

FCC Radio Test Report

FCC ID: 2A0UD-TP00098A

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

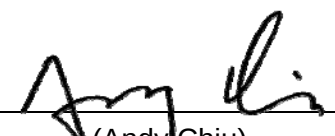
Project No. : 1711C206A
Equipment : Tablet PC
Test Model : TP00098A
Series Model : N/A
Applicant : Shenzhen Bitland Information Technology Co.,Ltd
Address : 6F, #7 Building, XiLi Tongfuyu Industrial Town,
Nanshan District, Shenzhen Guangdong 518055
China

Date of Receipt : Nov. 24, 2017
Date of Test : Nov. 24, 2017 ~ Jan. 08, 2018
Issued Date : Jan. 09, 2018
Tested by : BTL Inc.

Technical Engineer :


(Kenji Lin)

Authorized Signatory :


(Andy Chiu)

B T L I N C .

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Declaration

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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.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-4-1711C206A	Original Issue.	Jan. 09, 2018

1. CERTIFICATION

Equipment : Tablet PC
Brand Name : Lenovo
Test Model : TP00098A
Series Model : N/A
Applicant : Shenzhen Bitland Information Technology Co.,Ltd
Manufacturer : Lenovo PC HK Limited
Address : 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong
Factory : Hefei Bitland Information Technology Co.Ltd.
Address : No.4088 JINXIU AVENUE, ECONOMIC&TECHNOLOGY DEVELOPMENT
AREA, HEFEI, CHINA
Date of Test : Nov. 24, 2017 ~ Jan. 08, 2018
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 v03

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-4-1711C206A) 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

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

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor) $k=1.96$ or $k=2$ (which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)). Measurement Uncertainty for a Level of Confidence of 95 %, $U=2 \times U_c(y)$.

The BTL measurement uncertainty as below table:

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	Tablet PC			
Brand Name	Lenovo			
Model Name	TP00098A			
Model Difference	N/A			
Modulation Type	UL: QPSK,16QAM DL: 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	22.73	dBm
		16QAM	22.01	dBm
	Bandwidth: 3MHz	QPSK	22.68	dBm
		16QAM	21.71	dBm
	Bandwidth: 5MHz	QPSK	22.73	dBm
		16QAM	22.01	dBm
	Bandwidth: 10MHz	QPSK	22.58	dBm
		16QAM	21.75	dBm
Antenna Type	Fixed Internal Antenna			
Hardware Version	TBD			
Software Version	TBD			
IMEI No.	014583000483973			

Power Source	#1 DC voltage supplied from AC/DC adapter. 1) Manufacturer / Model: Liteon / ADLX45YLC2A (2pin) 2) Manufacturer / Model: Liteon / ADLX45YLC3A (3pin) 3) Manufacturer / Model: Liteon / ADLX65YLC3A (3pin) 4) Manufacturer / Model: Chicony / ADLX45YCC2A (2pin) 5) Manufacturer / Model: Chicony / ADLX45YCC3A (3pin) 6) Manufacturer / Model: Chicony / ADLX65YCC3A (3pin) #2 Rechargeable Li-ion Battery supplied. 1) Manufacturer / Model: Simplo / L17M2P51 2) Manufacturer / Model: Simplo / L17M2P52 3) Manufacturer / Model: Celxpert / L17C2P51
Power Rating	#1 For adapter: 1) / 2) / 4) / 5): I/P: 100-240V~1.3A 50-60Hz O/P: 20V --- 2.25A/15V --- 3A/9V --- 2A/5V --- 2A Max 45W 3) / 6): I/P: 100-240V~1.8A 50-60Hz O/P: 20V --- 3.25A/15V --- 3A/9V --- 2A/5V --- 2A Max 65W #2 For battery: DC 7.68V, 5080mAh

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. Table for Filed Antenna:

Ant. Part Number (main & aux parts)	Type	Antenna Mfr.	Antenna Gain(dBi)
			LTE Band 26
N19-0351-R0A N19-0352-R0A	Monopole	South Star	1.72 -0.26

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

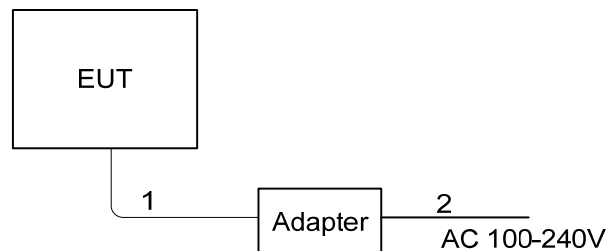
Note:

- 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 7.68V
Conducted Output Power	25°C, 65%RH	DC 7.68V
Occupied Bandwidth	25°C, 65%RH	DC 7.68V
Conducted Spurious Emission	25°C, 65%RH	DC 7.68V
Radiated Spurious Emission	25°C, 60%RH	AC 120V/60Hz
Emission Mask	25°C, 65%RH	DC 7.68V
Frequency Stability	Nornal and Extreme	Nornal and Extreme

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	1.6m	DC Cable
2	NO	NO	1.0m	AC 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

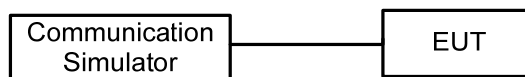
ERP power=EIPR power-2.15dBi.

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

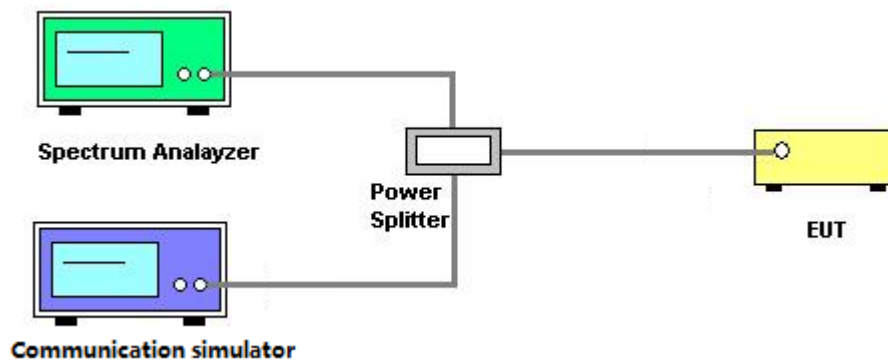
Please refer to the Appendix A.

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

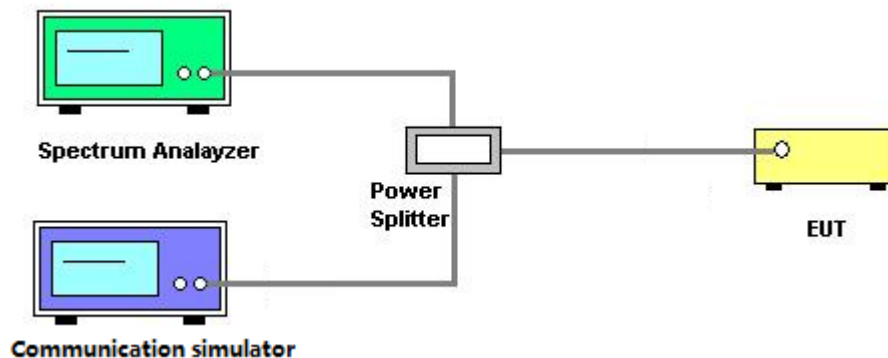
4.3.1 LIMIT

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ 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 $RBW \geq 1\%$ 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 $43 + 10 \log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10 \log(P)](dB)$
 $= [30 + 10 \log(P)](dBm) - [43 + 10 \log(P)](dB)$
 $= -13dBm$

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

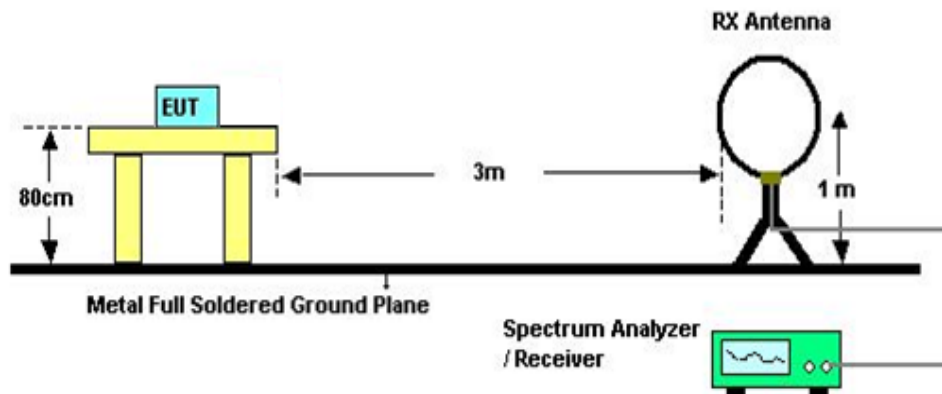
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10} (P)$ dB. The limit of emission is equal to -13dBm.

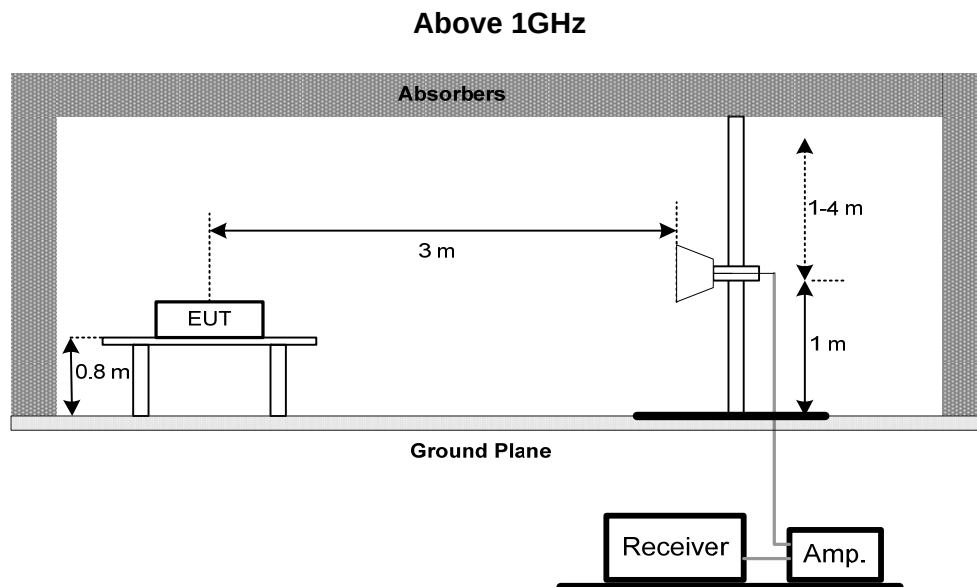
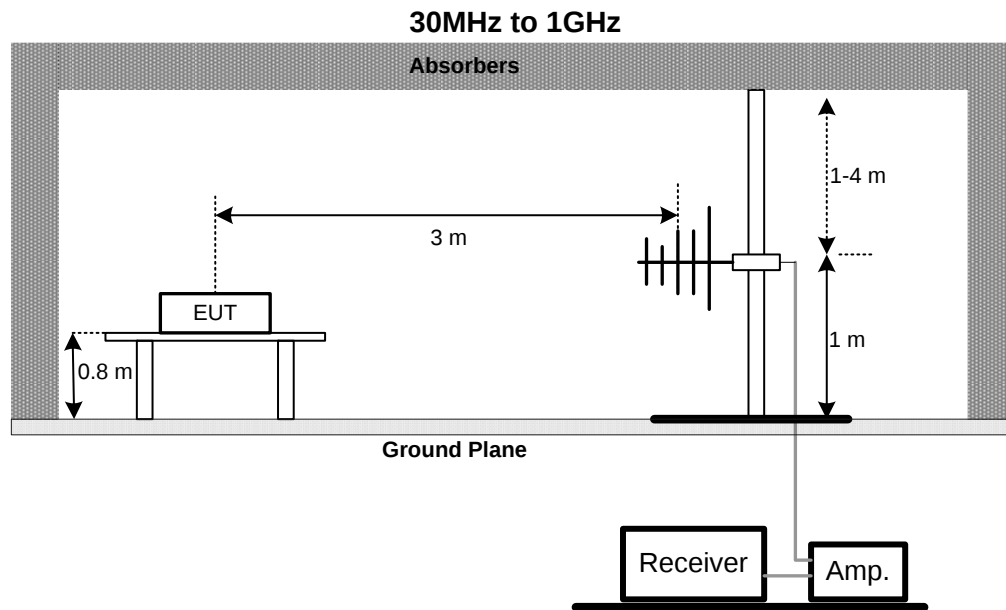
4.4.2 TEST PROCEDURES

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 30MHz





4.4.4 TESTDEVIATION

No deviation

4.4.5 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Appendix D.

4.4.6 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the Appendix E.

4.4.7 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the Appendix F.

4.5 BAND EDGE /EMISSION MASK MEASUREMENT

4.5.1 LIMIT

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691.(a)

a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

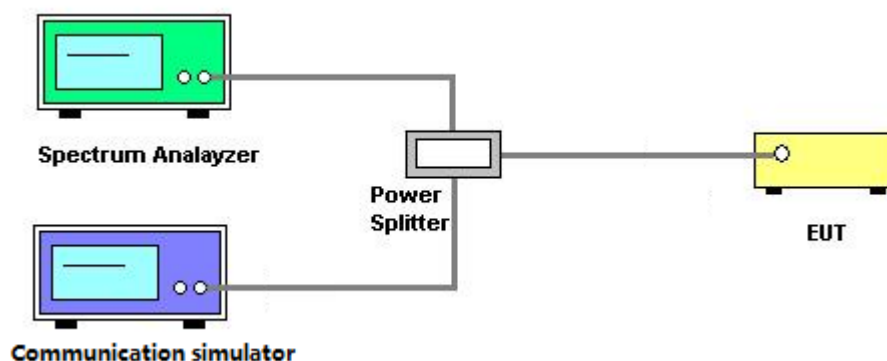
(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the 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.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ 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 37.5 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 G.

4.6 FREQUENCY STABILITY MEASUREMENT

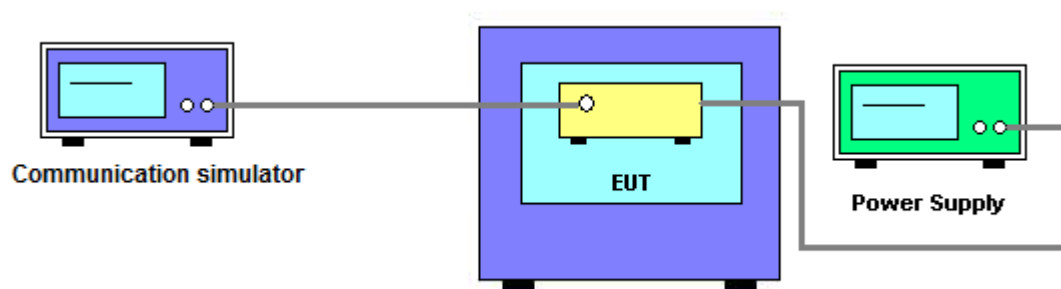
4.6.1 LIMIT

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 $\pm 0.5^{\circ}\text{C}$ 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 H.

5. IST 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. 28, 2018
3	Preamplifier	EMCI	EMC2654045	980030	Feb. 14, 2018
4	Test Cable	EMCI	EMC104-SM-S M-8000	8m	Jan. 03, 2019
5	Test Cable	EMCI	EMC104-SM-S M-800	150207	Jan. 03, 2019
6	Test Cable	EMCI	EEMC104-SM-S M-3000	151205	Jan. 03, 2019
7	MXE EMI Receiver	Agilent	N9038A	MY55420127	Jan. 08, 2019
8	Signal Analyzer	Agilent	N9010A	MY52220990	Feb. 22, 2018
9	Loop Ant	EMCO	6502	42960	Nov. 23, 2018
10	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	Feb. 28, 2018
11	Horn Ant	Schwarzbeck	BBHA 9170	187	Dec. 06, 2018
12	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-548	Jan. 15, 2019
13	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0623	Jan. 15, 2019

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 Size	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	23.16	22.86	22.85
		1	2	23.14	22.64	22.76
		1	5	22.94	22.81	22.86
		3	0	22.83	22.54	22.64
		3	1	22.95	22.65	22.73
		3	2	22.87	22.64	22.75
		6	0	21.95	21.55	21.63
	16QAM	1	0	22.14	21.81	22.09
		1	2	22.44	21.95	22.15
		1	5	22.09	21.94	22.05
		3	0	22.17	21.64	21.83
		3	1	22.19	21.62	21.87
		3	2	22.18	21.55	21.89
		6	0	21.21	20.58	20.56
Bandwith	Modulation	RB Size	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	23.11	22.91	22.83
		1	7	23.01	22.89	22.70
		1	14	22.93	22.66	22.70
		8	0	21.99	21.68	21.67
		8	4	22.01	21.74	21.69
		8	7	21.91	21.49	21.65
		15	0	21.89	21.47	21.68
	16QAM	1	0	22.14	22.11	21.82
		1	7	21.98	22.01	21.90
		1	14	21.89	22.05	21.71
		8	0	21.10	20.68	20.70
		8	4	21.10	20.66	20.73
		8	7	21.03	20.54	20.74
		15	0	20.99	20.63	20.65

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

Conducted Power_Band 26						
Bandwith	Modulation	RB Size	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	23.16	22.72	22.62
		1	13	23.06	22.69	22.87
		1	24	22.92	22.39	22.73
		12	0	22.00	21.44	21.65
		12	6	21.95	21.51	21.68
		12	11	21.87	21.35	21.63
		25	0	21.89	21.49	21.61
	16QAM	1	0	22.44	22.20	21.76
		1	13	22.21	22.26	21.94
		1	24	22.00	22.10	21.81
		12	0	21.15	20.58	20.70
		12	6	21.06	20.65	20.75
		12	11	20.95	20.53	20.72
		25	0	20.90	20.55	20.61

Bandwith	Modulation	RB Size	RB Offset	Mid CH
				26740 CH
				819 MHz
10M	QPSK	1	0	23.01
		1	25	22.81
		1	49	22.53
		25	0	21.57
		25	13	21.56
		25	25	21.40
		50	0	21.59
	16QAM	1	0	22.18
		1	25	21.98
		1	49	21.73
		25	0	20.63
		25	13	20.66
		25	25	20.43
		50	0	20.50

