



FCC / ISED Test Report

For:

Astronautics Corporation of America

Marketing Name:

Astronautics M2-JODY-W3 WIFI Radio

Model Number:

ACA-M2-JODY-W377-00B

Product Description:

Astronautics M2-JODY-W3 WIFI Radio

FCC ID: 2AVRR-JODYW377

IC: 25923-JODYW377

Applied Rules and Standards:

47 CFR Parts 22, 24, 27, 90

RSS: 130 Issue 2, 132 Issue 4, 133 Issue 7, 139 Issue 4, 199 Issue 4

REPORT #: EMC_ASTRO_069_25001_FCC_22_24_27_90_Rev1

DATE: 2025-09-26



A2LA Accredited

IC recognized #
3462B

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

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1 Assessment

The following device as further described in section 3 of this report was evaluated against the applicable criteria specified in the Code of Federal Regulations Title 47 parts 22, 24, 27, 90 and Industry Canada Standards RSS-GEN issue 5, RSS-130 issue 2, RSS-132 issue 4, RSS-133 issue 7, RSS-139 issue 4 and RSS-199 issue 4.

No deficiencies were ascertained.

Company	Description	Model #
Astronautics Corporation of America	Astronautics M2-JODY-W3 WIFI Radio	ACA-M2-JODY-W377-00B

Report Reviewer:

Alvin, Ilarina
(Senior Manager Regulatory
Services)

2025-09-26

Compliance

Date	Section	Name	Signature
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Responsible for the Report:

Cheng Song
(EMC Engineer)

2025-09-26

Compliance

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:	Alvin, Ilarina
Responsible Project Leader:	Jayalakshmi, Sekar

2.2 Identification of the Client

Client Firm/Name:	Astronautics Corporation of America
Street Address:	135 W Forest Hill Ave.
City/Zip Code	Oak Creek WI 53154
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 Number(s):	ACA-M2-JODY-W377-00B
Marketing Name	Astronautics M2-JODY-W3 WIFI Radio
HW Version	ACA-JODY-W377-00B
SW Version	N/A
FCC ID	2AVRR-JODYW377
IC	25923-JODYW377
Product Description:	Astronautics M2-JODY-W3 WIFI Radio
Radio Information as declared:	Cellular Model Name: Telit Cinterion Model Number: FN990A40 Wireless Technologies: • 5G NR FR1 NSA • 5G NR FR1 SA • LTE • UMTS
	WLAN Model Name: u-blox AG Model Number : M2-JODY-W377-00C Wireless Technologies: • Wi-Fi 2.4GHz • Wi-Fi 5GHz
Antenna information as declared:	2G/3G/4G/5G Terminal Antenna Manufacturer: Panorama Antennas Part No. PWB-6-60-RSMAP Peak Gain: • 698 – 960 MHz : 2dBi • 1710 – 3800 MHz : 4dBi • 4400 – 6000 MHz : 6dBi
	WLAN Antenna Monopole Whip Antenna Peak Gain: • 2.4 GHz: 7.7dBi • 5.15 GHz: 5.4dBi • 5.9 GHz: 6dBi
Power Supply / Rated Operating Voltage Range (min/nom/max):	Vmin: 18.5 VDC / Vnom: 28 VDC / Vmax: 36 VDC
Rated Operating Temperature Range:	Tmin: -40 °C / Tmax: +70 °C

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

3.2 EUT Sample details

EUT #	Serial Number	HW Version	SW Version	Notes
1	53098030625	ACA-JODY-W377-00B	N/A	N/A

3.3 Accessory Equipment (AE) details

AE #	Type	PN	Manufacturer	Serial Number
1	Communication Unit	284438 REV1	Astronautics Corporation of America	019

3.4 Test Sample Configuration

Set-up #	EUT / AE used for set-up	Comments
1	EUT#1 + AE#1	

3.5 Mode of Operation details

Mode of Operation	Description of Operating modes	Additional Information
Op. 1	Cellular and 802.11b (20 MHz, 1 Mbit/s) Co-Transmission Testing	Cellular performance was tested on low, mid, and high channels at maximum power in co-transmission mode with the 2.4 GHz Wi-Fi radio. The Wi-Fi radio was configured to 802.11b, 20 MHz bandwidth, and a 1 Mbit/s data rate on the mid channel, using special commands executed via a client-provided command window. These commands are not accessible to the end user. Co-transmission was evaluated with the 2.4 GHz Wi-Fi radio because, with the installed antenna, it yields the highest WLAN EIRP and therefore represents the worst-case simultaneous-transmit condition; see justification in Section 3.6.

3.6 Justification for Mode of Operation

Justification for WLAN band selection in co-transmission

Co-transmission with the cellular transmitter was exercised using 2.4 GHz Wi-Fi (802.11b, 20 MHz, 1 Mb/s) because this configuration is worst-case for radiated spurious emissions:

- The declared WLAN antenna peak gains are 7.7 dBi @ 2.4 GHz versus 5.4–6.0 dBi @ 5 GHz, resulting in a higher composite EIRP at 2.4 GHz for the WLAN path.
- Per the applicable WLAN certification reports, the maximum average conducted power for the 2.4 GHz mode equals or exceeds the 5 GHz modes used with this host.

Consequently, 2.4 GHz represents the worst-case simultaneous-transmit condition with the licensed transmitter. Because all licensed-band RSE results comply under this worst case, additional co-transmission testing with 5 GHz was not required.

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 and ISSED Standards RSS-132 issue 3, RSS-133 issue 7, RSS-139 issue 4 and RSS-199 Issue 4.

5 Measurement Uncertainty

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

Radiated measurement

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

RF conducted measurement ± 0.5 dB

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

5.1 Environmental Conditions During Testing:

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

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

5.2 Dates of Testing:

6/18/2025 - 6/28/2025

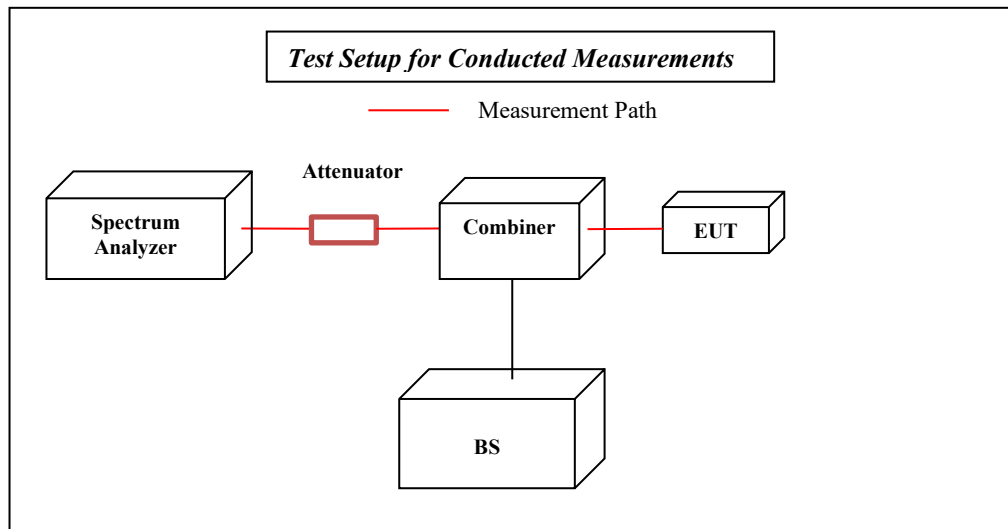
5.3 Decision Rule:

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

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

6 Measurement Procedures

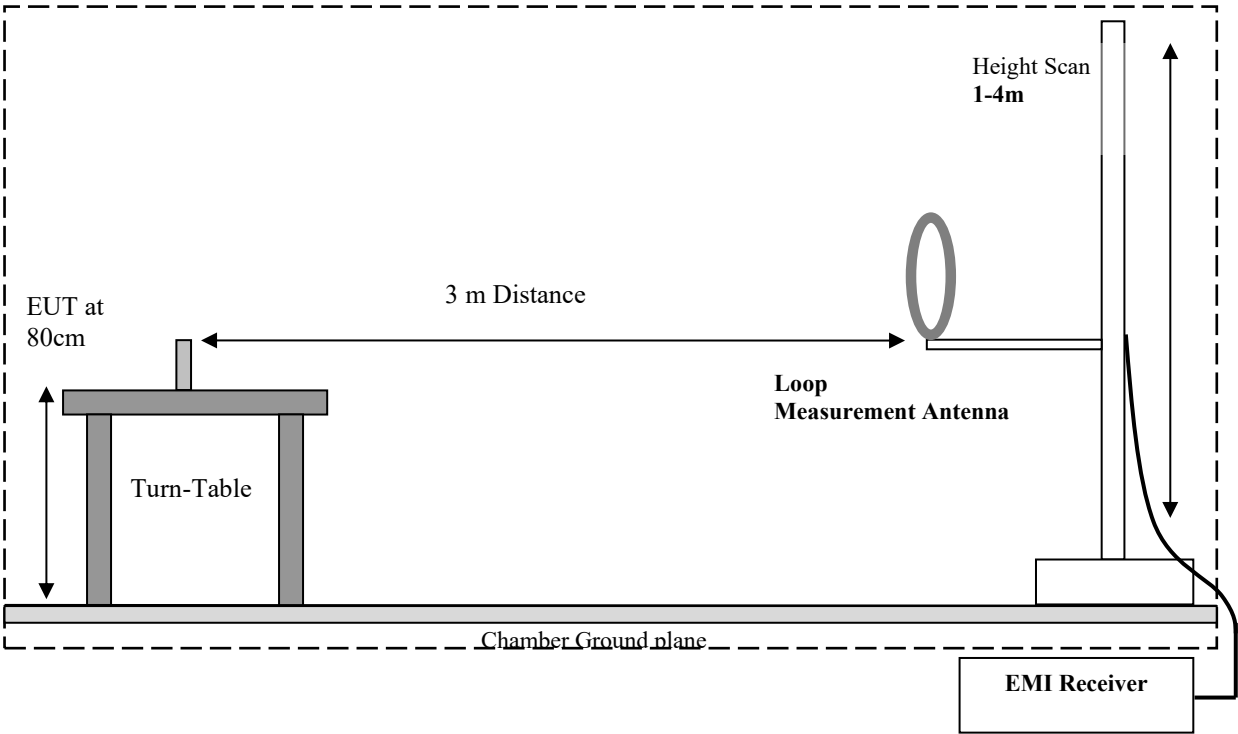
Testing is performed according to the guidelines provided in FCC publication (KDB) 971168 D01 v03r01 – “Measurement Guidance for Certification of Licensed Digital Transmitters” and according to relevant parts of ANSI/TIA-603-D-2010 as detailed below.



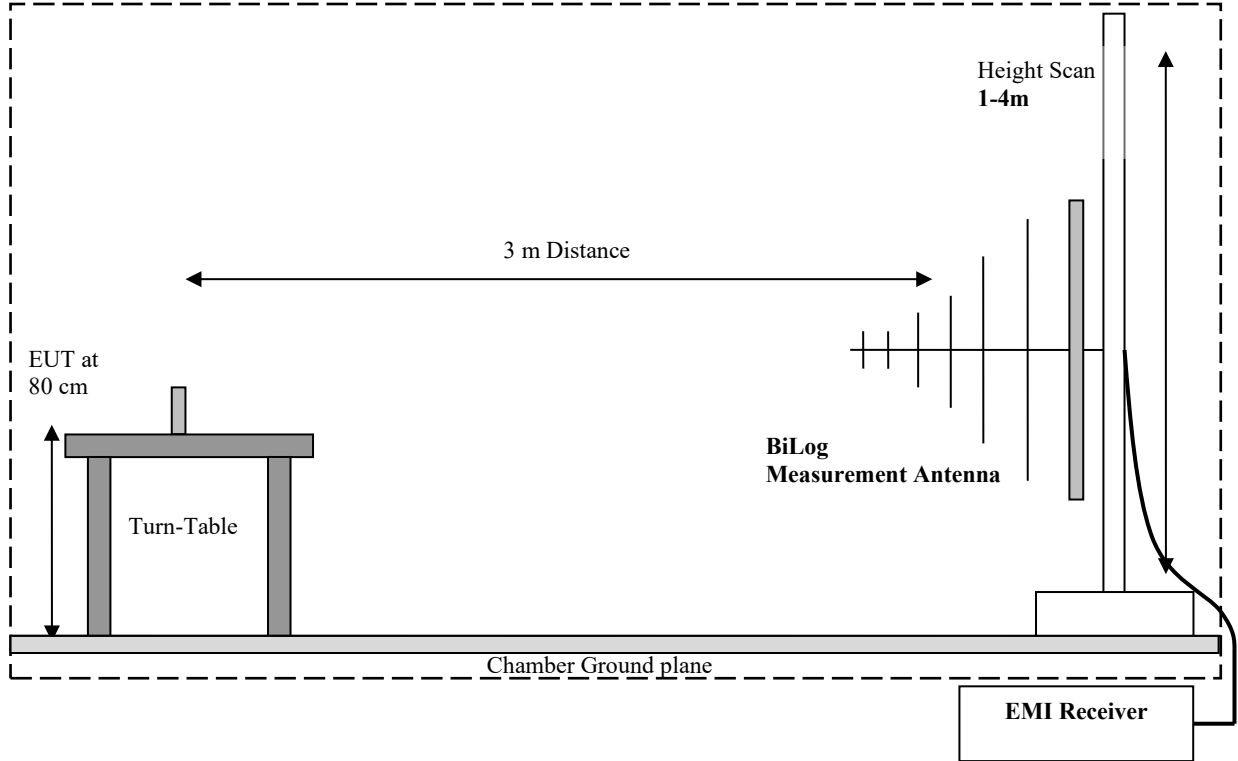
6.1 Radiated Measurement

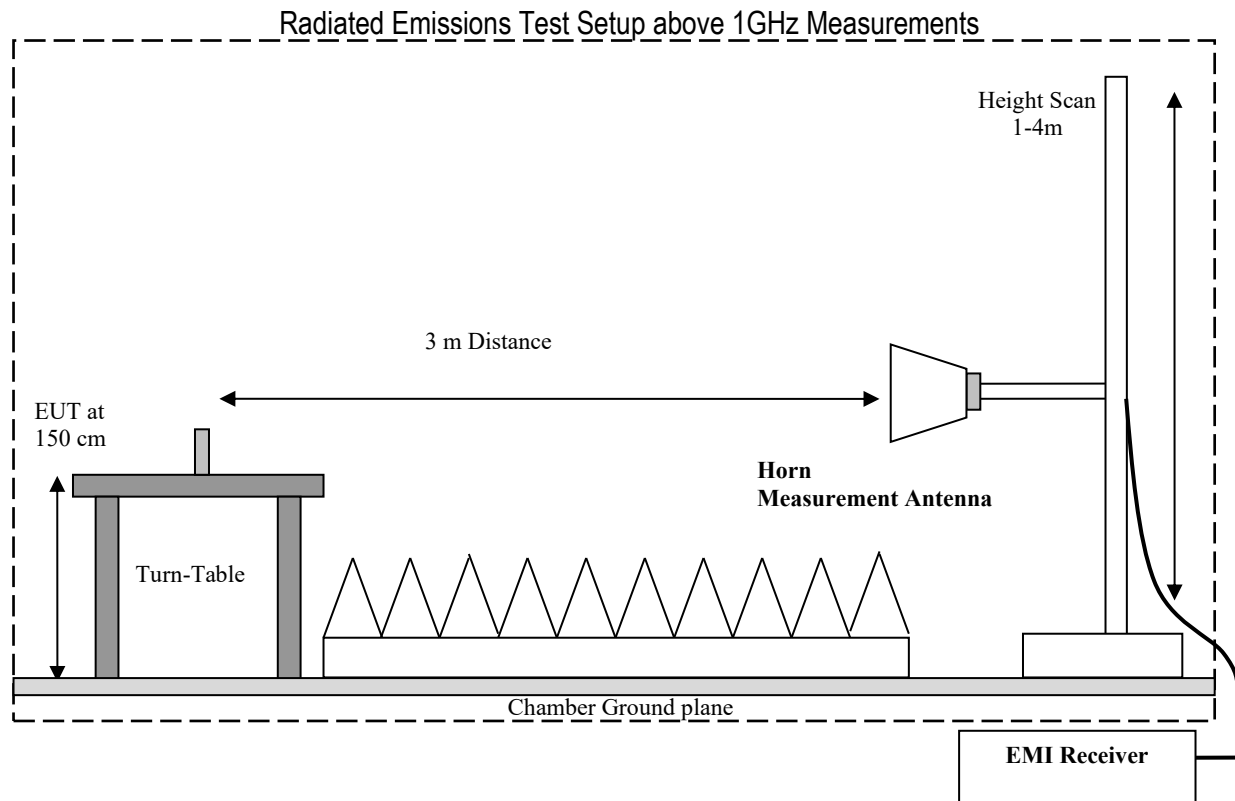
- The exploratory measurement is accomplished by running a matrix of 16 sweeps over the required frequency range with R&S Test-SW EMC32 for 4 positions of the turntable, two orthogonal positions of the EUT and both antenna polarizations. This procedure exceeds the requirement of the above standards to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

Radiated Emissions Test Setup below 30MHz Measurements



Radiated Emissions Test Setup 30MHz-1GHz Measurements





6.2 Sample Calculations for Field Strength Measurements

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

- Measured reading in $\text{dB}\mu\text{V}$
- 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:

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

Example:

Frequency (MHz)	Measured SA ($\text{dB}\mu\text{V}$)	Cable Loss (dB)	Antenna Factor Correction (dB)	Field Strength Result ($\text{dB}\mu\text{V/m}$)
1000	80.5	3.5	14	98.0

7 Measurement Results Summary

7.1 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	-	☐	☐	☐	☒	Note 1 Note 2
§2.1055; §22.355	Frequency Tolerance	Extreme Temperature and Voltage	-	☐	☐	☐	☒	Note 1 Note 2
§2.1049; §22.917	Occupied Bandwidth	Nominal	-	☐	☐	☐	☒	Note 1 Note 2
§2.1051; §22.917	Band Edge Compliance	Nominal	-	☐	☐	☐	☒	Note 1 Note 2
§2.1051; §22.917	Conducted Spurious Emissions	Nominal	-	☐	☐	☐	☒	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: Detailed measurement results for certain test cases are derived from the module certification of the Telit Cinterion FN990A40 (FCC ID: RI7FN990A40; IC: 5131A-FN990A40).

7.2 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	-	☐	☐	☐	☒	Note 1 Note 2
§2.1055; §24.235	Frequency Stability	Extreme Temperature and Voltage	-	☐	☐	☐	☒	Note 1 Note 2
§2.1049; §24.238	Occupied Bandwidth	Nominal	-	☐	☐	☐	☒	Note 1 Note 2
§2.1051; §24.238	Band Edge Compliance	Nominal	-	☐	☐	☐	☒	Note 1 Note 2
§2.1051; §24.238	Conducted Spurious Emissions	Nominal	-	☐	☐	☐	☒	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: Detailed measurement results for certain test cases are derived from the module certification of the Telit Cinterion FN990A40 (FCC ID: RI7FN990A40; IC: 5131A-FN990A40).

7.3 FCC 27 / RSS-130 / RSS-132 / 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	-	☐	☐	☐	■	Note 1 Note 2
§2.1055; §27.54	Frequency Stability	Extreme Temperature and Voltage	-	☐	☐	☐	■	Note 1 Note 2
§2.1049; §27.53	Occupied Bandwidth	Nominal	-	☐	☐	☐	■	Note 1 Note 2
§2.1051; §27.53	Band Edge Compliance	Nominal	-	☐	☐	☐	■	Note 1 Note 2
§2.1051; §27.53	Conducted Spurious Emissions	Nominal	-	☐	☐	☐	■	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: Detailed measurement results for certain test cases are derived from the module certification of the Telit Cinterion FN990A40 (FCC ID: RI7FN990A40; IC: 5131A-FN990A40).

7.4 FCC 90 / RSS-132

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§2.1046; §90.635(b)	RF Output Power	Nominal	-	☐	☐	☐	■	Note 1 Note 2
§90.635(b)	Effective Radiated Power	Nominal	-	☐	☐	☐	■	Note 1 Note 2
§2.1055; §90.213	Frequency Stability	Extreme Temperature and Voltage	-	☐	☐	☐	■	Note 1 Note 2
§2.1049; §90.209	Occupied Bandwidth	Nominal	-	☐	☐	☐	■	Note 1 Note 2
§2.1051; §90.691	Emission Masks	Nominal	-	☐	☐	☐	■	Note 1 Note 2
§2.1051; §90.691	Spurious Emissions at Antenna Terminals	Nominal	-	☐	☐	☐	■	Note 1 Note 2
§2.1053; §90.691	Radiated Spurious Emissions	Nominal	Op. 1	■	☐	☐	☐	Complies

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

Note 2: Detailed measurement results for certain test cases are derived from the module certification of the Telit Cinterion FN990A40 (FCC ID: RI7FN990A40; IC: 5131A-FN990A40).

8 Test Result Data

8.1 Radiated Spurious Emissions

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

Spectrum Analyzer Settings for FCC 22

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

Spectrum Analyzer Settings for FCC 24 and 27

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

8.1.2 Limits:

- 8.1.2.1 FCC Part 22.917 (a); FCC Part 24.238 (a); FCC Part 27.53 (c); FCC Part 27.53 (g); FCC Part 27.53 (h) and FCC Part 90.691 (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

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

- 8.1.2.2 RSS-130 Part 4.7, RSS-132 Part 5.5; RSS-133 Part 5.6; RSS-139 Part 5.6; RSS-199 Part 5.6 Transmitter Unwanted Emissions

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

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

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

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

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

8.1.3 Test conditions and setup:

Ambient Temperature (°C)	EUT Set-Up #	EUT operating mode	Power Input
22.0	1	Op. 1	120 V AC

8.1.4 Measurement result:

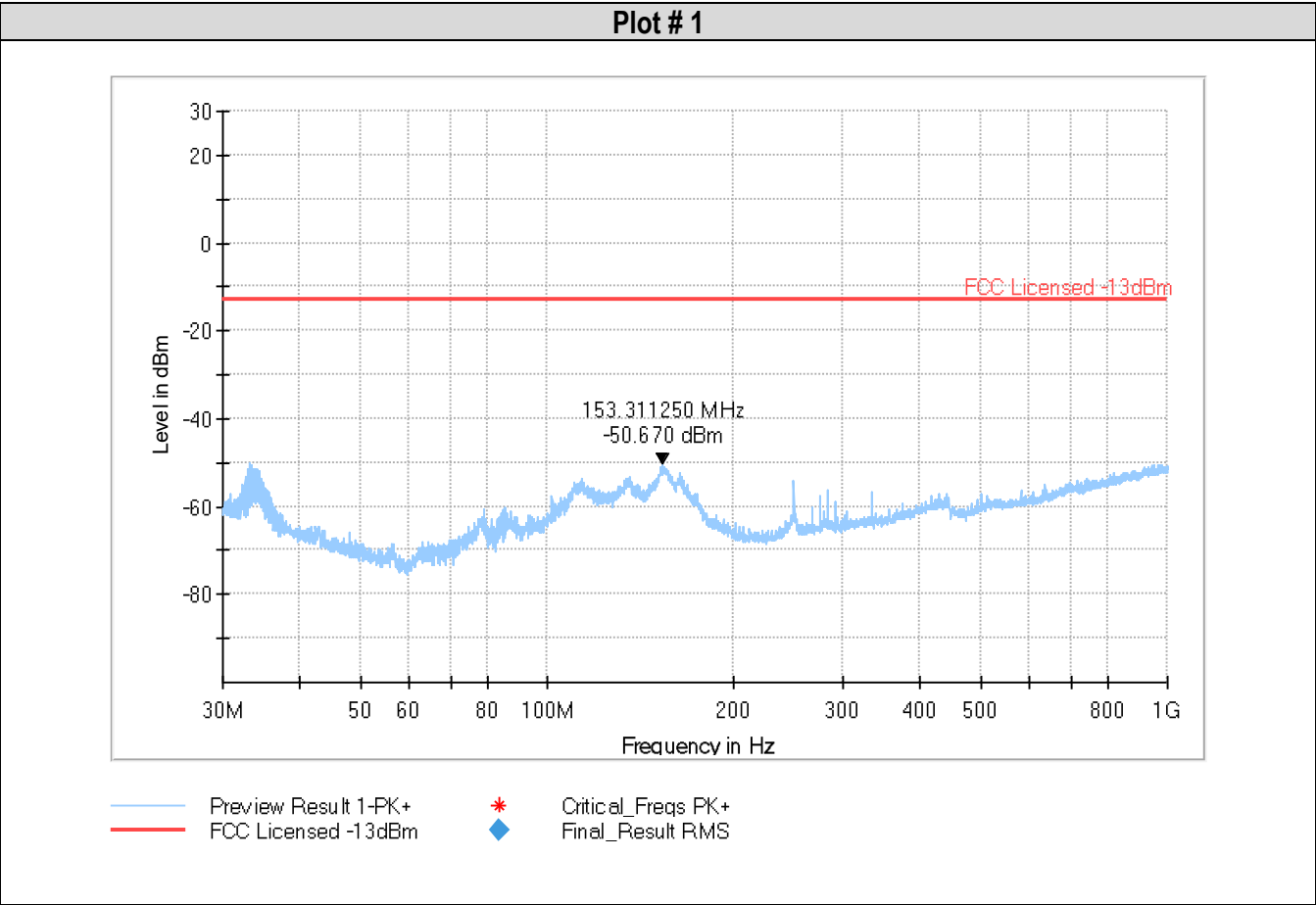
Plot #	Channel	EUT operating mode	Scan Frequency	Lowest margin emission (dBm)	Limit (dBm)	Result
1-4	Low	NR2	30 MHz – 22 GHz	-32.796	See section 8.1.2	Pass
5-8	Mid		30 MHz – 22 GHz			Pass
9-12	High		30 MHz – 22 GHz			Pass
13-16	Low	NR25	30 MHz – 22 GHz	-45.163	See section 8.1.2	Pass
17-20	Mid		30 MHz – 22 GHz			Pass
21-24	High		30 MHz – 22 GHz			Pass
25-27	Low	NR5	30 MHz – 9 GHz	-29.722	See section 8.1.2	Pass
28-30	Mid		30 MHz – 9 GHz			Pass
31-33	High		30 MHz – 9 GHz			Pass
34-36	Low	LTE Band 26	30 MHz – 9 GHz	-31.908	See section 8.1.2	Pass
37-39	Mid		30 MHz – 9 GHz			Pass
40-42	High		30 MHz – 9 GHz			Pass
43-45	Low	LTE Band 14	30 MHz – 9 GHz	-28.904	See section 8.1.2	Pass
46-48	Mid		30 MHz – 9 GHz			Pass
49-51	High		30 MHz – 9 GHz			Pass
52-55	Low	NR7	30 MHz – 30 GHz	-34.882	See section 8.1.2	Pass
56-59	Mid		30 MHz – 30 GHz			Pass
60-63	High		30 MHz – 30 GHz			Pass
64-67	Low	NR38	30 MHz – 30 GHz	-33.081	See section 8.1.2	Pass
68-71	Mid		30 MHz – 30 GHz			Pass
72-75	High		30 MHz – 30 GHz			Pass
76-79	Low	NR41	30 MHz – 30 GHz	-38.330	See section 8.1.2	Pass
80-83	Mid		30 MHz – 30 GHz			Pass
84-87	High		30 MHz – 30 GHz			Pass
88-90	Low	NR66	30 MHz – 18 GHz	-44.700	See section 8.1.2	Pass
91-93	Mid		30 MHz – 18 GHz			Pass
94-96	High		30 MHz – 18 GHz			Pass
97-100	Low	NR30	30 MHz – 30 GHz	-36.956	See section 8.1.2	Pass
101-104	Mid		30 MHz – 30 GHz			Pass
105-108	High		30 MHz – 30 GHz			Pass
109-111	Low	LTE Band 12	30 MHz – 9 GHz	-33.233	See section 8.1.2	Pass
112-114	Mid		30 MHz – 9 GHz			Pass
115-117	High		30 MHz – 9 GHz			Pass
118-120	Low	LTE Band 13	30 MHz – 9 GHz	-39.666	See section 8.1.2	Pass
121-123	Mid		30 MHz – 9 GHz			Pass
124-126	High		30 MHz – 9 GHz			Pass
127-129	Low	NR71	30 MHz – 9 GHz	-57.790	See section 8.1.2	Pass
130-132	Mid		30 MHz – 9 GHz			Pass



133-135	High	30 MHz – 9 GHz	Pass
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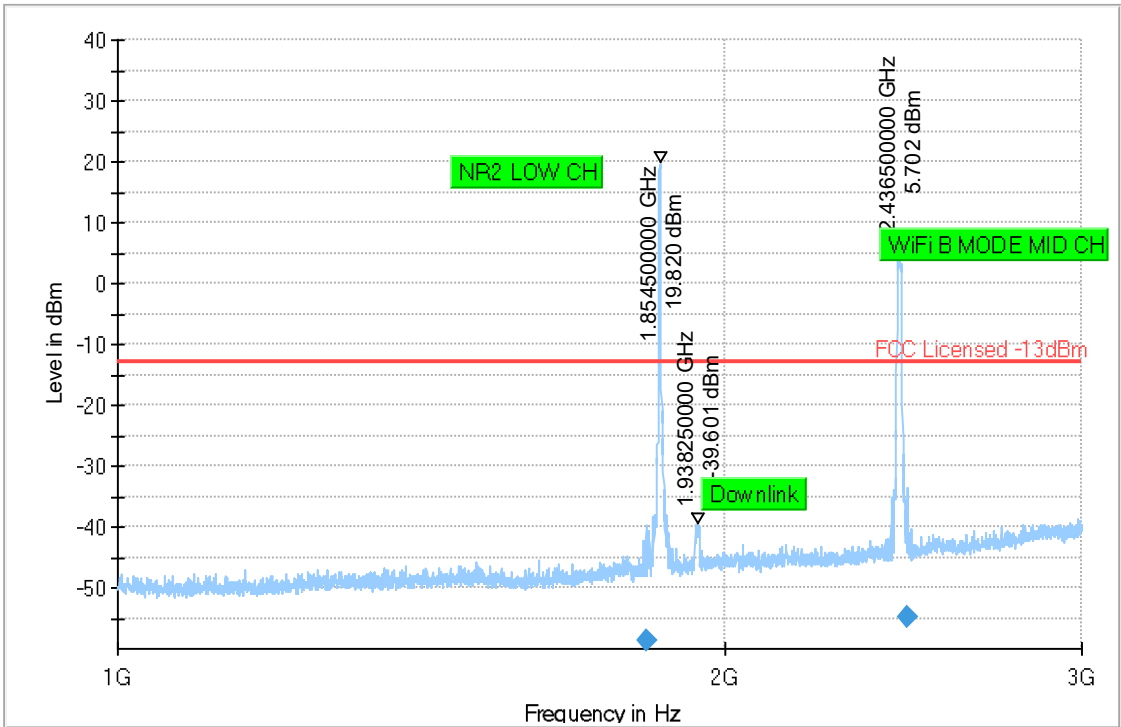
8.1.5 Measurement Plots:

8.1.5.1 NR2



Plot # 2

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1825.668	-58.625	-13.00	45.63	500.0	1000.0	221.0	V	327.0	-64.3	4.2	0.0	-68.6	5.7
2457.500	-54.742	-13.00	41.74	500.0	1000.0	161.0	V	74.0	-62.1	5.0	0.0	-67.0	7.3

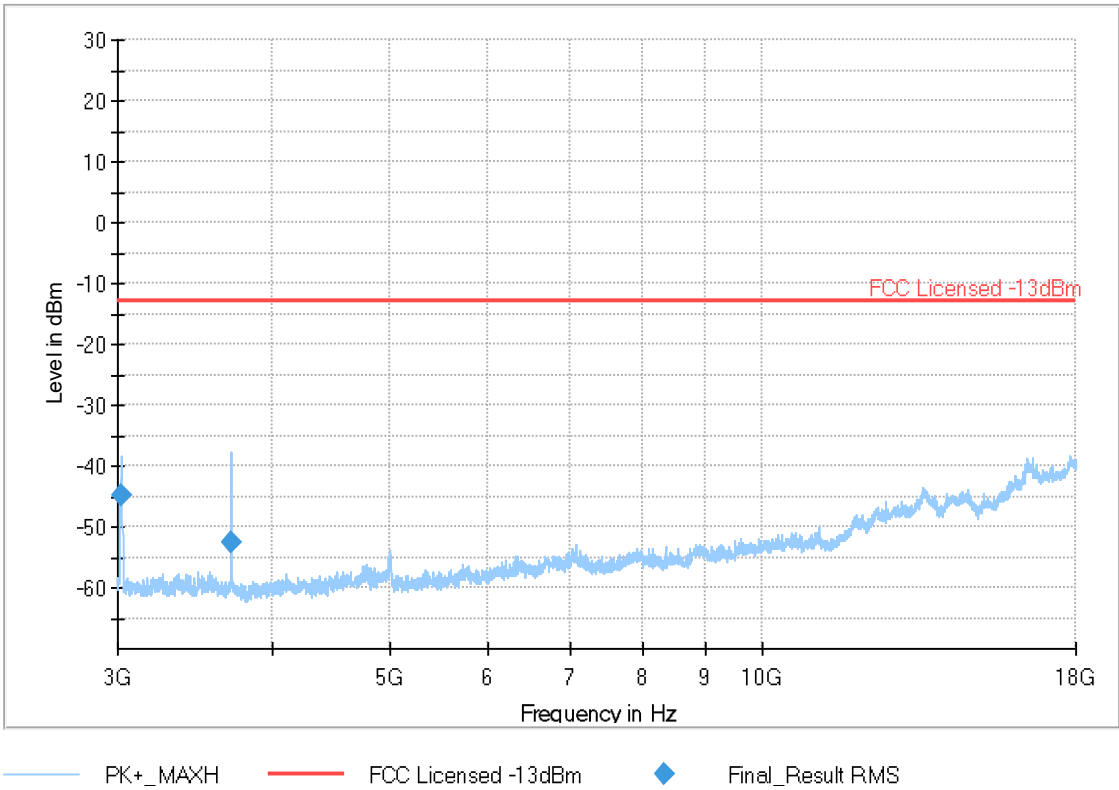


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS

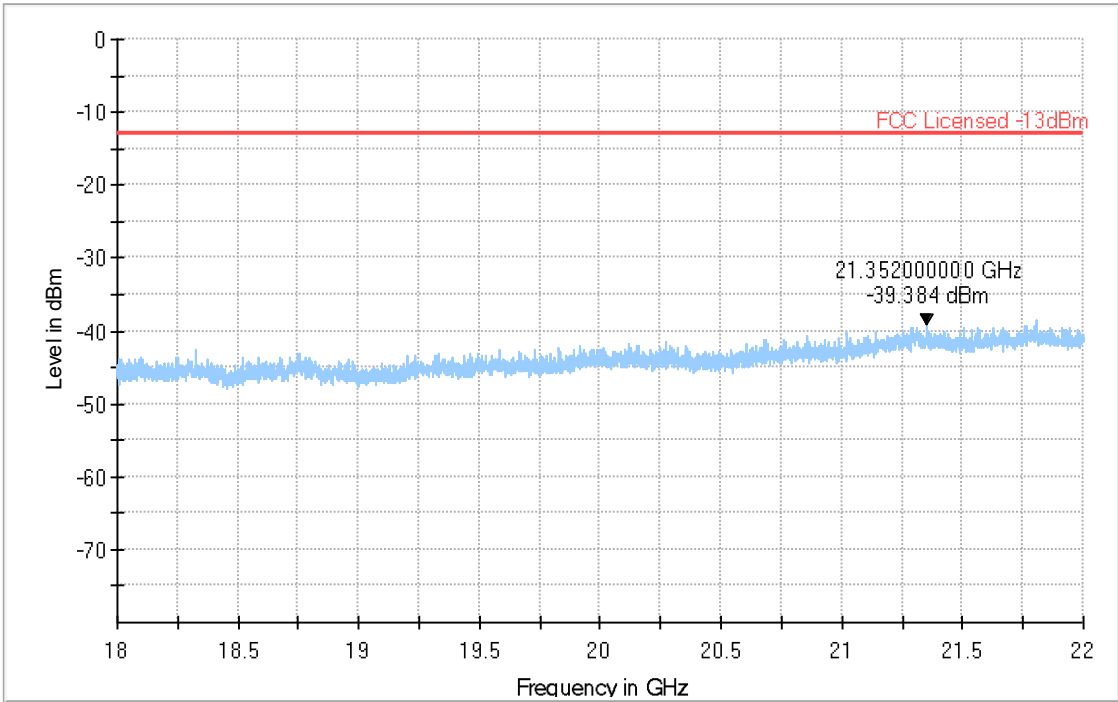


Plot # 3

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3018.531	-44.923	-13.00	31.92	500.0	1000.0	170.0	V	227.0	-	5.3	-45.9	-62.5	58.2
3709.299	-52.649	-13.00	39.65	500.0	1000.0	145.0	V	6.0	-	6.3	-45.5	-62.2	48.8



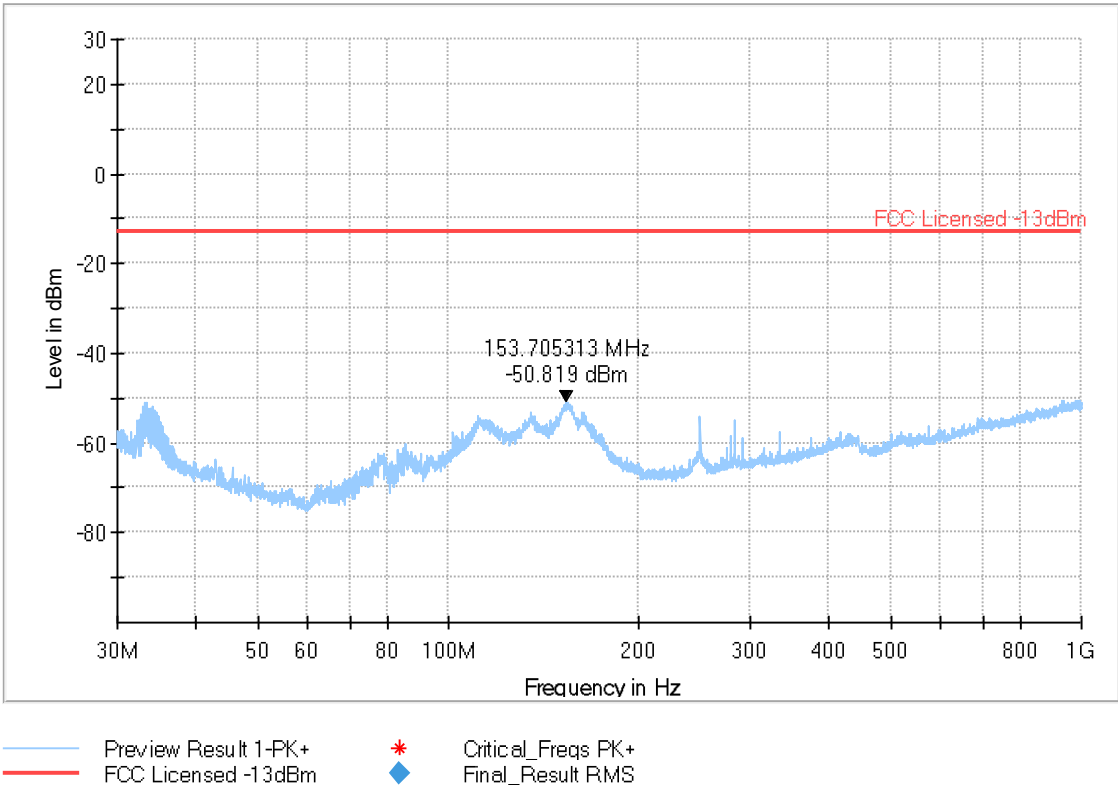
Plot # 4



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

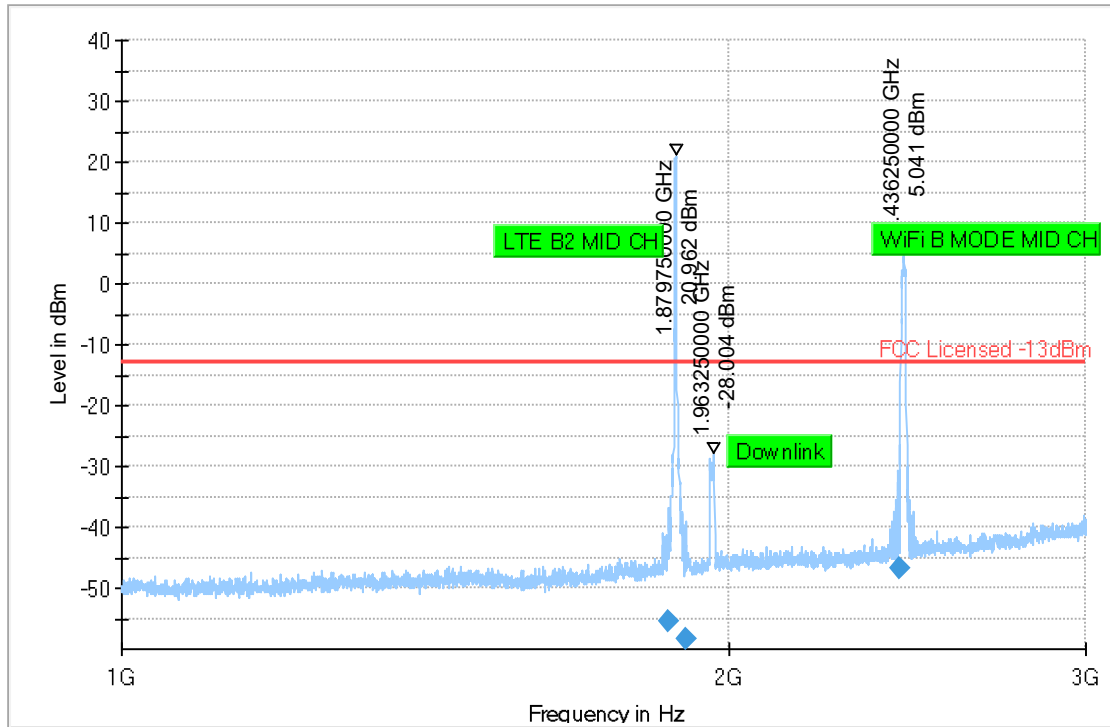


Plot # 5



Plot # 6

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preampl (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1866.260	-55.528	-13.00	42.53	500.0	1000.0	151.0	V	32.0	-64.0	4.4	0.0	-68.4	8.5
1902.750	-58.326	-13.00	45.33	500.0	1000.0	258.0	V	-7.0	-63.9	4.5	0.0	-68.3	5.5
2427.000	-46.920	-13.00	33.92	500.0	1000.0	134.0	V	24.0	-62.3	4.8	0.0	-67.1	15.4



Preview Result 1-PK+

FCC Licensed -13dBm

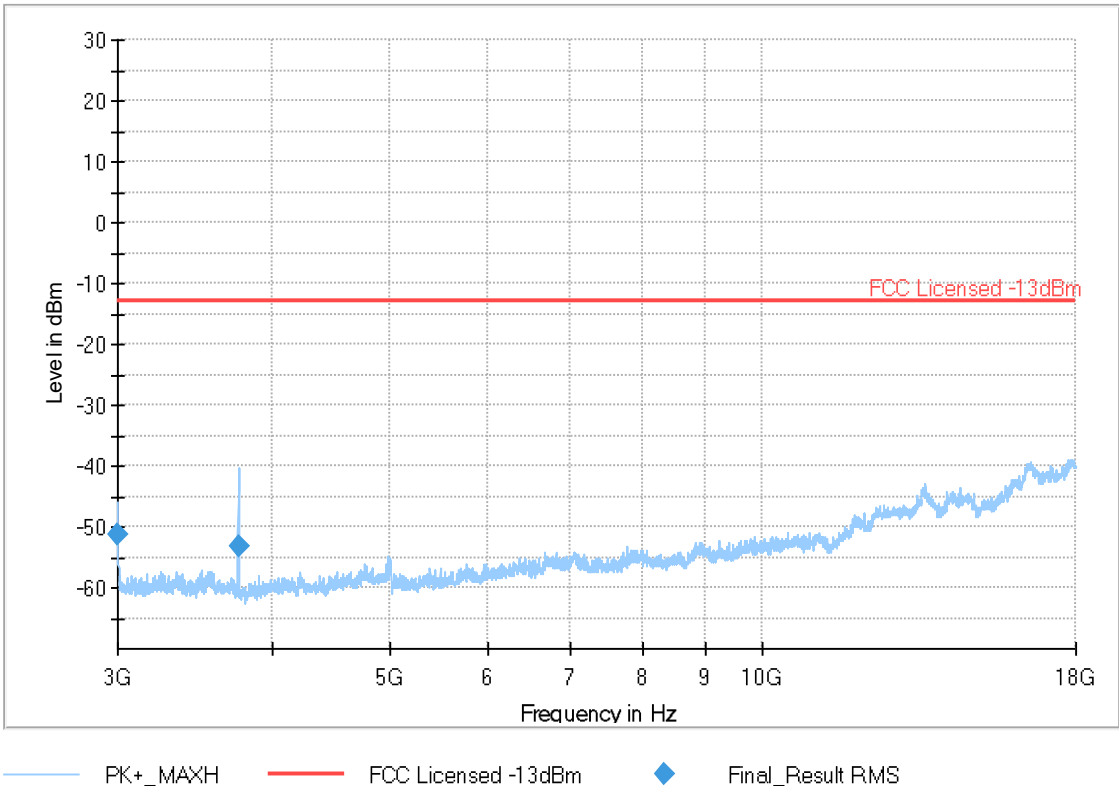


Final_Result RMS

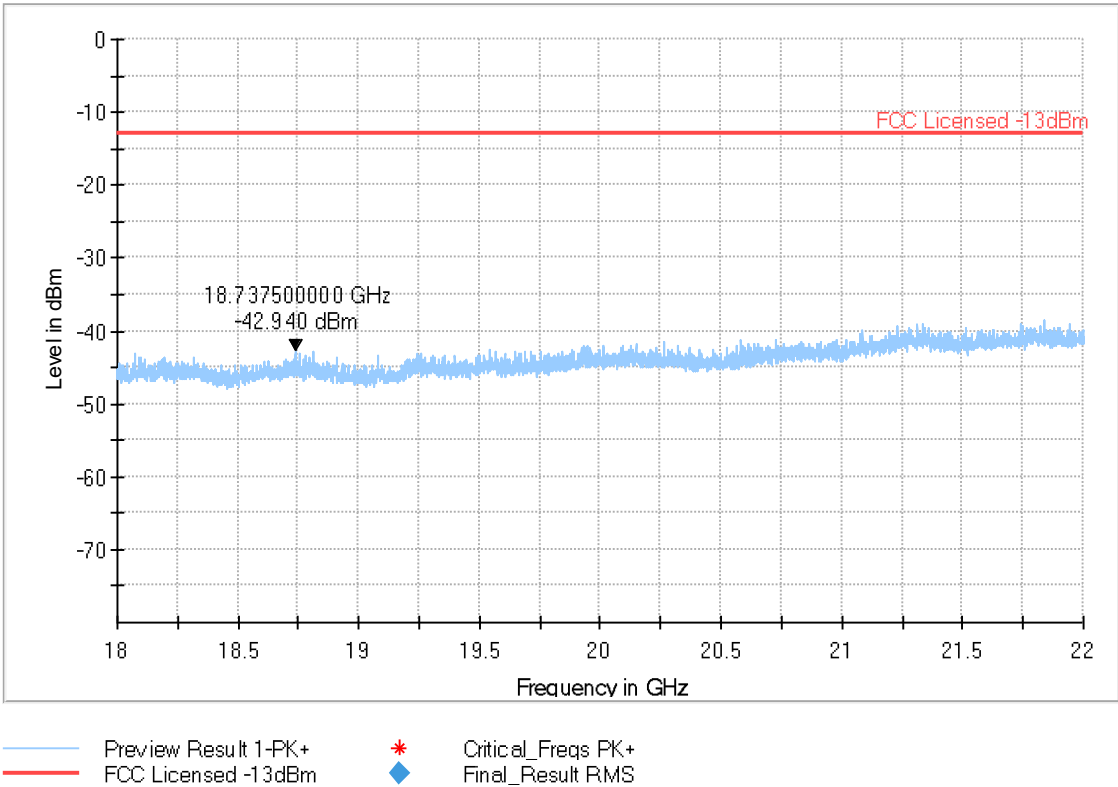


Plot # 7

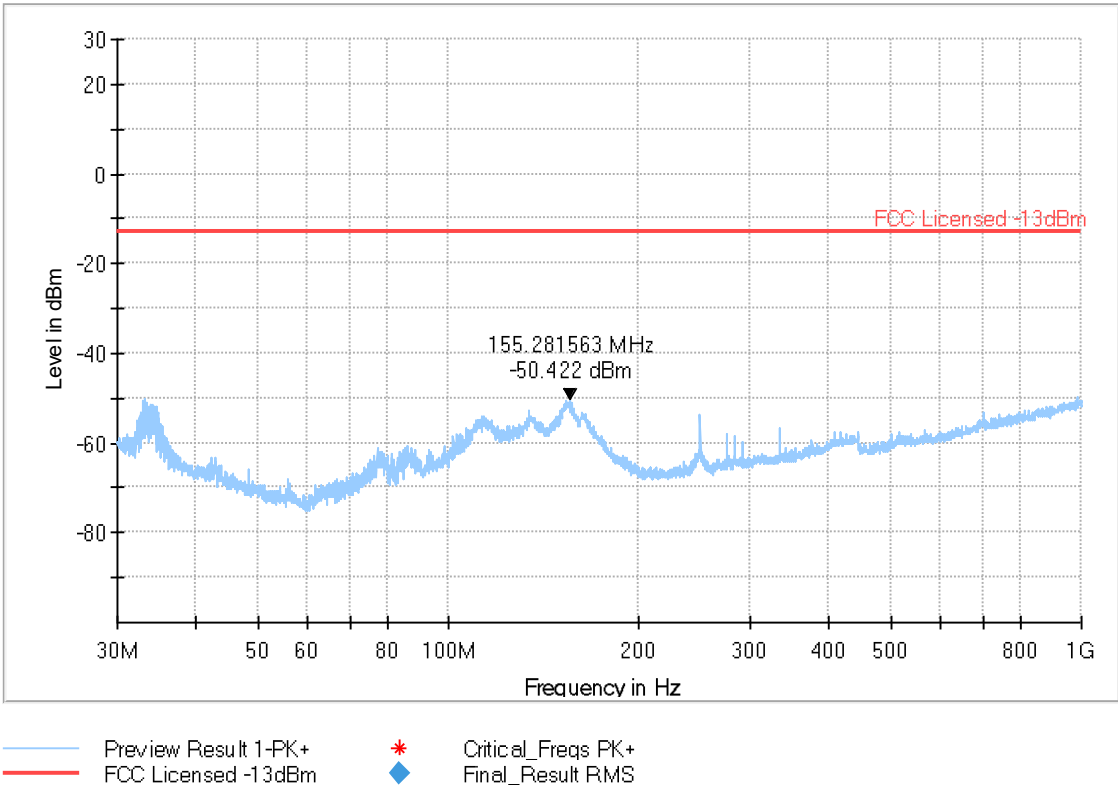
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3000.481	-51.412	-13.00	38.41	500.0	1000.0	143.0	V	227.0	-	5.3	-45.8	-62.6	51.6
3760.531	-53.234	-13.00	40.23	500.0	1000.0	151.0	V	10.0	-	6.0	-45.7	-62.2	48.7



Plot # 8

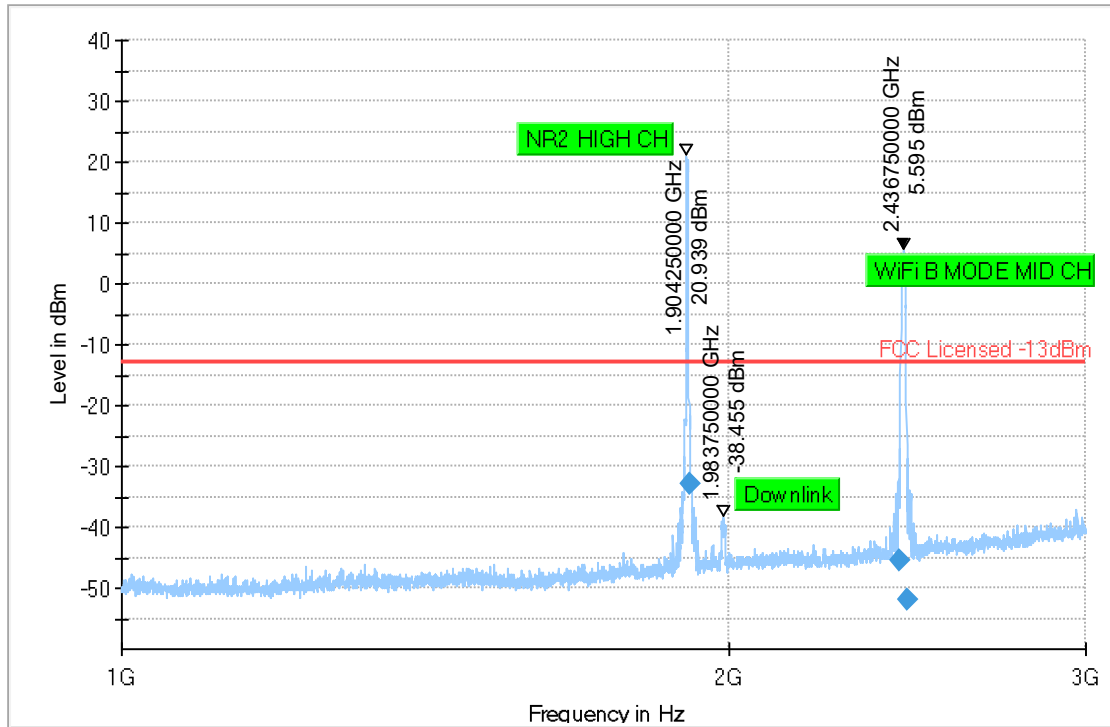


Plot # 9



Plot # 10

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1910.084	-32.796	-13.00	19.80	500.0	1000.0	162.0	H	54.0	-63.8	4.5	0.0	-68.2	31.0
2426.500	-45.376	-13.00	32.38	500.0	1000.0	171.0	V	67.0	-62.3	4.8	0.0	-67.1	16.9
2450.181	-52.079	-13.00	39.08	500.0	1000.0	145.0	V	64.0	-62.1	5.0	0.0	-67.0	10.0

