TEST REPORT

Class 2 Permissive Change

Report Number: 105964951MPK-047
Project Numbers G105964951
Report Issue Date: January 29, 2025

Testing performed on
Communication Badge
Model Number: B7000

FCC ID: Z7AB7000
IC: 4919E-B7000

to

FCC Part 15 Subpart C (15.247)
ISED RSS-247 Issue 3

For

Stryker Medical

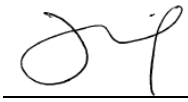
Test Performed by:	**Test Authorized by:**
Intertek	Stryker Medical
1365 Adams Court	3030 Orchard Parkway.
Menlo Park, CA 94025 USA	San Jose, CA 95134 USA

Prepared by: _____ **Date:** January 29, 2025
Gabriel Angelo Carreon

Reviewed by: _____ **Date:** January 29, 2025
Anderson Soungpanya

Report No. 105452189MPK-001	
Equipment Under Test:	Communication Badge
Model Number:	B7000
Applicant:	Stryker Medical
Contact:	Lionel Gabrillo
Address:	3030 Orchard Parkway San Jose, CA 95134
Country:	USA
Tel. Number:	+1 (408) 833-6543
Email:	lionel.gabrillo@stryker.com
Applicable Regulation:	FCC Part 15 Subpart C (15.247) ISED RSS-247 Issue 3
Date of Test:	January 6, 2024 to January 14, 2024

We attest to the accuracy of this report:



Gabriel Carreon
Project Engineer

Anderson Soungpanya
EMC Team Lead

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1.0 Summary of Tests

Test	Reference FCC	Reference Industry Canada	Result
RF Output Power	15.247(b)(3)	RSS-247, 5.4.d)	Complies
Transmitter Radiated Emissions	15.247(d), 15.209, 15.205	RSS-247, 5.5	Complies

*Class 2 Permissive change: Perform only Output Power, Radiated Spurious and Restricted band edge.

EUT receive date: November 19, 2024

EUT receive condition: The pre-production version of the EUT was received in good condition with no apparent damage. As declared by the Applicant, it is identical to the production units.

Test start date: January 6, 2025

Test completion date: January 14, 2025

The test results in this report pertain only to the item tested.

2.0 General Information

2.1 Product Description

Stryker Medical supplied the following description of the EUT:

A small, lightweight, wearable communication device powered by a removable, rechargeable Lithium-Ion battery. It is designed to simplify hospital communication and workflow and improve staff safety. A user can “wake up” and operate the device using only their voice, to stay connected even under restrictive PPE. They can make and receive calls and listen and respond to messages and alarm notifications. The badge contains a 1.2” color display with an array of microphones, a hands-free speaker and an audio receiver. A headset can also be used with the badge either through the USB-C port or Bluetooth connection.

For more information, refer to the following product specification, declared by the manufacturer.

Information about the 2.4 GHz radio is presented below:

Applicant	Stryker Medical
Model No.	B7000
FCC Identifier	Z7AB7000
IC Identifier	4919E-B7000
Type of transmission	Digital Transmission System (DTS)
Rated RF Output	802.11b: 19.99 dBm 802.11g: 18.67 dBm 802.11n20: 17.96 dBm 802.11ax20: 15.91 dBm
Antenna(s) & Gain	Internal Antenna, Gain: 2.76 dBi
Frequency Range	2412 – 2462 MHz
Type of modulation/data rate	802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz:up to 72.2Mbps 802.11 ax_20MHz:up to 143.4Mbps
Number of Channel(s)	11 for 802.11b/g/n/ax
Applicant Name & Address	Stryker Medical 3030 Orchard Parkway. San Jose, CA 95134 USA

2.2 Related Submittal(s) Grants

None.

2.3 Test Facility

The test site used to collect the radiated data is site 1 (3-m semi-anechoic chamber). This test facility and site measurement data have been fully placed on file with the FCC, IC and A2LA accredited.

2.4 Test Methodology

Antenna conducted measurements were performed according to the FCC documents "Guidance for Performing Compliance Measurement on Digital Transmission Systems (DTS) Operating under §15.247" (KDB 558074 D01 DTS Meas Guidance v05r02), and RSS-247 Issue 3, RSS-GEN Issue 5.

Radiated emissions and AC mains conducted emissions measurements were performed according to the procedures in ANSI C63.10: 2013. Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Data Sheet" of this report.

2.5 Measurement Uncertainty

Compliance with the limits was based on the results of the measurements and doesn't take into account the measurement uncertainty.

Estimated Measurement Uncertainty

Measurement	Expanded Uncertainty (k=2)		
	0.15 MHz – 1 GHz	1 GHz – 2.5 GHz	> 2.5 GHz
RF Power and Power Density – antenna conducted	-	0.7 dB	-
Unwanted emissions – antenna conducted	1.1 dB	1.3 dB	1.9 dB
Bandwidth – antenna conducted	-	30 Hz	-

Measurement	Expanded Uncertainty (k=2)			
	0.15 MHz – 30MHz	30 – 200 MHz	200 MHz – 1 GHz	1 GHz – 18 GHz
Radiated emissions	-	4.7	4.6	5.1 dB
AC mains conducted emissions	2.1 dB	-	-	-

3.0 System Test Configuration

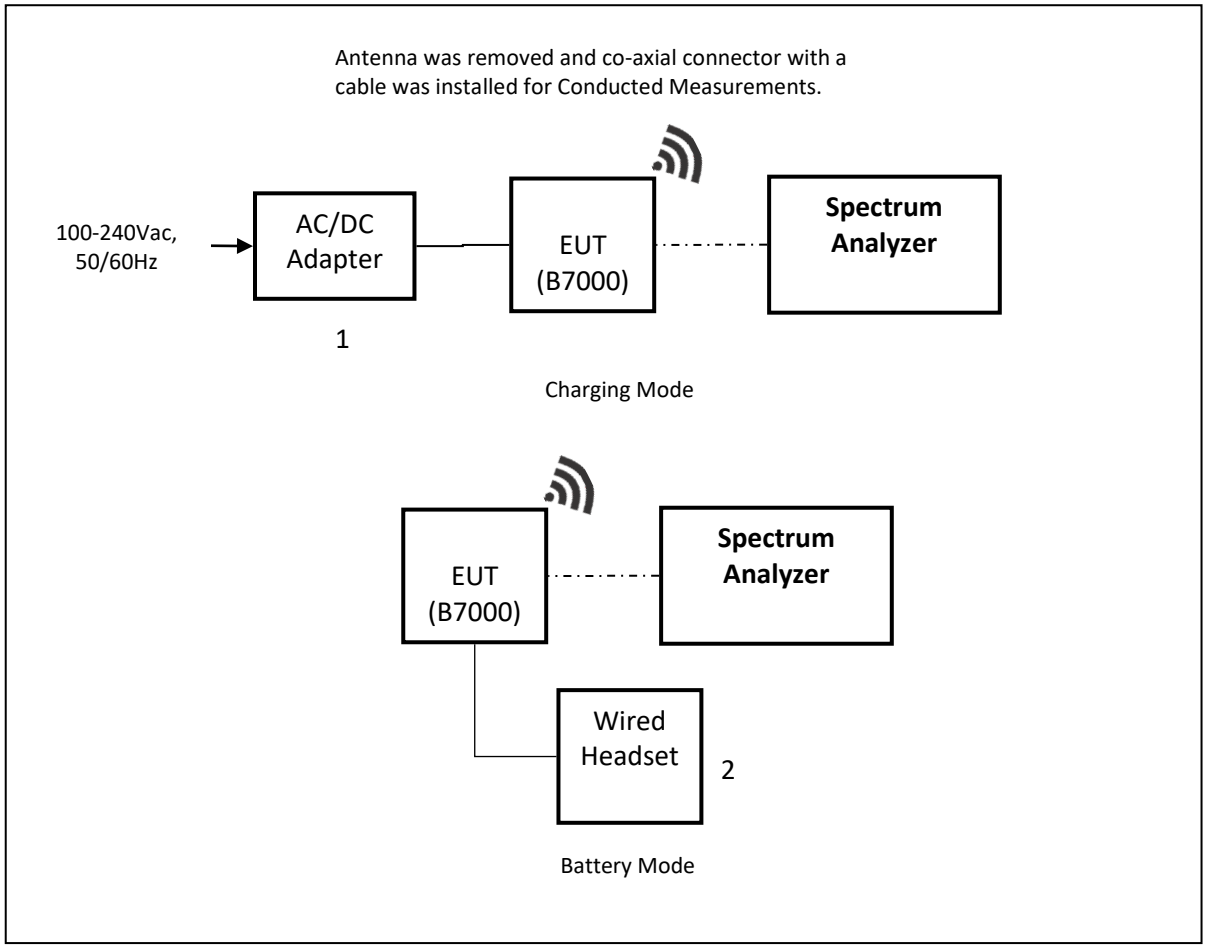
3.1 Support Equipment

Support Equipment				
ID	**Description**	**Manufacturer**	**Model Number**	**Serial Number**
1	AC/DC Adapter	Vocera	WB-10E05R	D1713N55000033
2	Wired Headset	Stryker Medical	230-02162	N/A

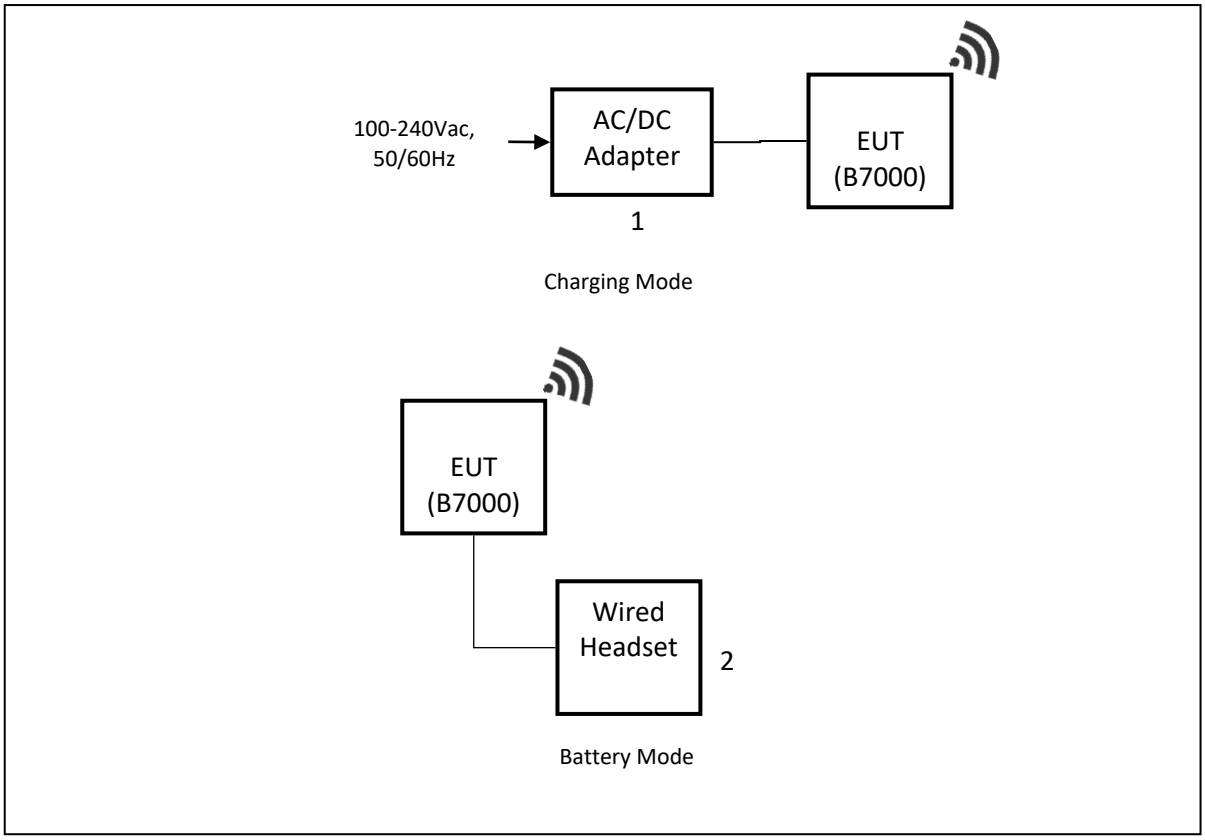
3.2 Block Diagram of Test Setup

Equipment Under Test			
Description	**Manufacturer**	**Model**	**Serial Number**
Communication Badge (Conducted Sample)	Stryker Medical	B7000	MA3304M78005EA
Communication Badge (Radiated Sample)	Stryker Medical	B7000	MA3304M78006FD

Conducted Measurements SETUP



Radiated Measurements SETUP



EUT Photo

3.3 Justification

For radiated emission measurements the EUT is placed on a non-conductive table. The EUT was configured to continuously transmit.

For Radiated Spurious testing 9kHz – 40GHz, the Output power was set to the Middle Channel's power for testing at Low Middle and High Channels, which is the worst-case power setting.

3.4 Software Exercise Program

The EUT exercise program used during radiated and conducted testing was provided by Stryker Medical.

3.5 Mode of Operation during Test

Mode of operation during the tests was setup using a laptop which allows controlling the radio by test software. During the transmitter tests, the transmitter was setup to transmit maximum communication and RF power levels.

EUT was placed into transmit mode at the lowest (2402MHz) middle (2440MHz), and highest (2480MHz) channels.

3.6 Modifications Required for Compliance

No modifications were made by the manufacturer or Intertek to the EUT in order to bring the EUT into compliance.

3.7 Additions, Deviations and Exclusions from Standards

No additions, deviations or exclusions from the standard were made.

4.0 Measurement Results

4.1 Maximum Peak Conducted Output Power at Antenna Terminals
FCC Rule: 15.247(b)(3); RSS-247, 5.4.d);

4.1.1 Requirement

For antennas with gains of 6 dBi or less, maximum allowed transmitter output is 1 watt or 30 dBm.
For antennas with gains greater than 6 dBi, transmitter output level must be decreased appropriately, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

4.1.2 Procedure

The antenna port of the EUT was connected to the input of a spectrum analyzer to measure the Maximum Conducted Transmitter Output Power. The offset programmed on the analyzer is corrected to include cable loss, attenuator and duty cycle correction.

The procedure described in FCC Publication KDB 558074 D01 Meas Guidance v05r02 was used. Specifically, section 11.9.2.2.2 Method AVGSA-1 in ANSI 63.10.

The procedure for this method is as follows:

1. Set span to at least 1.5 times the OBW.
2. Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
3. Set VBW ≥ [3 x RBW].
4. Number of points in sweep ≥ [2 x span / RBW]. (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.
5. Sweep time = auto.
6. Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
7. If transmit duty cycle < 98%, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at the maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle ≥ 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run.”
8. Trace average at least 100 traces in power averaging (rms) mode.
9. Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

4.1.3 Test Result

Standard	Data Rate	Channel	Frequency MHz	Conducted Average Power dBm	Limit dBm
802.11b, 20MHz	1 Mbps	1	2412	16.13	30.00
		3	2422	18.87	30.00
		6	2437	18.69	30.00
		9	2452	18.71	30.00
		11	2462	15.83	30.00
802.11g, 20MHz	6 Mbps	1	2412	14.06	30.00
		3	2422	15.12	30.00
		4	2427	15.78	30.00
		5	2432	15.78	30.00
		6	2437	17.65	30.00
		7	2442	16.69	30.00
		8	2447	15.77	30.00
		9	2452	14.82	30.00
		11	2462	14.19	30.00
802.11n, 20MHz	MCS0	1	2412	13.66	30.00
		3	2422	14.88	30.00
		4	2427	15.60	30.00
		5	2432	15.56	30.00
		6	2437	16.41	30.00
		7	2442	16.54	30.00
		8	2447	15.61	30.00
		9	2452	14.96	30.00
		11	2462	12.33	30.00
802.11ax, 20MHz	MCS0	1	2412	11.56	30.00
		3	2422	15.29	30.00
		6	2437	15.21	30.00
		9	2452	15.12	30.00
		11	2462	11.40	30.00

Tested By	Test Date	Results
Gabriel Carreon	January 7-9, 2025	Complies

Results	Complies

4.2 Transmitter Radiated Emissions
FCC Rules: 15.247(d), 15.209, 15.205; RSS-247, 5.5;

4.2.1 Requirement

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)).

For out of band radiated emissions (except for frequencies in restricted bands), in any 100 kHz bandwidths outside the EUT pass-band, the RF power shall be at least 20dB (peak) or 30 dB (average) below that of the maximum in-band 100 kHz emissions.

4.2.2 Procedure

Radiated emission measurements were performed from 9 kHz to 26.5 GHz according to the procedure described in ANSI C63.10: 2013. Spectrum Analyzer Resolution Bandwidth is 200Hz or greater for frequencies 9kHz to 30MHz, 100 kHz or greater for frequencies 30 MHz to 1000 MHz, 1 MHz for frequencies above 1000 MHz. Above 1000 MHz Peak and Average measurements were performed.

The EUT is placed on a plastic turntable that is 80 cm in height for below 1000MHz and 1.5m in height for above 1GHz. If the EUT attaches to peripherals, they are connected and operational (as typical as possible). During testing, all cables were manipulated to produce worst-case emissions. The signal is maximized through rotation. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters.

Radiated emissions are taken at 3 meters for frequencies above 1 GHz and below 1 GHz.

Measurements made from 1 GHz to 18GHz had a 2.4-2.5GHz notch filter in place. A preamp was used from 9kHz to 26.5GHz.

All measurements were made with a Peak Detector and compared to QP limits for 30MHz – 1GHz and Average limits for 1GHz – 26.5GHz.

Radiated measurements were performed on the X, Y and Z orientation of the EUT. Data is presented with the worst-case configuration (the configuration which resulted in the highest emission levels).

4.2.3 Field Strength Calculation

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CF – AG; if measurement is performed at a distance other than specified in the rule, a Distance Correction Factor (DCF) shall be added.

Where FS = Field Strength in dB(μV/m)
RA = Receiver Amplitude (including preamplifier) in dB(μV); AF = Antenna Factor in dB(1/m)
CF = Cable Attenuation Factor in dB; AG = Amplifier Gain in dB

Assume a receiver reading of 52.0 dB(μV) is obtained. The antennas factor of 7.4 dB(1/m) and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving field strength of 32 dB(μV/m). This value in dB(μV/m) was converted to its corresponding level in μV/m.
RA = 52.0 dB(μV)
AF = 7.4 dB(1/m)
CF = 1.6 dB
AG = 29.0 dB
FS = 52.0+7.4+1.6-29.0 = 32 dB(μV/m).
Level in μV/m = Common Antilogarithm [(32 dBμV/m)/20] = 39.8 μV/m.

4.2.4 Test Results

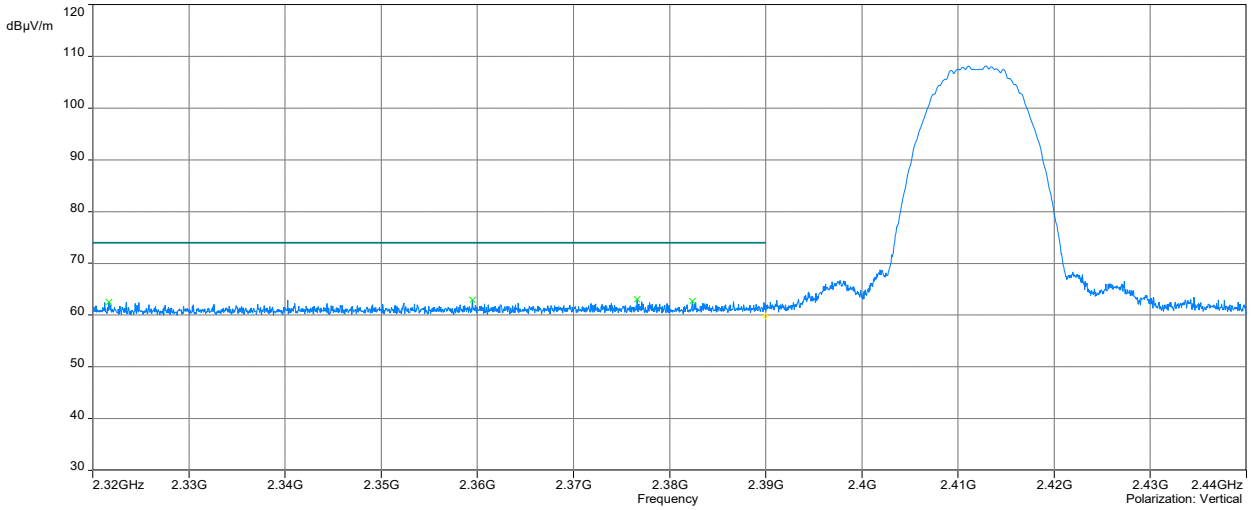
All testing in this section were performed by radiated measurements.

Tested By	Test Date	Results
Gabriel Carreon	January 6 - 14, 2025	Complies

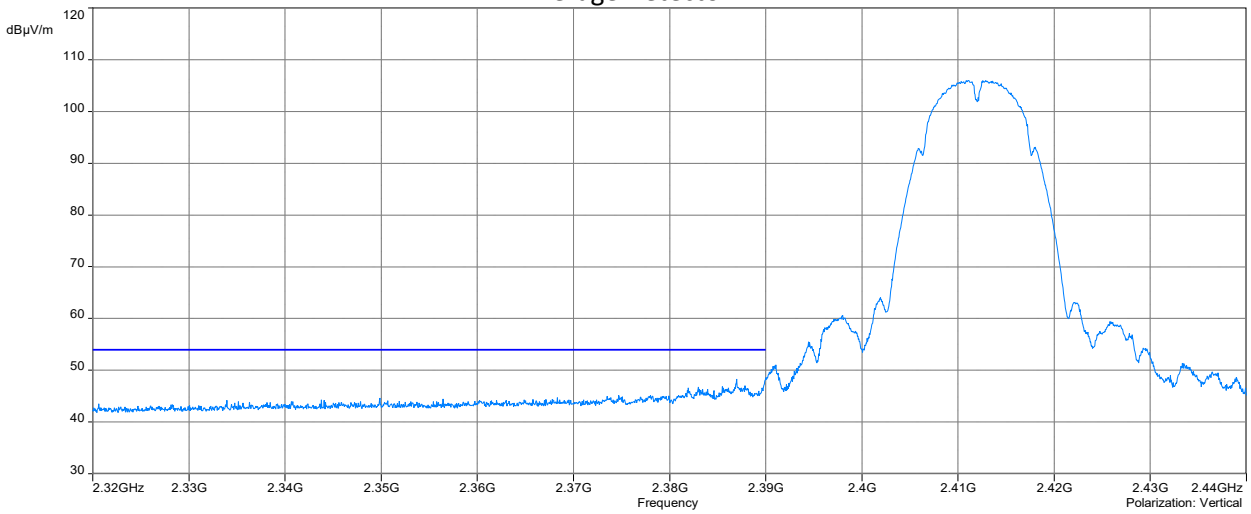
Test Results: 15.209/15.205 Radiated Restricted Band Emissions

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11b, 2412 MHz, Charging Mode

