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OTODATA WIRELESS NETWORK INC. TEST REPORT

SCOPE OF WORK

EMC TESTING - GEN II

REPORT NUMBER

104426030LEX-003.1

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EMC TEST REPORT

(FULL COMPLIANCE)

Report Number: 104426030LEX-003.1

Project Number: G104426030

Report Issue Date: 2/14/2021

Product Name: GEN II

Model(s) Tested: MT4AD16W1

Standards: Title 47 CFR Part 15.247

RSS-247 Issue 2 RSS-Gen Issue 5

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

Client:
OTODATA WIRELESS NETWORK INC.
9280 Boul. De l'Acadie
Montreal, QC H4N 3C5
Canada

Report prepared by

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Report reviewed by

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Table of Contents

1	Introduction and Conclusion	4
2	Test Summary	4
3	Client Information	5
4	Description of Equipment under Test and Variant Models	6
5	System Setup and Method	7
6	Receiver Spurious Emissions	8
7	Transmitter Spurious Emissions	13
8	Output Power	27
9	Occupied Bandwidth	32
10	Power Spectral Density	. 45
11	Conducted Spurious Emissions	. 49
12	Antenna Requirement	53
13	Revision History	. 54

Product: GEN II Date: 2/14/2021

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	Receiver Spurious Emissions (ANSI C63.4: 2014)	Pass
7	Transmitter Spurious Emissions (FCC Part 15.247(d), RSS-247 Issue 2 § 5.5)	Pass
8	Output Power (FCC Part 15.247(b)(3), RSS-247 Issue 2 § 5.4(d))	Pass
9	Occupied Bandwidth (FCC Part 15.247, RSS-247 Issue 2 § 5.2(a))	Pass
10	Power Spectral Density (FCC Part 15.247(e), RSS-247 Issue 2 § 5.2(b))	Pass
11	Conducted Spurious Emissions (FCC Part 15.247(d), RSS-247 Issue 2 § 5.5)	Pass
12	Antenna Requirement (FCC Part 15.203, RSS-Gen Issue 5 § 6.8)	Pass
	Conducted Emissions (ANSI C63.4: 2014)	N/A ¹

¹ Not applicable since this device is battery powered and does not connect to the AC mains.

Product: GEN II Date: 2/14/2021

3 Client Information

This product was tested at the request of the following:

	Client Information		
Client Name: OTODATA WIRELESS NETWORK INC.			
Address:	9280 Boul. De l'Acadie		
	Montreal, QC H4N 3C5		
	Canada		
Contact:	Pascal Turcotte		
Email:	pturcotte@otodata.ca		
	Manufacturer Information		
Manufacturer Name:	OTODATA WIRELESS NETWORK INC.		
Manufacturer Address:	9280 Boul. De l'Acadie		
	Montreal, QC H4N 3C5		
	Canada		

Product: GEN II Date: 2/14/2021

4 Description of Equipment under Test and Variant Models

	Equipment Under Test		
Product Name	GEN II		
Model Number	MT4AD16W1		
Hardware Version	C024		
Software Version	2009		
Supported Transmit Bands Bluetooth Low Energy			
	2402 – 2480MHz		
Receive Date	10/02/2020		
Test Start Date	10/05/2020		
Test End Date	10/10/2020		
Device Received Condition	Good		
Test Sample Type Production			
Rated Voltage 3.6VDC Battery			
Antenna	PCB Trace Antenna. 2.14dBi Gain		

Description of Equipment Under Test (provided by client)

The MT4AD16W1 is a remote tank level monitoring device. It is intended to be powered by a non-rechargeable lithium battery pack for a predicted average lifetime of 10 years.

The device reads the tank level sensor every few minutes. When a significant level change is detected, the microcontroller activates the cellular module. The latter then attaches to the preferred network and reports the data to a server. If there is no level change after 24 hours, the unit performs a daily report using the same procedure. The microcontroller communicates with the cellular module using AT commands (through a serial port).

The MT4AD16W1 uses low data volume: up to 100KB per month, but usually around 10KB per month.

The unit uses Bluetooth advertising to allow infield testing and diagnostics as well as enabling possible firmware upgrades. The microcontroller has an embedded 2.4GHz transceiver. The manufacturer provides the protocol stack for Bluetooth Low Energy. A PCB antenna over a ground plane is used as Bluetooth antenna.

4.1 Variant Models:

There were no variant models covered by this evaluation.

Product: GEN II Date: 2/14/2021

5 System Setup and Method

5.1 Method:

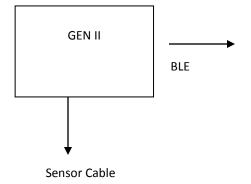
Configuration as required by ANSI C63.4: 2014 and ANSI C63.10:2013

No.	Descriptions of EUT Exercising
1	Test commands were used to force the GEN II to transmit a Bluetooth Low Energy (BLE) signal or low,
	middle, or high channel.
2	Idle, not transmitting.

	Cables								
ID	ID Description Length (m) Shielding Ferrites Termination								
1	Sensor Cable	1	None	No	sensor				

Support Equipment					
Description Manufacturer Model Number Serial Number					
None					

5.2 EUT Block Diagram:



Product: GEN II Date: 2/14/2021

6 Receiver Spurious Emissions

6.1 Test Method

Tests are performed in accordance with ANSI C63.4: 2014

TEST SITE: 10m ALSE

Site Designation: 10m Chamber

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucispr
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 $U_{\it lab}$ is less than the corresponding $U_{\it CISPR}$ 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.

Product: GEN II Date: 2/14/2021

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 $FS = Field Strength in dB\mu V/m$

RA = Receiver Amplitude (including preamplifier) in $dB\mu V$

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 dB/m

CF = 1.6 dB

AG = 29.0 dB

 $FS = 32 dB\mu V/m$

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

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

Example:

FS = RA + AF + CF - AG = 52.0 + 7.4 + 1.6 - 29.0 = 32.0UF = $10^{(32 \text{ dB}\mu\text{V}/20)} = 39.8 \mu\text{V/m}$

Product: GEN II Date: 2/14/2021

6.3 Test Equipment Used

Description	Asset	Manufacturer	Model	Cal Date	Cal Due
EMI Test Receiver	3900	Rohde & Schwarz	ESU40	10/5/2020	10/5/2021
Bilog Antenna (30MHz- 1GHz)	7085	SunAR	JB6	9/4/2020	9/4/2021
Horn Antenna (18-40GHz)	3779	ETS	3116c	7/23/2020	7/23/2021
Horn Antenna	4001	ETS	3117	1/16/2020	1/16/2021
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
3m Cable Antenna → Preamp	3074			12/4/2019	12/4/2020
3m Cable Preamplifier	3918	Rohde & Schwarz	TS-PR18	12/4/2019	12/4/2020
3m Cable Preamp→Chamber	2588			12/4/2019	12/4/2020
3m Cable Chamber→Control Room	2593			12/4/2019	12/4/2020
3m Cable Control Room→Receiver	2592			12/4/2019	12/4/2020

6.4 Software Utilized

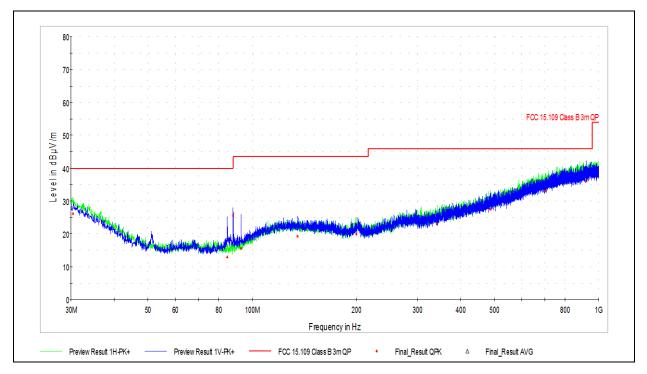
Name	Manufacturer	Version
EMC32	Rohde & Schwarz	Version 9.15.02

6.5 Test Results

The sample tested was found to be **compliant**.



