



FCC / ISED & Test Report

For:
Garmin International, Inc.

Model Name:
GMN-02245

Product Description:
LTE/Wi-Fi Datalink and Data Storage System

FCC ID: IPH-03788
IC ID: 1792A-03788

Applied Rules and Standards:
47 CFR Parts 22, 24, 27 and 90
RSS: 130 Issue 2, 132 Issue 3, 133 Issue 6, 139 Issue 3, 199 Issue 3

REPORT #: EMC_GARMI-086-20001_FCC_22_24_27_90_R1

DATE: 2021-11-22



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IC recognized #
3462B-1

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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 22, 24, 27, 90, and Industry Canada Standards RSS-GEN issue 3, RSS-130 Issue 2, RSS-132 issue 3, RSS-133 issue 6, RSS-139 issue 3 and RSS-199 Issue 3.

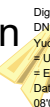
No deficiencies were ascertained.

Company Name	Product Description	Model #
Garmin International, Inc	LTE/Wi-Fi Datalink and Data Storage System	GMN-02245

Responsible for Testing Laboratory:

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Date	Section	Name	Signature	

Responsible for the Report:

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Date	Section	Name	Signature	

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

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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
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EMC Lab Manager:	Yuchan Lu
Responsible Project Leader:	Sangeetha Sivaraman

2.2 Identification of the Client

Client's Name:	Garmin International, Inc.
Street Address:	1200 East 151st Street
City/Zip Code	Olathe, KS / 66062
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 Name:	GMN-02245
Marketing Name:	GDL 60
HW Version :	Ver 6
SW Version :	1.32-004
FCC-ID :	IPH-03788
IC-ID:	1792A-03788
FWIN:	1.32-004
HVIN:	GMN-02245
PMN:	GDL 60
Product Description:	LTE/Wi-Fi Datalink and Data Storage System
Transceiver Technology / Type(s) of Modulation	Module: Quectel EG25-G FCC ID: XMR201903EG25G; IC ID: 10224A-201903EG25G; 4G: FDD LTE Bands 2, 4, 5, 7, 12, 38, 41 3G: UMTS FDD Bands II, IV, V
Frequency Range	LTE Band 2: 1850 – 1910 MHz LTE Band 4: 1710 – 1755 MHz LTE Band 5: 824 – 849 MHz LTE Band 7: 2500 – 2570 MHz LTE Band 12: 699 – 716 MHz LTE Band 25: 1850 – 1915 MHz LTE Band 26: 814 – 849 MHz LTE Band 38: 2570 – 2620 MHz LTE Band 41: 2496 – 2690 MHz UMTS Band II: 1852.4 – 1907.6 MHz UMTS Band IV: 1712.4 – 1752.6 MHz UMTS Band V: 826.4 – 846.6 MHz
Max. declared antenna gain	See below table
Other Radios included in the device:	WiFi
Power Supply/ Rated Operating Voltage Range	Vmin: 9 VDC/ Vnom: 24 VDC / Vmax: 32 VDC
Operating Temperature Range	-40°C to 70 °C
Sample Revision	☐ Prototype Unit; ☐ Production Unit; ☒ Pre-Production

LTE Band	Frequency Range (MHz)	GA 60 Peak Gain	GA 61 Peak Gain
1	1920-1980	2.1	3.4
2	1850-1910	1.7	2.4
3	1710-1785	1.6	0.6
4	1710-1755	1.6	0.6
5	824-849	0.4	0.2
7	2500-2570	5.4	4.5
8	880-915	0.8	0.3
12	699-715	0.3	0.5
13 (Disabled)	777-787	0.9	0.9
18	815-830	0.1	0.2
19	830-845	0.4	0.2
20	832-862	0.4	0.8
25	1850-1915	1.7	2.4
26	814-849	0.4	0.2
28	703-748	0.3	0.9
38	2570-2620	5.4	4.5
39	1880-1920	1.3	2.4
40	2300-2400	3.4	4.7
41	2496-2690	5.4	4.5
UMTS Band	Frequency Range (MHz)	GA 60 Peak Gain	GA 61 Peak Gain
1	1920-1980	2.1	3.4
2	1850-1910	1.7	2.4
4	1710-1755	1.6	0.6
5	824-849	0.4	0.2
8	880-915	0.8	0.3

3.2 EUT Sample details

EUT #	Serial Number	HW Version	SW Version	Comments
1	67H00230	Ver 6	1.32-004	Radiated
2	67H000367	Ver 11	1.40	LTE Band 38 with GA60 and LTE Band 2, Band 25 and UMTS Band 2 with GA 61 radiated results.

3.3 Accessory Equipment (AE) details

N/A

3.4 Test Sample Configuration

Set-up #	EUT / AE used for set-up	Comments
1	EUT#1	Radiated RF measurements were performed with EUT configured via customer provided GUE and instructions.
2	EUT#2	Radiated RF measurements were performed with EUT configured via customer provided GUE and instructions.

3.5 Mode of Operation details

Mode of Operation	Description of Operating modes	Additional Information
Op. 1	Cellular and WiFi 802.11g Co-Transmission	Cellular was tested on Low, Mid, High Channels at maximum power in a co-transmission mode WiFi radio was configured to 802.11g Mid channel using special commands through command window provided by the client that will not be available to the end user

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 with WiFi Module #1 and WiFi Module #2 radio 802.11g, 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 22, 24, 27, 90 and ISSED Standards RSS-GEN issue 3, RSS-130 Issue 2, RSS-132 issue 3, RSS-133 issue 6, RSS-139 issue 3 and RSS-199 Issue 3.

4.1 Dates of Testing:

12/22/2020 - 11/10/2021

4.2 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 $k=1$.

Radiated measurement

9 kHz to 30MHz	± 2.5 dB (Magnetic Loop Antenna)
30 MHz to 1000 MHz	± 2.0 dB (Biconilog Antenna)
1 GHz to 40 GHz	± 2.3 dB (Horn Antenna)

Conducted measurement

150 kHz to 30 MHz	± 0.7 dB (LISN)
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RF conducted measurement	± 0.5 dB
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4.3 Environmental Conditions during Testing:

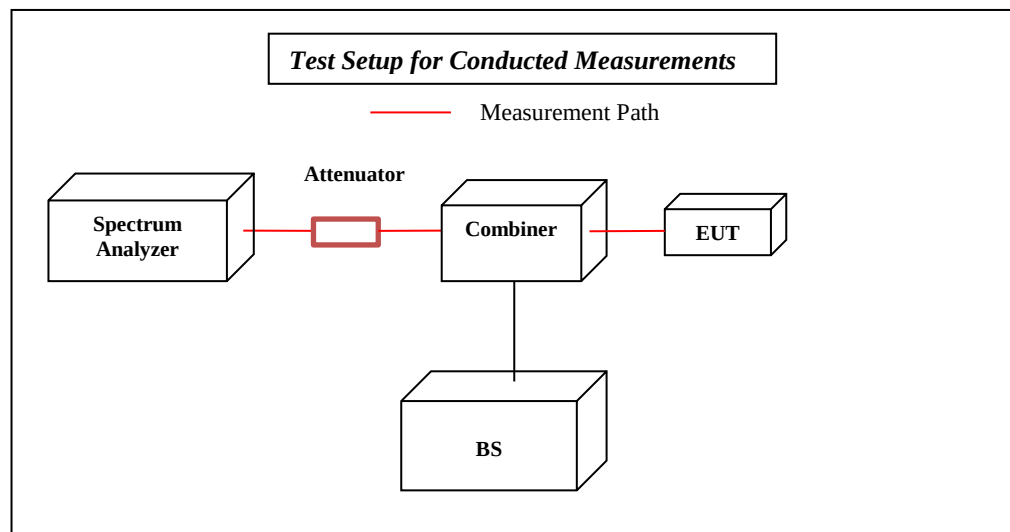
The following environmental conditions were maintained during the course of testing:

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

Deviating test conditions are indicated at individual test description where applicable.

5 Measurement Procedures

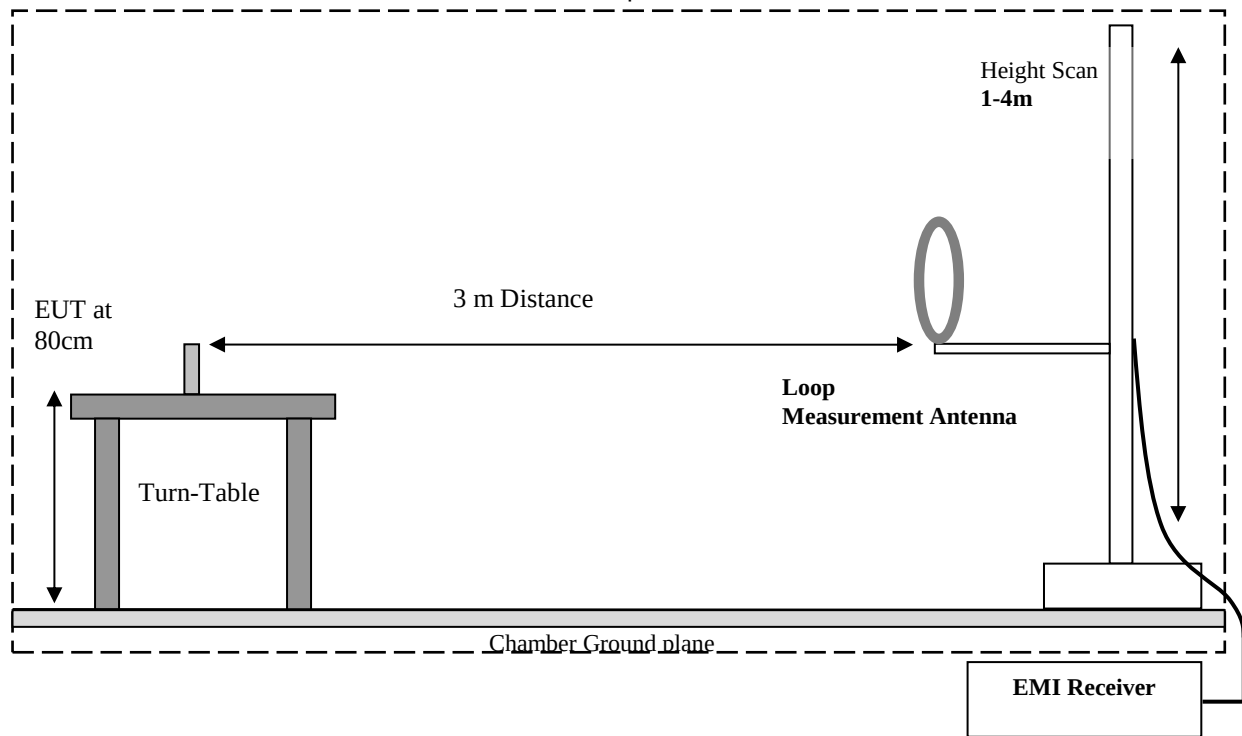
Testing is performed according to the guidelines provided in FCC publication (KDB) 971168 D01 v03r01 – “Measurement Guidance for Certification of Licensed Digital Transmitters” and according to relevant parts of ANSI/TIA-603-E (2016) as detailed below.



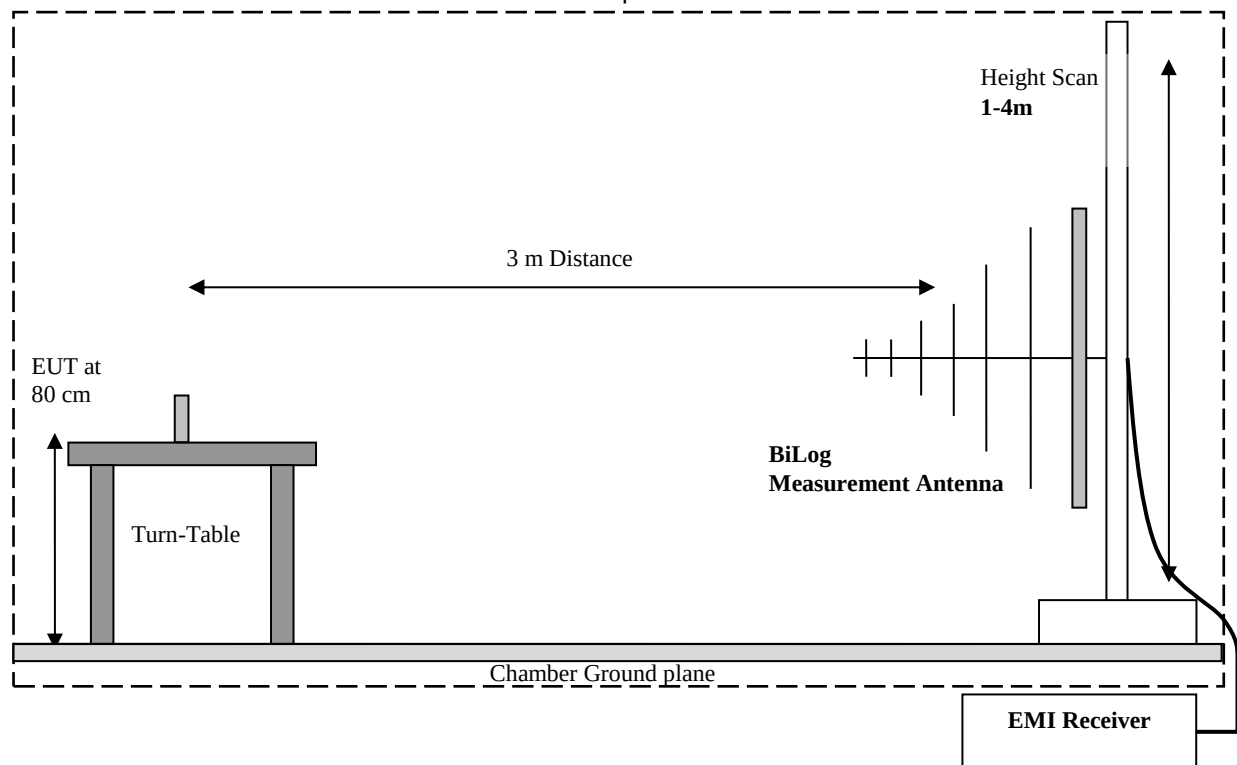
5.1 Radiated Measurement

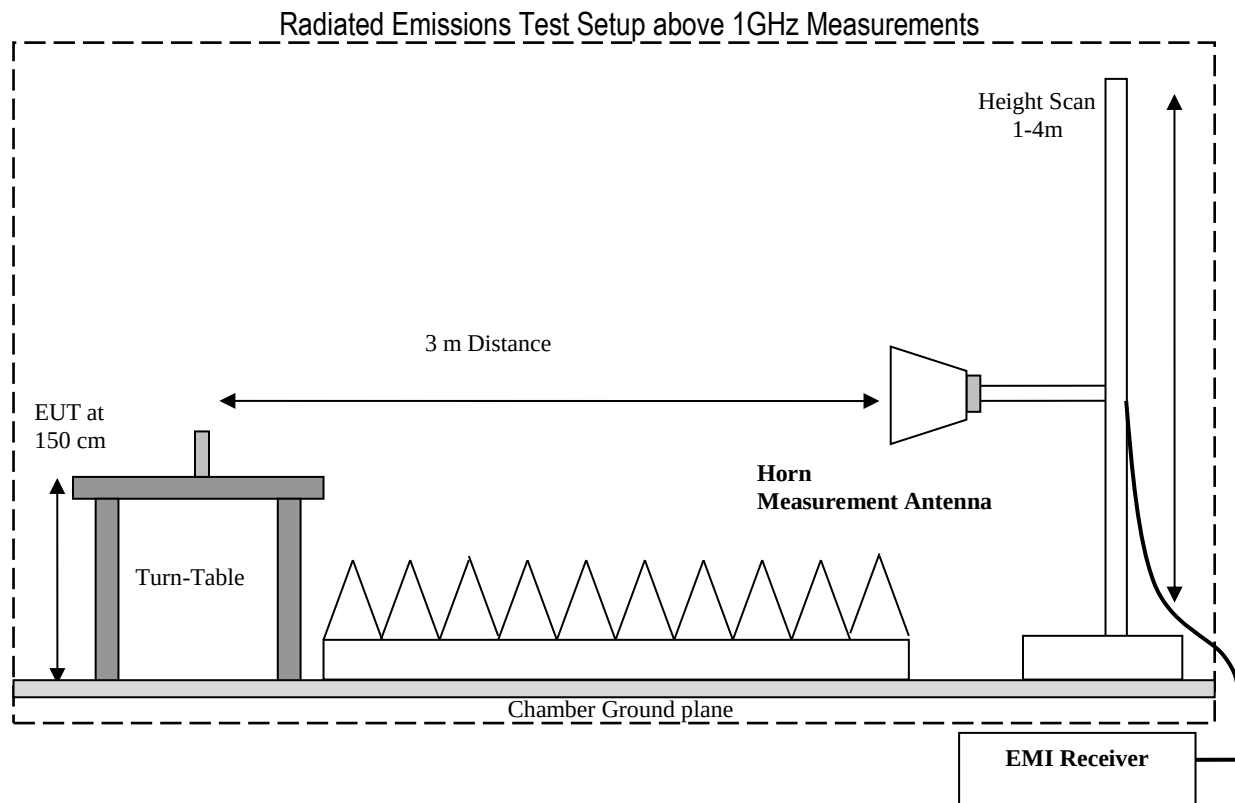
- The exploratory measurement is accomplished by running a matrix of 16 sweeps over the required frequency range with R&S Test-SW EMC32 for 4 positions of the turntable, two orthogonal positions of the EUT and both antenna polarizations. This procedure exceeds the requirement of the above standards to 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





5.2 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

6 Measurement Results Summary

6.1 Part 22 / RSS-132

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§2.1046; §22.913 (a)	RF Output Power	Nominal	-	☐	☐	☐	☒	Complies Note 1 Note 2
§2.1055; §22.355	Frequency Tolerance	Extreme Temperature and Voltage	-	☐	☐	☐	☒	Complies Note 1 Note 2
§2.1049; §22.917	Occupied Bandwidth	Nominal	-	☐	☐	☐	☒	Complies Note 1 Note 2
§2.1051; §22.917	Band Edge Compliance	Nominal	-	☐	☐	☐	☒	Complies Note 1 Note 2
§2.1051; §22.917	Conducted Spurious Emissions	Nominal	-	☐	☐	☐	☒	Complies Note 1 Note 2
§2.1053; §22.917	Radiated Spurious Emissions	Nominal	Op. 1	☒	☐	☐	☐	Complies

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

Note 2: Leveraged from module certification Quectel EG25-G (FCC ID: XMR201903EG25G, IC ID: 10224A-201903EG25G)

6.2 Part 24 / RSS-133

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§2.1046; §24.232 (a)	RF Output Power	Nominal	-	☐	☐	☐	☒	Complies Note 1 Note 2
§2.1055; §24.235	Frequency Stability	Extreme Temperature and Voltage	-	☐	☐	☐	☒	Complies Note 1 Note 2
§2.1049; §24.238	Occupied Bandwidth	Nominal	-	☐	☐	☐	☒	Complies Note 1 Note 2
§2.1051; §24.238	Band Edge Compliance	Nominal	-	☐	☐	☐	☒	Complies Note 1 Note 2
§2.1051; §24.238	Conducted Spurious Emissions	Nominal	-	☐	☐	☐	☒	Complies Note 1 Note 2
§2.1053; §24.238	Radiated Spurious Emissions	Nominal	Op. 1	☒	☐	☐	☐	Complies

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

Note 2: Leveraged from module certification Quectel EG25-G (FCC ID: XMR201903EG25G, IC ID: 10224A-201903EG25G)

6.3 FCC 27 / RSS-130, RSS-139, RSS-199

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§2.1046; §27.50	RF Output Power	Nominal	-	☐	☐	☐	■	Complies Note 1 Note 2
§2.1055; §27.54	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	Band Edge Compliance	Nominal	-	☐	☐	☐	■	Complies Note 1 Note 2
§2.1051; §27.53	Conducted Spurious Emissions	Nominal	-	☐	☐	☐	■	Complies Note 1 Note 2
§2.1053; §27.53	Radiated Spurious Emissions	Nominal	Op. 1	■	☐	☐	☐	Complies

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

Note 2: Leveraged from module certification Quectel EG25-G (FCC ID: XMR201903EG25G, IC ID: 10224A-201903EG25G)

7 Test Result Data

7.1 ERP/EIRP

FCC Rule Parts	Band	Frequency Range (MHz)	Power Conducted (W) Note 1	Emission Designator	Gain (dBi)	Gain Linear	EIRP (W) Note 2	ERP (W) Note 2	Limit EIRP (W)	Limit ERP (W)
24E	UMTS II	1852.4 – 1907.6	0.244	4M15F9W	2.4	1.738	0.424	-	2	-
27	UMTS IV	1712.4 – 1752.6	0.241	4M14F9W	1.6	1.445	0.348	-	1	-
22H	UMTS V	826.4 – 846.6	0.243	4M13F9W	0.4	1.096	0.266	0.162	-	7
24E	LTE 2	1860 – 1900	0.291	17M9G7D	2.4	1.738	0.506	-	2	-
24E	LTE 2	1860 – 1900	0.157	17M9W7D	2.4	1.738	0.273	-	2	-
24E	LTE 2	1850.7 – 1909.3	0.177	1M09W7D	2.4	1.738	0.308	-	2	-
27	LTE 4	1720 – 1745	0.308	17M9G7D	1.6	1.445	0.445	-	1	-
27	LTE 4	1720 – 1745	0.165	17M9W7D	1.6	1.445	0.238	-	1	-
27	LTE 4	1710.7 – 1754.3	0.182	1M09W7D	1.6	1.445	0.263	-	1	-
22H	LTE 5	829 – 844	0.251	8M93G7D	0.4	1.096	0.275	0.168	-	7
22H	LTE 5	829 – 844	0.165	8M93W7D	0.4	1.096	0.181	0.110	-	7
22H	LTE 5	825.5 – 847.5	0.228	2M70G7D	0.4	1.096	0.250	0.152	-	7
22H	LTE 5	824.7 – 848.3	0.188	1M09W7D	0.4	1.096	0.206	0.126	-	7
27	LTE 7	2510 – 2560	0.244	17M9G7D	5.4	3.467	0.846	-	1	-
27	LTE 7	2510 – 2560	0.159	17M9W7D	5.4	3.467	0.551	-	1	-
27	LTE 7	2502.5 – 2567.5	0.16	4M49W7D	5.4	3.467	0.555	-	1	-
27	LTE 12	704 – 711	0.269	8M93G7D	0.5	1.122	0.302	0.184	-	3
27	LTE 12	704 – 711	0.169	8M93W7D	0.5	1.122	0.190	0.116	-	3
27	LTE 12	699.7 – 715.3	0.191	1M09W7D	0.5	1.122	0.214	0.131	-	3
24E	LTE 25	1860 – 1905	0.244	17M9G7D	2.4	1.738	0.424	-	2	-
24E	LTE 25	1860 – 1905	0.173	17M9W7D	2.4	1.738	0.301	-	2	-
24E	LTE 25	1855 – 1910	0.285	8M91G7D	2.4	1.738	0.495	-	2	-
24E	LTE 25	1850.7 – 1914.3	0.189	1M09W7D	2.4	1.738	0.328	-	2	-

90	LTE 26	819 – 819	0.255	8M91G7D	0.4	1.096	0.280	0.170	-	7
90	LTE 26	819 – 819	0.174	8M91W7D	0.4	1.096	0.191	0.116	-	7
90	LTE 26	814.7 – 823.3	0.245	1M09G7D	0.4	1.096	0.269	0.164	-	7
90	LTE 26	814.7 – 823.3	0.197	1M09W7D	0.4	1.096	0.216	0.132	-	7
22H	LTE 26	831.5 – 841.5	0.237	13M5G7D	0.4	1.096	0.260	0.158	-	7
22H	LTE 26	831.5 – 841.5	0.167	13M4W7D	0.4	1.096	0.183	0.112	-	7
22H	LTE 26	826.5 – 846.5	0.178	4M49W7D	0.4	1.096	0.195	0.119	-	7
27	LTE 38	2580 – 2610	0.244	17M8G7D	5.4	3.467	0.846	-	1	-
27	LTE 38	2580 – 2610	0.174	17M8W7D	5.4	3.467	0.603	-	1	-
27	LTE 38	2575 – 2615	0.245	8M91G7D	5.4	3.467	0.850	-	1	-
27	LTE 41	2506 - 2680	0.243	17M9G7D	5.4	3.467	0.843	-	1	-
27	LTE 41	2506 - 2680	0.171	17M9W7D	5.4	3.467	0.593	-	1	-
27	LTE 41	2501 - 2685	0.243	8M91G7D	5.4	3.467	0.843	-	1	-
27	LTE 41	2498.5 - 2687.5	0.173	4M50W7D	5.4	3.467	0.600	-	1	-

Note 1: Power Conducted (dBm) leveraged from test report “HR/2019/1001601” prepared by SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch of cellular module Quectel EG25-G (FCC ID: XMR201903EG25G, IC ID: 10224A-201903EG25G).

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.

7.2 Radiated Spurious Emissions

7.2.1 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

7.2.2 Limits:

7.2.2.1 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.

7.2.2.2 RSS-130 Part 4.7, RSS-132 Part 5.5; RSS-133 Part 6.5; RSS-139 Part 6.6, RSS-199 Part 4.5 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.

7.2.3 Test conditions and setup:

Ambient Temperature (°C)	EUT Set-Up #	EUT operating mode	Power Input
22.0	1, 2	Op. 1	14 VDC

7.2.4 Measurement result:

Plot #	Channel	EUT Set-Up #	EUT operating mode	Scan Frequency	Limit (dBm)	Result
1-3	Low	1	LTE Band 2	30 MHz – 18 GHz	-13	Pass
4-8	Mid			9 kHz – 26 GHz	-13	Pass
9-11	High			30 MHz – 18 GHz	-13	Pass
12-14	Low	1	LTE Band 4	30 MHz – 18 GHz	-13	Pass
15-18	Mid			9 kHz – 18 GHz	-13	Pass
19-21	High			30 MHz – 18 GHz	-13	Pass
22-24	Low	1	LTE Band 5	30 MHz – 9 GHz	-13	Pass
25-28	Mid			9 kHz – 9 GHz	-13	Pass
29-31	High			30 MHz – 9 GHz	-13	Pass
32-34	Low	1	LTE Band 12	30 MHz – 9 GHz	-13	Pass
35-38	Mid			9 kHz – 9 GHz	-13	Pass
39-41	High			30 MHz – 9 GHz	-13	Pass
42-44	Low	1	UMTS Band II	30 MHz – 18 GHz	-13	Pass
45-49	Mid			9 kHz – 26 GHz	-13	Pass
50-52	High			30 MHz – 18 GHz	-13	Pass
53-55	Low	1	UMTS Band IV	30 MHz – 18 GHz	-13	Pass
56-59	Mid			9 kHz – 18 GHz	-13	Pass
60-62	High			30 MHz – 18 GHz	-13	Pass
63-65	Low	1	UMTS Band V	30 MHz – 9 GHz	-13	Pass
66-69	Mid			9 kHz – 9 GHz	-13	Pass
70-72	High			30 MHz – 9 GHz	-13	Pass
73-75	Low	1	LTE Band 7	30 MHz – 18 GHz	-13	Pass
76-80	Mid			9 kHz – 26 GHz	-13	Pass
81-83	High			30 MHz – 18 GHz	-13	Pass
84-87	Mid	2	LTE Band 38	9 kHz – 18 GHz	-13	Pass
88-90	Low	1	LTE Band 41	30 MHz – 18 GHz	-13	Pass
91-95	Mid			9 kHz – 26 GHz	-13	Pass
96-98	High			30 MHz – 18 GHz	-13	Pass
99-101	Low	1	LTE Band 25	30 MHz – 18 GHz	-13	Pass
102-106	Mid			9 kHz – 26 GHz	-13	Pass
107-109	High			30 MHz – 18 GHz	-13	Pass
110-112	Low	1	LTE Band 26	30 MHz – 18 GHz	-13	Pass
113-116	Mid			9 kHz – 18 GHz	-13	Pass
117-119	High			30 MHz – 18 GHz	-13	Pass
120-122	Low	2	LTE Band 2	30 MHz – 18 GHz	-13	Pass
123-127	Mid			9 kHz – 26 GHz	-13	Pass
128-130	High			30 MHz – 18 GHz	-13	Pass
131-133	Low	2	LTE Band 25	30 MHz – 18 GHz	-13	Pass
134-138	Mid			9 kHz – 26 GHz	-13	Pass
139-141	High			30 MHz – 18 GHz	-13	Pass
142-144	Low	2	UMTS Band 2	30 MHz – 18 GHz	-13	Pass
145-149	Mid			9 kHz – 26 GHz	-13	Pass
150-152	High			30 MHz – 18 GHz	-13	Pass

7.2.5 Measurement Plots:

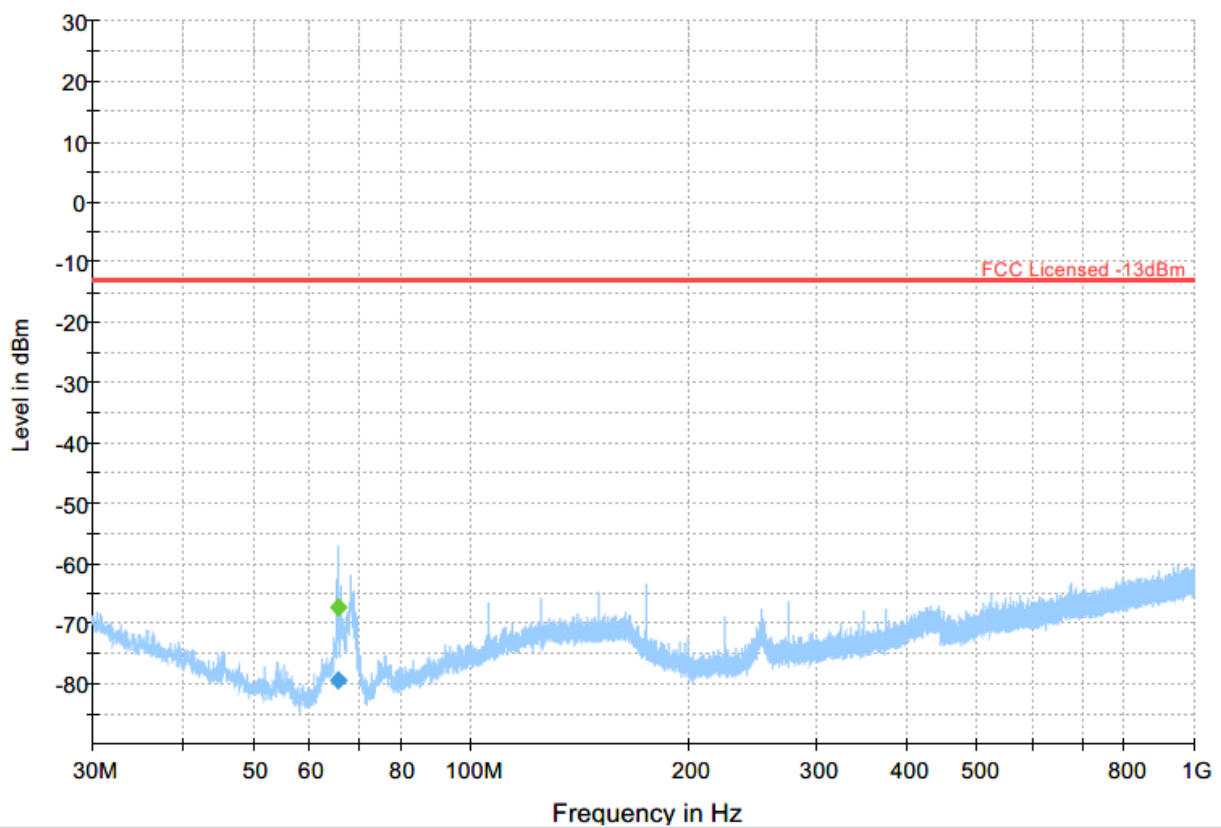
LTE Band 2

Plot #1 Radiated Emissions: 30 MHz – 1GHz

Channel: Low

Final Result

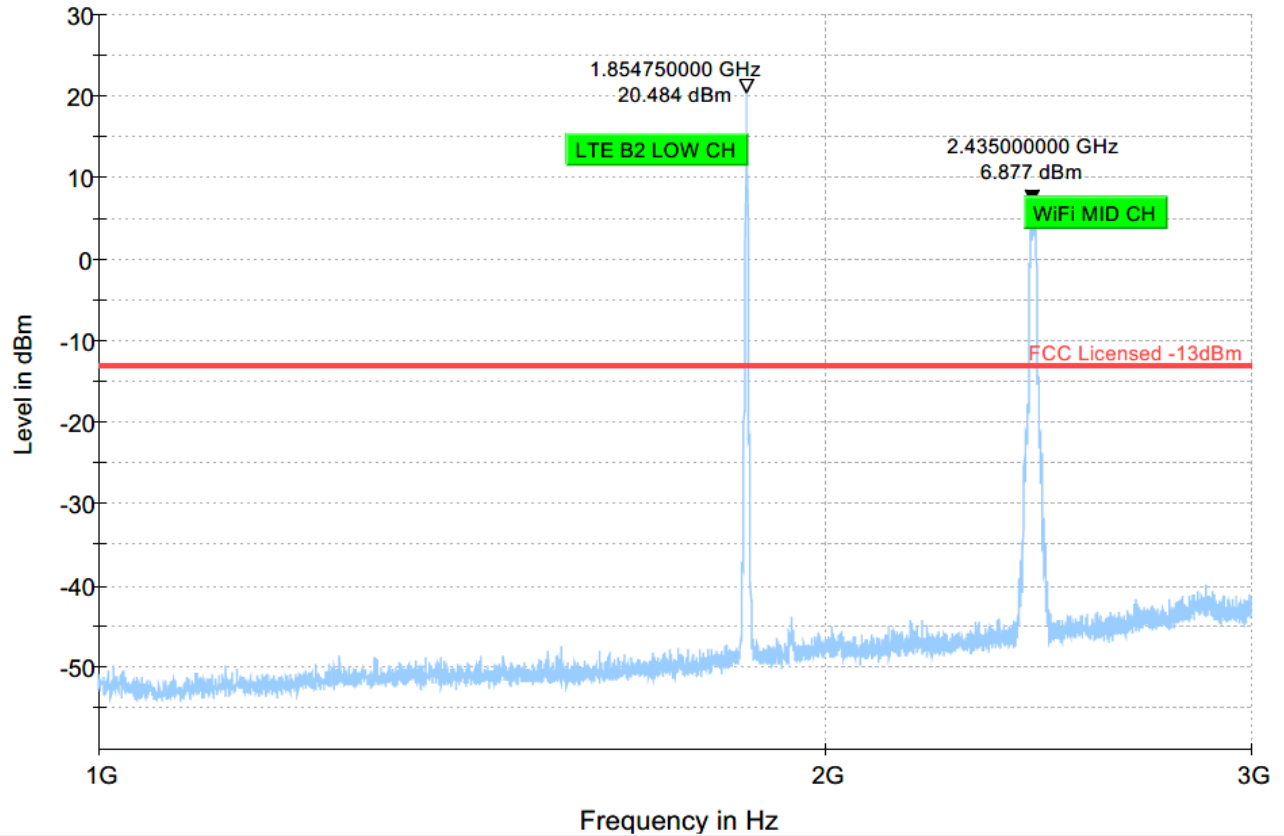
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
65.696	---	-67.27	---	---	500.0	100.000	149.0	V	195.0	-88.3	
65.696	-79.37	---	-13.00	66.37	500.0	100.000	149.0	V	195.0	-88.3	



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

Plot # 2 Radiated Emissions: 1-3 GHz

Channel: Low



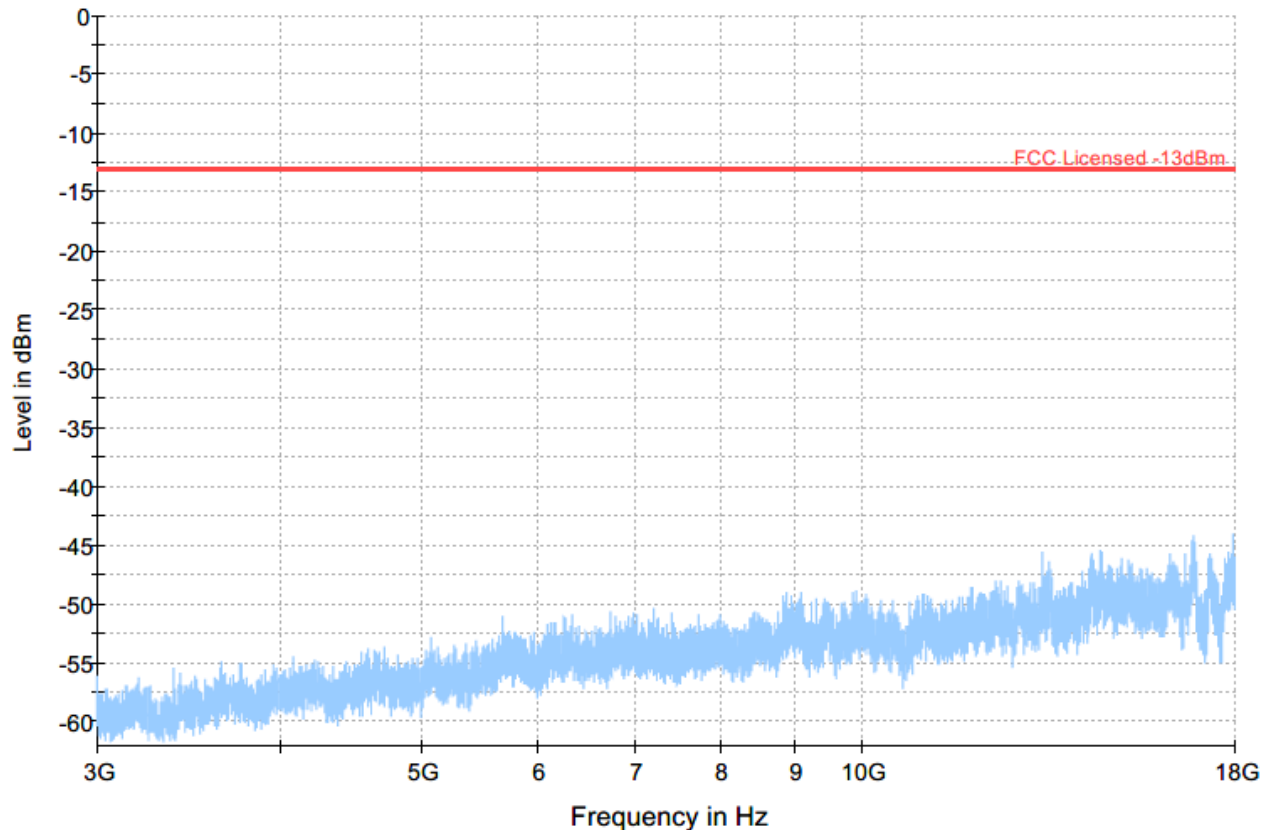
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot # 3 Radiated Emissions: 3-18 GHz

