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Calian Advanced Technologies TEST REPORT

SCOPE OF WORK

EMC TESTING – RUKKUS LTE

REPORT NUMBER

105007044LEX-003

ISSUE DATE

3/31/2022

PAGES

26

DOCUMENT CONTROL NUMBER

Non-Specific EMC Report Shell Rev. December 2017
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EMC TEST REPORT
(FULL COMPLIANCE)

Report Number: 105007044LEX-003

Project Number: G105007044

Report Issue Date: 3/31/2022

Model(s) Tested: Rukkus LTE

Standards: FCC Part 15B
ICES-003 Issue 7
FCC Part 22, 24, 27
(Radiated Spurious Emissions)

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

Client:
Calian Advanced Technologies
18 Innovation Boulevard
Saskatoon, Saskatchewan, S7N 3R1
Canada

Report prepared by



Michael Carlson,
EMC Engineer

Report reviewed by



Brian Lackey,
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 Emissions (Transmitters Idle) (ANSI C63.4:2014)	Pass
6	Radiated Spurious Emissions (Transmitters Active) (ANSI C63.26:2015)	Pass
-	Conducted Emissions (ANSI C63.4:2014)	N/A ¹

¹ The EUT is battery powered and does not connect to AC mains.



3 Client Information

This product was tested at the request of the following:

Client Information	
Client Name:	Calian Advanced Technologies
Address:	18 Innovation Boulevard Saskatoon, Saskatchewan, S7N 3R1 Canada
Contact:	Scott Jasken
Telephone:	13069331608
Email:	Scott.jasken@calian.com
Manufacturer Information	
Manufacturer Name:	Calian Advanced Technologies
Manufacturer Address:	18 Innovation Boulevard Saskatoon, Saskatchewan, S7N 3R1 Canada



4 Description of Equipment under Test and Variant Models

Equipment Under Test	
Product Name	Rukkus LTE
Model Number	Rukkus LTE
Hardware Version	3
Software Version	7
Supported Transmit Bands	LTE Bands: 2, 4, 5, 12
Embedded Module	uBlox Lara-R202
Embedded Module hardware Version	LARA-R202-02B-03
Embedded Module Software Version	30.44,A01.02
Embedded Module FCCID	Add FCCIDs of all transmitter modules (not just cellular)
Receive Date	3/20/2022
Test Start Date	3/27/2022
Test End Date	3/28/2022
Device Received Condition	Good
Test Sample Type	Production
Rated Voltage	7VDC
Low Voltage	3VDC
High Voltage	10VDC
Description of Equipment Under Test (provided by client)	
The Rukkus LTE is a remote sensing agricultural device.	

4.1 Variant Models:

There were no variant models covered by this evaluation.



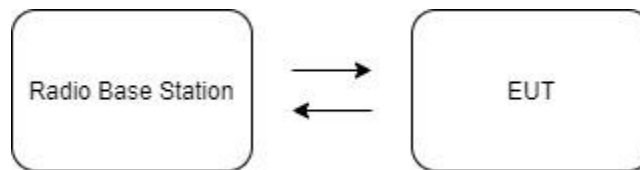
5 System Setup and Method

5.1 Method:

Configuration as required by ANSI C63.4:2014 and ANSI C63.26:2015.

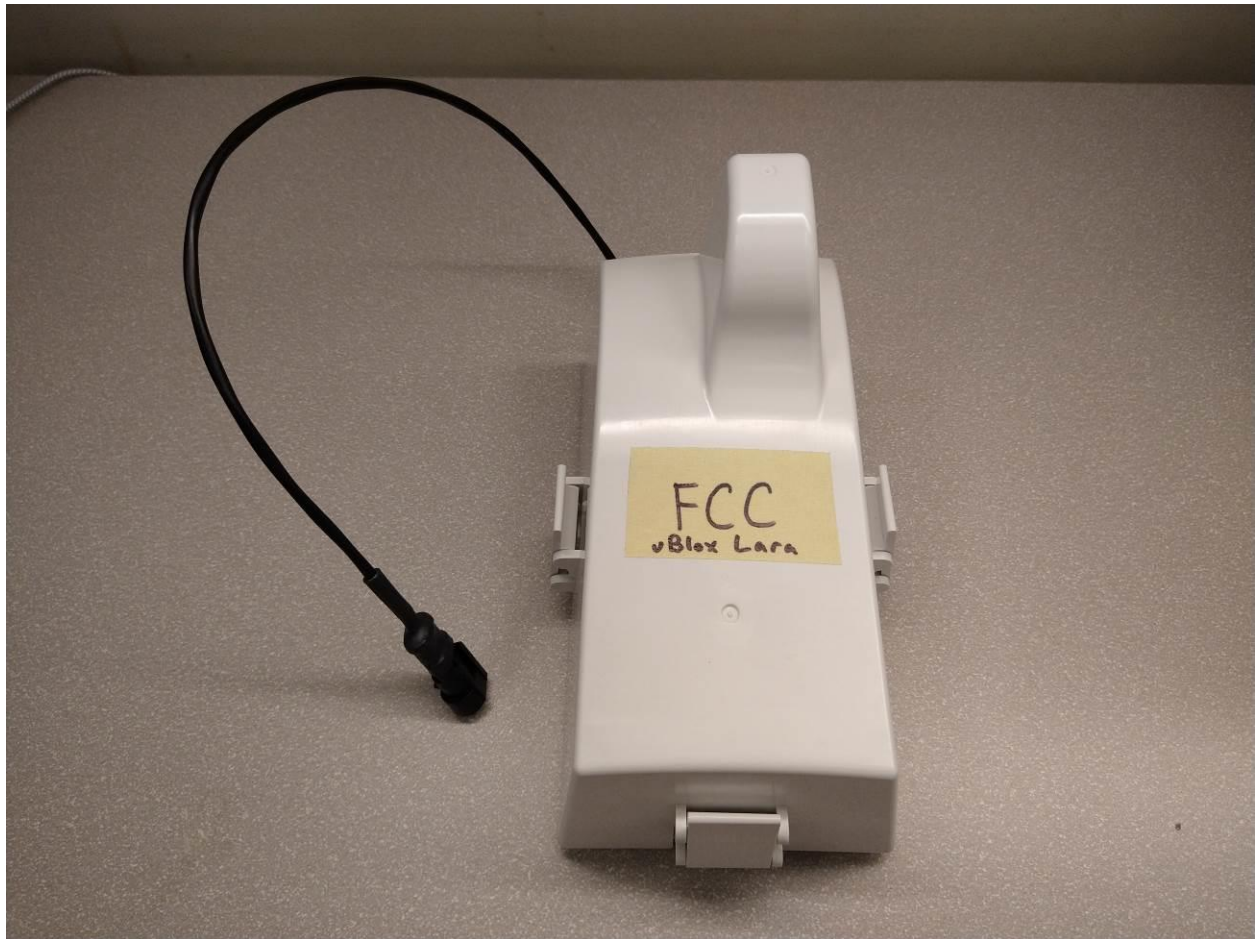
No.	Descriptions of EUT Exercising
1	Battery Power: ON, Cell Radio: ON connected to a CMW 500 Base Station Simulator
2	Battery Power: ON, Cell Radio: OFF

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 C63.4:2014 and ANSI C63.26:2015.