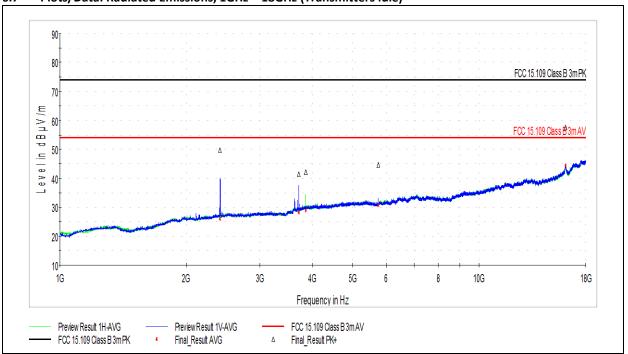
6.6 Plots/Data: Radiated Emissions, 30MHz – 1GHz (Transmitters Idle)



Frequency	QuasiPeak	Limit	Margin	Bandwidth	Height		Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(kHz)	(cm)	Pol	(deg)	(dB)
30.377222	26.05	40.00	13.95	120.000	333.1	Н	90.0	28.6
84.751111	12.94	40.00	27.06	120.000	400.1	V	256.0	15.9
88.092222	25.66	43.52	17.86	120.000	105.4	V	218.0	16.6
92.888333	15.47	43.52	28.05	120.000	129.9	V	36.0	17.4
135.029445	19.31	43.52	24.21	120.000	285.0	V	183.0	22.2
199.857778	19.81	43.52	23.71	120.000	104.9	Н	340.0	22.2
341.531667	23.05	46.02	22.97	120.000	273.7	Н	93.0	25.3
486.007778	27.51	46.02	18.51	120.000	348.5	Н	65.0	29.4
701.617222	33.12	46.02	12.90	120.000	400.0	Н	210.0	34.0
921.214444	36.05	46.02	9.97	120.000	154.0	V	191.0	36.4

Test Personnel:	Ben Coolbear	Test Date:	10/07/2020
Supervising/Reviewing Engineer:			
(Where Applicable)	NA	Limit Applied:	Class B
	FCC Part 15B		
Product Standard:	ICES-003 Issue 6	Ambient Temperature:	26.3 °C
Input Voltage:	3.9 VDC	Relative Humidity:	40.5 %
Pretest Verification w / Ambient			
Signals or BB Source:	Yes	Atmospheric Pressure:	985.3 mbar





Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2409.500000	49.79	73.98	24.19	1000.000	140.0	V	19.0	3.7
3713.000000	41.36	73.98	32.62	1000.000	100.0	V	0.0	6.5
3861.000000	42.05	73.98	31.93	1000.000	305.0	Н	243.0	6.9
5748.500000	44.54	73.98	29.44	1000.000	100.0	V	359.0	9.6
16094.500000	57.63	73.98	16.35	1000.000	302.0	Η	297.0	25.5

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2409.500000	25.85	53.98	28.13	1000.000	140.0	V	19.0	3.7
3713.000000	28.22	53.98	25.76	1000.000	100.0	V	0.0	6.5
3861.000000	28.89	53.98	25.09	1000.000	305.0	Н	243.0	6.9
5748.500000	30.65	53.98	23.33	1000.000	100.0	V	359.0	9.6
16094.500000	44.44	53.98	9.54	1000.000	302.0	Н	297.0	25.5

Test Personnel:	Ben Coolbear	Test Date:	10/09/2020
Supervising/Reviewing Engineer:			
(Where Applicable)	NA	Limit Applied:	Class B
	FCC Part 15B		
Product Standard:	ICES-003 Issue 6	Ambient Temperature:	24.7 °C
Input Voltage:	3.9 VDC	Relative Humidity:	46.6 %
Pretest Verification w / Ambient			
Signals or BB Source:	Yes	Atmospheric Pressure:	989.1 mbar

Product: GEN II Date: 2/14/2021

7 **Transmitter Spurious Emissions**

Test Limits 7.1

FCC Part 15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

RSS-247 Issue 2 § 5.5:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

7.2 Test Method

Tests are performed in accordance with ANSI C63.10:2013 § 11.12.1 Radiated emission measurements.

Report Number: 104426030LEX-003.1

Product: GEN II Date: 2/14/2021

7.3 Test Equipment Used

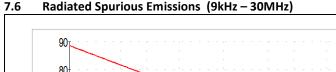
Description	Asset	Manufacturer	Model	Cal Date	Cal Due
EMI Test Receiver	3900	Rohde & Schwarz	ESU40	10/5/2020	10/5/2021
Bilog Antenna (30MHz- 1GHz)	7085	SunAR	JB6	9/4/2020	9/4/2021
Magnetic Loop Antenna	2366	ETS	6502	7/17/2020	7/17/2021
Horn Antenna (18-40GHz)	3779	ETS	3116c	7/23/2020	7/23/2021
Horn Antenna	4001	ETS	3117	1/16/2020	1/16/2021
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 (18-40GHz)	3921	Rohde & Schwarz	TS-PR40	12/4/2019	12/4/2020
Coaxial Cable (40GHz)	7020			12/4/2019	12/4/2020
Coaxial Cable (40GHz)	7021			12/4/2019	12/4/2020
3m Cable Antenna → Preamp	3074			12/4/2019	12/4/2020
3m Cable Preamplifier	3918	Rohde & Schwarz	TS-PR18	12/4/2019	12/4/2020
3m Cable Preamp→Chamber	2588			12/4/2019	12/4/2020
3m Cable Chamber→Control Room	2593			12/4/2019	12/4/2020
3m Cable Control Room→Receiver	2592			12/4/2019	12/4/2020

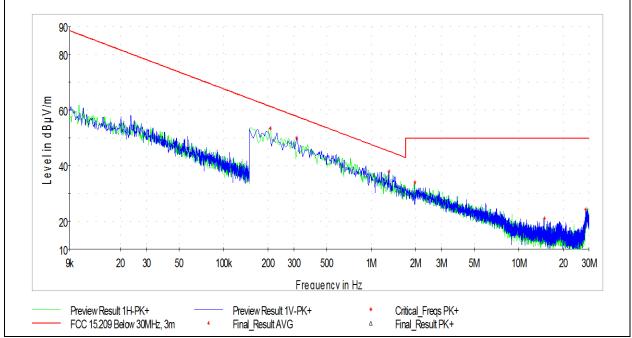
7.4 Software Utilized

Name	Manufacturer	Version		
EMC32	Rohde & Schwarz	Version 9.15.02		

7.5 Test Results

The sample tested was found to be **compliant**. The data presented represents the worst case emissions with the device positioned in three orthogonal positions. All observed emissions outside of the band of operation were attenuated by at least 20dB.





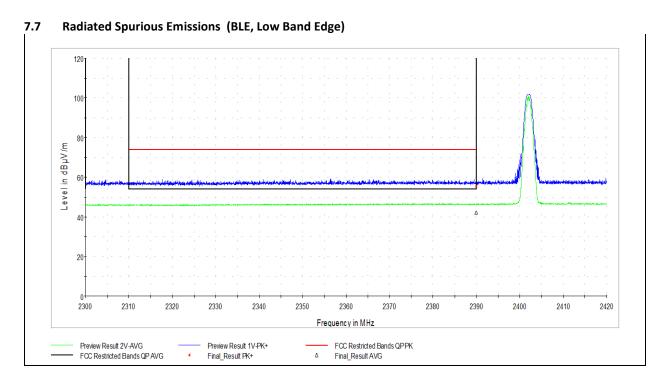
Note: The scan above was performed in a continuous max-hold mode and includes the worst case emissions with the transmitter operating on low, mid, and high channels.

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Azimuth (deg)	Corr. (dB)
0.207066	53.45	61.28	7.83	9kHz	180.0	12.1
0.312419	49.89	57.71	7.82	9kHz	0.0	11.9
1.317662	38.01	45.21	7.20	9kHz	180.0	11.9
1.971728	33.93	50.00	16.07	9kHz	0.0	11.8
14.859904	20.98	50.00	29.02	9kHz	0.0	11.3
28.454824	24.08	50.00	25.92	9kHz	0.0	9.4

Test Personnel:	Bryan Taylor	Test Date:	1/30/2021
Supervising/Reviewing Engineer:	_		
(Where Applicable)	N/A	Limit Applied:	15.209
Product Standard:	FCC Part 15C	Ambient Temperature:	24.3°C
Input Voltage:	3.9 VDC	Relative Humidity:	52.8%
Pretest Verification w / Ambient			
Signals or BB Source:	Yes	Atmospheric Pressure:	987.3 mbar

Deviations, Additions, or Exclusions: This data was measured in a semi-anechoic chamber that has been correlated to measurements performed in an open field.





