

RF Test Report

Project Number: 5051671**Offer Number:** SUW-202210003613**Report Number:** 5051671EMC02**Revision Level:** 2**Client:** Aegex Technologies, LLC**Equipment Under Test:** Tablet**Model Name:** Aegex100M**Model Number:** 100M**Contains FCC ID:** 2AGVY-100MWBXX01**Contains IC ID:** 21074-100MWBXX01**Applicable Standards:** ANSI C63.10: 2013 (FCC Part 15 Subpart C, § 15.247)**RSS-247, Issue 3****RSS-GEN Issue 5****Report issued on:** 23 September 2024**Test Result:** Compliant

FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER: 3212.01

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1 Summary of Test Results

Test Description	Test Specification		Test Result
Bandwidth	15.247(a)(2)	RSS-247 S5.2 (a) RSS-GEN S6.6	N/A ¹
Peak Output Power	15.247(b)(3)	RSS-247 S5.4 (d)	N/A ¹
Power Spectral Density	15.247(e)	RSS-247 S5.2 (b)	N/A ¹
Conducted Spurious Emissions / Band Edge	15.247(d)	RSS-247 S5.5	N/A ¹
Field Strength of Spurious Radiation	15.247(d), 15.209	RSS-247 S5.5	Compliant
Emissions in Restricted Frequency Bands	15.205, 15.209	RSS-GEN S8.9, S8.10	N/A ¹
Antenna Requirement	15.203	RSS-GEN S8.3	Compliant
AC Powerline Conducted Emissions	15.107, 15.207	RSS-GEN S8.8	Compliant ²

- 1) Testing was limited to radiated spurious emissions to ensure continued compliance of the certified modules when integrated into the host devices (Ref: FCC KDB 996369 D04 Module Integration Guide v01)
- 2) Conducted emissions test results are provided in a separate report (SGS# 5051671EMC01)

1.1 Modifications Required for Compliance

None

2 General Information

2.1 Client Information

Name: Aegex Technologies
Address: Flatiron Building, 84 Peachtree St NW
City, State, Zip, Country: Atlanta, GA 30303, 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

2.3 General Information of EUT

Product Marketing Name (PMN): Tablet
Model Number (HVIN): 100M
Firmware Version ID (FVIN): --
Product ID: 00436-30200-00644-AAOEM

Frequency Range: 2402 – 2480 MHz
2412 – 2462 MHz
5180 -5240 MHz (U-NII-1 Band)
5500 – 5700 MHz (U-NII-2c Band)
5745 – 5825 MHz (U-NII-3 Band)

Data Modes: Bluetooth Low Energy – GFSK
802.11 – b,g,n (2.4 GHz)
802.11 – a/n/ac/ax (5 GHz)

Antenna Model: Contains 2 (W3006, Pulse), Ceramic chip 2.4/5GHz dual band
*Antenna Gain: 2.42GHz:2.0dBi, 5.15GHz: 3.2dBi, 5.51GHz 4.0dBi,
5.85GHz 5.0dBi

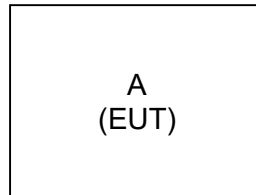
Sample Received Date: 03 April 2023
Dates of testing: 4-5 May 2023

2.4 Operating Modes and Conditions

The EUT had an app to control the radios. Using an application provided by Aegex, continuous pinging of the radio interface was used to generate high throughput traffic. The spectrum was evaluated for spurious emissions due to harmonics and intermodulation products from simultaneous transmissions.

Based on AX210 FCC report, 802.11n and 802.11ac40 were the highest spectral density channels for 2.4GHz and 5GHz, respectively.

2.5 EUT Connection Block Diagram – Radiated Measurements



Inside Chamber

Outside Chamber

2.6 System Configurations

Device reference	Manufacturer	Description	Model Number	Serial Number
A	Aegex Technologies, LLC	Tablet	100M	00436-30200-00644-AAOEM

4 Intentional Radiator Antenna Requirement

4.1 *Result*

Test Description	Test Specification	Test Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203	Compliant

4.2 *Requirement*

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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

4.3 *Conclusion*

The external antennas are ceramic type SMD that cannot be easily modified.

5 Field Strength of Spurious Radiation

5.1 Test Result

Test Description	Test Specification		Test Result
Radiated Spurious Emissions	15.247(d) and 15.209	RSS-247 S5.5	Compliant

5.2 Test Method

The measurement methods defined in ANSI C63.10: 2013 were used.

Lowest, middle, and highest channels were investigated – the device was commanded to continuously transmit on channels low, middle, and high channels.

Test distance:

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

5.3 Test Site

10m chamber SGS EMC Laboratory, Suwanee, GA

Environmental Conditions	30-1000MHz	1-18GHz
Temperature:	22.26 °C	22.48 °C
Relative Humidity:	29.2 %	33.9 %
Atmospheric Pressure:	98.09 kPa	98.71 kPa

5.4 Test Equipment

30-1000 MHz

Test End Date: 4-May-2023

Tester: EW, LM

Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
ANTENNA, BILOG	JB6	SUNOL	B079690	19-Apr-2022	19-Apr-2024
N to N RF Cable	EM-B810NM-276	Echelon	22034	23-Jan-2023	23-Jan-2024
RF CABLE	SF106	HUBER & SUHNER	B079713	25-Aug-2022	25-Aug-2023
RF CABLE, NM TO NM.	90-195-157	TELEDYNE STORM MICROWAVE	21019	14-Mar-2023	14-Mar-2024
RF CABLE RIGHT ANGLE NM TO NM, 0.01-18GHZ	90-076-020	TELEDYNE STORM MICROWAVE	20131	13-Mar-2023	13-Mar-2024
LOW NOISE AMPLIFIER	ZKL-2+	MINI-CIRCUITS	B079817	25-Aug-2022	25-Aug-2023
ROTARY NM TO NF CONNECTOR	18-2120-0	DIAMOND ANTENNA AND MICROWAVE CORP	22007	13-Mar-2023	13-Mar-2024
EMI TEST RECEIVER	ESW44	ROHDE & SCHWARZ	22027	13-Sep-2022	13-Sep-2023

Above 1GHz

Test End Date: 5-May-2023

Tester: EW

Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
ANTENNA, DRG HORN (MEDIUM)	3117	ETS LINDGREN	B079699	29-Jul-2022	29-Jul-2024
N to N RF Cable	EM-B810NM-276	Echelon	22034	23-Jan-2023	23-Jan-2024
RF CABLE RIGHT ANGLE NM TO NM,	90-076-020	TELEDYNE STORM MICROWAVE	20132	13-Mar-2023	13-Mar-2024
LOW NOISE AMPLIFIER	TS-PR18	ROHDE & SCHWARZ	B094463	13-Jul-2022	13-Jul-2023
EMI TEST RECEIVER	ESW44	ROHDE & SCHWARZ	22027	26-Oct-2021	26-Oct-2022
FILTER, HIGH PASS, >2800MHZ	HPM50111	MICRO-TRONICS	22017	16-Jun-2022	16-Jun-2023
FILTER, HIGH PASS, >6250MHZ	HPM50112	MICRO-TRONICS	B093647	11-Jul-2022	11-Jul-2023

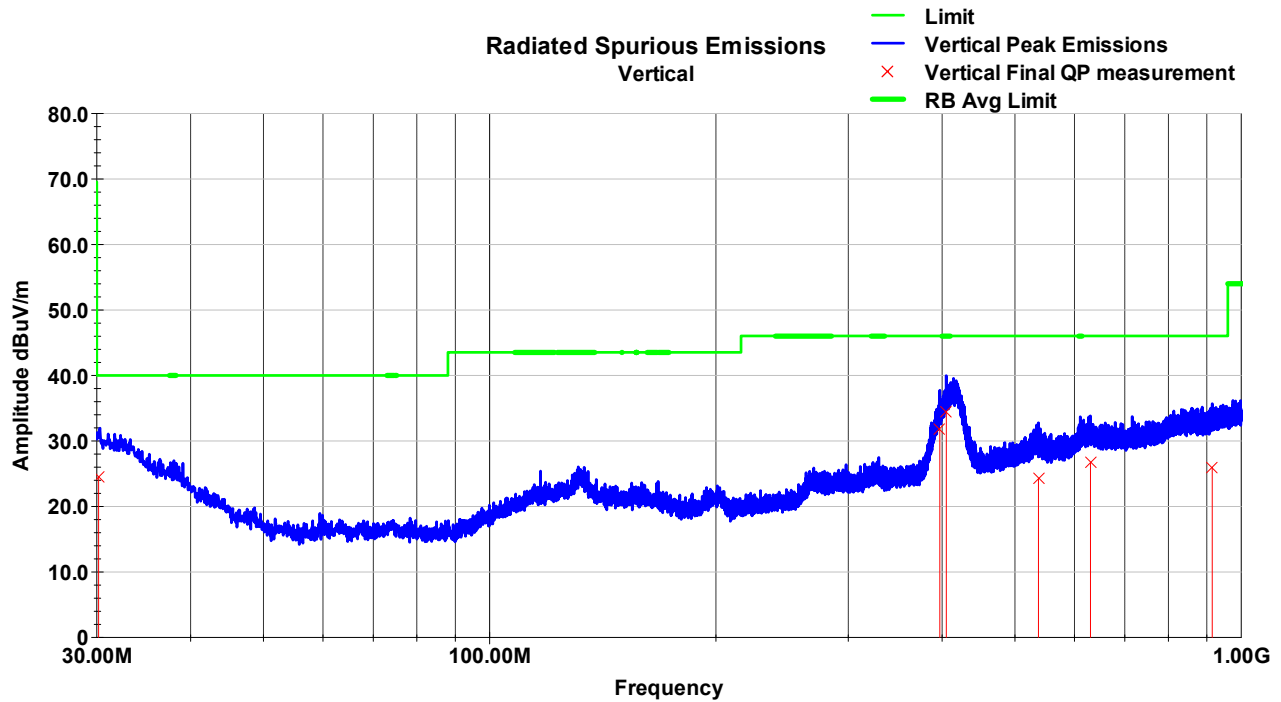
Software:

RSE 30-1000MHz T7 dated 18 March 2022

RSE 1-18GHz T7 dates 12 Feb 2022

5.5 Test Data – WLAN 2.4GHz

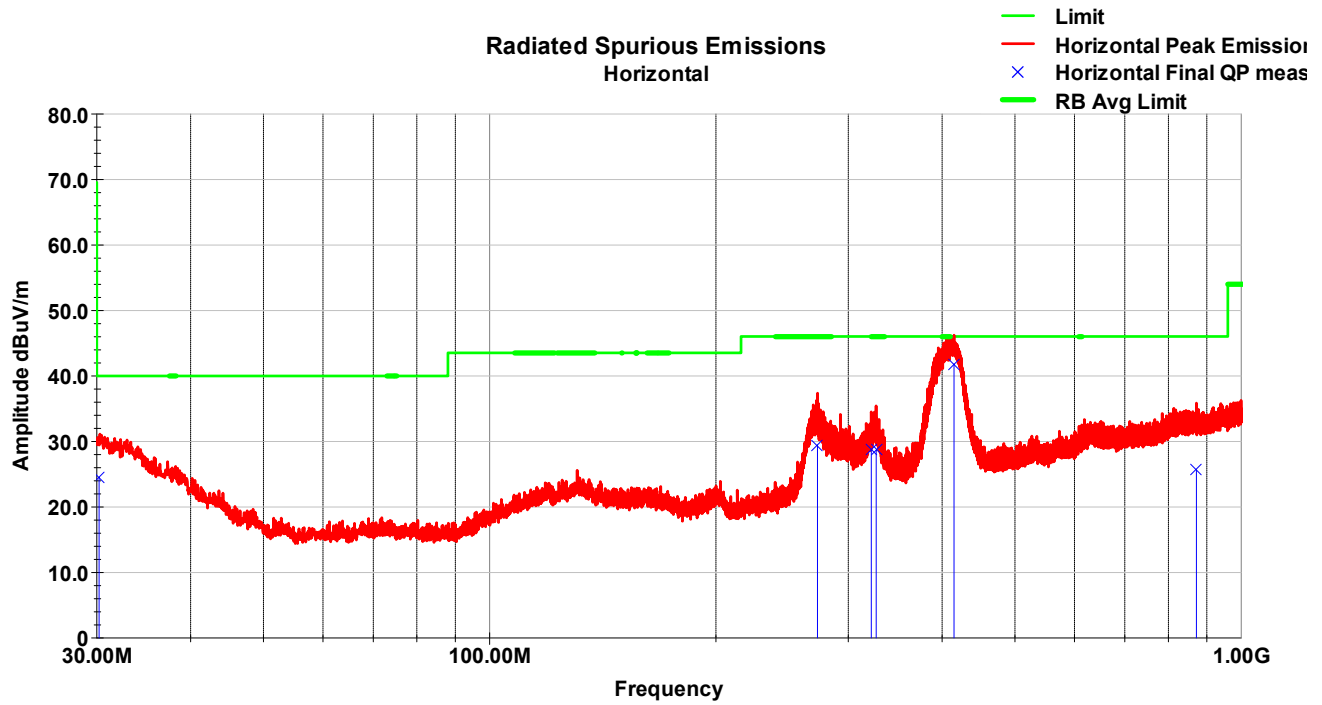
WLAN 2.4GHz - 30-1000 MHz – 802.11n Ch. 1



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)
30.17	29.2	V	229.0	288.0	26.0	0.4	31.0	24.6	40.0	-15.4
397.18	39.9	V	69.0	308.0	20.2	2.1	30.4	31.9	46.0	-14.1
405.22	42.2	V	80.0	267.0	20.4	2.1	30.4	34.5	46.0	-11.5
537.38	29.1	V	327.0	100.0	22.7	2.5	30.1	24.3	46.0	-21.8
630.11	30.0	V	113.0	100.0	24.0	2.6	30.0	26.7	46.0	-19.3
915.06	25.4	V	122.0	175.0	27.2	2.8	29.4	26.0	46.0	-20.1