TEST SITE: 10m ALSE

Site Designation: 10m Chamber

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	U _{CISPR}
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 dB μ V
AF = 7.4 dB/m
CF = 1.6 dB
AG = 29.0 dB
FS = 32 dB μ 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 = Net Reading in dB μ 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 (dB μ V/m) = EIRP (dBm) - 20log(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	8181	Rohde & Schwarz	ESW44	11/16/2021	11/16/2022
Bilog Antenna	3133	ETS	3142C	8/26/2021	8/26/2022
Horn Antenna	3780	ETS	3117	6/28/2021	6/28/2022
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	Rohde&Schwarz	TS-PR18	1/13/2022	1/13/2023
Preamplifier	3920	Rohde & Schwarz	TS-PR26	1/13/2022	1/13/2023
Coaxial Cable	3074			1/13/2022	1/13/2023
Coaxial Cable	2588			1/13/2022	1/13/2023
Coaxial Cable	2593			1/13/2022	1/13/2023
Coaxial Cable	2592			1/13/2022	1/13/2023
Coaxial Cable	3339			1/13/2022	1/13/2023

6.5 Software Utilized:

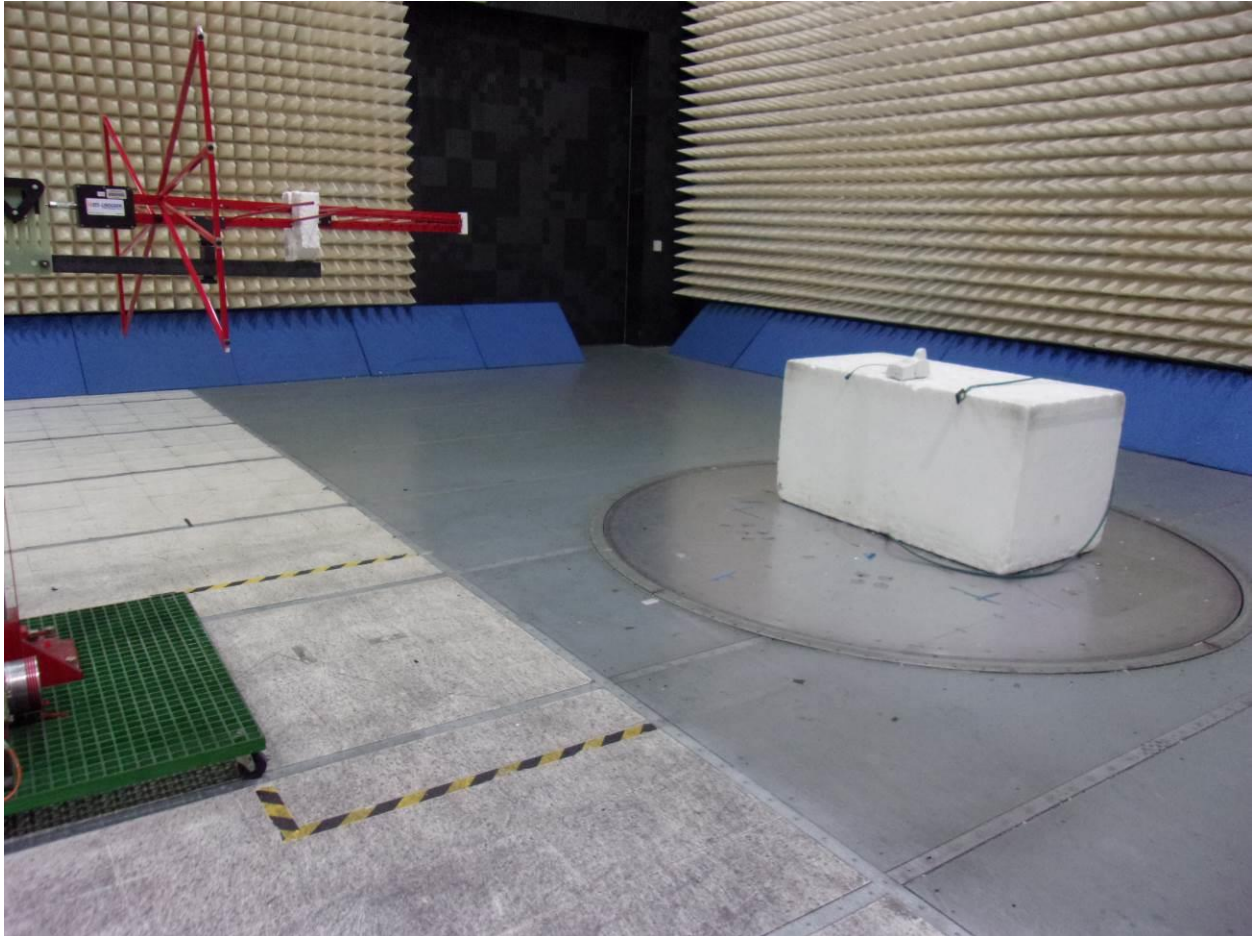
Name	Manufacturer	Version
EMC32	Rohde & Schwarz	Version 10.60.20

6.6 Results:

The sample tested was found to Comply.



