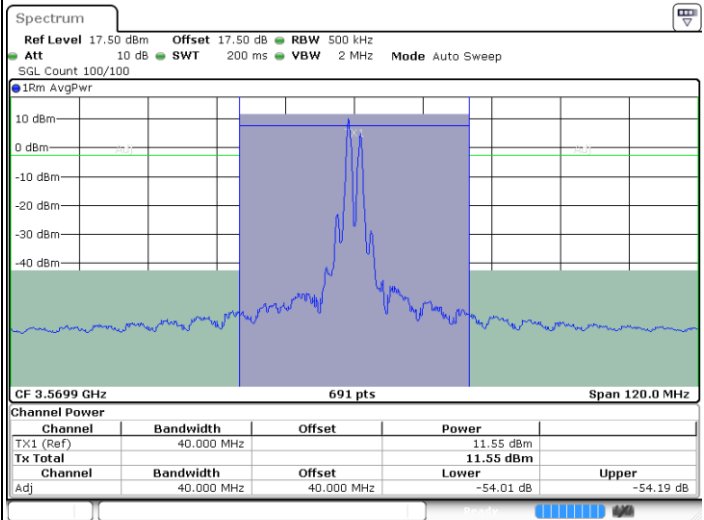
16QAM

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0



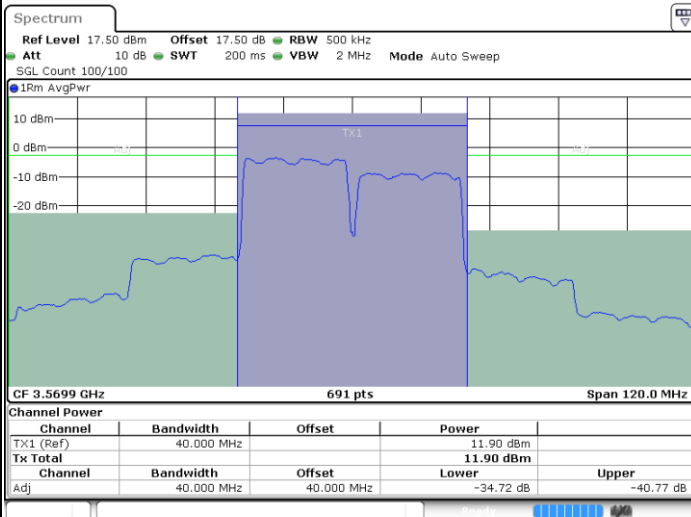
Date: 7.NOV.2019 15:41:17



Date: 7.NOV.2019 15:43:18

Lowest Channel / FullRB

N/A



Date: 7.NOV.2019 15:39:16

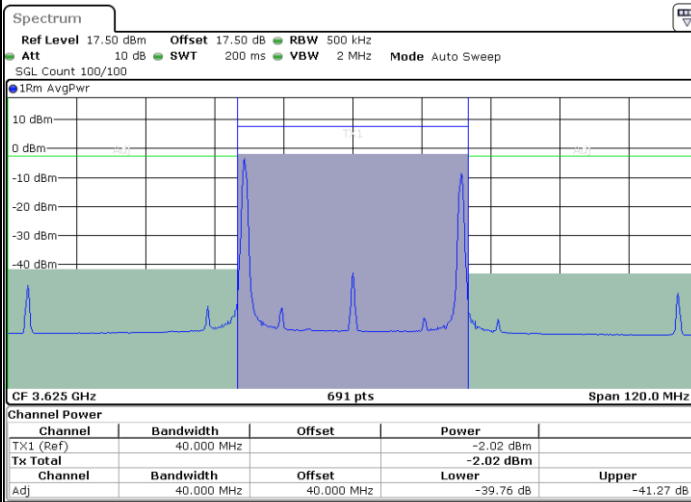


LTE Band 48C / 20MHz+20MHz

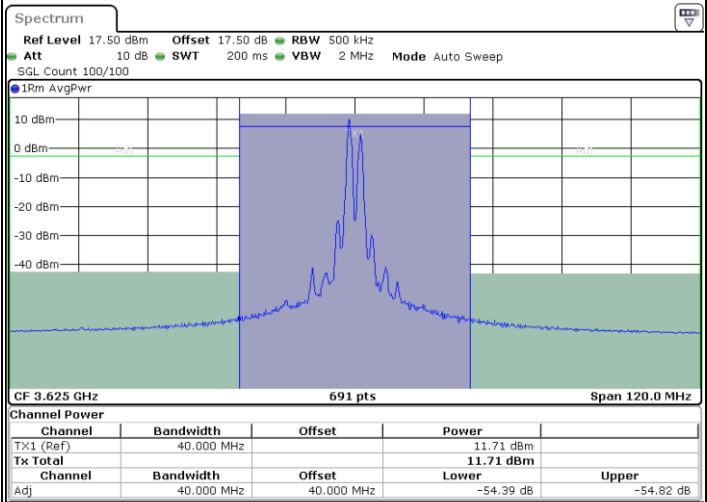
16QAM

MiddleChannel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0



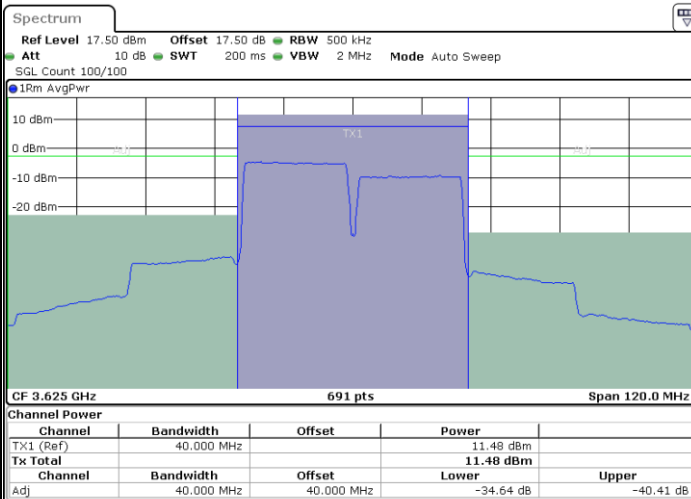
Date: 7.NOV.2019 16:32:14



Date: 7.NOV.2019 16:34:17

Middle Channel / FullRB

N/A



Date: 7.NOV.2019 16:30:10

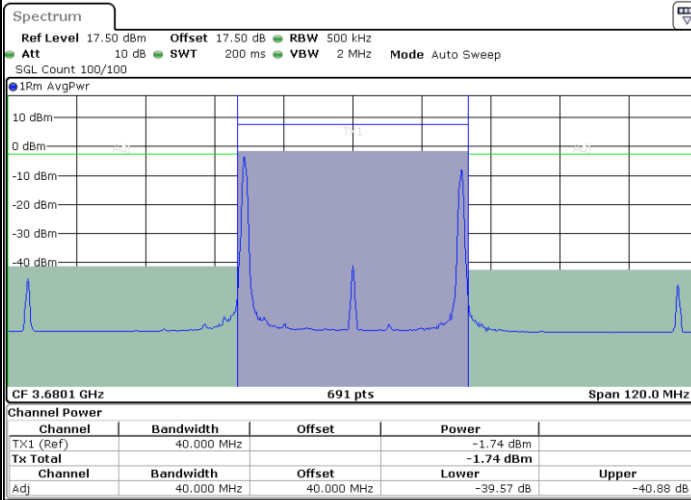


LTE Band 48C / 20MHz+20MHz

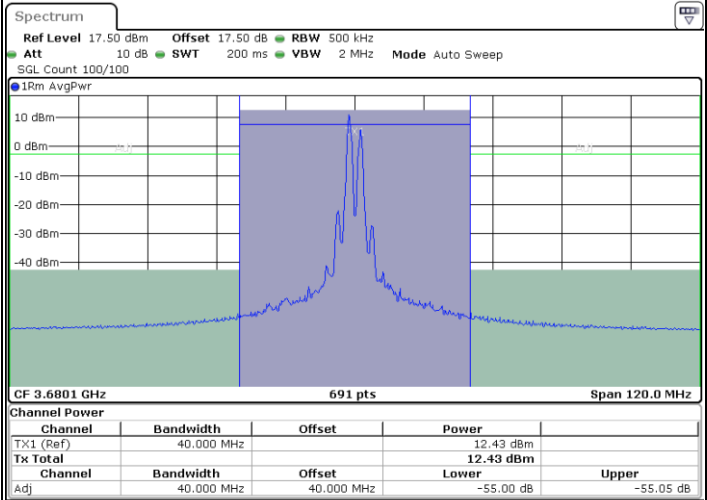
16QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0



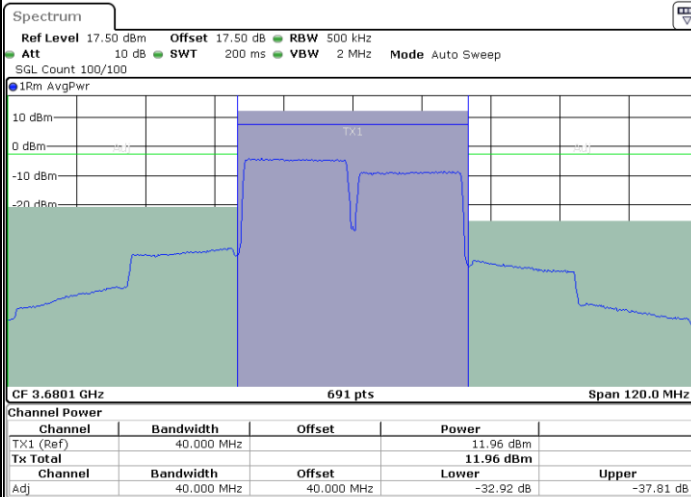
Date: 7.NOV.2019 18:01:10



Date: 7.NOV.2019 18:03:12

Highest Channel / FullIRB

N/A



Date: 7.NOV.2019 17:59:05

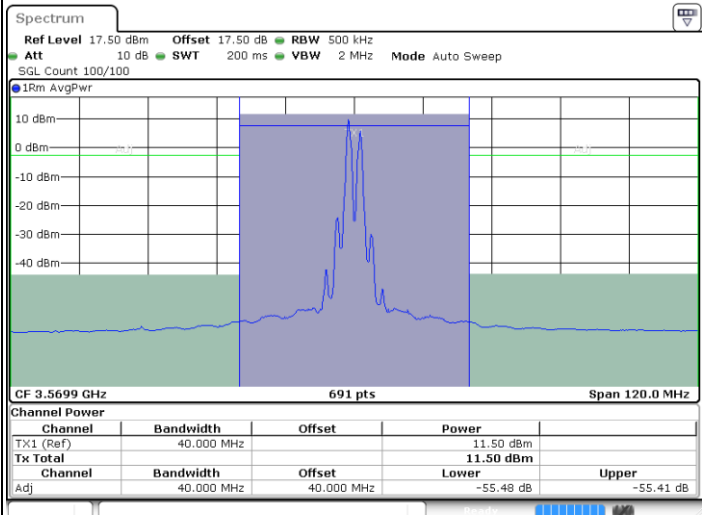
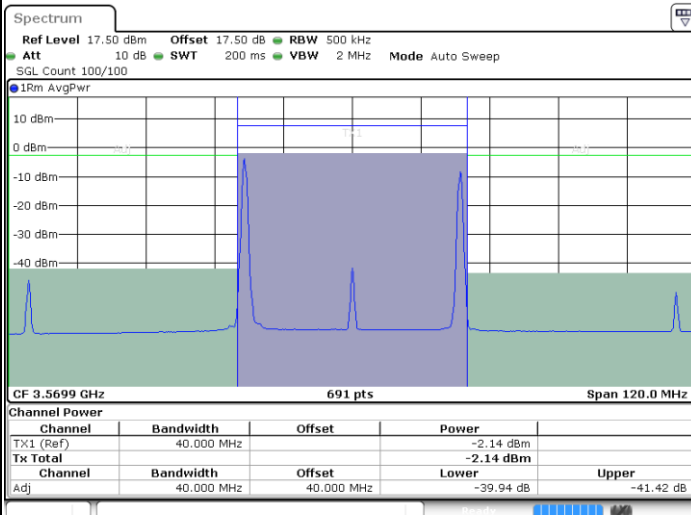


