FCC RF Test Report

APPLICANT	:	**OnePlus Technology (shenzhen) Co., Ltd.**
EQUIPMENT	:	**Smart Phone**
BRAND NAME	:	**ONEPLUS**
MODEL NAME	:	**ONEPLUS A6013**
FCC ID	:	**2ABZ2-A6013**
STANDARD	:	**FCC 47 CFR Part 2, 27(D)**
CLASSIFICATION	:	**PCS Licensed Transmitter Held to Ear (PCE)**

The product was received on Jul. 10, 2018 and completely tested on Jul. 27, 2018. We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI/TIA-603-E and shown compliance with the applicable technical standards.

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

Eric Shih

Approved by: Eric Shih / Manager

NVLAP®
TESTING
NVLAP LAB CODE 600156-0

Sporton International (Shenzhen) Inc.
1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City
Guangdong Province 518055 China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG871004-01C	Rev. 01	Initial issue of report	Sep. 05, 2018

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.5	-	Peak-to-Average Ratio	<13dB	N/A	Reporting only
3.6	§27.50 (a)(3)	EIRP Power Density	EIRP < 250mW/5MHz	PASS	-
3.7	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.8	§2.1051 §27.53 (a)(4)	Conducted Band Edge Measurement	Refer standard	PASS	-
3.9	§2.1051 §27.53 (a)(4)	Conducted Spurious Emission	< $70+10\log_{10}$(P[Watts])	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission	< $70+10\log_{10}$(P[Watts])	PASS	Under limit 9.34 dB at 6916.500 MHz

1 General Description

1.1 Applicant

OnePlus Technology (shenzhen) Co., Ltd.
18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

1.2 Manufacturer

OnePlus Technology (shenzhen) Co., Ltd.
18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Phone
Brand Name	ONEPLUS
Model Name	ONEPLUS A6013
FCC ID	2ABZ2-A6013
EUT supports Radios application	CDMA/EV-DO/GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/ HSPA+/LTE/NFC WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ac VHT20/VHT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
IMEI Code	Conducted: 865208040071451 Radiation: 865208040070164
HW Version	34
SW Version	ONEPLUS A6013_34_180810
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx Frequency	LTE Band 30 : 2307.5 MHz ~ 2312.5 MHz
Rx Frequency	LTE Band 30 : 2352.5 MHz ~ 2357.5 MHz
Bandwidth	5MHz / 10MHz
Maximum Output Power to Antenna	LTE Band 30 : 23.26 dBm
Antenna Type	PIFA Antenna
Antenna Gain	-1.00dBi
Type of Modulation	QPSK / 16QAM / 64QAM

1.5 Modification of EUT

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

1.6 Maximum Frequency Tolerance and Emission Designator and Conducted Power

LTE Band 30		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power(W)
5	2307.5 ~ 2312.5	4M49G7D	-	0.2089	4M50W7D	-	0.1770
10	2310.0	9M03G7D	0.0009	0.2118	9M03W7D	-	0.1774

LTE Band 30		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power(W)
5	2307.5 ~ 2312.5	4M51W7D	-	0.1390
10	2310.0	9M05W7D	-	0.1384

1.7 Testing Site

Sporton International (Shenzhen) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0) and the FCC designation No. are CN5018 and CN5019.

Test Site	Sporton International (Shenzhen) Inc.	
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City Guangdong Province 518055 China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595	
Test Site No.	**Sporton Site No.**	**FCC Test Firm Registration No.**
	TH01-SZ	337463

Test Site	Sporton International (Shenzhen) Inc.	
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan District Shenzhen City Guangdong Province 518055 China TEL: +86-755-3320-2398	
Test Site No.	**Sporton Site No.**	**FCC Test Firm Registration No.**
	03CH04-SZ	577730

1.8 Applied Standards

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

- 47 CFR Part 2, Part 27(D)
- ANSI / TIA-603-E
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01

Remark:

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

2 Test Configuration of Equipment Under Test

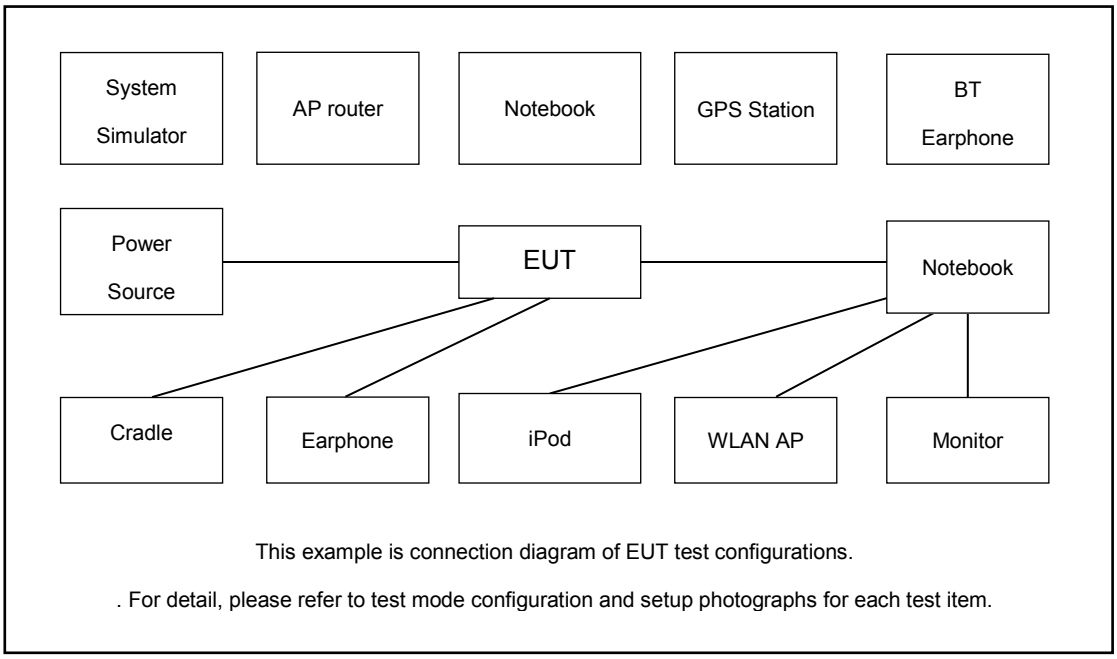
2.1 Test Mode

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

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

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	30	-	-	V		-	-	V	V	V	V	V	V	V	V	V
		-	-		V	-	-	V	V	V	V	V	V		V	
Peak-to-Average Ratio	30	-	-		V	-	-	V	V	V	V		V		V	
E.I.R.P PSD	30	-	-	V		-	-	V	V	V	V			V	V	V
		-	-		V	-	-	V	V	V	V				V	
26dB and 99% Bandwidth	30	-	-	V		-	-	V	V	V			V	V	V	V
		-	-		V	-	-	V	V	V			V		V	
Conducted Band Edge	30	-	-	V		-	-	V	V	V	V		V	V		V
		-	-		V	-	-	V	V	V	V		V		V	
Conducted Spurious Emission	30	-	-	V		-	-	V	V	V	V			V	V	V
		-	-		V	-	-	V	V	V	V				V	
Frequency Stability	30	-	-		V	-	-	V					V		V	
Radiated Spurious Emission	30	-	-	V		-	-	V			V			V	V	V
					V			V			V				V	
Note	1. The mark “v “ means that this configuration is chosen for testing 2. The mark “-“ means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.															

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	DC Power Supply	GW INSTEK	GPS-3030D	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 RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
Offset = RF cable loss + attenuator factor.
The following shows an offset computation example with RF cable loss 5.0 dB and a 10dB attenuator.

Example :
Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
= 5.0 + 10 = 15.0 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 30 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
10	Channel	-	27710	-
	Frequency	-	2310	-
5	Channel	27685	27710	27735
	Frequency	2307.5	2310	2312.5

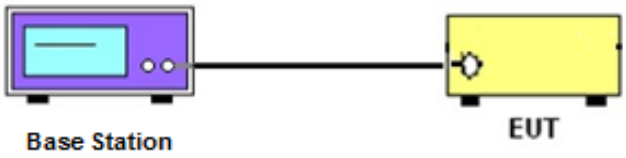
3 Conducted Test Items

3.1 Measuring Instruments

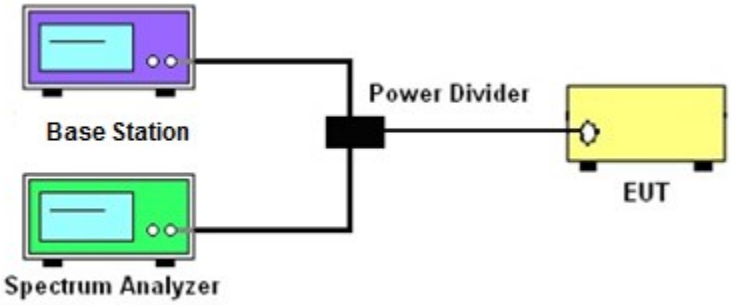
See list of measuring instruments of this test report.

3.2 Test Setup

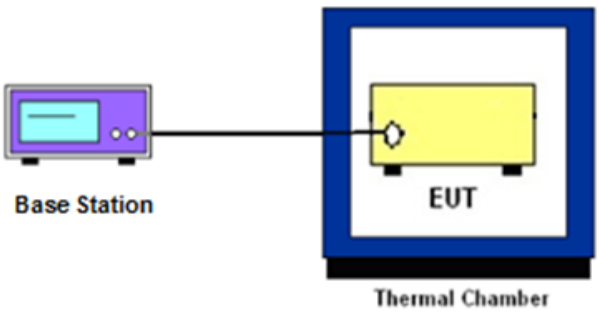
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth ,Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power Measurement

3.4.1 Description of the Conducted Output Power Measurement

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

3.4.2 Test Procedures

1. The 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.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

1. The testing follows FCC KDB 971168 v03r01 Section 5.7.1.
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 EIRP Power Density

3.6.1 Description of EIRP Power Density

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, *except that* for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

3.6.2 Test Procedures

1. Set instrument center frequency to OBW center frequency.
2. Set span to at least 1.5 times the OBW.
3. Set the RBW to the specified reference bandwidth (often 1 MHz).
4. Set VBW ≥ 3 × RBW.
5. Detector = RMS (power averaging).
6. Ensure that the number of measurement points in the sweep ≥ 2 × span/RBW.
7. Sweep time = auto couple.
8. Employ trace averaging (RMS) mode over a minimum of 100 traces.
9. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).

3.7 Occupied Bandwidth

3.7.1 Description of Occupied Bandwidth Measurement

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

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

3.7.2 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF powers with full RB sizes were measured.

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

27.53 (a)(4)

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

3.8.2 Test Procedures

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The band edges of low and high channels were measured with RBW ≥ 1% EBW set in Spectrum Analyzer, while the EUT was transmitting under maximum power.
3. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
4. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB) = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.

3.9 Conducted Spurious Emission Measurement

3.9.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 70 + 10 log (P) dB.

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

3.9.2 Test Procedures

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, taking the record of maximum spurious emission.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from 70 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [70 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [70 + 10log(P)] (dB)
   = -40dBm.

3.10 Frequency Stability Measurement

3.10.1 Description of Frequency Stability Measurement

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

3.10.2 Test Procedures for Temperature Variation

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.

3.10.3 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at 25±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.

