

FCC PART 22/24/27 TEST REPORT

for

Wireless Medical Alarm

Model No.:

CTC-1052xxx-xxxxx Series (x=0~9, A~Z or blank)

FCC ID: GX9CTC1052LTE

of

Applicant: CLIMAX TECHNOLOGY CO., LTD.

**Address: No. 258, Sinhu 2nd Rd., Neihu District
Taipei City 114 Taiwan (R.O.C.)**

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1477, TW1111, TW1072, TW1110

Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC 5107A-1

A2LA Accredited No.: 2732.01



Report No.: W6M21711-17577-P-247

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
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Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247
FCC ID: GX9CTC1052LTE

Certification of Test Report

Applicant : CLIMAX TECHNOLOGY CO., LTD.
No. 258, Sinhu 2nd Rd., Neihu District
Taipei City 114 Taiwan (R.O.C.)

Manufacturer : CLIMAX TECHNOLOGY CO., LTD.
No. 258, Sinhu 2nd Rd., Neihu District
Taipei City 114 Taiwan (R.O.C.)

Tested Equipment :

Type Description	: Wireless Medical Alarm
Model Number	: CTC-1052xxx-xxxxx Series (x=0~9, A~Z or blank)
Brand Name	: ./.
Operation Frequency	: Please see chapter 2.3.
RF Output Power:	: WCDMA Band 2: 22.51 dBm (EIRP) Band 5: 19.58 dBm (ERP) LTE Band 2: 29.86 dBm (EIRP) Band 4 24.28 dBm (EIRP) Band 5: 26.77 dBm (ERP) Band 17: 26.32 dBm (ERP)
Power Supply	: Adaptor (I/P: 100-240V ~ 50/60Hz, 0.4A; O/P: 12V, 1A) Battery: 1.2VDCx6, 1100mAh

Regulation Applied : 47CFR Part 22 (2016-10), Part 24 (2016-10),
Part 27 (2016-10)

Test Method : 47CFR Part 2 (2016), TIA/EIA-603E (2016) and
ANSI C63.4 (2014)

I HEREBY CERTIFY THAT: The test results written in this report were derived conscientiously in accordance with the requirements and procedures of 47CFR Part 2(2016), TIA/EIA-603E (2016), and it was found that the device described above is in compliance with the applicable limits specified in 47CFR Part 22/24/27.

Note:

1. The result of this test report is valid only in connection to the sample has been tested at the laboratory of Worldwide Testing Services (Taiwan) Co. Ltd.
2. This test report shall always be duplicated in full pages unless the written approval of the testing laboratory is obtained.

Test Engineer:

December 07, 2017

Robert Ren

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

December 07, 2017

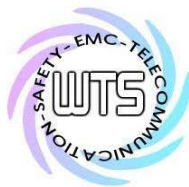
Kevin Wang

Date

WTS

Name

Signature



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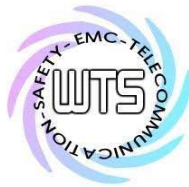
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1. Summary

1.1 Description of tested equipment

This equipment under tested, CTC-1052xxx-xxxxx Series (x=0~9, A~Z or blank), is a Wireless Medical Alarm.

This test report only contains test requirements specified in 47CFR Part 22, Part 24 and Part 27 for WCDMA and LTE function. For other functions; please refer to separate test report with respect to the relevant test standard and specification.

1.2 Date of testing processing

Date of receipt of test item: November 20, 2017

Date of test: from November 21, 2017 to December 07, 2017

Other Information: None

1.3 Modification Information

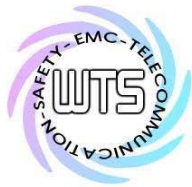
No modification was made during the all test items been performed.

1.4 Test standards

Technical standard: **47CFR Part 22 (2016-10), Part 24 (2016-10) and Part 27 (2016-10)**

Test method: **FCC Part 2 (2016), TIA/EIA-603E (2016), ANSI C63.4 (2014)**

Deviation from test standard: None



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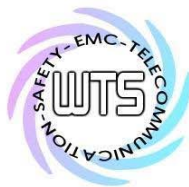
1.5 Summary of test result

WCDMA

Section in this Report	Test Item	FCC Relevant Section	Verdict
3.2	Effective Radiated Power and Equivalent Isotropic Radiated Power Measurement	2.1046(a), 24.232	Pass
4.2	Modulation characteristics	2.1047	Not Required
5.3	Peak-to-Average Ratio	24.232	Pass
6.2	Occupied bandwidth	2.1049(h) 24.238(b)	Pass
7.2	Conducted Spurious Emission Measurement	24.238(a), 2.1051	Pass
8.2	Radiated Spurious Emission Measurement	24.238(a), 2.1053	Pass
8.5	Conducted Band Edge Measurement	24.238(b)	Pass
9.2	Frequency stability / Temperature variation Measurement	2.1055 24.235	Pass

LTE

Harmonized Standard Requirements and Conformance Test Specifications				
Item	Clause	Test Content	Limit	Test Result
3.2	§22.913 §24.232 §27.50	Effective Radiated Power and Equivalent Isotropic Radiated Power Measurement	ERP < 7 Watts (Band 5) EIRP < 2 Watts (Band 2) ERP < 3 Watts (Band 17) EIRP < 1 Watts (Band 4)	Pass
5.3	§24.232 §27.50	Peak-to-Average Ratio	< 13 dB	Pass
6.2	§2.1049	Occupied Bandwidth	OBW : No Limit	Pass
7.2	§22.917 §24.238 §27.53	Conducted Spurious Emission Measurement	< 43+10log10(P[Watts])	Pass
8.2	§22.917 §24.238 §27.53	Radiated Spurious Emission Measurement	< 43+10log10(P[Watts])	Pass
8.5	§22.917 §24.238 §27.53	Conducted Band Edge Measurement	< 43+10log10(P[Watts])	Pass
9.2	§2.1055 §22.355 §24.235 §27.54	Frequency stability / Temperature variation Measurement	< 2.5 ppm	Pass



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2. General Information

2.1 Testing laboratory

2.1.1 Location

OATS
No.5-1, Shuang Sing Village,
LiShuei Rd., Wanli Township,
Taipei County 207, Taiwan (R.O.C.)
Company
Worldwide Testing Services (Taiwan) Co., Ltd.
6F, NO. 58, LANE 188, RUEY-KUANG RD.
NEIHU, TAIPEI 114, TAIWAN R.O.C.
Tel : 886-2-66068877
Fax : 886-2-66068879

2.1.2 Details of accreditation status

Accredited testing laboratory
A2LA-registration number: 2732.01
FCC filed test laboratory Reg. No. TW1477, TW1111, TW1072, TW1110
Industry Canada filed test laboratory Reg. No. IC 5679A-1, IC 5107A-1

2.1.3 Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd.

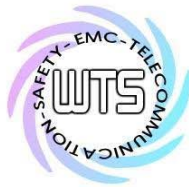
Name: ./.
Accredited number: ./.
Street: ./.
Town: ./.
Country: ./.
Telephone: ./.
Fax: ./.

2.2 Details of approval holder

Name: CLIMAX TECHNOLOGY CO., LTD.
Street: No. 258, Sinhu 2nd Rd., Neihu District
Town: Taipei City 114
Country: Taiwan (R.O.C.)
Telephone: +886-2-2794-0001
Fax: +886-2-2792-6618

Manufacturer: (if different from applicant)

Name: ./.
Street: ./.
Town: ./.
Country: ./.



Worldwide Testing Services(Taiwan) Co., Ltd.

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2.3 Description of Tested System

The EUT was tested alone without the Accessories or Peripherals.

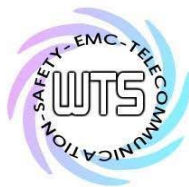
Equipment	Model No.	Series No.	Software	Cable information	Note
No accessories were used with this EUT.					

Frequencies Selected to be investigated:

WCDMA		
Band	Tx	Rx
WCDMA Band 2	MHz	MHz
CH 9262	1852.4	1932.4
CH 9400	1880	1960
CH 9538	1907.6	1987.6
WCDMA Band 5	MHz	MHz
CH 4132	826.4	871.4
CH 4183	836.6	881.6
CH 4233	846.6	891.6

LTE							
Operating Band	Channel Bandwidth	Bottom Channel		Middle Channel		Top Channel	
		Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
2	1.4MHz	18607	1850.7	18900	1880	19193	1909.3
2	3MHz	18615	1851.5	18900	1880	19185	1908.5
2	5MHz	18625	1852.5	18900	1880	19175	1907.5
2	10MHz	18650	1855	18900	1880	19150	1905
2	15MHz	18675	1857.5	18900	1880	19125	1902.5
2	20MHz	18700	1860	18900	1880	19100	1900

LTE							
Operating Band	Channel Bandwidth	Bottom Channel		Middle Channel		Top Channel	
		Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
4	1.4MHz	19957	1710.7	20175	1732.5	20393	1754.3
4	3MHz	19965	1711.5	20175	1732.5	20385	1753.5
4	5MHz	19975	1712.5	20175	1732.5	20375	1752.5
4	10MHz	20000	1715	20175	1732.5	20350	1750
4	15MHz	20025	1717.5	20175	1732.5	20325	1747.5
4	20MHz	20050	1720	20175	1732.5	20300	1745



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LTE							
Operating Band	Channel Bandwidth	Bottom Channel		Middle Channel		Top Channel	
		Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
5	1.4MHz	20407	824.7	20525	836.5	20643	848.3
5	3MHz	20415	825.5	20525	836.5	20635	847.5
5	5MHz	20425	826.5	20525	836.5	20625	846.5
5	10MHz	20450	829	20525	836.5	20600	844

LTE							
Operating Band	Channel Bandwidth	Bottom Channel		Middle Channel		Top Channel	
		Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
17	5MHz	23755	706.5	23790	710	23825	713.5
17	10MHz	23780	709	23790	710	23800	711

Antenna Type: PCB antenna

Antenna Gain: WCDMA (Band 2: -0.53 dBi, Band 5: -4.79 dBi)
LTE (Band 2: -0.53 dBi, Band 4: -1.18 dBi, Band 5: -4.79 dBi,
Band 17: -1.08 dBi)

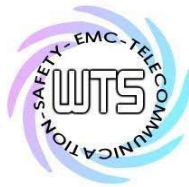
Power supply: Adaptor (I/P: 100-240V ~ 50/60Hz, 0.4A; O/P: 12V, 1A)
Battery: 1.2VDCx6, 1100mAh

2.4 Test environment

Temperature: 27 °C
Relative humidity content: 54 %
Air pressure: 86-103 Kpa

Special statement:

1. This test report is valid in connection to the model has been tested, any modification to the product which is different from the test model will avoid the certification of the test report.
2. This test report shall always be duplicated in full pages unless the written approval of the testing laboratory is obtained.
3. The x in model number is representing different case shape, case colors, led mask color, and control ID. The model number of EUT is CTC-1052-LTE. This model does not contain logo.



2.5 General Test Requirement

Radiated Emission: For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100 kHz respectively with an appropriate sweep speed.

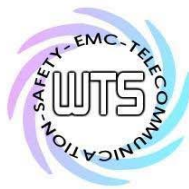
For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.



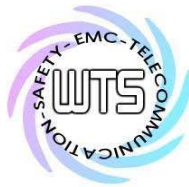
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2.6 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2017/5/26	2018/5/25
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2017/10/26	2018/10/25
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2017/8/22	2018/8/21
ETSTW-CE 008	HF-EICHLLEITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function Test	
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2017/7/14	2018/7/13
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2017/8/31	2018/8/30
ETSTW-CE 028	MXE EMI Receiver	N9038A	MY53220110	Agilent	2017/7/11	2018/7/10
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2017/5/26	2018/5/25
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2017/5/17	2018/5/16
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2017/8/25	2018/8/24
ETSTW-RE 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Function Test	
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function Test	
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2017/7/4	2018/7/3
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2017/7/3	2018/7/2
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2017/3/22	2018/3/21
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2017/2/7	2018/2/6
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2017/4/10	2018/4/9
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2017/4/27	2018/4/26
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2017/3/1	2018/2/28
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2017/3/1	2018/2/28
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2017/3/1	2018/2/28
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2017/3/1	2018/2/28
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2017/3/1	2018/2/28
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2017/4/12	2018/4/11
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	ETS-Lindgren	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2017/9/11	2018/9/10
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2017/9/19	2018/9/18
ETSTW-RE 091	Match Pad	MDCS1500	None	WOKEN	2017/4/6	2018/4/5
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2017/3/1	2018/2/28

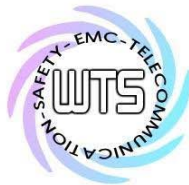


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ETSTW-RE 112	AC POWER SOURCE	TFC-1005	T-0A023536	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2017/1/12	2018/1/11
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2017/5/26	2018/5/25
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2017/8/9	2018/8/8
ETSTW-RE 126	5GHz Notch filter	5NSL12-5800/E221.3-O/O	1	K&L Microwave	2017/8/9	2018/8/8
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2017/3/1	2018/2/28
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circuits	2017/8/9	2018/8/8
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2017/8/9	2018/8/8
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-RE 142	Amplifier	8447D	2805A03378	Agilent	2017/4/12	2018/4/11
ETSTW-RE 147	Bi-log Hybrid Antenna	MCTD 2786B	BLB16M04005	ETC	2017/3/22	2018/3/21
ETSTW-RE 151	Thermohygrometer	608-h1	45104376	TESTO	2017/8/30	2018/8/29
ETSTW-EMI 011	USB Compact Modulator	SFC-U	101689	R&S	2017/5/10	2018/5/9
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2017/2/24	2018/2/23
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2017/2/10	2018/2/9
ETSTW-GSM 004	Wideband Radio Communication Tester	CMW500	128092	R&S	2017/10/16	2018/10/15
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	2017/1/12	2018/1/11
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2017/1/12	2018/1/11
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2017/1/12	2018/1/11
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2017/1/12	2018/1/11
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2017/9/13	2018/9/12
ETSTW-Cable 011	SMA to N type Cable	RGU-400	None	THERMAX	Pre-test Use NCR	
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2017/2/23	2018/2/22
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2017/2/23	2018/2/22
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2017/2/23	2018/2/22
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2017/2/23	2018/2/22
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2017/7/3	2018/7/2
ETSTW-Cable 022	N TYPE Cable	5006	0002	JYE BAO CO.,LTD.	2017/4/6	2018/4/5
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2017/3/1	2018/2/28
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2017/5/12	2018/5/11
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2017/9/7	2018/9/6
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2017/9/7	2018/9/6
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S Cable 9)	279067	HUBER+SUHNER	2017/3/1	2018/2/28
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104 (S Cable 10)	238092	HUBER+SUHNER	2017/4/12	2018/4/11
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2017/4/12	2018/4/11



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ETSTW-Cable 048	Microwave Cable	SUCOFLEX 104	325519	HUBER+SUHNER	2017/4/12	2018/4/11
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2017/2/20	2018/2/19
ETSTW-Cable 064	Microwave Cable	SUCOFLEX 104	MY28891	HUBER+SUHNER	2017/4/12	2018/4/11
ETSTW-Cable 066	SMA type cable	32022	None	ASTROLAB	2017/8/31	2018/8/30
ETSTW-Cable 071	N TYPE CABLE	EMCCFD400-NM- NM-25000	170239	EMCI	2017/2/20	2018/2/19
WTSTW-SW 002	EMI TEST SOFTWARE	EZ EMC	None	Farad	Version ETS-03A1	
WTSTW-SW 006	EMI TEST SOFTWARE	e3	None	AUDIX	Version 9.161014	
WTSTW-SW 008	Signal studio	Agilent	None	AUDIX	Version 2.0.0.1	

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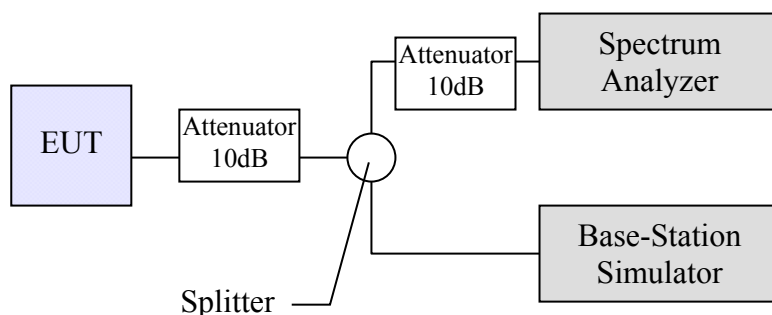
3. RF Power Output

3.1 Test procedure

3.1.1 Conducted Method

Per 47CFR Part 2.1046, the RF power output shall be measured at the RF output terminals and following procedure is employed:

The transmitter output was connected as the following figure:



The whole connection system is calibrated with a standard signal generator. Power on and make a link from simulator to EUT and then set the EUT to maximum output power.

Measure the RF power with the spectrum analyzer in accordance the following settings:

RBW: 300 kHz for Frequency below 1GHz and 1MHz for Frequency equal to and above 1GHz.

VBW: 300 kHz for Frequency below 1GHz and 1MHz for Frequency equal to and above 1GHz.

Span: 2MHz

Sweep: 3s

The power output at the transmitter antenna terminal is then determined by assign the value of the corrected factor to the spectrum analyzer reading.

Tests were performed at three frequencies (low, middle and high channels) and operation mode selected.

3.1.2 Radiated Method

If the conducted measurement is not practical due to the integral antenna, the radiated measurement will be performed in accordance the following procedure:

The EUT was positioned on a non-conductive turntable, 0.8m above the ground on an open test site.

The radiated emission at the fundamental frequency was measured at 3m distance with a test antenna and spectrum analyzer.

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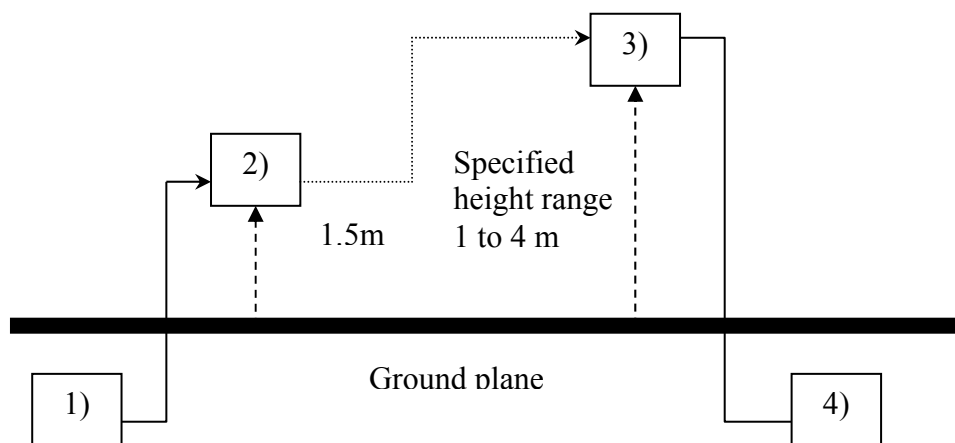
FCC ID: GX9CTC1052LTE

Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

Substitution RF power Measurement at WTS Taiwan
General:

The applied substitution method follows ANSI/TIA/EIA-603, ANSI/TIA/EIA-102.CAAA or the appropriate ETSI rules respectively.

The actual signal generated by the EUT can be determined by means of a substitution measurement in which a known signal source replaces the device to be measured.



- 1) Signal generator;
- 2) Substitution antenna;
- 3) Test antenna;
- 4) Spectrum analyzer or selective voltmeter.

The substitution antenna replaces the transmitter antenna at the same position and in vertical polarization. The frequency of the signal generator shall be adjusted to the measurement frequency.

The test antenna shall be raised or lowered, if necessary, to ensure that the maximum signal is still received. The input signal to the substitution antenna shall be adjusted in level until an equal or a known related level to that detected from the transmitter is obtained in the measurement receiver.

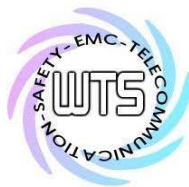
If a fully anechoic chamber is used as test site in order to provide free space conditions there is no need to change the height of the antenna.

The measurement will be repeated in horizontal position.

Calibration:

In order to make this kind of measurement more effective and to avoid subjective measurement faults WTS has installed automatic computer controlled measurement procedures.

With the above described substitution method a test site is calibrated over the full frequency range which is used in suitable frequency steps. For a certain power level on the substitution antenna the received power over the whole frequency range is documented. All necessary antenna gains, cable losses, filter losses and amplifications of preamplifiers are taken in



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consideration. The summary of this calibration measurement performs a transducer factor that is related to the considered test site and a certain measurement distance. Differences of the radiated power levels of different test samples are determined by internal attenuation of measurement receiver. The proper function of such test site will be maintained by short term plausibility checks and periodical re-calibration.

Testing:

The test sample will be putted on the table at the defined position and the radiated power will be receiver and documented by the measurement receiver.

On test sites with ground plane the measurement antenna will be lowered and raised to maximum values at significant frequencies.

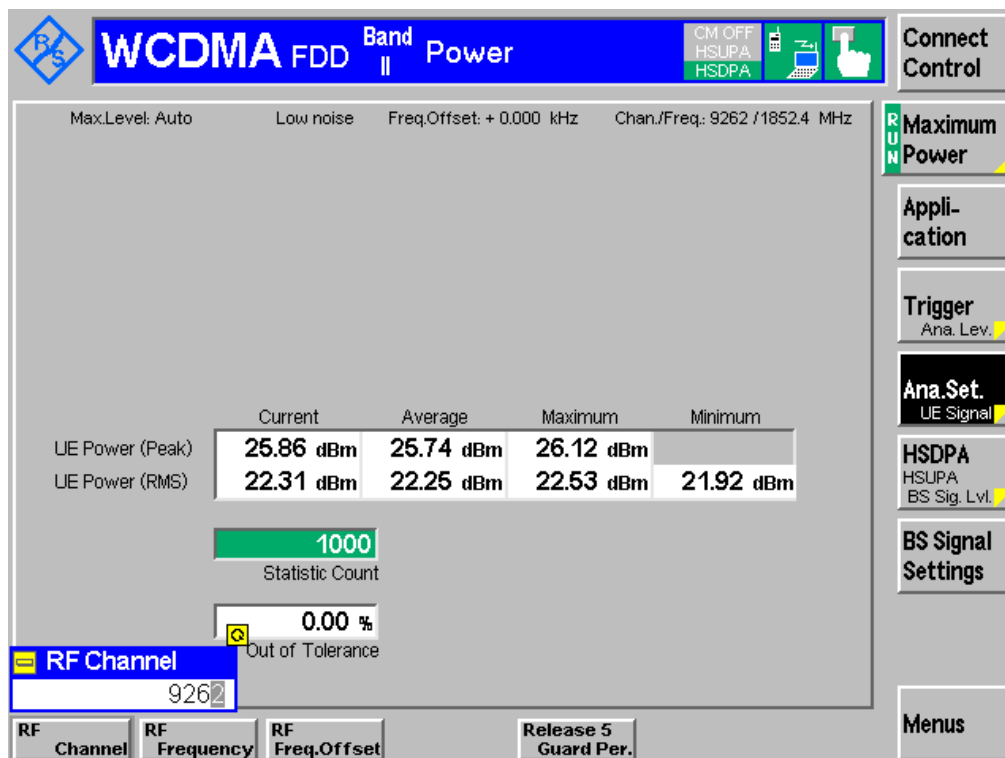
For peak power measurements the sample is turned by the turntable over 360 degree in order to find the direction with the maximum radiation or to document the max reading with the MAXHOLD function during the rotation.

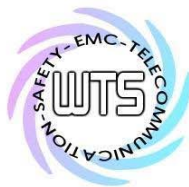
3.2 Test Results

- ☒ Conducted Measurement
- ☐ Radiated Measurement

WCDMA

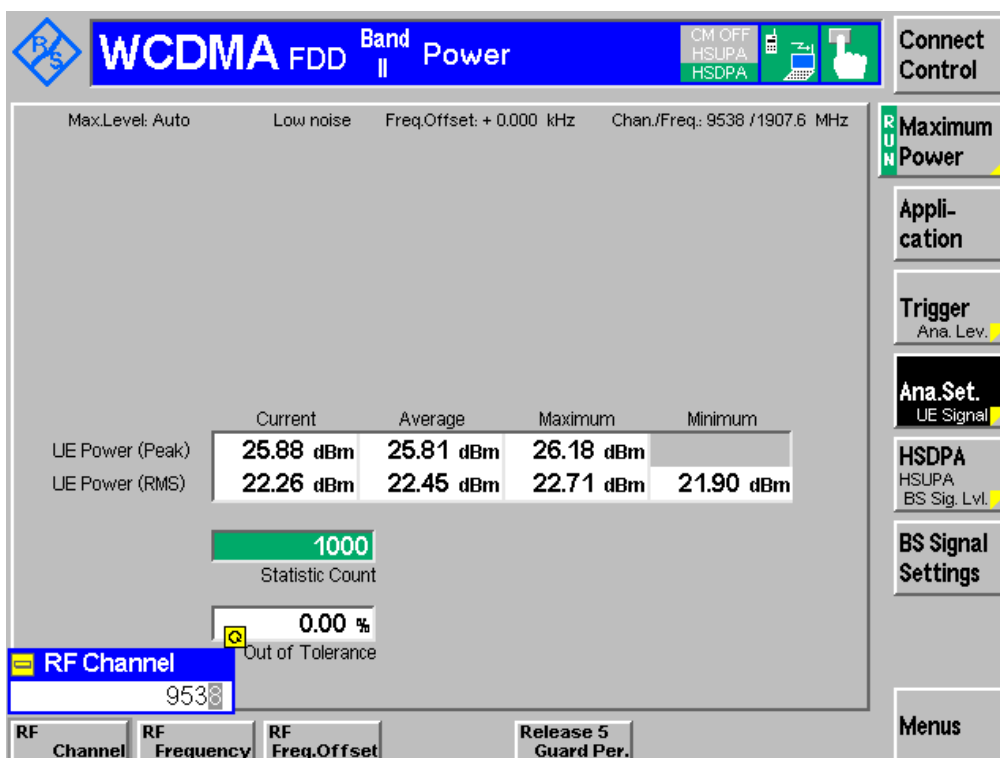
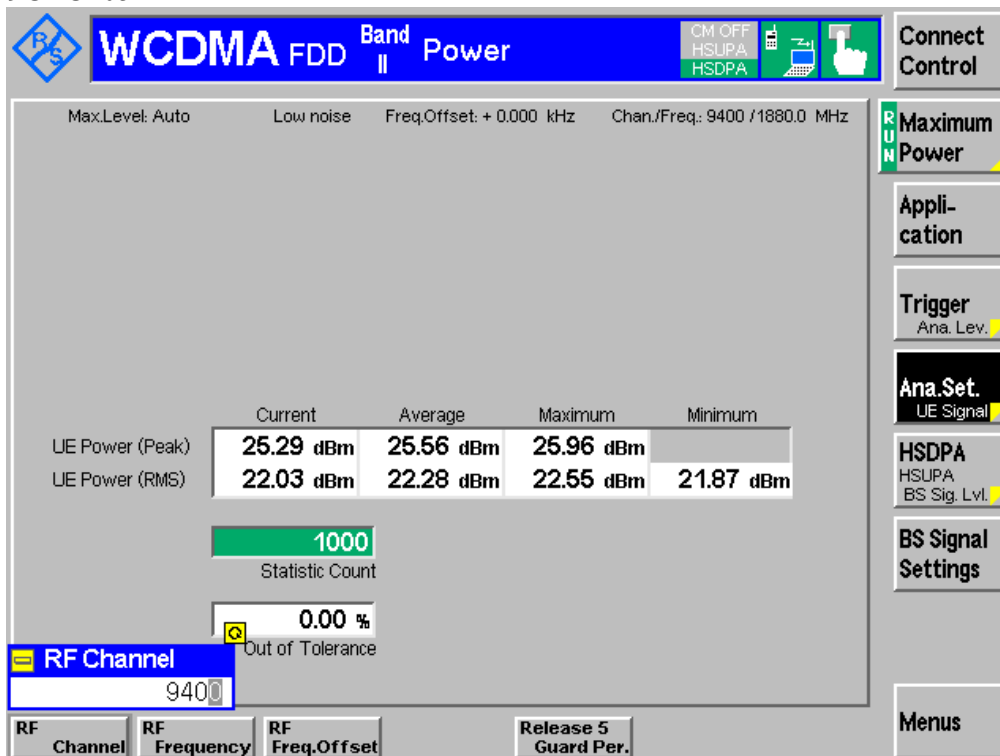
Band 2

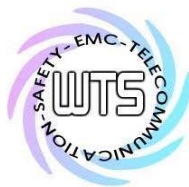




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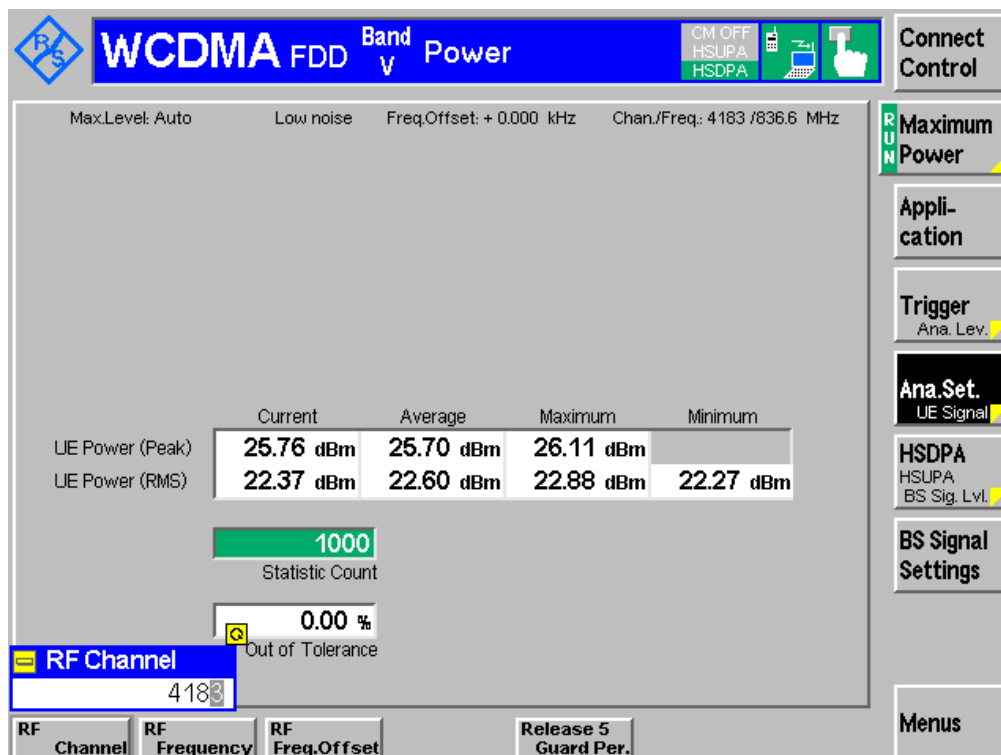
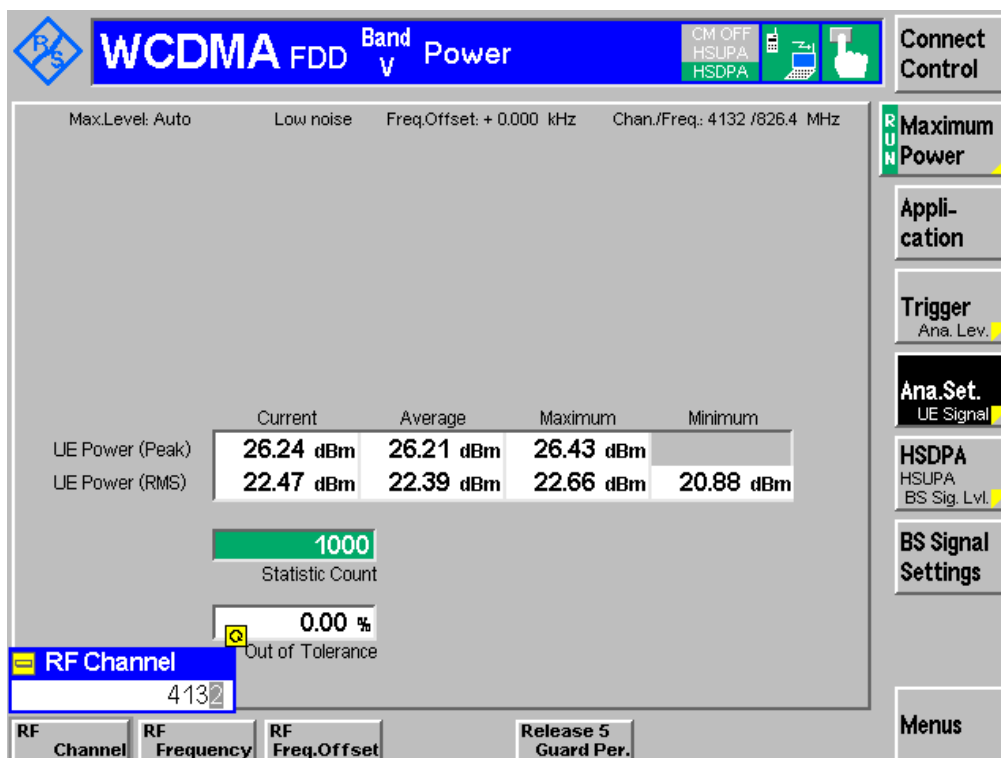


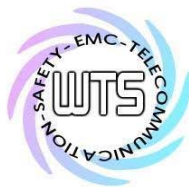
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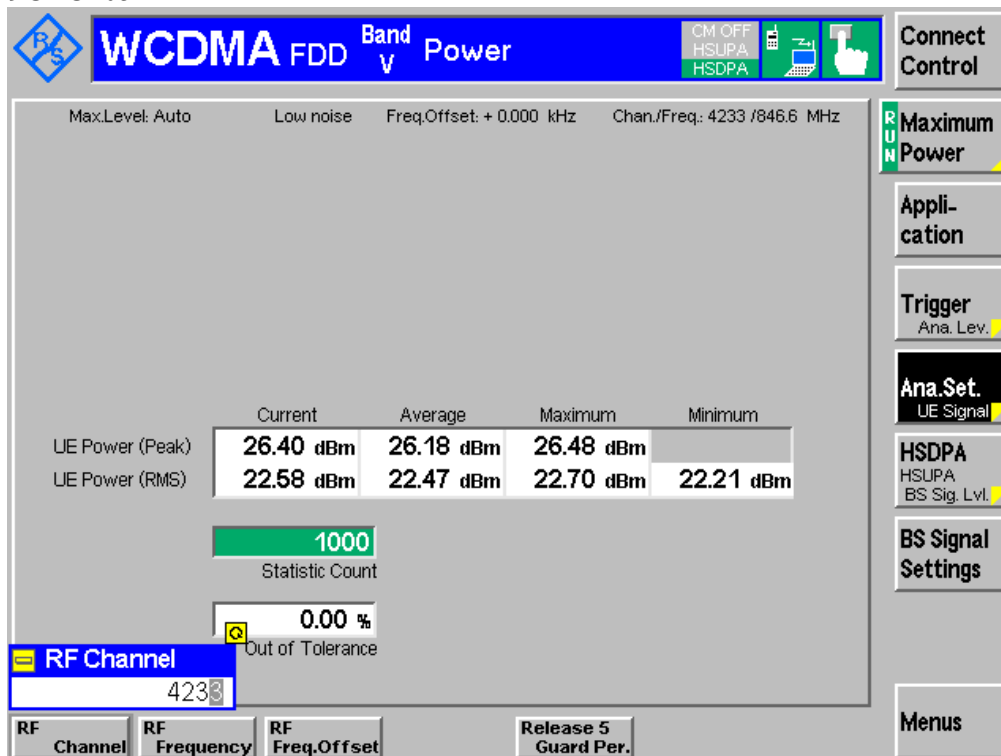
Band 5





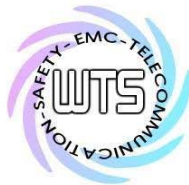
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FCC ID: GX9CTC1052LTE



LTE

Band	Modulation	Bandwidth	RB#Offset	Channel	Power (dBm)	Result
2	QPSK	1.4MHz	1RB#0	18607	23.34	PASS
2	QPSK	1.4MHz	1RB#MAX	18607	23.37	PASS
2	QPSK	1.4MHz	PRB#0	18607	23.37	PASS
2	QPSK	1.4MHz	FRB#0	18607	22.39	PASS
2	16QAM	1.4MHz	1RB#0	18607	22.51	PASS
2	16QAM	1.4MHz	PRB#0	18607	22.51	PASS
2	16QAM	1.4MHz	FRB#0	18607	21.58	PASS
2	QPSK	1.4MHz	1RB#0	18900	23.26	PASS
2	QPSK	1.4MHz	1RB#MAX	18900	23.28	PASS
2	QPSK	1.4MHz	PRB#0	18900	23.28	PASS
2	QPSK	1.4MHz	FRB#0	18900	22.35	PASS
2	16QAM	1.4MHz	1RB#0	18900	22.32	PASS
2	16QAM	1.4MHz	PRB#0	18900	22.41	PASS
2	16QAM	1.4MHz	FRB#0	18900	21.57	PASS
2	QPSK	1.4MHz	1RB#0	19193	23.46	PASS
2	QPSK	1.4MHz	1RB#MAX	19193	23.49	PASS
2	QPSK	1.4MHz	PRB#0	19193	23.49	PASS
2	QPSK	1.4MHz	FRB#0	19193	22.54	PASS
2	16QAM	1.4MHz	1RB#0	19193	22.57	PASS
2	16QAM	1.4MHz	PRB#0	19193	22.60	PASS
2	16QAM	1.4MHz	FRB#0	19193	21.73	PASS
2	QPSK	3MHz	1RB#0	18615	23.69	PASS
2	QPSK	3MHz	1RB#MAX	18615	23.56	PASS

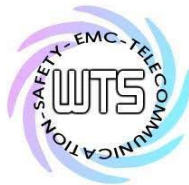


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FCC ID: GX9CTC1052LTE

2	QPSK	3MHz	PRB#0	18615	23.56	PASS
2	QPSK	3MHz	FRB#0	18615	22.62	PASS
2	16QAM	3MHz	1RB#0	18615	22.86	PASS
2	16QAM	3MHz	PRB#0	18615	22.82	PASS
2	16QAM	3MHz	FRB#0	18615	21.79	PASS
2	QPSK	3MHz	1RB#0	18900	23.53	PASS
2	QPSK	3MHz	1RB#MAX	18900	23.47	PASS
2	QPSK	3MHz	PRB#0	18900	23.47	PASS
2	QPSK	3MHz	FRB#0	18900	22.46	PASS
2	16QAM	3MHz	1RB#0	18900	22.66	PASS
2	16QAM	3MHz	PRB#0	18900	22.64	PASS
2	16QAM	3MHz	FRB#0	18900	21.66	PASS
2	QPSK	3MHz	1RB#0	19185	23.75	PASS
2	QPSK	3MHz	1RB#MAX	19185	23.62	PASS
2	QPSK	3MHz	PRB#0	19185	23.62	PASS
2	QPSK	3MHz	FRB#0	19185	22.81	PASS
2	16QAM	3MHz	1RB#0	19185	22.95	PASS
2	16QAM	3MHz	PRB#0	19185	22.88	PASS
2	16QAM	3MHz	FRB#0	19185	21.77	PASS
2	QPSK	5MHz	1RB#0	18625	23.66	PASS
2	QPSK	5MHz	1RB#MAX	18625	23.50	PASS
2	QPSK	5MHz	PRB#0	18625	23.50	PASS
2	QPSK	5MHz	FRB#0	18625	22.62	PASS
2	16QAM	5MHz	1RB#0	18625	22.80	PASS
2	16QAM	5MHz	PRB#0	18625	22.68	PASS
2	16QAM	5MHz	FRB#0	18625	21.80	PASS
2	QPSK	5MHz	1RB#0	18900	23.56	PASS
2	QPSK	5MHz	1RB#MAX	18900	23.47	PASS
2	QPSK	5MHz	PRB#0	18900	23.47	PASS
2	QPSK	5MHz	FRB#0	18900	22.48	PASS
2	16QAM	5MHz	1RB#0	18900	22.59	PASS
2	16QAM	5MHz	PRB#0	18900	22.60	PASS
2	16QAM	5MHz	FRB#0	18900	21.51	PASS
2	QPSK	5MHz	1RB#0	19175	23.84	PASS
2	QPSK	5MHz	1RB#MAX	19175	23.61	PASS
2	QPSK	5MHz	PRB#0	19175	23.61	PASS
2	QPSK	5MHz	FRB#0	19175	22.81	PASS
2	16QAM	5MHz	1RB#0	19175	22.94	PASS
2	16QAM	5MHz	PRB#0	19175	22.74	PASS
2	16QAM	5MHz	FRB#0	19175	21.88	PASS
2	QPSK	10MHz	1RB#0	18650	23.85	PASS
2	QPSK	10MHz	1RB#MAX	18650	23.51	PASS
2	QPSK	10MHz	PRB#0	18650	23.51	PASS
2	QPSK	10MHz	FRB#0	18650	22.67	PASS
2	16QAM	10MHz	1RB#0	18650	22.95	PASS
2	16QAM	10MHz	PRB#0	18650	22.68	PASS
2	16QAM	10MHz	FRB#0	18650	21.79	PASS

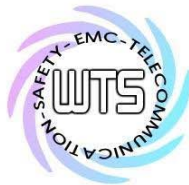


Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

2	QPSK	10MHz	1RB#0	18900	23.72	PASS
2	QPSK	10MHz	1RB#MAX	18900	23.55	PASS
2	QPSK	10MHz	PRB#0	18900	23.55	PASS
2	QPSK	10MHz	FRB#0	18900	22.64	PASS
2	16QAM	10MHz	1RB#0	18900	22.85	PASS
2	16QAM	10MHz	PRB#0	18900	22.66	PASS
2	16QAM	10MHz	FRB#0	18900	21.69	PASS
2	QPSK	10MHz	1RB#0	19150	24.13	PASS
2	QPSK	10MHz	1RB#MAX	19150	23.75	PASS
2	QPSK	10MHz	PRB#0	19150	23.75	PASS
2	QPSK	10MHz	FRB#0	19150	22.89	PASS
2	16QAM	10MHz	1RB#0	19150	23.11	PASS
2	16QAM	10MHz	PRB#0	19150	22.84	PASS
2	16QAM	10MHz	FRB#0	19150	21.96	PASS
2	QPSK	15MHz	1RB#0	18675	23.99	PASS
2	QPSK	15MHz	1RB#MAX	18675	23.49	PASS
2	QPSK	15MHz	PRB#0	18675	23.49	PASS
2	QPSK	15MHz	FRB#0	18675	22.72	PASS
2	16QAM	15MHz	1RB#0	18675	23.08	PASS
2	16QAM	15MHz	PRB#0	18675	22.59	PASS
2	16QAM	15MHz	FRB#0	18675	21.77	PASS
2	QPSK	15MHz	1RB#0	18900	23.88	PASS
2	QPSK	15MHz	1RB#MAX	18900	23.67	PASS
2	QPSK	15MHz	PRB#0	18900	23.67	PASS
2	QPSK	15MHz	FRB#0	18900	22.81	PASS
2	16QAM	15MHz	1RB#0	18900	22.91	PASS
2	16QAM	15MHz	PRB#0	18900	22.76	PASS
2	16QAM	15MHz	FRB#0	18900	21.84	PASS
2	QPSK	15MHz	1RB#0	19125	24.33	PASS
2	QPSK	15MHz	1RB#MAX	19125	23.80	PASS
2	QPSK	15MHz	PRB#0	19125	23.80	PASS
2	QPSK	15MHz	FRB#0	19125	23.00	PASS
2	16QAM	15MHz	1RB#0	19125	23.38	PASS
2	16QAM	15MHz	PRB#0	19125	22.89	PASS
2	16QAM	15MHz	FRB#0	19125	22.05	PASS
2	QPSK	20MHz	1RB#0	18700	24.19	PASS
2	QPSK	20MHz	1RB#MAX	18700	23.46	PASS
2	QPSK	20MHz	PRB#0	18700	23.46	PASS
2	QPSK	20MHz	FRB#0	18700	22.65	PASS
2	16QAM	20MHz	1RB#0	18700	23.21	PASS
2	16QAM	20MHz	PRB#0	18700	22.50	PASS
2	16QAM	20MHz	FRB#0	18700	21.78	PASS
2	QPSK	20MHz	1RB#0	18900	23.78	PASS
2	QPSK	20MHz	1RB#MAX	18900	23.42	PASS
2	QPSK	20MHz	PRB#0	18900	23.42	PASS
2	QPSK	20MHz	FRB#0	18900	22.65	PASS
2	16QAM	20MHz	1RB#0	18900	22.89	PASS

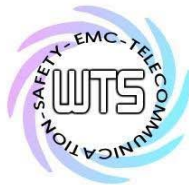


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Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

2	16QAM	20MHz	PRB#0	18900	22.51	PASS
2	16QAM	20MHz	FRB#0	18900	21.74	PASS
2	QPSK	20MHz	1RB#0	19100	24.01	PASS
2	QPSK	20MHz	1RB#MAX	19100	23.48	PASS
2	QPSK	20MHz	PRB#0	19100	23.48	PASS
2	QPSK	20MHz	FRB#0	19100	22.66	PASS
2	16QAM	20MHz	1RB#0	19100	22.94	PASS
2	16QAM	20MHz	PRB#0	19100	22.43	PASS
2	16QAM	20MHz	FRB#0	19100	21.68	PASS
4	QPSK	1.4MHz	1RB#0	18607	23.18	PASS
4	QPSK	1.4MHz	1RB#MAX	19957	23.28	PASS
4	QPSK	1.4MHz	PRB#0	19957	23.28	PASS
4	QPSK	1.4MHz	FRB#0	19957	22.29	PASS
4	16QAM	1.4MHz	1RB#0	19957	22.31	PASS
4	16QAM	1.4MHz	PRB#0	19957	22.35	PASS
4	16QAM	1.4MHz	FRB#0	19957	21.27	PASS
4	QPSK	1.4MHz	1RB#0	19957	23.20	PASS
4	QPSK	1.4MHz	1RB#MAX	20175	23.24	PASS
4	QPSK	1.4MHz	PRB#0	20175	23.24	PASS
4	QPSK	1.4MHz	FRB#0	20175	22.30	PASS
4	16QAM	1.4MHz	1RB#0	20175	22.32	PASS
4	16QAM	1.4MHz	PRB#0	20175	22.22	PASS
4	16QAM	1.4MHz	FRB#0	20175	21.28	PASS
4	QPSK	1.4MHz	1RB#0	20175	23.45	PASS
4	QPSK	1.4MHz	1RB#MAX	20393	23.44	PASS
4	QPSK	1.4MHz	PRB#0	20393	23.44	PASS
4	QPSK	1.4MHz	FRB#0	20393	22.56	PASS
4	16QAM	1.4MHz	1RB#0	20393	22.49	PASS
4	16QAM	1.4MHz	PRB#0	20393	22.47	PASS
4	16QAM	1.4MHz	FRB#0	20393	21.54	PASS
4	QPSK	3MHz	1RB#0	20393	23.30	PASS
4	QPSK	3MHz	1RB#MAX	19965	23.21	PASS
4	QPSK	3MHz	PRB#0	19965	23.21	PASS
4	QPSK	3MHz	FRB#0	19965	22.25	PASS
4	16QAM	3MHz	1RB#0	19965	22.55	PASS
4	16QAM	3MHz	PRB#0	19965	22.51	PASS
4	16QAM	3MHz	FRB#0	19965	21.34	PASS
4	QPSK	3MHz	1RB#0	19965	23.30	PASS
4	QPSK	3MHz	1RB#MAX	20175	23.22	PASS
4	QPSK	3MHz	PRB#0	20175	23.22	PASS
4	QPSK	3MHz	FRB#0	20175	22.30	PASS
4	16QAM	3MHz	1RB#0	20175	22.45	PASS
4	16QAM	3MHz	PRB#0	20175	22.42	PASS
4	16QAM	3MHz	FRB#0	20175	21.33	PASS
4	QPSK	3MHz	1RB#0	20175	23.63	PASS
4	QPSK	3MHz	1RB#MAX	20385	23.50	PASS
4	QPSK	3MHz	PRB#0	20385	23.50	PASS

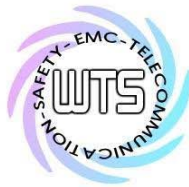


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FCC ID: GX9CTC1052LTE

4	QPSK	3MHz	FRB#0	20385	22.61	PASS
4	16QAM	3MHz	1RB#0	20385	22.76	PASS
4	16QAM	3MHz	PRB#0	20385	22.63	PASS
4	16QAM	3MHz	FRB#0	20385	21.68	PASS
4	QPSK	5MHz	1RB#0	20385	23.40	PASS
4	QPSK	5MHz	1RB#MAX	19975	23.26	PASS
4	QPSK	5MHz	PRB#0	19975	23.26	PASS
4	QPSK	5MHz	FRB#0	19975	22.32	PASS
4	16QAM	5MHz	1RB#0	19975	22.52	PASS
4	16QAM	5MHz	PRB#0	19975	22.38	PASS
4	16QAM	5MHz	FRB#0	19975	21.33	PASS
4	QPSK	5MHz	1RB#0	19975	23.36	PASS
4	QPSK	5MHz	1RB#MAX	20175	23.26	PASS
4	QPSK	5MHz	PRB#0	20175	23.26	PASS
4	QPSK	5MHz	FRB#0	20175	22.33	PASS
4	16QAM	5MHz	1RB#0	20175	22.54	PASS
4	16QAM	5MHz	PRB#0	20175	22.39	PASS
4	16QAM	5MHz	FRB#0	20175	21.37	PASS
4	QPSK	5MHz	1RB#0	20175	23.70	PASS
4	QPSK	5MHz	1RB#MAX	20375	23.54	PASS
4	QPSK	5MHz	PRB#0	20375	23.54	PASS
4	QPSK	5MHz	FRB#0	20375	22.65	PASS
4	16QAM	5MHz	1RB#0	20375	22.75	PASS
4	16QAM	5MHz	PRB#0	20375	22.70	PASS
4	16QAM	5MHz	FRB#0	20375	21.69	PASS
4	QPSK	10MHz	1RB#0	20375	23.51	PASS
4	QPSK	10MHz	1RB#MAX	20000	23.22	PASS
4	QPSK	10MHz	PRB#0	20000	23.22	PASS
4	QPSK	10MHz	FRB#0	20000	22.32	PASS
4	16QAM	10MHz	1RB#0	20000	22.59	PASS
4	16QAM	10MHz	PRB#0	20000	22.27	PASS
4	16QAM	10MHz	FRB#0	20000	21.40	PASS
4	QPSK	10MHz	1RB#0	20000	23.60	PASS
4	QPSK	10MHz	1RB#MAX	20175	23.40	PASS
4	QPSK	10MHz	PRB#0	20175	23.40	PASS
4	QPSK	10MHz	FRB#0	20175	22.44	PASS
4	16QAM	10MHz	1RB#0	20175	22.73	PASS
4	16QAM	10MHz	PRB#0	20175	22.52	PASS
4	16QAM	10MHz	FRB#0	20175	21.56	PASS
4	QPSK	10MHz	1RB#0	20175	23.74	PASS
4	QPSK	10MHz	1RB#MAX	20350	23.56	PASS
4	QPSK	10MHz	PRB#0	20350	23.56	PASS
4	QPSK	10MHz	FRB#0	20350	22.65	PASS
4	16QAM	10MHz	1RB#0	20350	22.83	PASS
4	16QAM	10MHz	PRB#0	20350	22.50	PASS
4	16QAM	10MHz	FRB#0	20350	21.57	PASS
4	QPSK	15MHz	1RB#0	20350	23.65	PASS

