FCC Radio Test Report

FCC ID: QISBLA-L29

This report concerns (check one): ☒**Original Grant** ☐**Class I Change** ☐**Class II Change**

Project No.	: 1709C042
Equipment	: Smart Phone
Model Name	: BLA-L29
Applicant	: Huawei Technologies Co.,Ltd.
Address	: Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

Date of Receipt	: Sep. 07, 2017
Date of Test	: Sep. 07, 2017 ~ Oct. 09, 2017
Issued Date	: Oct. 09, 2017
Tested by	: BTL Inc.

Technical Engineer : _____
(Kenji Lin)

Authorized Signatory : _____
(Andy Chiu)

BTL INC.

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

TEL:+886-2-2657-3299 FAX: +886-2- 2657-3331

Testing Laboratory 0659

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

BTL's report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and **BTL-self**, extracts from the test report shall not be reproduced except in full with **BTL**'s authorized written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Table of Contents Page

REPORT ISSUED HISTORY 5

1 . CERTIFICATION 6

2 . SUMMARY OF TEST RESULTS 7

2.1 TEST FACILITY 8

2.2 MEASUREMENT UNCERTAINTY 8

3 . GENERAL INFORMATION 9

3.1 GENERAL DESCRIPTION OF EUT 9

3.2 DESCRIPTION OF TEST MODES AND TEST CONDITION 11

3.3 BLOCK DIGRAM SHOWING THECONFIGURATIONOFSYSTEMTESTED FOR RADIATED 12

3.4 DESCRIPTION OF SUPPORT UNITS 12

4 . TEST RESULT 13

4.1 OUTPUT POWER MEASUREMENT 13

4.1.1 LIMIT 13

4.1.2 TEST PROCEDURE 13

4.1.3 TESTSETUP LAYOUT 13

4.1.4 TEST DEVIATION 13

4.1.5 TEST RESULTS 13

4.2 OCCUPIED BANDWIDTH MEASUREMENT 14

4.2.1 TEST PROCEDURE 14

4.2.2 TEST SETUP LAYOUT 14

4.2.3 TEST DEVIATION 14

4.2.4 TEST RESULTS 14

4.3 CONDUCTED EMISSIONS MEASUREMENT 15

4.3.1 LIMIT 15

4.3.2 TEST PROCEDURES 15

4.3.3 TESTSETUP LAYOUT 15

4.3.4 TESTDEVIATION 15

4.3.5 TEST RESULTS 15

4.4 RADIATED EMISSIONS MEASUREMENT 16

4.4.1 LIMIT 16

4.4.2 TEST PROCEDURES 16

4.4.3 TESTSETUP LAYOUT 17

4.4.4 TESTDEVIATION 17

4.4.5 TEST RESULTS 17

4.5 BAND EDGE /EMISSION MASK MEASUREMENT 18

4.5.1 LIMIT 18

Table of Contents Page

4.5.2 TEST PROCEDURES 18
4.5.3 TESTSETUP LAYOUT 18
4.5.4 TESTDEVIATION 18
4.5.5 TEST RESULTS 18
4.6 FREQUENCY STABILITY MEASUREMENT 19
4.6.1 LIMIT 19
4.6.2 TEST PROCEDURES 19
4.6.3 TESTSETUP LAYOUT 19
4.6.4 TESTDEVIATION 19
4.6.5 TEST RESULTS 19
5. LIST OF MEASUREMENT EQUIPMENTS 20
APPENDIX A - OUTPUT POWER 21
APPENDIX B - OCCUPIED BANDWIDTH 26
APPENDIX C - CONDUCTED EMISSIONS 34
APPENDIX D - RADIATED EMISSION 39
APPENDIX E - EMISSION MASK 72
APPENDIX F - FREQUENCY STABILITY 77

REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-3-1709C042	Original Issue.	Oct. 09, 2017

1. CERTIFICATION

Equipment	:	Smart Phone
Brand Name	:	HUAWEI
Model Name	:	BLA-L29
Applicant	:	Huawei Technologies Co.,Ltd.
Manufacturer	:	Huawei Technologies Co.,Ltd.
Address	:	Administration Building, Huawei Base, Bantian, Longgang District , Shenzhen 518129, P.R.China
Factory	:	Huawei Technologies Co.,Ltd.
Address	:	Administration Building, Huawei Base, Bantian, Longgang District , Shenzhen 518129, P.R.China
Date of Test	:	Sep. 07, 2017 ~ Oct. 09, 2017
Test Sample	:	Engineering Sample
Standard(s)	:	47 CFR FCC Part 90 Subpart S 47 CFR FCC Part 2 & ANSI/TIA-603-D-2010 FCC KDB 971168 D01 Power Meas License Digital Systems v02r02

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-3-1709C042) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the LTE Band 26 part.

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part 90 Subpart S & Part 2			
Standard(s) Section	Test Item	Judgment	Tested By
2.1046 & 90.635 (b)	Radiated power	PASS	Paul Li
2.1046 & 90.635 (b)	Conducted Output Power	PASS	Paul Li
2.1049 & 90.209	Occupied Bandwidth	PASS	Paul Li
2.1051 & 90.691	Conducted Spurious Emissions	PASS	Paul Li
2.1053 & 90.691	Radiated Spurious Emissions	PASS	Paul Li
2.1055 & 90.213	Frequency Stability	PASS	Paul Li
2.1051 & 90.209	Emission Mask	PASS	Paul Li

Note:

(1)" N/A" denotes test is not applicable to this device.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Radiated emissions Test (Below 1 GHz):
CB15: (FCC RN:674415; FCC DN:TW0659)
No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emissions Test (Above 1 GHz):
CB15: (FCC RN:674415; FCC DN:TW0659)
No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Conducted Test:
TR01: (FCC RN:674415; FCC DN:TW0659)
No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

The reported uncertainty of measurement **y** ± **U**, where expanded uncertainty **U** is based on astandard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95**%.

A. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U,(dB)
CB15 (3m)	CISPR	9kHz ~ 150kHz	2.82
		150kHz ~ 30MHz	2.58

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
CB15 (3m)	CISPR	30MHz ~ 200MHz	V	4.20
		30MHz ~ 200MHz	H	3.64
		200MHz ~ 1,000MHz	V	4.56
		200MHz ~ 1,000MHz	H	3.90

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
CB15 (3m)	CISPR	1GHz ~ 6GHz	V	4.46
		1GHz ~ 6GHz	H	4.40
		6GHz ~ 18GHz	V	3.88
		6GHz ~ 18GHz	H	4.00

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Phone			
Brand Name	HUAWEI			
Model Name	BLA-L29			
Model Difference	N/A			
Modulation Type	QPSK, 16QAM			
Operation Frequency	Bandwidth: 1.4MHz	814.7 ~ 823.3 MHz		
	Bandwidth: 3MHz	815.5 ~ 822.5 MHz		
	Bandwidth: 5MHz	816.5 ~ 821.5 MHz		
	Bandwidth: 10MHz	819 MHz		
Max. ERP Power	Bandwidth: 1.4MHz	QPSK	19.19	dBm
		16QAM	18.50	dBm
	Bandwidth: 3MHz	QPSK	19.12	dBm
		16QAM	18.40	dBm
	Bandwidth: 5MHz	QPSK	19.10	dBm
		16QAM	18.57	dBm
	Bandwidth: 10MHz	QPSK	18.97	dBm
		16QAM	18.34	dBm
Antenna Type	Fixed Internal Antenna			
Antenna Gain	-2.07 dBi(Main Ant), -3.02 dBi(Second Ant)			
Hardware Version	HL1BLAM			
Softwarre Version	BLA-L29 8.0.0.69(C432)			
IMEI No. 1	Radiated	866219030013998		
	Conducted	866219030005663		
IMEI No. 2	Radiated	866219030024995		
	Conducted	866219030016660		
Power Source	#1 Supplied from AC/DC adapter. #2 Battery Supplied.			
Power Rating	#1 Input: 100V-240V~50/60Hz, 0.75A Output: 5V⎓2A OR 4.5V⎓5A OR 5V⎓4.5A #2 ⎓3.82V 3900mA			

Note:
1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. The EUT contains following accessory devices.

Item	Mfr/Brand	Model.
Battery	Sunwoda Electronic Co., LTD	HB436486ECW
	SCUD (FUJIAN) Electronics Co., Ltd	HB436486ECW
	Desay Battery Co., Ltd.	HB436486ECW
USB Cable	LUXSHARE-ICT Co., Ltd.	L99UC018-CS-H
	Chang Shu Honglin Technology Co.,Ltd.	130-27309
		130-27363
Earphone	JIANGXI LIANCHUANG HONGSHENG ELECTRONIC CO., LTD	MEMD1632B729000
		MEND1632B729001
	BOLUO COUNTY QUANCHENG ELECTRONIC CO., LTD	1311-3301-6001-TC-296
		1311-3301-6001-TC-305
	Goer Tek Inc	WINDY-C
	MERRY ELECTRONICS (SHENZHEN) CO., LTD.	L99EP003-CS-H
Adapter	DONGGUAN PHITEK ELECTRONICS CO.,LTD.	HW-050450E00 (EU) HW-050450U00 (US) HW-050450B00 (UK)
	SHENZHEN HUNTKEY ELECTRONIC CO.,LTD.	
	Salcomp (Shenzhen)Co.,Ltd	
	HUAWEI Technologies Co., Ltd.	
	DONGGUAN PHITEK ELECTRONICS CO.,LTD.	HW-050450A00 (AU)
	SHENZHEN HUNTKEY ELECTRONIC CO.,LTD.	
	Salcomp (Shenzhen)Co.,Ltd	

3.2 DESCRIPTION OF TEST MODES AND TEST CONDITION

Following channel(s) was (were) selected for the final test as listed below:

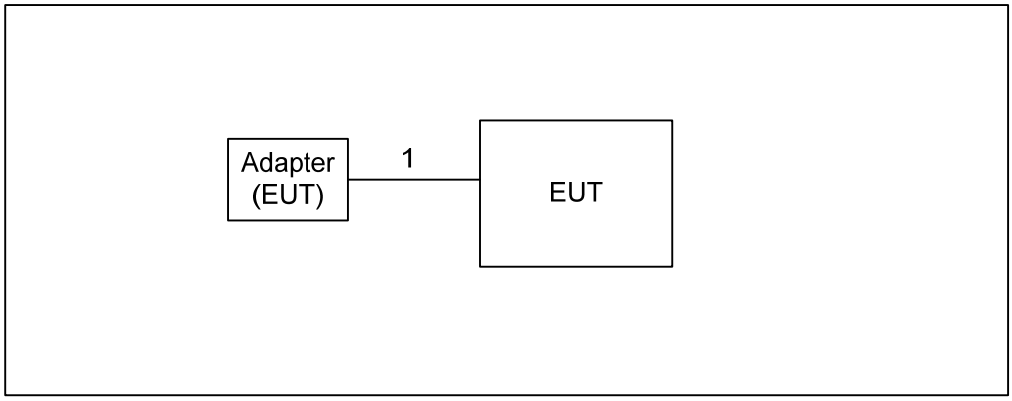
LTE Band 26												
Test Item	Channel Bandwidth(MHz)				Modulation		Tested Channel			RB		
	1.4	3	5	10	QPSK	16QAM	Low	Middle	High	1	50%	100%
ERP	V	V	V	V	V	V	V	V	V	V	V	V
Occupied Bandwidth	V	V	V	V	V	V	V	V	V	-	-	V
Conducted Emission	V	V	V	V	V	-	-	V	-	V	-	-
Emission Mask	V	V	V	V	V	-	V	-	V	V	-	V
Radiated Emission	V	-	-	V	V	-	-	V	-	V	-	-
Frequency Stability	V	V	V	V	V	-	-	V	-	-	-	V

Note:
1) The mark “V” means that this configuration is chosen for testing.
2) The mark “-” means that this configuration is not testing.

EUT TEST CONDITIONS:

Test Item	Environmental Conditions	Test Voltage
ERP	24°C, 63%RH	DC 3.82V
Conducted Output Power	25°C, 65%RH	DC 3.82V
Occupied Bandwidth	25°C, 65%RH	DC 3.82V
Conducted Emission	25°C, 65%RH	DC 3.82V
Radiated Emission	25°C, 60%RH	AC 120V/60Hz
Emission Mask	25°C, 65%RH	DC 3.82V
Frequency Stability	25°C, 65%RH	DC 3.82V

3.3 BLOCK DIGRAM SHOWING THECONFIGURATIONOFSYSTEMTESTED FOR RADIATED



3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	USB cable

4. TEST RESULT

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMIT

Mobile / Portable station are limited to 100 watts e.r.p.

4.1.2 TEST PROCEDURE

EIRP/ERP:

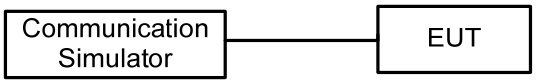
EIRP= Conducted Power +Antenan gain
ERP power=EIPR power-2.15dBi.

Conducted Power:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA, CDMA, and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 TESTSETUP LAYOUT

Conducted Power Measurement



4.1.4 TEST DEVIATION

No deviation

4.1.5 TEST RESULTS

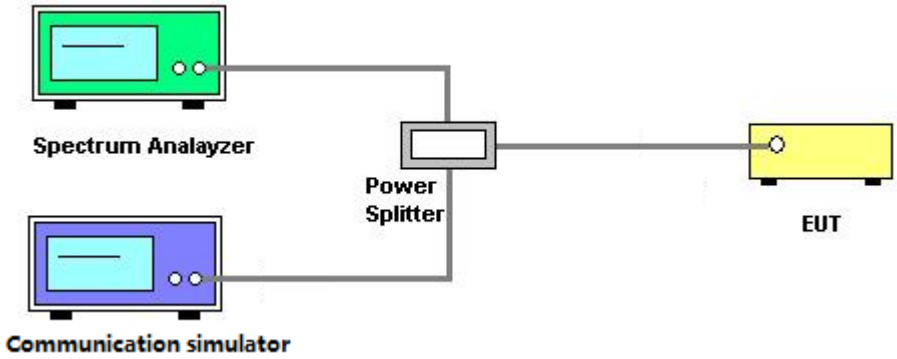
Please refer to the Appendix A.

4.2 OCCUPIED BANDWIDTH MEASUREMENT

4.2.1 TEST PROCEDURE

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth and 26dB bandwidth.

4.2.2 TEST SETUP LAYOUT



4.2.3 TEST DEVIATION

No deviation

4.2.4 TEST RESULTS

Please refer to the Appendix B.

4.3 CONDUCTED EMISSIONS MEASUREMENT

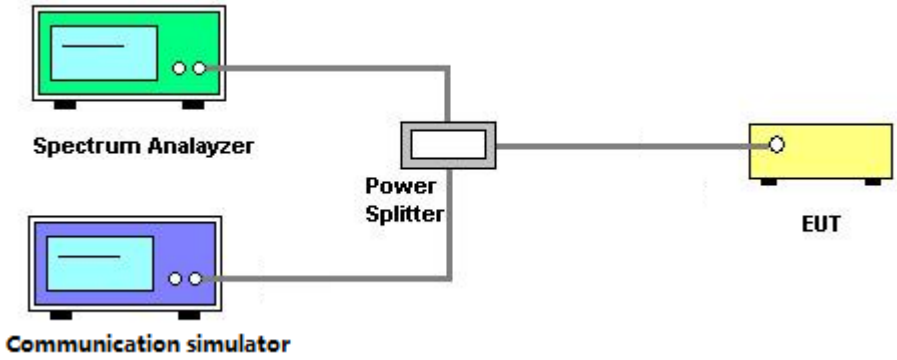
4.3.1 LIMIT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log10 (P) dB. The limit of emission is equal to -13dBm.

4.3.2 TEST PROCEDURES

1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured. Set RBW>=1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Set spectrum analyzer with RMS detector.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from 43+10log(P)dB below the transmitter power P(Watts)
   =P(W)-[43+10log(P)](dB)
   =[30+10log(P)](dBm)-[43+10log(P)](dB)
   =-13dBm

4.3.3 TESTSETUP LAYOUT



4.3.4 TESTDEVIATION

No deviation

4.3.5 TEST RESULTS

Please refer to the Appendix C.

4.4 RADIATED EMISSIONS MEASUREMENT

4.4.1 LIMIT

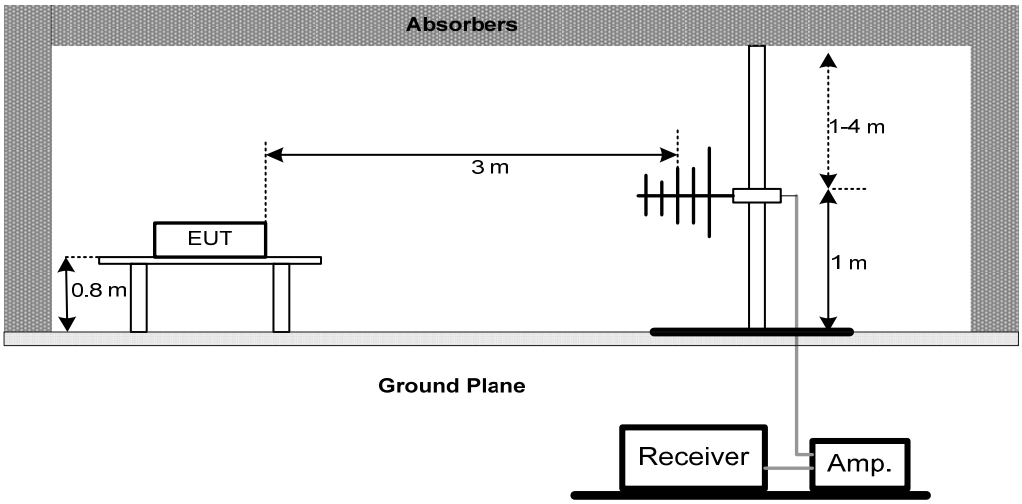
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log10 (P) dB. The limit of emission is equal to -13dBm.