Peak Detector



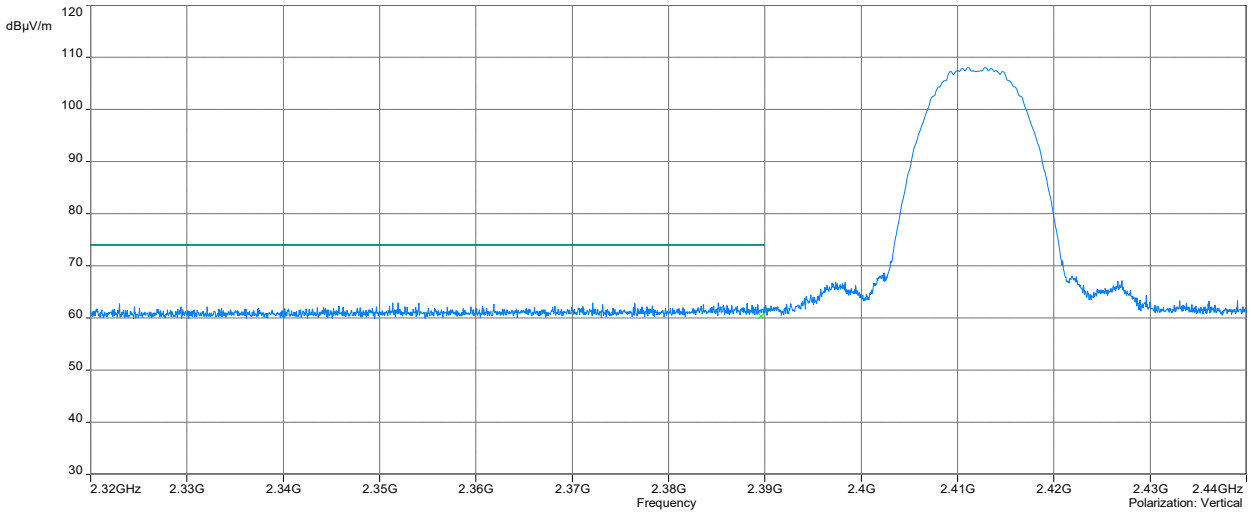
Average Detector



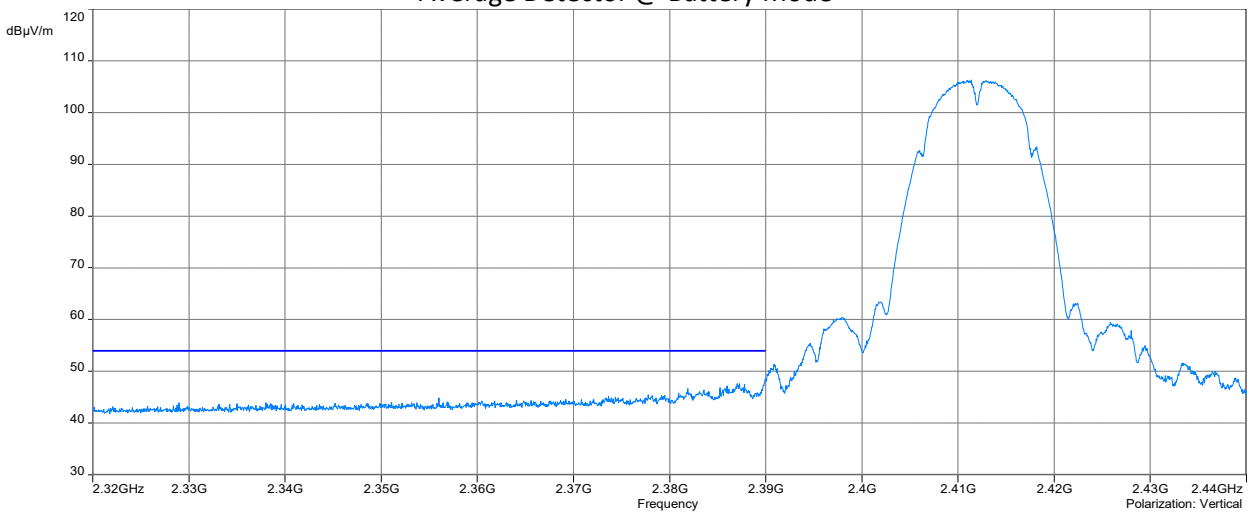
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2390.000	Peak	59.76	74	-14.24	30.20
2390.000	Average	47.90	54	-6.10	30.20

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11b, 2412 MHz, Battery Mode

Peak Detector



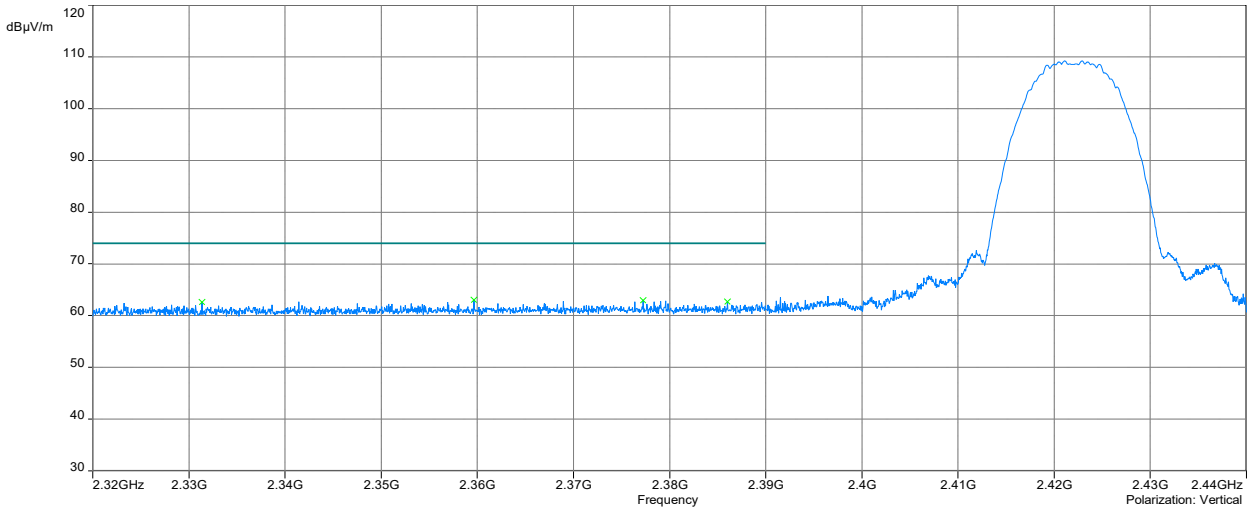
Average Detector @ Battery Mode



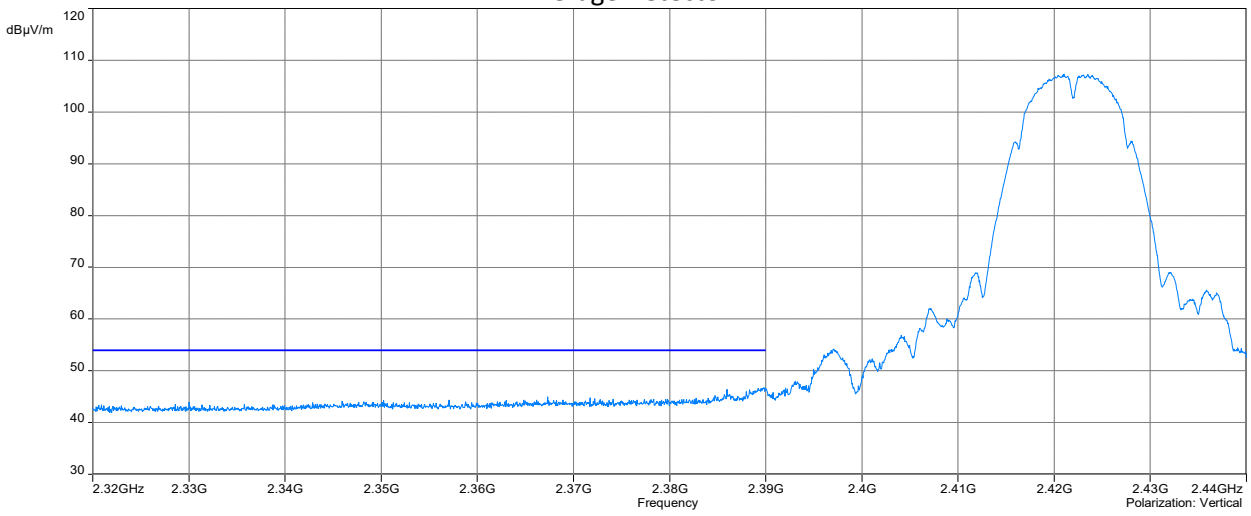
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2390.000	Peak	60.30	74	-13.70	30.20
2390.000	Average	48.18	54	-5.82	30.20

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11b, 2422 MHz, Charging Mode

Peak Detector



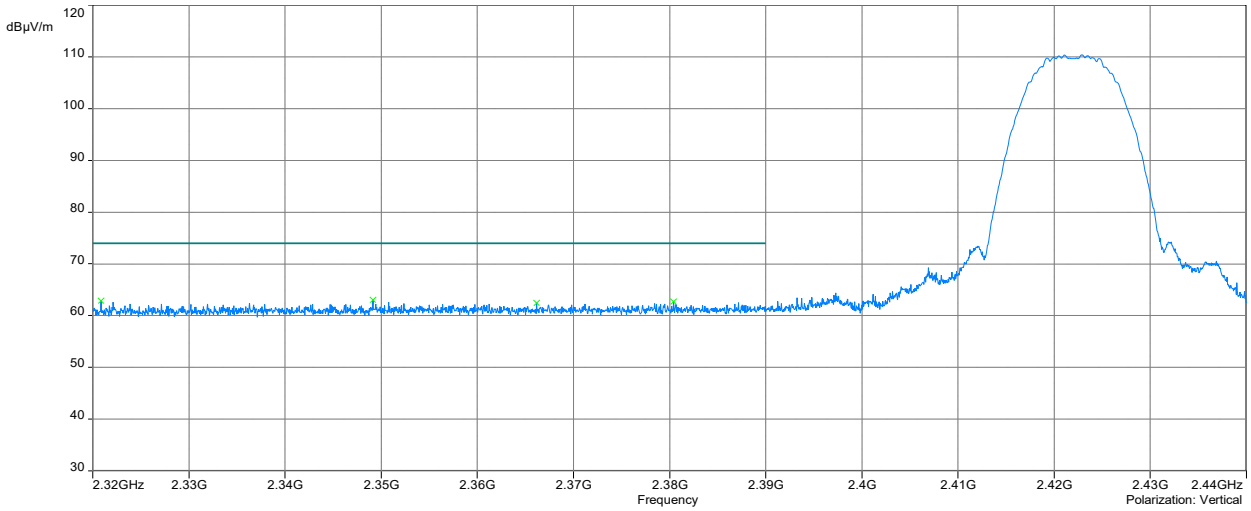
Average Detector



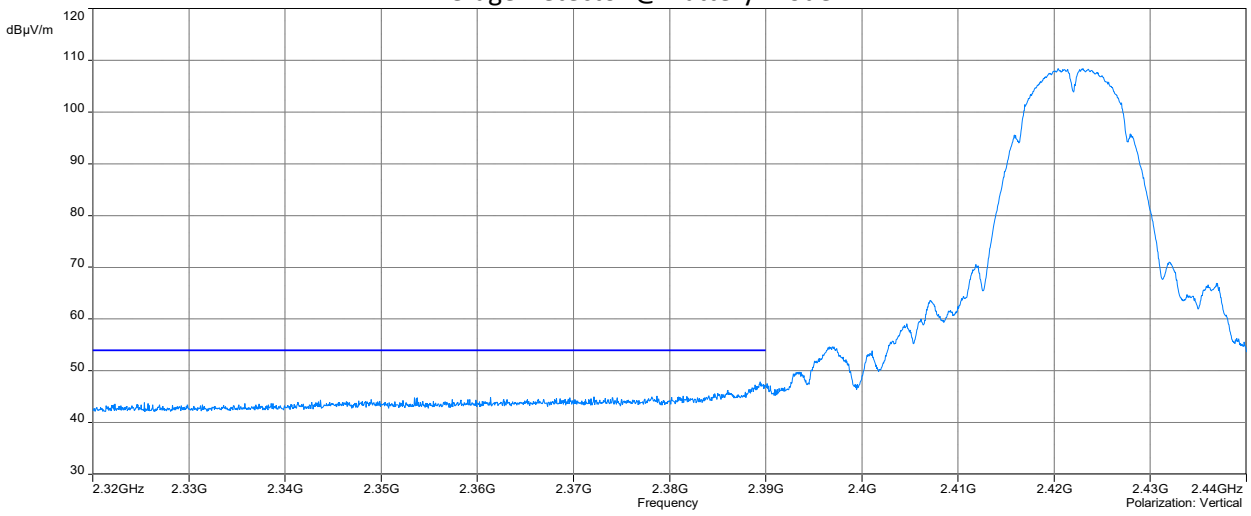
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2390.000	Peak	61.23	74	-12.77	30.20
2390.000	Average	45.74	54	-8.26	30.20

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11b, 2422 MHz, Battery Mode

Peak Detector



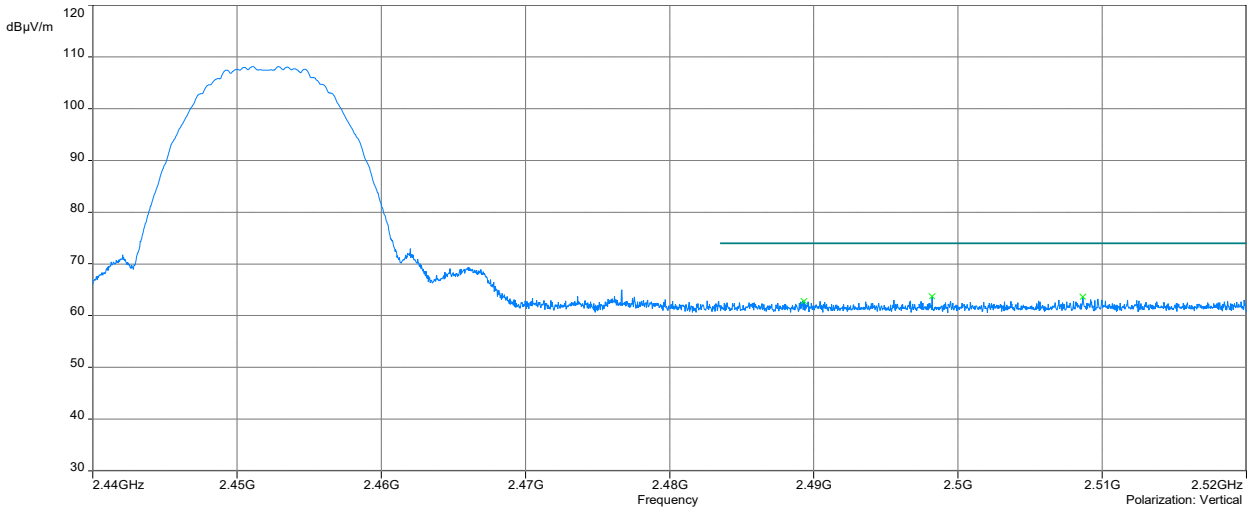
Average Detector @ Battery Mode



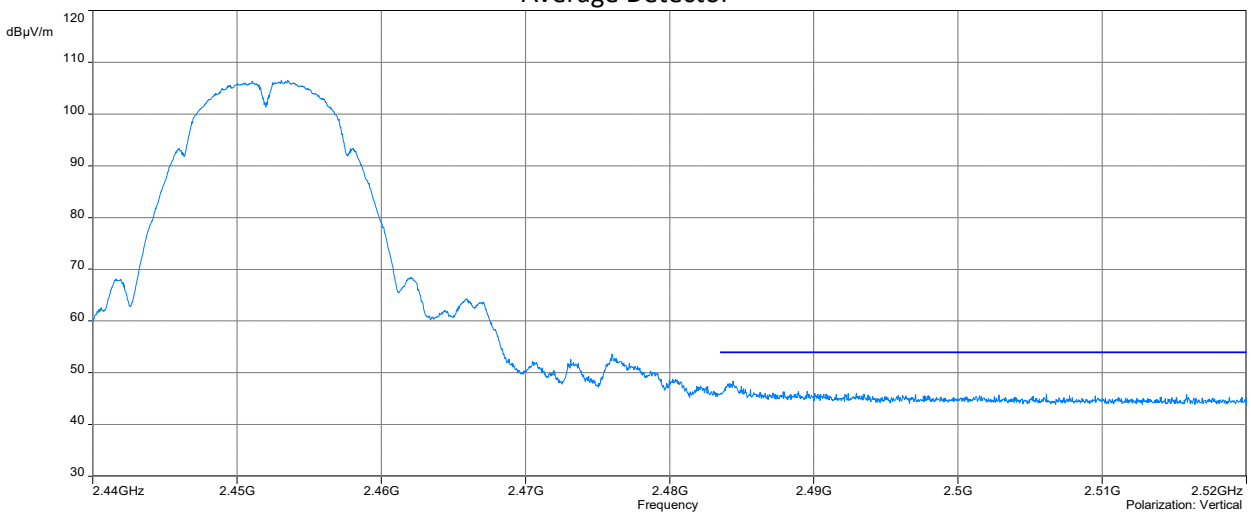
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2390.000	Peak	60.34	74	-13.66	30.20
2390.000	Average	46.19	54	-7.84	30.20

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11b, 2452 MHz, Charging Mode

Peak Detector



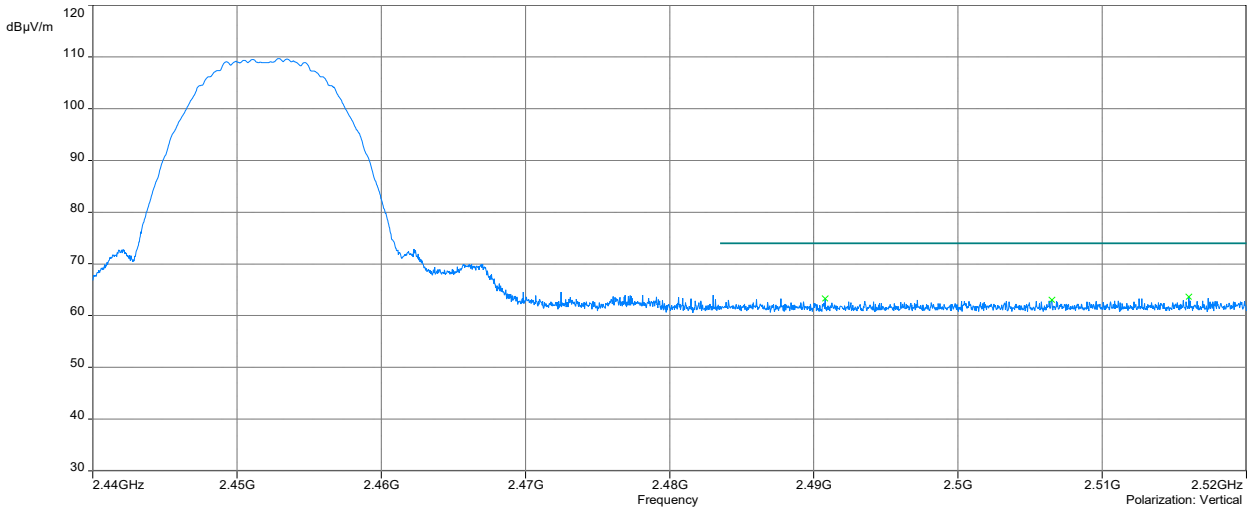
Average Detector



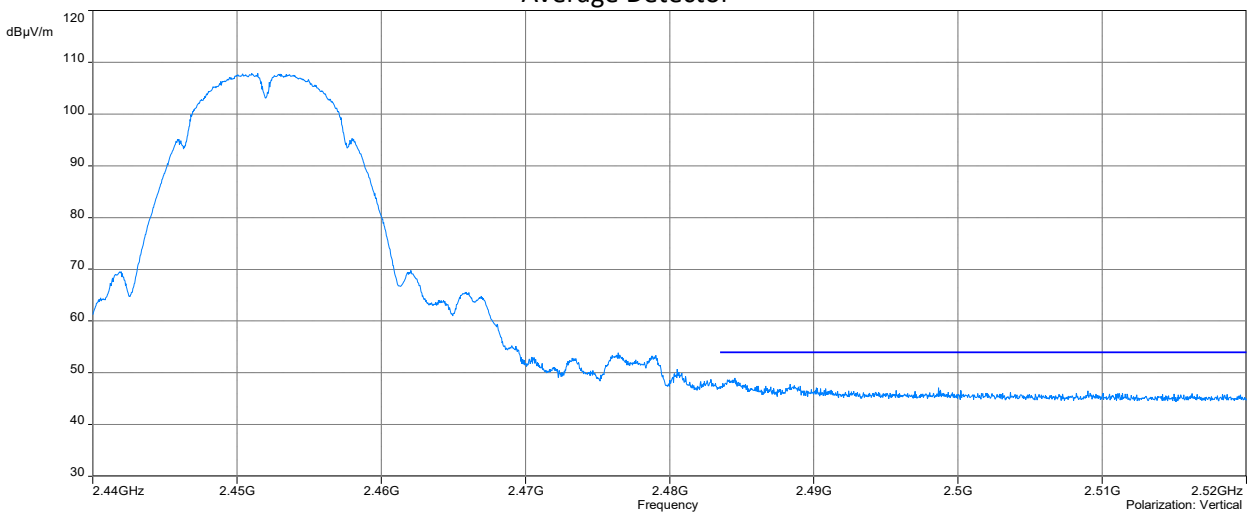
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2483.500	Peak	59.51	74	-14.49	30.22
2483.500	Average	44.71	54	-9.29	30.22

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11b, 2452 MHz, Battery Mode

Peak Detector



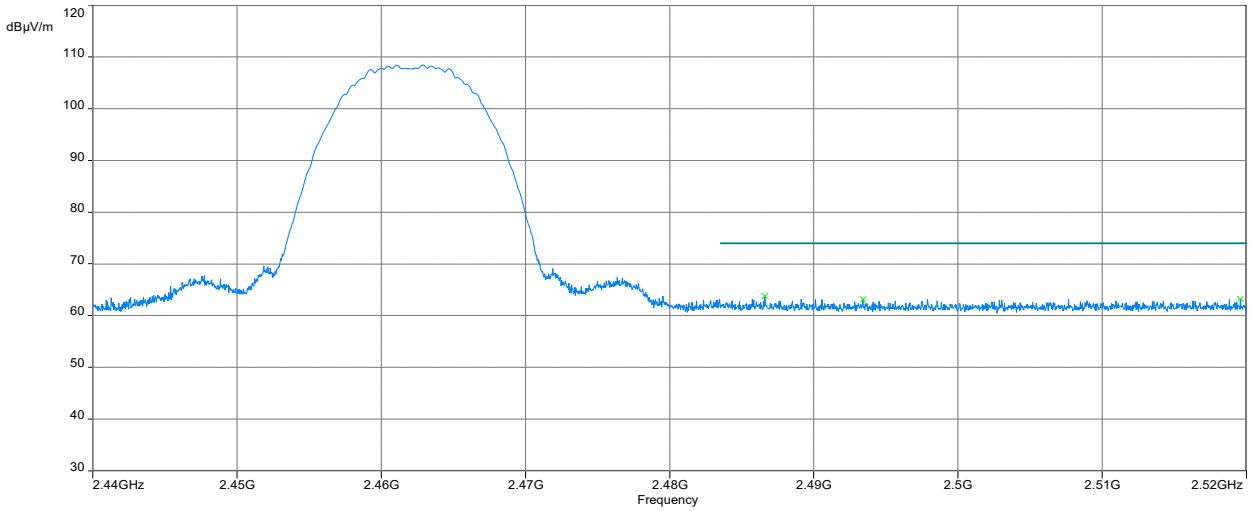
Average Detector



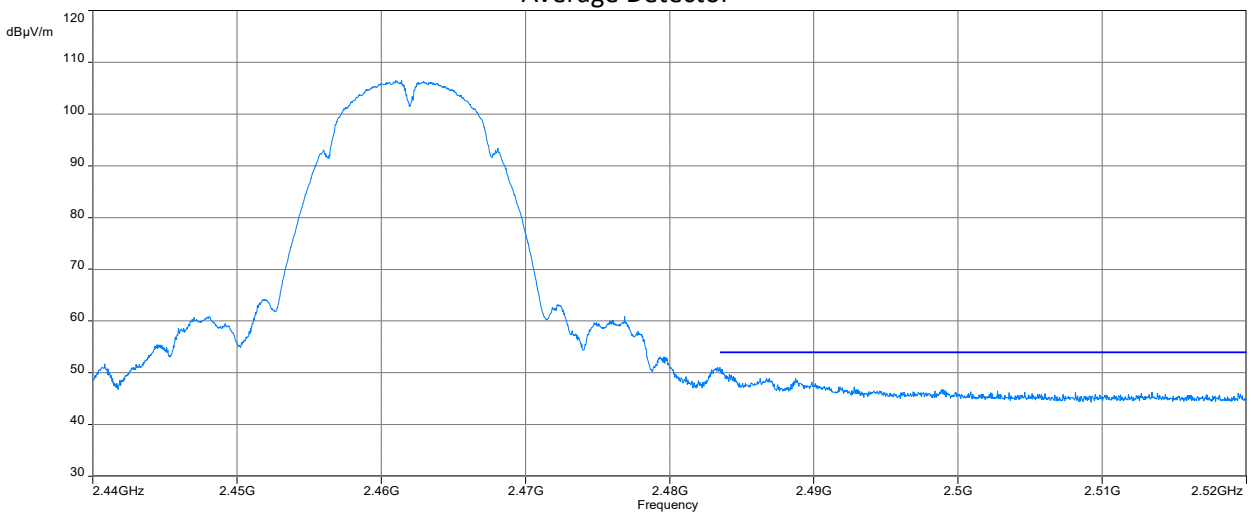
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2483.500	Peak	60.30	74	-13.70	30.22
2483.500	Average	46.05	54	-7.95	30.22

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11b, 2462 MHz, Charging Mode