QP Value = Raw QP + AF + Loss - Amp

Margin = QP Value - Limit

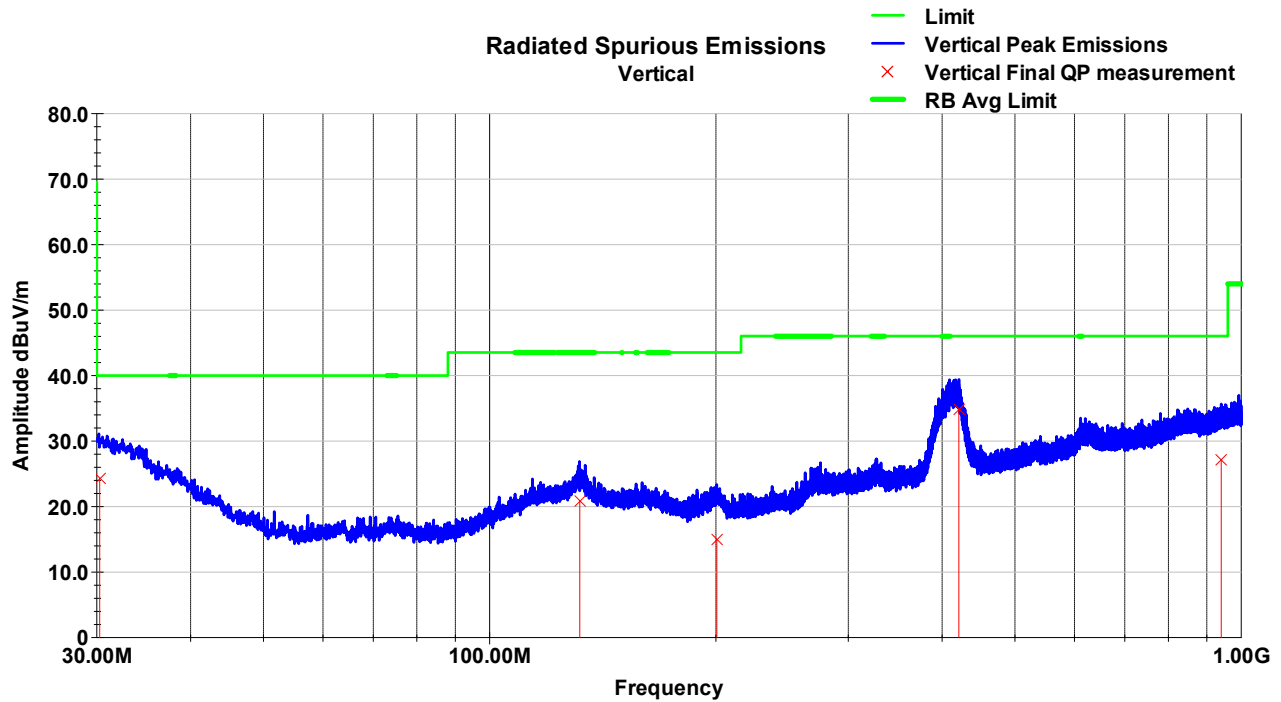


Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.22	29.2	H	136.0	286.0	25.9	0.4	31.0	24.5	40.0	-15.5
273.02	40.4	H	0.0	100.0	17.8	1.7	30.6	29.5	46.0	-16.6
321.97	38.6	H	359.0	100.0	18.7	1.9	30.5	28.8	46.0	-17.2
326.78	38.4	H	0.0	100.0	18.8	1.9	30.5	28.7	46.0	-17.3
414.84	49.3	H	0.0	100.0	20.6	2.1	30.3	41.8	46.0	-4.2
871.87	25.5	H	187.0	116.0	26.8	2.8	29.4	25.6	46.0	-20.4

QP Value = Raw QP + AF + Loss - Amp

Margin = QP Value - Limit

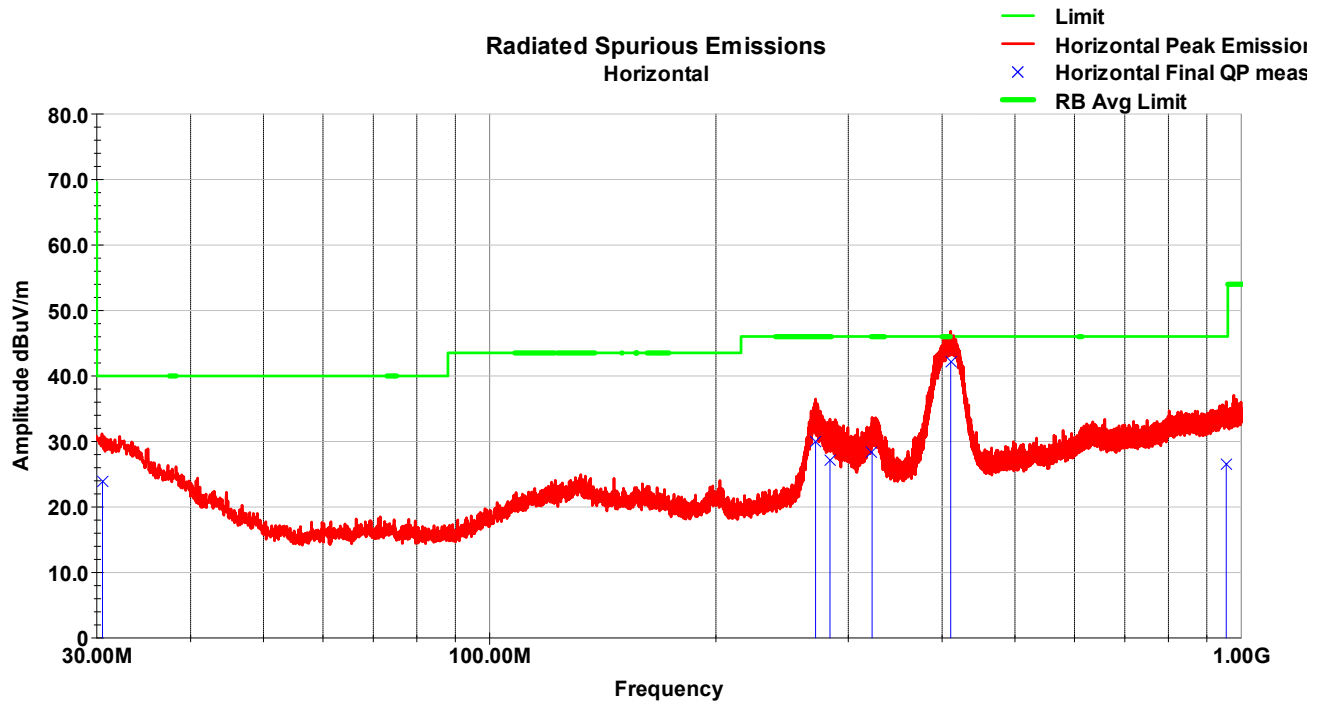
WLAN 2.4GHz - 30-1000 MHz – 802.11n Ch. 6



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)
30.27	29.0	V	7.0	339.0	25.9	0.4	31.0	24.3	40.0	-15.7
131.78	33.0	V	249.0	100.0	17.7	1.0	30.8	20.9	43.5	-22.6
200.56	27.3	V	220.0	324.0	16.9	1.4	30.6	15.0	43.5	-28.5
420.94	42.2	V	82.0	268.0	20.7	2.1	30.3	34.8	46.0	-11.2
940.62	26.1	V	154.0	100.0	27.4	2.9	29.3	27.1	46.0	-18.9
871.87	25.5	H	187.0	116.0	26.8	2.8	29.4	25.6	46.0	-20.4

QP Value = Raw QP + AF + Loss - Amp

Margin = QP Value - Limit

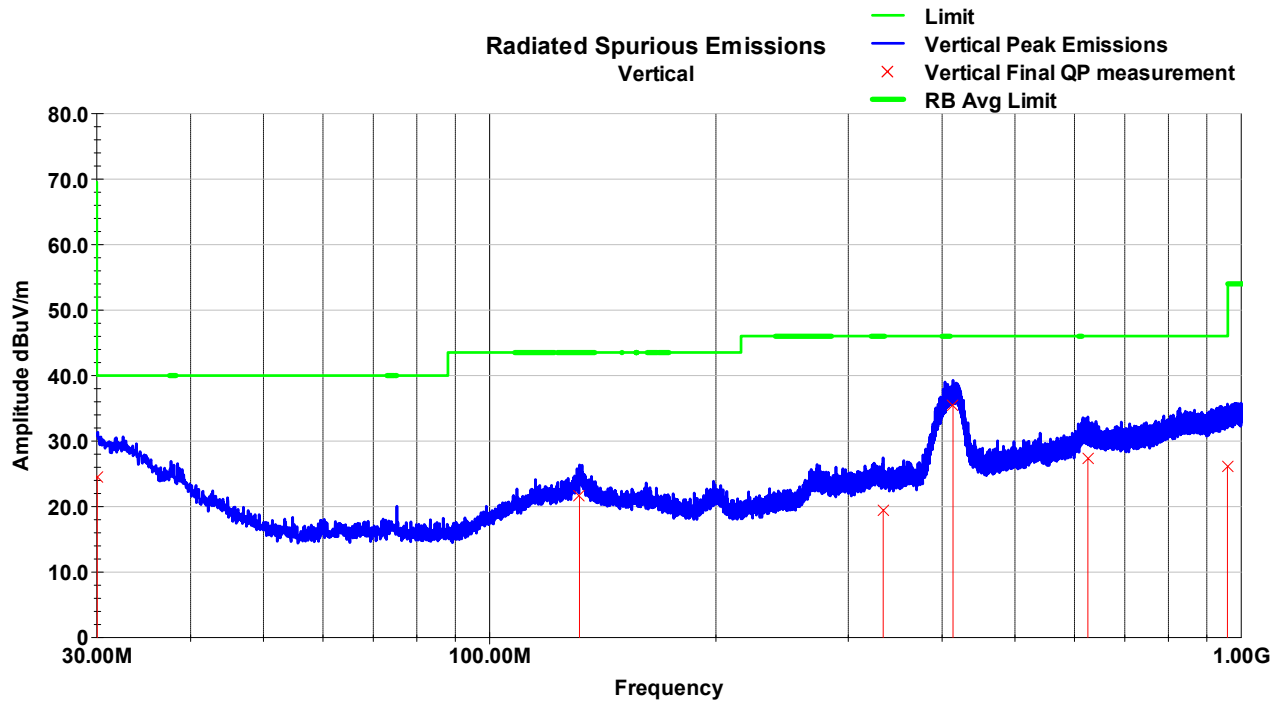


Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.54	28.9	H	269.0	117.0	25.7	0.4	31.0	24.0	40.0	-16.0
271.42	41.0	H	153.0	100.0	17.8	1.7	30.6	30.0	46.0	-16.0
283.69	37.8	H	335.0	100.0	18.0	1.8	30.5	27.1	46.0	-18.9
322.77	38.1	H	351.0	100.0	18.7	1.9	30.5	28.4	46.0	-17.7
410.65	49.8	H	0.0	100.0	20.5	2.1	30.3	42.1	46.0	-3.9
955.07	25.5	H	109.0	175.0	27.4	3.0	29.3	26.6	46.0	-19.4

QP Value = Raw QP + AF + Loss - Amp

Margin = QP Value - Limit

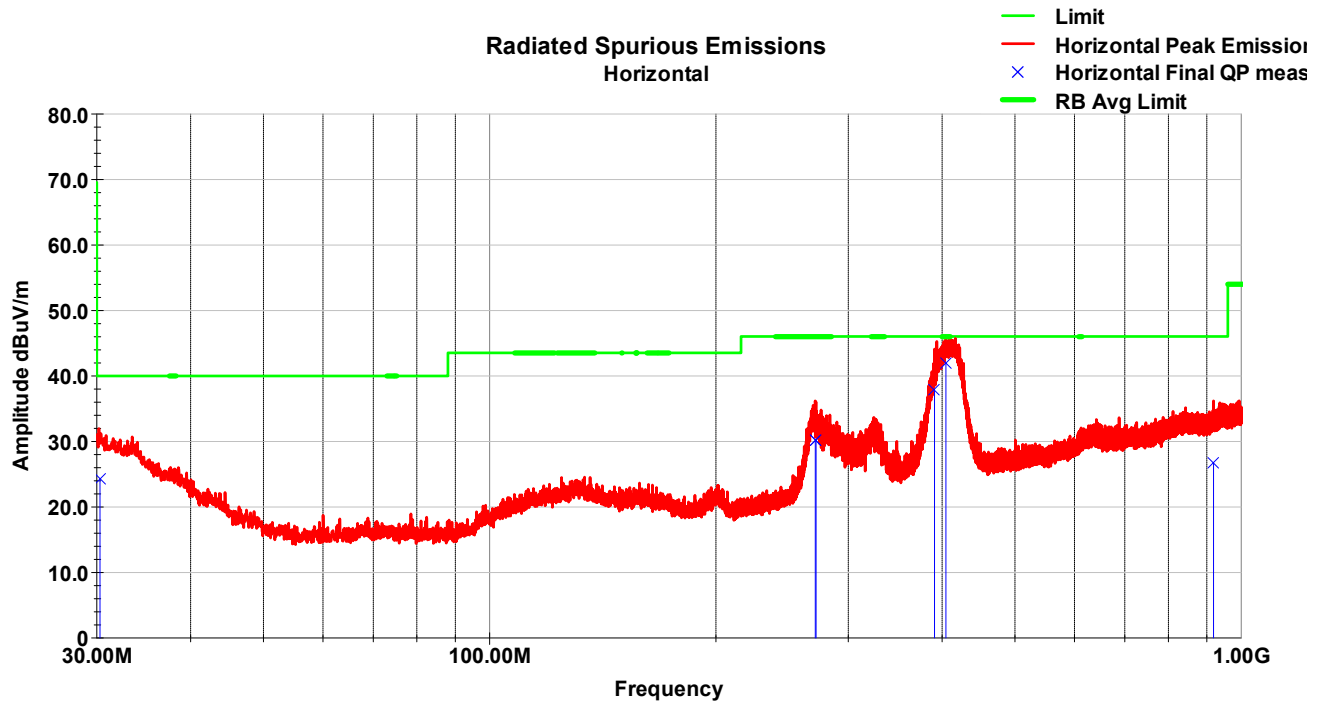
WLAN 2.4GHz - 30-1000 MHz – 802.11n Ch 11