4.4.2 TEST PROCEDURES

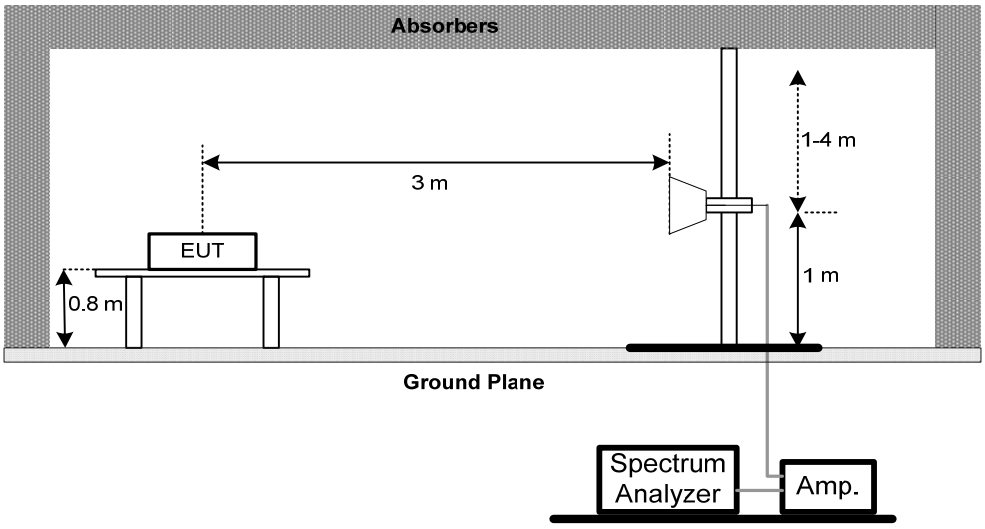
1. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
2. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value “ of step a. Record the power level of S.G
3. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
4. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15dBi.
5. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.4.3 TESTSETUP LAYOUT

Below 1G



Above 1G



4.4.4 TESTDEVIATION

No deviation

4.4.5 TEST RESULTS

Please refer to the Appendix D.

4.5 BAND EDGE /EMISSION MASK MEASUREMENT

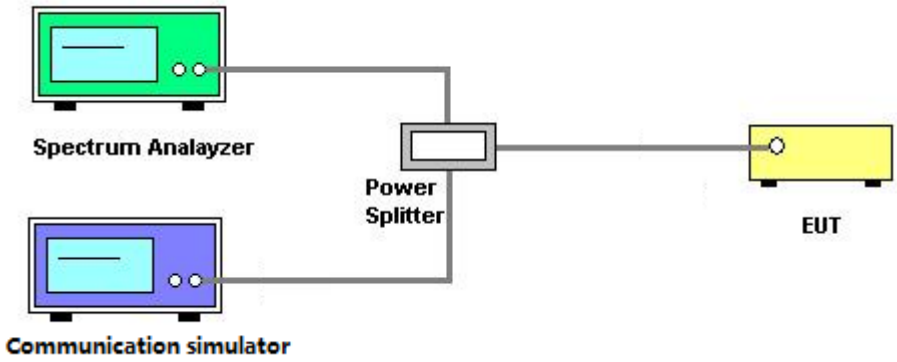
4.5.1 LIMIT

According to FCC part 90.691 shall be tested the emission mask. For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50+10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

4.5.2 TEST PROCEDURES

1. All measurements were done at low and high operational frequency range.
2. Set RBW=1% of 26dBc bandwidth, VBW=3 X RBW, detector=RMS, Sweep time = Auto.
3. Record the max trace plot into the test report.

4.5.3 TESTSETUP LAYOUT



4.5.4 TESTDEVIATION

No deviation

4.5.5 TEST RESULTS

Please refer to the Appendix E.

4.6 FREQUENCY STABILITY MEASUREMENT

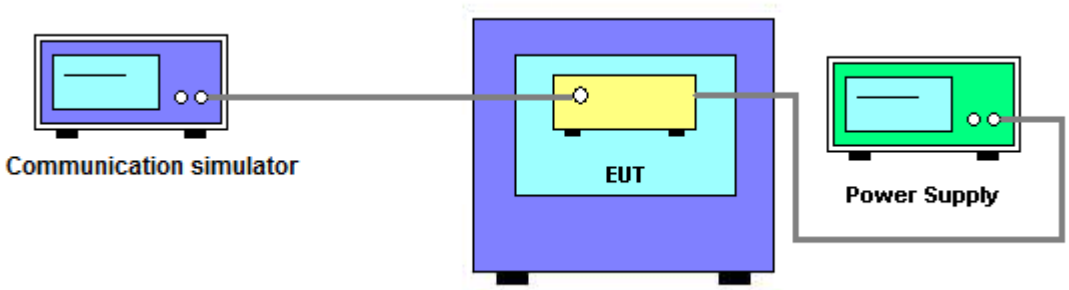
4.6.1 LIMIT

1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

4.6.2 TEST PROCEDURES

1. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
2. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
3. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5°C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.
4. The frequency error was recorded frequency error from the communication simulator.

4.6.3 TESTSETUP LAYOUT



4.6.4 TESTDEVIATION

No deviation

4.6.5 TEST RESULTS

Please refer to the Appendix F.

5. LIST OF MEASUREMENT EQUIPMENTS

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Preamplifier	EMCI	012645B	980267	Feb. 28, 2018
2	Preamplifier	EMCI	EMC02325	980217	Dec. 29, 2017
3	Preamplifier	EMCI	EMC2654045	980030	Feb. 14, 2018
4	Test Cable	EMCI	EMC104-SM-SM-8000	8m	Jan. 04, 2018
5	Test Cable	EMCI	EMC104-SM-SM-800	150207	Jan. 04, 2018
6	Test Cable	EMCI	EEMC104-SM-SM-3000	151205	Jan. 04, 2018
7	MXE EMI Receiver	Agilent	N9038A	MY55420127	Jan. 09, 2018
8	Signal Analyzer	Agilent	N9010A	MY52220990	Feb. 22, 2018
9	Loop Ant	EMCO	6502	42960	Nov. 24, 2017
10	Horm Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	Feb. 28, 2018
11	Horm Ant	Schwarzbeck	BBHA 9170	187	Dec. 07, 2017
12	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-548	Jan. 16, 2018
13	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0623	Jan. 16, 2018

Conducted Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Keysight	N9010A	MY54200240	Aug. 27, 2018
2	Radio Com Analyzer	Anritsu	MT8820C	6201525878	Sep. 05, 2019

Frequency Stability Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Keysight	N9010A	MY54200240	Aug. 27, 2018
2	Radio Com Analyzer	Anritsu	MT8820C	6201525878	Sep. 05, 2019
3	Thermal Chamber	HOLINK	CHOLINK/H-T-1F-D	BA03101701	May 14, 2018

Remark: ”N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

APPENDIX A - OUTPUT POWER

Conducted Power_Band 26						
Bandwith	Modulation	RB Sizet	RB Offset	Low CH	Mid CH	High CH
				26697 CH	26740 CH	26783 CH
				814.7 MHz	819 MHz	823.3 MHz
1.4M	QPSK	1	0	23.20	23.22	23.19
		1	2	22.79	23.41	23.28
		1	5	23.25	23.27	23.24
		3	0	23.30	23.03	22.73
		3	1	22.92	22.59	22.59
		3	2	23.13	23.07	23.34
		6	0	22.23	22.12	22.12
	16QAM	1	0	22.53	22.65	22.58
		1	2	22.34	22.34	22.21
		1	5	22.53	22.72	22.53
		3	0	21.97	21.99	22.19
		3	1	22.21	22.16	22.25
		3	2	22.11	22.08	22.01
		6	0	21.26	21.12	20.90
Bandwith	Modulation	RB Sizet	RB Offset	Low CH	Mid CH	High CH
				26705 CH	26740 CH	26775 CH
				815.5 MHz	819 MHz	822.5 MHz
3M	QPSK	1	0	23.34	23.04	23.17
		1	7	22.84	22.98	22.97
		1	14	23.28	23.17	23.18
		8	0	22.14	22.12	22.04
		8	4	22.21	22.04	22.23
		8	7	22.22	22.11	22.08
		15	0	22.27	22.21	22.17
	16QAM	1	0	22.44	22.62	22.11
		1	7	21.97	22.14	21.84
		1	14	22.52	22.37	22.45
		8	0	21.07	21.20	21.22
		8	4	21.21	21.31	21.19
		8	7	21.14	21.11	21.25
		15	0	21.22	21.25	21.17

Note: The Conducted Power=measured value+cabel loss.

Conducted Power_Band 26						
Bandwith	Modulation	RB Sizet	RB Offset	Low CH	Mid CH	High CH
				26715 CH	26740 CH	26765 CH
				816.5 MHz	819 MHz	821.5 MHz
5M	QPSK	1	0	23.23	23.23	23.27
		1	13	23.32	23.22	23.26
		1	24	23.24	23.17	23.14
		12	0	22.27	22.25	22.25
		12	6	22.25	22.25	22.30
		12	11	22.25	22.21	22.24
		25	0	22.18	22.24	22.25
	16QAM	1	0	22.41	22.37	22.27
		1	13	22.79	22.59	22.62
		1	24	22.74	22.53	22.47
		12	0	21.25	21.26	21.29
		12	6	21.22	21.29	21.22
		12	11	21.11	21.13	21.12
		25	0	21.19	21.17	21.14

Bandwith	Modulation	RB Sizet	RB Offset	Mid CH
				26740 CH
				819 MHz
10M	QPSK	1	0	23.18
		1	25	22.65
		1	49	23.19
		25	0	22.23
		25	13	22.23
		25	25	22.23
		50	0	22.20
	16QAM	1	0	22.46
		1	25	22.02
		1	49	22.56
		25	0	21.23
		25	13	21.18
		25	25	21.20
		50	0	21.13

Note: The Conducted Power=measured value+cabel loss.

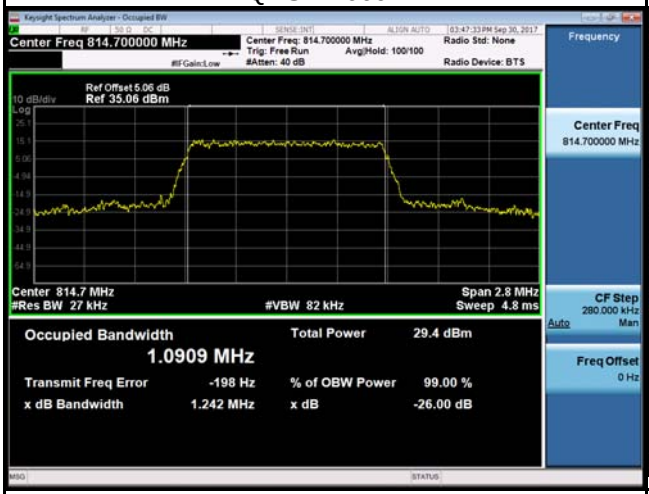
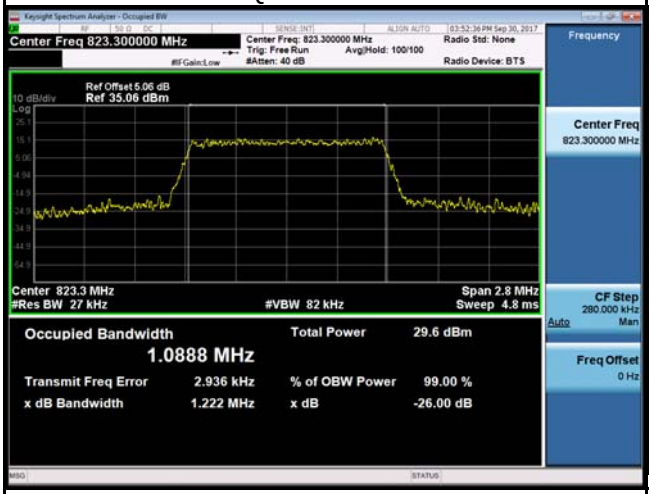
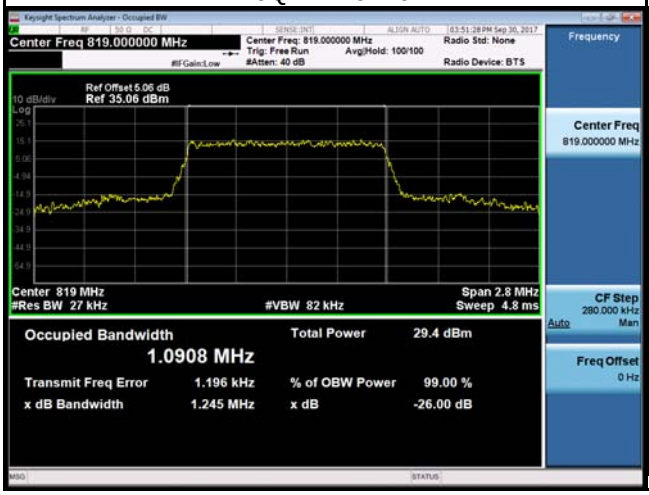
ERP Power_Band 26						
Bandwith	Modulation	RB Sizet	RB Offset	Low CH	Mid CH	High CH
				26697 CH	26740 CH	26783 CH
				814.7 MHz	819 MHz	823.3 MHz
1.4M	QPSK	1	0	18.98	19.00	18.97
		1	2	18.57	19.19	19.06
		1	5	19.03	19.05	19.02
		3	0	19.08	18.81	18.51
		3	1	18.70	18.37	18.37
		3	2	18.91	18.85	19.12
		6	0	18.01	17.90	17.90
	16QAM	1	0	18.31	18.43	18.36
		1	2	18.12	18.12	17.99
		1	5	18.31	18.50	18.31
		3	0	17.75	17.77	17.97
		3	1	17.99	17.94	18.03
		3	2	17.89	17.86	17.79
		6	0	17.04	16.90	16.68
Bandwith	Modulation	RB Sizet	RB Offset	Low CH	Mid CH	High CH
				26705 CH	26740 CH	26775 CH
				815.5 MHz	819 MHz	822.5 MHz
3M	QPSK	1	0	19.12	18.82	18.95
		1	7	18.62	18.76	18.75
		1	14	19.06	18.95	18.96
		8	0	17.92	17.90	17.82
		8	4	17.99	17.82	18.01
		8	7	18.00	17.89	17.86
		15	0	18.05	17.99	17.95
	16QAM	1	0	18.22	18.40	17.89
		1	7	17.75	17.92	17.62
		1	14	18.30	18.15	18.23
		8	0	16.85	16.98	17.00
		8	4	16.99	17.09	16.97
		8	7	16.92	16.89	17.03
		15	0	17.00	17.03	16.95

EIRP Power_Band 26						
Bandwith	Modulation	RB Sizet	RB Offset	Low CH	Mid CH	High CH
				26715 CH	26740 CH	26765 CH
				816.5 MHz	819 MHz	821.5 MHz
5M	QPSK	1	0	19.01	19.01	19.05
		1	13	19.10	19.00	19.04
		1	24	19.02	18.95	18.92
		12	0	18.05	18.03	18.03
		12	6	18.03	18.03	18.08
		12	11	18.03	17.99	18.02
		25	0	17.96	18.02	18.03
	16QAM	1	0	18.19	18.15	18.05
		1	13	18.57	18.37	18.40
		1	24	18.52	18.31	18.25
		12	0	17.03	17.04	17.07
		12	6	17.00	17.07	17.00
		12	11	16.89	16.91	16.90
		25	0	16.97	16.95	16.92

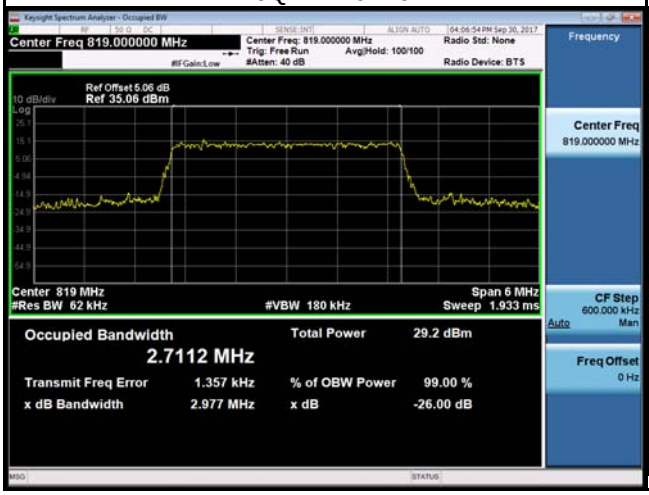
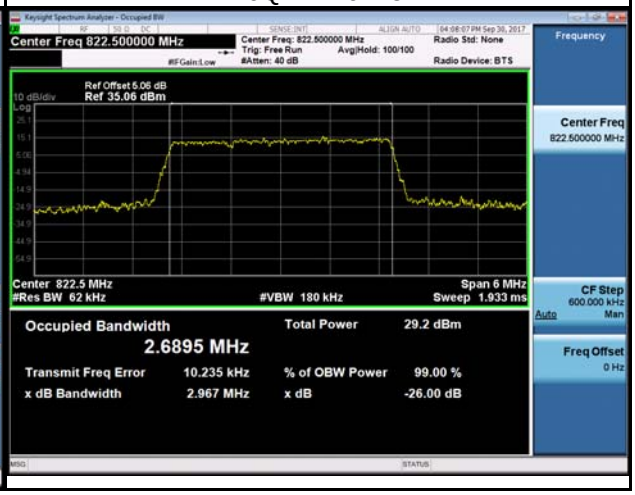
Bandwith	Modulation	RB Sizet	RB Offset	Mid CH
				26740 CH
				819 MHz
10M	QPSK	1	0	18.96
		1	25	18.43
		1	49	18.97
		25	0	18.01
		25	13	18.01
		25	25	18.01
		50	0	17.98
	16QAM	1	0	18.24
		1	25	17.80
		1	49	18.34
		25	0	17.01
		25	13	16.96
		25	25	16.98
		50	0	16.91