Peak Detector



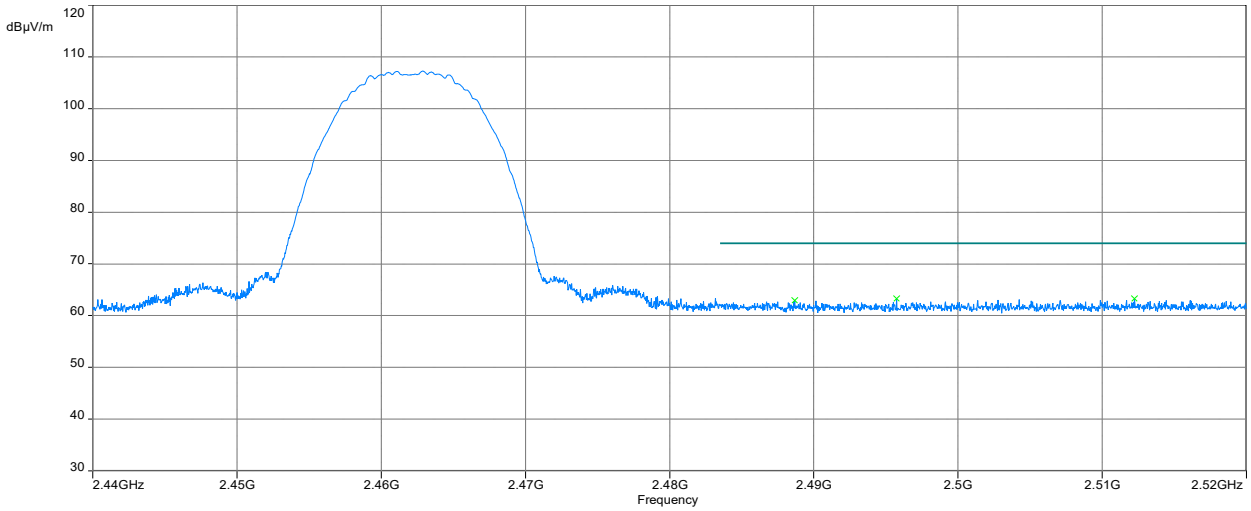
Average Detector



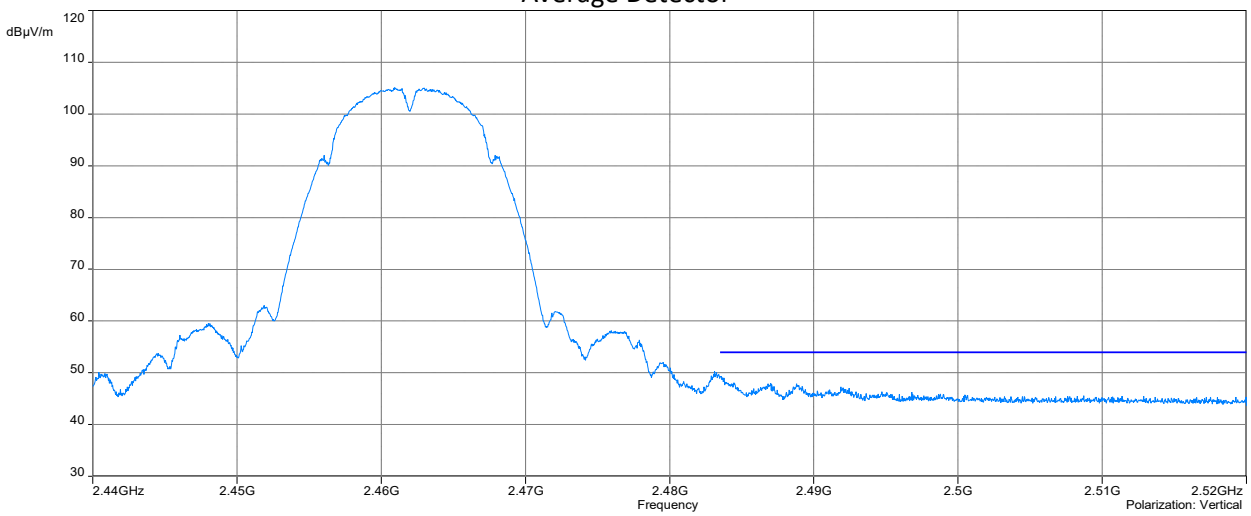
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2483.500	Peak	63.12	74	-13.63	30.22
2483.500	Average	49.35	54	-4.65	30.22

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11b, 2462 MHz, Battery Mode

Peak Detector



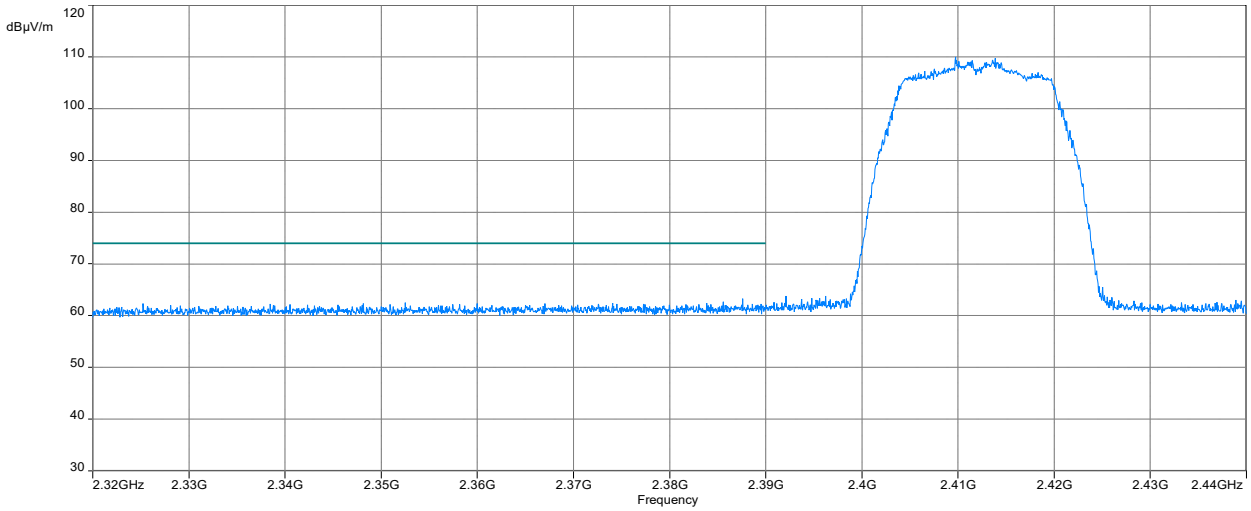
Average Detector



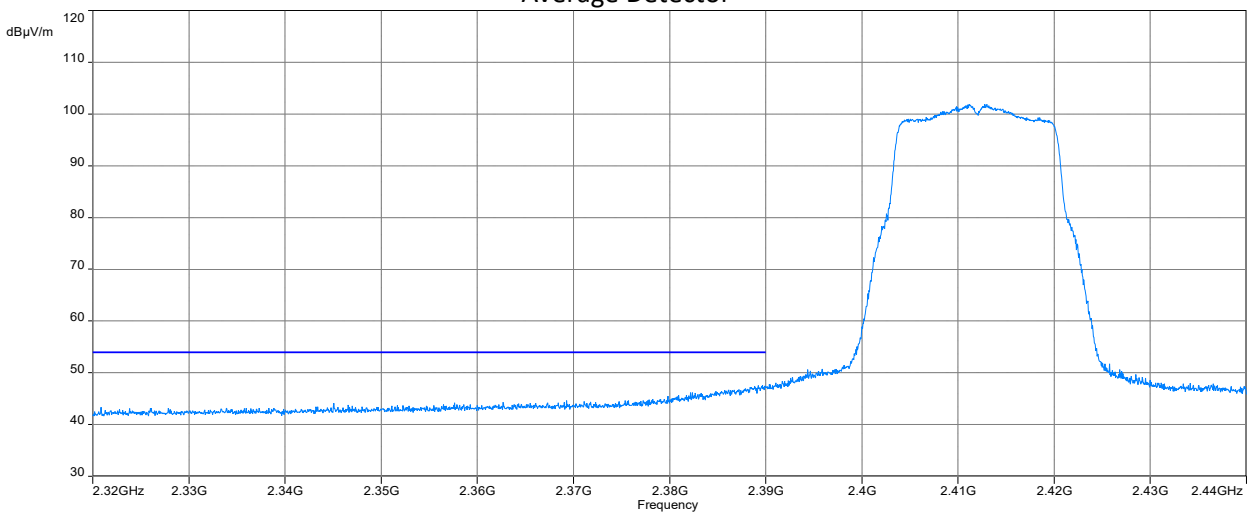
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2483.500	Peak	61.26	74	-12.74	30.22
2483.500	Average	49.05	54	-4.95	30.22

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11g, 2412 MHz, Charging Mode

Peak Detector



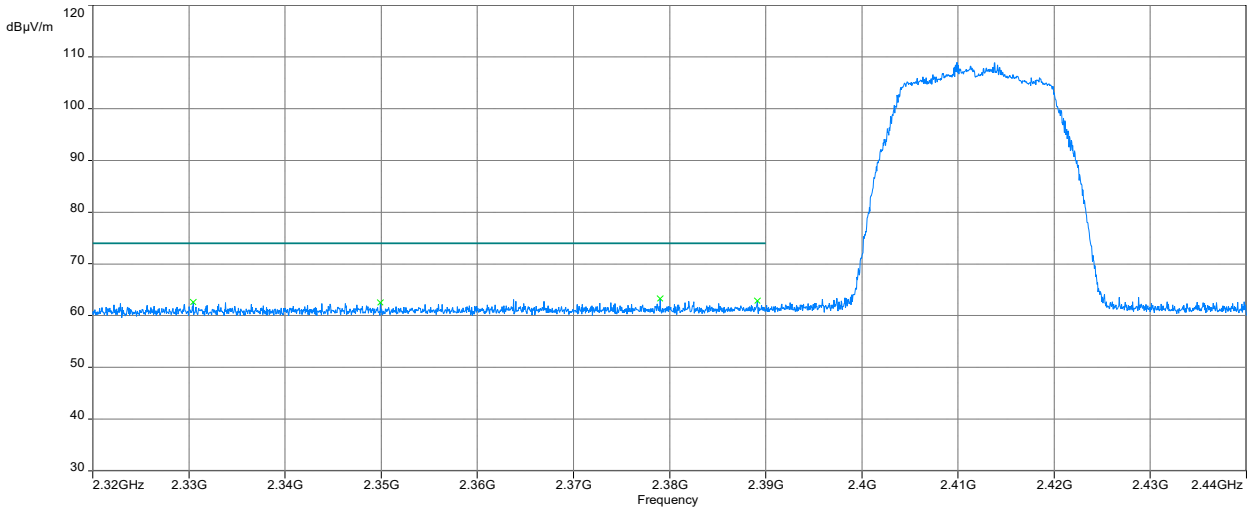
Average Detector



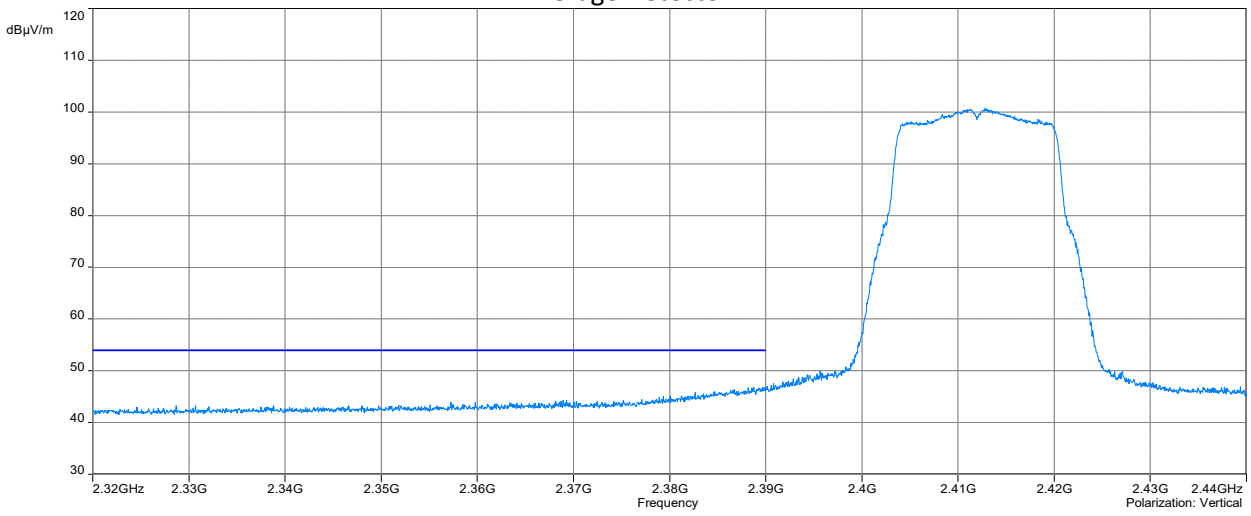
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2390.000	Peak	59.64	74	-14.36	30.20
2390.000	Average	46.27	54	-7.73	30.20

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11g, 2412 MHz, Battery Mode

Peak Detector



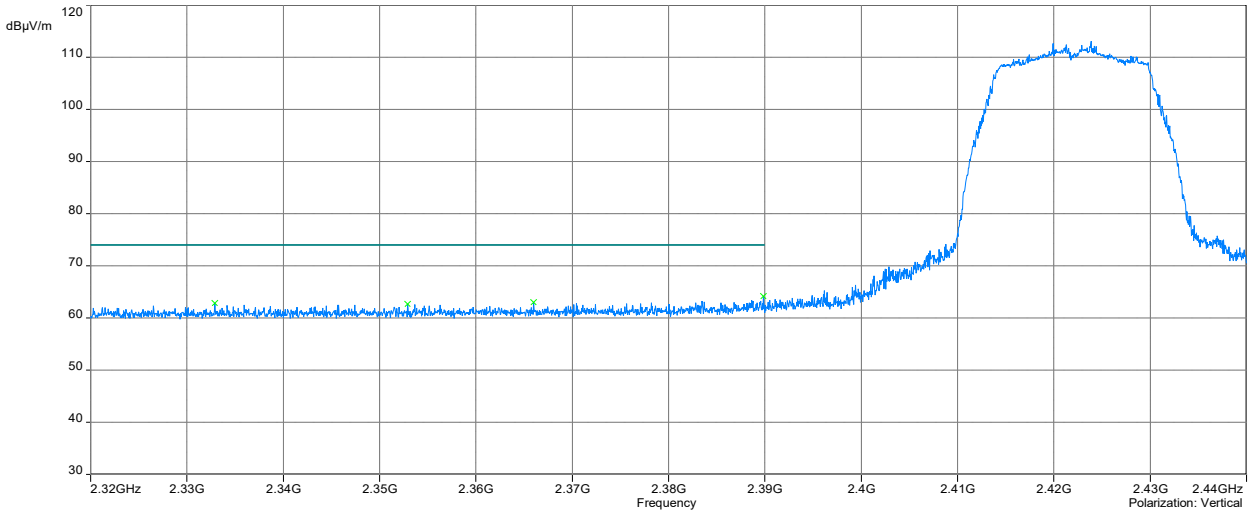
Average Detector



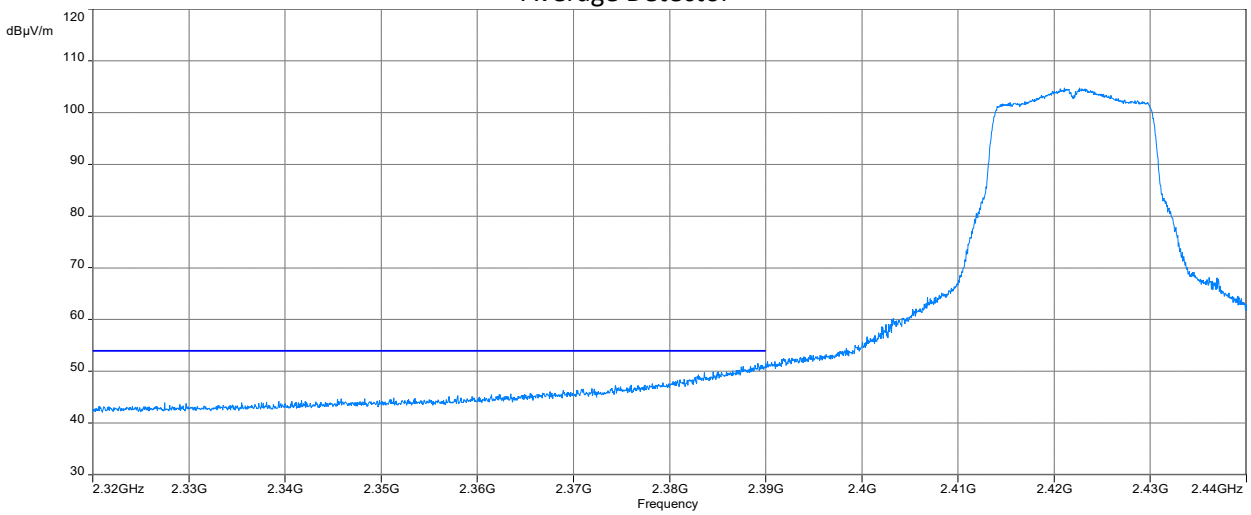
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2390.000	Peak	60.11	74	-13.89	30.20
2390.000	Average	45.36	54	-8.64	30.20

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11g, 2422 MHz, Charging Mode

Peak Detector



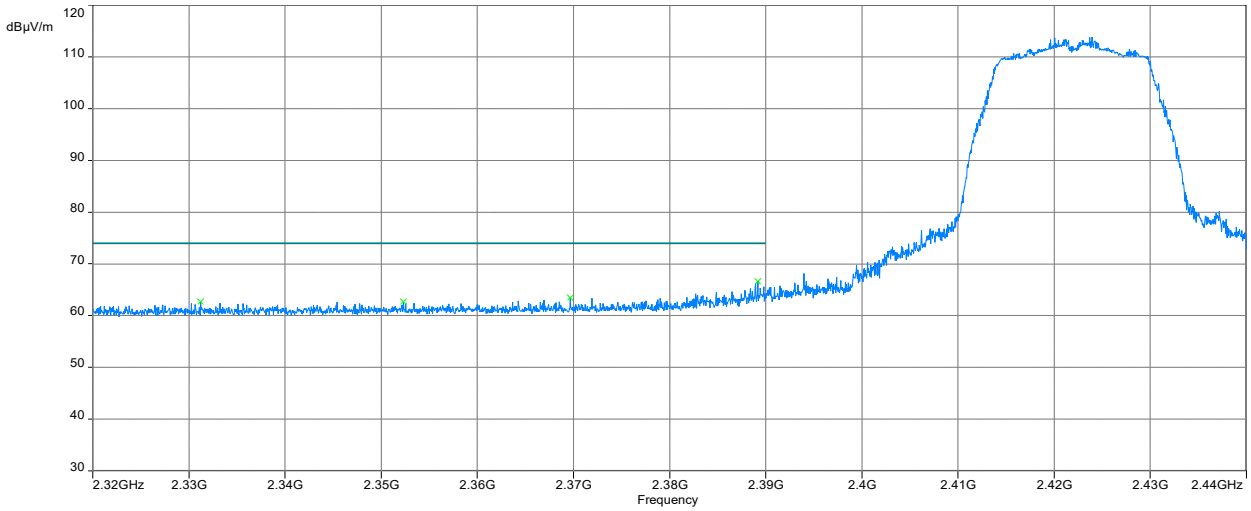
Average Detector



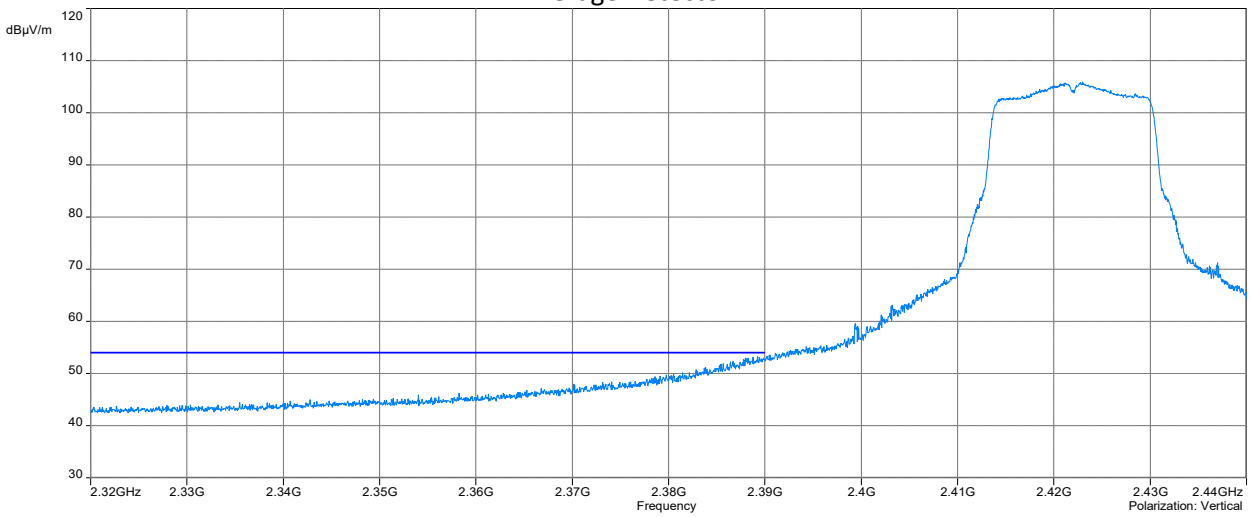
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2390.000	Peak	64.14	74	-9.86	30.20
2390.000	Average	49.85	54	-4.15	30.20

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11g, 2422 MHz, Battery Mode

Peak Detector



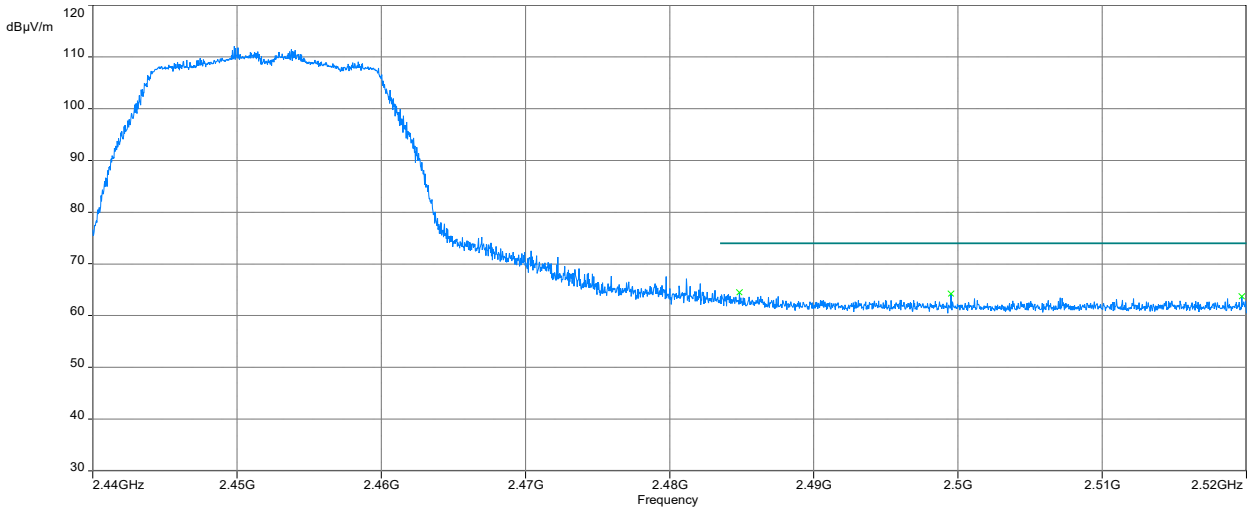
Average Detector



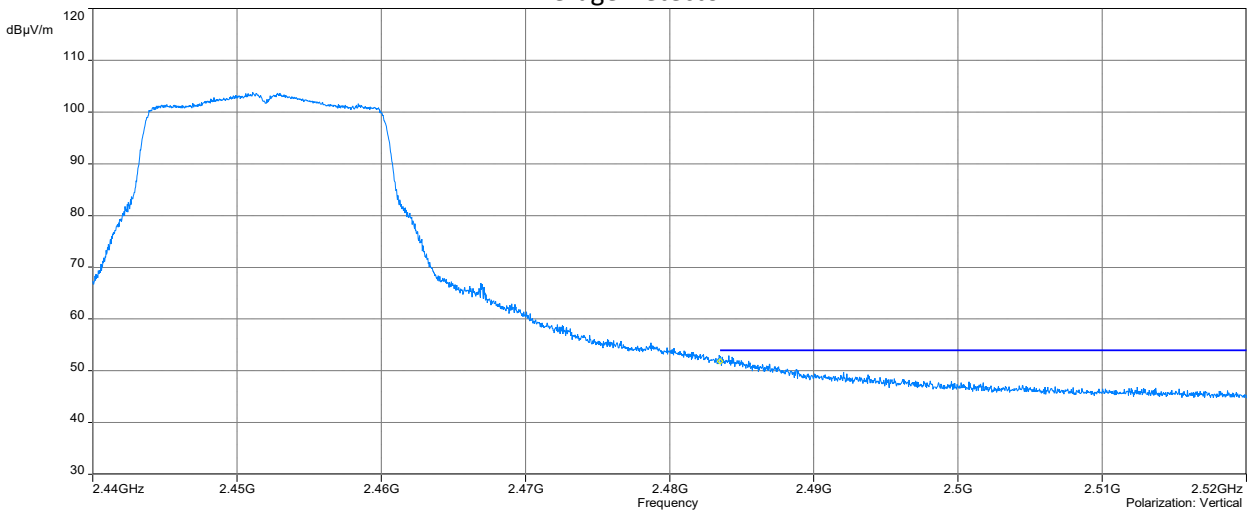
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2390.000	Peak	62.07	74	-11.93	30.20
2390.000	Average	51.22	54	-2.78	30.20