Channel: Low



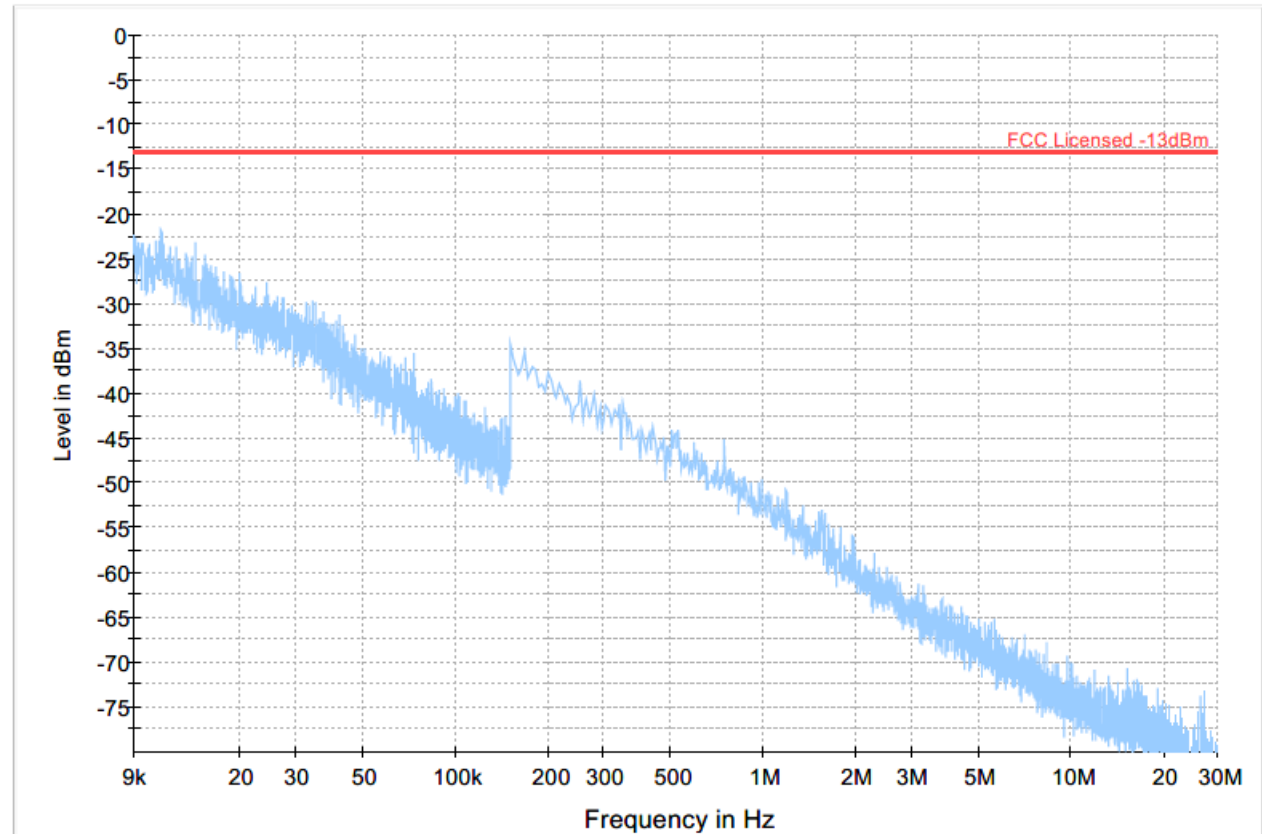
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
Final_Result PK+

FCC Licensed -13dBm

Plot #4 Radiated Emissions: 9 kHz – 30 MHz

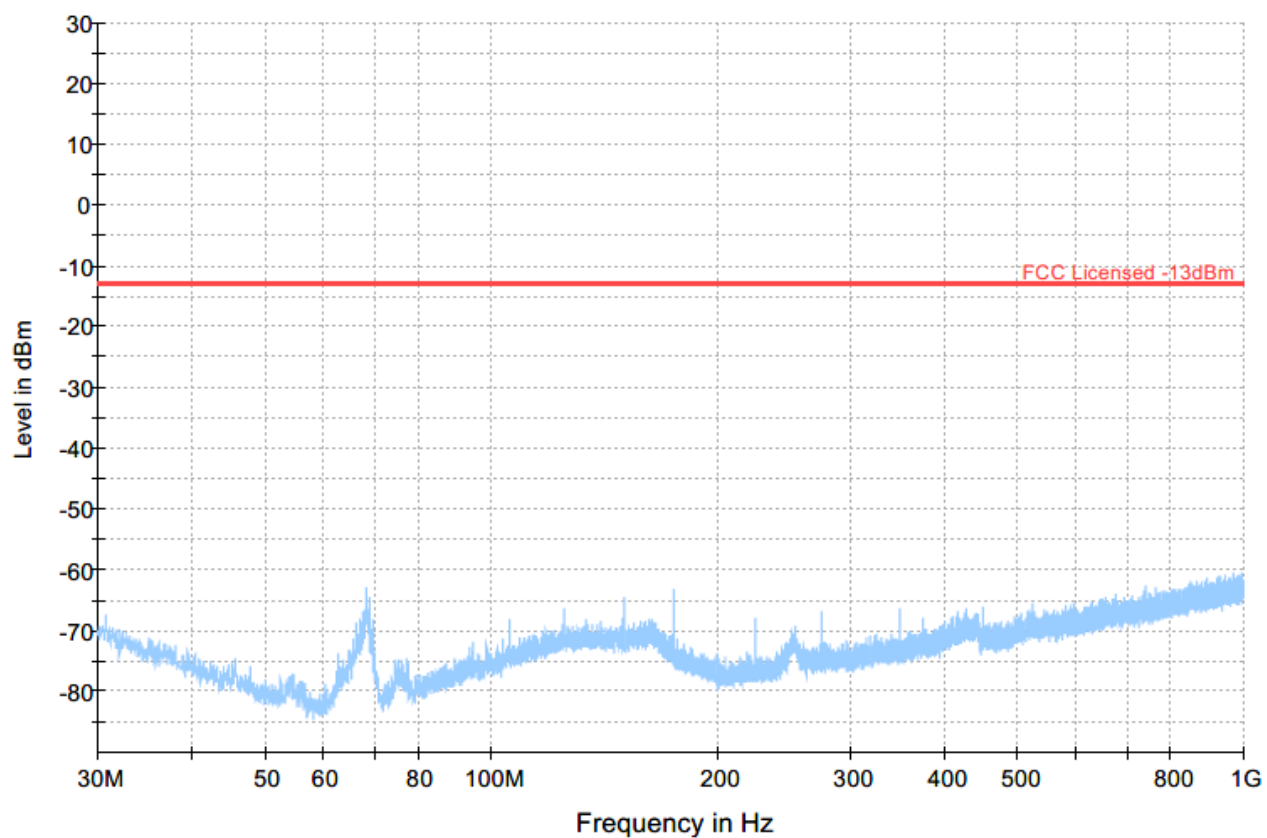
Channel: Mid



— Preview Result 1-PK+ * Critical_Freqs PK+ — FCC Licensed -13dBm ◆ Final_Result RM

Plot #5 Radiated Emissions: 30 MHz – 1 GHz

Channel: Mid



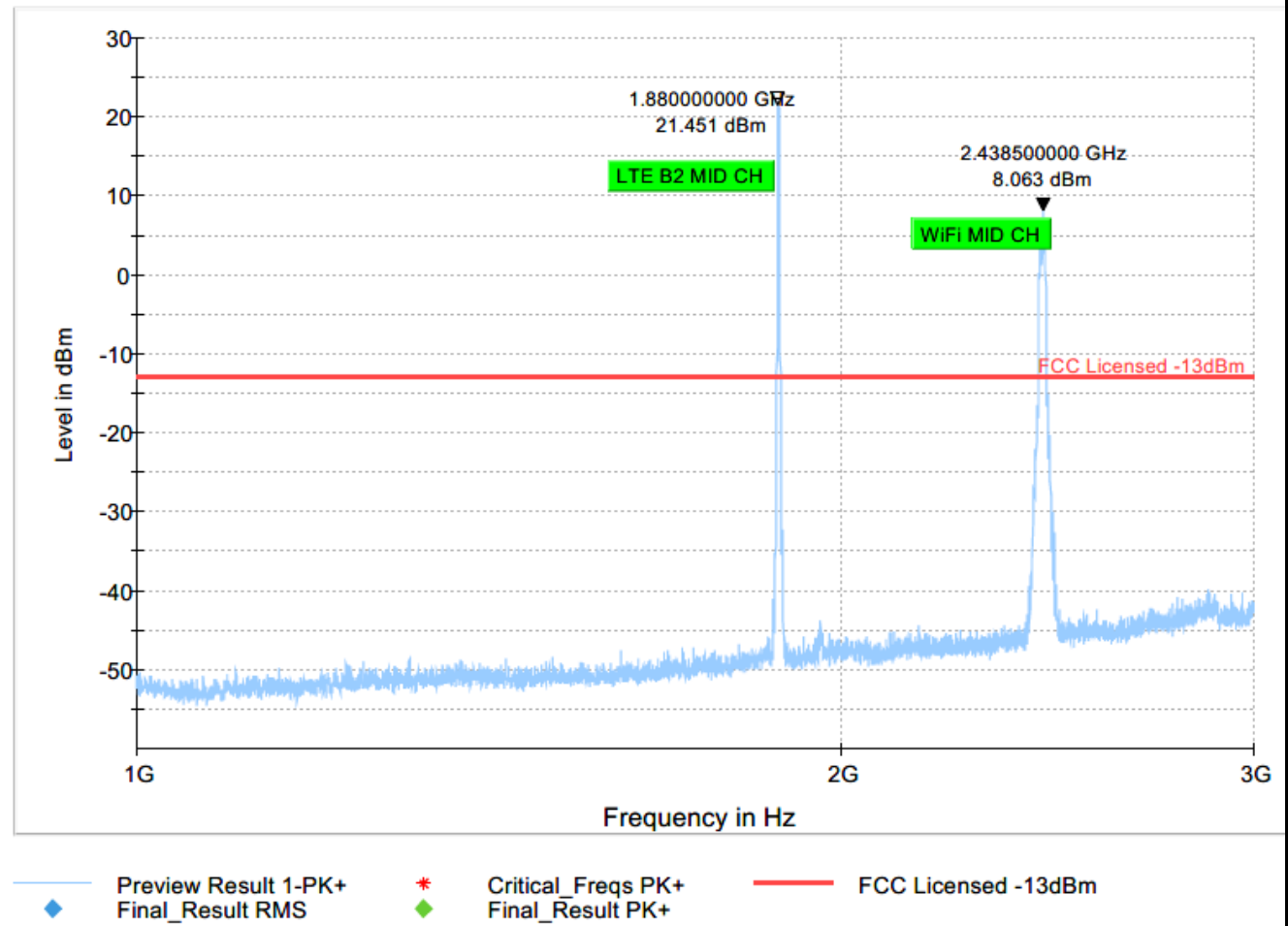
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

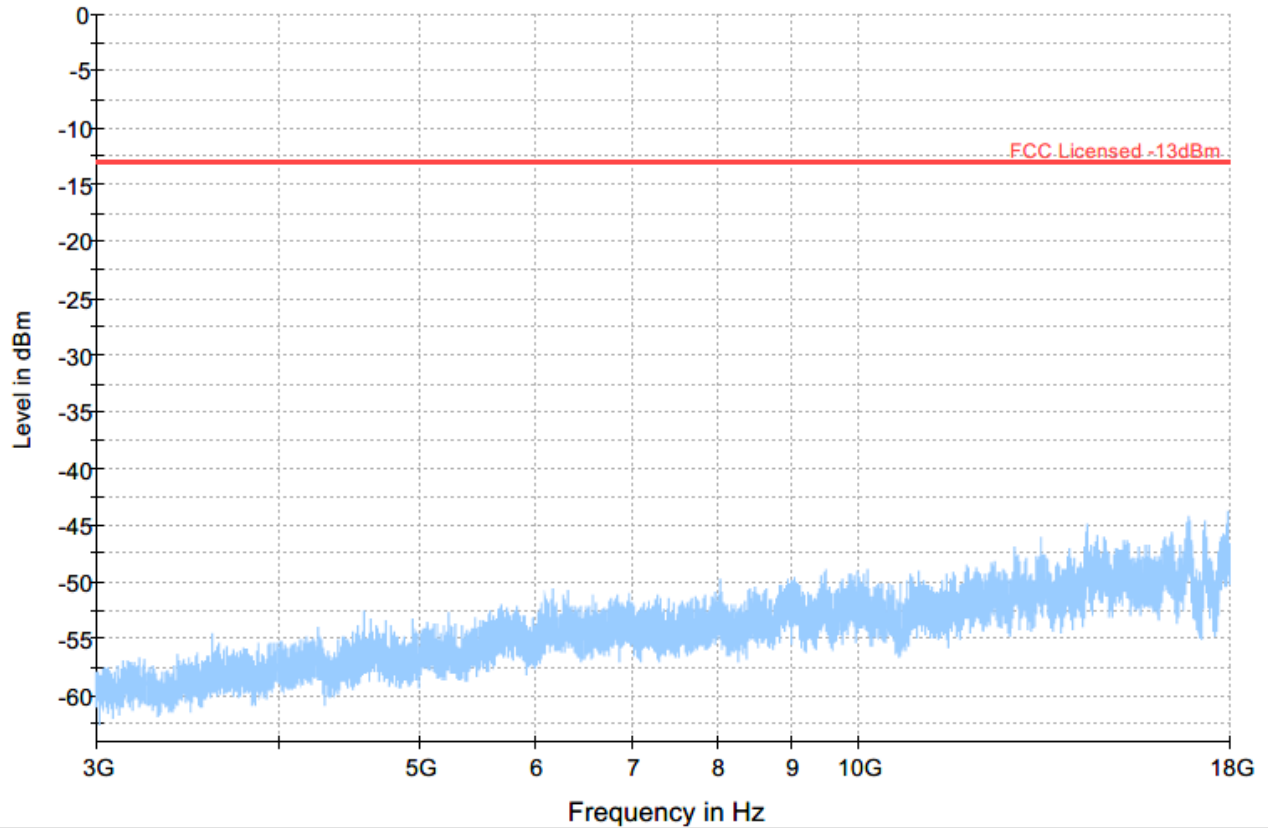
Plot #6 Radiated Emissions: 1-3 GHz

Channel: Mid



Plot #7 Radiated Emissions: 3-18 GHz

Channel: Mid



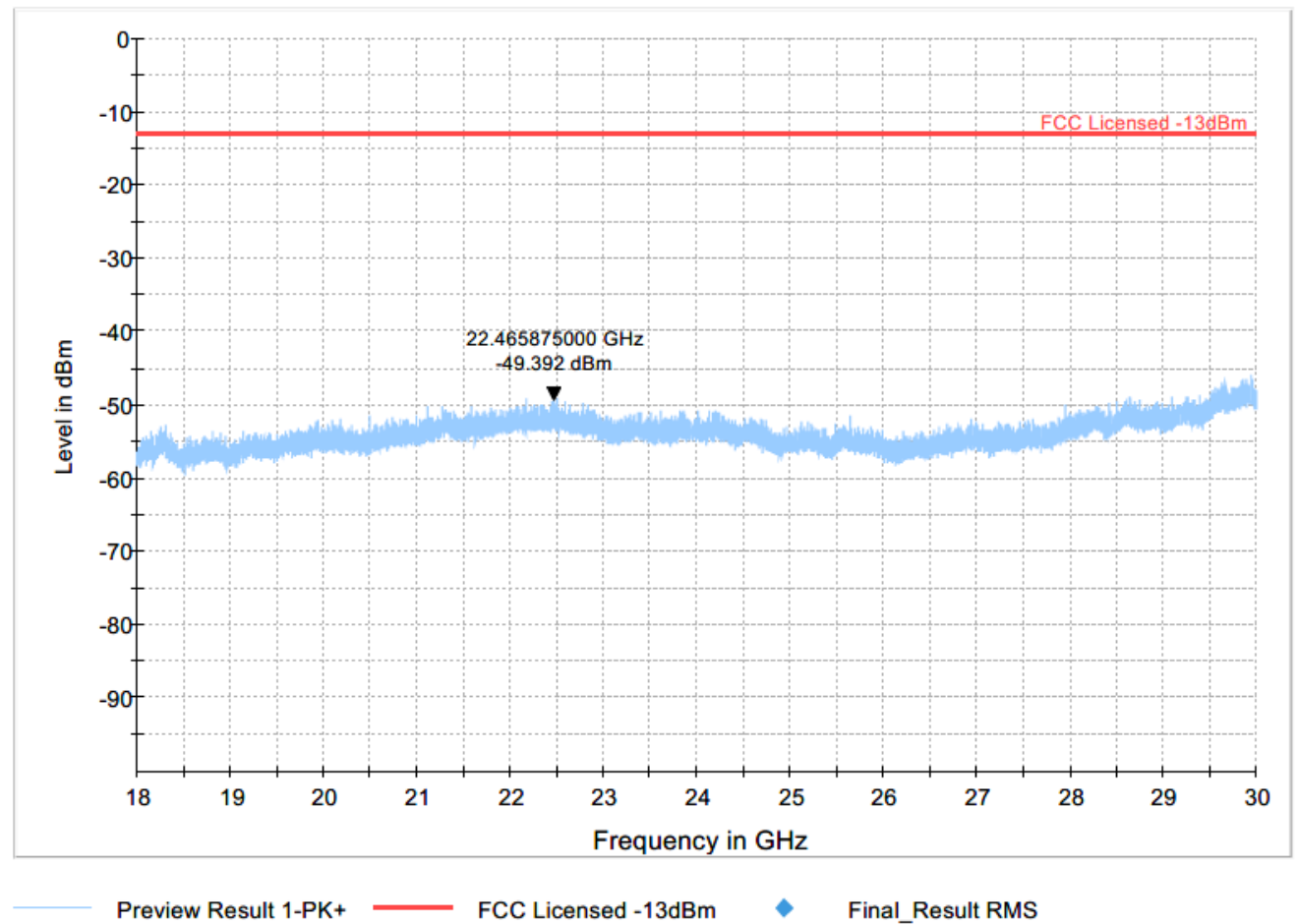
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
Final_Result PK+

FCC Licensed -13dBm

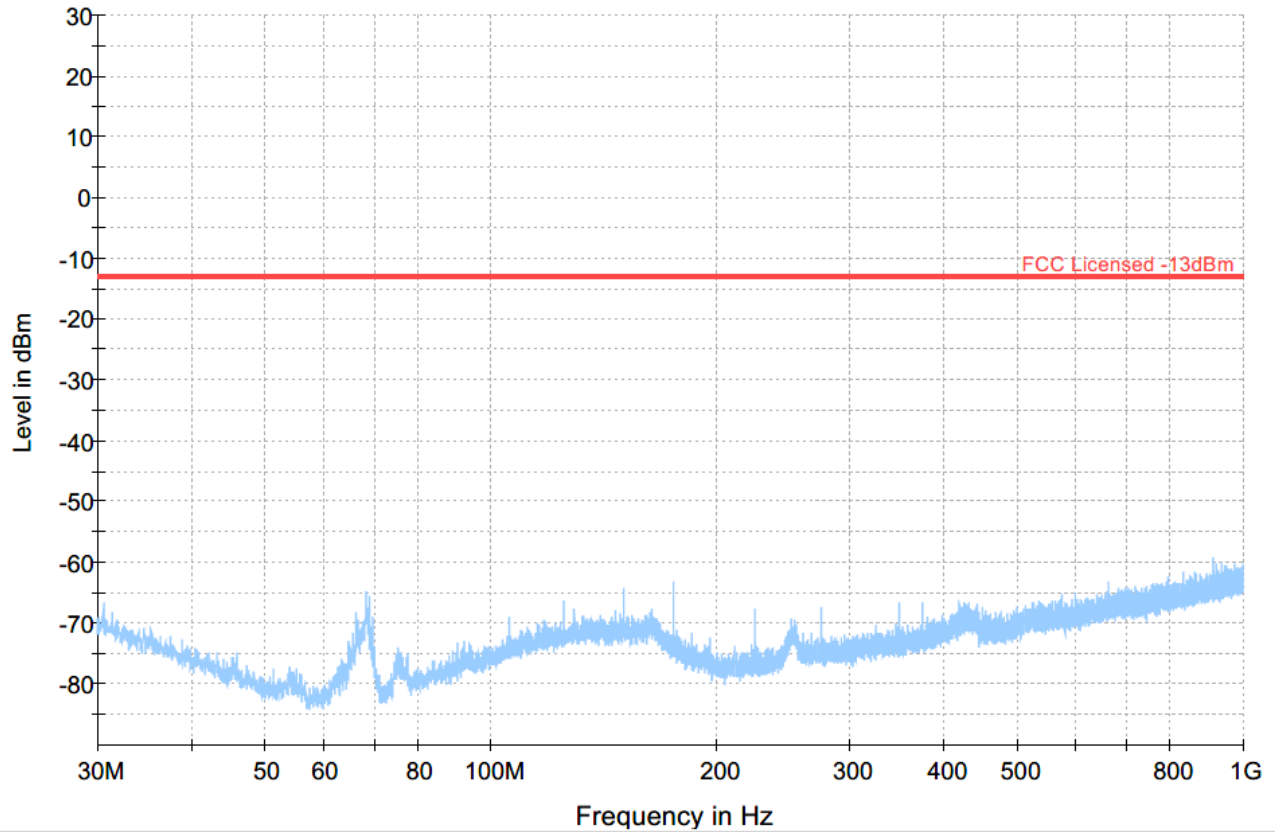
Plot #8 Radiated Emissions: 18-30 GHz

Channel: Mid



Plot #9 Radiated Emissions: 30 MHz – 1 GHz

Channel: High



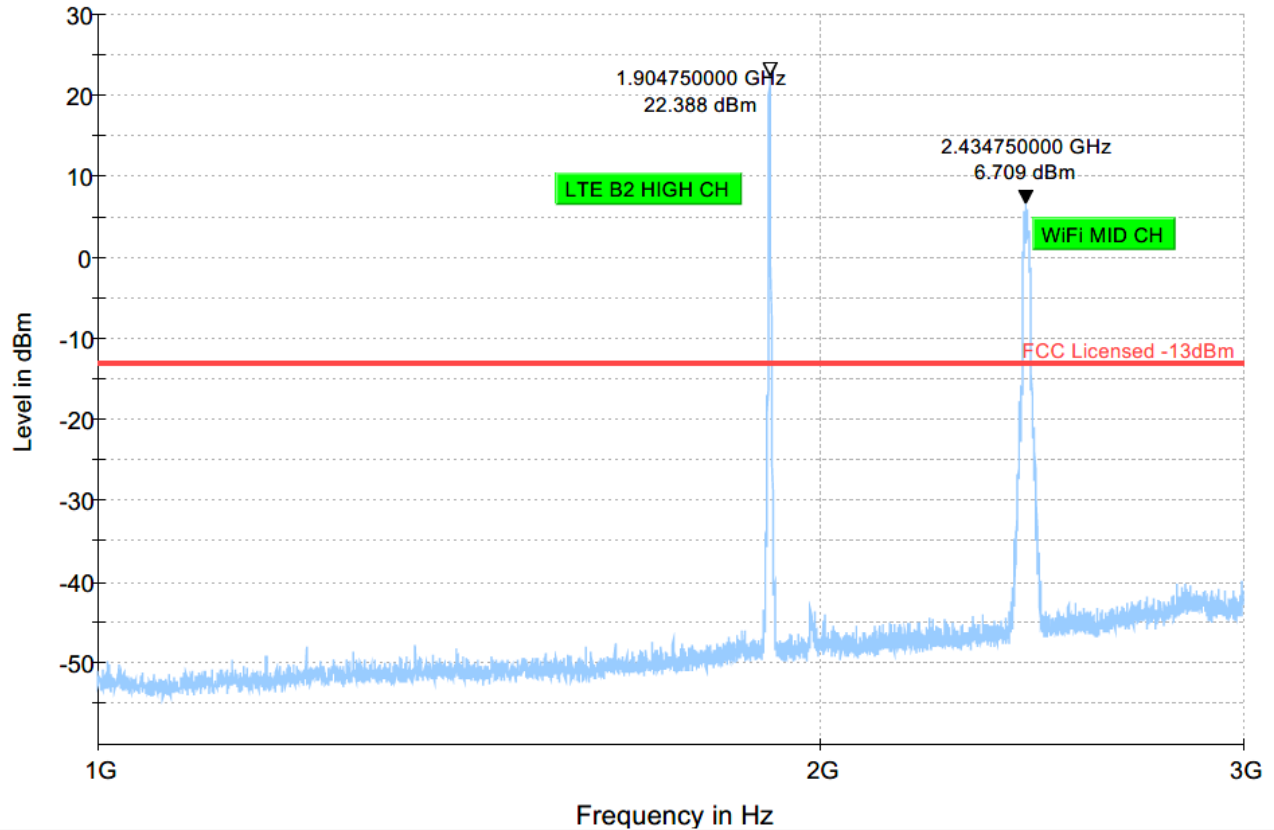
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #10 Radiated Emissions: 1-3 GHz

Channel: High



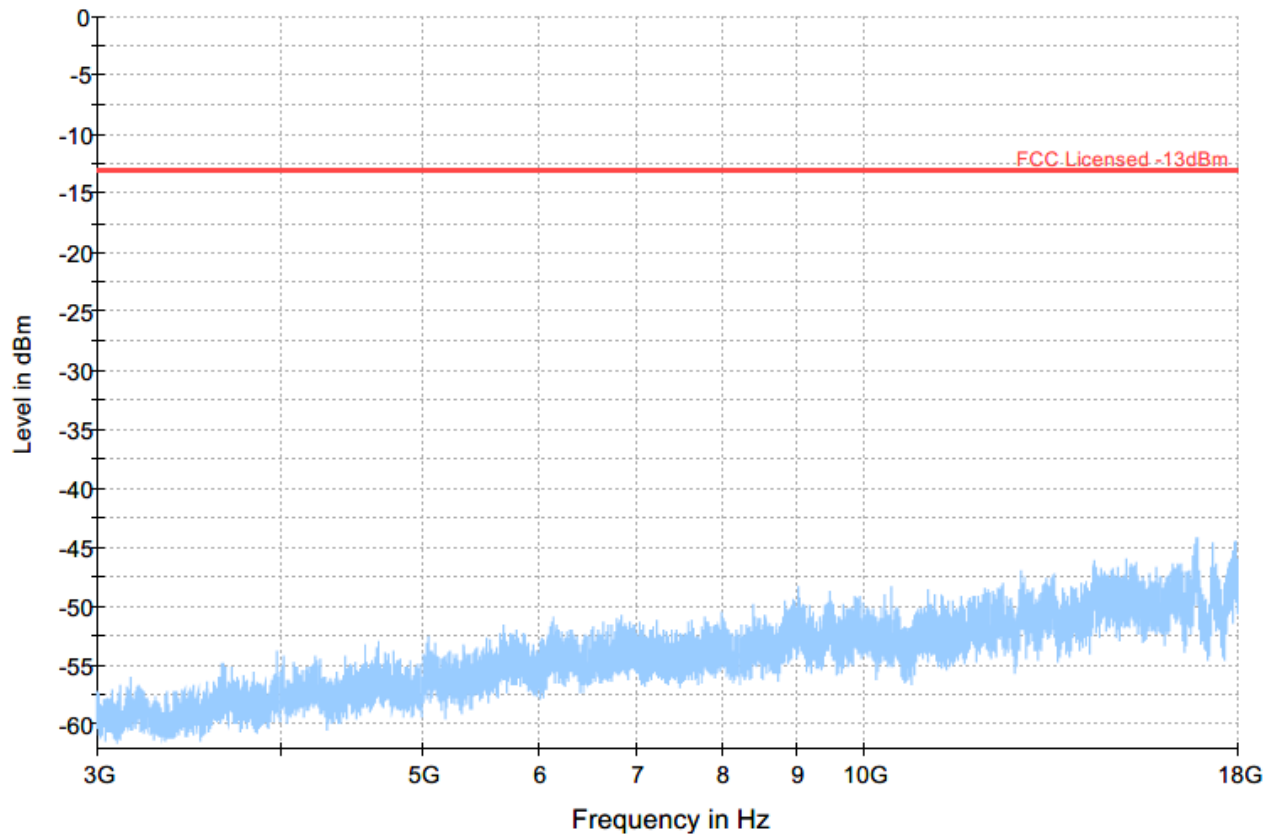
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #11 Radiated Emissions: 3-18 GHz

Channel: High



Preview Result 1-PK+
Final_Result RMS

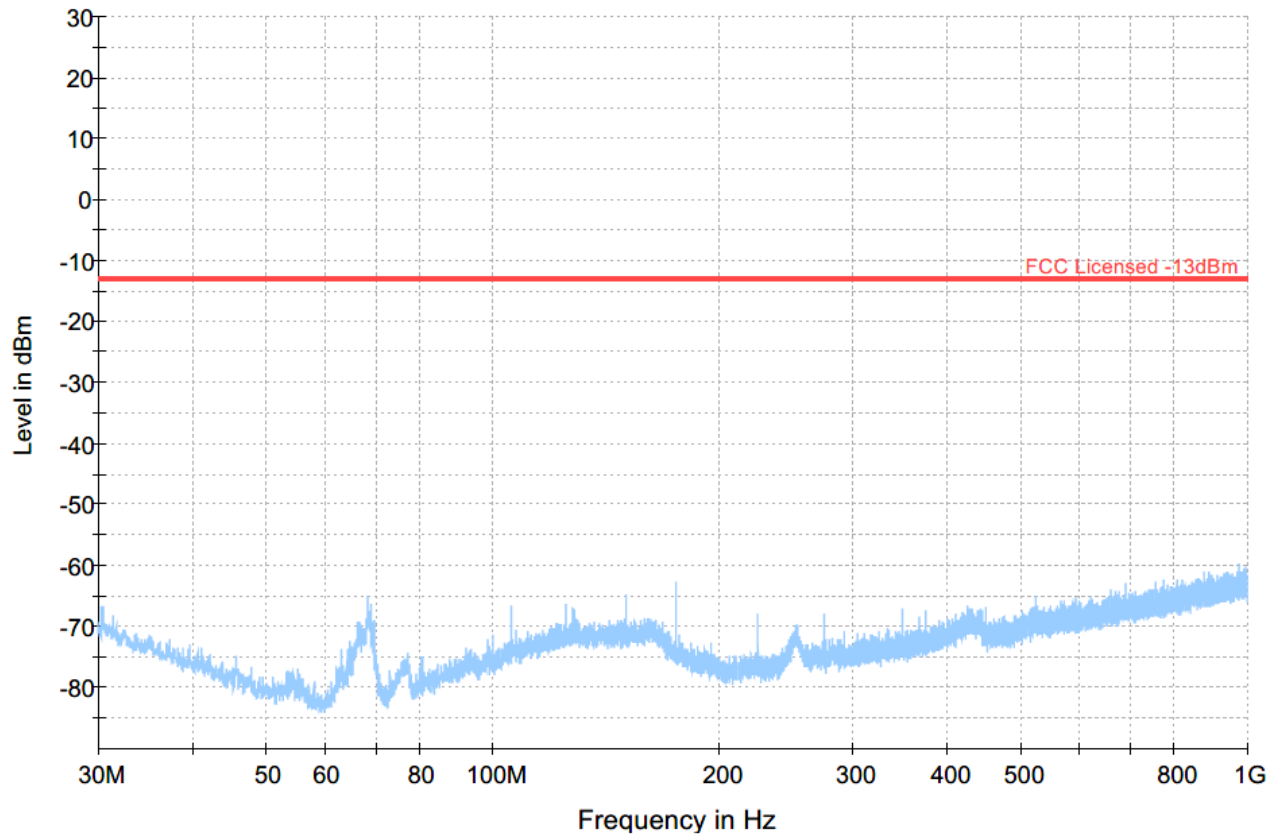
* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

LTE Band 4

Plot #12 Radiated Emissions: 30 MHz – 1GHz

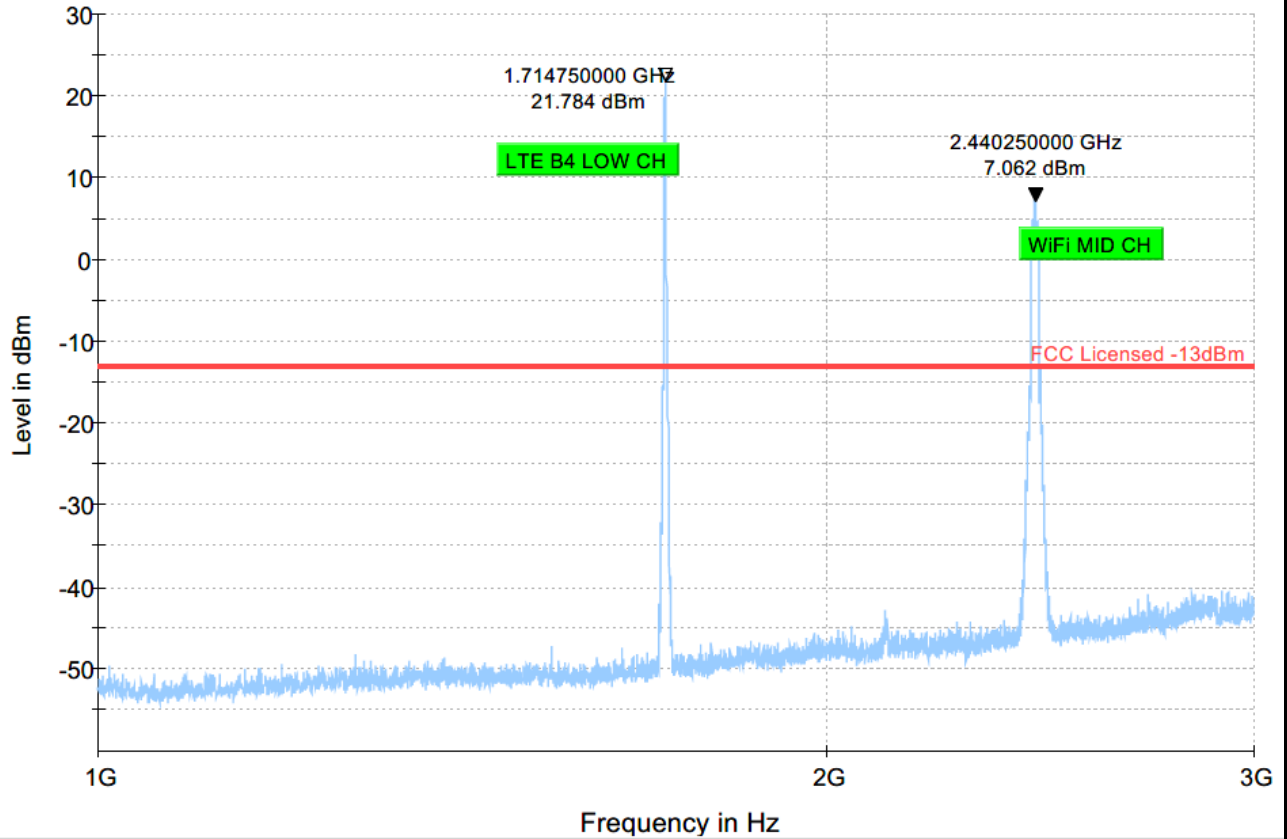
Channel: Low



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

Plot # 13 Radiated Emissions: 1-3 GHz

Channel: Low



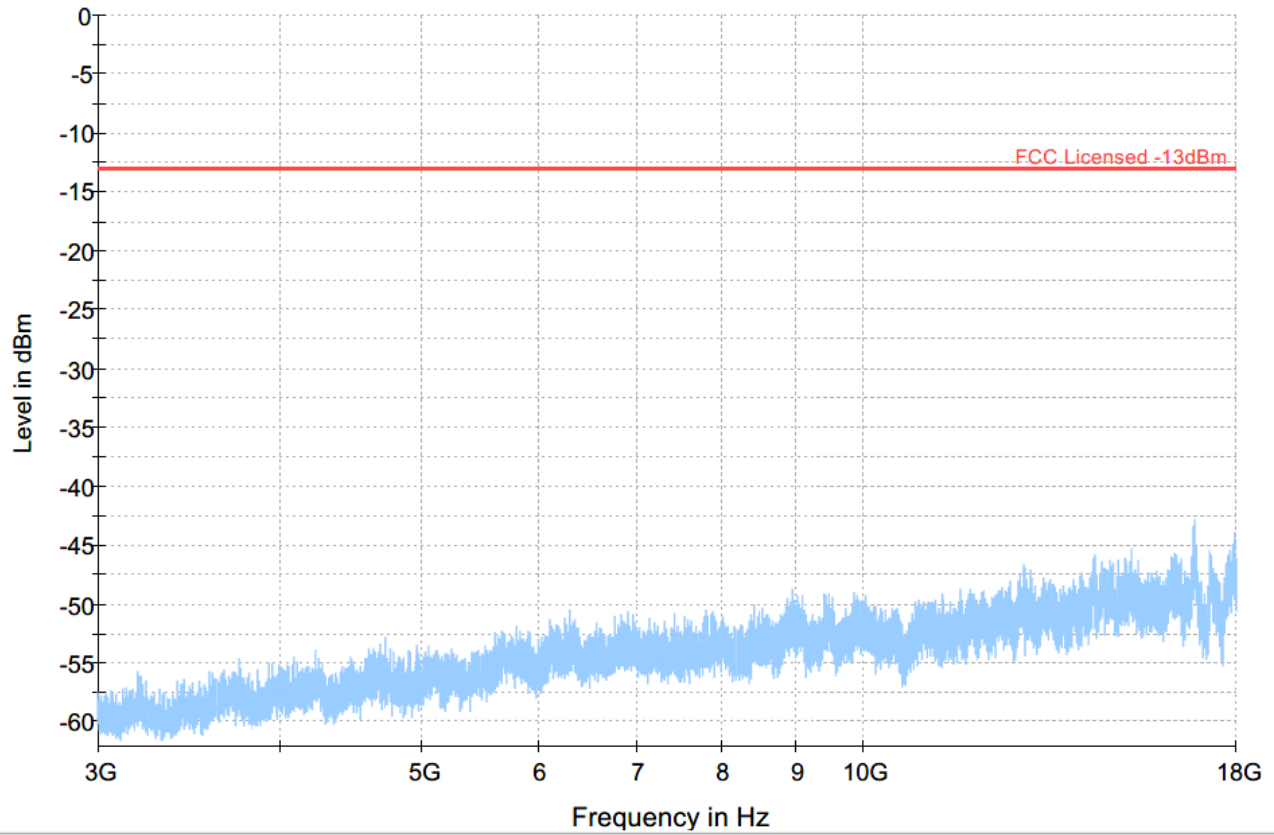
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot # 14 Radiated Emissions: 3-18 GHz