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

ERP Power_Band 26						
Bandwidth	Modulation	RB Size	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	22.73	22.43	22.42
		1	2	22.71	22.21	22.33
		1	5	22.51	22.38	22.43
		3	0	22.40	22.11	22.21
		3	1	22.52	22.22	22.30
		3	2	22.44	22.21	22.32
		6	0	21.52	21.12	21.20
	16QAM	1	0	21.71	21.38	21.66
		1	2	22.01	21.52	21.72
		1	5	21.66	21.51	21.62
		3	0	21.74	21.21	21.40
		3	1	21.76	21.19	21.44
		3	2	21.75	21.12	21.46
		6	0	20.78	20.15	20.13
Bandwidth	Modulation	RB Size	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	22.68	22.48	22.40
		1	7	22.58	22.46	22.27
		1	14	22.50	22.23	22.27
		8	0	21.56	21.25	21.24
		8	4	21.58	21.31	21.26
		8	7	21.48	21.06	21.22
		15	0	21.46	21.04	21.25
	16QAM	1	0	21.71	21.68	21.39
		1	7	21.55	21.58	21.47
		1	14	21.46	21.62	21.28
		8	0	20.67	20.25	20.27
		8	4	20.67	20.23	20.30
		8	7	20.60	20.11	20.31
		15	0	20.56	20.20	20.22

ERP Power_Band 26						
Bandwith	Modulation	RB Size	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	22.73	22.29	22.19
		1	13	22.63	22.26	22.44
		1	24	22.49	21.96	22.30
		12	0	21.57	21.01	21.22
		12	6	21.52	21.08	21.25
		12	11	21.44	20.92	21.20
		25	0	21.46	21.06	21.18
	16QAM	1	0	22.01	21.77	21.33
		1	13	21.78	21.83	21.51
		1	24	21.57	21.67	21.38
		12	0	20.72	20.15	20.27
		12	6	20.63	20.22	20.32
		12	11	20.52	20.10	20.29
		25	0	20.47	20.12	20.18

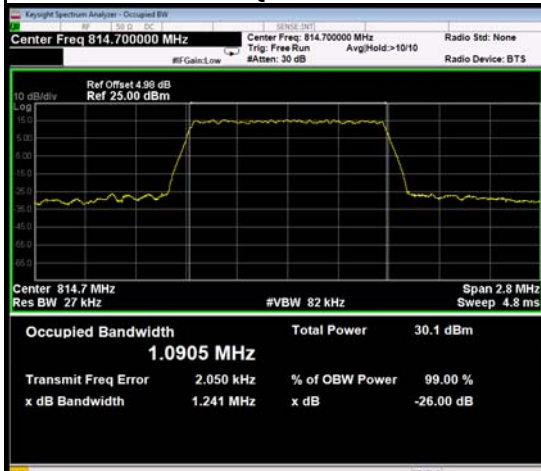
Bandwith	Modulation	RB Size	RB Offset	Mid CH
				26740 CH
				819 MHz
10M	QPSK	1	0	22.58
		1	25	22.38
		1	49	22.10
		25	0	21.14
		25	13	21.13
		25	25	20.97
		50	0	21.16
	16QAM	1	0	21.75
		1	25	21.55
		1	49	21.30
		25	0	20.20
		25	13	20.23
		25	25	20.00
		50	0	20.07

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	1.0905	26697	814.7	1.0866
26740	819	1.0964	26740	819	1.0902
26783	823.3	1.0887	26783	823.3	1.1893
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26697	814.7	1.241	26697	814.7	1.225
26740	819	1.227	26740	819	1.233
26783	823.3	1.230	26783	823.3	1.238

Spectrum Plot

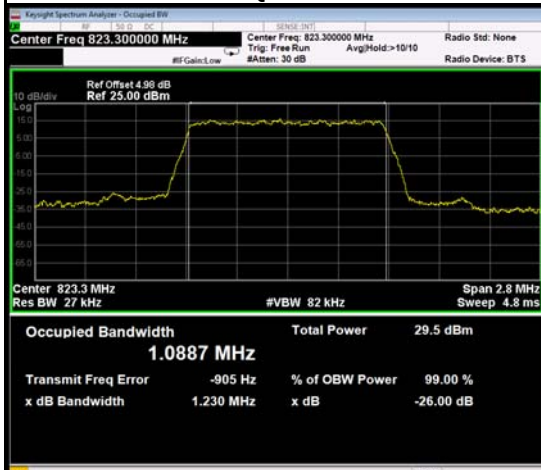
QPSK-26697



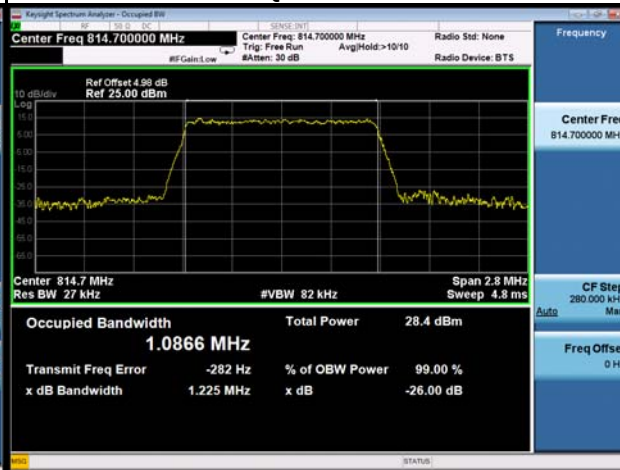
QPSK-26740



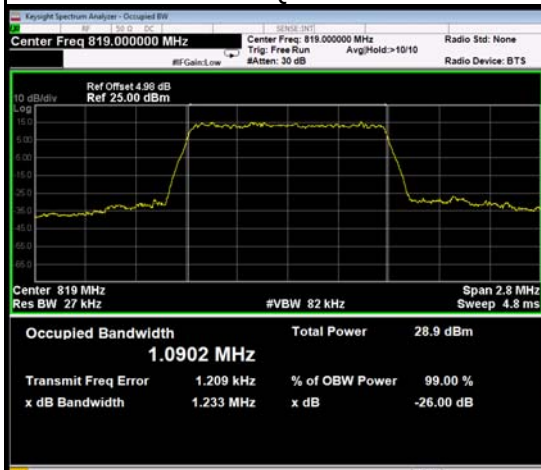
QPSK-26783



16QAM-26697



16QAM-26740



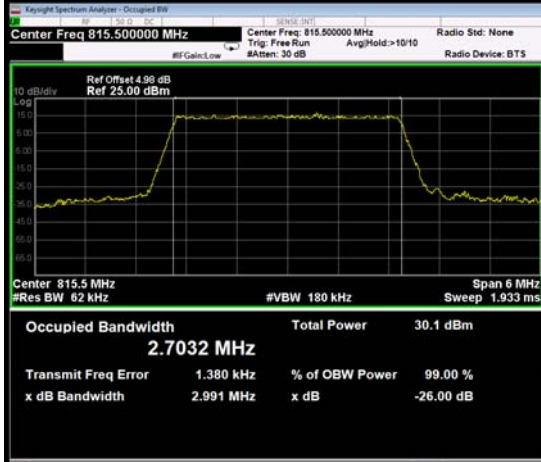
16QAM-26783



LTE Band 26_3M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
26705	815.5	2.7032	26705	815.5	2.7153
26740	819	2.7148	26740	819	2.7080
26775	822.5	2.7085	26775	822.5	2.6995
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26705	815.5	2.991	26705	815.5	3.017
26740	819	3.002	26740	819	3.024
26775	822.5	3.016	26775	822.5	2.993

Spectrum Plot

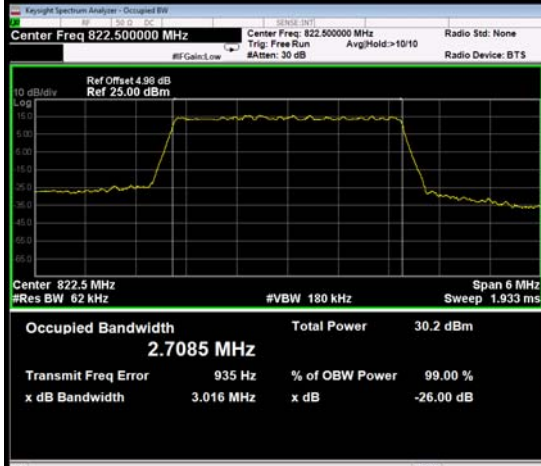
QPSK-26705



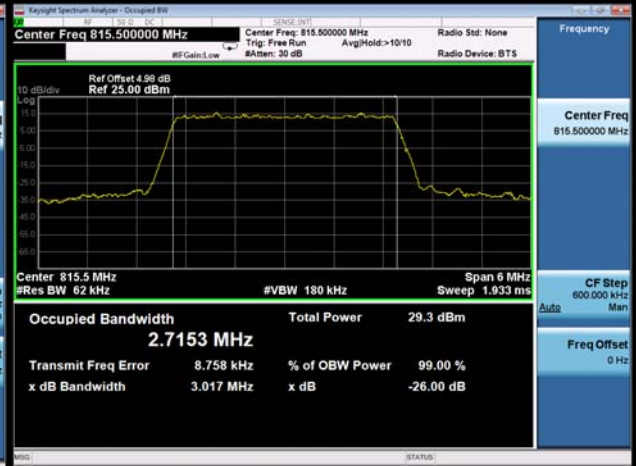
QPSK-26740



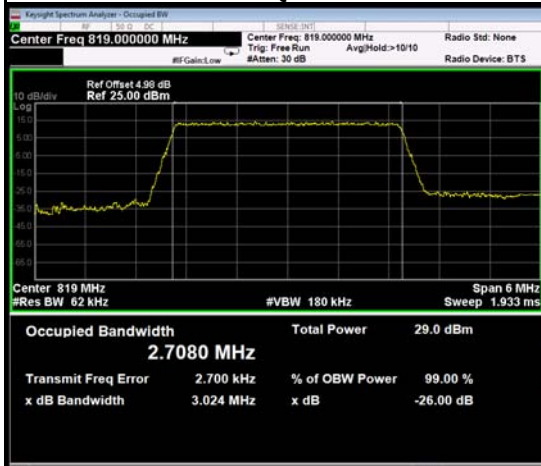
QPSK-26775



16QAM-26705



16QAM-26740



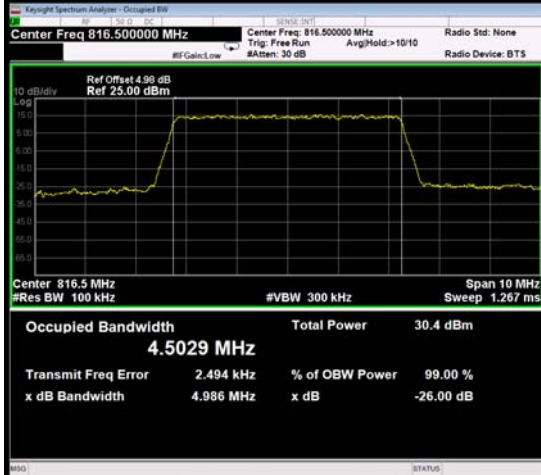
16QAM-26775



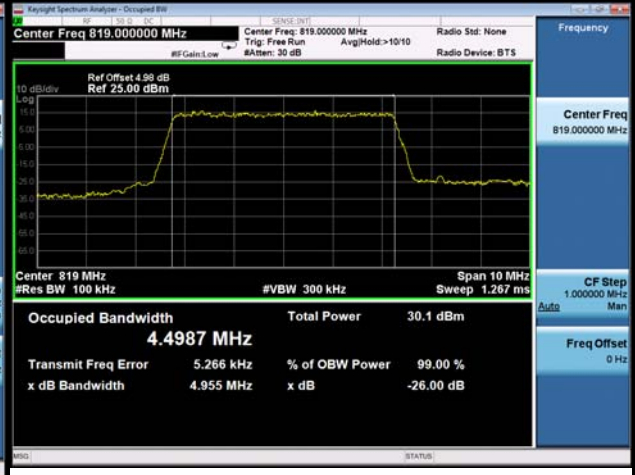
LTE Band 26_5M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
26715	816.5	4.5029	26715	816.5	4.5220
26740	819	4.4987	26740	819	4.5162
26765	821.5	4.5147	26765	821.5	4.5025
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26715	816.5	4.986	26715	816.5	4.991
26740	819	4.955	26740	819	4.978
26765	821.5	4.973	26765	821.5	4.948

Spectrum Plot

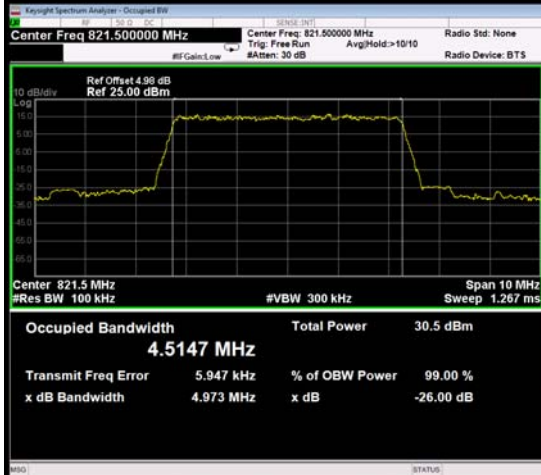
QPSK-26715



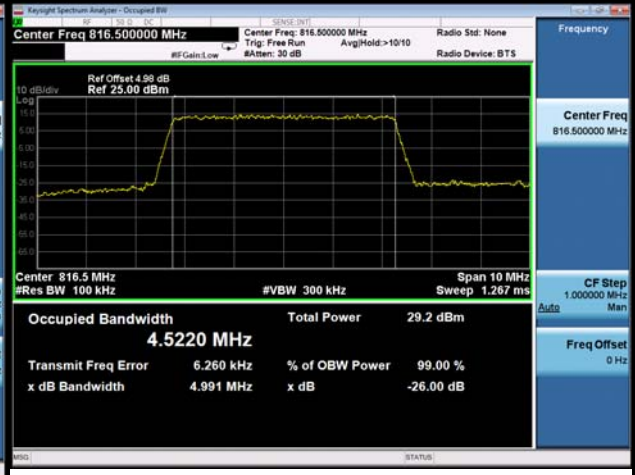
QPSK-26740



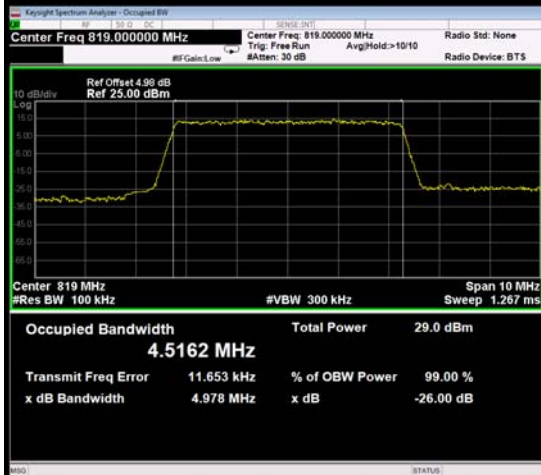
QPSK-26765



16QAM-26715



16QAM-26740



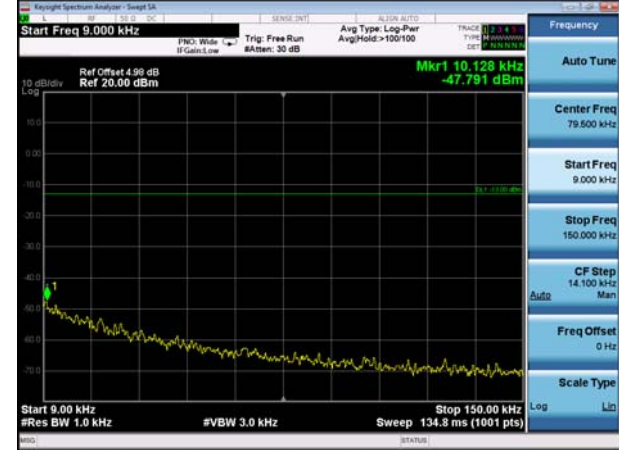
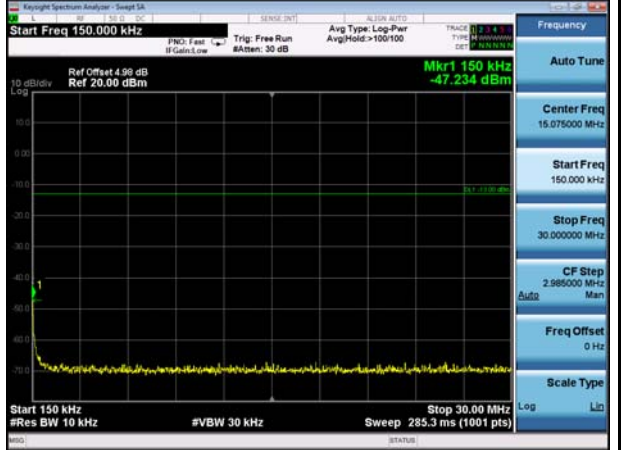
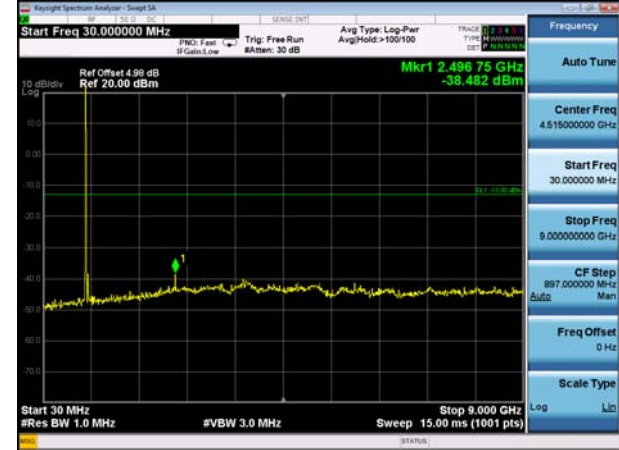
16QAM-26765