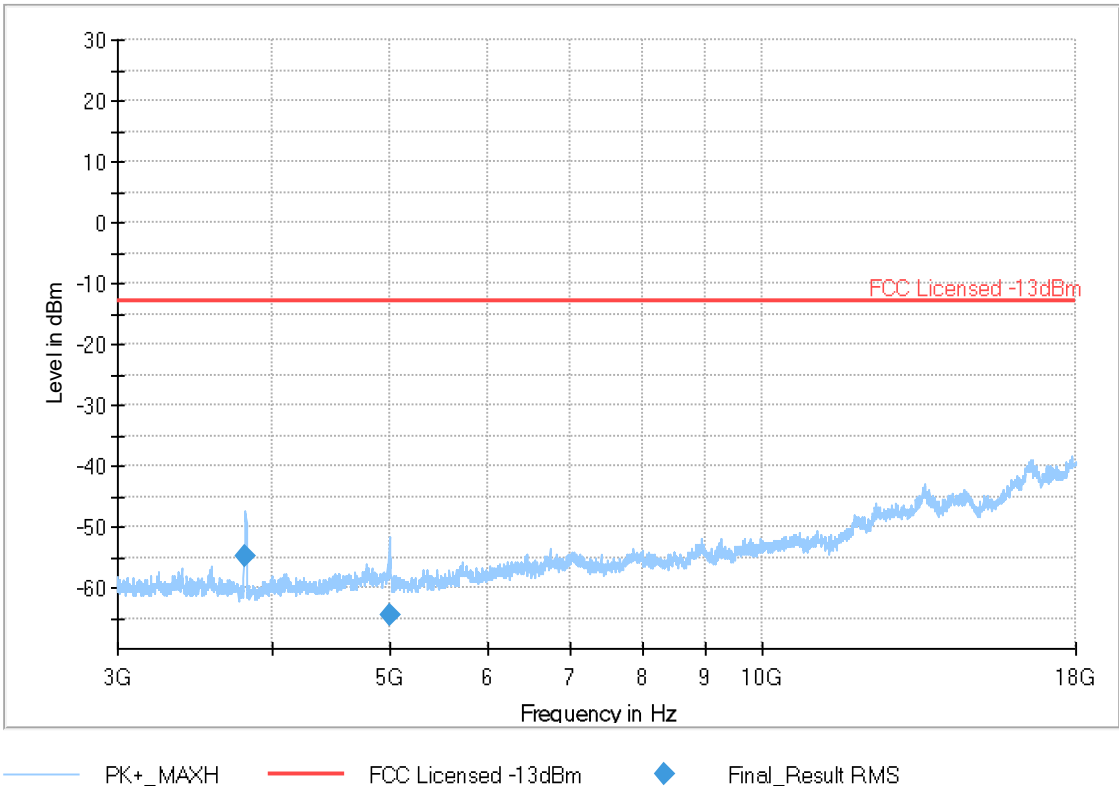


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS

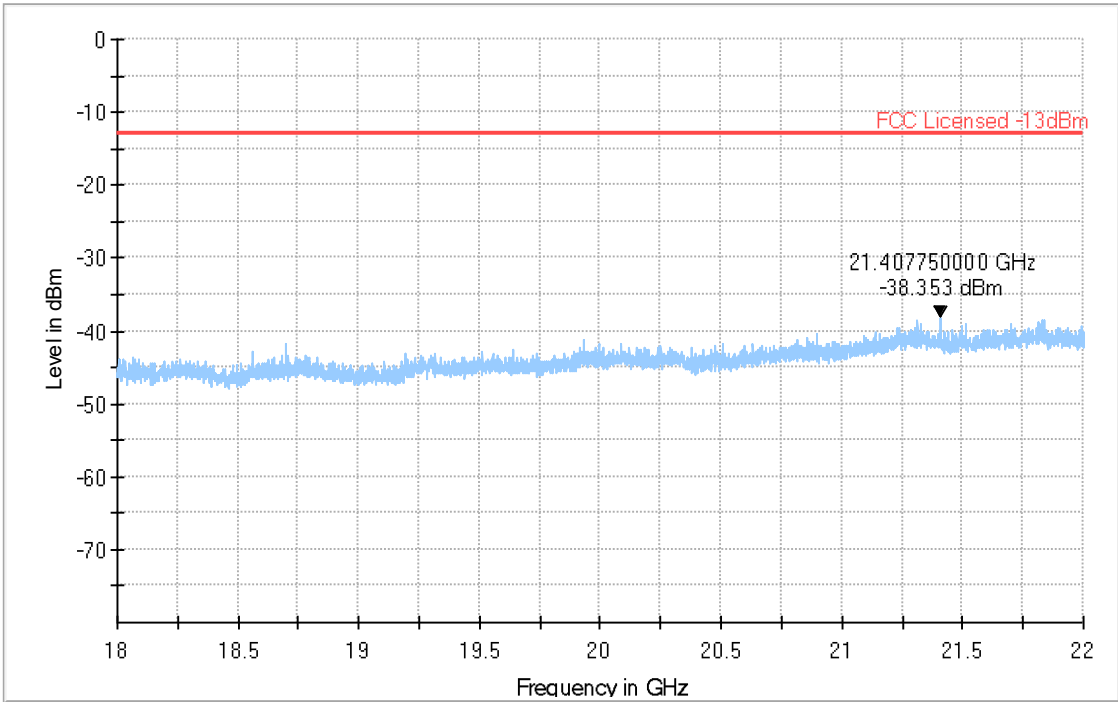


Plot # 11

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3810.688	-54.921	-13.00	41.92	500.0	1000.0	161.0	V	225.0	-	6.1	-45.9	-62.1	47.1
4984.918	-64.548	-13.00	51.55	500.0	1000.0	165.0	H	274.0	-99.9	7.0	-45.8	-61.1	35.3

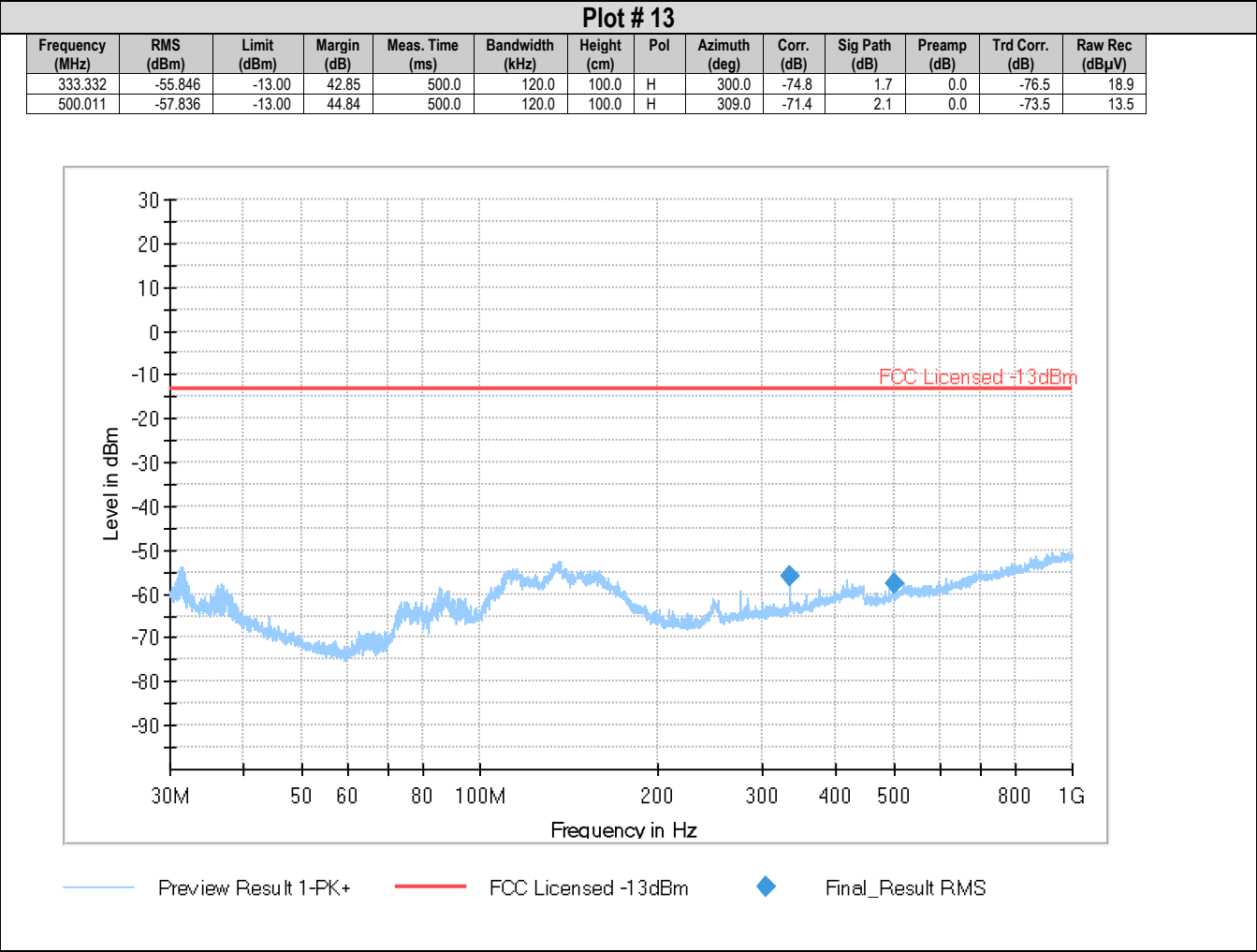


Plot # 12



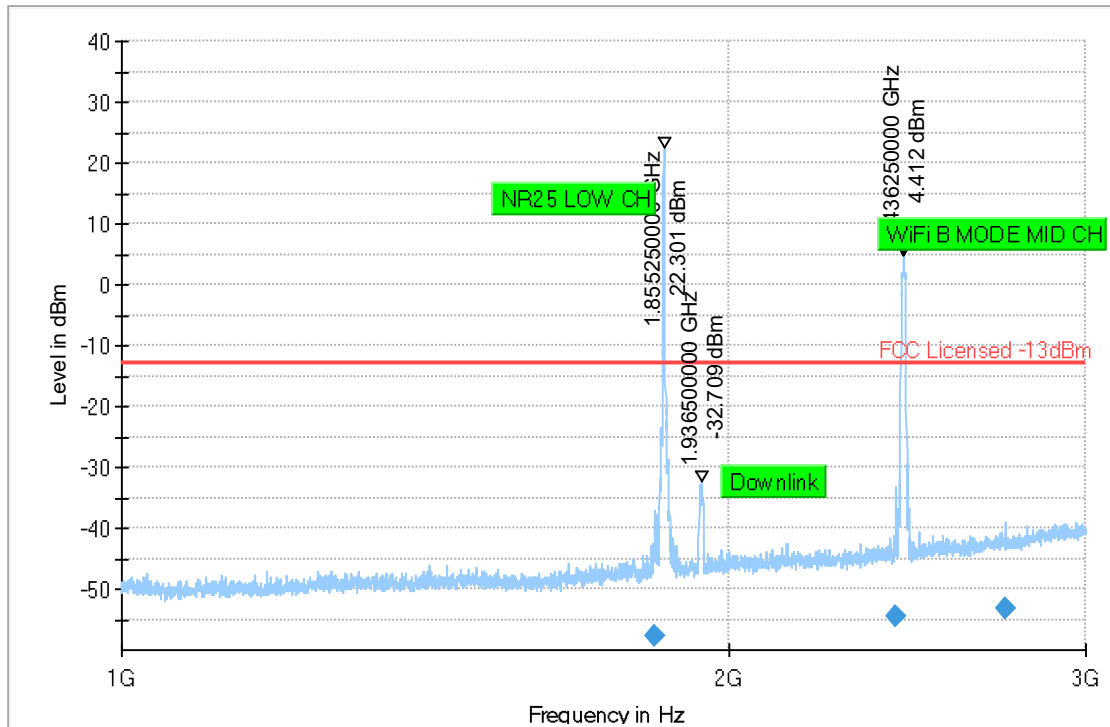
Preview Result 1-PK+ * Critical_Freqs PK+
FCC Licensed -13dBm ◆ Final_Result RMS

8.1.5.2 NR25



Plot # 14

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preampl (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1836.915	-57.650	-13.00	44.65	500.0	1000.0	145.0	H	234.0	-64.1	4.3	0.0	-68.5	6.5
2416.928	-54.513	-13.00	41.51	500.0	1000.0	218.0	H	287.0	-62.3	4.8	0.0	-67.1	7.8
2738.376	-53.248	-13.00	40.25	500.0	1000.0	215.0	H	215.0	-61.4	5.1	0.0	-66.5	8.1

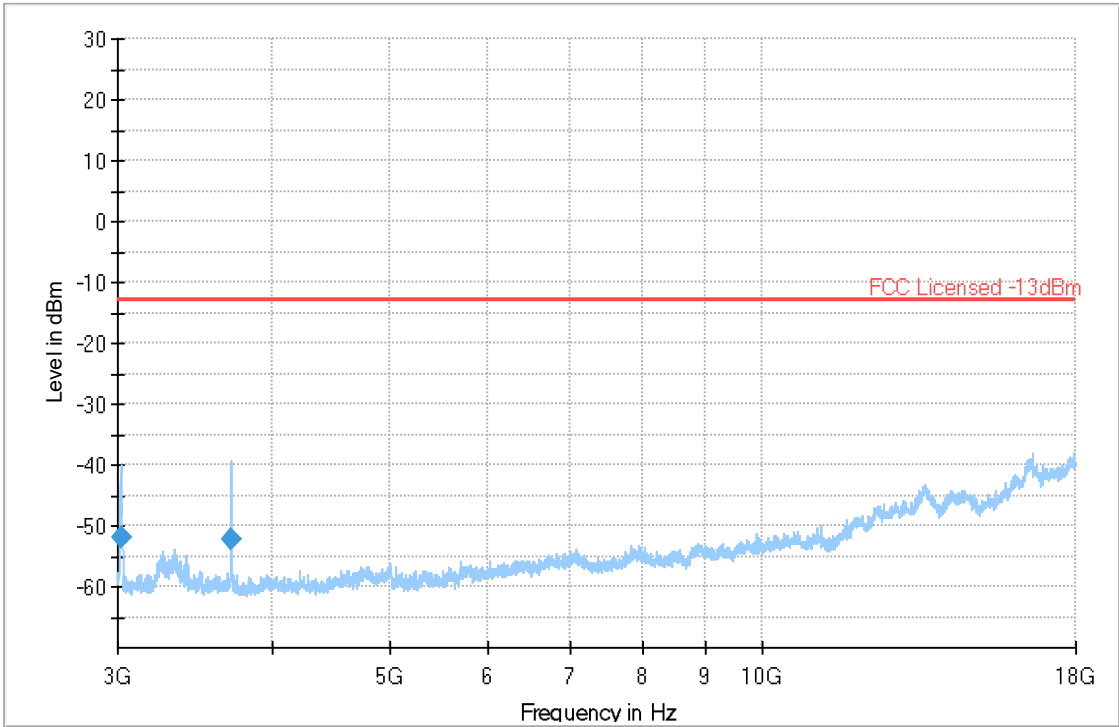


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS



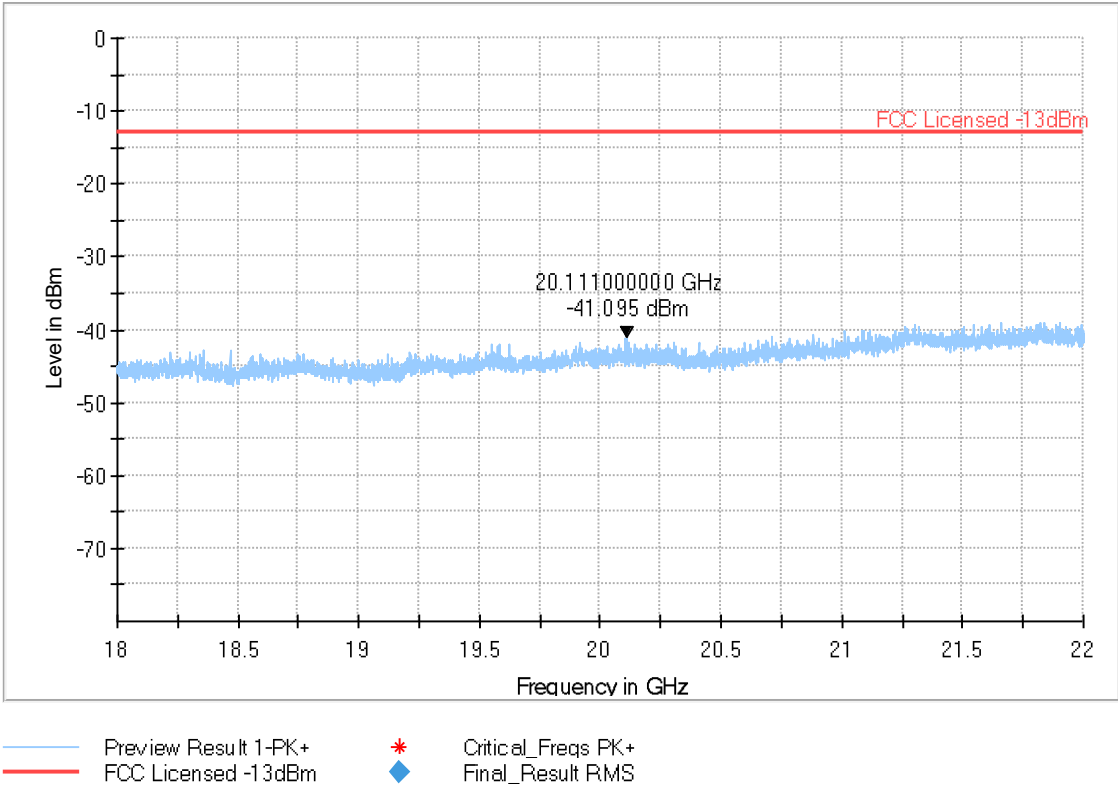
Plot # 15

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3017.563	-51.812	-13.00	38.81	500.0	1000.0	160.0	V	220.0	-	5.3	-45.9	-62.5	51.3
3709.700	-52.376	-13.00	39.38	500.0	1000.0	144.0	V	-2.0	-	6.3	-45.5	-62.2	49.0



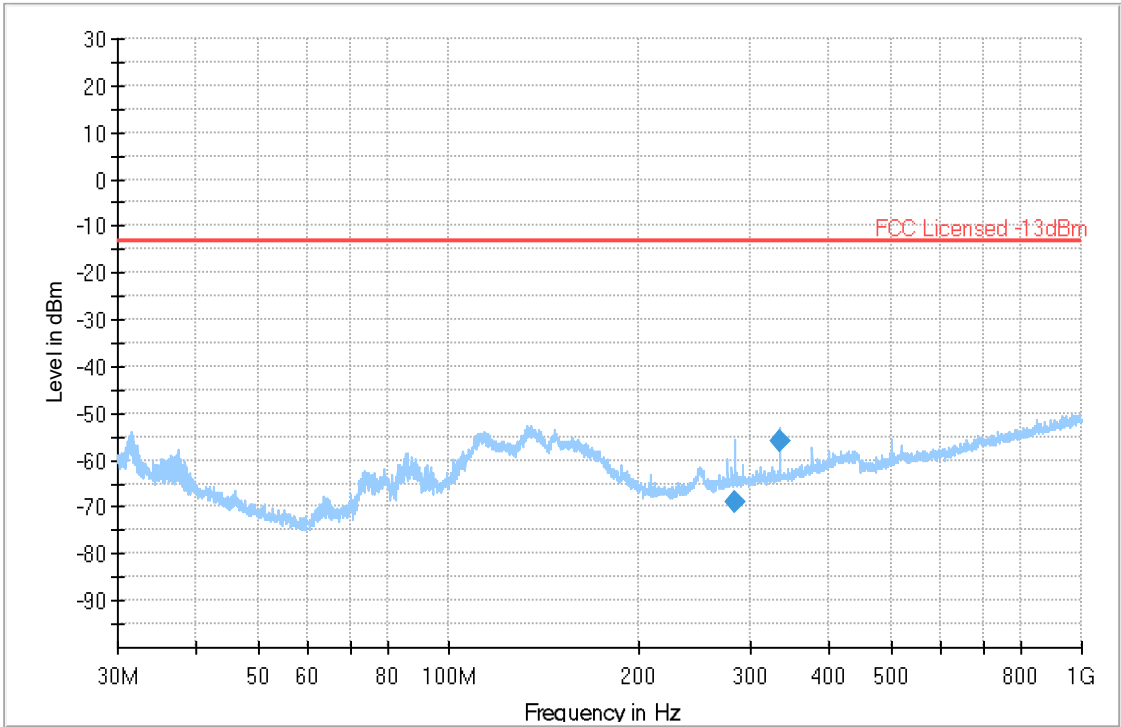
PK+_MAXH FCC Licensed -13dBm Final_Result RMS

Plot # 16



Plot # 17

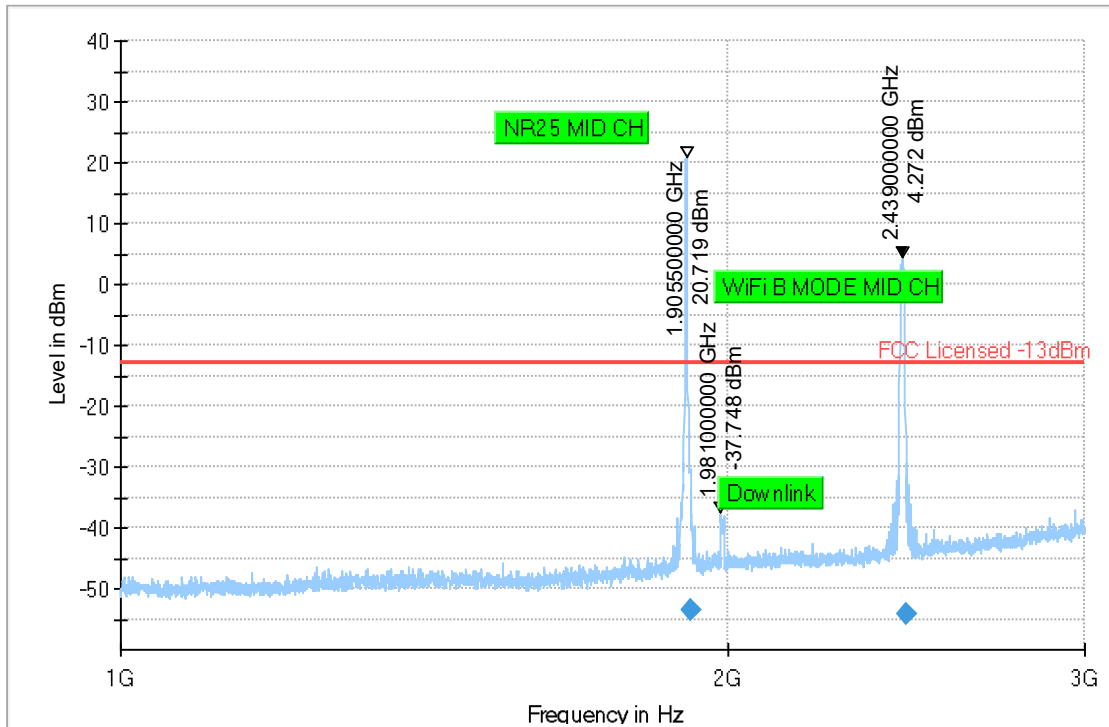
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
283.983	-69.089	-13.00	56.09	500.0	120.0	177.0	H	97.0	-76.1	1.5	0.0	-77.7	7.0
333.332	-55.812	-13.00	42.81	500.0	120.0	100.0	H	299.0	-74.8	1.7	0.0	-76.5	18.9



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

Plot # 18

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1916.488	-53.663	-13.00	40.66	500.0	1000.0	196.0	V	-8.0	-63.8	4.5	0.0	-68.2	10.1
2450.750	-54.058	-13.00	41.06	500.0	1000.0	119.0	V	317.0	-62.1	5.0	0.0	-67.0	8.0



Preview Result 1-PK+

FCC Licensed -13dBm

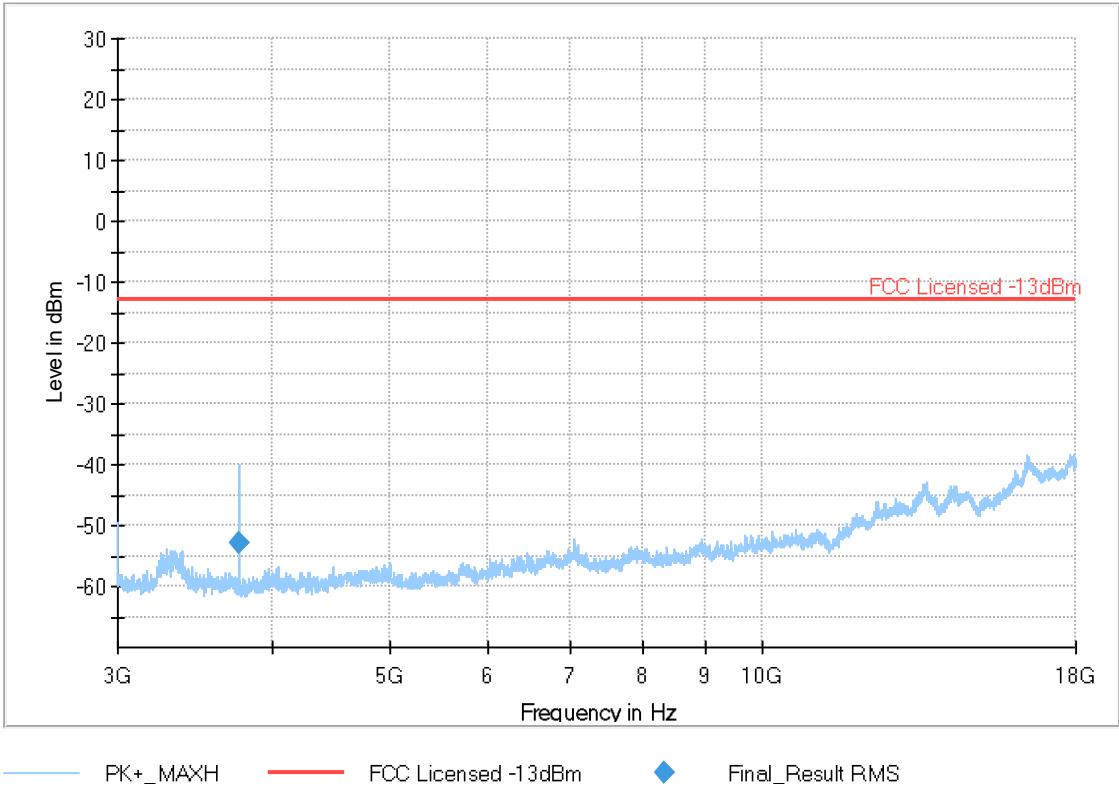


Final_Result RMS

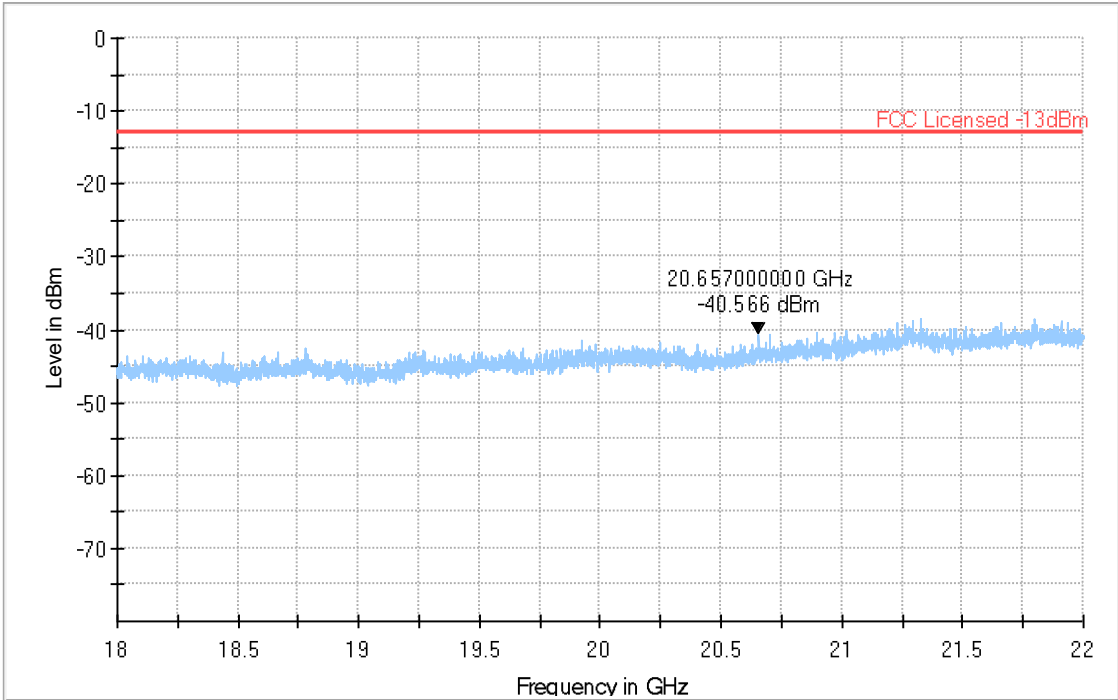


Plot # 19

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3763.937	-52.863	-13.00	39.86	500.0	1000.0	159.0	V	0.0	-	6.0	-45.8	-62.2	49.0



Plot # 20

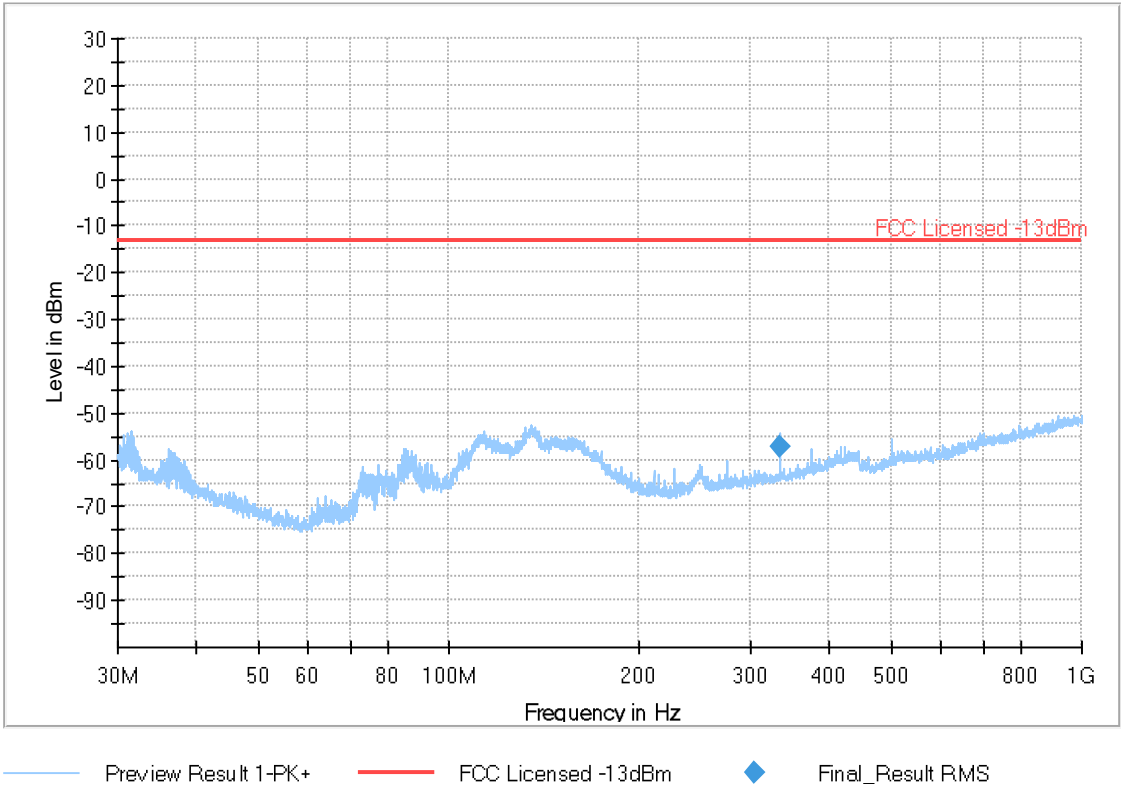


Preview Result 1-PK+ * Critical_Freqs PK+
FCC Licensed -13dBm ◆ Final_Result RMS



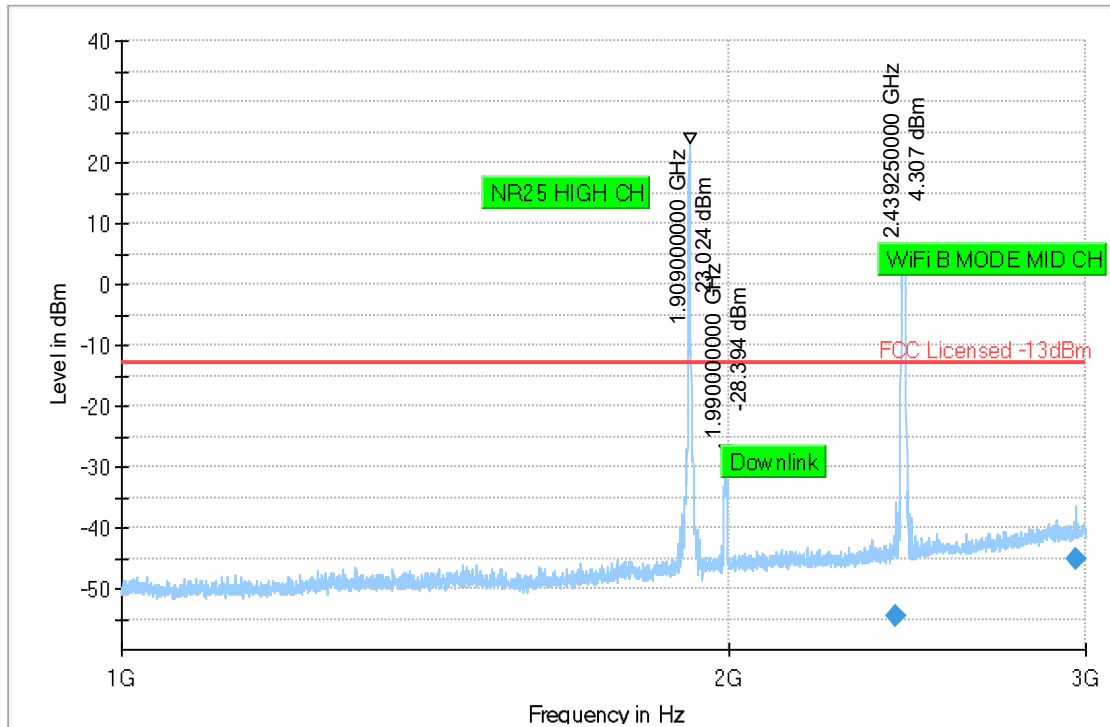
Plot # 21

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
333.332	-57.210	-13.00	44.21	500.0	120.0	178.0	H	154.0	-74.8	1.7	0.0	-76.5	17.6



Plot # 22

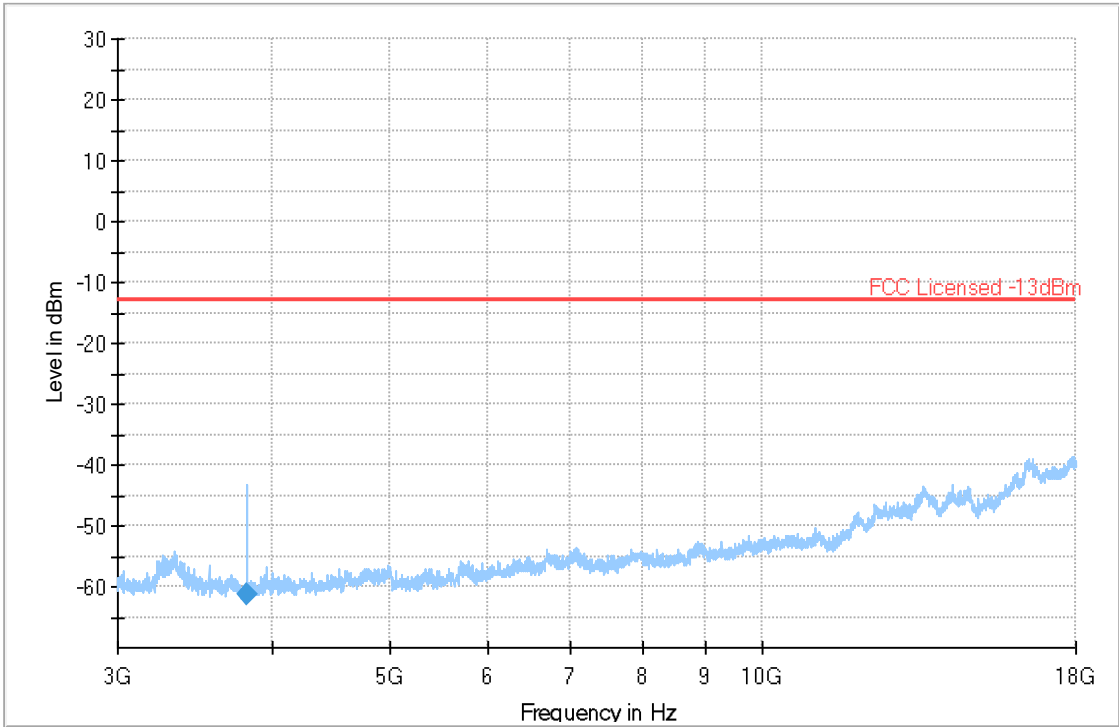
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preampl (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2414.654	-54.480	-13.00	41.48	500.0	1000.0	228.0	H	285.0	-62.3	4.8	0.0	-67.1	7.9
2963.819	-45.163	-13.00	32.16	500.0	1000.0	152.0	H	279.0	-60.1	5.4	0.0	-65.5	14.9





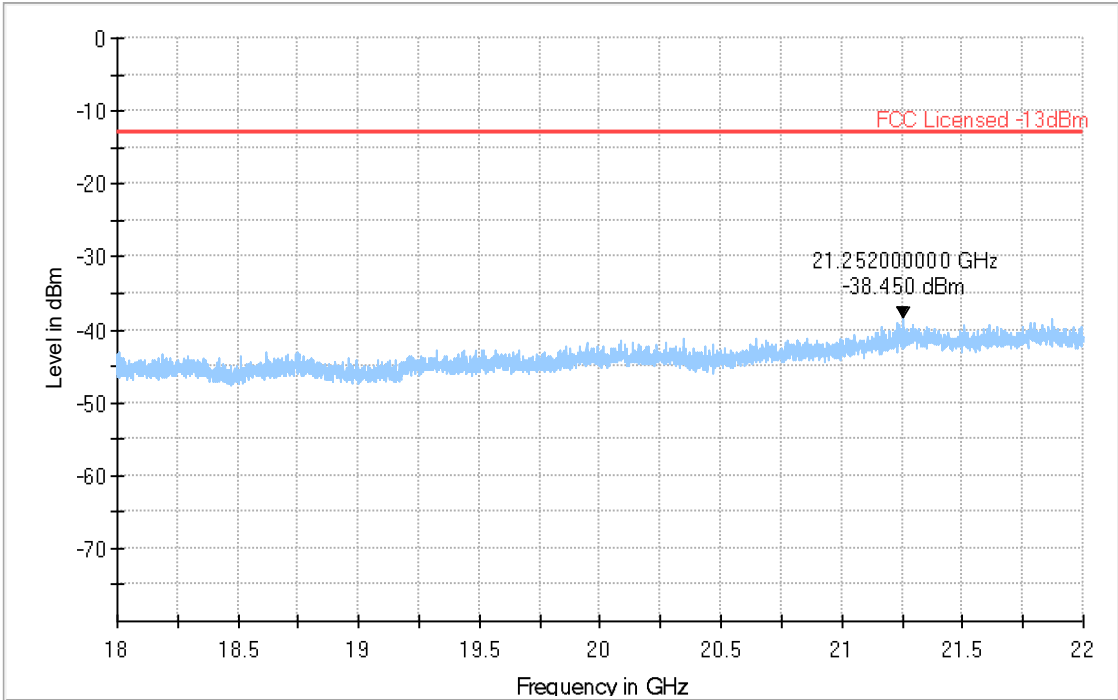
Plot # 23

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3820.846	-70.286	-13.00	57.29	500.0	1000.0	135.0	V	-37.0	-	6.1	-46.0	-62.1	31.7
3821.031	-61.418	-13.00	48.42	500.0	1000.0	152.0	V	-41.0	-	6.1	-46.0	-62.1	40.6



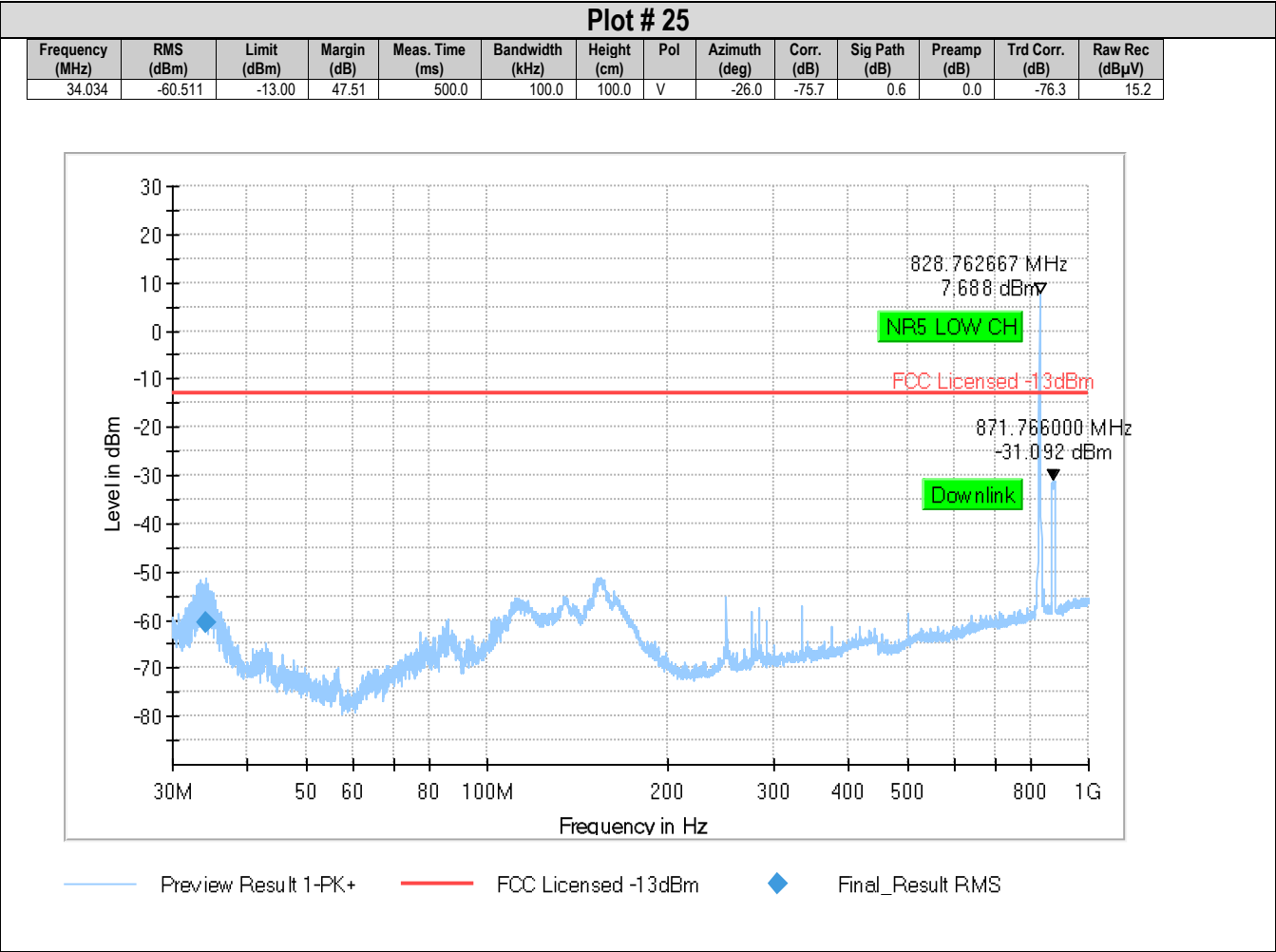
PK+_MAXH FCC Licensed -13dBm Final_Result RMS

Plot # 24



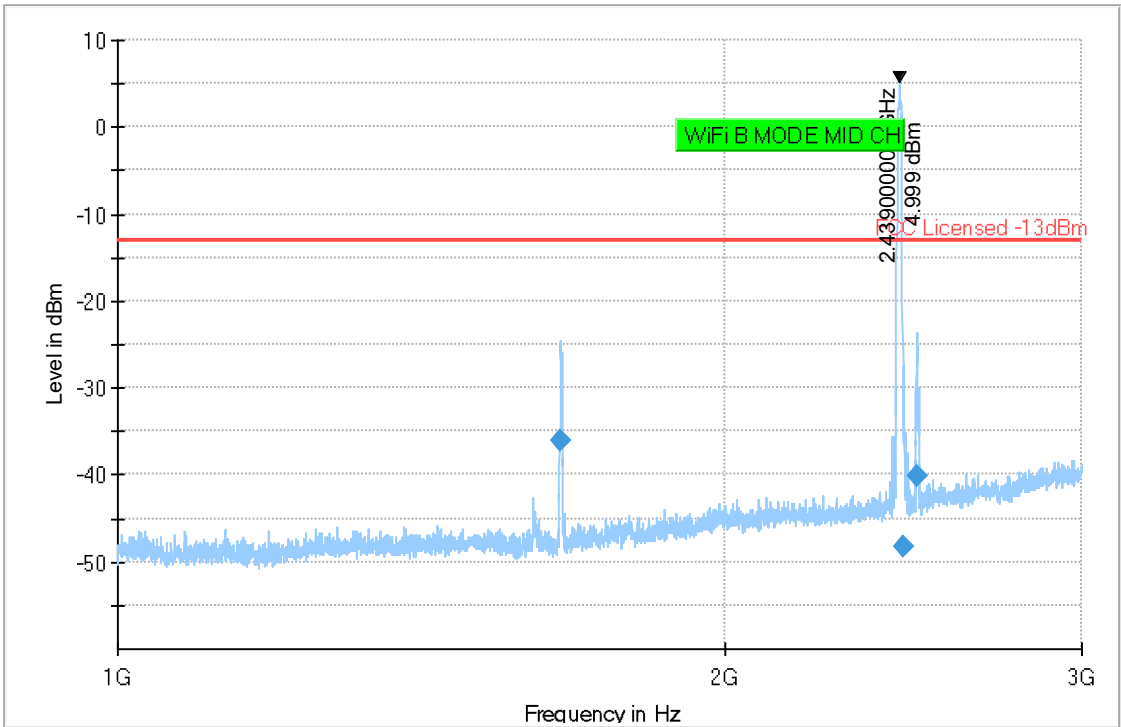
Preview Result 1-PK+ * Critical_Freqs PK+
FCC Licensed -13dBm ◆ Final_Result RMS

8.1.5.3 NR5



Plot # 26

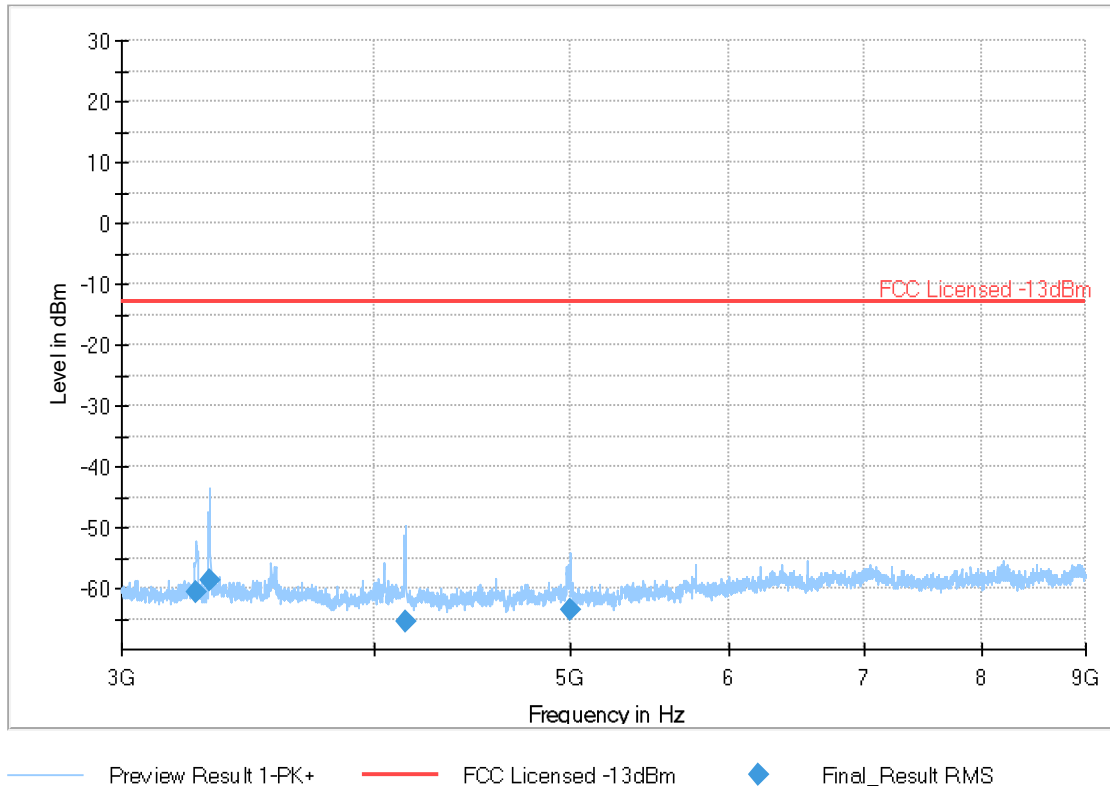
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1657.460	-36.035	-13.00	23.04	500.0	1000.0	187.0	H	249.0	-65.1	4.4	0.0	-69.5	29.1
2448.000	-48.172	-13.00	35.17	500.0	1000.0	239.0	H	288.0	-61.5	5.5	0.0	-67.0	13.4
2488.750	-40.065	-13.00	27.07	500.0	1000.0	258.0	H	291.0	-61.5	5.4	0.0	-66.9	21.4



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

Plot # 27

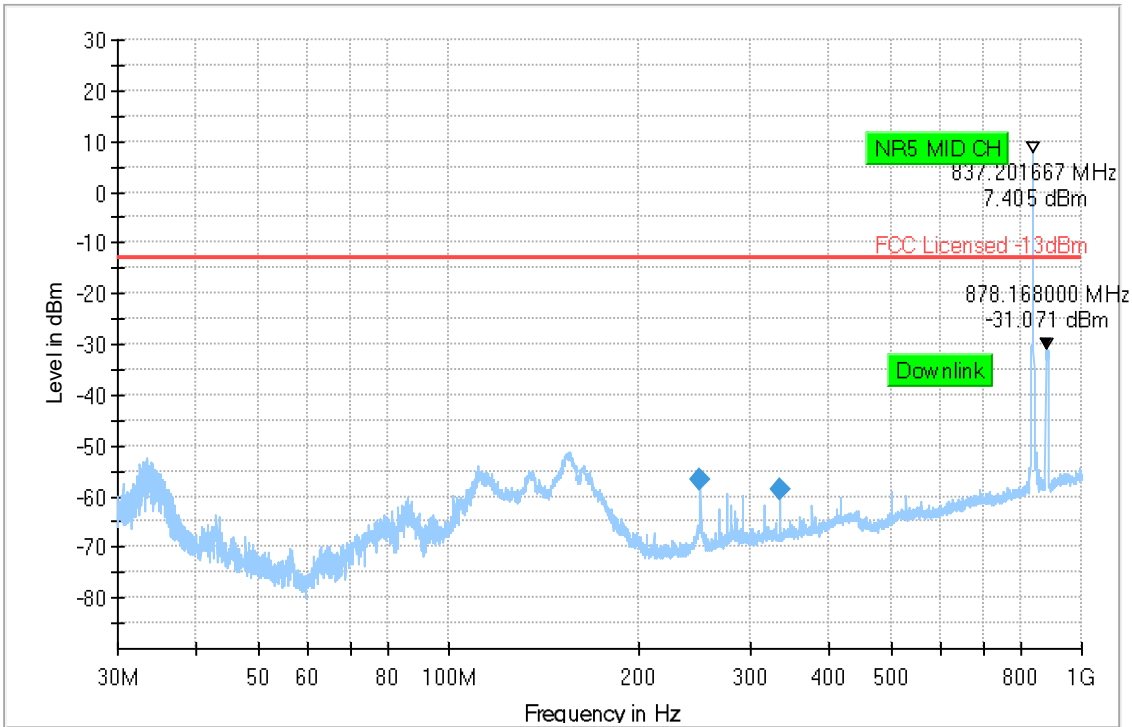
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3265.572	-60.504	-13.00	47.50	500.0	1000.0	228.0	V	216.0	-	5.6	-45.9	-62.6	42.4
3317.634	-58.774	-13.00	45.77	500.0	1000.0	144.0	V	242.0	-	5.7	-45.9	-62.6	44.1
4144.000	-65.596	-13.00	52.60	500.0	1000.0	248.0	V	306.0	-	6.4	-45.4	-61.8	35.2
4999.500	-63.693	-13.00	50.69	500.0	1000.0	143.0	H	278.0	-99.8	7.1	-45.8	-61.1	36.1





