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UAB Ruptela TEST REPORT

SCOPE OF WORK

EMC TESTING – Plug5-LTE-NA-BT-WiFi

REPORT NUMBER

105601636LEX-007.2

ISSUE DATE

11/28/2023

REVISED DATE

6/17/2024

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EMC TEST REPORT (FULL COMPLIANCE)

Report Number: 105601636LEX-007.2

Project Number: G105601636

Report Issue Date: 11/28/2023

Report Revised Date: 6/17/2024

FCC Test Firm Designation Number: US1112

ISED Company Number: 2042M

CAB Identifier: US0127

Model(s) Tested: Plug5-LTE-NA-BT-WiFi

Standards: FCC Title 47 CFR Parts 22, 24, 27, 90
RSS-130 Issue 2, RSS-132 Issue 4,
RSS-133 Issue 6, RSS-139 Issue 4,
RSS-140 Issue 1

Tested by:
Intertek Testing Services NA, Inc.
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Lexington, KY 40510
USA

Client:
UAB Ruptela
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Report prepared by



Brian Lackey, Staff Engineer

Report reviewed by



Michael Carlson, Team Leader

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1 Introduction and Conclusion

The tests indicated in section 2.0 were performed on the product constructed as described in section 4.0. The remaining test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test Method, a list of the actual Test Equipment Used, documentation Photos, Results and raw Data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted.

Based on the results of our investigation, we have concluded the product tested **complies** with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

2 Test Summary

Section	Test full name	Result
6	Radiated Spurious Emissions (Transmitters Active) (ANSI C63.26:2015)	Pass



3 Client Information

This product was tested at the request of the following:

Client Information	
Client Name:	UAB Ruptela
Address:	Perkūnkiemio str. 6. 12130 Vilnius Lithuania
Contact:	Tomas Slavinskas
Telephone:	+370 (6) 598-733
Email:	tomas.slavinskas@ruptela.com
Manufacturer Information	
Manufacturer Name:	UAB Ruptela
Manufacturer Address:	Perkūnkiemio str. 6. 12130 Vilnius Lithuania



4 Description of Equipment under Test and Variant Models

Equipment Under Test	
Product Name	Plug5
Model Number	Plug5-LTE-NA-BT-WiFi
Serial Number	865648065985509
FCC ID	2BFH8PLUG5LTE
IC	32278-PLUG5LTE
Hardware Version	FTXW-04-62530
Software Version	00.06.00.00
Supported Transmit Bands	LTE Bands: B2/B4/B5/B12/B14
Embedded Module	EC25-AFDL
Embedded Module hardware Version	R1.0
Embedded Module Software Version	EC25AFDLGAR07A01 M4G
Embedded Module FCC ID	XMR2021EC25AFDL
Embedded Module IC	10224A-21EC25AFDL
Receive Date	9/13/2023
Test Start Date	10/26/2023
Test End Date	11/21/2023
Device Received Condition	Good
Test Sample Type	Production
Rated Voltage	3.7VDC Battery
Description of Equipment Under Test (provided by client)	
The Plug5-LTE-NA-BT-WiFi is a wireless device capable of the following bands: 2,4,5,12,14.	

4.1 Variant Models:

There were no variant models covered by this evaluation.



5 System Setup and Method

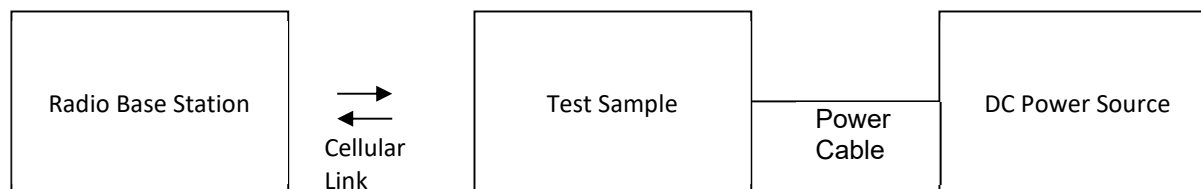
5.1 Method:

Configuration as required by ANSI C63.26:2015.

No.	Descriptions of EUT Exercising
1	DC Power: On, Cell Radio: On and transmitting to the CMW 500 base station simulator

Cables					
ID	Description	Length (m)	Shielding	Ferrites	Termination
1	None	N/A	N/A	N/A	

5.2 EUT Block Diagram:





5.3 EUT Photo (Front):





5.4 EUT Photo (Back):





6 Radiated Emissions

6.1 Method

Tests are performed in accordance with ANSI C63.26:2015.

TEST SITE: 10m ALSE

Site Designation: 10m Chamber

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucisp
Radiated Emissions, 10m	30-1000 MHz	3.9dB	6.3 dB
Radiated Emissions, 3m	30-1000 MHz	4.0dB	6.3 dB
Radiated Emissions, 3m	1-6 GHz	4.7dB	5.2 dB
Radiated Emissions, 3m	6-15 GHz	4.7dB	5.5 dB
Radiated Emissions, 3m	15-18 GHz	4.7dB	5.5 dB
Radiated Emissions, 3m	18-40 GHz	4.7dB	5.5 dB

As shown in the table above our radiated emissions U_{lab} is less than the corresponding U_{CISPR} reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required.



6.2 Sample Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG$$

Where

FS = Field Strength in dB μ V/m

RA = Receiver Amplitude (including preamplifier) in dB μ V

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

$$RA = 52.0 \text{ dB}\mu\text{V}$$

$$AF = 7.4 \text{ dB/m}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$FS = 32 \text{ dB}\mu\text{V/m}$$

To convert from dB μ V to μ V or mV the following was used:

$$UF = 10^{(NF / 20)} \text{ where } UF = \text{Net Reading in } \mu\text{V}$$

$$NF = \text{Net Reading in dB}\mu\text{V}$$

Example:

$$FS = RA + AF + CF - AG = 52.0 + 7.4 + 1.6 - 29.0 = 32.0$$

$$UF = 10^{(32 \text{ dB}\mu\text{V} / 20)} = 39.8 \mu\text{V/m}$$

6.3 Field Strength to Power Calculation

As allowable by ANSI C63.26: 2015 section 5.2.7, the output power of unwanted emissions can be calculated from a field strength measurement. The transmitter measurements that follow in this report have applied the following calculation to the -13dBm limit to arrive an equivalent field strength limit at 3 meters as follows:

$E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$; where D is the measurement distance (in the far field region) in m.

