

FCC Radio Test Report

FCC ID: 2AYGCCHL-LX3

This report concerns: Original Grant

Project No. : 2012C016
Equipment : Smart Phone
Brand Name : HONOR
Test Model : CHL-LX3
Series Model : N/A
Applicant : Honor Device Co., Ltd.
Address : Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
Manufacturer : Honor Device Co., Ltd.
Address : Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
Date of Receipt : Dec. 04, 2020
Date of Test : Dec. 05, 2020 ~ Feb. 05, 2021
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Report Version : R00
Test Sample : Engineering Sample No.: DG20201210166 for conducted, DG20201210169 for radiated.
Standard(s) : 47 CFR FCC Part 90 Subpart S
47 CFR FCC Part 2
ANSI/TIA/EIA-603-E-2016
FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Vegeta Li

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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.

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BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

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.

Please note that the measurement uncertainty is provided for informational purpose only and is not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Mar. 01, 2021

1. 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	Remark
2.1046 & 90.635 (b)	Effective Radiated Power	PASS	-----
2.1049 & 90.209	Occupied Bandwidth	PASS	-----
2.1053 & 90.669	Conducted Spurious Emissions	PASS	-----
2.1053 & 90.669	Radiated Spurious Emissions	PASS	-----
2.1053 & 90.691	Mask Measurements	PASS	-----
-	Peak To Average Ratio	PASS	Record Only
2.1055 & 90.213	Frequency Stability	PASS	-----

Note:

(1) "N/A" denotes test is not applicable in this test report.

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m)	CISPR	9KHz ~ 30MHz	V	3.79
		9KHz ~ 30MHz	H	3.57
		30MHz ~ 200MHz	V	4.88
		30MHz ~ 200MHz	H	4.14
		200MHz ~ 1,000MHz	V	4.62
		200MHz ~ 1,000MHz	H	4.80

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	4.58
		6GHz ~ 18GHz	5.18

B. Other Measurement:

Parameter	Uncertainty
Spectrum Bandwidth	±3.8 %
Maximum Output Power	±0.95 dB
Power Spectral Density	±0.86 dB
Frequency Stability	±0.16 dB
Temperature	±0.08 °C
Time	±0.58 %
Supply voltages	±0.3 %

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
Output Power & ERP	23.1°C	47%	DC 3.87V	Tate Liu
Occupied Bandwidth	23.1°C	47%	DC 3.87V	Tate Liu
Conducted Spurious Emissions	23.1°C	47%	DC 3.87V	Tate Liu
Radiated Spurious Emissions	26°C	52%	AC 120V/60Hz	Jakyri Wen
Band Edge	23.1°C	47%	DC 3.87V	Tate Liu
Peak to Average Ratio	23.1°C	47%	DC 3.87V	Tate Liu
Frequency Stability	Normal & Extreme	47%	Normal & Extreme	Tate Liu

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Phone			
Brand Name	HONOR			
Test Model	CHL-LX3			
Series Model	N/A			
Model Difference(s)	N/A			
Hardware Version	HL3CHLM			
Software Version	5.0.0.80(C900E76R1P4)			
Power Source	1# DC voltage supplied from AC adapter. 2# Supplied from battery. 3# Supplied from USB port.			
Power Rating	1# (1) I/P: 100-240V ~ 50/60Hz, 1.2A O/P: 5V === 2A OR 9V === 2V OR 10V === 4A (2) I/P: 100-240V ~ 50/60Hz, 0.75A O/P: 5V === 2A OR 9V === 2V OR 10V === 2.25A 2# DC 3.87V, 3900mAh 3# DC 5V			
IEMI No.	Radiated	863891050002714		
	Conducted	863891050003043		
Modulation Type	LTE	UL: QPSK, 16QAM DL: QPSK, 16QAM, 64QAM		
Max. ERP	LTE	Channel Bandwidth (MHz)	QPSK (dBm)	16QAM (dBm)
		1.4	21.28	20.60
	Band 26	3	21.34	20.40
		5	21.29	20.41
		10	21.33	20.20

Note:

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

2. Channel List:

LTE Band 26					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	1.4	26697	814.7	8697	859.7
	3	26705	815.5	8705	860.5
	5	26715	816.5	8715	861.5
Mid Range	1.4/3/5/10	26740	819	8740	864
High Range	1.4	26783	823.3	8783	868.3
	3	26775	822.5	8775	867.5
	5	26765	821.5	8765	866.5

3 Table for Filed Antenna:

Main Antenna

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
N/A	N/A	Internal	N/A	-1.6	LTE Band 26

Second Antenna

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
N/A	N/A	Internal	N/A	-1.4	LTE Band 26

Note: The antenna gain is provided by the manufacturer.

4. The EUT contains following accessory devices:

Items	Trademark / Manufacturer / Factory	Model Name	Description
Adapter	Honor Device Co., Ltd.	HW-100400E01 HW-100400U01 HW-100400B01 HW-100400A01	I/P: 100-240V ~50/60Hz, 1.2A O/P: 5V \equiv 2A OR 9V \equiv 2V OR 10V \equiv 4A
		HW-100400E02 HW-100400U02 HW-100400B02 HW-100400A02	
	Honor Device Co., Ltd. (Manufacturer: BYD / Huntkey / Phitek)	HW-100225E00	I/P: 100-240V ~50/60Hz, 0.75A O/P: 5V \equiv 2A OR 9V \equiv 2V OR 10V \equiv 2.25A
Honor Device Co., Ltd. (Manufacturer: BYD / Huntkey)	HW-100225U00 HW-100225B00 HW-100225A00		
Rechargeable Li-ion Battery	Honor Device Co., Ltd. (Manufacturer: Sunwoda / Desay / SCUD)	HB446589EFW	DC 3.87V, 3900mAh
	Honor Device Co., Ltd. (Manufacturer: Sunwoda / Desay / SCUD / NVT)	HB446588EFW	
Earphone/ Headset	Jiangxi Lianchuang Hongsheng Electronic Co., LTD.	MEND1532B528A11	/
	BOLUO COUNTY QUANCHENG ELECTRONIC CO.,LTD.	1293-3283-3.5mm-339	
	FOXCONN INTERCONNECT TECHNOLOGY LIMITED	EPAB542-2WH05-DH	
Data Cable	NingBo Broad Telecommunication Co., Ltd.	WA0046	/
	Freeport Resources Enterprises Corp.	AU2-CHO006HF	
	MING JI ELECTRONICS CO., LTD.	213-00989-0	
	LUXSHARE PRECISION INDUSTRY CO., LTD.	L99UC138-CS-H	
	Freeport Resources Enterprises(JIANGXI) CO., LTD	18-93C2CHO-001HF	
	NingBo Broad Telecommunication Co., Ltd.	WA0020	
	LUXSHARE PRECISION INDUSTRY CO., LTD.	L99UC131-CS-H	
	MING JI ELECTRONICS CO., LTD.	203-1572-0	
	FUYU ELECTRONICAL TECHNOLOGY(HUAIAN)CO., LTD.	CUDU01B-HC295-EH	

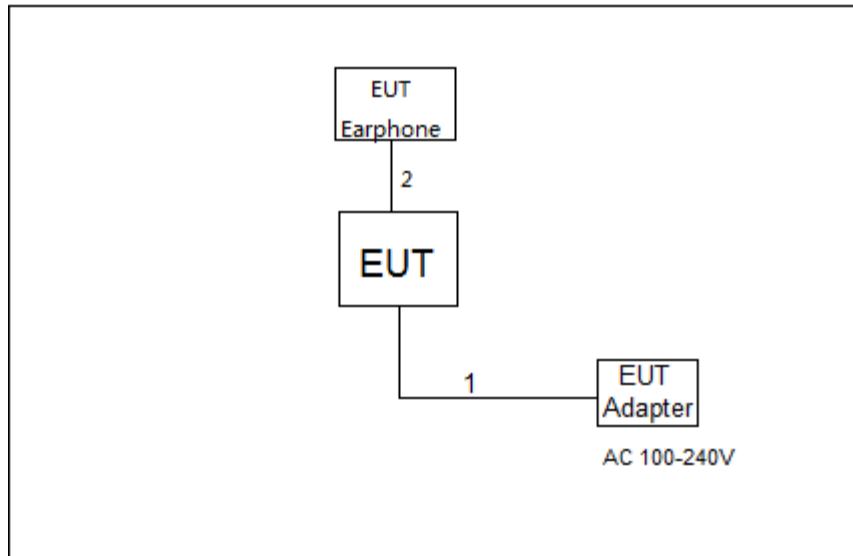
*Adapter HW-100400E01, HW-100400U01, HW-100400B01 and HW-100400A01 have same board.
Adapter HW-100400E02, HW-100400U02, HW-100400B02 and HW-100400A02 have same board.

2.2 DESCRIPTION OF TEST MODES

Following mode(s) is (were) found to be the worst case(s) and selected for the final test.

LTE BAND 26 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & ERP	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	1RB/3RB/6RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	1RB/8RB/15RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	1RB/12RB/25RB
	26740	26740	10MHz	QPSK, 16QAM	1RB/25RB/50RB
Occupied Bandwidth	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	6RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	15RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	25RB
	26740	26740	10MHz	QPSK, 16QAM	1RB/25RB/50RB
Conducted Spurious Emissions	26697 to 26783	26740	1.4MHz	QPSK	1RB
	26705 to 26775	26740	5MHz	QPSK	1RB
	26715 to 26765	26740	10MHz	QPSK	1RB
Radiated Spurious Emissions	26697 to 26783	26740	1.4MHz	QPSK	1RB
	26705 to 26775	26740	5MHz	QPSK	1RB
	26715 to 26765	26740	10MHz	QPSK	1RB
Mask	26697 to 26783	26697, 26783	1.4MHz	QPSK	1RB 6RB
	26705 to 26775	26705, 26775	3MHz	QPSK	1RB 15RB
	26715 to 26765	26715, 26765	5MHz	QPSK	1RB 25RB
	26740	26740	10MHz	QPSK	1RB
					50RB
Peak To Average Ratio	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	1RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	1RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	1RB
	26740	26740	10MHz	QPSK, 16QAM	1RB
Frequency Stability	26697 to 26783	26740	1.4MHz	QPSK	1RB
	26705 to 26775	26740	3MHz	QPSK	1RB
	26715 to 26765	26740	5MHz	QPSK	1RB
	26740	26740	10MHz	QPSK	1RB

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



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.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	USB Cable	YES	NO	1m
2	Audio Cable	NO	NO	1.1m

3. TEST RESULT

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMIT

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

3.1.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.0.

ERP:

$EIRP = \text{Output Power} + \text{Antenan gain}$

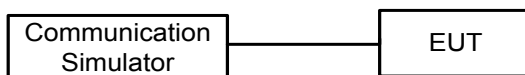
$ERP = EIPR - 2.15\text{dBi}$.

Output 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.

3.1.3 TESTSETUP LAYOUT

Output Power Measurement



3.1.4 TEST DEVIATION

No deviation

3.1.5 TEST RESULTS

Please refer to the APPENDIX A.

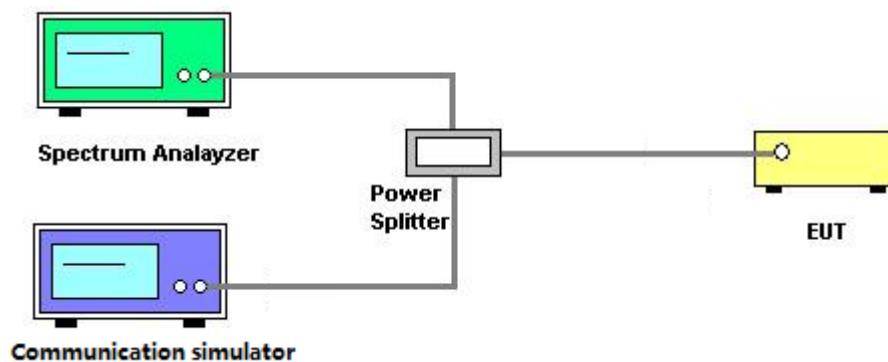
3.2 OCCUPIED BANDWIDTH MEASUREMENT

3.2.1 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 4.0.

1. 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.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. $RBW=(1\% \sim 5\%)*EBW$
 $VBW \geq 3*RBW$
4. Set spectrum analyzer with RMS detector.

3.2.2 TEST SETUP LAYOUT



3.2.3 TEST DEVIATION

No deviation

3.2.4 TEST RESULTS

Please refer to the APPENDIX B.

3.3 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

3.3.1 LIMIT

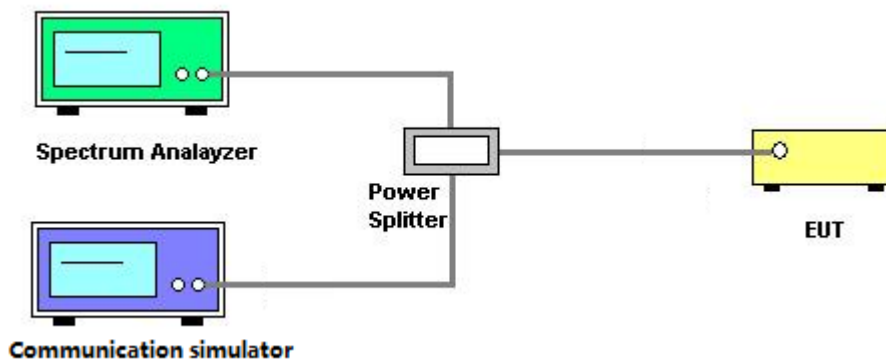
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

3.3.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.0.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Set $RBW \geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with RMS detector.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.3.3 TESTSETUP LAYOUT



3.3.4 TESTDEVIATION

No deviation

3.3.5 TEST RESULTS

Please refer to the APPENDIX C.

3.4 RADIATED SPURIOUS EMISSIONS MEASUREMENT

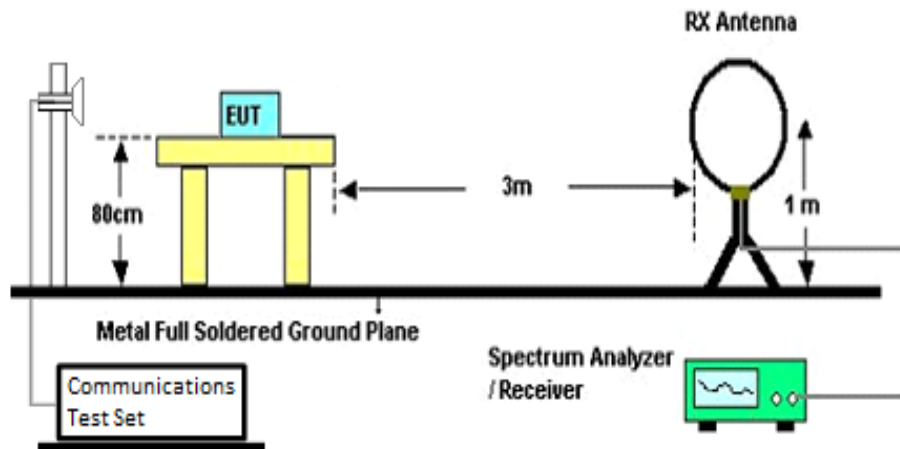
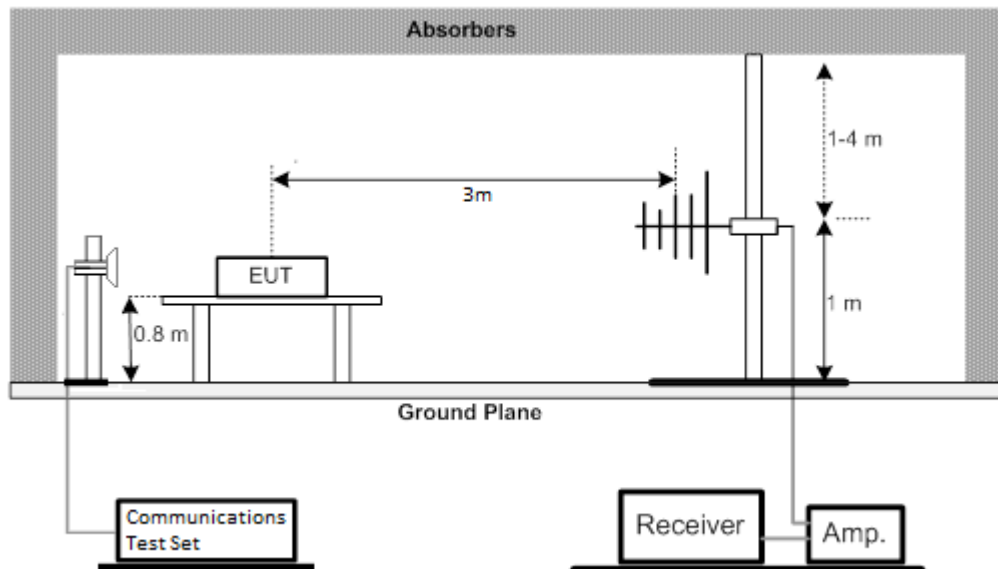
3.4.1 LIMIT

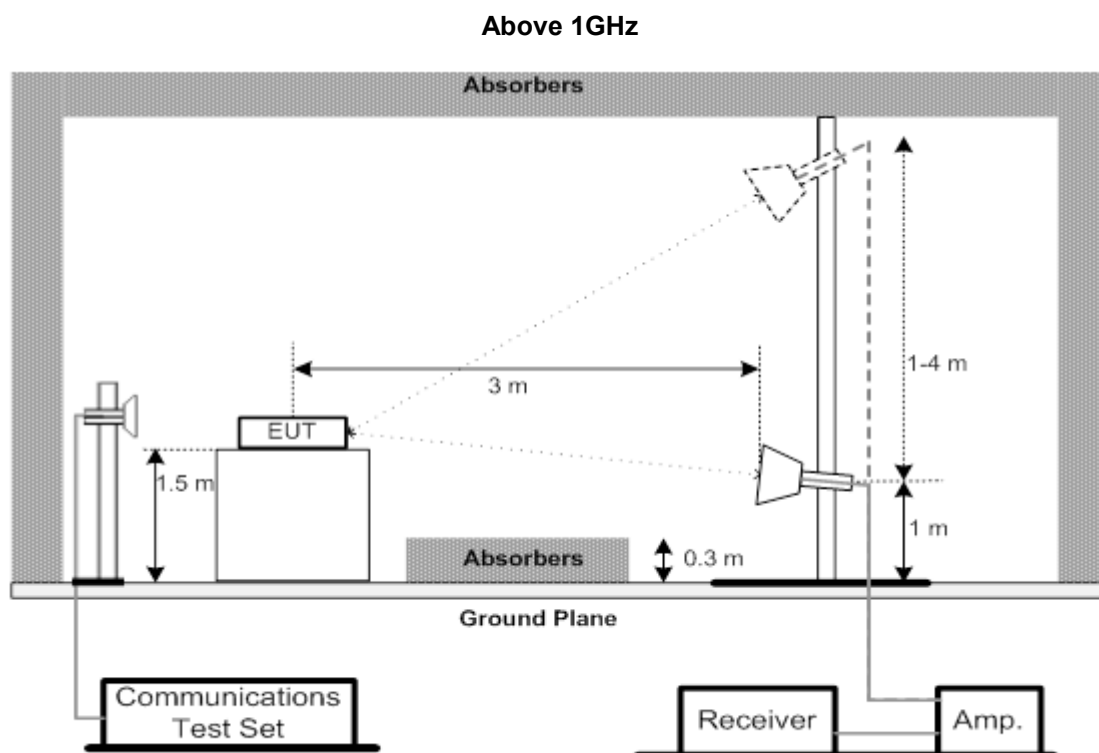
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

3.4.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 5.8.

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. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn.}$
4. ERP can be calculated form EIRP by subtracting the gain of dipole, $ERP = EIPR - 2.15\text{dBi.}$
5. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

3.4.3 TEST SETUP LAYOUT**Below 30MHz****30MHz to 1000MHz**



3.4.4 TEST DEVIATION

No deviation

3.4.5 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the APPENDIX D.

3.4.6 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the APPENDIX E.

3.4.7 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the APPENDIX F.

3.5 MASK MEASUREMENTS

3.5.1 LIMIT

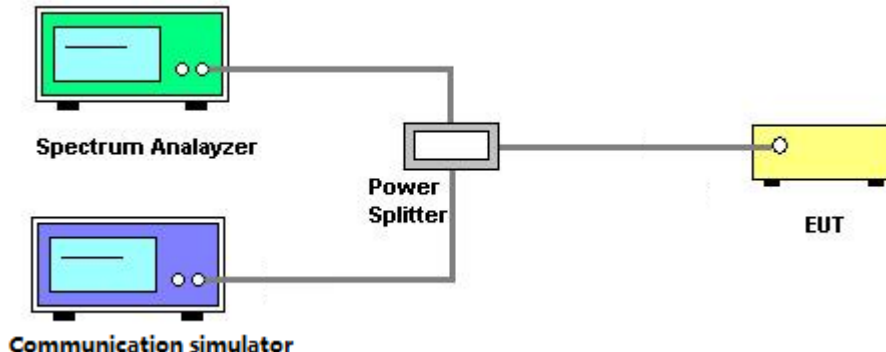
According to FCC part 90.691 shall be tested the emission mask. For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \text{ Log}_{10}(f/6.1)$ decibels or $50+10\text{Log}_{10}(P)$ 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. 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 $43 + 10\text{Log}_{10}(P)$ 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.

