



FCC / ISED & Test Report

For:
Nuro

Model:
Camera Aggregator

Product Description:
Host-based automotive Data device

Contains FCC ID: 2A98RDJZCGCA, 2A98RDJZCGWA
Contains IC: 30172-DJZCGCA, 30172-DJZCGWA

Applied Rules and Standards:
47 CFR Parts 22, 24, 27, 90
RSS: 130 Issue 2, 132 Issue 4, 133 Issue 6, 139 Issue 4, 199 Issue 3

REPORT #: EMC_NUROI_006_22001_FCC_22_24_27_90

DATE: 2023-08-14



A2LA Accredited

IC recognized #
3462B

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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 4, RSS-133 issue 6, RSS-139 issue 4 and RSS-199 issue 3.

No deficiencies were ascertained.

Company	Description	Model #
Nuro	Camera aggregator	CGR3

Responsible for Testing Laboratory:

2023-08-14

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Date	Section	Name	Signature
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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:	Arndt Stoecker
Responsible Project Leader:	Rami Saman

2.2 Identification of the Client

Client Firm/Name:	Nuro
Street Address:	1300 Terra Bella Ave #200
City/Zip Code	Mountain View, CA 94043
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:	Camera aggregator
HW Version :	DVT2
SW Version :	3.14
Contains FCC ID :	2A98RDJZCGCA 2A98RDJZCGWA
Contains IC:	30172-DJZCGCA 30172-DJZCGWA
HVIN:	Camera Aggregator
Product Description:	Host-based automotive Data device
Transceiver Technology / Type(s) of Modulation	Cellular Modules Model Name : Quectel Model Number : EG18-NA FCC : XMR202002EG18NA IC : 10224A-20202EG18NA Wireless Technologies W-CDMA (UMTS) FDD: II, IV, V, LTE FDD/TDD Band: 2,4,5,7,12,13,14,25,26,30,41,66,71
Frequency Range	UMTS Band II: 1852.4 – 1907.6 MHz UMTS Band IV: 1712.4 – 1752.6 MHz UMTS Band V: 826.4 – 846.6 MHz LTE Band 2: 1850 – 1910 MHz LTE Band 4: 1710 – 1755 MHz LTE Band 5: 824 – 849 MHz LTE Band 12: 699 – 716 MHz LTE Band 13: 777 – 787 MHz LTE Band 14: 788 – 798 MHz LTE Band 25: 1850– 1915 MHz LTE Band 26: 814 – 849 MHz LTE Band 30: 2305 – 2315 MHz LTE Band 41: 2496 – 2690 MHz LTE Band 66: 1710 – 1780 MHz LTE Band 71: 663 – 698 MHz
Max. declared antenna gain	Manufacturer: Taoglas P/N: MA9906.A.007.dp (6-in-1) & MA9904.A.004.ep (4-in-1) Type: A low-profile heavy duty, fully IP67 waterproof external antenna. Frequency Range: 600 – 6000 MHz Peak Gain (See Table A1 & A2)
Other Radios included in the device:	GPS; WiFi 2.4GHz and WiFi 5GHz

Power Supply/ Rated Operating Voltage Range	12VDC
Operating Temperature Range	Low : 0 °C Norm 45 °C High 65 °C
Sample Revision	☒ Production ☐ Pre-Production

Table A1: 6-in-1 Antennas

Frequency (MHz)	5GNR B71 650-698	LTE 700 698-824	LTE B5_B8 824-960	5GNR 1500 1427-1518	5GNR N66 1710-2200	LTE 2600 2300-2690	5GNR N77 3300-4200	5GNR N78 3300-3800	5GNR N79 4400-5000	LTE 5200 5150-5925
Peak Gain (dBi)										
LTE 1	5.36	4.84	5.29	4.70	5.00	7.54	9.29	6.59	10.45	10.31
LTE 3	3.26	4.71	4.37	3.76	5.08	5.97	5.17	5.17	6.47	6.33
LTE 6	2.54	4.89	5.19	5.60	4.62	5.27	5.85	5.85	7.39	5.78
LTE 8	4.54	4.68	4.51	2.44	5.18	6.39	7.44	6.66	8.30	7.51

Table A2: 4-in-1 Antennas

Frequency (MHz)	5GNR B71 650-698	LTE 700 698-824	LTE B5_B8 824-960	5GNR 1500 1427-1518	5GNR N66 1710-2200	LTE 2600 2300-2690	5GNR N77 3300-4200	5GNR N78 3300-3800	5GNR N79 4400-5000	LTE 5200 5150-5925
Peak Gain (dBi)										
LTE 1	5.09	4.39	4.91	4.54	5.11	4.29	5.98	4.97	6.30	5.89
LTE 3	2.99	4.65	3.87	3.23	5.92	6.19	4.62	4.62	4.65	4.75
LTE 6	3.04	3.61	3.66	3.61	4.71	4.53	4.90	4.90	4.72	5.52
LTE 8	3.69	3.82	3.53	2.30	6.09	6.26	5.52	4.06	5.63	4.11

3.1 EUT details

EUT #	Model Number	HW Version	SW Version	Comments
1	Camera Aggregator	DVT2	3.14	N/A

3.2 Accessory Equipment (AE) details

AE #	Type	Model	Manufacturer	Serial Number
1	GPS Antenna	AA180	Taoglas	180TT18021264
2	Camera #1	40640G032-6PHS2	FLIR	0139786
3	Camera #2	40640G032-6PHS2	FLIR	0139789
4	Camera #3	40640G032-6PHS2	FLIR	0138908
5	Camera #4	60-056989-01	FLIR	200-2149-000168
6	Camera #5	60-056989-01	FLIR	200-2149-000137
7	100/1000 BASE-T1 Media Converter	TE-1401-1	Technica Engineering	210110120 164
8	100/1000 BASE-T1 Media Converter	TE-1401-1	Technica Engineering	210510120 056
9	LiDAR Sensor	Pandar40P	Hesai	N/A

3.3 Support Equipment (SE) details

SE #	Type	Model	Manufacturer	Serial Number
1	Notebook	XPS	DELL	785N0J3
2	Notebook	XPS	DELL	6D27GB3

3.4 Test Sample Configuration

Set-up #	EUT / AE used for set-up	Comments
1	EUT#1+(AE 1,2,3,4,5,6,7,8,9)	The radio of the EUT was configured to a fixed channel transmission with highest possible duty cycle using software that is not available to the end user.

3.5 Mode of Operation details

Mode of Operation	Description of Operating modes	Additional Information
Op. 1	Cellular + WiFi	Cellular was tested on Mid Channels at maximum power in a co-transmission mode WiFi radio was configured to 802.11b 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 radio 802.11b Mid channel, 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 Industry Canada Standards RSS-GEN issue 3, RSS-130 issue 2, RSS-132 issue 4, RSS-133 issue 6, RSS-139 issue 4 and RSS-199 issue 3.

4.1 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 1	EMC 2
Conducted emissions (mains port)		1.12 dB	0.46 dB
Radiated emissions	(< 30 MHz)	3.66 dB	3.88 dB
	(30 MHz – 1GHz)	3.17 dB	3.34 dB
	(1 GHz – 3 GHz)	5.01 dB	4.45 dB
	(>3 GHz)	4.0 dB	4.79 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.

4.2 Environmental Conditions During Testing:

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

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

4.3 Dates of Testing:

2023-03-01 – 2023-05-08

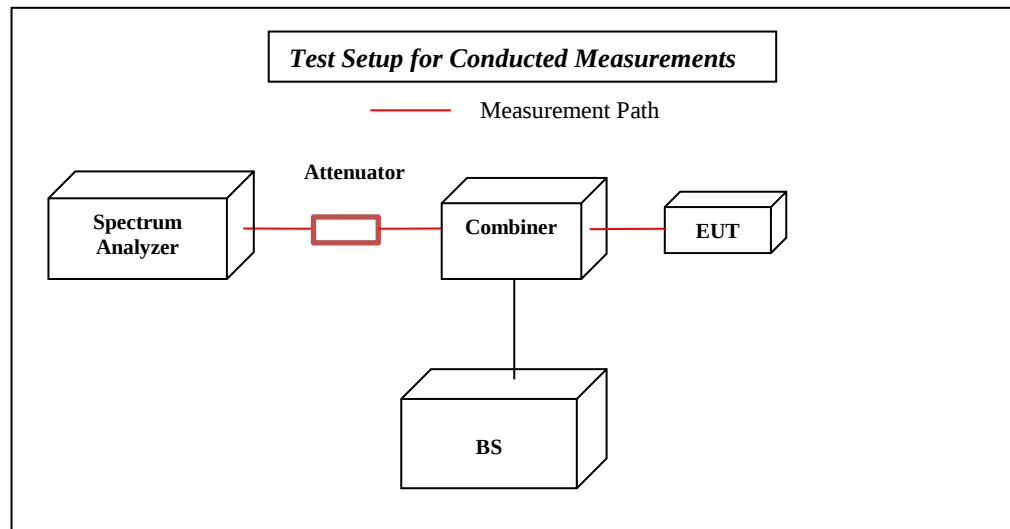
4.4 Decision Rule:

Cetecom advanced follows ILAC G8:2019 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.

5 Measurement Procedures

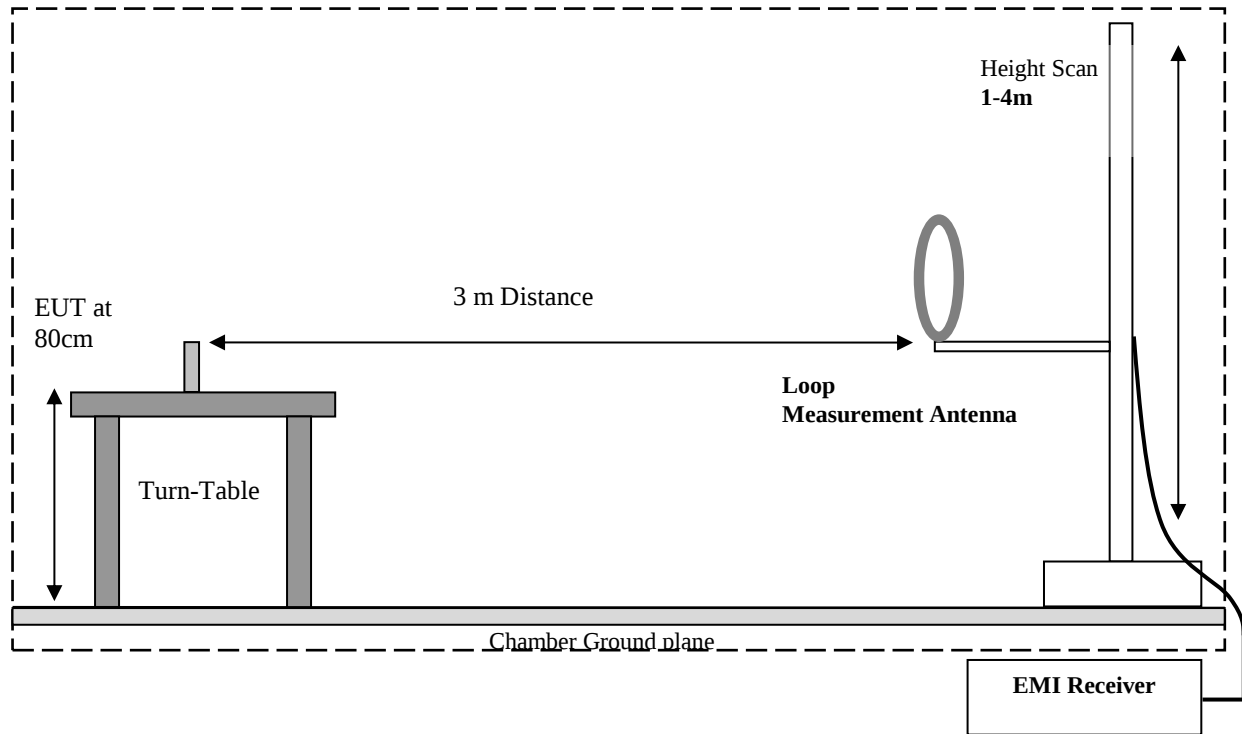
Testing is performed according to the guidelines provided in FCC publication (KDB) 971168 D01 v03r01 – “Measurement Guidance for Certification of Licensed Digital Transmitters” and according to relevant parts of ANSI/TIA-603-D-2010 as detailed below.



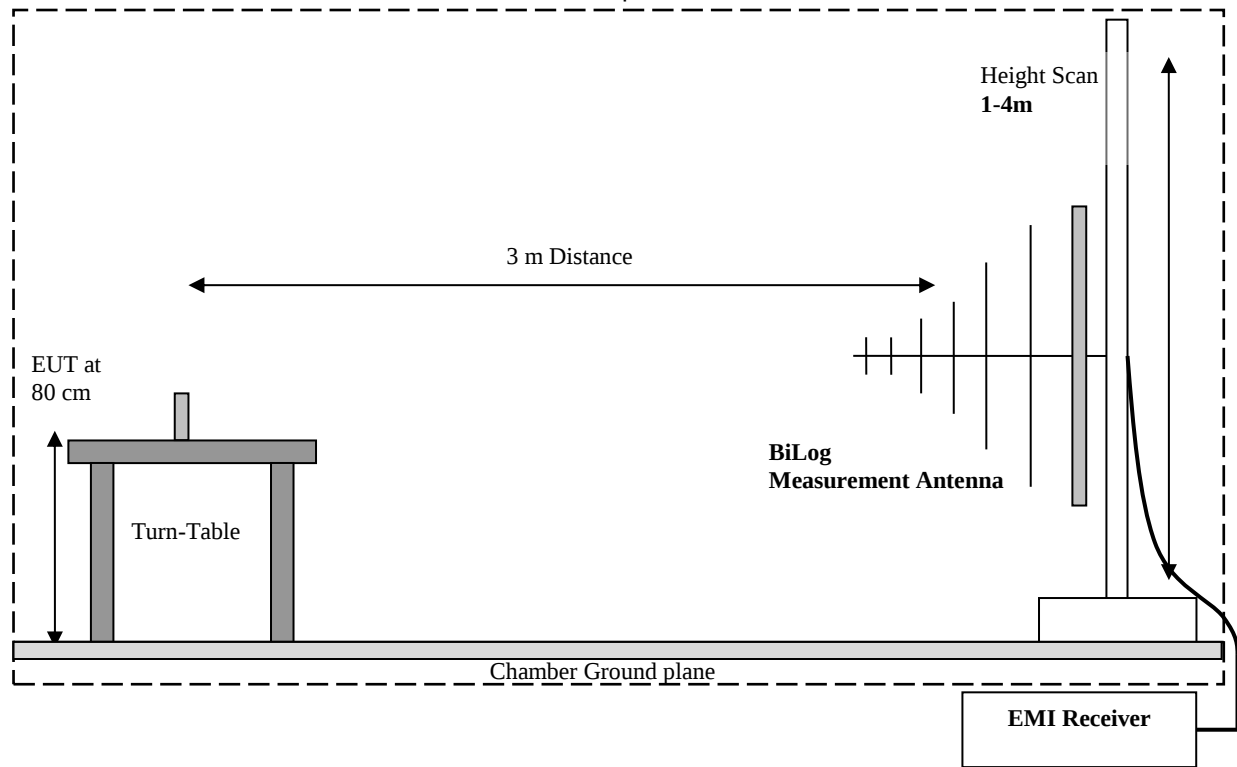
5.1 Radiated Measurement

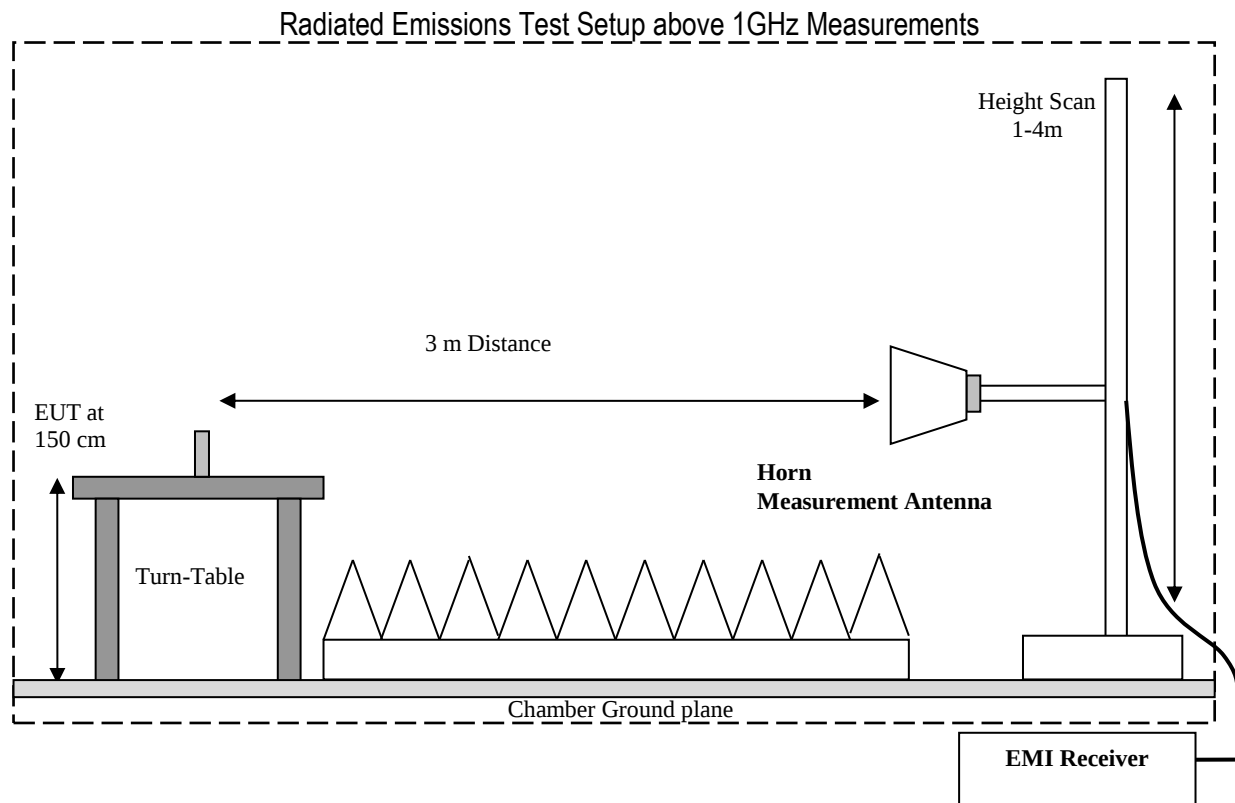
- The exploratory measurement is accomplished by running a matrix of 16 sweeps over the required frequency range with R&S Test-SW EMC32 for 4 positions of the turntable, two orthogonal positions of the EUT and both antenna polarizations. This procedure exceeds the requirement of the above standards to 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, 90 / 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	Op. 1	■	□	□	□	Complies Note 3, 4
§2.1055; §22.355	Frequency Tolerance	Extreme Temperature and Voltage	-	□	□	□	■	See Note 1,5
§2.1049; §22.917	Occupied Bandwidth	Nominal	-	□	□	□	■	See Note 1,6
§2.1051; §22.917	Band Edge Compliance	Nominal	-	□	□	□	■	See Note 1,7
§2.1051; §22.917	Conducted Spurious Emissions	Nominal	-	□	□	□	■	See Note 1,2
§2.1053; §22.917	Radiated Spurious Emissions	Nominal	Op. 1	■	□	□	□	Complies

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

Note 2: This device does not connect to AC mains network

Note 3: Power verification testing was conducted only on middle channel.

Note 4: Leveraged from report # FG9N1414A, Section 3.4 & FG9N1414B, Section 3.4 (FCC ID: XMR202002EG18NA)

Note 5: Leveraged from report # FG9N1414A, Section 3.9 & FG9N1414B, Section 3.9 (FCC ID: XMR202002EG18NA)

Note 6: Leveraged from report # FG9N1414A, Section 3.6 & FG9N1414B, Section 3.6 (FCC ID: XMR202002EG18NA)

Note 7: Leveraged from report # FG9N1414A, Section 3.7 & FG9N1414B, Section 3.7 (FCC ID: XMR202002EG18NA)

6.2 Part 24 / RSS-133,199

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§2.1046; §24.232 (a)	RF Output Power	Nominal	Op. 1	■	□	□	□	Complies Note 3,4
§2.1055; §24.235	Frequency Stability	Extreme Temperature and Voltage	-	□	□	□	■	Complies Note 1, 5
§2.1049; §24.238	Occupied Bandwidth	Nominal	-	□	□	□	■	Complies Note 1, 6
§2.1051; §24.238	Band Edge Compliance	Nominal	-	□	□	□	■	Complies Note 1, 7
§2.1051; §24.238	Conducted Spurious Emissions	Nominal	-	□	□	□	■	Complies Note 1, 2
§2.1053; §24.238	Radiated Spurious Emissions	Nominal	Op. 1	■	□	□	□	Complies

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

Note 2: This device does not connect to AC mains network

Note 3: Power verification testing was conducted only on middle channel.

Note 4: Leveraged from report # FG9N1414A, Section 3.4 & FG9N1414B, Section 3.4 (FCC ID: XMR202002EG18NA)

Note 5: Leveraged from report # FG9N1414A, Section 3.9 & FG9N1414B, Section 3.9 (FCC ID: XMR202002EG18NA)

Note 6: Leveraged from report # FG9N1414A, Section 3.6 & FG9N1414B, Section 3.6 (FCC ID: XMR202002EG18NA)

Note 7: Leveraged from report # FG9N1414A, Section 3.7 & FG9N1414B, Section 3.7 (FCC ID: XMR202002EG18NA)

6.3 FCC 27, 90 / RSS-130, 139

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§2.1046; §27.50	RF Output Power	Nominal	Op. 1	■	□	□	□	Complies Note 3, 4
§2.1055; §27.54	Frequency Stability	Extreme Temperature and Voltage	-	□	□	□	■	Complies Note 1, 5
§2.1049; §27.53	Occupied Bandwidth	Nominal	-	□	□	□	■	Complies Note 1, 6
§2.1051; §27.53	Band Edge Compliance	Nominal	-	□	□	□	■	Complies Note 1, 7
§2.1051; §27.53	Conducted Spurious Emissions	Nominal	-	□	□	□	■	Complies Note 1, 2
§2.1053; §27.53	Radiated Spurious Emissions	Nominal	Op. 1	■	□	□	□	Complies

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

Note 2: This device does not connect to AC mains network

Note 3: Power verification testing was conducted only on middle channel.

Note 4: Leveraged from report # FG9N1414, Section 3.1, FG9N1414A, Section 3.4, FG9N1414B, Section 3.4, FG9N1414C, Section 3.4 & FG9N1414D, Section 3.2 (FCC ID: XMR202002EG18NA)

Note 5: Leveraged from report # FG9N1414, Section 3.6, FG9N1414A, Section 3.9, FG9N1414B, Section 3.9, FG9N1414C, Section 3.10 & FG9N1414D, Section 3.8 (FCC ID: XMR202002EG18NA)

Note 6: Leveraged from report # FG9N1414, Section 3.2, FG9N1414A, Section 3.6, FG9N1414B, Section 3.6, FG9N1414C, Section 3.7 & FG9N1414D, Section 3.4 (FCC ID: XMR202002EG18NA)

Note 7: Leveraged from report # FG9N1414, Section 3.4, FG9N1414A, Section 3.7, FG9N1414B, Section 3.7, FG9N1414C, Section 3.8 & FG9N1414D, Section 3.5 (FCC ID: XMR202002EG18NA)

7 Test Result Data

7.1 Output Power Verification Measurement according to ANSI C63.26-2015

All Bands conducted average power is obtained from the CMW500 telecommunication test set.

The following UE Power Classes define the maximum output power for any transmission bandwidth within the channel bandwidth for non-CA configuration unless otherwise stated. The period of measurement shall be at least as defined in Table 6.2.2-0 of the 3GPP TS136.101

Table 6.2.2-0: Measurement period for UE maximum output power

TTI pattern	Minimum measurement period
Subframe	1ms
Slot	70S
Subslot	20S, 30S

7.1.1 Test conditions and setup:

Ambient Temperature	EUT Set-Up #	EUT operating mode	Power Input	Antenna Gain
20.9° C	1	Op.1	12 VDC	See Table A1 & A2

7.1.2 Measurement result:

Radio / Band	Frequency (MHz)	Conducted Output Power (Average power) (dBm)			
		A0 (dBm)	A1 (dBm)	B0 (dBm)	B1 (dBm)
UMTS V	836.50	23.10	23.20	23.10	23.30
UMTS IV	1732.50	23.04	24.00	23.13	23.27
UMTS II	1880.00	22.97	23.97	22.92	23.03
LTE 2	1880.00	22.20	22.48	22.38	22.39
LTE 4	1732.50	22.25	22.81	22.60	22.70
LTE 5	836.50	22.63	22.88	22.59	22.78
LTE 12	707.50	22.63	21.80	22.60	22.82
LTE 13	782.00	22.42	22.67	22.53	22.60
LTE 14	793.00	22.60	22.65	22.52	22.67
LTE 7	2535.00	22.18	22.54	22.28	22.22
LTE 25	1882.50	22.19	22.41	22.34	22.30
LTE 26	831.50	22.33	22.94	22.65	22.92
LTE 29	Downlink only				
LTE 41	2593.00	22.30	22.52	22.20	22.03
LTE 66	1745.00	22.42	22.75	22.58	22.60
LTE 71	680.50	22.13	22.40	22.10	22.30

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-D-2010

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-132 Part 5.5; RSS-133 Part 6.5; RSS-139 Part 6.6 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.

7.2.3 Test conditions and setup:

Ambient Temperature	EUT Set-Up #	EUT operating mode	Power Input
20.9° C	1	Op.1	12 VDC

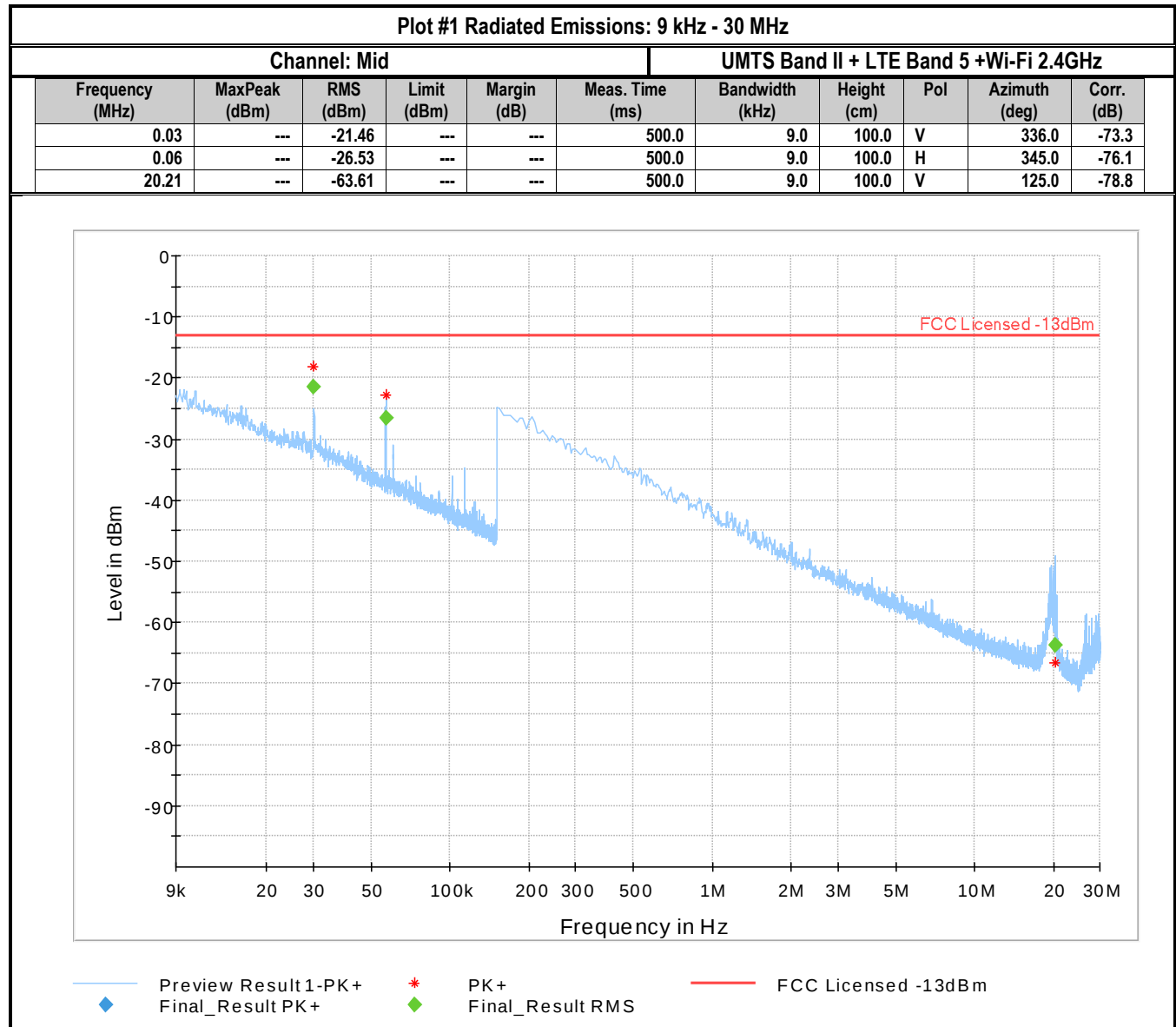
7.2.4 Measurement result for 6-in1 Antennas.