Example:

$$\text{Limit (dB}\mu\text{V/m)} = -13 - 20\log(3) + 104.8 = 82.25 \text{ dB}\mu\text{V/m}$$

**6.4 Test Equipment Used:**

Description	Asset	Manufacturer	Model	Cal Date	Cal Due
EMI Test Receiver	8285	Rohde&Schwarz	ESW44	9/19/2023	9/19/2024
Bilog Antenna	7085	SunAR	JB6	3/7/2023	3/7/2024
Horn Antenna	4001	ETS Lindgren	3117	2/28/2023	2/28/2024
System Controller	4096	ETS Lindgren	2090	Verify at Time of Use	Verify at Time of Use
System Controller	3957	Sunol Sciences	SC99V	Verify at Time of Use	Verify at Time of Use
Preamplifier	3918	TS-PR18	122005	10/5/2023	10/5/2024
Coaxial Cable	3074			10/5/2023	10/5/2024
Coaxial Cable	2588			10/5/2023	10/5/2024
Coaxial Cable	2593			10/5/2023	10/5/2024
Coaxial Cable	2592			10/5/2023	10/5/2024
Coaxial Cable	8188			10/5/2023	10/5/2024
Coaxial Cable	8185			10/5/2023	10/5/2024

6.5 Software Utilized:

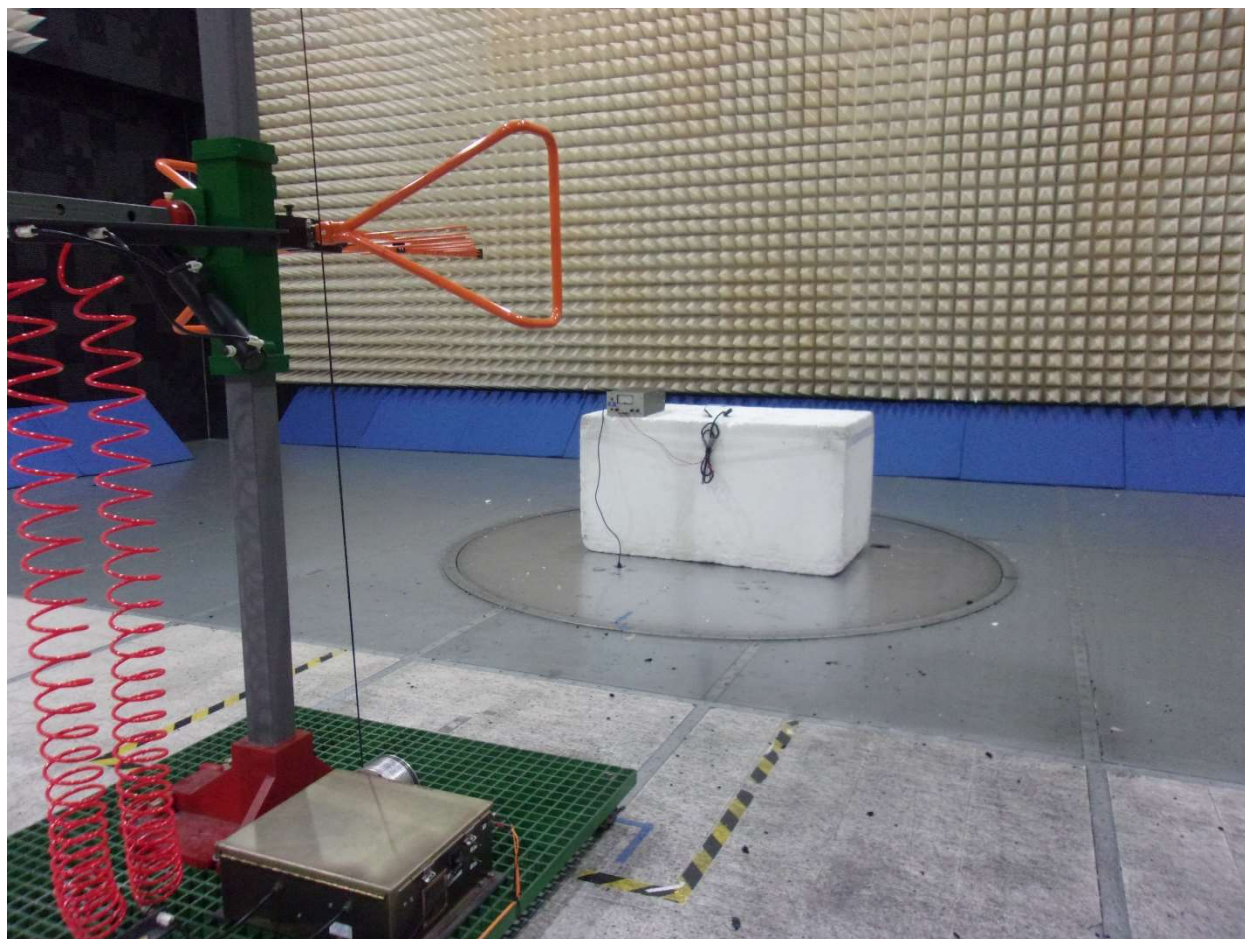
Name	Manufacturer	Version
EMC32	Rohde & Schwarz	Version 10.60.20

6.6 Results:

The sample tested was found to Comply.

