RF Test Report

Project Number:	**4507635**	**Proposal Number:**	**9154 rev2**
Report Number:	**4507635EMC01**	**Revision Level:**	**1**
Client:	**Enovate Medical, LLC**		

Equipment Under Test:	**Medical Cart**
Host Model Name:	**Encore 1.5**
Host Model Number:	**ENC0-XXXXX**
Module Model:	**P0000457 External Bluetooth**
Module FCC ID:	**2AQ9D-P0000457**
Module IC:	**24335-P0000457**
Applicable Standards:	**FCC Part 15 Subpart C, § 15.247**
	RSS-247, Issue 2, February 2017
	RSS-GEN, Issue 5, February 2021, Amendment 2
	ANSI C63.10:2013

Report issued on:	**13 January 2022**
Test Result:	**Compliant**

FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01
This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the Federal Government.

Prepared by: Martin Taylor, RF/EMC Engineer

Reviewed by: David Schramm, Operations Manager

Remarks: This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

Table of Contents

1 SUMMARY OF TEST RESULTS 3

1.1 MODIFICATIONS REQUIRED FOR COMPLIANCE 3

2 GENERAL INFORMATION 4

2.1 CLIENT INFORMATION 4
2.2 TEST LABORATORY 4
2.3 GENERAL INFORMATION OF EUT 4
2.4 OPERATING MODES AND CONDITIONS 4
2.5 EUT CONNECTION BLOCK DIAGRAM 5
2.6 SYSTEM CONFIGURATIONS 5
2.7 CABLE LIST 5

3 FIELD STRENGTH OF SPURIOUS RADIATION 6

3.1 TEST RESULT 6
3.2 TEST METHOD 6
3.3 TEST SETUP 6
3.4 TEST SITE 7
3.5 TEST EQUIPMENT 7
3.6 TEST DATA 8

4 MEASUREMENT UNCERTAINTY 27

5 REVISION HISTORY 28

1 Summary of Test Results

Test Description	Test Specification		Test Result
Bandwidth	15.247(a)(2)	RSS-247 S5.2 (a) RSS-GEN S6.7	Compliant (1)
Output Power	15.247(b)(3)	RSS-247 S5.4 (d)	Compliant (1)
Power Spectral Density	15.247(e)	RSS-247 S5.2 (b)	Compliant (1)
Conducted Spurious Emissions / Band Edge	15.247(d)	RSS-247 S5.5	Compliant (1)
Field Strength of Spurious Radiation	15.247(d) 15.205, 15.209	RSS-247 S5.5 RSS-GEN S8.9, S8.10	Compliant
Emissions in Restricted Frequency Bands	15.205, 15.209	RSS-GEN S8.9, S8.10	Compliant (1)
Antenna Requirement	15.203	RSS-GEN S6.8	Compliant (2)

(1) See SGS North America Inc. Test Report Number 4347362EMC01 for conducted test results.
(2) The device uses an antenna external to the board containing the radio but within the end product which is assembled by the same manufacturer. Therefore, the installation of the antenna is under the control of the device manufacturer.

1.1 *Modifications Required for Compliance*

None

2 General Information

2.1 *Client Information*

Name:	Enovate Medical, LLC
Address:	1152 Park Avenue
City, State, Zip, Country:	Murfreesboro, TN 37129, USA

2.2 *Test Laboratory*

Name:	SGS North America, Inc.
Address:	620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country:	Suwanee, GA 30024, USA
Accrediting Body:	A2LA
Type of lab:	Testing Laboratory
Certificate Number:	3212.01
FCC Designation:	US1126
ISED Registration:	9984A
CAB Identifier:	US0186

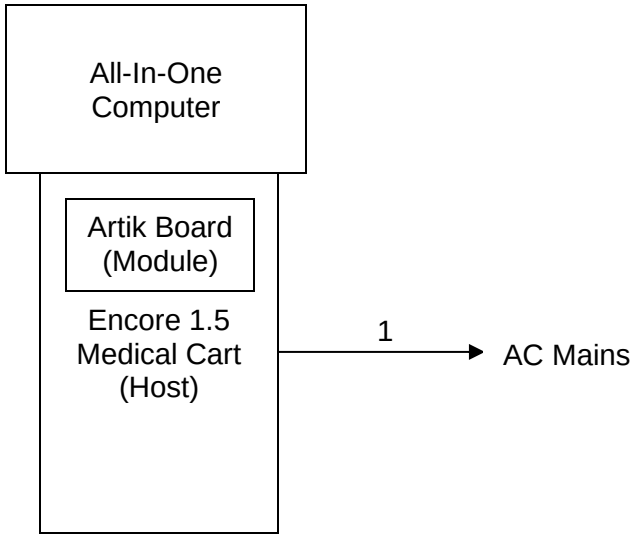
2.3 *General Information of EUT*

Type of Product:	Medical Cart
Host Model Name:	Encore 1.5
Host Model Number:	ENC0-XXXXX
Host Serial Number:	12345678
Module Model:	P0000457 External Bluetooth
Module FCC ID:	2AQ9D-P0000457
Module IC:	24335-P0000457
Frequency Range:	2402 – 2480 MHz
Data Modes:	Bluetooth Low Energy (GFSK)
Antenna:	Dipole Antenna (0.7dB)
Rated Voltage:	100-240Vac, 50-60Hz
Test Voltage:	120Vac, 60Hz
Sample Received Date:	14 November 2019
Dates of testing:	12 March to 29 April 2020

2.4 *Operating Modes and Conditions*

The EUT was programmed by the manufacturer to transmit on low, mid and high channels. Continuous traffic was generated using test commands controlled by software provided by the client.

2.5 *EUT Connection Block Diagram*



2.6 *System Configurations*

Manufacturer	Description	Model Number	Serial Number
Enovate Medical, LLC	Artik Board containing BLE Circuit (Module)	P0000457	Not labeled
Enovate Medical, LLC	Encore 1.5 Medical Cart (Host)	ENC0-XXXXX	12345678
Enovate Medical, LLC	All-In-One Computer	HC20-AC-22R6	311744400826

2.7 *Cable List*

Cable reference	Port Name	Start	End	Cable Length (m)	Ferrite installed?	Shielded?
1	AC Power	Encore 1.5 (Host)	AC Mains	1.4	No	No

3 Field Strength of Spurious Radiation

3.1 *Test Result*

Test Description	Test Specification		Test Result
Radiated Spurious Emissions	15.247(d) 15.205, 15.209	RSS-247 S5.5 RSS-GEN S8.9, S8.10	Compliant

3.2 *Test Method*

The radiated measurement methods defined in ANSI C63.10 and KDB 558074 D01 15.247 Meas Guidance v05r02 were used.

Lowest, middle and highest channels were investigated – the device was commanded to continuously transmit on channels 0, 19 and 39.

Test distance:

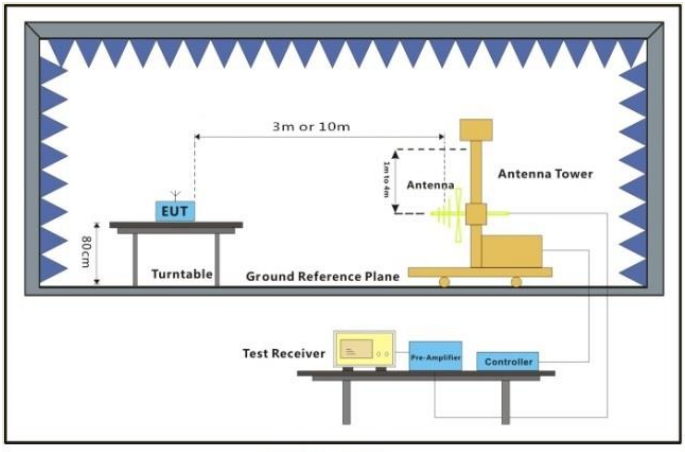
9k to 30 MHz – Near field prescan to determine if there were any emissions
30 to 1000 MHz - The EUT to measurement antenna distance was 3 meters
1 to 18 GHz - The EUT to measurement antenna distance was 3 meters
18 to 26 GHz - The EUT to measurement antenna distance was 3 meters

Limits within restricted bands of operation:

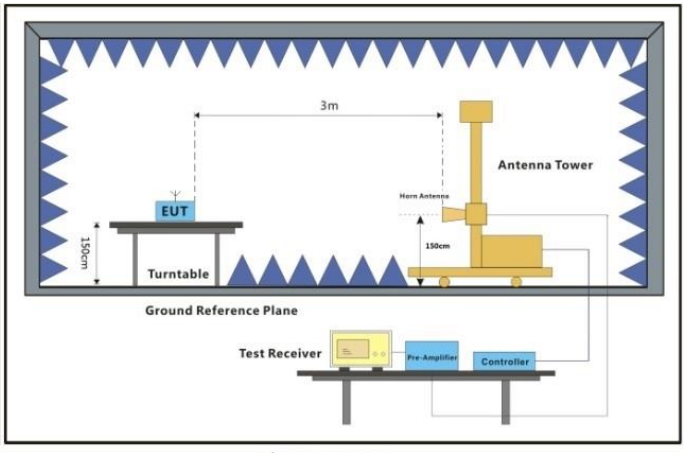
Frequency	Limits(1)		Peak Limits dBuV/m
	Microvolts/m	dBuV/m	
30 - 88 MHz	100	40 (2)	--
88 - 216 MHz	150	43.5 (2)	--
216 - 960 MHz	200	46 (2)	--
960 - 1000 MHz	500	54 (2)	--
1 - 40 GHz	500	54 (3)	74