Plot #	Channel	Cellular A0+A1 operating with Wi-Fi 802.11b mode Mid Ch.		Scan Frequency	Limit (dBm)	Result
		A0	A1			
1-5	Mid	UMTS Band II	LTE Band 5	9 kHz – 26 GHz	-13	Pass
6-10	Mid	UMTS Band IV	UMTS Band 5	9 kHz – 30 GHz	-13	Pass
11-14	Mid	UMTS Band V	LTE Band 2	9 kHz – 9 GHz	-13	Pass
15-19	Mid	LTE Band 2	LTE Band 5	9 kHz – 30 GHz	-13	Pass
20-24	Mid	LTE Band 4	LTE Band 7	9 kHz – 30 GHz	-13	Pass
25-28	Mid	LTE Band 5	LTE Band 7	9 kHz – 9 GHz	-13	Pass
29-33	Mid	LTE Band 7	LTE Band 2	9 kHz – 30 GHz	-13	Pass
34-37	Mid	LTE Band 12	UMTS Band II	9 kHz – 18 GHz	-13	Pass
38-41	Mid	LTE Band 13	LTE Band 71	9 kHz – 18 GHz	-13	Pass
42-45	Mid	LTE Band 14	LTE Band 26	9 kHz – 18 GHz	-13	Pass
46-50	Mid	LTE Band 25	LTE Band 4	9 kHz – 30 GHz	-13	Pass
51-54	Mid	LTE Band 26	LTE Band 41	9 kHz – 18 GHz	-13	Pass
55-59	Mid	LTE Band 66	LTE Band 7	9 kHz – 30 GHz	-13	Pass
60-63	Mid	LTE Band 71	LTE Band 12	9 kHz – 18 GHz	-13	Pass
64-68	Mid	LTE Band 41	LTE Band 13	9 kHz – 30 GHz	-13	Pass

7.2.5 Measurement result for 4-in1 Antennas.

Plot #	Channel	Cellular B0+B1 operating with Wi-Fi 802.11b mode Mid Ch.		Scan Frequency	Limit (dBm)	Result
		B0	B1			
69-71	Mid	UMTS Band II	LTE Band 5	30 MHz – 18 GHz	-13	Pass
72-74	Mid	UMTS Band IV	UMTS Band 5	30 MHz – 18 GHz	-13	Pass
75-77	Mid	UMTS Band V	LTE Band 2	30 MHz – 18 GHz	-13	Pass
78-80	Mid	LTE Band 2	LTE Band 5	30 MHz – 18 GHz	-13	Pass
81-83	Mid	LTE Band 4	LTE Band 7	30 MHz – 18 GHz	-13	Pass
84-86	Mid	LTE Band 5	LTE Band 7	30 MHz – 18 GHz	-13	Pass
87-89	Mid	LTE Band 7	LTE Band 2	30 MHz – 18 GHz	-13	Pass
90-92	Mid	LTE Band 12	UMTS Band II	30 MHz – 18 GHz	-13	Pass
93-95	Mid	LTE Band 13	LTE Band 71	30 MHz – 18 GHz	-13	Pass
96-98	Mid	LTE Band 14	LTE Band 26	30 MHz – 18 GHz	-13	Pass
99-101	Mid	LTE Band 25	LTE Band 4	30 MHz – 18 GHz	-13	Pass
102-104	Mid	LTE Band 26	LTE Band 41	30 MHz – 18 GHz	-13	Pass
105-107	Mid	LTE Band 66	LTE Band 7	30 MHz – 18 GHz	-13	Pass
108-110	Mid	LTE Band 71	LTE Band 12	30 MHz – 18 GHz	-13	Pass
111-113	Mid	LTE Band 41	LTE Band 13	30 MHz – 18 GHz	-13	Pass

7.2.6 Measurement Plots:

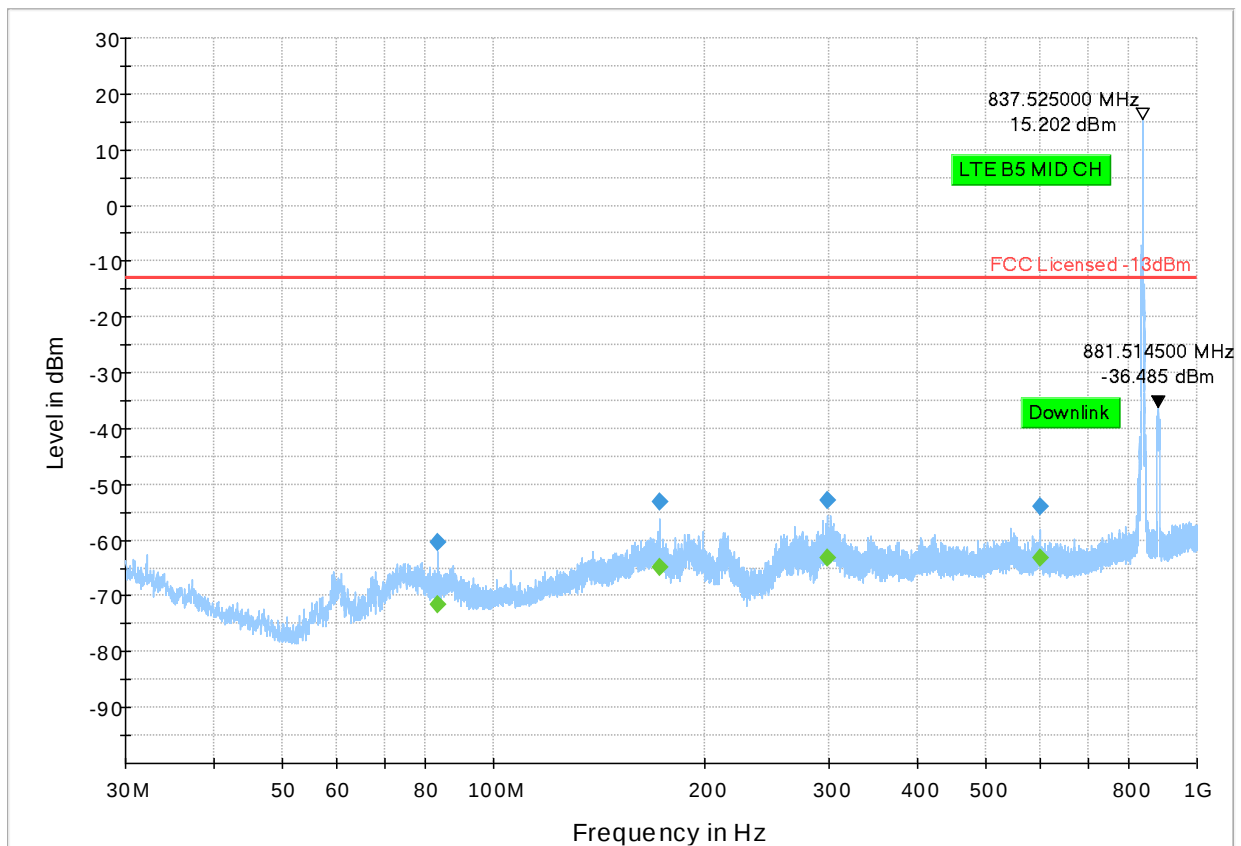


Plot #2 Radiated Emissions: 30 MHz - 1 GHz

Channel: Mid

UMTS Band II + LTE Band 5 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
83.47	---	-71.54	---	---	500.0	120.0	116.0	V	142.0	-79.3
83.47	-60.45	---	-13.00	47.45	500.0	120.0	116.0	V	142.0	-79.3
172.27	-53.12	---	-13.00	40.12	500.0	120.0	100.0	V	46.0	-71.1
172.27	---	-64.71	---	---	500.0	120.0	100.0	V	46.0	-71.1
298.08	---	-63.22	---	---	500.0	120.0	100.0	H	168.0	-74.0
298.08	-52.90	---	-13.00	39.90	500.0	120.0	100.0	H	168.0	-74.0
599.97	-53.85	---	-13.00	40.85	500.0	120.0	100.0	H	241.0	-67.3
599.97	---	-63.09	---	---	500.0	120.0	100.0	H	241.0	-67.3



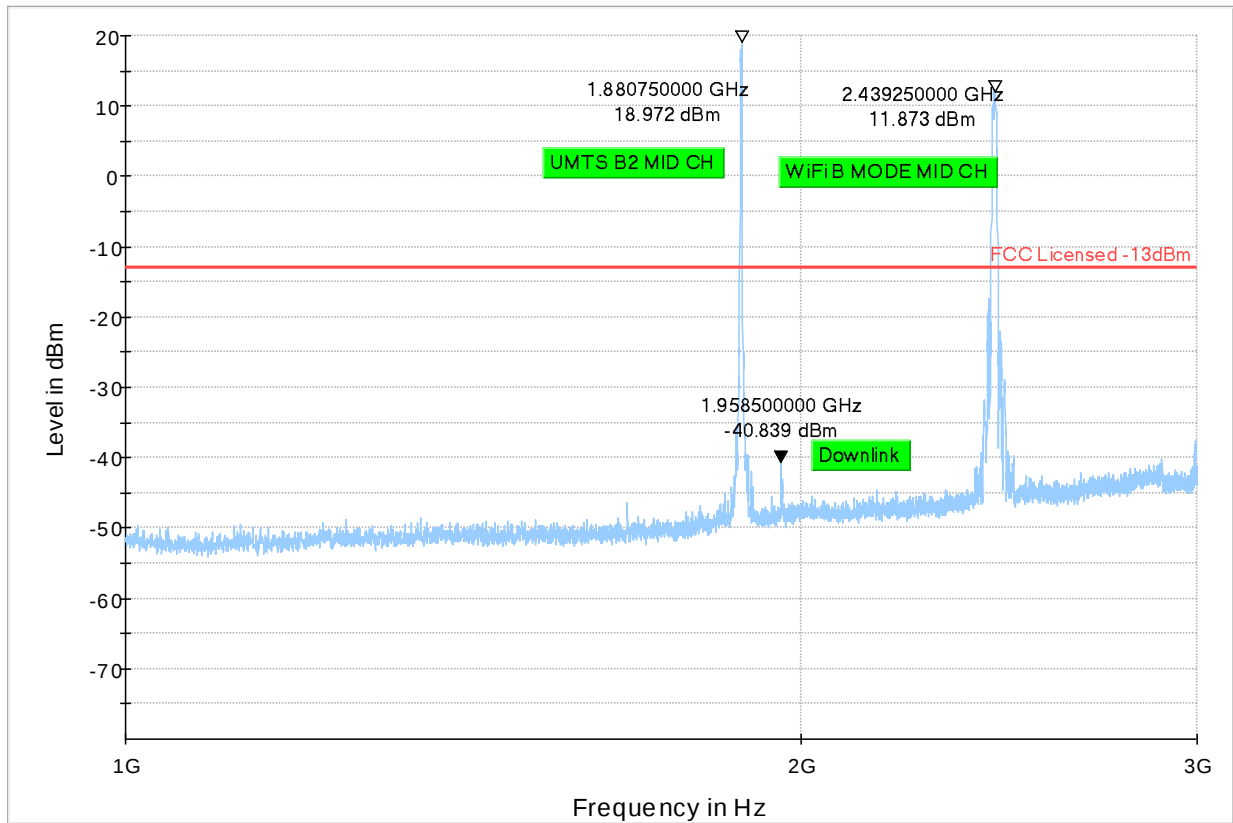
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #3 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid

UMTS Band II + LTE Band 5 +Wi-Fi 2.4GHz

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



Preview Result 1-PK+
Final_Result PK+

* Critical_Freqs PK+
◆ Final_Result RMS

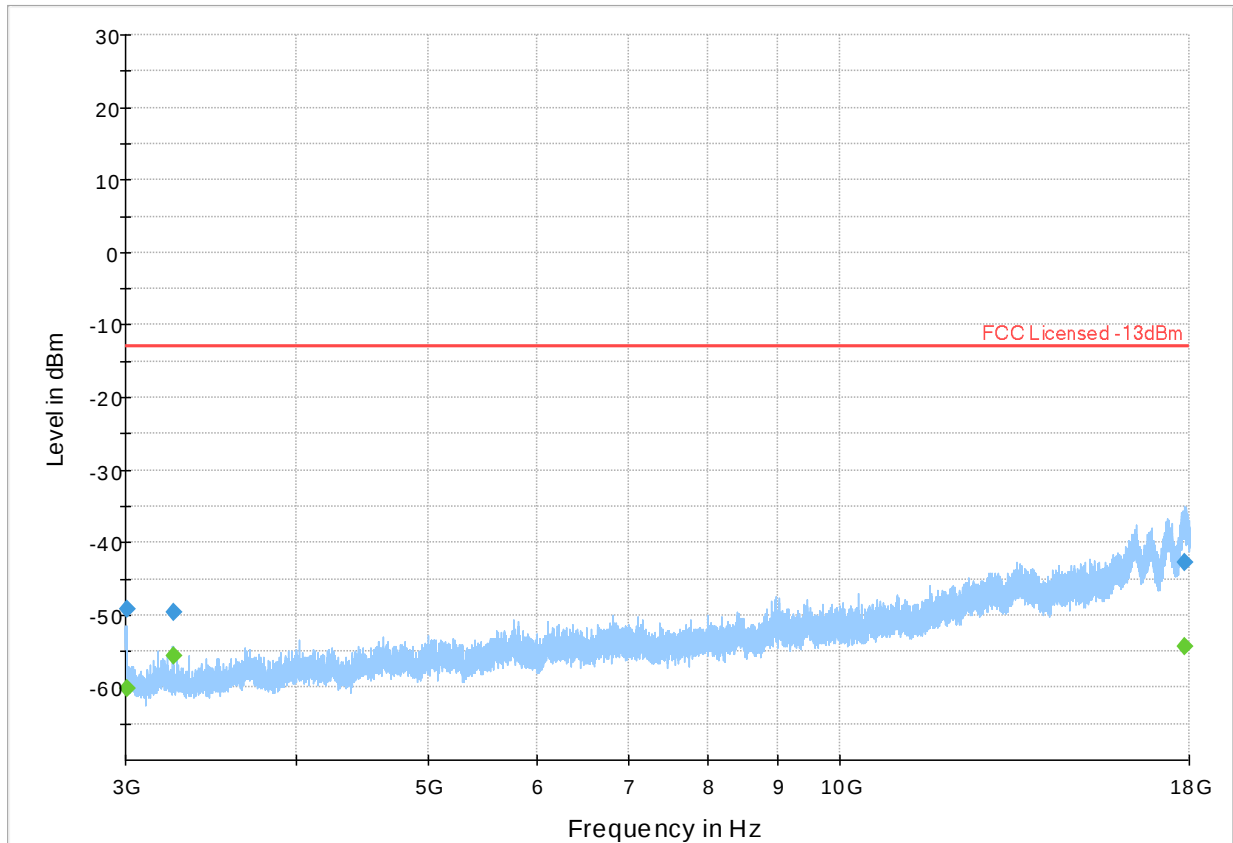
FCC Licensed -13dBm

Plot #4 Radiated Emissions: 3 GHz - 18 GHz

Channel: Mid

UMTS Band II + LTE Band 5 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3006.25	---	-60.05	---	---	500.0	1000.0	158.0	H	41.0	-103.0
3006.25	-49.28	---	-13.00	36.28	500.0	1000.0	158.0	H	41.0	-103.0
3249.25	---	-55.57	---	---	500.0	1000.0	143.0	H	46.0	-102.9
3249.25	-49.65	---	-13.00	36.65	500.0	1000.0	143.0	H	46.0	-102.9
17853.50	---	-54.44	---	---	500.0	1000.0	177.0	H	148.0	-77.2
17853.50	-42.83	---	-13.00	29.83	500.0	1000.0	177.0	H	148.0	-77.2



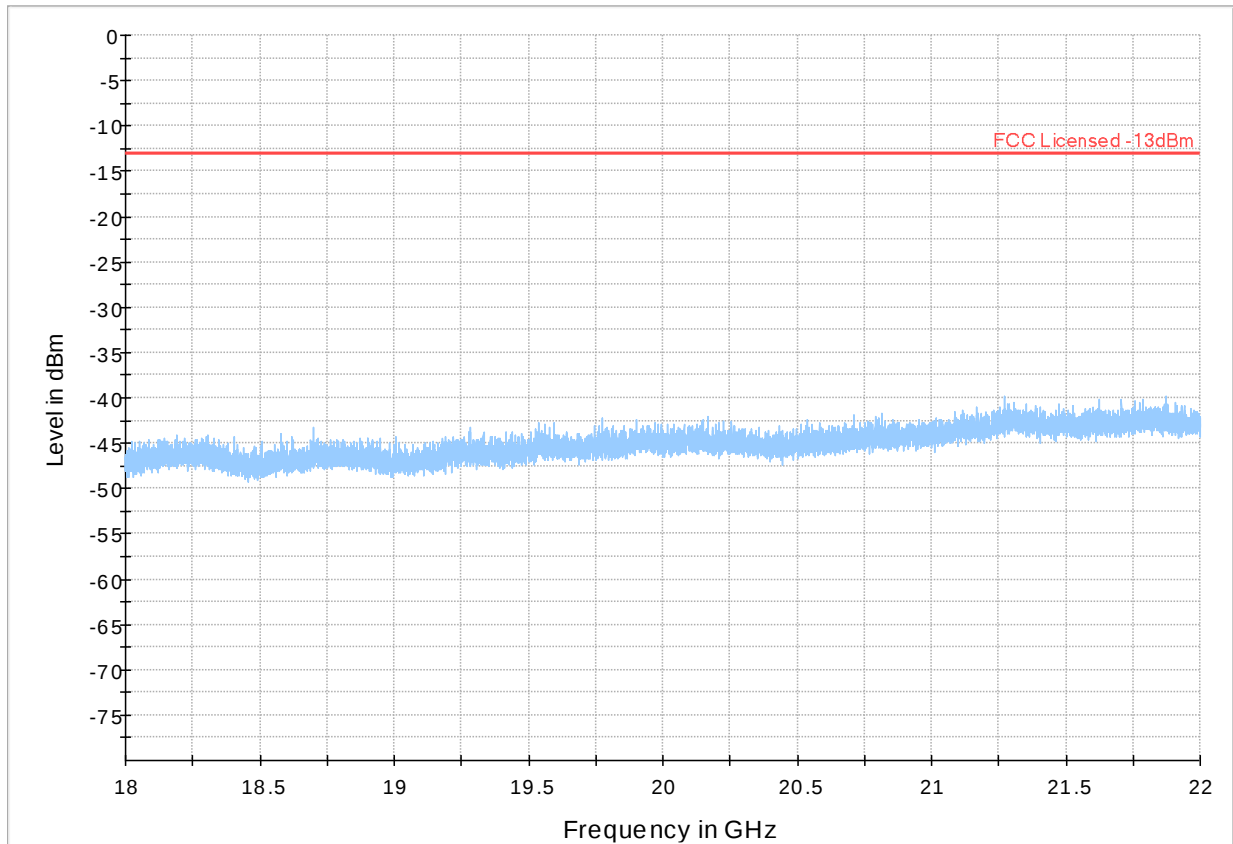
Preview Result1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #5 Radiated Emissions: 18 GHz - 26 GHz

Channel: Mid

UMTS Band II + LTE Band 5 +Wi-Fi 2.4GHz

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



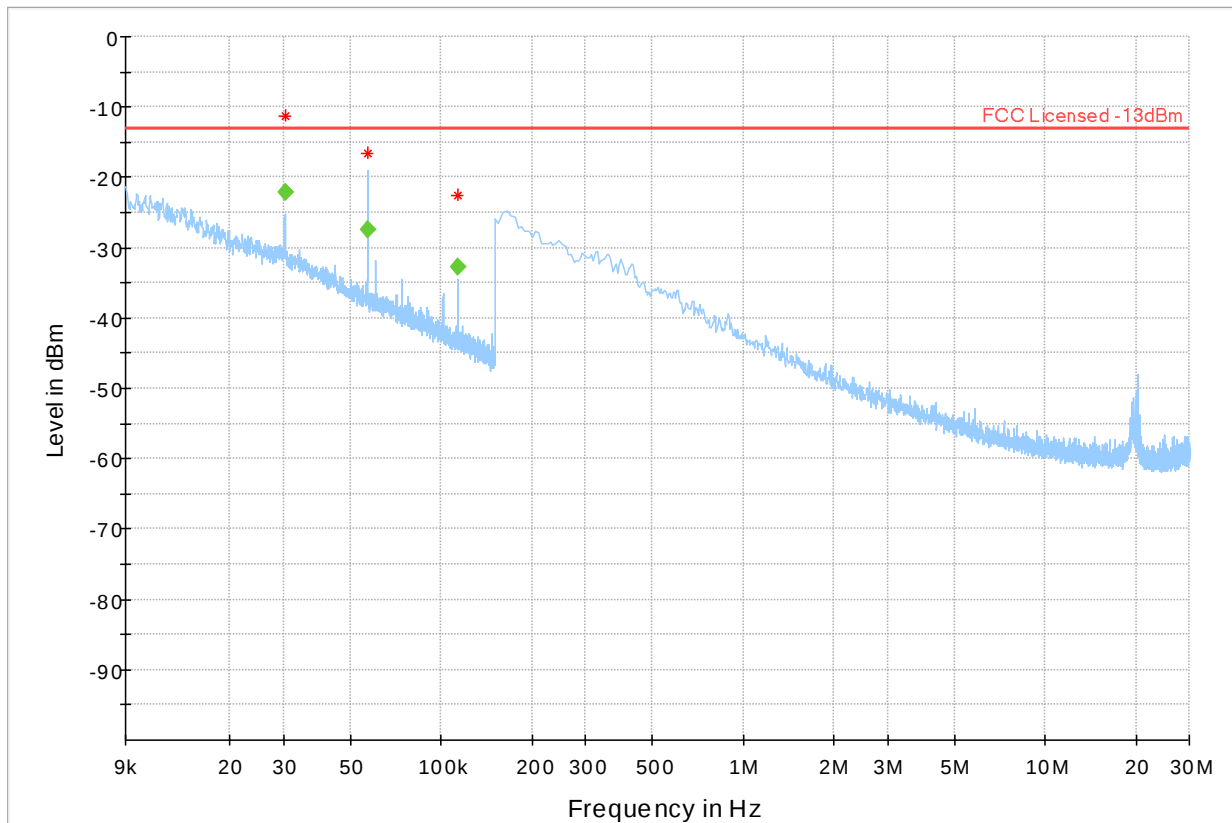
Preview Result1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #6 Radiated Emissions: 9 kHz - 30 MHz

Channel: Mid

UMTS Band IV + UMTS Band 5 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.03	---	-22.15	---	---	500.0	9.0	120.0	V	345.0	-73.3
0.06	---	-27.40	---	---	500.0	9.0	125.0	H	316.0	-76.1
0.11	---	-32.74	---	---	500.0	9.0	117.0	H	268.0	-76.9



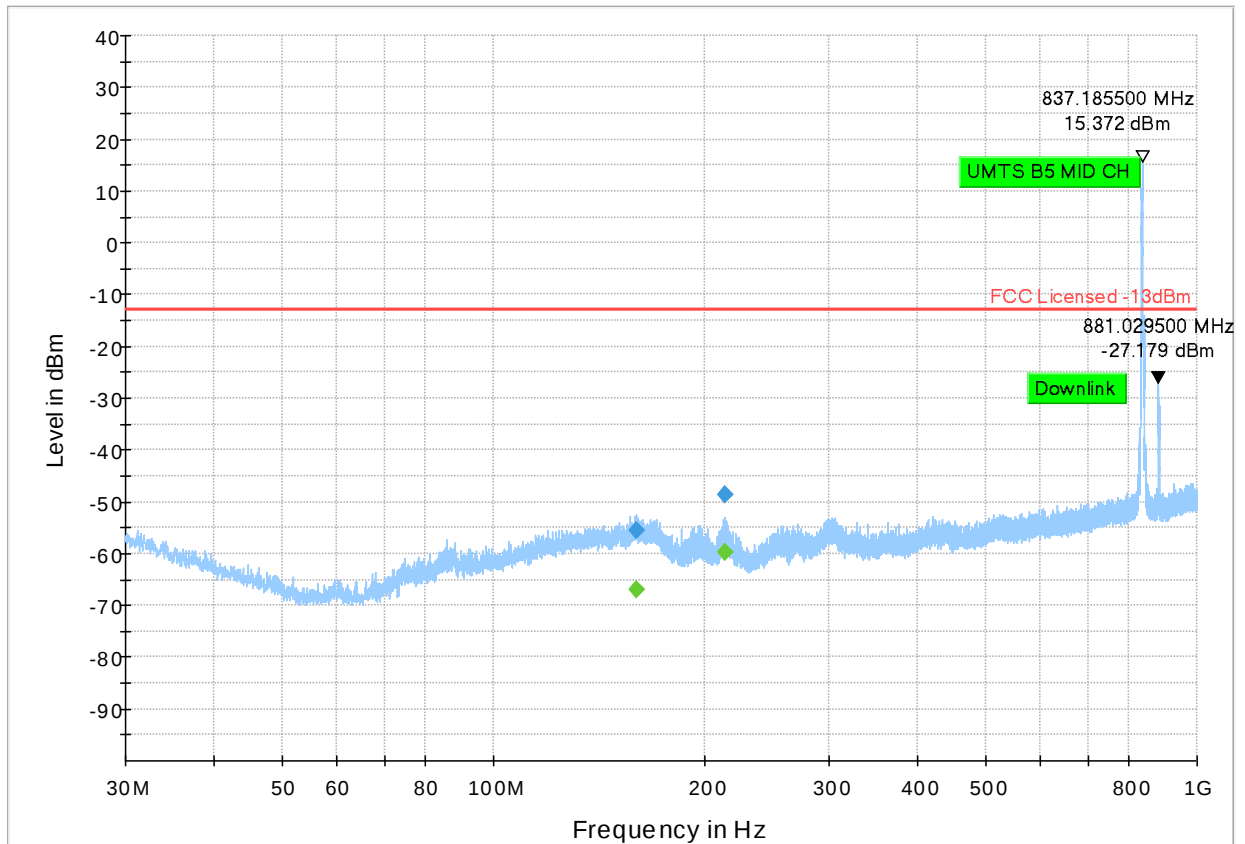
Preview Result1-PK+ * PK+ FCC Licensed -13dBm
Final_Result PK+ Final_Result RMS

Plot #7 Radiated Emissions: 30 MHz - 1 GHz

Channel: Mid

UMTS Band IV + UMTS Band 5 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
159.93	---	-66.89	---	---	500.0	100.0	107.0	V	-55.0	-68.9
159.93	-55.47	---	-13.00	42.47	500.0	100.0	107.0	V	-55.0	-68.9
213.79	---	-59.76	---	---	500.0	100.0	117.0	V	101.0	-76.4
213.79	-48.67	---	-13.00	35.67	500.0	100.0	117.0	V	101.0	-76.4



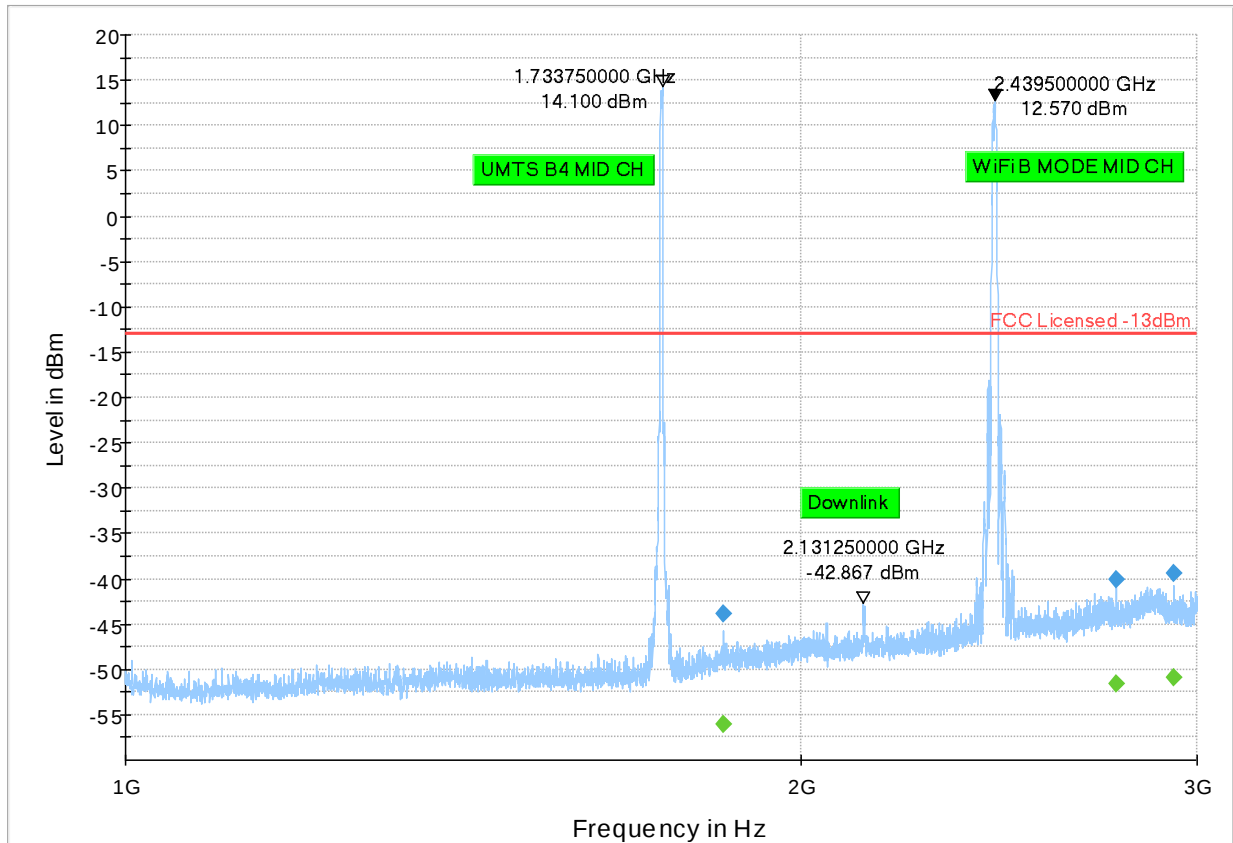
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #8 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid

UMTS Band IV + UMTS Band 5 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1845.50	---	-56.03	---	---	500.0	1000.0	151.0	V	-27.0	-64.3
1845.50	-43.88	---	-13.00	30.88	500.0	1000.0	151.0	V	-27.0	-64.3
2763.25	---	-51.57	---	---	500.0	1000.0	167.0	V	122.0	-61.2
2763.25	-40.01	---	-13.00	27.01	500.0	1000.0	167.0	V	122.0	-61.2
2928.75	---	-50.88	---	---	500.0	1000.0	316.0	V	164.0	-60.3
2928.75	-39.37	---	-13.00	26.37	500.0	1000.0	316.0	V	164.0	-60.3



