

RADIATED SPURIOUS EMISSION TEST REPORT

Report Number: 103689808LEX-001
Project Number: G103689808

Report Issue Date: 10/19/2018

Product Name: Tait Unified Vehicle (R2.0)

FCC Standards: FCC Title 47 CFR Part 15.247
FCC Title 47 CFR Part 15.407
FCC Title 47 CFR Part 22
FCC Title 47 CFR Part 24
FCC Title 47 CFR Part 27

Industry Canada Standards: RSS-247 Issue 2 and RSS-Gen Issue 4
RSS-132 Issue 3
RSS-133 Issue 6
RSS-139 Issue 3

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1 Introduction and Conclusion

The tests indicated in section 2 were performed on the product constructed as described in section 3 in support of an FCC and ISED certification for the Tait Unified Vehicle (R2.0). The Texas Instruments module with FCCID Z64-WL18DMOD (ICID 451I-WL18DBMOD) and Telit LTE module with FCCID RI7LE910NAV2 (ICID 5131A-LE910NAV2) were both used inside this device . Radiated spurious emission testing was performed with these modules installed into a specific host while connected to antennas that were not originally part of the module filing. This report contains only radiated spurious emission results as Tait Communications has elected to utilize the module reports to show compliance with the conducted tests.

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 **was compliant** with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested.

The INTERTEK-Lexington is located at 731 Enterprise Drive, Lexington Kentucky, 40510. The radiated emission test site is a 10-meter semi-anechoic chamber. The chamber meets the characteristics of CISPR 16-1 and ANSI C63.4. For measurements, a remotely controlled flush-mount metal-top turntable is used to rotate the EUT a full 360 degrees. A remote controlled non-conductive antenna mast is used to scan the antenna height from one to four meters. The test site is listed with the FCC under registration number 485103. The test site is listed with Industry Canada under site number IC 2042M-1.

2 Test Summary

Page	Test full name	FCC Reference	IC Reference	Result
17	Radiated Spurious Emissions (Bluetooth and WiFi Transmitters)	§15.247(d) §15.407(b) (1-8)	RSS-247 (6.2.1) (6.2.2) (6.2.3)	Pass
84	Radiated Spurious Emissions (Cellular Transmitters)	§22.917, 24, 27	RSS-132, RSS-133, RSS-139	Pass
106	Radiated Spurious Emissions (Simultaneous Transmission)	§15.247(d) §15.407(b) (1-8) §22.917, 24, 27	RSS-247 (6.2.1) (6.2.2) (6.2.3) RSS-132, RSS-133, RSS-139	Pass
116	Radiated Spurious Emissions (Receiver)	§15.209	RSS-Gen (7.1.2)	Pass
119	Antenna Requirement per FCC Part 15.203	§15.203	RSS-Gen (8.3)	Pass

3 Description of Equipment Under Test

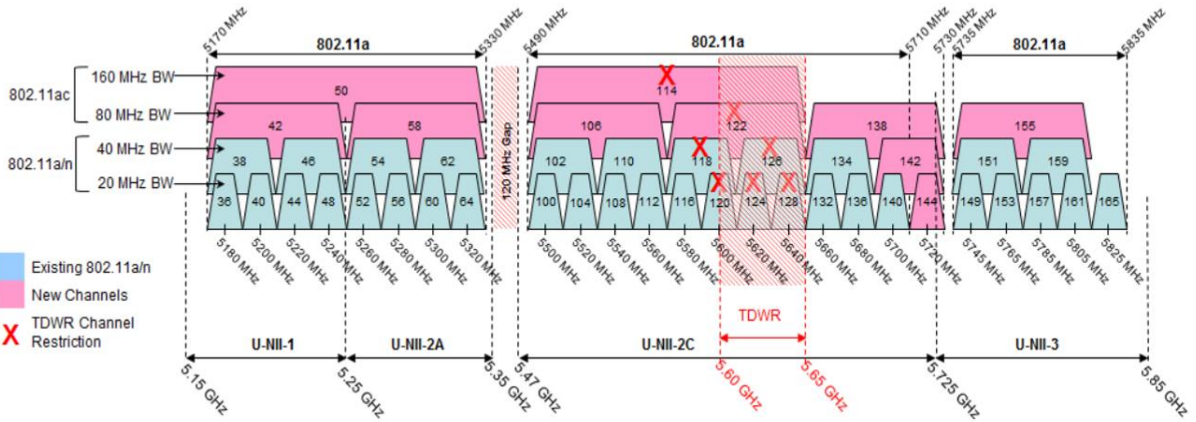
Equipment Under Test	
Product Name	Tait Unified Vehicle (R2.0)
Model Number	TUFM4B
Serial Number	20404039
Receive Date	9/20/2018
Test Start Date	9/21/2018
Test End Date	10/05/2018
Device Received Condition	Good
Test Sample Type	Production
Rated Voltage	10.8V – 16V DC
Rated Current	8A Maximum
Rated Frequency	DC
Number of Phases	DC
Description of Equipment Under Test (provided by client)	
<p>Tait Unified Vehicle(R2.0) is a companion product which can be installed into the front recess of a standard Tait TM9300/TM9400 mobile radio chassis.</p> <p>The platform hosts its own processor and expands the connectivity of the Tait LMR bearer by offering Bluetooth, WiFi (2.4G/5G) and Cellular bearers. 2G/3G/LTE are provided by a Mini PCIe card fitted to the sub-assembly. UMCC patch leads run to a plastic cover which clips over the product.</p> <p>SIM card access is gained by clipping off the front cover, unclipping the three internal UMCC patch leads, removing the two small screws securing the PCIe card and then disengaging the PCIe card from the connector. SMA connectors are provided for connection to a multi-bearer “Sharkee” antenna (GPSD-7-27-24-58-T). A standalone antenna is to be used for BT/WiFi (PC-Tel WLP2458NGP-T).</p> <p>Two RJ45 ports allow connection of a standard Tait Graphical Control Head or Hand Held Control Head (left port) and 100Mbit Ethernet connection (right port).</p> <p>Power is supplied by the mobile radio chassis which is nominally 13.8V. The Tait Unified Vehicle (R2.0) solution is LMR band agnostic as the LMR bearer is provided by the mobile radio chassis. The cabling for DC power and Ethernet interfaces may be greater than 3m. The product may be used in a fixed station scenario</p>	

3.1 Test Channels:

The following test channels were used during the evaluation:

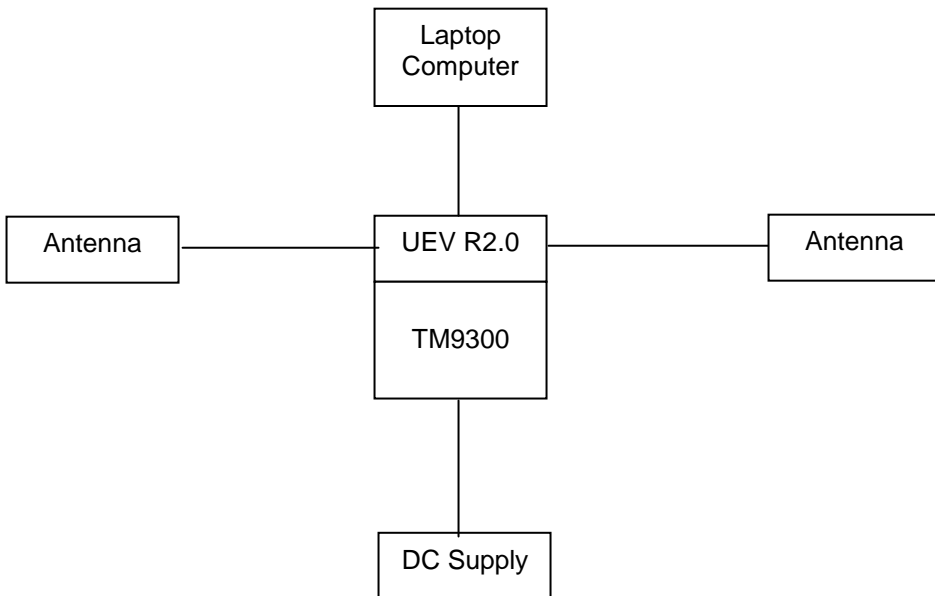
TX Mode	Band	TX Channels	TX Frequencies (MHz)
WCDMA Band 2	2	Low	1852.4
		Mid	1880
		high	1907.6
WCDMA Band 5	5	Low	826.4
		Mid	836
		high	846.6
LTE Band 2	2	Low	1855
		Mid	1880
		high	1905
LTE Band 4	4	Low	1732.5
		Mid	1732.5
		high	1750
LTE Band 5	5	Low	824
		Mid	836.5
		high	849
LTE Band 12	12	Low	699
		Mid	707.5
		high	716
LTE Band 13	13	Low	777
		Mid	782
		high	787
Bluetooth	2.4GHz	02, 40, 80	2402, 2440, 2480
802.11a	U-NII-1	36, 44, 48	5180, 5220, 5240
	U-NII-2A	52, 60, 64	5260, 5300, 5320
	U-NII-2C	100, 116, 140	5500, 5580, 5700
	U-NII-3	149, 157, 165	5745, 5785, 5825
802.11b	2.4GHz	1, 6, 11	2412, 2437, 2462
802.11g	2.4GHz	1, 6, 11	2412, 2437, 2462
802.11n (HT20)	2.4GHz	1, 6, 11	2412, 2437, 2462
	U-NII-1	36, 44, 48	5180, 5220, 5240
	U-NII-2A	52, 60, 64	5260, 5300, 5320
	U-NII-2C	100, 116, 140	5500, 5580, 5700
	U-NII-3	149, 157, 165	5745, 5785, 5825
802.11n (HT40)	2.4GHz	3, 7, 11	2422, 2442, 2462
	U-NII-1	38, 46	5190, 5230
	U-NII-2A	54, 62	5270, 5310
	U-NII-2C	102, 110, 134	5510, 5550, 5670
	U-NII-3	151, 159	5755, 5795

3.2 U-NII Bands / Channels:



4 System setup including cable interconnection details, support equipment and simplified block diagram

4.1 EUT Block Diagram:



4.2 Cables:

Cables					
ID	Description	Length (m)	Shielding	Ferrites	Termination
1	Ethernet	10m	No	None	Laptop Computer
2	Coaxial	2m	No	None	Antenna
3	Coaxial	2m	No	None	Antenna
4	Coaxial	2m	No	None	Antenna
5	Coaxial	2m	No	None	Antenna
6	DC Power	3m	No	None	DC Mains

4.3 Support Equipment:

Support Equipment			
Description	Manufacturer	Model Number	Serial Number
Laptop Computer	Toshiba	PTSE3A-OCC0K	1BQ25788H
TMBB1A	Tait Communications	TMBB1A	20404037

5 Spurious Emissions (Transmitter)

5.1 FCC Unwanted Emission Limits (Unlicensed Transmitters):

§ 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)).

§ 15.407(b): *Undesirable emission limits.* Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

(7) The provisions of §15.205 apply to intentional radiators operating under this section.

(8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

Part 15.205(a): Restricted Bands of Operations

MHz	MHz	MHz	GHz
0.090–0.110	16.42–16.423	399.9–410	4.5–5.15
10.495–0.505	16.69475–16.69525	608–614	5.35–5.46
2.1735–2.1905	16.80425–16.80475	960–1240	7.25–7.75
4.125–4.128	25.5–25.67	1300–1427	8.025–8.5
4.17725–4.17775	37.5–38.25	1435–1626.5	9.0–9.2
4.20725–4.20775	73–74.6	1645.5–1646.5	9.3–9.5
6.215–6.218	74.8–75.2	1660–1710	10.6–12.7
6.26775–6.26825	108–121.94	1718.8–1722.2	13.25–13.4
6.31175–6.31225	123–138	2200–2300	14.47–14.5
8.291–8.294	149.9–150.05	2310–2390	15.35–16.2
8.362–8.366	156.52475–156.52525	2483.5–2500	17.7–21.4
8.37625–8.38675	156.7–156.9	2655–2900	22.01–23.12
8.41425–8.41475	162.0125–167.17	3260–3267	23.6–24.0
12.29–12.293	167.72–173.2	3332–3339	31.2–31.8
12.51975–12.52025	240–285	3345.8–3358	36.43–36.5
12.57675–12.57725	322–335.4	3600–4400	(²)
13.36–13.41.			

¹ Until February 1, 1999, this restricted band shall be 0.490–0.510 MHz.

² Above 38.6

Part 15.209(a): Field Strength Limits for Restricted Bands of Operation

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 - 0.490	2,400 / F (kHz)	300
0.490 - 1.705	24,000 / F (kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

FCC 27.53, 22.917, and 24.238:

The power of any frequency outside the authorized frequency range shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. This is equivalent to a -13dBm limit.

5.2 ISED Unwanted Emission Limits:

Unwanted emission limits (2400 – 2483.5MHz Band)

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.

Unwanted emission limits (5150 – 5250MHz Band)

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth (i.e. 99% bandwidth), above 5250 MHz. The 26 dB bandwidth may fall into the 5250-5350 MHz band; however, if the occupied bandwidth also falls within the 5250-5350 MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5250-5350 MHz including implementing dynamic frequency selection (DFS) and TPC, on the portion of the emission that resides in the 5250-5350 MHz band.

Unwanted emission limits (5250 – 5350MHz Band)

Devices shall comply with the following:

a) All emissions outside the band 5250-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.; or

b) All emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. and its power shall comply with the spectral power density for operation within the band 5150-5250 MHz. The device, except devices installed in vehicles, shall be labelled or include in the user manual the following text “for indoor use only.”

Unwanted emission limits (5470 – 5725MHz Band)

Emissions outside the band 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, devices with bandwidth overlapping the band edge of 5725 MHz can meet the emission limit of -27 dBm/MHz e.i.r.p. at 5850 MHz instead of 5725 MHz.

Unwanted emission limits (5725 – 5850MHz Band)

Devices operating in the band 5725-5850 MHz with antenna gain greater than 10 dBi can have unwanted emissions that comply with either the limits in this section or in section 5.5 until six (6) months after the publication date of this standard for certification. Certified devices that do not comply with emission limits in this section shall not be manufactured, imported, distributed, leased, offered for sale or sold after April 1, 2018.

Devices operating in the band 5725-5850 MHz with antenna gain of 10 dBi or less can have unwanted emissions that comply with either the limits in this section or in section 5.5 until April 1, 2018 for certification. Certified devices that do not comply with emission limits in this section shall not be manufactured, imported, distributed, leased, offered for sale or sold after April 1, 2020.

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;

b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;

c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and

d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

RSS-132 (5.5), RSS-133 (6.5), RSS-139:

The power of any frequency outside the authorized frequency range shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. This is equivalent to a -13dBm limit.

5.3 Test Procedure:

ANSI C63.10: 2013 (unlicensed radios)

ANSI C63.26: 2015 (licensed radios)

5.4 Example of Field Strength Calculation Method:

The measured field strength was calculated by summing the readings taken from the spectrum analyzer with the appropriate correction factors associated with the antenna losses and cable losses. The calculation formula and sample calculations are listed below:

Formula:

$$FS = RA + AF + CF$$

FS = Field Strength in dB μ V/m

RA = Receiver Amplitude in dB μ V

AF = Antenna Factor in dB

CF = Cable Attenuation Factor in dB (Including preamplifier and filter attenuation)

Example Calculation:

$$RA = 19.48 \text{ dB}\mu\text{V}$$

$$AF = 18.52 \text{ dB}$$

$$CF = 0.78 \text{ dB}$$

$$FS = 19.48 + 18.52 + 0.78 = 38.78 \text{ dB}\mu\text{V/m}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(38.78 \text{ dB}\mu\text{V/m})/20] = 86.89 \mu\text{V/m}$$

Conversion of Field Strength to EIRP at 3m is done by applying equation 39 from ANSIC63.10-2013.

$$\text{EIRP[dBm]} = E[\text{dB}\mu\text{V/m}] - 95.2$$

Or by re-arranging this equation, the limit in dB μ V/m at 3m can be computed from the -27dBm/MHz EIRP limit as follows

$$\text{Limit}[\text{dB}\mu\text{V/m}] = -27\text{dBm/MHz} + 95.2 = 68.2\text{dB}\mu\text{V/m}$$

5.5 Test Equipment Used:

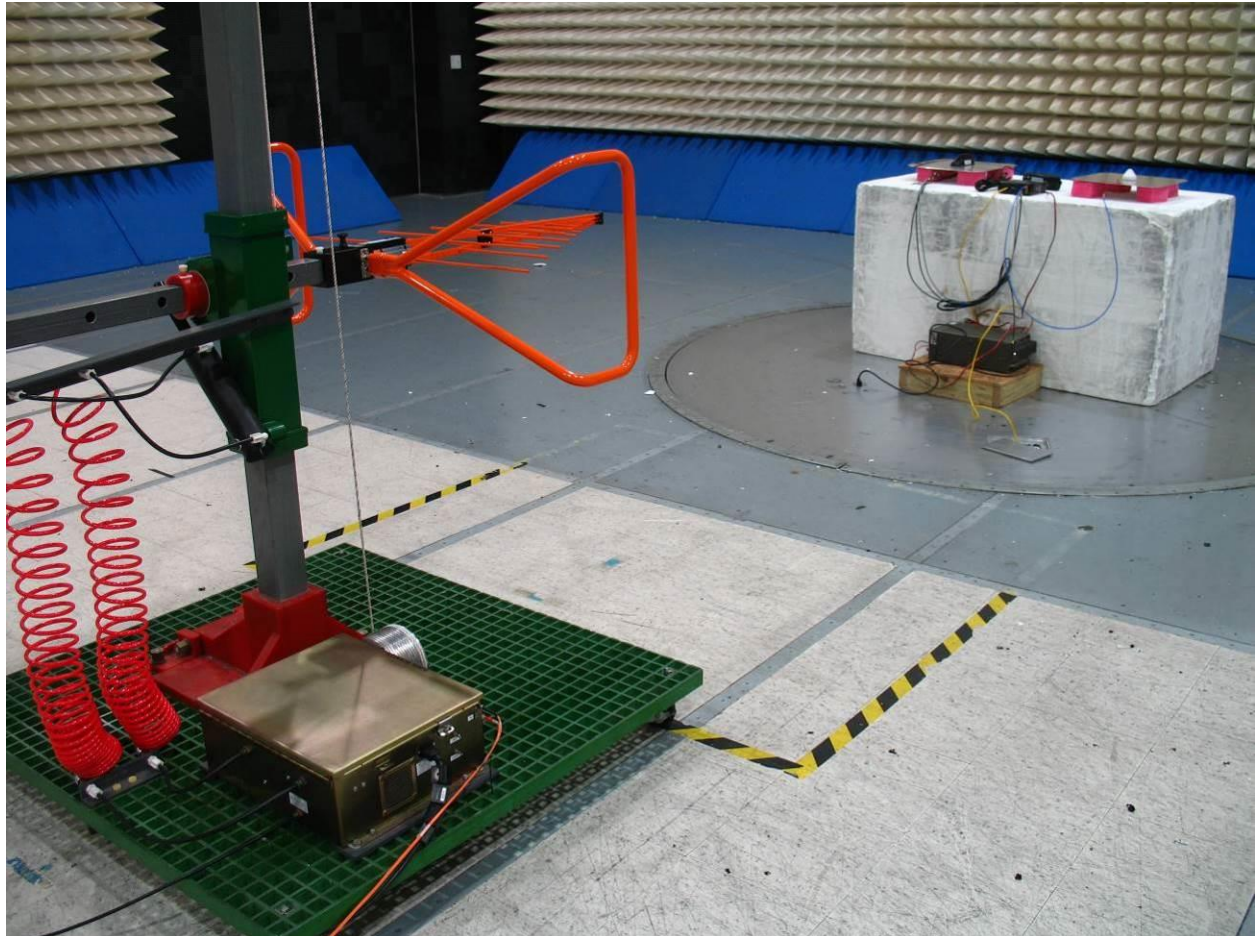
Description	Asset	Manufacturer	Model	Cal Date	Cal Due
EMI Test Receiver	3900	Rohde&Schwarz	ESU40	9/20/2017	9/20/2018
Bilog Antenna(JB6)	7088	SunAR	JB6	7/24/2018	7/24/2019
Horn Antenna	3780	ETS Lindgren	3117	6/1/2018	6/1/2019
Horn Antenna (18 - 40GHz)	3779	ETS	3116c	6/5/2018	6/5/2019
Preamplifier	3921	Rohde&Schwarz	TS-PR40	12/1/2018	12/1/2018
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			11/29/2017	11/29/2018
3m Cable Preamplifier	3918	TS-PR18	122005	11/29/2017	11/29/2018
3m Cable Preamp→Chamber	2588			11/29/2017	11/29/2018
3m Cable Chamber→Control Room	2593			11/29/2017	11/29/2018
3m Cable Control Room→Receiver	2592			11/29/2017	11/29/2018

5.6 Test Conditions:

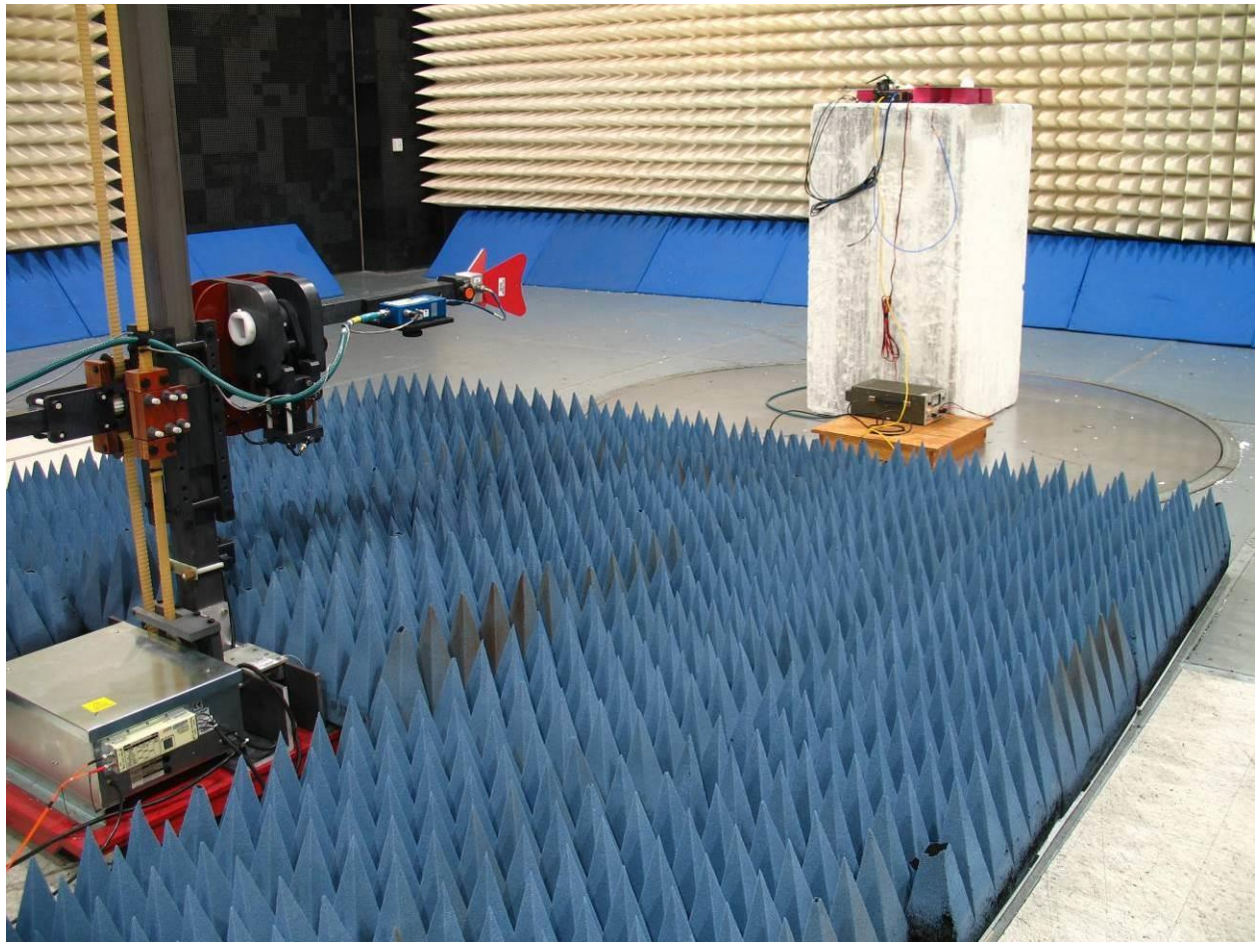
Test Personnel: Michael Carlson
 Supervising/Reviewing
 Engineer:
 (Where Applicable) NA
 Input Voltage: 12VDC

Test Date: 9/21/2018-10/10/2018
 Ambient Temperature: 23.3C
 Relative Humidity: 46.7%
 Atmospheric Pressure: 985.4mbar

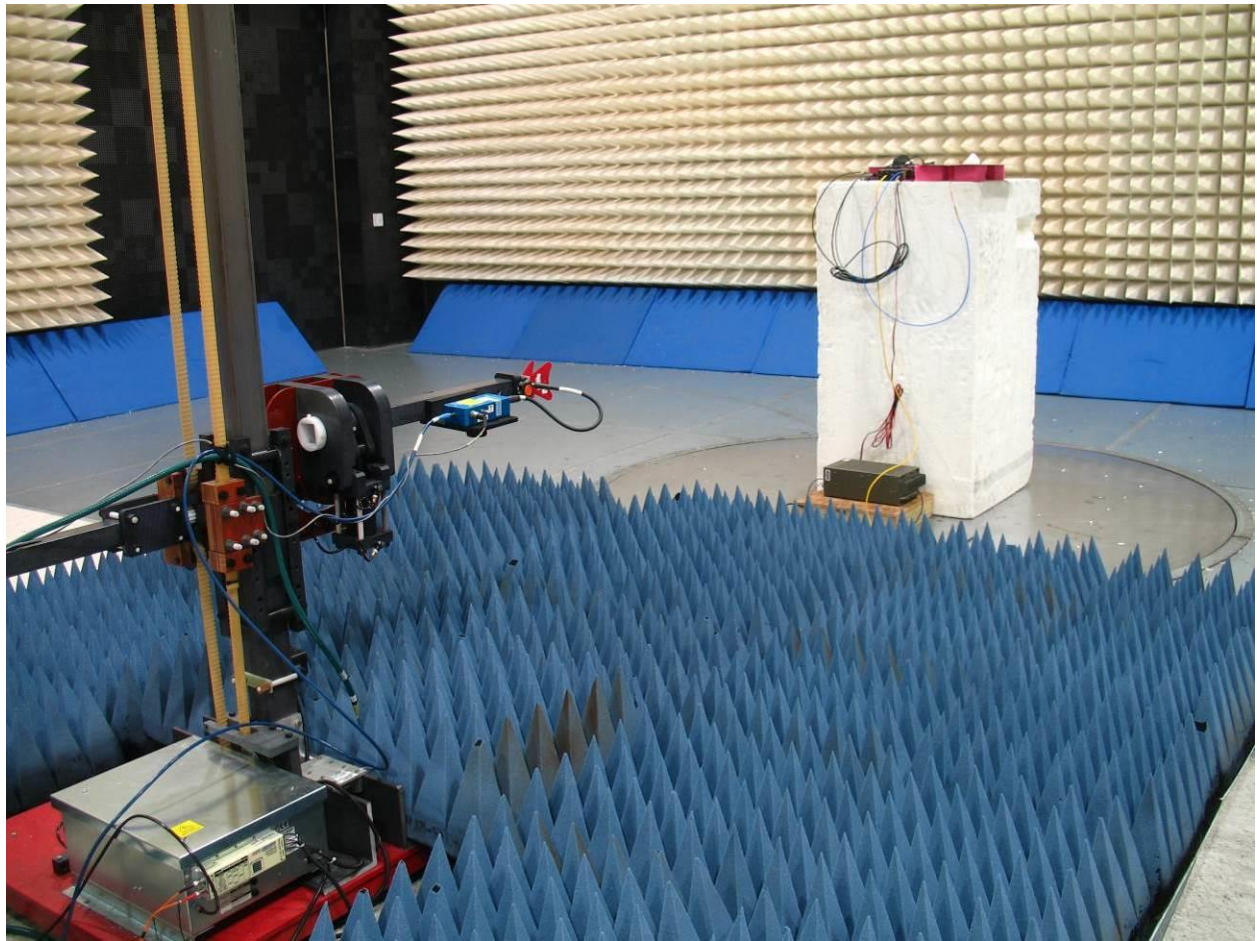
5.7 Test Setup Photos:



Bilog .03-1GHz



Horn 1-18GHz



Horn 18-40GHz

5.8 Test Results (Bluetooth and WiFi Spurious Emissions):

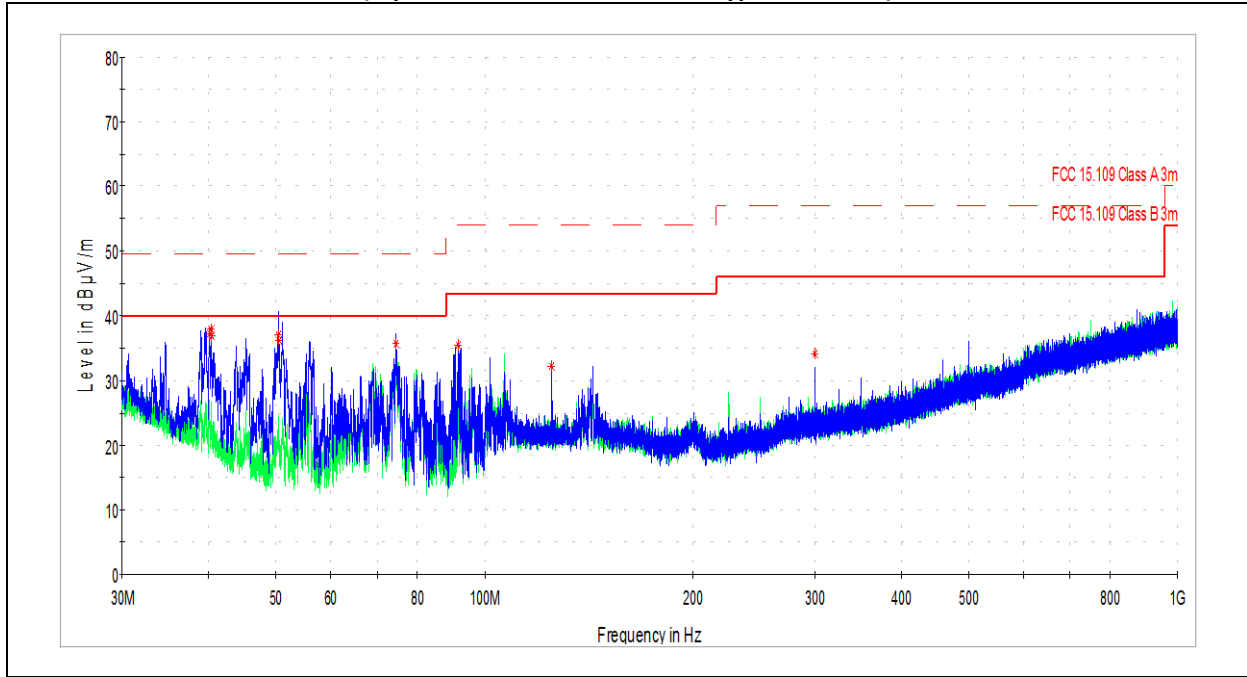
The device was found to be **compliant** with the radiated spurious emission limits from FCC Part 15.247, FCC Part 15.407, and RSS-247. All spurious emissions were below the -27dBm/MHz limit from FCC 15.247, FCC 15.407, and RSS-247 (68.2dBuV/m at 3m). Additionally, all emissions falling within restricted bands of operation and at the band edges were found to be below the limit specified in Part 15.209(a). The spurious emissions listed in the following tables are the worst case emissions. Emissions were investigated with the test sample positioned in 3 orthogonal axis and the worst case reported.

The device was also found to be **compliant** with the radiated spurious emission limits from FCC Part 22, FCC Part 24, FCC Part 27, RSS-132, RSS-133, RSS-139.

30MHz – 1GHz Radiated Emissions

Bluetooth, 2EDR, Mid Channel

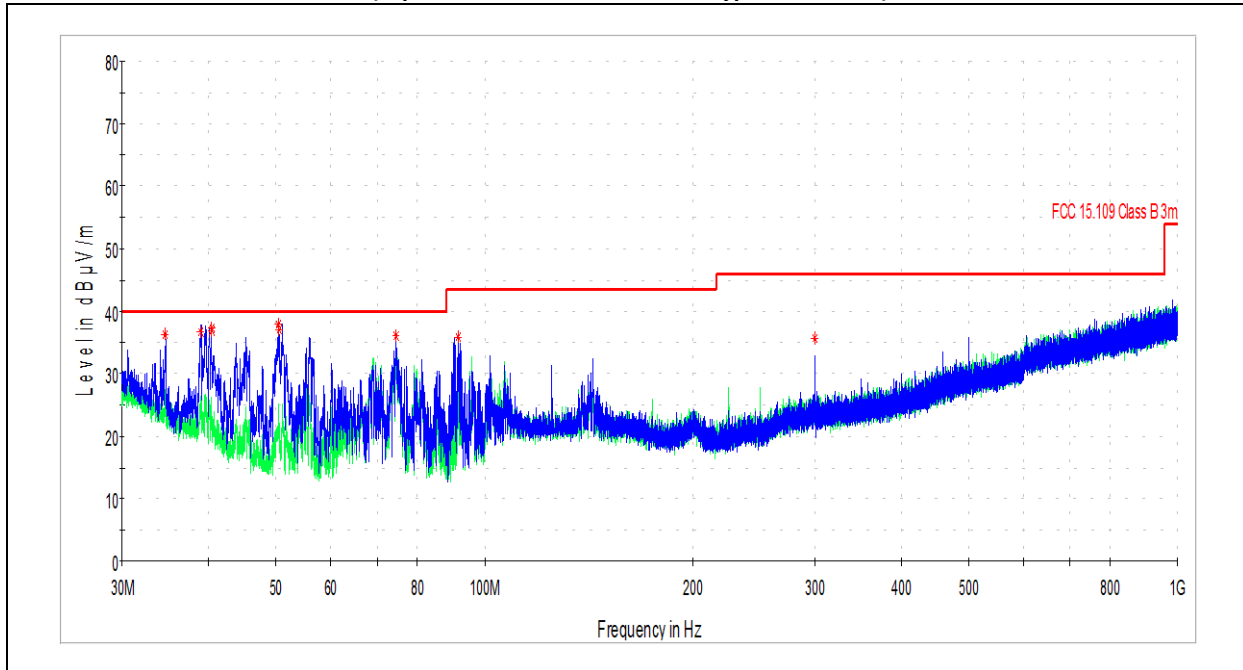
(representative of all Bluetooth types/channels)



Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
40.094000	37.24	40.00	2.76	120.000	100.4	V	166.0	20.0
40.339000	37.96	40.00	2.04	120.000	100.2	V	164.0	19.8
40.358000	36.83	40.00	3.17	120.000	100.2	V	137.0	19.8
50.407000	37.02	40.00	2.98	120.000	100.6	V	238.0	15.1
50.470000	36.26	40.00	3.74	120.000	105.9	V	193.0	15.0
74.555000	35.62	40.00	4.38	120.000	118.5	V	28.0	15.3
91.540000	35.46	43.52	8.06	120.000	100.2	V	36.0	16.0
124.960000	32.24	43.52	11.28	120.000	99.7	V	340.0	21.7
300.040000	34.06	46.02	11.96	120.000	100.6	V	36.0	23.2

2.4 Wi-Fi, 802.11B, Mid Channel

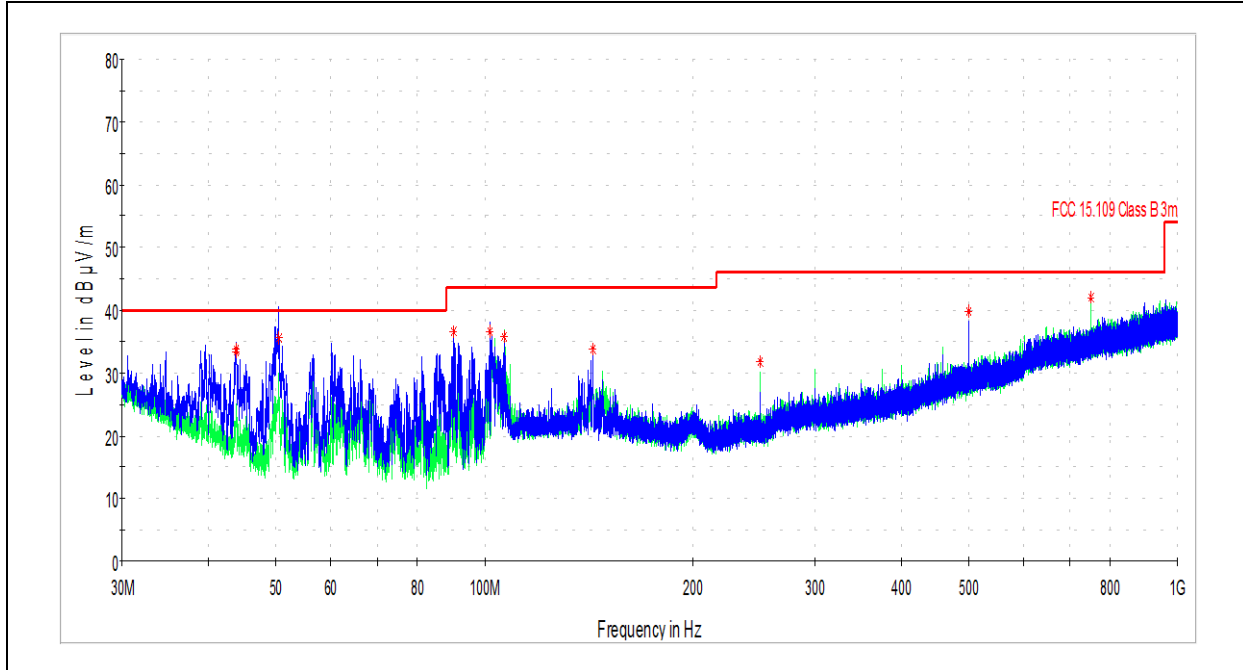
(representative of all 2.4 Wi-Fi types/channels)



Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
34.628000	36.28	40.00	3.72	120.000	105.5	V	332.0	23.4
38.946000	36.76	40.00	3.24	120.000	110.2	V	146.0	20.7
40.348000	36.88	40.00	3.12	120.000	104.8	V	137.0	19.8
40.360000	37.30	40.00	2.70	120.000	105.0	V	137.0	19.8
50.435000	37.87	40.00	2.13	120.000	110.1	V	210.0	15.0
50.480000	37.09	40.00	2.91	120.000	104.7	V	212.0	15.0
74.569000	36.11	40.00	3.89	120.000	105.2	V	0.0	15.3
91.549000	35.92	43.52	7.60	120.000	106.0	V	46.0	16.0
300.000000	35.66	46.02	10.36	120.000	100.2	V	46.0	23.2

U-NII-1, 802.11A, Mid Channel

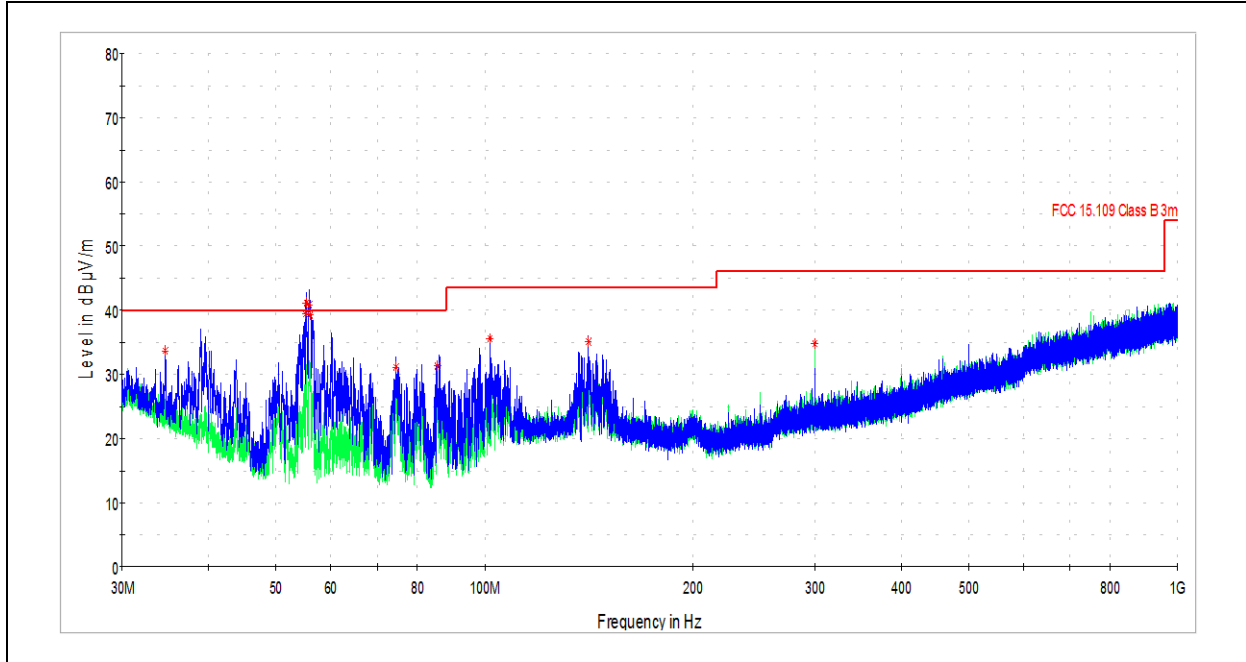
(representative of all U-NII-1 types/channels)



Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
43.804000	33.37	40.00	6.63	120.000	106.6	V	73.0	17.7
43.831000	33.75	40.00	6.25	120.000	100.8	V	64.0	17.6
50.480000	35.52	40.00	4.48	120.000	100.6	V	54.0	15.0
90.350000	36.58	43.52	6.94	120.000	118.6	V	234.0	15.7
101.860000	36.58	43.52	6.94	120.000	100.5	V	222.0	18.9
106.720000	35.70	43.52	7.82	120.000	261.1	H	92.0	20.1
143.280000	33.79	43.52	9.73	120.000	100.5	V	0.0	21.1
250.020000	31.82	46.02	14.20	120.000	99.7	H	268.0	20.7
500.000000	39.78	46.02	6.24	120.000	100.5	V	348.0	28.4
750.060000	41.92	46.02	4.10	120.000	213.2	H	109.0	32.6

U-NII-2A, 802.11A, Mid Channel

(representative of all U-NII-2A types/channels)

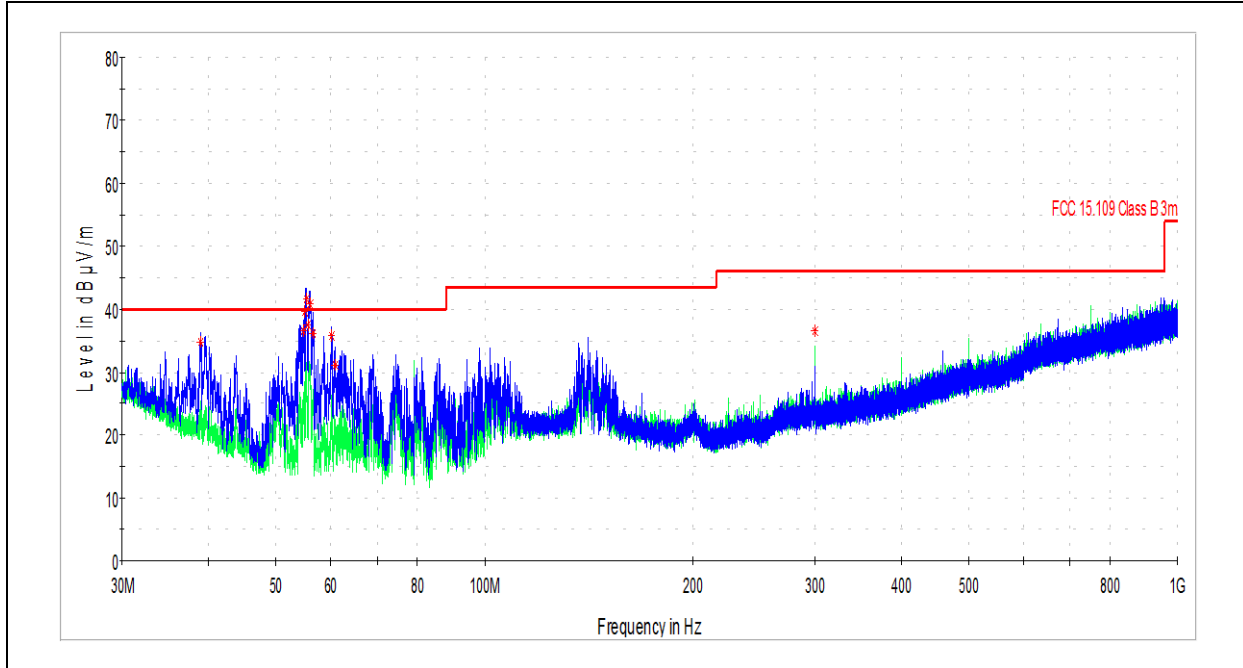


Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
34.607000	33.63	40.00	6.37	120.000	109.9	V	11.0	23.5
55.264000	39.38	40.00	0.62	120.000	105.5	V	194.0	14.7
55.291000	41.19	40.00	-1.19	120.000	106.6	V	174.0	14.7
55.873000	40.76	40.00	-0.76	120.000	104.9	V	164.0	14.7
55.999000	39.22	40.00	0.78	120.000	118.0	V	194.0	14.7
74.550000	31.09	40.00	8.91	120.000	129.4	V	0.0	15.3
85.482000	31.23	40.00	8.77	120.000	109.8	V	210.0	15.0
101.900000	35.50	43.52	8.02	120.000	100.3	V	249.0	19.0
141.160000	35.15	43.52	8.37	120.000	100.3	V	202.0	21.2
300.040000	34.75	46.02	11.27	120.000	104.9	H	92.0	23.2

Frequencies that exceed the limit above are not located in the restricted band and are still passing based on §15.247(d) limit, highest level output power -20dB.

U-NII-2C, 802.11A, Mid Channel

(representative of all U-NII-2C types/channels)

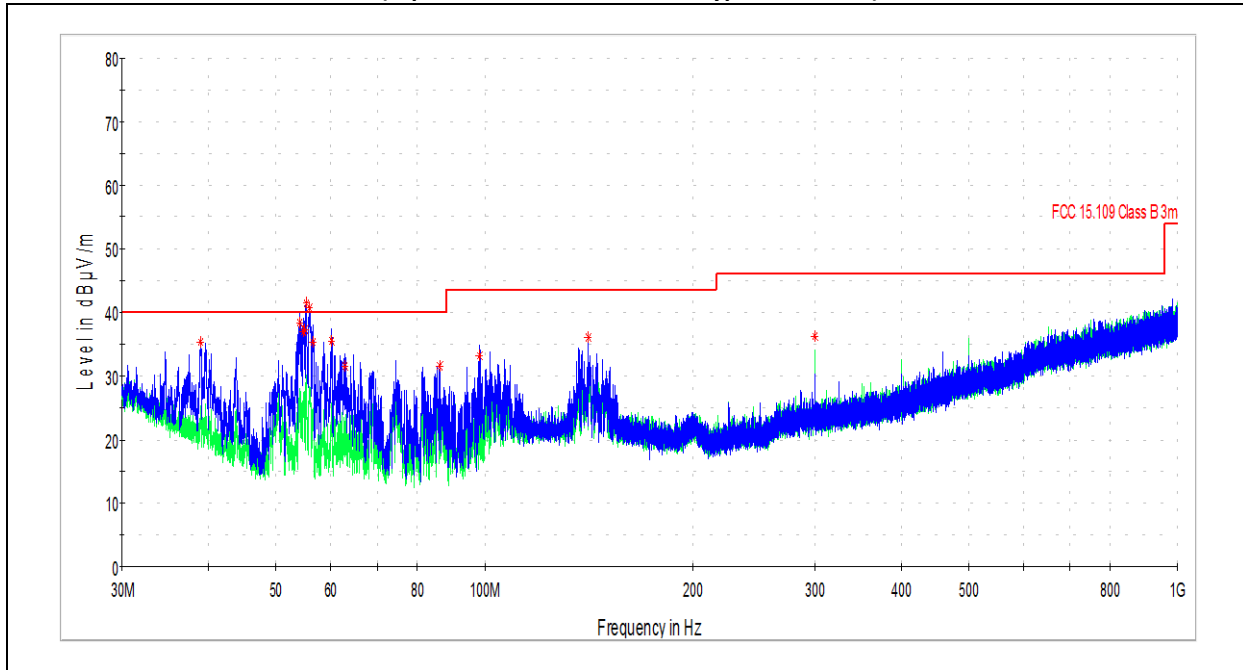


Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
38.925000	34.76	40.00	5.24	120.000	105.3	V	82.0	20.7
54.787000	36.56	40.00	3.44	120.000	107.1	V	175.0	14.7
55.046000	39.56	40.00	0.44	120.000	100.1	V	237.0	14.7
55.298000	41.46	40.00	-1.46	120.000	107.0	V	166.0	14.7
55.606000	37.39	40.00	2.61	120.000	105.2	V	202.0	14.7
56.012000	40.84	40.00	-0.84	120.000	100.3	V	212.0	14.7
56.544000	36.06	40.00	3.94	120.000	99.9	V	202.0	14.7
60.219000	35.67	40.00	4.33	120.000	106.4	V	185.0	15.0
60.842000	30.98	40.00	9.02	120.000	100.1	V	183.0	15.0
300.020000	36.47	46.02	9.55	120.000	100.2	H	100.0	23.2

Frequencies that exceed the limit above are not located in the restricted band and are still passing based on §15.247(d) limit, highest level output power -20dB.