(1) These limits are applicable to emissions outside of the intentional transmit frequency band.
(2) Quasi-peak limit
(3) Average limit

3.3 *Test Setup*



30MHz-1GHz



Above 1GHz

3.4 *Test Site*

Absorber Lined Shielded Enclosure (ALSE), Suwanee, GA

Environmental Conditions	30-1000MHz	1-18GHz	18-26GHz
Enclosure:	3m Chamber	10m Chamber	10m Chamber
Temperature:	22.1 °C	23.8 °C	23.2 °C
Relative Humidity:	46.8 %	47.4 %	50.0 %
Atmospheric Pressure:	97.05 kPa	98.6 kPa	98.7 kPa

3.5 *Test Equipment*

30-1000MHz

Test End Date: 29-Apr-2020 Tester: ZH

Equipment	Model	Manufacturer	Asset Number	Cal Due Date
ANTENNA, BILOG	JB6	SUNOL	B079689	30-Oct-2020
RF Cable Nm to Nm, 0.01-18GHz	90-195-354	TELEDYNE STORM MICROWAVE	20120	2-Mar-2021
RF CABLE	NFS-290-78.7-NFS	FLORIDA RF LABS	B095019	6-Sep-2020
RF Cable Nm to Nm, 0.01-18GHz	90-195-118	TELEDYNE STORM MICROWAVE	20126	2-Mar-2021
RF CABLE	SUCOFLEX 100	Huber & Suhner	B108523	5-Sep-2020
LOW NOISE AMPLIFIER	ZKL-2+	Mini-Circuits	B079800	16-Sep-2020
EMI TEST RECEIVER	ESW44	ROHDE & SCHWARZ	101585	3-Dec-2020

1-18GHz

Test End Date: 12-Mar-2020 Tester: MT

Equipment	Model	Manufacturer	Asset Number	Cal Due Date
ANTENNA, DRG HORN (MEDIUM)	3117	ETS Lindgren	B079691	10-Aug-2020
RF Cable Nm to Nm, 0.01-18GHz	90-195-276	TELEDYNE STORM MICROWAVE	20113	2-Mar-2021
RF CABLE	104PE	HUBER & SUHNER	B079793	5-Sep-2020
LOW NOISE AMPLIFIER	TS-PR18	ROHDE & SCHWARZ	B094463	3-Dec-2020
FILTER, HIGH PASS, >2800MHz	HPM50111	MICRO-TRONICS	B085747	7-Sep-2020
EMI TEST RECEIVER	ESW44	ROHDE & SCHWARZ	101585	3-Dec-2020

18-26GHz

Test End Date: 13-Mar-2020 Tester: MT

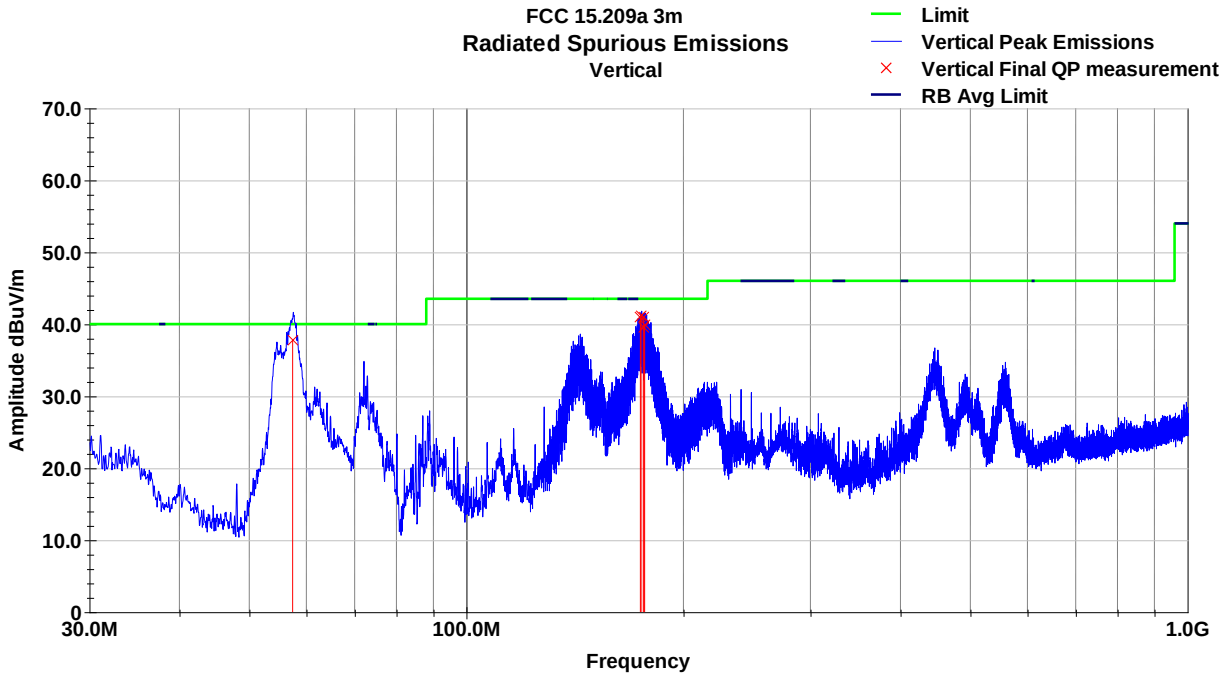
Equipment	Model	Manufacturer	Asset Number	Cal Due Date
ANTENNA, HORN (SMALL)	LB-180400-20-C-KF	A-INFO	15007	6-Apr-2022
2.92mm male to2.92mm male RF Cable	HULL140A-29P-29P-60	HASCO COMPONENTS	18033	30-Mar-2021
RF CABLE SMA	HULL150A-29P-29P-36	HASCO COMPONENTS	19102	30-Mar-2021
RF CABLE	SF102	Huber & Suhner	B079824	17-Jul-2020
LOW NOISE AMPLIFIER	NSP1840-HG	MITEQ	B087572	7-Oct-2020
EMI TEST RECEIVER	ESW44	ROHDE & SCHWARZ	101585	3-Dec-2020

Note: The equipment calibration period is 1 year except for the antennas which have a 2-year period.

3.6 *Test Data*

No emissions were detected in the range 9kHz to 30MHz.

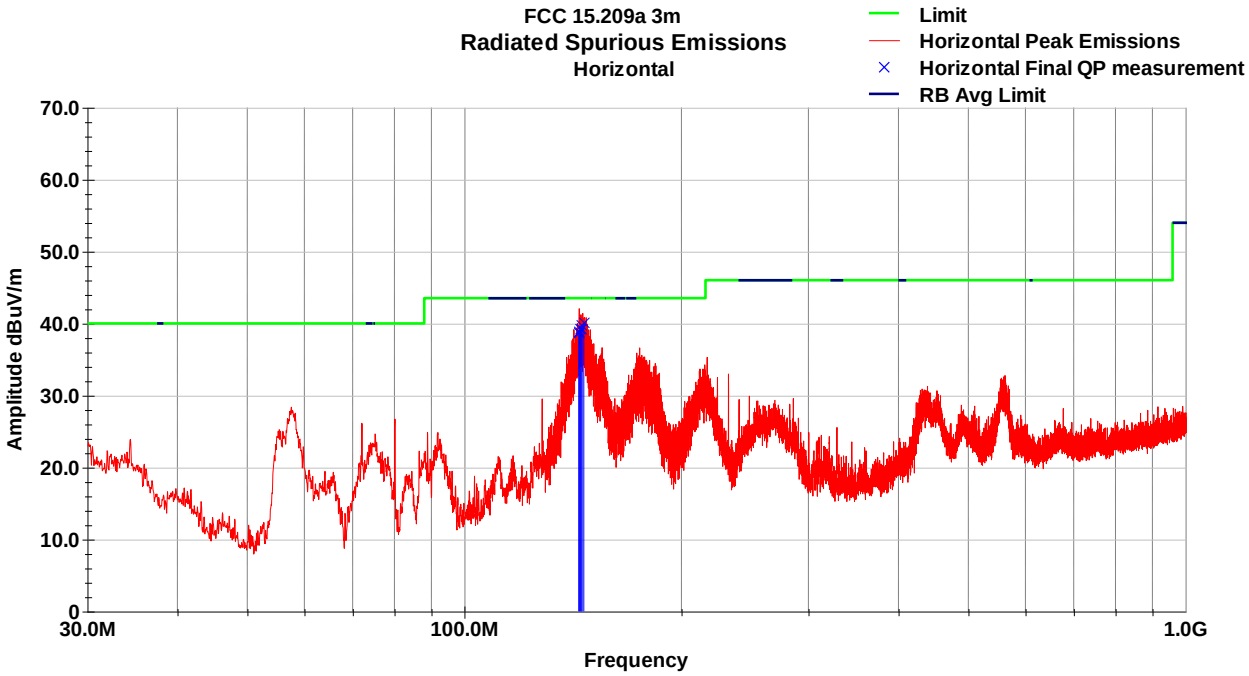
BLE Channel 0
Vertical Plot (30-1000MHz)