APPENDIX B - OCCUPIED BANDWIDTH

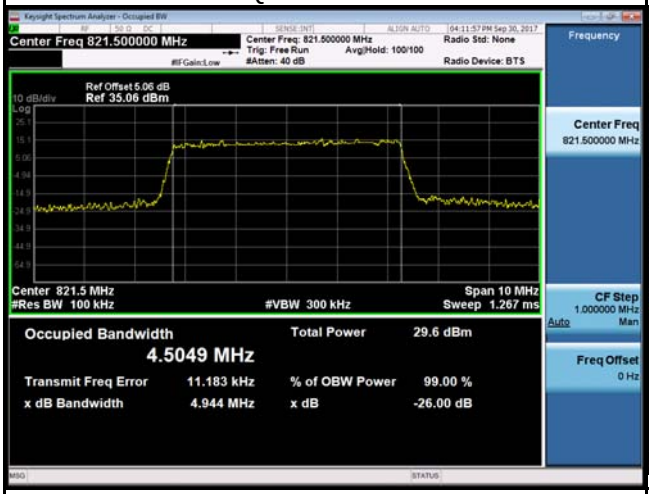
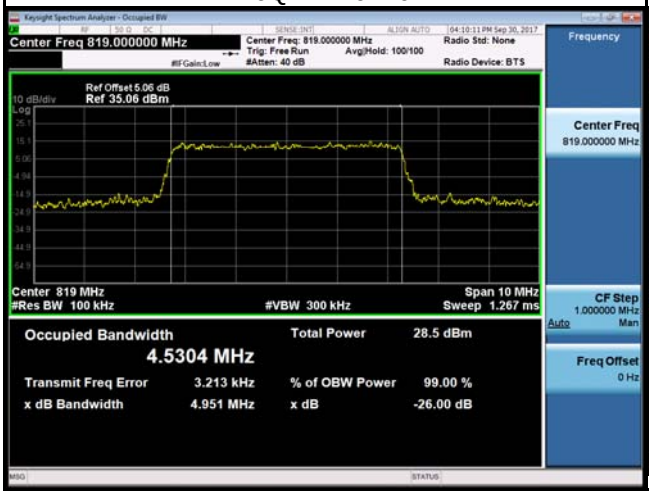
LTE Band 26_1.4M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
26697	814.7	1.0909	26697	814.7	1.0861
26740	819	1.0876	26740	819	1.0908
26783	823.3	1.0888	26783	823.3	1.0904
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26697	814.7	1.242	26697	814.7	1.237
26740	819	1.242	26740	819	1.245
26783	823.3	1.222	26783	823.3	1.235

Spectrum Plot	
QPSK-26697	QPSK-26740
	
QPSK-26783	16QAM-26697
	
16QAM-26740	16QAM-26783
	

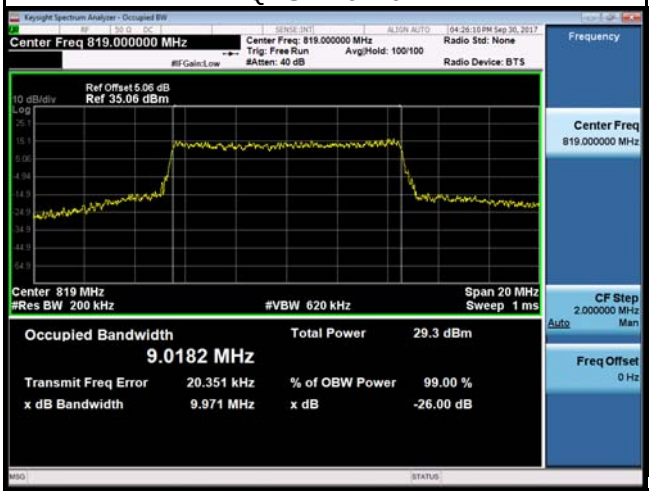
LTE Band 26_3M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
26705	815.5	2.6971	26705	815.5	2.6976
26740	819	2.6961	26740	819	2.7112
26775	822.5	2.7058	26775	822.5	2.6895
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26705	815.5	2.995	26705	815.5	2.971
26740	819	2.996	26740	819	2.977
26775	822.5	2.956	26775	822.5	2.967

Spectrum Plot	
QPSK-26705	QPSK-26740
QPSK-26775	16QAM-26705
16QAM-26740	16QAM-26775
	

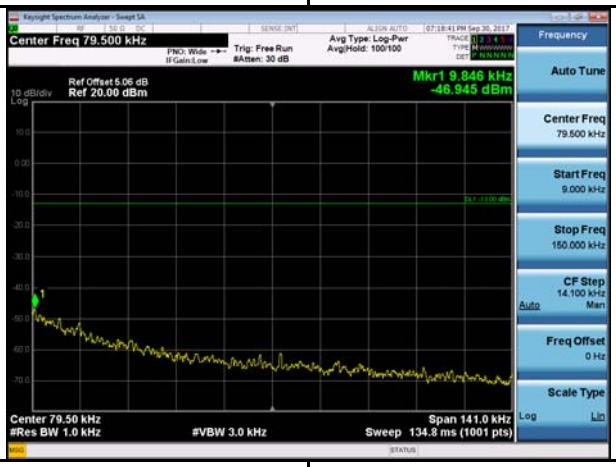
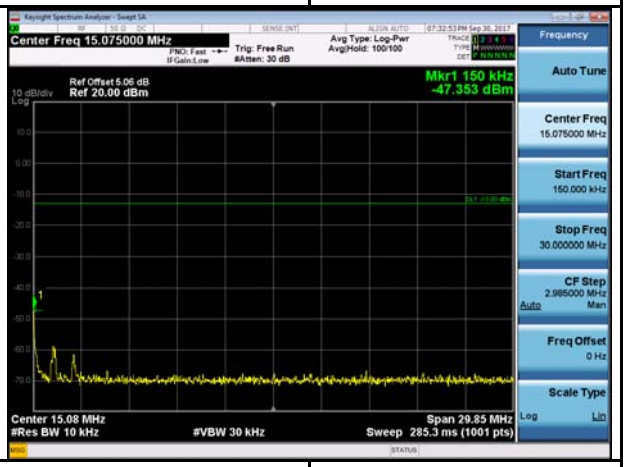
LTE Band 26_5M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
26715	816.5	4.5117	26715	816.5	4.5205
26740	819	4.5105	26740	819	4.5304
26765	821.5	4.5049	26765	821.5	4.5160
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26715	816.5	4.917	26715	816.5	4.876
26740	819	4.945	26740	819	4.951
26765	821.5	4.944	26765	821.5	4.913

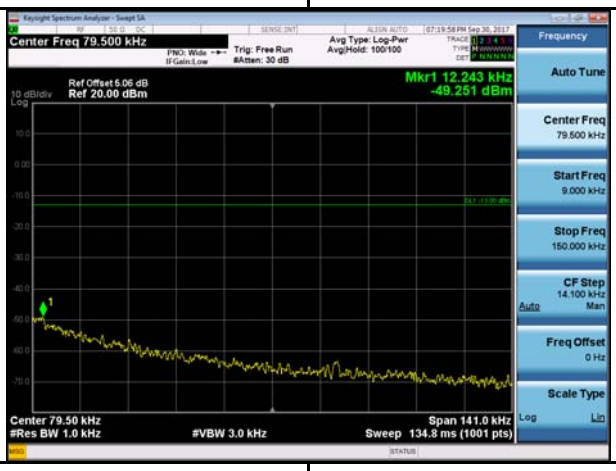
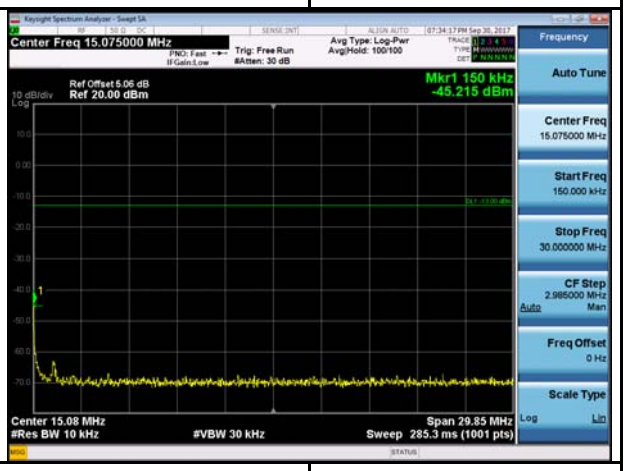
Spectrum Plot	
QPSK-26715	QPSK-26740
QPSK-26765	16QAM-26715
	
16QAM-26740	16QAM-26765
	

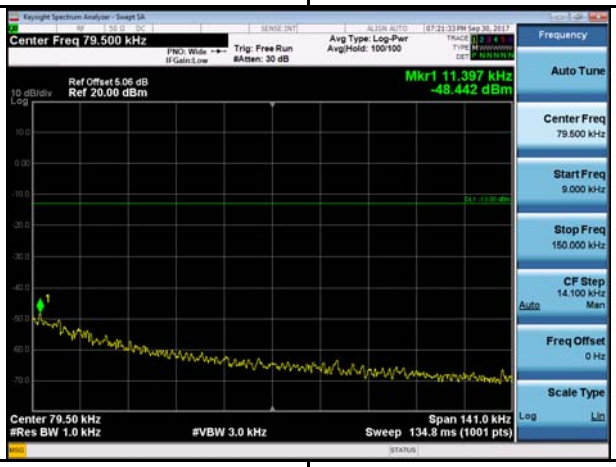
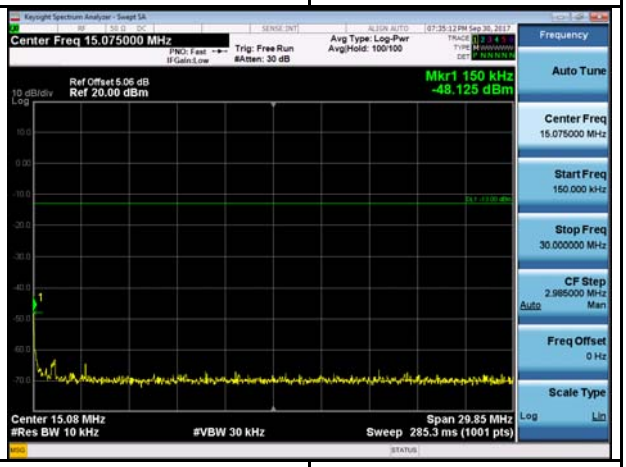
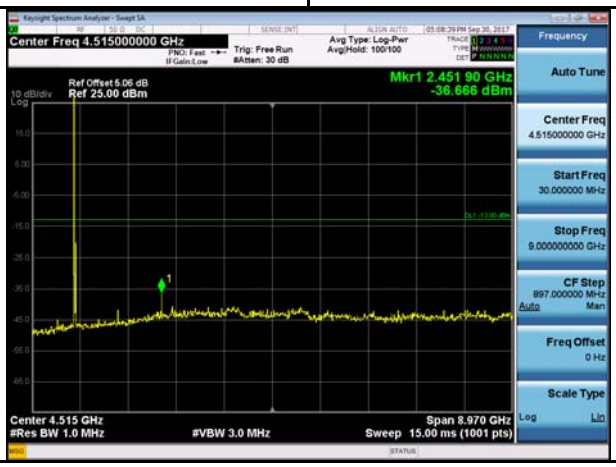
LTE Band 26_10M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
26740	819	9.0182	26740	819	9.0743
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26740	819	9.971	26740	819	9.941

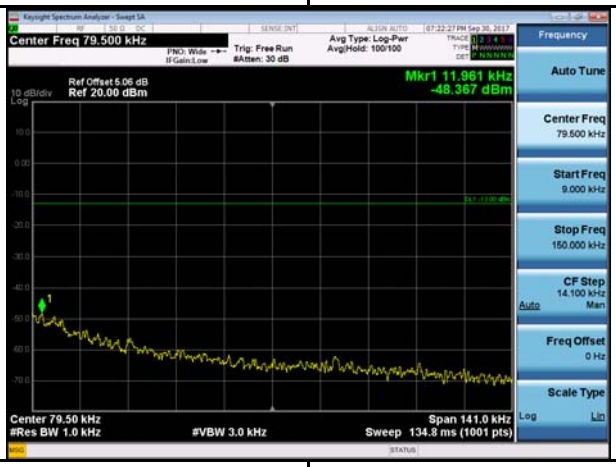
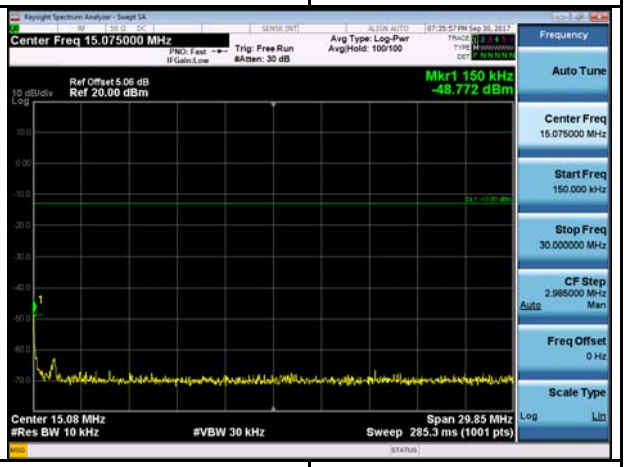
Spectrum Plot	
QPSK-26740	16QAM-26740
	

APPENDIX C - CONDUCTED EMISSIONS

LTE Band 26_1.4M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
26740	819	26740	819
			
Channel	Frequency(MHz)	-	-
26740	819	-	-
		-	

LTE Band 26_3M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
26740	819	26740	819
			
Channel	Frequency(MHz)	-	-
26740	819	-	-
		-	

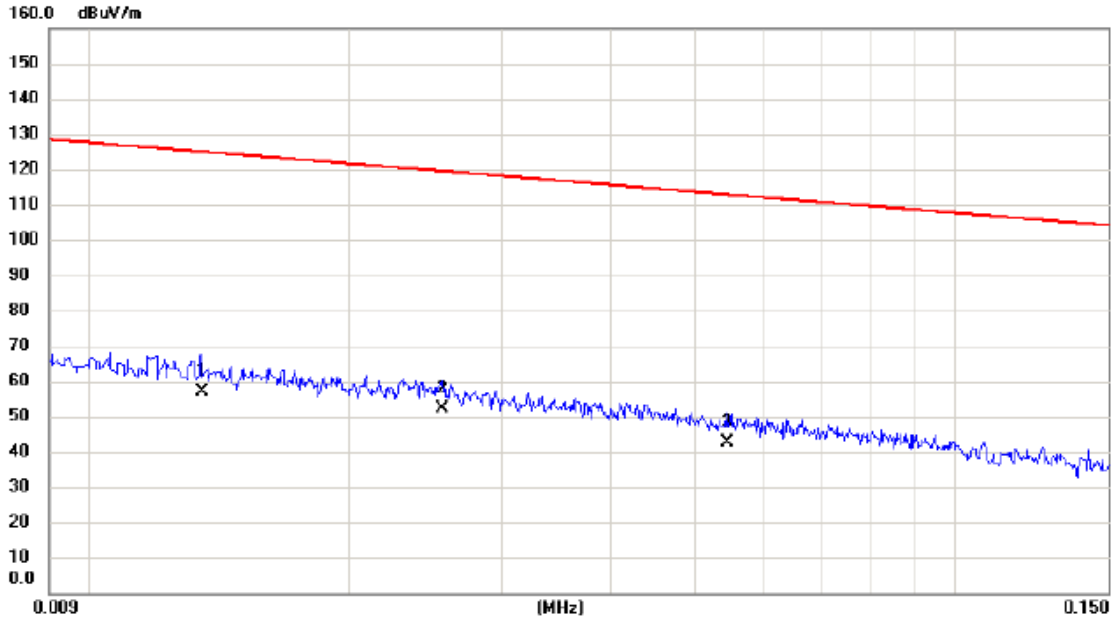
LTE Band 26_5M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
26740	819	26740	819
			
Channel	Frequency(MHz)	-	-
26740	819	-	-
		-	

LTE Band 26_10M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
26740	819	26740	819
			
Channel	Frequency(MHz)	-	-
26740	819	-	-
		-	

APPENDIX D - RADIATED EMISSION

Test Mode:	TX Mode (Adapter: PHITEK)