LTE Band 48C / 20MHz+20MHz

64QAM

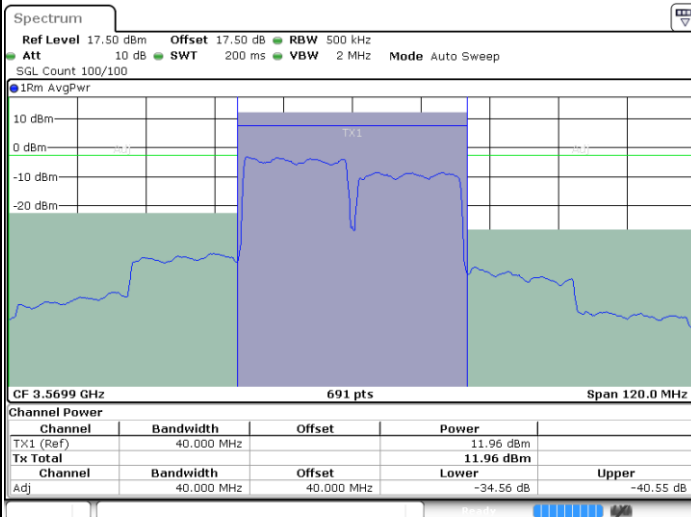
Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0



Lowest Channel / FullRB

N/A



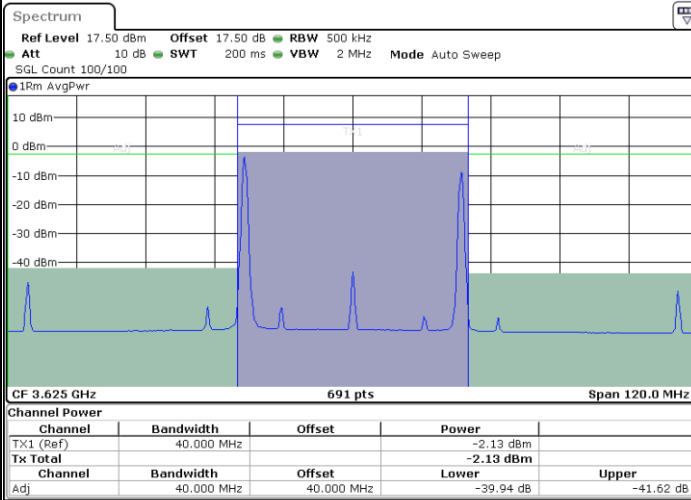


LTE Band 48C / 20MHz+20MHz

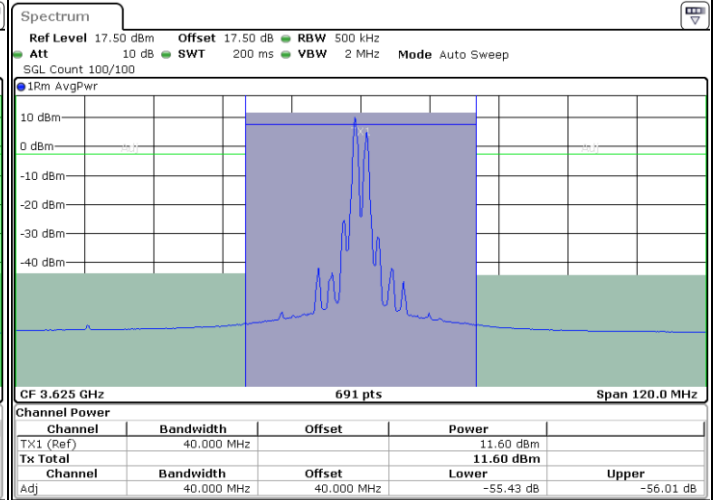
64QAM

MiddleChannel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0



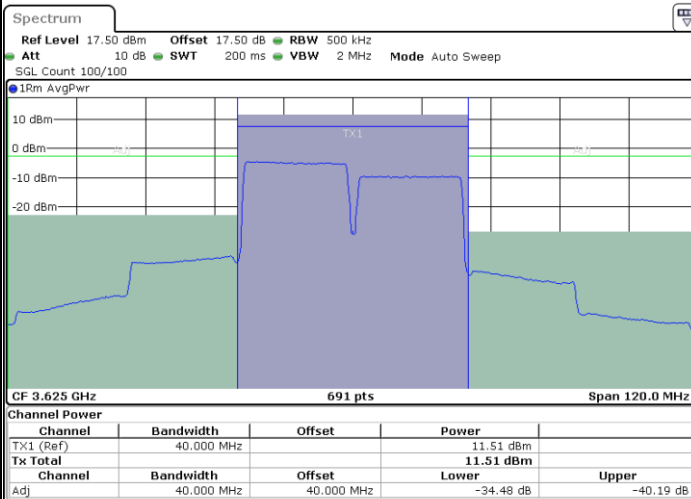
Date: 7.NOV.2019 16:31:32



Date: 7.NOV.2019 16:34:58

Middle Channel / FullIRB

N/A



Date: 7.NOV.2019 16:30:51

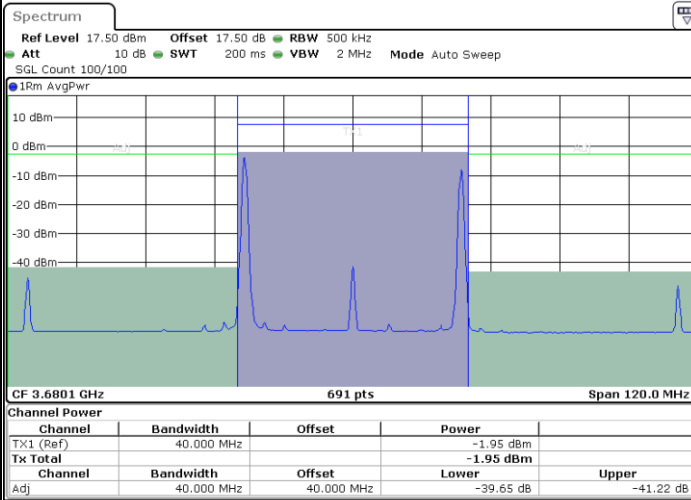


LTE Band 48C / 20MHz+20MHz

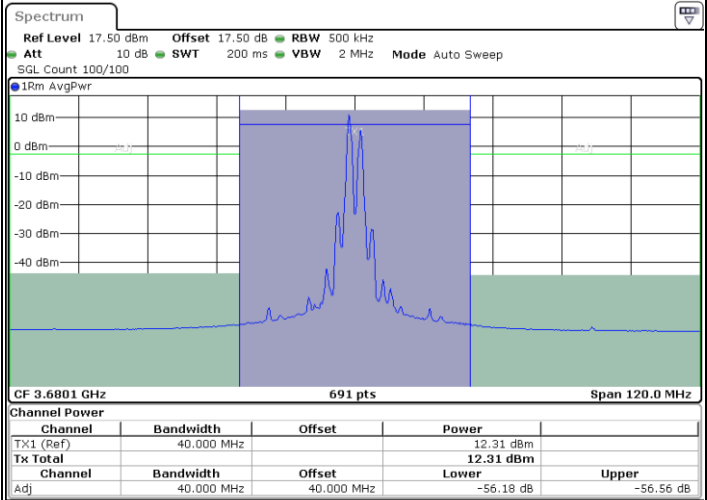
64QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0