6.7 Setup Photographs: Radiated Emissions (FCC Part 15B/22/24/27 Below 1GHz)



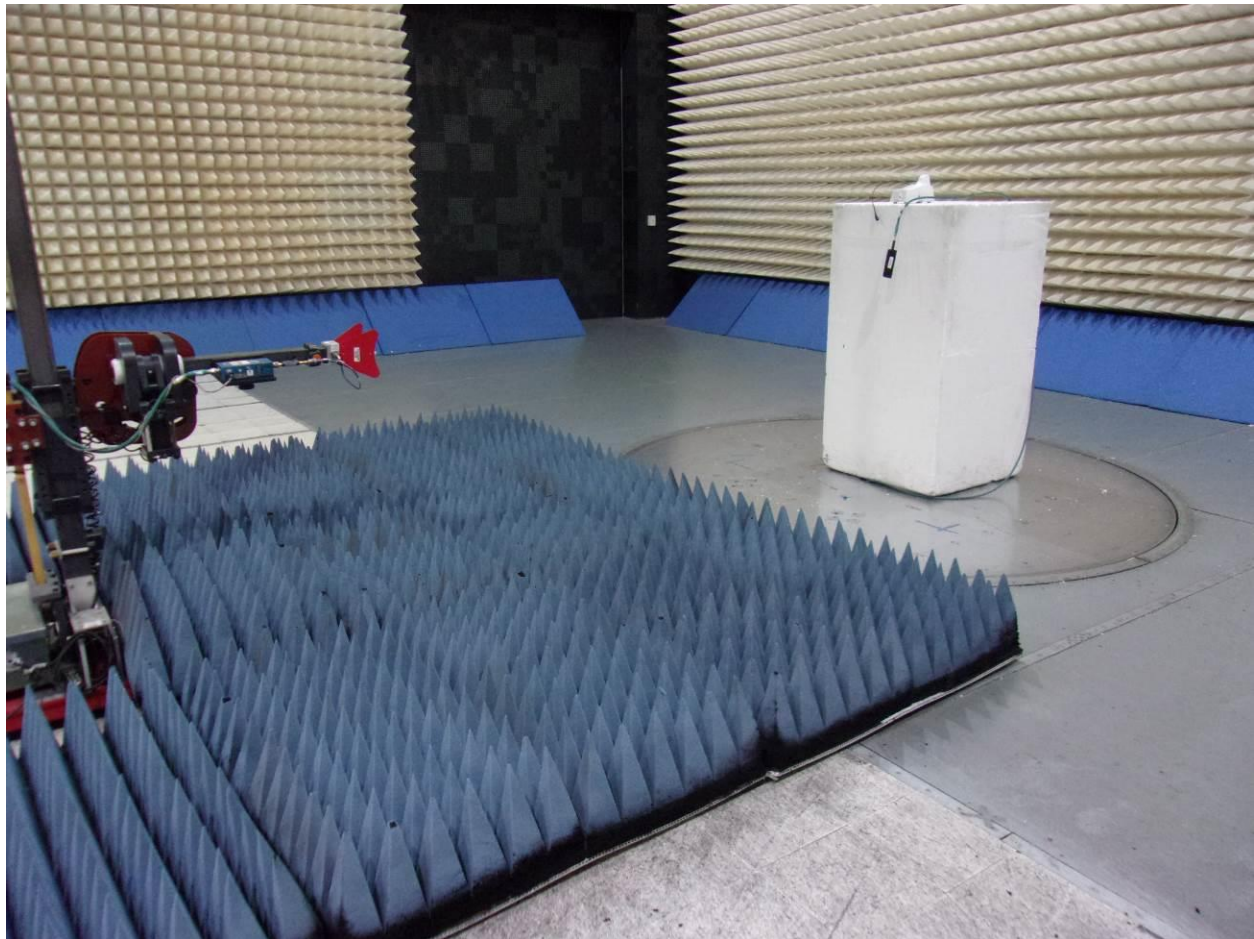


6.8 Setup Photographs: Radiated Emissions (FCC Part 15B Above 1GHz)



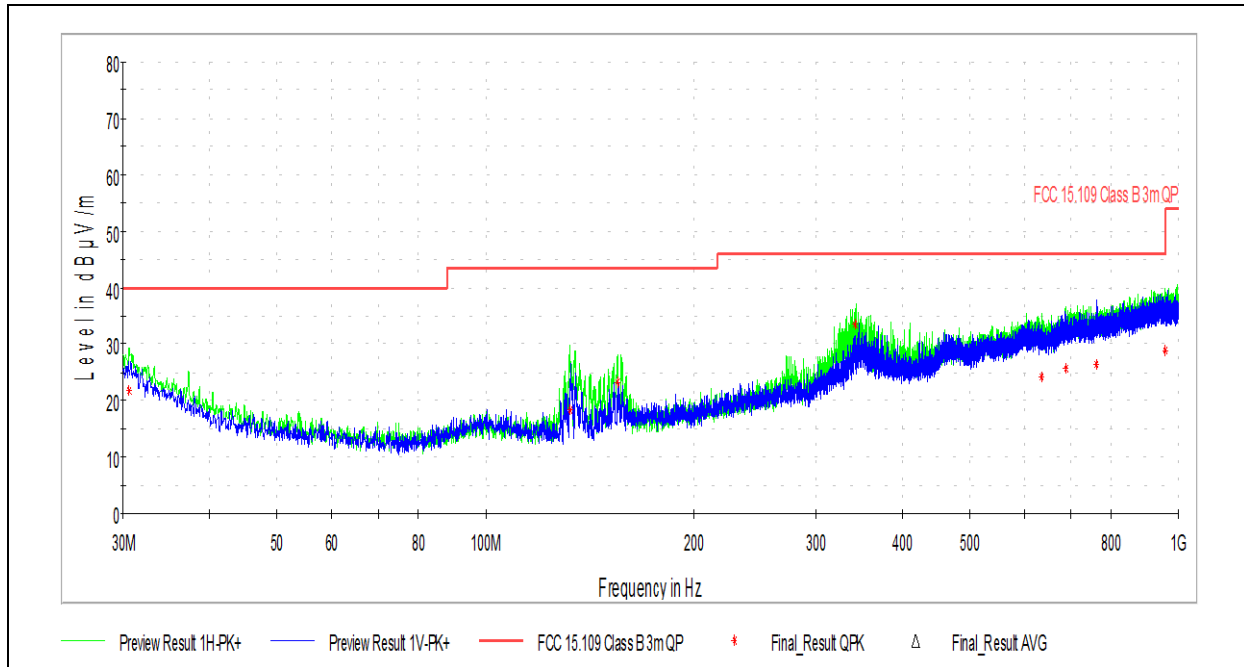


6.9 Setup Photographs: Radiated Emissions (FCC Part 22/24/27 Above 1GHz)





6.10 Plots/Data: Radiated Emissions, 30MHz – 1GHz (Transmitters Idle)



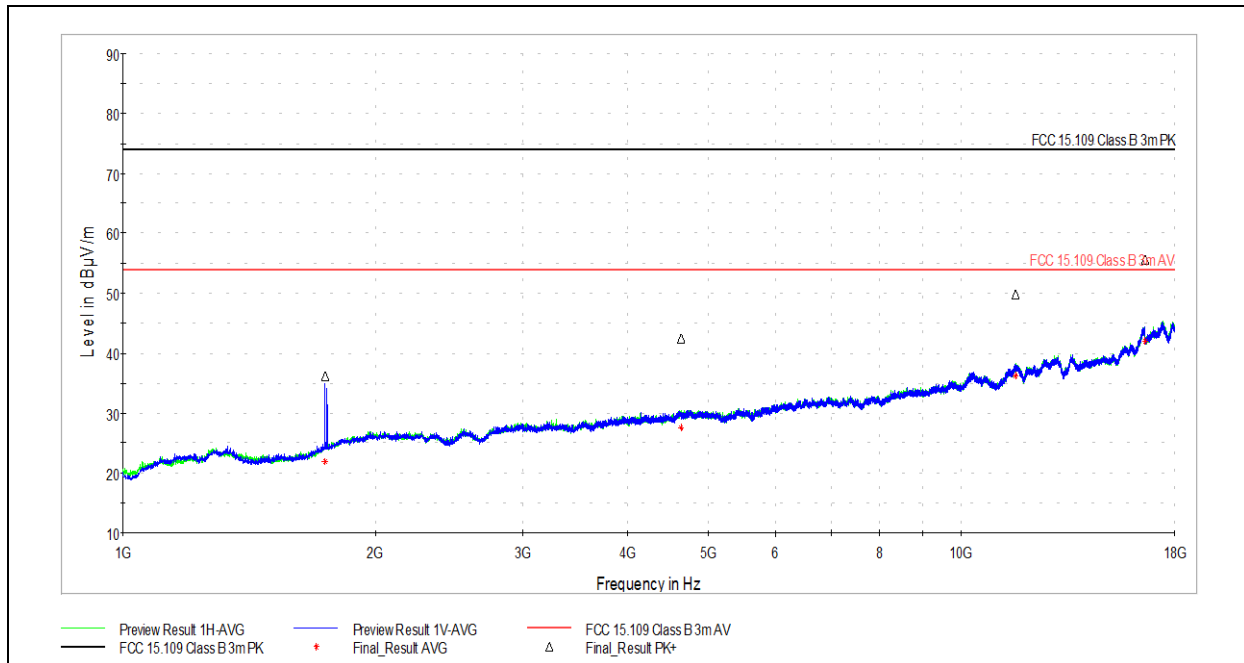
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.592778	21.66	40.000	18.34	120.000	290.0	H	152.0	24.84
132.442778	18.36	43.522	25.16	120.000	158.0	H	0.0	15.63
155.076111	23.17	43.522	20.35	120.000	197.0	H	0.0	18.03
341.531667	33.47	46.021	12.55	120.000	334.0	H	266.0	25.08
634.633333	24.26	46.021	21.76	120.000	100.0	H	248.0	32.57
688.091111	25.77	46.021	20.26	120.000	379.0	H	58.0	33.73
761.380000	26.47	46.021	19.55	120.000	385.0	V	123.0	33.31
956.134444	28.88	46.021	17.14	120.000	175.0	H	132.0	37.22