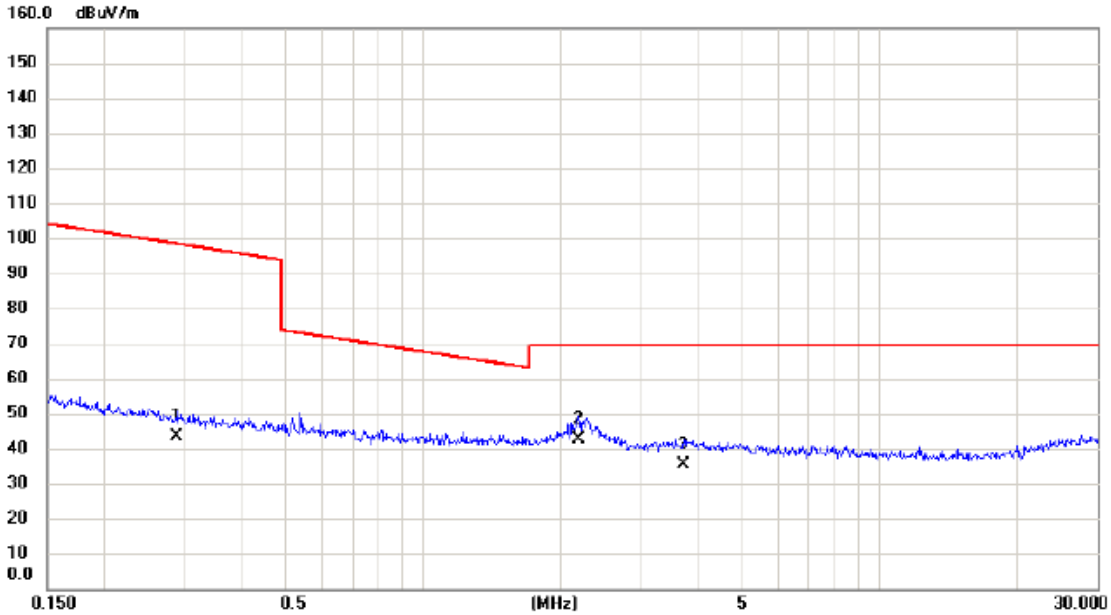
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0135	36.48	20.47	56.95	125.00	-68.05	AVG	
2	*	0.0256	32.63	19.45	52.08	119.44	-67.36	AVG	
3		0.0545	23.94	18.63	42.57	112.88	-70.31	AVG	

Test Mode:	TX Mode (Adapter: PHITEK)

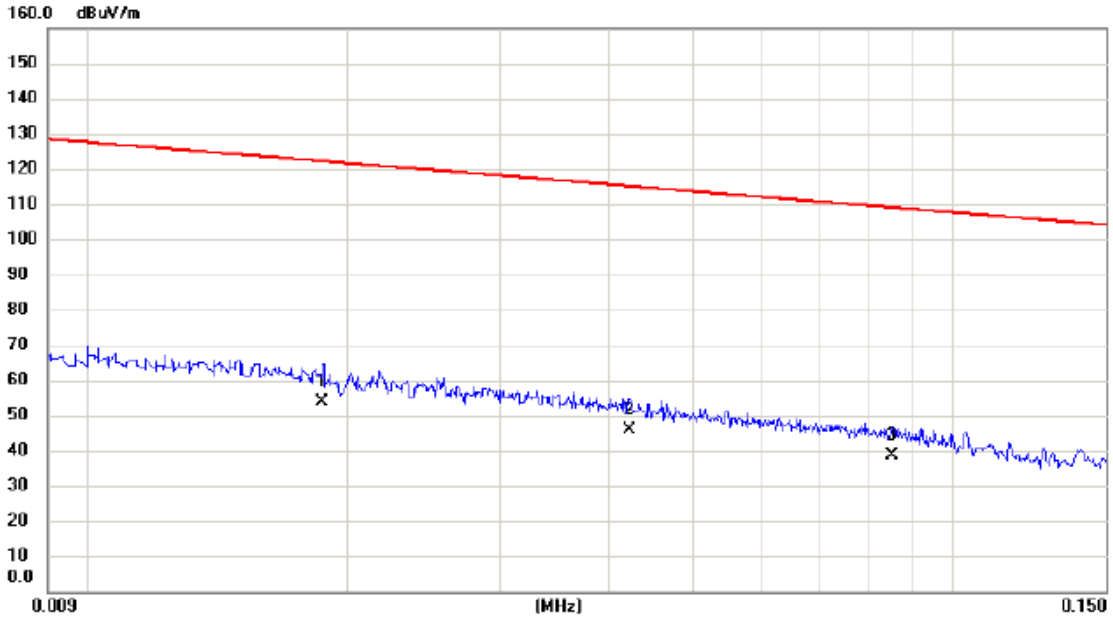
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2893	26.58	16.63	43.21	98.38	-55.17	AVG	
2	*	2.1898	27.18	15.45	42.63	69.54	-26.91	QP	
3		3.7198	20.49	15.02	35.51	69.54	-34.03	QP	

Test Mode:	TX Mode (Adapter: PHITEK)

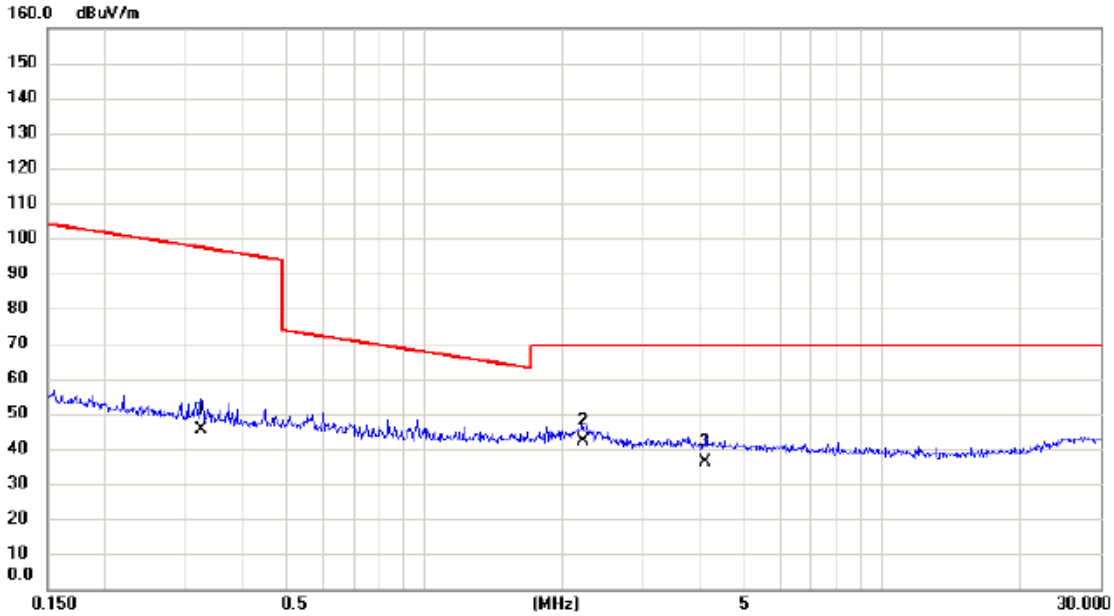
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0187	34.06	19.79	53.85	122.17	-68.32	AVG	
2		0.0423	26.75	18.95	45.70	115.08	-69.38	AVG	
3		0.0851	20.49	17.99	38.48	109.01	-70.53	AVG	

Test Mode:	TX Mode (Adapter: PHITEK)

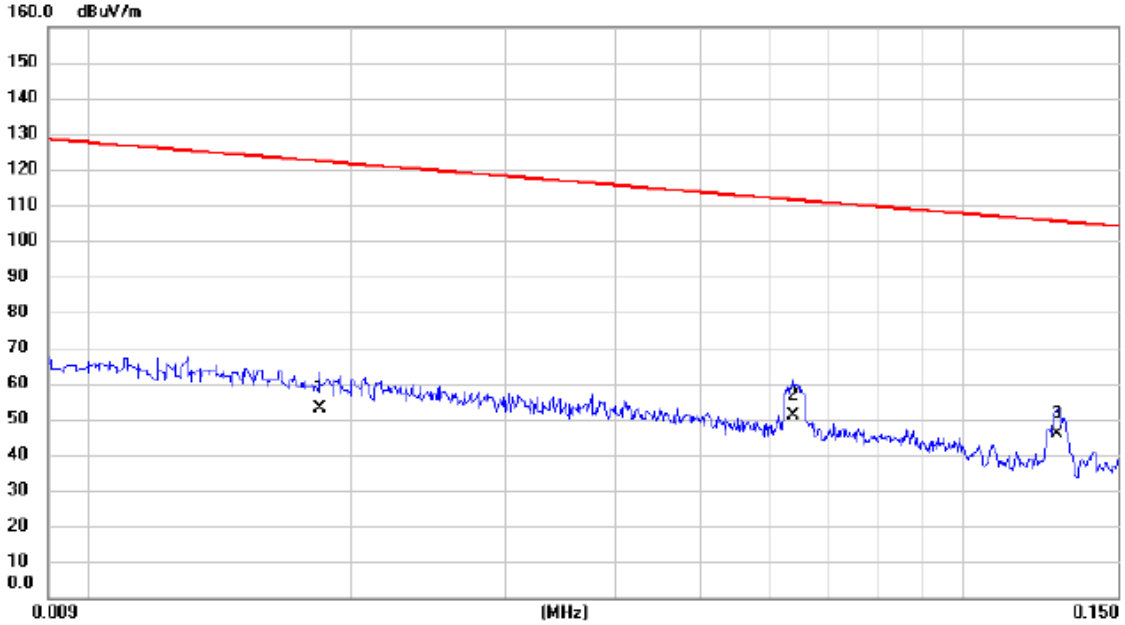
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.3251	28.64	16.60	45.24	97.36	-52.12	AVG	
2	*	2.2132	26.57	15.45	42.02	69.54	-27.52	QP	
3		4.1137	21.39	14.88	36.27	69.54	-33.27	QP	

Test Mode:	TX Mode (Adapter: HUNTKEY)

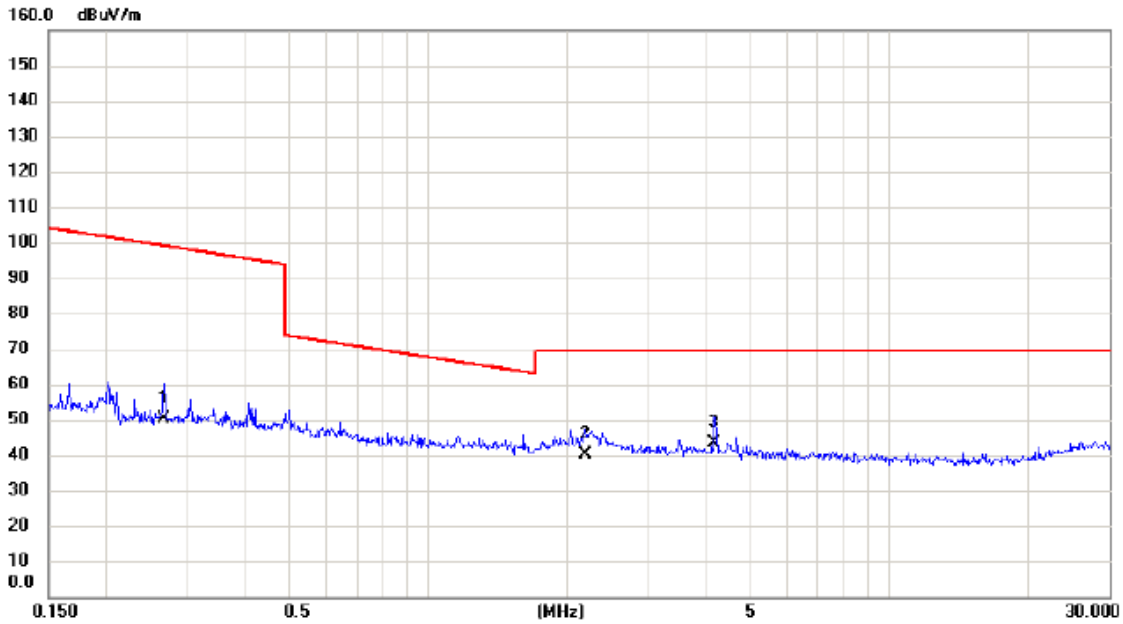
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.018	32.99	19.83	52.82	122.31	-69.49	AVG	
2		0.064	32.64	18.45	51.09	111.48	-60.39	AVG	
3	*	0.128	28.49	17.25	45.74	105.46	-59.72	AVG	

Test Mode:	TX Mode (Adapter: HUNTKEY)

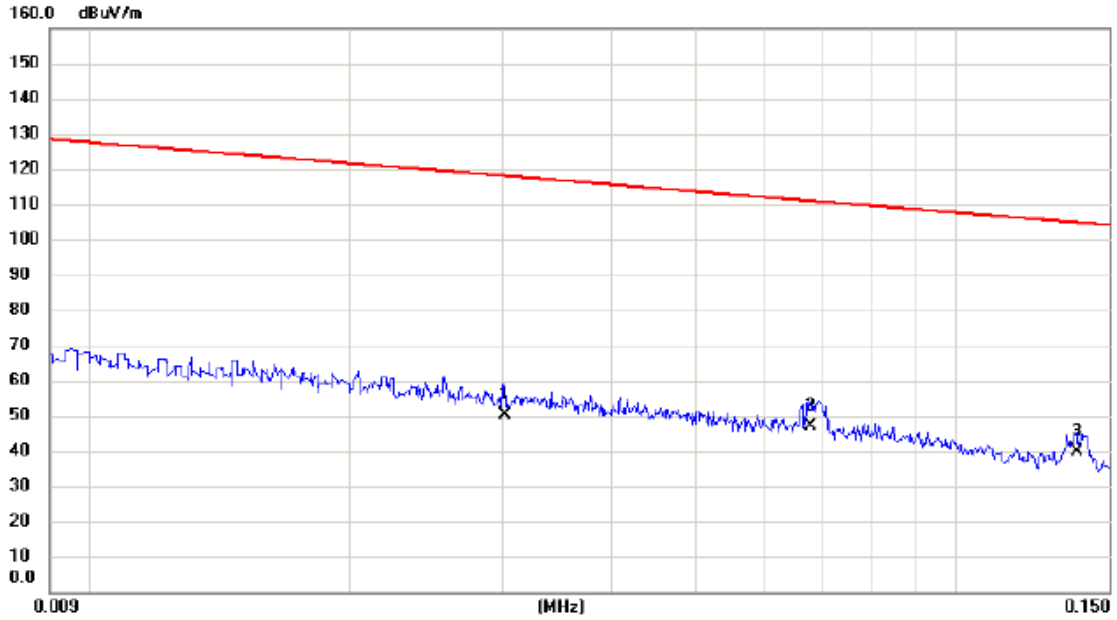
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2672	33.71	16.65	50.36	99.07	-48.71	AVG	
2		2.1898	24.59	15.45	40.04	69.54	-29.50	QP	
3	*	4.1796	28.46	14.84	43.30	69.54	-26.24	QP	

Test Mode:	TX Mode (Adapter: HUNTKEY)

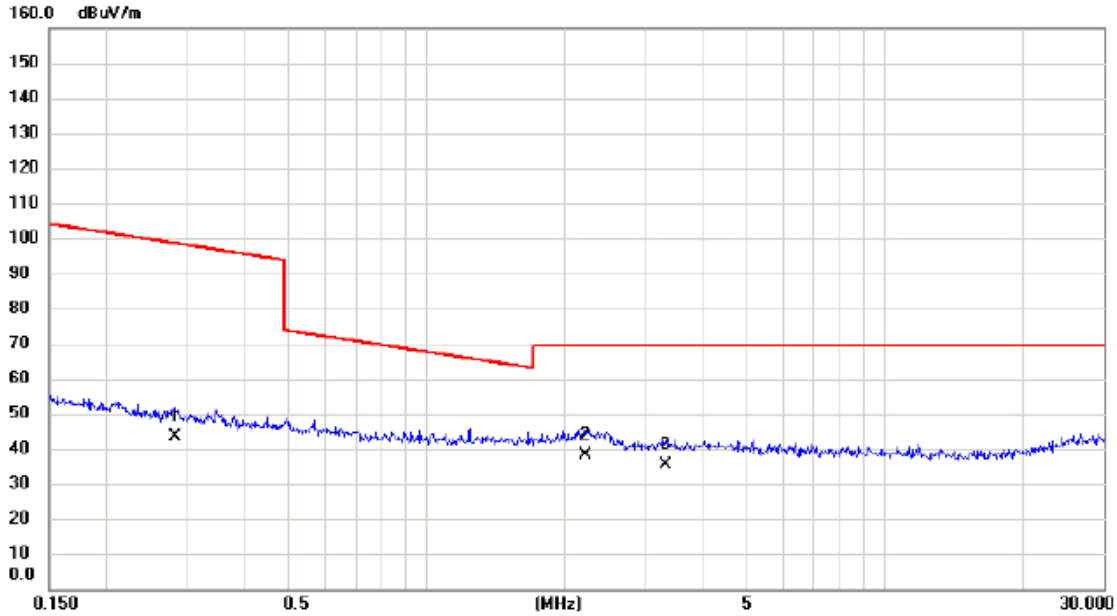
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0302	30.84	19.31	50.15	118.00	-67.85	AVG	
2	*	0.0678	28.49	18.37	46.86	110.98	-64.12	AVG	
3		0.1380	22.75	17.12	39.87	104.81	-64.94	QP	

Test Mode:	TX Mode (Adapter: HUNTKEY)