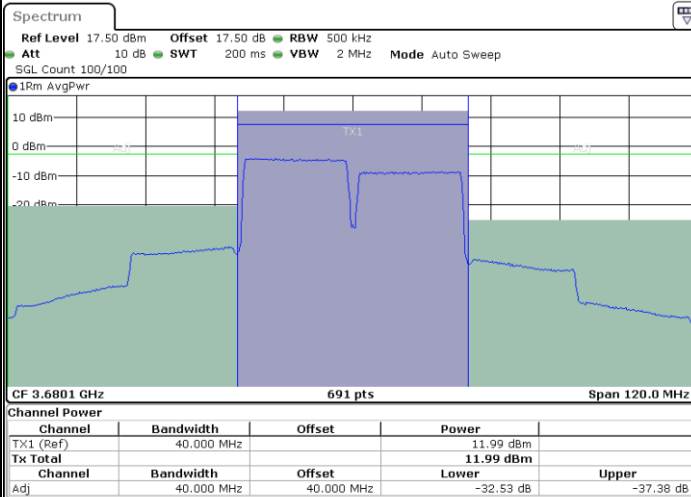
Date: 7.NOV.2019 18:01:51



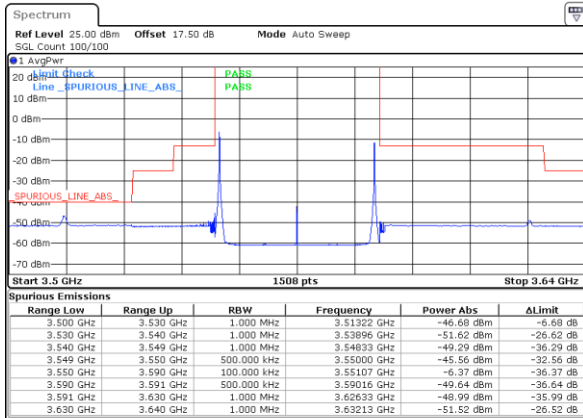
Date: 7.NOV.2019 18:02:31

Highest Channel / FullIRB

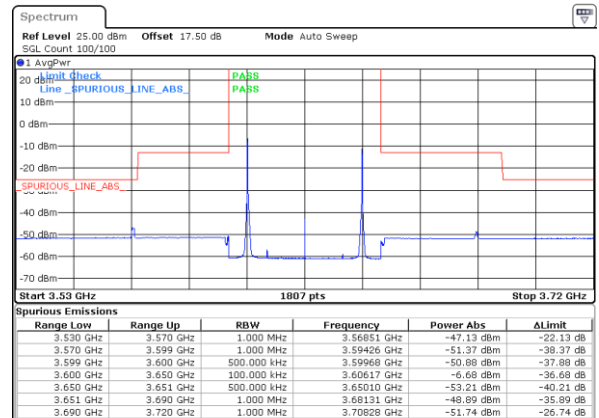
N/A



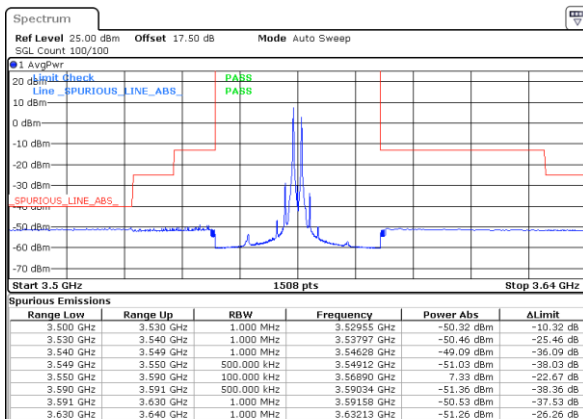
Date: 7.NOV.2019 17:58:24

**Conducted Band Edge****LTE Band 48C / 20MHz+20MHz****QPSK****Lowest Band Edge / 1RB0 and 1RB99**

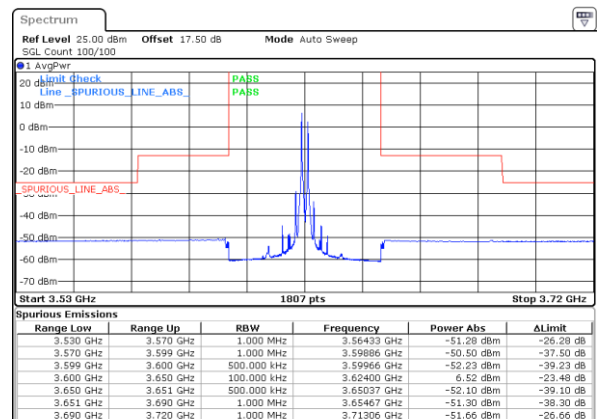
Date: 7 NOV 2019 14:58:47

Middle Band Edge / 1RB0 and 1RB99

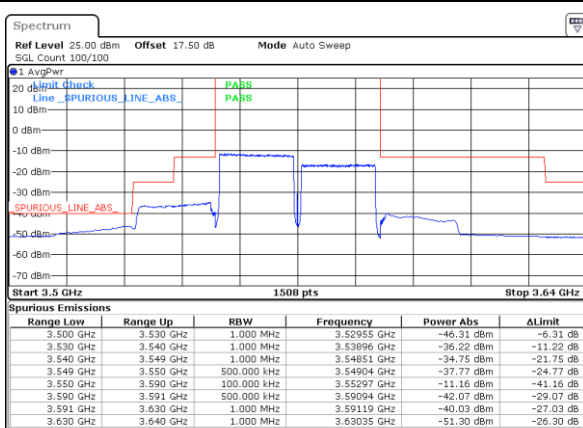
Date: 7 NOV 2019 16:03:35

Lowest Band Edge / 1RB99 and 1RB0

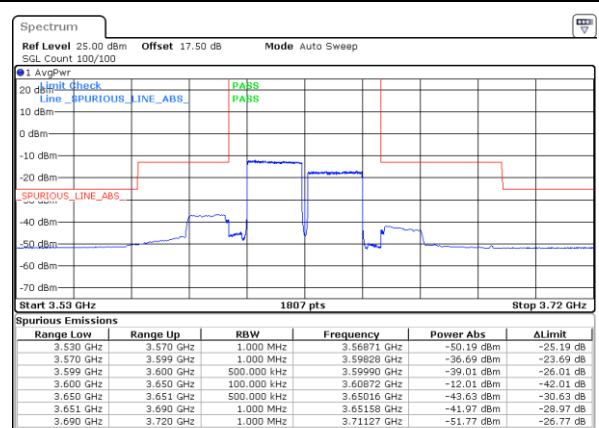
Date: 7 NOV 2019 15:00:35

Middle Band Edge / 1RB99 and 1RB0

Date: 7 NOV 2019 16:05:46

Lowest Band Edge / Full RB

Date: 7 NOV 2019 14:17:26

Middle Band Edge / Full RB

Date: 7 NOV 2019 14:42:37

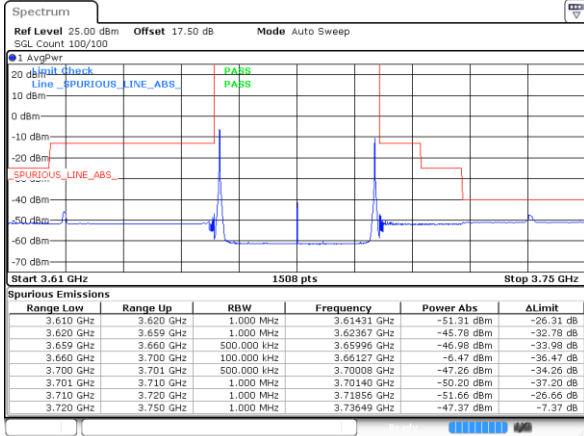


LTE Band 48C / 20MHz+20MHz

QPSK

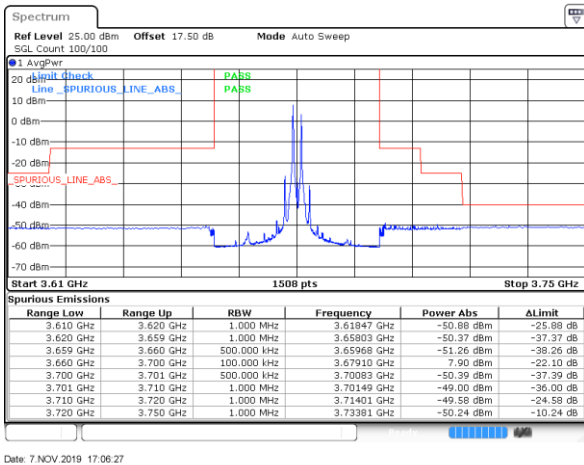
Highest Band Edge / 1RB0 and 1RB99

N/A



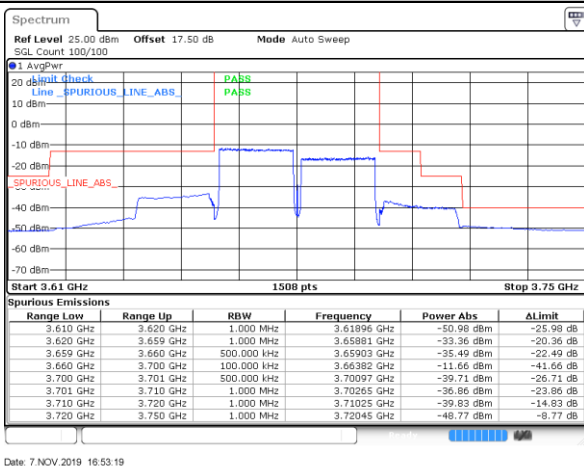
Highest Band Edge / 1RB99 and 1RB0

N/A



Highest Band Edge / Full RB

N/A

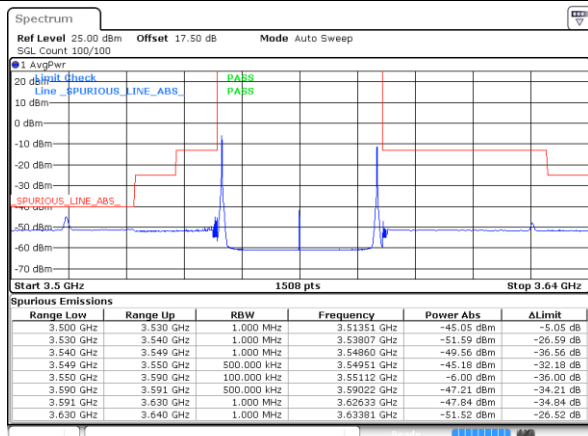




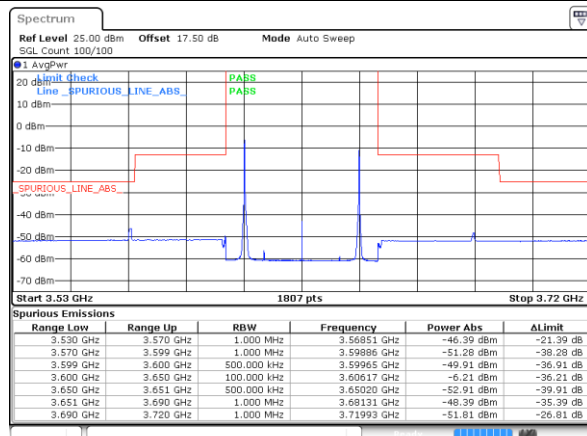
LTE Band 48C / 20MHz+20MHz

16QAM