U-NII-3, 802.11A, Mid Channel

(representative of all U-NII-3 types/channels)

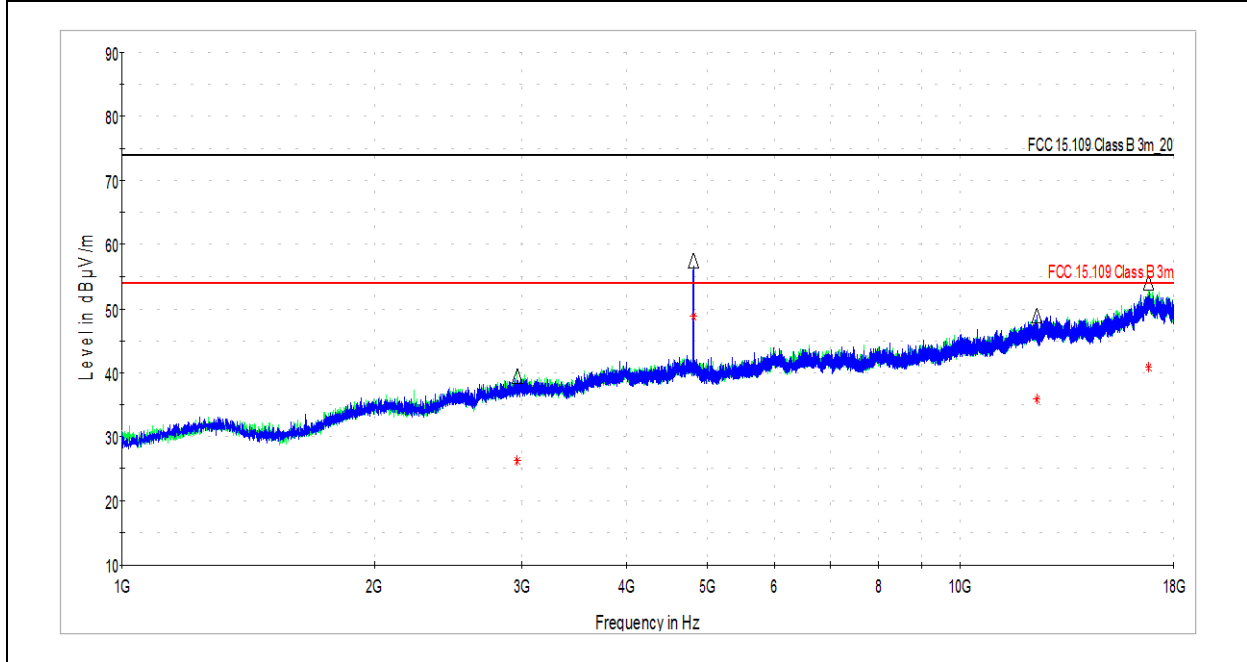


Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
38.953000	35.41	40.00	4.59	120.000	105.2	V	82.0	20.7
54.164000	38.34	40.00	1.66	120.000	99.9	V	230.0	14.7
54.780000	37.04	40.00	2.96	120.000	100.2	V	185.0	14.7
55.039000	37.26	40.00	2.74	120.000	106.7	V	175.0	14.7
56.516000	35.27	40.00	4.73	120.000	105.1	V	182.0	14.7
60.226000	35.51	40.00	4.49	120.000	106.3	V	192.0	15.0
62.963000	31.64	40.00	8.36	120.000	104.9	V	183.0	15.2
86.063000	31.62	40.00	8.38	120.000	110.1	V	209.0	15.0
98.439000	33.27	43.52	10.25	120.000	107.1	V	313.0	18.0
141.220000	36.02	43.52	7.50	120.000	100.0	V	210.0	21.2
300.000000	36.30	46.02	9.72	120.000	99.9	H	73.0	23.2

Frequencies that exceed the limit above are not located in the restricted band and are still passing based on §15.247(d) limit, highest level output power -20dB.

1-18GHz Radiated Emissions

Bluetooth, 2EDR, Low Channel



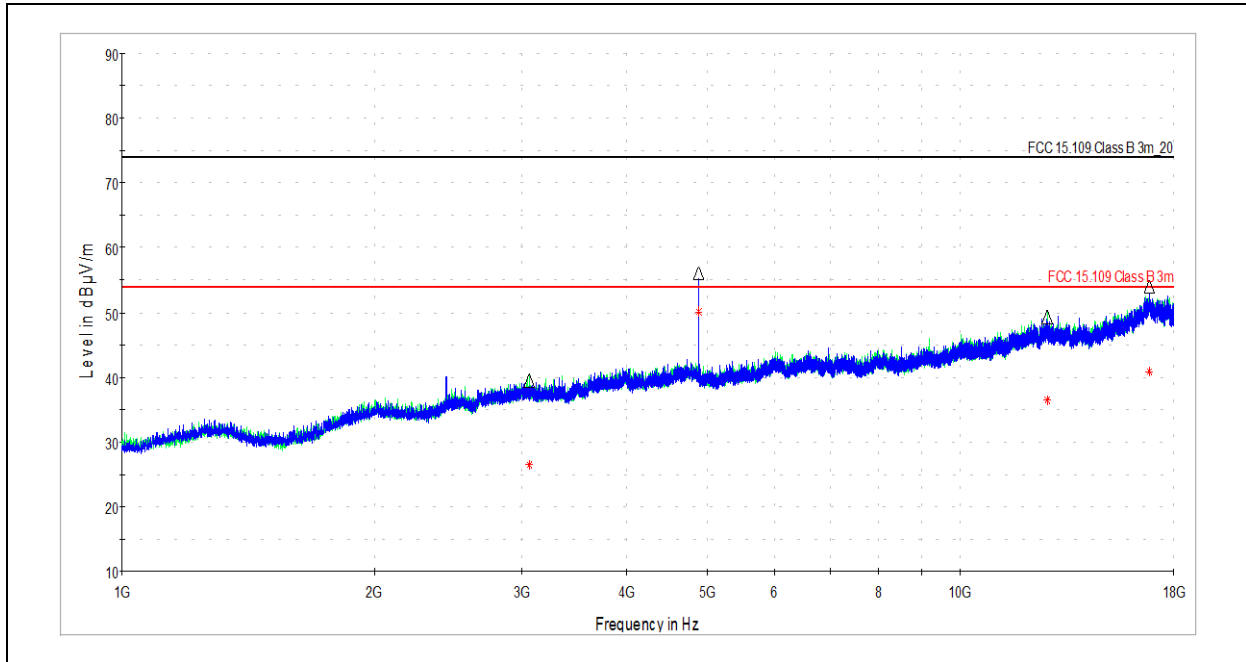
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2962.500000	39.42	74.00	34.58	1000.000	410.0	H	178.0	4.2
4803.500000	57.49	74.00	16.51	1000.000	218.0	V	80.0	7.3
12344.500000	48.93	74.00	25.07	1000.000	410.0	V	0.0	16.3
16811.500000	54.11	74.00	19.89	1000.000	410.0	H	180.0	21.7

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2962.500000	26.19	54.00	27.81	1000.000	410.0	H	178.0	4.2
4803.500000	48.81	54.00	5.19	1000.000	218.0	V	80.0	7.3
12344.500000	35.76	54.00	18.24	1000.000	410.0	V	0.0	16.3
16811.500000	40.89	54.00	13.11	1000.000	410.0	H	180.0	21.7

Bluetooth, 2EDR, Mid Channel



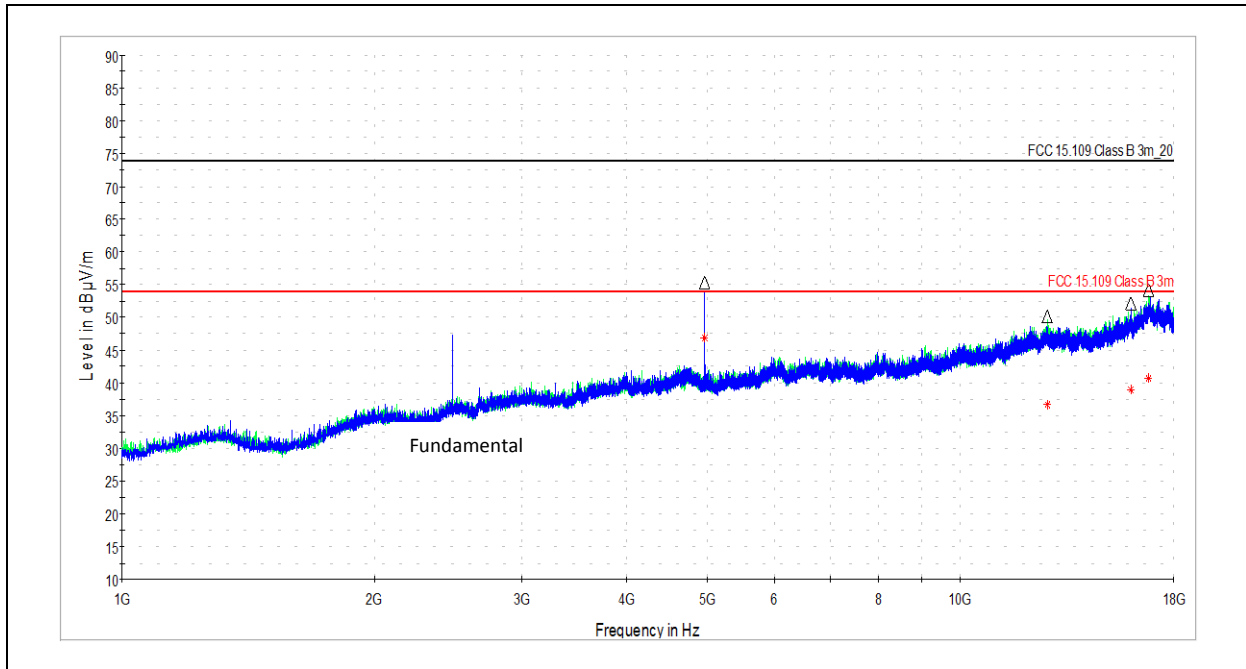
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3062.500000	39.54	74.00	34.46	1000.000	410.0	H	36.0	4.6
4880.000000	56.10	74.00	17.90	1000.000	251.0	V	83.0	6.8
12711.000000	49.32	74.00	24.68	1000.000	410.0	H	0.0	17.0
16837.500000	54.02	74.00	19.98	1000.000	410.0	V	67.0	21.8

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3062.500000	26.42	54.00	27.58	1000.000	410.0	H	36.0	4.6
4880.000000	50.02	54.00	3.98	1000.000	251.0	V	83.0	6.8
12711.000000	36.53	54.00	17.47	1000.000	410.0	H	0.0	17.0
16837.500000	40.81	54.00	13.19	1000.000	410.0	V	67.0	21.8

Bluetooth, 2EDR, High Channel



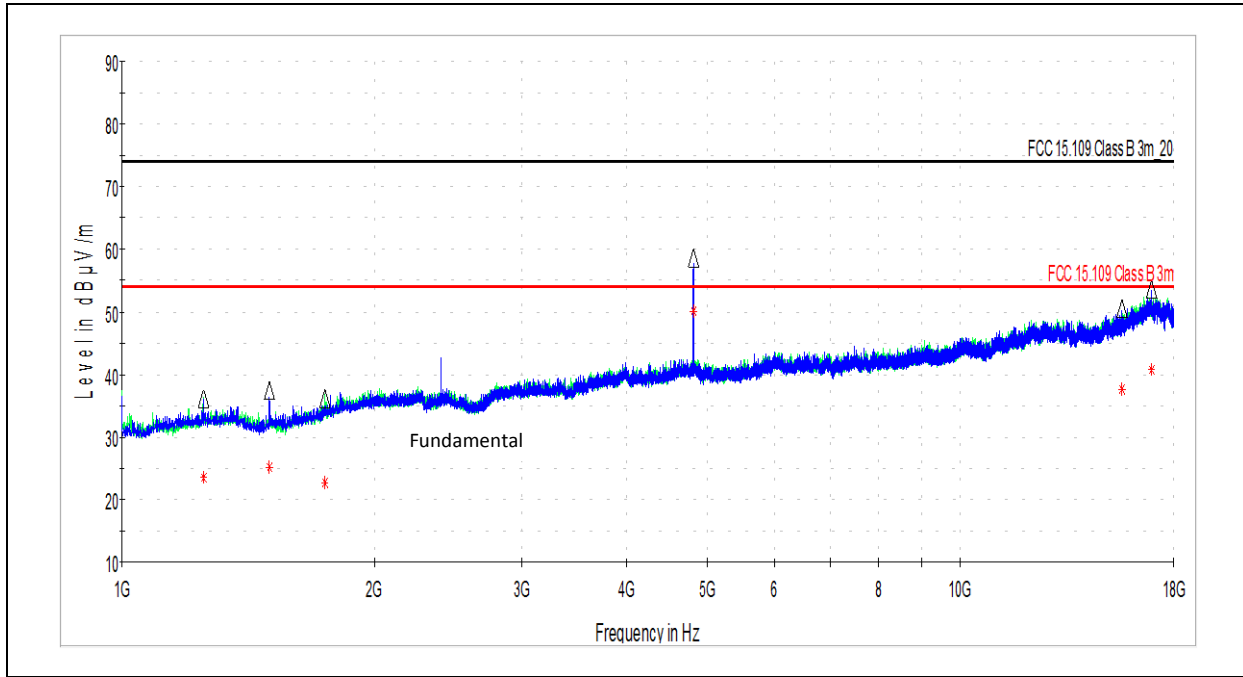
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4959.500000	55.35	74.00	18.65	1000.000	236.0	V	82.0	6.6
12714.500000	50.09	74.00	23.91	1000.000	391.0	H	208.0	17.0
15992.000000	52.19	74.00	21.81	1000.000	410.0	V	200.0	20.5
16793.000000	54.14	74.00	19.86	1000.000	410.0	H	207.0	21.6

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4959.500000	46.82	54.00	7.18	1000.000	236.0	V	82.0	6.6
12714.500000	36.67	54.00	17.33	1000.000	391.0	H	208.0	17.0
15992.000000	38.98	54.00	15.02	1000.000	410.0	V	200.0	20.5
16793.000000	40.74	54.00	13.26	1000.000	410.0	H	207.0	21.6

Bluetooth, 3EDR, Low Channel



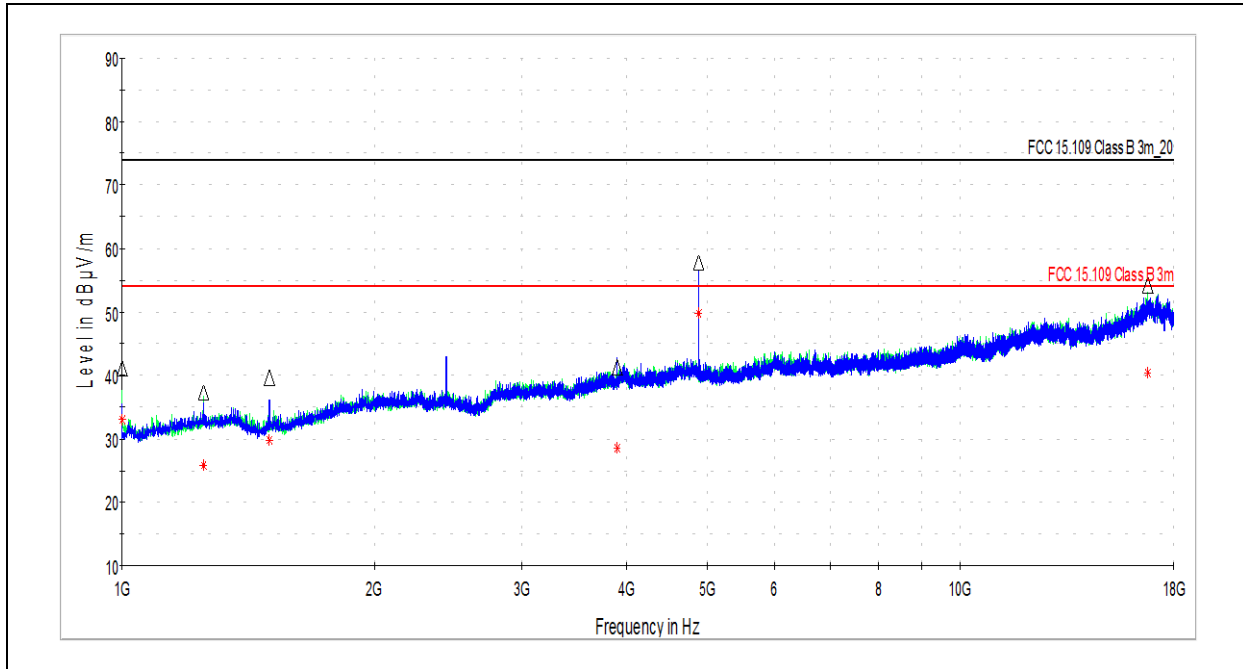
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1249.500000	36.11	74.00	37.89	1000.000	201.0	H	284.0	-1.4
1499.500000	37.40	74.00	36.60	1000.000	261.0	V	322.0	-2.1
1745.500000	36.23	74.00	37.77	1000.000	134.0	H	316.0	0.0
4804.500000	58.71	74.00	15.29	1000.000	245.0	V	250.0	7.3
15610.500000	50.44	74.00	23.56	1000.000	410.0	V	322.0	18.8
16923.000000	53.73	74.00	20.27	1000.000	100.0	V	164.0	21.8

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1249.500000	23.55	54.00	30.45	1000.000	201.0	H	284.0	-1.4
1499.500000	25.10	54.00	28.90	1000.000	261.0	V	322.0	-2.1
1745.500000	22.74	54.00	31.26	1000.000	134.0	H	316.0	0.0
4804.500000	50.19	54.00	3.81	1000.000	245.0	V	250.0	7.3
15610.500000	37.55	54.00	16.45	1000.000	410.0	V	322.0	18.8
16923.000000	40.65	54.00	13.35	1000.000	100.0	V	164.0	21.8

Bluetooth, 3EDR, Mid Channel



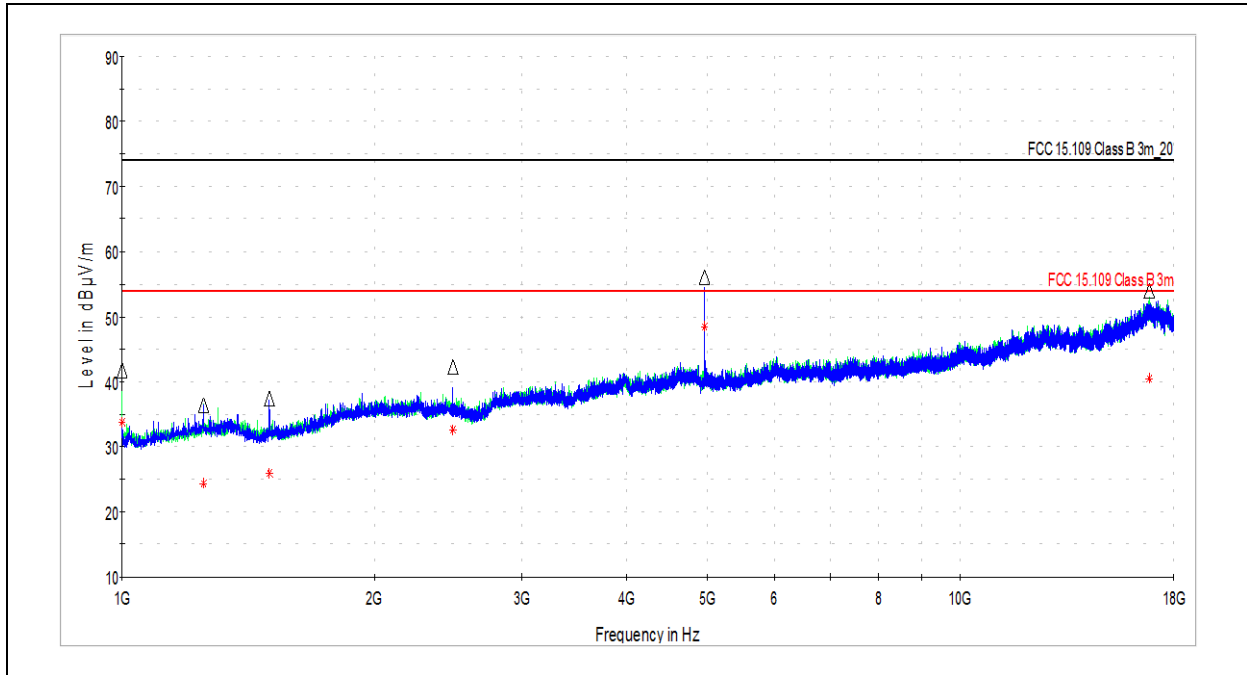
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	41.10	74.00	32.90	1000.000	271.0	H	292.0	-3.0
1249.500000	37.40	74.00	36.60	1000.000	193.0	H	290.0	-1.4
1500.000000	39.59	74.00	34.41	1000.000	277.0	V	329.0	-2.1
3895.500000	41.35	74.00	32.65	1000.000	410.0	V	0.0	6.1
4880.500000	57.77	74.00	16.23	1000.000	222.0	V	268.0	6.8
16754.500000	54.31	74.00	19.69	1000.000	100.0	H	0.0	21.4

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	32.94	54.00	21.06	1000.000	271.0	H	292.0	-3.0
1249.500000	25.83	54.00	28.17	1000.000	193.0	H	290.0	-1.4
1500.000000	29.81	54.00	24.19	1000.000	277.0	V	329.0	-2.1
3895.500000	28.50	54.00	25.50	1000.000	410.0	V	0.0	6.1
4880.500000	49.65	54.00	4.35	1000.000	222.0	V	268.0	6.8
16754.500000	40.32	54.00	13.68	1000.000	100.0	H	0.0	21.4

Bluetooth, 3EDR, High Channel



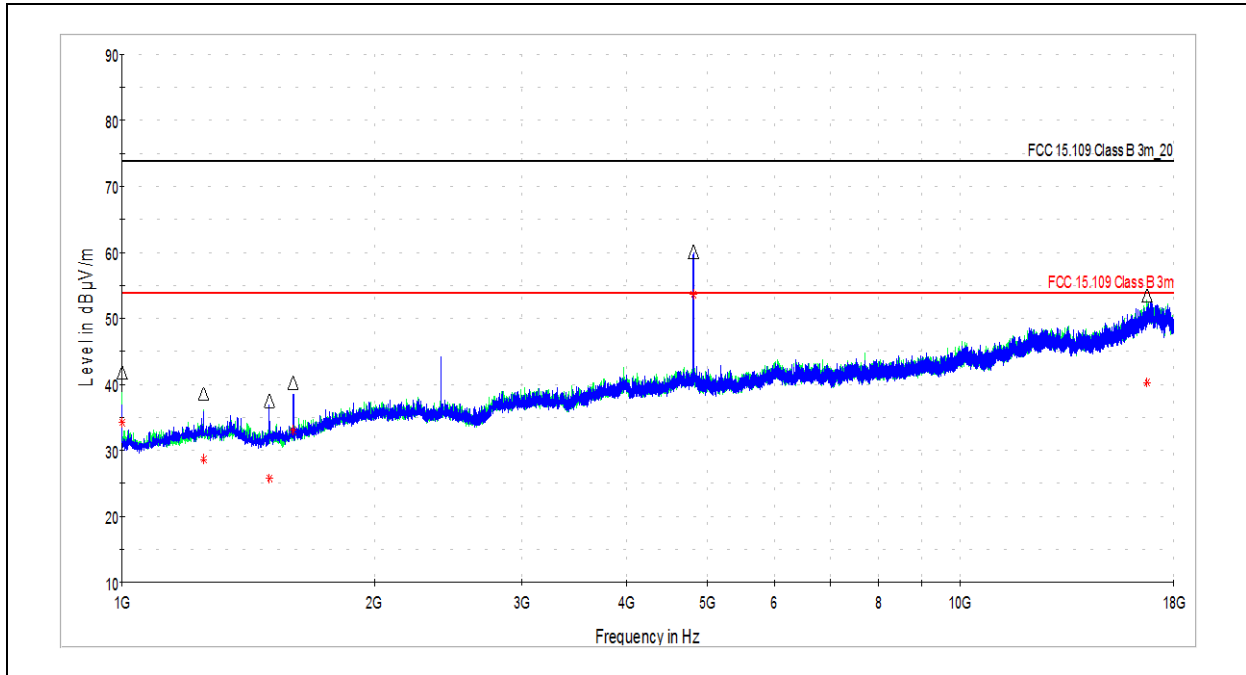
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	41.83	74.00	32.17	1000.000	265.0	H	296.0	-3.0
1249.500000	36.44	74.00	37.56	1000.000	200.0	V	304.0	-1.3
1499.500000	37.36	74.00	36.64	1000.000	269.0	V	330.0	-2.1
2480.000000	42.20	74.00	31.80	1000.000	270.0	V	230.0	3.2
4960.000000	56.09	74.00	17.91	1000.000	212.0	V	252.0	6.6
16815.500000	54.02	74.00	19.98	1000.000	370.0	H	252.0	21.7

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	33.80	54.00	20.20	1000.000	265.0	H	296.0	-3.0
1249.500000	24.32	54.00	29.68	1000.000	200.0	V	304.0	-1.3
1499.500000	25.95	54.00	28.05	1000.000	269.0	V	330.0	-2.1
2480.000000	32.66	54.00	21.34	1000.000	270.0	V	230.0	3.2
4960.000000	48.44	54.00	5.56	1000.000	212.0	V	252.0	6.6
16815.500000	40.40	54.00	13.60	1000.000	370.0	H	252.0	21.7

Bluetooth, BLE, Low Channel



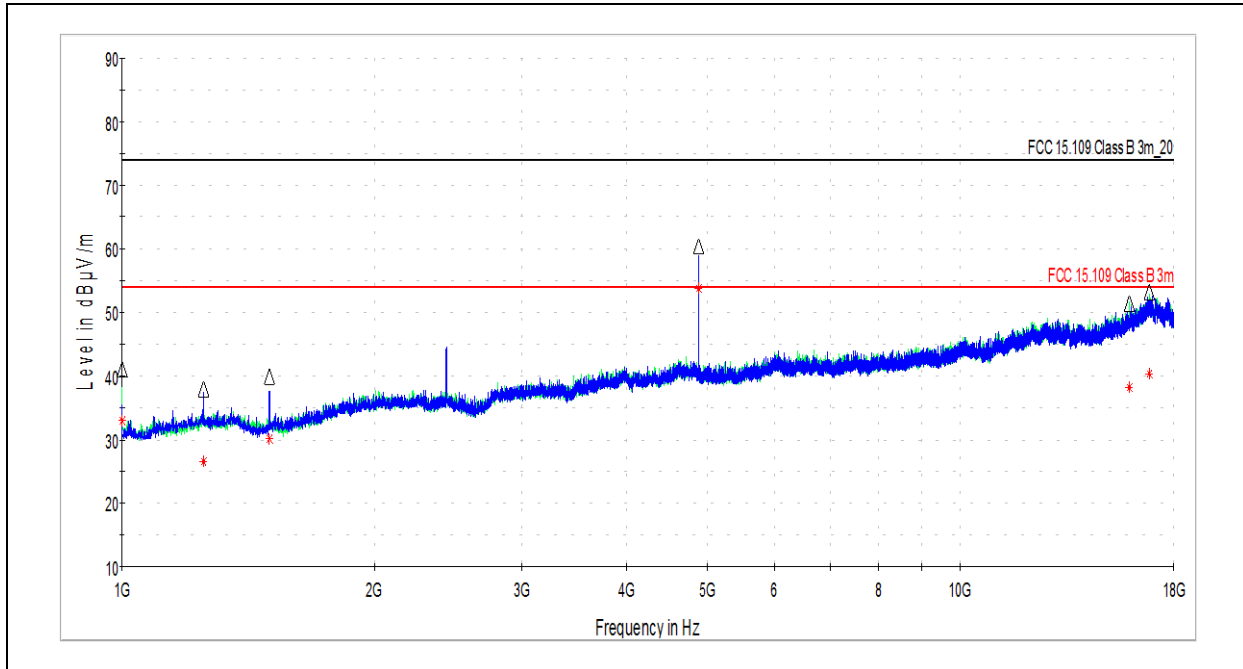
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	41.80	74.00	32.20	1000.000	269.0	H	298.0	-3.0
1250.000000	38.64	74.00	35.36	1000.000	219.0	H	306.0	-1.4
1499.500000	37.62	74.00	36.38	1000.000	267.0	V	328.0	-2.1
1601.000000	40.36	74.00	33.64	1000.000	305.0	V	247.0	-1.7
4803.500000	60.10	74.00	13.90	1000.000	239.0	V	234.0	7.3
16736.000000	53.45	74.00	20.55	1000.000	410.0	H	0.0	21.4

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	34.19	54.00	19.81	1000.000	269.0	H	298.0	-3.0
1250.000000	28.69	54.00	25.31	1000.000	219.0	H	306.0	-1.4
1499.500000	25.76	54.00	28.24	1000.000	267.0	V	328.0	-2.1
1601.000000	32.96	54.00	21.04	1000.000	305.0	V	247.0	-1.7
4803.500000	53.66	54.00	0.34	1000.000	239.0	V	234.0	7.3
16736.000000	40.27	54.00	13.73	1000.000	410.0	H	0.0	21.4

Bluetooth, BLE, Mid Channel



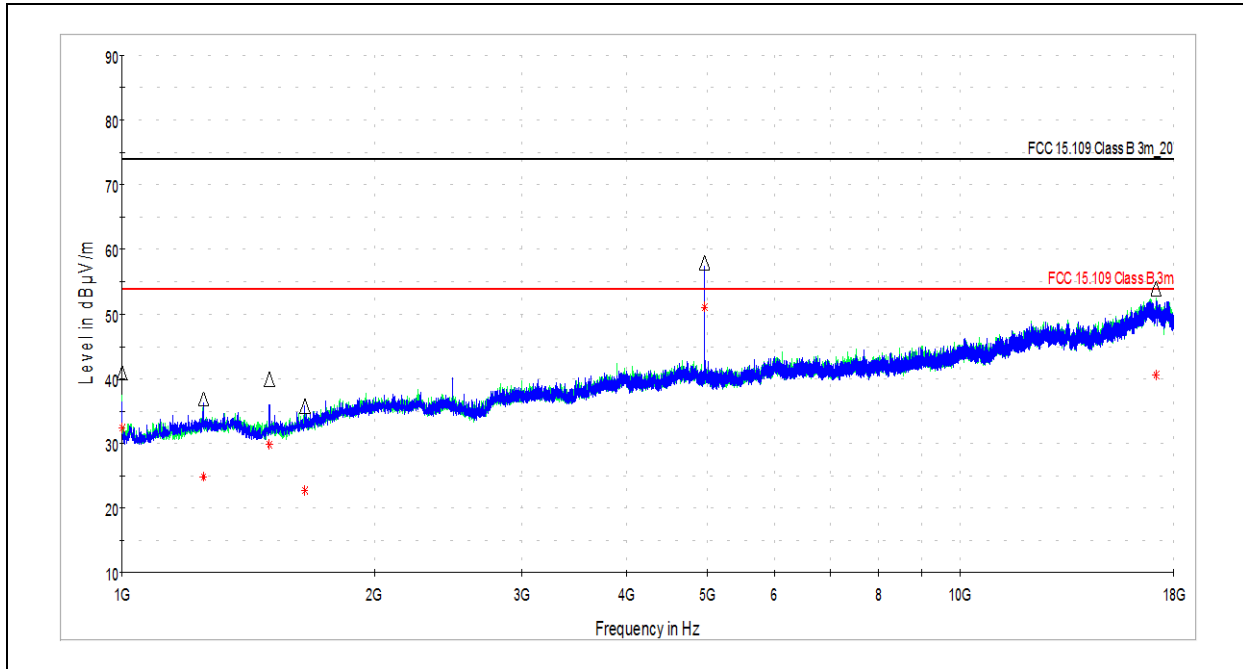
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	40.97	74.00	33.03	1000.000	281.0	H	294.0	-3.0
1249.500000	38.04	74.00	35.96	1000.000	223.0	V	329.0	-1.3
1500.000000	39.97	74.00	34.03	1000.000	269.0	V	330.0	-2.1
4880.500000	60.41	74.00	13.59	1000.000	243.0	V	260.0	6.8
15924.500000	51.43	74.00	22.57	1000.000	385.0	H	270.0	19.9
16829.000000	53.29	74.00	20.71	1000.000	270.0	H	102.0	21.8

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	32.88	54.00	21.12	1000.000	281.0	H	294.0	-3.0
1249.500000	26.58	54.00	27.42	1000.000	223.0	V	329.0	-1.3
1500.000000	30.06	54.00	23.94	1000.000	269.0	V	330.0	-2.1
4880.500000	53.82	54.00	0.18	1000.000	243.0	V	260.0	6.8
15924.500000	38.21	54.00	15.79	1000.000	385.0	H	270.0	19.9
16829.000000	40.34	54.00	13.66	1000.000	270.0	H	102.0	21.8

Bluetooth, BLE, High Channel



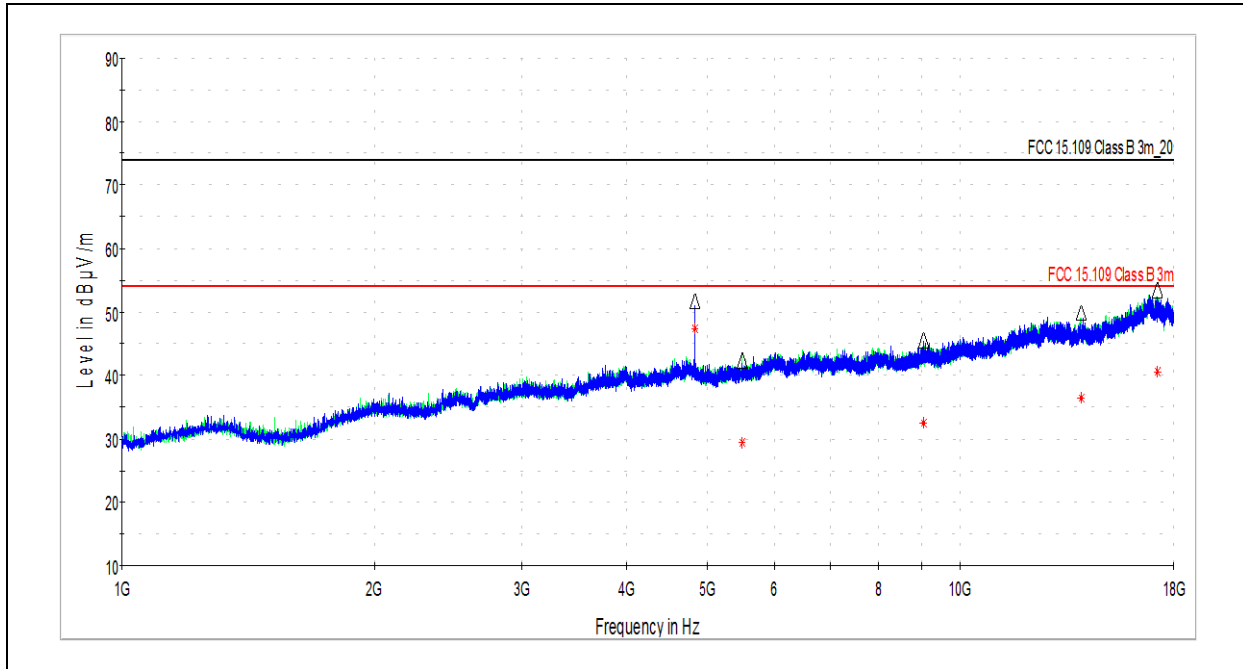
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	40.88	74.00	33.12	1000.000	116.0	H	270.0	-3.0
1249.500000	36.91	74.00	37.09	1000.000	229.0	V	324.0	-1.3
1500.000000	39.94	74.00	34.06	1000.000	271.0	V	330.0	-2.1
1652.500000	35.79	74.00	38.21	1000.000	281.0	V	254.0	-1.1
4960.500000	58.00	74.00	16.00	1000.000	210.0	V	246.0	6.6
17146.000000	53.89	74.00	20.11	1000.000	410.0	H	234.0	21.9

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	32.32	54.00	21.68	1000.000	116.0	H	270.0	-3.0
1249.500000	24.83	54.00	29.17	1000.000	229.0	V	324.0	-1.3
1500.000000	29.73	54.00	24.27	1000.000	271.0	V	330.0	-2.1
1652.500000	22.67	54.00	31.33	1000.000	281.0	V	254.0	-1.1
4960.500000	51.08	54.00	2.92	1000.000	210.0	V	246.0	6.6
17146.000000	40.53	54.00	13.47	1000.000	410.0	H	234.0	21.9

2.4GHz Wi-Fi, 802.11B, Low Channel



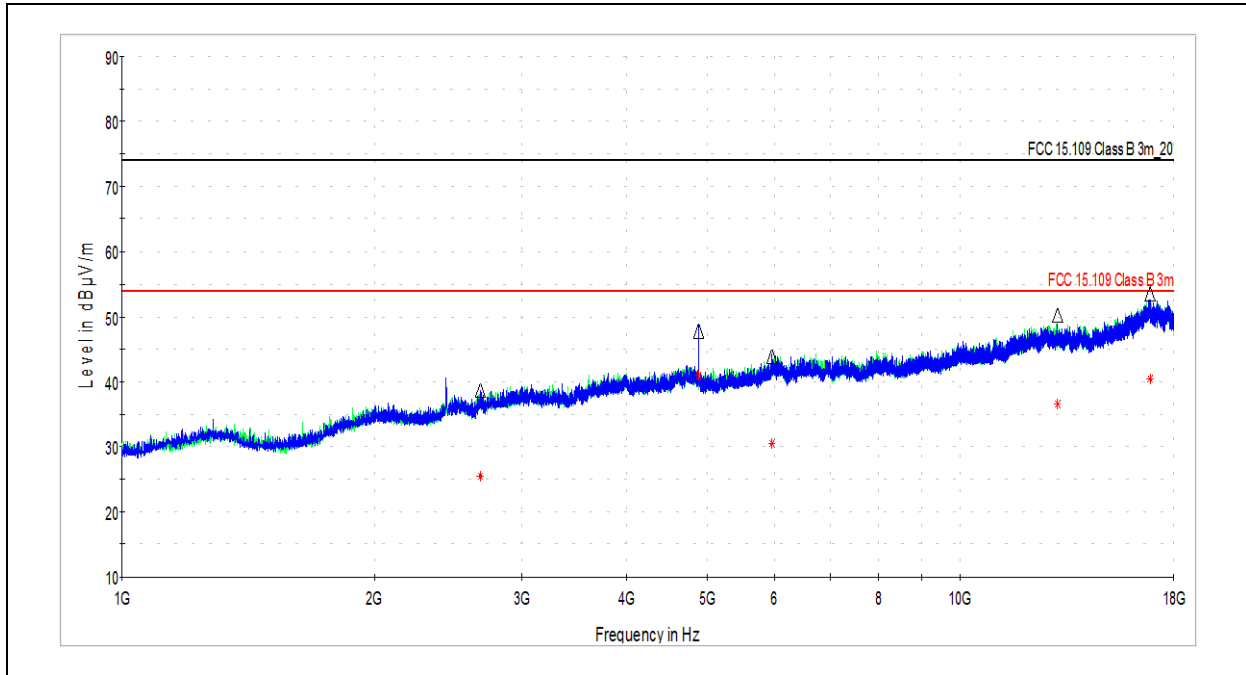
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4824.000000	51.65	74.00	22.35	1000.000	309.0	V	318.0	7.1
5501.500000	42.42	74.00	31.58	1000.000	100.0	H	47.0	8.9
9051.500000	45.59	74.00	28.41	1000.000	410.0	V	58.0	12.0
13946.000000	49.94	74.00	24.06	1000.000	355.0	H	294.0	17.1
17216.000000	53.51	74.00	20.49	1000.000	391.0	V	330.0	21.6

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4824.000000	47.31	54.00	6.69	1000.000	309.0	V	318.0	7.1
5501.500000	29.44	54.00	24.56	1000.000	100.0	H	47.0	8.9
9051.500000	32.43	54.00	21.57	1000.000	410.0	V	58.0	12.0
13946.000000	36.46	54.00	17.54	1000.000	355.0	H	294.0	17.1
17216.000000	40.55	54.00	13.45	1000.000	391.0	V	330.0	21.6

2.4GHz Wi-Fi, 802.11B, Mid Channel



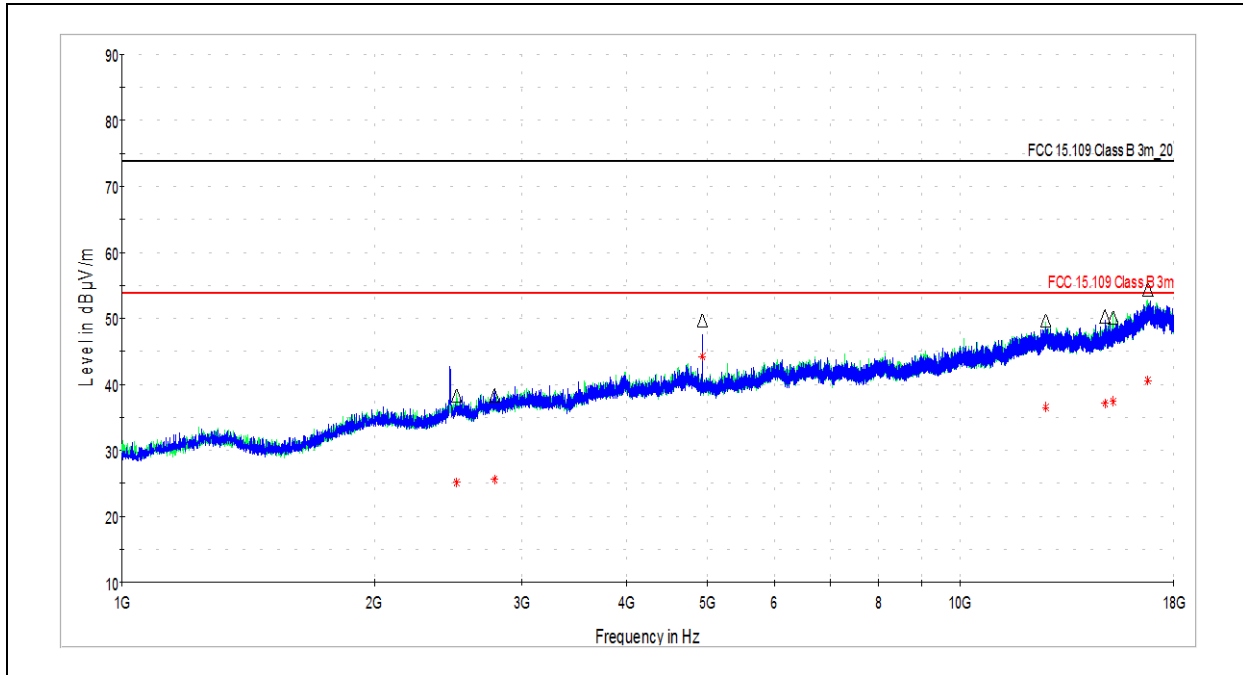
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2676.500000	38.71	74.00	35.29	1000.000	290.0	V	25.0	3.3
4874.000000	47.72	74.00	26.28	1000.000	336.0	V	328.0	6.8
5960.500000	43.95	74.00	30.05	1000.000	410.0	V	95.0	8.7
13084.000000	50.26	74.00	23.74	1000.000	410.0	V	220.0	17.2
16862.000000	53.49	74.00	20.51	1000.000	410.0	V	71.0	21.7

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2676.500000	25.52	54.00	28.48	1000.000	290.0	V	25.0	3.3
4874.000000	41.00	54.00	13.00	1000.000	336.0	V	328.0	6.8
5960.500000	30.57	54.00	23.43	1000.000	410.0	V	95.0	8.7
13084.000000	36.58	54.00	17.42	1000.000	410.0	V	220.0	17.2
16862.000000	40.54	54.00	13.46	1000.000	410.0	V	71.0	21.7

2.4GHz Wi-Fi, 802.11B, High Channel



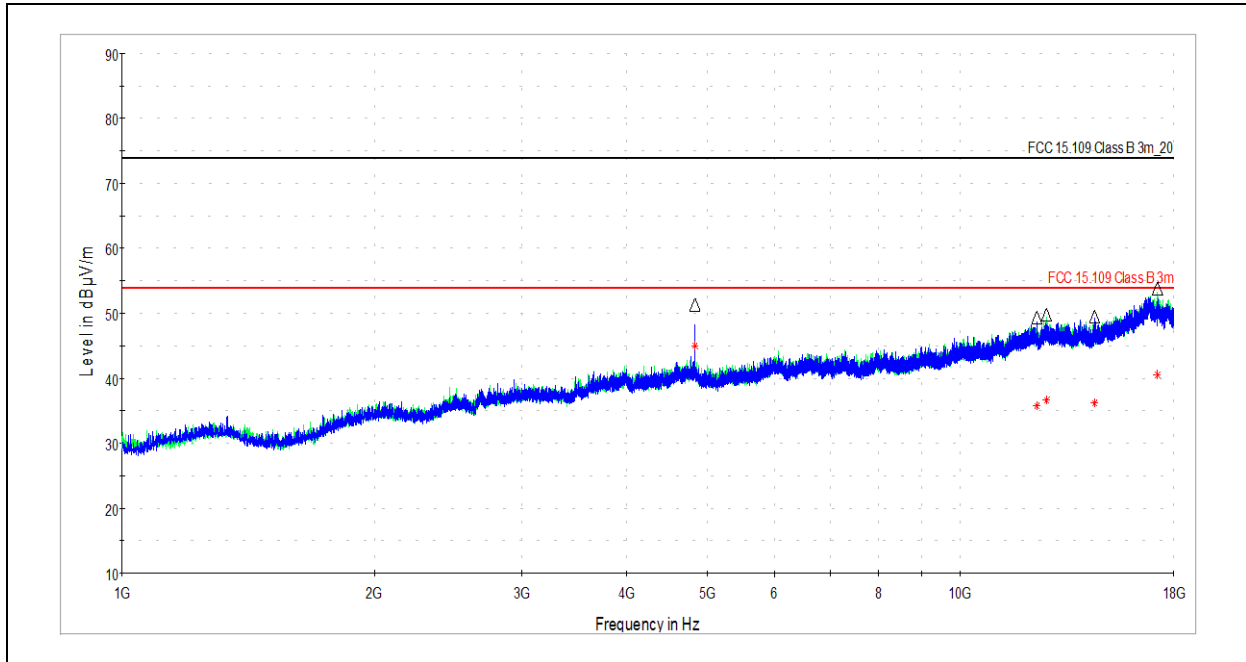
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2509.500000	38.33	74.00	35.67	1000.000	410.0	H	206.0	3.6
2783.500000	38.39	74.00	35.61	1000.000	410.0	V	287.0	3.7
4924.000000	49.72	74.00	24.28	1000.000	218.0	V	312.0	6.7
12672.000000	49.67	74.00	24.33	1000.000	410.0	H	282.0	16.8
14898.000000	50.33	74.00	23.67	1000.000	410.0	V	345.0	18.1
15246.000000	50.20	74.00	23.80	1000.000	100.0	H	322.0	18.6
16774.500000	54.33	74.00	19.67	1000.000	380.0	H	177.0	21.6

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2509.500000	25.09	54.00	28.91	1000.000	410.0	H	206.0	3.6
2783.500000	25.61	54.00	28.39	1000.000	410.0	V	287.0	3.7
4924.000000	44.17	54.00	9.83	1000.000	218.0	V	312.0	6.7
12672.000000	36.57	54.00	17.43	1000.000	410.0	H	282.0	16.8
14898.000000	37.12	54.00	16.88	1000.000	410.0	V	345.0	18.1
15246.000000	37.41	54.00	16.59	1000.000	100.0	H	322.0	18.6
16774.500000	40.58	54.00	13.42	1000.000	380.0	H	177.0	21.6