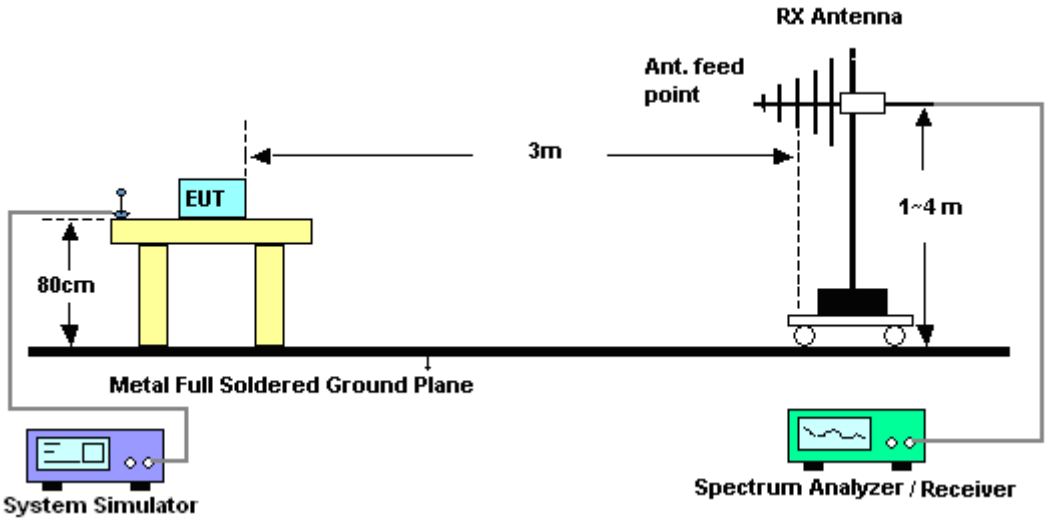
4 Radiated Test Items

4.1 Measuring Instruments

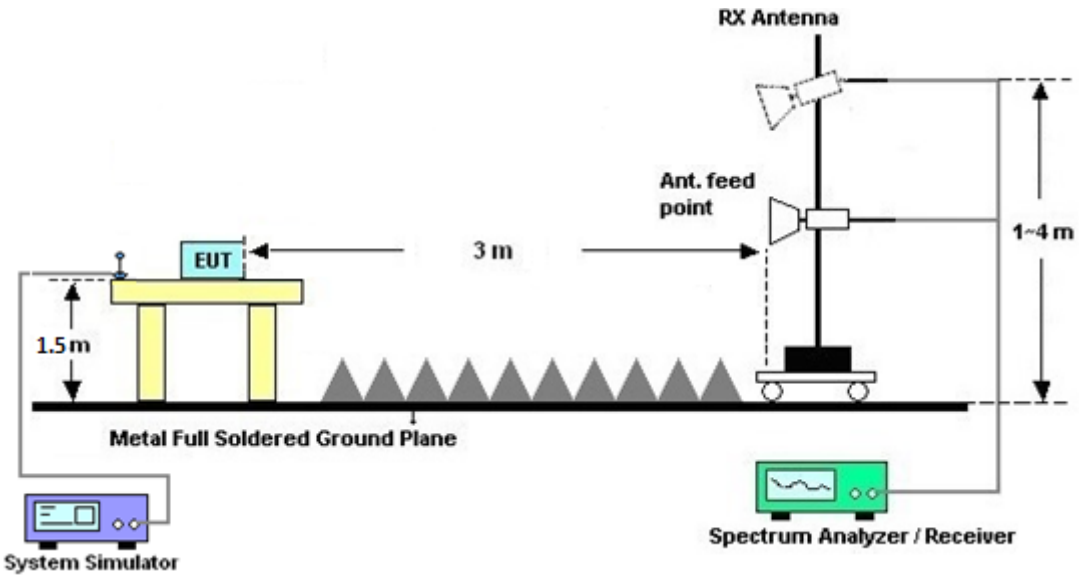
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 70 + 10 log (P) dB.

4.4.2 Test Procedures

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.
    The limit line is derived from 70 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [70 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [70 + 10log(P)] (dB)
    = -40dBm.
11. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	9kHz~40GHz	Apr. 19, 2018	Jul. 26, 2018~ Jul. 27, 2018	Apr. 18, 2019	Conducted (TH01-SZ)
Radio Communication Analyzer	Anritsu	MT8820C	6201563777	2G/3G/4G (CDMA)	Jan. 03, 2018	Jul. 26, 2018~ Jul. 27, 2018	Jan. 02, 2019	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Dec. 26, 2017	Jul. 26, 2018~ Jul. 27, 2018	Dec. 25, 2018	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Apr. 19, 2018	Jul. 25, 2018	Apr. 18, 2019	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Aug. 29, 2017	Jul. 25, 2018	Aug. 28, 2018	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120	9120D-1285	1GHz~18GHz	Dec. 13, 2017	Jul. 25, 2018	Dec. 12, 2018	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Apr. 20, 2018	Jul. 25, 2018	Apr. 19, 2019	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 19, 2017	Jul. 25, 2018	Oct. 18, 2018	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-	1989346	1GHz~18GHz	Jul. 30, 2017	Jul. 25, 2018	Jul. 29, 2018	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY53270156	500MHz~26.5GHz	Apr. 19, 2018	Jul. 25, 2018	Apr. 18, 2019	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1988315	18GHz~40GHz	Jul. 30, 2017	Jul. 25, 2018	Jul. 29, 2018	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	Jul. 25, 2018	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jul. 25, 2018	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jul. 25, 2018	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required

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))	2.8dB

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

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

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

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

Appendix A. Test Results of Conducted Test

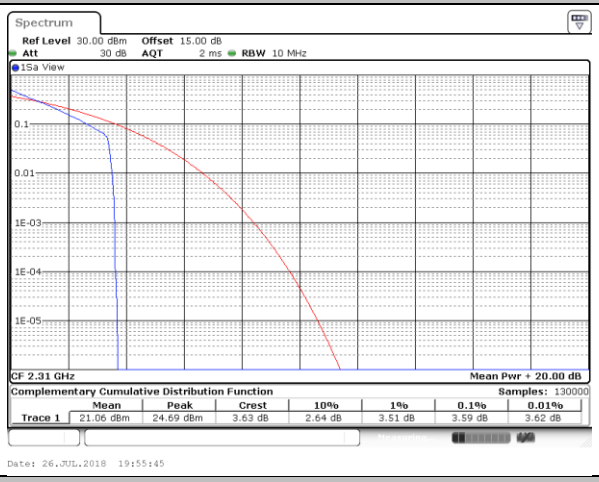
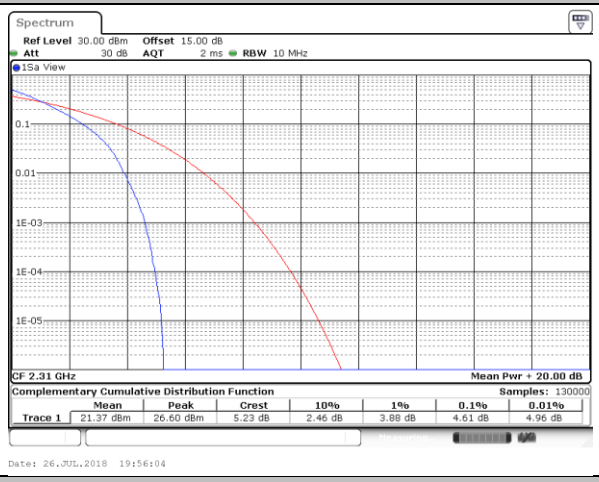
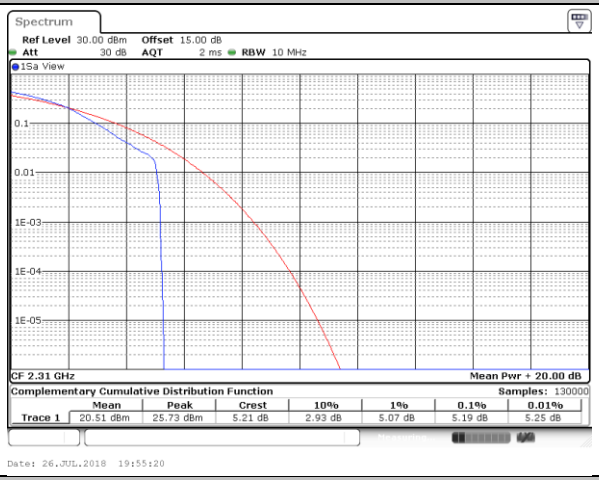
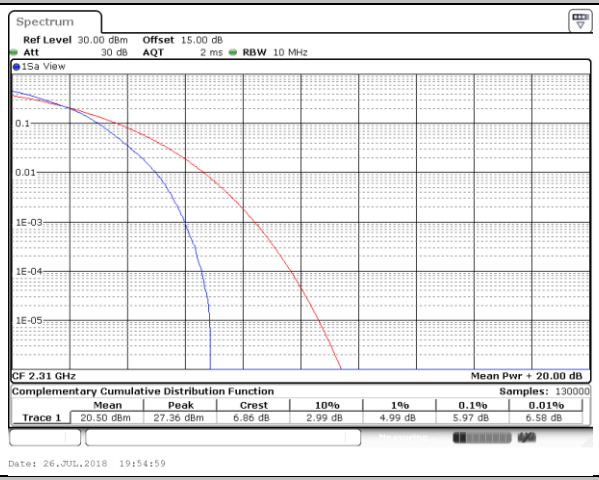
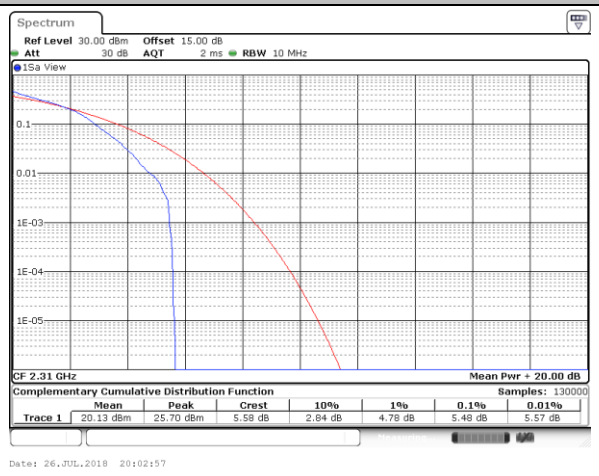
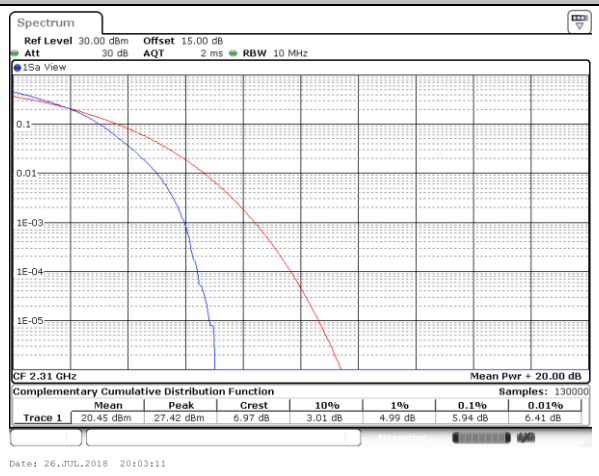
Conducted Output Power(Average power)

LTE Band 30 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.09	23.17	23.20
5	1	12		23.08	23.12	23.05
5	1	24		23.07	23.07	23.00
5	12	0		22.09	22.18	22.20
5	12	7		22.14	22.20	22.11
5	12	13		22.11	22.18	22.12
5	25	0		22.10	22.17	22.09
5	1	0	16-QAM	22.43	22.48	22.43
5	1	12		22.39	22.45	22.35
5	1	24		22.43	22.30	22.29
5	12	0		21.19	21.27	21.27
5	12	7		21.24	21.30	21.21
5	12	13		21.18	21.26	21.17
5	25	0		21.21	21.25	21.18
5	1	0	64QAM	21.33	21.42	21.43
5	1	12		21.31	21.34	21.25
5	1	24		21.31	21.26	21.19
5	12	0		20.24	20.27	20.33
5	12	7		20.28	20.32	20.23
5	12	13		20.23	20.27	20.20
5	25	0		20.18	20.26	20.18

10	1	0	QPSK	-	23.26	-
10	1	25			23.10	
10	1	49			22.97	
10	25	0			22.19	
10	25	12			22.17	
10	25	25			22.09	
10	50	0			22.17	
10	1	0	16-QAM		22.41	
10	1	25			22.49	
10	1	49			22.24	
10	25	0			21.29	
10	25	12			21.25	
10	25	25			21.15	
10	50	0			21.28	
10	1	0	64QAM		21.41	
10	1	25			21.37	
10	1	49			21.18	
10	25	0			20.30	
10	25	12			20.31	
10	25	25			20.16	
10	50	0			20.25	