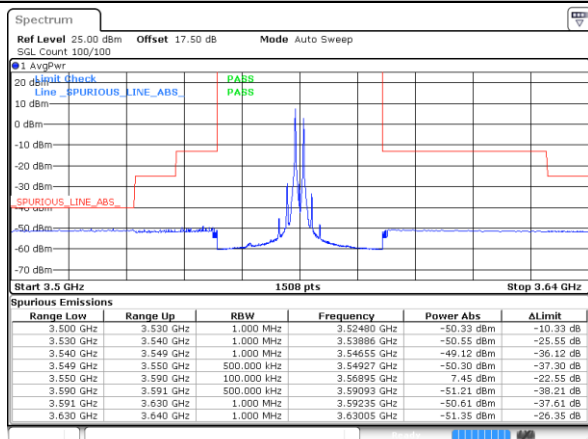
Lowest Band Edge / 1RB0 and 1RB99



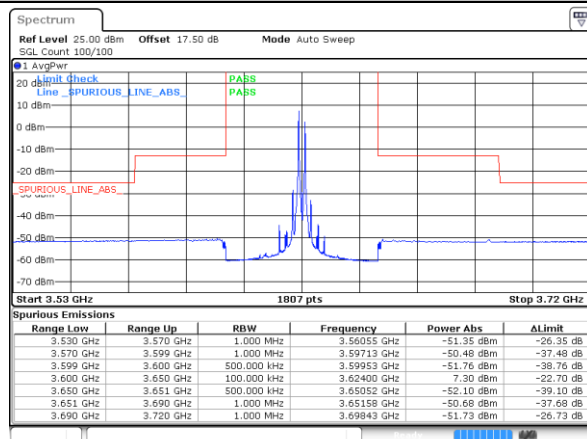
Middle Band Edge / 1RB0 and 1RB99



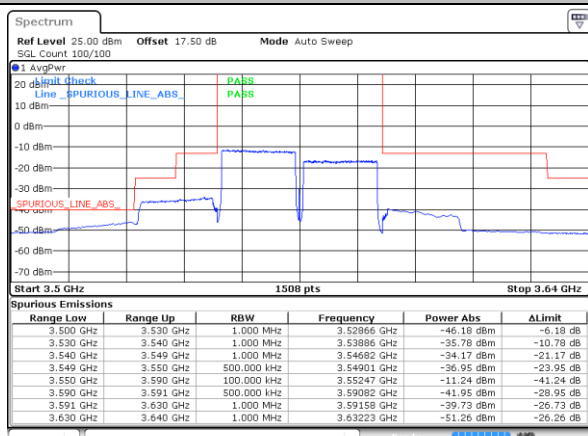
Lowest Band Edge / 1RB99 and 1RB0



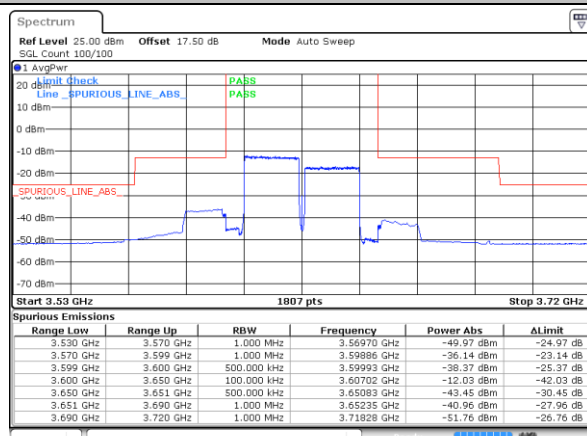
Middle Band Edge / 1RB99 and 1RB0



Lowest Band Edge / Full RB



Middle Band Edge / Full RB



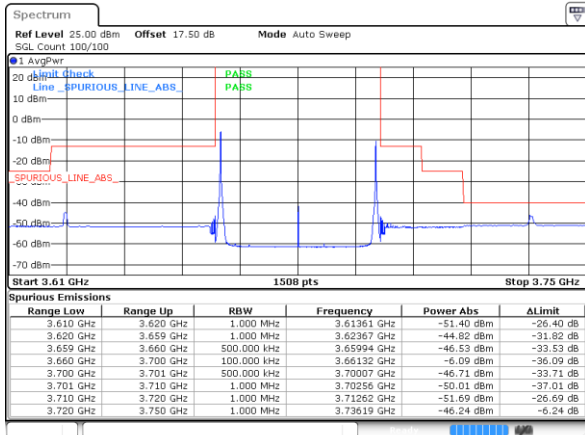


LTE Band 48C / 20MHz+20MHz

16QAM

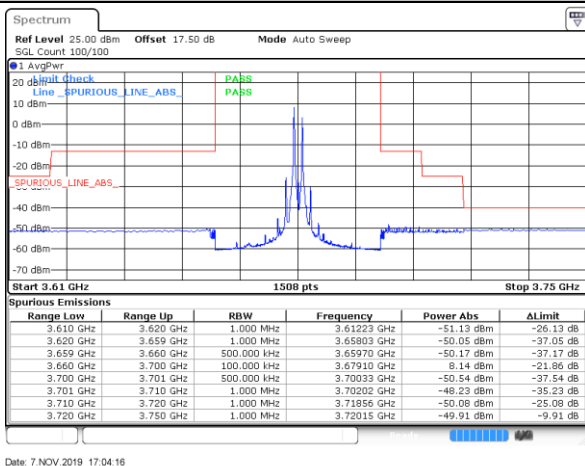
Highest Band Edge / 1RB0 and 1RB99

N/A



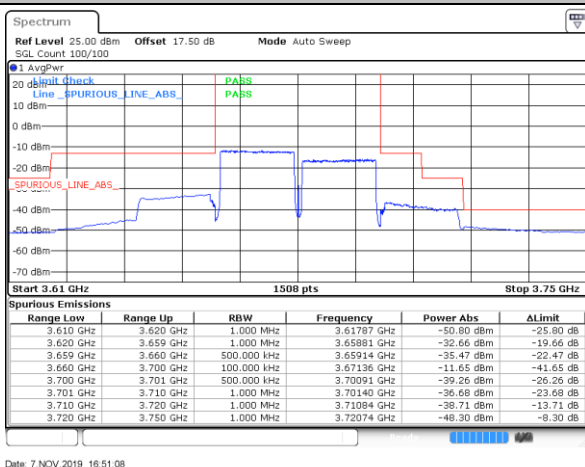
Highest Band Edge / 1RB99 and 1RB0

N/A



Highest Band Edge / Full RB

N/A

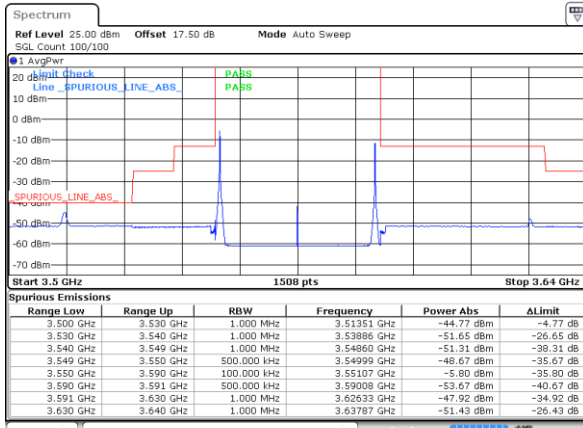




LTE Band 48C / 20MHz+20MHz

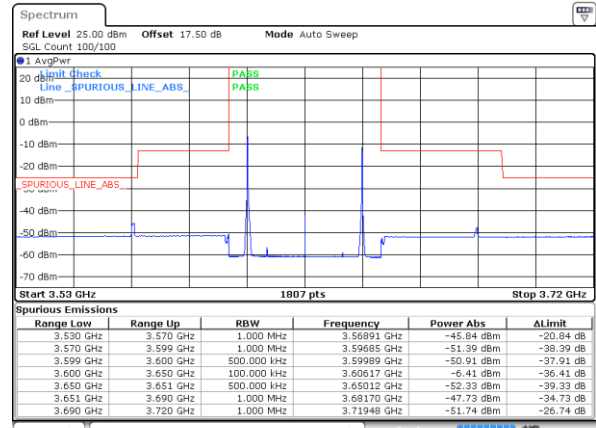
64QAM

Lowest Band Edge / 1RB0 and 1RB99



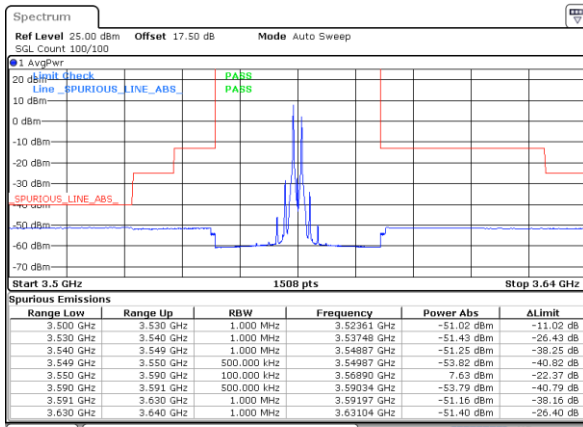
Date: 7 NOV 2019 14:55:11

Middle Band Edge / 1RB0 and 1RB99



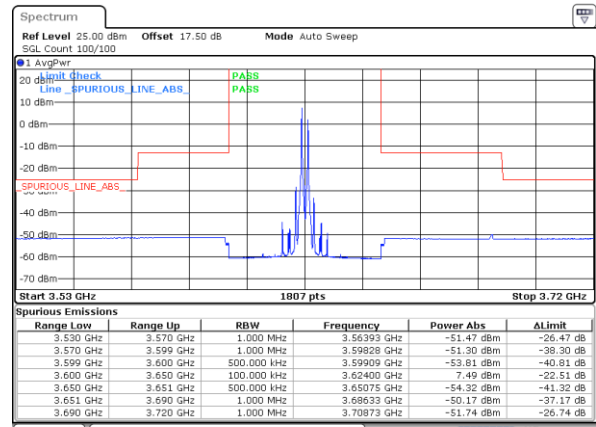
Date: 7 NOV 2019 15:59:12

Lowest Band Edge / 1RB99 and 1RB0



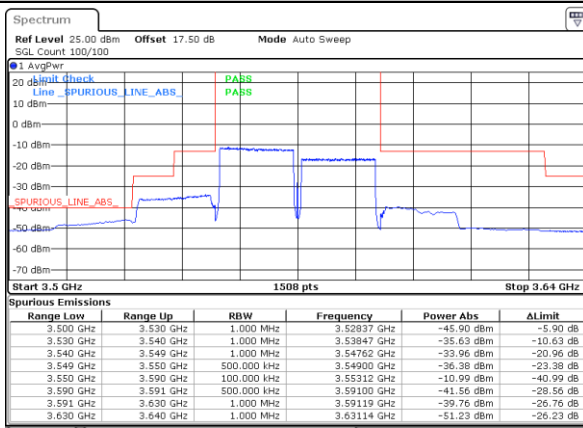
Date: 7 NOV 2019 15:04:12

Middle Band Edge / 1RB99 and 1RB0



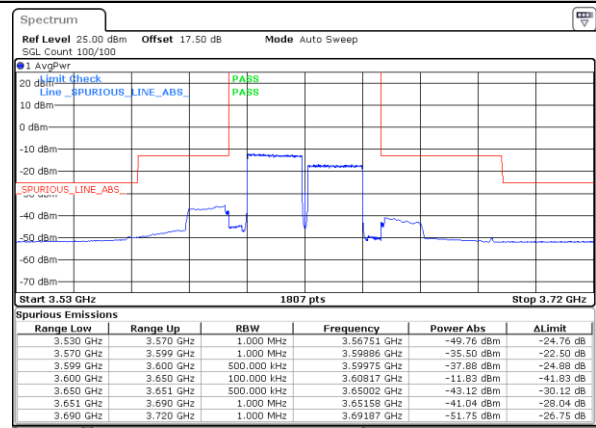
Date: 7 NOV 2019 16:10:09

Lowest Band Edge / Full RB