3.5.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.0.

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.
For Section 90.691(a) compliance testing, use RBW = 300 Hz for offsets less than 37.5 kHz from a channel edge; RBW = 100 kHz for offsets greater than 37.5 kHz is allowed.
3. Record the max trace plot into the test report.

3.5.3 TESTSETUP LAYOUT



3.5.4 TESTDEVIATION

No deviation

3.5.5 TEST RESULTS

Please refer to the APPENDIX G.

3.6 PEAK TO AVERAGE RATIO MEASUREMENT

3.6.1 LIMIT

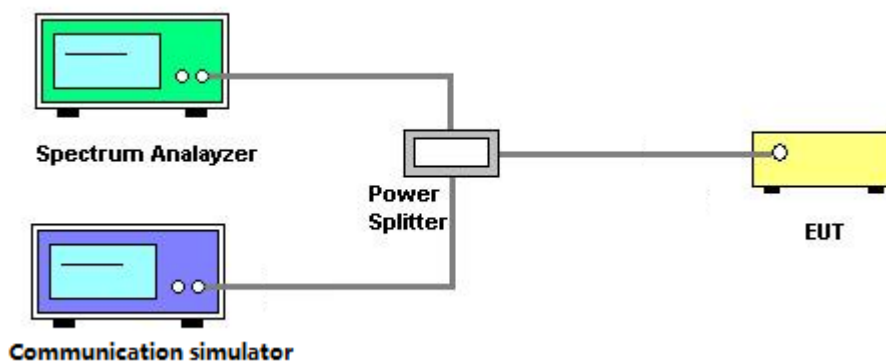
In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.6.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 5.7.

1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

3.6.3 TEST SETUP LAYOUT



3.6.4 TEST DEVIATION

No deviation

3.6.5 TEST RESULTS

Please refer to the APPENDIX H.

3.7 FREQUENCY STABILITY MEASUREMENT

3.7.1 LIMIT

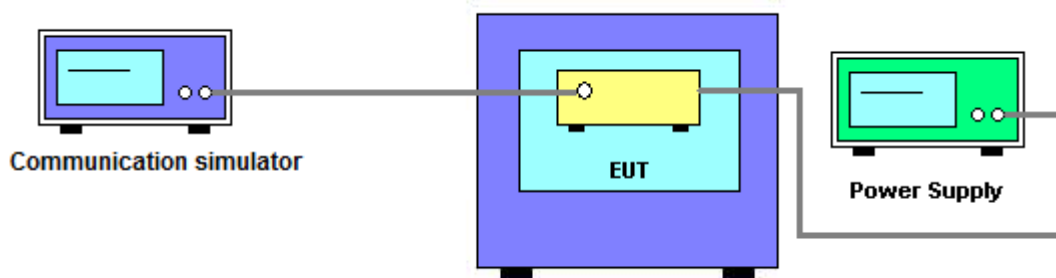
± 1.5 ppm is for base and fixed station. ± 2.5 ppm is for mobile station.

3.7.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 9.0.

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.

3.7.3 TESTSETUP LAYOUT



3.7.4 TESTDEVIATION

No deviation

3.7.5 TEST RESULTS

Please refer to the APPENDIX I.

5. LIST OF MEASUREMENT EQUIPMENTS

Radiated Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2021
2	Amplifier	Agilent	8449B	3008A02334	Feb. 28, 2022
3	HighPass Filter	Wairwright Instruments Gmbh	WHK 1.5/15G-10ST	11	Feb. 27, 2022
4	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 1710/1785-1690/1805-6 0/12SS	38	Feb. 27, 2022
5	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 824/849-810/863-60/9S S	7	Feb. 27, 2022
6	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 880/915-860/935-60/9S S	14	Feb. 27, 2022
7	Band Reject Filter	Wairwright Instruments Gmbh	WRCG 1850/1910-1830/1930-6 0/10SS	17	Feb. 27, 2022
8	HighPass Filter	Wairwright Instruments Gmbh	WHK3.1/18G-10SS	24	Feb. 27, 2022
9	Wireless Communication Test SET	Agilent	E5515C	MY48364183	Feb. 28, 2022
10	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 07, 2021
11	Receiver	Agilent	N9038A	MY52130039	Jul. 25, 2021
12	wideband radio communication tester	R&S	CMW500	152372	Feb. 27, 2022
13	High pass filter	KANGMAIWEI	ZHPF-M3-12.75G-3869	B2015073763	Feb. 07, 2022
14	High pass filter	KANGMAIWEI	ZHPF-M1000-4000-1	B2015073762	Feb. 07, 2022
15	High pass filter	KANGMAIWEI	ZHPF-M6-186-1727	B2015073764	Feb. 07, 2022
16	Cable	emci	LMR-400(30MHz-1GHz) (8m+5m)	N/A	May. 22, 2021
17	Cable	mitron	B10-01-01-12M	18072744	Jun. 28, 2021
18	Controller	ETS-Lindgren	2090	N/A	N/A
19	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
20	Loop Antenna	EM	EM-6876-1	230	Apr. 16, 2021
21	Double Ridged Guide Antenna	ETS	3115	75846	Mar. 19, 2021
22	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jul. 07, 2021

Conducted Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Wireless Communication Test SET	Agilent	E5515C	MY48364183	Feb. 28, 2022
2	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Feb. 28, 2022
3	POWER SPLITTER	Mini-Circuits	ZFRSC-123-S+	331000910-1	Feb. 27, 2022
4	wideband radio communication tester	R&S	CMW500	152372	Feb. 27, 2022

Frequency Stability Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Wireless Communication Test SET	Agilent	E5515C	MY48364183	Feb. 28, 2022
2*	Multi-output DC Power Supply	GW Instek	GPC-3030DN	EK880675	Jul. 25, 2023
3	POWER SPLITTER	Mini-Circuits	ZFRSC-123-S+	331000910-1	Feb. 27, 2022
4	wideband radio communication tester	R&S	CMW500	152372	Feb. 27, 2022
5	Const Temp,& Humidity Chamber	Bell	BTH-50C	20170306001	Feb. 27, 2022

Remark: "N/A" denotes no model name, serial no. or calibration specified.
 Except * item, all calibration period of equipment list is one year.
 "*" calibration period of equipment list is three year.

APPENDIX A - OUTPUT POWER

Output Power for Main Antenna (dBm):

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26697CH	26740CH	26783CH
				814.7MHz	819MHz	823.3MHz
26 / 1.4M	QPSK	1	0	24.23	24.19	24.10
		1	2	24.33	24.29	24.22
		1	5	24.21	24.18	24.09
		3	0	24.27	24.26	24.21
		3	1	24.32	24.32	24.26
		3	2	24.24	24.22	24.27
	16QAM	6	0	23.24	23.24	23.22
		1	0	23.27	23.53	23.25
		1	2	23.38	23.63	23.32
		1	5	23.26	23.52	23.21
		3	0	23.27	23.42	23.42
		3	1	23.29	23.47	23.50
		3	2	23.25	23.44	23.42
		6	0	22.38	22.16	22.38

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26705CH	26740CH	26775CH
				815.5MHz	819MHz	822.5MHz
26 / 3M	QPSK	1	0	24.22	24.25	24.18
		1	7	24.36	24.37	24.27
		1	14	24.21	24.21	24.15
		8	0	23.24	23.22	23.21
		8	4	23.27	23.24	23.21
		8	7	23.22	23.16	23.14
		15	0	23.20	23.15	23.16
	16QAM	1	0	23.14	23.56	23.26
		1	7	23.18	23.67	23.39
		1	14	23.09	23.55	23.20
		8	0	22.32	22.30	22.26
		8	4	22.36	22.34	22.28
		8	7	22.28	22.25	22.20
		15	0	22.23	22.24	22.15

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26715CH	26740CH	26765CH
				816.5MHz	819MHz	821.5MHz
26 / 5M	QPSK	1	0	24.25	24.11	24.15
		1	13	24.34	24.22	24.26
		1	24	24.19	24.10	24.16
		12	0	23.16	23.18	23.21
		12	6	23.22	23.24	23.22
		12	11	23.20	23.17	23.20
	16QAM	25	0	23.16	23.15	23.17
		1	0	23.29	23.59	23.21
		1	13	23.34	23.72	23.32
		1	24	23.22	23.62	23.27
		12	0	22.20	22.31	22.28
		12	6	22.28	22.37	22.30
		12	11	22.26	22.33	22.26
		25	0	22.17	22.26	22.18

LTE Band / BW	Modulation	RB Size	RB Offset	Mid CH
				26740CH
				819MHz
26 / 10M	QPSK	1	0	24.22
		1	25	24.34
		1	49	24.15
		25	0	23.20
		25	13	23.22
		25	25	23.11
	16QAM	50	0	23.17
		1	0	23.14
		1	25	23.22
		1	49	23.12
		25	0	22.24
		25	13	22.23
		25	25	22.18
		50	0	22.17

ERP for Main Antenna (dBm):

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26697CH	26740CH	26783CH
				814.7MHz	819MHz	823.3MHz
26 / 1.4M	QPSK	1	0	20.48	20.44	20.35
		1	2	20.58	20.54	20.47
		1	5	20.46	20.43	20.34
		3	0	20.52	20.51	20.46
		3	1	20.57	20.57	20.51
		3	2	20.49	20.47	20.52
		6	0	19.49	19.49	19.47
	16QAM	1	0	19.52	19.78	19.50
		1	2	19.63	19.88	19.57
		1	5	19.51	19.77	19.46
		3	0	19.52	19.67	19.67
		3	1	19.54	19.72	19.75
		3	2	19.50	19.69	19.67
		6	0	18.63	18.41	18.63

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26705CH	26740CH	26775CH
				815.5MHz	819MHz	822.5MHz
26 / 3M	QPSK	1	0	20.47	20.50	20.43
		1	7	20.61	20.62	20.52
		1	14	20.46	20.46	20.40
		8	0	19.49	19.47	19.46
		8	4	19.52	19.49	19.46
		8	7	19.47	19.41	19.39
		15	0	19.45	19.40	19.41
	16QAM	1	0	19.39	19.81	19.51
		1	7	19.43	19.92	19.64
		1	14	19.34	19.80	19.45
		8	0	18.57	18.55	18.51
		8	4	18.61	18.59	18.53
		8	7	18.53	18.50	18.45
		15	0	18.48	18.49	18.40

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26715CH	26740CH	26765CH
				816.5MHz	819MHz	821.5MHz
26 / 5M	QPSK	1	0	20.50	20.36	20.40
		1	13	20.59	20.47	20.51
		1	24	20.44	20.35	20.41
		12	0	19.41	19.43	19.46
		12	6	19.47	19.49	19.47
		12	11	19.45	19.42	19.45
		25	0	19.41	19.40	19.42
	16QAM	1	0	19.54	19.84	19.46
		1	13	19.59	19.97	19.57
		1	24	19.47	19.87	19.52
		12	0	18.45	18.56	18.53
		12	6	18.53	18.62	18.55
		12	11	18.51	18.58	18.51
		25	0	18.42	18.51	18.43

LTE Band / BW	Modulation	RB Size	RB Offset	Mid CH
				26740CH
				819MHz
26 / 10M	QPSK	1	0	20.47
		1	25	20.59
		1	49	20.40
		25	0	19.45
		25	13	19.47
		25	25	19.36
		50	0	19.42
	16QAM	1	0	19.39
		1	25	19.47
		1	49	19.37
		25	0	18.49
		25	13	18.48
		25	25	18.43
		50	0	18.42

Output Power for Second Antenna (dBm):

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26697CH	26740CH	26783CH
				814.7MHz	819MHz	823.3MHz
26 / 1.4M	QPSK	1	0	24.66	24.72	24.73
		1	2	24.82	24.83	24.82
		1	5	24.69	24.67	24.70
		3	0	24.77	24.74	24.78
		3	1	24.81	24.79	24.83
		3	2	24.79	24.76	24.76
	16QAM	6	0	23.78	23.74	23.74
		1	0	23.72	23.72	24.08
		1	2	23.83	23.83	24.15
		1	5	23.68	23.73	24.08
		3	0	23.91	23.72	23.93
		3	1	23.97	23.78	23.95
		3	2	23.91	23.75	23.93
		6	0	22.91	22.85	22.65

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26705CH	26740CH	26775CH
				815.5MHz	819MHz	822.5MHz
26 / 3M	QPSK	1	0	24.71	24.78	24.71
		1	7	24.85	24.89	24.81
		1	14	24.72	24.75	24.67
		8	0	23.71	23.74	23.72
		8	4	23.77	23.78	23.75
		8	7	23.72	23.69	23.68
		15	0	23.70	23.69	23.71
	16QAM	1	0	23.67	23.95	23.74
		1	7	23.73	23.88	23.87
		1	14	23.54	23.86	23.71
		8	0	22.84	22.81	22.75
		8	4	22.87	22.83	22.80
		8	7	22.82	22.74	22.71
		15	0	22.74	22.74	22.67

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26715CH	26740CH	26765CH
				816.5MHz	819MHz	821.5MHz
26 / 5M	QPSK	1	0	24.74	24.62	24.65
		1	13	24.84	24.72	24.76
		1	24	24.72	24.63	24.67
		12	0	23.68	23.71	23.73
		12	6	23.76	23.75	23.77
		12	11	23.72	23.70	23.73
		25	0	23.67	23.70	23.72
	16QAM	1	0	23.79	23.86	23.72
		1	13	23.85	23.96	23.84
		1	24	23.75	23.88	23.77
		12	0	22.73	22.85	22.78
		12	6	22.82	22.91	22.83
		12	11	22.77	22.85	22.75
		25	0	22.69	22.78	22.69

LTE Band / BW	Modulation	RB Size	RB Offset	Mid CH
				26740CH
				819MHz
26 / 10M	QPSK	1	0	24.76
		1	25	24.88
		1	49	24.70
		25	0	23.73
		25	13	23.73
		25	25	23.65
		50	0	23.71
	16QAM	1	0	23.66
		1	25	23.75
		1	49	23.66
		25	0	22.77
		25	13	22.79
		25	25	22.68
		50	0	22.72

ERP for Second Antenna (dBm):

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26697CH	26740CH	26783CH
				814.7MHz	819MHz	823.3MHz
26 / 1.4M	QPSK	1	0	21.11	21.17	21.18
		1	2	21.27	21.28	21.27
		1	5	21.14	21.12	21.15
		3	0	21.22	21.19	21.23
		3	1	21.26	21.24	21.28
		3	2	21.24	21.21	21.21
		6	0	20.23	20.19	20.19
	16QAM	1	0	20.17	20.17	20.53
		1	2	20.28	20.28	20.60
		1	5	20.13	20.18	20.53
		3	0	20.36	20.17	20.38
		3	1	20.42	20.23	20.40
		3	2	20.36	20.20	20.38
		6	0	19.36	19.30	19.10

LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26705CH	26740CH	26775CH
				815.5MHz	819MHz	822.5MHz
26 / 3M	QPSK	1	0	21.16	21.23	21.16
		1	7	21.30	21.34	21.26
		1	14	21.17	21.20	21.12
		8	0	20.16	20.19	20.17
		8	4	20.22	20.23	20.20
		8	7	20.17	20.14	20.13
		15	0	20.15	20.14	20.16
	16QAM	1	0	20.12	20.40	20.19
		1	7	20.18	20.33	20.32
		1	14	19.99	20.31	20.16
		8	0	19.29	19.26	19.20
		8	4	19.32	19.28	19.25
		8	7	19.27	19.19	19.16
		15	0	19.19	19.19	19.12

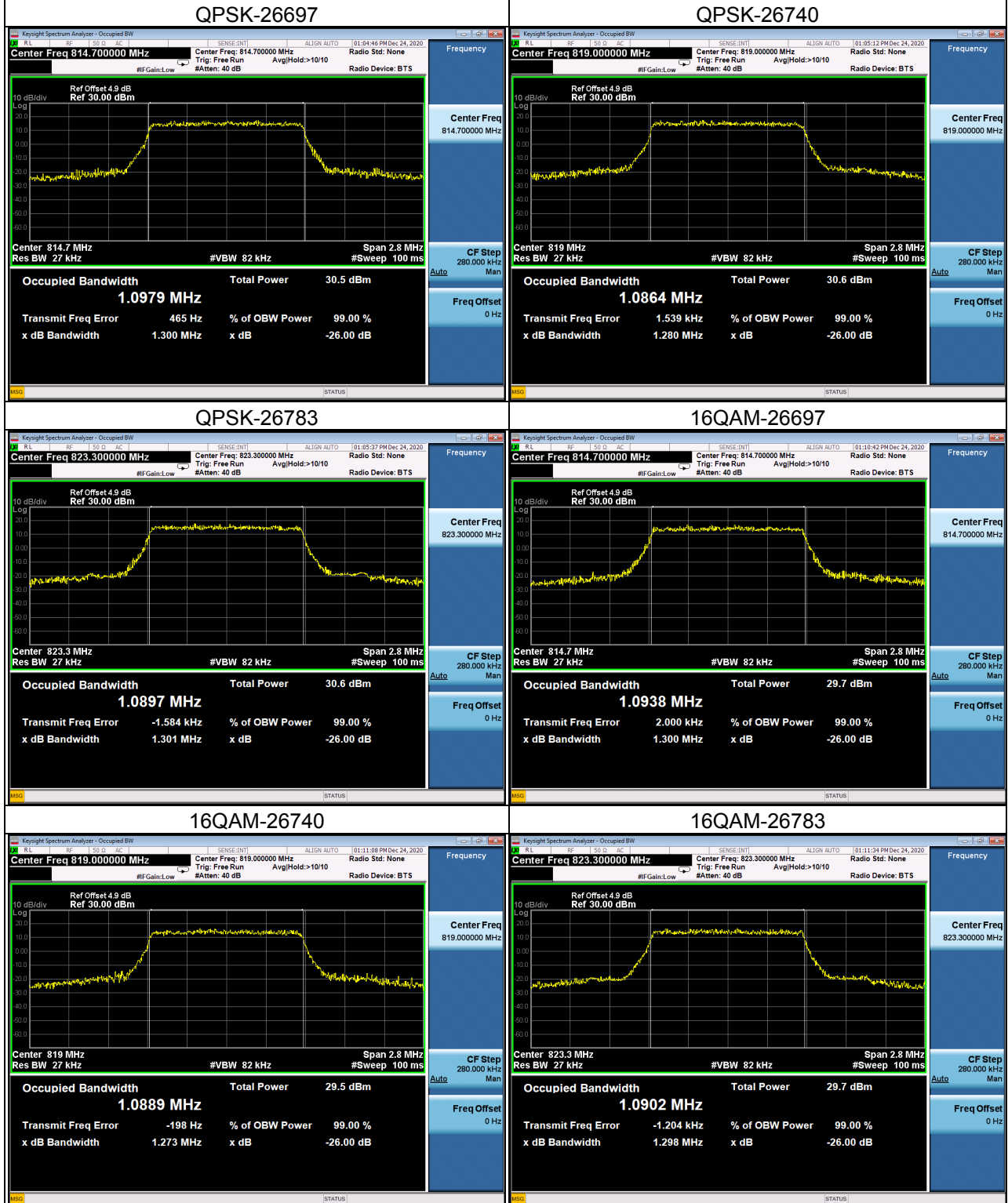
LTE Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH
				26715CH	26740CH	26765CH
				816.5MHz	819MHz	821.5MHz
26 / 5M	QPSK	1	0	21.19	21.07	21.10
		1	13	21.29	21.17	21.21
		1	24	21.17	21.08	21.12
		12	0	20.13	20.16	20.18
		12	6	20.21	20.20	20.22
		12	11	20.17	20.15	20.18
		25	0	20.12	20.15	20.17
	16QAM	1	0	20.24	20.31	20.17
		1	13	20.30	20.41	20.29
		1	24	20.20	20.33	20.22
		12	0	19.18	19.30	19.23
		12	6	19.27	19.36	19.28
		12	11	19.22	19.30	19.20
		25	0	19.14	19.23	19.14

LTE Band / BW	Modulation	RB Size	RB Offset	Mid CH
				26740CH
				819MHz
26 / 10M	QPSK	1	0	21.21
		1	25	21.33
		1	49	21.15
		25	0	20.18
		25	13	20.18
		25	25	20.10
		50	0	20.16
	16QAM	1	0	20.11
		1	25	20.20
		1	49	20.11
		25	0	19.22
		25	13	19.24
		25	25	19.13
		50	0	19.17