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)
30.05	29.2	V	197.0	138.0	26.1	0.4	31.0	24.6	40.0	-15.4
131.68	33.6	V	47.0	100.0	17.7	1.0	30.8	21.6	43.5	-22.0
333.92	29.1	V	77.0	137.0	18.9	2.0	30.5	19.5	46.0	-26.5
413.62	43.1	V	74.0	267.0	20.6	2.1	30.3	35.5	46.0	-10.5
625.12	30.6	V	117.0	100.0	23.9	2.6	30.0	27.2	46.0	-18.8
958.80	25.0	V	310.0	158.0	27.4	3.0	29.3	26.1	46.0	-19.9

QP Value = Raw QP + AF + Loss - Amp

Margin = QP Value - Limit

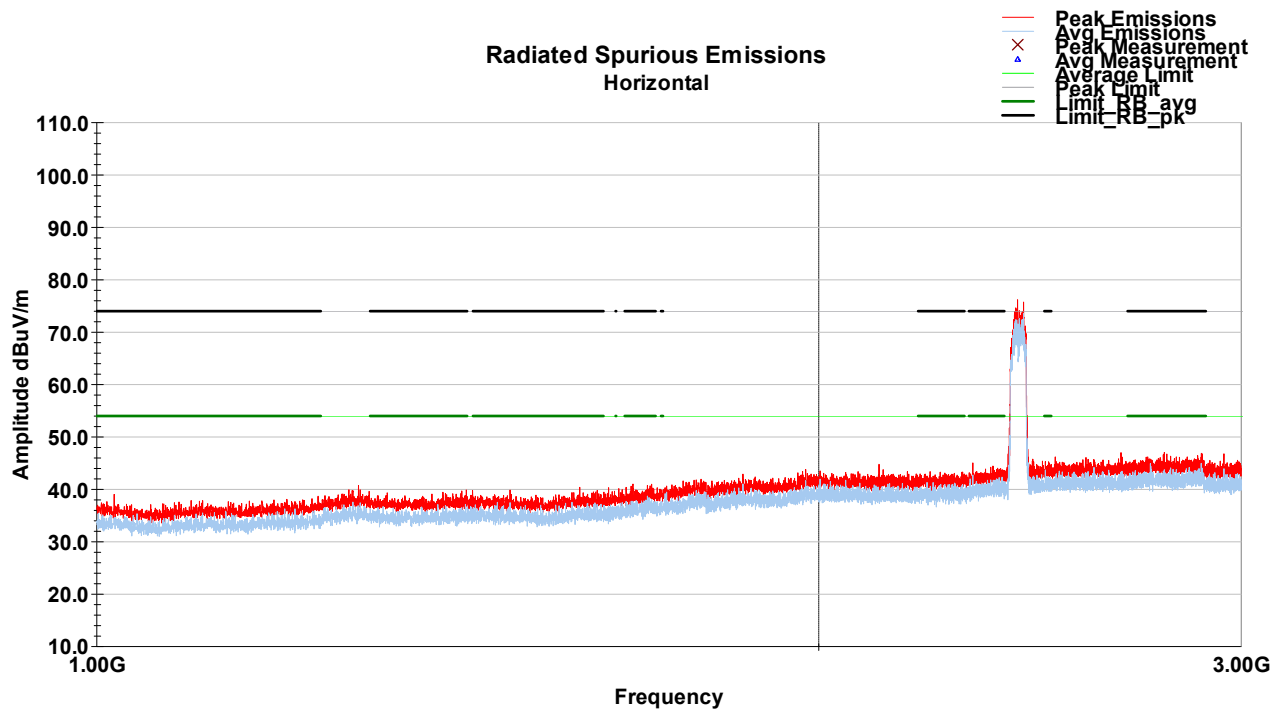
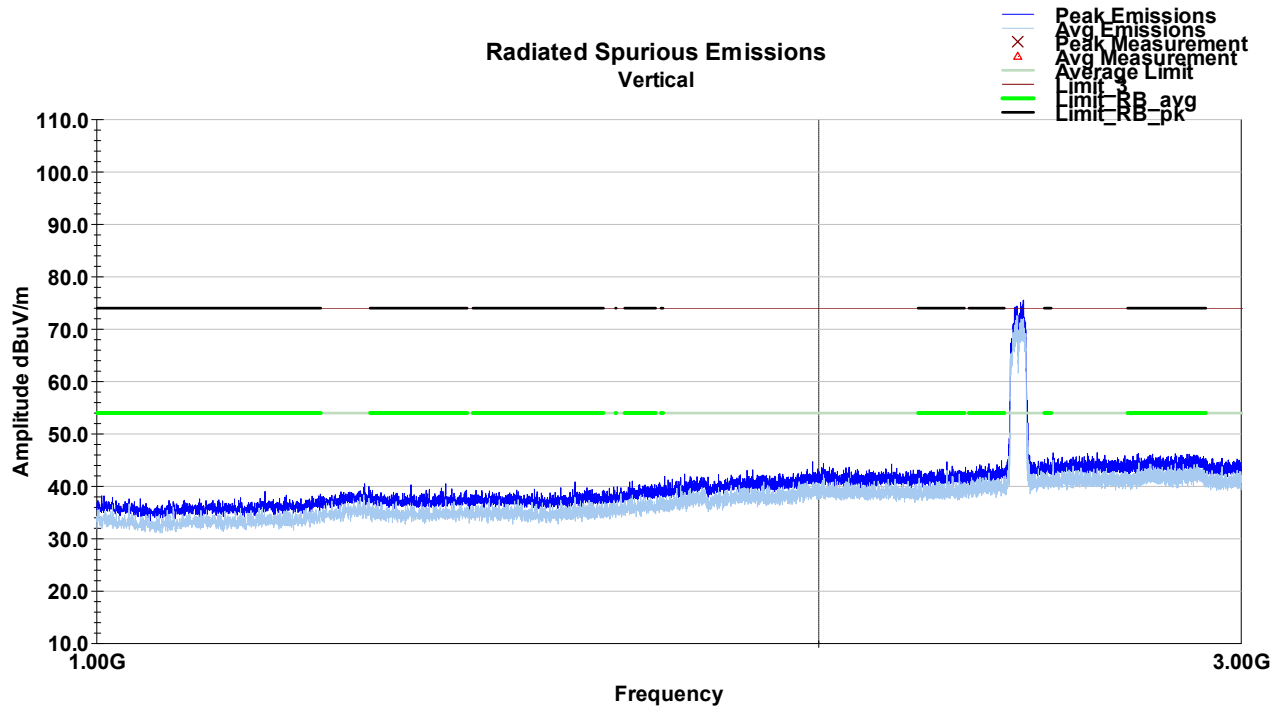


Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.30	29.0	H	323.0	324.0	25.9	0.4	31.0	24.3	40.0	-15.7
271.14	41.1	H	171.0	100.0	17.8	1.7	30.6	30.1	46.0	-15.9
271.80	41.2	H	350.0	100.0	17.8	1.7	30.6	30.2	46.0	-15.8
390.72	46.1	H	2.0	100.0	20.0	2.1	30.4	37.9	46.0	-8.1
404.65	49.7	H	2.0	100.0	20.4	2.1	30.4	41.9	46.0	-4.1
918.80	26.1	H	243.0	100.0	27.2	2.8	29.3	26.7	46.0	-19.3

QP Value = Raw QP + AF + Loss - Amp

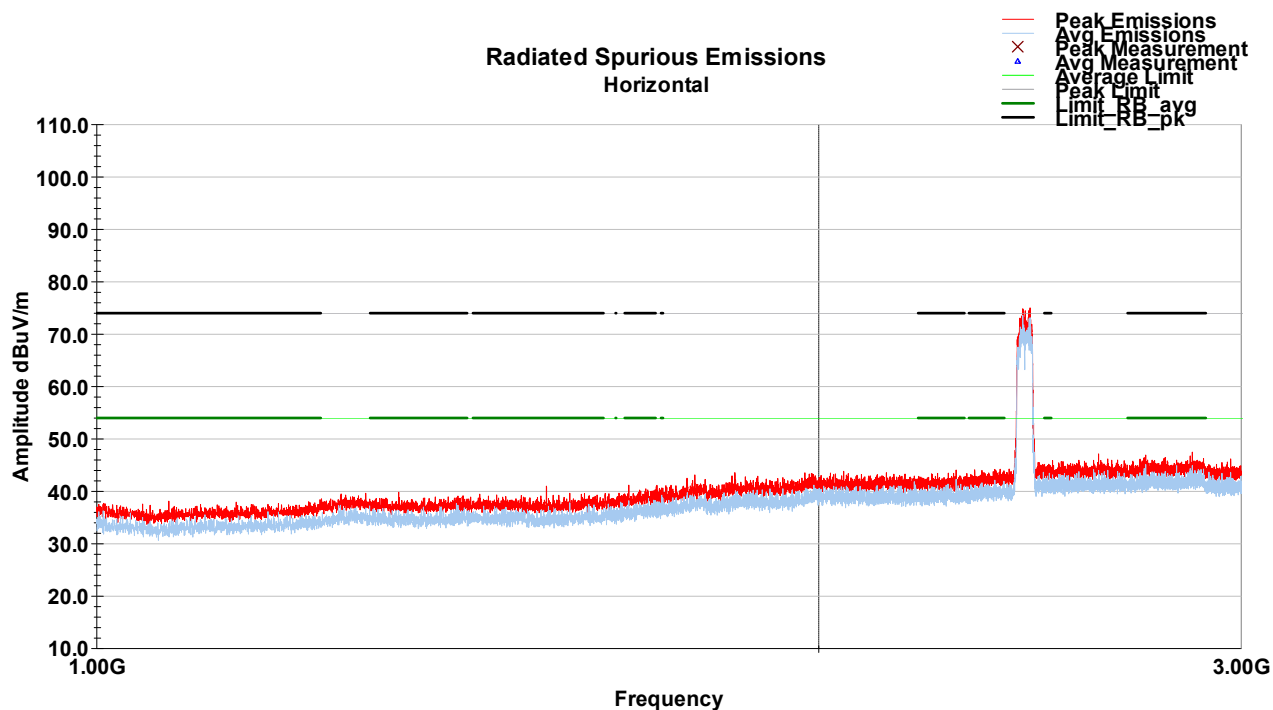
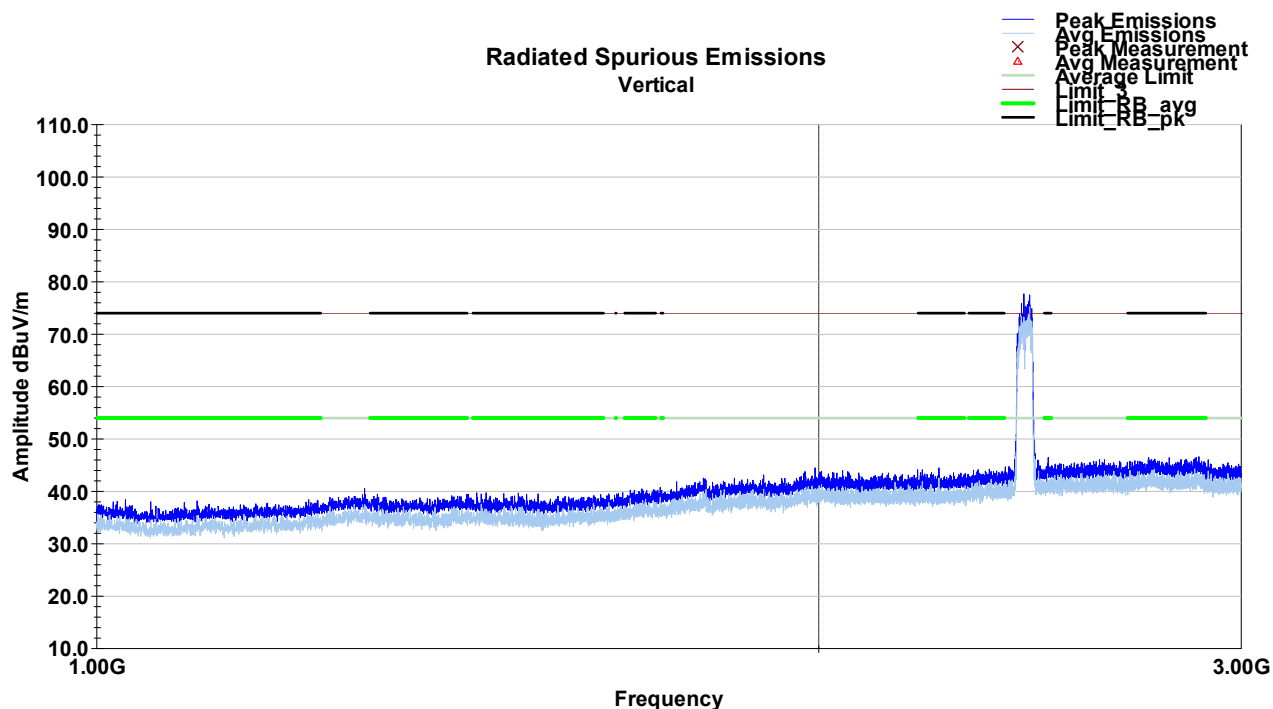
Margin = QP Value - Limit