2.4GHz Wi-Fi, 802.11G, Low Channel



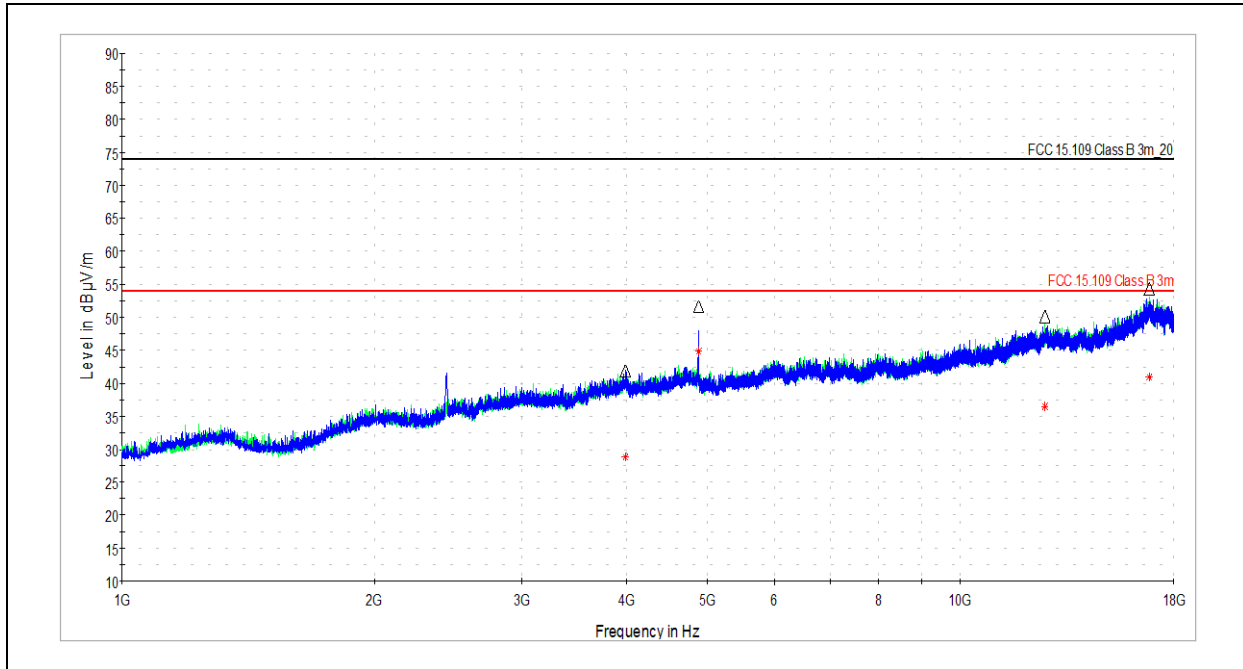
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4824.000000	51.42	74.00	22.58	1000.000	251.0	V	88.0	7.1
12348.000000	49.34	74.00	24.66	1000.000	410.0	V	263.0	16.3
12686.000000	49.72	74.00	24.28	1000.000	410.0	H	131.0	16.9
14476.500000	49.51	74.00	24.49	1000.000	410.0	V	294.0	16.5
17229.500000	53.77	74.00	20.23	1000.000	352.0	H	194.0	21.7

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4824.000000	45.03	54.00	8.97	1000.000	251.0	V	88.0	7.1
12348.000000	35.82	54.00	18.18	1000.000	410.0	V	263.0	16.3
12686.000000	36.64	54.00	17.36	1000.000	410.0	H	131.0	16.9
14476.500000	36.18	54.00	17.82	1000.000	410.0	V	294.0	16.5
17229.500000	40.50	54.00	13.50	1000.000	352.0	H	194.0	21.7

2.4GHz Wi-Fi, 802.11G, Mid Channel



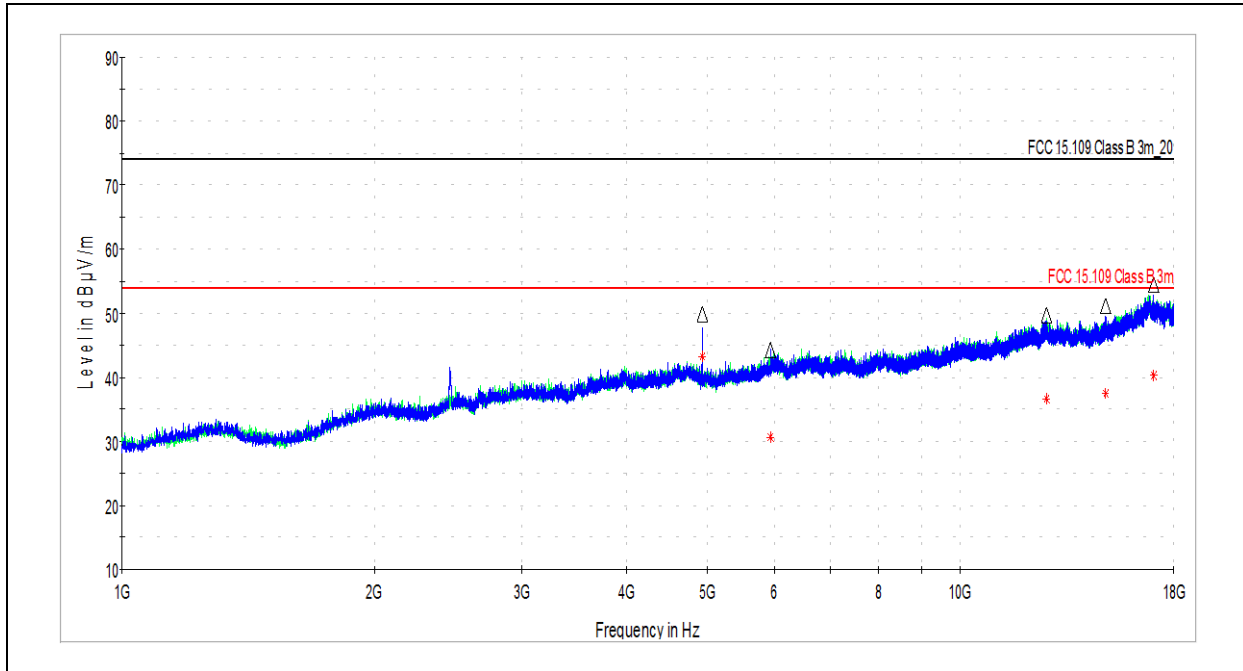
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3987.000000	41.97	74.00	32.03	1000.000	410.0	V	79.0	6.5
4874.000000	51.73	74.00	22.27	1000.000	249.0	V	100.0	6.8
12632.500000	50.11	74.00	23.89	1000.000	410.0	H	34.0	16.7
16821.500000	54.34	74.00	19.66	1000.000	410.0	H	309.0	21.8

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3987.000000	28.82	54.00	25.18	1000.000	410.0	V	79.0	6.5
4874.000000	44.78	54.00	9.22	1000.000	249.0	V	100.0	6.8
12632.500000	36.45	54.00	17.55	1000.000	410.0	H	34.0	16.7
16821.500000	40.90	54.00	13.10	1000.000	410.0	H	309.0	21.8

2.4GHz Wi-Fi, 802.11G, High Channel



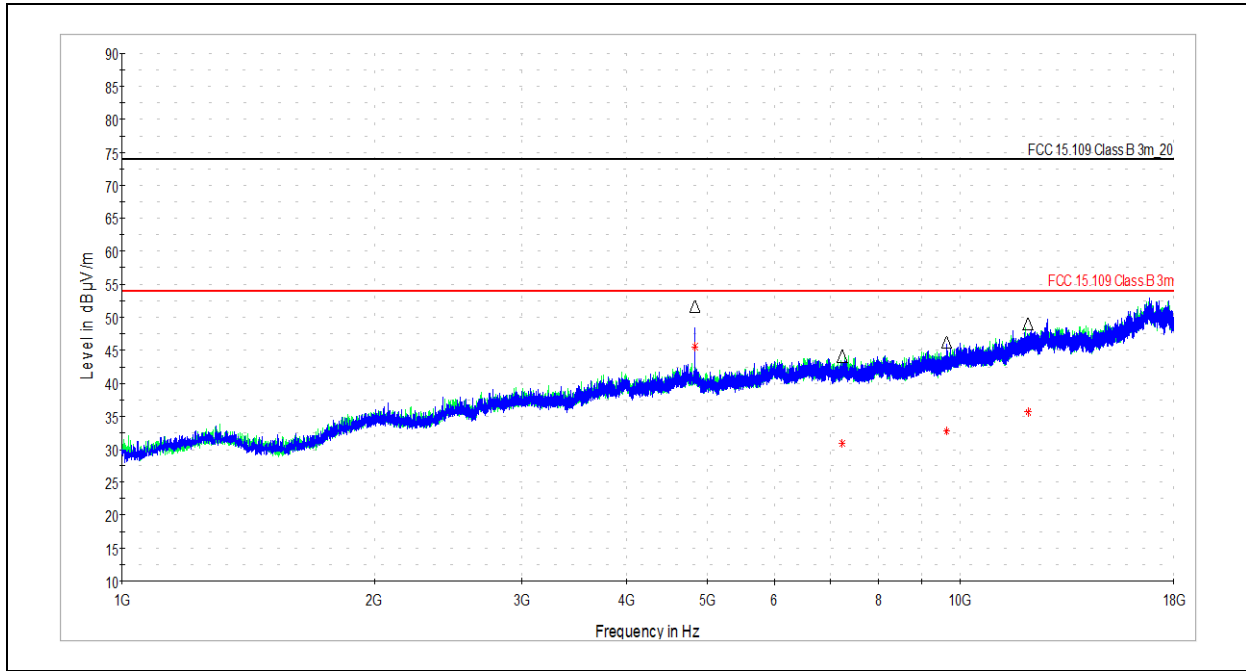
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4924.000000	49.90	74.00	24.10	1000.000	269.0	V	174.0	6.7
5939.000000	44.27	74.00	29.73	1000.000	410.0	V	184.0	8.7
12697.500000	49.81	74.00	24.19	1000.000	355.0	H	250.0	17.0
14943.000000	51.07	74.00	22.93	1000.000	410.0	V	0.0	18.5
17021.000000	54.52	74.00	19.48	1000.000	100.0	V	59.0	21.8

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4924.000000	43.26	54.00	10.74	1000.000	269.0	V	174.0	6.7
5939.000000	30.62	54.00	23.38	1000.000	410.0	V	184.0	8.7
12697.500000	36.61	54.00	17.39	1000.000	355.0	H	250.0	17.0
14943.000000	37.44	54.00	16.56	1000.000	410.0	V	0.0	18.5
17021.000000	40.34	54.00	13.66	1000.000	100.0	V	59.0	21.8

2.4GHz Wi-Fi, 802.11N, Low Channel



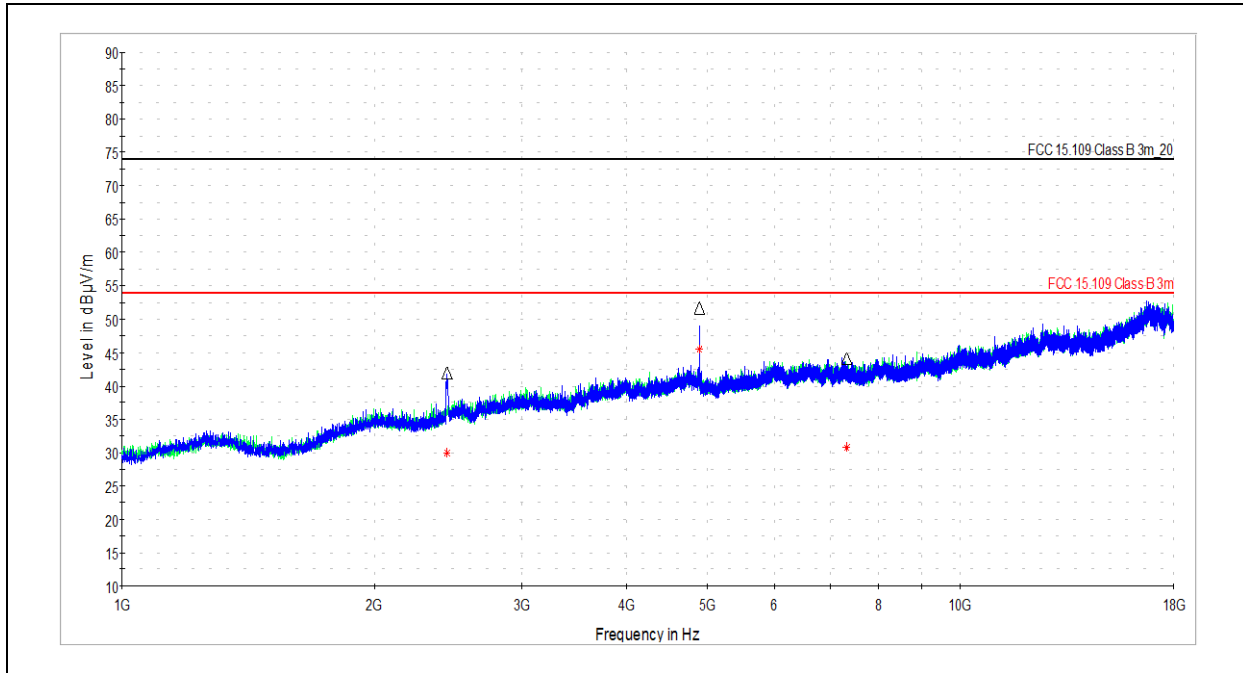
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4824.000000	51.70	74.00	22.30	1000.000	248.0	V	90.0	7.1
7234.500000	44.16	74.00	29.84	1000.000	100.0	H	331.0	10.3
9641.500000	46.28	74.00	27.72	1000.000	410.0	V	121.0	13.0
12060.000000	49.09	74.00	24.91	1000.000	396.0	V	244.0	16.4

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4824.000000	45.49	54.00	8.51	1000.000	248.0	V	90.0	7.1
7234.500000	30.95	54.00	23.05	1000.000	100.0	H	331.0	10.3
9641.500000	32.73	54.00	21.27	1000.000	410.0	V	121.0	13.0
12060.000000	35.61	54.00	18.39	1000.000	396.0	V	244.0	16.4

2.4GHz Wi-Fi, 802.11N, Mid Channel



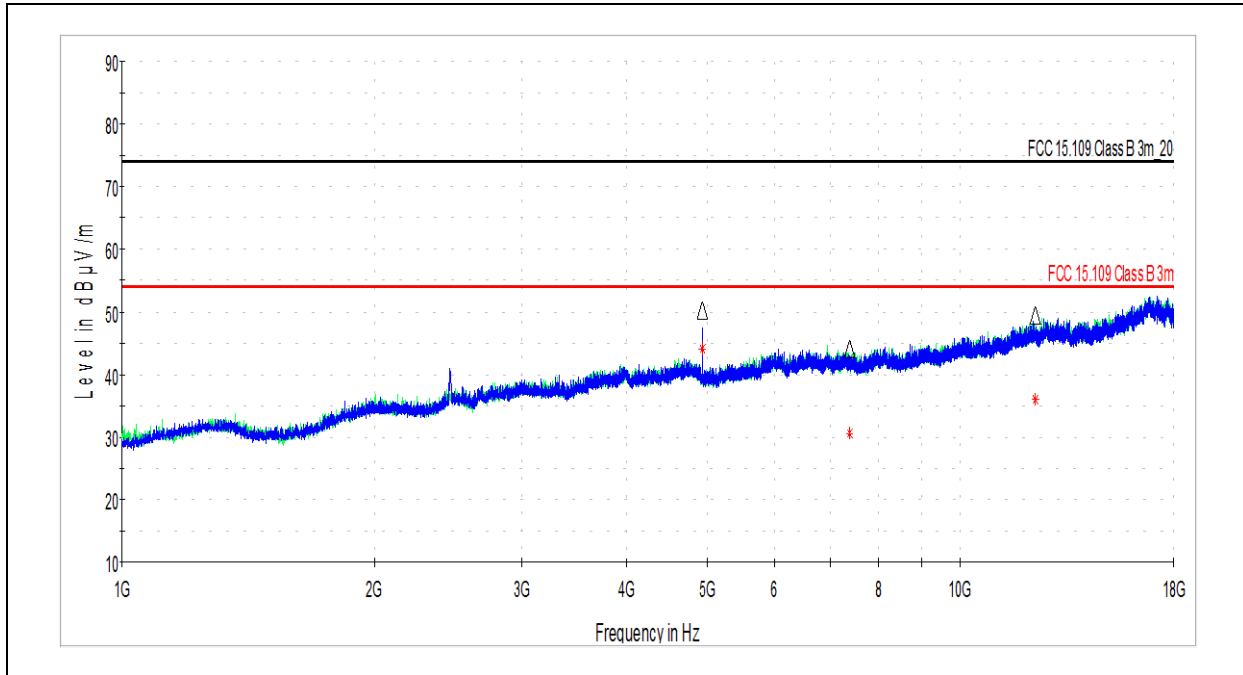
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2442.500000	42.04	74.00	31.96	1000.000	327.0	V	78.0	3.3
4884.000000	51.66	74.00	22.34	1000.000	235.0	V	92.0	6.8
7325.500000	44.19	74.00	29.81	1000.000	381.0	V	292.0	10.3

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2442.500000	29.98	54.00	24.02	1000.000	327.0	V	78.0	3.3
4884.000000	45.51	54.00	8.49	1000.000	235.0	V	92.0	6.8
7325.500000	30.74	54.00	23.26	1000.000	381.0	V	292.0	10.3

2.4GHz Wi-Fi, 802.11N, High Channel



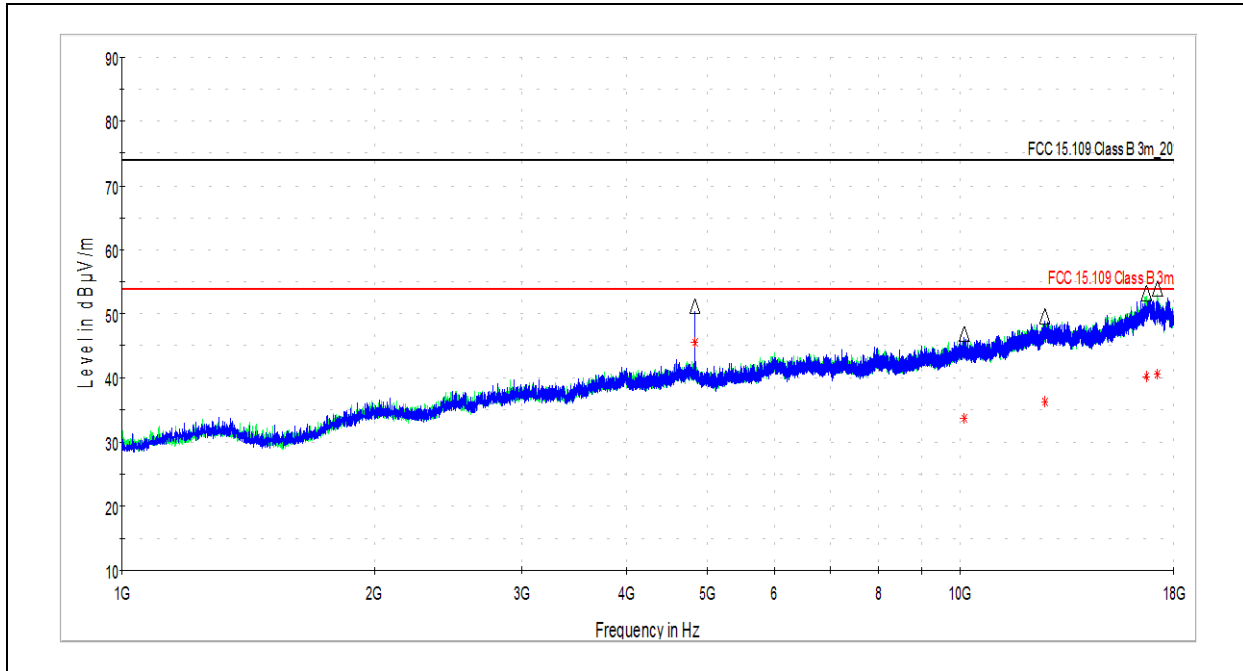
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4924.000000	50.23	74.00	23.77	1000.000	246.0	V	45.0	6.7
7386.000000	44.07	74.00	29.93	1000.000	410.0	V	312.0	10.5
12310.000000	49.58	74.00	24.42	1000.000	410.0	V	173.0	16.4

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4924.000000	44.07	54.00	9.93	1000.000	246.0	V	45.0	6.7
7386.000000	30.54	54.00	23.46	1000.000	410.0	V	312.0	10.5
12310.000000	36.01	54.00	17.99	1000.000	410.0	V	173.0	16.4

2.4GHz Wi-Fi, 802.11N40, Low Channel



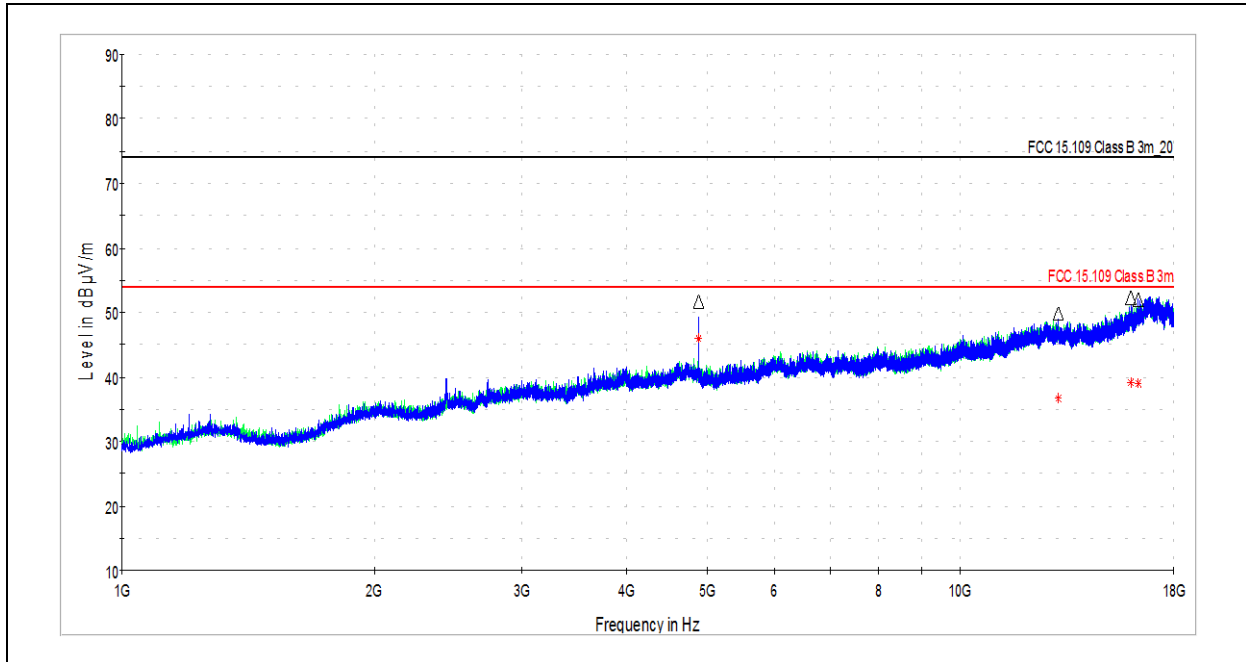
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4824.000000	51.28	74.00	22.72	1000.000	203.0	V	92.0	7.1
10132.000000	46.98	74.00	27.02	1000.000	410.0	V	168.0	13.9
12638.500000	49.74	74.00	24.26	1000.000	410.0	V	316.0	16.6
16695.000000	53.29	74.00	20.71	1000.000	380.0	H	130.0	21.4
17224.000000	54.02	74.00	19.98	1000.000	398.0	H	218.0	21.7

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4824.000000	45.52	54.00	8.48	1000.000	203.0	V	92.0	7.1
10132.000000	33.69	54.00	20.31	1000.000	410.0	V	168.0	13.9
12638.500000	36.27	54.00	17.73	1000.000	410.0	V	316.0	16.6
16695.000000	40.15	54.00	13.85	1000.000	380.0	H	130.0	21.4
17224.000000	40.62	54.00	13.38	1000.000	398.0	H	218.0	21.7

2.4GHz Wi-Fi, 802.11N40, Mid Channel



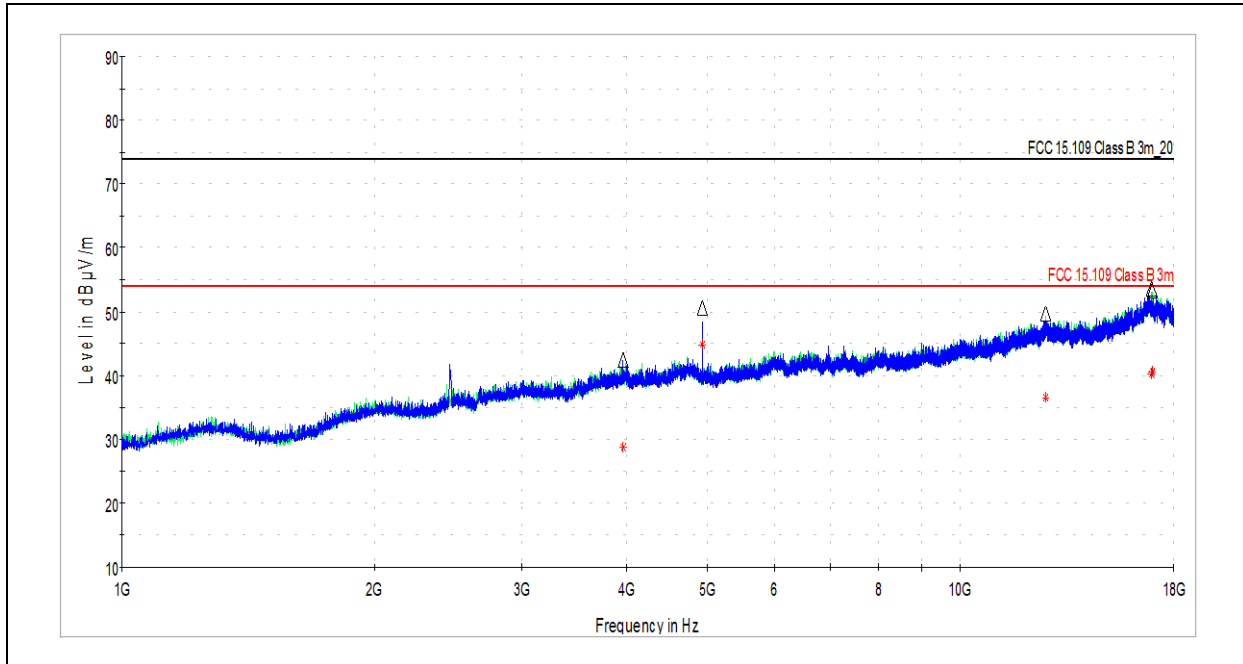
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4874.000000	51.66	74.00	22.34	1000.000	244.0	V	44.0	6.8
13098.000000	49.77	74.00	24.23	1000.000	301.0	V	12.0	17.2
15998.500000	52.27	74.00	21.73	1000.000	410.0	V	168.0	20.6
16337.500000	52.07	74.00	21.93	1000.000	388.0	V	327.0	20.1

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4874.000000	45.91	54.00	8.09	1000.000	244.0	V	44.0	6.8
13098.000000	36.60	54.00	17.40	1000.000	301.0	V	12.0	17.2
15998.500000	39.07	54.00	14.93	1000.000	410.0	V	168.0	20.6
16337.500000	39.02	54.00	14.98	1000.000	388.0	V	327.0	20.1

2.4GHz Wi-Fi, 802.11N40, High Channel



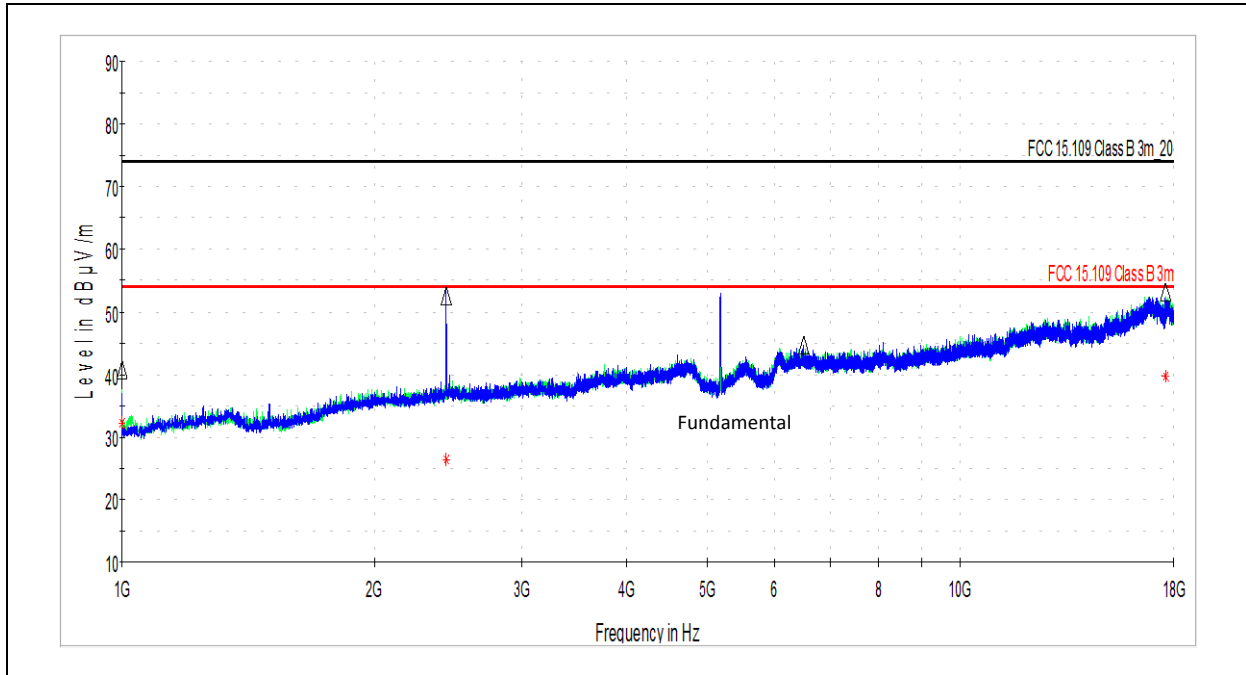
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3962.500000	42.53	74.00	31.47	1000.000	410.0	V	268.0	6.4
4924.000000	50.60	74.00	23.40	1000.000	245.0	V	40.0	6.7
12654.500000	49.81	74.00	24.19	1000.000	410.0	H	275.0	16.8
16922.000000	53.70	74.00	20.30	1000.000	350.0	H	234.0	21.8
16982.000000	53.30	74.00	20.70	1000.000	100.0	H	13.0	22.0

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3962.500000	28.80	54.00	25.20	1000.000	410.0	V	268.0	6.4
4924.000000	44.78	54.00	9.22	1000.000	245.0	V	40.0	6.7
12654.500000	36.56	54.00	17.44	1000.000	410.0	H	275.0	16.8
16922.000000	40.32	54.00	13.68	1000.000	350.0	H	234.0	21.8
16982.000000	40.53	54.00	13.47	1000.000	100.0	H	13.0	22.0

U-NII-1, 802.11A, Low Channel



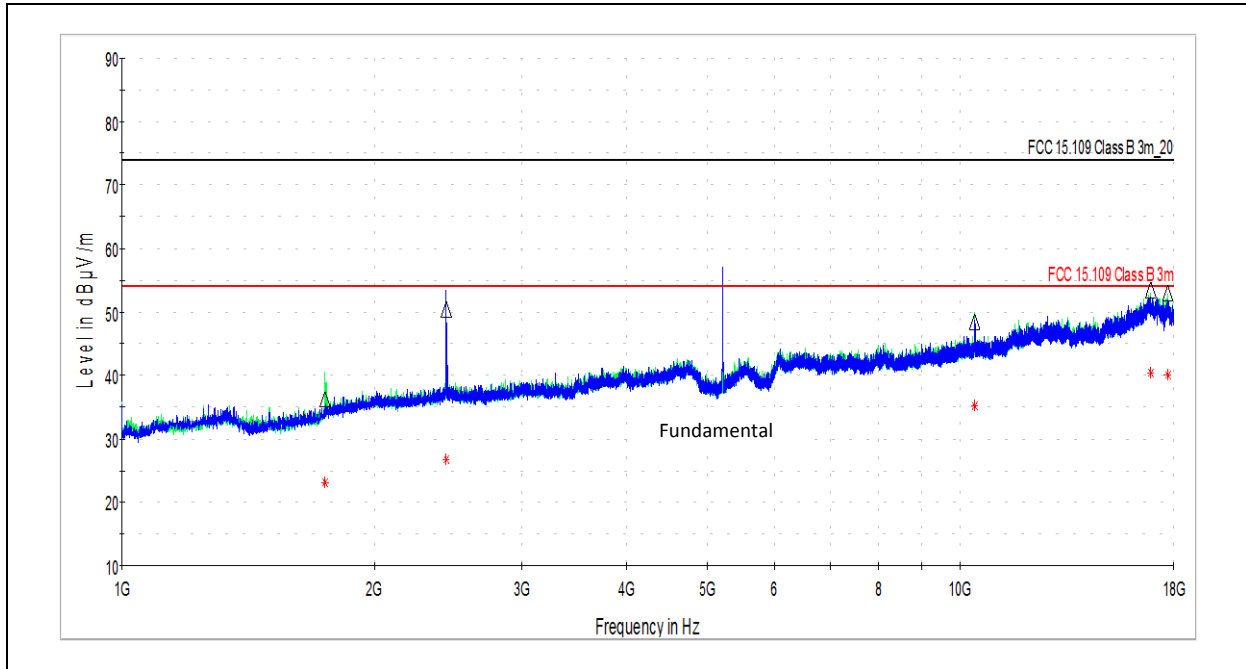
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	40.75	74.00	33.25	1000.000	117.0	H	27.0	-3.0
2435.500000	52.59	74.00	21.41	1000.000	117.0	V	336.0	3.3
6504.000000	44.72	74.00	29.28	1000.000	100.0	V	176.0	10.2
17615.000000	53.27	74.00	20.73	1000.000	372.0	H	233.0	20.9

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	32.33	54.00	21.67	1000.000	117.0	H	27.0	-3.0
2435.500000	26.45	54.00	27.55	1000.000	117.0	V	336.0	3.3
6504.000000	30.90	54.00	23.10	1000.000	100.0	V	176.0	10.2
17615.000000	39.78	54.00	14.22	1000.000	372.0	H	233.0	20.9

U-NII-1, 802.11A, Mid Channel



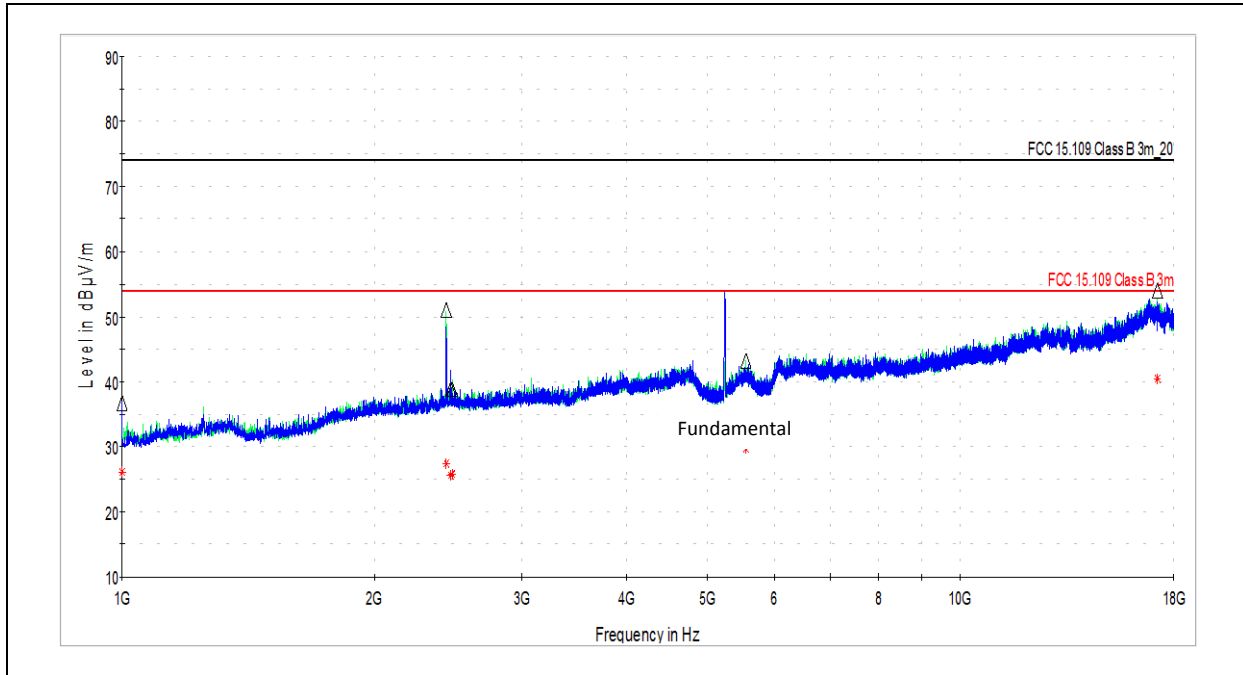
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1746.500000	36.32	74.00	37.68	1000.000	384.0	H	311.0	0.0
2435.500000	50.44	74.00	23.56	1000.000	193.0	V	0.0	3.3
10419.500000	48.51	74.00	25.49	1000.000	387.0	H	12.0	13.9
16901.000000	53.56	74.00	20.44	1000.000	381.0	H	26.0	21.7
17706.000000	53.04	74.00	20.96	1000.000	100.0	H	184.0	20.9

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1746.500000	23.09	54.00	30.91	1000.000	384.0	H	311.0	0.0
2435.500000	26.71	54.00	27.29	1000.000	193.0	V	0.0	3.3
10419.500000	35.12	54.00	18.88	1000.000	387.0	H	12.0	13.9
16901.000000	40.43	54.00	13.57	1000.000	381.0	H	26.0	21.7
17706.000000	39.99	54.00	14.01	1000.000	100.0	H	184.0	20.9

U-NII-1, 802.11A, High Channel



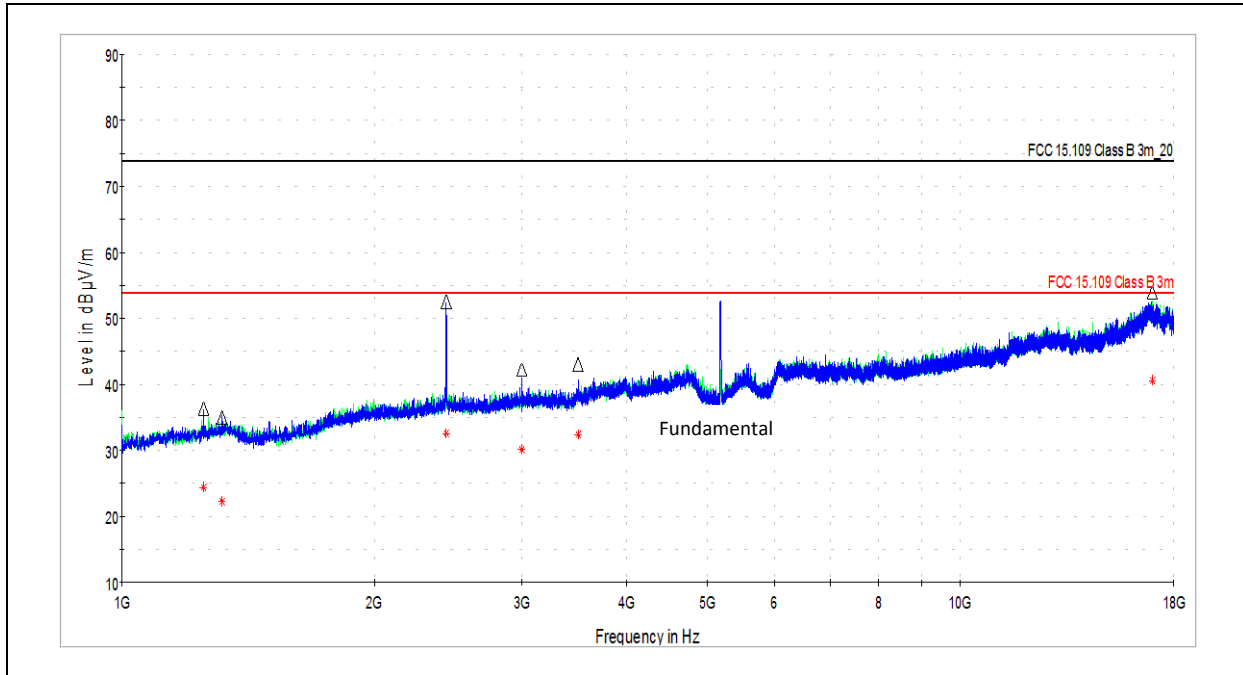
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	36.78	74.00	37.22	1000.000	410.0	V	129.0	-3.9
2435.500000	51.05	74.00	22.95	1000.000	249.0	H	320.0	3.4
2467.500000	38.84	74.00	35.16	1000.000	366.0	V	238.0	3.3
2479.500000	38.77	74.00	35.23	1000.000	410.0	H	286.0	3.5
5551.000000	43.22	74.00	30.78	1000.000	410.0	H	168.0	8.9
17220.000000	53.94	74.00	20.06	1000.000	388.0	H	296.0	21.7

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	26.08	54.00	27.92	1000.000	410.0	V	129.0	-3.9
2435.500000	27.39	54.00	26.61	1000.000	249.0	H	320.0	3.4
2467.500000	25.70	54.00	28.30	1000.000	366.0	V	238.0	3.3
2479.500000	25.85	54.00	28.15	1000.000	410.0	H	286.0	3.5
5551.000000	29.69	54.00	24.31	1000.000	410.0	H	168.0	8.9
17220.000000	40.44	54.00	13.56	1000.000	388.0	H	296.0	21.7

U-NII-1, 802.11N, Low Channel



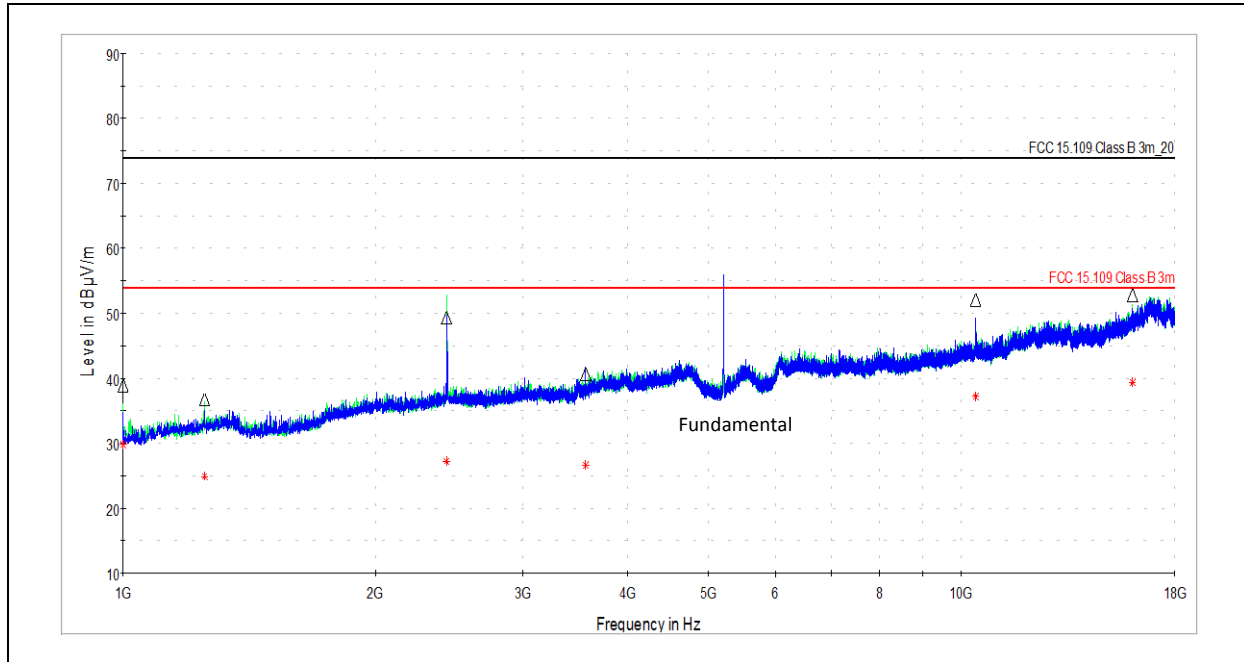
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1249.500000	36.30	74.00	37.70	1000.000	410.0	V	215.0	-1.3
1317.000000	34.99	74.00	39.01	1000.000	354.0	V	218.0	-1.2
2435.000000	52.61	74.00	21.39	1000.000	183.0	V	271.0	3.3
3000.000000	42.31	74.00	31.69	1000.000	322.0	V	335.0	4.4
3500.000000	43.03	74.00	30.97	1000.000	326.0	V	0.0	5.4
16984.000000	53.92	74.00	20.08	1000.000	391.0	H	0.0	22.0

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1249.500000	24.36	54.00	29.64	1000.000	410.0	V	215.0	-1.3
1317.000000	22.31	54.00	31.69	1000.000	354.0	V	218.0	-1.2
2435.000000	32.52	54.00	21.48	1000.000	183.0	V	271.0	3.3
3000.000000	30.13	54.00	23.87	1000.000	322.0	V	335.0	4.4
3500.000000	32.38	54.00	21.62	1000.000	326.0	V	0.0	5.4
16984.000000	40.54	54.00	13.46	1000.000	391.0	H	0.0	22.0

U-NII-1, 802.11N, Mid Channel



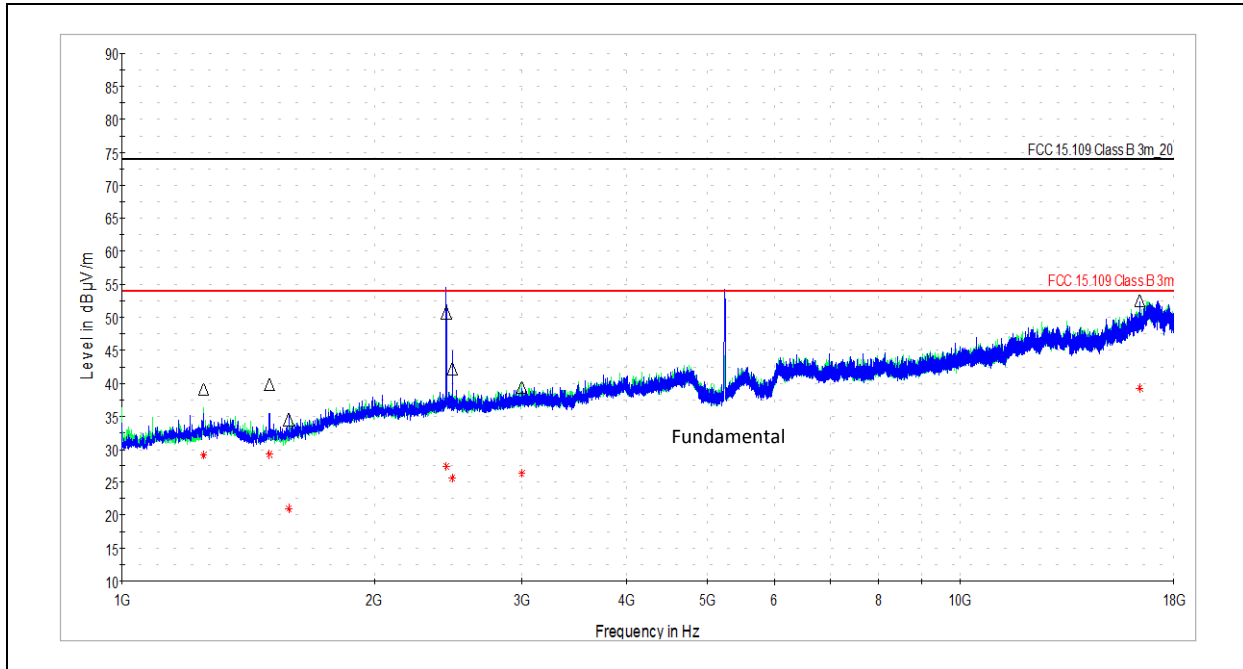
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	38.95	74.00	35.05	1000.000	286.0	H	285.0	-3.0
1249.500000	36.76	74.00	37.24	1000.000	296.0	H	13.0	-1.4
2434.000000	49.42	74.00	24.58	1000.000	169.0	H	242.0	3.4
3565.500000	40.60	74.00	33.40	1000.000	245.0	V	329.0	5.2
10422.000000	52.14	74.00	21.86	1000.000	100.0	V	0.0	13.9
16029.000000	52.81	74.00	21.19	1000.000	410.0	H	241.0	20.8

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	29.88	54.00	24.12	1000.000	286.0	H	285.0	-3.0
1249.500000	24.88	54.00	29.12	1000.000	296.0	H	13.0	-1.4
2434.000000	27.19	54.00	26.81	1000.000	169.0	H	242.0	3.4
3565.500000	26.69	54.00	27.31	1000.000	245.0	V	329.0	5.2
10422.000000	37.21	54.00	16.79	1000.000	100.0	V	0.0	13.9
16029.000000	39.37	54.00	14.63	1000.000	410.0	H	241.0	20.8