Test Personnel:	<u>Michael Carlson</u>	Test Date:	<u>3/28/2022</u>
Supervising/Reviewing Engineer:	<u>N/A</u>	Limit Applied:	<u>Class B</u>
(Where Applicable)	<u>FCC Part 15B</u>	Ambient Temperature:	<u>20.9°C</u>
Product Standard:	<u>ICES-003 Issue 7</u>	Relative Humidity:	<u>22.2%</u>
Input Voltage:	<u>7VDC Battery</u>	Atmospheric Pressure:	<u>982.3 mbar</u>
Pretest Verification w / Ambient Signals or BB Source:	<u>Yes</u>		

Deviations, Additions, or Exclusions: The FCC Part 15.109 limits are more stringent than the corresponding limits from ICES-003 Issue 7.



6.11 Plots/Data: Radiated Emissions, 1GHz – 18GHz (Transmitters Idle)



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1742.500000	36.21	73.979	37.77	1000.000	246.0	V	207.0	1.05
4631.500000	42.50	73.979	31.48	1000.000	100.0	H	146.0	9.37
11633.000000	49.90	73.979	24.08	1000.000	100.0	H	332.0	19.33
16597.000000	55.70	73.979	18.28	1000.000	100.0	V	316.0	26.16

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1742.500000	21.88	53.979	32.10	1000.000	246.0	V	207.0	1.05
4631.500000	27.58	53.979	26.40	1000.000	100.0	H	146.0	9.37
11633.000000	36.12	53.979	17.86	1000.000	100.0	H	332.0	19.33
16597.000000	42.07	53.979	11.91	1000.000	100.0	V	316.0	26.16

Test Personnel: <u>Michael Carlson</u>	Test Date: <u>3/28/2022</u>
Supervising/Reviewing Engineer: <u>N/A</u>	Limit Applied: <u>Class B</u>
(Where Applicable)	FCC Part 15B
Product Standard: <u>ICES-003 Issue 7</u>	Ambient Temperature: <u>20.9°C</u>
Input Voltage: <u>7VDC Battery</u>	Relative Humidity: <u>22.2%</u>
Pretest Verification w / Ambient Signals or BB Source: <u>Yes</u>	Atmospheric Pressure: <u>982.3 mbar</u>

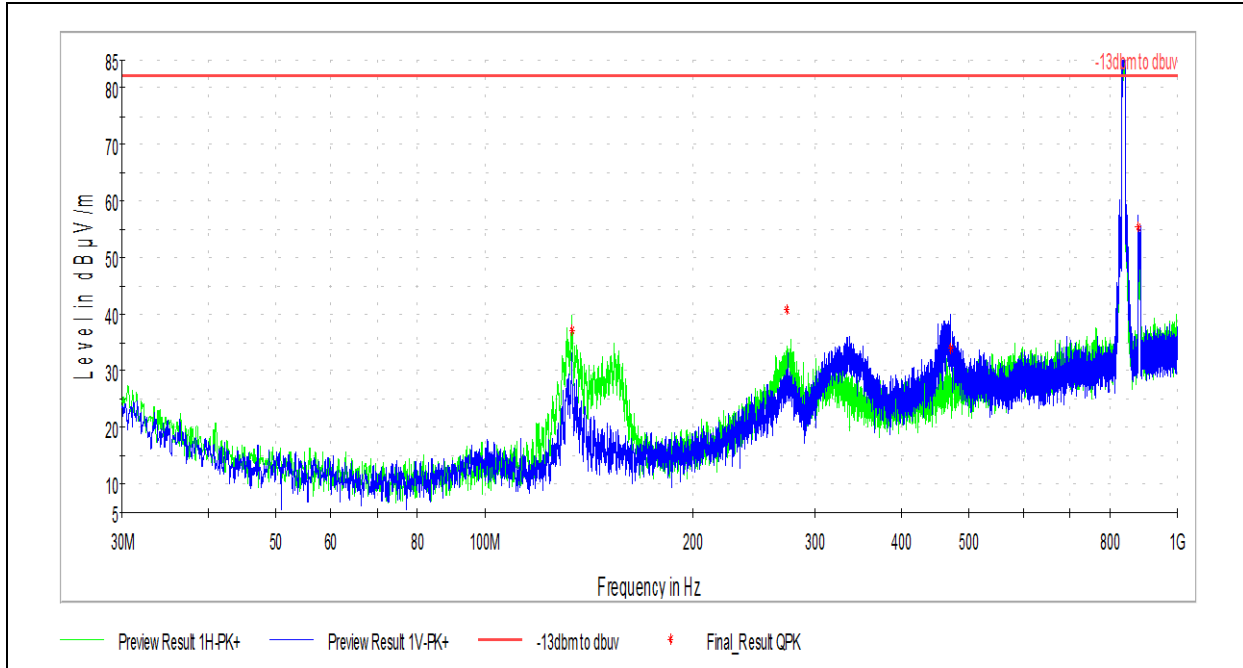
Deviations, Additions, or Exclusions: None



6.12 FCC Part 22 Radiated Spurious Emissions (LTE B5)

6.12.1 Radiated Spurious Emissions, 30 MHz – 1 GHz

Band 5



*The large peak shown is the fundamental frequency of the operating band.