Plot # 28

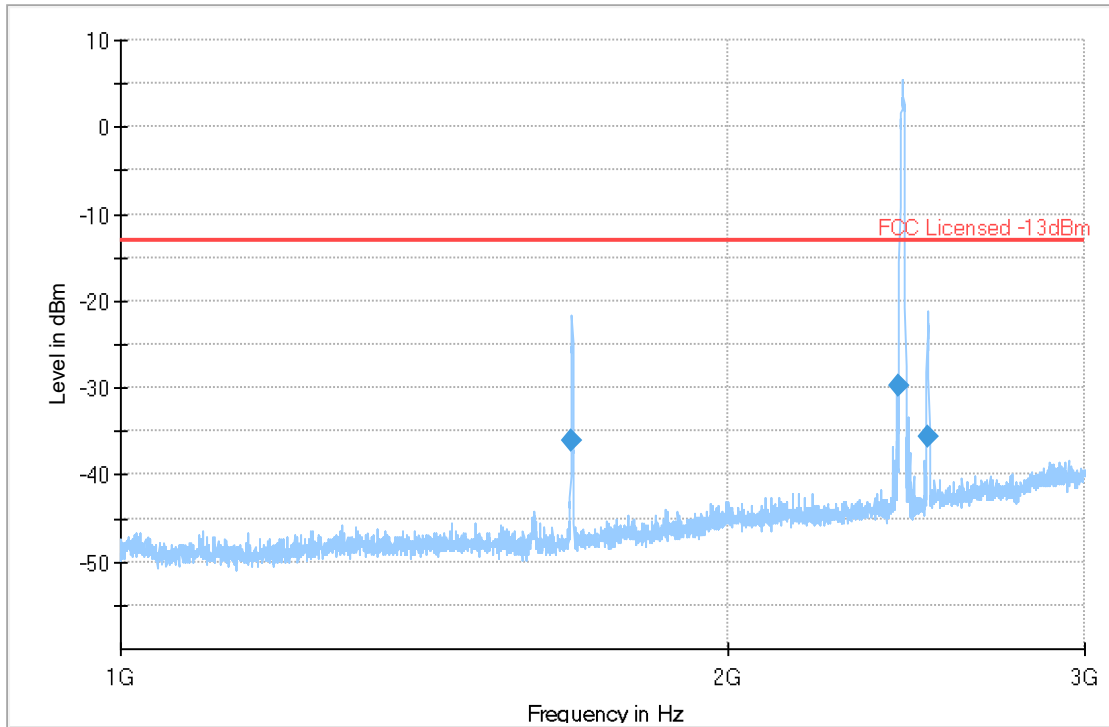
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
249.989	-56.826	-13.00	43.83	500.0	100.0	100.0	H	344.0	-73.1	1.5	0.0	-74.6	16.2
333.338	-58.567	-13.00	45.57	500.0	100.0	100.0	V	11.0	-75.5	1.7	0.0	-77.2	16.9



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

Plot # 29

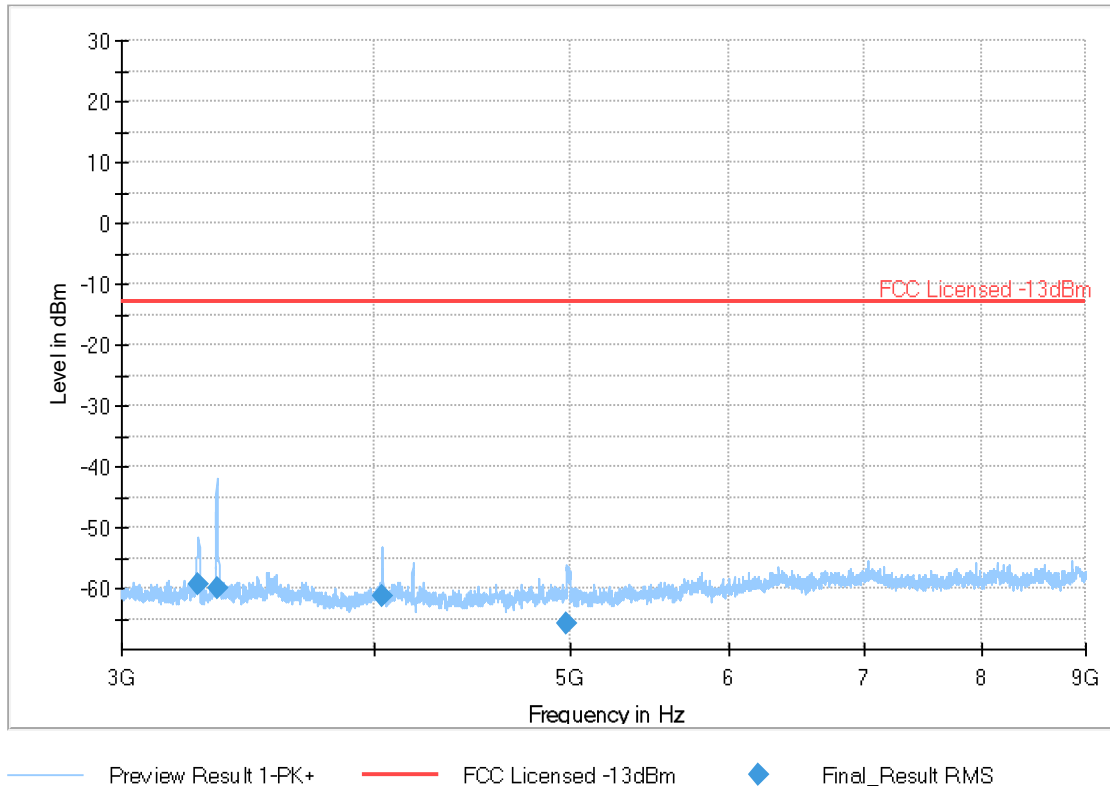
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preampl (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1672.892	-35.957	-13.00	22.96	500.0	1000.0	170.0	H	248.0	-64.9	4.5	0.0	-69.4	29.0
2428.250	-29.722	-13.00	16.72	500.0	1000.0	231.0	H	279.0	-61.7	5.4	0.0	-67.1	31.9
2507.348	-35.710	-13.00	22.71	500.0	1000.0	275.0	H	280.0	-61.4	5.4	0.0	-66.8	25.7



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

Plot # 30

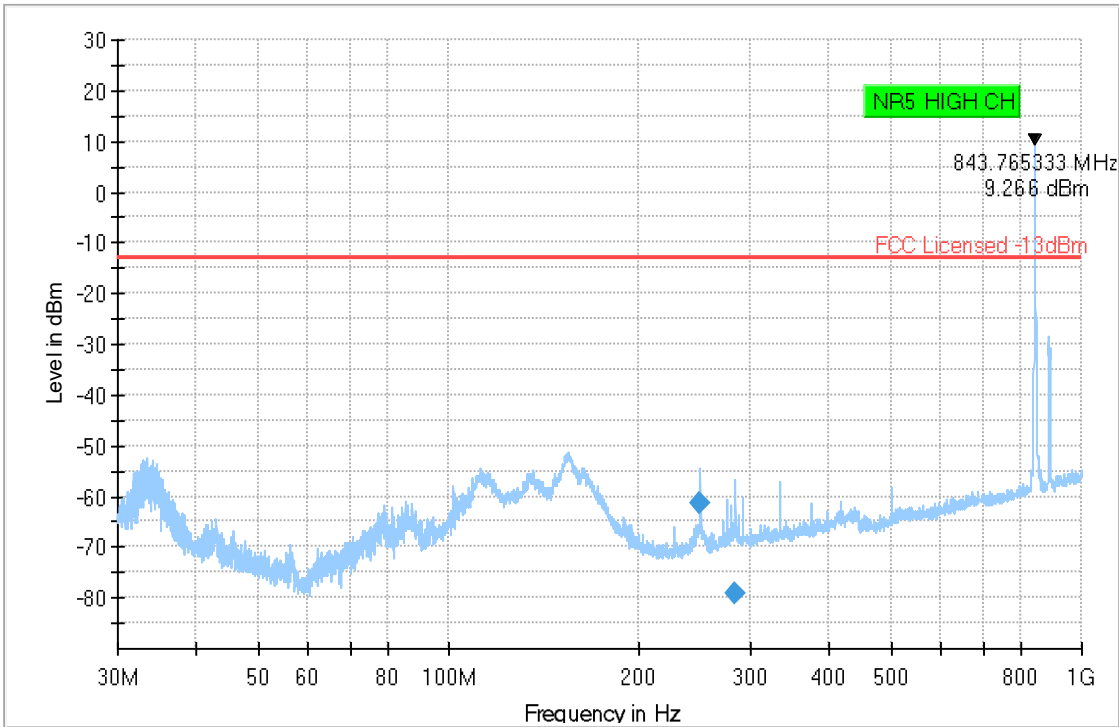
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3271.250	-59.427	-13.00	46.43	500.0	1000.0	153.0	V	221.0	-	5.6	-45.9	-62.6	43.5
3344.000	-59.841	-13.00	46.84	500.0	1000.0	221.0	V	135.0	-	5.8	-45.9	-62.6	42.8
4037.496	-61.323	-13.00	48.32	500.0	1000.0	143.0	V	209.0	-	6.3	-45.7	-61.9	40.0
4984.409	-65.886	-13.00	52.89	500.0	1000.0	194.0	H	268.0	-99.9	6.9	-45.8	-61.1	34.0





Plot # 31

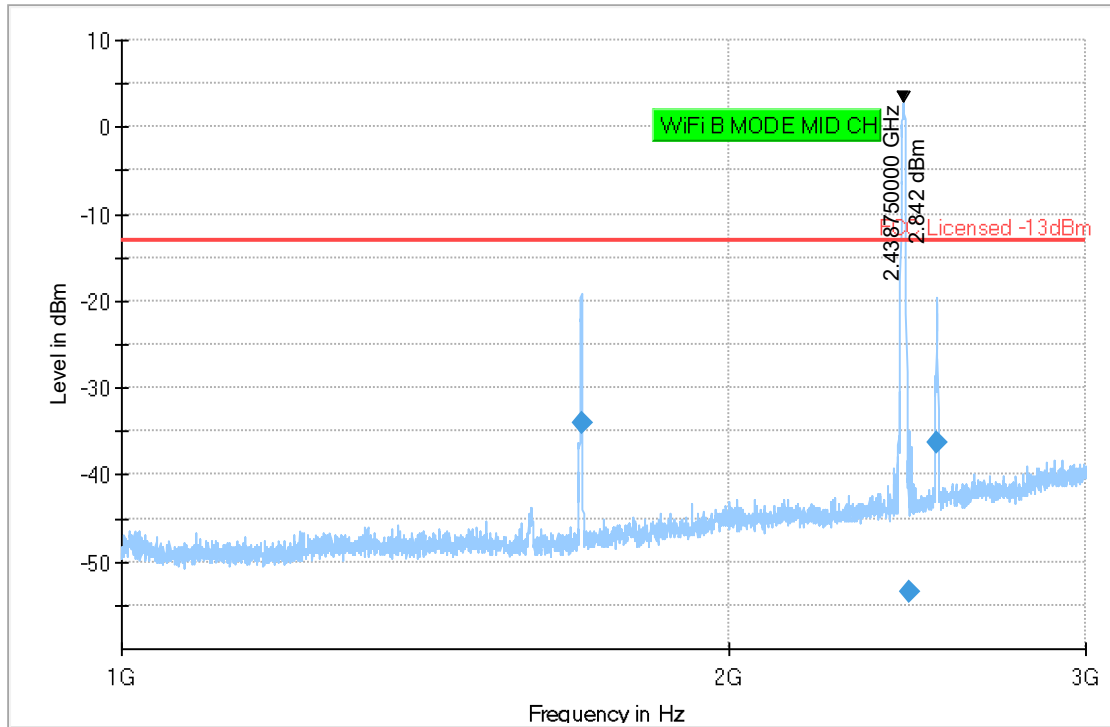
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
249.989	-61.247	-13.00	48.25	500.0	100.0	164.0	H	349.0	-73.1	1.5	0.0	-74.6	11.8
283.662	-79.152	-13.00	66.15	500.0	100.0	125.0	H	-6.0	-76.1	1.5	0.0	-77.7	-3.0



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

Plot # 32

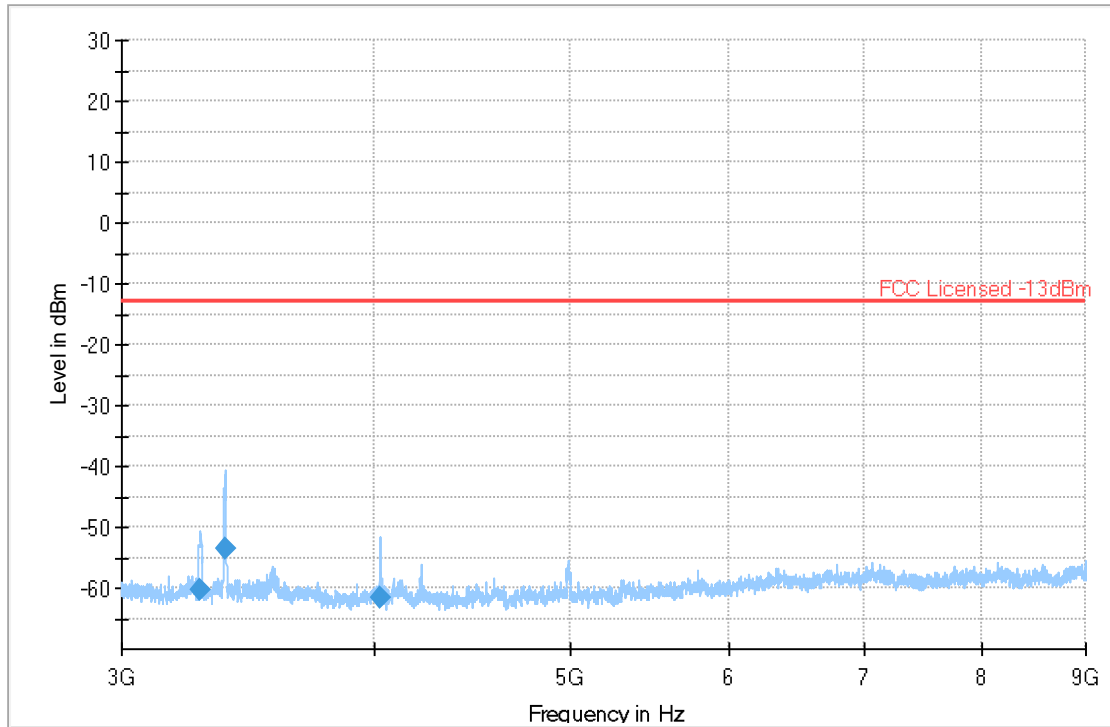
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1688.302	-33.987	-13.00	20.99	500.0	1000.0	215.0	H	59.0	-64.8	4.6	0.0	-69.4	30.8
2453.500	-53.408	-13.00	40.41	500.0	1000.0	229.0	H	104.0	-61.5	5.4	0.0	-67.0	8.1
2532.811	-36.185	-13.00	23.19	500.0	1000.0	187.0	H	105.0	-61.2	5.5	0.0	-66.7	25.1



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

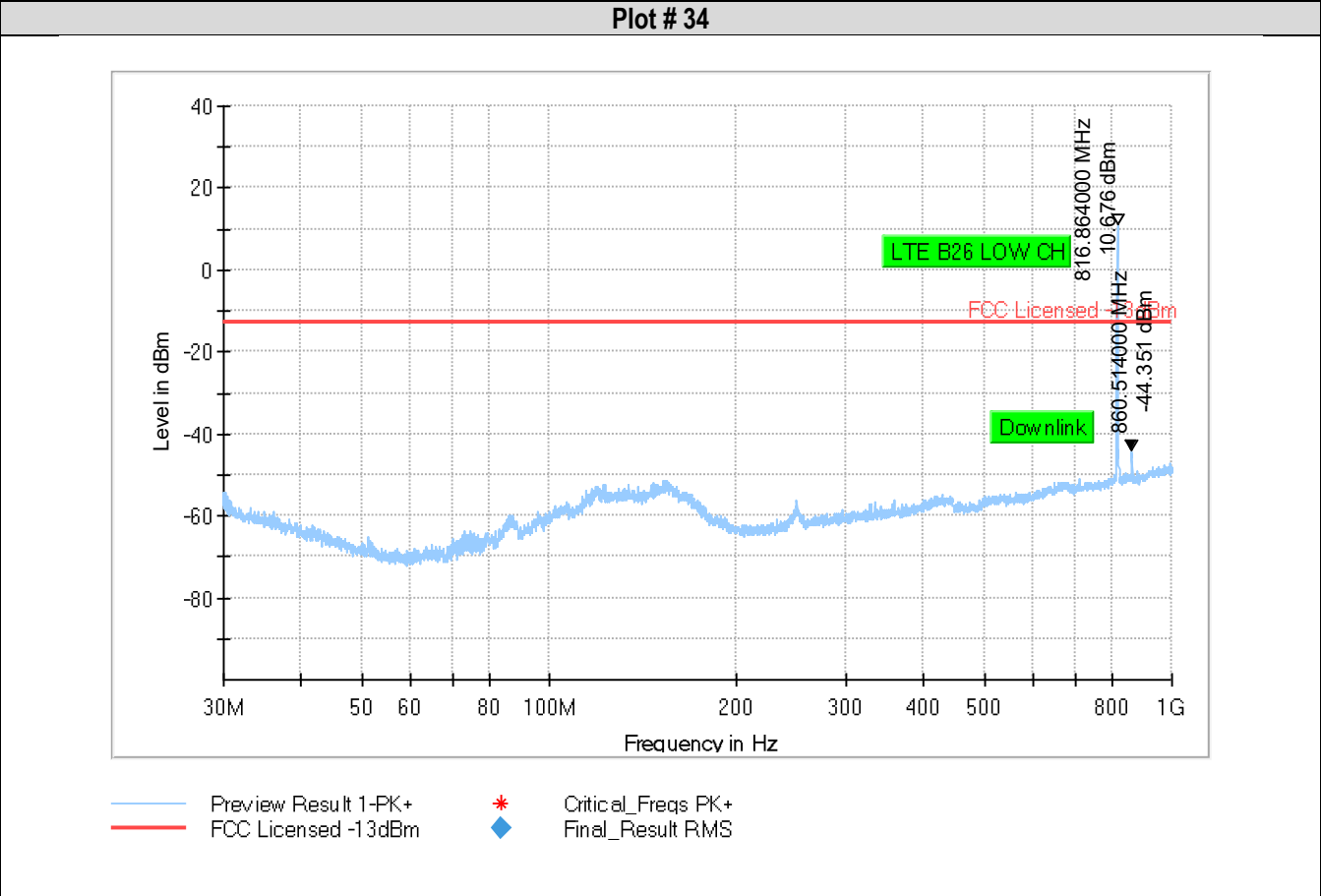
Plot # 33

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preampl (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3280.028	-60.476	-13.00	47.48	500.0	1000.0	169.0	V	186.0	-	5.6	-45.9	-62.6	42.5
3375.500	-53.570	-13.00	40.57	500.0	1000.0	144.0	V	240.0	-	5.8	-45.9	-62.6	49.0
4030.630	-61.476	-13.00	48.48	500.0	1000.0	204.0	V	206.0	-	6.3	-45.7	-62.0	39.9



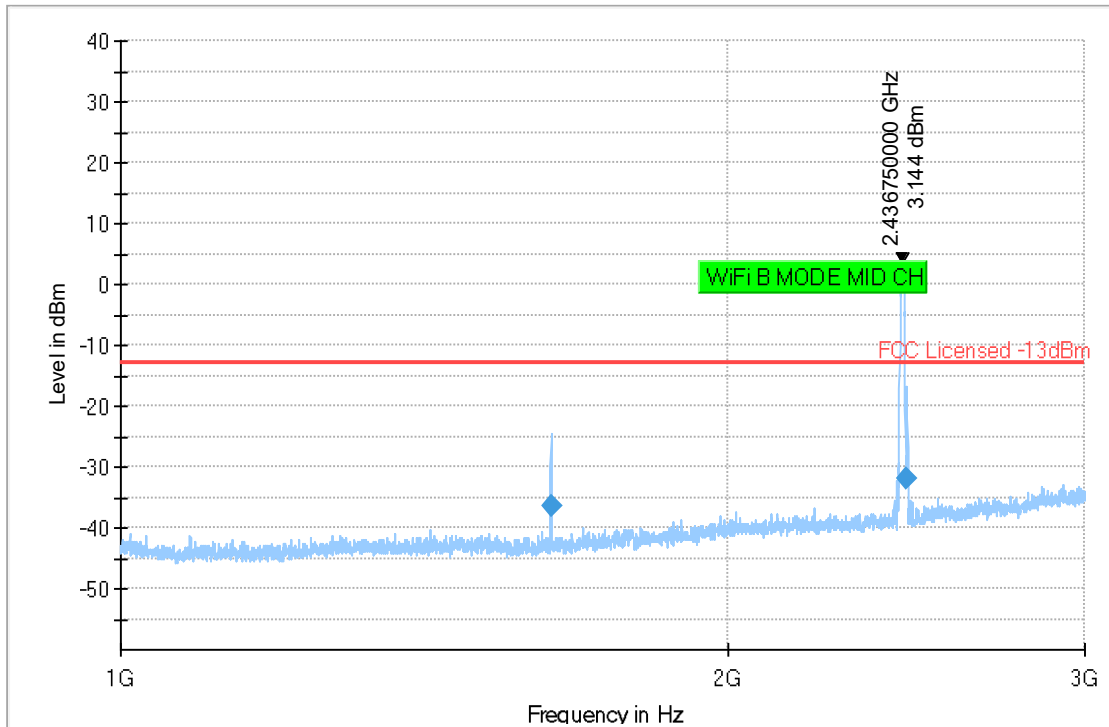
— Preview Result 1-PK+ — FCC Licensed -13dBm ◆ Final_Result RMS

8.1.5.4 LTE Band 26



Plot # 35

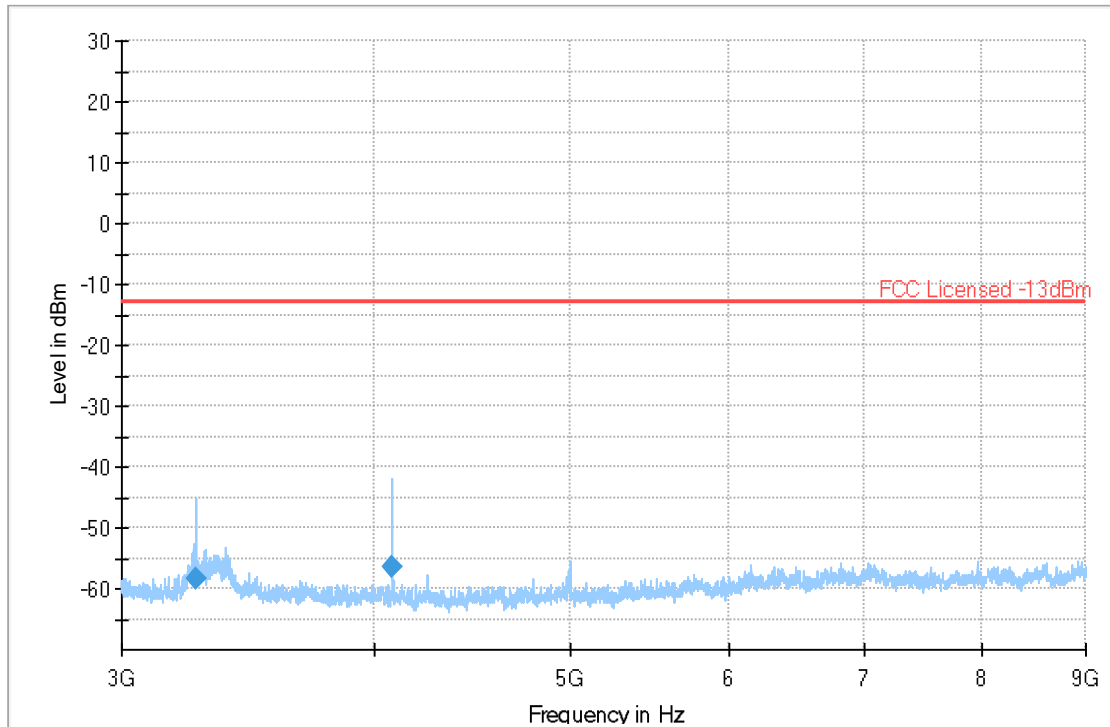
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1633.000	-36.572	-13.00	23.57	500.0	1000.0	334.0	H	232.0	-65.2	4.5	0.0	-69.7	28.6
2450.750	-31.908	-13.00	18.91	500.0	1000.0	194.0	V	288.0	-61.6	5.5	0.0	-67.0	29.7



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

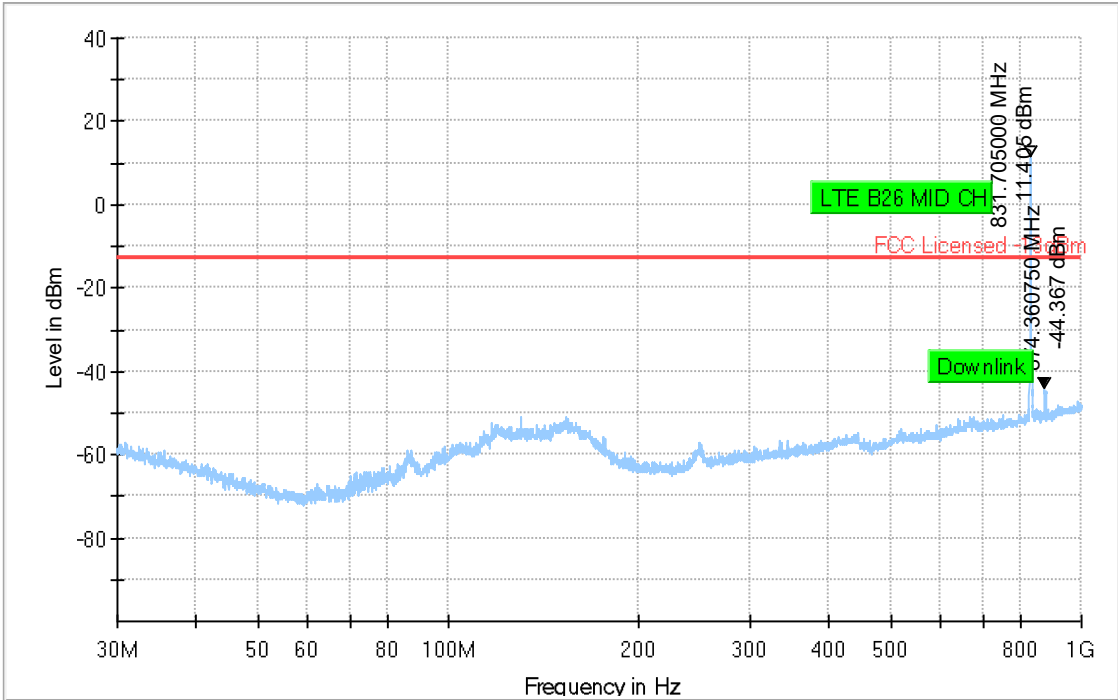
Plot # 36

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3267.219	-58.334	-13.00	45.33	500.0	1000.0	116.0	V	329.0	-	5.6	-45.9	-62.6	44.6
4084.080	-56.347	-13.00	43.35	500.0	1000.0	195.0	V	148.0	-	6.4	-45.7	-61.9	44.8



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

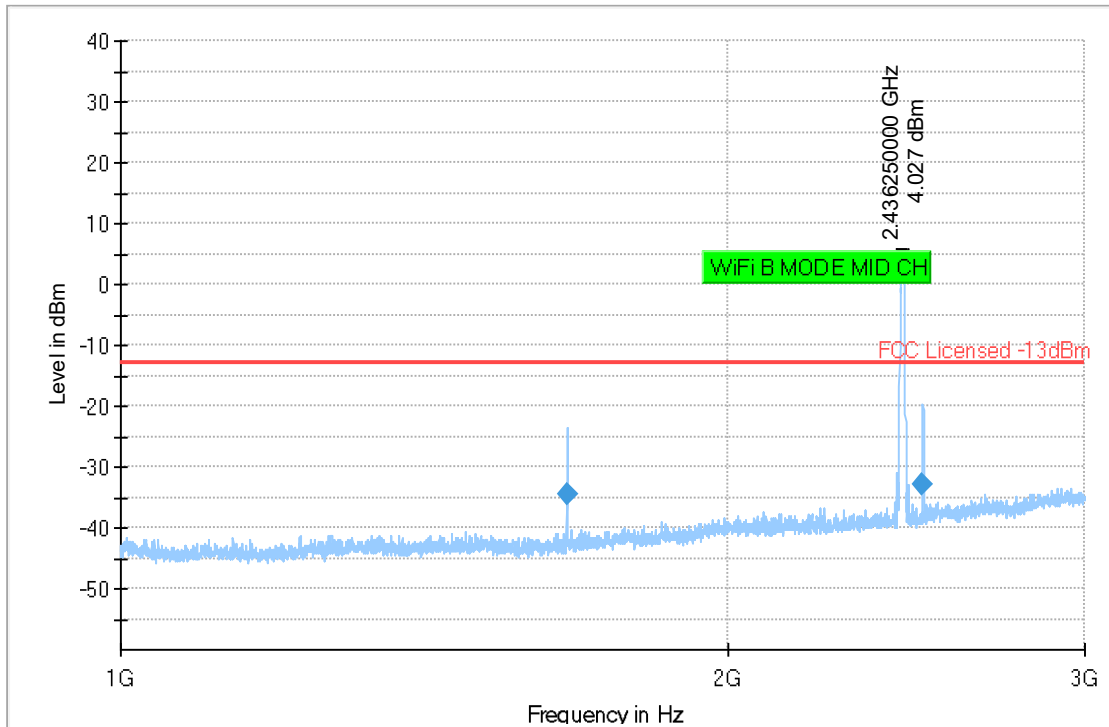
Plot # 37



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

Plot # 38

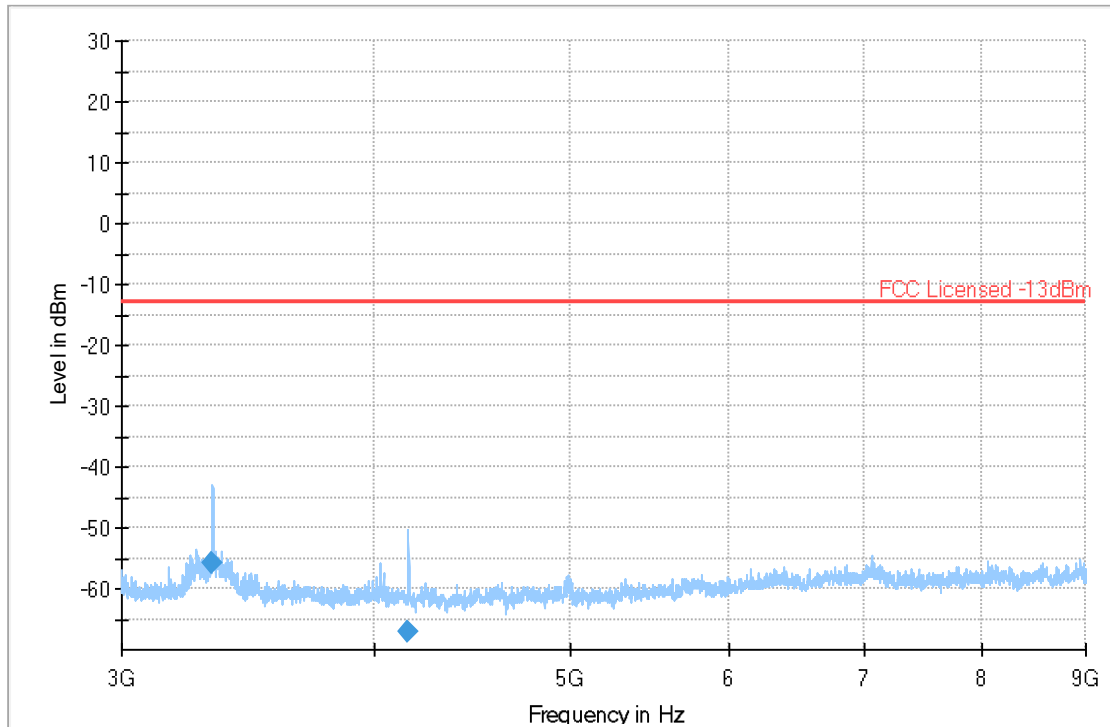
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1663.750	-34.511	-13.00	21.51	500.0	1000.0	400.0	H	196.0	-65.0	4.5	0.0	-69.5	30.5
2494.750	-32.900	-13.00	19.90	500.0	1000.0	193.0	V	-6.0	-61.5	5.3	0.0	-66.9	28.6



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

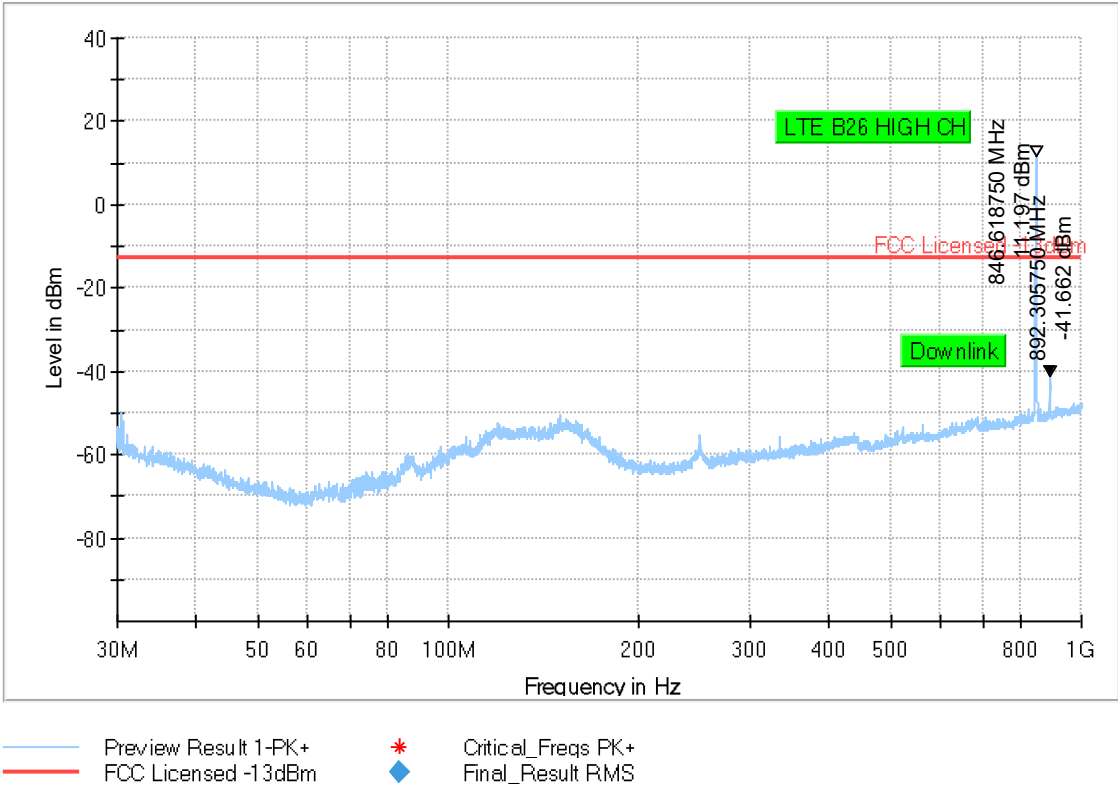
Plot # 39

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preampl (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3327.000	-55.798	-13.00	42.80	500.0	1000.0	134.0	V	330.0	-	5.8	-45.9	-62.6	46.9
4157.776	-67.016	-13.00	54.02	500.0	1000.0	177.0	V	273.0	-	6.5	-45.2	-61.8	33.6



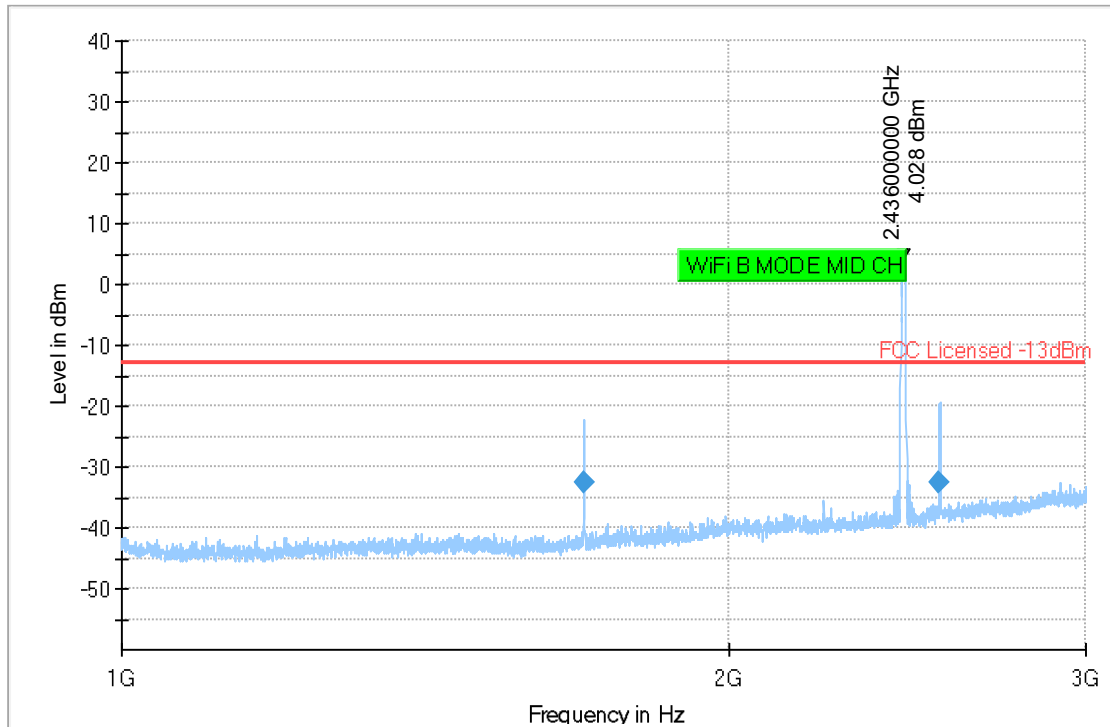
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS

Plot # 40



Plot # 41

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1693.500	-32.569	-13.00	19.57	500.0	1000.0	377.0	V	250.0	-64.6	4.6	0.0	-69.2	32.1
2540.112	-32.555	-13.00	19.55	500.0	1000.0	159.0	V	124.0	-61.2	5.5	0.0	-66.7	28.6

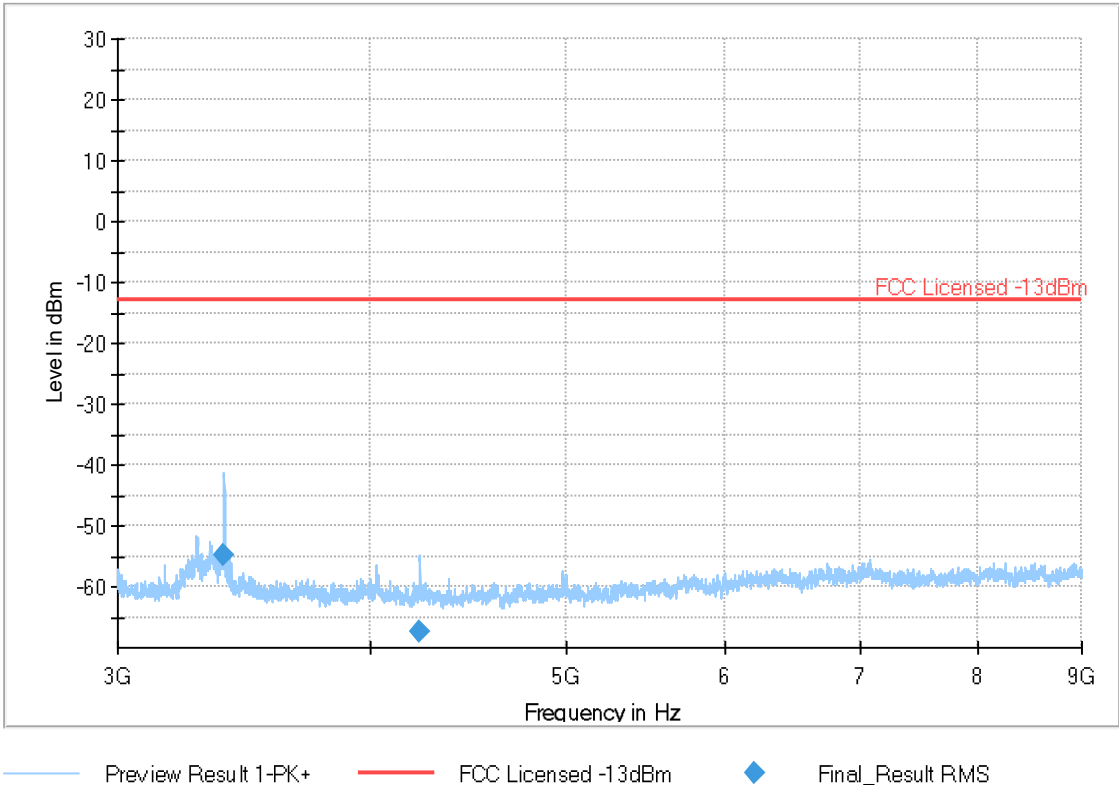


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS

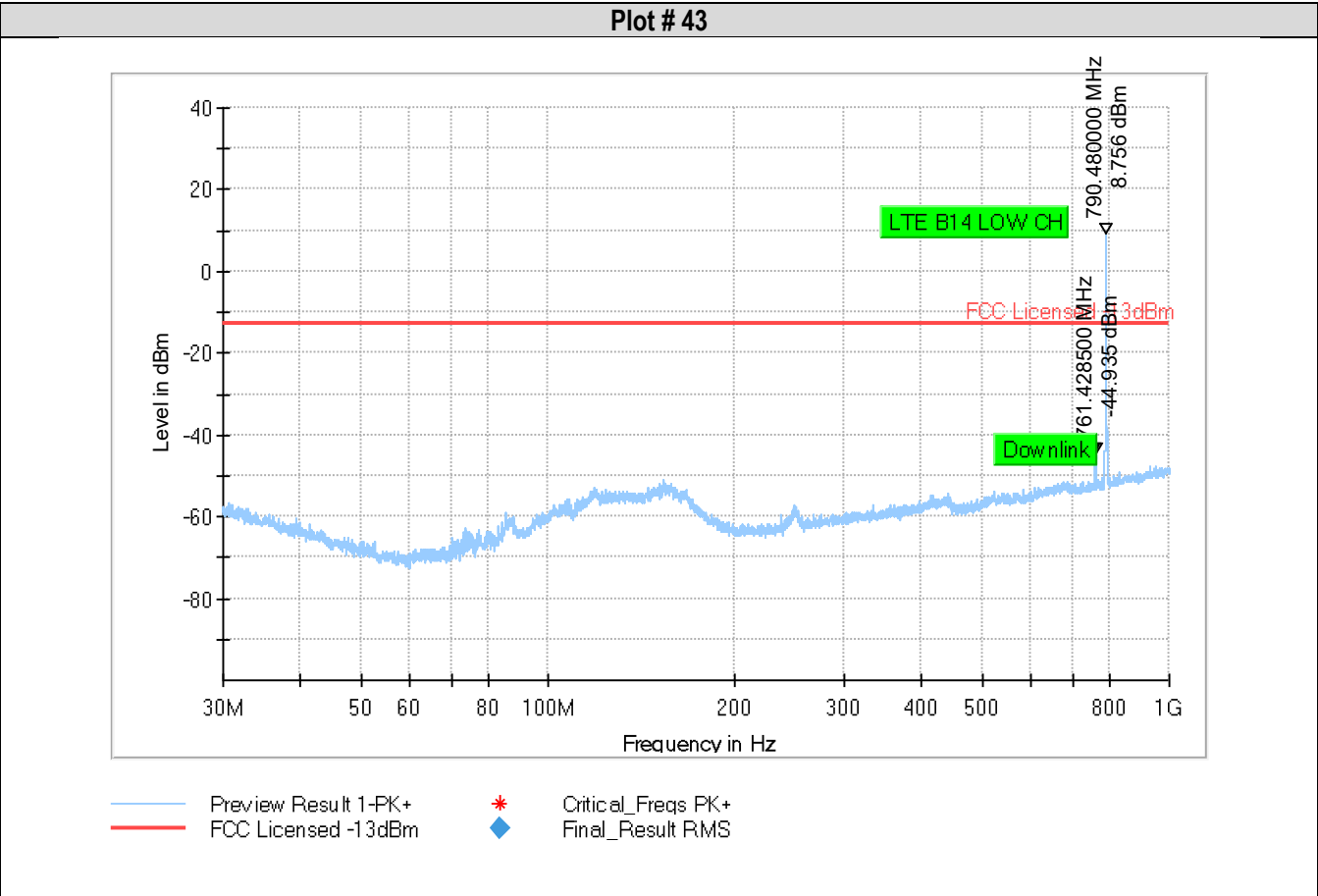


Plot # 42

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3387.000	-54.819	-13.00	41.82	500.0	1000.0	143.0	V	328.0	-	5.9	-45.9	-62.5	47.7
4233.467	-67.480	-13.00	54.48	500.0	1000.0	207.0	V	55.0	-	6.6	-45.2	-61.8	32.9

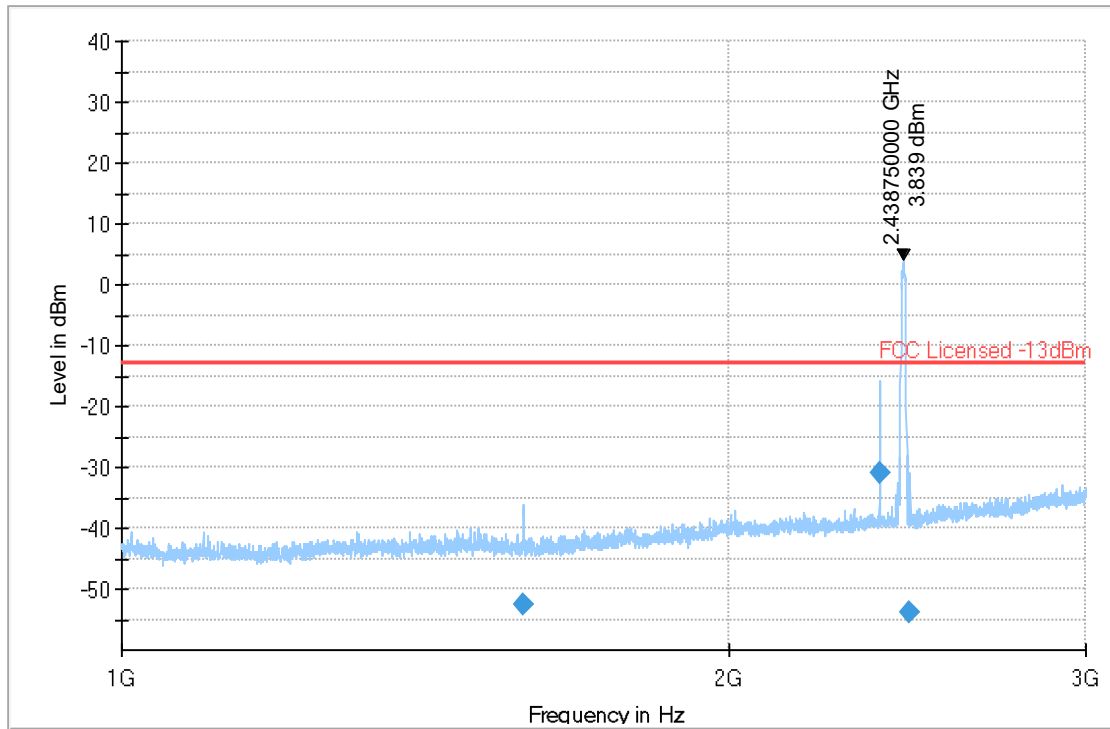


8.1.5.5 LTE Band 14



Plot # 44

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preampl (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1581.086	-52.648	-13.00	39.65	500.0	1000.0	231.0	H	27.0	-65.4	4.5	0.0	-69.9	12.8
2372.151	-31.074	-13.00	18.07	500.0	1000.0	142.0	V	283.0	-62.1	5.2	0.0	-67.3	31.1
2451.750	-54.002	-13.00	41.00	500.0	1000.0	219.0	V	-26.0	-61.6	5.5	0.0	-67.0	7.6

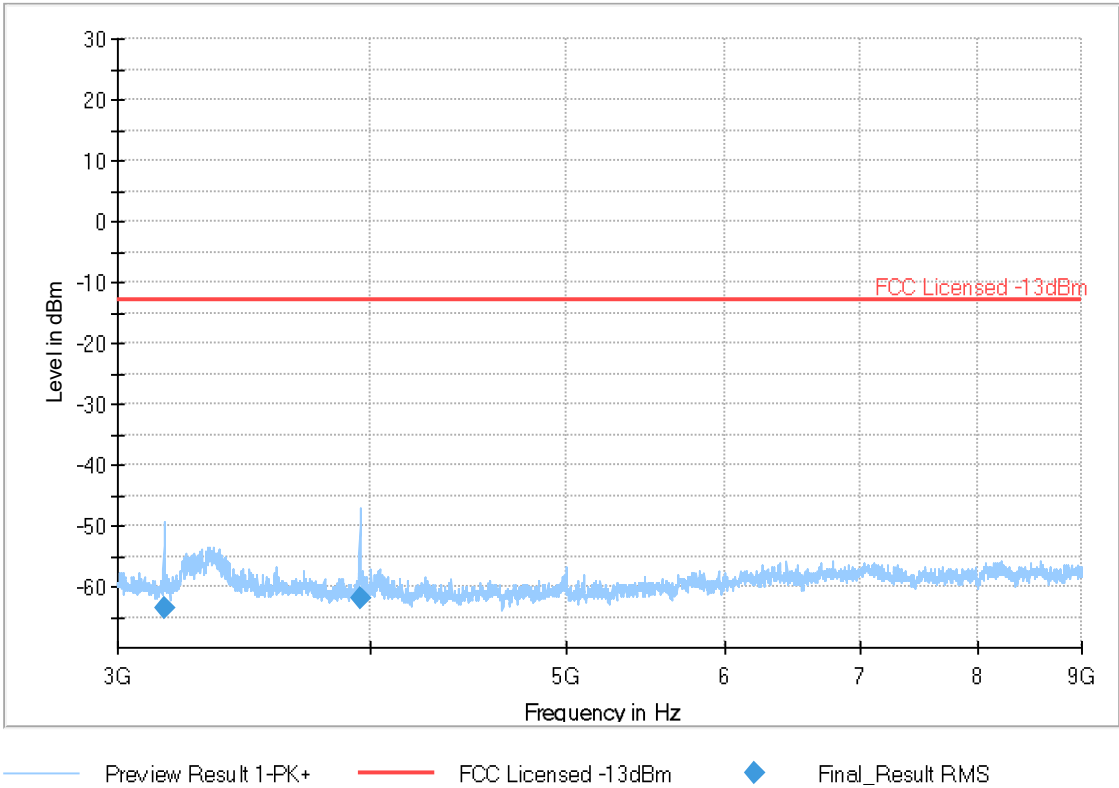


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS

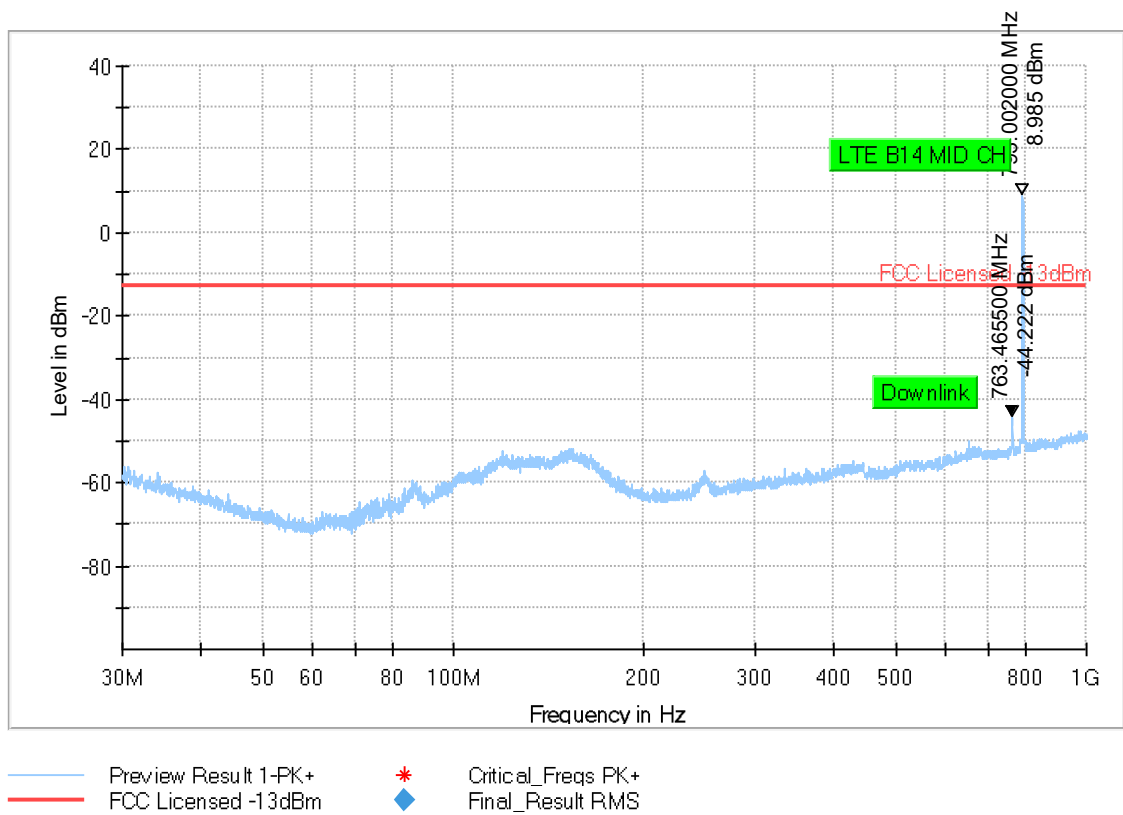


Plot # 45

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3163.562	-63.661	-13.00	50.66	500.0	1000.0	117.0	V	323.0	-	5.5	-46.0	-62.6	39.4
3955.000	-61.971	-13.00	48.97	500.0	1000.0	126.0	V	294.0	-	6.3	-45.8	-62.0	39.6