WLAN 2.4GHz - 1-3 GHz – 802.11n Ch. 1



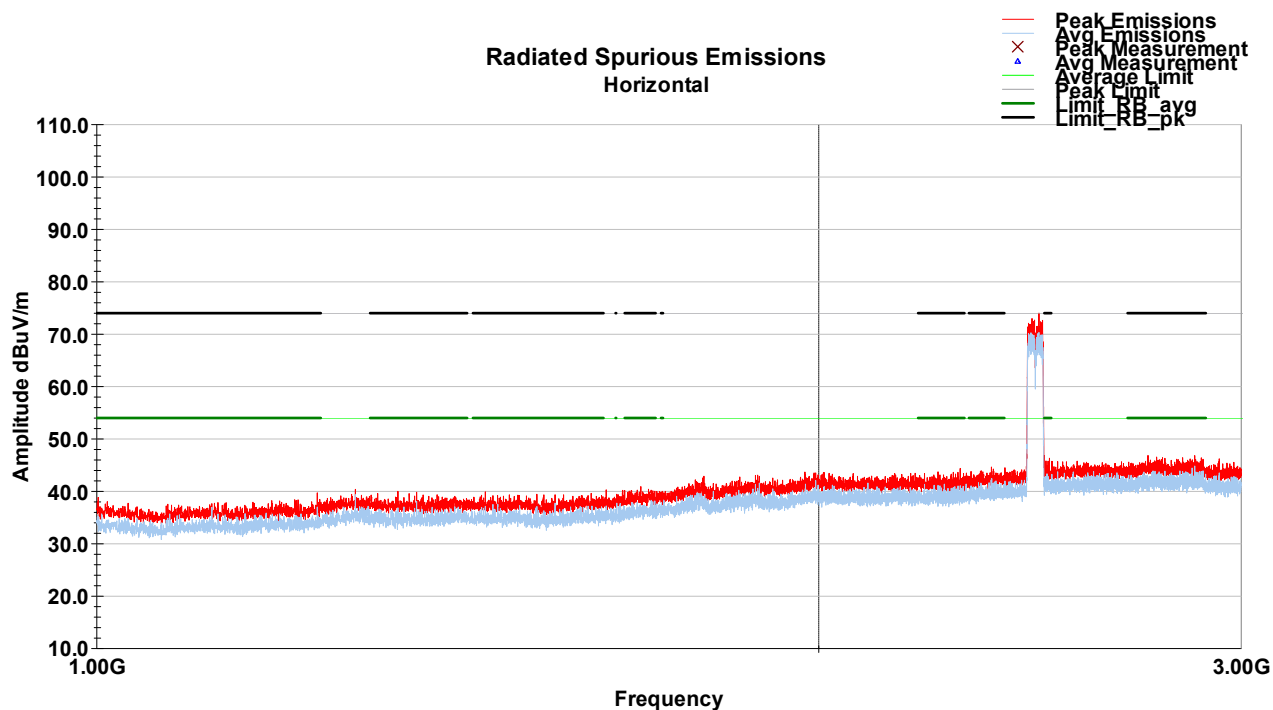
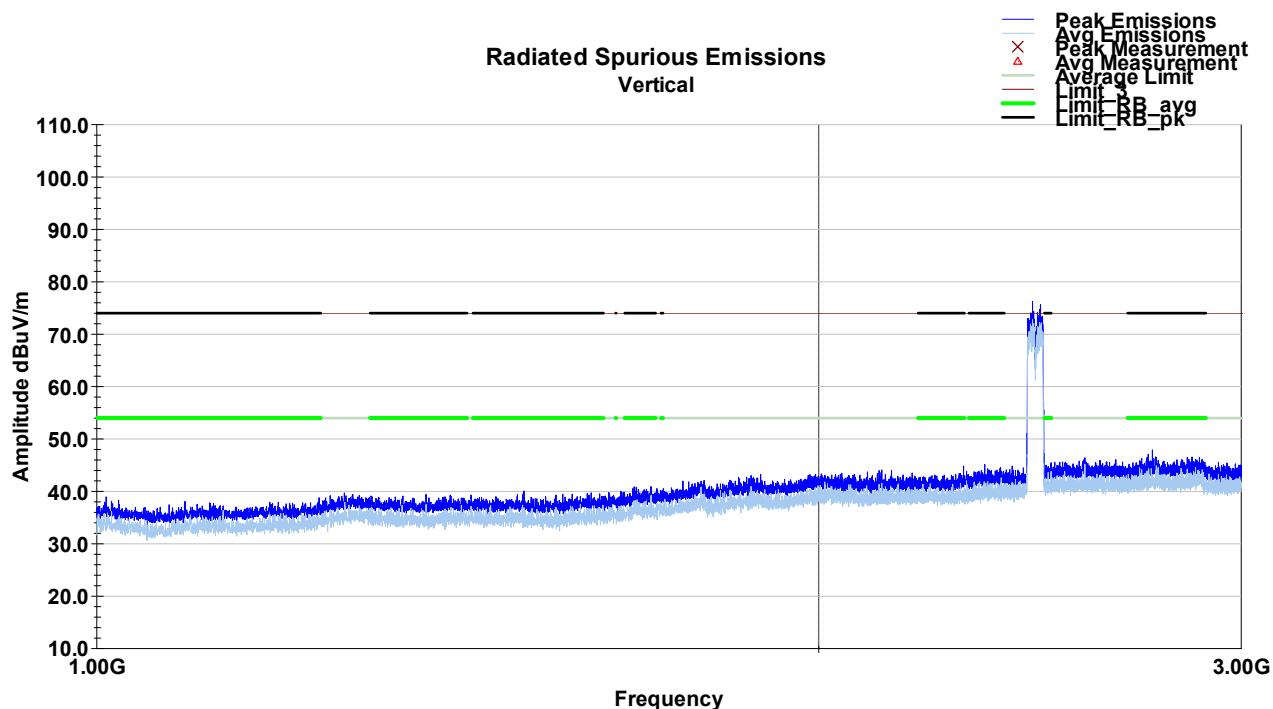
No discernible emissions detected from 1GHz – 3GHz.

WLAN 2.4GHz - 1-3 GHz – 802.11n Ch. 6



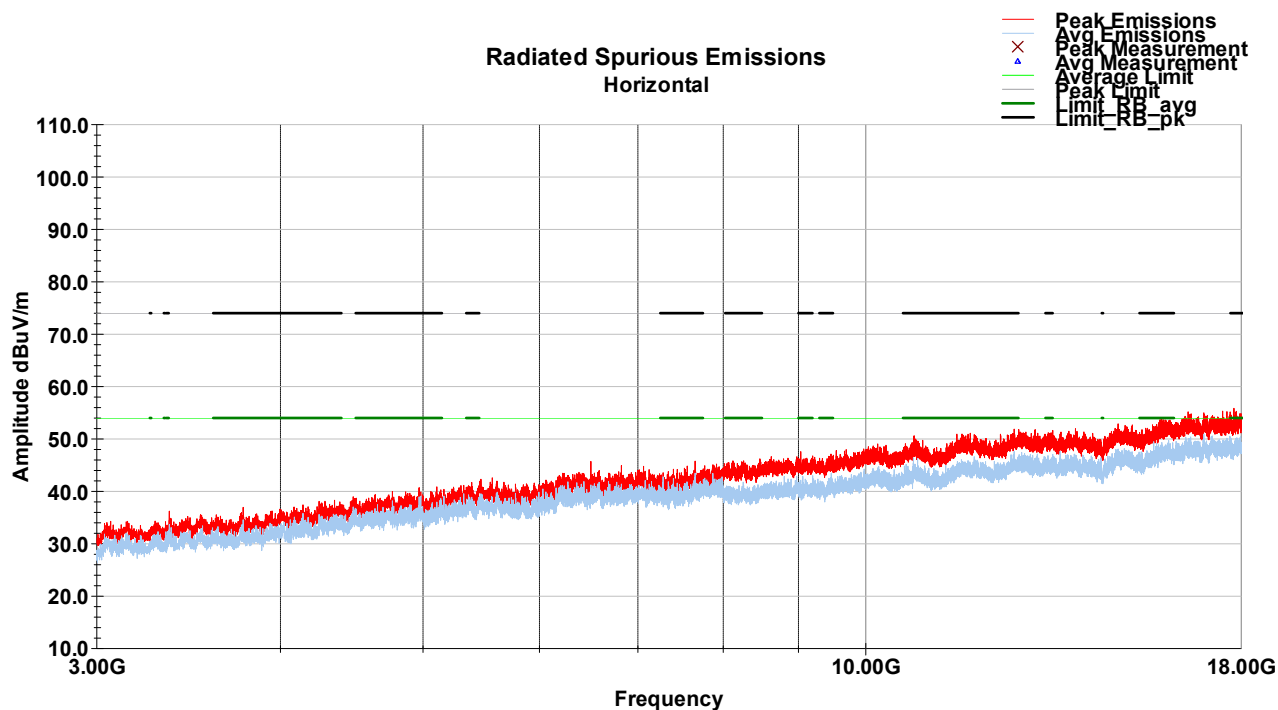
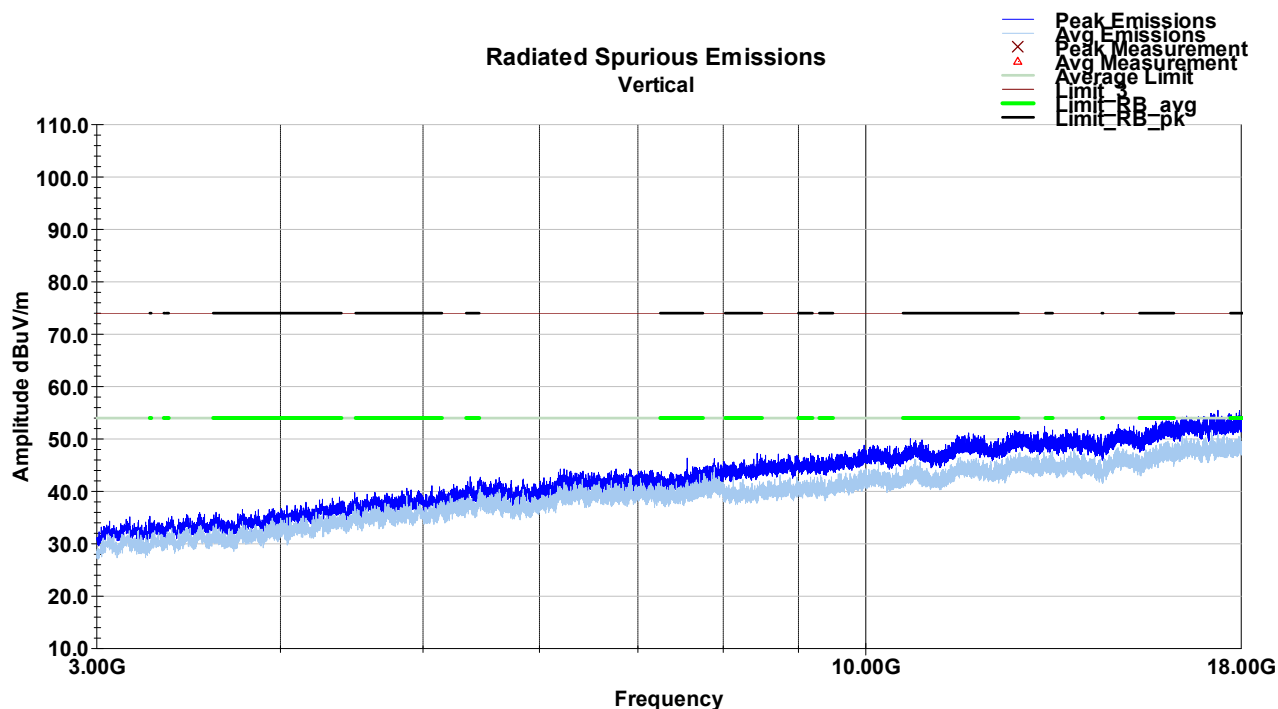
No discernible emissions detected from 1GHz – 3GHz.