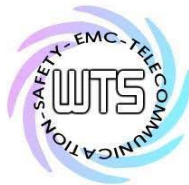


Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

4	QPSK	15MHz	1RB#MAX	20025	23.15	PASS
4	QPSK	15MHz	PRB#0	20025	23.15	PASS
4	QPSK	15MHz	FRB#0	20025	22.32	PASS
4	16QAM	15MHz	1RB#0	20025	22.68	PASS
4	16QAM	15MHz	PRB#0	20025	22.22	PASS
4	16QAM	15MHz	FRB#0	20025	21.34	PASS
4	QPSK	15MHz	1RB#0	20025	23.62	PASS
4	QPSK	15MHz	1RB#MAX	20175	23.31	PASS
4	QPSK	15MHz	PRB#0	20175	23.31	PASS
4	QPSK	15MHz	FRB#0	20175	22.41	PASS
4	16QAM	15MHz	1RB#0	20175	22.75	PASS
4	16QAM	15MHz	PRB#0	20175	22.36	PASS
4	16QAM	15MHz	FRB#0	20175	21.38	PASS
4	QPSK	15MHz	1RB#0	20175	23.79	PASS
4	QPSK	15MHz	1RB#MAX	20325	23.56	PASS
4	QPSK	15MHz	PRB#0	20325	23.56	PASS
4	QPSK	15MHz	FRB#0	20325	22.67	PASS
4	16QAM	15MHz	1RB#0	20325	22.84	PASS
4	16QAM	15MHz	PRB#0	20325	22.61	PASS
4	16QAM	15MHz	FRB#0	20325	21.66	PASS
4	QPSK	20MHz	1RB#0	20325	23.73	PASS
4	QPSK	20MHz	1RB#MAX	20050	23.08	PASS
4	QPSK	20MHz	PRB#0	20050	23.08	PASS
4	QPSK	20MHz	FRB#0	20050	22.29	PASS
4	16QAM	20MHz	1RB#0	20050	22.79	PASS
4	16QAM	20MHz	PRB#0	20050	22.24	PASS
4	16QAM	20MHz	FRB#0	20050	21.37	PASS
4	QPSK	20MHz	1RB#0	20050	23.75	PASS
4	QPSK	20MHz	1RB#MAX	20175	23.32	PASS
4	QPSK	20MHz	PRB#0	20175	23.32	PASS
4	QPSK	20MHz	FRB#0	20175	22.47	PASS
4	16QAM	20MHz	1RB#0	20175	22.87	PASS
4	16QAM	20MHz	PRB#0	20175	22.41	PASS
4	16QAM	20MHz	FRB#0	20175	21.47	PASS
4	QPSK	20MHz	1RB#0	20175	23.82	PASS
4	QPSK	20MHz	1RB#MAX	20300	23.44	PASS
4	QPSK	20MHz	PRB#0	20300	23.44	PASS
4	QPSK	20MHz	FRB#0	20300	22.64	PASS
4	16QAM	20MHz	1RB#0	20300	22.88	PASS
4	16QAM	20MHz	PRB#0	20300	22.59	PASS
4	16QAM	20MHz	FRB#0	20300	21.60	PASS
5	QPSK	1.4MHz	1RB#0	20407	23.24	PASS
5	QPSK	1.4MHz	1RB#MAX	20407	23.23	PASS
5	QPSK	1.4MHz	PRB#0	20407	23.23	PASS
5	QPSK	1.4MHz	FRB#0	20407	22.39	PASS
5	16QAM	1.4MHz	1RB#0	20407	22.38	PASS
5	16QAM	1.4MHz	PRB#0	20407	22.42	PASS

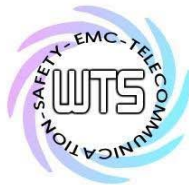


Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

5	16QAM	1.4MHz	FRB#0	20407	21.47	PASS
5	QPSK	1.4MHz	1RB#0	20525	23.24	PASS
5	QPSK	1.4MHz	1RB#MAX	20525	23.20	PASS
5	QPSK	1.4MHz	PRB#0	20525	23.20	PASS
5	QPSK	1.4MHz	FRB#0	20525	22.26	PASS
5	16QAM	1.4MHz	1RB#0	20525	22.28	PASS
5	16QAM	1.4MHz	PRB#0	20525	22.23	PASS
5	16QAM	1.4MHz	FRB#0	20525	21.32	PASS
5	QPSK	1.4MHz	1RB#0	20643	23.00	PASS
5	QPSK	1.4MHz	1RB#MAX	20643	23.01	PASS
5	QPSK	1.4MHz	PRB#0	20643	23.01	PASS
5	QPSK	1.4MHz	FRB#0	20643	22.08	PASS
5	16QAM	1.4MHz	1RB#0	20643	22.17	PASS
5	16QAM	1.4MHz	PRB#0	20643	22.17	PASS
5	16QAM	1.4MHz	FRB#0	20643	21.21	PASS
5	QPSK	3MHz	1RB#0	20415	23.35	PASS
5	QPSK	3MHz	1RB#MAX	20415	23.28	PASS
5	QPSK	3MHz	PRB#0	20415	23.28	PASS
5	QPSK	3MHz	FRB#0	20415	22.26	PASS
5	16QAM	3MHz	1RB#0	20415	22.41	PASS
5	16QAM	3MHz	PRB#0	20415	22.40	PASS
5	16QAM	3MHz	FRB#0	20415	21.39	PASS
5	QPSK	3MHz	1RB#0	20525	23.29	PASS
5	QPSK	3MHz	1RB#MAX	20525	23.22	PASS
5	QPSK	3MHz	PRB#0	20525	23.22	PASS
5	QPSK	3MHz	FRB#0	20525	22.20	PASS
5	16QAM	3MHz	1RB#0	20525	22.58	PASS
5	16QAM	3MHz	PRB#0	20525	22.40	PASS
5	16QAM	3MHz	FRB#0	20525	21.41	PASS
5	QPSK	3MHz	1RB#0	20635	23.13	PASS
5	QPSK	3MHz	1RB#MAX	20635	23.02	PASS
5	QPSK	3MHz	PRB#0	20635	23.02	PASS
5	QPSK	3MHz	FRB#0	20635	22.13	PASS
5	16QAM	3MHz	1RB#0	20635	22.15	PASS
5	16QAM	3MHz	PRB#0	20635	22.12	PASS
5	16QAM	3MHz	FRB#0	20635	21.12	PASS
5	QPSK	5MHz	1RB#0	20425	23.26	PASS
5	QPSK	5MHz	1RB#MAX	20425	23.21	PASS
5	QPSK	5MHz	PRB#0	20425	23.21	PASS
5	QPSK	5MHz	FRB#0	20425	22.33	PASS
5	16QAM	5MHz	1RB#0	20425	22.41	PASS
5	16QAM	5MHz	PRB#0	20425	22.30	PASS
5	16QAM	5MHz	FRB#0	20425	21.48	PASS
5	QPSK	5MHz	1RB#0	20525	23.24	PASS
5	QPSK	5MHz	1RB#MAX	20525	23.19	PASS
5	QPSK	5MHz	PRB#0	20525	23.19	PASS
5	QPSK	5MHz	FRB#0	20525	22.24	PASS

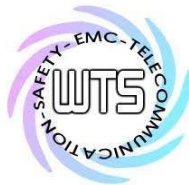


Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

5	16QAM	5MHz	1RB#0	20525	22.33	PASS
5	16QAM	5MHz	PRB#0	20525	22.26	PASS
5	16QAM	5MHz	FRB#0	20525	21.41	PASS
5	QPSK	5MHz	1RB#0	20625	23.04	PASS
5	QPSK	5MHz	1RB#MAX	20625	22.93	PASS
5	QPSK	5MHz	PRB#0	20625	22.93	PASS
5	QPSK	5MHz	FRB#0	20625	22.05	PASS
5	16QAM	5MHz	1RB#0	20625	22.20	PASS
5	16QAM	5MHz	PRB#0	20625	22.12	PASS
5	16QAM	5MHz	FRB#0	20625	21.18	PASS
5	QPSK	10MHz	1RB#0	20450	23.37	PASS
5	QPSK	10MHz	1RB#MAX	20450	23.26	PASS
5	QPSK	10MHz	PRB#0	20450	23.26	PASS
5	QPSK	10MHz	FRB#0	20450	22.33	PASS
5	16QAM	10MHz	1RB#0	20450	22.43	PASS
5	16QAM	10MHz	PRB#0	20450	22.33	PASS
5	16QAM	10MHz	FRB#0	20450	21.44	PASS
5	QPSK	10MHz	1RB#0	20525	23.28	PASS
5	QPSK	10MHz	1RB#MAX	20525	23.09	PASS
5	QPSK	10MHz	PRB#0	20525	23.09	PASS
5	QPSK	10MHz	FRB#0	20525	22.22	PASS
5	16QAM	10MHz	1RB#0	20525	22.44	PASS
5	16QAM	10MHz	PRB#0	20525	22.24	PASS
5	16QAM	10MHz	FRB#0	20525	21.36	PASS
5	QPSK	10MHz	1RB#0	20600	23.17	PASS
5	QPSK	10MHz	1RB#MAX	20600	23.01	PASS
5	QPSK	10MHz	PRB#0	20600	23.01	PASS
5	QPSK	10MHz	FRB#0	20600	22.16	PASS
5	16QAM	10MHz	1RB#0	20600	22.32	PASS
5	16QAM	10MHz	PRB#0	20600	22.08	PASS
5	16QAM	10MHz	FRB#0	20600	21.24	PASS
17	QPSK	5MHz	1RB#0	23755	23.17	PASS
17	QPSK	5MHz	1RB#MAX	23755	23.12	PASS
17	QPSK	5MHz	PRB#0	23755	23.12	PASS
17	QPSK	5MHz	FRB#0	23755	22.09	PASS
17	16QAM	5MHz	1RB#0	23755	22.09	PASS
17	16QAM	5MHz	PRB#0	23755	22.11	PASS
17	16QAM	5MHz	FRB#0	23755	21.28	PASS
17	QPSK	5MHz	1RB#0	23790	23.12	PASS
17	QPSK	5MHz	1RB#MAX	23790	23.14	PASS
17	QPSK	5MHz	PRB#0	23790	23.14	PASS
17	QPSK	5MHz	FRB#0	23790	22.07	PASS
17	16QAM	5MHz	1RB#0	23790	22.15	PASS
17	16QAM	5MHz	PRB#0	23790	22.14	PASS
17	16QAM	5MHz	FRB#0	23790	21.32	PASS
17	QPSK	5MHz	1RB#0	23825	23.16	PASS
17	QPSK	5MHz	1RB#MAX	23825	23.03	PASS

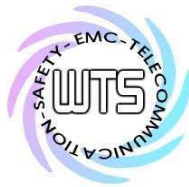


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FCC ID: GX9CTC1052LTE

17	QPSK	5MHz	PRB#0	23825	23.03	PASS
17	QPSK	5MHz	FRB#0	23825	22.01	PASS
17	16QAM	5MHz	1RB#0	23825	22.17	PASS
17	16QAM	5MHz	PRB#0	23825	22.11	PASS
17	16QAM	5MHz	FRB#0	23825	21.30	PASS
17	QPSK	10MHz	1RB#0	23780	23.05	PASS
17	QPSK	10MHz	1RB#MAX	23780	23.10	PASS
17	QPSK	10MHz	PRB#0	23780	23.10	PASS
17	QPSK	10MHz	FRB#0	23780	22.05	PASS
17	16QAM	10MHz	1RB#0	23780	22.12	PASS
17	16QAM	10MHz	PRB#0	23780	22.14	PASS
17	16QAM	10MHz	FRB#0	23780	21.22	PASS
17	QPSK	10MHz	1RB#0	23790	23.16	PASS
17	QPSK	10MHz	1RB#MAX	23790	23.15	PASS
17	QPSK	10MHz	PRB#0	23790	23.15	PASS
17	QPSK	10MHz	FRB#0	23790	22.13	PASS
17	16QAM	10MHz	1RB#0	23790	22.18	PASS
17	16QAM	10MHz	PRB#0	23790	22.13	PASS
17	16QAM	10MHz	FRB#0	23790	21.22	PASS
17	QPSK	10MHz	1RB#0	23800	23.10	PASS
17	QPSK	10MHz	1RB#MAX	23800	23.01	PASS
17	QPSK	10MHz	PRB#0	23800	23.01	PASS
17	QPSK	10MHz	FRB#0	23800	22.07	PASS
17	16QAM	10MHz	1RB#0	23800	22.06	PASS
17	16QAM	10MHz	PRB#0	23800	22.14	PASS
17	16QAM	10MHz	FRB#0	23800	21.18	PASS



Worldwide Testing Services(Taiwan) Co., Ltd.

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- ☐ Conducted Measurement
☒ Radiated Measurement

WCDMA

Band 2

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
1853.422	20.04	22.19	33	Pass
1878.778	20.21	22.36	33	Pass
1906.177	20.36	22.51	33	Pass

Band 5

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
827.3720	19.52	21.67	38.45	Pass
835.7483	19.58	21.73	38.45	Pass
847.7523	19.51	21.66	38.45	Pass

LTE

Band 2

1.4 MHz

QPSK

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
1850.343	25.30	27.45	33	Pass
1879.443	24.26	26.41	33	Pass
1908.959	23.78	25.93	33	Pass

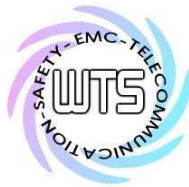
16QAM

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
1850.183	26.15	28.30	33	Pass
1879.732	24.72	26.87	33	Pass
1908.871	24.41	26.56	33	Pass

20 MHz

QPSK

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
1850.742	25.72	27.87	33	Pass
1871.543	27.29	29.44	33	Pass
1891.864	25.50	27.65	33	Pass



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16QAM

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
1851.303	25.72	27.87	33	Pass
1872.826	27.71	29.86	33	Pass
1891.222	25.50	27.65	33	Pass

Band 4

1.4 MHz

QPSK

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
1710.215	22.13	24.28	30	Pass
1732.039	20.33	22.48	30	Pass
1753.927	20.46	22.61	30	Pass

16QAM

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
1710.247	22.13	24.28	30	Pass
1732.175	20.39	22.54	30	Pass
1753.879	19.87	22.02	30	Pass

20 MHz

QPSK

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
1710.902	20.45	22.60	30	Pass
1723.161	19.18	21.33	30	Pass
1735.902	19.39	21.54	30	Pass

16QAM

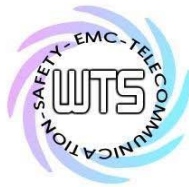
Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
1710.501	20.22	22.37	30	Pass
1724.684	18.59	20.74	30	Pass
1735.822	20.02	22.17	30	Pass

Band 5

1.4 MHz

QPSK

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
824.3914	25.42	27.57	38.45	Pass
836.0872	25.19	27.34	38.45	Pass
847.9513	24.21	26.36	38.45	Pass



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FCC ID: GX9CTC1052LTE

16QAM

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
824.1990	26.77	28.92	38.45	Pass
836.0391	26.01	28.16	38.45	Pass
848.0154	25.49	27.64	38.45	Pass

10 MHz QPSK

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
823.9900	25.67	27.82	38.45	Pass
832.6924	24.77	26.92	38.45	Pass
840.1924	25.14	27.29	38.45	Pass

16QAM

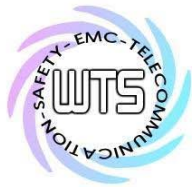
Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
705.3327	26.19	28.34	38.45	Pass
705.8918	26.03	28.18	38.45	Pass
707.6934	25.78	27.93	38.45	Pass

Band 17 5 MHz QPSK

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
704.2655	25.01	27.16	34.77	Pass
707.4850	24.82	26.97	34.77	Pass
711.1854	24.67	26.82	34.77	Pass

16QAM

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
704.2054	26.32	28.47	34.77	Pass
707.6052	25.66	27.81	34.77	Pass
711.2054	25.86	28.01	34.77	Pass



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10 MHz

QPSK

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
704.2103	25.01	27.16	34.77	Pass
706.2525	24.89	27.04	34.77	Pass
706.1703	22.79	24.94	34.77	Pass

16QAM

Frequency (MHz)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Result
705.3327	26.19	28.34	34.77	Pass
705.8918	26.03	28.18	34.77	Pass
707.6934	25.78	27.93	34.77	Pass

Test equipment: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 062, ETSTW-RE 142,
ETSTW-RE 147, ETSTW-GSM 002, ETSTW-GSM 004

Note: Please refer to appendix for plot data.

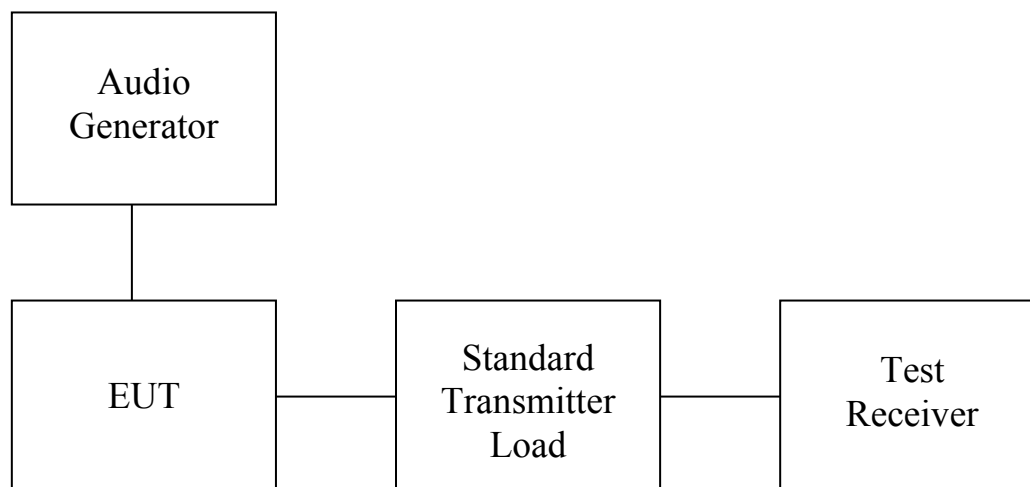
Report Number: W6M21711-17577-P-247

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4. Modulation Characteristics

4.1 Test procedure

- ☐ A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted.
The audio signal generator is connected to the audio input of the EUT with its full rating. The modulation response is measured at certain modulation frequencies, related to 1000Hz reference signal. Tests are performed for positive and negative modulation.
- ☐ Equipment which employs modulation Limiting: A curve or family of curves showing the percentage of modulation versus the modulation input voltage shall be supplied. The audio signal generator is connected to the audio input of the EUT with its full rating. The modulation limiting is measured at certain modulation frequencies from 100Hz to 15kHz.



4.2 Test Results

For digital modulation employed, this test item is not applicable.

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FCC ID: GX9CTC1052LTE

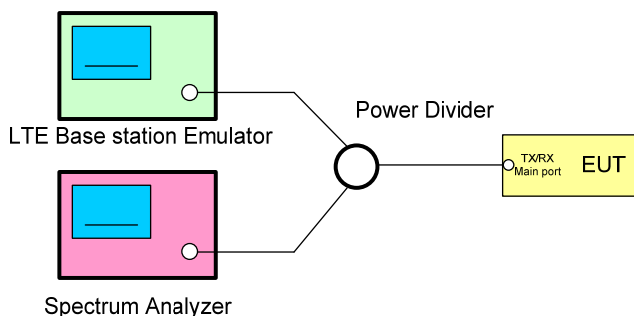
5. Peak-to-Average Ratio

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

5.1 Test procedure

1. The EUT main port was connected to the LTE emulator and spectrum analyzer via power divider
2. For Spectrum Analyzer setting :
3. Set the CCDF function in spectrum analyzer.
4. Set RBW $\geq$ signal's occupied bandwidth.
5. Set the number of counts to a value that stabilizes the measured CCDF curve.
6. Set the measurement interval (sweep time) to 1ms.
7. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1%
8. Record the deviation as Peak to Average Ratio.

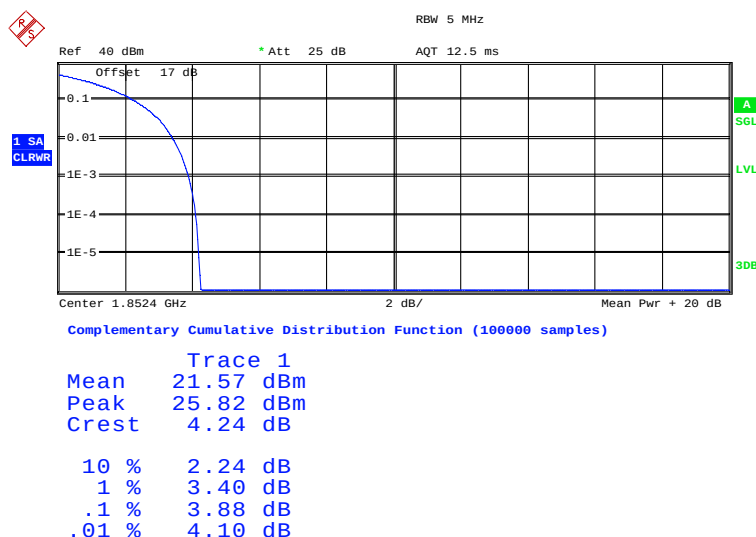
5.2 Test Set up



5.3 Test Results

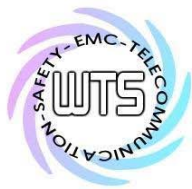
WCDMA

Band 2



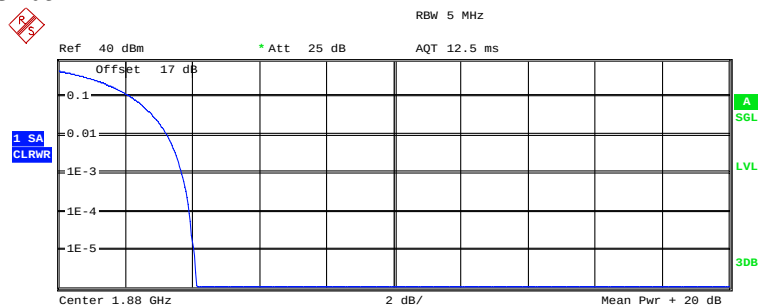
PEAK to AVERAGE RATIO BAND2 CH9262

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Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



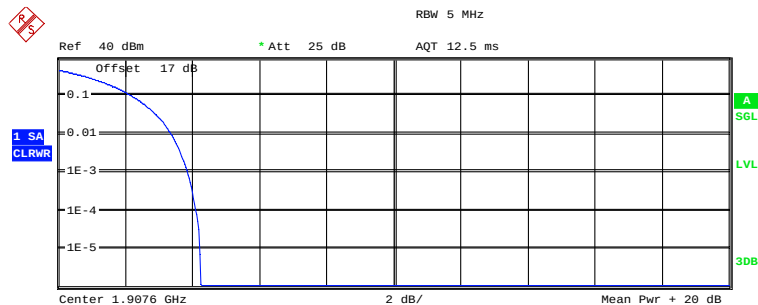
Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean	21.56 dBm
Peak	25.67 dBm
Crest	4.11 dB
10 %	2.18 dB
1 %	3.24 dB
.1 %	3.69 dB
.01 %	3.91 dB

PEAK to AVERAGE RATIO BAND2 CH9400

Date: 27.NOV.2017 15:25:37



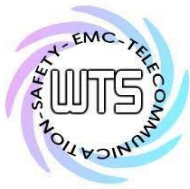
Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean	21.30 dBm
Peak	25.53 dBm
Crest	4.23 dB
10 %	2.18 dB
1 %	3.37 dB
.1 %	3.85 dB
.01 %	4.10 dB

PEAK to AVERAGE RATIO BAND2 CH9538

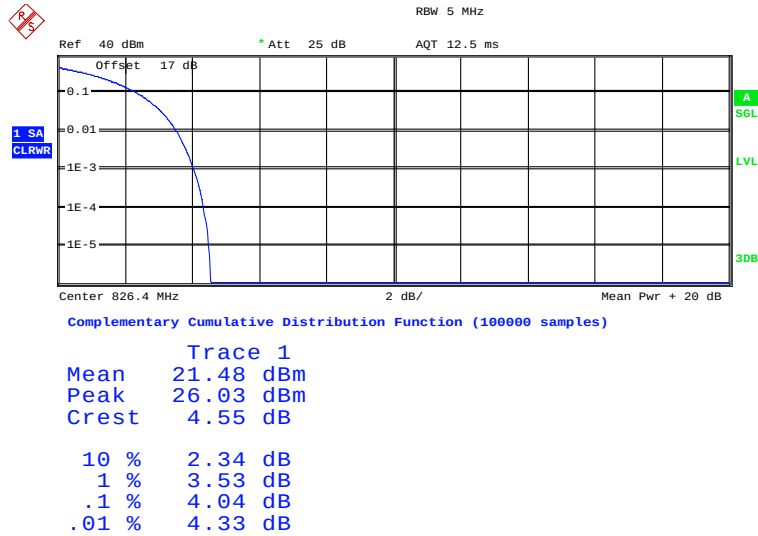
Date: 27.NOV.2017 15:26:18



Report Number: W6M21711-17577-P-247

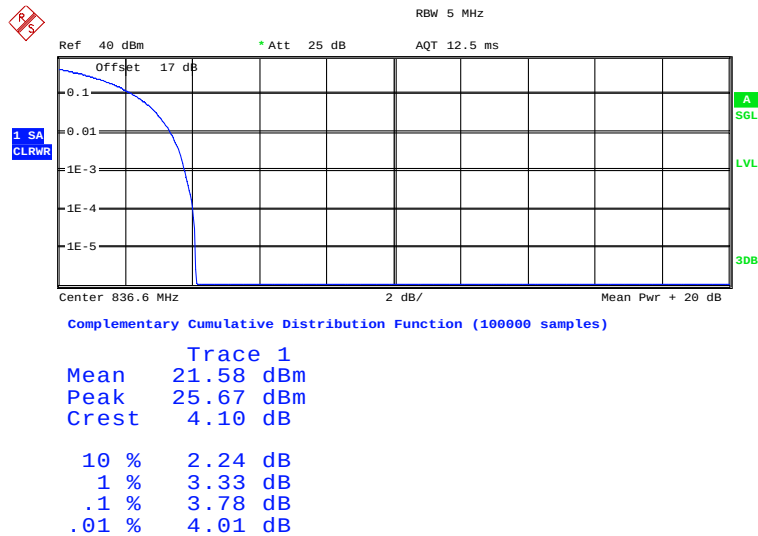
FCC ID: GX9CTC1052LTE

Band 5



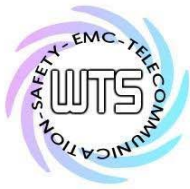
PEAK to AVERAGE RATIO BAND5 CH4132

Date: 27.NOV.2017 15:08:50



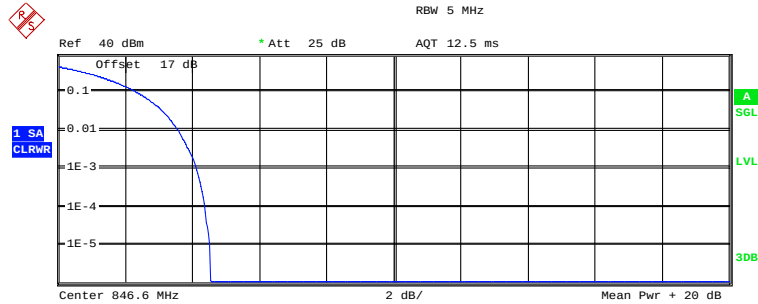
PEAK to AVERAGE RATIO BAND5 CH4183

Date: 27.NOV.2017 15:08:17



Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



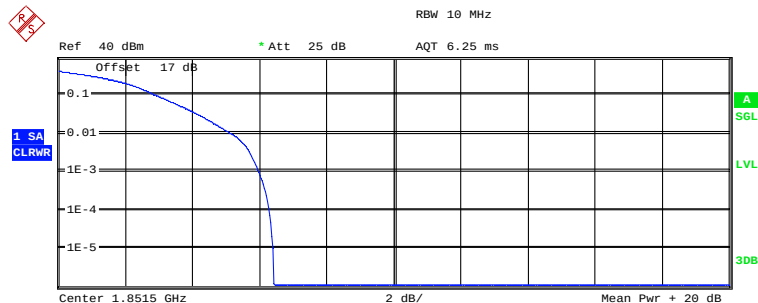
Complementary Cumulative Distribution Function (100000 samples)

Trace 1
Mean 21.41 dBm
Peak 25.96 dBm
Crest 4.55 dB

10 % 2.34 dB
1 % 3.56 dB
.1 % 4.13 dB
.01 % 4.36 dB

PEAK to AVERAGE RATIO BAND5 CH4233
Date: 27.NOV.2017 15:07:35

LTE
Band 2
16QAM

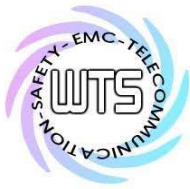


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1
Mean 20.91 dBm
Peak 27.35 dBm
Crest 6.43 dB

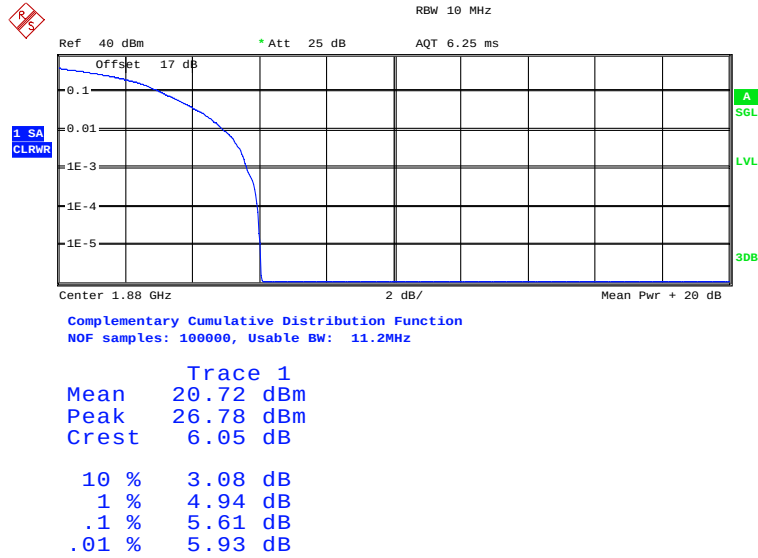
10 % 2.92 dB
1 % 5.16 dB
.1 % 5.99 dB
.01 % 6.28 dB

Peak to Average Ratio BAND2 16QAM 1RB CH18615
Date: 22.NOV.2017 17:36:48

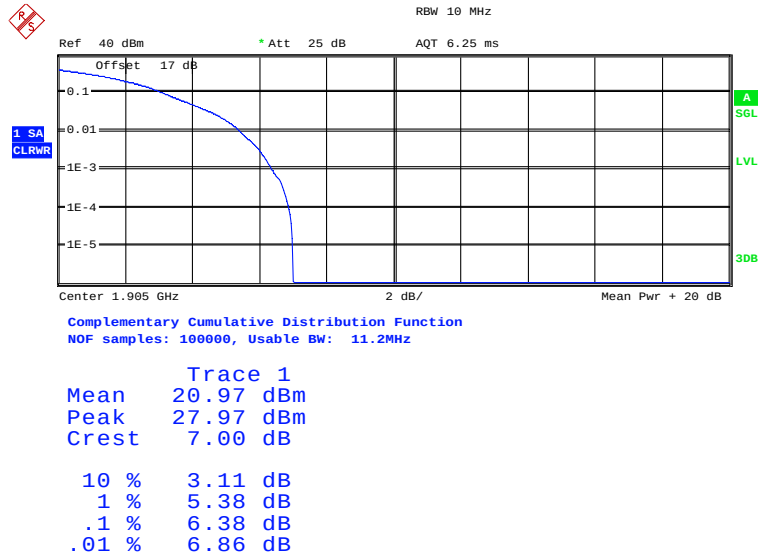


Report Number: W6M21711-17577-P-247

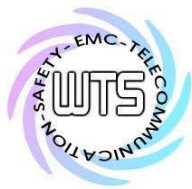
FCC ID: GX9CTC1052LTE



Peak to Average Ratio BAND2 16QAM 1RB CH18900
Date: 22.NOV.2017 17:38:17

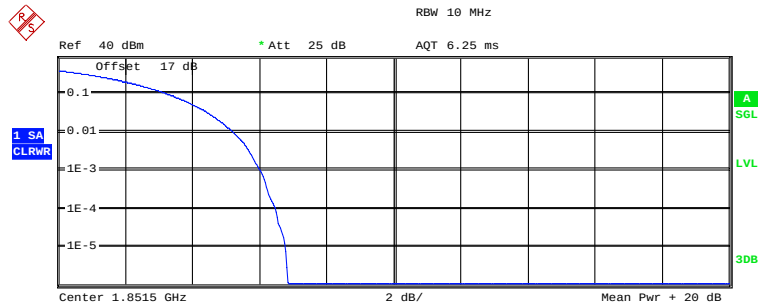


Peak to Average Ratio BAND2 16QAM 1RB CH19150
Date: 22.NOV.2017 17:39:33



Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

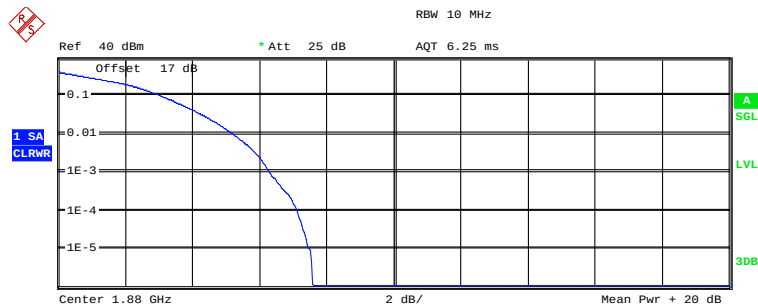


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1
Mean 18.25 dBm
Peak 25.09 dBm
Crest 6.84 dB

10 % 3.27 dB
1 % 5.22 dB
.1 % 6.03 dB
.01 % 6.47 dB

Peak to Average Ratio BAND2 16QAM FRB CH18615
Date: 22.NOV.2017 17:37:18

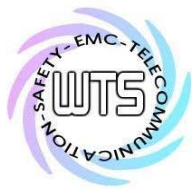


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1
Mean 19.55 dBm
Peak 27.13 dBm
Crest 7.58 dB

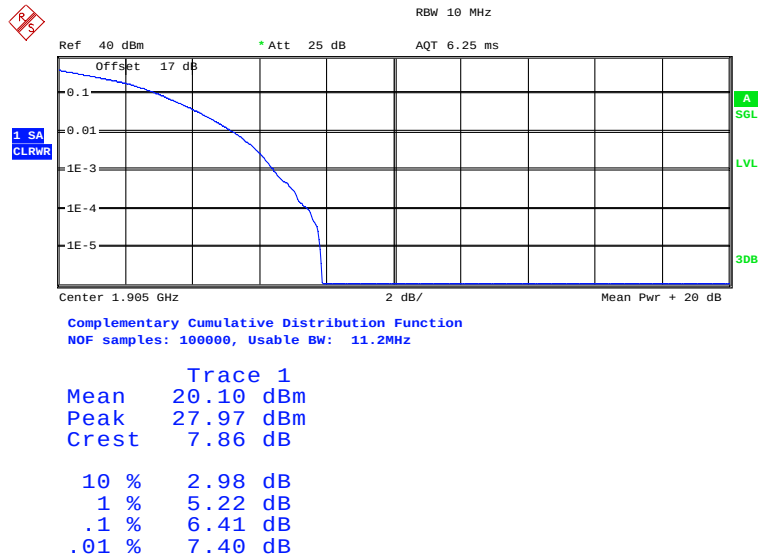
10 % 3.08 dB
1 % 5.19 dB
.1 % 6.28 dB
.01 % 7.12 dB

Peak to Average Ratio BAND2 16QAM FRB CH18900
Date: 22.NOV.2017 17:37:57



Report Number: W6M21711-17577-P-247

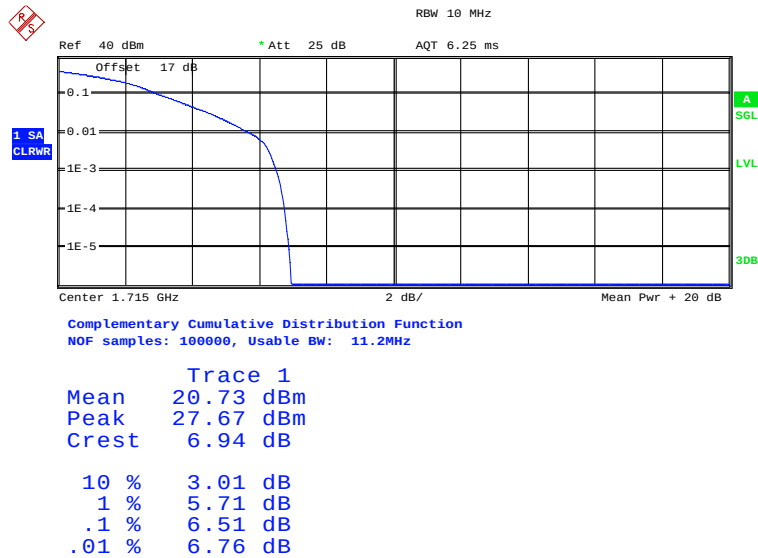
FCC ID: GX9CTC1052LTE



Peak to Average Ratio BAND2 16QAM FRB CH19150

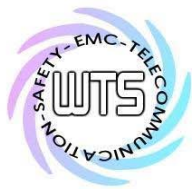
Date: 22.NOV.2017 17:40:07

Band 4
16QAM



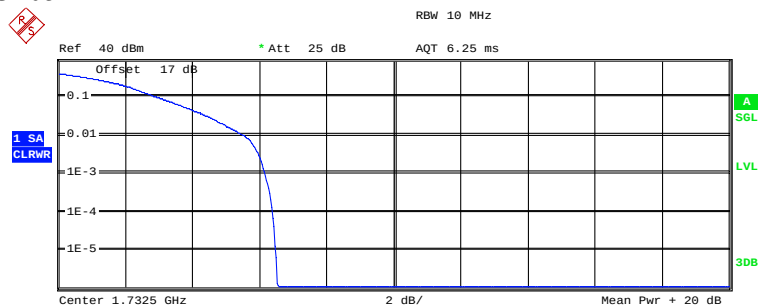
Peak to Average Ratio BAND4 16QAM 1RB CH20000

Date: 22.NOV.2017 17:50:05



Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

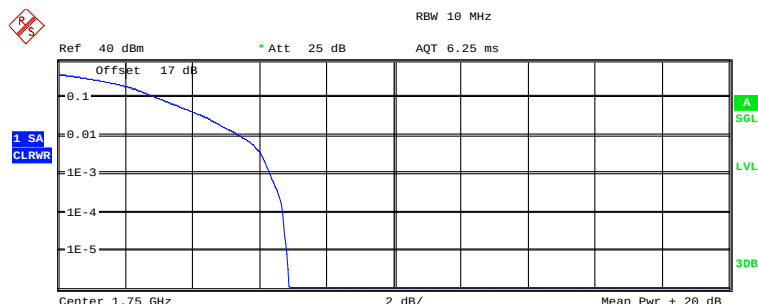


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1
Mean 21.12 dBm
Peak 27.66 dBm
Crest 6.54 dB

10 % 2.95 dB
1 % 5.51 dB
.1 % 6.15 dB
.01 % 6.38 dB

Peak to Average Ratio BAND4 16QAM 1RB CH20175
Date: 22.NOV.2017 17:46:04

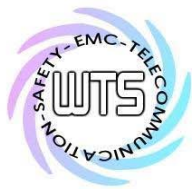


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1
Mean 21.54 dBm
Peak 28.41 dBm
Crest 6.87 dB

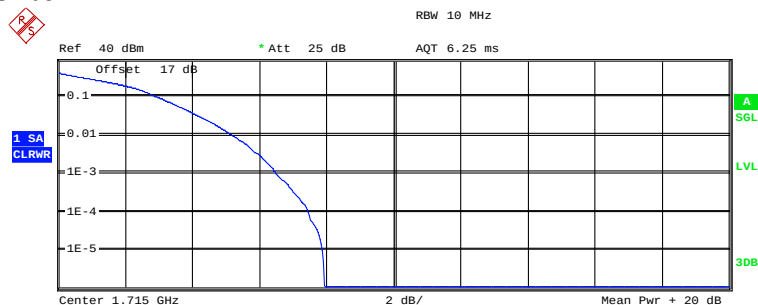
10 % 2.95 dB
1 % 5.42 dB
.1 % 6.31 dB
.01 % 6.70 dB

Peak to Average Ratio BAND4 16QAM 1RB CH20350
Date: 22.NOV.2017 17:51:31



Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

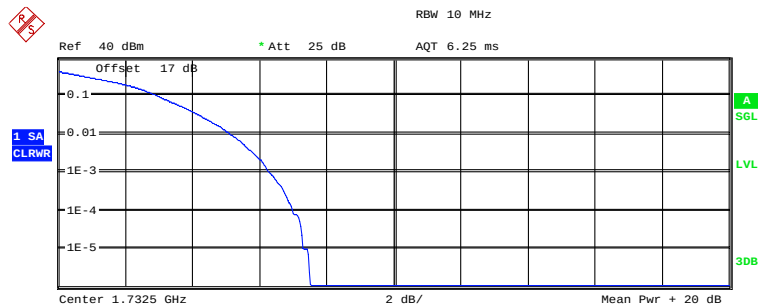


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1
Mean 19.80 dBm
Peak 27.74 dBm
Crest 7.94 dB

10 % 2.95 dB
1 % 5.19 dB
.1 % 6.51 dB
.01 % 7.47 dB

Peak to Average Ratio BAND4 16QAM FRB CH20000
Date: 22.NOV.2017 17:50:35

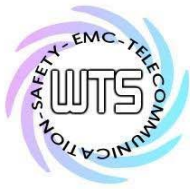


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1
Mean 20.08 dBm
Peak 27.59 dBm
Crest 7.50 dB

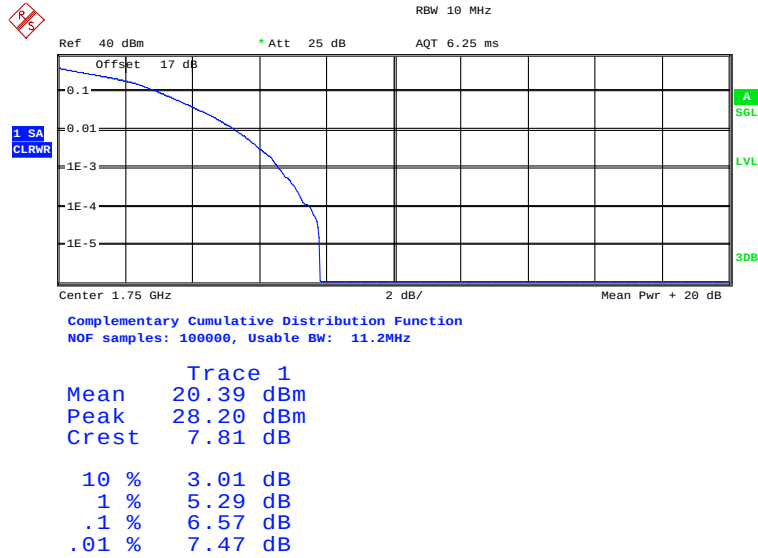
10 % 2.95 dB
1 % 5.13 dB
.1 % 6.28 dB
.01 % 6.99 dB

Peak to Average Ratio BAND4 16QAM FRB CH20175
Date: 22.NOV.2017 17:46:36



Report Number: W6M21711-17577-P-247

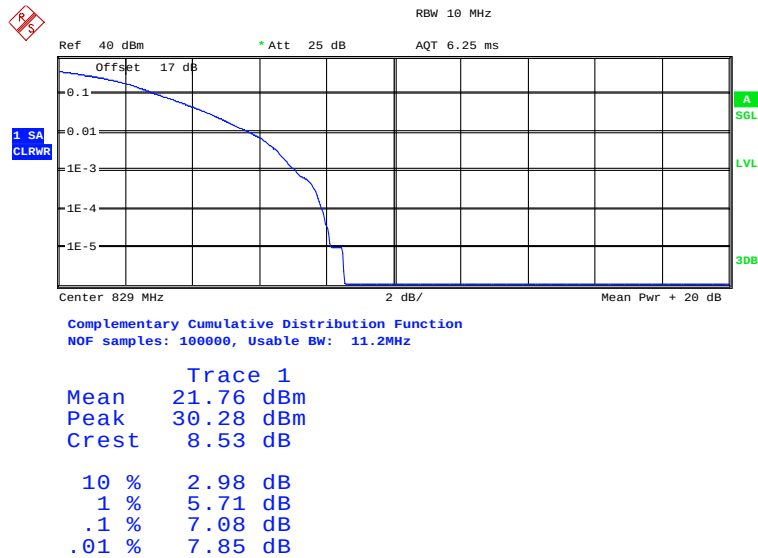
FCC ID: GX9CTC1052LTE



Peak to Average Ratio BAND4 16QAM FRB CH20350

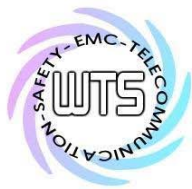
Date: 22.NOV.2017 17:51:08

Band 5
16QAM



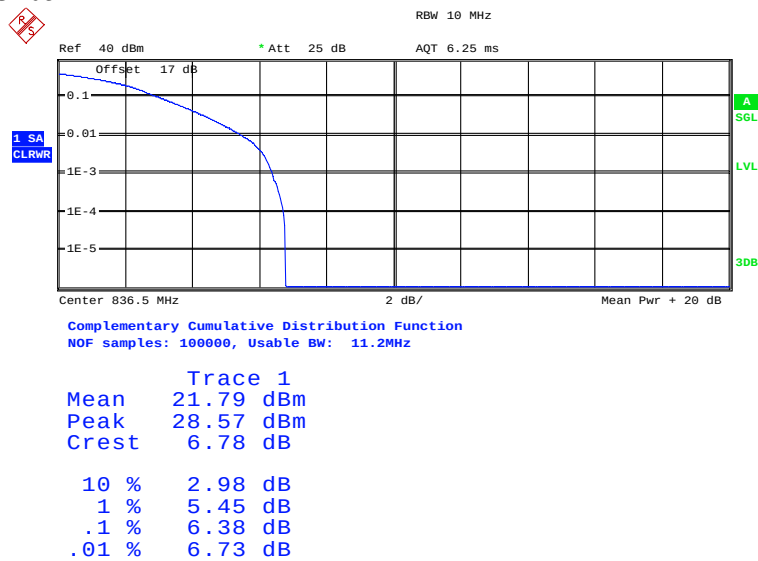
Peak to Average Ratio BAND5 16QAM 1RB CH20450

Date: 22.NOV.2017 17:52:27



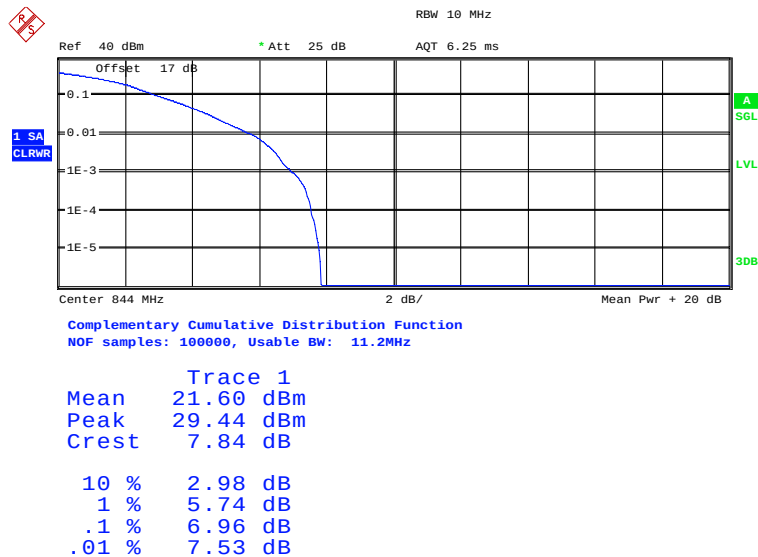
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



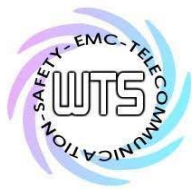
Peak to Average Ratio BAND5 16QAM 1RB CH20525

Date: 22.NOV.2017 17:53:57



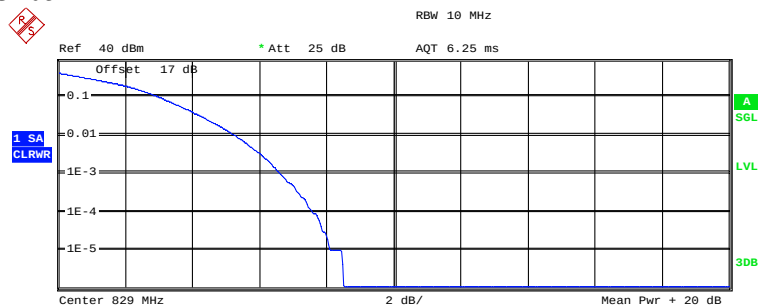
Peak to Average Ratio BAND5 16QAM 1RB CH20600

Date: 22.NOV.2017 17:54:38



Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

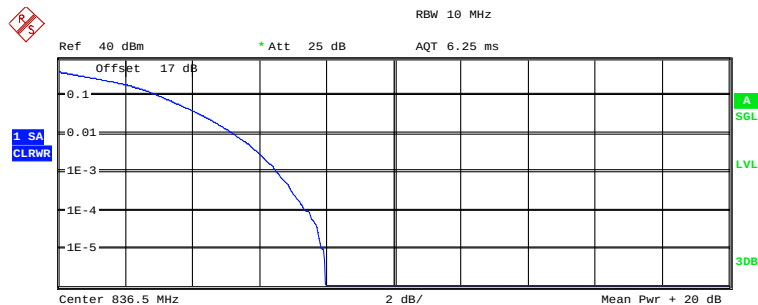


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1
Mean 20.72 dBm
Peak 29.23 dBm
Crest 8.51 dB

10 % 3.01 dB
1 % 5.26 dB
.1 % 6.60 dB
.01 % 7.56 dB

Peak to Average Ratio BAND5 16QAM FRB CH20450
Date: 22.NOV.2017 17:52:54

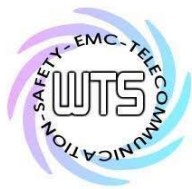


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1
Mean 20.39 dBm
Peak 28.36 dBm
Crest 7.97 dB

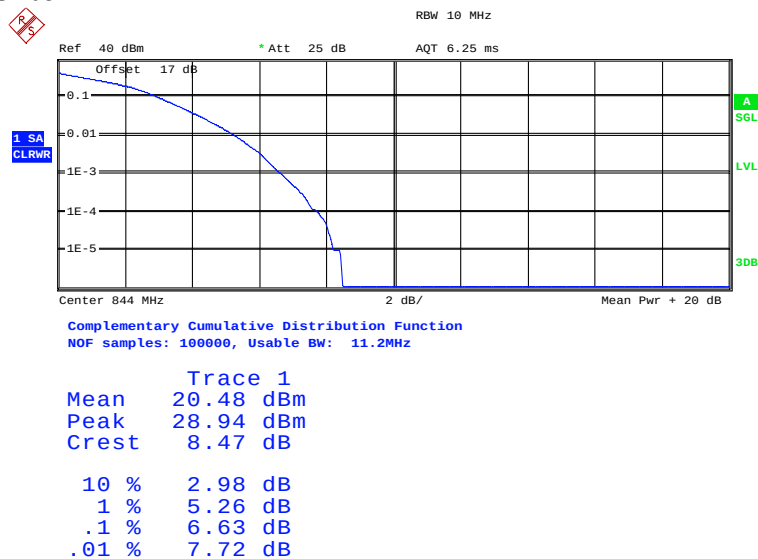
10 % 3.01 dB
1 % 5.22 dB
.1 % 6.51 dB
.01 % 7.40 dB