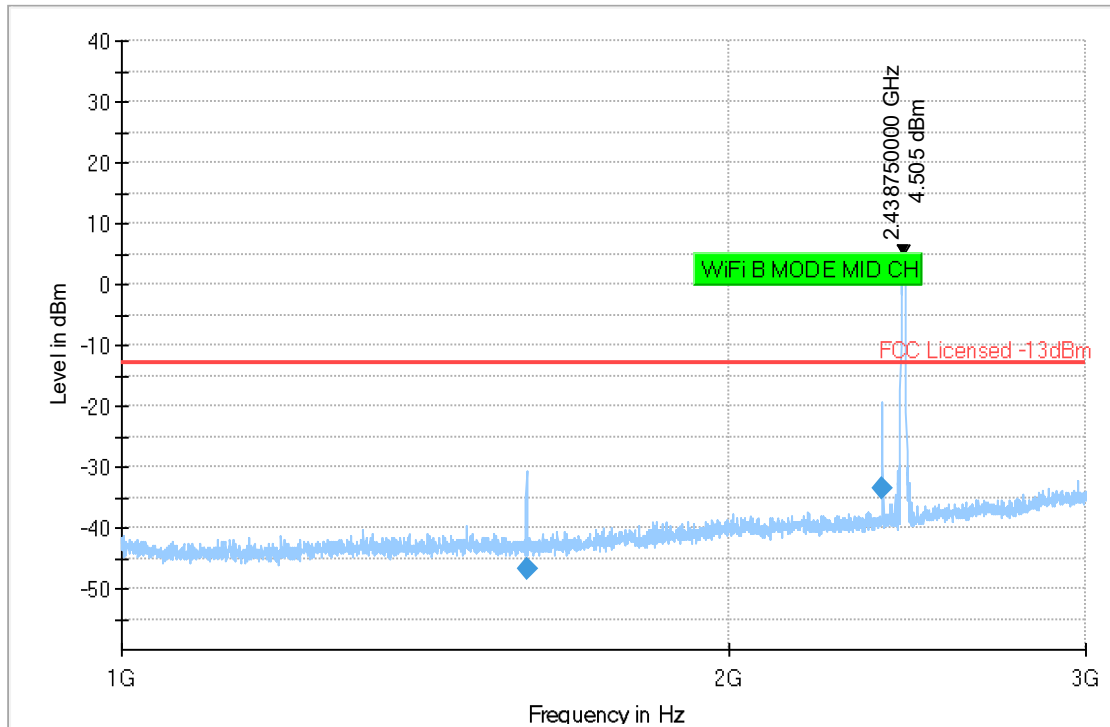


Plot # 46



Plot # 47

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1586.245	-46.919	-13.00	33.92	500.0	1000.0	168.0	H	138.0	-65.4	4.5	0.0	-69.9	18.4
2379.876	-33.688	-13.00	20.69	500.0	1000.0	210.0	V	-27.0	-62.1	5.2	0.0	-67.3	28.4

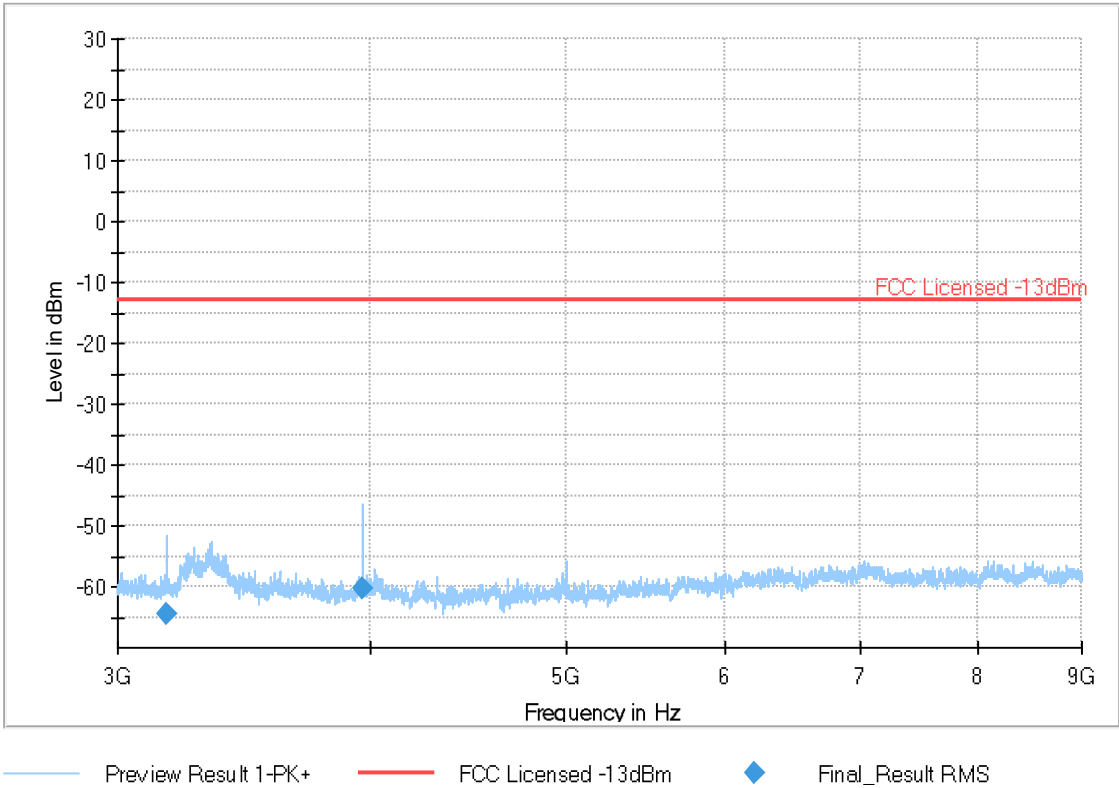


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS

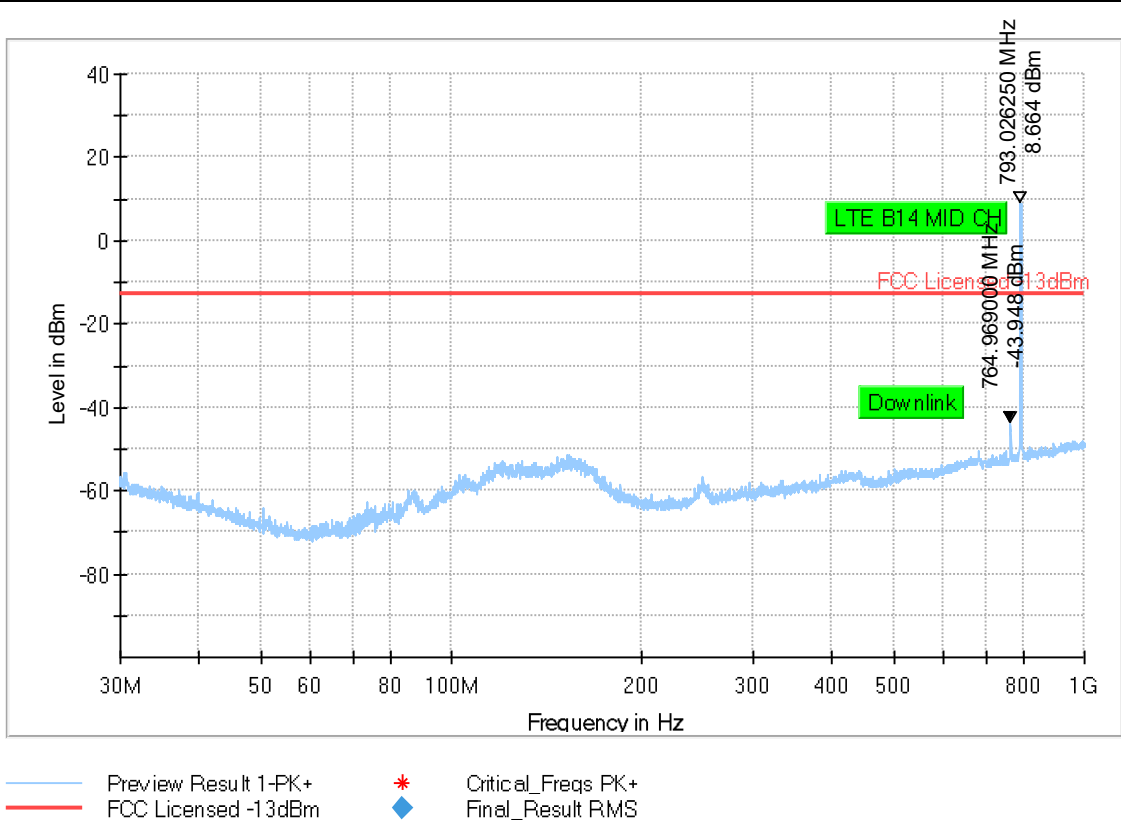


Plot # 48

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3172.877	-64.617	-13.00	51.62	500.0	1000.0	100.0	V	324.0	-	5.5	-46.0	-62.6	38.5
3966.916	-60.278	-13.00	47.28	500.0	1000.0	159.0	V	290.0	-	6.3	-45.8	-62.0	41.2

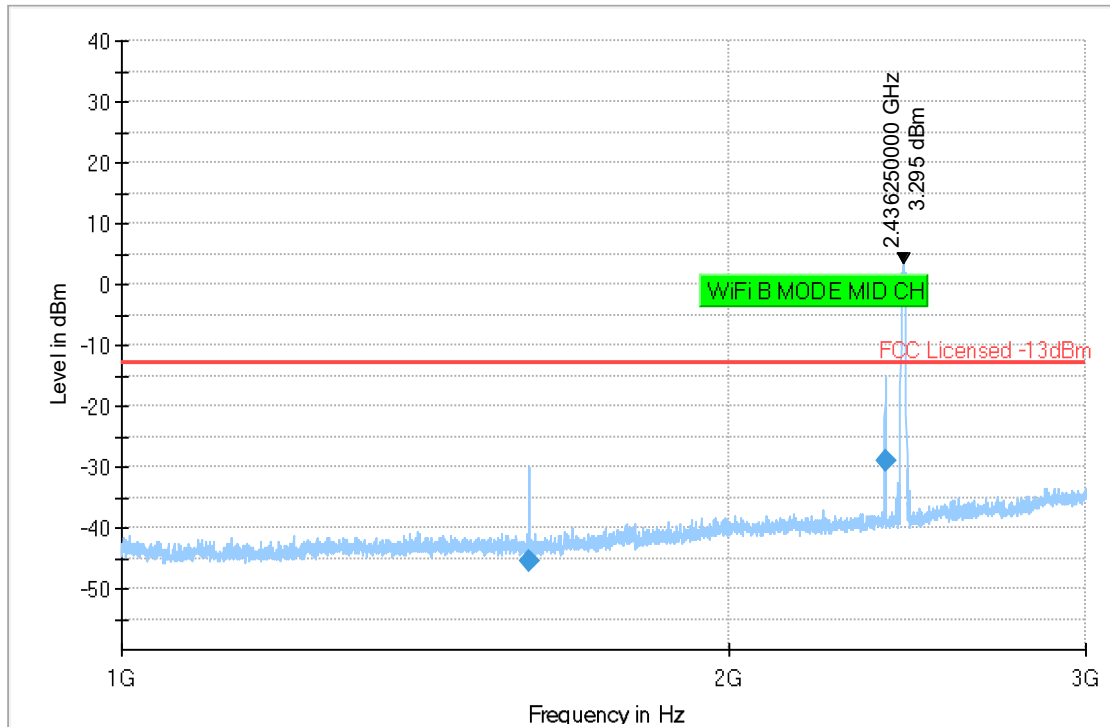


Plot # 49



Plot # 50

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1590.959	-45.446	-13.00	32.45	500.0	1000.0	391.0	H	143.0	-65.3	4.5	0.0	-69.9	19.9
2387.250	-28.904	-13.00	15.90	500.0	1000.0	169.0	V	279.0	-62.0	5.2	0.0	-67.3	33.1

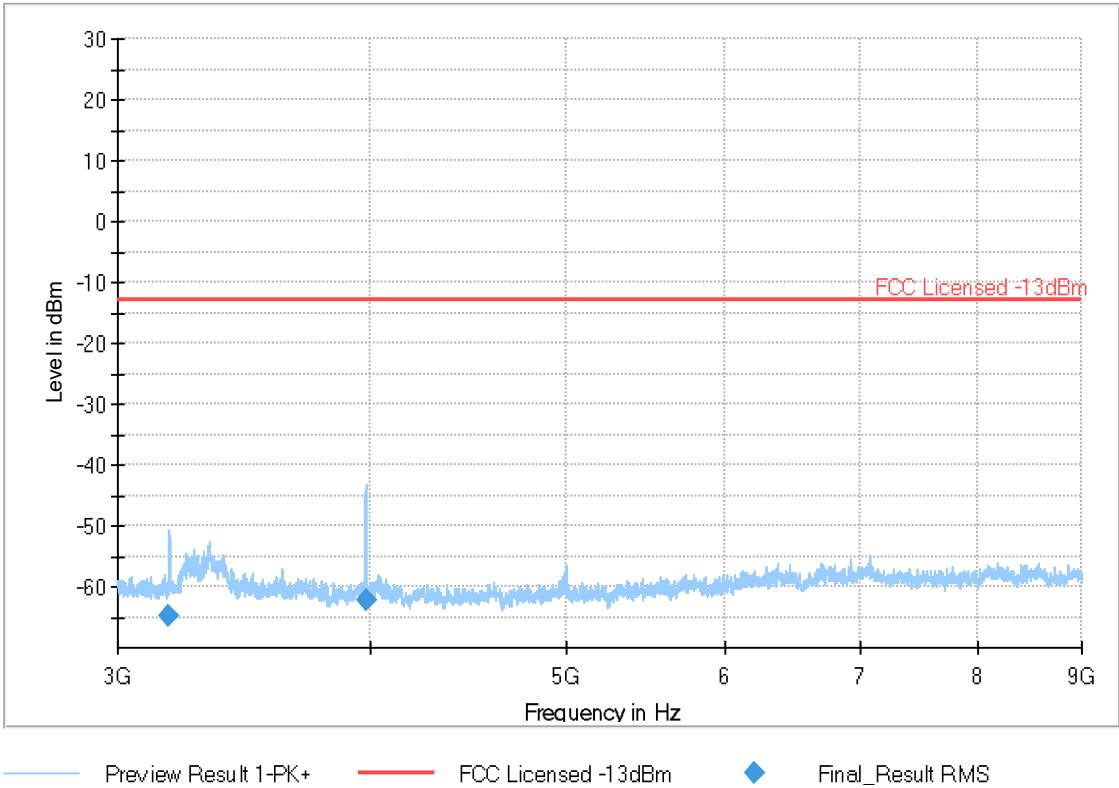


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS



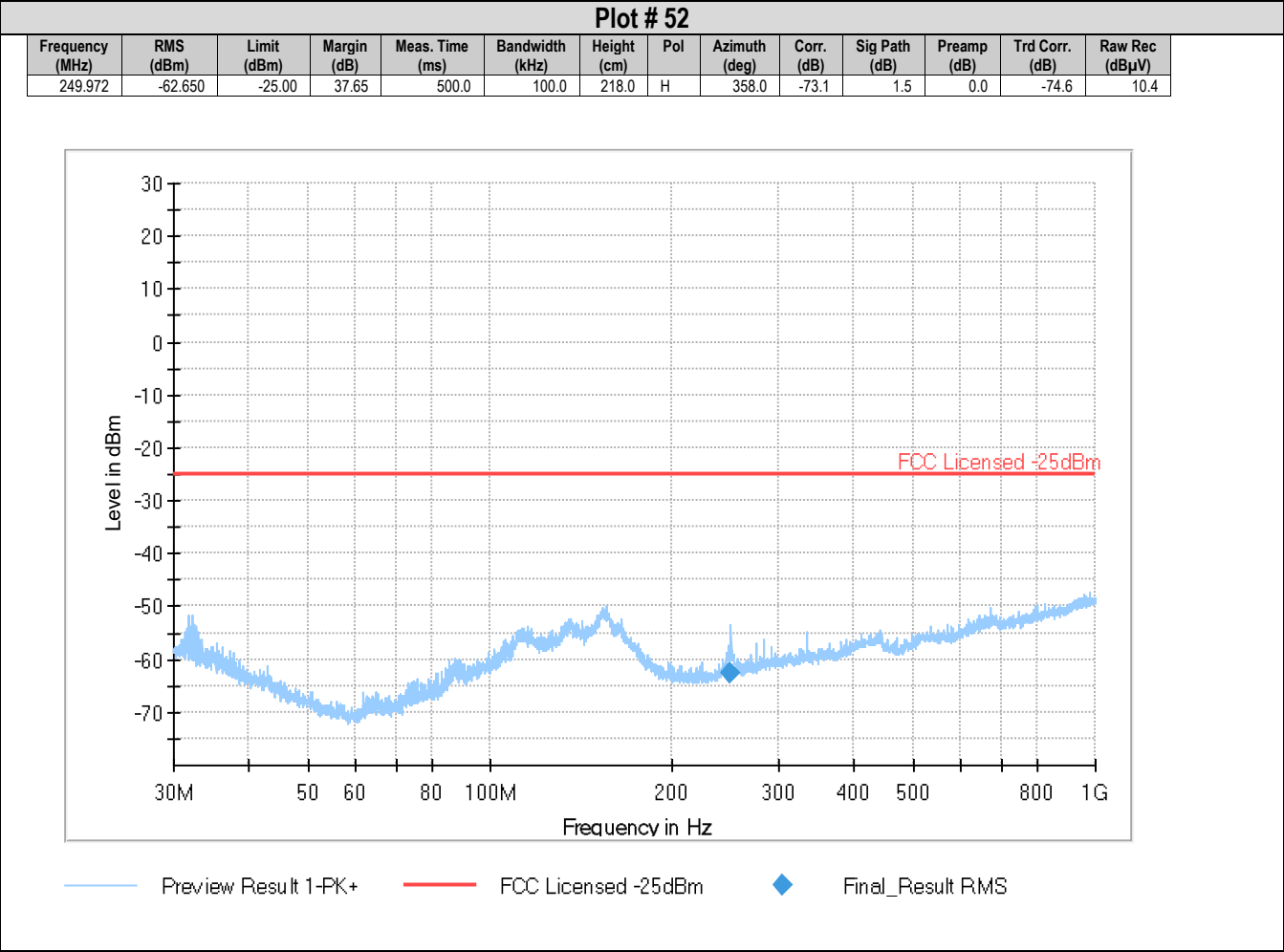
Plot # 51

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3182.478	-64.970	-13.00	51.97	500.0	1000.0	118.0	V	333.0	-	5.5	-46.0	-62.6	38.1
3980.313	-62.384	-13.00	49.38	500.0	1000.0	163.0	V	45.0	-	6.3	-45.8	-62.0	39.1





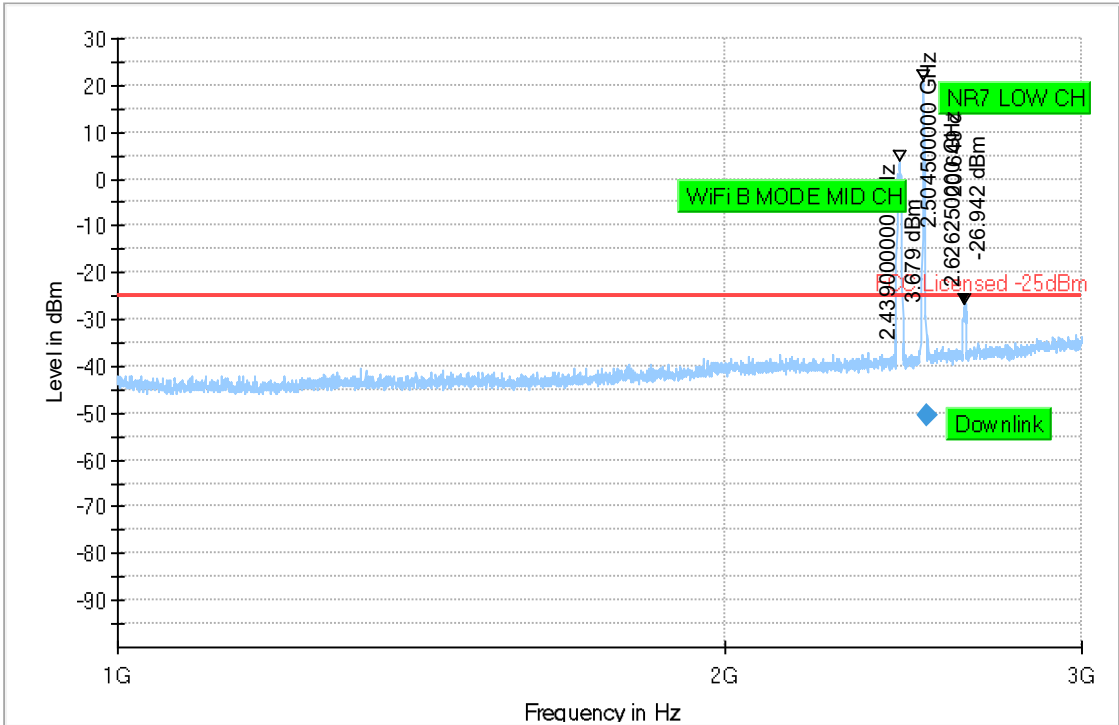
8.1.5.6 NR7





Plot # 53

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2517.250	-50.335	-25.00	25.33	500.0	1000.0	186.0	H	90.0	-61.3	5.4	0.0	-66.8	11.0

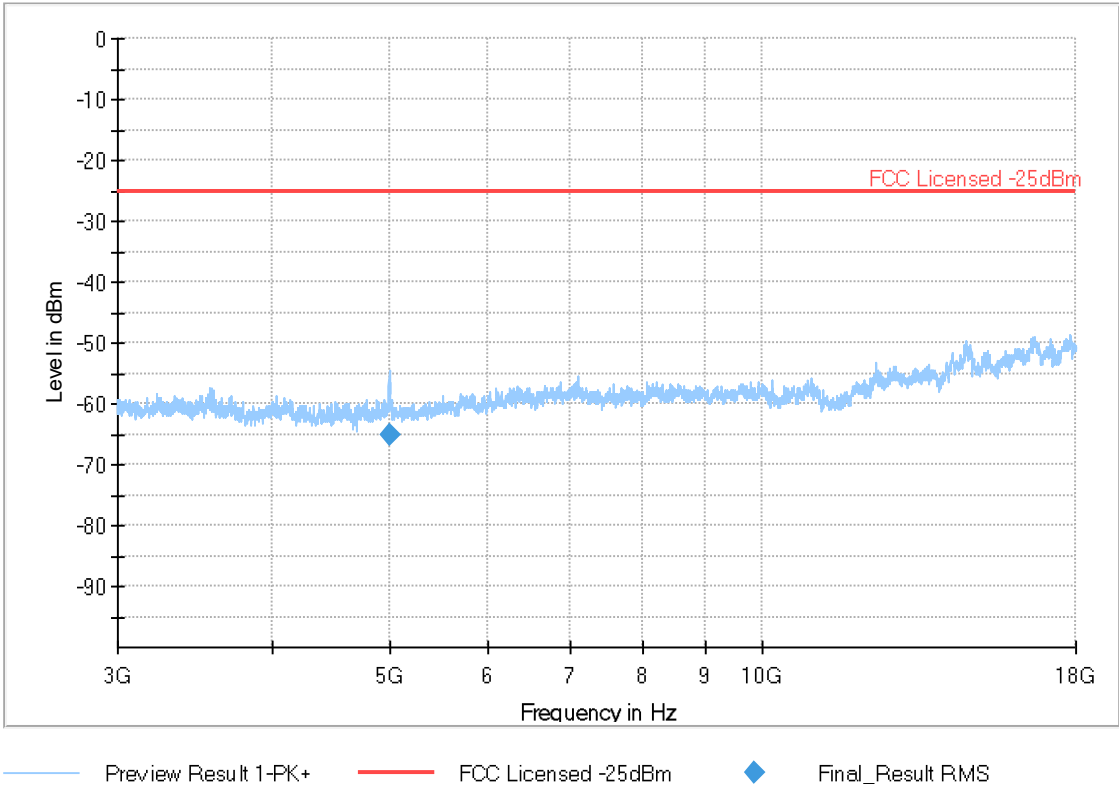


Preview Result 1-PK+ FCC Licensed -25dBm Final_Result RMS



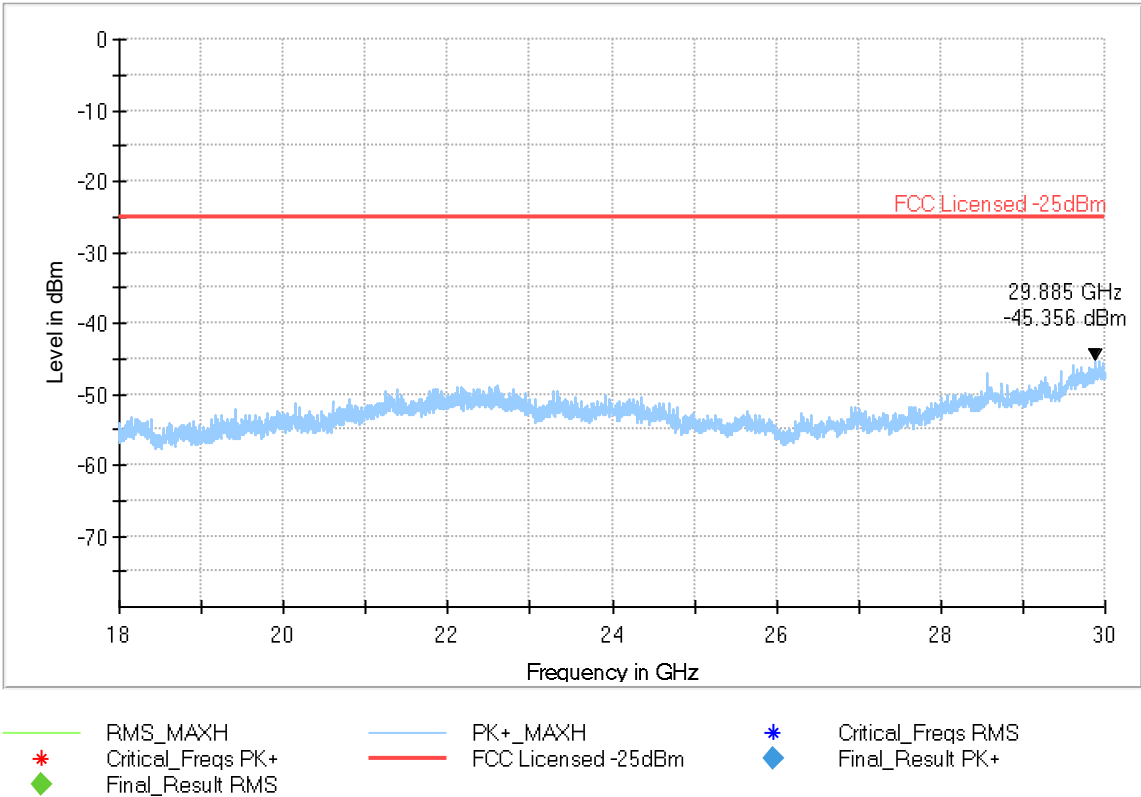
Plot # 54

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
4984.219	-65.133	-25.00	40.13	500.0	1000.0	184.0	H	274.0	-99.9	6.9	-45.8	-61.1	34.8



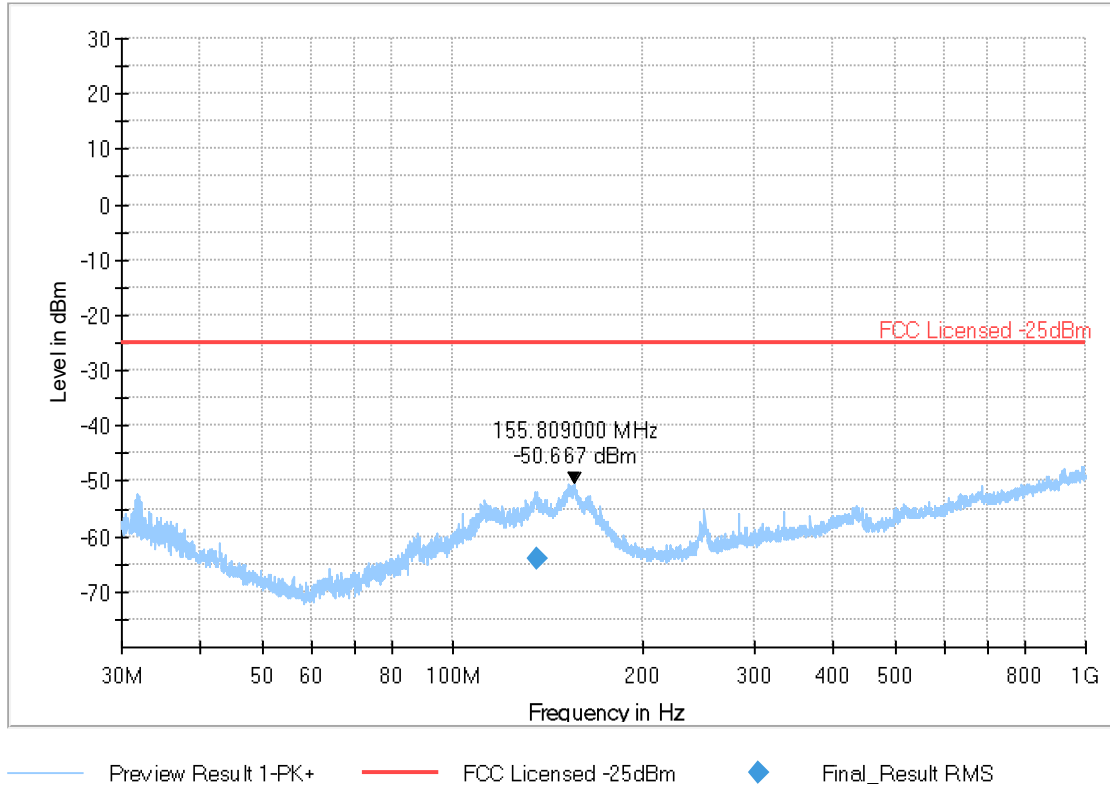


Plot # 55



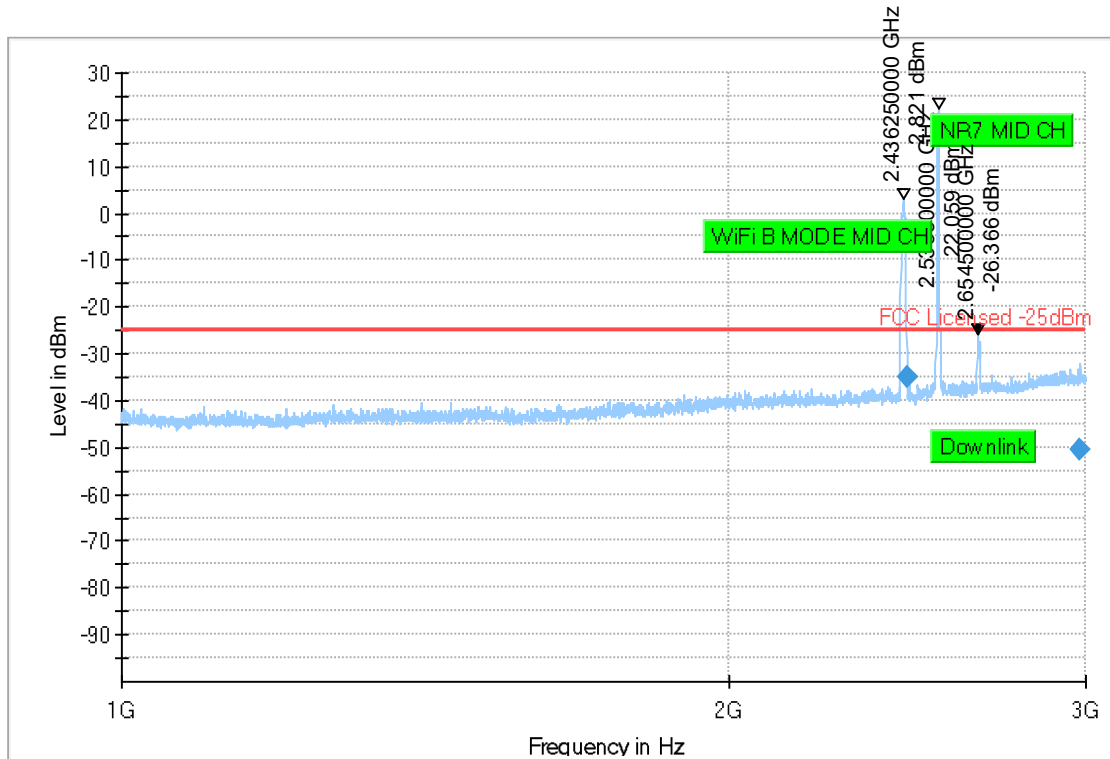
Plot # 56

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
135.633	-63.857	-25.00	38.86	500.0	100.0	202.0	H	139.0	-71.4	1.1	0.0	-72.5	7.5



Plot # 57

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2446.000	-34.882	-25.00	9.88	500.0	1000.0	229.0	H	106.0	-61.6	5.5	0.0	-67.0	26.7
2982.750	-50.589	-25.00	25.59	500.0	1000.0	125.0	H	13.0	-59.5	5.9	0.0	-65.4	8.9



Preview Result 1-PK+

FCC Licensed -25dBm

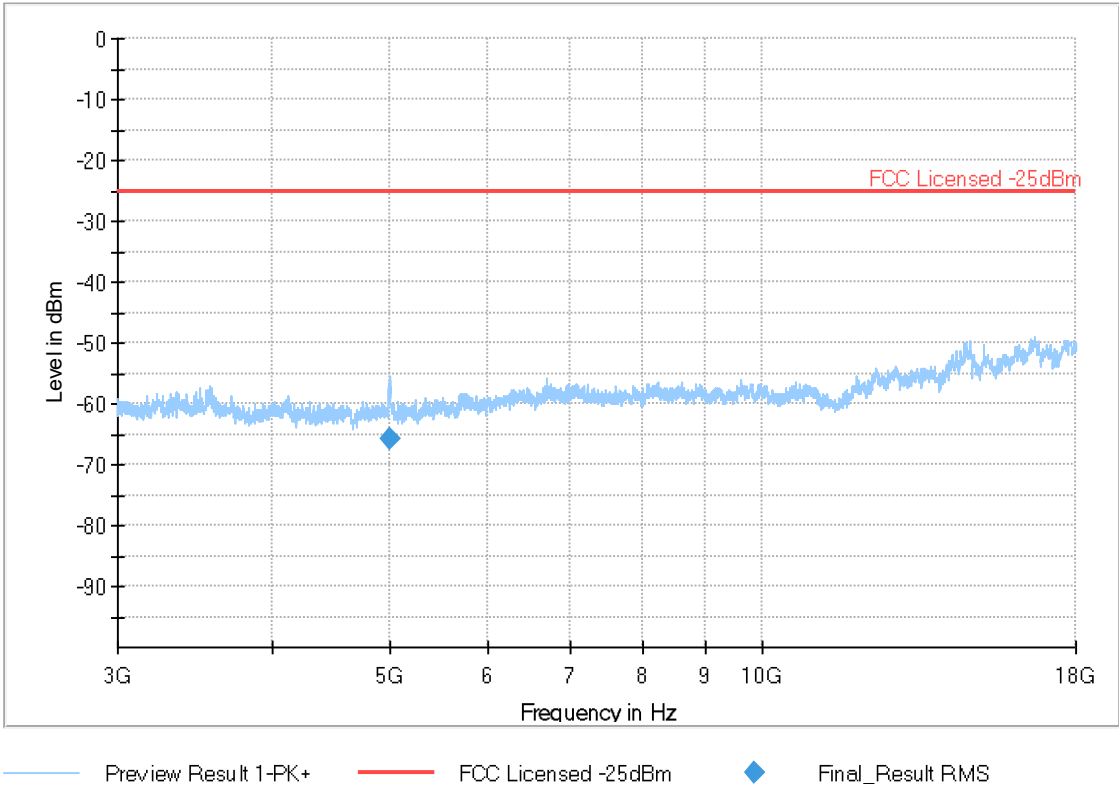


Final_Result RMS

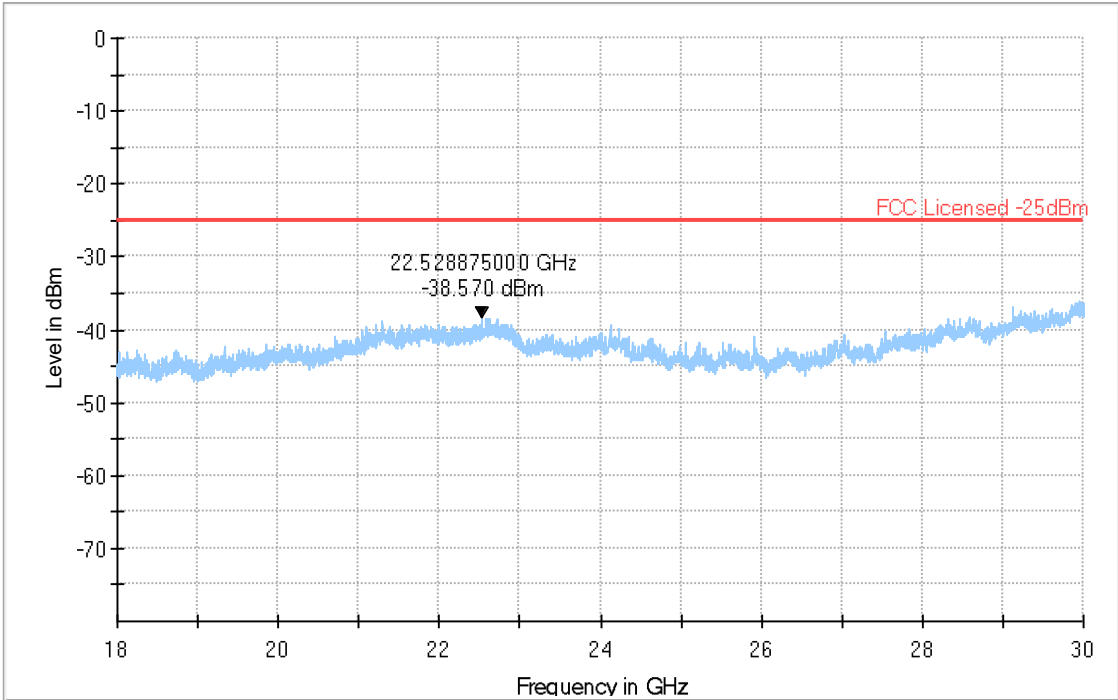


Plot # 58

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
4983.750	-65.929	-25.00	40.93	500.0	1000.0	237.0	H	270.0	-99.9	6.9	-45.8	-61.1	34.0



Plot # 59

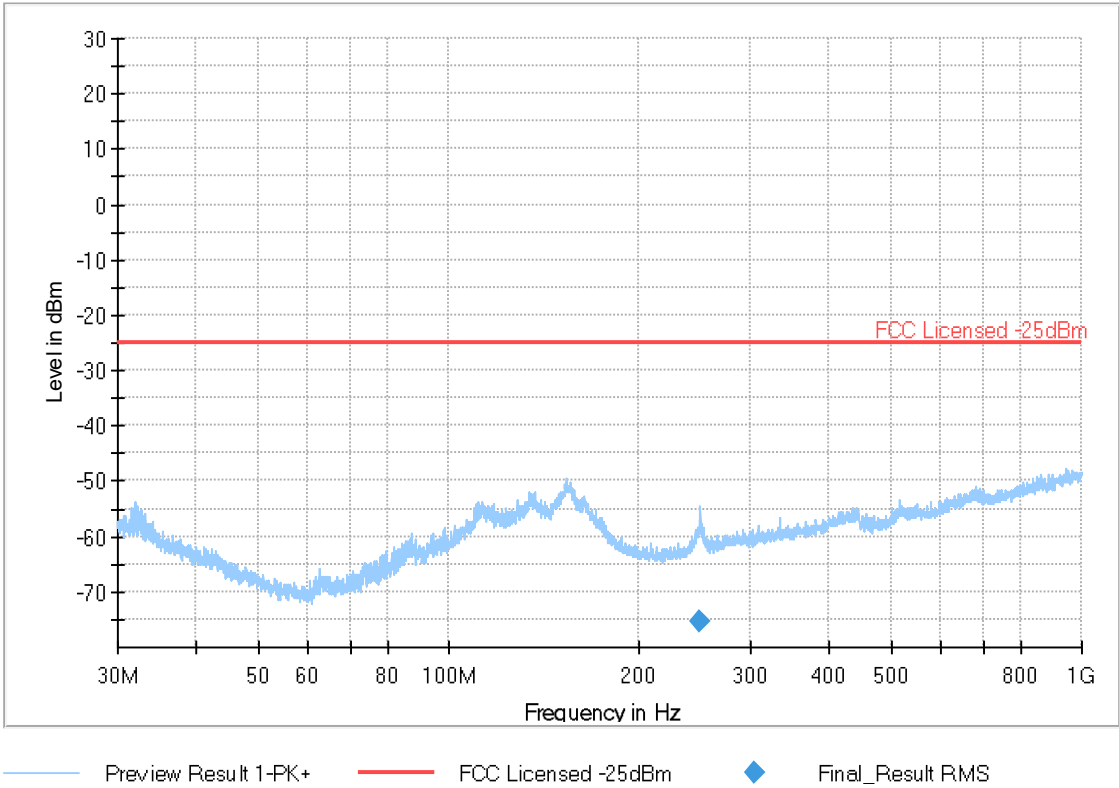


Preview Result 1-PK+ * Critical_Freqs PK+
FCC Licensed -25dBm ◆ Final_Result RMS



Plot # 60

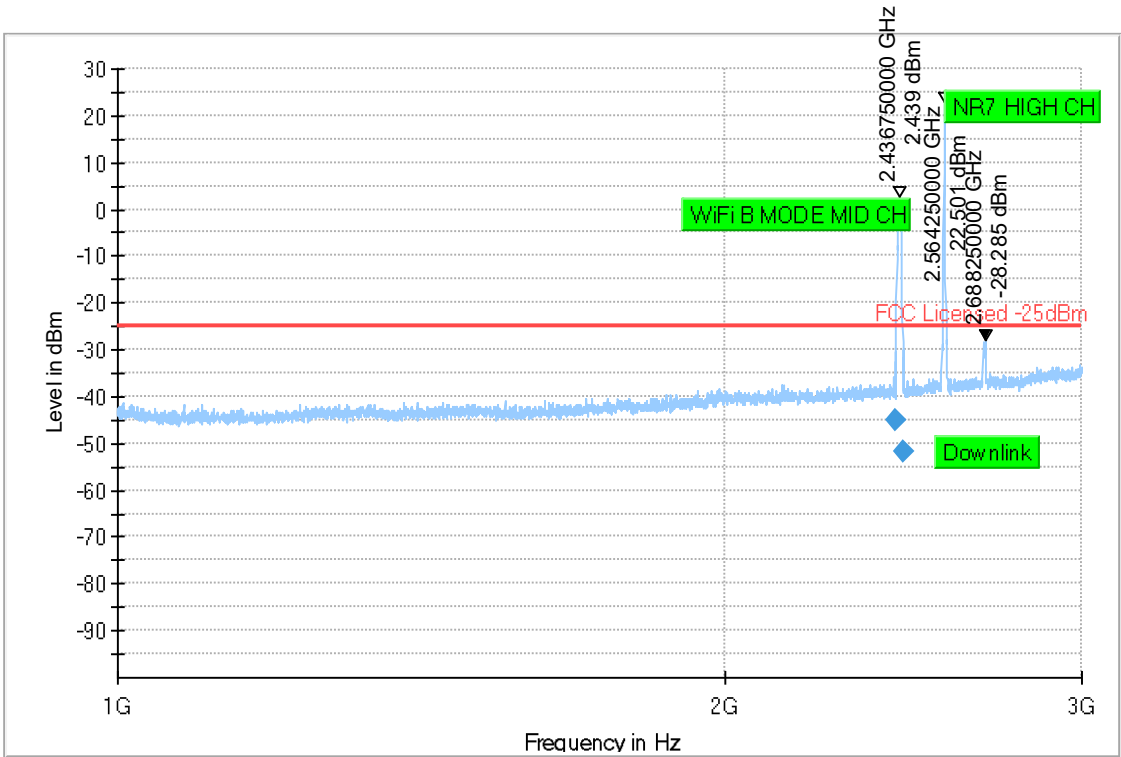
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
249.972	-75.256	-25.00	50.26	500.0	100.0	192.0	H	50.0	-73.1	1.5	0.0	-74.6	-2.2





Plot # 61

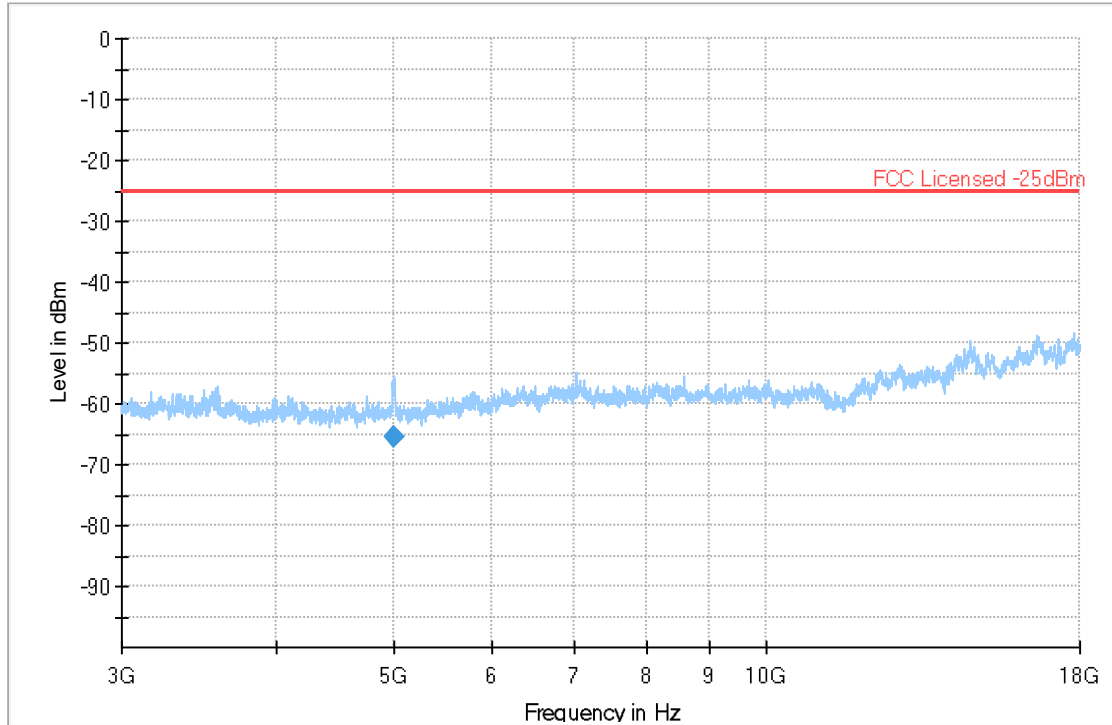
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2426.500	-45.211	-25.00	20.21	500.0	1000.0	236.0	H	104.0	-61.7	5.4	0.0	-67.1	16.5
2450.000	-51.579	-25.00	26.58	500.0	1000.0	246.0	H	106.0	-61.5	5.5	0.0	-67.0	10.0



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

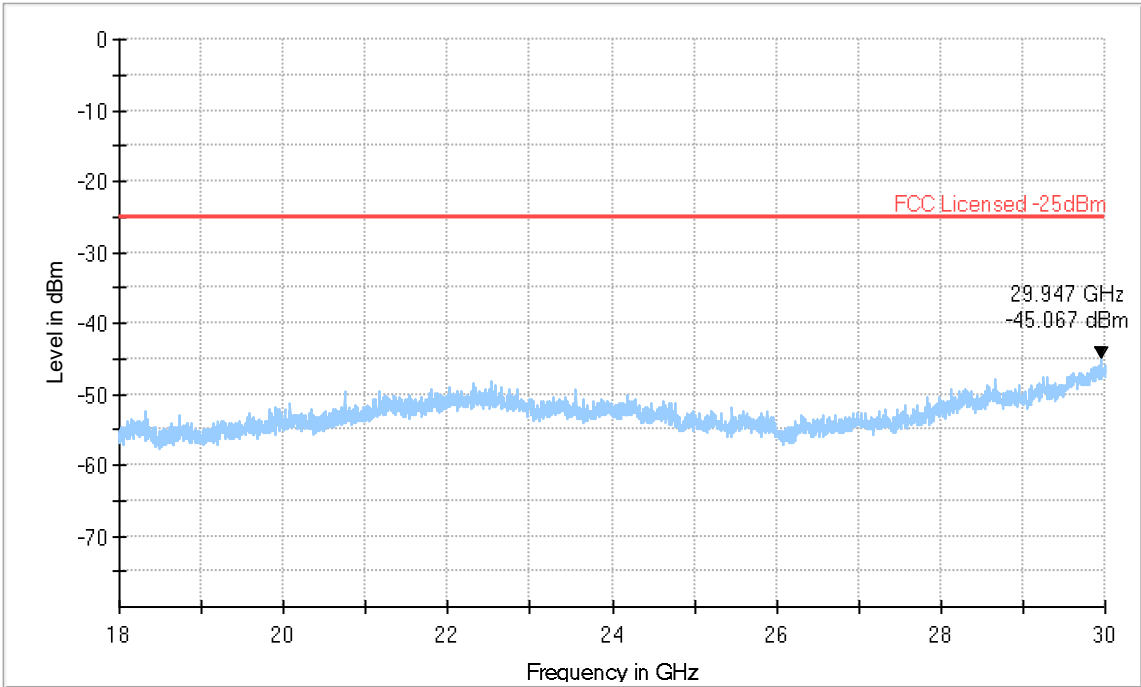
Plot # 62

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
4989.375	-65.551	-25.00	40.55	500.0	1000.0	158.0	H	276.0	-99.9	7.0	-45.8	-61.1	34.3



— Preview Result 1-PK+ — FCC Licensed -25dBm ◆ Final_Result RMS

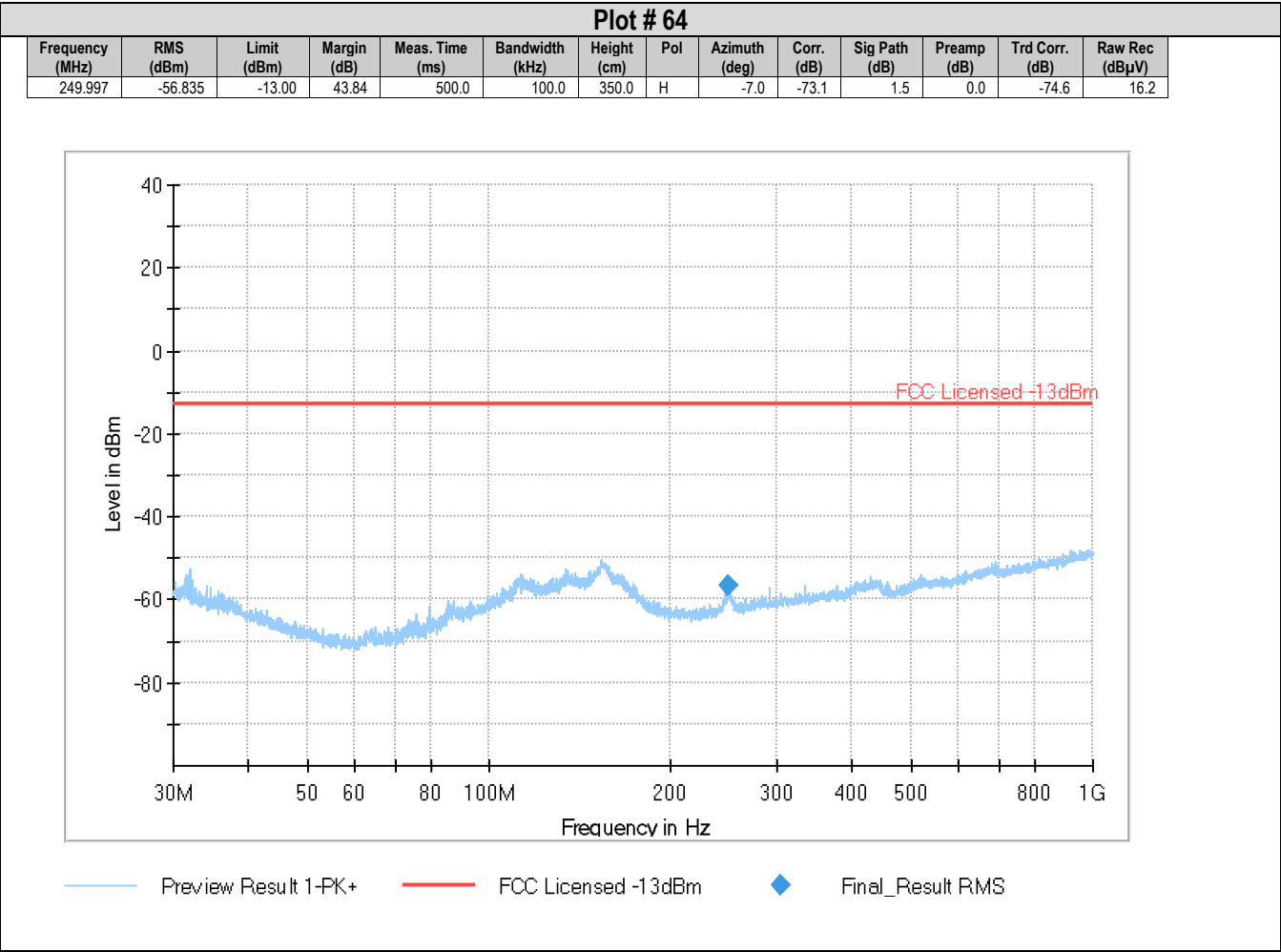
Plot # 63



— RMS_MAXH	— PK+_MAXH	* Critical_Freqs RMS
* Critical_Freqs PK+	— FCC Licensed -25dBm	◆ Final_Result PK+
◆ Final_Result RMS		