Peak-to-Average Ratio

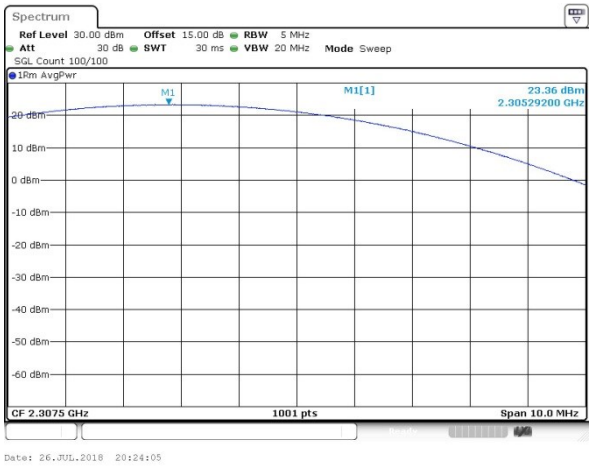
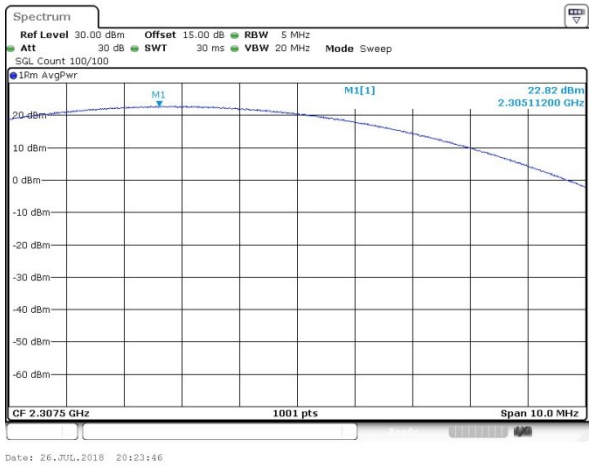
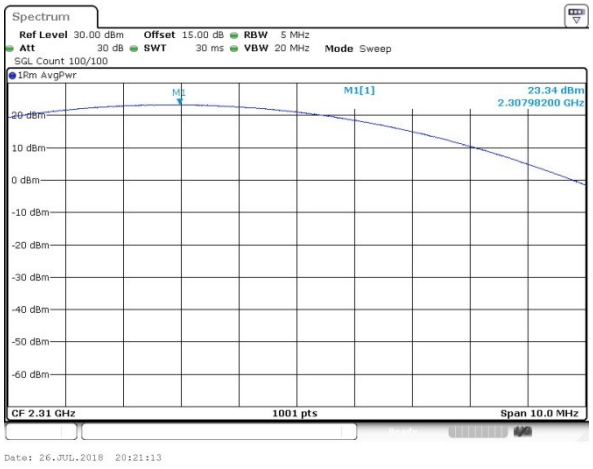
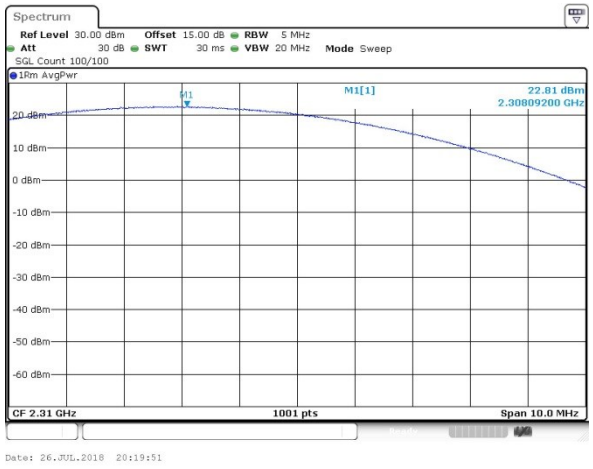
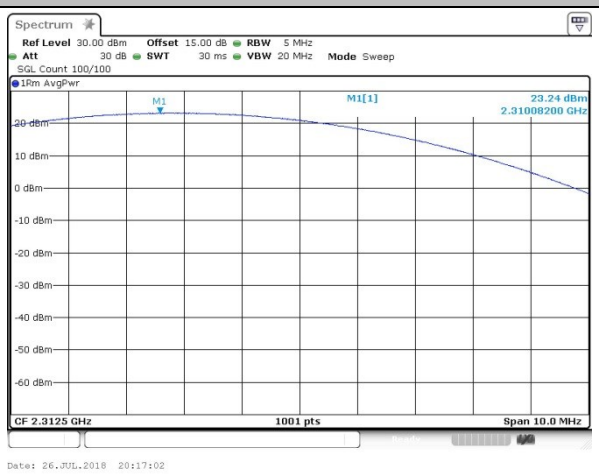
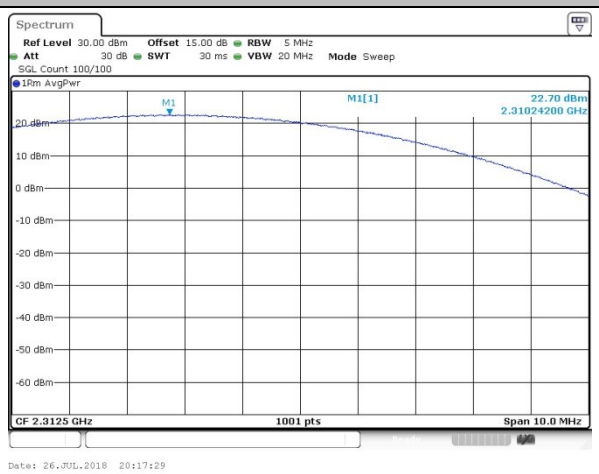
Mode	LTE Band 30 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.59	4.61	5.19	5.97	
Highest CH	-	-	-	-	
Mode	LTE Band 30 / 20MHz				
Mod.	64QAM		-		Limit: 13dB
RB Size	1RB	Full RB	-	-	Result
Lowest CH	-	-	-	-	PASS
Middle CH	5.48	5.94	-	-	
Highest CH	-	-	-	-	

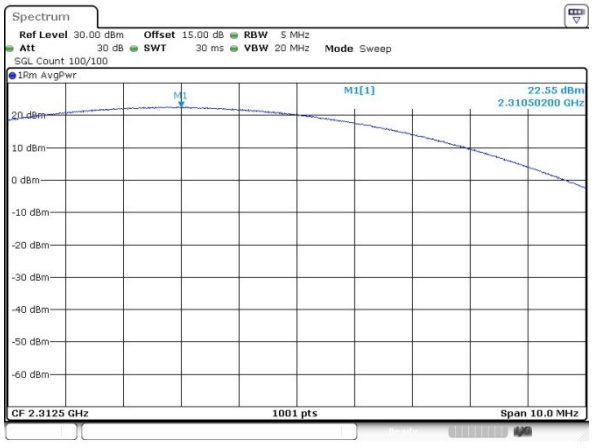
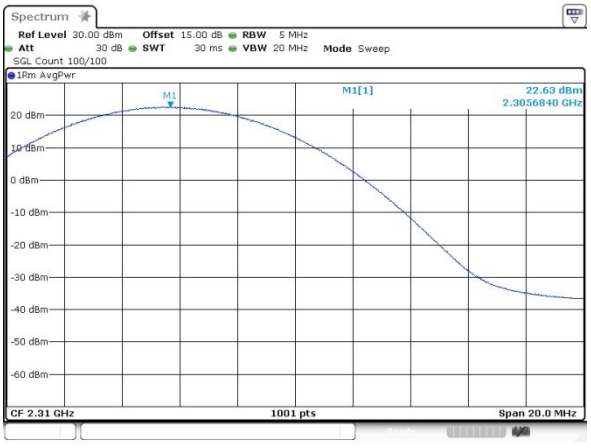
LTE Band 30 / 10MHz / QPSK	
Middle Channel / 1RB	Middle Channel / Full RB
	
LTE Band 30 / 10MHz / 16QAM	
Middle Channel / 1RB	Middle Channel / Full RB
	
LTE Band 30 / 10MHz / 64QAM	
Middle Channel / 1RB	Middle Channel / Full RB
	

EIRP Power Density

Mode	LTE Band 30 : Conducted Power Density (dBm/5MHz)											
BW	5MHz			10MHz								
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM						
Lowest CH	23.36	22.82	22.72									
Middle CH	23.34	22.81	22.66	23.37	22.78	22.63						
Highest CH	23.24	22.7	22.55									

Mode	LTE Band 30 : EIRP Power Density (dBm/5MHz)											
BW	5MHz			10MHz								
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM						
Lowest CH	22.36	21.82	21.72									
Middle CH	22.34	21.81	21.66	22.37	21.78	21.63						
Highest CH	22.24	21.7	21.55									
Antenna Gain	-1.00 dBi											
Limit	250mW / 5MHz = 24dBm / 5MHz											
Result	Pass											

LTE Band 30 / 5MHz	
Lowest Channel / 5MHz / 1RB0 / QPSK	**Lowest Channel / 5MHz / 1RB0 / 16QAM**
	
Middle Channel / 5MHz / 1RB0 / QPSK	**Middle Channel / 5MHz / 1RB0 / 16QAM**
	
Highest Channel / 5MHz / 1RB0 / QPSK	**Highest Channel / 5MHz / 1RB0 / 16QAM**
	

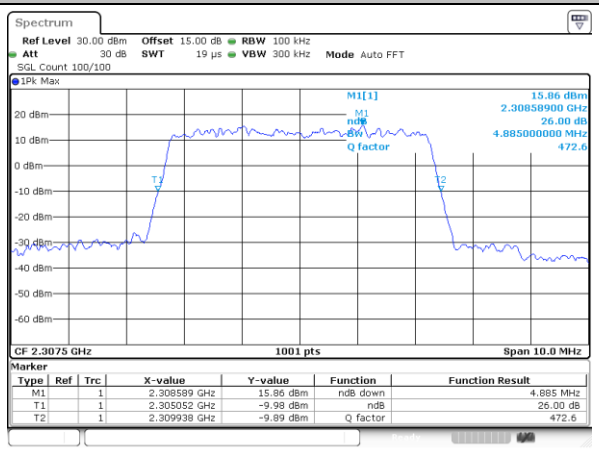
LTE Band 30 / 10MHz	
Middle Channel / 10MHz / 1RB0 / QPSK	**Middle Channel / 10MHz / 1RB25 / 16QAM**
	
LTE Band 30 / 5MHz	
Lowest Channel / 5MHz / 1RB0 / 64QAM	**Middle Channel / 5MHz / 1RB0 / 64QAM**
	
Highest Channel / 5MHz / 1RB0 / 64QAM	**Middle Channel / 10MHz / 1RB0 / 64QAM**
	

26dB Bandwidth

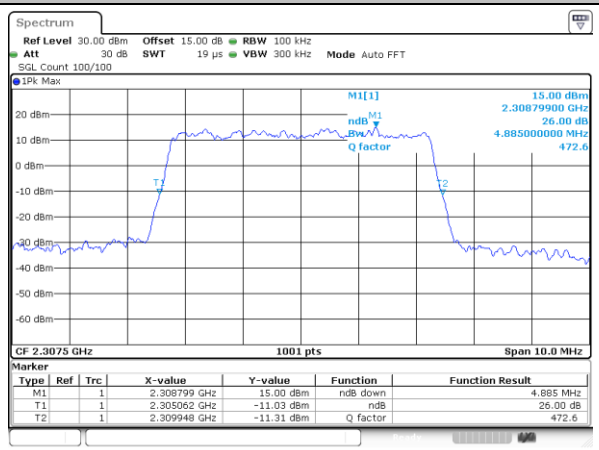
Mode	LTE Band 30 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.885	4.885	-	-	-	-	-	-
Middle CH	-	-	-	-	4.915	4.905	9.83	9.71	-	-	-	-
Highest CH	-	-	-	-	4.915	4.825	-	-	-	-	-	-
Mode	LTE Band 30 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.875	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.795	-	9.77	-	-	-	-	-
Highest CH	-	-	-	-	4.875	-	-	-	-	-	-	-