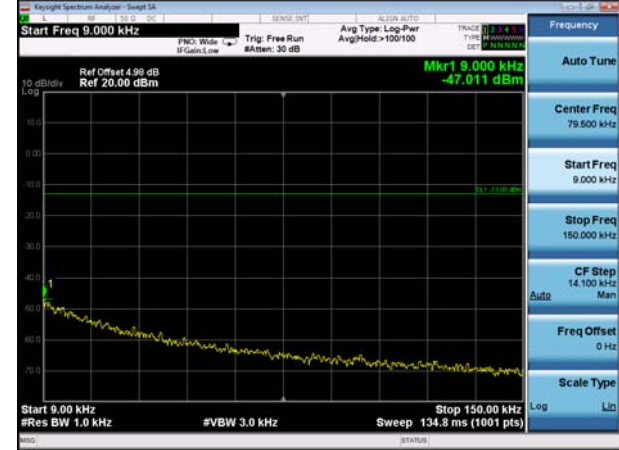
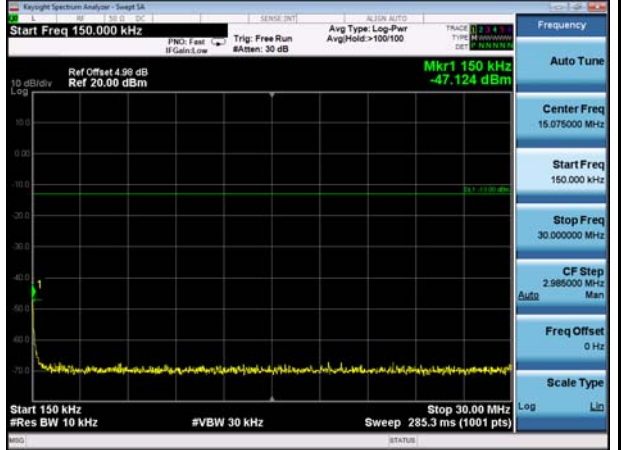
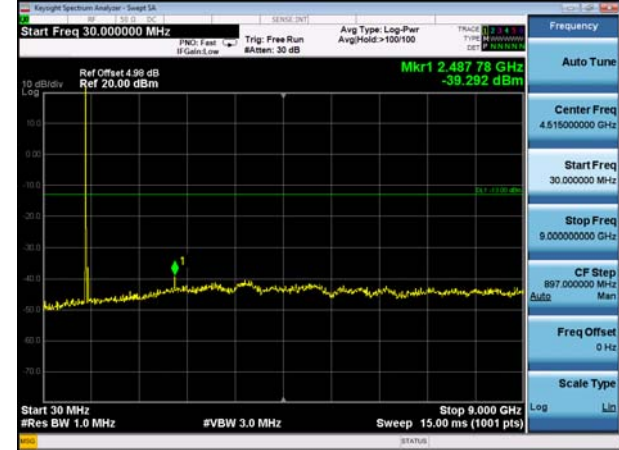


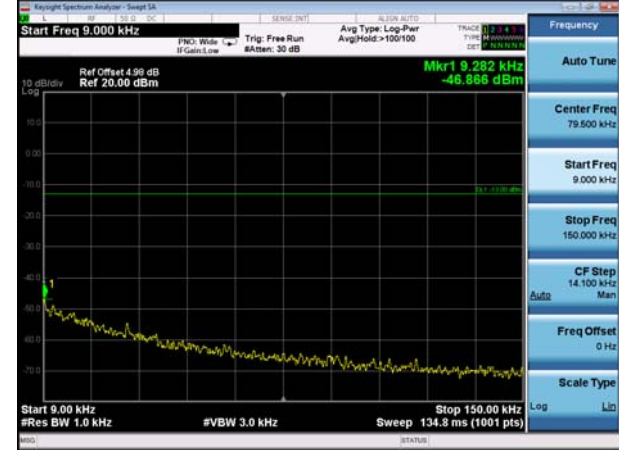
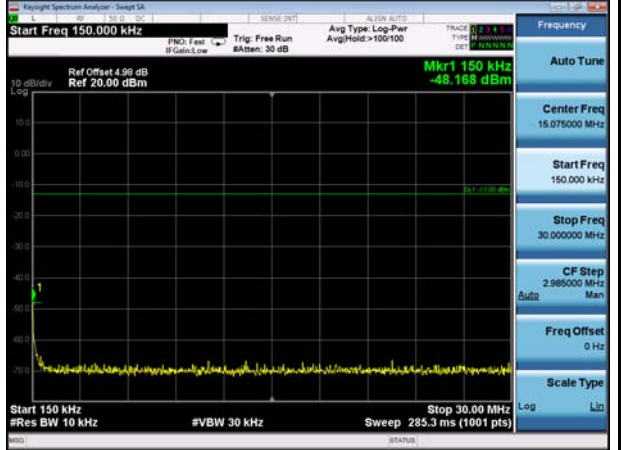
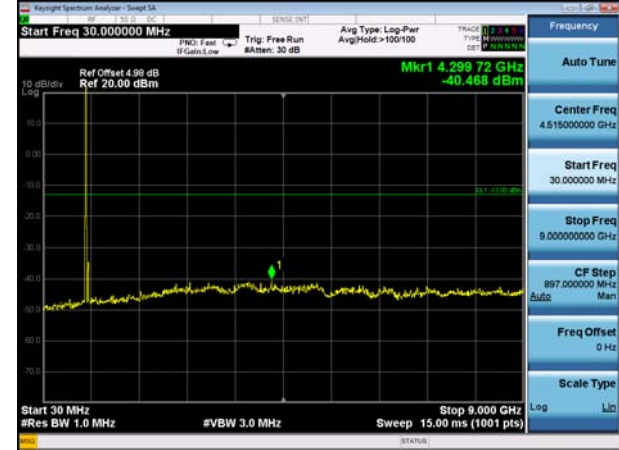
LTE Band 26_10M					
QPSK			16QAM		
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)
26740	819	8.9644	26740	819	8.9773
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26740	819	9.774	26740	819	9.768

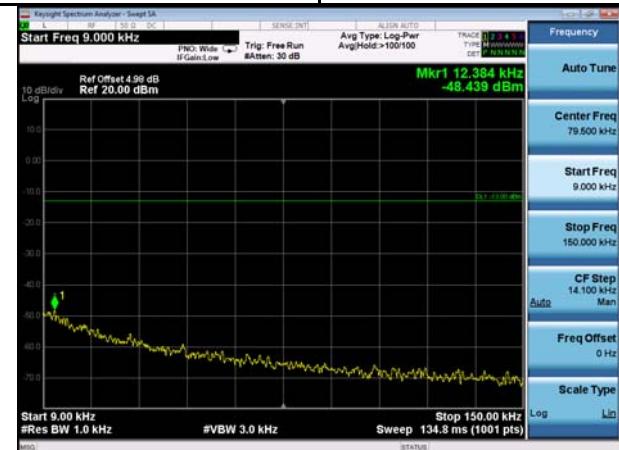
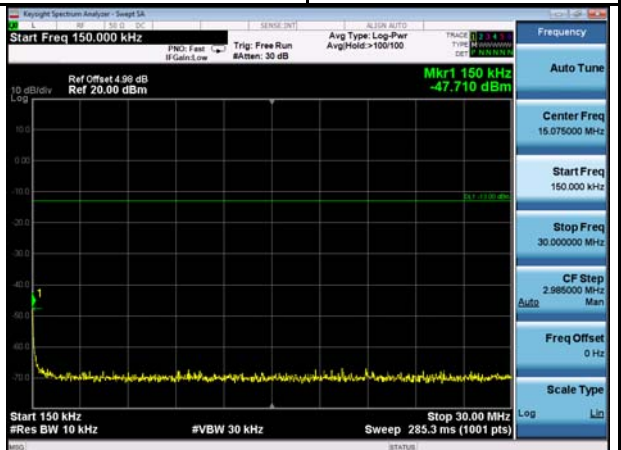
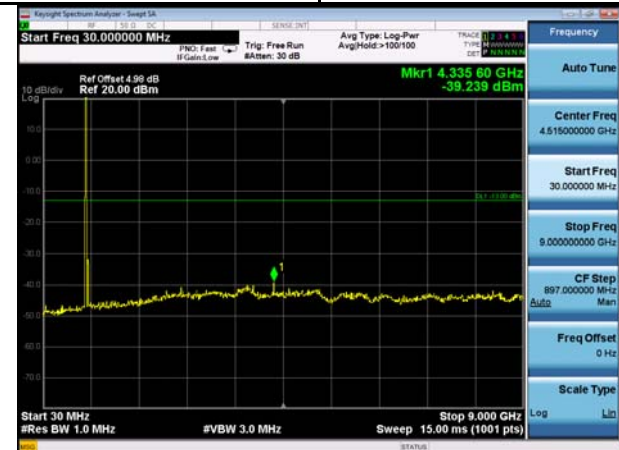


APPENDIX C - CONDUCTED EMISSIONS

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	-	-
			

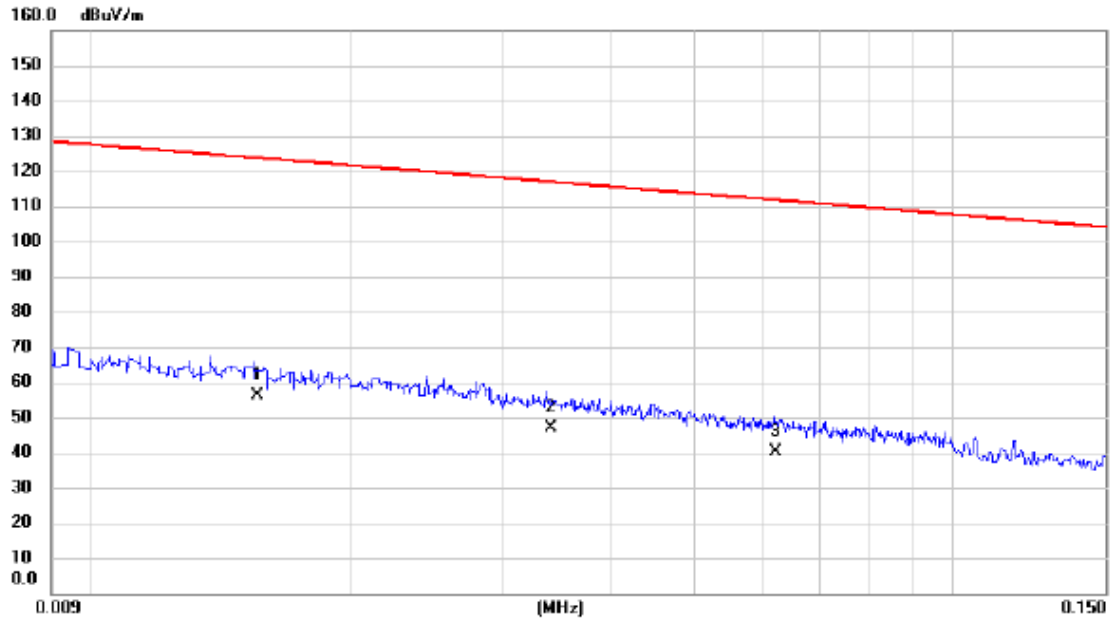
LTE Band 26_5M			
Channel	Frequency(MHz)	Channel	Frequency(MHz)
26740	819	26740	819
			
Channel	Frequency(MHz)	-	-
26740	819	-	-
			

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

APPENDIX D - RADIATED EMISSION (9KHZ TO 30MHZ)

Test Mode: TX Mode (Adapter: Liteon / ADLX45YLC2A)

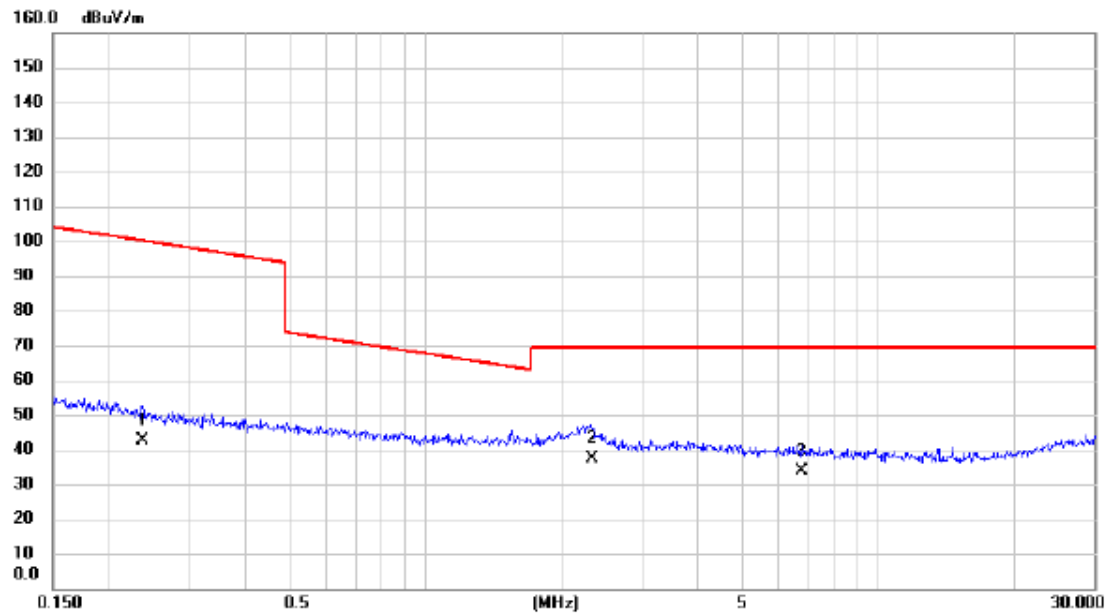
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.016	37.36	18.96	56.32	123.74	-67.42	AVG	
2		0.034	32.57	14.58	47.15	116.92	-69.77	AVG	
3		0.062	27.32	12.78	40.10	111.72	-71.62	AVG	

Test Mode: TX Mode (Adapter: Liteon / ADLX45YLC2A)

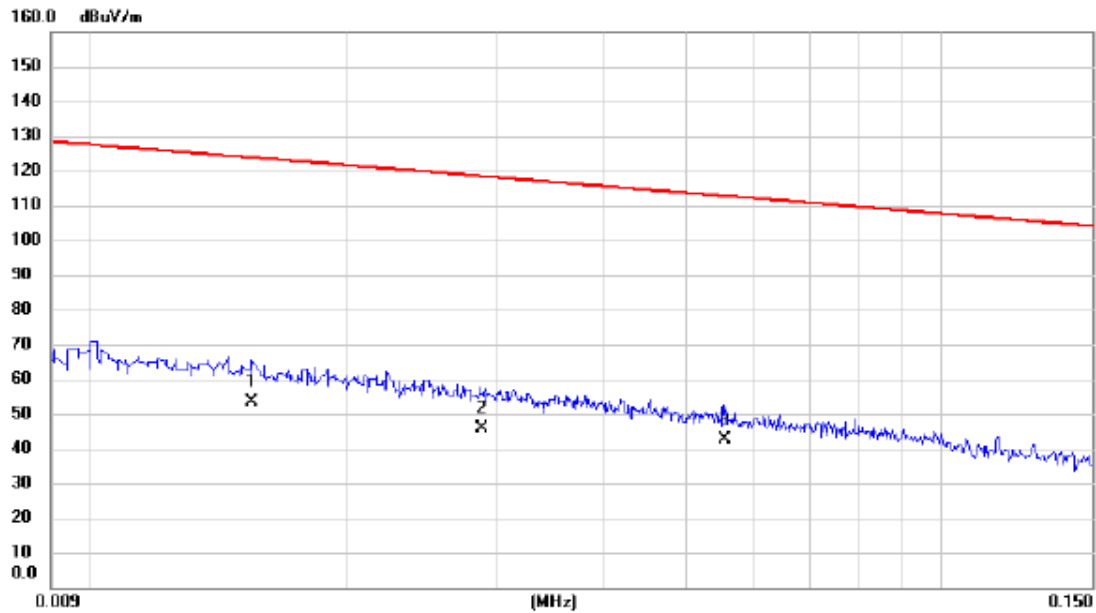
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.236	30.60	11.90	42.50	100.14	-57.64	AVG	
2	*	2.333	25.90	11.40	37.30	69.54	-32.24	QP	
3		6.802	22.40	11.36	33.76	69.54	-35.78	QP	

Test Mode: TX Mode (Adapter: Liteon / ADLX45YLC2A)

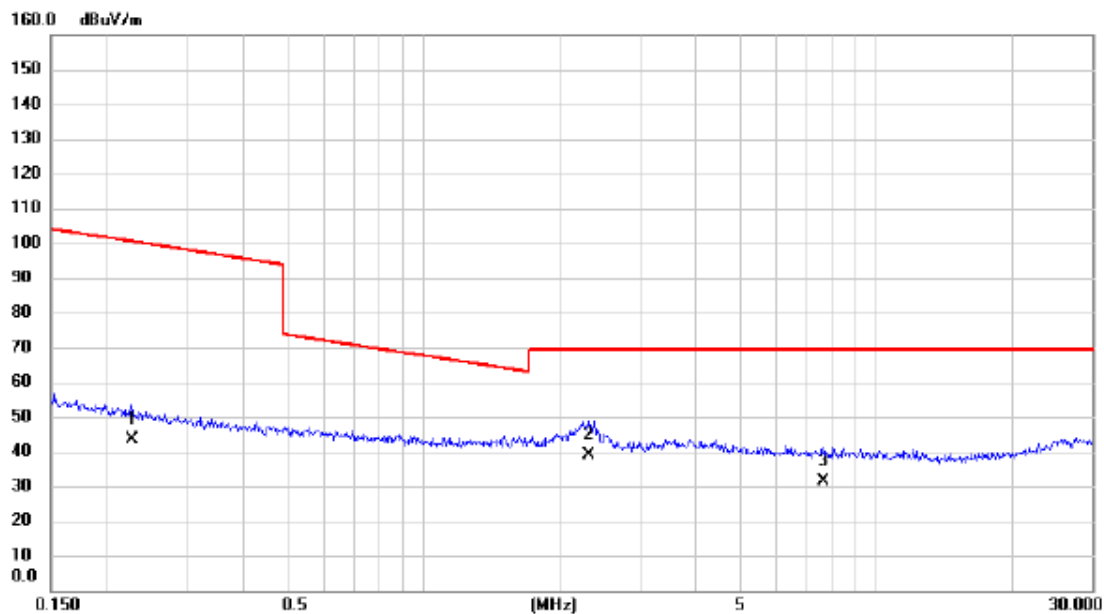
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.015	34.51	18.99	53.50	123.80	-70.30	AVG	
2		0.029	30.33	15.33	45.66	118.42	-72.76	AVG	
3	*	0.056	29.86	12.90	42.76	112.70	-69.94	AVG	

Test Mode: TX Mode (Adapter: Liteon / ADLX45YLC2A)