Date: 7 NOV 2019 14:21:03

Middle Band Edge / Full RB



Date: 7 NOV 2019 15:57:00

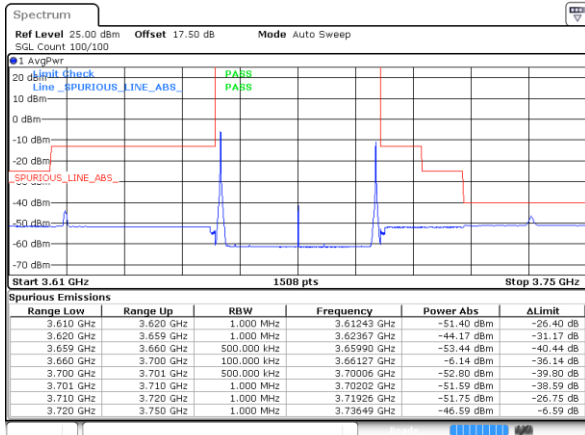


LTE Band 48C / 20MHz+20MHz

64QAM

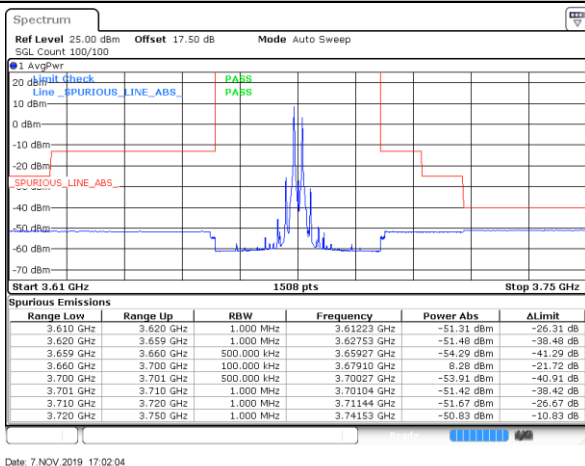
Highest Band Edge / 1RB0 and 1RB99

N/A



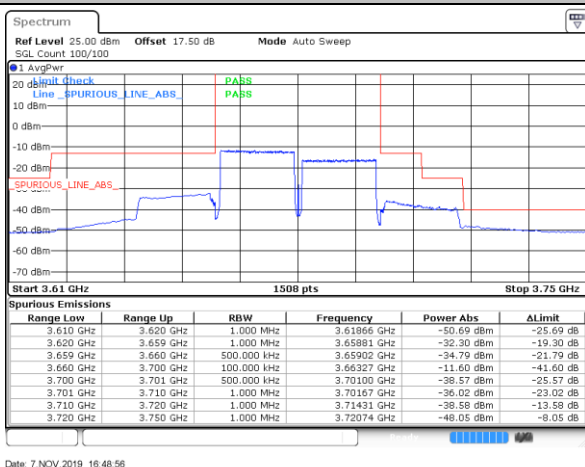
Highest Band Edge / 1RB99 and 1RB0

N/A



Highest Band Edge / Full RB

N/A





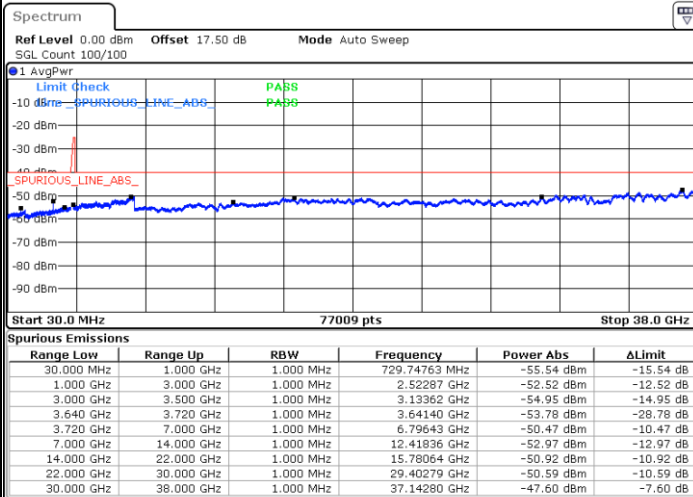
Conducted Spurious Emission

LTE Band 48C / 20MHz+20MHz

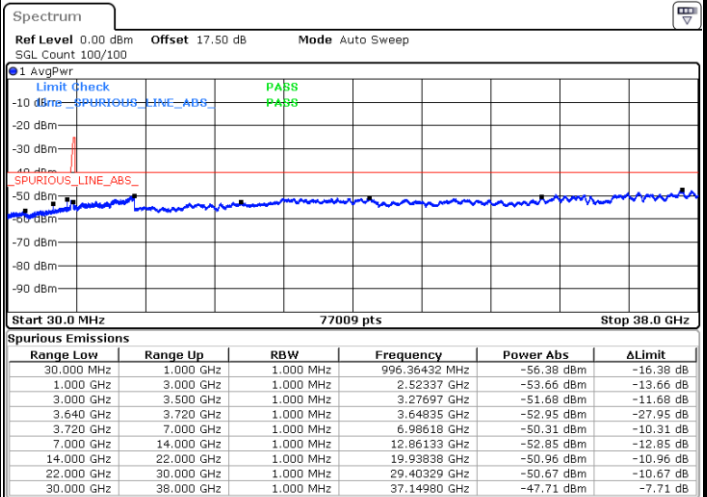
QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0



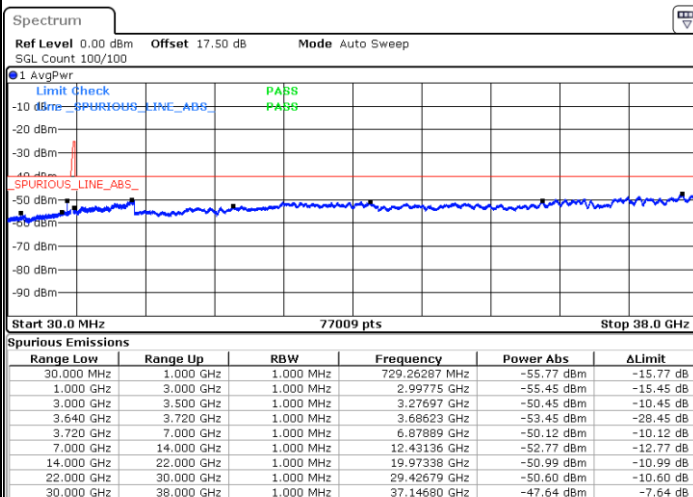
Date: 7.NOV.2019 15:09:00



Date: 7.NOV.2019 15:07:48

Lowest Channel / FullIRB

N/A



Date: 7.NOV.2019 15:15:00

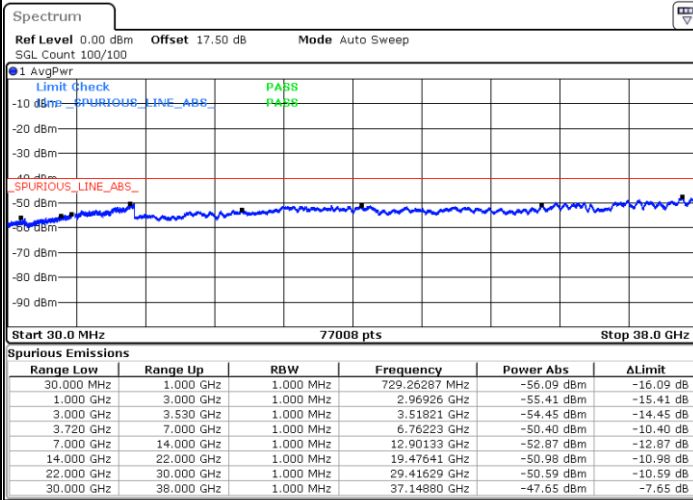


LTE Band 48C / 20MHz+20MHz

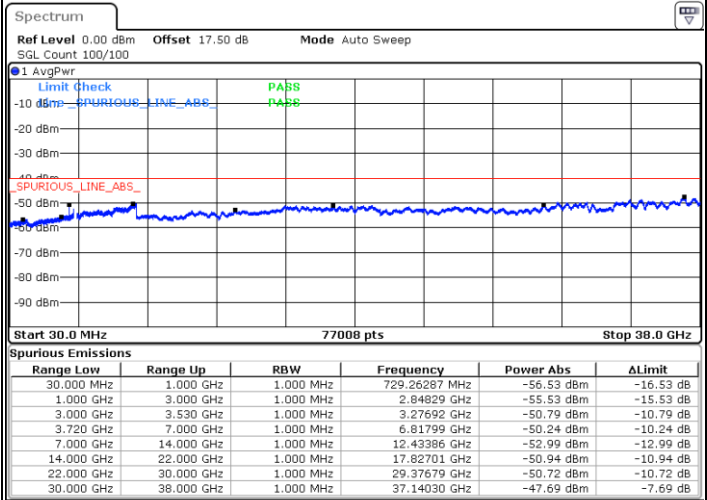
QPSK

MiddleChannel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0



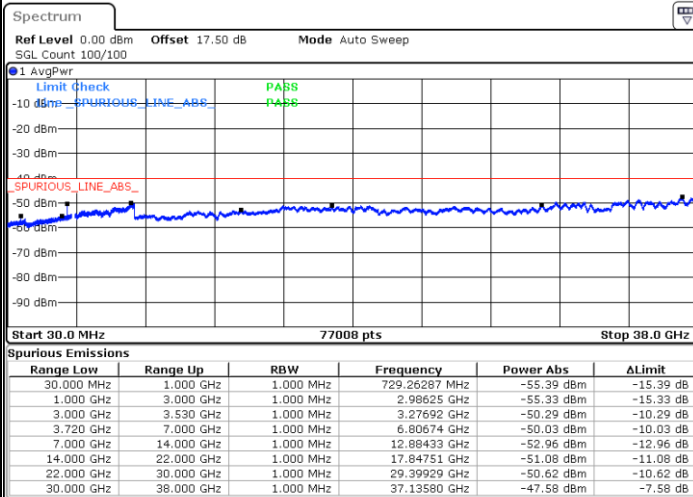
Date: 7.NOV.2019 16:17:22



Date: 7.NOV.2019 16:18:34

Middle Channel / FullIRB

N/A



Date: 7.NOV.2019 16:11:21

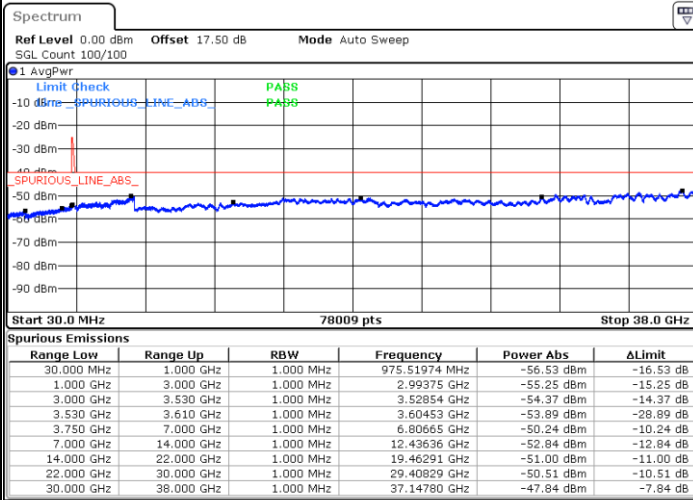


LTE Band 48C / 20MHz+20MHz

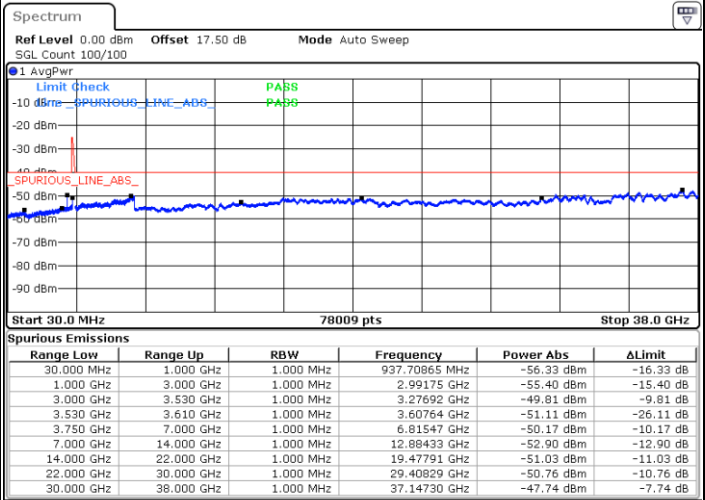
QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0