WLAN 2.4GHz - 1-3 GHz – 802.11n Ch. 11



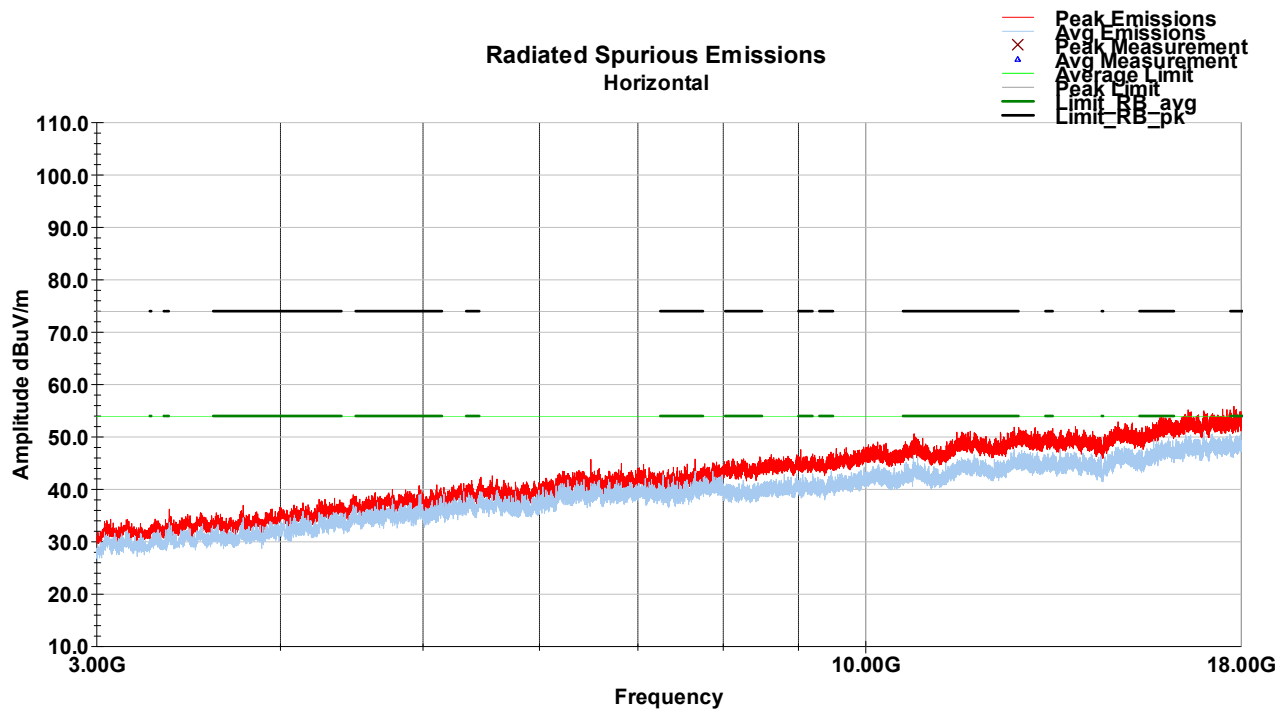
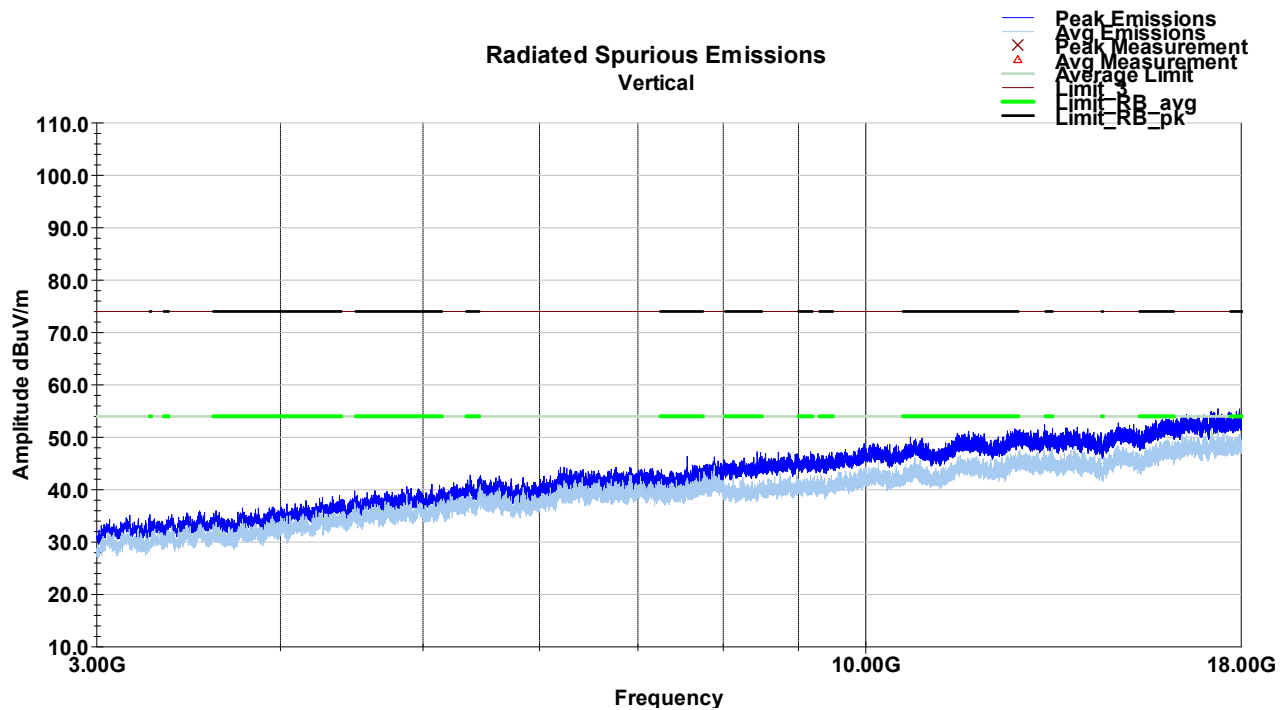
No discernible emissions detected from 1GHz – 3GHz.

WLAN 2.4GHz - 3-18 GHz – 802.11n Ch. 1



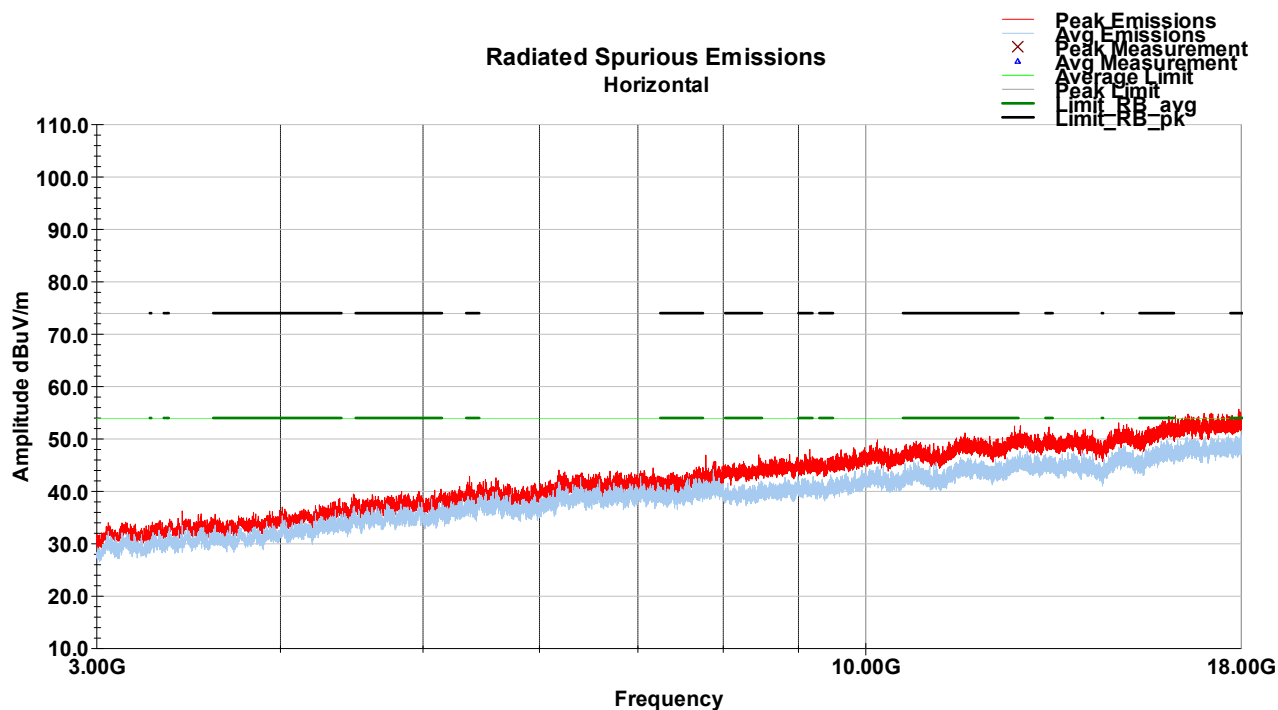
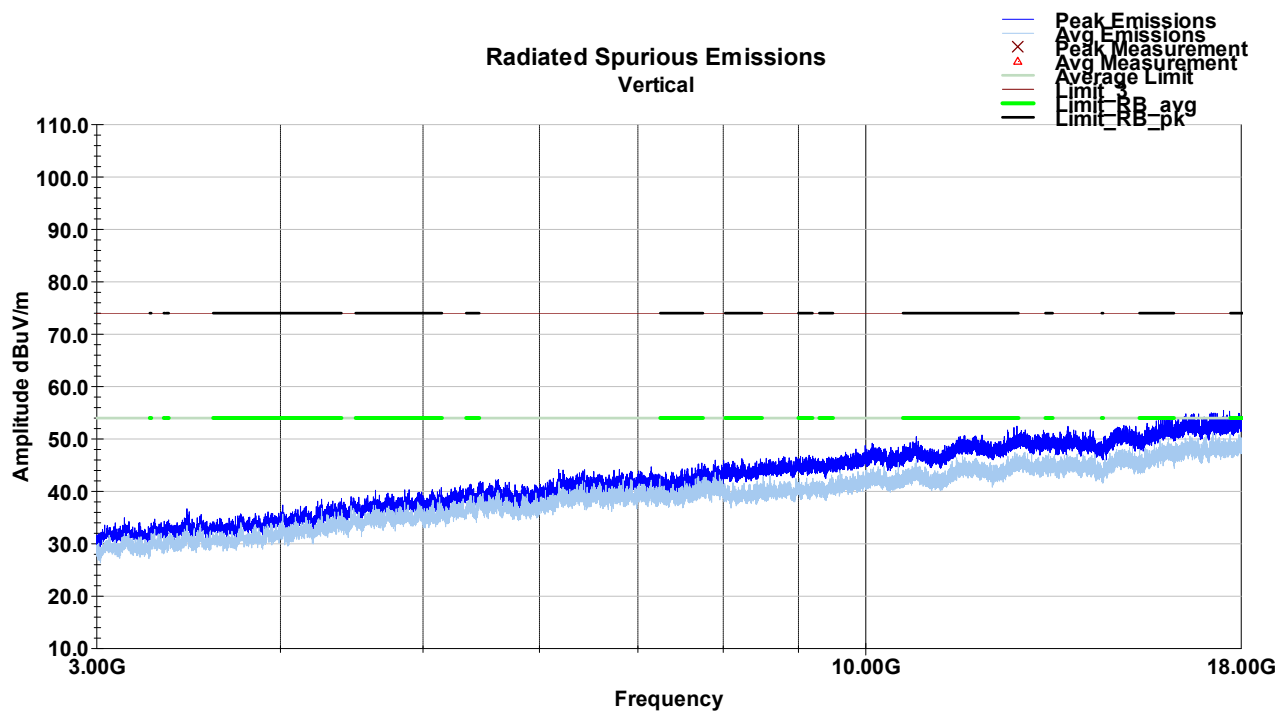
No discernible emissions detected from 3GHz – 18GHz.

WLAN 2.4GHz - 3-18 GHz – 802.11n Ch. 6



No discernible emissions detected from 3GHz – 18GHz.

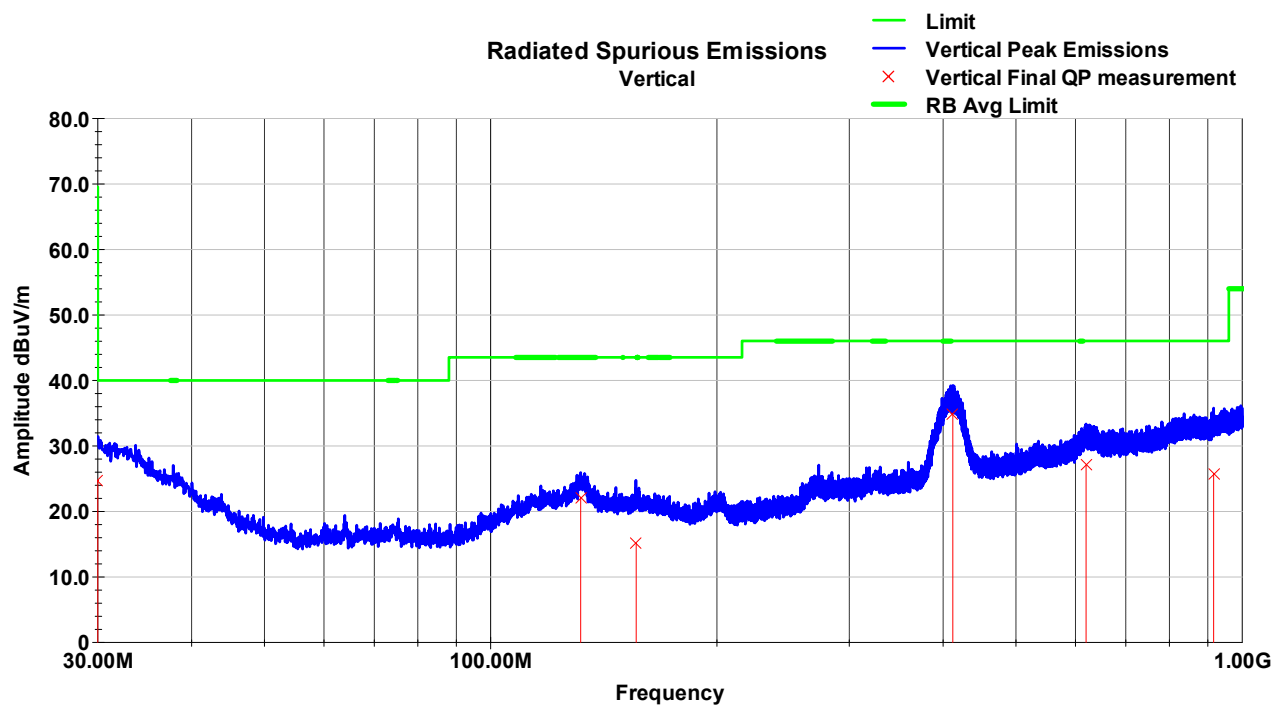
WLAN 2.4GHz - 3-18 GHz – 802.11n Ch. 11



No discernible emissions detected from 3GHz – 18GHz.