Peak to Average Ratio BAND5 16QAM FRB CH20525
Date: 22.NOV.2017 17:53:35



Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

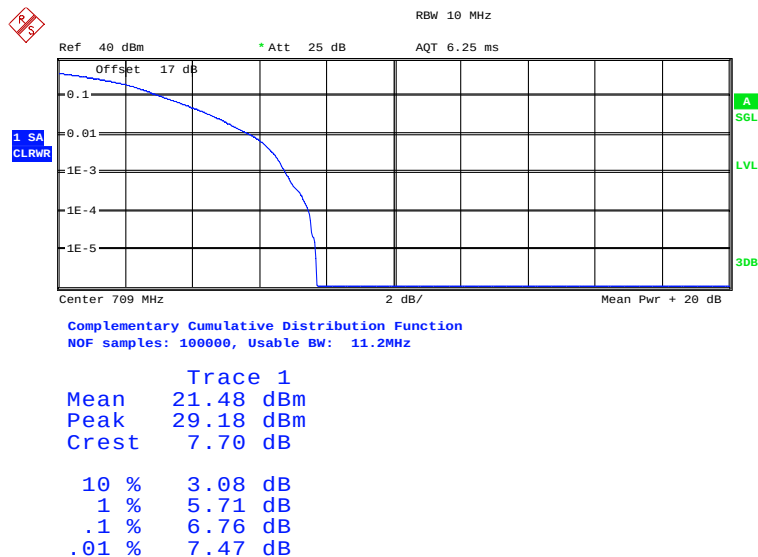


Peak to Average Ratio BAND5 16QAM FRB CH20600

Date: 22.NOV.2017 17:55:15

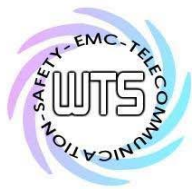
Band 17

16QAM



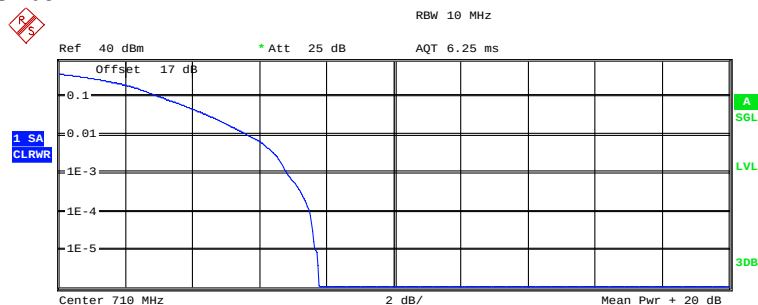
Peak to Average Ratio BAND17 16QAM 1RB CH23780

Date: 22.NOV.2017 17:32:49



Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



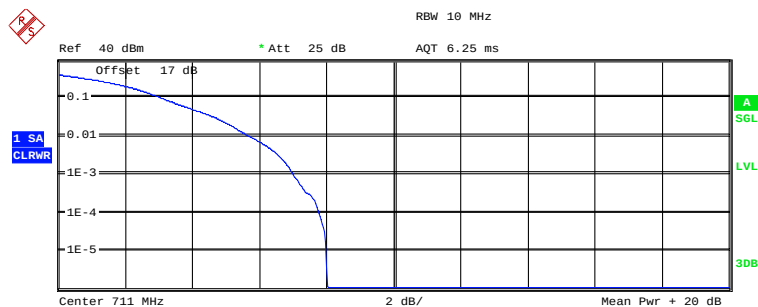
Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1
Mean 21.34 dBm
Peak 29.11 dBm
Crest 7.77 dB

10 % 3.08 dB
1 % 5.67 dB
.1 % 6.83 dB
.01 % 7.50 dB

Peak to Average Ratio BAND17 16QAM 1RB CH23790

Date: 22.NOV.2017 17:31:42



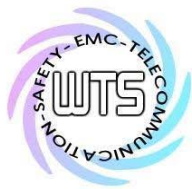
Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1
Mean 21.31 dBm
Peak 29.32 dBm
Crest 8.01 dB

10 % 3.08 dB
1 % 5.67 dB
.1 % 6.99 dB
.01 % 7.79 dB

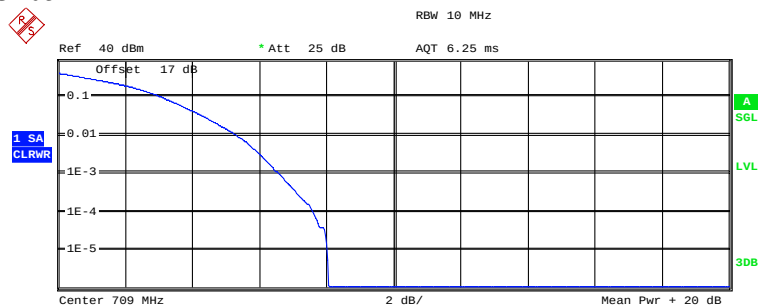
Peak to Average Ratio BAND17 16QAM 1RB CH23800

Date: 22.NOV.2017 17:34:28



Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

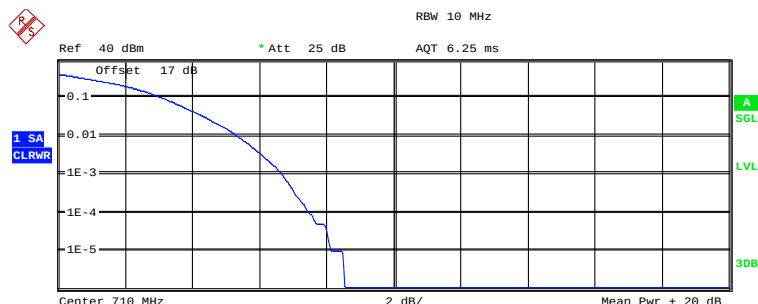


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1
Mean 20.42 dBm
Peak 28.47 dBm
Crest 8.05 dB

10 % 3.08 dB
1 % 5.32 dB
.1 % 6.57 dB
.01 % 7.60 dB

Peak to Average Ratio BAND17 16QAM FRB CH23780
Date: 22.NOV.2017 17:33:17

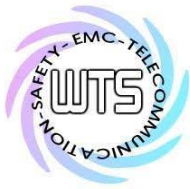


Complementary Cumulative Distribution Function
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1
Mean 20.22 dBm
Peak 28.75 dBm
Crest 8.54 dB

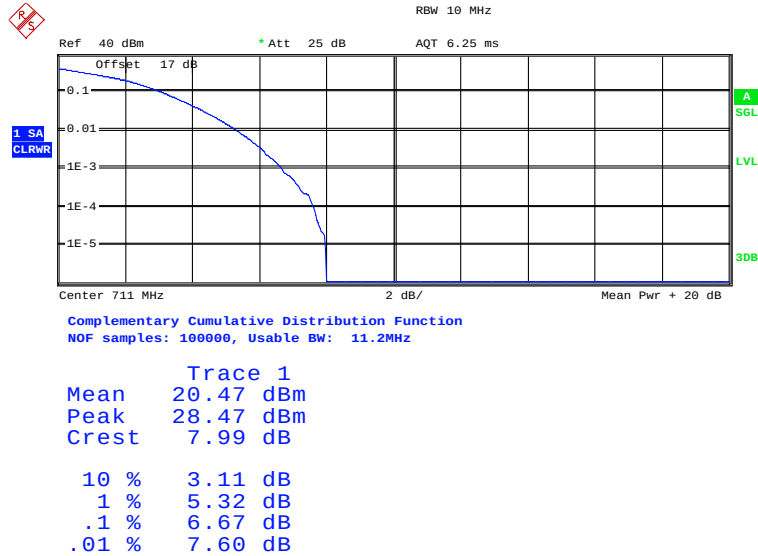
10 % 3.11 dB
1 % 5.32 dB
.1 % 6.67 dB
.01 % 7.47 dB

Peak to Average Ratio BAND17 16QAM FRB CH23790
Date: 22.NOV.2017 17:30:49



Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



Peak to Average Ratio BAND17 16QAM FRB CH23800
Date: 22.NOV.2017 17:33:59

Limit according to FCC §24.232 and §27.50, The peak-to-average ratio(PAR) of the transmission may not exceed 13dB.

Test equipment: ETSTW-RE 055, ETSTW-GSM 004, ETSTW-GSM 023

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

6. Occupied Bandwidth

The occupied bandwidth (OBW) is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to a specified percentage 0.5% of the total mean transmitted power.

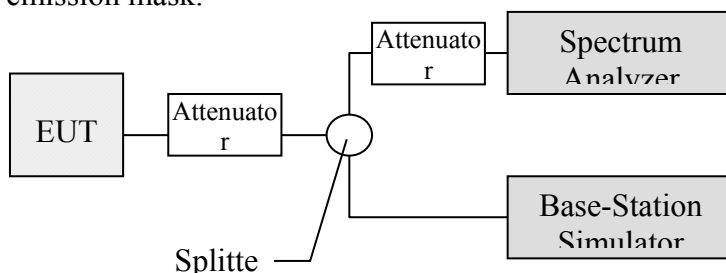
The 26 dB occupied bandwidth is the width of a frequency band such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal 26 dB.

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.

6.1 Test procedure

The RF output of the transceiver was connected as the following figure.

Occupied Bandwidth was measured with a occupied bandwidth function of the analyzer at 99% power was occupied. Then set the spectrum analyzer to cover the upper and lower band edges to measure emission mask.



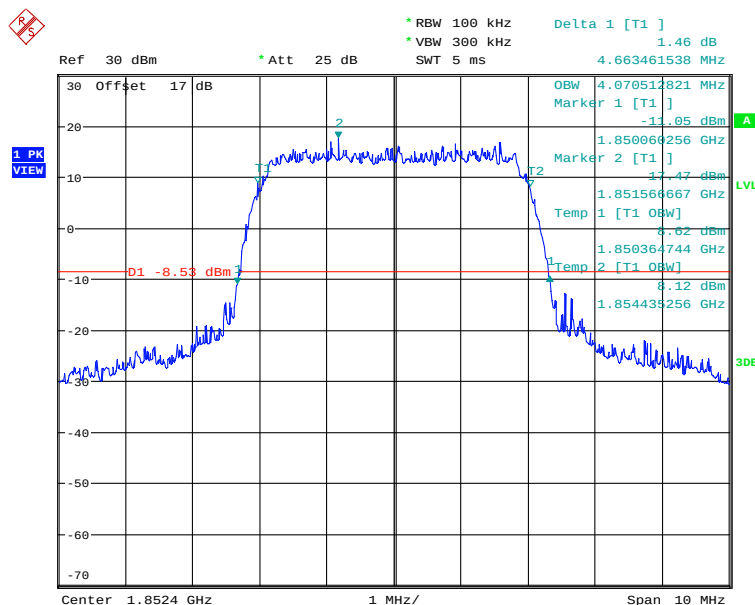
6.2 Test Results

Occupied Channel Bandwidth

WCDMA

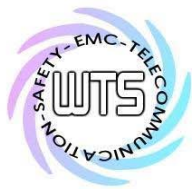
Band 2

5 MHz



99% OBW 26DB BW BAND2 5MHZ CH9262

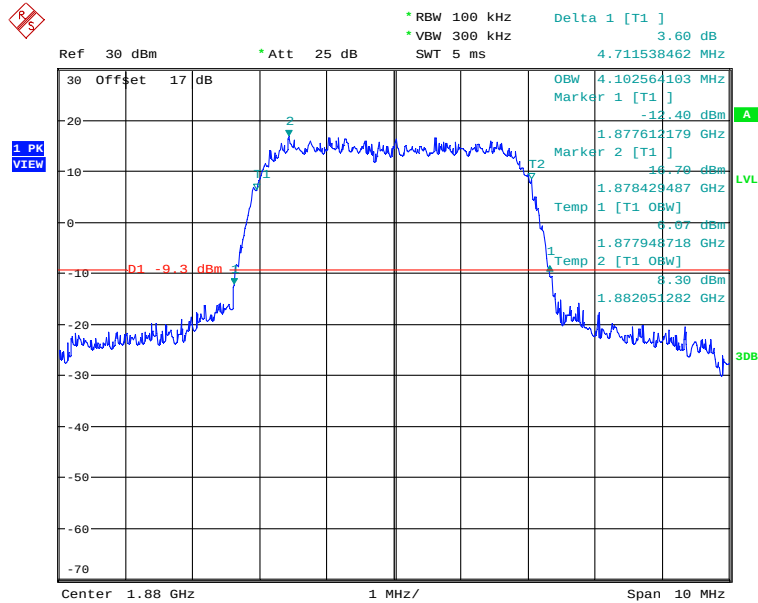
Date: 27.NOV.2017 15:42:33



Worldwide Testing Services(Taiwan) Co., Ltd.

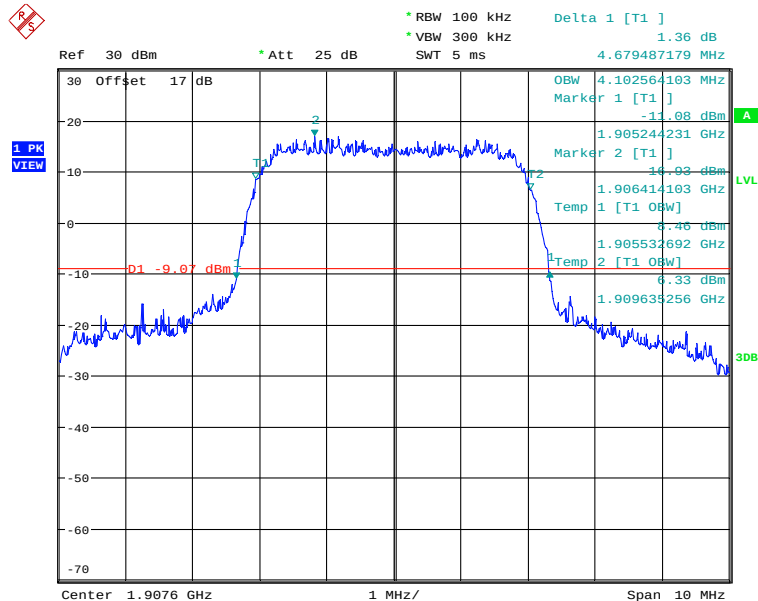
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



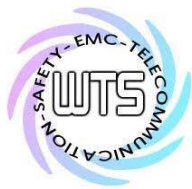
99% OBW 26DB BW BAND2 5MHZ CH9400

Date: 27.NOV.2017 15:41:11



99% OBW 26DB BW BAND2 5MHZ CH9538

Date: 27.NOV.2017 15:39:58



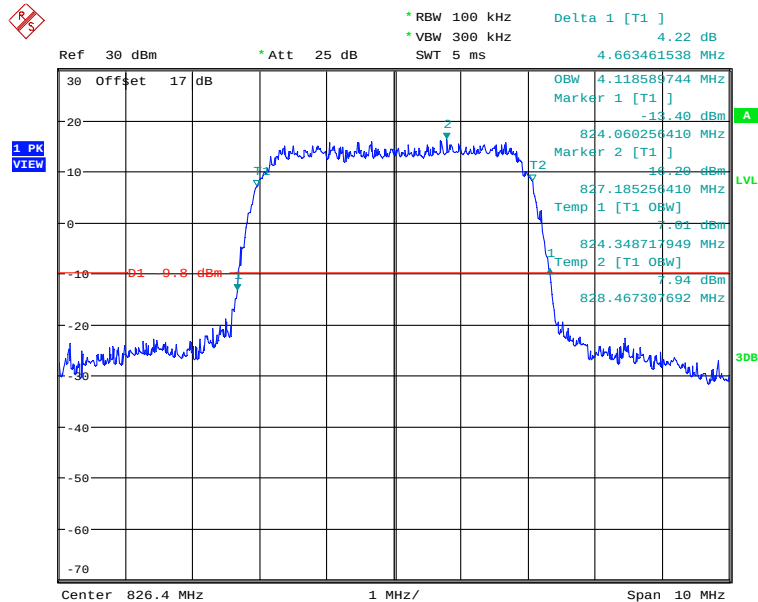
Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

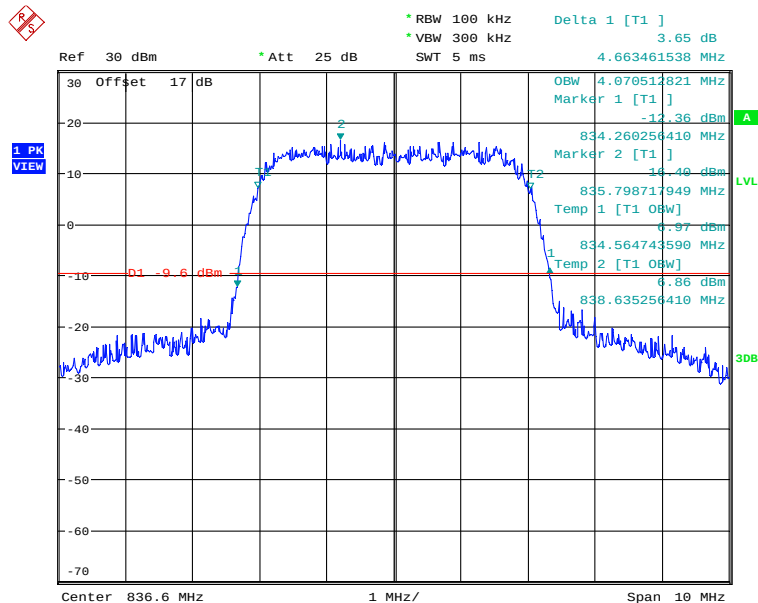
Band 5

5 MHz



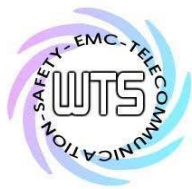
99% OBW 26DB BW BAND5 5MHz CH4132

Date: 27.NOV.2017 15:43:51



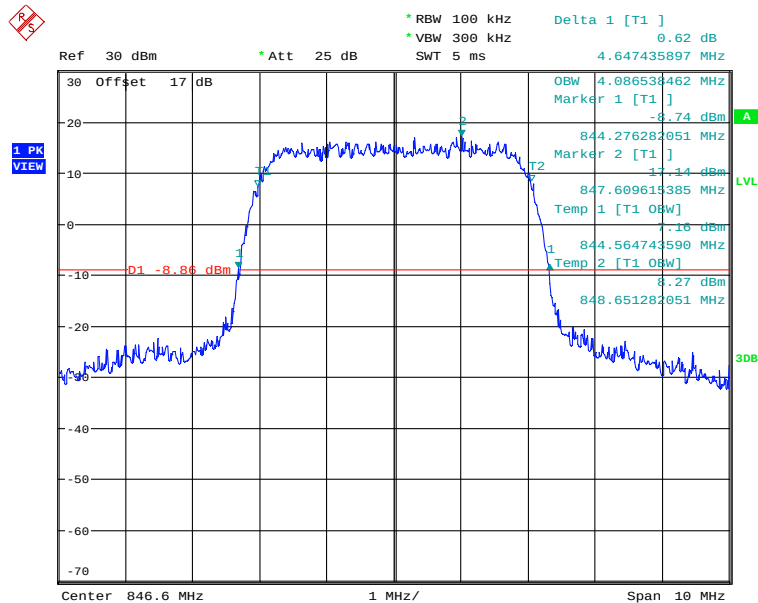
99% OBW 26DB BW BAND5 5MHz CH4183

Date: 27.NOV.2017 15:45:19



Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



99% OBW 26dB BW BAND5 5MHz CH4233

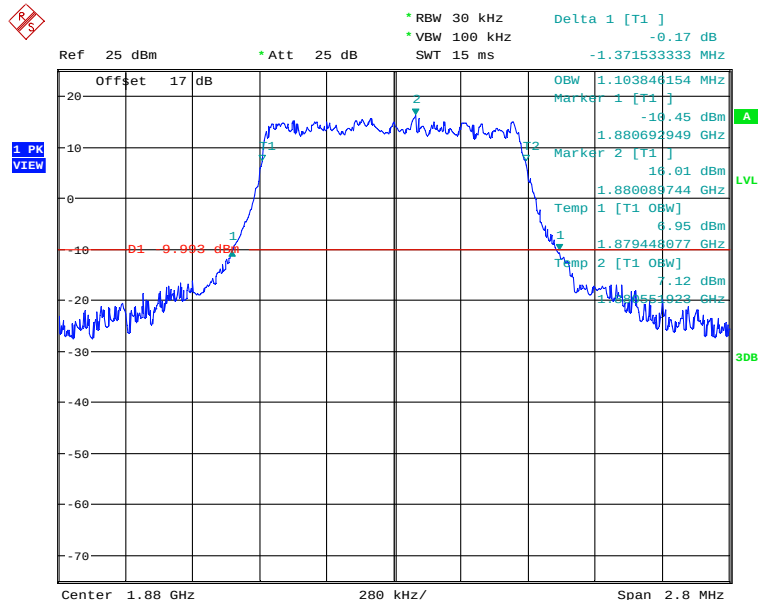
Date: 27.NOV.2017 15:46:28

26dB Channel Bandwidth

LTE

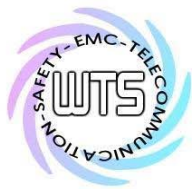
Band 2

1.4 MHz QPSK



99% OBW &26DB BW BAND2_QPSK_1_4MHz_CH18900

Date: 22.NOV.2017 10:14:56

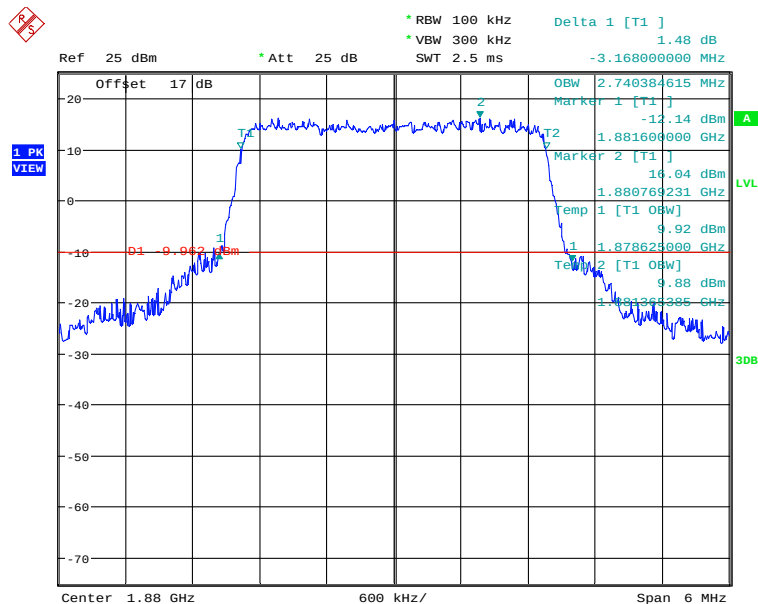


Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

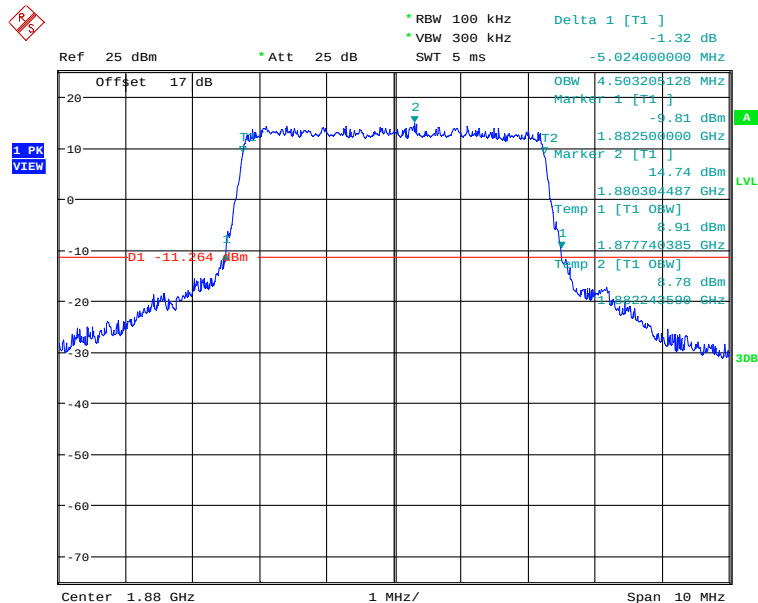
3 MHz QPSK



99% OBW &26DB BW BAND2_QPSK_3MHz_CH18900

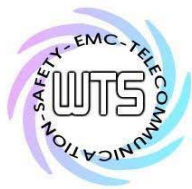
Date: 22.NOV.2017 10:18:11

5 MHz QPSK



99% OBW &26DB BW BAND2_QPSK_5MHz_CH18900

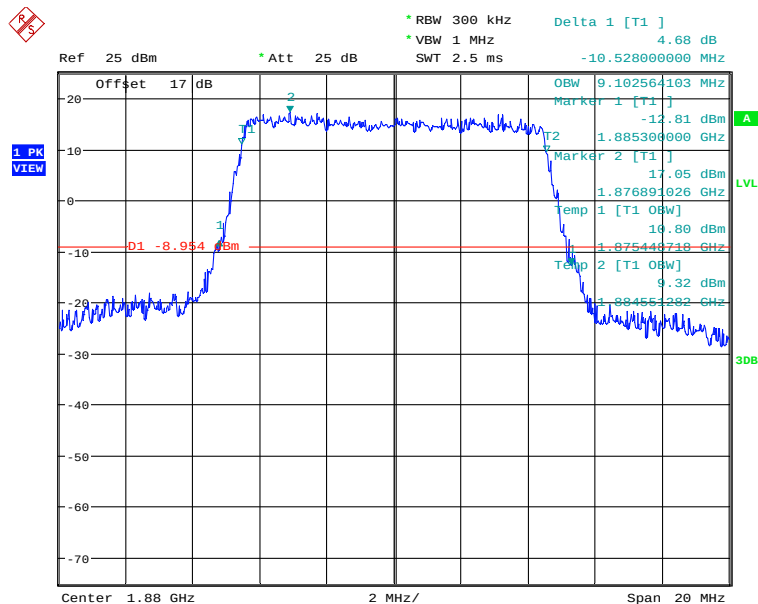
Date: 22.NOV.2017 10:18:50



Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

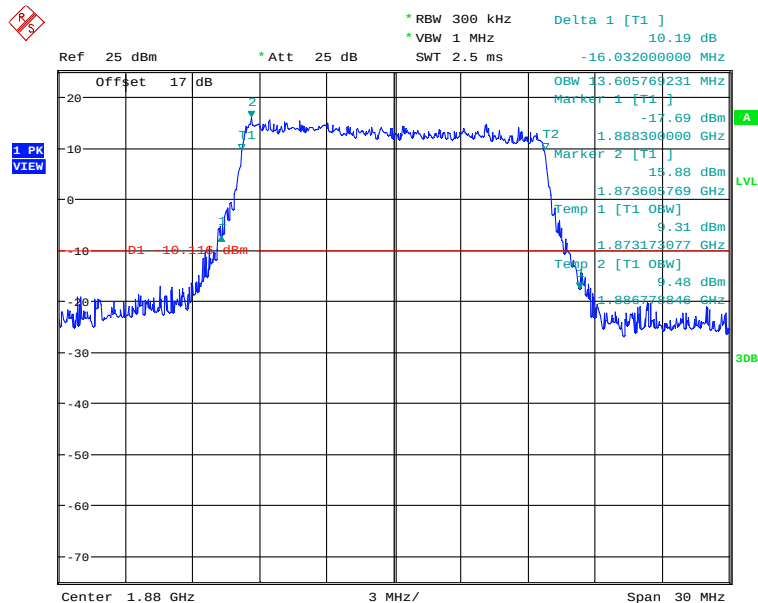
10 MHz QPSK



99% OBW &26DB BW BAND2_QPSK_10MHz_CH18900

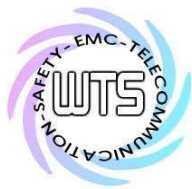
Date: 22.NOV.2017 10:20:45

15 MHz QPSK



99% OBW &26DB BW BAND2_QPSK_15MHz_CH18900

Date: 22.NOV.2017 10:22:02

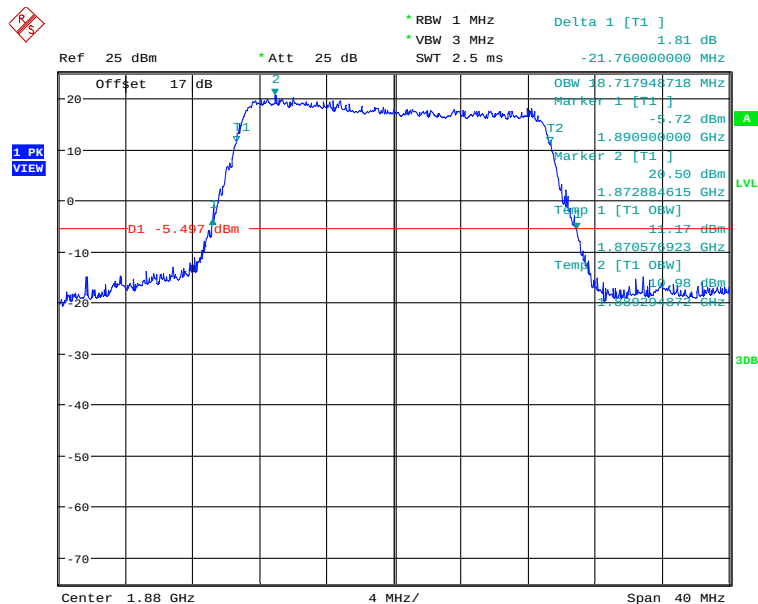


Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

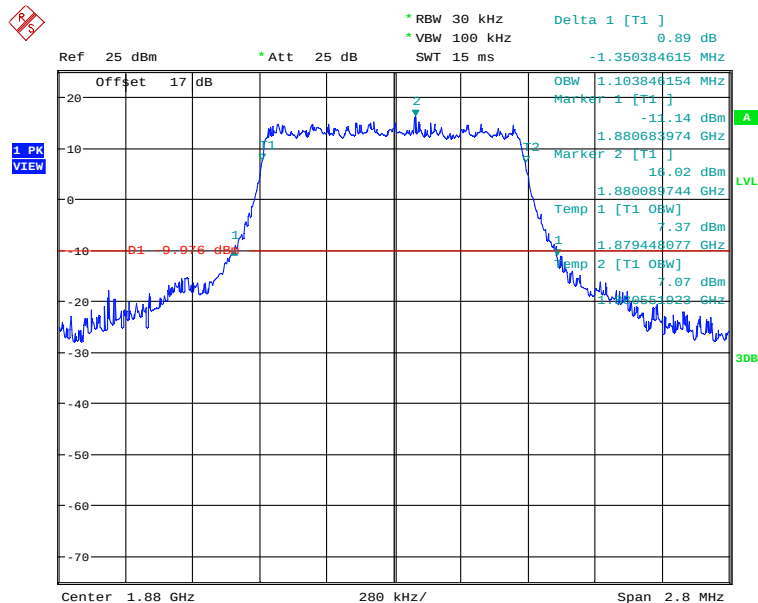
FCC ID: GX9CTC1052LTE

20 MHz QPSK

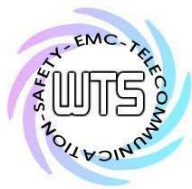


99% OBW &26DB BW BAND2_QPSK_20MHz_CH18900
Date: 22.NOV.2017 10:24:36

1.4 MHz 16QAM



99% OBW &26DB BW BAND2_16QAM_1.4MHz_CH18900
Date: 22.NOV.2017 10:15:48

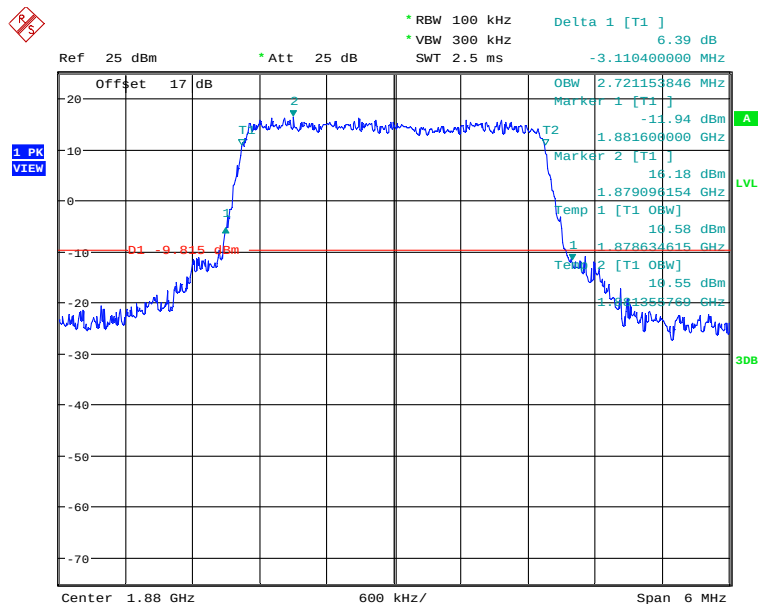


Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

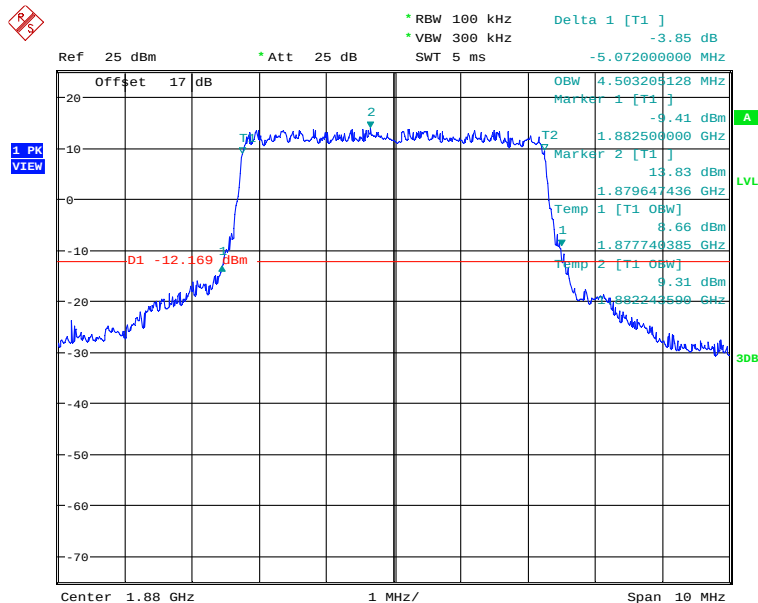
FCC ID: GX9CTC1052LTE

3 MHz 16QAM

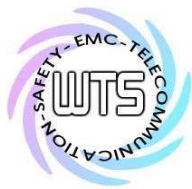


99% OBW &26DB BW BAND2_16QAM_3MHz_CH18900
Date: 22.NOV.2017 10:17:11

5 MHz 16QAM



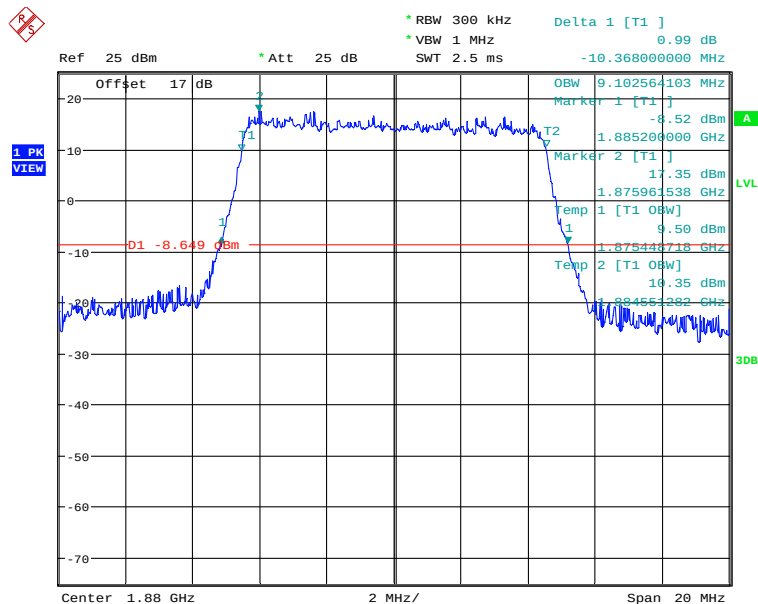
99% OBW &26DB BW BAND2_16QAM_5MHz_CH18900
Date: 22.NOV.2017 10:19:23



Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

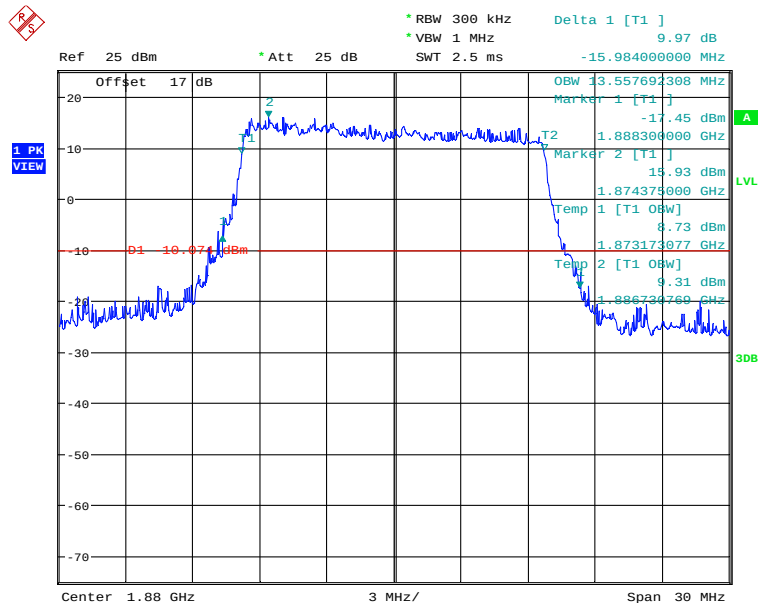
10 MHz 16QAM



99% OBW &26DB BW BAND2_16QAM_10MHz_CH18900

Date: 22.NOV.2017 10:20:18

15 MHz 16QAM



99% OBW &26DB BW BAND2_16QAM_15MHz_CH18900

Date: 22.NOV.2017 10:23:03

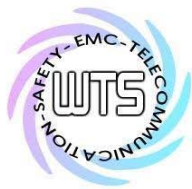


20 MHz 16QAM

Date: 22.NOV.2017 10:24:09

1.4 MHz QPSK

Date: 22.NOV.2017 11:46:36

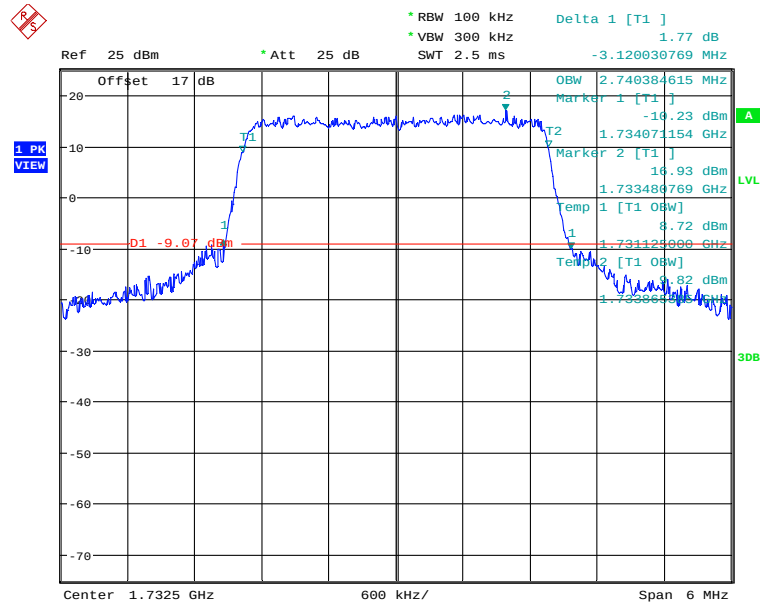


Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

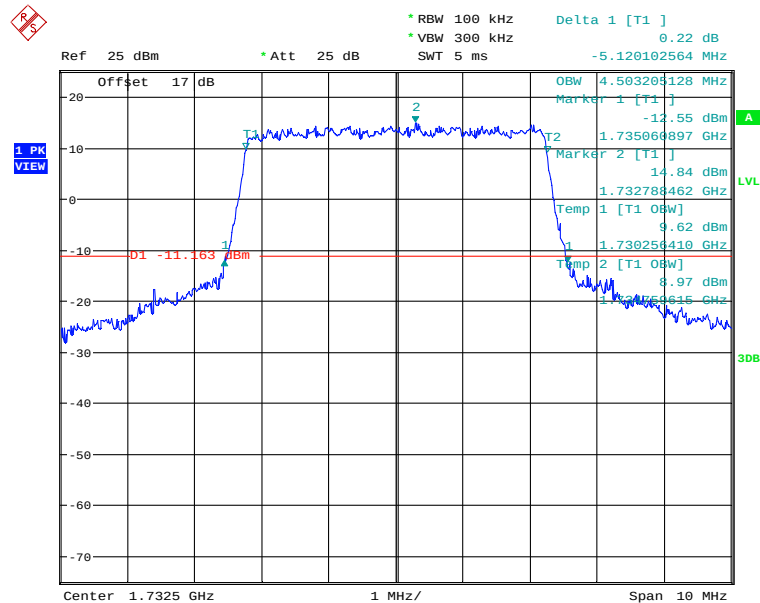
3 MHz QPSK



99% OBW &26DB BW BAND4_QPSK_3MHz_CH20175

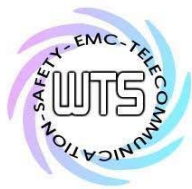
Date: 22.NOV.2017 11:52:19

5 MHz QPSK



99% OBW &26DB BW BAND4_QPSK_5MHz_CH20175

Date: 22.NOV.2017 11:53:24

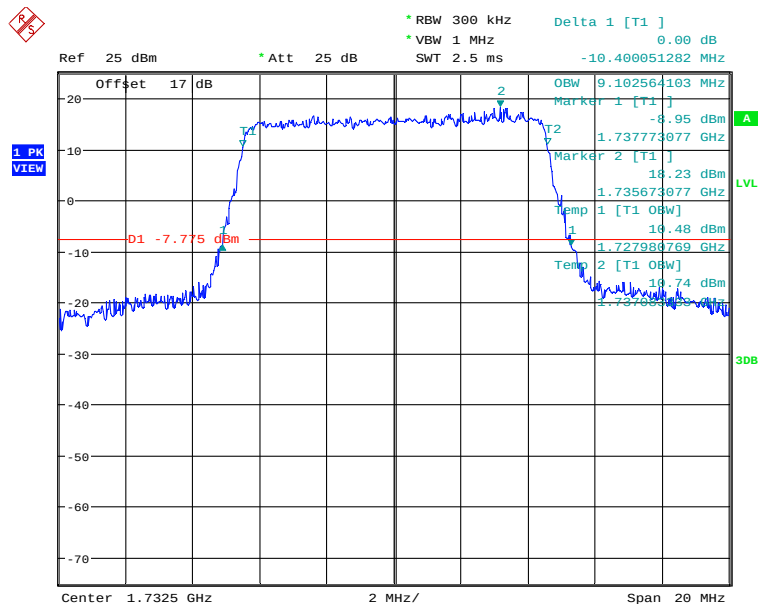


Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

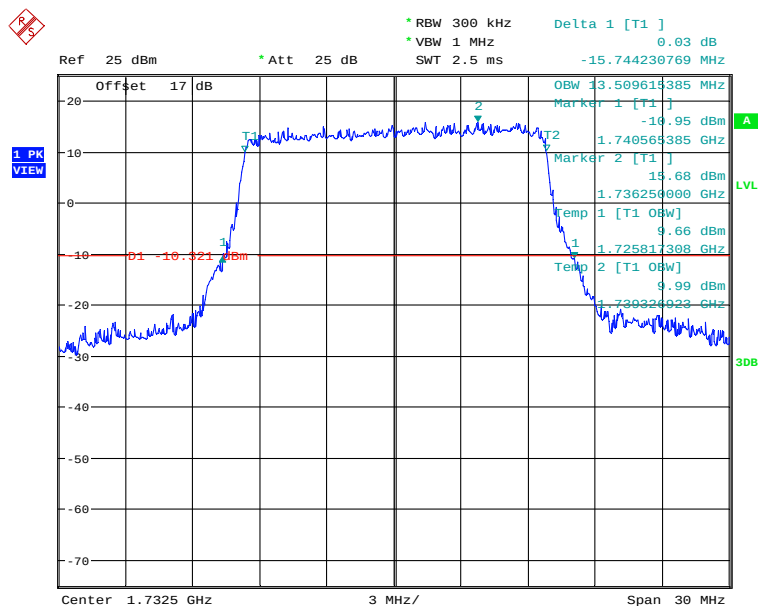
10 MHz QPSK



99% OBW &26DB BW BAND4_QPSK_10MHz_CH20175

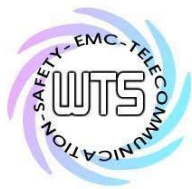
Date: 22.NOV.2017 12:01:29

15 MHz QPSK



99% OBW &26DB BW BAND4_QPSK_15MHz_CH20175

Date: 22.NOV.2017 13:25:47

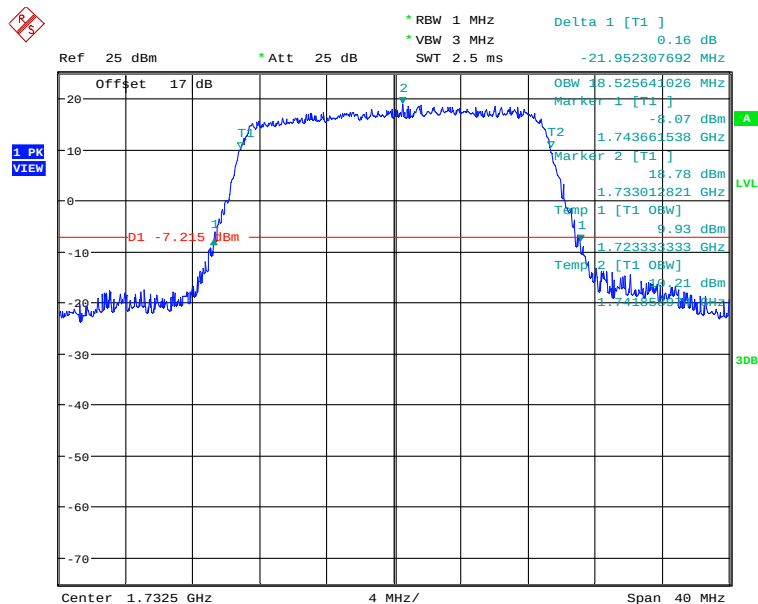


Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

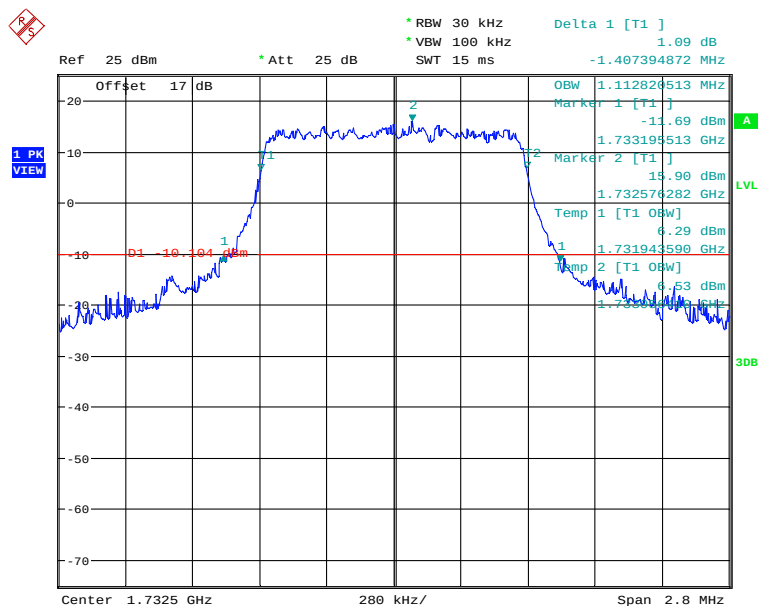
FCC ID: GX9CTC1052LTE

20 MHz QPSK

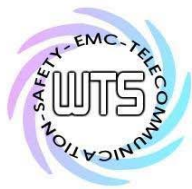


99% OBW &26DB BW BAND4_QPSK_20MHz_CH20175
Date: 22.NOV.2017 13:30:54

1.4 MHz 16QAM



99% OBW &26DB BW BAND4_16QAM_1_4MHz_CH20175
Date: 22.NOV.2017 11:47:27

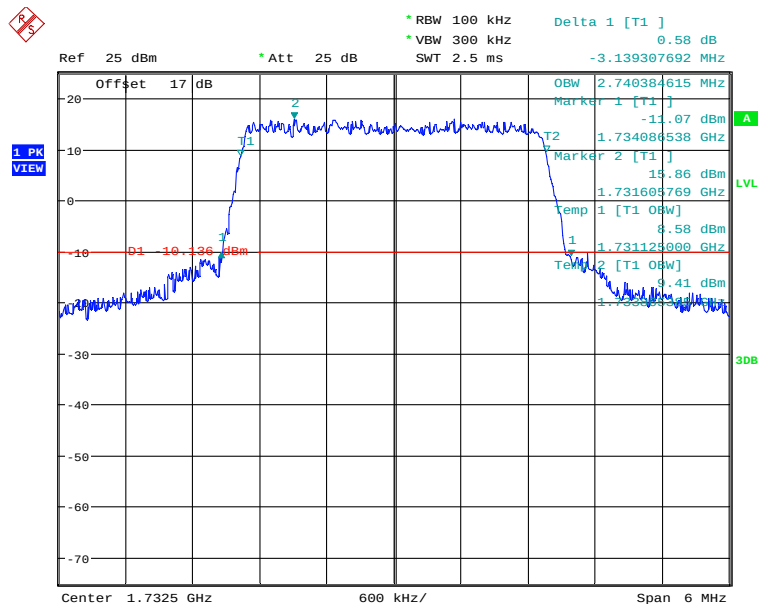


Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

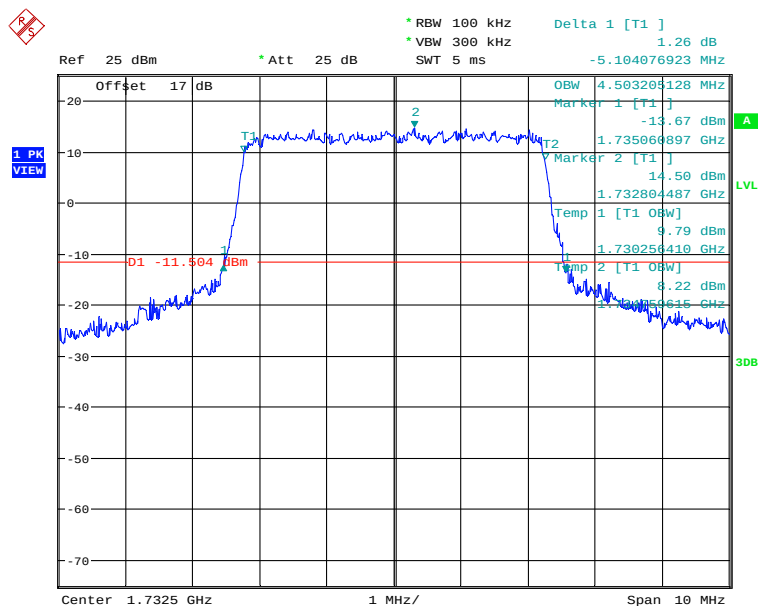
FCC ID: GX9CTC1052LTE

3 MHz 16QAM

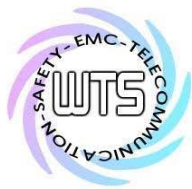


99% OBW &26DB BW BAND4_16QAM_3MHz_CH20175
Date: 22.NOV.2017 11:51:31

5 MHz 16QAM



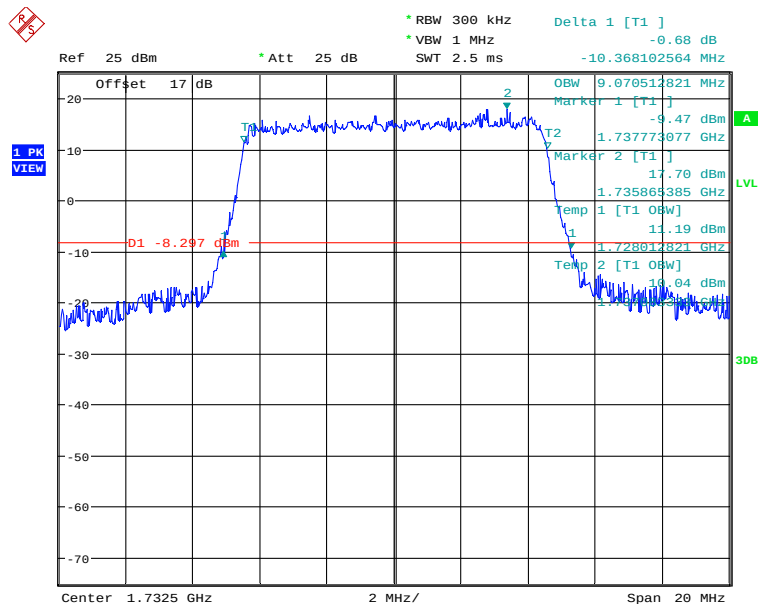
99% OBW &26DB BW BAND4_16QAM_5MHz_CH20175
Date: 22.NOV.2017 11:54:59