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11g, 2452 MHz, Charging Mode

Peak Detector



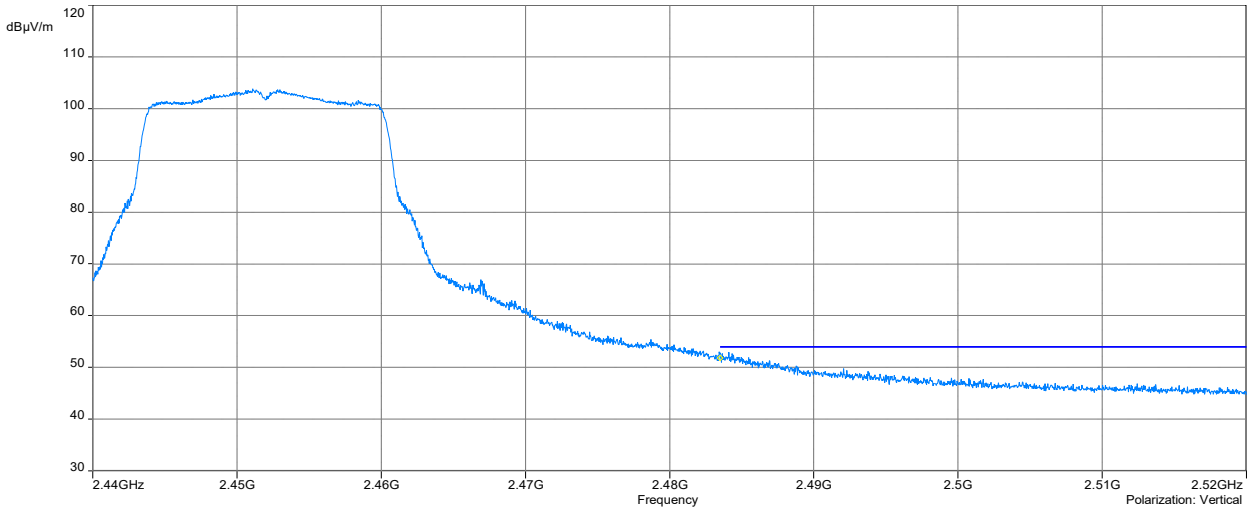
Average Detector



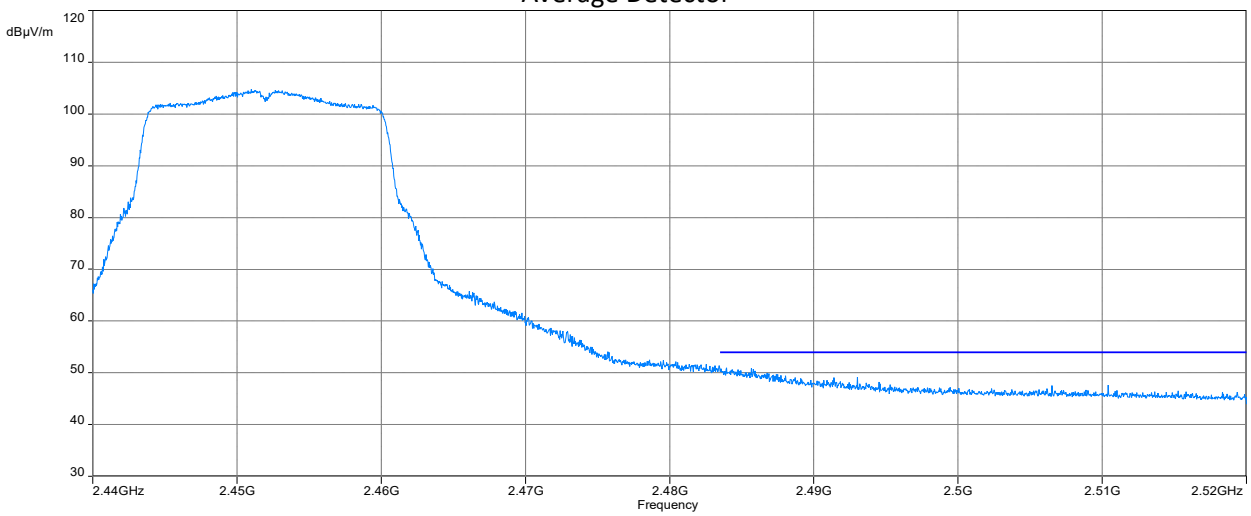
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2483.500	Peak	61.51	74	-9.48	30.22
2483.500	Average	51.81	54	-2.19	30.22

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11g, 2452 MHz, Battery Mode

Peak Detector



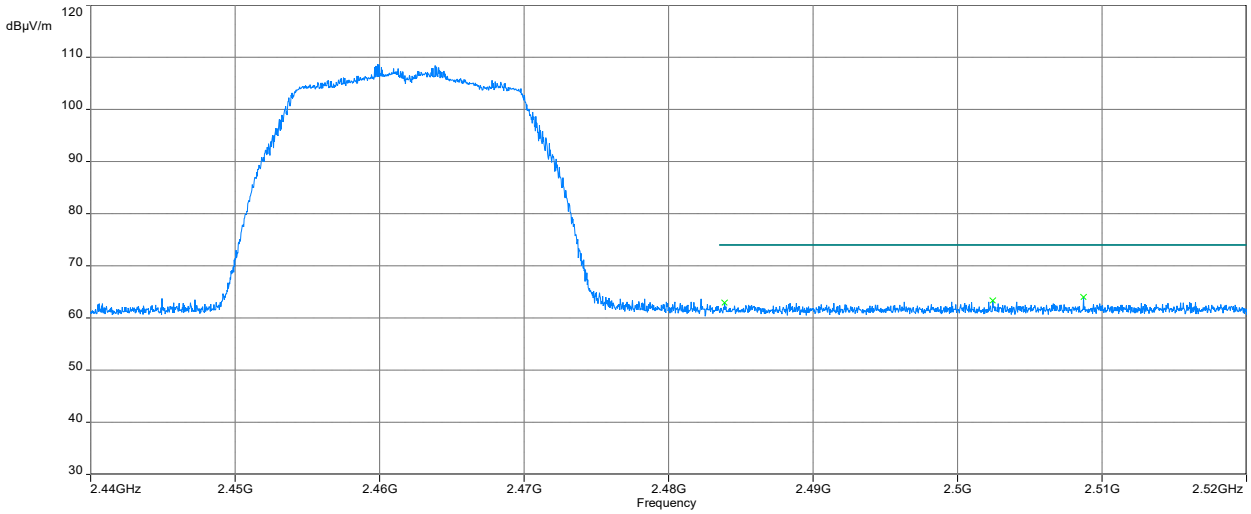
Average Detector



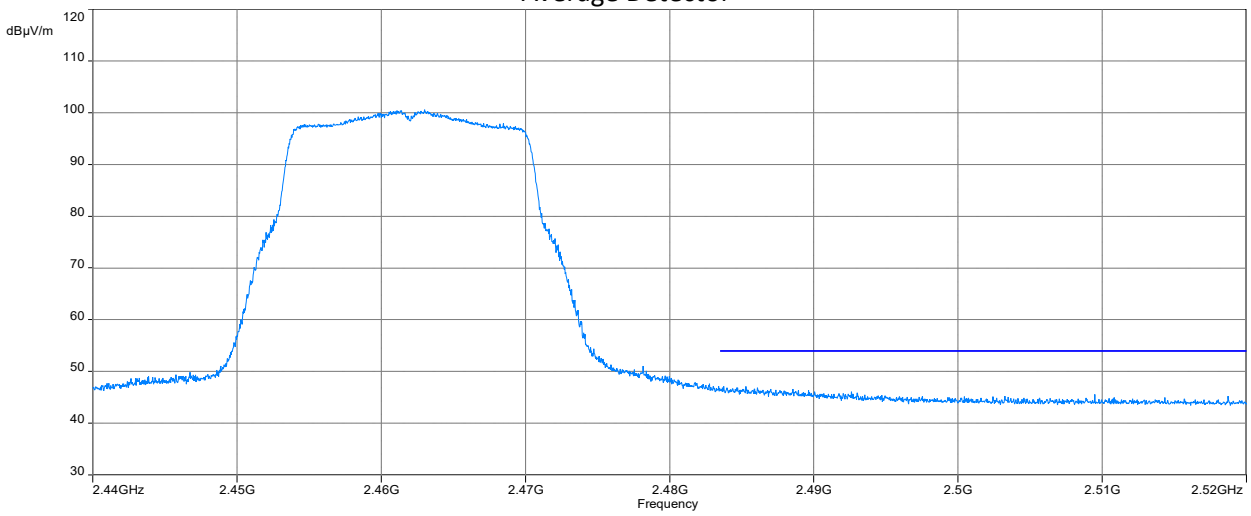
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2483.500	Peak	64.19	74	-9.81	30.22
2483.500	Average	50.25	54	-3.75	30.22

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11g, 2462 MHz, Charging Mode

Peak Detector



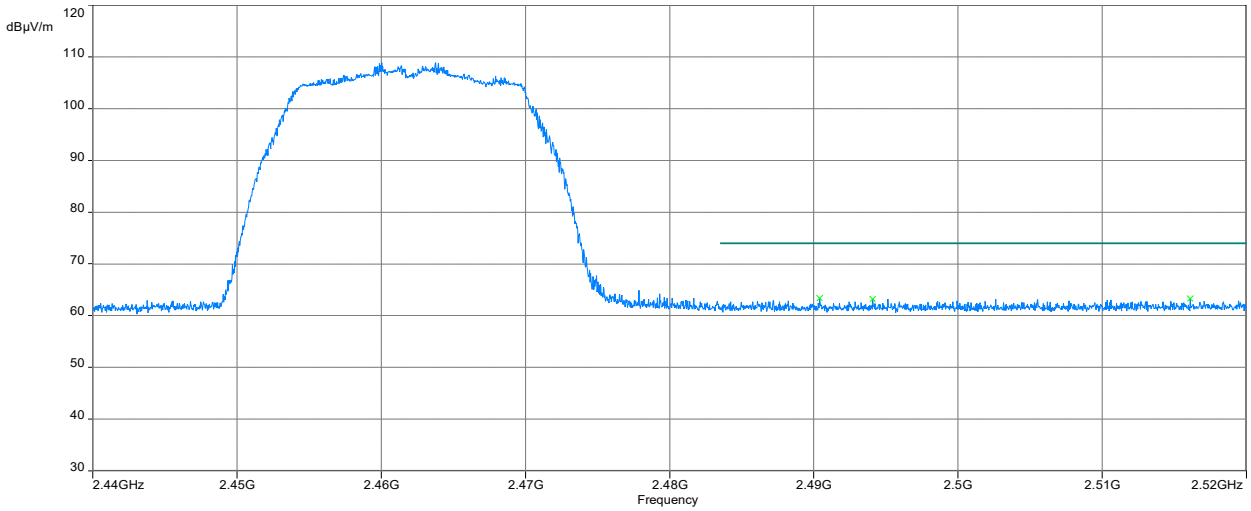
Average Detector



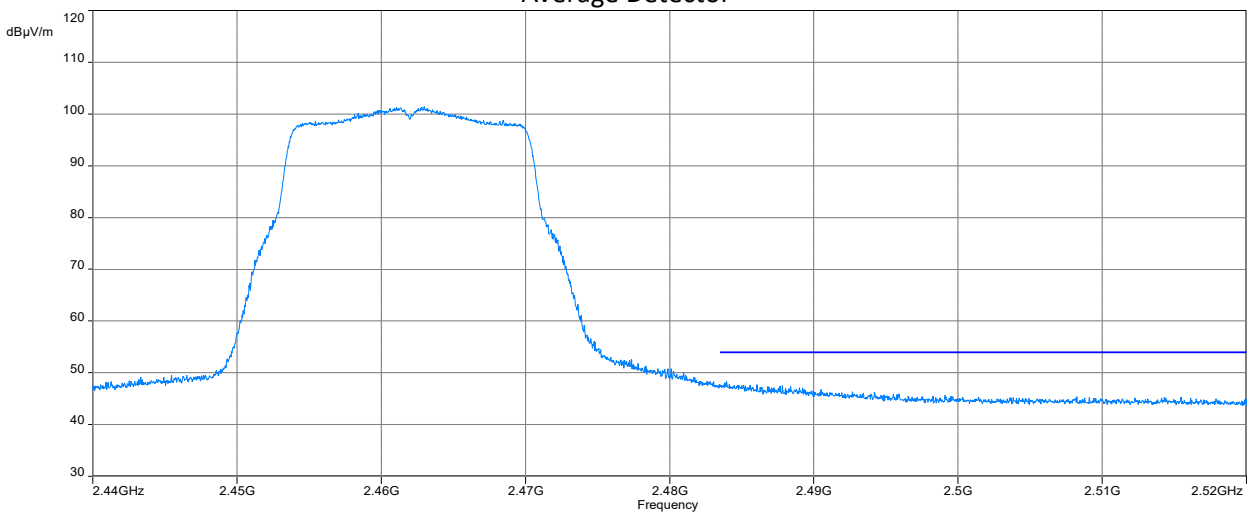
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2483.500	Peak	61.04	74	-12.96	30.22
2483.500	Average	46.27	54	-7.73	30.22

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11g, 2462 MHz, Battery Mode

Peak Detector



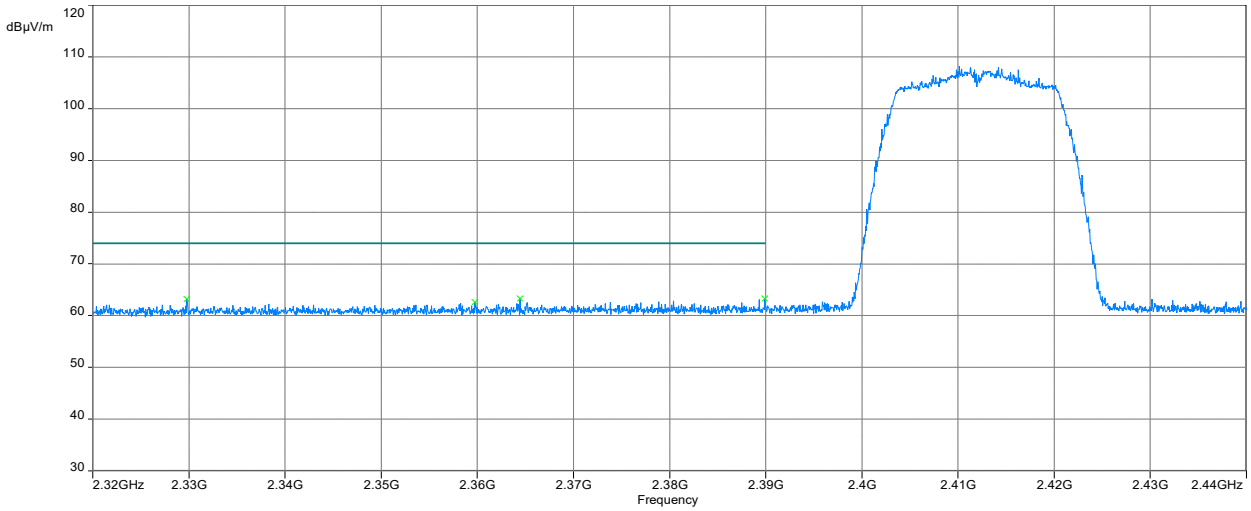
Average Detector



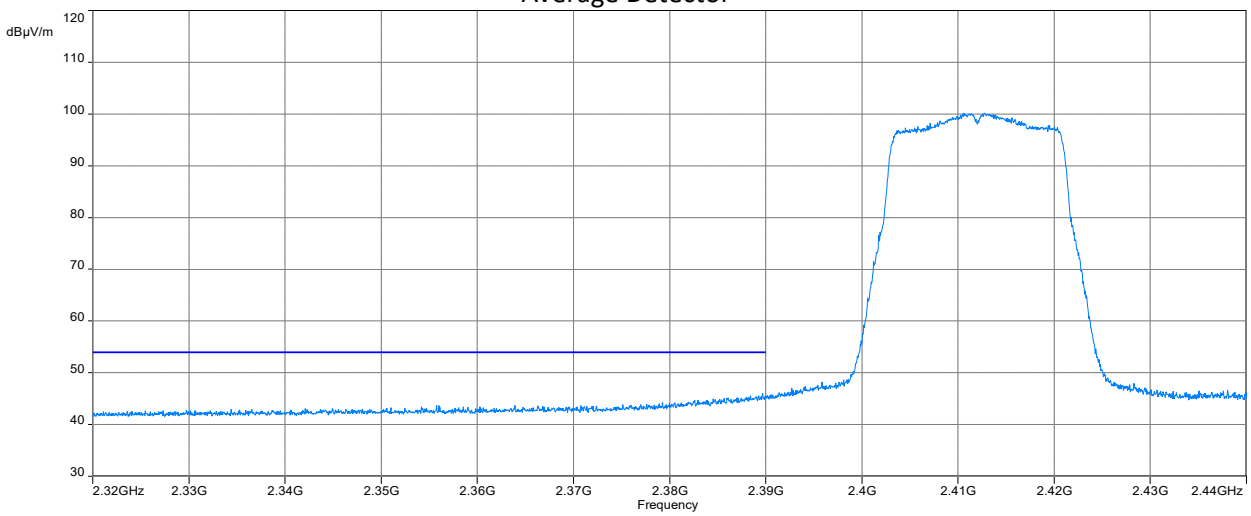
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2483.500	Peak	61.19	74	-12.81	30.22
2483.500	Average	46.75	54	-7.25	30.22

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11n20, 2412 MHz, Charging Mode

Peak Detector



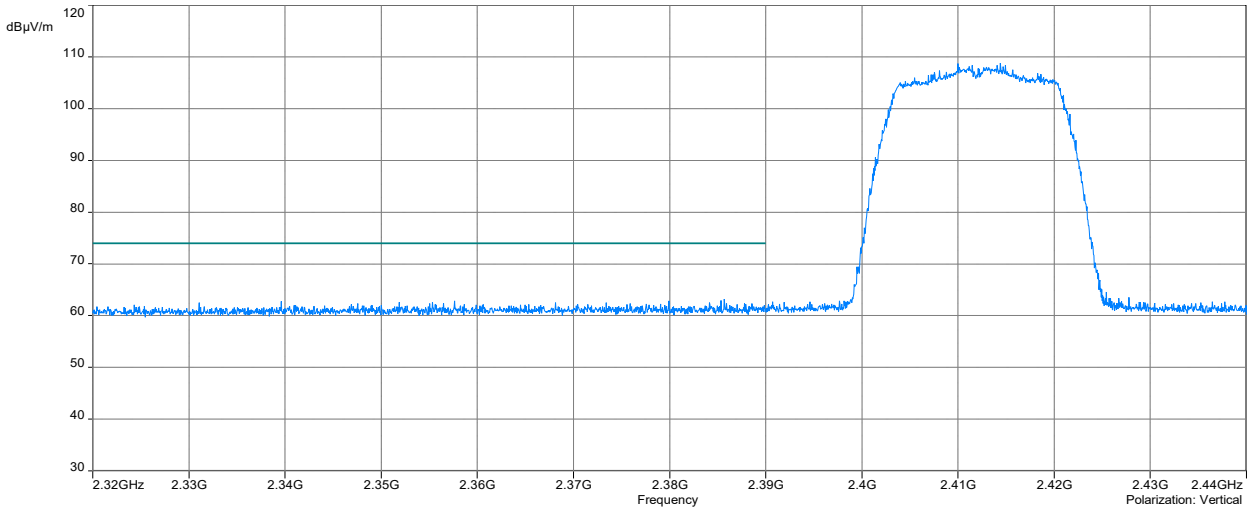
Average Detector



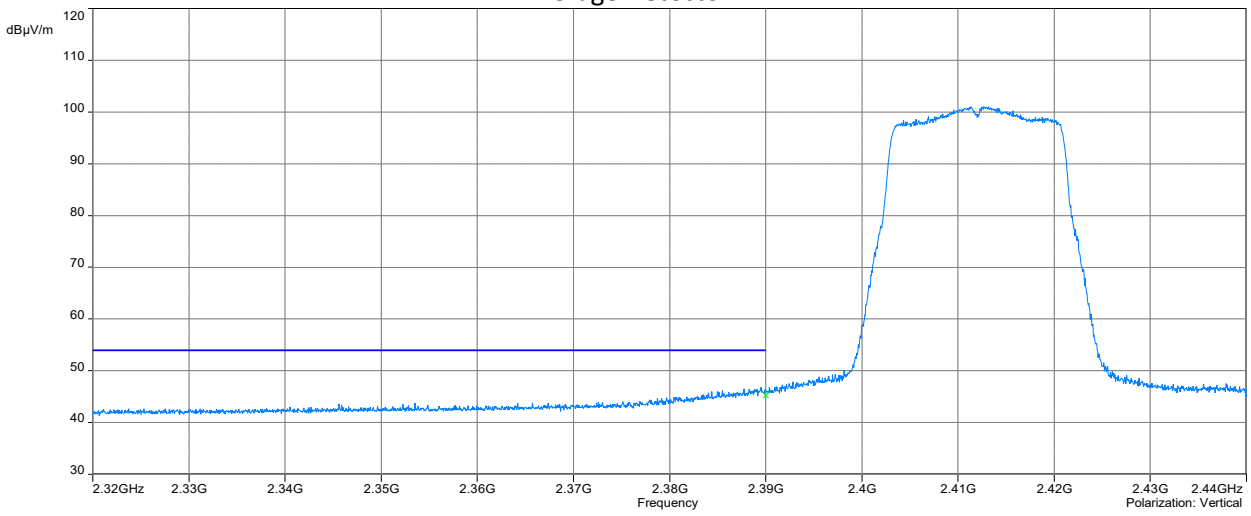
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2390.000	Peak	63.31	74	-10.69	30.20
2390.000	Average	45.36	54	-8.64	30.20

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11n20, 2412 MHz, Battery Mode