5.6 Test Data – WLAN 5GHz

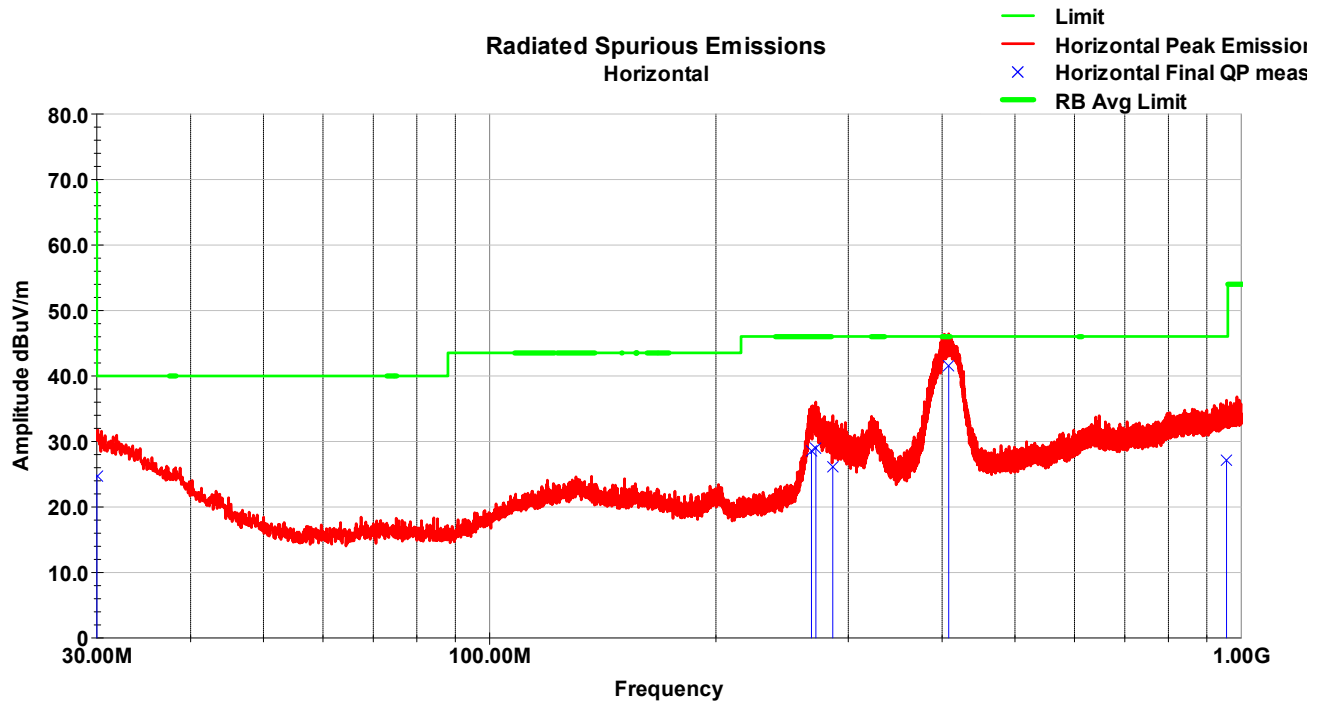
WLAN 5GHz - 30-1000 MHz – 802.11ac40 Ch. 38



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)
30.00	29.2	V	333.0	100.0	26.1	0.4	31.0	24.7	69.5	-44.9
131.73	34.2	V	263.0	100.0	17.7	1.0	30.8	22.2	43.5	-21.4
156.17	27.9	V	290.0	361.0	16.8	1.1	30.8	15.1	43.5	-28.4
412.06	42.6	V	89.0	284.0	20.5	2.1	30.3	34.9	46.0	-11.1
619.89	30.5	V	120.0	100.0	23.9	2.6	30.0	27.1	46.0	-18.9
916.31	25.2	V	112.0	100.0	27.2	2.8	29.4	25.8	46.0	-20.2

QP Value = Raw QP + AF + Loss - Amp

Margin = QP Value - Limit

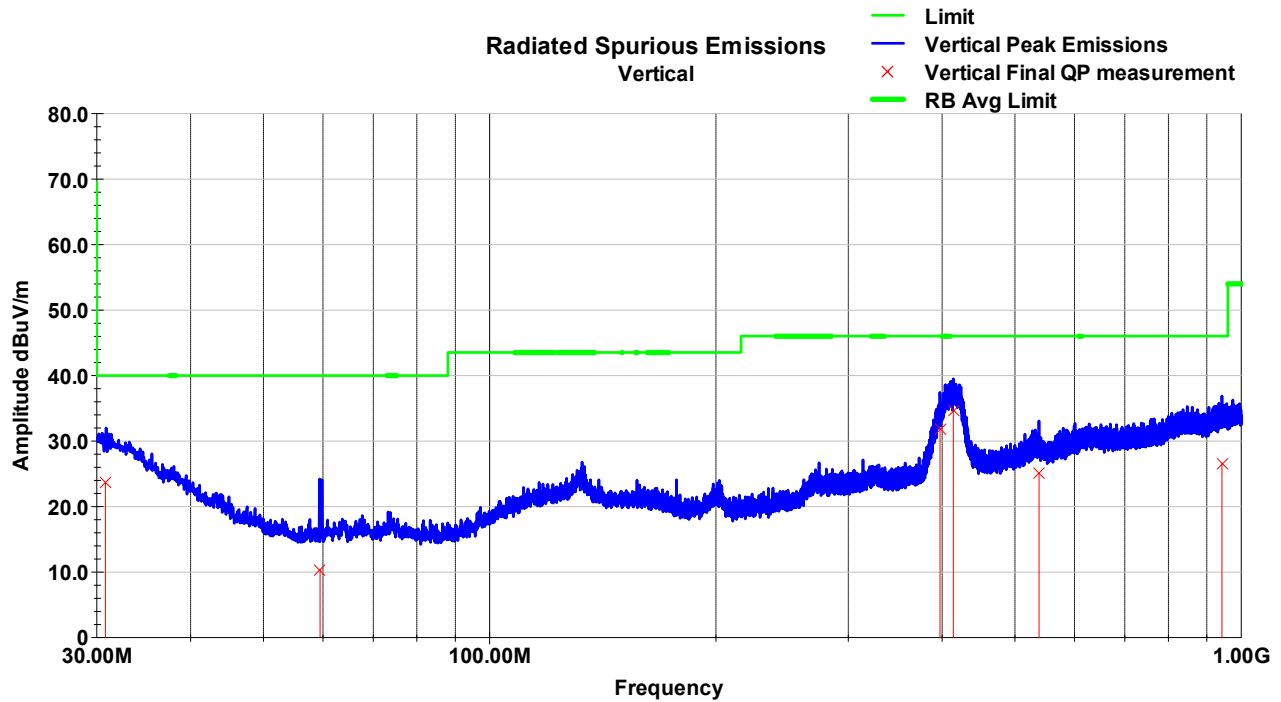


Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
30.01	29.2	H	61.0	399.0	26.1	0.4	31.0	24.6	40.0	-15.4
268.06	39.7	H	161.0	100.0	17.7	1.7	30.6	28.6	46.0	-17.5
271.66	40.0	H	162.0	100.0	17.8	1.7	30.6	29.0	46.0	-17.0
286.11	36.7	H	342.0	100.0	18.0	1.8	30.5	26.1	46.0	-19.9
408.18	49.3	H	10.0	100.0	20.4	2.1	30.4	41.6	46.0	-4.4
956.03	26.0	H	259.0	246.0	27.4	3.0	29.3	27.1	46.0	-19.0

QP Value = Raw QP + AF + Loss - Amp

Margin = QP Value - Limit

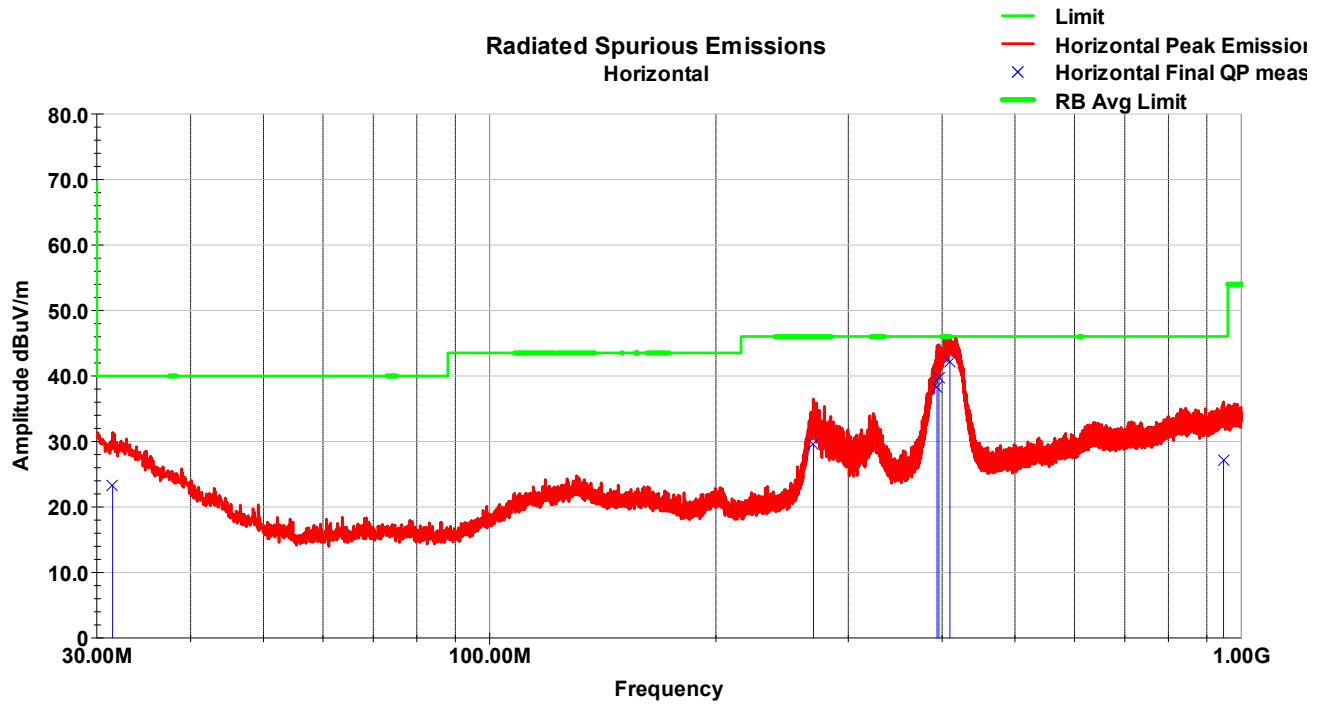
WLAN 5GHz - 30-1000 MHz – 802.11ac40 Ch. 110



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)
30.80	28.8	V	197.0	267.0	25.5	0.4	31.0	23.7	40.0	-16.3
59.47	29.2	V	252.0	306.0	11.4	0.7	31.0	10.3	40.0	-29.7
397.37	39.9	V	65.0	286.0	20.2	2.1	30.4	31.9	46.0	-14.1
413.90	42.1	V	74.0	306.0	20.6	2.1	30.3	34.6	46.0	-11.4
538.25	29.9	V	340.0	100.0	22.7	2.5	30.1	25.1	46.0	-20.9
942.65	25.6	V	184.0	100.0	27.4	2.9	29.3	26.6	46.0	-19.4

QP Value = Raw QP + AF + Loss - Amp

Margin = QP Value - Limit

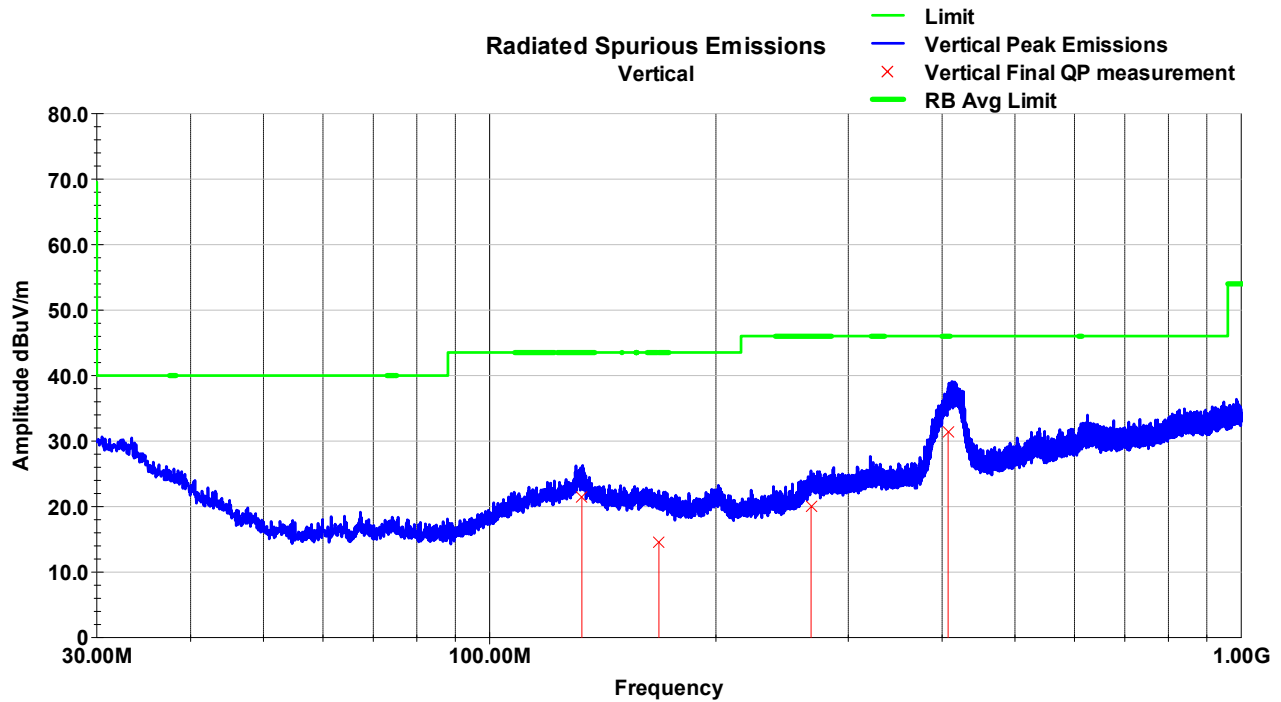


Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
31.49	28.9	H	248.0	362.0	25.0	0.4	31.0	23.4	40.0	-16.6
269.65	40.6	H	159.0	100.0	17.8	1.7	30.6	29.5	46.0	-16.5
393.74	46.5	H	20.0	100.0	20.1	2.1	30.4	38.4	46.0	-7.6
396.02	47.8	H	0.0	100.0	20.1	2.1	30.4	39.7	46.0	-6.3
409.69	49.9	H	359.0	100.0	20.5	2.1	30.3	42.2	46.0	-3.8
947.41	26.0	H	107.0	251.0	27.4	2.9	29.3	27.0	46.0	-19.0