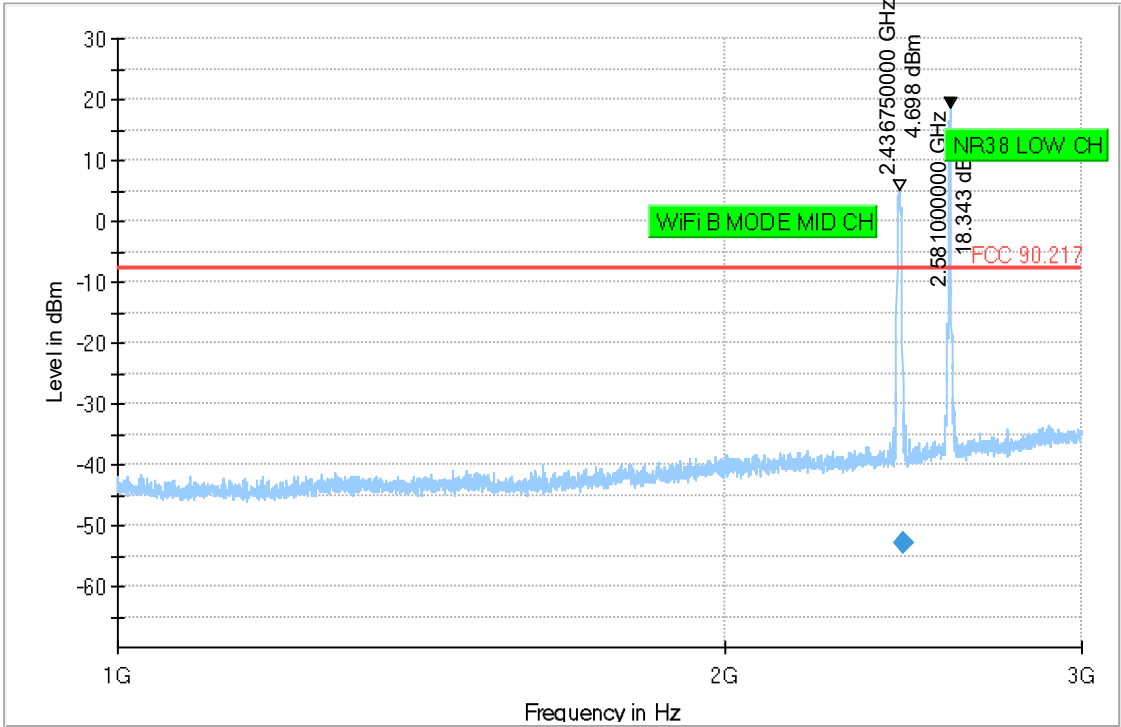
8.1.5.7 NR38





Plot # 65

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2450.500	-52.993	-7.78	45.21	500.0	1000.0	160.0	V	67.0	-61.6	5.5	0.0	-67.0	8.6

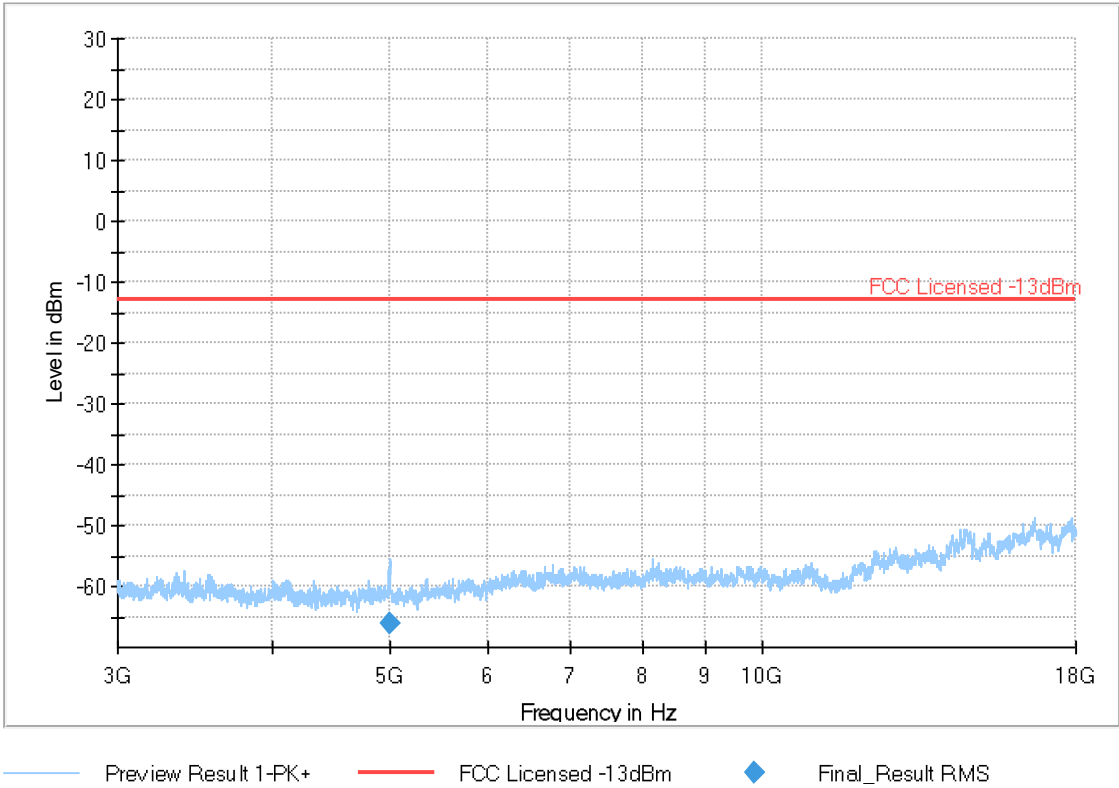


Preview Result 1-PK+ FCC 90.217 Final_Result RMS



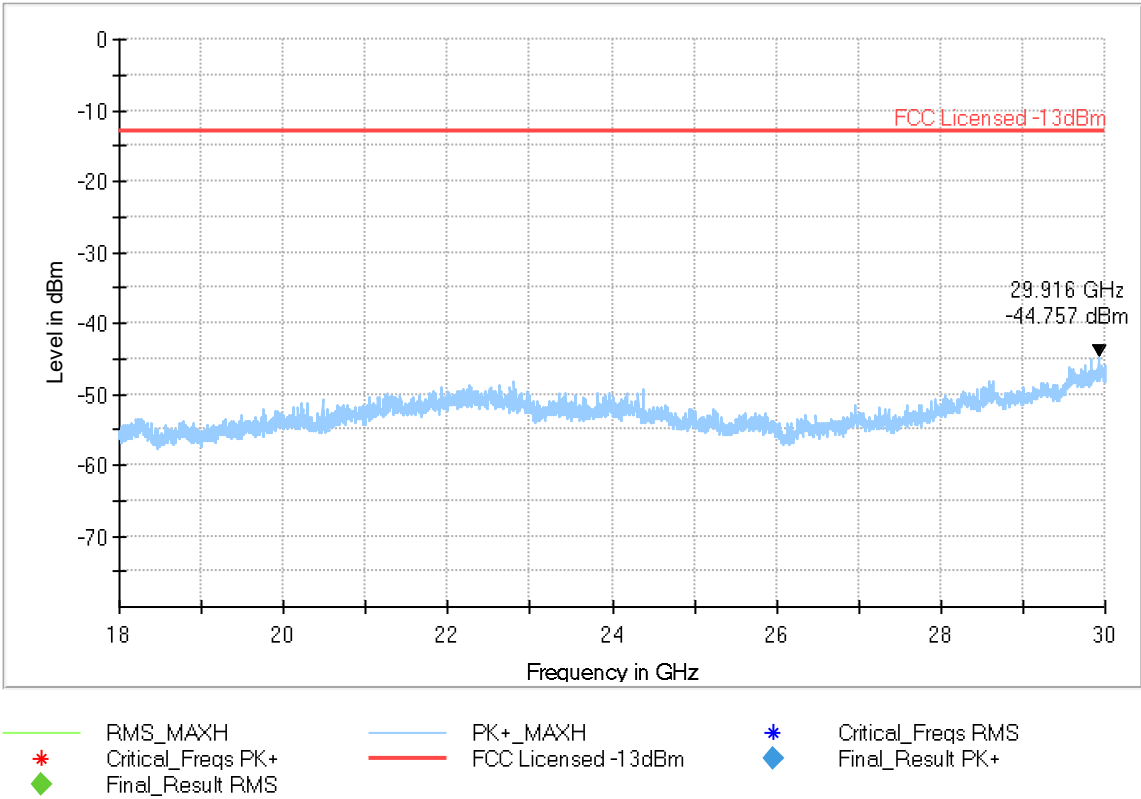
Plot # 66

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
4988.700	-66.029	-13.00	53.03	500.0	1000.0	107.0	H	267.0	-99.9	7.0	-45.8	-61.1	33.8





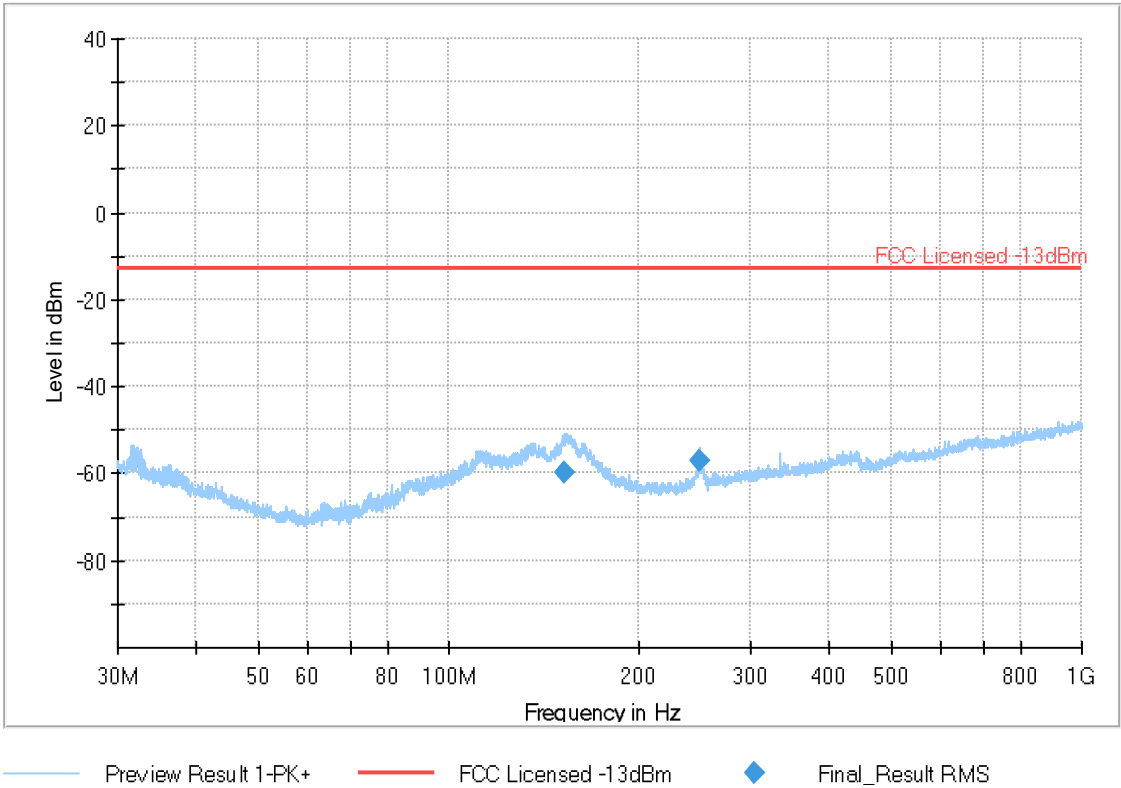
Plot # 67





Plot # 68

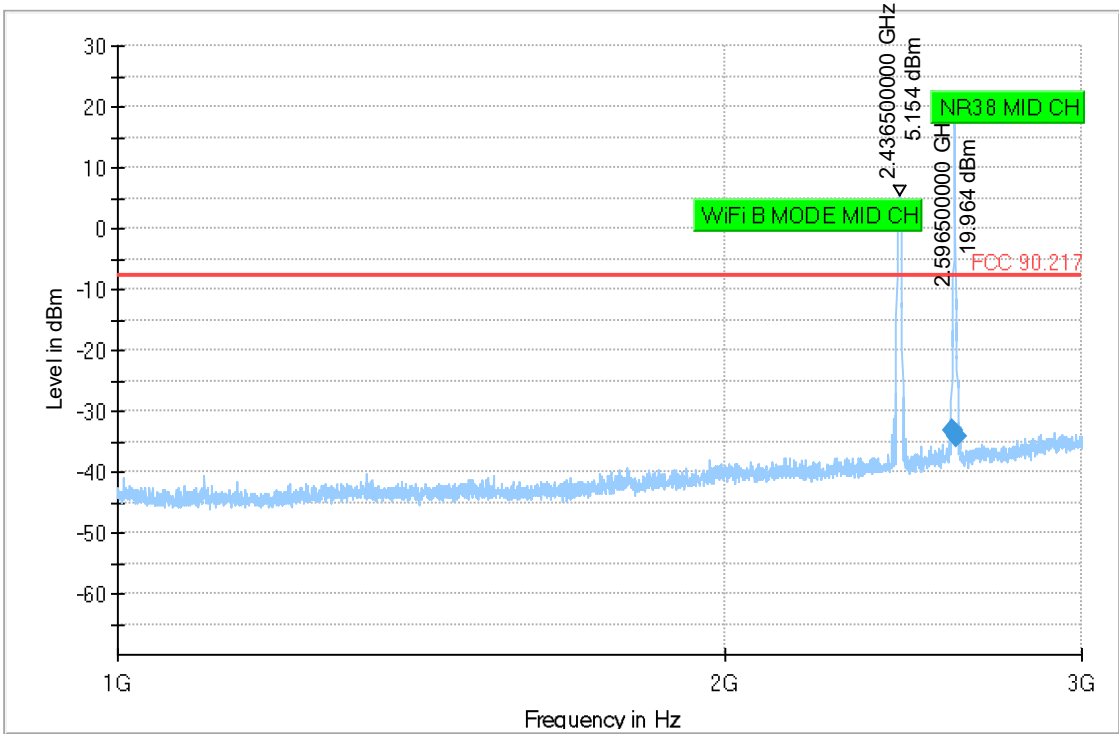
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
152.632	-59.626	-13.00	46.63	500.0	100.0	160.0	H	155.0	-71.3	1.2	0.0	-72.5	11.7
249.997	-57.046	-13.00	44.05	500.0	100.0	316.0	H	-8.0	-73.1	1.5	0.0	-74.6	16.0





Plot # 69

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2588.250	-33.081	-7.78	25.30	500.0	1000.0	152.0	V	101.0	-60.8	5.7	0.0	-66.6	27.8
2601.250	-34.169	-7.78	26.39	500.0	1000.0	151.0	V	224.0	-60.8	5.8	0.0	-66.5	26.6

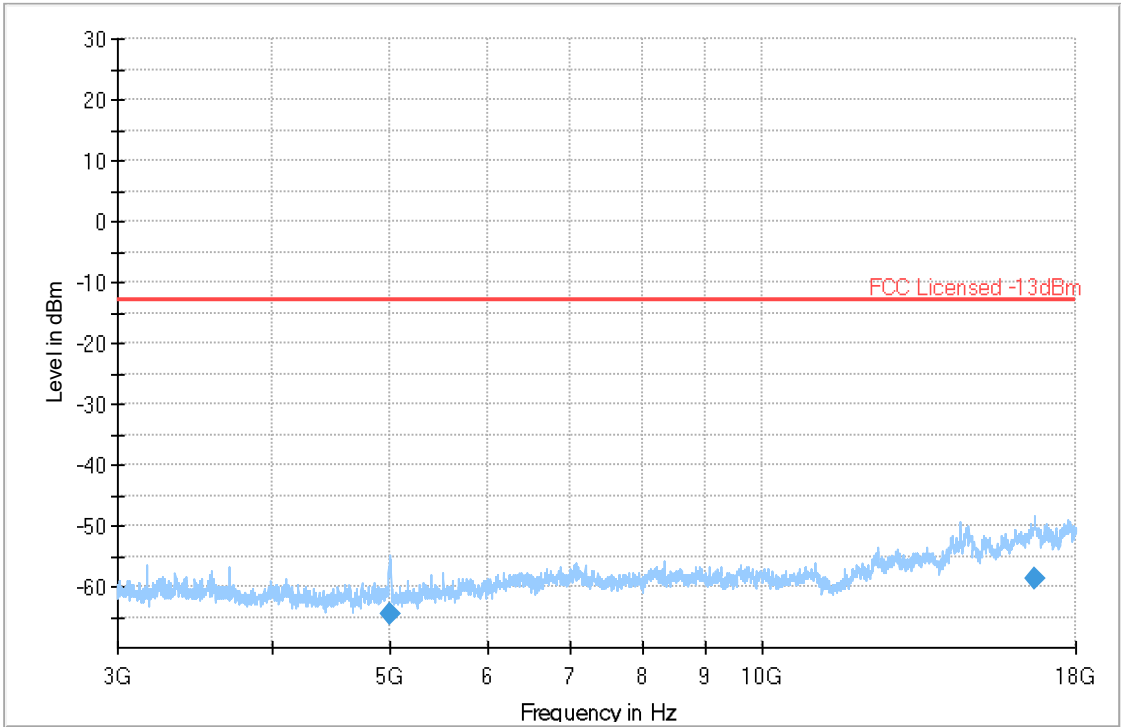


Preview Result 1-PK+ FCC 90.217 Final_Result RMS



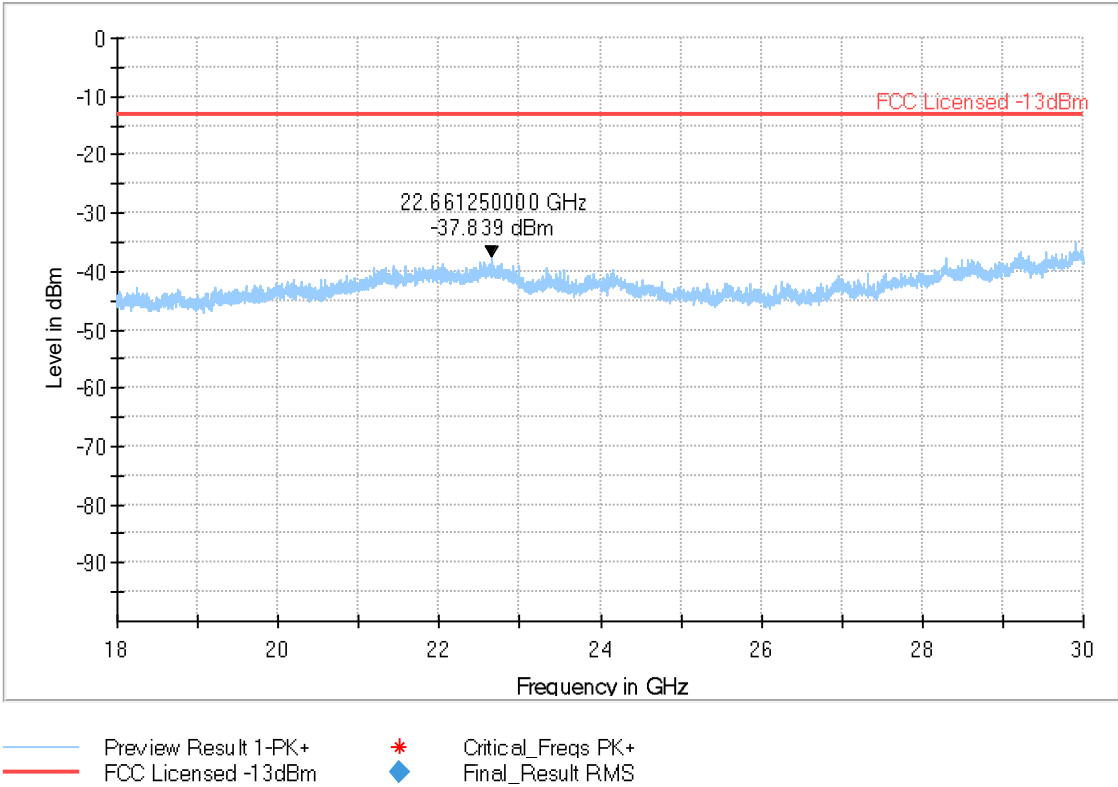
Plot # 70

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
4990.166	-64.587	-13.00	51.59	500.0	1000.0	117.0	H	273.0	-99.9	7.0	-45.8	-61.1	35.3
16664.576	-58.858	-13.00	45.86	500.0	1000.0	125.0	V	188.0	-81.2	15.2	-42.3	-54.0	22.3



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

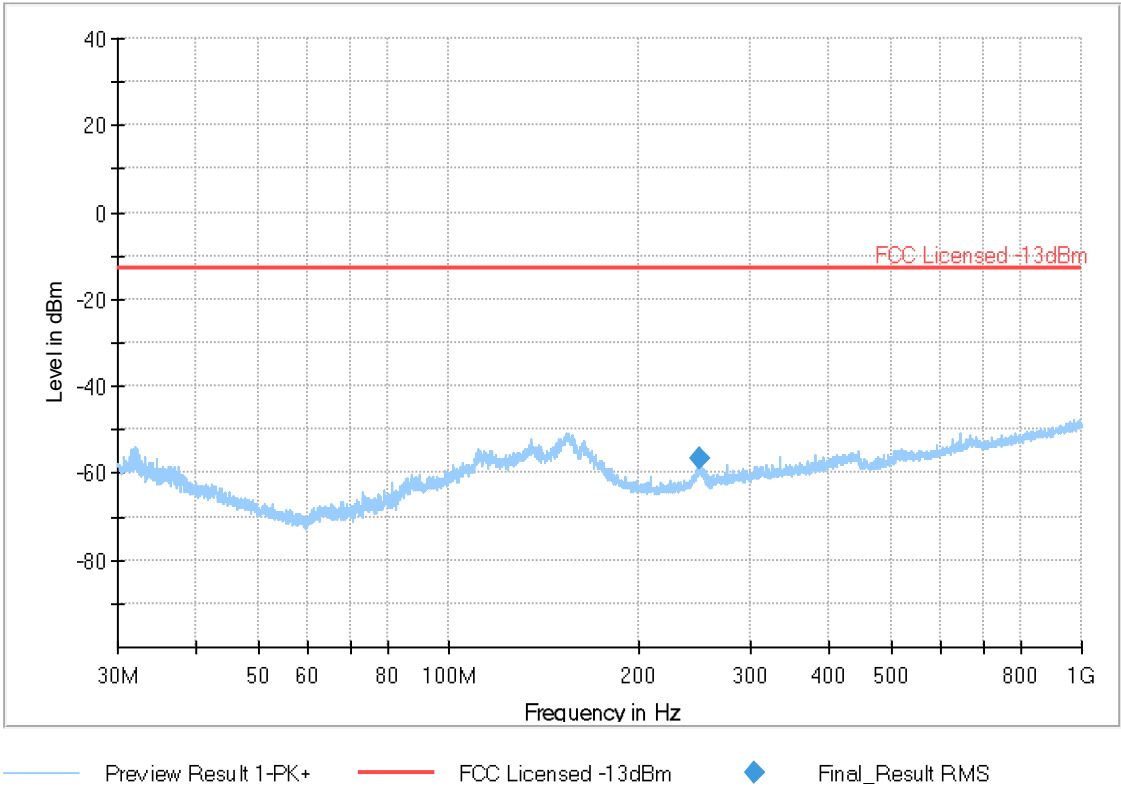
Plot # 71





Plot # 72

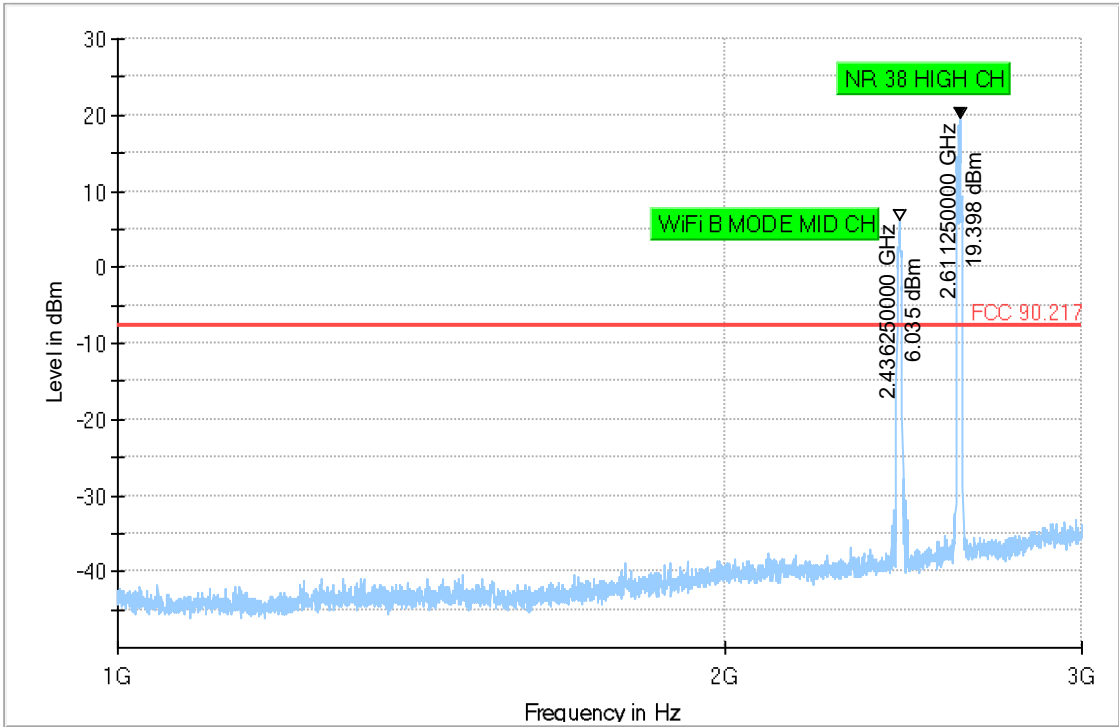
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
249.996	-56.633	-13.00	43.63	500.0	100.0	307.0	H	348.0	-73.1	1.5	0.0	-74.6	16.4





Plot # 73

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2449.750	-52.214	-7.78	44.43	500.0	1000.0	149.0	V	65.0	-61.6	5.5	0.0	-67.1	9.4
2599.250	-50.578	-7.78	42.80	500.0	1000.0	150.0	V	229.0	-60.8	5.8	0.0	-66.5	10.2

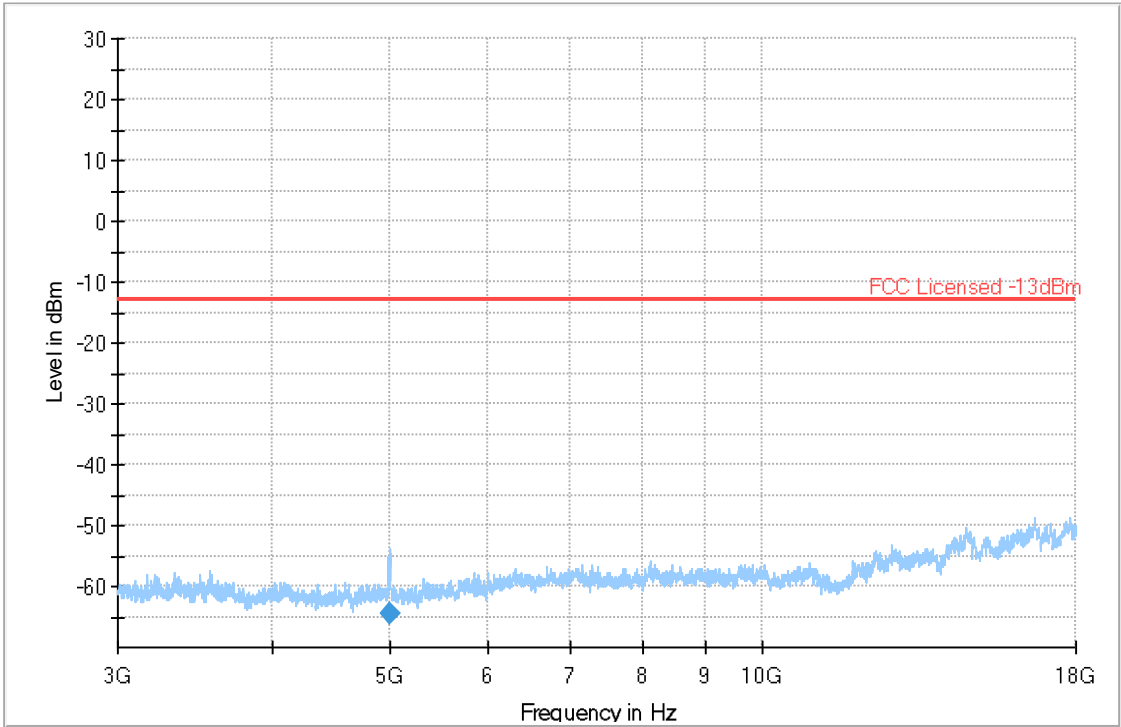


Preview Result 1-PK+ FCC 90.217 Final_Result RMS



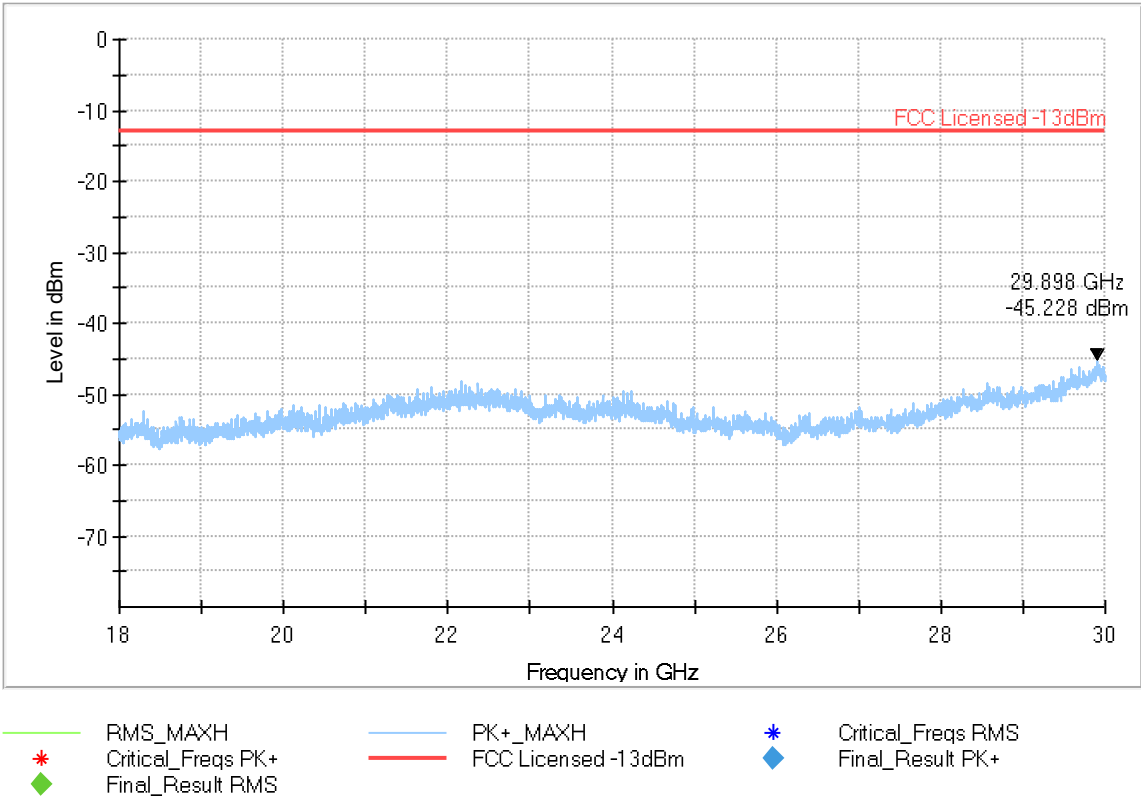
Plot # 74

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
4999.469	-64.390	-13.00	51.39	500.0	1000.0	128.0	H	275.0	-99.8	7.1	-45.8	-61.1	35.4



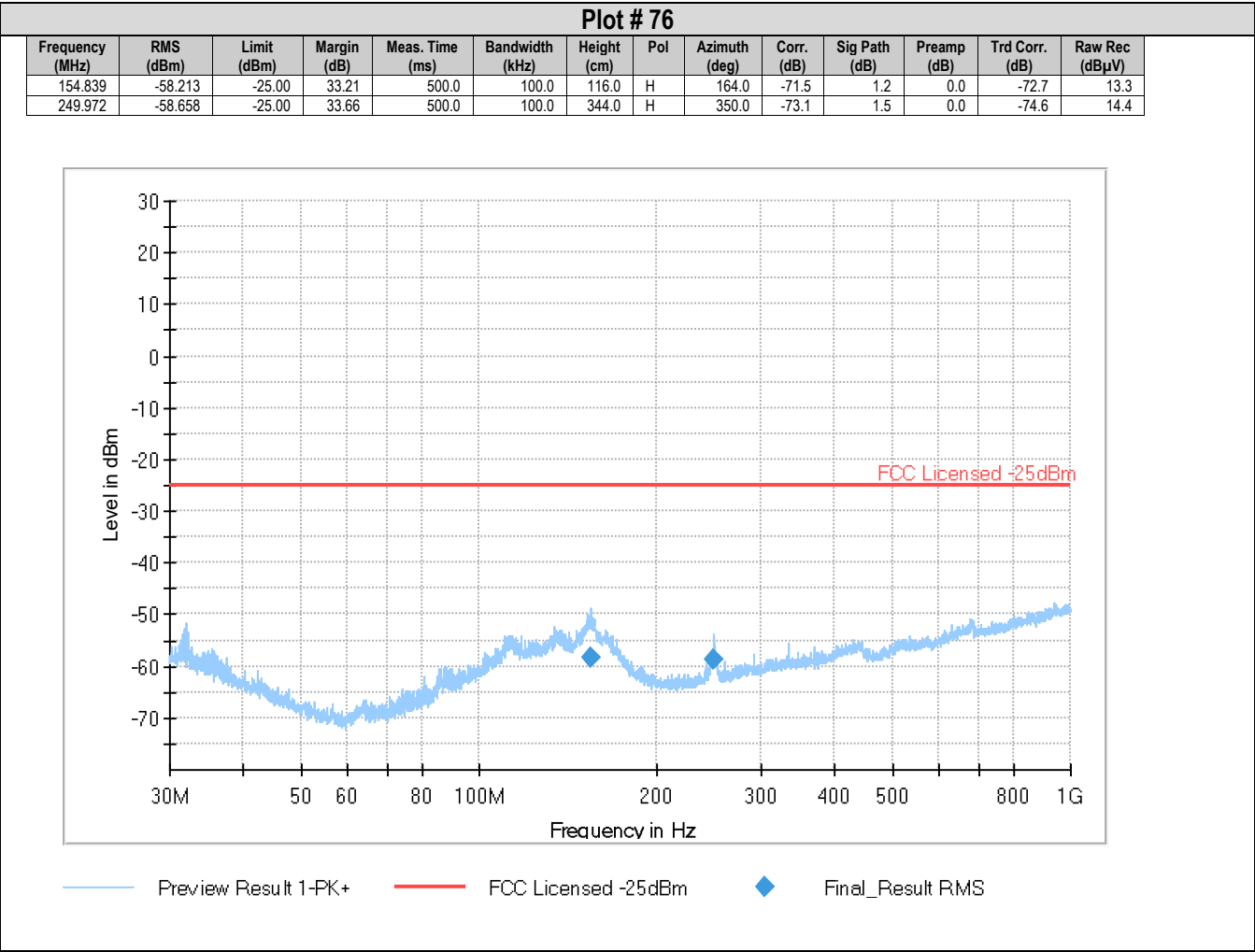
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS

Plot # 75



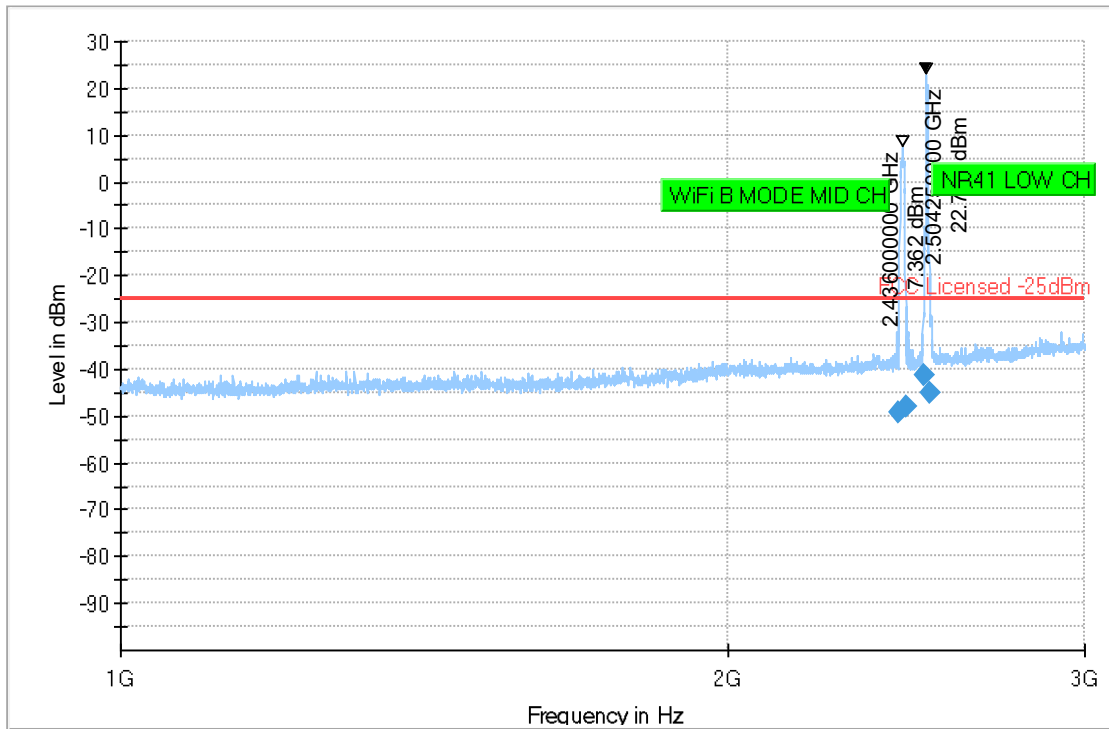


8.1.5.8 NR41



Plot # 77

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2425.750	-49.191	-25.00	24.19	500.0	1000.0	100.0	V	20.0	-61.7	5.4	0.0	-67.1	12.5
2447.500	-47.882	-25.00	22.88	500.0	1000.0	151.0	V	321.0	-61.6	5.5	0.0	-67.1	13.7
2495.750	-41.260	-25.00	16.26	500.0	1000.0	153.0	V	90.0	-61.5	5.3	0.0	-66.9	20.3
2517.500	-45.177	-25.00	20.18	500.0	1000.0	133.0	V	107.0	-61.4	5.4	0.0	-66.8	16.2



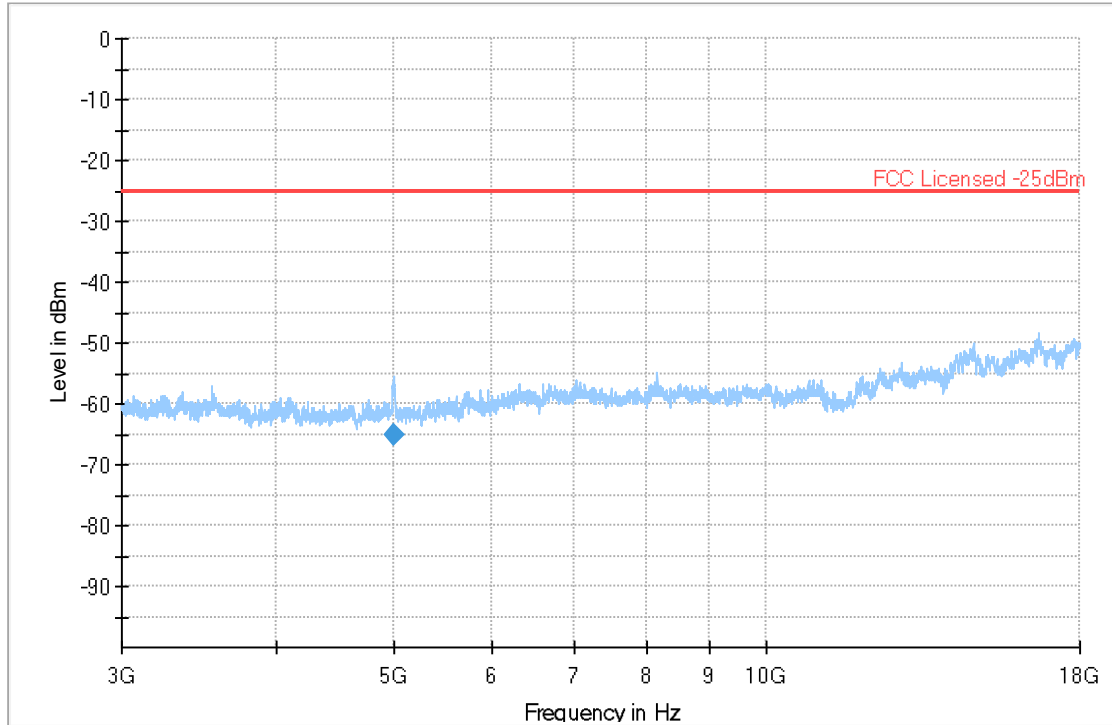
Preview Result 1-PK+

FCC Licensed -25dBm

◆ Final_Result RMS

Plot # 78

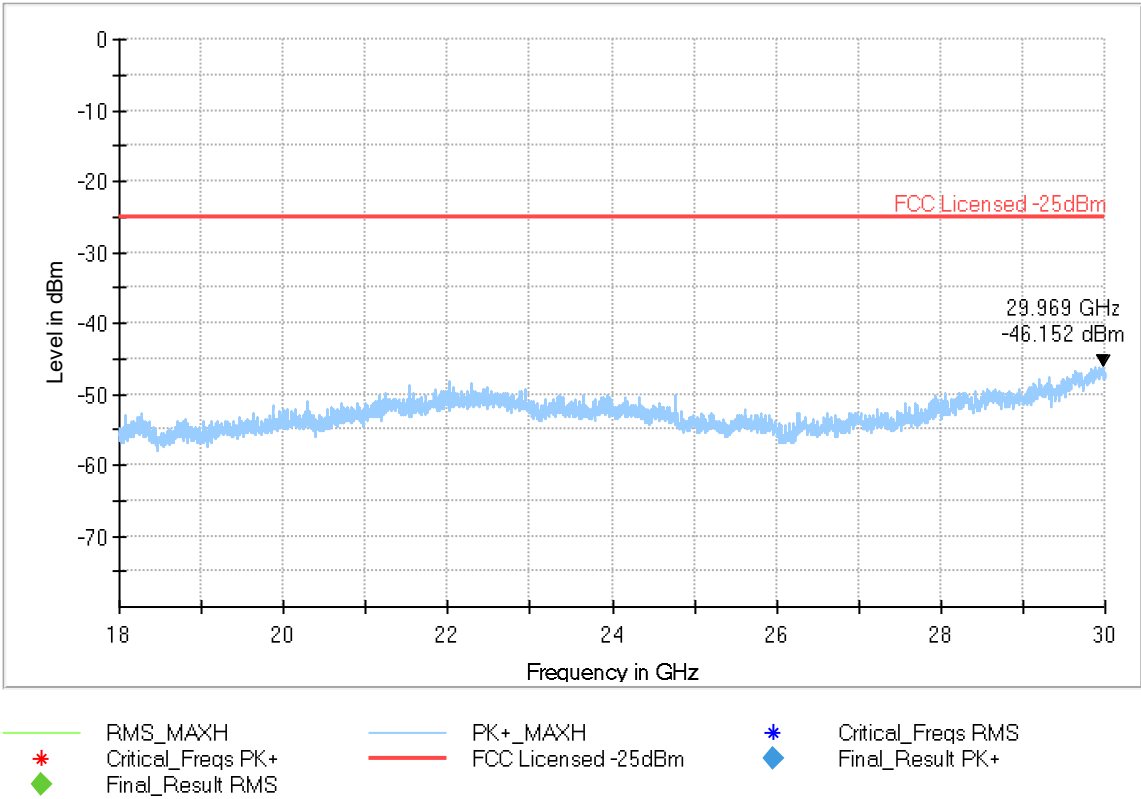
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
4984.219	-65.154	-25.00	40.15	500.0	1000.0	168.0	H	276.0	-99.9	6.9	-45.8	-61.1	34.7



— Preview Result 1-PK+ — FCC Licensed -25dBm ◆ Final_Result RMS



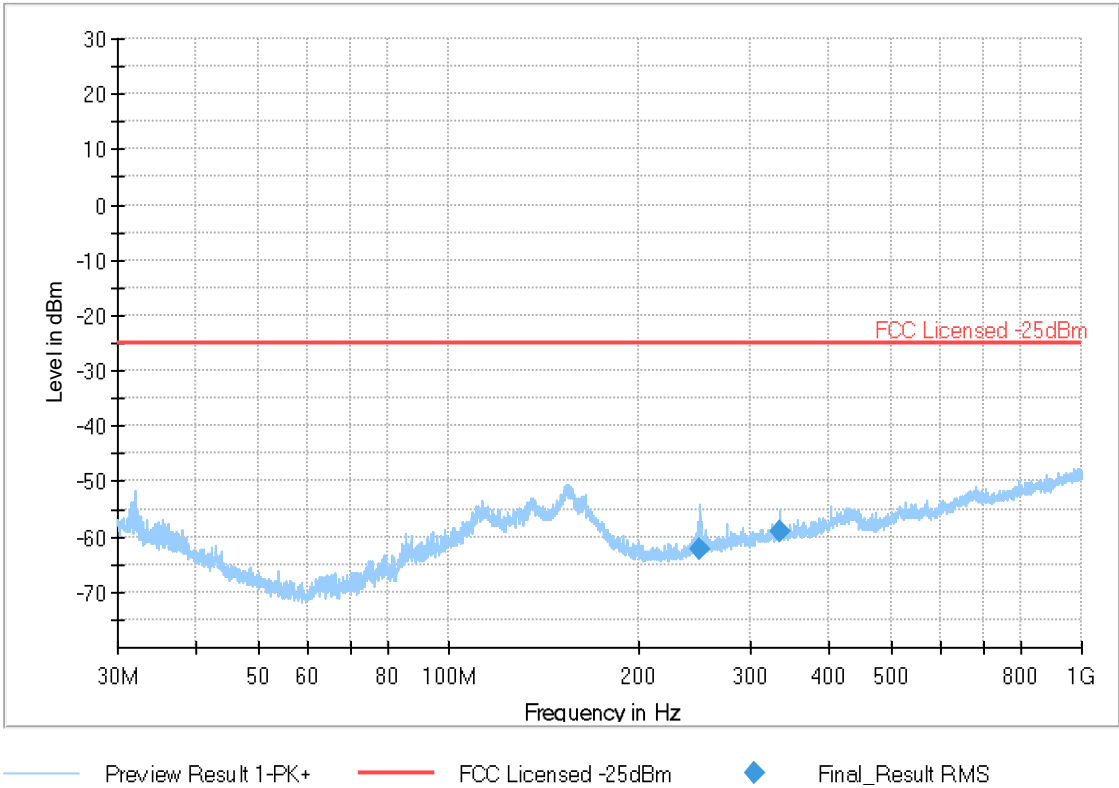
Plot # 79





Plot # 80

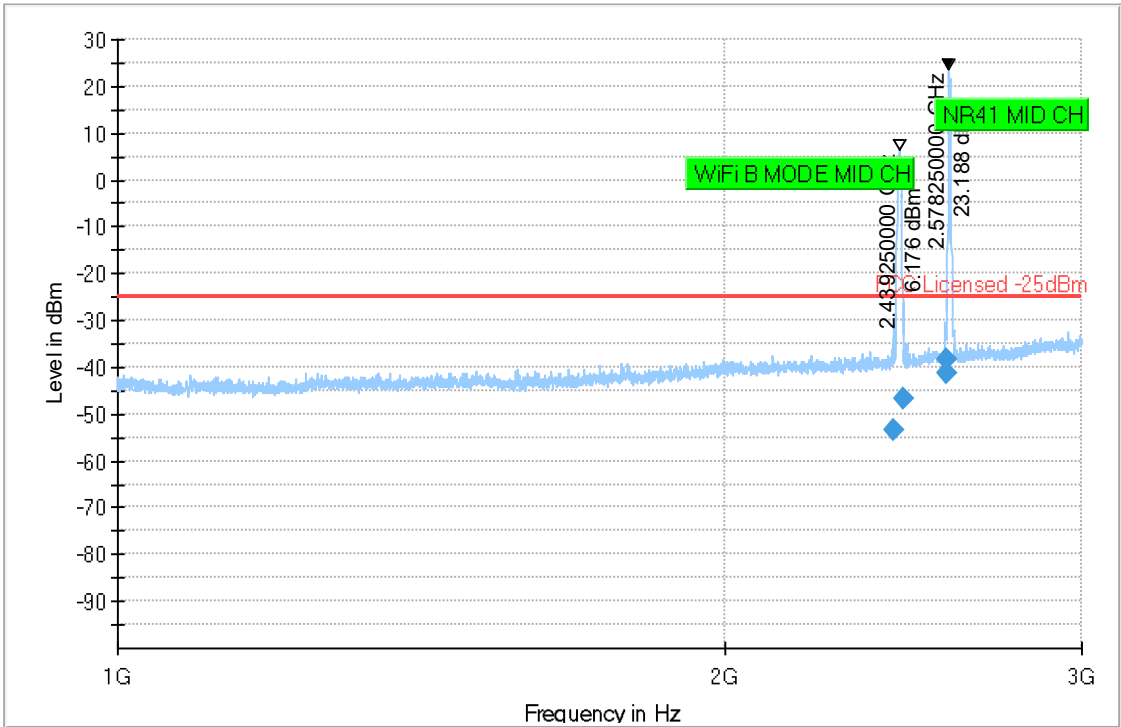
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
249.972	-62.205	-25.00	37.20	500.0	100.0	309.0	H	317.0	-73.1	1.5	0.0	-74.6	10.9
333.343	-59.112	-25.00	34.11	500.0	100.0	283.0	H	168.0	-74.8	1.7	0.0	-76.5	15.6





Plot # 81

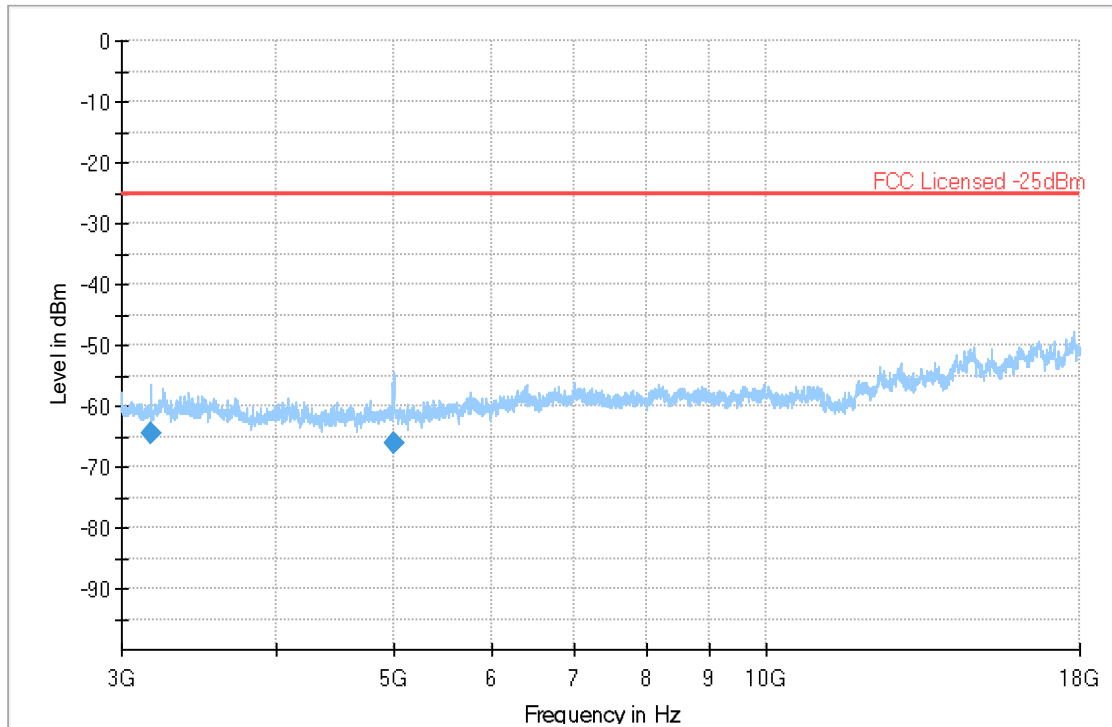
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2422.500	-53.519	-25.00	28.52	500.0	1000.0	133.0	V	24.0	-61.8	5.4	0.0	-67.1	8.2
2447.250	-46.620	-25.00	21.62	500.0	1000.0	117.0	V	27.0	-61.6	5.5	0.0	-67.1	15.0
2569.750	-41.281	-25.00	16.28	500.0	1000.0	167.0	V	89.0	-61.0	5.7	0.0	-66.6	19.7
2571.500	-38.330	-25.00	13.33	500.0	1000.0	134.0	V	226.0	-60.9	5.7	0.0	-66.6	22.6