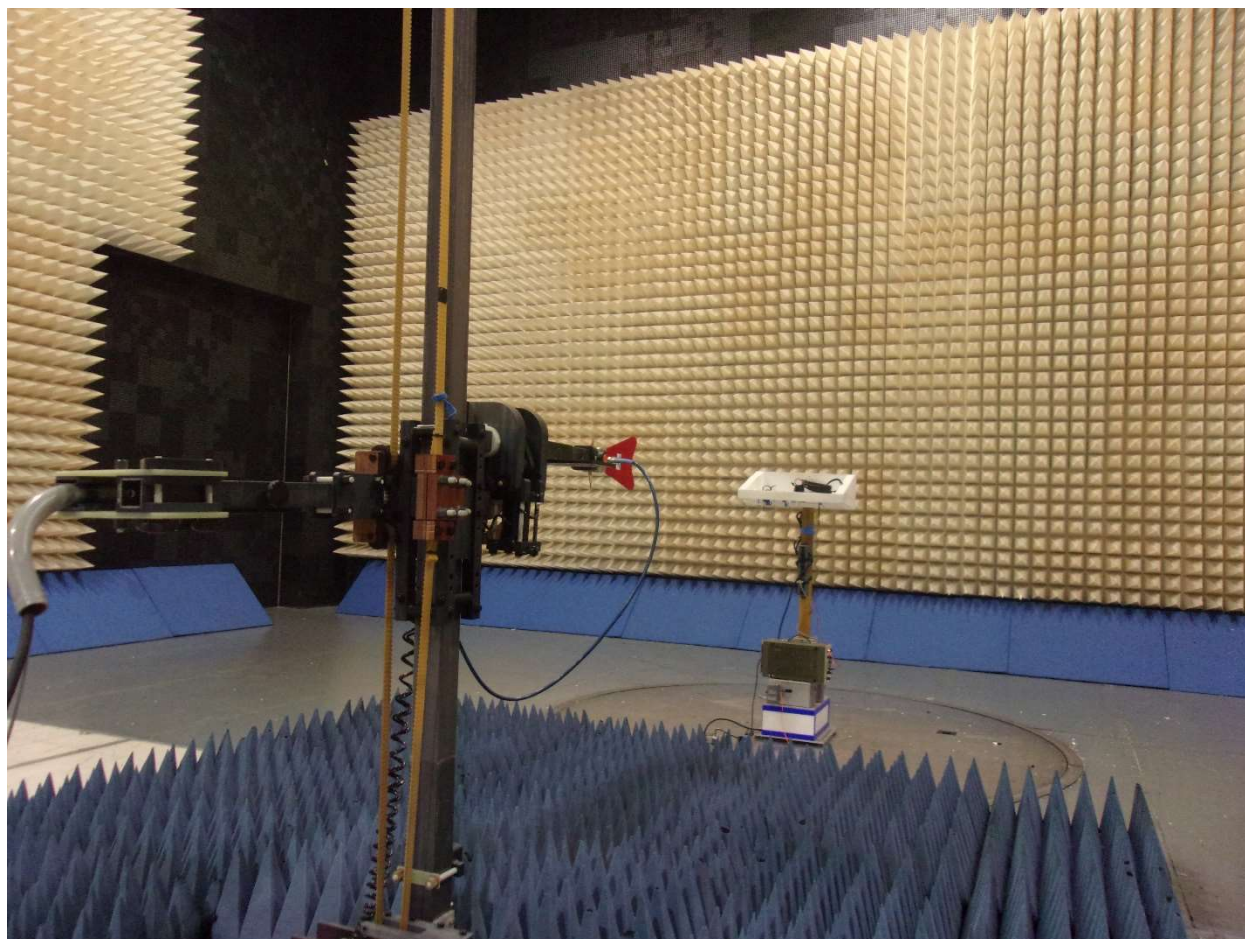


6.7 Setup Photographs: Radiated Spurious Emissions (30MHz – 1GHz)





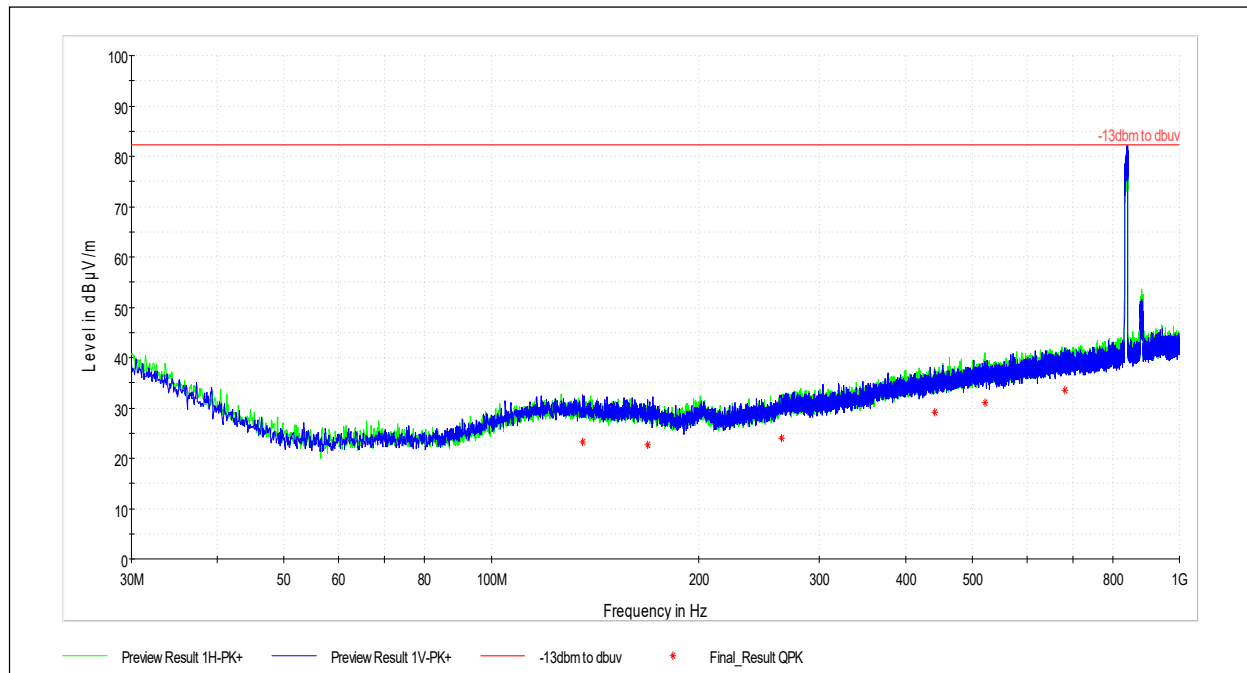
6.8 Setup Photographs: Radiated Spurious Emissions (1GHz – 18GHz)





6.9 Radiated Spurious Emissions (LTE B5)

6.9.1 Radiated Spurious Emissions, 30 MHz – 1 GHz



The large peak shown is the fundamental frequency of the operating bands.

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
135.838	23.32	82.25	58.93	138.0	V	270.0	20.5
168.818	22.59	82.25	59.66	119.0	V	90.0	19.7
264.093	23.93	82.25	58.32	179.0	V	130.0	21.0
440.310	29.21	82.25	53.04	250.0	H	250.0	25.2
521.628	31.14	82.25	51.11	225.0	H	169.0	26.7
681.678	33.45	82.25	48.80	218.0	H	284.0	29.5

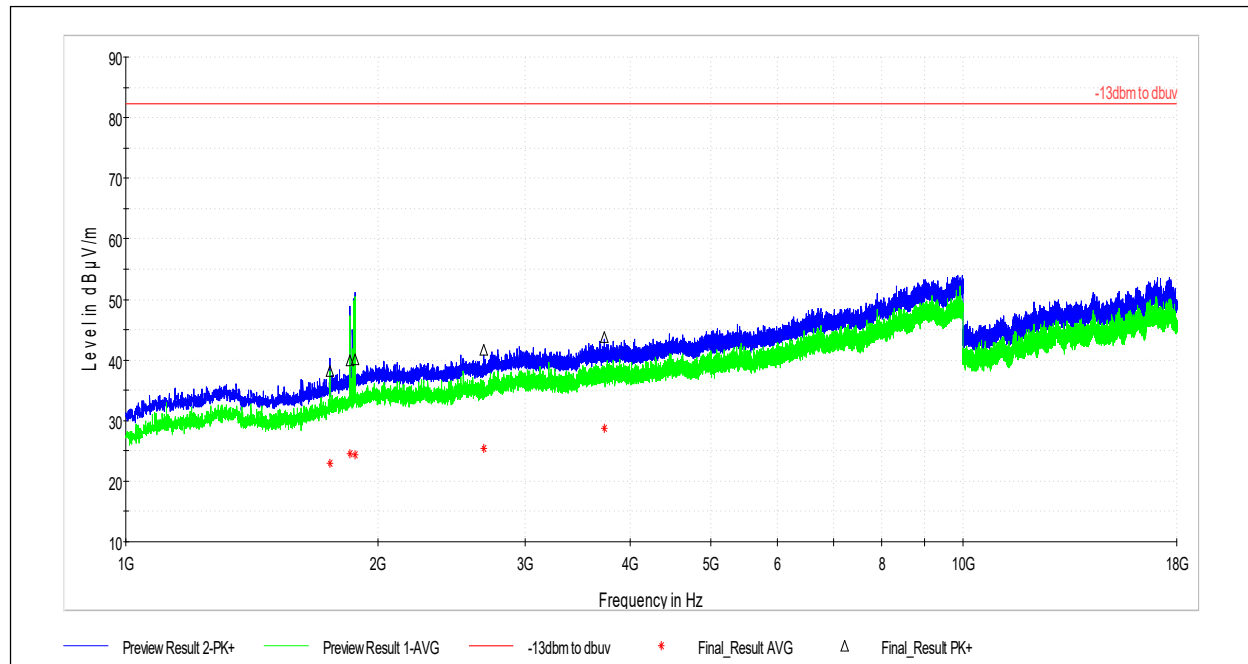
Test Personnel: Jordan Coughenour
Supervising/Reviewing Engineer: Michael Carlson
(Where Applicable) FCC Part 22
Product Standard: RSS-132 Issue 4
Input Voltage: 12VDC
Pretest Verification w / Ambient Signals or BB Source: Yes

