



FCC / ISED & Test Report

For: Telular Corporation

Brand: Telular

Marketing Name: SkyTank

Model Number: ST100

Product Description: Telematic Gateway for Communicating Measurement Data

FCC ID: MTFST1002

ISED: 2175D-ST1001

Applied Rules and Standards:

47 CFR Parts 27

RSS: 130 Issue 2, 139 Issue 4

REPORT #: TELUL_232_25001_FCC_27

DATE: 10/30/2025



**IC recognized #
3462B**

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CETECOM Inc. is a Delaware Corporation with Corporation number: 2905571

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1 Assessment

The following device as further described in section 3 of this report was evaluated against the applicable criteria specified in the Code of Federal Regulations Title 47 parts 27 and Industry Canada Standards RSS-GEN issue 5, RSS-130 issue 2 and RSS-139 issue 4.

There were no additions, deviations, or exclusions made from the test method.

Company Name	Product Description	Model No.
Telular Corporation	Telematic Gateway for Communicating Measurement Data	ST100

Report Authorized by:

Responsible for testing Laboratory:

2025-10-30	Compliance	Alvin, Ilarina (Director of EMC Services)	Alvin ILARINA	Digitally signed by Alvin ILARINA Date: 2025.11.04 14:07:45 -08'00'
Date	Section	Name	Signature	

Responsible for the Report:

2025-10-30	Compliance	Art Thammanavarat (Lead Engineer)	Art Thammanavarat	Digitally signed by: Art Thammanavarat DN: CN = Art Thammanavarat email = art.thammanavarat@cetecom. com C = AD Date: 2025.10.30 16:55:29 -07'00'
Date	Section	Name	Signature	

The test results of this test report relate exclusively to the test item specified in Section 3.

CETECOM Inc. USA does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of CETECOM Inc. USA.

2 Administrative Data

2.1 Identification of the Testing Laboratory Issuing the EMC Test Report

Company Name:	CETECOM Inc.
Department:	Compliance
Street Address:	411 Dixon Landing Road
City/Zip Code	Milpitas, CA 95035
Country	USA
Telephone:	+1 (408) 586 6200
Fax:	+1 (408) 586 6299
EMC Lab Manager:	Alvin, Ilarina
Responsible Project Leader:	Jayalakshmi, Sekar

2.2 Identification of the Client

Applicant's Name:	Telular Corporation
Street Address:	3225 Cumberland Blvd., Suite 300
City/Zip Code	Atlanta, GA 30339
Country	USA

2.3 Identification of the Manufacturer

Manufacturer's Name:	Same as Client
Manufacturers Address:	
City/Zip Code	
Country	

3 Equipment Under Test (EUT)

3.1 EUT Specifications

Model No	ST100
HW Version	B
SW Version	v2.60
FCC-ID	MFTST1002
ISED:	2175D-ST1001
HVIN:	ST1002
PMN:	SkyTank
Product Description	Telematic Gateway for Communicating Measurement Data
Bands/Modes Supported	<u>Cellular Modules</u> Model Name : Telit Model Number : ME910G1-W1 FCC: RI7ME910G1W1 ISED: 5131A-ME910G1W1 <u>Wireless Technologies</u> LTE FDD Band CAT-M: 4, 12, 13, 66
Frequency Range	<u>FCC BANDS</u> LTE Band 4: 1710 – 1755 MHz LTE Band 12: 699 – 716 MHz LTE Band 13: 777 – 787 MHz LTE Band 66: 1710 – 1780 MHz
Max. declared antenna gain	Brand Name: Ethertronics Part No: P822601 Type: Cellular LTE , IMD Antenna Location: External Peak Gain: • LTE Band 4, 66: 3.9 dBi • LTE Band 12: 1.1 dBi • LTE Band 13: 1.7 dBi
Power Supply/ Rated Operating Voltage Range	4VDC to 7.4VDC (internal battery; 4 Energizer L91 cell is 4S1P configuration)
Operating Temperature Range	Low: -20 °C - High +70 °C
Sample Revision	☐ Production ☒ Pre-Production
EUT Dimensions	190mm x 130mm x 45mm
EUT Diameter	☒ < 60 cm ☐ Other _____

Note: The information of the EUT specifications in the table above is provided by the client.

3.2 EUT Sample details

EUT #	IMEI Number	Serial Number	HW Version	SW Version	Comments
1	353340356779572	141A-01020	B	v2.60	-----

3.3 Accessory Equipment (AE) details

AE #	Type	Model	Manufacturer	Serial Number	Comments
1	Laptop	P135G	Dell	12243628947	Support laptop provided by Cetecom to exercise device.
2	Pre-Production	ST131	Telular Corporation	001	
3	TTL-232RG-VIP Cable	-	-	-	Debug

3.4 Test Sample Configuration

Set-up #	EUT / AE used for set-up	Comments
1	EUT#1 + AE 1, 2,3	Cellular was tested on LTE Low, Mid and High Channel at the maximum power. The client provides a TTL-232RG-VIP USB cable to communicate with the device and send commands for configuring the Cellular into a specific test mode. This test mode configuration, designed for worst-case scenarios, is not intended for end-user application and is outlined as follows: - Cellular: send AT commands to connect the EUT to the base station simulator (R&S CMW500) - EUT power by 6Vdc battery - The EUT connected to support laptop using TTL-232RG-VIP USB Cable provided by customer to exercise device. - Radiated RF measurements were performed with EUT configured via TerraTerm and customer provided instructions

3.5 Mode of Operation details

Mode of Operation	Description of Operating modes	Additional Information
Op. 1	Cellular	Cellular was tested on LTE Low, Mid and High Channel at the maximum power. The client provides a TTL-232RG-VIP USB cable to communicate with the device and send commands for configuring the Cellular into a specific test mode. This test mode configuration, designed for worst-case scenarios, is not intended for end-user application and is outlined as follows: • Cellular: send AT commands to connect the EUT to the base station simulator (R&S CMW500) • EUT power by 6Vdc battery • The EUT connected to support laptop using TTL-232RG-VIP USB Cable provided by customer to exercise device. • Radiated RF measurements were performed with EUT configured via TerraTerm and customer provided instructions

3.6 Justification for Worst Case Mode of Operation

During the testing process the EUT was tested with transmitter sets on low, mid and high channels at the maximum power simultaneous transmission., which is the worst case of the radios supported, based on the maximum average conducted output power from the reports.

For radiated measurements, all data in this report shows the worst case between horizontal and vertical antenna polarizations and for all orientations of the EUT.

4 Subject of Investigation

The objective of the measurements done by CETECOM Inc. was to evaluate the compliance of the EUT against the relevant requirements specified in the Code of Federal Regulations Title 47 parts 27 and ISED Standards RSS-130 issue 2 and RSS-139 Issue 4.

5 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus, with 95% confidence interval (in dB delta to result), based on a coverage factor k=2.

Radiated measurement

Measurement System		EMC Lab 1	EMC Lab 2
Conducted emissions (mains port)	150 kHz – 30 MHz	2.47 dB	N/A
Radiated emissions	9 kHz – 30 MHz	2.68 dB	2.53 dB
	30 – 100 MHz	4.39 dB	3.85 dB
	100 MHz – 1 GHz	5.65 dB	5.24 dB
	1 – 6 GHz	5.0 dB	4.88 dB
	6 – 18 GHz	4.76 dB	4.58 dB
	18 – 40 GHz	4.65 dB	4.61 dB

RF conducted measurement ± 0.5 dB

According to TR 102 273 a multiplicative propagation of error is assumed for RF measurement systems. For this reason the RMS method is applied to dB values and not to linear values as appropriate for additive propagation of error. Also used: <http://physics.nist.gov/cuu/Uncertainty/typeb.html>. The above calculated uncertainties apply to direct application of the Substitution method. The Substitution method is always used when the EUT comes closer than 3dB to the limit.

5.1 **Environmental Conditions During Testing:**

The following environmental conditions were maintained during the course of testing:

- Ambient Temperature: 20-25°C
- Relative humidity: 40-60%

5.2 **Dates of Testing:**

9/30/2025 - 10/8/2025

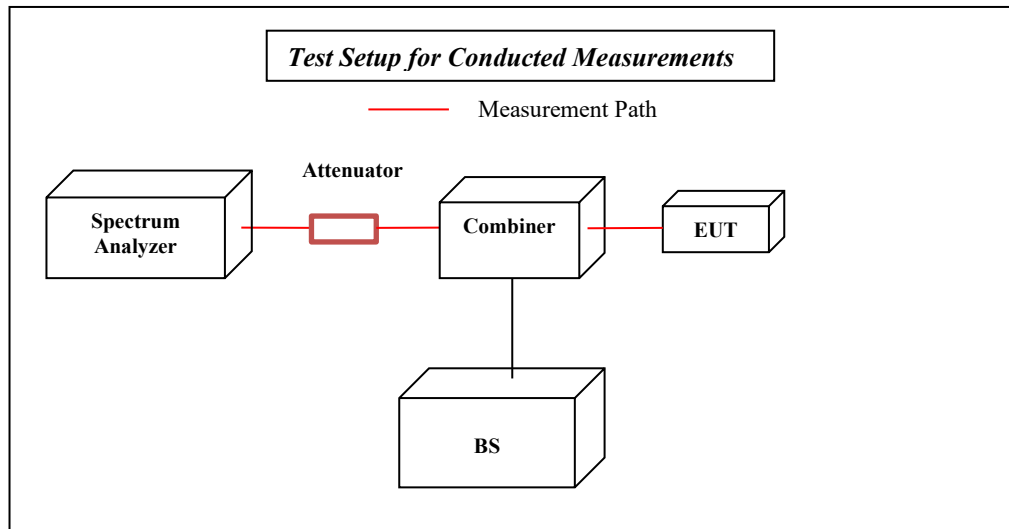
5.3 **Decision Rule:**

Cetecom Inc follows ILAC G8:09/2019 chapter 4.2.1 (Simple Acceptance Rule).

Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed in chapter 3. The measurement uncertainty is mentioned in this test report, See chapter 9, but is not taken into account – neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 5% that the decision might be wrong.

6 Measurement Procedures

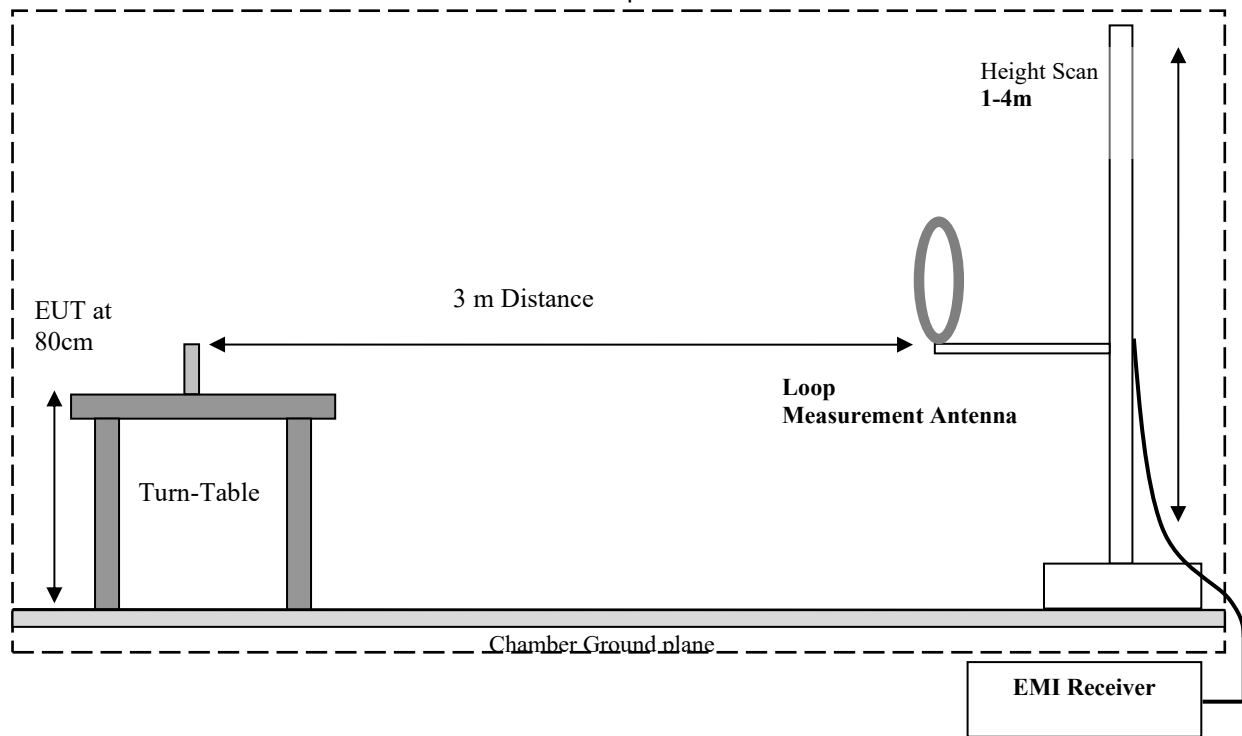
Testing is performed according to the guidelines provided in FCC publication (KDB) 971168 D01 v03r01 – “Measurement Guidance for Certification of Licensed Digital Transmitters” and according to relevant parts of ANSI/TIA-603-D-2010 as detailed below.