APPENDIX B - OCCUPIED BANDWIDTH

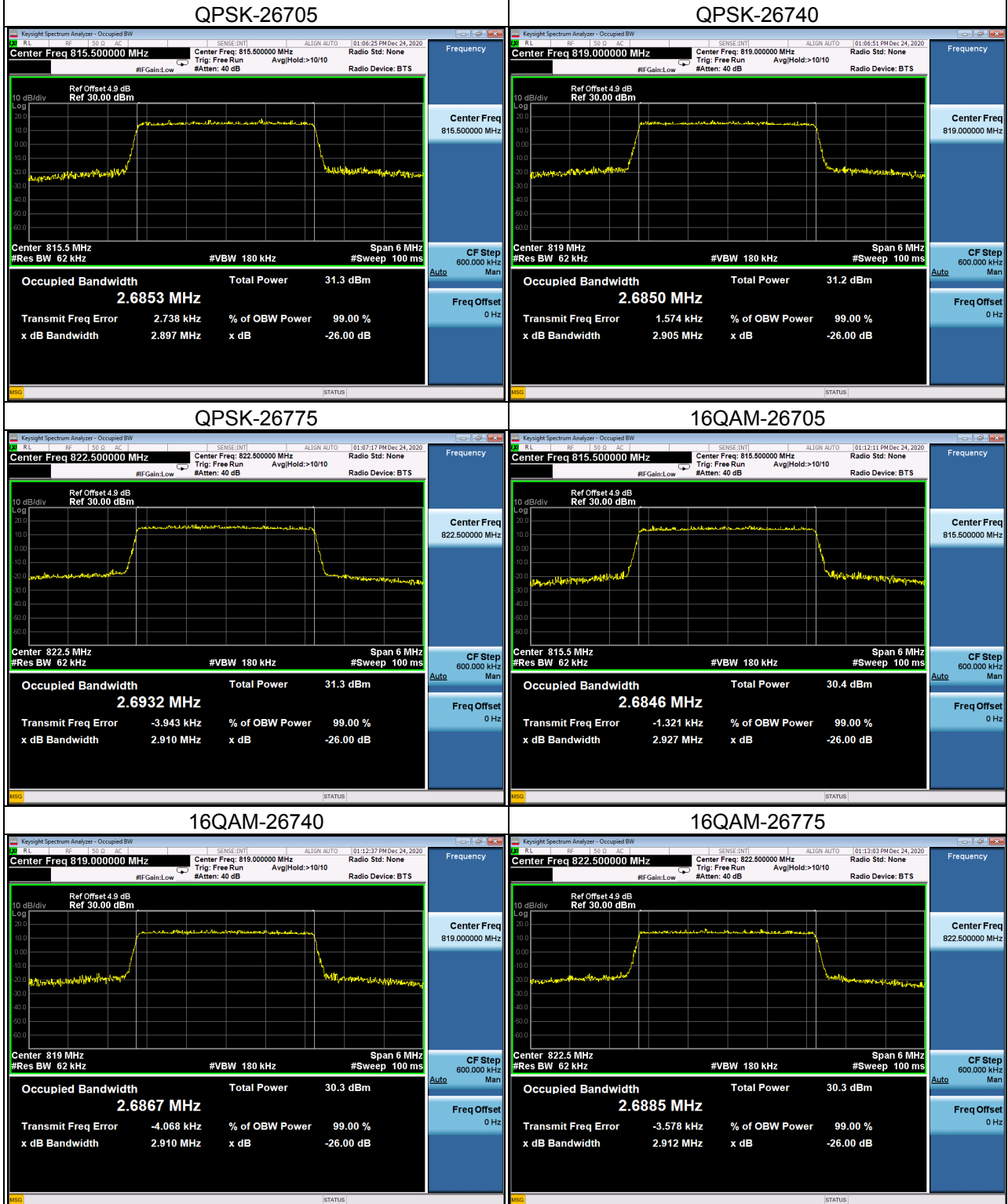
LTE Band 26_1.4M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26697	814.7	1.0979	26697	814.7	1.300
26740	819	1.0864	26740	819	1.280
26783	823.3	1.0897	26783	823.3	1.301
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26697	814.7	1.0938	26697	814.7	1.300
26740	819	1.0889	26740	819	1.273
26783	823.3	1.0902	26783	823.3	1.298

Spectrum Plot



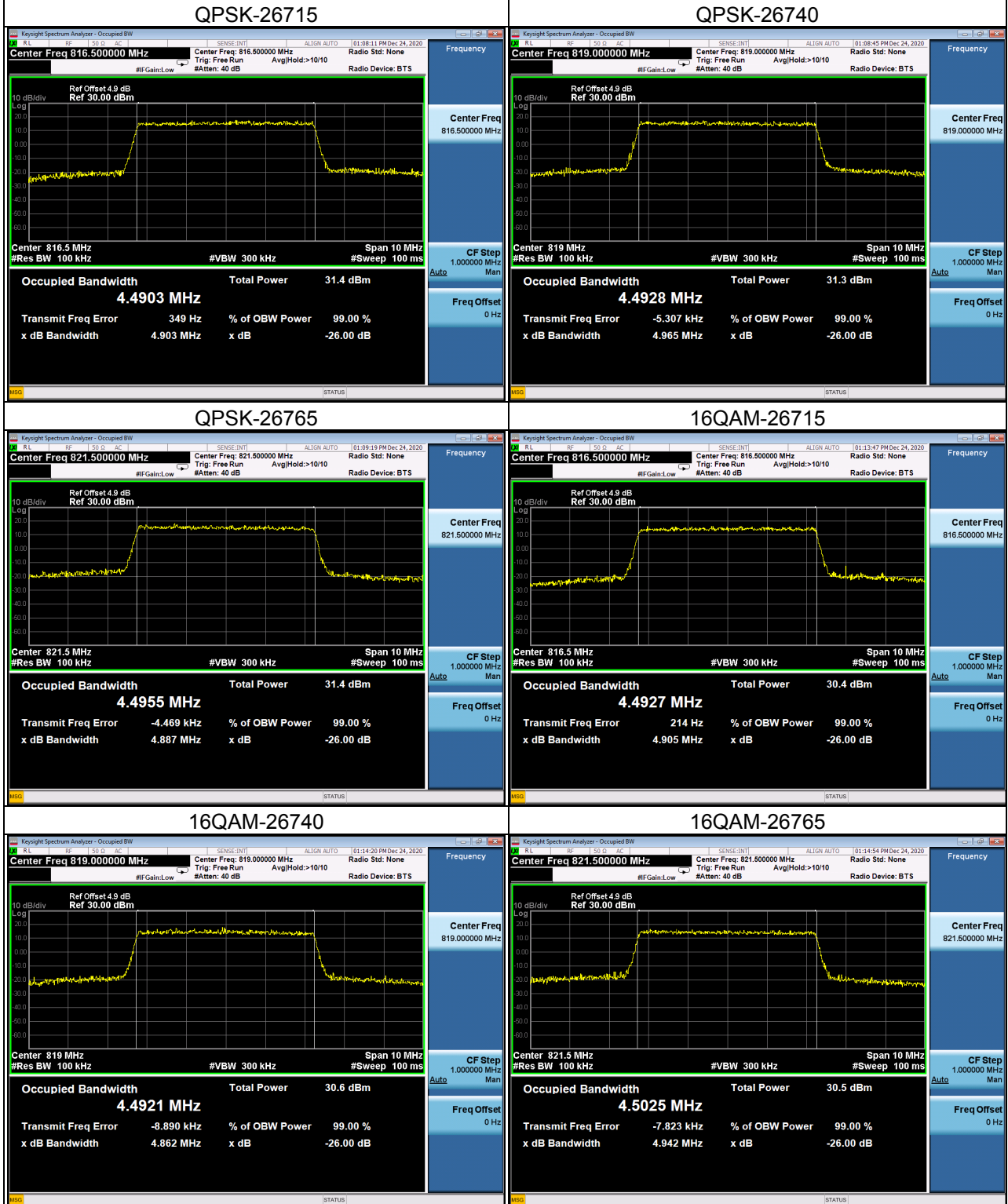
LTE Band 26_3M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26705	815.5	2.6853	26705	815.5	2.897
26740	819	2.6850	26740	819	2.905
26775	822.5	2.6932	26775	822.5	2.910
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26705	815.5	2.6846	26705	815.5	2.927
26740	819	2.6867	26740	819	2.910
26775	822.5	2.6885	26775	822.5	2.912

Spectrum Plot

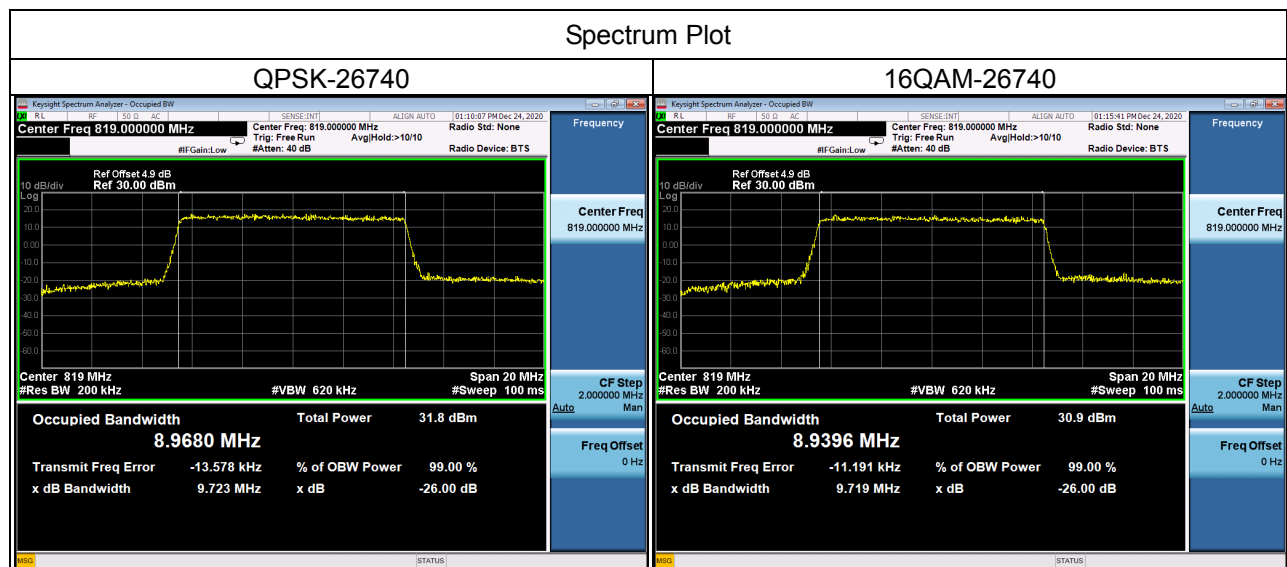


LTE Band 26_5M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26715	816.5	4.4903	26715	816.5	4.903
26740	819	4.4928	26740	819	4.965
26765	821.5	4.4955	26765	821.5	4.887
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26715	816.5	4.4927	26715	816.5	4.905
26740	819	4.4921	26740	819	4.862
26765	821.5	4.5025	26765	821.5	4.942

Spectrum Plot



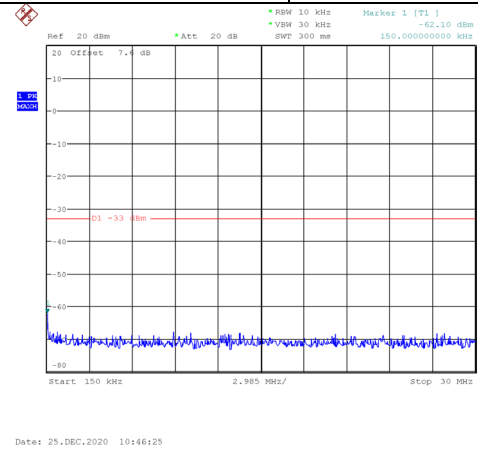
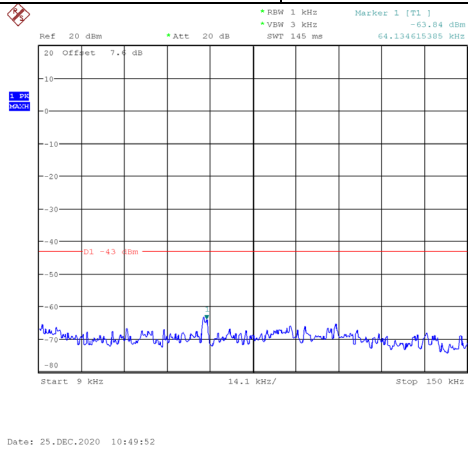
LTE Band 26_10M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26740	819	8.9680	26740	819	9.723
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26740	819	8.9396	26740	819	9.719



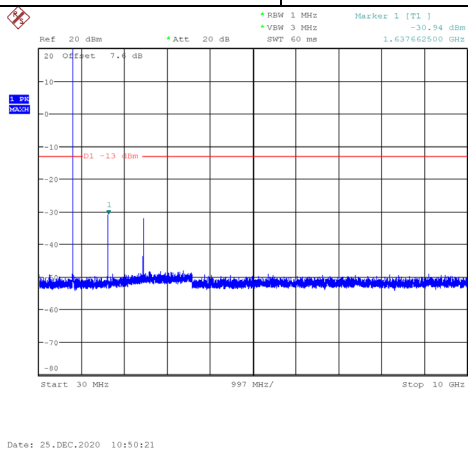
APPENDIX C - CONDUCTED SPURIOUS EMISSIONS

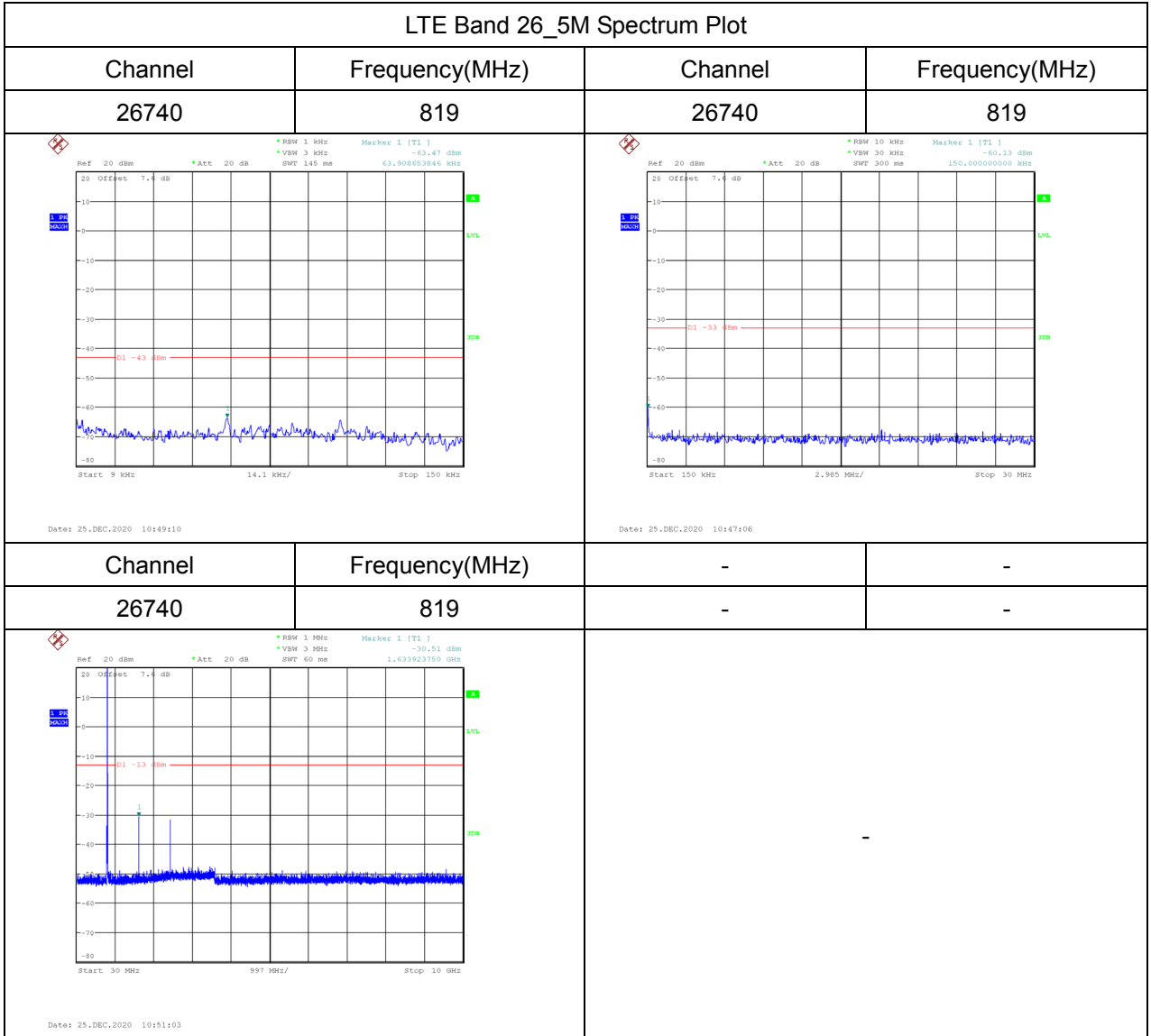
LTE Band 26_1.4M Spectrum Plot

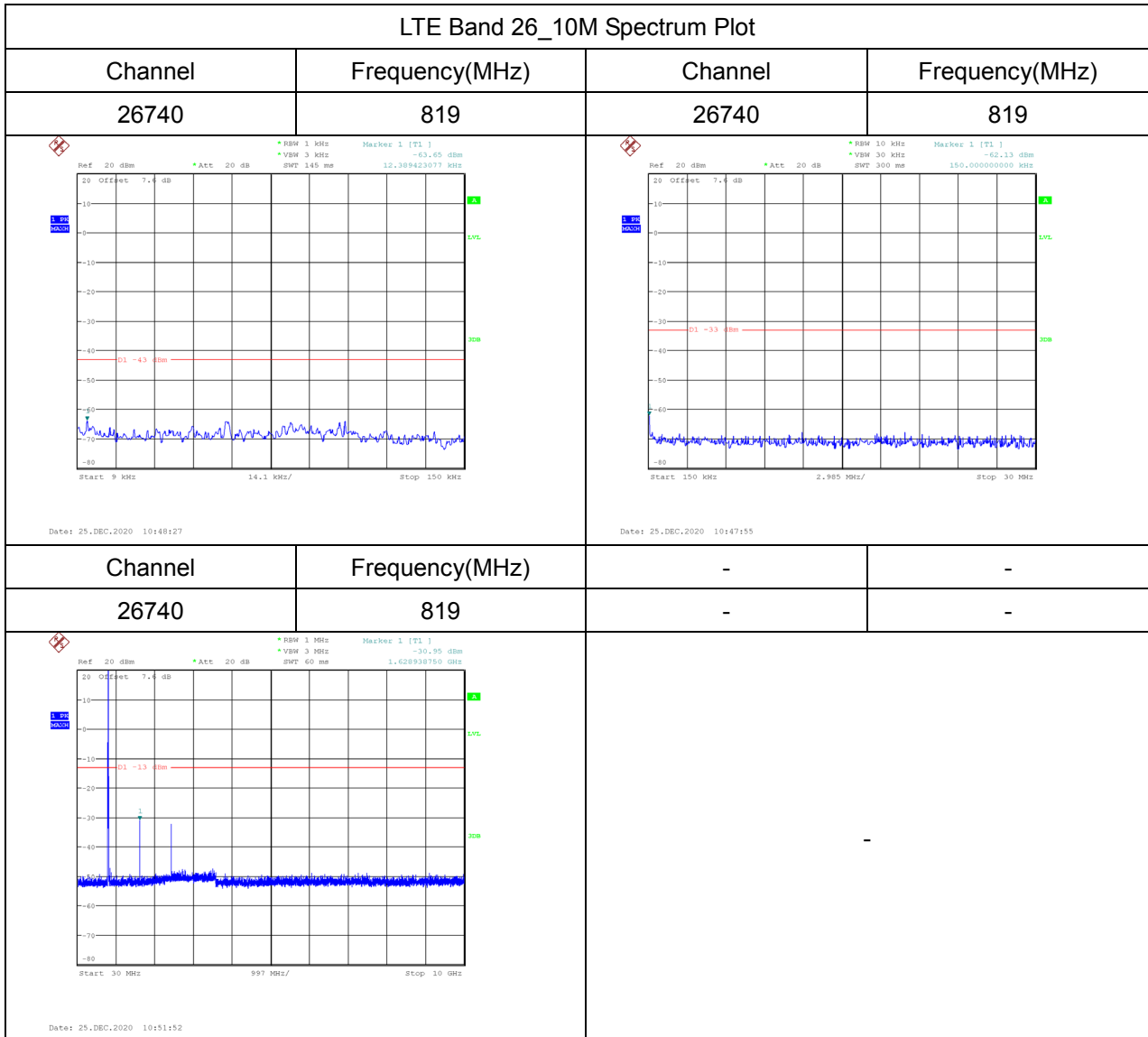
Channel	Frequency(MHz)	Channel	Frequency(MHz)
26740	819	26740	819