Final_Result_PK+

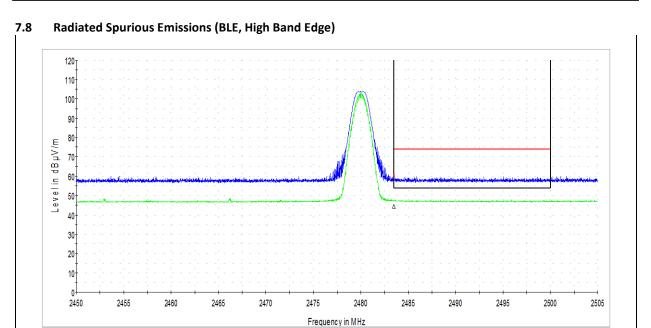
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2389.976923	55.25	73.98	18.73	1000.000	182.0	V	200.0	38.6

Final_Result_AVG

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2389.976923	42.30	53.98	11.68	1000.000	182.0	V	200.0	38.6

Test Personnel:	Bryan Taylor	Test Date:	9/18/2020
Supervising/Reviewing Engineer:			
(Where Applicable)	N/A	Limit Applied:	15.205 Restricted Bands
Product Standard:	FCC Part 15C	Ambient Temperature:	24.3°C
Input Voltage:	3.9VDC (Battery)	Relative Humidity:	52.8%
Pretest Verification w / Ambient			
Signals or BB Source:	Yes	Atmospheric Pressure:	987.3 mbar





Final Result PK+

Preview Result 2V-AVG

FCC Restricted Bands QP AVG

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2483.507692	60.39	73.98	13.59	1000.000	358.0	V	189.0	39.0

FCC Restricted Bands QPPK

Final_Result AVG

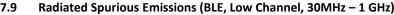
Preview Result 1V-PK+

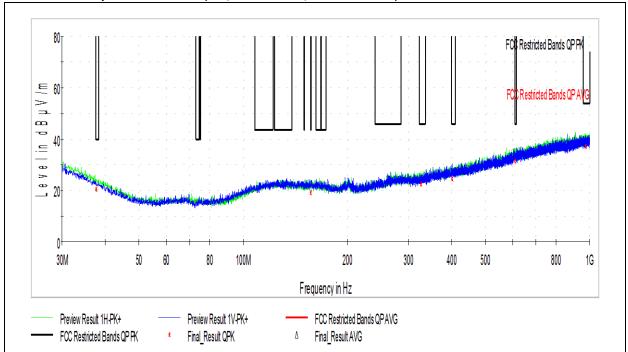
Final_Result PK+

Final_Result_AVG

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2483.507692	44.50	53.98	9.48	1000.000	358.0	٧	189.0	39.0

Test Personnel:	Bryan Taylor	Test Date:	10/10/2020
Supervising/Reviewing Engineer:			
(Where Applicable)	N/A	Limit Applied:	15.205 Restricted Bands
Product Standard:	FCC Part 15C	Ambient Temperature:	24.3°C
Input Voltage:	3.9VDC (Battery)	Relative Humidity:	52.8%
Pretest Verification w / Ambient			
Signals or BB Source:	Yes	Atmospheric Pressure:	987.3 mbar

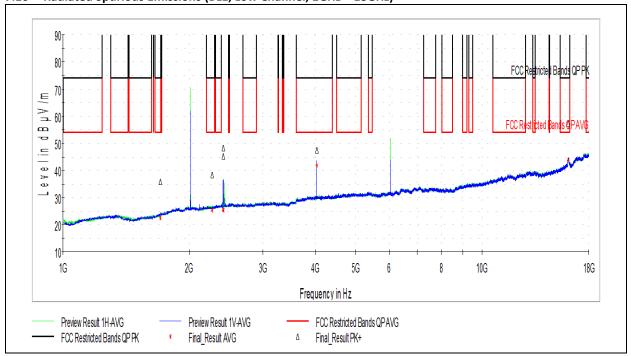




Frequency	QuasiPeak	Limit	Margin	Bandwidth	Height		Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(kHz)	(cm)	Pol	(deg)	(dB)
37.652222	20.34	40.00	19.66	120.000	399.9	Н	36.0	23.2
156.746667	19.20	43.52	24.32	120.000	165.9	Н	338.0	21.6
326.011667	22.46	46.02	23.56	120.000	212.8	Н	7.0	24.9
400.162778	24.51	46.02	21.51	120.000	264.6	V	137.0	26.6
608.120000	31.49	46.02	14.53	120.000	311.9	Н	303.0	32.2
973.702222	37.09	53.98	16.89	120.000	391.1	Н	272.0	37.6

Test Personnel:	Ben Coolbear	Test Date:	10/09/2020
Supervising/Reviewing Engineer:			
(Where Applicable)	NA	Limit Applied:	15.205 Restricted Bands
Product Standard:	FCC Part 15C	Ambient Temperature:	24.7 °C
Input Voltage:	3.9 VDC	Relative Humidity:	46.4 %
Pretest Verification w / Ambient			
Signals or BB Source:	Yes	Atmospheric Pressure:	989.1 mbar



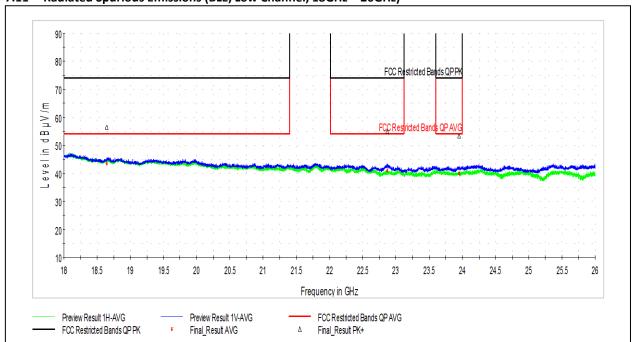


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1707.500000	35.89	73.98	38.09	1000.000	100.0	V	125.0	0.3
2271.000000	38.29	73.98	35.69	1000.000	295.0	Н	342.0	3.4
4033.500000	47.37	73.98	26.61	1000.000	183.0	V	80.0	7.2
16070.000000	57.24	73.98	16.74	1000.000	100.0	Н	113.0	25.0

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1707.500000	22.36	53.98	31.62	1000.000	100.0	V	125.0	0.3
2271.000000	25.20	53.98	28.78	1000.000	295.0	Н	342.0	3.4
4033.500000	41.67	53.98	12.31	1000.000	183.0	V	80.0	7.2
16070.000000	43.81	53.98	10.17	1000.000	100.0	Н	113.0	25.0

Test Personnel:	Ben Coolbear	Test Date:	10/09/2020
Supervising/Reviewing Engineer:			
(Where Applicable)	NA	Limit Applied:	15.205 Restricted Bands
Product Standard:	FCC Part 15C	Ambient Temperature:	24.7 °C
Input Voltage:	3.9 VDC	Relative Humidity:	46.4 %
Pretest Verification w / Ambient			
Signals or BB Source:	Yes	Atmospheric Pressure:	989.1 mbar

7.11 Radiated Spurious Emissions (BLE, Low Channel, 18GHz – 26GHz)

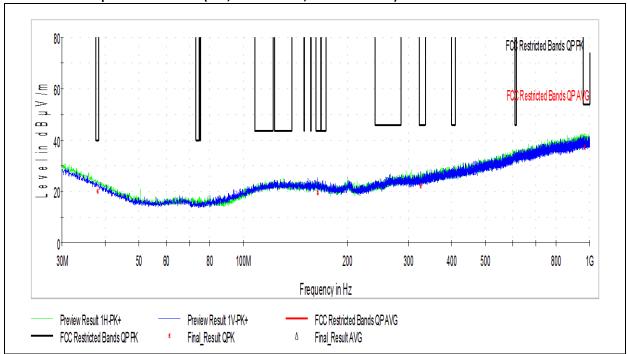


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
18643.000000	56.48	73.98	17.50	1000.000	410.0	V	124.0	18.6
22868.500000	54.88	73.98	19.10	1000.000	410.0	V	342.0	6.5
23948.500000	53.26	73.98	20.72	1000.000	109.0	V	188.0	6.3

Frequency (MHz)	Average (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
18643.000000	43.41	53.98	10.57	1000.000	410.0	V	124.0	18.6
22868.500000	41.12	53.98	12.86	1000.000	410.0	٧	342.0	6.5
23948.500000	39.92	53.98	14.06	1000.000	109.0	V	188.0	6.3