U-NII-1, 802.11N, High Channel



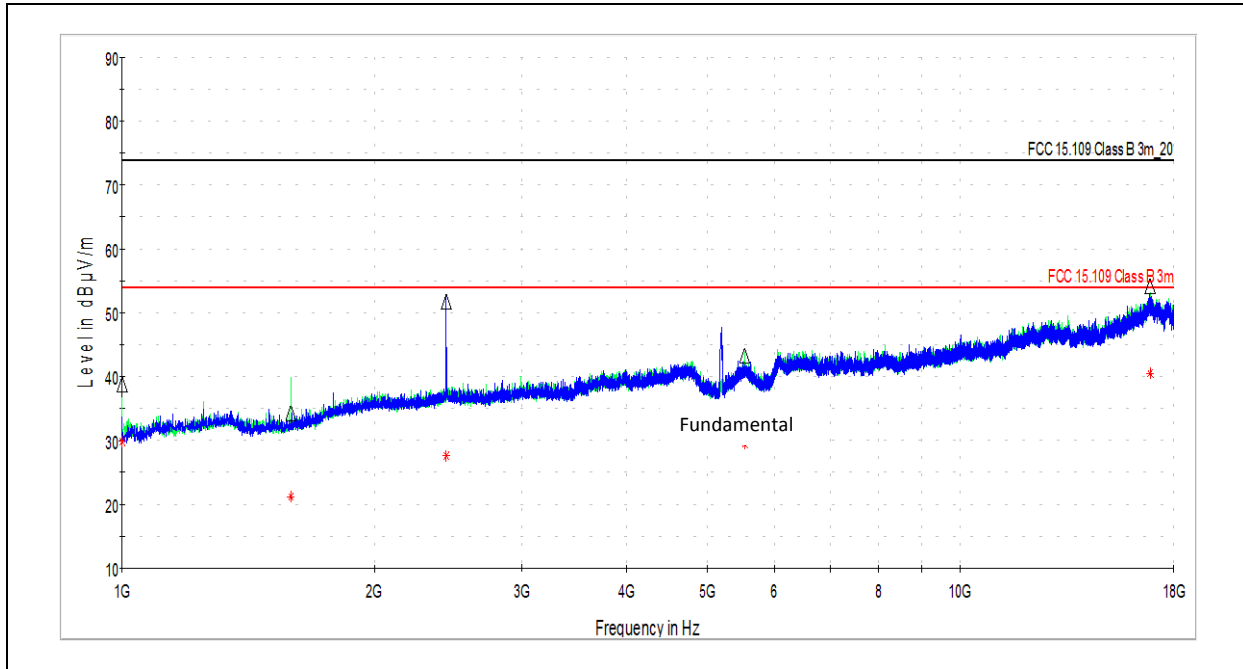
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1250.000000	39.13	74.00	34.87	1000.000	192.0	H	38.0	-1.4
1500.000000	39.85	74.00	34.15	1000.000	218.0	V	332.0	-2.1
1580.500000	34.47	74.00	39.53	1000.000	410.0	H	329.0	-1.9
2435.000000	50.65	74.00	23.35	1000.000	166.0	V	26.0	3.3
2479.500000	42.23	74.00	31.77	1000.000	193.0	V	172.0	3.2
2998.000000	39.38	74.00	34.62	1000.000	341.0	H	0.0	4.4
16392.000000	52.49	74.00	21.51	1000.000	410.0	V	226.0	20.2

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1250.000000	29.14	54.00	24.86	1000.000	192.0	H	38.0	-1.4
1500.000000	29.24	54.00	24.76	1000.000	218.0	V	332.0	-2.1
1580.500000	20.95	54.00	33.05	1000.000	410.0	H	329.0	-1.9
2435.000000	27.38	54.00	26.62	1000.000	166.0	V	26.0	3.3
2479.500000	25.57	54.00	28.43	1000.000	193.0	V	172.0	3.2
2998.000000	26.27	54.00	27.73	1000.000	341.0	H	0.0	4.4
16392.000000	39.22	54.00	14.78	1000.000	410.0	V	226.0	20.2

U-NII-1, 802.11N40, Low Channel



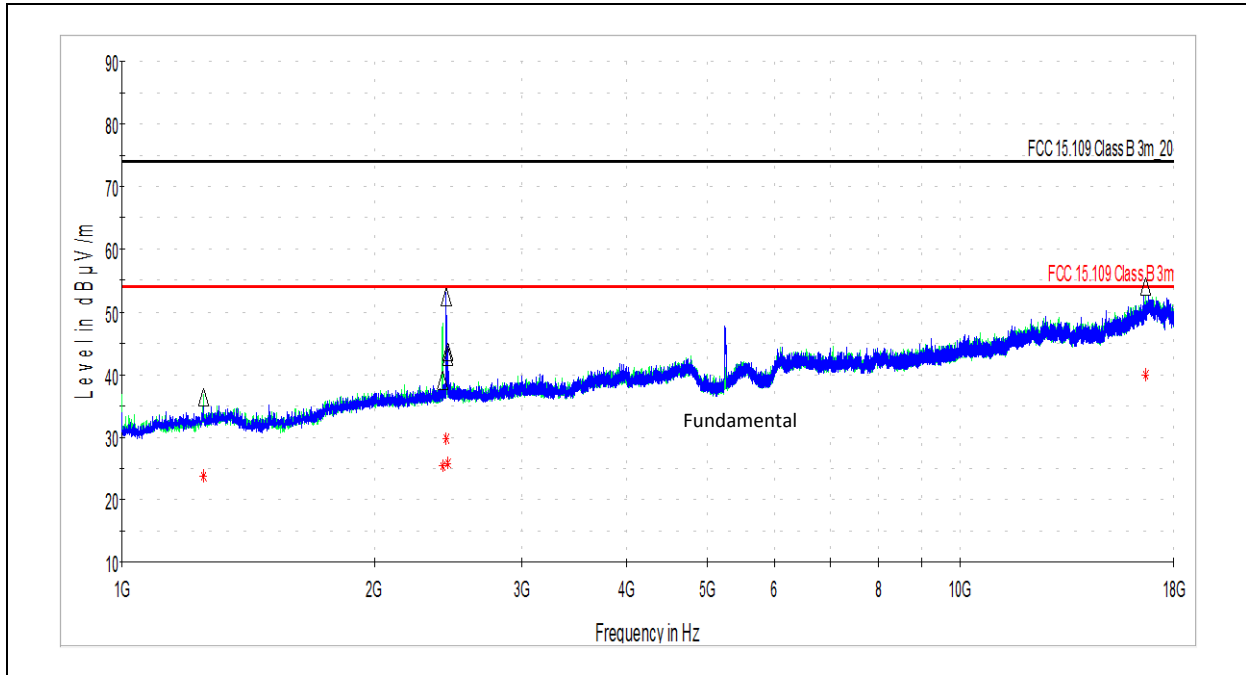
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	38.82	74.00	35.18	1000.000	287.0	H	284.0	-3.0
1590.000000	34.30	74.00	39.70	1000.000	410.0	H	45.0	-1.8
2435.000000	51.68	74.00	22.32	1000.000	180.0	V	114.0	3.3
5535.500000	43.21	74.00	30.79	1000.000	100.0	H	306.0	9.0
16862.000000	54.10	74.00	19.90	1000.000	344.0	H	290.0	21.8

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	29.82	54.00	24.18	1000.000	287.0	H	284.0	-3.0
1590.000000	21.21	54.00	32.79	1000.000	410.0	H	45.0	-1.8
2435.000000	27.55	54.00	26.45	1000.000	180.0	V	114.0	3.3
5535.500000	29.50	54.00	24.50	1000.000	100.0	H	306.0	9.0
16862.000000	40.44	54.00	13.56	1000.000	344.0	H	290.0	21.8

U-NII-1, 802.11N40, High Channel



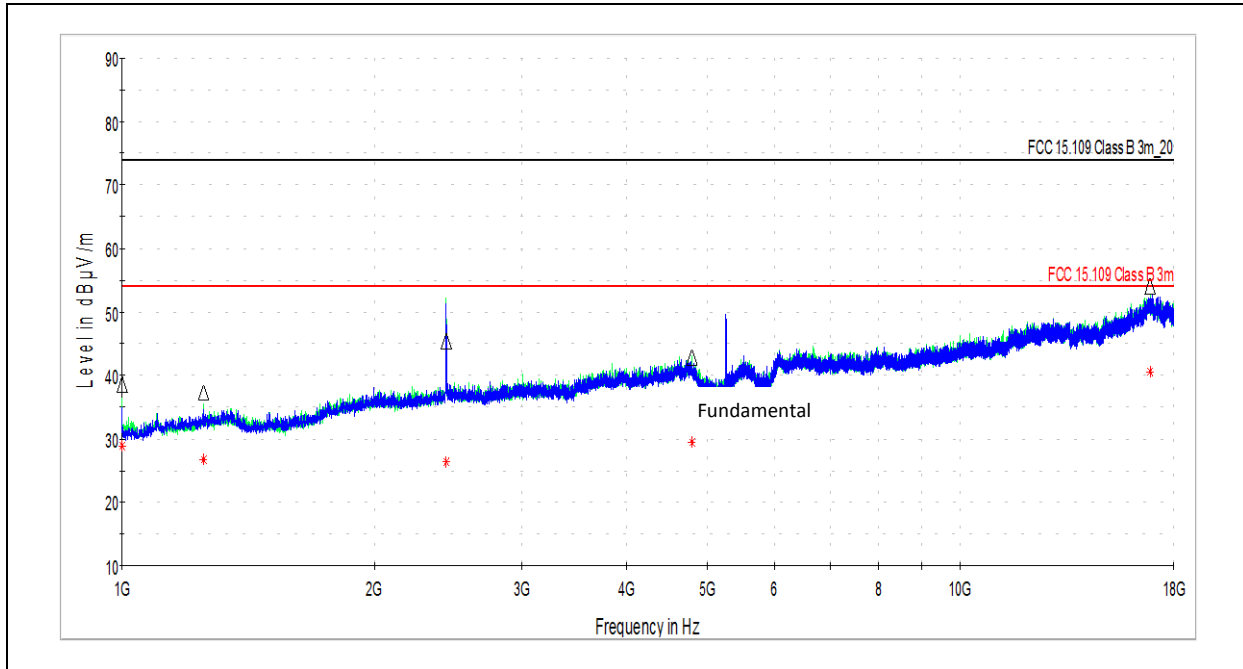
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1249.500000	36.36	74.00	37.64	1000.000	200.0	H	26.0	-1.4
2411.500000	38.99	74.00	35.01	1000.000	410.0	H	79.0	3.2
2435.000000	52.33	74.00	21.67	1000.000	212.0	V	111.0	3.3
2445.500000	42.83	74.00	31.17	1000.000	410.0	V	315.0	3.3
2449.000000	43.70	74.00	30.30	1000.000	410.0	V	304.0	3.3
16658.000000	54.04	74.00	19.96	1000.000	391.0	H	230.0	21.2

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1249.500000	23.79	54.00	30.21	1000.000	200.0	H	26.0	-1.4
2411.500000	25.36	54.00	28.64	1000.000	410.0	H	79.0	3.2
2435.000000	29.75	54.00	24.25	1000.000	212.0	V	111.0	3.3
2445.500000	25.73	54.00	28.27	1000.000	410.0	V	315.0	3.3
2449.000000	25.73	54.00	28.27	1000.000	410.0	V	304.0	3.3
16658.000000	39.85	54.00	14.15	1000.000	391.0	H	230.0	21.2

U-NII-2A, 802.11A, Low Channel



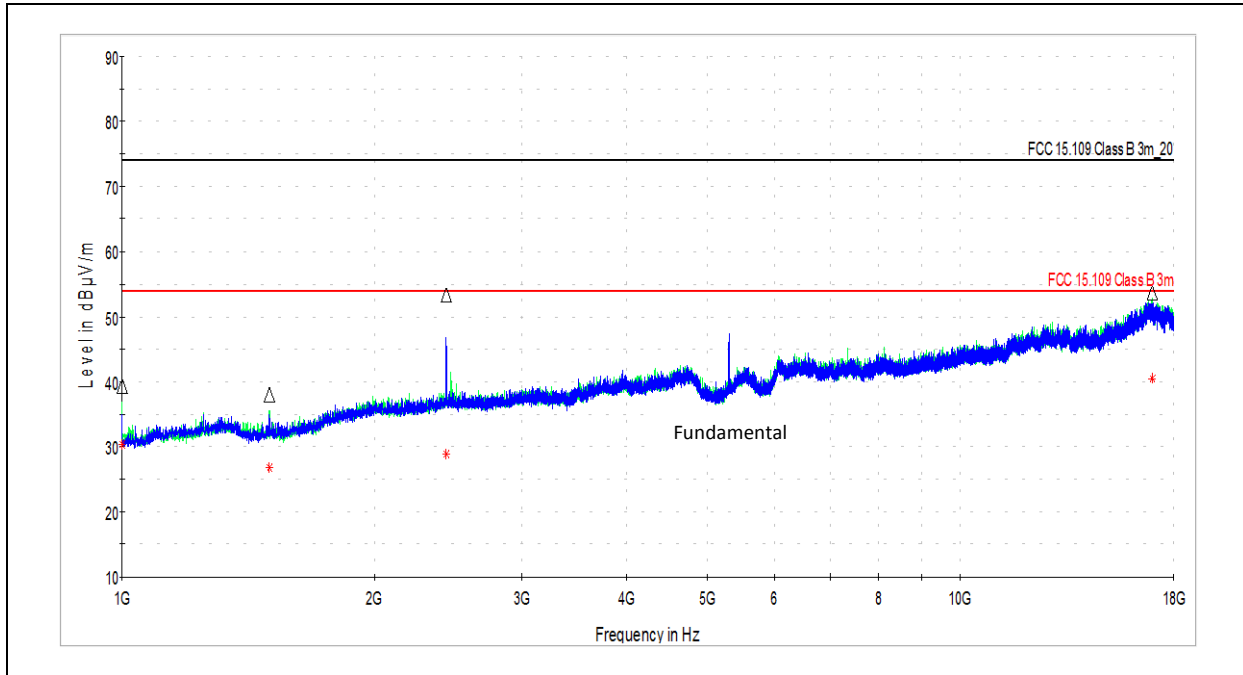
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	38.54	74.00	35.46	1000.000	100.0	H	274.0	-3.0
1250.000000	37.35	74.00	36.65	1000.000	203.0	H	24.0	-1.4
2437.500000	45.47	74.00	28.53	1000.000	345.0	H	45.0	3.4
4792.500000	42.83	74.00	31.17	1000.000	100.0	H	202.0	7.5
16858.500000	53.96	74.00	20.04	1000.000	370.0	H	244.0	21.8

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	28.94	54.00	25.06	1000.000	100.0	H	274.0	-3.0
1250.000000	26.63	54.00	27.37	1000.000	203.0	H	24.0	-1.4
2437.500000	26.34	54.00	27.66	1000.000	345.0	H	45.0	3.4
4792.500000	29.43	54.00	24.57	1000.000	100.0	H	202.0	7.5
16858.500000	40.54	54.00	13.46	1000.000	370.0	H	244.0	21.8

U-NII-2A, 802.11A, Mid Channel



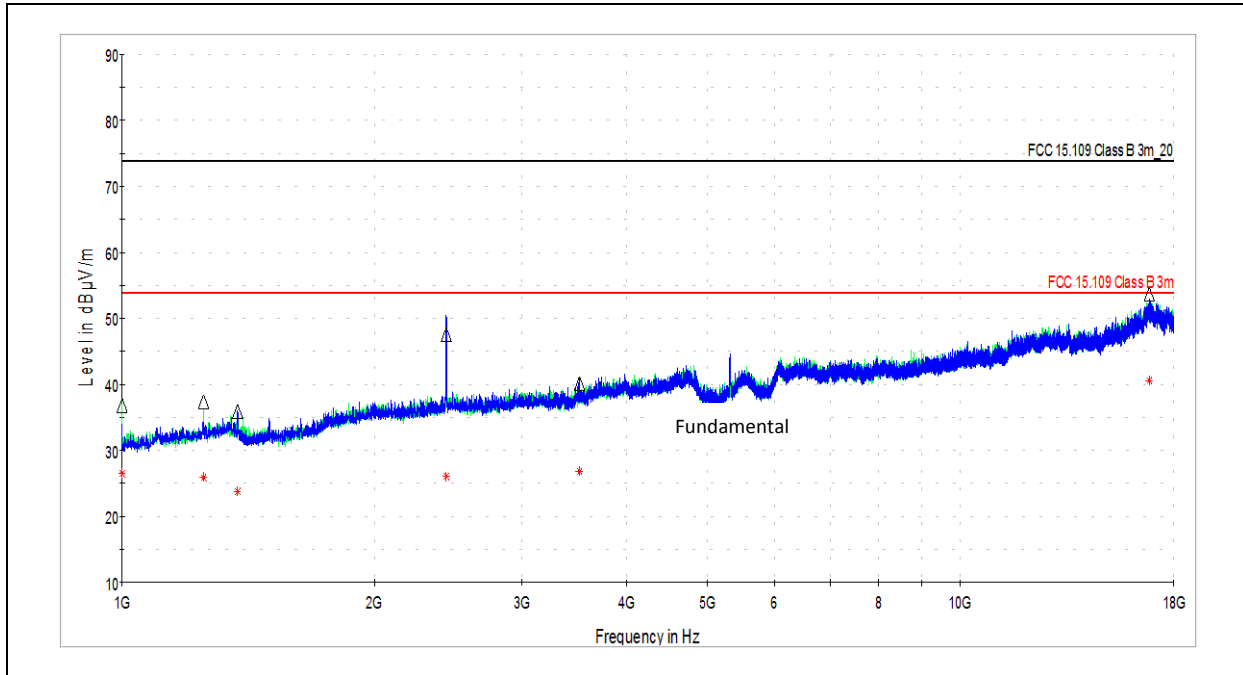
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	39.33	74.00	34.67	1000.000	167.0	H	36.0	-3.0
1500.000000	38.06	74.00	35.94	1000.000	248.0	H	313.0	-2.0
2437.500000	53.29	74.00	20.71	1000.000	242.0	V	79.0	3.3
16964.000000	53.68	74.00	20.32	1000.000	410.0	H	325.0	21.8

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	30.41	54.00	23.59	1000.000	167.0	H	36.0	-3.0
1500.000000	26.74	54.00	27.26	1000.000	248.0	H	313.0	-2.0
2437.500000	28.89	54.00	25.11	1000.000	242.0	V	79.0	3.3
16964.000000	40.52	54.00	13.48	1000.000	410.0	H	325.0	21.8

U-NII-2A, 802.11A, High Channel



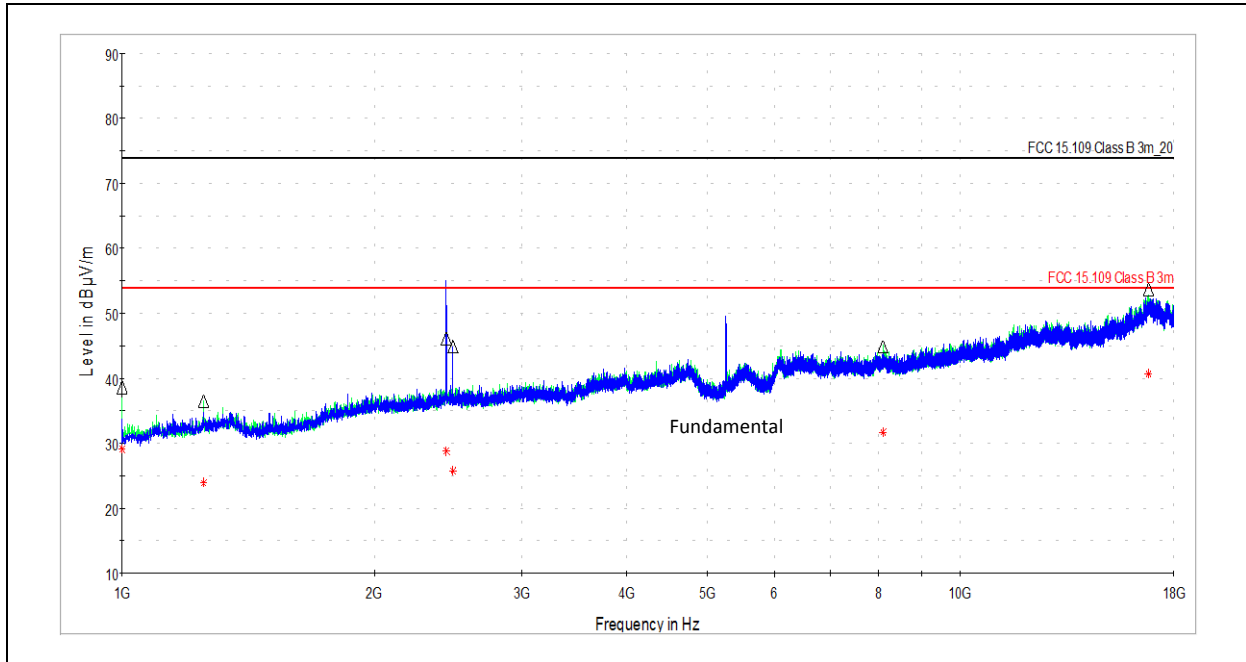
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	36.85	74.00	37.15	1000.000	218.0	H	296.0	-3.0
1249.500000	37.38	74.00	36.62	1000.000	197.0	H	35.0	-1.4
1374.500000	35.90	74.00	38.10	1000.000	202.0	V	335.0	-1.5
2437.000000	47.63	74.00	26.37	1000.000	117.0	V	46.0	3.3
3517.500000	40.13	74.00	33.87	1000.000	100.0	V	198.0	5.3
16828.500000	53.62	74.00	20.38	1000.000	410.0	V	313.0	21.7

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	26.45	54.00	27.55	1000.000	218.0	H	296.0	-3.0
1249.500000	25.98	54.00	28.02	1000.000	197.0	H	35.0	-1.4
1374.500000	23.72	54.00	30.28	1000.000	202.0	V	335.0	-1.5
2437.000000	26.07	54.00	27.93	1000.000	117.0	V	46.0	3.3
3517.500000	26.86	54.00	27.14	1000.000	100.0	V	198.0	5.3
16828.500000	40.62	54.00	13.38	1000.000	410.0	V	313.0	21.7

U-NII-2A, 802.11N, Low Channel



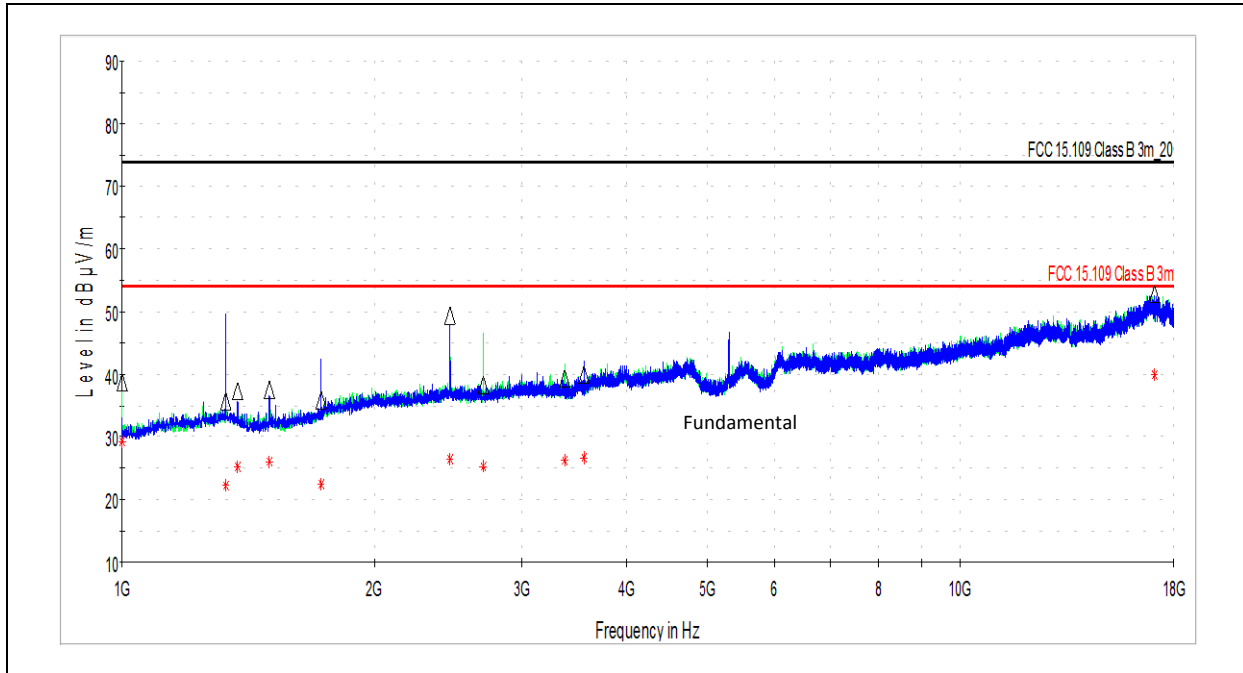
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	38.58	74.00	35.42	1000.000	159.0	H	271.0	-3.0
1249.500000	36.45	74.00	37.55	1000.000	292.0	H	8.0	-1.4
2436.000000	46.16	74.00	27.84	1000.000	133.0	V	178.0	3.3
2480.000000	44.88	74.00	29.12	1000.000	357.0	V	0.0	3.2
8086.500000	44.83	74.00	29.17	1000.000	410.0	H	281.0	10.9
16795.500000	53.64	74.00	20.36	1000.000	345.0	H	348.0	21.7

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	29.10	54.00	24.90	1000.000	159.0	H	271.0	-3.0
1249.500000	23.95	54.00	30.05	1000.000	292.0	H	8.0	-1.4
2436.000000	28.79	54.00	25.21	1000.000	133.0	V	178.0	3.3
2480.000000	25.72	54.00	28.28	1000.000	357.0	V	0.0	3.2
8086.500000	31.73	54.00	22.27	1000.000	410.0	H	281.0	10.9
16795.500000	40.66	54.00	13.34	1000.000	345.0	H	348.0	21.7

U-NII-2A, 802.11N, Mid Channel



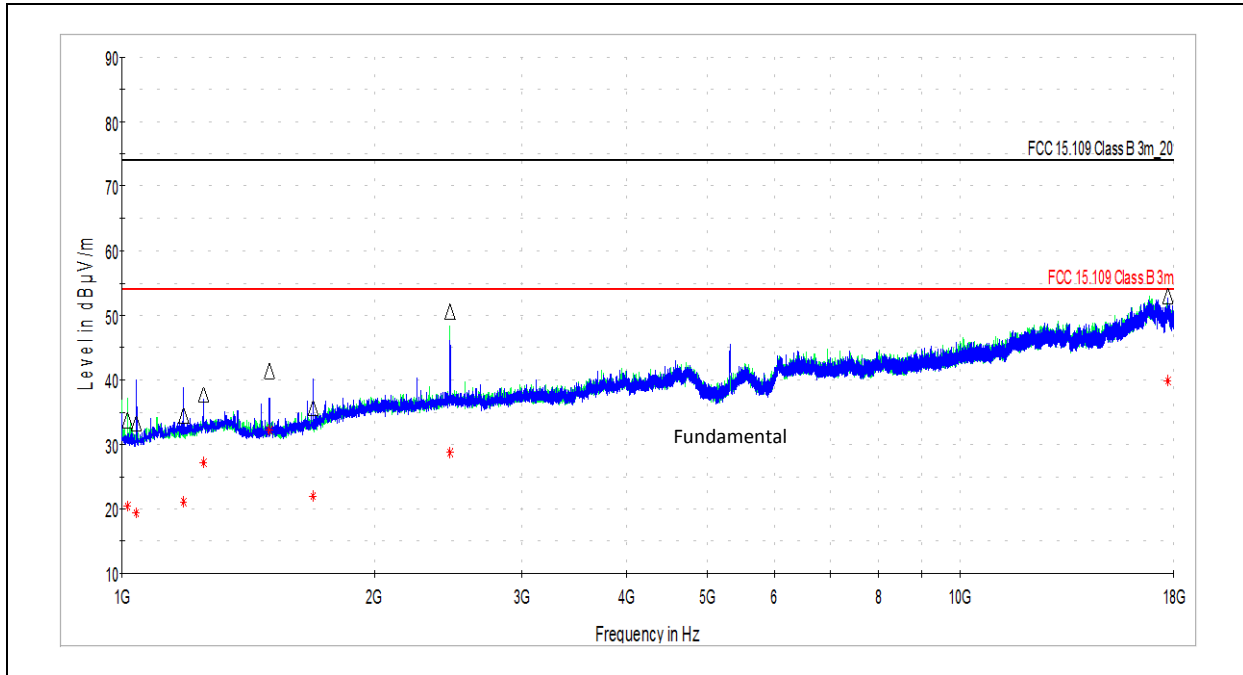
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	38.81	74.00	35.19	1000.000	287.0	H	252.0	-3.0
1330.000000	35.67	74.00	38.33	1000.000	360.0	V	0.0	-1.1
1374.500000	37.25	74.00	36.75	1000.000	268.0	V	346.0	-1.5
1499.500000	37.61	74.00	36.39	1000.000	220.0	V	338.0	-2.1
1728.500000	35.88	74.00	38.12	1000.000	378.0	V	129.0	-0.3
2462.000000	49.43	74.00	24.57	1000.000	201.0	V	157.0	3.3
2700.000000	38.31	74.00	35.69	1000.000	336.0	H	340.0	3.4
3371.500000	39.29	74.00	34.71	1000.000	396.0	H	277.0	4.6
3557.000000	40.02	74.00	33.98	1000.000	100.0	V	312.0	5.2
17062.500000	52.87	74.00	21.13	1000.000	410.0	V	212.0	21.6

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	29.31	54.00	24.69	1000.000	287.0	H	252.0	-3.0
1330.000000	22.20	54.00	31.80	1000.000	360.0	V	0.0	-1.1
1374.500000	25.27	54.00	28.73	1000.000	268.0	V	346.0	-1.5
1499.500000	26.16	54.00	27.84	1000.000	220.0	V	338.0	-2.1
1728.500000	22.47	54.00	31.53	1000.000	378.0	V	129.0	-0.3
2462.000000	26.42	54.00	27.58	1000.000	201.0	V	157.0	3.3
2700.000000	25.30	54.00	28.70	1000.000	336.0	H	340.0	3.4
3371.500000	26.19	54.00	27.81	1000.000	396.0	H	277.0	4.6
3557.000000	26.67	54.00	27.33	1000.000	100.0	V	312.0	5.2
17062.500000	39.95	54.00	14.05	1000.000	410.0	V	212.0	21.6

U-NII-2A, 802.11N, High Channel



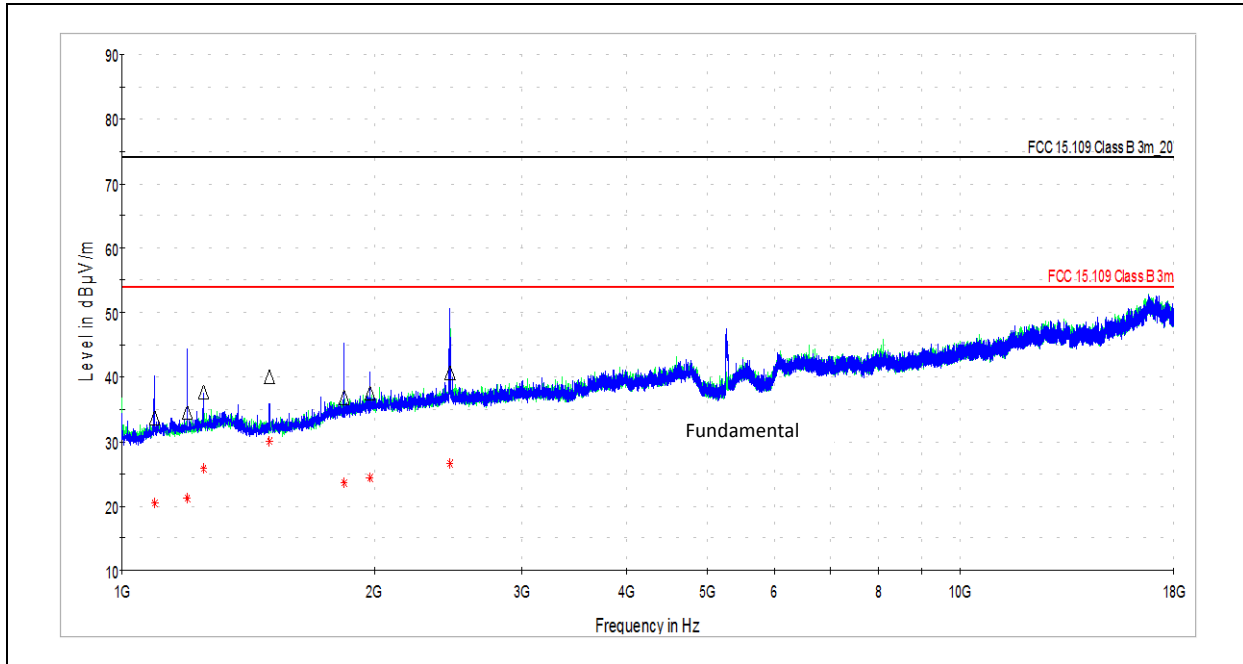
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1015.000000	33.75	74.00	40.25	1000.000	221.0	H	47.0	-3.2
1040.000000	33.26	74.00	40.74	1000.000	381.0	V	325.0	-4.0
1183.500000	34.39	74.00	39.61	1000.000	177.0	V	37.0	-2.1
1250.000000	37.82	74.00	36.18	1000.000	100.0	V	278.0	-1.2
1500.000000	41.35	74.00	32.65	1000.000	229.0	V	346.0	-2.1
1691.000000	35.75	74.00	38.25	1000.000	399.0	V	314.0	-0.8
2462.500000	50.61	74.00	23.39	1000.000	115.0	H	68.0	3.5
17697.500000	53.06	74.00	20.94	1000.000	410.0	V	222.0	20.8

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1015.000000	20.38	54.00	33.62	1000.000	221.0	H	47.0	-3.2
1040.000000	19.43	54.00	34.57	1000.000	381.0	V	325.0	-4.0
1183.500000	21.10	54.00	32.90	1000.000	177.0	V	37.0	-2.1
1250.000000	27.22	54.00	26.78	1000.000	100.0	V	278.0	-1.2
1500.000000	32.16	54.00	21.84	1000.000	229.0	V	346.0	-2.1
1691.000000	21.96	54.00	32.04	1000.000	399.0	V	314.0	-0.8
2462.500000	28.74	54.00	25.26	1000.000	115.0	H	68.0	3.5
17697.500000	39.83	54.00	14.17	1000.000	410.0	V	222.0	20.8

U-NII-2A, 802.11N40, Low Channel



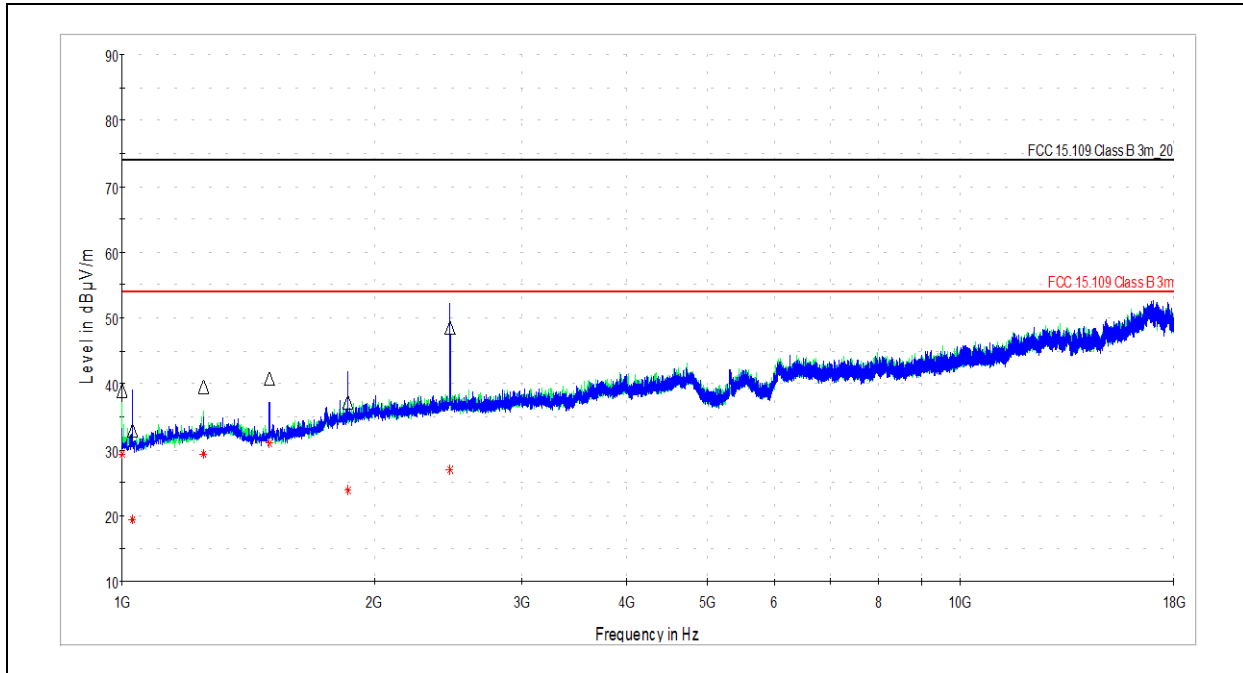
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1094.000000	33.72	74.00	40.28	1000.000	168.0	V	324.0	-3.2
1196.000000	34.55	74.00	39.45	1000.000	368.0	V	326.0	-2.0
1249.500000	37.66	74.00	36.34	1000.000	290.0	V	222.0	-1.3
1500.000000	40.08	74.00	33.92	1000.000	279.0	V	337.0	-2.1
1841.500000	36.83	74.00	37.17	1000.000	285.0	V	193.0	1.1
1976.000000	37.50	74.00	36.50	1000.000	100.0	V	189.0	1.8
2460.000000	40.73	74.00	33.27	1000.000	158.0	V	0.0	3.3

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1094.000000	20.44	54.00	33.56	1000.000	168.0	V	324.0	-3.2
1196.000000	21.22	54.00	32.78	1000.000	368.0	V	326.0	-2.0
1249.500000	25.87	54.00	28.13	1000.000	290.0	V	222.0	-1.3
1500.000000	30.11	54.00	23.89	1000.000	279.0	V	337.0	-2.1
1841.500000	23.52	54.00	30.48	1000.000	285.0	V	193.0	1.1
1976.000000	24.39	54.00	29.61	1000.000	100.0	V	189.0	1.8
2460.000000	26.67	54.00	27.33	1000.000	158.0	V	0.0	3.3

U-NII-2A, 802.11N40, High Channel



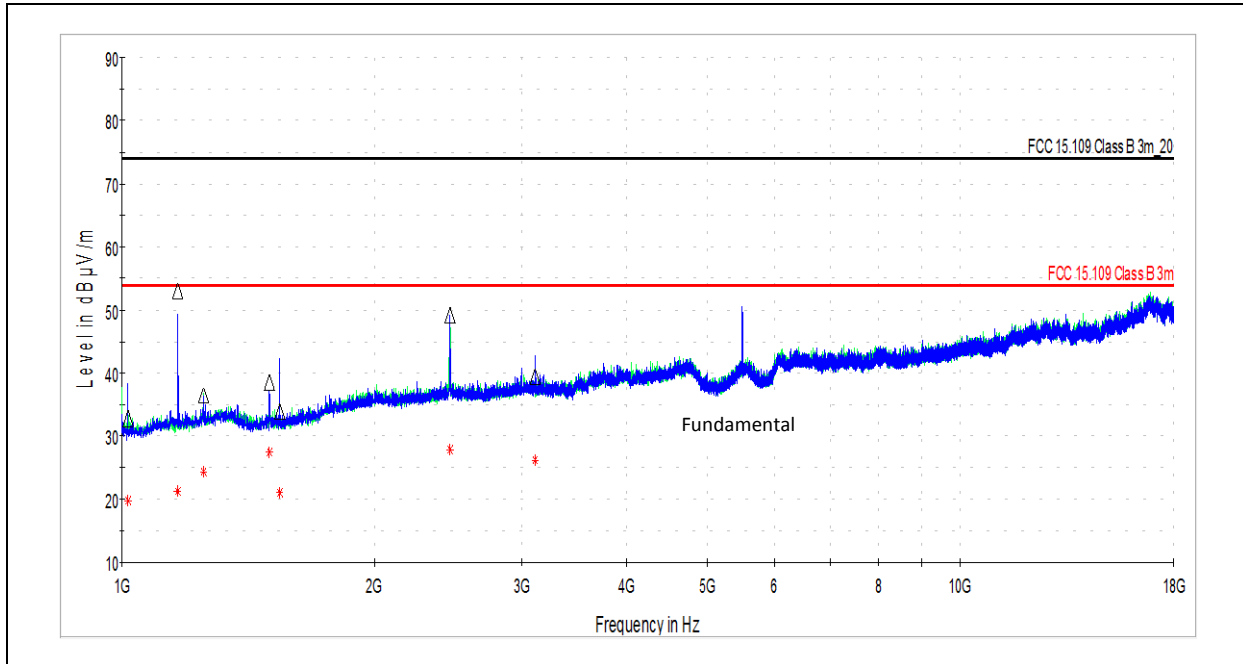
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	38.94	74.00	35.06	1000.000	291.0	H	252.0	-3.0
1028.000000	32.96	74.00	41.04	1000.000	151.0	V	327.0	-3.9
1250.000000	39.62	74.00	34.38	1000.000	211.0	H	37.0	-1.4
1500.000000	40.85	74.00	33.15	1000.000	226.0	V	341.0	-2.1
1859.000000	37.26	74.00	36.74	1000.000	362.0	V	-1.0	1.2
2462.500000	48.49	74.00	25.51	1000.000	147.0	V	0.0	3.3

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	29.34	54.00	24.66	1000.000	291.0	H	252.0	-3.0
1028.000000	19.40	54.00	34.60	1000.000	151.0	V	327.0	-3.9
1250.000000	29.40	54.00	24.60	1000.000	211.0	H	37.0	-1.4
1500.000000	31.03	54.00	22.97	1000.000	226.0	V	341.0	-2.1
1859.000000	23.77	54.00	30.23	1000.000	362.0	V	-1.0	1.2
2462.500000	27.02	54.00	26.98	1000.000	147.0	V	0.0	3.3

U-NII-2C, 802.11A, Low Channel



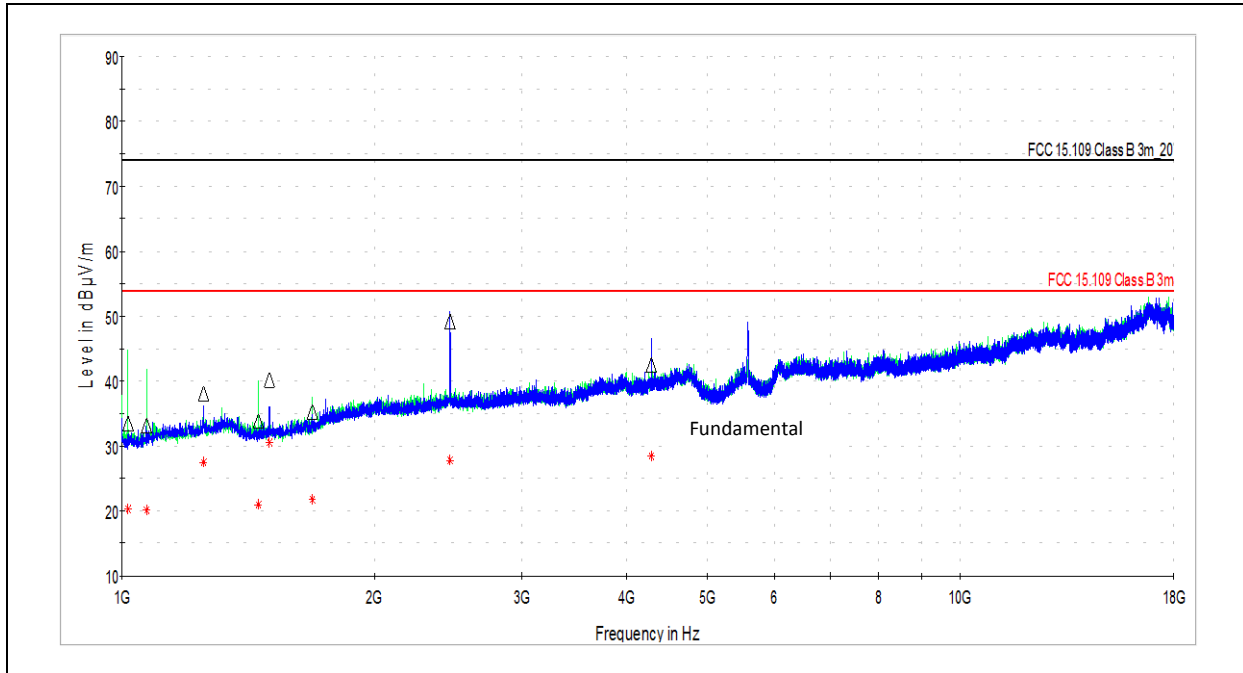
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1016.000000	32.85	74.00	41.15	1000.000	133.0	V	161.0	-3.9
1165.500000	52.95	74.00	21.05	1000.000	295.0	V	344.0	-2.3
1249.500000	36.56	74.00	37.44	1000.000	100.0	H	291.0	-1.4
1499.500000	38.46	74.00	35.54	1000.000	229.0	V	345.0	-2.1
1542.000000	33.99	74.00	40.01	1000.000	410.0	V	166.0	-1.9
2462.500000	49.21	74.00	24.79	1000.000	214.0	V	336.0	3.3
3113.500000	39.48	74.00	34.52	1000.000	410.0	V	0.0	4.6

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1016.000000	19.69	54.00	34.31	1000.000	133.0	V	161.0	-3.9
1165.500000	21.22	54.00	32.78	1000.000	295.0	V	344.0	-2.3
1249.500000	24.36	54.00	29.64	1000.000	100.0	H	291.0	-1.4
1499.500000	27.52	54.00	26.48	1000.000	229.0	V	345.0	-2.1
1542.000000	21.03	54.00	32.97	1000.000	410.0	V	166.0	-1.9
2462.500000	27.80	54.00	26.20	1000.000	214.0	V	336.0	3.3
3113.500000	26.19	54.00	27.81	1000.000	410.0	V	0.0	4.6

U-NII-2C, 802.11A, Mid Channel



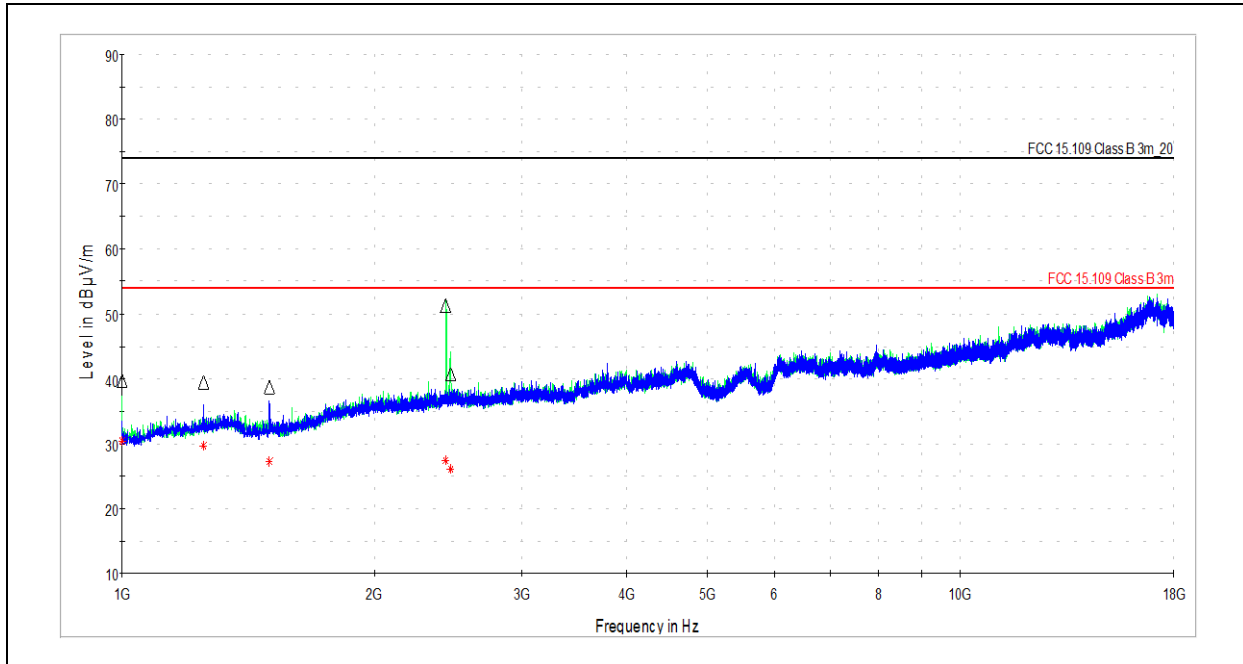
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1015.500000	33.45	74.00	40.55	1000.000	314.0	H	313.0	-3.2
1070.500000	33.23	74.00	40.77	1000.000	211.0	H	36.0	-3.4
1250.000000	38.07	74.00	35.93	1000.000	228.0	V	38.0	-1.2
1454.000000	33.82	74.00	40.18	1000.000	410.0	H	112.0	-1.9
1500.000000	40.25	74.00	33.75	1000.000	223.0	V	340.0	-2.1
1685.000000	35.26	74.00	38.74	1000.000	355.0	H	62.0	-1.0
2463.500000	49.21	74.00	24.79	1000.000	344.0	V	266.0	3.3
4286.000000	42.54	74.00	31.46	1000.000	410.0	V	313.0	6.4

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1015.500000	20.27	54.00	33.73	1000.000	314.0	H	313.0	-3.2
1070.500000	20.17	54.00	33.83	1000.000	211.0	H	36.0	-3.4
1250.000000	27.42	54.00	26.58	1000.000	228.0	V	38.0	-1.2
1454.000000	20.90	54.00	33.10	1000.000	410.0	H	112.0	-1.9
1500.000000	30.57	54.00	23.43	1000.000	223.0	V	340.0	-2.1
1685.000000	21.75	54.00	32.25	1000.000	355.0	H	62.0	-1.0
2463.500000	27.78	54.00	26.22	1000.000	344.0	V	266.0	3.3
4286.000000	28.53	54.00	25.47	1000.000	410.0	V	313.0	6.4