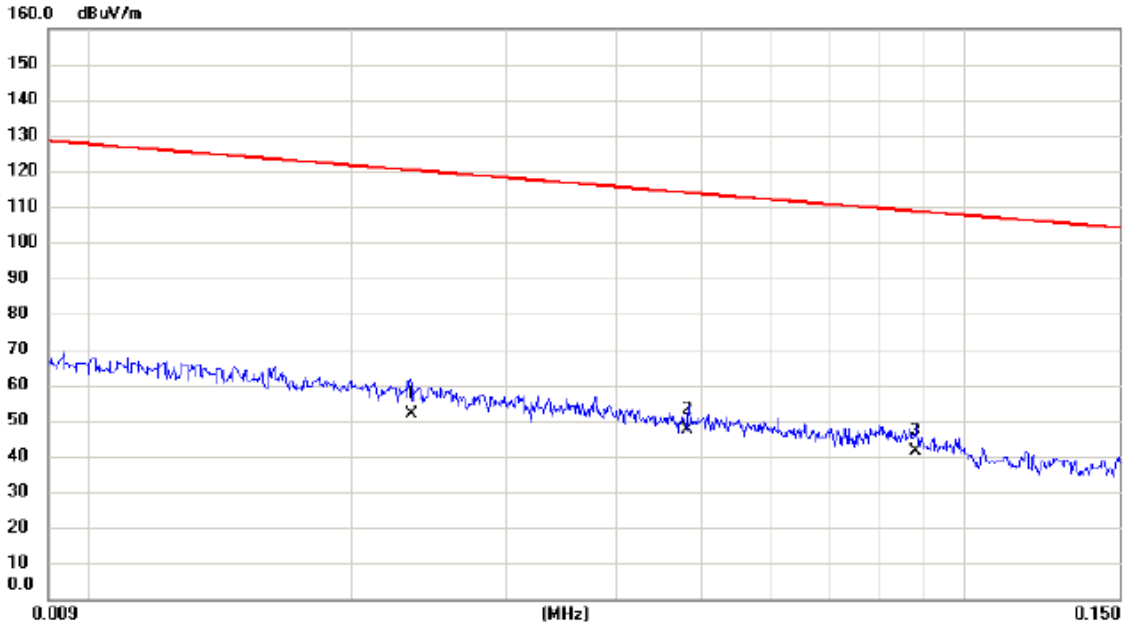
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2818	26.84	16.63	43.47	98.61	-55.14	AVG	
2	*	2.2250	22.65	15.44	38.09	69.54	-31.45	QP	
3		3.3281	20.17	15.14	35.31	69.54	-34.23	QP	

Test Mode:	TX Mode (Adapter: Salcomp)

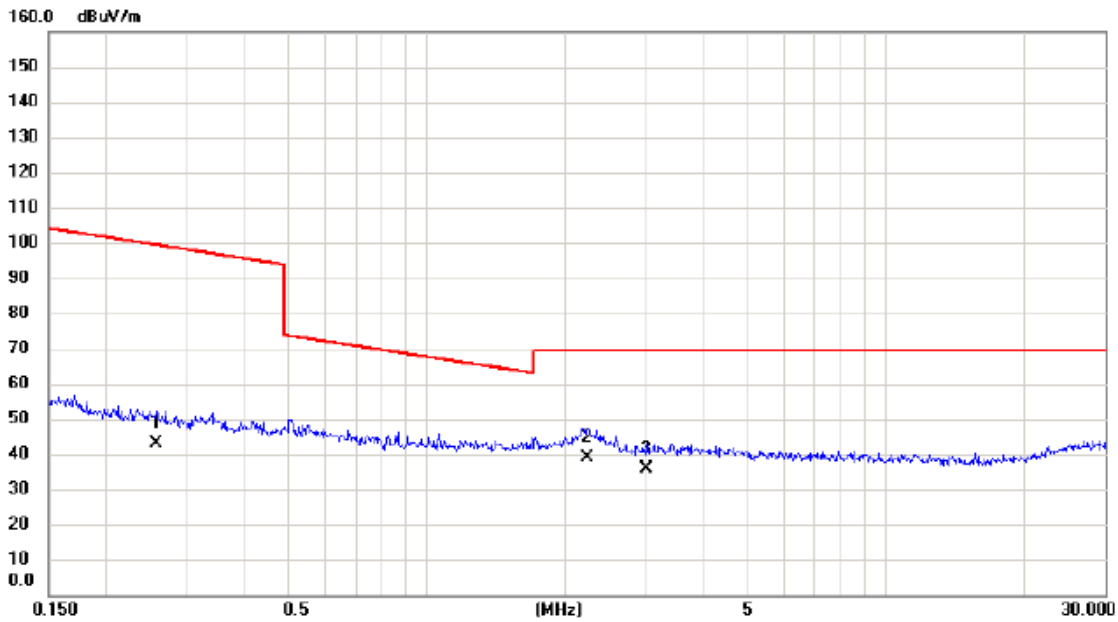
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0234	32.38	19.52	51.90	120.22	-68.32	AVG	
2	*	0.0483	28.49	18.77	47.26	113.93	-66.67	AVG	
3		0.0880	23.67	17.92	41.59	108.72	-67.13	AVG	

Test Mode:	TX Mode (Adapter: Salcomp)

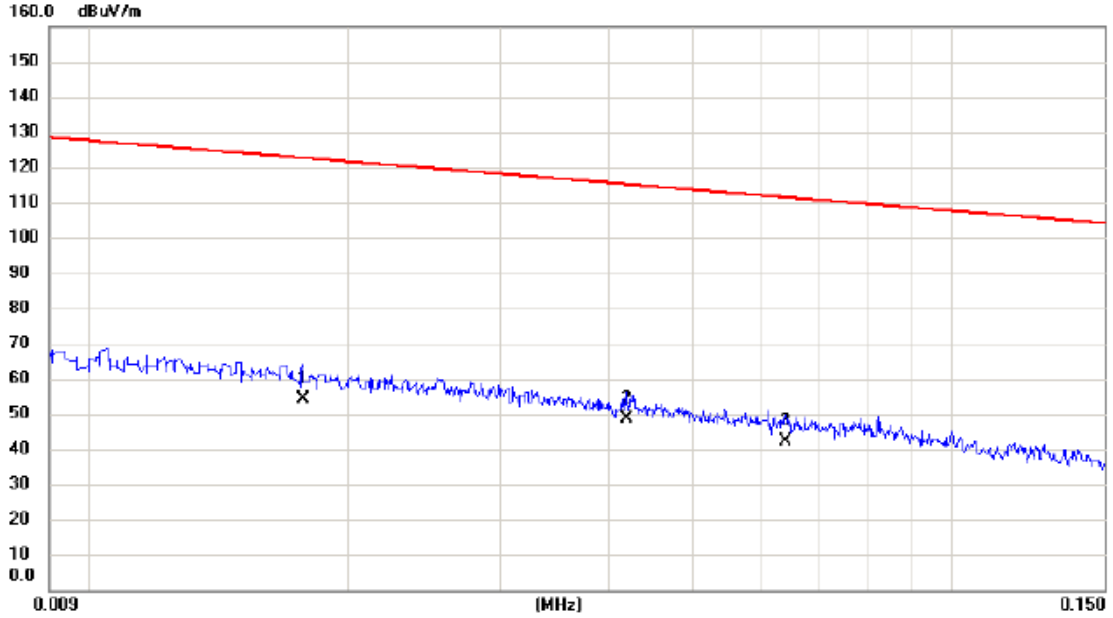
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2575	26.47	16.65	43.12	99.39	-56.27	AVG	
2	*	2.2367	23.58	15.44	39.02	69.54	-30.52	QP	
3		3.0094	20.69	15.23	35.92	69.54	-33.62	QP	

Test Mode:	TX Mode (Adapter: Salcomp)

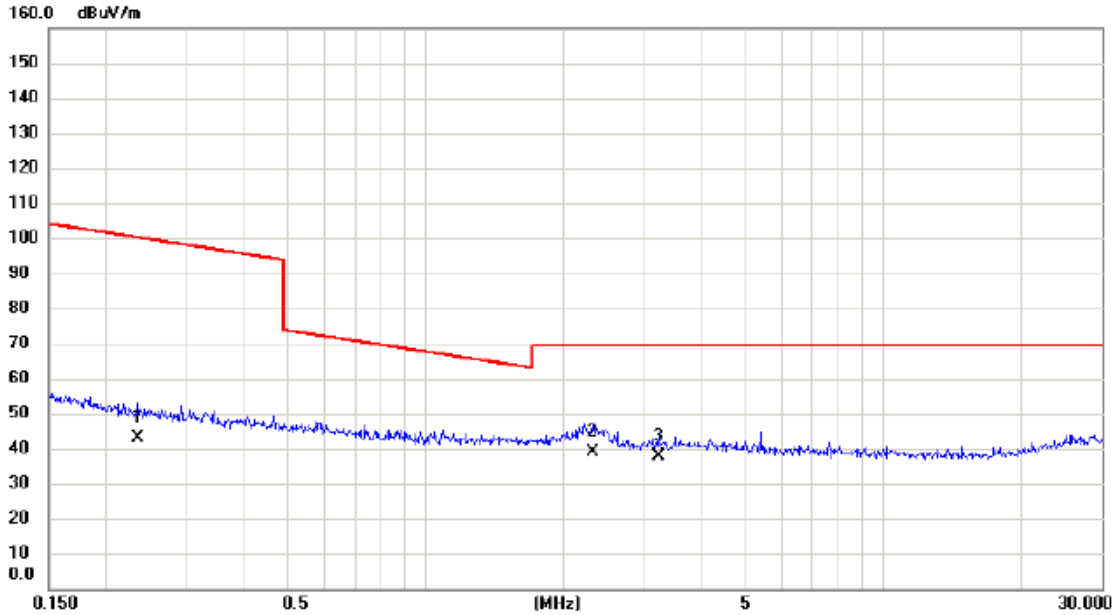
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0177	34.11	19.92	54.03	122.65	-68.62	AVG	
2	*	0.0420	29.47	18.96	48.43	115.14	-66.71	AVG	
3		0.0641	23.58	18.45	42.03	111.47	-69.44	AVG	

Test Mode:	TX Mode (Adapter: Salcomp)

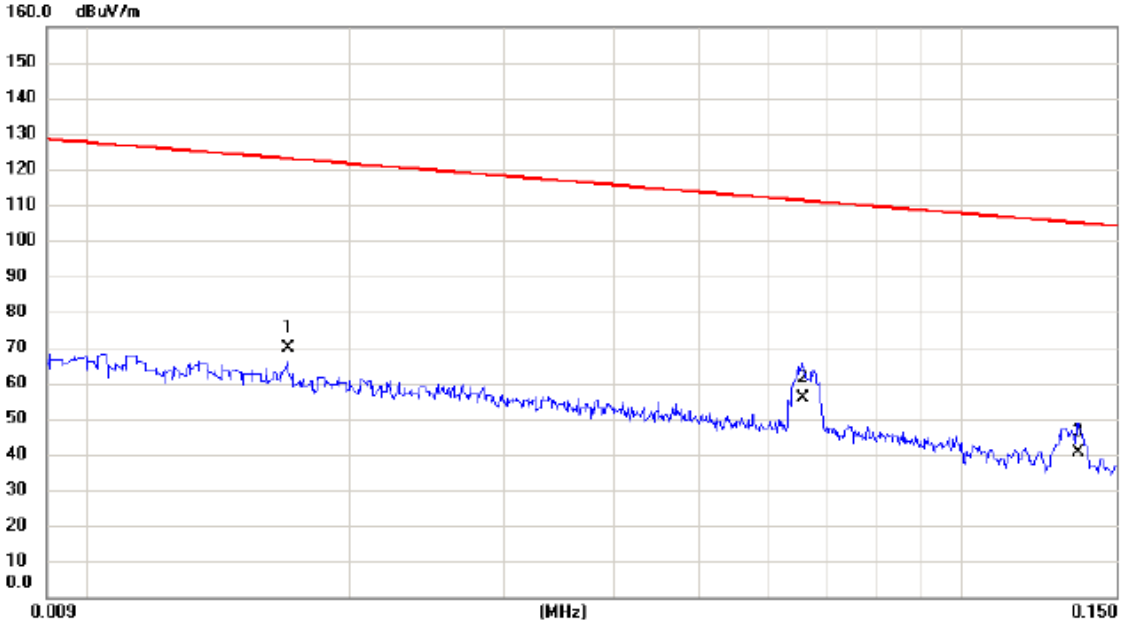
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2341	26.34	16.70	43.04	100.22	-57.18	AVG	
2	*	2.3090	23.58	15.43	39.01	69.54	-30.53	QP	
3		3.2240	22.61	15.16	37.77	69.54	-31.77	QP	

Test Mode:	TX Mode (Adapter: HUAWEI)

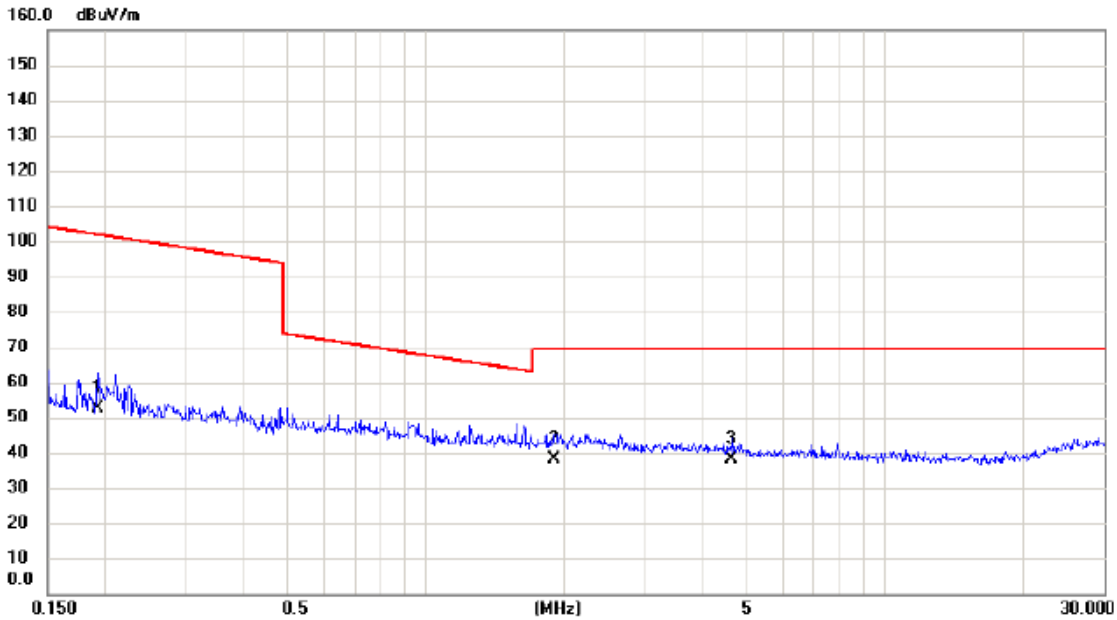
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0170	49.63	20.01	69.64	123.00	-53.36	AVG	
2		0.0658	37.22	18.41	55.63	111.24	-55.61	AVG	
3		0.1356	23.66	17.14	40.80	104.96	-64.16	QP	

Test Mode:	TX Mode (Adapter: HUAWEI)

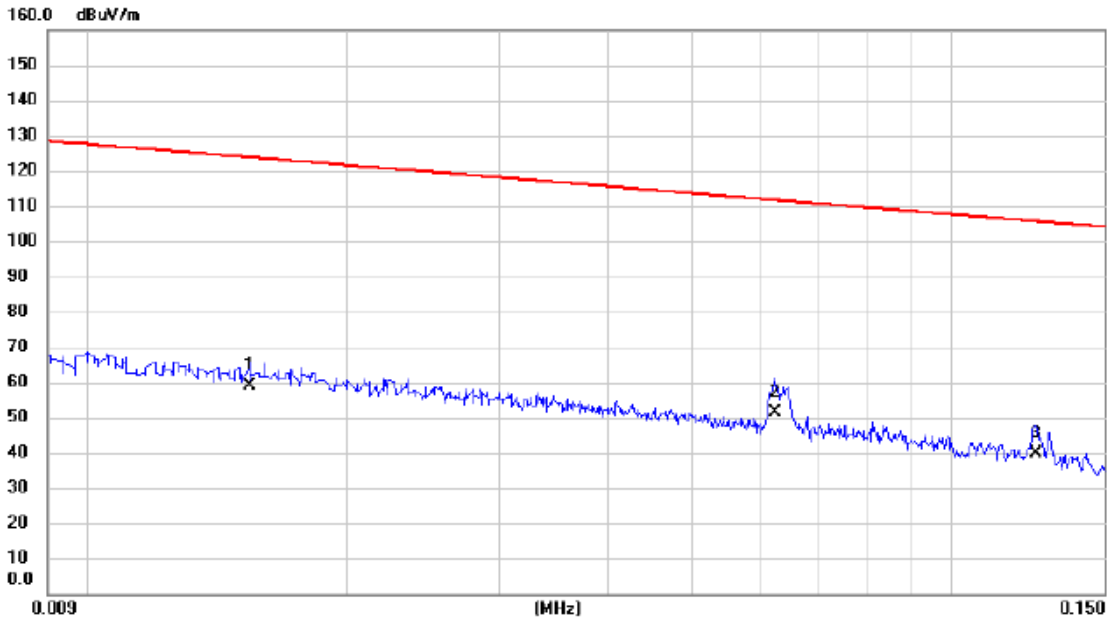
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1924	35.77	16.82	52.59	101.92	-49.33	AVG	
2	*	1.9080	22.61	15.55	38.16	69.54	-31.38	QP	
3		4.6468	23.54	14.57	38.11	69.54	-31.43	QP	

Test Mode:	TX Mode (Adapter: HUAWEI)