BLE Channel 0
Vertical Quasi-Peak Data (30-1000MHz)

Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
57.43	61.1	V	250.0	137.0	7.5	0.7	31.4	37.8	40.0	-2.2
174.37	59.1	V	16.0	194.0	11.8	1.3	31.2	40.9	43.5	-2.6
174.75	59.3	V	0.0	175.0	11.7	1.3	31.2	41.1	43.5	-2.4
175.97	59.3	V	355.0	199.0	11.6	1.3	31.1	41.1	43.5	-2.5
176.40	57.9	V	15.0	210.0	11.6	1.3	31.1	39.6	43.5	-3.9
176.74	58.3	V	340.0	175.0	11.5	1.3	31.1	39.9	43.5	-3.6

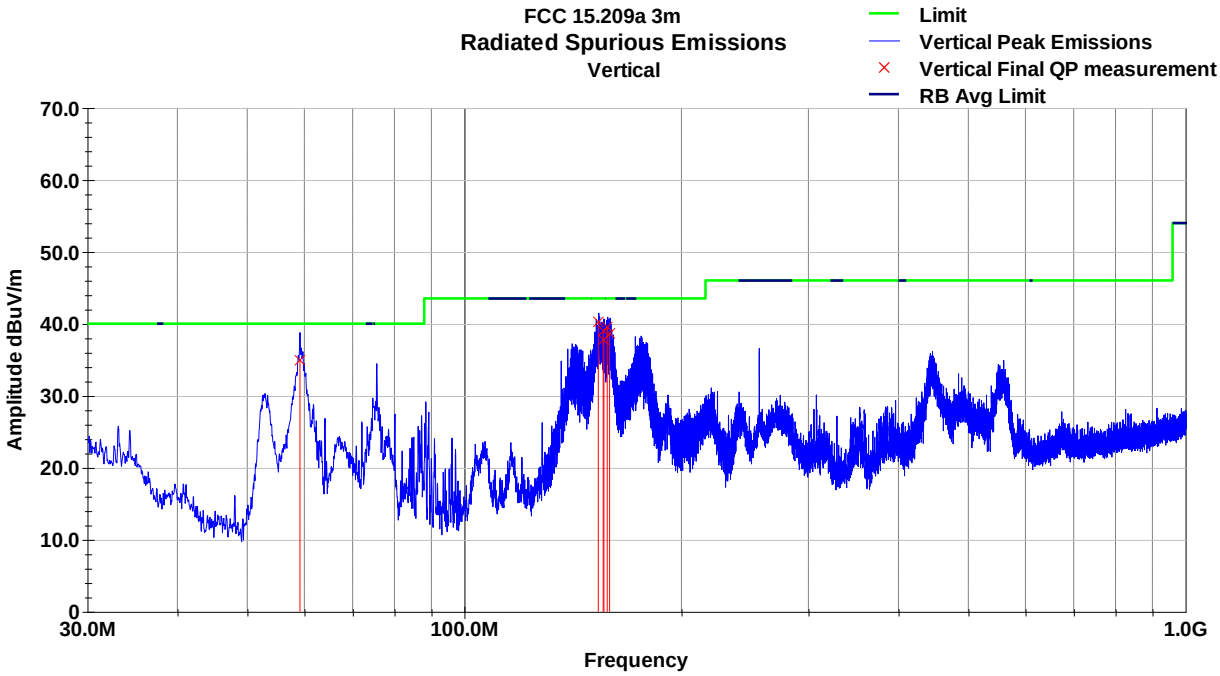
BLE Channel 0
Horizontal Plot (30-1000MHz)



BLE Channel 0
Horizontal Quasi-Peak Data (30-1000MHz)

Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
144.07	55.9	H	267.0	155.0	13.0	1.1	31.2	38.8	43.5	-4.7
144.48	55.7	H	270.0	165.0	13.0	1.1	31.2	38.7	43.5	-4.9
144.89	56.3	H	294.0	169.0	13.0	1.1	31.2	39.2	43.5	-4.3
145.27	56.8	H	274.0	140.0	13.0	1.1	31.2	39.7	43.5	-3.8
145.70	56.2	H	82.0	159.0	13.0	1.1	31.2	39.2	43.5	-4.4
146.47	57.1	H	263.0	155.0	13.0	1.1	31.2	40.0	43.5	-3.5

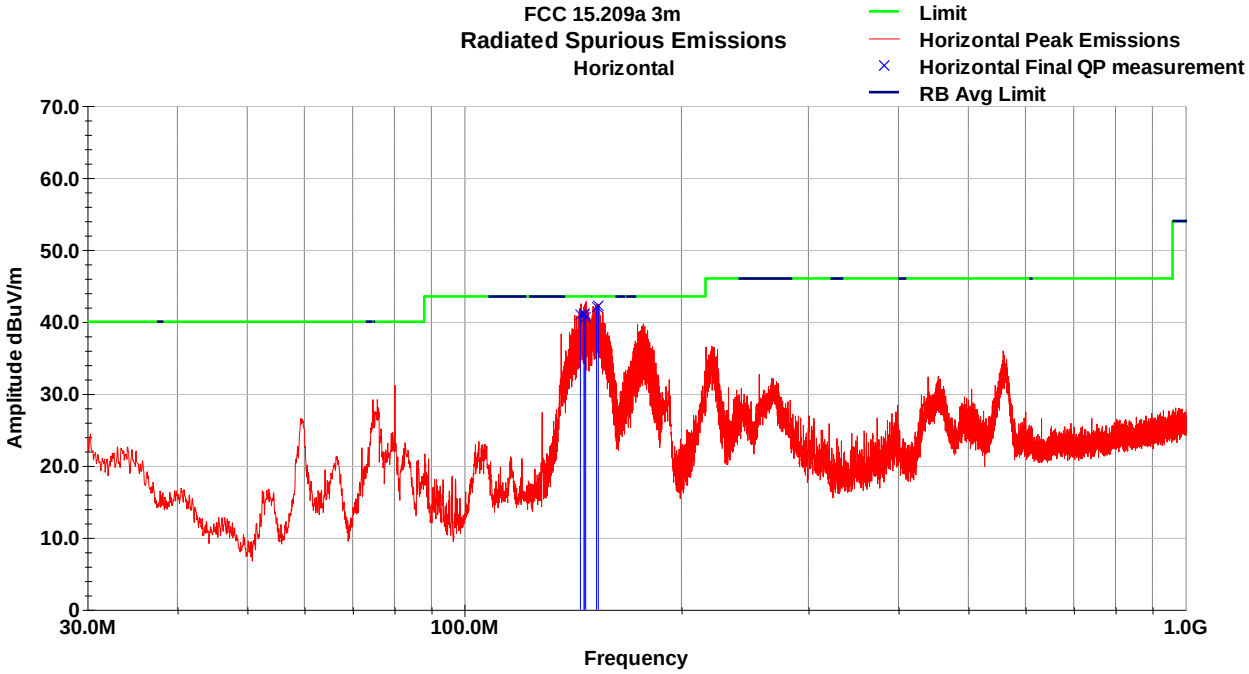
BLE Channel 19
Vertical Plot (30-1000MHz)



BLE Channel 19
Vertical Quasi-Peak Data (30-1000MHz)

Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
59.17	58.2	V	213.0	100.0	7.5	0.7	31.4	34.9	40.0	-5.1
153.37	57.2	V	359.0	213.0	13.1	1.2	31.2	40.3	43.5	-3.2
155.79	56.0	V	189.0	237.0	13.1	1.2	31.2	39.1	43.5	-4.5
156.18	54.7	V	135.0	203.0	13.1	1.2	31.2	37.8	43.5	-5.7
157.83	56.5	V	186.0	206.0	13.1	1.2	31.2	39.6	43.5	-3.9
159.04	55.6	V	175.0	185.0	13.1	1.2	31.2	38.7	43.5	-4.8

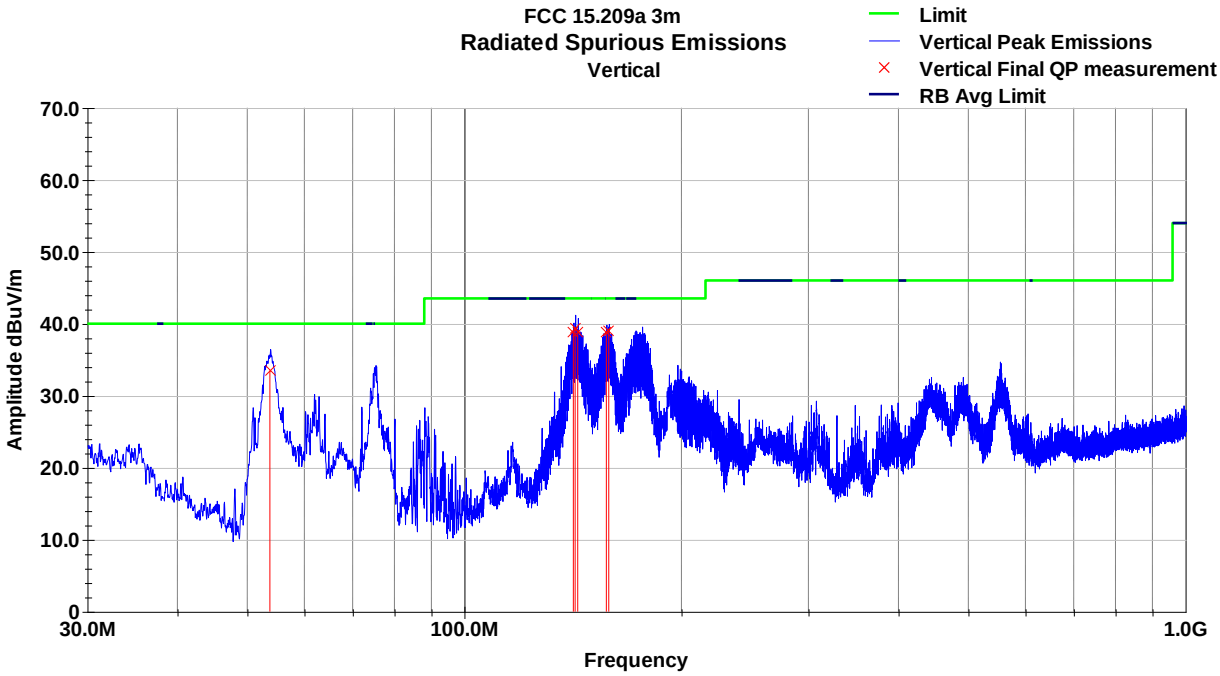
BLE Channel 19
Horizontal Plot (30-1000MHz)