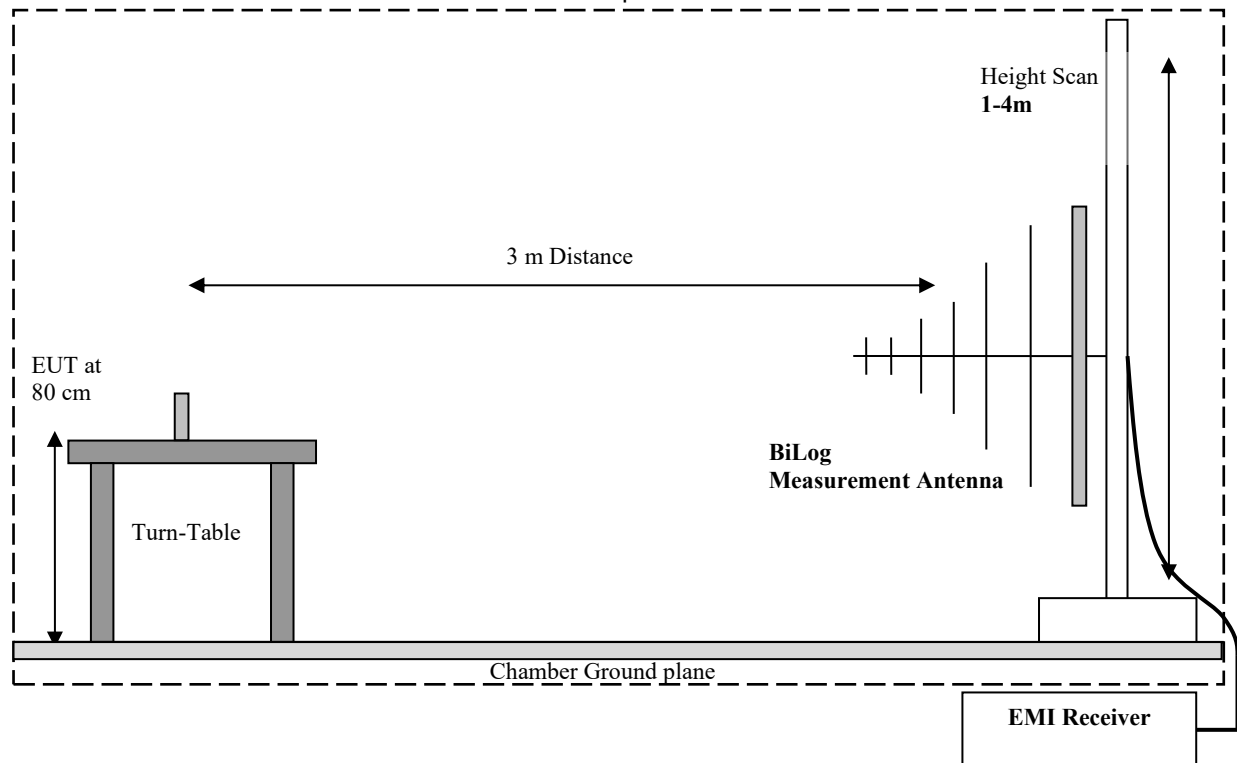
6.1 Radiated Measurement

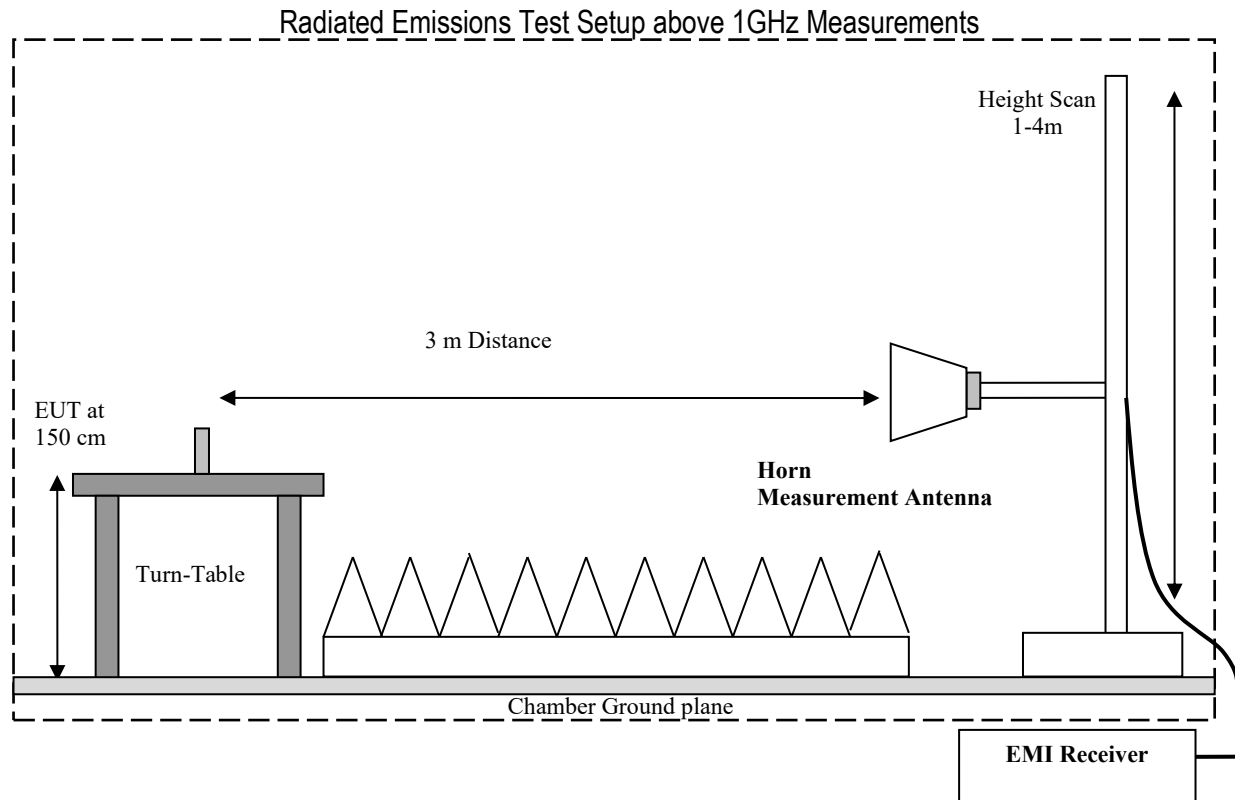
- The exploratory measurement is accomplished by running a matrix of 16 sweeps over the required frequency range with R&S Test-SW EMC32 for 4 positions of the turntable, two orthogonal positions of the EUT and both antenna polarizations. This procedure exceeds the requirement of the above standards to cover the 3 orthogonal axis of the EUT. A max peak detector is utilized during the exploratory measurement. The Test-SW creates an overall maximum trace for all 12 sweeps and saves the settings for each point of this trace. The maximum trace is part of the test report.
- The 10 highest emissions are selected with an automatic algorithm of EMC32 searching for peaks in the noise floor and ensuring that broadband signals are not selected multiple times.
- The maxima are then put through the final measurement and again maximized in a 90deg range of the turntable, fine search in frequency domain and height scan between 1m and 4m.
- The above procedure is repeated for all possible ways of power supply to EUT and for all supported modulations.
- In case there are no emissions above noise floor level only the maximum trace is reported as described above.
- The results are split up into up to 4 frequency ranges due to antenna bandwidth restrictions. A magnetic loop is used from 9 kHz to 30 MHz, a Biconilog antenna is used from 30 MHz to 1 GHz, and two different horn antennas are used to cover frequencies up to 40 GHz.

Radiated Emissions Test Setup below 30MHz Measurements



Radiated Emissions Test Setup 30MHz-1GHz Measurements





6.2 Sample Calculations for Field Strength Measurements

Field Strength is calculated from the Spectrum Analyzer/ Receiver readings, taking into account the following parameters:

- Measured reading in dB μ V
- Cable Loss between the receiving antenna and SA in dB and
- Antenna Factor in dB/m

All radiated measurement plots in this report are taken from a test SW that calculates the Field Strength based on the following equation:

$$FS \text{ (dB}\mu\text{V/m)} = \text{Measured Value on SA (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$$

Example:

Frequency (MHz)	Measured SA (dB μ V)	Cable Loss (dB)	Antenna Factor Correction (dB)	Field Strength Result (dB μ V/m)
1000	80.5	3.5	14	98.0

7 Measurement Results Summary

7.1 FCC 27 / RSS-130/ RSS-139

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§2.1046; §27.50 /RSS-130 Clause 4.6/ RSS-139 Clause 6.5	RF Output Power	Nominal	-	☐	☐	☐	☒	Complies Note 1 Note 2
§2.1047; §27.50, /RSS-130 Clause 4.2/ RSS-Clause 6.2	Modulation Characteristics	Nominal	-	☐	☐	☐	☒	Complies Note 1 Note 2
§2.1055; §27.54 /RSS-130 Clause 4.5 /RSS-Clause 6.4	Frequency Stability	Extreme Temperature and Voltage	-	☐	☐	☐	☒	Complies Note 1 Note 2
§2.1049; §27.53	Occupied Bandwidth	Nominal	-	☐	☐	☐	☒	Complies Note 1 Note 2
§2.1051; §27.53 /RSS-130 Clause 4.7/ RSS-Clause 6.6	Band Edge Compliance	Nominal	-	☐	☐	☐	☒	Complies Note 1 Note 2
§2.1051; §27.53 /RSS-130 Clause 4.7/ RSS-Clause 6.6	Conducted Spurious Emissions	Nominal	-	☐	☐	☐	☒	Complies Note 1 Note 2
§2.1053; §27.53 /RSS-130 Clause 4.7/ RSS-Clause 6.6	Radiated Spurious Emissions	Nominal	Op. 1	☒	☐	☐	☐	Complies

Note 1: NA= Not Applicable; NP= Not Performed.

Note 2: Leveraged from module certification Telit Communications S.p.A. ME910G1-W1 (FCC ID: RI7ME910G1W1, ISED: 5131A-ME910G1W1)

8 Test Result Data

8.1 ERP/EIRP

FCC Rule Parts	Band	Frequency Range	Power Conducted Note 1	Power Conducted	Gain	EIRP Note 2	ERP Note 2	Limit EIRP	Limit ERP
		(MHz)	(dBm)	(W)	(dBi)	(W)	(W)	(W)	(W)
27	LTE 4	1710 – 1755	21.16	0.131	3.90	0.321	0.196	1	-
27	LTE 12	699 – 716	21.6	0.145	1.10	0.186	0.114	-	3
27	LTE 13	777 – 787	21.39	0.138	1.70	0.204	0.124	-	3
27	LTE 66	1710 – 1780	21.91	0.155	3.90	0.381	0.232	1	-

Note 1: Power Conducted (dBm) leveraged from test report "50289118 002" prepared by TUV Rheinland (Shenzhen) Co., Ltd. Branch of cellular module Telit Communications S.p.A., ME910G1-W1 (FCC ID: RI7ME910G1W1, ISED: 5131A-ME910G1W1).

Note 2: ERP/EIRP are based on calculations from Power Conducted by adding the declared maximum gain of the utilized cellular antenna per operational description.

8.2 Radiated Spurious Emissions

8.2.1 Measurement utilizing KDB 971168 D01 Power Meas License Digital Systems v03r01, and according to ANSI/TIA-603-E-2016

Spectrum Analyzer Settings for FCC 22

Frequency Range	30MHz – 1 GHz	1 – 1.58 GHz	1.58 – 9 GHz
Resolution Bandwidth	100 kHz	1 MHz	1 MHz
Video Bandwidth	100 kHz	1 MHz	1 MHz
Detector	Peak	Peak	Peak
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep Time	Auto	Auto	Auto

Spectrum Analyzer Settings for FCC 24 and 27

Frequency Range	30MHz – 1 GHz	1 – 2.7 GHz	2.7 – 18 GHz	18 – 19.1 GHz
Resolution Bandwidth	100 kHz	1 MHz	1 MHz	1 MHz
Video Bandwidth	100 kHz	1 MHz	1 MHz	1 MHz
Detector	Peak	Peak	Peak	Peak
Trace Mode	Max Hold	Max Hold	Max Hold	Max Hold
Sweep Time	Auto	Auto	Auto	Auto

8.2.2 Limits:

8.2.2.1 FCC Part 22.917 (a); FCC Part 24.238 (a); FCC Part 27.53 (h)

Out of band emissions. 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.

For Band 7 & 41, the minimum permissible attenuation level of any spurious emission is at least $55 + \log_{10}(P)$ [Watts]) on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.

8.2.2.2 RSS-132 Part 5.5; RSS-133 Part 5.6; RSS-139 Part 5.6; RSS-199 Part 5.6 Transmitter Unwanted Emissions

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

i. In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).

ii. After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

Note: The limit calculation result is a constant of -13 dBm.

Note: For LTE Band 7 and 41, the limit calculation result is a constant of -25 dBm

8.2.3 Test conditions and setup:

Ambient Temperature (°C)	EUT Set-Up #	EUT operating mode	Power Input
22.0	1	Op. 1	6 VDC

8.2.4 Measurement result:

Plot #	Cellular Uplink Operating Channel	EUT Operating Mode	Scan Frequency	Limit (dBm)	Result
1-9	Low	LTE B4	30 MHz – 18 GHz	-13	Pass
	Mid	LTE B4	30 MHz – 18 GHz	-13	Pass
	High	LTE B4	30 MHz – 18 GHz	-13	Pass
10-18	Low	LTE B12	30 MHz – 18 GHz	-13	Pass
	Mid	LTE B12	30 MHz – 18 GHz	-13	Pass
	High	LTE B12	30 MHz – 18 GHz	-13	Pass
19-27	Low	LTE B13	30 MHz – 18 GHz	-13	Pass
	Mid	LTE B13	30 MHz – 18 GHz	-13	Pass
	High	LTE B13	30 MHz – 18 GHz	-13	Pass
28-36	Low	LTE B66	30 MHz – 18 GHz	-13	Pass
	Mid	LTE B66	30 MHz – 18 GHz	-13	Pass
	High	LTE B66	30 MHz – 18 GHz	-13	Pass

8.2.5 Measurement plots:

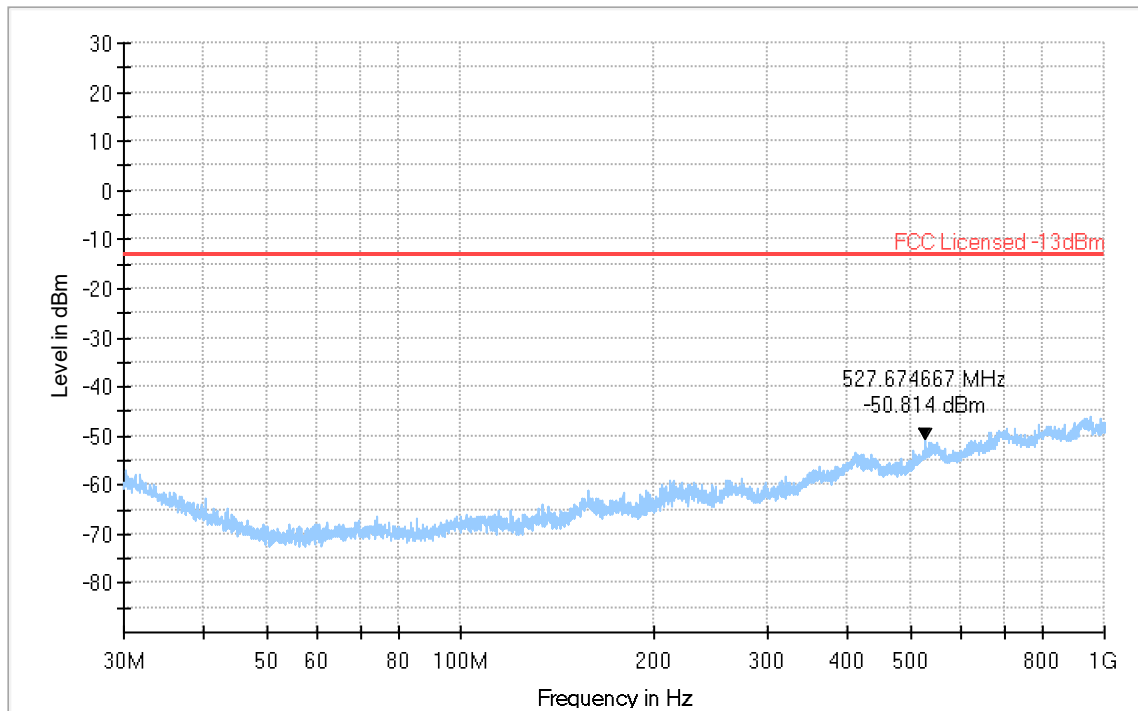
8.2.5.1 LTE Band 4

Plot # 1 Radiated Emissions: 30 MHz – 1GHz

Channel: Low

Final Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (h)	Height	Pol	Azimuth	Corr. (dB)	Comment
---	---	---	---	---	---	---	---	---	---	---	---



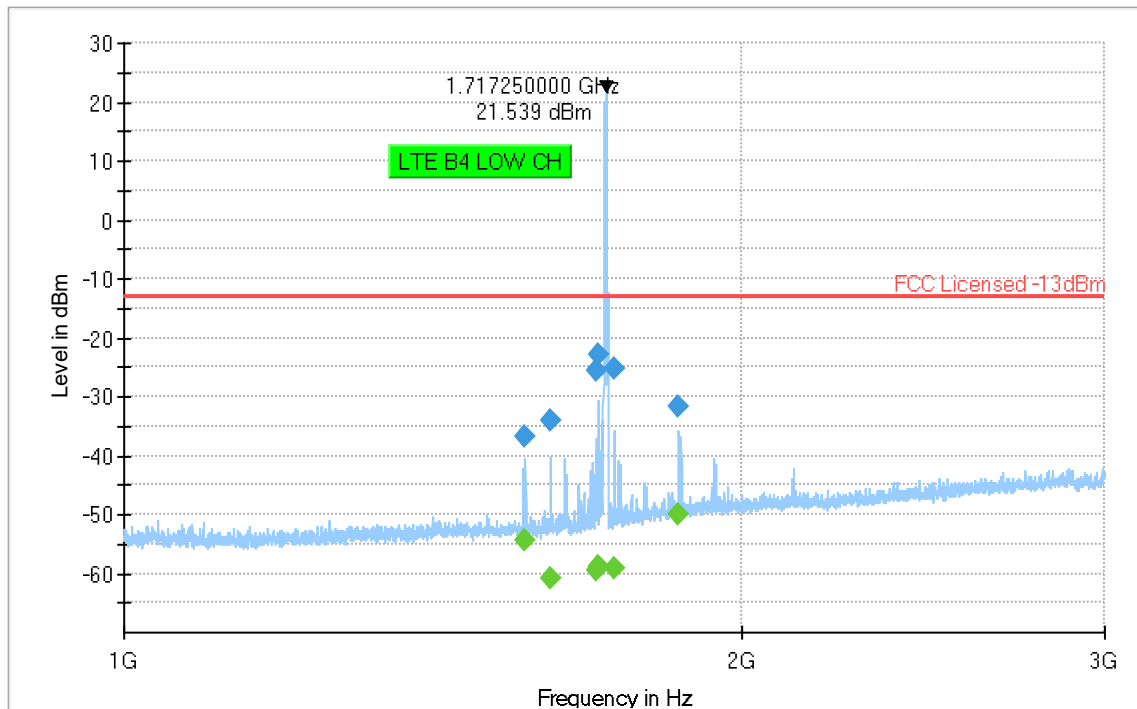
◆ RMS_MAXH Final_Result PK+ ◆ PK+_MAXH Final_Result RMS — FCC Licensed -13dBm

Plot # 2 Radiated Emissions: 1 GHz - 3 GHz

Channel: Low

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (h)	Height (t)	Pol	Azimuth (h)	Corr. (dB)	Comment
1568.000	---	-54.38	---	---	500.0	1000.0	212.0	H	141.0	-66.0	
1568.000	-36.82	---	-13.00	23.82	500.0	1000.0	212.0	H	141.0	-66.0	
1613.500	---	-60.98	---	---	500.0	1000.0	231.0	H	46.0	-65.9	
1613.500	-34.09	---	-13.00	21.09	500.0	1000.0	231.0	H	46.0	-65.9	
1696.750	---	-59.45	---	---	500.0	1000.0	133.0	H	276.0	-65.0	
1696.750	-25.73	---	-13.00	12.73	500.0	1000.0	133.0	H	276.0	-65.0	
1702.000	---	-58.97	---	---	500.0	1000.0	253.0	H	285.0	-64.9	
1702.000	-22.72	---	-13.00	9.72	500.0	1000.0	253.0	H	285.0	-64.9	
1732.000	---	-59.18	---	---	500.0	1000.0	297.0	H	277.0	-64.6	
1732.000	-25.10	---	-13.00	12.10	500.0	1000.0	297.0	H	277.0	-64.6	
1862.000	---	-50.02	---	---	500.0	1000.0	203.0	H	291.0	-63.8	
1862.000	-31.61	---	-13.00	18.61	500.0	1000.0	203.0	H	291.0	-63.8	



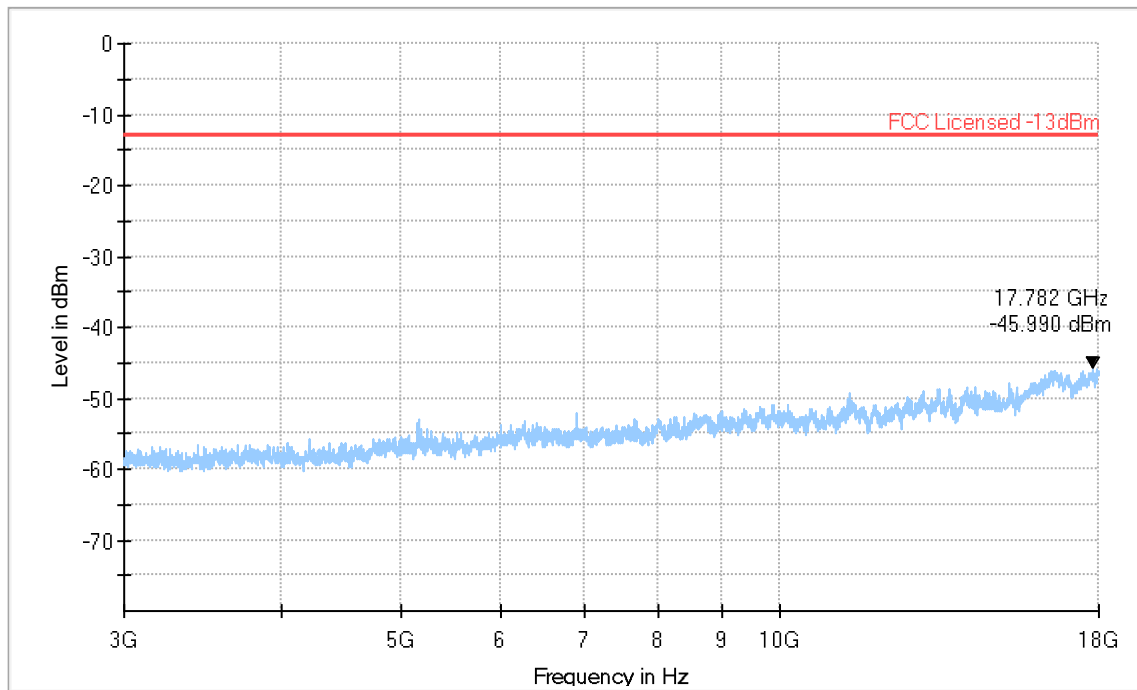
◆ RMS_MAXH Final_Result PK+ ◆ PK+_MAXH Final_Result RMS — FCC Licensed -13dBm