Test Personnel:	Ben Coolbear	Test Date:	10/09/2020
Supervising/Reviewing Engineer:		_	
(Where Applicable)	NA	Limit Applied:	15.205 Restricted Bands
Product Standard:	FCC Part 15C	Ambient Temperature:	24.7 °C
Input Voltage:	3.9 VDC	Relative Humidity:	46.4 %
Pretest Verification w / Ambient			
Signals or BB Source:	Yes	Atmospheric Pressure:	989.1 mbar

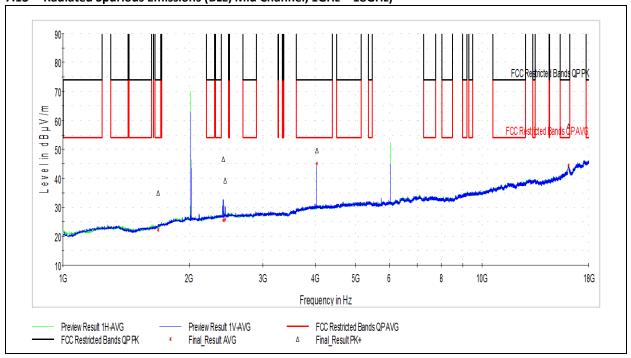
7.12 Radiated Spurious Emissions (BLE, Mid Channel, 30MHz – 1 GHz)



Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
37.975556	20.03	40.00	19.97	120.000	105.2	Н	293.0	23.0
164.183333	19.38	43.52	24.14	120.000	129.9	V	238.0	21.8
324.826111	22.01	46.02	24.01	120.000	359.3	V	126.0	24.3
965.565000	37.04	53.98	16.94	120.000	106.6	Н	101.0	37.5

Test Personnel:	Ben Coolbear	Test Date:	10/09/2020
Supervising/Reviewing Engineer:			
(Where Applicable)	NA	Limit Applied:	15.205 Restricted Bands
Product Standard:	FCC Part 15C	Ambient Temperature:	24.7 °C
Input Voltage:	3.9 VDC	Relative Humidity:	46.4 %
Pretest Verification w / Ambient			
Signals or BB Source:	Yes	Atmospheric Pressure:	989.1 mbar

7.13 Radiated Spurious Emissions (BLE, Mid Channel, 1GHz – 18GHz)

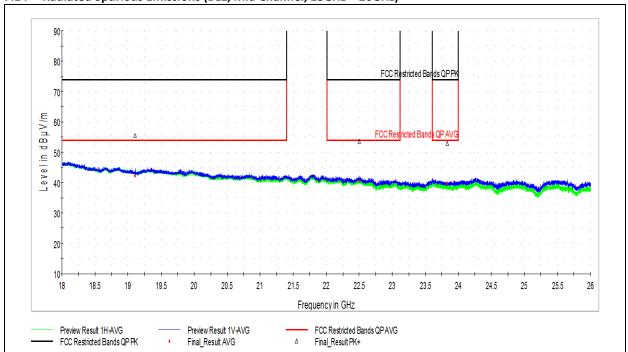


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1685.000000	35.00	73.98	38.98	1000.000	304.0	V	316.0	-0.2
4034.000000	49.57	73.98	24.41	1000.000	161.0	V	89.0	7.2
16102.500000	57.99	73.98	15.99	1000.000	100.0	Н	76.0	25.6

Frequency	Average	Limit	Margin	Bandwidth	Height		Azimuth	Corr.
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(kHz)	(cm)	Pol	(deg)	(dB)
1685.000000	22.10	53.98	31.88	1000.000	304.0	V	316.0	-0.2
4034.000000	45.03	53.98	8.95	1000.000	161.0	٧	89.0	7.2
16102.500000	44.49	53.98	9.49	1000.000	100.0	Н	76.0	25.6

Test Personnel:	Ben Coolbear	Test Date:	10/09/2020
Supervising/Reviewing Engineer:			
(Where Applicable)	NA	Limit Applied:	15.205 Restricted Bands
Product Standard:	FCC Part 15C	Ambient Temperature:	24.7 °C
Input Voltage:	3.9 VDC	Relative Humidity:	46.4 %
Pretest Verification w / Ambient			
Signals or BB Source:	Yes	Atmospheric Pressure:	989.1 mbar

7.14 Radiated Spurious Emissions (BLE, Mid Channel, 18GHz – 26GHz)

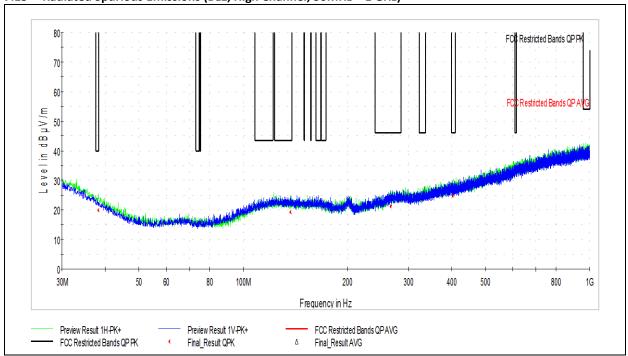


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
19106.000000	55.57	73.98	18.41	1000.000	410.0	Н	174.0	17.7
22500.500000	53.58	73.98	20.40	1000.000	336.0	V	286.0	7.4
23834.000000	52.87	73.98	21.11	1000.000	410.0	V	270.0	6.2

F	requency (MHz)	Average (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
193	106.000000	42.26	53.98	11.72	1000.000	410.0	Н	174.0	17.7
22!	500.500000	40.55	53.98	13.43	1000.000	336.0	V	286.0	7.4
238	834.000000	39.86	53.98	14.12	1000.000	410.0	V	270.0	6.2

Test Personnel:	Ben Coolbear	Test Date:	10/09/2020
Supervising/Reviewing Engineer:			
(Where Applicable)	NA	Limit Applied:	15.205 Restricted Bands
Product Standard:	FCC Part 15C	Ambient Temperature:	24.7 °C
Input Voltage:	3.9 VDC	Relative Humidity:	46.4 %
Pretest Verification w / Ambient	_		
Signals or BB Source:	Yes	Atmospheric Pressure:	989.1 mbar

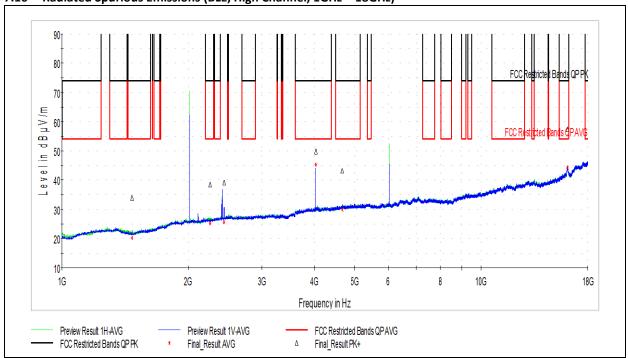
7.15 Radiated Spurious Emissions (BLE, High Channel, 30MHz - 1 GHz)



Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
38.191111	19.87	40.00	20.13	120.000	165.6	Н	10.0	22.8
136.915556	19.22	43.52	24.30	120.000	222.5	V	156.0	22.1
266.356667	21.11	46.02	24.91	120.000	264.6	Н	292.0	23.3
403.072778	24.68	46.02	21.34	120.000	379.3	V	293.0	26.7

Test Personnel:	Ben Coolbear	Test Date:	10/09/2020
Supervising/Reviewing Engineer:			
(Where Applicable)	NA	Limit Applied:	15.205 Restricted Bands
Product Standard:	FCC Part 15C	Ambient Temperature:	24.7 °C
Input Voltage:	3.9 VDC	Relative Humidity:	46.4 %
Pretest Verification w / Ambient			
Signals or BB Source:	Yes	Atmospheric Pressure:	989.1 mbar