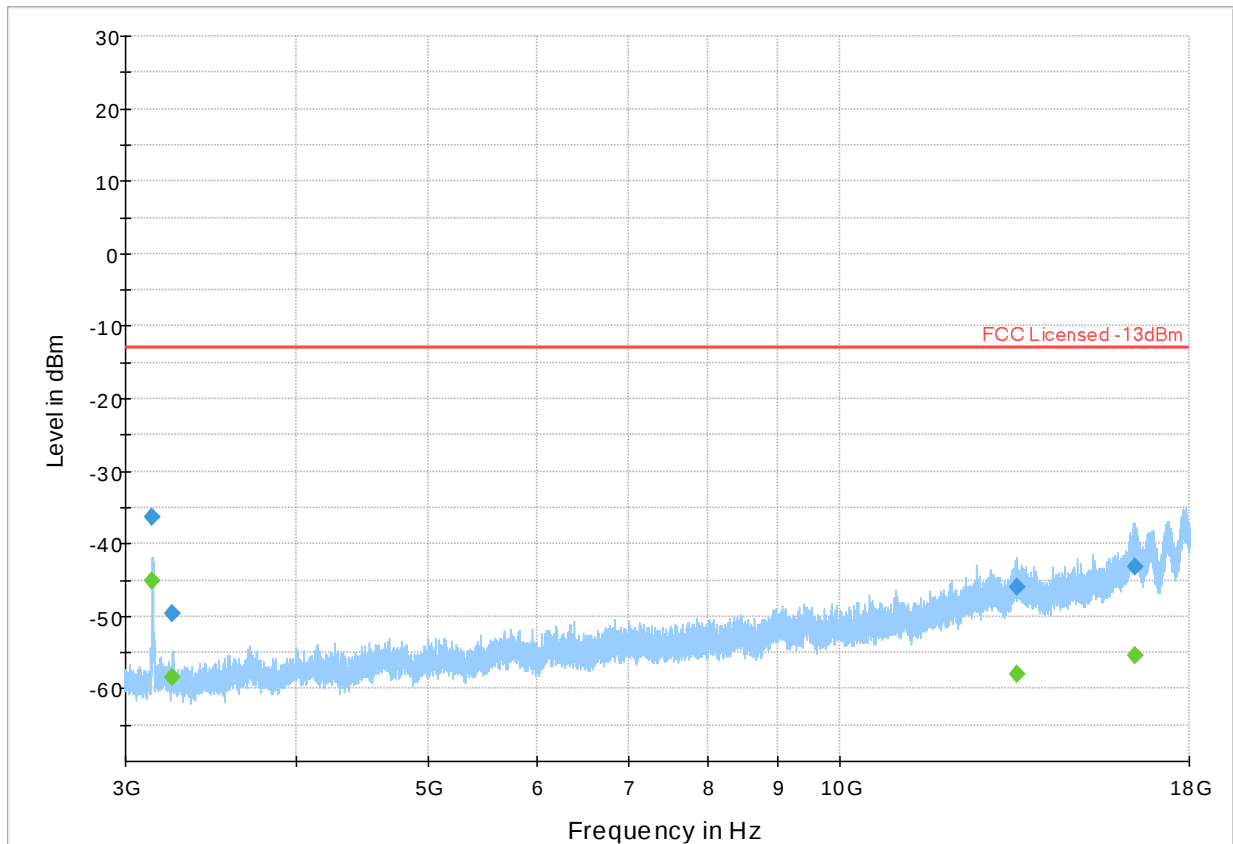
Preview Result1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #9 Radiated Emissions: 3 GHz - 18 GHz

Channel: Mid

UMTS Band IV + UMTS Band 5 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3140.50	---	-45.08	---	---	500.0	1000.0	269.0	H	22.0	-103.1
3140.50	-36.28	---	-13.00	23.28	500.0	1000.0	269.0	H	22.0	-103.1
3249.00	---	-58.36	---	---	500.0	1000.0	142.0	H	45.0	-102.8
3249.00	-49.55	---	-13.00	36.55	500.0	1000.0	142.0	H	45.0	-102.8
13472.25	---	-58.05	---	---	500.0	1000.0	100.0	H	109.0	-85.9
13472.25	-46.07	---	-13.00	33.07	500.0	1000.0	100.0	H	109.0	-85.9
16422.75	---	-55.51	---	---	500.0	1000.0	289.0	H	347.0	-81.4
16422.75	-43.25	---	-13.00	30.25	500.0	1000.0	289.0	H	347.0	-81.4



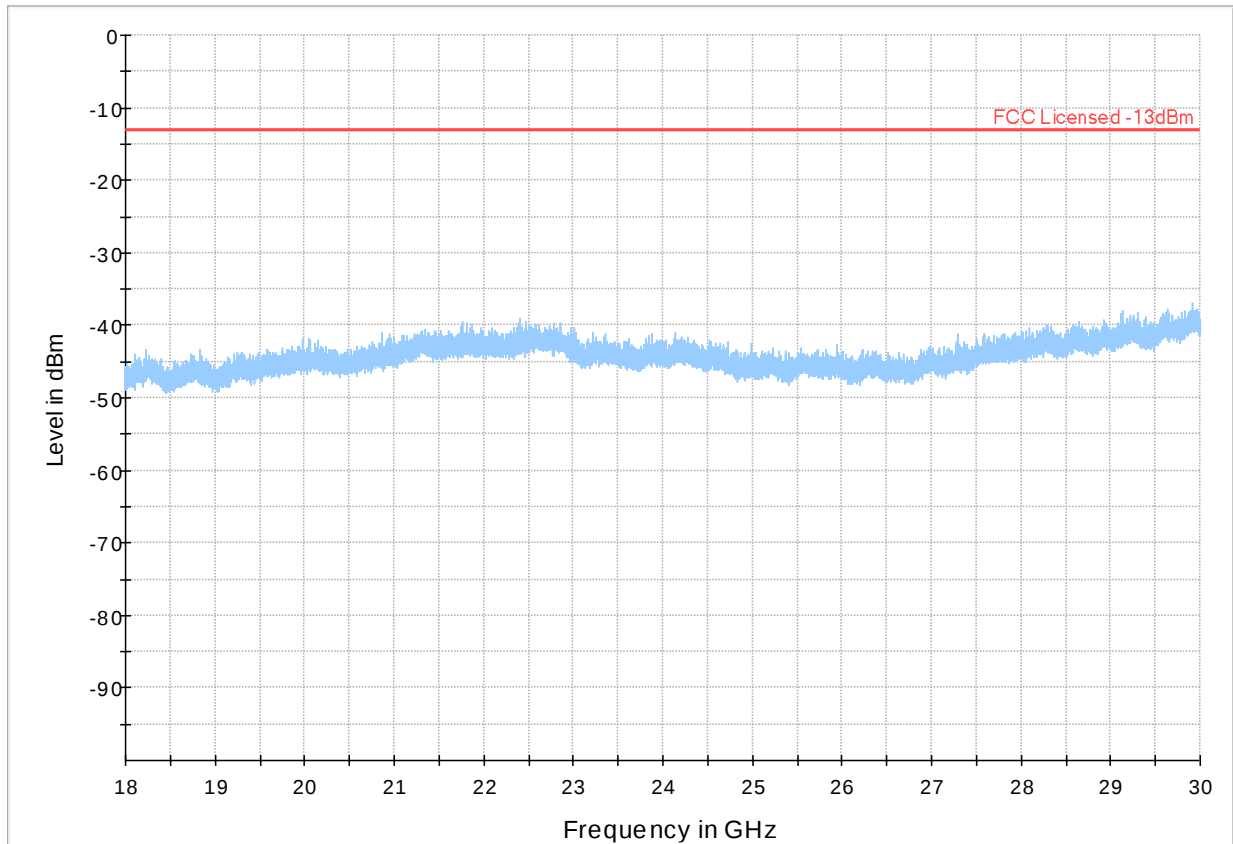
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #10 Radiated Emissions: 18 GHz - 30 GHz

Channel: Mid

UMTS Band IV + UMTS Band 5 +Wi-Fi 2.4GHz

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



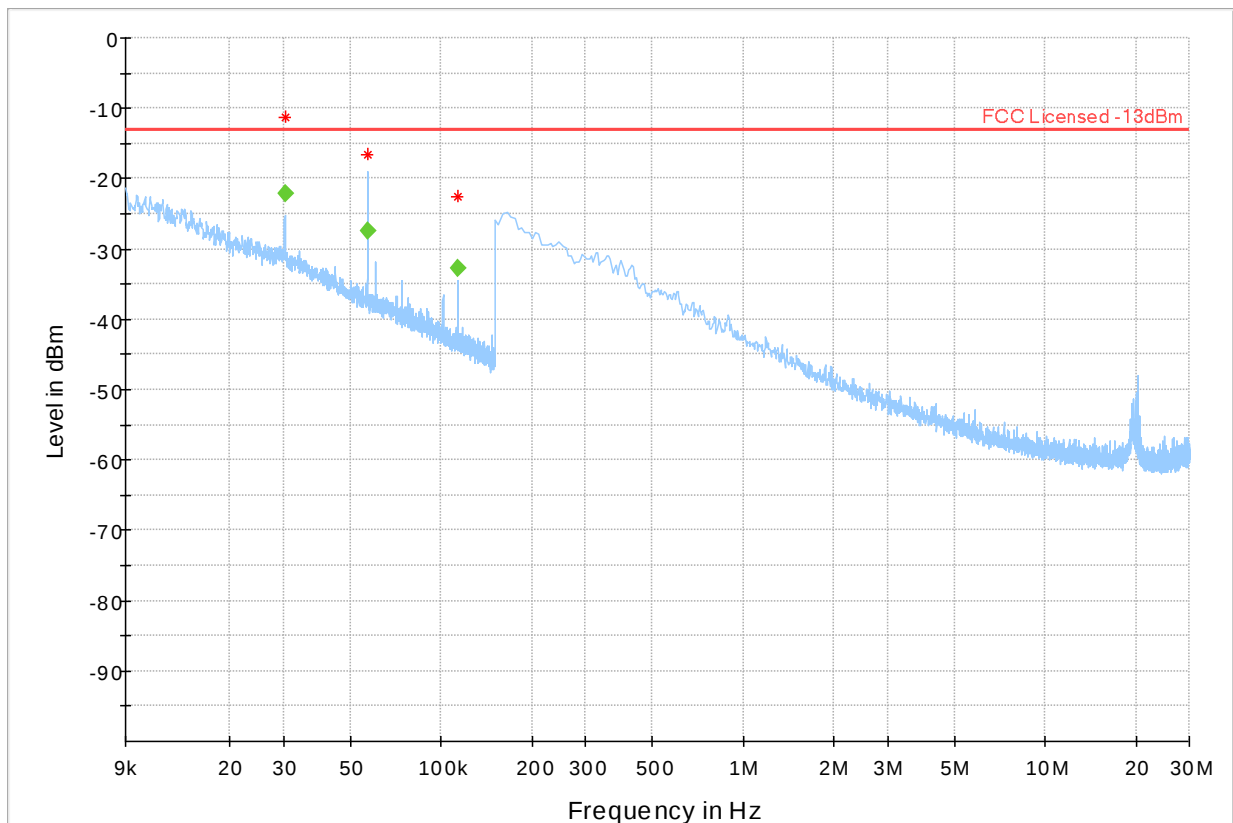
Preview Result1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #11 Radiated Emissions: 9 kHz - 30 MHz

Channel: Mid

UMTS Band V + LTE Band 2 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.03	---	-22.15	---	---	500.0	9.0	120.0	V	345.0	-73.3
0.06	---	-27.40	---	---	500.0	9.0	125.0	H	316.0	-76.1
0.11	---	-32.74	---	---	500.0	9.0	117.0	H	268.0	-76.9



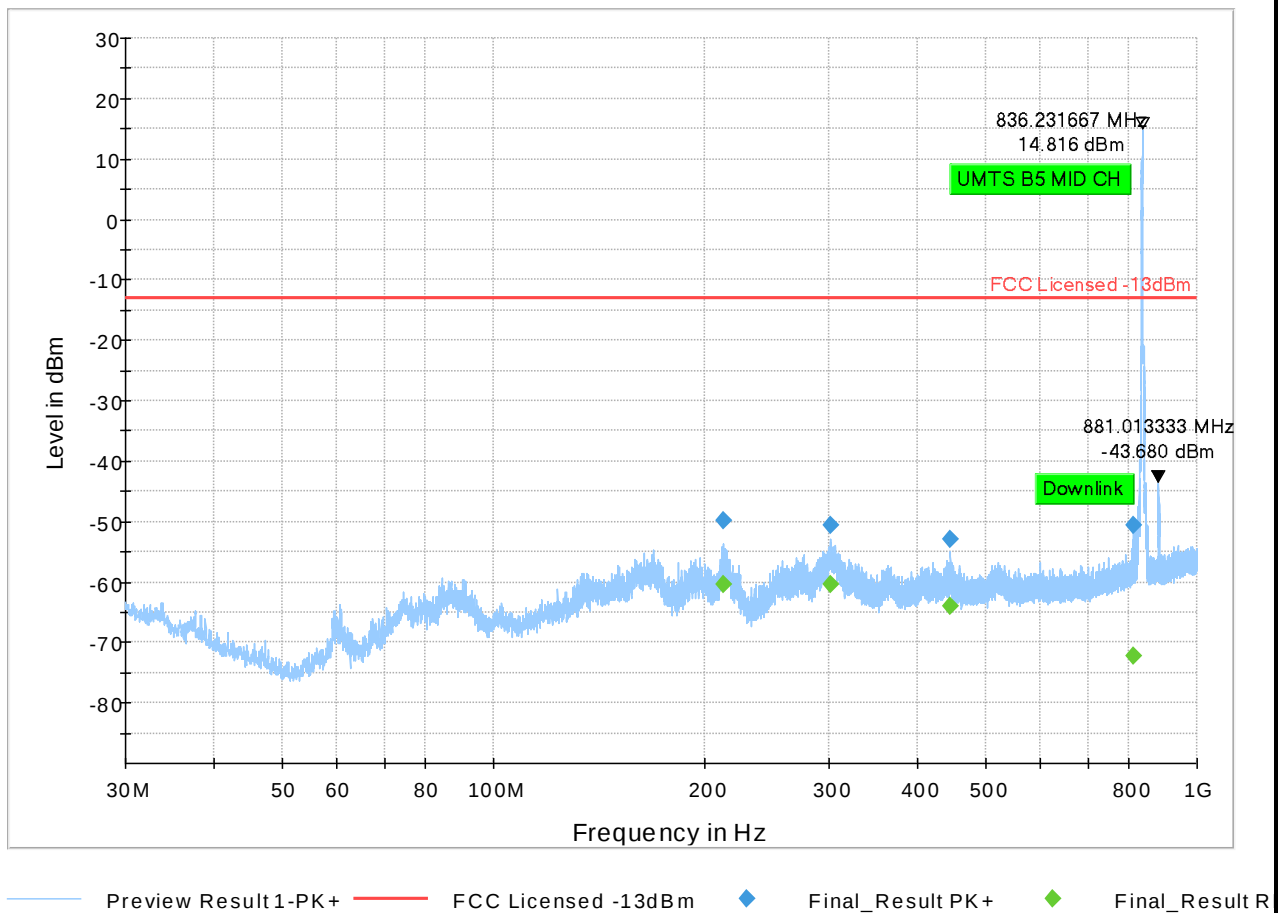
Preview Result 1-PK+ Final_Result PK+ PK+ Final_Result RMS FCC Licensed -13dBm

Plot #12 Radiated Emissions: 30 MHz - 1 GHz

Channel: Mid

UMTS Band V + LTE Band 2 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
212.65	-49.86	---	-13.00	36.86	500.0	100.0	100.0	V	104.0	-76.5
212.65	---	-60.41	---	---	500.0	100.0	100.0	V	104.0	-76.5
301.70	---	-60.38	---	---	500.0	100.0	100.0	H	278.0	-73.9
301.70	-50.54	---	-13.00	37.54	500.0	100.0	100.0	H	278.0	-73.9
446.81	---	-63.99	---	---	500.0	100.0	134.0	V	126.0	-70.6
446.81	-53.00	---	-13.00	40.00	500.0	100.0	134.0	V	126.0	-70.6
810.85	-50.50	---	-13.00	37.50	500.0	100.0	166.0	H	-56.0	-64.1
810.85	---	-72.28	---	---	500.0	100.0	166.0	H	-56.0	-64.1

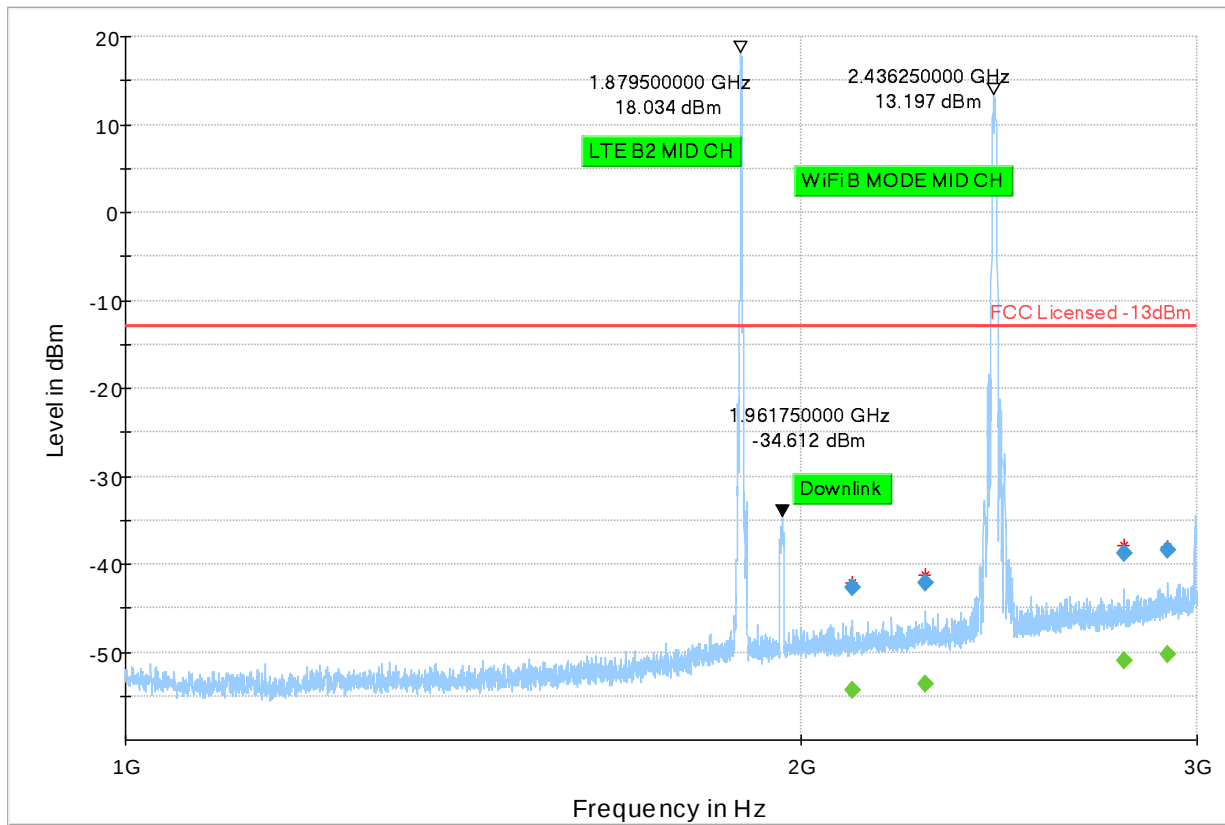


Plot #13 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid

UMTS Band V + LTE Band 2 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2106.50	-42.68	---	-13.00	29.68	500.0	1000.0	210.0	V	246.0	-62.9
2106.50	---	-54.35	---	---	500.0	1000.0	210.0	V	246.0	-62.9
2270.50	---	-53.71	---	---	500.0	1000.0	168.0	H	57.0	-62.2
2270.50	-42.06	---	-13.00	29.06	500.0	1000.0	168.0	H	57.0	-62.2
2785.50	---	-50.90	---	---	500.0	1000.0	158.0	H	-44.0	-60.6
2785.50	-38.84	---	-13.00	25.84	500.0	1000.0	158.0	H	-44.0	-60.6
2909.75	-38.45	---	-13.00	25.45	500.0	1000.0	325.0	V	165.0	-59.8
2909.75	---	-50.32	---	---	500.0	1000.0	325.0	V	165.0	-59.8



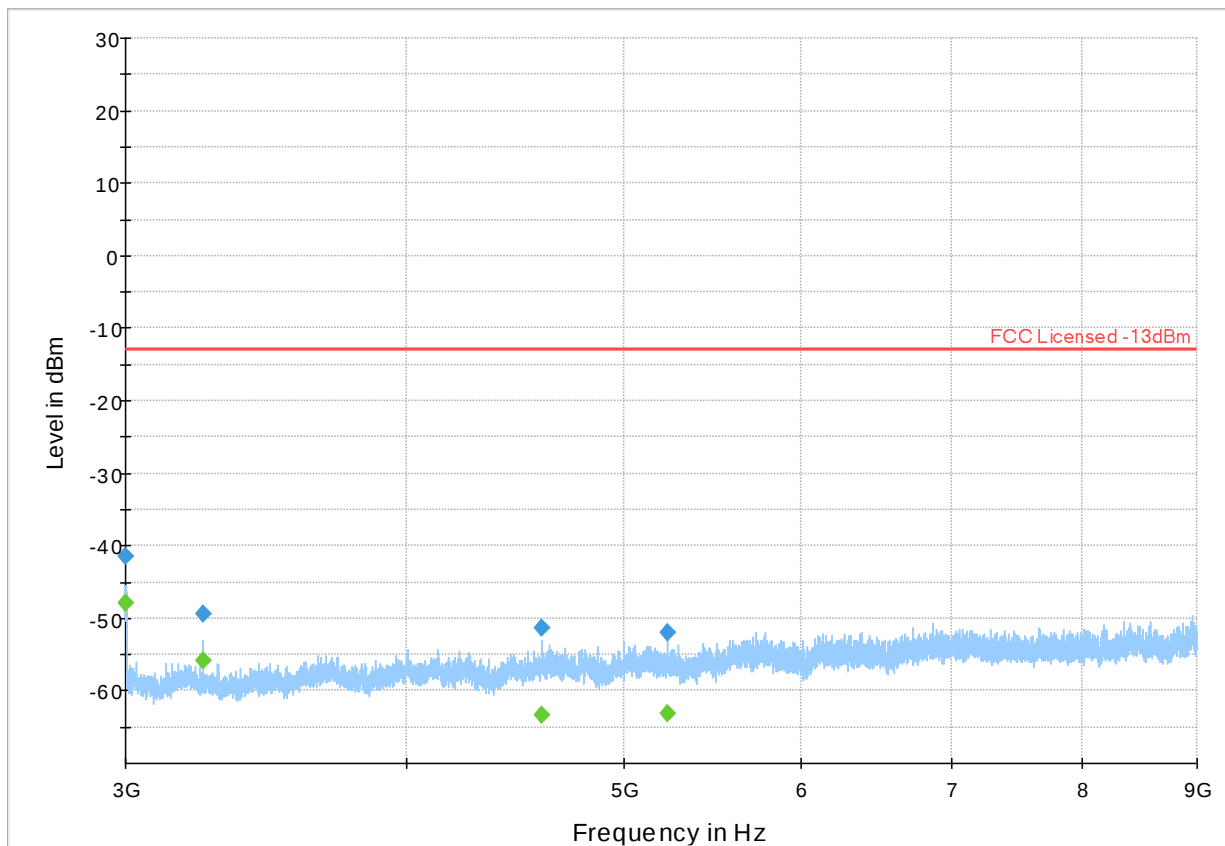
Preview Result 1-PK+ Final_Result PK+ Critical_Freqs PK+ Final_Result RMS FCC Licensed -13dBm

Plot #14 Radiated Emissions: 3 GHz - 9 GHz

Channel: Mid

UMTS Band V + LTE Band 2 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3001.75	---	-47.90	---	---	500.0	1000.0	100.0	H	6.0	-102.9
3001.75	-41.44	---	-13.00	28.44	500.0	1000.0	100.0	H	6.0	-102.9
3249.25	---	-55.85	---	---	500.0	1000.0	134.0	H	46.0	-102.9
3249.25	-49.45	---	-13.00	36.45	500.0	1000.0	134.0	H	46.0	-102.9
4599.00	---	-63.45	---	---	500.0	1000.0	134.0	H	194.0	-98.7
4599.00	-51.26	---	-13.00	38.26	500.0	1000.0	134.0	H	194.0	-98.7
5230.00	---	-63.19	---	---	500.0	1000.0	325.0	H	275.0	-97.3
5230.00	-52.04	---	-13.00	39.04	500.0	1000.0	325.0	H	275.0	-97.3



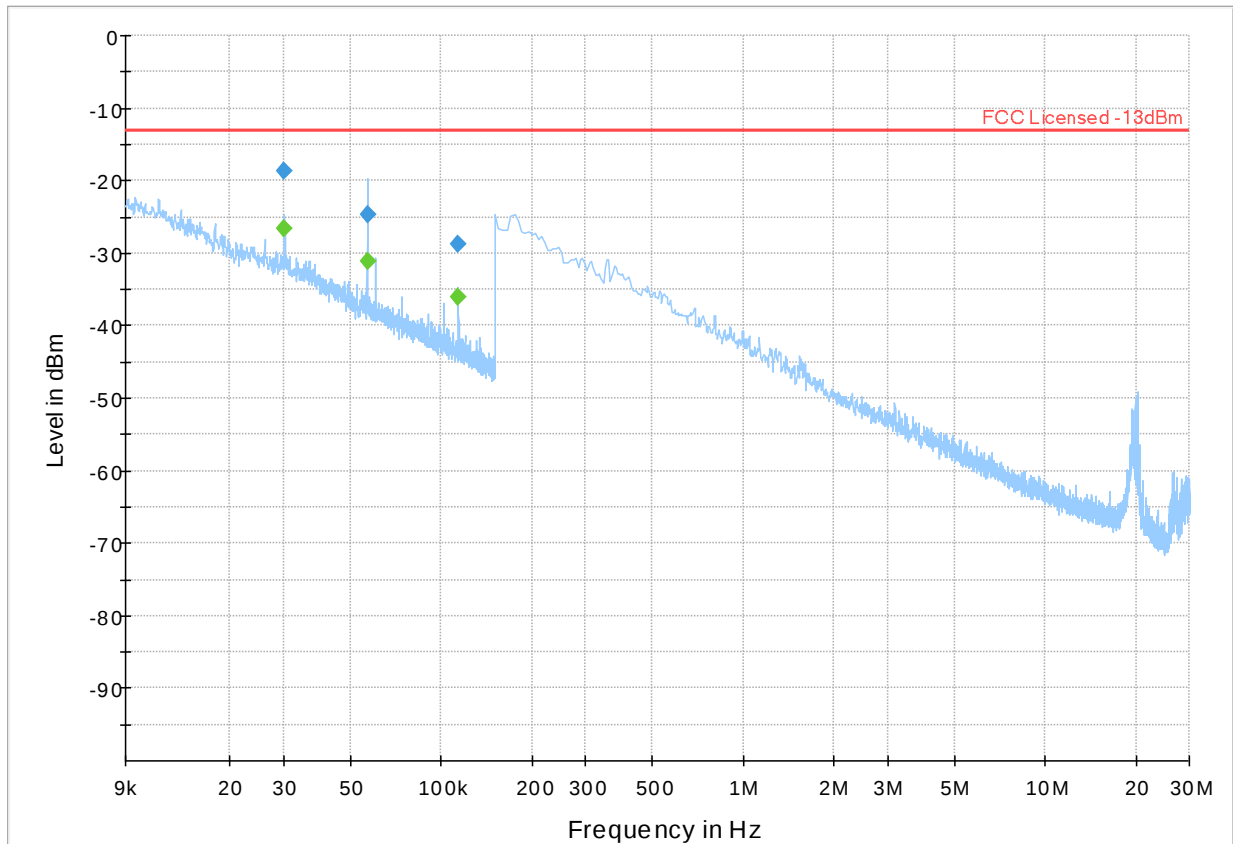
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #15 Radiated Emissions: 9 kHz - 30 MHz

Channel: Mid

LTE Band 2 + LTE Band 5 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.03	---	-26.67	---	---	500.0	1.0	100.0	H	-8.0	-73.3
0.03	-18.64	---	-13.00	5.64	500.0	1.0	100.0	H	-8.0	-73.3
0.06	---	-31.04	---	---	500.0	1.0	100.0	H	345.0	-76.1
0.06	-24.61	---	-13.00	11.61	500.0	1.0	100.0	H	345.0	-76.1
0.11	---	-36.00	---	---	500.0	1.0	100.0	V	174.0	-76.9
0.11	-28.85	---	-13.00	15.85	500.0	1.0	100.0	V	174.0	-76.9