U-NII-2C, 802.11A, High Channel



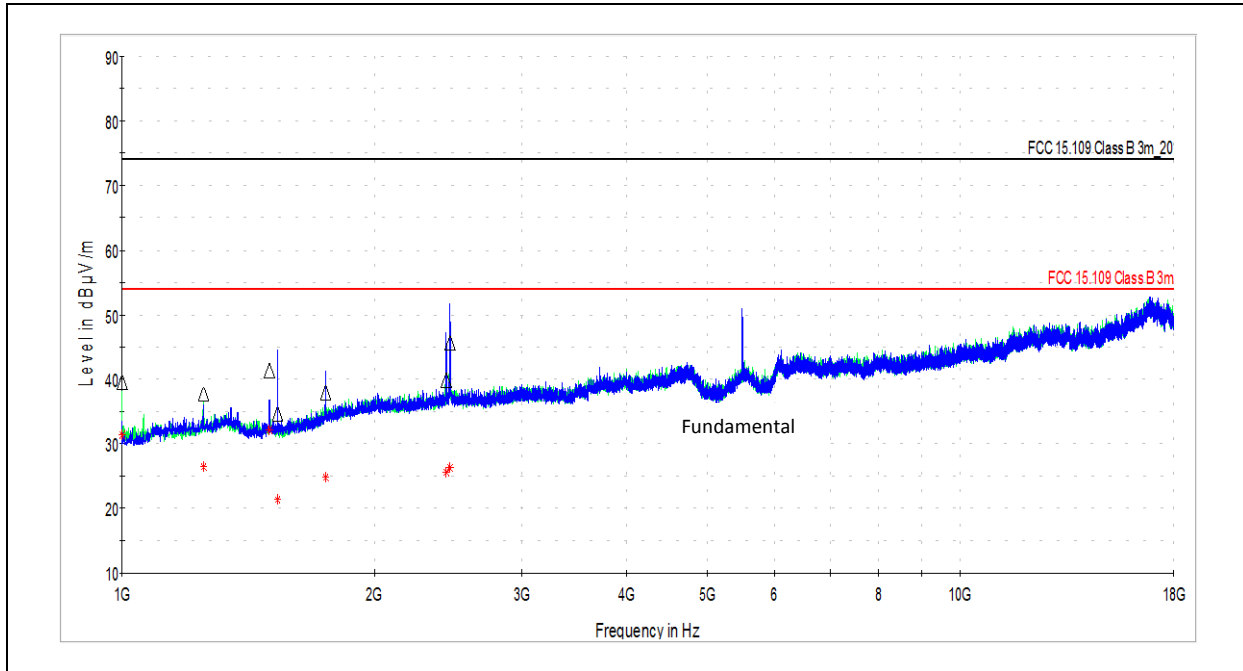
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	39.57	74.00	34.43	1000.000	287.0	H	256.0	-3.0
1250.000000	39.44	74.00	34.56	1000.000	211.0	H	309.0	-1.4
1499.500000	38.73	74.00	35.27	1000.000	226.0	V	344.0	-2.1
2433.500000	51.23	74.00	22.77	1000.000	383.0	H	0.0	3.4
2468.000000	40.73	74.00	33.27	1000.000	303.0	H	331.0	3.5

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	30.43	54.00	23.57	1000.000	287.0	H	256.0	-3.0
1250.000000	29.65	54.00	24.35	1000.000	211.0	H	309.0	-1.4
1499.500000	27.31	54.00	26.69	1000.000	226.0	V	344.0	-2.1
2433.500000	27.35	54.00	26.65	1000.000	383.0	H	0.0	3.4
2468.000000	25.99	54.00	28.01	1000.000	303.0	H	331.0	3.5

U-NII-2C, 802.11N, Low Channel



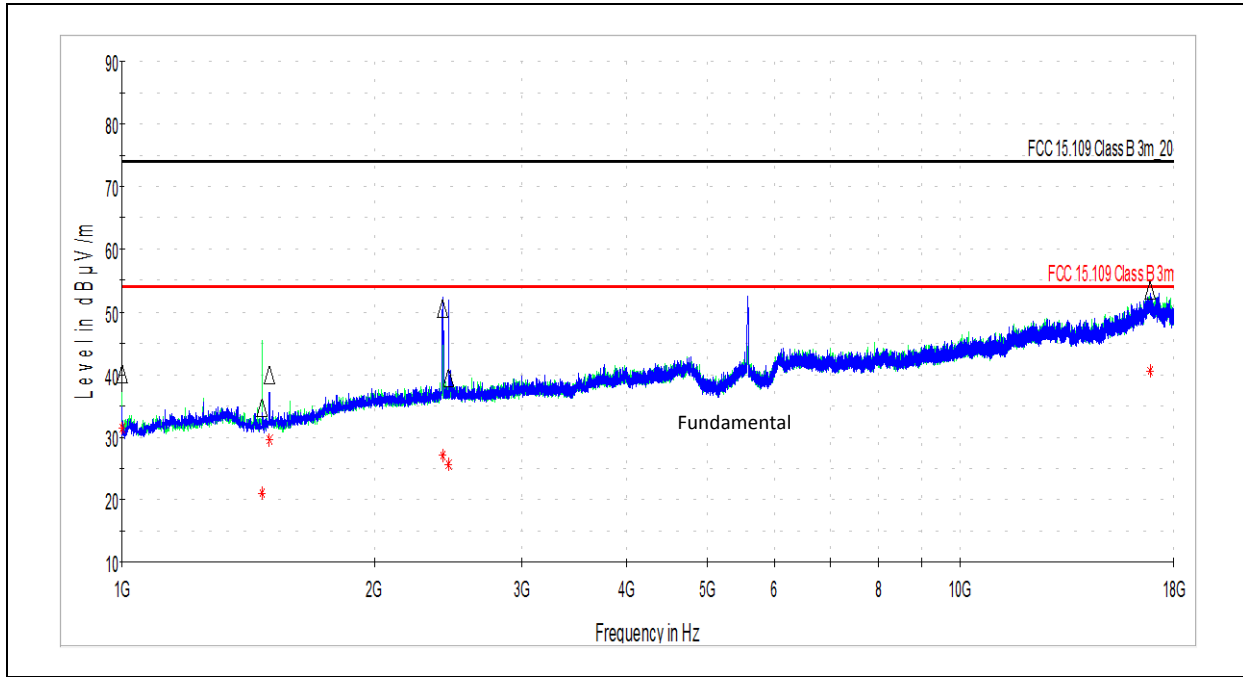
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	39.64	74.00	34.36	1000.000	288.0	H	262.0	-3.0
1249.500000	37.68	74.00	36.32	1000.000	109.0	H	302.0	-1.4
1500.000000	41.34	74.00	32.66	1000.000	228.0	V	346.0	-2.1
1533.000000	34.58	74.00	39.42	1000.000	277.0	V	0.0	-2.0
1750.500000	37.99	74.00	36.01	1000.000	176.0	V	340.0	0.1
2436.000000	39.83	74.00	34.17	1000.000	100.0	V	80.0	3.3
2460.500000	45.71	74.00	28.29	1000.000	312.0	V	304.0	3.3

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	31.31	54.00	22.69	1000.000	288.0	H	262.0	-3.0
1249.500000	26.35	54.00	27.65	1000.000	109.0	H	302.0	-1.4
1500.000000	32.13	54.00	21.87	1000.000	228.0	V	346.0	-2.1
1533.000000	21.27	54.00	32.73	1000.000	277.0	V	0.0	-2.0
1750.500000	24.84	54.00	29.16	1000.000	176.0	V	340.0	0.1
2436.000000	25.60	54.00	28.40	1000.000	100.0	V	80.0	3.3
2460.500000	26.20	54.00	27.80	1000.000	312.0	V	304.0	3.3

U-NII-2C, 802.11N, Mid Channel



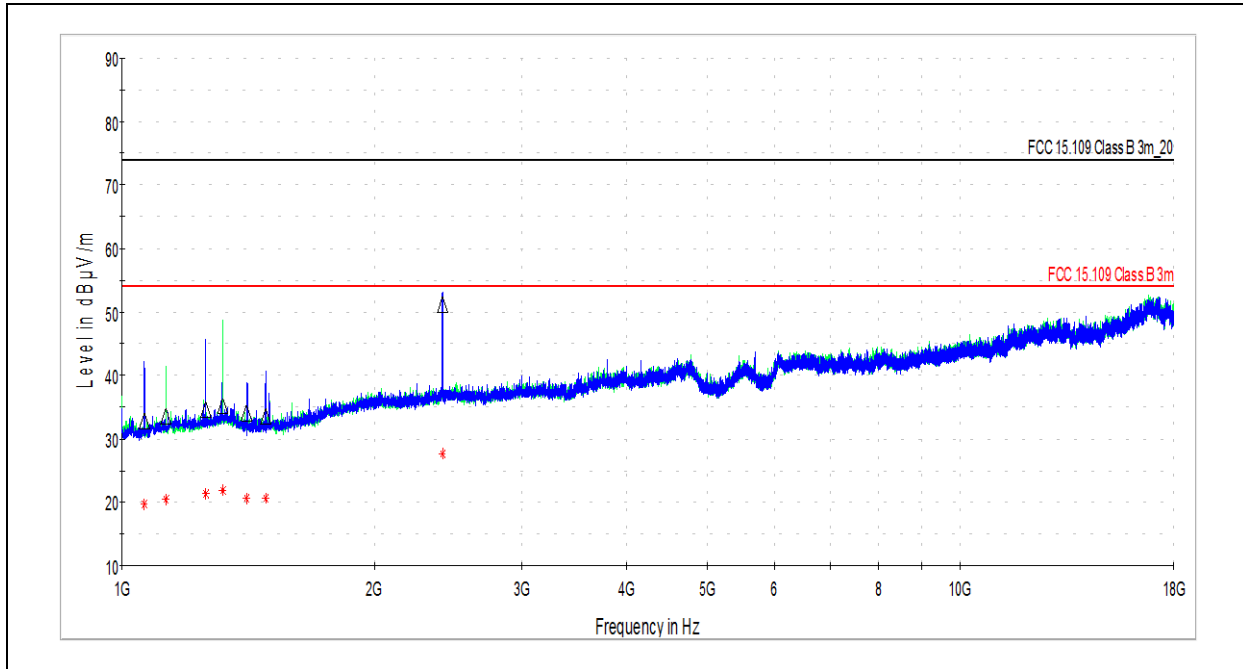
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	40.09	74.00	33.91	1000.000	109.0	H	54.0	-3.0
1468.500000	34.72	74.00	39.28	1000.000	410.0	H	335.0	-2.0
1500.000000	39.98	74.00	34.02	1000.000	211.0	V	0.0	-2.1
2411.500000	50.49	74.00	23.51	1000.000	201.0	V	46.0	3.2
2454.000000	39.42	74.00	34.58	1000.000	410.0	V	0.0	3.3
16882.000000	53.49	74.00	20.51	1000.000	372.0	V	160.0	21.9

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	31.31	54.00	22.69	1000.000	109.0	H	54.0	-3.0
1468.500000	20.97	54.00	33.03	1000.000	410.0	H	335.0	-2.0
1500.000000	29.53	54.00	24.47	1000.000	211.0	V	0.0	-2.1
2411.500000	27.04	54.00	26.96	1000.000	201.0	V	46.0	3.2
2454.000000	25.67	54.00	28.33	1000.000	410.0	V	0.0	3.3
16882.000000	40.57	54.00	13.43	1000.000	372.0	V	160.0	21.9

U-NII-2C, 802.11N, High Channel



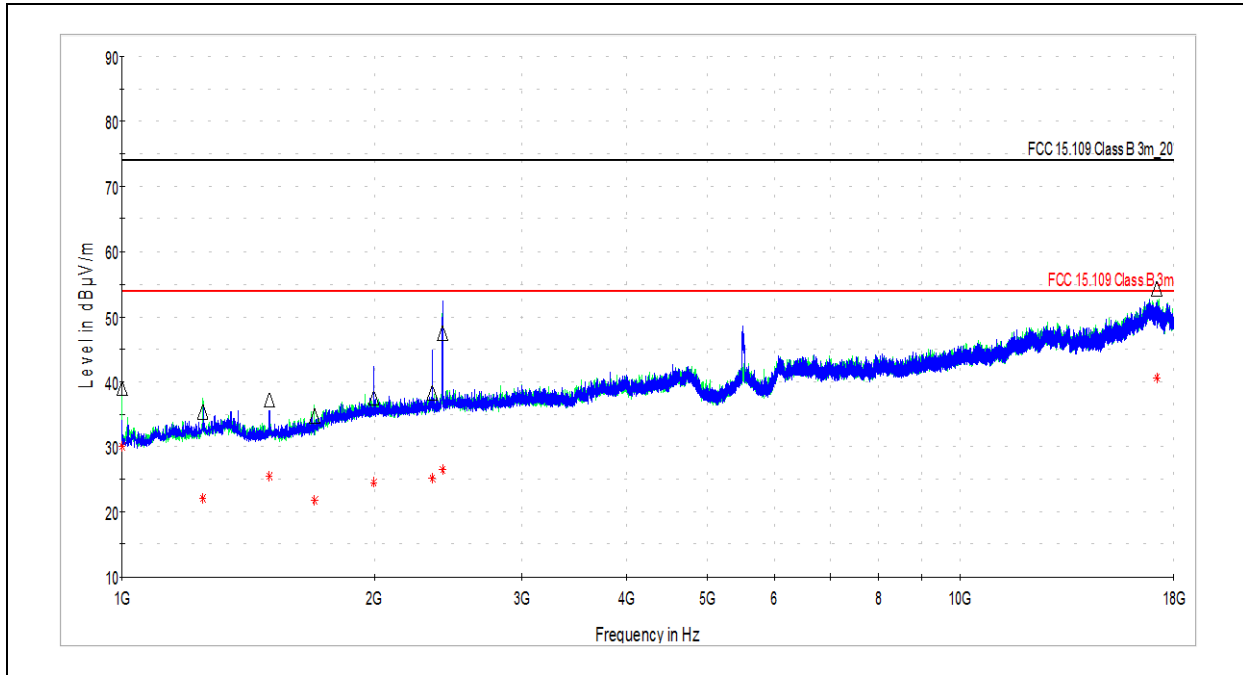
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1064.000000	32.89	74.00	41.11	1000.000	325.0	V	198.0	-3.7
1128.000000	33.48	74.00	40.52	1000.000	187.0	H	26.0	-2.9
1259.000000	34.64	74.00	39.36	1000.000	223.0	V	315.0	-1.2
1318.500000	35.08	74.00	38.92	1000.000	399.0	H	37.0	-1.3
1408.000000	34.11	74.00	39.89	1000.000	288.0	V	346.0	-2.1
1482.500000	33.61	74.00	40.39	1000.000	276.0	V	344.0	-2.2
2410.500000	51.16	74.00	22.84	1000.000	317.0	V	0.0	3.2

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1064.000000	19.72	54.00	34.28	1000.000	325.0	V	198.0	-3.7
1128.000000	20.37	54.00	33.63	1000.000	187.0	H	26.0	-2.9
1259.000000	21.41	54.00	32.59	1000.000	223.0	V	315.0	-1.2
1318.500000	21.91	54.00	32.09	1000.000	399.0	H	37.0	-1.3
1408.000000	20.55	54.00	33.45	1000.000	288.0	V	346.0	-2.1
1482.500000	20.68	54.00	33.32	1000.000	276.0	V	344.0	-2.2
2410.500000	27.70	54.00	26.30	1000.000	317.0	V	0.0	3.2

U-NII-2C, 802.11N40, Low Channel



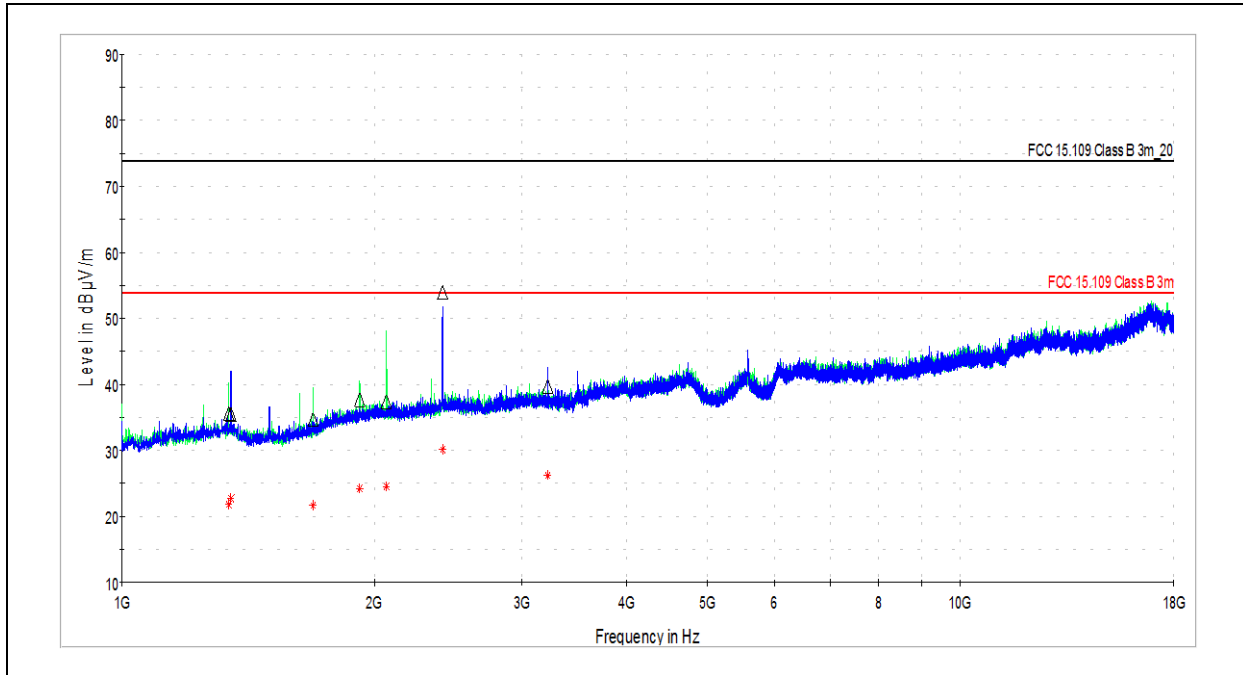
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	39.00	74.00	35.00	1000.000	296.0	H	270.0	-3.0
1248.000000	35.37	74.00	38.63	1000.000	184.0	H	0.0	-1.4
1499.500000	37.23	74.00	36.77	1000.000	210.0	V	-1.0	-2.1
1696.500000	34.82	74.00	39.18	1000.000	410.0	H	38.0	-1.0
1996.000000	37.58	74.00	36.42	1000.000	259.0	V	191.0	2.0
2346.500000	38.41	74.00	35.59	1000.000	410.0	V	140.0	2.9
2413.000000	47.53	74.00	26.47	1000.000	255.0	V	227.0	3.2
17170.000000	54.29	74.00	19.71	1000.000	253.0	H	134.0	22.2

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1000.000000	30.12	54.00	23.88	1000.000	296.0	H	270.0	-3.0
1248.000000	22.07	54.00	31.93	1000.000	184.0	H	0.0	-1.4
1499.500000	25.44	54.00	28.56	1000.000	210.0	V	-1.0	-2.1
1696.500000	21.70	54.00	32.30	1000.000	410.0	H	38.0	-1.0
1996.000000	24.47	54.00	29.53	1000.000	259.0	V	191.0	2.0
2346.500000	25.23	54.00	28.77	1000.000	410.0	V	140.0	2.9
2413.000000	26.50	54.00	27.50	1000.000	255.0	V	227.0	3.2
17170.000000	40.71	54.00	13.29	1000.000	253.0	H	134.0	22.2

U-NII-2C, 802.11N40, Mid Channel



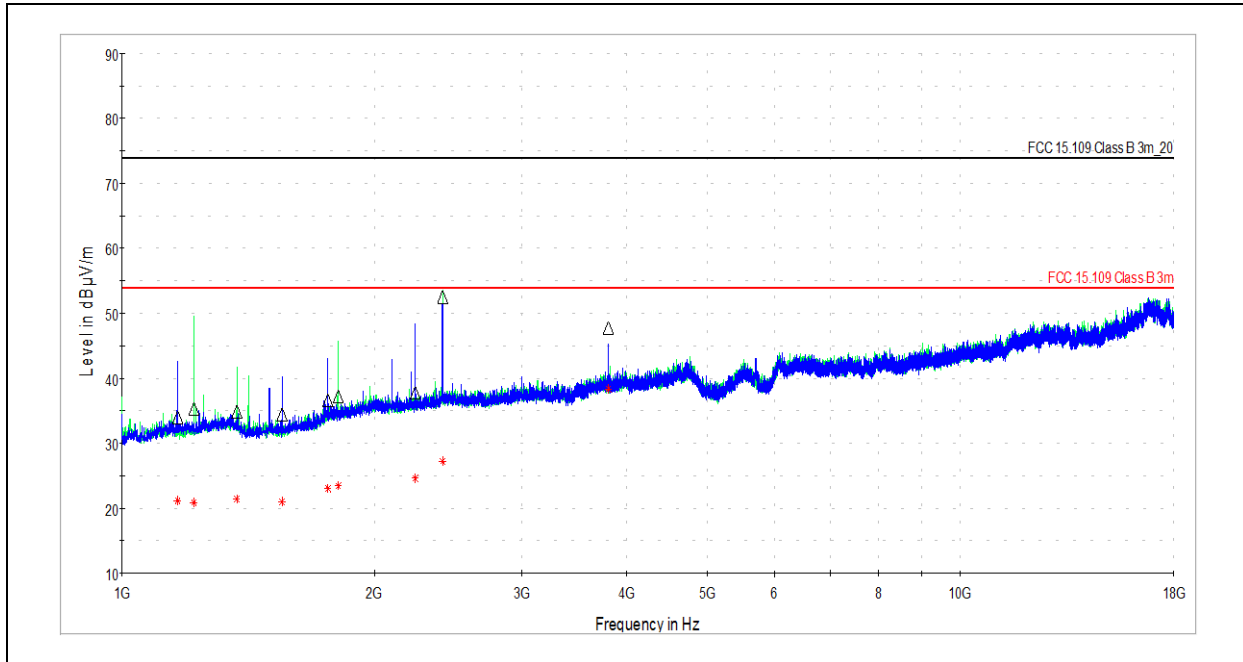
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1339.000000	35.55	74.00	38.45	1000.000	374.0	H	68.0	-1.3
1349.500000	35.41	74.00	38.59	1000.000	317.0	V	337.0	-1.0
1690.500000	34.77	74.00	39.23	1000.000	354.0	H	181.0	-1.0
1923.000000	37.77	74.00	36.23	1000.000	410.0	H	284.0	1.6
2069.000000	37.50	74.00	36.50	1000.000	410.0	H	74.0	2.0
2414.500000	53.89	74.00	20.11	1000.000	243.0	V	188.0	3.2
3220.000000	39.63	74.00	34.37	1000.000	341.0	V	0.0	4.5

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1339.000000	21.78	54.00	32.22	1000.000	374.0	H	68.0	-1.3
1349.500000	22.73	54.00	31.27	1000.000	317.0	V	337.0	-1.0
1690.500000	21.72	54.00	32.28	1000.000	354.0	H	181.0	-1.0
1923.000000	24.25	54.00	29.75	1000.000	410.0	H	284.0	1.6
2069.000000	24.51	54.00	29.49	1000.000	410.0	H	74.0	2.0
2414.500000	30.21	54.00	23.79	1000.000	243.0	V	188.0	3.2
3220.000000	26.16	54.00	27.84	1000.000	341.0	V	0.0	4.5

U-NII-2C, 802.11N40, High Channel



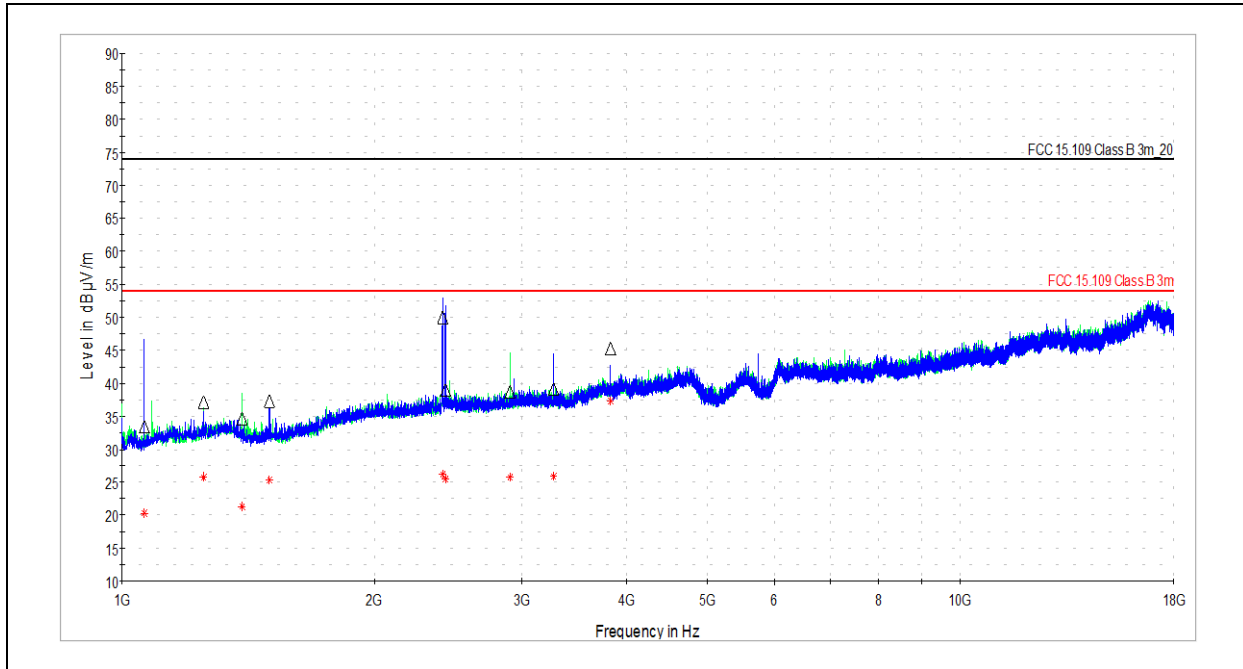
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1164.000000	34.00	74.00	40.00	1000.000	410.0	V	318.0	-2.3
1217.500000	35.35	74.00	38.65	1000.000	200.0	H	105.0	-2.0
1371.500000	34.94	74.00	39.06	1000.000	410.0	H	0.0	-1.4
1551.500000	34.39	74.00	39.61	1000.000	410.0	V	342.0	-1.9
1759.000000	36.63	74.00	37.37	1000.000	410.0	V	0.0	0.3
1809.500000	37.24	74.00	36.76	1000.000	410.0	H	319.0	0.9
2237.500000	37.73	74.00	36.27	1000.000	100.0	V	0.0	2.4
2412.000000	52.57	74.00	21.43	1000.000	410.0	H	0.0	3.2
3806.500000	47.80	74.00	26.20	1000.000	295.0	V	112.0	6.1

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1164.000000	21.19	54.00	32.81	1000.000	410.0	V	318.0	-2.3
1217.500000	20.81	54.00	33.19	1000.000	200.0	H	105.0	-2.0
1371.500000	21.43	54.00	32.57	1000.000	410.0	H	0.0	-1.4
1551.500000	21.01	54.00	32.99	1000.000	410.0	V	342.0	-1.9
1759.000000	23.07	54.00	30.93	1000.000	410.0	V	0.0	0.3
1809.500000	23.39	54.00	30.61	1000.000	410.0	H	319.0	0.9
2237.500000	24.67	54.00	29.33	1000.000	100.0	V	0.0	2.4
2412.000000	27.21	54.00	26.79	1000.000	410.0	H	0.0	3.2
3806.500000	38.38	54.00	15.62	1000.000	295.0	V	112.0	6.1

U-NII-3, 802.11A, Low Channel



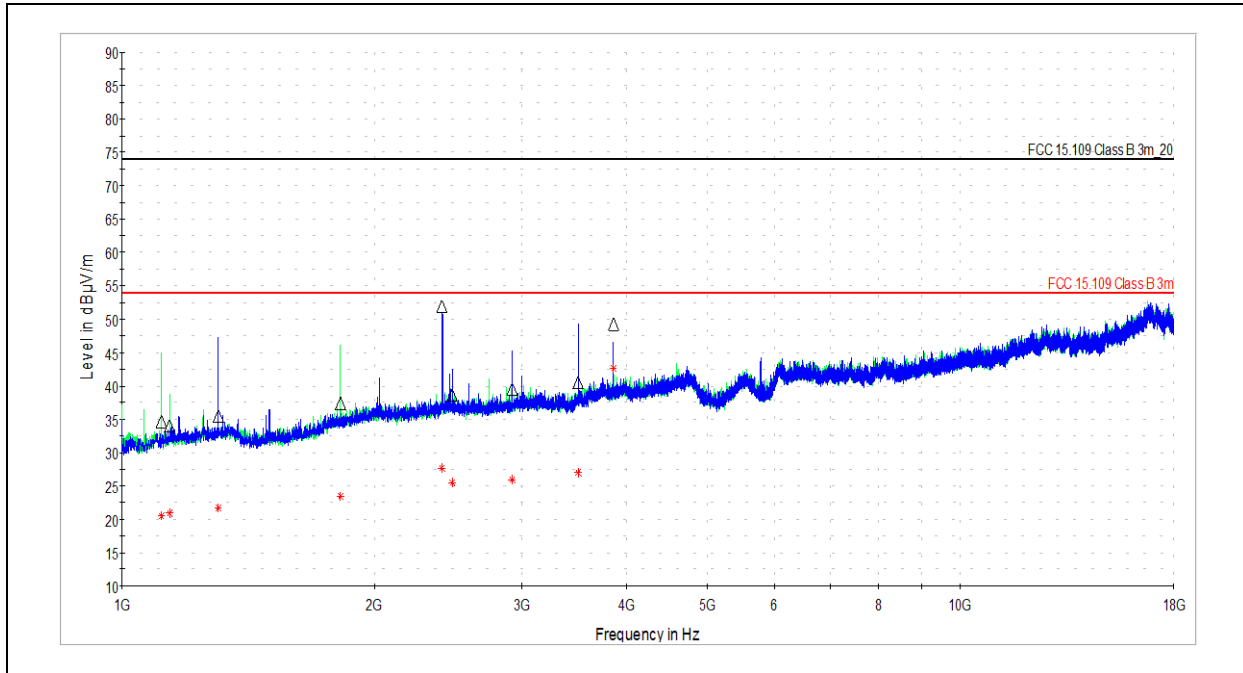
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1063.000000	33.48	74.00	40.52	1000.000	145.0	V	0.0	-3.7
1249.500000	37.15	74.00	36.85	1000.000	298.0	H	290.0	-1.4
1389.500000	34.64	74.00	39.36	1000.000	410.0	H	45.0	-1.5
1499.500000	37.38	74.00	36.62	1000.000	216.0	V	0.0	-2.1
2412.000000	50.00	74.00	24.00	1000.000	287.0	V	340.0	3.2
2430.000000	38.98	74.00	35.02	1000.000	410.0	V	59.0	3.3
2905.500000	38.67	74.00	35.33	1000.000	410.0	H	26.0	3.9
3274.000000	39.17	74.00	34.83	1000.000	100.0	V	0.0	4.6
3830.000000	45.25	74.00	28.75	1000.000	272.0	V	94.0	6.1

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1063.000000	20.27	54.00	33.73	1000.000	145.0	V	0.0	-3.7
1249.500000	25.75	54.00	28.25	1000.000	298.0	H	290.0	-1.4
1389.500000	21.33	54.00	32.67	1000.000	410.0	H	45.0	-1.5
1499.500000	25.40	54.00	28.60	1000.000	216.0	V	0.0	-2.1
2412.000000	26.17	54.00	27.83	1000.000	287.0	V	340.0	3.2
2430.000000	25.52	54.00	28.48	1000.000	410.0	V	59.0	3.3
2905.500000	25.80	54.00	28.20	1000.000	410.0	H	26.0	3.9
3274.000000	25.94	54.00	28.06	1000.000	100.0	V	0.0	4.6
3830.000000	37.33	54.00	16.67	1000.000	272.0	V	94.0	6.1

U-NII-3, 802.11A, Mid Channel



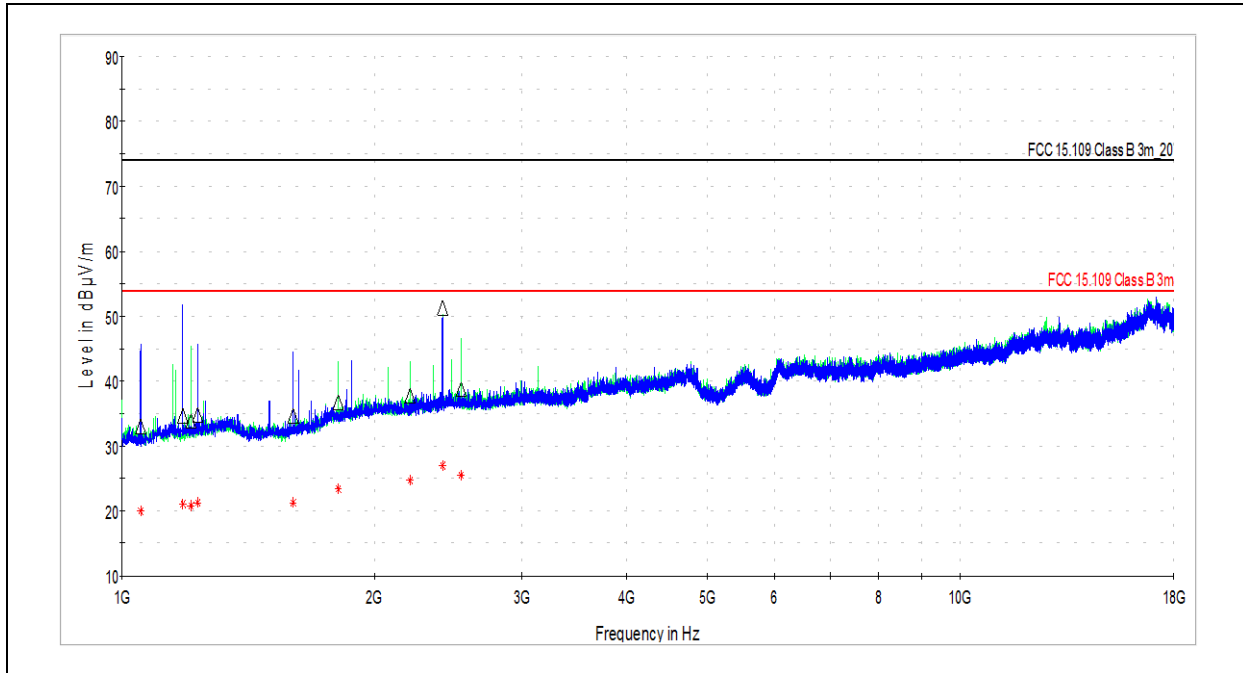
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1114.000000	34.63	74.00	39.37	1000.000	254.0	H	296.0	-2.9
1138.500000	34.02	74.00	39.98	1000.000	133.0	H	91.0	-3.0
1302.000000	35.45	74.00	38.55	1000.000	341.0	V	0.0	-1.2
1823.000000	37.38	74.00	36.62	1000.000	410.0	H	293.0	1.0
2410.000000	51.97	74.00	22.03	1000.000	100.0	V	166.0	3.2
2479.500000	38.58	74.00	35.42	1000.000	100.0	V	45.0	3.2
2920.000000	39.52	74.00	34.48	1000.000	116.0	V	324.0	4.0
3501.500000	40.44	74.00	33.56	1000.000	410.0	V	37.0	5.4
3856.500000	49.24	74.00	24.76	1000.000	262.0	V	137.0	6.0

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1114.000000	20.51	54.00	33.49	1000.000	254.0	H	296.0	-2.9
1138.500000	20.92	54.00	33.08	1000.000	133.0	H	91.0	-3.0
1302.000000	21.76	54.00	32.24	1000.000	341.0	V	0.0	-1.2
1823.000000	23.53	54.00	30.47	1000.000	410.0	H	293.0	1.0
2410.000000	27.66	54.00	26.34	1000.000	100.0	V	166.0	3.2
2479.500000	25.56	54.00	28.44	1000.000	100.0	V	45.0	3.2
2920.000000	25.92	54.00	28.08	1000.000	116.0	V	324.0	4.0
3501.500000	26.99	54.00	27.01	1000.000	410.0	V	37.0	5.4
3856.500000	42.69	54.00	11.31	1000.000	262.0	V	137.0	6.0

U-NII-3, 802.11A, High Channel



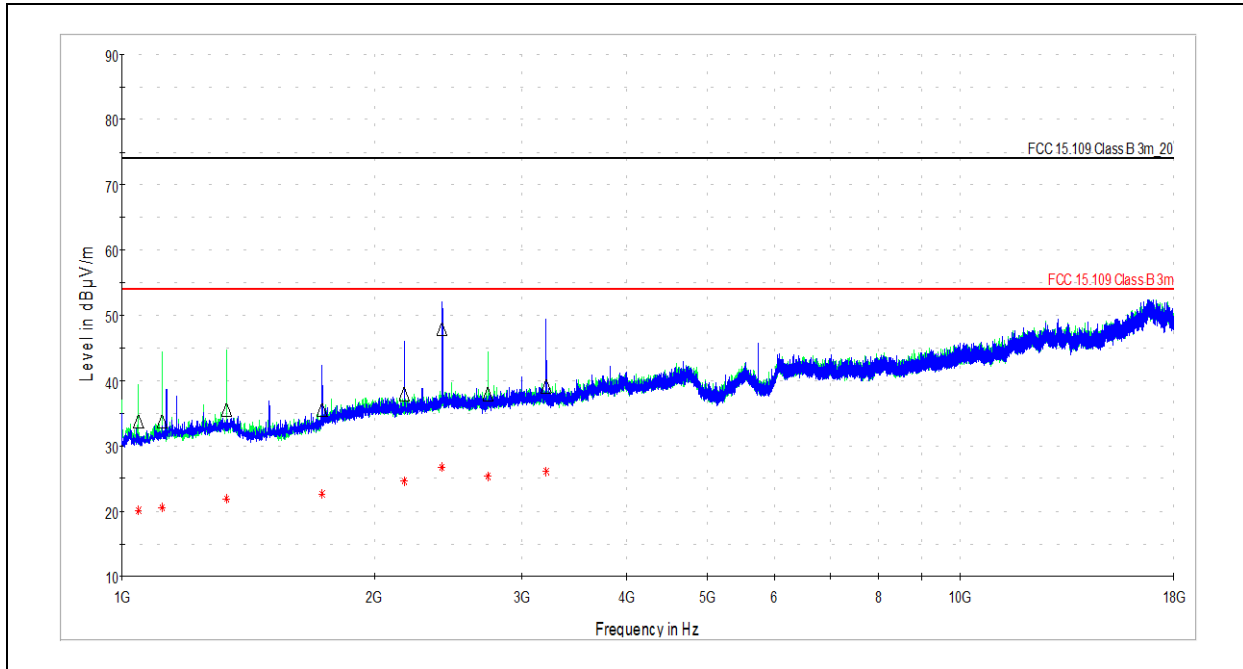
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1051.500000	32.94	74.00	41.06	1000.000	158.0	V	13.0	-4.0
1181.500000	34.58	74.00	39.42	1000.000	410.0	V	198.0	-2.2
1208.500000	33.87	74.00	40.13	1000.000	410.0	H	267.0	-2.2
1231.000000	34.76	74.00	39.24	1000.000	109.0	V	154.0	-1.5
1599.500000	34.67	74.00	39.33	1000.000	347.0	V	330.0	-1.7
1810.000000	36.80	74.00	37.20	1000.000	410.0	H	37.0	0.9
2204.500000	37.75	74.00	36.25	1000.000	380.0	H	294.0	2.3
2411.500000	51.25	74.00	22.75	1000.000	201.0	H	0.0	3.2
2538.500000	38.67	74.00	35.33	1000.000	410.0	H	243.0	3.4

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1051.500000	19.96	54.00	34.04	1000.000	158.0	V	13.0	-4.0
1181.500000	21.15	54.00	32.85	1000.000	410.0	V	198.0	-2.2
1208.500000	20.85	54.00	33.15	1000.000	410.0	H	267.0	-2.2
1231.000000	21.30	54.00	32.70	1000.000	109.0	V	154.0	-1.5
1599.500000	21.32	54.00	32.68	1000.000	347.0	V	330.0	-1.7
1810.000000	23.39	54.00	30.61	1000.000	410.0	H	37.0	0.9
2204.500000	24.70	54.00	29.30	1000.000	380.0	H	294.0	2.3
2411.500000	27.04	54.00	26.96	1000.000	201.0	H	0.0	3.2
2538.500000	25.47	54.00	28.53	1000.000	410.0	H	243.0	3.4

U-NII-3, 802.11N, Low Channel



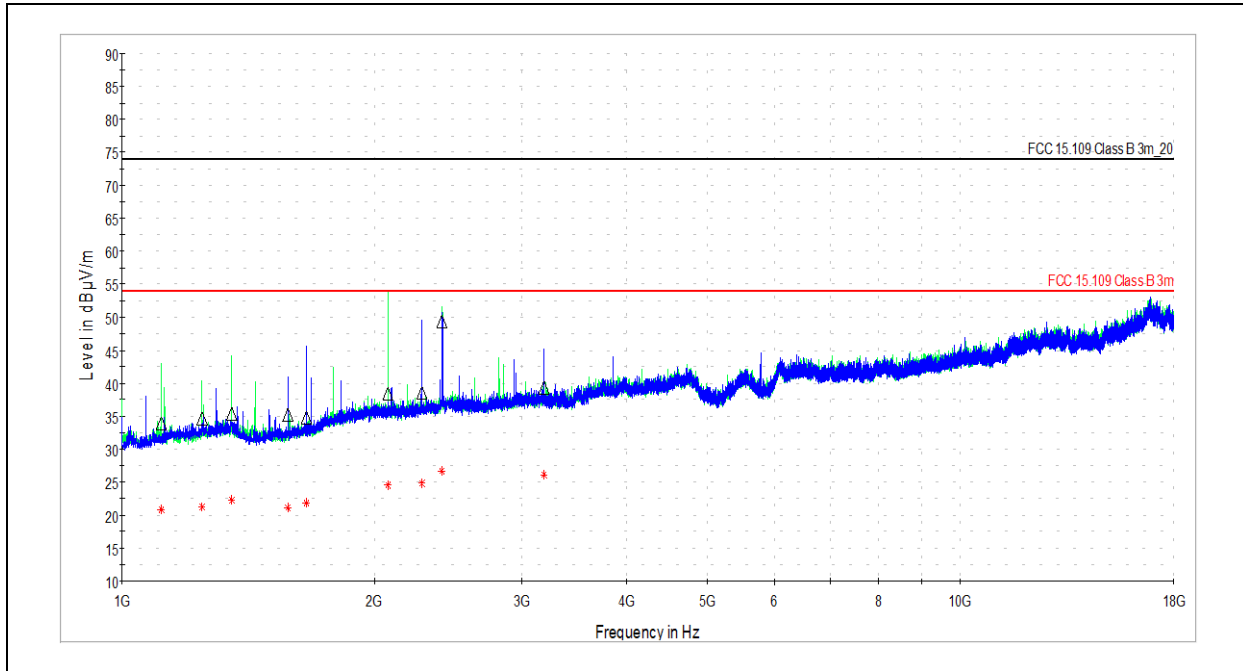
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1046.000000	33.72	74.00	40.28	1000.000	350.0	H	319.0	-3.7
1115.500000	33.70	74.00	40.30	1000.000	325.0	H	292.0	-2.9
1332.000000	35.57	74.00	38.43	1000.000	291.0	H	0.0	-1.3
1733.500000	35.60	74.00	38.40	1000.000	410.0	V	0.0	-0.2
2172.500000	37.98	74.00	36.02	1000.000	100.0	V	325.0	2.1
2410.000000	47.94	74.00	26.06	1000.000	125.0	V	86.0	3.2
2730.500000	37.93	74.00	36.07	1000.000	410.0	H	90.0	3.4
3209.000000	39.18	74.00	34.82	1000.000	410.0	V	0.0	4.5

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1046.000000	20.04	54.00	33.96	1000.000	350.0	H	319.0	-3.7
1115.500000	20.54	54.00	33.46	1000.000	325.0	H	292.0	-2.9
1332.000000	21.89	54.00	32.11	1000.000	291.0	H	0.0	-1.3
1733.500000	22.61	54.00	31.39	1000.000	410.0	V	0.0	-0.2
2172.500000	24.53	54.00	29.47	1000.000	100.0	V	325.0	2.1
2410.000000	26.69	54.00	27.31	1000.000	125.0	V	86.0	3.2
2730.500000	25.34	54.00	28.66	1000.000	410.0	H	90.0	3.4
3209.000000	26.06	54.00	27.94	1000.000	410.0	V	0.0	4.5

U-NII-3, 802.11N, Mid Channel



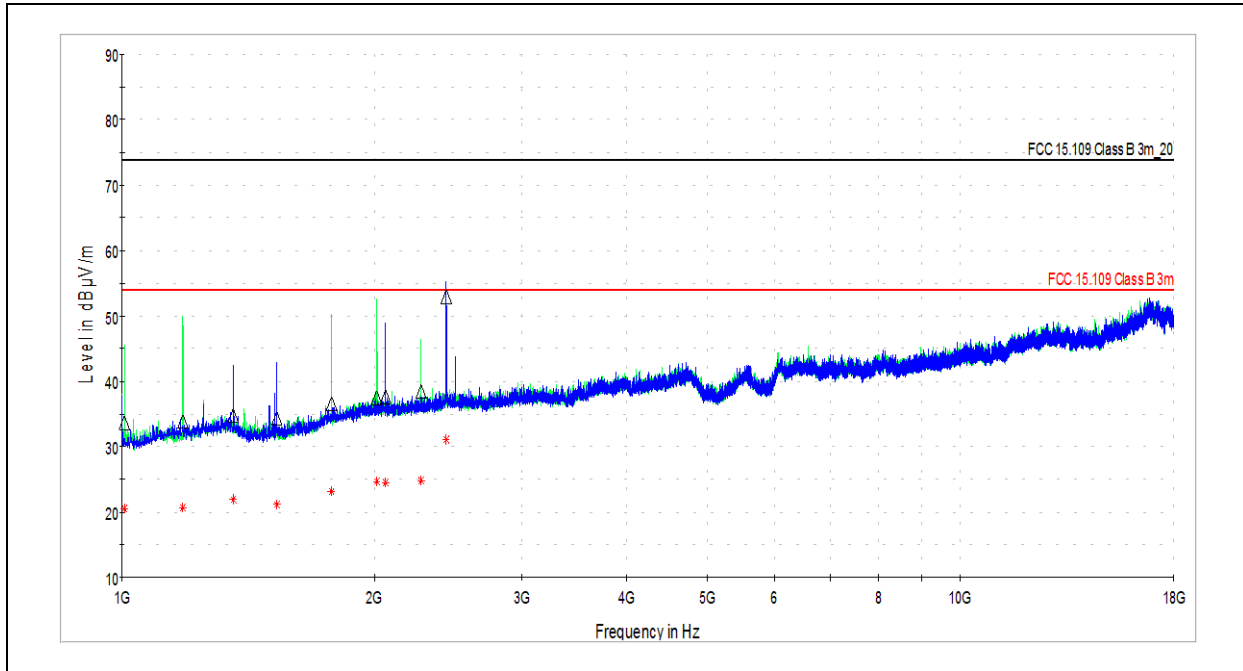
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1113.000000	33.93	74.00	40.07	1000.000	332.0	H	290.0	-2.9
1245.500000	34.67	74.00	39.33	1000.000	378.0	H	281.0	-1.5
1351.500000	35.40	74.00	38.60	1000.000	320.0	H	309.0	-1.4
1576.500000	35.31	74.00	38.69	1000.000	100.0	V	328.0	-1.8
1658.500000	34.77	74.00	39.23	1000.000	100.0	V	258.0	-1.1
2075.500000	38.39	74.00	35.61	1000.000	410.0	H	280.0	2.0
2280.000000	38.54	74.00	35.46	1000.000	100.0	V	27.0	2.6
2409.000000	49.31	74.00	24.69	1000.000	125.0	H	37.0	3.2
3190.000000	39.35	74.00	34.65	1000.000	100.0	V	0.0	4.6

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1113.000000	20.77	54.00	33.23	1000.000	332.0	H	290.0	-2.9
1245.500000	21.33	54.00	32.67	1000.000	378.0	H	281.0	-1.5
1351.500000	22.21	54.00	31.79	1000.000	320.0	H	309.0	-1.4
1576.500000	21.16	54.00	32.84	1000.000	100.0	V	328.0	-1.8
1658.500000	21.82	54.00	32.18	1000.000	100.0	V	258.0	-1.1
2075.500000	24.53	54.00	29.47	1000.000	410.0	H	280.0	2.0
2280.000000	24.88	54.00	29.12	1000.000	100.0	V	27.0	2.6
2409.000000	26.74	54.00	27.26	1000.000	125.0	H	37.0	3.2
3190.000000	26.17	54.00	27.83	1000.000	100.0	V	0.0	4.6

