

FCC/IC Test Report

For:
Ooma Inc.

Model:
OOMA AIRDIAL2 DUAL MODEM

Product Description:
Ooma AirDial 2 Dual Modem

FCC ID: XFT-AIRDIAL2DM
IC: 9769A-AIRDIAL2DM

Applied Rules and Standards:
47 CFR Parts 22, 24, 27 & 90
RSS-Gen, Issue 5; RSS-130, Issue 2; RSS-132, Issue 4; RSS-133, Issue 7; RSS-139, Issue 4; and
RSS-140, Issue 1.

REPORT: EMC_OOMMA_017_25001_FCC_22_24_27_90_Rev2

DATE: 2026-09-08



IC recognized #
3462B

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1 Assessment

This report presents the host radiated spurious-emissions results for the Ooma AirDial 2 Dual Modem configurations listed in Section 8.3.4, together with the LTE Band 2 radiated EIRP antenna comparison in Section 8.2. The assessment references 47 CFR Parts 22, 24, 27, and 90 and the Canadian standards listed on the cover.

Company Name	Product Description	Model No.
Ooma Inc.	Ooma AirDial 2 Dual Modem	OOMA AIRDIAL2 DUAL MODEM

Report Authorized by:

Responsible for the Testing Laboratory:

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Date	Section	Name	Signature

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Date	Section	Name	Signature

The results in this report apply exclusively to the test item identified 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
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City/Zip Code:	Milpitas, CA 95035
Country:	USA
Telephone:	+1 (408) 586 6200
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EMC Lab Manager:	David Bare
Responsible Project Leader:	Ruby Hall

2.2 Identification of the Client

Applicant's Name:	Ooma Inc.
Street Address:	525 Almanor Avenue, Suite 200
City/Zip Code:	Sunnyvale, CA 94085
Country:	USA

2.3 Identification of the Manufacturer

Manufacturer's Name:	Ooma Inc.
Manufacturer's Address:	525 Almanor Avenue, Suite 200
City/Zip Code:	Sunnyvale, CA 94085
Country:	USA

3 Equipment Under Test (EUT)

3.1 EUT Specifications

Product Description:	Ooma AirDial 2 Dual Modem
Model Name:	OOMA AIRDIAL2 DUAL MODEM
HW Version:	HW-V3
SW Version:	V11.2
FCC ID:	XFT-AIRDIAL2DM
IC:	9769A-AIRDIAL2DM
HVIN	AIRDIAL2DM
PMN	Ooma AirDial 2 Dual Modem
Bands/Modes Supported	Cellular module Manufacturer: Quectel Wireless Solutions Co., Ltd. Model: EG95-NAXD Installed/change-ID FCC ID: XMR202008EG95NAXD Original FCC ID for referenced certification data: XMR201909EG95NAX IC: 10224A-021EG95NAXD Module capabilities: W-CDMA II/IV/V; LTE 2/4/5/12/13/25/26 Host-enabled transmit modes: LTE only.
	Cellular module Manufacturer: Quectel Wireless Solutions Co., Ltd. Models: EC25-AFXD; EC25-AFXD MINIPICIE Installed/change-ID FCC ID: XMR202008EC25AFXD Original FCC ID for referenced certification data: XMR201909EC25AFX IC: 10224A-022EC25AFXD Module capabilities: W-CDMA II/IV/V; LTE 2/4/5/12/13/14/66/71 Host-enabled transmit modes: LTE only.
Frequency Range	Host-enabled LTE uplink ranges: B2: 1850–1910 MHz; B4: 1710–1755 MHz; B5: 824–849 MHz; B12: 699–716 MHz; B13: 777–787 MHz; B14: 788–798 MHz; B25: 1850–1915 MHz; B66: 1710–1780 MHz; B71: 663–698 MHz. LTE B26 at 824–849 MHz is identified under FCC Part 22 and RSS-132. The stated host B26 range of 814.7–823.3 MHz is identified under FCC Part 90 Subpart S; licensed-channel and border-area applicability are outside this assessment. W-CDMA II/IV/V is a module capability and is not enabled in the host.
Max. declared antenna gain	External transmit antennas (MAIN paths): Quectel YECN028AA terminal-mount SMA antennas, quantity 2. Datasheet V2.2 peak gains: 617–960 MHz, 0.5 dBi free space / 1.3 dBi on evaluation board; 1710–2170 MHz, 2.0 dBi free space / 3.7 dBi on evaluation board.
	Internal receive-diversity antennas (DIV paths): Quectel YF0020FA flex antennas, quantity 2. The DIV paths are receive-only; their antenna gain is not used for the transmit assessment.
Other Radio Functions:	Both cellular modules are identified above. BLE hardware is disabled in the motherboard processor software. NFC is implemented as a passive tag. Wi-Fi is not applicable.
Power Supply/ Rated Operating Voltage Range	Minimum: 9 Vdc; nominal: 12 Vdc; maximum: 33 Vdc
Operating Temperature Range	0 °C to 40 °C

Sample Revision	☒ Production ☐ Pre-Production
EUT Dimensions	300 mm × 60 mm × 200 mm
EUT Diameter	< 60 cm
Note: EUT specifications were provided by the client.	

3.2 EUT Sample Details

EUT #	Model Number	HW Version	SW Version	Comments
1	OOMA AIRDIAL2 DUAL MODEM	HW-V3	V11.2	Radiated sample

Note: information provided by the customer.

3.3 Accessory Equipment Details

AE #	Type	Electrical Supply	Connection	Use
1	AC/DC power adapter	120 Vac input; 12 Vdc output	EUT power input	Host radiated testing

3.4 Test Sample Configuration

Set-up #	EUT / AE used for set-up	Comments
1	EUT #1 + AE #1	EUT powered from 120 Vac through the 12 Vdc adapter for host radiated testing.

3.5 Operating Modes

Mode of Operation	Description of Operating modes	Additional Information
Op. 1	Simultaneous LTE transmission by both cellular modules	Both cellular modules transmitted in the LTE band pairs listed in Section 8.3.4. The plot series are labeled Low, Mid, or High. A cellular base-station simulator supported operation, and the EUT was powered from 120 Vac through its 12 Vdc adapter.
Op. 2	Idle / RX	The EUT operated in its normal functional idle/receive configuration. Both cellular modules were in receive mode; BLE was disabled in software, and NFC is a passive tag.

3.6 Justification for Mode of Operation

The radiated assessment covers the simultaneous-transmit configurations listed in Section 8.3.4. The Low, Mid, and High labels identify the channel varied in each combination; the companion band remains at Mid, as specified in the subtitles in Section 8.3.5. For LTE B26 + LTE B14, one series varies B26 and the other varies B14. The LTE B12 + LTE B2 results apply to the host combination without assignment to an individual module. Results are not extended to unlisted band pairs or scan ranges.

The qualification configuration uses the Quectel YECN028AA external transmit antennas specified in Section 3.1. The LTE Band 2 comparison in Section 8.2 records higher peak and RMS EIRP for YECN028AA than for OMB.6960 in both horizontal and vertical configurations. OMB.6960 is an engineering-only antenna and is excluded from the

qualification configuration. Reported radiated results represent the maximum observed over the measured polarizations and EUT orientations.

4 **Subject of Investigation**

The investigation comprises host radiated spurious-emissions measurements for the configurations in Section 8.3.4 and the LTE Band 2 radiated EIRP antenna comparison in Section 8.2. The applicable FCC and Canadian provisions are identified in Sections 7 and 8.3.2. Referenced module output-power values in Section 8.1 are distinguished from measurements of the assembled host.

5 **Measurement Uncertainty**

The expanded measurement uncertainties below are expressed in decibels and correspond to approximately 95% confidence using a coverage factor of $k = 2$.

Radiated measurement

Measurement System		EMC-1	EMC-2
Conducted emissions (mains port)	150 kHz – 30 MHz	2.45 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**

12/19/2025 - 12/30/2025

5.3 **Decision Rule**

CETECOM Inc. applies the simple acceptance rule described in ILAC-G8:09/2019, Section 4.2.1.

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.

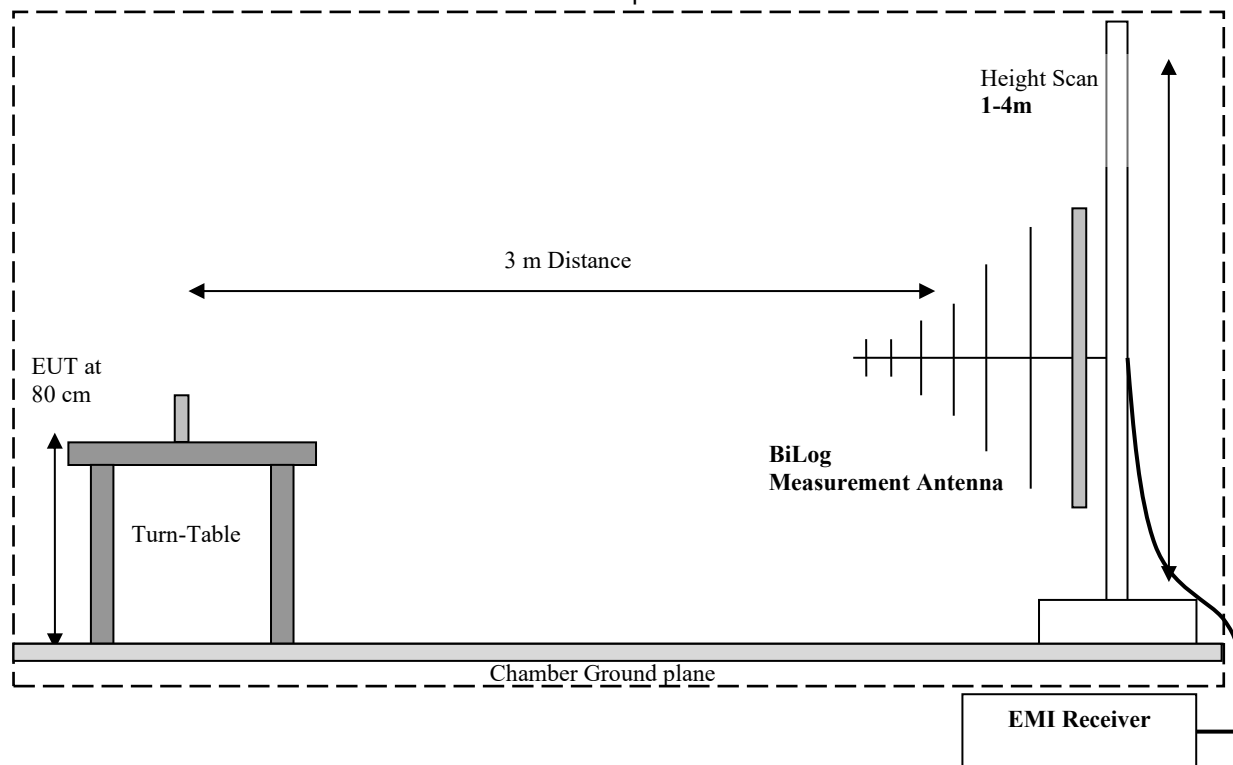
6 Measurement Procedures

The host radiated spurious-emissions procedure follows the references identified in Section 8.3.1.

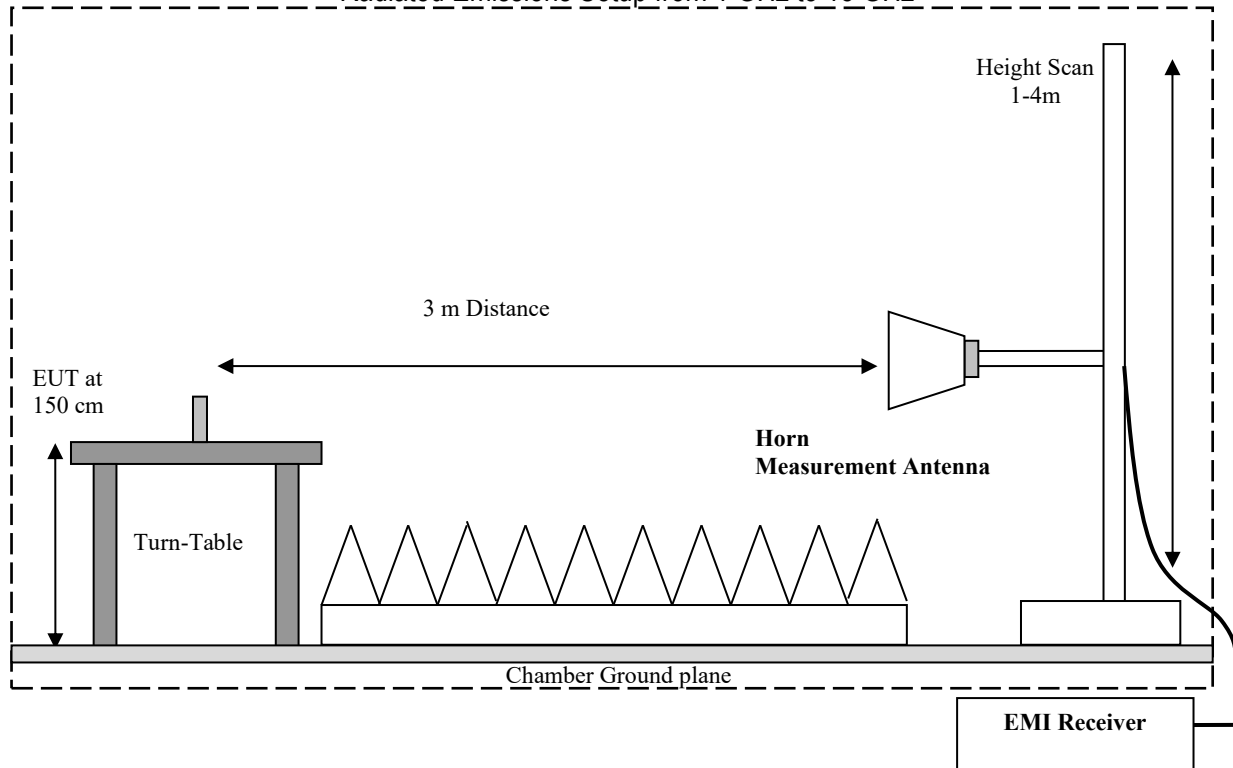
6.1 Radiated Measurement

- Exploratory measurements use R&S EMC32 software to combine 16 sweeps: four turntable positions, two orthogonal EUT orientations, and both antenna polarizations. A peak detector is used, and the software retains the maximum trace and the associated settings for each frequency point.
- The software selects up to 10 emission peaks for final measurement while avoiding repeated selection of the same broadband emission.
- Selected emissions are maximized by a 90° turntable search and a frequency search. Antenna height is varied from 1 m to 4 m for the 3 m measurements; the 1 m setup above 18 GHz is shown in the corresponding diagram.
- The procedure is applied to the recorded simultaneous-transmit configurations listed in Section 8.3.4.
- When no emission is resolved above the noise floor, the maximum exploratory trace is reported without a discrete final marker result.
- The reported radiated spurious-emissions scans start at 30 MHz. Biconilog and horn antennas are used over the ranges identified in Section 8.3.4.

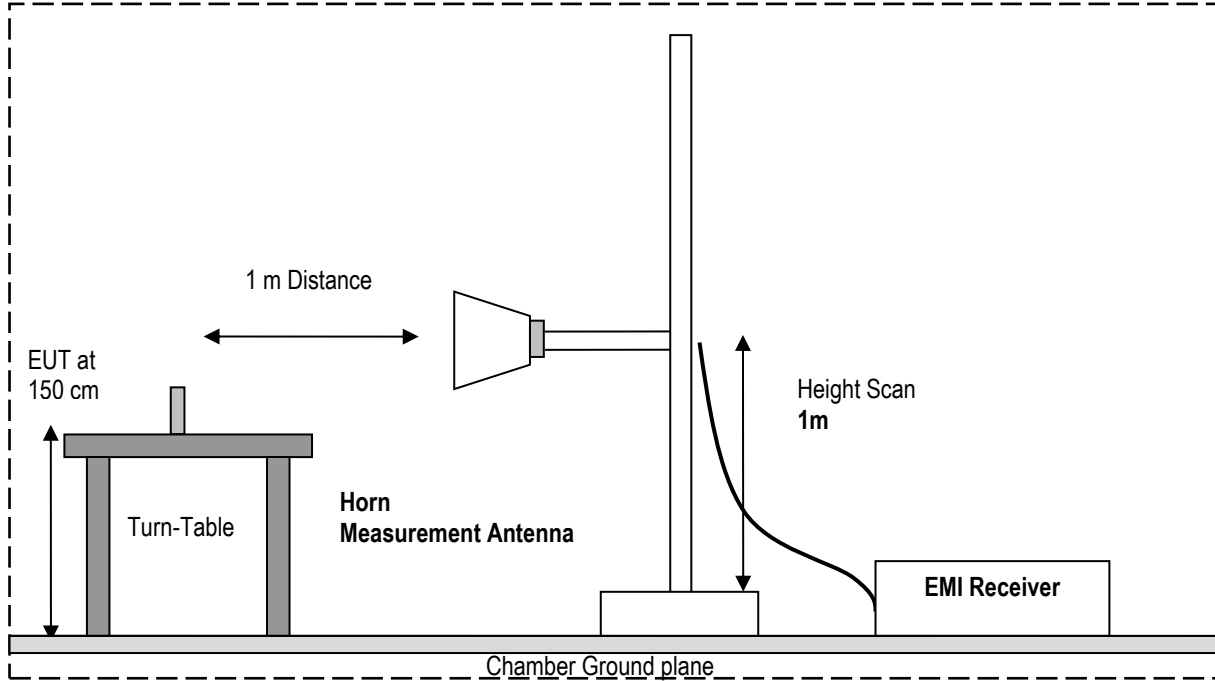
Radiated Emissions Setup from 30 MHz to 1 GHz



Radiated Emissions Setup from 1 GHz to 18 GHz



Radiated Emissions Setup above 18 GHz



6.2 Field Strength and Corrected Level Calculations

Field strength is calculated from the spectrum analyzer or receiver reading using the following quantities:

- Receiver reading in dBμV
- Receiving-antenna cable loss in dB
- Antenna factor in dB/m

For the illustrative field-strength calculation below, the corrections are applied as follows:

$$\text{Field strength (dB}\mu\text{V/m)} = \text{receiver reading (dB}\mu\text{V)} + \text{cable loss (dB)} + \text{antenna factor (dB/m)}$$

Example:

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

The dBm result tables in Sections 8.2 and 8.3 use the exported total correction: reported level (dBm) = Raw Rec (dBμV) + Corr. (dB). Where the component columns are present, Corr. is the sum of Sig Path, Preamp, and Trd Corr.; it includes the conversion to the reported level reference. For example, the vertical YECN028AA RMS record gives 115.0 – 90.8 = 24.2 dBm using the displayed values, consistent with the reported 24.244 dBm after rounding. Full-precision results are retained in the tables. The field-strength equation alone is not an EIRP or substitution-power equation.

7 Measurement Results Summary

7.1 FCC Part 22 / RSS-132

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result / Scope
§§2.1046, 22.913; RSS-132 §5.4	RF Output Power	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§2.1047(d); RSS-132 §5.2	Modulation Characteristics	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§§2.1055, 22.355; RSS-132 §5.3	Frequency Stability	Extreme Temperature and Voltage	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§2.1049(h); RSS-Gen §6.7	Occupied Bandwidth	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§§2.1051, 22.917; RSS-132 §5.5	Band Edge Compliance	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§§2.1051, 22.917; RSS-132 §5.5	Conducted Spurious Emissions	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§§2.1053, 22.917; RSS-132 §5.5	Radiated Spurious Emissions	Nominal	Op. 1	☒	☐	☐	☐	Within general -13 dBm criterion; see Section 8.3.4.

Note 1: NA = not applicable; NP = not performed on the host. An unselected Pass/Fail box indicates that no overall conformity decision is made for that row.

Note 2: Radiated spurious-emissions results are assessed against the plotted general -13 dBm criterion within Section 8.3.4. Referenced module data in Section 8.1 and the comparative Band 2 EIRP data in Section 8.2 do not establish compliance for the other host test requirements.

7.2 FCC Part 24 / RSS-133

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result / Scope
§§2.1046, 24.232; RSS-133 §5.5	RF Output Power	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§2.1047(d); RSS-133 §5.3	Modulation Characteristics	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§2.1055; RSS-133 §5.4	Frequency Stability	Extreme Temperature and Voltage	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§2.1049(h); RSS-Gen §6.7	Occupied Bandwidth	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§§2.1051, 24.238; RSS-133 §5.6	Band Edge Compliance	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§§2.1051, 24.238; RSS-133 §5.6	Conducted Spurious Emissions	Nominal	-	☐	☐	☐	☒	Not performed on

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result / Scope
								host; see Section 8.1.
§§2.1053, 24.238; RSS-133 §5.6	Radiated Spurious Emissions	Nominal	Op. 1	☒	☐	☐	☐	Within general -13 dBm criterion; see Section 8.3.4.

Note 1: NA = not applicable; NP = not performed on the host. An unselected Pass/Fail box indicates that no overall conformity decision is made for that row.

Note 2: Radiated spurious-emissions results are assessed against the plotted general -13 dBm criterion within Section 8.3.4. Referenced module data in Section 8.1 and the comparative Band 2 EIRP data in Section 8.2 do not establish compliance for the other host test requirements.

7.3 FCC Part 27 / RSS-130 / RSS-139

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result / Scope
§§2.1046, 27.50(b)–(d); RSS-130 §4.6 / RSS-139 §5.5	RF Output Power	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§2.1047(d); RSS-130 §4.2 / RSS-139 §5.3	Modulation Characteristics	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§2.1055; RSS-130 §4.5 / RSS-139 §5.4	Frequency Stability	Extreme Temperature and Voltage	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§2.1049(h); RSS-Gen §6.7	Occupied Bandwidth	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§§2.1051, 27.53(c),(g),(h); RSS-130 §§4.7.1–4.7.2 / RSS-139 §5.6	Band Edge Compliance	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§§2.1051, 27.53(c),(g),(h); RSS-130 §§4.7.1–4.7.2 / RSS-139 §5.6	Conducted Spurious Emissions	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§§2.1053, 27.53(c),(g),(h); RSS-130 §§4.7.1–4.7.2 / RSS-139 §5.6	Radiated Spurious Emissions	Nominal	Op. 1	☒	☐	☐	☐	Within general -13 dBm criterion; see Section 8.3.4.

Note 1: NA = not applicable; NP = not performed on the host. An unselected Pass/Fail box indicates that no overall conformity decision is made for that row.

Note 2: Radiated spurious-emissions results are assessed against the plotted general -13 dBm criterion within Section 8.3.4. Referenced module data in Section 8.1 and the comparative Band 2 EIRP data in Section 8.2 do not establish compliance for the other host test requirements.

7.4 FCC Part 90 / RSS-140

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result / Scope
§§2.1046, 90.542; RSS-140 §4.3	RF Output Power ERP	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§2.1047(d); RSS-140 §4.1	Modulation Characteristics	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§§2.1055, 90.213(a); RSS-140 §4.2	Frequency Stability	Extreme Temperature and Voltage	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§2.1049(h); RSS-Gen §6.7	Occupied Bandwidth	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§§2.1051, 90.543(e),(f); RSS-140 §4.4	Band Edge Compliance	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§§2.1051, 90.543(e),(f); RSS-140 §4.4	Emission Mask	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§§2.1051, 90.543(e),(f); RSS-140 §4.4	Conducted Spurious Emissions	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.
§§2.1053, 90.543(e),(f); RSS-140 §4.4	Radiated Spurious Emissions	Nominal	Op. 1	☒	☐	☐	☐	Within general -13 dBm criterion; see Section 8.3.4.
§§90.209(b)(7), 90.635(b), 90.691	LTE B26 Part 90 Subpart S applicability and emission mask	Nominal	-	☐	☐	☐	☒	Not performed on host; see Section 8.1.

Note 1: NA = not applicable; NP = not performed on the host. An unselected Pass/Fail box indicates that no overall conformity decision is made for that row.

Note 2: Radiated spurious-emissions results are assessed against the plotted general -13 dBm criterion within Section 8.3.4. Referenced module data in Section 8.1 and the comparative Band 2 EIRP data in Section 8.2 do not establish compliance for the other host test requirements.

8 Test Result Data

8.1 Referenced Module Output Power Data

Module	LTE band	Source max conducted power (dBm)	Referenced Report
EG95-NAXD	5	23.97	R2006A0378-R4, §5.1, p.11
EG95-NAXD	26 (Part 22, 824–849 MHz)	24.27	R2006A0378-R1, §5.1, p.10
EG95-NAXD	26 (Part 90S module source 814–824 MHz; host/FCC 731 range 814.7–823.3 MHz)	24.12	R2006A0378-R3, §5.1, p.11
EG95-NAXD	2	23.95	R2006A0378-R5, §5.1, p.12
EG95-NAXD	25	23.99	R2006A0378-R2, §5.1, p.13
EG95-NAXD	4	24.06	R2006A0378-R6, §5.1, p.12
EG95-NAXD	12	23.91	R2006A0378-R6, §5.1, p.14
EG95-NAXD	13	23.78	R2006A0378-R6, §5.1, p.16
EC25-AFXD	5	23.11	EFTA25080400-IE-02-R17, §6.1, p.22
EC25-AFXD	2	23.13	EFTA25080400-IE-02-R18, §6.1, p.27
EC25-AFXD	4	22.87	EFTA25080400-IE-02-R19, §6.1, p.25
EC25-AFXD	12	22.99	EFTA25080400-IE-02-R19, §6.1, p.33
EC25-AFXD	13	23.15	EFTA25080400-IE-02-R19, §6.1, p.36
EC25-AFXD	14	23.36	EFTA25080400-IE-02-R20V1, §6.1, p.24
EC25-AFXD	66	23.04	EFTA25080400-IE-02-R19, §6.1, p.39
EC25-AFXD	71	23.03	EFTA25080400-IE-02-R19, §6.1, p.45

The values above are conducted-power results from the referenced module reports. Host LTE Band 2 radiated EIRP measurements are presented separately in Section 8.2. The module values are not measurements of host conducted power and are not used as host conformity results for the tests marked NP in Section 7.