Channel	Frequency(MHz)	-	-
26740	819	-	-



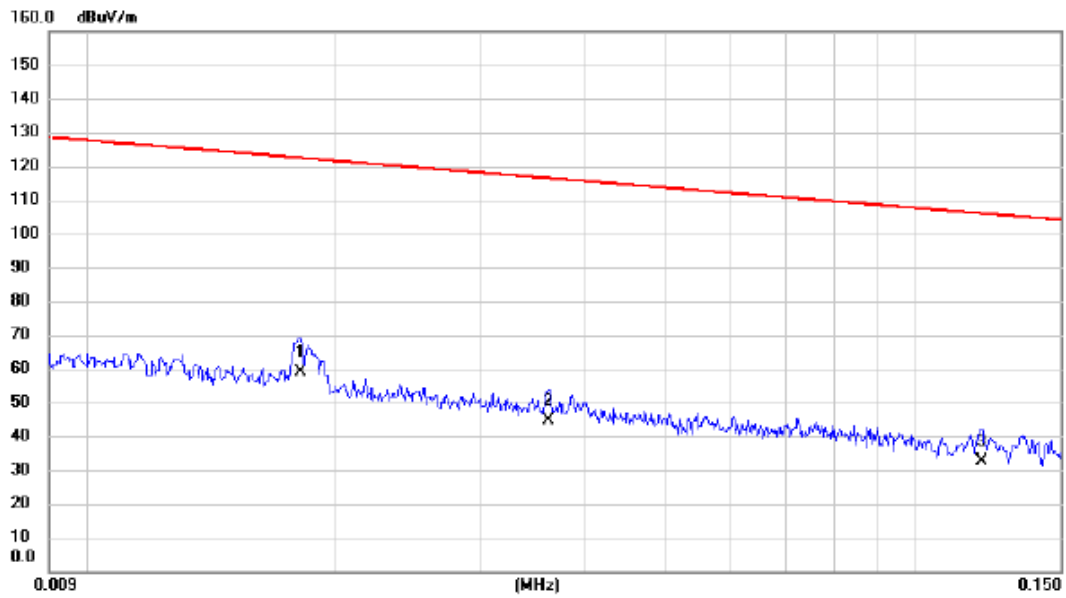




APPENDIX D - RADIATED SPURIOUS EMISSIONS (9KHZ TO 30MHZ)

Test Mode	TX Mode
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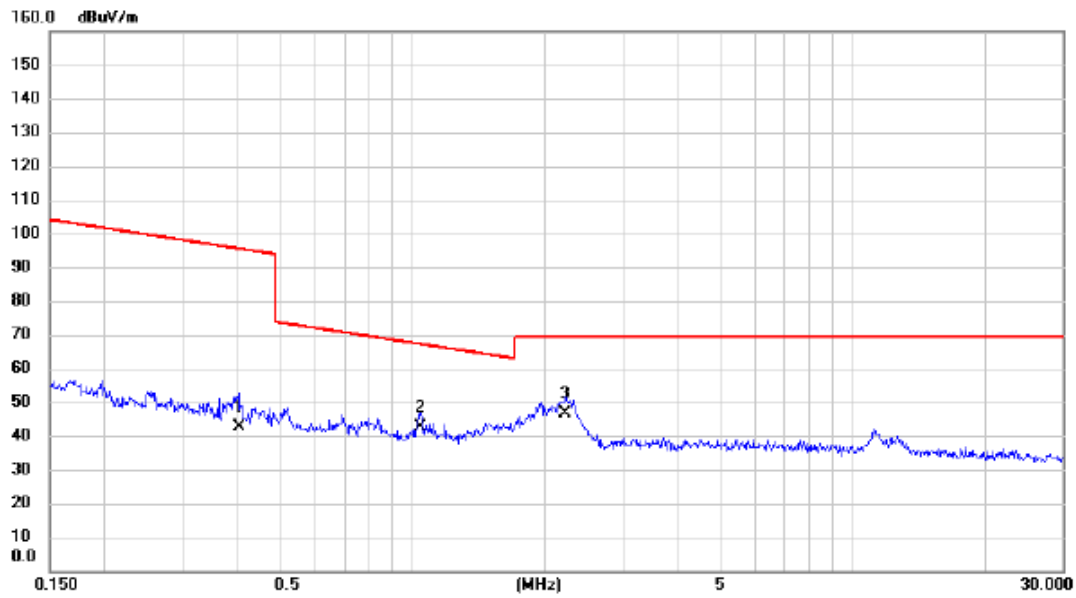
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.018	45.36	13.81	59.17	122.45	-63.28	AVG	
2		0.036	31.74	12.79	44.53	116.45	-71.92	AVG	
3		0.120	19.88	12.73	32.61	106.00	-73.39	AVG	

Test Mode	TX Mode
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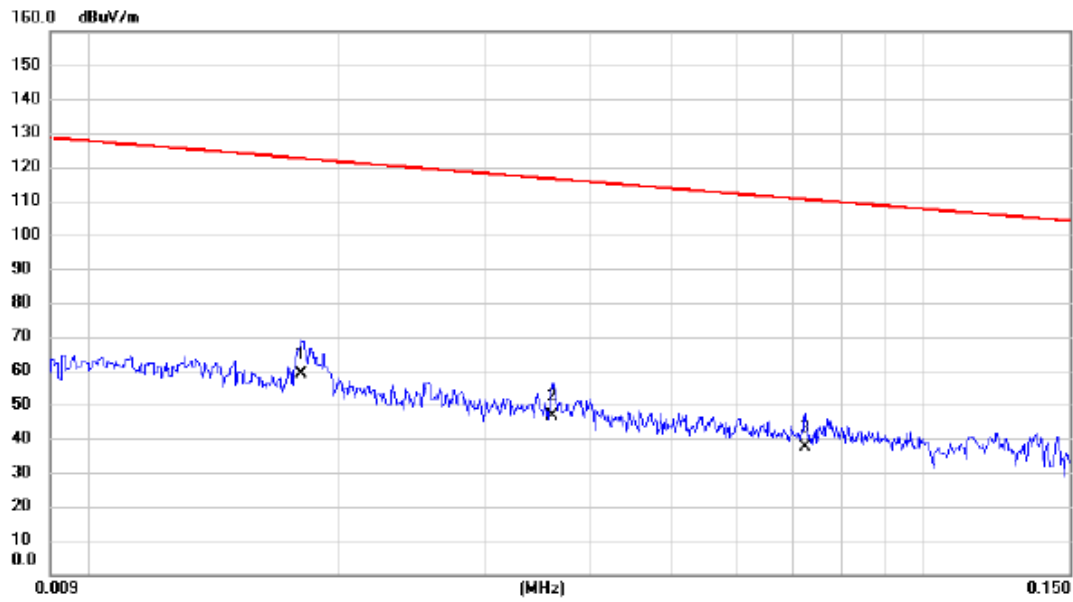
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.404	30.25	12.25	42.50	95.48	-52.98	AVG	
2		1.043	30.67	11.77	42.44	67.24	-24.80	QP	
3	*	2.225	35.41	11.20	46.61	69.54	-22.93	QP	

Test Mode	TX Mode
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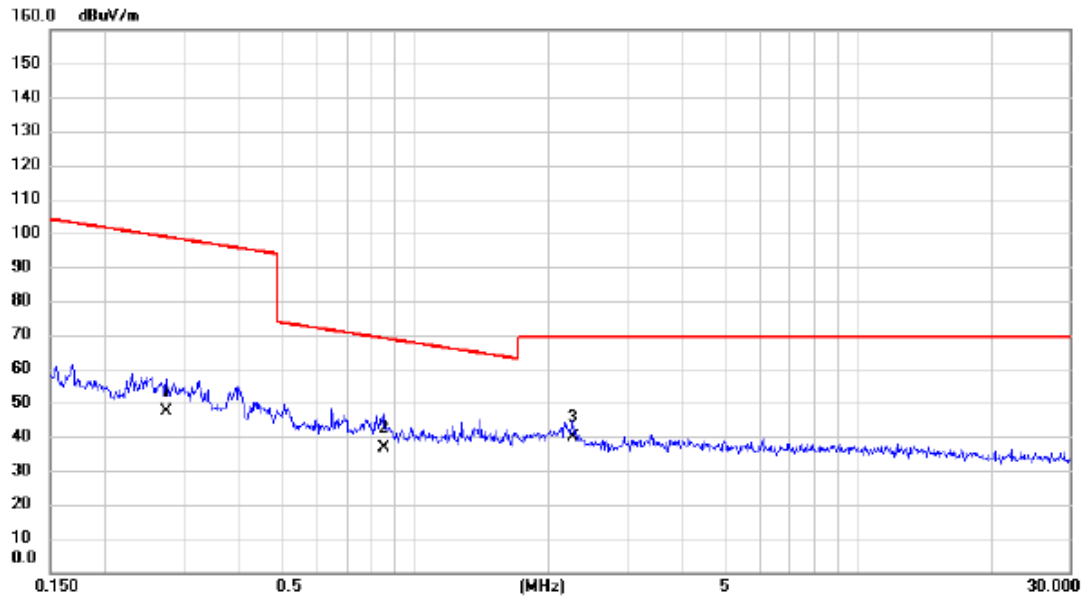
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.018	45.36	13.84	59.20	122.50	-63.30	AVG	
2		0.036	33.71	12.79	46.50	116.48	-69.98	AVG	
3		0.072	24.67	12.55	37.22	110.41	-73.19	AVG	

Test Mode	TX Mode
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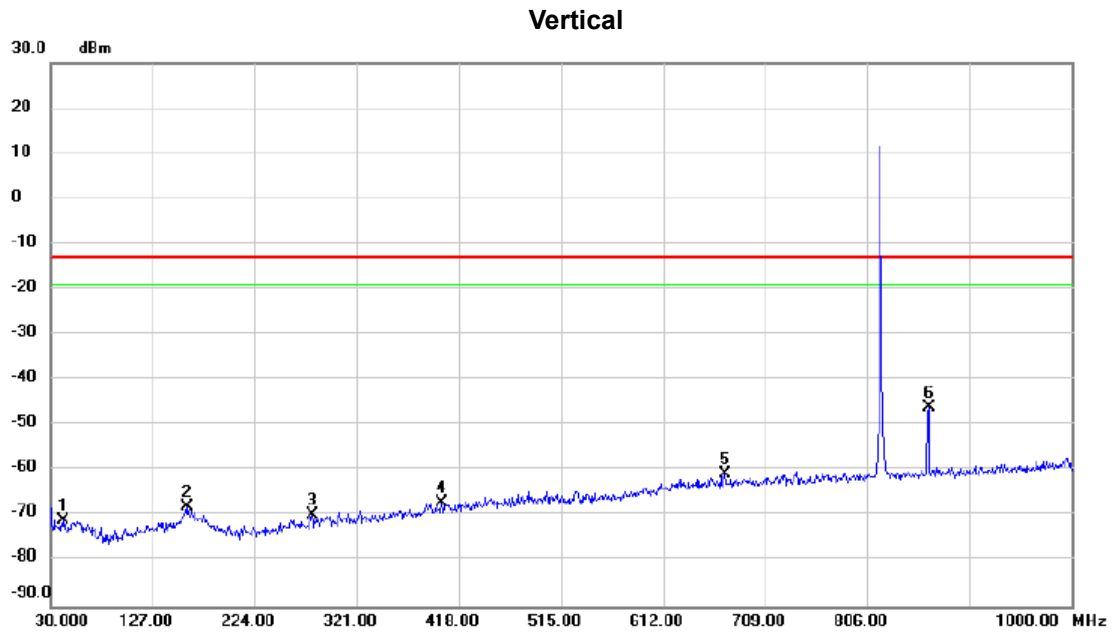
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.274	34.68	12.58	47.26	98.84	-51.58	AVG	
2		0.848	24.85	11.86	36.71	69.03	-32.32	QP	
3	*	2.261	28.64	11.17	39.81	69.54	-29.73	QP	

APPENDIX E - RADIATED SPURIOUS EMISSIONS (30MHZ TO 1000MHZ)

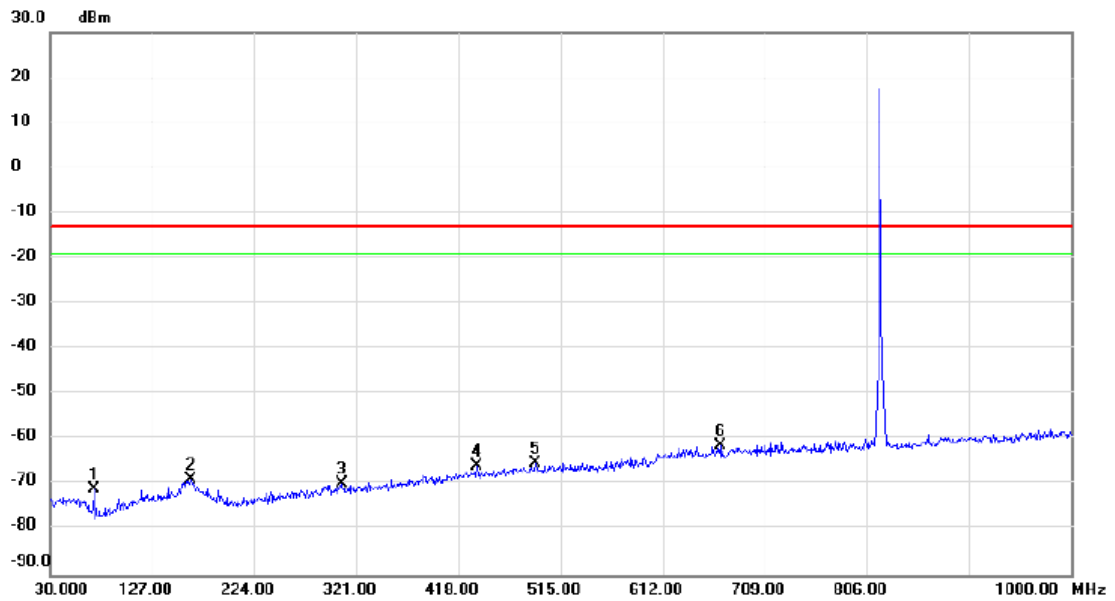
Test Mode | LTE Band 26_TX CH26740_1.4M_Main Antenna



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		42.6100	-66.76	-4.18	-70.94	-13.00	-57.94	peak	
2		159.4950	-67.28	-0.74	-68.02	-13.00	-55.02	peak	
3		278.8050	-67.56	-2.22	-69.78	-13.00	-56.78	peak	
4		401.9950	-68.06	1.05	-67.01	-13.00	-54.01	peak	
5		670.6850	-66.82	6.02	-60.80	-13.00	-47.80	peak	
6	*	864.2000	-54.53	8.43	-46.10	-13.00	-33.10	peak	

Test Mode | LTE Band 26_TX CH26740_1.4M_Main Antenna

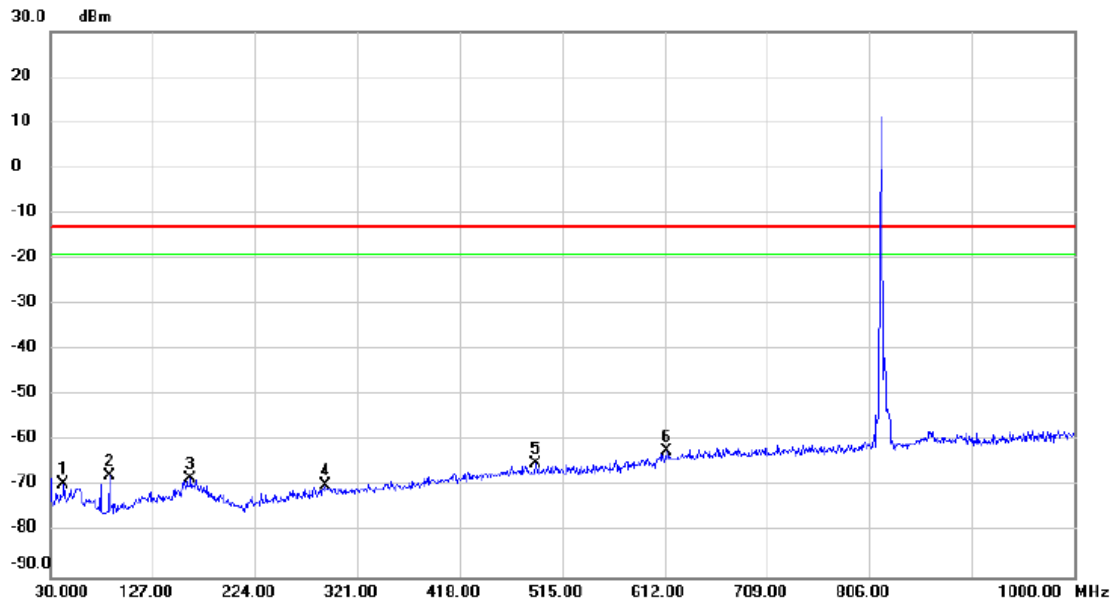
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		72.1950	-64.60	-6.32	-70.92	-13.00	-57.92	peak	
2		163.8600	-67.56	-1.22	-68.78	-13.00	-55.78	peak	
3		306.9350	-68.81	-0.89	-69.70	-13.00	-56.70	peak	
4		435.4600	-67.94	1.96	-65.98	-13.00	-52.98	peak	
5		491.2350	-67.97	2.67	-65.30	-13.00	-52.30	peak	
6	*	667.2900	-67.29	5.97	-61.32	-13.00	-48.32	peak	

Test Mode | LTE Band 26_TX CH26740_5M_Main Antenna

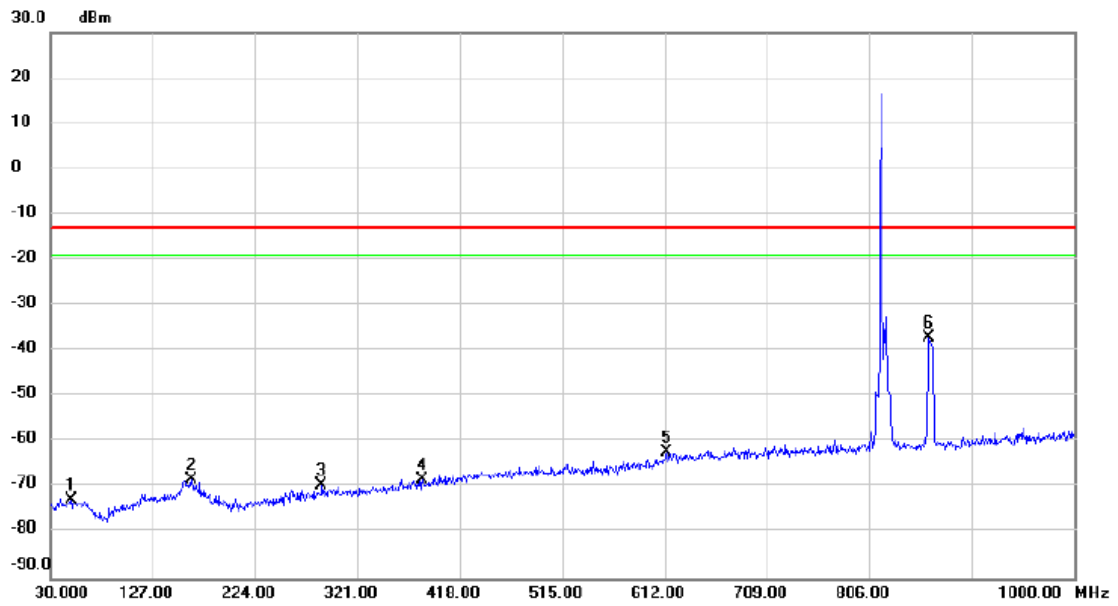
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		42.6100	-65.27	-4.18	-69.45	-13.00	-56.45	peak	
2		86.2600	-61.01	-6.50	-67.51	-13.00	-54.51	peak	
3		162.8900	-67.05	-1.08	-68.13	-13.00	-55.13	peak	
4		290.9300	-68.45	-1.44	-69.89	-13.00	-56.89	peak	
5		489.7800	-67.74	2.66	-65.08	-13.00	-52.08	peak	
6	*	613.9400	-67.18	4.95	-62.23	-13.00	-49.23	peak	