U-NII-3, 802.11N, High Channel



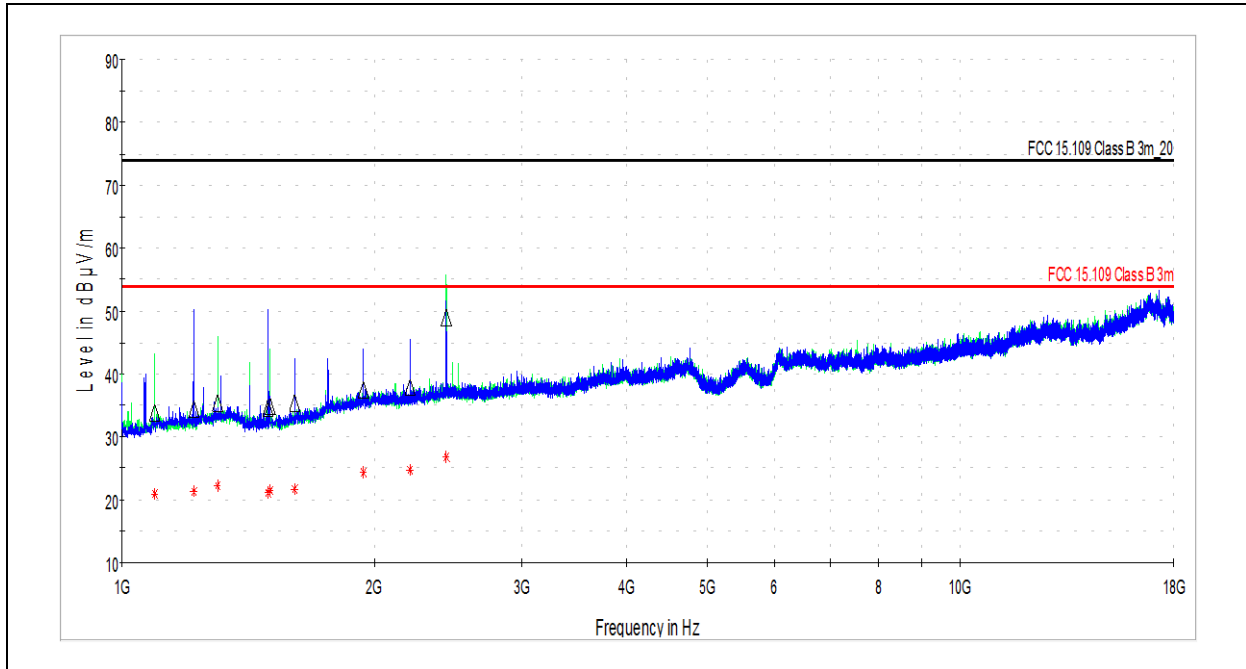
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1007.000000	33.78	74.00	40.22	1000.000	296.0	H	247.0	-3.1
1182.500000	33.83	74.00	40.17	1000.000	287.0	H	0.0	-2.6
1357.500000	34.79	74.00	39.21	1000.000	300.0	V	0.0	-1.2
1528.500000	34.29	74.00	39.71	1000.000	321.0	V	78.0	-2.0
1777.500000	36.57	74.00	37.43	1000.000	346.0	H	125.0	0.5
2015.000000	37.54	74.00	36.46	1000.000	153.0	H	273.0	2.0
2063.500000	37.63	74.00	36.37	1000.000	109.0	V	194.0	2.0
2276.000000	38.38	74.00	35.62	1000.000	410.0	H	30.0	2.7
2437.500000	52.97	74.00	21.03	1000.000	388.0	V	69.0	3.3

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1007.000000	20.50	54.00	33.50	1000.000	296.0	H	247.0	-3.1
1182.500000	20.64	54.00	33.36	1000.000	287.0	H	0.0	-2.6
1357.500000	21.89	54.00	32.11	1000.000	300.0	V	0.0	-1.2
1528.500000	21.12	54.00	32.88	1000.000	321.0	V	78.0	-2.0
1777.500000	23.20	54.00	30.80	1000.000	346.0	H	125.0	0.5
2015.000000	24.63	54.00	29.37	1000.000	153.0	H	273.0	2.0
2063.500000	24.47	54.00	29.53	1000.000	109.0	V	194.0	2.0
2276.000000	24.88	54.00	29.12	1000.000	410.0	H	30.0	2.7
2437.500000	31.17	54.00	22.83	1000.000	388.0	V	69.0	3.3

U-NII-3, 802.11N40, Low Channel



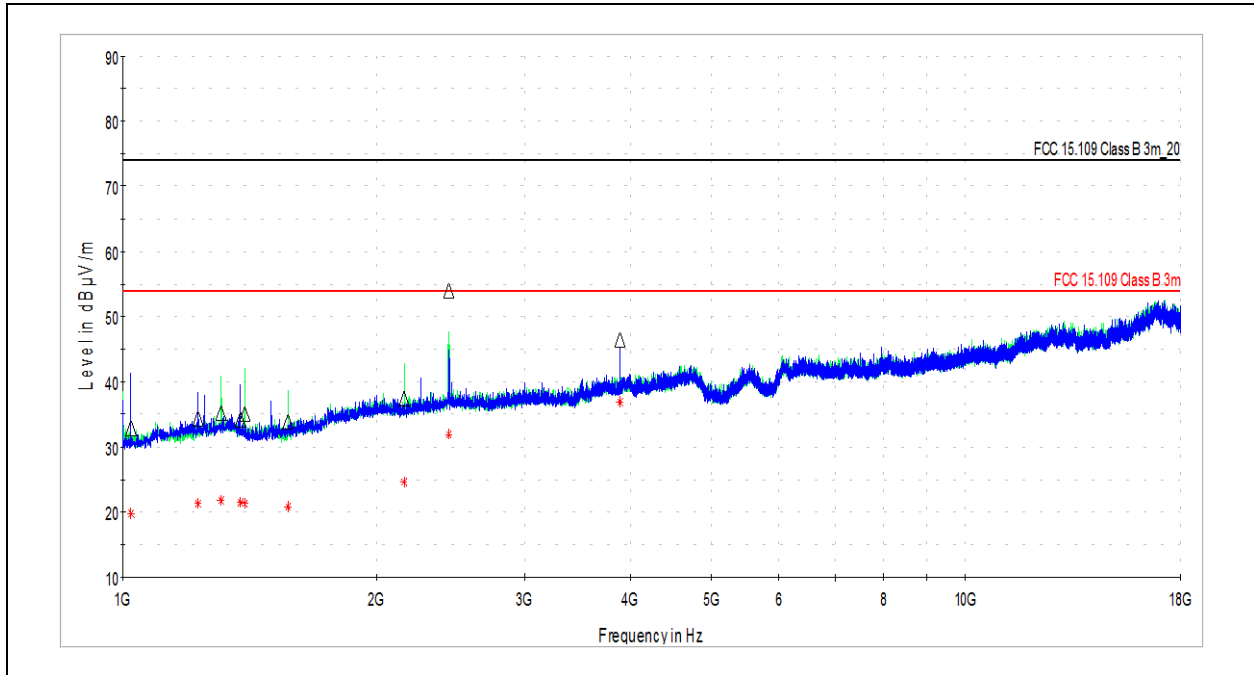
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1093.000000	33.86	74.00	40.14	1000.000	151.0	H	302.0	-3.0
1217.000000	34.46	74.00	39.54	1000.000	142.0	V	338.0	-1.8
1300.500000	35.38	74.00	38.62	1000.000	340.0	H	0.0	-1.2
1492.000000	34.56	74.00	39.44	1000.000	363.0	V	338.0	-2.1
1501.000000	34.78	74.00	39.22	1000.000	378.0	H	80.0	-2.0
1607.500000	35.30	74.00	38.70	1000.000	410.0	V	1.0	-1.6
1942.000000	37.52	74.00	36.48	1000.000	100.0	V	330.0	1.5
2207.000000	37.82	74.00	36.18	1000.000	100.0	V	348.0	2.2
2436.000000	48.94	74.00	25.06	1000.000	117.0	H	258.0	3.4

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1093.000000	20.81	54.00	33.19	1000.000	151.0	H	302.0	-3.0
1217.000000	21.26	54.00	32.74	1000.000	142.0	V	338.0	-1.8
1300.500000	22.22	54.00	31.78	1000.000	340.0	H	0.0	-1.2
1492.000000	21.03	54.00	32.97	1000.000	363.0	V	338.0	-2.1
1501.000000	21.55	54.00	32.45	1000.000	378.0	H	80.0	-2.0
1607.500000	21.63	54.00	32.37	1000.000	410.0	V	1.0	-1.6
1942.000000	24.32	54.00	29.68	1000.000	100.0	V	330.0	1.5
2207.000000	24.72	54.00	29.28	1000.000	100.0	V	348.0	2.2
2436.000000	26.84	54.00	27.16	1000.000	117.0	H	258.0	3.4

U-NII-3, 802.11N, High Channel



Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1023.000000	32.95	74.00	41.05	1000.000	109.0	V	137.0	-3.9
1228.000000	34.47	74.00	39.53	1000.000	410.0	V	342.0	-1.6
1309.000000	35.28	74.00	38.72	1000.000	340.0	H	234.0	-1.2
1378.000000	34.24	74.00	39.76	1000.000	331.0	V	0.0	-1.6
1395.500000	35.10	74.00	38.90	1000.000	252.0	H	45.0	-1.5
1572.000000	33.86	74.00	40.14	1000.000	410.0	H	46.0	-2.1
2158.000000	37.43	74.00	36.57	1000.000	342.0	H	68.0	2.1
2437.500000	54.05	74.00	19.95	1000.000	288.0	H	144.0	3.4
3890.000000	46.54	74.00	27.46	1000.000	273.0	V	38.0	6.1

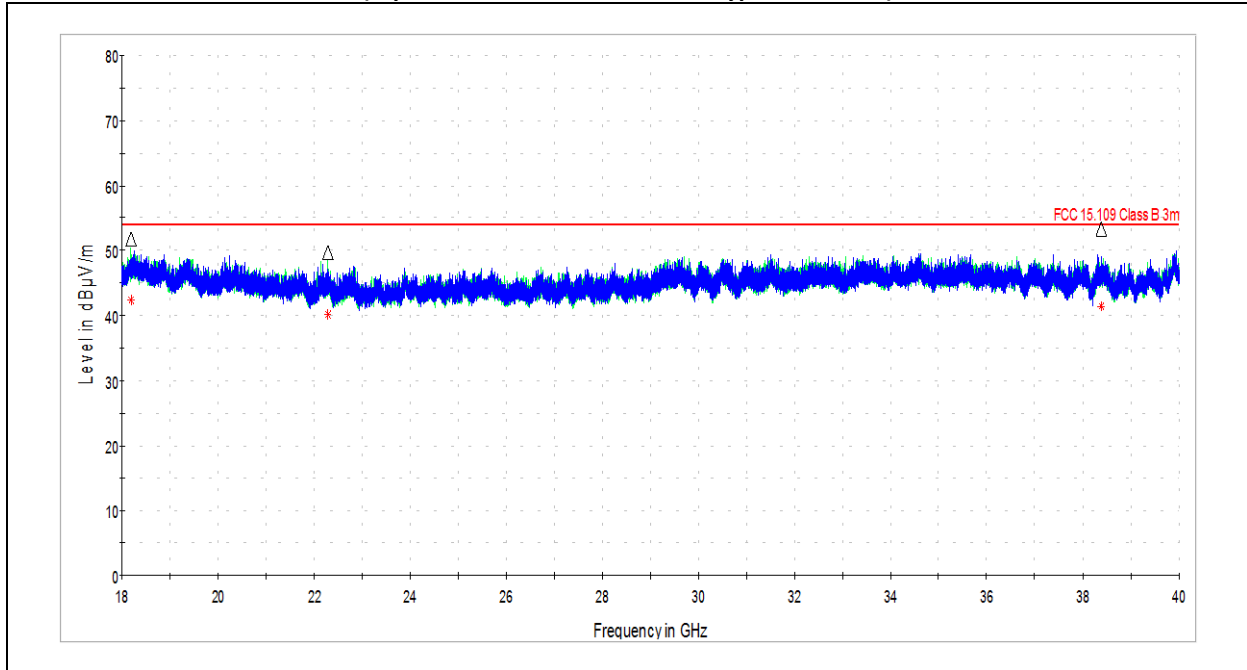
Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1023.000000	19.72	54.00	34.28	1000.000	109.0	V	137.0	-3.9
1228.000000	21.26	54.00	32.74	1000.000	410.0	V	342.0	-1.6
1309.000000	21.79	54.00	32.21	1000.000	340.0	H	234.0	-1.2
1378.000000	21.43	54.00	32.57	1000.000	331.0	V	0.0	-1.6
1395.500000	21.27	54.00	32.73	1000.000	252.0	H	45.0	-1.5
1572.000000	20.81	54.00	33.19	1000.000	410.0	H	46.0	-2.1
2158.000000	24.53	54.00	29.47	1000.000	342.0	H	68.0	2.1
2437.500000	31.94	54.00	22.06	1000.000	288.0	H	144.0	3.4
3890.000000	36.82	54.00	17.18	1000.000	273.0	V	38.0	6.1

18-40GHz Radiated Emissions

Bluetooth, 2EDR, Mid Channel

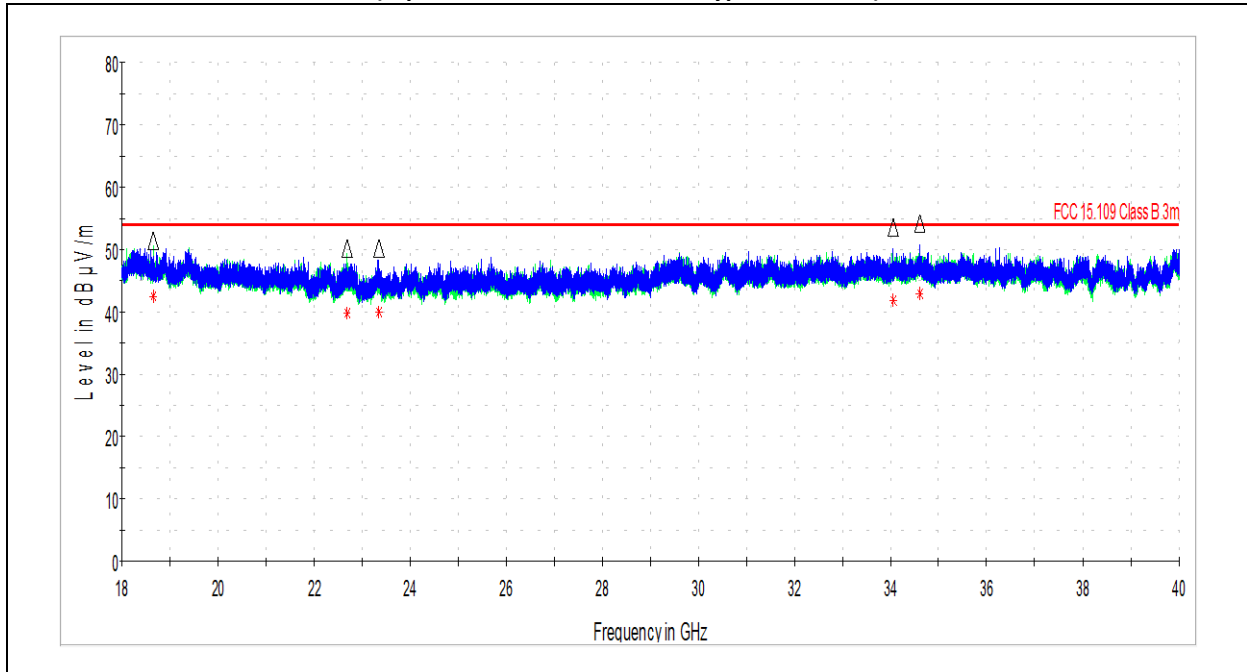
(representative of all Bluetooth types/channels)



Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
18178.530909	42.28	54.00	11.72	1.0	1000.000	188.0	H	328.0
22286.330909	40.13	54.00	13.87	1.0	1000.000	235.0	H	23.0
38382.083636	41.48	54.00	12.52	1.0	1000.000	149.0	V	76.0

2.4 Wi-Fi, 802.11B, Mid Channel

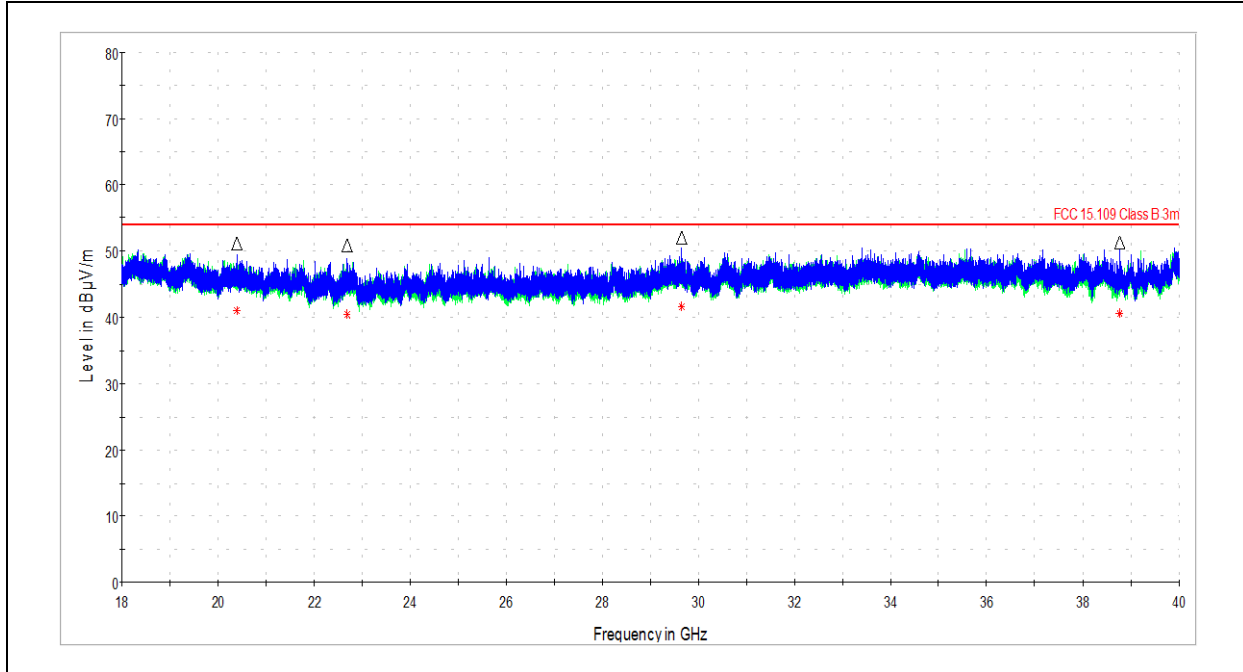
(representative of all 2.4 Wifi types/channels)



Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
18653.712728	42.44	54.00	11.56	1.0	1000.000	318.0	H	77.0
22677.731818	39.87	54.00	14.13	1.0	1000.000	170.0	H	126.0
23344.713636	39.93	54.00	14.07	1.0	1000.000	166.0	V	154.0
34046.623637	41.91	54.00	12.09	1.0	1000.000	115.0	V	109.0
34612.265455	42.87	54.00	11.13	1.0	1000.000	184.0	V	232.0

U-NII-1, 802.11A, Mid Channel

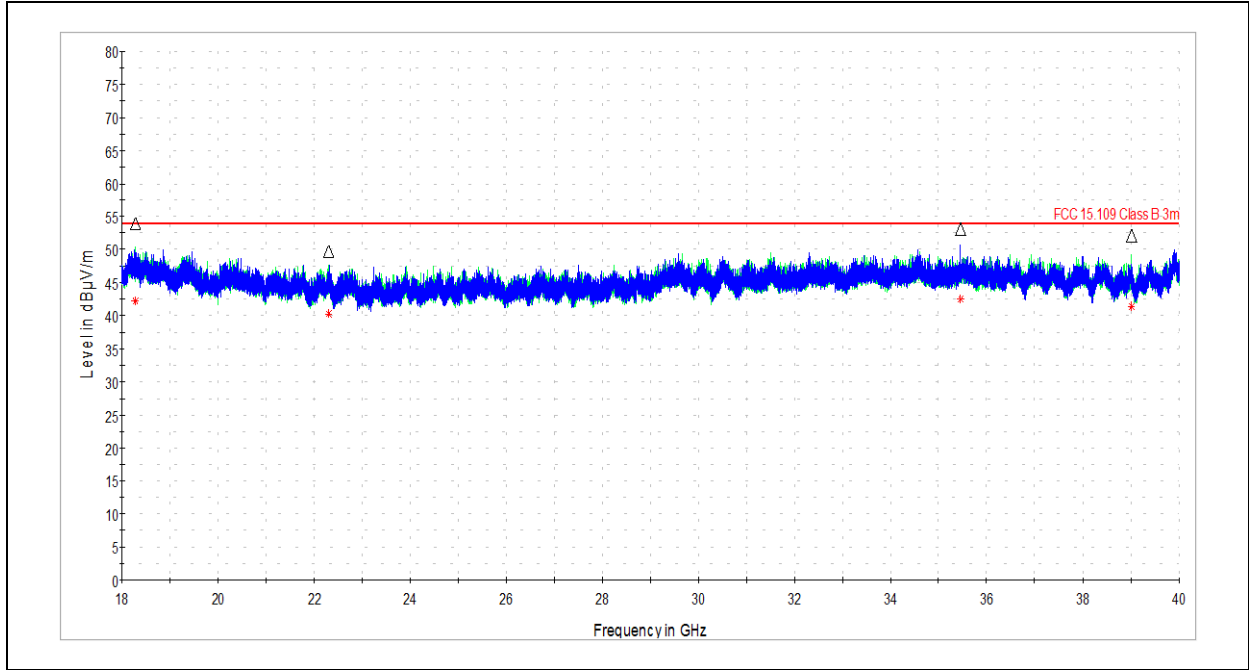
(representative of all U-NII-1 types/channels)



Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
20387.653636	41.05	54.00	12.95	1.0	1000.000	152.0	V	168.0
22686.883637	40.46	54.00	13.54	1.0	1000.000	125.0	V	246.0
29644.010000	41.53	54.00	12.47	1.0	1000.000	126.0	V	180.0
38765.360909	40.55	54.00	13.45	1.0	1000.000	107.0	V	112.0

U-NII-2A, 802.11A, Mid Channel

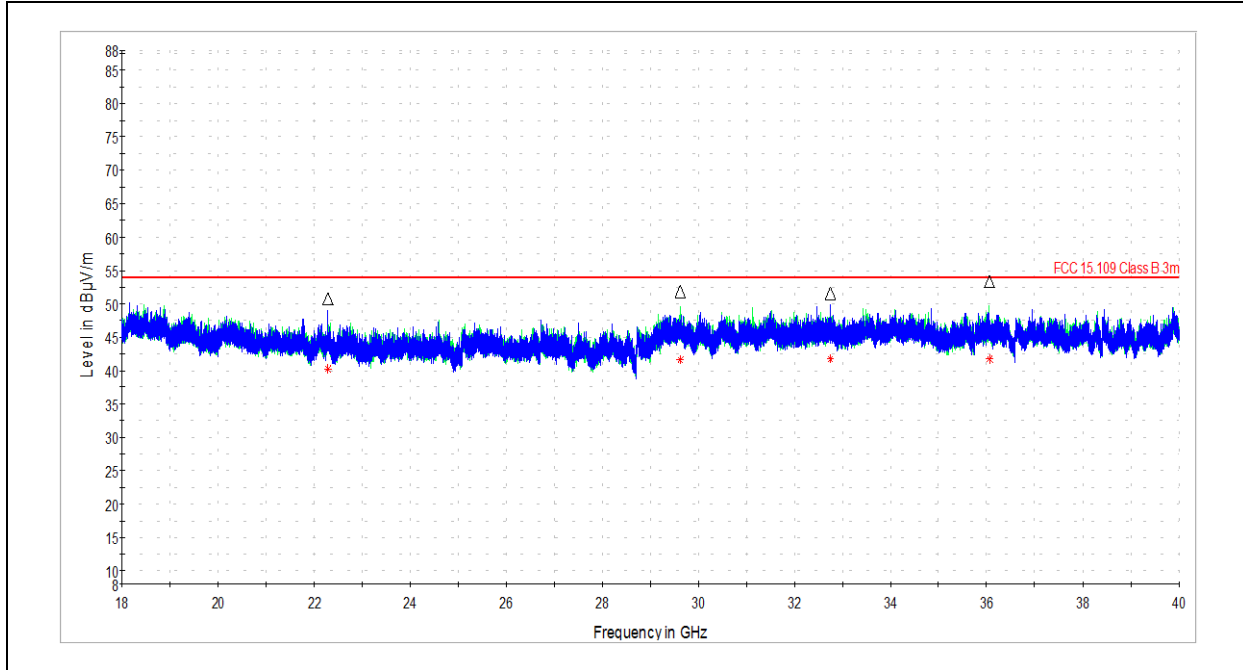
(representative of all U-NII-2A types/channels)



Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
18271.173636	42.23	54.00	11.77	1.0	1000.000	290.0	H	270.0
22305.738181	40.34	54.00	13.66	1.0	1000.000	363.0	V	22.0
35460.341818	42.49	54.00	11.51	1.0	1000.000	154.0	V	337.0
39009.032727	41.38	54.00	12.62	1.0	1000.000	410.0	H	324.0

U-NII-2C, 802.11A, Mid Channel

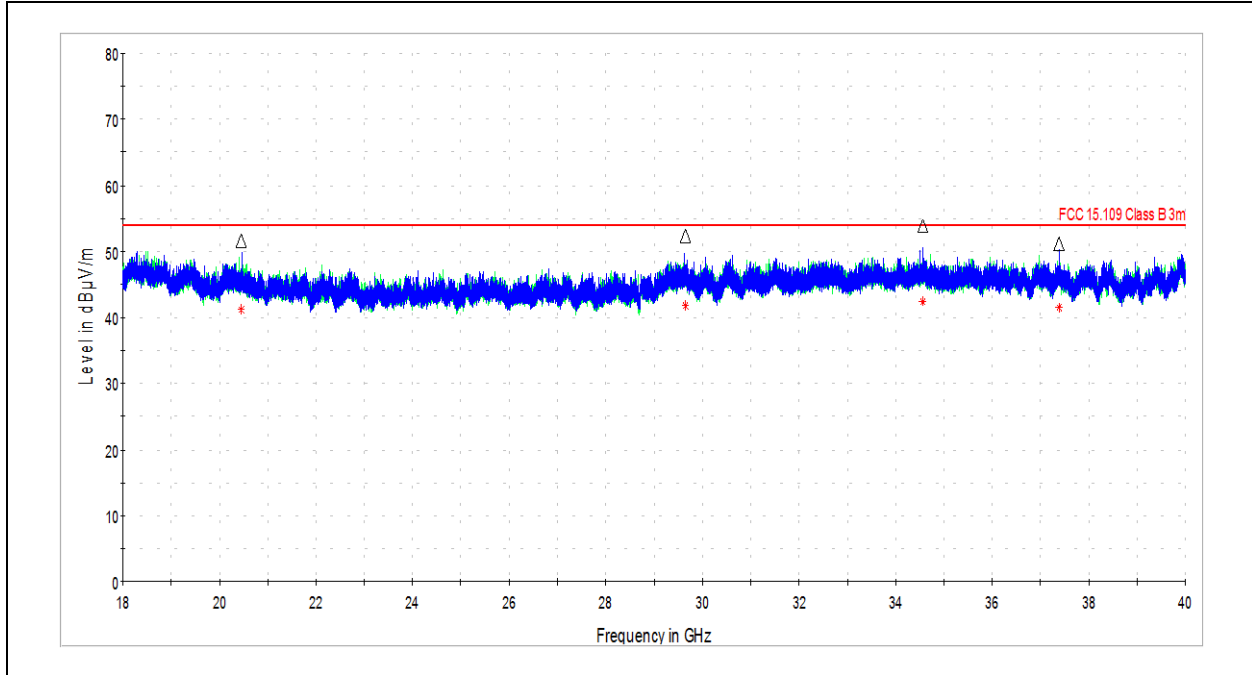
(representative of all U-NII-2C types/channels)



Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
22288.345454	40.30	54.00	13.70	1.0	1000.000	156.0	V	239.0
29616.551819	41.65	54.00	12.35	1.0	1000.000	155.0	H	75.0
32745.135455	41.70	54.00	12.30	1.0	1000.000	245.0	V	109.0
36051.218182	41.78	54.00	12.22	1.0	1000.000	226.0	H	16.0

U-NII-3, 802.11A, Mid Channel

(representative of all U-NII-3 types/channels)



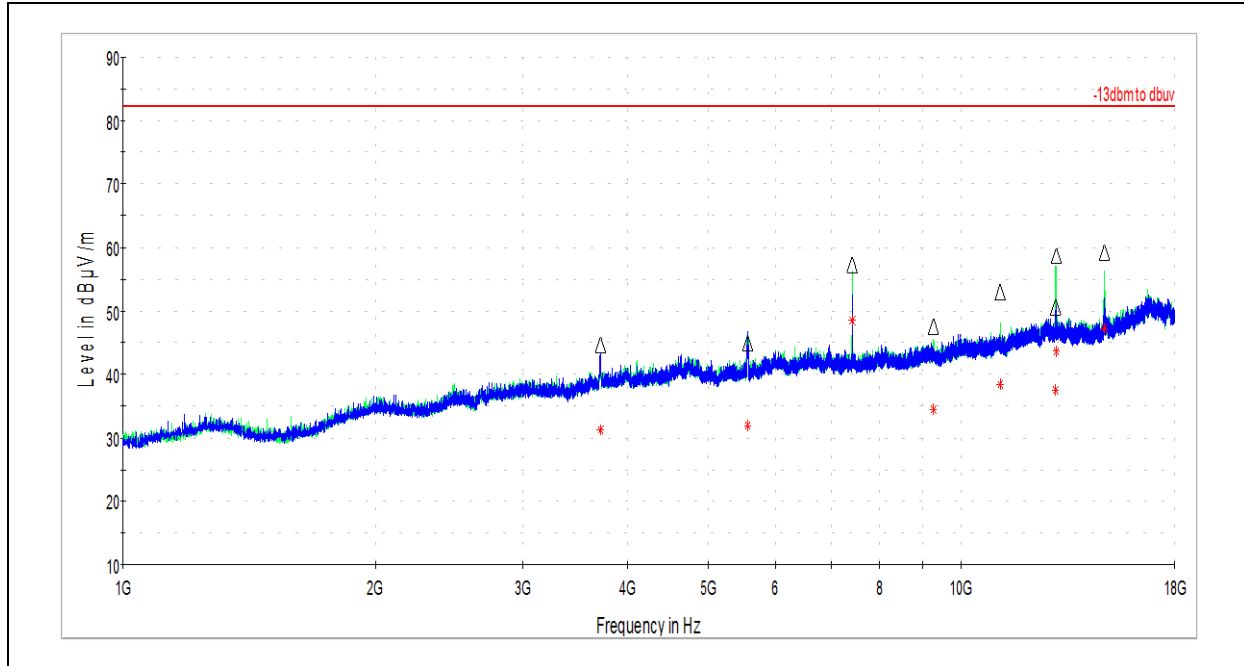
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
20448.153636	41.27	54.00	12.73	1.0	1000.000	410.0	V	89.0
29640.097273	41.79	54.00	12.21	1.0	1000.000	154.0	V	187.0
34567.884546	42.36	54.00	11.64	1.0	1000.000	169.0	V	151.0
37378.405455	41.58	54.00	12.42	1.0	1000.000	214.0	V	271.0

5.9 Test Results (Cellular Spurious Emissions):

The device was found to be **compliant** with the radiated spurious emission limits from FCC Part 22, FCC Part 24, FCC Part 27, RSS-132, RSS-133, RSS-139. There were no spurious emissions above the limit.

Cell Radiated Spurious Emissions

LTE, Band 2, Low



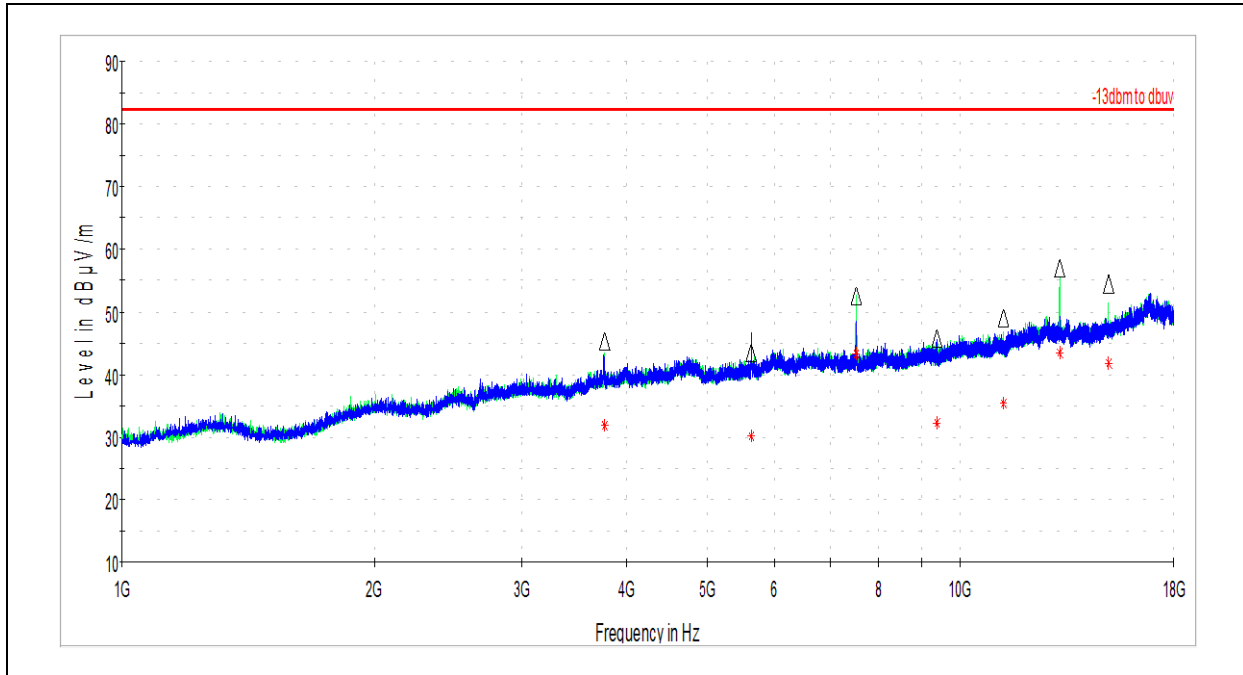
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3710.000000	44.77	82.25	37.48	1000.000	265.0	V	241.0	5.8
5568.000000	44.79	82.25	37.46	1000.000	259.0	V	317.0	8.8
7420.000000	57.25	82.25	25	1000.000	256.0	H	306.0	10.7
9272.000000	47.63	82.25	34.62	1000.000	234.0	H	319.0	12.2
11130.000000	52.93	82.25	29.32	1000.000	226.0	H	322.0	14.9
12985.500000	50.60	82.25	31.65	1000.000	231.0	H	320.0	17.3
12998.000000	58.79	82.25	23.46	1000.000	227.0	H	326.0	17.3
14840.000000	59.25	82.25	23	1000.000	324.0	H	0.0	17.8

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3710.000000	31.17	82.25	51.08	1000.000	265.0	V	241.0	5.8
5568.000000	31.94	82.25	50.31	1000.000	259.0	V	317.0	8.8
7420.000000	48.46	82.25	33.79	1000.000	256.0	H	306.0	10.7
9272.000000	34.42	82.25	47.83	1000.000	234.0	H	319.0	12.2
11130.000000	38.33	82.25	43.92	1000.000	226.0	H	322.0	14.9
12985.500000	37.47	82.25	44.78	1000.000	231.0	H	320.0	17.3
12998.000000	43.59	82.25	38.66	1000.000	227.0	H	326.0	17.3
14840.000000	47.13	82.25	35.12	1000.000	324.0	H	0.0	17.8

LTE, Band 2, Mid



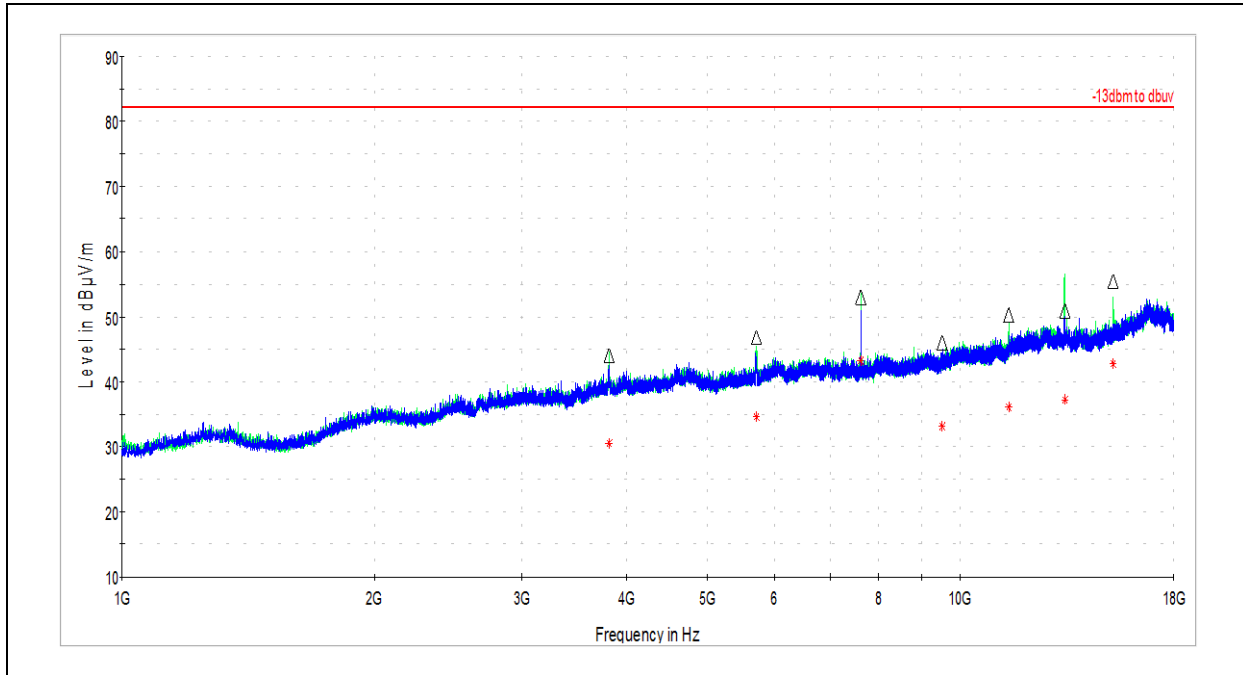
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3764.500000	45.32	82.25	36.93	1000.000	365.0	H	294.0	6.0
5638.500000	43.43	82.25	38.82	1000.000	330.0	V	338.0	8.7
7520.000000	52.52	82.25	29.73	1000.000	338.0	H	308.0	10.9
9395.000000	45.76	82.25	36.49	1000.000	298.0	V	337.0	12.5
11273.500000	49.02	82.25	33.23	1000.000	309.0	H	332.0	14.8
13159.000000	56.90	82.25	25.35	1000.000	286.0	H	332.0	17.0
15040.000000	54.57	82.25	27.68	1000.000	337.0	H	0.0	18.2

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3764.500000	31.80	82.25	50.45	1000.000	365.0	H	294.0	6.0
5638.500000	30.17	82.25	52.08	1000.000	330.0	V	338.0	8.7
7520.000000	43.25	82.25	39.00	1000.000	338.0	H	308.0	10.9
9395.000000	32.27	82.25	49.98	1000.000	298.0	V	337.0	12.5
11273.500000	35.38	82.25	46.87	1000.000	309.0	H	332.0	14.8
13159.000000	43.38	82.25	38.87	1000.000	286.0	H	332.0	17.0
15040.000000	41.87	82.25	40.38	1000.000	337.0	H	0.0	18.2

LTE, Band 2, High



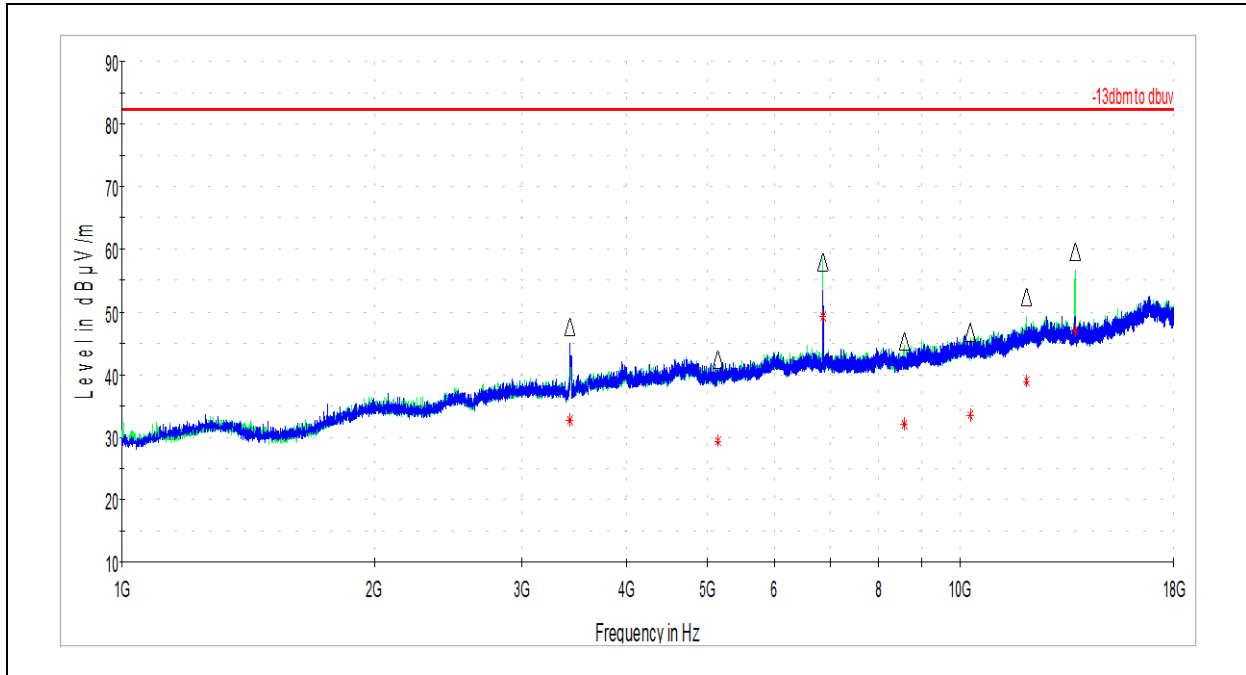
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3810.000000	44.05	82.25	38.2	1000.000	394.0	H	287.0	6.1
5713.000000	46.80	82.25	35.45	1000.000	279.0	H	332.0	8.5
7620.000000	52.99	82.25	29.26	1000.000	246.0	H	298.0	10.6
9525.500000	46.06	82.25	36.19	1000.000	192.0	H	316.0	12.9
11430.000000	50.27	82.25	31.98	1000.000	245.0	H	317.0	14.9
13335.500000	50.94	82.25	31.31	1000.000	219.0	H	317.0	16.7
15240.000000	55.53	82.25	26.72	1000.000	311.0	H	-1.0	18.4

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3810.000000	30.58	82.25	51.67	1000.000	394.0	H	287.0	6.1
5713.000000	34.55	82.25	47.70	1000.000	279.0	H	332.0	8.5
7620.000000	43.18	82.25	39.07	1000.000	246.0	H	298.0	10.6
9525.500000	33.09	82.25	49.16	1000.000	192.0	H	316.0	12.9
11430.000000	36.07	82.25	46.18	1000.000	245.0	H	317.0	14.9
13335.500000	37.22	82.25	45.03	1000.000	219.0	H	317.0	16.7
15240.000000	42.80	82.25	39.45	1000.000	311.0	H	-1.0	18.4

LTE, Band 4, Low



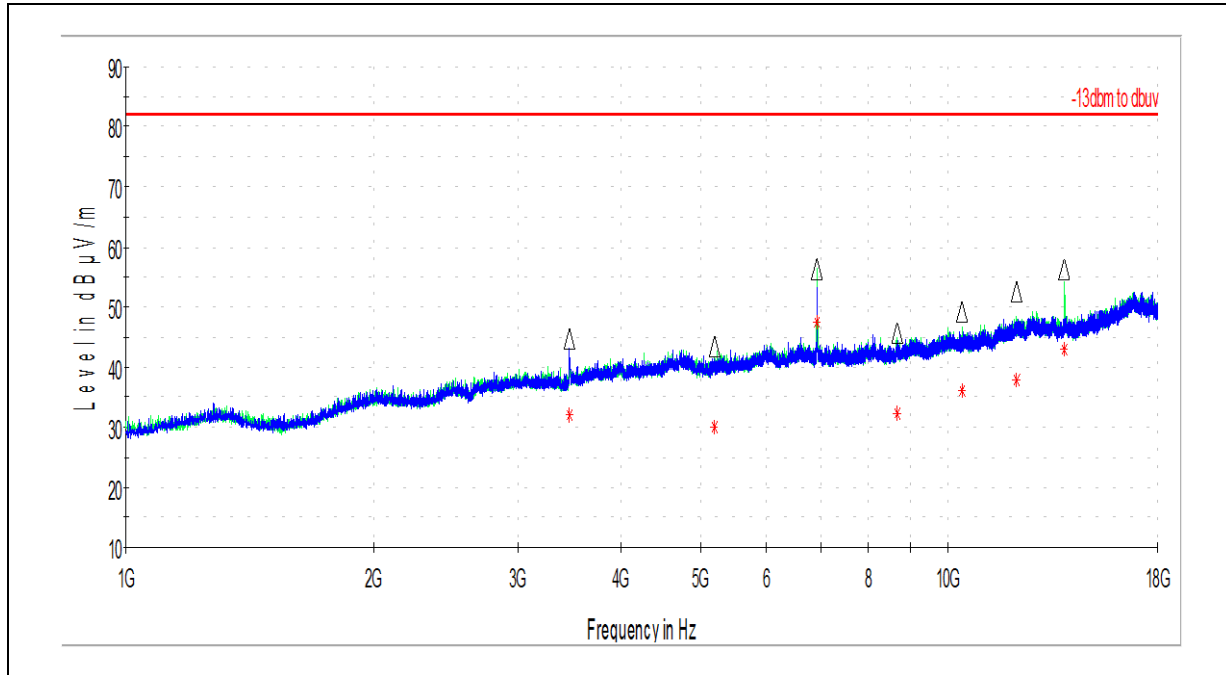
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3425.500000	47.55	82.25	34.7	1000.000	246.0	V	247.0	4.5
5144.500000	42.49	82.25	39.76	1000.000	285.0	V	218.0	7.2
6860.000000	57.90	82.25	24.35	1000.000	277.0	H	332.0	9.7
8579.000000	45.36	82.25	36.89	1000.000	292.0	H	344.0	11.6
10291.000000	46.81	82.25	35.44	1000.000	294.0	V	323.0	13.8
12007.500000	52.44	82.25	29.81	1000.000	253.0	H	323.0	16.4
13720.000000	59.58	82.25	22.67	1000.000	246.0	H	327.0	16.5

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3425.500000	32.68	82.25	49.57	1000.000	246.0	V	247.0	4.5
5144.500000	29.30	82.25	52.95	1000.000	285.0	V	218.0	7.2
6860.000000	49.24	82.25	33.01	1000.000	277.0	H	332.0	9.7
8579.000000	31.95	82.25	50.30	1000.000	292.0	H	344.0	11.6
10291.000000	33.46	82.25	48.79	1000.000	294.0	V	323.0	13.8
12007.500000	38.79	82.25	43.46	1000.000	253.0	H	323.0	16.4
13720.000000	46.90	82.25	35.35	1000.000	246.0	H	327.0	16.5

LTE, Band 4, Mid



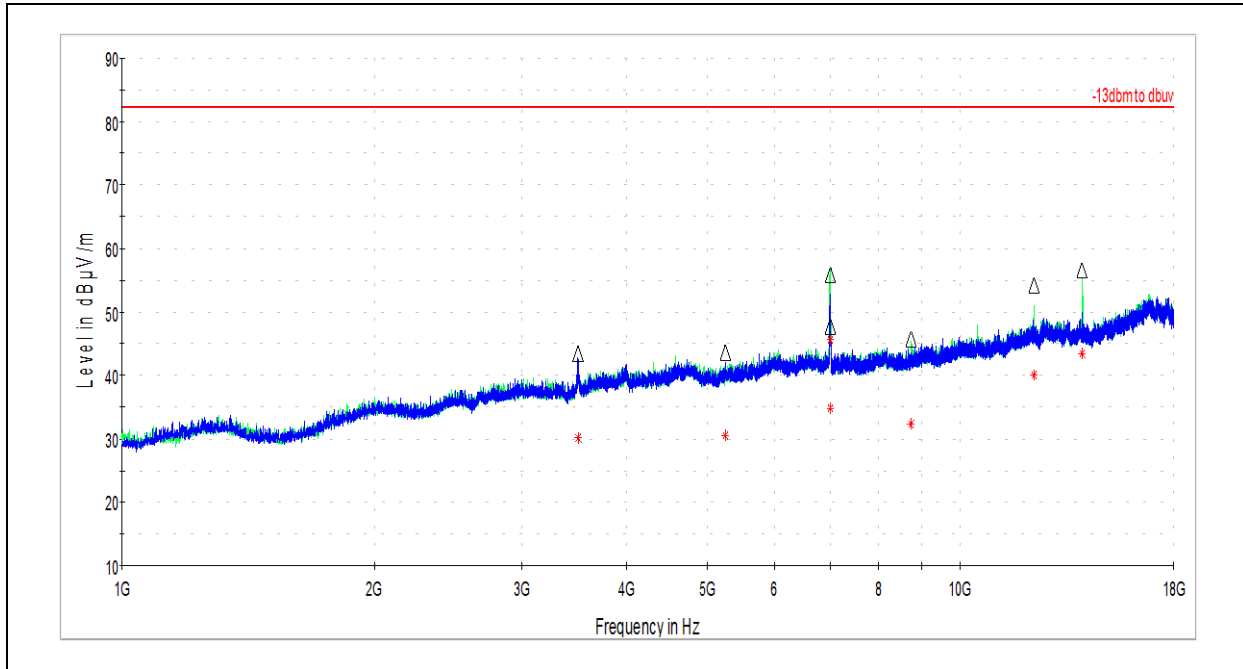
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3464.500000	44.58	82.25	37.67	1000.000	226.0	V	248.0	4.8
5197.000000	43.33	82.25	38.92	1000.000	410.0	H	257.0	7.5
6930.000000	56.33	82.25	25.92	1000.000	320.0	H	324.0	9.8
8665.000000	45.72	82.25	36.53	1000.000	270.0	H	346.0	11.6
10394.500000	49.28	82.25	32.97	1000.000	235.0	H	318.0	13.9
12125.500000	52.54	82.25	29.71	1000.000	229.0	H	320.0	16.4
13859.500000	56.43	82.25	25.82	1000.000	245.0	H	325.0	17.1