Module / jurisdiction	Referenced Report Chain	Use in This Report
EG95 / FCC	R2006A0378-R1 through R6 → original R1907A0407-R1 through R6V1	Variant-report data; no independent reassessment of the original certification tests.
EC25 / FCC	EFTA25080400-IE-02-R17 through R20V1 → original R2203A0238-R1 through R4	C2PC/variant-report data; no independent reassessment of the original certification tests.
EG95 / ISED	R2106A0544-R1 through R5 (2021)	Historical module-report reference; no current host ISED conformity determination.
EC25 / ISED	R2203A0239-R1V1 through R3V1 (2022)	No-test variant reference; no current host ISED conformity determination.

The installed/change-in-ID modules are XMR202008EG95NAXD and XMR202008EC25AFXD; the referenced original FCC IDs are XMR201909EG95NAX and XMR201909EC25AFX. Module-data references are retained for traceability. This report does not claim a complete requirement-by-requirement reuse assessment under KDB 996369 D02, Module Q&A, Answer 1(b)(4), including sub-note 4, or a current Canadian validation of the referenced module data.

8.2 Host Radiated EIRP Antenna Comparison

LTE Band 2 measurements compare the Quectel YECN028AA (plot identifier 28AA) with the engineering antenna OMB.6960. In the recorded horizontal configuration, YECN028AA gives 28.109 dBm peak and 22.903 dBm RMS, compared with 21.346 dBm peak and 16.680 dBm RMS for OMB.6960. In the vertical configuration, the corresponding results are 29.129/24.244 dBm and 20.630/16.002 dBm. YECN028AA has the higher recorded EIRP in both configurations. These results support the antenna comparison for the measured Band 2 conditions; they are not an all-band host power-compliance assessment.

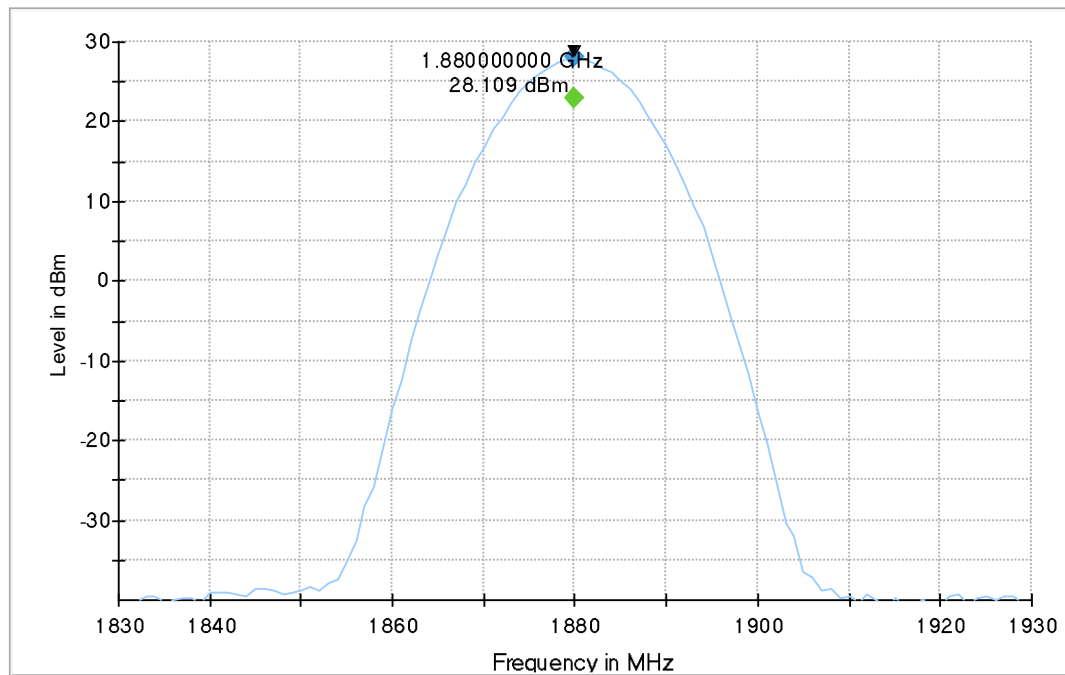
EIRP Comparison 1 — LTE Band 2, YECN028AA, Horizontal

Final Result

Frequency (MHz)	MaxPeak (dBm)	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)
1880.000	---	22.903	---	---	500.0	50000.0	173.0	H	99.0	-90.8	-22.6	0.0	-68.2
1880.000	28.109	---	---	---	500.0	50000.0	173.0	H	99.0	-90.8	-22.6	0.0	-68.2

Additional Receiver Data

Frequency (MHz)	Raw Rec (dBμV)	Comment
1880.000	113.7	
1880.000	118.9	



◆ Preview Result 2-RMS
◆ Preview Result 1-PK+
◆ Final_Result PK+
◆ Final_Result RMS

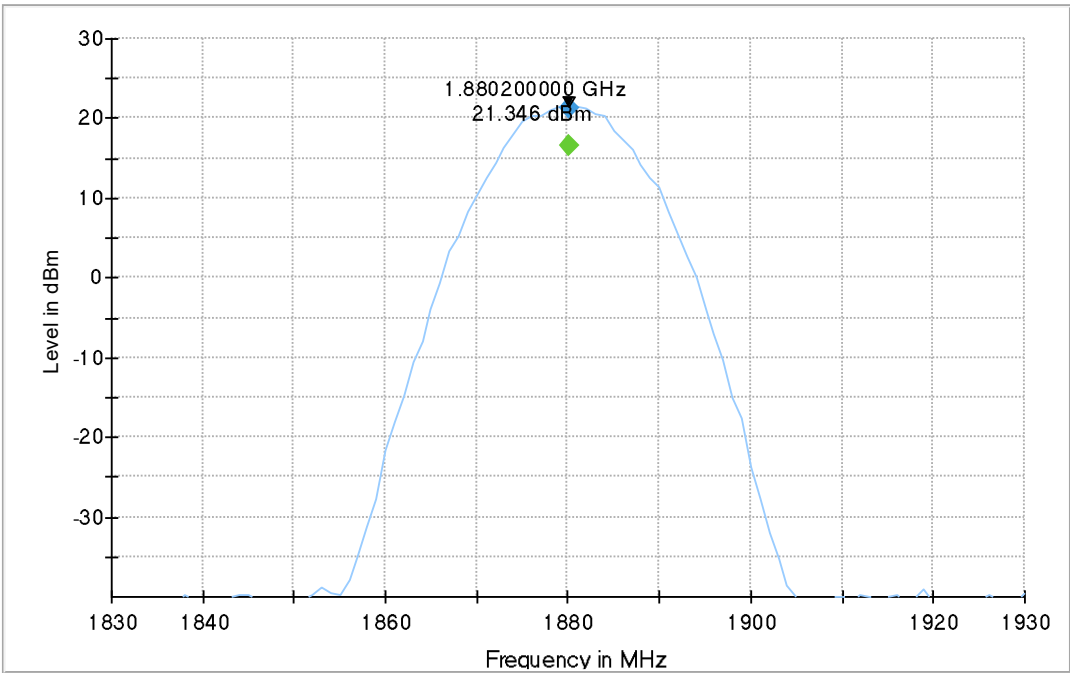
EIRP Comparison 2 — LTE Band 2, OMB.6960, Horizontal

Final Result

Frequency (MHz)	MaxPeak (dBm)	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)
1880.200	---	16.680	---	---	500.0	50000.0	168.0	H	159.0	-90.8	-22.6	0.0	-68.2
1880.200	21.346	---	---	---	500.0	50000.0	168.0	H	159.0	-90.8	-22.6	0.0	-68.2

Additional Receiver Data

Frequency (MHz)	Raw Rec (dBμV)	Comment
1880.200	107.5	
1880.200	112.1	



Preview Result 2-RMS
Final Result PK+

Preview Result 1-PK+
Final Result RMS

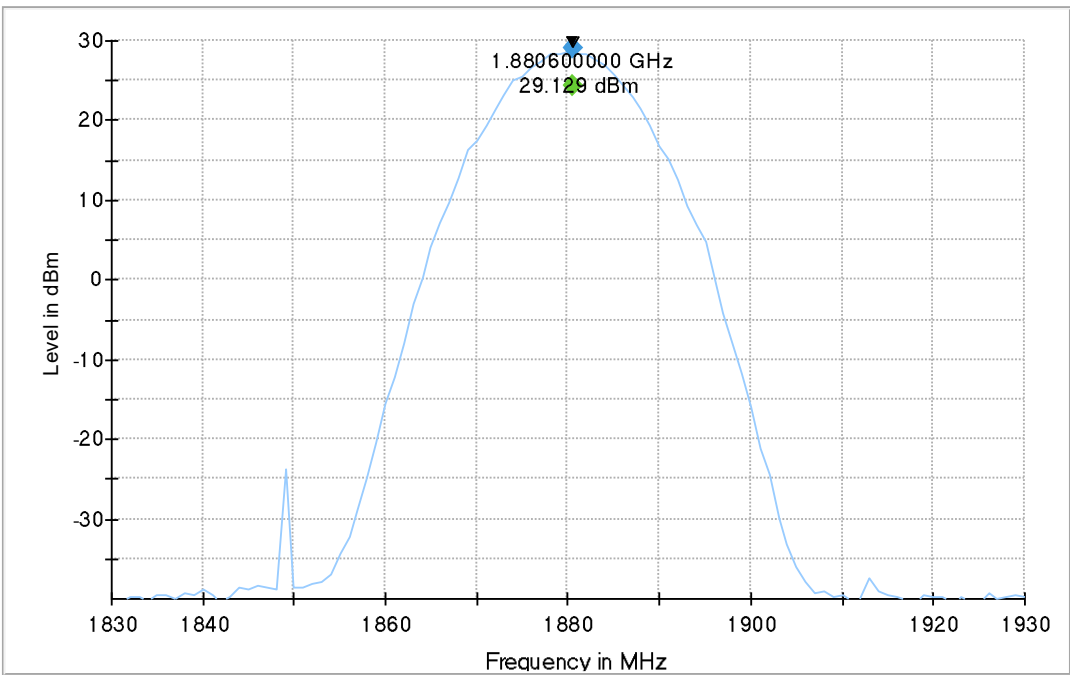
EIRP Comparison 3 — LTE Band 2, YECN028AA, Vertical

Final Result

Frequency (MHz)	MaxPeak (dBm)	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)
1880.600	---	24.244	---	---	500.0	50000.0	119.0	V	71.0	-90.8	-22.6	0.0	-68.2
1880.600	29.129	---	---	---	500.0	50000.0	119.0	V	71.0	-90.8	-22.6	0.0	-68.2

Additional Receiver Data

Frequency (MHz)	Raw Rec (dBμV)	Comment
1880.600	115.0	
1880.600	119.9	

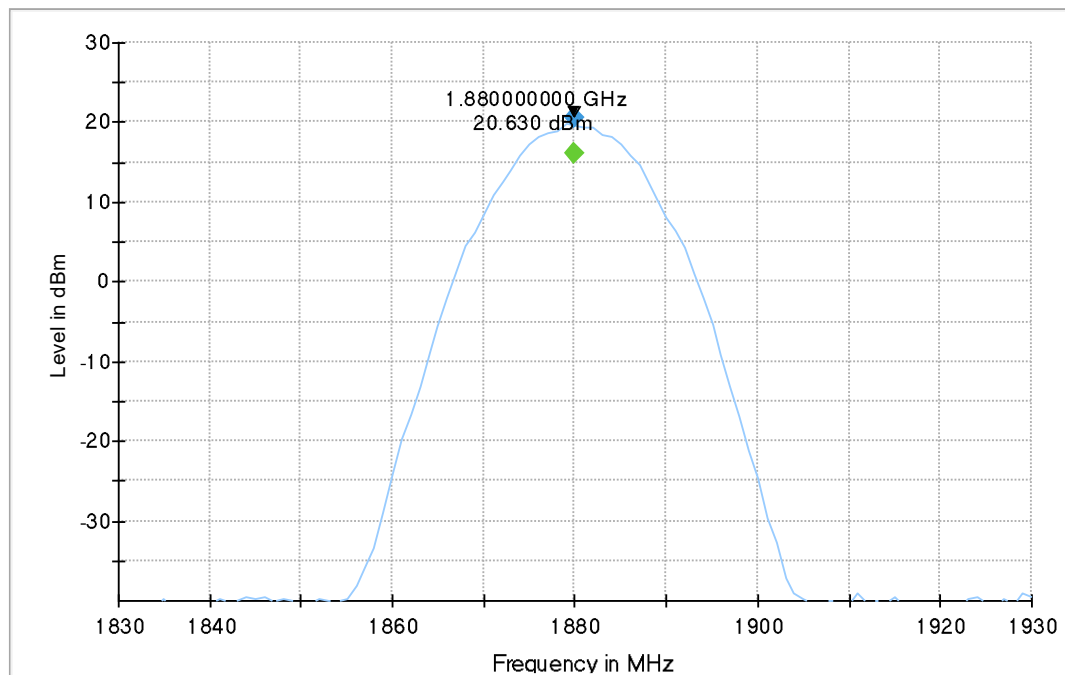


EIRP Comparison 4 — LTE Band 2, OMB.6960, Vertical**Final Result**

Frequency (MHz)	MaxPeak (dBm)	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)
1880.000	---	16.002	---	---	500.0	50000.0	168.0	V	173.0	-90.8	-22.6	0.0	-68.2
1880.000	20.630	---	---	---	500.0	50000.0	168.0	V	173.0	-90.8	-22.6	0.0	-68.2

Additional Receiver Data

Frequency (MHz)	Raw Rec (dBμV)	Comment
1880.000	106.8	
1880.000	111.4	



Preview Result 2-RMS Preview Result 1-PK+
◆ Final_Result PK+ ◆ Final_Result RMS

8.3 Radiated Spurious Emissions

8.3.1 Measurement Method

Measurements use FCC KDB 971168 D01, Power Meas License Digital Systems, v03r01, and ANSI/TIA-603-E-2016. The following settings describe exploratory sweeps. Final detector type, measurement time, and bandwidth are identified in the individual result tables.

Exploratory Analyzer Settings for FCC Part 22

Frequency Range	30 MHz – 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

Exploratory Analyzer Settings for FCC Part 24, Part 27, and Part 90

Frequency Range	30 MHz – 1 GHz	1 – 2.7 GHz	2.7 – 18 GHz	18 – 22 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

8.3.2 Emission Limits

8.3.2.1 FCC Requirements

The FCC provisions for the general -13 dBm radiated spurious-emissions assessment are §§2.1053 and 22.917(a), §§2.1053 and 24.238(a), §§27.53(c)(2), (g), and (h), and §90.543(e), as applicable to the tested band combinations within the scope defined in Section 1. For the general attenuation requirement, P is transmitter power in watts: $30 + 10 \log_{10}(P) - [43 + 10 \log_{10}(P)] = -13$ dBm. Band-specific provisions and their measurement bandwidths take precedence where applicable.

8.3.2.2 Canadian Requirements

The Canadian provisions for the general radiated spurious-emissions assessment are RSS-132, Issue 4, §5.5; RSS-133, Issue 7, §5.6; RSS-139, Issue 4, §5.6; RSS-130, Issue 2, §§4.7.1–4.7.2; and RSS-140, Issue 1, §4.4, as applicable within the scope defined in Section 1. The scans in Section 8.3.5 are evaluated against the general -13 dBm criterion.

8.3.3 Test Conditions and Setup

Ambient Temperature (°C)	EUT Set-Up #	EUT operating mode	Power Input
22	1	Op. 1	120 Vac via 12 Vdc adapter

8.3.4 Measurement Results

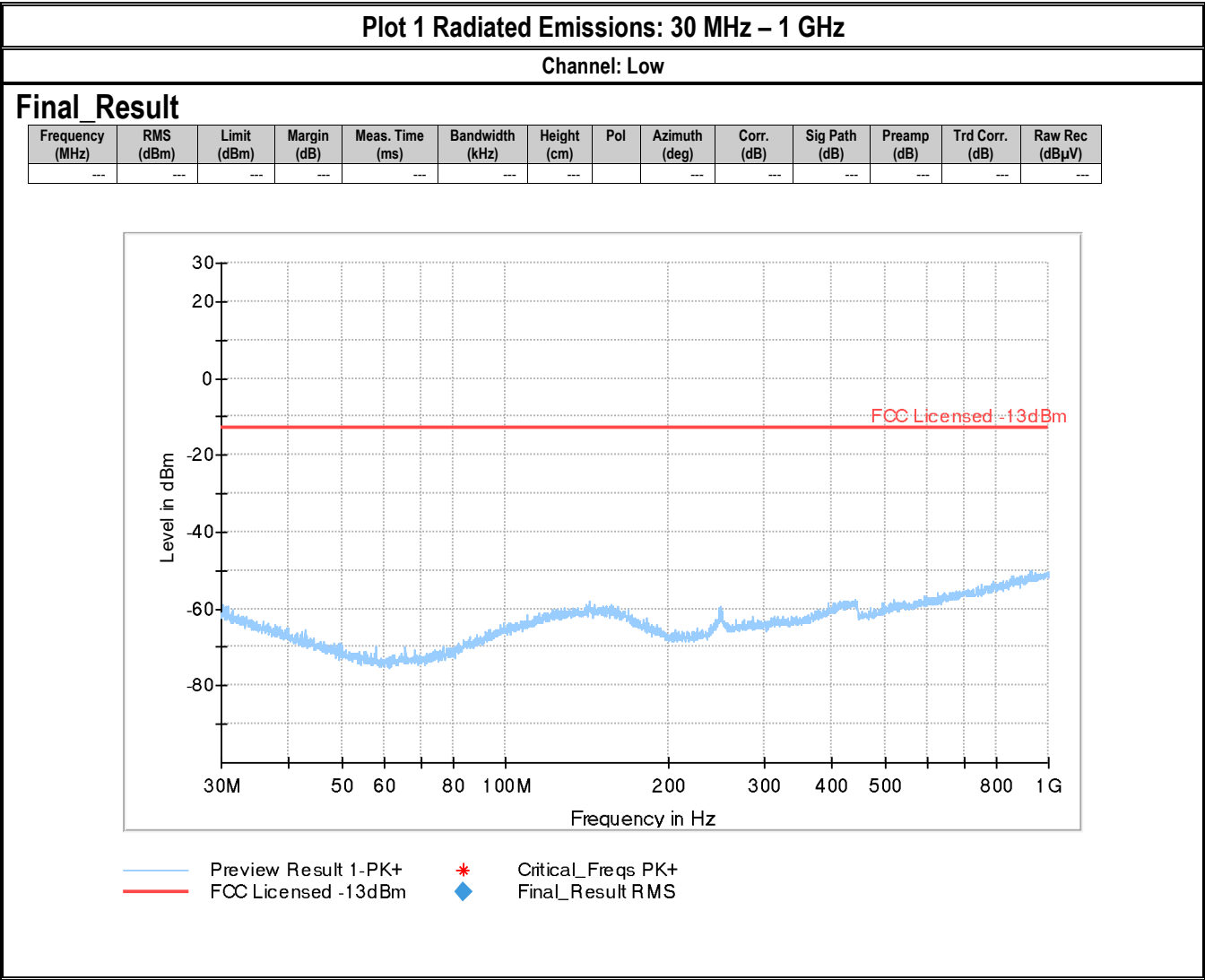
Plot #	Varied-Band Channel	Simultaneous LTE Bands	Plotted Scan Range	General Criterion (dBm)	Plot Subsection
1-4	Low	EG95 B25 + EC25 B66 (Mid)	30 MHz – 22 GHz	-13	8.3.5.1
5-8	Mid	EG95 B25 + EC25 B66 (Mid)	30 MHz – 22 GHz	-13	8.3.5.1
9-12	High	EG95 B25 + EC25 B66 (Mid)	30 MHz – 22 GHz	-13	8.3.5.1
13-15	Low	EG95 B26 + EC25 B14 (Mid)	30 MHz – 9 GHz	-13	8.3.5.2
16-18	Mid	EG95 B26 + EC25 B14 (Mid)	30 MHz – 9 GHz	-13	8.3.5.2
19-21	High	EG95 B26 + EC25 B14 (Mid)	30 MHz – 9 GHz	-13	8.3.5.2
22-24	Low	EG95 B26 (Mid) + EC25 B14	30 MHz – 9 GHz	-13	8.3.5.3
25-27	Mid	EG95 B26 (Mid) + EC25 B14	30 MHz – 9 GHz	-13	8.3.5.3
28-30	High	EG95 B26 (Mid) + EC25 B14	30 MHz – 9 GHz	-13	8.3.5.3
31-33	Low	LTE B12 + LTE B2 (Mid)	30 MHz – 18 GHz	-13	8.3.5.4
34-36	Mid	LTE B12 + LTE B2 (Mid)	30 MHz – 18 GHz	-13	8.3.5.4
37-39	High	LTE B12 + LTE B2 (Mid)	30 MHz – 18 GHz	-13	8.3.5.4
40-42	Low	EG95 B13 + EC25 B66 (Mid)	30 MHz – 18 GHz	-13	8.3.5.5
43-45	Mid	EG95 B13 + EC25 B66 (Mid)	30 MHz – 18 GHz	-13	8.3.5.5
46-48	High	EG95 B13 + EC25 B66 (Mid)	30 MHz – 18 GHz	-13	8.3.5.5

All tabulated emission levels are below the plotted -13 dBm criterion. The smallest reported margin is 27.30 dB (-40.302 dBm at 3825.250 MHz, Plot 11).

The results apply to the configurations and scan ranges listed above. LTE B4, B5, and B71 and unlisted band pairs are outside the reported host scan set. Module assignments are stated where the supported bands make them unambiguous. The channel combinations are identified in Section 8.3.5.