LTE Band 30

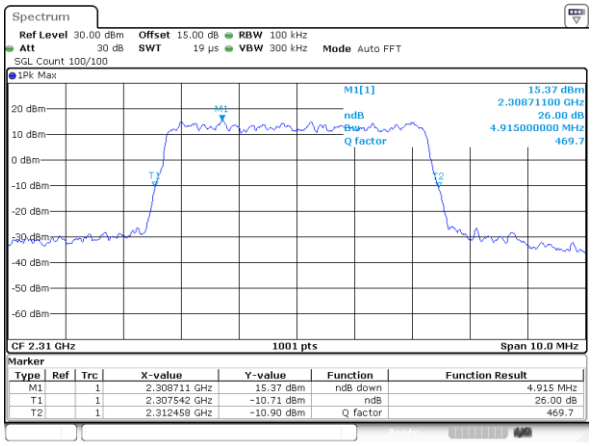
Lowest Channel / 5MHz / QPSK



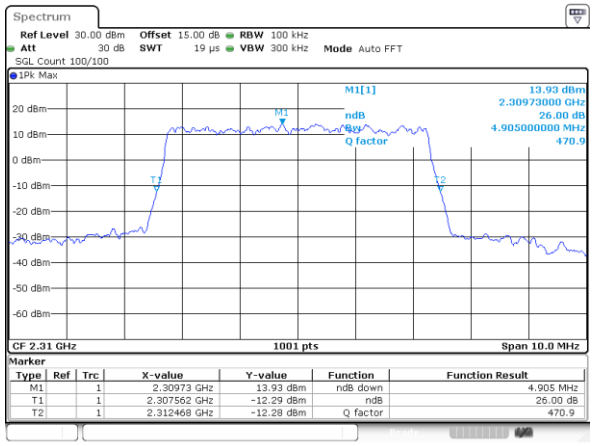
Lowest Channel / 5MHz / 16QAM



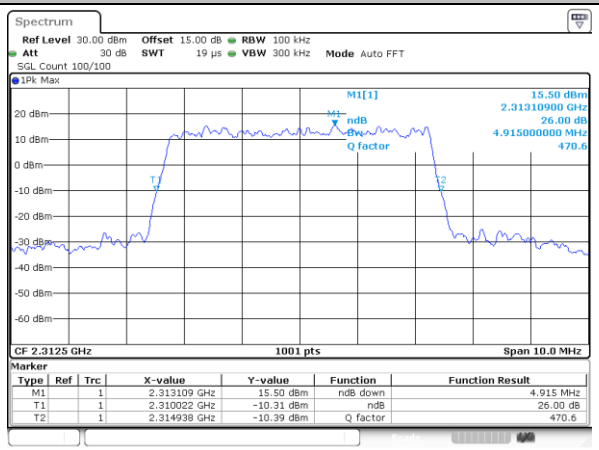
Middle Channel / 5MHz / QPSK



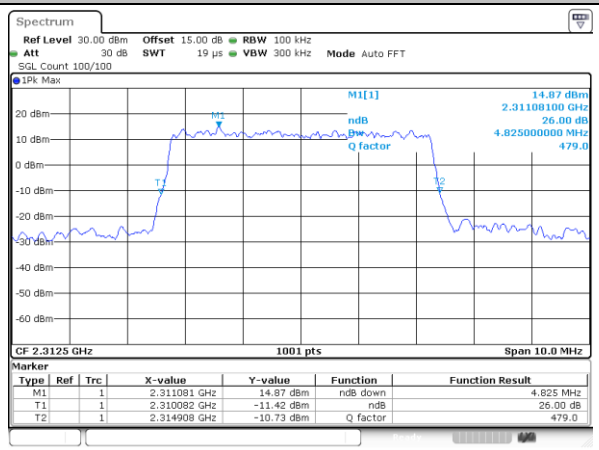
Middle Channel / 5MHz / 16QAM



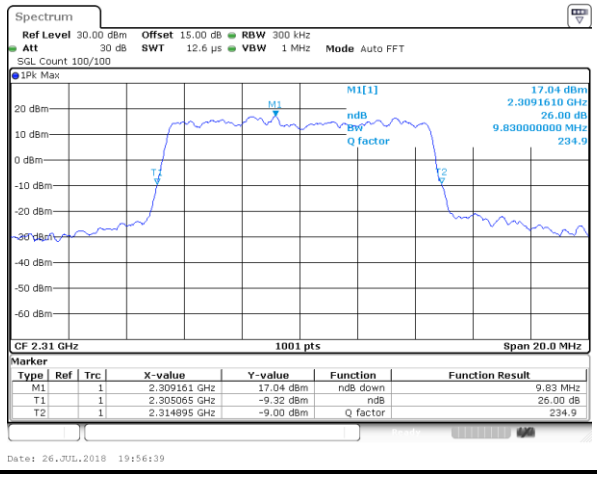
Highest Channel / 5MHz / QPSK

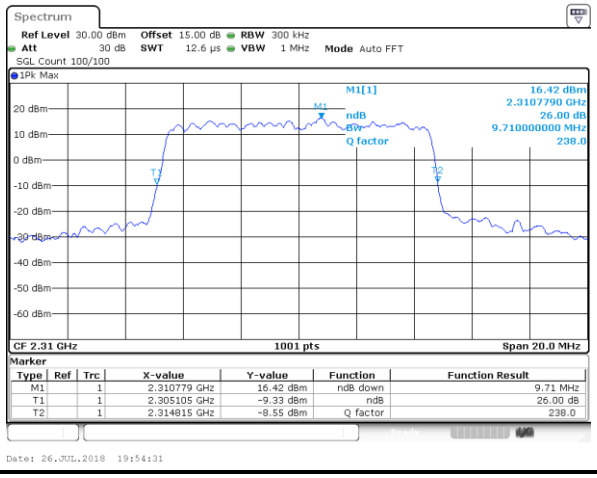


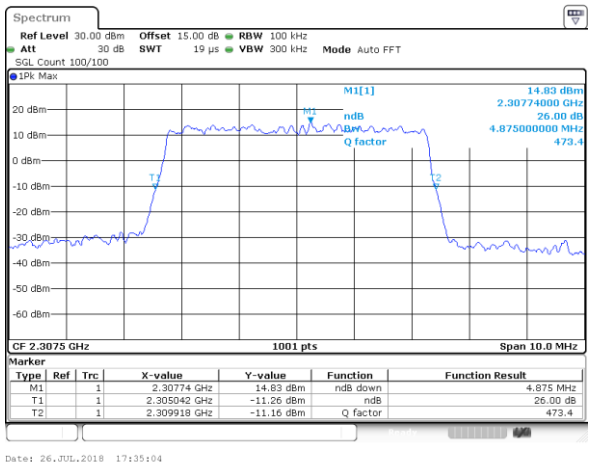
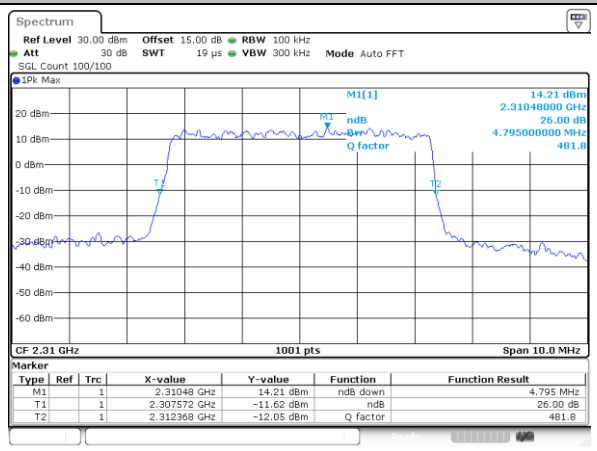
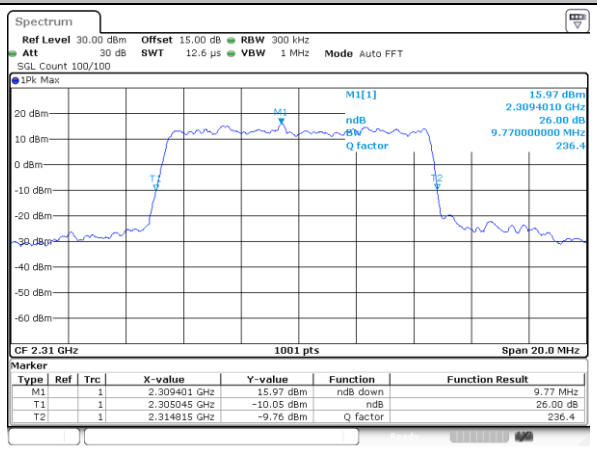
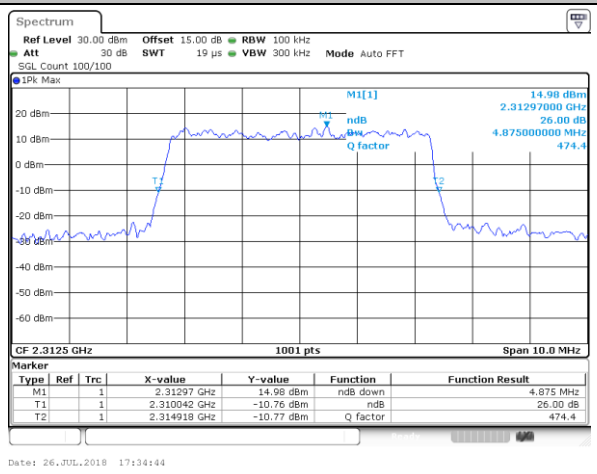
Highest Channel / 5MHz / 16QAM



LTE Band 30	
Middle Channel / 10MHz / QPSK	Middle Channel / 10MHz / 16QAM





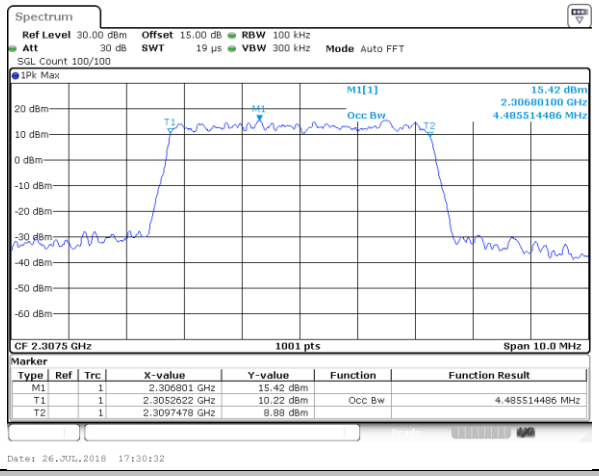
LTE Band 30	
Lowest Channel / 5MHz / 64QAM	
	
Middle Channel / 5MHz / 64QAM	**Middle Channel / 10MHz / 64QAM**
	
Highest Channel / 5MHz / 64QAM	
	

Occupied Bandwidth

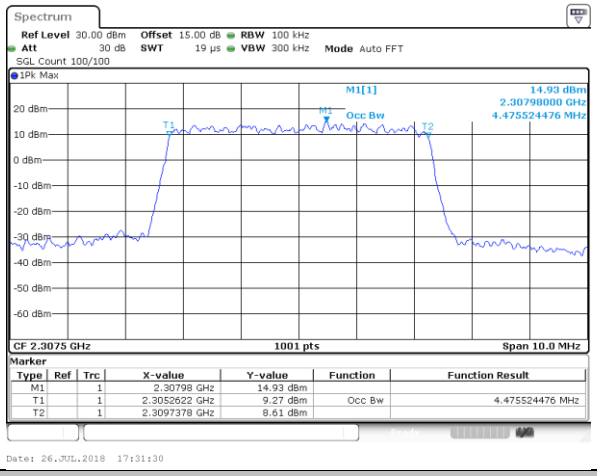
Mode	LTE Band 30 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.48	-	-	-	-	-	-
Middle CH	-	-	-	-	4.49	4.5	9.03	9.03	-	-	-	-
Highest CH	-	-	-	-	4.48	4.5	-	-	-	-	-	-
Mode	LTE Band 30 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.47	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.5	-	9.05	-	-	-	-	-
Highest CH	-	-	-	-	4.51	-	-	-	-	-	-	-