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
133.843889	37.25	82.250	45.00	120.000	134.0	H	184.0	15.70
272.931111	40.94	82.250	41.31	120.000	95.0	H	238.0	22.83
471.080556	34.01	82.250	48.24	120.000	100.0	V	204.0	28.56
877.402778	55.61	82.250	26.64	120.000	179.0	V	165.0	34.99

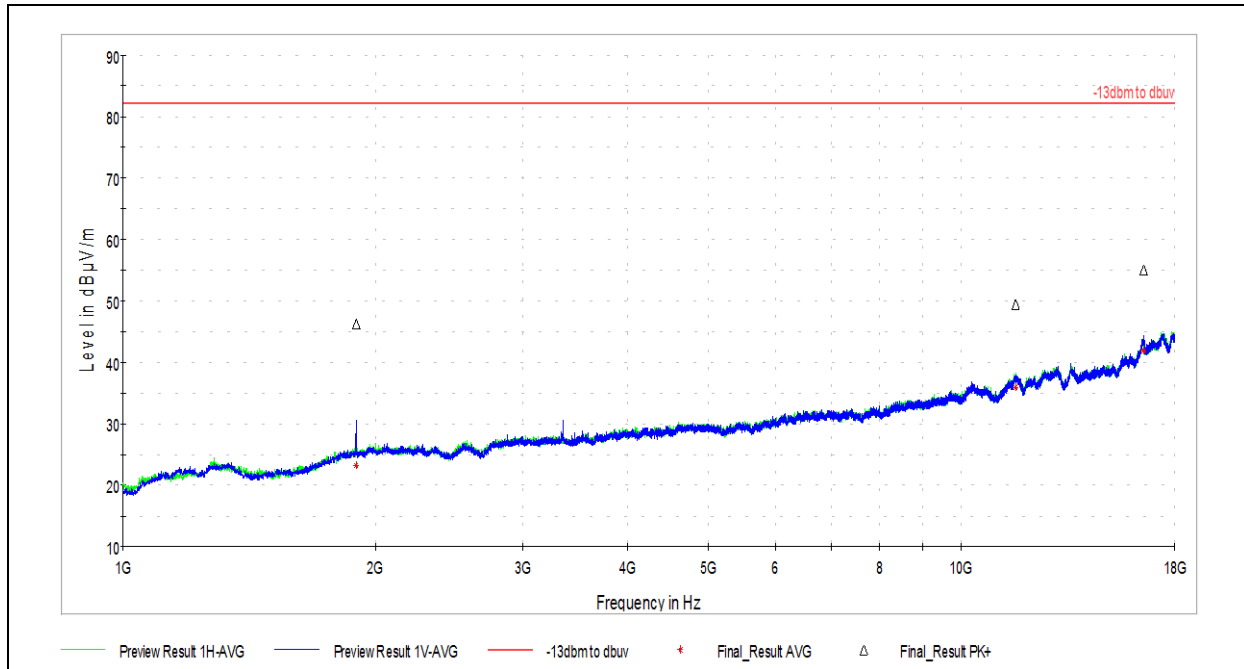
Test Personnel: Michael Carlson
 Supervising/Reviewing Engineer: _____
 (Where Applicable) N/A
 Product Standard: FCC Part 22
 Input Voltage: 7VDC
 Pretest Verification w / Ambient Signals or BB Source: Yes

Test Date: 3/28/2022
 Limit Applied: -13dBm converted to field strength
 Ambient Temperature: 20.9°C
 Relative Humidity: 22.2%
 Atmospheric Pressure: 982.3 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)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1896.000000	46.22	82.250	36.03	1000.000	126.0	V	170.0	2.70
11624.000000	49.57	82.250	32.68	1000.000	100.0	H	183.0	19.31
16510.500000	55.10	82.250	27.15	1000.000	100.0	V	193.0	25.78

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1896.000000	23.20	82.250	59.05	1000.000	126.0	V	170.0	2.70
11624.000000	36.01	82.250	46.24	1000.000	100.0	H	183.0	19.31
16510.500000	41.92	82.250	40.33	1000.000	100.0	V	193.0	25.78

Test Personnel: Michael Carlson
 Supervising/Reviewing Engineer: N/A
 (Where Applicable)
 Product Standard: FCC Part 22
 Input Voltage: 7VDC
 Pretest Verification w / Ambient Signals or BB Source: Yes

Test Date: 3/27/2022
 Limit Applied: -13dBm converted to field strength
 Ambient Temperature: 20.9°C
 Relative Humidity: 22.2%
 Atmospheric Pressure: 982.3 mbar

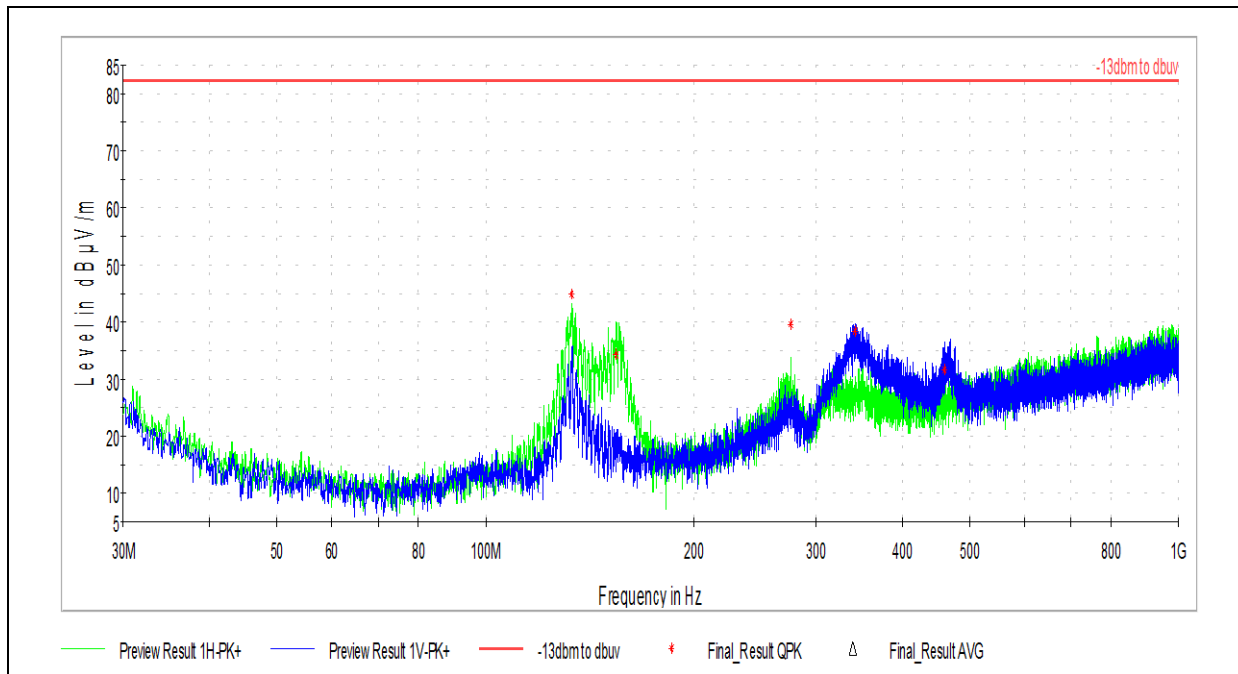
Deviations, Additions, or Exclusions: None