Channel: Low



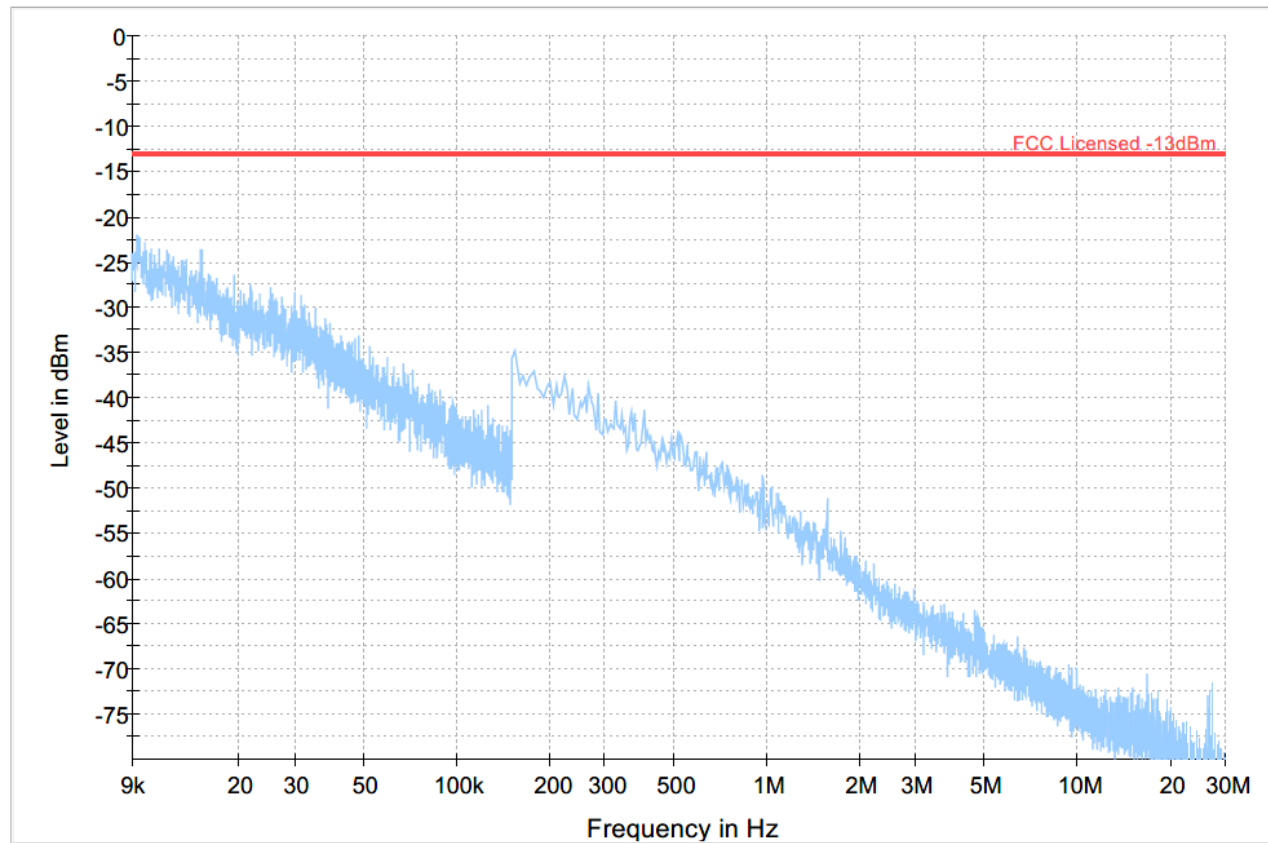
◆ Preview Result 1-PK+
◆ Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

— FCC Licensed -13dBm

Plot #15 Radiated Emissions: 9 kHz – 30 MHz

Channel: Mid



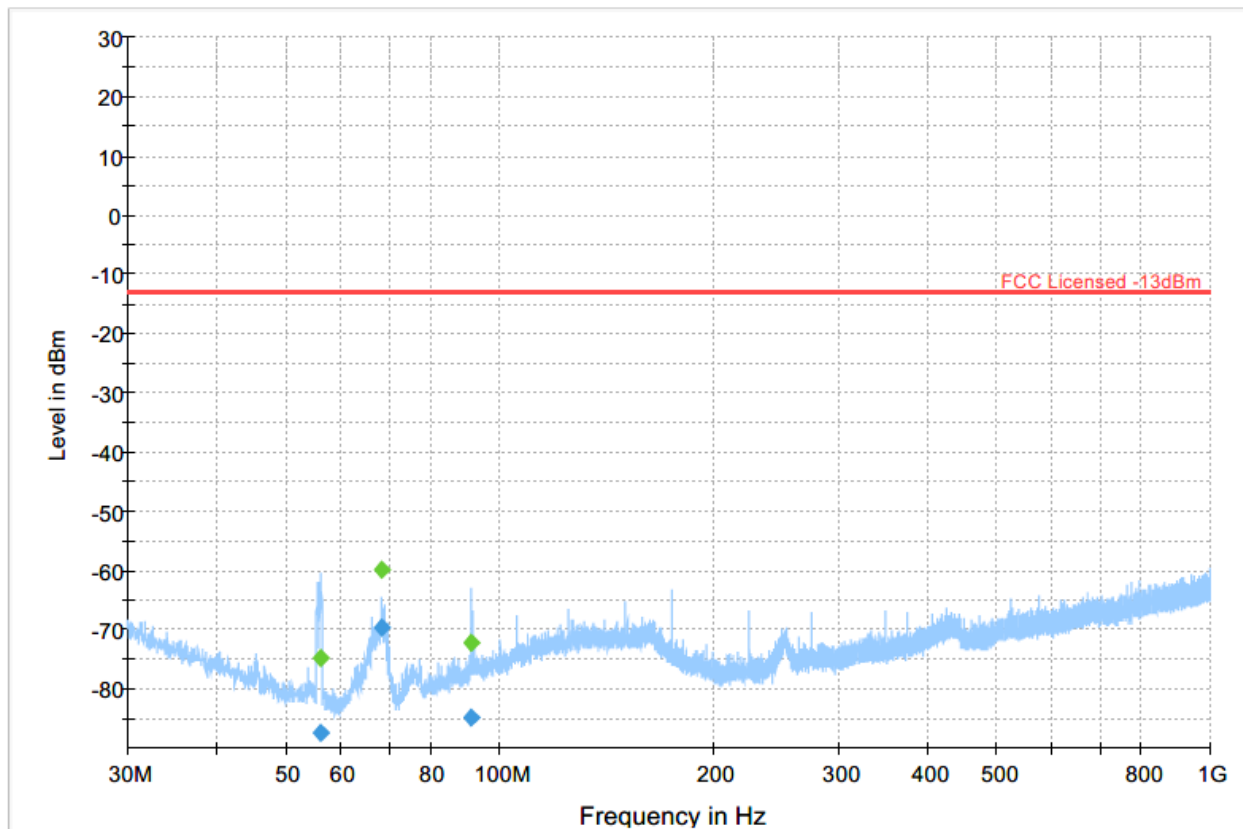
— Preview Result 1-PK+ * Critical_Freqs PK+ — FCC Licensed -13dBm ◆ Final_Result RM

Plot #16 Radiated Emissions: 30 MHz – 1 GHz

Channel: Mid

Final Result

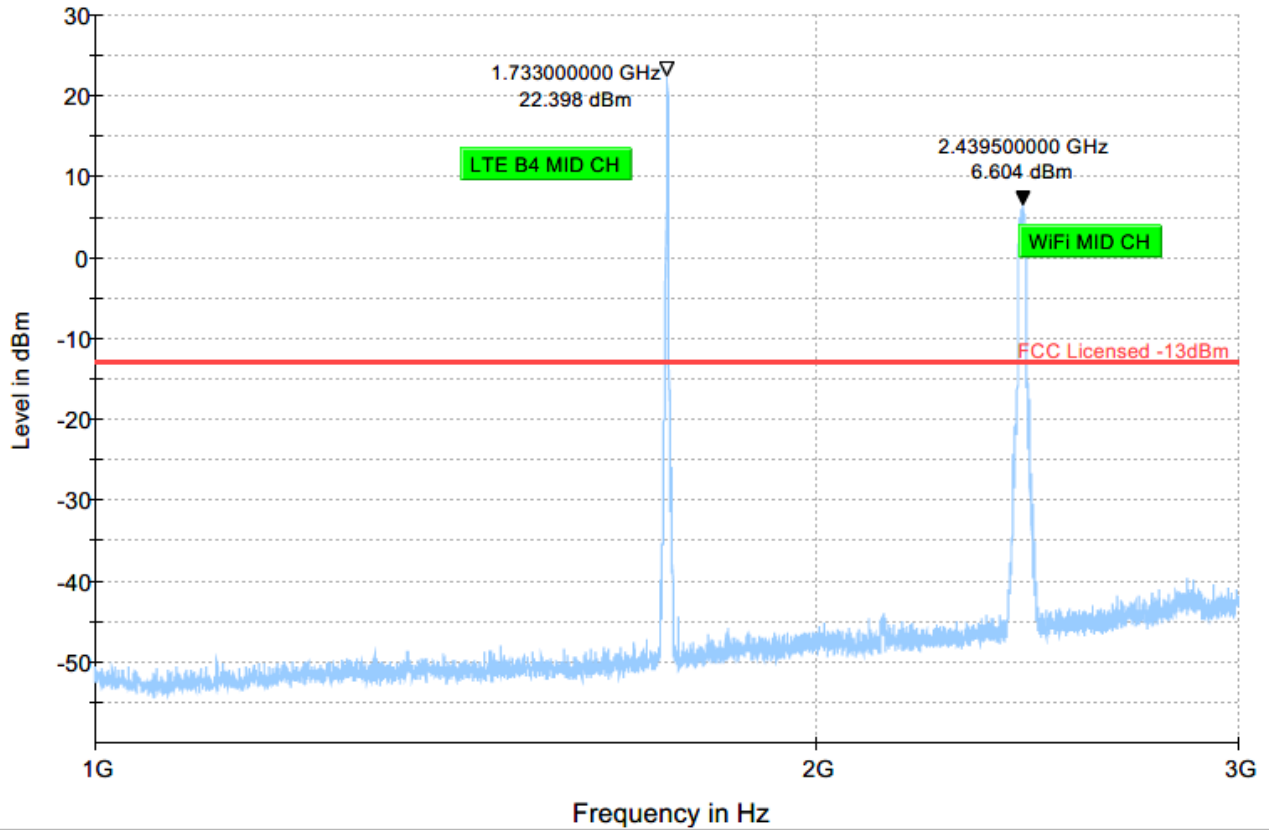
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
56.069	---	-74.77	---	---	500.0	100.000	150.0	V	88.0	-87.6	
56.069	-87.35	---	-13.00	74.35	500.0	100.000	150.0	V	88.0	-87.6	
68.218	-69.69	---	-13.00	56.69	500.0	100.000	275.0	V	359.0	-88.1	
68.218	---	-59.77	---	---	500.0	100.000	275.0	V	359.0	-88.1	
91.304	-84.84	---	-13.00	71.84	500.0	100.000	202.0	V	126.0	-83.1	
91.304	---	-72.19	---	---	500.0	100.000	202.0	V	126.0	-83.1	



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

Plot #17 Radiated Emissions: 1-3 GHz

Channel: Mid



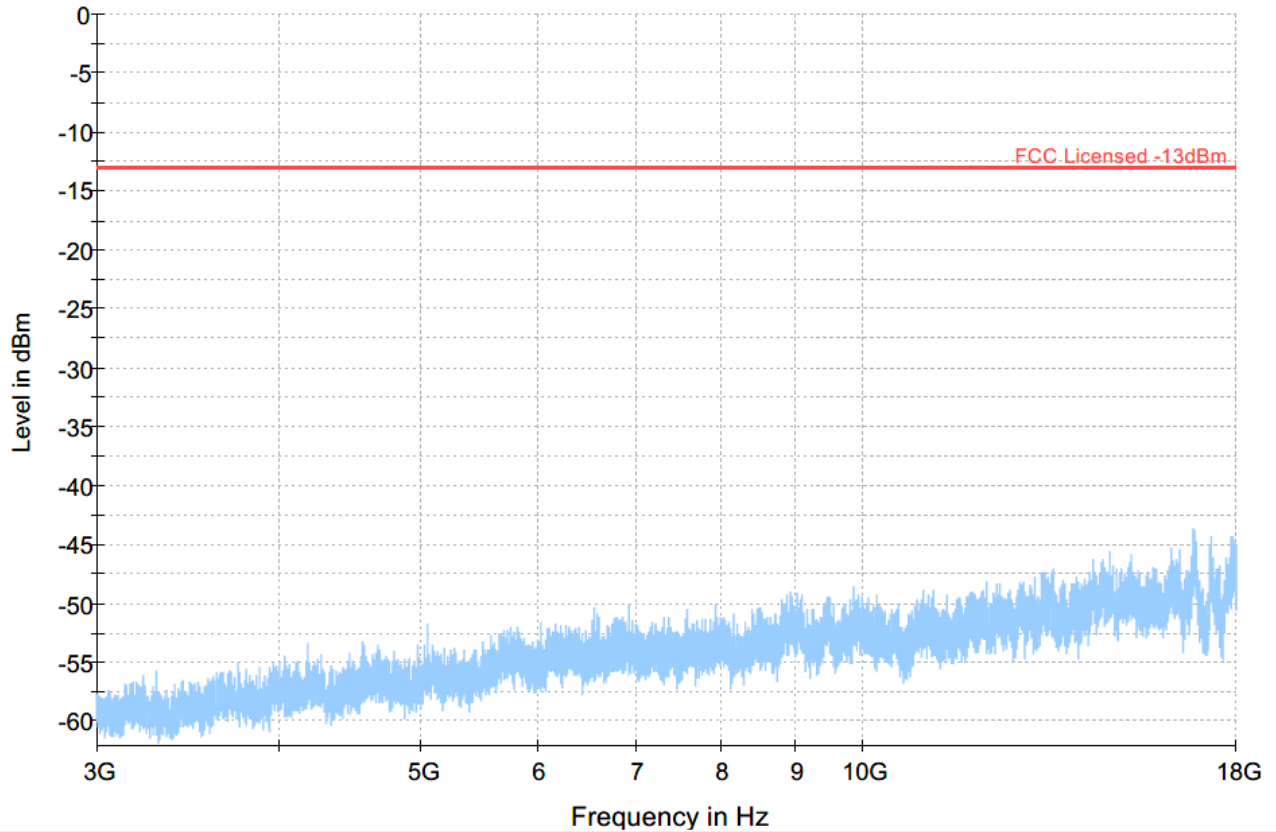
◆ Preview Result 1-PK+
◆ Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

— FCC Licensed -13dBm

Plot #18 Radiated Emissions: 3-18 GHz

Channel: Mid



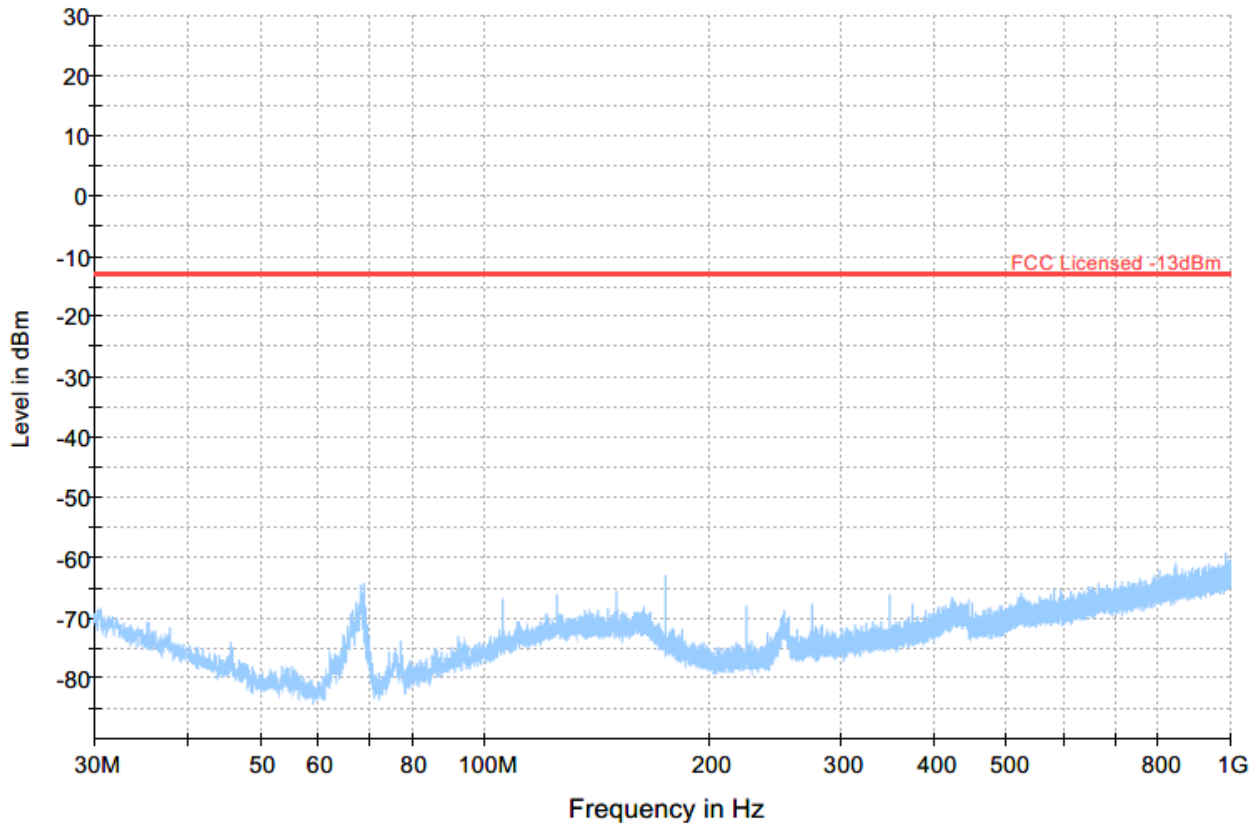
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #19 Radiated Emissions: 30 MHz – 1 GHz

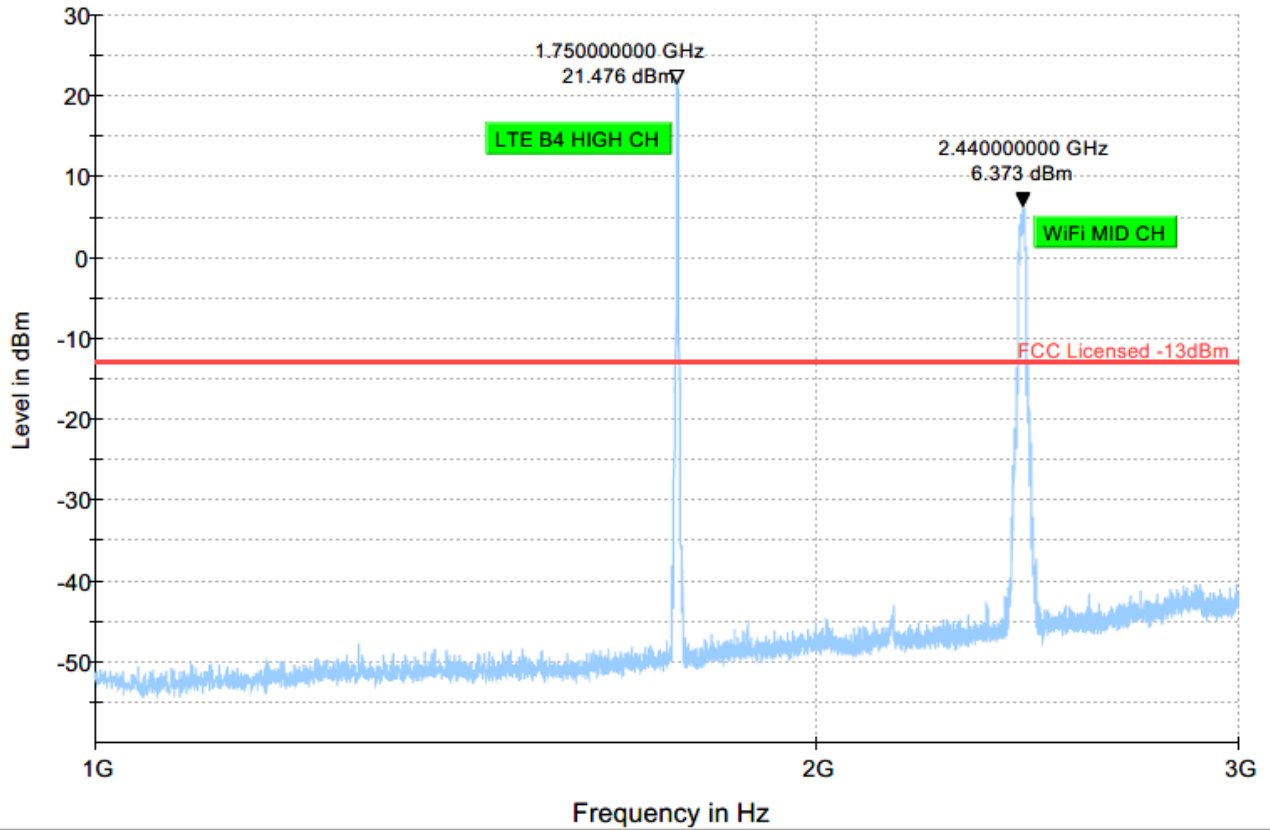
Channel: High



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

Plot #20 Radiated Emissions: 1-3 GHz

Channel: High



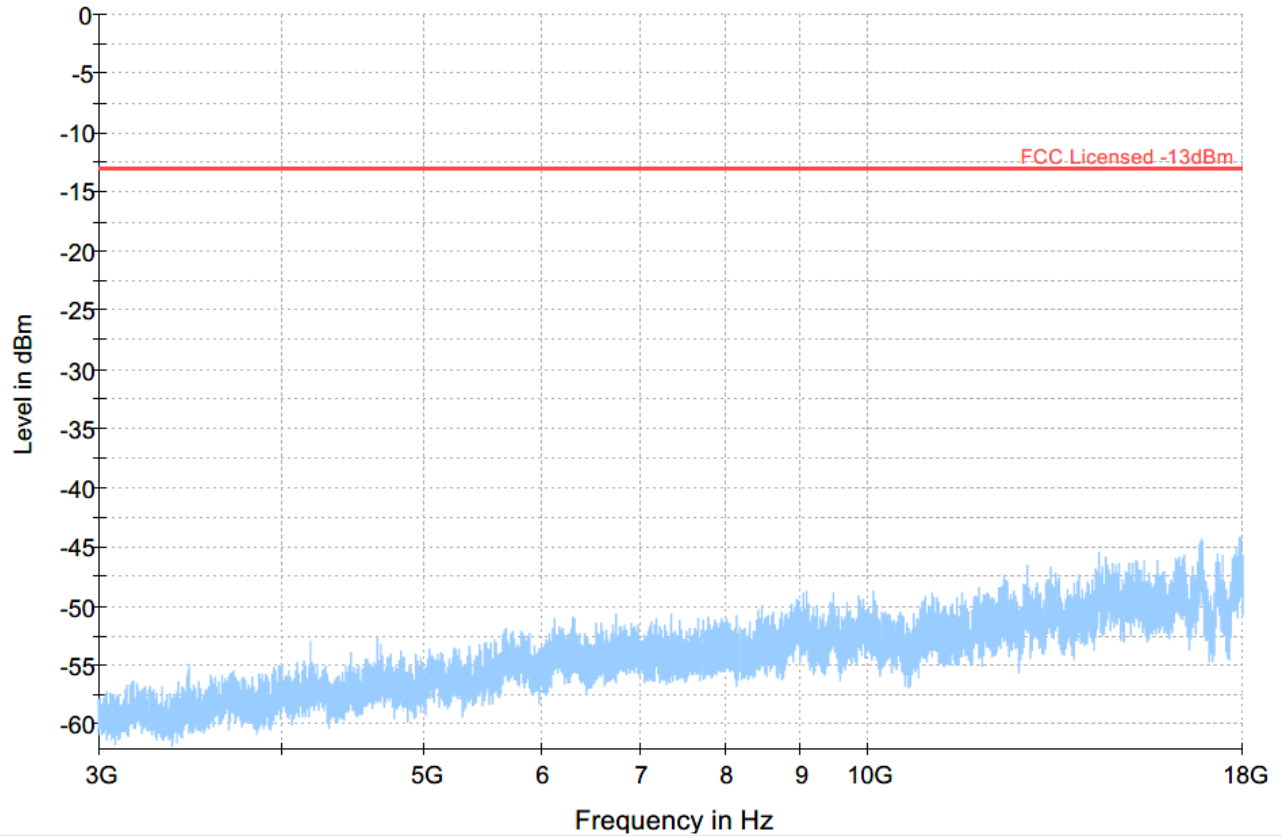
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #21 Radiated Emissions: 3-18 GHz

Channel: High



Preview Result 1-PK+
Final_Result RMS

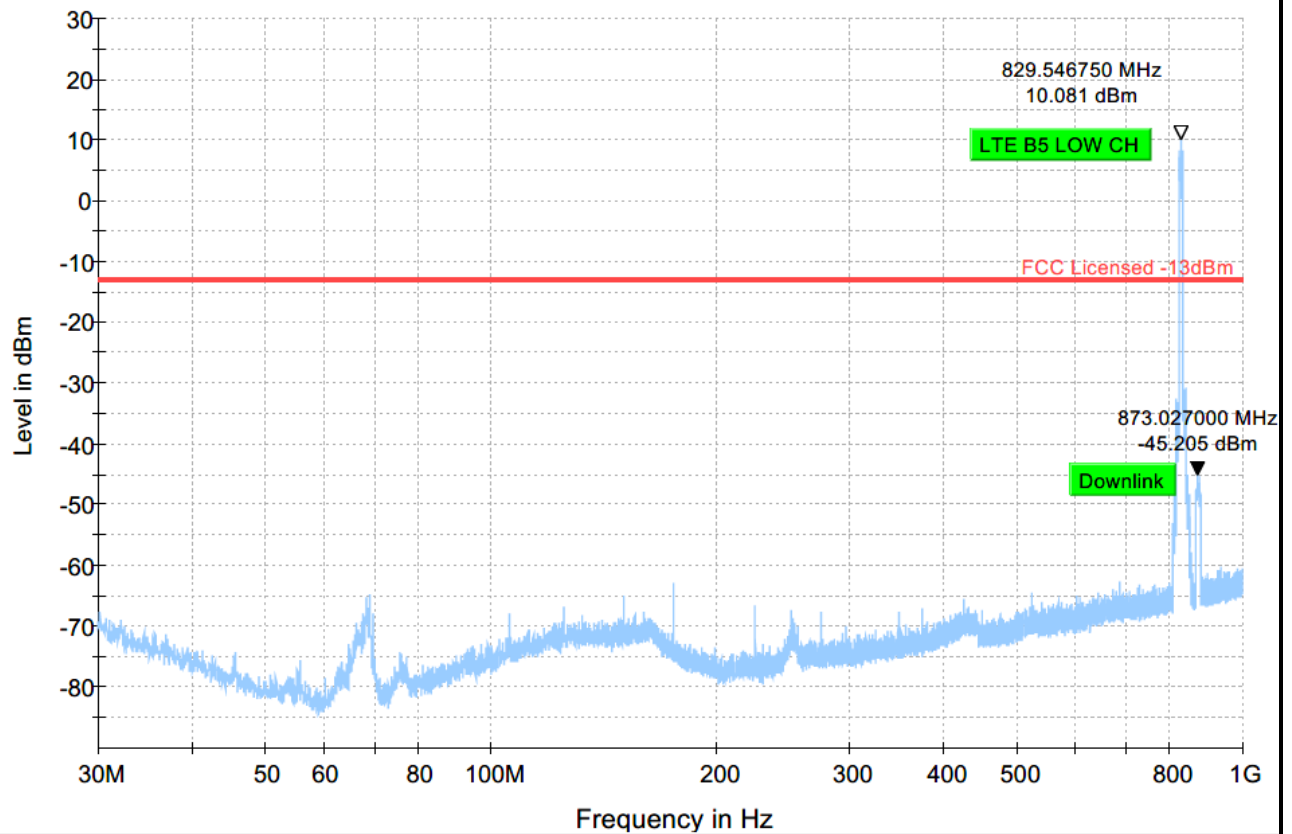
* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

LTE Band 5

Plot #22 Radiated Emissions: 30 MHz – 1GHz

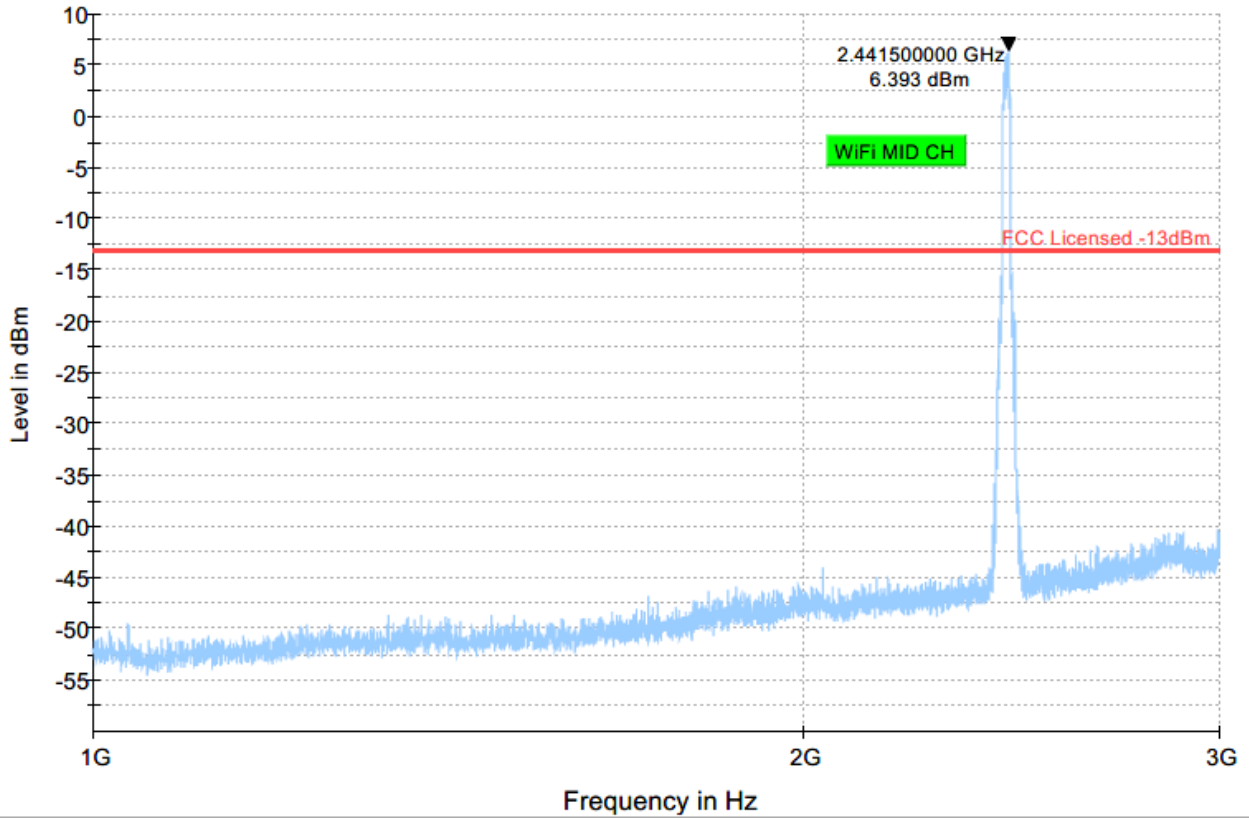
Channel: Low



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

Plot # 23 Radiated Emissions: 1-3 GHz

Channel: Low



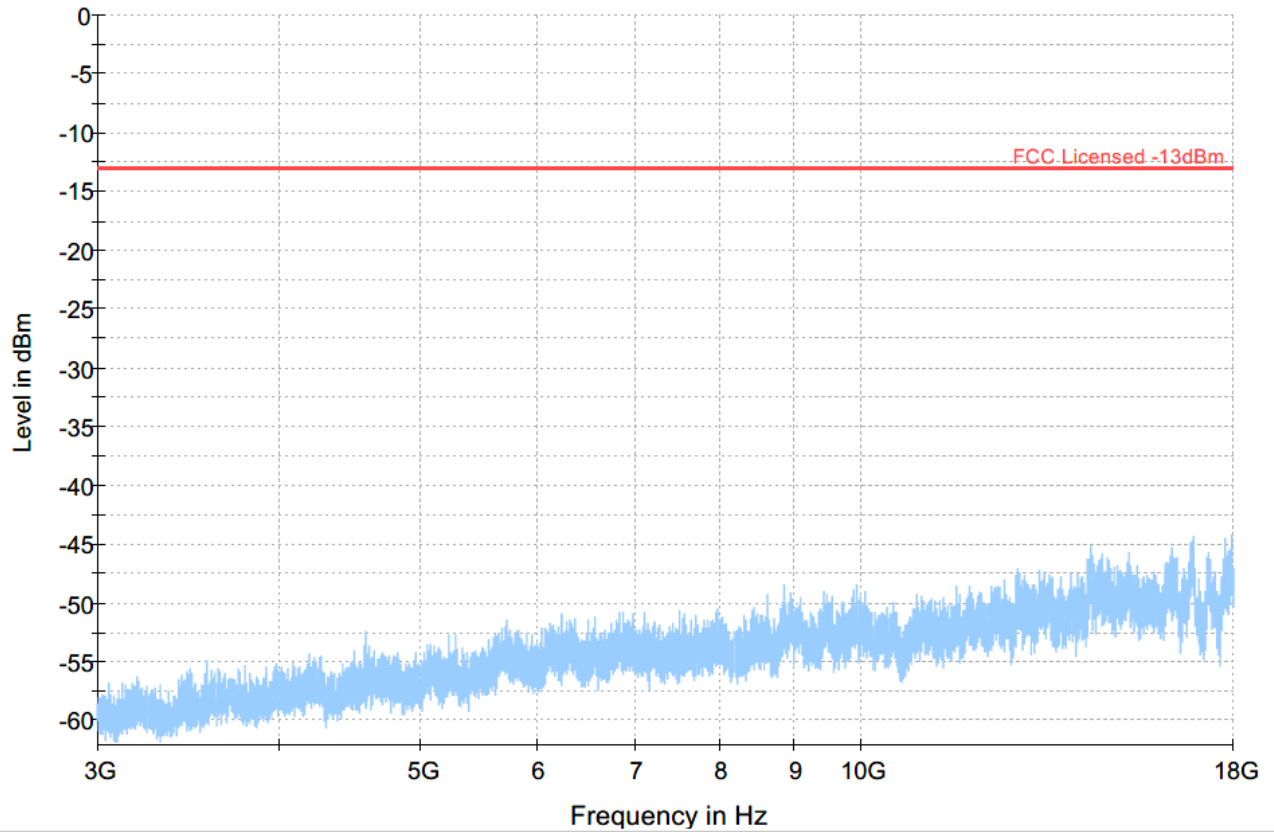
◆ Preview Result 1-PK+ Final_Result RMS

* Critical_Freqs PK+ Final_Result PK+

— FCC Licensed -13dBm

Plot # 24 Radiated Emissions: 3-18 GHz

Channel: Low



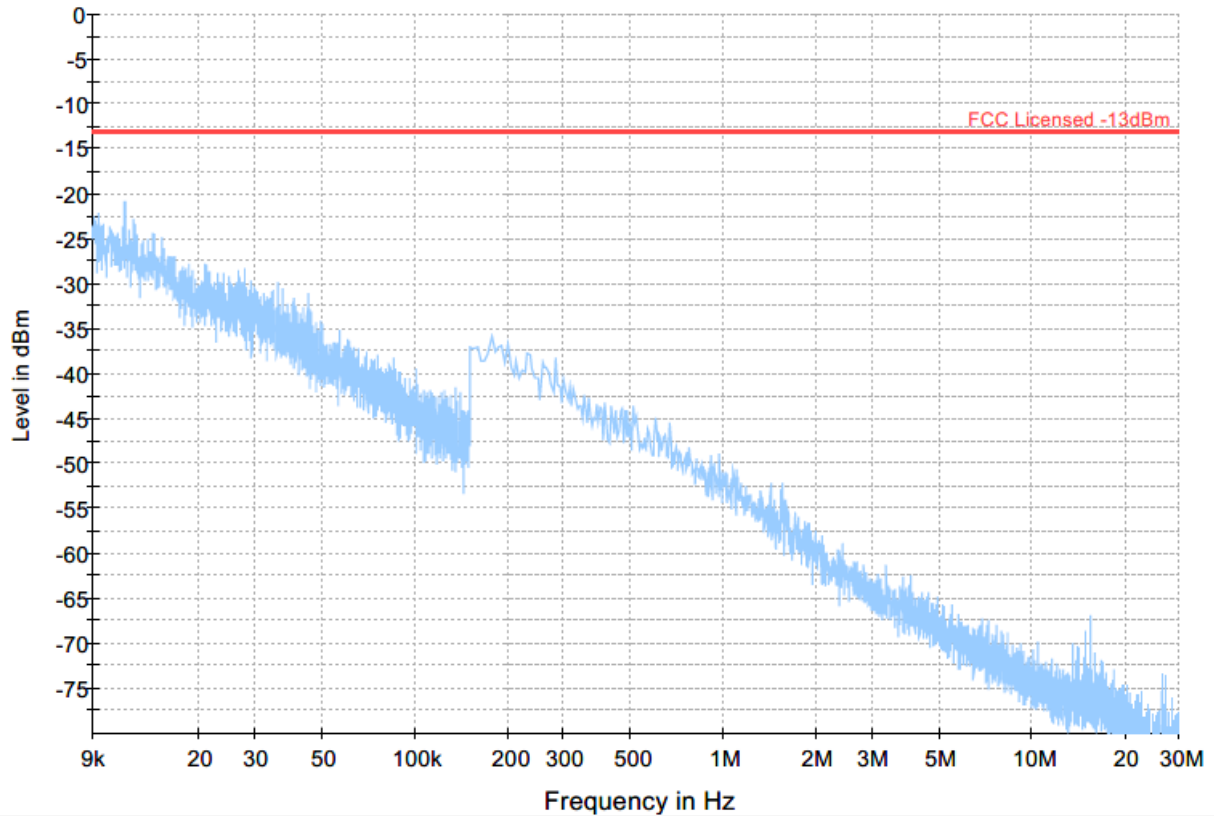
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #25 Radiated Emissions: 9 kHz – 30 MHz