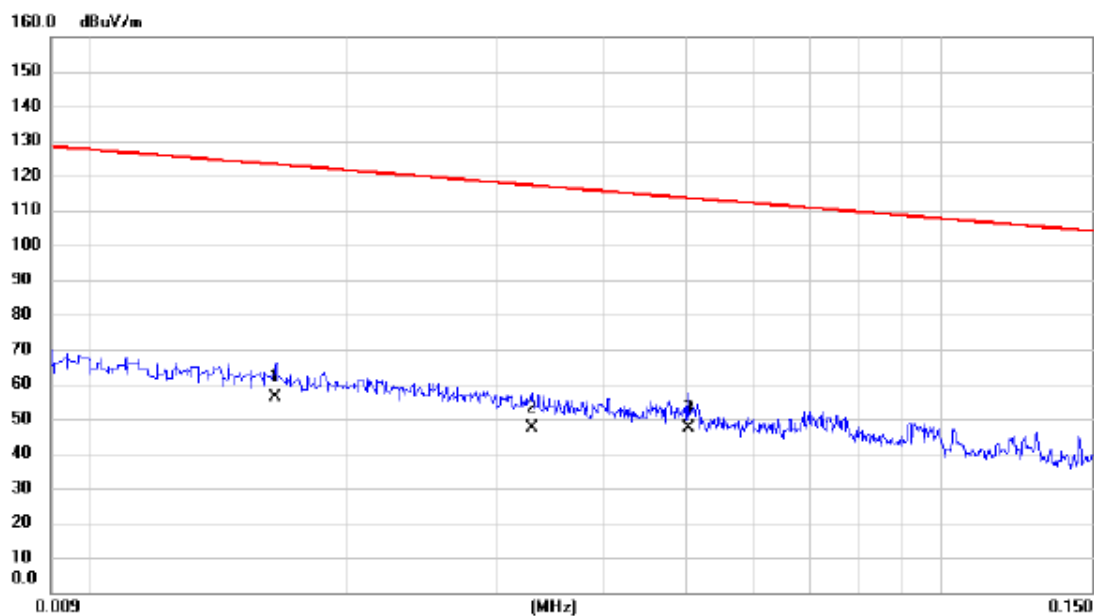
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.227	31.60	11.91	43.51	100.50	-56.99	AVG	
2	*	2.321	27.64	11.41	39.05	69.54	-30.49	QP	
3		7.646	20.25	11.35	31.60	69.54	-37.94	QP	

Test Mode: TX Mode (Adapter: Chicony / ADLX45YCC2A)

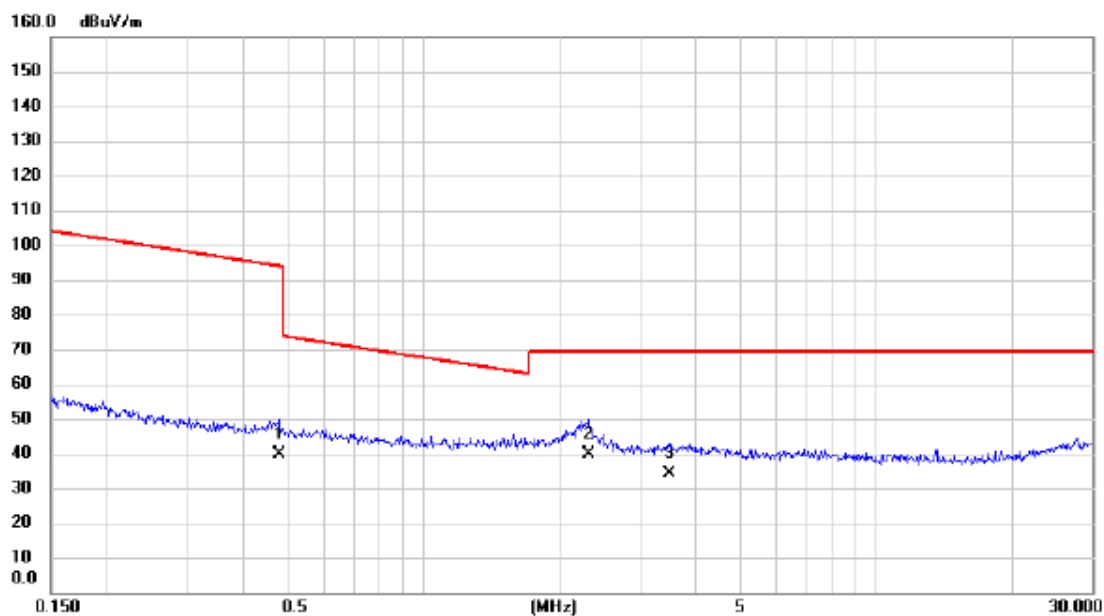
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.017	37.36	18.71	56.07	123.26	-67.19	AVG	
2		0.033	32.83	14.70	47.53	117.23	-69.70	AVG	
3	*	0.051	34.26	12.99	47.25	113.54	-66.29	AVG	

Test Mode: TX Mode (Adapter: Chicony / ADLX45YCC2A)

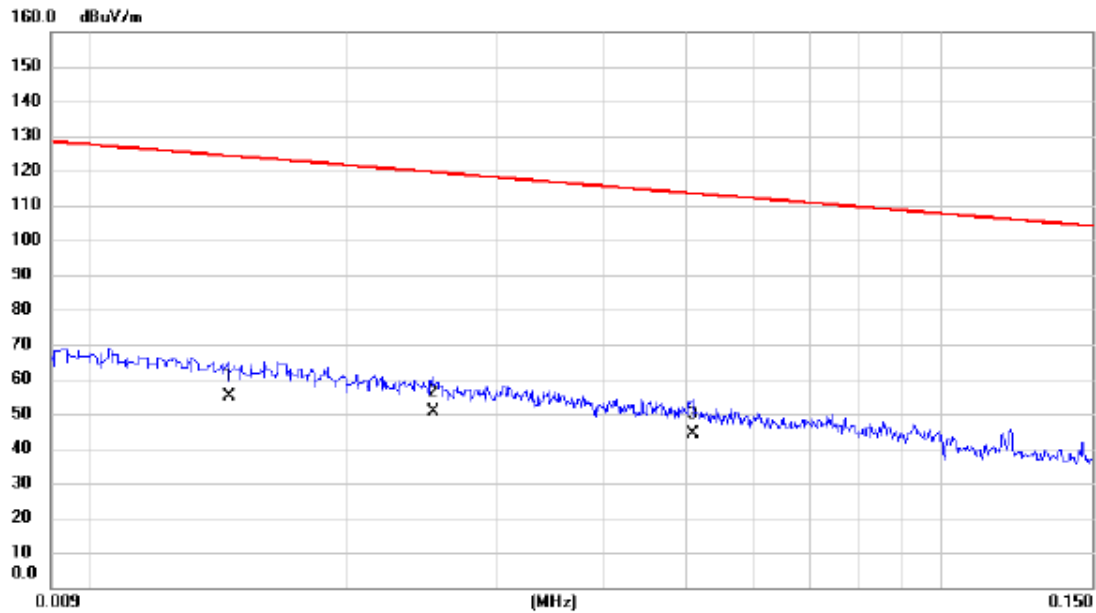
Ant 0°



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.479	27.82	11.80	39.62	94.00	-54.38	AVG	
2	*	2.321	28.38	11.41	39.79	69.54	-29.75	QP	
3		3.491	22.90	11.17	34.07	69.54	-35.47	QP	

Test Mode: TX Mode (Adapter: Chicony / ADLX45YCC2A)

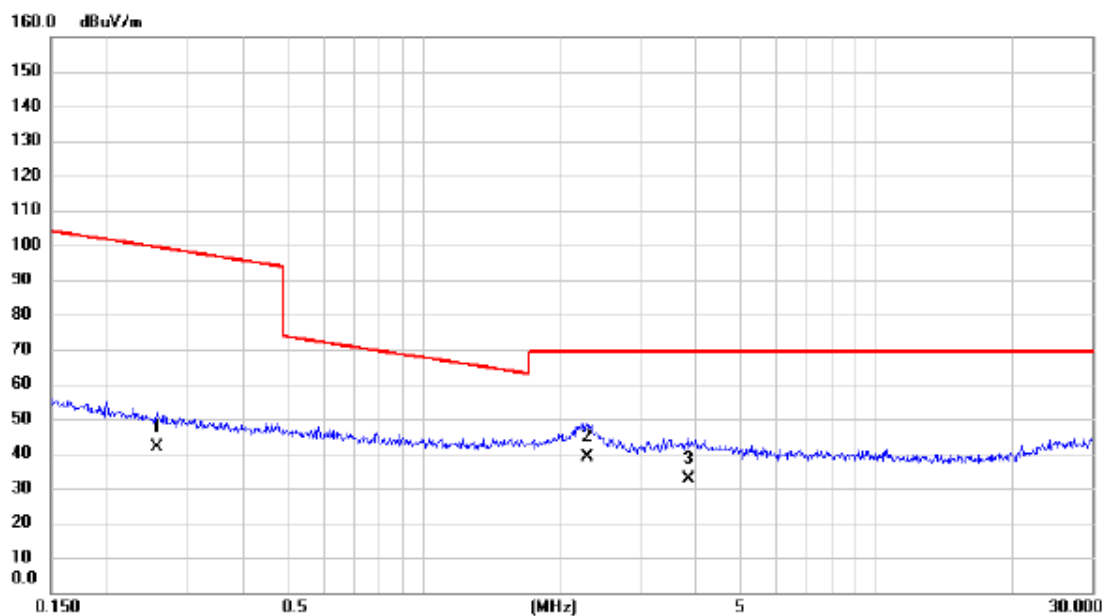
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.015	35.62	19.23	54.85	124.32	-69.47	AVG	
2	*	0.025	34.23	16.29	50.52	119.54	-69.02	AVG	
3		0.051	31.08	12.98	44.06	113.45	-69.39	AVG	

Test Mode: TX Mode (Adapter: Chicony / ADLX45YCC2A)

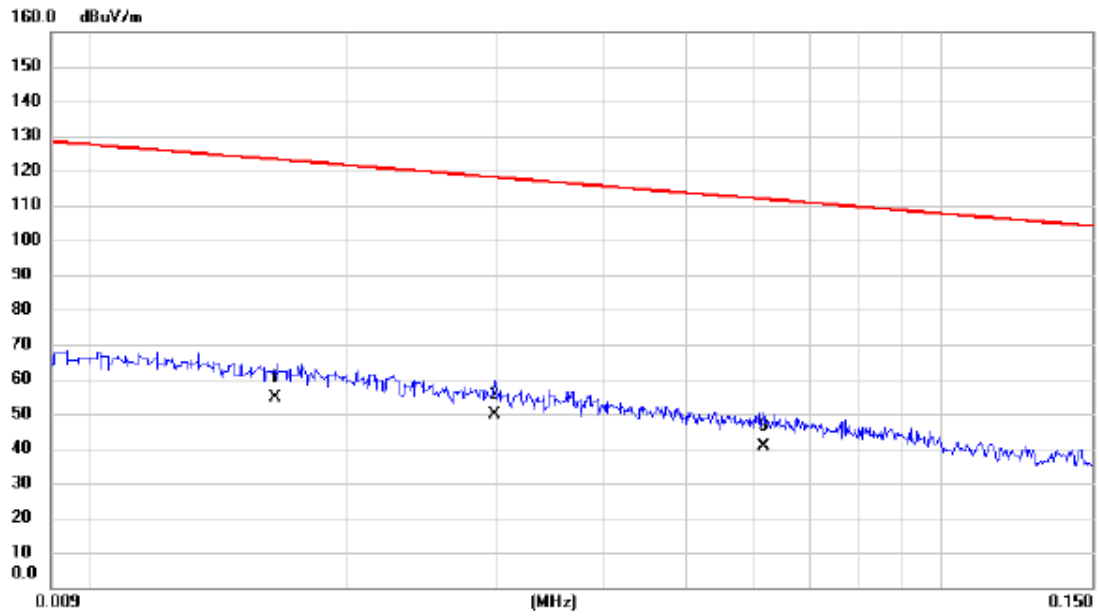
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.258	30.02	11.86	41.88	99.39	-57.51	AVG	
2	*	2.297	27.48	11.42	38.90	69.54	-30.64	QP	
3		3.840	21.23	11.23	32.46	69.54	-37.08	QP	

Test Mode: TX Mode (Adapter: Liteon / ADLX45YLC3A)

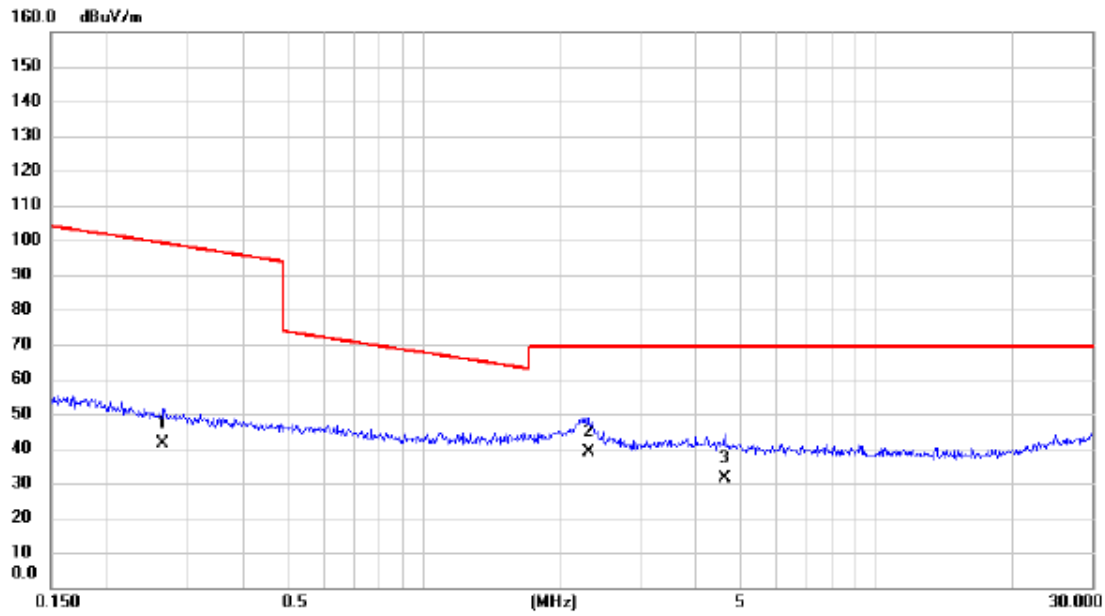
Ant 0°



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.017	35.84	18.71	54.55	123.26	-68.71	AVG	
2	*	0.030	34.92	15.05	49.97	118.12	-68.15	AVG	
3		0.062	27.84	12.79	40.63	111.79	-71.16	AVG	

Test Mode: TX Mode (Adapter: Liteon / ADLX45YLC3A)

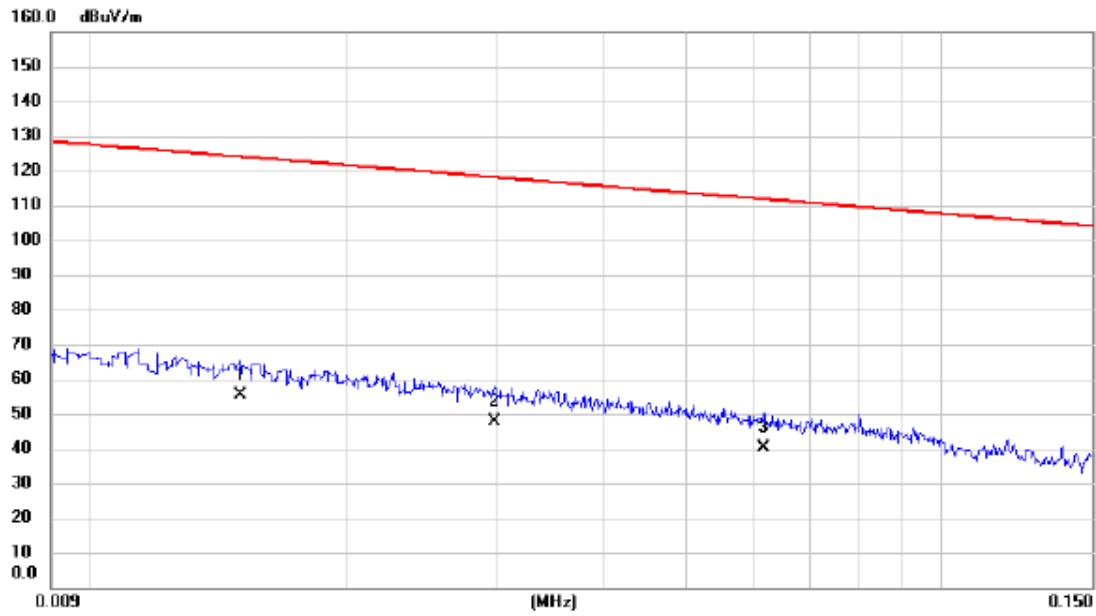
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.266	29.51	11.85	41.36	99.11	-57.75	AVG	
2	*	2.321	27.55	11.41	38.96	69.54	-30.58	QP	
3		4.622	20.26	11.34	31.60	69.54	-37.94	QP	

Test Mode: TX Mode (Adapter: Liteon / ADLX45YLC3A)

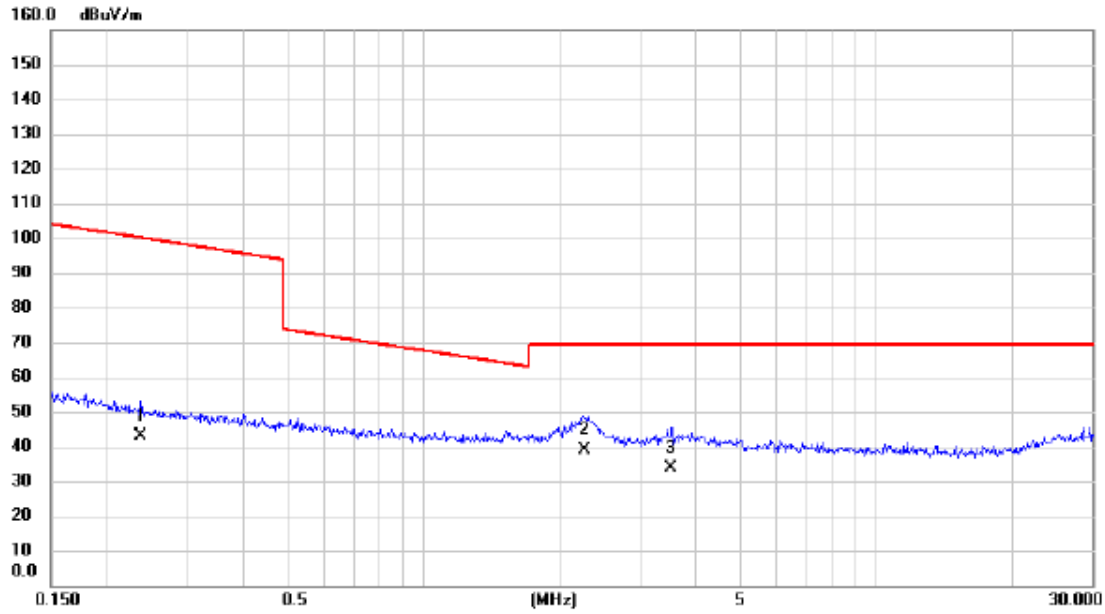
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.015	36.23	19.13	55.36	124.08	-68.72	AVG	
2		0.030	32.58	15.05	47.63	118.12	-70.49	AVG	
3		0.062	27.47	12.79	40.26	111.79	-71.53	AVG	