6.13 FCC Part 24 Radiated Spurious Emissions (LTE B2)

6.13.1 Radiated Spurious Emissions, 30 MHz – 1 GHz

Band 2



Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
133.035556	44.94	82.250	37.31	120.000	150.0	H	194.0	15.69
154.483333	34.22	82.250	48.03	120.000	198.0	H	1.0	17.96
275.625556	39.47	82.250	42.78	120.000	95.0	H	248.0	22.96
341.046667	38.43	82.250	43.82	120.000	121.0	V	164.0	24.72
459.710000	31.68	82.250	50.57	120.000	100.0	V	182.0	27.86

Test Personnel: Michael Carlson
 Supervising/Reviewing Engineer: _____
 (Where Applicable) N/A
 Product Standard: FCC Part 24
 Input Voltage: 7VDC
 Pretest Verification w / Ambient Signals or BB Source: Yes

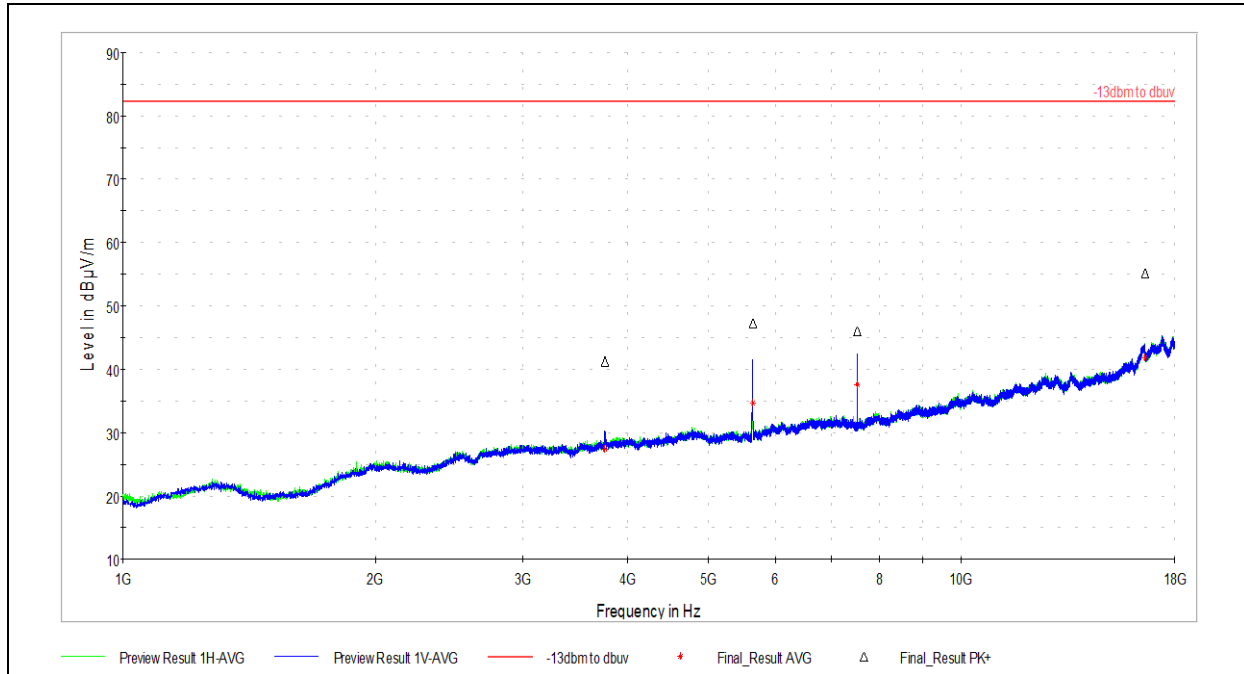
Test Date: 3/28/2022
 Limit Applied: -13dBm converted to field strength
 Ambient Temperature: 20.9°C
 Relative Humidity: 22.2%
 Atmospheric Pressure: 982.3 mbar

Deviations, Additions, or Exclusions: None



6.13.2 Radiated Spurious Emissions, 1 GHz – 18 GHz

Band 2



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3759.500000	41.16	82.250	41.09	1000.000	100.0	V	260.0	7.24
5642.000000	47.26	82.250	34.99	1000.000	246.0	V	238.0	10.23
7520.000000	46.09	82.250	36.16	1000.000	154.0	V	73.0	12.74
16582.000000	55.20	82.250	27.05	1000.000	100.0	H	236.0	26.01

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3759.500000	27.45	82.250	54.80	1000.000	100.0	V	260.0	7.24
5642.000000	34.65	82.250	47.60	1000.000	246.0	V	238.0	10.23
7520.000000	37.55	82.250	44.70	1000.000	154.0	V	73.0	12.74
16582.000000	41.84	82.250	40.41	1000.000	100.0	H	236.0	26.01

Test Personnel: Michael Carlson
 Supervising/Reviewing Engineer: N/A
 (Where Applicable)
 Product Standard: FCC Part 24
 Input Voltage: 7VDC
 Pretest Verification w / Ambient Signals or BB Source: Yes

Test Date: 3/27/2022
 Limit Applied: -13dBm converted to field strength
 Ambient Temperature: 20.9°C
 Relative Humidity: 22.2%
 Atmospheric Pressure: 982.3 mbar

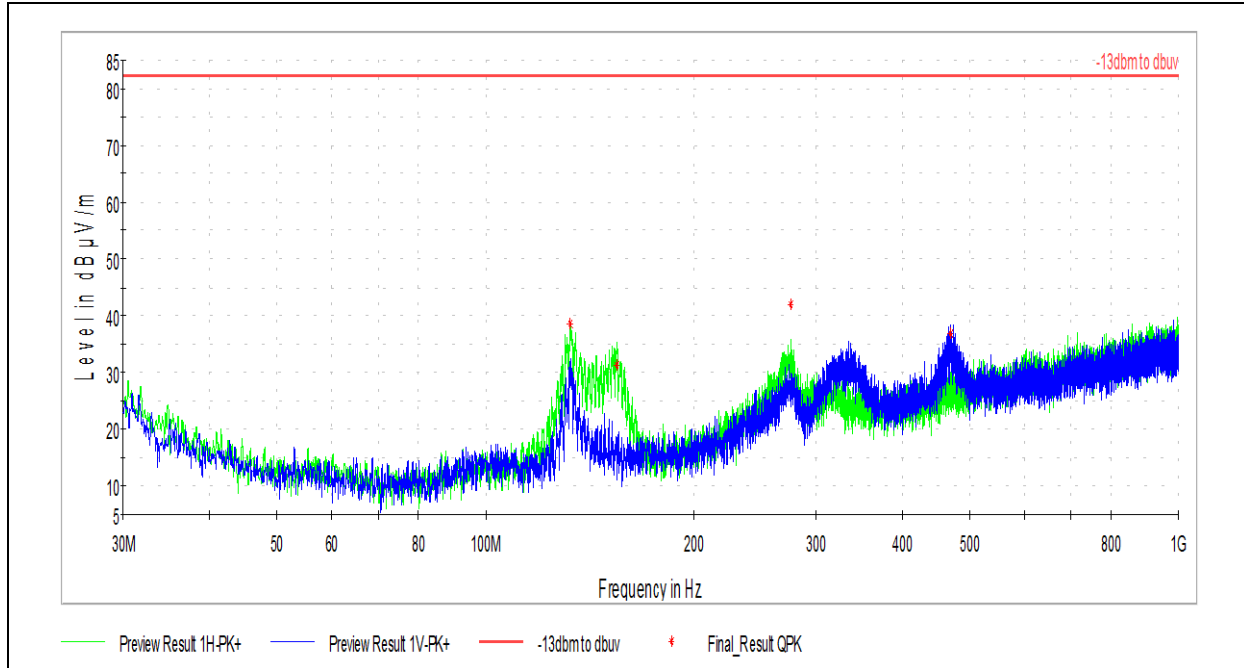
Deviations, Additions, or Exclusions: None