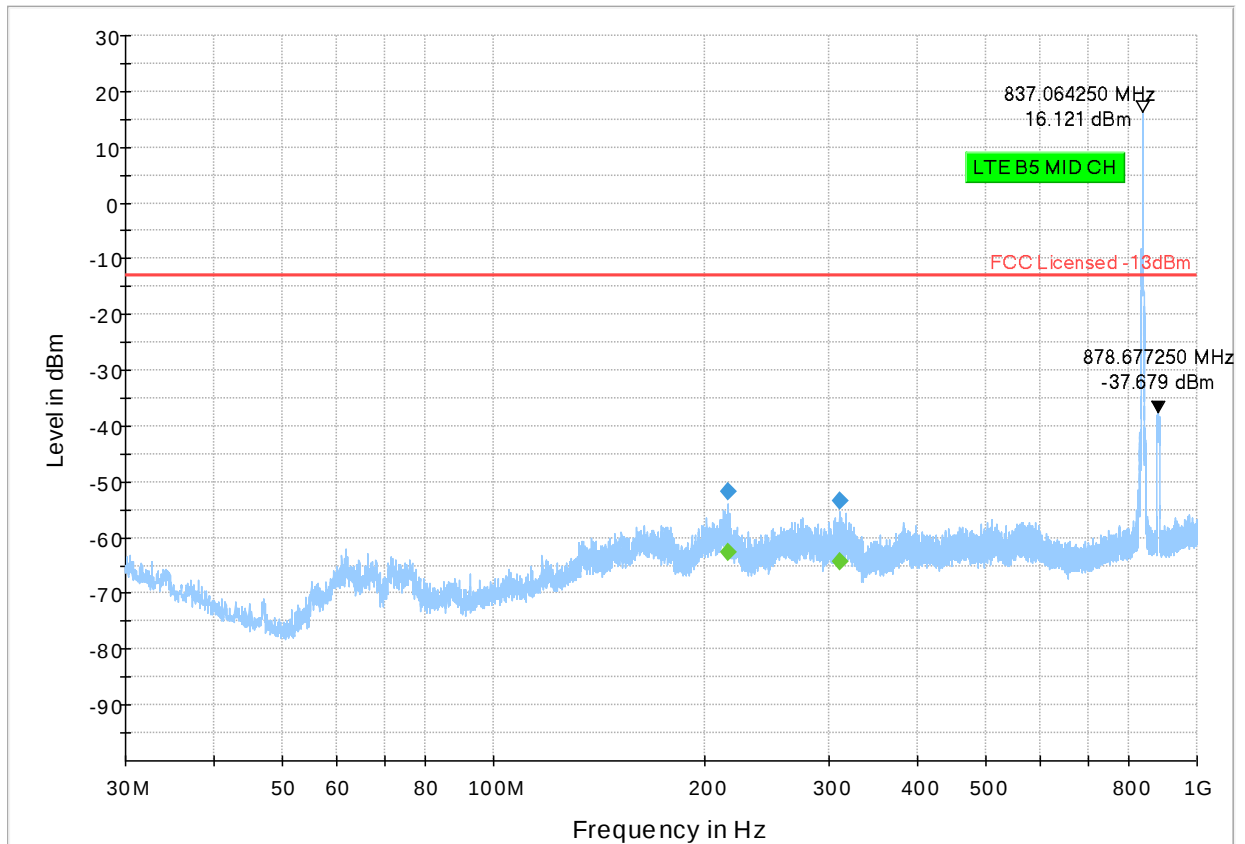
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #16 Radiated Emissions: 30 MHz - 1 GHz

Channel: Mid

LTE Band 2 + LTE Band 5 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
215.42	-51.64	---	-13.00	38.64	500.0	120.0	107.0	V	102.0	-76.4
215.42	---	-62.68	---	---	500.0	120.0	107.0	V	102.0	-76.4
309.97	-53.55	---	-13.00	40.55	500.0	120.0	100.0	H	150.0	-73.6
309.97	---	-64.37	---	---	500.0	120.0	100.0	H	150.0	-73.6



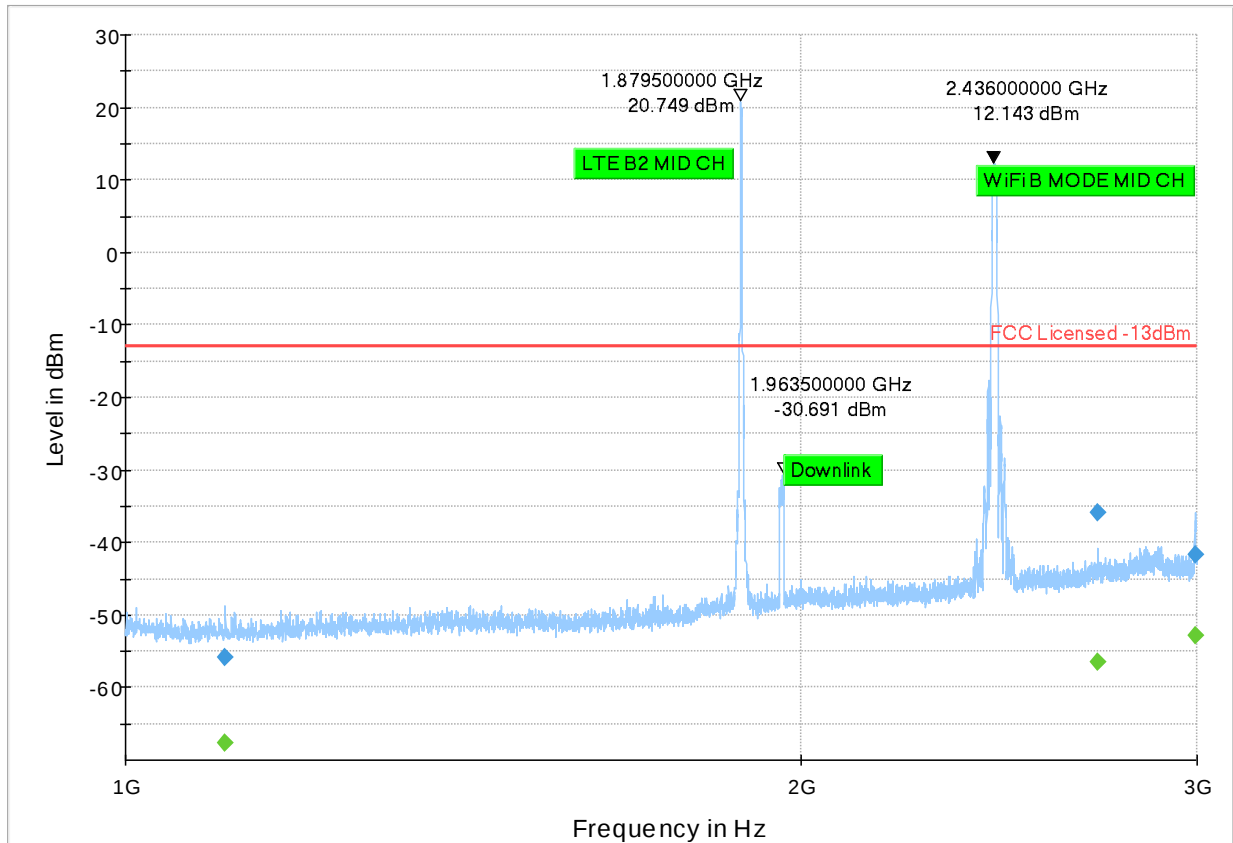
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #17 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid

LTE Band 2 + LTE Band 5 + Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1107.75	---	-67.61	---	---	500.0	1000.0	303.0	V	85.0	-67.4
1107.75	-55.73	---	-13.00	42.73	500.0	1000.0	303.0	V	85.0	-67.4
2708.00	---	-56.49	---	---	500.0	1000.0	220.0	V	-18.0	-61.4
2708.00	-35.81	---	-13.00	22.81	500.0	1000.0	220.0	V	-18.0	-61.4
2994.50	---	-52.91	---	---	500.0	1000.0	215.0	H	3.0	-59.7
2994.50	-41.68	---	-13.00	28.68	500.0	1000.0	215.0	H	3.0	-59.7

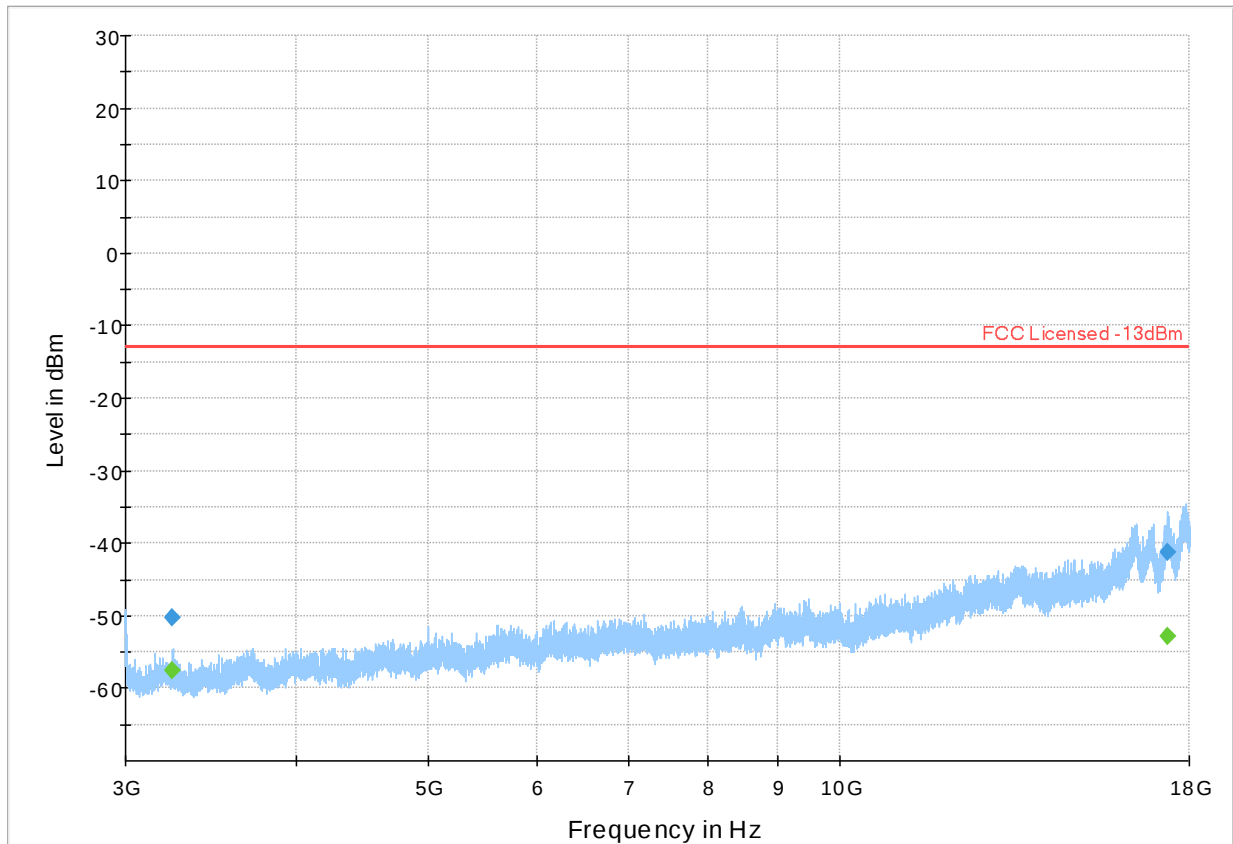


Plot #18 Radiated Emissions: 3 GHz - 18 GHz

Channel: Mid

LTE Band 2 + LTE Band 5 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3249.00	---	-57.51	---	---	500.0	1000.0	125.0	H	44.0	-102.8
3249.00	-50.31	---	-13.00	37.31	500.0	1000.0	125.0	H	44.0	-102.8
17351.50	---	-52.88	---	---	500.0	1000.0	176.0	H	-90.0	-79.4
17351.50	-41.22	---	-13.00	28.22	500.0	1000.0	176.0	H	-90.0	-79.4



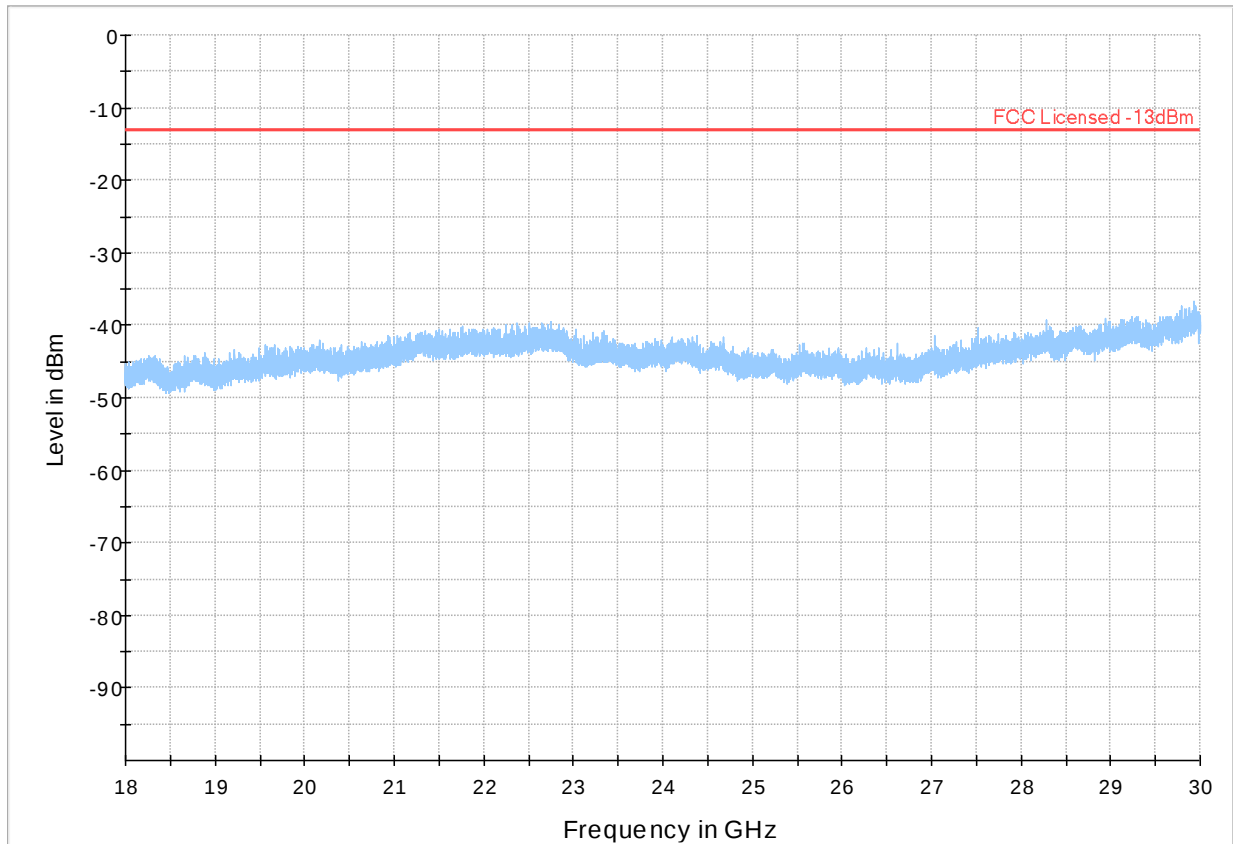
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #19 Radiated Emissions: 18 GHz - 30 GHz

Channel: Mid

LTE Band 2 + LTE Band 5 +Wi-Fi 2.4GHz

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



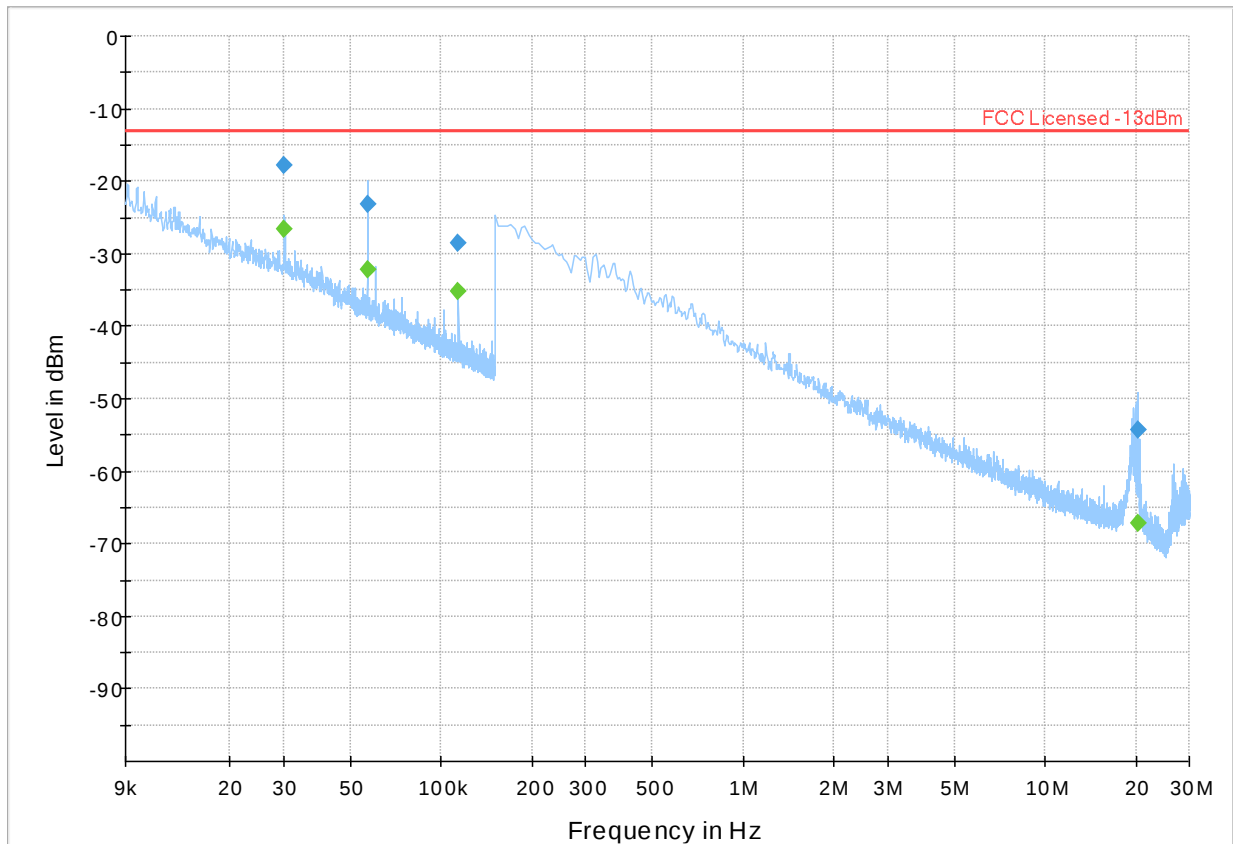
Preview Result1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #20 Radiated Emissions: 9 kHz - 30 MHz

Channel: Mid

LTE Band 4 + LTE Band 7 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.03	-17.81	---	-13.00	4.81	500.0	1.0	100.0	H	-12.0	-73.3
0.03	---	-26.69	---	---	500.0	1.0	100.0	H	-12.0	-73.3
0.06	-23.17	---	-13.00	10.17	500.0	1.0	100.0	H	346.0	-76.1
0.06	---	-32.11	---	---	500.0	1.0	100.0	H	346.0	-76.1
0.11	---	-35.20	---	---	500.0	1.0	100.0	H	-34.0	-76.9
0.11	-28.44	---	-13.00	15.44	500.0	1.0	100.0	H	-34.0	-76.9
20.20	---	-67.07	---	---	500.0	1.0	100.0	V	312.0	-78.8
20.20	-54.36	---	-13.00	41.36	500.0	1.0	100.0	V	312.0	-78.8

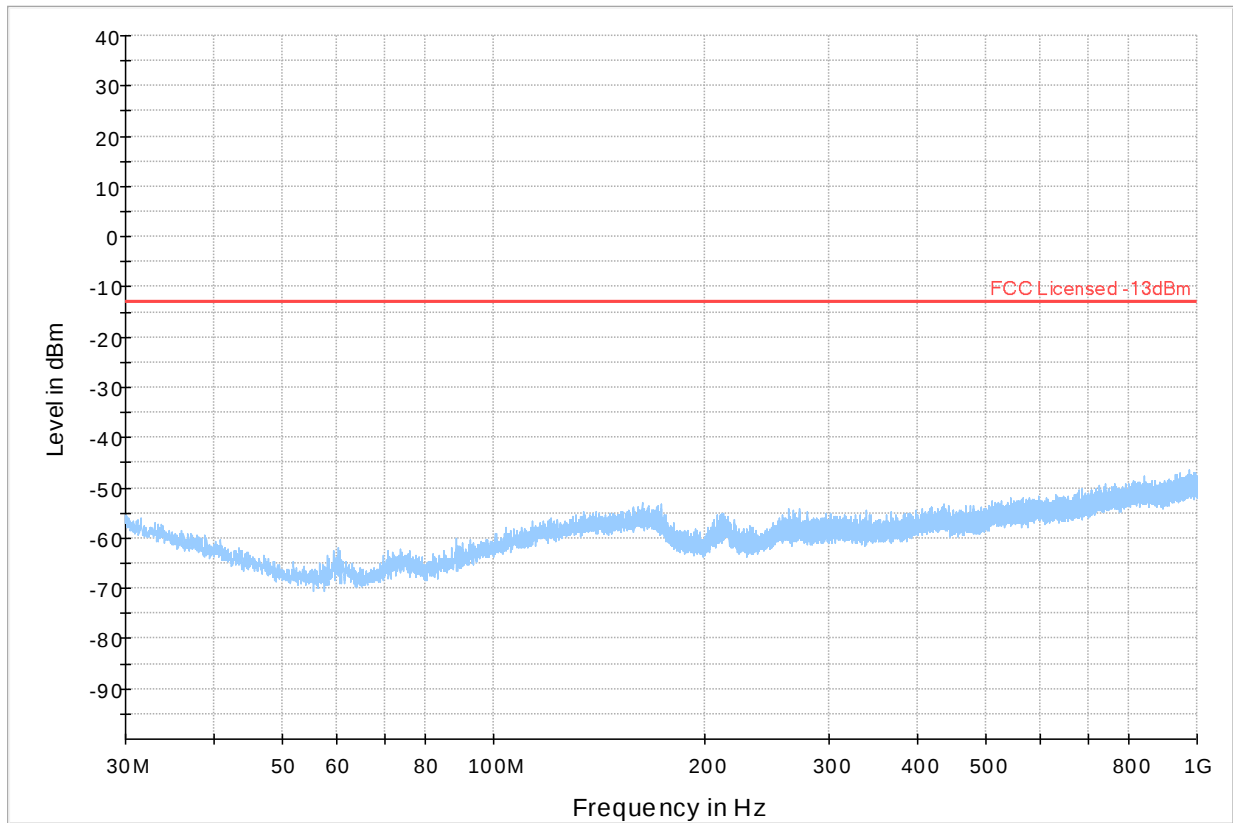


Plot #21 Radiated Emissions: 30 MHz - 1 GHz

Channel: Mid

LTE Band 4 + LTE Band 7 +Wi-Fi 2.4GHz

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



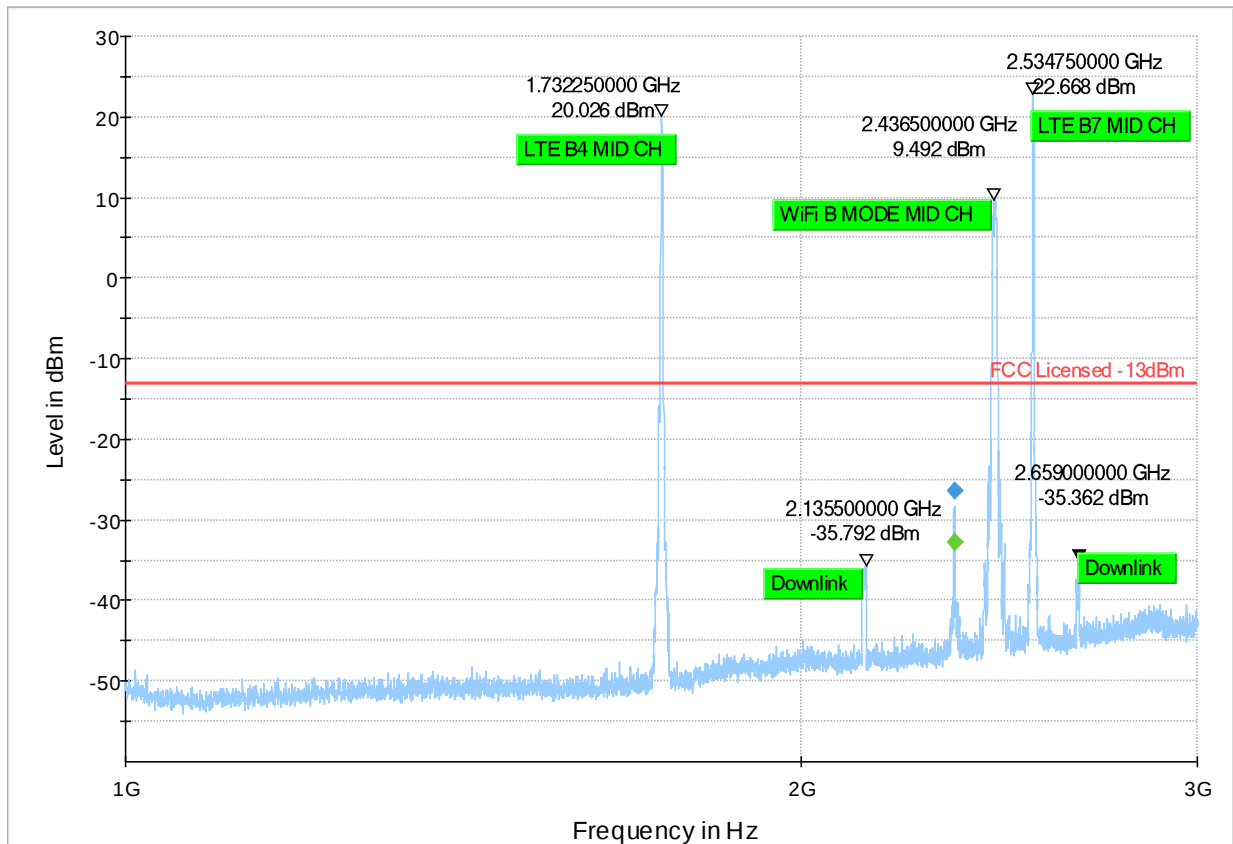
Preview Result 1-PK+ * Critical_Freqs PK+ FCC Licensed -13dBm
Final_Result PK+ ♦ Final_Result RMS

Plot #22 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid

LTE Band 4 + LTE Band 7 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2339.50	---	-32.76	---	---	500.0	1000.0	150.0	H	87.0	-62.6
2339.50	-26.41	---	-13.00	13.41	500.0	1000.0	150.0	H	87.0	-62.6



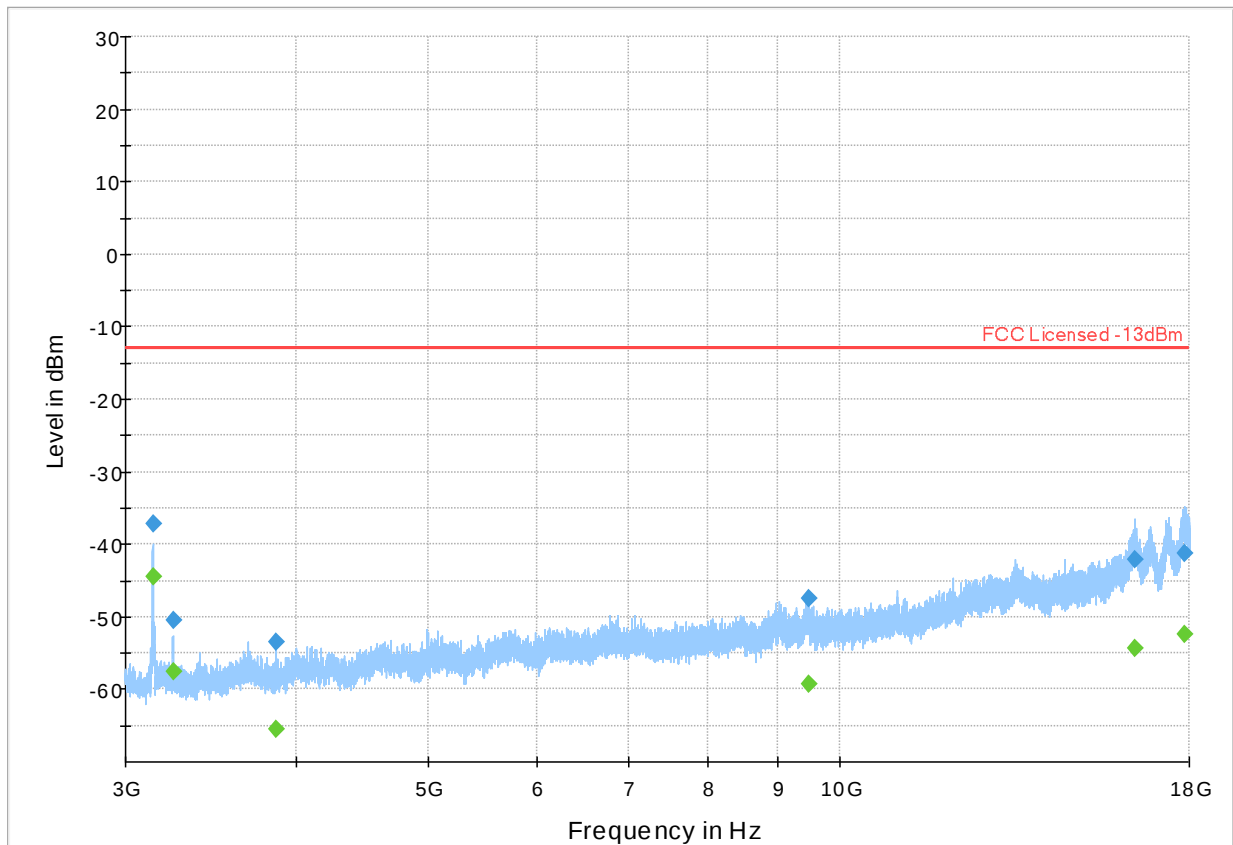
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result RM

Plot #23 Radiated Emissions: 3 GHz - 18 GHz

Channel: Mid

LTE Band 4 + LTE Band 7 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3140.75	---	-44.44	---	---	500.0	1000.0	181.0	H	13.0	-103.1
3140.75	-37.12	---	-13.00	24.12	500.0	1000.0	181.0	H	13.0	-103.1
3249.25	---	-57.48	---	---	500.0	1000.0	135.0	H	15.0	-102.9
3249.25	-50.47	---	-13.00	37.47	500.0	1000.0	135.0	H	15.0	-102.9
3867.50	---	-65.49	---	---	500.0	1000.0	152.0	H	209.0	-101.0
3867.50	-53.45	---	-13.00	40.45	500.0	1000.0	152.0	H	209.0	-101.0
9475.75	---	-59.18	---	---	500.0	1000.0	107.0	V	13.0	-92.6
9475.75	-47.46	---	-13.00	34.46	500.0	1000.0	107.0	V	13.0	-92.6
16406.50	---	-54.37	---	---	500.0	1000.0	195.0	V	133.0	-81.2
16406.50	-42.09	---	-13.00	29.09	500.0	1000.0	195.0	V	133.0	-81.2
17875.25	---	-52.40	---	---	500.0	1000.0	100.0	V	350.0	-77.0
17875.25	-41.20	---	-13.00	28.20	500.0	1000.0	100.0	V	350.0	-77.0