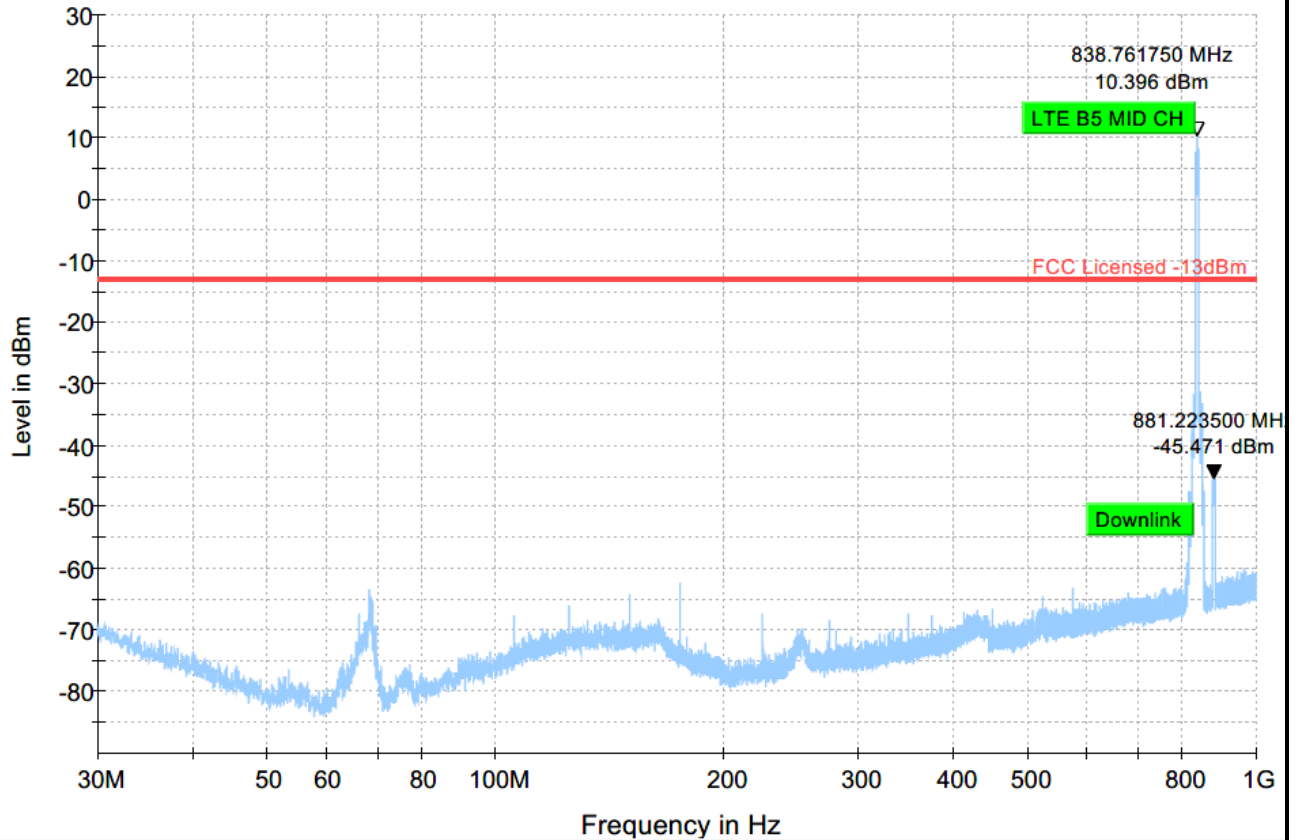
Channel: Mid



— Preview Result 1-PK+ * Critical_Freqs PK+ — FCC Licensed -13dBm ◆ Final_Result RM

Plot #26 Radiated Emissions: 30 MHz – 1 GHz

Channel: Mid



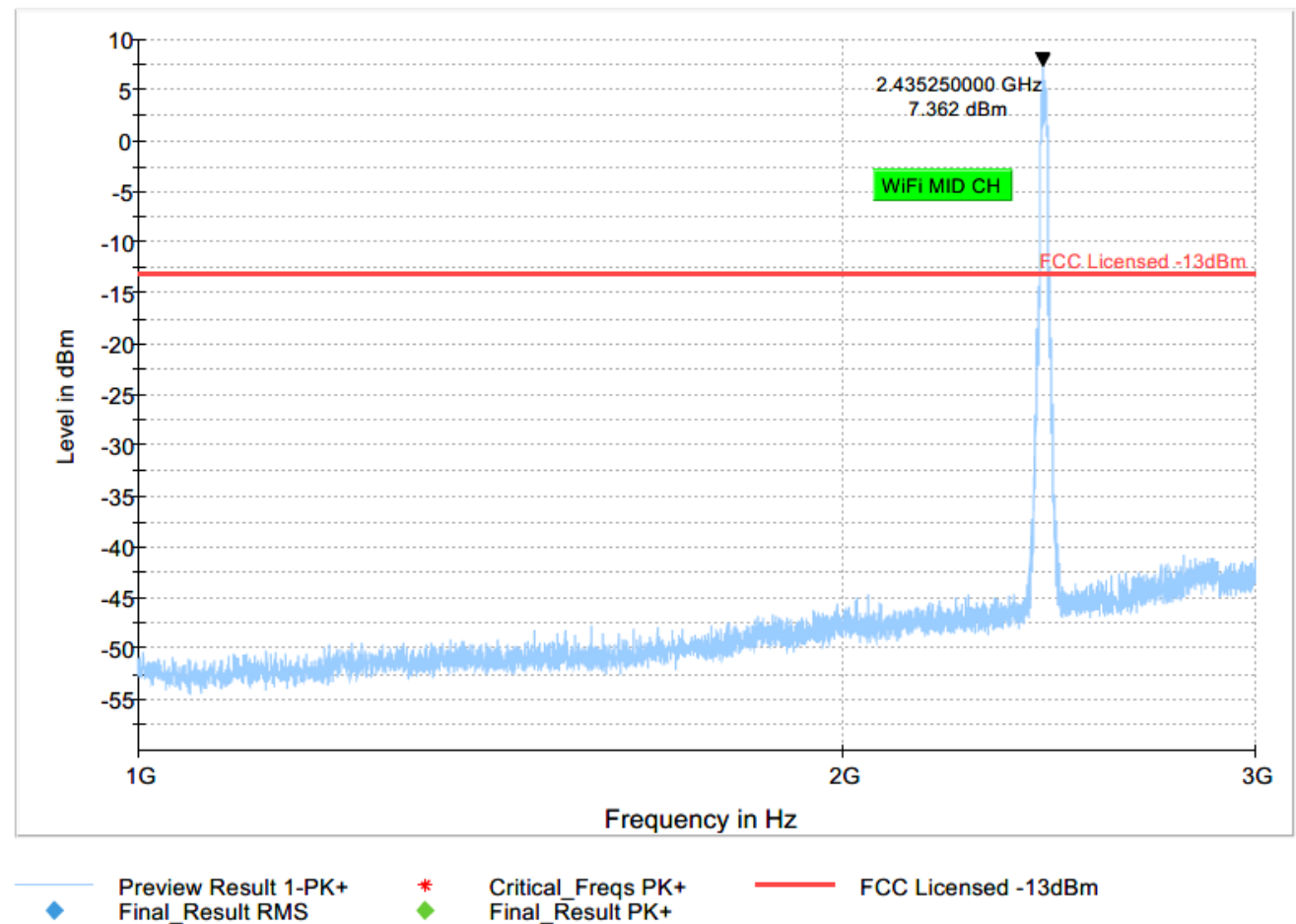
◆ Preview Result 1-PK+
◆ Final Result RMS

* Critical_Freqs PK+
◆ Final Result PK+

— FCC Licensed -13dBm

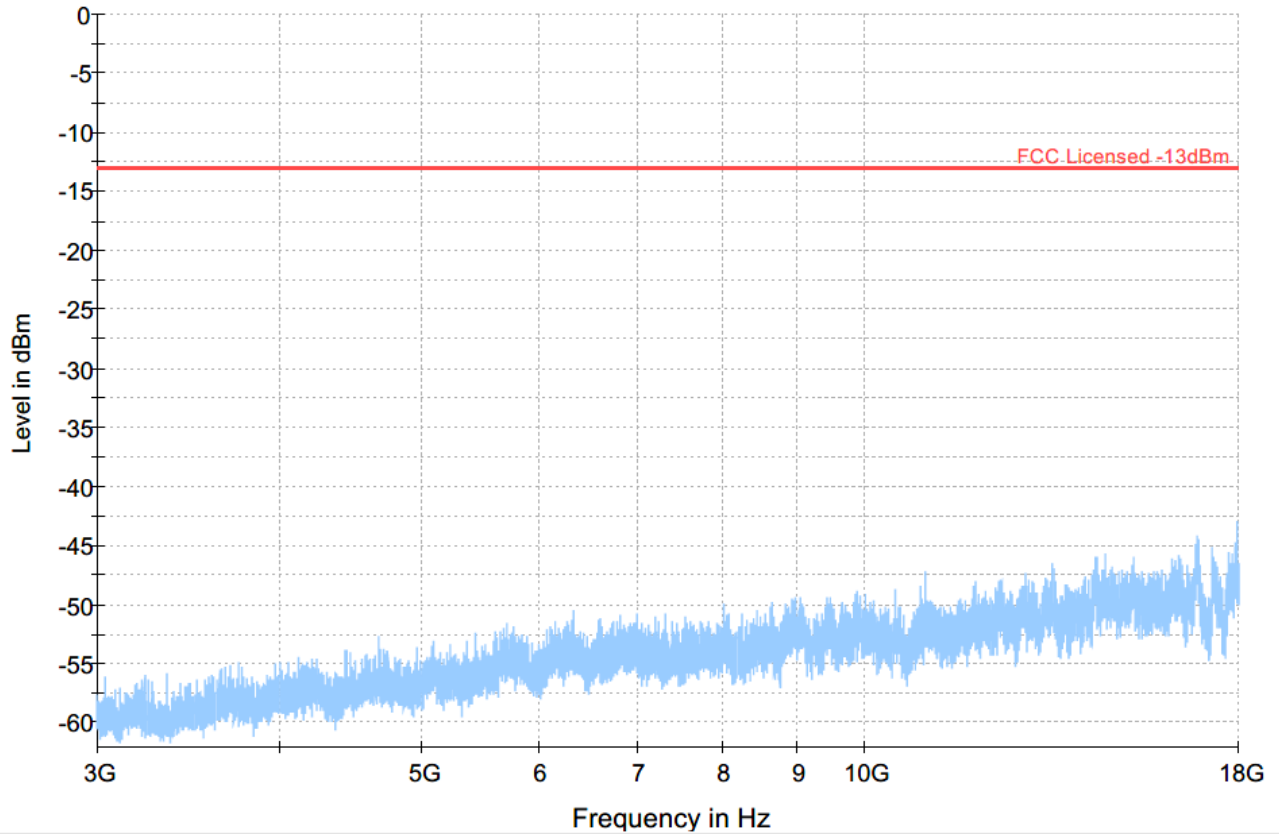
Plot #27 Radiated Emissions: 1-3 GHz

Channel: Mid



Plot #28 Radiated Emissions: 3-18 GHz

Channel: Mid



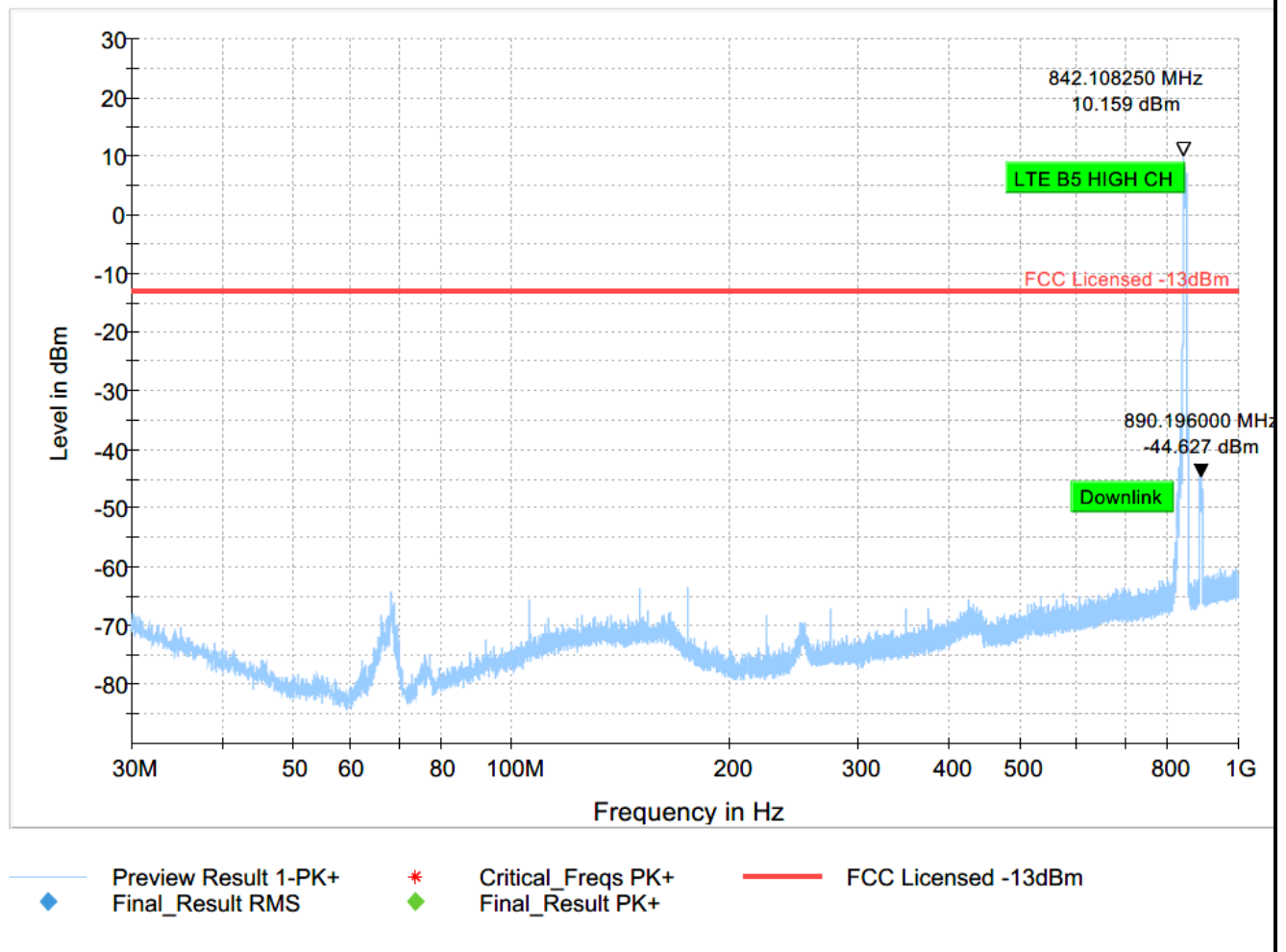
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

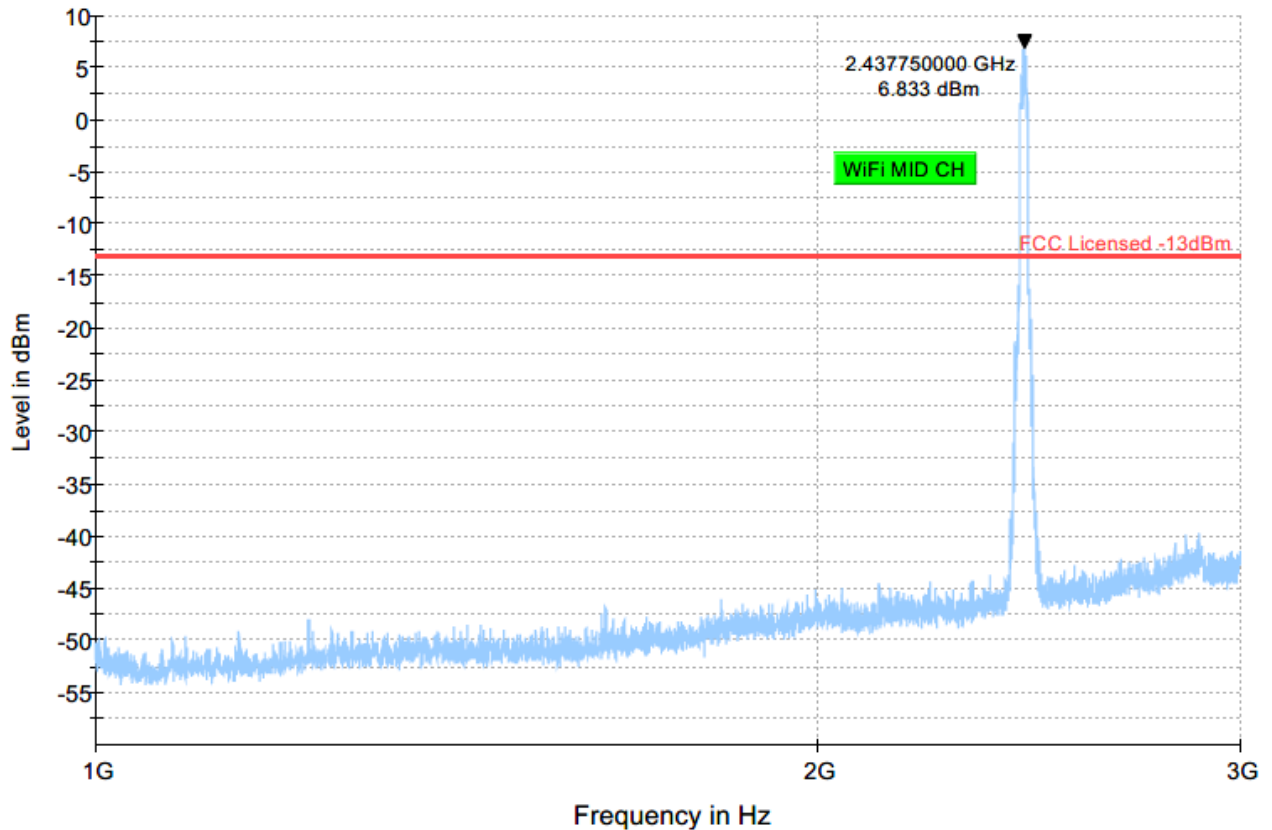
Plot #29 Radiated Emissions: 30 MHz – 1 GHz

Channel: High



Plot #30 Radiated Emissions: 1-3 GHz

Channel: High



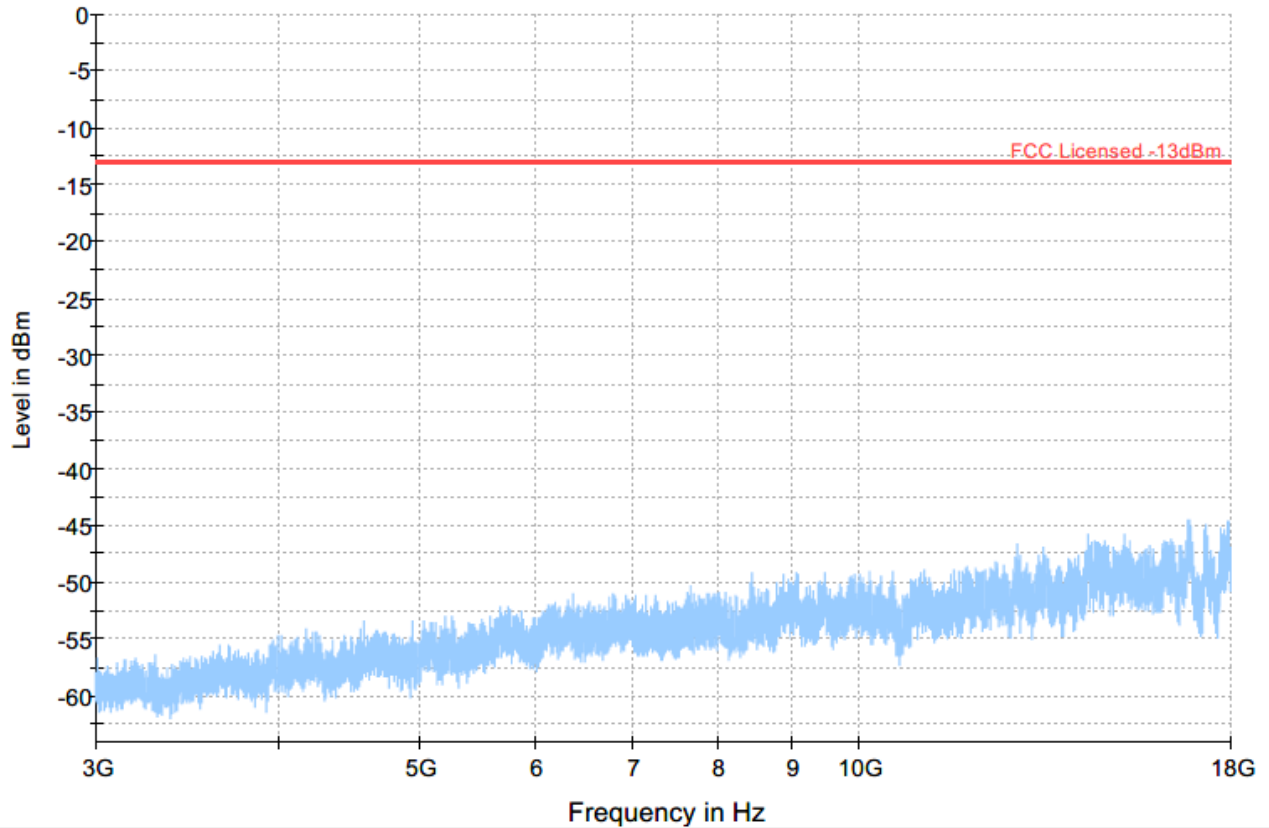
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #31 Radiated Emissions: 3-18 GHz

Channel: High



Preview Result 1-PK+
Final_Result RMS

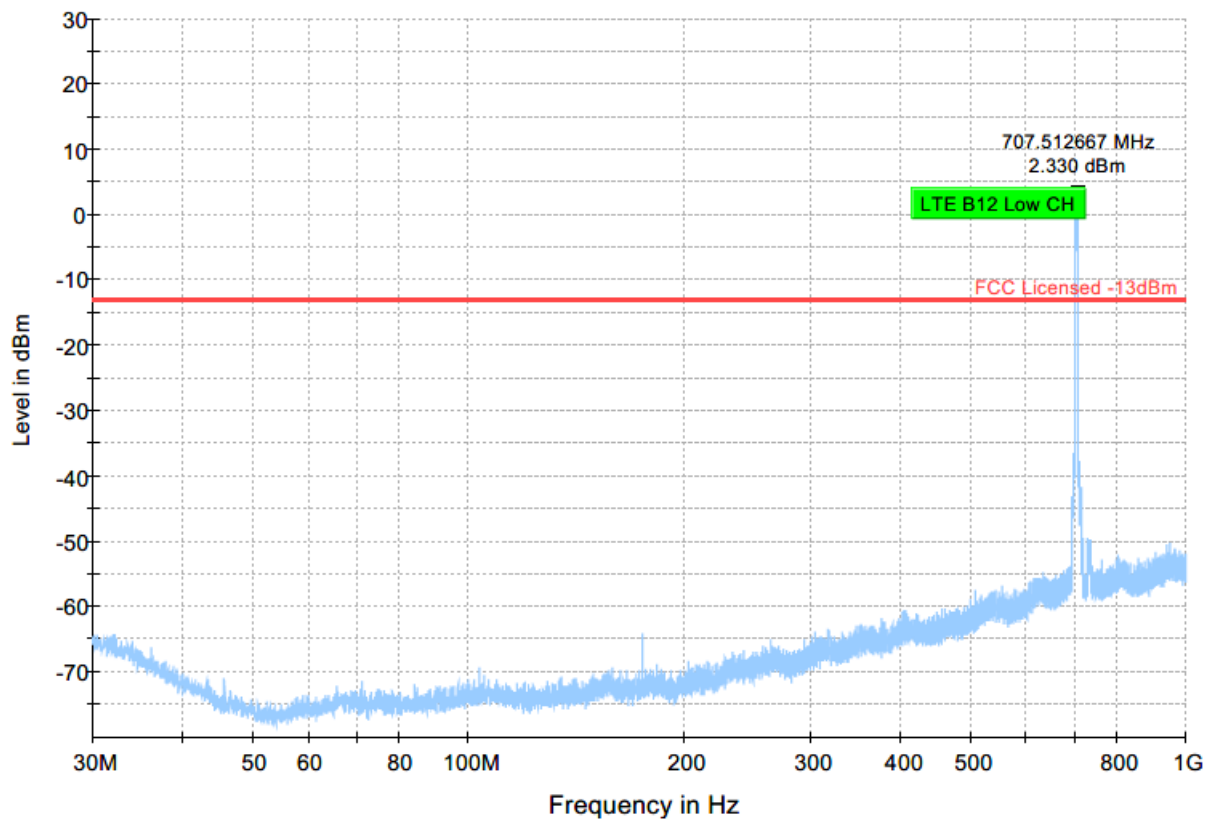
* Critical_Freqs PK+
Final_Result PK+

FCC Licensed -13dBm

LTE Band 12

Plot #32 Radiated Emissions: 30 MHz – 1GHz

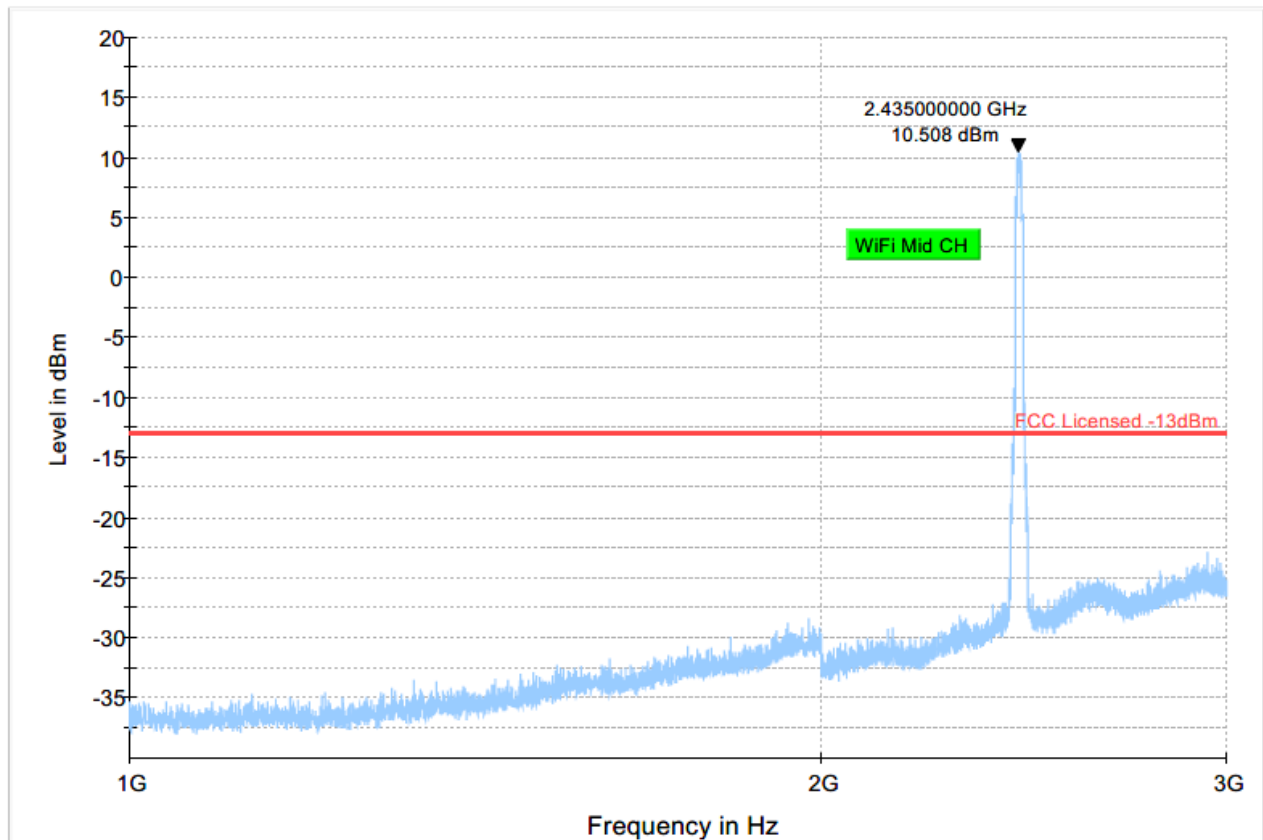
Channel: Low



— Preview Result 1-PK+ * Critical_Freqs PK+ — FCC Licensed -13dBm ◆ Final_Result RM

Plot # 33 Radiated Emissions: 1-3 GHz

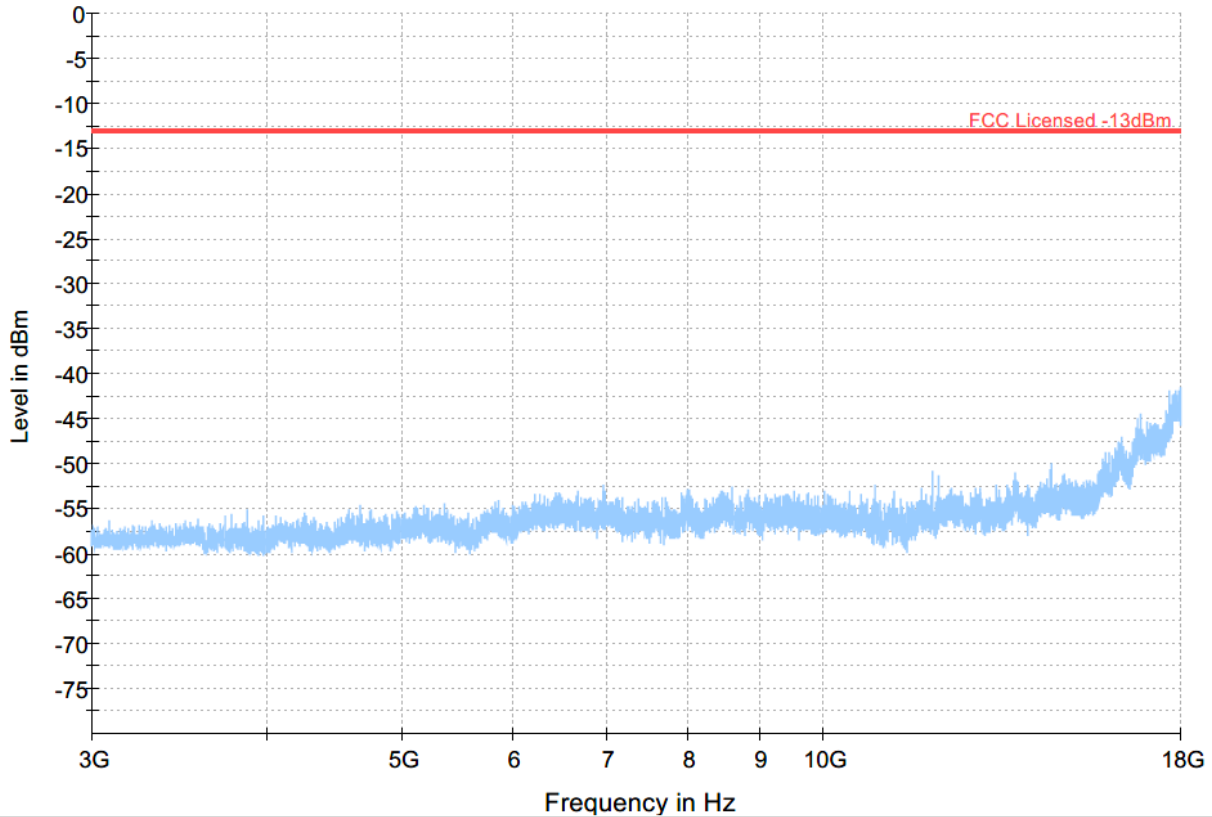
Channel: Low



Preview Result 1-PK+ * Critical_Freqs PK+ FCC Licensed -13dBm Final_Result RM

Plot # 34 Radiated Emissions: 3-18GHz

Channel: Low



— Preview Result 1-PK+

*

Critical_Freqs PK+

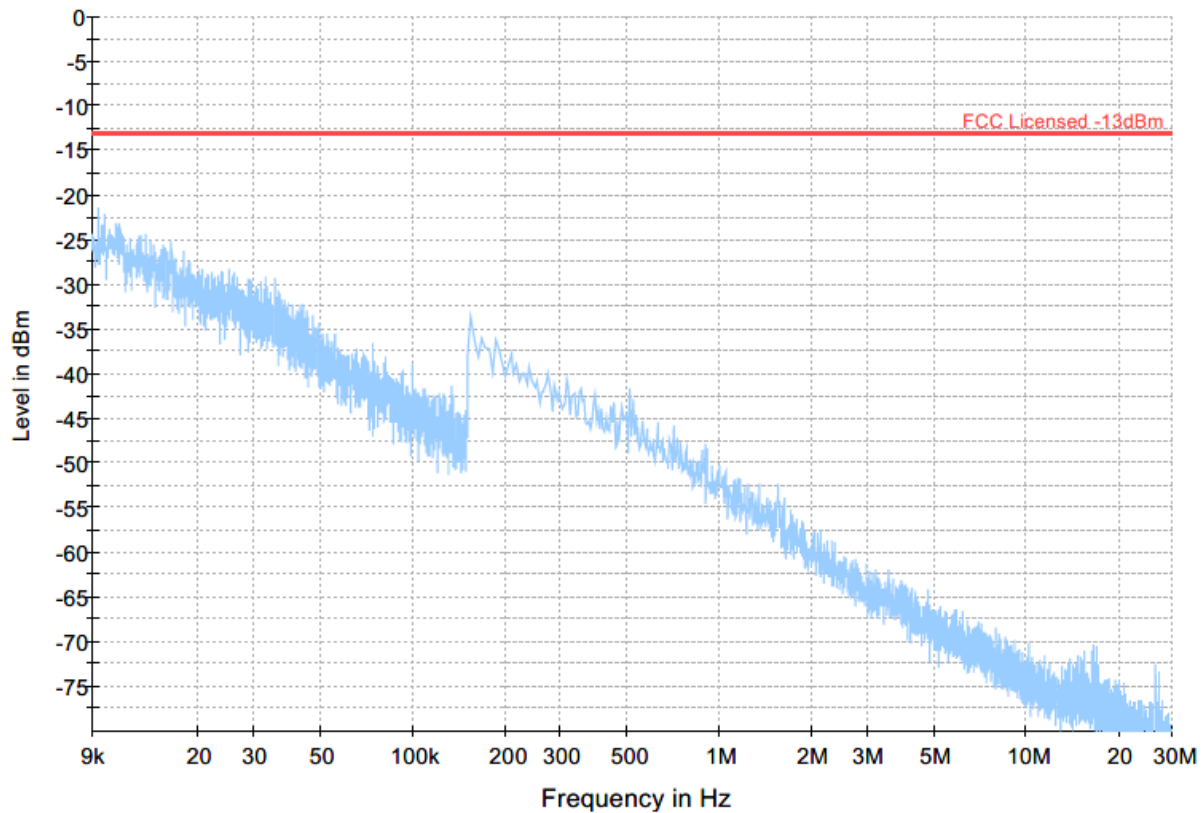
— FCC Licensed -13dBm

◆

Final_Result RM

Plot #35 Radiated Emissions: 9 kHz – 30 MHz

Channel: Mid



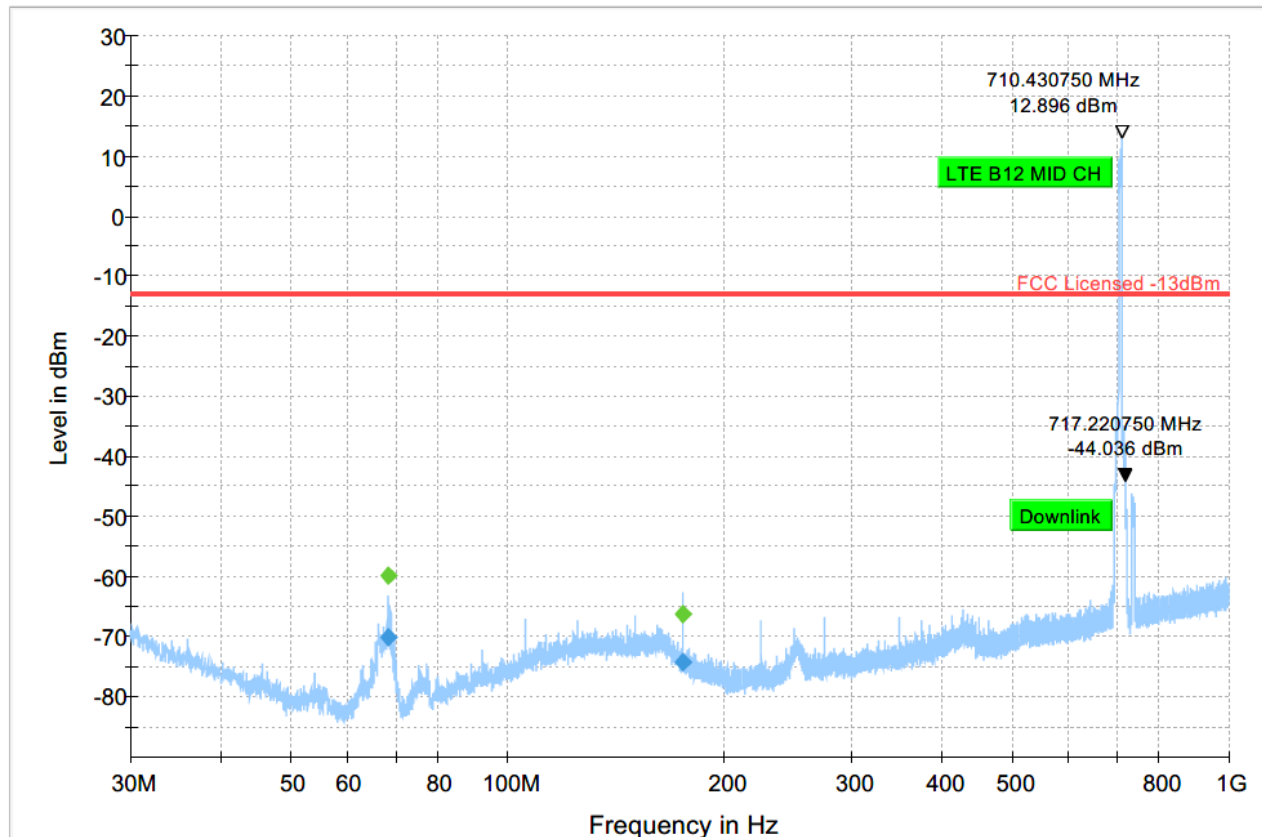
— Preview Result 1-PK+ * Critical_Freqs PK+ — FCC Licensed -13dBm ◆ Final_Result RM