Peak Detector



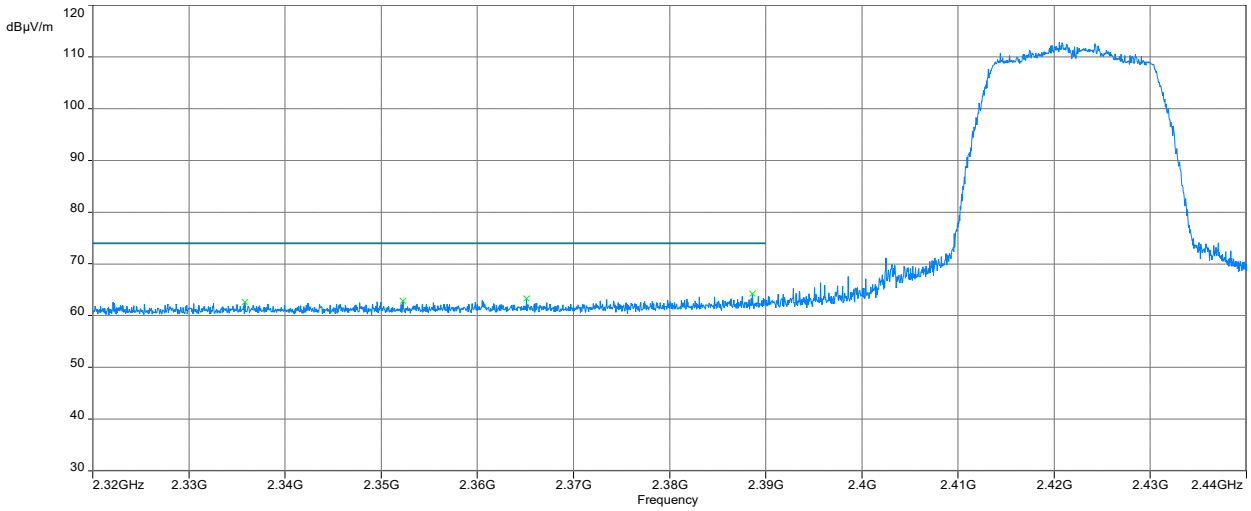
Average Detector



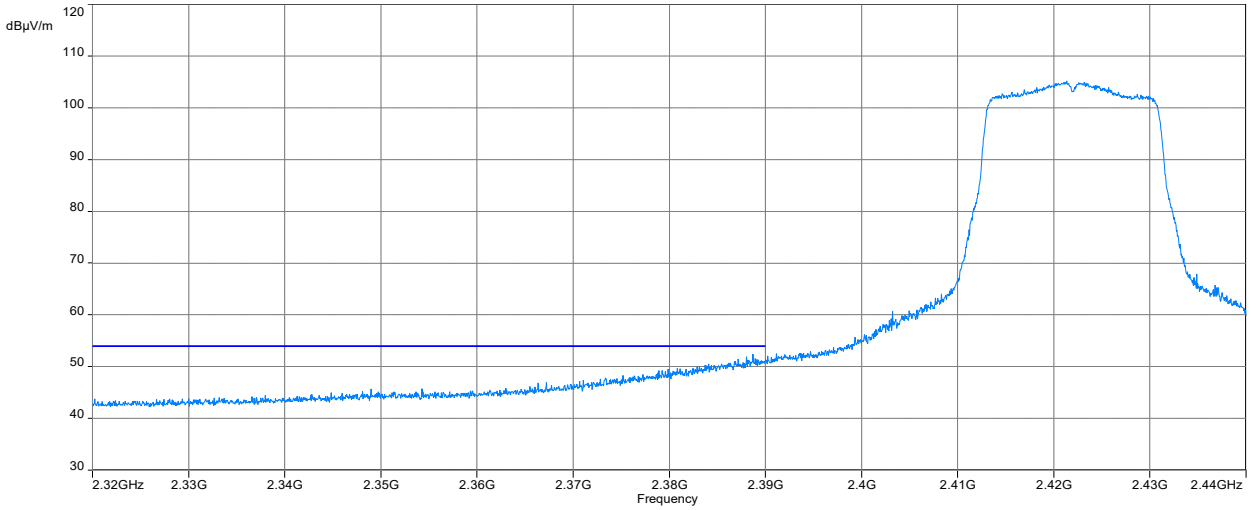
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2390.000	Peak	59.85	74	-14.15	30.20
2390.000	Average	45.24	54	-8.76	30.20

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11n20, 2422 MHz, Charging Mode

Peak Detector



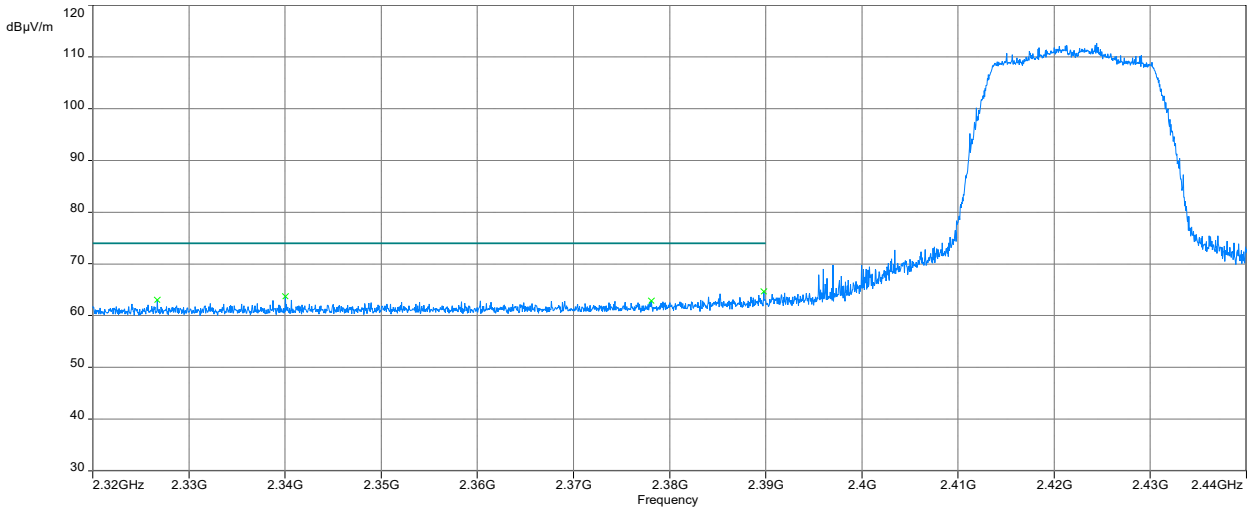
Average Detector



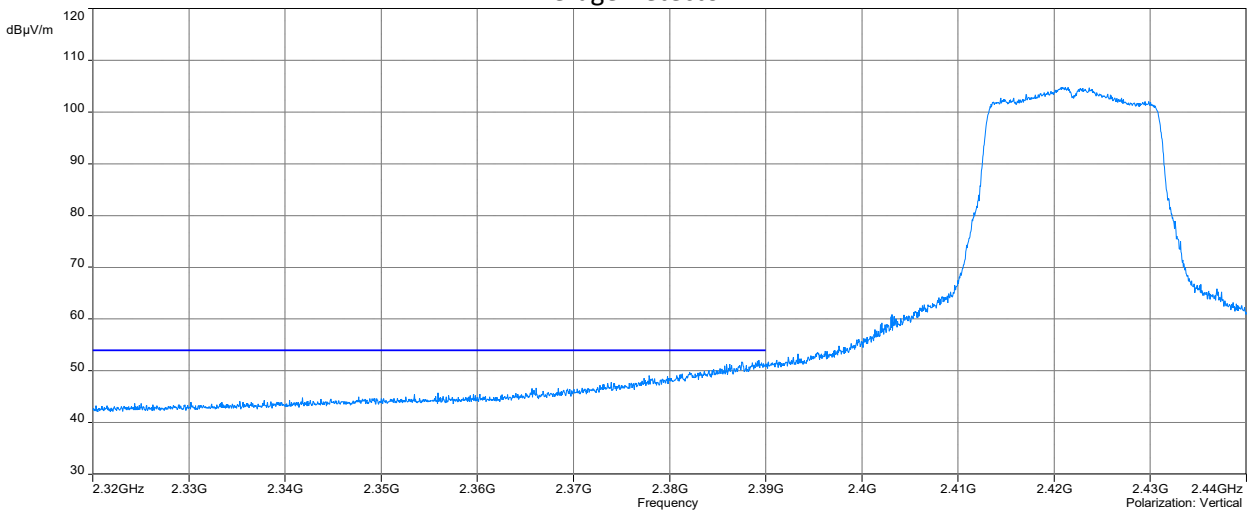
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2390.000	Peak	60.83	74	-13.17	30.20
2390.000	Average	51.09	54	-2.91	30.20

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11n20, 2422 MHz, Battery Mode

Peak Detector



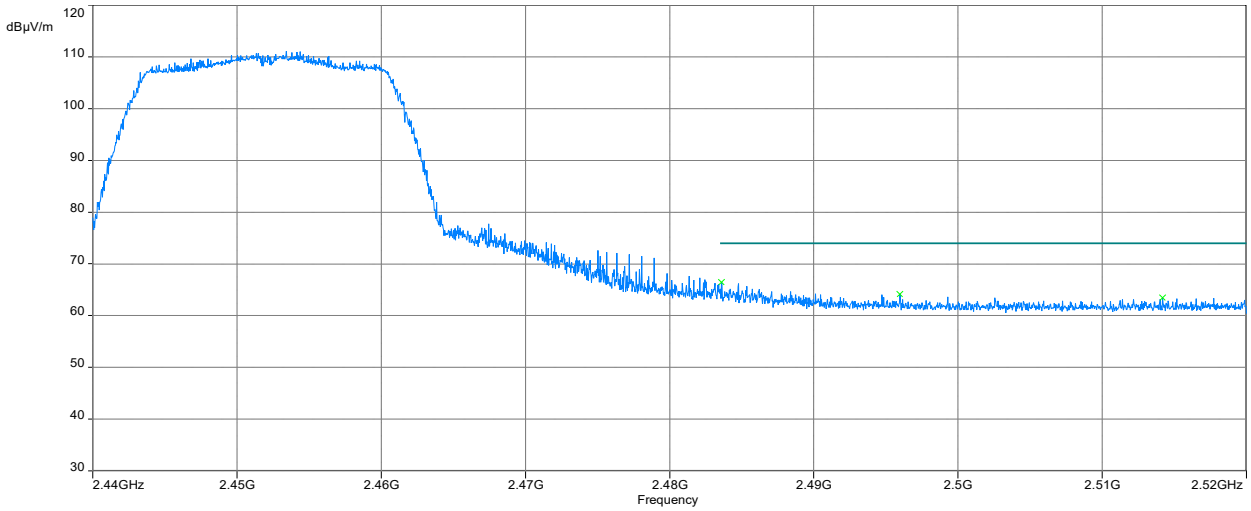
Average Detector



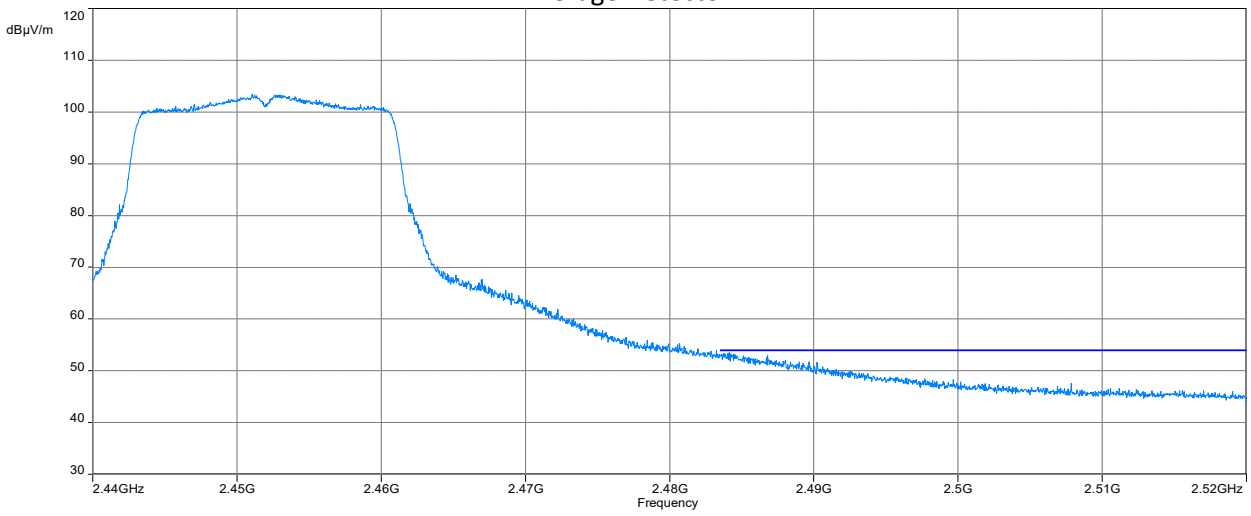
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2390.000	Peak	64.62	74	-9.38	30.20
2390.000	Average	50.08	54	-3.92	30.20

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11n20, 2452 MHz, Charging Mode

Peak Detector



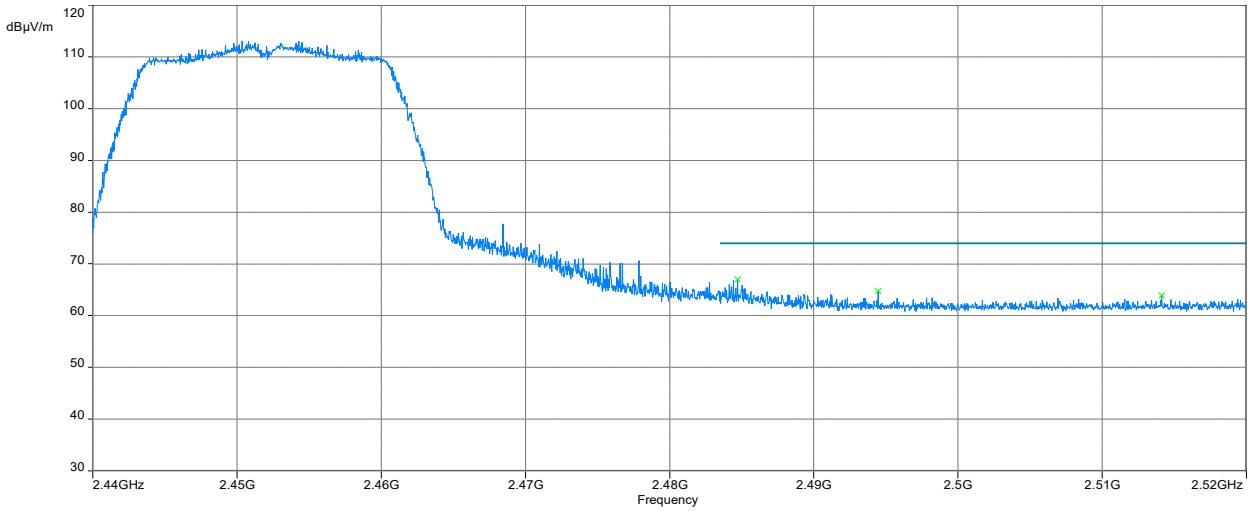
Average Detector



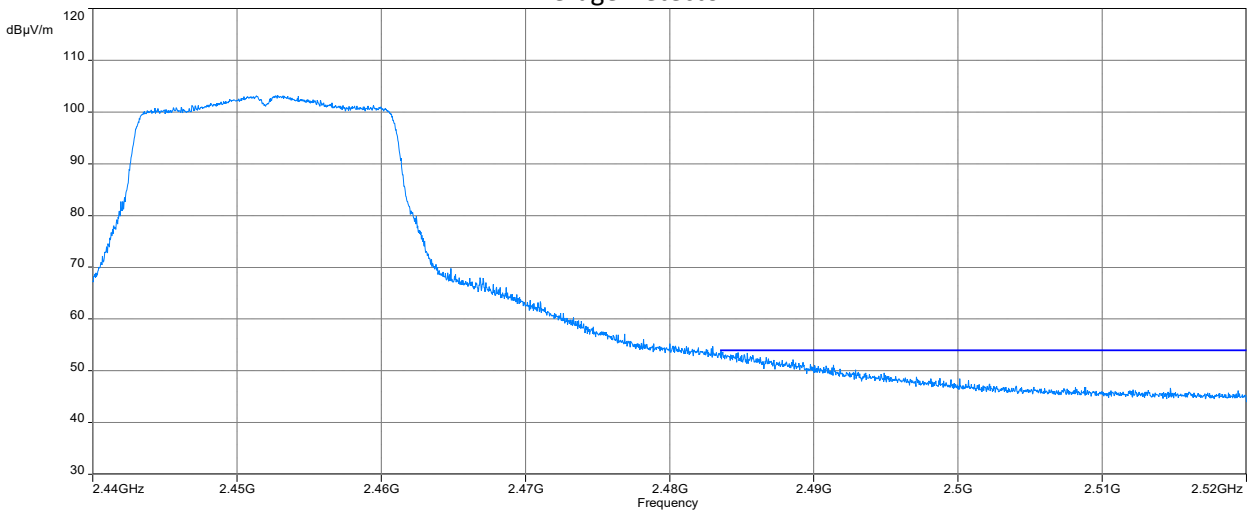
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2483.500	Peak	66.49	74	-7.51	30.22
2483.500	Average	51.03	54	-2.97	30.22

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11n20, 2452 MHz, Battery Mode

Peak Detector



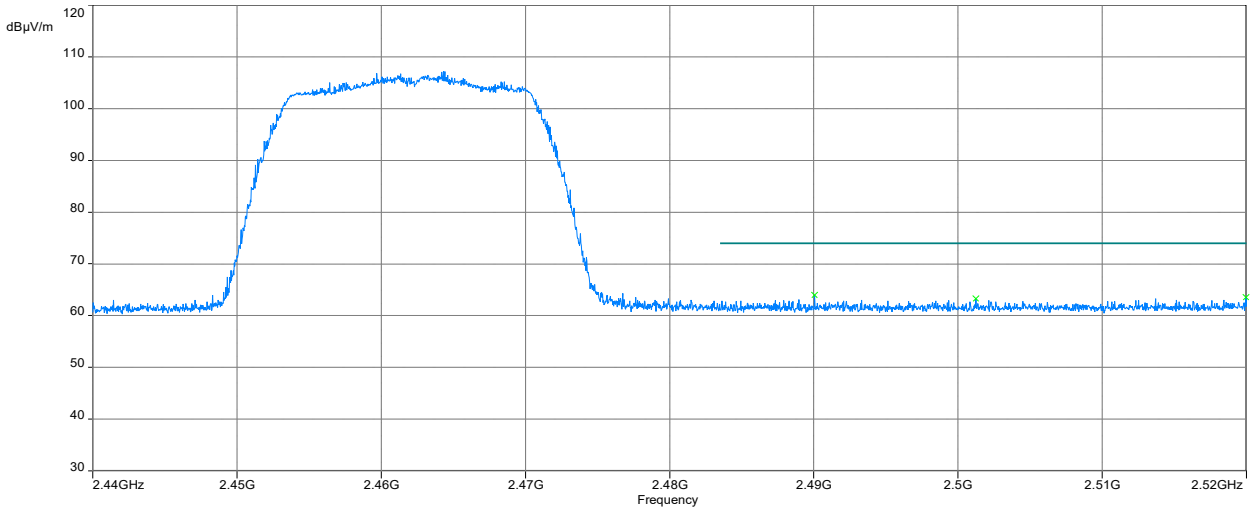
Average Detector



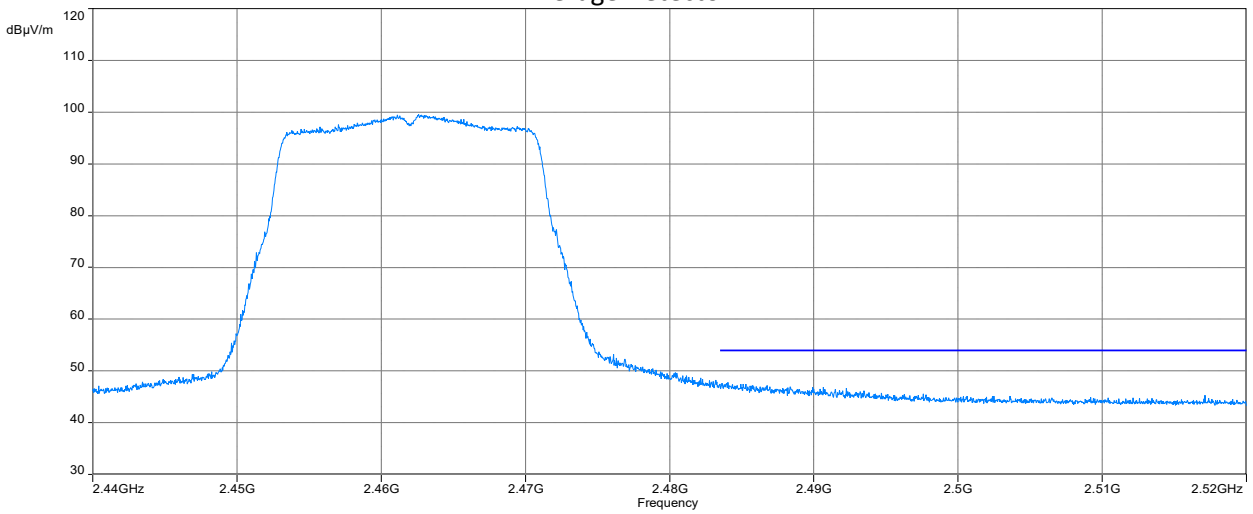
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2483.500	Peak	63.59	74	-10.41	30.22
2483.500	Average	53.82	54	-0.18	30.22

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11n20, 2462 MHz, Charging Mode

Peak Detector



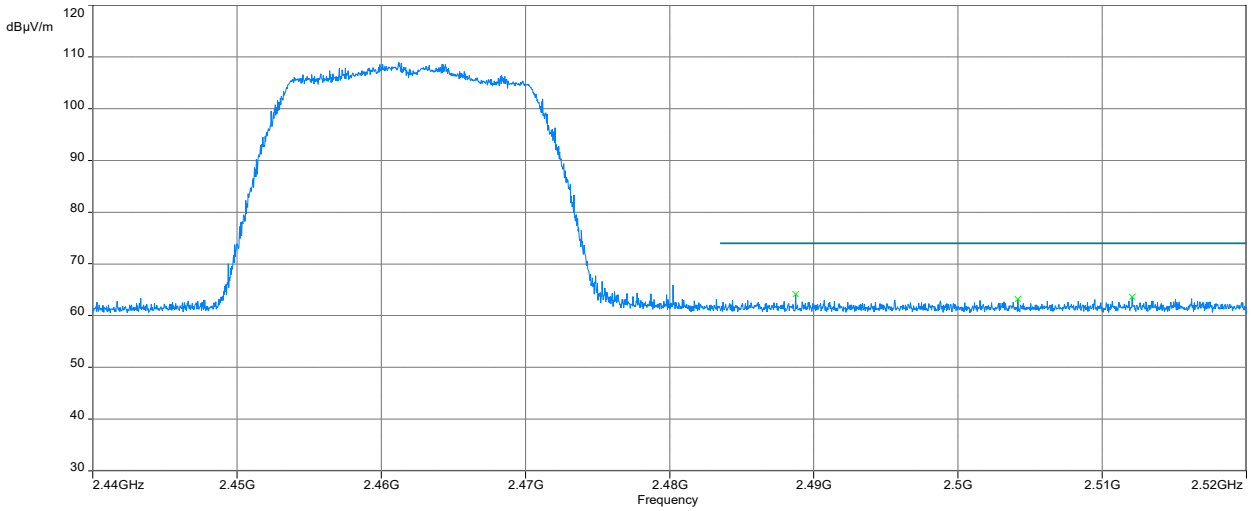
Average Detector



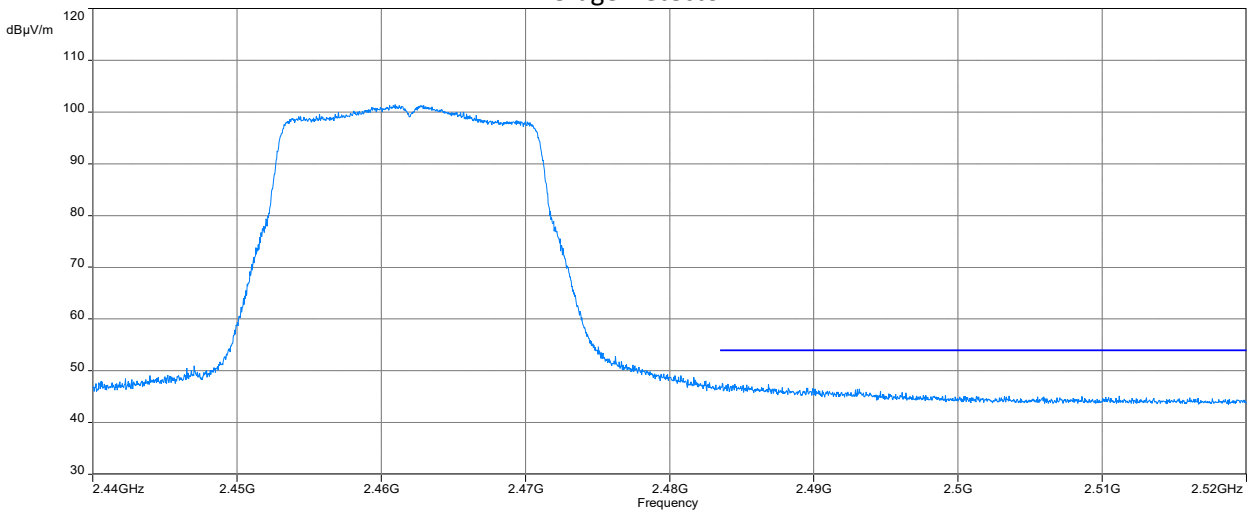
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2483.500	Peak	60.57	74	-13.43	30.22
2483.500	Average	47.15	54	-6.85	30.22

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11n20, 2462 MHz, Battery Mode