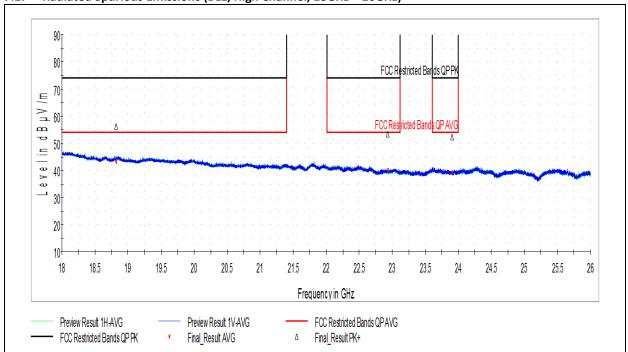


Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1469.500000	33.85	73.98	40.13	1000.000	303.0	V	194.0	-1.9
2257.500000	38.43	73.98	35.55	1000.000	298.0	Н	258.0	3.3
4034.500000	49.76	73.98	24.22	1000.000	184.0	V	82.0	7.2
4667.500000	43.18	73.98	30.80	1000.000	297.0	Н	235.0	8.2
16108.500000	57.54	73.98	16.44	1000.000	100.0	Н	214.0	25.4

Frequency (MHz)	Average (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1469.500000	20.12	53.98	33.86	1000.000	303.0	V	194.0	-1.9
2257.500000	25.07	53.98	28.91	1000.000	298.0	Н	258.0	3.3
4034.500000	45.33	53.98	8.65	1000.000	184.0	V	82.0	7.2
4667.500000	29.85	53.98	24.13	1000.000	297.0	Н	235.0	8.2
16108.500000	44.30	53.98	9.68	1000.000	100.0	Н	214.0	25.4

Test Personnel:	Ben Coolbear	Test Date:	10/09/2020
Supervising/Reviewing Engineer:			
(Where Applicable)	NA	Limit Applied:	15.205 Restricted Bands
Product Standard:	FCC Part 15C	Ambient Temperature:	24.7 °C
Input Voltage:	3.9 VDC	Relative Humidity:	46.4 %
Pretest Verification w / Ambient			
Signals or BB Source:	Yes	Atmospheric Pressure:	989.1 mbar

7.17 Radiated Spurious Emissions (BLE, High Channel, 18GHz - 26GHz)



Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
18820.500000	56.34	73.98	17.64	1000.000	410.0	Н	153.0	18.4
22932.500000	53.28	73.98	20.70	1000.000	326.0	V	172.0	6.6
23903.000000	52.15	73.98	21.83	1000.000	126.0	V	201.0	5.9

	Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
	18820.500000	43.23	53.98	10.75	1000.000	410.0	Н	153.0	18.4
	22932.500000	40.06	53.98	13.92	1000.000	326.0	V	172.0	6.6
ĺ	23903.000000	38.96	53.98	15.02	1000.000	126.0	V	201.0	5.9

Test Personnel:	Ben Coolbear	Test Date:	10/09/2020
Supervising/Reviewing Engineer:			
(Where Applicable)	NA	Limit Applied:	15.205 Restricted Bands
Product Standard:	FCC Part 15C	Ambient Temperature:	24.7 °C
Input Voltage:	3.9 VDC	Relative Humidity:	46.4 %
Pretest Verification w / Ambient			
Signals or BB Source:	Yes	Atmospheric Pressure:	989.1 mbar

Product: GEN II Date: 2/14/2021

8 Output Power

8.1 Test Limits

FCC Part 15.247(b)(3):

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

RSS-247 Issue 2 § 5.4(d):

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signalling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

Evaluation For: OTODATA WIRELESS NETWORK INC.
Product: GEN II

Date: 2/14/2021

8.2 Test Method

Tests are performed in accordance with ANSI C63.10:2013 § 11.9.1.1

8.3 Test Equipment Used

Description	Asset	Manufacturer	Model	Cal Date	Cal Due
EMI Test Receiver	3900	Rohde & Schwarz	ESU40	10/5/2020	10/5/2021
Coaxial Cable	6086	Megaphase	SF26-S1S1-40	12/4/2019	12/4/2020

8.4 Test Results

The device was found to be **compliant**. The peak output power was less than 1W.

8.5 Test Conditions

Test Personnel:	Bryan Taylor	Test Date:	10/25/2020
Supervising/Reviewing Engineer:			
(Where Applicable)	NA	Limit Applied:	1 Watt
	FCC Part 15.247		
Product Standard:	RSS-247 Issue 2	Ambient Temperature:	22.6C
Input Voltage:	3.9VDC	Relative Humidity:	41.2%
Pretest Verification w / Ambient			
Signals or BB Source:	Yes	Atmospheric Pressure:	991.2mbar

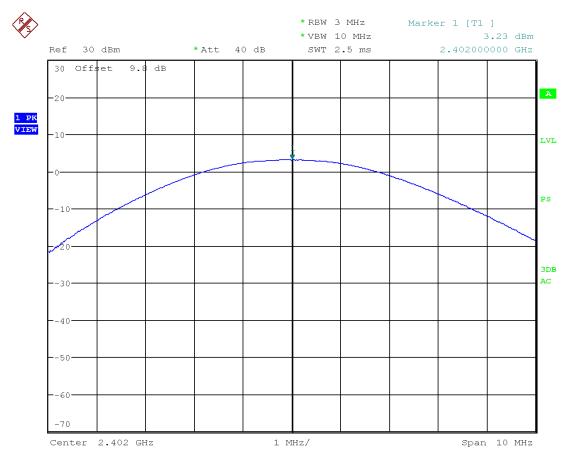
8.6 Test Data

Channel	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
0	2402	3.23	30	26.77	PASS
39	2440	3.09	30	26.91	PASS
79	2480	3.46	30	26.54	PASS

Deviations, Additions, or Exclusions: None

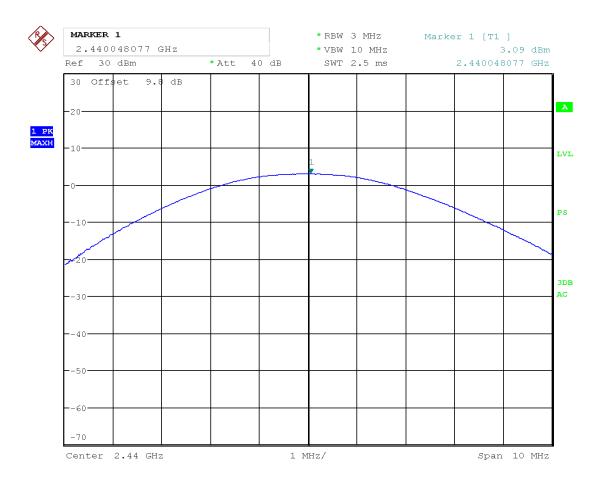


EMC Test Report Date: 2/14/2021



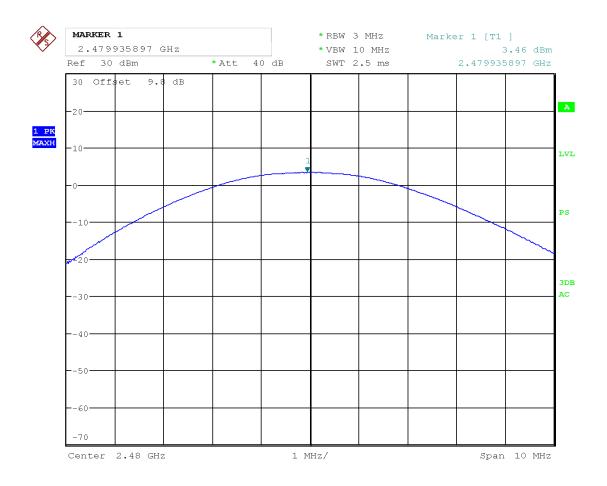
Date: 25.0CT.2020 15:52:14

Peak Output Power 2402MHz



Date: 25.OCT.2020 15:54:00

Peak Output Power 2440MHz



Date: 25.OCT.2020 15:54:49

Peak Output Power 2480MHz

Product: GEN II Date: 2/14/2021

Occupied Bandwidth 9

9.1 **Test Limits**

FCC Part 15.247(a)(2):

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

RSS-247 Issue 2 § 5.2(a):

The minimum 6 dB bandwidth shall be 500 kHz.

9.2 **Test Method**

Tests are performed in accordance with ANSI C63.10:2013 § 11.8.1.

9.3 **Test Equipment Used**

Description	Asset	Manufacturer	Model	Cal Date	Cal Due
EMI Test Receiver	3900	Rohde & Schwarz	ESU40	10/5/2020	10/5/2021
Coaxial Cable	6086	Megaphase	SF26-S1S1-40	12/4/2019	12/4/2020

9.4 **Test Results**

The device was found to be **compliant**. The 6dB bandwidth was at least 500kHz.