Plot # 3 Radiated Emissions: 3 GHz – 18 GHz

Channel: Low

Final Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB)	Comment
---	---	---	---	---	---	---	---	---	---	---	---



— RMS_MAXH
* Critical_Freqs PK+
◆ Final_Result RMS

— PK+_MAXH
— FCC Licensed -13dBm

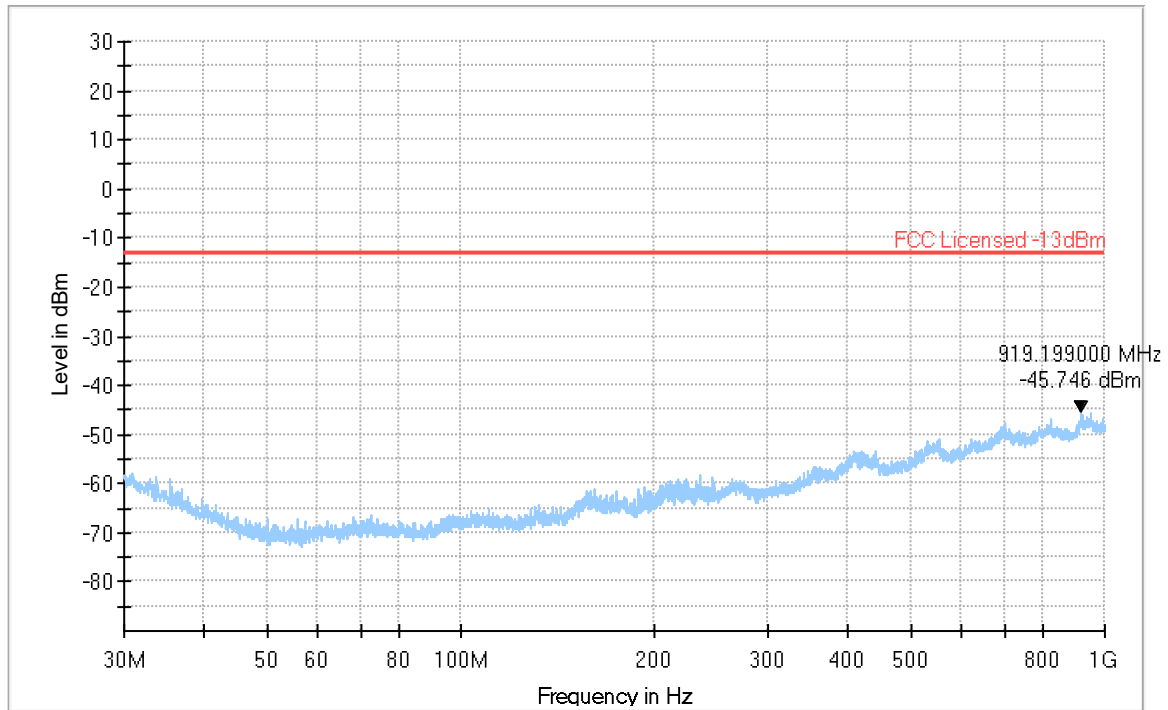
* Critical_Freqs RMS
◆ Final_Result PK+

Plot # 4 Radiated Emissions: 30 MHz – 1GHz

Channel: Mid

Final Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB)	Comment
---	---	---	---	---	---	---	---	---	---	---	---



— RMS_MAXH
◆ Final_Result PK+

— PK+_MAXH
◆ Final_Result RMS

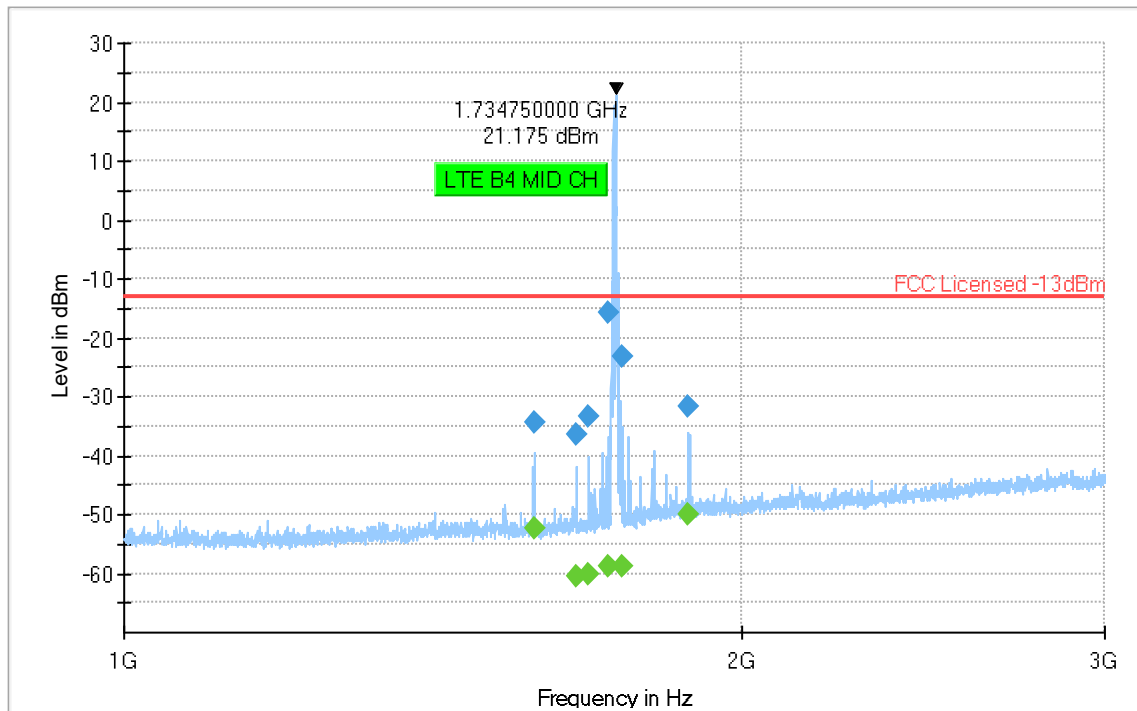
— FCC Licensed -13dBm

Plot # 5 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB)	Comment
1583.750	---	-52.52	---	---	500.0	1000.0	163.0	H	260.0	-66.0	
1583.750	-34.39	---	-13.00	21.39	500.0	1000.0	163.0	H	260.0	-66.0	
1659.250	---	-60.43	---	---	500.0	1000.0	265.0	V	62.0	-65.6	
1659.250	-36.42	---	-13.00	23.42	500.0	1000.0	265.0	V	62.0	-65.6	
1681.750	---	-60.18	---	---	500.0	1000.0	320.0	H	273.0	-65.2	
1681.750	-33.29	---	-13.00	20.29	500.0	1000.0	320.0	H	273.0	-65.2	
1720.750	---	-58.76	---	---	500.0	1000.0	142.0	H	-38.0	-64.7	
1720.750	-15.76	---	-13.00	2.76	500.0	1000.0	142.0	H	-38.0	-64.7	
1748.000	---	-58.93	---	---	500.0	1000.0	178.0	H	269.0	-64.5	
1748.000	-23.22	---	-13.00	10.22	500.0	1000.0	178.0	H	269.0	-64.5	
1881.000	---	-50.00	---	---	500.0	1000.0	100.0	H	302.0	-63.6	
1881.000	-31.63	---	-13.00	18.63	500.0	1000.0	100.0	H	302.0	-63.6	



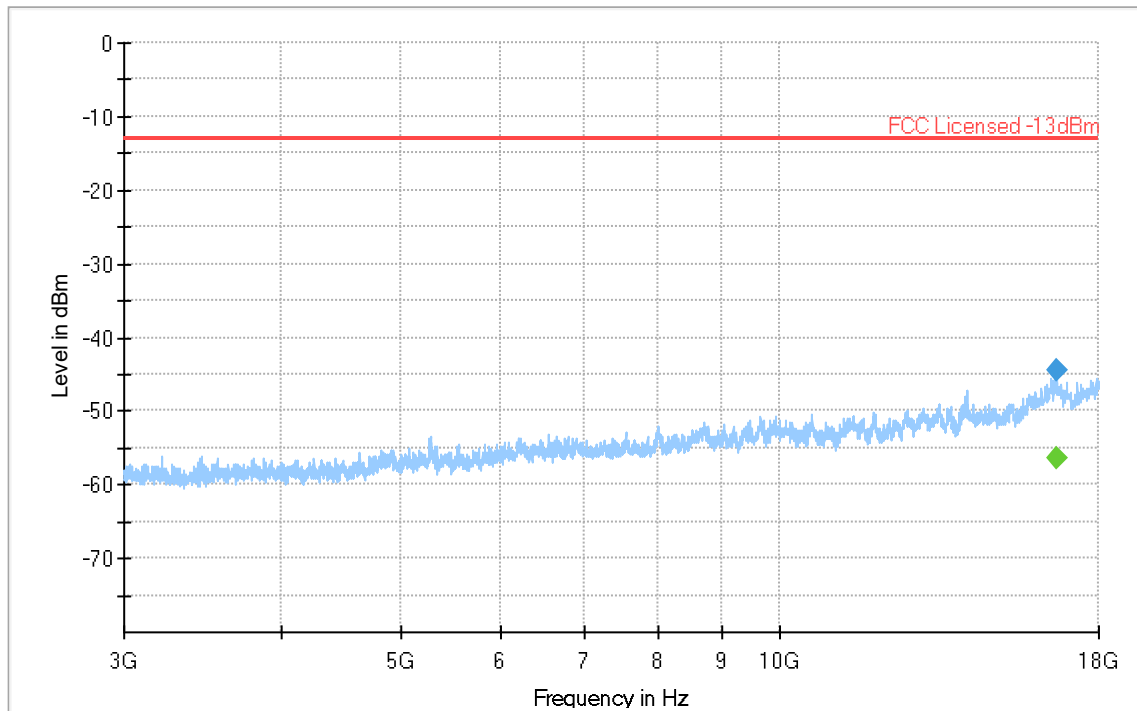
◆ RMS_MAXH Final_Result PK+
 ◆ PK+_MAXH Final_Result RMS
 — FCC Licensed -13dBm

Plot # 6 Radiated Emissions: 3 GHz – 18 GHz

Channel: Mid

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB)	Comment
16681.00	---	56.27634 213	---	---	500.0	1000.0	166.0	V	63.0	-80.8	
16681.00	44.44572 232	---	-13.00	31.45	500.0	1000.0	166.0	V	63.0	-80.8	

RMS_MAXH
Final_Result PK+PK+_MAXH
Final_Result RMS

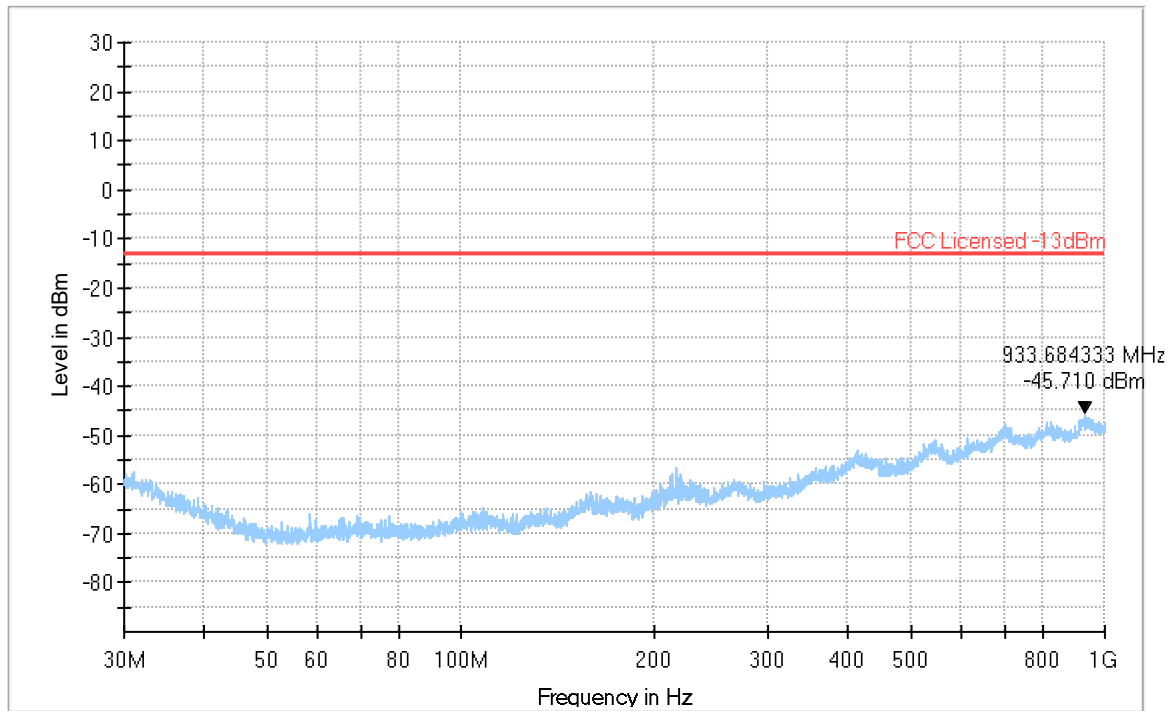
FCC Licensed -13dBm

Plot # 7 Radiated Emissions: 30 MHz – 1GHz

Channel: High

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB)	Comment
---	---	---	---	---	---	---	---	---	---	---	---

RMS_MAXH
Final_Result PK+PK+_MAXH
Final_Result RMS

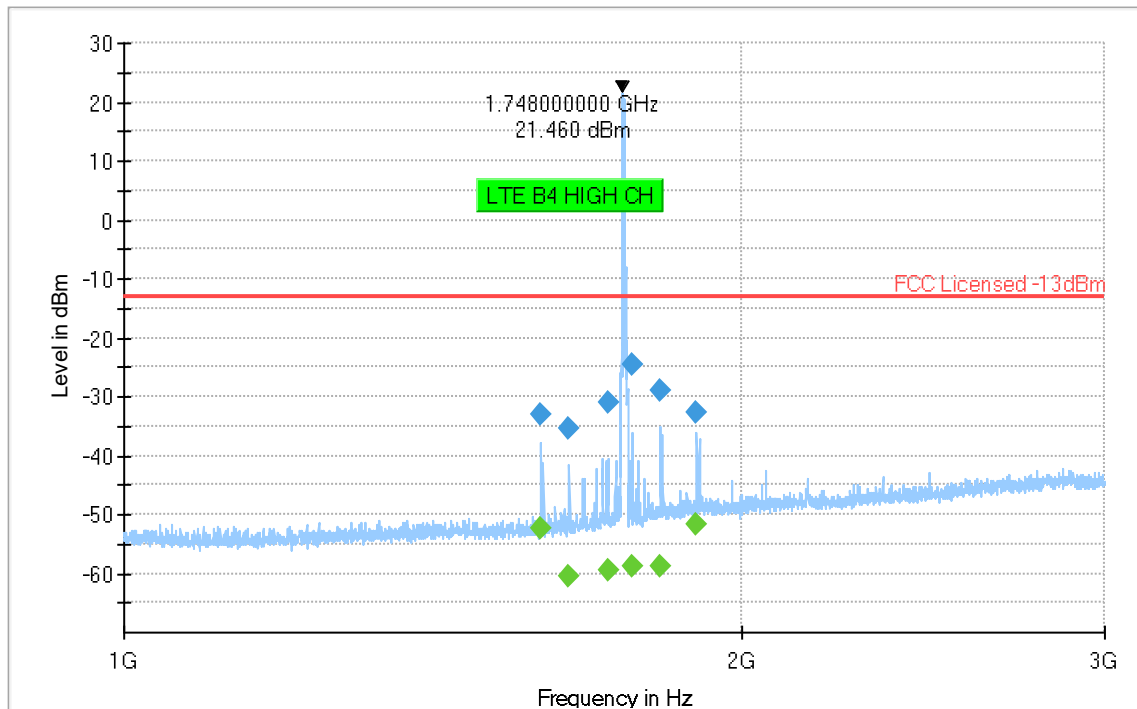
FCC Licensed -13dBm

Plot # 8 Radiated Emissions: 1 GHz - 3 GHz

Channel: High

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB)	Comment
1596.000	---	-52.37	---	---	500.0	1000.0	166.0	H	260.0	-66.0	
1596.000	-32.95	---	-13.00	19.95	500.0	1000.0	166.0	H	260.0	-66.0	
1646.500	---	-60.63	---	---	500.0	1000.0	323.0	V	333.0	-65.7	
1646.500	-35.30	---	-13.00	22.30	500.0	1000.0	323.0	V	333.0	-65.7	
1719.250	---	-59.59	---	---	500.0	1000.0	192.0	H	144.0	-64.7	
1719.250	-30.94	---	-13.00	17.94	500.0	1000.0	192.0	H	144.0	-64.7	
1765.750	---	-58.82	---	---	500.0	1000.0	100.0	H	138.0	-64.5	
1765.750	-24.71	---	-13.00	11.71	500.0	1000.0	100.0	H	138.0	-64.5	
1824.000	---	-58.70	---	---	500.0	1000.0	130.0	H	140.0	-64.2	
1824.000	-28.84	---	-13.00	15.84	500.0	1000.0	130.0	H	140.0	-64.2	
1899.750	---	-51.56	---	---	500.0	1000.0	140.0	H	302.0	-63.5	
1899.750	-32.71	---	-13.00	19.71	500.0	1000.0	140.0	H	302.0	-63.5	