Plot #36 Radiated Emissions: 30 MHz – 1 GHz

Channel: Mid

Final Result

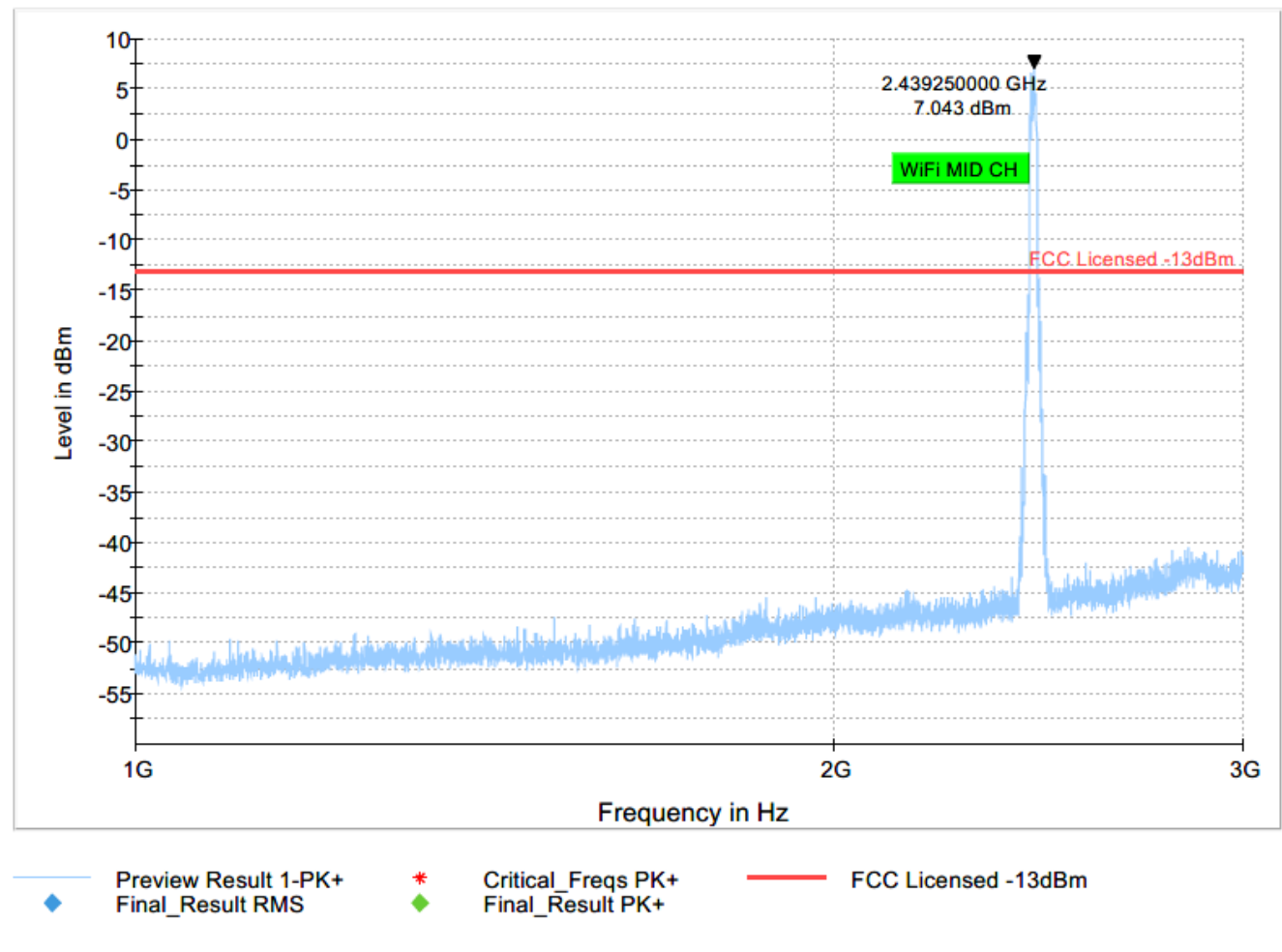
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
68.218	-70.10	---	-13.00	57.10	500.0	100.000	275.0	V	56.0	-88.1	
68.218	---	-59.89	---	---	500.0	100.000	275.0	V	56.0	-88.1	
174.967	-74.26	---	-13.00	61.26	500.0	100.000	233.0	H	126.0	-80.1	
174.967	---	-66.27	---	---	500.0	100.000	233.0	H	126.0	-80.1	



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

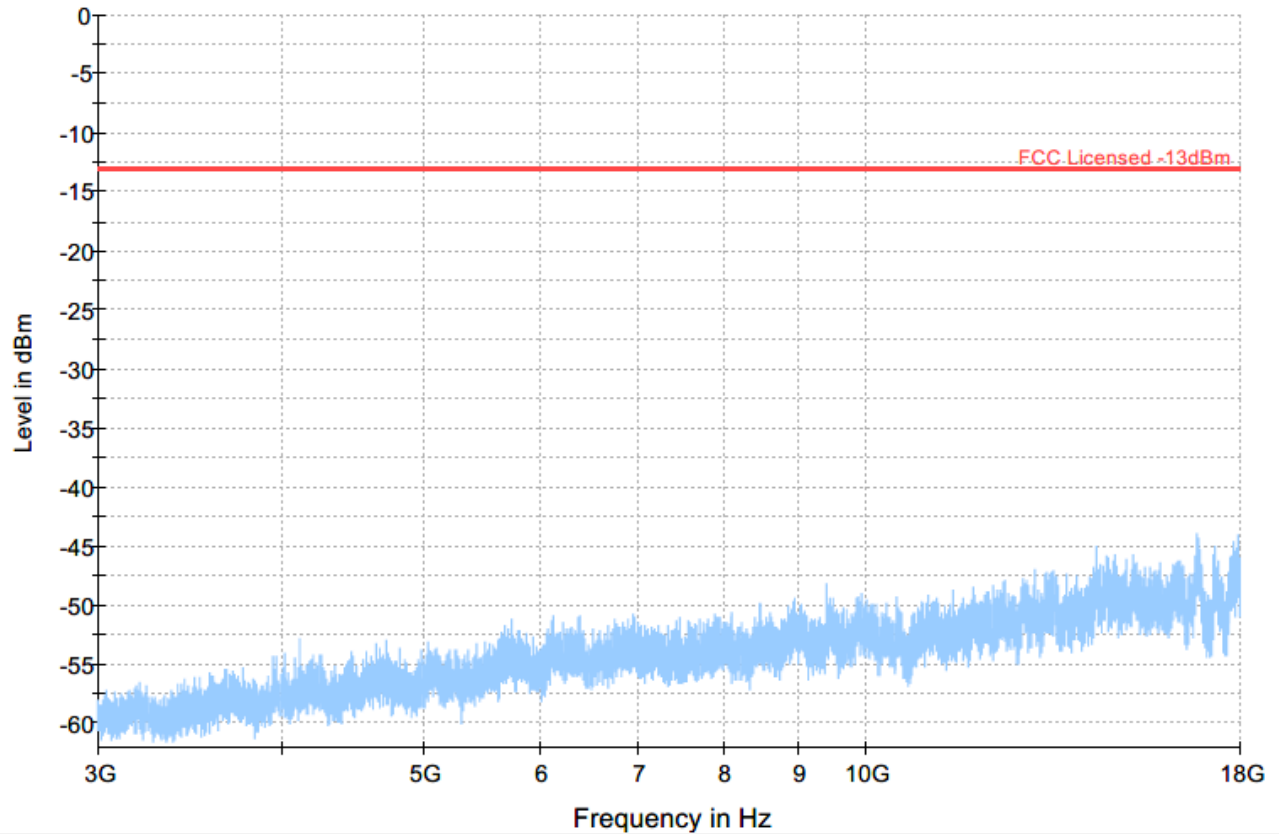
Plot #37 Radiated Emissions: 1-3 GHz

Channel: Mid



Plot #38 Radiated Emissions: 3-18 GHz

Channel: Mid



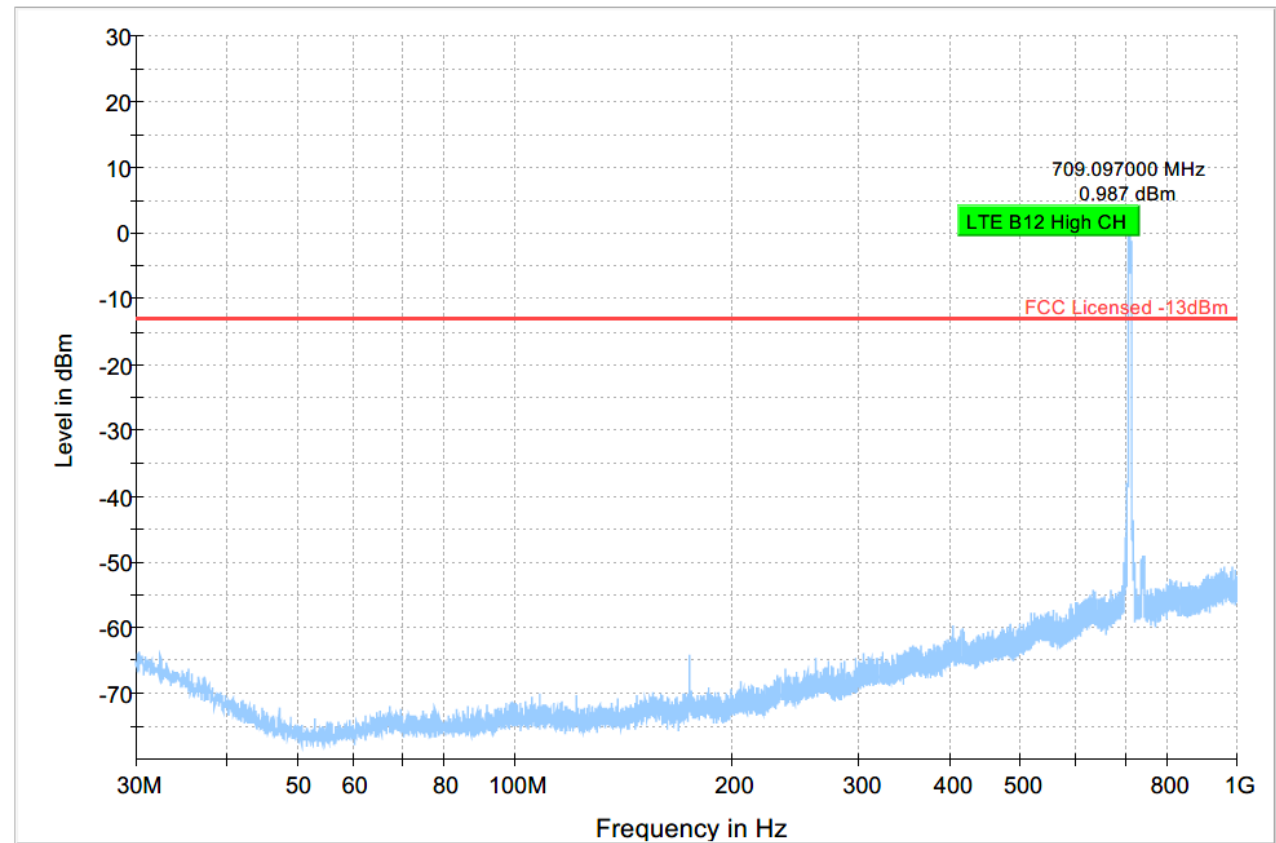
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #39 Radiated Emissions: 30 MHz – 1 GHz

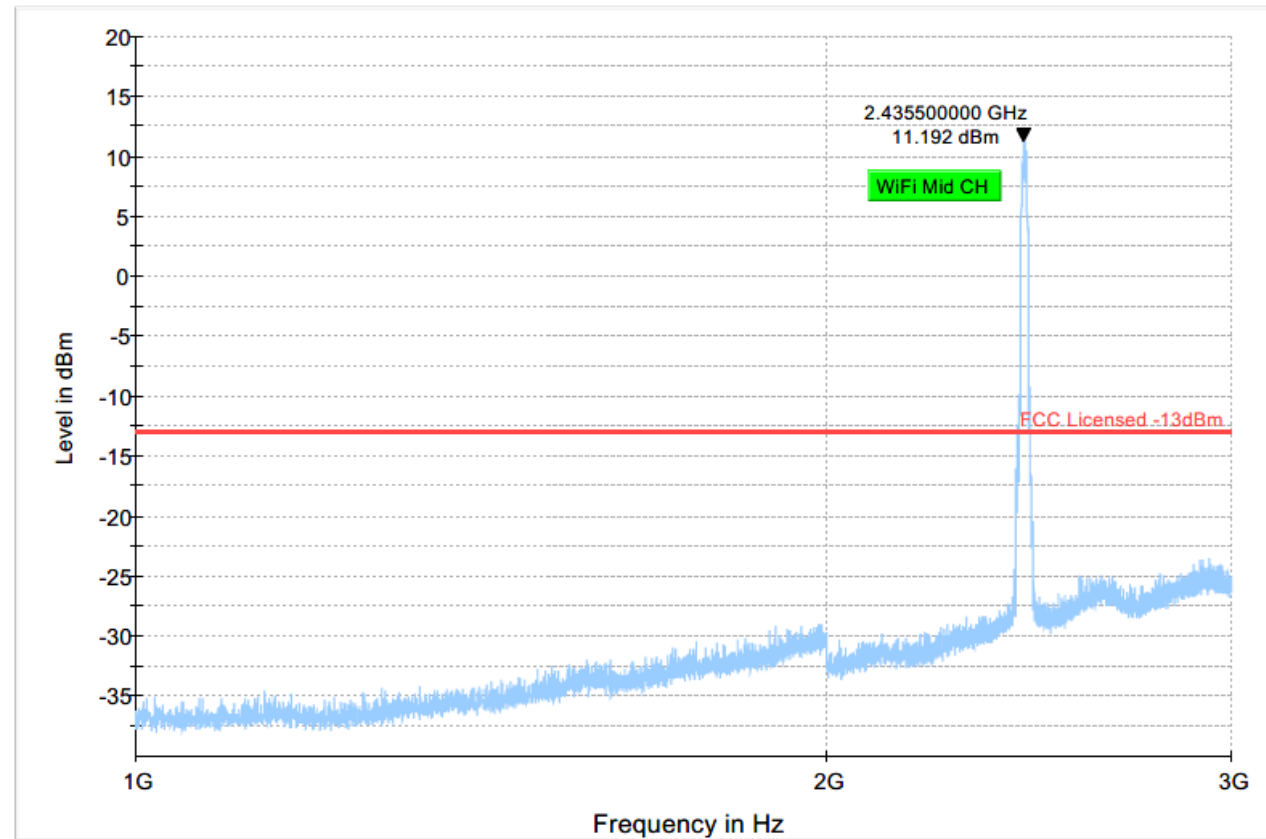
Channel: High



Preview Result 1-PK+ * Critical_Freqs PK+ FCC Licensed -13dBm Final_Result RM

Plot #40 Radiated Emissions: 1-3 GHz

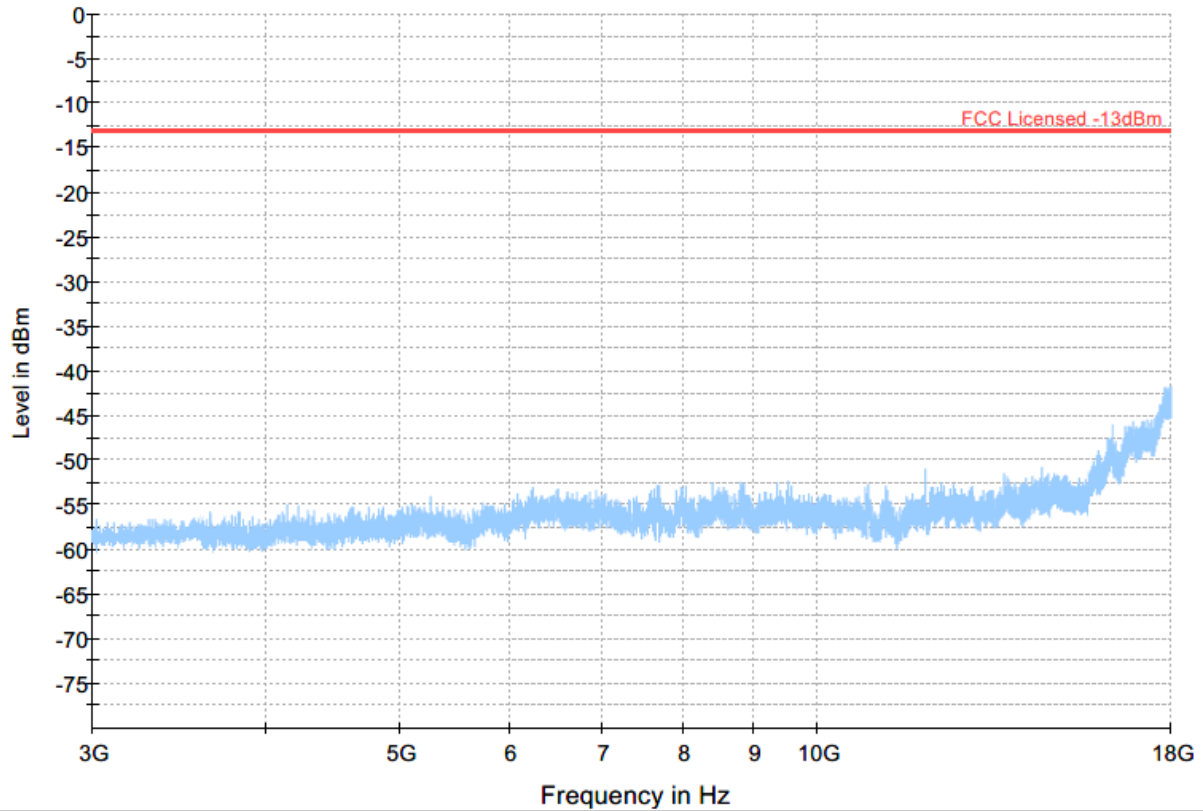
Channel: High



Preview Result 1-PK+ * Critical_Freqs PK+ FCC Licensed -13dBm Final_Result RM

Plot #41 Radiated Emissions: 3-18 GHz

Channel: High

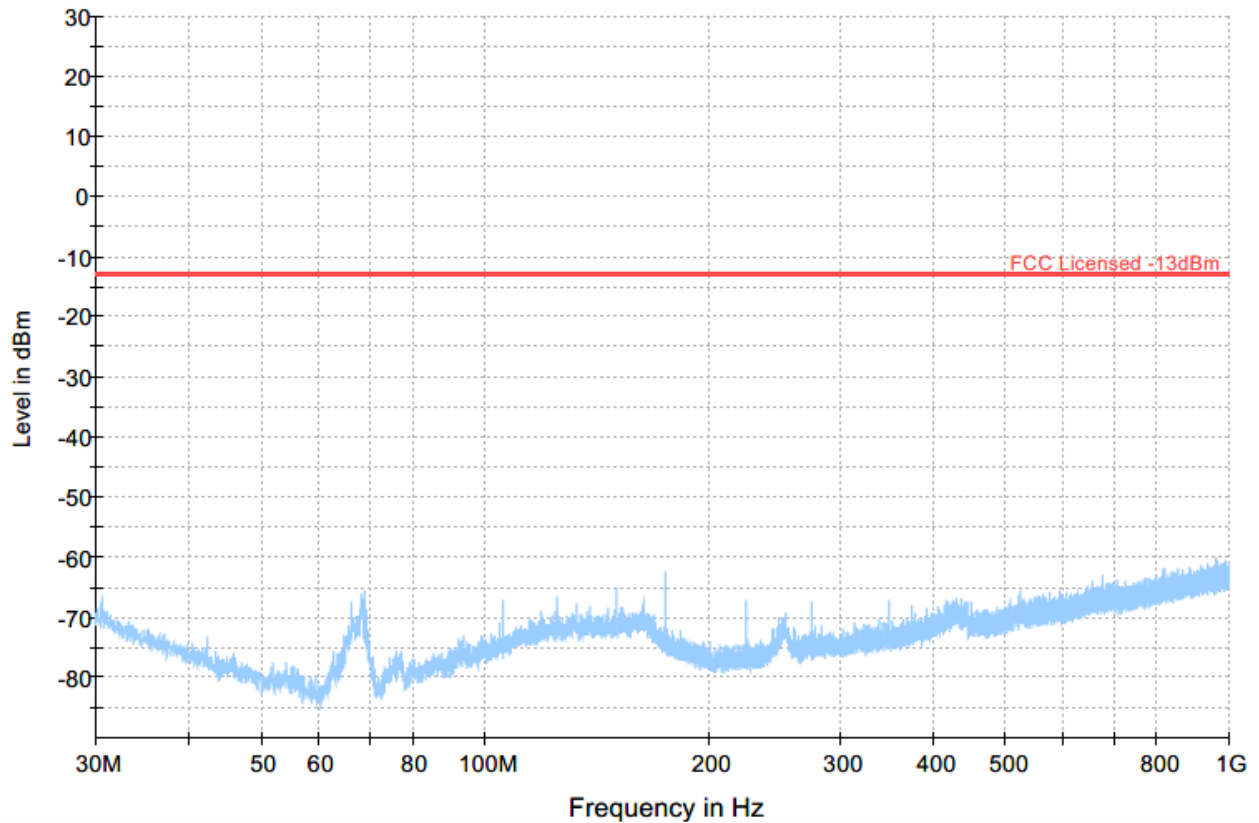


— Preview Result 1-PK+ * Critical_Freqs PK+ — FCC Licensed -13dBm ◆ Final_Result RM

UMTS Band II

Plot #42 Radiated Emissions: 30 MHz – 1GHz

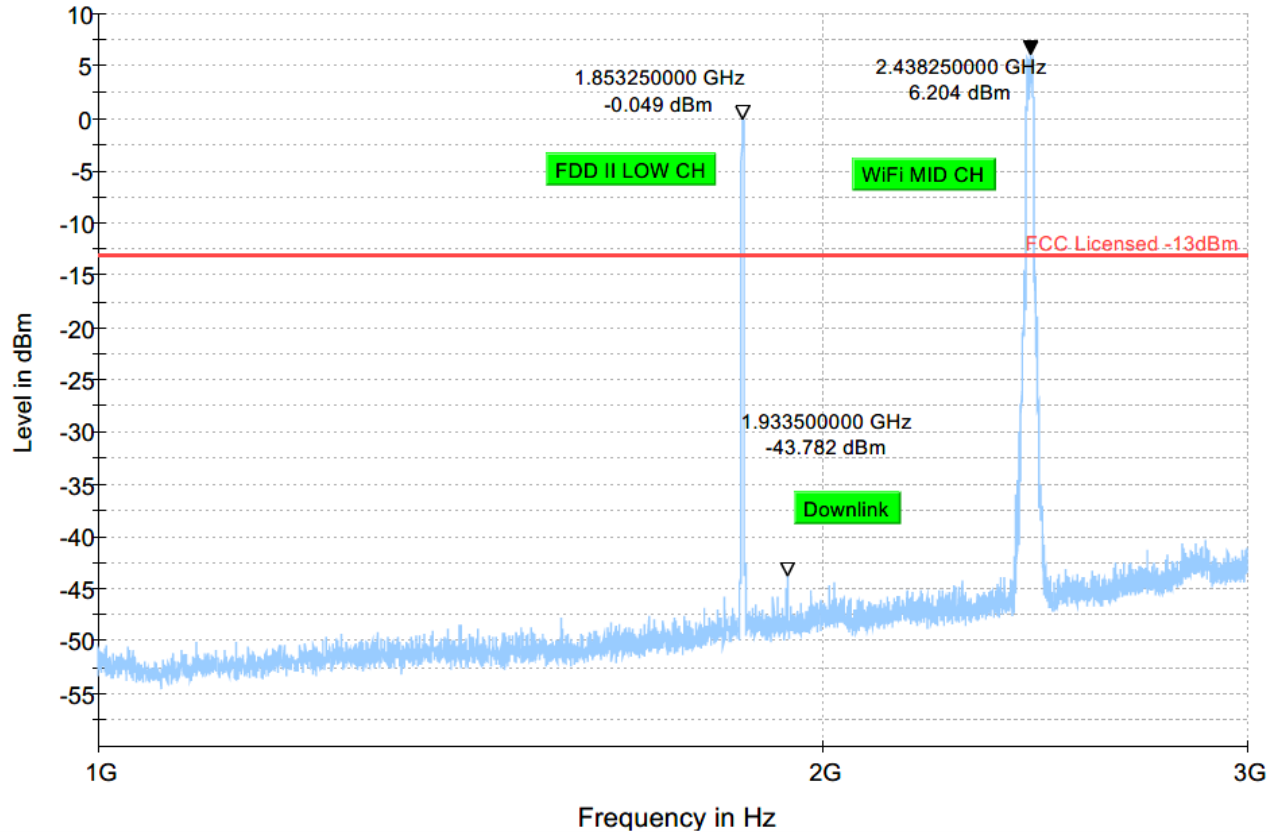
Channel: Low



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

Plot #43 Radiated Emissions: 1-3 GHz

Channel: Low



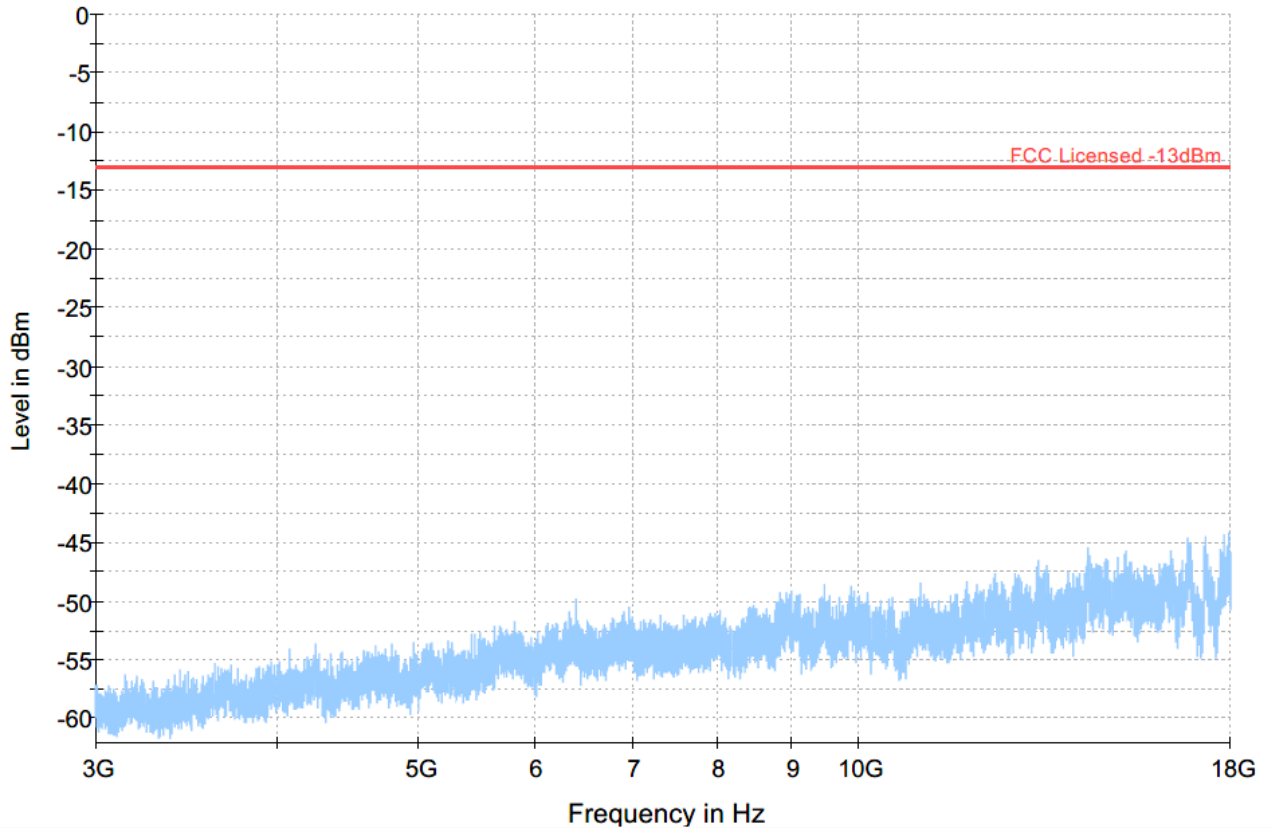
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #44 Radiated Emissions: 3-18 GHz

Channel: Low



Preview Result 1-PK+
Final_Result RMS

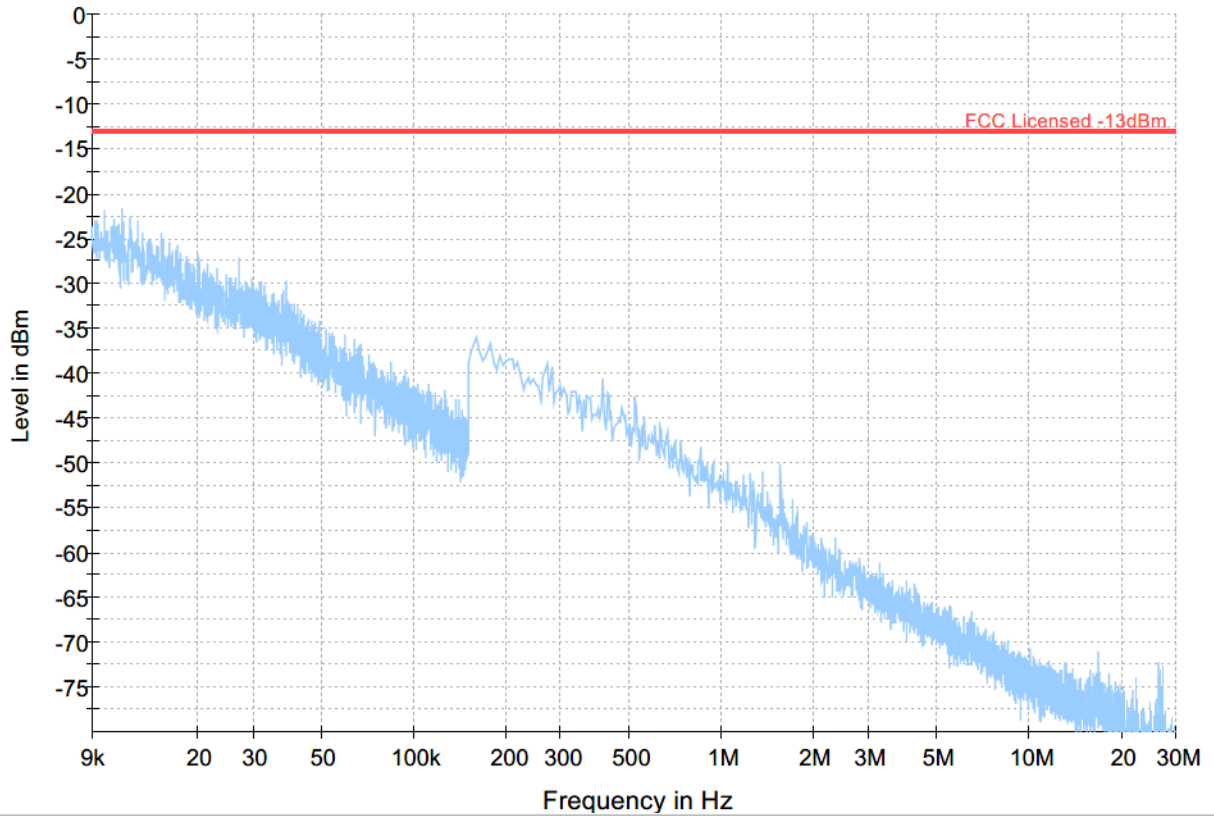


Critical_Freqs PK+
Final_Result PK+

FCC Licensed -13dBm

Plot #45 Radiated Emissions: 9 kHz – 30 MHz

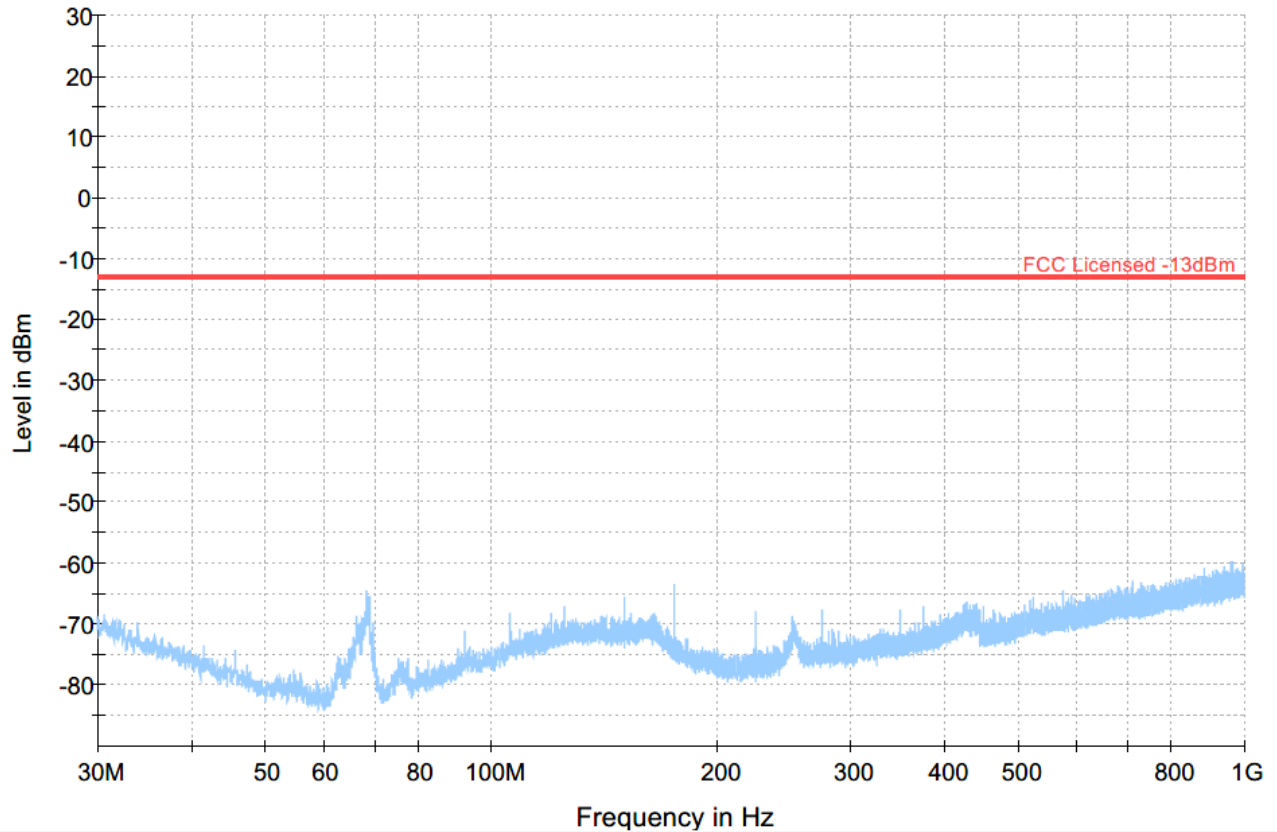
Channel: Mid



— Preview Result 1-PK+ * Critical_Freqs PK+ — FCC Licensed -13dBm ◆ Final_Result RM

Plot #46 Radiated Emissions: 30 MHz – 1 GHz

Channel: Mid



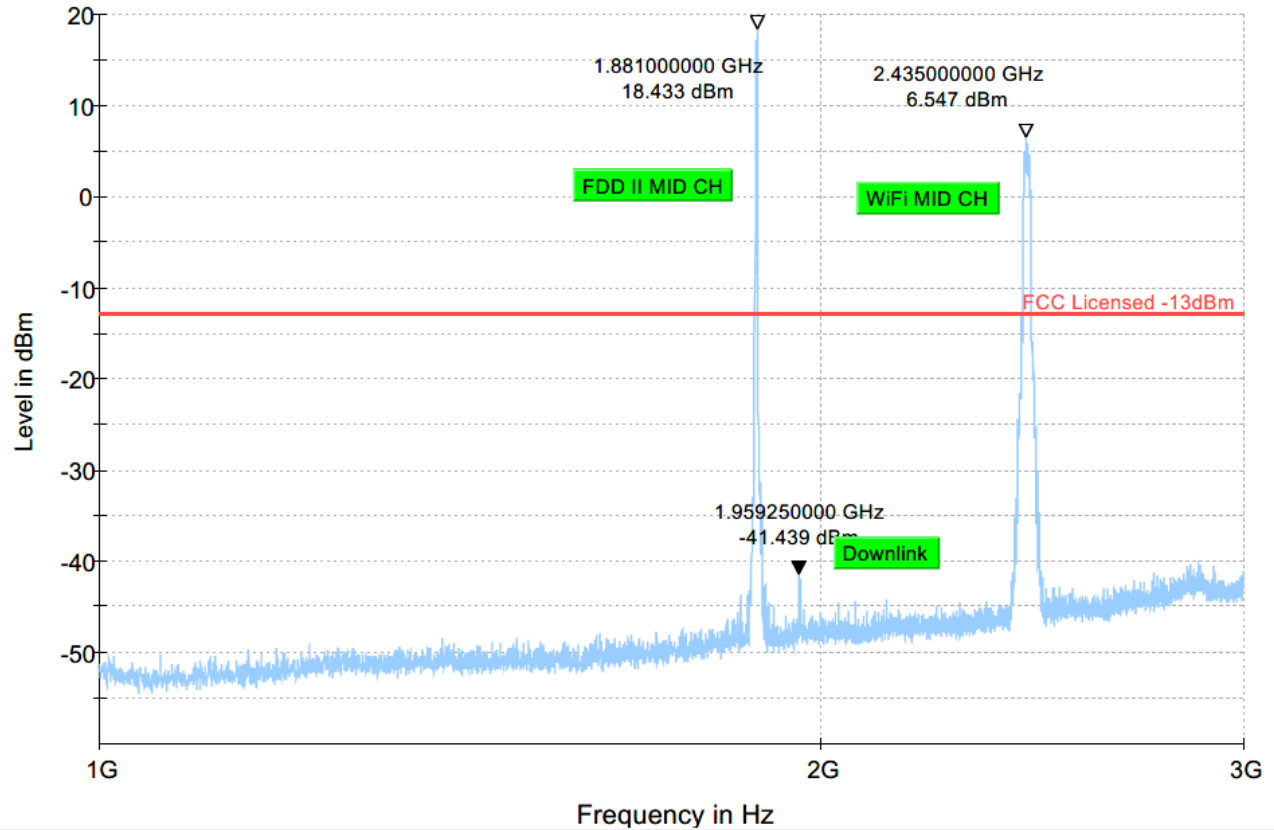
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #47 Radiated Emissions: 1-3 GHz

Channel: Mid



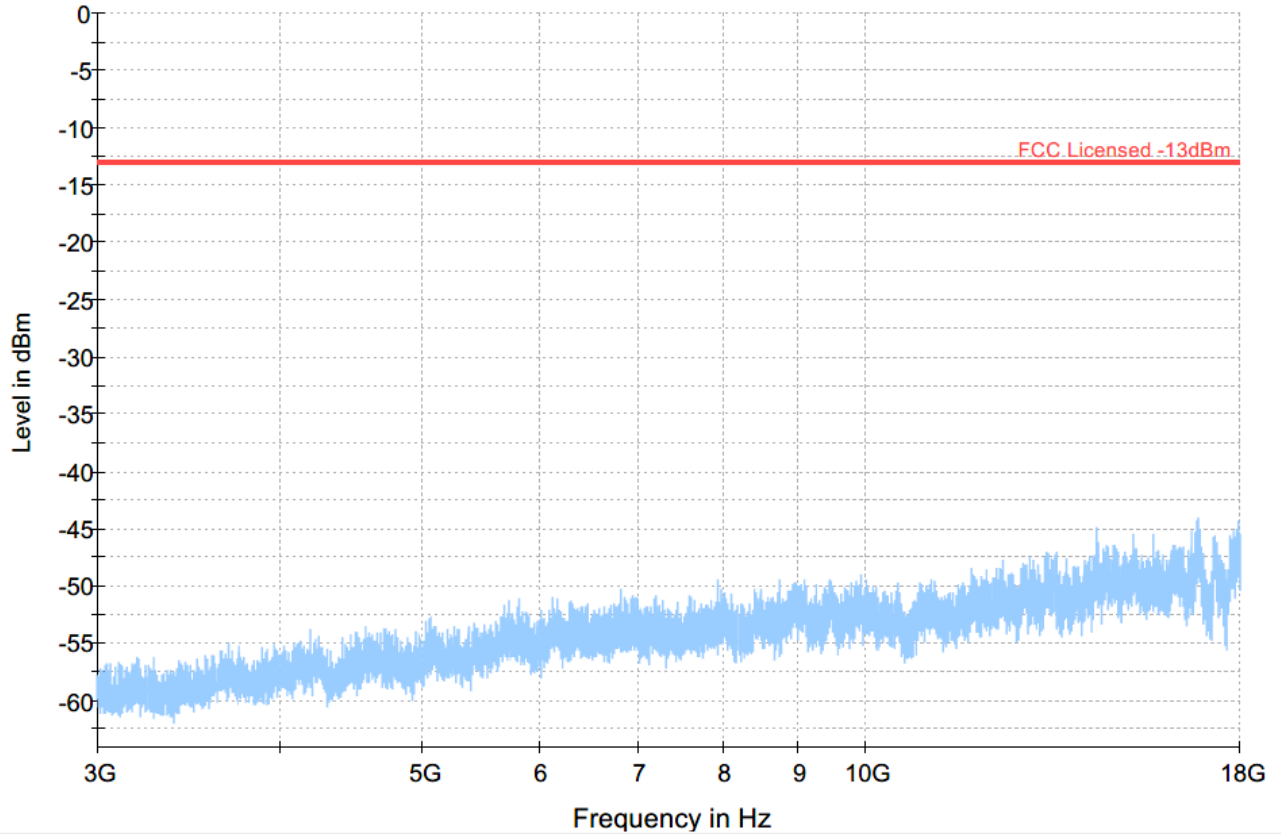
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #48 Radiated Emissions: 3-18 GHz