Report Number: W6M21711-17577-P-247

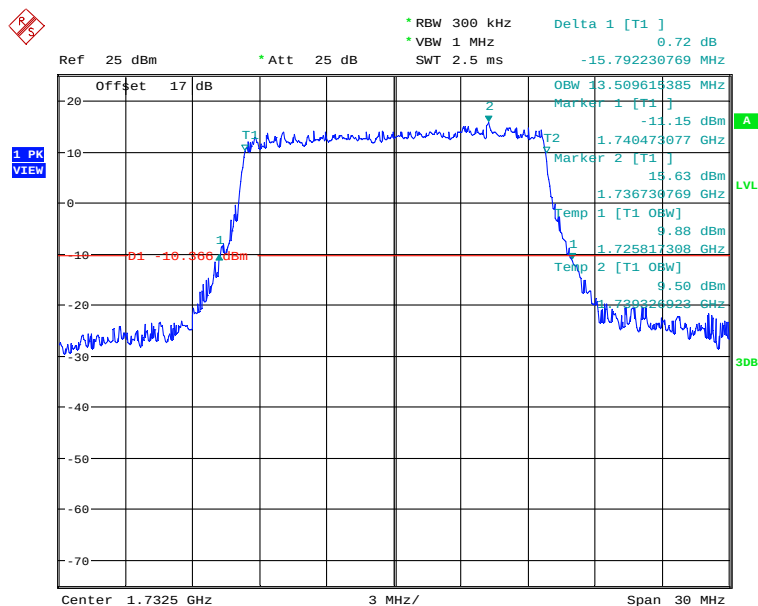
FCC ID: GX9CTC1052LTE

10 MHz 16QAM

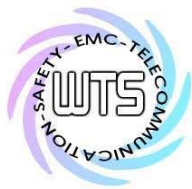


99% OBW &26DB BW BAND4_16QAM_10MHz_CH20175
Date: 22.NOV.2017 12:02:19

15 MHz 16QAM



99% OBW &26DB BW BAND4_16QAM_15MHz_CH20175
Date: 22.NOV.2017 13:24:52

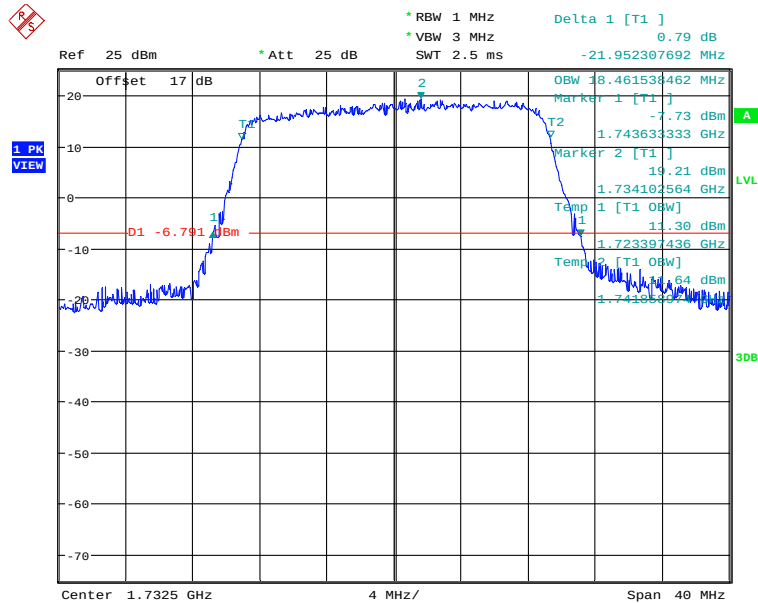


Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

20 MHz 16QAM

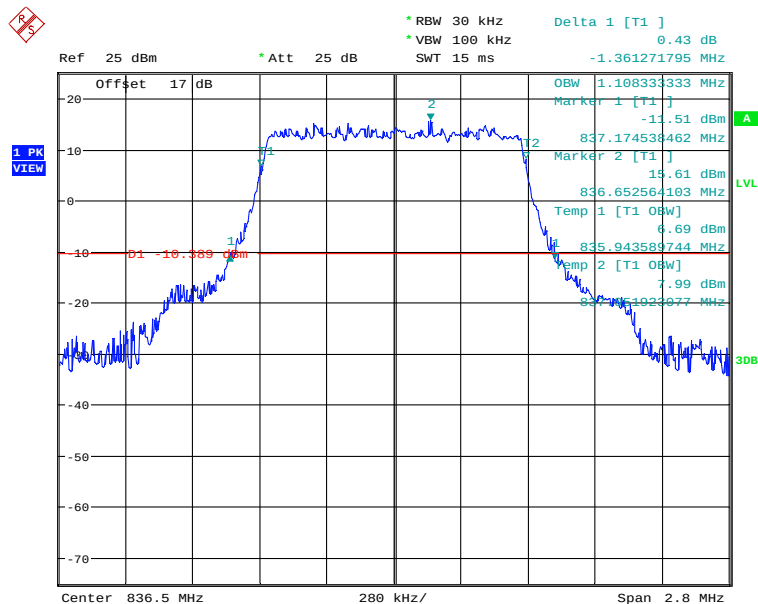


99% OBW &26DB BW BAND4_16QAM_20MHz_CH20175

Date: 22.NOV.2017 13:30:12

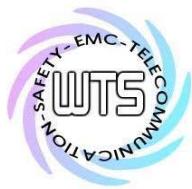
Band 5

1.4 MHz QPSK



99% OBW &26DB BW BAND5_QPSK_1_4MHz_CH20525

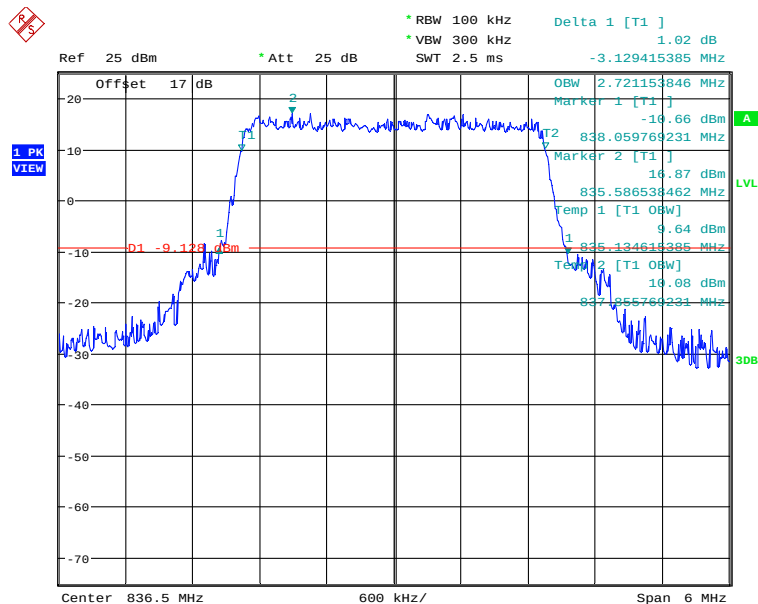
Date: 22.NOV.2017 16:43:21



Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

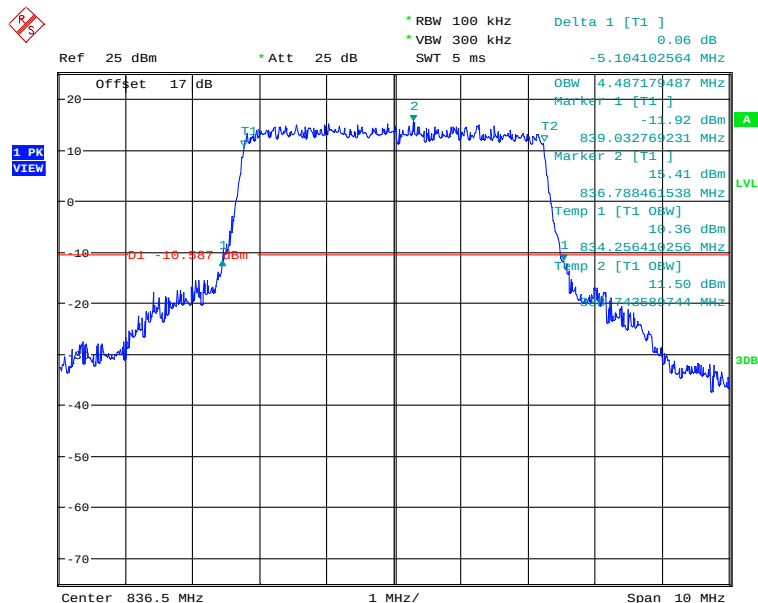
3 MHz QPSK



99% OBW & 26DB BW BAND5_QPSK_3MHz_CH20525

Date: 22.NOV.2017 16:46:22

5 MHz QPSK



99% OBW & 26DB BW BAND5_QPSK_5MHz_CH20525

Date: 22.NOV.2017 16:48:40

10 MHz QPSK

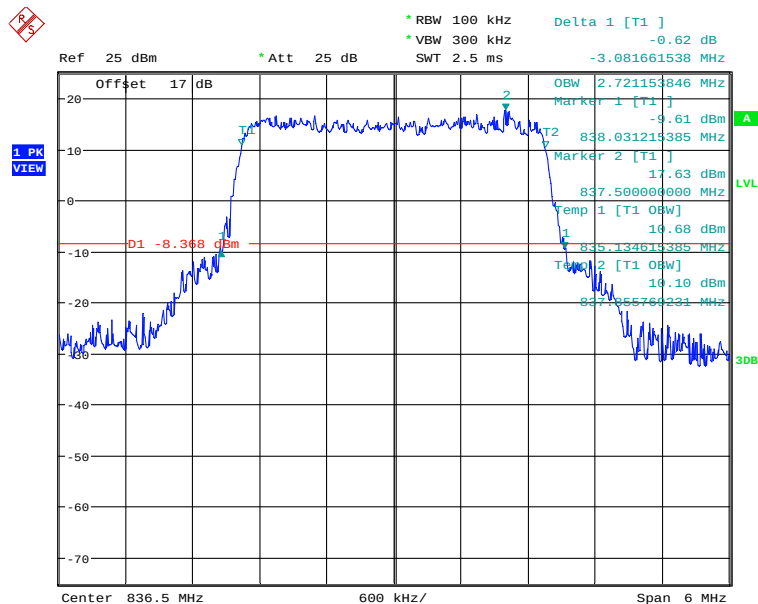


Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

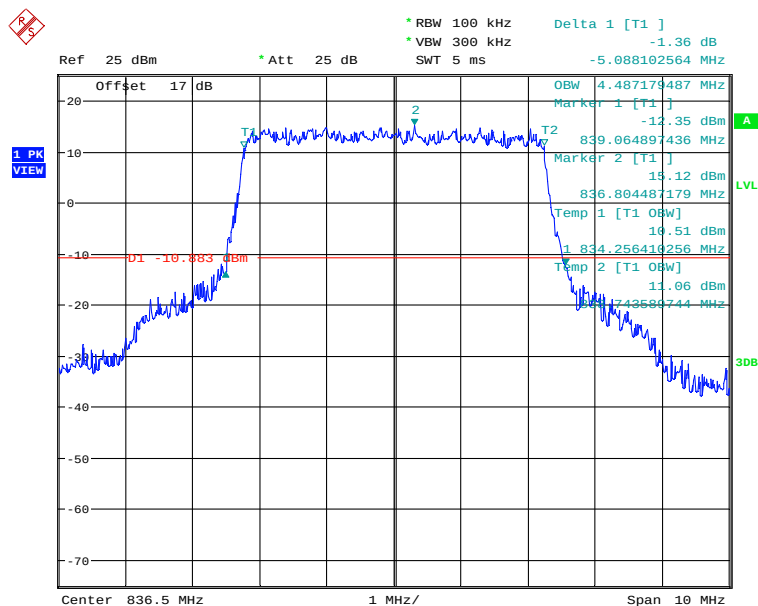
3 MHz 16QAM



99% OBW &26DB BW BAND5_16QAM_3MHz_CH20525

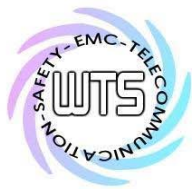
Date: 22.NOV.2017 16:47:07

5 MHz 16QAM



99% OBW &26DB BW BAND5_16QAM_5MHz_CH20525

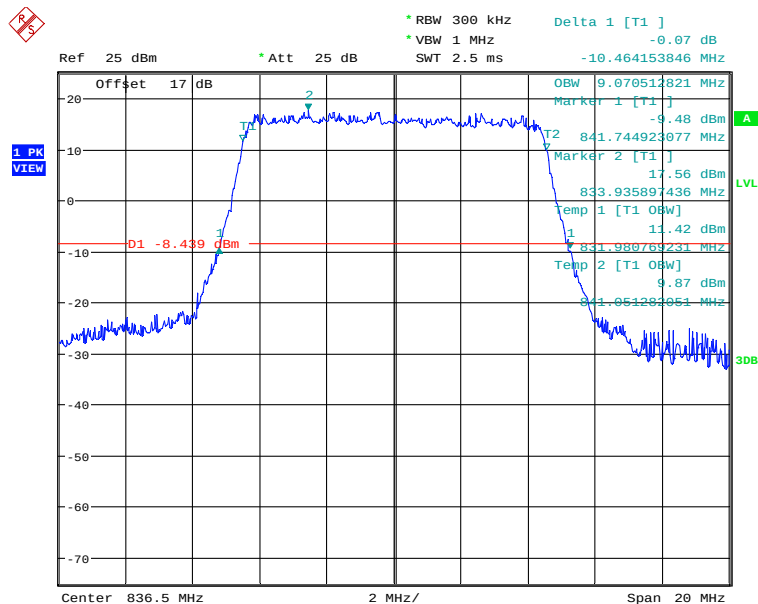
Date: 22.NOV.2017 16:47:55



Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

10 MHz 16QAM

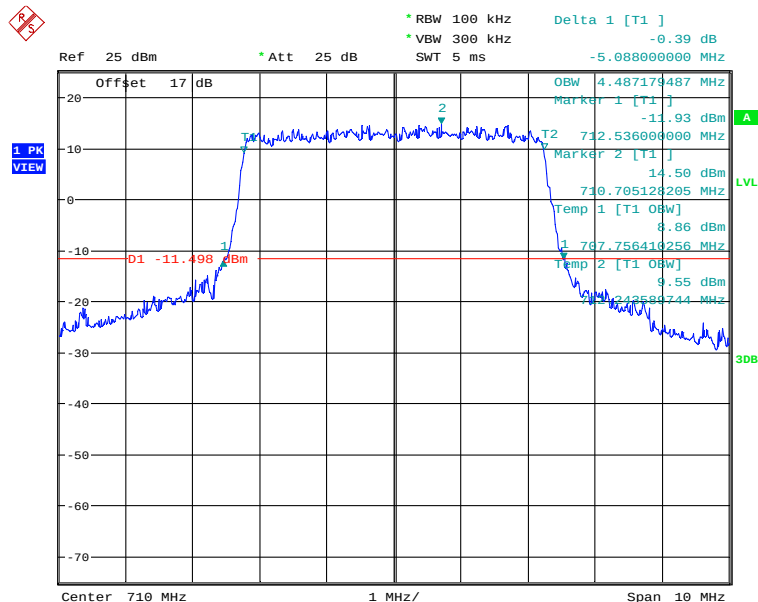


99% OBW &26DB BW BAND5_16QAM_10MHz_CH20525

Date: 22.NOV.2017 17:17:48

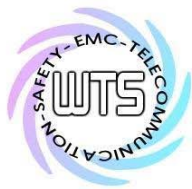
Band 17

5 MHz QPSK



99% OBW &26DB BW BAND17_QPSK_5MHz_CH23790

Date: 22.NOV.2017 17:21:53

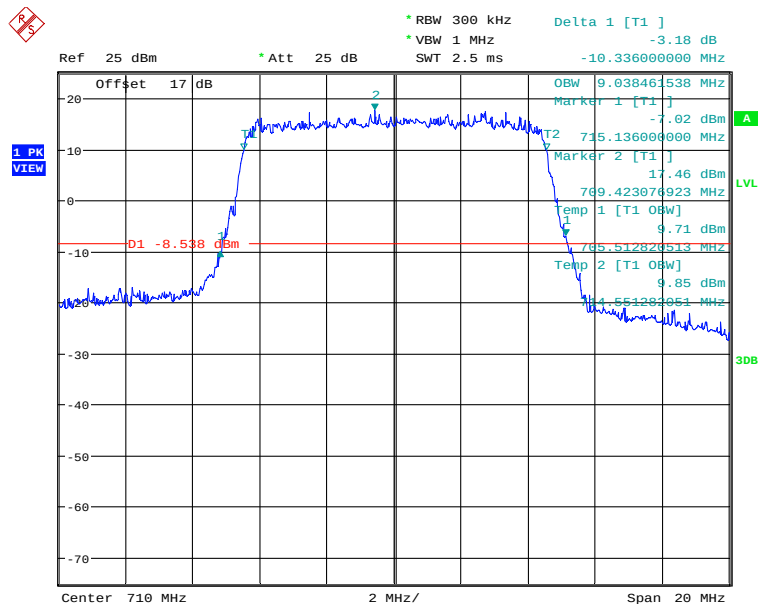


Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

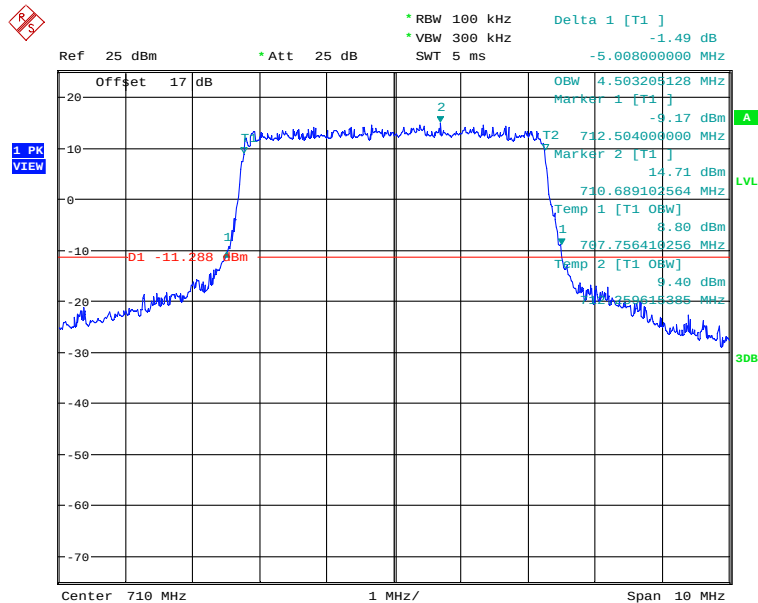
10 MHz QPSK



99% OBW &26DB BW BAND17_QPSK_10MHz_CH23790

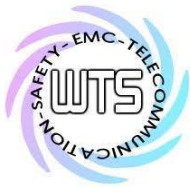
Date: 22.NOV.2017 17:22:54

5 MHz 16QAM



99% OBW &26DB BW BAND17_16QAM_5MHz_CH23790

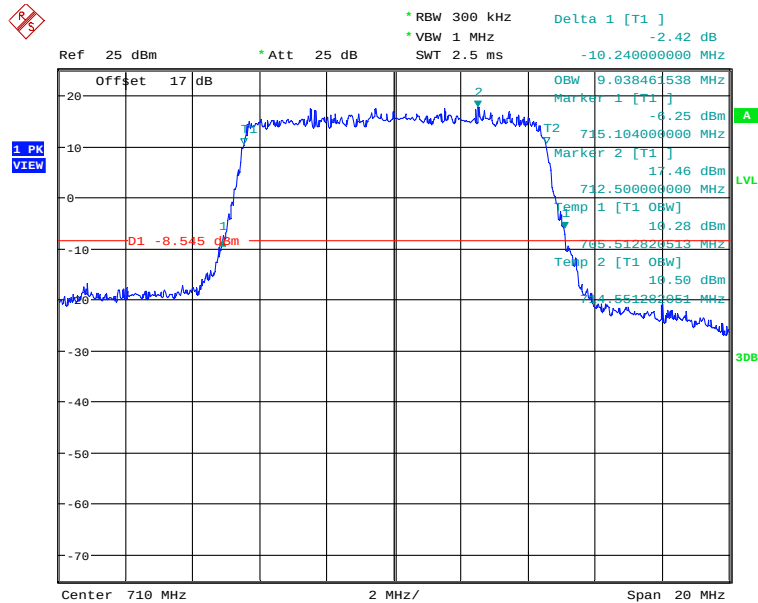
Date: 22.NOV.2017 17:22:15



Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

10 MHz 16QAM



99% OBW & 26DB BW BAND17_16QAM_10MHz_CH23790

Date: 22.NOV.2017 17:23:16

Test equipment: ETSTW-RE 055, ETSTW-GSM 004, ETSTW-GSM 023

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

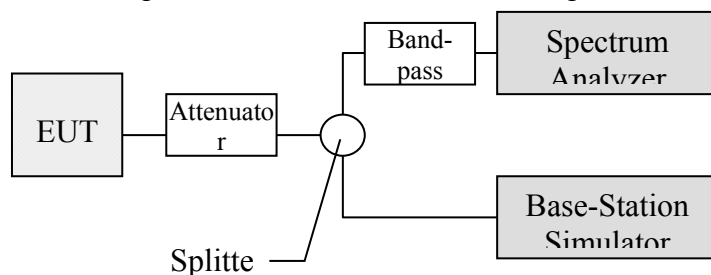
7. Spurious Emissions at Antenna Terminals

7.1 Test procedure

This transmitter output was connected to a calibrated coaxial attenuator, the other end of which was connected to a spectrum analyzer via a three-port splitter. Please refer to the following figure. Transmitter output was derived with the spectrum analyzer in dBm.

The Spurious Emissions at Antenna Terminals was measured by the spectrum analyzer with a suitable notch filter and/or Band-pass filter.

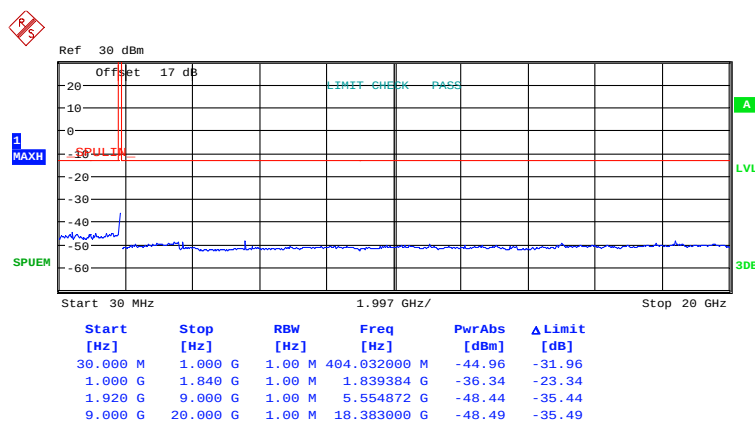
Tests were performed with an unmodulated carrier at three frequencies (low, middle and high channels) and on all power levels , which can be set-up on the transmitters.



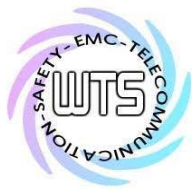
7.2 Test Results

WCDMA

Band 2

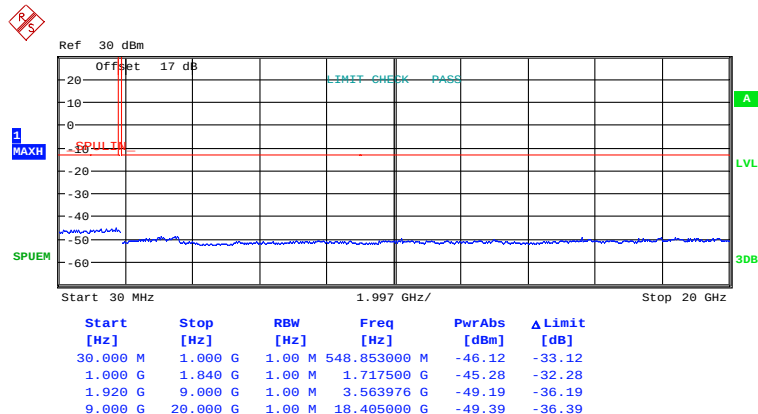


CONDUCTED SPURIOUS EMISSION WCDMA BAND2 CH9262
Date: 27.NOV.2017 16:33:20



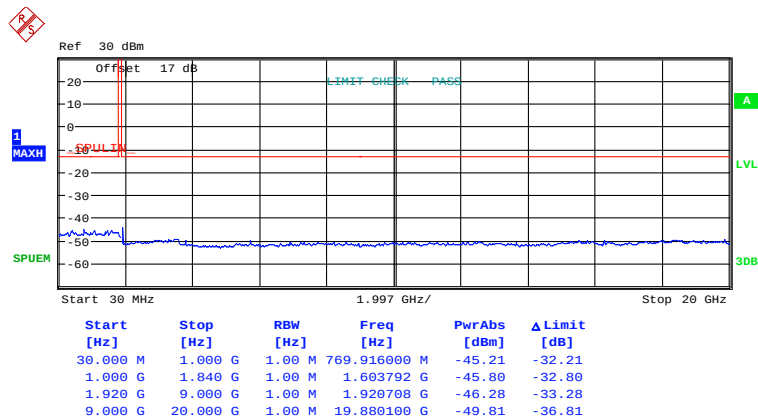
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



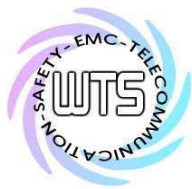
CONDUCTED SPURIOUS EMISSION WCDMA BAND2 CH9400

Date: 27.NOV.2017 16:33:59



CONDUCTED SPURIOUS EMISSION WCDMA BAND2 CH9538

Date: 27.NOV.2017 16:34:35

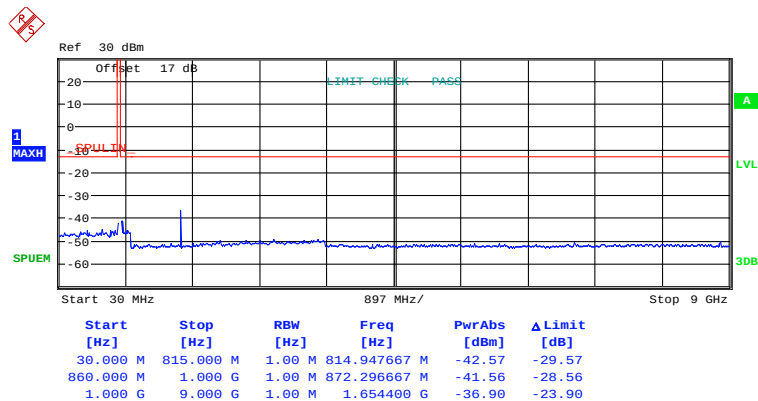


Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

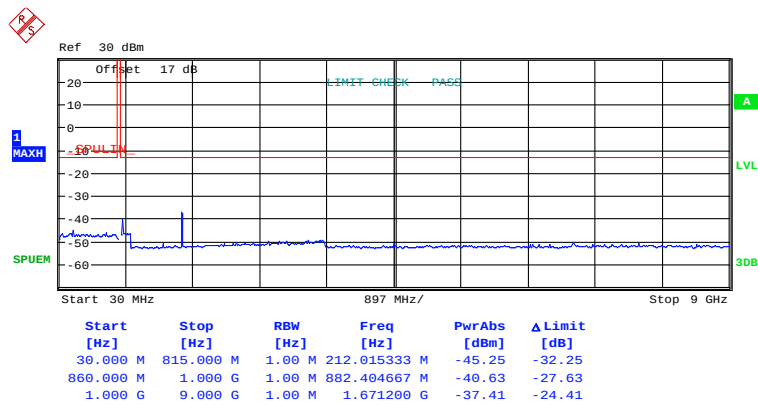
FCC ID: GX9CTC1052LTE

Band 5



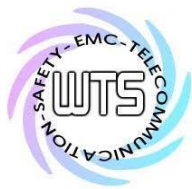
CONDUCTED SPURIOUS EMISSION WCDMA BAND5 CH4132

Date: 27.NOV.2017 16:37:10



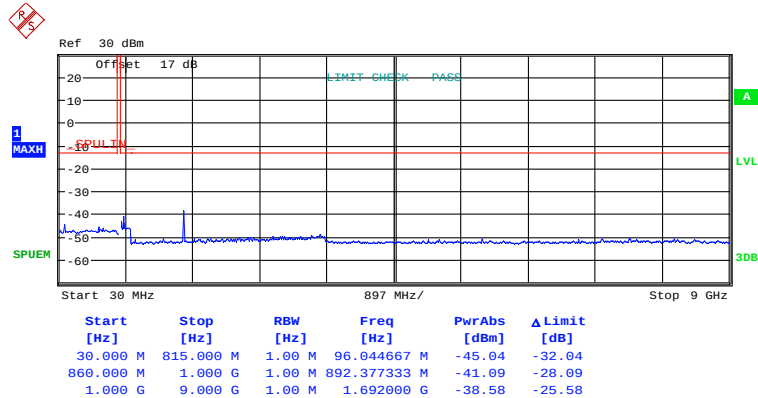
CONDUCTED SPURIOUS EMISSION WCDMA BAND5 CH4183

Date: 27.NOV.2017 16:36:14



Report Number: W6M21711-17577-P-247

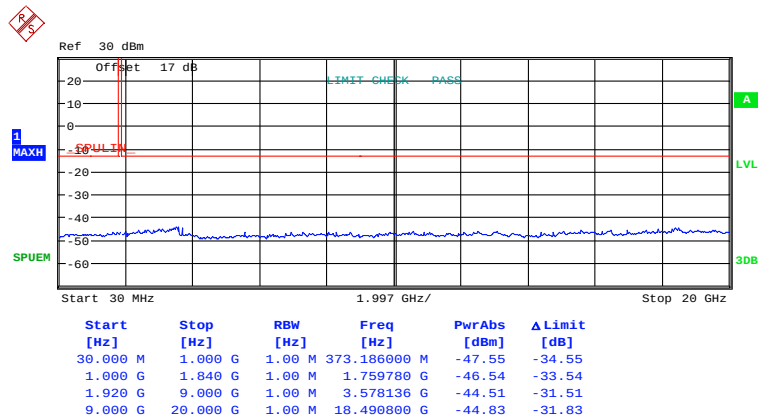
FCC ID: GX9CTC1052LTE



CONDUCTED SPURIOUS EMISSION WCDMA BAND5 CH4233

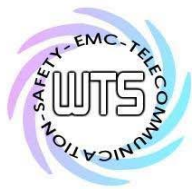
Date: 27.NOV.2017 16:35:45

LTE
Band 2
1.4 MHz QPSK



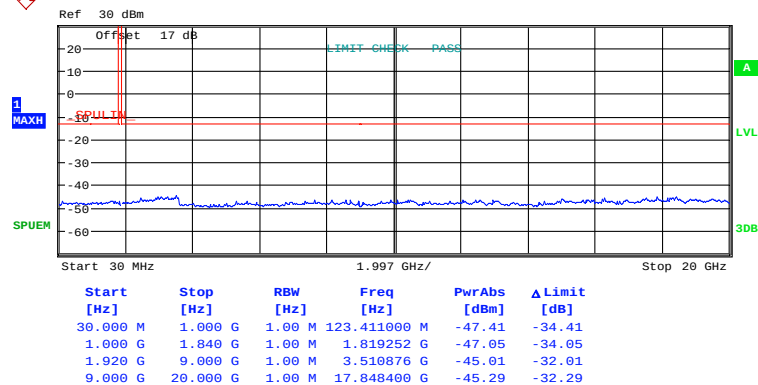
CONDUCTED SPURIOUS EMISSION BAND2 QPSK 1RB#0 1.4MHz CH18607

Date: 24.NOV.2017 15:13:46



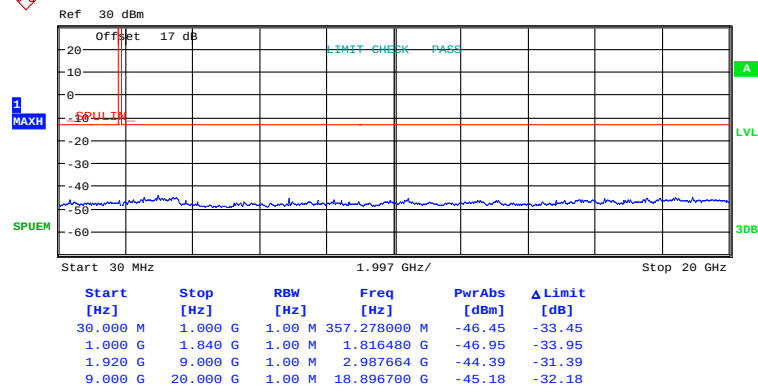
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



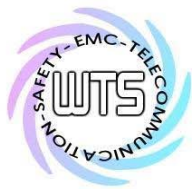
CONDUCTED SPURIOUS EMISSION BAND2 QPSK 1RB#0 1.4MHz CH18900

Date: 24.NOV.2017 15:13:07



CONDUCTED SPURIOUS EMISSION BAND2 QPSK 1RB#0 1.4MHz CH19193

Date: 24.NOV.2017 15:12:41

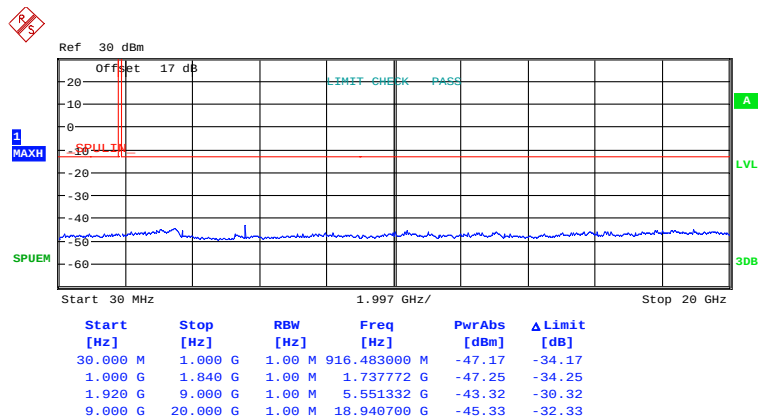


Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

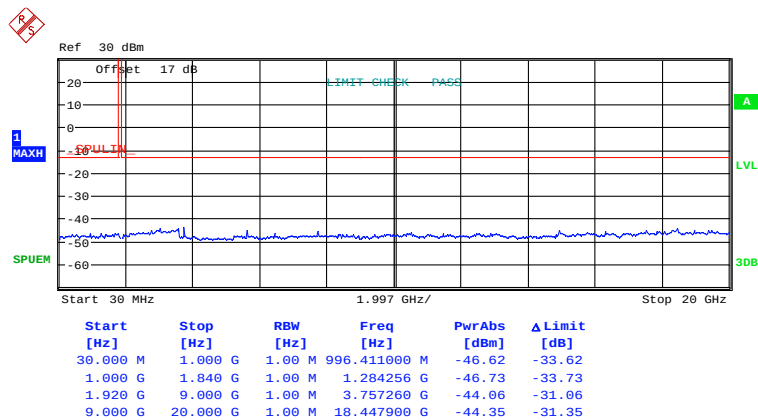
FCC ID: GX9CTC1052LTE

3 MHz QPSK



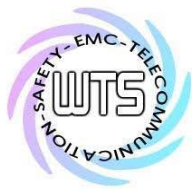
CONDUCTED SPURIOUS EMISSION BAND2 QPSK 1RB#0 3MHz CH18615

Date: 24.NOV.2017 15:27:58



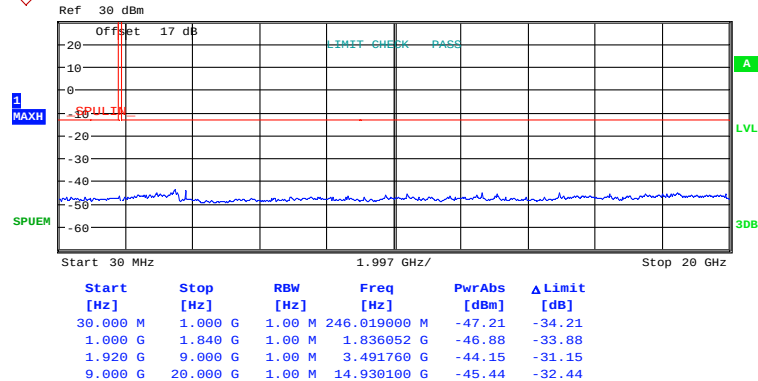
CONDUCTED SPURIOUS EMISSION BAND2 QPSK 1RB#0 3MHz CH18900

Date: 24.NOV.2017 15:28:45



Report Number: W6M21711-17577-P-247

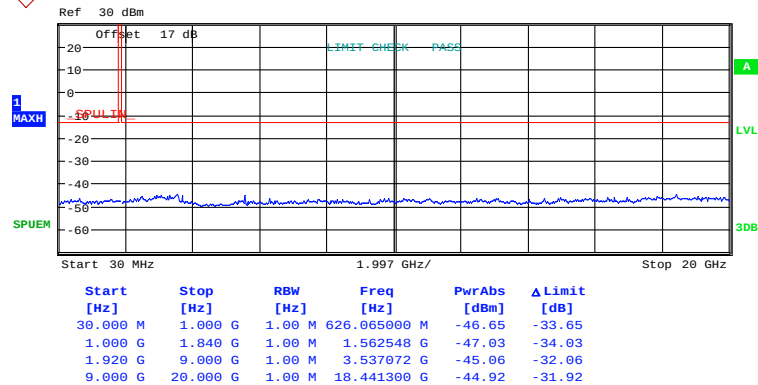
FCC ID: GX9CTC1052LTE



CONDUCTED SPURIOUS EMISSION BAND2 QPSK 1RB#0 3MHz CH19185

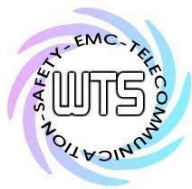
Date: 24.NOV.2017 15:29:30

5 MHz QPSK



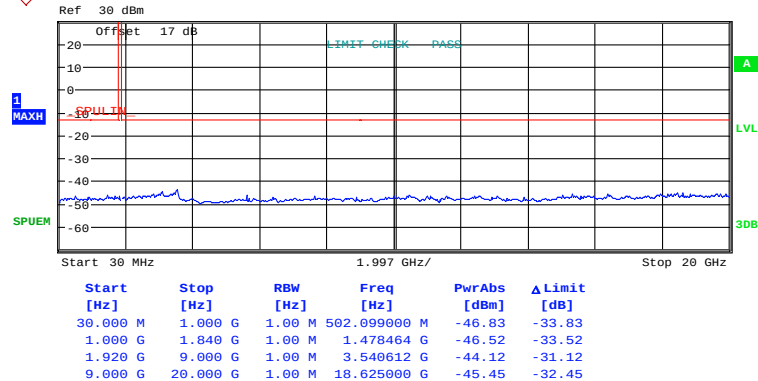
CONDUCTED SPURIOUS EMISSION BAND2 QPSK 1RB#0 5MHz CH18625

Date: 24.NOV.2017 15:34:56



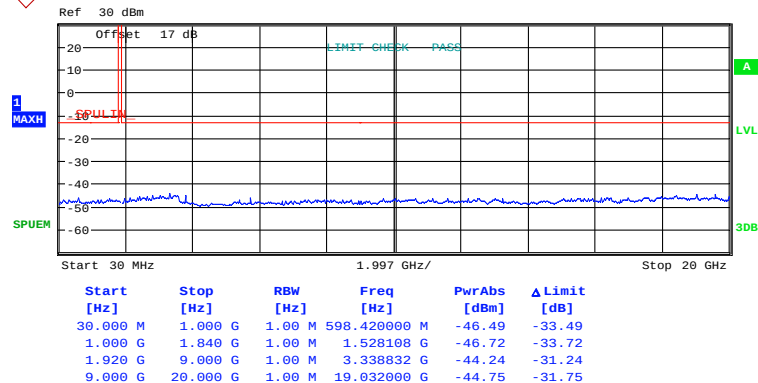
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



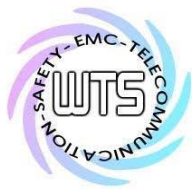
CONDUCTED SPURIOUS EMISSION BAND2 QPSK 1RB#0 5MHz CH18900

Date: 24.NOV.2017 15:34:28



CONDUCTED SPURIOUS EMISSION BAND2 QPSK 1RB#0 5MHz CH19175

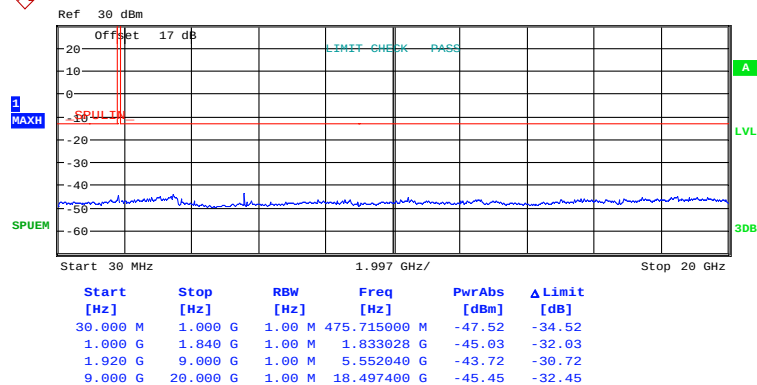
Date: 24.NOV.2017 15:34:02



Report Number: W6M21711-17577-P-247

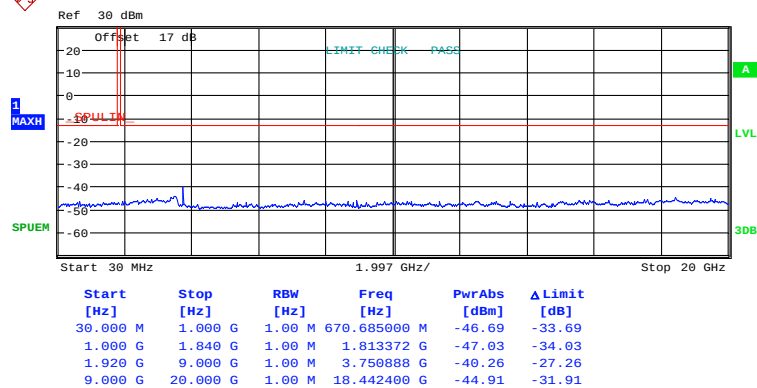
FCC ID: GX9CTC1052LTE

10 MHz QPSK



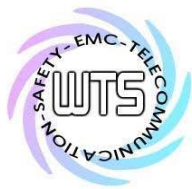
CONDUCTED SPURIOUS EMISSION BAND2 QPSK 1RB#0 10MHz CH18650

Date: 24.NOV.2017 15:36:15



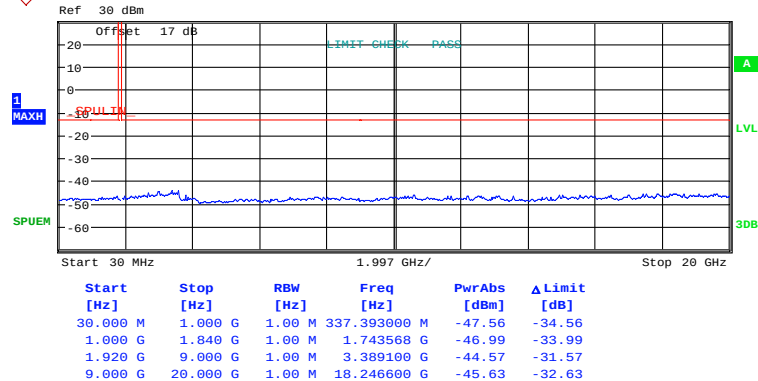
CONDUCTED SPURIOUS EMISSION BAND2 QPSK 1RB#0 10MHz CH18900

Date: 24.NOV.2017 15:37:06



Report Number: W6M21711-17577-P-247

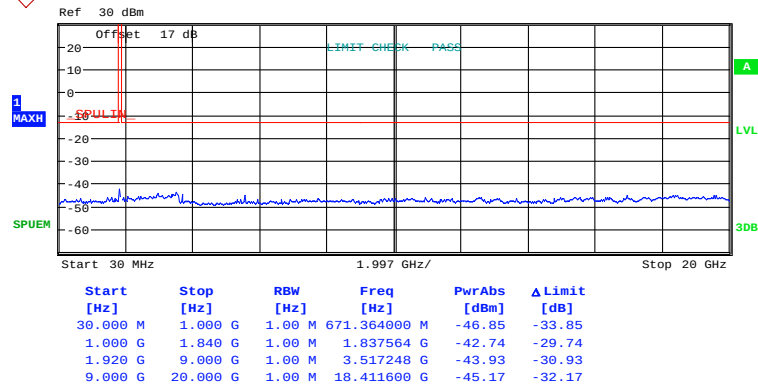
FCC ID: GX9CTC1052LTE



CONDUCTED SPURIOUS EMISSION BAND2 QPSK 1RB#0 10MHz CH19150

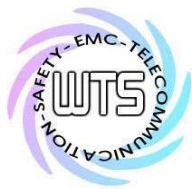
Date: 24.NOV.2017 15:37:37

15 MHz QPSK



CONDUCTED SPURIOUS EMISSION BAND2 QPSK 1RB#0 15MHz CH18675

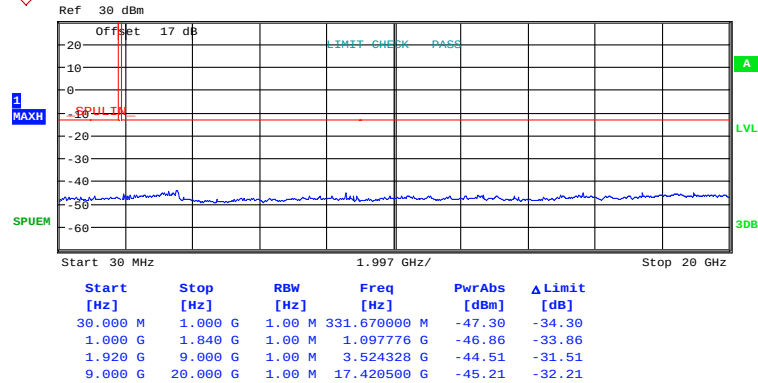
Date: 24.NOV.2017 15:44:52



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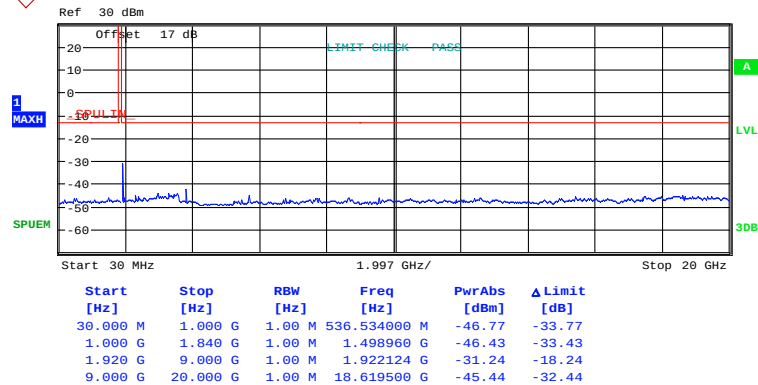
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



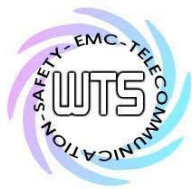
CONDUCTED SPURIOUS EMISSION BAND2 QPSK 1RB#0 15MHz CH18900

Date: 24.NOV.2017 15:44:11



CONDUCTED SPURIOUS EMISSION BAND2 QPSK 1RB#0 15MHz CH19125

Date: 24.NOV.2017 15:43:30

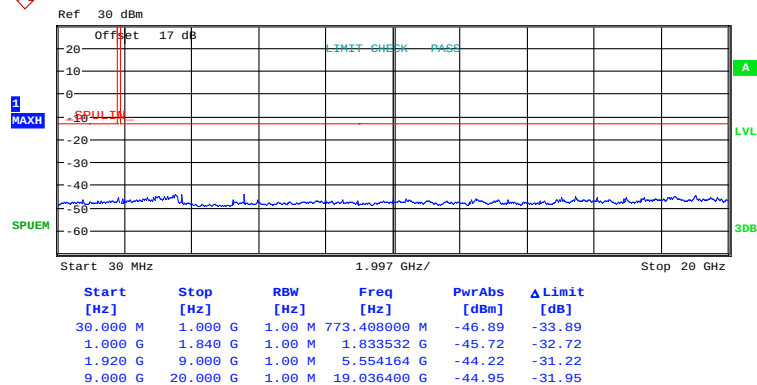


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Report Number: W6M21711-17577-P-247

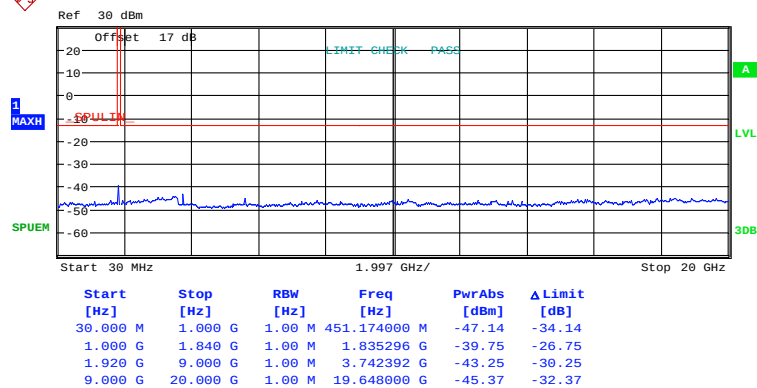
FCC ID: GX9CTC1052LTE

20 MHz QPSK



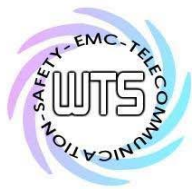
CONDUCTED SPURIOUS EMISSION BAND2 QPSK 1RB#0 20MHz CH18700