◆ RMS_MAXH
Final_Result PK+

◆ PK+_MAXH
Final_Result RMS

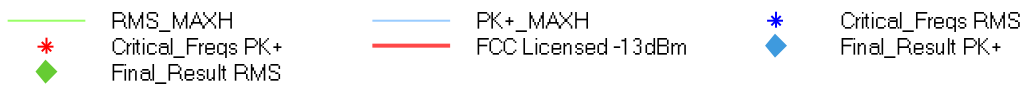
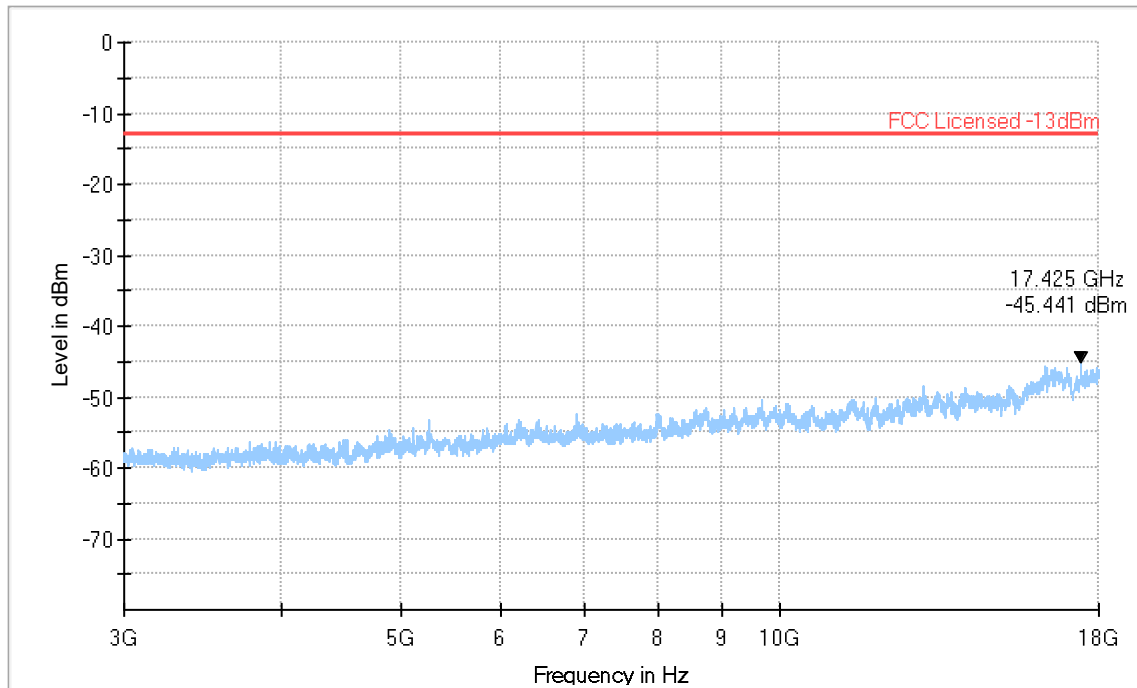
— FCC Licensed -13dBm

Plot # 9 Radiated Emissions: 3 GHz – 18 GHz

Channel: High

Final Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB)	Comment
---	---	---	---	---	---	---	---		---	---	



8.2.6 Measurement plots:

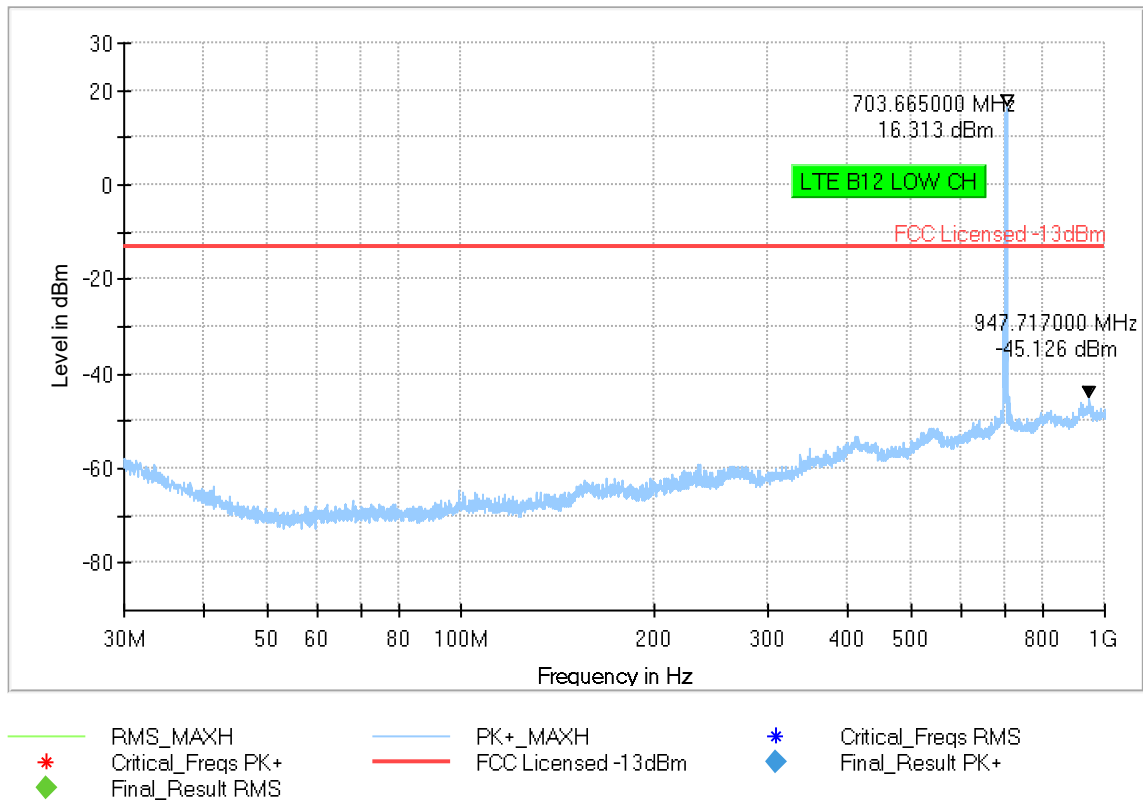
8.2.6.1 LTE Band 12

Plot # 10 Radiated Emissions: 30 MHz – 1GHz

Channel: Low

Final Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB)	Comment
---	---	---	---	---	---	---	---	---	---	---	---

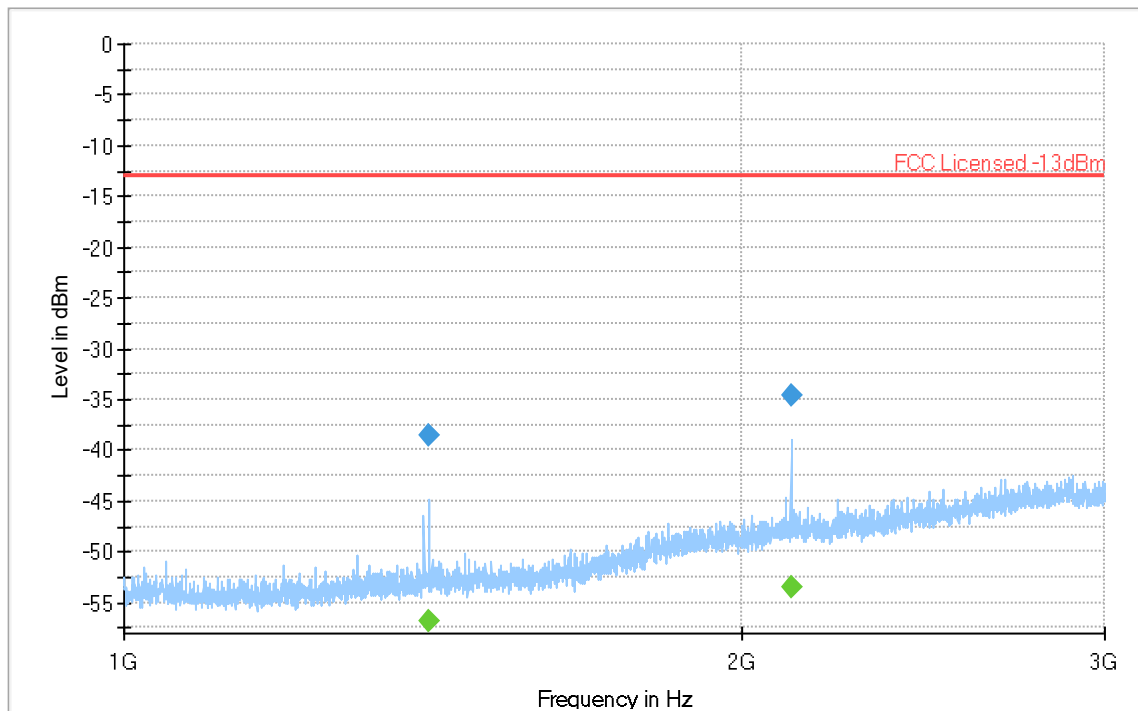


Plot # 11 Radiated Emissions: 1 GHz - 3 GHz

Channel: Low

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB)	Comment
1407.250	-38.48	---	-13.00	25.48	500.0	1000.0	100.0	H	306.0	-66.2	
1407.250	---	-56.83	---	---	500.0	1000.0	100.0	H	306.0	-66.2	
2111.000	-34.66	---	-13.00	21.66	500.0	1000.0	100.0	H	292.0	-62.7	
2111.000	---	-53.44	---	---	500.0	1000.0	100.0	H	292.0	-62.7	

RMS_MAXH
Final_Result PK+PK+_MAXH
Final_Result RMS

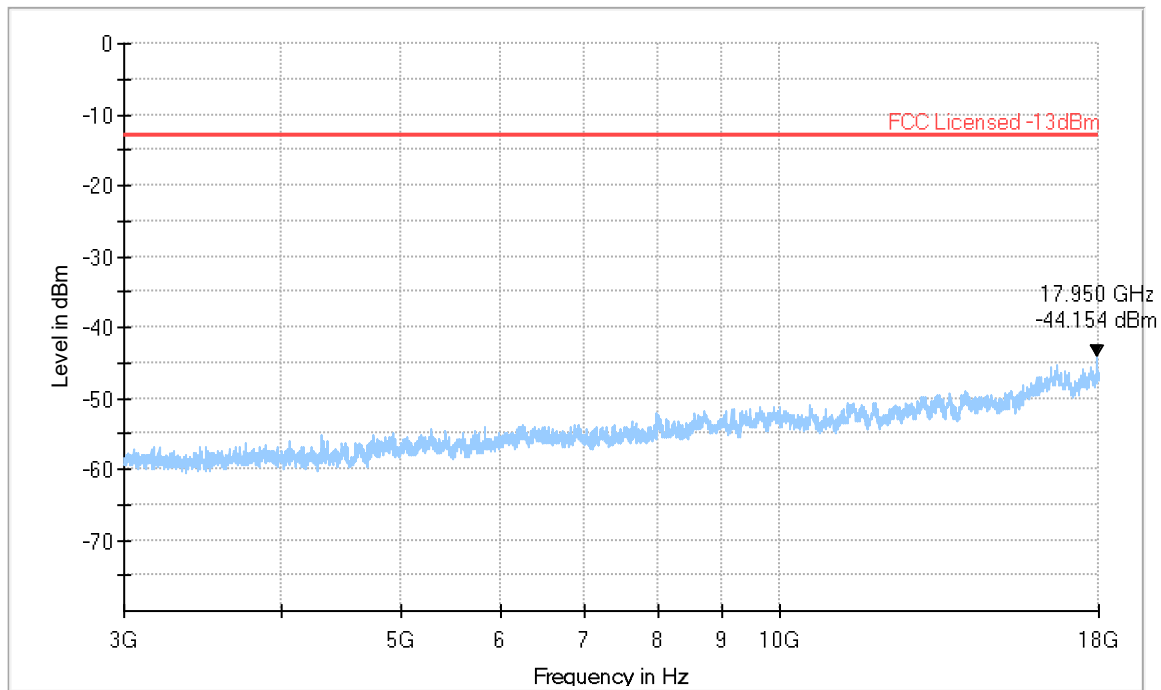
FCC Licensed -13dBm

Plot # 12 Radiated Emissions: 3 GHz – 18 GHz

Channel: Low

Final Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB)	Comment
---	---	---	---	---	---	---	---	---	---	---	---



— RMS_MAXH
* Critical_Freqs PK+
◆ Final_Result RMS

— PK+_MAXH
— FCC Licensed -13dBm

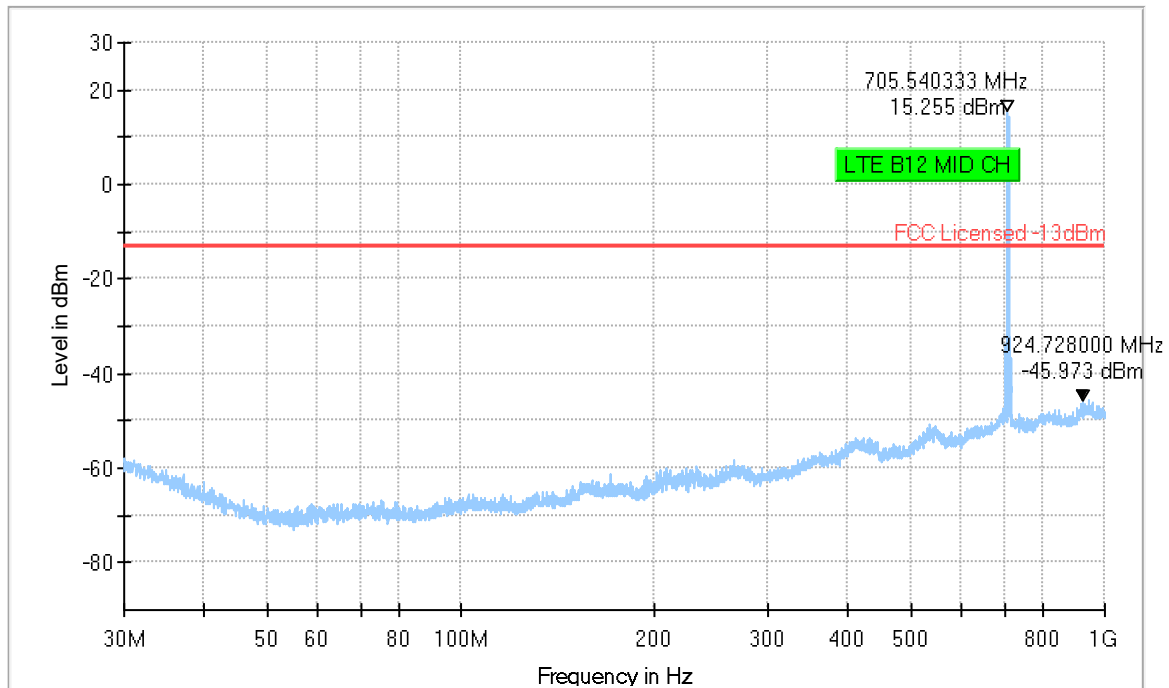
* Critical_Freqs RMS
◆ Final_Result PK+

Plot # 13 Radiated Emissions: 30 MHz – 1GHz

Channel: Mid

Final Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB)	Comment
---	---	---	---	---	---	---	---	---	---	---	---



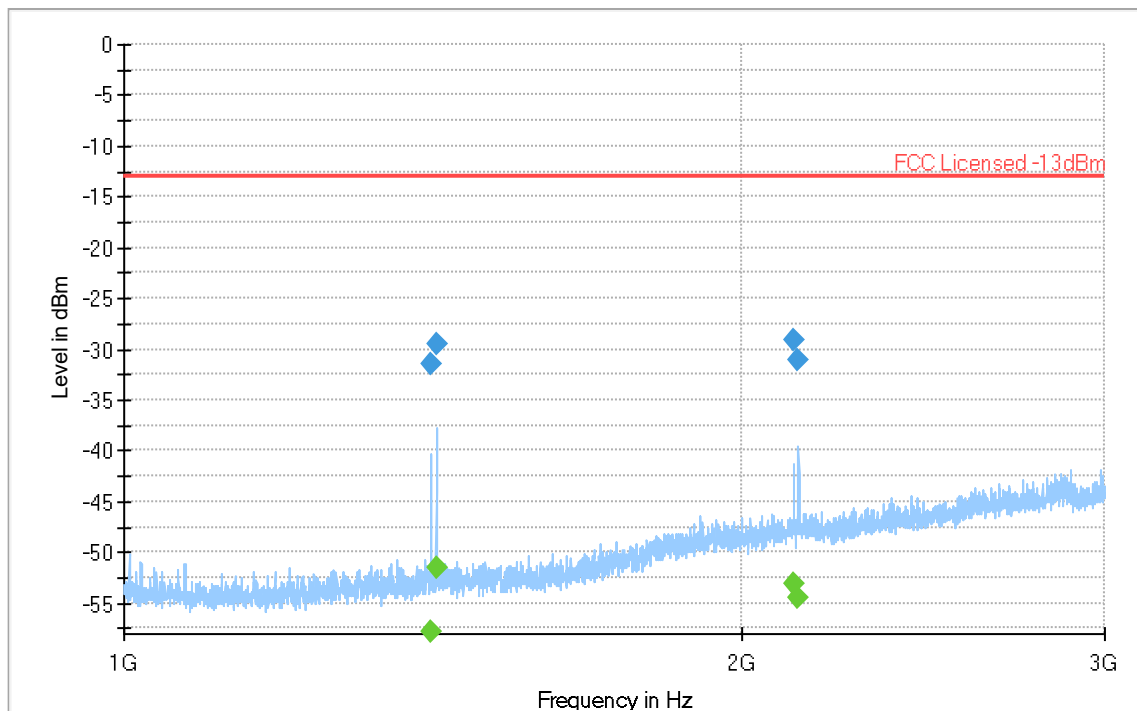
— RMS_MAXH — PK+_MAXH * Critical_Freqs RMS
* Critical_Freqs PK+ — FCC Licensed -13dBm ◆ Final_Result PK+
◆ Final_Result RMS