Channel: Mid



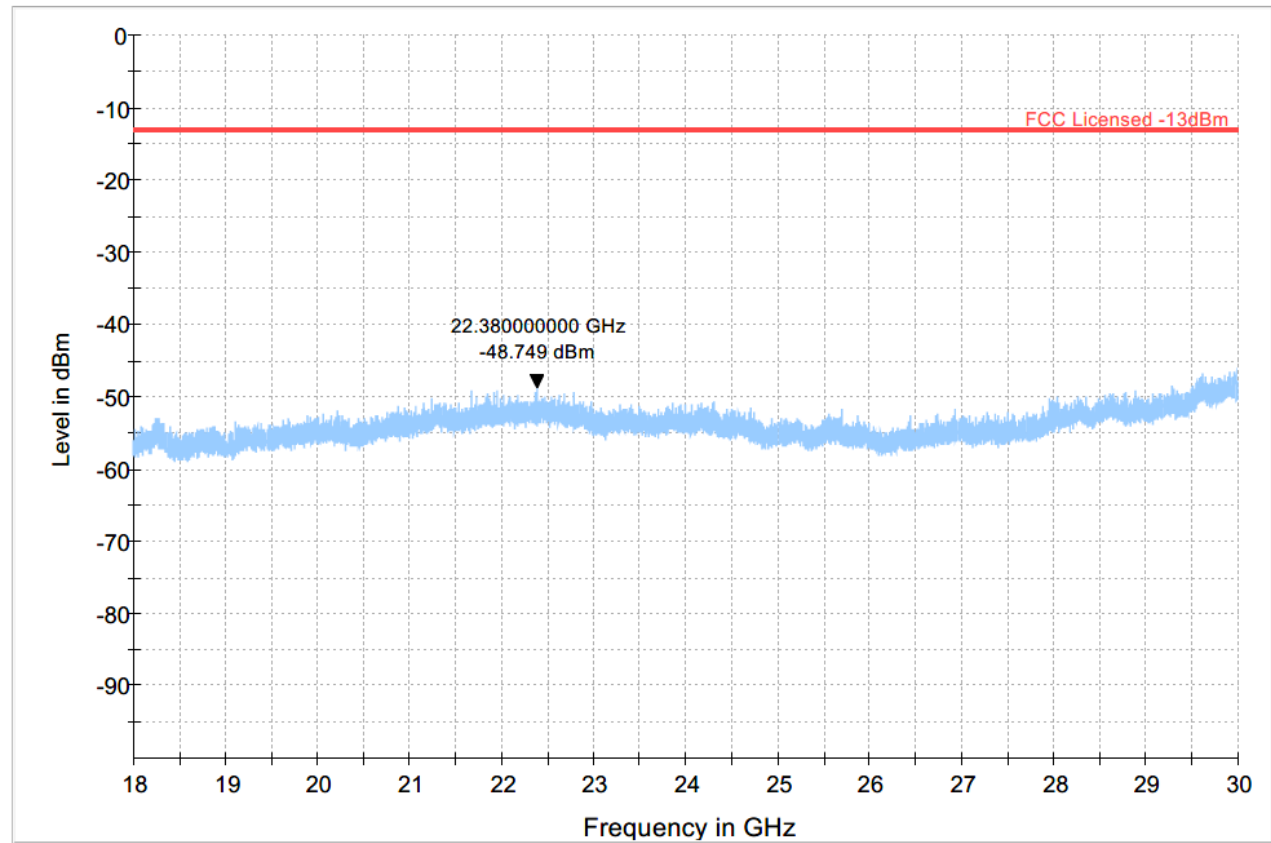
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
Final_Result PK+

FCC Licensed -13dBm

Plot #49 Radiated Emissions: 18-30 GHz

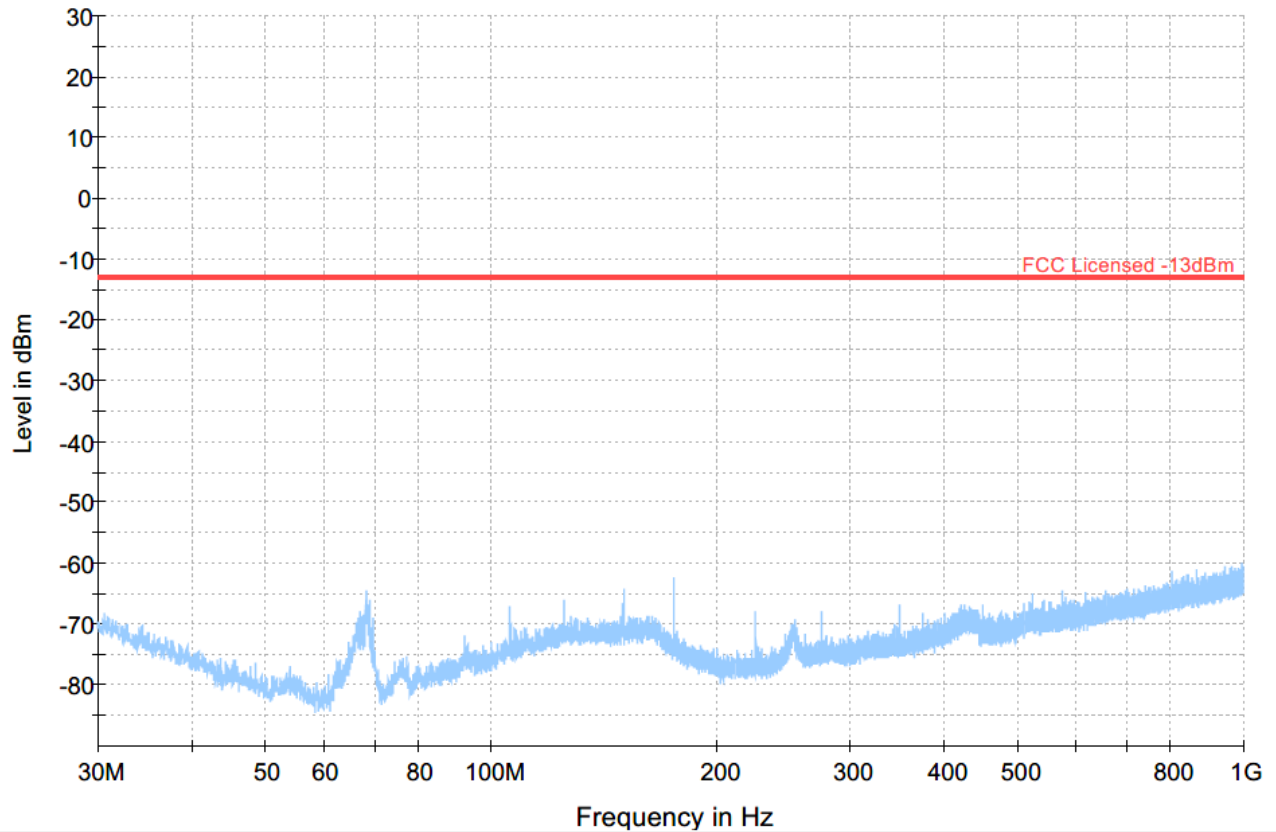
Channel: Mid



Preview Result 1-PK+ * Critical_Freqs PK+ FCC Licensed -13dBm Final_Result RN

Plot #50 Radiated Emissions: 30 MHz – 1 GHz

Channel: High



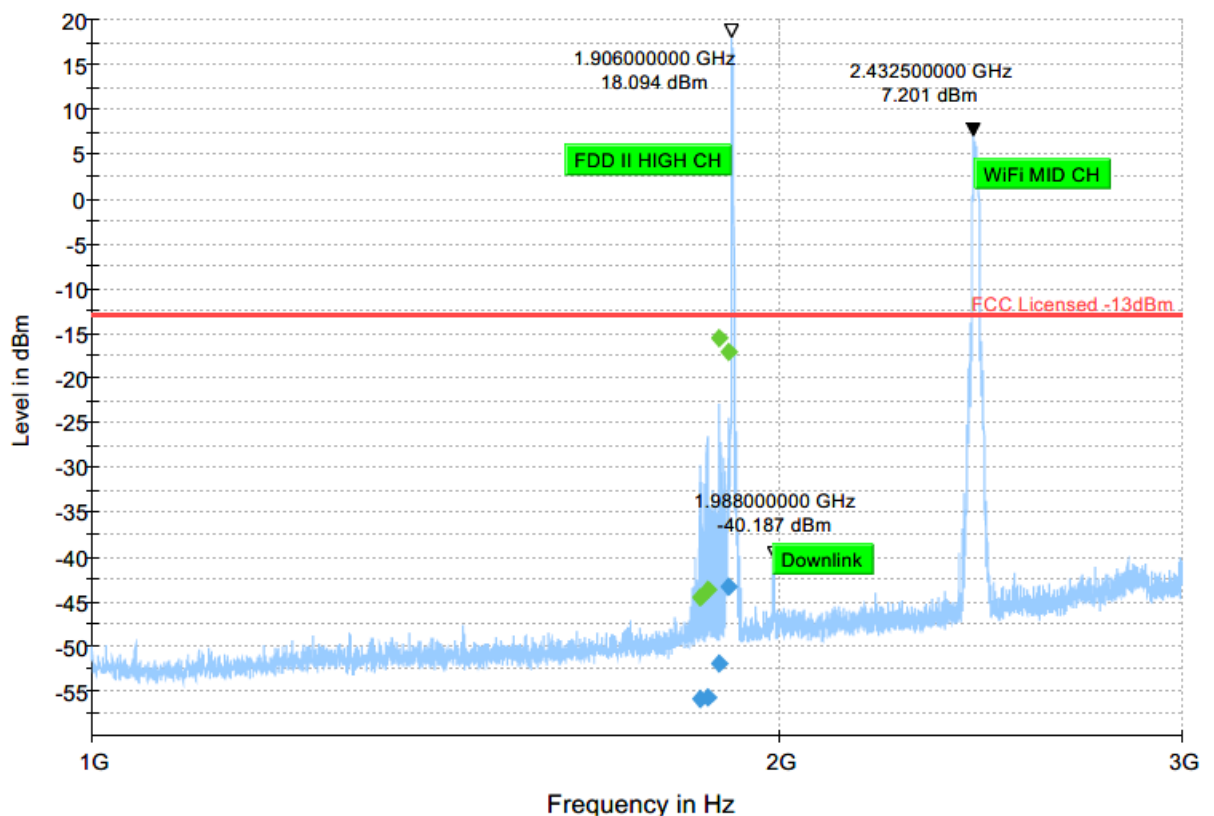
Preview Result 1-PK+ Final_Result RMS Critical_Freqs PK+ Final_Result PK+ FCC Licensed -13dBm

Plot #51 Radiated Emissions: 1-3 GHz

Channel: High

Final Result

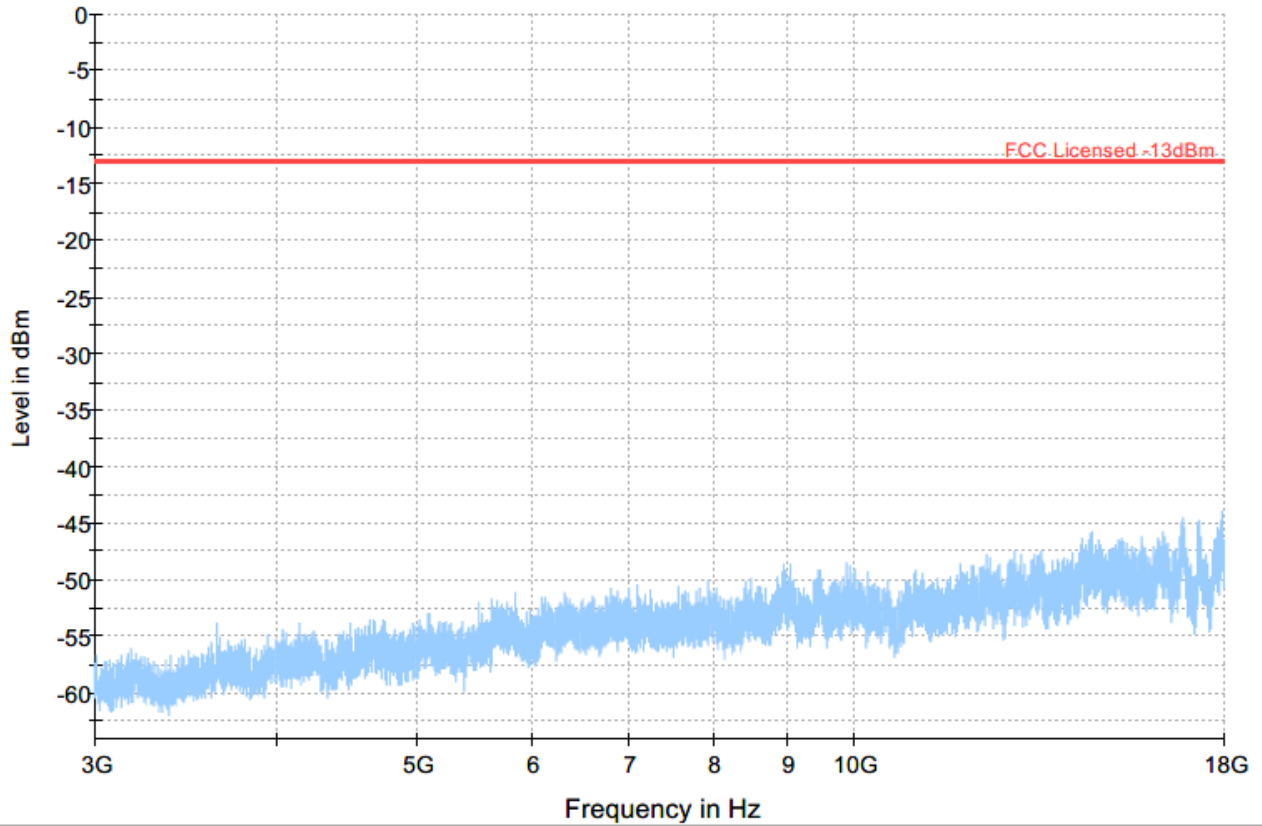
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
1844.750	---	-44.60	---	---	500.0	1000.000	141.0	H	95.0	-64.3	
1844.750	-55.85	---	-13.00	42.85	500.0	1000.000	141.0	H	95.0	-64.3	
1859.250	---	-43.65	---	---	500.0	1000.000	325.0	H	132.0	-64.2	
1859.250	-55.65	---	-13.00	42.65	500.0	1000.000	325.0	H	132.0	-64.2	
1882.250	-51.93	---	-13.00	38.93	500.0	1000.000	184.0	H	151.0	-64.2	
1882.250	---	-15.54	---	---	500.0	1000.000	184.0	H	151.0	-64.2	
1898.750	-43.41	---	-13.00	30.41	500.0	1000.000	304.0	H	133.0	-64.2	
1898.750	---	-17.09	---	---	500.0	1000.000	304.0	H	133.0	-64.2	



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

Plot #52 Radiated Emissions: 3-18 GHz

Channel: High

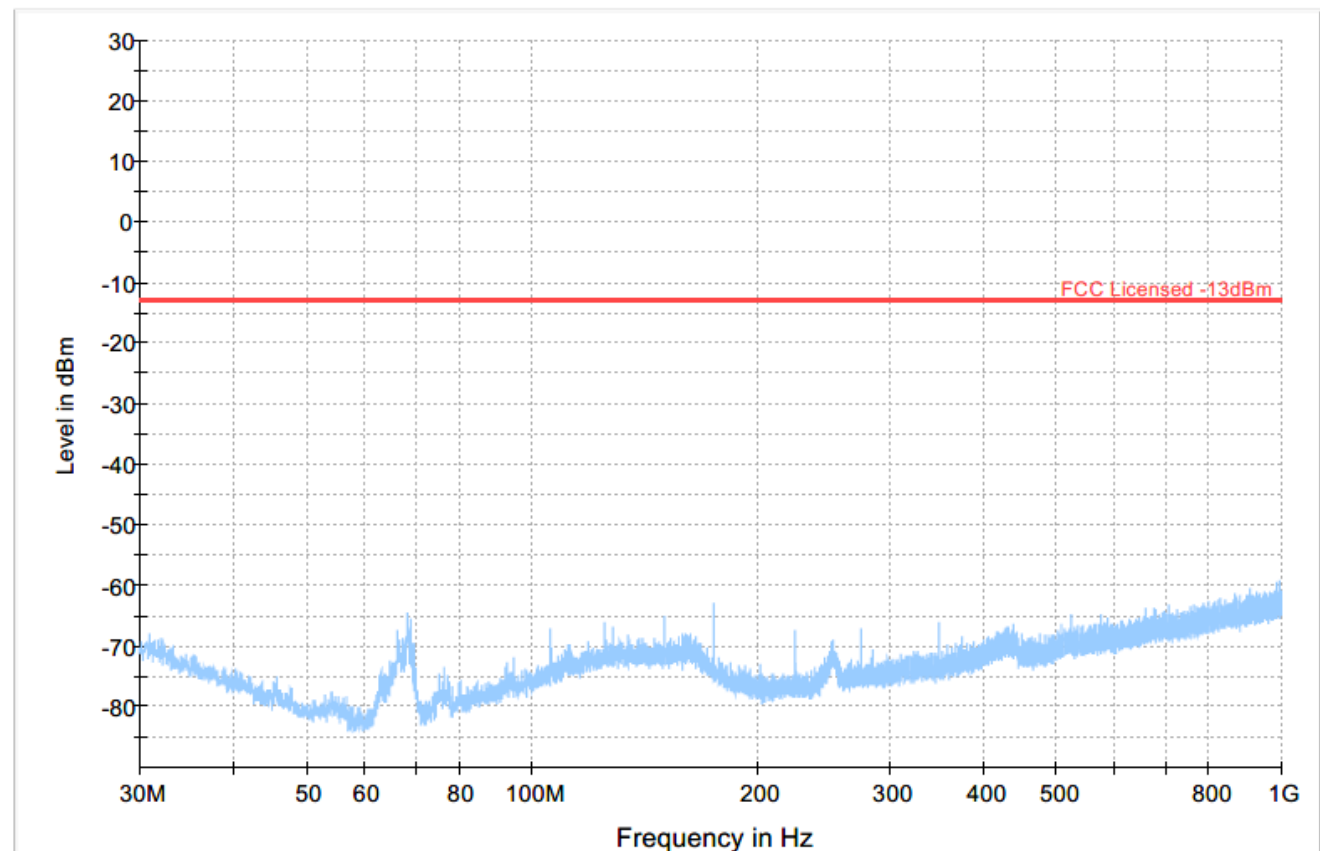


◆ Preview Result 1-PK+ Final_Result RMS * Critical_Freqs PK+ Final_Result PK+ — FCC Licensed -13dBm

UMTS Band IV

Plot #53 Radiated Emissions: 30 MHz – 1GHz

Channel: Low



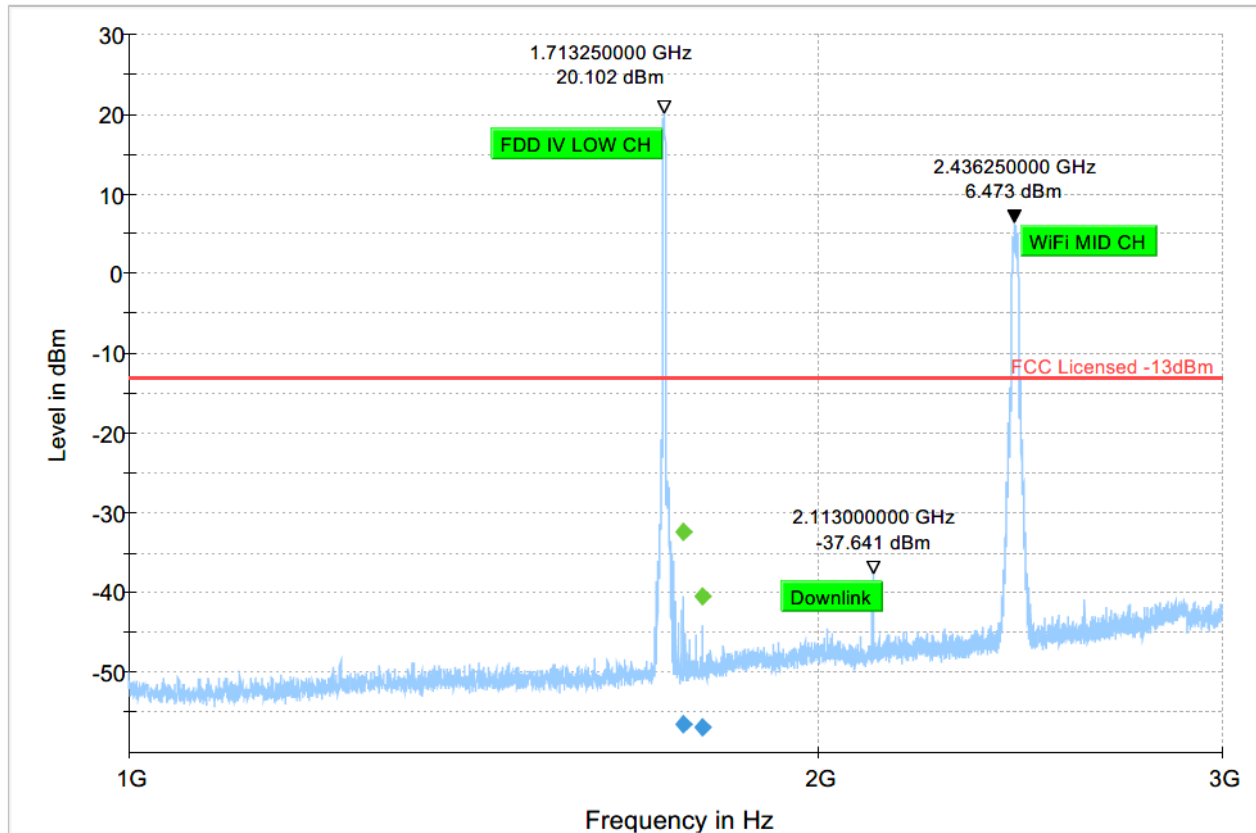
◆ Preview Result 1-PK+ * Critical_Freqs PK+ — FCC Licensed -13dBm
◆ Final_Result RMS ◆ Final_Result PK+

Plot #54 Radiated Emissions: 1-3 GHz

Channel: Low

Final Result

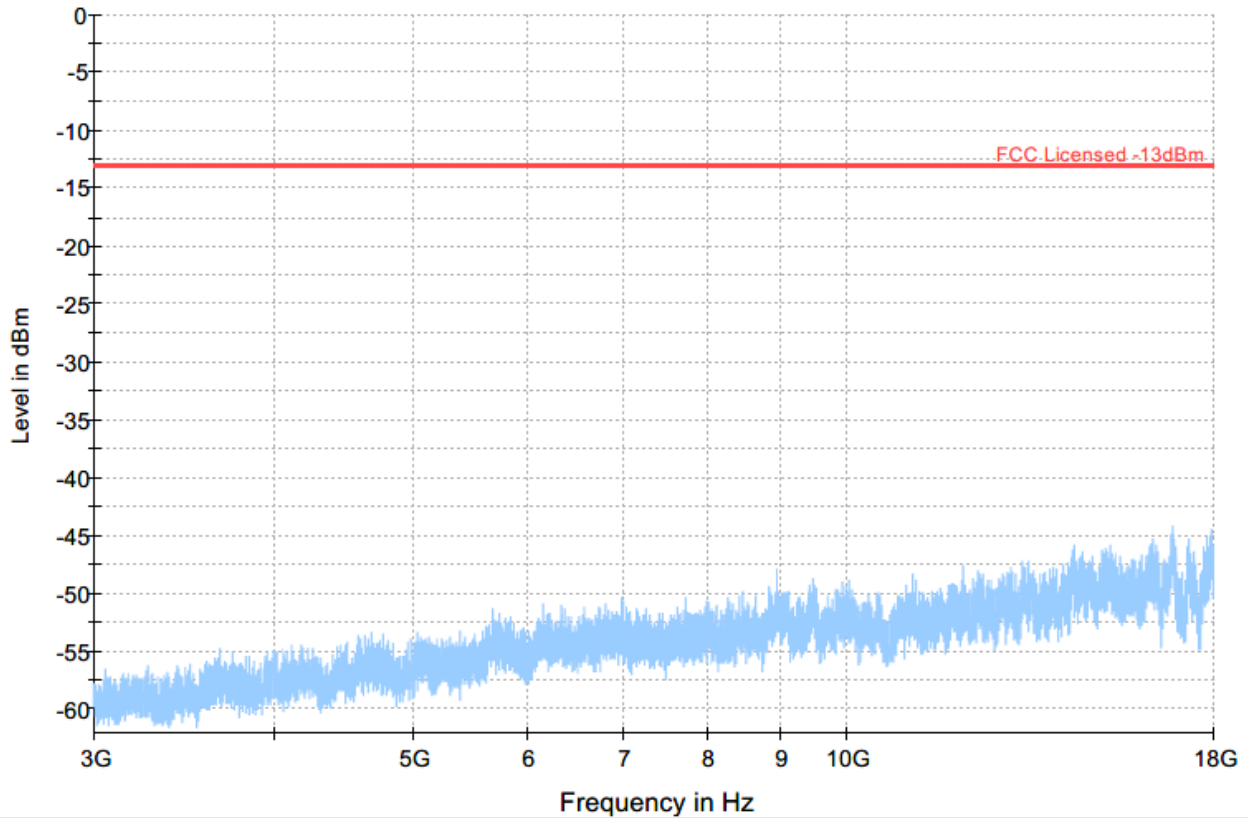
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
1747.000	---	-32.44	---	---	500.0	1000.000	116.0	H	281.0	-64.8	
1747.000	-56.51	---	-13.00	43.51	500.0	1000.000	116.0	H	281.0	-64.8	
1779.750	---	-40.41	---	---	500.0	1000.000	142.0	H	277.0	-64.8	
1779.750	-56.90	---	-13.00	43.90	500.0	1000.000	142.0	H	277.0	-64.8	



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

Plot #55 Radiated Emissions: 3-18 GHz

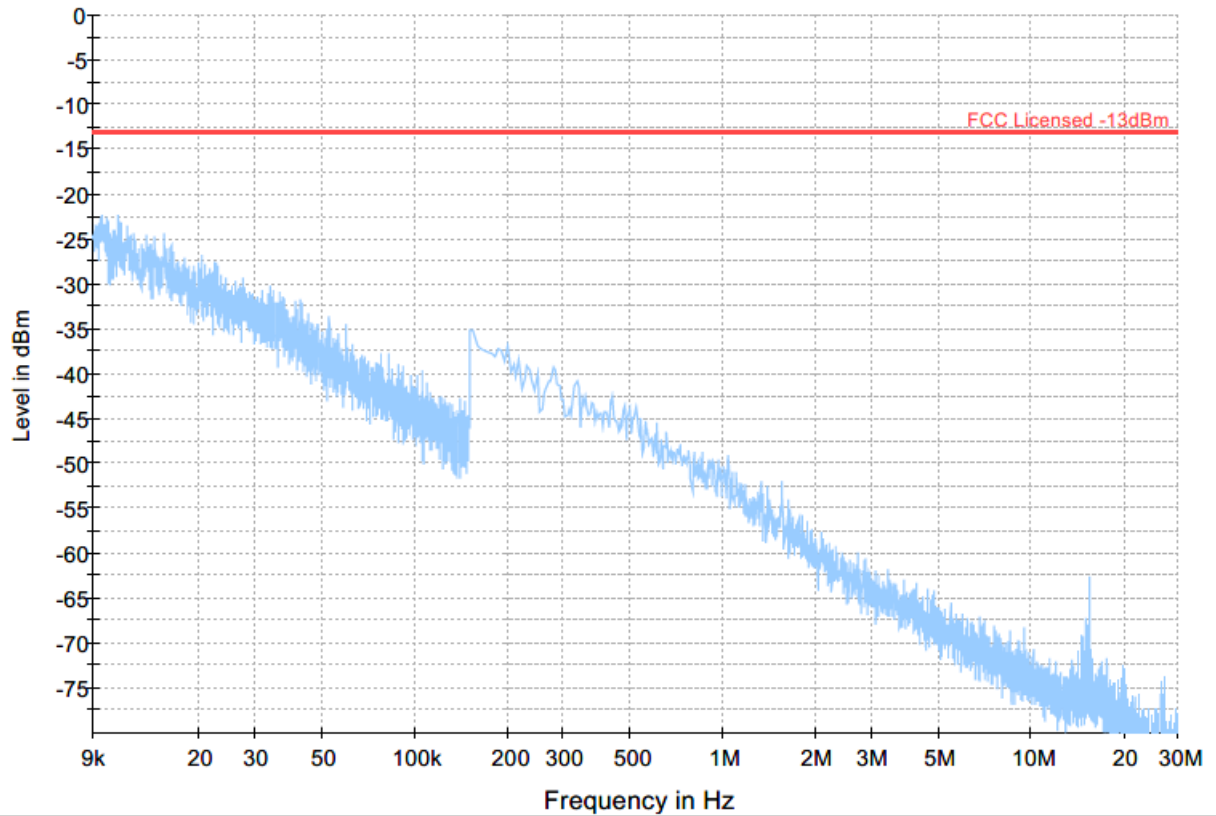
Channel: Low



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

Plot #56 Radiated Emissions: 9 kHz – 30 MHz

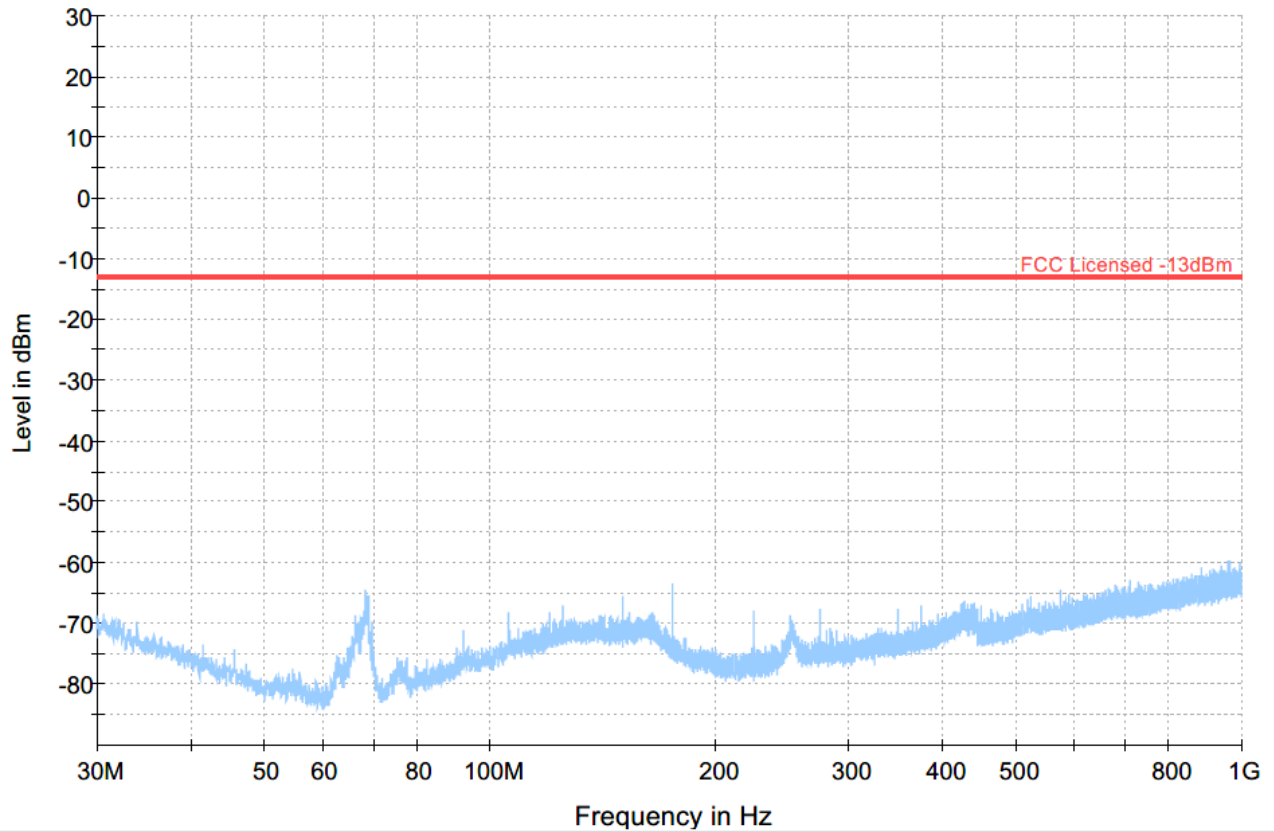
Channel: Mid



— Preview Result 1-PK+ * Critical_Freqs PK+ — FCC Licensed -13dBm ◆ Final_Result RM

Plot #57 Radiated Emissions: 30 MHz – 1 GHz

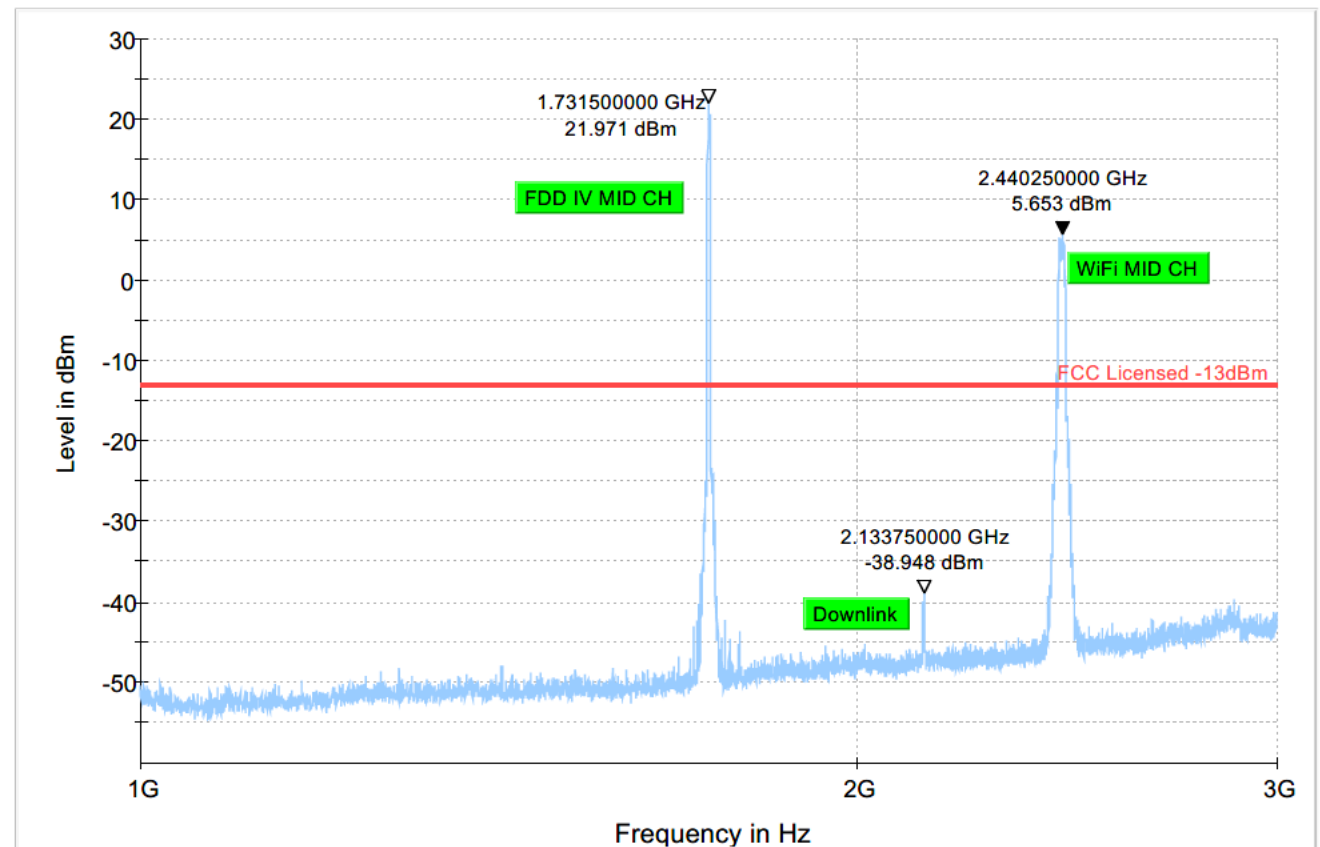
Channel: Mid



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

Plot #58 Radiated Emissions: 1-3 GHz

Channel: Mid



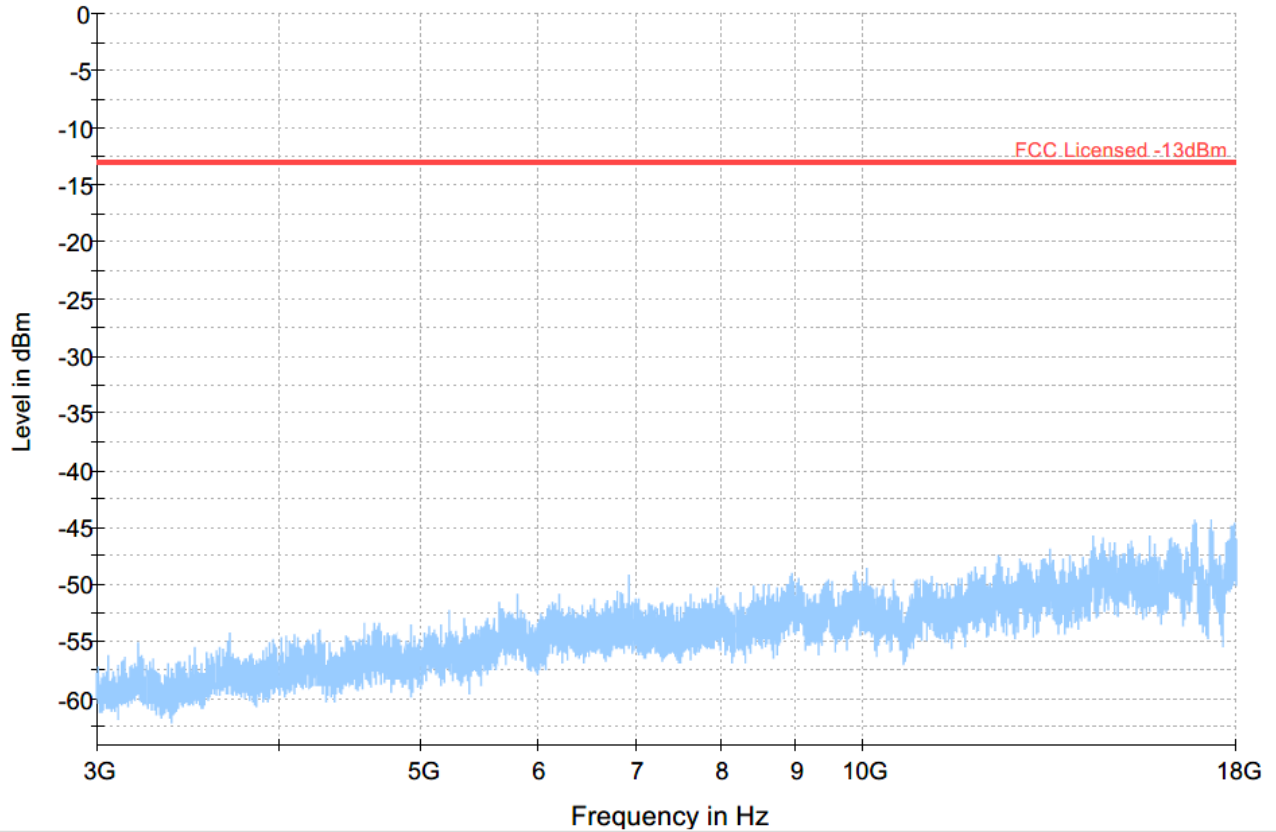
◆ Preview Result 1-PK+ Final_Result RMS

* Critical_Freqs PK+ Final_Result PK+

— FCC Licensed -13dBm

Plot #59 Radiated Emissions: 3-18 GHz

Channel: Mid



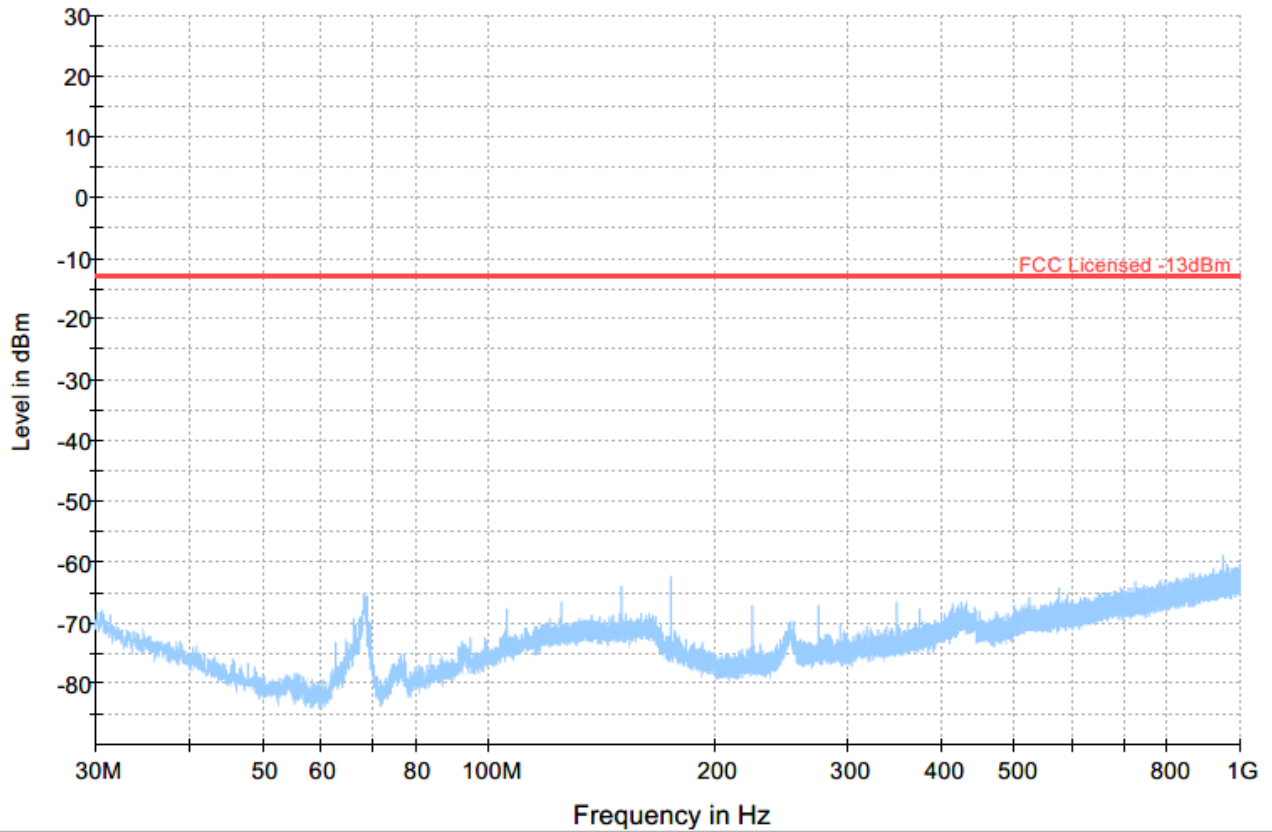
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #60 Radiated Emissions: 30 MHz – 1 GHz