8.3.5 Measurement Plots

8.3.5.1 LTE Band 25 (Low/Mid/High) + LTE Band 66 (Mid)

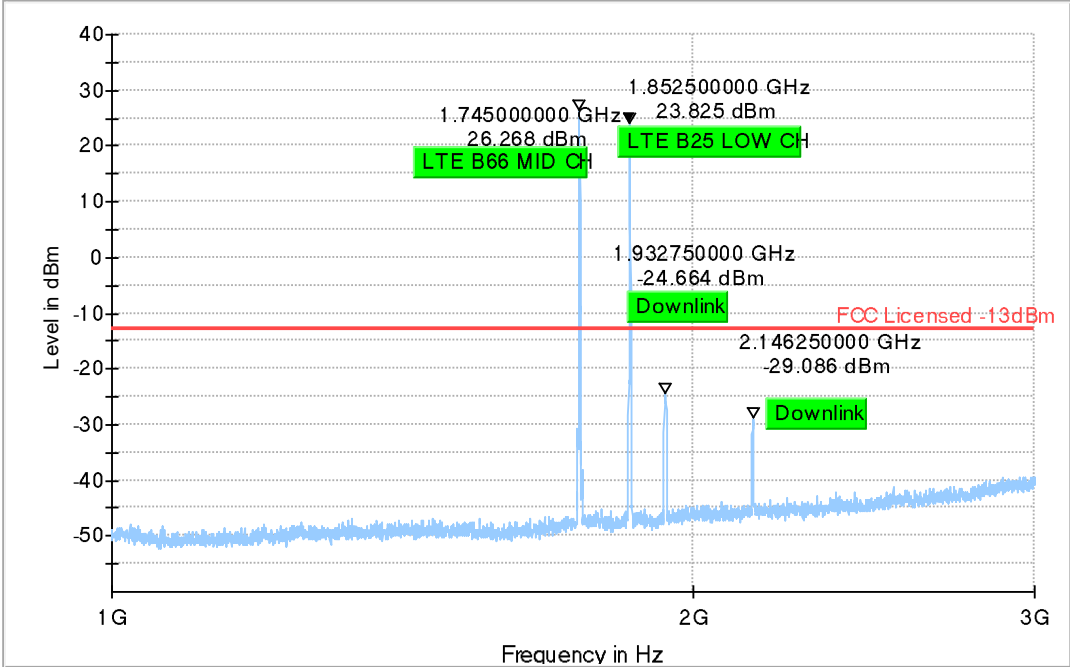


Plot 2 Radiated Emissions: 1 GHz – 3 GHz

Channel: Low

Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
---	---	---	---	---	---	---	---	---	---	---	---	---	---



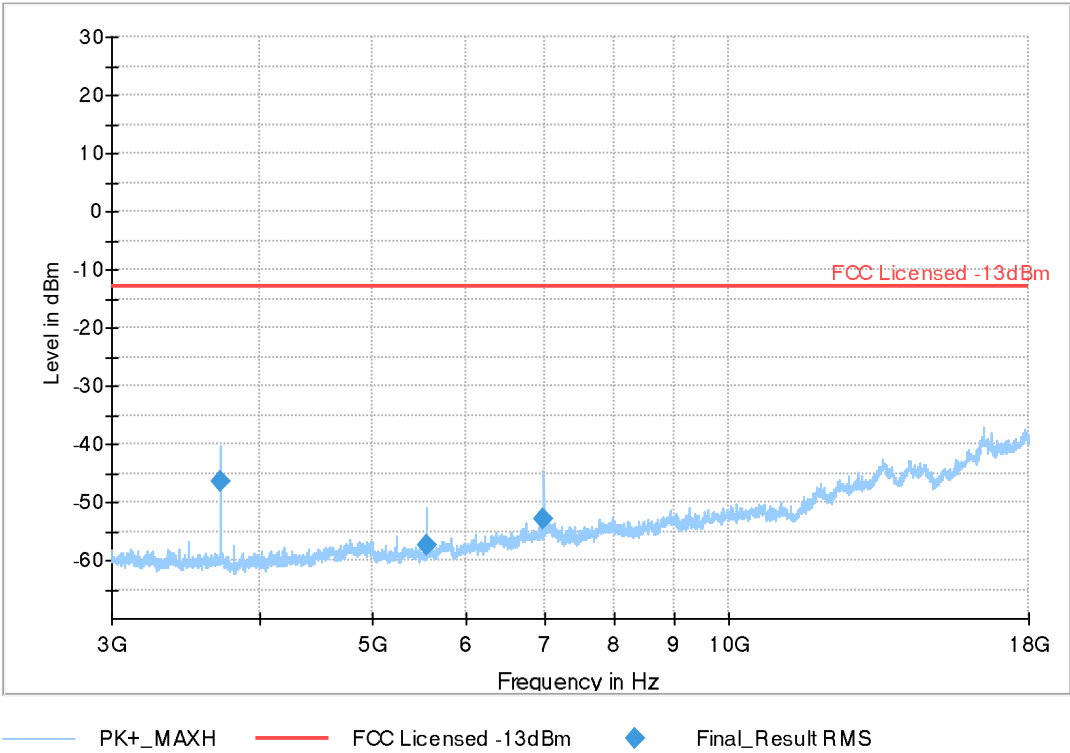
Preview Result 1-PK+ Critical_Freqs PK+
FCC Licensed -13dBm Final_Result RMS

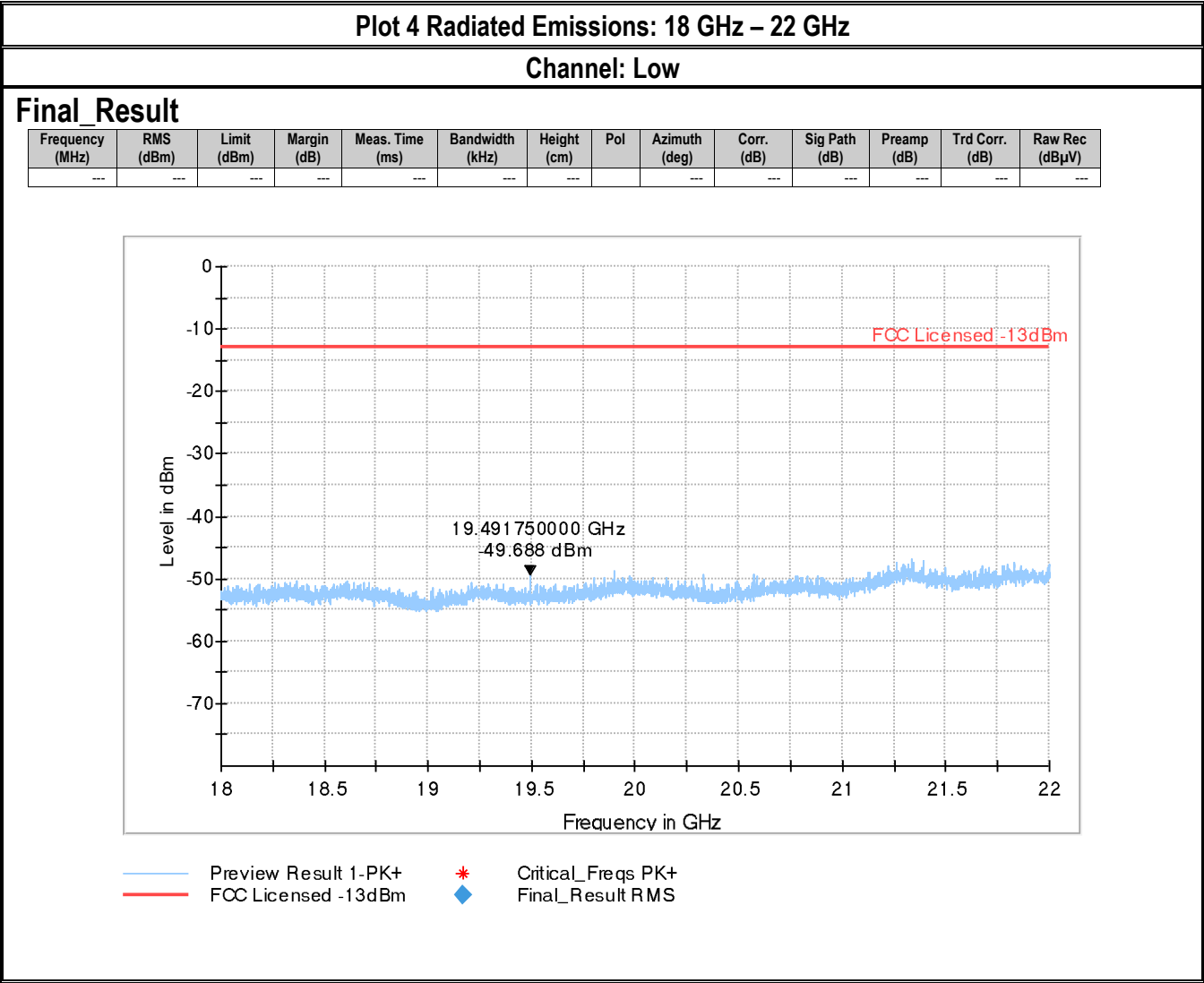
Plot 3 Radiated Emissions: 3 GHz – 18 GHz

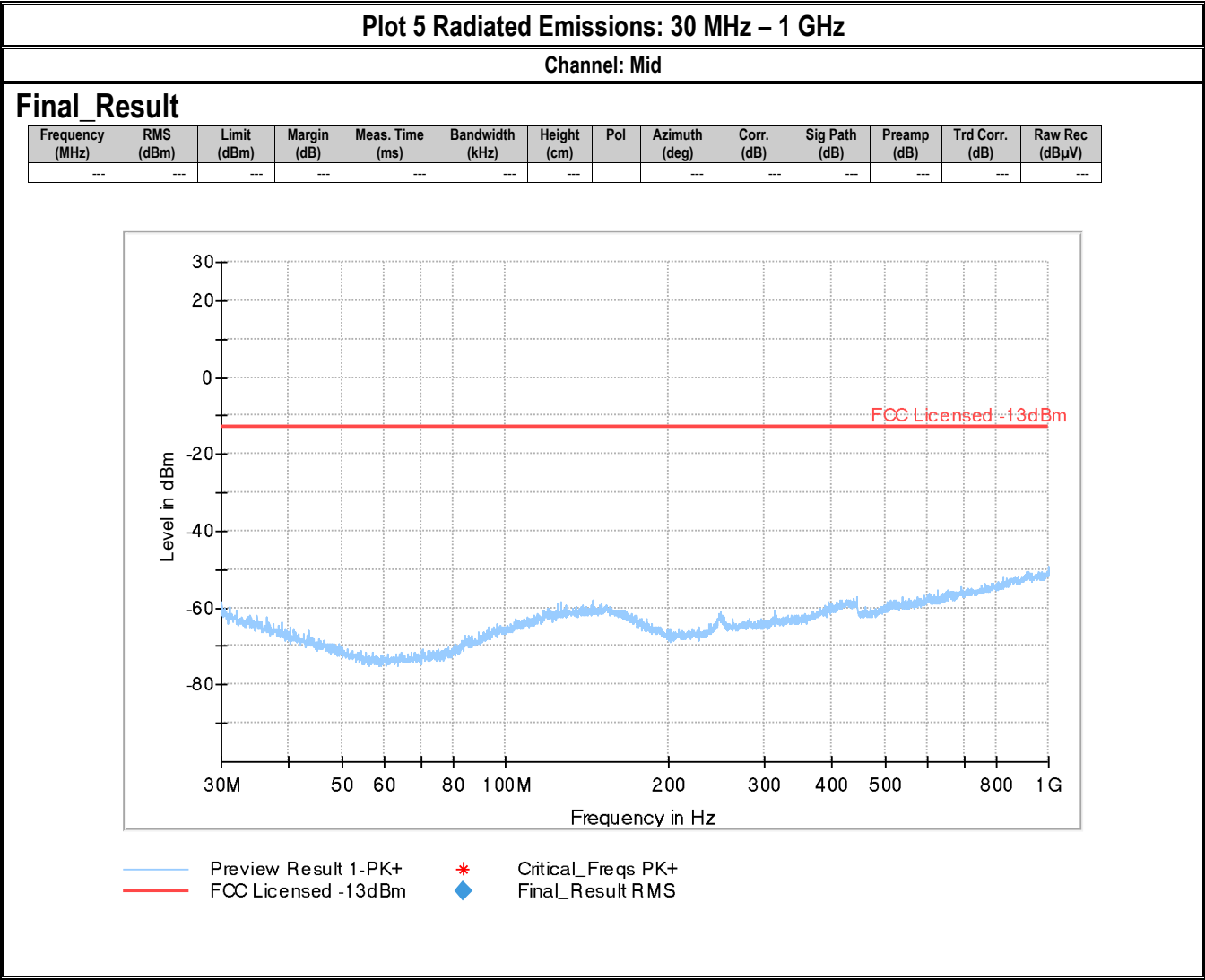
Channel: Low

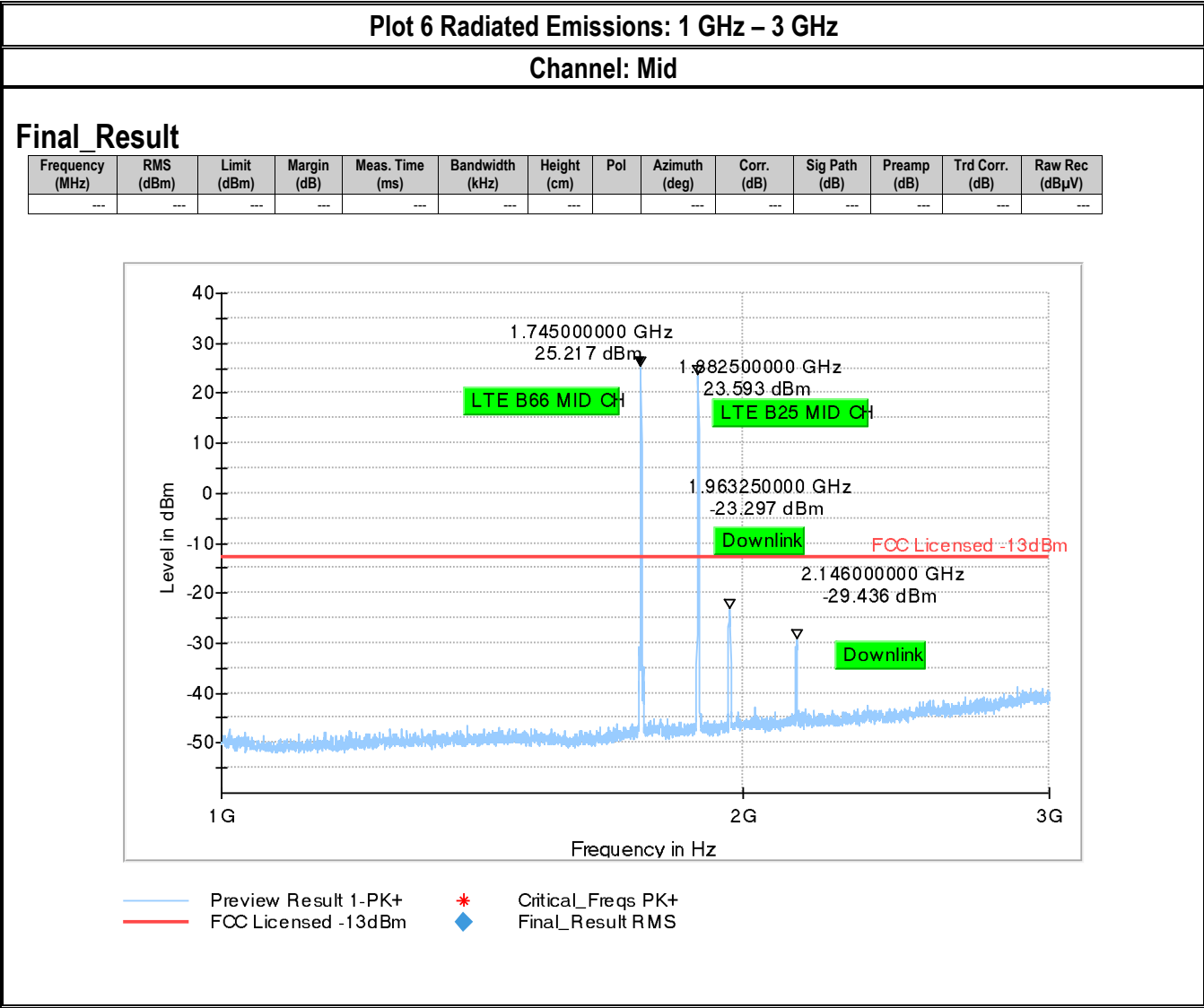
Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3704.781	-46.353	-13.00	33.35	500.0	1000.0	248.0	V	159.0	-101.4	6.3	-45.5	-62.2	55.0
5557.970	-57.428	-13.00	44.43	500.0	1000.0	169.0	V	174.0	-99.2	7.7	-46.5	-60.3	41.8
6980.406	-52.939	-13.00	39.94	500.0	1000.0	152.0	H	176.0	-96.8	8.8	-46.8	-58.8	43.8







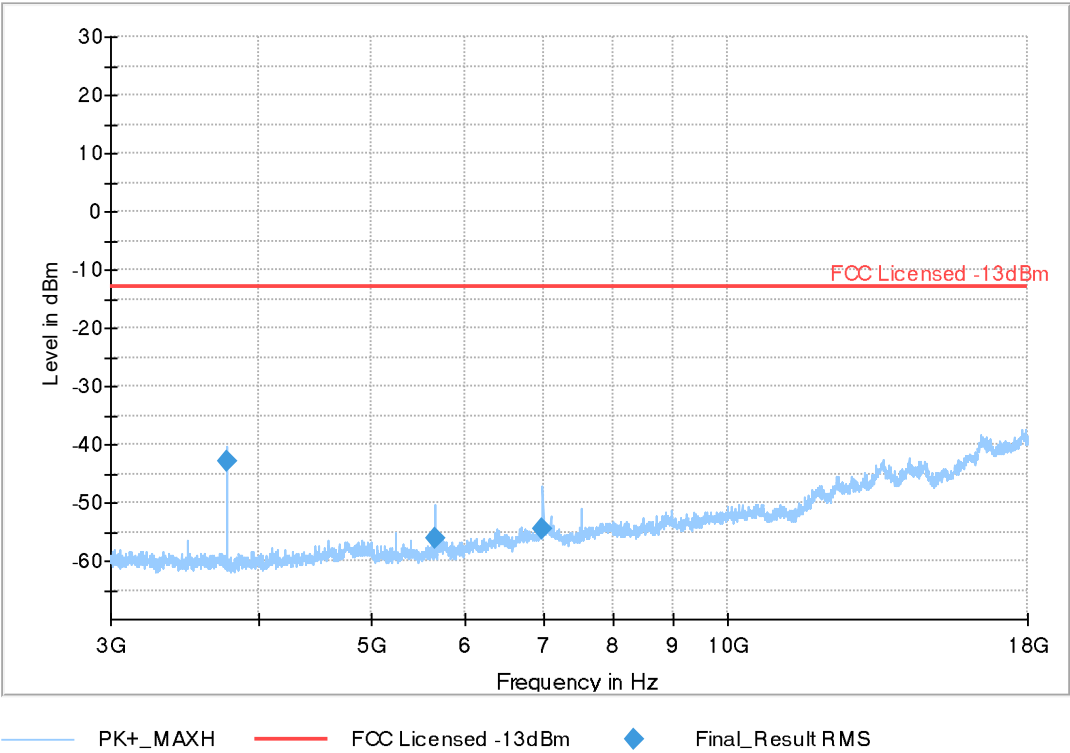


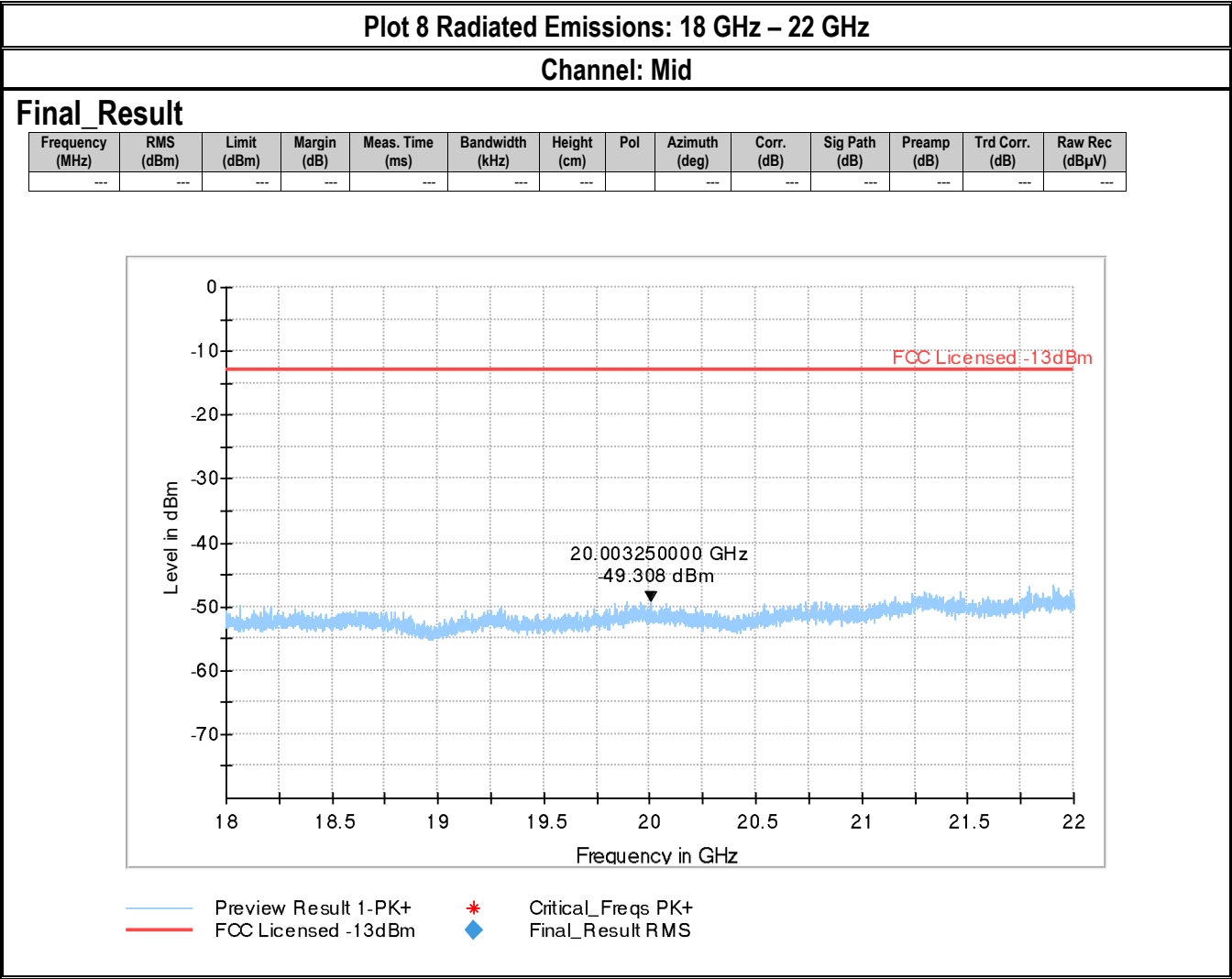
Plot 7 Radiated Emissions: 3 GHz – 18 GHz

Channel: Mid

Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3765.637	-42.949	-13.00	29.95	500.0	1000.0	253.0	V	162.0	-	6.0	-45.8	-62.1	58.9
5647.719	-56.150	-13.00	43.15	500.0	1000.0	177.0	V	183.0	-98.8	7.6	-46.1	-60.3	42.7
6980.195	-54.379	-13.00	41.38	500.0	1000.0	151.0	H	174.0	-96.8	8.8	-46.8	-58.8	42.4



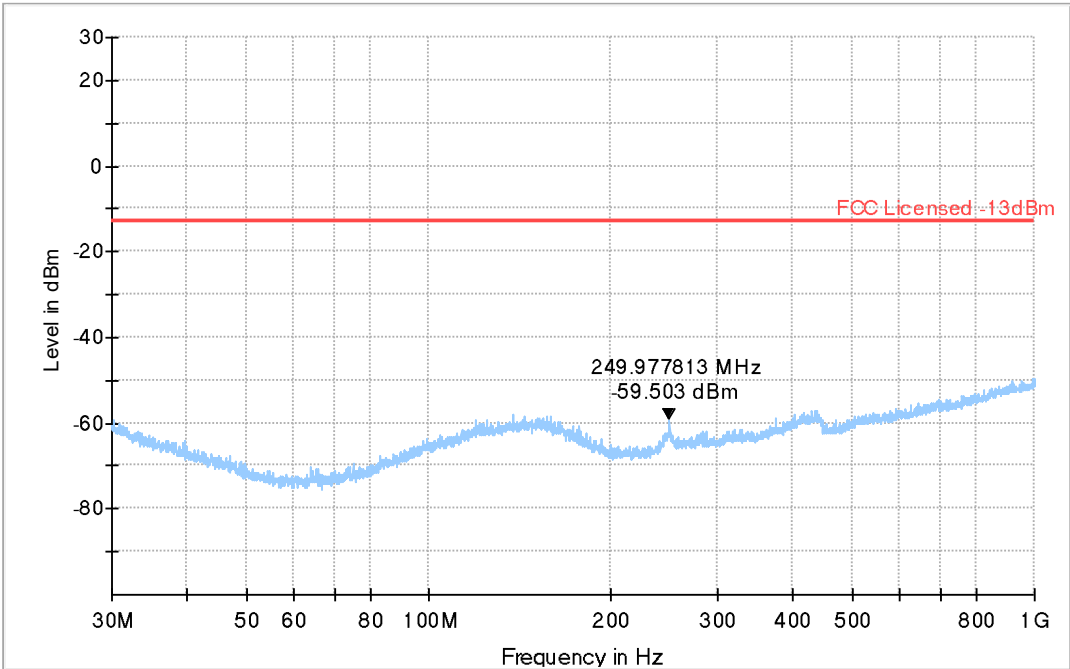


Plot 9 Radiated Emissions: 30 MHz – 1 GHz

Channel: High

Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
---	---	---	---	---	---	---		---	---	---	---	---	---