Date: 24.NOV.2017 15:45:53



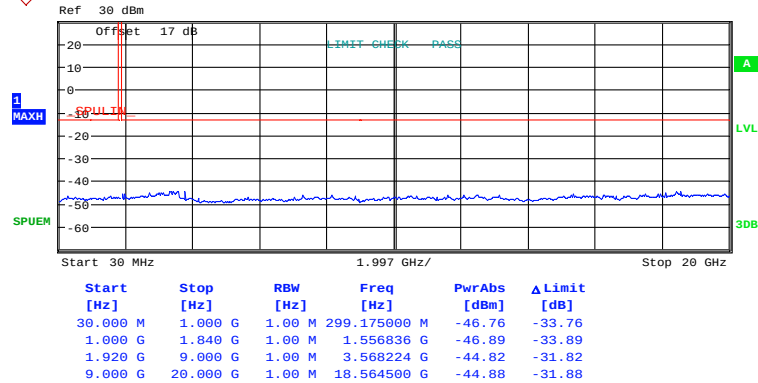
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Date: 24.NOV.2017 15:46:31



Report Number: W6M21711-17577-P-247

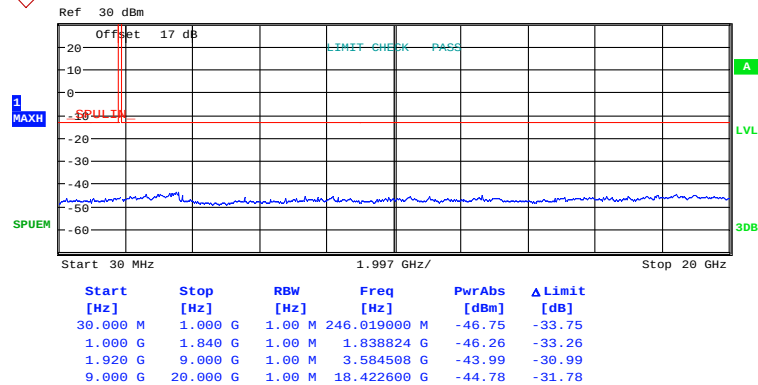
FCC ID: GX9CTC1052LTE



CONDUCTED SPURIOUS EMISSION BAND2 QPSK 1RB#0 20MHz CH19100

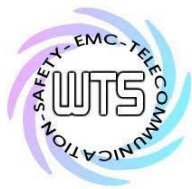
Date: 24.NOV.2017 15:47:09

1.4 MHz 16QAM



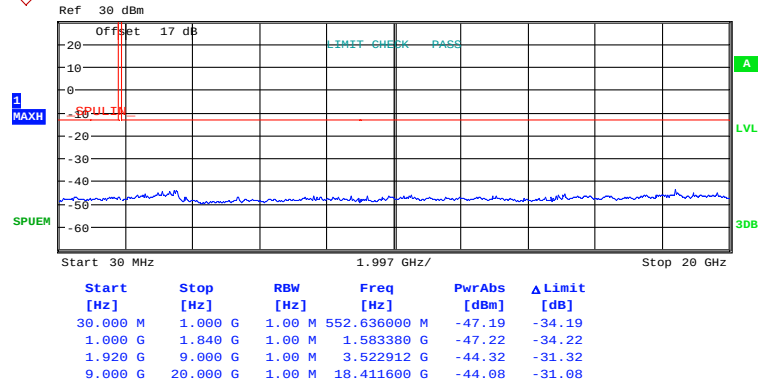
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Date: 24.NOV.2017 15:10:47



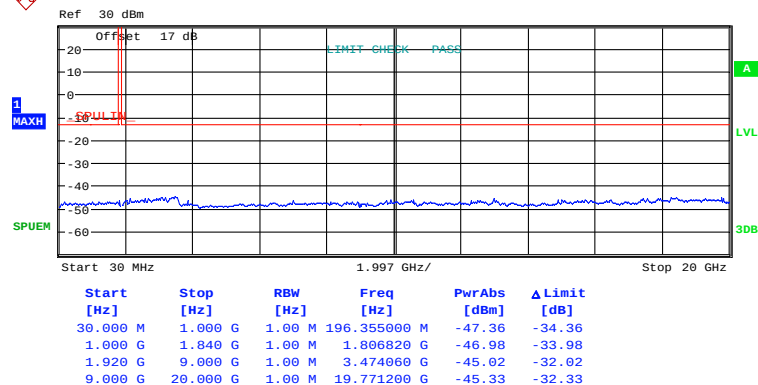
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



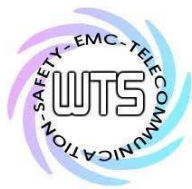
CONDUCTED SPURIOUS EMISSION BAND2 16QAM 1RB#0 1.4MHz CH18900

Date: 24.NOV.2017 15:11:19



CONDUCTED SPURIOUS EMISSION BAND2 16QAM 1RB#0 1.4MHz CH19193

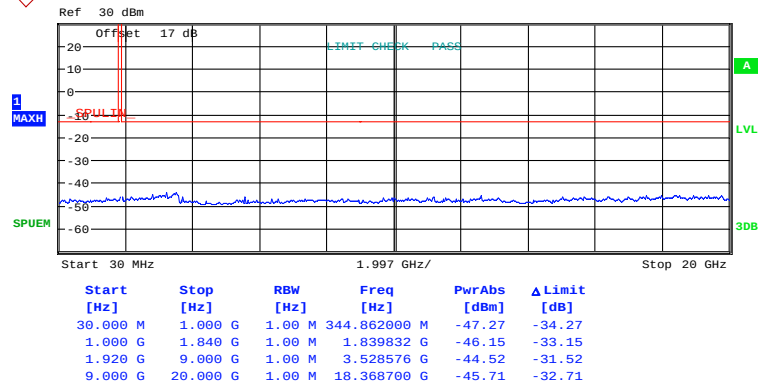
Date: 24.NOV.2017 15:11:57



Report Number: W6M21711-17577-P-247

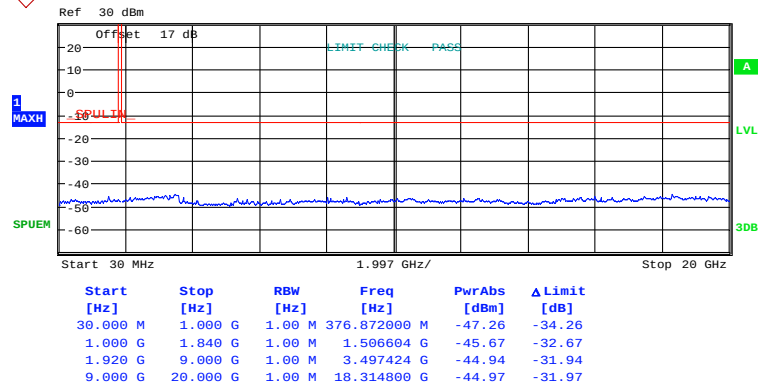
FCC ID: GX9CTC1052LTE

3 MHz 16QAM



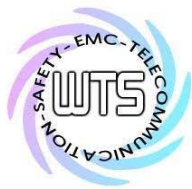
CONDUCTED SPURIOUS EMISSION BAND2 16QAM 1RB#0 3MHz CH18615

Date: 24.NOV.2017 15:31:22



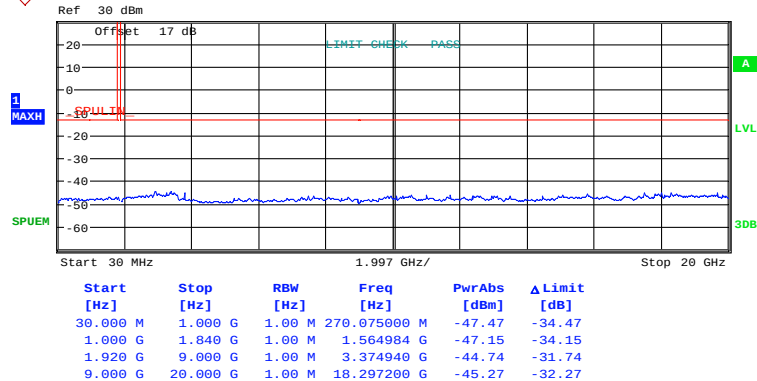
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Date: 24.NOV.2017 15:30:45



Report Number: W6M21711-17577-P-247

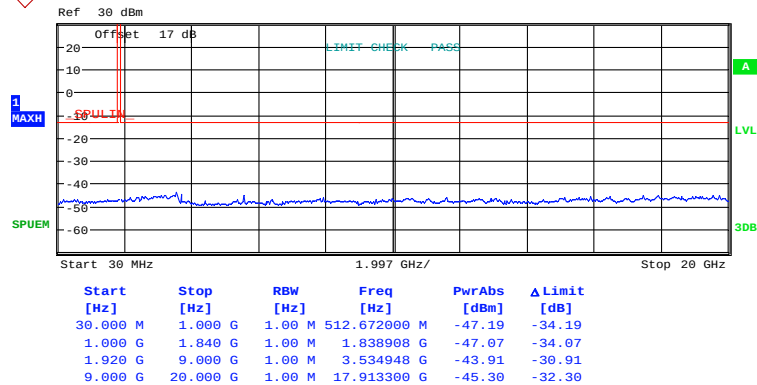
FCC ID: GX9CTC1052LTE



CONDUCTED SPURIOUS EMISSION BAND2 16QAM 1RB#0 3MHz CH19185

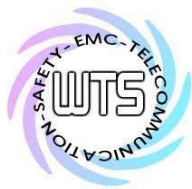
Date: 24.NOV.2017 15:30:19

5 MHz 16QAM



CONDUCTED SPURIOUS EMISSION BAND2 16QAM 1RB#0 5MHz CH18625

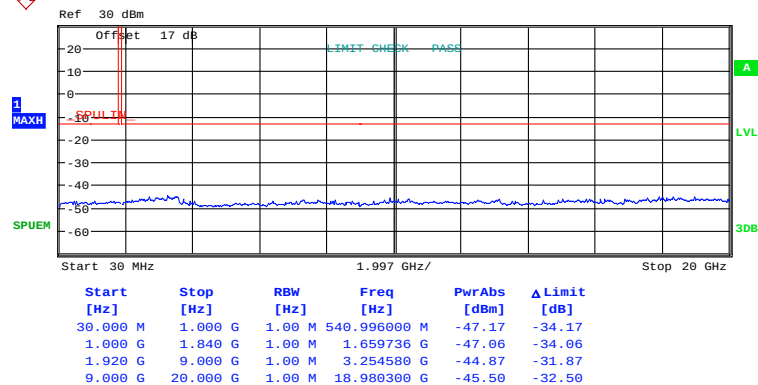
Date: 24.NOV.2017 15:32:10



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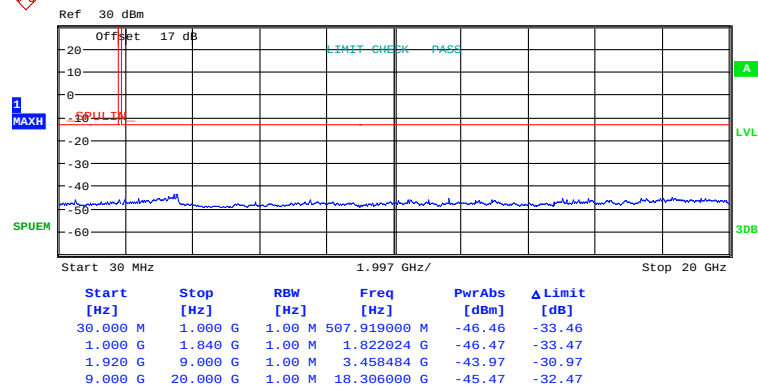
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



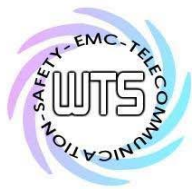
CONDUCTED SPURIOUS EMISSION BAND2 16QAM 1RB#0 5MHz CH18900

Date: 24.NOV.2017 15:32:40



CONDUCTED SPURIOUS EMISSION BAND2 16QAM 1RB#0 5MHz CH19175

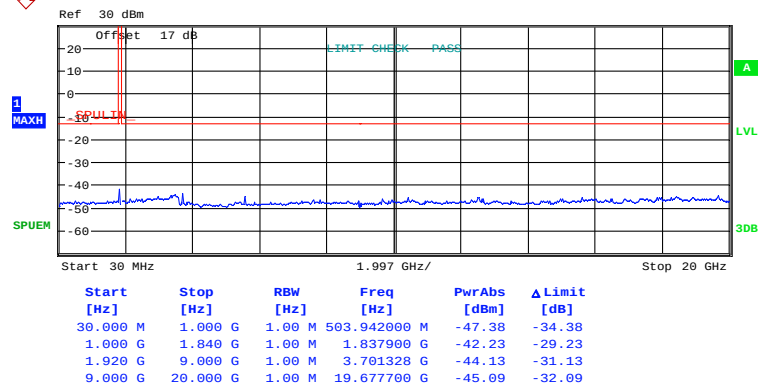
Date: 24.NOV.2017 15:33:18



Report Number: W6M21711-17577-P-247

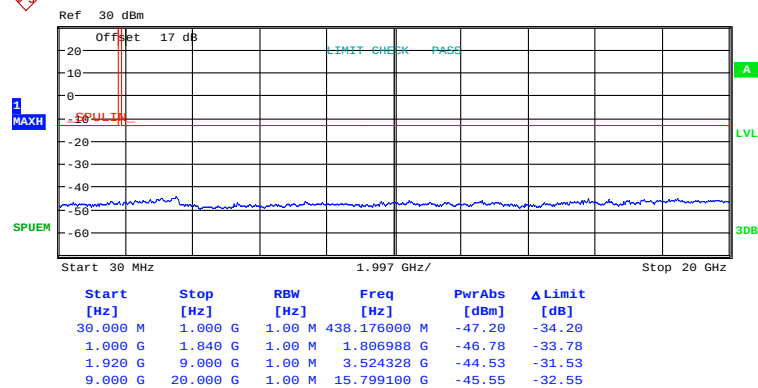
FCC ID: GX9CTC1052LTE

10 MHz 16QAM



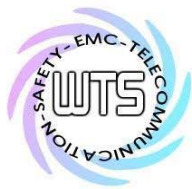
CONDUCTED SPURIOUS EMISSION BAND2 16QAM 1RB#0 10MHz CH18650

Date: 24.NOV.2017 15:39:38



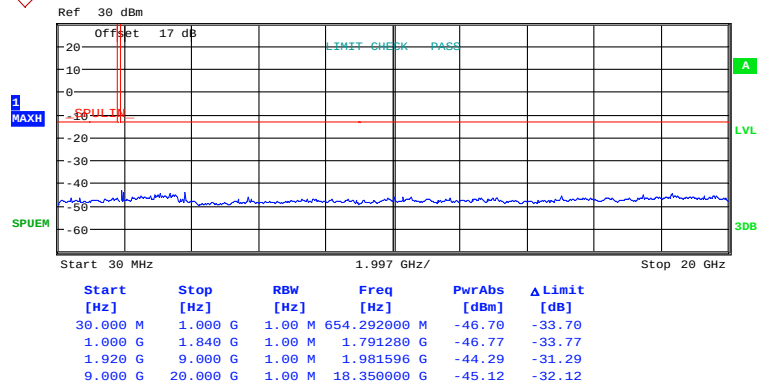
CONDUCTED SPURIOUS EMISSION BAND2 16QAM 1RB#0 10MHz CH18900

Date: 24.NOV.2017 15:38:57



Report Number: W6M21711-17577-P-247

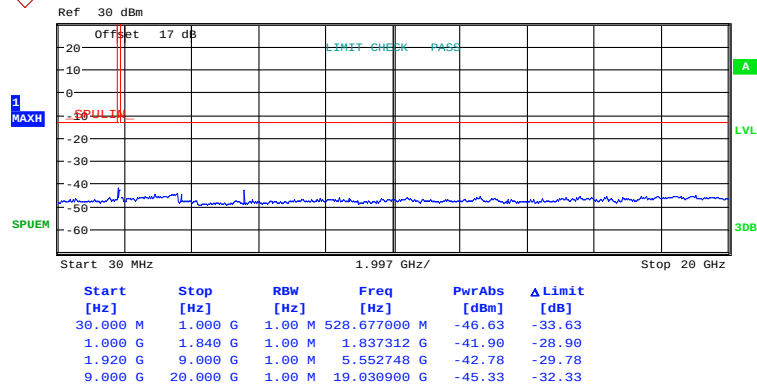
FCC ID: GX9CTC1052LTE



CONDUCTED SPURIOUS EMISSION BAND2 16QAM 1RB#0 10MHz CH19150

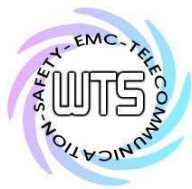
Date: 24.NOV.2017 15:38:28

15 MHz 16QAM



CONDUCTED SPURIOUS EMISSION BAND2 16QAM 1RB#0 15MHz CH18675

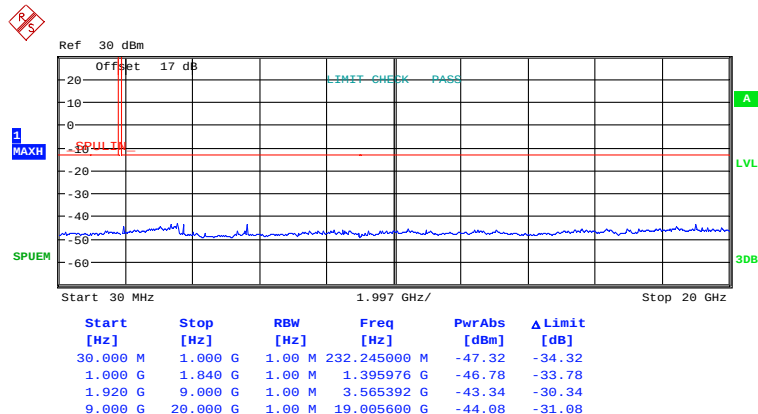
Date: 24.NOV.2017 15:40:56



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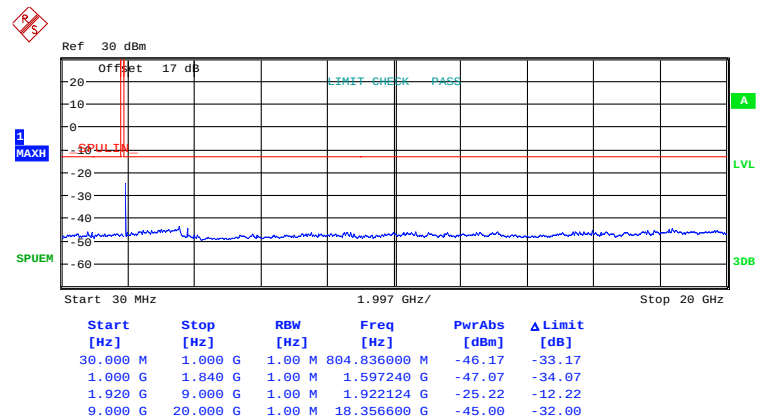
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



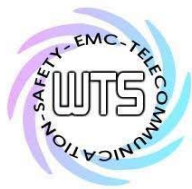
CONDUCTED SPURIOUS EMISSION BAND2 16QAM 1RB#0 15MHz CH18900

Date: 24.NOV.2017 15:41:52



CONDUCTED SPURIOUS EMISSION BAND2 16QAM 1RB#0 15MHz CH19125

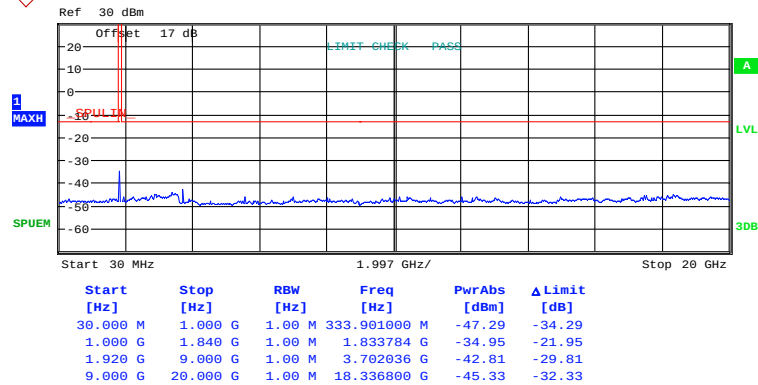
Date: 24.NOV.2017 15:42:37



Report Number: W6M21711-17577-P-247

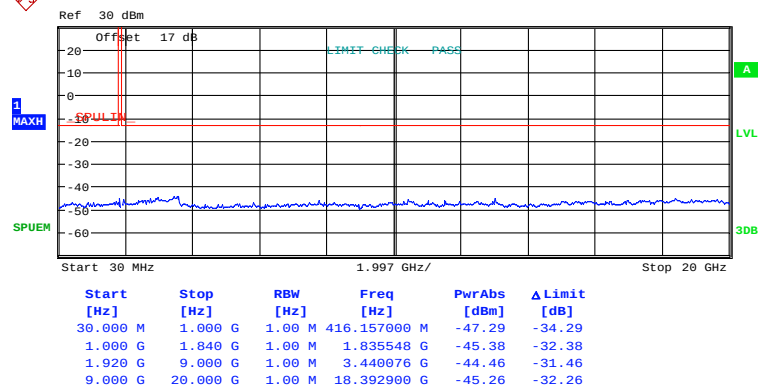
FCC ID: GX9CTC1052LTE

20 MHz 16QAM



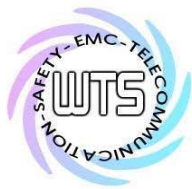
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Date: 24.NOV.2017 15:48:48



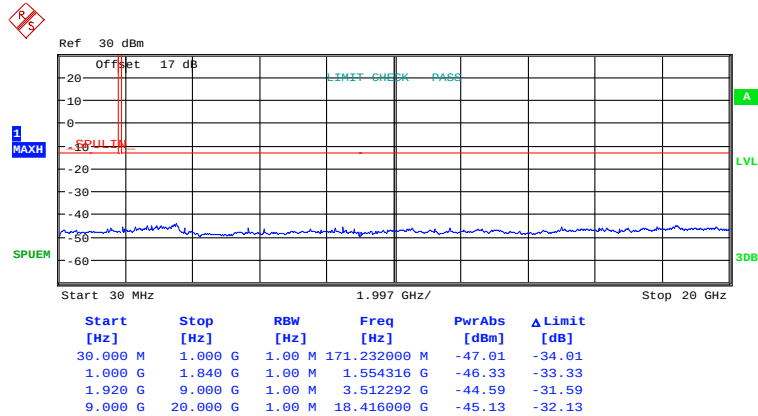
CONDUCTED SPURIOUS EMISSION BAND2 16QAM 1RB#0 20MHz CH18900

Date: 24.NOV.2017 15:48:21



Report Number: W6M21711-17577-P-247

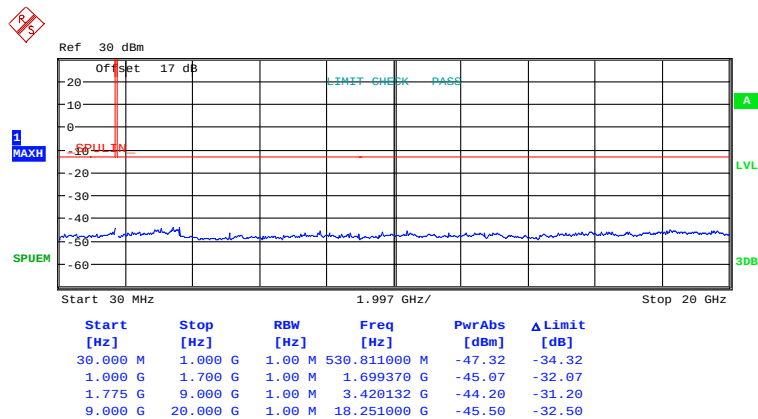
FCC ID: GX9CTC1052LTE



CONDUCTED SPURIOUS EMISSION BAND2 16QAM 1RB#0 20MHz CH19100

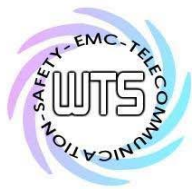
Date: 24.NOV.2017 15:47:54

Band 4
1.4 MHz QPSK



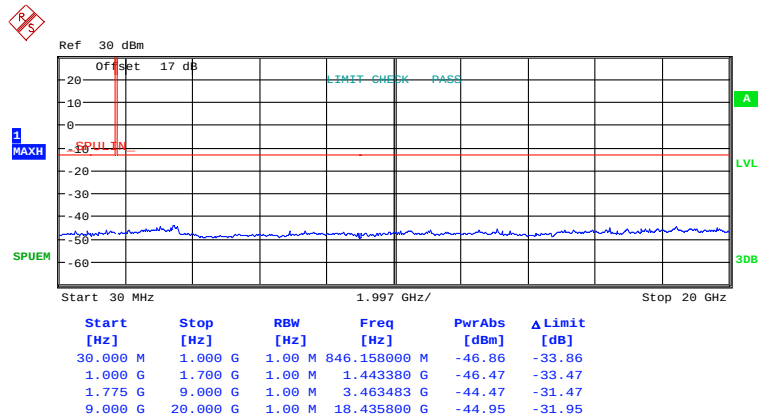
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Date: 24.NOV.2017 15:56:29



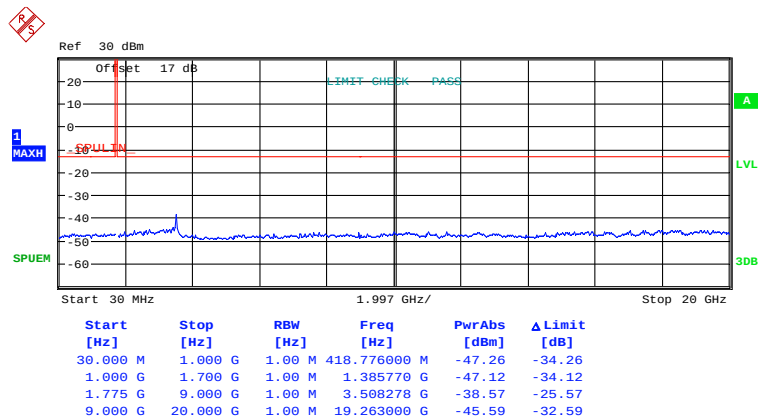
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



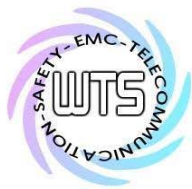
CONDUCTED SPURIOUS EMISSION BAND4 QPSK 1RB#0 1.4MHz CH20175

Date: 24.NOV.2017 15:55:57



CONDUCTED SPURIOUS EMISSION BAND4 QPSK 1RB#0 1.4MHz CH20393

Date: 24.NOV.2017 15:55:20

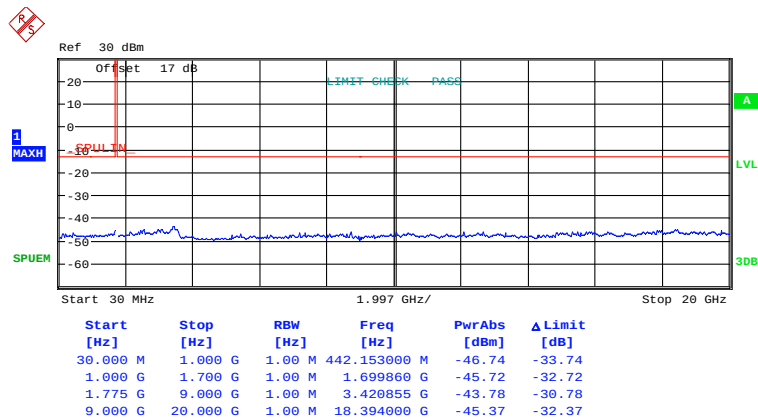


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Report Number: W6M21711-17577-P-247

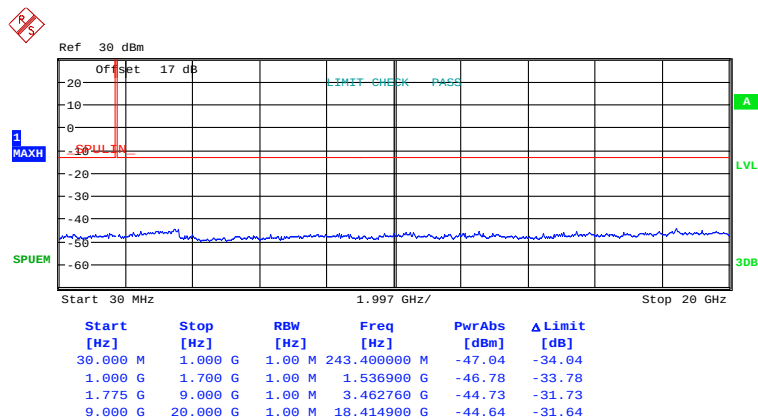
FCC ID: GX9CTC1052LTE

3 MHz QPSK



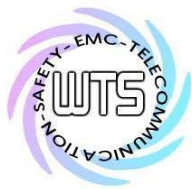
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Date: 24.NOV.2017 17:37:10



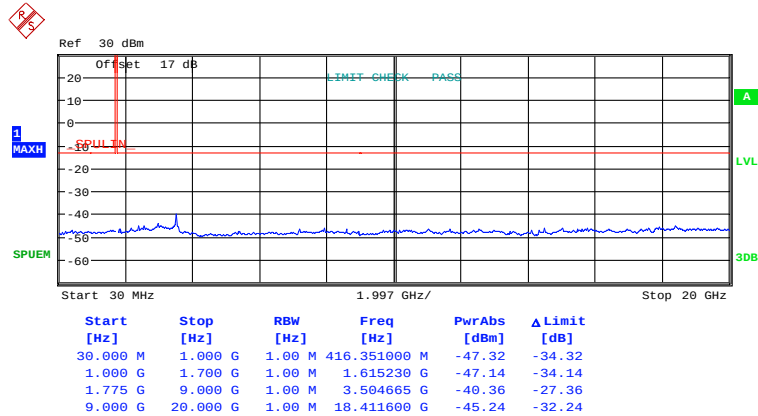
CONDUCTED SPURIOUS EMISSION BAND4 QPSK 1RB#0 3MHz CH20175

Date: 24.NOV.2017 17:37:57



Report Number: W6M21711-17577-P-247

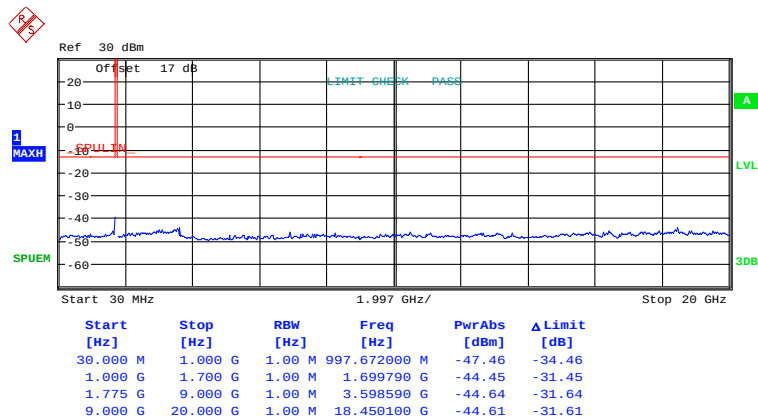
FCC ID: GX9CTC1052LTE



CONDUCTED SPURIOUS EMISSION BAND4 QPSK 1RB#0 3MHz CH20385

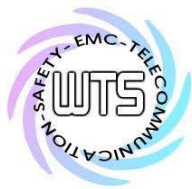
Date: 24.NOV.2017 17:38:36

5 MHz QPSK



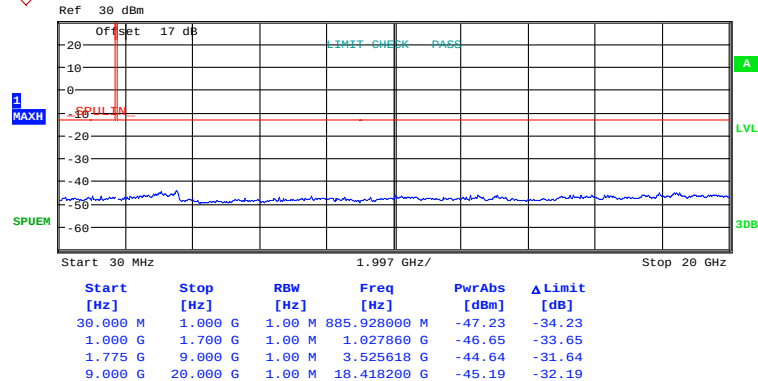
CONDUCTED SPURIOUS EMISSION BAND4 QPSK 1RB#0 5MHz CH19975

Date: 24.NOV.2017 17:46:55



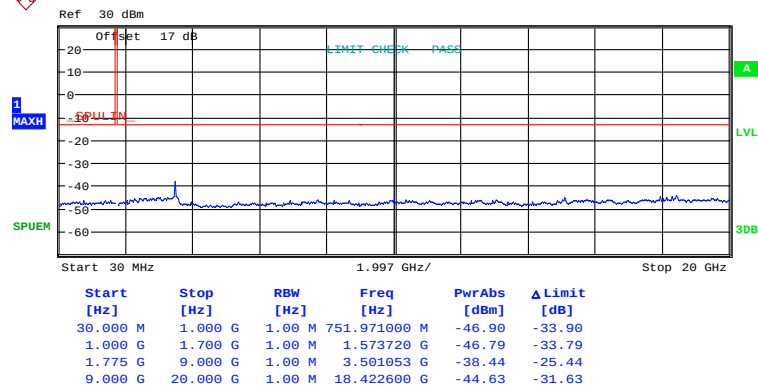
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



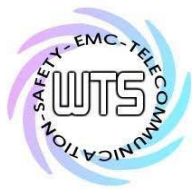
CONDUCTED SPURIOUS EMISSION BAND4 QPSK 1RB#0 5MHz CH20175

Date: 24.NOV.2017 17:46:21



CONDUCTED SPURIOUS EMISSION BAND4 QPSK 1RB#0 5MHz CH20375

Date: 24.NOV.2017 17:45:51

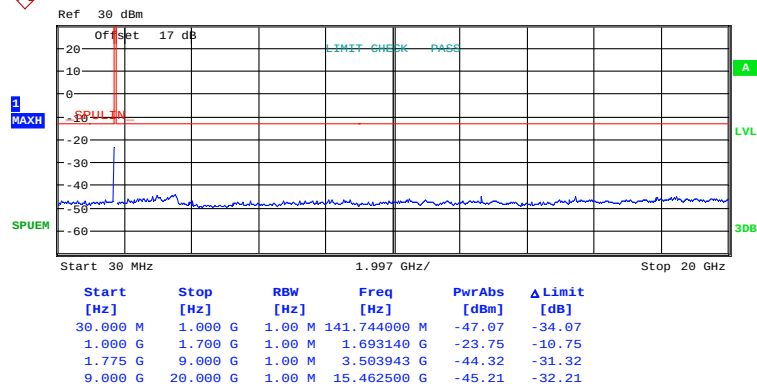


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Report Number: W6M21711-17577-P-247

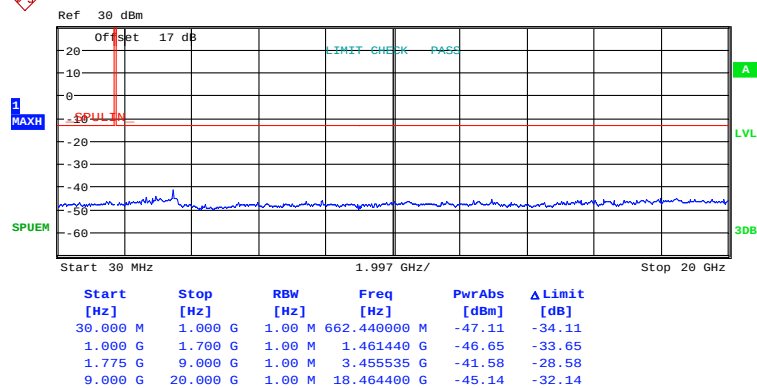
FCC ID: GX9CTC1052LTE

10 MHz QPSK



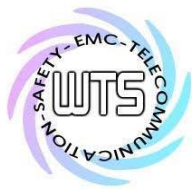
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Date: 24.NOV.2017 17:47:49



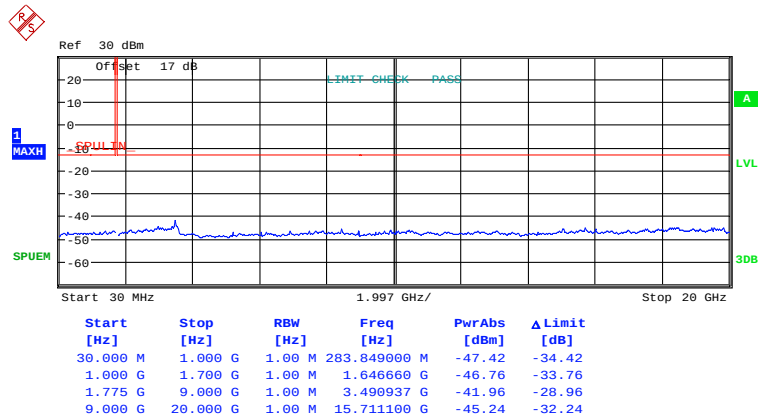
CONDUCTED SPURIOUS EMISSION BAND4 QPSK 1RB#0 10MHz CH20175

Date: 24.NOV.2017 17:48:34



Report Number: W6M21711-17577-P-247

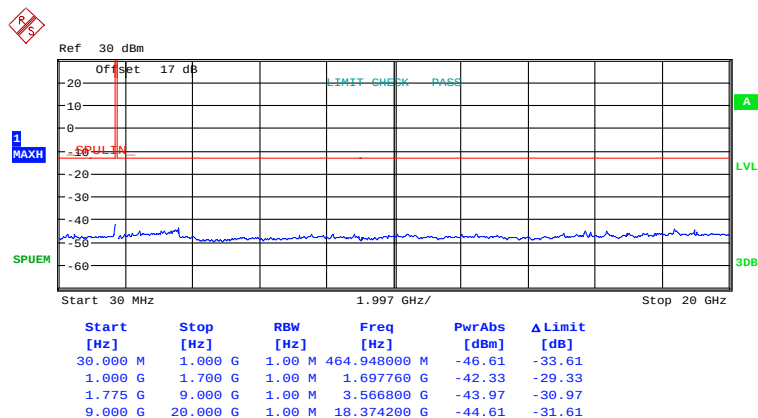
FCC ID: GX9CTC1052LTE



CONDUCTED SPURIOUS EMISSION BAND4 QPSK 1RB#0 10MHz CH20350

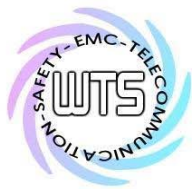
Date: 24.NOV.2017 17:49:25

15 MHz QPSK



CONDUCTED SPURIOUS EMISSION BAND4 QPSK 1RB#0 15MHz CH20025

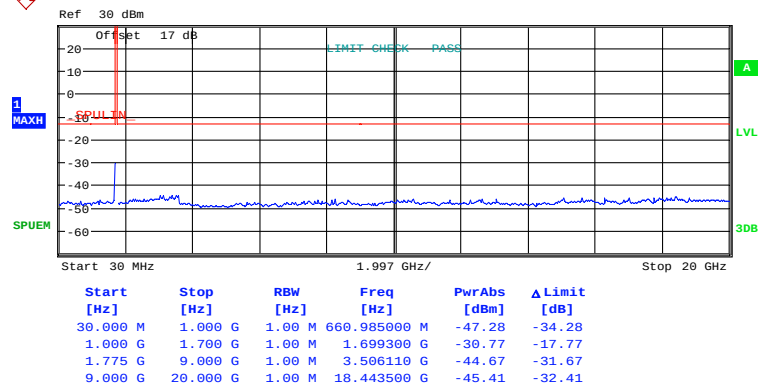
Date: 24.NOV.2017 17:56:15



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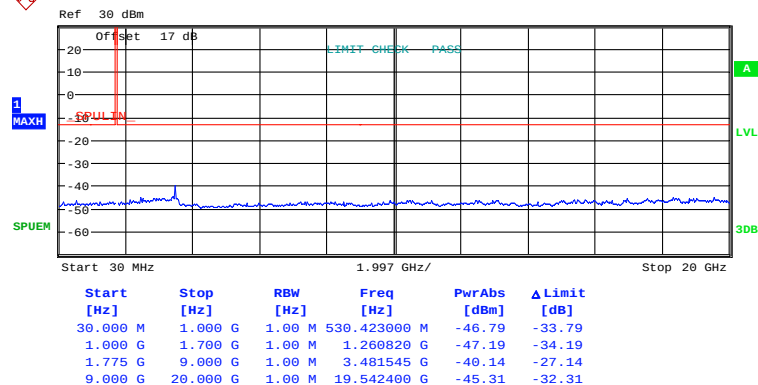
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



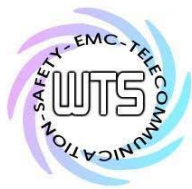
CONDUCTED SPURIOUS EMISSION BAND4 QPSK 1RB#0 15MHz CH20175

Date: 24.NOV.2017 17:55:40



CONDUCTED SPURIOUS EMISSION BAND4 QPSK 1RB#0 15MHz CH20325

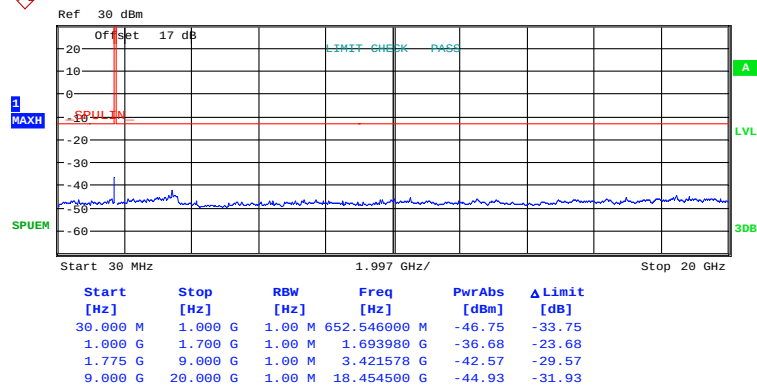
Date: 24.NOV.2017 17:55:08



Report Number: W6M21711-17577-P-247

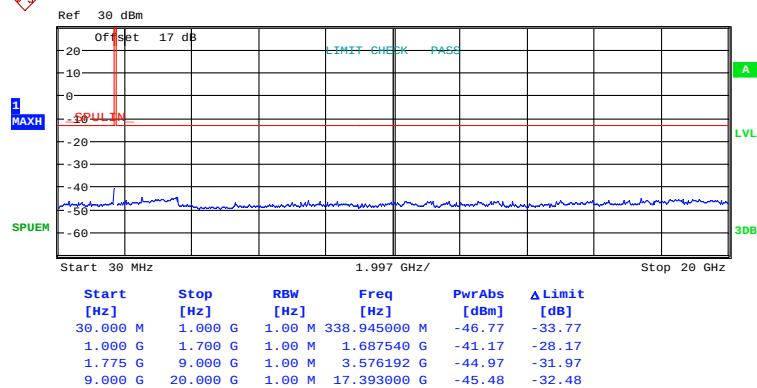
FCC ID: GX9CTC1052LTE

20 MHz QPSK



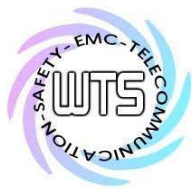
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Date: 24.NOV.2017 17:57:15



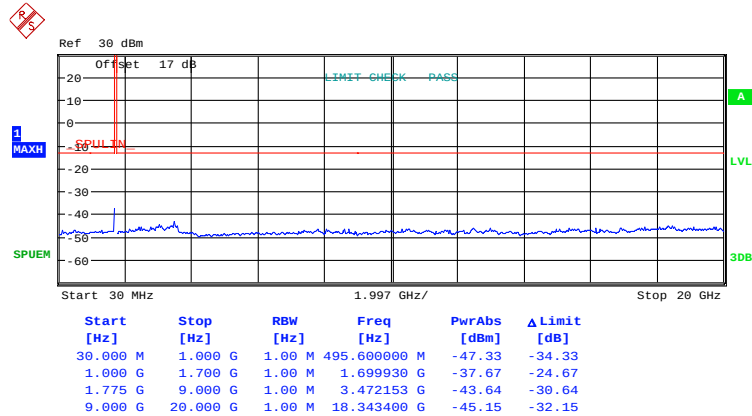
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Date: 24.NOV.2017 17:57:53



Report Number: W6M21711-17577-P-247

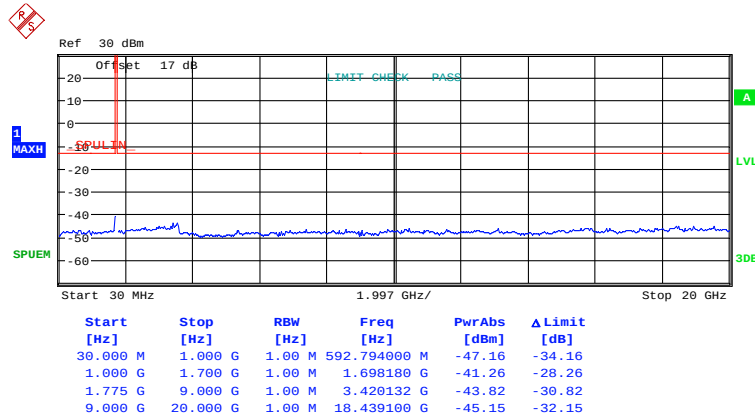
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CONDUCTED SPURIOUS EMISSION BAND4 QPSK 1RB#0 20MHz CH20300

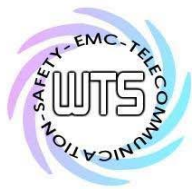
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1.4 MHz 16QAM



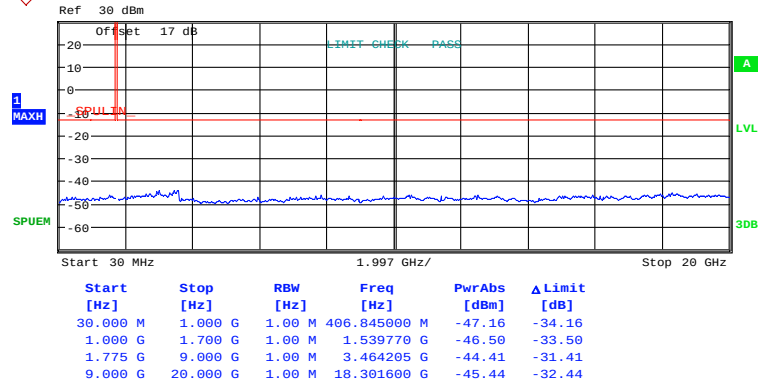
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Date: 24.NOV.2017 15:53:15



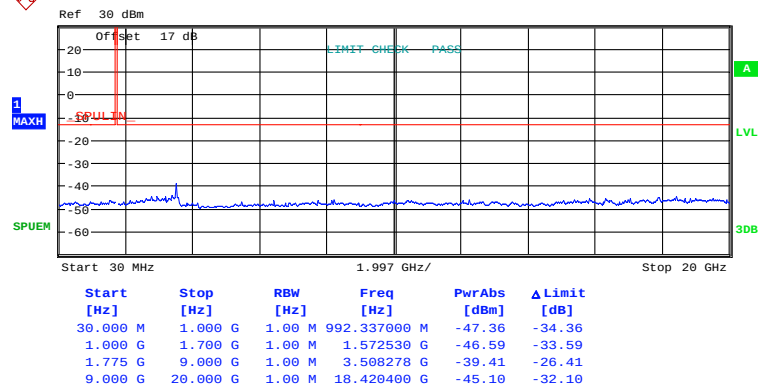
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



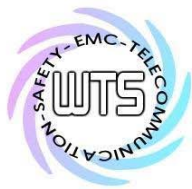
CONDUCTED SPURIOUS EMISSION BAND4 16QAM 1RB#0 1.4MHz CH20175

Date: 24.NOV.2017 15:53:50



CONDUCTED SPURIOUS EMISSION BAND4 16QAM 1RB#0 1.4MHz CH20393

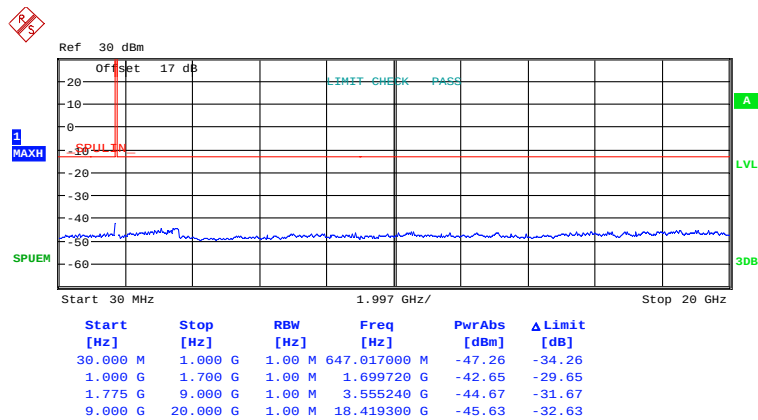
Date: 24.NOV.2017 15:54:37



Report Number: W6M21711-17577-P-247

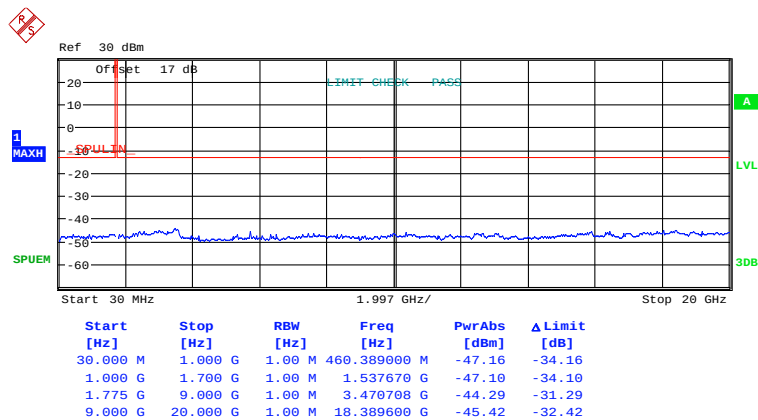
FCC ID: GX9CTC1052LTE

3 MHz 16QAM



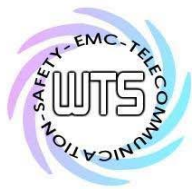
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Date: 24.NOV.2017 17:40:17



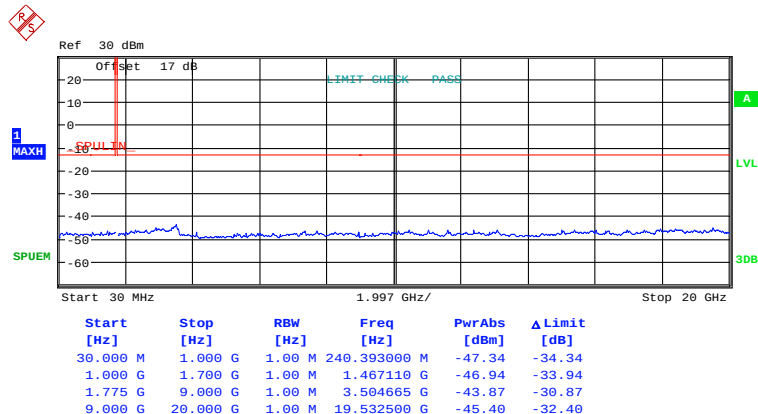
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Date: 24.NOV.2017 17:39:49