Test Mode: TX Mode (Adapter: Liteon / ADLX45YLC3A)

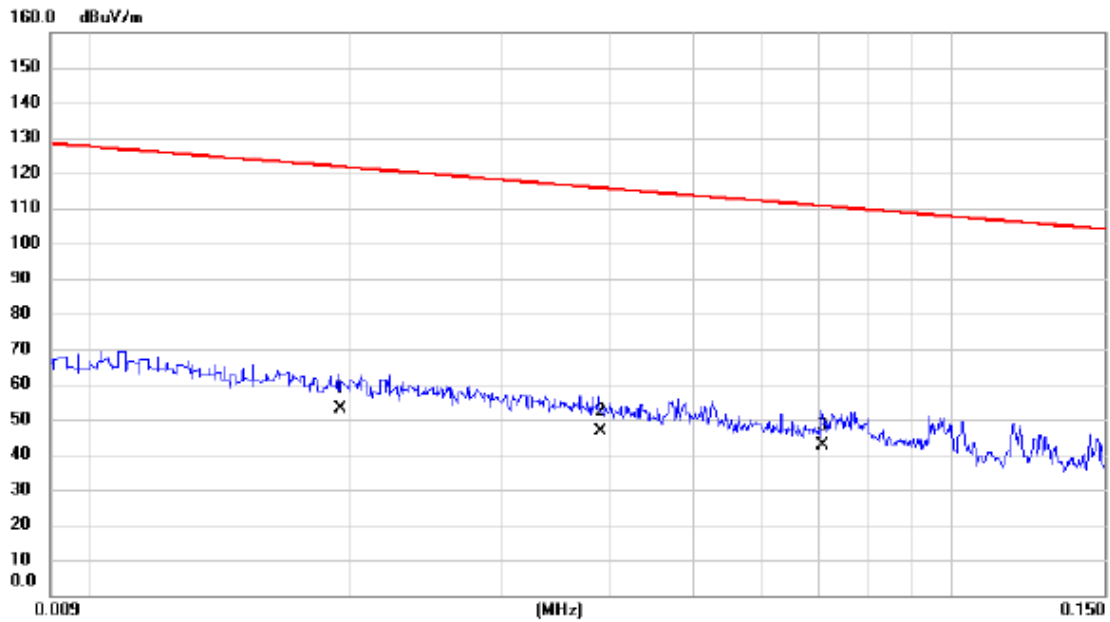
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.237	31.03	11.90	42.93	100.13	-57.20	AVG	
2	*	2.273	27.48	11.43	38.91	69.54	-30.63	QP	
3		3.528	22.70	11.18	33.88	69.54	-35.66	QP	

Test Mode: TX Mode (Adapter: Chicony / ADLX45YCC3A)

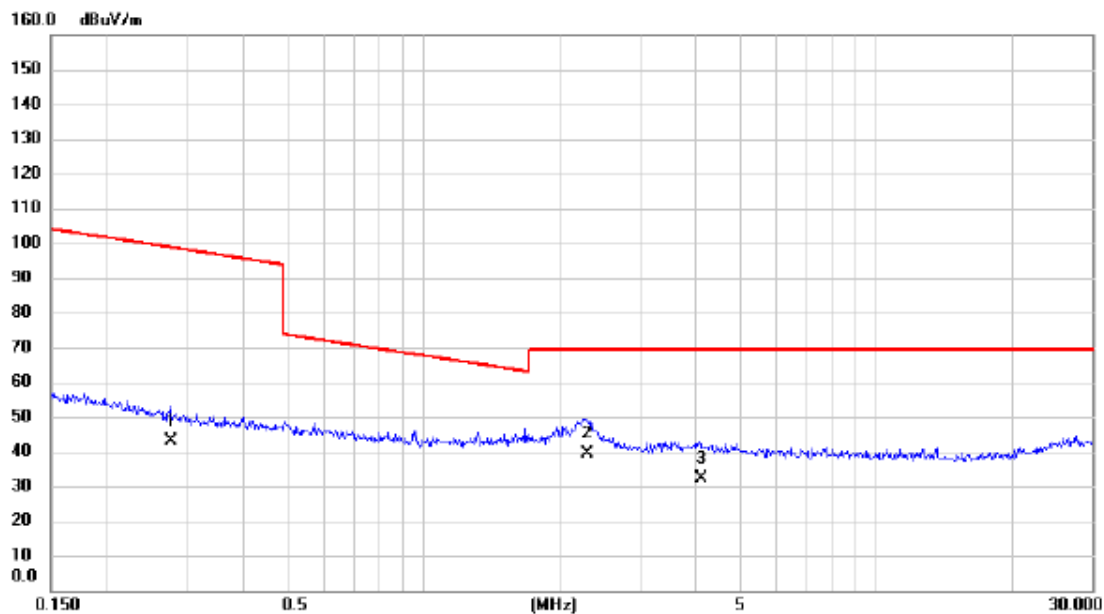
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.020	35.28	17.89	53.17	121.80	-68.63	AVG	
2		0.039	32.55	14.09	46.64	115.76	-69.12	AVG	
3	*	0.071	29.88	12.63	42.51	110.60	-68.09	AVG	

Test Mode: TX Mode (Adapter: Chicony / ADLX45YCC3A)

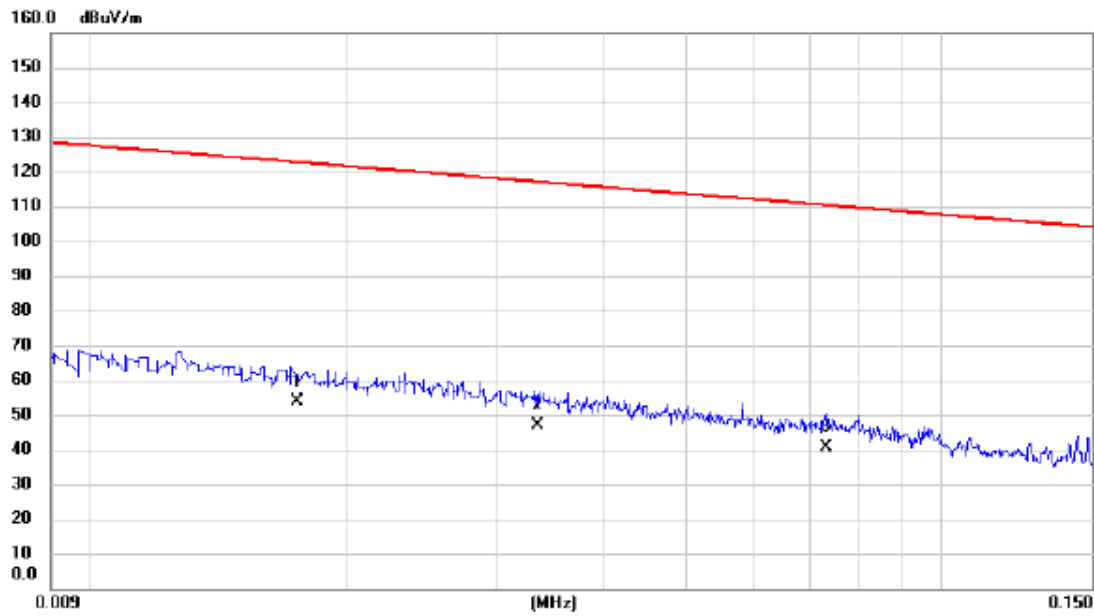
Ant 0°



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.276	30.98	11.84	42.82	98.79	-55.97	AVG	
2	*	2.297	28.15	11.42	39.57	69.54	-29.97	QP	
3		4.092	20.78	11.26	32.04	69.54	-37.50	QP	

Test Mode: TX Mode (Adapter: Chicony / ADLX45YCC3A)

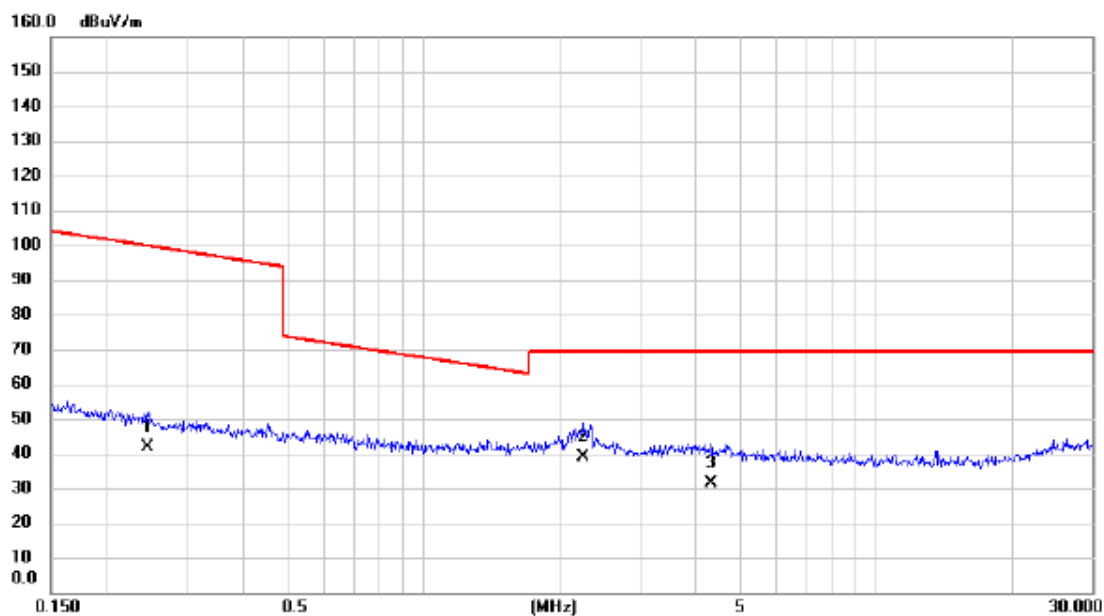
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.018	35.19	18.44	53.63	122.74	-69.11	AVG	
2		0.034	32.35	14.65	47.00	117.10	-70.10	AVG	
3		0.073	27.89	12.59	40.48	110.34	-69.86	AVG	

Test Mode: TX Mode (Adapter: Chicony / ADLX45YCC3A)

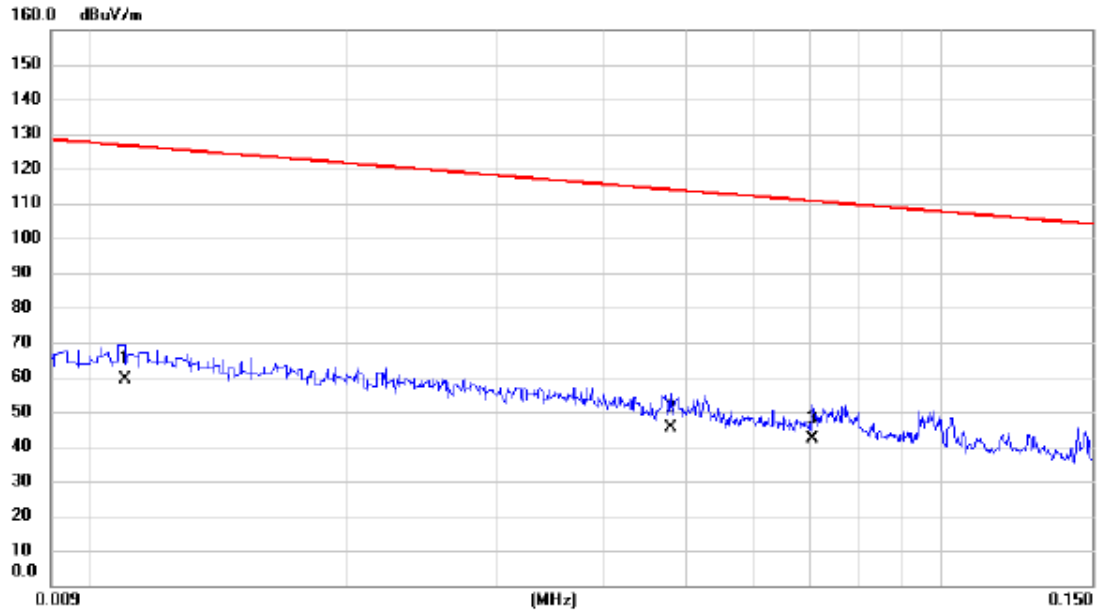
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.245	30.00	11.88	41.88	99.80	-57.92	AVG	
2	*	2.249	27.53	11.44	38.97	69.54	-30.57	QP	
3		4.315	19.95	11.30	31.25	69.54	-38.29	QP	

Test Mode: TX Mode (Adapter: Liteon / ADLX65YLC3A)

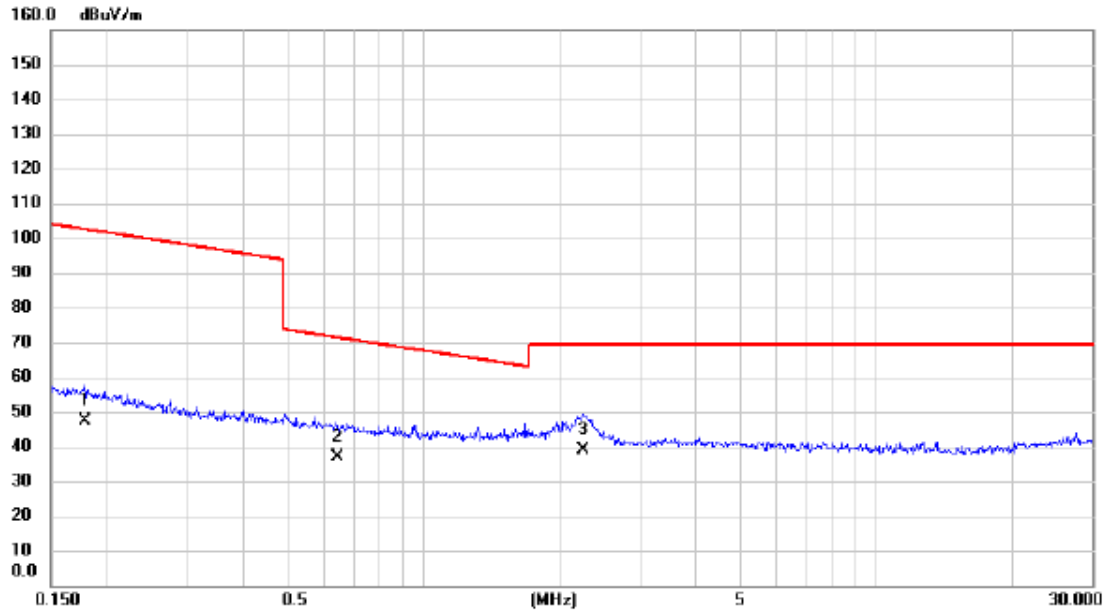
Ant 0°



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.011	39.15	20.23	59.38	126.78	-67.40	AVG	
2		0.048	32.23	13.20	45.43	113.98	-68.55	AVG	
3		0.070	29.72	12.63	42.35	110.65	-68.30	AVG	

Test Mode: TX Mode (Adapter: Liteon / ADLX65YLC3A)

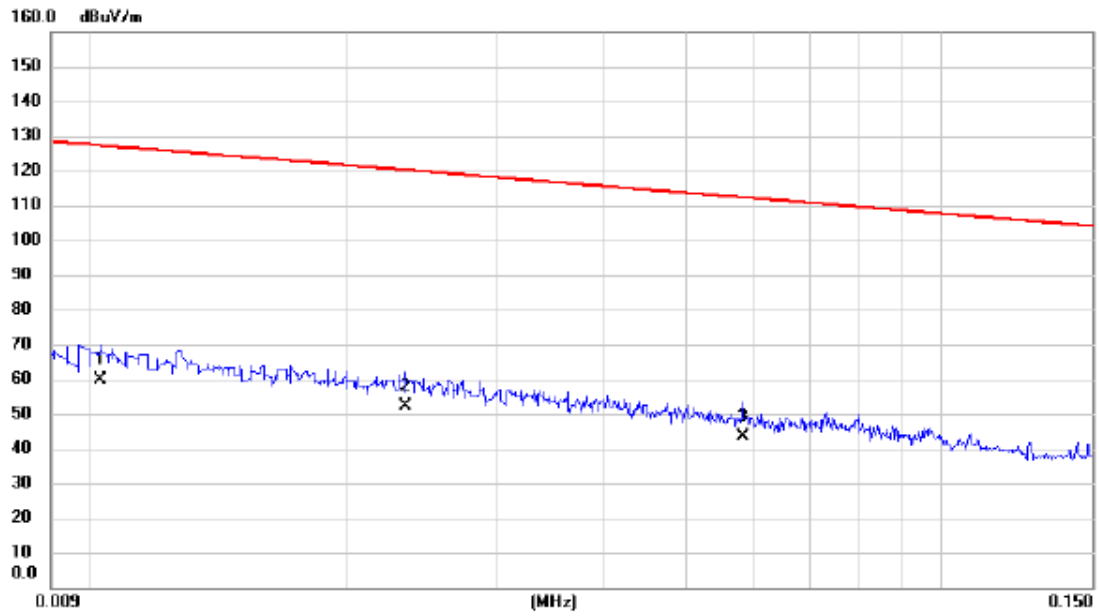
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.178	35.25	11.98	47.23	102.57	-55.34	AVG	
2		0.644	25.12	11.86	36.98	71.43	-34.45	QP	
3	*	2.249	27.37	11.44	38.81	69.54	-30.73	QP	

Test Mode: TX Mode (Adapter: Liteon / ADLX65YLC3A)