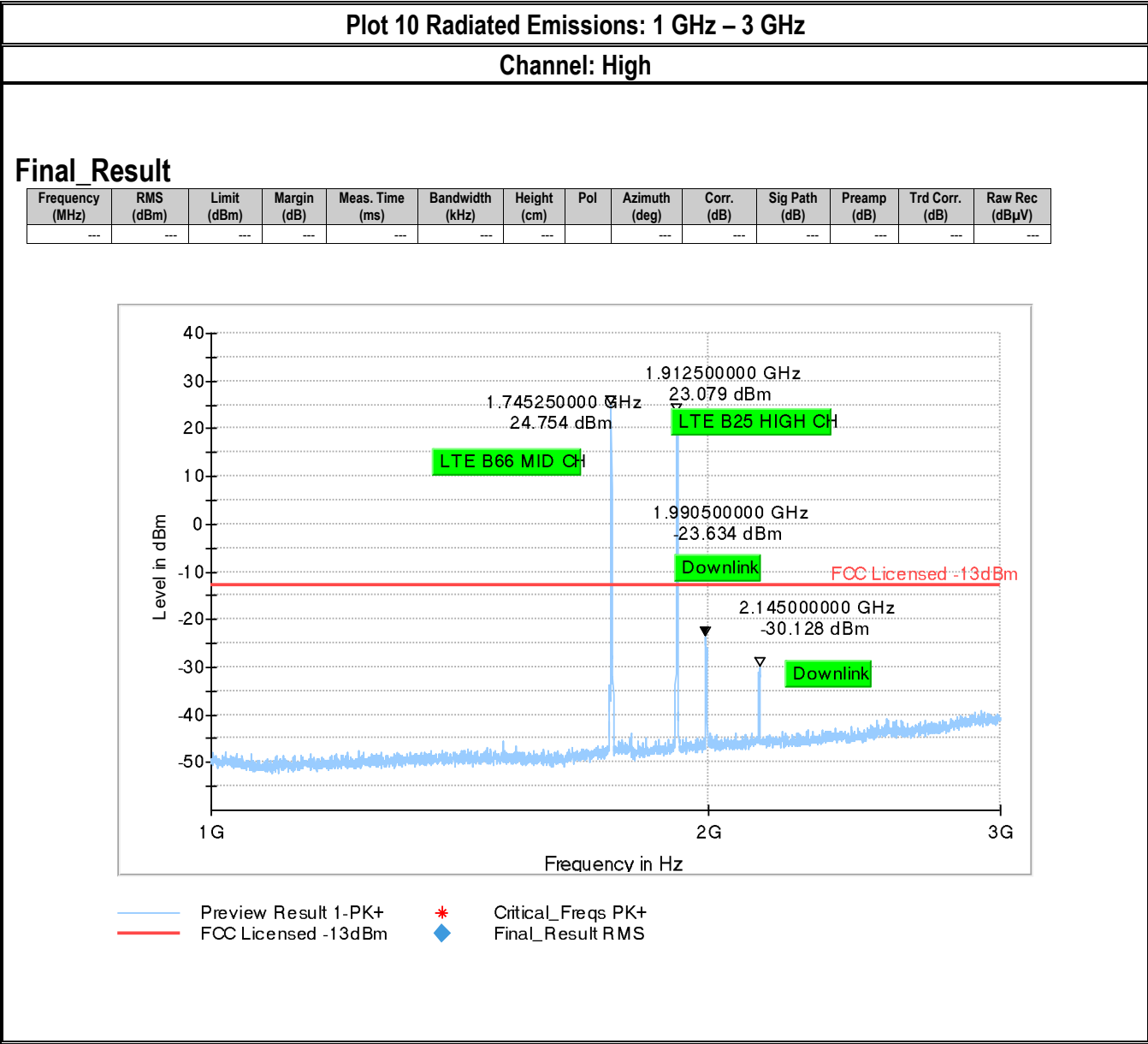


Preview Result 1-PK+

FCC Licensed -13dBm

Critical_Freqs PK+

Final_Result RMS

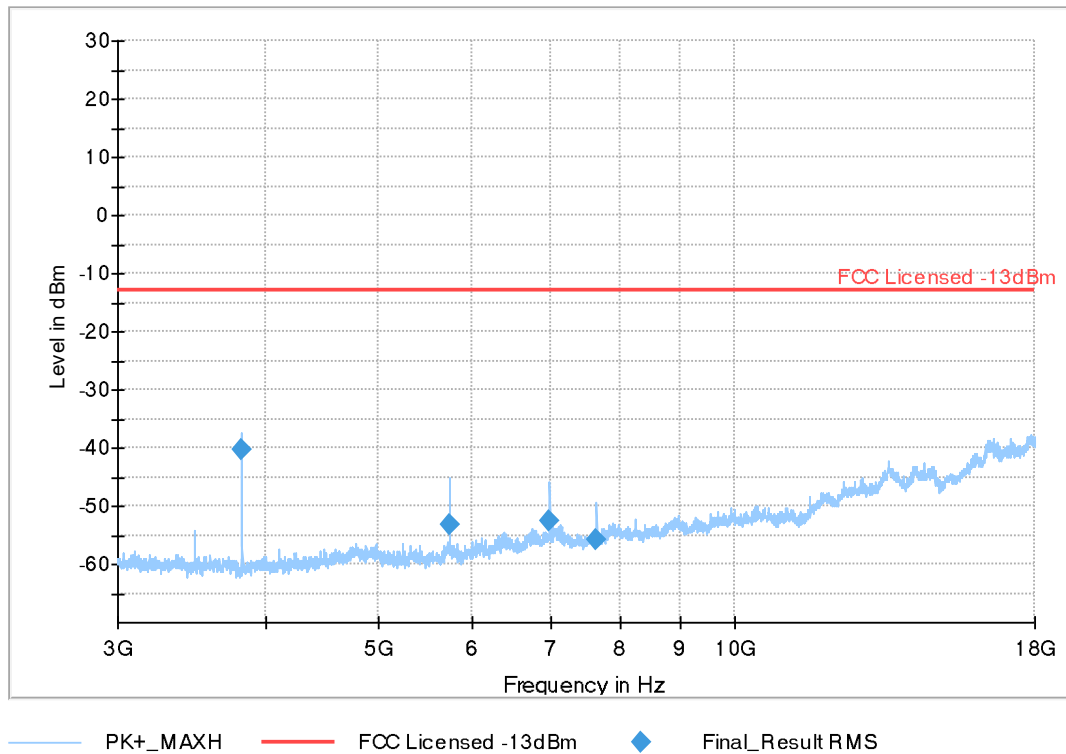


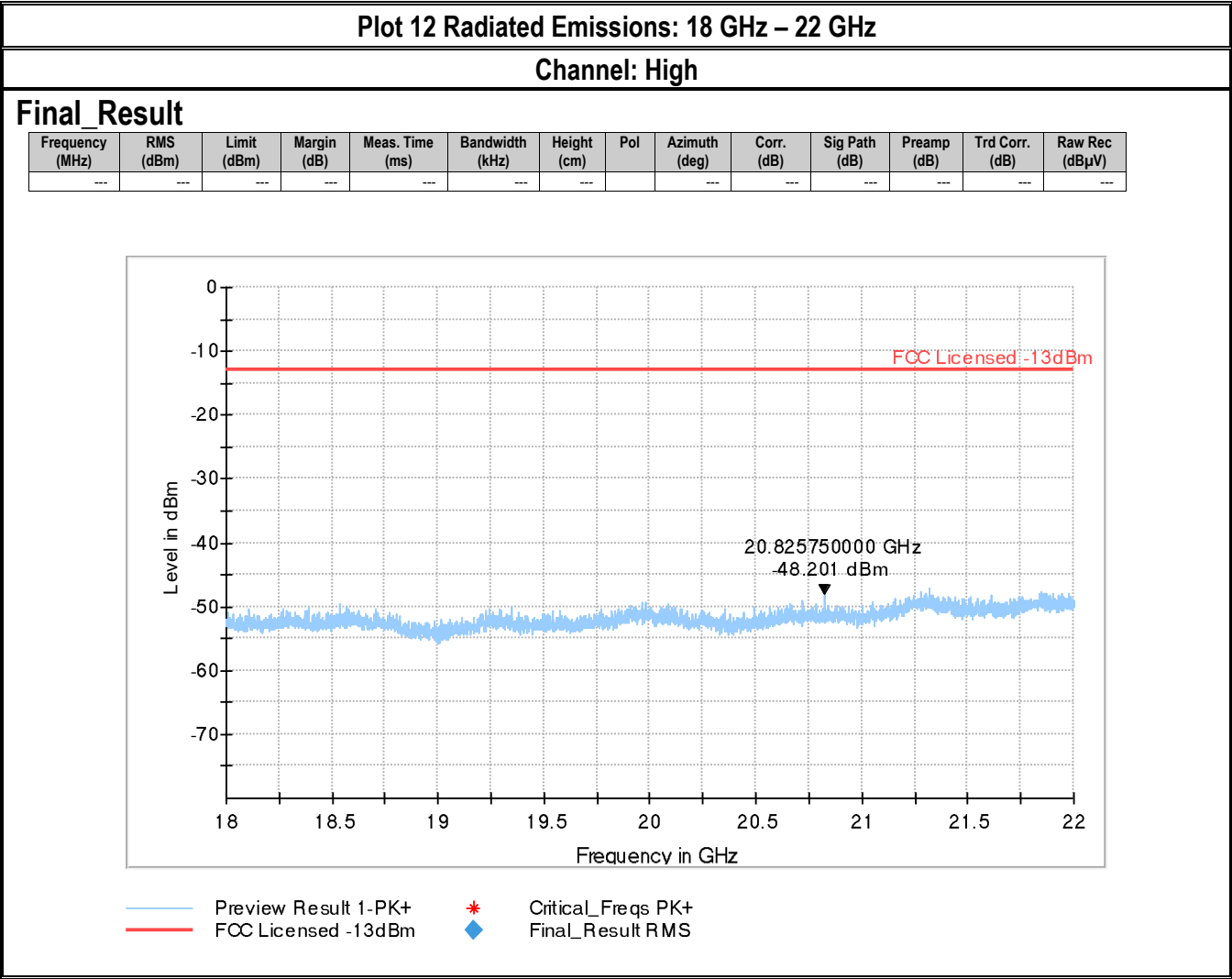
Plot 11 Radiated Emissions: 3 GHz – 18 GHz

Channel: High

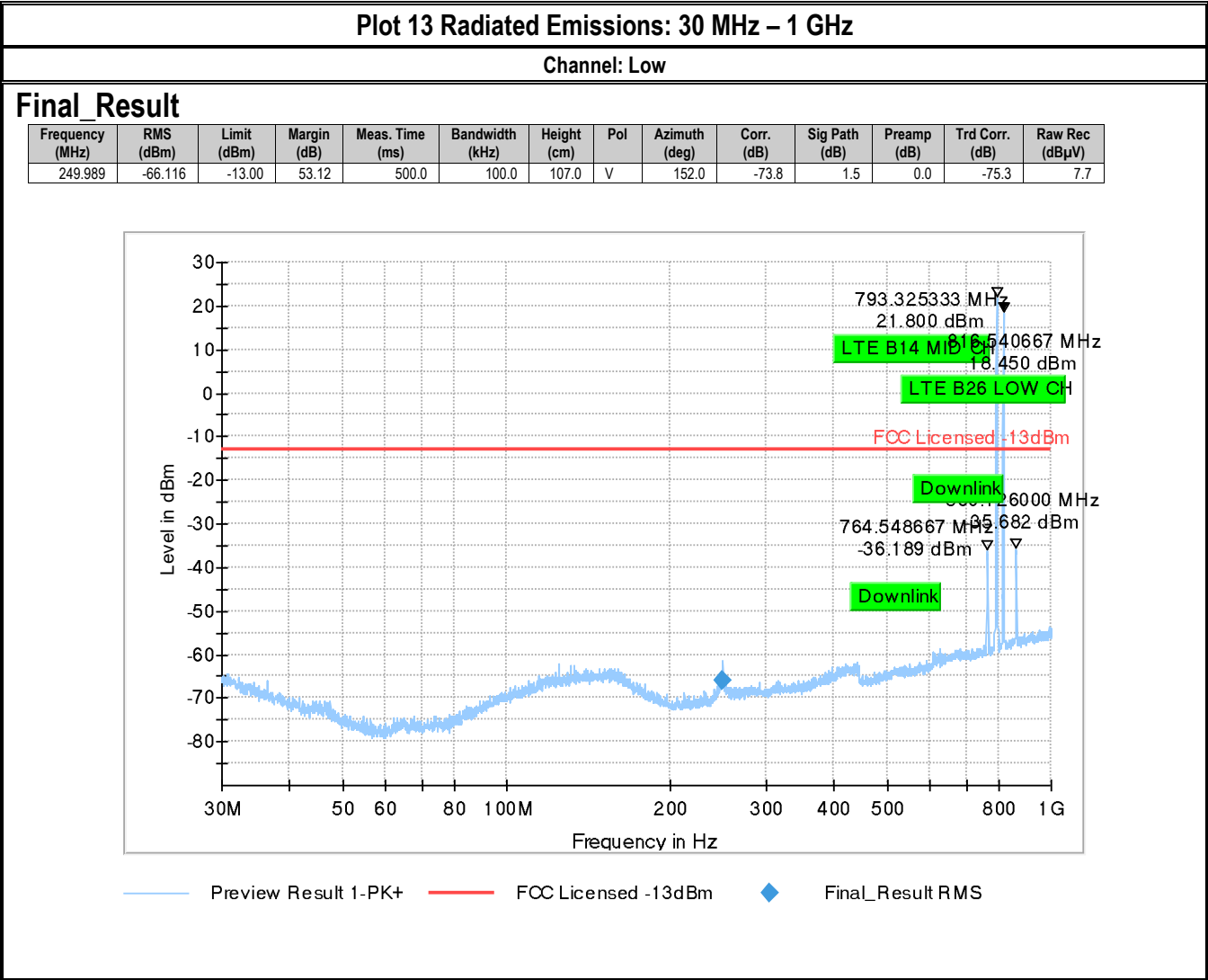
Final Result

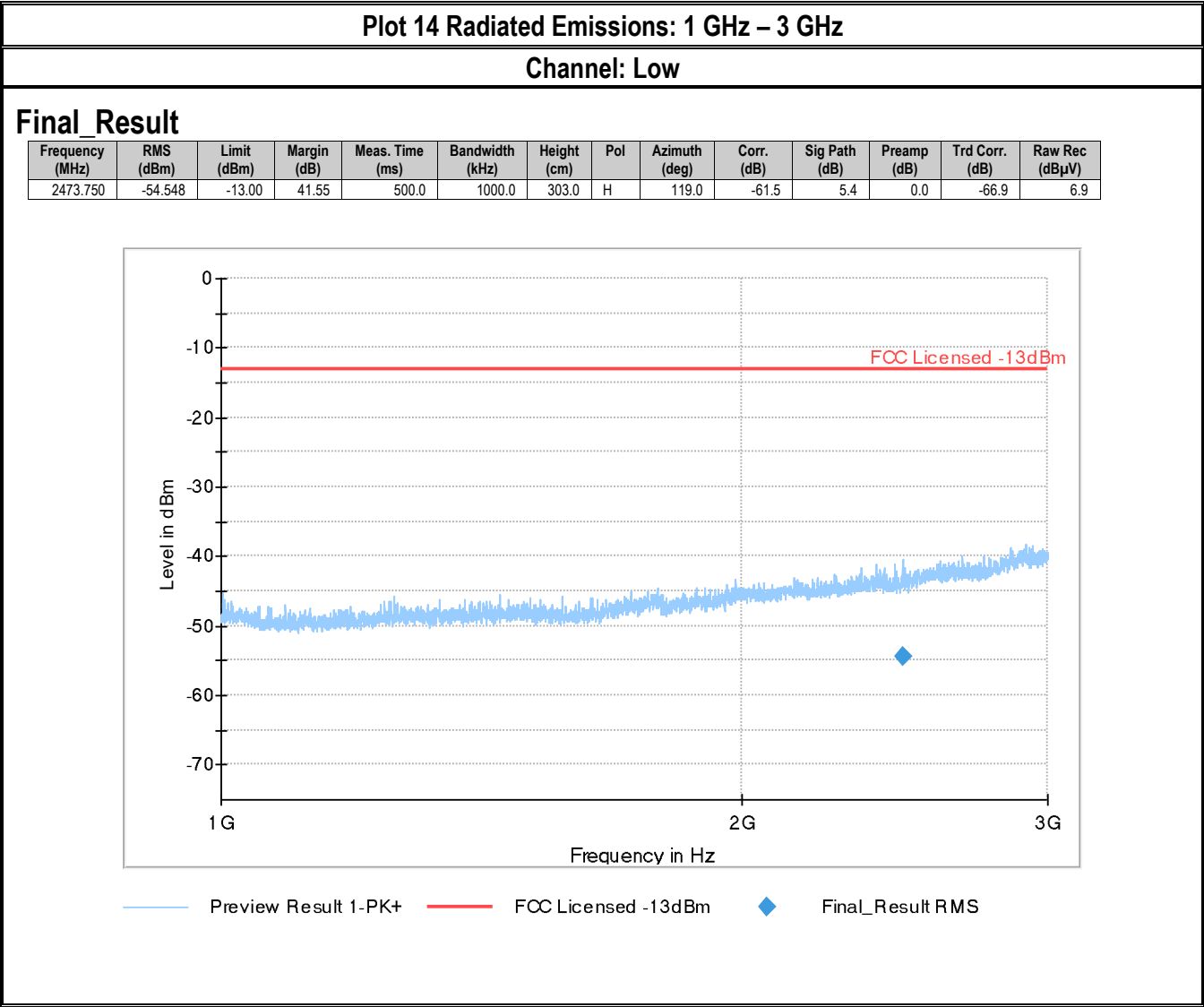
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preampl (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3825.250	-40.302	-13.00	27.30	500.0	1000.0	238.0	V	187.0	-101.9	6.0	-46.0	-62.0	61.6
5737.719	-53.143	-13.00	40.14	500.0	1000.0	125.0	H	122.0	-98.0	7.8	-45.5	-60.3	44.8
6980.637	-52.421	-13.00	39.42	500.0	1000.0	142.0	H	174.0	-96.7	8.8	-46.8	-58.8	44.3
7650.219	-55.659	-13.00	42.66	500.0	1000.0	125.0	V	208.0	-96.5	9.4	-46.8	-59.1	40.8





8.3.5.2 LTE Band 26 (Low/Mid/High) + LTE Band 14 (Mid)



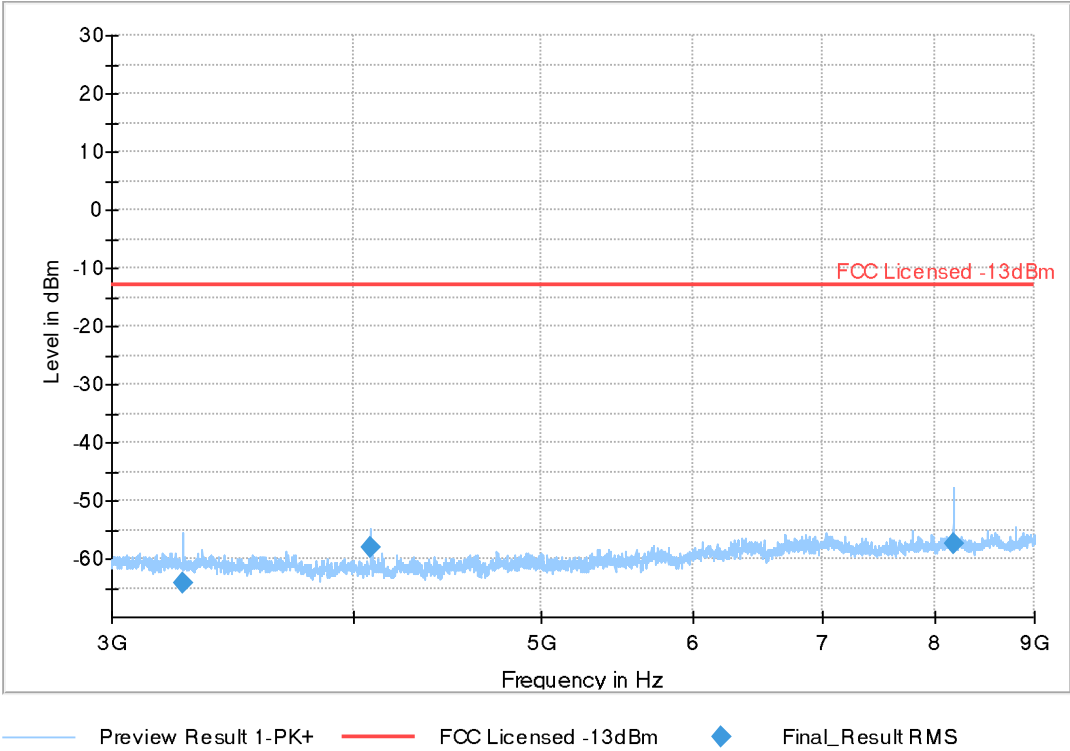


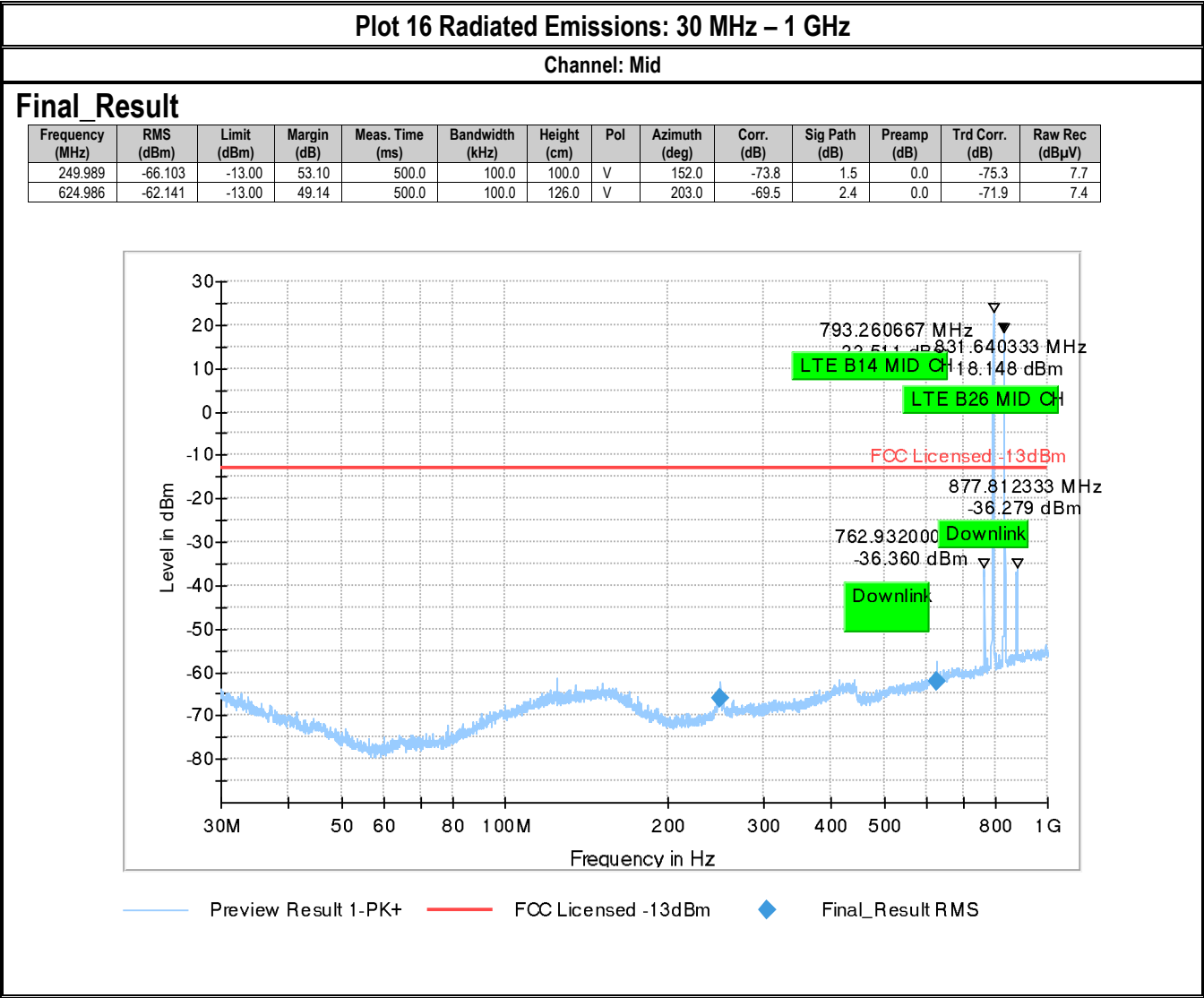
Plot 15 Radiated Emissions: 3 GHz – 9 GHz

Channel: Low

Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3267.000	-64.058	-13.00	51.06	500.0	1000.0	135.0	V	227.0	-102.7	5.6	-45.9	-62.4	38.7
4084.000	-58.149	-13.00	45.15	500.0	1000.0	258.0	H	149.0	-101.0	6.4	-45.7	-61.7	42.9
8169.742	-57.408	-13.00	44.41	500.0	1000.0	228.0	V	127.0	-96.4	9.7	-47.1	-59.1	39.0



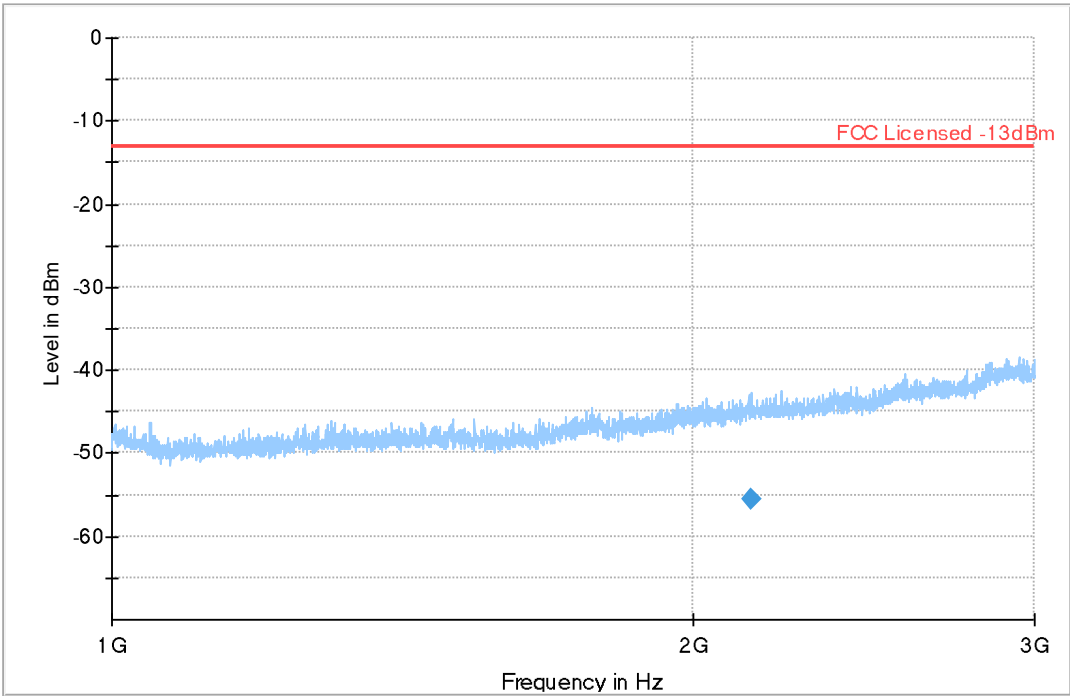


Plot 17 Radiated Emissions: 1 GHz – 3 GHz

Channel: Mid

Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2140.914	-55.456	-13.00	42.46	500.0	1000.0	216.0	V	-38.0	-62.4	5.2	0.0	-67.7	7.0