Test Mode | LTE Band 26_TX CH26740_5M_Main Antenna

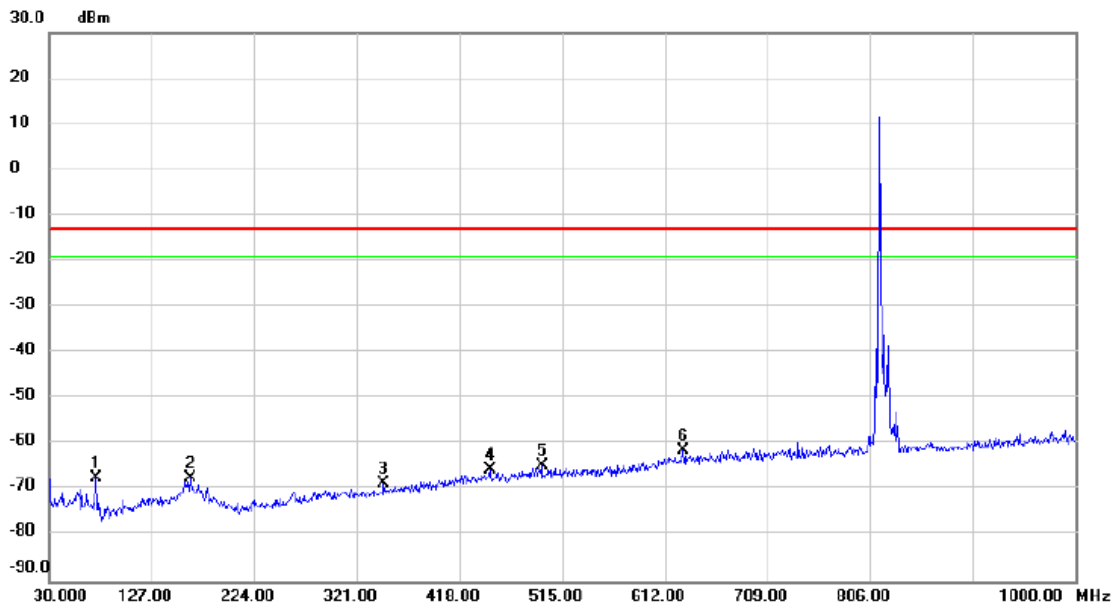
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		49.4000	-69.21	-3.65	-72.86	-13.00	-59.86	peak	
2		163.8600	-66.93	-1.22	-68.15	-13.00	-55.15	peak	
3		287.0500	-67.81	-1.68	-69.49	-13.00	-56.49	peak	
4		382.5950	-68.74	0.57	-68.17	-13.00	-55.17	peak	
5		614.4250	-67.18	4.96	-62.22	-13.00	-49.22	peak	
6	*	862.7450	-45.50	8.41	-37.09	-13.00	-24.09	peak	

Test Mode | LTE Band 26_TX CH26740_10M_Main Antenna

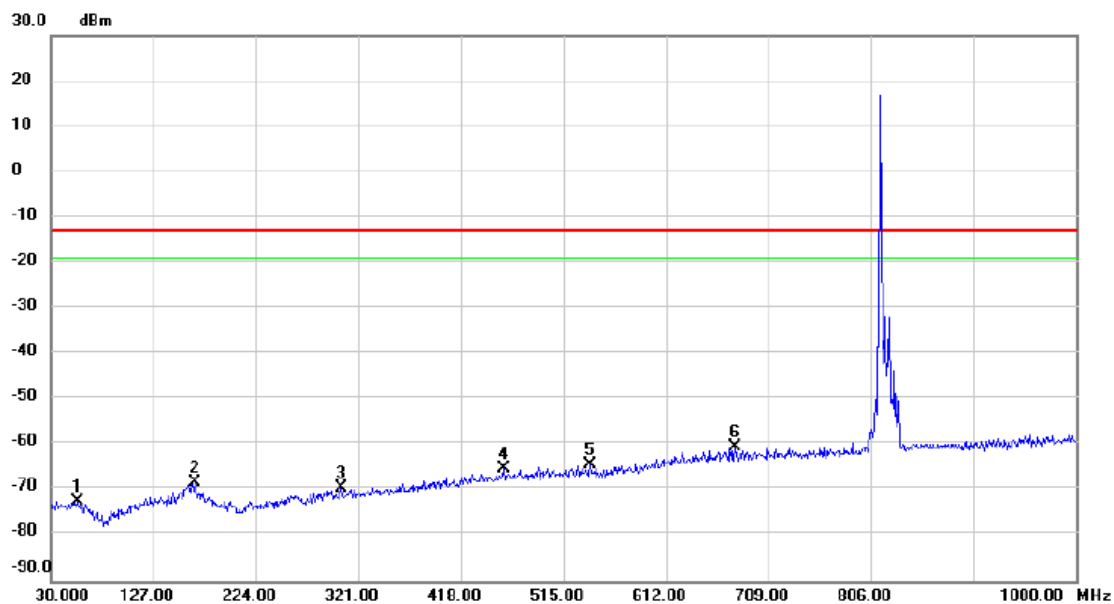
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		75.1050	-60.46	-6.87	-67.33	-13.00	-54.33	peak	
2		163.3750	-66.30	-1.15	-67.45	-13.00	-54.45	peak	
3		346.7050	-68.34	-0.25	-68.59	-13.00	-55.59	peak	
4		446.6150	-67.97	2.28	-65.69	-13.00	-52.69	peak	
5		495.6000	-67.49	2.70	-64.79	-13.00	-51.79	peak	
6	*	629.9450	-66.69	5.30	-61.39	-13.00	-48.39	peak	

Test Mode | LTE Band 26_TX CH26740_10M_Main Antenna

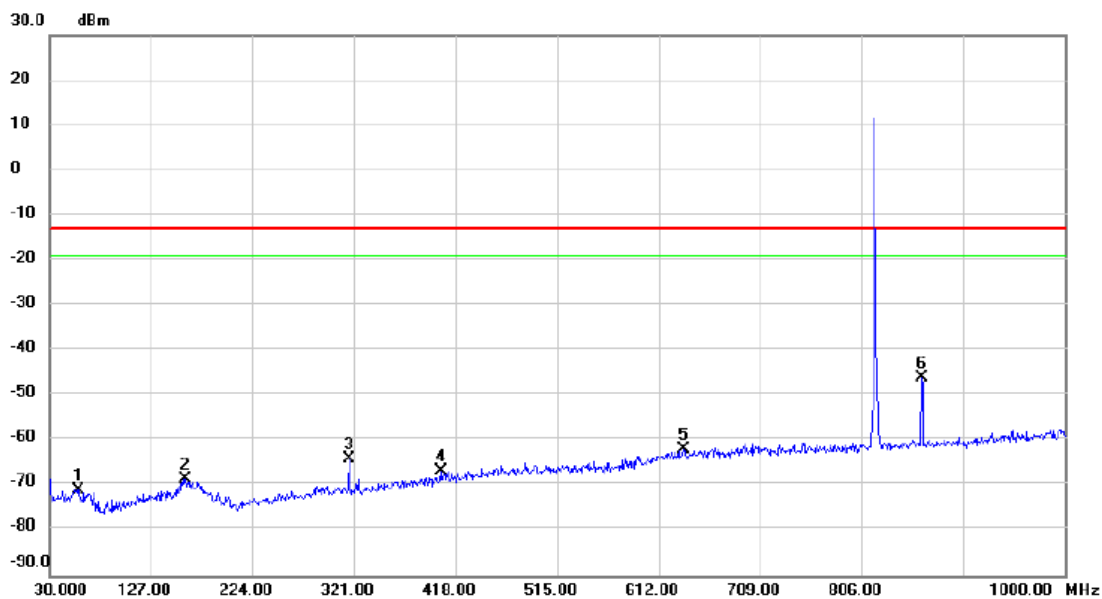
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		55.2200	-68.75	-3.68	-72.43	-13.00	-59.43	peak	
2		166.2850	-66.79	-1.56	-68.35	-13.00	-55.35	peak	
3		304.9950	-68.51	-0.92	-69.43	-13.00	-56.43	peak	
4		459.2250	-67.62	2.43	-65.19	-13.00	-52.19	peak	
5		540.7050	-67.56	3.11	-64.45	-13.00	-51.45	peak	
6	*	677.4750	-66.58	6.11	-60.47	-13.00	-47.47	peak	

Test Mode | LTE Band 26_TX CH26740_1.4M_Second Antenna

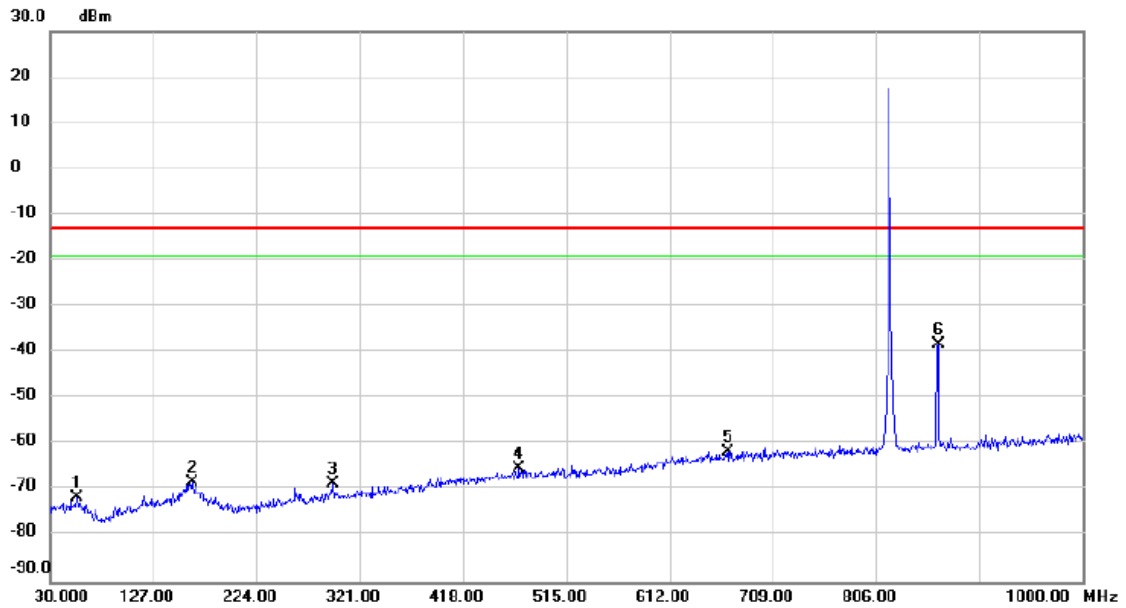
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		58.1300	-66.49	-4.35	-70.84	-13.00	-57.84	peak	
2		159.9800	-67.91	-0.67	-68.58	-13.00	-55.58	peak	
3		316.6350	-63.44	-0.74	-64.18	-13.00	-51.18	peak	
4		403.9350	-67.73	1.11	-66.62	-13.00	-53.62	peak	
5		635.7650	-67.31	5.42	-61.89	-13.00	-48.89	peak	
6	*	863.7150	-54.49	8.42	-46.07	-13.00	-33.07	peak	

Test Mode | LTE Band 26_TX CH26740_1.4M_Second Antenna

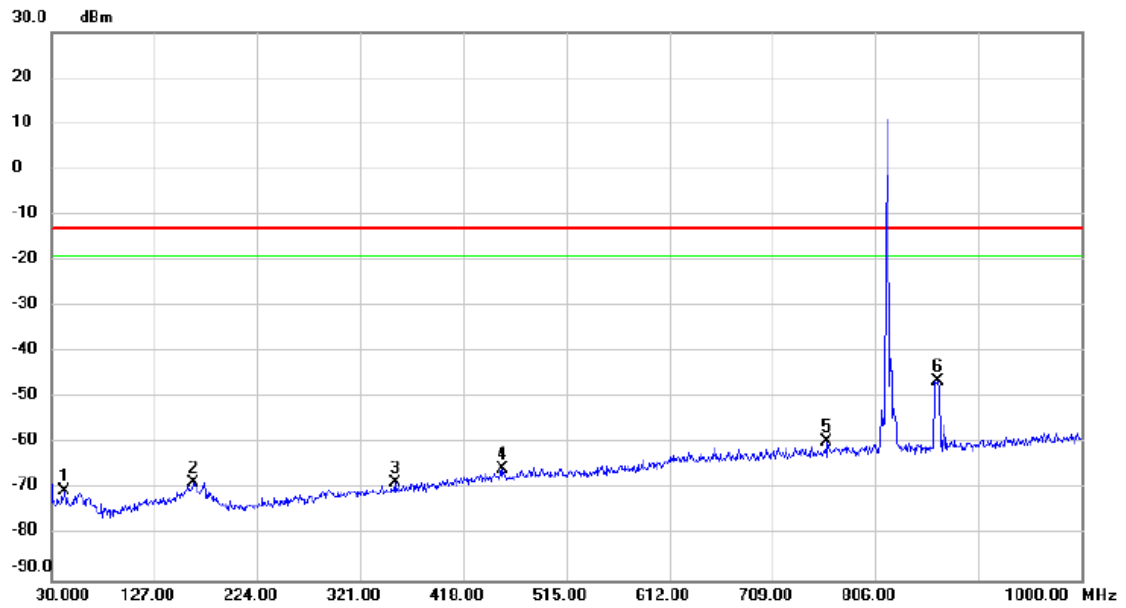
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		55.7050	-67.80	-3.73	-71.53	-13.00	-58.53	peak	
2		164.3450	-66.91	-1.28	-68.19	-13.00	-55.19	peak	
3		295.7800	-67.27	-1.20	-68.47	-13.00	-55.47	peak	
4		470.3800	-67.90	2.51	-65.39	-13.00	-52.39	peak	
5		667.2900	-67.65	5.97	-61.68	-13.00	-48.68	peak	
6	*	864.2000	-46.66	8.43	-38.23	-13.00	-25.23	peak	

Test Mode | LTE Band 26_TX CH26740_5M_Second Antenna

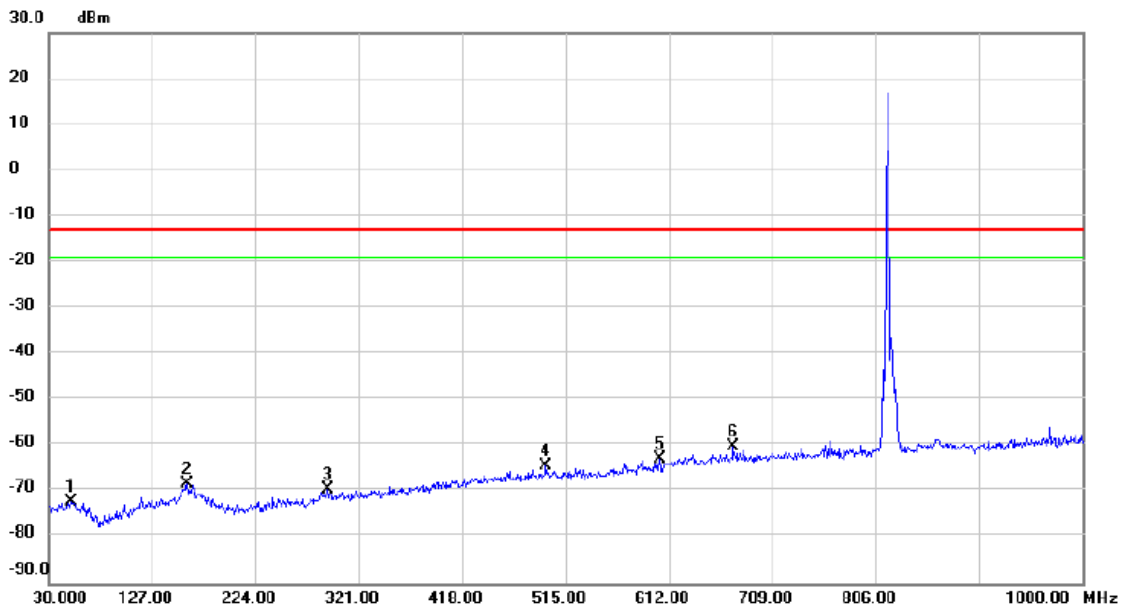
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		42.6100	-66.11	-4.18	-70.29	-13.00	-57.29	peak	
2		163.8600	-67.20	-1.22	-68.42	-13.00	-55.42	peak	
3		353.4950	-68.42	-0.12	-68.54	-13.00	-55.54	peak	
4		454.3750	-68.06	2.40	-65.66	-13.00	-52.66	peak	
5		760.4100	-66.61	6.94	-59.67	-13.00	-46.67	peak	
6	*	864.6850	-54.71	8.43	-46.28	-13.00	-33.28	peak	

Test Mode | LTE Band 26_TX CH26740_5M_Second Antenna

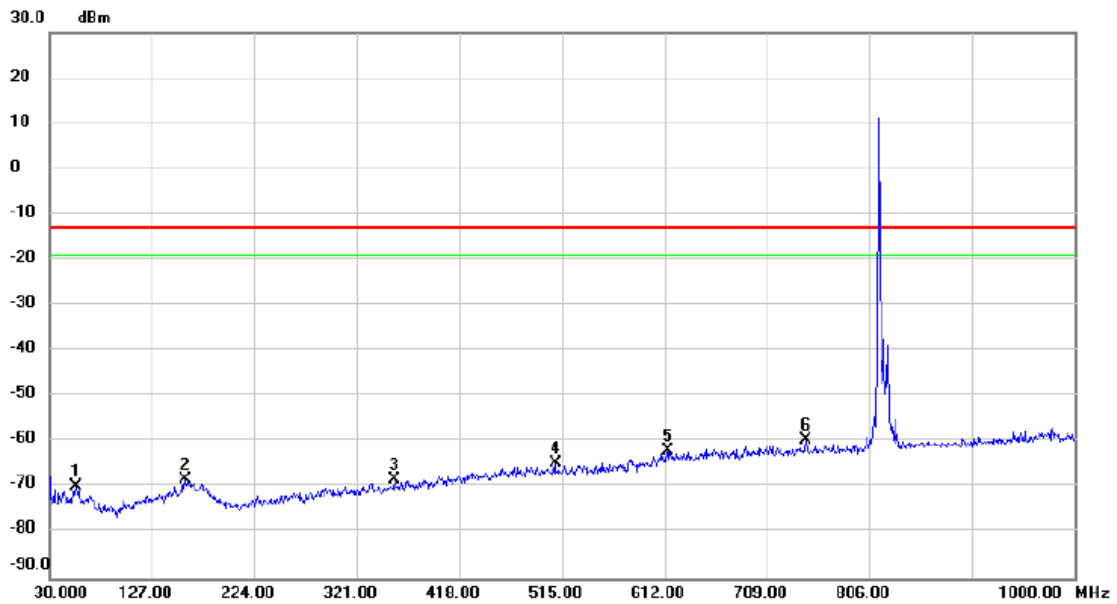
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		51.3400	-68.55	-3.64	-72.19	-13.00	-59.19	peak	
2		159.9800	-67.68	-0.67	-68.35	-13.00	-55.35	peak	
3		291.9000	-68.21	-1.38	-69.59	-13.00	-56.59	peak	
4		496.5700	-67.17	2.71	-64.46	-13.00	-51.46	peak	
5		603.7550	-67.69	4.73	-62.96	-13.00	-49.96	peak	
6	*	672.1400	-66.24	6.04	-60.20	-13.00	-47.20	peak	

Test Mode | LTE Band 26_TX CH26740_10M_Second Antenna

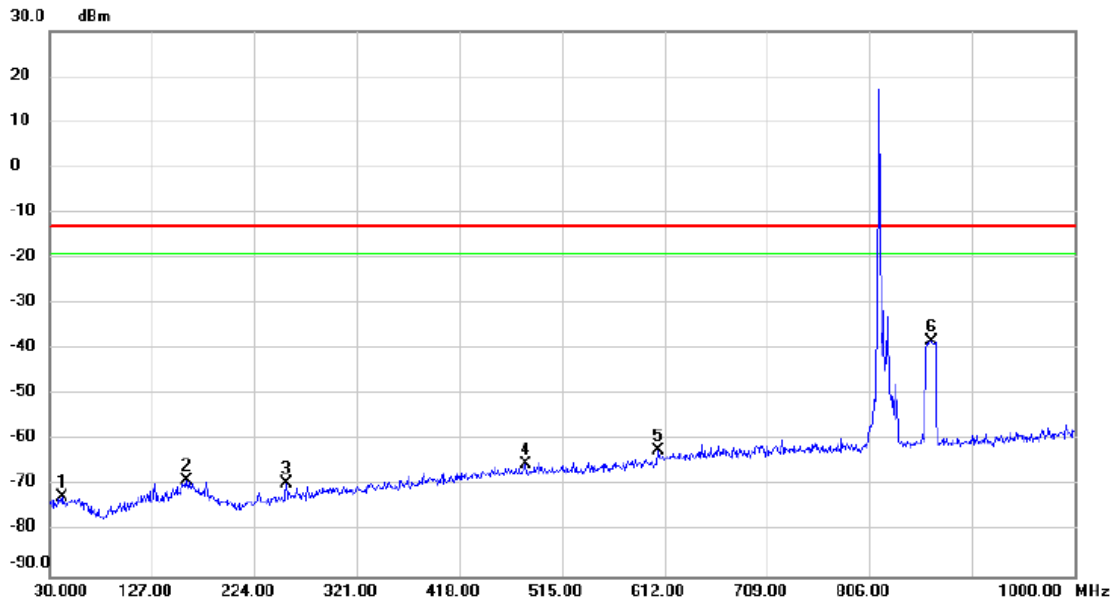
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		55.7050	-66.11	-3.73	-69.84	-13.00	-56.84	peak	
2		158.5250	-67.35	-0.86	-68.21	-13.00	-55.21	peak	
3		355.9200	-68.21	-0.07	-68.28	-13.00	-55.28	peak	
4		508.6950	-67.57	2.82	-64.75	-13.00	-51.75	peak	
5		614.9100	-66.95	4.97	-61.98	-13.00	-48.98	peak	
6	*	745.8600	-66.39	6.76	-59.63	-13.00	-46.63	peak	