LTE Band 30

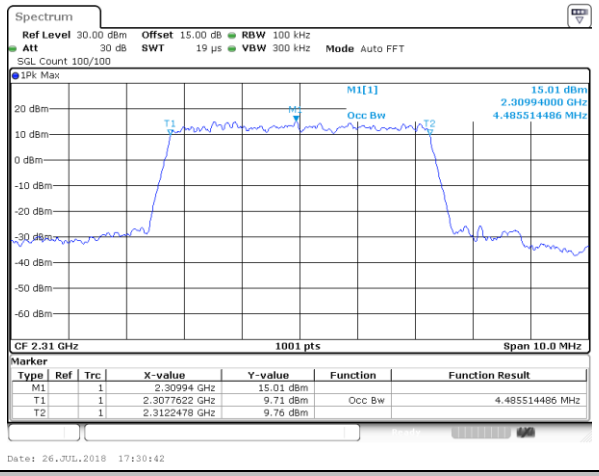
Lowest Channel / 5MHz / QPSK



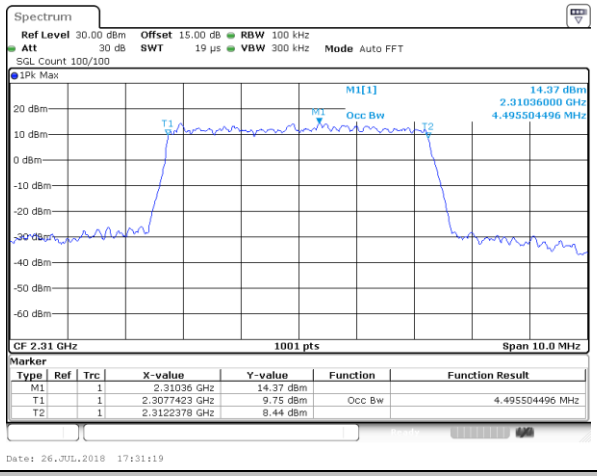
Lowest Channel / 5MHz / 16QAM



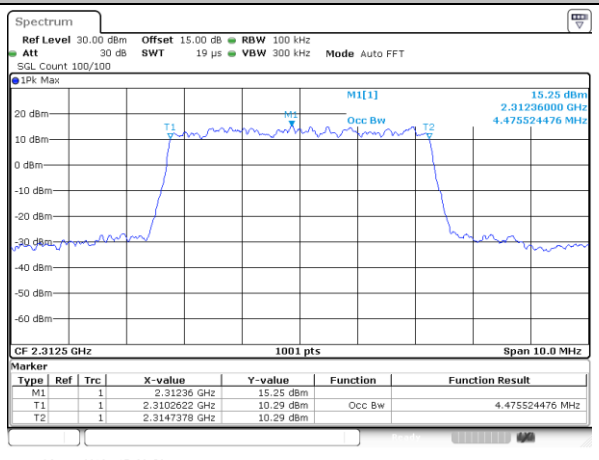
Middle Channel / 5MHz / QPSK



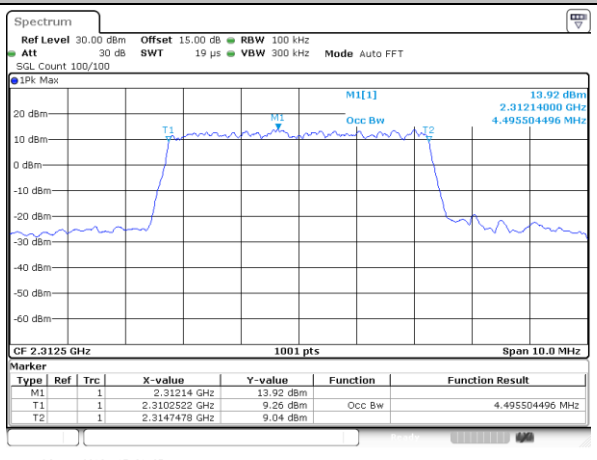
Middle Channel / 5MHz / 16QAM



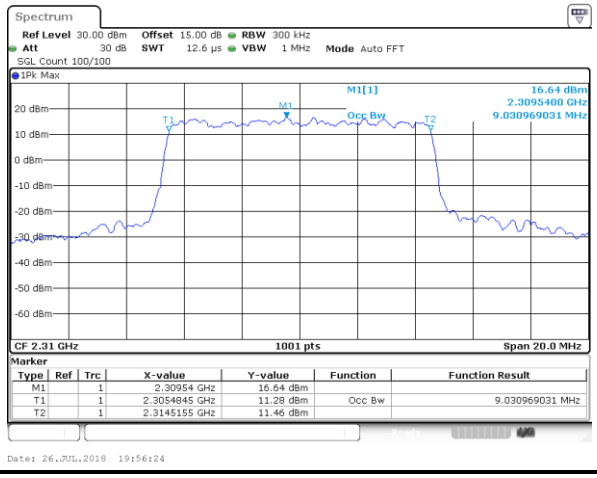
Highest Channel / 5MHz / QPSK

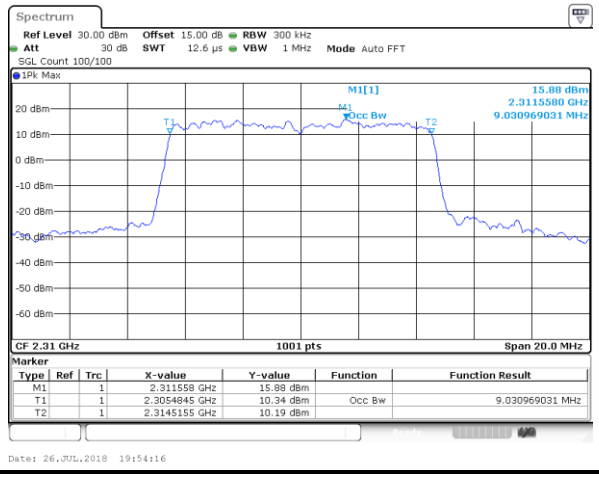


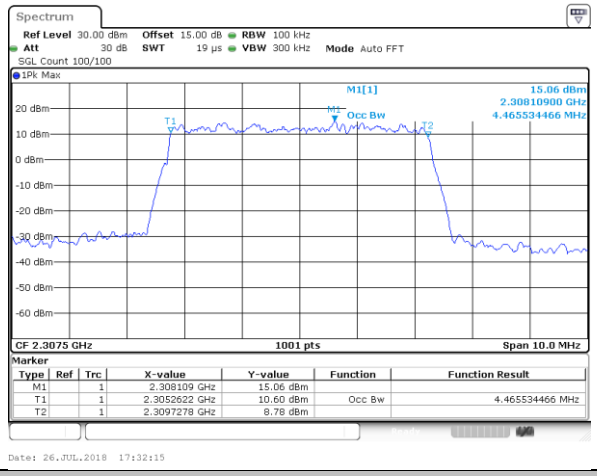
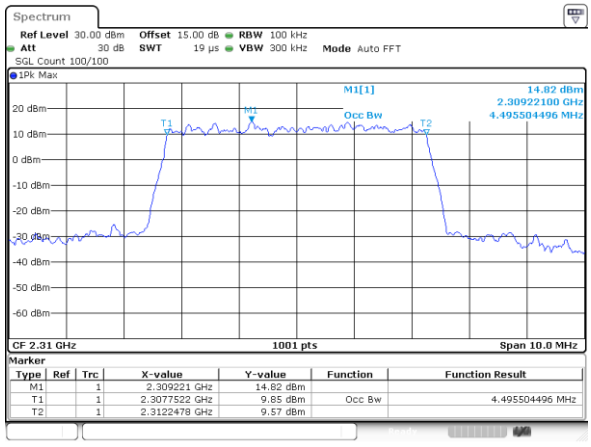
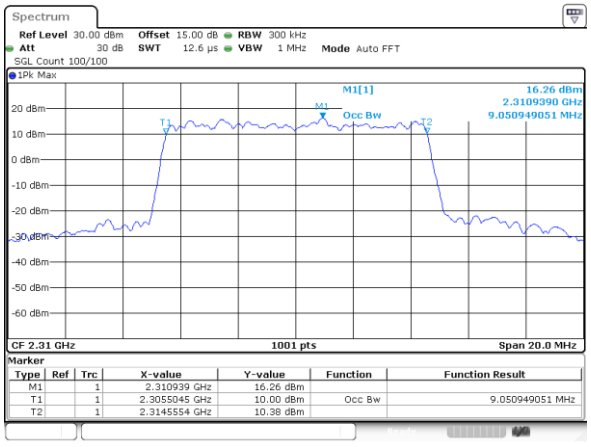
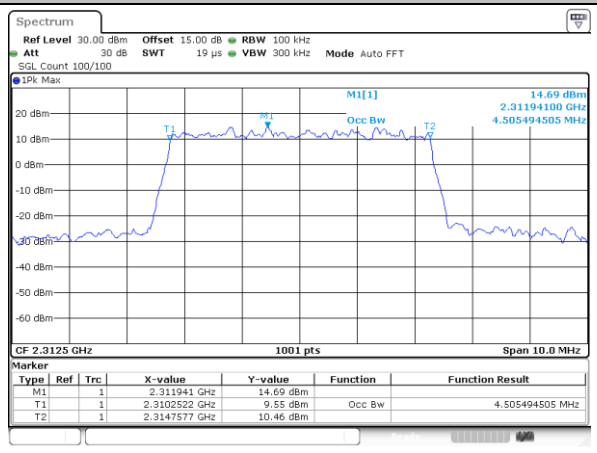
Highest Channel / 5MHz / 16QAM



LTE Band 30	
Middle Channel / 10MHz / QPSK	Middle Channel / 10MHz / 16QAM



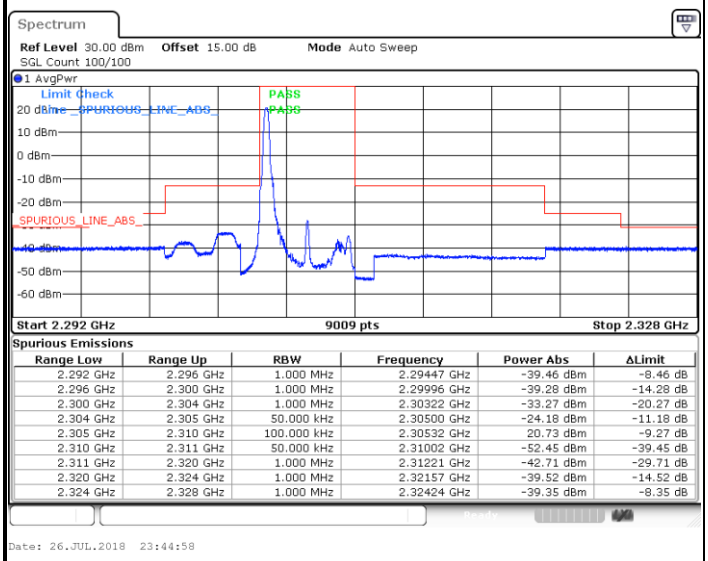


LTE Band 30	
Lowest Channel / 5MHz / 64QAM	
	
Middle Channel / 5MHz / 64QAM	**Middle Channel / 10MHz / 64QAM**
	
Highest Channel / 5MHz / 64QAM	
	

Conducted Band Edge

LTE Band 30 / 5MHz / QPSK

Lowest Band Edge / 1 RB

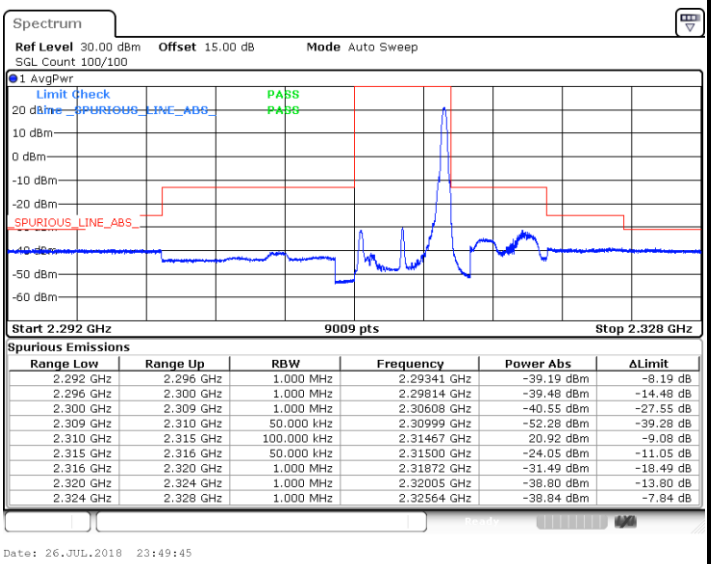


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29447 GHz	-39.46 dBm	-8.46 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29996 GHz	-39.28 dBm	-14.28 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30322 GHz	-33.27 dBm	-20.27 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-24.18 dBm	-11.18 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30532 GHz	20.73 dBm	-9.27 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31002 GHz	-52.45 dBm	-39.45 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31221 GHz	-42.71 dBm	-29.71 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32157 GHz	-39.52 dBm	-14.52 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32424 GHz	-39.35 dBm	-8.35 dB