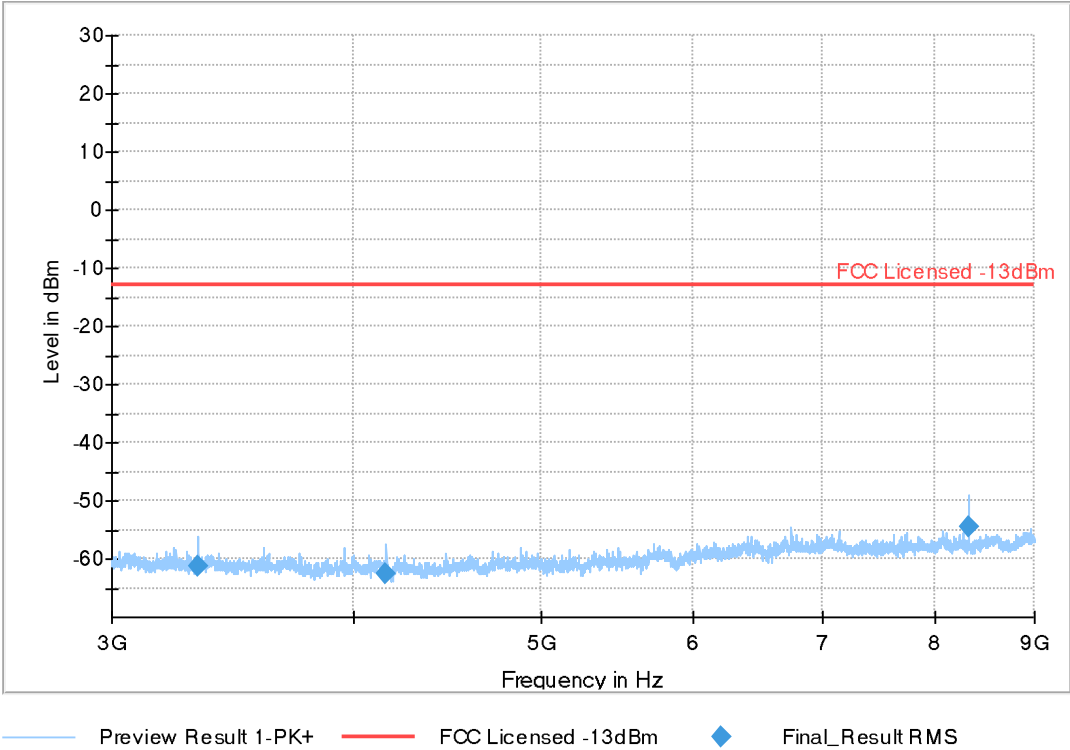
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS

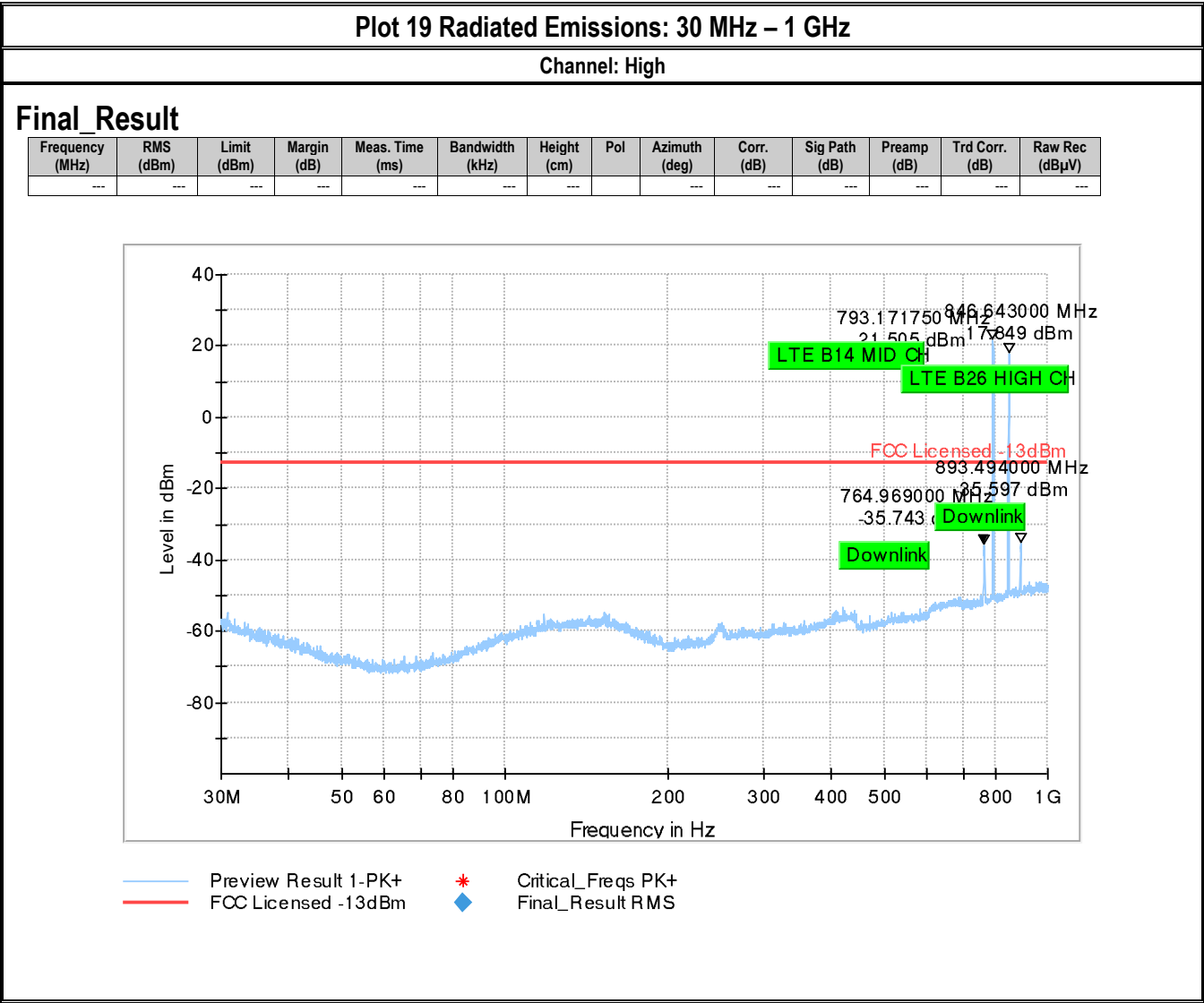
Plot 18 Radiated Emissions: 3 GHz – 9 GHz

Channel: Mid

Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3327.473	-61.448	-13.00	48.45	500.0	1000.0	190.0	V	216.0	-102.5	5.8	-45.9	-62.4	41.1
4159.291	-62.614	-13.00	49.61	500.0	1000.0	100.0	H	97.0	-100.4	6.5	-45.2	-61.7	37.8
8318.000	-54.631	-13.00	41.63	500.0	1000.0	186.0	V	121.0	-96.7	10.2	-47.8	-59.1	42.1



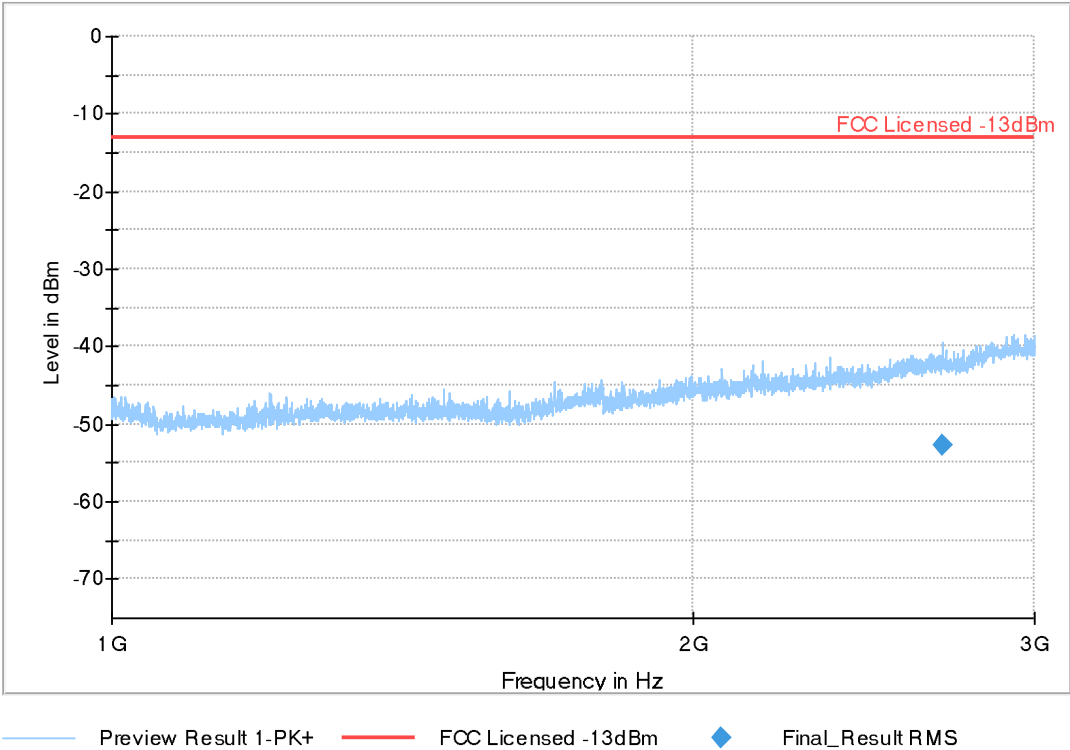


Plot 20 Radiated Emissions: 1 GHz – 3 GHz

Channel: High

Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2687.862	-52.647	-13.00	39.65	500.0	1000.0	302.0	V	192.0	-60.7	5.7	0.0	-66.4	8.1

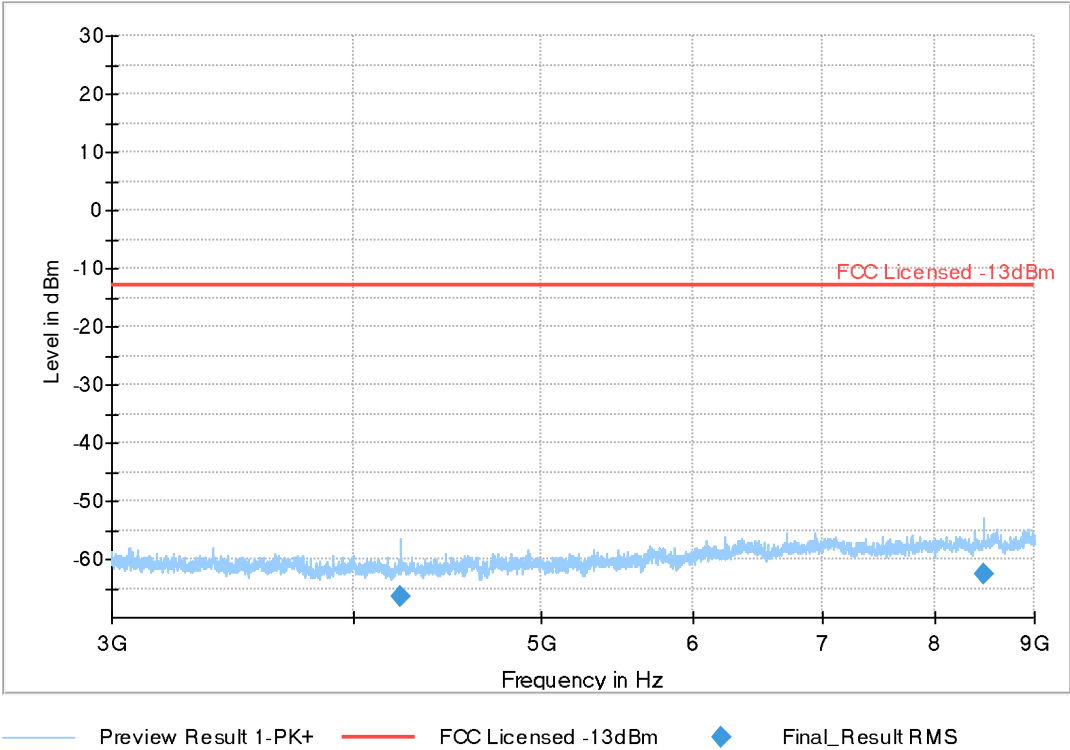


Plot 21 Radiated Emissions: 3 GHz – 9 GHz

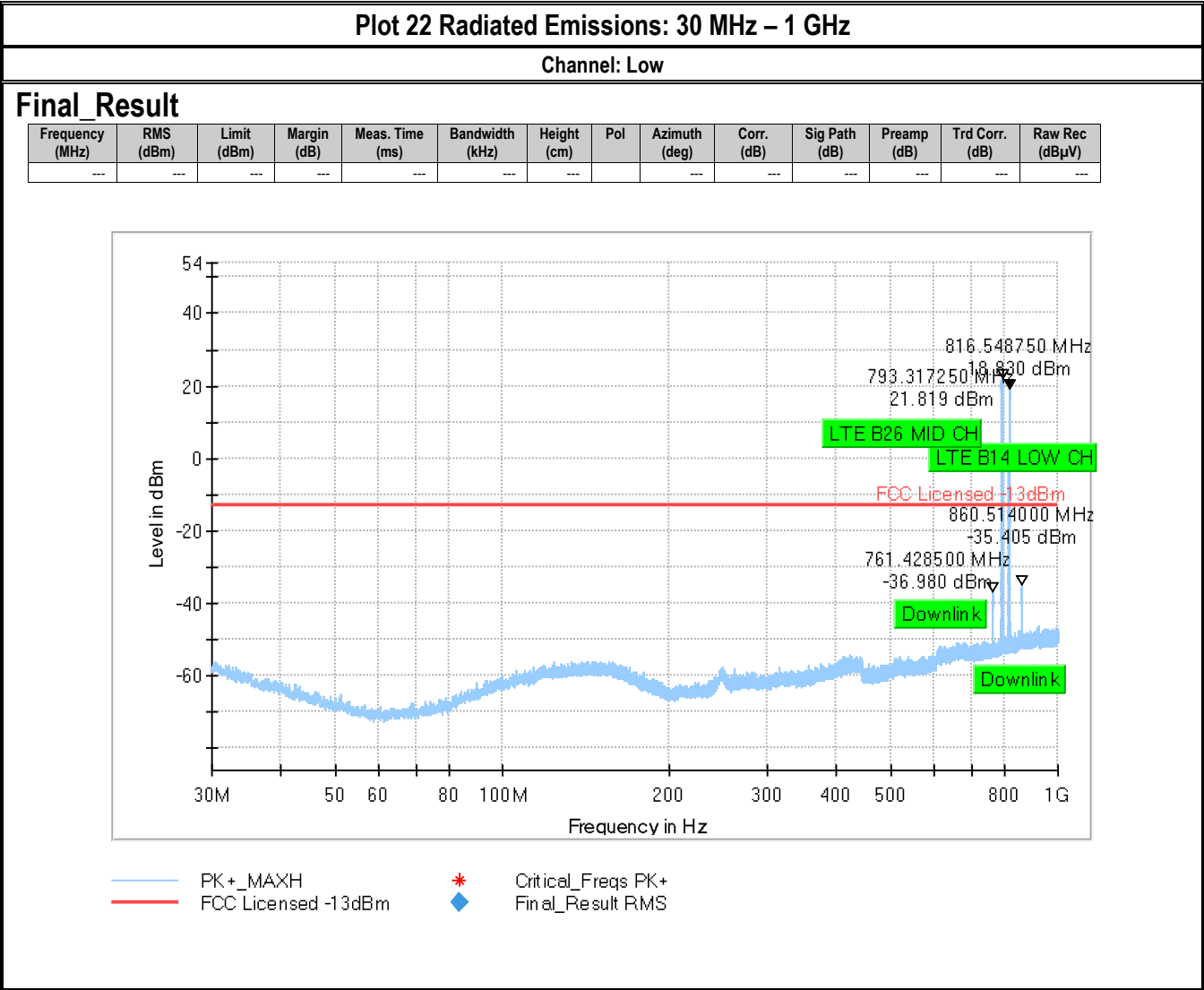
Channel: High

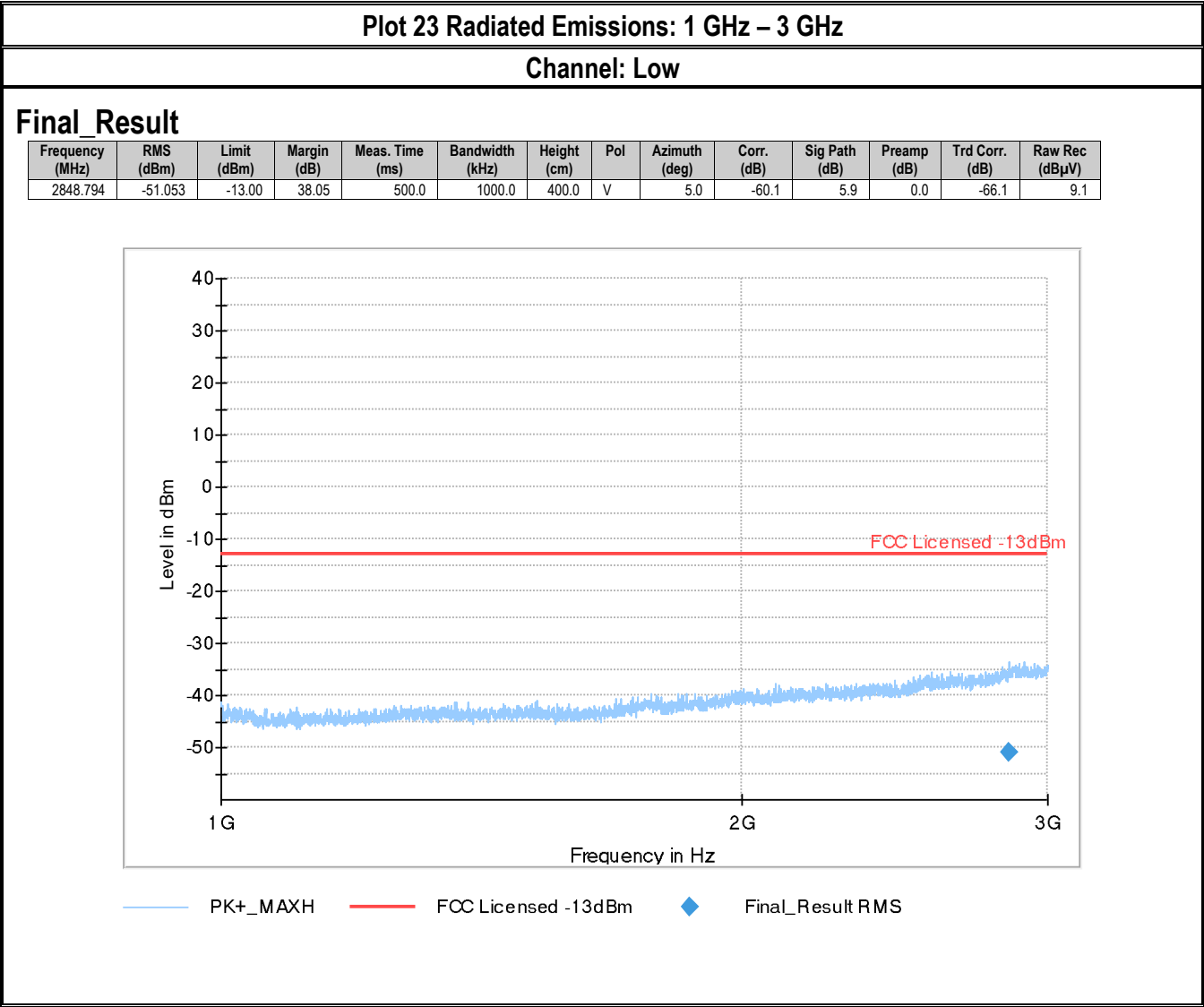
Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
4233.101	-66.559	-13.00	53.56	500.0	1000.0	254.0	V	145.0	-100.2	6.6	-45.1	-61.6	33.6
8469.950	-62.565	-13.00	49.56	500.0	1000.0	182.0	H	200.0	-96.1	10.6	-47.5	-59.2	33.5



8.3.5.3 LTE Band 26 (Mid) + LTE Band 14 (Low/Mid/High)



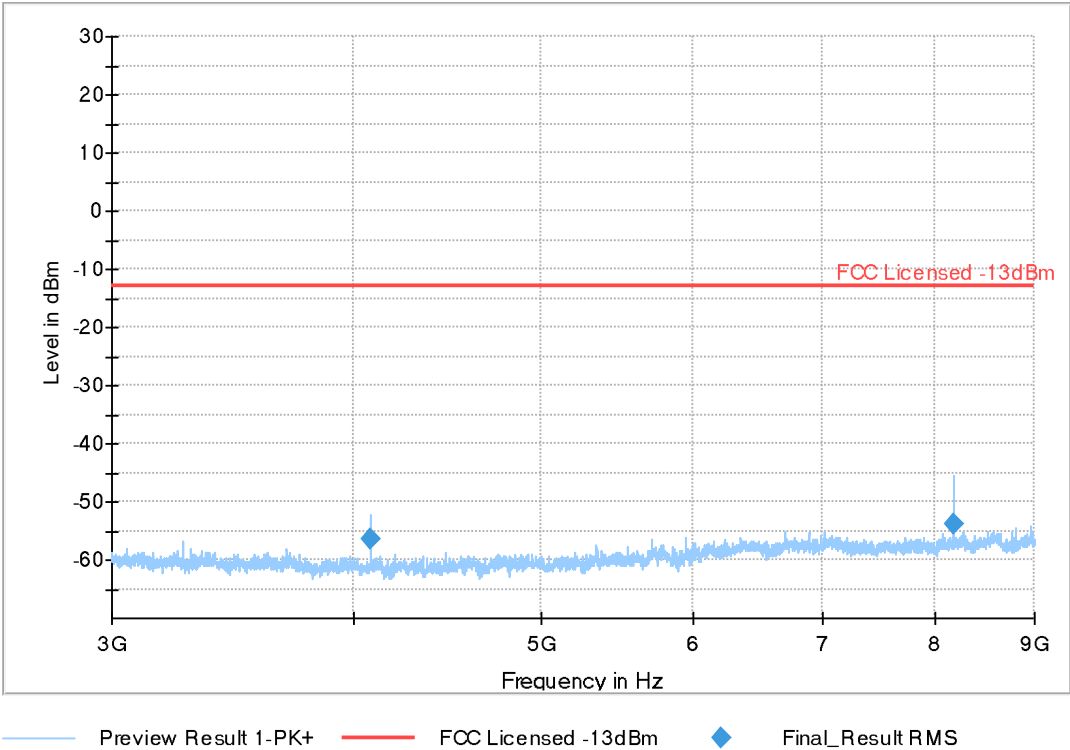


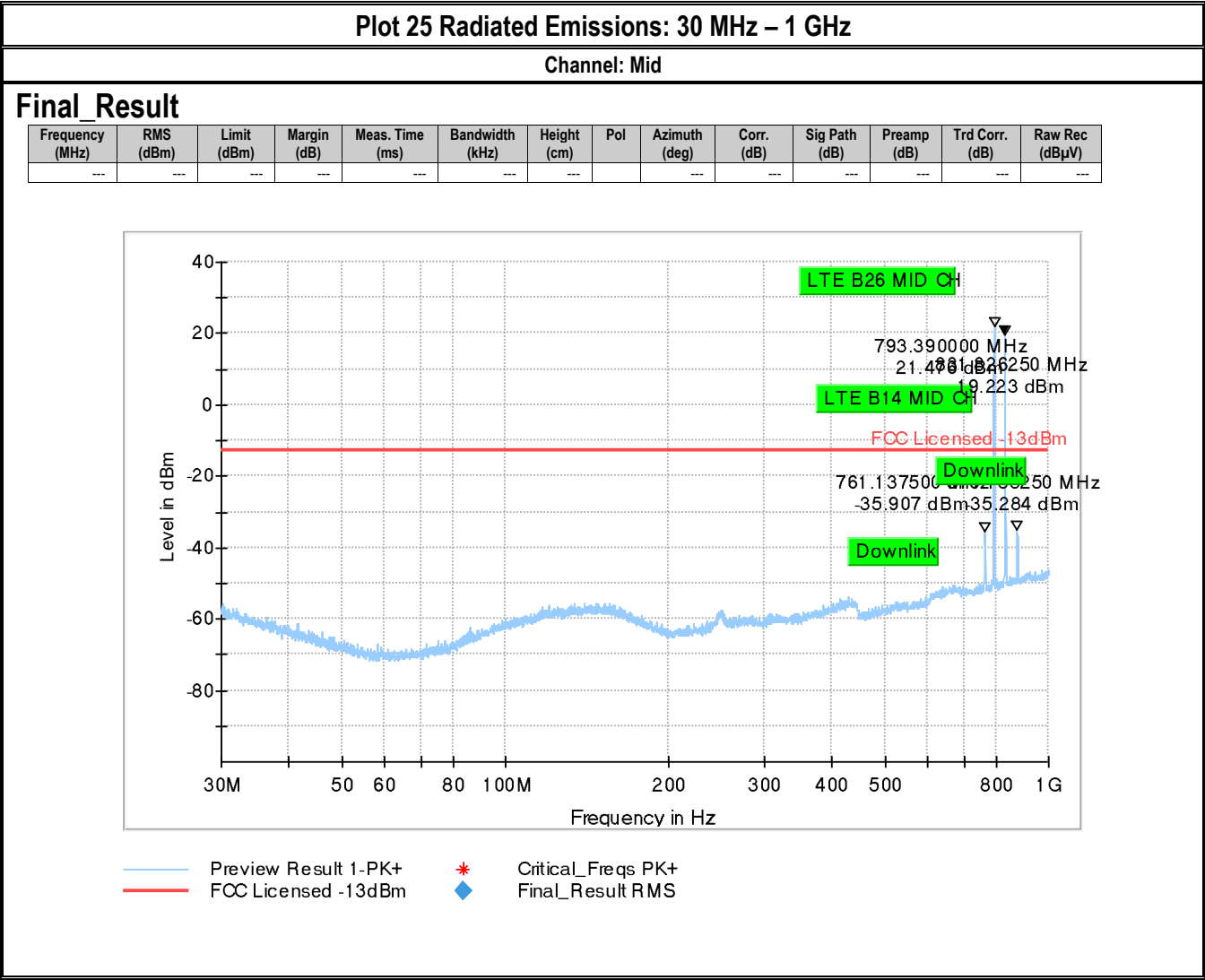
Plot 24 Radiated Emissions: 3 GHz – 9 GHz