BLE Channel 19
Horizontal Quasi-Peak Data (30-1000MHz)

Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
144.89	58.1	H	98.0	137.0	13.0	1.1	31.2	41.1	43.5	-2.5
146.56	58.3	H	95.0	159.0	13.0	1.1	31.2	41.2	43.5	-2.3
146.91	58.0	H	105.0	175.0	13.0	1.1	31.2	40.9	43.5	-2.6
147.33	57.7	H	116.0	119.0	13.0	1.1	31.2	40.6	43.5	-2.9
152.55	59.0	H	83.0	153.0	13.1	1.2	31.2	42.0	43.5	-1.5
153.38	59.0	H	85.0	160.0	13.1	1.2	31.2	42.1	43.5	-1.4

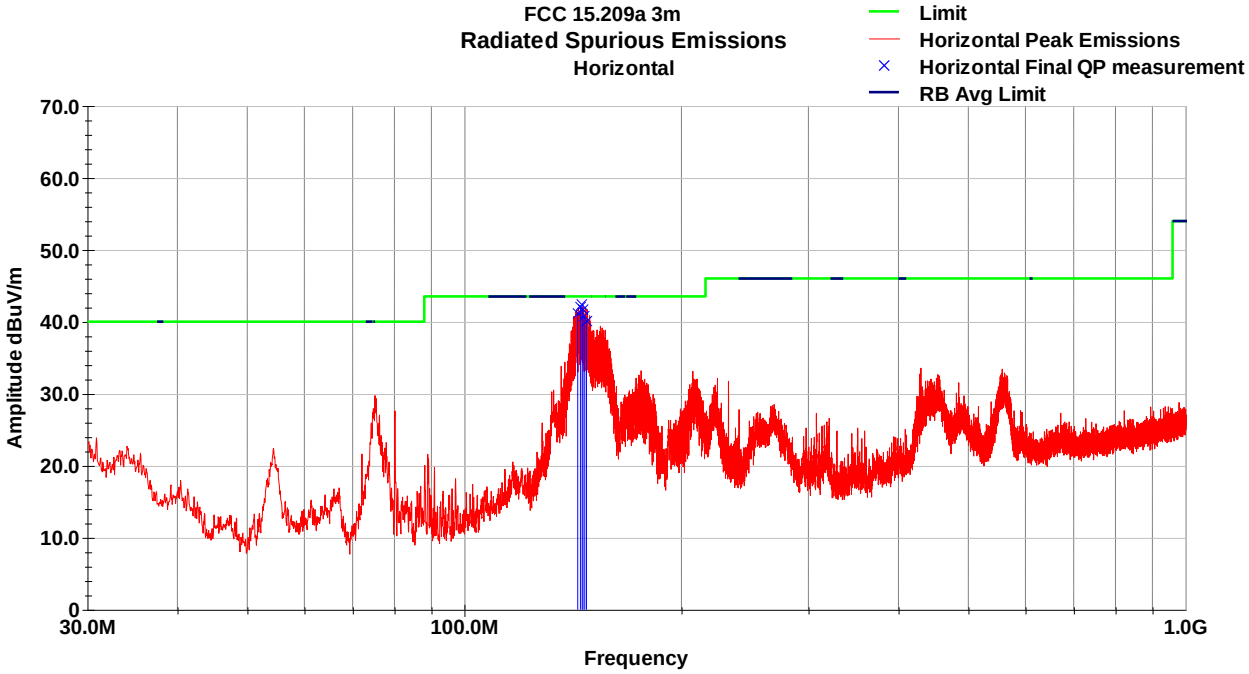
BLE Channel 39
Vertical Plot (30-1000MHz)



BLE Channel 39
Vertical Quasi-Peak Data (30-1000MHz)

Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
53.74	56.3	V	308.0	100.0	8.0	0.7	31.5	33.5	40.0	-6.5
141.63	55.9	V	192.0	247.0	13.0	1.1	31.2	38.8	43.5	-4.7
142.45	56.5	V	180.0	247.0	13.0	1.1	31.2	39.4	43.5	-4.1
143.67	55.9	V	155.0	205.0	13.0	1.1	31.2	38.8	43.5	-4.7
157.39	55.8	V	357.0	217.0	13.1	1.2	31.2	38.9	43.5	-4.6
158.60	55.9	V	352.0	214.0	13.1	1.2	31.2	39.0	43.5	-4.5

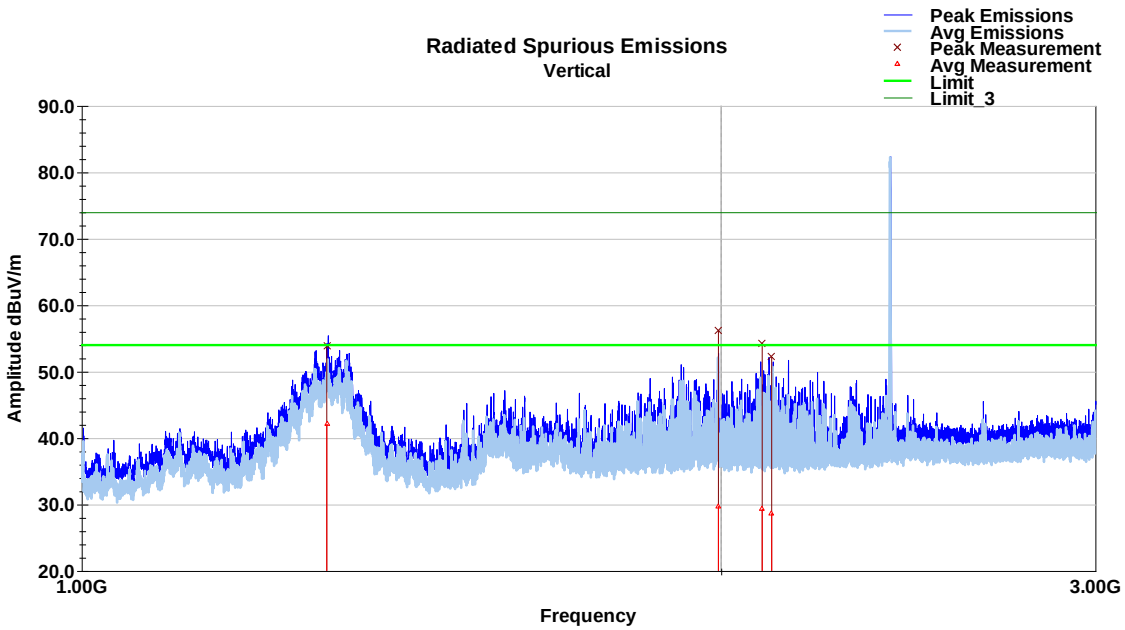
BLE Channel 39
Horizontal Plot (30-1000MHz)



BLE Channel 39
Horizontal Quasi-Peak Data (30-1000MHz)

Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
143.67	58.2	H	281.0	138.0	13.0	1.1	31.2	41.1	43.5	-2.4
144.88	59.0	H	290.0	141.0	13.0	1.1	31.2	42.0	43.5	-1.5
145.67	59.4	H	283.0	153.0	13.0	1.1	31.2	42.3	43.5	-1.2
146.10	58.7	H	285.0	163.0	13.0	1.1	31.2	41.7	43.5	-1.8
146.91	57.8	H	101.0	162.0	13.0	1.1	31.2	40.8	43.5	-2.7
147.72	57.1	H	294.0	181.0	13.0	1.1	31.2	40.1	43.5	-3.4