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3464.500000	32.08	82.25	50.17	1000.000	226.0	V	248.0	4.8
5197.000000	30.00	82.25	52.25	1000.000	410.0	H	257.0	7.5
6930.000000	47.51	82.25	34.74	1000.000	320.0	H	324.0	9.8
8665.000000	32.38	82.25	49.87	1000.000	270.0	H	346.0	11.6
10394.500000	36.08	82.25	46.17	1000.000	235.0	H	318.0	13.9
12125.500000	37.86	82.25	44.39	1000.000	229.0	H	320.0	16.4
13859.500000	42.85	82.25	39.40	1000.000	245.0	H	325.0	17.1

LTE, Band 4, High



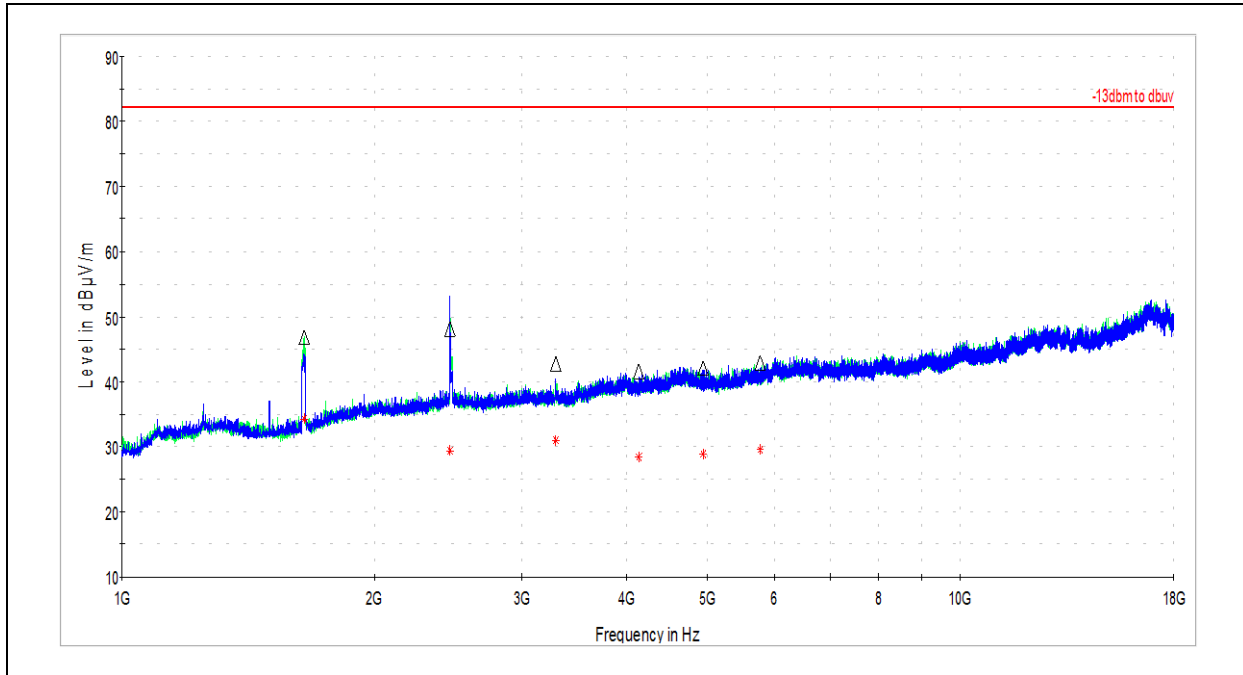
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3504.000000	43.38	82.25	38.87	1000.000	202.0	V	256.0	5.4
5244.000000	43.67	82.25	38.58	1000.000	285.0	V	194.0	7.8
7000.500000	55.86	82.25	26.39	1000.000	270.0	H	328.0	9.8
7009.000000	47.81	82.25	34.44	1000.000	100.0	H	297.0	9.8
8746.500000	45.82	82.25	36.43	1000.000	109.0	H	340.0	11.8
12249.000000	54.15	82.25	28.1	1000.000	264.0	H	335.0	16.5
14000.000000	56.49	82.25	25.76	1000.000	256.0	H	322.0	16.8

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3504.000000	30.12	82.25	52.13	1000.000	202.0	V	256.0	5.4
5244.000000	30.45	82.25	51.80	1000.000	285.0	V	194.0	7.8
7000.500000	45.60	82.25	36.65	1000.000	270.0	H	328.0	9.8
7009.000000	34.73	82.25	47.52	1000.000	100.0	H	297.0	9.8
8746.500000	32.21	82.25	50.04	1000.000	109.0	H	340.0	11.8
12249.000000	40.09	82.25	42.16	1000.000	264.0	H	335.0	16.5
14000.000000	43.47	82.25	38.78	1000.000	256.0	H	322.0	16.8

LTE, Band 5, Low



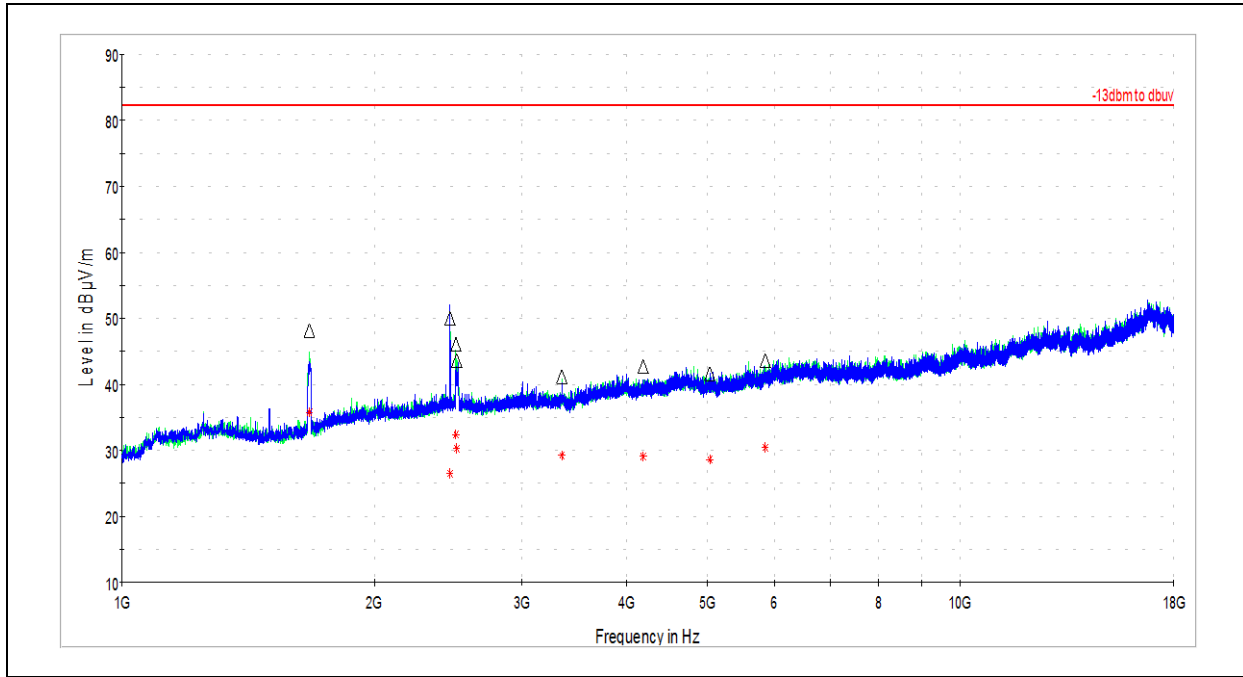
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1648.000000	46.76	82.25	35.49	1000.000	208.0	H	323.0	-1.1
2462.500000	48.14	82.25	34.11	1000.000	367.0	V	240.0	3.3
3296.000000	42.80	82.25	39.45	1000.000	100.0	H	256.0	4.7
4135.000000	41.64	82.25	40.61	1000.000	327.0	V	333.0	6.3
4938.000000	42.06	82.25	40.19	1000.000	100.0	V	0.0	6.7
5772.500000	42.96	82.25	39.29	1000.000	353.0	V	232.0	8.5

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1648.000000	34.23	82.25	48.02	1000.000	208.0	H	323.0	-1.1
2462.500000	29.37	82.25	52.88	1000.000	367.0	V	240.0	3.3
3296.000000	31.06	82.25	51.19	1000.000	100.0	H	256.0	4.7
4135.000000	28.36	82.25	53.89	1000.000	327.0	V	333.0	6.3
4938.000000	28.82	82.25	53.43	1000.000	100.0	V	0.0	6.7
5772.500000	29.62	82.25	52.63	1000.000	353.0	V	232.0	8.5

LTE, Band 5, Mid



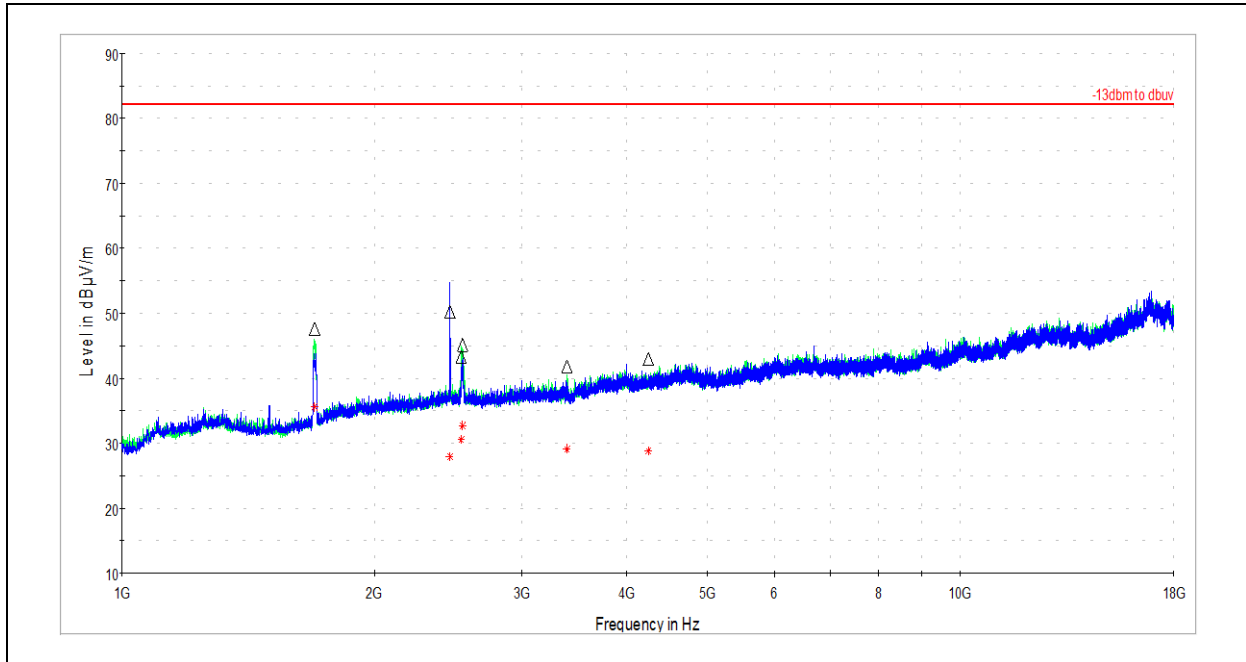
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1673.000000	48.23	82.25	34.02	1000.000	208.0	H	331.0	-1.0
2462.000000	50.01	82.25	32.24	1000.000	262.0	V	156.0	3.3
2502.000000	46.08	82.25	36.17	1000.000	100.0	H	0.0	3.6
2508.000000	43.68	82.25	38.57	1000.000	109.0	H	304.0	3.6
3346.000000	41.16	82.25	41.09	1000.000	100.0	H	223.0	4.6
4184.000000	42.67	82.25	39.58	1000.000	396.0	V	328.0	6.4
5029.000000	41.61	82.25	40.64	1000.000	306.0	V	239.0	6.5
5853.500000	43.64	82.25	38.61	1000.000	410.0	H	287.0	8.8

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1673.000000	35.77	82.25	46.48	1000.000	208.0	H	331.0	-1.0
2462.000000	26.51	82.25	55.74	1000.000	262.0	V	156.0	3.3
2502.000000	32.36	82.25	49.89	1000.000	100.0	H	0.0	3.6
2508.000000	30.30	82.25	51.95	1000.000	109.0	H	304.0	3.6
3346.000000	29.27	82.25	52.98	1000.000	100.0	H	223.0	4.6
4184.000000	29.15	82.25	53.10	1000.000	396.0	V	328.0	6.4
5029.000000	28.64	82.25	53.61	1000.000	306.0	V	239.0	6.5
5853.500000	30.40	82.25	51.85	1000.000	410.0	H	287.0	8.8

LTE, Band 5, High



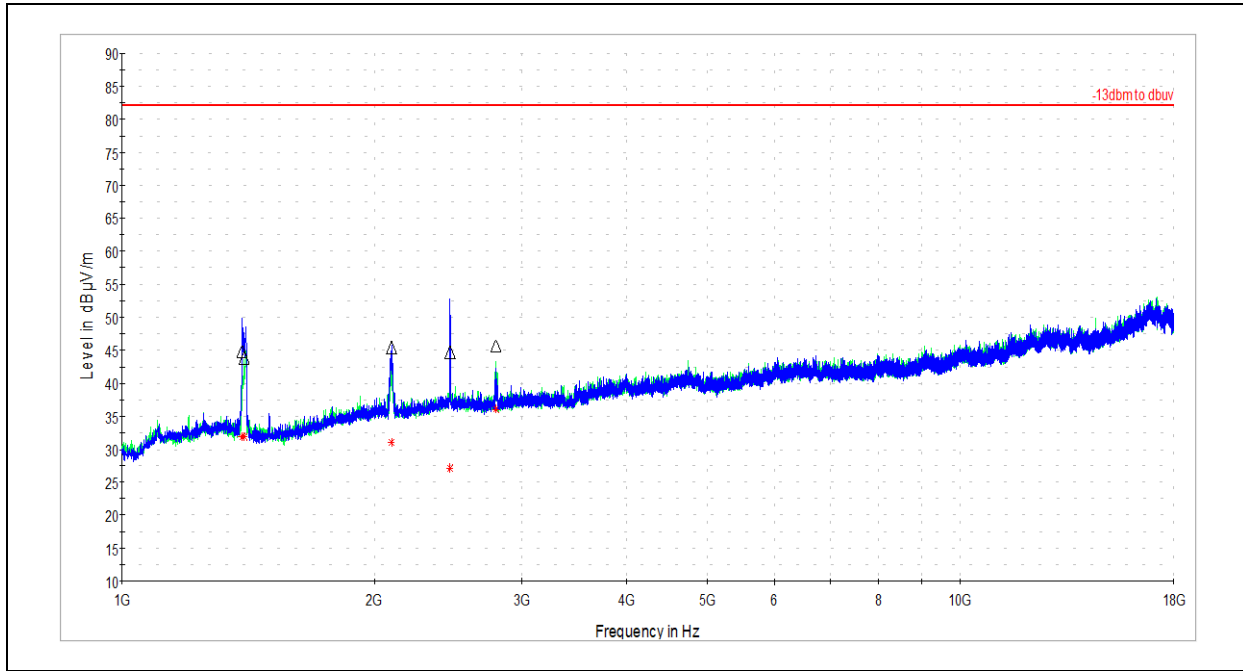
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1698.000000	47.59	82.25	34.66	1000.000	201.0	H	324.0	-1.0
2463.000000	50.28	82.25	31.97	1000.000	108.0	V	0.0	3.3
2541.000000	43.25	82.25	39	1000.000	167.0	H	303.0	3.4
2548.000000	45.21	82.25	37.04	1000.000	167.0	H	306.0	3.4
3395.500000	41.81	82.25	40.44	1000.000	375.0	H	246.0	4.5
4245.500000	42.94	82.25	39.31	1000.000	100.0	H	328.0	6.4

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1698.000000	35.57	82.25	46.68	1000.000	201.0	H	324.0	-1.0
2463.000000	28.00	82.25	54.25	1000.000	108.0	V	0.0	3.3
2541.000000	30.59	82.25	51.66	1000.000	167.0	H	303.0	3.4
2548.000000	32.69	82.25	49.56	1000.000	167.0	H	306.0	3.4
3395.500000	29.09	82.25	53.16	1000.000	375.0	H	246.0	4.5
4245.500000	28.86	82.25	53.39	1000.000	100.0	H	328.0	6.4

LTE, Band 12, Low



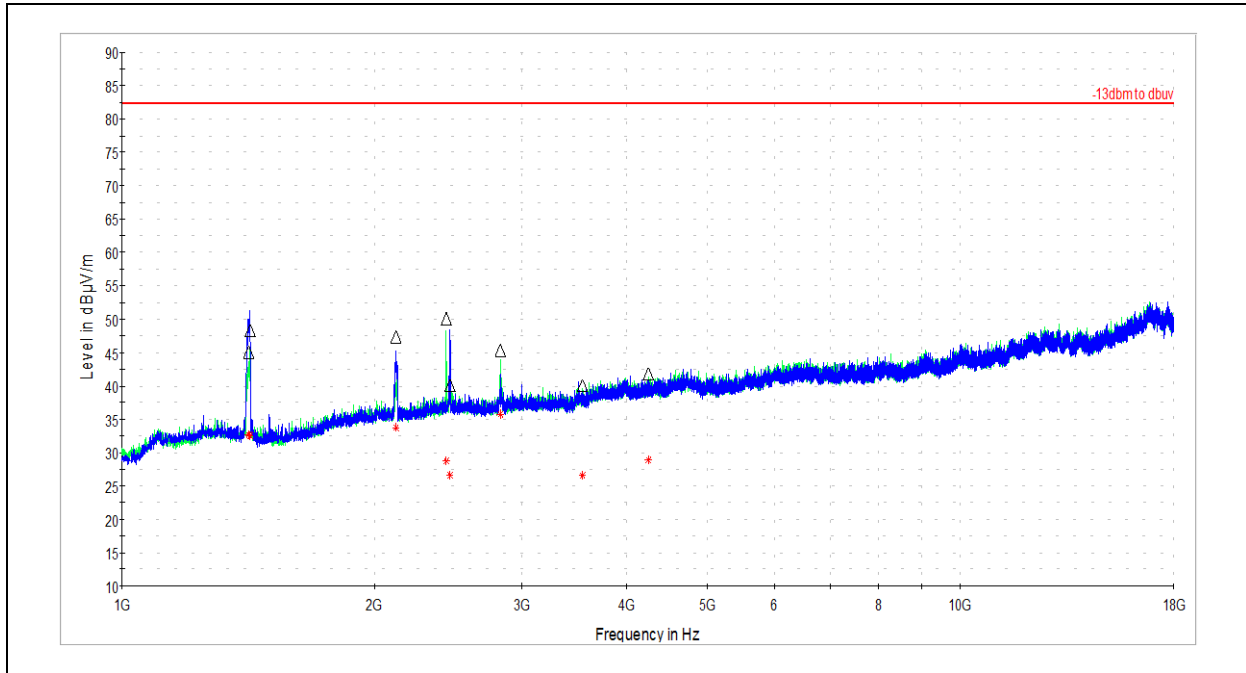
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1391.500000	44.89	82.25	37.36	1000.000	286.0	V	302.0	-1.9
1399.000000	43.80	82.25	38.45	1000.000	100.0	V	340.0	-2.0
2097.500000	45.46	82.25	36.79	1000.000	192.0	V	0.0	2.1
2464.000000	44.69	82.25	37.56	1000.000	136.0	V	34.0	3.3
2796.000000	45.72	82.25	36.53	1000.000	201.0	H	297.0	3.7

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1391.500000	31.85	82.25	50.40	1000.000	286.0	V	302.0	-1.9
1399.000000	31.85	82.25	50.40	1000.000	100.0	V	340.0	-2.0
2097.500000	31.10	82.25	51.15	1000.000	192.0	V	0.0	2.1
2464.000000	27.11	82.25	55.14	1000.000	136.0	V	34.0	3.3
2796.000000	36.08	82.25	46.17	1000.000	201.0	H	297.0	3.7

LTE, Band 12, Mid



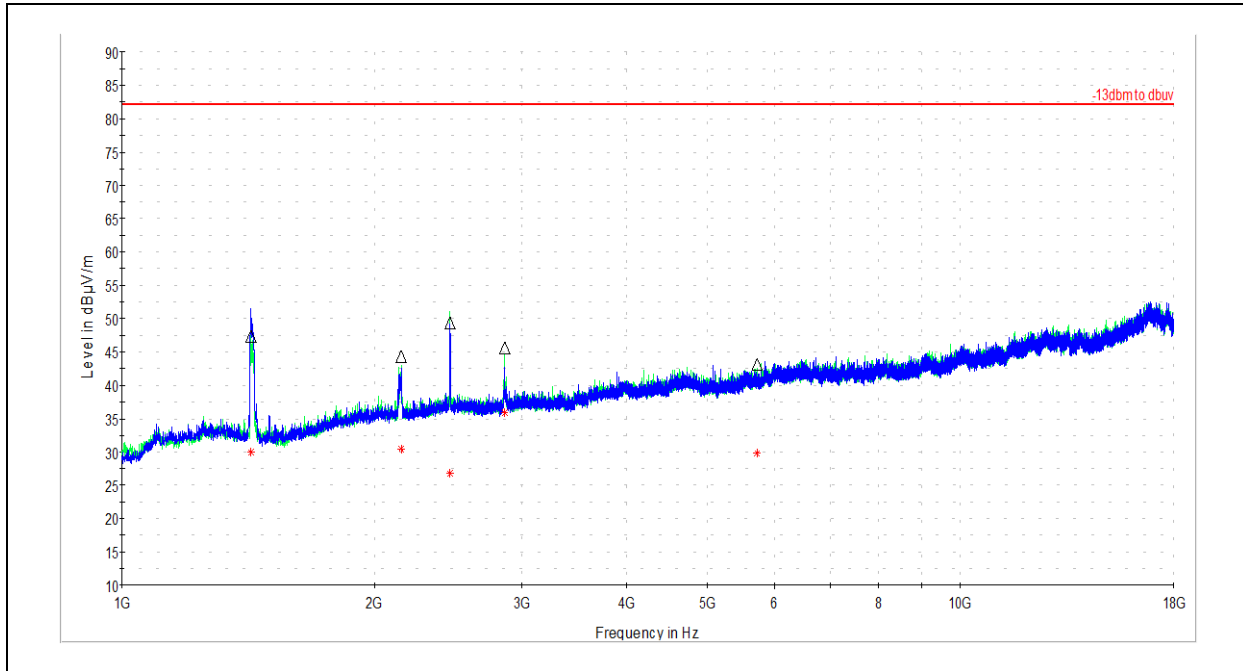
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1415.500000	45.06	82.25	37.19	1000.000	236.0	V	319.0	-2.1
1422.500000	48.32	82.25	33.93	1000.000	220.0	V	334.0	-2.2
2123.000000	47.37	82.25	34.88	1000.000	287.0	V	0.0	2.1
2437.500000	50.08	82.25	32.17	1000.000	377.0	H	273.0	3.4
2464.000000	40.15	82.25	42.1	1000.000	238.0	V	250.0	3.3
2830.000000	45.36	82.25	36.89	1000.000	354.0	H	247.0	3.7
3541.000000	40.03	82.25	42.22	1000.000	100.0	H	258.0	5.2
4247.500000	41.84	82.25	40.41	1000.000	100.0	H	333.0	6.4

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1415.500000	32.66	82.25	49.59	1000.000	236.0	V	319.0	-2.1
1422.500000	32.49	82.25	49.76	1000.000	220.0	V	334.0	-2.2
2123.000000	33.73	82.25	48.52	1000.000	287.0	V	0.0	2.1
2437.500000	28.81	82.25	53.44	1000.000	377.0	H	273.0	3.4
2464.000000	26.58	82.25	55.67	1000.000	238.0	V	250.0	3.3
2830.000000	35.80	82.25	46.45	1000.000	354.0	H	247.0	3.7
3541.000000	26.59	82.25	55.66	1000.000	100.0	H	258.0	5.2
4247.500000	28.84	82.25	53.41	1000.000	100.0	H	333.0	6.4

LTE, Band 12, High



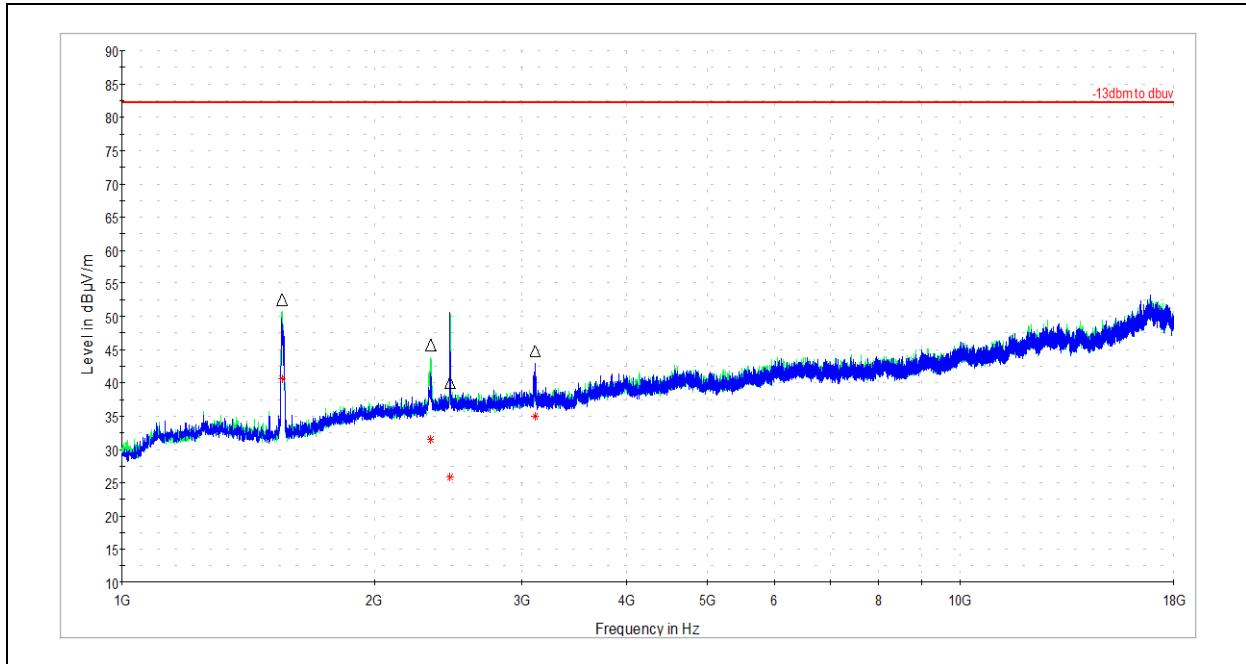
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1423.500000	47.32	82.25	34.93	1000.000	227.0	V	333.0	-2.2
2153.500000	44.29	82.25	37.96	1000.000	303.0	H	344.0	2.1
2462.500000	49.28	82.25	32.97	1000.000	143.0	H	89.0	3.5
2863.500000	45.62	82.25	36.63	1000.000	192.0	H	292.0	3.8
5724.000000	43.09	82.25	39.16	1000.000	100.0	H	325.0	8.5

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1423.500000	29.91	82.25	52.34	1000.000	227.0	V	333.0	-2.2
2153.500000	30.49	82.25	51.76	1000.000	303.0	H	344.0	2.1
2462.500000	26.71	82.25	55.54	1000.000	143.0	H	89.0	3.5
2863.500000	35.94	82.25	46.31	1000.000	192.0	H	292.0	3.8
5724.000000	29.81	82.25	52.44	1000.000	100.0	H	325.0	8.5

LTE, Band 13, Low



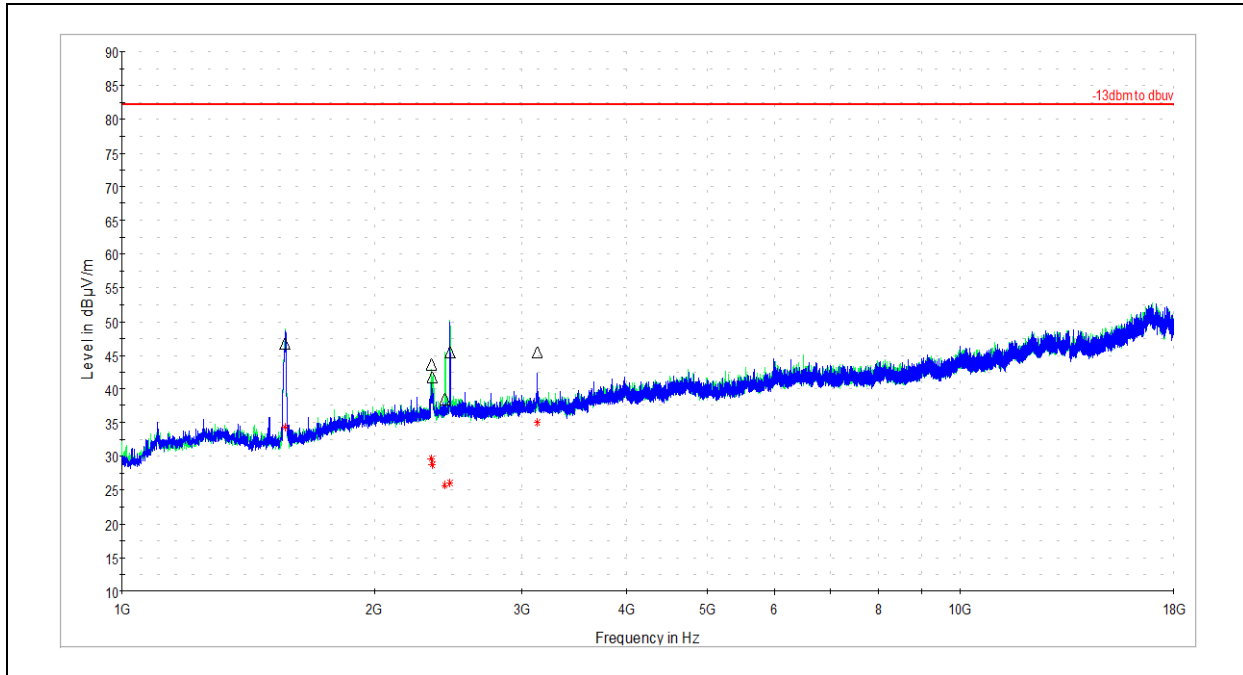
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1550.500000	52.56	82.25	29.69	1000.000	168.0	H	306.0	-2.4
2337.500000	45.69	82.25	36.56	1000.000	100.0	H	0.0	2.8
2464.000000	39.99	82.25	42.26	1000.000	236.0	V	37.0	3.3
3108.000000	44.80	82.25	37.45	1000.000	310.0	V	322.0	4.6

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1550.500000	40.68	82.25	41.57	1000.000	168.0	H	306.0	-2.4
2337.500000	31.54	82.25	50.71	1000.000	100.0	H	0.0	2.8
2464.000000	25.76	82.25	56.49	1000.000	236.0	V	37.0	3.3
3108.000000	35.02	82.25	47.23	1000.000	310.0	V	322.0	4.6

LTE, Band 13, Mid



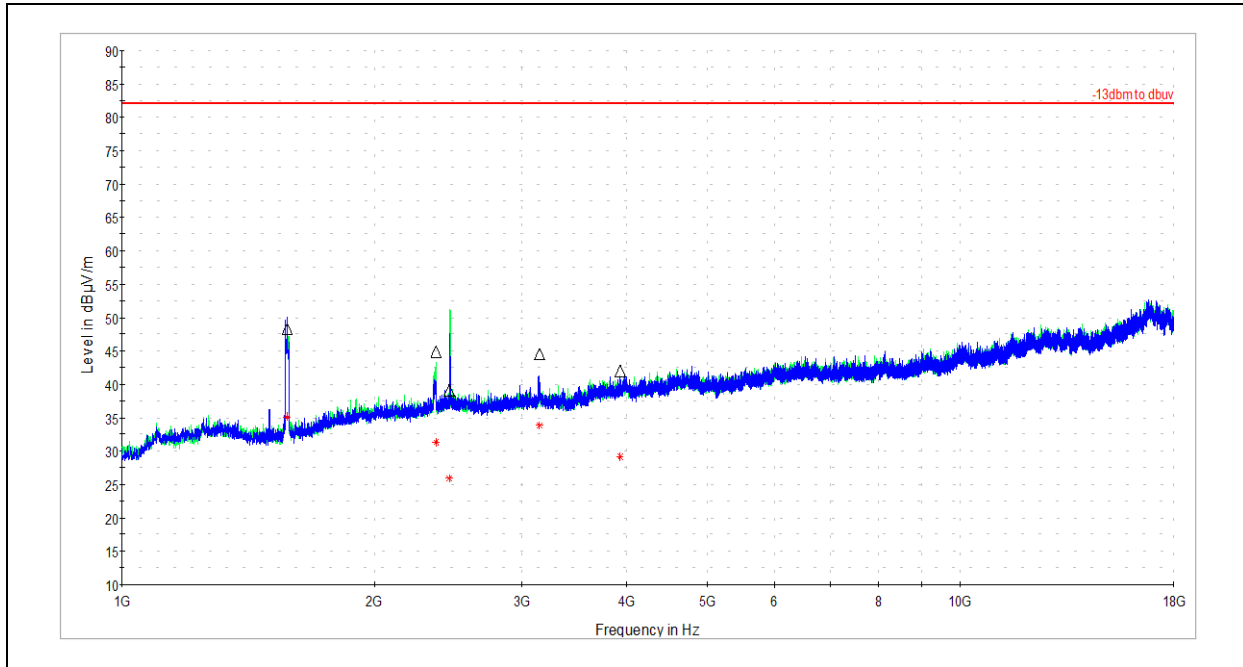
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1563.500000	46.80	82.25	35.45	1000.000	348.0	H	302.0	-2.2
2338.500000	43.65	82.25	38.6	1000.000	134.0	H	0.0	2.8
2344.500000	41.71	82.25	40.54	1000.000	100.0	H	346.0	2.8
2429.500000	38.62	82.25	43.63	1000.000	316.0	H	0.0	3.3
2461.500000	45.46	82.25	36.79	1000.000	157.0	H	158.0	3.5
3128.000000	45.51	82.25	36.74	1000.000	254.0	V	334.0	4.6

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1563.500000	34.39	82.25	47.86	1000.000	348.0	H	302.0	-2.2
2338.500000	29.60	82.25	52.65	1000.000	134.0	H	0.0	2.8
2344.500000	28.80	82.25	53.45	1000.000	100.0	H	346.0	2.8
2429.500000	25.68	82.25	56.57	1000.000	316.0	H	0.0	3.3
2461.500000	26.12	82.25	56.13	1000.000	157.0	H	158.0	3.5
3128.000000	35.07	82.25	47.18	1000.000	254.0	V	334.0	4.6

LTE, Band 13, High



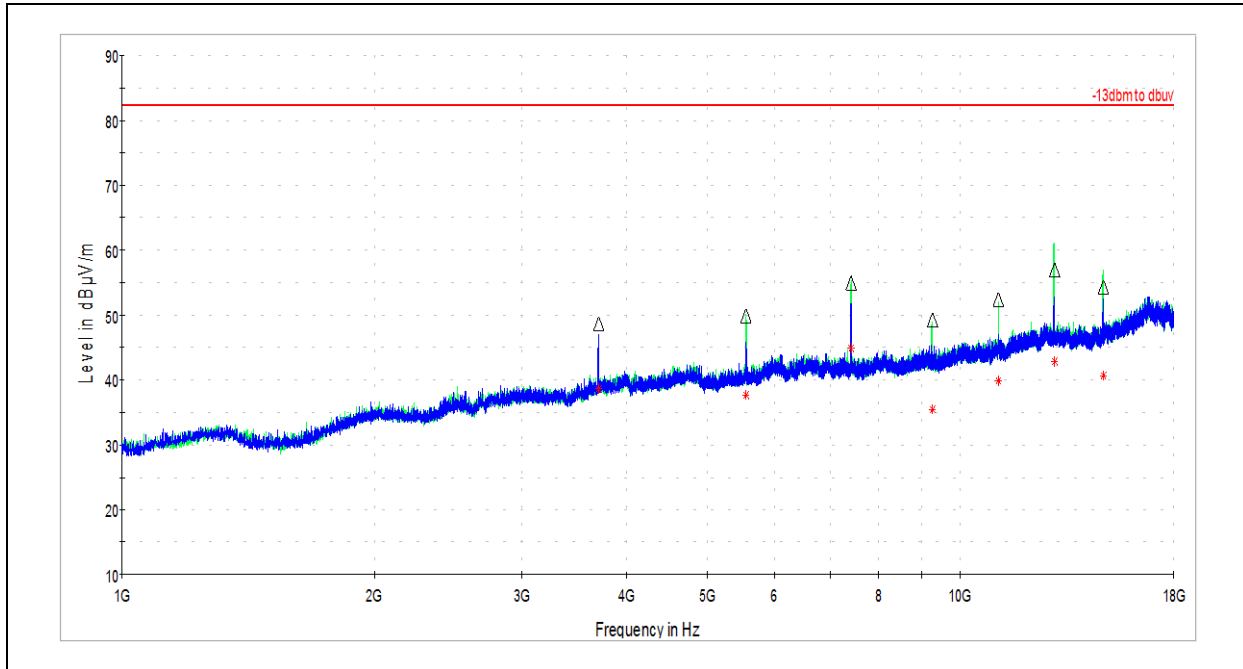
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1574.000000	48.33	82.25	33.92	1000.000	182.0	V	336.0	-1.8
2367.000000	44.92	82.25	37.33	1000.000	100.0	H	0.0	2.9
2458.500000	39.09	82.25	43.16	1000.000	326.0	H	309.0	3.5
3147.500000	44.54	82.25	37.71	1000.000	289.0	V	316.0	4.6
3930.500000	42.04	82.25	40.21	1000.000	100.0	H	325.0	6.3

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1574.000000	35.07	82.25	47.18	1000.000	182.0	V	336.0	-1.8
2367.000000	31.24	82.25	51.01	1000.000	100.0	H	0.0	2.9
2458.500000	25.91	82.25	56.34	1000.000	326.0	H	309.0	3.5
3147.500000	33.76	82.25	48.49	1000.000	289.0	V	316.0	4.6
3930.500000	29.09	82.25	53.16	1000.000	100.0	H	325.0	6.3

WCDMA, Band 2, Low



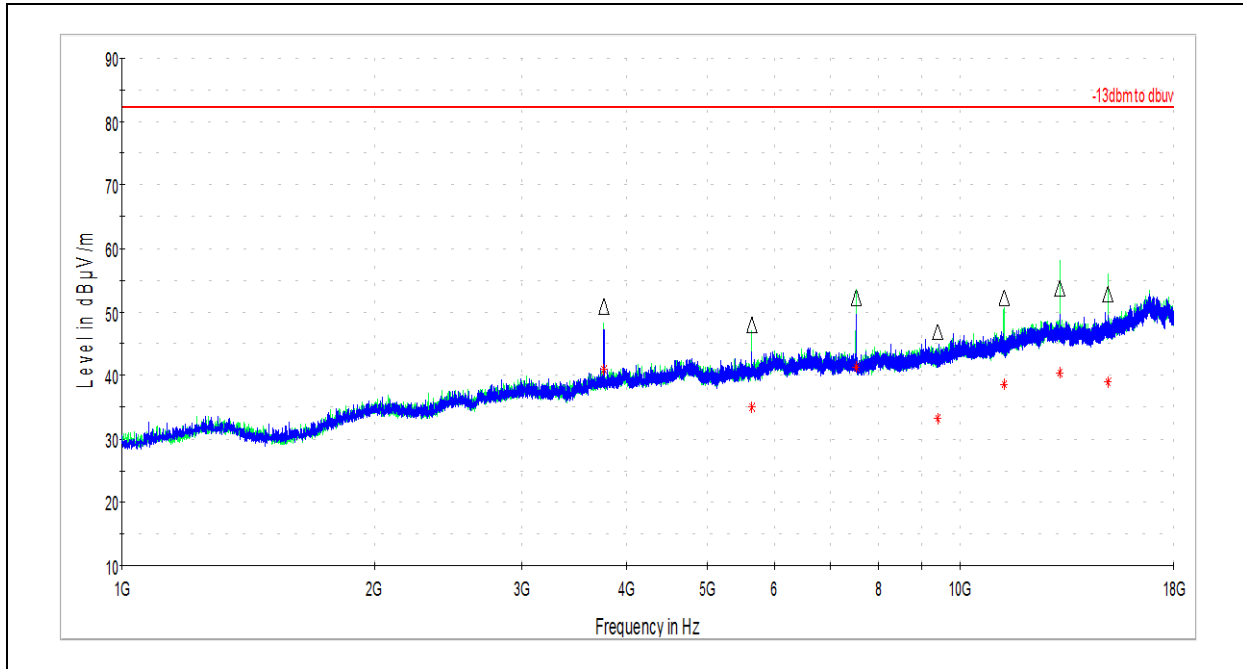
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3706.500000	48.73	82.25	33.52	1000.000	230.0	V	236.0	5.8
5559.500000	49.92	82.25	32.33	1000.000	227.0	H	324.0	8.9
7412.500000	55.02	82.25	27.23	1000.000	336.0	H	0.0	10.7
9268.500000	49.29	82.25	32.96	1000.000	246.0	H	268.0	12.2
11116.500000	52.42	82.25	29.83	1000.000	212.0	H	308.0	15.0
12974.000000	56.94	82.25	25.31	1000.000	253.0	H	308.0	17.3
14822.500000	54.29	82.25	27.96	1000.000	219.0	H	313.0	17.8

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3706.500000	38.53	82.25	43.72	1000.000	230.0	V	236.0	5.8
5559.500000	37.71	82.25	44.54	1000.000	227.0	H	324.0	8.9
7412.500000	44.88	82.25	37.37	1000.000	336.0	H	0.0	10.7
9268.500000	35.43	82.25	46.82	1000.000	246.0	H	268.0	12.2
11116.500000	39.86	82.25	42.39	1000.000	212.0	H	308.0	15.0
12974.000000	42.91	82.25	39.34	1000.000	253.0	H	308.0	17.3
14822.500000	40.68	82.25	41.57	1000.000	219.0	H	313.0	17.8

WCDMA, Band 2, Mid



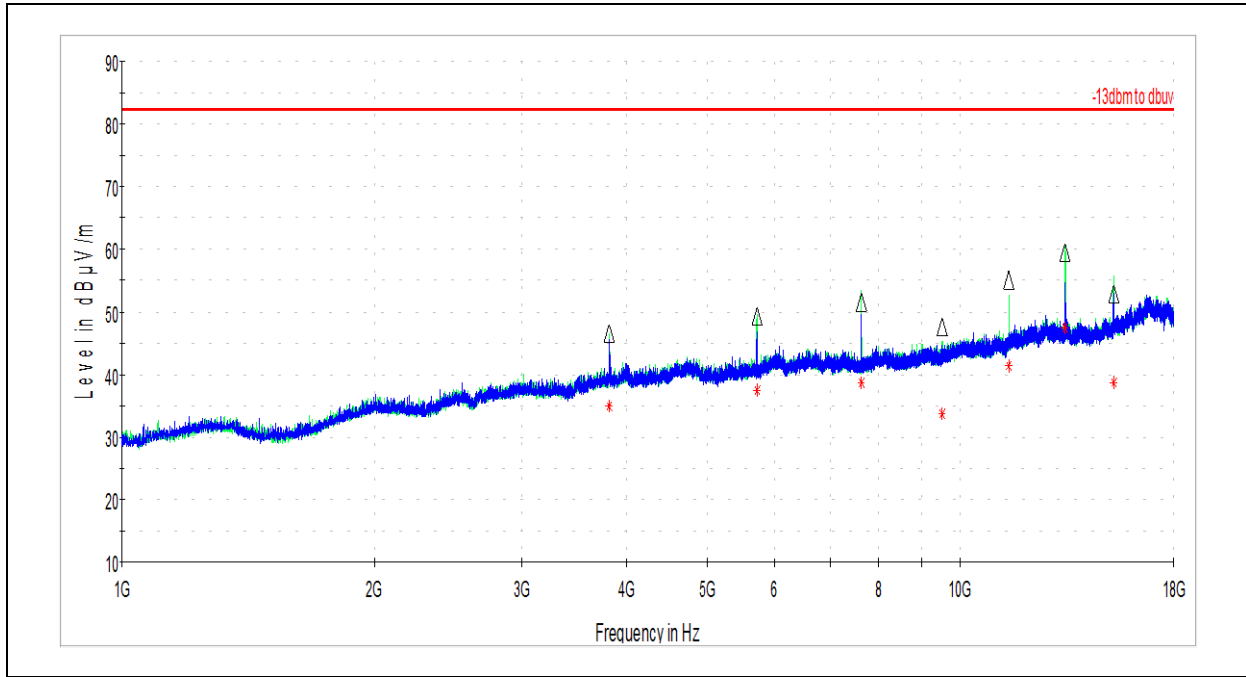
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3762.000000	50.74	82.25	31.51	1000.000	313.0	H	288.0	5.9
5642.000000	47.97	82.25	34.28	1000.000	235.0	H	322.0	8.8
7517.500000	52.27	82.25	29.98	1000.000	342.0	H	0.0	10.9
9404.000000	46.78	82.25	35.47	1000.000	176.0	H	300.0	12.5
11286.500000	52.22	82.25	30.03	1000.000	257.0	H	310.0	14.8
13153.000000	53.75	82.25	28.5	1000.000	226.0	H	308.0	17.0
15031.500000	52.72	82.25	29.53	1000.000	210.0	H	311.0	18.0

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3762.000000	40.93	82.25	41.32	1000.000	313.0	H	288.0	5.9
5642.000000	34.98	82.25	47.27	1000.000	235.0	H	322.0	8.8
7517.500000	41.31	82.25	40.94	1000.000	342.0	H	0.0	10.9
9404.000000	33.20	82.25	49.05	1000.000	176.0	H	300.0	12.5
11286.500000	38.56	82.25	43.69	1000.000	257.0	H	310.0	14.8
13153.000000	40.36	82.25	41.89	1000.000	226.0	H	308.0	17.0
15031.500000	38.98	82.25	43.27	1000.000	210.0	H	311.0	18.0

WCDMA, Band 2, High



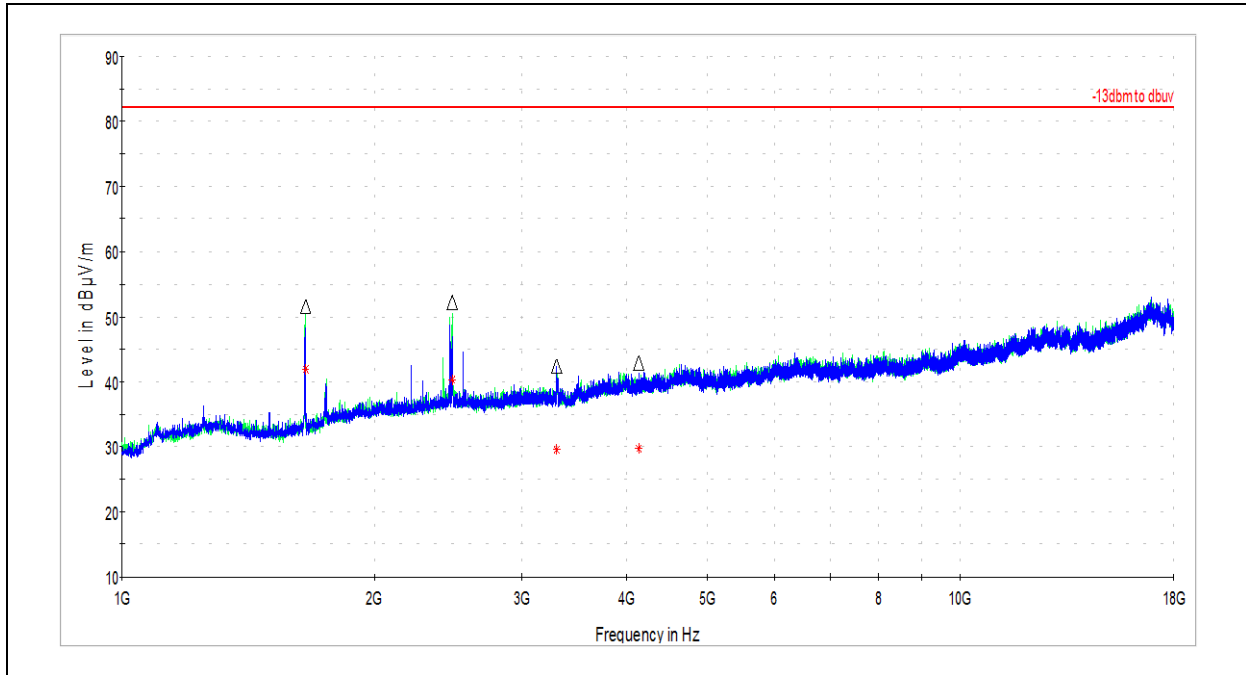
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3813.000000	46.57	82.25	35.68	1000.000	330.0	H	244.0	6.1
5726.000000	49.33	82.25	32.92	1000.000	253.0	H	319.0	8.5
7626.000000	51.63	82.25	30.62	1000.000	109.0	H	285.0	10.6
9531.500000	47.57	82.25	34.68	1000.000	276.0	H	0.0	12.9
11440.000000	55.15	82.25	27.1	1000.000	281.0	H	320.0	15.1
13357.000000	59.39	82.25	22.86	1000.000	237.0	H	312.0	16.7
15260.000000	52.78	82.25	29.47	1000.000	201.0	H	311.0	18.4