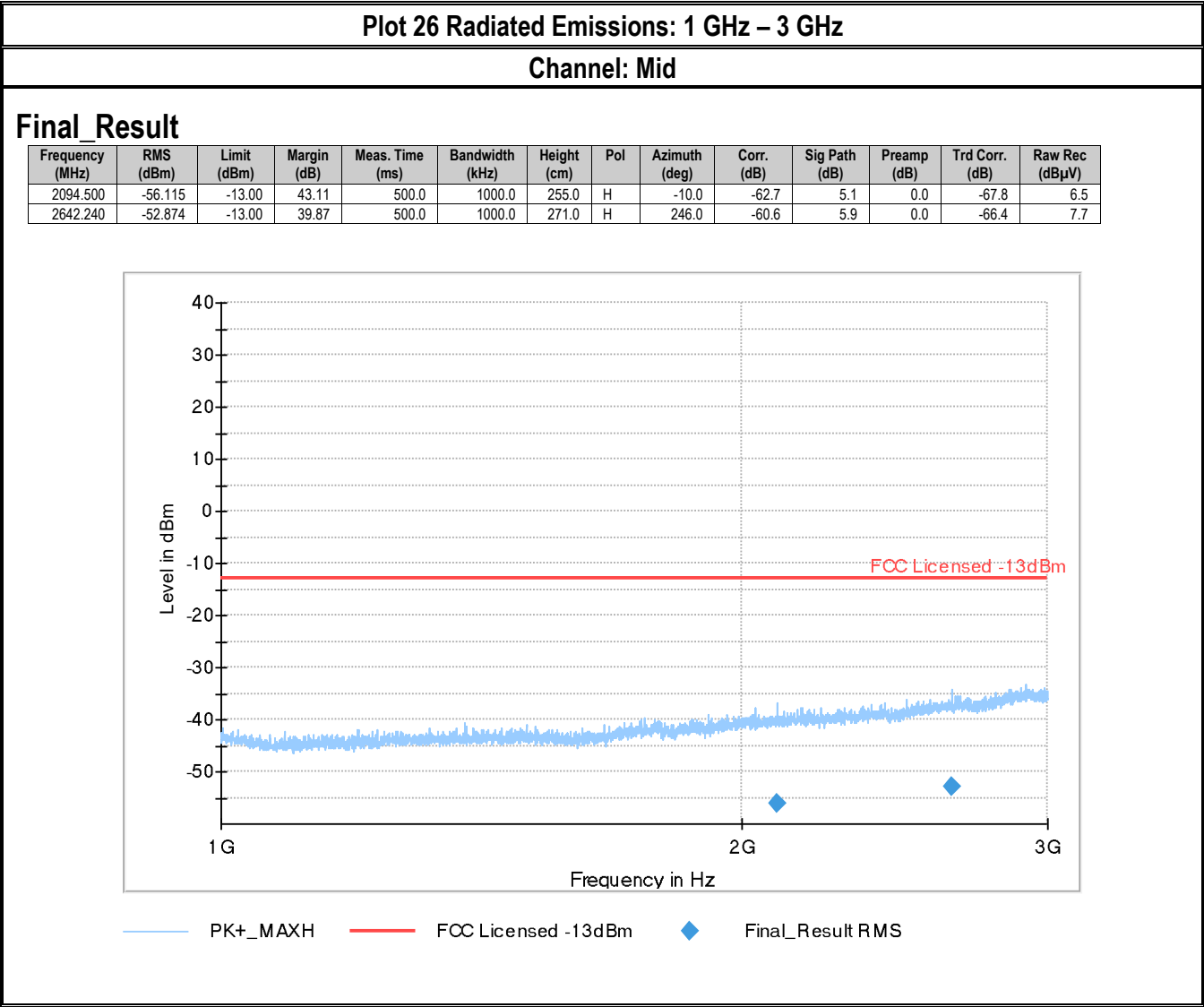
Channel: Low

Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
4084.175	-56.350	-13.00	43.35	500.0	1000.0	279.0	H	146.0	-101.0	6.4	-45.7	-61.7	44.7
8169.125	-53.814	-13.00	40.81	500.0	1000.0	230.0	V	126.0	-96.4	9.7	-47.1	-59.1	42.6





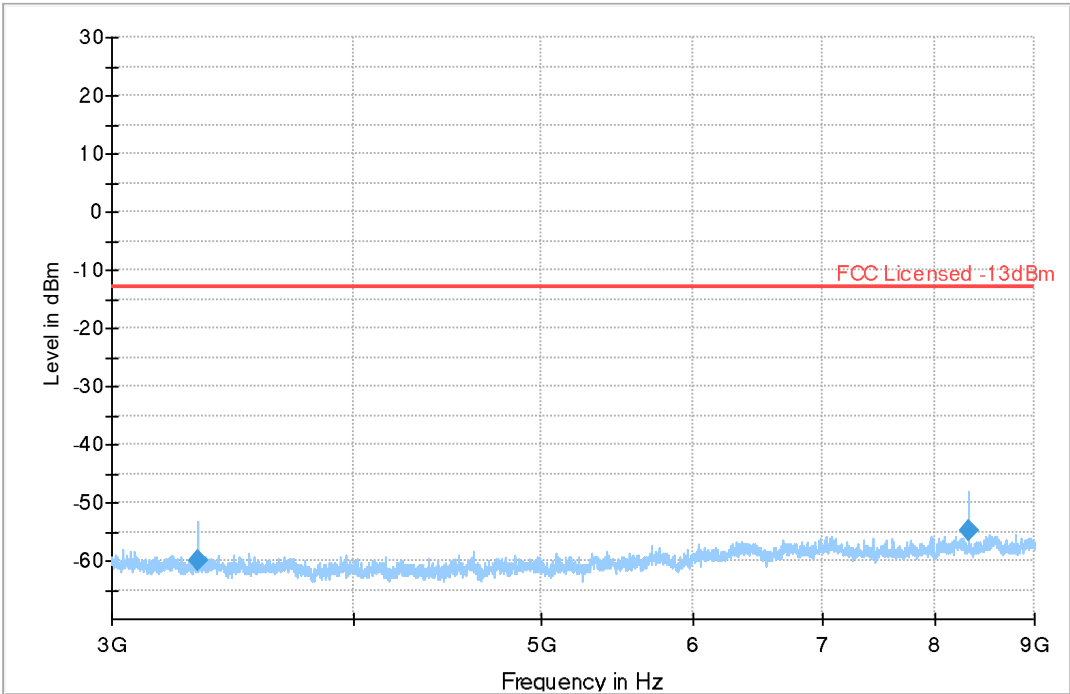


Plot 27 Radiated Emissions: 3 GHz – 9 GHz

Channel: Mid

Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3326.938	-59.902	-13.00	46.90	500.0	1000.0	213.0	V	170.0	-102.5	5.8	-45.9	-62.4	42.6
8318.687	-54.901	-13.00	41.90	500.0	1000.0	222.0	V	127.0	-96.7	10.2	-47.8	-59.1	41.8



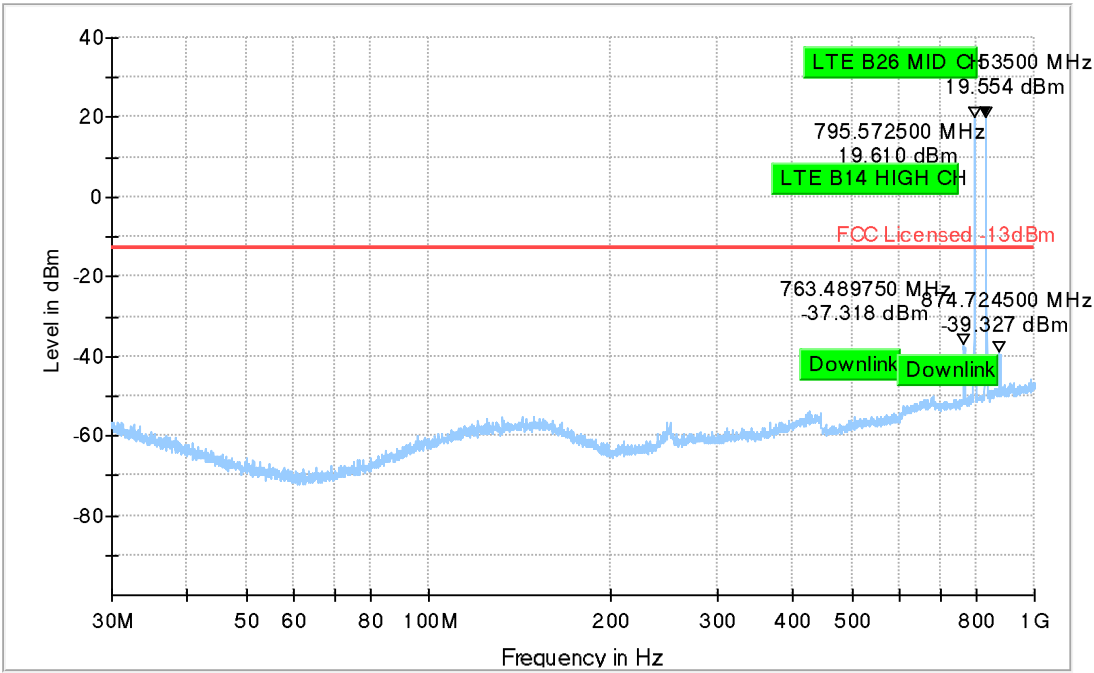
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS

Plot 28 Radiated Emissions: 30 MHz – 1 GHz

Channel: High

Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preampl (dB)	Trd Corr. (dB)	Raw Rec (dBμV)

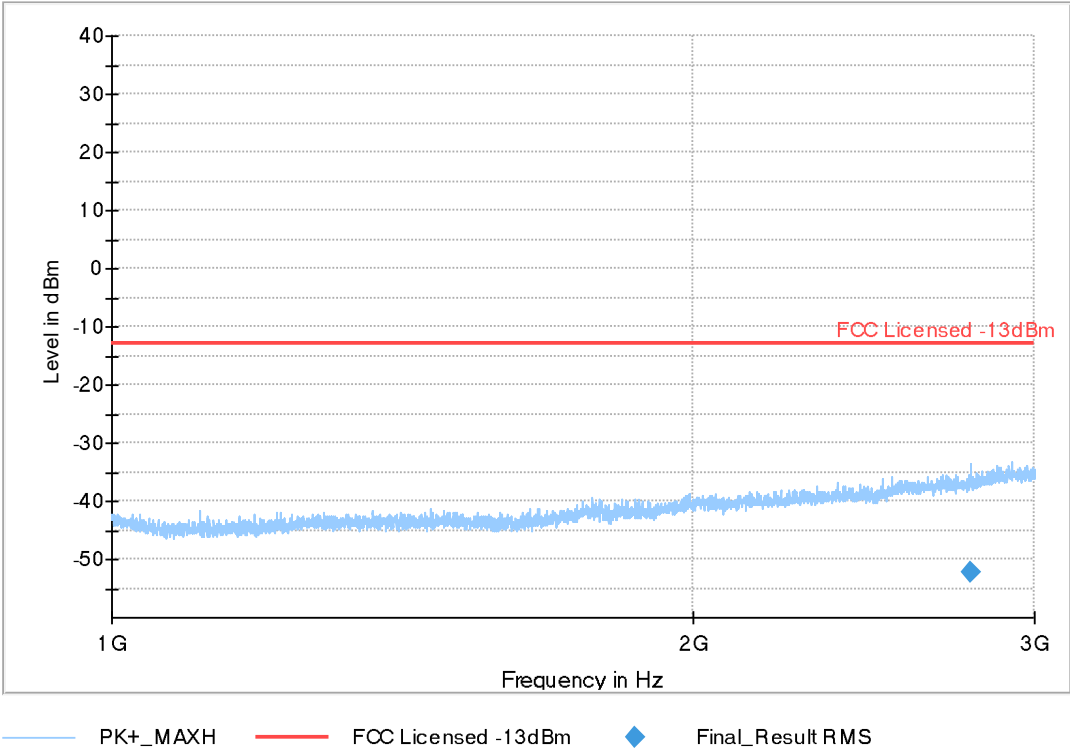


Plot 29 Radiated Emissions: 1 GHz – 3 GHz

Channel: High

Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preampl (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2781.000	-52.393	-13.00	39.39	500.0	1000.0	351.0	H	37.0	-60.7	5.6	0.0	-66.3	8.3

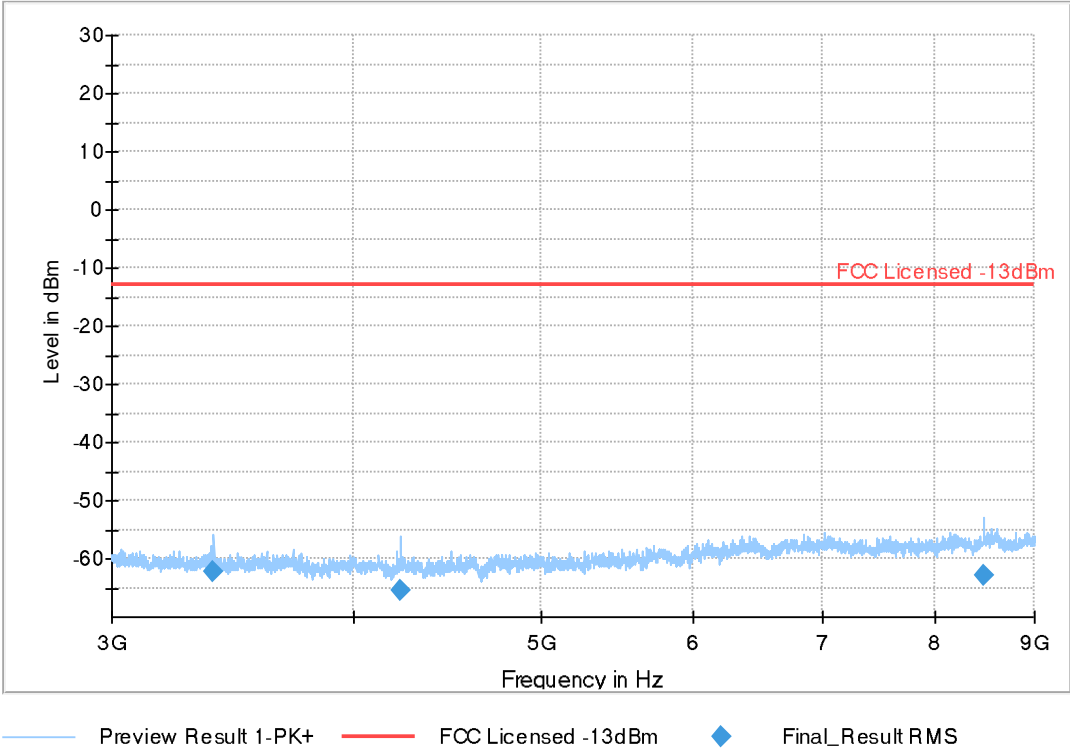


Plot 30 Radiated Emissions: 3 GHz – 9 GHz

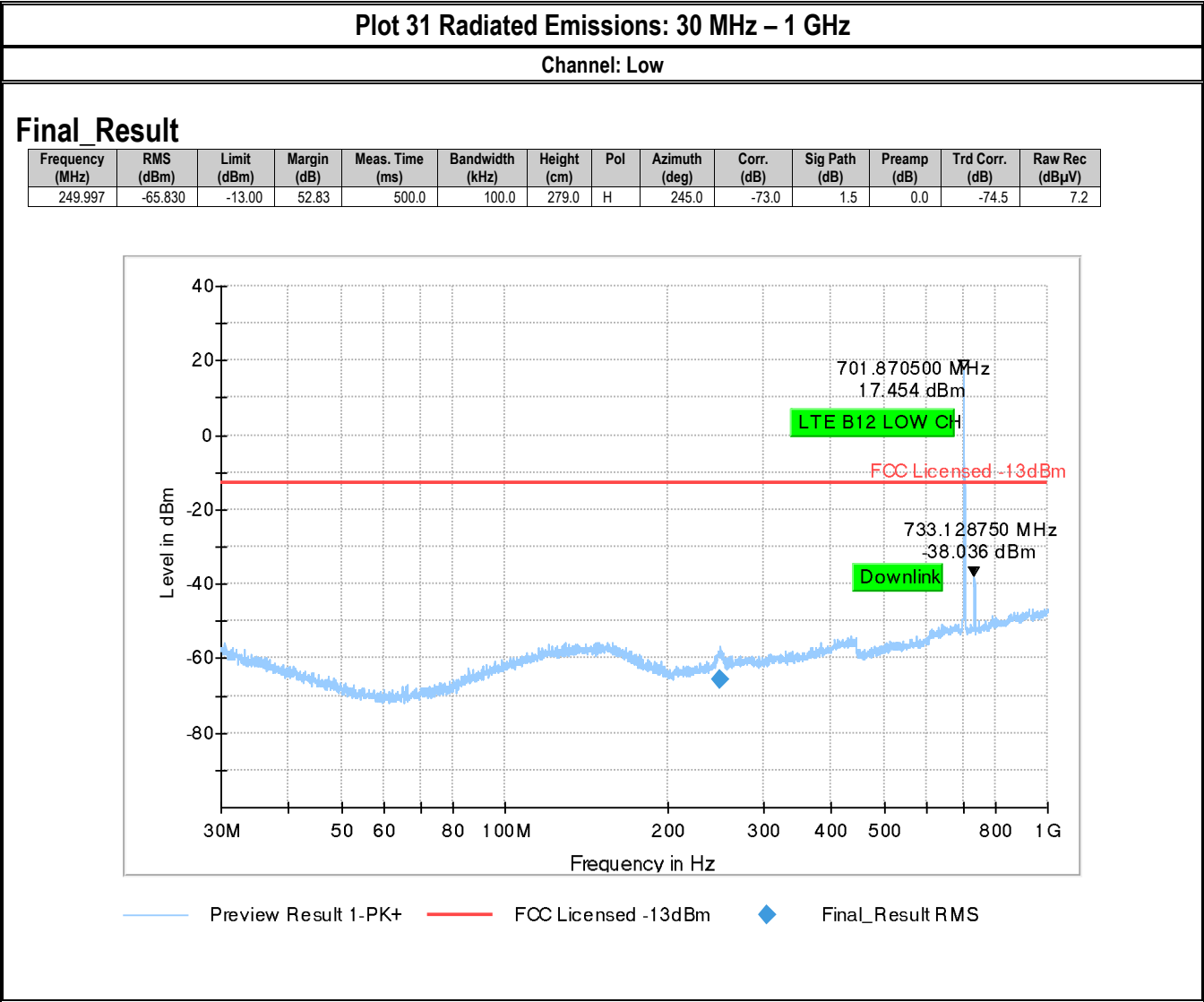
Channel: High

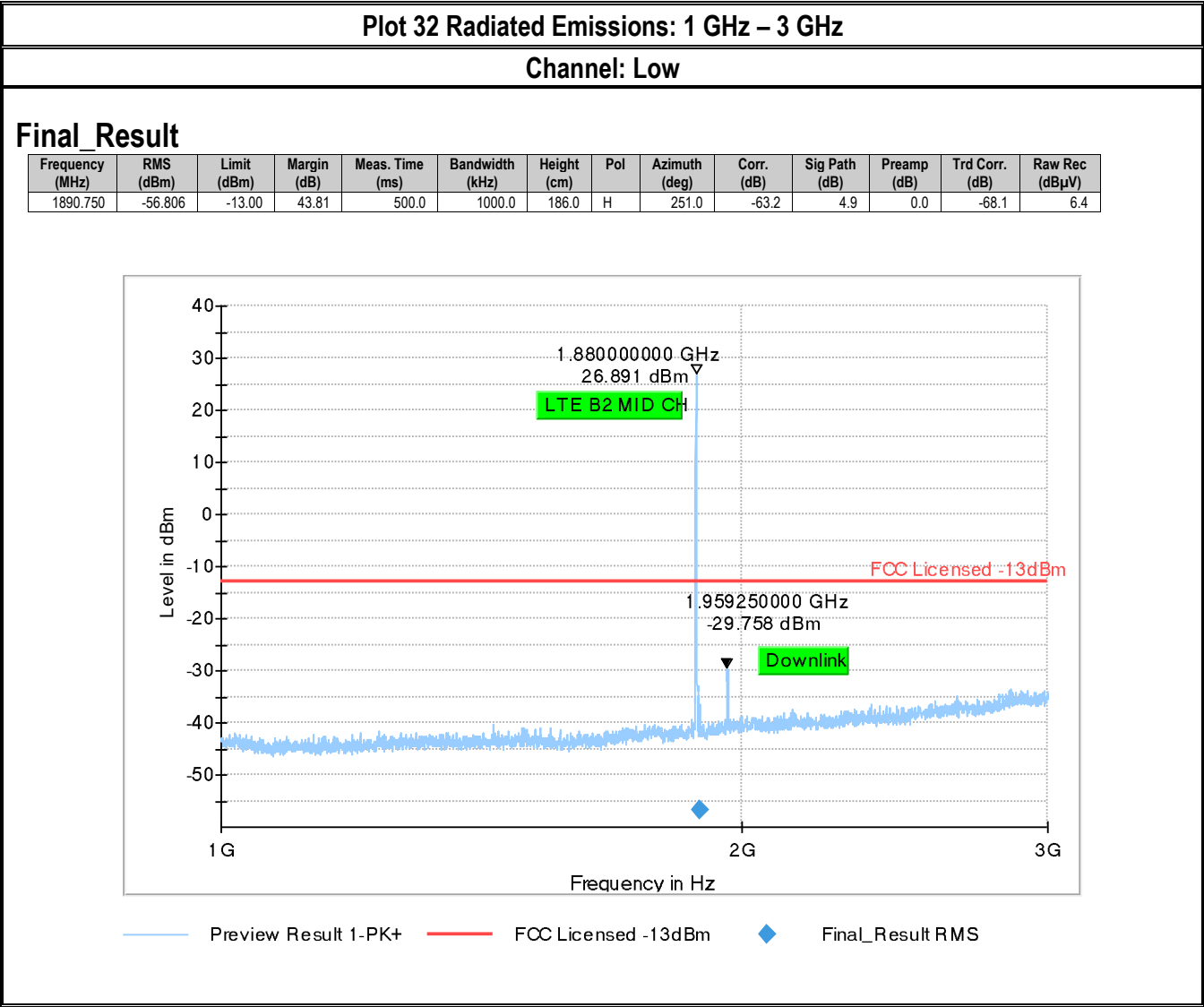
Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3387.688	-62.377	-13.00	49.38	500.0	1000.0	195.0	V	220.0	-102.3	5.9	-45.9	-62.3	40.0
4233.625	-65.585	-13.00	52.59	500.0	1000.0	107.0	H	113.0	-100.2	6.6	-45.2	-61.6	34.6
8470.484	-63.043	-13.00	50.04	500.0	1000.0	168.0	V	116.0	-96.1	10.6	-47.5	-59.2	33.1



8.3.5.4 LTE Band 12 (Low/Mid/High) + LTE Band 2 (Mid)



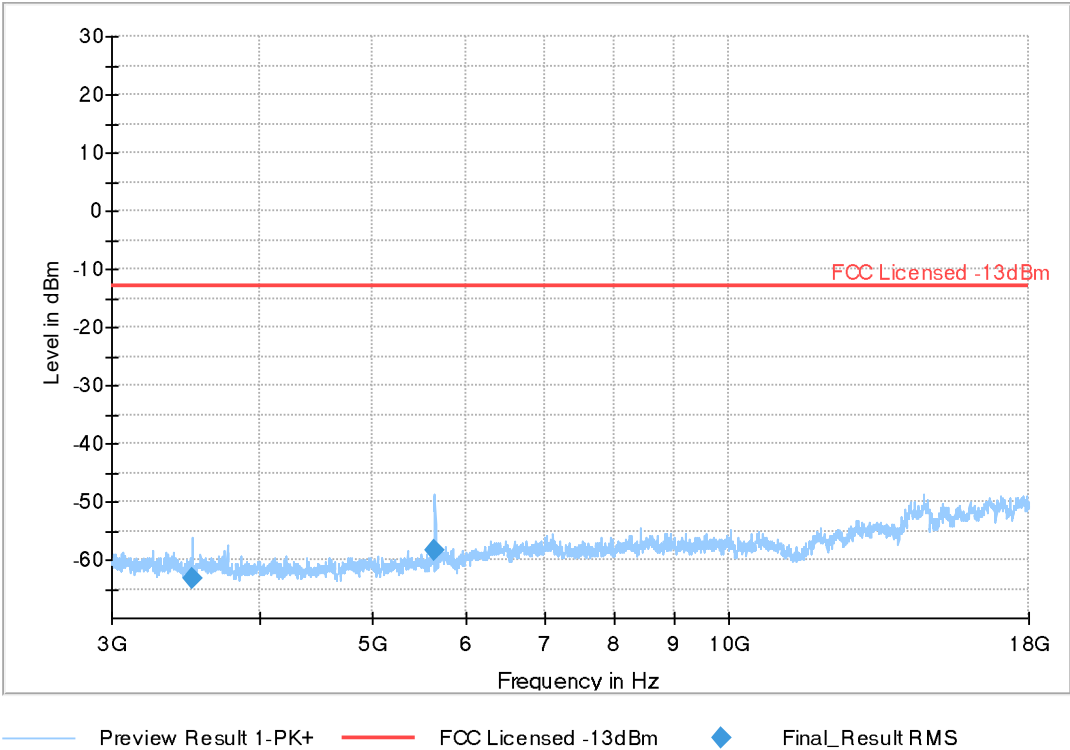


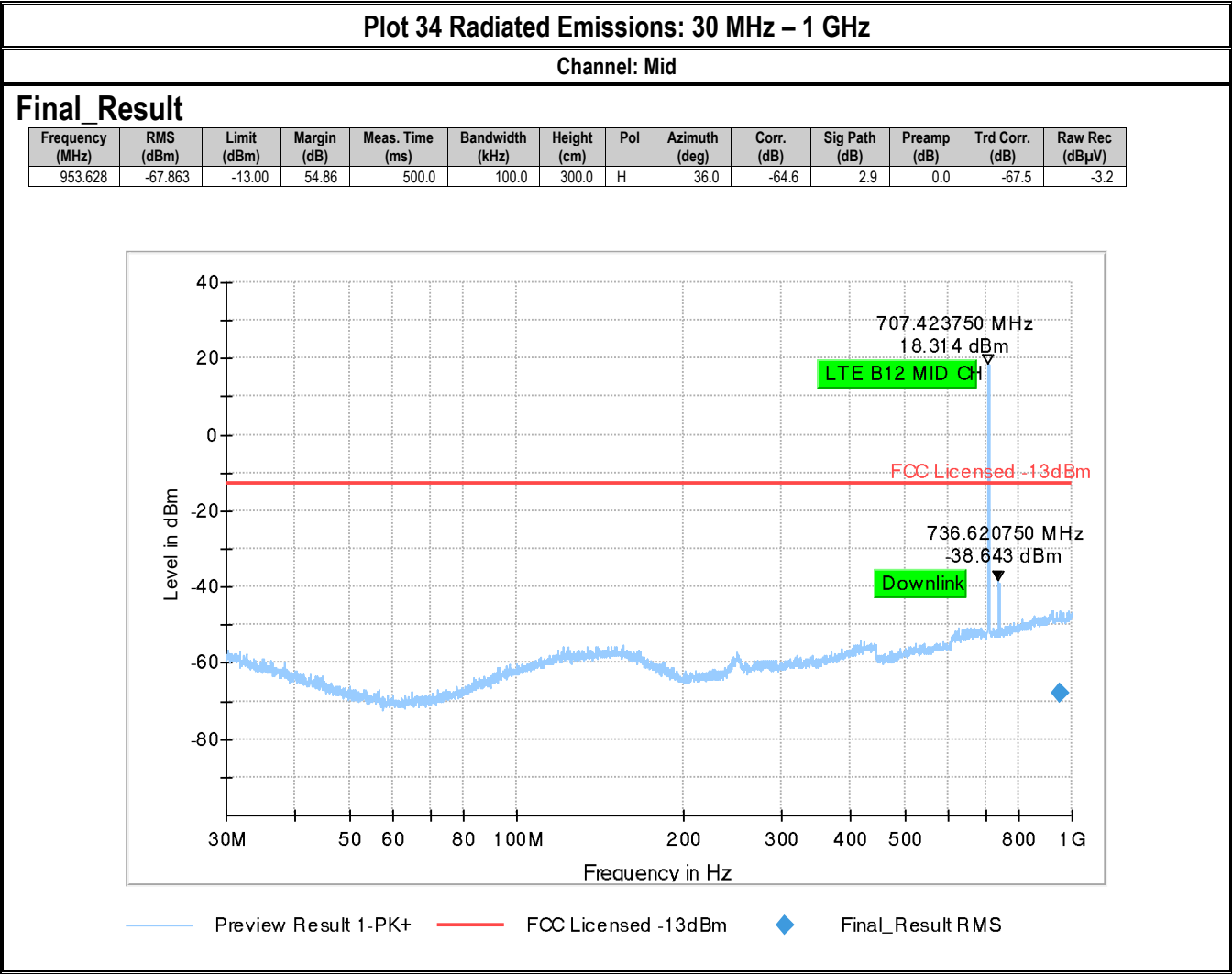
Plot 33 Radiated Emissions: 3 GHz – 18 GHz