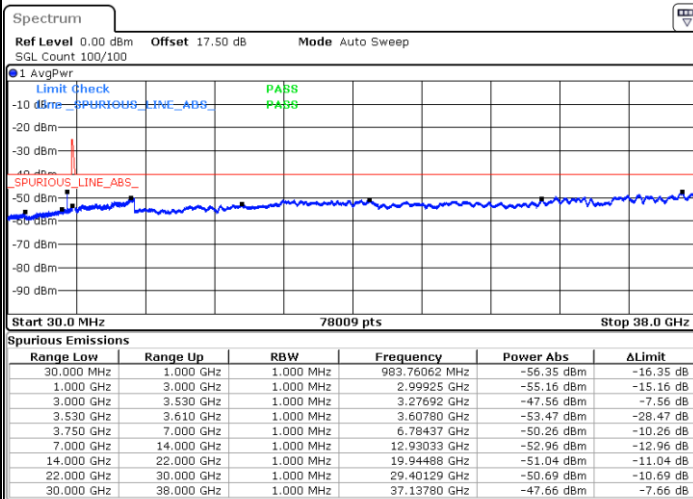
Date: 7.NOV.2019 17:13:40



Date: 7.NOV.2019 17:07:38

Highest Channel / FullIRB

N/A



Date: 7.NOV.2019 17:14:52

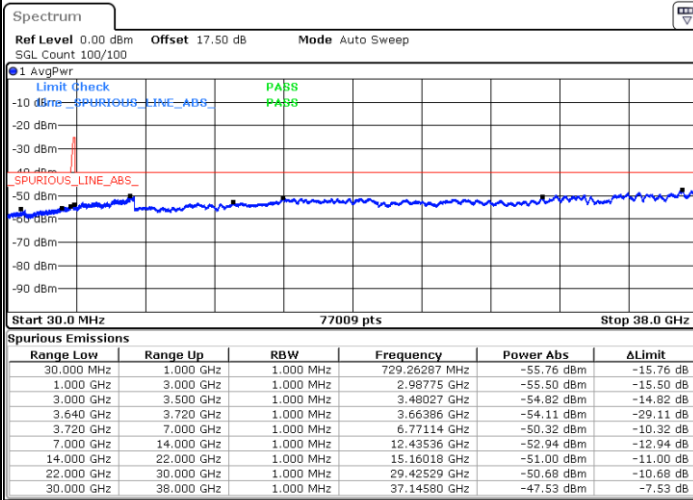


LTE Band 48C / 20MHz+20MHz

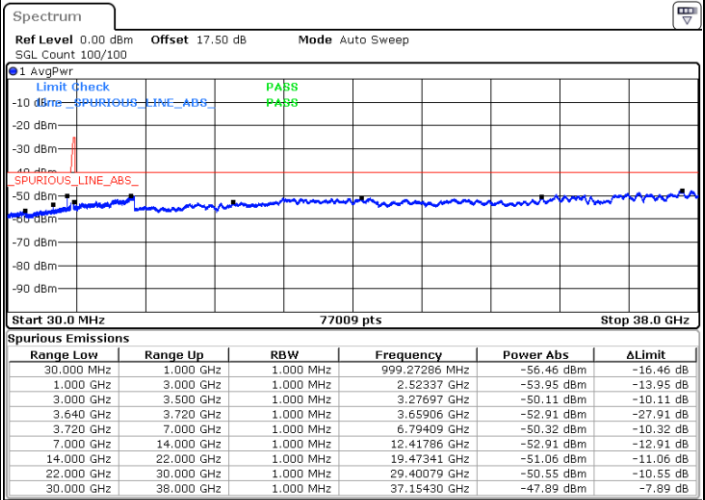
16QAM

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0



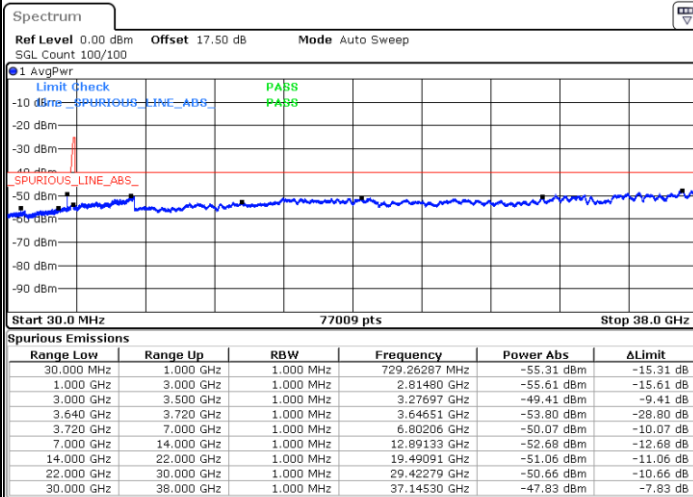
Date: 7.NOV.2019 15:10:12



Date: 7.NOV.2019 15:06:36

Lowest Channel / FullIRB

N/A



Date: 7.NOV.2019 15:13:48

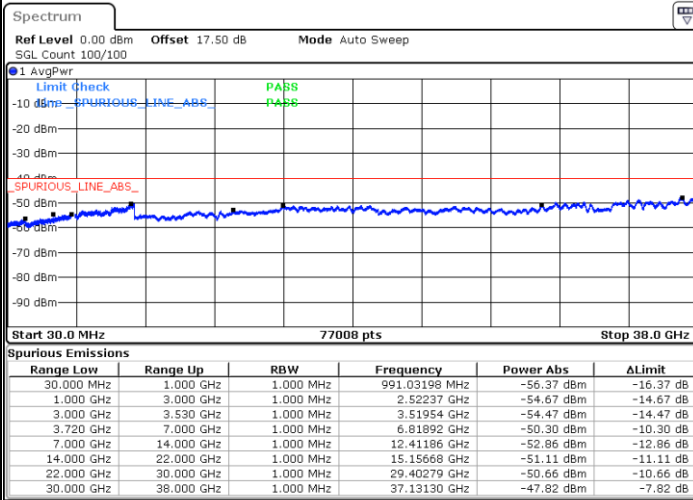


LTE Band 48C / 20MHz+20MHz

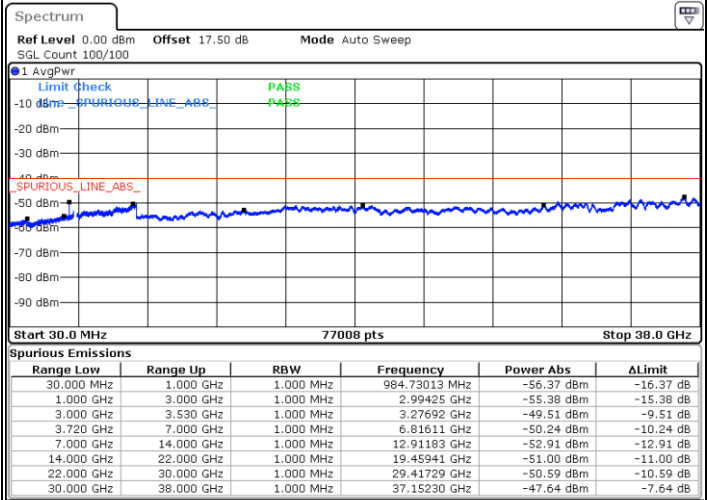
16QAM

MiddleChannel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0



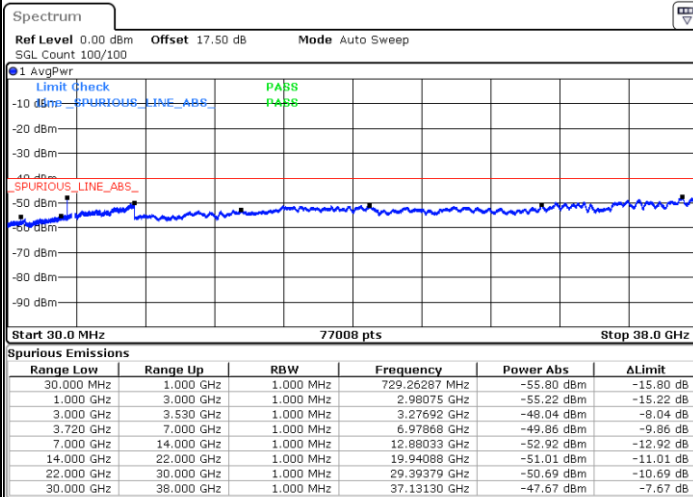
Date: 7.NOV.2019 16:16:10



Date: 7.NOV.2019 16:19:46

Middle Channel / FullIRB

N/A



Date: 7.NOV.2019 16:12:33

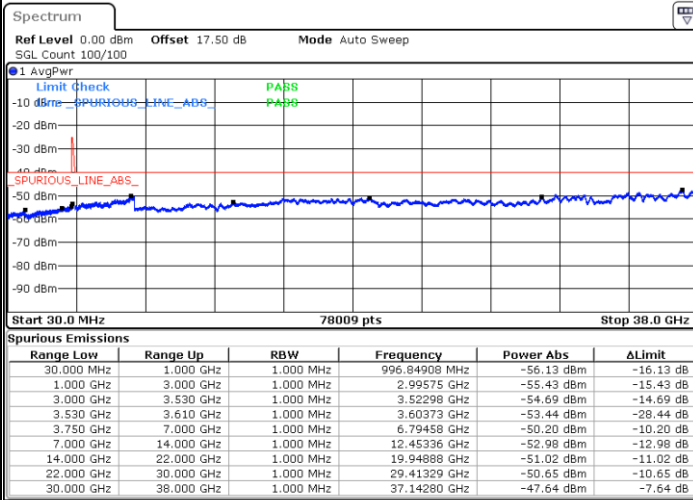


LTE Band 48C / 20MHz+20MHz

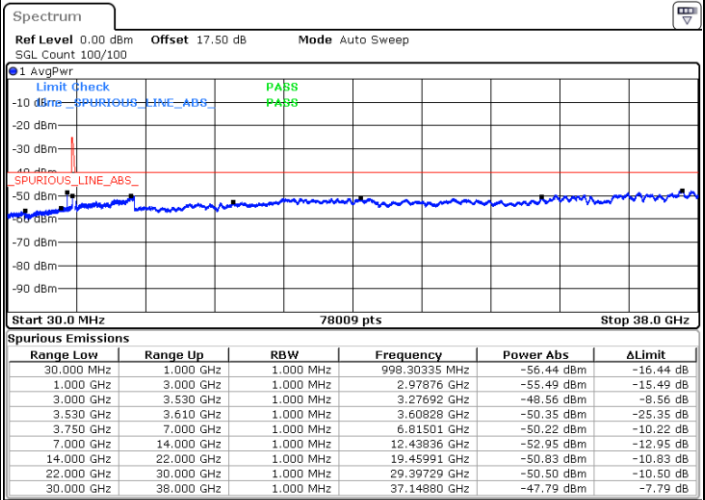
16QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0