Plot # 14 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height (m)	Pol	Azimuth (deg)	Corr. (dB)	Comment
1410.500	---	-57.76	---	---	500.0	1000.0	100.0	H	43.0	-66.1	
1410.500	-31.41	---	-13.00	18.41	500.0	1000.0	100.0	H	43.0	-66.1	
1419.250	-29.40	---	-13.00	16.40	500.0	1000.0	142.0	V	145.0	-66.1	
1419.250	---	-51.51	---	---	500.0	1000.0	142.0	V	145.0	-66.1	
2116.250	---	-53.03	---	---	500.0	1000.0	144.0	H	276.0	-62.7	
2116.250	-29.11	---	-13.00	16.11	500.0	1000.0	144.0	H	276.0	-62.7	
2129.250	-31.14	---	-13.00	18.14	500.0	1000.0	107.0	H	231.0	-62.7	
2129.250	---	-54.51	---	---	500.0	1000.0	107.0	H	231.0	-62.7	



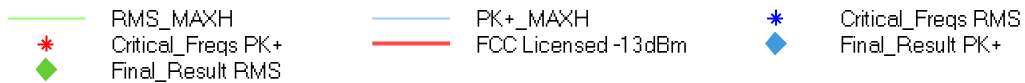
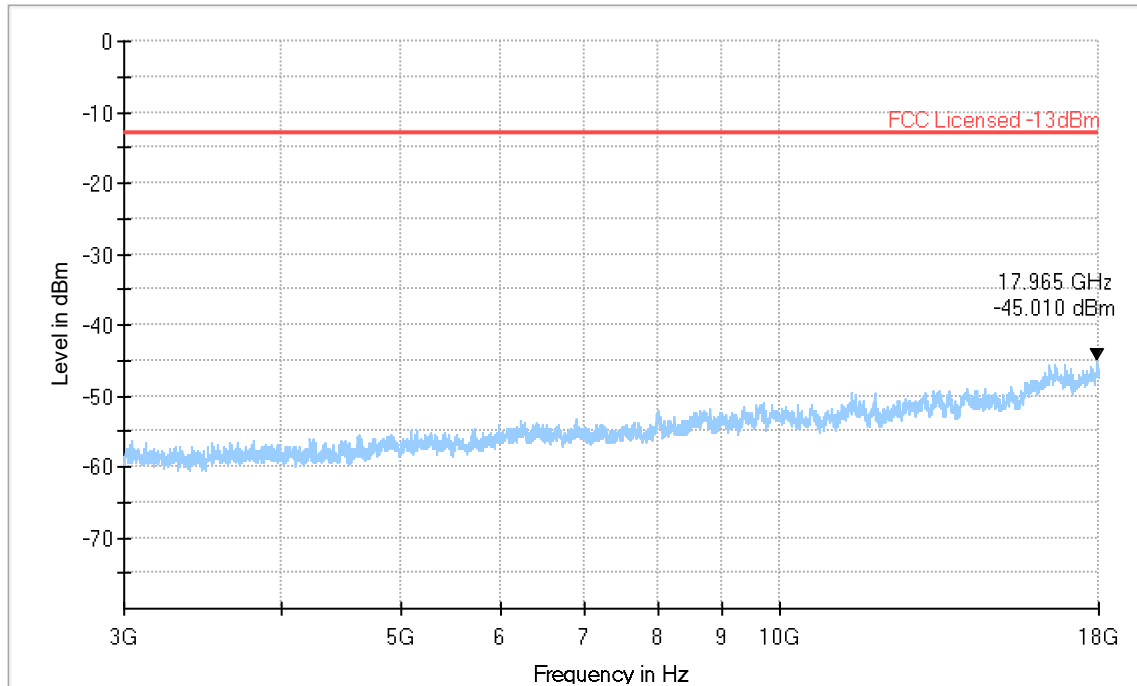
— RMS_MAXH
◆ Final_Result PK+ ◆ Final_Result RMS — FCC Licensed -13dBm

Plot # 15 Radiated Emissions: 3 GHz – 18 GHz

Channel: Mid

Final Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB)	Comment
---	---	---	---	---	---	---	---		---	---	

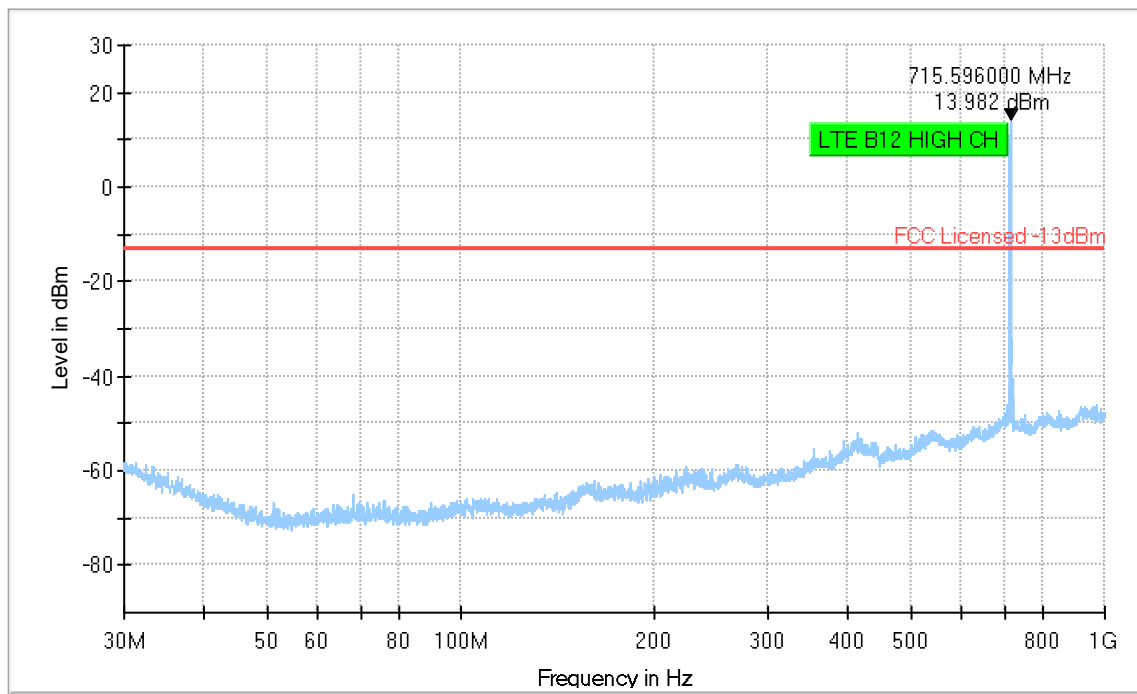


Plot # 16 Radiated Emissions: 30 MHz – 1GHz

Channel: High

Final Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB)	Comment
---	---	---	---	---	---	---	---	---	---	---	---



— RMS_MAXH
* Critical_Freqs PK+
◆ Final_Result RMS

— PK+_MAXH
— FCC Licensed -13dBm

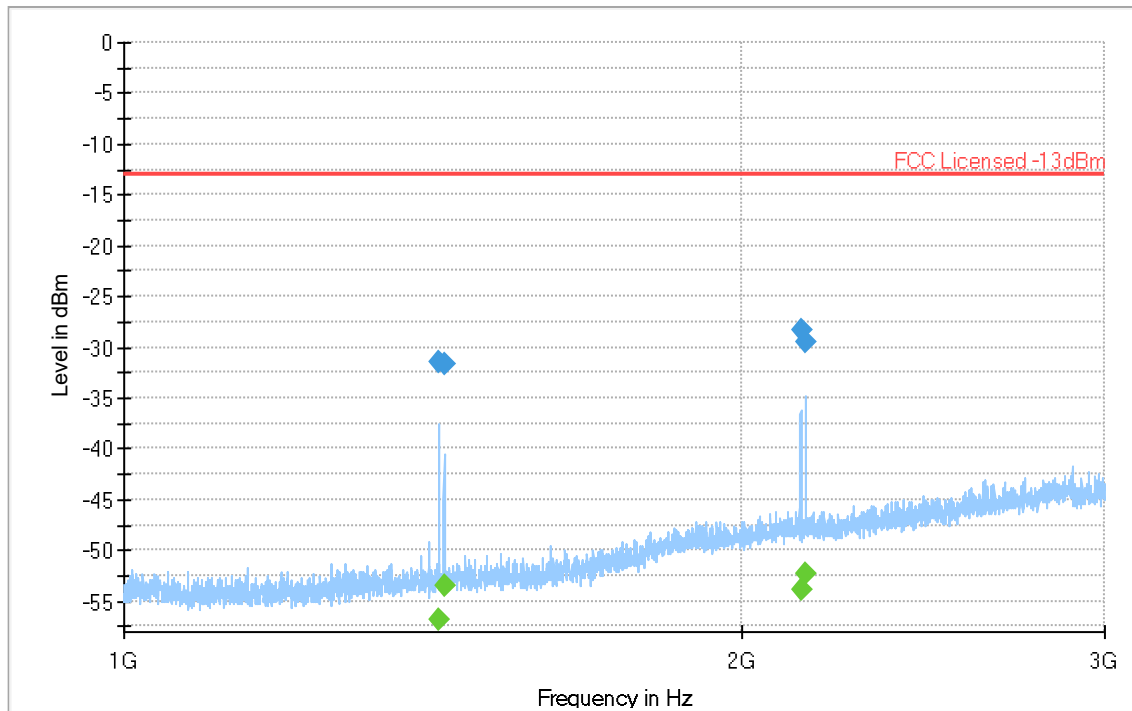
* Critical_Freqs RMS
◆ Final_Result PK+

Plot # 17 Radiated Emissions: 1 GHz - 3 GHz

Channel: High

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB)	Comment
1423.000	---	-56.82	---	---	500.0	1000.0	100.0	H	308.0	-66.1	
1423.000	-31.42	---	-13.00	18.42	500.0	1000.0	100.0	H	308.0	-66.1	
1431.250	---	-53.39	---	---	500.0	1000.0	223.0	V	287.0	-66.1	
1431.250	-31.75	---	-13.00	18.75	500.0	1000.0	223.0	V	287.0	-66.1	
2134.250	-28.31	---	-13.00	15.31	500.0	1000.0	190.0	H	57.0	-62.7	
2134.250	---	-53.93	---	---	500.0	1000.0	190.0	H	57.0	-62.7	
2147.000	-29.42	---	-13.00	16.42	500.0	1000.0	191.0	H	15.0	-62.8	
2147.000	---	-52.28	---	---	500.0	1000.0	191.0	H	15.0	-62.8	

RMS_MAXH
Final_Result PK+PK+_MAXH
Final_Result RMS

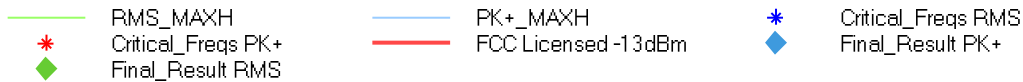
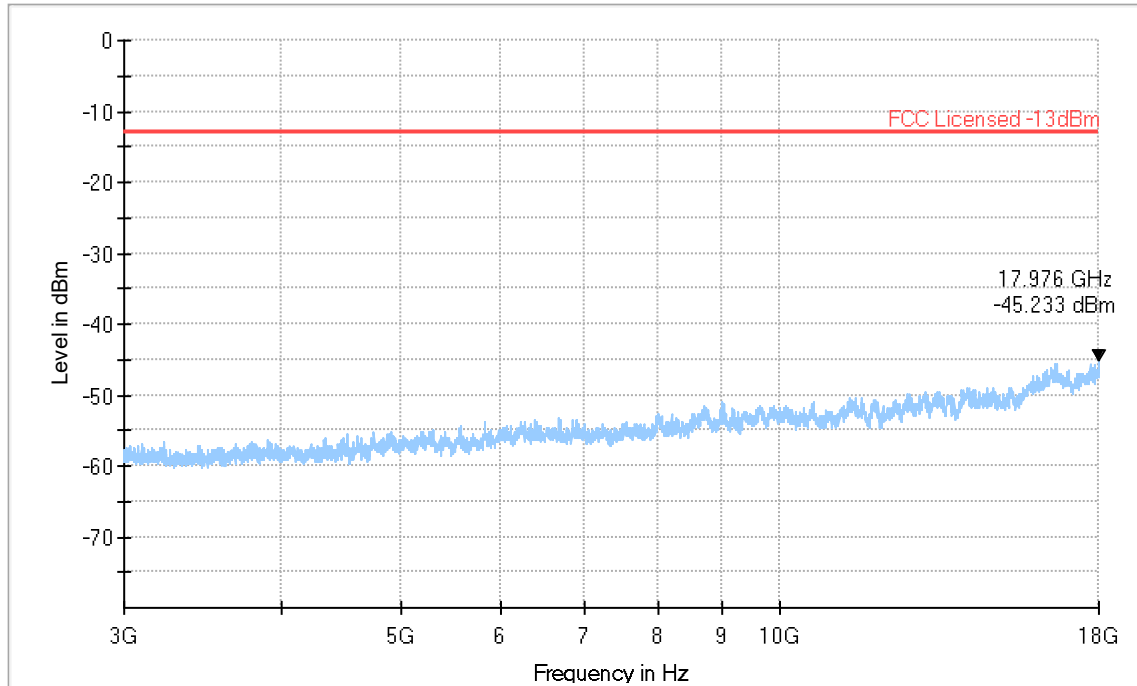
FCC Licensed -13dBm

Plot # 18 Radiated Emissions: 3 GHz – 18 GHz

Channel: High

Final Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB)	Comment
---	---	---	---	---	---	---	---		---	---	



8.2.7 Measurement plots:

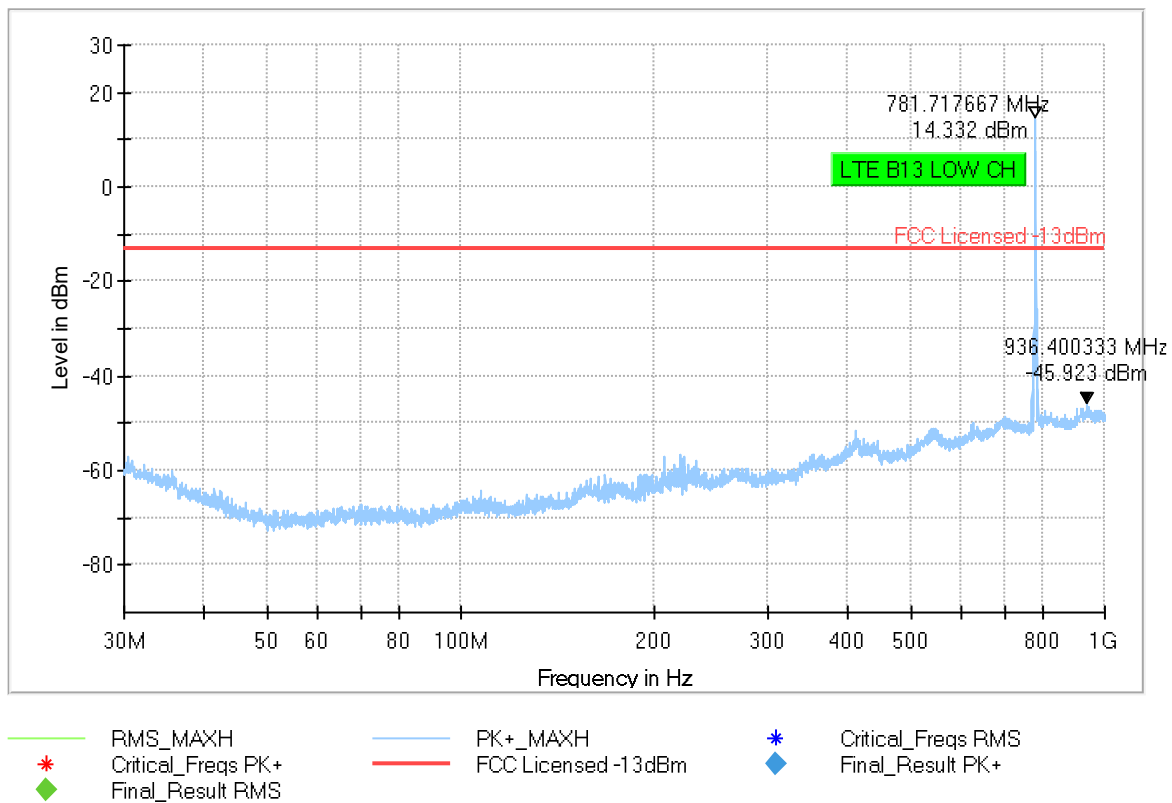
8.2.7.1 LTE Band 13

Plot # 19 Radiated Emissions: 30 MHz – 1GHz

Channel: Low

Final Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB)	Comment
---	---	---	---	---	---	---	---	---	---	---	---