Report Number: W6M21711-17577-P-247

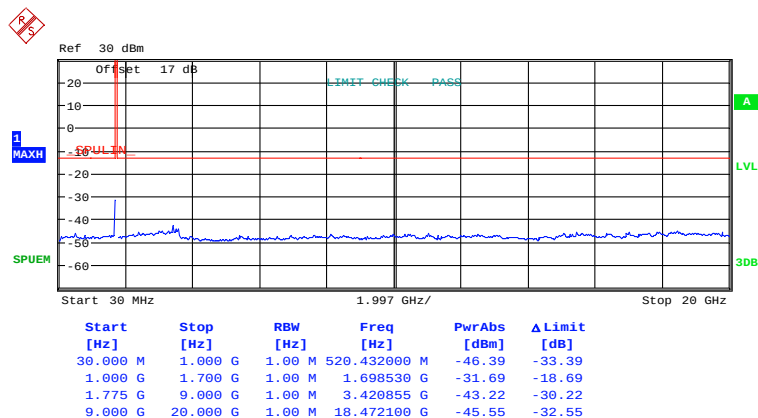
FCC ID: GX9CTC1052LTE



CONDUCTED SPURIOUS EMISSION BAND4 16QAM 1RB#0 3MHz CH20385

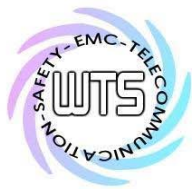
Date: 24.NOV.2017 17:39:18

5 MHz 16QAM



CONDUCTED SPURIOUS EMISSION BAND4 16QAM 1RB#0 5MHz CH19975

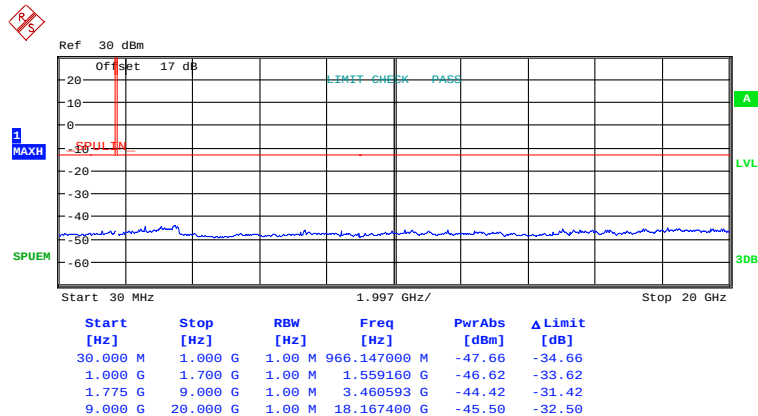
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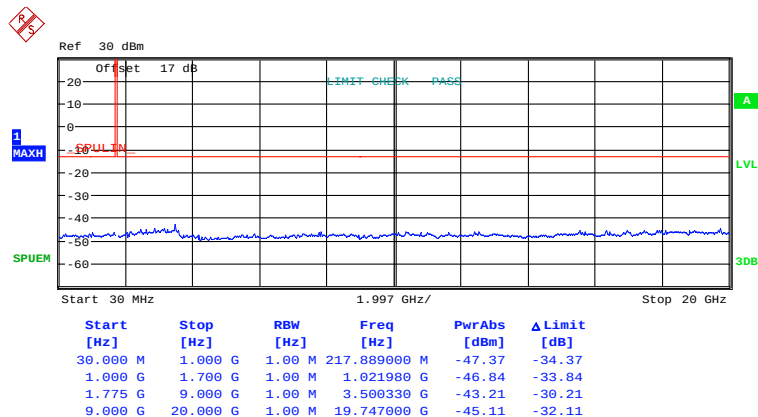
Report Number: W6M21711-17577-P-247

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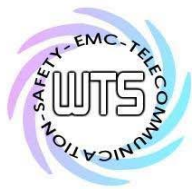
CONDUCTED SPURIOUS EMISSION BAND4 16QAM 1RB#0 5MHz CH20175

Date: 24.NOV.2017 17:42:51



CONDUCTED SPURIOUS EMISSION BAND4 16QAM 1RB#0 5MHz CH20375

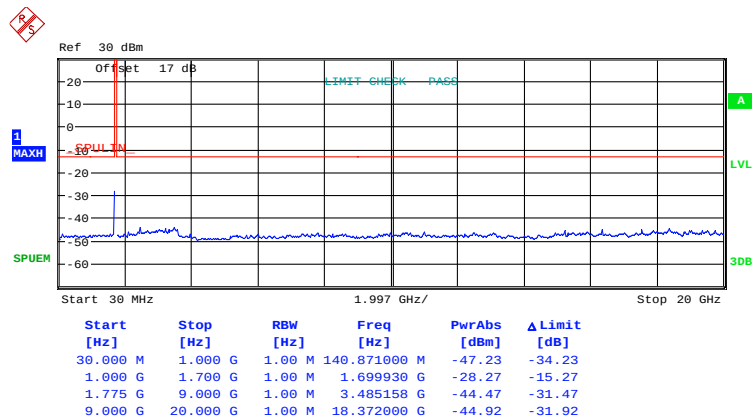
Date: 24.NOV.2017 17:43:28



Report Number: W6M21711-17577-P-247

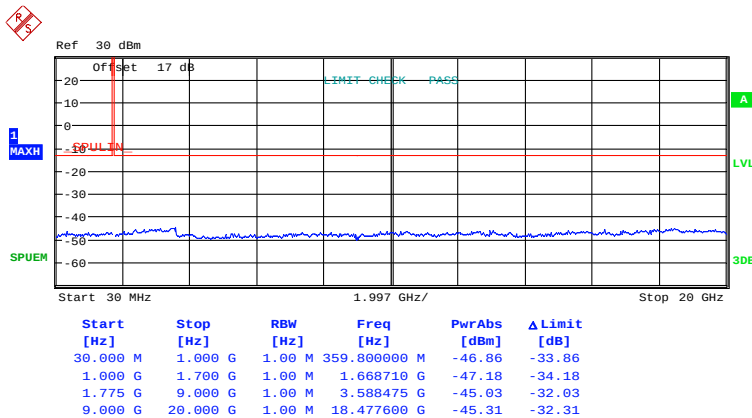
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10 MHz 16QAM



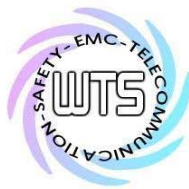
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Date: 24.NOV.2017 17:51:18



CONDUCTED SPURIOUS EMISSION BAND4 16QAM 1RB#0 10MHz CH20175

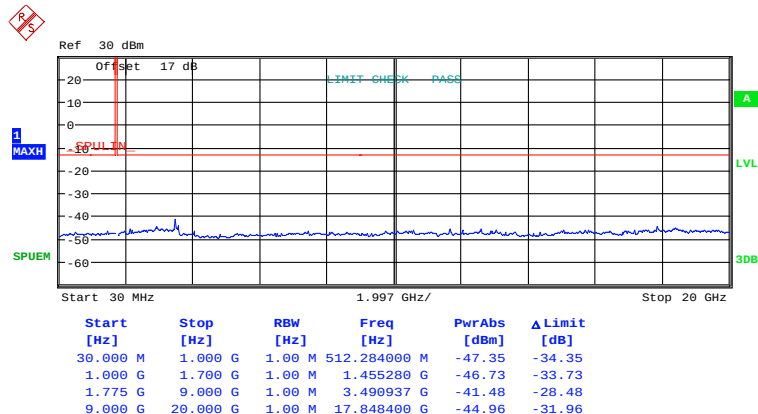
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Report Number: W6M21711-17577-P-247

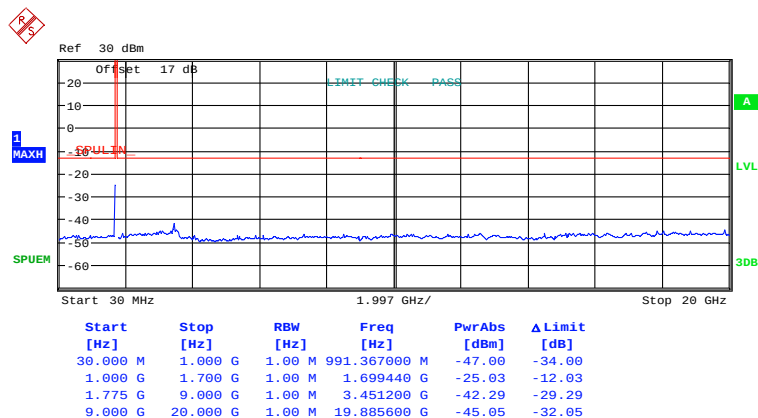
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CONDUCTED SPURIOUS EMISSION BAND4 16QAM 1RB#0 10MHz CH20350

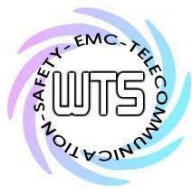
Date: 24.NOV.2017 17:50:08

15 MHz 16QAM



CONDUCTED SPURIOUS EMISSION BAND4 16QAM 1RB#0 15MHz CH20025

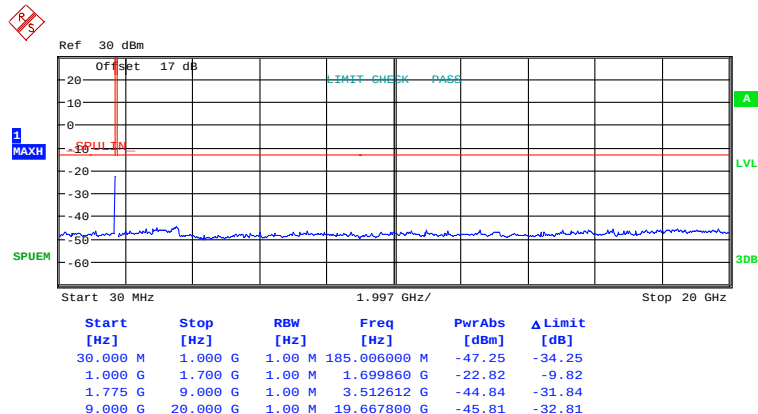
Date: 24.NOV.2017 17:53:16



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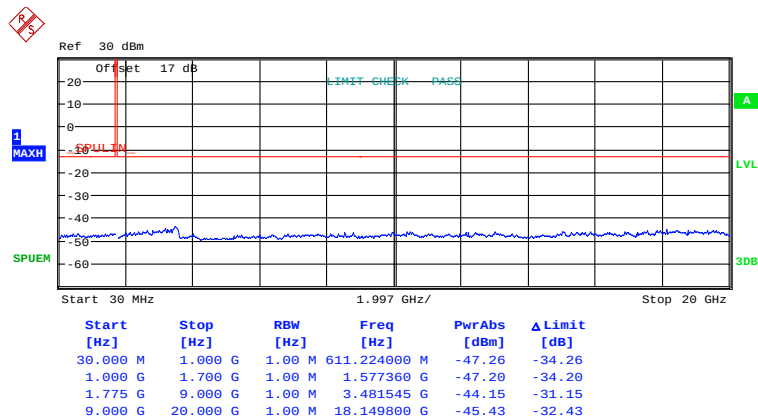
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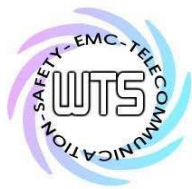
CONDUCTED SPURIOUS EMISSION BAND4 16QAM 1RB#0 15MHz CH20175

Date: 24.NOV.2017 17:53:42



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Date: 24.NOV.2017 17:54:24

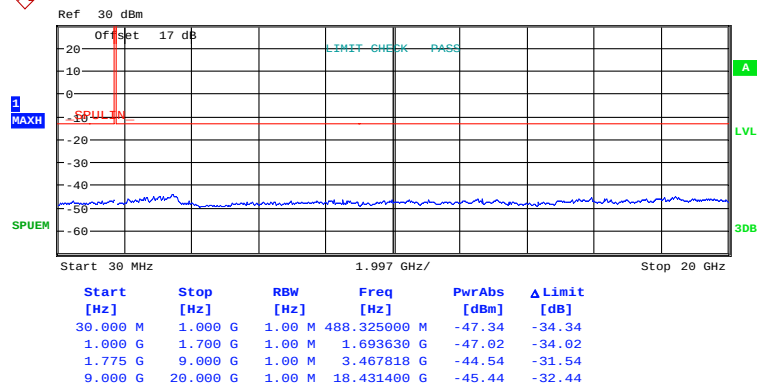


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Report Number: W6M21711-17577-P-247

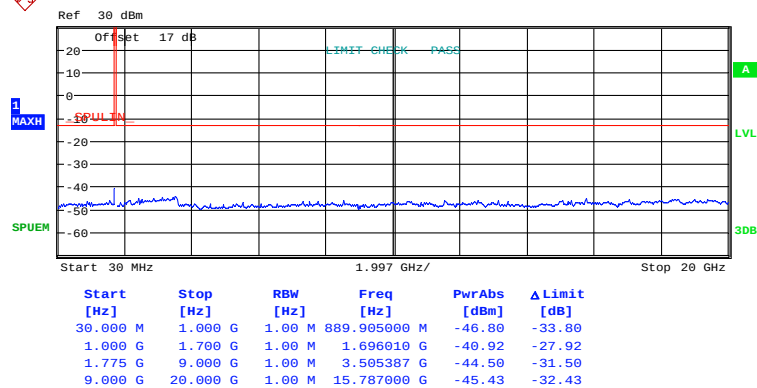
FCC ID: GX9CTC1052LTE

20 MHz 16QAM



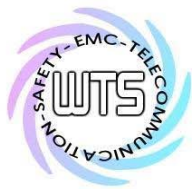
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Date: 24.NOV.2017 17:59:56



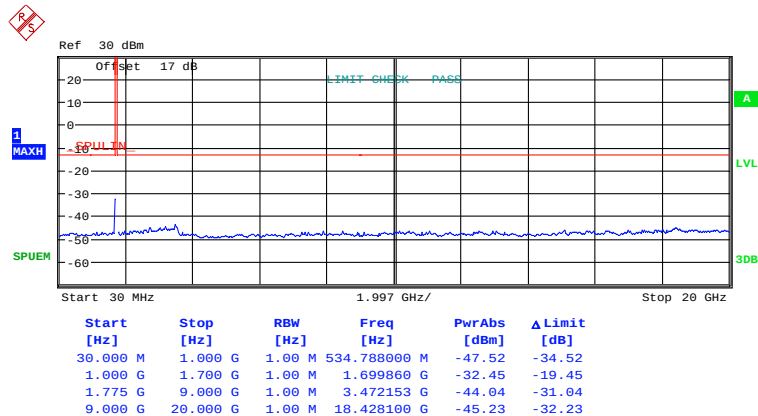
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Date: 24.NOV.2017 17:59:24



Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

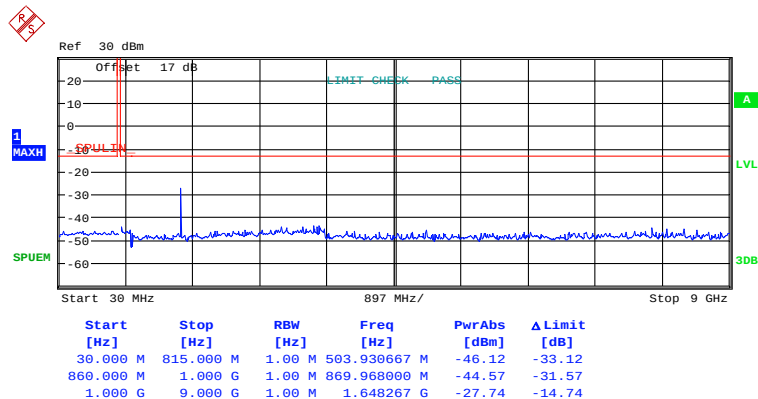


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Date: 24.NOV.2017 17:59:00

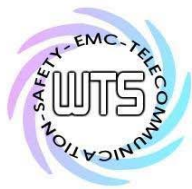
Band 5

1.4 MHz QPSK



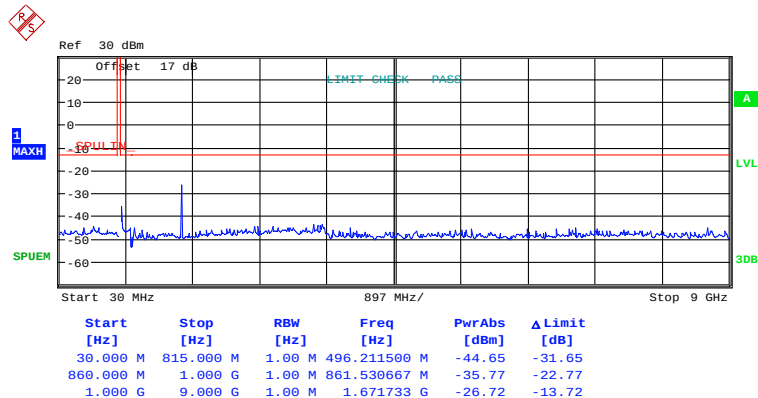
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Date: 27.NOV.2017 11:09:45



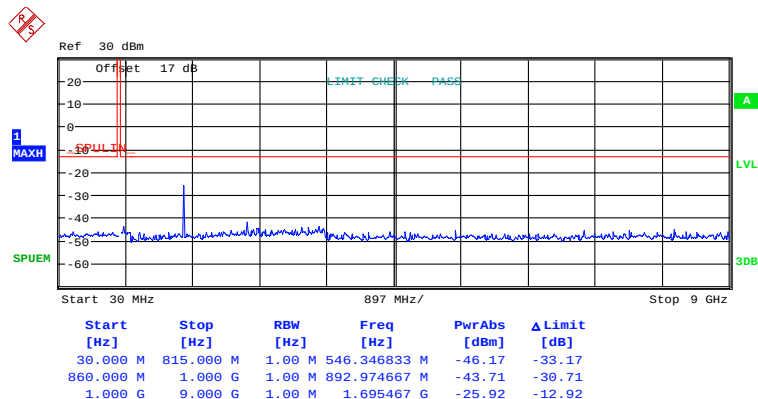
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



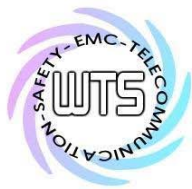
CONDUCTED SPURIOUS EMISSION BAND5 QPSK 1RB#0 1.4MHz CH20525

Date: 27.NOV.2017 11:08:50



CONDUCTED SPURIOUS EMISSION BAND5 QPSK 1RB#0 1.4MHz CH20643

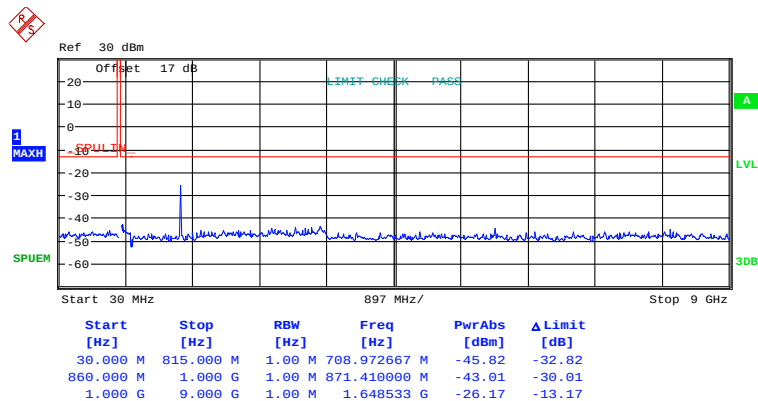
Date: 27.NOV.2017 11:08:10



Report Number: W6M21711-17577-P-247

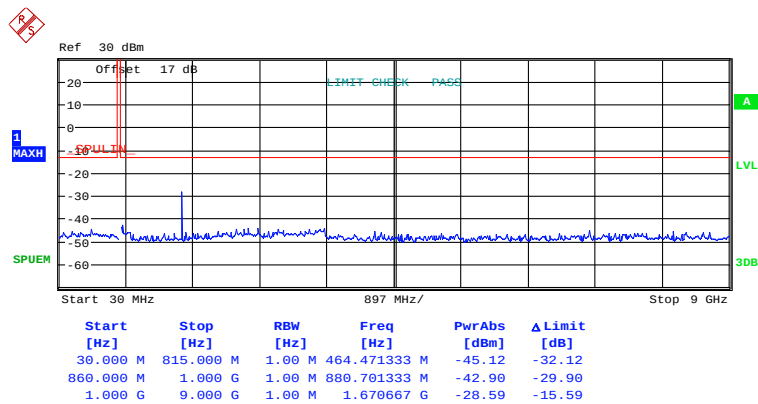
FCC ID: GX9CTC1052LTE

3 MHz QPSK



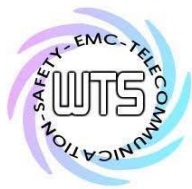
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Date: 27.NOV.2017 11:10:49



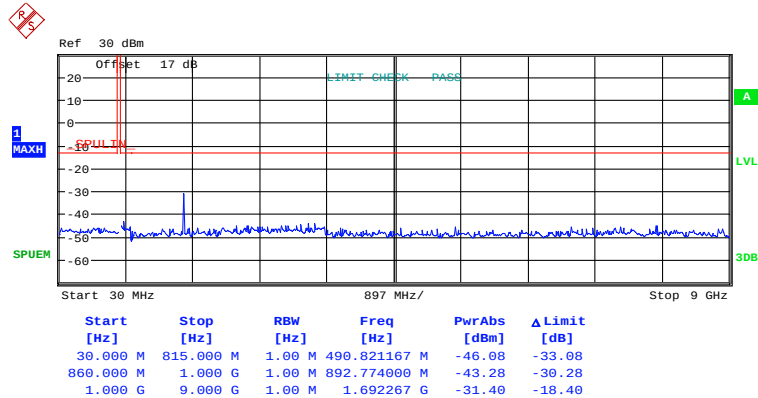
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Date: 27.NOV.2017 11:11:32



Report Number: W6M21711-17577-P-247

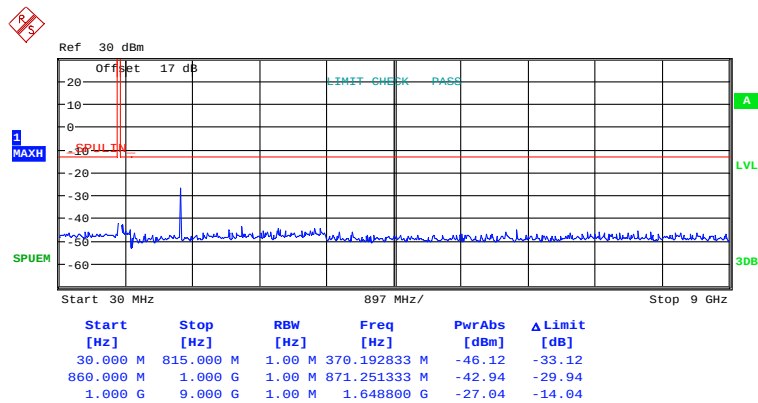
FCC ID: GX9CTC1052LTE



CONDUCTED SPURIOUS EMISSION BAND5 QPSK 1RB#0 3MHz CH20635

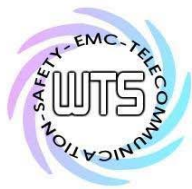
Date: 27.NOV.2017 11:13:10

5 MHz QPSK



CONDUCTED SPURIOUS EMISSION BAND5 QPSK 1RB#0 5MHz CH20425

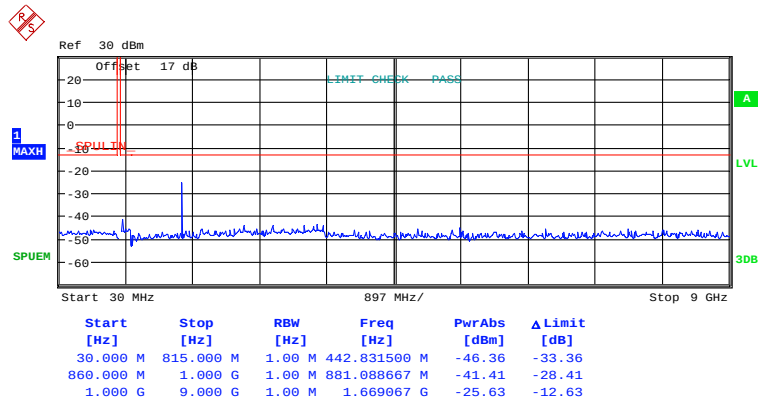
Date: 27.NOV.2017 11:20:04



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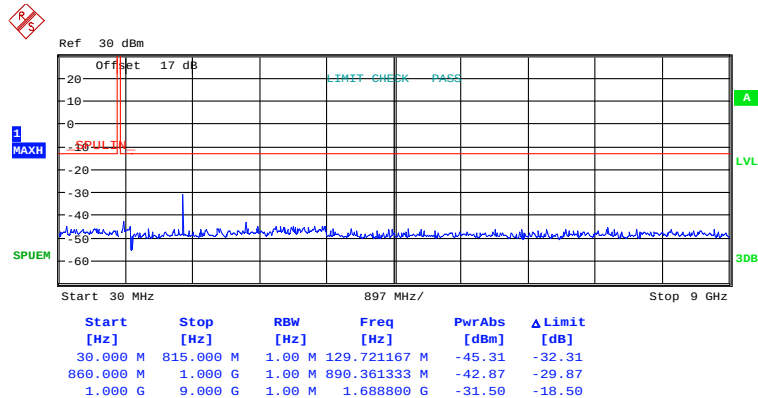
Report Number: W6M21711-17577-P-247

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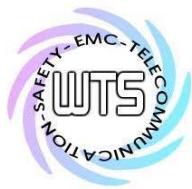
CONDUCTED SPURIOUS EMISSION BAND5 QPSK 1RB#0 5MHz CH20525

Date: 27.NOV.2017 11:19:25



CONDUCTED SPURIOUS EMISSION BAND5 QPSK 1RB#0 5MHz CH20625

Date: 27.NOV.2017 11:18:59

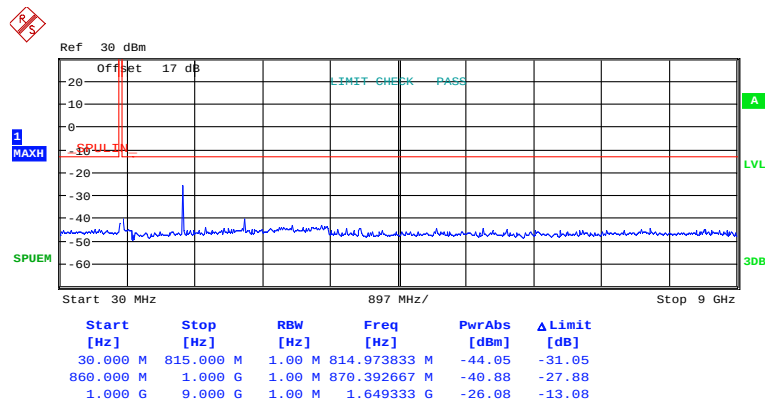


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Report Number: W6M21711-17577-P-247

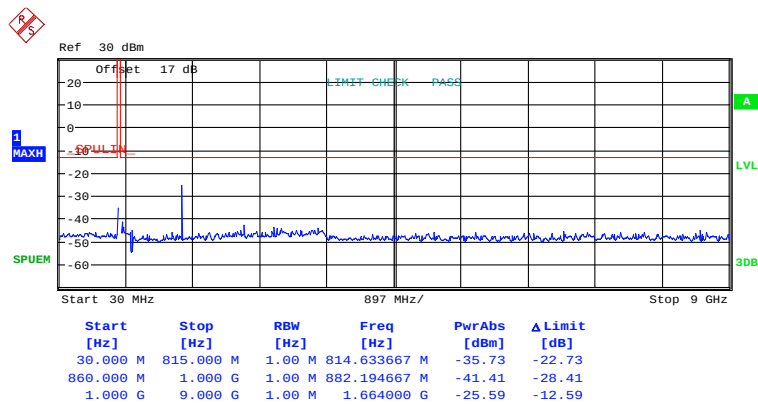
FCC ID: GX9CTC1052LTE

10 MHz QPSK



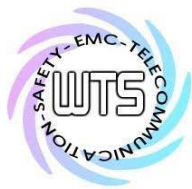
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Date: 27.NOV.2017 11:25:16



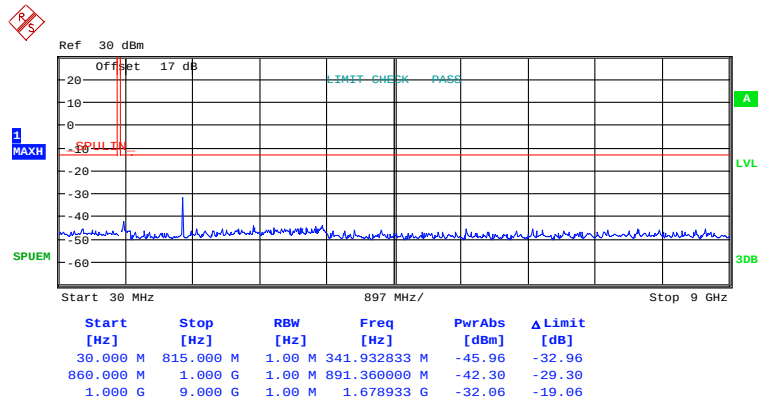
CONDUCTED SPURIOUS EMISSION BAND5 QPSK 1RB#0 10MHz CH20525

Date: 27.NOV.2017 11:25:54



Report Number: W6M21711-17577-P-247

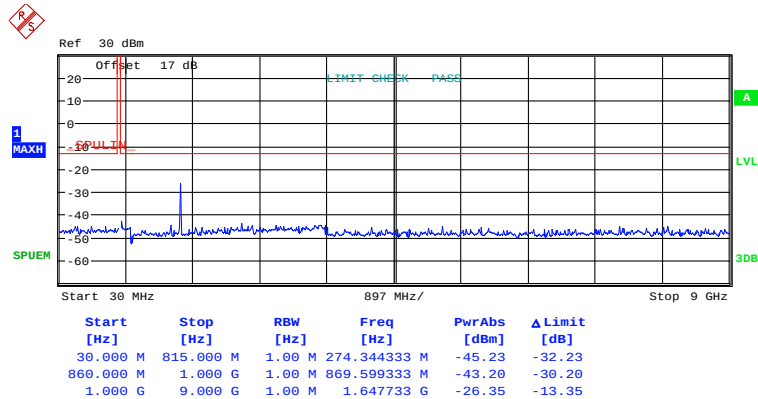
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CONDUCTED SPURIOUS EMISSION BAND5 QPSK 1RB#0 10MHz CH20600

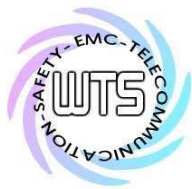
Date: 27.NOV.2017 11:26:23

1.4 MHz 16QAM



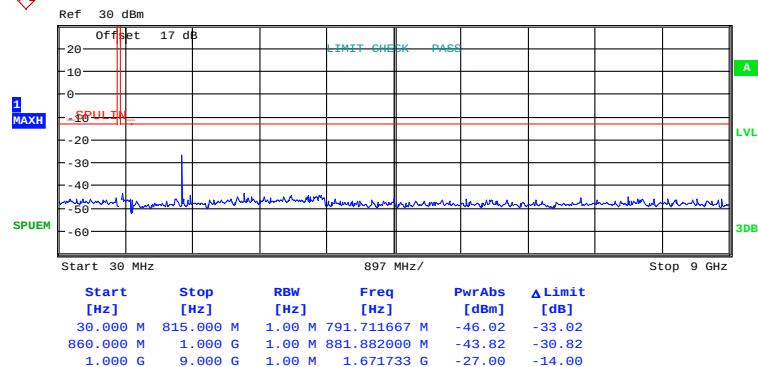
CONDUCTED SPURIOUS EMISSION BAND5 16QAM 1RB#0 1.4MHz CH20407

Date: 27.NOV.2017 11:05:01



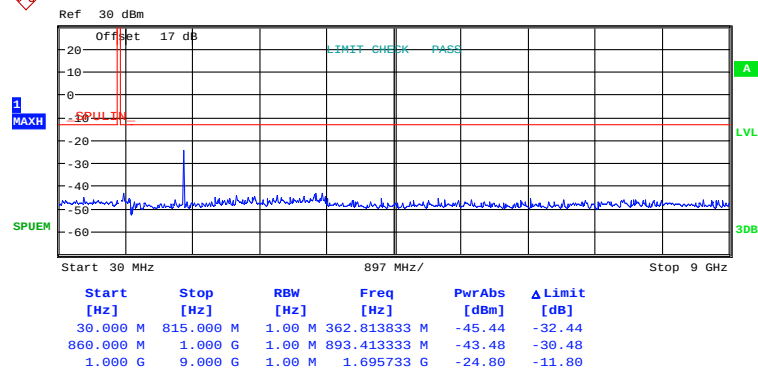
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



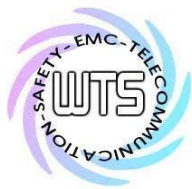
CONDUCTED SPURIOUS EMISSION BAND5 16QAM 1RB#0 1.4MHz CH20525

Date: 27.NOV.2017 11:06:43



CONDUCTED SPURIOUS EMISSION BAND5 16QAM 1RB#0 1.4MHz CH20643

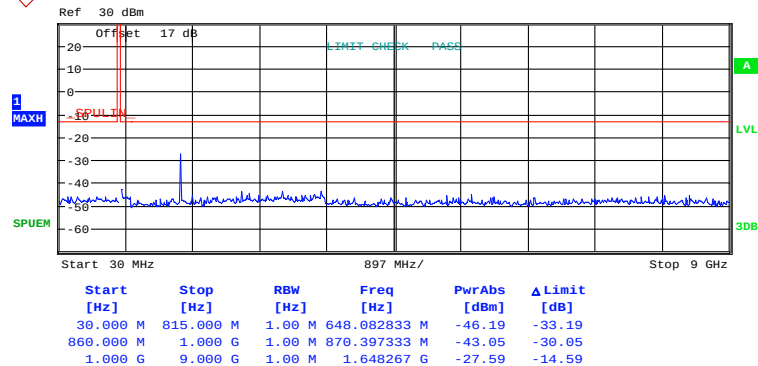
Date: 27.NOV.2017 11:07:21



Report Number: W6M21711-17577-P-247

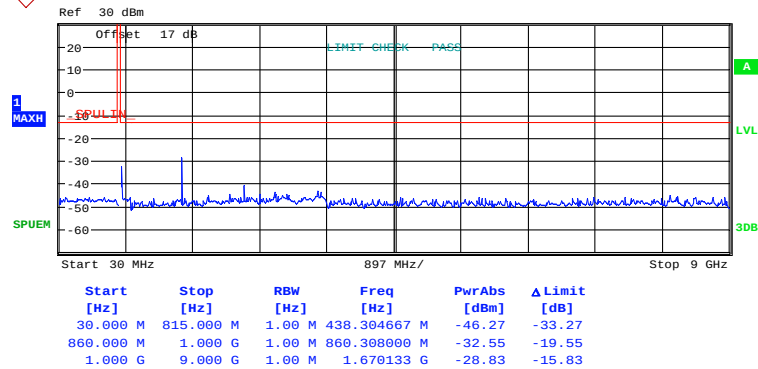
FCC ID: GX9CTC1052LTE

3 MHz 16QAM



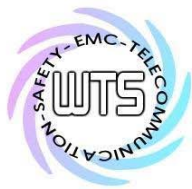
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Date: 27.NOV.2017 11:16:16



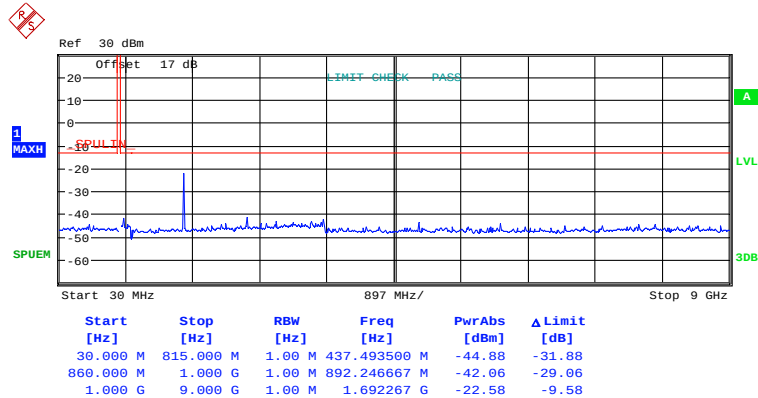
CONDUCTED SPURIOUS EMISSION BAND5 16QAM 1RB#0 3MHz CH20525

Date: 27.NOV.2017 11:15:42



Report Number: W6M21711-17577-P-247

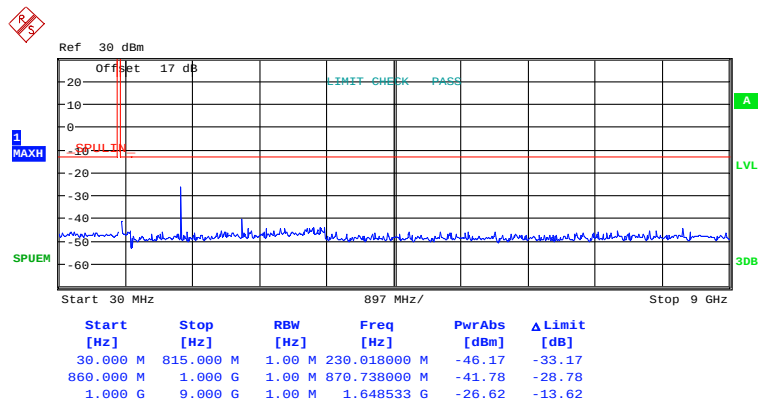
FCC ID: GX9CTC1052LTE



CONDUCTED SPURIOUS EMISSION BAND5 16QAM 1RB#0 3MHz CH20635

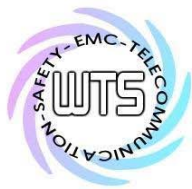
Date: 27.NOV.2017 11:15:08

5 MHz 16QAM



CONDUCTED SPURIOUS EMISSION BAND5 16QAM 1RB#0 5MHz CH20425

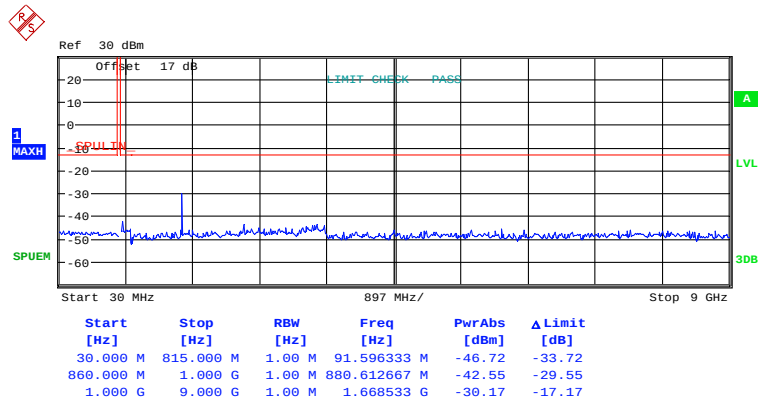
Date: 27.NOV.2017 11:17:20



Worldwide Testing Services(Taiwan) Co., Ltd.

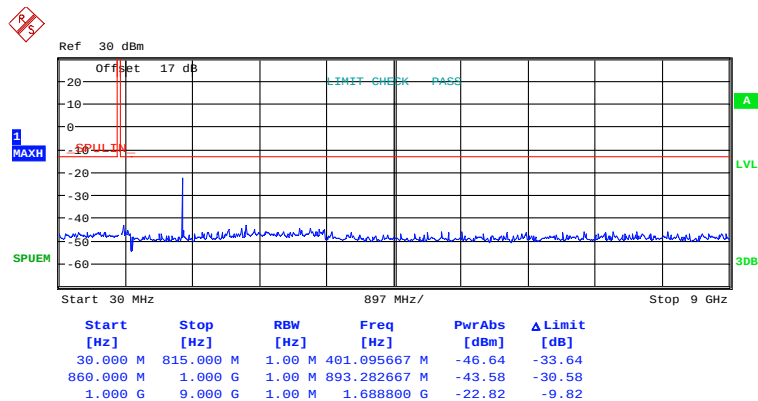
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



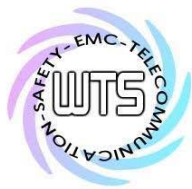
CONDUCTED SPURIOUS EMISSION BAND5 16QAM 1RB#0 5MHz CH20525

Date: 27.NOV.2017 11:17:53



CONDUCTED SPURIOUS EMISSION BAND5 16QAM 1RB#0 5MHz CH20625

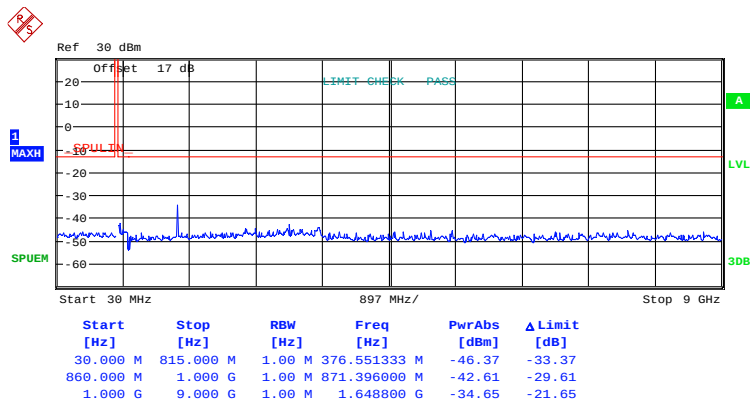
Date: 27.NOV.2017 11:18:16



Report Number: W6M21711-17577-P-247

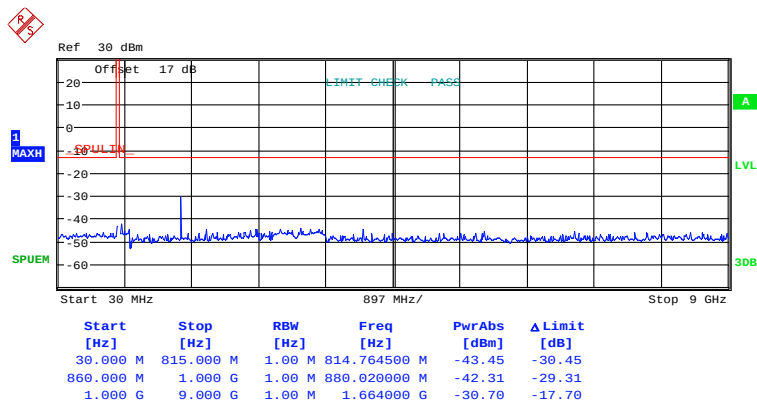
FCC ID: GX9CTC1052LTE

10 MHz 16QAM



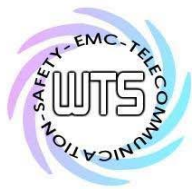
CONDUCTED SPURIOUS EMISSION BAND5 16QAM 1RB#0 10MHz CH20450

Date: 27.NOV.2017 11:28:52



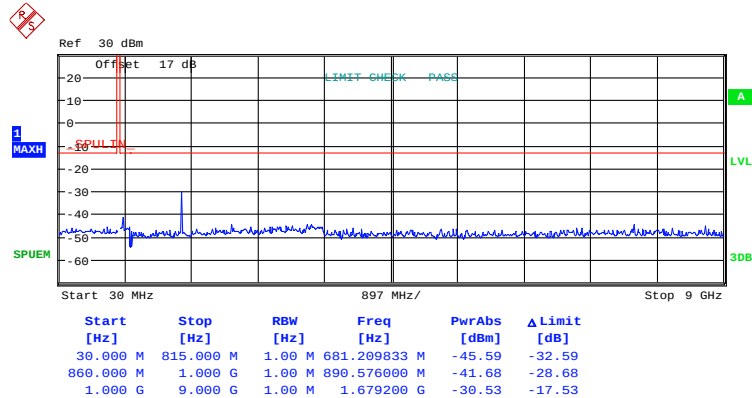
CONDUCTED SPURIOUS EMISSION BAND5 16QAM 1RB#0 10MHz CH20525

Date: 27.NOV.2017 11:28:18



Report Number: W6M21711-17577-P-247

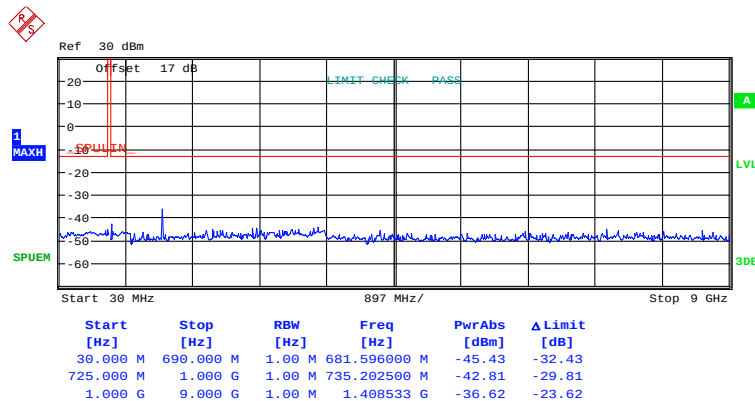
FCC ID: GX9CTC1052LTE



CONDUCTED SPURIOUS EMISSION BAND5 16QAM 1RB#0 10MHz CH20600

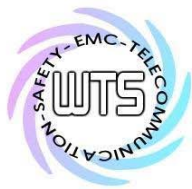
Date: 27.NOV.2017 11:27:50

Band 17
5 MHz QPSK



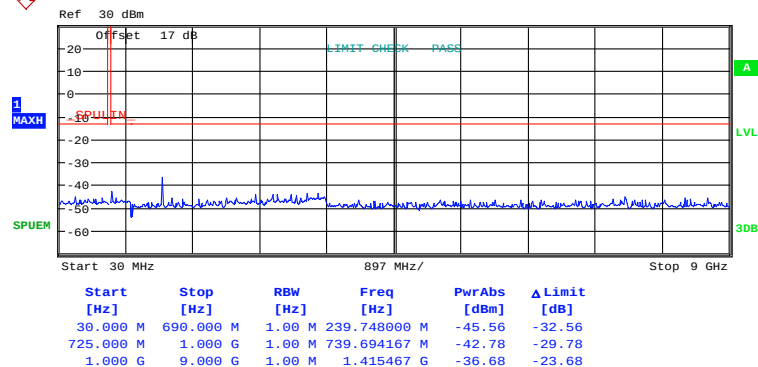
CONDUCTED SPURIOUS EMISSION BAND17 QPSK 1RB#0 5MHz CH23755

Date: 27.NOV.2017 11:43:05



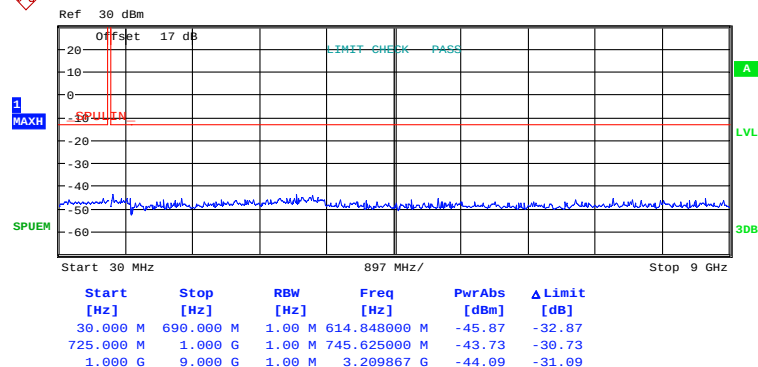
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



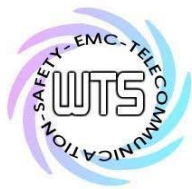
CONDUCTED SPURIOUS EMISSION BAND17 QPSK 1RB#0 5MHz CH23790

Date: 27.NOV.2017 11:42:40



CONDUCTED SPURIOUS EMISSION BAND17 QPSK 1RB#0 5MHz CH23825

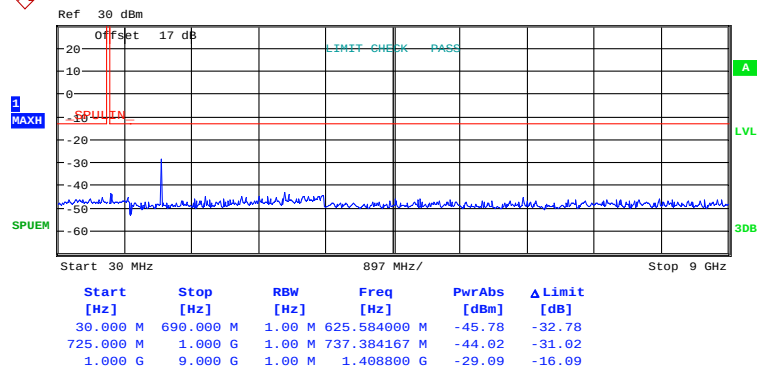
Date: 27.NOV.2017 11:42:15



Report Number: W6M21711-17577-P-247

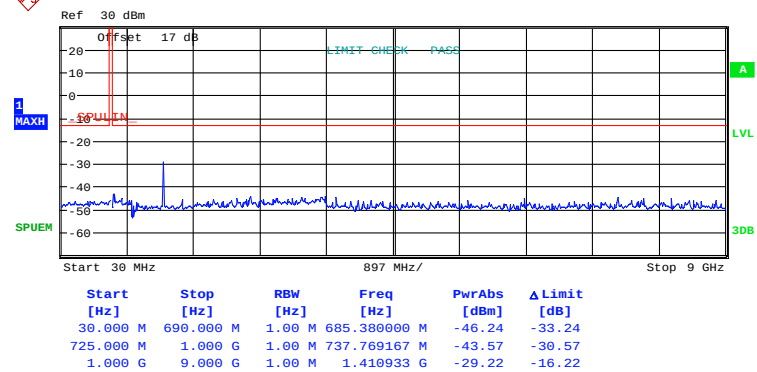
FCC ID: GX9CTC1052LTE

10 MHz QPSK



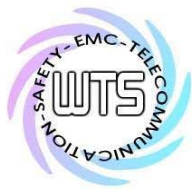
CONDUCTED SPURIOUS EMISSION BAND17 QPSK 1RB#0 10MHz CH23780

Date: 27.NOV.2017 11:43:57



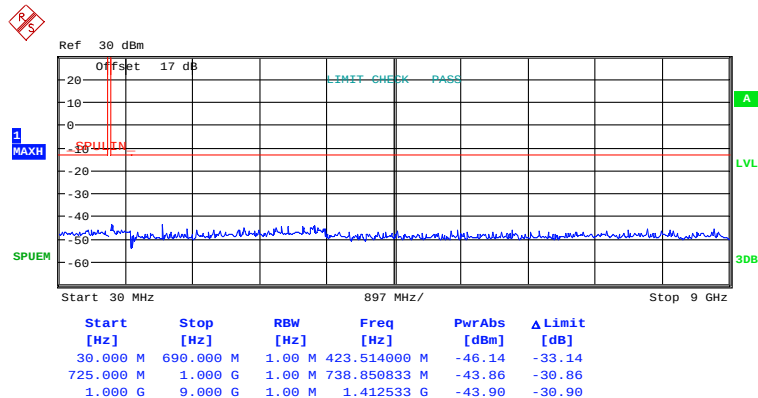
CONDUCTED SPURIOUS EMISSION BAND17 QPSK 1RB#0 10MHz CH23790

Date: 27.NOV.2017 11:44:29



Report Number: W6M21711-17577-P-247

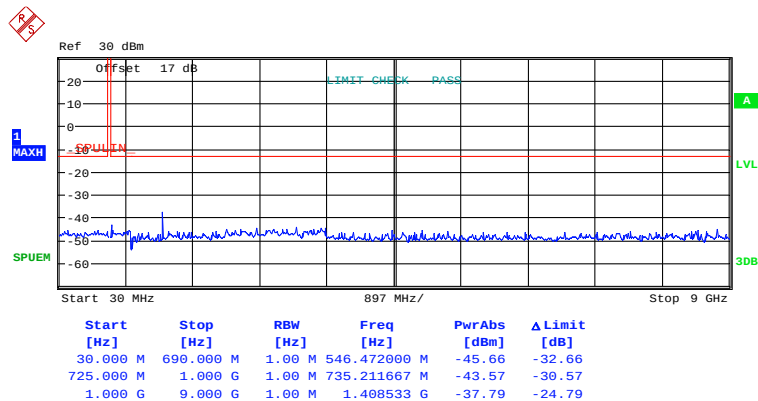
FCC ID: GX9CTC1052LTE



CONDUCTED SPURIOUS EMISSION BAND17 QPSK 1RB#0 10MHz CH23800

Date: 27.NOV.2017 11:44:55

5 MHz 16QAM

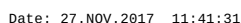
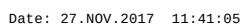


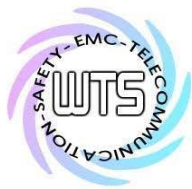
CONDUCTED SPURIOUS EMISSION BAND17 16QAM 1RB#0 5MHz CH23755

Date: 27.NOV.2017 11:40:35



FCC ID: GX9CTC1052LTE

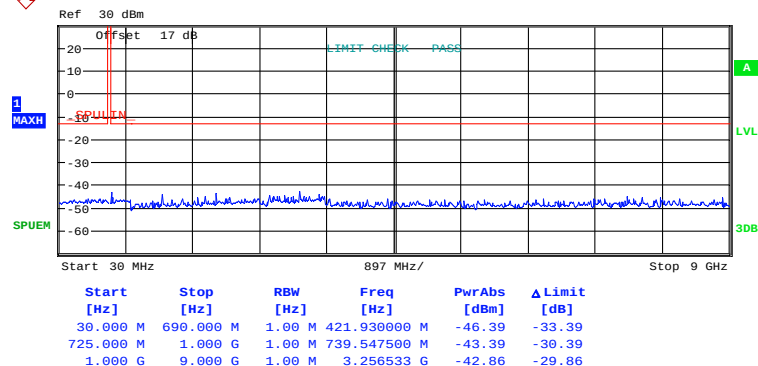




Report Number: W6M21711-17577-P-247

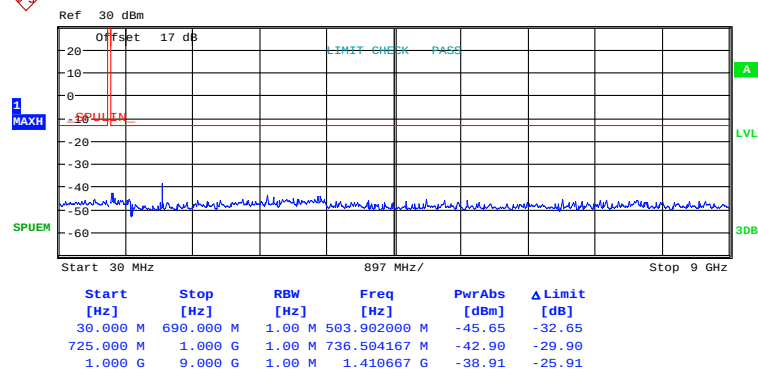
FCC ID: GX9CTC1052LTE

10 MHz 16QAM



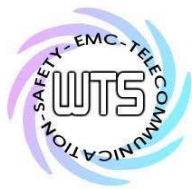
CONDUCTED SPURIOUS EMISSION BAND17 16QAM 1RB#0 10MHz CH23780

Date: 27.NOV.2017 11:46:42



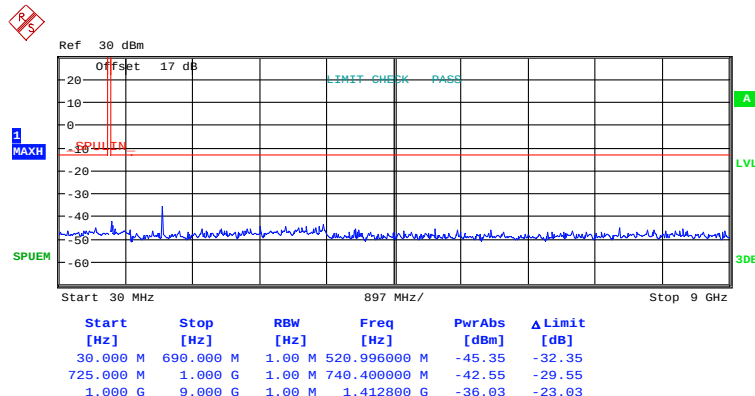
CONDUCTED SPURIOUS EMISSION BAND17 16QAM 1RB#0 10MHz CH23790

Date: 27.NOV.2017 11:46:12



Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



CONDUCTED SPURIOUS EMISSION BAND17 16QAM 1RB#0 10MHz CH23800

Date: 27.NOV.2017 11:45:46

Test equipment: ETSTW-RE 055, ETSTW-GSM 004, ETSTW-GSM 023

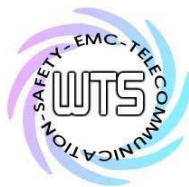
7.3 Explanation of test result

All factors like cable loss and external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

7.4 Calculation of Limit for Spurious at Antenna Terminals

Compliance with § 22.917, §24.238, §27.53 requires that any emission be attenuated below the transmitter power at least $43 + 10 \log P$ (P = transmitter power in Watts).