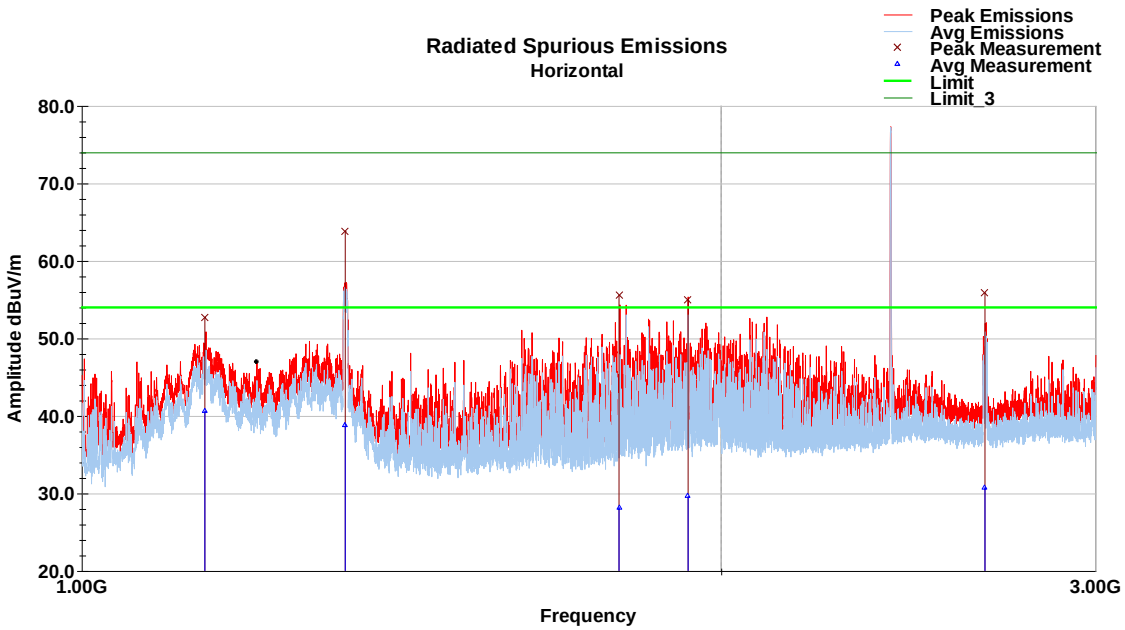
BLE Channel 0
Vertical Plot (1-3GHz)



BLE Channel 0
Vertical Average Data (1-3GHz)

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Final Avg dBuV/m	Limit (dBuV/m)	Margin (dB)
1304.40	45.2	V	182.0	175.0	30.0	1.8	35.0	42.1	54.0	-11.9
1994.12	30.5	V	181.0	249.0	31.8	2.3	34.9	29.7	54.0	-24.2
2091.12	30.4	V	161.0	175.0	31.4	2.3	34.8	29.3	54.0	-24.7
2112.68	29.8	V	164.0	250.0	31.4	2.4	34.9	28.7	54.0	-25.3

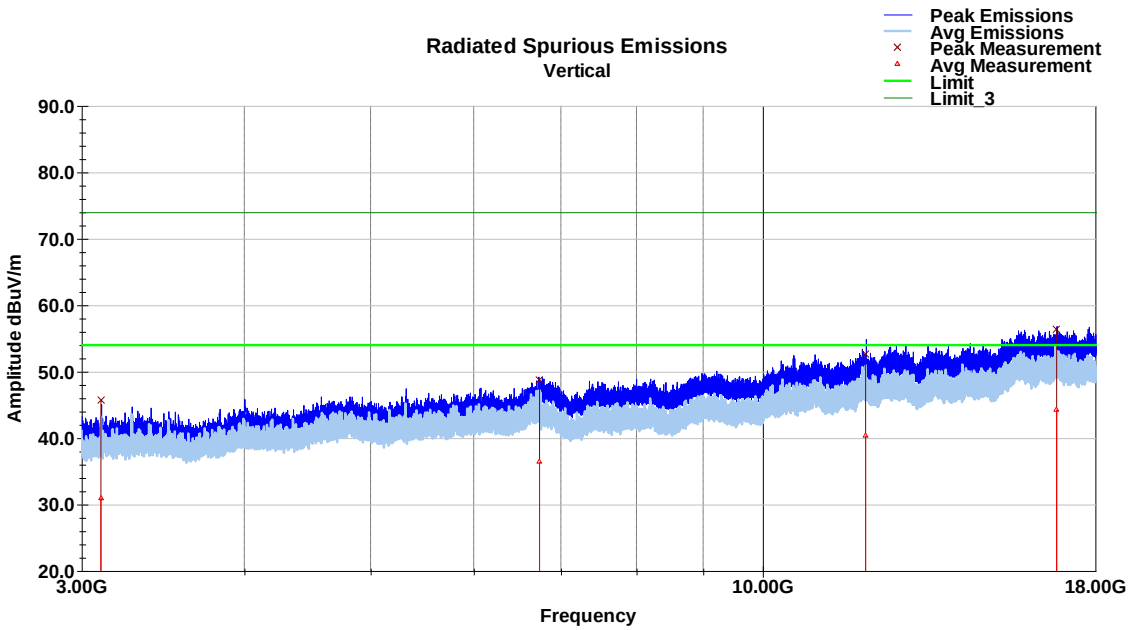
BLE Channel 0
Horizontal Plot (1-3GHz)



BLE Channel 0
Horizontal Average Data (1-3GHz)

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Avg Value dBuV/m	Limit (dBuV/m)	Margin (dB)
1142.92	45.5	H	188.0	229.0	28.4	1.7	35.0	40.7	54.0	-13.3
1330.76	42.1	H	231.0	155.0	29.9	1.8	35.0	38.9	54.0	-15.1
1790.56	30.4	H	240.0	172.0	30.5	2.2	34.8	28.2	54.0	-25.8
1929.84	30.6	H	150.0	209.0	31.7	2.3	34.9	29.6	54.0	-24.4
2662.00	30.6	H	233.0	249.0	32.5	2.7	35.0	30.8	54.0	-23.2

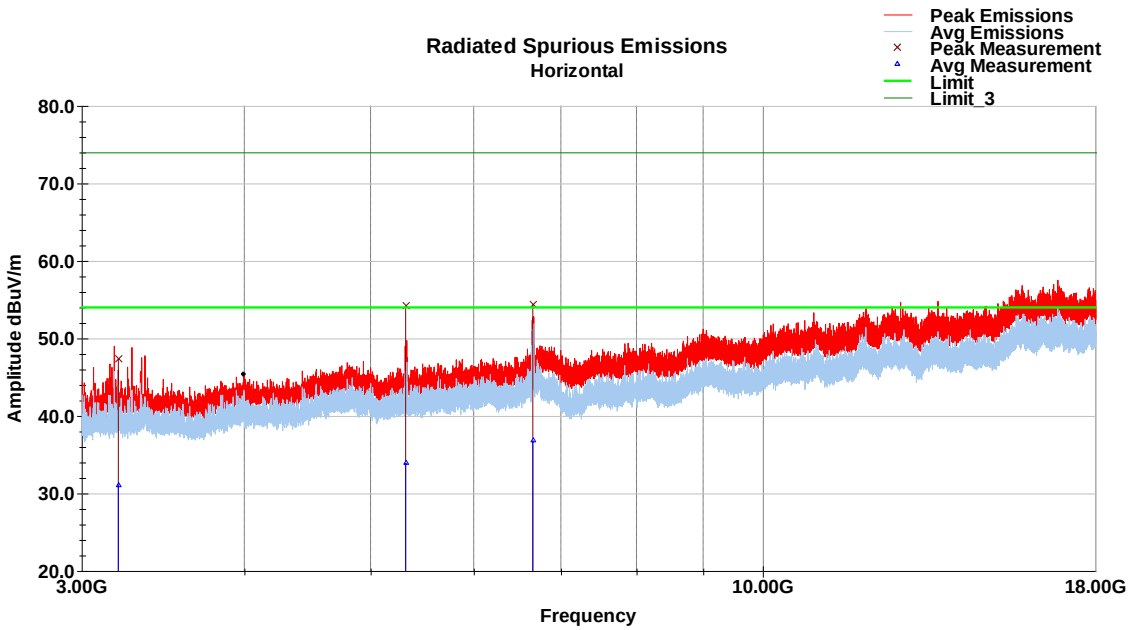
BLE Channel 0
Vertical Plot (3-18GHz)



BLE Channel 0
Vertical Average Data (3-18GHz)

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Final Avg dBuV/m	Limit (dBuV/m)	Margin (dB)
3104.20	29.9	V	152.0	189.0	33.1	2.9	34.9	31.0	54.0	-23.0
6740.20	30.7	V	53.0	181.0	36.3	4.5	35.0	36.4	54.0	-17.6
11995.16	31.7	V	104.0	250.0	38.7	5.9	35.9	40.3	54.0	-13.7
16812.48	32.4	V	40.0	250.0	41.8	7.0	36.9	44.3	54.0	-9.7