9.5 **Test Conditions**

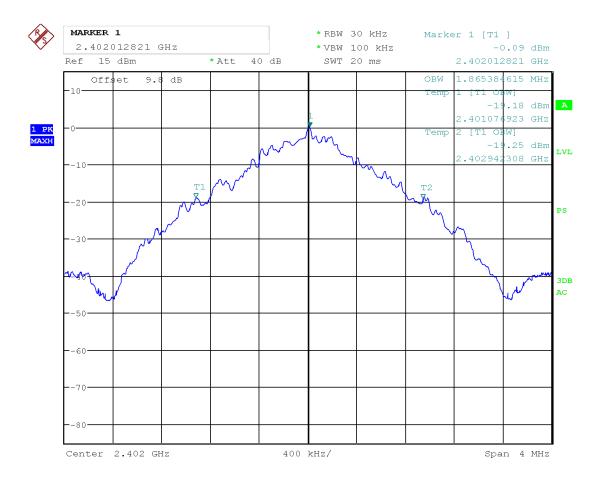
Test Personnel: Bryan Taylor Test Date: 10/25/2020 Supervising/Reviewing Engineer: (Where Applicable) NA Limit Applied: 500kHz (for 6dB bandwidth) FCC Part 15.247 Product Standard: RSS-247 Issue 2 Ambient Temperature: 22.1C Input Voltage: 3.9VDC Relative Humidity: 47.7% Pretest Verification w / Ambient Signals or BB Source: Yes Atmospheric Pressure: 992mbar

96 Tost Data

,	5.0 Test Data								
	Channel	Frequency (MHz)	DTS BW (kHz)	6dB BW (kHz)	99% BW (MHz)				
	0	2402	865.3	647.4	1.86				
	39	2440	826.9	551.3	1.77				
	79	2480	833.3	544.8	1.83				

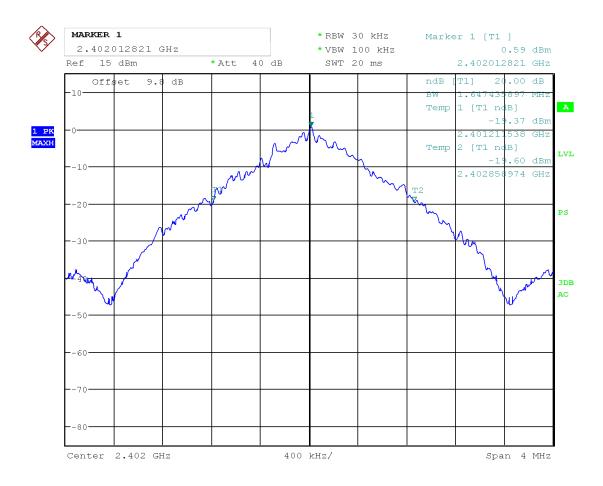
Non-Specific EMC Report Shell Rev. December 2017 Page 32 of 54