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

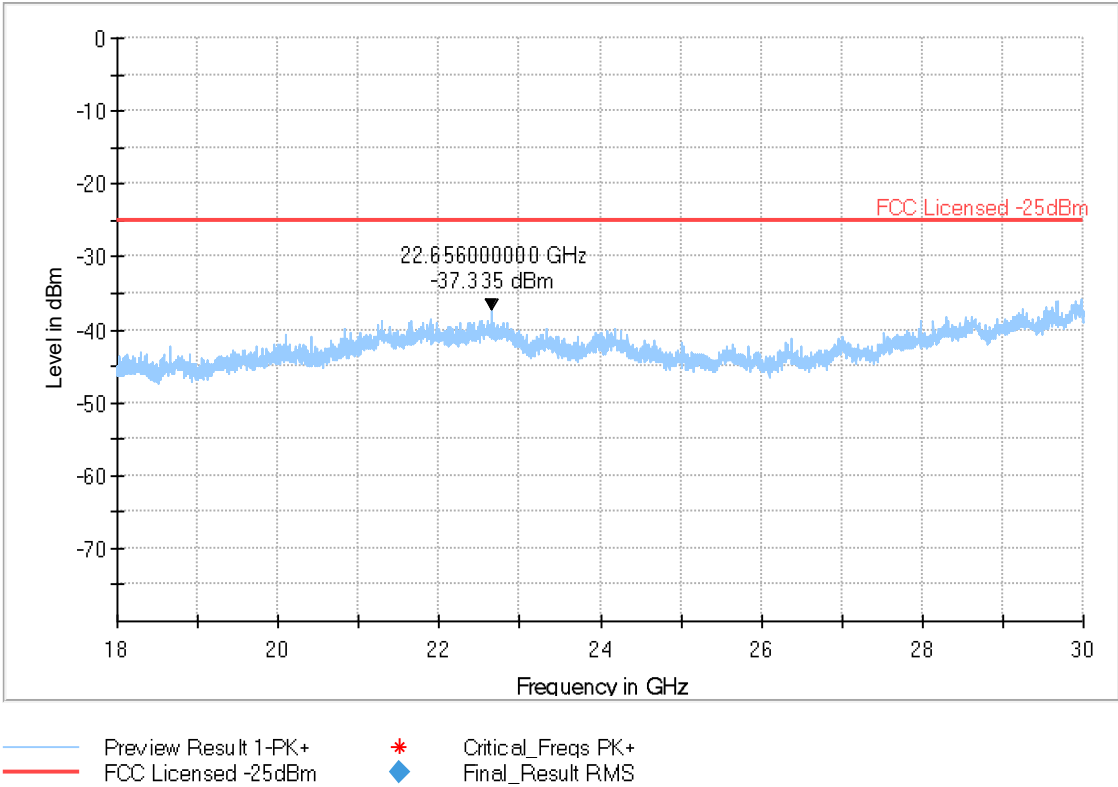
Plot # 82

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3167.813	-64.438	-25.00	39.44	500.0	1000.0	127.0	H	36.0	-	5.5	-46.0	-62.6	38.6
4996.406	-66.105	-25.00	41.10	500.0	1000.0	107.0	H	274.0	-99.8	7.1	-45.8	-61.1	33.7



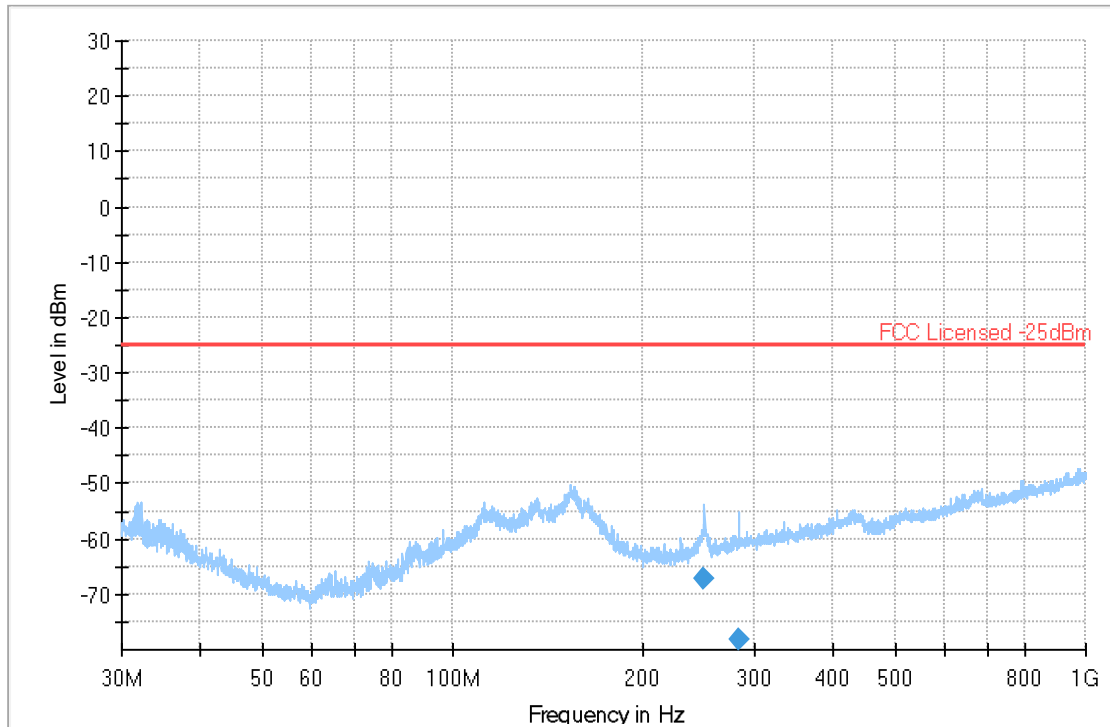
— Preview Result 1-PK+ — FCC Licensed -25dBm ◆ Final_Result RMS

Plot # 83



Plot # 84

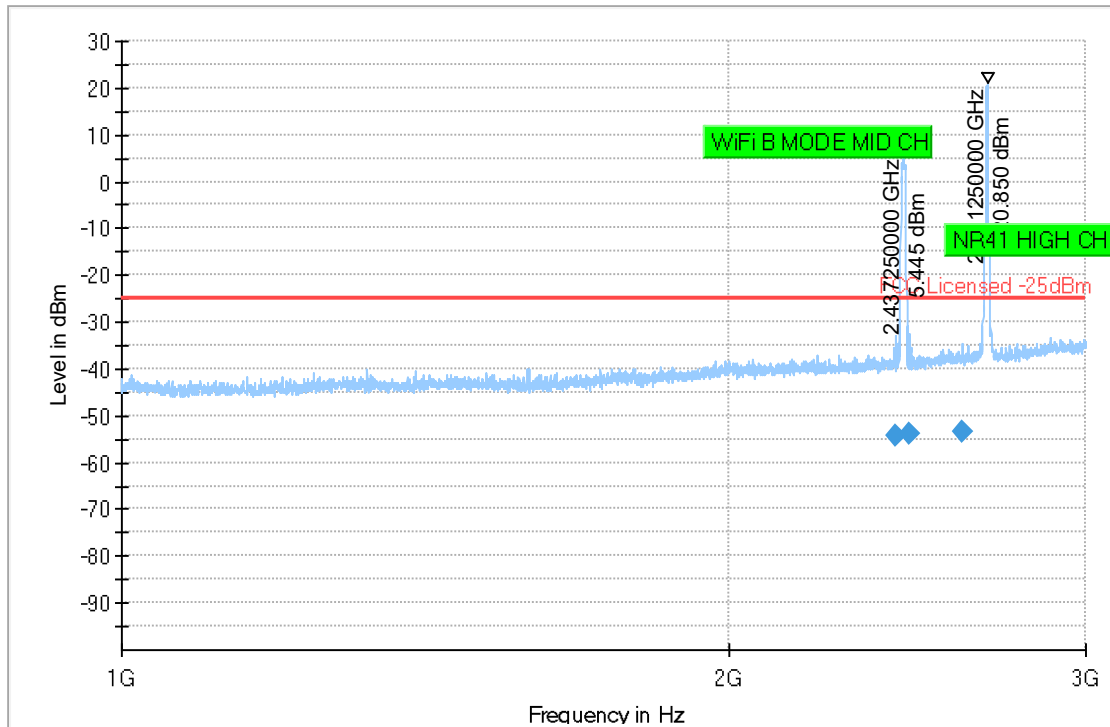
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
249.948	-67.097	-25.00	42.10	500.0	100.0	243.0	H	-32.0	-73.1	1.5	0.0	-74.6	6.0
283.679	-78.343	-25.00	53.34	500.0	100.0	203.0	H	-20.0	-76.1	1.5	0.0	-77.7	-2.2



— Preview Result 1-PK+ — FCC Licensed -25dBm ◆ Final_Result RMS

Plot # 85

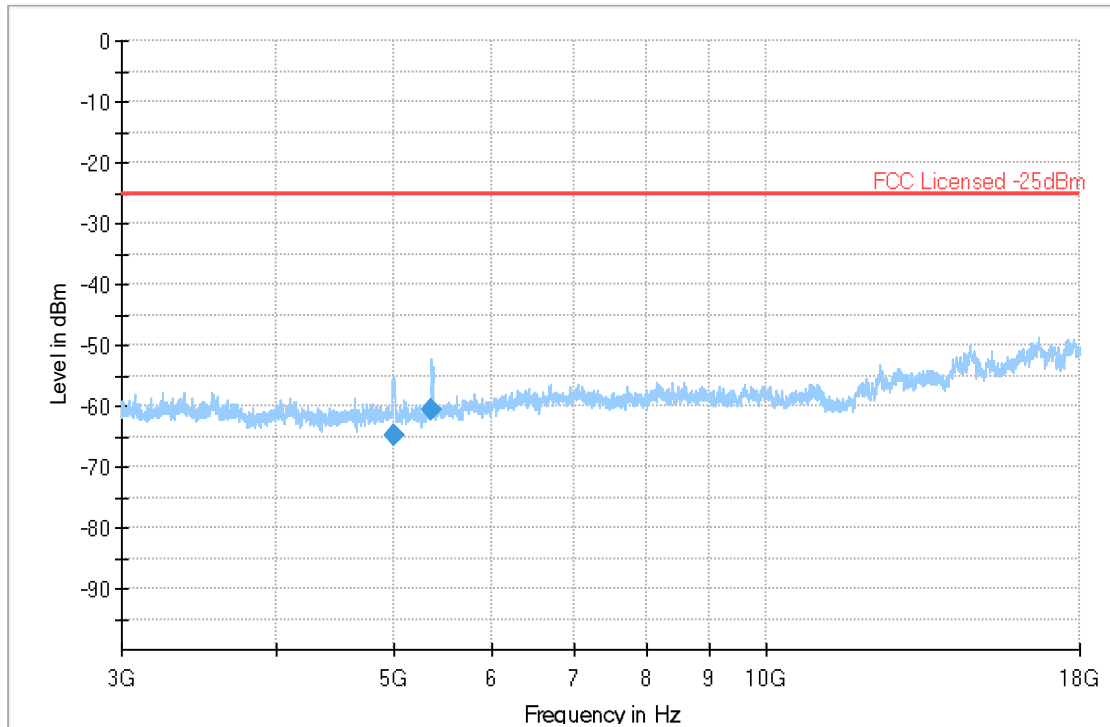
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2414.250	-54.382	-25.00	29.38	500.0	1000.0	117.0	V	27.0	-61.8	5.4	0.0	-67.2	7.4
2452.750	-53.742	-25.00	28.74	500.0	1000.0	142.0	V	49.0	-61.6	5.5	0.0	-67.0	7.8
2605.500	-53.536	-25.00	28.54	500.0	1000.0	315.0	H	98.0	-60.8	5.8	0.0	-66.6	7.3



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

Plot # 86

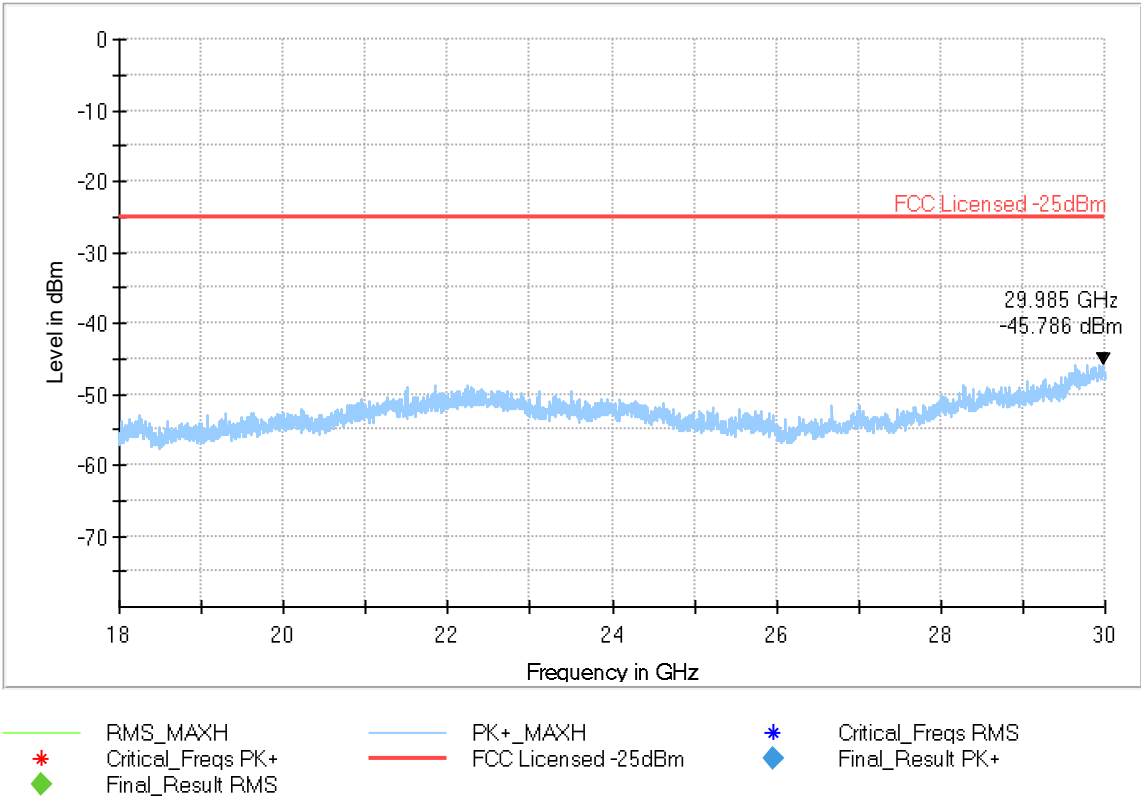
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
4986.563	-64.832	-25.00	39.83	500.0	1000.0	134.0	H	274.0	-99.9	7.0	-45.8	-61.1	35.0
5355.000	-60.622	-25.00	35.62	500.0	1000.0	145.0	V	82.0	-98.5	7.4	-45.4	-60.6	37.9



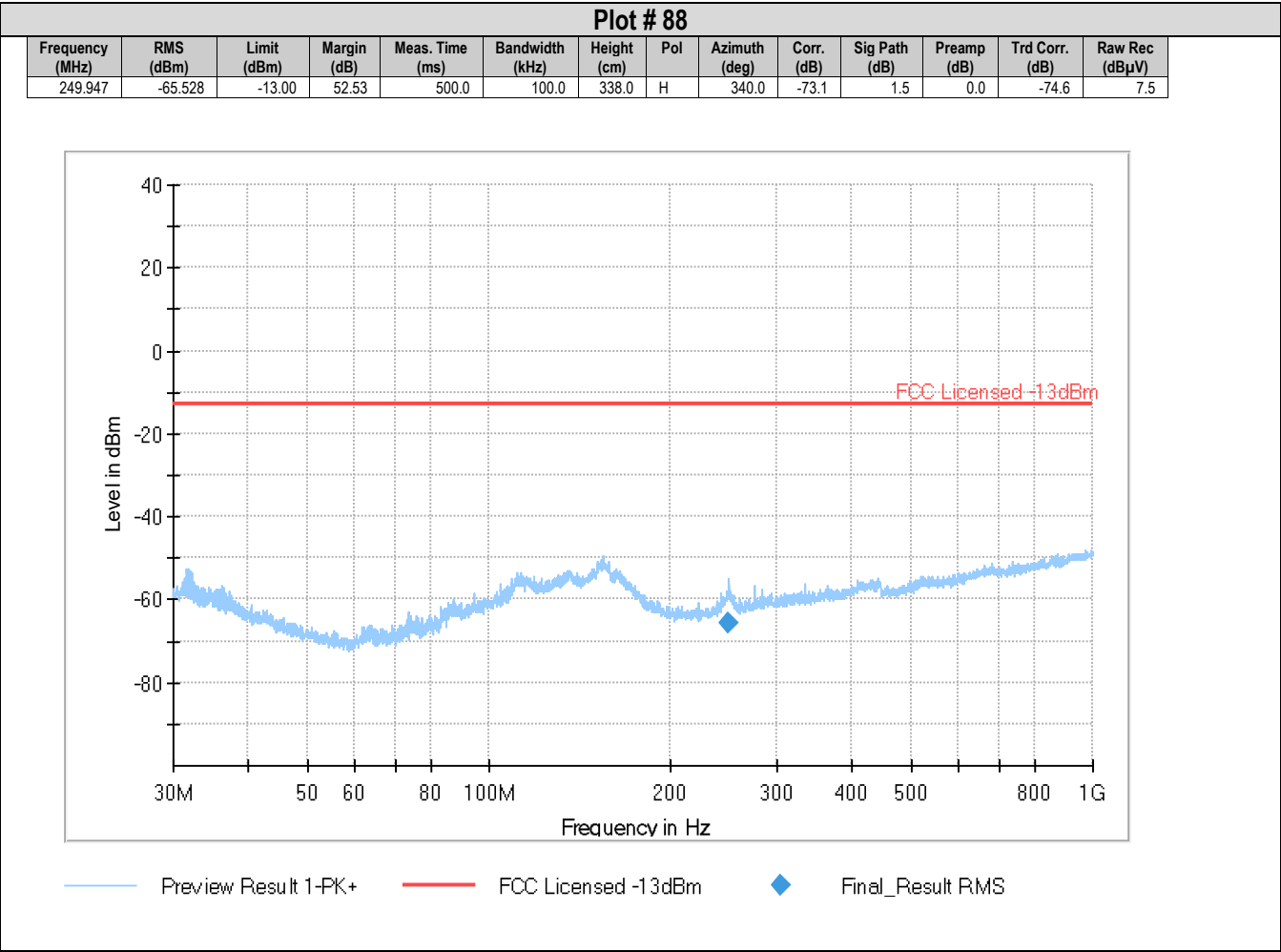
Preview Result 1-PK+ FCC Licensed -25dBm Final_Result RMS



Plot # 87

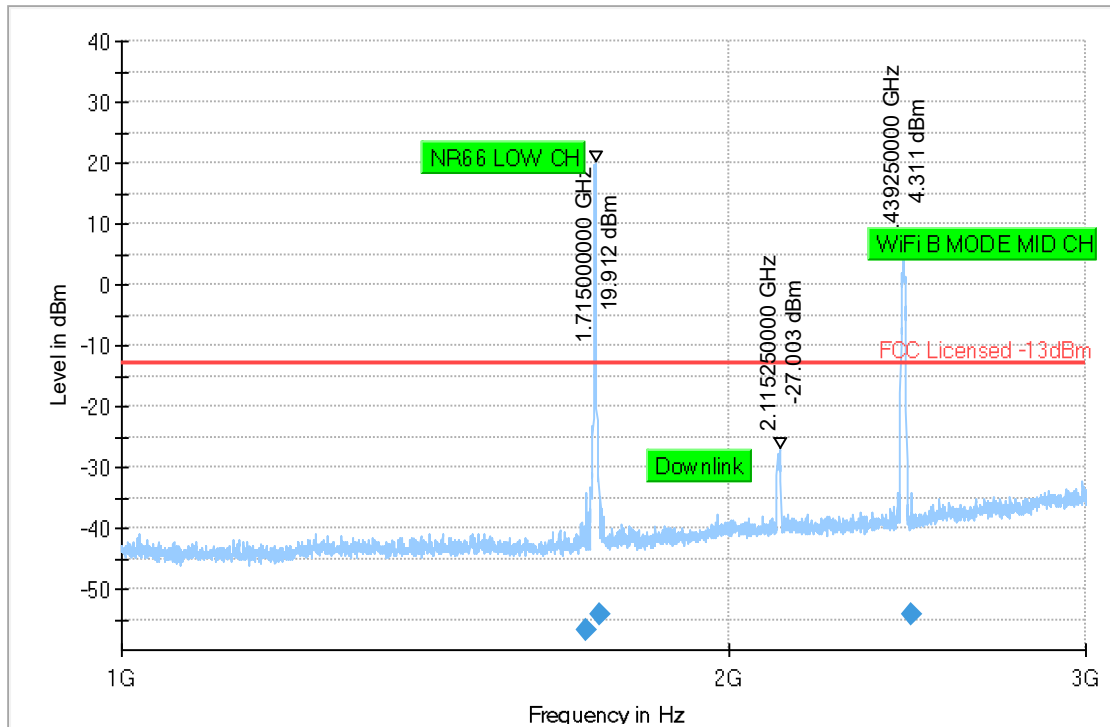


8.1.5.9 NR66



Plot # 89

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preampl (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1698.601	-56.804	-13.00	43.80	500.0	1000.0	163.0	H	80.0	-64.7	4.6	0.0	-69.3	7.9
1725.750	-54.228	-13.00	41.23	500.0	1000.0	107.0	V	-6.0	-64.5	4.6	0.0	-69.1	10.2
2456.771	-54.157	-13.00	41.16	500.0	1000.0	230.0	H	103.0	-61.5	5.4	0.0	-67.0	7.4

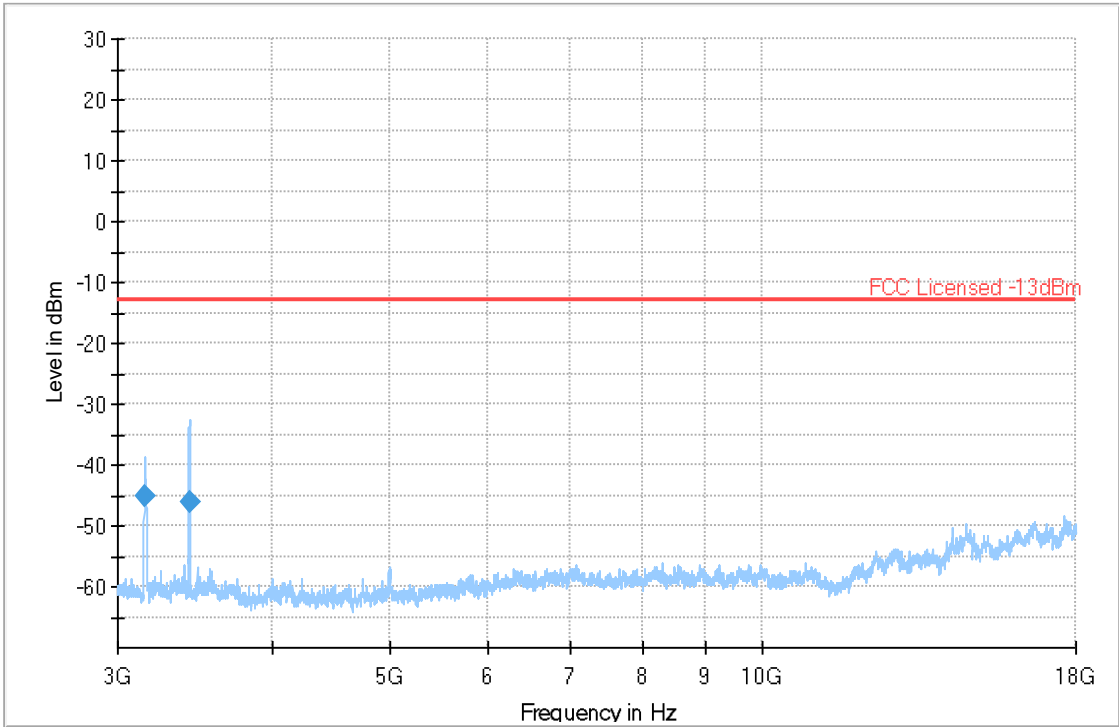


— Preview Result 1-PK+ — FCC Licensed -13dBm ◆ Final_Result RMS



Plot # 90

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3158.724	-45.243	-13.00	32.24	500.0	1000.0	198.0	V	323.0	-	5.5	-46.0	-62.6	57.8
3430.679	-46.268	-13.00	33.27	500.0	1000.0	179.0	V	335.0	-	5.8	-46.0	-62.5	56.5

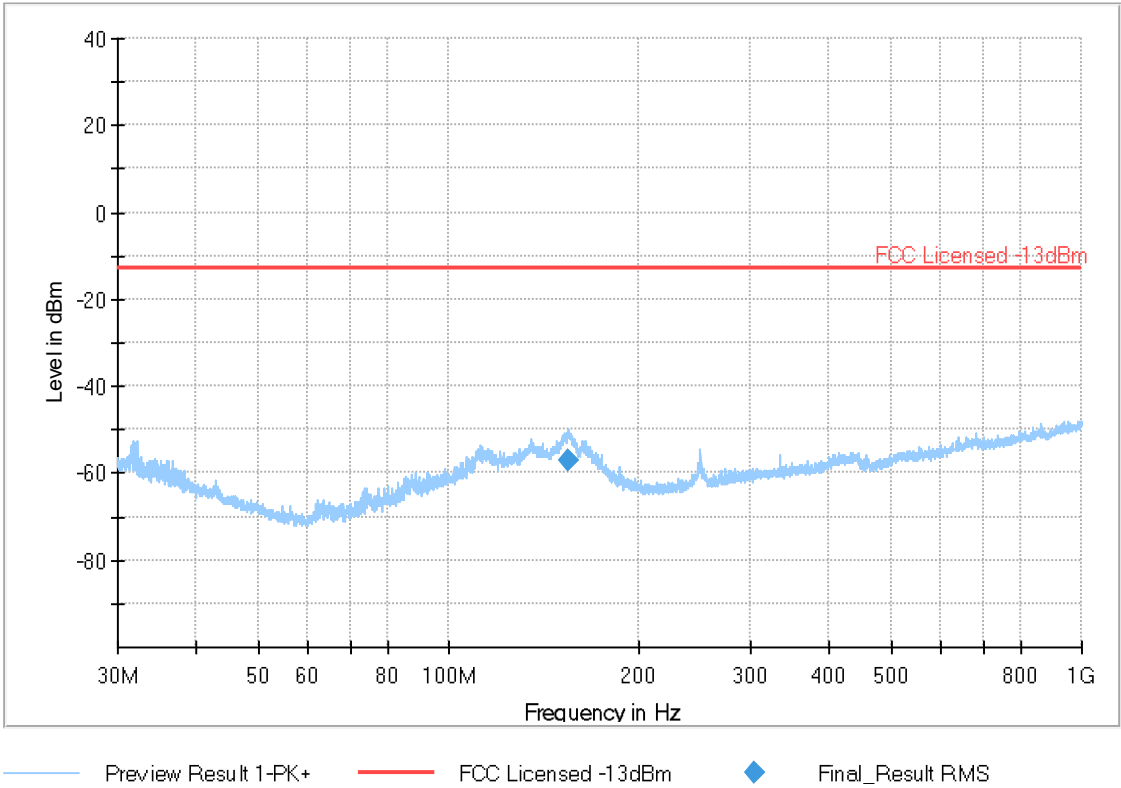


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS



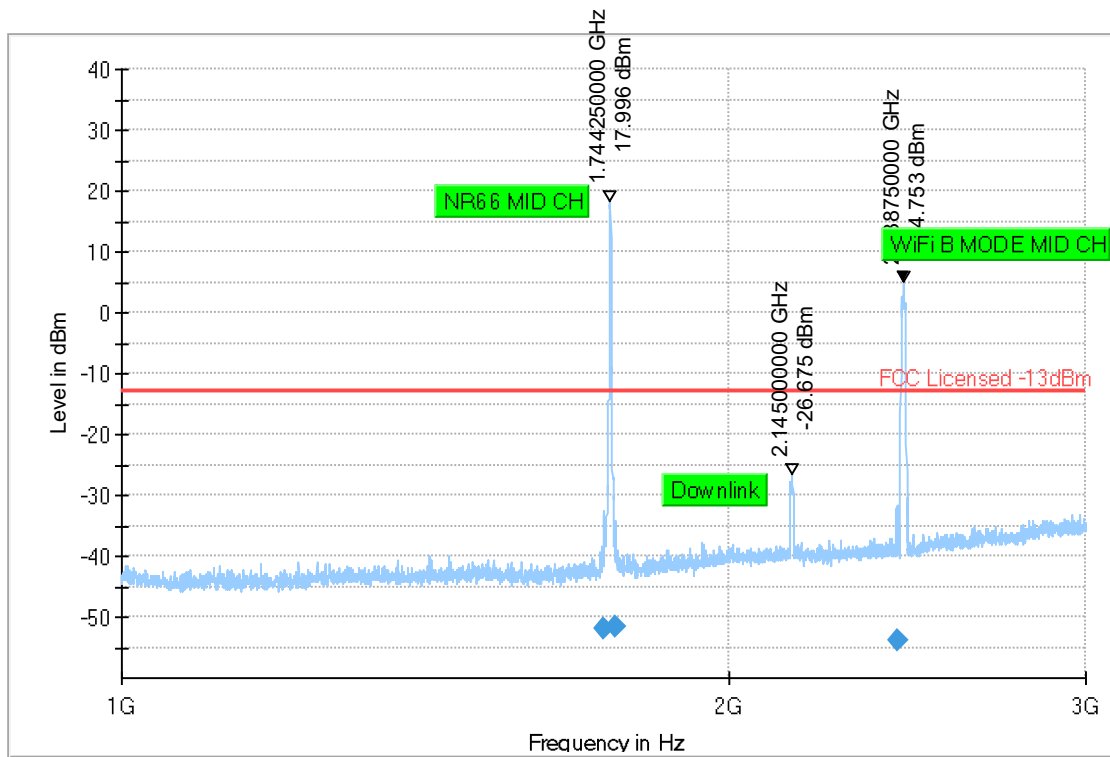
Plot # 91

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
154.669	-57.095	-13.00	44.09	500.0	100.0	125.0	H	146.0	-71.5	1.2	0.0	-72.7	14.4



Plot # 92

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1733.750	-51.915	-13.00	38.91	500.0	1000.0	193.0	H	68.0	-64.5	4.6	0.0	-69.1	12.5
1754.250	-51.684	-13.00	38.68	500.0	1000.0	178.0	H	95.0	-64.3	4.6	0.0	-68.9	12.6
2418.517	-53.802	-13.00	40.80	500.0	1000.0	233.0	H	103.0	-61.7	5.4	0.0	-67.1	7.9

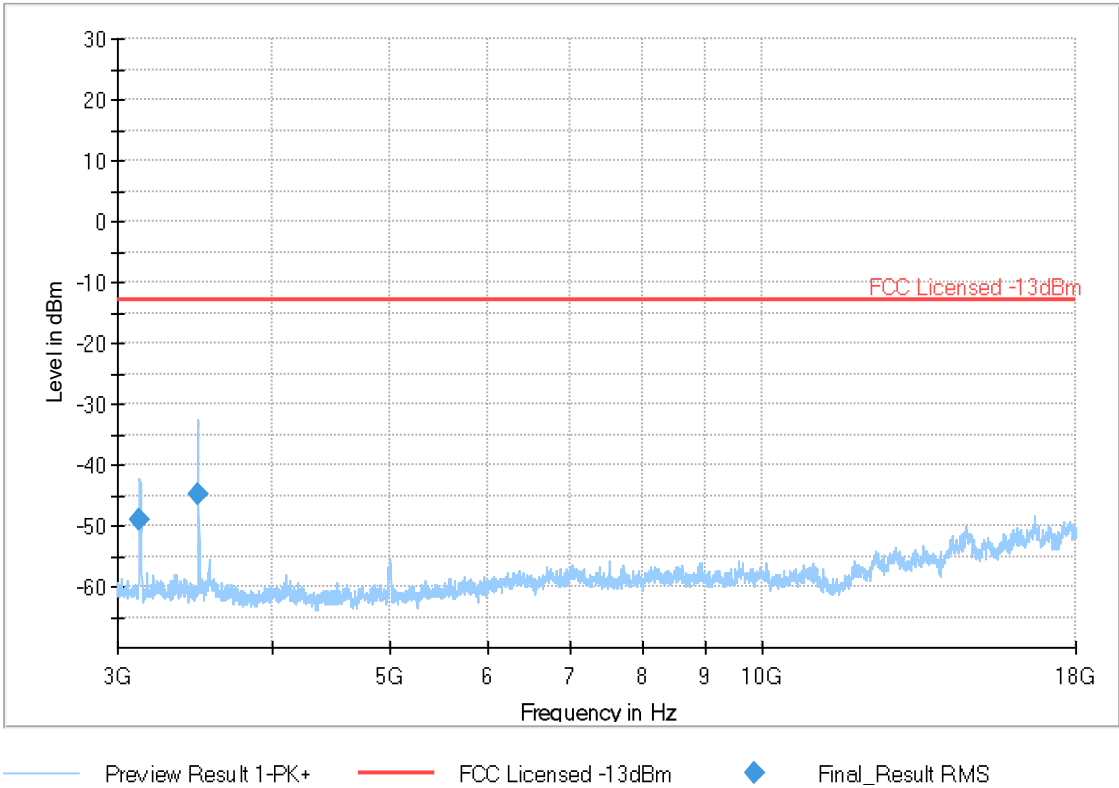


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS



Plot # 93

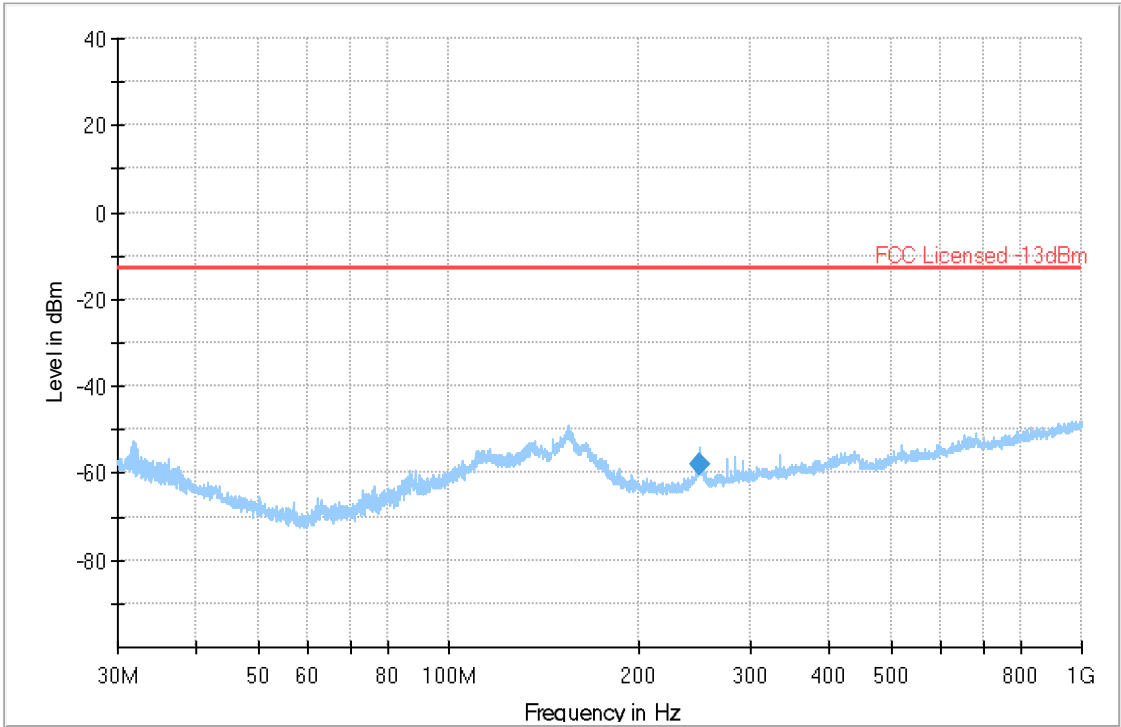
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3128.218	-48.879	-13.00	35.88	500.0	1000.0	191.0	V	319.0	-	5.5	-45.9	-62.5	54.1
3490.751	-44.700	-13.00	31.70	500.0	1000.0	165.0	V	-24.0	-	5.9	-46.1	-62.4	57.8





Plot # 94

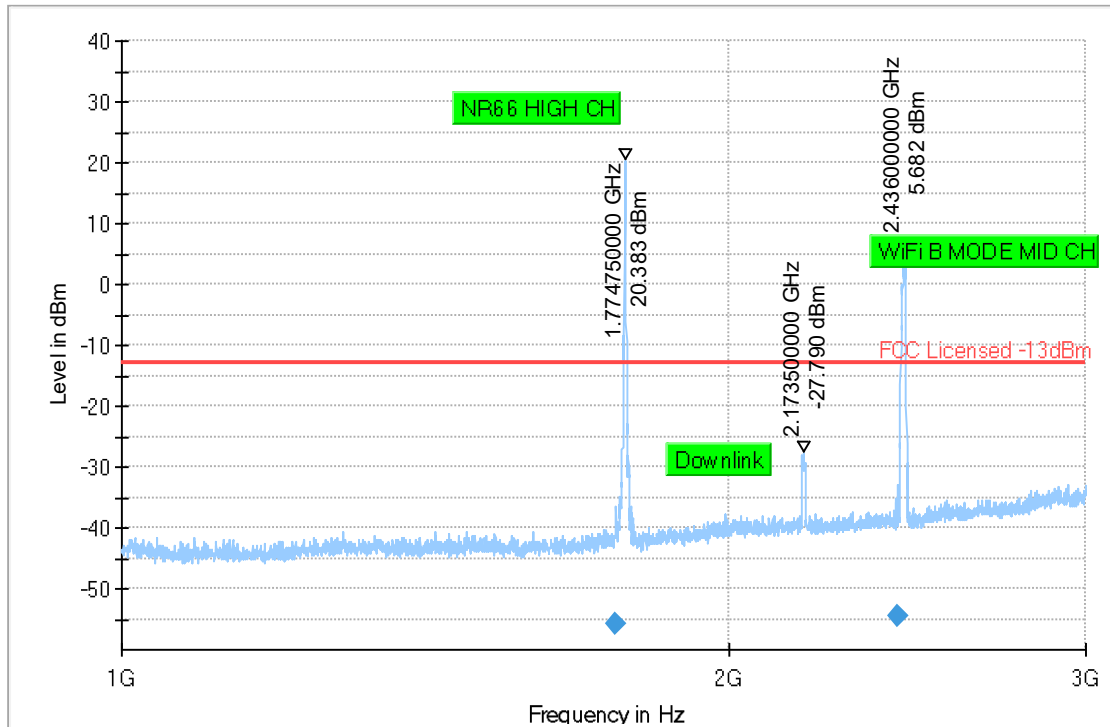
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
249.993	-57.903	-13.00	44.90	500.0	100.0	308.0	H	-14.0	-73.1	1.5	0.0	-74.6	15.2



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

Plot # 95

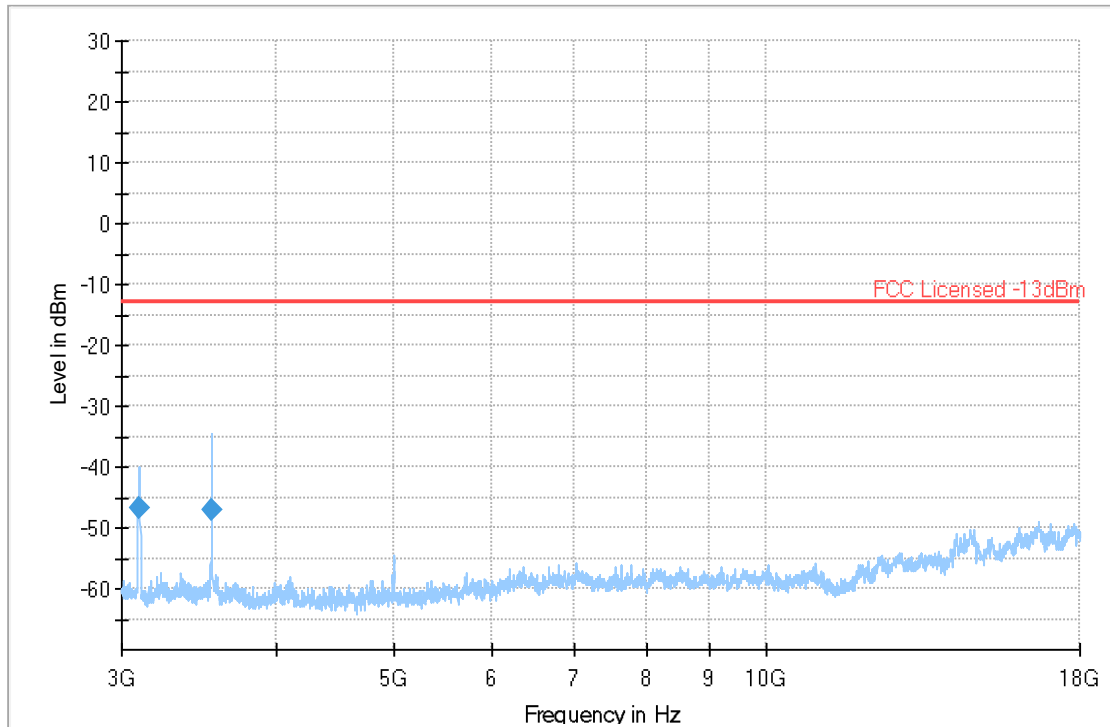
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1756.750	-55.876	-13.00	42.88	500.0	1000.0	196.0	H	69.0	-64.3	4.6	0.0	-68.9	8.4
2422.500	-54.621	-13.00	41.62	500.0	1000.0	198.0	V	36.0	-61.8	5.4	0.0	-67.1	7.1



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

Plot # 96

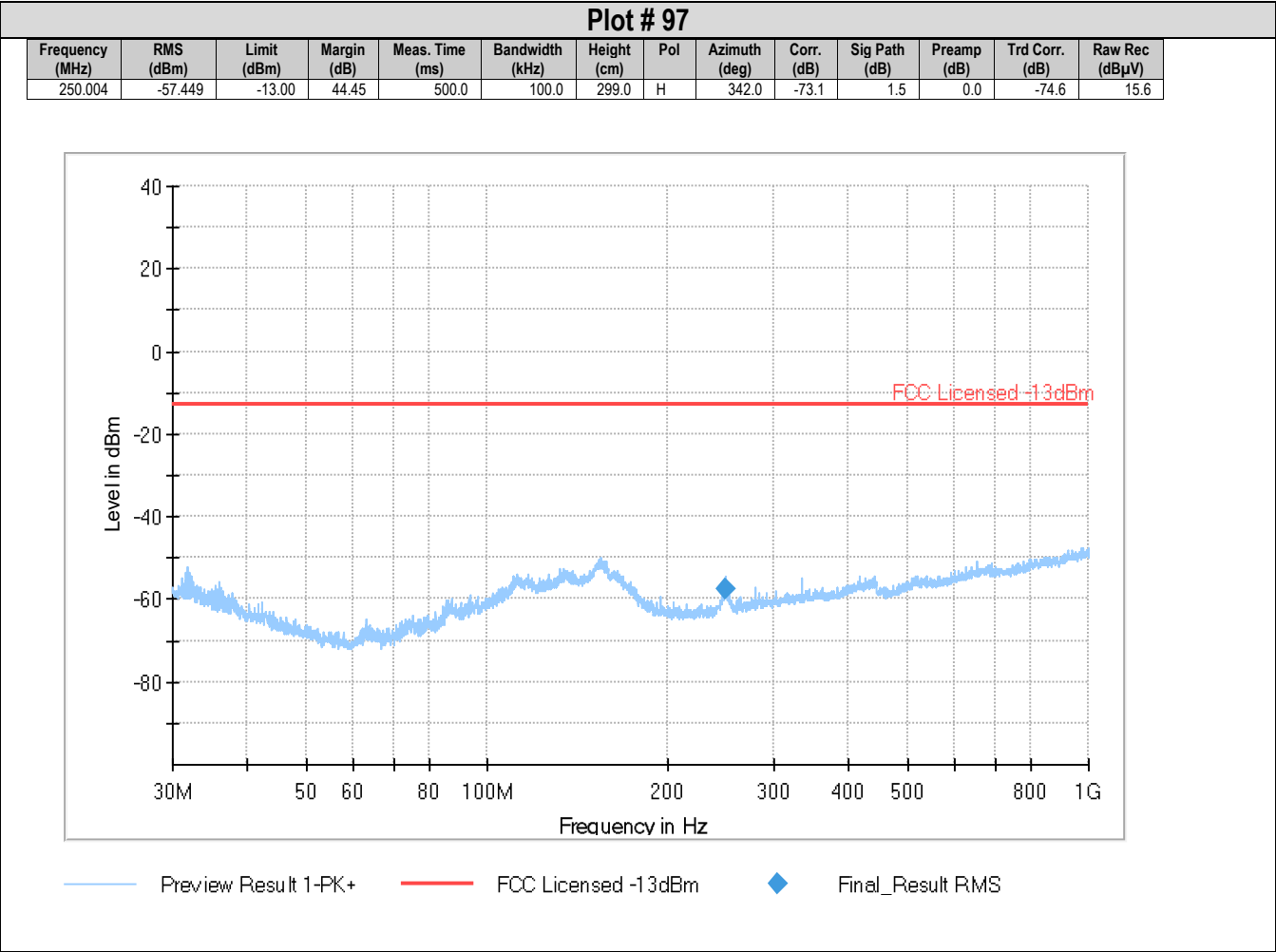
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3099.125	-46.762	-13.00	33.76	500.0	1000.0	147.0	V	317.0	-	5.4	-45.9	-62.5	56.2
3549.125	-47.246	-13.00	34.25	500.0	1000.0	166.0	V	192.0	-	5.9	-46.0	-62.4	55.2



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

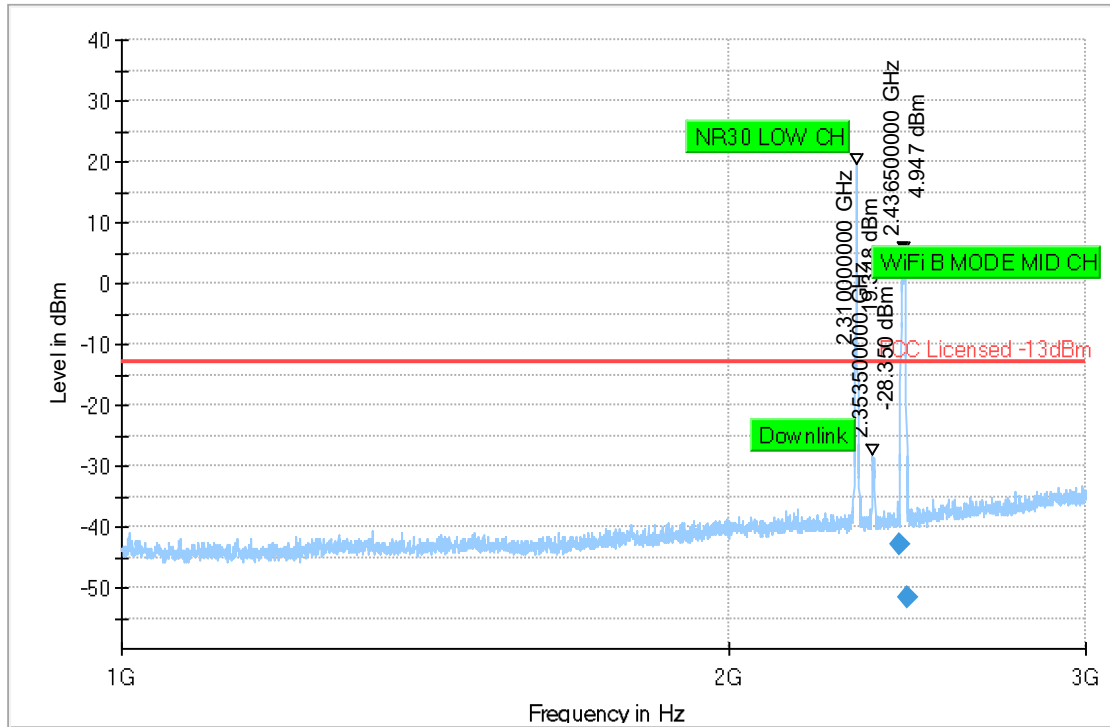


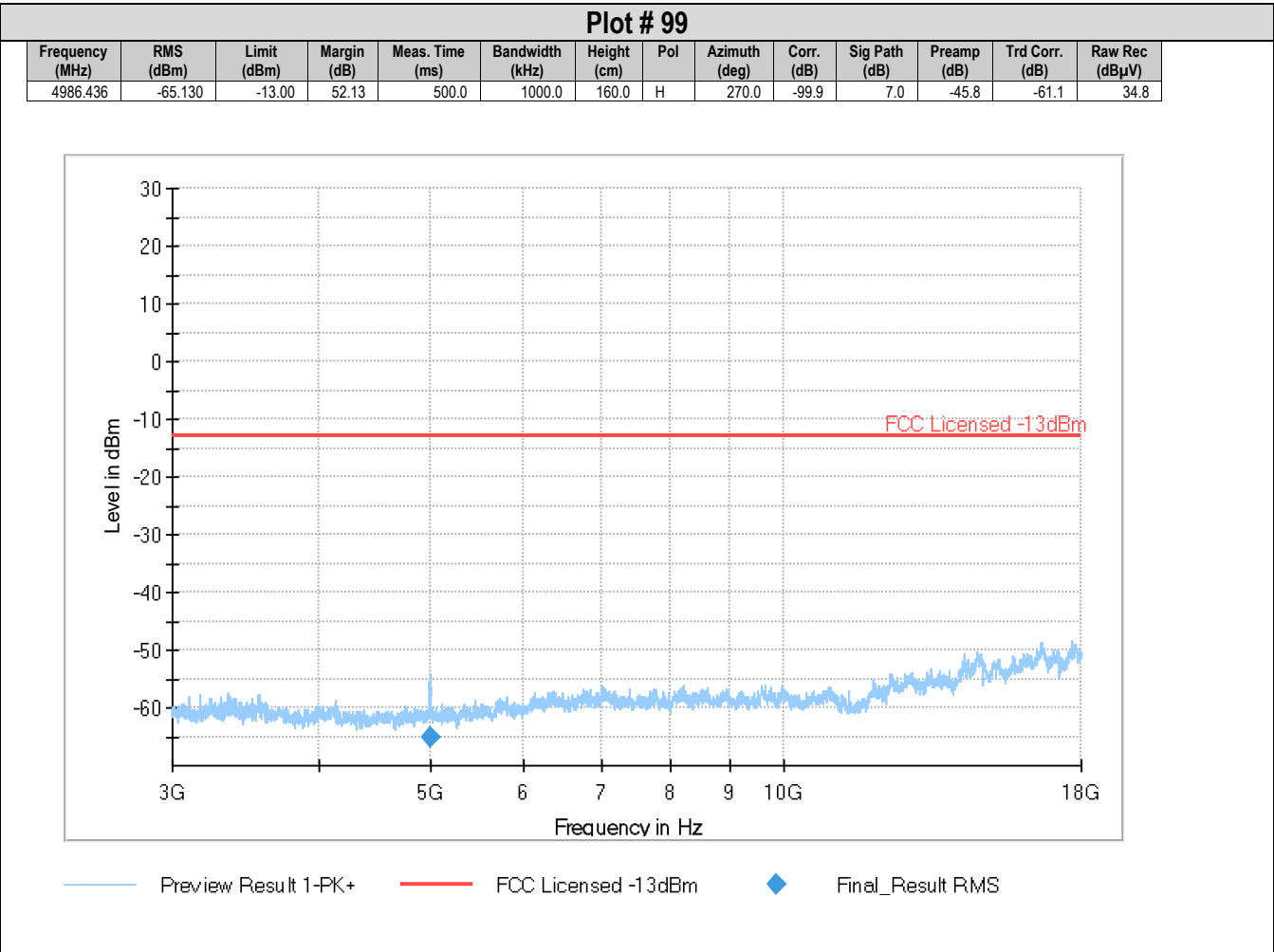
8.1.5.10 NR30



Plot # 98

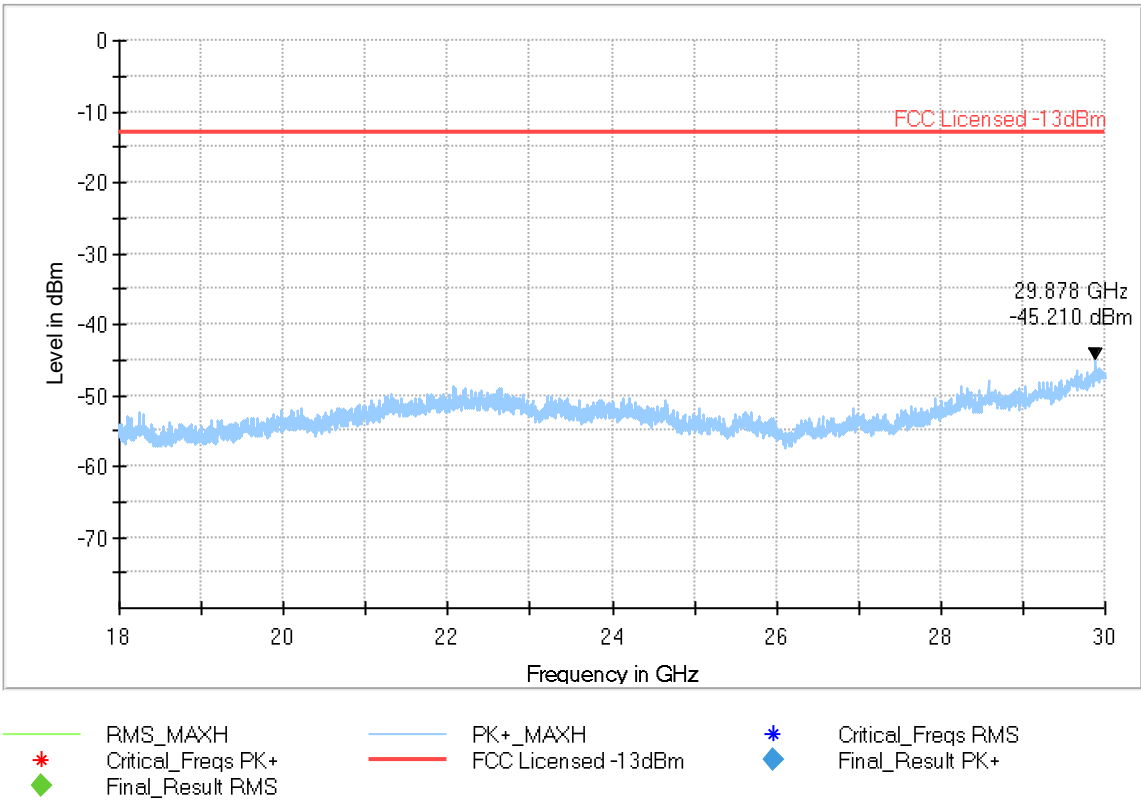
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preampl (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2427.500	-42.819	-13.00	29.82	500.0	1000.0	248.0	H	109.0	-61.7	5.4	0.0	-67.1	18.9
2449.750	-51.526	-13.00	38.53	500.0	1000.0	196.0	H	113.0	-61.5	5.5	0.0	-67.0	10.0