6.14 FCC Part 27 Radiated Spurious Emissions (LTE B4/B12)

6.14.1 Radiated Spurious Emissions, 30 MHz – 1 GHz

Band 4



Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
132.388889	38.67	82.250	43.58	120.000	151.0	H	184.0	15.62
154.698889	31.19	82.250	51.06	120.000	187.0	H	0.0	17.98
275.463889	42.02	82.250	40.23	120.000	95.0	H	239.0	22.95
469.194444	36.90	82.250	45.35	120.000	100.0	V	184.0	28.46

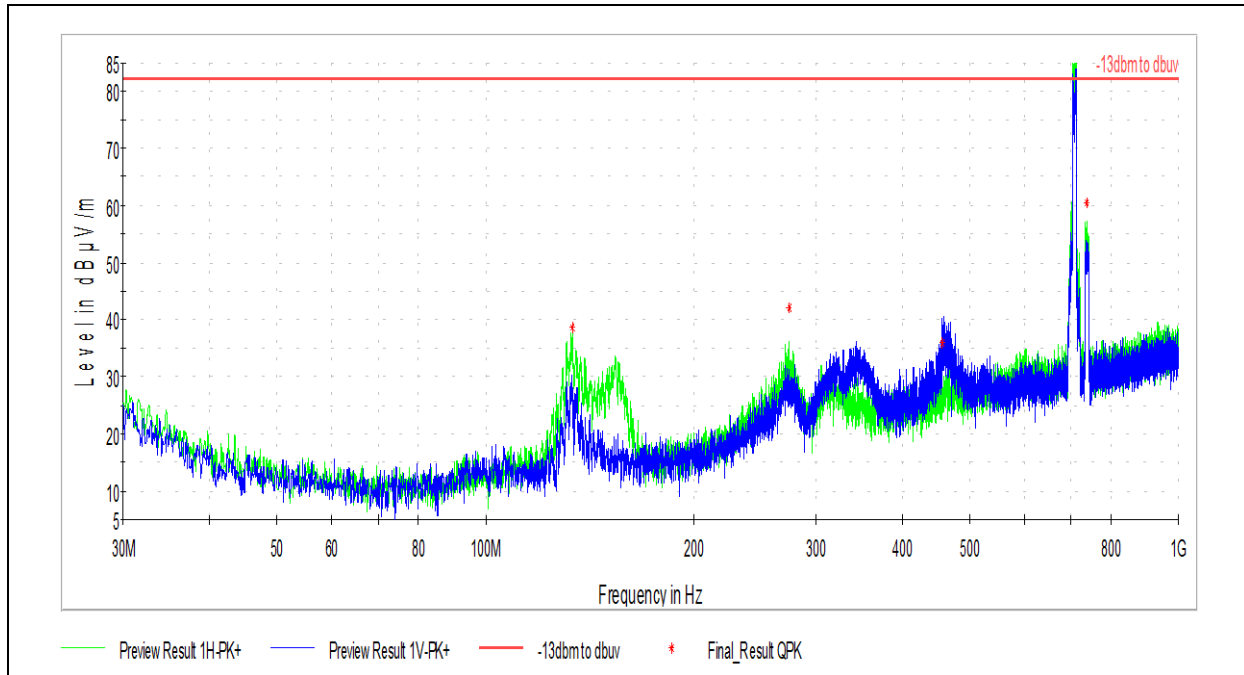
Test Personnel: Michael Carlson
 Supervising/Reviewing Engineer: _____
 (Where Applicable) N/A
 Product Standard: FCC Part 27
 Input Voltage: 7VDC
 Pretest Verification w / Ambient Signals or BB Source: Yes

Test Date: 3/28/2022
 Limit Applied: -13dBm converted to field strength
 Ambient Temperature: 20.9°C
 Relative Humidity: 22.2%
 Atmospheric Pressure: 982.3 mbar

Deviations, Additions, or Exclusions: None



Band 12



*The large peak shown is the fundamental frequency of the operating band.

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
133.412778	38.66	82.250	43.59	120.000	136.0	H	190.0	15.70
274.008889	41.97	82.250	40.28	120.000	100.0	H	242.0	22.94
456.422778	35.86	82.250	46.39	120.000	100.0	V	186.0	27.61
736.698889	60.38	82.250	21.87	120.000	94.0	H	90.0	34.17

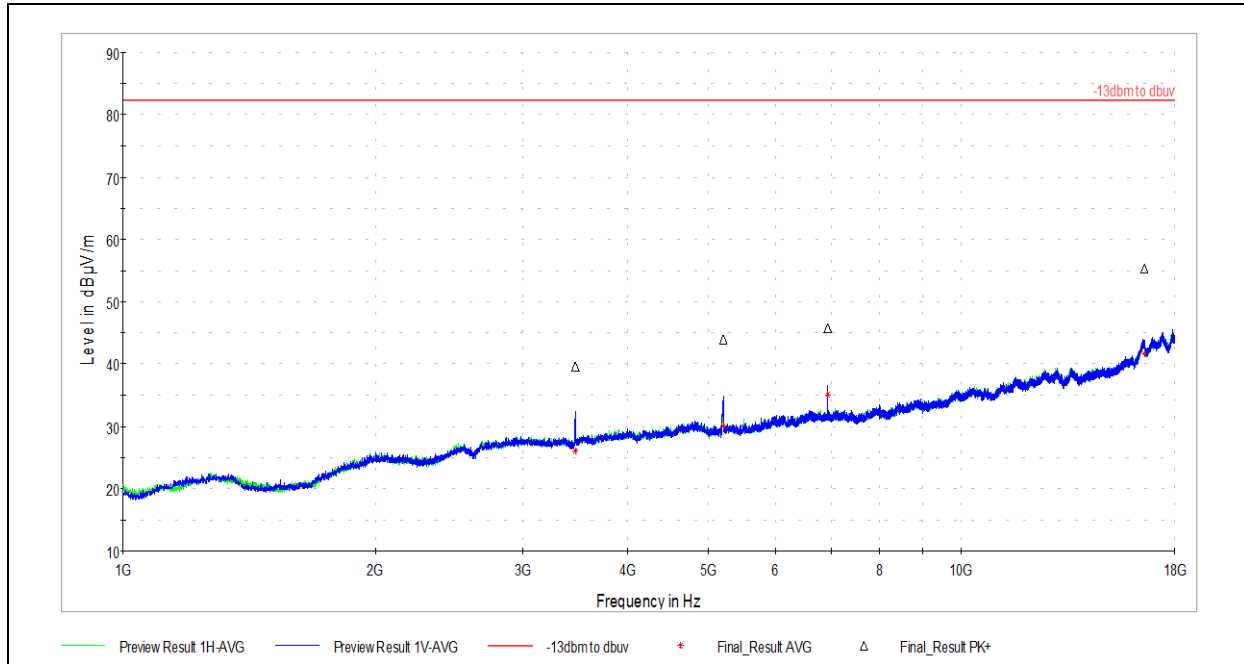
Test Personnel: Michael Carlson
 Supervising/Reviewing Engineer: _____
 (Where Applicable) N/A
 Product Standard: FCC Part 27
 Input Voltage: 7VDC
 Pretest Verification w / Ambient Signals or BB Source: Yes