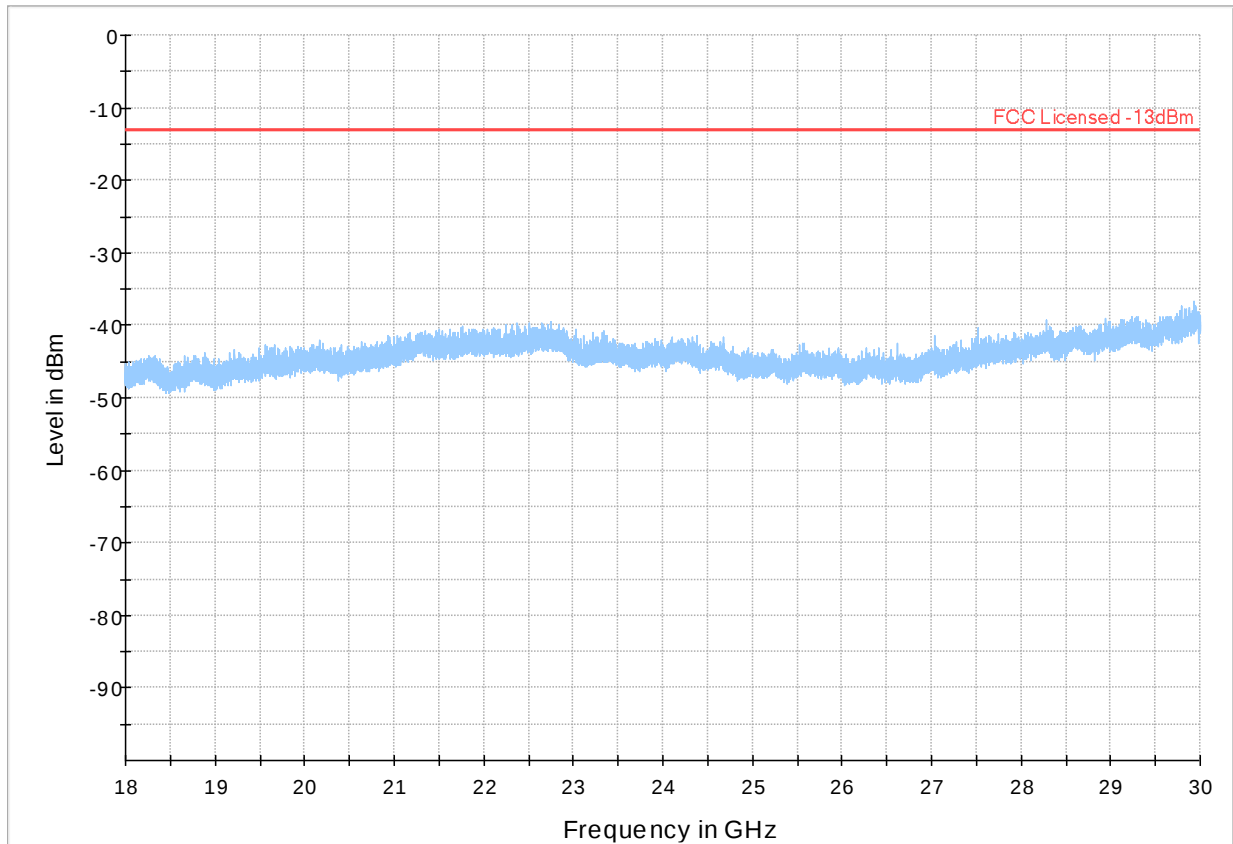
Preview Result1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #24 Radiated Emissions: 18 GHz - 30 GHz

Channel: Mid

LTE Band 4 + LTE Band 7 +Wi-Fi 2.4GHz

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



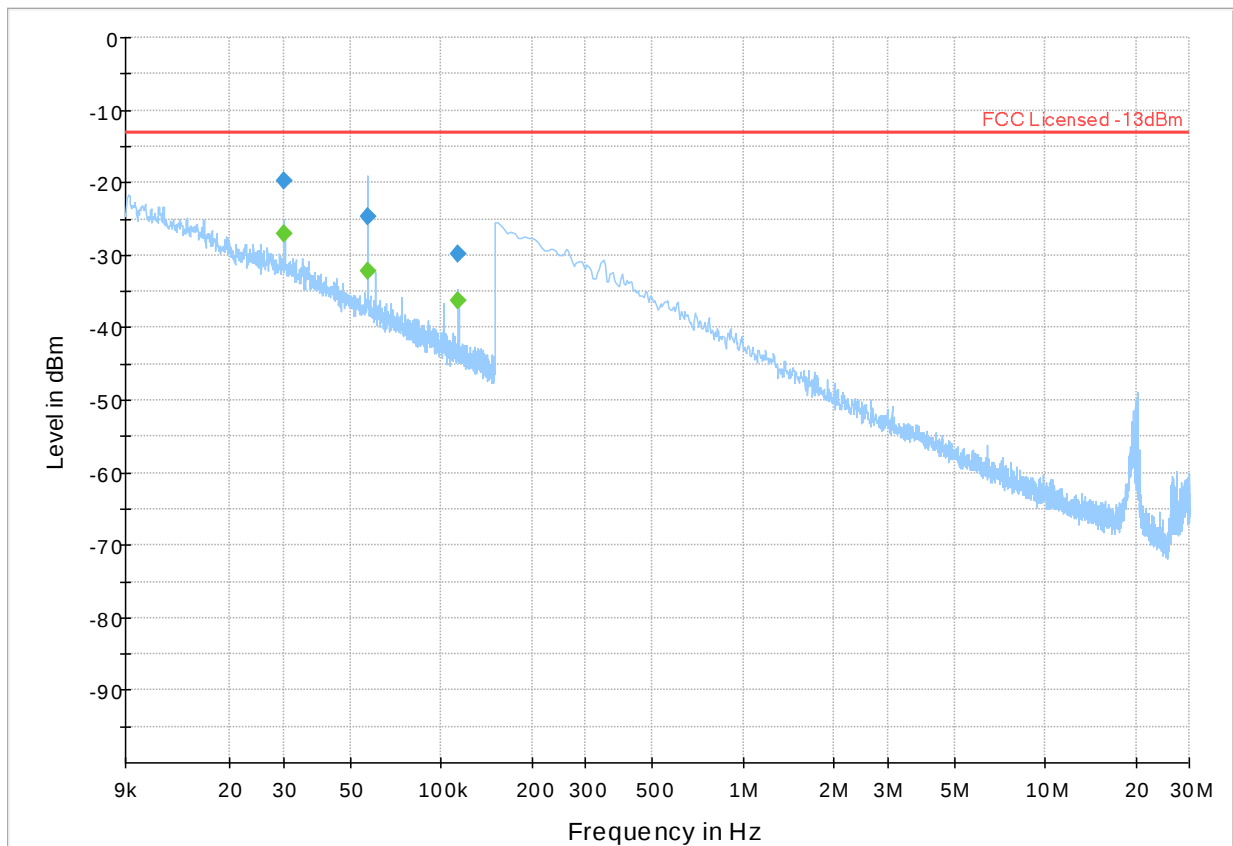
Preview Result1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #25 Radiated Emissions: 9 kHz - 30 MHz

Channel: Mid

LTE Band 5 + LTE Band 7 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.03	-19.69	---	-13.00	6.69	500.0	1.0	100.0	V	47.0	-73.3
0.03	---	-27.04	---	---	500.0	1.0	100.0	V	47.0	-73.3
0.06	-24.58	---	-13.00	11.58	500.0	1.0	100.0	H	345.0	-76.1
0.06	---	-32.19	---	---	500.0	1.0	100.0	H	345.0	-76.1
0.11	---	-36.36	---	---	500.0	1.0	100.0	V	1.0	-76.9
0.11	-29.83	---	-13.00	16.83	500.0	1.0	100.0	V	1.0	-76.9



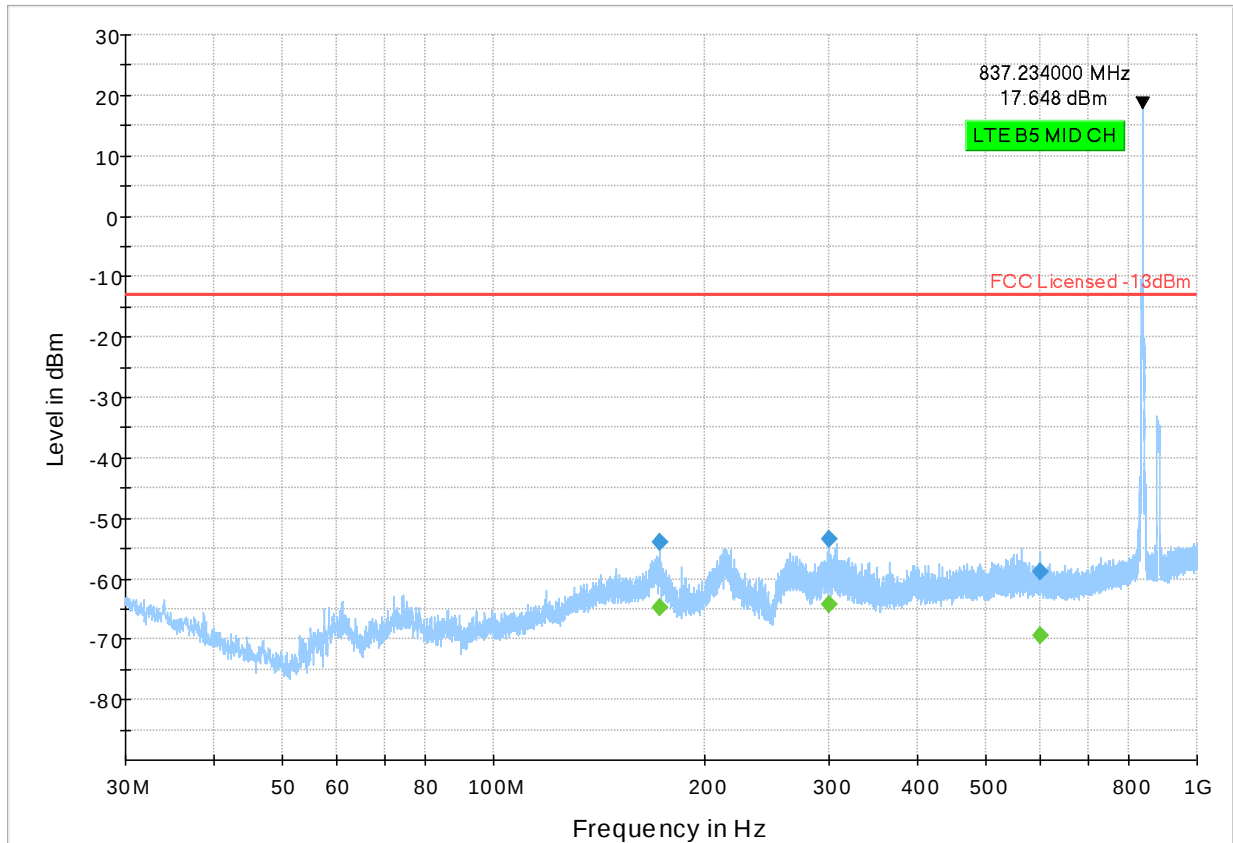
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #26 Radiated Emissions: 30 MHz - 1 GHz

Channel: Mid

LTE Band 5 + LTE Band 7 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
172.04	-53.96	---	-13.00	40.96	500.0	100.0	100.0	V	75.0	-71.0
172.04	---	-64.84	---	---	500.0	100.0	100.0	V	75.0	-71.0
300.08	---	-64.12	---	---	500.0	100.0	107.0	H	148.0	-74.0
300.08	-53.40	---	-13.00	40.40	500.0	100.0	107.0	H	148.0	-74.0
599.97	-58.91	---	-13.00	45.91	500.0	100.0	210.0	H	10.0	-67.3
599.97	---	-69.35	---	---	500.0	100.0	210.0	H	10.0	-67.3



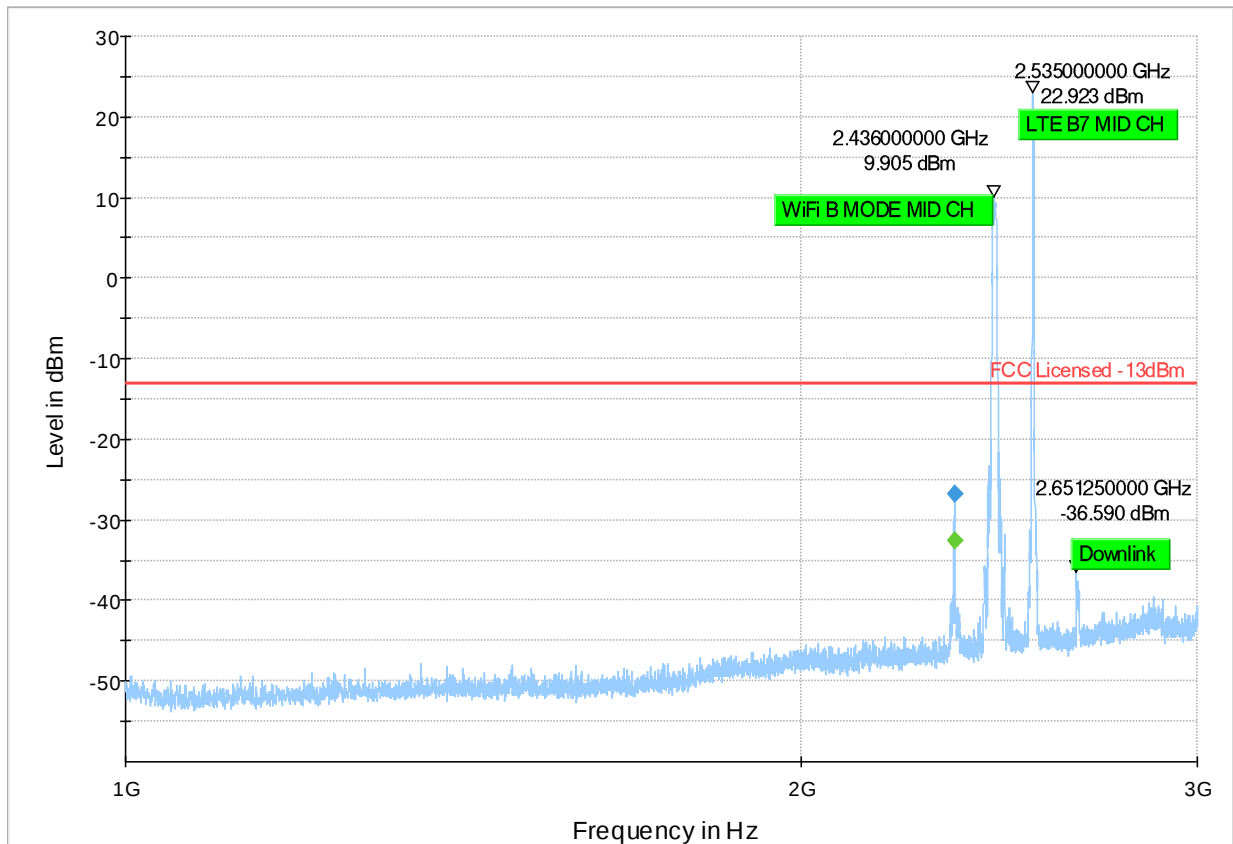
Preview Result1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #27 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid

LTE Band 5 + LTE Band 7 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2339.25	---	-32.59	---	---	500.0	1000.0	151.0	H	86.0	-62.6
2339.25	-26.77	---	-13.00	13.77	500.0	1000.0	151.0	H	86.0	-62.6



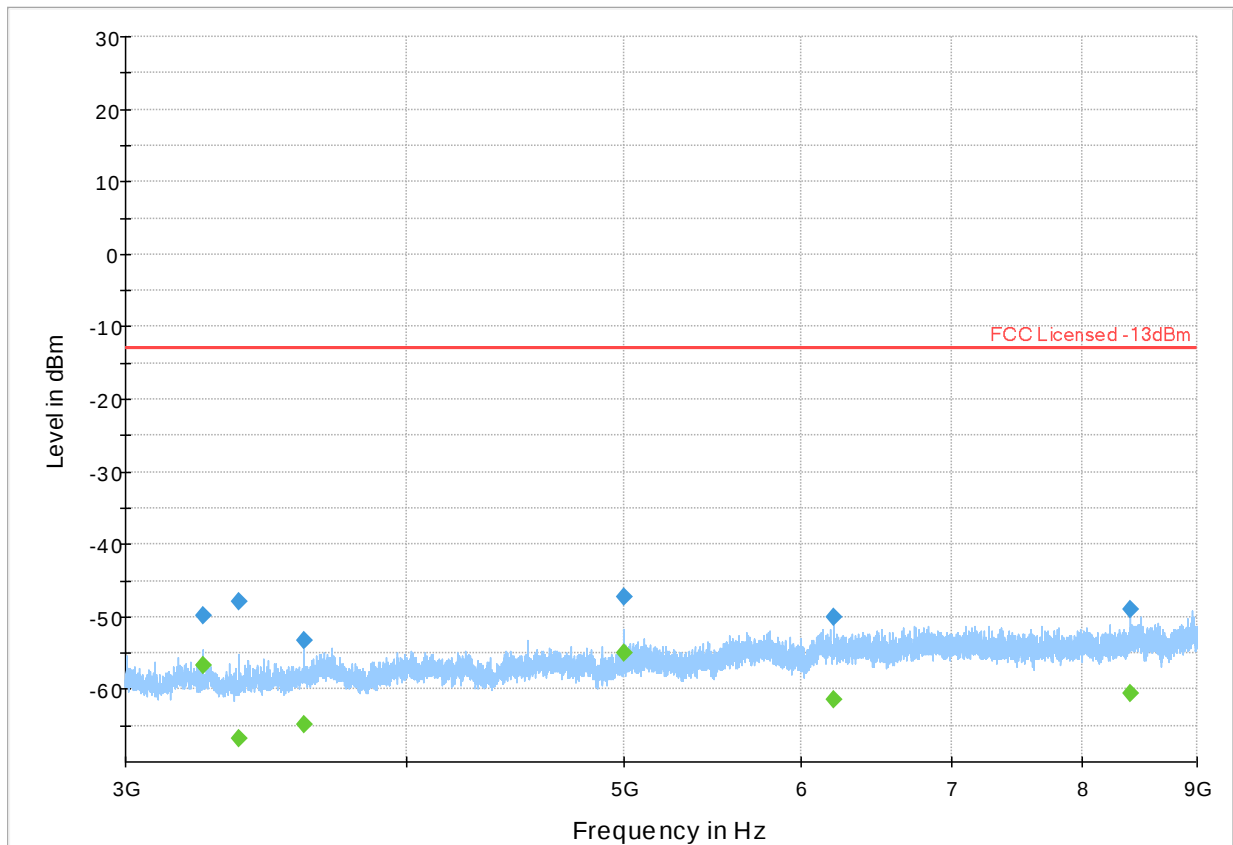
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result RM

Plot #28 Radiated Emissions: 3 GHz - 9 GHz

Channel: Mid

LTE Band 5 + LTE Band 7 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3249.25	---	-56.80	---	---	500.0	1000.0	150.0	H	52.0	-102.9
3249.25	-49.74	---	-13.00	36.74	500.0	1000.0	150.0	H	52.0	-102.9
3371.75	-47.86	---	-13.00	34.86	500.0	1000.0	134.0	H	112.0	-103.1
3371.75	---	-66.79	---	---	500.0	1000.0	134.0	H	112.0	-103.1
3601.00	---	-64.76	---	---	500.0	1000.0	209.0	V	95.0	-101.3
3601.00	-53.19	---	-13.00	40.19	500.0	1000.0	209.0	V	95.0	-101.3
5000.00	---	-54.90	---	---	500.0	1000.0	125.0	H	124.0	-98.5
5000.00	-47.18	---	-13.00	34.18	500.0	1000.0	125.0	H	124.0	-98.5
6197.75	---	-61.52	---	---	500.0	1000.0	100.0	V	315.0	-96.0
6197.75	-50.11	---	-13.00	37.11	500.0	1000.0	100.0	V	315.0	-96.0
8403.00	-49.05	---	-13.00	36.05	500.0	1000.0	121.0	H	358.0	-94.8
8403.00	---	-60.58	---	---	500.0	1000.0	121.0	H	358.0	-94.8



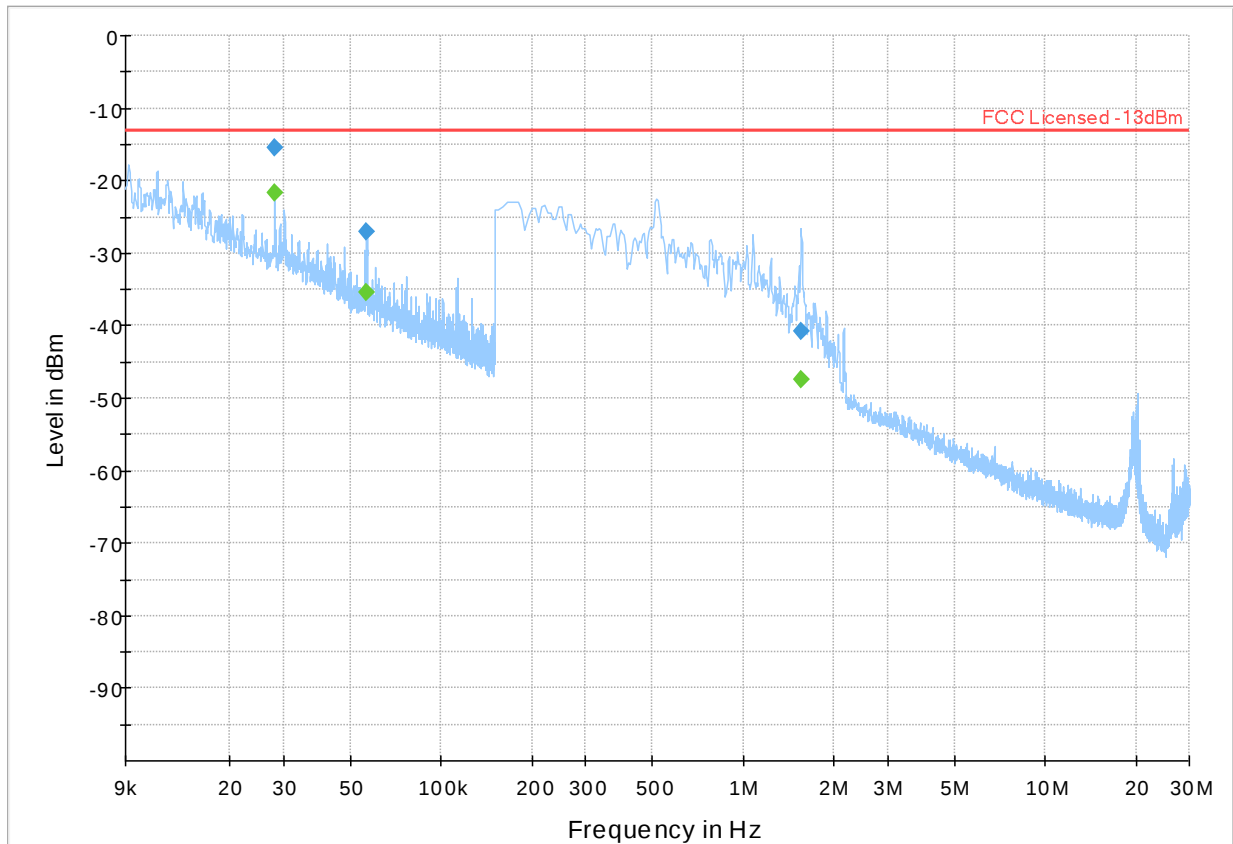
Preview Result1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #29 Radiated Emissions: 9 kHz - 30 MHz

Channel: Mid

LTE Band 7 + LTE Band 2 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.03	---	-21.74	---	---	500.0	1.0	100.0	V	18.0	-73.0
0.03	-15.37	---	-13.00	2.37	500.0	1.0	100.0	V	18.0	-73.0
0.06	-27.08	---	-13.00	14.08	500.0	1.0	100.0	V	243.0	-76.1
0.06	---	-35.41	---	---	500.0	1.0	100.0	V	243.0	-76.1
1.55	-40.69	---	-13.00	27.69	500.0	1.0	100.0	V	53.0	-76.9
1.55	---	-47.39	---	---	500.0	1.0	100.0	V	53.0	-76.9



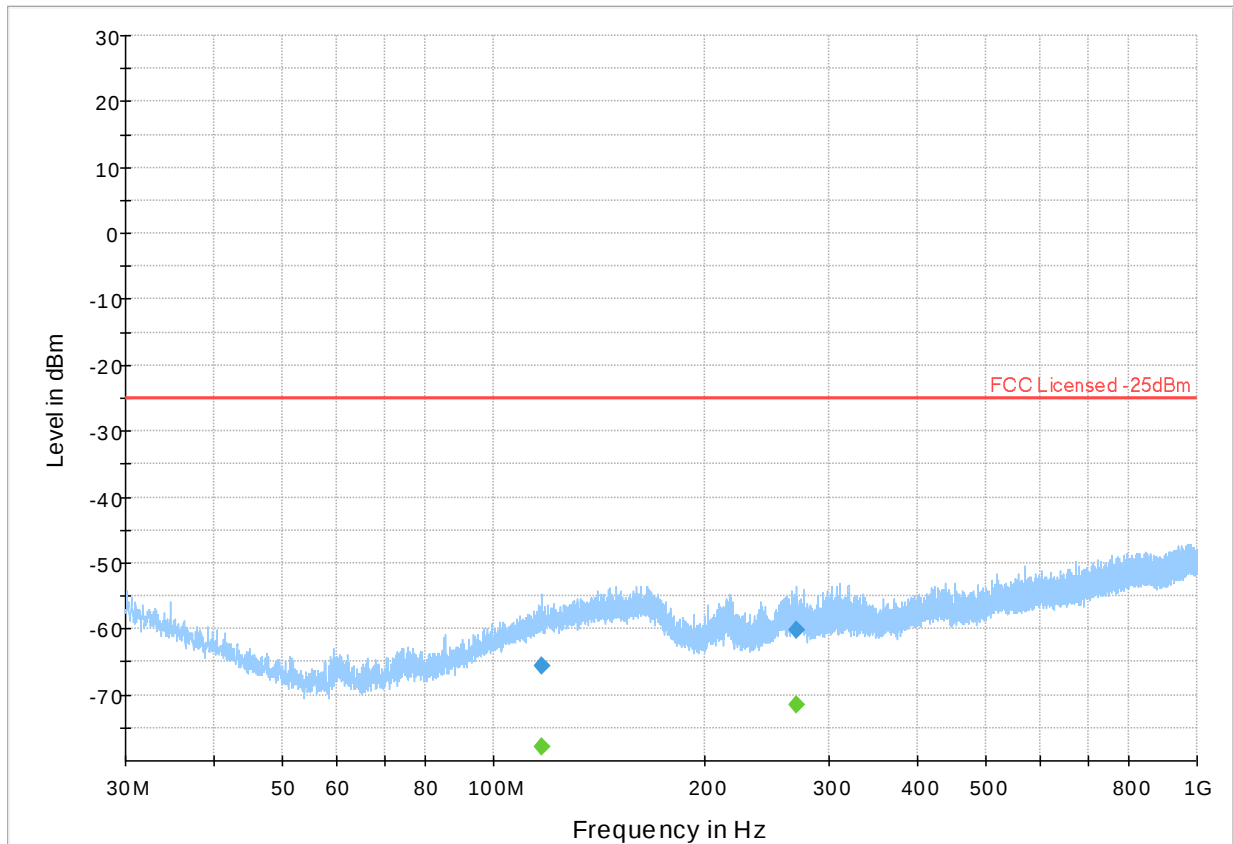
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #30 Radiated Emissions: 30 MHz - 1 GHz

Channel: Mid

LTE Band 7 + LTE Band 2 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
116.94	---	-77.87	---	---	500.0	100.0	154.0	H	103.0	-71.3
116.94	-65.57	---	-25.00	40.57	500.0	100.0	154.0	H	103.0	-71.3
269.44	---	-71.47	---	---	500.0	100.0	100.0	H	174.0	-74.2
269.44	-60.14	---	-25.00	35.14	500.0	100.0	100.0	H	174.0	-74.2



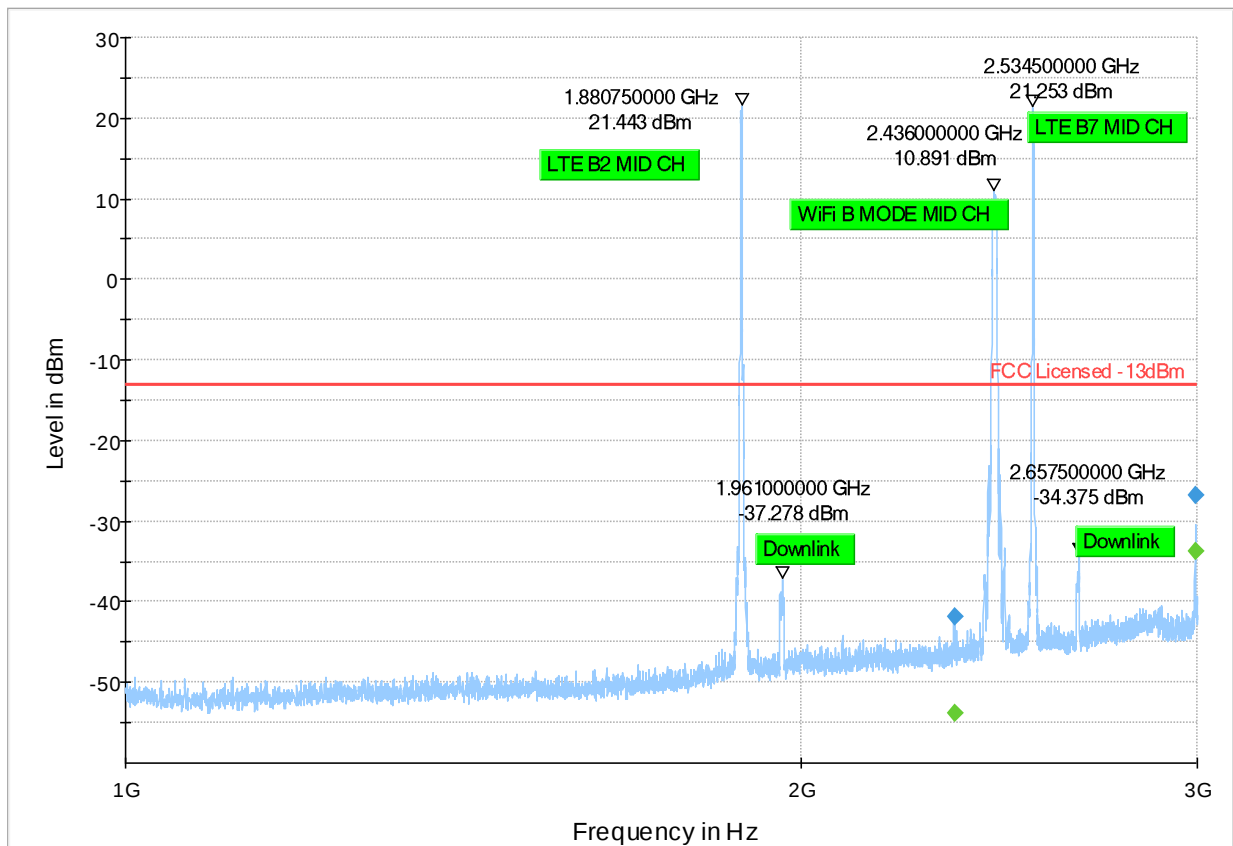
Preview Result 1-PK+ FCC Licensed -25dBm Final_Result PK+ Final_Result R