Test Date: 11/21/2023
Limit Applied: -13dBm converted to field strength
Ambient Temperature: 23.0 °C
Relative Humidity: 39.3 %
Atmospheric Pressure: 978.9 mbar

Deviations, Additions, or Exclusions: None



6.9.2 Radiated Spurious Emissions, 1 GHz – 18 GHz



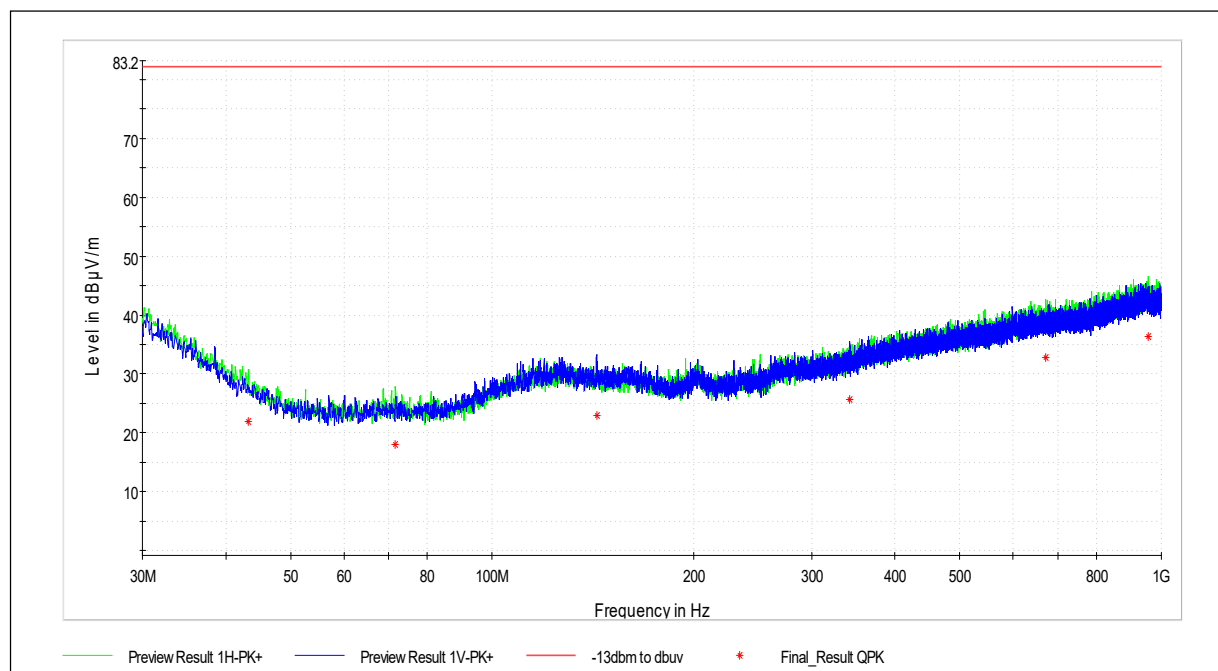
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1753.500	38.19	82.25	44.06	304.0	V	0.0	1.8
1852.000	39.96	82.25	42.29	321.0	H	0.0	2.8
1879.500	40.14	82.25	42.11	134.0	V	0.0	3.1
2676.000	41.70	82.25	40.55	201.0	H	0.0	5.2
3731.000	43.81	82.25	38.44	230.0	V	205.0	7.6

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1753.500	23.04	82.25	59.21	304.0	V	0.0	1.8
1852.000	24.51	82.25	57.74	321.0	H	0.0	2.8
1879.500	24.27	82.25	57.98	134.0	V	0.0	3.1
2676.000	25.38	82.25	56.87	201.0	H	0.0	5.2
3731.000	28.73	82.25	53.52	230.0	V	205.0	7.6

Test Personnel: Michael Carlson
Supervising/Reviewing Engineer: N/A
(Where Applicable)
FCC Part 22
Product Standard: RSS-132 Issue 4
Input Voltage: 12VDC
Pretest Verification w / Ambient Signals or BB Source: Yes

Test Date: 11/21/2023
Limit Applied: -13dBm converted to field strength
Ambient Temperature: 23.0 °C
Relative Humidity: 39.3 %
Atmospheric Pressure: 978.9 mbar

Deviations, Additions, or Exclusions: None

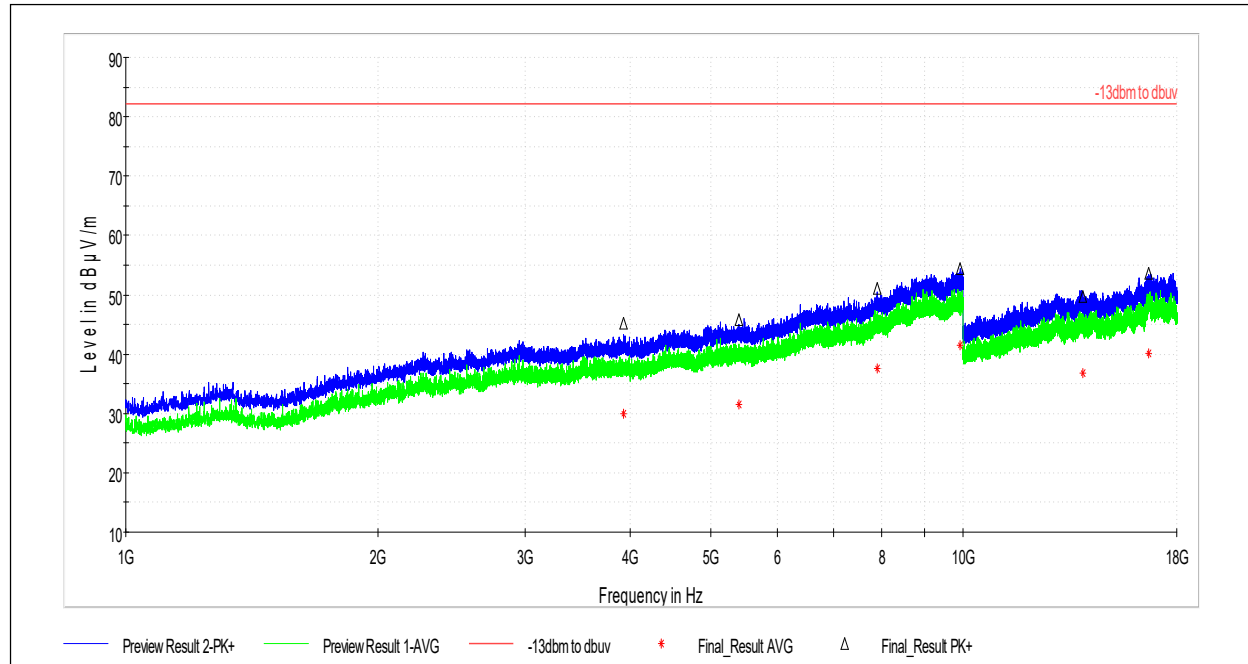
**6.10 Radiated Spurious Emissions (LTE B2)****6.10.1 Radiated Spurious Emissions, 30 MHz – 1 GHz**