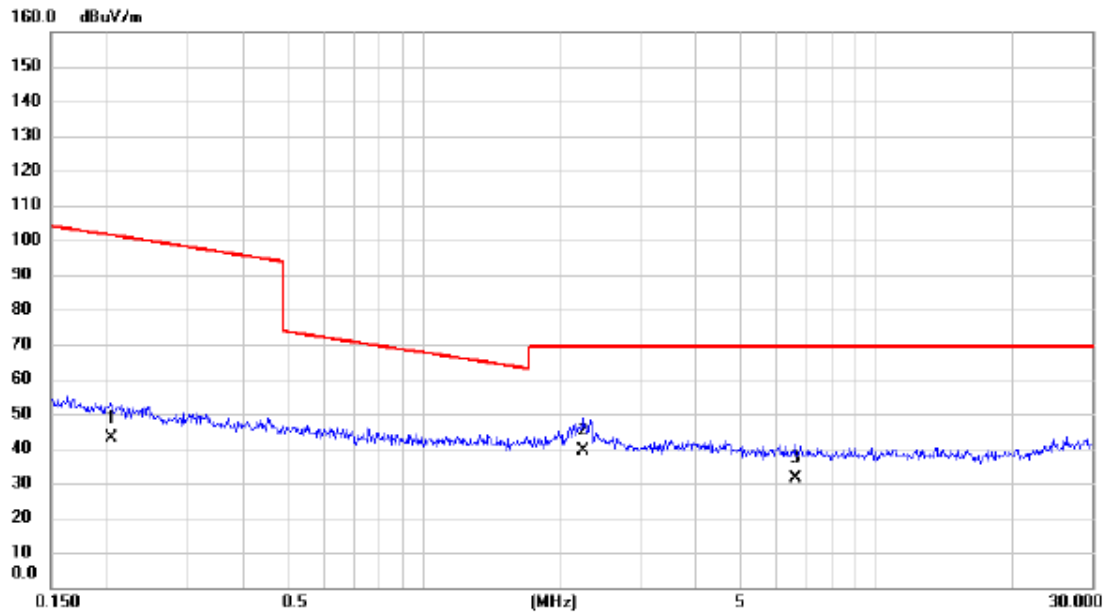
Ant 90°



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.010	39.31	20.42	59.73	127.35	-67.62	AVG	
2		0.024	35.32	16.79	52.11	120.18	-68.07	AVG	
3		0.058	30.42	12.85	43.27	112.28	-69.01	AVG	

Test Mode: TX Mode (Adapter: Liteon / ADLX65YLC3A)

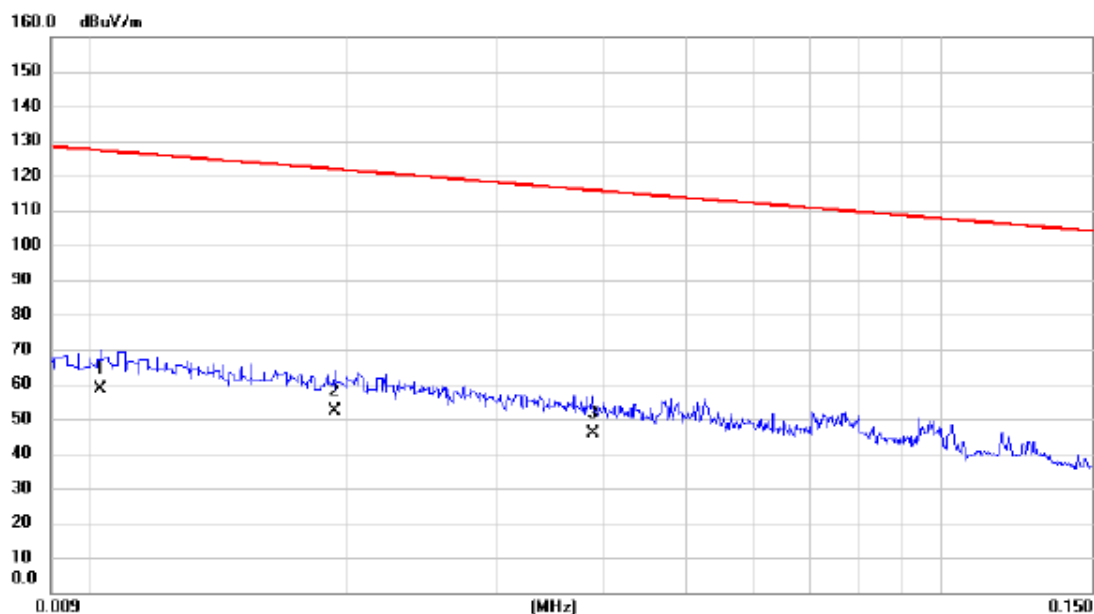
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.204	31.08	11.94	43.02	101.41	-58.39	AVG	
2	*	2.249	28.02	11.44	39.46	69.54	-30.08	QP	
3		6.662	19.94	11.37	31.31	69.54	-38.23	QP	

Test Mode: TX Mode (Adapter: Chicony / ADLX65YCC3A)

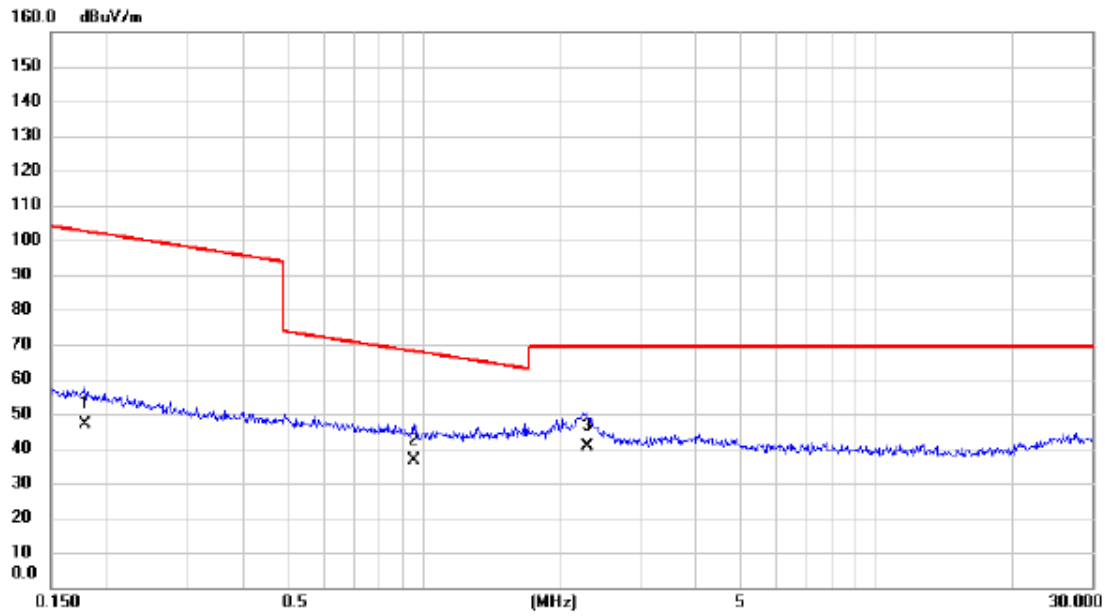
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.010	38.26	20.42	58.68	127.35	-68.67	AVG	
2		0.019	34.18	17.91	52.09	121.85	-69.76	AVG	
3		0.039	31.87	14.10	45.97	115.78	-69.81	AVG	

Test Mode: TX Mode (Adapter: Chicony / ADLX65YCC3A)

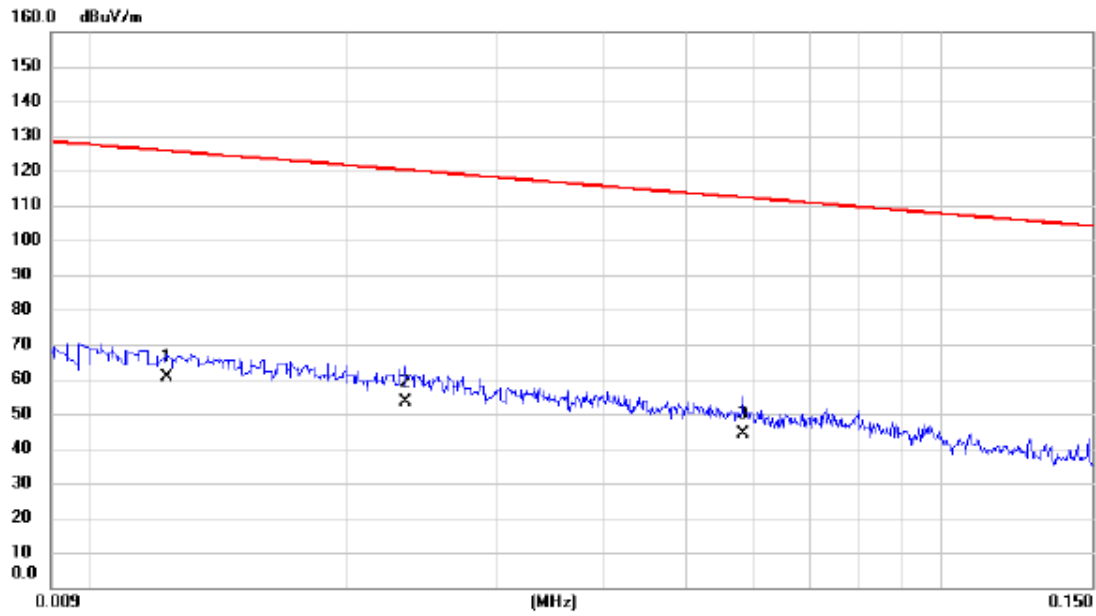
Ant 0°



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.178	35.15	11.98	47.13	102.57	-55.44	AVG	
2		0.953	24.82	11.98	36.80	68.02	-31.22	QP	
3 *		2.297	29.08	11.42	40.50	69.54	-29.04	QP	

Test Mode: TX Mode (Adapter: Chicony / ADLX65YCC3A)

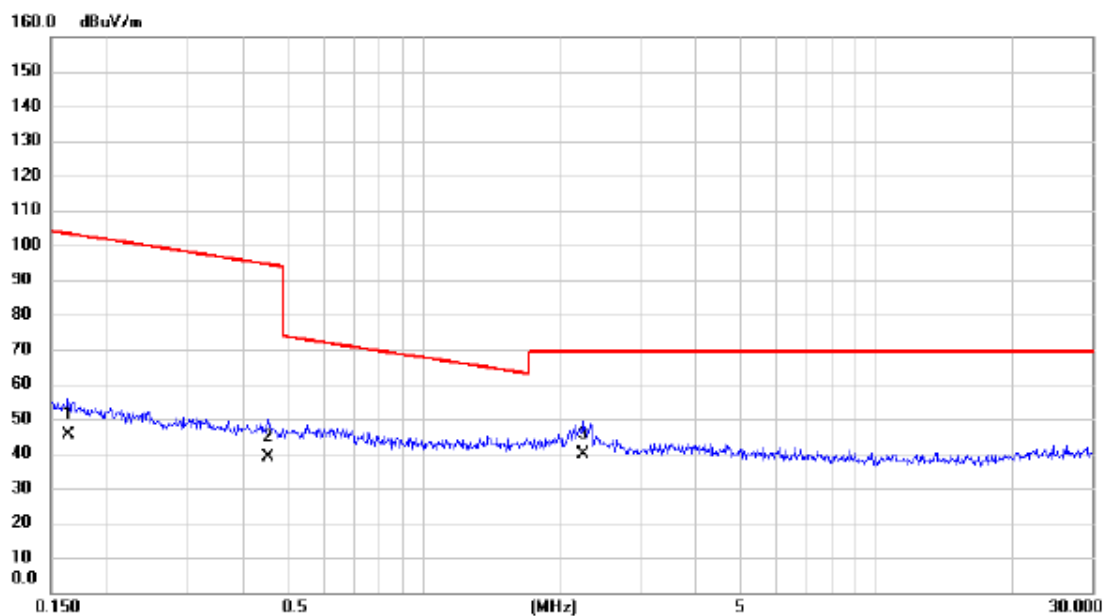
Ant 90°



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.012	40.54	19.87	60.41	125.81	-65.40	AVG	
2		0.024	36.62	16.79	53.41	120.18	-66.77	AVG	
3		0.058	31.25	12.85	44.10	112.28	-68.18	AVG	

Test Mode: TX Mode (Adapter: Chicony / ADLX65YCC3A)

Ant 90°



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.163	33.29	12.01	45.30	103.35	-58.05	AVG	
2		0.454	27.34	11.80	39.14	94.46	-55.32	QP	
3 *		2.249	28.27	11.44	39.71	69.54	-29.83	QP	

APPENDIX E - RADIATED EMISSION (30MHZ TO 1GHZ)

Test Mode: LTE Band 26 (Adapter: Liteon / ADLX45YLC2A)

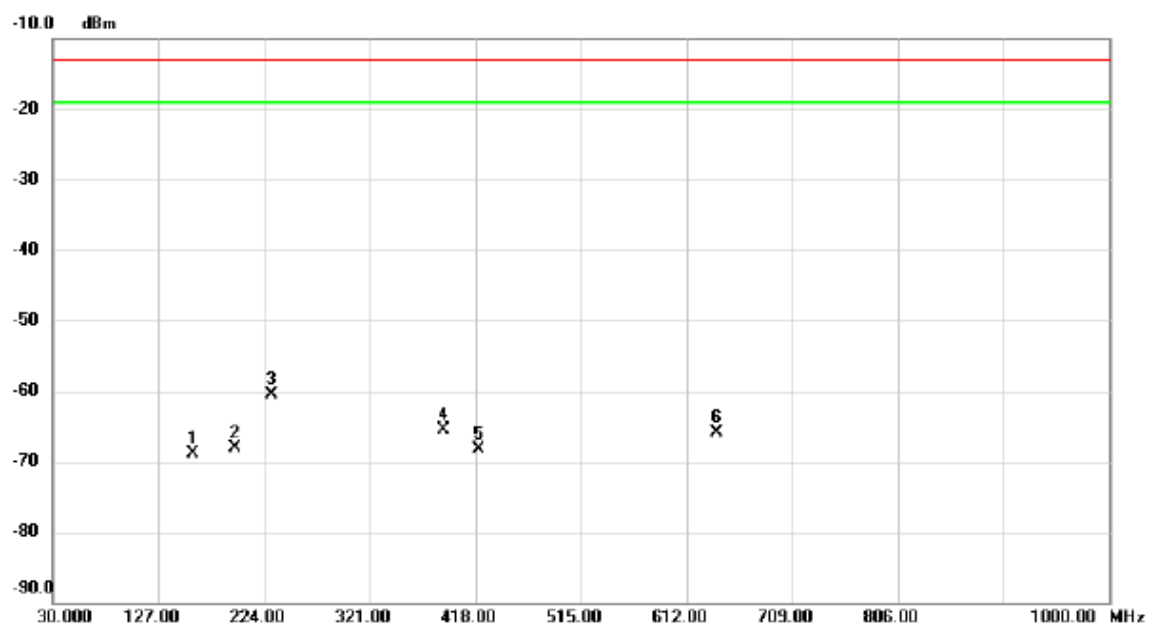
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		33.8800	-64.55	-5.41	-69.96	-13.00	-56.96	peak	
2		144.4600	-72.89	0.12	-72.77	-13.00	-59.77	peak	
3		226.9100	-65.22	-4.13	-69.35	-13.00	-56.35	peak	
4		271.5300	-71.39	-2.03	-73.42	-13.00	-60.42	peak	
5	*	517.9100	-70.75	4.62	-66.13	-13.00	-53.13	peak	
6		647.8900	-76.29	6.76	-69.53	-13.00	-56.53	peak	

Test Mode: LTE Band 26 (Adapter: Liteon / ADLX45YLC2A)

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		159.0100	-68.20	-0.69	-68.89	-13.00	-55.89	peak	
2		196.8400	-64.53	-3.59	-68.12	-13.00	-55.12	peak	
3	*	230.7900	-56.69	-3.87	-60.56	-13.00	-47.56	peak	
4		388.9000	-68.37	2.81	-65.56	-13.00	-52.56	peak	
5		420.9100	-71.98	3.61	-68.37	-13.00	-55.37	peak	
6		640.1300	-72.58	6.64	-65.94	-13.00	-52.94	peak	

Test Mode: LTE Band 26 (Adapter: Chicony / ADLX45YCC2A)

Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		32.9100	-65.95	-4.53	-70.48	-13.00	-57.48	peak	
2		136.7000	-68.50	-0.57	-69.07	-13.00	-56.07	peak	
3		282.2000	-73.51	-1.34	-74.85	-13.00	-61.85	peak	
4	*	517.9100	-71.89	4.62	-67.27	-13.00	-54.27	peak	
5		550.8900	-73.66	4.80	-68.86	-13.00	-55.86	peak	
6		701.2400	-76.73	7.46	-69.27	-13.00	-56.27	peak	

Test Mode: LTE Band 26 (Adapter: Chicony / ADLX45YCC2A)

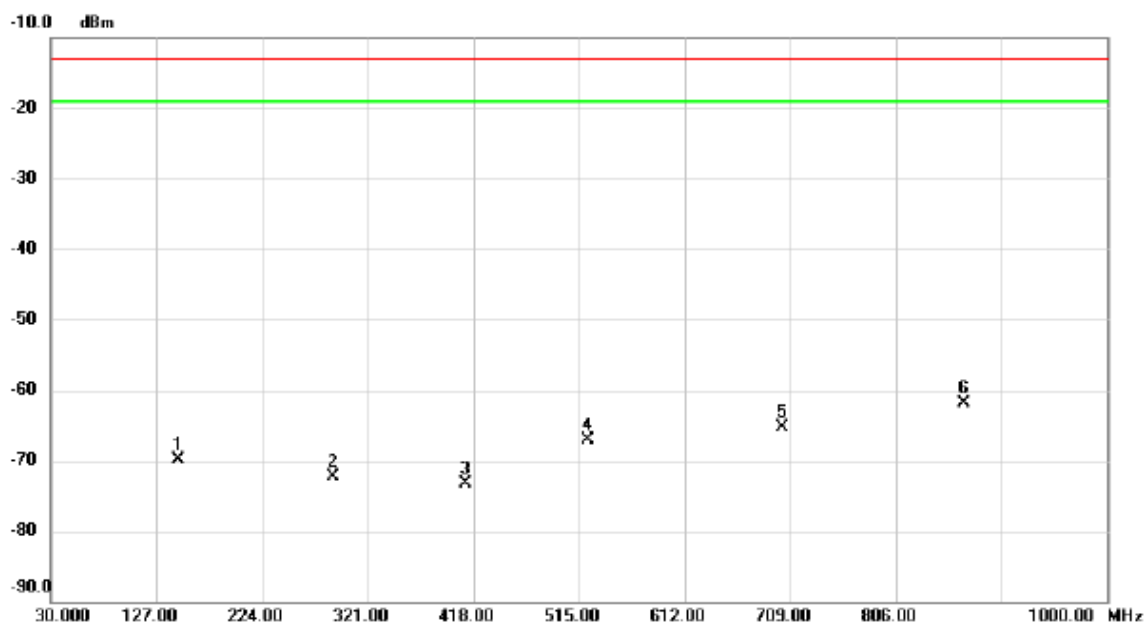
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		161.9200	-71.25	-0.87	-72.12	-13.00	-59.12	peak	
2		226.9100	-63.68	-4.13	-67.81	-13.00	-54.81	peak	
3		250.1900	-64.43	-2.76	-67.19	-13.00	-54.19	peak	
4		388.9000	-72.07	2.81	-69.26	-13.00	-56.26	peak	
5		420.9100	-73.83	3.61	-70.22	-13.00	-57.22	peak	
6	*	635.2800	-72.15	6.57	-65.58	-13.00	-52.58	peak	