Plot #31 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid

LTE Band 7 + LTE Band 2 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2340.00	---	-53.75	---	---	500.0	1000.0	210.0	H	175.0	-62.6
2340.00	-41.92	---	-13.00	28.92	500.0	1000.0	210.0	H	175.0	-62.6
2993.50	---	-33.78	---	---	500.0	1000.0	121.0	V	25.0	-59.7
2993.50	-26.77	---	-13.00	13.77	500.0	1000.0	121.0	V	25.0	-59.7



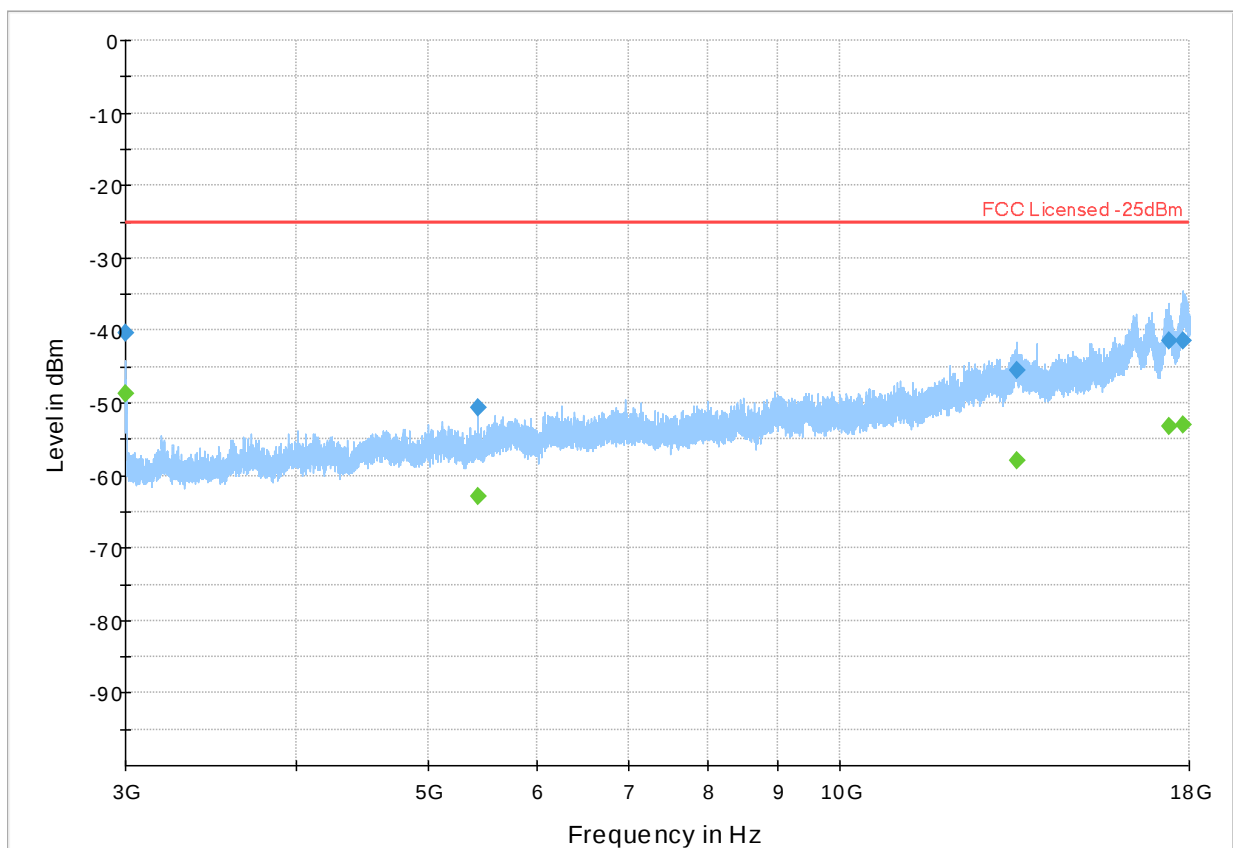
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result RM

Plot #32 Radiated Emissions: 3 GHz - 18 GHz

Channel: Mid

LTE Band 7 + LTE Band 2 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3001.00	---	-48.75	---	---	500.0	1000.0	107.0	H	5.0	-102.9
3001.00	-40.37	---	-25.00	15.37	500.0	1000.0	107.0	H	5.0	-102.9
5435.75	---	-62.86	---	---	500.0	1000.0	211.0	H	29.0	-97.7
5435.75	-50.60	---	-25.00	25.61	500.0	1000.0	211.0	H	29.0	-97.7
13472.50	---	-57.96	---	---	500.0	1000.0	107.0	H	147.0	-85.9
13472.50	-45.55	---	-25.00	20.55	500.0	1000.0	107.0	H	147.0	-85.9
17393.25	-41.33	---	-25.00	16.33	500.0	1000.0	107.0	V	278.0	-79.2
17393.25	---	-53.19	---	---	500.0	1000.0	107.0	V	278.0	-79.2
17793.00	-41.41	---	-25.00	16.41	500.0	1000.0	164.0	V	-4.0	-77.6
17793.00	---	-53.05	---	---	500.0	1000.0	164.0	V	-4.0	-77.6



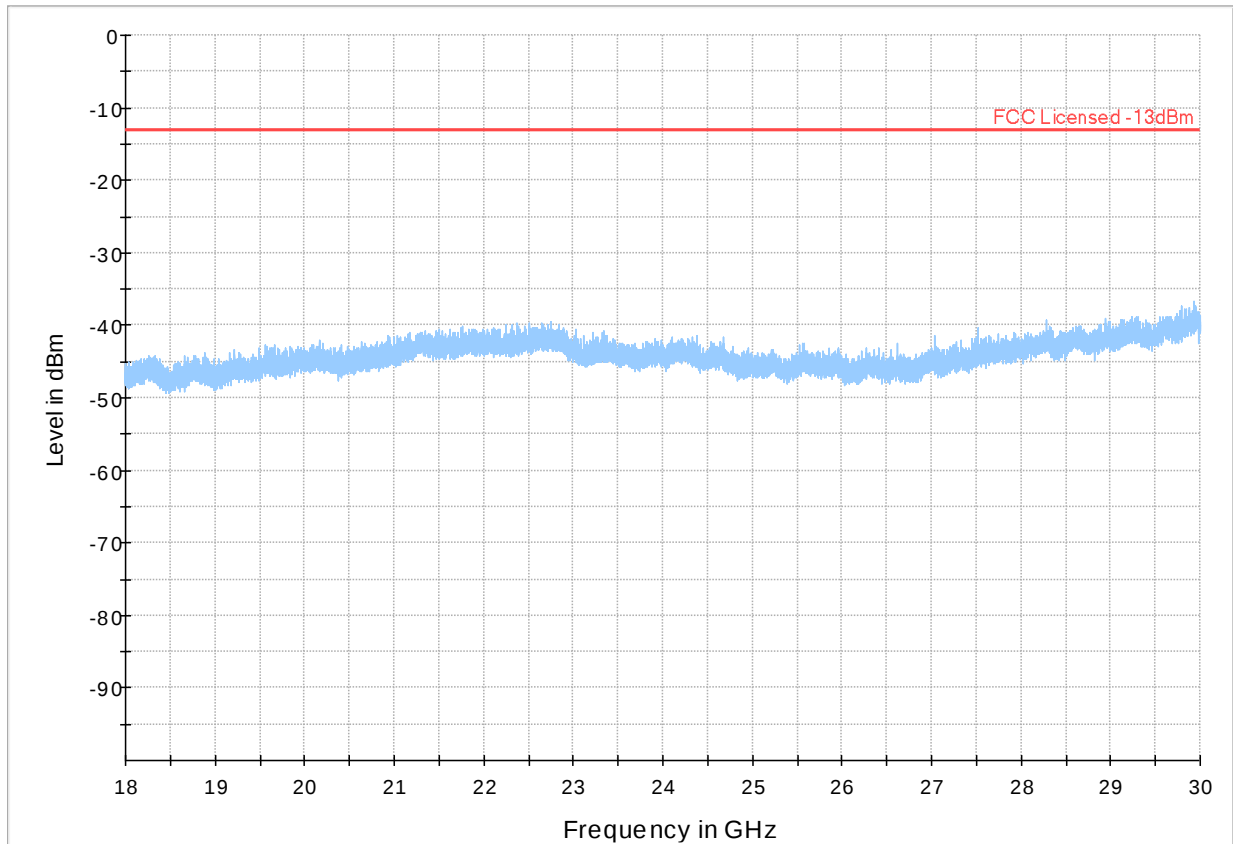
Preview Result 1-PK+ FCC Licensed -25dBm Final_Result PK+ Final_Result R

Plot #33 Radiated Emissions: 18 GHz - 30 GHz

Channel: Mid

LTE Band 7 + LTE Band 2 +Wi-Fi 2.4GHz

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



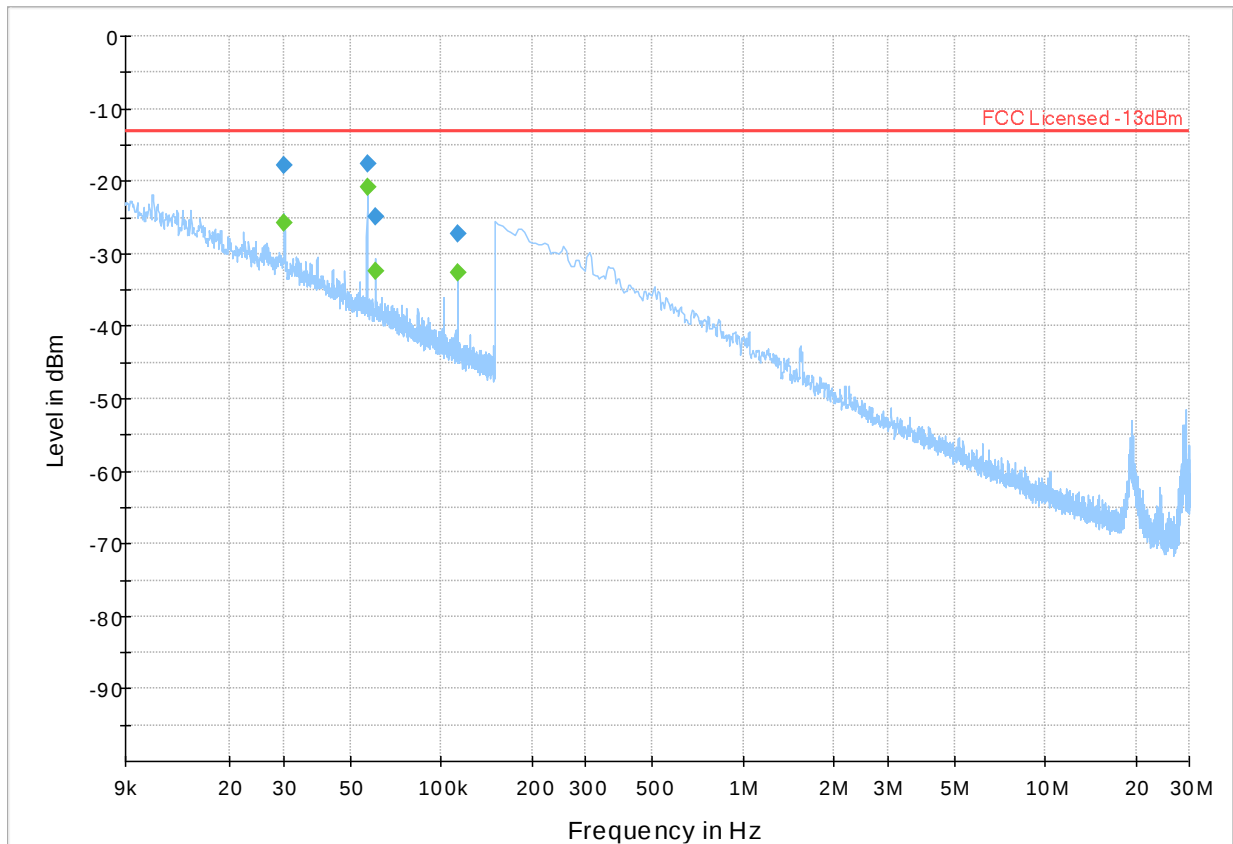
Preview Result1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #34 Radiated Emissions: 9 kHz - 30 MHz

Channel: Mid

LTE Band 12 + UMTS Band II +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.03	---	-25.72	---	---	500.0	1.0	100.0	V	238.0	-73.3
0.03	-17.75	---	-13.00	4.75	500.0	1.0	100.0	V	238.0	-73.3
0.06	-17.59	---	-13.00	4.59	500.0	1.0	100.0	H	303.0	-76.1
0.06	---	-20.78	---	---	500.0	1.0	100.0	H	303.0	-76.1
0.06	---	-32.46	---	---	500.0	1.0	100.0	V	36.0	-76.2
0.06	-24.85	---	-13.00	11.85	500.0	1.0	100.0	V	36.0	-76.2
0.11	-27.35	---	-13.00	14.35	500.0	1.0	100.0	V	161.0	-76.9
0.11	---	-32.64	---	---	500.0	1.0	100.0	V	161.0	-76.9



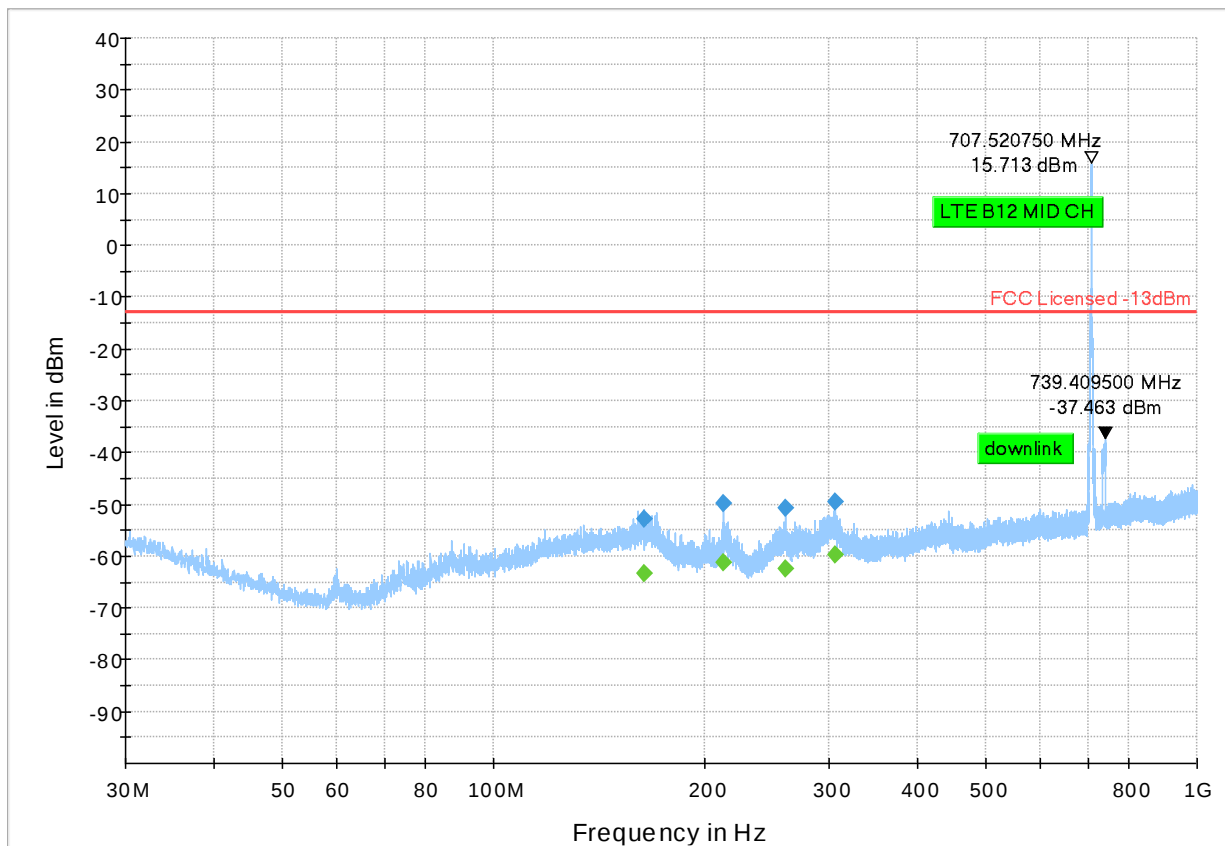
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #35 Radiated Emissions: 30 MHz - 1 GHz

Channel: Mid

LTE Band 12 + UMTS Band II +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
163.74	-52.71	---	-13.00	39.71	500.0	100.0	107.0	V	288.0	-69.1
163.74	---	-63.46	---	---	500.0	100.0	107.0	V	288.0	-69.1
212.36	-49.79	---	-13.00	36.79	500.0	100.0	100.0	V	98.0	-76.5
212.36	---	-61.28	---	---	500.0	100.0	100.0	V	98.0	-76.5
260.06	-50.74	---	-13.00	37.74	500.0	100.0	143.0	H	189.0	-74.3
260.06	---	-62.53	---	---	500.0	100.0	143.0	H	189.0	-74.3
305.29	-49.52	---	-13.00	36.52	500.0	100.0	141.0	H	129.0	-73.7
305.29	---	-59.67	---	---	500.0	100.0	141.0	H	129.0	-73.7



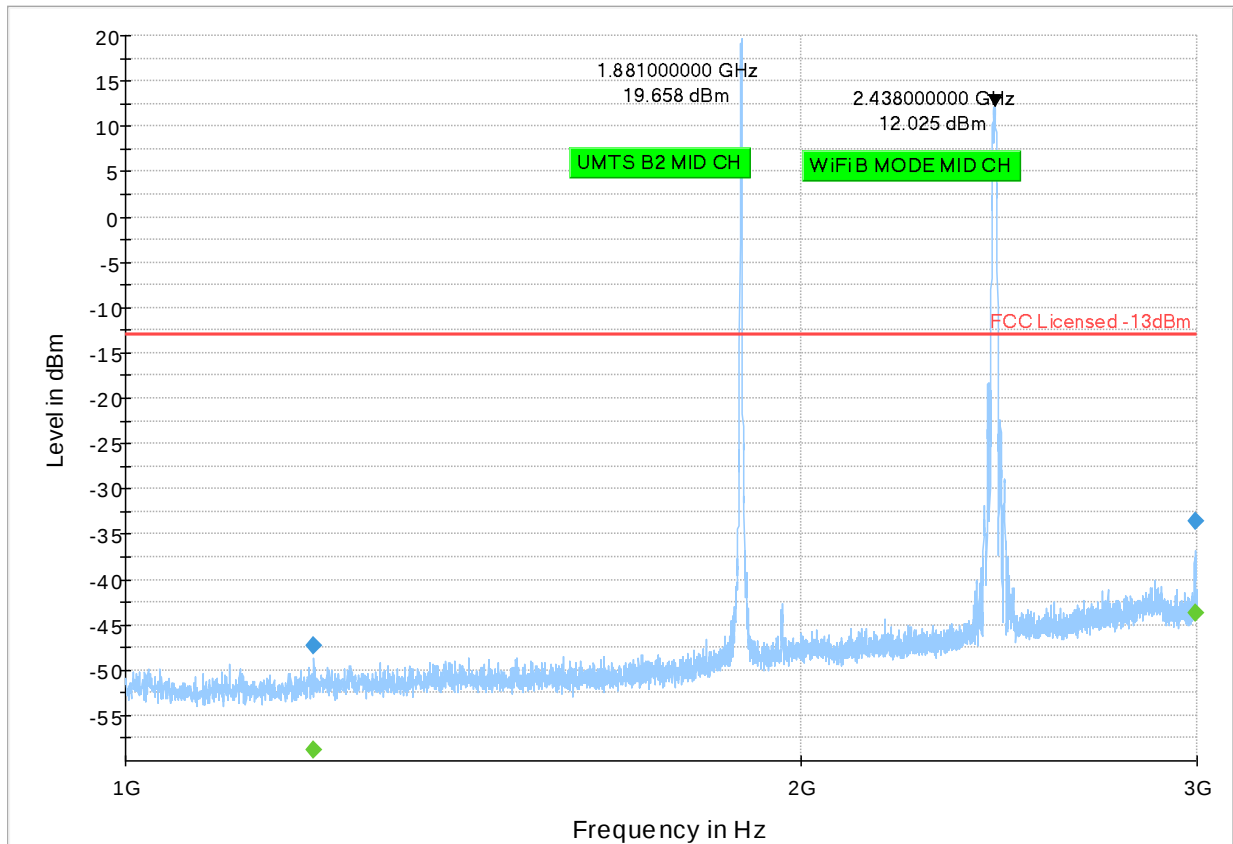
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #36 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid

LTE Band 12 + UMTS Band II +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1213.25	---	-58.84	---	---	500.0	1000.0	117.0	H	247.0	-66.8
1213.25	-47.27	---	-13.00	34.27	500.0	1000.0	117.0	H	247.0	-66.8
2994.75	---	-43.61	---	---	500.0	1000.0	100.0	H	35.0	-59.6
2994.75	-33.59	---	-13.00	20.59	500.0	1000.0	100.0	H	35.0	-59.6



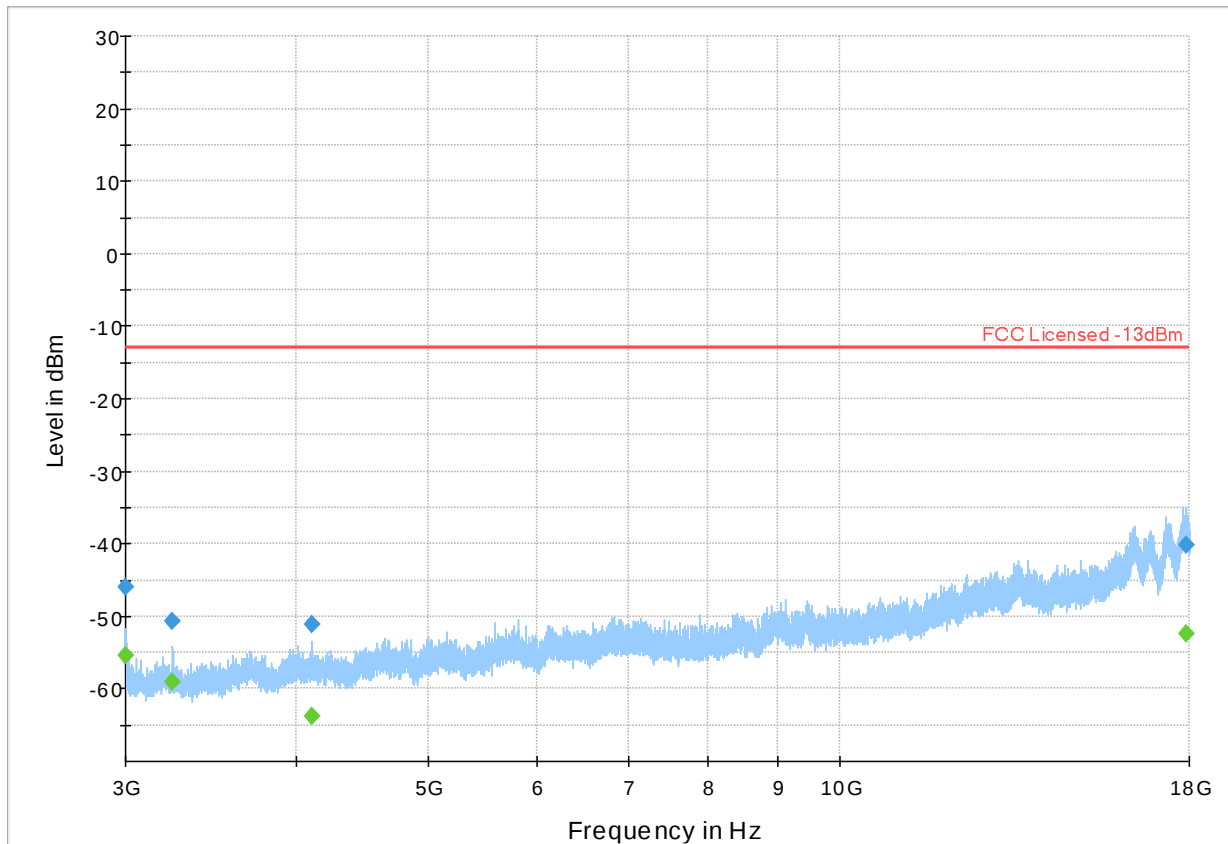
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #37 Radiated Emissions: 3 GHz - 18 GHz

Channel: Mid

LTE Band 12 + UMTS Band II +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3002.00	---	-55.49	---	---	500.0	1000.0	100.0	H	5.0	-102.9
3002.00	-45.97	---	-13.00	32.97	500.0	1000.0	100.0	H	5.0	-102.9
3249.00	---	-59.07	---	---	500.0	1000.0	160.0	H	54.0	-102.8
3249.00	-50.79	---	-13.00	37.79	500.0	1000.0	160.0	H	54.0	-102.8
4111.50	---	-63.74	---	---	500.0	1000.0	100.0	H	151.0	-99.6
4111.50	-51.22	---	-13.00	38.22	500.0	1000.0	100.0	H	151.0	-99.6
17886.50	---	-52.50	---	---	500.0	1000.0	307.0	V	275.0	-77.0
17886.50	-40.07	---	-13.00	27.07	500.0	1000.0	307.0	V	275.0	-77.0



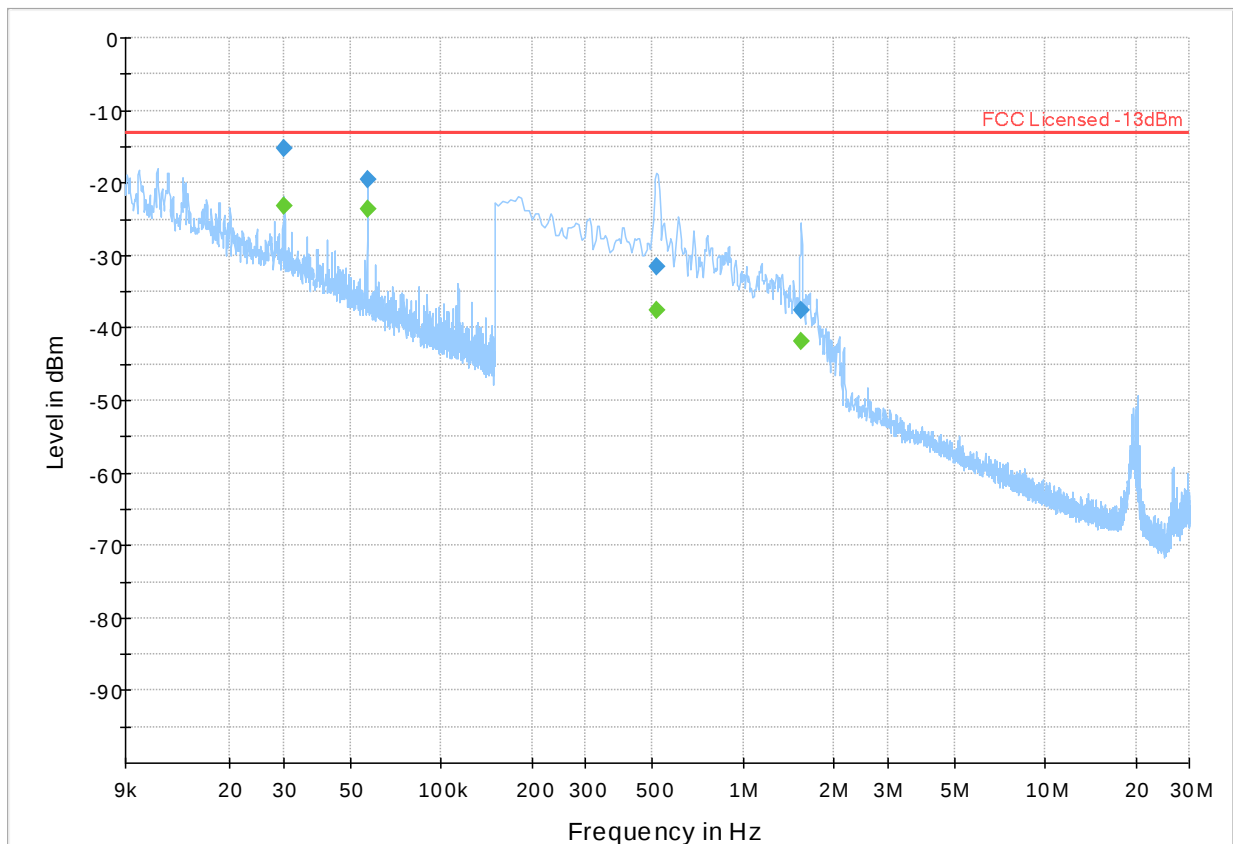
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #38 Radiated Emissions: 9 kHz - 30 MHz