Limit for Spurious Emissions at Antenna Terminals: $L=P-A=-13\text{dBm}$



Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

8. Field Strength of Spurious Radiation

8.1 Test procedure

The test procedure for filed strength measurement is same as radiated power except for a notch filter or band pass filter is used to avoid the influence of fundamental to the pre-amplifier.

The measurements below 1GHz were performed with a measurement bandwidth of 100kHz, above 1GHz with a bandwidth of 1 MHz.

8.2 Test Results

The measurements of the spurious emission are at the upper, center and lower channel.

CTC-1052xxx-							
Model:	xxxxx Series			Date:			
	(x=0~9, A~Z or blank)						
Mode:		Temperature:		--	°C	Engineer: --	
Polarization: Horizontal		Humidity:		--	%		
Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

Polarization: Vertical							
Frequency (MHz)	Reading (dBm) Peak	Factor (dB) Corr.	Result (dBm)	Limit (dBm)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

- Note**
1. **Correction Factor = Antenna factor + Cable loss - Preamplifier**
 2. **The formula of measured value as: Test Result = Reading + Correction Factor**
 3. **Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
 4. **All not in the table noted test results are more than 20 dB below the relevant limits.**
 5. **Measurement uncertainty above 30-200 MHz = ± 2.11 dB, 200-1000 MHz: ± 2.09 dB, 1-18 GHz = ± 3.09 dB, 18-40 GHz = ± 2.71 dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.**
 6. **See attached diagrams in appendix.**

8.3 Explanation of test result

Result Level = Reading Level + Corrected Factor

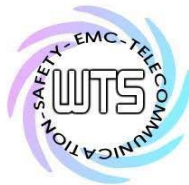
Corrected Factor = SG level – Received level-Cable loss + substitution antenna gain

8.4 Calculation of Limit for Field Strength of Spurious

Compliance with § 22.917, § 24.238, § 27.53 requires that any emission be attenuated below the transmitter power at least $43 + 10 \log P$ (P = transmitter power in Watts).

Limit for Spurious Emissions at Antenna Terminals: $L=P-A=-13\text{dBm}$

Test equipment: ETSTW-RE 004, ETSTW-RE 018, ETSTW-RE 030, ETSTW-RE 062,
ETSTW-RE 142, ETSTW-RE 147, ETSTW-GSM 004



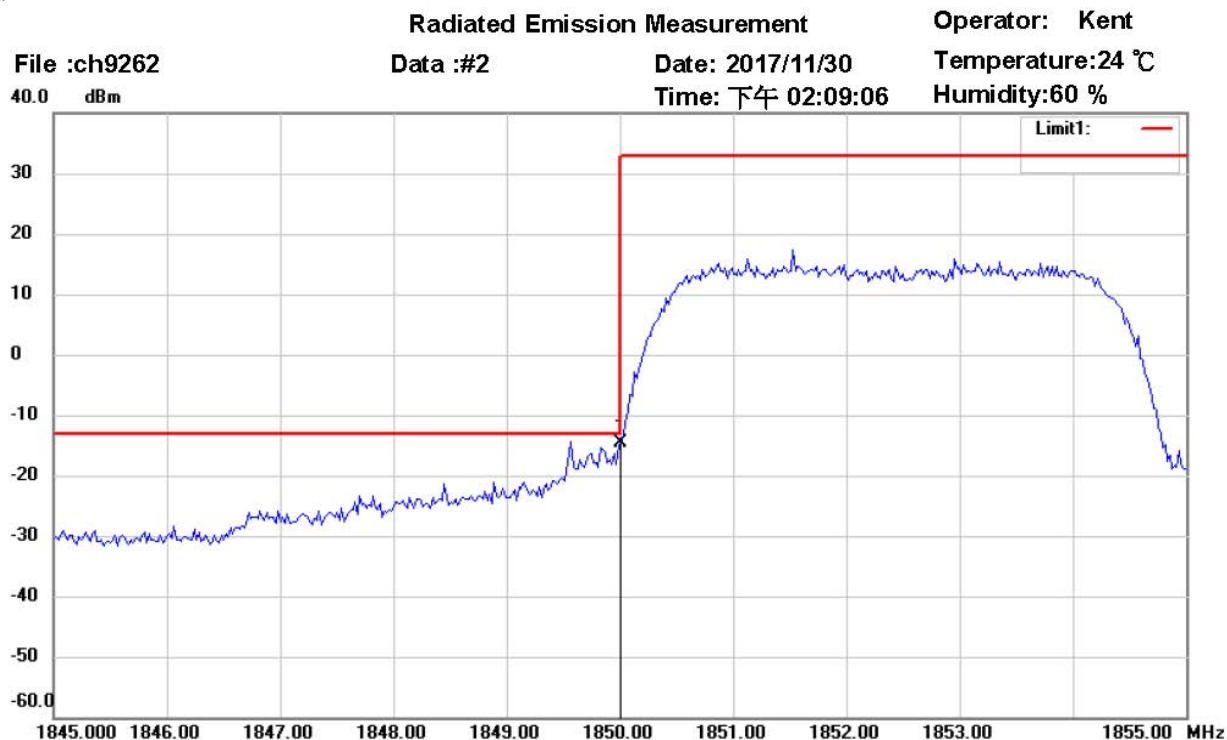
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

8.5 Test result of band edge emissions

WCDMA

Band 2



Site : Chamber

Condition : FCC_part 24 Bandedge

EUT : W6M21711-17577

M/N:

Test Mode : WCDMA BAND2 CH9262

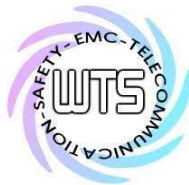
Note :

Polarization: *Horizontal*

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1850.000	-58.69	peak	44.16	-14.53	-13.00	150	180	-1.53	



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

Radiated Emission Measurement

Operator: Kent

File :ch9262

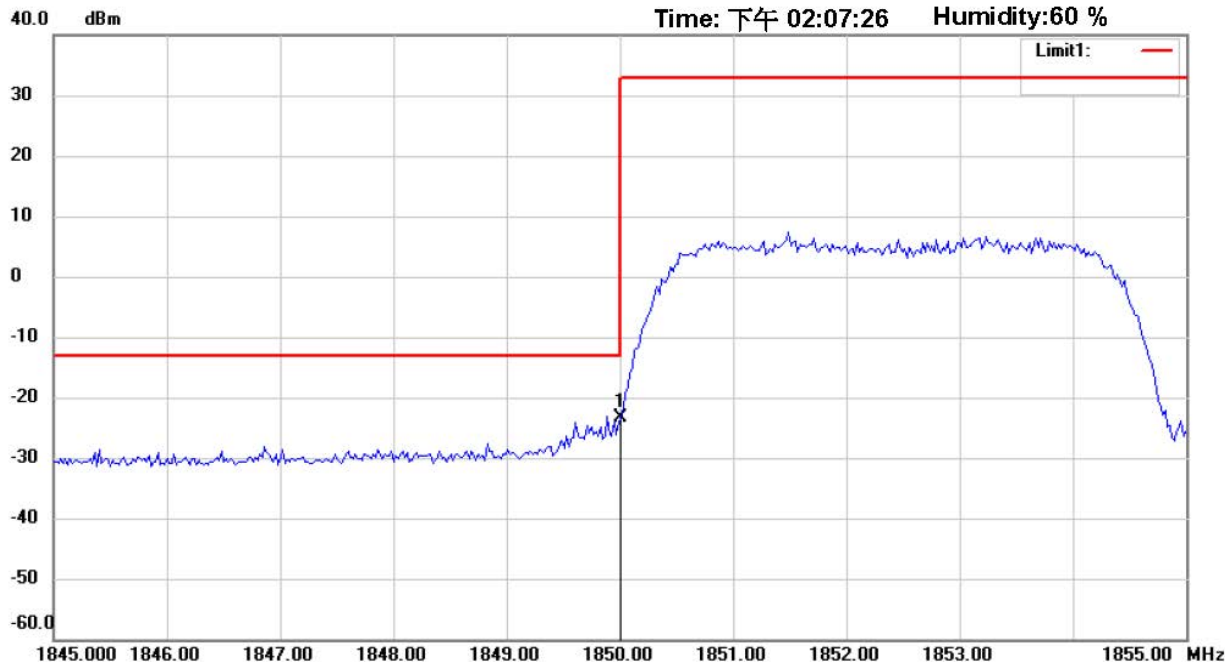
Data :#1

Date: 2017/11/30

Temperature:24 °C

Time: 下午 02:07:26

Humidity:60 %



Site : Chamber

Condition : FCC_part 24 Bandedge

EUT : W6M21711-17577

M/N:

Test Mode : WCDMA BAND2 CH9262

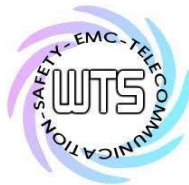
Note :

Polarization: *Vertical*

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1850.000	-68.77	peak	45.39	-23.38	-13.00	150	40	-10.38	



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

Radiated Emission Measurement

Operator: Kent

File :ch9538

Data :#2

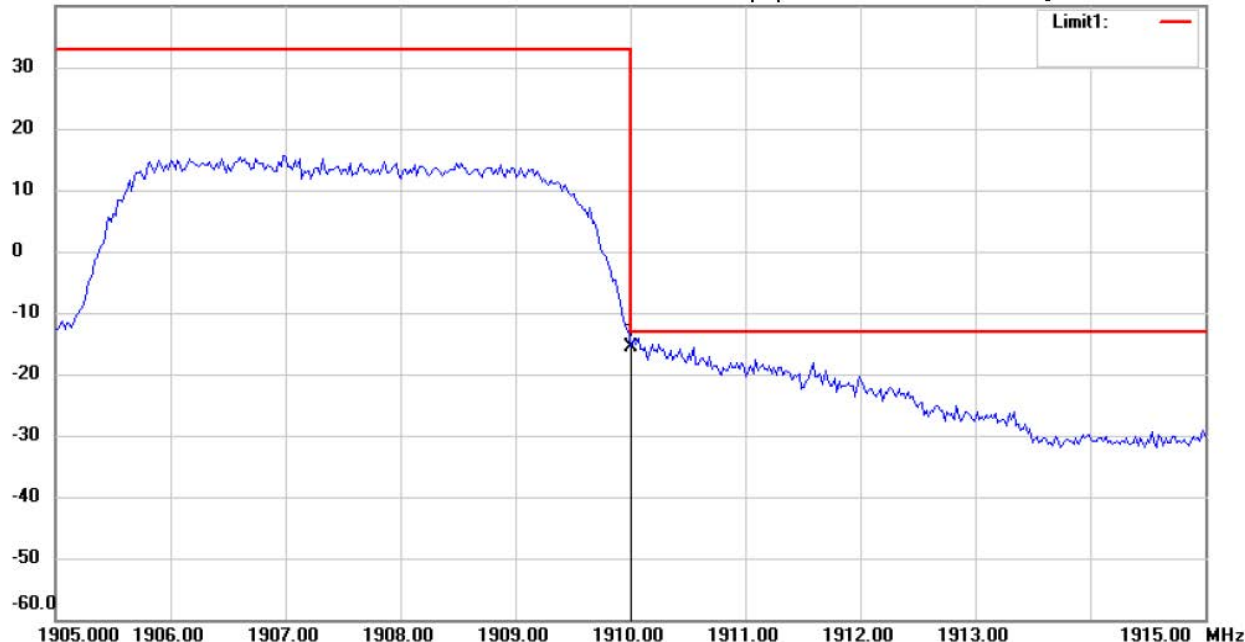
Date: 2017/11/30

Temperature:24 °C

40.0 dBm

Time: 下午 02:10:48

Humidity:60 %



Site : Chamber

Condition : FCC_part 24 Bandedge

EUT : W6M21711-17577

M/N:

Test Mode : WCDMA BAND2 CH9538

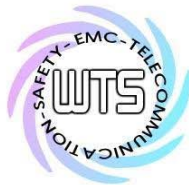
Note :

Polarization: *Horizontal*

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1910.000	-59.95	peak	44.40	-15.55	-13.00	150	180	-2.55	



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

Radiated Emission Measurement

Operator: Kent

File :ch9538

Data :#1

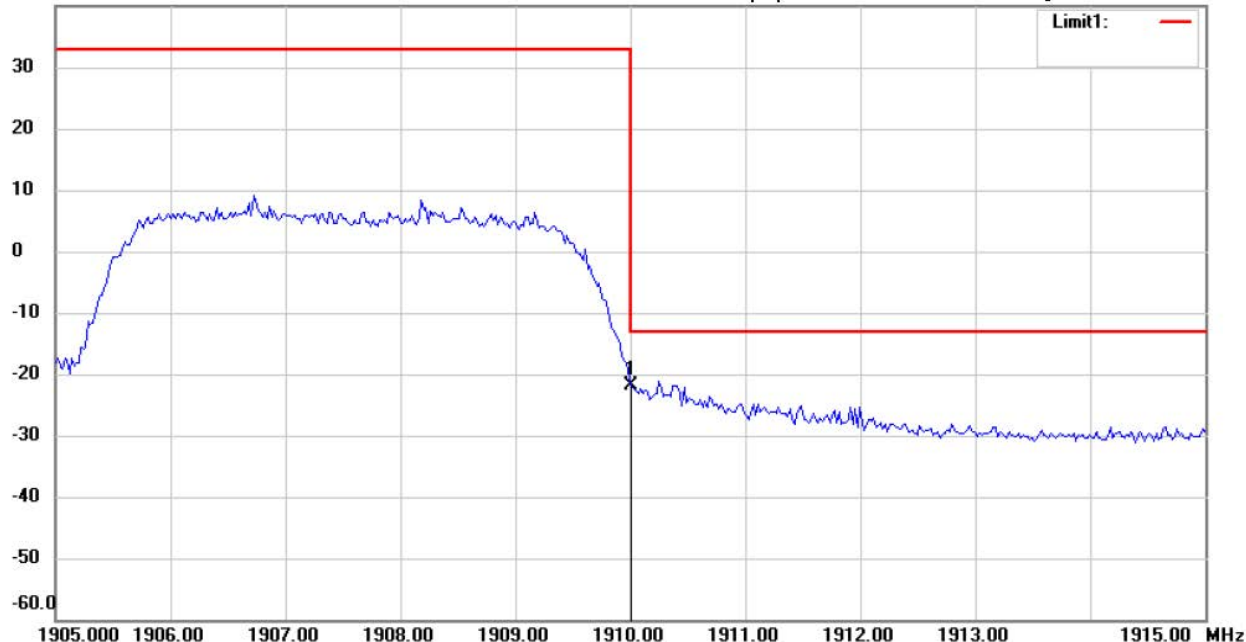
Date: 2017/11/30

Temperature:24 °C

40.0 dBm

Time: 下午 02:05:21

Humidity:60 %



Site : Chamber

Condition : FCC_part 24 Bandedge

EUT : W6M21711-17577

M/N:

Test Mode : WCDMA BAND2 CH9538

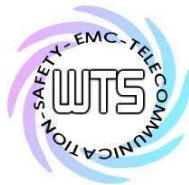
Note :

Polarization: *Vertical*

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	1910.000	-67.65	peak	45.86	-21.79	-13.00	150	40	-8.79	



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

Band 5

Radiated Emission Measurement

Operator: Kent

File :ch4132

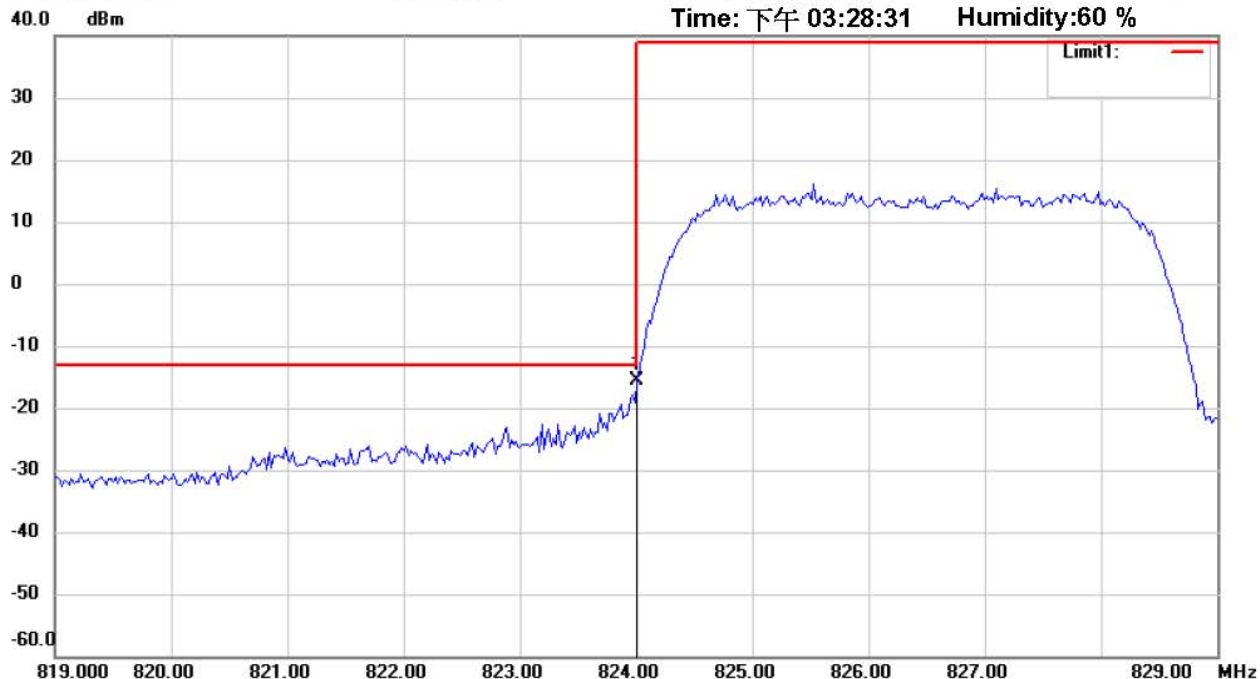
Data :#2

Date: 2017/11/30

Temperature:24 ℃

Time: 下午 03:28:31

Humidity:60 %



Site : Chamber

Condition : FCC_part 22 Bandedge

EUT : W6M21711-17577

M/N:

Test Mode : WCDMA BAND5 CH4132

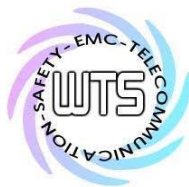
Polarization: *Horizontal*

Power : 120 V.a.c.

Distance: 3m

Note :

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	824.0000	-51.30	peak	35.63	-15.67	-13.00	150	60	-2.67	



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

Radiated Emission Measurement

Operator: Kent

File :ch4132

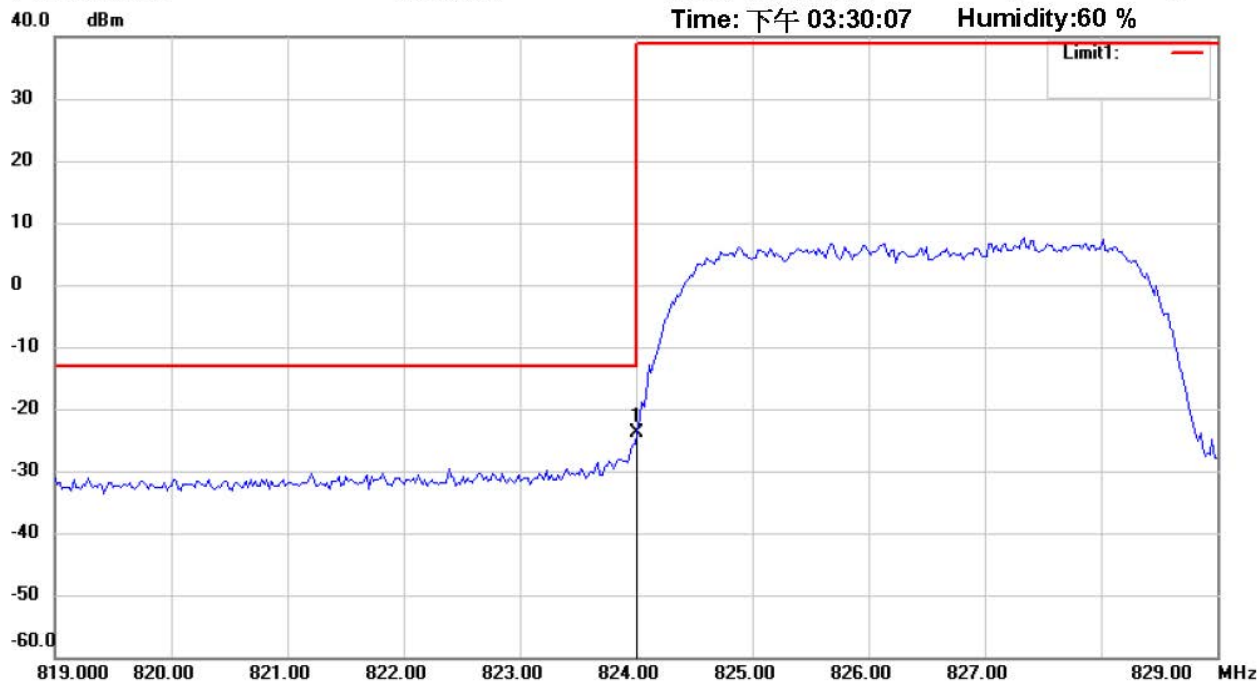
Data :#1

Date: 2017/11/30

Temperature:24 °C

Time: 下午 03:30:07

Humidity:60 %



Site : Chamber

Condition : FCC_part 22 Bandedge

EUT : W6M21711-17577

M/N:

Test Mode : WCDMA BAND5 CH4132

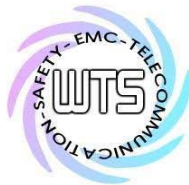
Note :

Polarization: *Vertical*

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	824.0000	-59.47	peak	35.56	-23.91	-13.00	150	300	-10.91	



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

Radiated Emission Measurement

Operator: Kent

File :ch4233

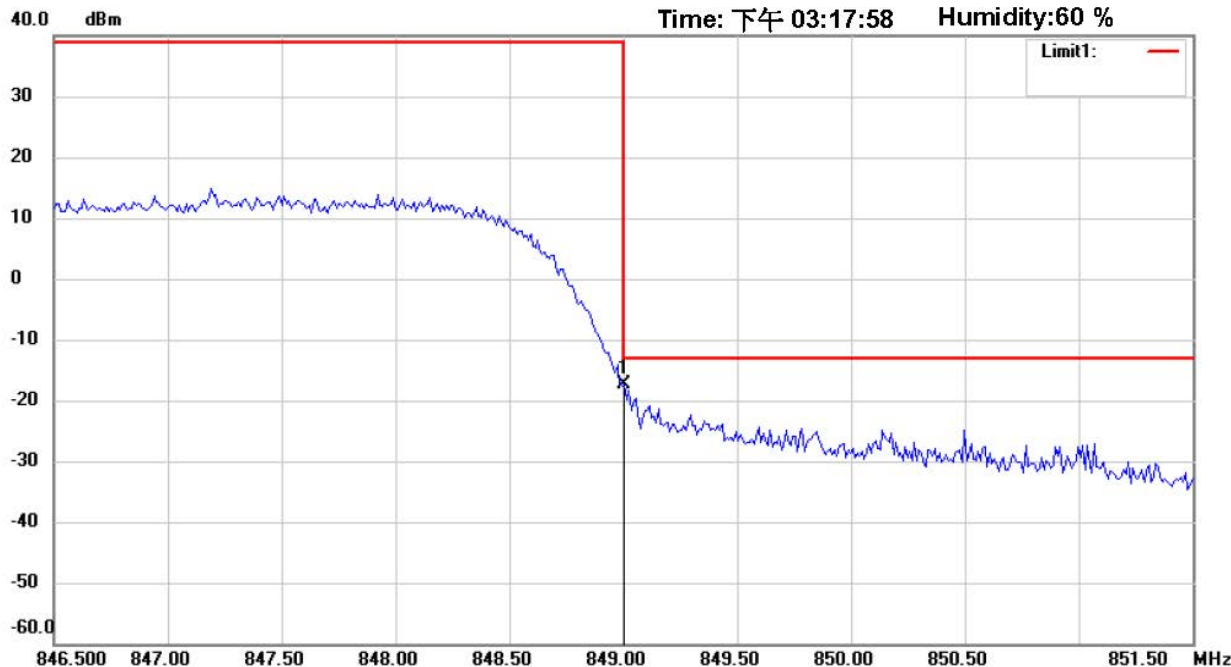
Data :#1

Date: 2017/11/30

Temperature:24 °C

Time: 下午 03:17:58

Humidity:60 %



Site : Chamber

Condition : FCC_part 22 Bandedge

EUT : W6M21711-17577

M/N:

Test Mode : WCDMA BAND5 CH4233

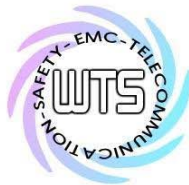
Note :

Polarization: *Horizontal*

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	849.0000	-53.85	peak	36.49	-17.36	-13.00	150	60	-4.36	



Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

Radiated Emission Measurement

Operator: Kent

File :ch4233

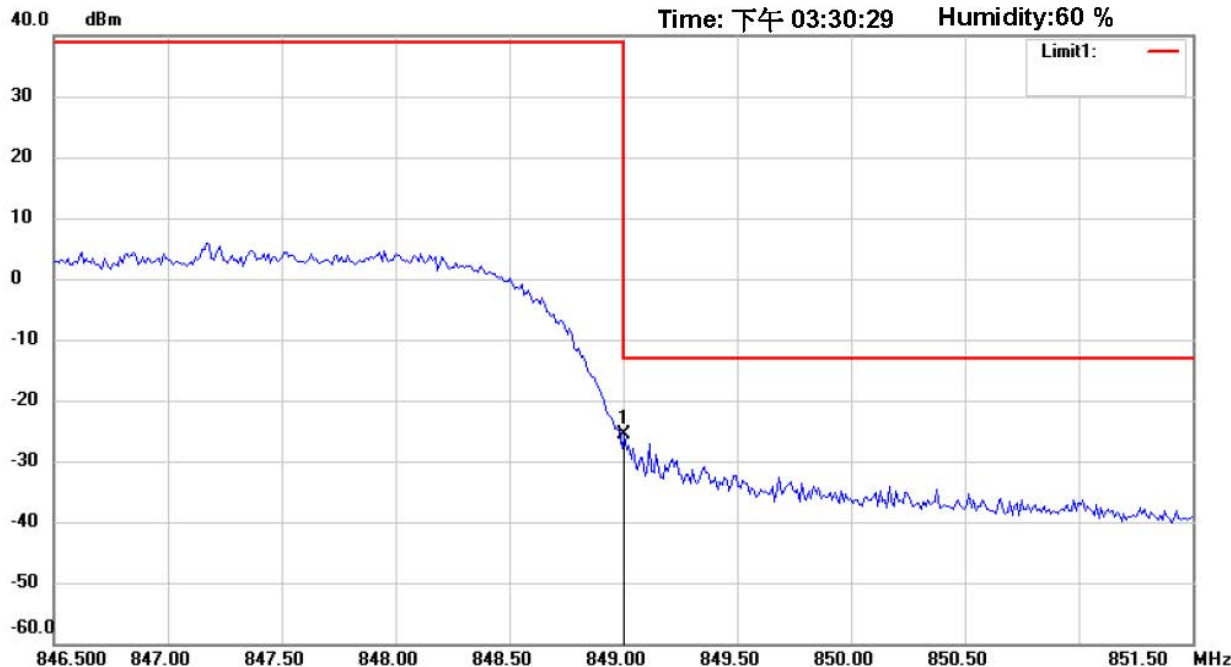
Data :#2

Date: 2017/11/30

Temperature:24 °C

Time: 下午 03:30:29

Humidity:60 %



Site : Chamber

Condition : FCC_part 22 Bandedge

EUT : W6M21711-17577

M/N:

Test Mode : WCDMA BAND5 CH4233

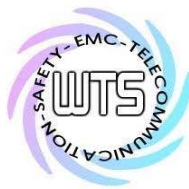
Note :

Polarization: *Vertical*

Power : 120 V.a.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBm)	Detector	Corr. factor (dB)	Result (dBm)	Limit (dBm)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	849.0000	-61.86	peak	36.33	-25.53	-13.00	150	80	-12.53	



Worldwide Testing Services(Taiwan) Co., Ltd.

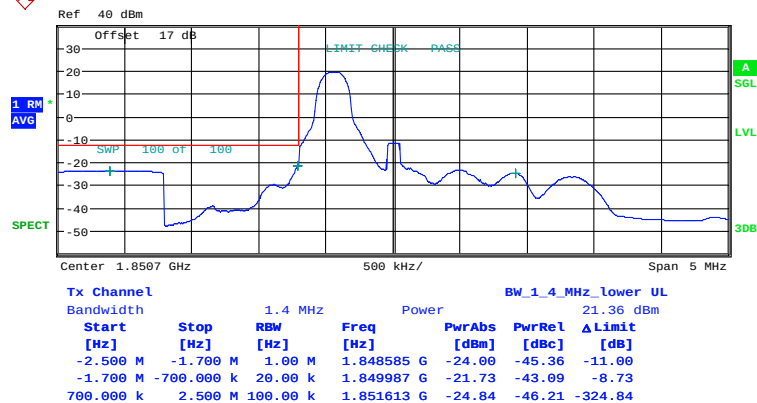
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

LTE

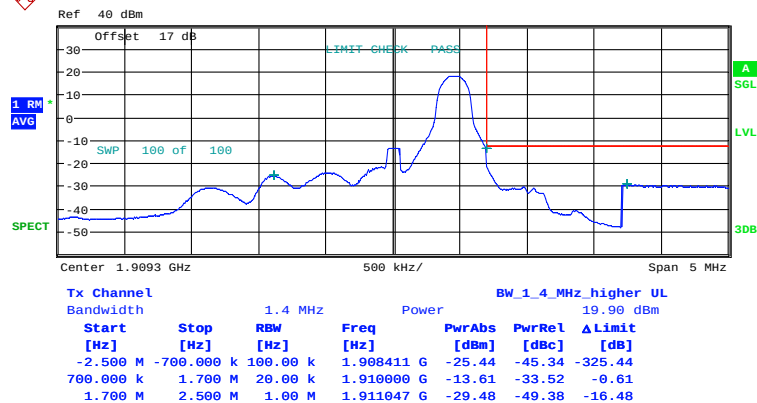
Band 2

1.4 MHz QPSK



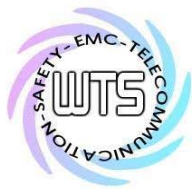
Bandedge Band2 QPSK 1RB 1.4MHz CH18607

Date: 23.NOV.2017 10:09:14



Bandedge Band2 QPSK 1RB 1.4MHz CH19193

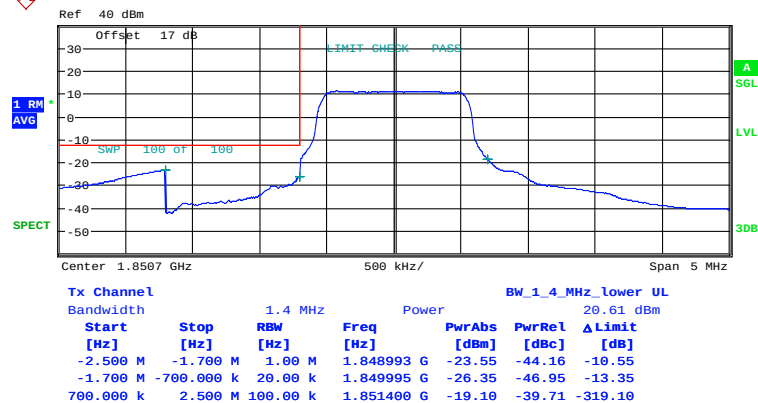
Date: 23.NOV.2017 10:19:03



Worldwide Testing Services(Taiwan) Co., Ltd.

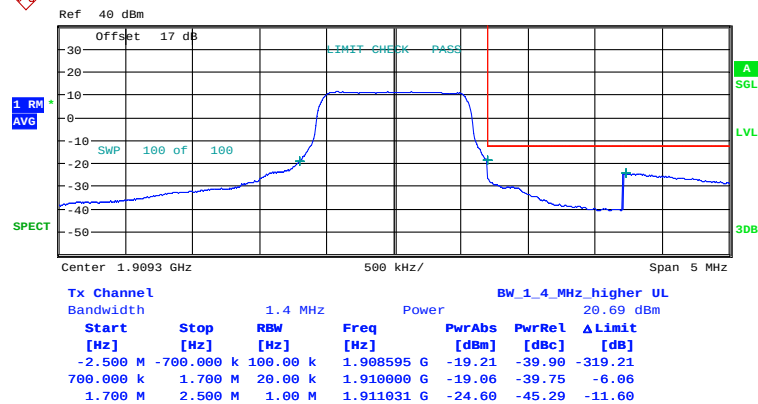
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



Bandedge Band2 QPSK FRB 1.4MHz CH18607

Date: 23.NOV.2017 10:12:21

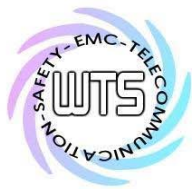


Bandedge Band2 QPSK FRB 1.4MHz CH19193

Date: 23.NOV.2017 10:16:09



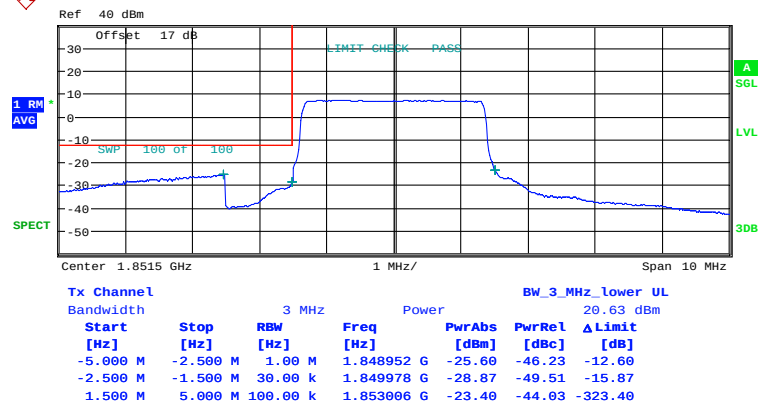
3 MHz QPSK



Worldwide Testing Services(Taiwan) Co., Ltd.

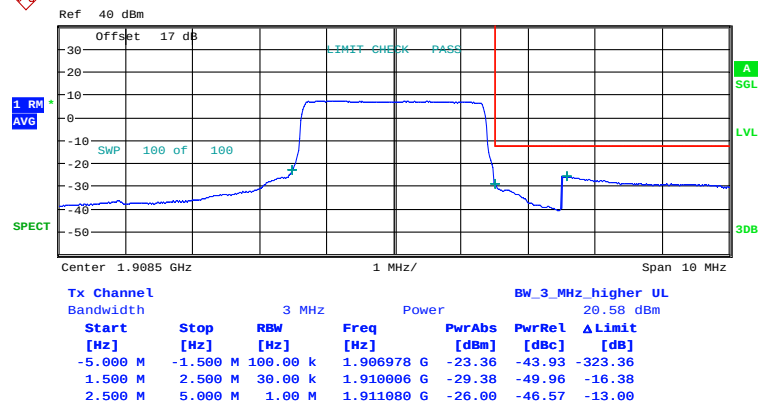
Report Number: W6M21711-17577-P-247

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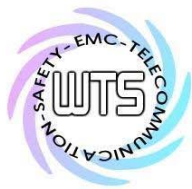
Bandedge Band2 QPSK FRB 3MHz CH18615

Date: 23.NOV.2017 10:40:51



Bandedge Band2 QPSK FRB 3MHz CH19185

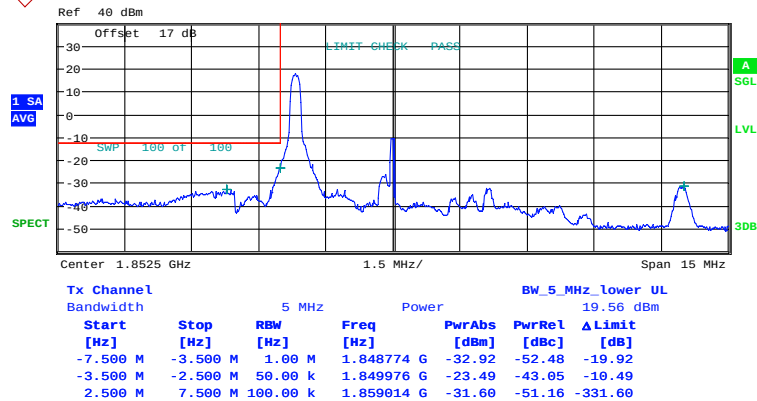
Date: 23.NOV.2017 10:37:57



Report Number: W6M21711-17577-P-247

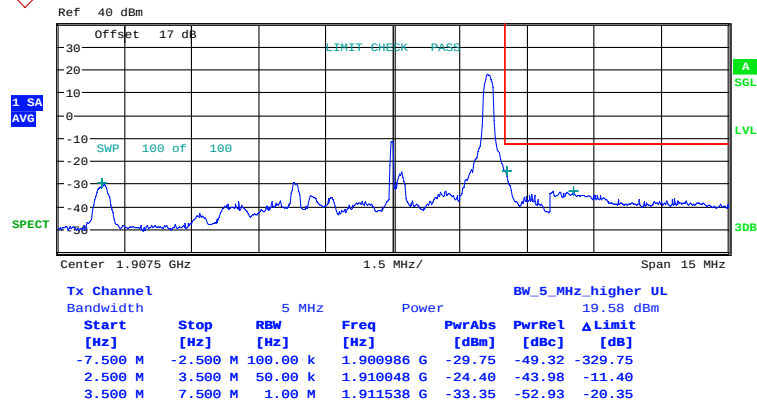
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5 MHz QPSK



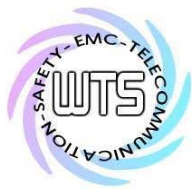
Bandedge Band2 QPSK 1RB 5MHz CH18625

Date: 23.NOV.2017 13:27:39



Bandedge Band2 QPSK 1RB 5MHz CH19175

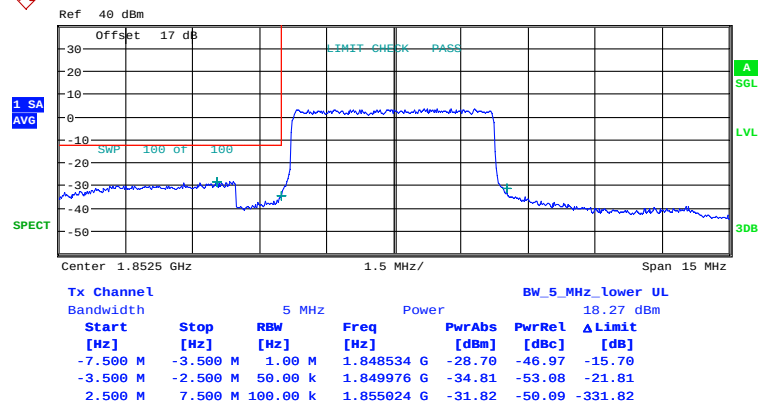
Date: 23.NOV.2017 13:42:32



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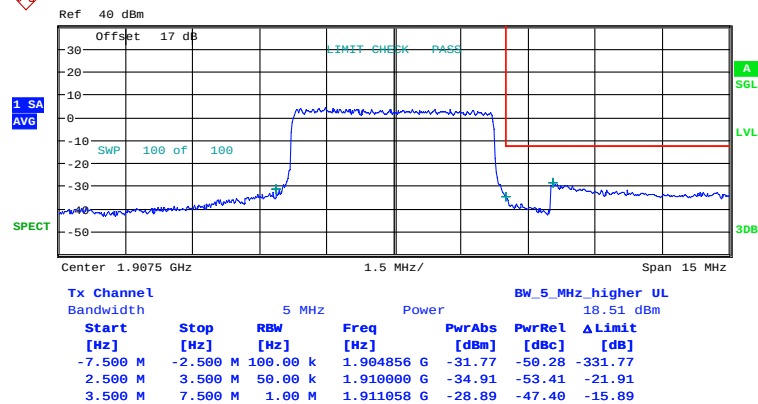
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



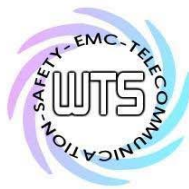
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Date: 23.NOV.2017 13:30:07



Bandedge Band2 QPSK FRB 5MHz CH19175

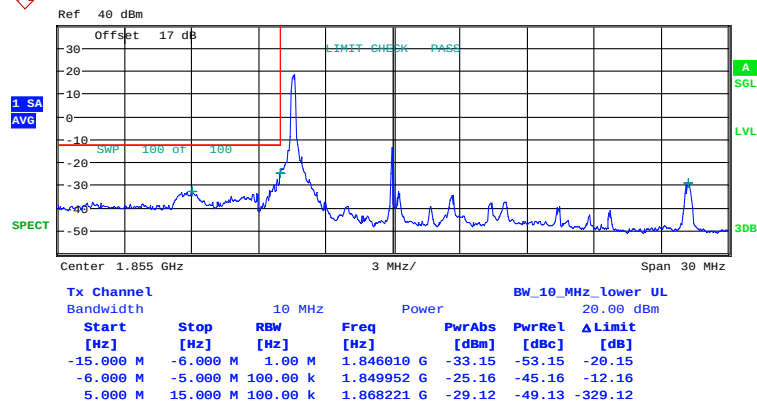
Date: 23.NOV.2017 13:43:44



Report Number: W6M21711-17577-P-247

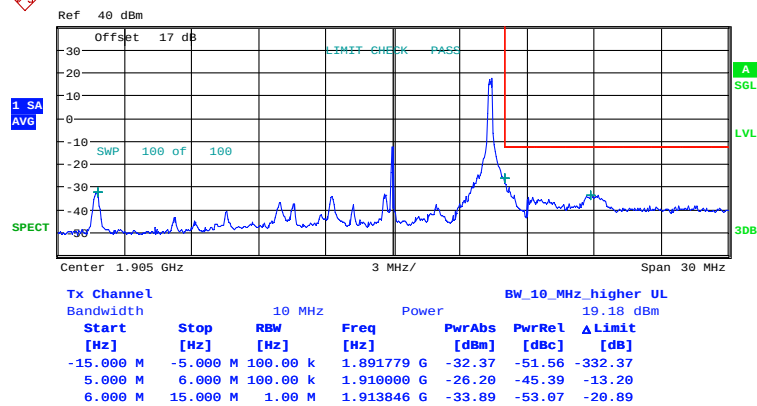
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10 MHz QPSK



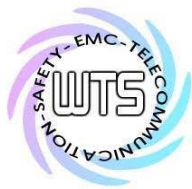
Bandedge Band2 QPSK 1RB 10MHz CH18650

Date: 23.NOV.2017 14:02:44



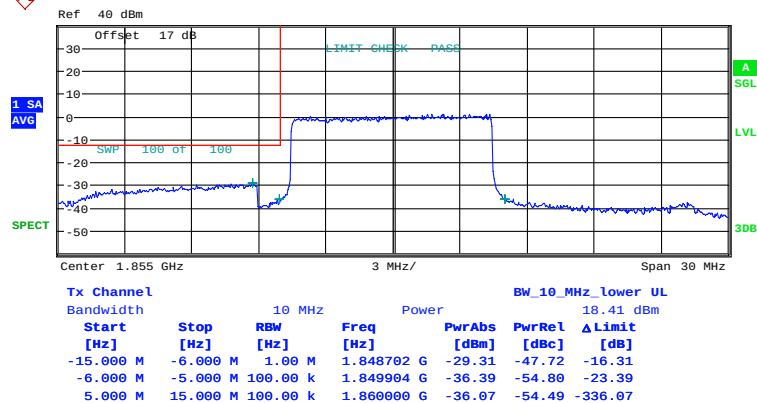
Bandedge Band2 QPSK 1RB 10MHz CH19150

Date: 23.NOV.2017 14:07:21



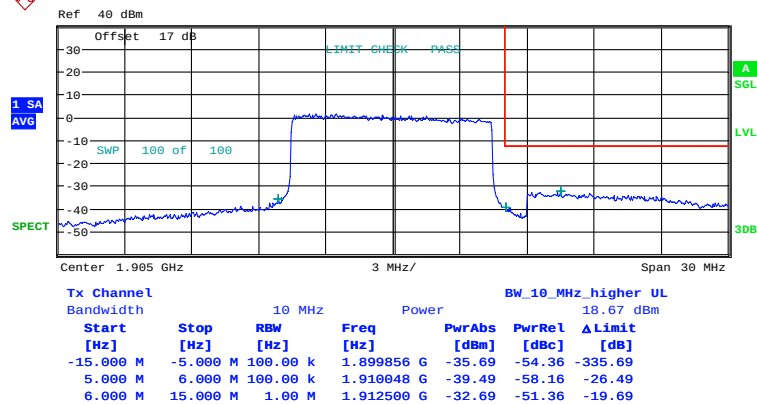
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



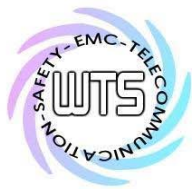
Bandedge Band2 QPSK FRB 10MHz CH18650

Date: 23.NOV.2017 14:01:29



Bandedge Band2 QPSK FRB 10MHz CH19150

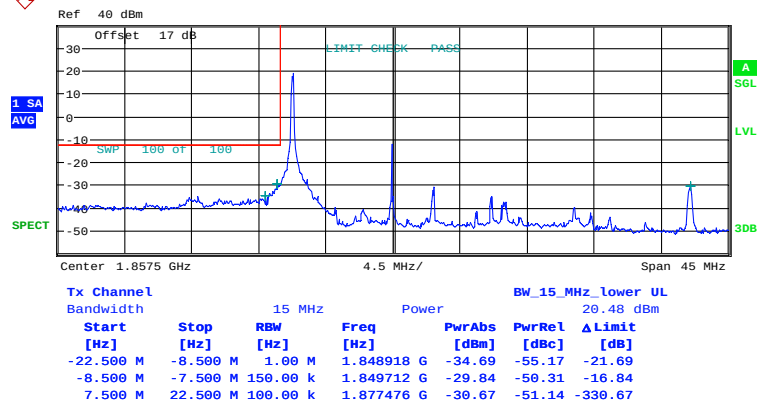
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Report Number: W6M21711-17577-P-247