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.203	21.87	82.25	60.38	345.0	H	140.0	18.7
71.656	18.10	82.25	64.15	380.0	H	240.0	14.9
143.167	22.91	82.25	59.34	228.0	V	215.0	20.2
342.448	25.71	82.25	56.54	312.0	V	27.0	22.4
671.278	32.76	82.25	49.49	216.0	H	247.0	29.2
955.973	36.31	82.25	45.94	250.0	H	270.0	32.8

Test Personnel: Jordan Coughenour
Supervising/Reviewing Engineer: Michael Carlson
(Where Applicable) FCC Part 24
Product Standard: RSS-133 Issue 6
Input Voltage: 12VDC
Pretest Verification w / Ambient Signals or BB Source: Yes

Test Date: 11/21/2023
Limit Applied: -13dBm converted to field strength
Ambient Temperature: 23.0 °C
Relative Humidity: 39.3 %
Atmospheric Pressure: 978.9 mbar

Deviations, Additions, or Exclusions: None

**6.10.2 Radiated Spurious Emissions, 1 GHz – 18 GHz**

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3928.000	45.16	82.25	37.09	232.0	H	170.0	8.1
5404.000	45.76	82.25	36.49	100.0	V	0.0	10.4
7890.000	51.04	82.25	31.21	109.0	H	328.0	14.2
9928.500	54.34	82.25	27.91	389.0	V	179.0	16.5
13892.500	49.72	82.25	32.53	100.0	V	0.0	20.6
16656.500	53.54	82.25	28.71	100.0	V	237.0	25.6

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3928.000	30.00	82.25	52.25	232.0	H	170.0	8.1
5404.000	31.45	82.25	50.80	100.0	V	0.0	10.4
7890.000	37.63	82.25	44.62	109.0	H	328.0	14.2
9928.500	41.41	82.25	40.84	389.0	V	179.0	16.5
13892.500	36.71	82.25	45.54	100.0	V	0.0	20.6
16656.500	40.05	82.25	42.20	100.0	V	237.0	25.6

Test Personnel: Michael Carlson
Supervising/Reviewing Engineer: N/A
(Where Applicable) FCC Part 24
Product Standard: RSS-133 Issue 6
Input Voltage: 12VDC
Pretest Verification w / Ambient Signals or BB Source: Yes

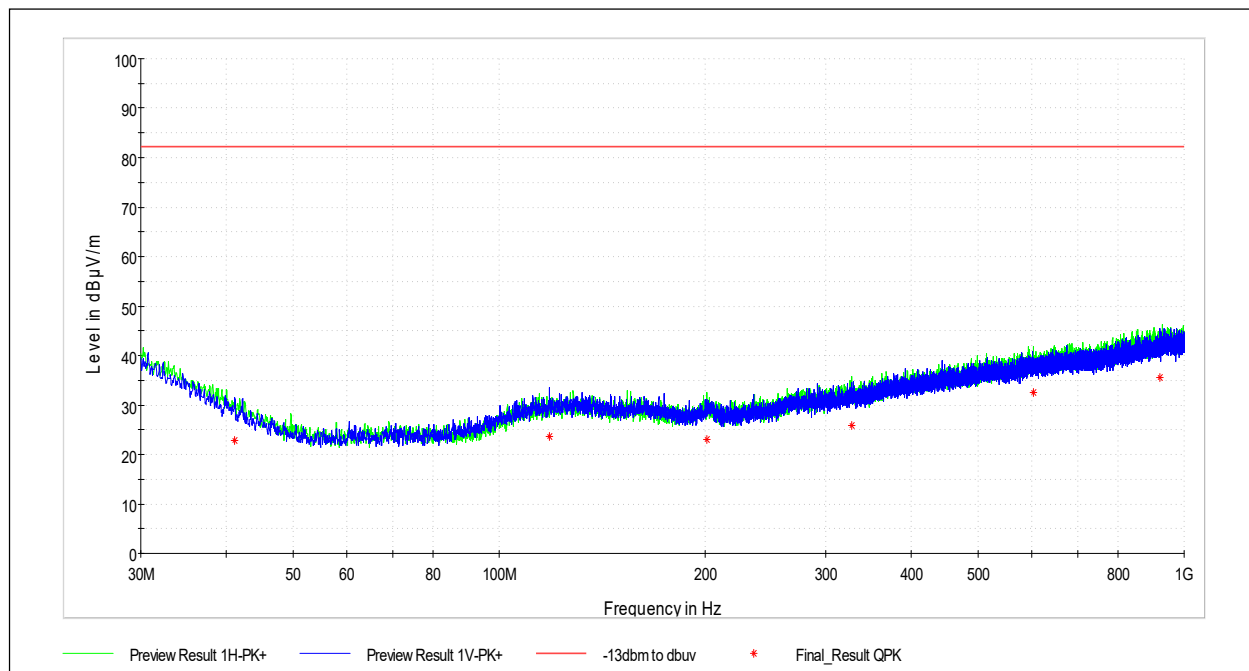
Test Date: 11/21/2023
Limit Applied: -13dBm converted to field strength
Ambient Temperature: 23.0 °C
Relative Humidity: 39.3 %
Atmospheric Pressure: 978.9 mbar