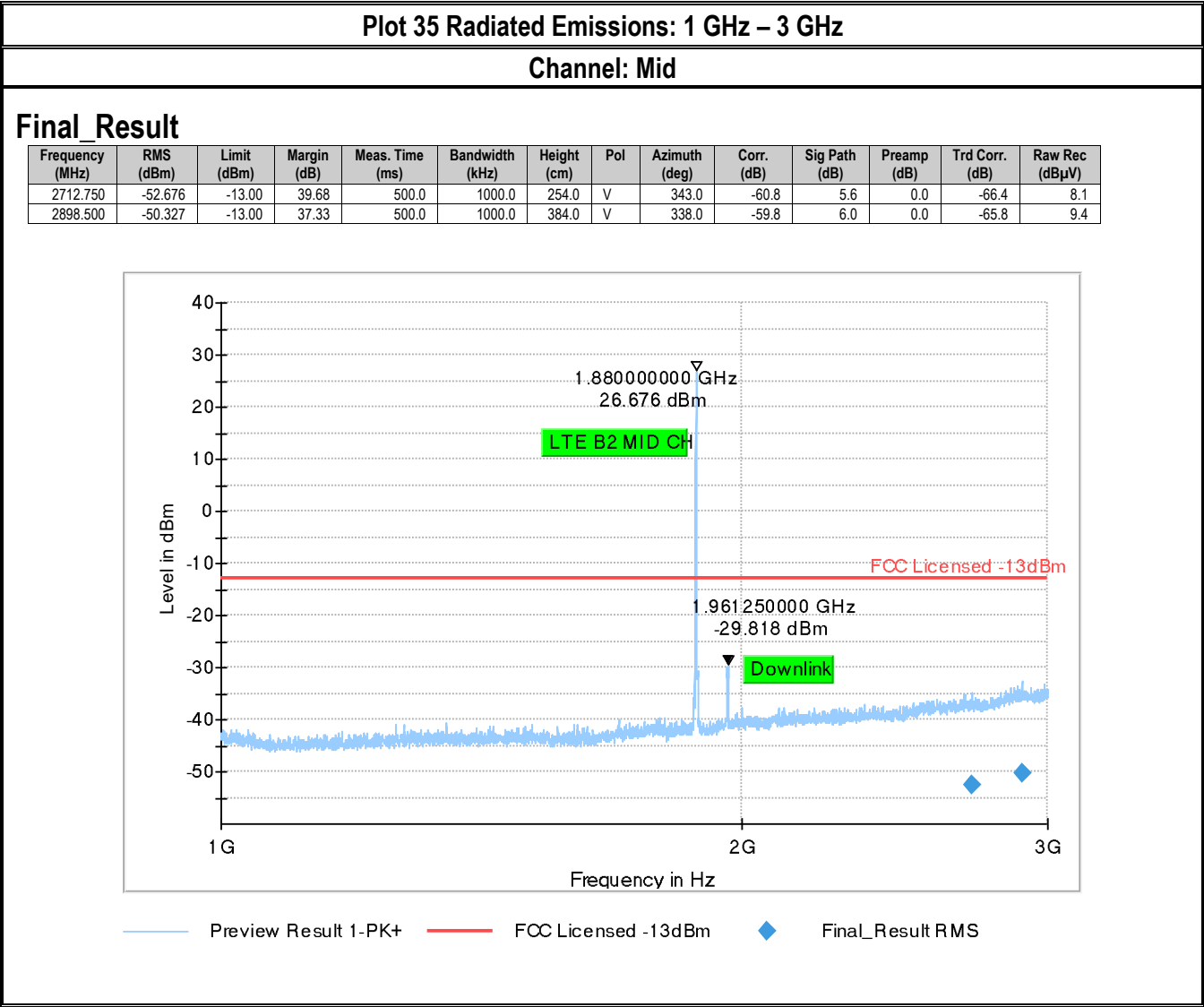
Channel: Low

Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3509.312	-63.066	-13.00	50.07	500.0	1000.0	153.0	V	177.0	-102.3	6.0	-46.0	-62.3	39.2
5635.531	-58.302	-13.00	45.30	500.0	1000.0	159.0	H	172.0	-98.8	7.6	-46.1	-60.3	40.5





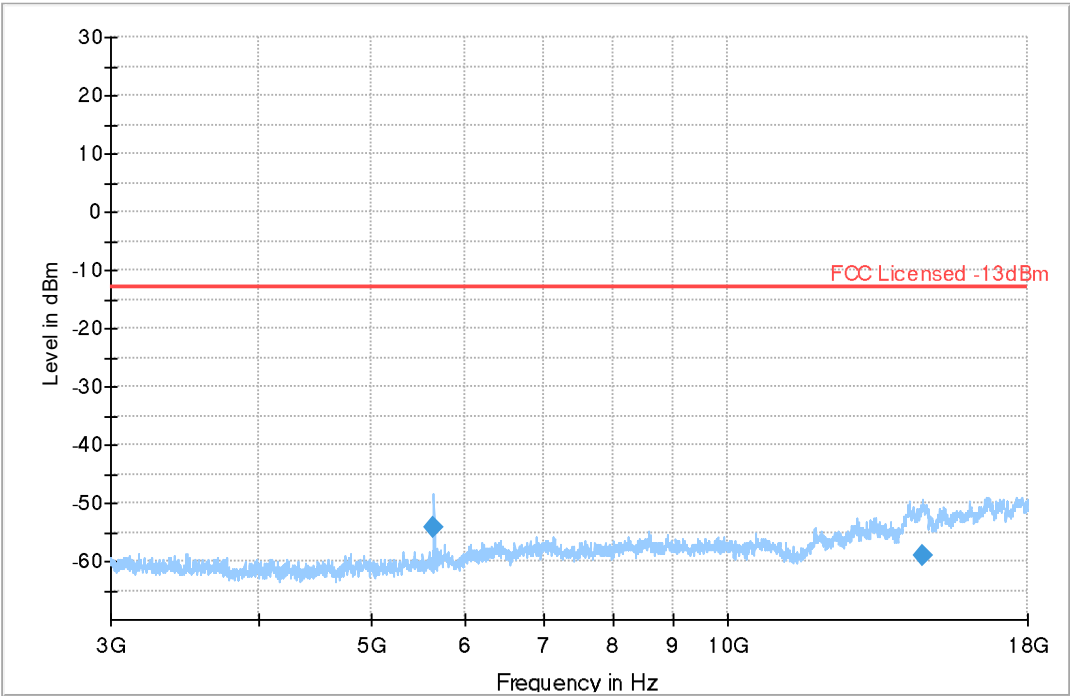


Plot 36 Radiated Emissions: 3 GHz – 18 GHz

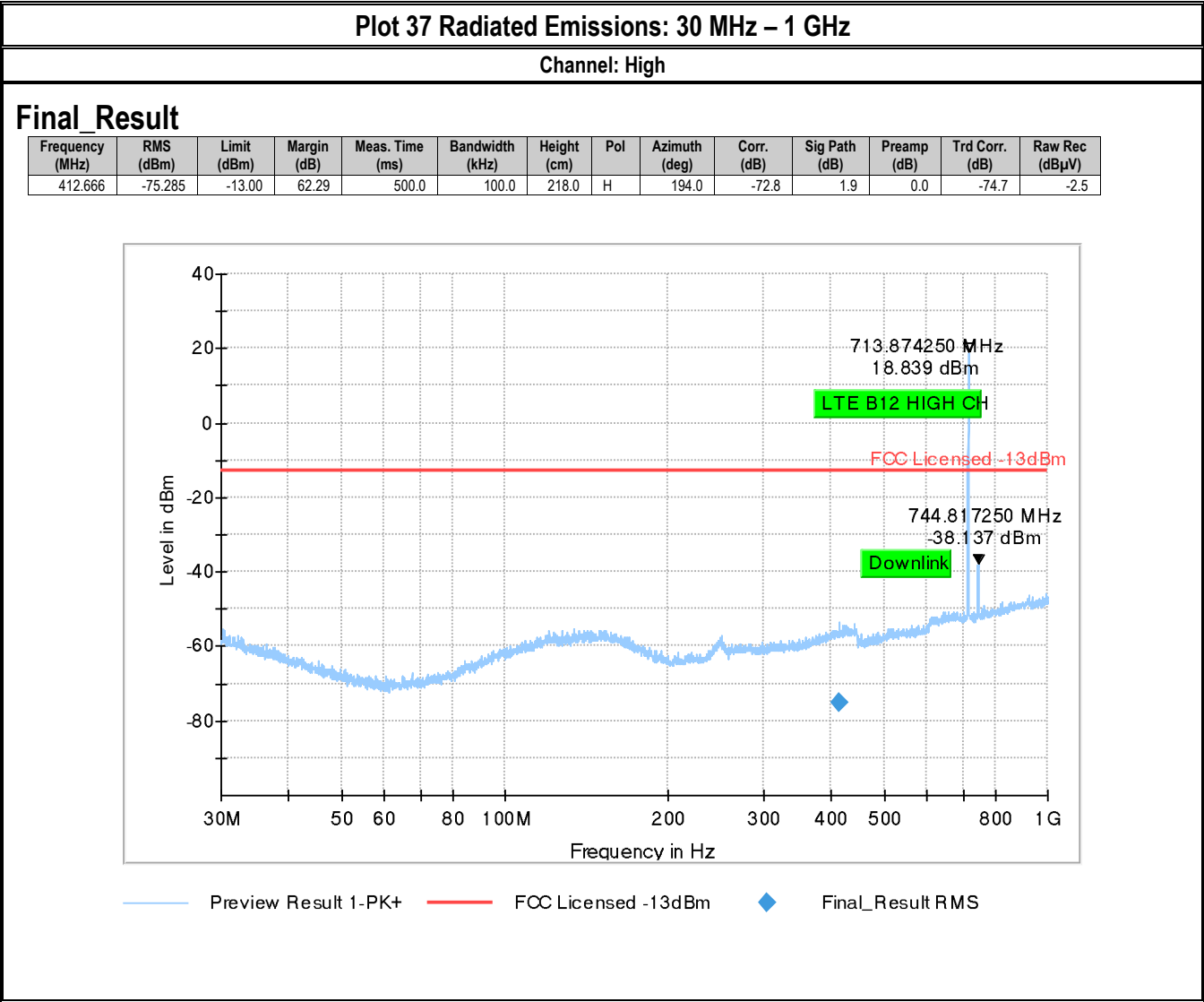
Channel: Mid

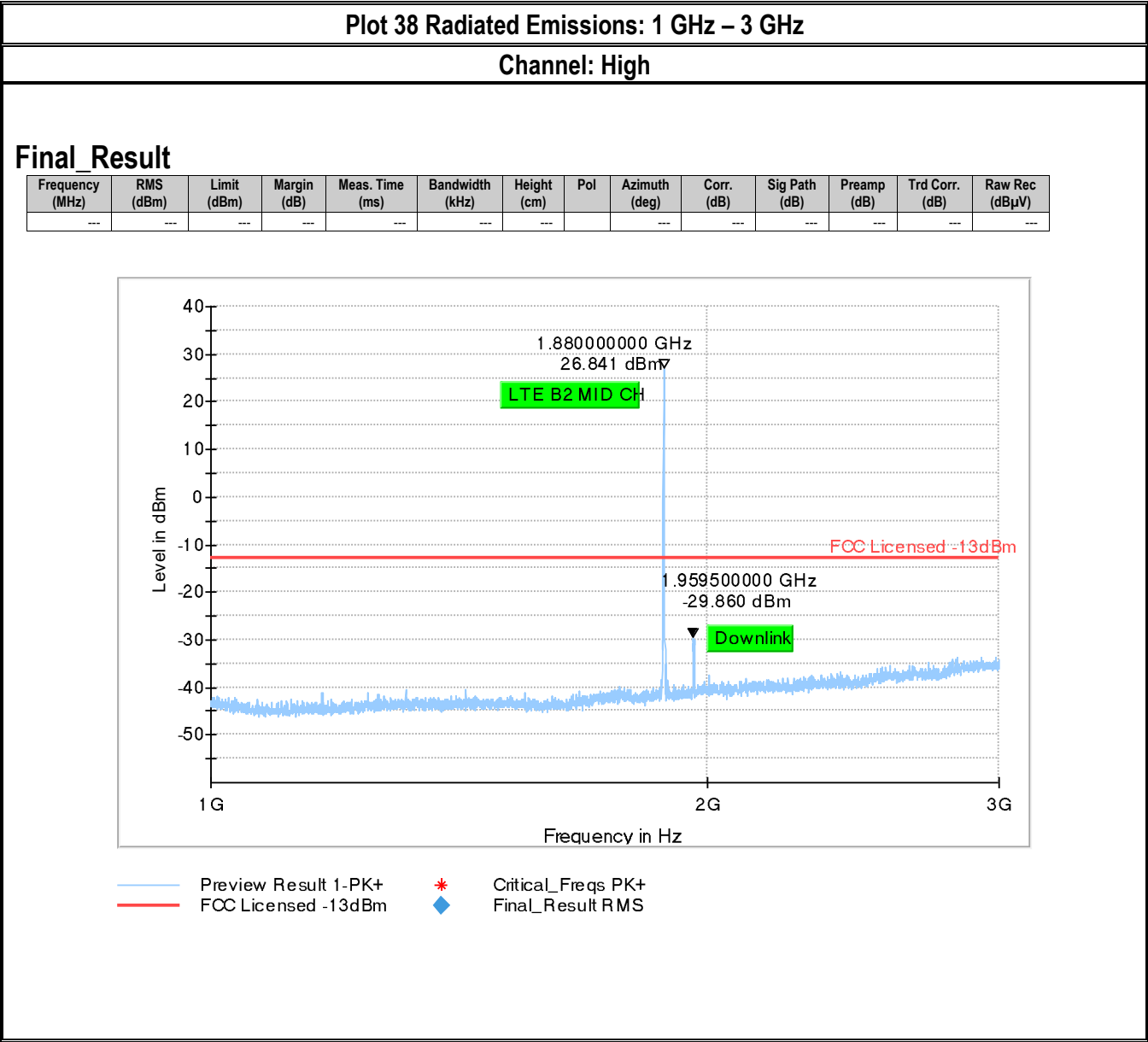
Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
5641.656	-54.193	-13.00	41.19	500.0	1000.0	117.0	H	173.0	-98.8	7.6	-46.1	-60.3	44.6
14649.625	-59.161	-13.00	46.16	500.0	1000.0	318.0	V	29.0	-85.4	13.5	-45.0	-54.0	26.2



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



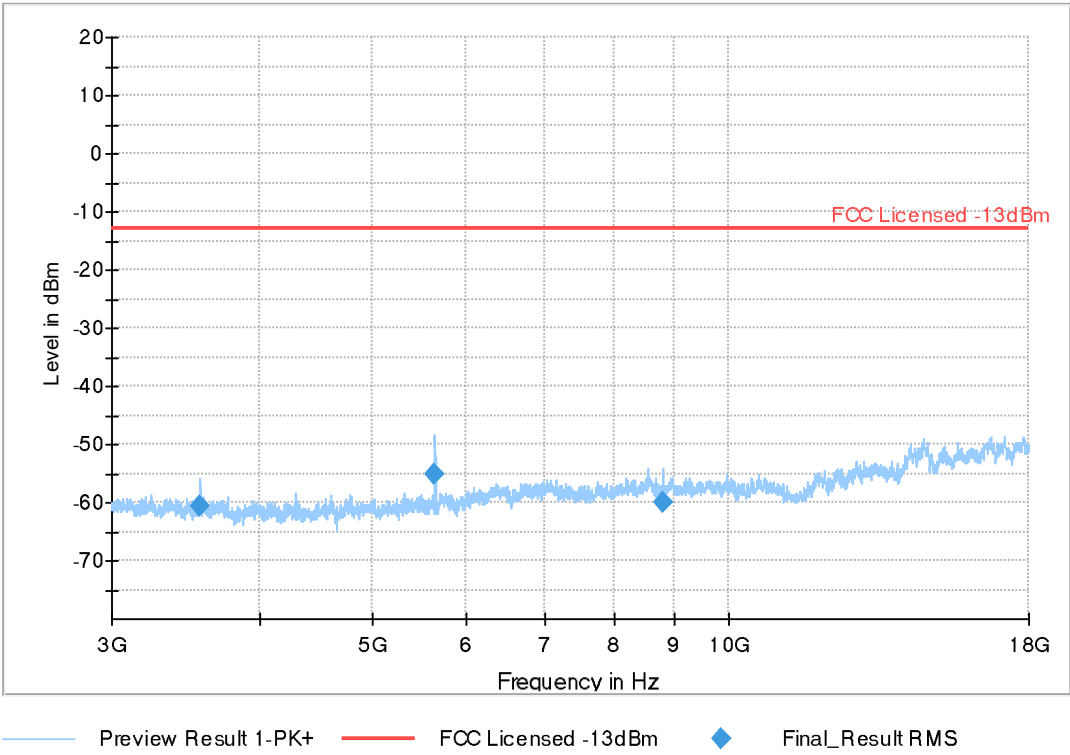


Plot 39 Radiated Emissions: 3 GHz – 18 GHz

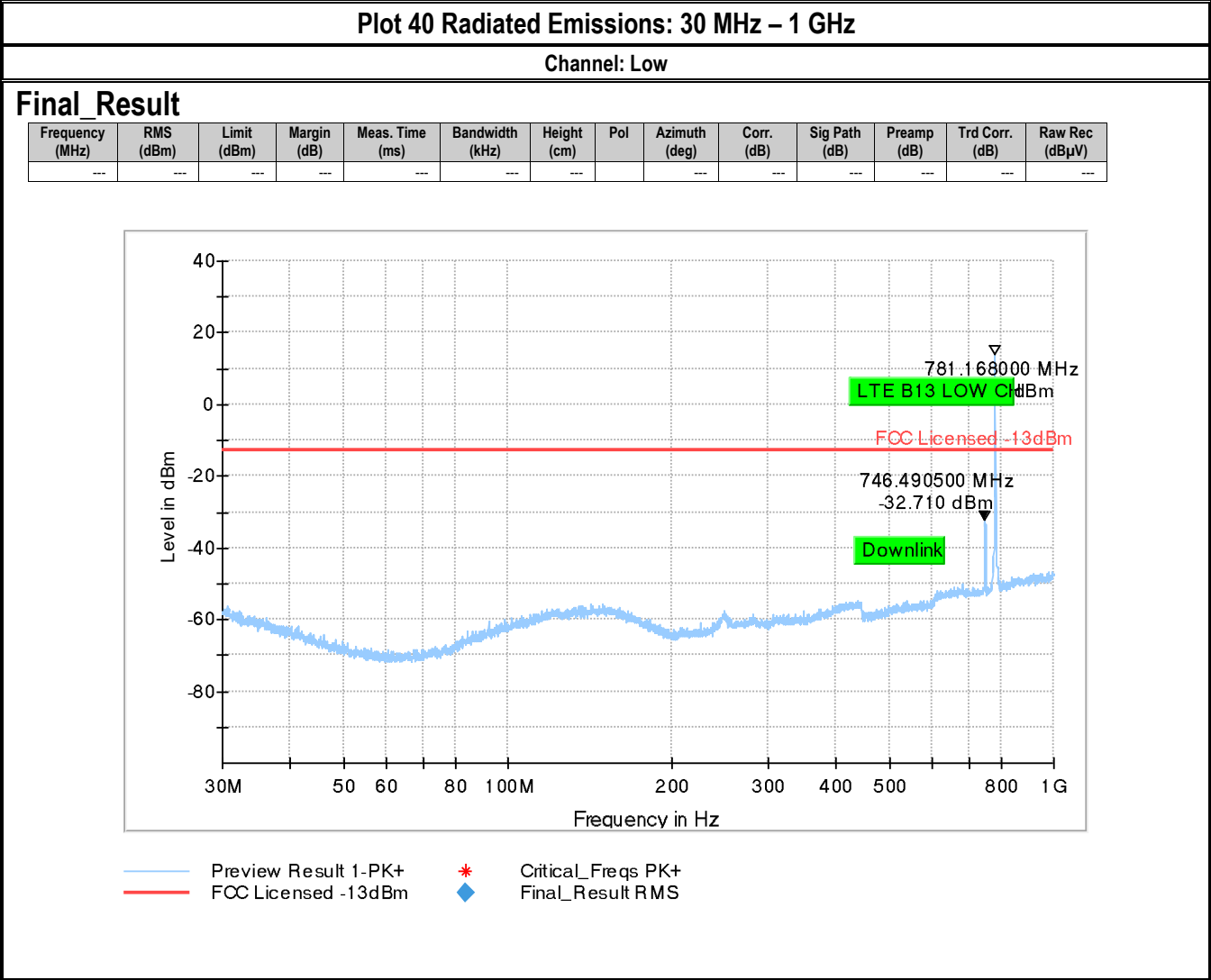
Channel: High

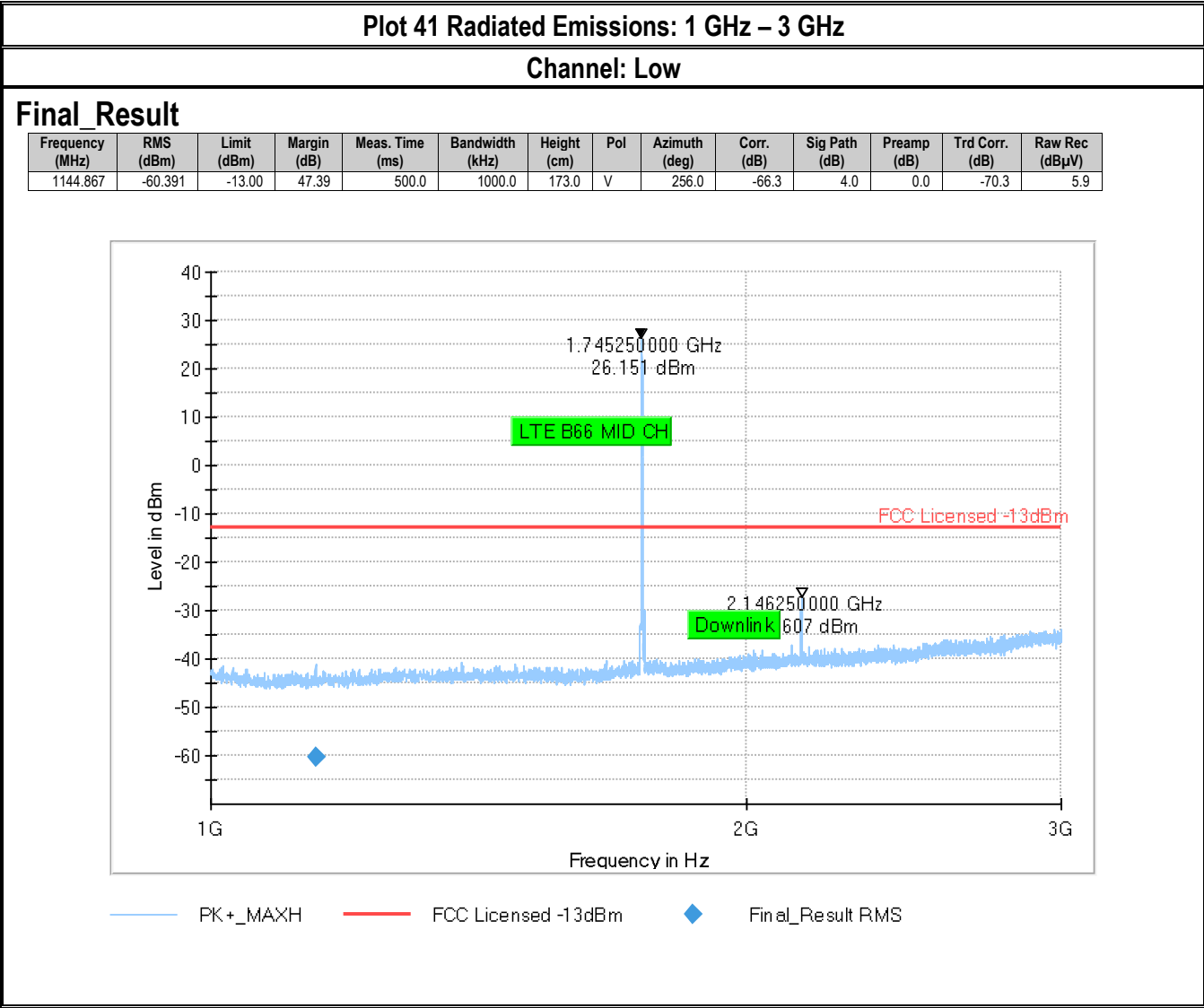
Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preampl (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3569.696	-60.767	-13.00	47.77	500.0	1000.0	326.0	H	139.0	-102.1	6.1	-46.0	-62.2	41.3
5636.718	-55.317	-13.00	42.32	500.0	1000.0	135.0	H	171.0	-98.8	7.6	-46.1	-60.3	43.5
8800.510	-60.038	-13.00	47.04	500.0	1000.0	213.0	H	170.0	-96.4	10.7	-47.8	-59.2	36.3