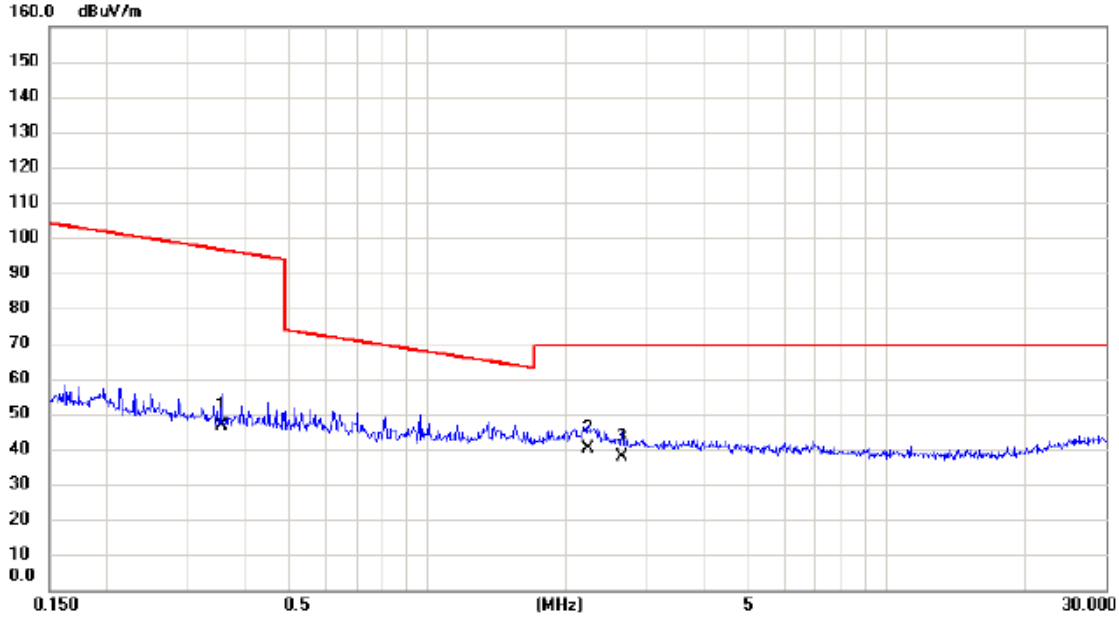
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.015	38.76	20.22	58.98	123.85	-64.87	AVG	
2	*	0.062	32.77	18.48	51.25	111.70	-60.45	AVG	
3		0.125	22.64	17.29	39.93	105.67	-65.74	AVG	

Test Mode:	TX Mode (Adapter: HUAWEI)

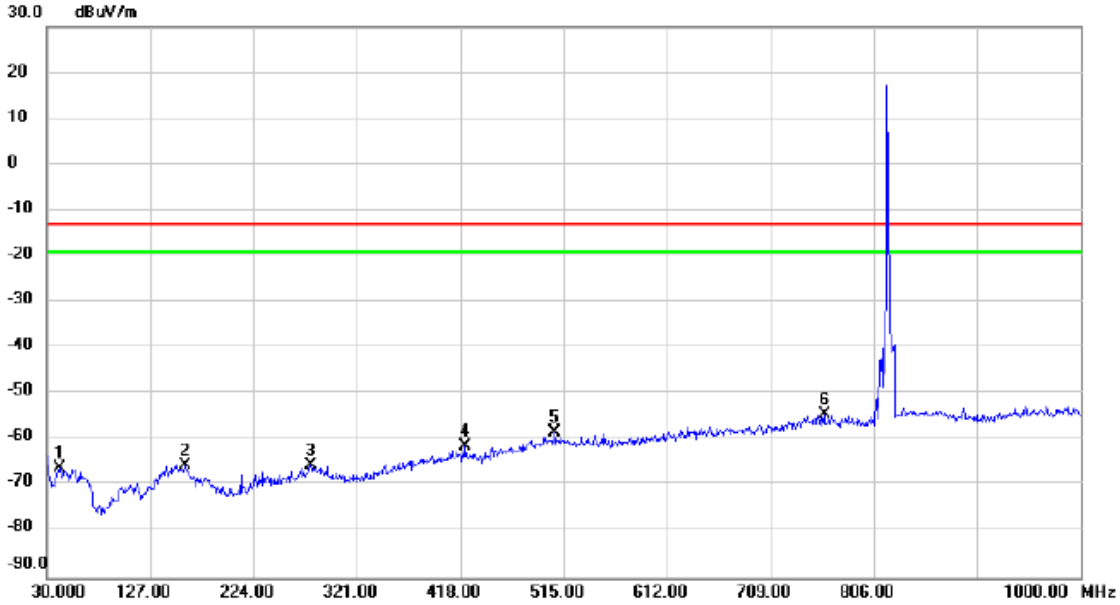
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.3558	30.02	16.58	46.60	96.58	-49.98	AVG	
2	*	2.2367	24.76	15.44	40.20	69.54	-29.34	QP	
3		2.6500	22.39	15.33	37.72	69.54	-31.82	QP	

Test Mode:	LTE Band 26_TX CH26740_1.4M_Main Ant

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		41.640	-67.55	1.41	-66.14	-13.00	-53.14	peak	
2		159.980	-74.68	9.24	-65.44	-13.00	-52.44	peak	
3		277.350	-74.06	8.43	-65.63	-13.00	-52.63	peak	
4		421.880	-75.05	13.63	-61.42	-13.00	-48.42	peak	
5		506.270	-73.03	14.56	-58.47	-13.00	-45.47	peak	
6	*	759.440	-73.27	18.82	-54.45	-13.00	-41.45	peak	

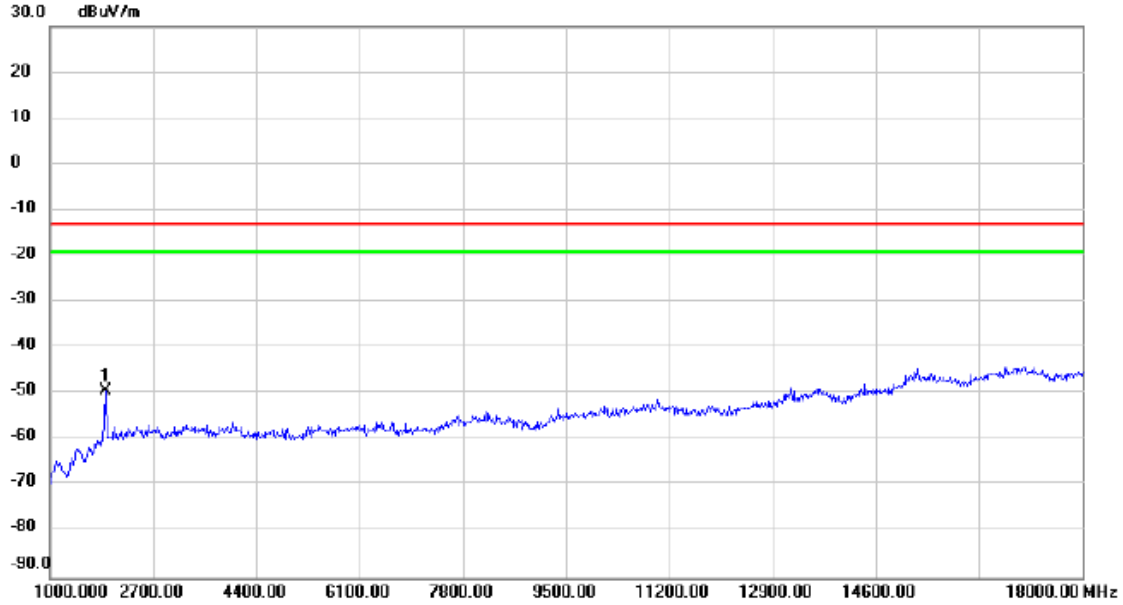
Test Mode:	LTE Band 26_TX CH26740_1.4M_Main Ant

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		155.130	-73.96	9.60	-64.36	-13.00	-51.36	peak	
2		239.520	-71.77	6.59	-65.18	-13.00	-52.18	peak	
3		416.060	-74.37	13.55	-60.82	-13.00	-47.82	peak	
4		531.490	-73.06	14.69	-58.37	-13.00	-45.37	peak	
5		710.940	-71.33	17.67	-53.66	-13.00	-40.66	peak	
6	*	935.010	-74.00	21.90	-52.10	-13.00	-39.10	peak	

Test Mode:	LTE Band 26_TX CH26740_1.4M_Main Ant

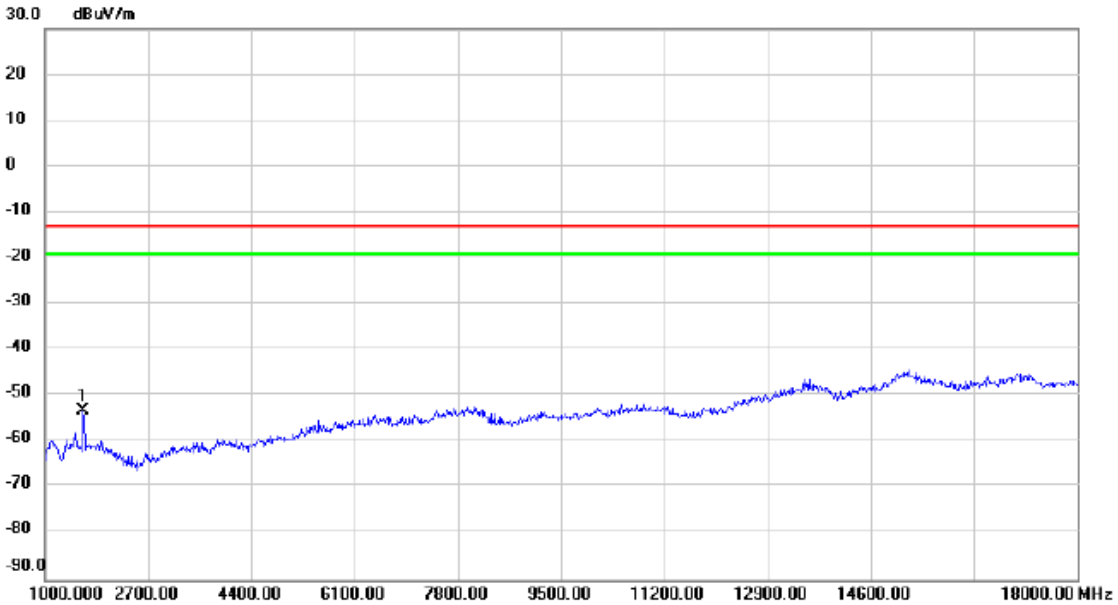
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	1918.000	-40.69	-8.73	-49.42	-13.00	-36.42	peak	

Test Mode:	LTE Band 26_TX CH26740_1.4M_Main Ant

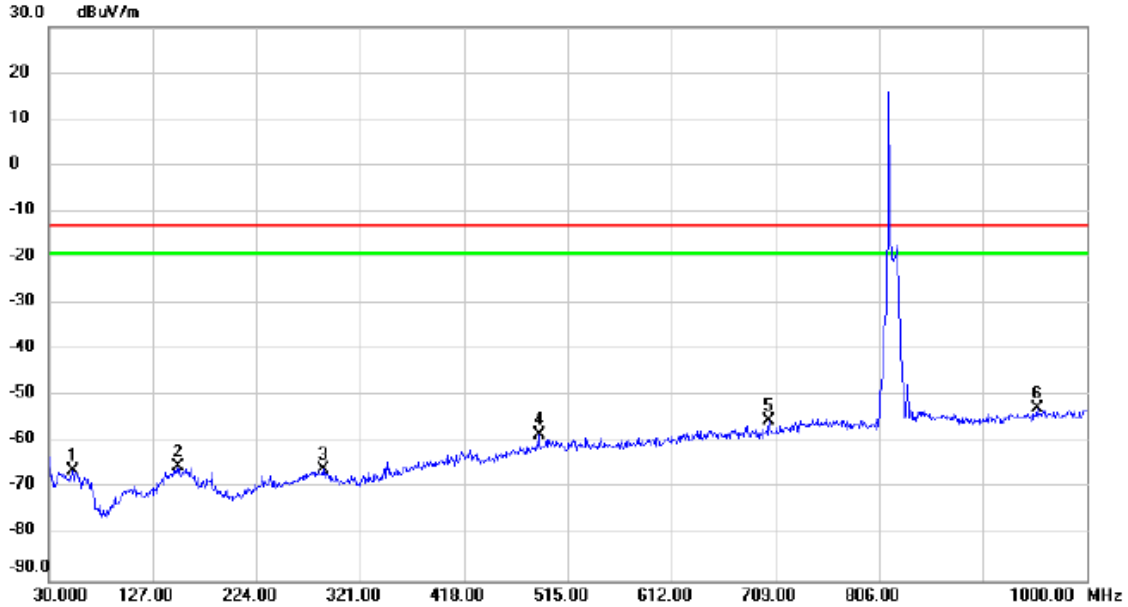
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	1629.000	-44.23	-9.08	-53.31	-13.00	-40.31	peak	

Test Mode:	LTE Band 26_TX CH26740_10M_Main Ant

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		52.310	-71.22	5.13	-66.09	-13.00	-53.09	peak	
2		151.250	-75.13	9.89	-65.24	-13.00	-52.24	peak	
3		286.080	-74.52	8.71	-65.81	-13.00	-52.81	peak	
4		487.840	-72.77	14.40	-58.37	-13.00	-45.37	peak	
5		703.180	-72.88	17.50	-55.38	-13.00	-42.38	peak	
6	*	953.440	-74.69	22.12	-52.57	-13.00	-39.57	peak	

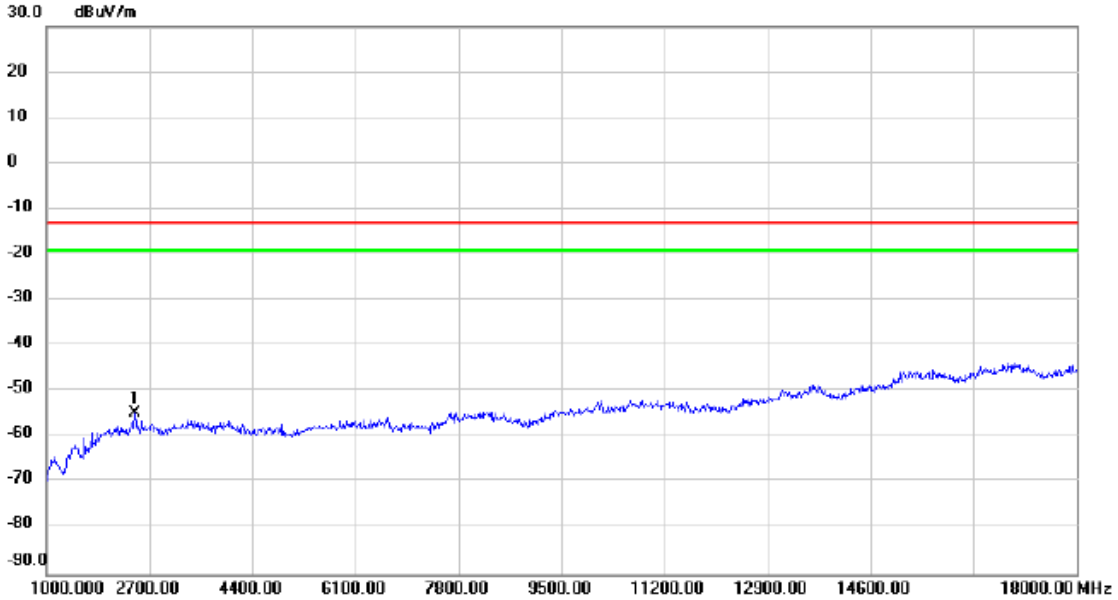
Test Mode:	LTE Band 26_TX CH26740_10M_Main Ant

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		151.250	-74.83	9.89	-64.94	-13.00	-51.94	peak	
2		232.730	-71.25	6.23	-65.02	-13.00	-52.02	peak	
3		418.970	-73.55	13.59	-59.96	-13.00	-46.96	peak	
4		527.610	-73.26	14.67	-58.59	-13.00	-45.59	peak	
5		717.730	-71.16	17.82	-53.34	-13.00	-40.34	peak	
6	*	968.960	-74.02	22.06	-51.96	-13.00	-38.96	peak	

Test Mode:	LTE Band 26_TX CH26740_10M_Main Ant

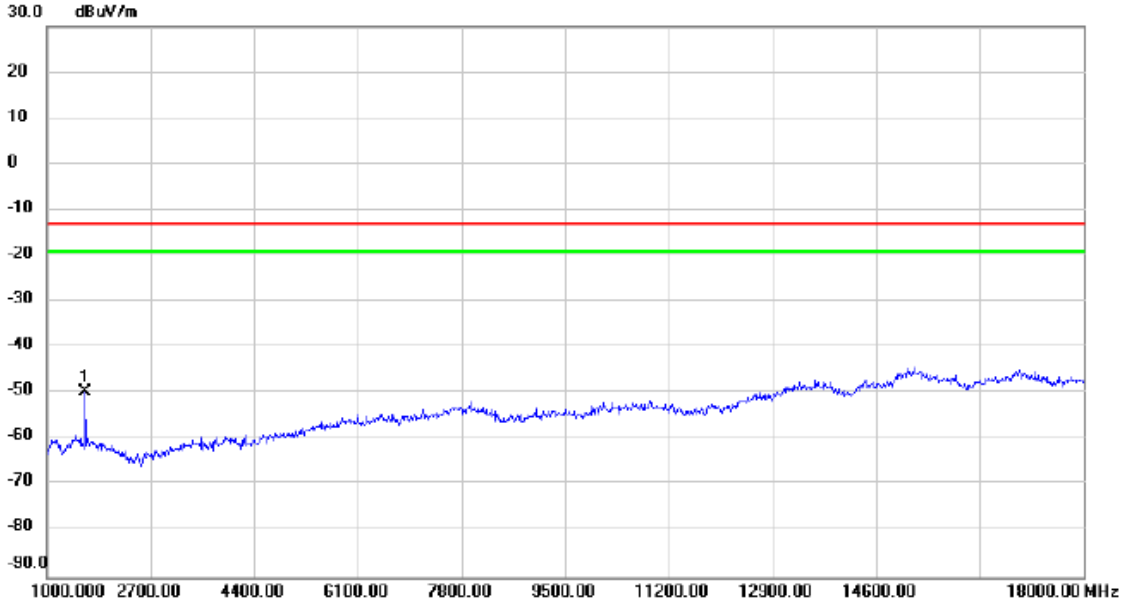
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2462.000	-49.08	-5.69	-54.77	-13.00	-41.77	peak	