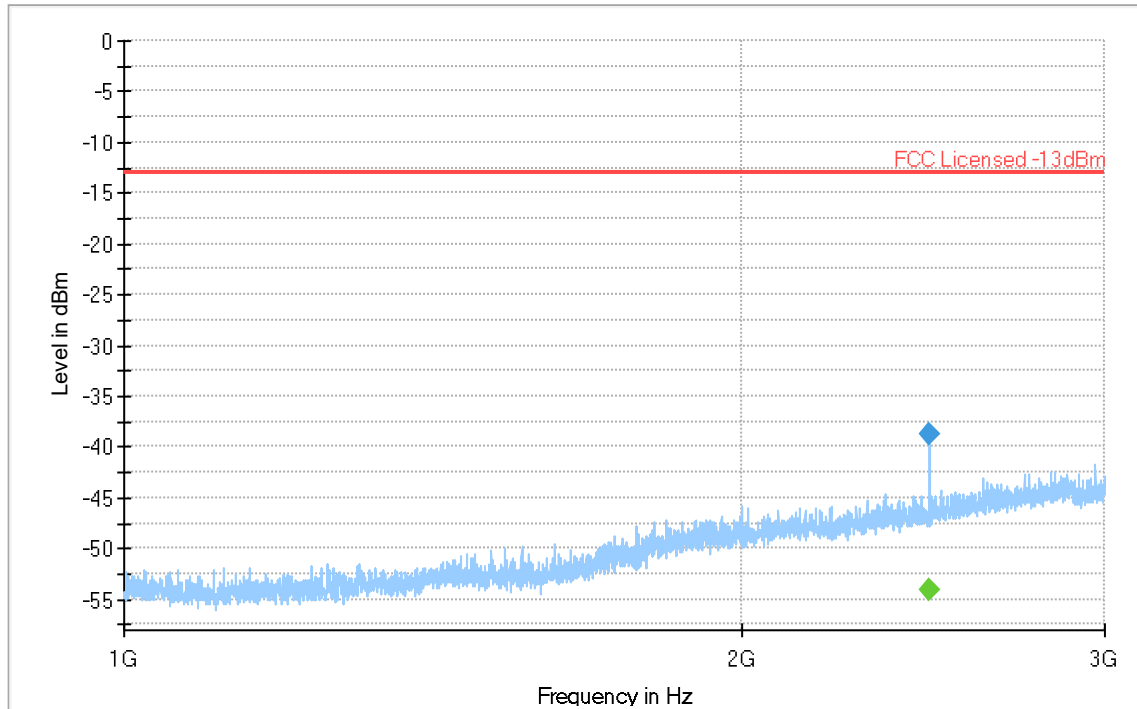


Plot # 20 Radiated Emissions: 1 GHz - 3 GHz

Channel: Low

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB)	Comment
2466.000	---	-53.99	---	---	500.0	1000.0	223.0	V	27.0	-61.8	
2466.000	-38.70	---	-13.00	25.70	500.0	1000.0	223.0	V	27.0	-61.8	

RMS_MAXH
Final_Result PK+PK+_MAXH
Final_Result RMS

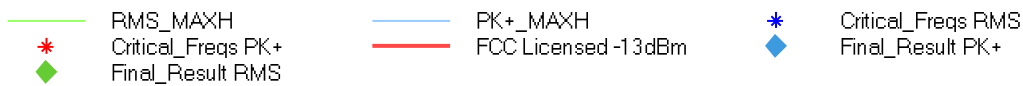
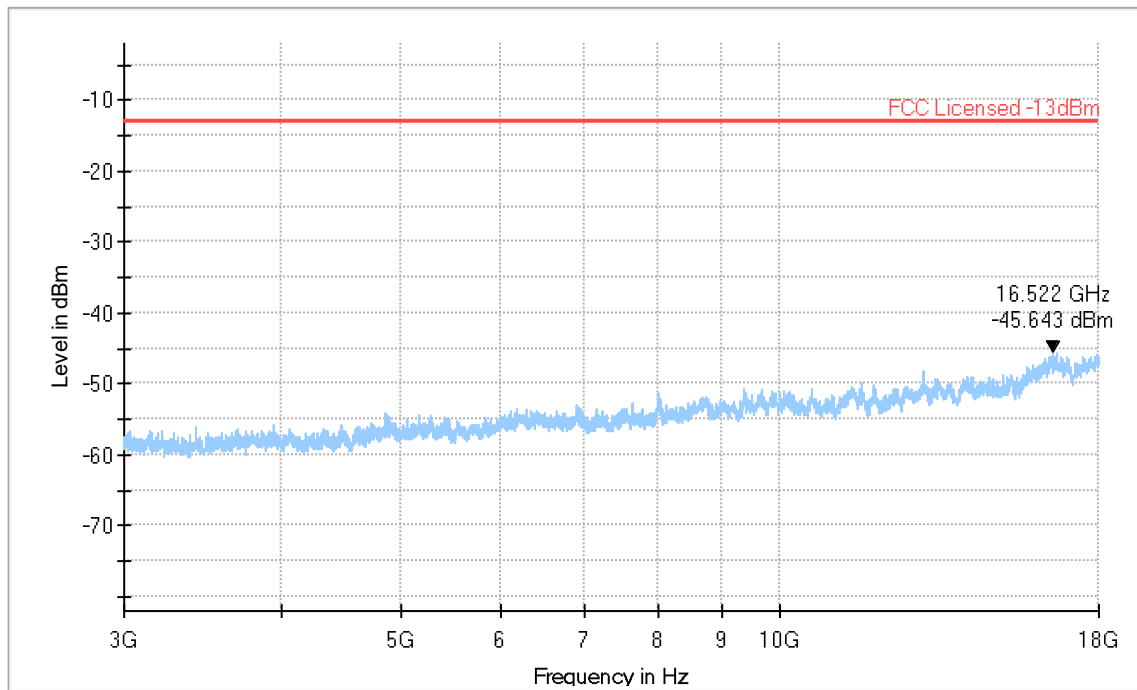
FCC Licensed -13dBm

Plot # 21 Radiated Emissions: 3 GHz – 18 GHz

Channel: Low

Final Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB)	Comment
---	---	---	---	---	---	---	---	---	---	---	---

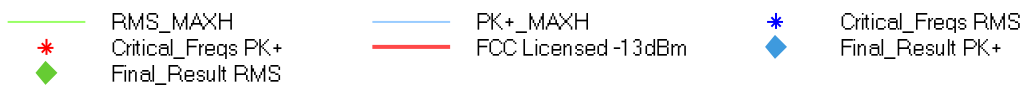
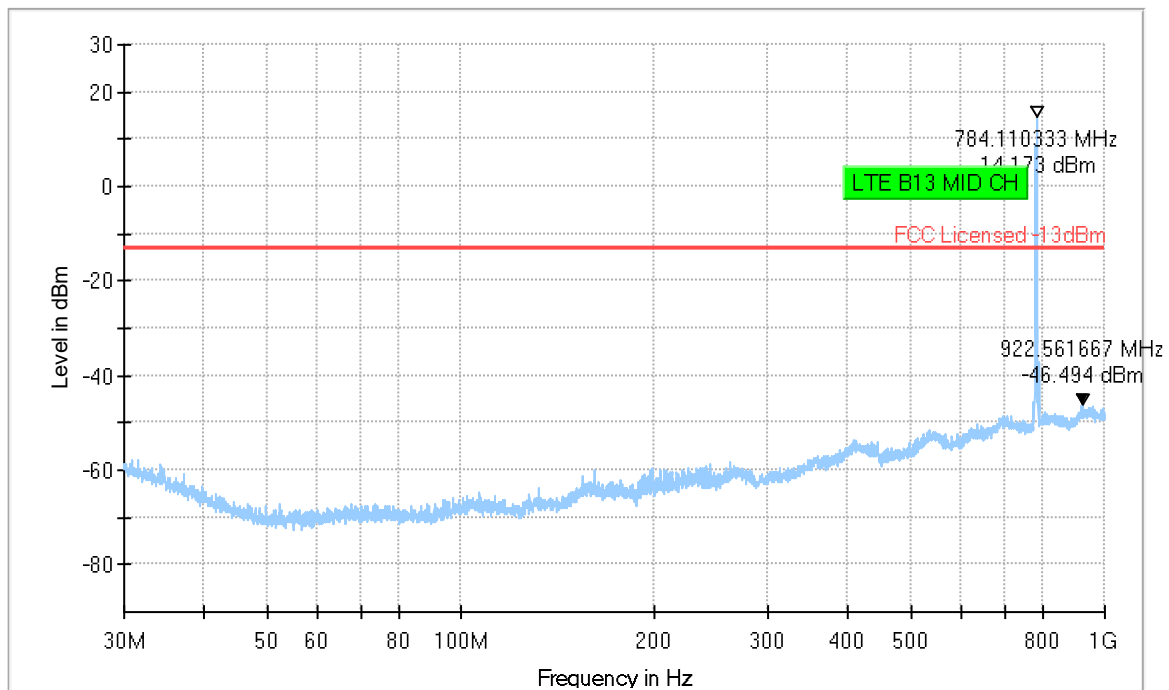


Plot # 22 Radiated Emissions: 30 MHz – 1GHz

Channel: Mid

Final Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (h)	Height	Pol	Azimuth	Corr. (dB)	Comment
---	---	---	---	---	---	---	---	---	---	---	---

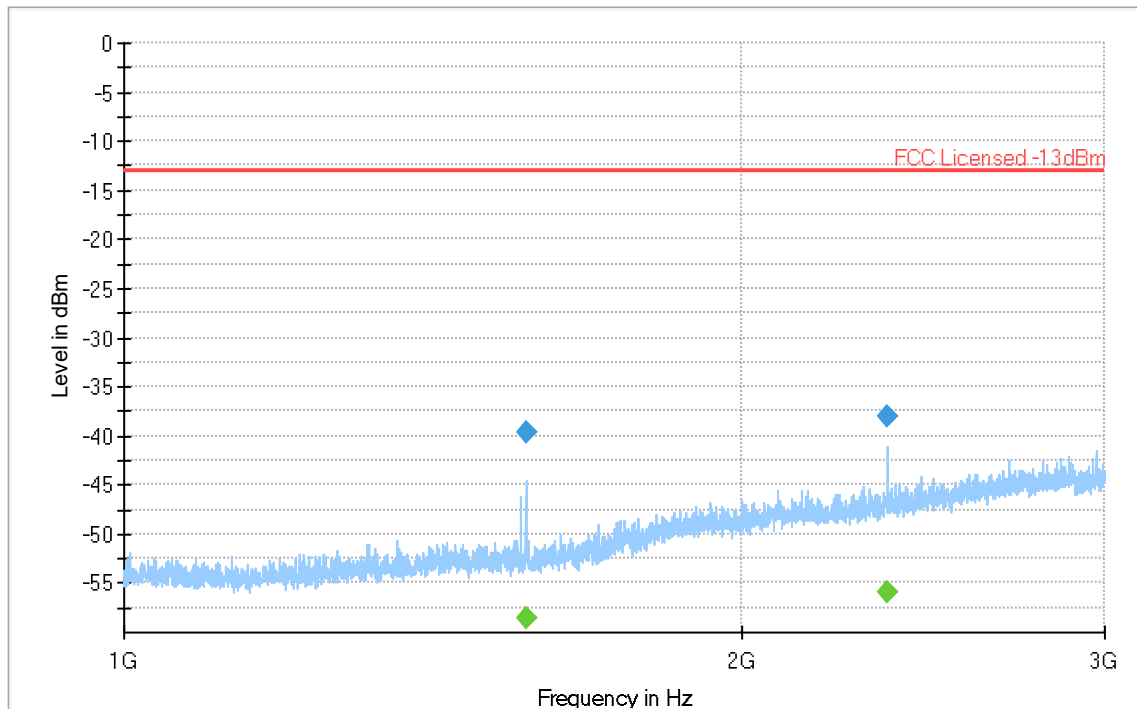


Plot # 23 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB)	Comment
1568.250	-39.68	---	-13.00	26.68	500.0	1000.0	263.0	H	36.0	-66.0	
1568.250	---	-58.55	---	---	500.0	1000.0	263.0	H	36.0	-66.0	
2352.500	-38.02	---	-13.00	25.02	500.0	1000.0	212.0	H	208.0	-62.1	
2352.500	---	-55.90	---	---	500.0	1000.0	212.0	H	208.0	-62.1	



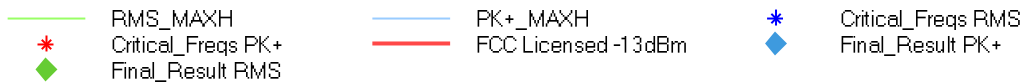
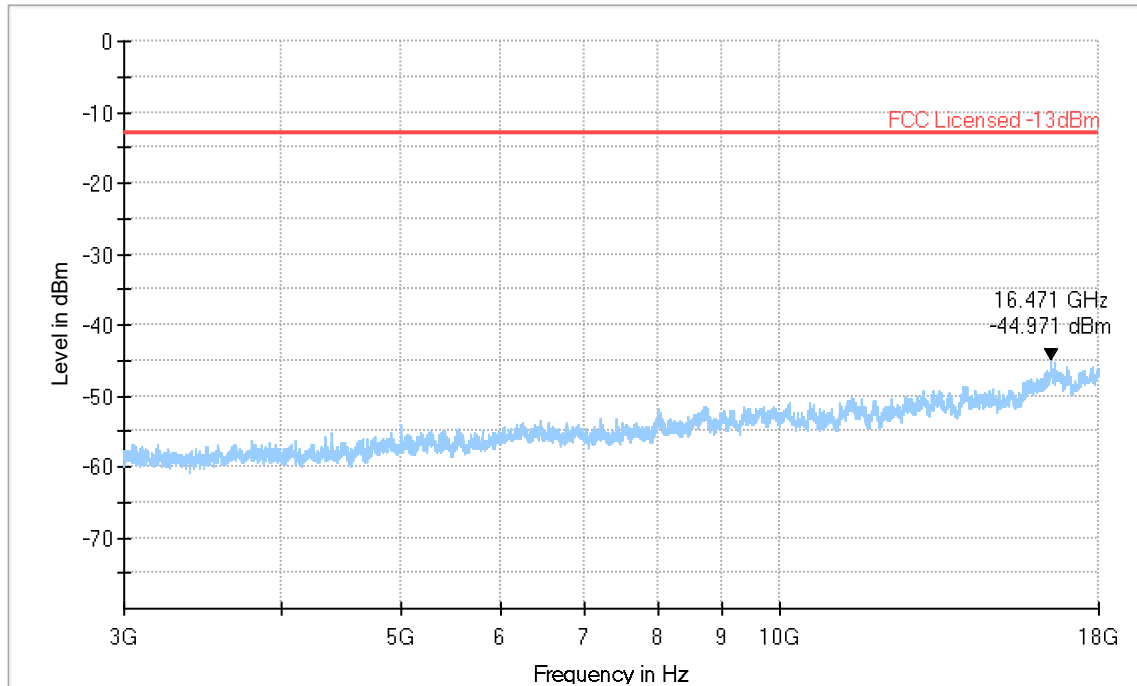
— RMS_MAXH
◆ Final_Result PK+ ◆ Final_Result RMS — FCC Licensed -13dBm

Plot # 24 Radiated Emissions: 3 GHz – 18 GHz

Channel: Mid

Final Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB)	Comment
---	---	---	---	---	---	---	---		---	---	

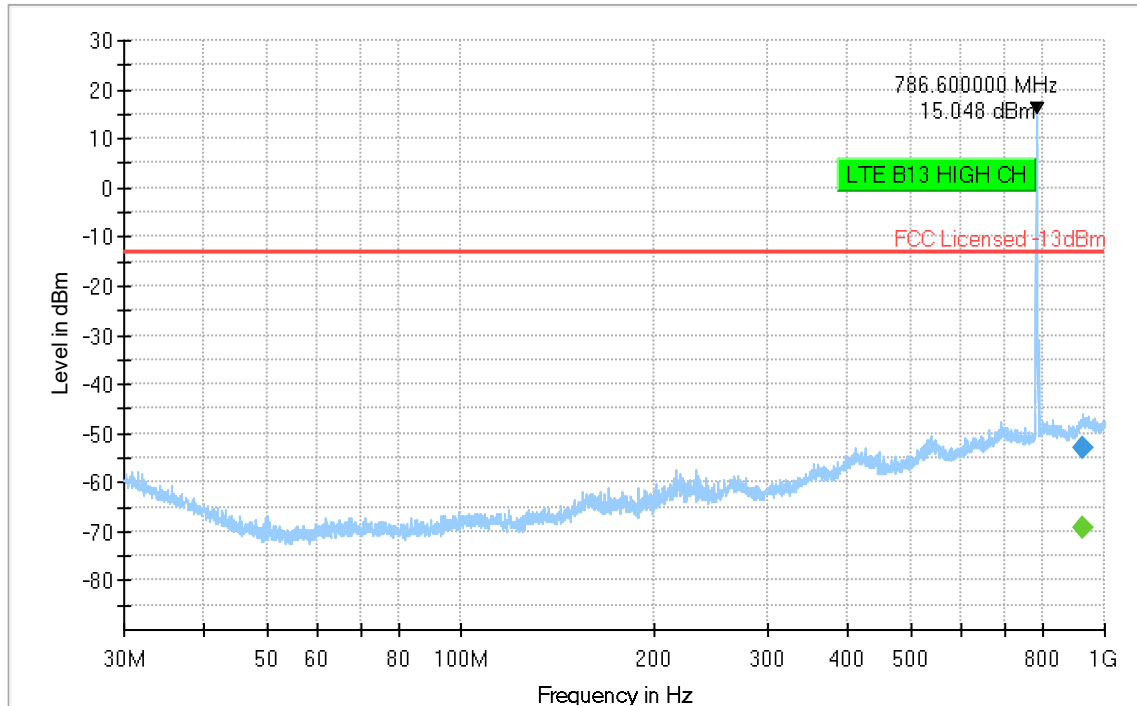


Plot # 25 Radiated Emissions: 30 MHz – 1GHz

Channel: High

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB)	Comment
924.372	---	-69.09	---	---	500.0	100.0	165.0	H	79.0	-63.5	
924.372	-52.91	---	-13.00	39.91	500.0	100.0	165.0	H	79.0	-63.5	