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3813.000000	35.03	82.25	47.22	1000.000	330.0	H	244.0	6.1
5726.000000	37.39	82.25	44.86	1000.000	253.0	H	319.0	8.5
7626.000000	38.62	82.25	43.63	1000.000	109.0	H	285.0	10.6
9531.500000	33.75	82.25	48.50	1000.000	276.0	H	0.0	12.9
11440.000000	41.33	82.25	40.92	1000.000	281.0	H	320.0	15.1
13357.000000	47.49	82.25	34.76	1000.000	237.0	H	312.0	16.7
15260.000000	38.76	82.25	43.49	1000.000	201.0	H	311.0	18.4

WCDMA, Band 5, Low



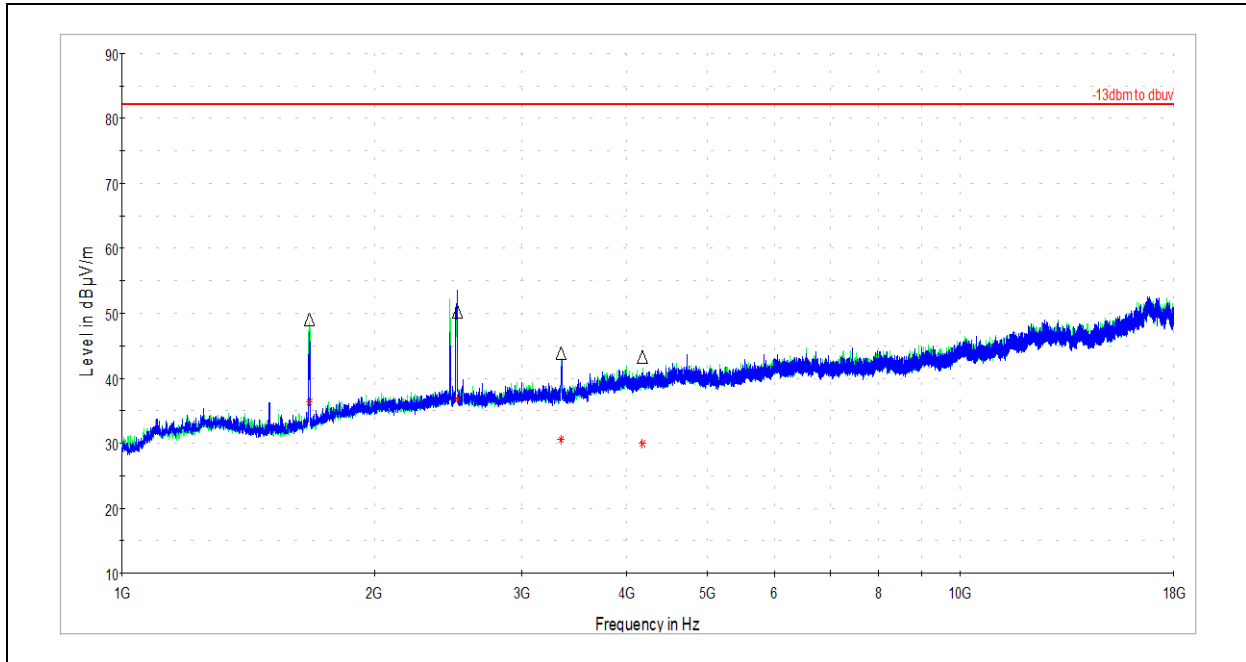
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1655.000000	51.62	82.25	30.63	1000.000	177.0	H	315.0	-1.0
2477.000000	52.13	82.25	30.12	1000.000	100.0	H	0.0	3.5
3302.000000	42.47	82.25	39.78	1000.000	279.0	V	212.0	4.7
4133.500000	42.88	82.25	39.37	1000.000	133.0	H	325.0	6.4

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1655.000000	41.88	82.25	40.37	1000.000	177.0	H	315.0	-1.0
2477.000000	40.33	82.25	41.92	1000.000	100.0	H	0.0	3.5
3302.000000	29.50	82.25	52.75	1000.000	279.0	V	212.0	4.7
4133.500000	29.68	82.25	52.57	1000.000	133.0	H	325.0	6.4

WCDMA, Band 5, Mid



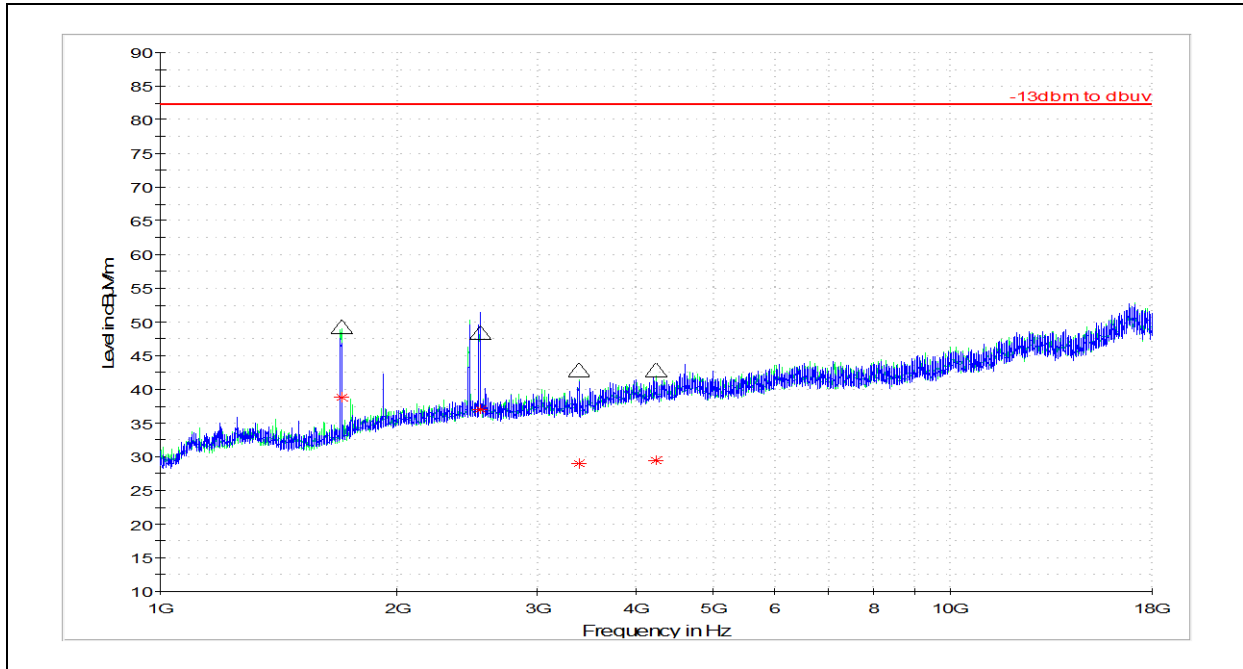
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1674.500000	48.99	82.25	33.26	1000.000	198.0	H	332.0	-1.0
2511.500000	50.28	82.25	31.97	1000.000	276.0	V	246.0	3.3
3339.000000	43.90	82.25	38.35	1000.000	109.0	H	259.0	4.7
4179.000000	43.21	82.25	39.04	1000.000	384.0	V	328.0	6.4

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1674.500000	36.39	82.25	45.86	1000.000	198.0	H	332.0	-1.0
2511.500000	36.73	82.25	45.52	1000.000	276.0	V	246.0	3.3
3339.000000	30.48	82.25	51.77	1000.000	109.0	H	259.0	4.7
4179.000000	29.95	82.25	52.30	1000.000	384.0	V	328.0	6.4

WCDMA, Band 5, High



Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1695.500000	49.27	82.25	32.98	1000.000	199.0	H	327.0	-1.0
2540.500000	48.49	82.25	33.76	1000.000	410.0	V	230.0	3.5
3391.500000	43.00	82.25	39.25	1000.000	166.0	H	313.0	4.6
4238.500000	42.88	82.25	39.37	1000.000	117.0	H	322.0	6.4

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1695.500000	38.74	82.25	43.51	1000.000	199.0	H	327.0	-1.0
2540.500000	37.00	82.25	45.25	1000.000	410.0	V	230.0	3.5
3391.500000	29.05	82.25	53.20	1000.000	166.0	H	313.0	4.6
4238.500000	29.50	82.25	52.75	1000.000	117.0	H	322.0	6.4

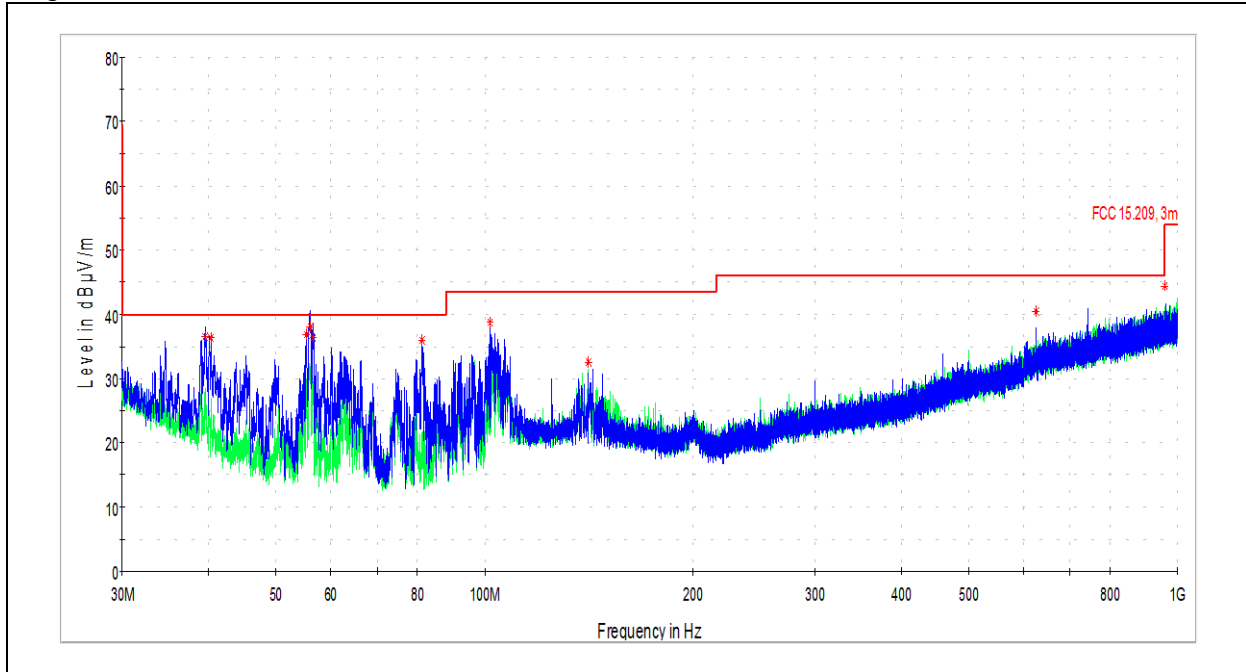
5.10 Test Results (Simultaneous Transmission Spurious Emissions):

The device was found to be **compliant** with the radiated spurious emission limits from FCC Part 22, FCC Part 24, FCC Part 27, RSS-132, RSS-133, RSS-139 and the limits from FCC part 15.247, part 15.407, and RSS-247 with simultaneous transmissions occurring between Cellular/Bluetooth and Cellular/WiFi radios. The worst case transmit mode was chosen for the simultaneous transmission testing.

Simultaneous Cell/Bluetooth/Wi-Fi

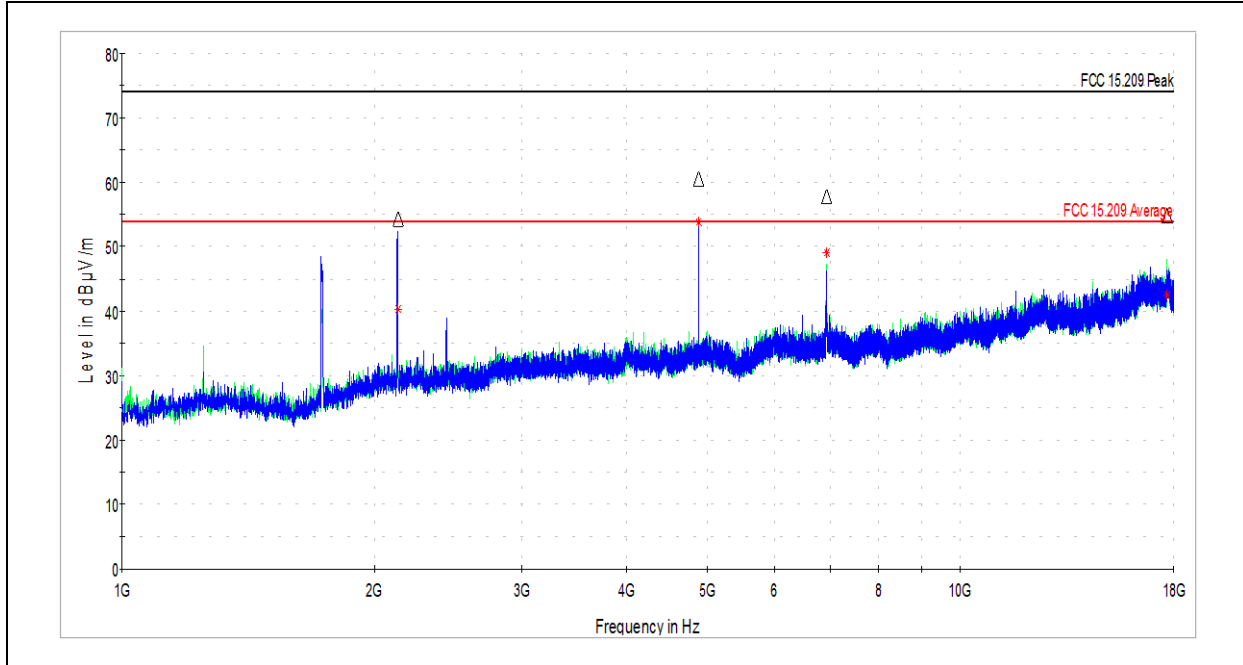
LTE, Band 4, Mid/Bluetooth, BLE, Mid

Bilog .03-1GHz



Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
39.527000	36.55	40.00	3.45	120.000	104.8	V	82.0	20.3
40.332000	36.34	40.00	3.66	120.000	100.1	V	174.0	19.8
55.284000	36.80	40.00	3.20	120.000	129.7	V	8.0	14.7
56.026000	38.02	40.00	1.98	120.000	106.6	V	148.0	14.7
56.516000	36.34	40.00	3.66	120.000	100.6	V	183.0	14.7
81.219000	36.03	40.00	3.97	120.000	110.2	V	110.0	14.9
101.860000	38.76	43.50	4.74	120.000	100.1	V	8.0	18.9
141.220000	32.56	43.50	10.94	120.000	201.3	H	184.0	21.2
625.010000	40.39	46.00	5.61	120.000	141.3	V	81.0	30.5
958.860000	44.35	46.00	1.65	120.000	370.6	H	36.0	35.5

Horn 1-18GHz



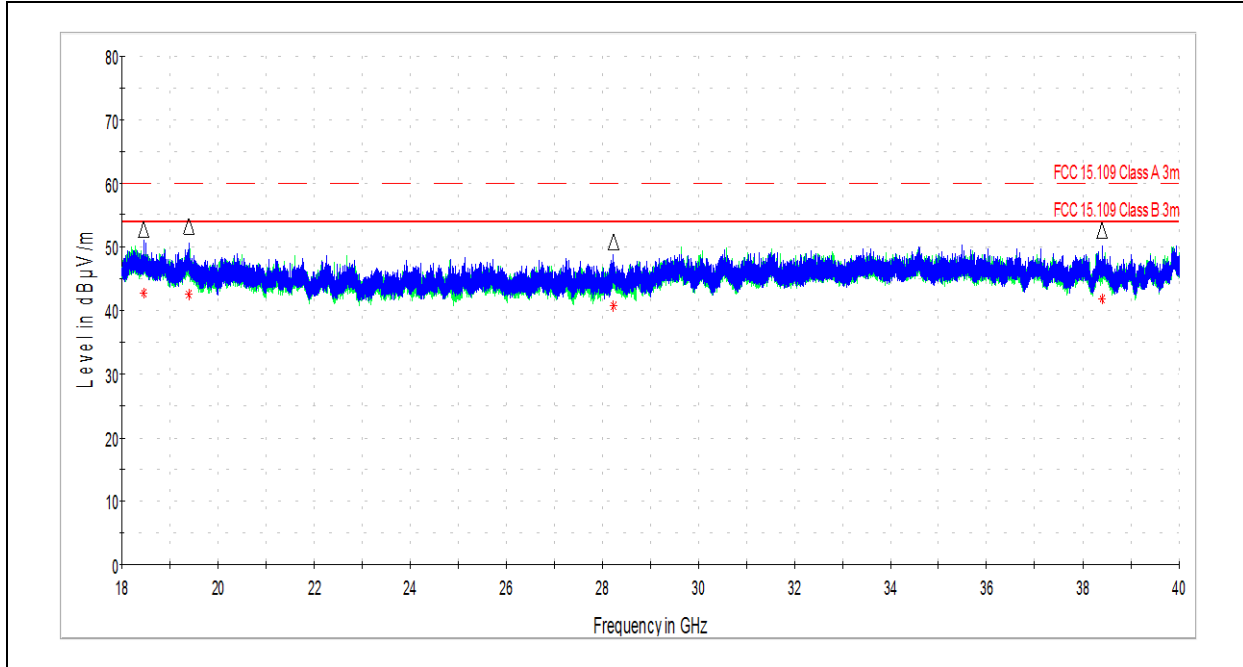
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2133.500000	54.35	74.00	19.65	1000.0	1000.000	159.0	V	0.0	2.5
4880.500000	60.51	74.00	13.49	1000.0	1000.000	245.0	V	158.0	7.5
6930.200000	57.85	74.00	16.15	1000.0	1000.000	109.0	H	323.0	10.9
17684.900000	54.83	74.00	19.17	1000.0	1000.000	392.0	H	241.0	23.4

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2133.500000	40.29	54.00	13.71	1000.0	1000.000	159.0	V	0.0	2.5
4880.500000	53.79	54.00	0.21	1000.0	1000.000	245.0	V	158.0	7.5
6930.200000	49.13	54.00	4.87	1000.0	1000.000	109.0	H	323.0	10.9
17684.900000	42.45	54.00	11.55	1000.0	1000.000	392.0	H	241.0	23.4

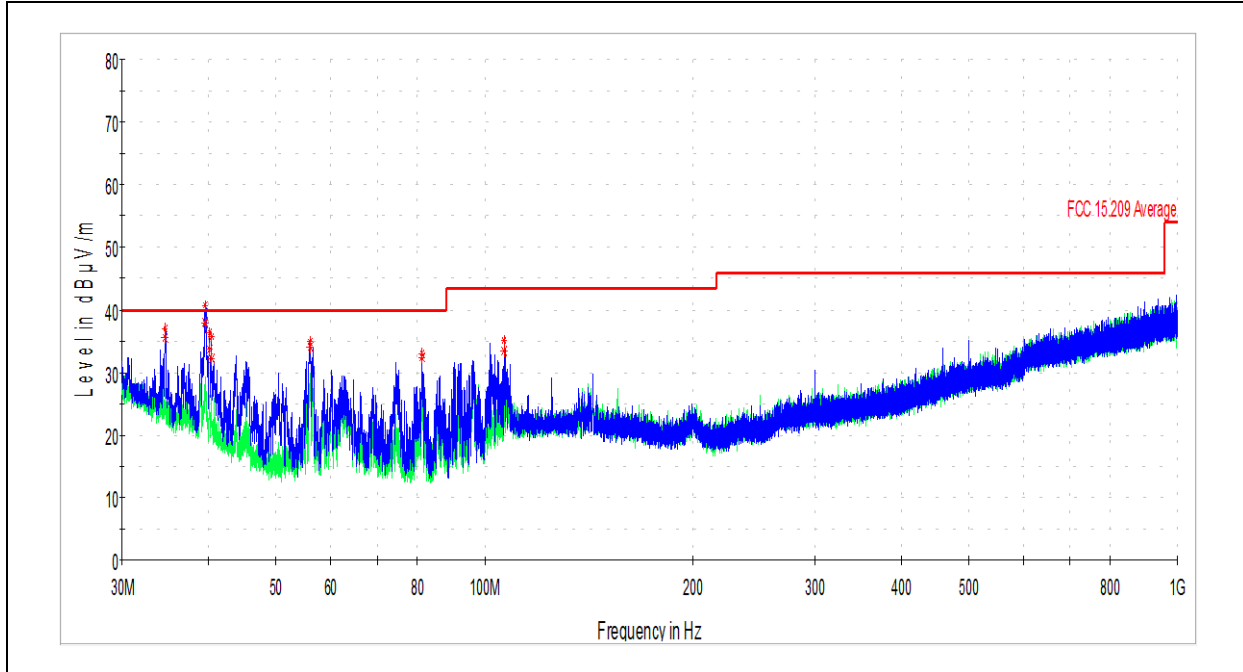
Horn 18-40GHz



Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
18449.201818	42.68	54.00	11.32	1.0	1000.000	345.0	V	288.0
19392.172727	42.49	54.00	11.51	1.0	1000.000	363.0	V	118.0
28228.300000	40.79	54.00	13.21	1.0	1000.000	354.0	V	85.0
38403.950909	41.73	54.00	12.27	1.0	1000.000	130.0	V	241.0

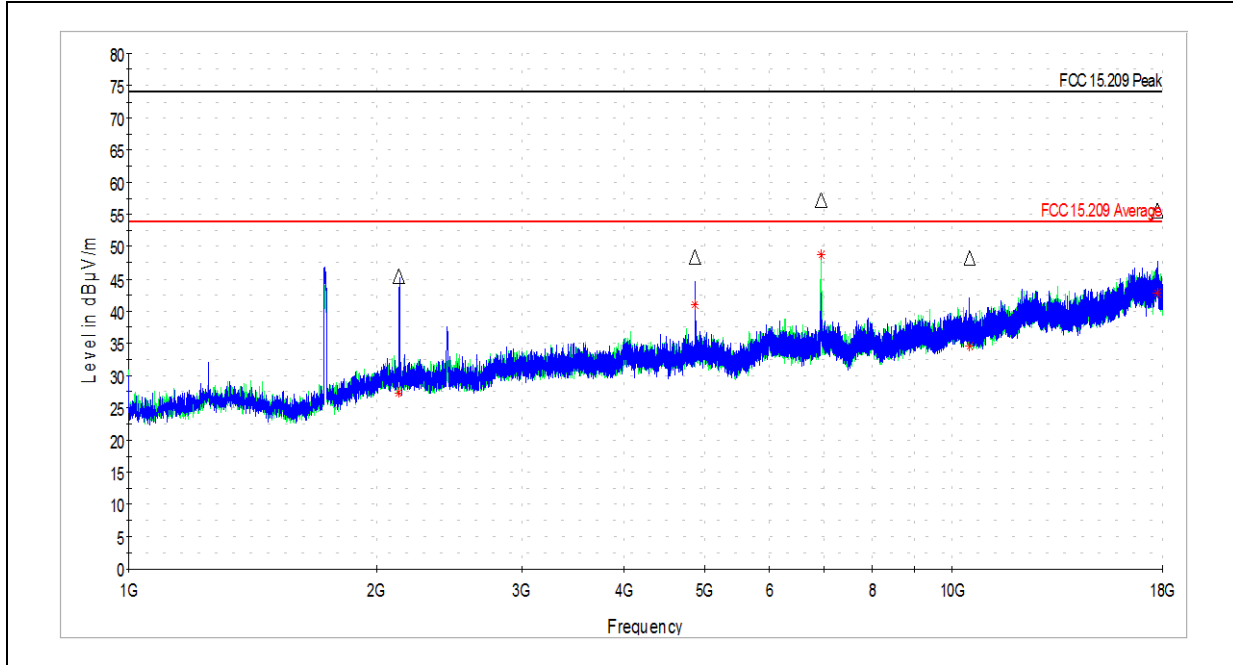
LTE, Band 4, Mid/2.4 Wi-Fi, 802.11B, Mid

Bilog .03-1GHz



Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
34.634000	35.63	40.00	4.37	120.000	105.0	V	137.0	23.4
40.101000	33.73	40.00	6.27	120.000	105.4	V	111.0	20.0
40.360000	32.17	40.00	7.83	120.000	105.0	V	111.0	19.8
56.005000	34.04	40.00	5.96	120.000	100.5	V	285.0	14.7
81.212000	32.34	40.00	7.66	120.000	106.4	V	130.0	14.9
106.660000	33.47	43.52	10.05	120.000	225.1	V	340.0	20.1
39.485000	37.78	40.00	2.22	120.000	100.0	V	89.0	20.3

Horn 1-18GHz



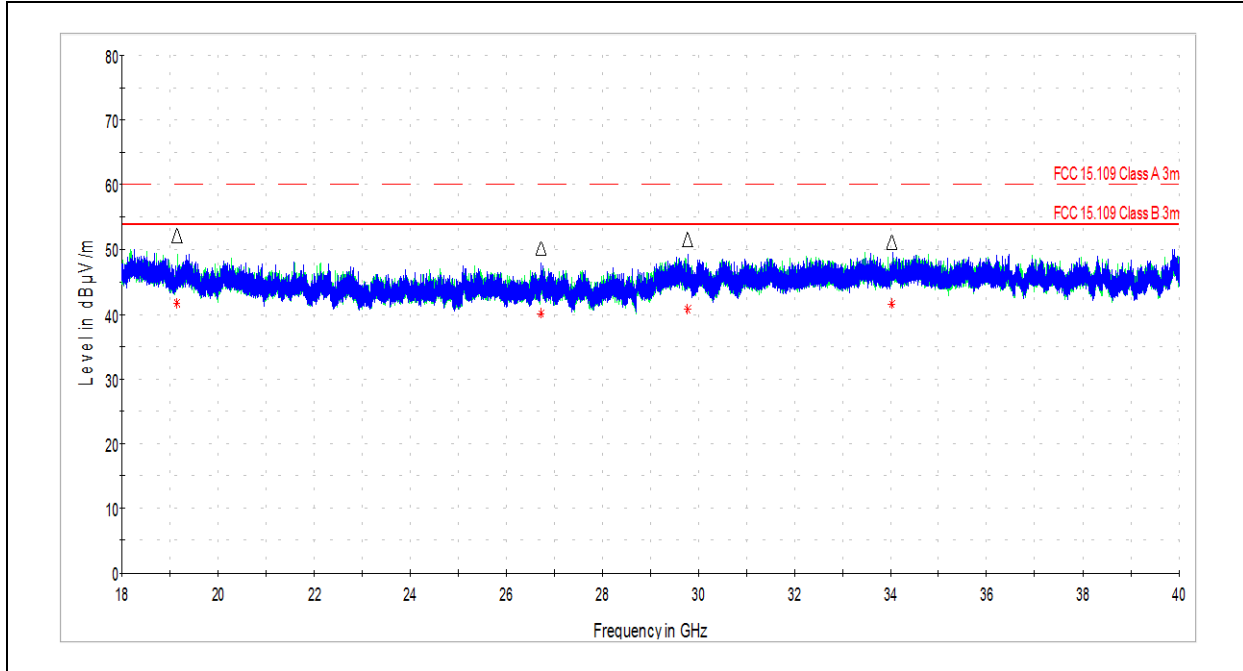
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2128.300000	45.44	74.00	28.56	1000.0	1000.000	395.0	V	201.0	2.5
4874.100000	48.34	74.00	25.66	1000.0	1000.000	242.0	V	344.0	7.5
6930.000000	57.36	74.00	16.64	1000.0	1000.000	314.0	H	0.0	10.9
10494.500000	48.15	74.00	25.85	1000.0	1000.000	111.0	V	158.0	15.1
17739.700000	55.66	74.00	18.34	1000.0	1000.000	335.0	V	334.0	23.4

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2128.300000	27.39	54.00	26.61	1000.0	1000.000	395.0	V	201.0	2.5
4874.100000	40.97	54.00	13.03	1000.0	1000.000	242.0	V	344.0	7.5
6930.000000	48.65	54.00	5.35	1000.0	1000.000	314.0	H	0.0	10.9
10494.500000	34.51	54.00	19.49	1000.0	1000.000	111.0	V	158.0	15.1
17739.700000	42.72	54.00	11.28	1000.0	1000.000	335.0	V	334.0	23.4

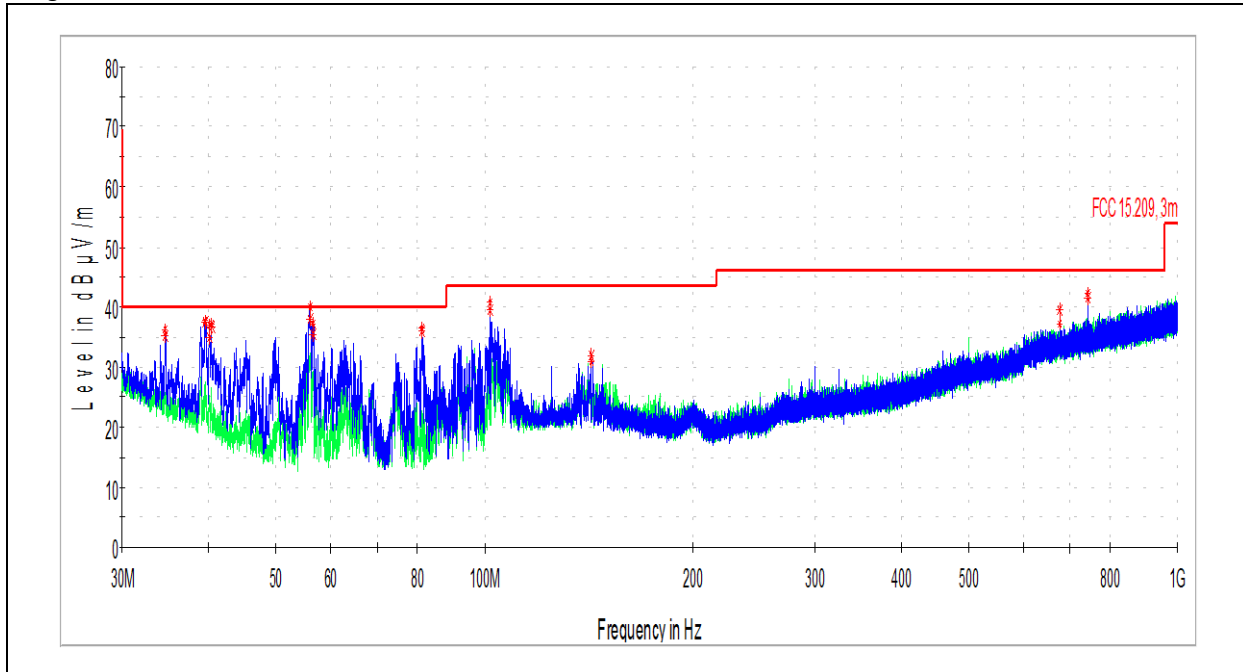
Horn 18-40GHz



Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
19146.843637	41.65	54.00	12.35	1.0	1000.000	359.0	H	182.0
26717.923636	40.06	54.00	13.94	1.0	1000.000	163.0	V	7.0
29776.021818	40.72	54.00	13.28	1.0	1000.000	285.0	V	156.0
34027.778182	41.51	54.00	12.49	1.0	1000.000	210.0	V	109.0

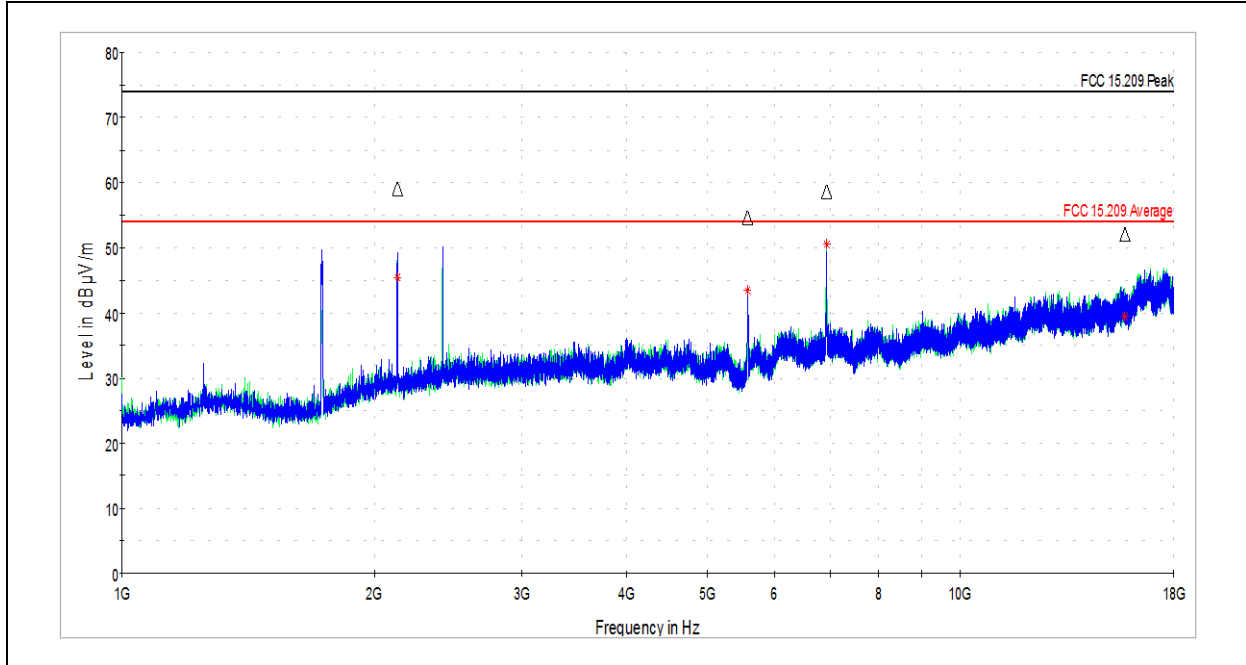
LTE, Band 4, Mid/U-NII-2C, 802.11A, Mid

Bilog .03-1GHz



Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
34.613000	35.28	40.00	4.72	120.000	105.2	V	28.0	23.4
39.492000	37.40	40.00	2.60	120.000	100.4	V	119.0	20.3
40.073000	34.97	40.00	5.03	120.000	99.7	V	101.0	20.0
40.353000	36.79	40.00	3.21	120.000	100.3	V	138.0	19.8
56.005000	37.95	40.00	2.05	120.000	100.0	V	181.0	14.7
56.530000	35.56	40.00	4.44	120.000	100.2	V	192.0	14.7
81.191000	35.88	40.00	4.12	120.000	100.2	V	110.0	14.9
101.880000	39.56	43.50	3.94	120.000	100.6	V	8.0	19.0
142.700000	31.85	43.50	11.65	120.000	100.0	V	193.0	21.1
677.210000	39.38	46.00	6.62	120.000	129.4	V	285.0	31.6
741.800000	41.62	46.00	4.38	120.000	236.9	V	100.0	32.4

Horn 1-18GHz



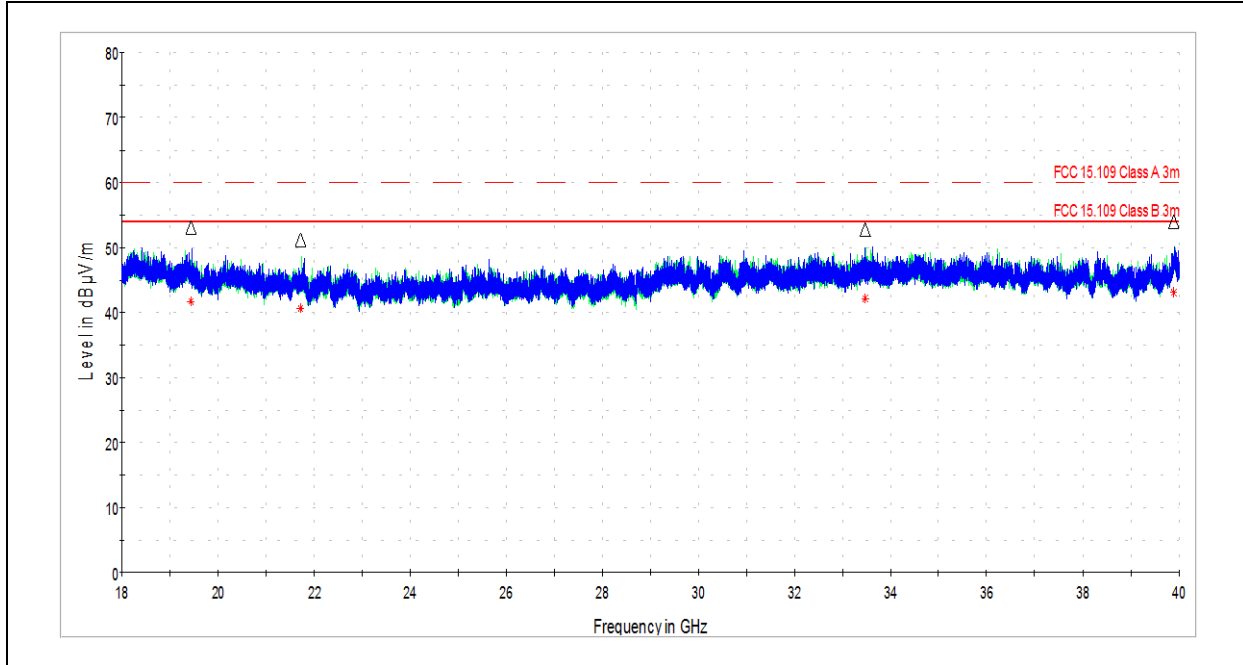
Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2133.200000	59.18	74.00	14.82	1000.0	1000.000	289.0	V	17.0	2.5
5583.000000	54.73	74.00	19.27	1000.0	1000.000	225.0	V	207.0	8.5
6929.900000	58.73	74.00	15.27	1000.0	1000.000	169.0	H	324.0	10.9
15738.100000	52.11	74.00	21.89	1000.0	1000.000	130.0	H	0.0	21.1

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2133.200000	45.38	54.00	8.62	1000.0	1000.000	289.0	V	17.0	2.5
5583.000000	43.44	54.00	10.56	1000.0	1000.000	225.0	V	207.0	8.5
6929.900000	50.46	54.00	3.54	1000.0	1000.000	169.0	H	324.0	10.9
15738.100000	39.39	54.00	14.61	1000.0	1000.000	130.0	H	0.0	21.1

Horn 18-40GHz



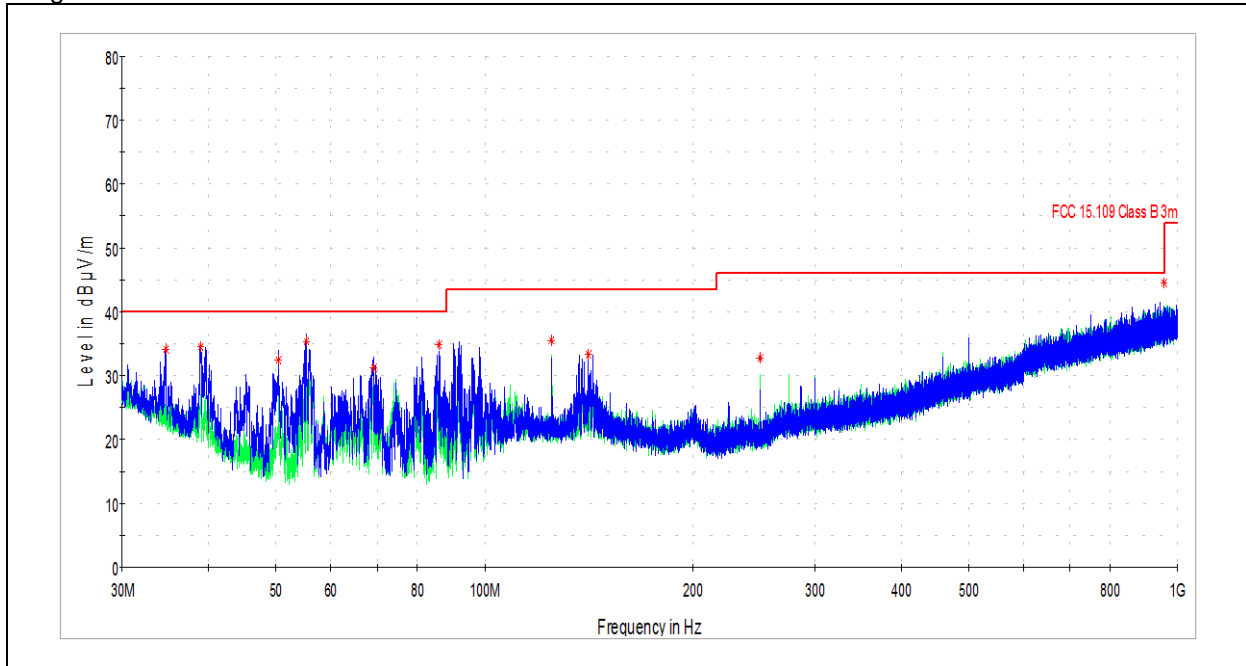
Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
19433.666364	41.72	54.00	12.28	1.0	1000.000	274.0	V	233.0
21717.273636	40.68	54.00	13.32	1.0	1000.000	191.0	H	358.0
33474.192728	42.20	54.00	11.80	1.0	1000.000	153.0	V	180.0
39897.492728	43.06	54.00	10.94	1.0	1000.000	291.0	V	41.0

6 Radiated Spurious Emissions (Receiver)

6.1 Test Results (Receiver):

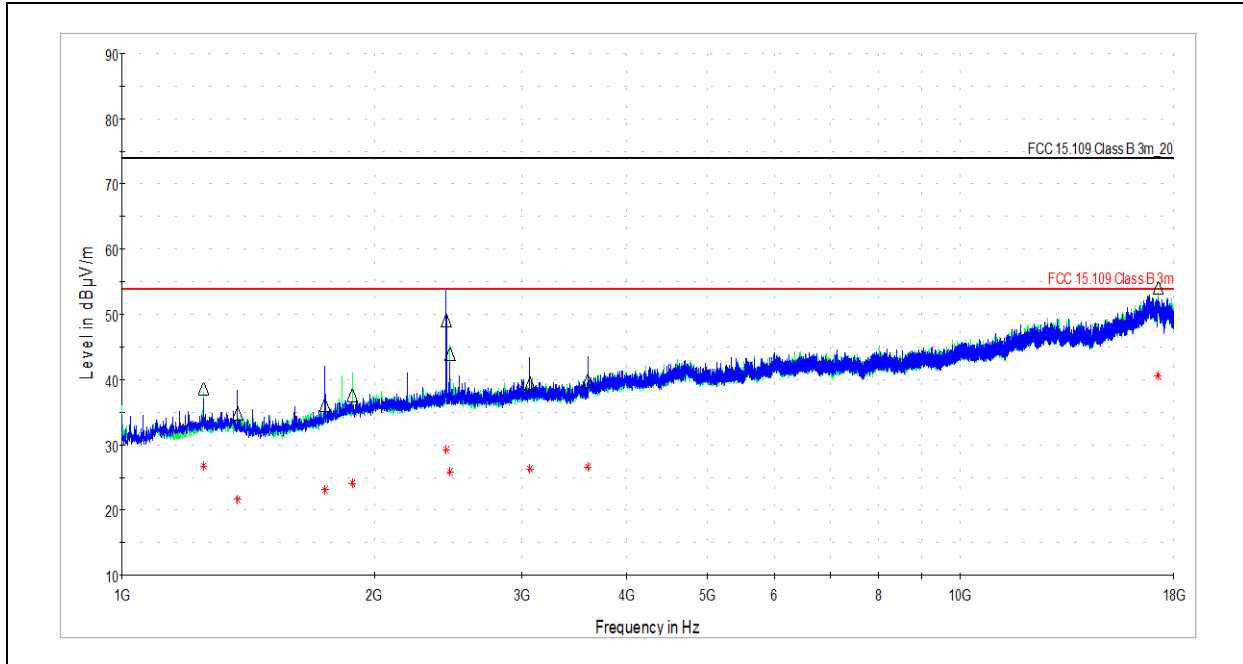
The device was found to be **compliant** with the radiated idle mode spurious emission limits from FCC Part 15B and RSS-Gen. There were no emissions above the limit when all radio transmitters were idle and all receivers in receive mode.

Bilog .03-1GHz



Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
34.648000	34.19	40.00	5.81	120.000	105.6	V	46.0	23.4
38.974000	34.40	40.00	5.60	120.000	107.2	V	240.0	20.7
50.419000	32.44	40.00	7.56	120.000	106.4	V	121.0	15.1
55.312000	35.40	40.00	4.60	120.000	100.1	V	304.0	14.7
69.151000	31.14	40.00	8.86	120.000	105.6	V	282.0	15.4
86.042000	34.89	40.00	5.11	120.000	118.3	V	286.0	15.0
124.980000	35.44	43.52	8.08	120.000	236.2	H	138.0	21.7
141.200000	33.32	43.52	10.20	120.000	100.0	V	0.0	21.2
250.000000	32.80	46.02	13.22	120.000	118.3	H	138.0	20.7
956.600000	44.42	46.02	1.60	120.000	392.9	V	286.0	35.5

Horn 1-18GHz



Peak

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1249.500000	38.72	74.00	35.28	1000.000	109.0	H	302.0	-1.4
1374.000000	34.86	74.00	39.14	1000.000	392.0	V	341.0	-1.5
1746.500000	36.22	74.00	37.78	1000.000	260.0	V	164.0	0.1
1883.500000	37.72	74.00	36.28	1000.000	100.0	H	66.0	1.3
2437.500000	49.18	74.00	24.82	1000.000	338.0	H	269.0	3.4
2460.500000	43.95	74.00	30.05	1000.000	345.0	H	156.0	3.5
3069.500000	39.40	74.00	34.60	1000.000	100.0	V	254.0	4.4
3597.500000	39.88	74.00	34.12	1000.000	100.0	V	339.0	5.2
17232.000000	54.05	74.00	19.95	1000.000	410.0	H	0.0	21.7

Average

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1249.500000	26.77	54.00	27.23	1000.000	109.0	H	302.0	-1.4
1374.000000	21.55	54.00	32.45	1000.000	392.0	V	341.0	-1.5
1746.500000	23.15	54.00	30.85	1000.000	260.0	V	164.0	0.1
1883.500000	24.13	54.00	29.87	1000.000	100.0	H	66.0	1.3
2437.500000	29.26	54.00	24.74	1000.000	338.0	H	269.0	3.4
2460.500000	25.90	54.00	28.10	1000.000	345.0	H	156.0	3.5
3069.500000	26.37	54.00	27.63	1000.000	100.0	V	254.0	4.4
3597.500000	26.66	54.00	27.34	1000.000	100.0	V	339.0	5.2
17232.000000	40.65	54.00	13.35	1000.000	410.0	H	0.0	21.7

Test Personnel: Michael Carlson
Supervising/Reviewing
Engineer:
(Where Applicable) NA
Input Voltage: 12VDC

Test Date: 10/05/2018
Ambient Temperature: 23.2C
Relative Humidity: 52.8%
Atmospheric Pressure: 984.5mbar

7 Antenna Requirement per FCC Part 15.203

7.1 Test Limits:

§ 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, or §15.221. 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 (8.3): 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. 8 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.

7.2 Test Results:

The device was found to be **compliant**. The sample used was declared by Tait Communications to be intended for professional installation. A standard SMA connector, as is installed on the Tait Unified Vehicle (R2.0) is acceptable.

7.3 Test Conditions:

Test Personnel: <u>Michael Carlson</u> Supervising/Reviewing Engineer: (Where Applicable) <u>NA</u> Input Voltage: <u>12VDC</u>	Test Date: <u>10/10/2018</u> Ambient Temperature: <u>22.7C</u> Relative Humidity: <u>52.1%</u> Atmospheric Pressure: <u>982.0mbar</u>
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8 Measurement Uncertainty

The measured value related to the corresponding limit will be used to decide whether the equipment meets the requirements.

The measurement uncertainty figures were calculated and correspond to a coverage factor of $k = 2$, providing a confidence level of respectively 95.45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian).

Measurement uncertainty Table

Parameter	Uncertainty	Notes
Radiated emissions, 30 to 1000 MHz	$\pm 3.9\text{dB}$	
Radiated emissions, 1 to 18 GHz	$\pm 4.2\text{dB}$	
Radiated emissions, 18 to 40 GHz	$\pm 4.3\text{dB}$	
Power Port Conducted emissions, 150kHz to 30 MHz	$\pm 2.8\text{dB}$	

9 Revision History

Revision Level	Date	Report Number	Notes
0	10/19/2018	103689808LEX-001	Original Issue