Channel: High



Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

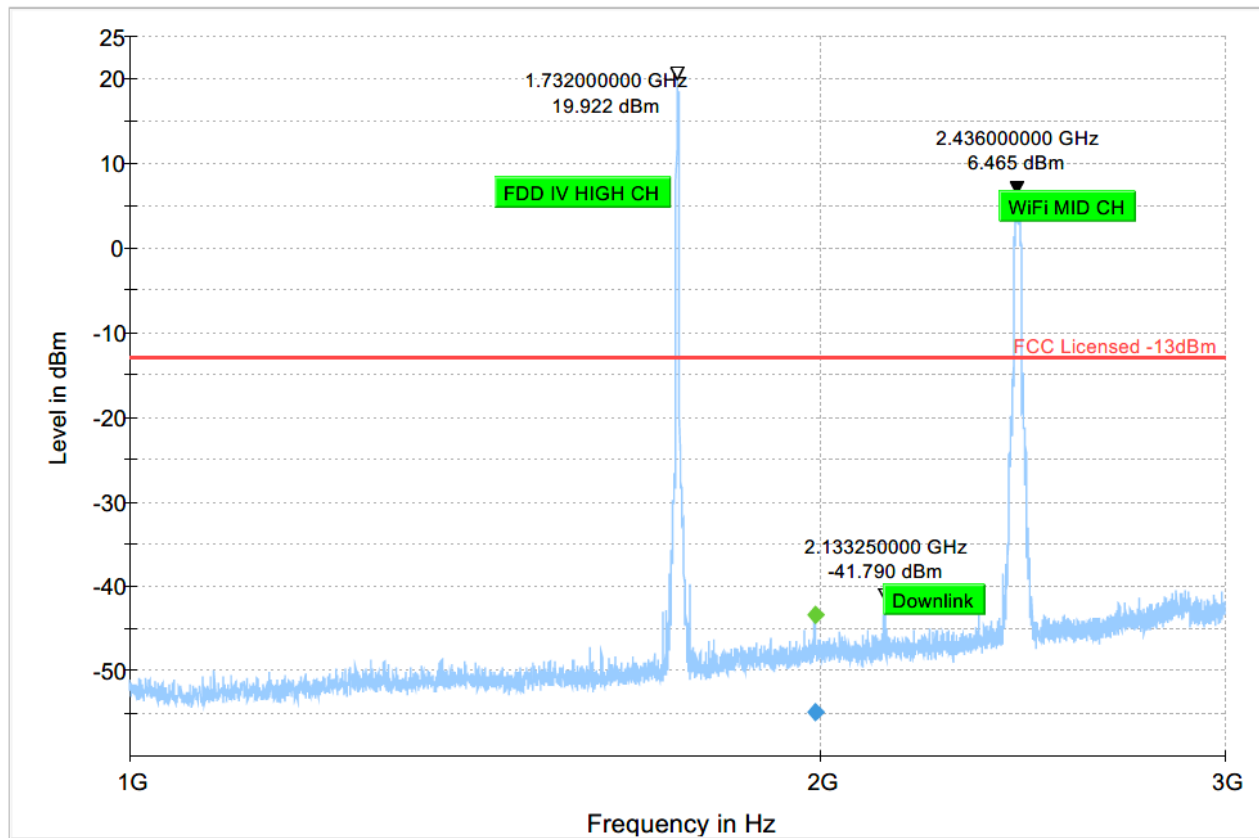
FCC Licensed -13dBm

Plot #61 Radiated Emissions: 1-3 GHz

Channel: High

Final Result

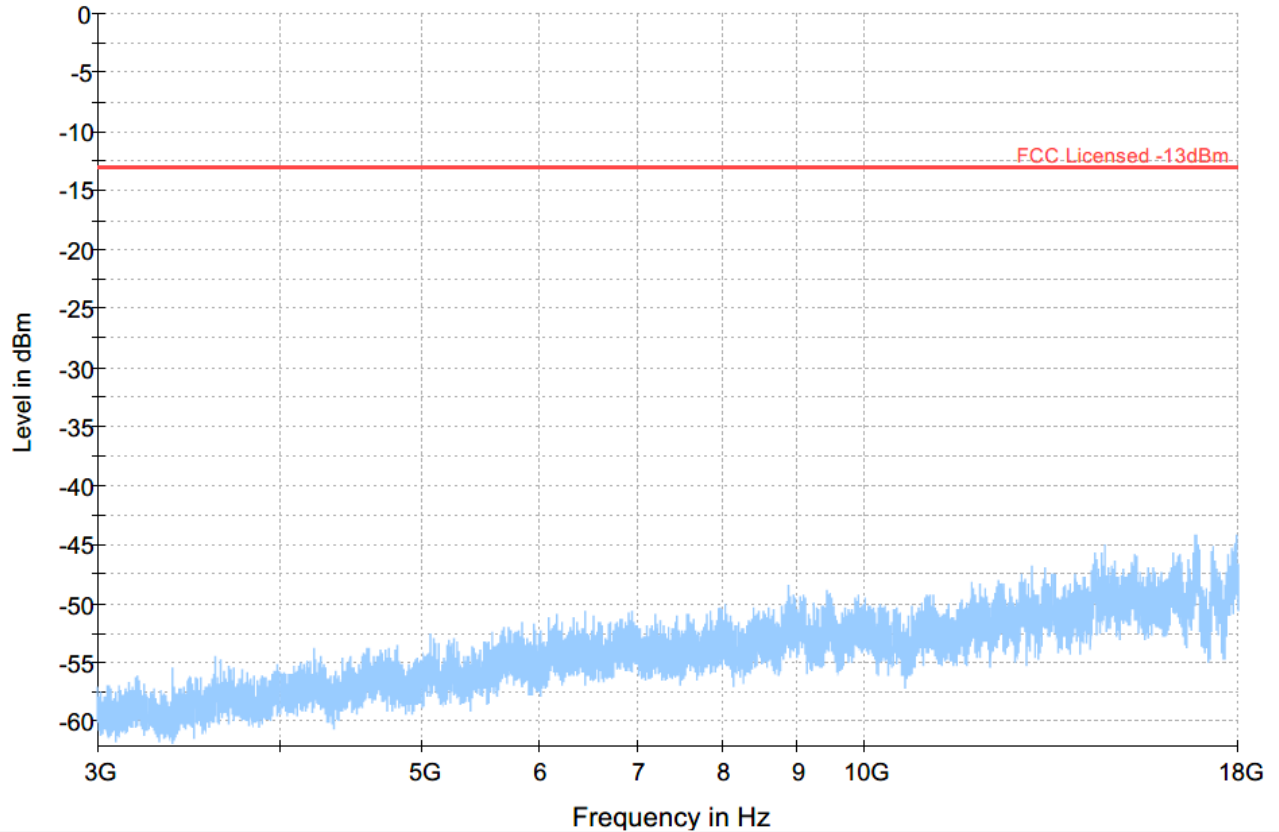
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
1988.000	---	-43.39	---	---	500.0	1000.000	267.0	V	267.0	-63.9	
1988.000	-54.97	---	-13.00	41.97	500.0	1000.000	267.0	V	267.0	-63.9	



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

Plot #62 Radiated Emissions: 3-18 GHz

Channel: High



Preview Result 1-PK+
Final_Result RMS

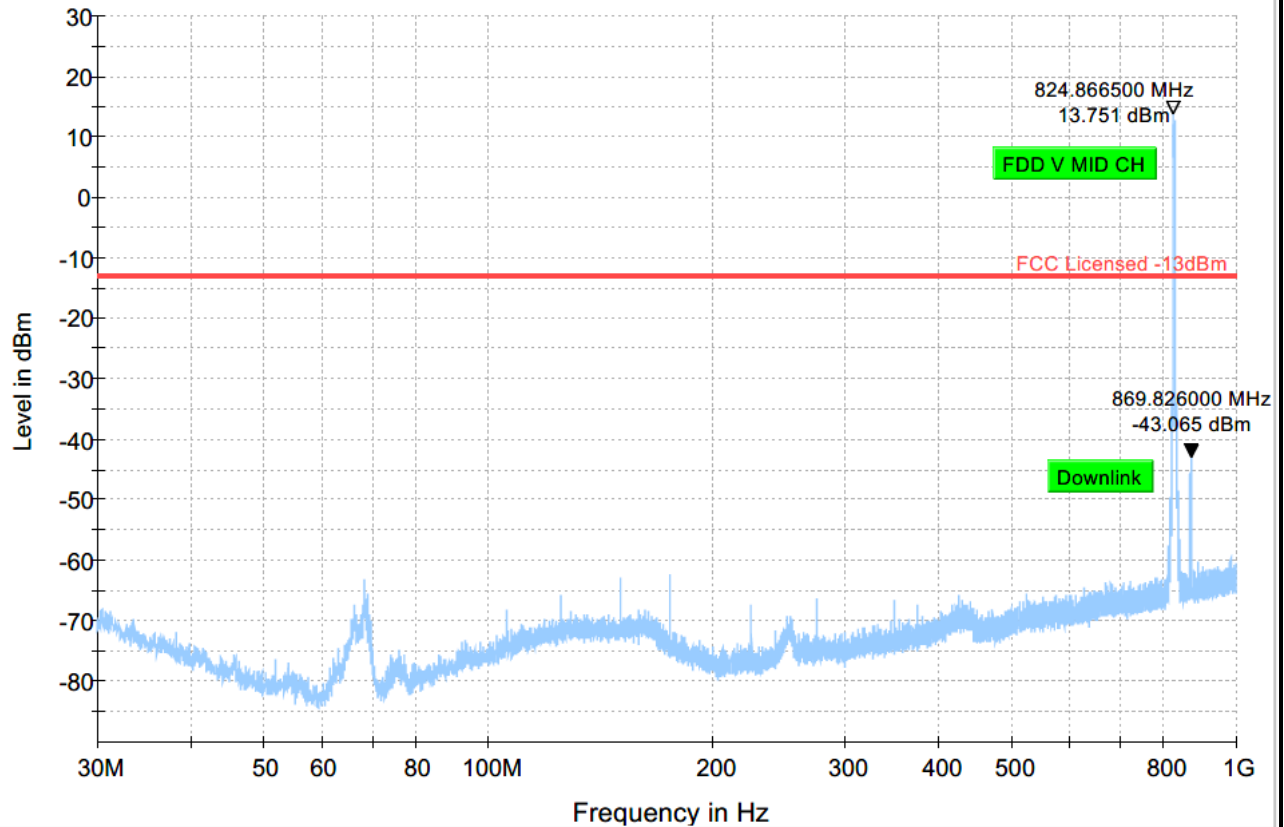
* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

UMTS Band V

Plot #63 Radiated Emissions: 30 MHz – 1GHz

Channel: Low



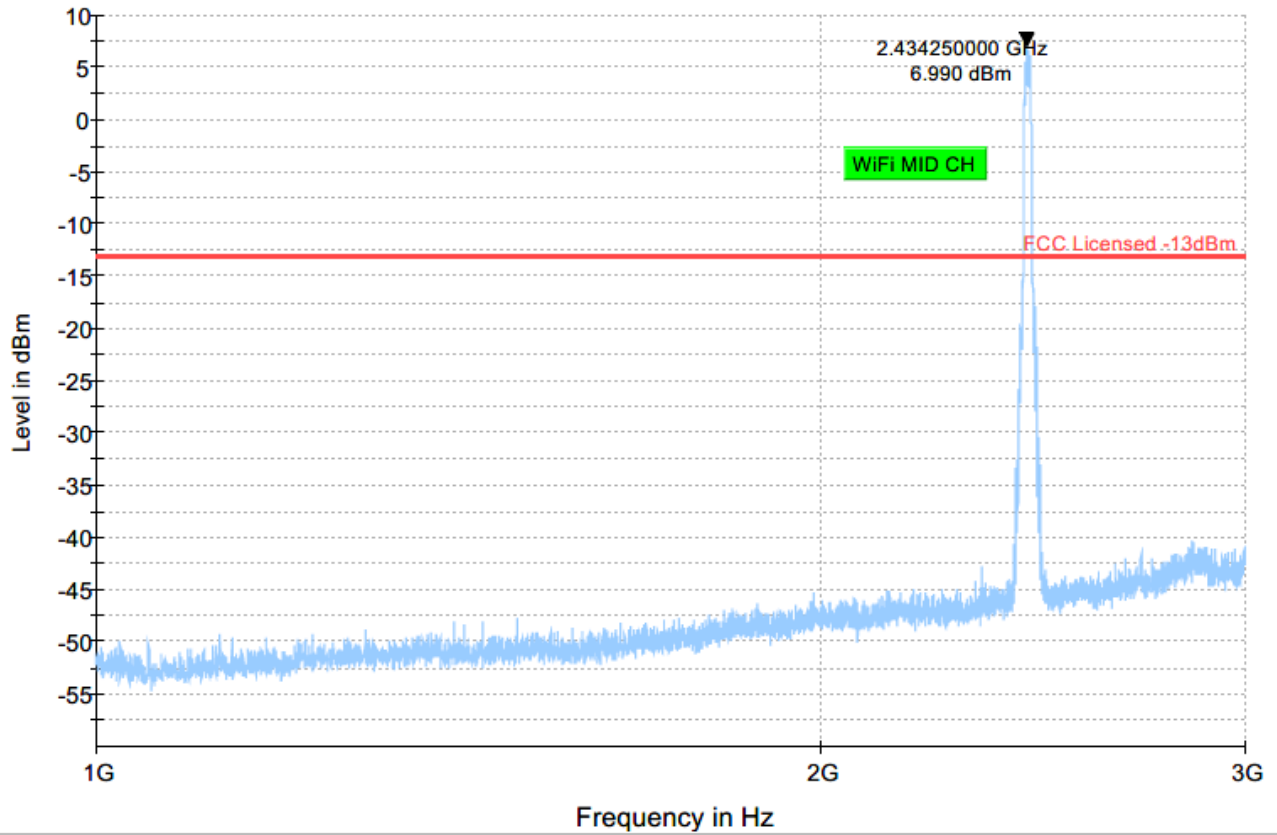
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #64 Radiated Emissions: 1-3 GHz

Channel: Low



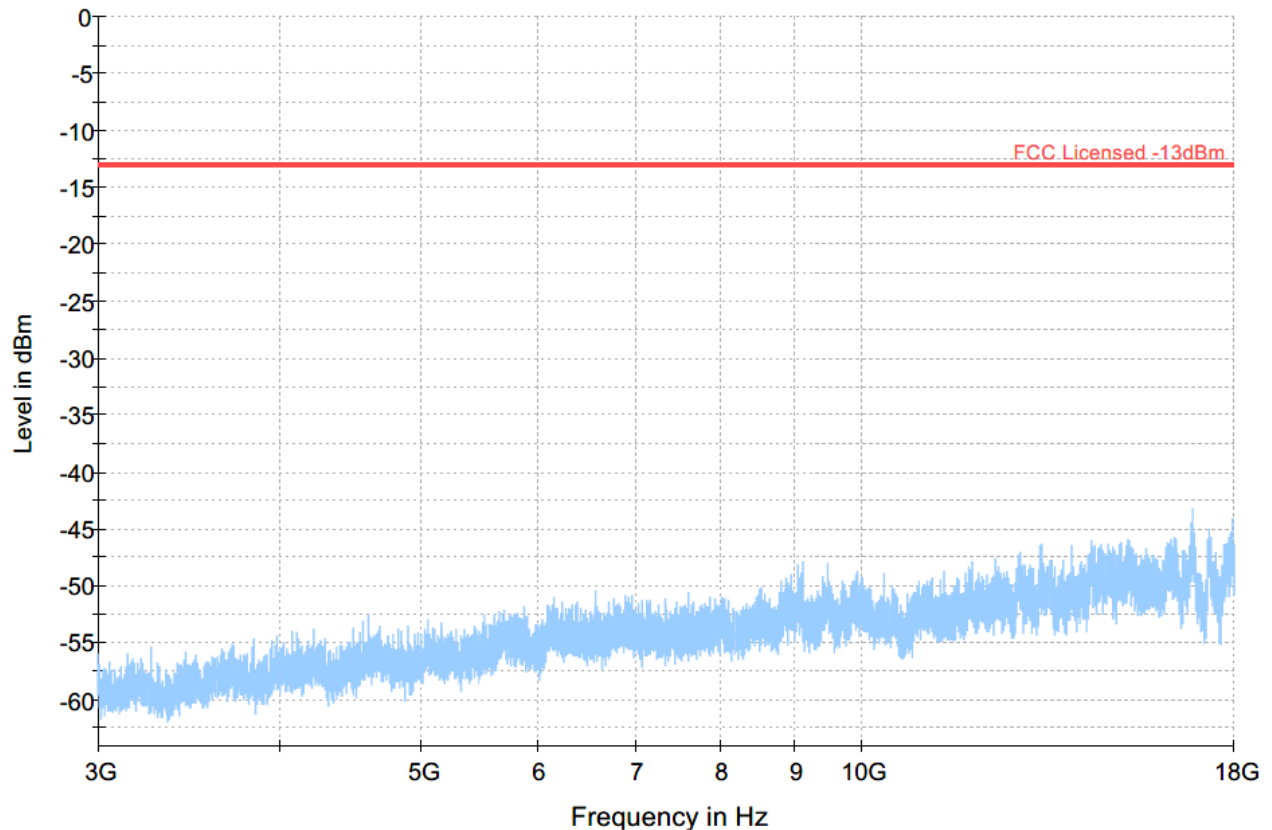
◆ Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

— FCC Licensed -13dBm

Plot #65 Radiated Emissions: 3-18 GHz

Channel: Low



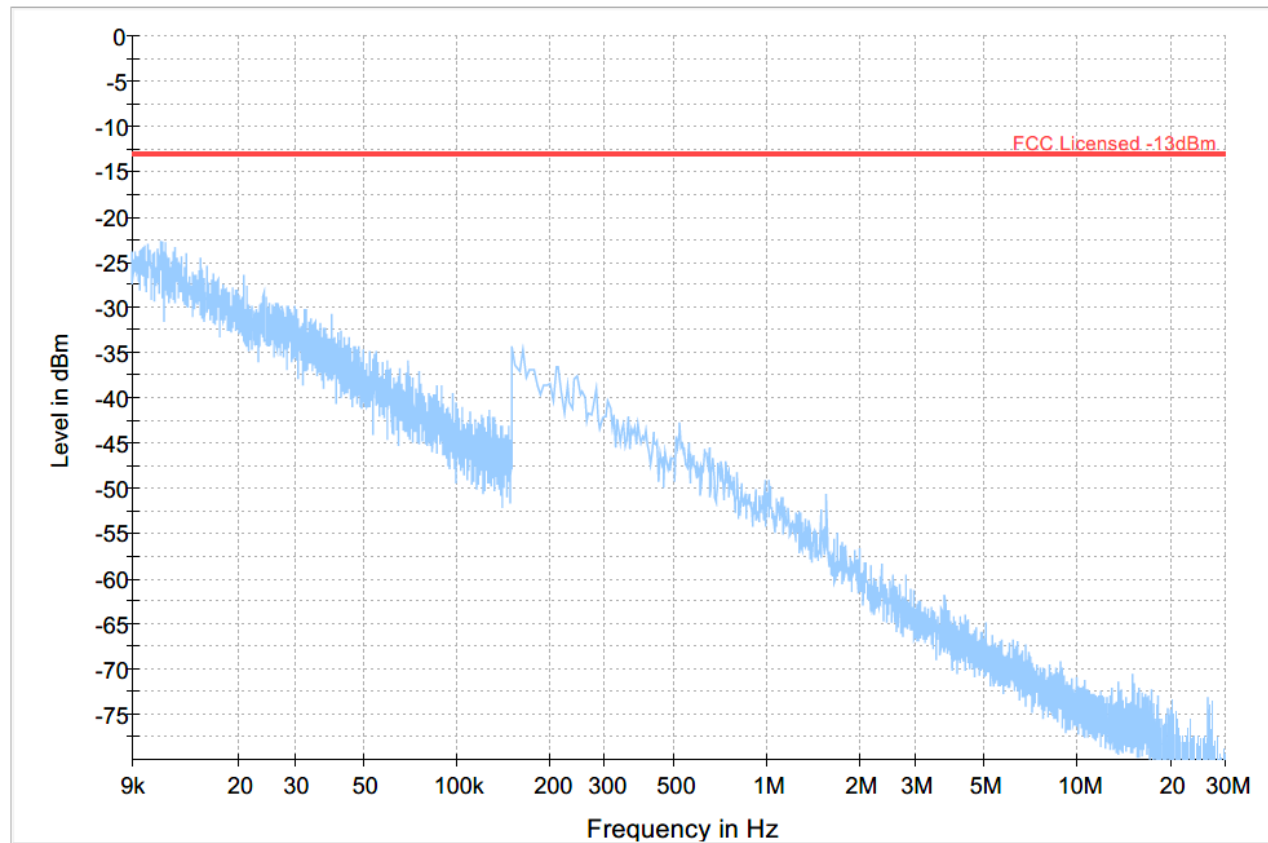
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #66 Radiated Emissions: 9 kHz – 30 MHz

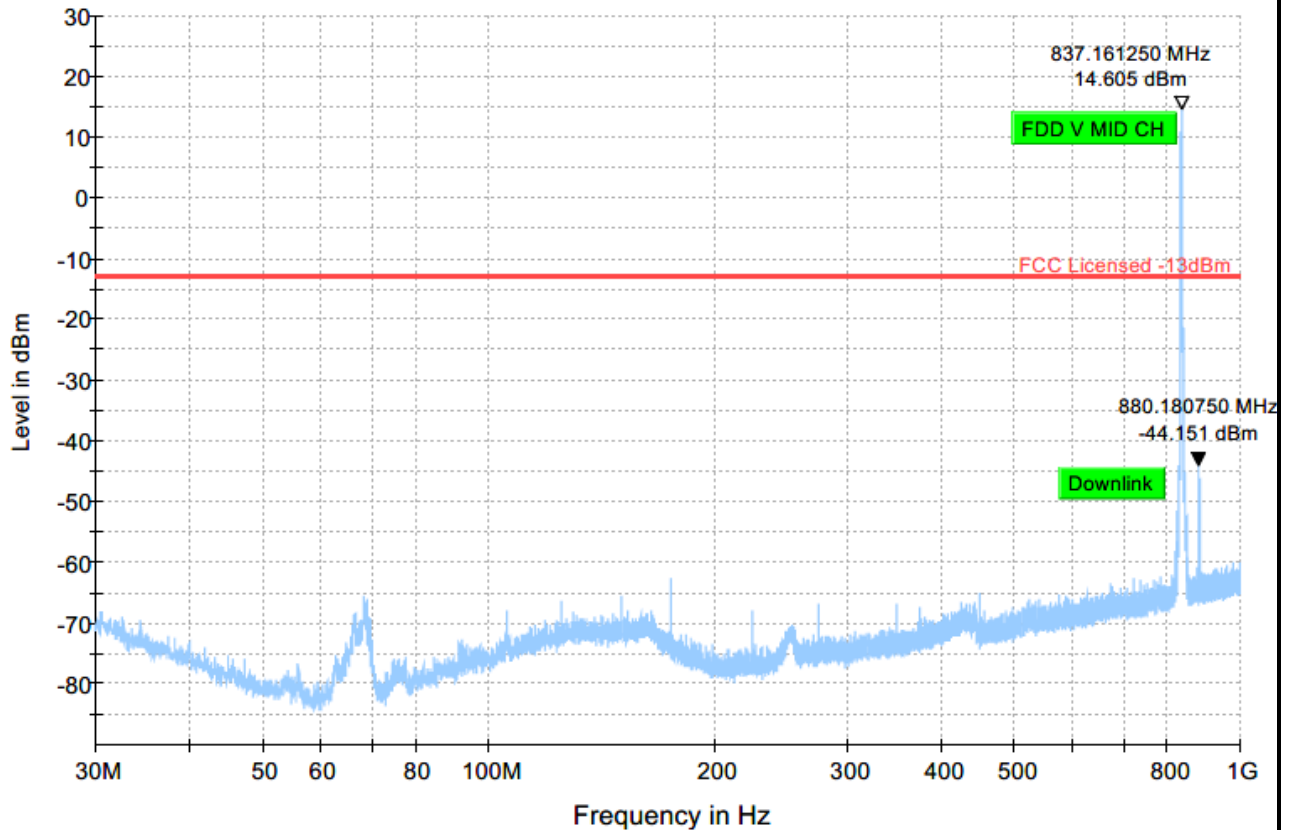
Channel: Mid



— Preview Result 1-PK+ * Critical_Freqs PK+ — FCC Licensed -13dBm ◆ Final_Result RM

Plot #67 Radiated Emissions: 30 MHz – 1 GHz

Channel: Mid



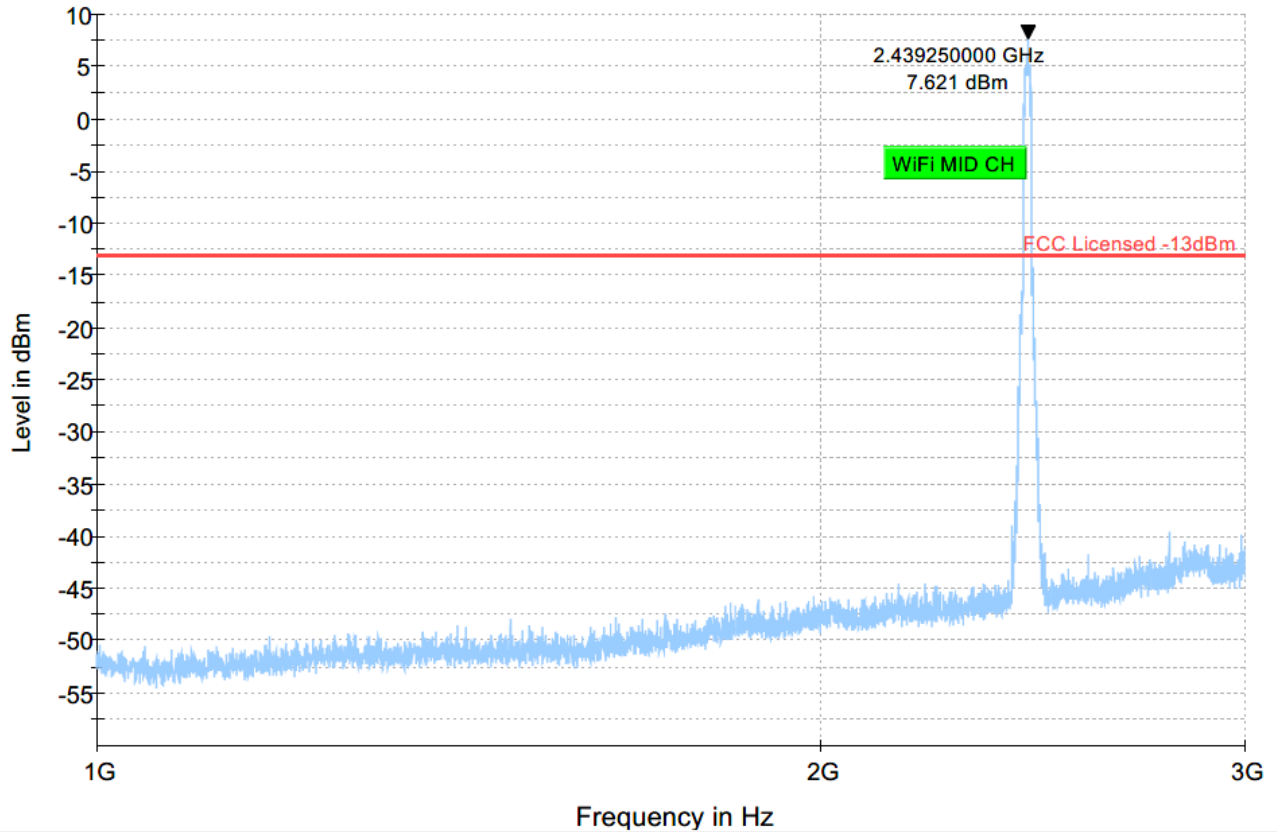
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #68 Radiated Emissions: 1-3 GHz

Channel: Mid



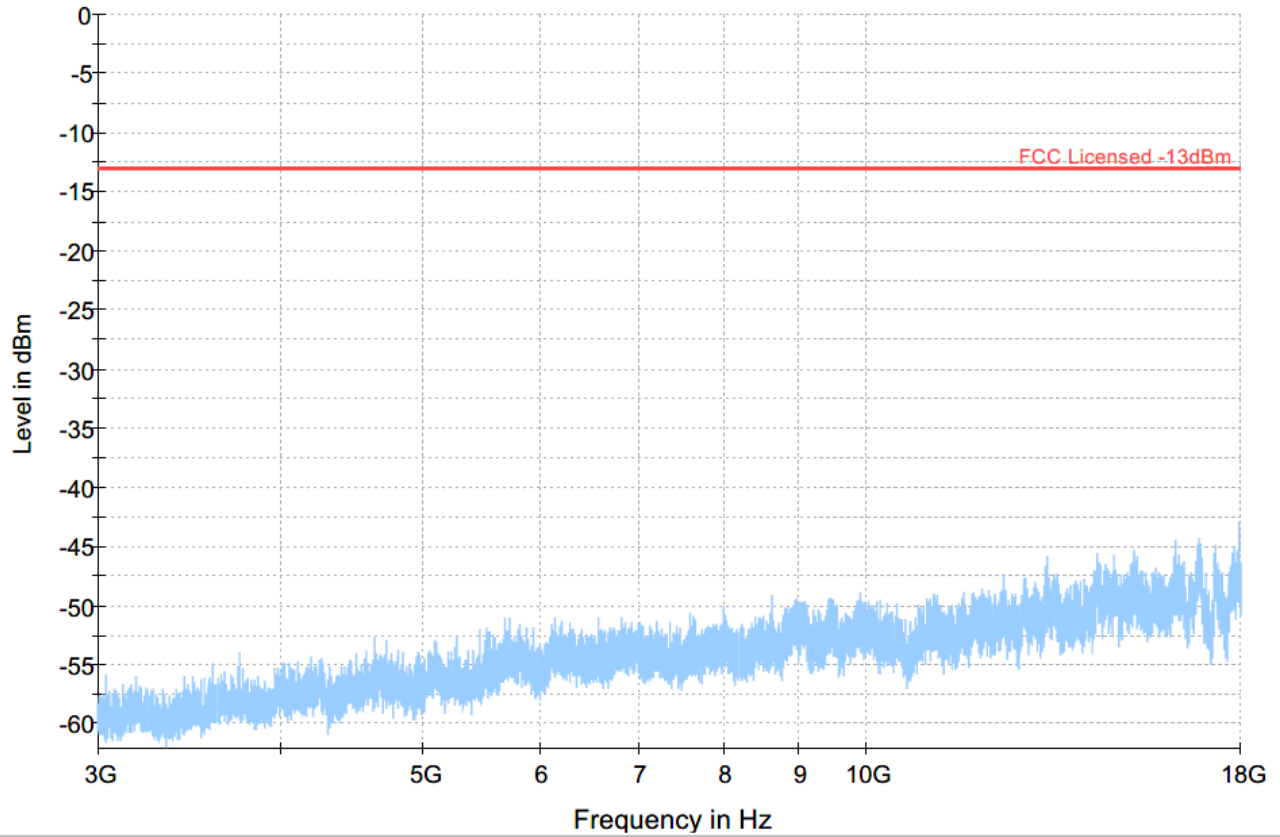
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #69 Radiated Emissions: 3-18 GHz

Channel: Mid



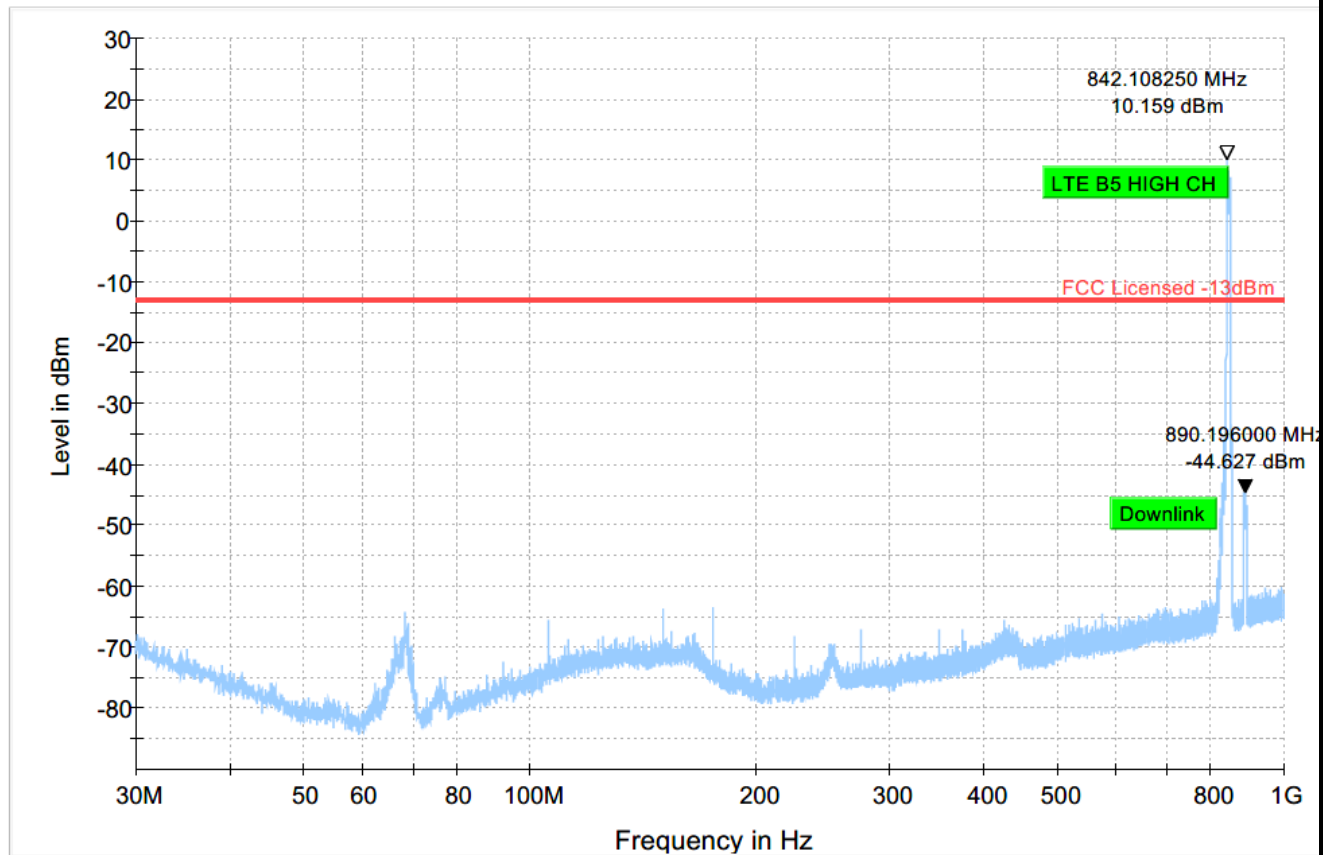
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #70 Radiated Emissions: 30 MHz – 1 GHz