Test Mode:	LTE Band 26_TX CH26740_10M_Main Ant

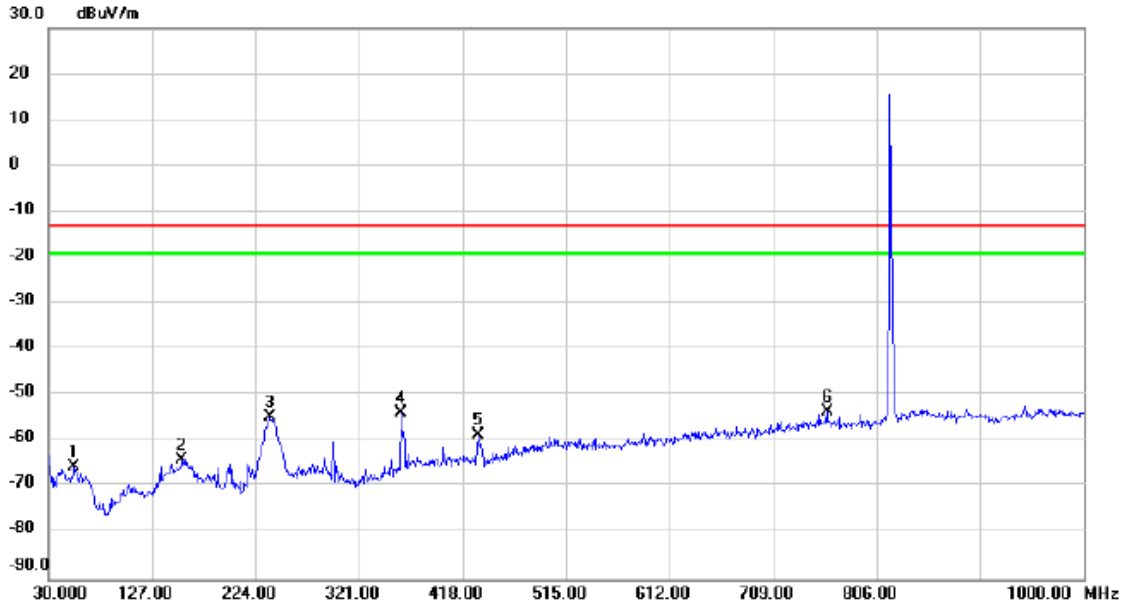
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	1629.000	-40.59	-9.08	-49.67	-13.00	-36.67	peak	

Test Mode:	LTE Band 26_TX CH26740_1.4M_Second Ant

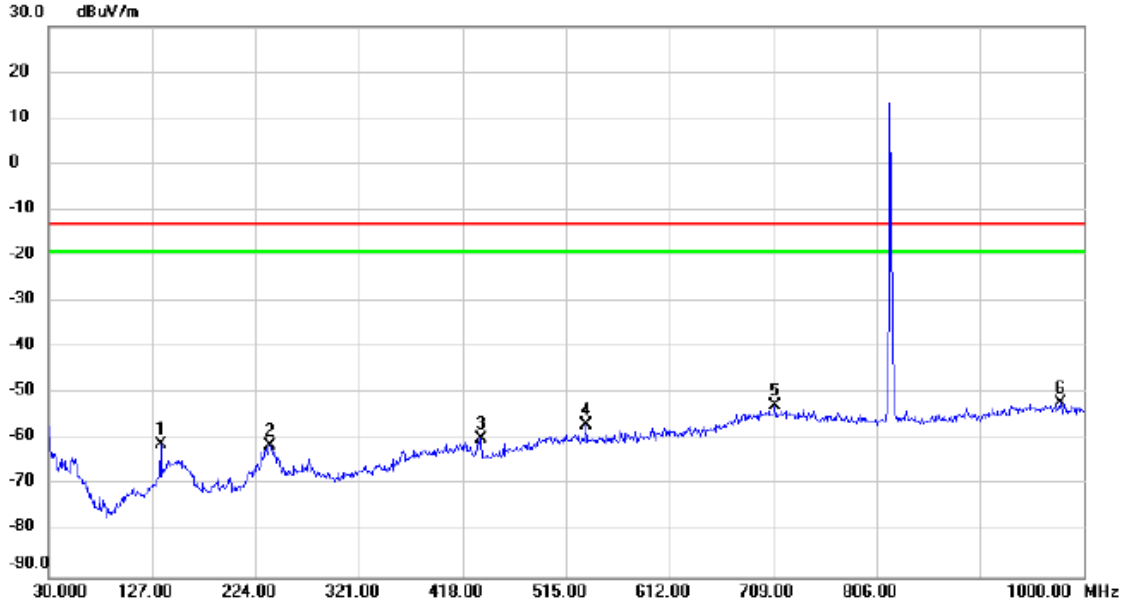
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		54.250	-70.41	4.76	-65.65	-13.00	-52.65	peak	
2		155.130	-73.53	9.60	-63.93	-13.00	-50.93	peak	
3		237.580	-61.39	6.49	-54.90	-13.00	-41.90	peak	
4		359.800	-65.11	11.38	-53.73	-13.00	-40.73	peak	
5		432.550	-72.39	13.76	-58.63	-13.00	-45.63	peak	
6	*	759.440	-72.24	18.82	-53.42	-13.00	-40.42	peak	

Test Mode:	LTE Band 26_TX CH26740_1.4M_Second Ant

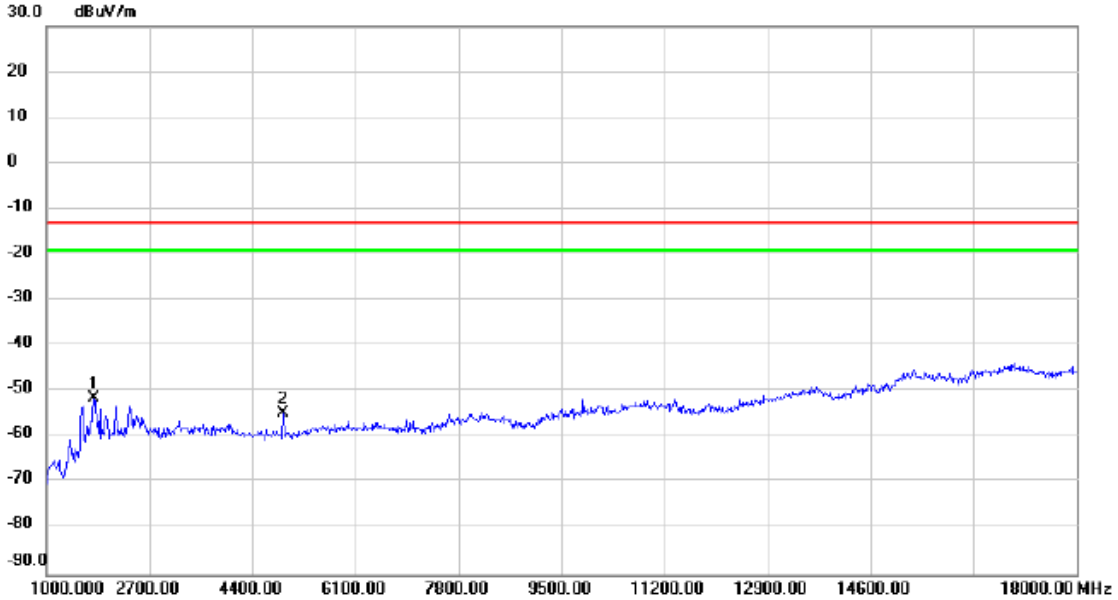
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		134.760	-69.93	8.95	-60.98	-13.00	-47.98	peak	
2		237.580	-67.94	6.49	-61.45	-13.00	-48.45	peak	
3		435.460	-73.65	13.80	-59.85	-13.00	-46.85	peak	
4		533.430	-71.46	14.70	-56.76	-13.00	-43.76	peak	
5		710.940	-70.47	17.67	-52.80	-13.00	-39.80	peak	
6	*	978.660	-74.15	22.02	-52.13	-13.00	-39.13	peak	

Test Mode:	LTE Band 26_TX CH26740_1.4M_Second Ant

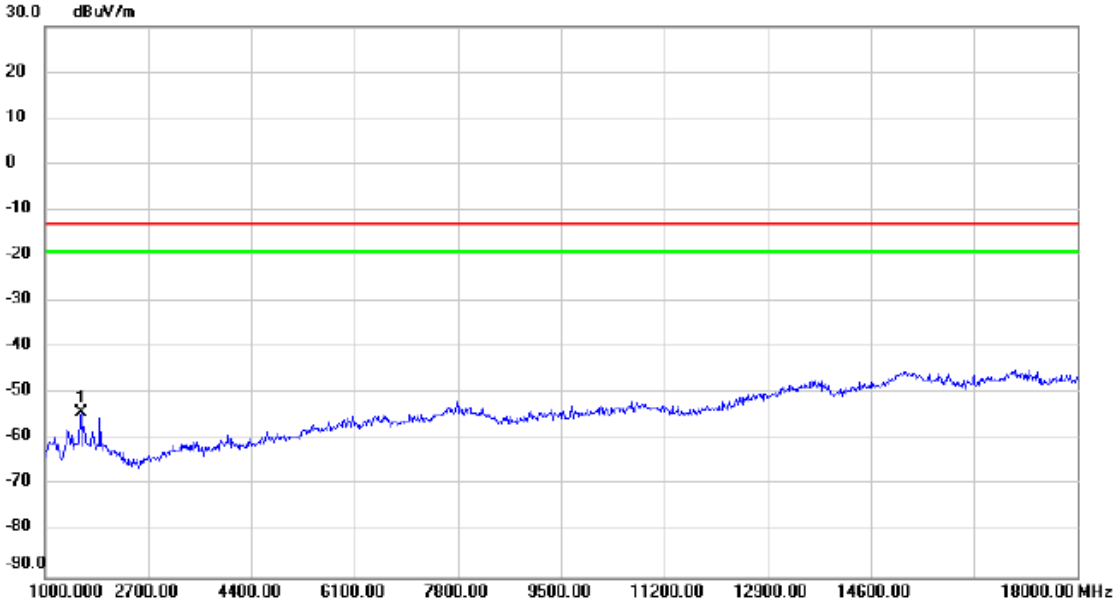
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	1782.000	-42.66	-8.90	-51.56	-13.00	-38.56	peak	
2		4910.000	-57.37	2.60	-54.77	-13.00	-41.77	peak	

Test Mode:	LTE Band 26_TX CH26740_1.4M_Second Ant

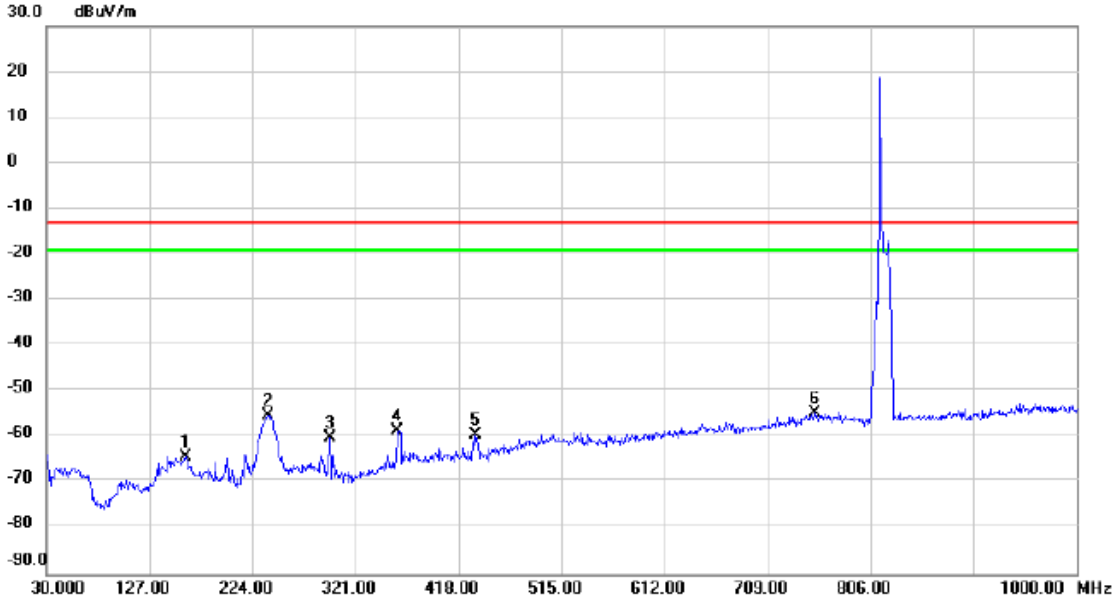
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	1595.000	-44.90	-9.12	-54.02	-13.00	-41.02	peak	

Test Mode:	LTE Band 26_TX CH26740_10M_Second Ant

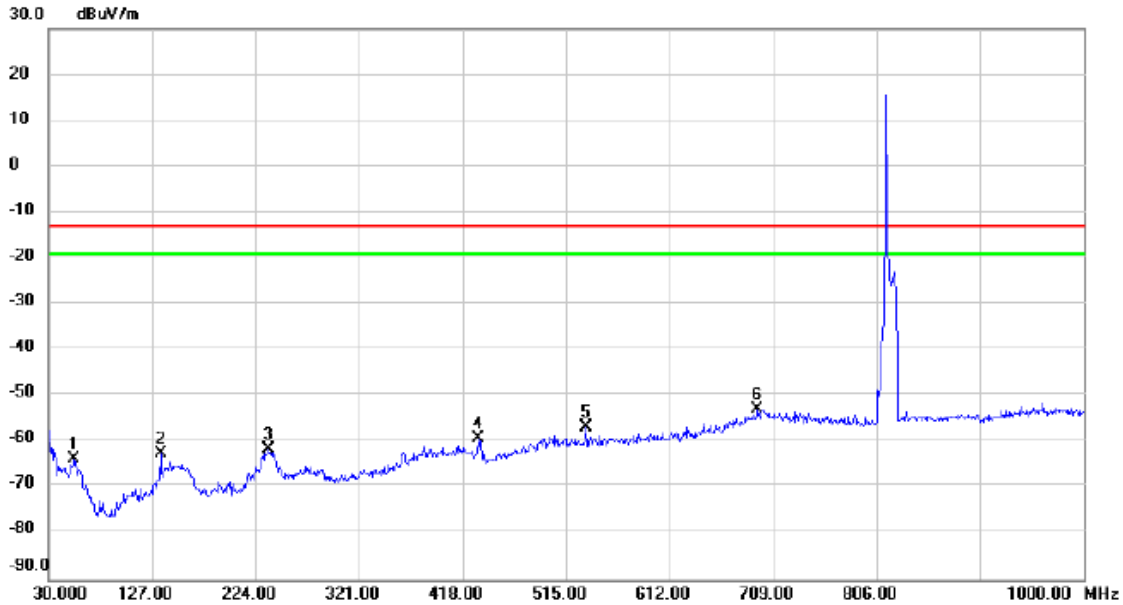
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		160.950	-73.40	9.19	-64.21	-13.00	-51.21	peak	
2		238.550	-61.98	6.54	-55.44	-13.00	-42.44	peak	
3		296.750	-69.01	8.87	-60.14	-13.00	-47.14	peak	
4		360.770	-70.05	11.43	-58.62	-13.00	-45.62	peak	
5		433.520	-73.30	13.77	-59.53	-13.00	-46.53	peak	
6	*	753.620	-73.48	18.64	-54.84	-13.00	-41.84	peak	