Deviations, Additions, or Exclusions: None



6.11 Radiated Spurious Emissions (LTE B4)

6.11.1 Radiated Spurious Emissions, 30 MHz – 1 GHz

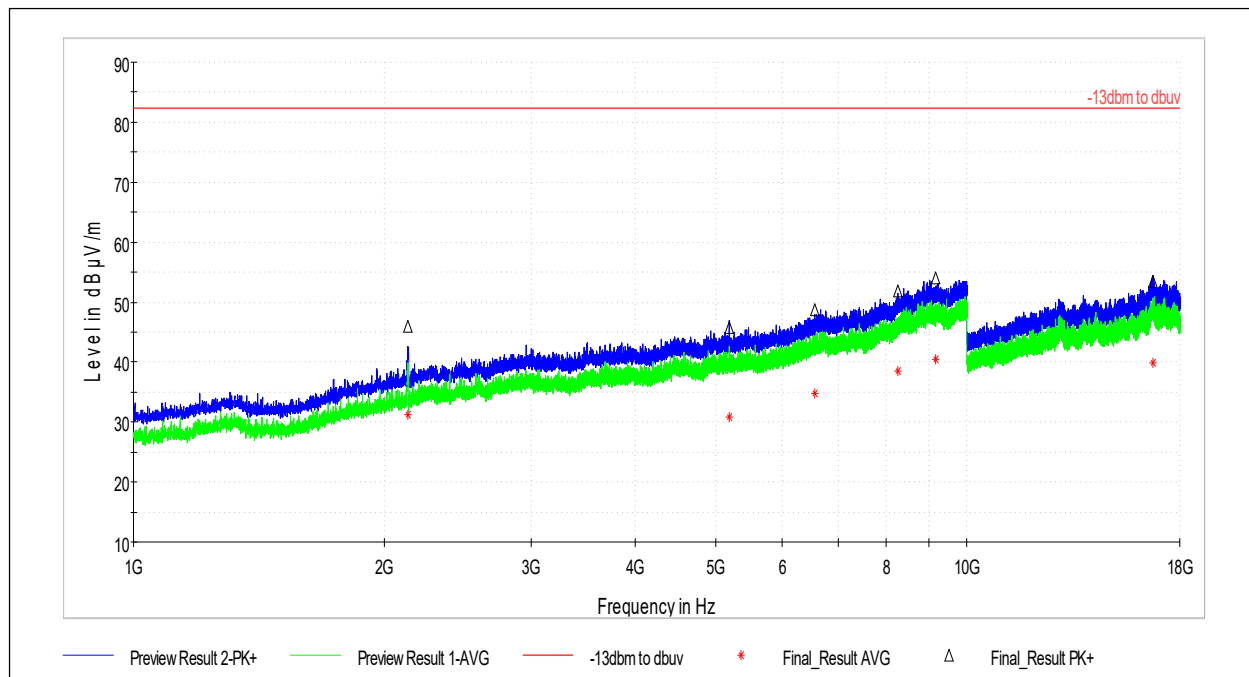


Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.155	22.74	82.25	59.51	100.0	V	6.0	19.0
118.432	23.61	82.25	58.64	273.0	V	0.0	20.5
201.205	23.11	82.25	59.14	400.0	H	148.0	20.2
327.467	25.82	82.25	56.43	155.0	H	14.0	22.4
601.923	32.58	82.25	49.67	101.0	H	350.0	28.2
921.753	35.59	82.25	46.66	400.0	V	150.0	31.8

Test Personnel: Jordan Coughenour
Supervising/Reviewing Engineer: Michael Carlson
(Where Applicable) FCC Part 27
Product Standard: RSS-139 Issue 4
Input Voltage: 12VDC
Pretest Verification w / Ambient Signals or BB Source: Yes

Test Date: 11/21/2023
Limit Applied: -13dBm converted to field strength
Ambient Temperature: 23.0 °C
Relative Humidity: 39.3 %
Atmospheric Pressure: 978.9 mbar

Deviations, Additions, or Exclusions: None

**6.11.2 Radiated Spurious Emissions, 1 GHz – 18 GHz**

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2133.000	45.92	82.25	36.33	258.0	V	9.0	3.8
5179.500	45.69	82.25	36.56	100.0	V	0.0	10.0
6561.000	48.66	82.25	33.59	300.0	V	242.0	12.7
8255.500	51.91	82.25	30.34	162.0	V	289.0	14.6
9171.500	53.97	82.25	28.28	313.0	H	131.0	15.5
16712.500	53.49	82.25	28.76	117.0	H	10.0	25.7

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2133.000	31.17	82.25	51.08	258.0	V	9.0	3.8
5179.500	30.82	82.25	51.43	100.0	V	0.0	10.0
6561.000	34.76	82.25	47.49	300.0	V	242.0	12.7
8255.500	38.52	82.25	43.73	162.0	V	289.0	14.6
9171.500	40.51	82.25	41.74	313.0	H	131.0	15.5
16712.500	39.91	82.25	42.34	117.0	H	10.0	25.7

Test Personnel: Michael Carlson
Supervising/Reviewing Engineer: _____
(Where Applicable) N/A
FCC Part 27
Product Standard: RSS-139 Issue 4
Input Voltage: 12VDC
Pretest Verification w / Ambient Signals or BB Source: Yes

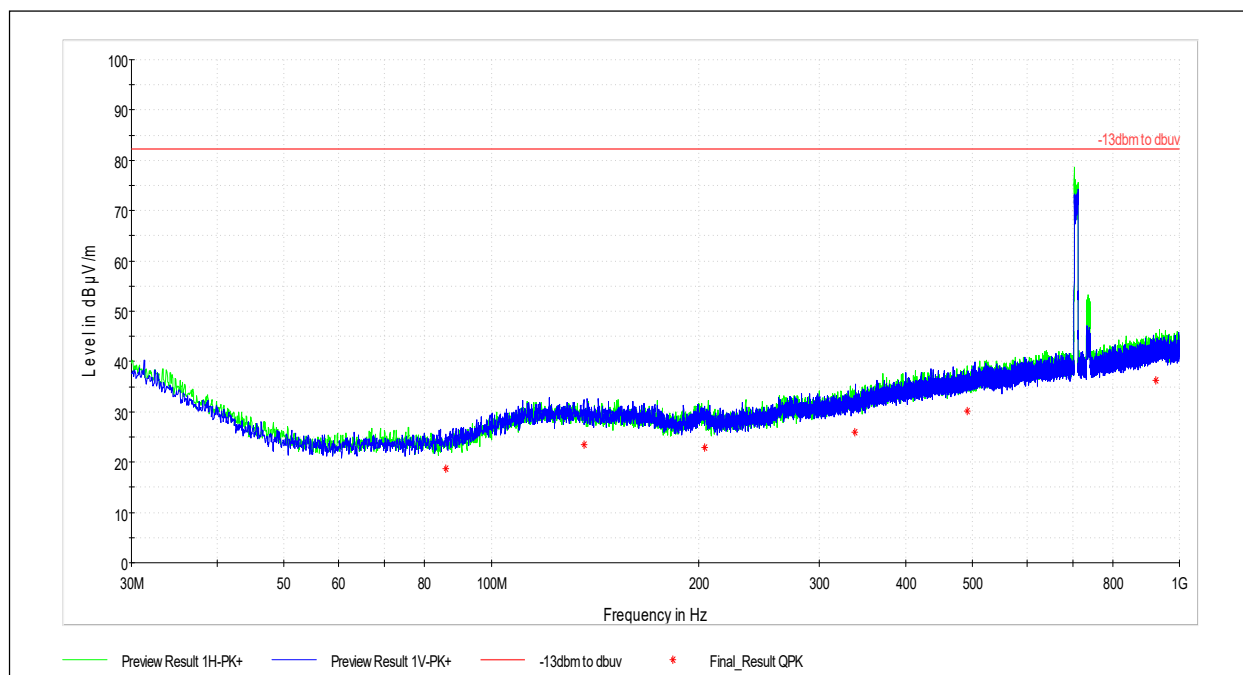
Test Date: 11/21/2023
Limit Applied: -13dBm converted to field strength
Ambient Temperature: 23.0 °C
Relative Humidity: 39.3 %
Atmospheric Pressure: 978.9 mbar