QP Value = Raw QP + AF + Loss - Amp

Margin = QP Value - Limit

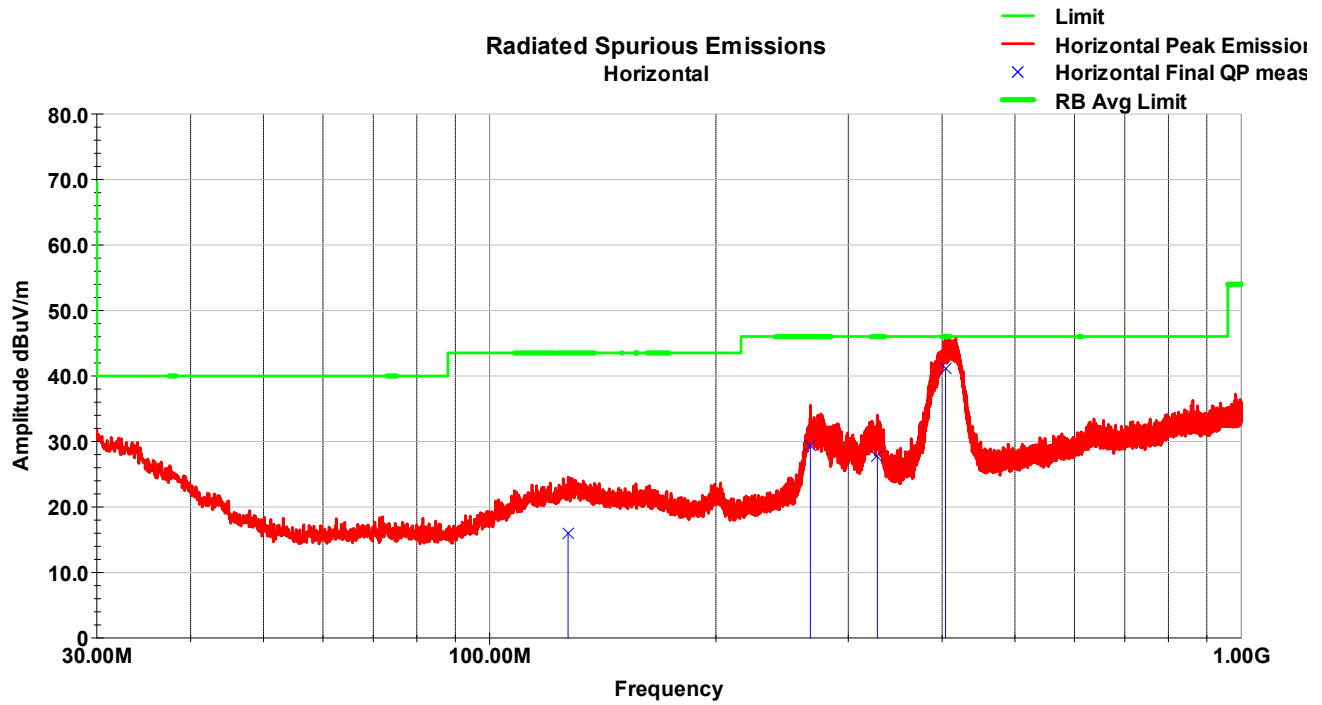
WLAN 5GHz - 30-1000 MHz – 802.11ac40 Ch. 159



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)
132.66	33.6	V	255.0	100.0	17.7	1.0	30.8	21.5	43.5	-22.0
167.96	27.7	V	4.0	325.0	16.2	1.2	30.7	14.5	43.5	-29.0
267.68	31.1	V	258.0	140.0	17.7	1.7	30.6	20.0	46.0	-26.1
407.41	39.2	V	129.0	263.0	20.4	2.1	30.4	31.4	46.0	-14.6

QP Value = Raw QP + AF + Loss - Amp

Margin = QP Value - Limit

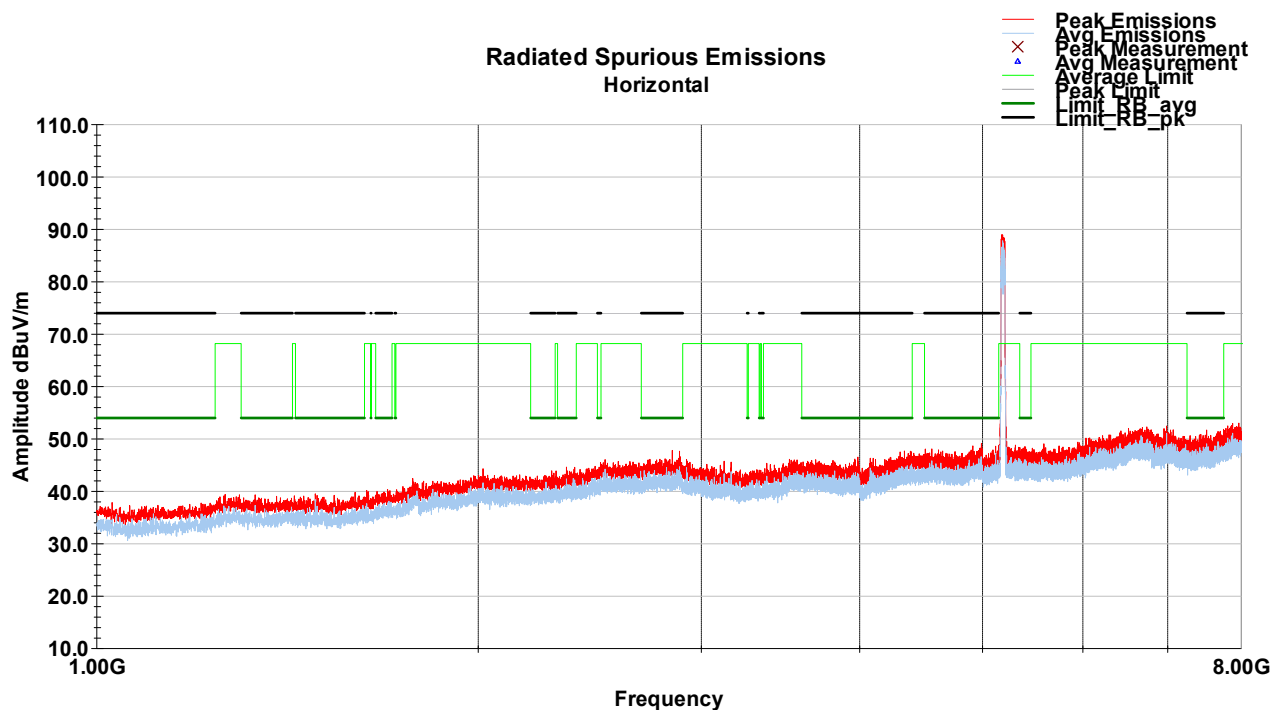
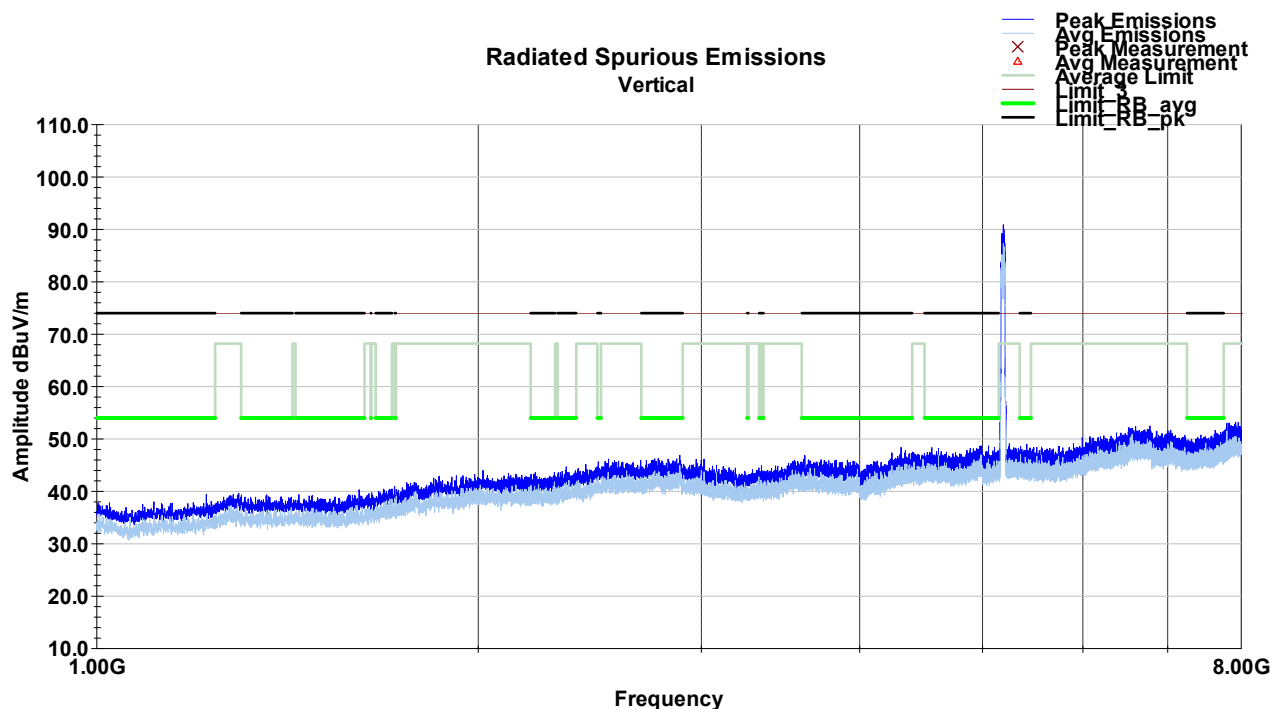


Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
127.15	28.0	H	201.0	142.0	17.9	1.0	30.8	16.1	43.5	-27.5
267.10	40.5	H	359.0	100.0	17.7	1.7	30.6	29.3	46.0	-16.7
327.99	37.5	H	359.0	100.0	18.8	1.9	30.5	27.8	46.0	-18.2
404.21	49.0	H	359.0	100.0	20.3	2.1	30.4	41.1	46.0	-4.9

QP Value = Raw QP + AF + Loss - Amp

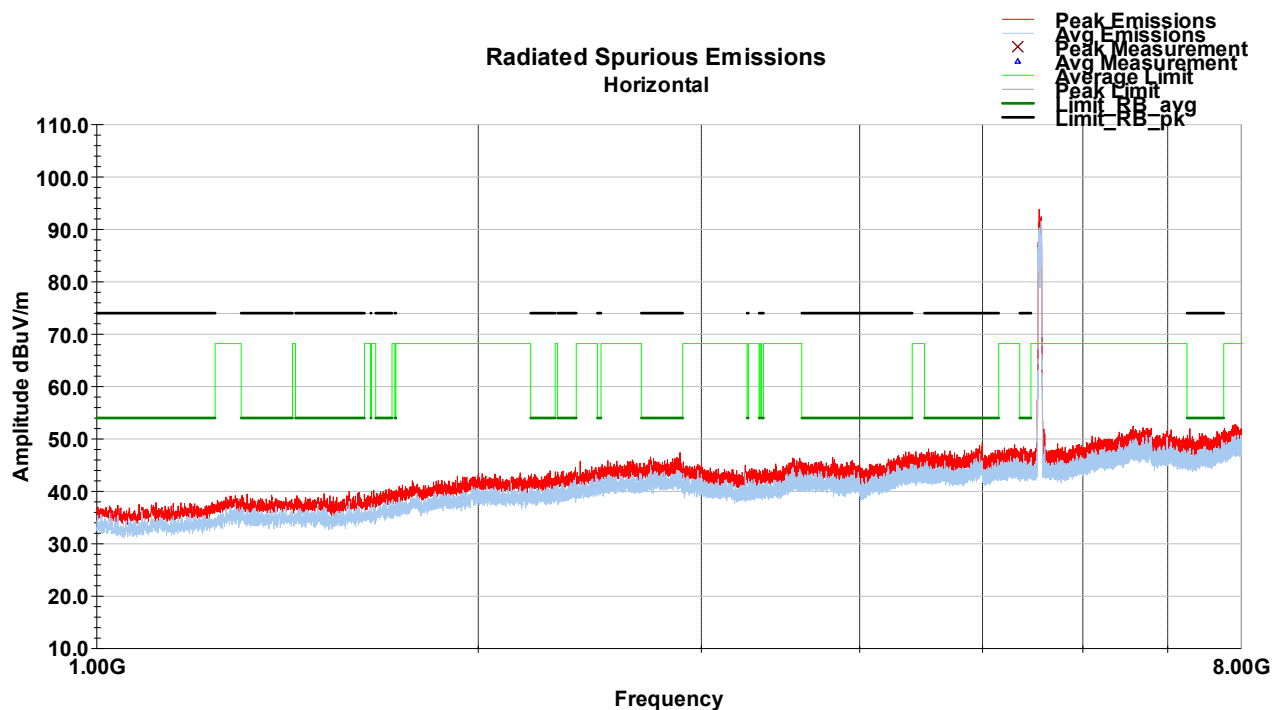
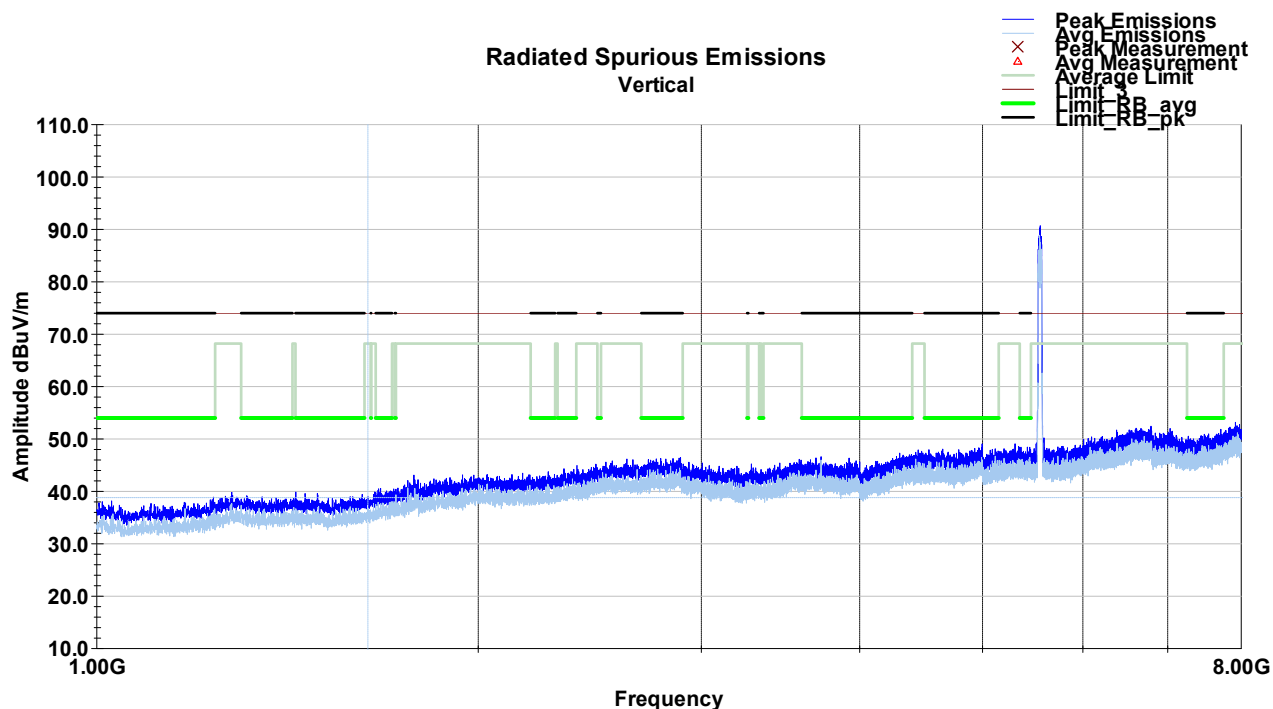
Margin = QP Value - Limit