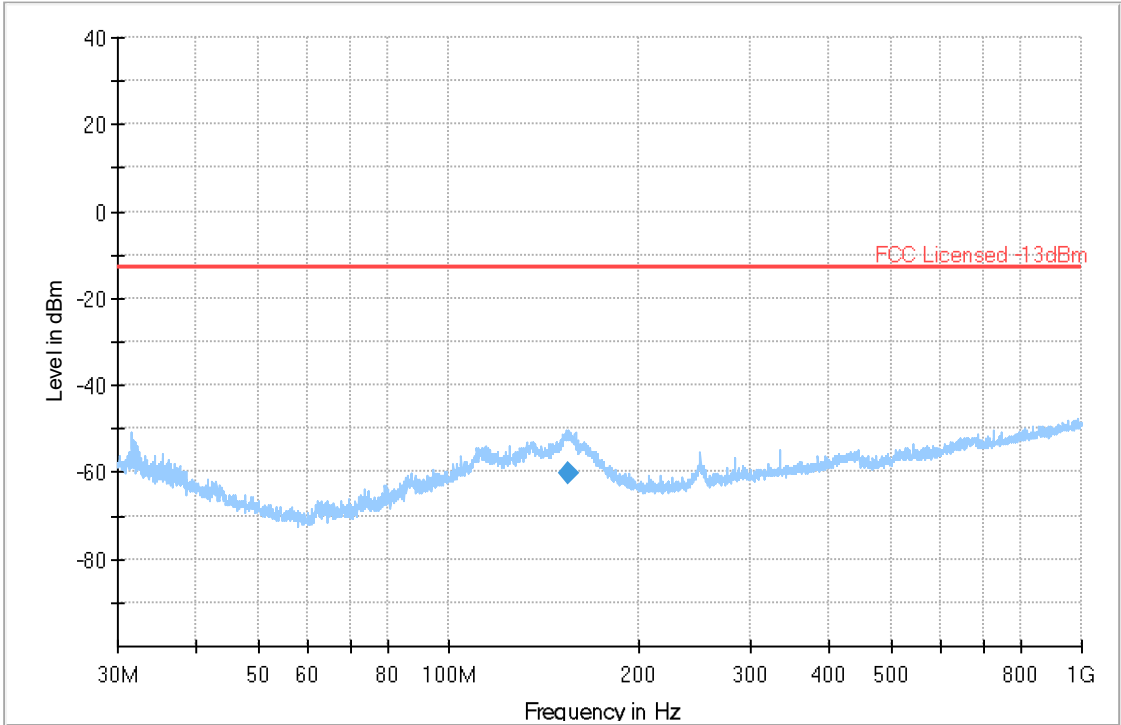
Plot # 100





Plot # 101

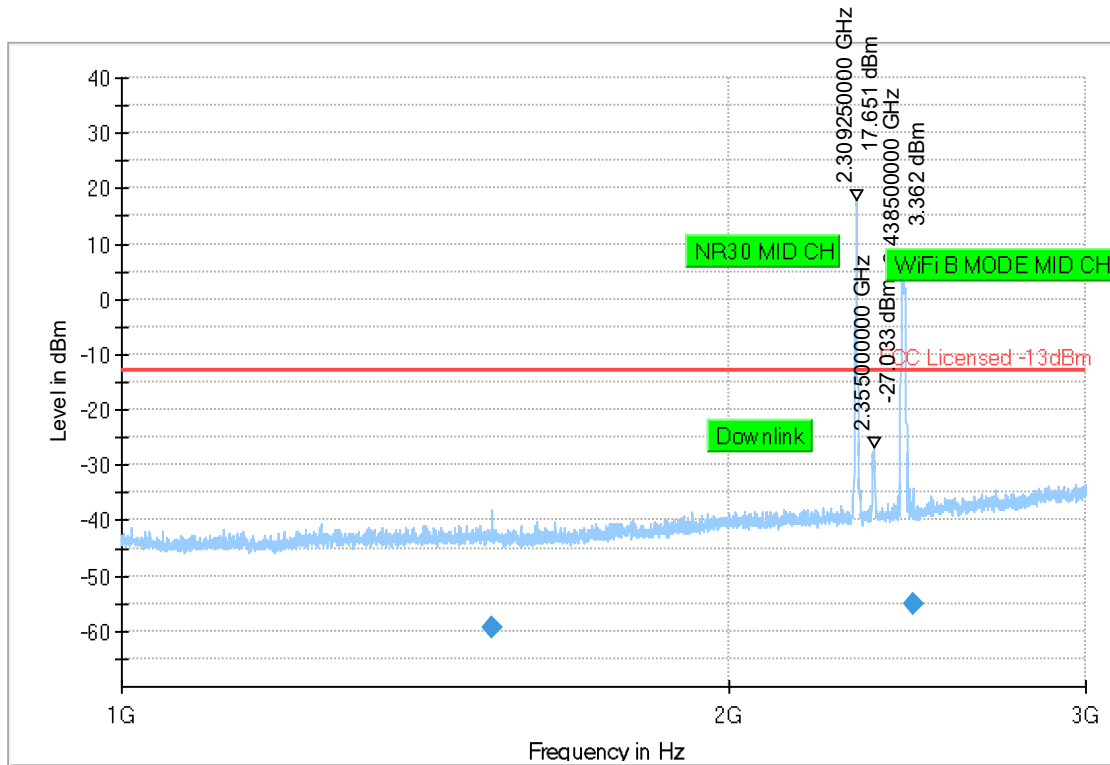
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
154.509	-60.096	-13.00	47.10	500.0	100.0	127.0	H	144.0	-71.5	1.2	0.0	-72.7	11.4



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

Plot # 102

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1523.750	-59.489	-13.00	46.49	500.0	1000.0	248.0	H	143.0	-65.5	4.4	0.0	-70.0	6.1
2462.914	-54.976	-13.00	41.98	500.0	1000.0	169.0	V	240.0	-61.6	5.4	0.0	-67.0	6.6

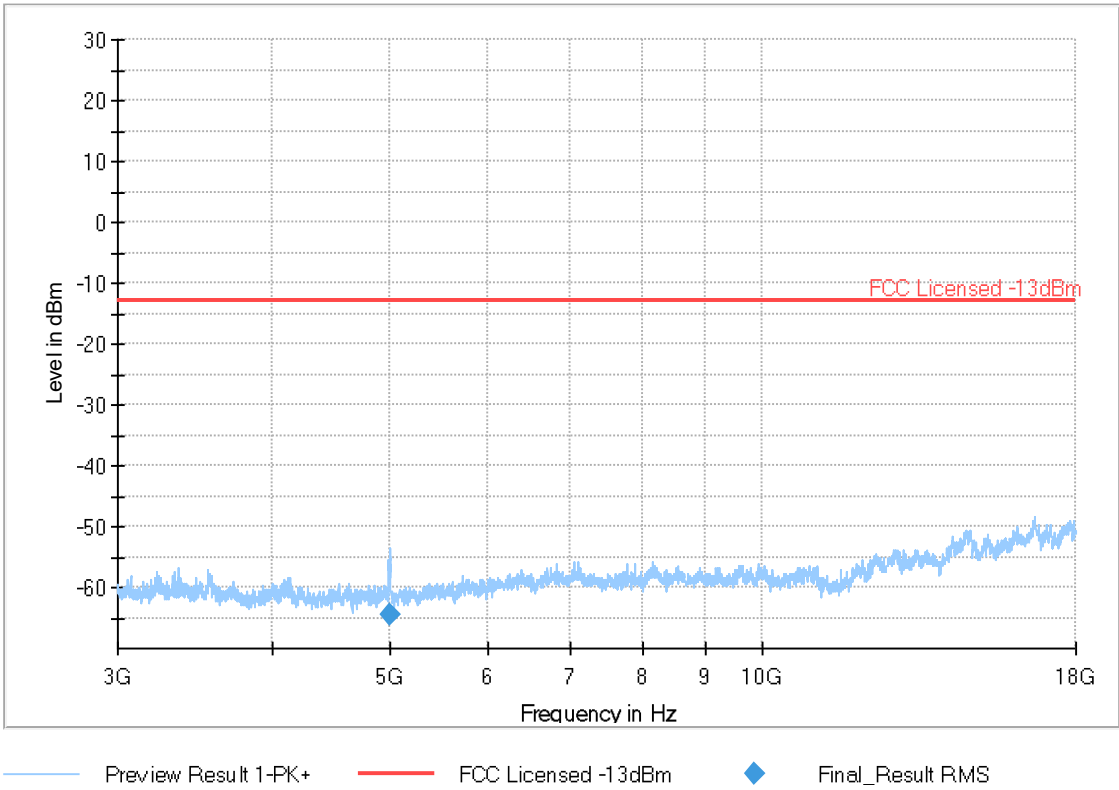


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS

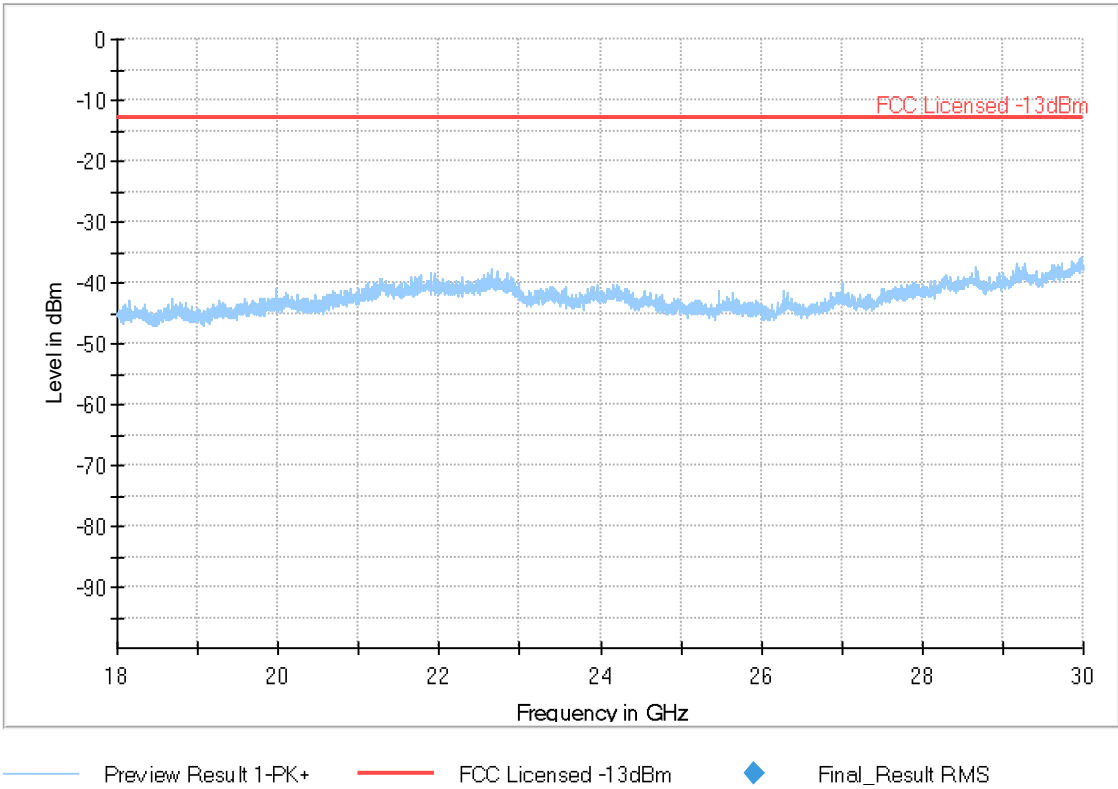


Plot # 103

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
4988.688	-64.434	-13.00	51.43	500.0	1000.0	169.0	H	276.0	-99.9	7.0	-45.8	-61.1	35.4



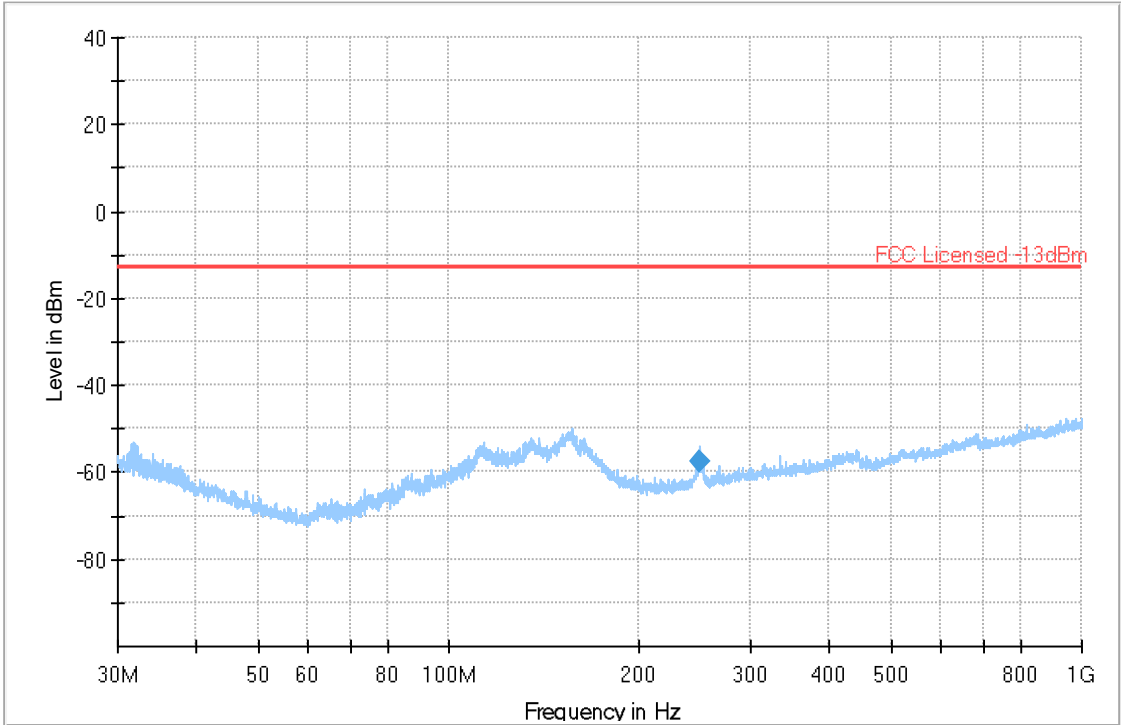
Plot # 104





Plot # 105

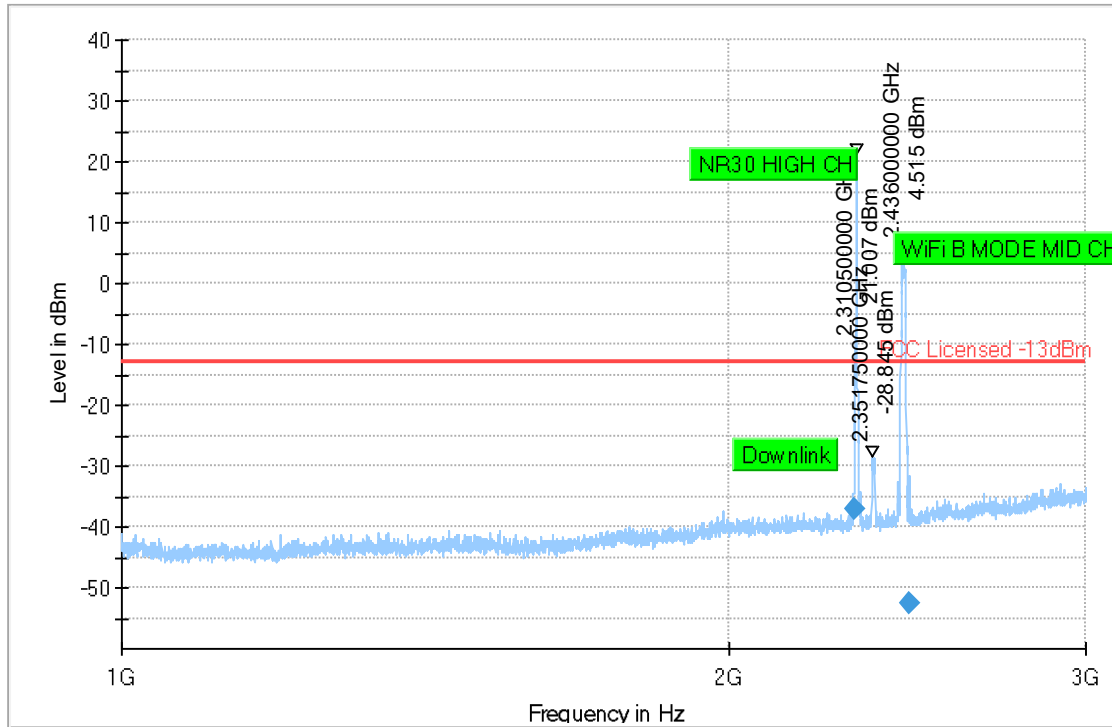
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
249.997	-57.772	-13.00	44.77	500.0	100.0	334.0	H	-9.0	-73.1	1.5	0.0	-74.6	15.3



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

Plot # 106

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2304.250	-36.956	-13.00	23.96	500.0	1000.0	193.0	H	304.0	-62.1	5.4	0.0	-67.5	25.2
2452.776	-52.604	-13.00	39.60	500.0	1000.0	228.0	H	109.0	-61.5	5.5	0.0	-67.0	8.9

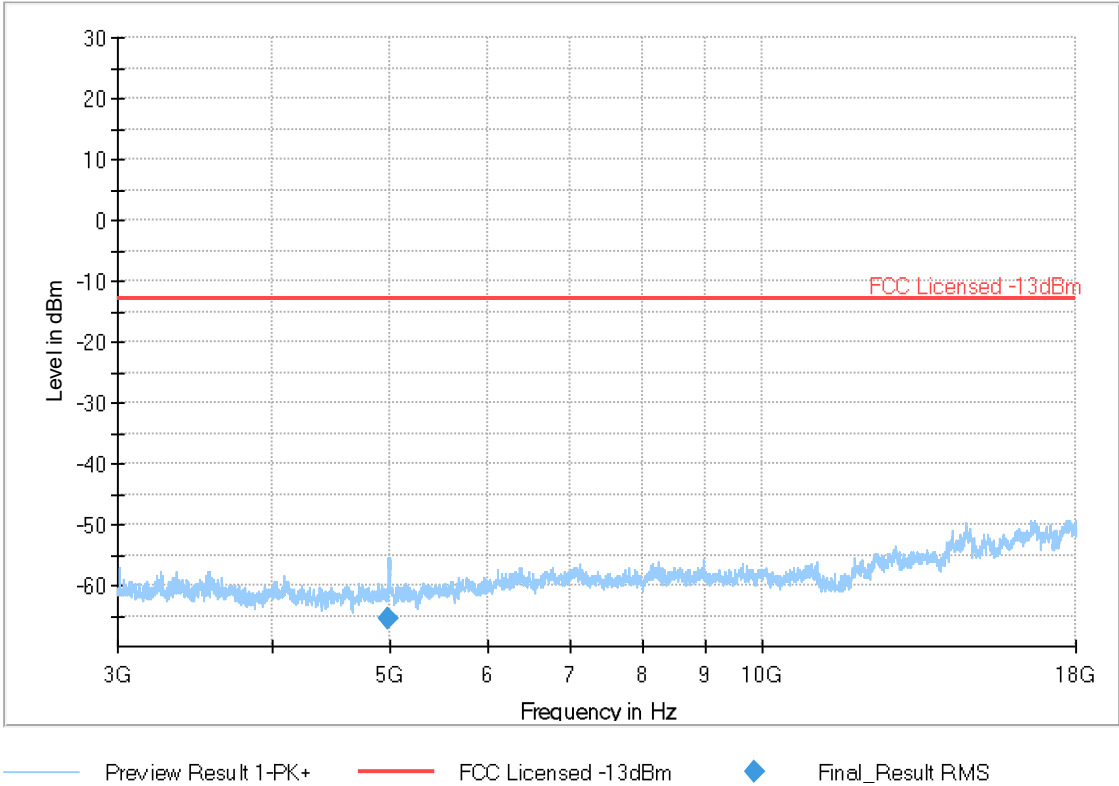


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS

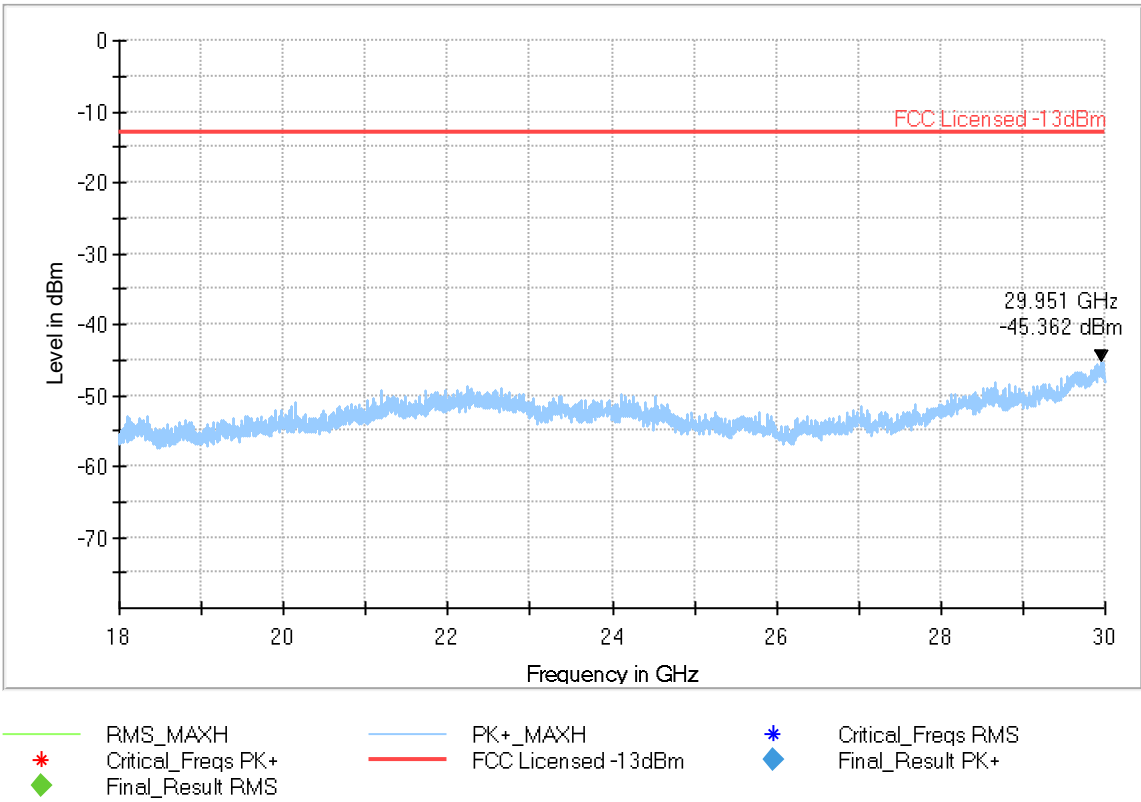


Plot # 107

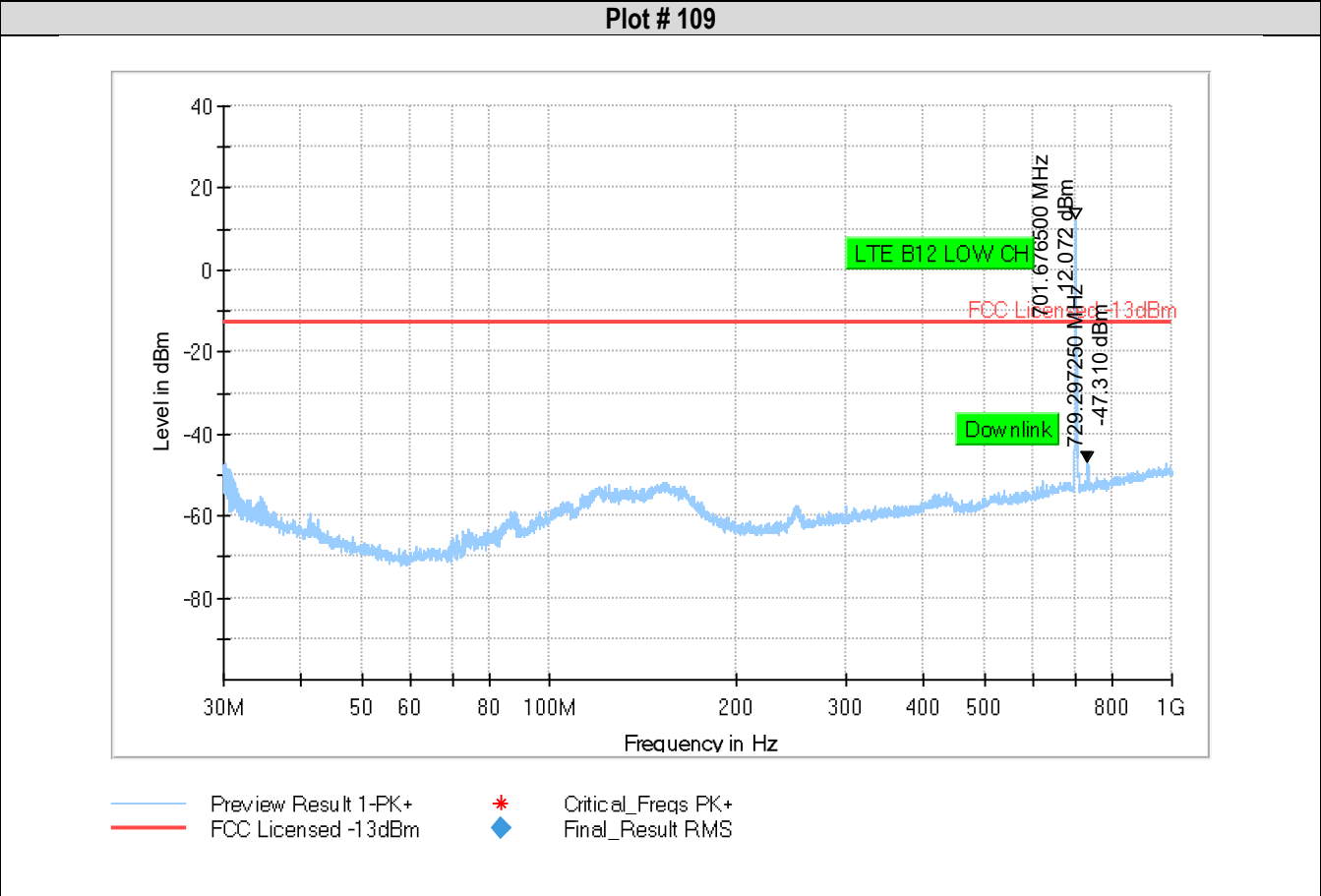
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
4980.250	-65.587	-13.00	52.59	500.0	1000.0	152.0	H	271.0	-99.9	6.9	-45.7	-61.1	34.3



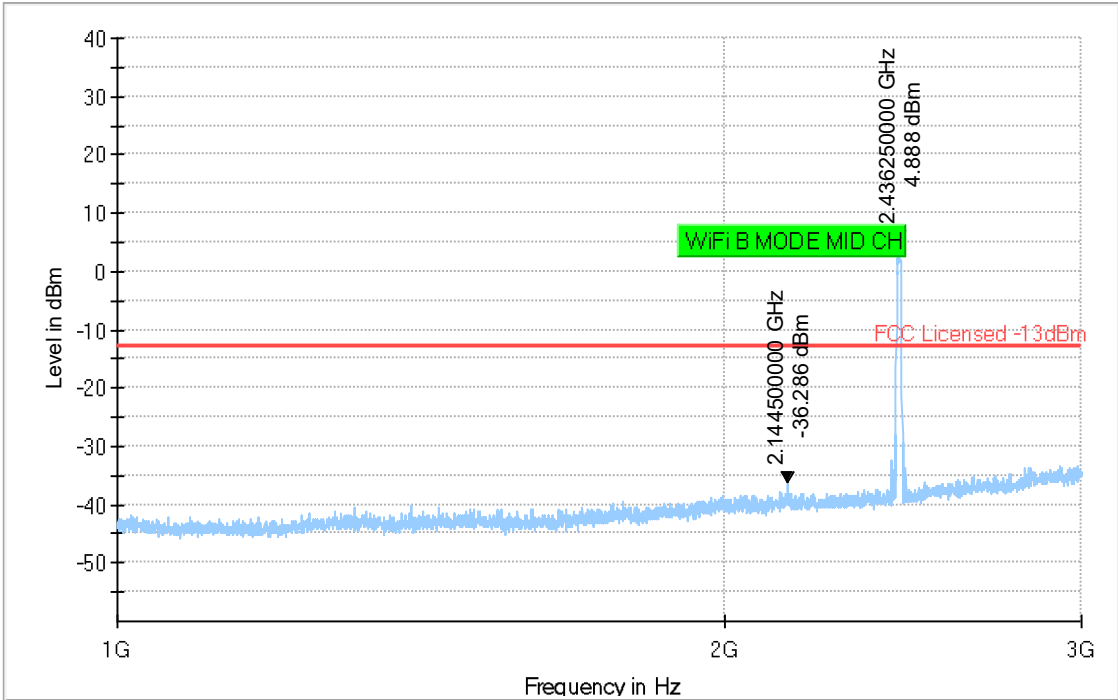
Plot # 108



8.1.5.11 LTE Band 12

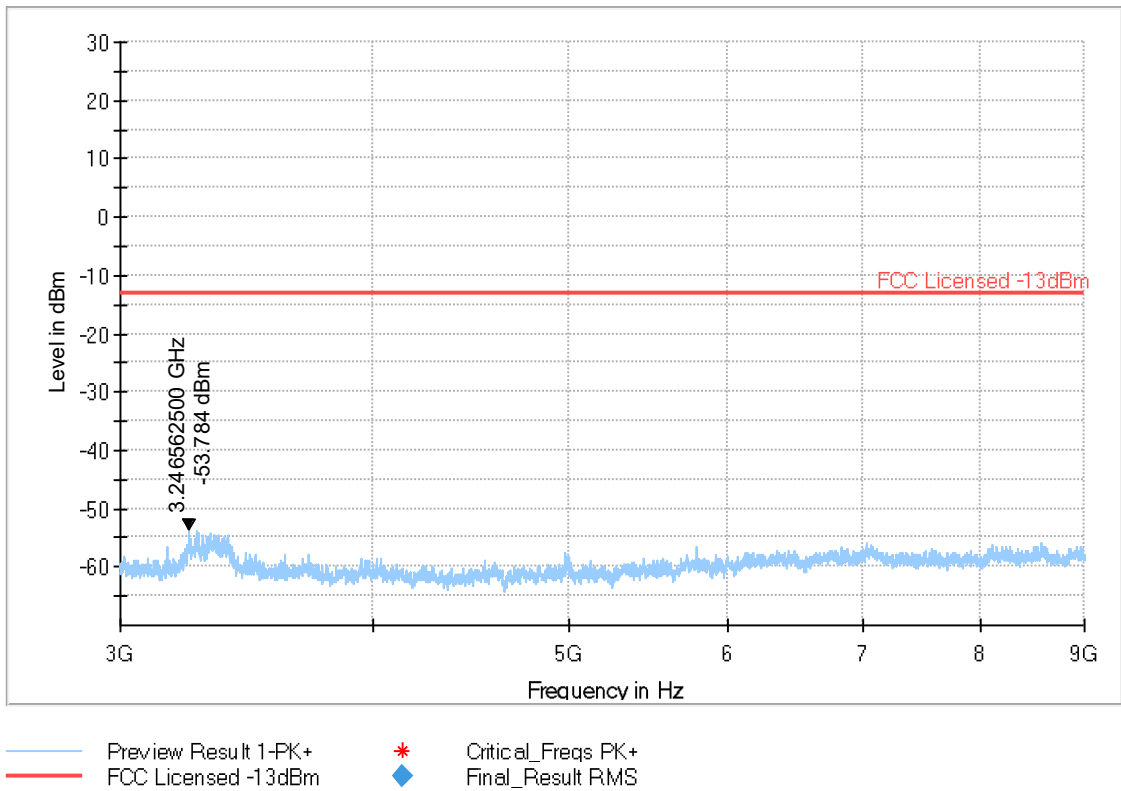


Plot # 110

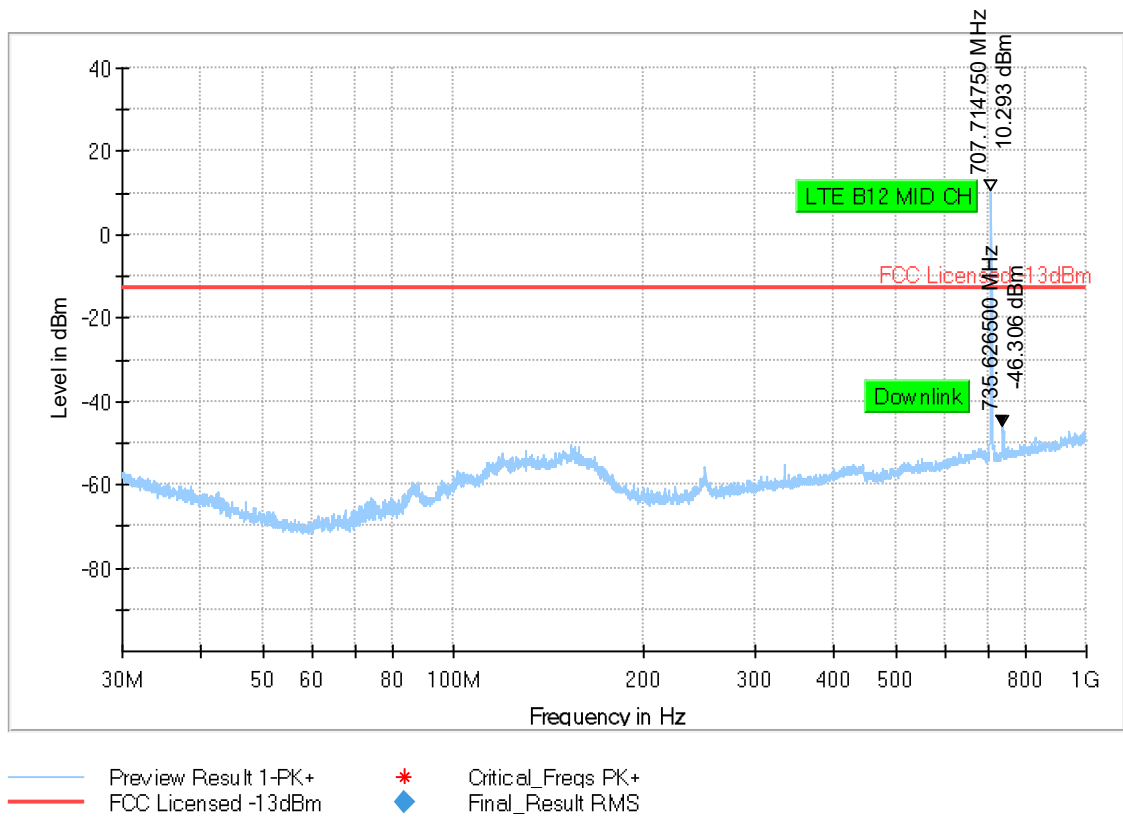


Preview Result 1-PK+ * Critical_Freqs PK+
FCC Licensed -13dBm ♦ Final_Result RMS

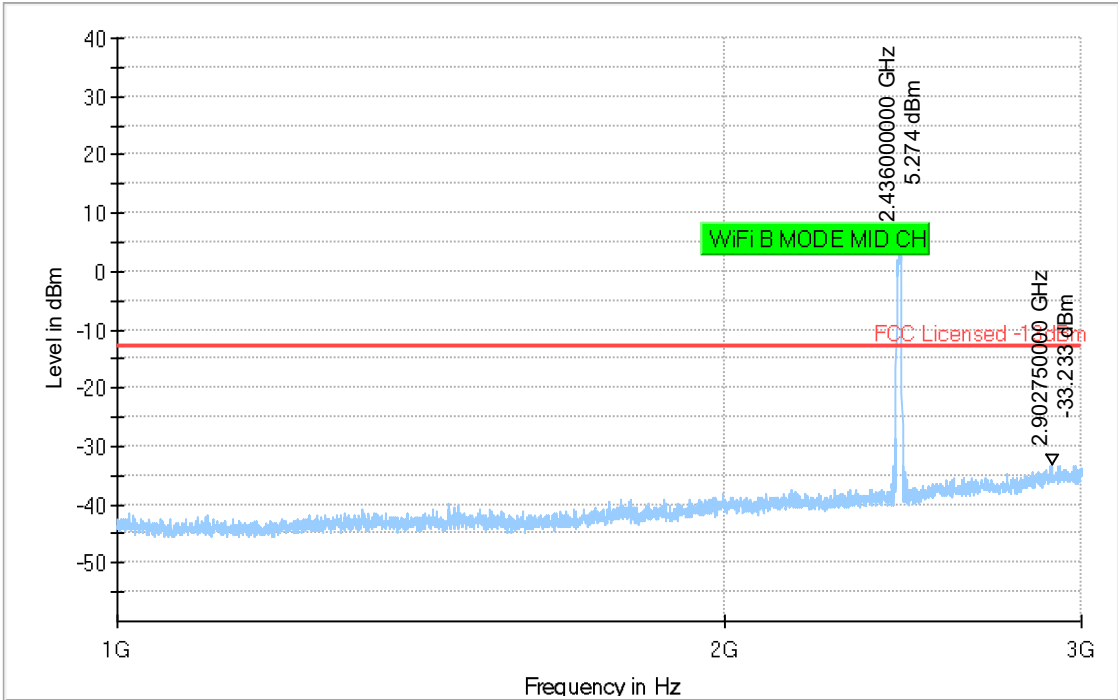
Plot # 111



Plot # 112

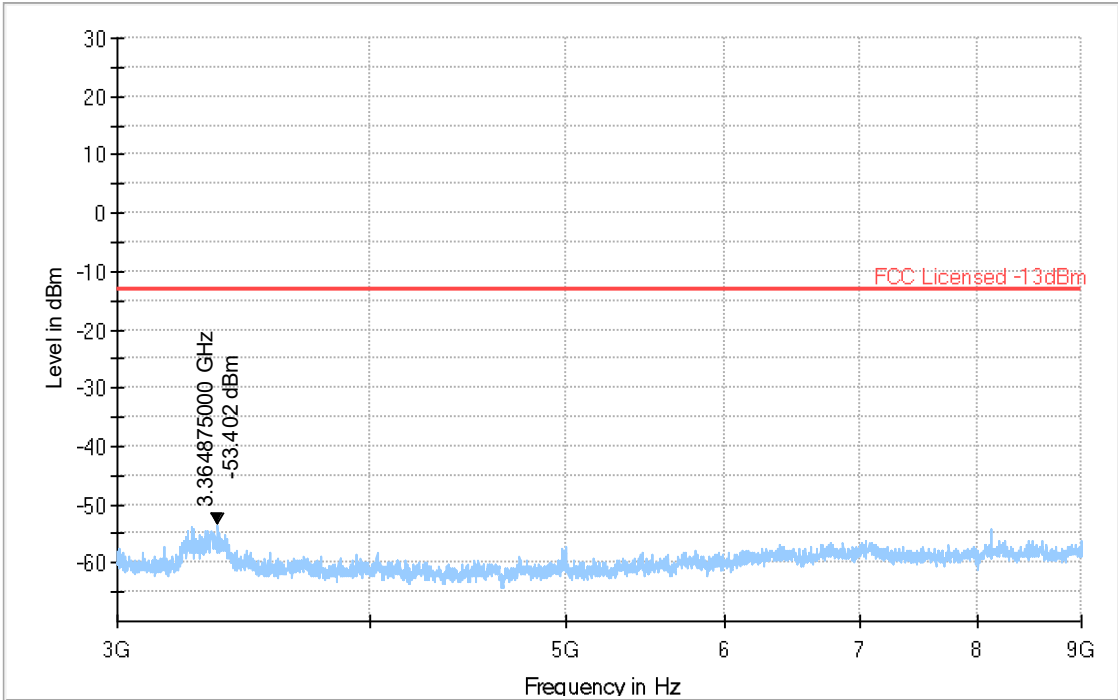


Plot # 113



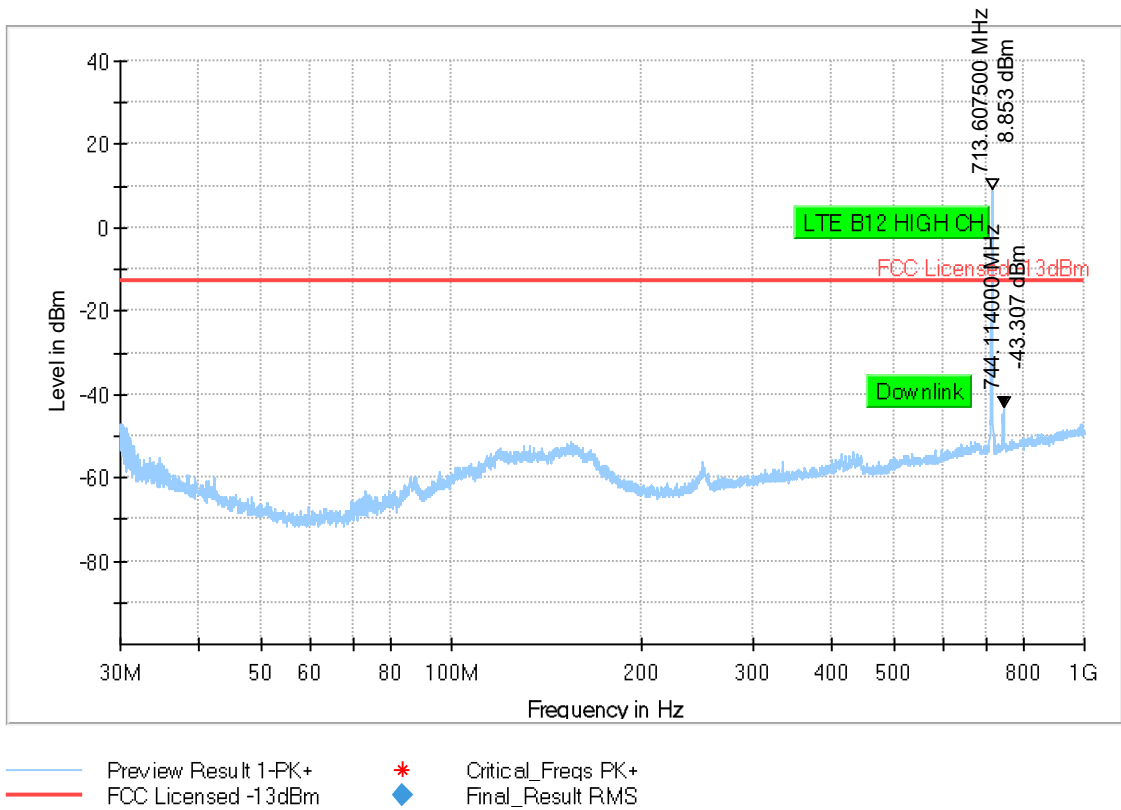
Preview Result 1-PK+ * Critical_Freqs PK+
FCC Licensed -13dBm ♦ Final_Result RMS

Plot # 114



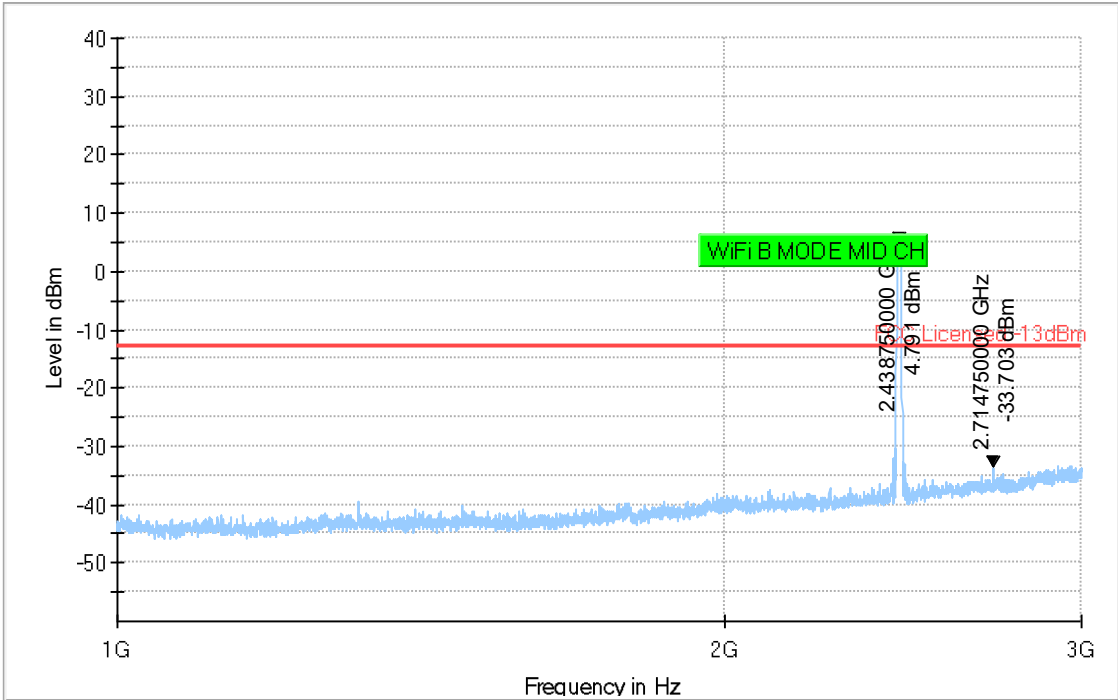
— Preview Result 1-PK+ * Critical_Freqs PK+
— FCC Licensed -13dBm ◆ Final_Result RMS