Channel: Mid

LTE Band 13 + LTE Band 71 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.03	-15.29	---	-13.00	2.29	500.0	1.0	100.0	V	50.0	-73.3
0.03	---	-23.09	---	---	500.0	1.0	100.0	V	50.0	-73.3
0.06	-19.58	---	-13.00	6.58	500.0	1.0	100.0	H	347.0	-76.1
0.06	---	-23.51	---	---	500.0	1.0	100.0	H	347.0	-76.1
0.52	---	-37.55	---	---	500.0	1.0	100.0	V	50.0	-77.0
0.52	-31.56	---	-13.00	18.56	500.0	1.0	100.0	V	50.0	-77.0
1.56	---	-41.86	---	---	500.0	1.0	100.0	V	50.0	-76.9
1.56	-37.59	---	-13.00	24.59	500.0	1.0	100.0	V	50.0	-76.9



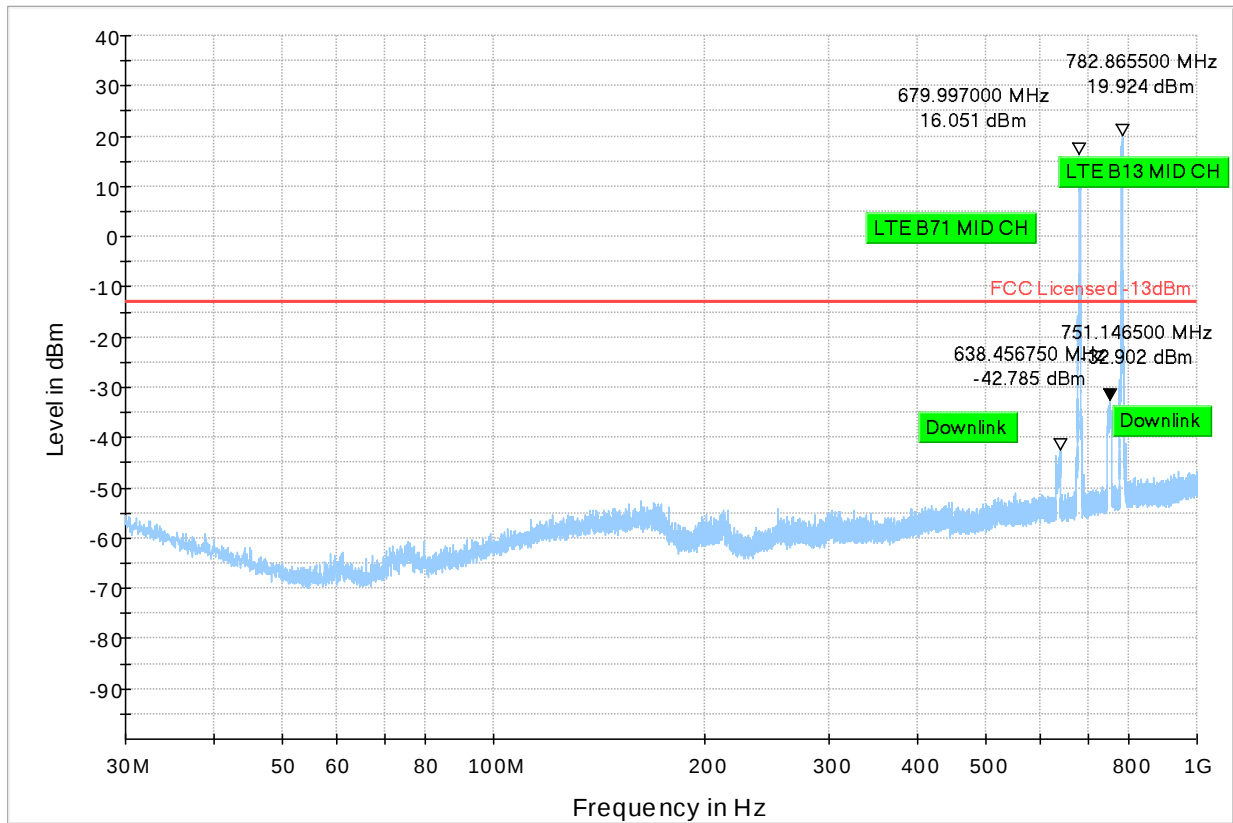
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #39 Radiated Emissions: 30 MHz - 1 GHz

Channel: Mid

LTE Band 13 + LTE Band 71 +Wi-Fi 2.4GHz

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



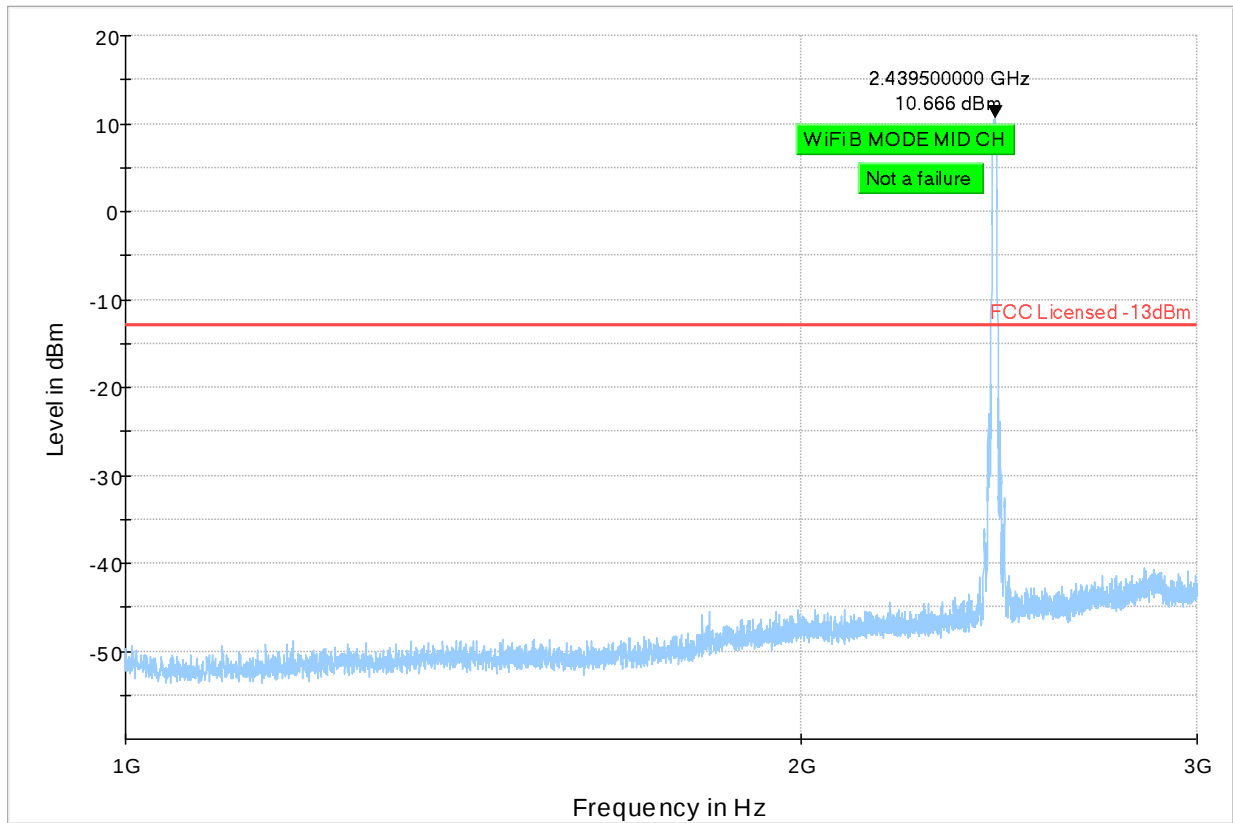
Preview Result 1-PK+ * Critical_Freqs PK+ FCC Licensed -13dBm
Final_Result PK+ ♦ Final_Result RMS

Plot #40 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid

LTE Band 13 + LTE Band 71 +Wi-Fi 2.4GHz

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



Preview Result 1-PK+
Final_Result PK+

* Critical_Freqs PK+
◆ Final_Result RMS

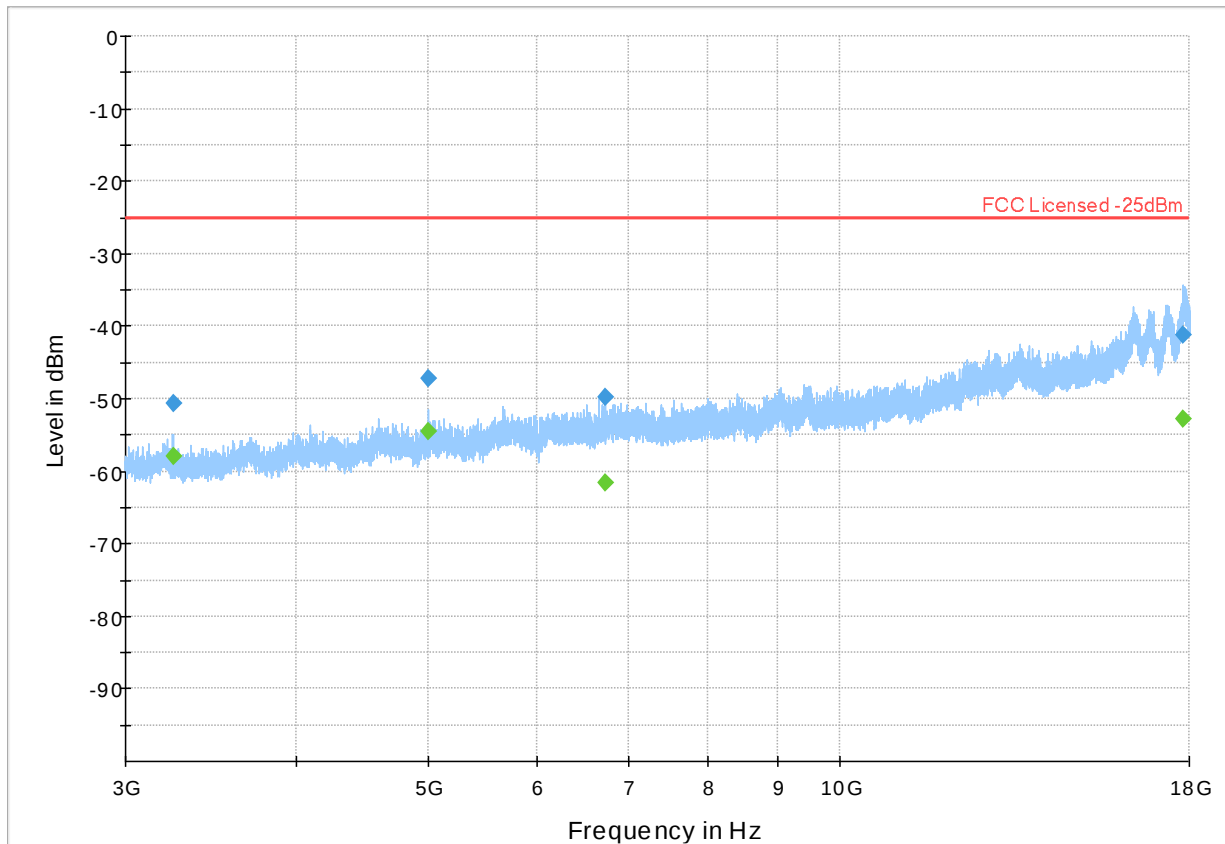
FCC Licensed -13dBm

Plot #41 Radiated Emissions: 3 GHz - 18 GHz

Channel: Mid

LTE Band 13 + LTE Band 71 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3249.25	---	-57.87	---	---	500.0	1000.0	218.0	H	24.0	-102.9
3249.25	-50.58	---	-25.00	25.58	500.0	1000.0	218.0	H	24.0	-102.9
5000.25	---	-54.49	---	---	500.0	1000.0	135.0	H	124.0	-98.5
5000.25	-47.15	---	-25.00	22.15	500.0	1000.0	135.0	H	124.0	-98.5
6733.75	-49.84	---	-25.00	24.84	500.0	1000.0	151.0	H	182.0	-95.8
6733.75	---	-61.51	---	---	500.0	1000.0	151.0	H	182.0	-95.8
17801.50	-41.21	---	-25.00	16.21	500.0	1000.0	100.0	H	203.0	-77.4
17801.50	---	-52.85	---	---	500.0	1000.0	100.0	H	203.0	-77.4

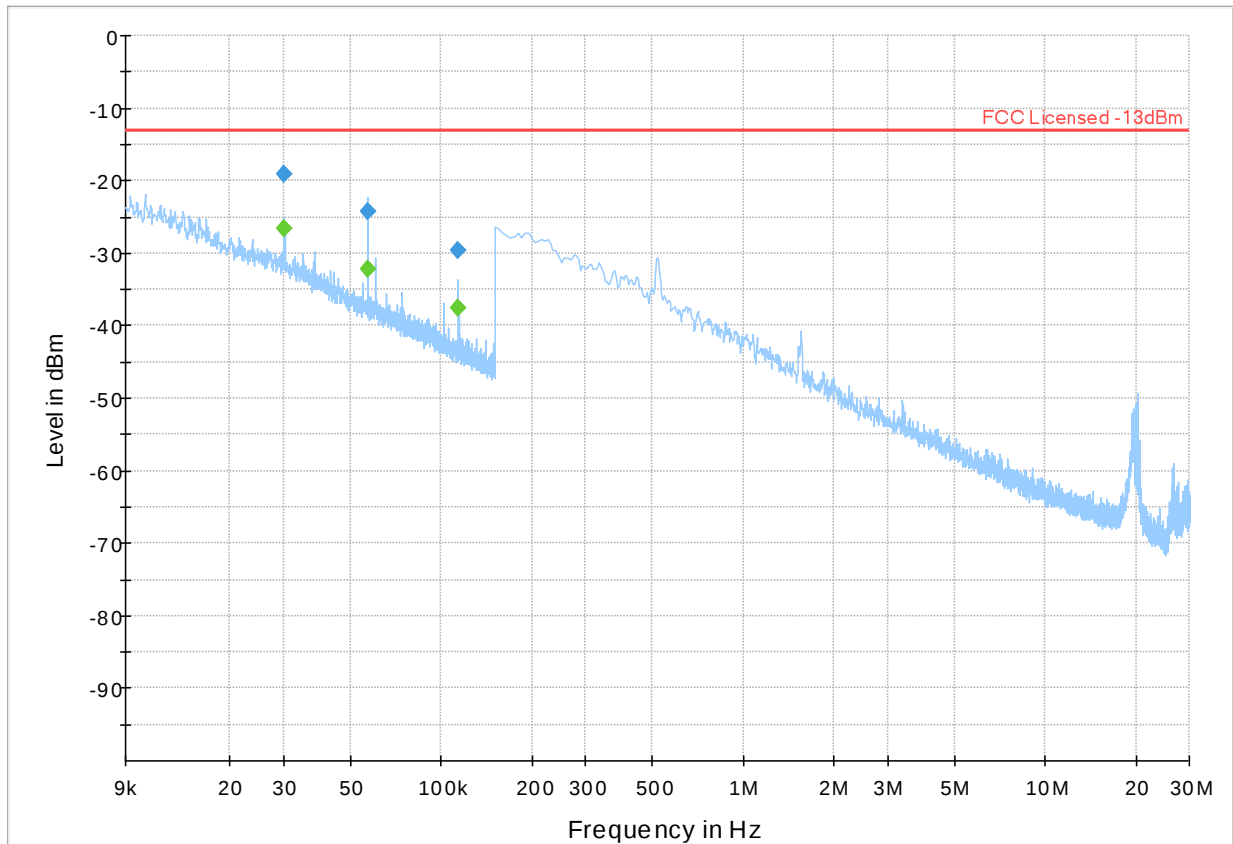


Plot #42 Radiated Emissions: 9 kHz - 30 MHz

Channel: Mid

LTE Band 14 + LTE Band 26 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.03	---	-26.54	---	---	500.0	1.0	100.0	H	107.0	-73.3
0.03	-19.10	---	-13.00	6.10	500.0	1.0	100.0	H	107.0	-73.3
0.06	---	-32.26	---	---	500.0	1.0	100.0	H	328.0	-76.1
0.06	-24.21	---	-13.00	11.21	500.0	1.0	100.0	H	328.0	-76.1
0.11	---	-37.52	---	---	500.0	1.0	100.0	V	58.0	-76.9
0.11	-29.67	---	-13.00	16.67	500.0	1.0	100.0	V	58.0	-76.9



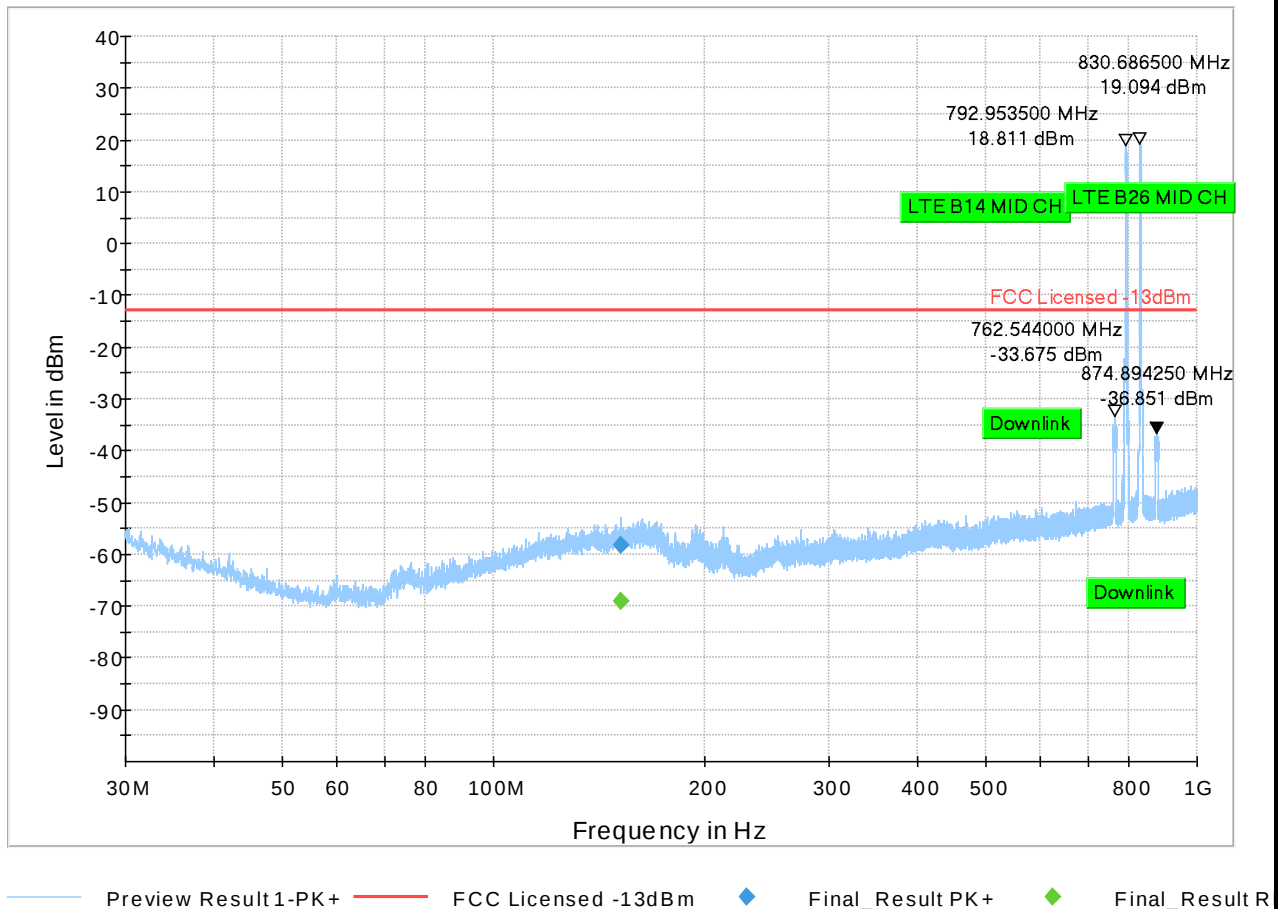
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #43 Radiated Emissions: 30 MHz - 1 GHz

Channel: Mid

LTE Band 14 + LTE Band 26 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
151.42	---	-69.01	---	---	500.0	100.0	100.0	V	148.0	-69.2
151.42	-58.12	---	-13.00	45.12	500.0	100.0	100.0	V	148.0	-69.2

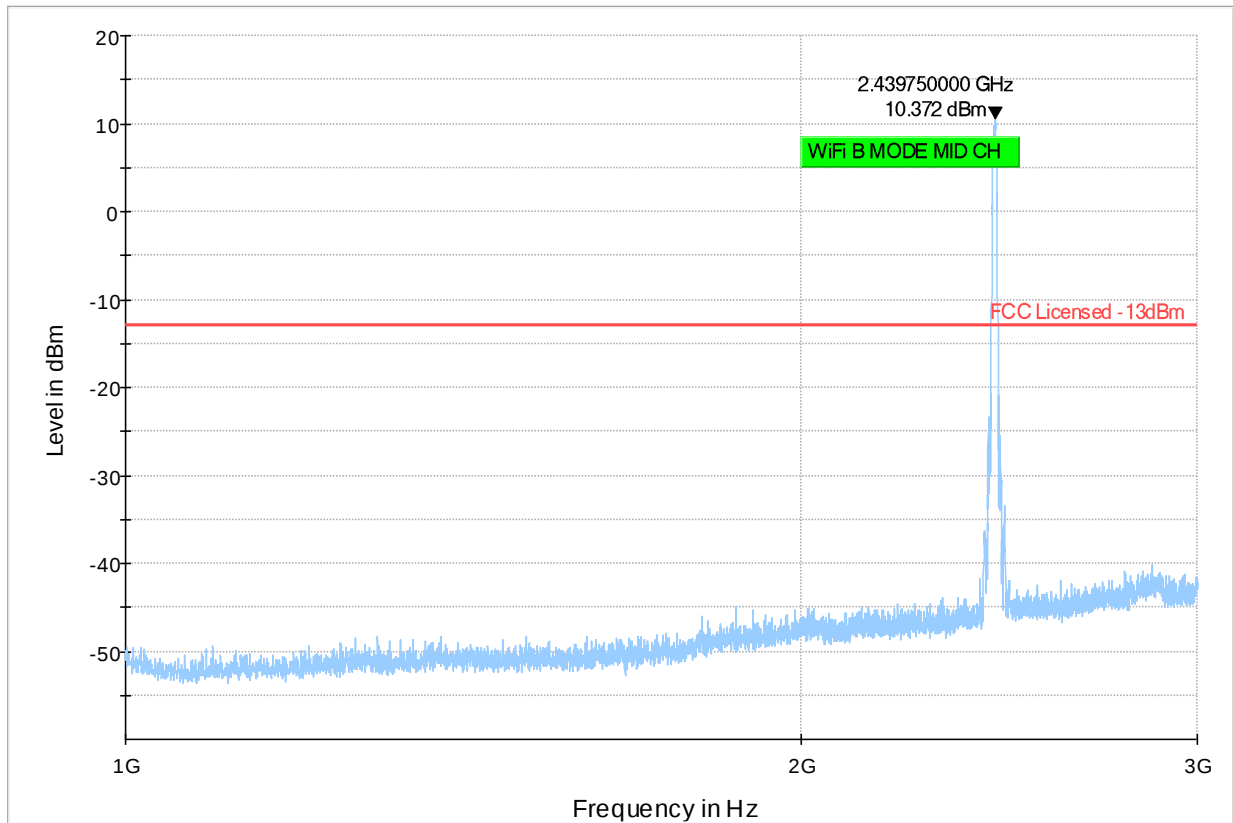


Plot #44 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid

LTE Band 14 + LTE Band 26 +Wi-Fi 2.4GHz

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



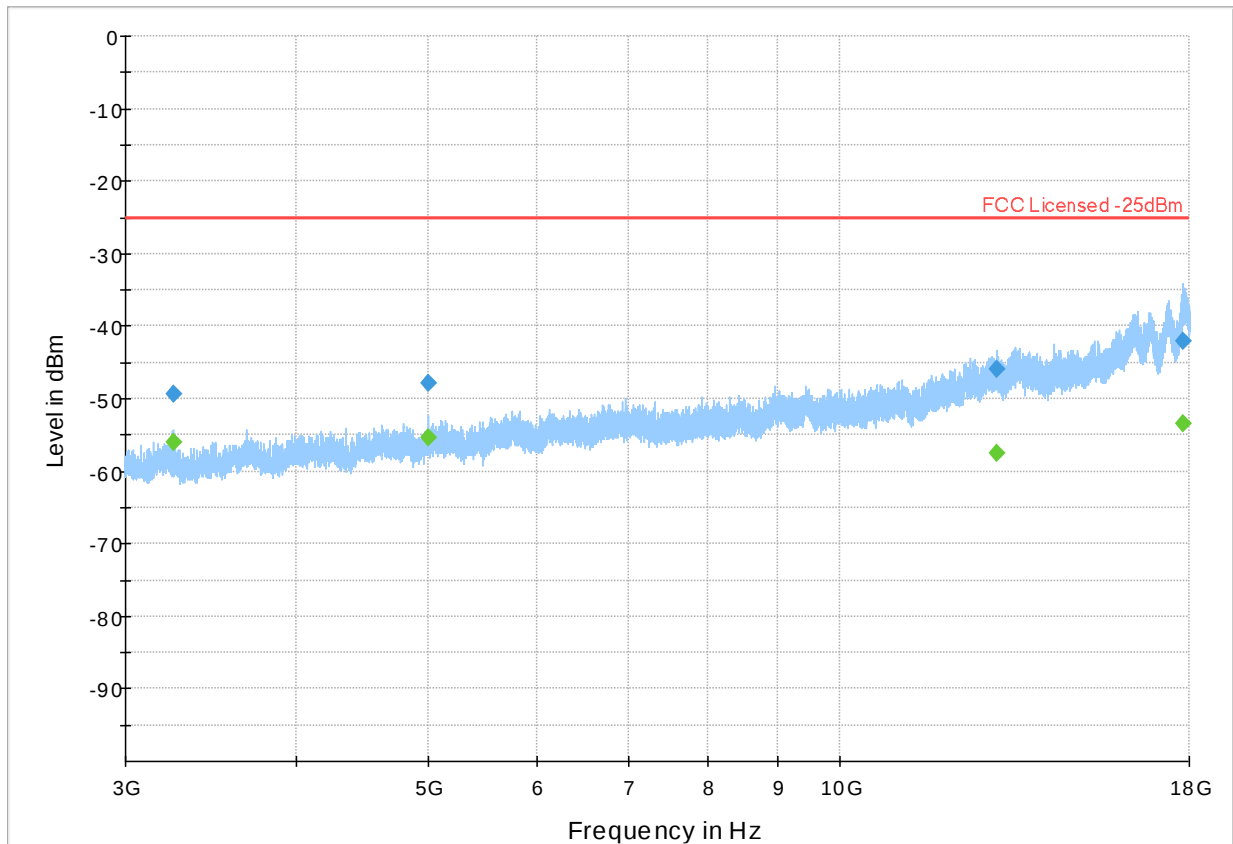
Preview Result 1-PK+ Final_Result PK+ Critical_Freqs PK+ Final_Result RMS FCC Licensed -13dBm

Plot #45 Radiated Emissions: 3 GHz - 18 GHz

Channel: Mid

LTE Band 14 + LTE Band 26 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3249.25	---	-56.02	---	---	500.0	1000.0	200.0	H	42.0	-102.9
3249.25	-49.45	---	-25.00	24.45	500.0	1000.0	200.0	H	42.0	-102.9
5000.00	---	-55.40	---	---	500.0	1000.0	212.0	H	122.0	-98.5
5000.00	-47.83	---	-25.00	22.83	500.0	1000.0	212.0	H	122.0	-98.5
13022.75	---	-57.45	---	---	500.0	1000.0	290.0	V	20.0	-86.3
13022.75	-45.90	---	-25.00	20.90	500.0	1000.0	290.0	V	20.0	-86.3
17819.50	---	-53.44	---	---	500.0	1000.0	134.0	V	335.0	-77.3
17819.50	-42.09	---	-25.00	17.09	500.0	1000.0	134.0	V	335.0	-77.3



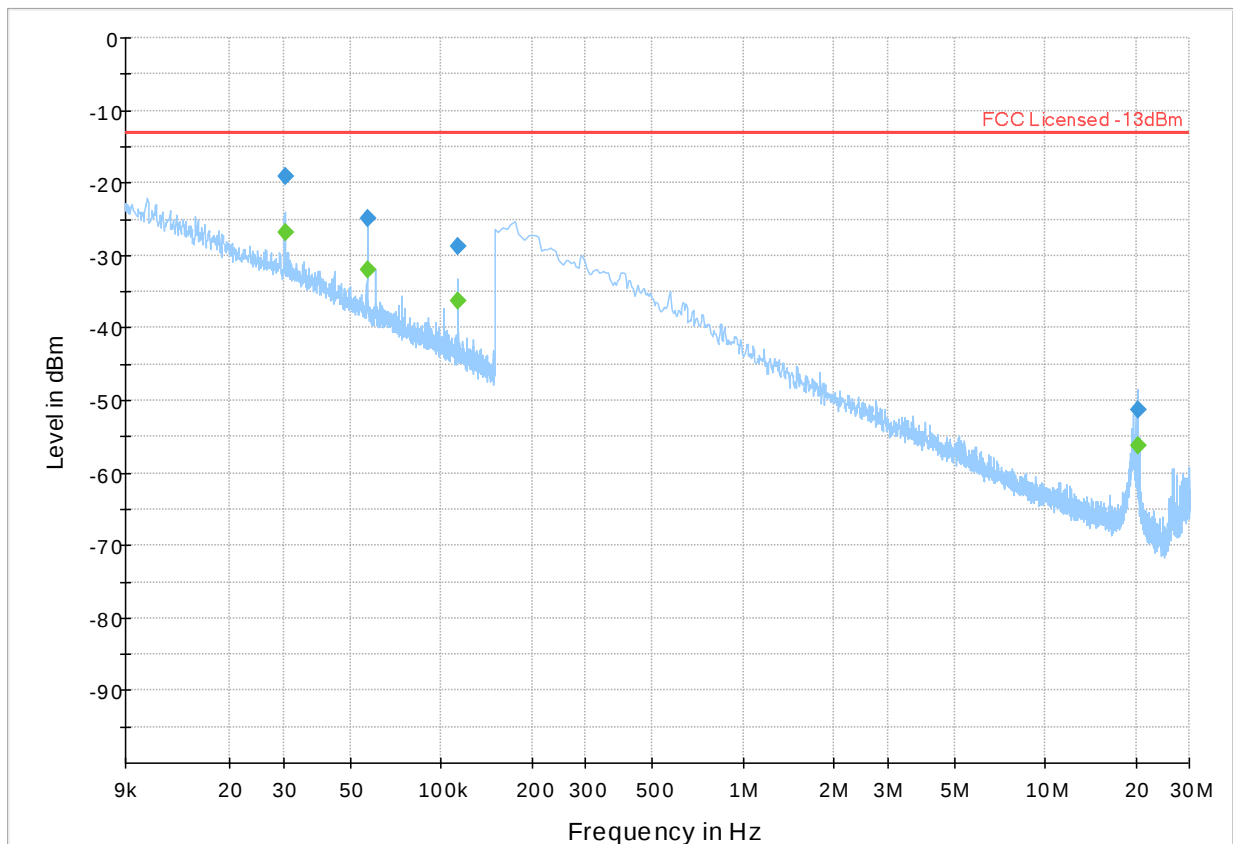
Preview Result 1-PK+ FCC Licensed -25dBm Final_Result PK+ Final_Result R