Report Number: 104426030LEX-003.1



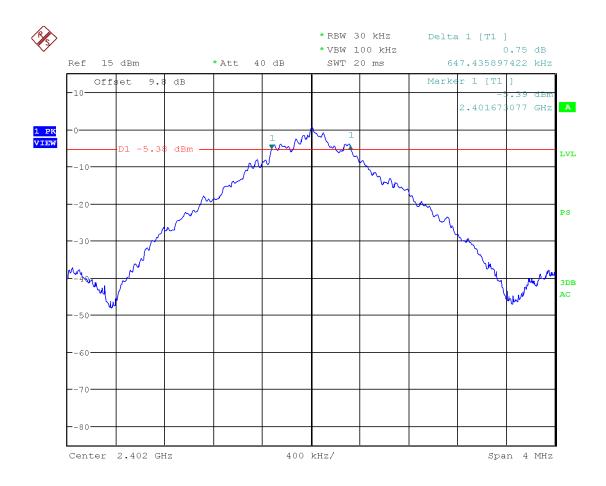
Date: 25.OCT.2020 16:06:36

99% Bandwidth 2402MHz



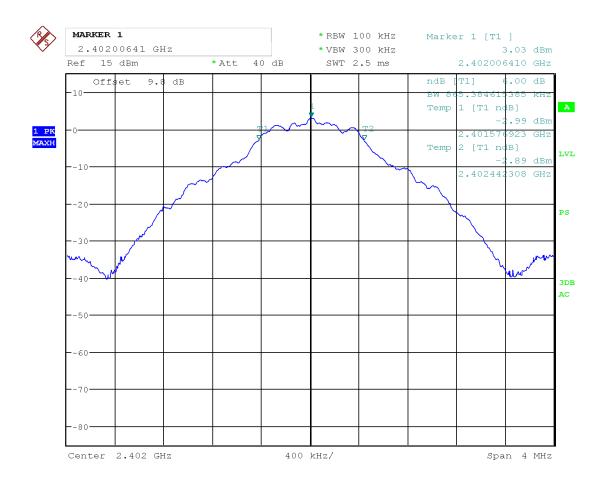
Date: 25.0CT.2020 16:10:58

20dB Down Bandwidth 2402MHz



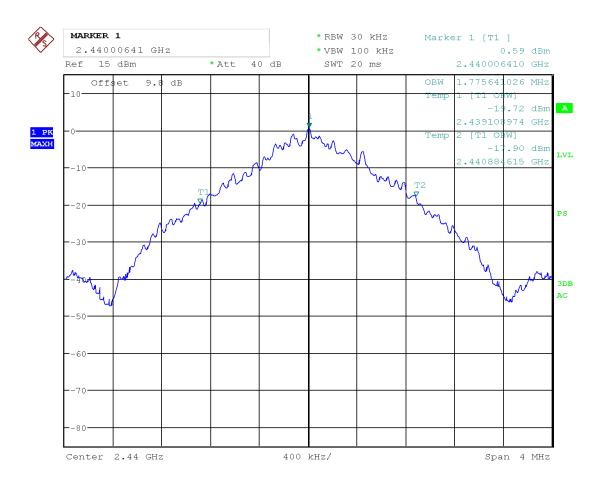
Date: 25.OCT.2020 16:15:52

6dB Down Bandwidth 2402MHz



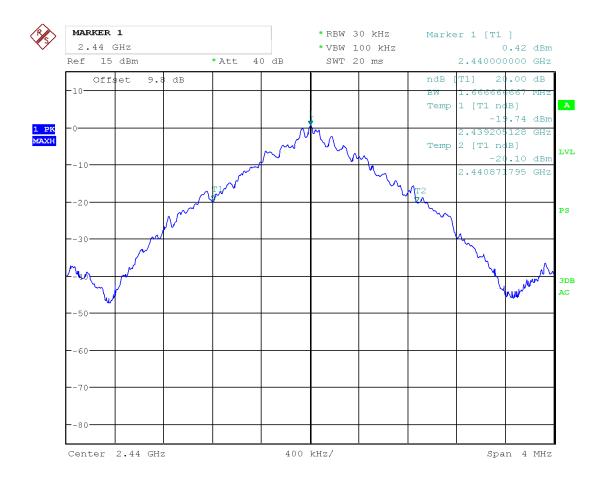
Date: 25.0CT.2020 16:22:51

DTS Bandwidth 2402MHz



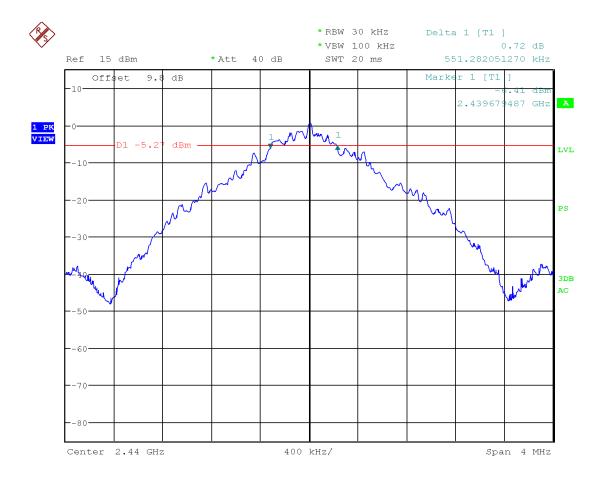
Date: 25.0CT.2020 16:07:28

99% Bandwidth 2440MHz



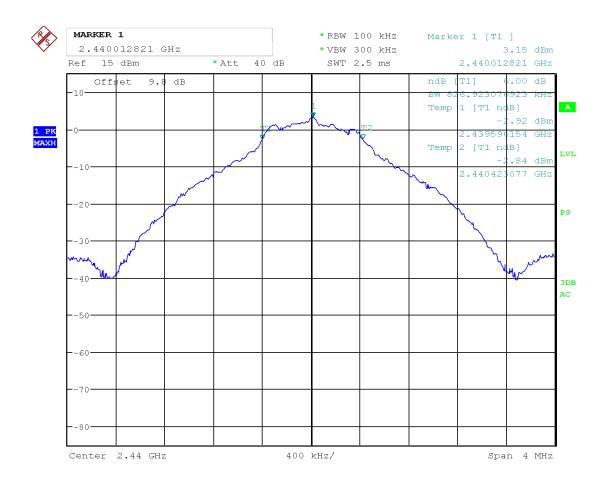
Date: 25.0CT.2020 16:11:41

20dB Down Bandwidth 2440MHz



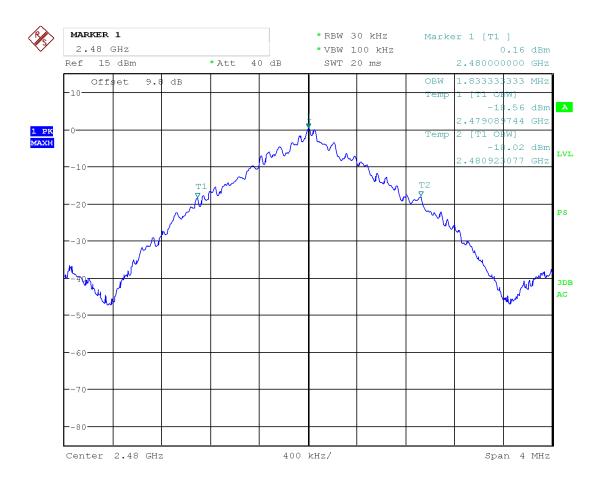
Date: 25.OCT.2020 16:18:07

6dB Down Bandwidth 2440MHz



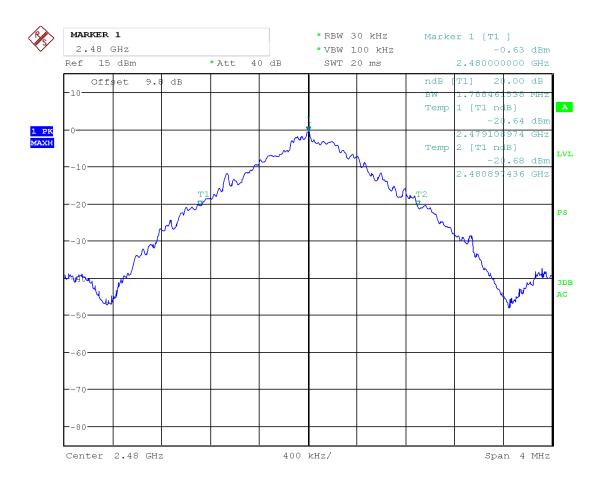
Date: 25.OCT.2020 16:23:38

DTS Bandwidth 2440MHz



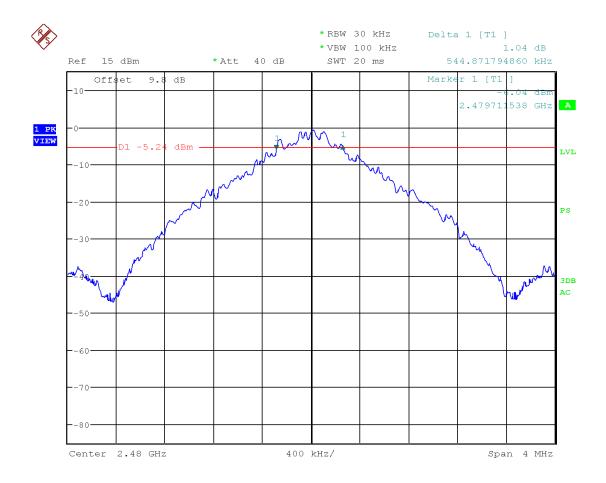
Date: 25.0CT.2020 16:08:35

99% Bandwidth 2480MHz



Date: 25.0CT.2020 16:12:29

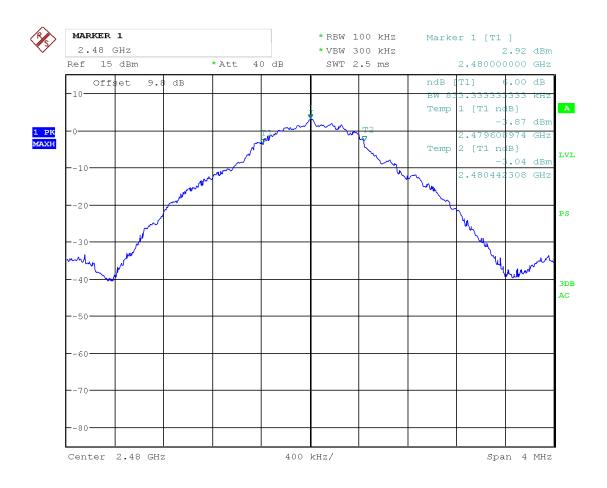
20dB Down Bandwidth 2480MHz



Date: 25.OCT.2020 16:19:45

6dB Down Bandwidth 2480MHz





Date: 25.0CT.2020 16:24:28

DTS Bandwidth 2480MHz

Product: GEN II Date: 2/14/2021

10 Power Spectral Density

10.1 Test Limits

FCC Part 15.247(e):

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

RSS-247 Issue 2 § 5.2(b):

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 5.4(d), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

10.2 Test Method

Tests are performed in accordance with ANSI C63.10:2013 § 11.10.2 Method PKPSD (peak PSD).

10.3 Test Equipment Used

Description	Asset	Manufacturer	Model	Cal Date	Cal Due
EMI Test Receiver	3900	Rohde & Schwarz	ESU40	10/5/2020	10/5/2021
Coaxial Cable	6086	Megaphase	SF26-S1S1-40	12/4/2019	12/4/2020

10.4 Test Results

The device was found to be compliant. The peak power spectral density was less than 8dBm.

10.5 Test Conditions

Test Personnel:	Bryan Taylor	Test Date:	10/25/2020
Supervising/Reviewing Engineer:			
(Where Applicable)	NA	Limit Applied:	8dBm / 3kHz
	FCC Part 15.247		
Product Standard:	RSS-247 Issue 2	Ambient Temperature:	22.6C
Input Voltage:	3.9VDC	Relative Humidity:	41.2%
Pretest Verification w / Ambient			
Signals or BB Source:	Yes	Atmospheric Pressure:	991.2mbar

Deviations, Additions, or Exclusions: None.

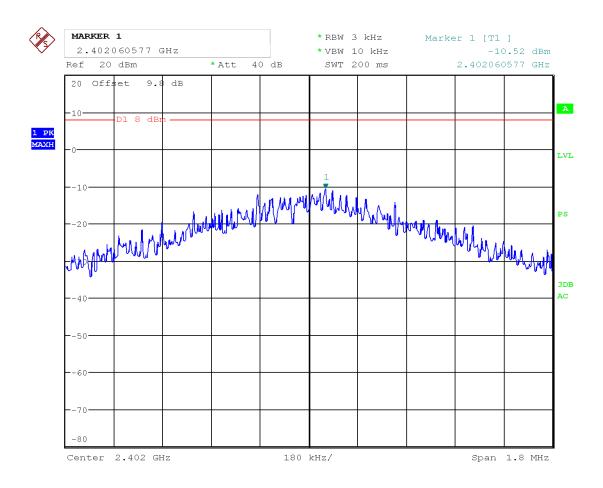
Page 45 of 54 Non-Specific EMC Report Shell Rev. December 2017 Report Number: 104426030LEX-003.1