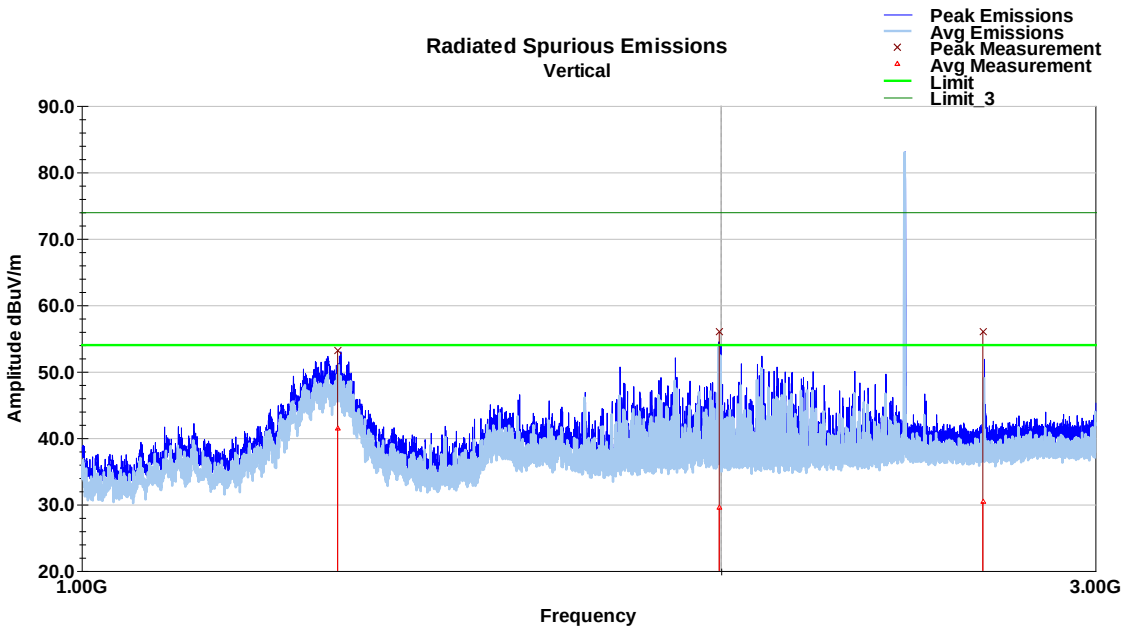
BLE Channel 0
Horizontal Plot (3-18GHz)



BLE Channel 0
Horizontal Average Data (3-18GHz)

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Avg Value dBuV/m	Limit (dBuV/m)	Margin (dB)
3201.04	29.7	H	124.0	243.0	33.3	3.0	34.8	31.1	54.0	-22.8
5320.24	30.5	H	114.0	131.0	34.4	3.9	34.9	33.9	54.0	-20.0
6661.00	31.2	H	216.0	156.0	36.1	4.5	35.0	36.8	54.0	-17.2

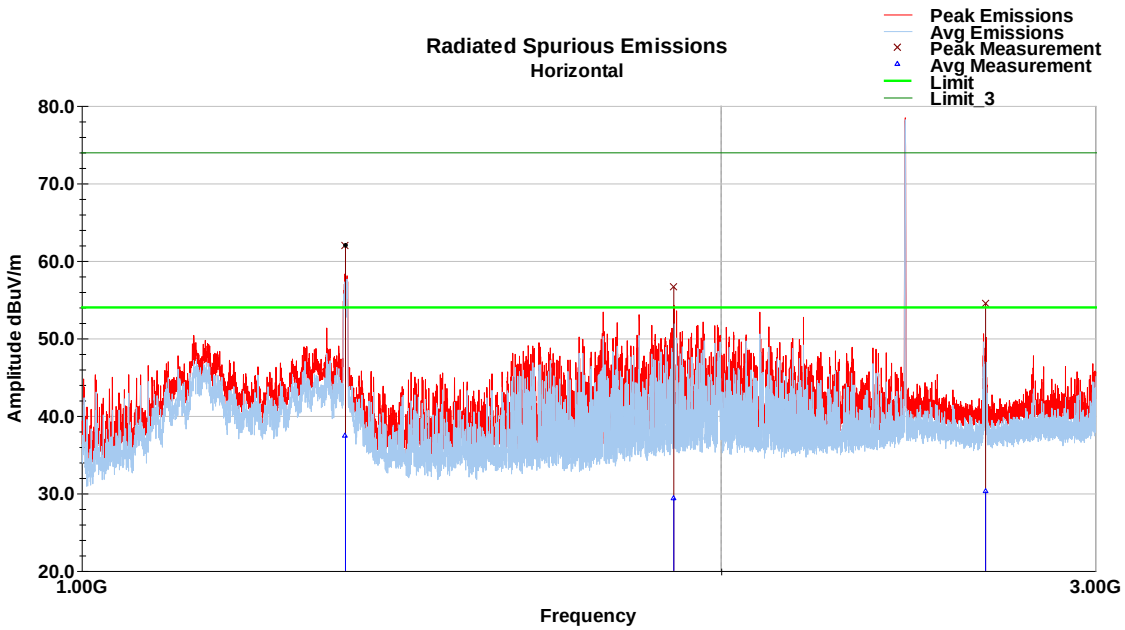
BLE Channel 19
Vertical Plot (1-3GHz)



BLE Channel 19
Vertical Average Data (1-3GHz)

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Final Avg dBuV/m	Limit (dBuV/m)	Margin (dB)
1319.80	44.7	V	184.0	192.0	30.0	1.8	35.0	41.5	54.0	-12.5
1995.92	30.3	V	183.0	239.0	31.8	2.3	34.9	29.5	54.0	-24.5
2656.04	30.2	V	137.0	156.0	32.5	2.7	35.0	30.4	54.0	-23.6

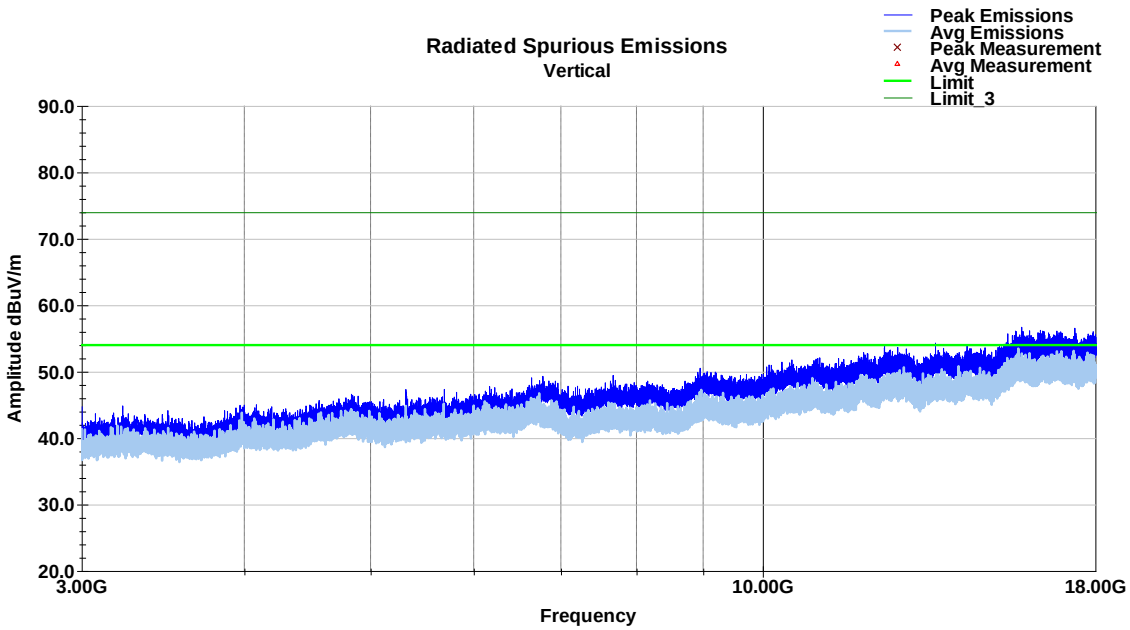
BLE Channel 19
Horizontal Plot (1-3GHz)



BLE Channel 19
Horizontal Average Data (1-3GHz)

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Avg Value dBuV/m	Limit (dBuV/m)	Margin (dB)
1331.12	40.7	H	129.0	100.0	29.9	1.8	35.0	37.4	54.0	-16.5
1899.96	30.7	H	244.0	215.0	31.3	2.2	34.8	29.4	54.0	-24.6
2663.96	30.0	H	146.0	241.0	32.5	2.7	35.0	30.2	54.0	-23.7

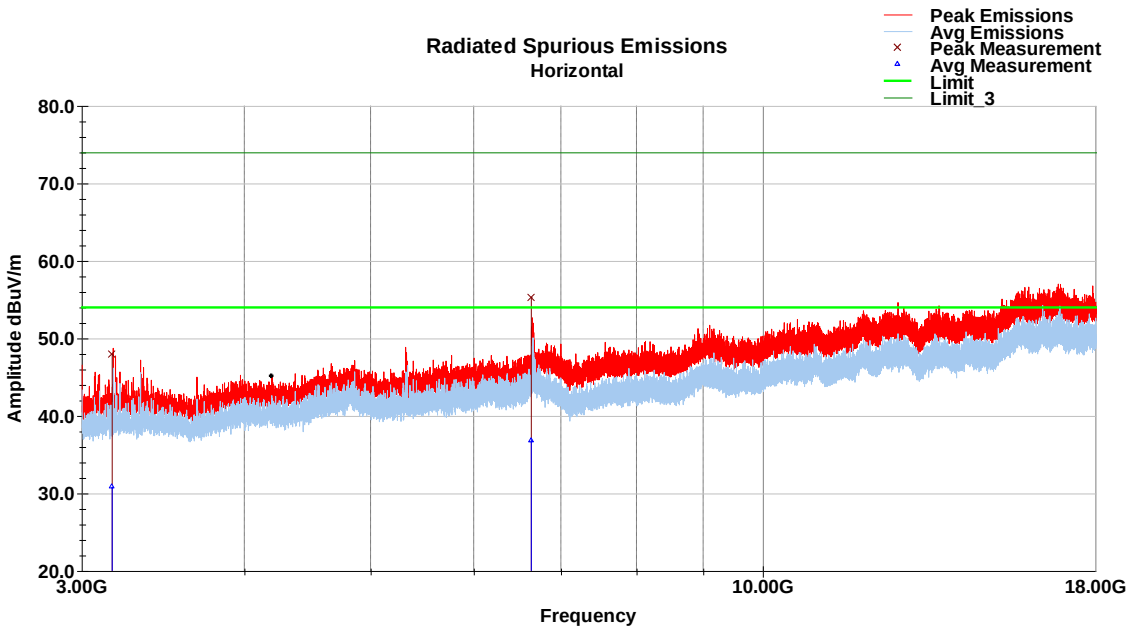
BLE Channel 19
Vertical Plot (3-18GHz)



BLE Channel 19
Vertical Average Data (3-18GHz)

Note – No spurious emissions observed.