Test Mode | LTE Band 26_TX CH26740_10M_Second Antenna

Horizontal

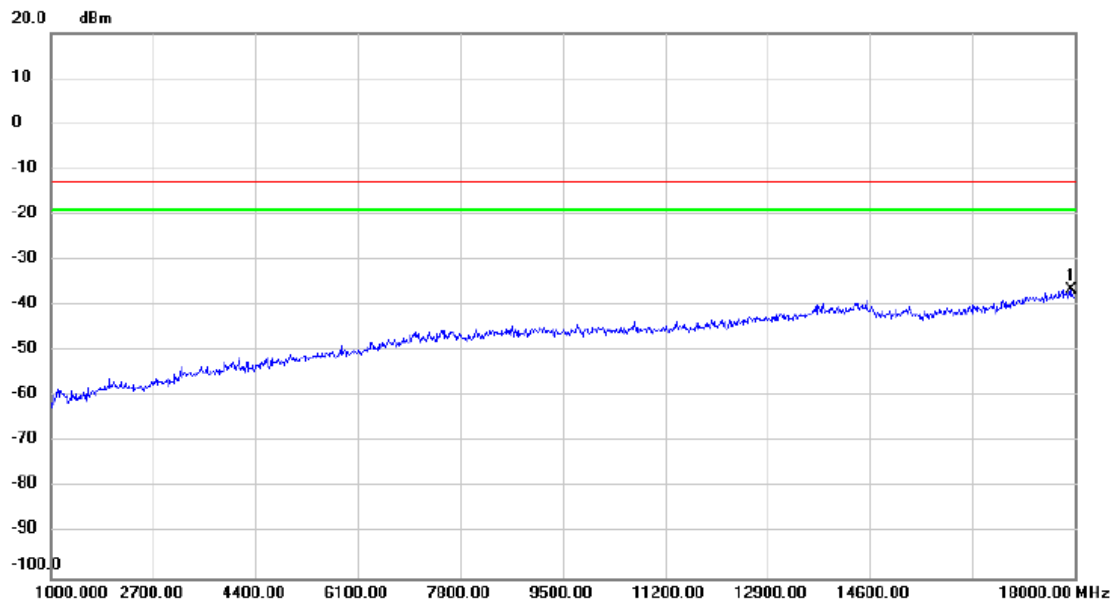


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		42.6100	-68.20	-4.18	-72.38	-13.00	-59.38	peak	
2		159.4950	-68.03	-0.74	-68.77	-13.00	-55.77	peak	
3		254.0700	-66.48	-2.86	-69.34	-13.00	-56.34	peak	
4		480.0800	-67.92	2.59	-65.33	-13.00	-52.33	peak	
5		606.6650	-67.09	4.79	-62.30	-13.00	-49.30	peak	
6	*	864.2000	-46.67	8.43	-38.24	-13.00	-25.24	peak	

APPENDIX F - RADIATED SPURIOUS EMISSIONS (ABOVE 1000MHZ)

Test Mode	LTE Band 26_TX CH26740_1.4M_Main Antenna
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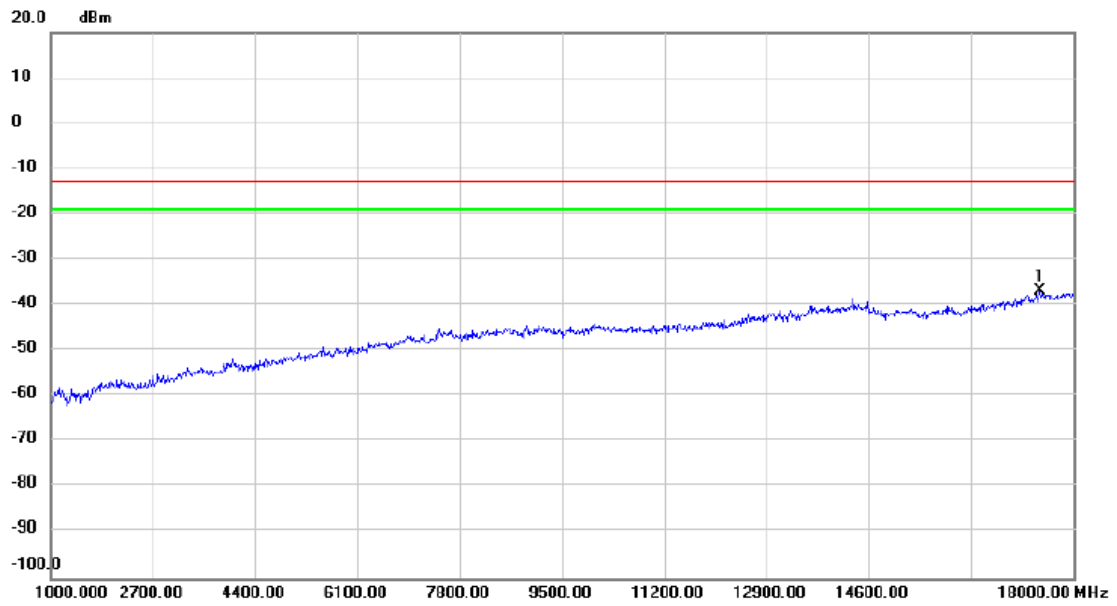
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17949.00	-57.21	20.64	-36.57	-13.00	-23.57	peak	

Test Mode | LTE Band 26_TX CH26740_1.4M_Main Antenna

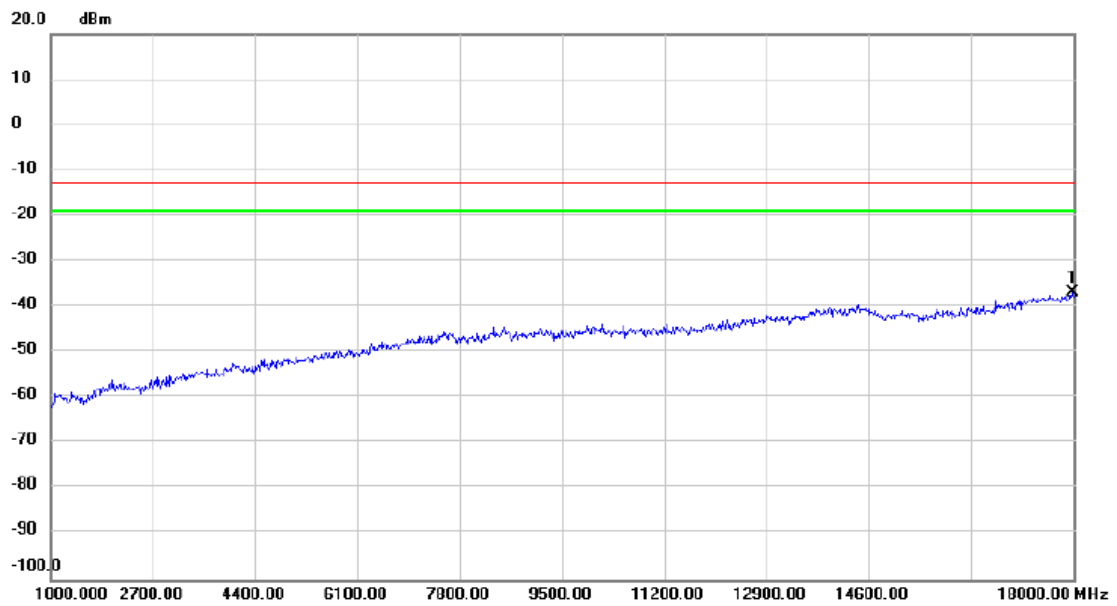
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17439.00	-57.26	20.36	-36.90	-13.00	-23.90	peak	

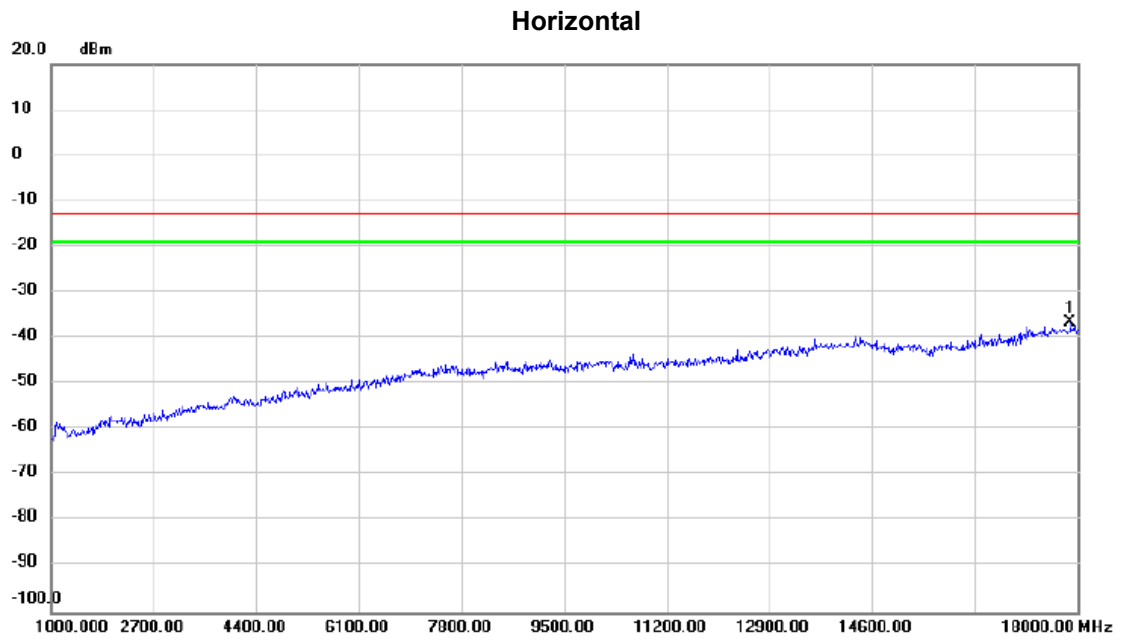
Test Mode | LTE Band 26_TX CH26740_5M_Main Antenna

Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17983.00	-57.53	20.65	-36.88	-13.00	-23.88	peak	

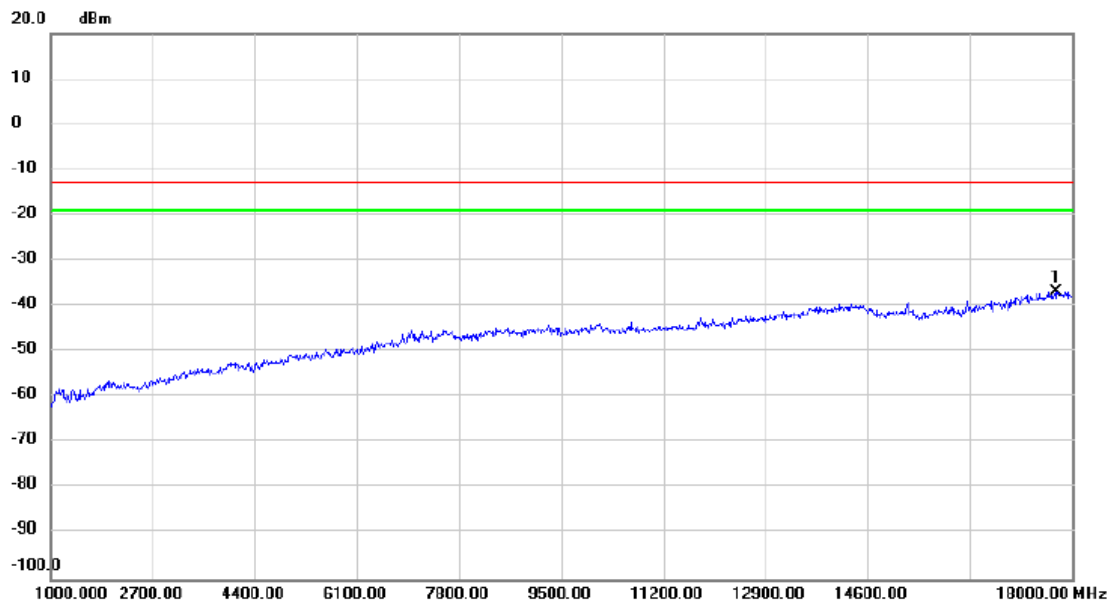
Test Mode | LTE Band 26_TX CH26740_5M_Main Antenna



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17881.00	-57.18	20.64	-36.54	-13.00	-23.54	peak	

Test Mode | LTE Band 26_TX CH26740_10M_Main Antenna

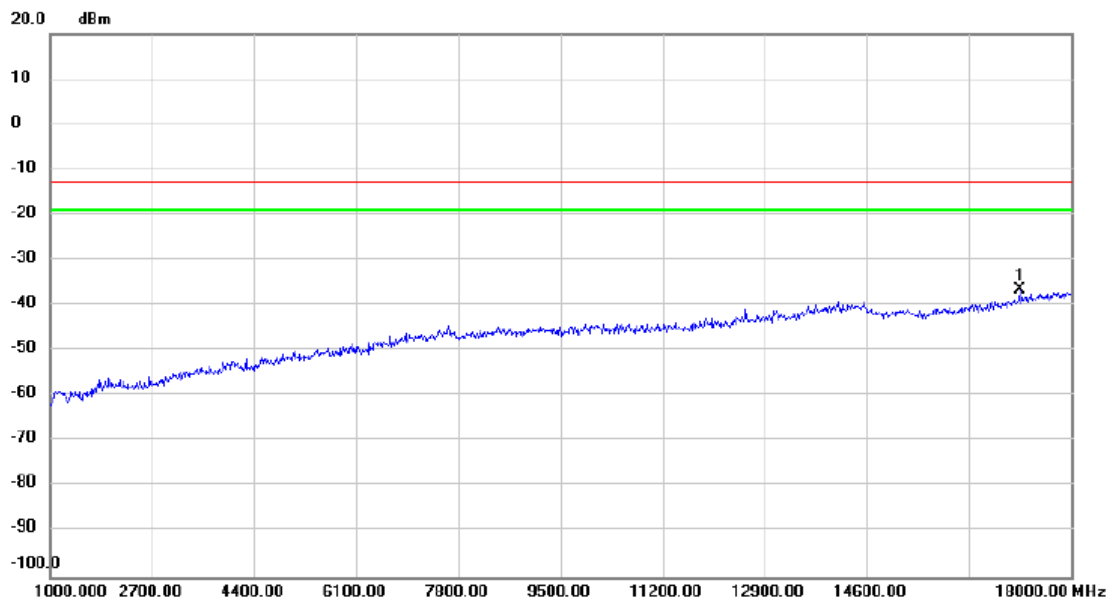
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17728.00	-57.33	20.62	-36.71	-13.00	-23.71	peak	

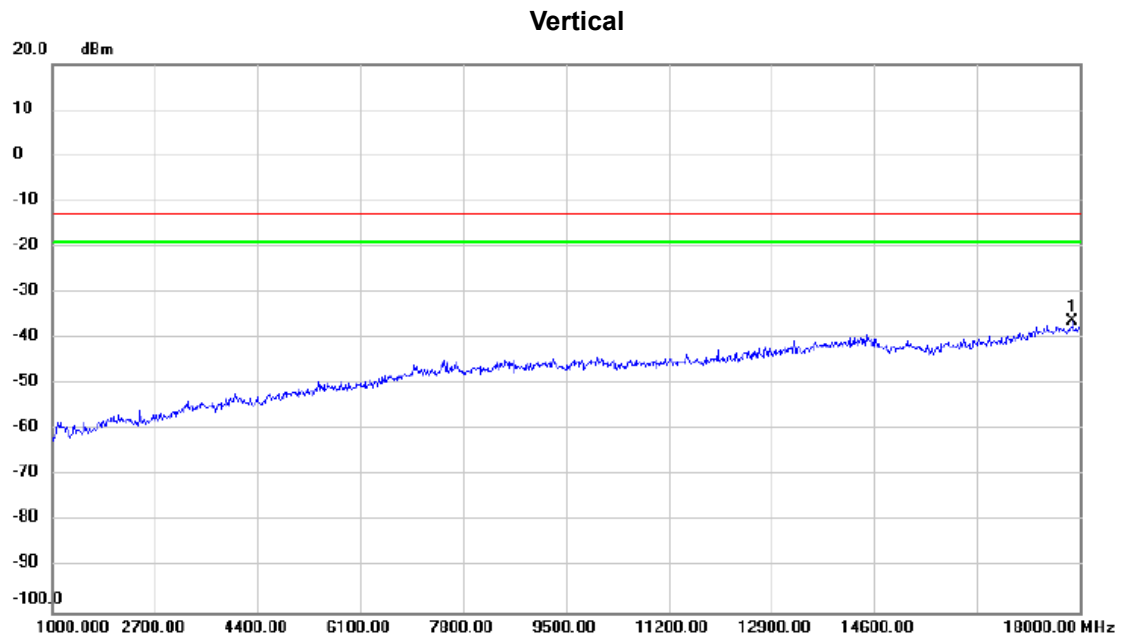
Test Mode | LTE Band 26_TX CH26740_10M_Main Antenna

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17150.00	-55.85	19.25	-36.60	-13.00	-23.60	peak	

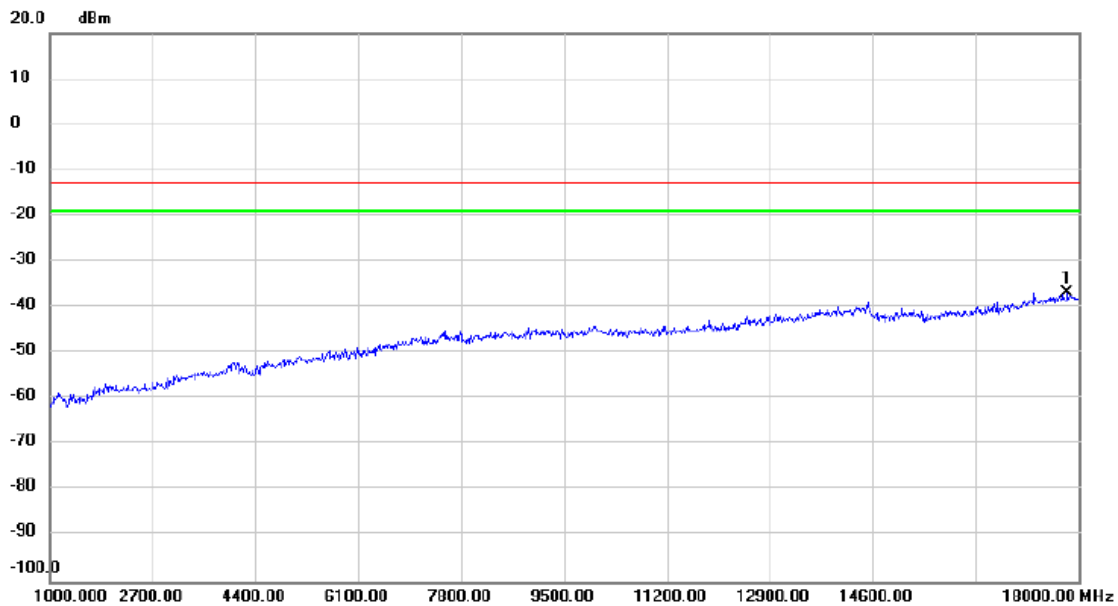
Test Mode | LTE Band 26_TX CH26740_1.4M_Second Antenna



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17881.00	-56.91	20.64	-36.27	-13.00	-23.27	peak	