RMS_MAXH
Final_Result PK+PK+_MAXH
Final_Result RMS

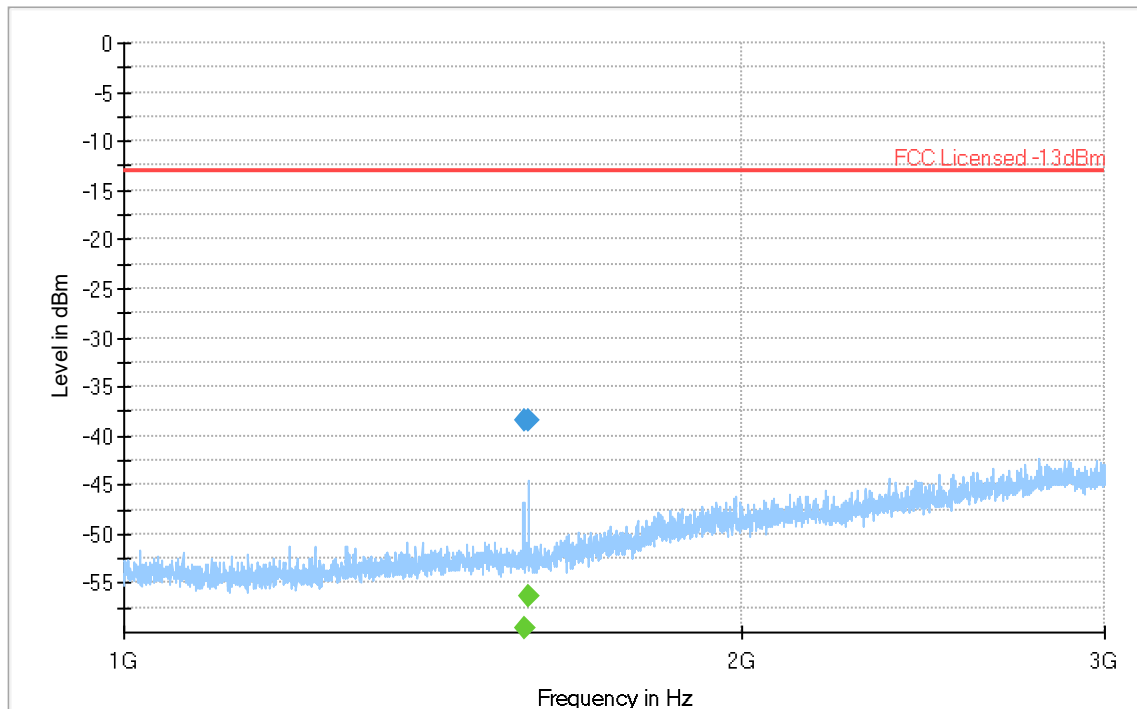
FCC Licensed -13dBm

Plot # 26 Radiated Emissions: 1 GHz - 3 GHz

Channel: High

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB)	Comment
1565.000	---	-59.58	---	---	500.0	1000.0	100.0	H	0.0	-65.9	
1565.000	-38.49	---	-13.00	25.49	500.0	1000.0	100.0	H	0.0	-65.9	
1573.250	---	-56.27	---	---	500.0	1000.0	169.0	H	271.0	-66.0	
1573.250	-38.43	---	-13.00	25.43	500.0	1000.0	169.0	H	271.0	-66.0	



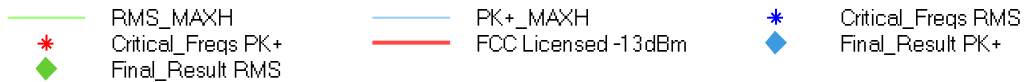
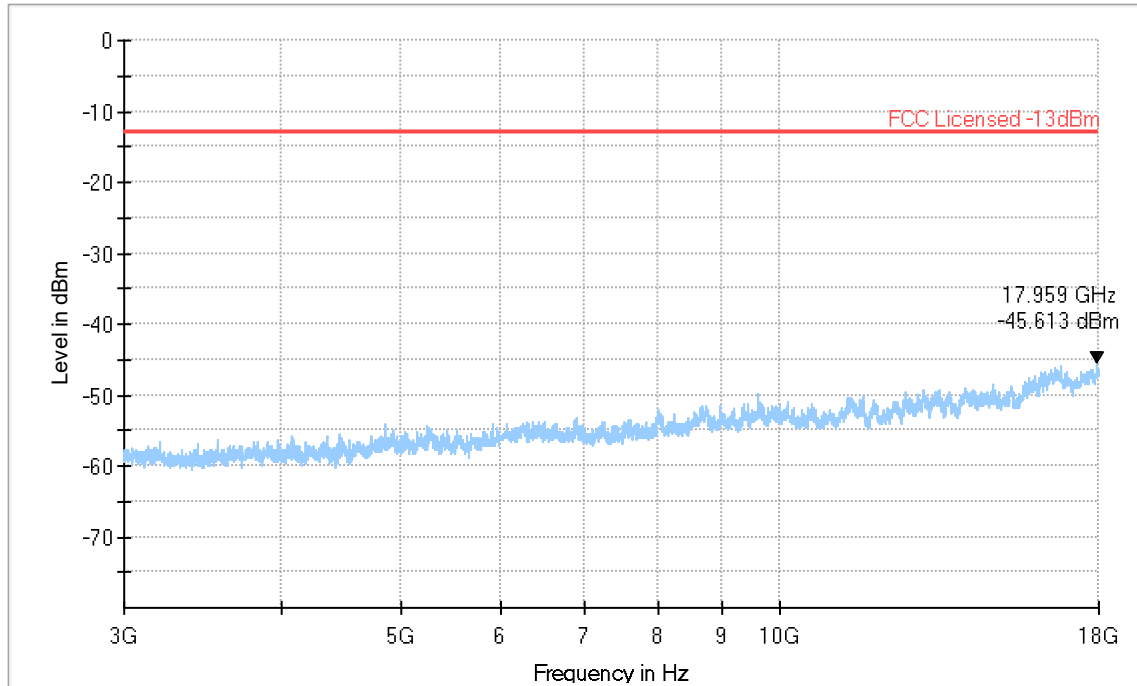
— RMS_MAXH
◆ Final_Result PK+ ◆ Final_Result RMS — FCC Licensed -13dBm

Plot # 27 Radiated Emissions: 3 GHz – 18 GHz

Channel: High

Final Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (h)	Height	Pol	Azimuth	Corr. (dB)	Comment
---	---	---	---	---	---	---	---		---	---	



8.2.8 Measurement plots:

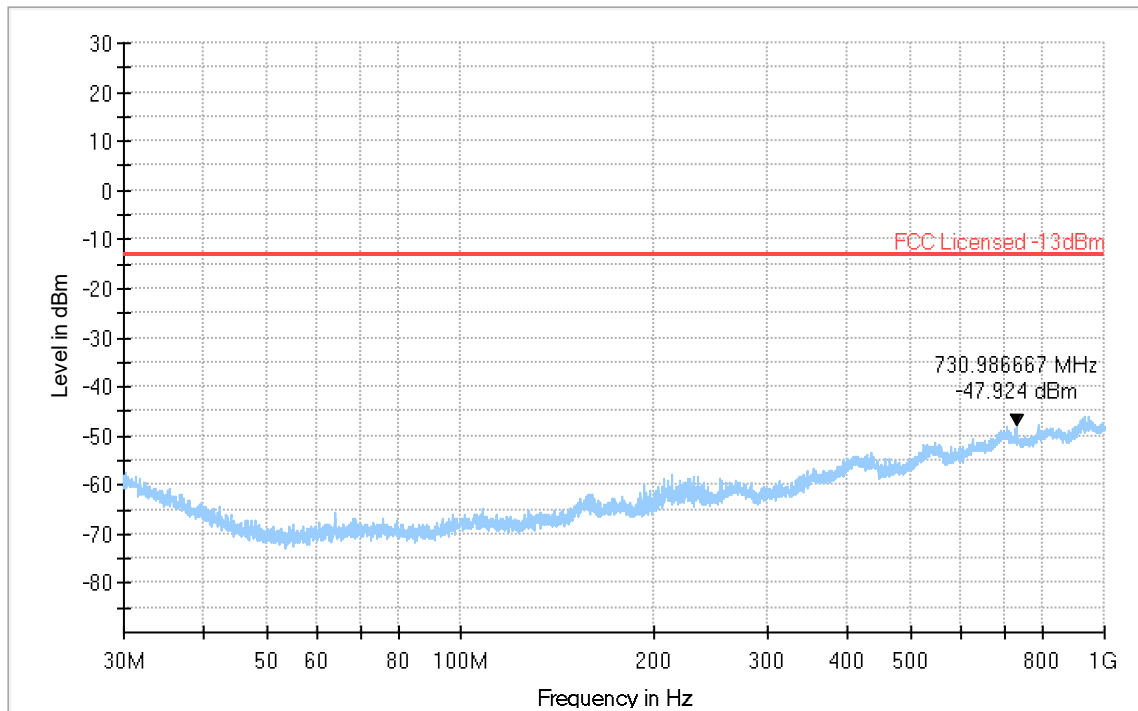
8.2.8.1 LTE Band 66

Plot # 28 Radiated Emissions: 30 MHz – 1GHz

Channel: Low

Final Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB)	Comment
---	---	---	---	---	---	---	---	---	---	---	---



— RMS_MAXH
◆ Final_Result PK+

— PK+_MAXH
◆ Final_Result RMS

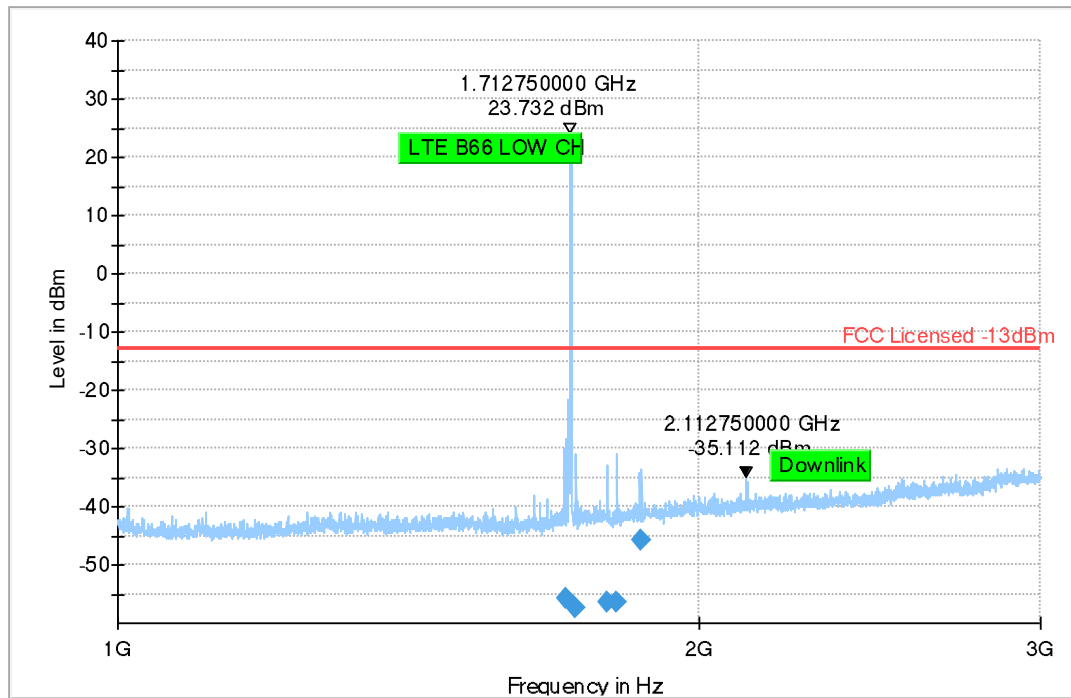
— FCC Licensed -13dBm

Plot # 29 Radiated Emissions: 1 GHz - 3 GHz

Channel: Low

Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1703.969	-55.925	-13.00	42.93	500.0	1000.0	270.0	H	291.0	-64.4	4.6	0.0	-69.1	8.5
1725.507	-57.316	-13.00	44.32	500.0	1000.0	198.0	H	-22.0	-64.3	4.6	0.0	-68.9	7.0
1791.750	-56.334	-13.00	43.33	500.0	1000.0	100.0	H	149.0	-64.1	4.6	0.0	-68.7	7.8
1812.412	-56.466	-13.00	43.47	500.0	1000.0	239.0	H	295.0	-64.0	4.6	0.0	-68.6	7.5
1866.500	-45.919	-13.00	32.92	500.0	1000.0	228.0	H	302.0	-63.5	4.8	0.0	-68.3	17.5



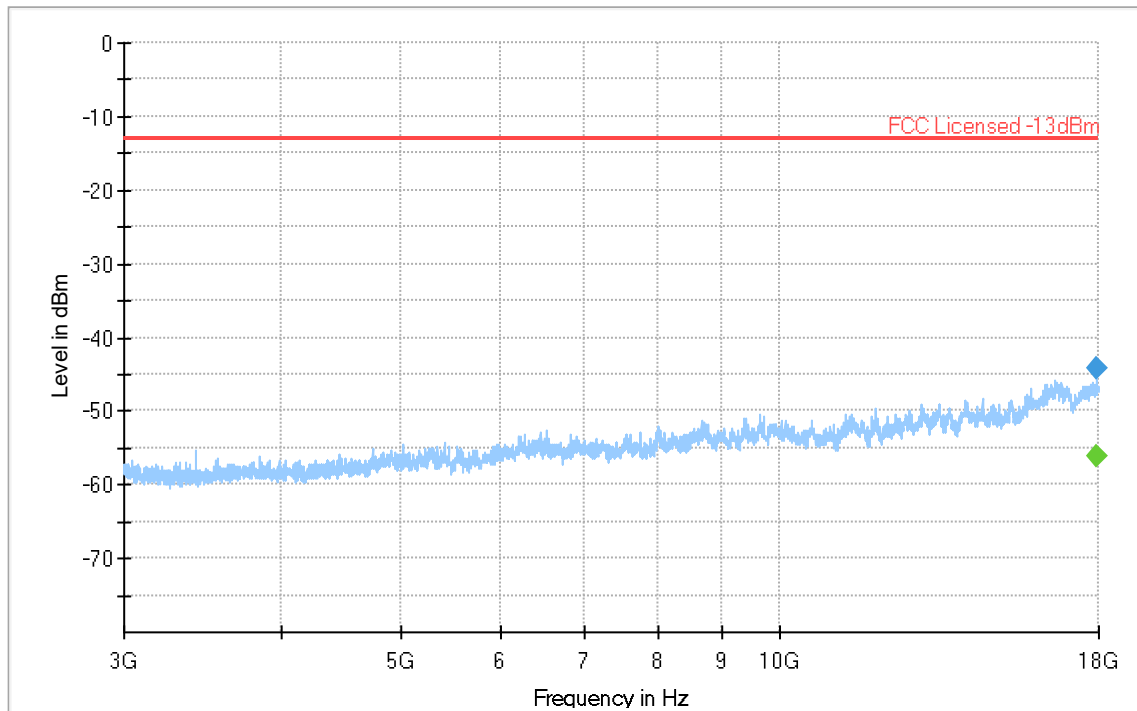
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS

Plot # 30 Radiated Emissions: 3 GHz – 18 GHz

Channel: Low

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB)	Comment
17912.00	---	56.07810744	--	--	500.0	1000.0	233.0	H	257.0	-77.7	
17912.00	44.32293471	---	-13.00	31.32	500.0	1000.0	233.0	H	257.0	-77.7	

◆ RMS_MAXH
Final_Result PK+◆ PK+_MAXH
Final_Result RMS

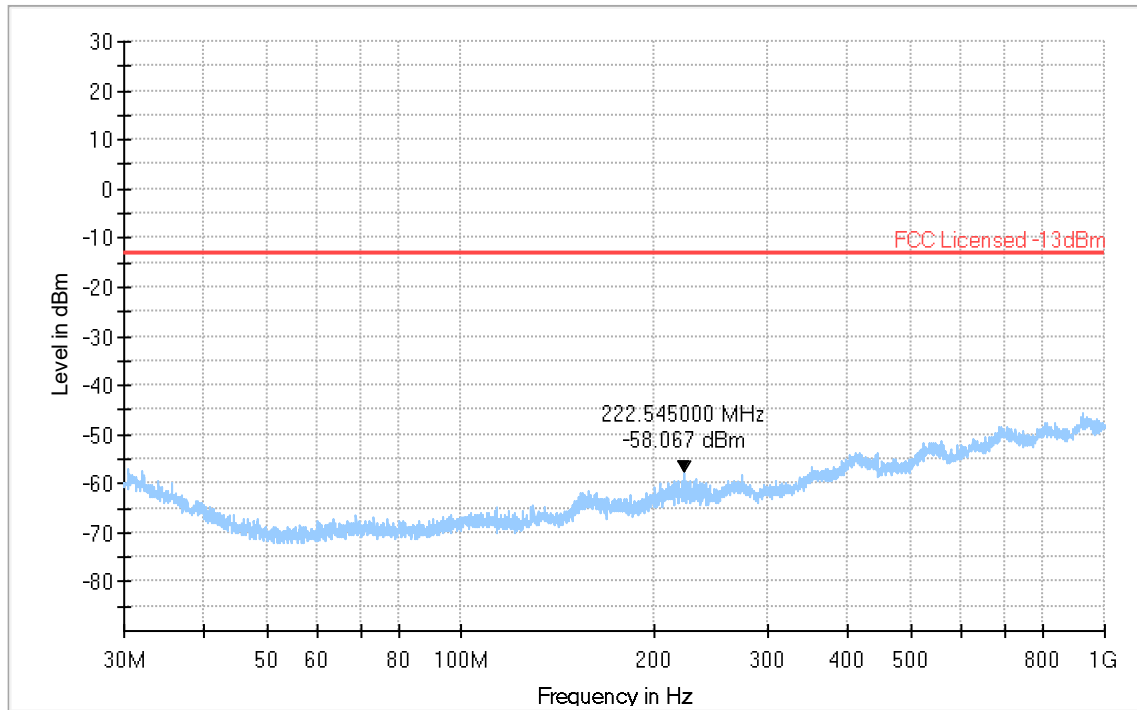
◆ FCC Licensed -13dBm

Plot # 31 Radiated Emissions: 30 MHz – 1GHz

Channel: Mid

Final Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB)	Comment
---	---	---	---	---	---	---	---	---	---	---	---