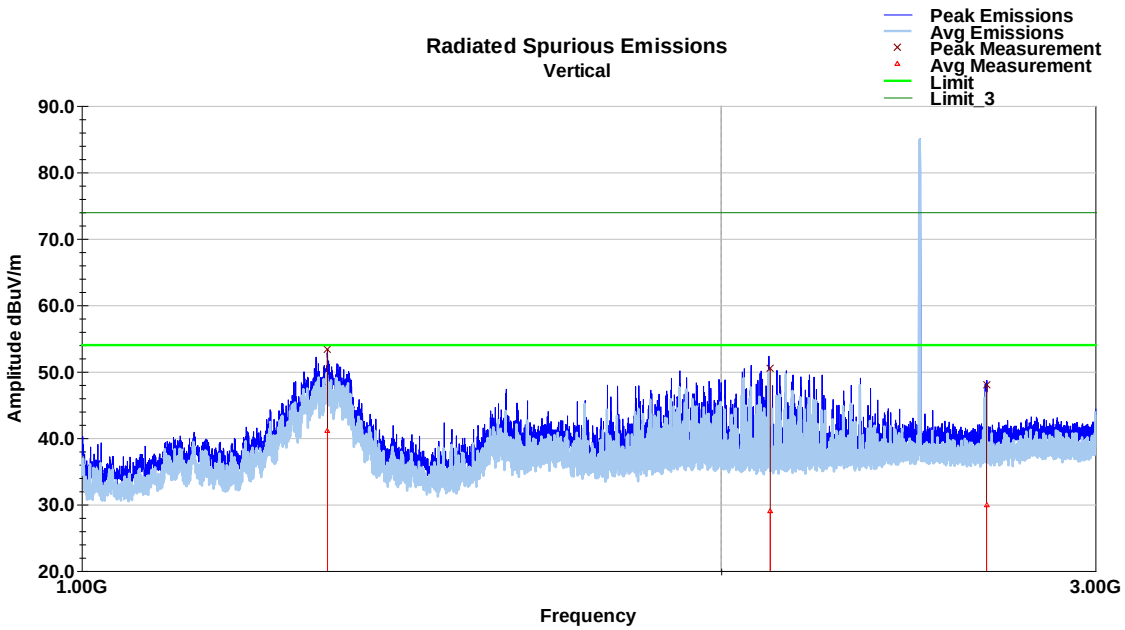
BLE Channel 19
Horizontal Plot (3-18GHz)



BLE Channel 19
Horizontal Average Data (3-18GHz)

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Avg Value dBuV/m	Limit (dBuV/m)	Margin (dB)
3166.76	29.6	H	217.0	248.0	33.1	2.9	34.8	30.9	54.0	-23.1
6643.08	31.4	H	224.0	241.0	36.1	4.5	35.0	36.9	54.0	-17.1

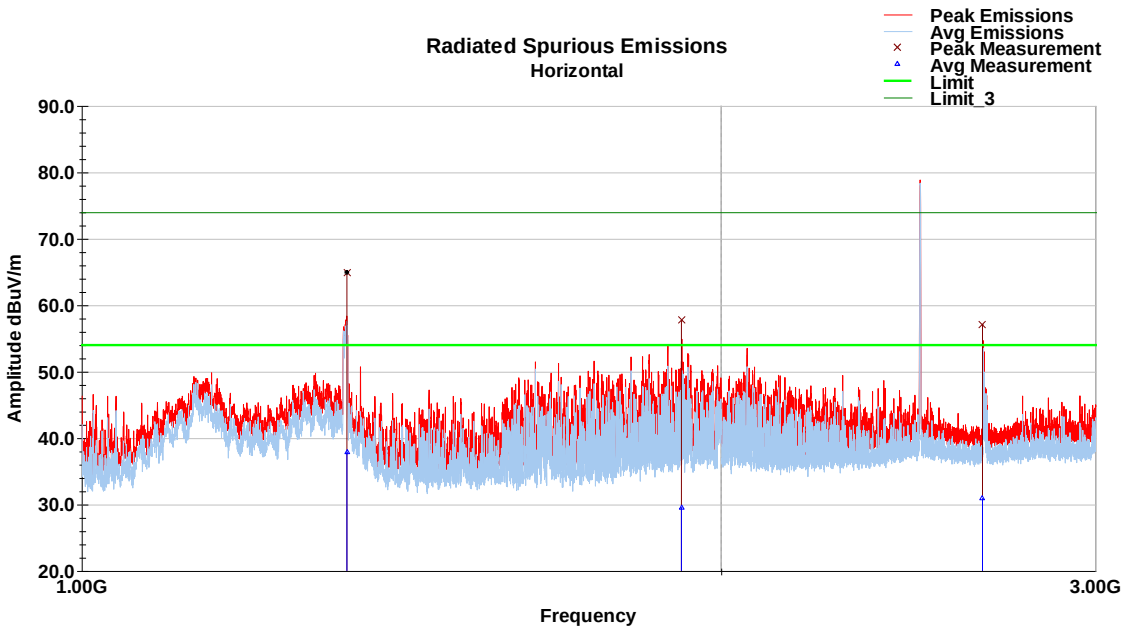
BLE Channel 39
Vertical Plot (1-3GHz)



BLE Channel 39
Vertical Average Data (1-3GHz)

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Final Avg dBuV/m	Limit (dBuV/m)	Margin (dB)
1305.48	44.3	V	187.0	250.0	30.0	1.8	35.0	41.2	54.0	-12.8
2109.48	30.2	V	170.0	250.0	31.4	2.4	34.9	29.1	54.0	-24.9
2666.64	29.7	V	195.0	250.0	32.5	2.7	35.0	29.9	54.0	-24.1

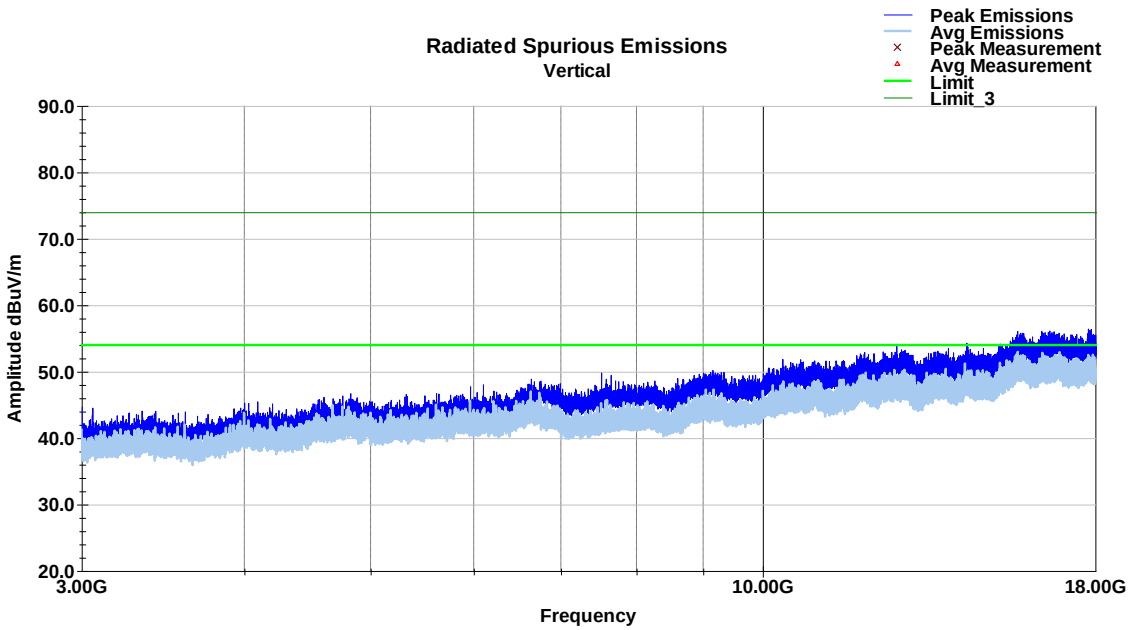
BLE Channel 39
Horizontal Plot (1-3GHz)



BLE Channel 39
Horizontal Average Data (1-3GHz)