Deviations, Additions, or Exclusions: None



6.12 Radiated Spurious Emissions (LTE B12)

6.12.1 Radiated Spurious Emissions, 30 MHz – 1 GHz



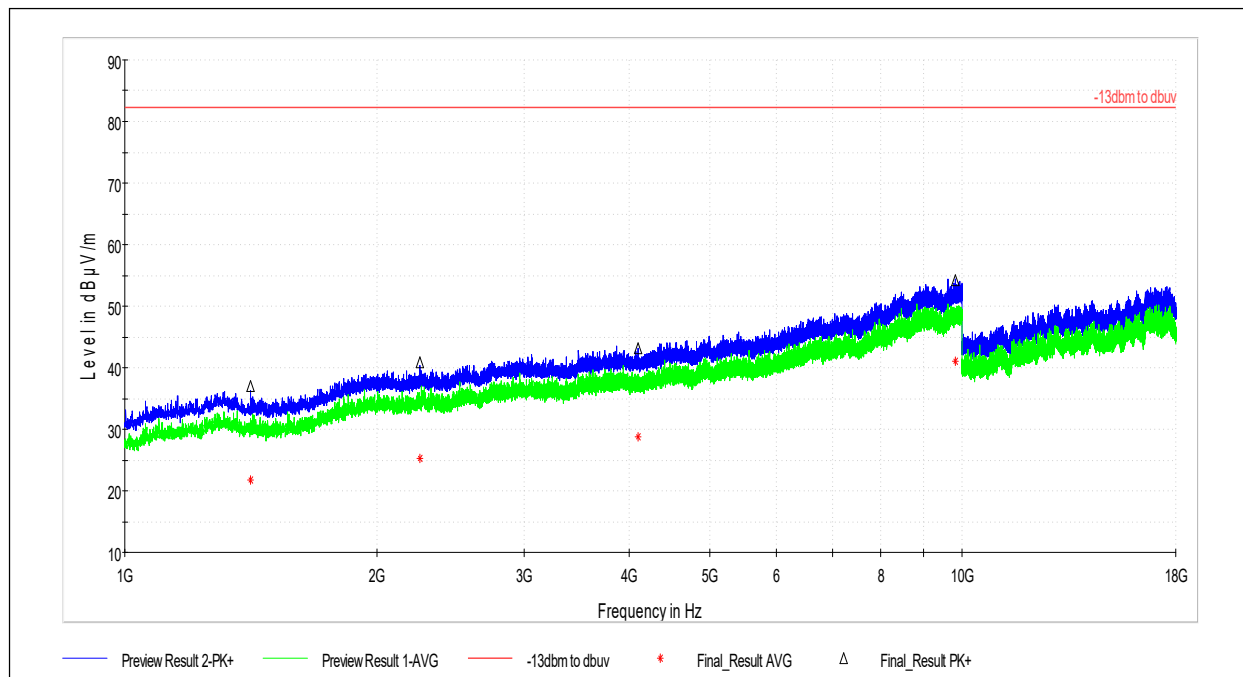
The large peak shown is the fundamental frequency of the operating bands.

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
85.883	18.76	82.25	63.49	100.0	V	238.0	15.0
136.269	23.39	82.25	58.86	134.0	V	0.0	20.5
204.277	22.91	82.25	59.35	375.0	V	150.0	19.9
337.759	25.96	82.25	56.29	345.0	H	322.0	22.7
492.043	30.08	82.25	52.17	185.0	H	-2.0	26.2
924.124	36.22	82.25	46.03	363.0	H	212.0	32.4

Test Personnel: Jordan Coughenour
Supervising/Reviewing Engineer: Michael Carlson
(Where Applicable)
Product Standard: RSS-130 Issue 2
Input Voltage: 12VDC
Pretest Verification w / Ambient Signals or BB Source: Yes

Test Date: 11/21/2023
Limit Applied: -13dBm converted to field strength
Ambient Temperature: 23.0 °C
Relative Humidity: 39.3 %
Atmospheric Pressure: 978.9 mbar

Deviations, Additions, or Exclusions: None

**6.12.2 Radiated Spurious Emissions, 1 GHz – 18 GHz**

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1412.500	37.01	82.25	45.24	293.0	H	70.0	-0.4
2253.000	40.90	82.25	41.35	365.0	H	162.0	4.3
4103.500	43.21	82.25	39.04	100.0	V	305.0	8.0
9819.000	54.20	82.25	28.05	328.0	V	158.0	16.4

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1412.500	21.67	82.25	60.58	293.0	H	70.0	-0.4
2253.000	25.21	82.25	57.04	365.0	H	162.0	4.3
4103.500	28.70	82.25	53.55	100.0	V	305.0	8.0
9819.000	41.03	82.25	41.22	328.0	V	158.0	16.4

Test Personnel: Michael Carlson
Supervising/Reviewing Engineer: _____
(Where Applicable) N/A
Product Standard: FCC Part 27
Input Voltage: RSS-130 Issue 2
Pretest Verification w / Ambient Signals or BB Source: 12VDC
Yes

Test Date: 11/21/2023
Limit Applied: -13dBm converted to field strength
Ambient Temperature: 23.0 °C
Relative Humidity: 39.3 %
Atmospheric Pressure: 978.9 mbar

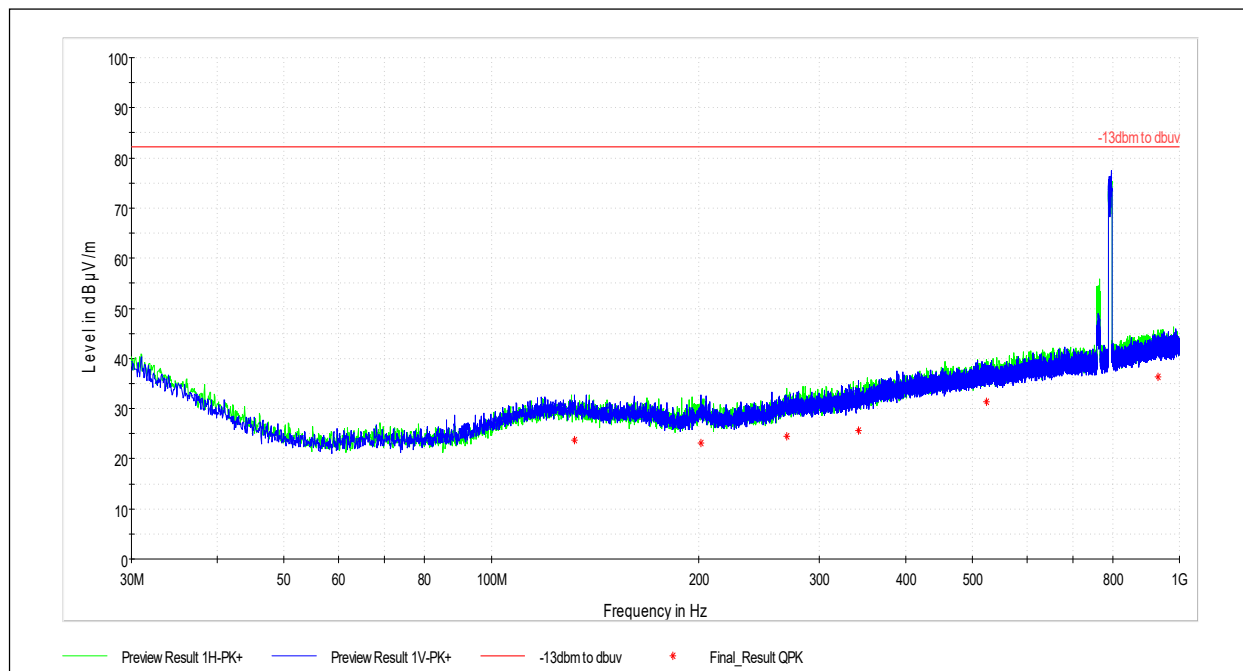
Deviations, Additions, or Exclusions: None