Channel: High



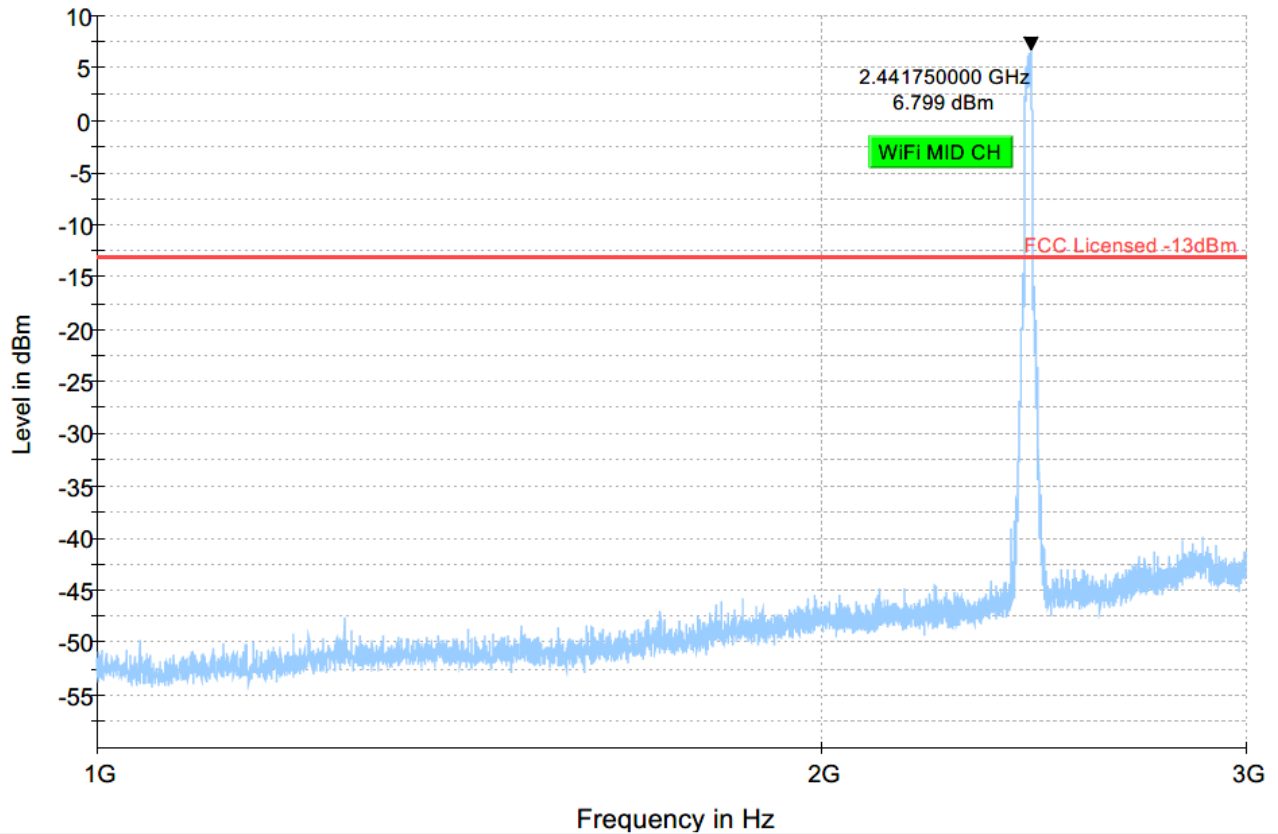
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #71 Radiated Emissions: 1-3 GHz

Channel: High



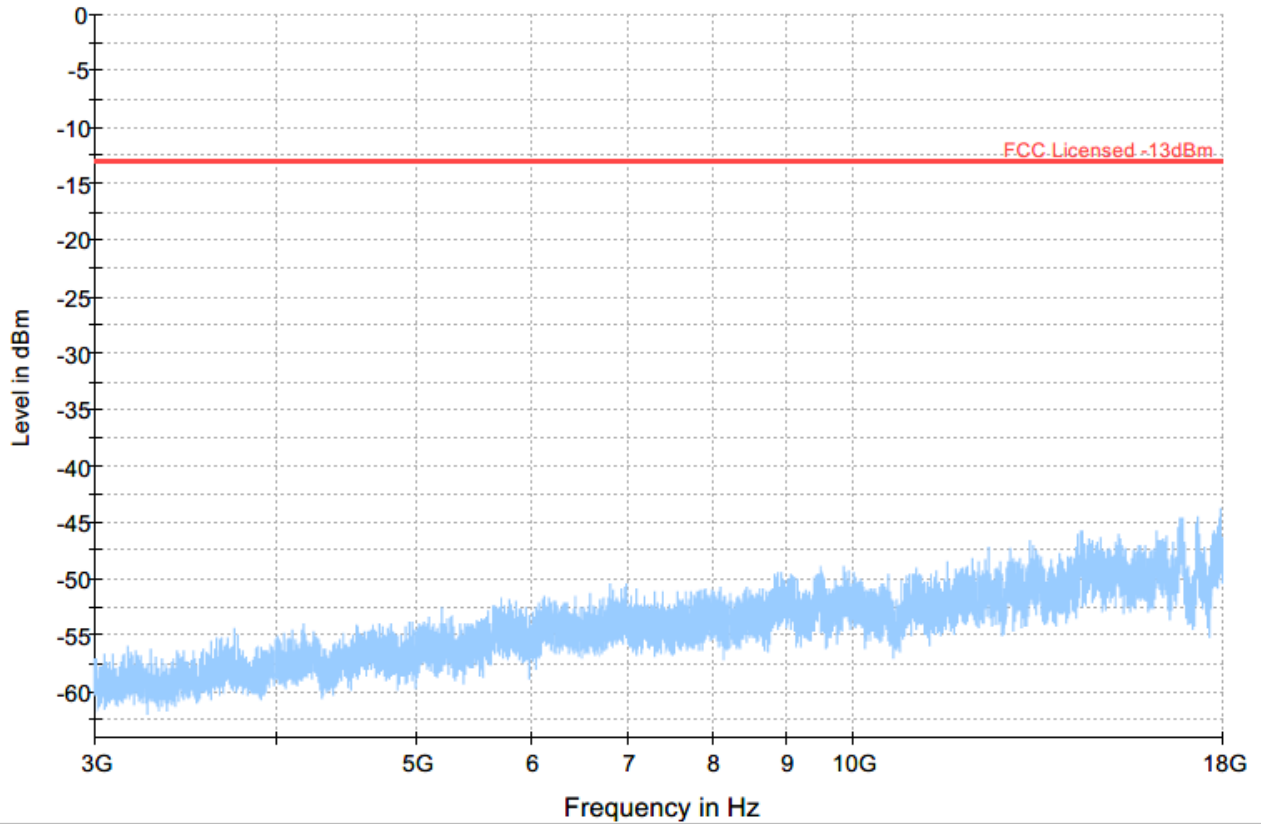
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #72 Radiated Emissions: 3-18 GHz

Channel: High



Preview Result 1-PK+
Final_Result RMS

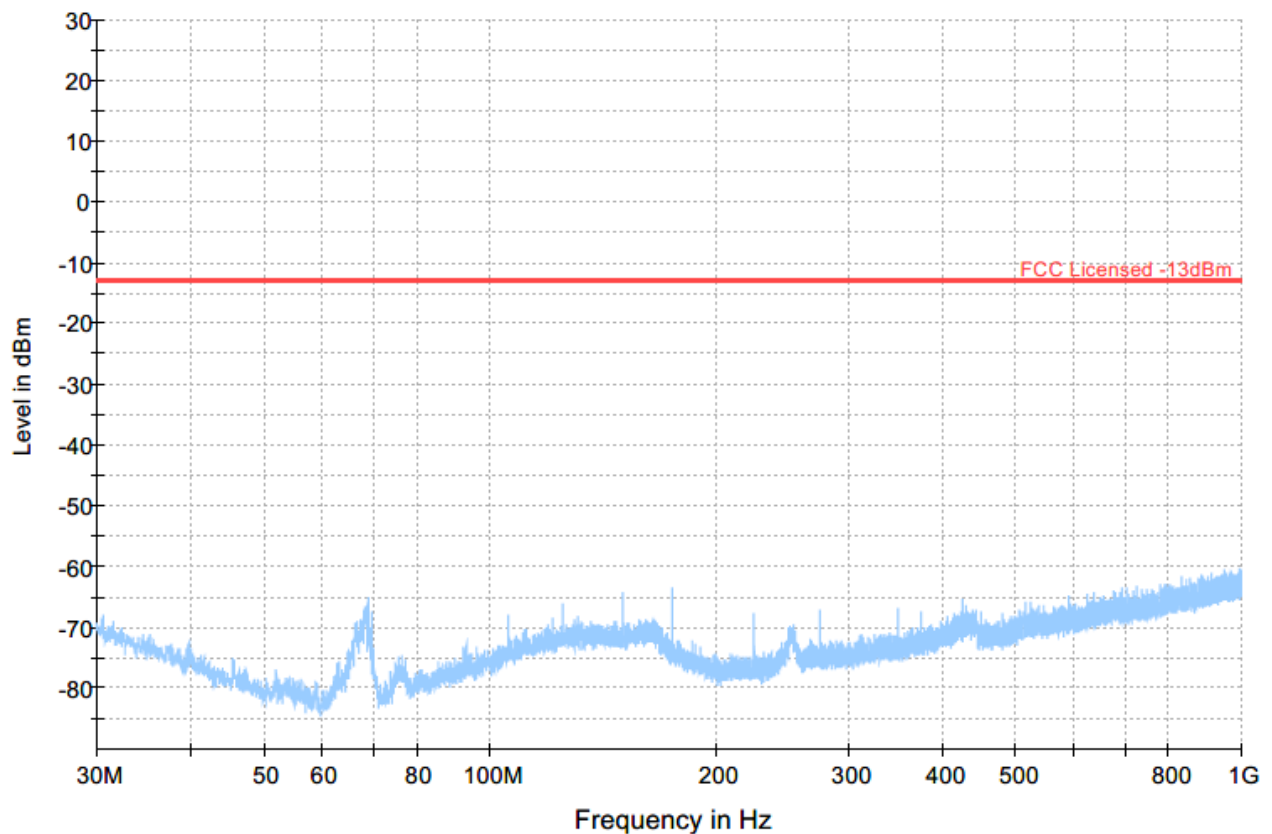
* Critical_Freqs PK+
Final_Result PK+

FCC Licensed -13dBm

LTE Band 7

Plot #73 Radiated Emissions: 30 MHz – 1GHz

Channel: Low



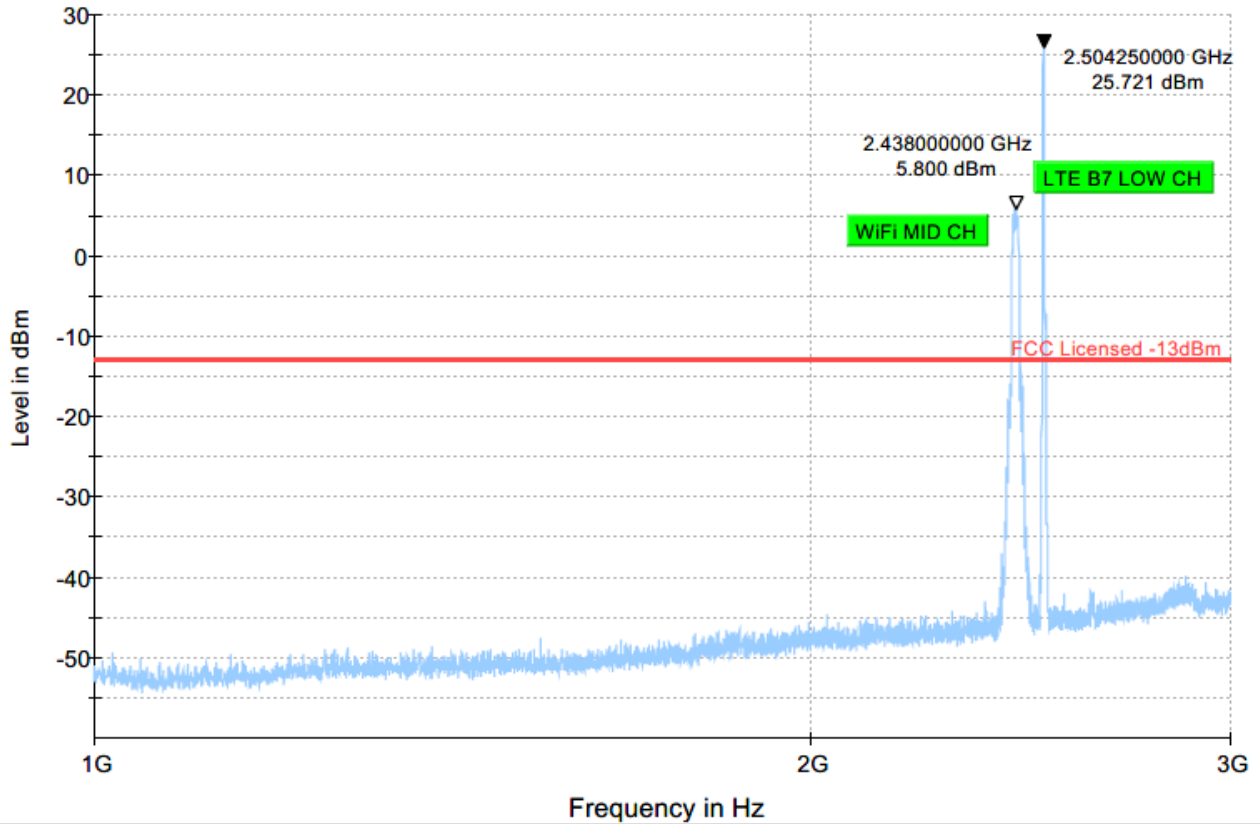
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
Final_Result PK+

FCC Licensed -13dBm

Plot # 74 Radiated Emissions: 1-3 GHz

Channel: Low



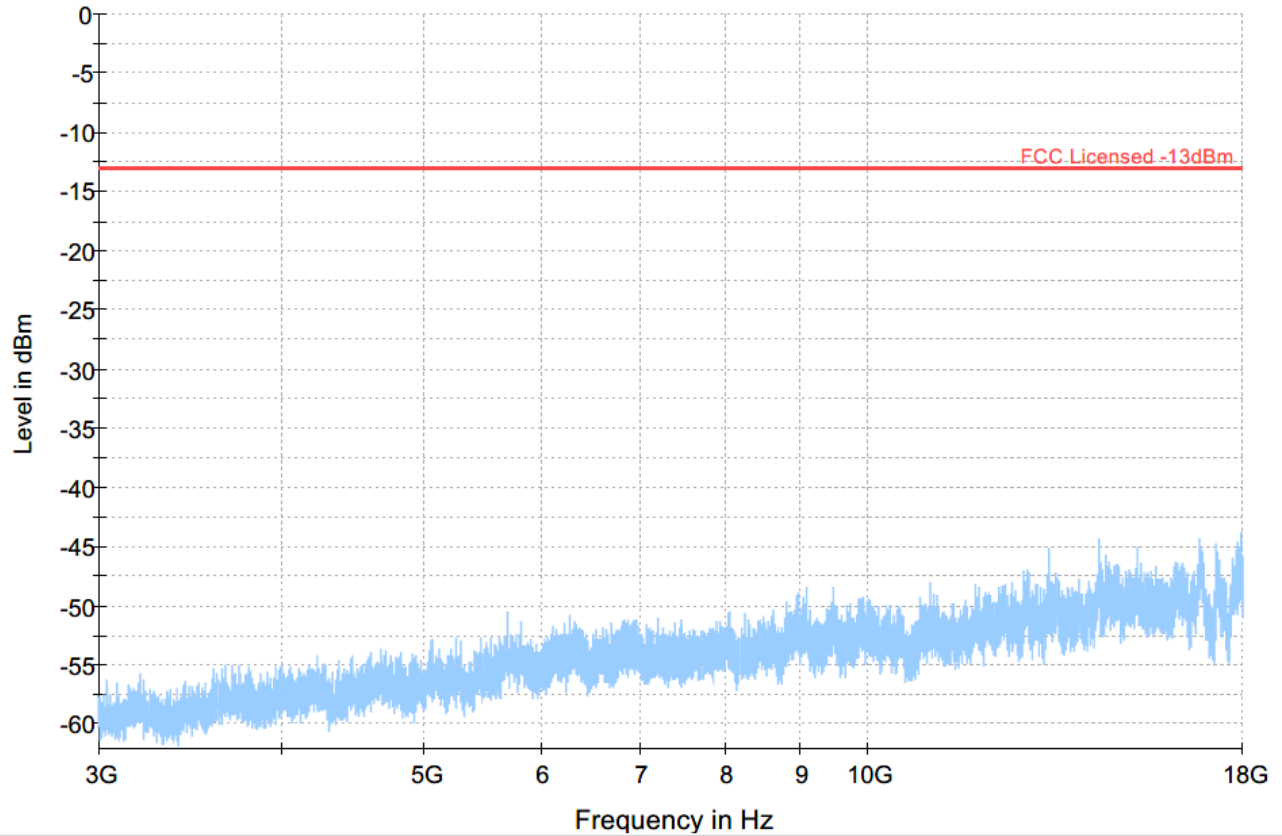
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
Final_Result PK+

FCC Licensed -13dBm

Plot # 75 Radiated Emissions: 3-18 GHz

Channel: Low



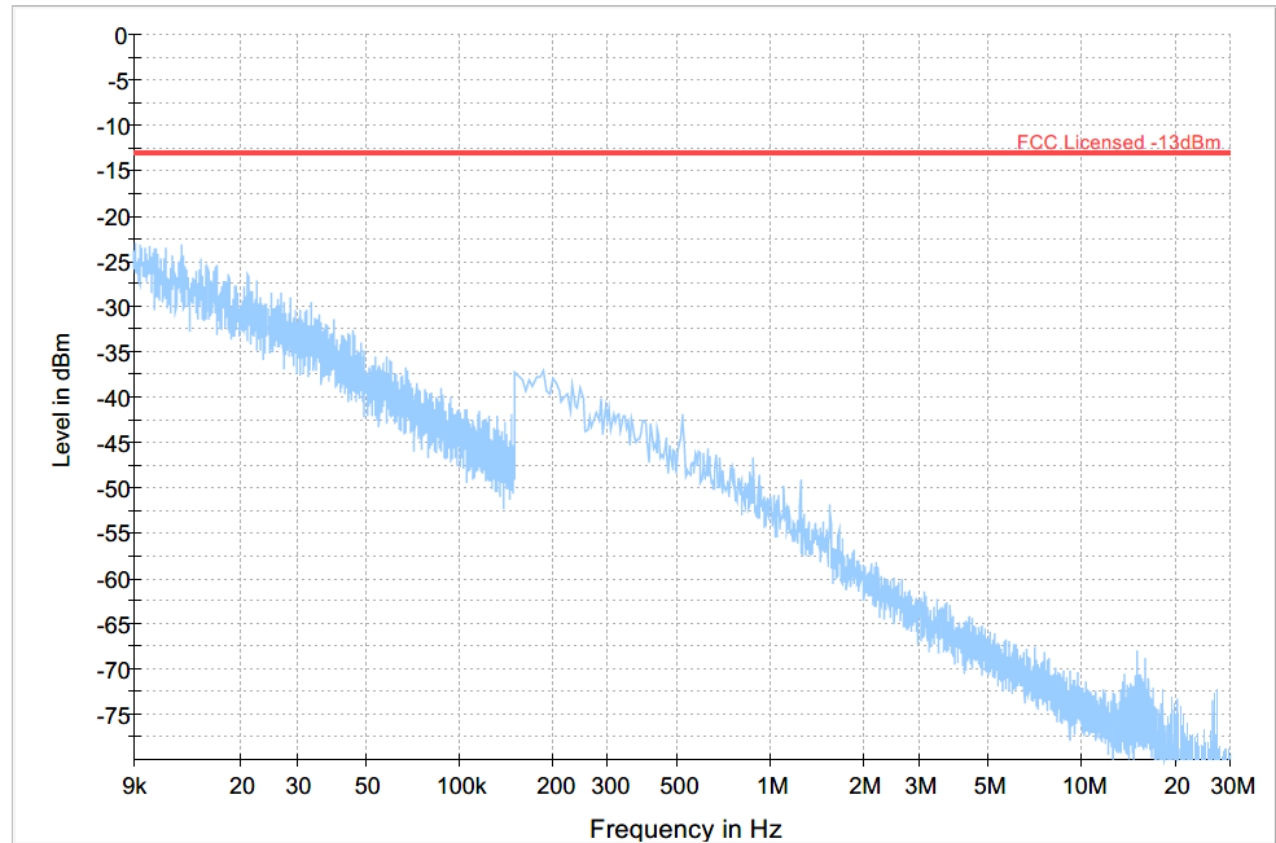
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #76 Radiated Emissions: 9 kHz – 30 MHz

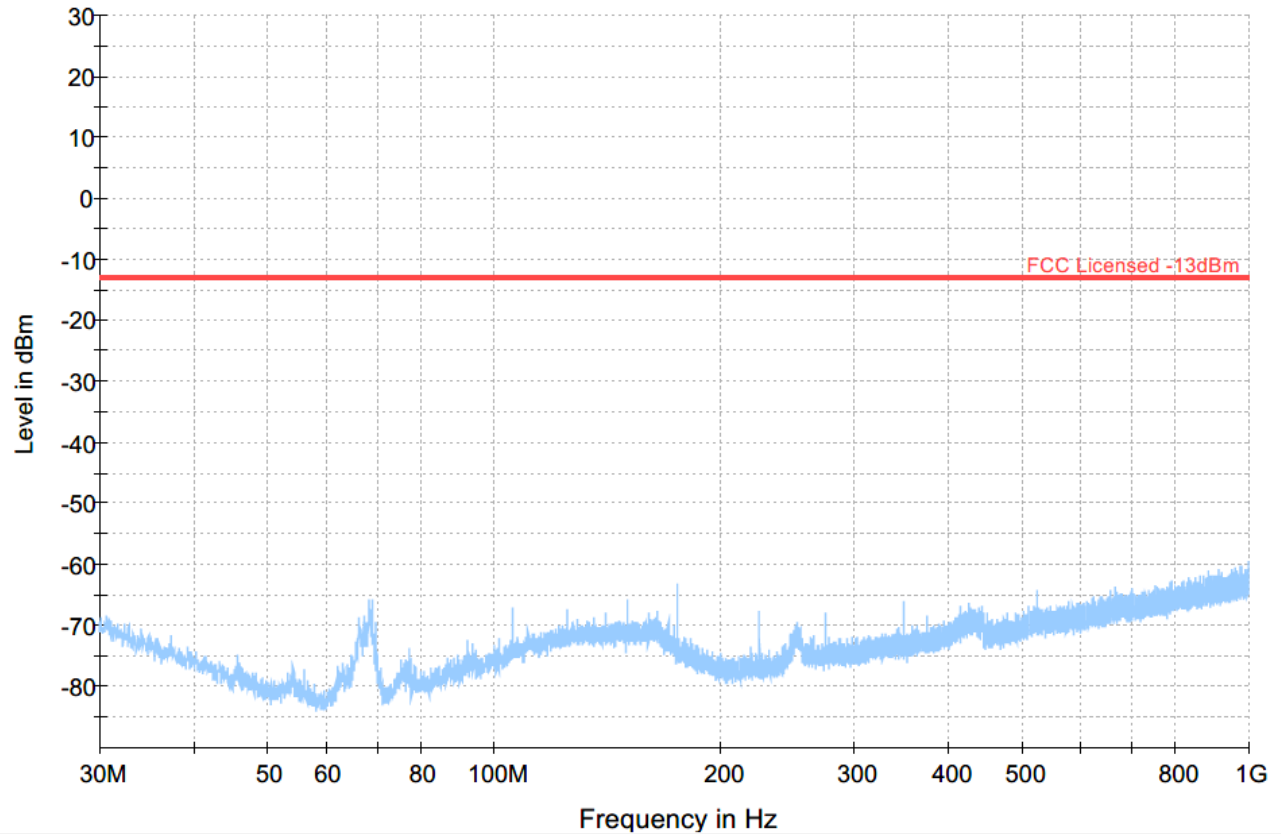
Channel: Mid



Preview Result 1-PK+ * Critical_Freqs PK+ FCC Licensed -13dBm Final_Result RM

Plot #77 Radiated Emissions: 30 MHz – 1 GHz

Channel: Mid



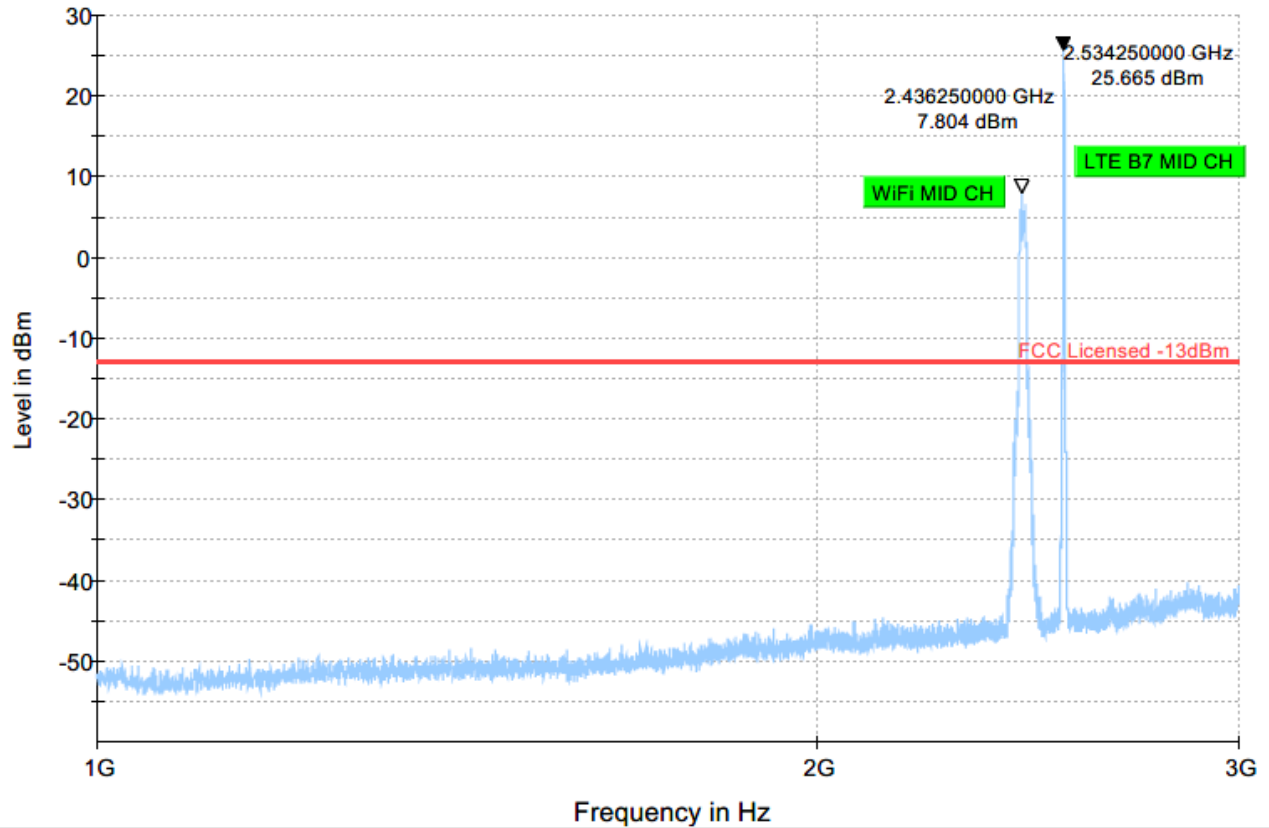
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
◆ Final_Result PK+

FCC Licensed -13dBm

Plot #78 Radiated Emissions: 1-3 GHz

Channel: Mid



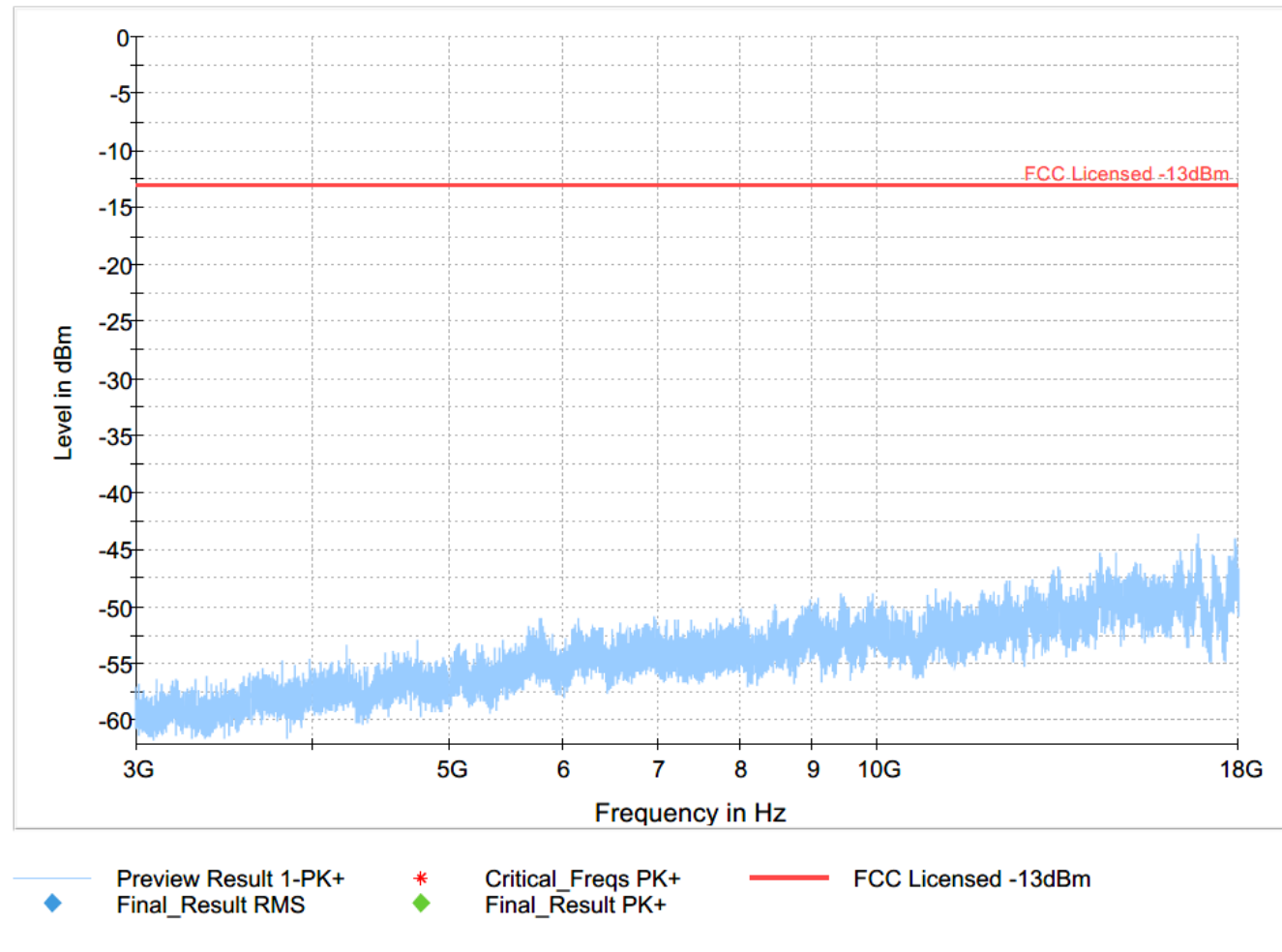
Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
Final_Result PK+

FCC Licensed -13dBm

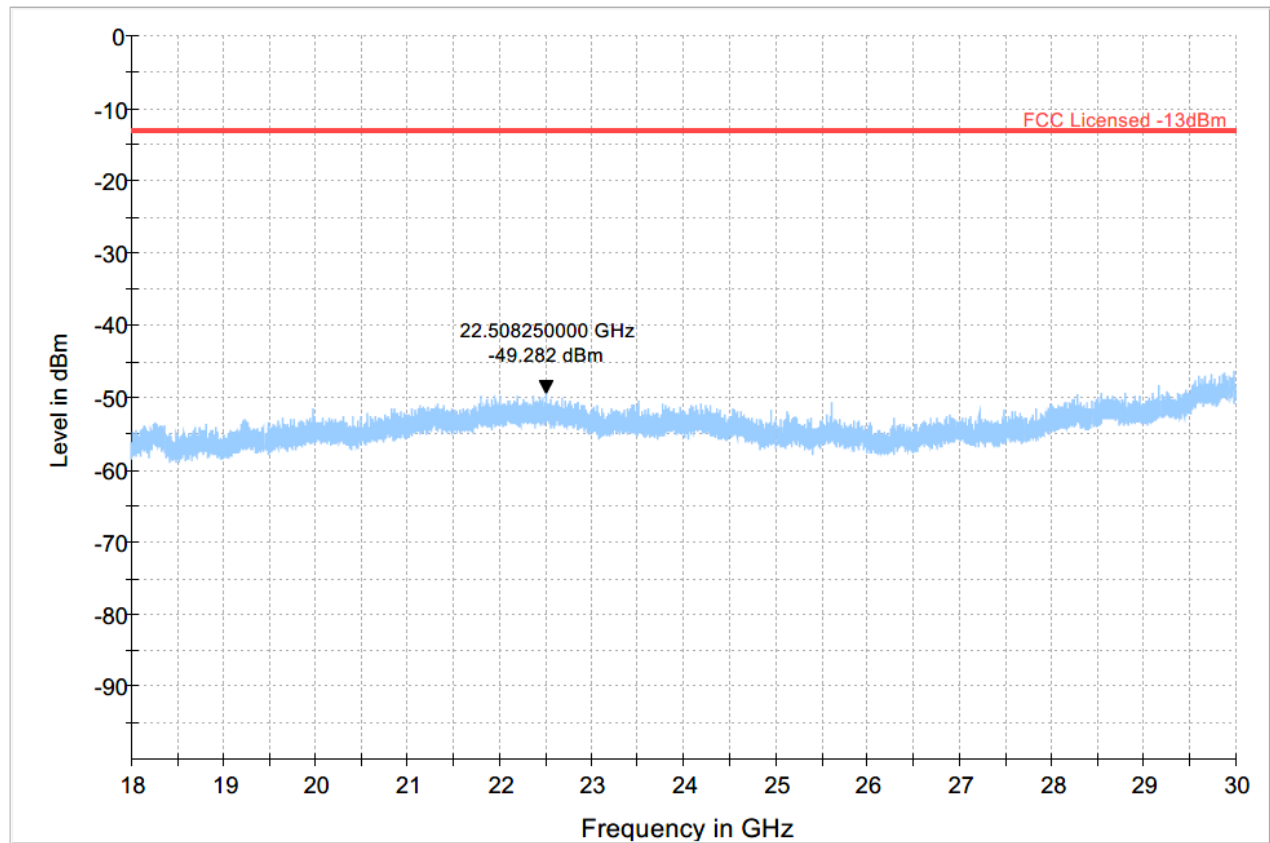
Plot #79 Radiated Emissions: 3-18 GHz

Channel: Mid



Plot #80 Radiated Emissions: 18-30 GHz

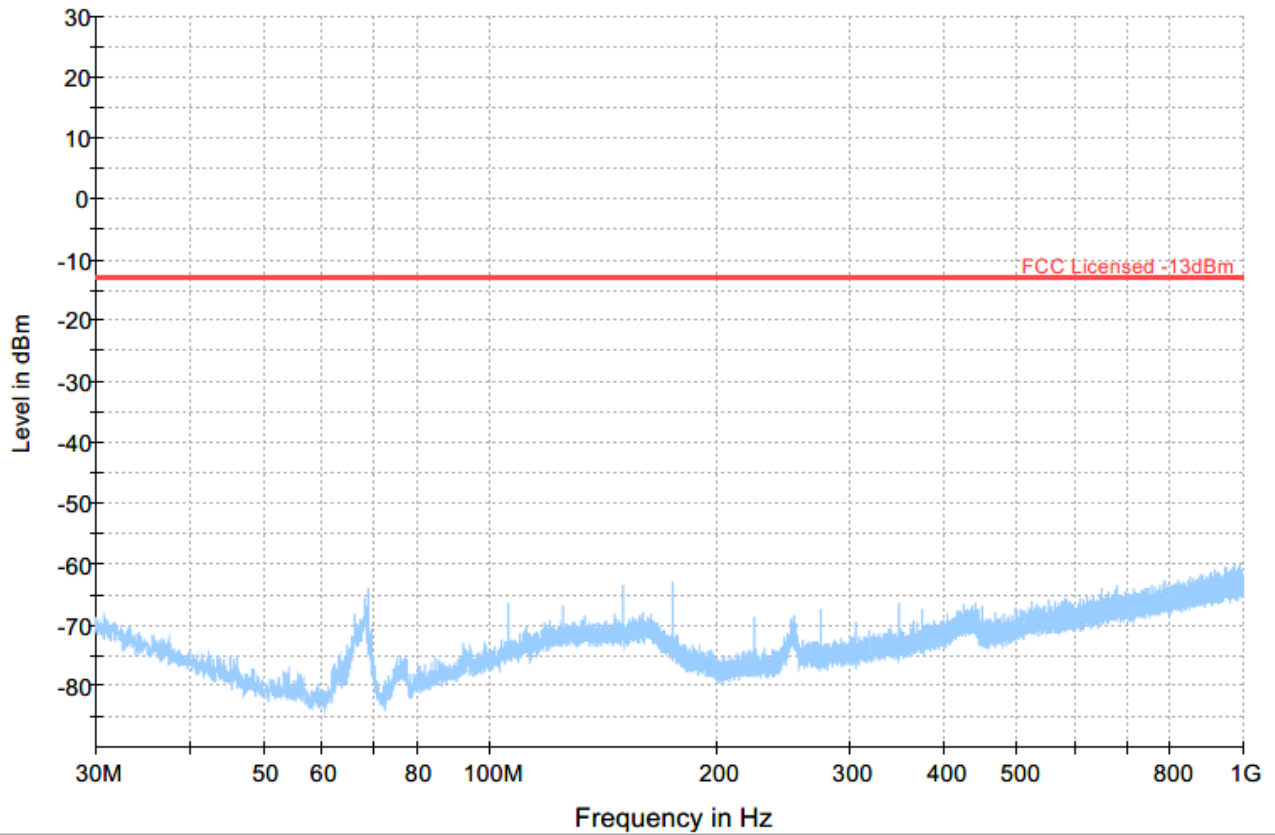
Channel: Mid



Preview Result 1-PK+ * Critical_Freqs PK+ FCC Licensed -13dBm Final_Result RM

Plot #81 Radiated Emissions: 30 MHz – 1 GHz

Channel: High



Preview Result 1-PK+
Final_Result RMS



Critical_Freqs PK+
Final_Result PK+

FCC Licensed -13dBm