Test Mode: LTE Band 26 (Adapter: Liteon / ADLX45YLC3A)

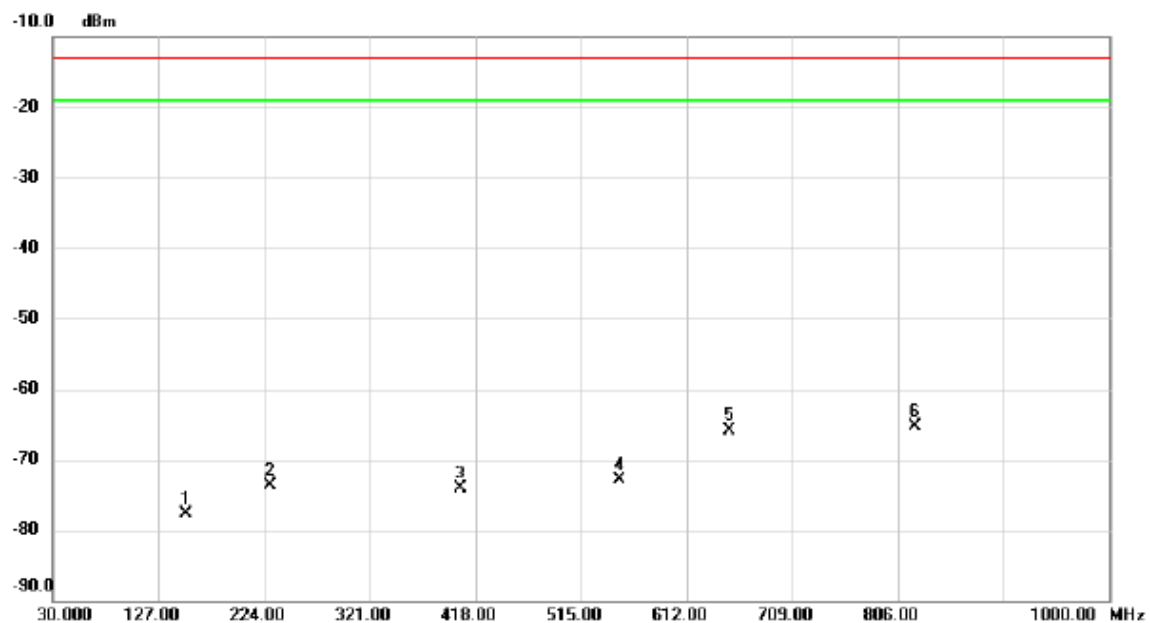
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		146.4000	-70.06	0.07	-69.99	-13.00	-56.99	peak	
2		289.9600	-71.06	-1.25	-72.31	-13.00	-59.31	peak	
3		410.2400	-76.74	3.48	-73.26	-13.00	-60.26	peak	
4		522.7600	-71.69	4.64	-67.05	-13.00	-54.05	peak	
5		701.2400	-72.66	7.46	-65.20	-13.00	-52.20	peak	
6	*	868.0800	-72.89	10.93	-61.96	-13.00	-48.96	peak	

Test Mode: LTE Band 26 (Adapter: Liteon / ADLX45YLC3A)

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		152.2200	-77.54	-0.18	-77.72	-13.00	-64.72	peak	
2		229.8200	-69.80	-3.92	-73.72	-13.00	-60.72	peak	
3		404.4200	-77.50	3.41	-74.09	-13.00	-61.09	peak	
4		550.8900	-77.69	4.80	-72.89	-13.00	-59.89	peak	
5		651.7700	-72.69	6.81	-65.88	-13.00	-52.88	peak	
6	*	821.5200	-75.58	10.33	-65.25	-13.00	-52.25	peak	

Test Mode: LTE Band 26 (Adapter: Chicony / ADLX45YCC3A)

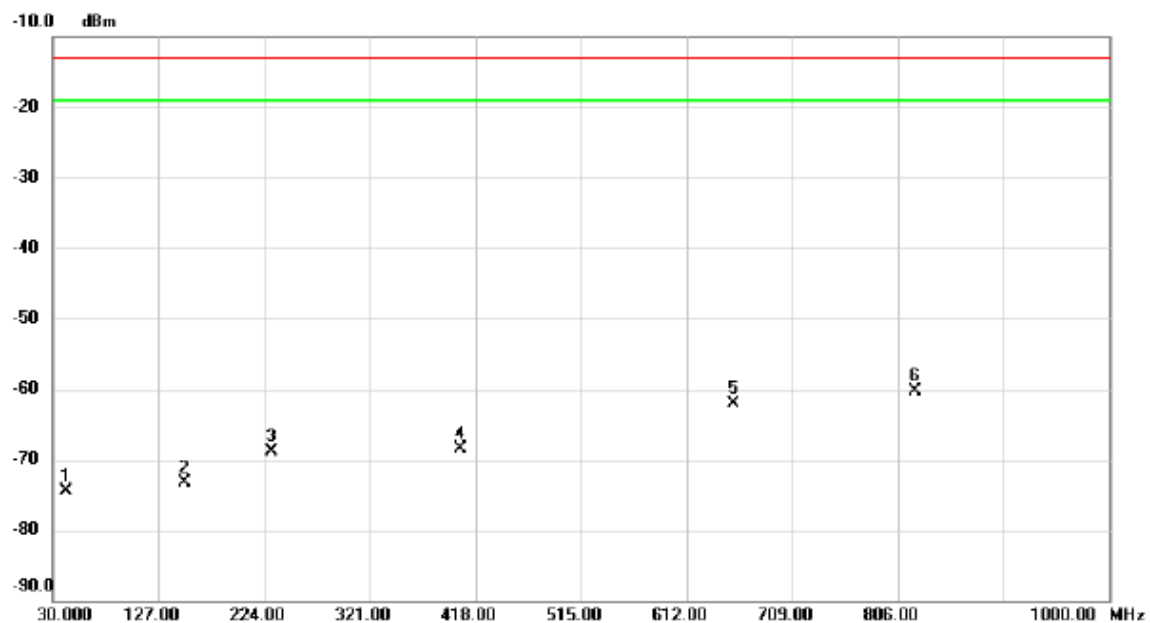
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1		103.7200	-70.96	-2.88	-73.84	-13.00	-60.84	peak	
2		146.4000	-70.38	0.07	-70.31	-13.00	-57.31	peak	
3		288.0200	-70.90	-1.27	-72.17	-13.00	-59.17	peak	
4		541.1900	-71.83	4.74	-67.09	-13.00	-54.09	peak	
5		752.6500	-72.92	8.61	-64.31	-13.00	-51.31	peak	
6	*	874.8700	-73.15	11.02	-62.13	-13.00	-49.13	peak	

Test Mode: LTE Band 26 (Adapter: Chicony / ADLX45YCC3A)

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		42.6100	-66.27	-8.30	-74.57	-13.00	-61.57	peak	
2		150.2800	-73.29	-0.04	-73.33	-13.00	-60.33	peak	
3		230.7900	-65.00	-3.87	-68.87	-13.00	-55.87	peak	
4		404.4200	-71.85	3.41	-68.44	-13.00	-55.44	peak	
5		655.6500	-68.97	6.86	-62.11	-13.00	-49.11	peak	
6	*	821.5200	-70.58	10.33	-60.25	-13.00	-47.25	peak	

Test Mode: LTE Band 26 (Adapter: Liteon / ADLX65YLC3A)

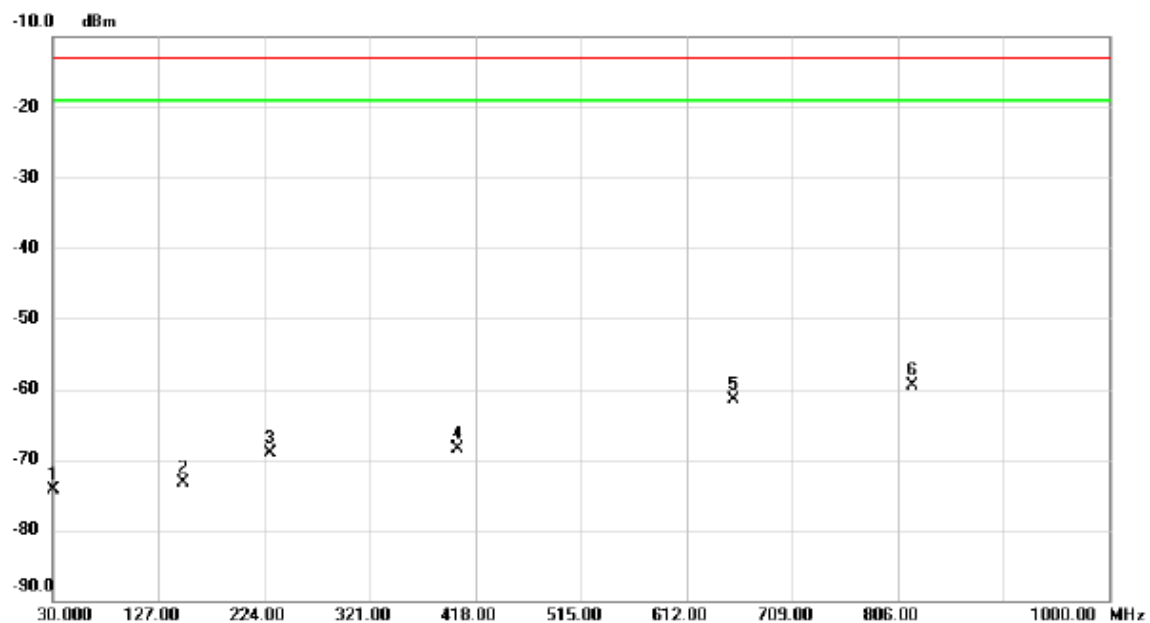
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		146.4000	-70.82	0.07	-70.75	-13.00	-57.75	peak	
2		293.8400	-71.23	-1.18	-72.41	-13.00	-59.41	peak	
3		349.1300	-73.79	0.87	-72.92	-13.00	-59.92	peak	
4		552.8300	-70.86	4.85	-66.01	-13.00	-53.01	peak	
5		743.9200	-71.52	8.40	-63.12	-13.00	-50.12	peak	
6	*	890.3900	-72.16	11.24	-60.92	-13.00	-47.92	peak	

Test Mode: LTE Band 26 (Adapter: Liteon / ADLX65YLC3A)

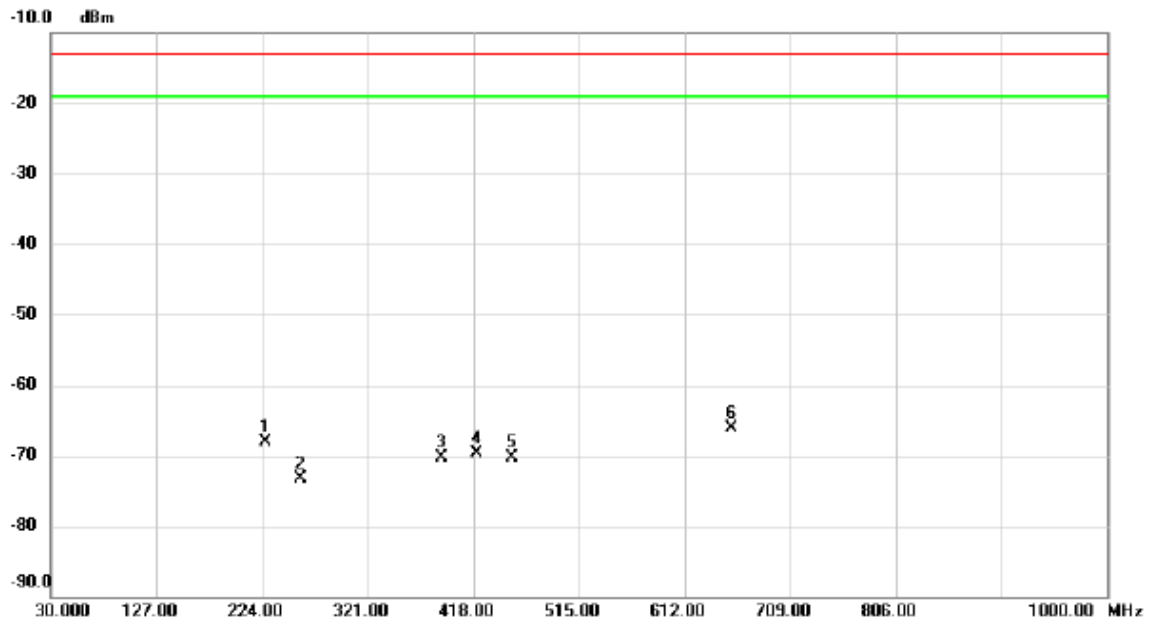
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		30.0000	-72.38	-1.89	-74.27	-13.00	-61.27	peak	
2		149.3100	-73.34	0.00	-73.34	-13.00	-60.34	peak	
3		229.8200	-65.21	-3.92	-69.13	-13.00	-56.13	peak	
4		401.5100	-71.85	3.37	-68.48	-13.00	-55.48	peak	
5		654.6800	-68.33	6.85	-61.48	-13.00	-48.48	peak	
6	*	819.5800	-69.80	10.30	-59.50	-13.00	-46.50	peak	

Test Mode: LTE Band 26 (Adapter: Chicony / ADLX65YCC3A)

Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		226.9100	-64.05	-4.13	-68.18	-13.00	-55.18	peak	
2		258.9200	-70.60	-2.72	-73.32	-13.00	-60.32	peak	
3		388.9000	-73.05	2.81	-70.24	-13.00	-57.24	peak	
4		420.9100	-73.23	3.61	-69.62	-13.00	-56.62	peak	
5		452.9200	-74.33	4.01	-70.32	-13.00	-57.32	peak	
6	*	654.6800	-72.88	6.85	-66.03	-13.00	-53.03	peak	

Test Mode: LTE Band 26 (Adapter: Chicony / ADLX65YCC3A)

Horizontal

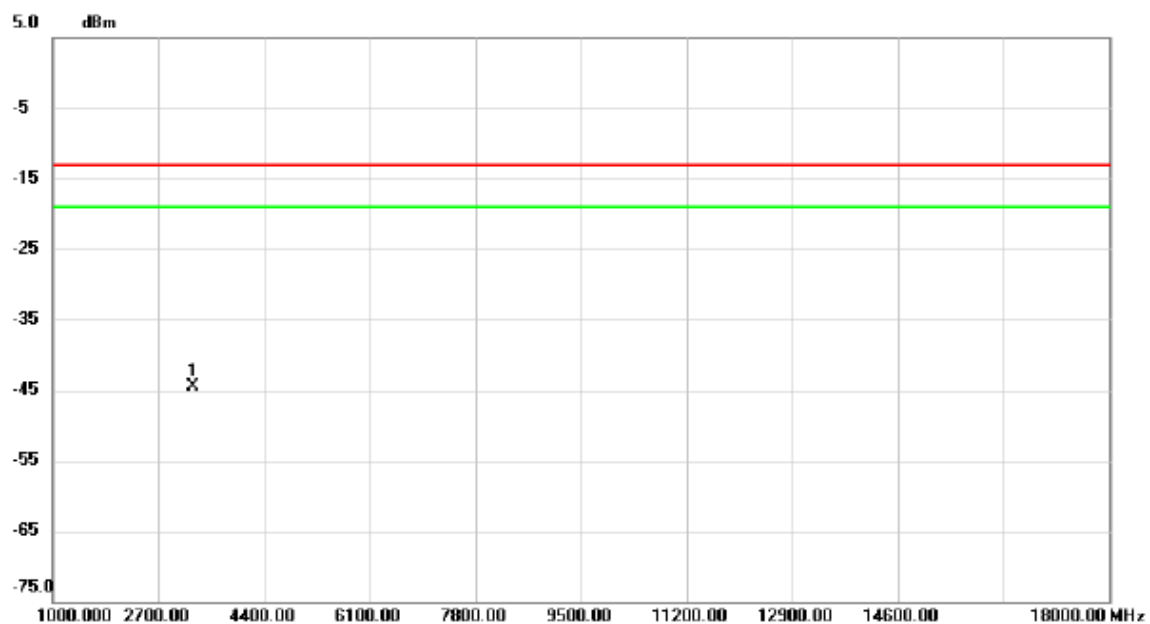


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		32.9100	-65.49	-4.53	-70.02	-13.00	-57.02	peak	
2		144.4600	-74.07	0.12	-73.95	-13.00	-60.95	peak	
3		269.5900	-73.79	-2.17	-75.96	-13.00	-62.96	peak	
4	*	517.9100	-71.25	4.62	-66.63	-13.00	-53.63	peak	
5		549.9200	-72.76	4.78	-67.98	-13.00	-54.98	peak	
6		647.8900	-75.46	6.76	-68.70	-13.00	-55.70	peak	

APPENDIX F - RADIATED EMISSION (ABOVE 1GHZ)

Test Mode: LTE Band 26_1.4M

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3260.000	-40.50	-4.01	-44.51	-13.00	-31.51	peak	