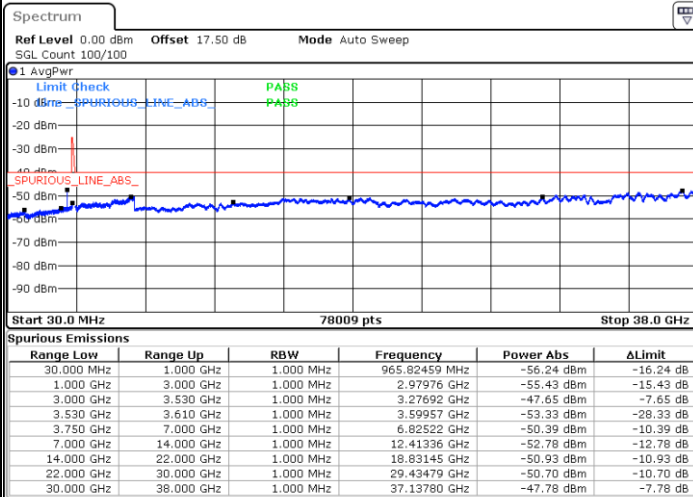
Date: 7.NOV.2019 17:12:27



Date: 7.NOV.2019 17:08:51

Highest Channel / FullRB

N/A



Date: 7.NOV.2019 17:16:04

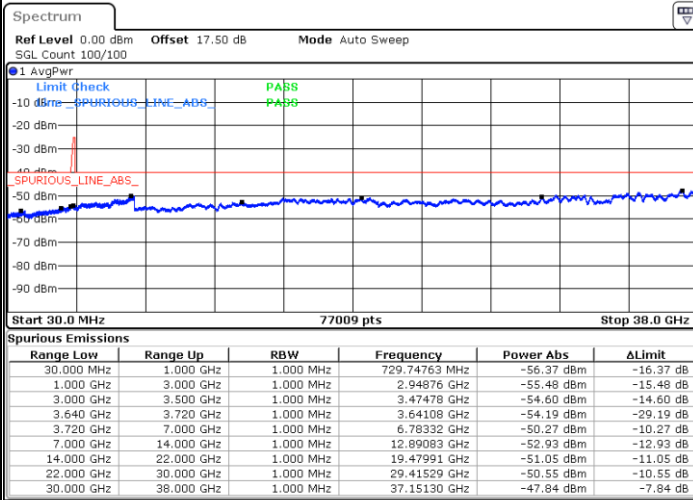


LTE Band 48C / 20MHz+20MHz

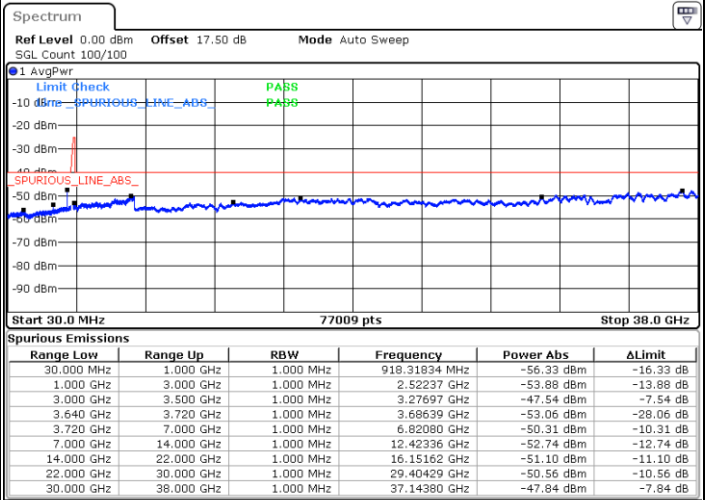
64QAM

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0



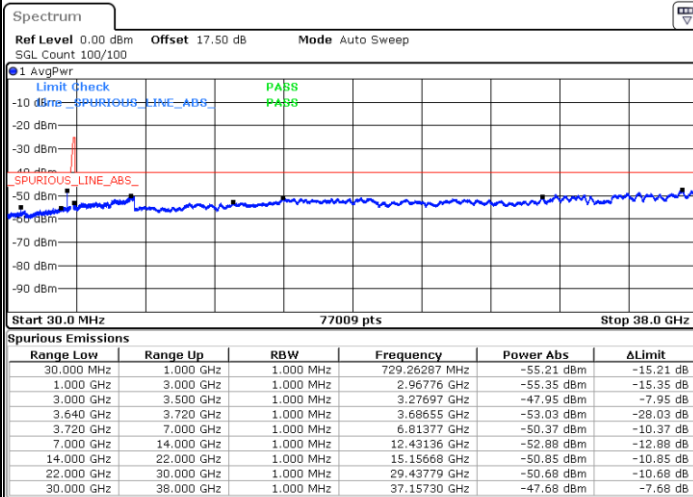
Date: 7.NOV.2019 15:11:24



Date: 7.NOV.2019 15:05:23

Lowest Channel / FullRB

N/A



Date: 7.NOV.2019 15:12:36

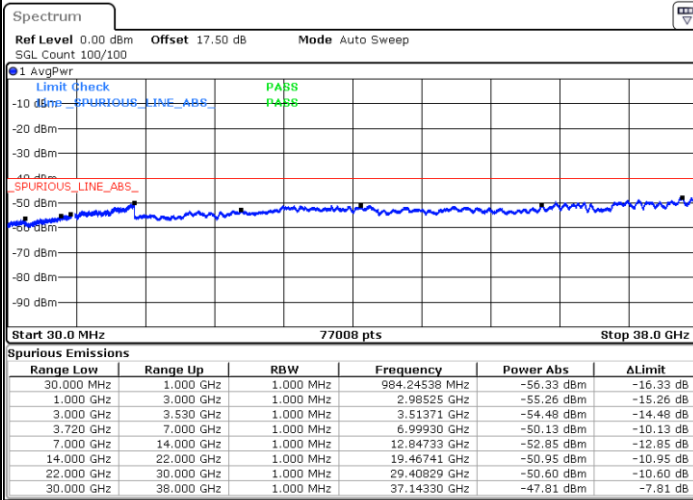


LTE Band 48C / 20MHz+20MHz

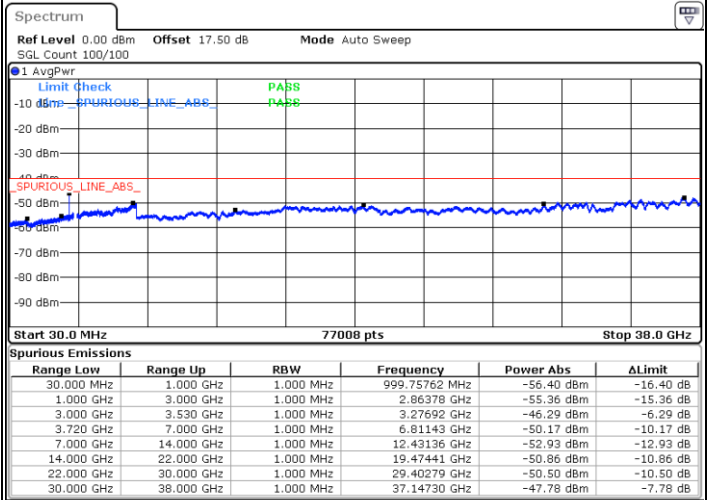
64QAM

MiddleChannel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0



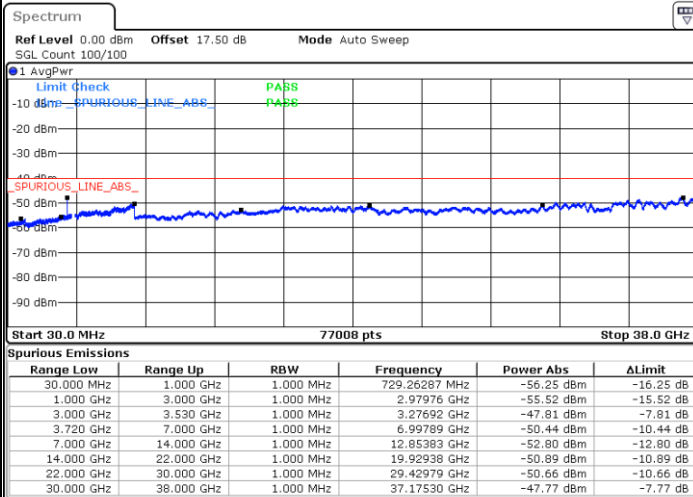
Date: 7.NOV.2019 16:14:57



Date: 7.NOV.2019 16:20:58

Middle Channel / FullIRB

N/A



Date: 7.NOV.2019 16:13:45

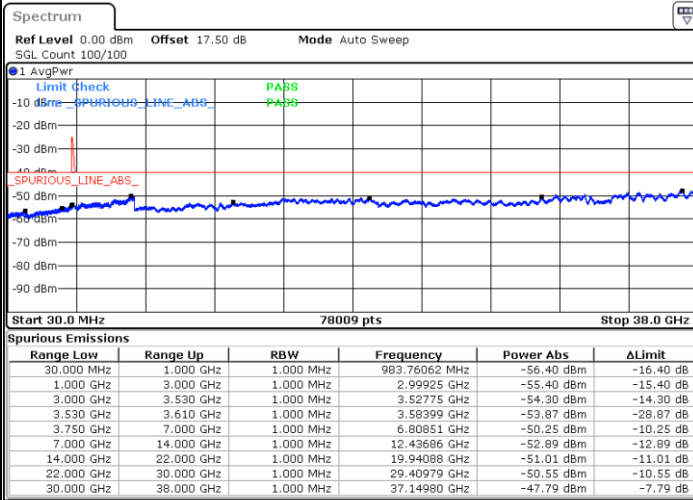


LTE Band 48C / 20MHz+20MHz

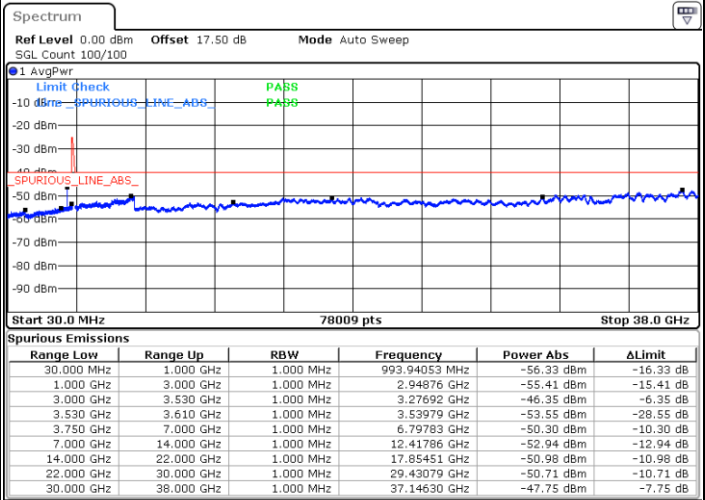
64QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0