Peak Detector



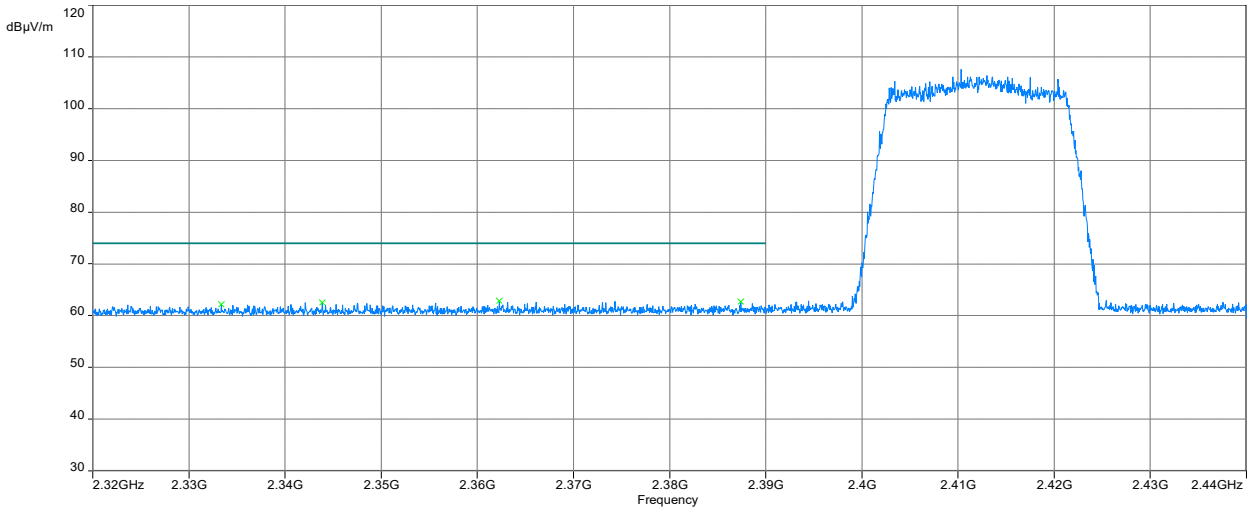
Average Detector



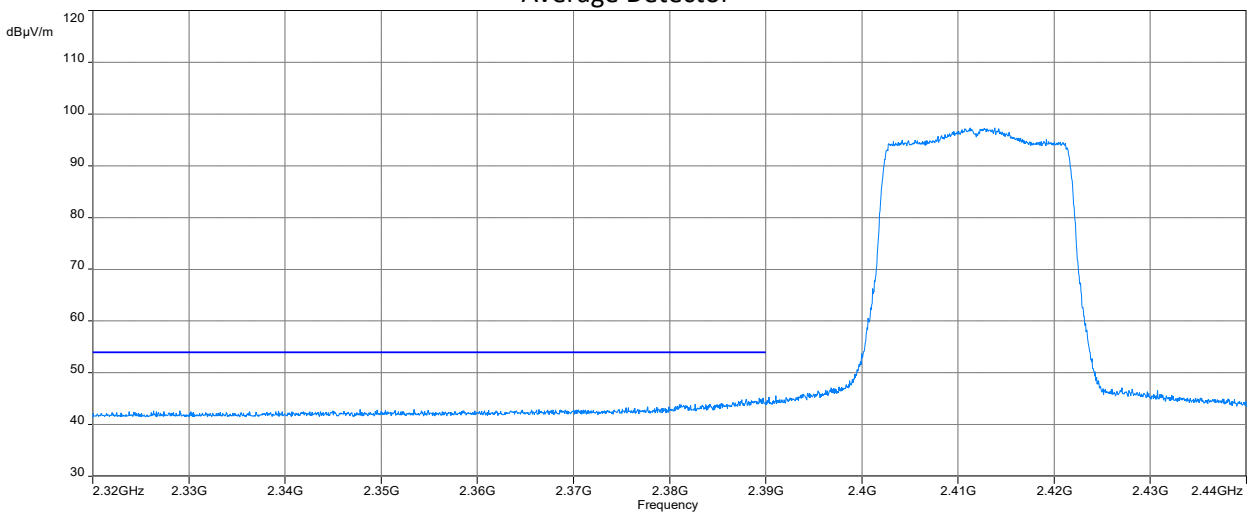
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2483.500	Peak	60.67	74	-13.33	30.22
2483.500	Average	45.21	54	-8.79	30.22

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11ax20, 2412 MHz, Charging Mode

Peak Detector



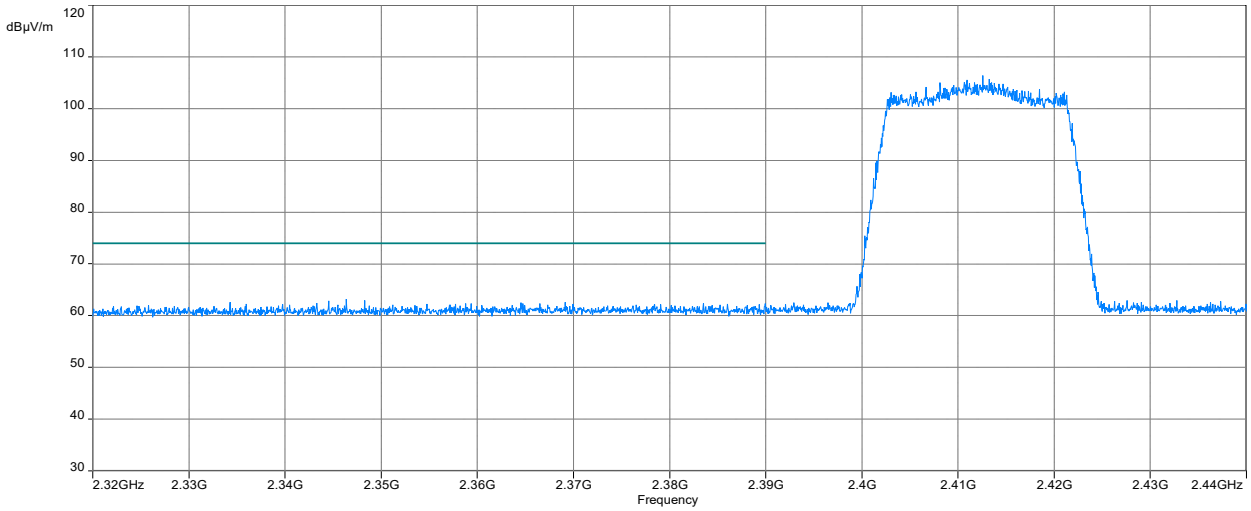
Average Detector



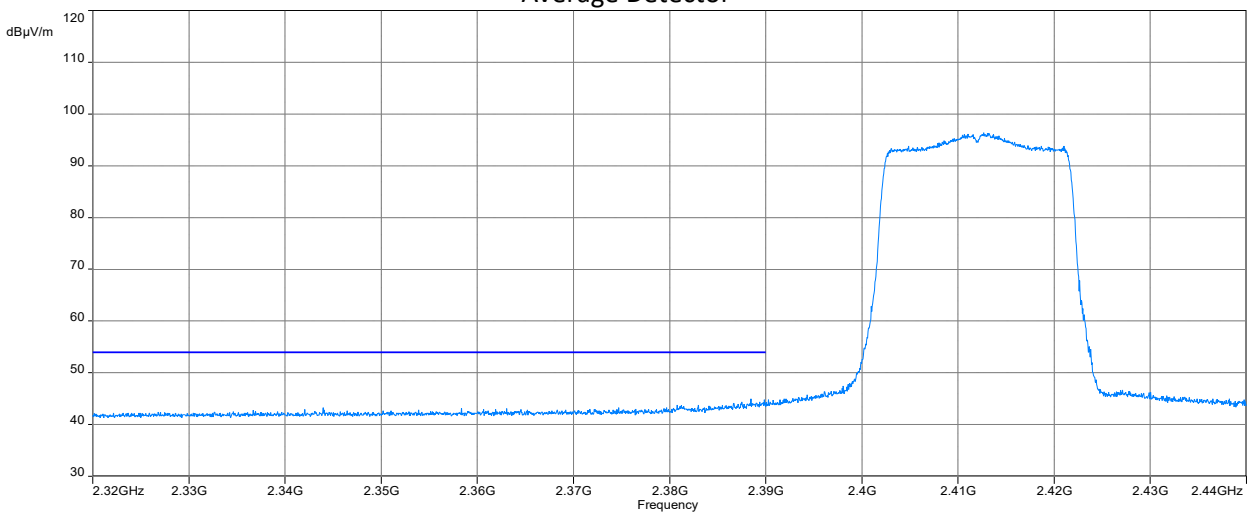
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2390.000	Peak	60.3	74	-13.70	30.20
2390.000	Average	43.12	54	-10.88	30.20

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11ax20, 2412 MHz, Battery Mode

Peak Detector



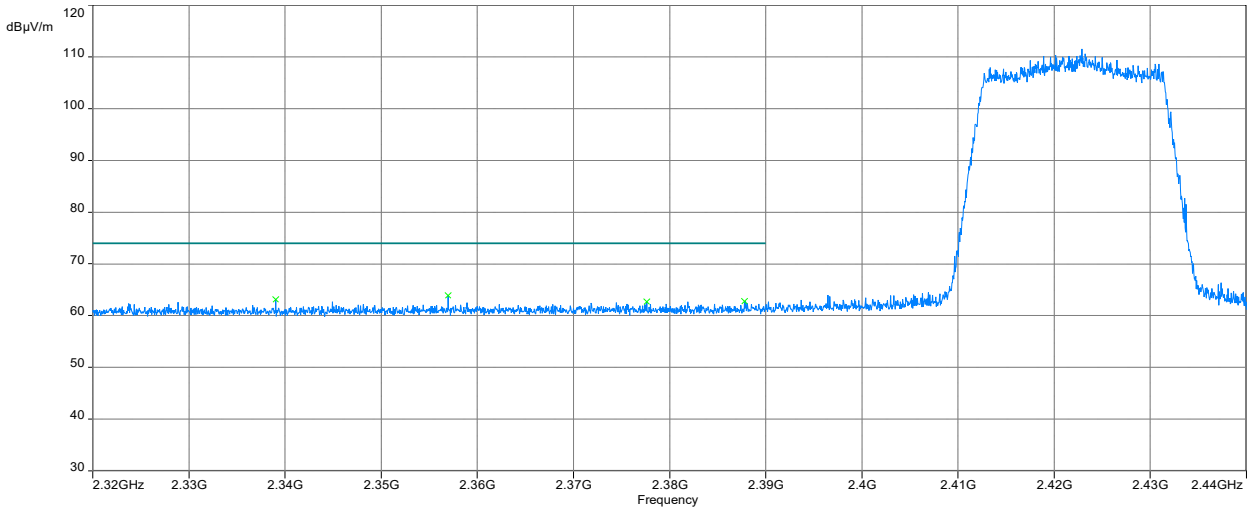
Average Detector



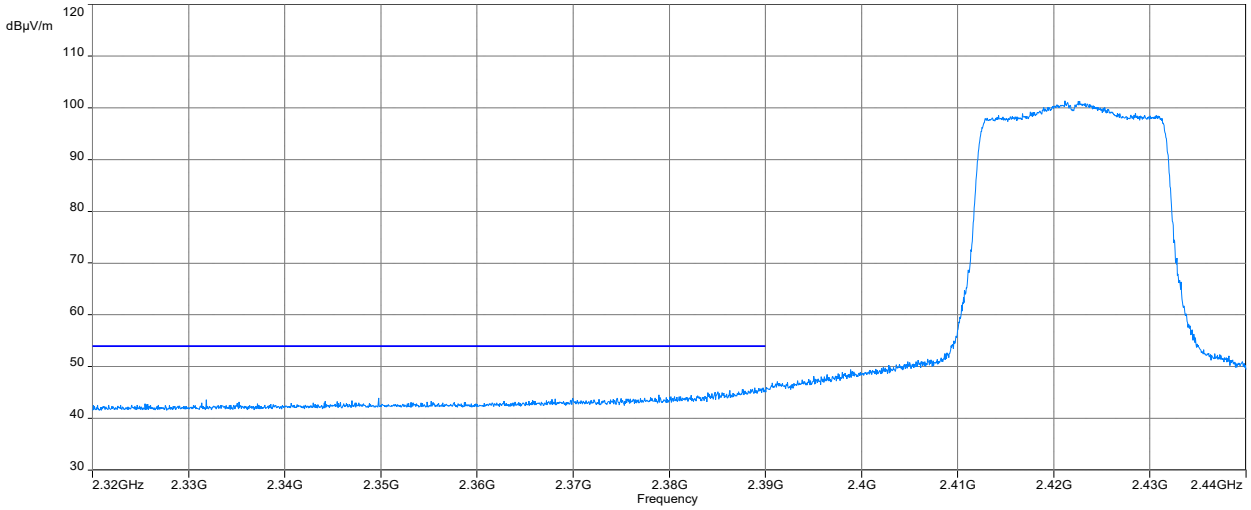
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2390.000	Peak	59.72	74	-14.28	30.20
2390.000	Average	42.78	54	-11.22	30.20

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11ax20, 2422 MHz, Charging Mode

Peak Detector



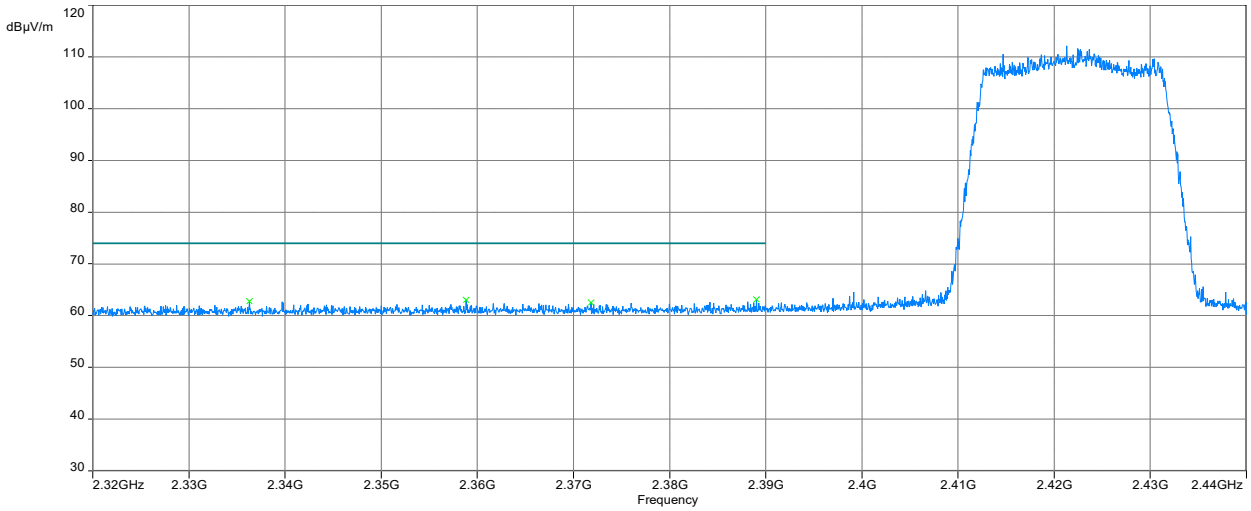
Average Detector



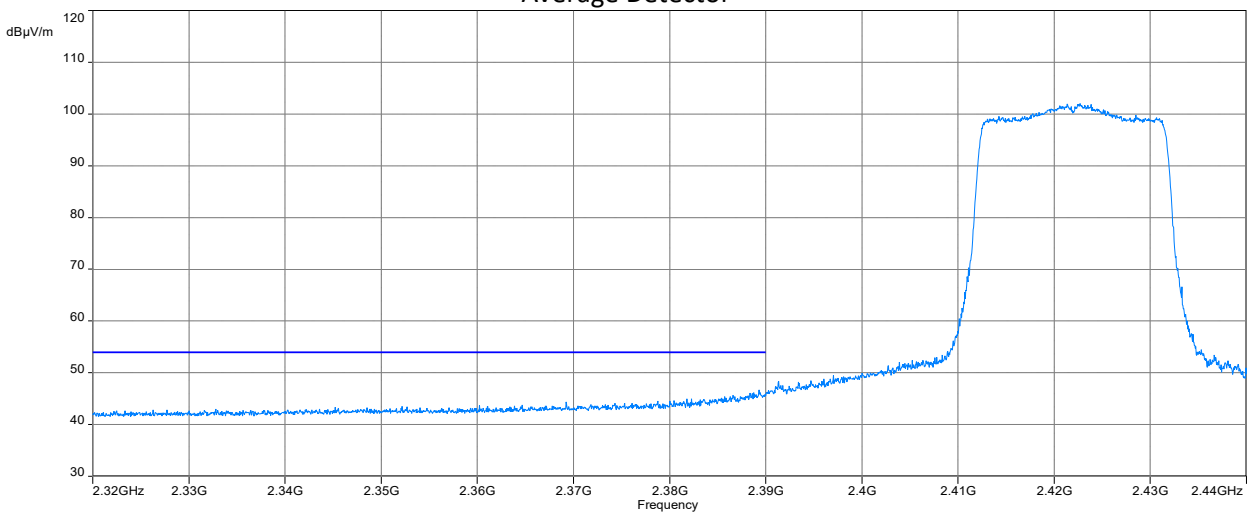
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2390.000	Peak	61.74	74	-12.26	30.20
2390.000	Average	44.63	54	-9.37	30.20

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11ax20, 2422 MHz, Battery Mode

Peak Detector



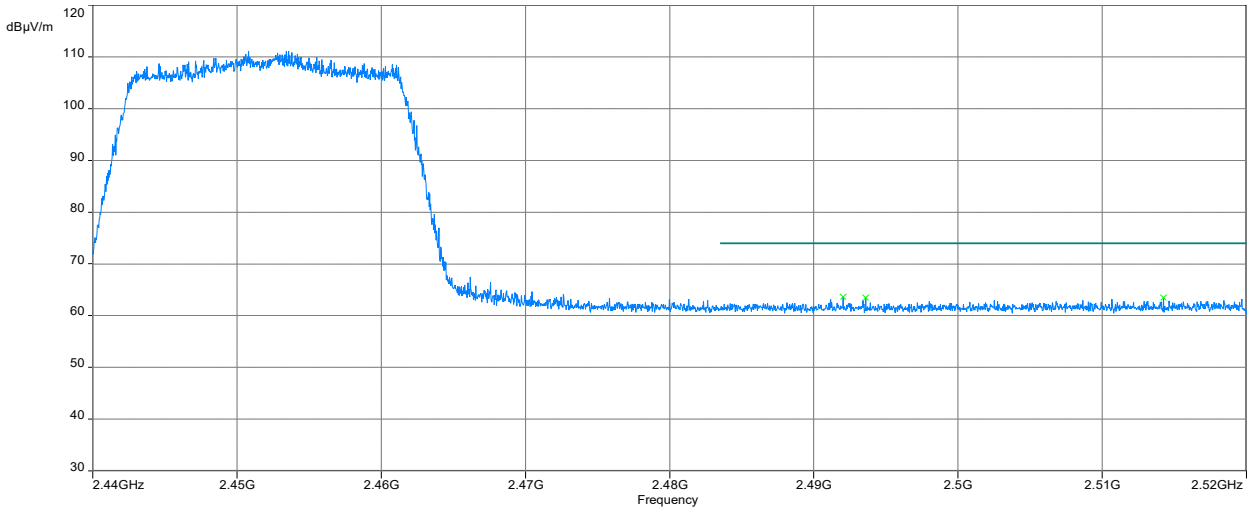
Average Detector



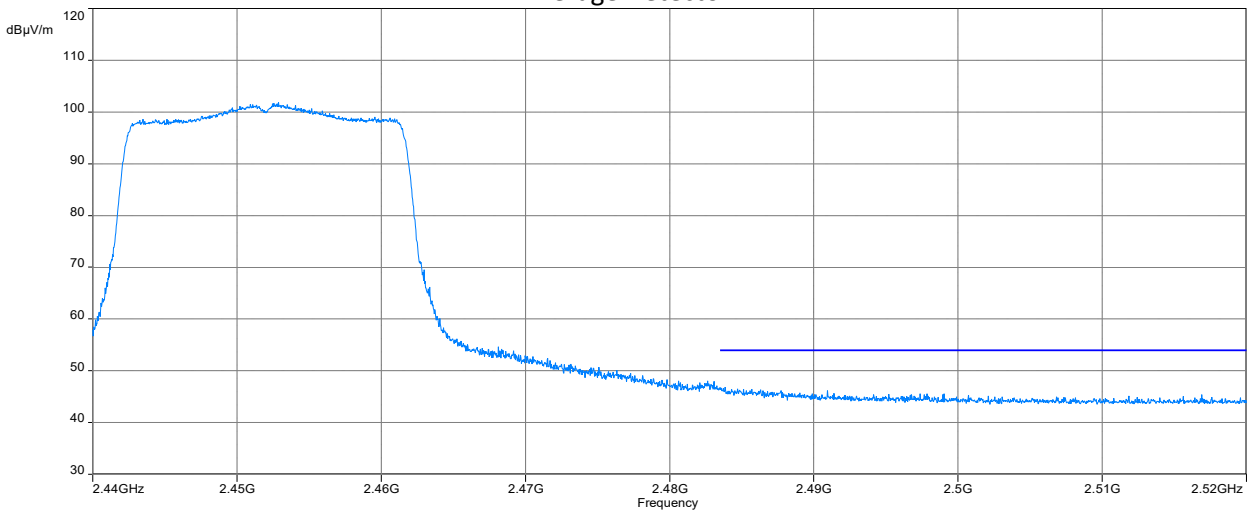
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2390.000	Peak	61.03	74	-12.97	30.20
2390.000	Average	45.36	54	-8.64	30.20

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11ax20, 2452 MHz, Charging Mode

Peak Detector



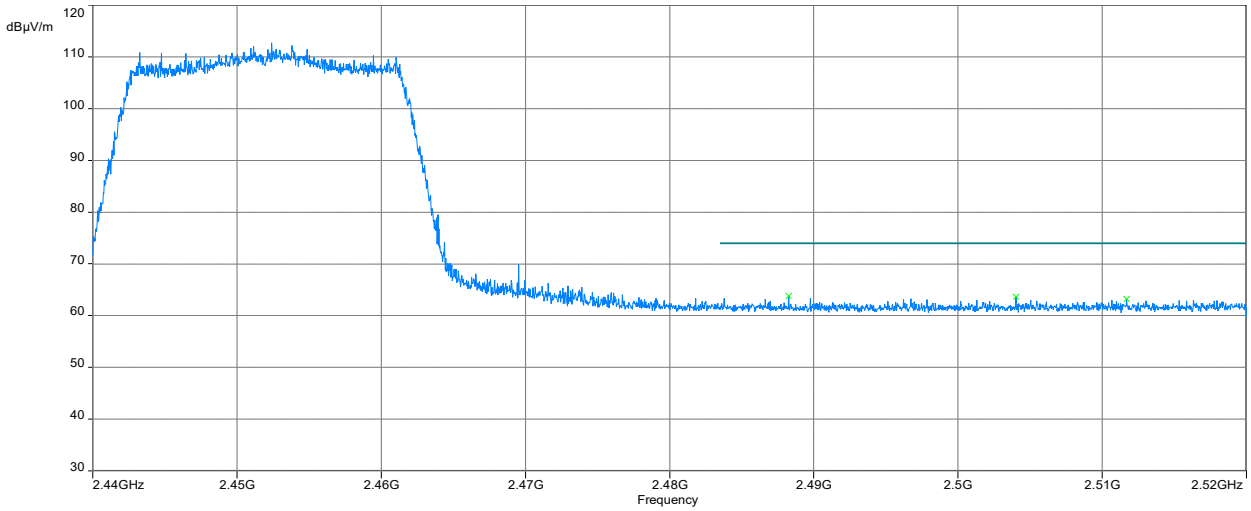
Average Detector



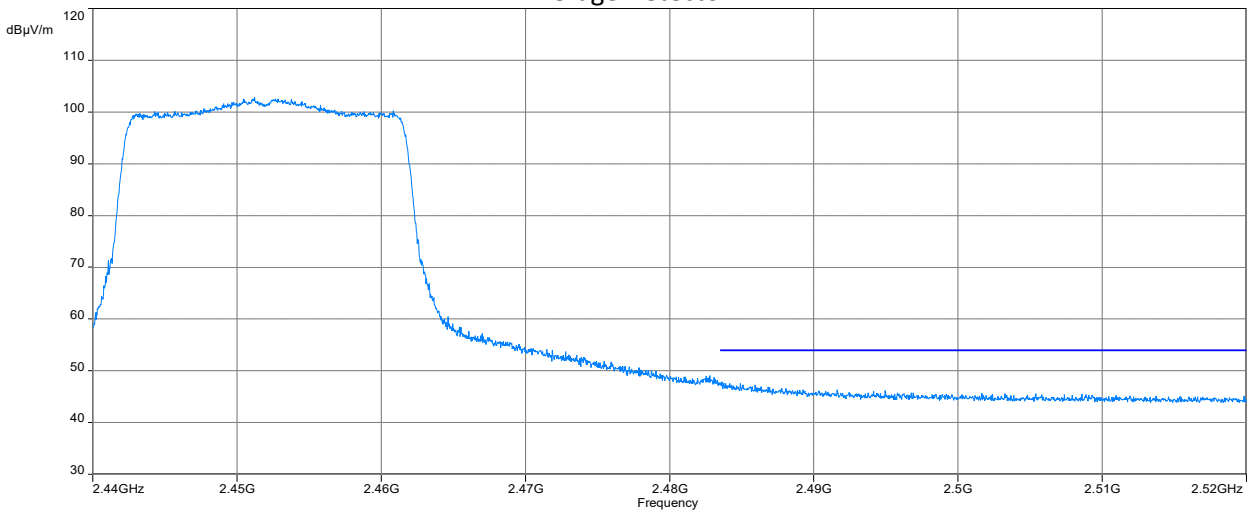
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2483.500	Peak	60.46	74	-13.54	30.22
2483.500	Average	46.62	54	-7.38	30.22