8.3.5.5 LTE Band 13 (Low/Mid/High) + LTE Band 66 (Mid)



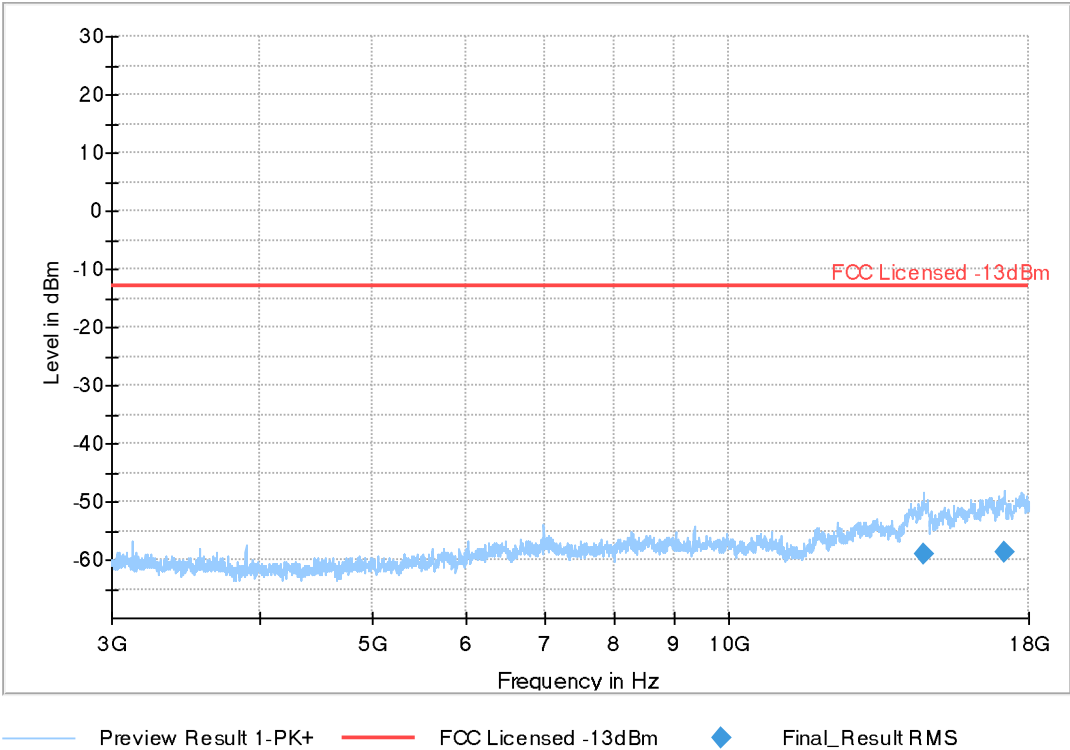


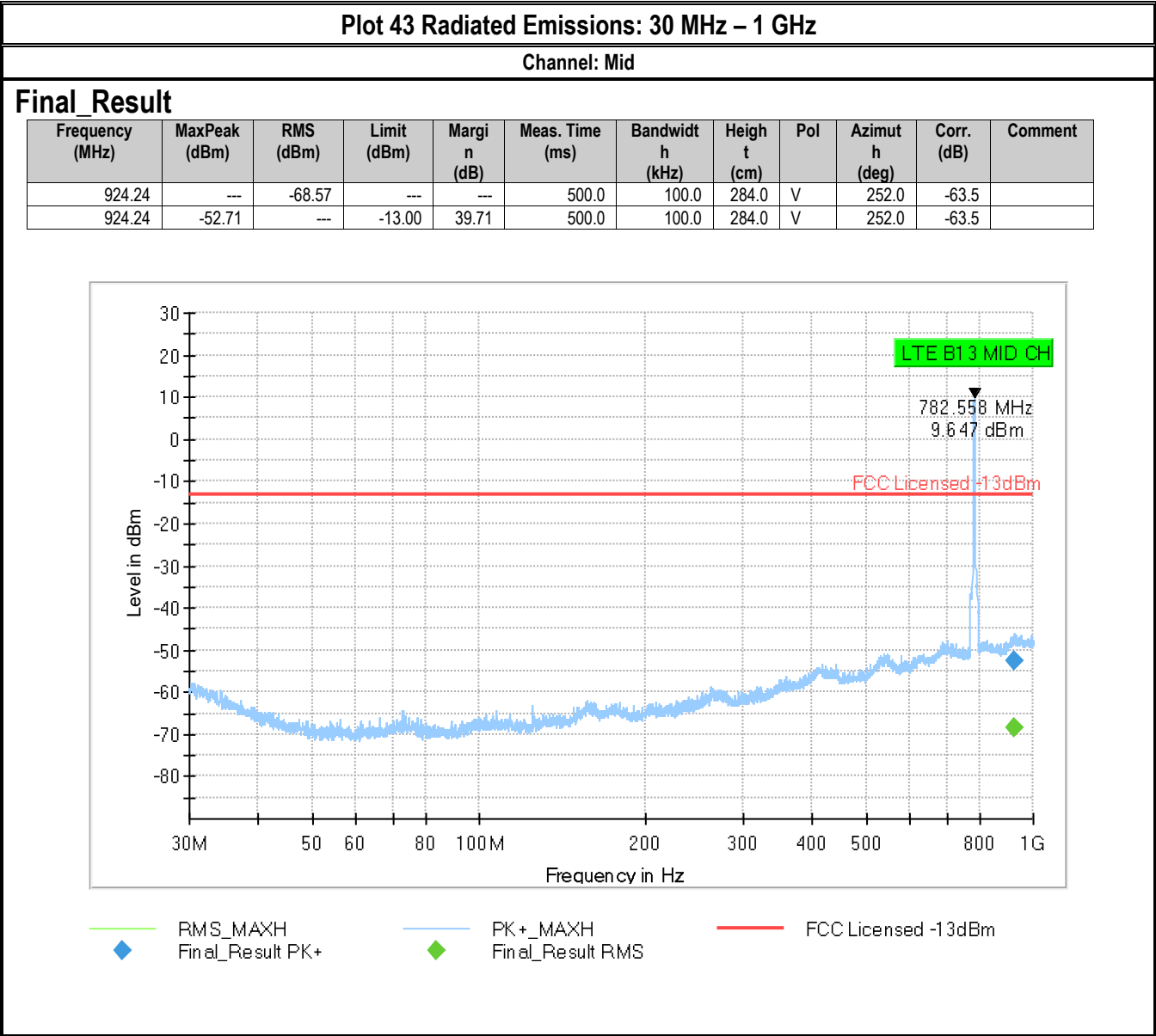
Plot 42 Radiated Emissions: 3 GHz – 18 GHz

Channel: Low

Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
14654.855	-59.025	-13.00	46.02	500.0	1000.0	125.0	V	325.0	-85.4	13.5	-45.0	-53.9	26.3
17167.750	-58.704	-13.00	45.70	500.0	1000.0	384.0	V	284.0	-81.9	15.0	-43.2	-53.7	23.2



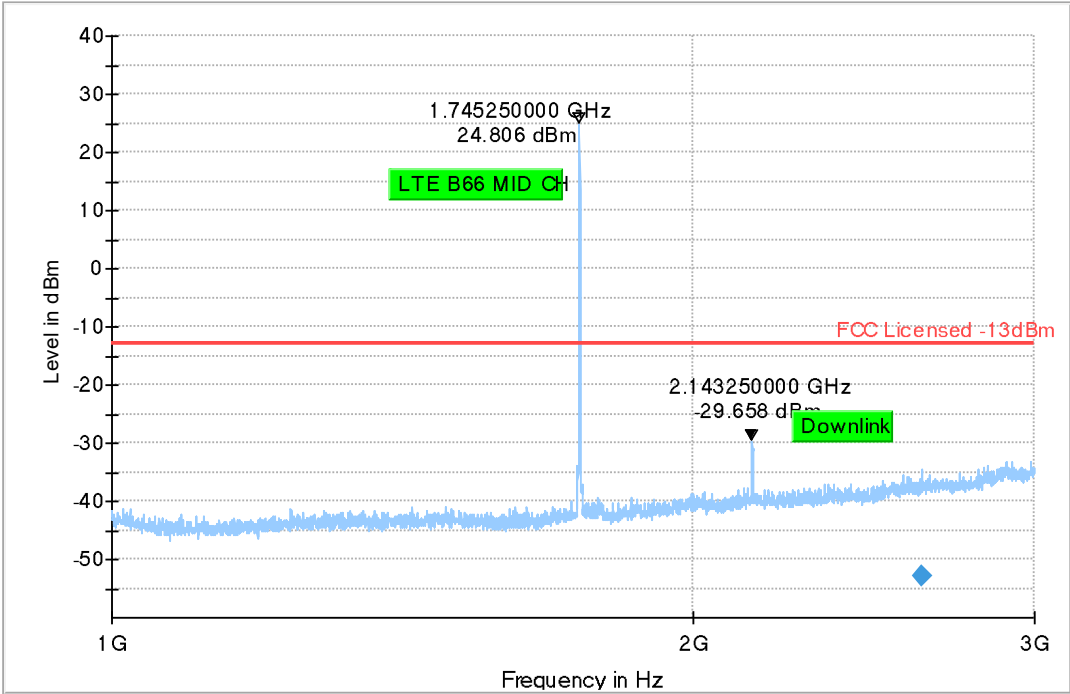


Plot 44 Radiated Emissions: 1 GHz – 3 GHz

Channel: Mid

Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preampl (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2621.500	-52.966	-13.00	39.97	500.0	1000.0	202.0	H	-36.0	-60.7	5.8	0.0	-66.5	7.7



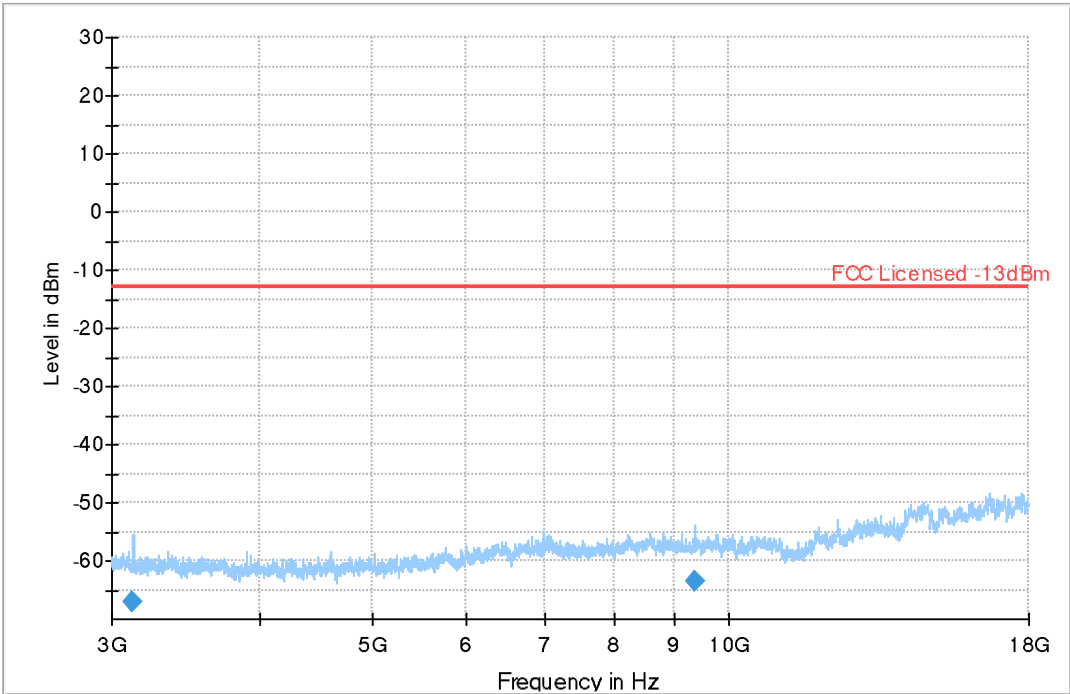
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS

Plot 45 Radiated Emissions: 3 GHz – 18 GHz

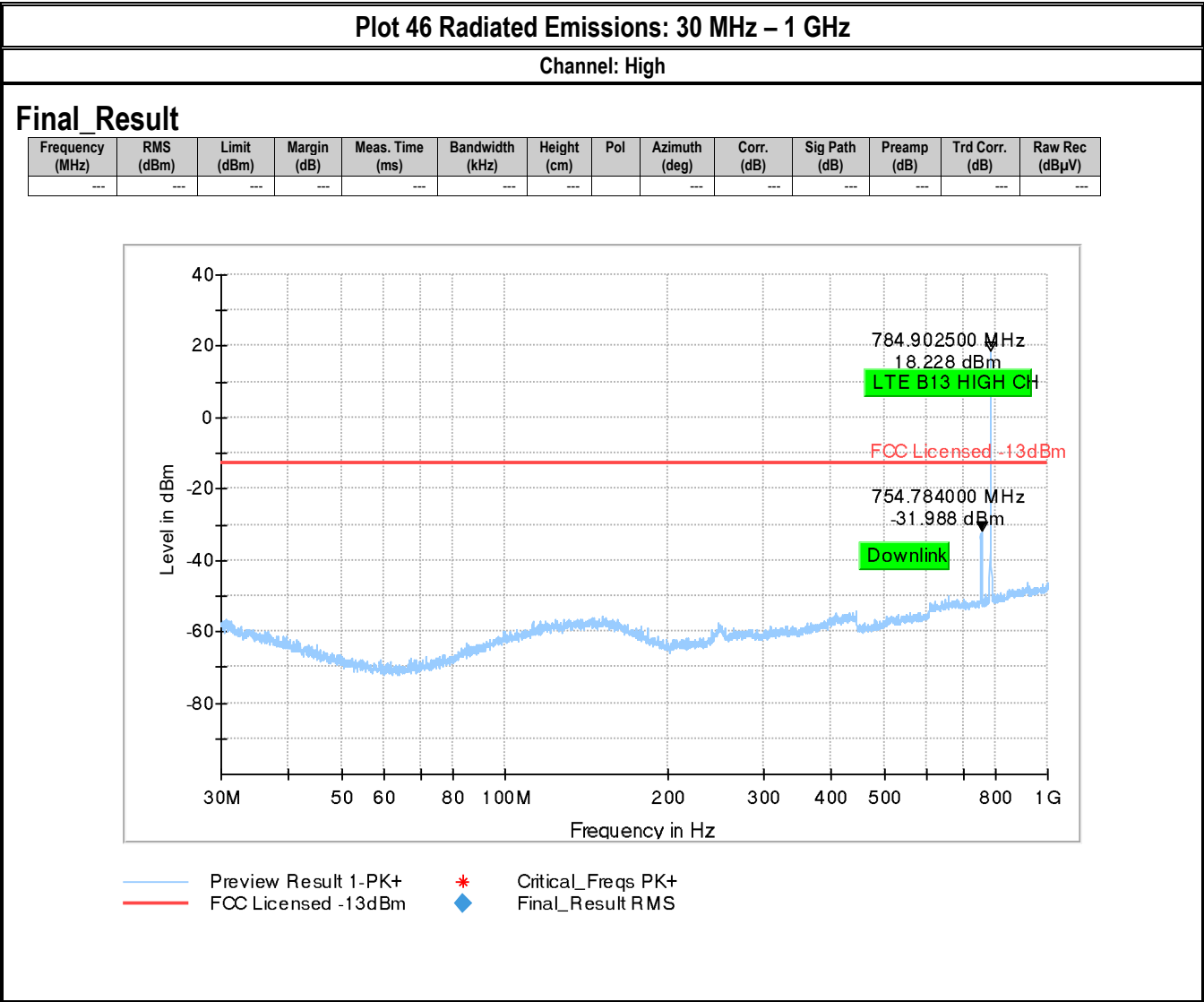
Channel: Mid

Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3128.188	-67.059	-13.00	54.06	500.0	1000.0	335.0	H	136.0	-102.8	5.5	-45.9	-62.4	35.8
9388.844	-63.597	-13.00	50.60	500.0	1000.0	169.0	V	266.0	-95.3	10.5	-47.2	-58.5	31.7



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

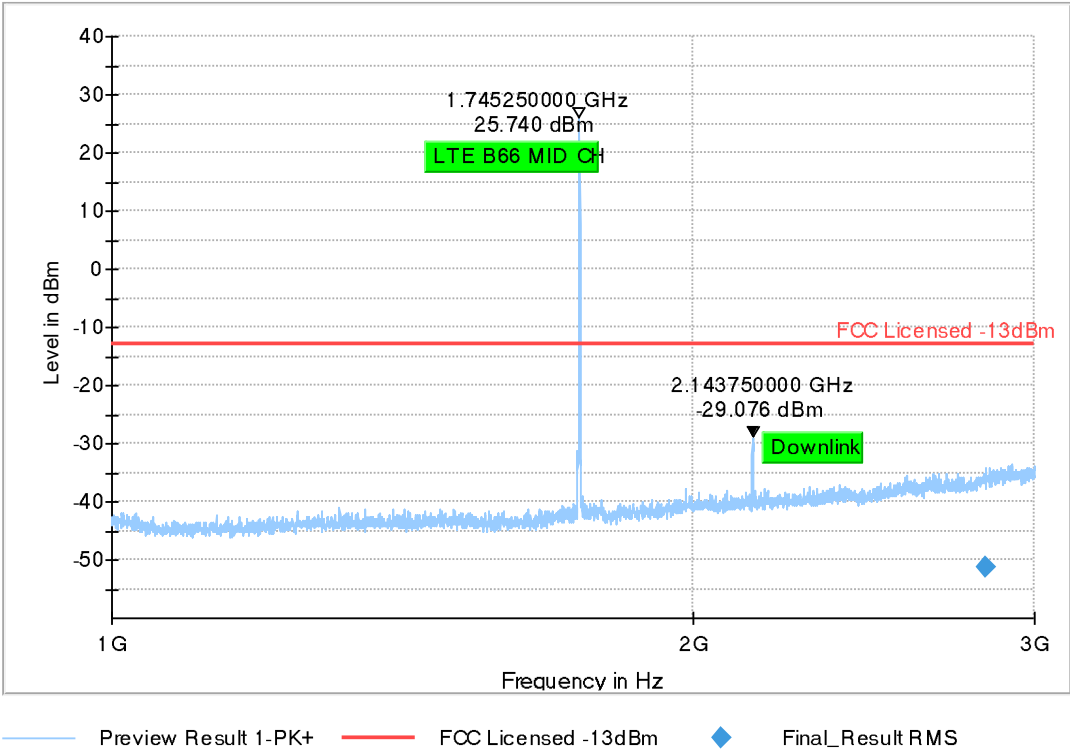


Plot 47 Radiated Emissions: 1 GHz – 3 GHz

Channel: High

Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2830.250	-51.183	-13.00	38.18	500.0	1000.0	237.0	V	48.0	-60.3	5.8	0.0	-66.1	9.1

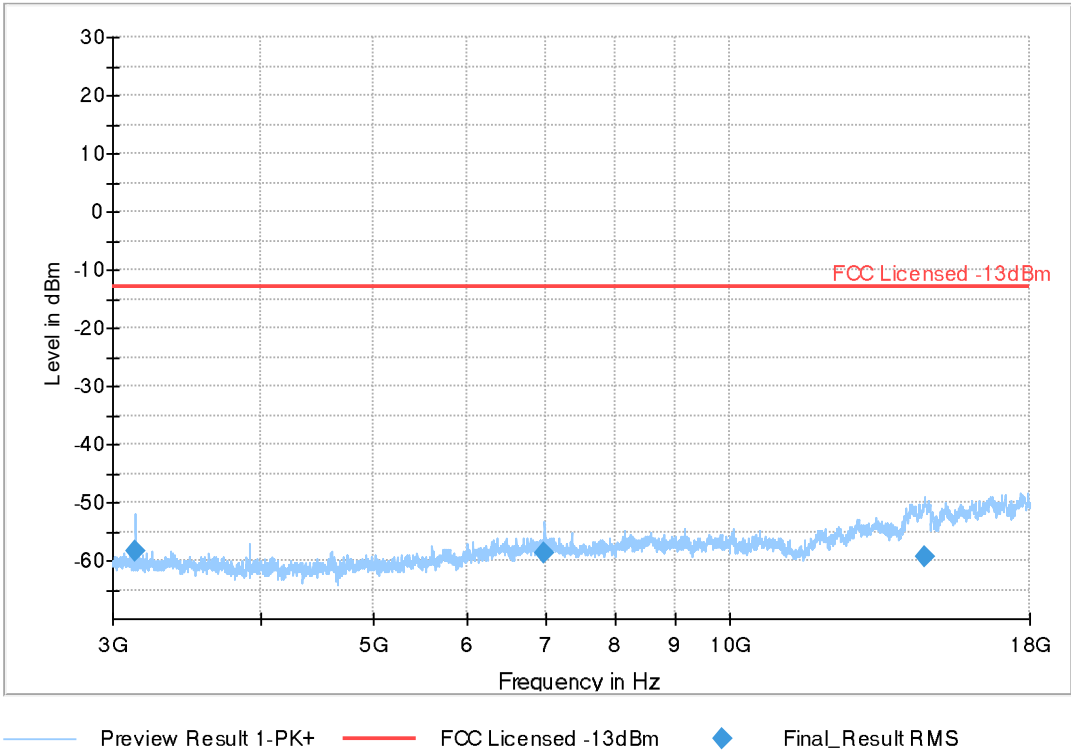


Plot 48 Radiated Emissions: 3 GHz – 18 GHz

Channel: High

Final Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3139.469	-58.390	-13.00	45.39	500.0	1000.0	100.0	V	240.0	-102.8	5.5	-46.0	-62.4	44.4
6979.938	-58.653	-13.00	45.65	500.0	1000.0	151.0	H	176.0	-96.8	8.8	-46.8	-58.8	38.1
14681.469	-59.398	-13.00	46.40	500.0	1000.0	400.0	V	335.0	-85.3	13.6	-45.0	-53.9	25.9



9 Test Setup Photos

The test setup photographs are identified in the separate exhibit EMC_OOMMA_017_25001_FCC_22_24_27_90_Setup_Photos_Rev1.

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	2025-09-08
HORN ANTENNA (1GHz-3GHz)	EMCO	3115	00035111	3 Years	2025-09-04
HORN ANTENNA (3GHz-18GHz)	ETS LINDGREN	3117-PA	00167061	3 Years	2025-09-04
ESW.EMI TEST RECEIVER	ROHDE & SCHWARZ	ESW44	101715	3 Years	2025-12-09
DIGITAL THERMOMETER	Control Company	4410,90080-03	230712972	3 Years	2023-10-18
Multimeter	Fluke	115	56090717MV	3 Years	2025-09-25
Software	EMC32	Version 10.50.40	-	-	-
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	1201.002K50-116865-eG	3 Years	2024-10-03

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
2026-04-30	EMC_OOMMA_017_25001_FCC_22_24_27_90	Initial Version	Art Thammanavarat
2026-04-30	EMC_OOMMA_017_25001_FCC_22_24_27_90_Rev1	- Updated ISED to IC - Section 3.5: Added mode of operation. - Sections 4,7: Added missing RSS-130 Issue 2.	Art Thammanavarat
2026-09-08	EMC_OOMMA_017_25001_FCC_22_24_27_90_Rev2	- Updated the IC designation; added operating-mode details in Section 3.5; included RSS-130, Issue 2, in Sections 4 and 7. - Updated the technical presentation, host EIRP antenna comparison, assessment scope, section references, and report formatting.	Art Thammanavarat

End of Report