— RMS_MAXH
◆ Final_Result PK+

— PK+_MAXH
◆ Final_Result RMS

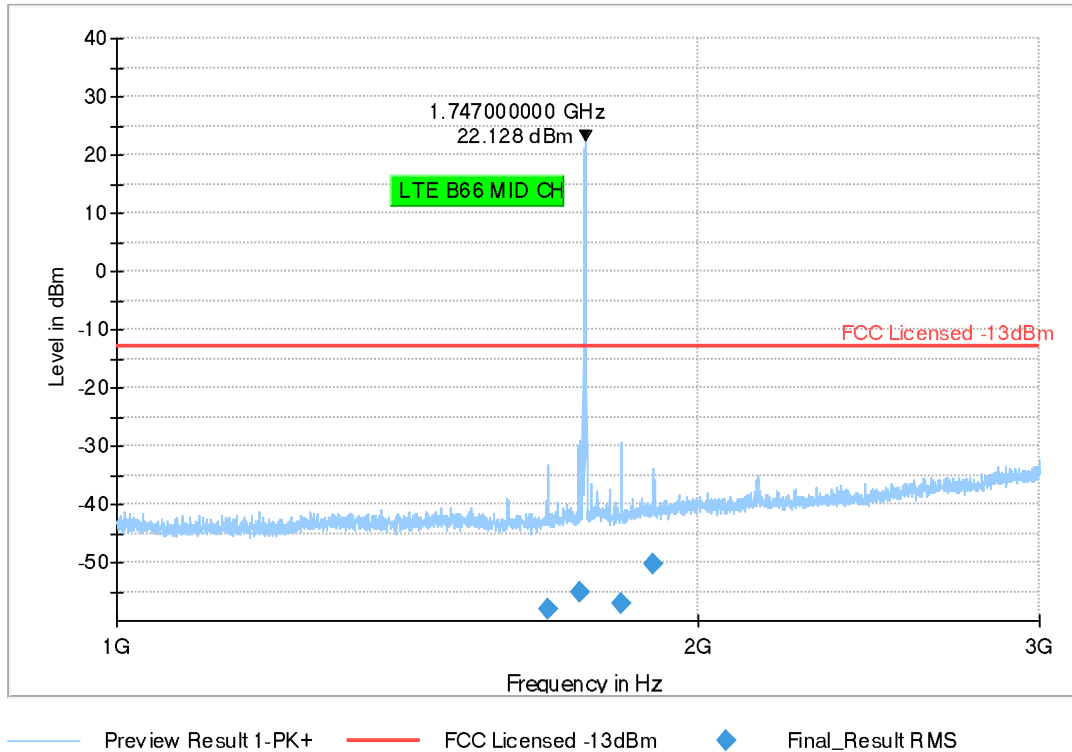
— FCC Licensed -13dBm

Plot # 32 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid

Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1670.905	-58.052	-13.00	45.05	500.0	1000.0	203.0	H	-17.0	-64.9	4.5	0.0	-69.4	6.9
1737.000	-55.149	-13.00	42.15	500.0	1000.0	235.0	H	-32.0	-64.2	4.6	0.0	-68.8	9.1
1822.785	-56.947	-13.00	43.95	500.0	1000.0	235.0	H	297.0	-63.9	4.7	0.0	-68.5	6.9
1894.250	-50.432	-13.00	37.43	500.0	1000.0	238.0	H	308.0	-63.2	4.9	0.0	-68.1	12.8

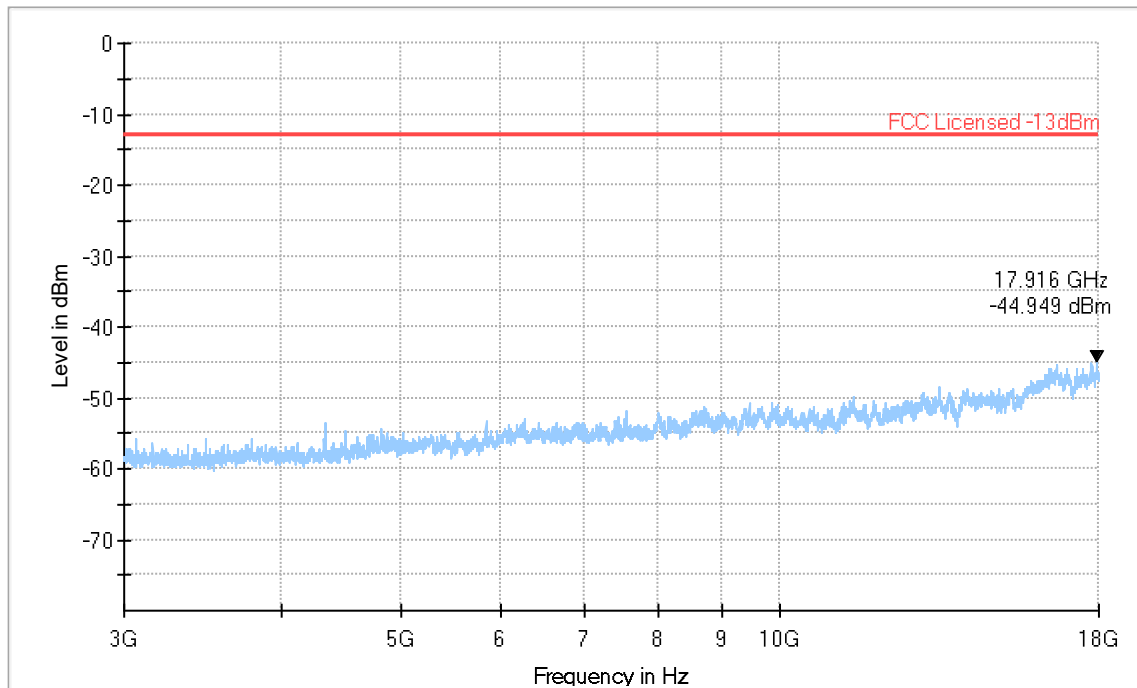


Plot # 33 Radiated Emissions: 3 GHz – 18 GHz

Channel: Mid

Final Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth	Height	Pol	Azimuth	Corr. (dB)	Comment
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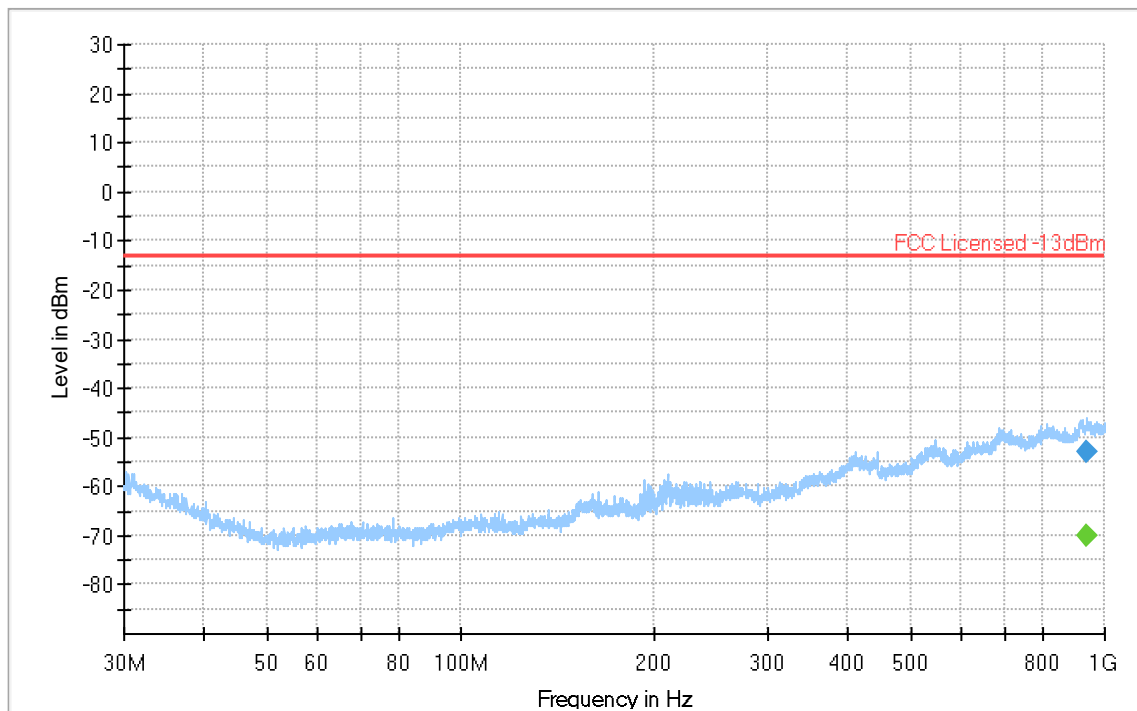
— RMS_MAXH — PK+_MAXH * Critical_Freqs RMS
* Critical_Freqs PK+ — FCC Licensed -13dBm ◆ Final_Result PK+
◆ Final_Result RMS

Plot # 34 Radiated Emissions: 30 MHz – 1GHz

Channel: High

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin	Meas. Time (ms)	Bandwidth (Hz)	Height	Pol	Azimuth	Corr. (dB)	Comment
937.920	---	-70.14	---	---	500.0	100.0	223.0	V	132.0	-63.1	
937.920	-53.06	---	-13.00	40.06	500.0	100.0	223.0	V	132.0	-63.1	



— RMS_MAXH
◆ Final_Result PK+

— PK+_MAXH
◆ Final_Result RMS

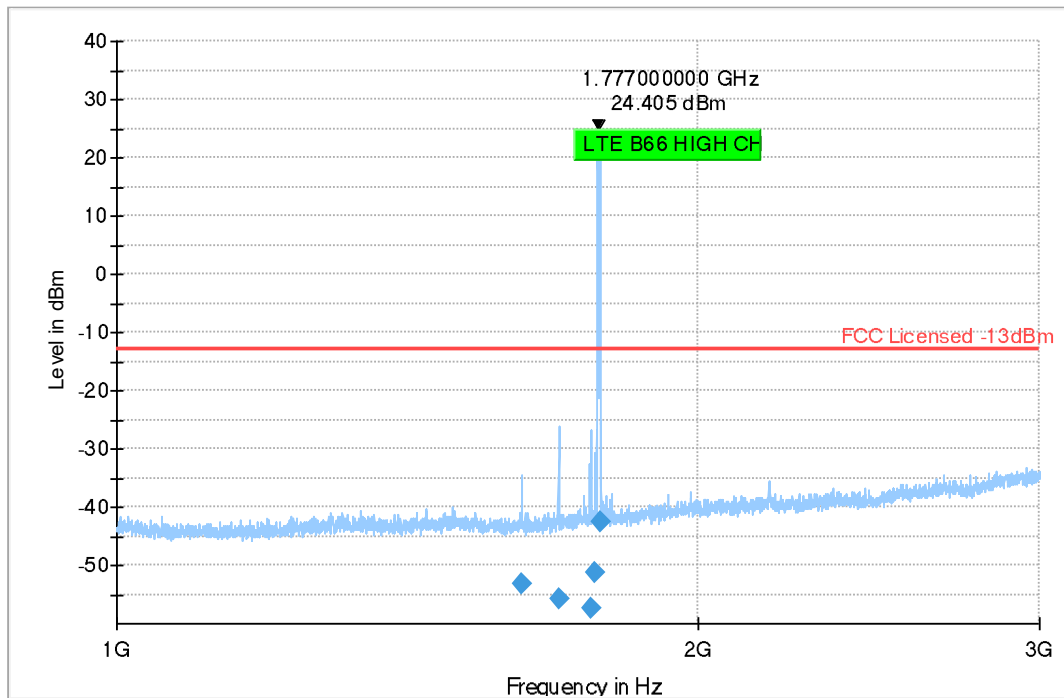
— FCC Licensed -13dBm

Plot # 35 Radiated Emissions: 1 GHz - 3 GHz

Channel: High

Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1618.500	-53.233	-13.00	40.23	500.0	1000.0	202.0	H	342.0	-65.3	4.5	0.0	-69.8	12.0
1692.250	-55.717	-13.00	42.72	500.0	1000.0	269.0	H	287.0	-64.6	4.6	0.0	-69.2	8.9
1760.750	-57.381	-13.00	44.38	500.0	1000.0	261.0	H	311.0	-64.1	4.6	0.0	-68.7	6.7
1769.000	-51.442	-13.00	38.44	500.0	1000.0	125.0	H	173.0	-64.1	4.6	0.0	-68.7	12.6
1780.111	-42.718	-13.00	29.72	500.0	1000.0	125.0	H	-8.0	-64.2	4.5	0.0	-68.7	21.5



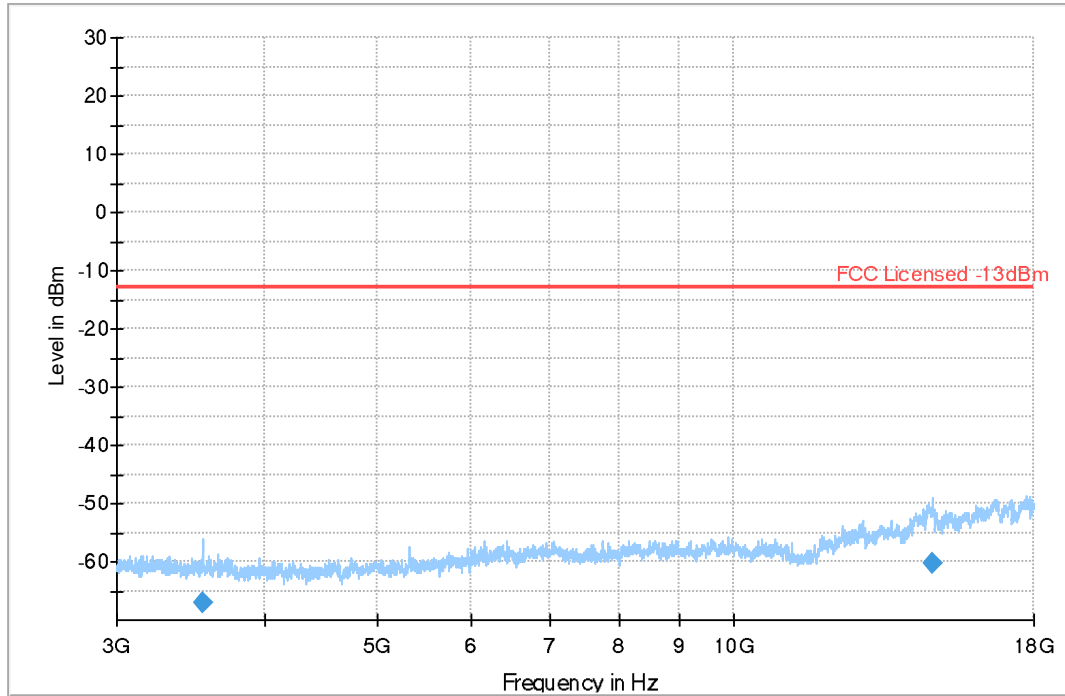
— Preview Result 1-PK+ — FCC Licensed -13dBm ◆ Final_Result RMS

Plot # 36 Radiated Emissions: 3 GHz – 18 GHz

Channel: High

Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3545.814	-67.090	-13.00	54.09	500.0	1000.0	254.0	H	300.0	-	5.9	-45.9	-62.2	35.2
14769.421	-60.279	-13.00	47.28	500.0	1000.0	116.0	H	8.0	-86.1	13.4	-45.7	-53.9	25.9



— Preview Result 1-PK+ — FCC Licensed -13dBm ◆ Final_Result RMS

9 Test setup photos

Setup photos are included in supporting file name: "EMC_TELUL_232_25001_FCC_27_Setup_photos.pdf"

10 Test Equipment And Ancillaries Used For Testin

EMC Lab 2

Equipment Type	Manufacturer	Model	Serial #	Calibration Cycle	Last Calibration Date
BILOG ANTENNA	A.H. SYSTEMS	BiLA2G	569	3 Years	09/08/2025
HORN ANTENNA	EMCO	3115	00035111	3 Years	09/04/2025
HORN ANTENNA	ETS LINDGREN	3117-PA	00167061	3 Years	09/04/2025
ESW.EMI TEST RECEIVER	ROHDE & SCHWARZ	ESW44	101715	3 Years	04/17/2024
DIGITAL THERMOMETER	Control Company	4410,90080-03	230712972	3 Years	10/18/2023
Multimeter	Fluke	115	56090717MV	3 Years	09/25/2025
Software	EMC32	Version 10.50.40	-	-	-
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	1201.002K50-127068-mX	3 Years	10/02/2024

Note: Equipment used meets the measurement uncertainty requirements as required per applicable standards for 95% confidence levels. Calibration due dates, unless defined specifically, falls on the last day of the month. Items indicated "N/A" for cal status either do not specifically require calibration or is internally characterized before use.

11 Revision History

Date	Report Name	Changes to report	Prepared by
2025-10-30	EMC_TELUL_232_25001_FCC_27	Initial Version	Art Thammanavarat

<<< The End >>>