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Avg Value dBuV/m	Limit (dBuV/m)	Margin (dB)
1333.20	41.1	H	232.0	158.0	29.9	1.8	35.0	37.9	54.0	-16.1
1915.80	30.7	H	239.0	148.0	31.5	2.2	34.8	29.6	54.0	-24.4
2654.88	30.7	H	237.0	248.0	32.5	2.7	35.0	30.9	54.0	-23.0

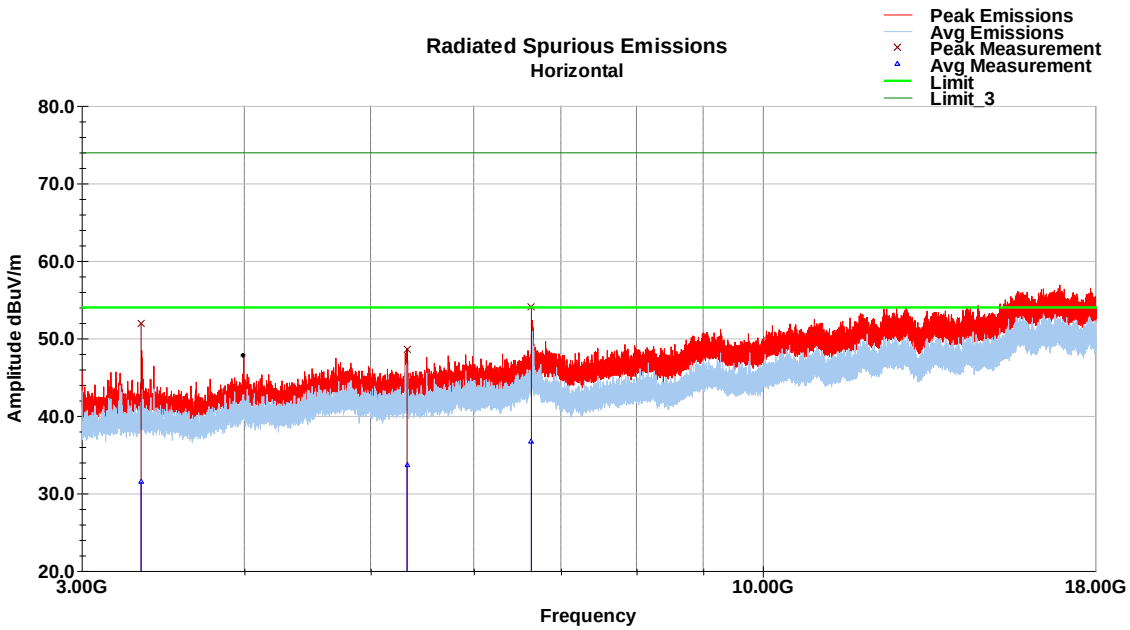
BLE Channel 39
Vertical Plot (3-18GHz)



BLE Channel 39
Vertical Average Data (3-18GHz)

Note – No spurious emissions observed.

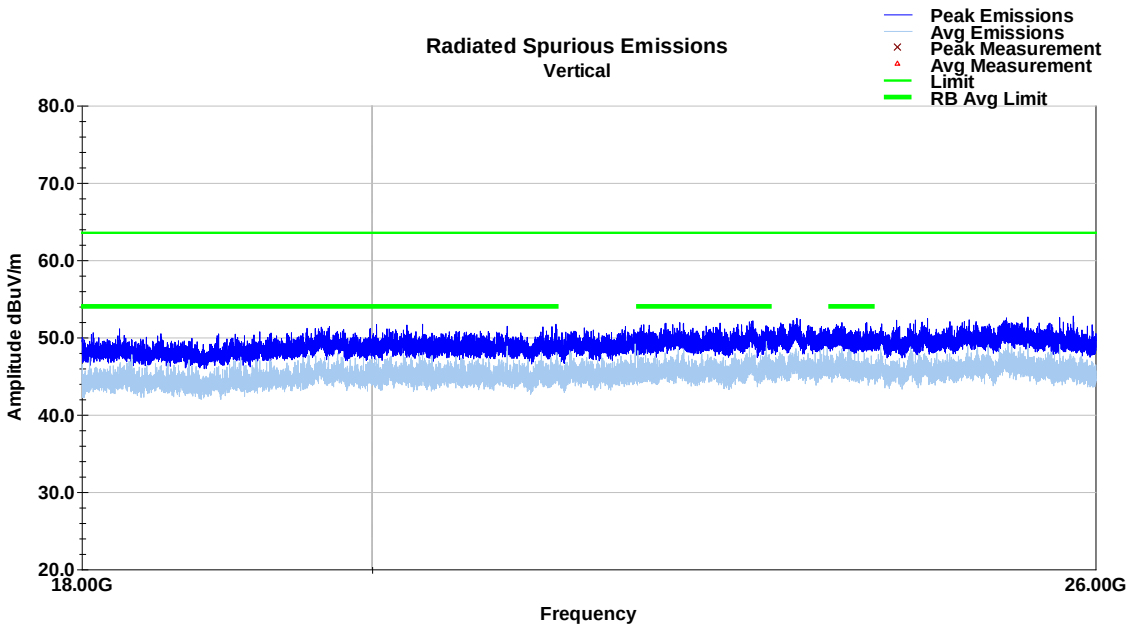
BLE Channel 39
Horizontal Plot (3-18GHz)



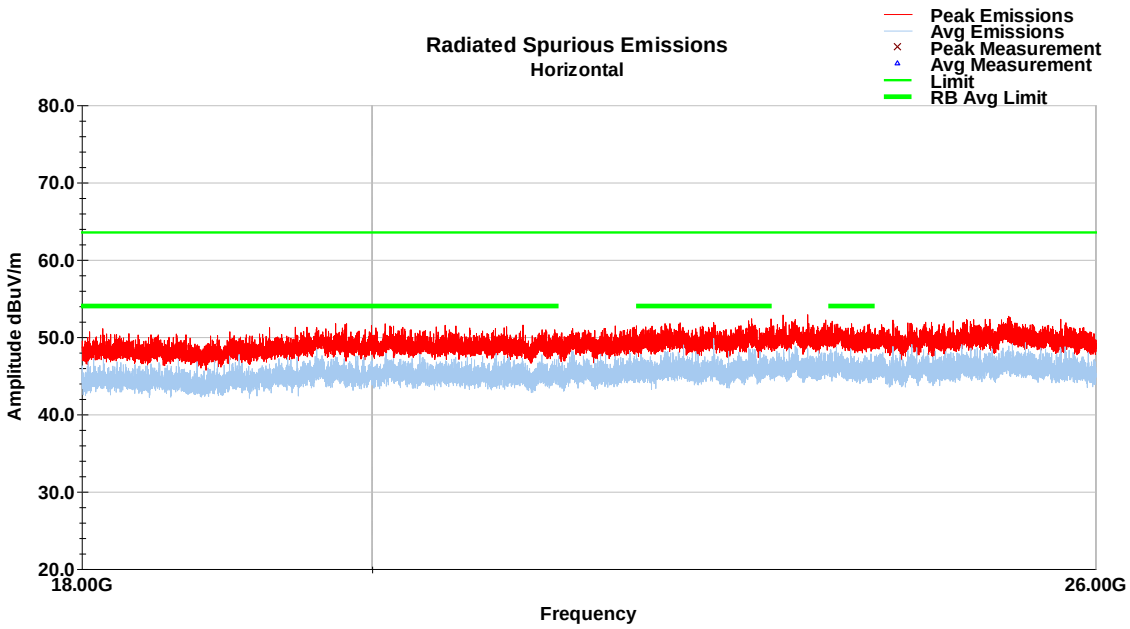
BLE Channel 39
Horizontal Average Data (3-18GHz)

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Avg Value dBuV/m	Limit (dBuV/m)	Margin (dB)
3332.80	30.3	H	168.0	135.0	32.9	3.0	34.7	31.5	54.0	-22.5
5332.90	30.4	H	157.0	156.0	34.4	3.9	34.9	33.7	54.0	-20.2
6643.80	31.2	H	215.0	189.0	36.1	4.5	35.0	36.7	54.0	-17.3

BLE Channels 0, 19, 39 (all similar plots)
Vertical Plot (18-26GHz)



BLE Channels 0, 19, 39 (all similar plots)
Horizontal Plot (18-26GHz)



4 Measurement Uncertainty

The measurement uncertainty figures are calculated in accordance with TR 100 028-1 [2] and correspond to an expansion factor (coverage factor) k = 2 (which provides confidence levels of 95.45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

	Expanded Uncertainty for Normal k factor equal to 2	
Parameter	Required	Laboratory Actual
Radio Frequency	±1 x 10-5	±9.8 x 10-8
total RF power, conducted	±1.5 dB	±1.2 dB
RF power density, conducted	±3 dB	±0.7 dB
spurious emissions, conducted	±3 dB	±2.1 dB
all emissions, radiated	±6 dB	±4.8 dB
temperature	±1°C	±0.5°C
humidity	±5 %	±3.5%
DC and low frequency voltages	±3 %	±0.4%
Conducted disturbance at mains port using AMN	± 3.4 dB	± 2.5 dB

5 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	23 December 2021
1	- Added FCC Designation, ISED Registration and CAB Identifier in section 2.2 - Added test setup diagrams in new section 3.3	13 January 2022