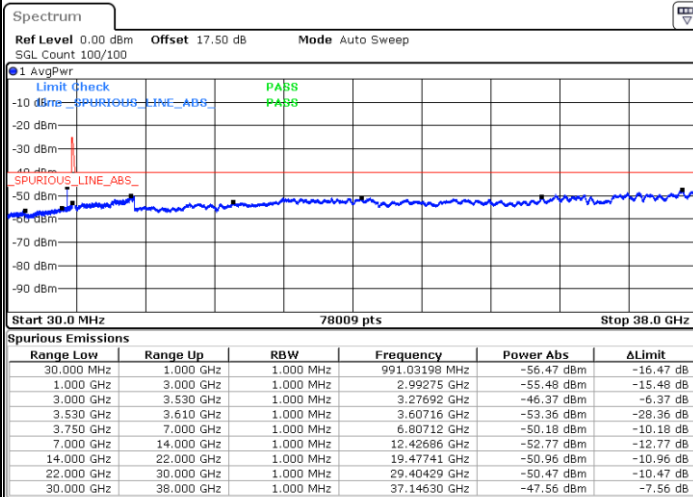
Date: 7.NOV.2019 17:11:15



Date: 7.NOV.2019 17:10:03

Highest Channel / FullIRB

N/A



Date: 7.NOV.2019 17:17:17



Appendix B. Test Results of Radiated Spurious Emission

LTE CA Band 48C

LTE Band 48 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (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	7140	-59.67	-40	-19.67	-63.95	-69.55	1.80	11.68	H
	10710	-59.13	-40	-19.13	-67.17	-67.53	2.50	10.90	H
	14272	-56.38	-40	-16.38	-68.52	-65.06	2.86	11.55	H
	21418	-47.67	-40	-7.67	-74.26	-64.42	1.95	18.70	H
	24981	-49.23	-40	-9.23	-75.27	-65.42	2.08	18.27	H
	28556	-50.37	-40	-10.37	-78.7	-67.59	2.31	19.53	H
	7140	-60.36	-40	-20.36	-64.29	-70.24	1.80	11.68	V
	10710	-59.51	-40	-19.51	-67.31	-67.91	2.50	10.90	V
	14272	-56.85	-40	-16.85	-68.57	-65.53	2.86	11.55	V
	21418	-54.50	-40	-14.50	-74	-71.25	1.95	18.70	V
	24981	-52.83	-40	-12.83	-75.32	-69.02	2.08	18.27	V
	28556	-52.40	-40	-12.40	-77.56	-69.62	2.31	19.53	V
Middle	7250	-59.56	-40	-19.56	-63.87	-69.21	1.86	11.50	H
	10875	-58.89	-40	-18.89	-67.17	-67.21	2.59	10.90	H
	14498	-57.87	-40	-17.87	-69.97	-66.02	2.85	11.00	H
	18122	-52.91	-40	-12.91	-72.12	-69.11	1.77	17.98	H
	21751	-49.21	-40	-9.21	-74.79	-66.00	2.01	18.80	H
	25367	-47.58	-40	-7.58	-75.93	-64.25	2.15	18.81	H
	7250	-59.74	-40	-19.74	-63.8	-69.39	1.86	11.50	V
	10875	-59.64	-40	-19.64	-67.72	-67.96	2.59	10.90	V
	14498	-58.56	-40	-18.56	-69.76	-66.71	2.85	11.00	V
	18122	-59.53	-40	-19.53	-72.35	-75.73	1.77	17.98	V
	21751	-55.79	-40	-15.79	-74.71	-72.58	2.01	18.80	V
	25367	-51.69	-40	-11.69	-76.29	-68.36	2.15	18.81	V
Highest	7360	-59.66	-40	-19.66	-63.75	-69.07	1.91	11.32	H
	11040	-58.62	-40	-18.62	-67.16	-66.93	2.63	10.95	H
	14718	-56.68	-40	-16.68	-69.96	-65.47	2.91	11.70	H
	18399	-51.67	-40	-11.67	-71.4	-67.72	1.87	17.92	H
	22073	-49.58	-40	-9.58	-74.33	-66.37	2.08	18.87	H
	25747	-46.56	-40	-6.56	-75.31	-63.57	2.04	19.05	H
	7360	-59.98	-40	-19.98	-63.88	-69.39	1.91	11.32	V
	11040	-58.81	-40	-18.81	-67.18	-67.12	2.63	10.95	V
	14718	-58.51	-40	-18.51	-70.15	-67.30	2.91	11.70	V
	18399	-59.38	-40	-19.38	-71.72	-75.43	1.87	17.92	V
	22073	-56.23	-40	-16.23	-74.72	-73.02	2.08	18.87	V
	25747	-50.39	-40	-10.39	-75.54	-67.40	2.04	19.05	V

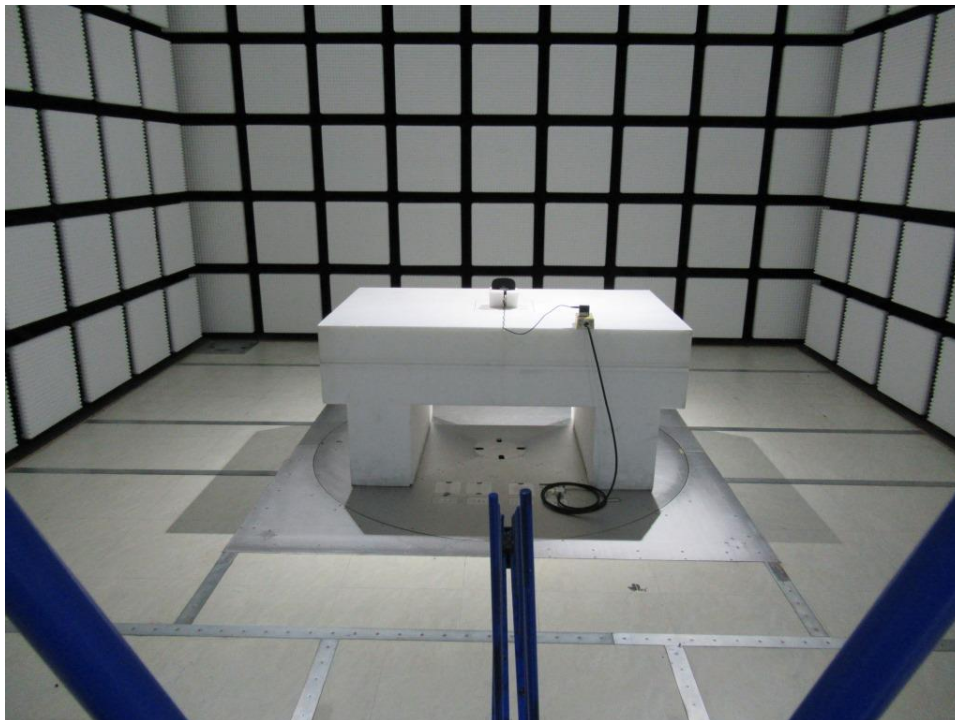
Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Appendix C. Setup Photographs

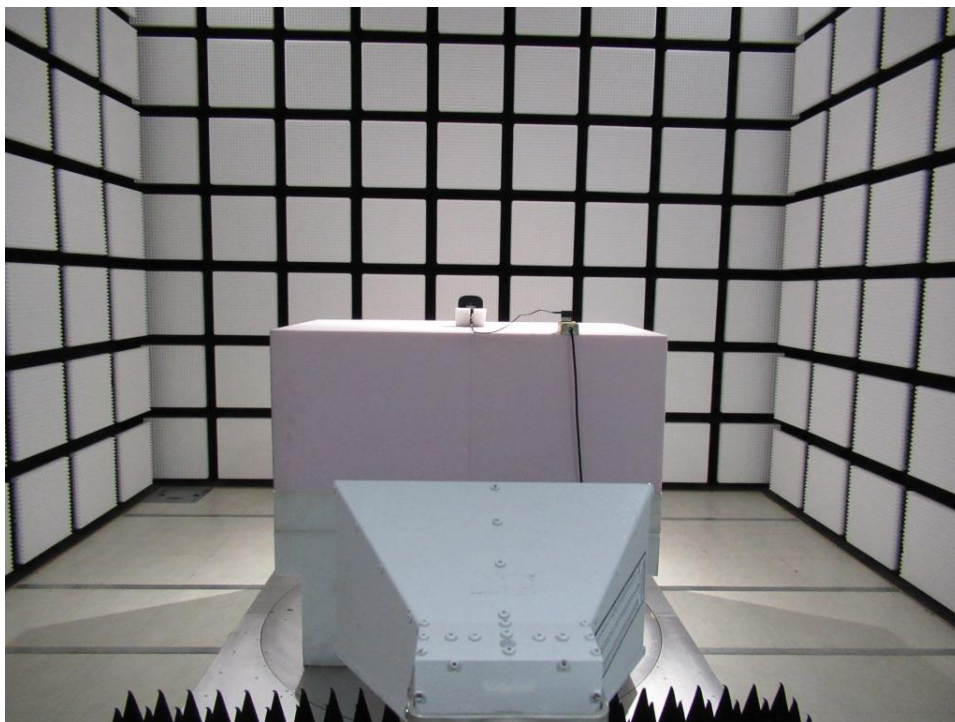
<Radiated Emission>

Y Plane

LF



HF



SHF



————THE END————