Test Mode:	LTE Band 26_TX CH26740_10M_Second Ant

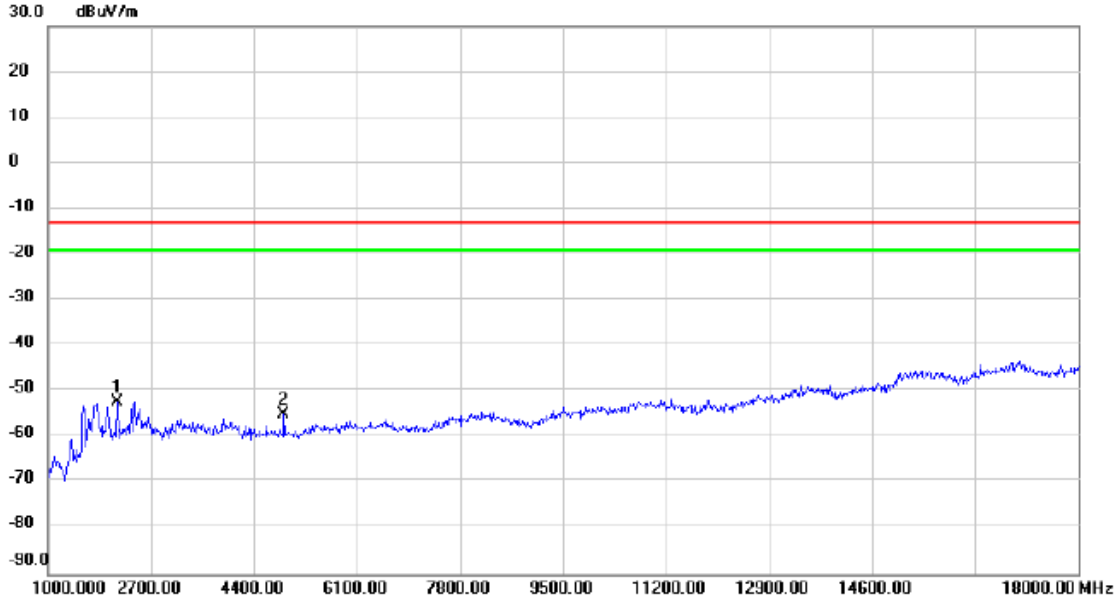
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		54.250	-68.52	4.76	-63.76	-13.00	-50.76	peak	
2		134.760	-71.47	8.95	-62.52	-13.00	-49.52	peak	
3		236.610	-68.19	6.44	-61.75	-13.00	-48.75	peak	
4		432.550	-73.04	13.76	-59.28	-13.00	-46.28	peak	
5		533.430	-71.57	14.70	-56.87	-13.00	-43.87	peak	
6	*	694.450	-70.42	17.36	-53.06	-13.00	-40.06	peak	

Test Mode:	LTE Band 26_TX CH26740_10M_Second Ant

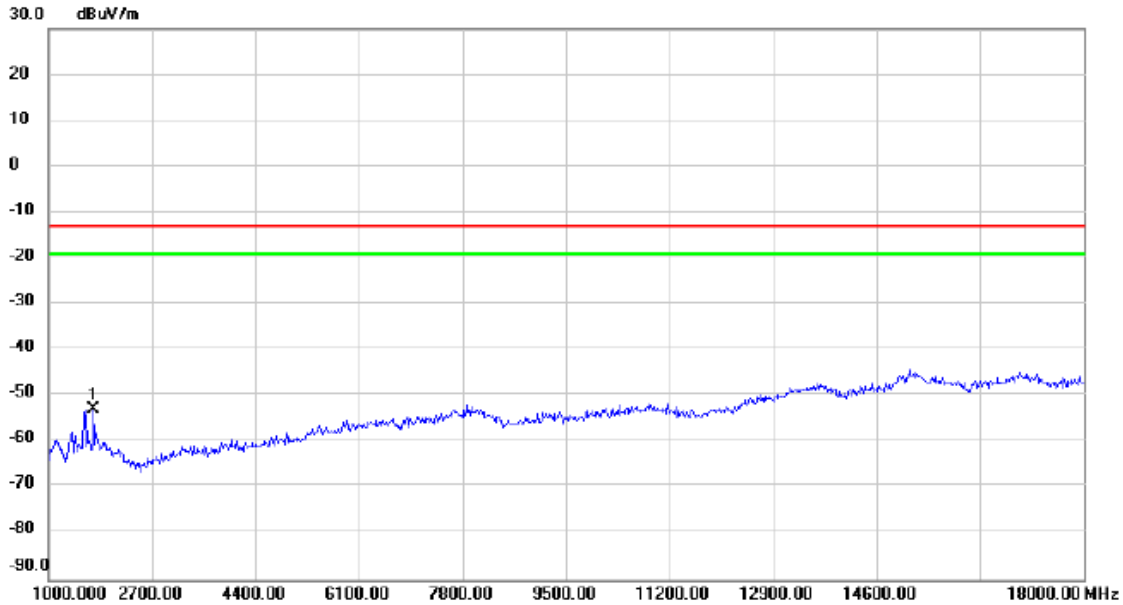
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2139.000	-44.45	-7.75	-52.20	-13.00	-39.20	peak	
2		4893.000	-57.55	2.55	-55.00	-13.00	-42.00	peak	

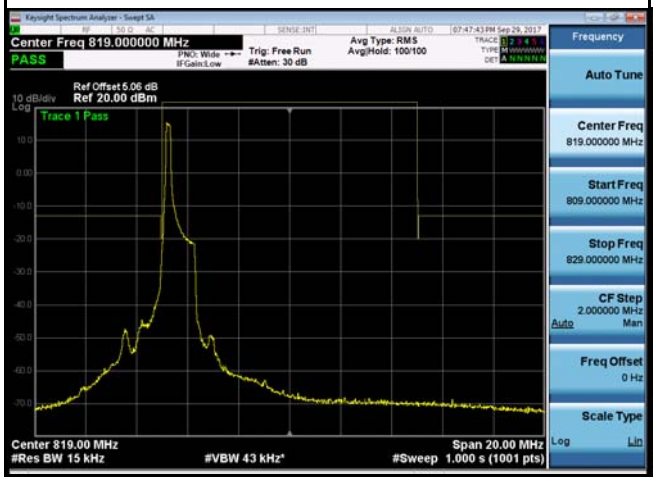
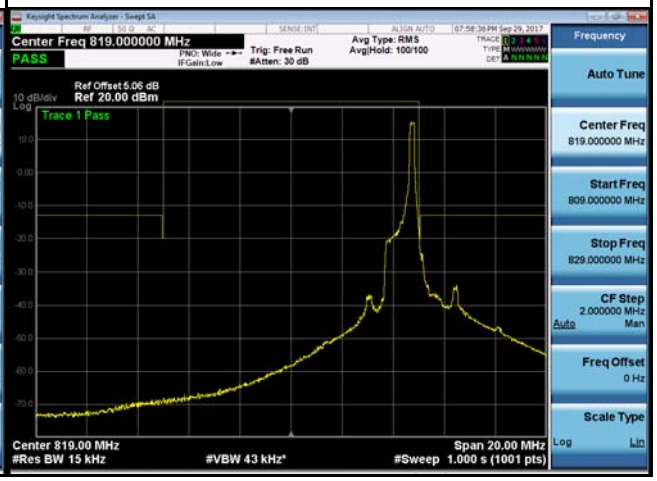
Test Mode:	LTE Band 26_TX CH26740_10M_Second Ant

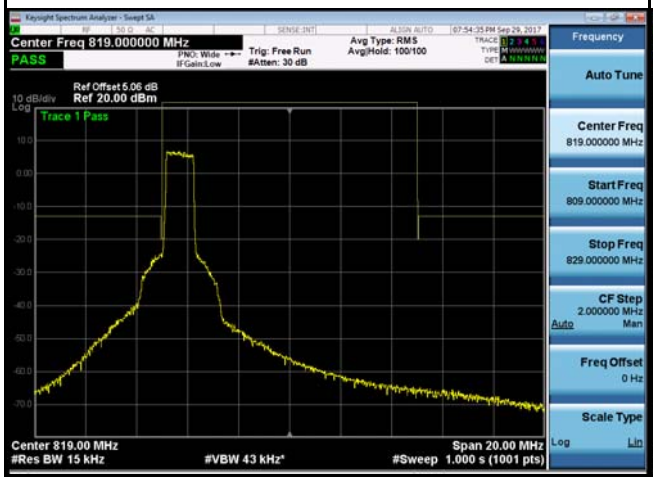
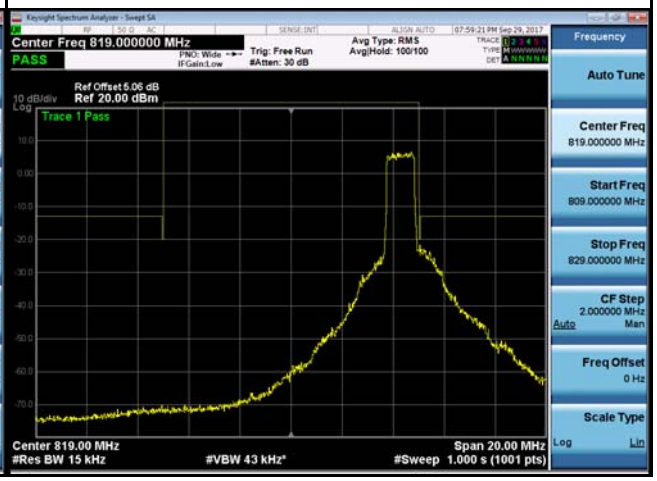
Horizontal

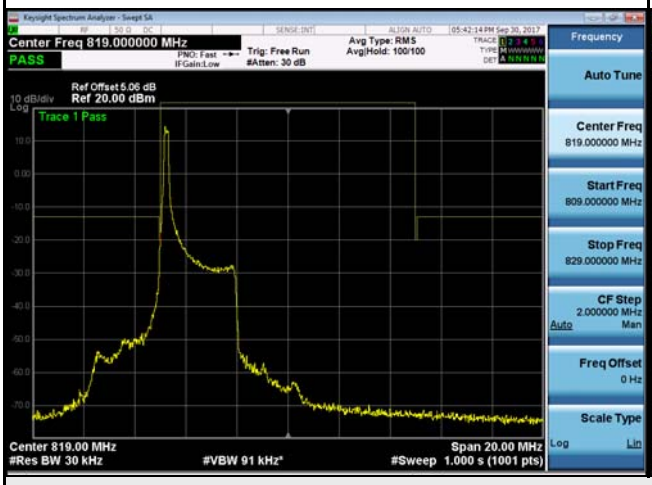
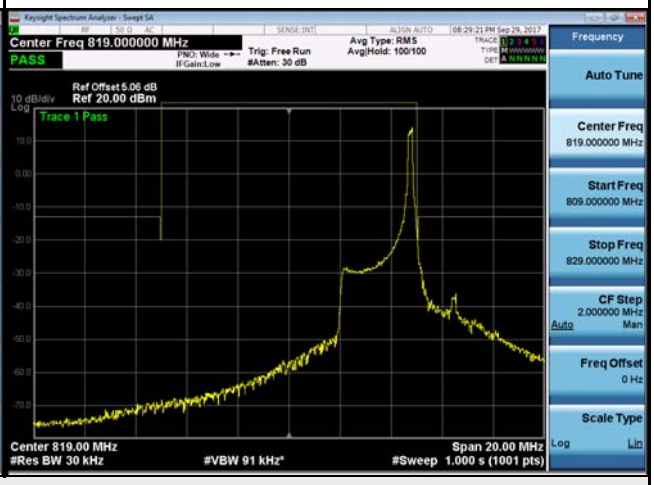


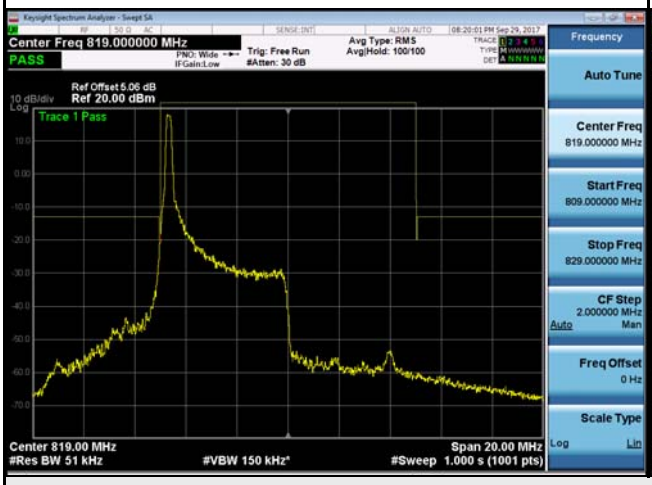
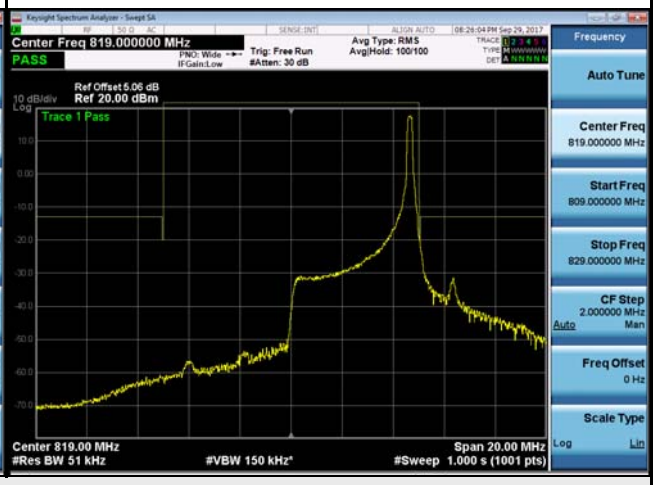
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	1731.000	-43.91	-8.96	-52.87	-13.00	-39.87	peak	

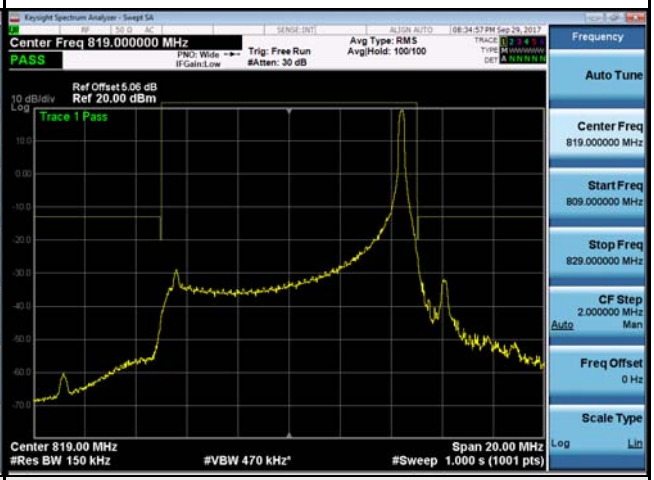
APPENDIX E - EMISSION MASK

LTE Band 26_1.4M			
1RB0		1RB5	
Channel	26697	Channel	26783
			

6RB0			
Channel	26697	Channel	26783
			

LTE Band 26_3M			
1RB0		1RB14	
Channel	26705	Channel	26775
			
15RB0			
Channel	26705	Channel	26775

LTE Band 26_5M			
1RB0		1RB24	
Channel	26715	Channel	26765
			
25RB0			
Channel	26715	Channel	26765

LTE Band 26_10M			
1RB0		1RB50	
Channel	26740	Channel	26740
			
50RB0		-	
Channel	26740	-	-
		-	

APPENDIX F - FREQUENCY STABILITY

Test Mode:	LTE Band 26_CH26740_1.4M

Temperature vs. Frequency Stabiility

Temperature(℃)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.21	0.002698413	2.5
-20	-3.34	0.004078144	2.5
-10	1.89	0.002307692	2.5
0	-2.68	0.003272283	2.5
10	-2.48	0.003028083	2.5
20	3.67	0.004481074	2.5
30	4.01	0.004896215	2.5
40	-2.94	0.003589744	2.5
50	2.16	0.002637363	2.5
Max. Deviation (ppm)	**4.01**	**0.004896215**	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50	2.15	0.002625153	2.5
3.82	-1.72	0.002100122	2.5
4.35	3.11	0.003797314	2.5
Max. Deviation (ppm)	**3.11**	**0.003797314**	2.5

Test Mode:	LTE Band 26_CH26740_3M

Temperature vs. Frequency Stabiility

Temperature(℃)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-3.16	0.003858364	2.5
-20	-2.84	0.003467643	2.5
-10	3.67	0.004481074	2.5
0	2.94	0.003589744	2.5
10	3.07	0.003748474	2.5
20	2.48	0.003028083	2.5
30	-1.96	0.002393162	2.5
40	-1.88	0.002295482	2.5
50	2.30	0.002808303	2.5
Max. Deviation (ppm)	**3.67**	**0.004481074**	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50	2.49	0.003040293	2.5
3.82	3.61	0.004407814	2.5
4.35	2.20	0.002686203	2.5
Max. Deviation (ppm)	**3.61**	**0.004407814**	2.5

Test Mode:	LTE Band 26_CH26740_5M

Temperature vs. Frequency Stabiility

Temperature(℃)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	4.12	0.005030525	2.5
-20	-3.06	0.003736264	2.5
-10	2.59	0.003162393	2.5
0	1.82	0.002222222	2.5
10	-1.77	0.002161172	2.5
20	2.63	0.003211233	2.5
30	-3.33	0.004065934	2.5
40	2.55	0.003113553	2.5
50	2.91	0.003553114	2.5
Max. Deviation (ppm)	**4.12**	**0.005030525**	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50	1.91	0.002332112	2.5
3.82	-2.03	0.002478632	2.5
4.35	2.35	0.002869353	2.5
Max. Deviation (ppm)	**2.35**	**0.002869353**	2.5

Test Mode:	LTE Band 26_CH26740_10M

Temperature vs. Frequency Stabiility

Temperature(℃)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	3.04	0.003711844	2.5
-20	2.19	0.002673993	2.5
-10	-2.28	0.002783883	2.5
0	-2.64	0.003223443	2.5
10	3.47	0.004236874	2.5
20	4.08	0.004981685	2.5
30	1.96	0.002393162	2.5
40	-3.67	0.004481074	2.5
50	-3.37	0.004114774	2.5
Max. Deviation (ppm)	**4.08**	**0.004981685**	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50	-3.10	0.003785104	2.5
3.82	-2.69	0.003284493	2.5
4.35	2.42	0.002954823	2.5
Max. Deviation (ppm)	**3.10**	**0.003785104**	2.5