Date: 26.JUL.2018 23:44:58

Highest Band Edge / 1 RB

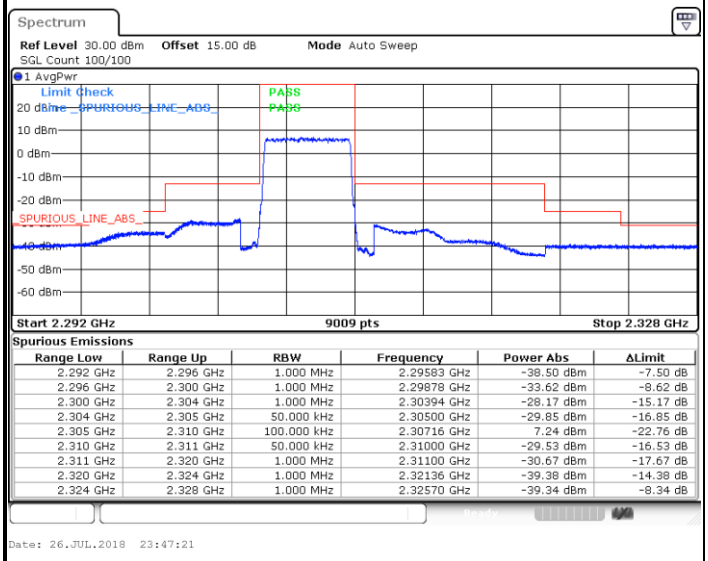


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29341 GHz	-39.19 dBm	-8.19 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29814 GHz	-39.48 dBm	-14.48 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30608 GHz	-40.55 dBm	-27.55 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30999 GHz	-52.28 dBm	-39.28 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31467 GHz	20.92 dBm	-9.08 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-24.05 dBm	-11.05 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31872 GHz	-31.49 dBm	-18.49 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32005 GHz	-38.80 dBm	-13.80 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32564 GHz	-38.84 dBm	-7.84 dB

Date: 26.JUL.2018 23:49:45

Lowest Band Edge / Full RB

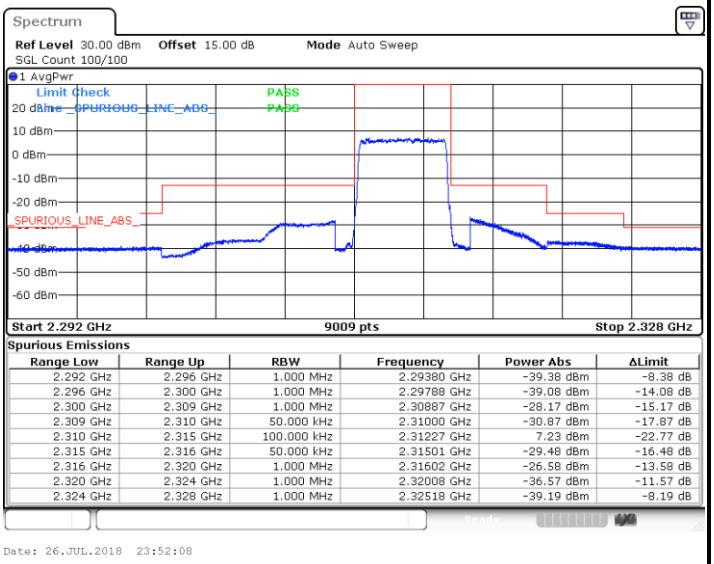


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29583 GHz	-38.50 dBm	-7.50 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29878 GHz	-33.62 dBm	-8.62 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30394 GHz	-28.17 dBm	-15.17 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-29.85 dBm	-16.85 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30716 GHz	7.24 dBm	-22.76 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31000 GHz	-29.53 dBm	-16.53 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31100 GHz	-30.67 dBm	-17.67 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32136 GHz	-39.38 dBm	-14.38 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32570 GHz	-39.34 dBm	-8.34 dB

Date: 26.JUL.2018 23:47:21

Highest Band Edge / Full RB



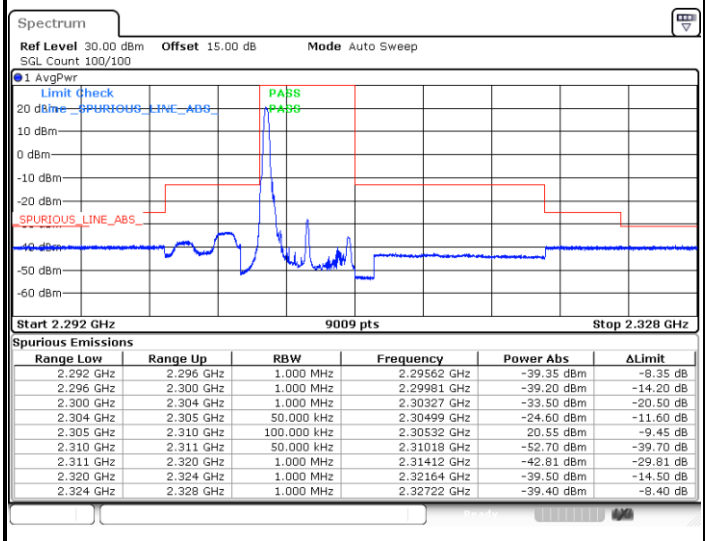
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29380 GHz	-39.38 dBm	-8.38 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29788 GHz	-39.08 dBm	-14.08 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30887 GHz	-28.17 dBm	-15.17 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.31000 GHz	-30.87 dBm	-17.87 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31227 GHz	7.23 dBm	-22.77 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31501 GHz	-29.48 dBm	-16.48 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31602 GHz	-26.58 dBm	-13.58 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32008 GHz	-36.57 dBm	-11.57 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32518 GHz	-39.19 dBm	-8.19 dB

Date: 26.JUL.2018 23:52:08

LTE Band 30 / 5MHz / 16QAM

Lowest Band Edge / 1RB

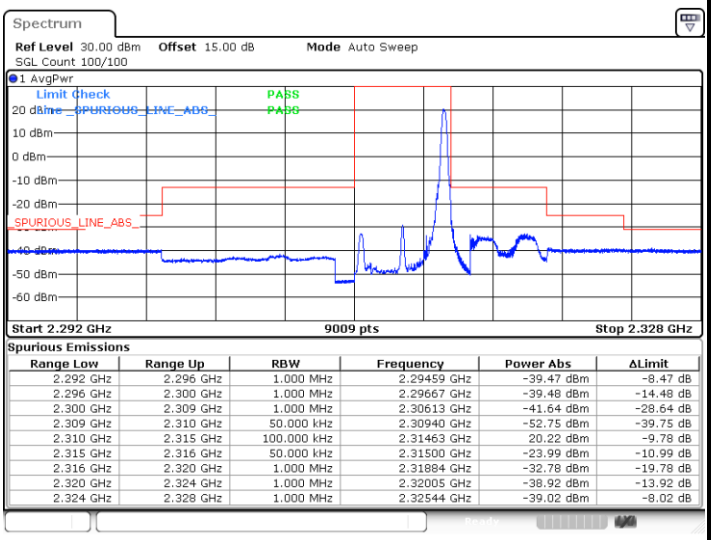


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29562 GHz	-39.35 dBm	-8.35 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29981 GHz	-39.20 dBm	-14.20 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30327 GHz	-33.50 dBm	-20.50 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30499 GHz	-24.60 dBm	-11.60 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30532 GHz	20.55 dBm	-9.45 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31018 GHz	-52.70 dBm	-39.70 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31412 GHz	-42.81 dBm	-29.81 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32164 GHz	-39.50 dBm	-14.50 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32722 GHz	-39.40 dBm	-8.40 dB

Date: 26.JUL.2018 23:46:10

Highest Band Edge / 1 RB

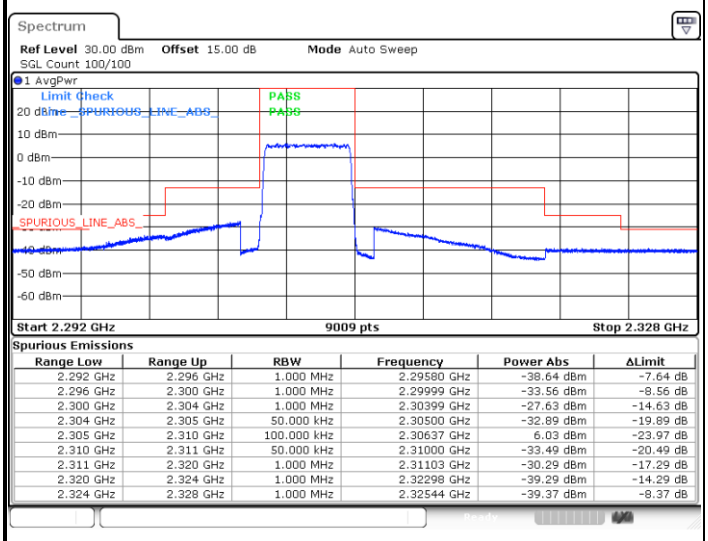


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29459 GHz	-39.47 dBm	-8.47 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29667 GHz	-39.48 dBm	-14.48 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30613 GHz	-41.64 dBm	-28.64 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30940 GHz	-52.75 dBm	-39.75 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31463 GHz	20.22 dBm	-9.78 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-23.99 dBm	-10.99 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31884 GHz	-32.78 dBm	-19.78 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32005 GHz	-38.92 dBm	-13.92 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32544 GHz	-39.02 dBm	-8.02 dB

Date: 26.JUL.2018 23:50:56

Lowest Band Edge / Full RB

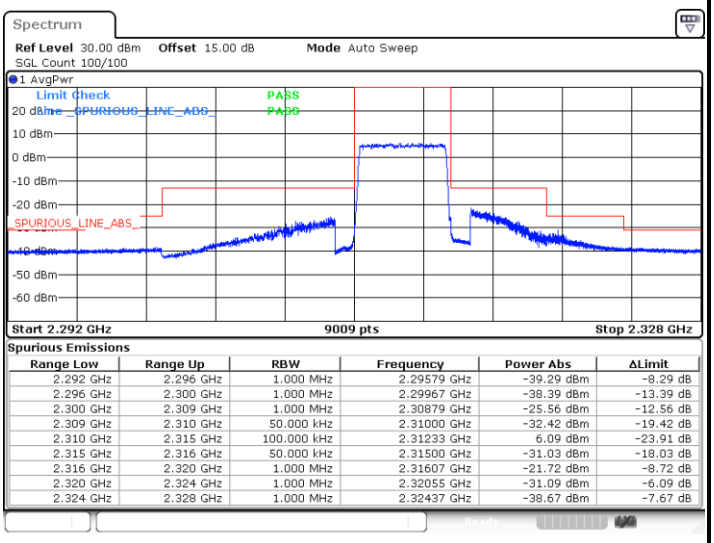


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29580 GHz	-38.64 dBm	-7.64 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29999 GHz	-33.56 dBm	-8.56 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30399 GHz	-27.63 dBm	-14.63 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-32.89 dBm	-19.89 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30637 GHz	6.03 dBm	-23.97 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31000 GHz	-33.49 dBm	-20.49 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31103 GHz	-30.29 dBm	-17.29 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32298 GHz	-39.29 dBm	-14.29 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32544 GHz	-39.37 dBm	-8.37 dB

Date: 26.JUL.2018 23:48:33

Highest Band Edge / Full RB



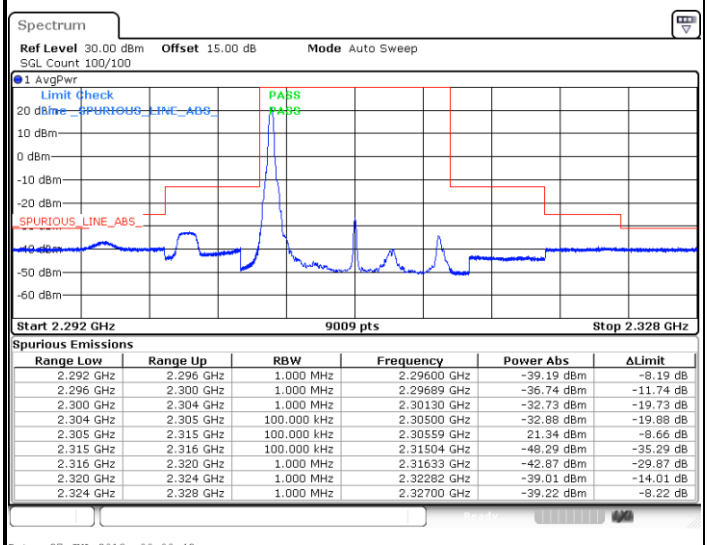
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29579 GHz	-39.29 dBm	-8.29 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29967 GHz	-38.39 dBm	-13.39 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30879 GHz	-25.56 dBm	-12.56 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.31000 GHz	-32.42 dBm	-19.42 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31233 GHz	6.09 dBm	-23.91 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-31.03 dBm	-18.03 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31607 GHz	-21.72 dBm	-8.72 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32055 GHz	-31.09 dBm	-6.09 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32437 GHz	-38.67 dBm	-7.67 dB