Test Date: 3/28/2022
 Limit Applied: -13dBm converted to field strength
 Ambient Temperature: 20.9°C
 Relative Humidity: 22.2%
 Atmospheric Pressure: 982.3 mbar



6.14.2 Radiated Spurious Emissions, 1 GHz – 18 GHz

Band 4



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3464.500000	39.66	82.250	42.59	1000.000	127.0	V	166.0	6.14
5202.500000	44.00	82.250	38.25	1000.000	100.0	V	312.0	9.64
6930.000000	45.71	82.250	36.54	1000.000	100.0	V	278.0	12.36
16560.000000	55.29	82.250	26.96	1000.000	100.0	H	133.0	25.91

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3464.500000	25.94	82.250	56.31	1000.000	127.0	V	166.0	6.14
5202.500000	30.10	82.250	52.15	1000.000	100.0	V	312.0	9.64
6930.000000	35.02	82.250	47.23	1000.000	100.0	V	278.0	12.36
16560.000000	41.77	82.250	40.48	1000.000	100.0	H	133.0	25.91

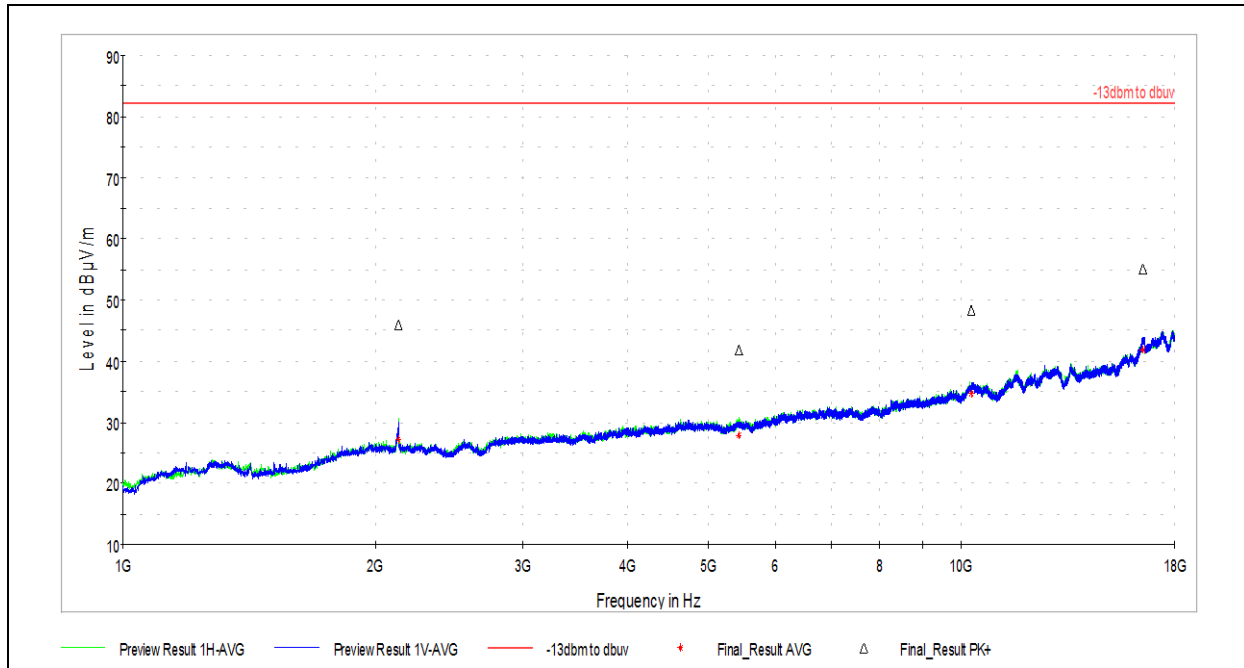
Test Personnel: Michael Carlson
 Supervising/Reviewing Engineer: _____
 (Where Applicable) N/A
 Product Standard: FCC Part 27
 Input Voltage: 7VDC
 Pretest Verification w / Ambient Signals or BB Source: Yes

Test Date: 3/27/2022
 Limit Applied: -13dBm converted to field strength
 Ambient Temperature: 20.9°C
 Relative Humidity: 22.2%
 Atmospheric Pressure: 982.3 mbar

Deviations, Additions, or Exclusions: None



Band 12



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2131.500000	45.96	82.250	36.29	1000.000	100.0	V	325.0	3.28
5428.500000	41.88	82.250	40.37	1000.000	100.0	H	34.0	9.99
10289.500000	48.33	82.250	33.92	1000.000	410.0	V	292.0	17.58
16486.500000	55.09	82.250	27.16	1000.000	100.0	H	287.0	25.58

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2131.500000	27.20	82.250	55.05	1000.000	100.0	V	325.0	3.28
5428.500000	27.85	82.250	54.40	1000.000	100.0	H	34.0	9.99
10289.500000	34.68	82.250	47.57	1000.000	410.0	V	292.0	17.58
16486.500000	41.87	82.250	40.38	1000.000	100.0	H	287.0	25.58

Test Personnel:	<u>Michael Carlson</u>	Test Date:	<u>3/27/2022</u>
Supervising/Reviewing Engineer:	<u>(Where Applicable) N/A</u>	Limit Applied:	<u>-13dBm converted to field strength</u>
Product Standard:	<u>FCC Part 27</u>	Ambient Temperature:	<u>20.9°C</u>
Input Voltage:	<u>7VDC</u>	Relative Humidity:	<u>22.2%</u>
Pretest Verification w / Ambient Signals or BB Source:	<u>Yes</u>	Atmospheric Pressure:	<u>982.3 mbar</u>



7 Revision History

Revision Level	Date	Report Number	Prepared By	Reviewed By	Notes
0	3/31/2022	105007044LEX-003	MC	BL	Original Issue