Plot # 115



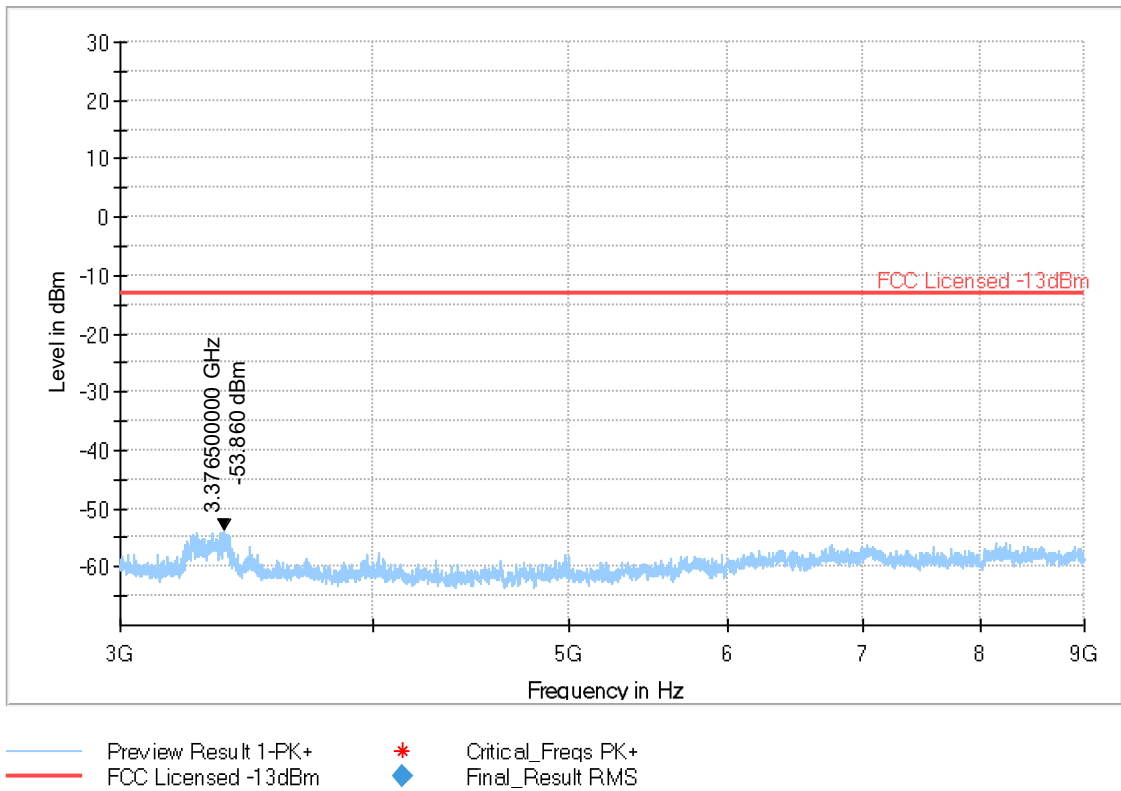


Plot # 116

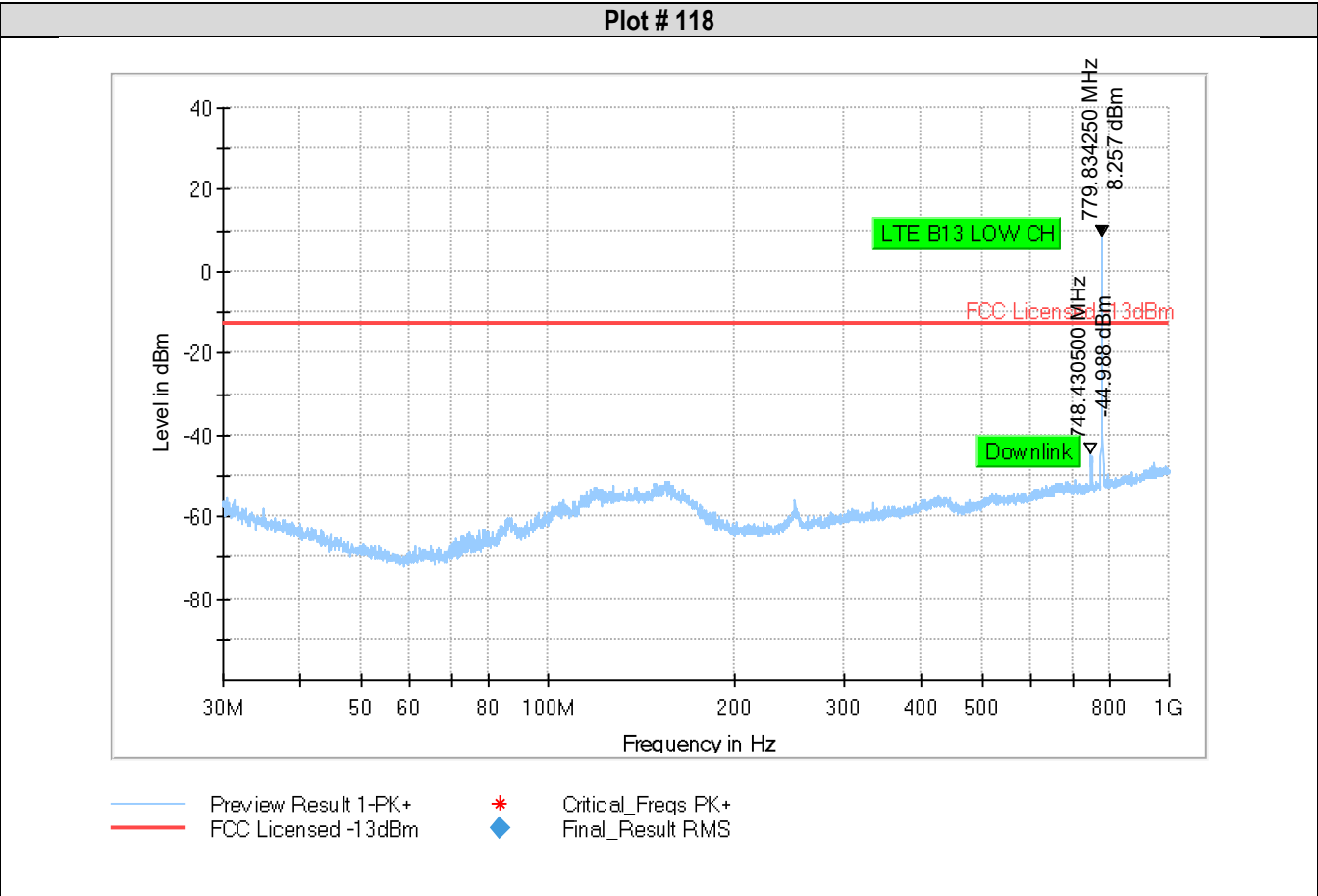


Preview Result 1-PK+ * Critical_Freqs PK+
FCC Licensed -13dBm ♦ Final_Result RMS

Plot # 117

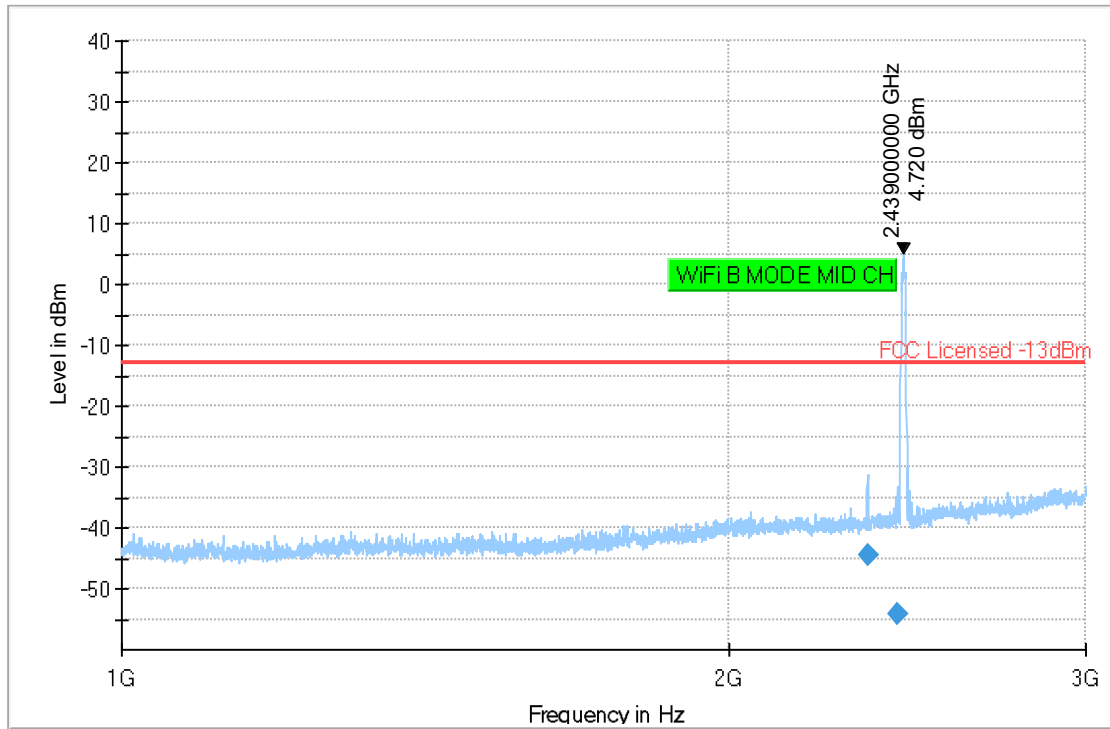


8.1.5.12 LTE Band 13



Plot # 119

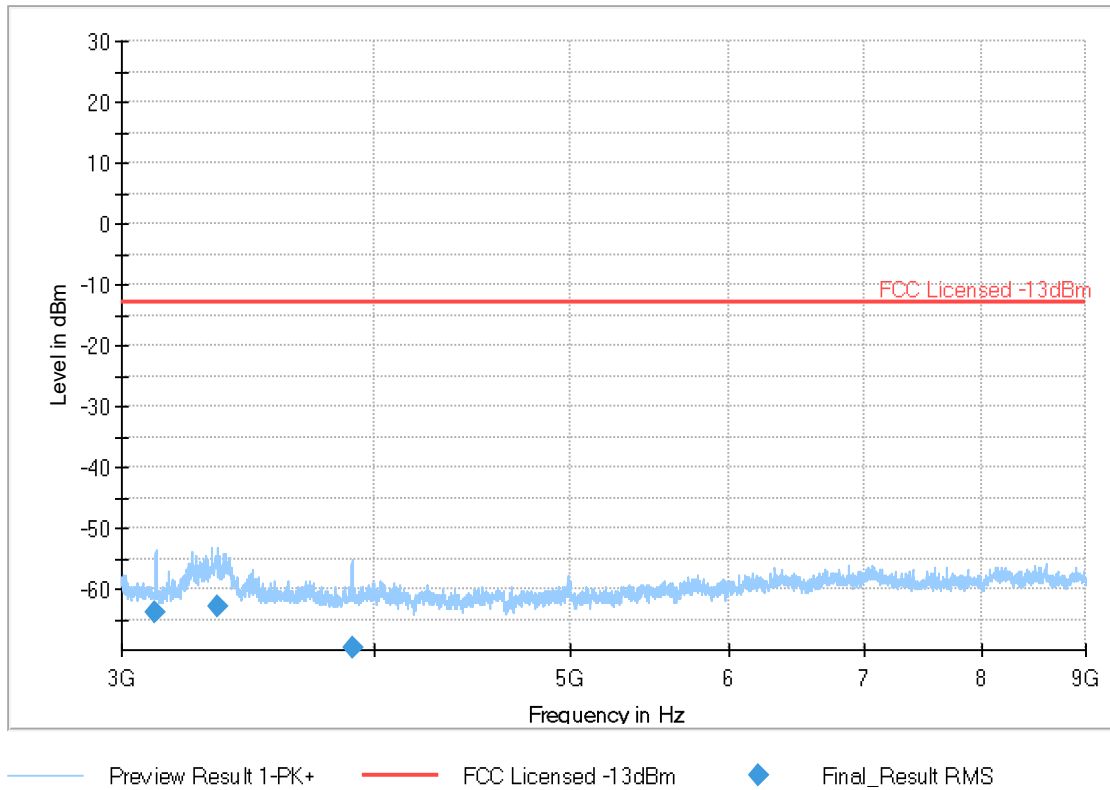
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2339.250	-44.551	-13.00	31.55	500.0	1000.0	274.0	V	60.0	-62.2	5.3	0.0	-67.4	17.6
2420.000	-54.345	-13.00	41.34	500.0	1000.0	294.0	V	-29.0	-61.8	5.4	0.0	-67.2	7.4



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

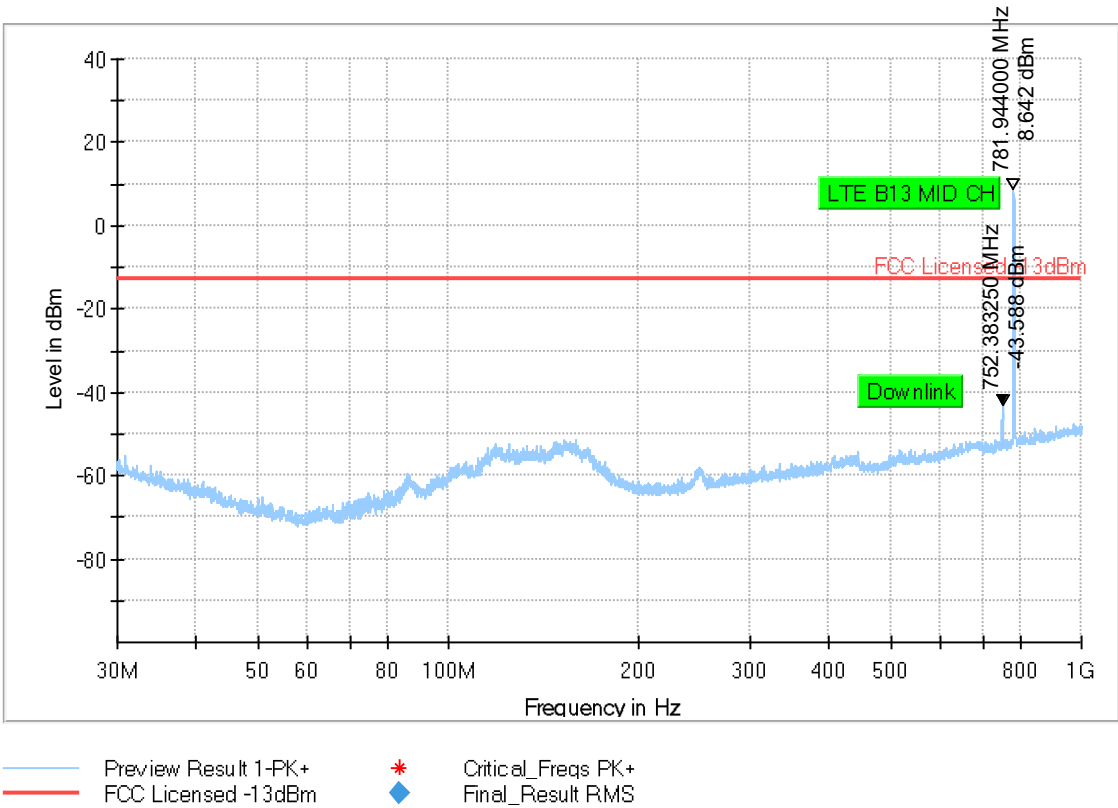
Plot # 120

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3119.375	-63.991	-13.00	50.99	500.0	1000.0	134.0	V	318.0	-	5.5	-45.9	-62.5	39.0
3346.375	-62.801	-13.00	49.80	500.0	1000.0	189.0	V	74.0	-	5.8	-45.9	-62.6	39.8
3900.625	-69.715	-13.00	56.72	500.0	1000.0	100.0	V	-43.0	-	6.1	-45.8	-62.0	32.1



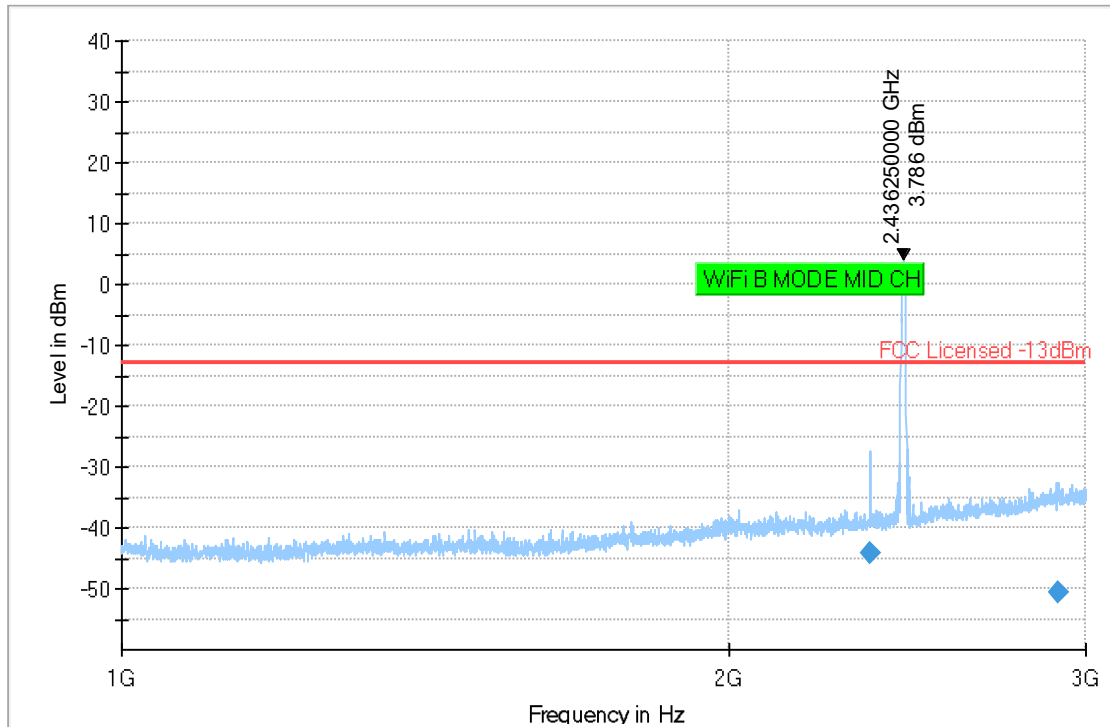


Plot # 121



Plot # 122

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preampl (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2346.000	-44.089	-13.00	31.09	500.0	1000.0	185.0	V	288.0	-62.1	5.3	0.0	-67.4	18.0
2908.492	-50.729	-13.00	37.73	500.0	1000.0	272.0	H	114.0	-59.9	6.0	0.0	-65.8	9.1

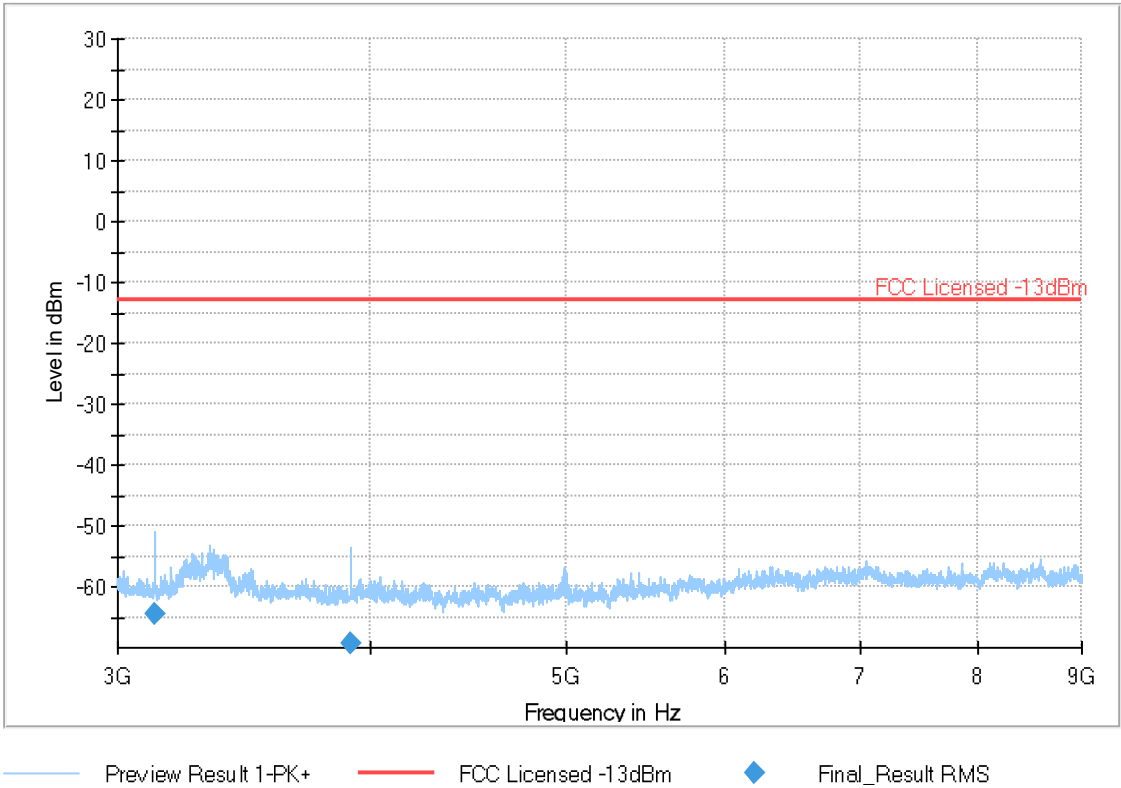


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS

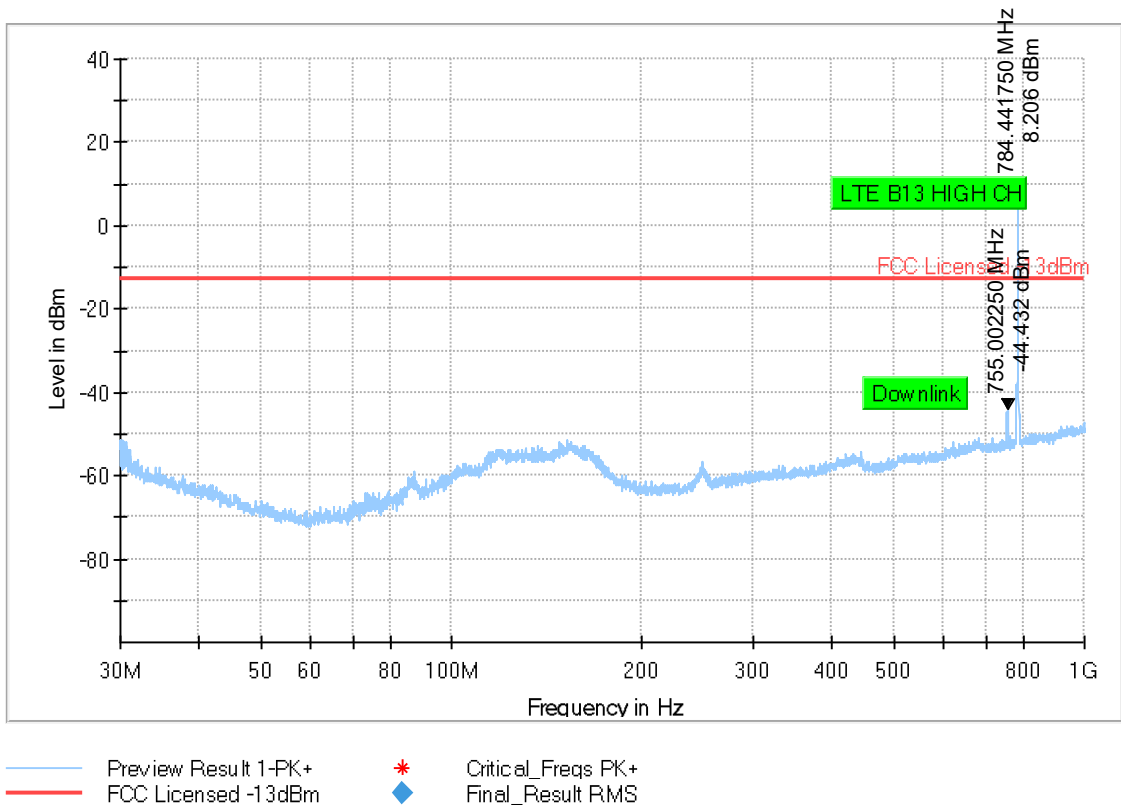


Plot # 123

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3128.687	-64.472	-13.00	51.47	500.0	1000.0	100.0	V	340.0	-	5.5	-45.9	-62.5	38.5
3910.468	-69.274	-13.00	56.27	500.0	1000.0	291.0	V	48.0	-	6.0	-45.8	-62.0	32.6

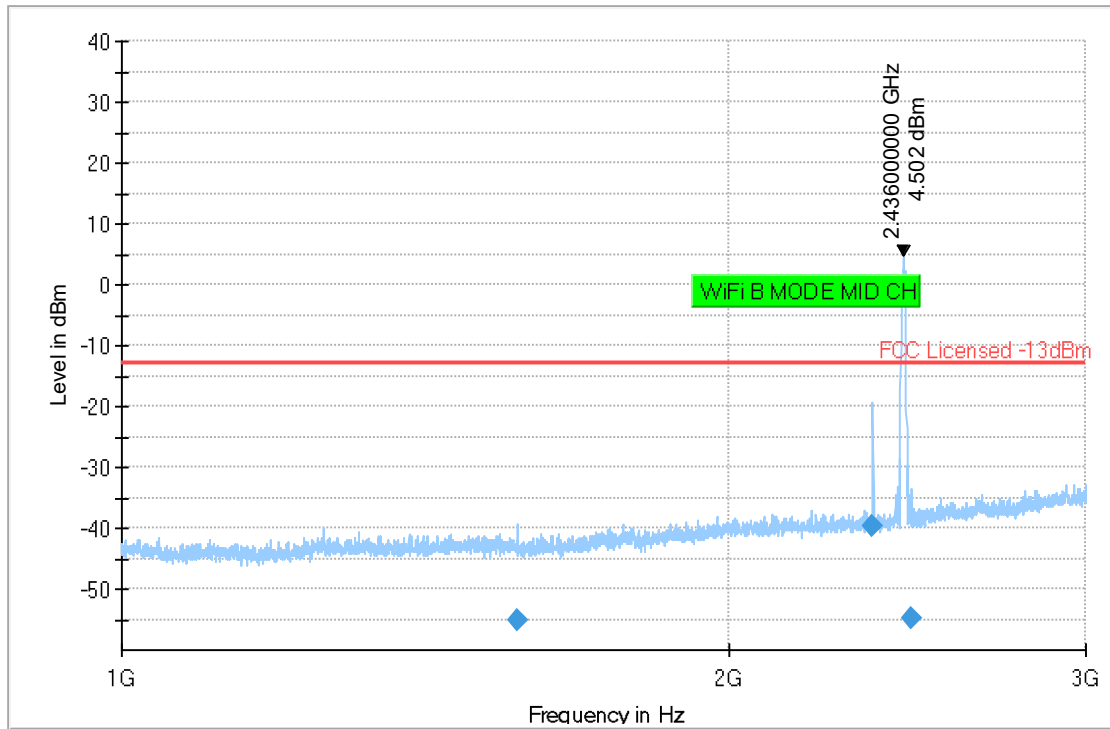


Plot # 124



Plot # 125

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preampl (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1569.240	-55.017	-13.00	42.02	500.0	1000.0	150.0	H	146.0	-65.4	4.5	0.0	-69.9	10.4
2353.500	-39.666	-13.00	26.67	500.0	1000.0	177.0	V	286.0	-62.1	5.3	0.0	-67.4	22.4
2457.157	-54.729	-13.00	41.73	500.0	1000.0	196.0	V	3.0	-61.6	5.4	0.0	-67.0	6.9

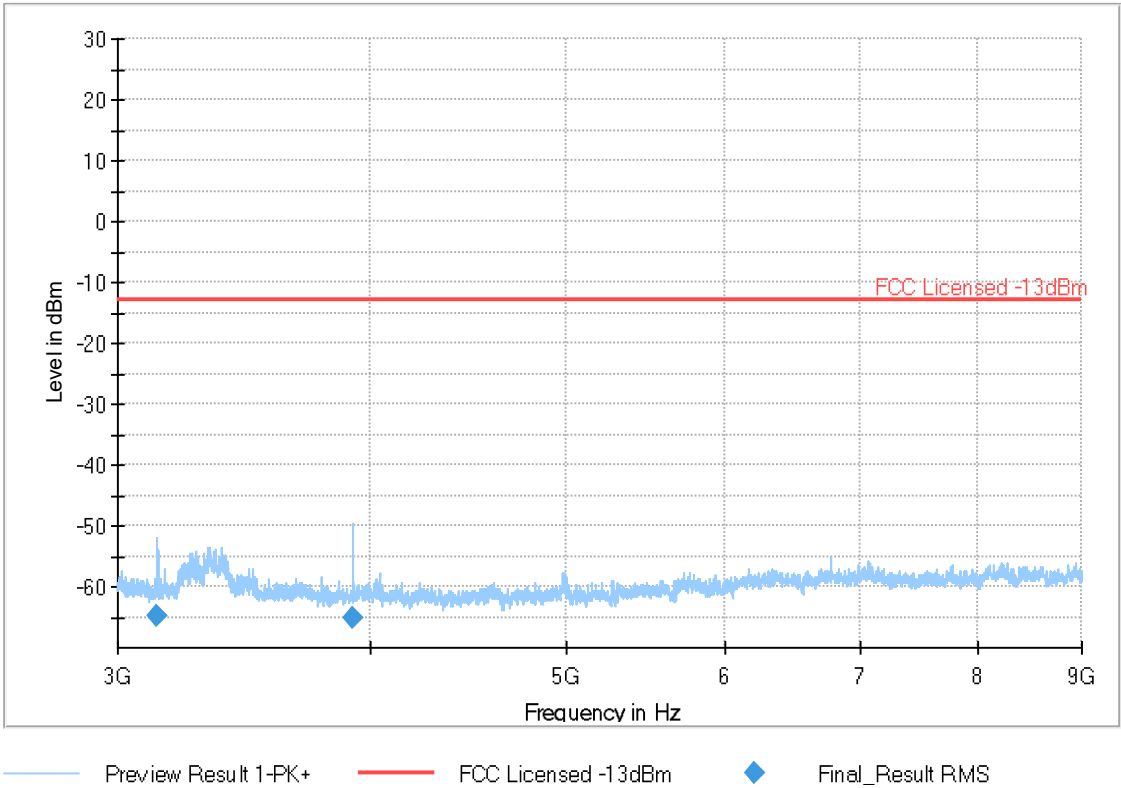


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS

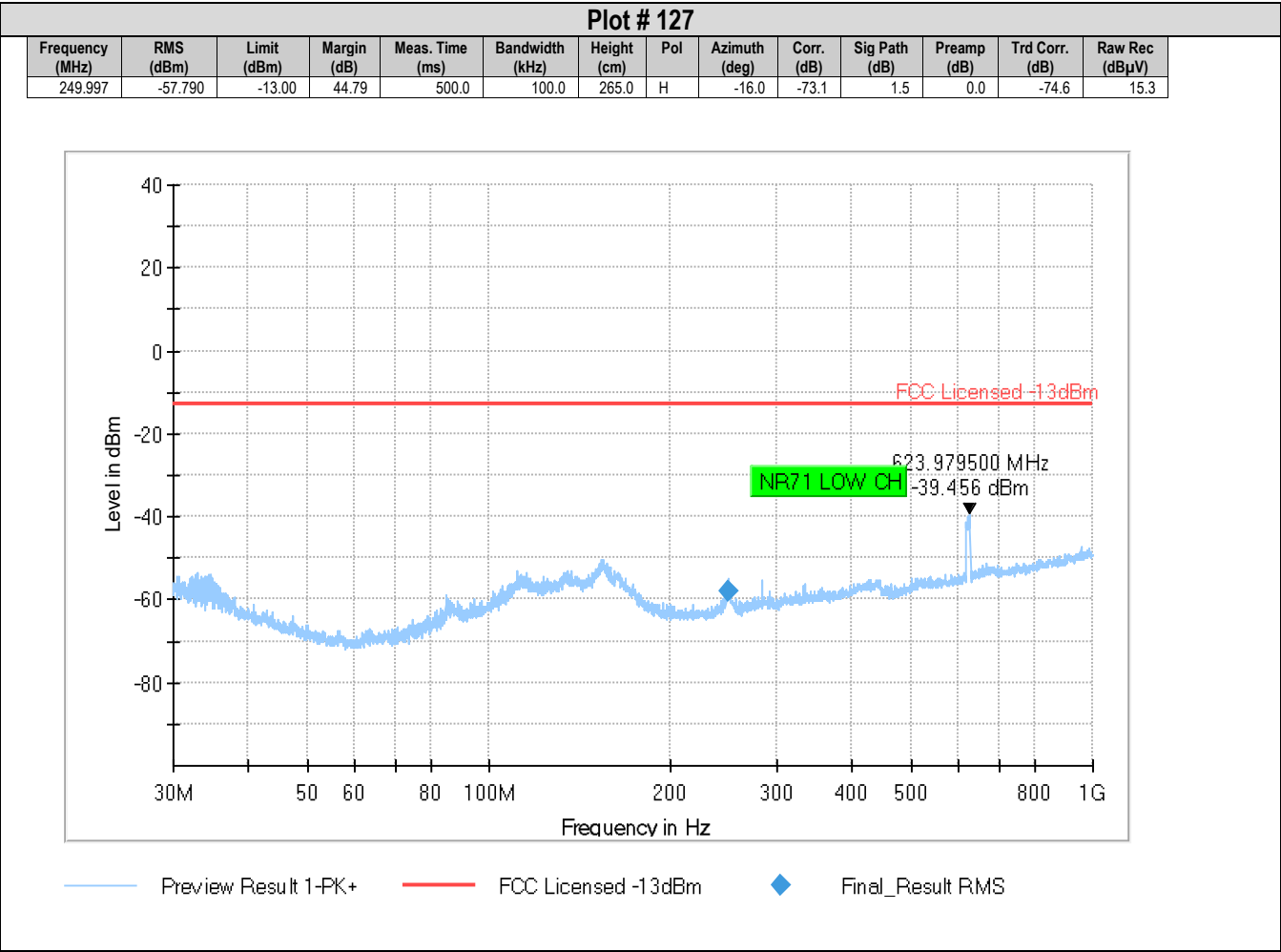


Plot # 126

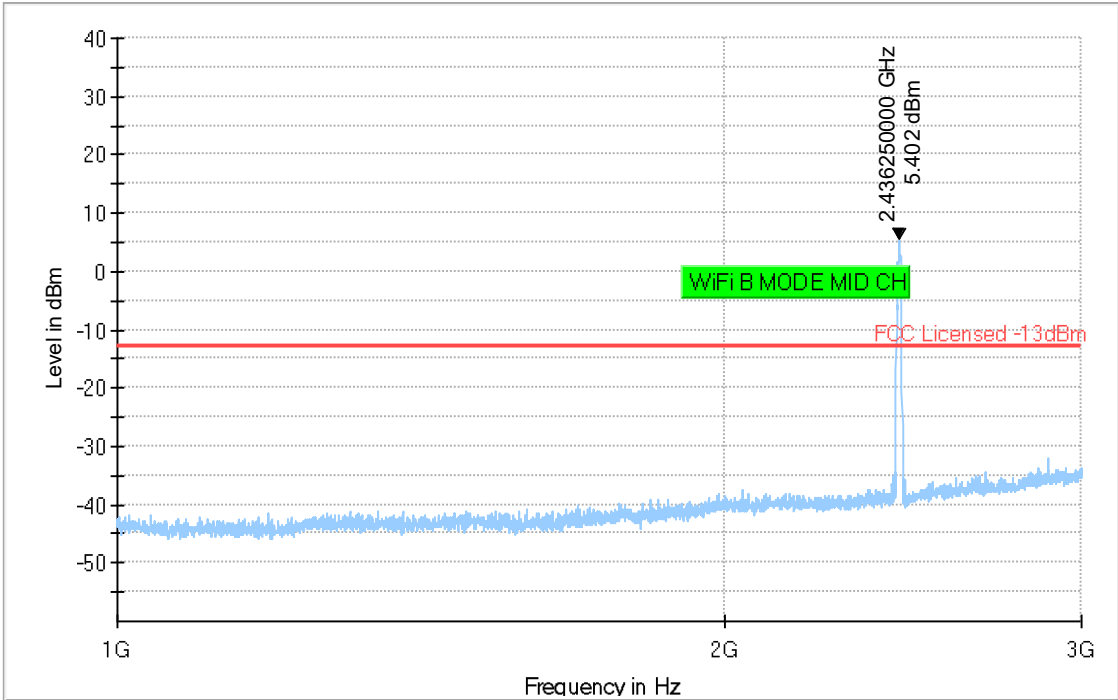
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3138.875	-64.968	-13.00	51.97	500.0	1000.0	125.0	V	335.0	-	5.5	-46.0	-62.6	38.0
3924.845	-65.198	-13.00	52.20	500.0	1000.0	160.0	V	300.0	-	6.1	-45.8	-62.0	36.5



8.1.5.13 NR71



Plot # 128

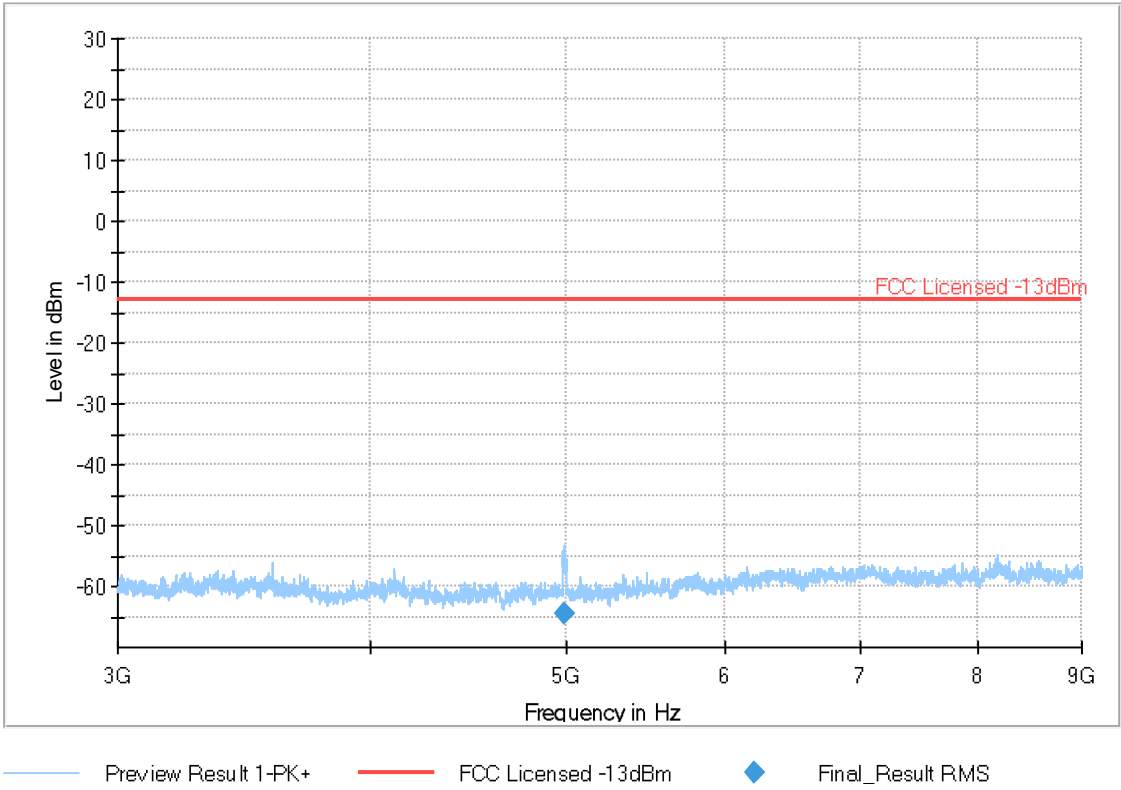


Preview Result 1-PK+ * Critical_Freqs PK+
FCC Licensed -13dBm ♦ Final_Result RMS



Plot # 129

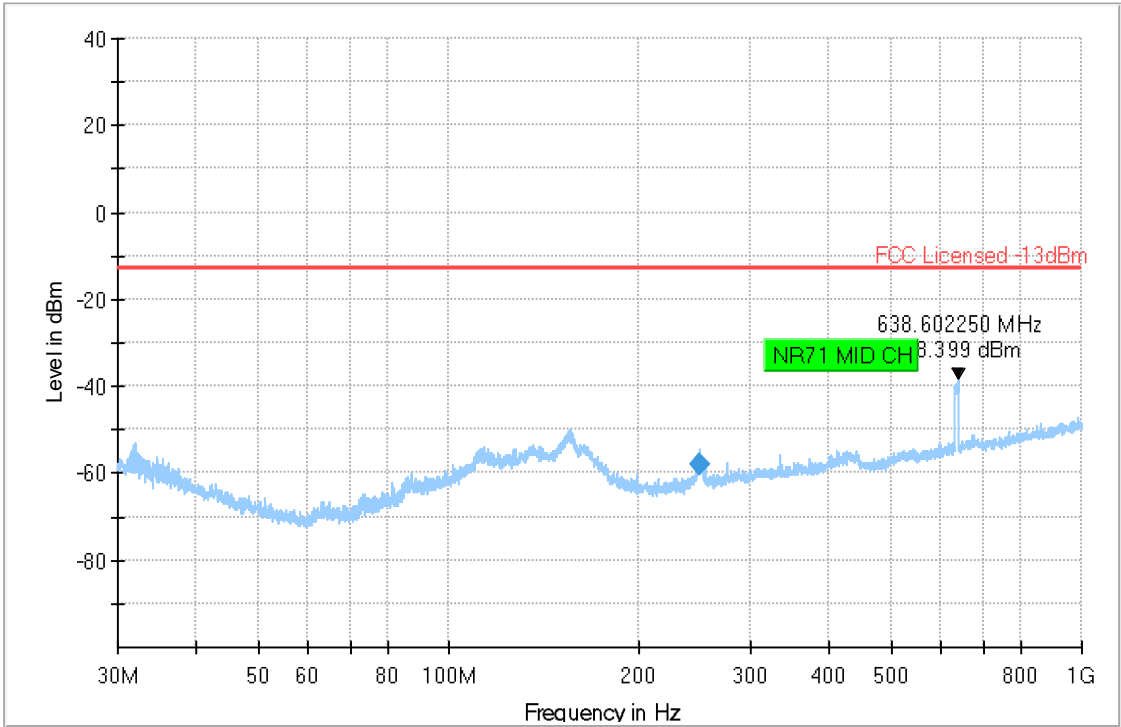
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
4986.628	-64.558	-13.00	51.56	500.0	1000.0	134.0	H	270.0	-99.9	7.0	-45.8	-61.1	35.3





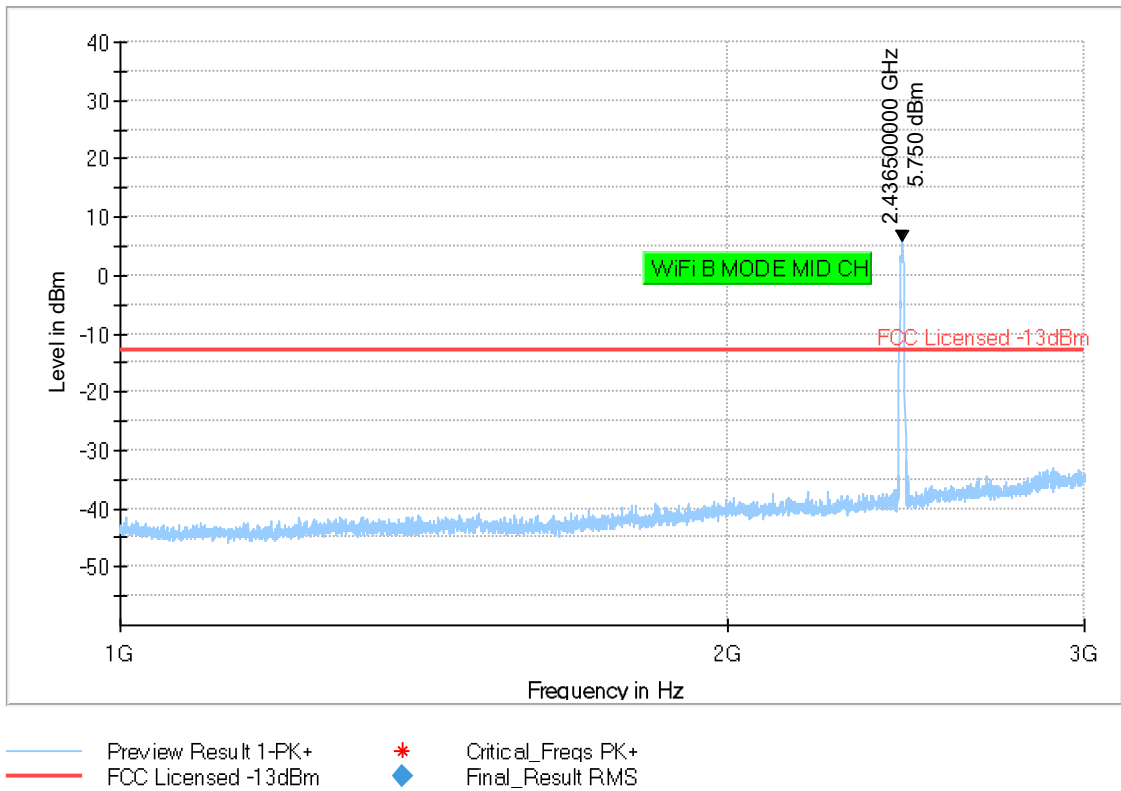
Plot # 130

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
249.997	-57.947	-13.00	44.95	500.0	100.0	346.0	H	352.0	-73.1	1.5	0.0	-74.6	15.1

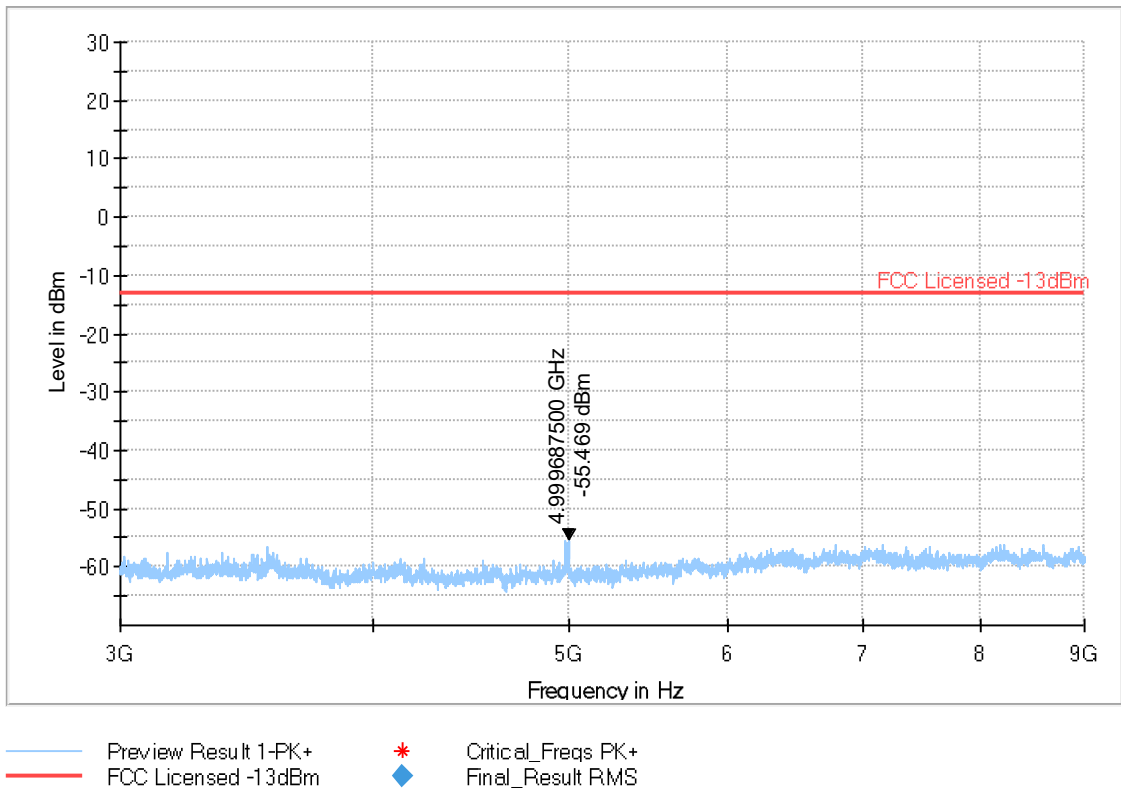


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS

Plot # 131



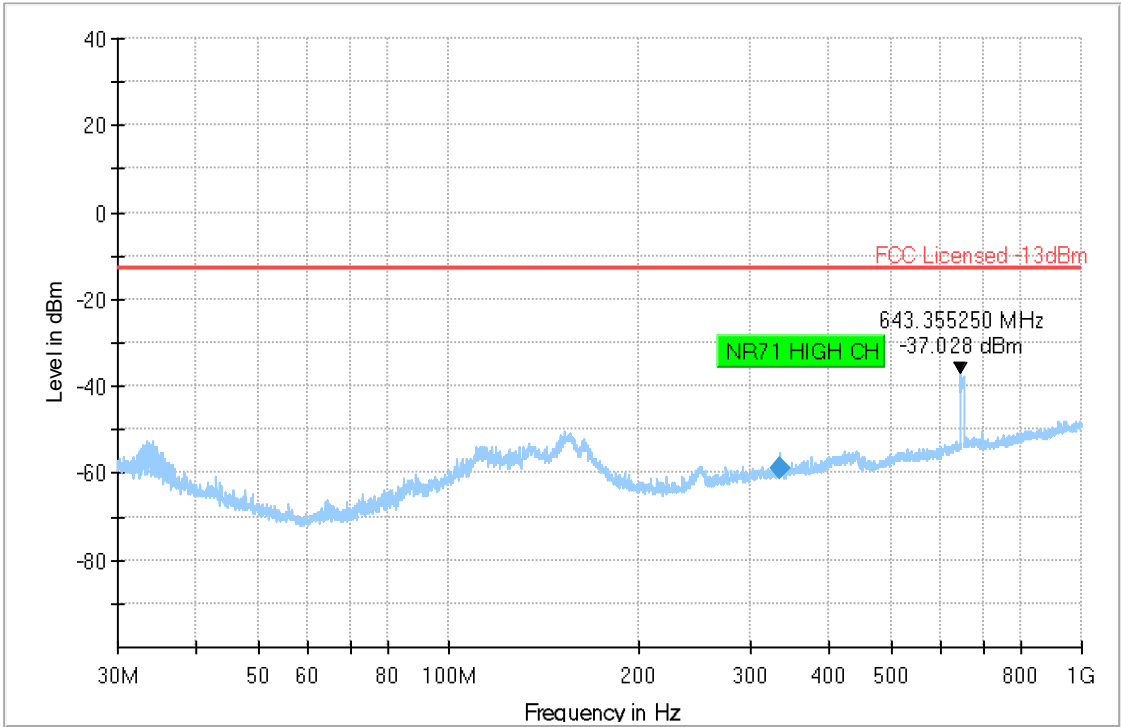
Plot # 132





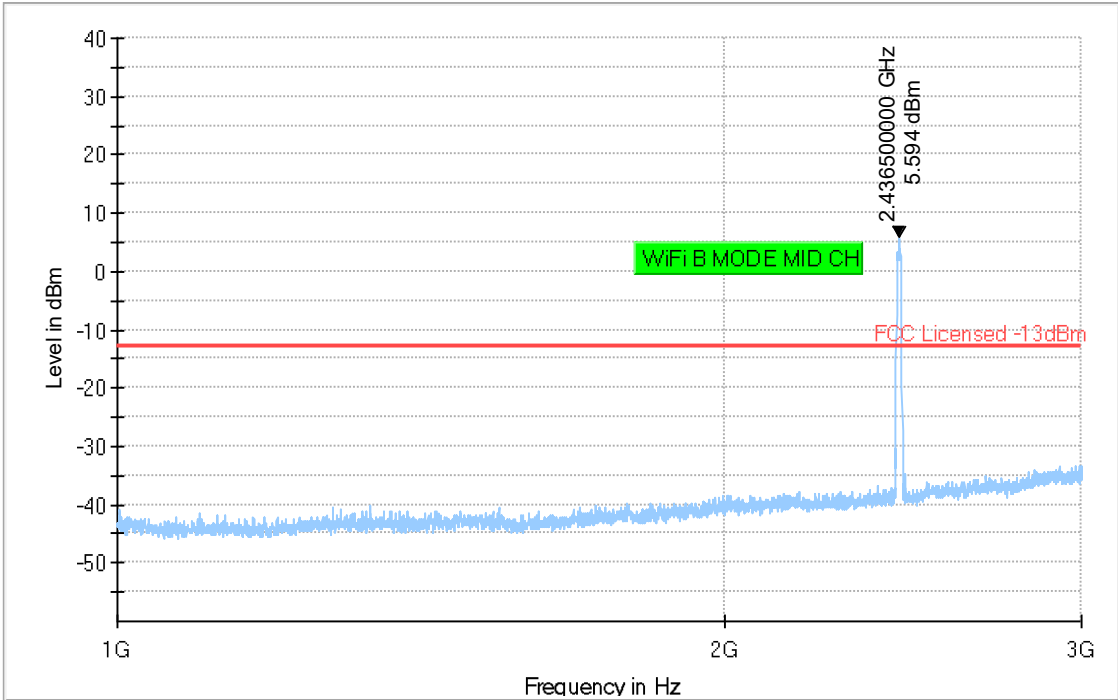
Plot # 133

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
333.335	-58.996	-13.00	46.00	500.0	100.0	116.0	V	10.0	-75.5	1.7	0.0	-77.2	16.5



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

Plot # 134

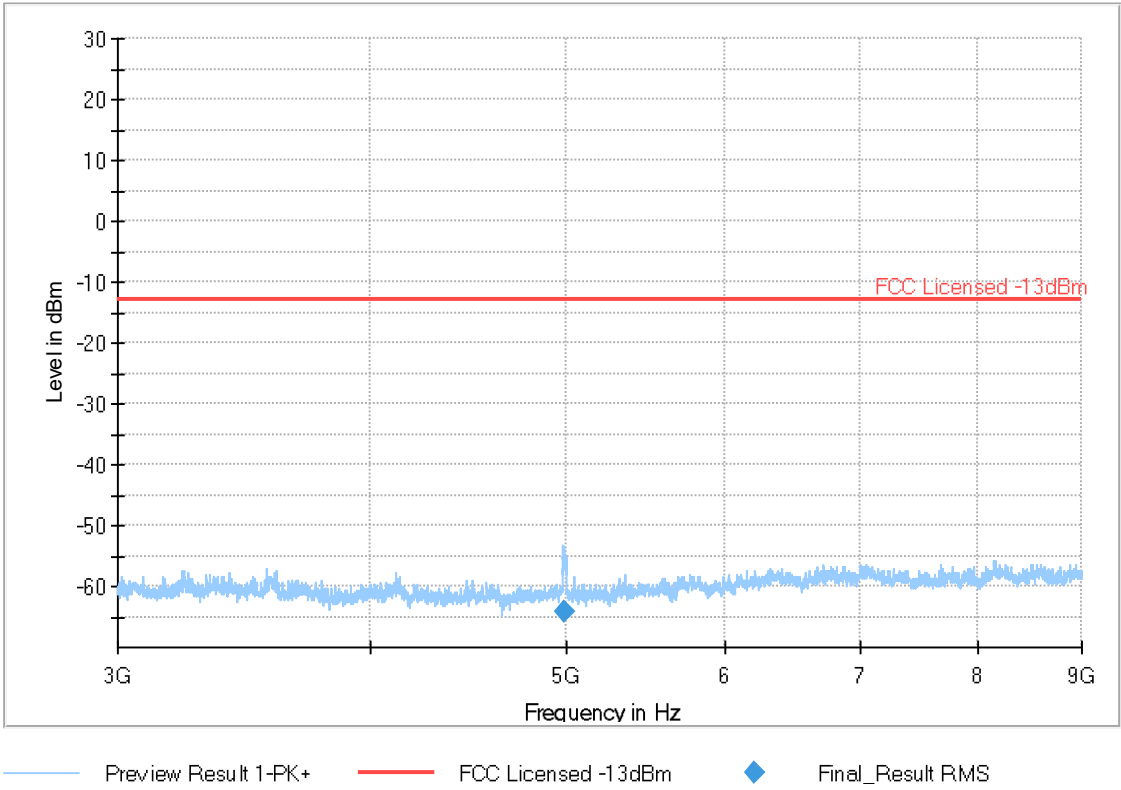


Preview Result 1-PK+ * Critical_Freqs PK+
FCC Licensed -13dBm ♦ Final_Result RMS



Plot # 135

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
4985.875	-64.033	-13.00	51.03	500.0	1000.0	169.0	H	275.0	-99.9	7.0	-45.8	-61.1	35.9



9 Test setup photos

Setup photos are included in supporting file name: "EMC_ASTRO_069_25001_FCC_22_24_27_90_Setup_photos"

10 Test Equipment and Ancillaries Used For Testing

Equipment Type	Manufacturer	Model	Serial #	Calibration Cycle	Last Calibration Date
BILOG ANTENNA	A.H. SYSTEMS	BiLA2G	569	3 Years	10/30/2023
HORN ANTENNA	EMCO	3115	00035111	3 Years	10/26/2023
HORN ANTENNA	ETS LINDGREN	3117-PA	00167061	3 Years	9/25/2023
HORN ANTENNA	ETS LINDGREN	3116C-PA	00166821	3 Years	10/26/2023
ESW.EMI TEST RECEIVER	ROHDE & SCHWARZ	ESW44	101715	3 Years	10/24/2023
DIGITAL THERMOMETER	Control Company	4410,90080-03	230712972	3 Years	10/18/2023
Signal Analyzer	R&S	FSV40	101022	3 Years	09/25/2023
Multimeter	Fluke	115	56090717MV	3 Years	09/26/2023
Software	EMC32	Version 10.50.40	-	-	-
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	1201.002K50-127068-mX	3 Years	10/2/2024

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

11 Revision History

Date	Report Name	Changes to report	Prepared by
2025-09-18	EMC_ASTRO_069_25001_FCC_22_24_27_90	Initial Version	Cheng Song
2025-09-26	EMC_ASTRO_069_25001_FCC_22_24_27_90_Rev1	Updated Sections 3.5 and 3.6 in this report.	Cheng Song

<<< The End >>>