Date: 26.JUL.2018 23:53:19

LTE Band 30 / 10MHz / QPSK

Middle Band Edge / 1 RB

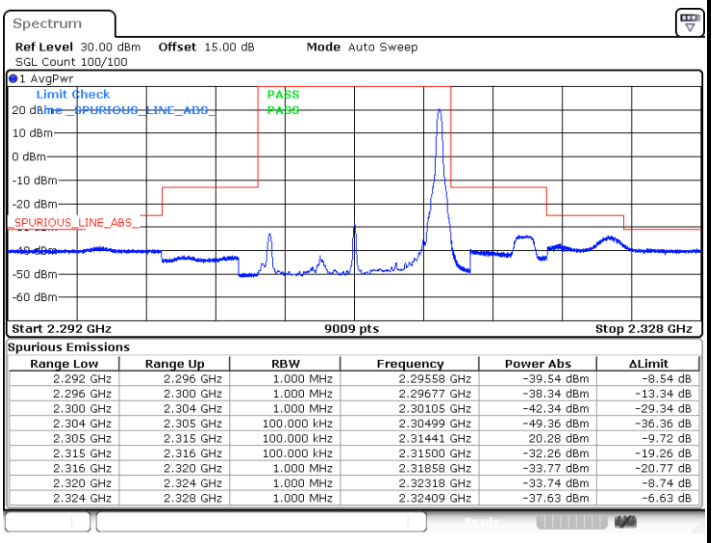


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29600 GHz	-39.19 dBm	-8.19 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29689 GHz	-36.74 dBm	-11.74 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30130 GHz	-32.73 dBm	-19.73 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30500 GHz	-32.88 dBm	-19.88 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30559 GHz	21.34 dBm	-8.66 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31504 GHz	-48.29 dBm	-35.29 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31633 GHz	-42.87 dBm	-29.87 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32282 GHz	-39.01 dBm	-14.01 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32700 GHz	-39.22 dBm	-8.22 dB

Date: 27.JUL.2018 00:00:42

Middle Band Edge / 1 RB

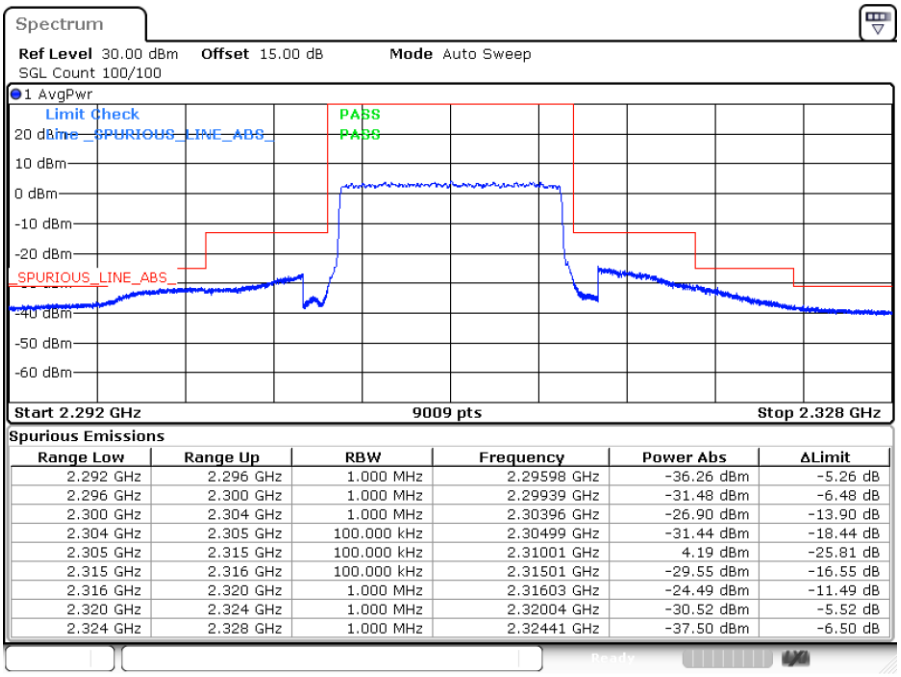


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29558 GHz	-39.54 dBm	-8.54 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29677 GHz	-38.34 dBm	-13.34 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30105 GHz	-42.34 dBm	-29.34 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30499 GHz	-49.36 dBm	-36.36 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31441 GHz	20.28 dBm	-9.72 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31500 GHz	-32.26 dBm	-19.26 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31858 GHz	-33.77 dBm	-20.77 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32318 GHz	-33.74 dBm	-8.74 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32409 GHz	-37.63 dBm	-6.63 dB

Date: 27.JUL.2018 00:05:28

Band Edge / Full RB



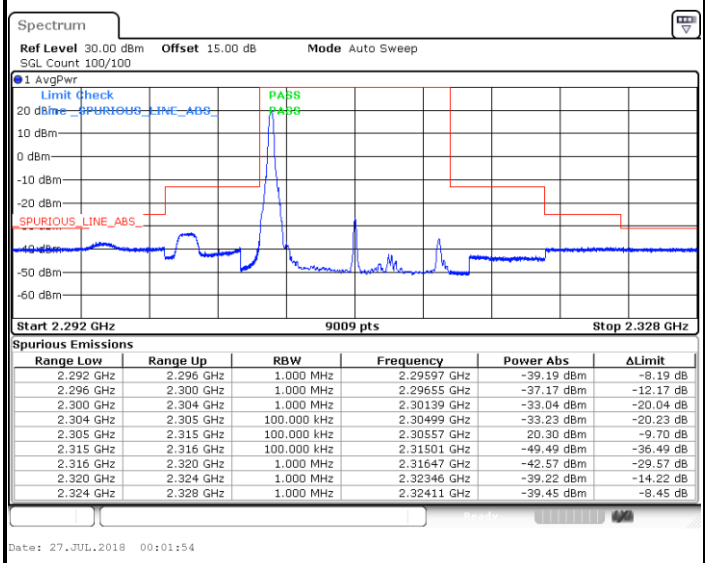
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29598 GHz	-36.26 dBm	-5.26 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29939 GHz	-31.48 dBm	-6.48 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30396 GHz	-26.90 dBm	-13.90 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30499 GHz	-31.44 dBm	-18.44 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31001 GHz	4.19 dBm	-25.81 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31501 GHz	-29.55 dBm	-16.55 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31603 GHz	-24.49 dBm	-11.49 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32004 GHz	-30.52 dBm	-5.52 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32441 GHz	-37.50 dBm	-6.50 dB

Date: 27.JUL.2018 00:03:06

LTE Band 30 / 10MHz / 16QAM

Middle Band Edge / 1 RB

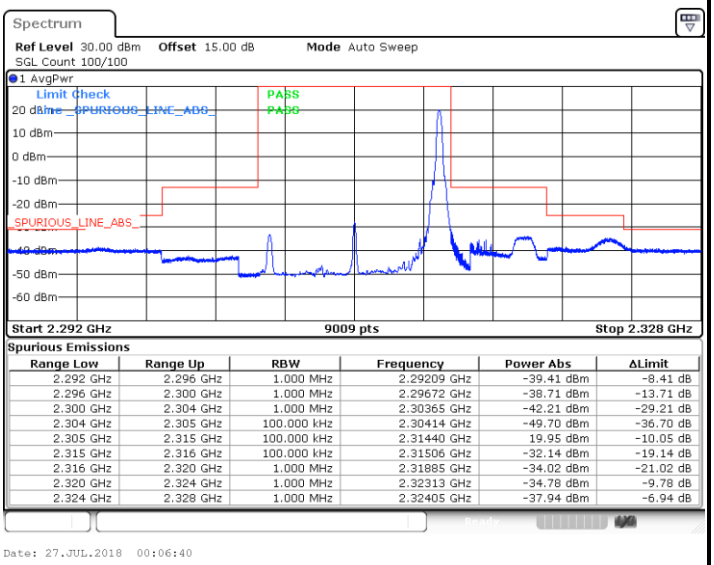


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29597 GHz	-39.19 dBm	-8.19 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29655 GHz	-37.17 dBm	-12.17 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30139 GHz	-33.04 dBm	-20.04 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30499 GHz	-33.23 dBm	-20.23 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30557 GHz	20.30 dBm	-9.70 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31501 GHz	-49.49 dBm	-36.49 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31647 GHz	-42.57 dBm	-29.57 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32346 GHz	-39.22 dBm	-14.22 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32411 GHz	-39.45 dBm	-8.45 dB

Date: 27.JUL.2018 00:01:54

Middle Band Edge / 1 RB

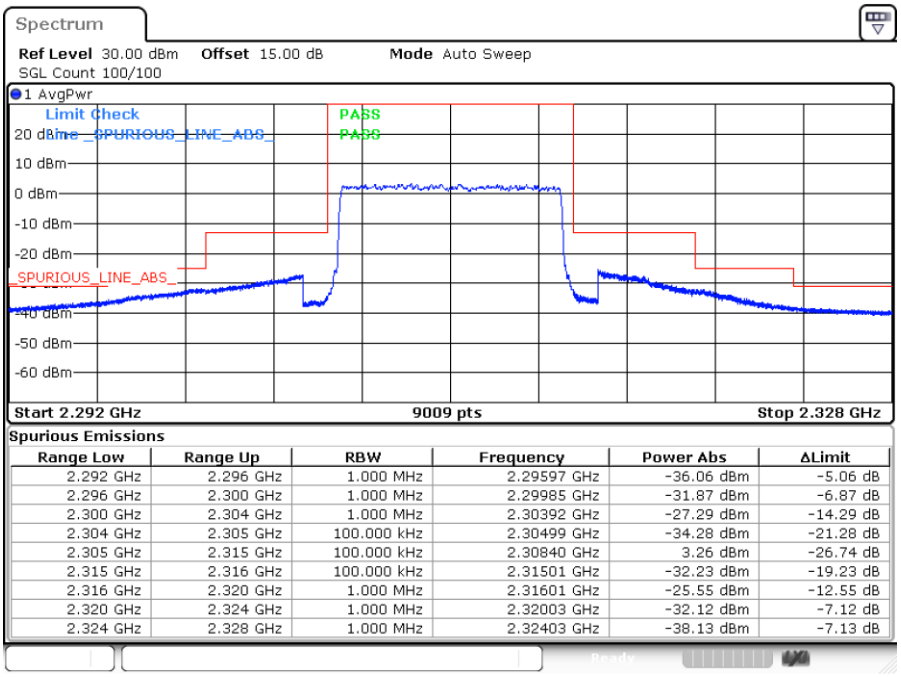


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29209 GHz	-39.41 dBm	-8.41 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29672 GHz	-38.71 dBm	-13.71 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30365 GHz	-42.21 dBm	-29.21 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30414 GHz	-49.70 dBm	-36.70 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31440 GHz	19.95 dBm	-10.05 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31506 GHz	-32.14 dBm	-19.14 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31885 GHz	-34.02 dBm	-21.02 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32313 GHz	-34.78 dBm	-9.78 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32405 GHz	-37.94 dBm	-6.94 dB

Date: 27.JUL.2018 00:06:40

Band Edge / Full RB



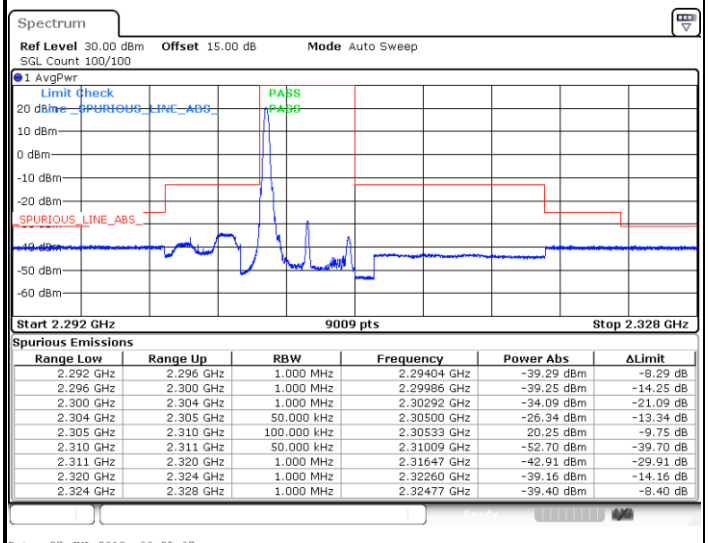
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29597 GHz	-36.06 dBm	-5.06 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29985 GHz	-31.87 dBm	-6.87 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30392 GHz	-27.29 dBm	-14.29 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30499 GHz	-34.28 dBm	-21.28 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30840 GHz	3.26 dBm	-26.74 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31501 GHz	-32.23 dBm	-19.23 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31601 GHz	-25.55 dBm	-12.55 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32003 GHz	-32.12 dBm	-7.12 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32403 GHz	-38.13 dBm	-7.13 dB