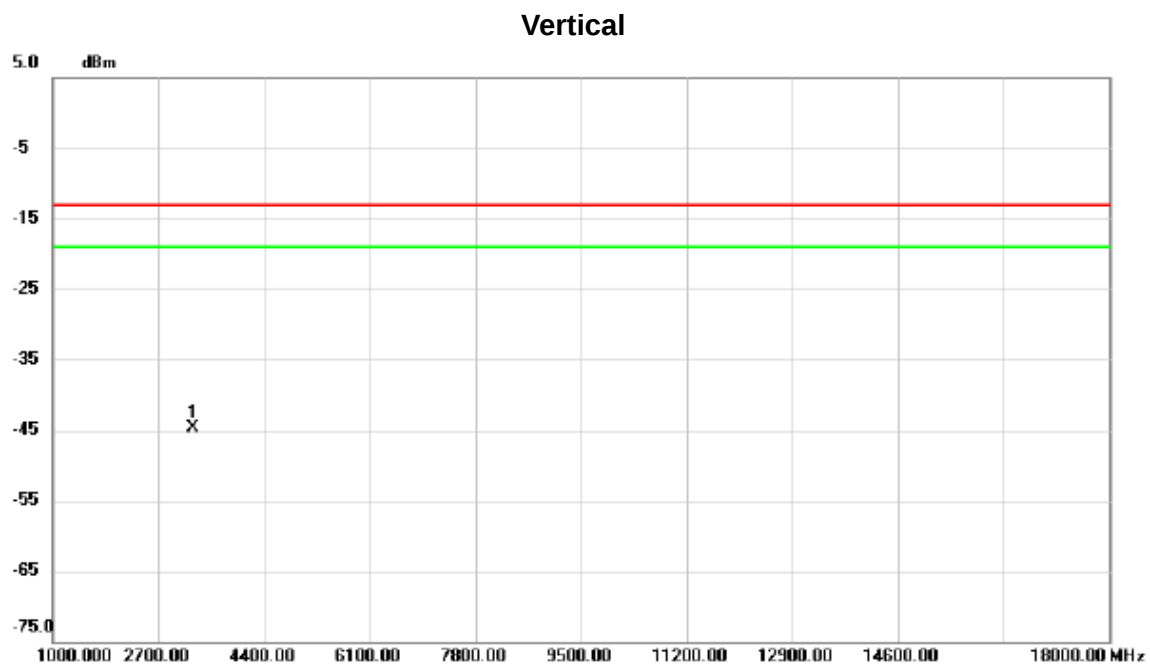
Test Mode: LTE Band 26_1.4M

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	3260.000	-46.97	-4.01	-50.98	-13.00	-37.98	peak	

Test Mode:	LTE Band 26_15M
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3263.000	-40.78	-4.01	-44.79	-13.00	-31.79	peak	

Test Mode: LTE Band 26_15M

Horizontal

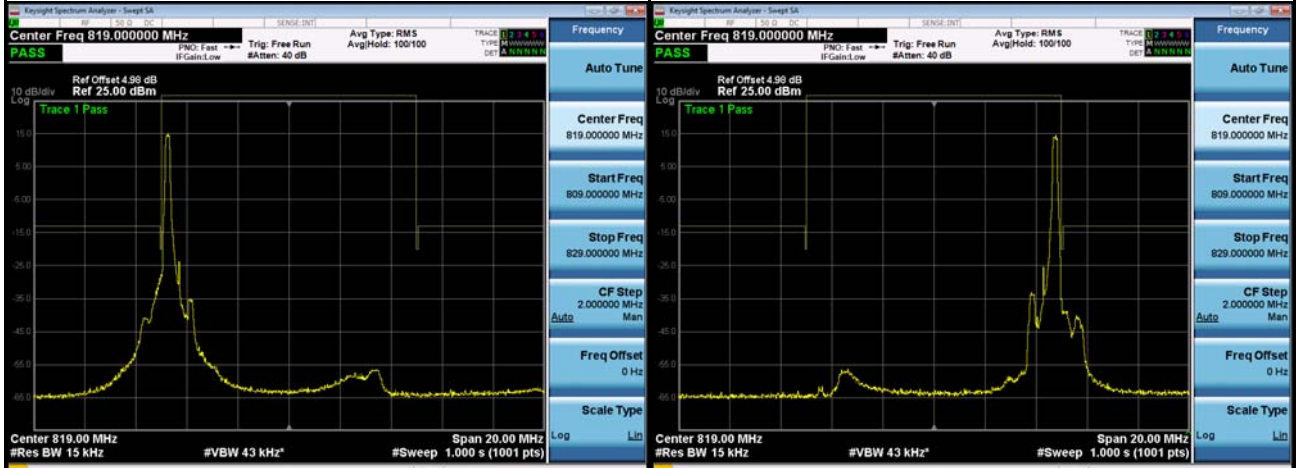


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	3263.000	-45.89	-4.01	-49.90	-13.00	-36.90	peak	

APPENDIX G - EMISSION MASK

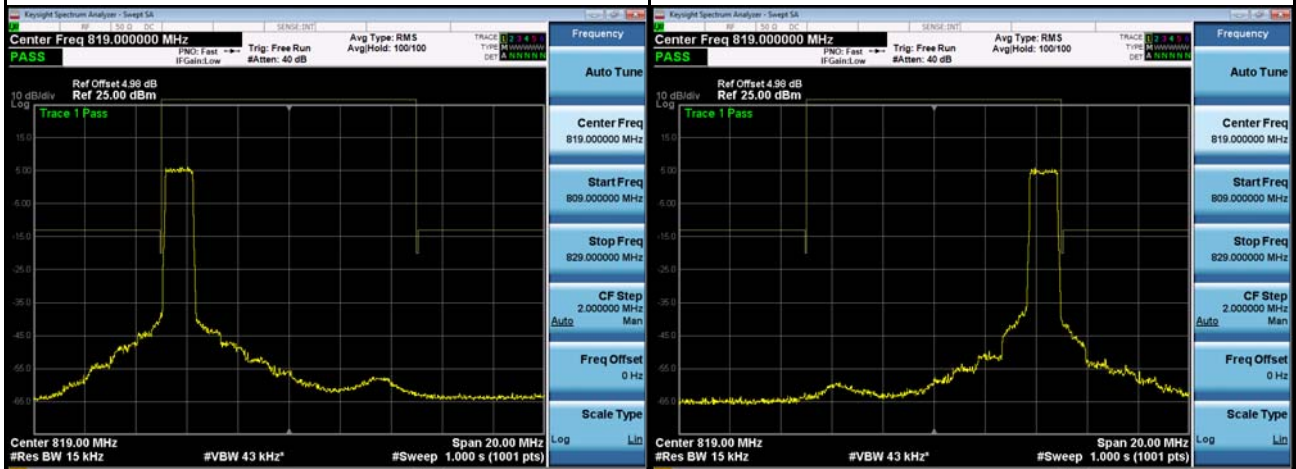
LTE Band 26_1.4M

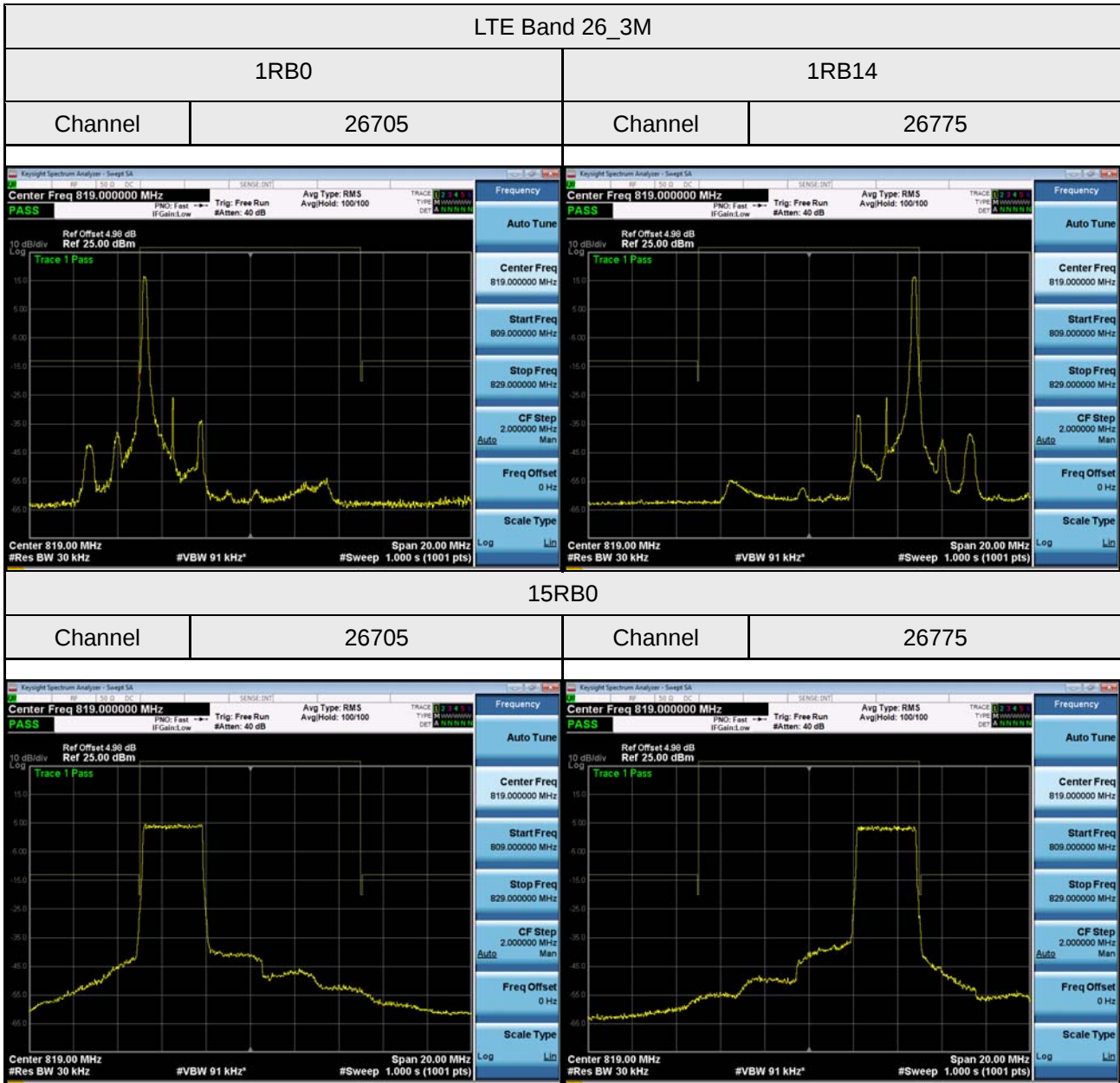
1RB0		1RB5	
Channel	26697	Channel	26783



6RB0

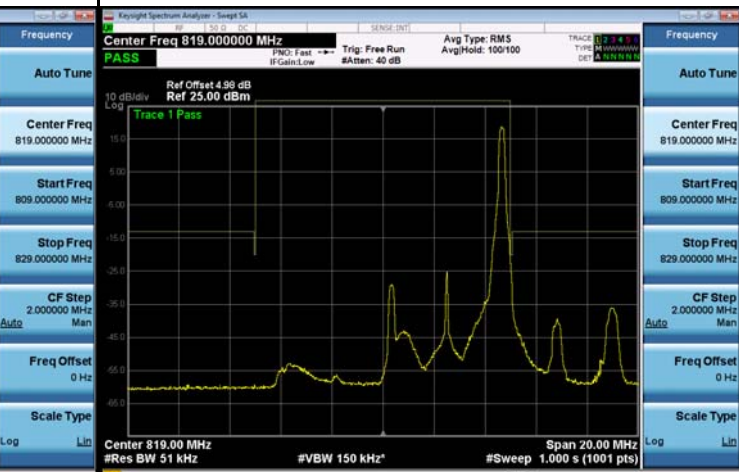
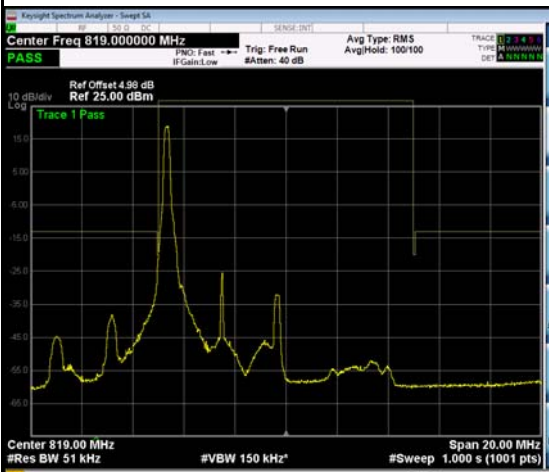
26697		26783	
Channel	26697	Channel	26783





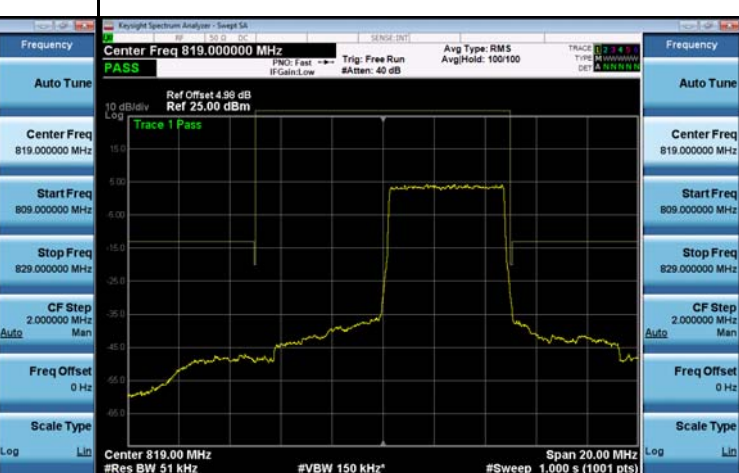
LTE Band 26_5M

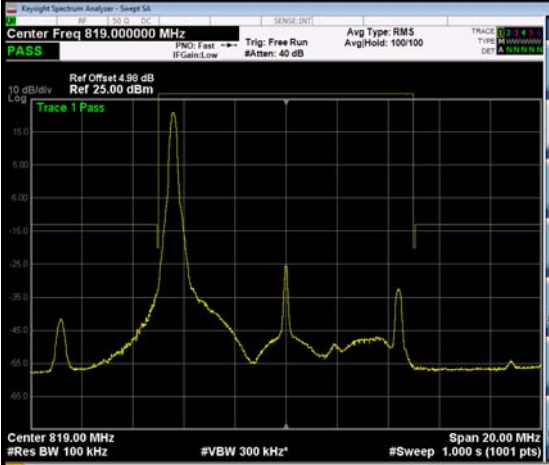
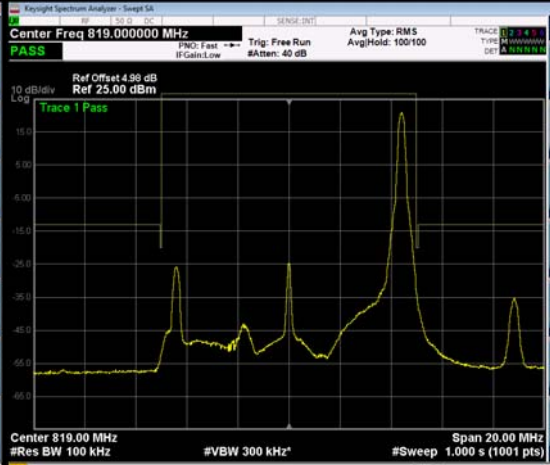
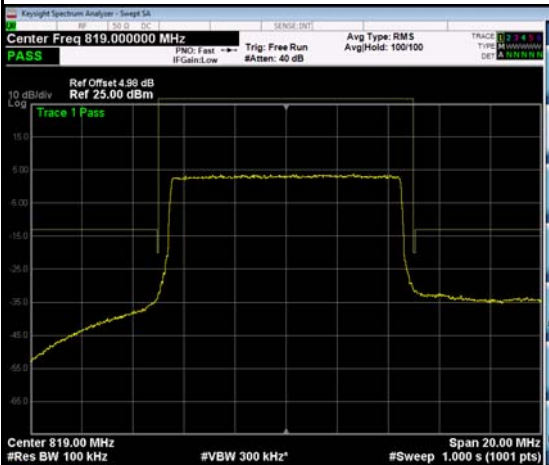
1RB0		1RB24	
Channel	26715	Channel	26765



25RB0

Channel	26715	Channel	26765
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LTE Band 26_10M			
1RB0		1RB50	
Channel	26740	Channel	26740
			
50RB0		-	
Channel	26740	-	-
		-	

APPENDIX H - FREQUENCY STABILITY

Test Mode:	LTE Band 26_CH26740_1.4M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.91	0.003553114	2.5
-20	3.58	0.004371184	2.5
-10	-5.14	0.006275946	2.5
0	-3.21	0.003919414	2.5
10	4.61	0.005628816	2.5
20	-5.33	0.006507937	2.5
30	4.52	0.005518926	2.5
40	-2.49	0.003040293	2.5
50	-4.16	0.005079365	2.5
Max. Deviation (ppm)	5.33	0.006507937	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	1.05	0.001282051	2.5
7.68	-2.00	0.002442002	2.5
6.5	3.81	0.004652015	2.5
Max. Deviation (ppm)	3.81	0.004652015	2.5

Test Mode:	LTE Band 26_CH26740_3M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.78	0.003394383	2.5
-20	-3.43	0.004188034	2.5
-10	5.57	0.006800977	2.5
0	5.36	0.006544567	2.5
10	-2.39	0.002918193	2.5
20	-3.18	0.003882784	2.5
30	-5.69	0.006947497	2.5
40	4.12	0.005030525	2.5
50	-2.38	0.002905983	2.5
Max. Deviation (ppm)	5.69	0.006947497	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	4.88	0.005958486	2.5
7.68	-2.54	0.003101343	2.5
6.5	2.81	0.003431013	2.5
Max. Deviation (ppm)	4.88	0.005958486	2.5

Test Mode:	LTE Band 26_CH26740_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-6.14	0.007496947	2.5
-20	5.69	0.006947497	2.5
-10	-4.88	0.005958486	2.5
0	6.77	0.008266178	2.5
10	6.91	0.008437118	2.5
20	-1.25	0.001526252	2.5
30	3.49	0.004261294	2.5
40	-3.91	0.004774115	2.5
50	-2.72	0.003321123	2.5
Max. Deviation (ppm)	6.91	0.008437118	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	-3.27	0.003992674	2.5
7.68	-4.31	0.005262515	2.5
6.5	1.55	0.001892552	2.5
Max. Deviation (ppm)	4.31	0.005262515	2.5

Test Mode:	LTE Band 26_CH26740_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-2.99	0.003650794	2.5
-20	-8.19	0.010000000	2.5
-10	4.37	0.005335775	2.5
0	3.56	0.004346764	2.5
10	7.54	0.009206349	2.5
20	-1.54	0.001880342	2.5
30	3.21	0.003919414	2.5
40	6.27	0.007655678	2.5
50	1.41	0.001721612	2.5
Max. Deviation (ppm)	8.19	0.010000000	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
8.8	2.72	0.003321123	2.5
7.68	-4.02	0.004908425	2.5
6.5	-4.81	0.005873016	2.5
Max. Deviation (ppm)	4.81	0.005873016	2.5