6.13 Radiated Spurious Emissions (LTE B14)

6.13.1 Radiated Spurious Emissions, 30 MHz – 1 GHz

Band 14



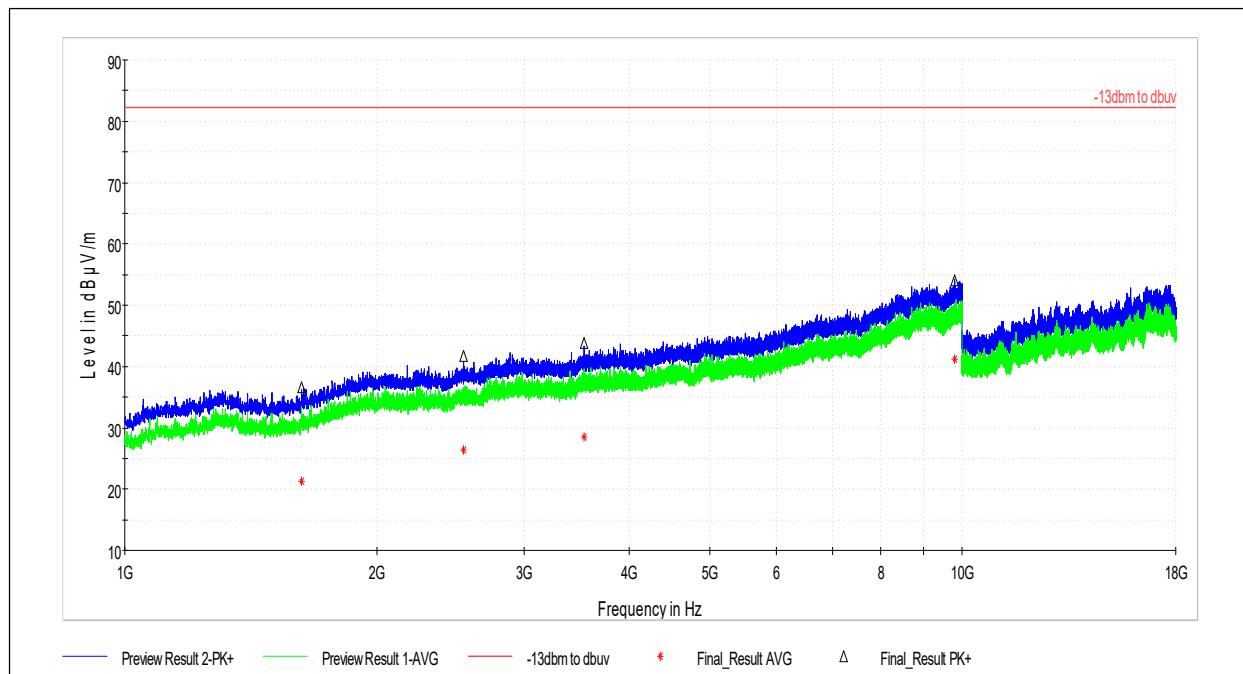
The large peak shown is the fundamental frequency of the operating bands.

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
132.173	23.71	82.25	58.54	134.0	V	302.0	20.8
201.582	23.10	82.25	59.15	316.0	V	240.0	20.1
268.674	24.50	82.25	57.75	95.0	H	97.0	21.3
341.316	25.65	82.25	56.60	350.0	V	324.0	22.4
524.161	31.32	82.25	50.93	350.0	H	16.0	26.8
930.914	36.32	82.25	45.93	114.0	H	219.0	32.6

Test Personnel: Jordan Coughenour
Supervising/Reviewing Engineer: Michael Carlson
(Where Applicable) FCC Part 90
Product Standard: RSS-140 Issue 1
Input Voltage: 12VDC
Pretest Verification w / Ambient Signals or BB Source: Yes

Test Date: 11/21/2023
Limit Applied: -13dBm converted to field strength
Ambient Temperature: 23.0 °C
Relative Humidity: 39.3 %
Atmospheric Pressure: 978.9 mbar

Deviations, Additions, or Exclusions: None

**6.13.2 Radiated Spurious Emissions, 1 GHz – 18 GHz**

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1627.000	36.53	82.25	45.72	100.0	V	296.0	0.0
2541.000	41.80	82.25	40.45	397.0	V	136.0	5.2
3537.500	43.91	82.25	38.34	319.0	H	252.0	7.3
9798.000	54.03	82.25	28.22	126.0	V	181.0	16.5

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1627.000	21.30	82.25	60.95	100.0	V	296.0	0.0
2541.000	26.41	82.25	55.84	397.0	V	136.0	5.2
3537.500	28.56	82.25	53.69	319.0	H	252.0	7.3
9798.000	41.13	82.25	41.12	126.0	V	181.0	16.5

Test Personnel: Michael Carlson
Supervising/Reviewing Engineer: N/A
(Where Applicable) FCC Part 90
Product Standard: RSS-140 Issue 1
Input Voltage: 12VDC
Pretest Verification w / Ambient Signals or BB Source: Yes

Test Date: 11/21/2023
Limit Applied: -13dBm converted to field strength
Ambient Temperature: 23.0 °C
Relative Humidity: 39.3 %
Atmospheric Pressure: 978.9 mbar

Deviations, Additions, or Exclusions: None

**7 Revision History**

Revision Level	Date	Report Number	Prepared By	Reviewed By	Notes
0	11/28/2023	105601636LEX-007	<i>BL</i>	<i>MC</i>	Original Issue
1	3/6/2024	105601636LEX-007.1	<i>BL</i>	<i>MC</i>	Added Canadian standards. Removed unintentional emissions.
2	6/17/2024	105601636LEX-007.2	<i>BL</i>	<i>MC</i>	Updated company name. Added FCCID and ICID.