WLAN 5GHz 1-8 GHz – 802.11ac40 Ch. 38



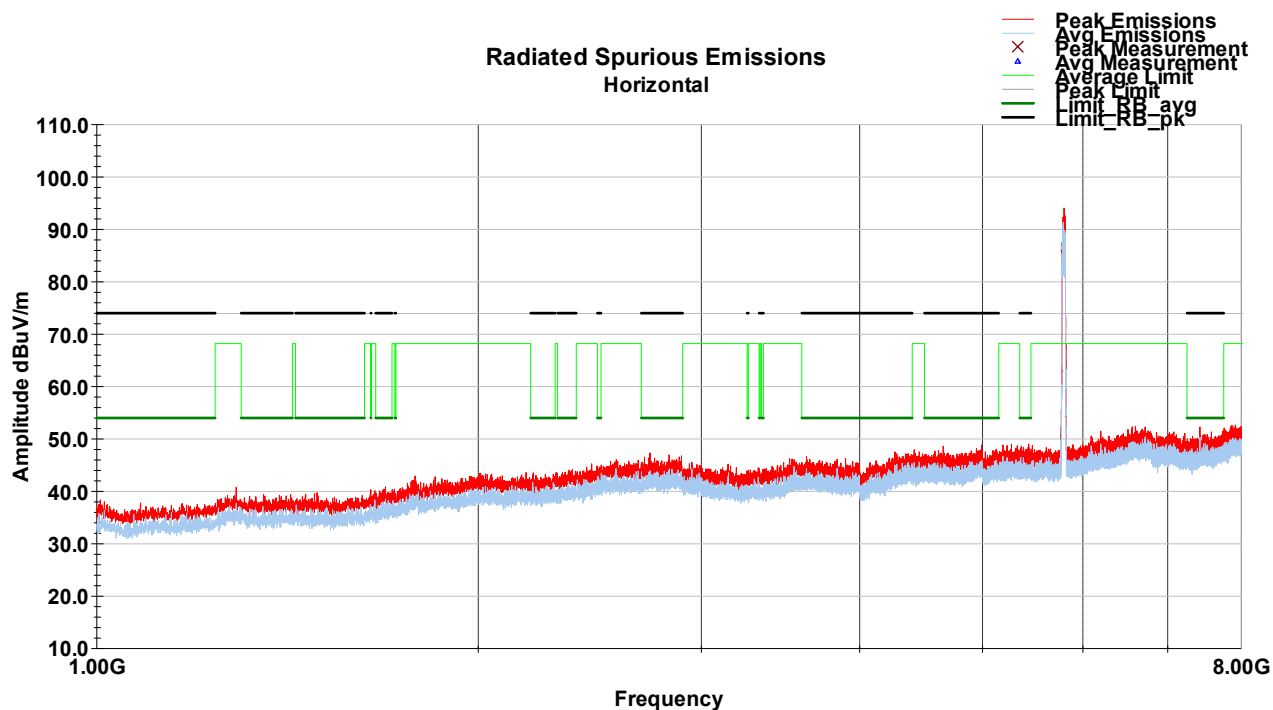
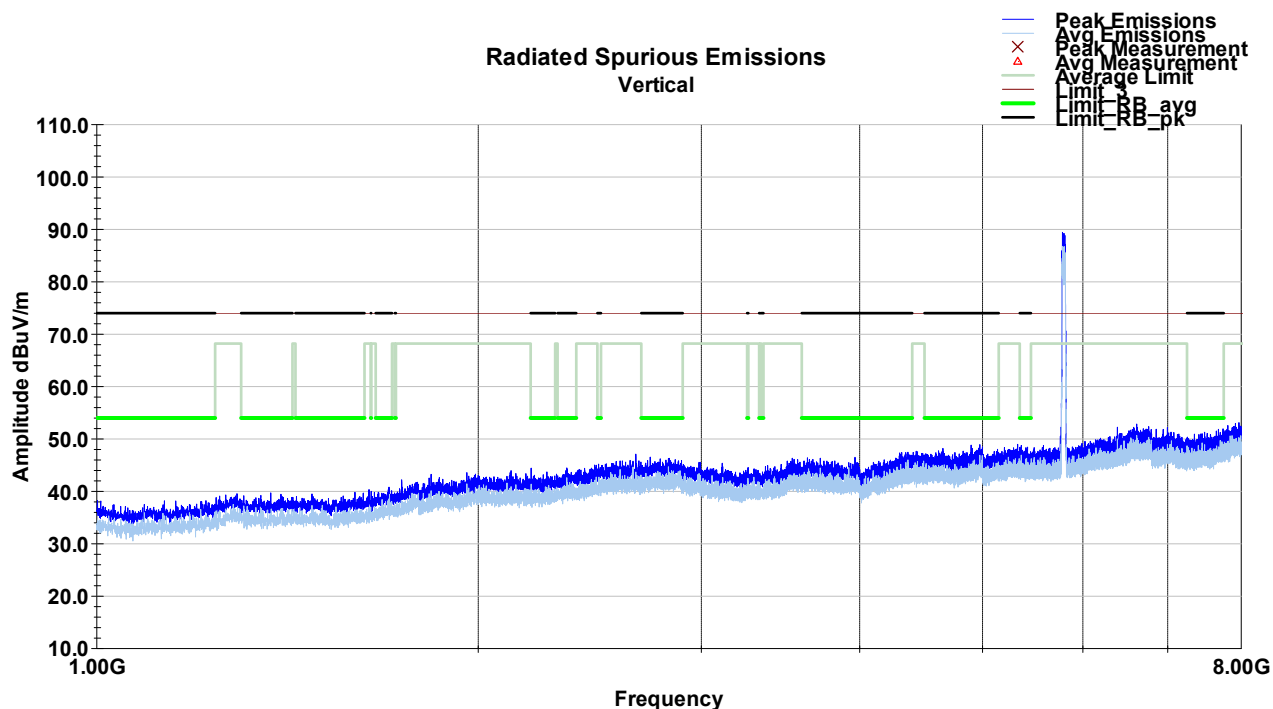
No discernible emissions detected from 1GHz – 8GHz.

WLAN 5GHz - 1-8 GHz – 802.11ac40 Ch. 110



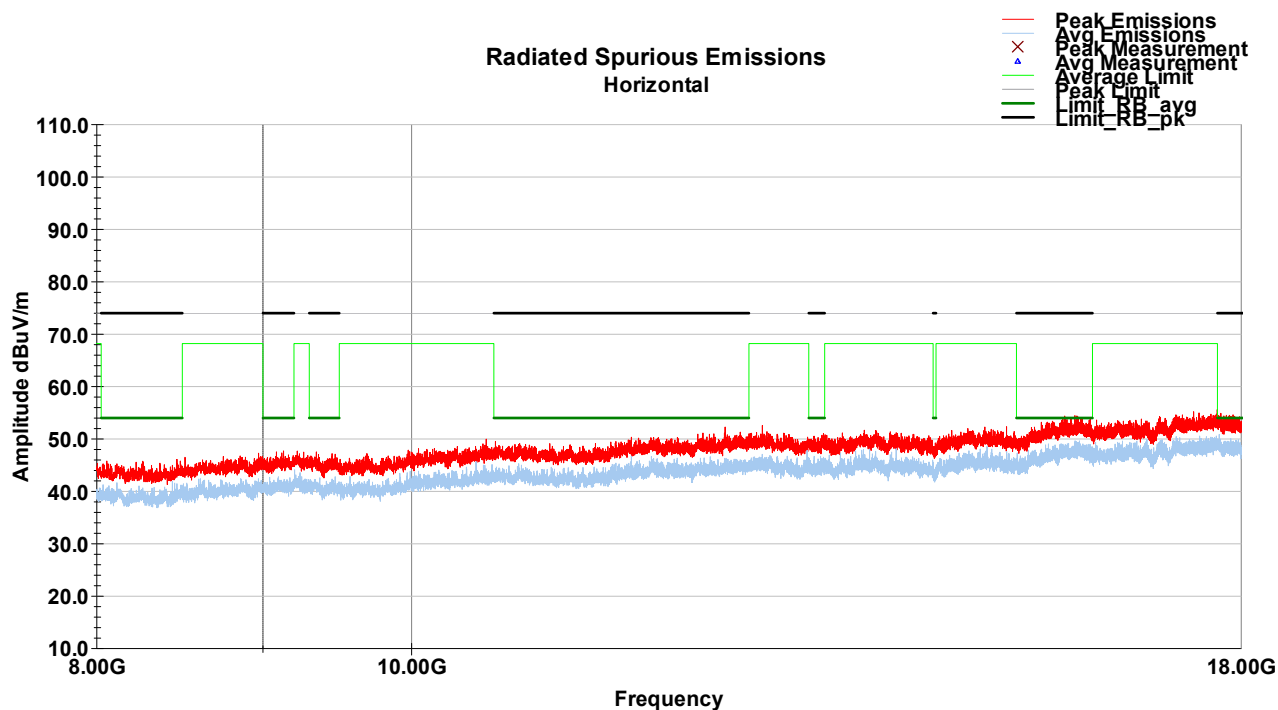
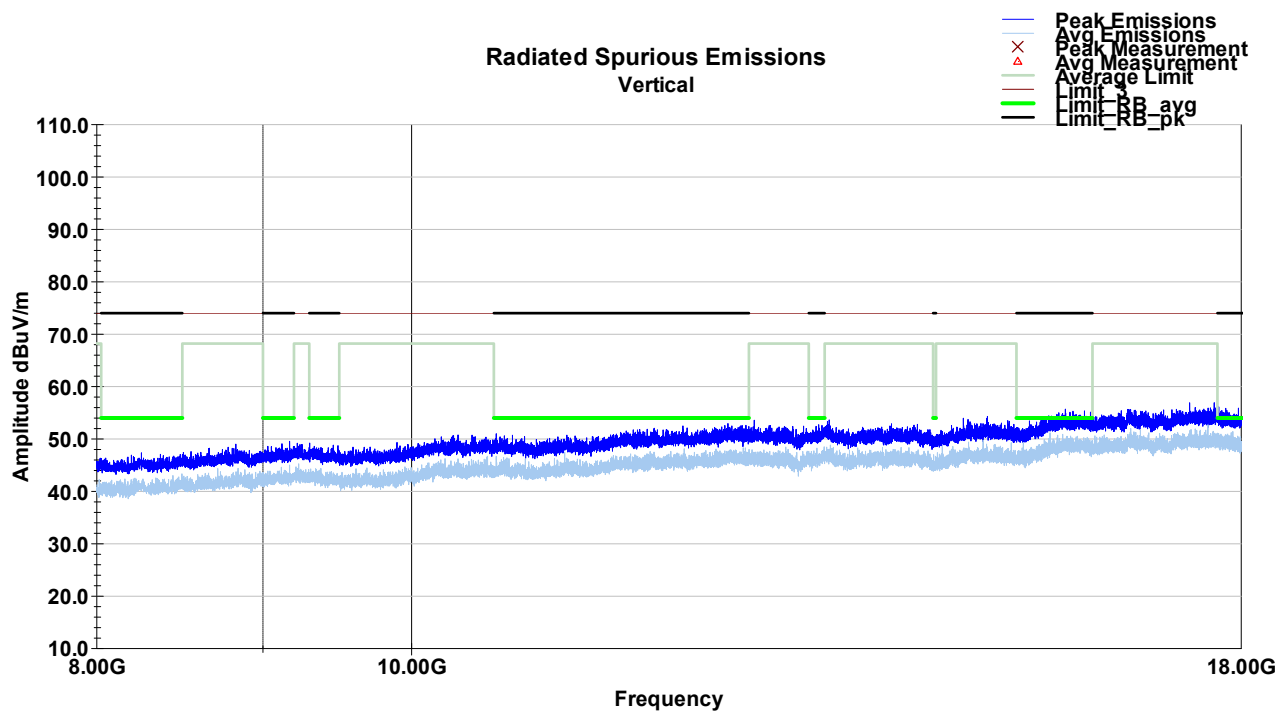
No discernible emissions detected from 1GHz – 8GHz.

WLAN 5GHz - 1-8 GHz – 802.11ac40 Ch. 159



No discernible emissions detected from 1GHz – 8GHz.

WLAN 5GHz - 8-18 GHz – 802.11ac40 Ch. 38



No discernible emissions detected from 8GHz – 18GHz.