Test Mode | LTE Band 26_TX CH26740_1.4M_Second Antenna

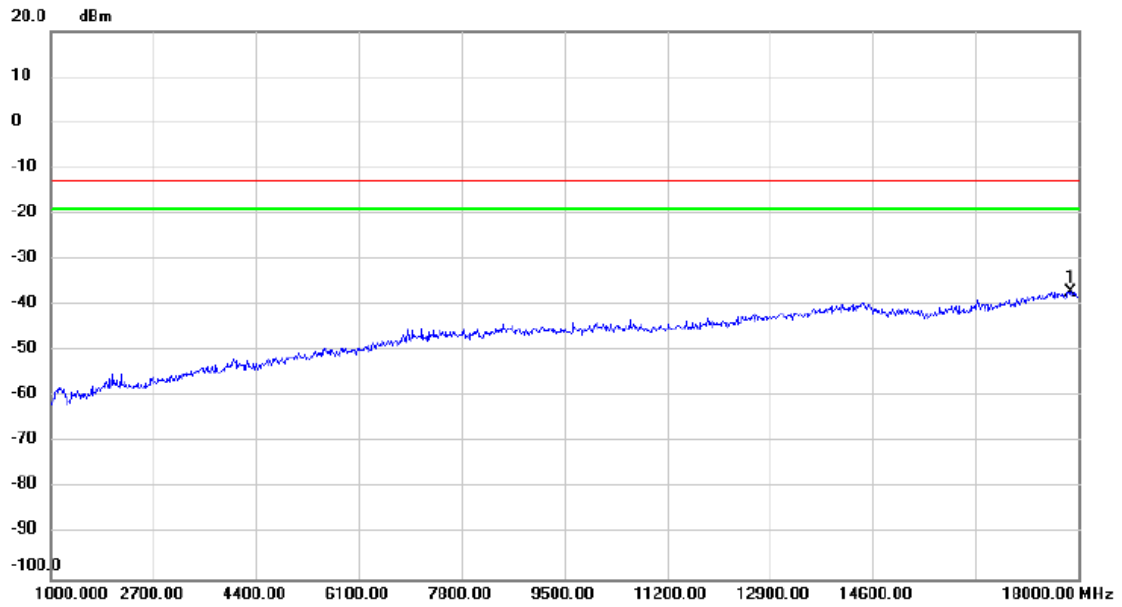
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17813.00	-57.43	20.63	-36.80	-13.00	-23.80	peak	

Test Mode | LTE Band 26_TX CH26740_5M_Second Antenna

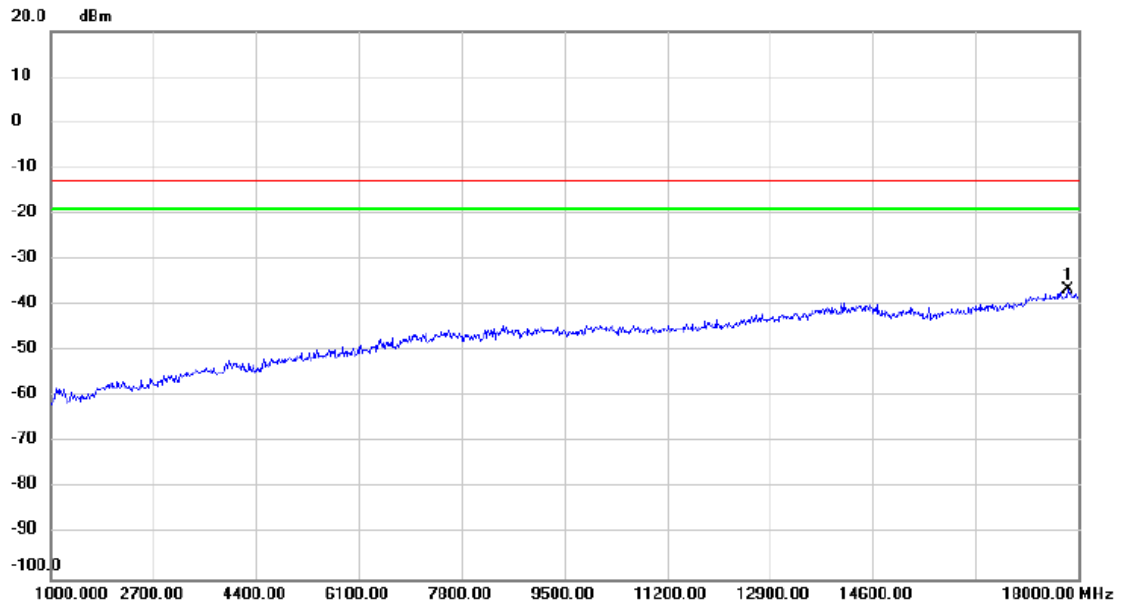
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17864.00	-57.64	20.64	-37.00	-13.00	-24.00	peak	

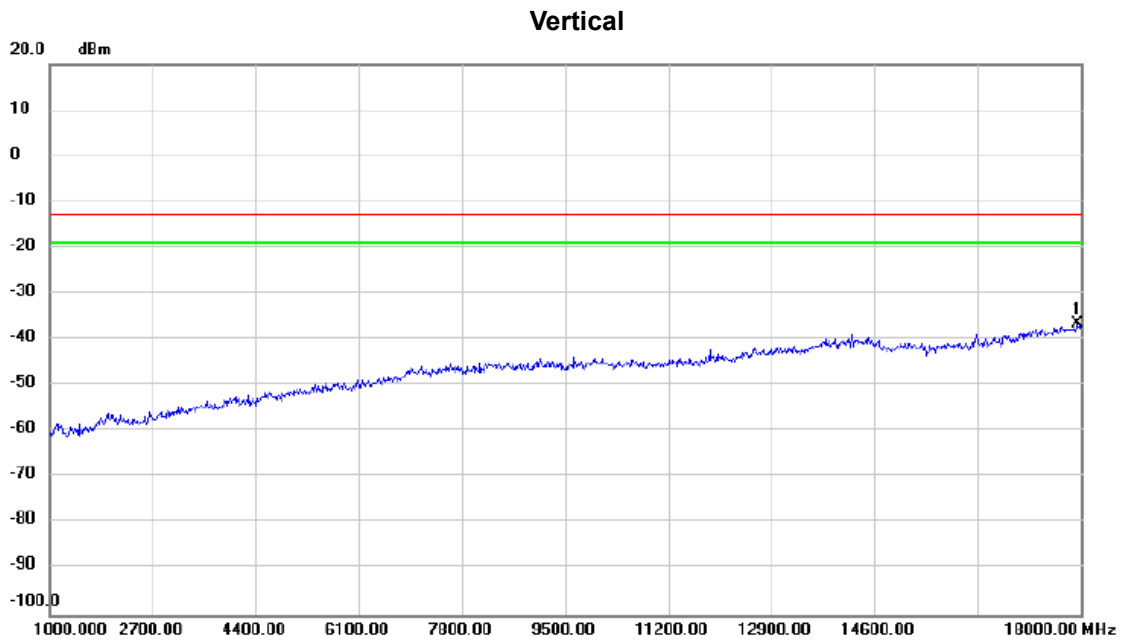
Test Mode | LTE Band 26_TX CH26740_5M_Second Antenna

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17830.00	-57.29	20.63	-36.66	-13.00	-23.66	peak	

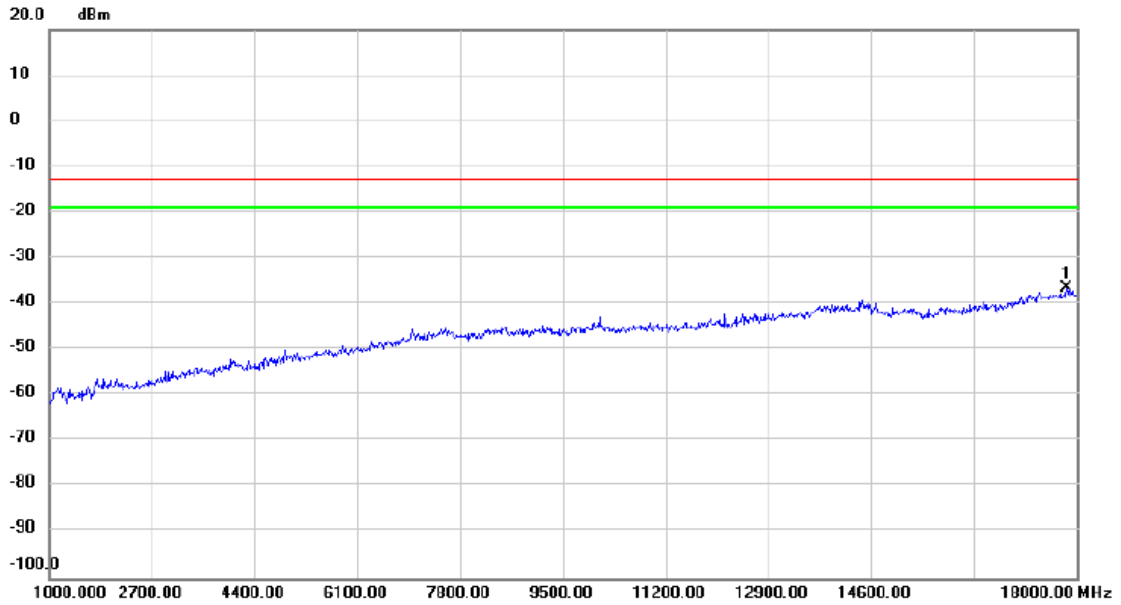
Test Mode | LTE Band 26_TX CH26740_10M_Second Antenna



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17949.00	-57.17	20.64	-36.53	-13.00	-23.53	peak	

Test Mode | LTE Band 26_TX CH26740_10M_Second Antenna

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17830.00	-57.20	20.63	-36.57	-13.00	-23.57	peak	

APPENDIX G - MASK

LTE Band 26_1.4M

1RB#0

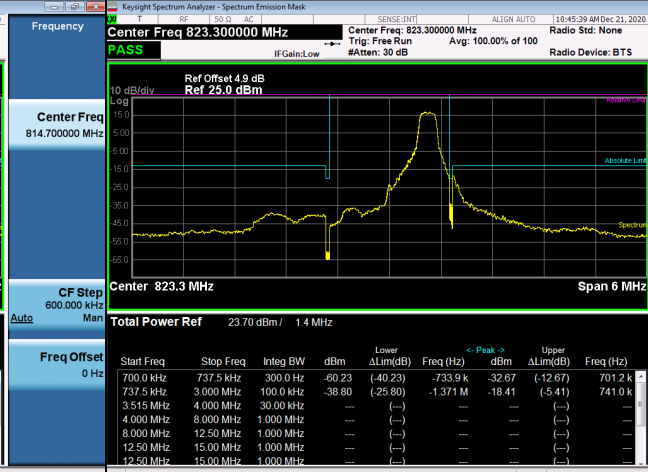
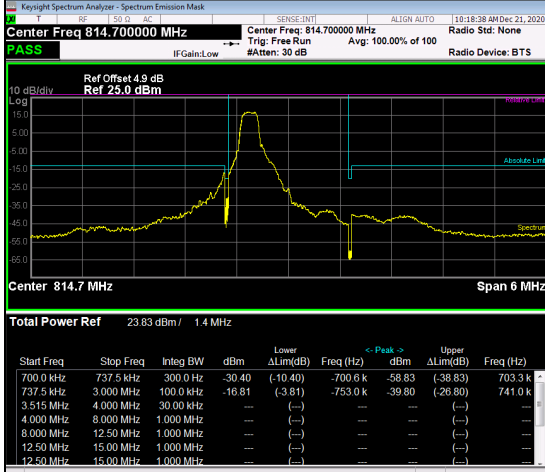
1RB#5

Channel

26697

Channel

26783



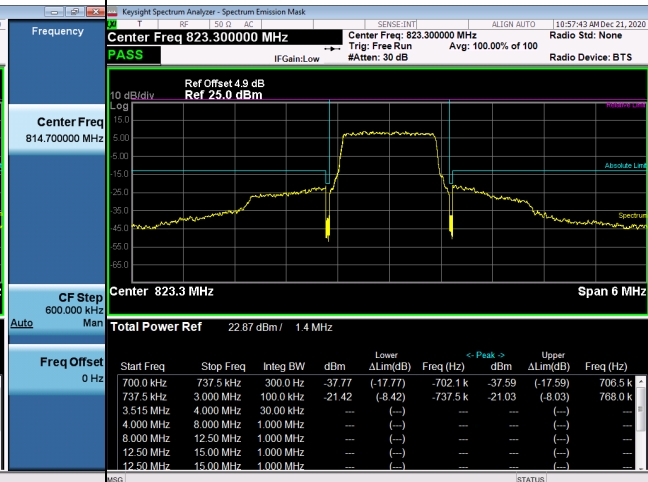
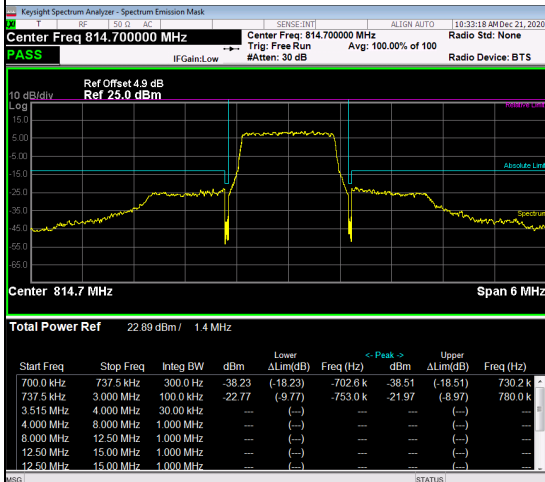
6RB#0

Channel

26697

Channel

26783

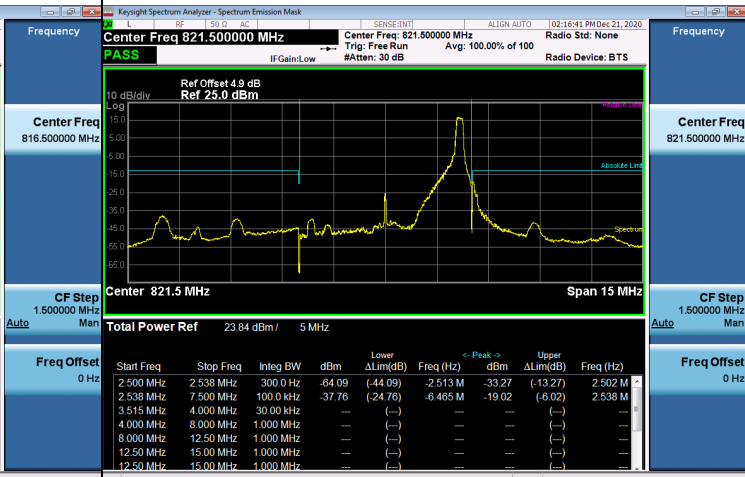
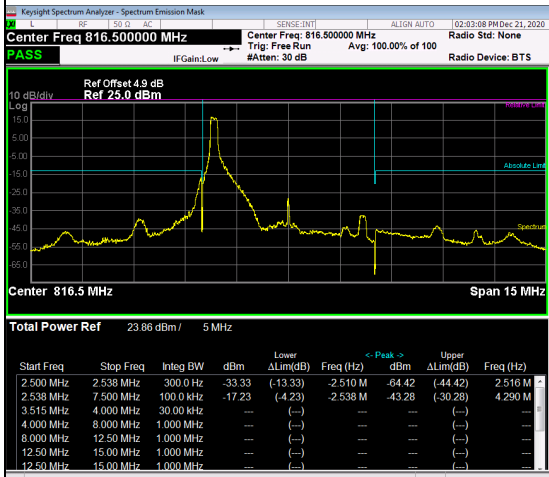




LTE Band 26_5M

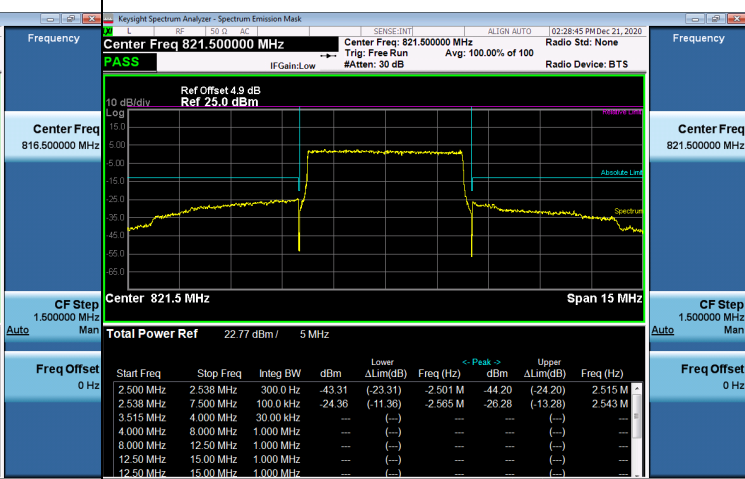
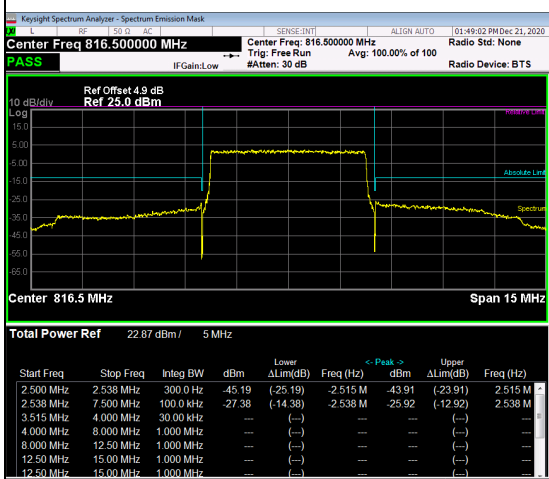
1RB#0		1RB#24	
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Channel	26715	Channel	26765
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25RB#0

Channel		26715		Channel		26765	
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LTE Band 26_10M

1RB#0

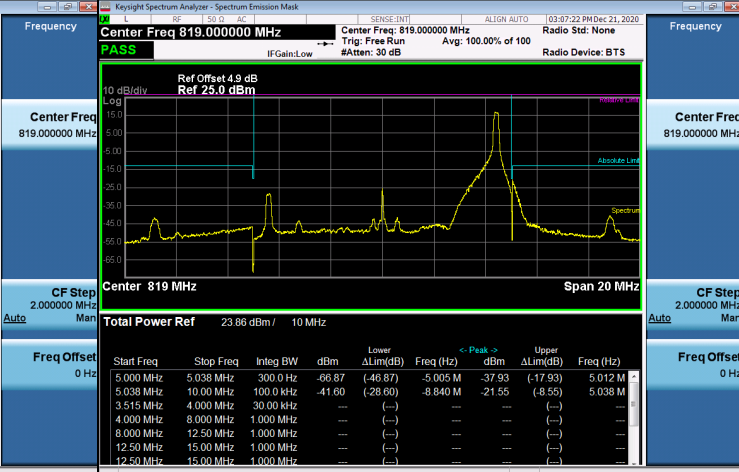
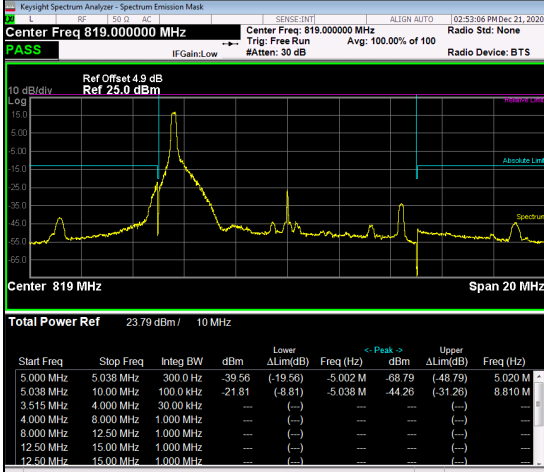
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Channel