Date: 27.JUL.2018 00:04:17

LTE Band 30 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

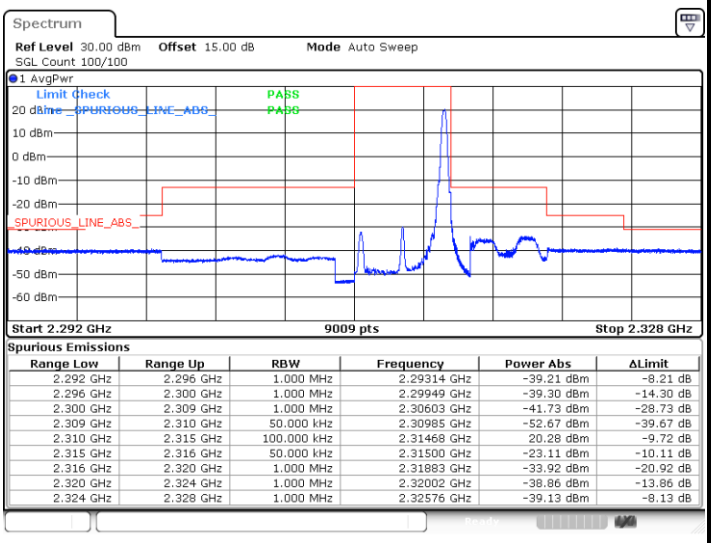


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29404 GHz	-39.29 dBm	-8.29 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29986 GHz	-39.25 dBm	-14.25 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30292 GHz	-34.09 dBm	-21.09 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-26.34 dBm	-13.34 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30533 GHz	20.25 dBm	-9.75 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31009 GHz	-52.70 dBm	-39.70 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31647 GHz	-42.91 dBm	-29.91 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32260 GHz	-39.16 dBm	-14.16 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32477 GHz	-39.40 dBm	-8.40 dB

Date: 27.JUL.2018 00:25:07

Highest Band Edge /1 RB

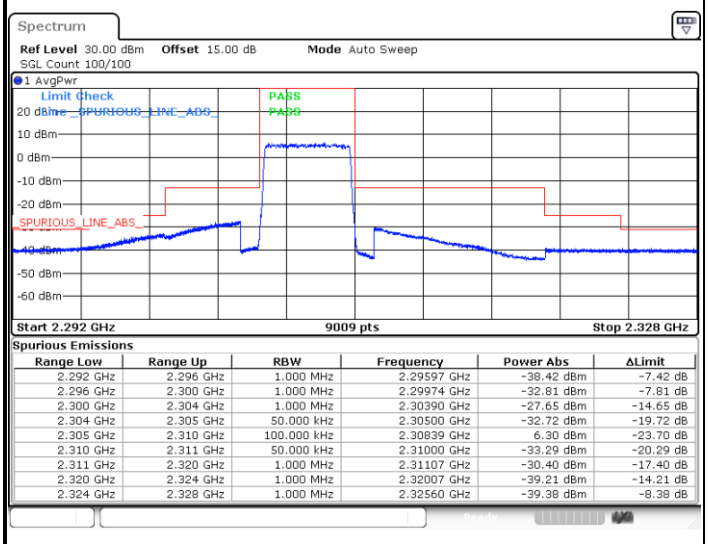


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29314 GHz	-39.21 dBm	-8.21 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29949 GHz	-39.30 dBm	-14.30 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30603 GHz	-41.73 dBm	-28.73 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30985 GHz	-52.67 dBm	-39.67 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31468 GHz	20.28 dBm	-9.72 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-23.11 dBm	-10.11 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31883 GHz	-33.92 dBm	-20.92 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32002 GHz	-38.86 dBm	-13.86 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32576 GHz	-39.13 dBm	-8.13 dB

Date: 27.JUL.2018 00:27:29

Lowest Band Edge / Full RB

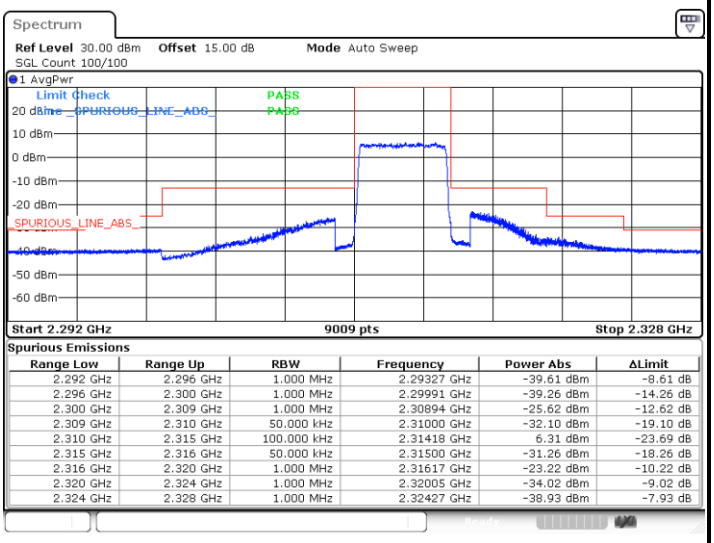


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29597 GHz	-38.42 dBm	-7.42 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29974 GHz	-32.81 dBm	-7.81 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30390 GHz	-27.65 dBm	-14.65 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-32.72 dBm	-19.72 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30839 GHz	6.30 dBm	-23.70 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31000 GHz	-33.29 dBm	-20.29 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31107 GHz	-30.40 dBm	-17.40 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32007 GHz	-39.21 dBm	-14.21 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32560 GHz	-39.38 dBm	-8.38 dB

Date: 27.JUL.2018 00:26:18

Highest Band Edge / Full RB



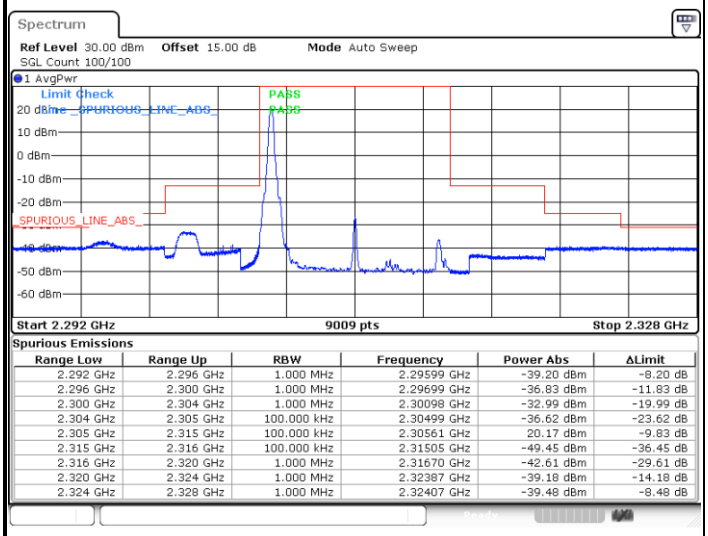
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29327 GHz	-39.61 dBm	-8.61 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29991 GHz	-39.26 dBm	-14.26 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30894 GHz	-25.62 dBm	-12.62 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.31000 GHz	-32.10 dBm	-19.10 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31418 GHz	6.31 dBm	-23.69 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-31.26 dBm	-18.26 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31617 GHz	-23.22 dBm	-10.22 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32005 GHz	-34.02 dBm	-9.02 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32427 GHz	-38.93 dBm	-7.93 dB

Date: 27.JUL.2018 00:28:41

LTE Band 30 / 10MHz / 64QAM

Middle Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29599 GHz	-39.20 dBm	-8.20 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29699 GHz	-36.83 dBm	-11.83 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30098 GHz	-32.99 dBm	-19.99 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30499 GHz	-36.62 dBm	-23.62 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30561 GHz	20.17 dBm	-9.83 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31505 GHz	-49.45 dBm	-36.45 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31670 GHz	-42.61 dBm	-29.61 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32387 GHz	-39.18 dBm	-14.18 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32407 GHz	-39.48 dBm	-8.48 dB

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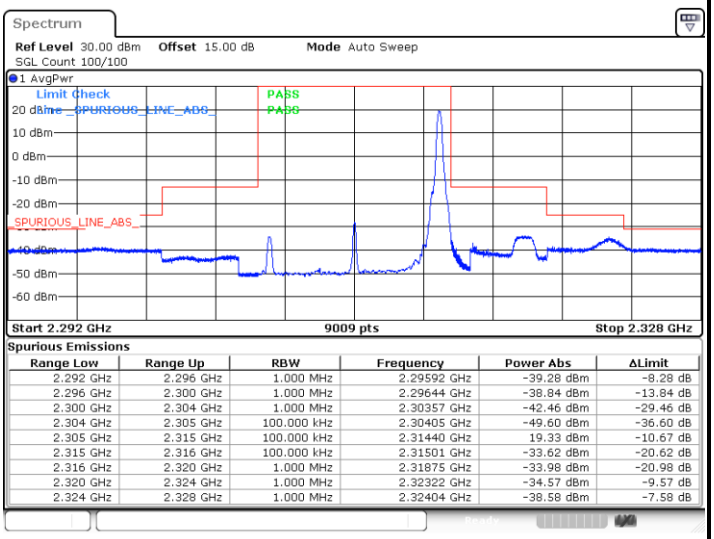
Middle Band Edge / 1 RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29592 GHz	-39.28 dBm	-8.28 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29644 GHz	-38.84 dBm	-13.84 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30357 GHz	-42.46 dBm	-29.46 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30405 GHz	-49.60 dBm	-36.60 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31440 GHz	19.33 dBm	-10.67 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31501 GHz	-33.62 dBm	-20.62 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31875 GHz	-33.98 dBm	-20.98 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32322 GHz	-34.57 dBm	-9.57 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32404 GHz	-38.58 dBm	-7.58 dB

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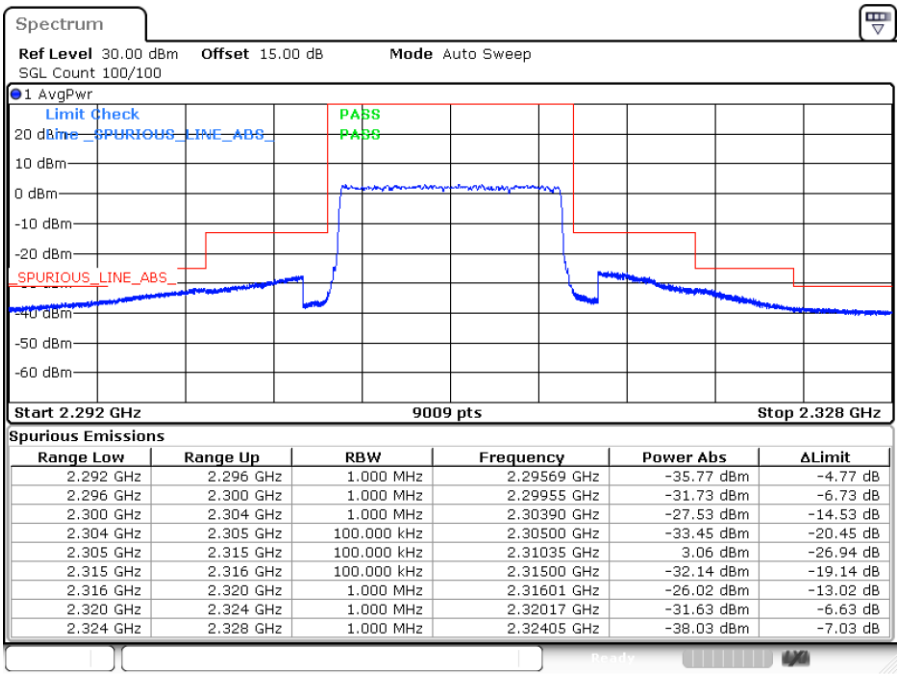
Middle Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29569 GHz	-35.77 dBm	-4.77 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29955 GHz	-31.73 dBm	-6.73 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30390 GHz	-27.53 dBm	-14.53 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30500 GHz	-33.45 dBm	-20.45 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31035 GHz	3.06 dBm	-26.94 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31500 GHz	-32.14 dBm	-19.14 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31601 GHz	-26.02 dBm	-13.02 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32017 GHz	-31.63 dBm	-6.63 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32405 GHz	-38.03 dBm	-7.03 dB

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