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11ax20, 2452 MHz, Battery Mode

Peak Detector



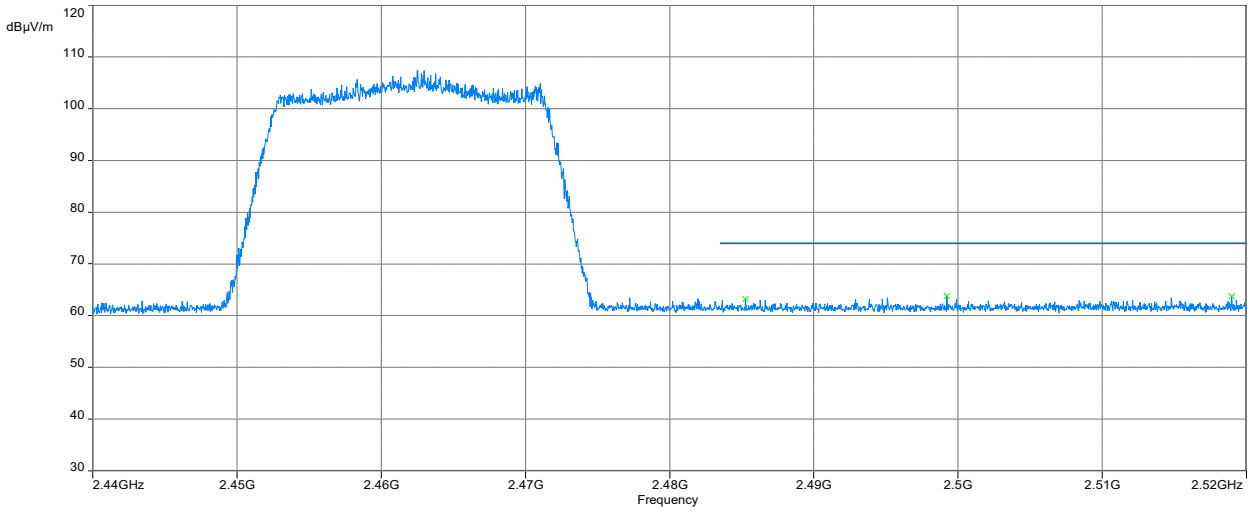
Average Detector



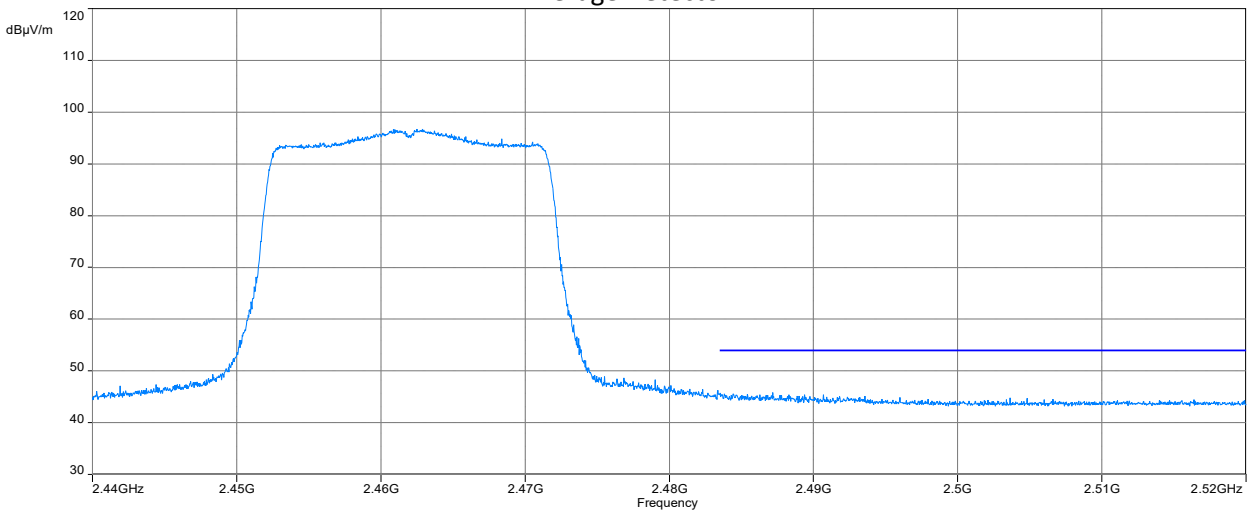
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2483.500	Peak	60.76	74	-13.24	30.22
2483.500	Average	46.95	54	-7.05	30.22

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11ax20, 2462 MHz, Charging Mode

Peak Detector



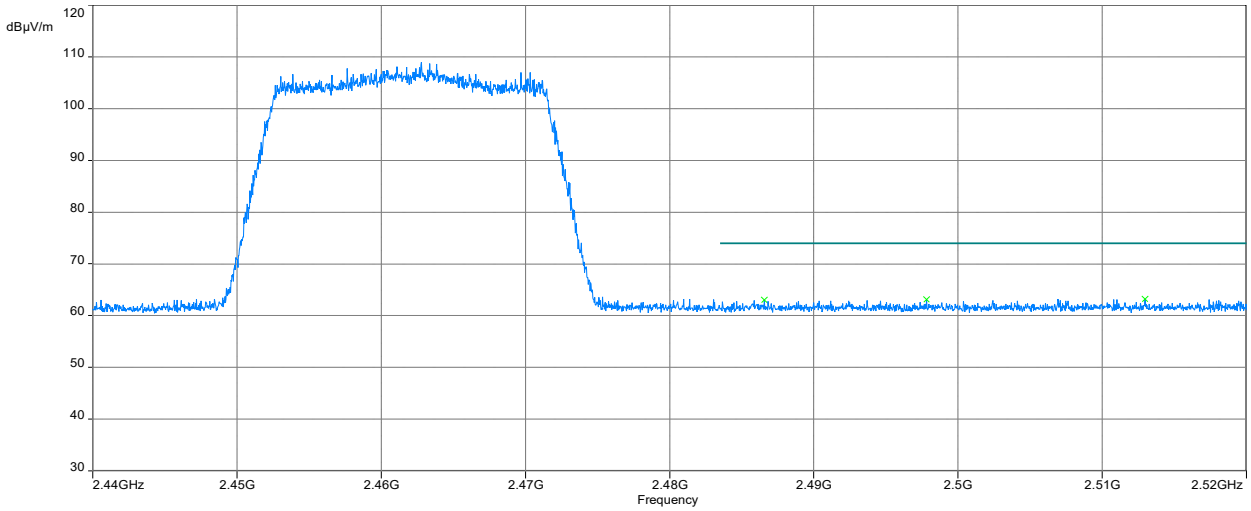
Average Detector



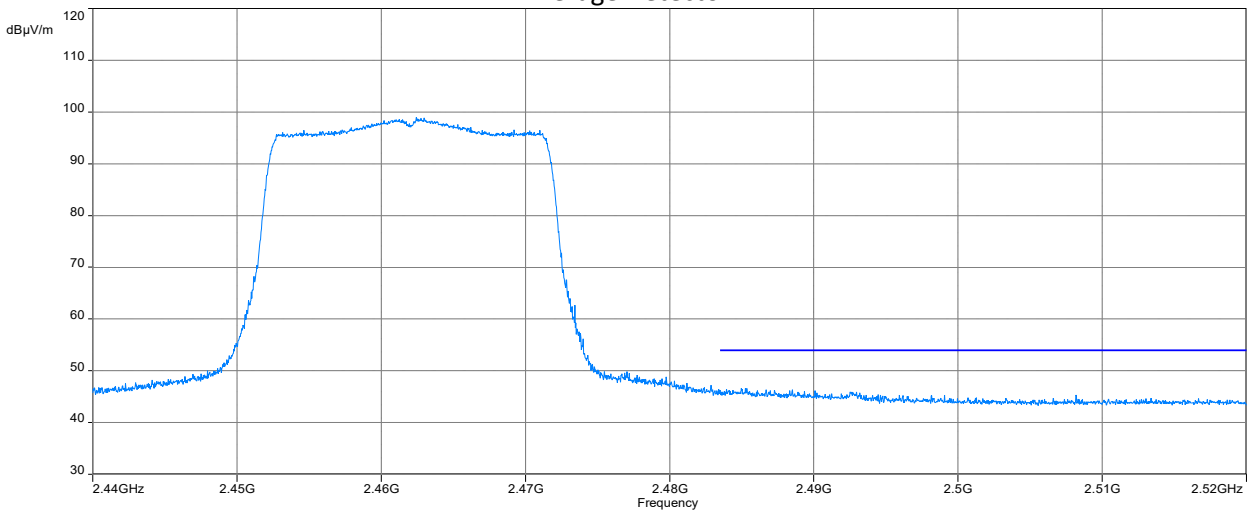
Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2483.500	Peak	60.54	74	-13.46	30.22
2483.500	Average	44.09	54	-9.91	30.22

Out-of-Band Radiated spurious emissions at the Band-edge @3m distance
802.11ax20, 2462 MHz, Battery Mode

Peak Detector



Average Detector



Freq. MHz	Detector Mode PK/QP/AV	FS dB(µV/m)	PK/AV Limit dB(µV/m)	Margin dB	Correction dB
2483.500	Peak	60.47	74	-13.53	30.22
2483.500	Average	44.71	54	-9.29	30.22

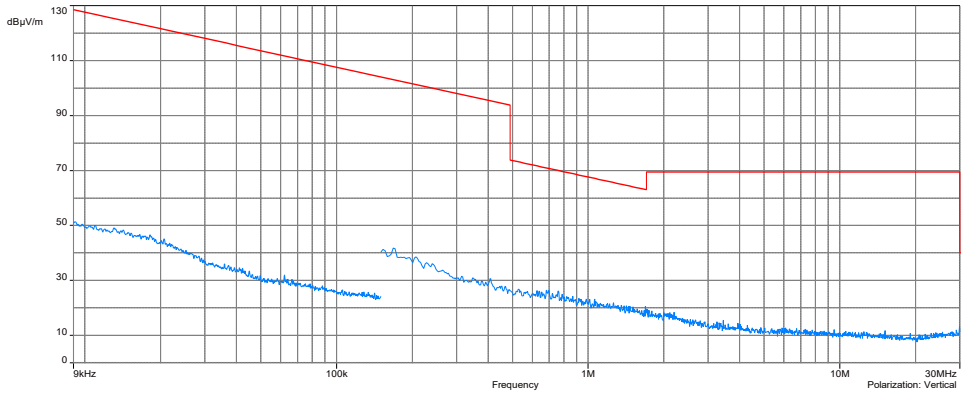
Results	**Complies**

Out-of-Band Radiated Spurious Emissions

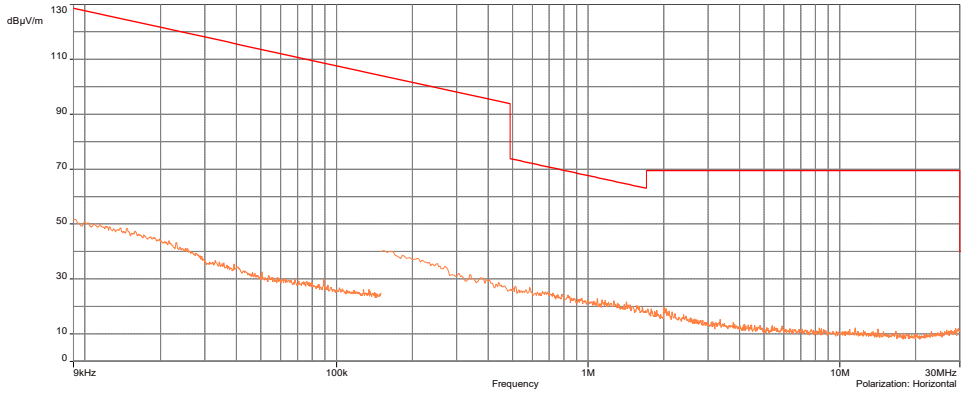
Test Results: 15.209 Radiated Spurious Emissions Low Channel
Tx at 802.11b, 2412MHz, Charging Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

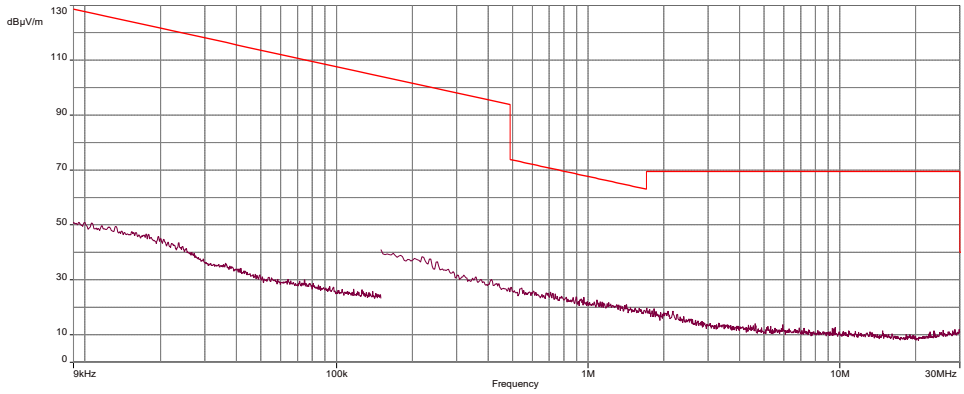
Antenna Position - Coaxial



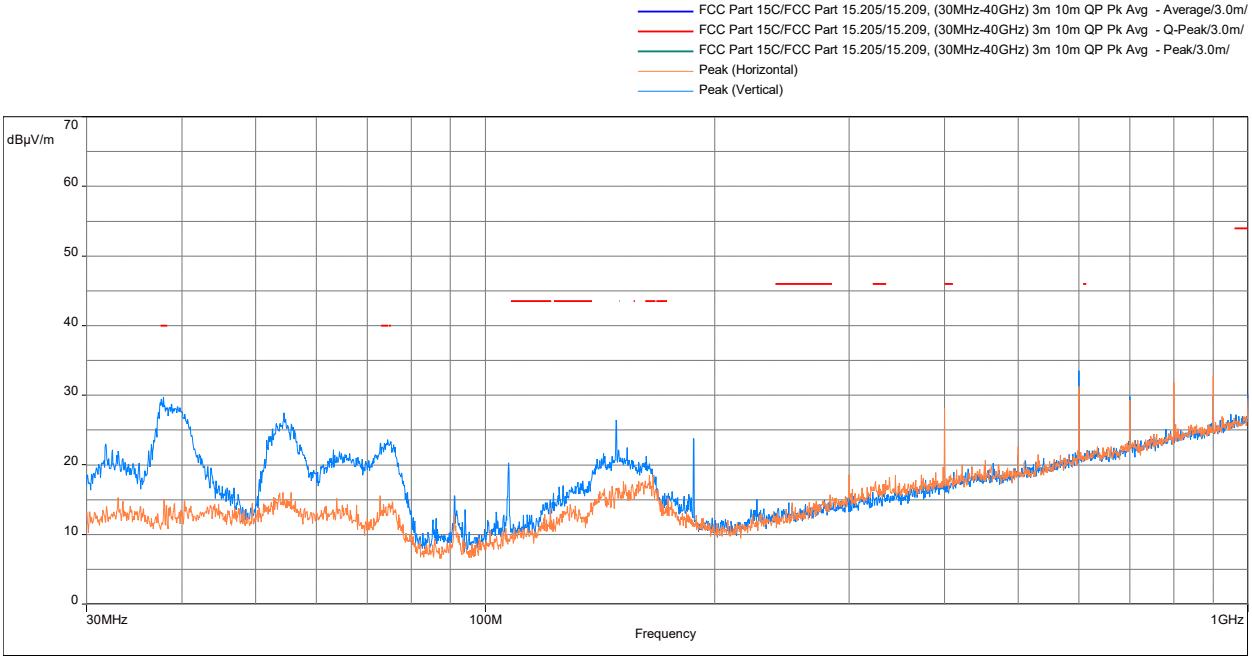
Antenna Position - Coplanar



Antenna Position - Horizontal

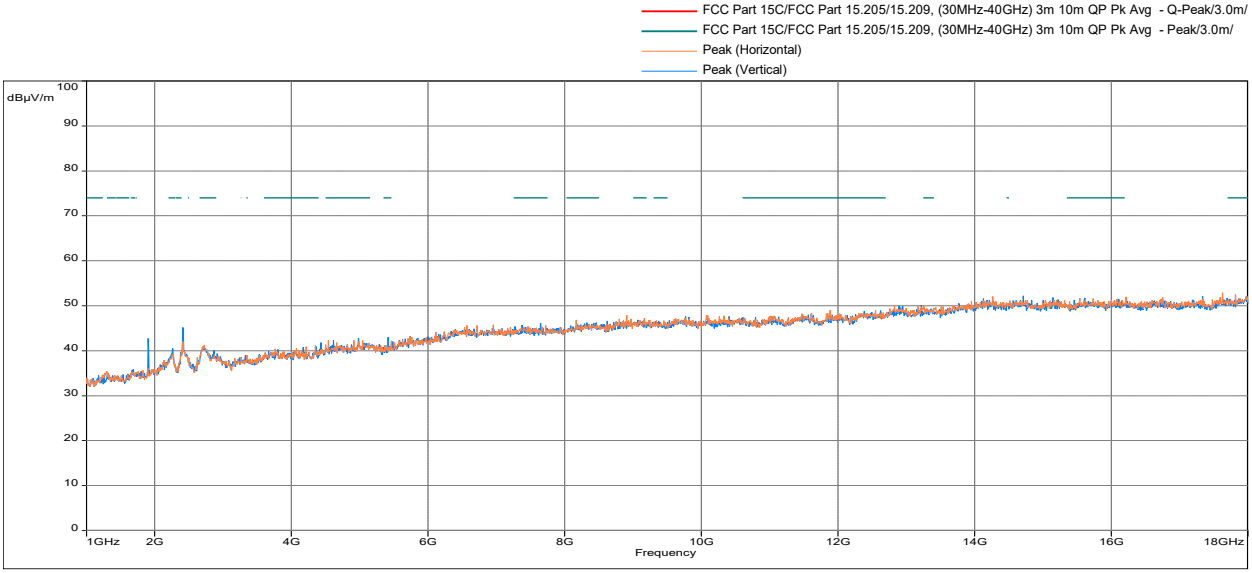


Radiated Spurious Emissions 30 MHz to 1000 MHz

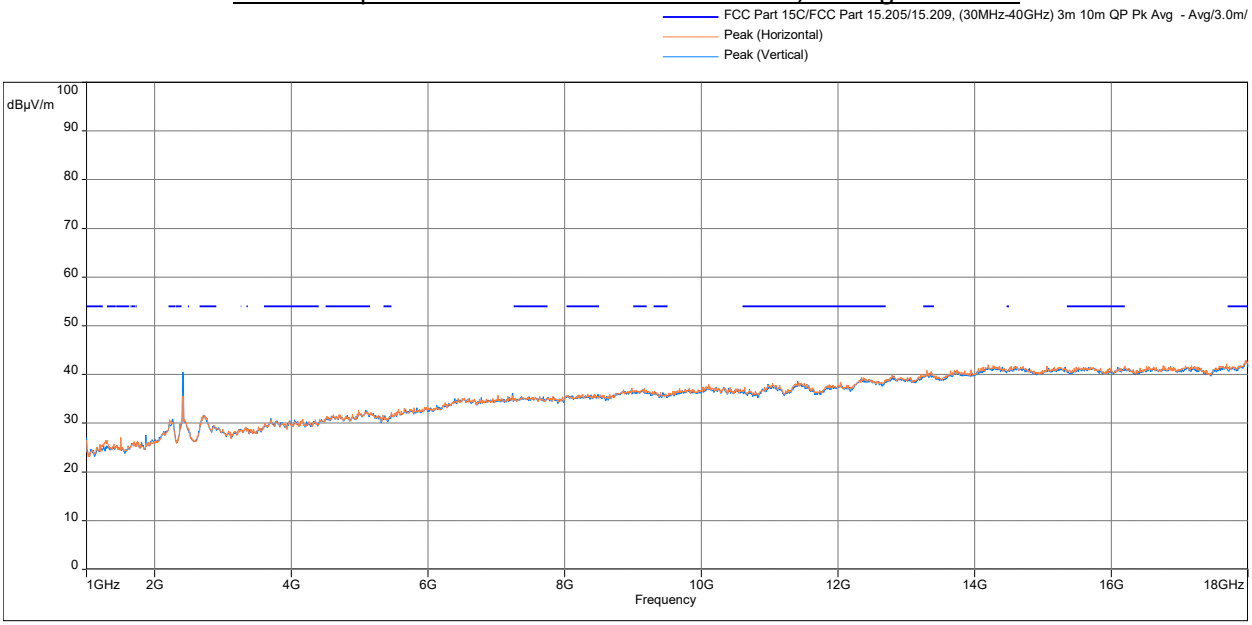


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
37.857	29.72	40.00	-10.28	84.13	Vertical	-14.10
74.458	23.66	40.00	-16.34	288.18	Vertical	-16.99
399.990	28.10	46.00	-17.90	212.94	Horizontal	-10.45
162.599	21.23	43.50	-22.27	137.85	Vertical	-13.25
1000.000	30.17	54.00	-23.83	240.88	Vertical	0.54
610.868	21.73	46.00	-24.27	3.94	Vertical	-6.27

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



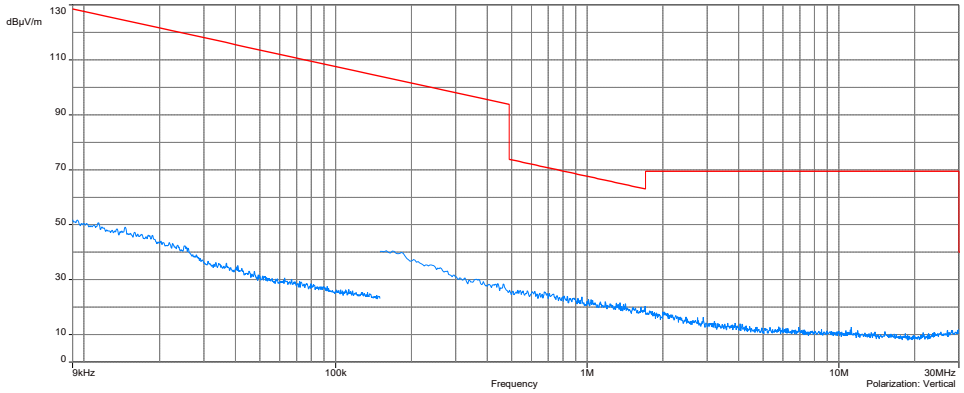
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17818.67	Peak	52.57	74.00	-21.43	237.13	Horizontal	3.41
17988.67	Peak	52.14	74.00	-21.86	81.47	Vertical	3.71
15613.77	Peak	51.75	74.00	-22.25	247.43	Vertical	3.88
17972.23	Average	43.00	54.00	-11.00	74.77	Horizontal	3.71
17963.17	Average	42.58	54.00	-11.42	0.00	Vertical	3.72
11406.83	Average	38.62	54.00	-15.38	0.00	Vertical	3.51

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

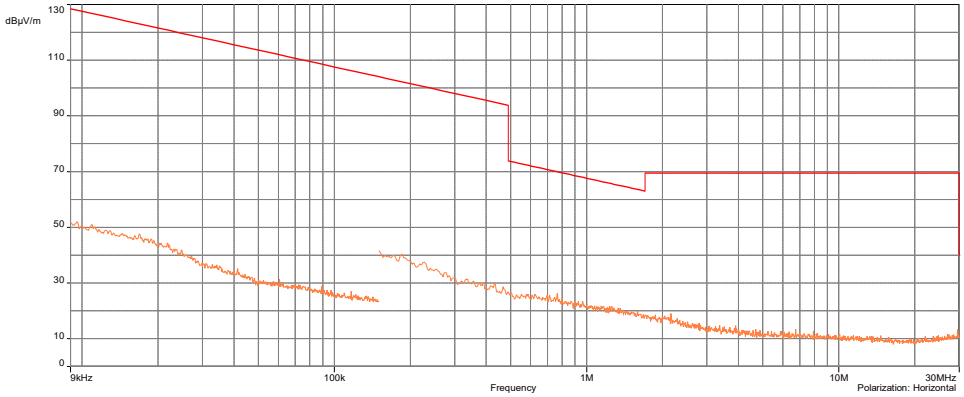
Test Results: 15.209 Radiated Spurious Emissions Low Channel
Tx at 802.11b, 2412MHz, Battery Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