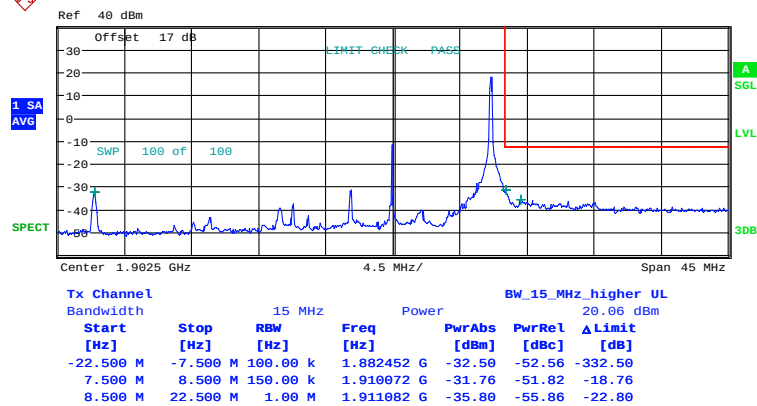
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15 MHz QPSK



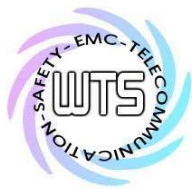
Bandedge Band2 QPSK 1RB 15MHz CH18675

Date: 23.NOV.2017 14:25:58



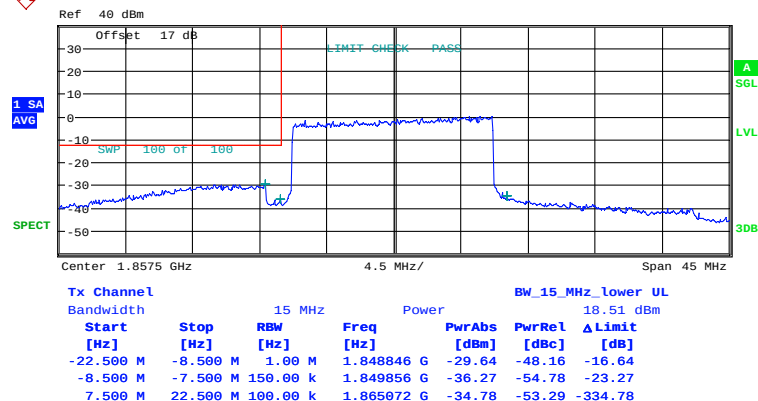
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Date: 23.NOV.2017 14:36:55



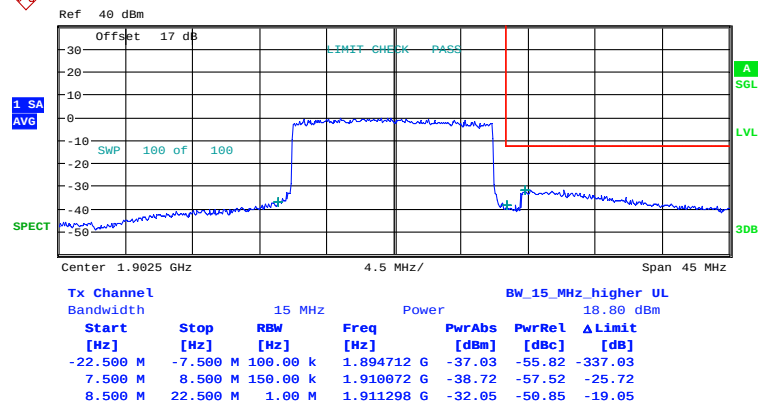
Report Number: W6M21711-17577-P-247

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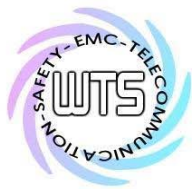
Bandedge Band2 QPSK FRB 15MHz CH18675

Date: 23.NOV.2017 14:27:42



Bandedge Band2 QPSK FRB 15MHz CH19125

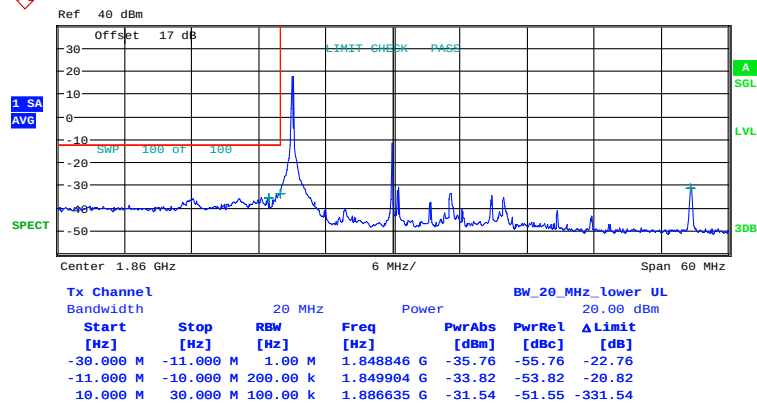
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Report Number: W6M21711-17577-P-247

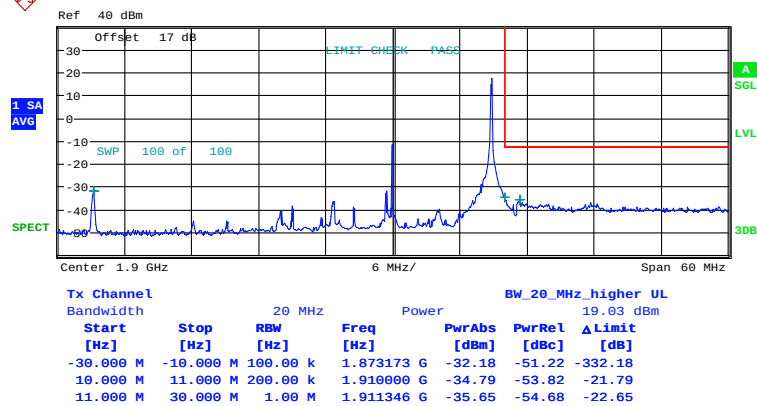
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20 MHz QPSK



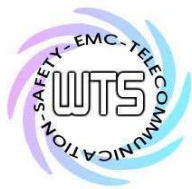
Bandedge Band2 QPSK 1RB 20MHz CH18700

Date: 23.NOV.2017 15:00:42



Bandedge Band2 QPSK 1RB 20MHz CH19100

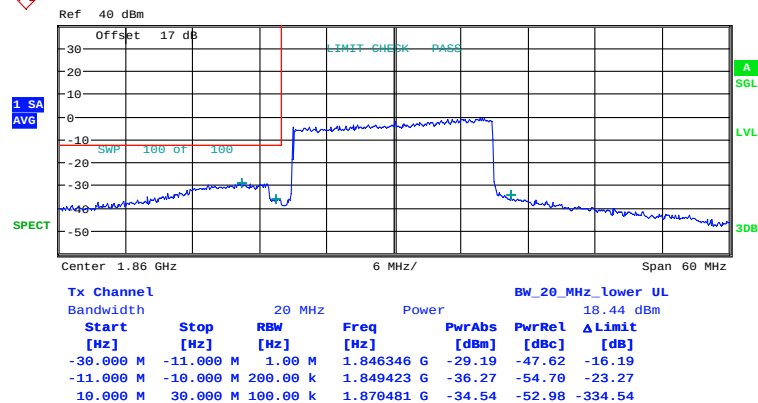
Date: 23.NOV.2017 15:09:03



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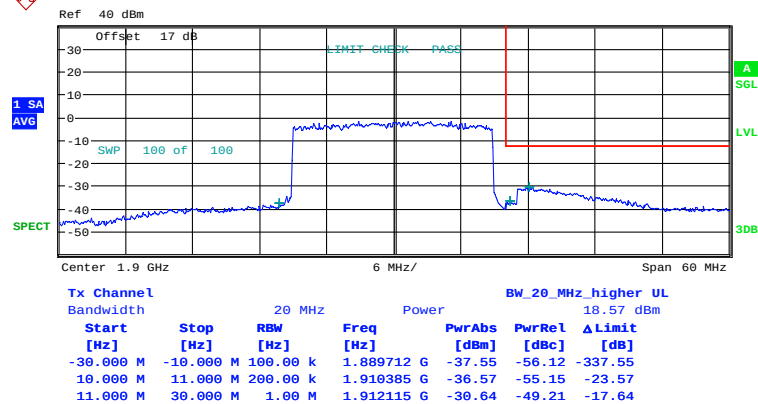
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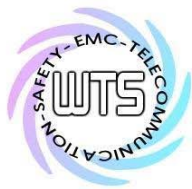
Bandedge Band2 QPSK FRB 20MHz CH18700

Date: 23.NOV.2017 15:02:45



Bandedge Band2 QPSK FRB 20MHz CH19100

Date: 23.NOV.2017 15:06:50

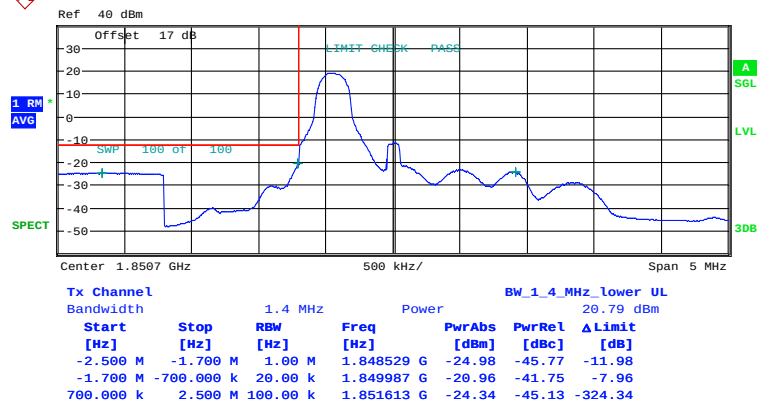


Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

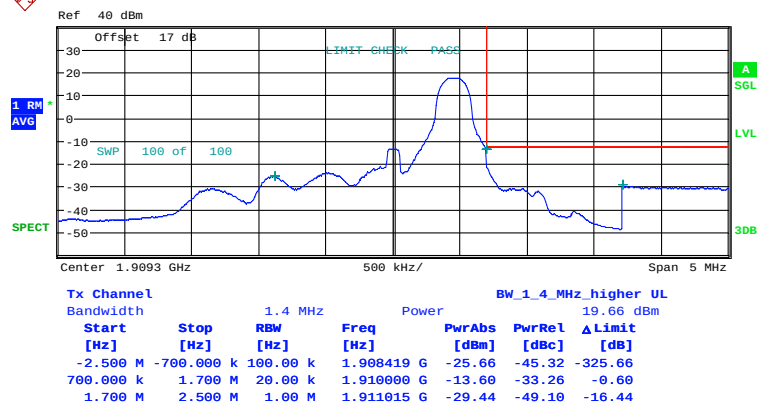
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1.4 MHz 16QAM



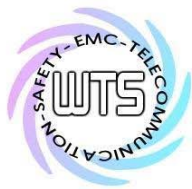
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Date: 23.NOV.2017 10:04:51



Bandedge Band2 16QAM 1RB 1.4MHz CH19193

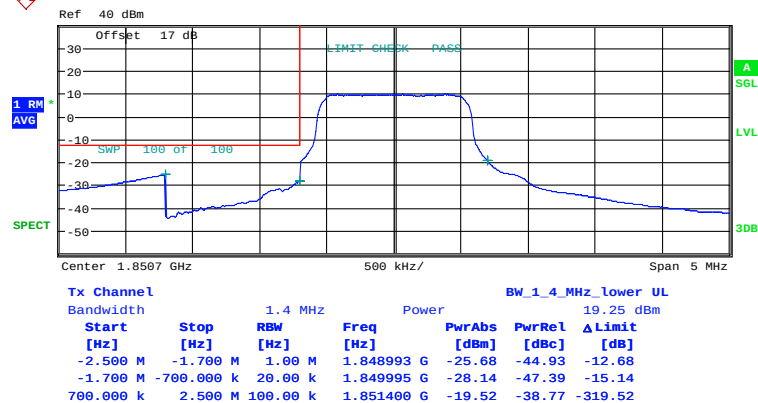
Date: 23.NOV.2017 10:21:47



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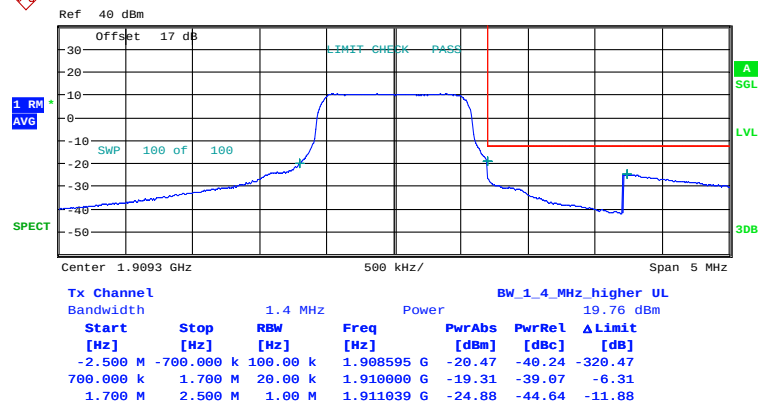
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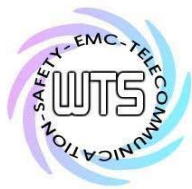
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Date: 23.NOV.2017 10:00:02



Bandedge Band2 16QAM FRB 1.4MHz CH19193

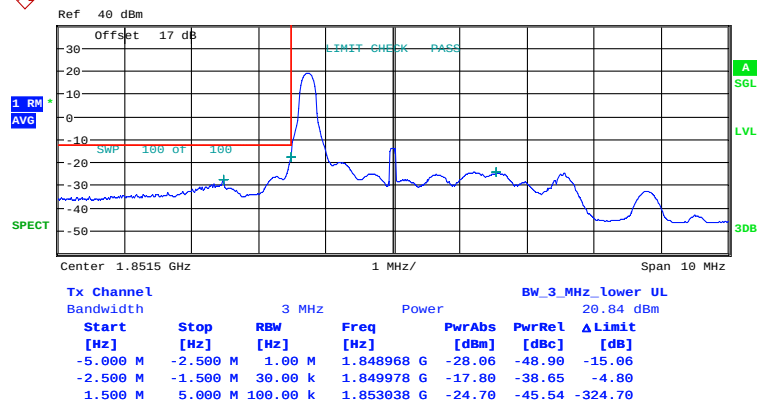
Date: 23.NOV.2017 10:23:35



Report Number: W6M21711-17577-P-247

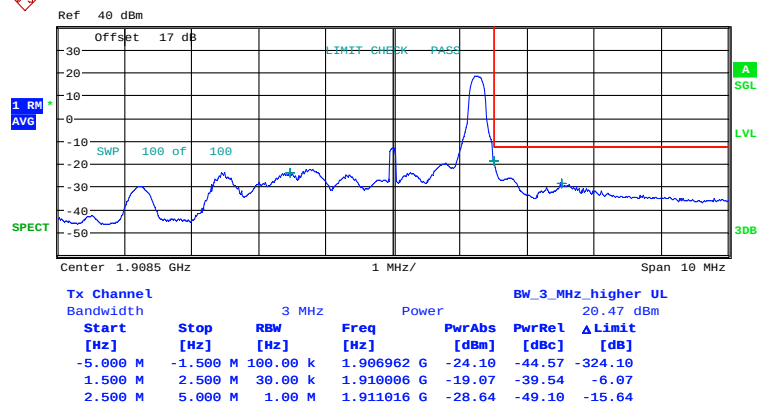
FCC ID: GX9CTC1052LTE

3 MHz 16QAM



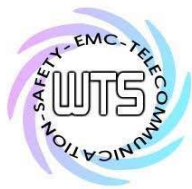
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Date: 23.NOV.2017 10:43:21



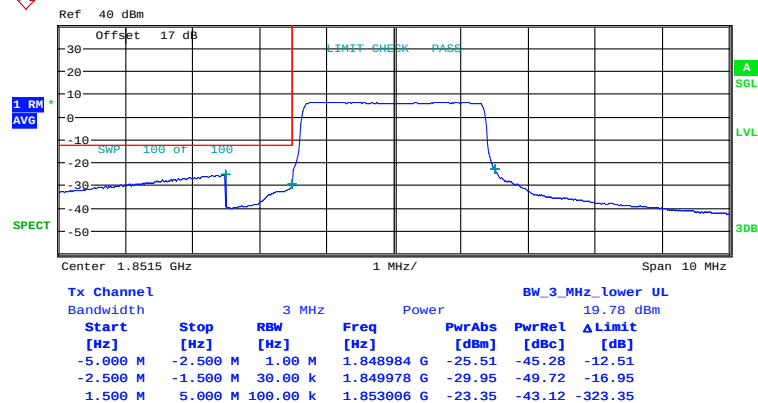
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Date: 23.NOV.2017 10:31:22



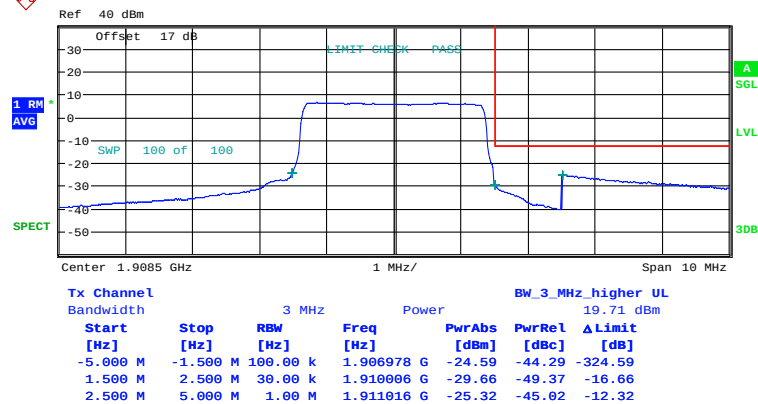
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



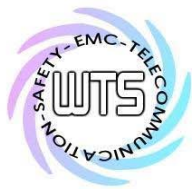
Bandedge Band2 16QAM FRB 3MHz CH18615

Date: 23.NOV.2017 10:45:32



Bandedge Band2 16QAM FRB 3MHz CH19185

Date: 23.NOV.2017 10:29:02

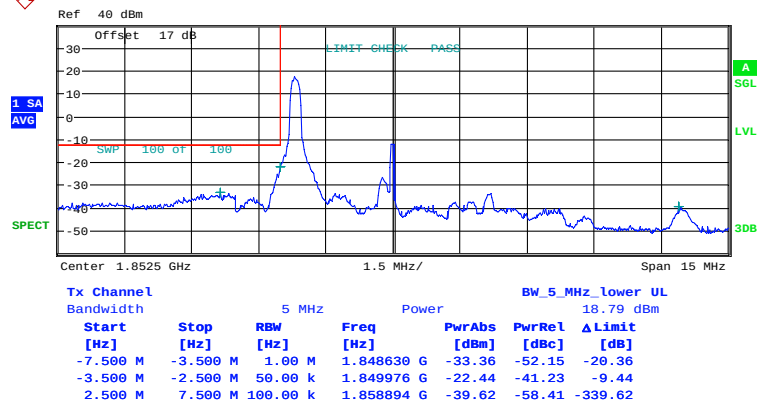


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Report Number: W6M21711-17577-P-247

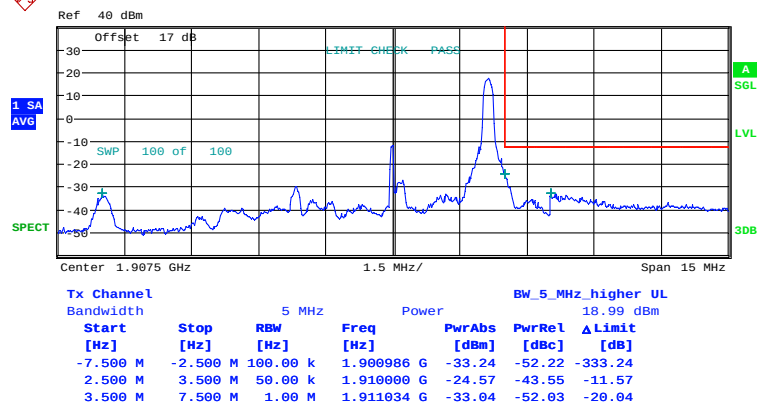
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5 MHz 16QAM



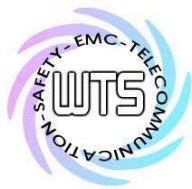
Bandedge Band2 16QAM 1RB 5MHz CH18625

Date: 23.NOV.2017 13:21:45



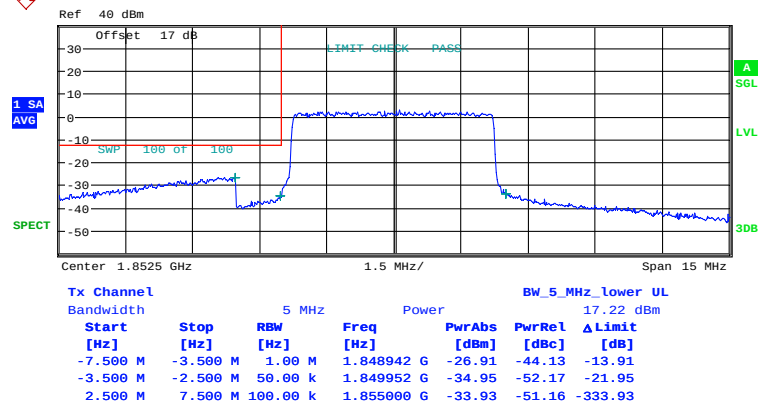
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Date: 23.NOV.2017 13:47:17



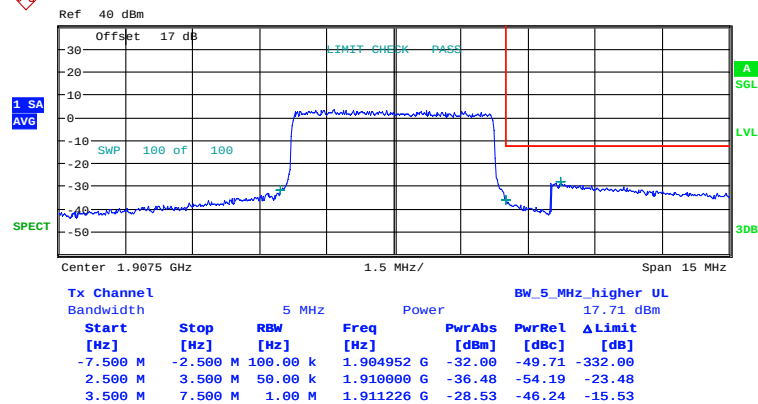
Report Number: W6M21711-17577-P-247

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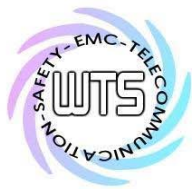
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Date: 23.NOV.2017 13:20:46



Bandedge Band2 16QAM FRB 5MHz CH19175

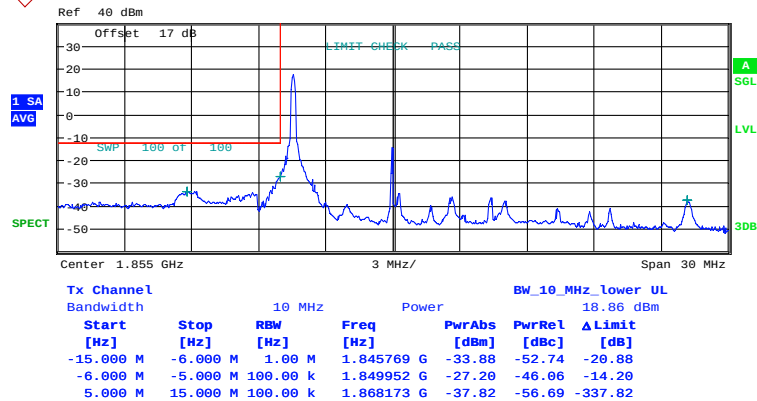
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Report Number: W6M21711-17577-P-247

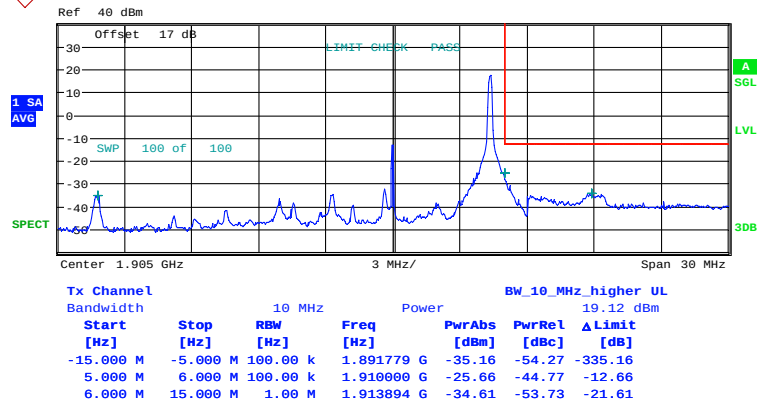
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10 MHz 16QAM



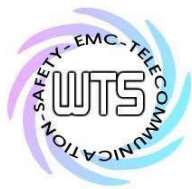
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Date: 23.NOV.2017 13:57:38



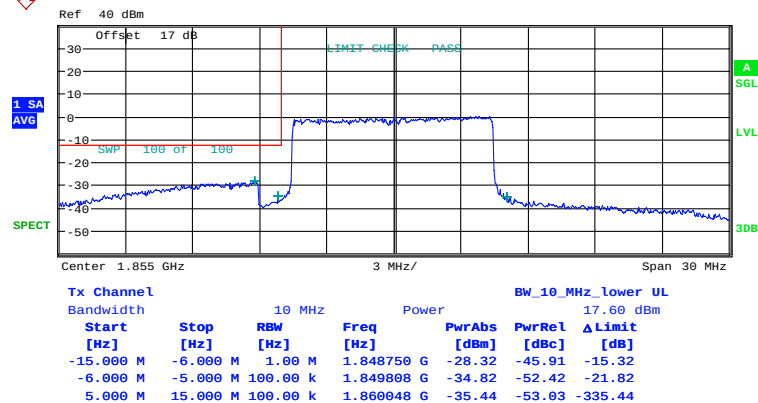
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Date: 23.NOV.2017 14:12:55



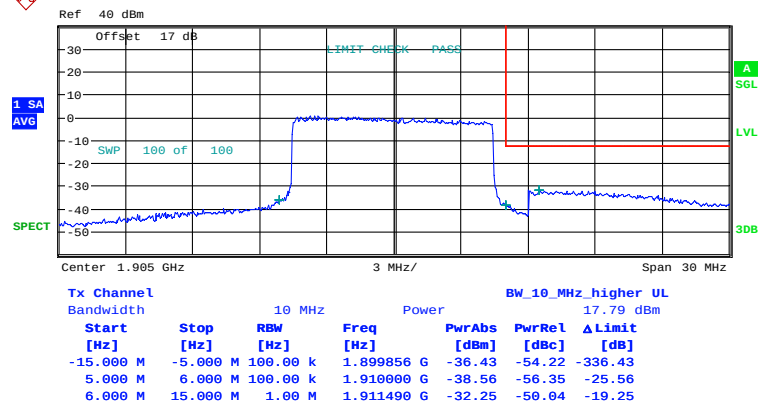
Report Number: W6M21711-17577-P-247

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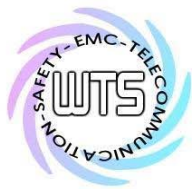
Bandedge Band2 16QAM FRB 10MHz CH18650

Date: 23.NOV.2017 13:59:52



Bandedge Band2 16QAM FRB 10MHz CH19150

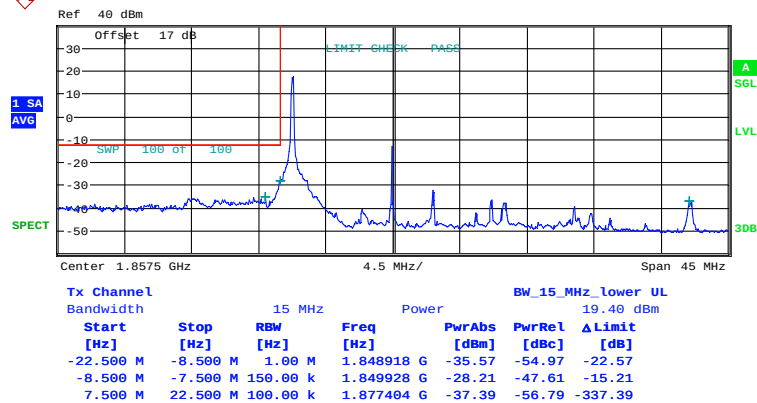
Date: 23.NOV.2017 14:10:41



Report Number: W6M21711-17577-P-247

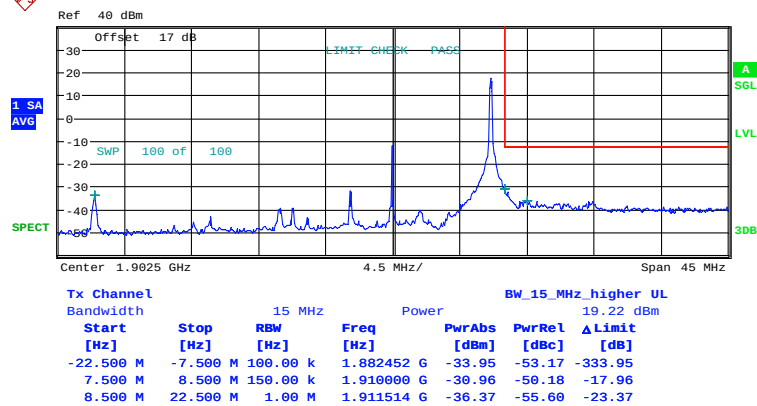
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15 MHz 16QAM



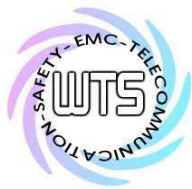
Bandedge Band2 16QAM 1RB 15MHz CH18675

Date: 23.NOV.2017 14:22:48



Bandedge Band2 16QAM 1RB 15MHz CH19125

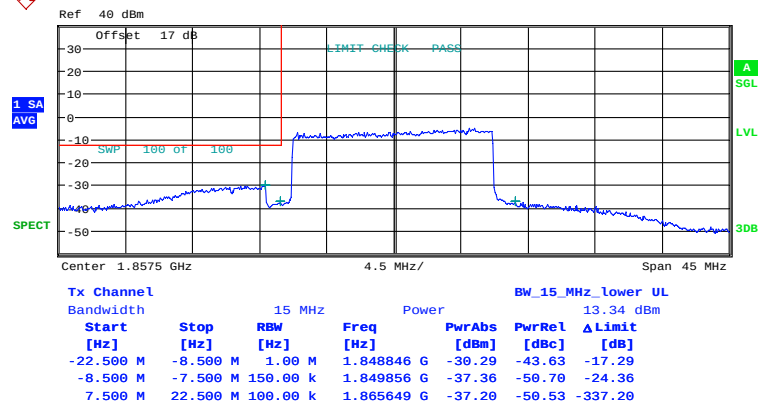
Date: 23.NOV.2017 14:38:44



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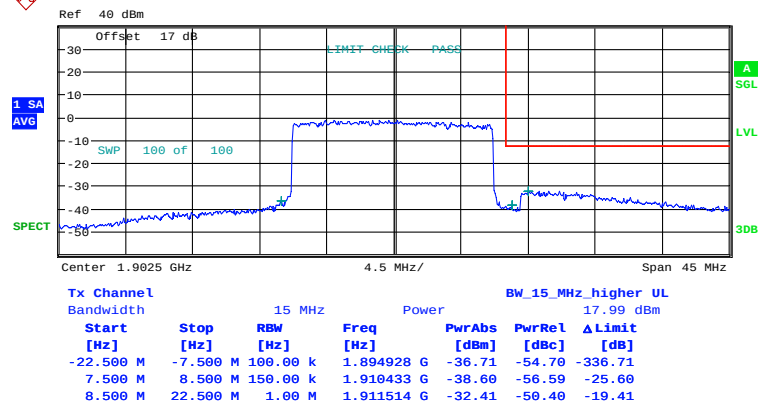
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



Bandedge Band2 16QAM FRB 15MHz CH18675

Date: 23.NOV.2017 14:21:08

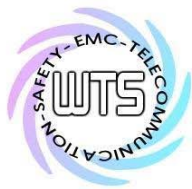


Bandedge Band2 16QAM FRB 15MHz CH19125

Date: 23.NOV.2017 14:40:25



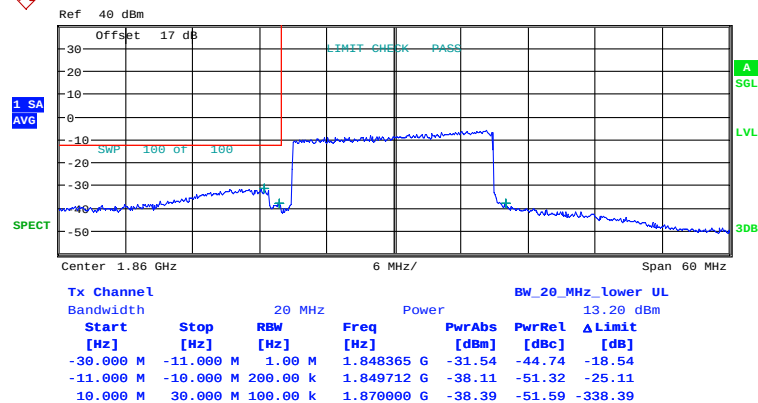
20 MHz 16QAM



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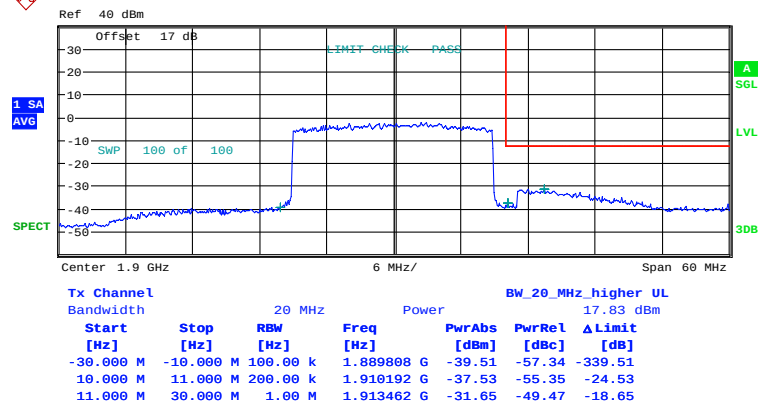
Report Number: W6M21711-17577-P-247

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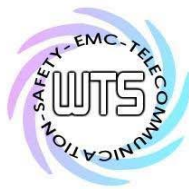
Bandedge Band2 16QAM FRB 20MHz CH18700

Date: 23.NOV.2017 14:56:37



Bandedge Band2 16QAM FRB 20MHz CH19100

Date: 23.NOV.2017 15:15:21



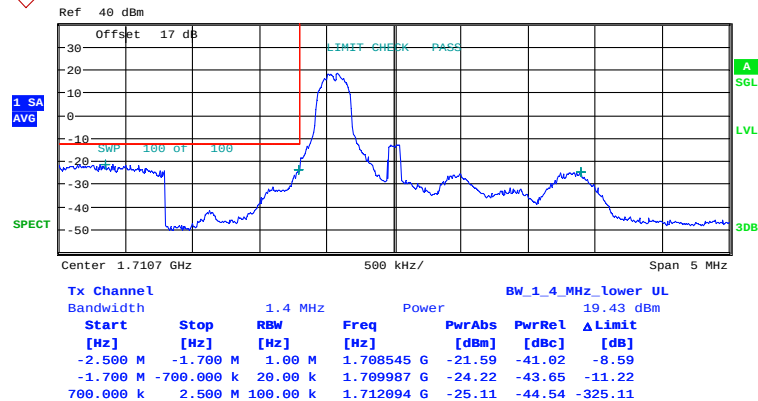
Worldwide Testing Services(Taiwan) Co., Ltd.

Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE

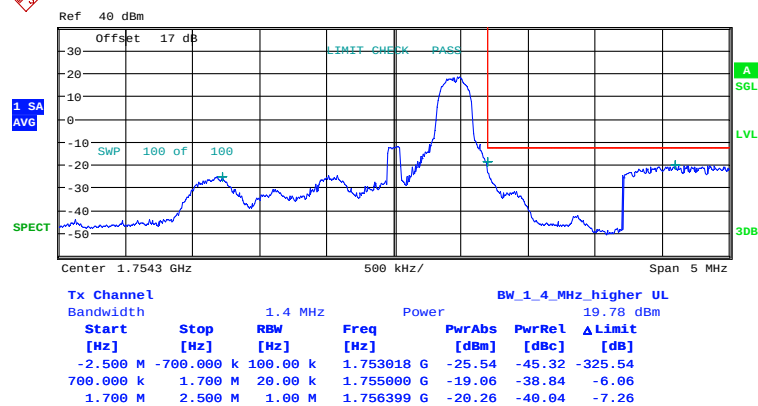
Band 4

1.4 MHz QPSK



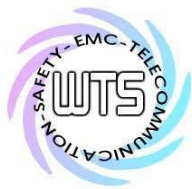
Bandedge Band4 QPSK 1RB 1.4MHz CH19957

Date: 23.NOV.2017 17:50:27



Bandedge Band4 QPSK 1RB 1.4MHz CH20393

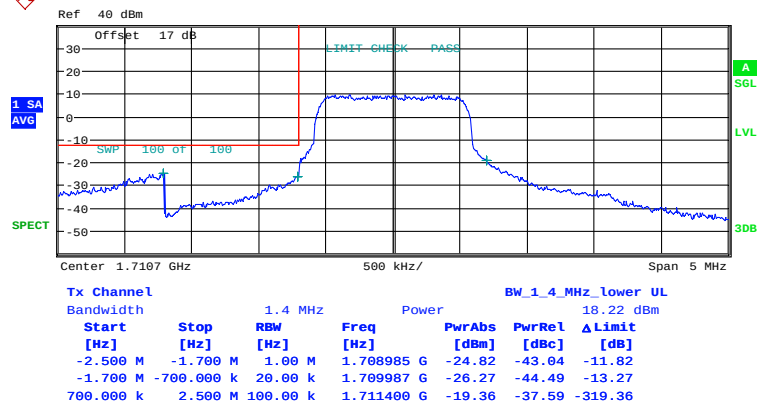
Date: 23.NOV.2017 17:58:12



Worldwide Testing Services(Taiwan) Co., Ltd.

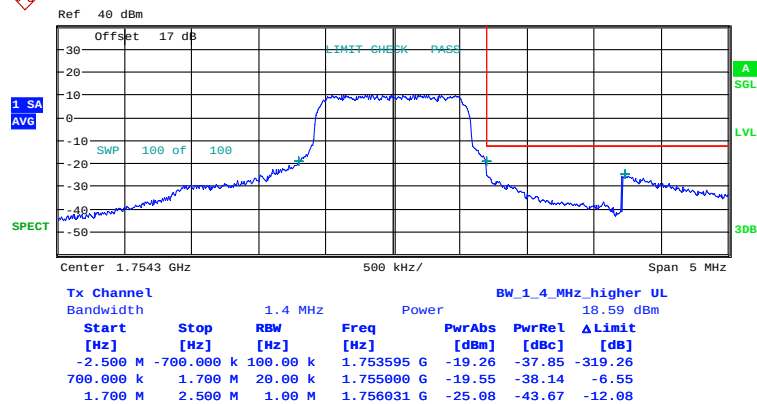
Report Number: W6M21711-17577-P-247

FCC ID: GX9CTC1052LTE



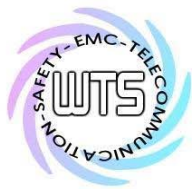
Bandedge Band4 QPSK FRB 1.4MHz CH19957

Date: 23.NOV.2017 17:53:29



Bandedge Band4 QPSK FRB 1.4MHz CH20393

Date: 23.NOV.2017 17:56:03

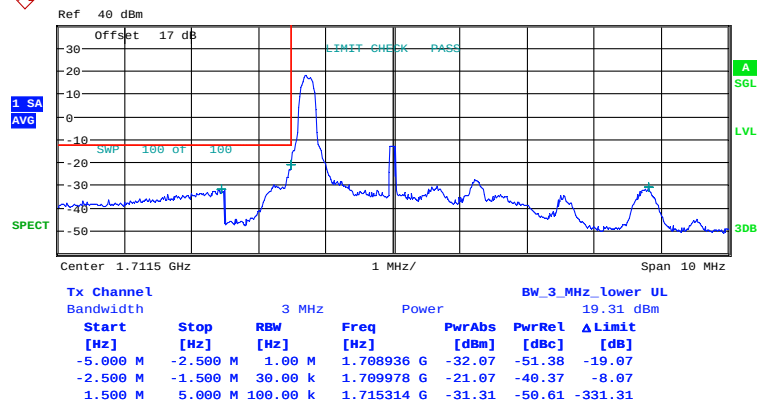


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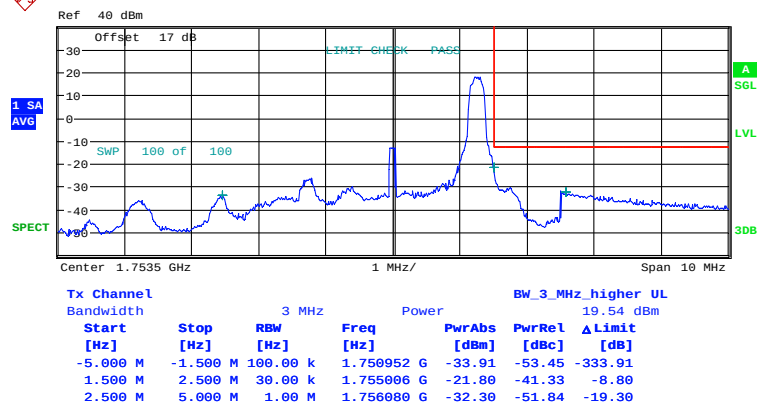
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3 MHz QPSK



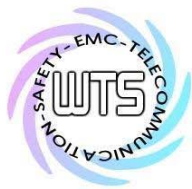
Bandedge Band4 QPSK 1RB 3MHz CH19965

Date: 23.NOV.2017 17:18:21



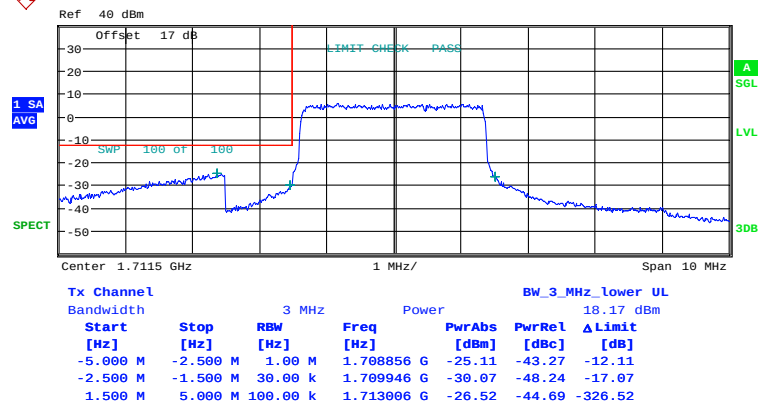
Bandedge Band4 QPSK 1RB 3MHz CH20385

Date: 23.NOV.2017 17:24:11



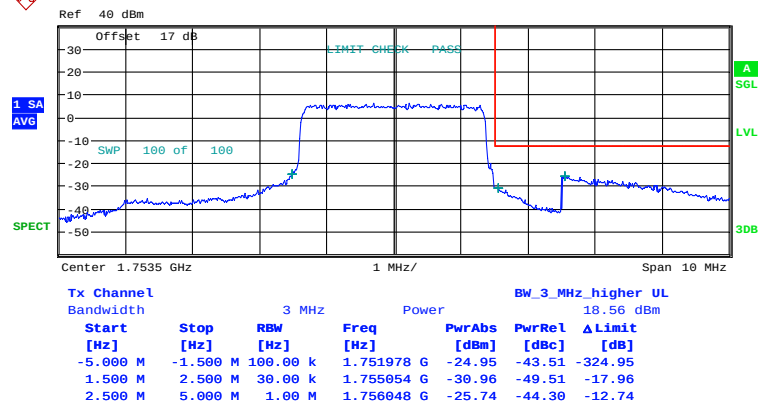
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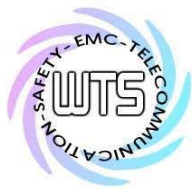
Bandedge Band4 QPSK FRB 3MHz CH19965

Date: 23.NOV.2017 17:19:57



Bandedge Band4 QPSK FRB 3MHz CH20385

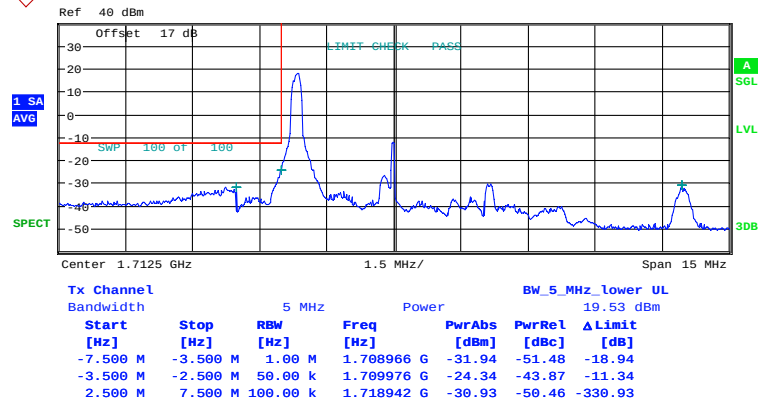
Date: 23.NOV.2017 17:22:30



Report Number: W6M21711-17577-P-247

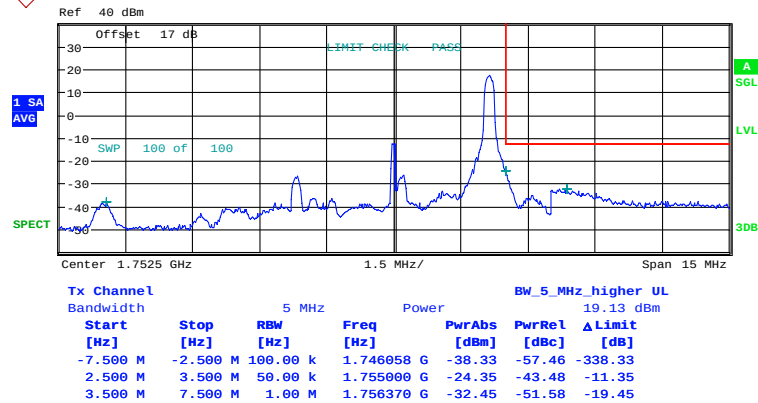
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5 MHz QPSK



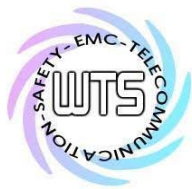
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Date: 23.NOV.2017 16:57:15



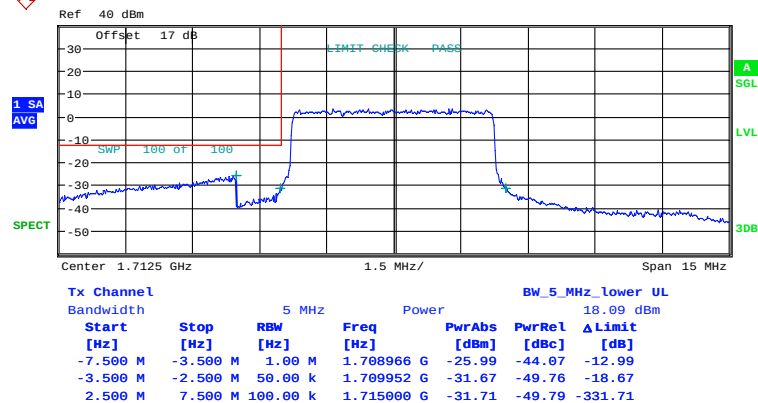
Bandedge Band4 QPSK 1RB 5MHz CH20375

Date: 23.NOV.2017 17:00:57



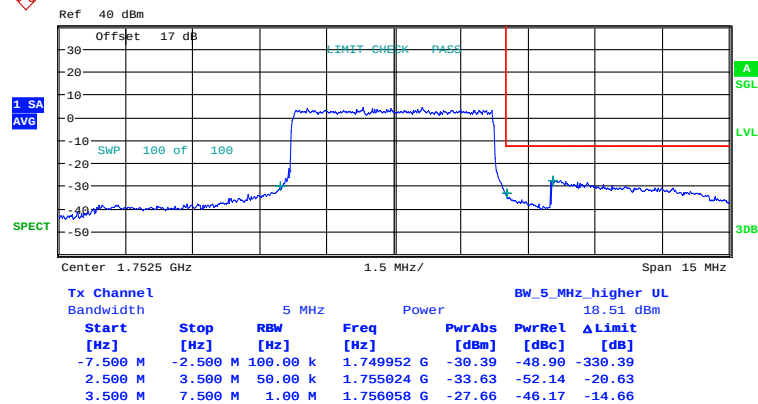
Report Number: W6M21711-17577-P-247

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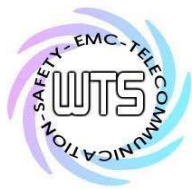
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Date: 23.NOV.2017 16:58:24



Bandedge Band4 QPSK FRB 5MHz CH20375

Date: 23.NOV.2017 16:59:52

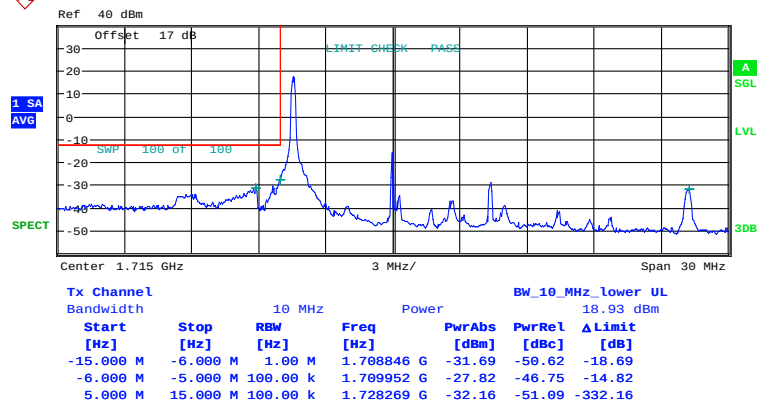


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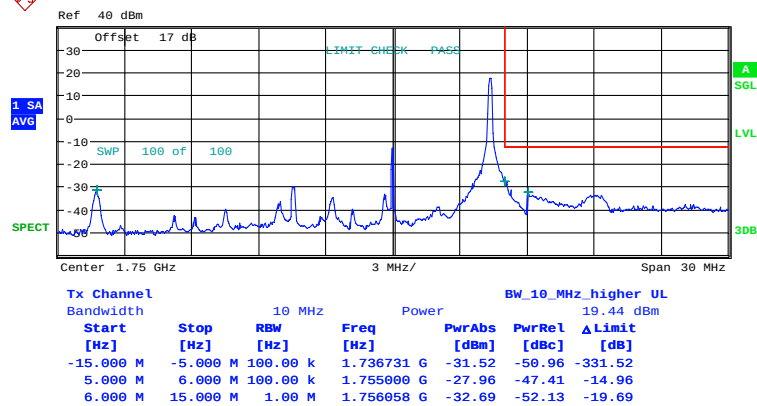
FCC ID: GX9CTC1052LTE

10 MHz QPSK



Bandedge Band4 QPSK 1RB 10MHz CH20000

Date: 23.NOV.2017 16:39:42



Bandedge Band4 QPSK 1RB 10MHz CH20350

Date: 23.NOV.2017 16:23:14