26740

Channel

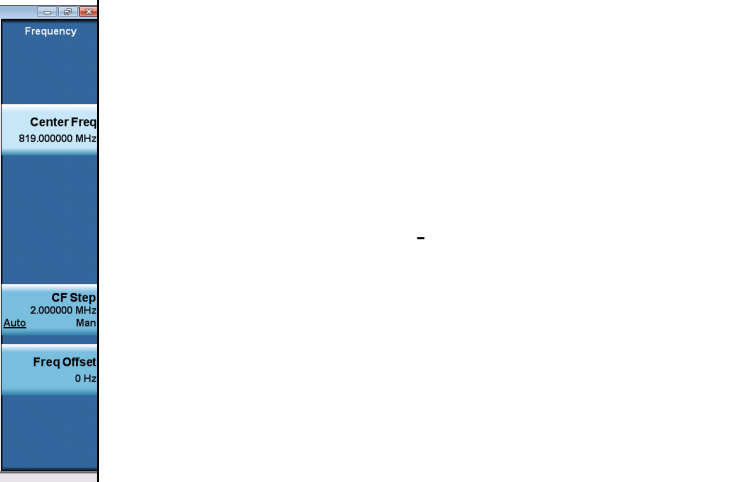
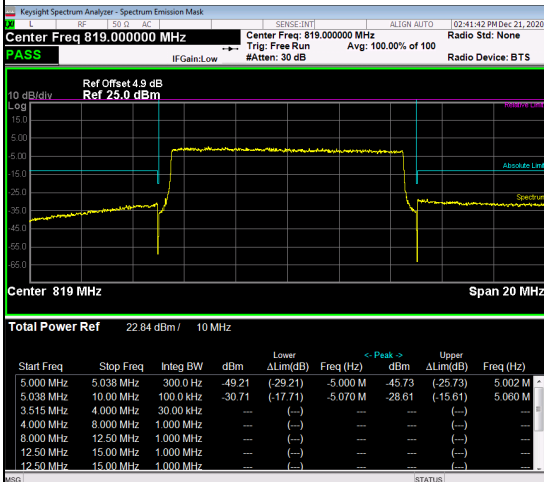
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50RB#0

Channel

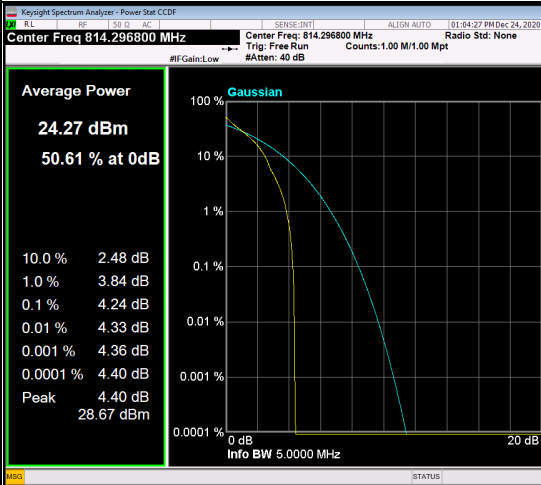
26740



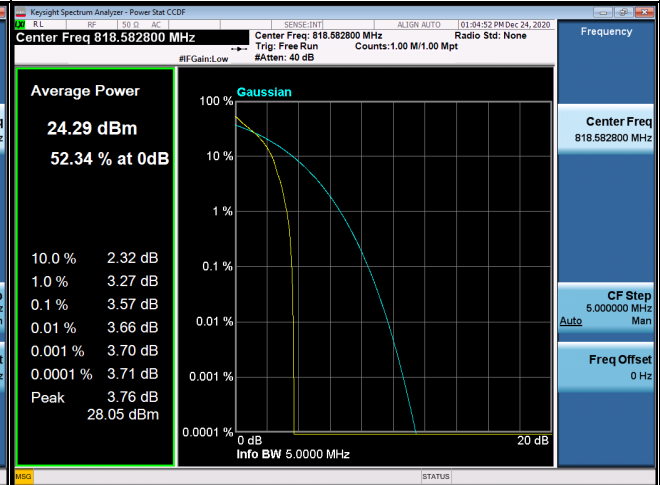
APPENDIX H - PEAK TO AVERAGE RATIO

LTE Band 26_1.4M Spectrum Plot

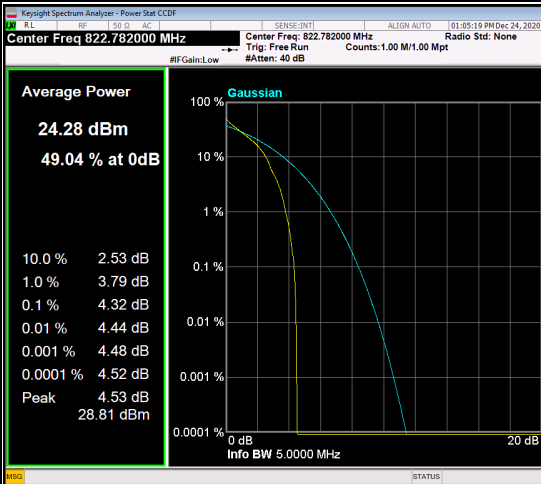
QPSK-26697



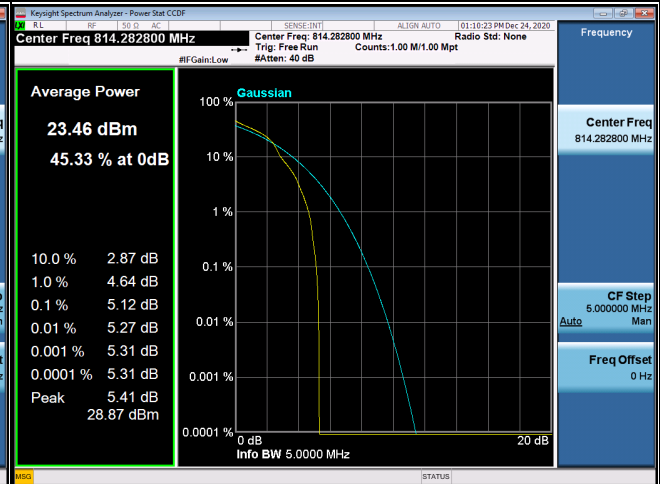
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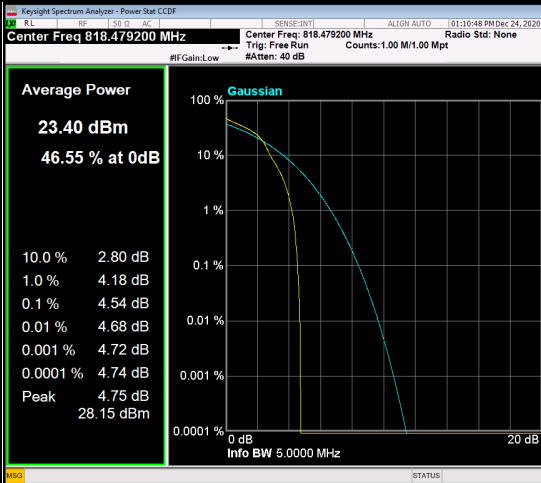
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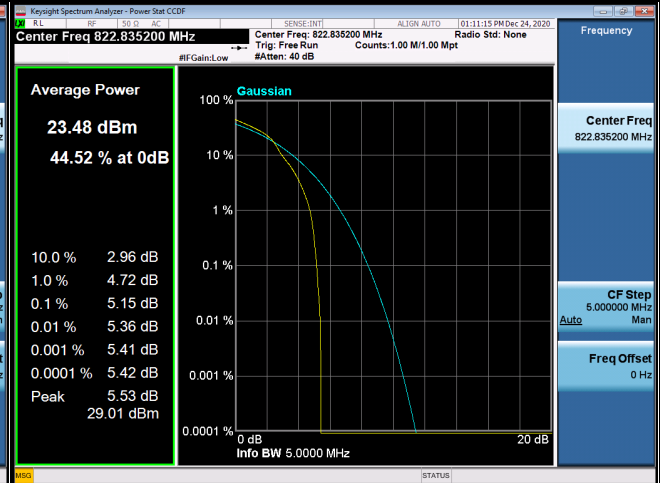
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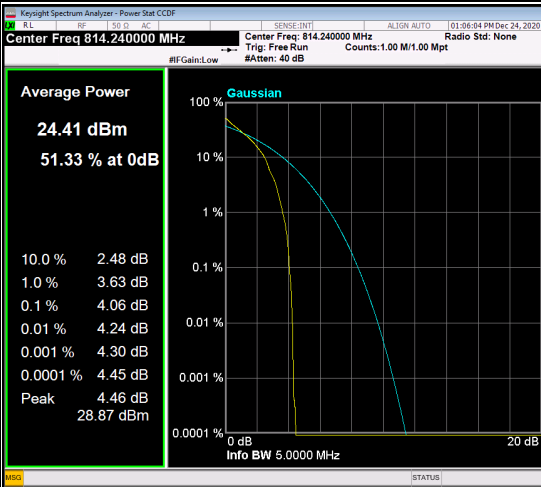


16QAM-26783

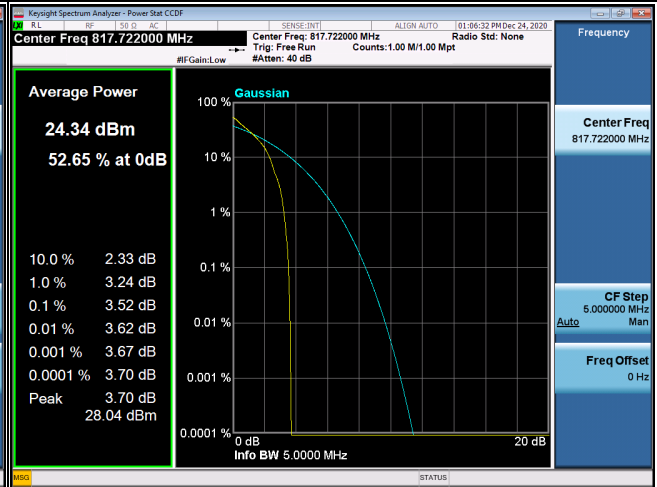


LTE Band 26_3M Spectrum Plot

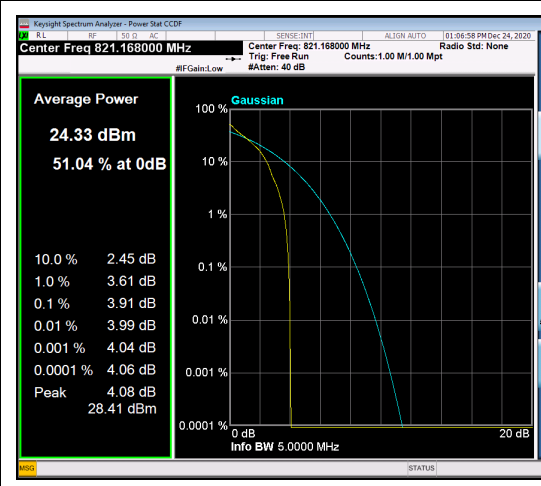
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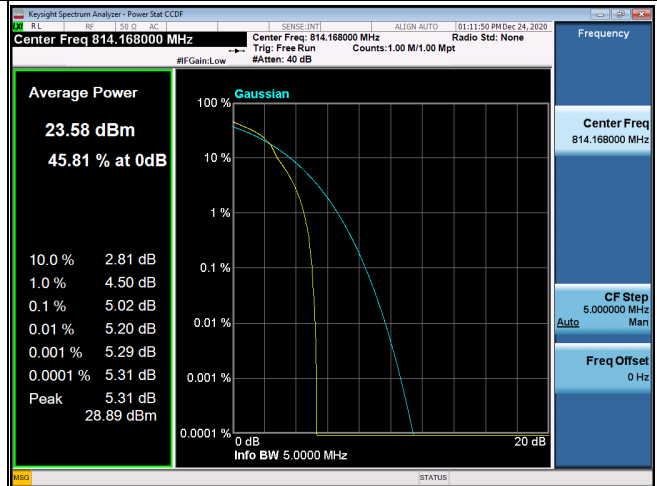
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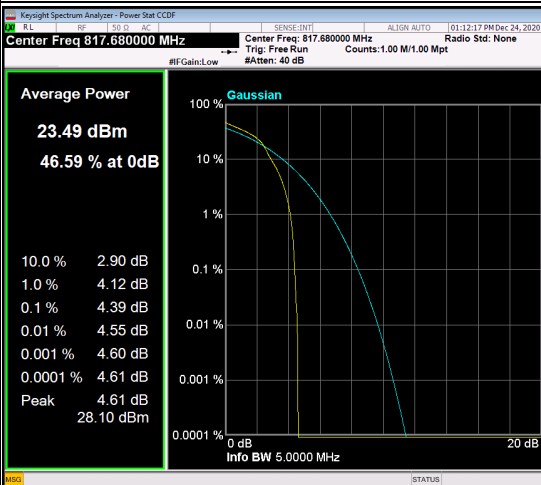
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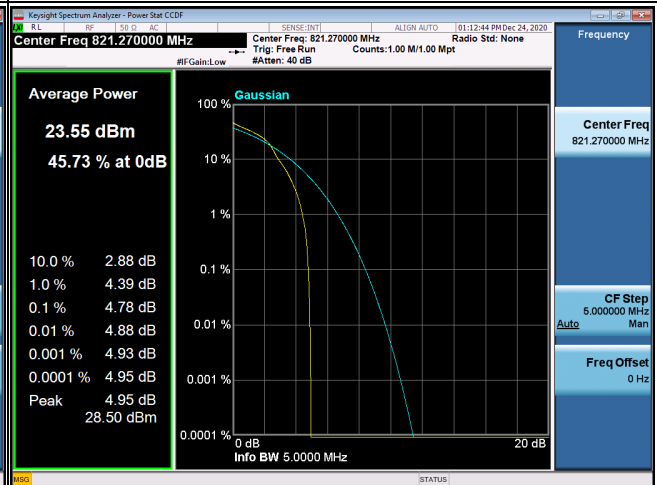
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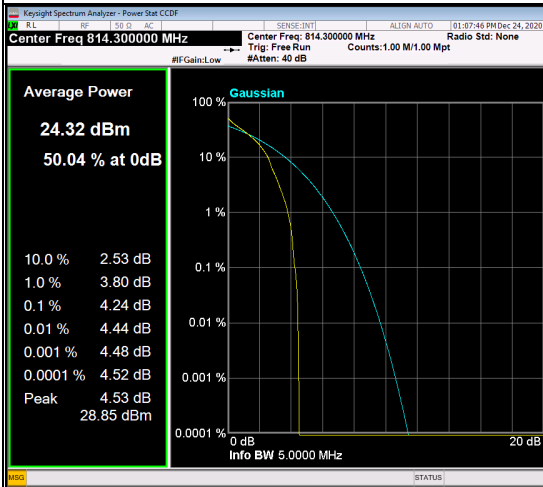


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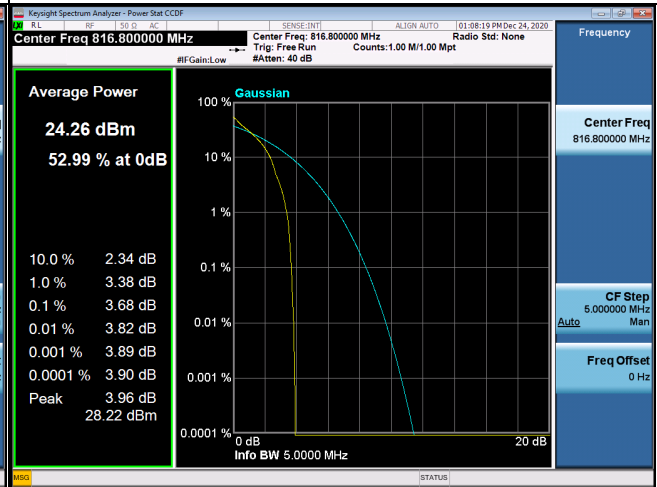


LTE Band 26_5M Spectrum Plot

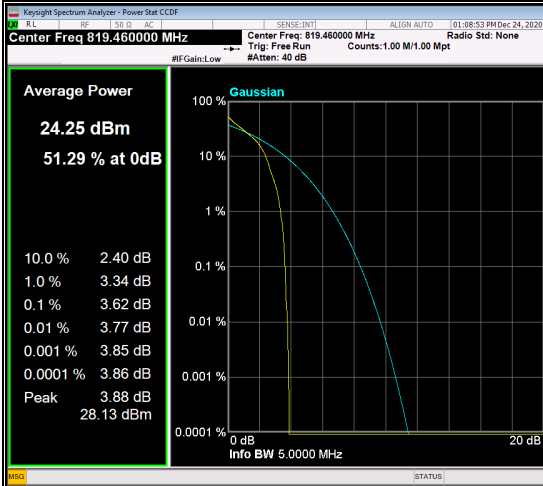
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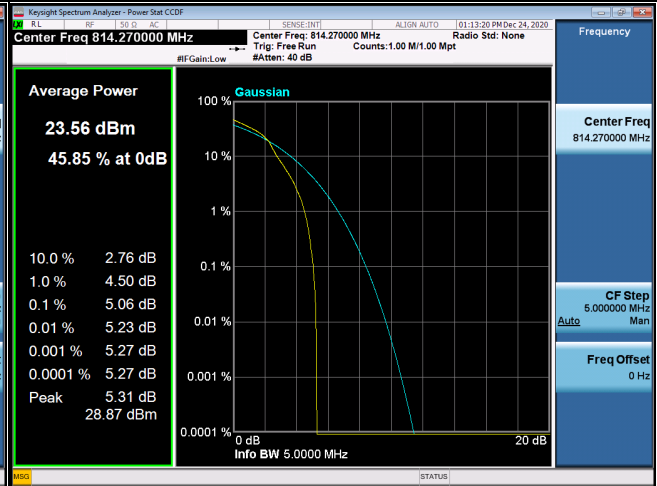
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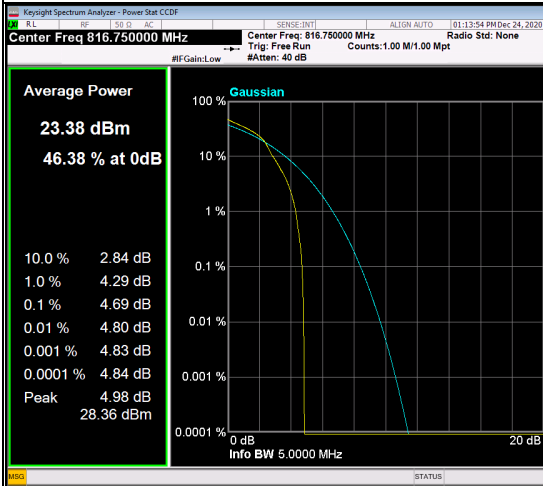
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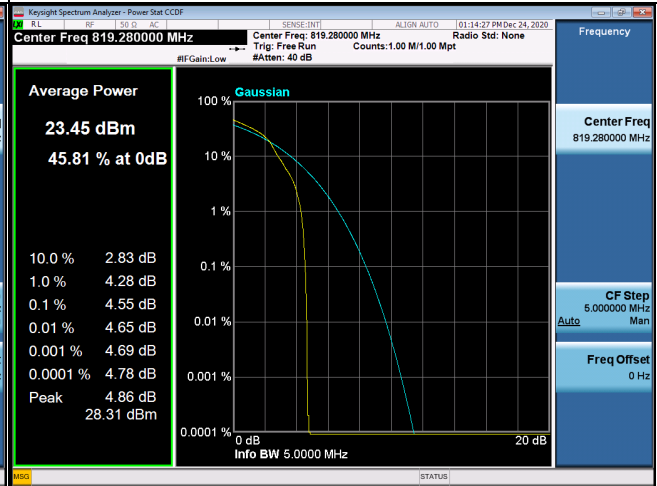
16QAM-26715



16QAM-26740



16QAM-26765



APPENDIX I - 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)
0	-6.25	-0.007631258	±2.5
5	4.94	0.006031746	
15	-6.24	-0.007619048	
25	-4.66	-0.005689866	
35	1.32	0.001611722	
Max. Deviation (ppm)	-6.25	-0.007631258	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	4.24	0.005177045	±2.5
3.87	-3.22	-0.003931624	
3.6	-5.87	-0.007167277	
Max. Deviation (ppm)	-5.87	-0.007167277	

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)
0	-4.81	-0.005873016	±2.5
5	5.16	0.006300366	
15	-6.29	-0.007680098	
25	2.31	0.002820513	
35	-5.76	-0.007032967	
Max. Deviation (ppm)	-6.29	-0.007680098	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	3.03	0.003699634	±2.5
3.87	-5.66	-0.006910867	
3.6	3.56	0.004346764	
Max. Deviation (ppm)	-5.66	-0.006910867	

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)
0	-6.38	-0.007789988	±2.5
5	-3.69	-0.004505495	
15	1.42	0.001733822	
25	-1.24	-0.001514042	
35	3.19	0.003894994	
Max. Deviation (ppm)	-6.38	-0.007789988	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	4.56	0.005567766	±2.5
3.87	2.32	0.002832723	
3.6	-1.71	-0.002087912	
Max. Deviation (ppm)	4.56	0.005567766	

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)
0	-6.21	-0.007582418	±2.5
5	-4.75	-0.005799756	
15	3.21	0.003919414	
25	-3.53	-0.004310134	
35	-5.17	-0.006312576	
Max. Deviation (ppm)	-6.21	-0.007582418	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.45	-3.98	-0.004859585	±2.5
3.87	1.86	0.002271062	
3.6	4.69	0.005726496	
Max. Deviation (ppm)	4.69	0.005726496	

End of Test Report