Plot #46 Radiated Emissions: 9 kHz - 30 MHz

Channel: Mid

LTE Band 25 + LTE Band 4 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.03	-19.06	---	-13.00	6.06	500.0	1.0	100.0	H	294.0	-73.3
0.03	---	-26.86	---	---	500.0	1.0	100.0	H	294.0	-73.3
0.06	-24.92	---	-13.00	11.93	500.0	1.0	100.0	H	19.0	-76.1
0.06	---	-32.08	---	---	500.0	1.0	100.0	H	19.0	-76.1
0.11	---	-36.24	---	---	500.0	1.0	100.0	V	52.0	-76.9
0.11	-28.71	---	-13.00	15.71	500.0	1.0	100.0	V	52.0	-76.9
20.21	---	-56.20	---	---	500.0	1.0	100.0	V	336.0	-78.8
20.21	-51.38	---	-13.00	38.38	500.0	1.0	100.0	V	336.0	-78.8



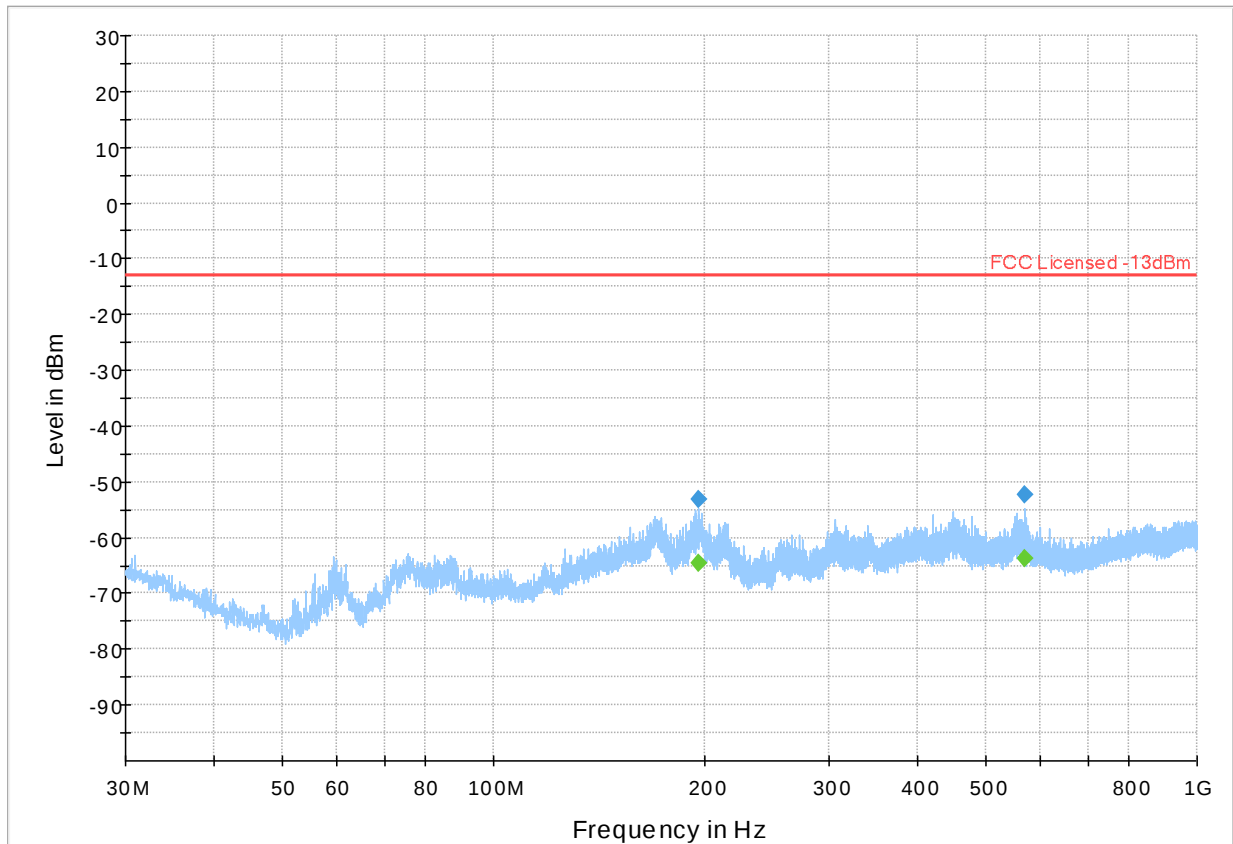
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #47 Radiated Emissions: 30 MHz - 1 GHz

Channel: Mid

LTE Band 25 + LTE Band 4 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
195.24	-53.13	---	-13.00	40.13	500.0	120.0	117.0	V	83.0	-75.7
195.24	---	-64.58	---	---	500.0	120.0	117.0	V	83.0	-75.7
567.53	-52.17	---	-13.00	39.17	500.0	120.0	107.0	H	78.0	-68.1
567.53	---	-63.71	---	---	500.0	120.0	107.0	H	78.0	-68.1



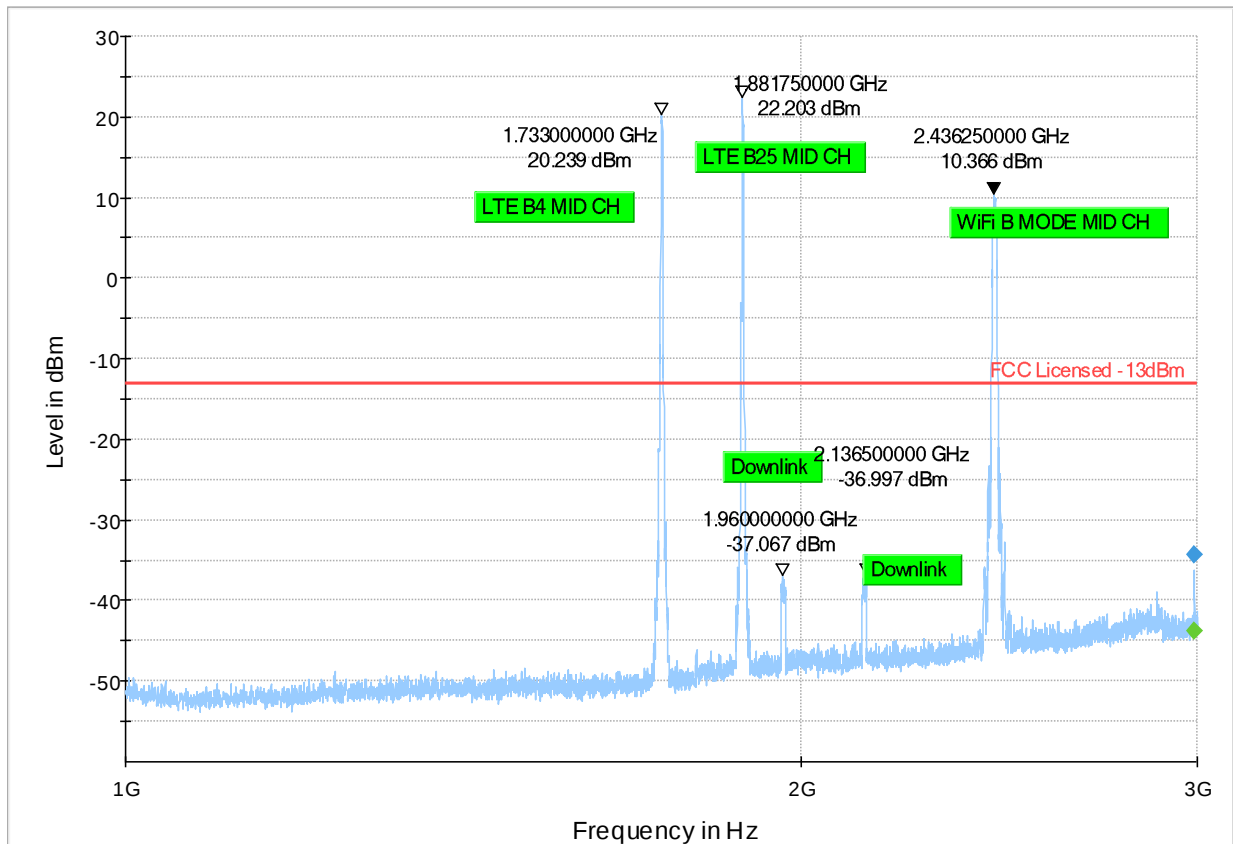
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #48 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid

LTE Band 25 + LTE Band 4 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2991.00	---	-43.79	---	---	500.0	1000.0	244.0	V	-15.0	-59.9
2991.00	-34.29	---	-13.00	21.29	500.0	1000.0	244.0	V	-15.0	-59.9



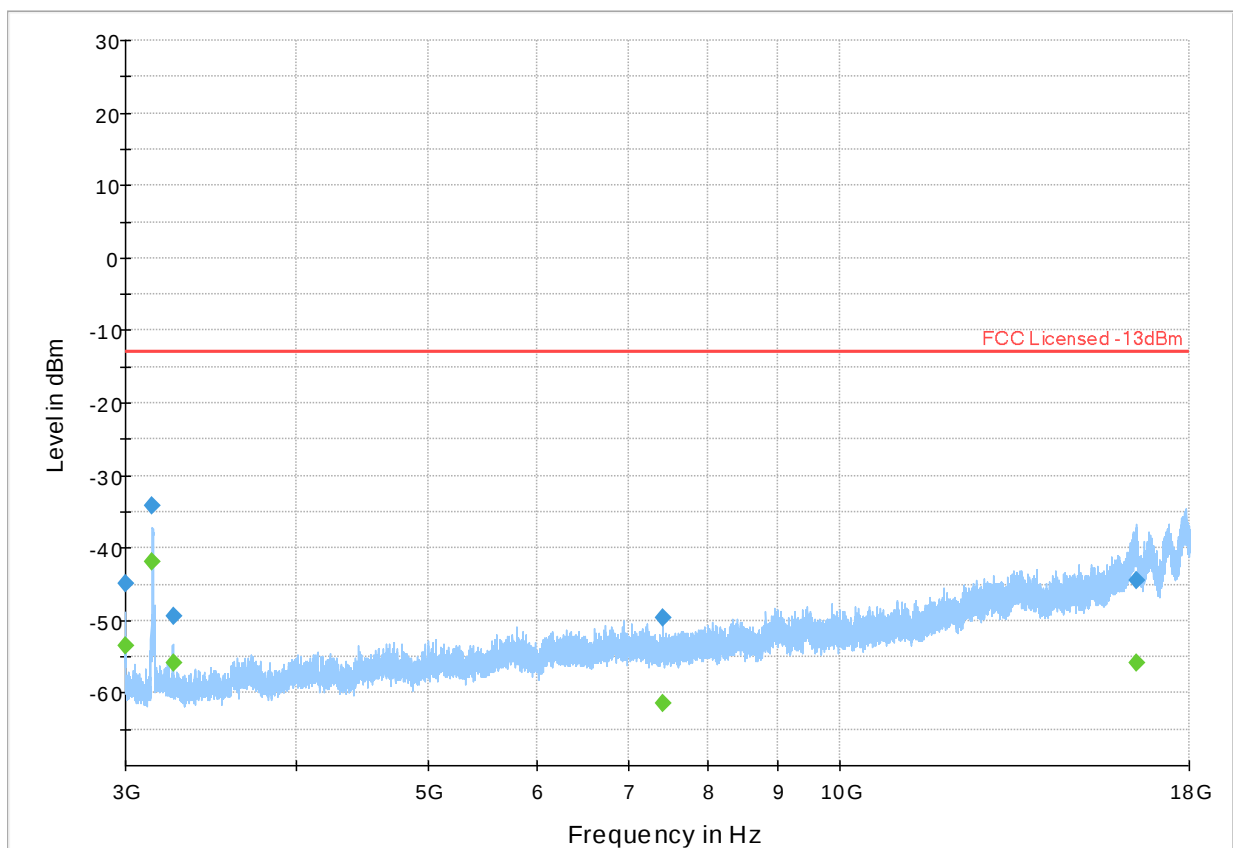
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result RM

Plot #49 Radiated Emissions: 3 GHz - 18 GHz

Channel: Mid

LTE Band 25 + LTE Band 4 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3000.00	---	-53.46	---	---	500.0	1000.0	107.0	H	3.0	-102.9
3000.00	-44.83	---	-13.00	31.83	500.0	1000.0	107.0	H	3.0	-102.9
3140.50	---	-41.99	---	---	500.0	1000.0	161.0	H	16.0	-103.1
3140.50	-34.25	---	-13.00	21.25	500.0	1000.0	161.0	H	16.0	-103.1
3249.25	---	-55.89	---	---	500.0	1000.0	116.0	H	42.0	-102.9
3249.25	-49.48	---	-13.00	36.48	500.0	1000.0	116.0	H	42.0	-102.9
7414.25	---	-61.41	---	---	500.0	1000.0	230.0	H	-5.0	-95.1
7414.25	-49.59	---	-13.00	36.59	500.0	1000.0	230.0	H	-5.0	-95.1
16468.50	---	-55.89	---	---	500.0	1000.0	142.0	V	165.0	-82.0
16468.50	-44.36	---	-13.00	31.36	500.0	1000.0	142.0	V	165.0	-82.0



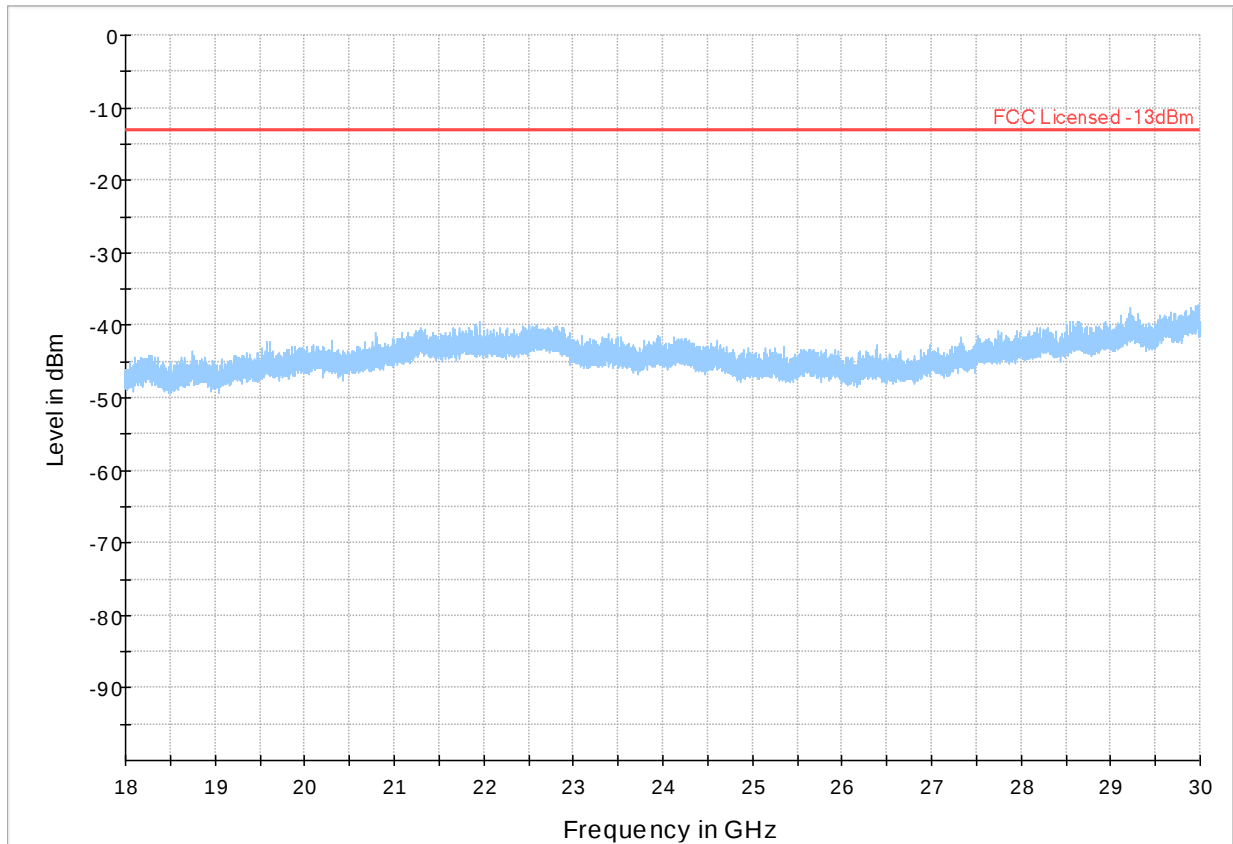
Preview Result1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #50 Radiated Emissions: 18 GHz - 30 GHz

Channel: Mid

LTE Band 25 + LTE Band 4 +Wi-Fi 2.4GHz

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



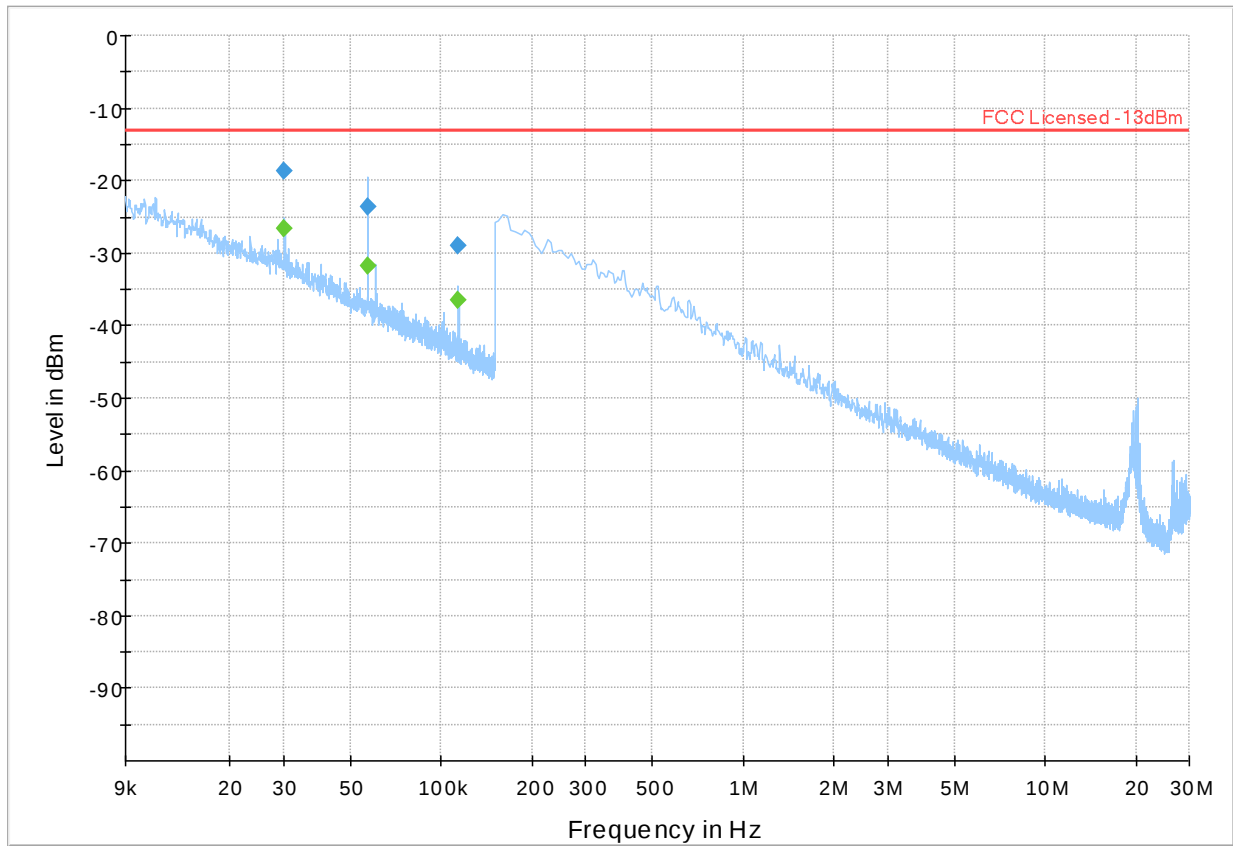
Preview Result1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #51 Radiated Emissions: 9 kHz - 30 MHz

Channel: Mid

LTE Band 26 + LTE Band 41 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.03	---	-26.52	---	---	500.0	1.0	100.0	H	18.0	-73.3
0.03	-18.74	---	-13.00	5.74	500.0	1.0	100.0	H	18.0	-73.3
0.06	---	-31.77	---	---	500.0	1.0	100.0	H	325.0	-76.1
0.06	-23.56	---	-13.00	10.56	500.0	1.0	100.0	H	325.0	-76.1
0.11	---	-36.57	---	---	500.0	1.0	100.0	V	181.0	-76.9
0.11	-28.86	---	-13.00	15.86	500.0	1.0	100.0	V	181.0	-76.9



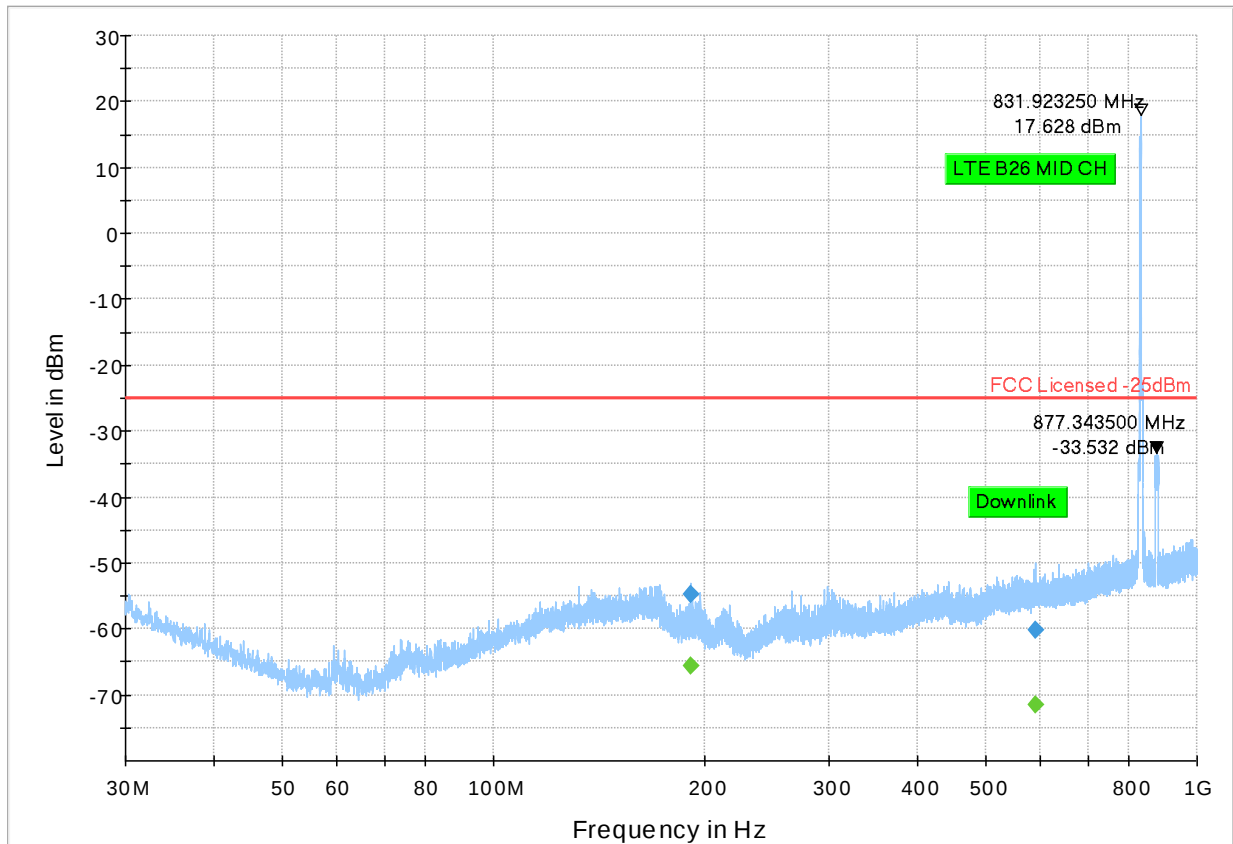
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result R

Plot #52 Radiated Emissions: 30 MHz - 1 GHz

Channel: Mid

LTE Band 26 + LTE Band 41 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
191.19	-54.78	---	-25.00	29.78	500.0	100.0	142.0	V	86.0	-75.1
191.19	---	-65.60	---	---	500.0	100.0	142.0	V	86.0	-75.1
590.73	-60.28	---	-25.00	35.28	500.0	100.0	179.0	H	136.0	-67.3
590.73	---	-71.51	---	---	500.0	100.0	179.0	H	136.0	-67.3



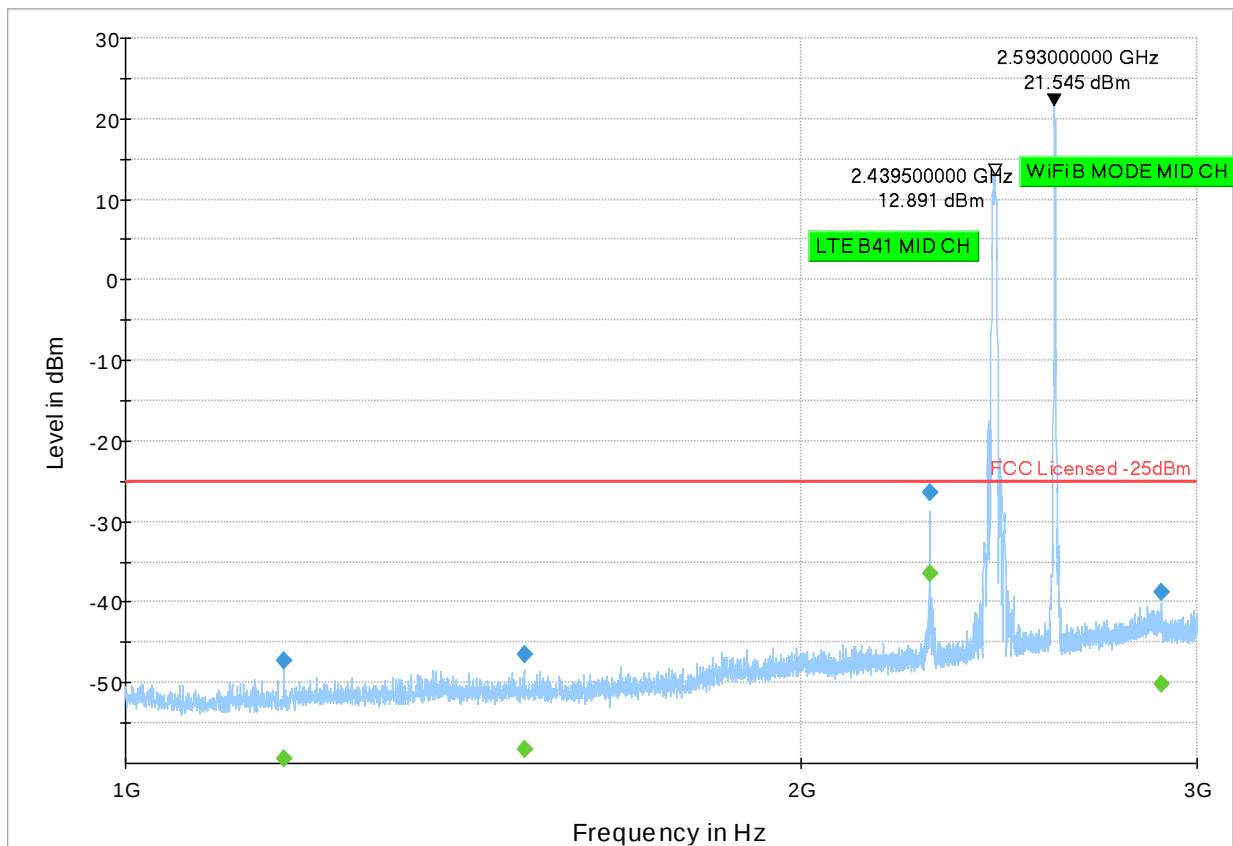
Preview Result 1-PK+ FCC Licensed -25dBm Final_Result PK+ Final_Result R

Plot #53 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid

LTE Band 26 + LTE Band 41 +Wi-Fi 2.4GHz

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1177.00	---	-59.36	---	---	500.0	1000.0	289.0	H	-12.0	-67.4
1177.00	-47.18	---	-25.00	22.18	500.0	1000.0	289.0	H	-12.0	-67.4
1504.50	---	-58.29	---	---	500.0	1000.0	226.0	H	57.0	-66.2
1504.50	-46.44	---	-25.00	21.44	500.0	1000.0	226.0	H	57.0	-66.2
2281.00	---	-36.37	---	---	500.0	1000.0	142.0	H	338.0	-62.8
2281.00	-26.32	---	-25.00	1.32	500.0	1000.0	142.0	H	338.0	-62.8
2892.75	---	-50.07	---	---	500.0	1000.0	150.0	V	68.0	-60.5
2892.75	-38.80	---	-25.00	13.80	500.0	1000.0	150.0	V	68.0	-60.5



Preview Result 1-PK+ FCC Licensed -25dBm Final_Result PK+ Final_Result R