Product: GEN II Date: 2/14/2021

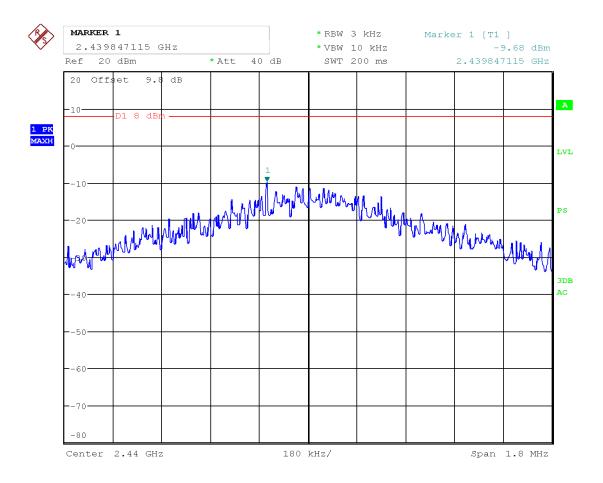
10.6 Test Data

Channel	Frequency (MHz)	PPSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)	Result
0	2402	-10.52	8	18.52	PASS
39	2440	-9.68	8	17.68	PASS
79	2480	-10.81	8	18.81	PASS



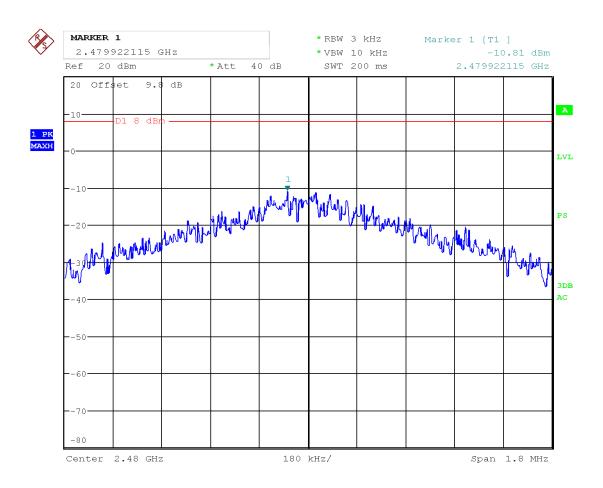
Date: 25.OCT.2020 16:01:25

Peak PSD 2402MHz



Date: 25.0CT.2020 16:02:54

Peak PSD 2440MHz



Date: 25.0CT.2020 16:03:41

Peak PSD 2480MHz

Product: GEN II Date: 2/14/2021

11 Conducted Spurious Emissions

11.1 Test Limits

FCC Part 15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

RSS-247 Issue 2 § 5.5:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

11.2 Test Method

Tests are performed in accordance with ANSI C63.10:2013 § 11.11 Emissions in nonrestricted frequency bands.

11.3 Test Equipment Used

Description	Asset	Manufacturer	Model	Cal Date	Cal Due
EMI Test Receiver	3900	Rohde & Schwarz	ESU40	10/5/2020	10/5/2021
Coaxial Cable	6086	Megaphase	SF26-S1S1-40	12/4/2019	12/4/2020

11.4 Test Results

The device was found to be **compliant**. All spurious emissions were found to be attenuated more than 20dB below the level of the fundamental.

Non-Specific EMC Report Shell Rev. December 2017 Page 49 of 54

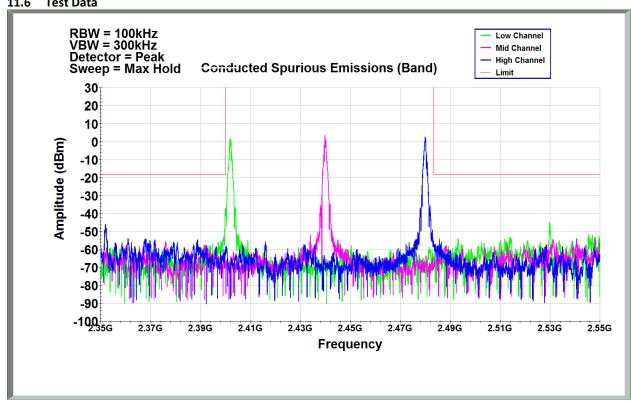
Report Number: 104426030LEX-003.1

Product: GEN II Date: 2/14/2021

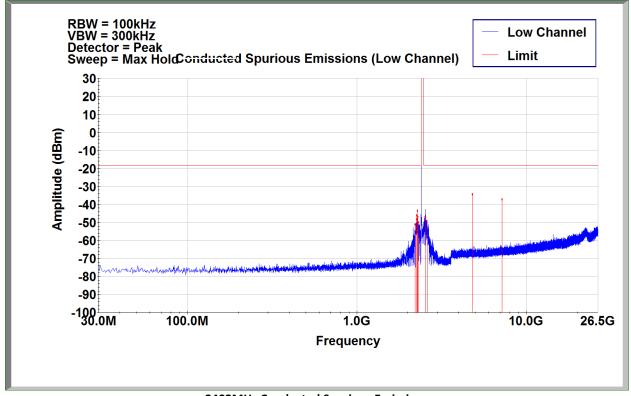
11.5 Test Conditions

Test Date: <u>10/25/20</u>20 Test Personnel: Bryan Taylor Supervising/Reviewing Engineer: (Where Applicable) Limit Applied: -20dBc FCC Part 15.247 RSS-247 Issue 2 Product Standard: Ambient Temperature: 22.6C 41.2% Input Voltage: 3.6VDC Relative Humidity: Pretest Verification w / Ambient Signals or BB Source: Yes Atmospheric Pressure: 991.2mbar

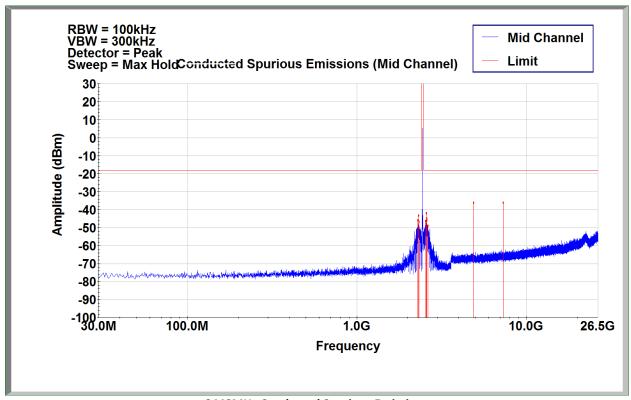
11.6 Test Data



Conducted Spurious Emissions (Band)

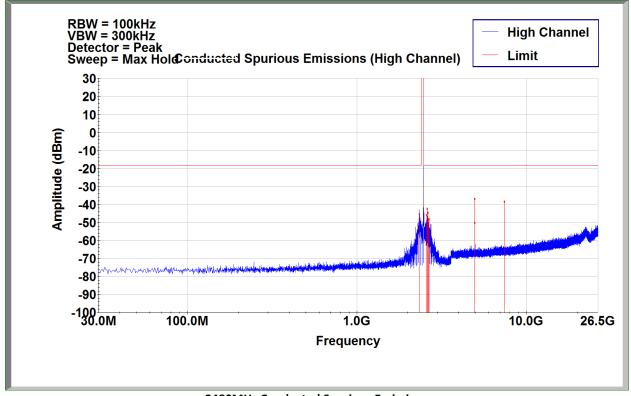


2402MHz Conducted Spurious Emissions



2440MHz Conducted Spurious Emissions

EMC Test Report Date: 2/14/2021



2480MHz Conducted Spurious Emissions

Product: GEN II Date: 2/14/2021

Page 53 of 54

12 Antenna Requirement

12.1 Test Limits

FCC Part 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §\$15.211, 15.213, 15.217, 15.219, 15.221, or \$15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

RSS-Gen Issue 5 § 6.8:

The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.

Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the licence-exempt apparatus.

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level. When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

User manuals for transmitters equipped with detachable antennas shall also contain the following notice in a conspicuous location:

This radio transmitter (identify the device by certification number) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types approved for use with the transmitter, indicating the maximum permissible antenna gain (in dBi).

12.2 Test Results

The device was found to be **compliant**. The device has an internal, permanently affixed antenna.

Report Number: 104426030LEX-003.1



Product: GEN II Date: 2/14/2021

13 Revision History

Revision	Date	Report Number	Prepared	Reviewed	Notes
Level			Ву	Ву	
0	1/12/2020	104426030LEX-003	BCT	BL	Original Issue
1	2/14/2021	104426030LEX-003.1	BCT	BL	Included radiated emissions data below 30MHz