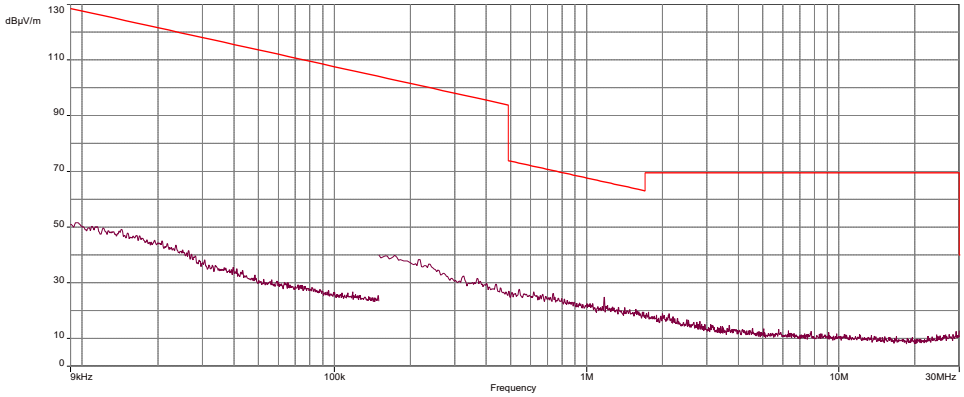
Antenna Position - Coaxial



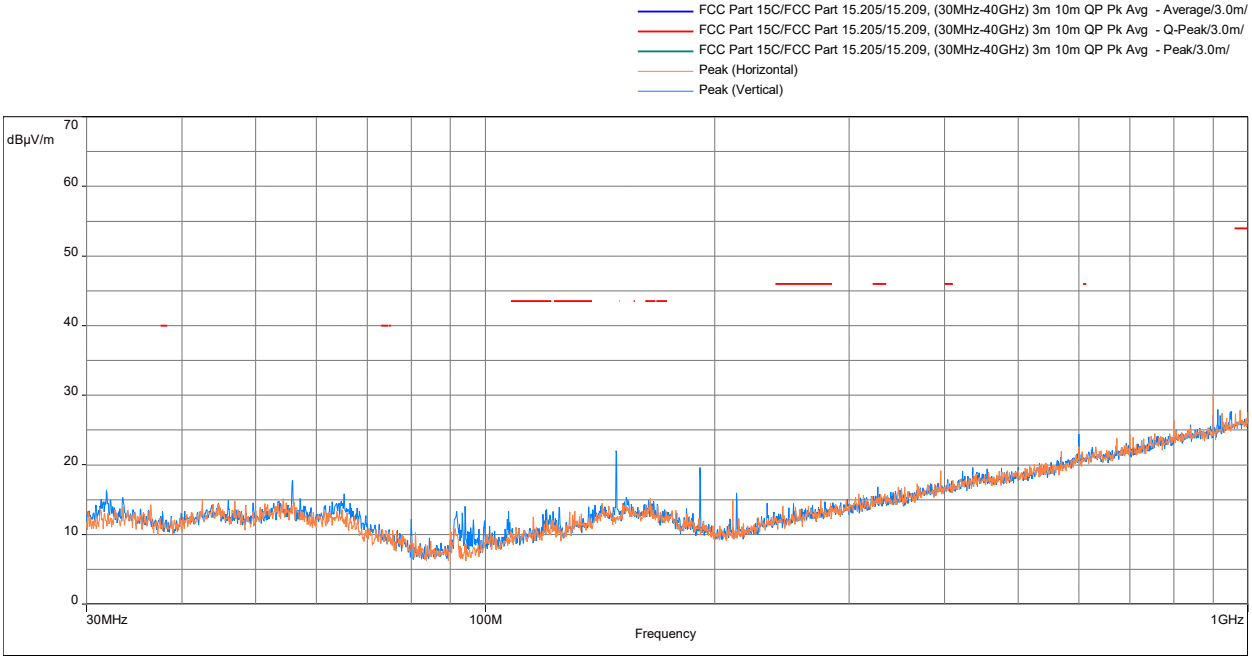
Antenna Position - Coplanar



Antenna Position - Horizontal

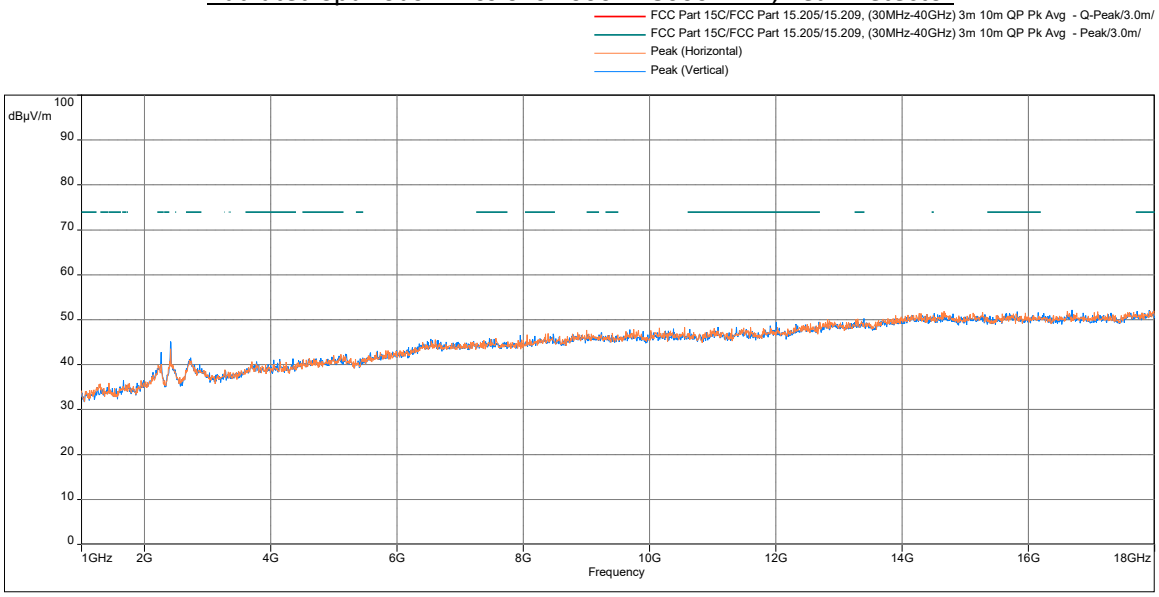


Radiated Spurious Emissions 30 MHz to 1000 MHz

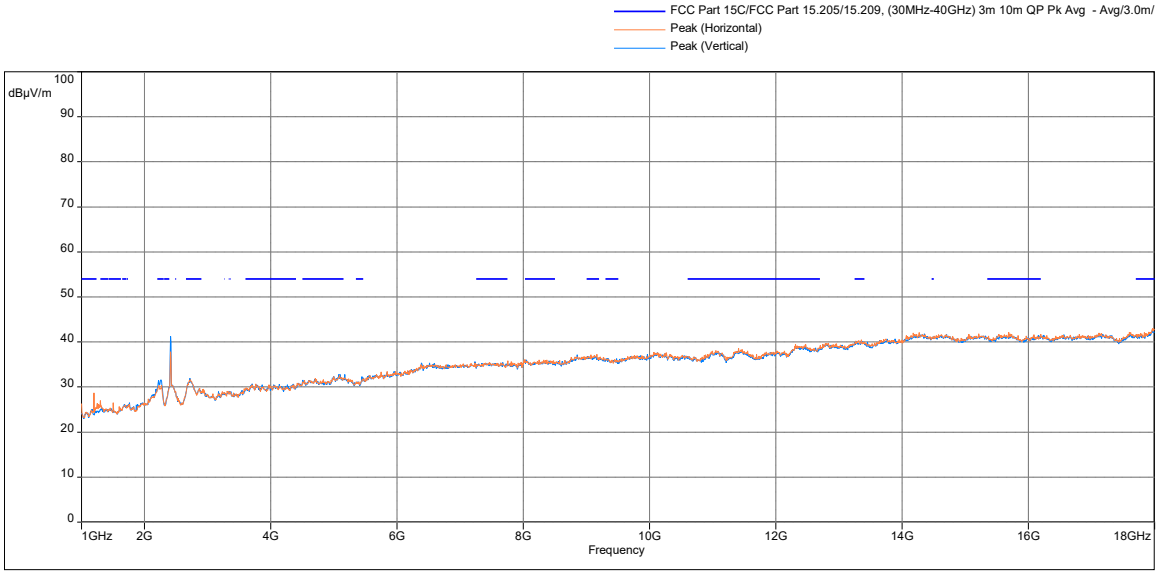


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
977.140	27.91	54.00	-26.09	356.55	Horizontal	0.06
1000.000	27.56	54.00	-26.44	351.37	Horizontal	0.54
962.590	27.34	54.00	-26.66	300.20	Horizontal	-0.06
993.921	26.72	54.00	-27.28	34.02	Horizontal	0.47
989.750	26.58	54.00	-27.42	135.97	Vertical	0.42
1000.000	26.56	54.00	-27.44	139.57	Vertical	0.54

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



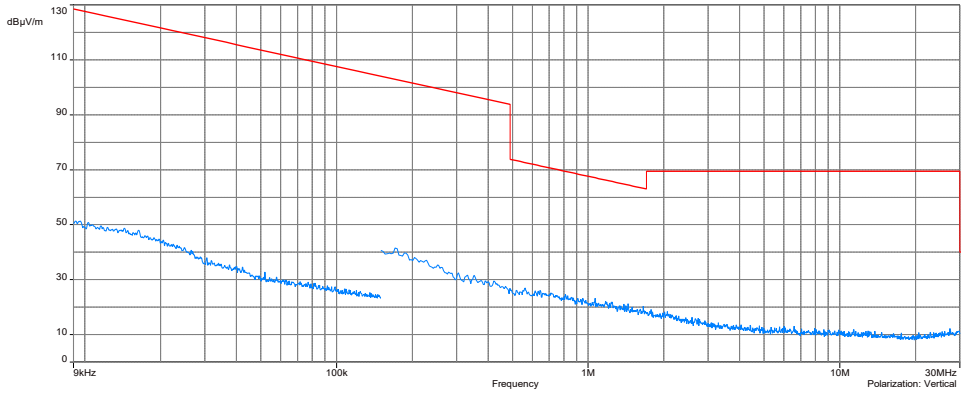
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17998.87	Peak	52.70	74.00	-21.30	99.03	Horizontal	3.71
17913.30	Peak	52.05	74.00	-21.95	145.55	Vertical	3.63
15824.00	Peak	51.77	74.00	-22.23	174.21	Vertical	4.11
17970.53	Average	43.06	54.00	-10.94	257.86	Horizontal	3.71
17961.47	Average	42.47	54.00	-11.53	286.02	Vertical	3.72
11409.10	Average	38.62	54.00	-15.38	0.00	Horizontal	3.50

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

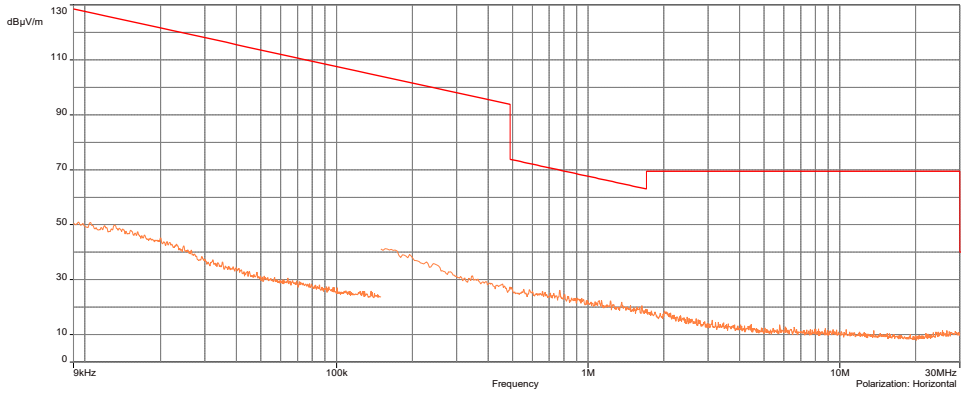
Test Results: 15.209 Radiated Spurious Emissions Mid Channel
Tx at 802.11b, 2437MHz, Charging Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

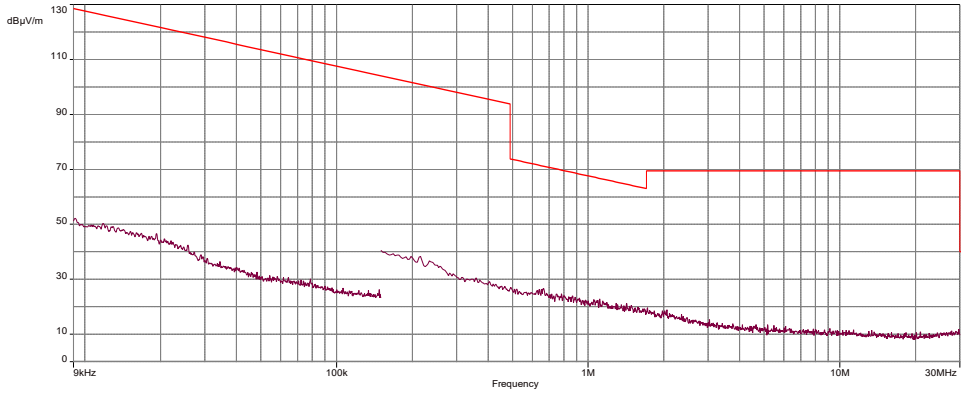
Antenna Position - Coaxial



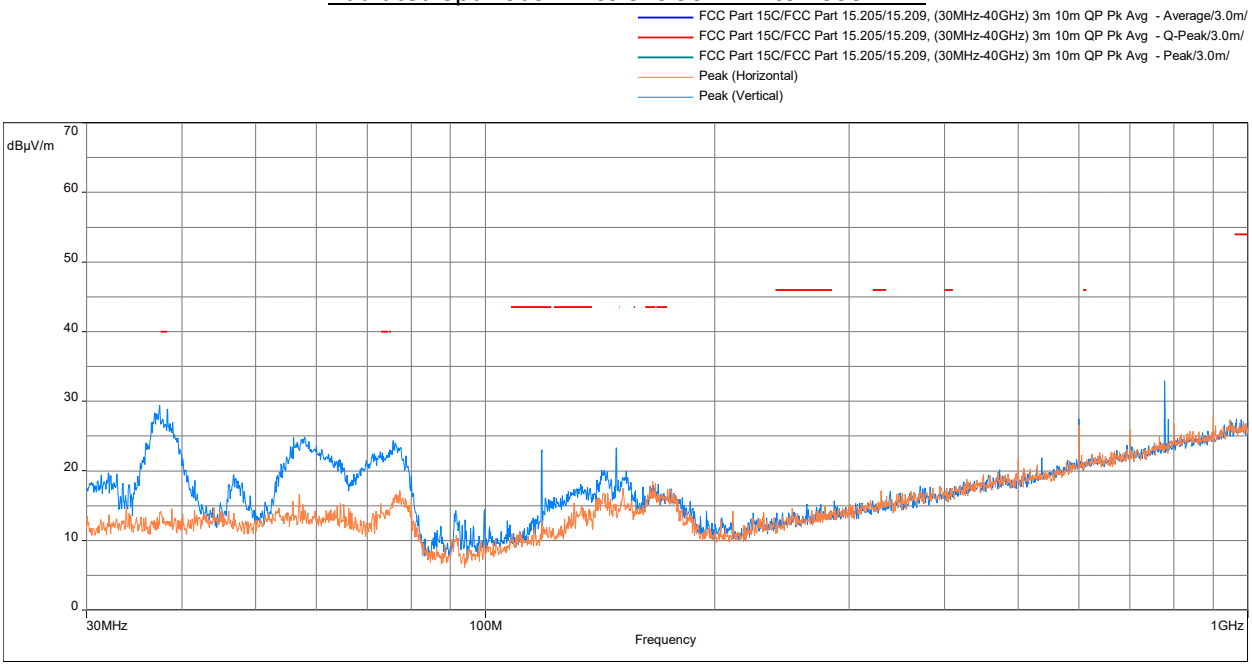
Antenna Position - Coplanar



Antenna Position - Horizontal

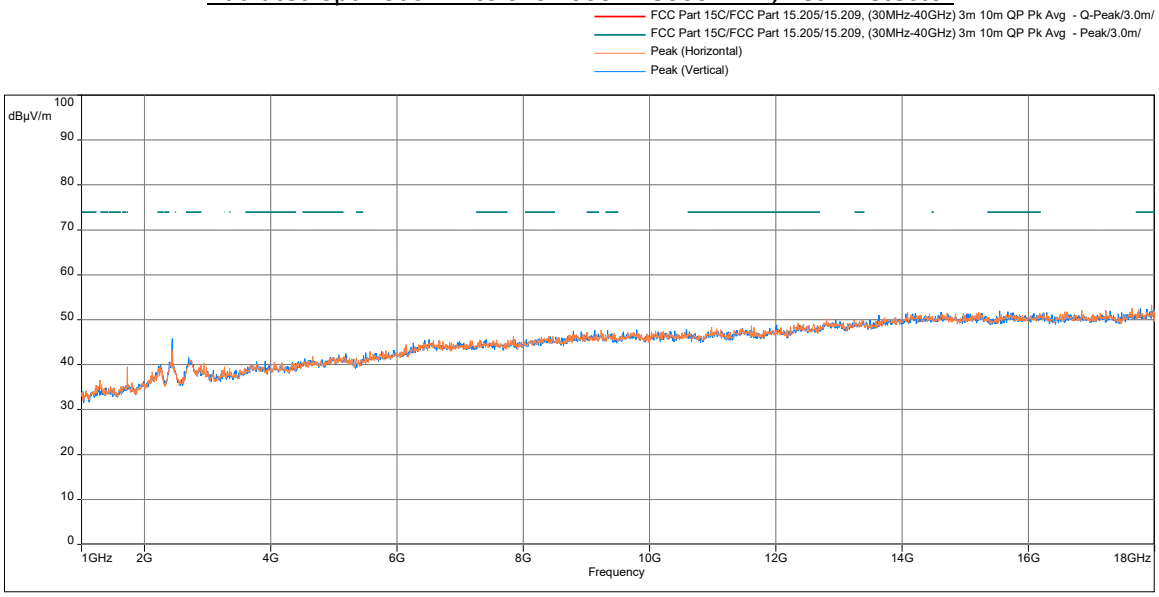


Radiated Spurious Emissions 30 MHz to 1000 MHz

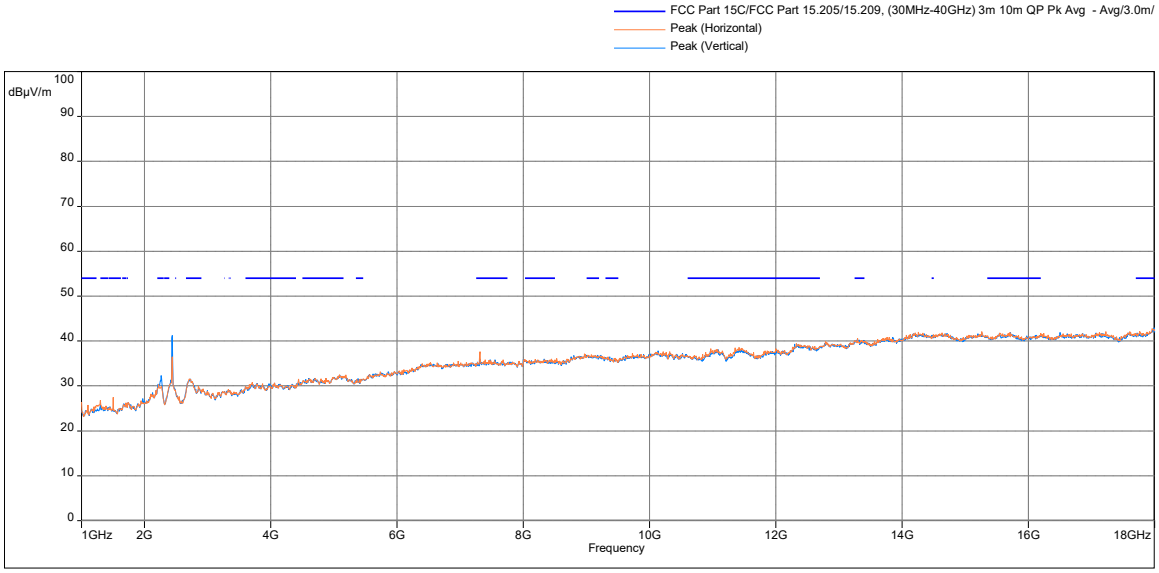


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
132.626	20.57	43.50	-22.93	128.34	Vertical	-15.10
127.162	20.08	43.50	-23.42	167.22	Vertical	-15.77
124.963	20.00	43.50	-23.50	170.82	Vertical	-15.90
608.152	22.06	46.00	-23.94	113.51	Vertical	-6.44
612.808	21.93	46.00	-24.07	323.46	Horizontal	-6.16
608.346	21.63	46.00	-24.37	76.93	Horizontal	-6.42

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



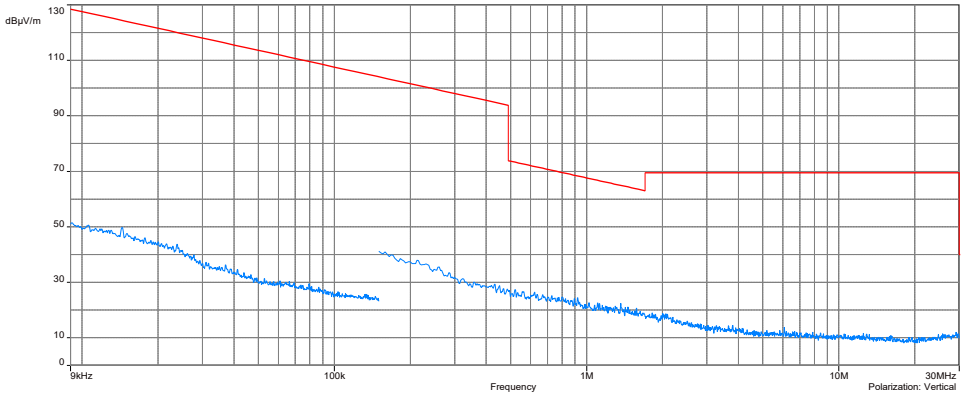
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17818.67	Peak	52.57	74.00	-21.43	237.13	Horizontal	3.41
17988.67	Peak	52.14	74.00	-21.86	81.47	Vertical	3.71
15613.77	Peak	51.75	74.00	-22.25	247.43	Vertical	3.88
17972.23	Average	43.00	54.00	-11.00	74.77	Horizontal	3.71
17963.17	Average	42.58	54.00	-11.42	0.00	Vertical	3.72
11406.83	Average	38.62	54.00	-15.38	0.00	Vertical	3.51

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

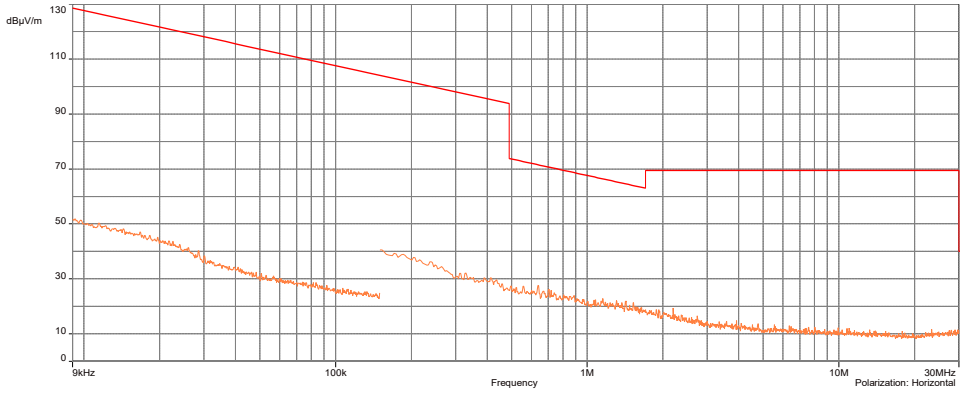
Test Results: 15.209 Radiated Spurious Emissions Mid Channel
Tx at 802.11b, 2437MHz, Battery Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

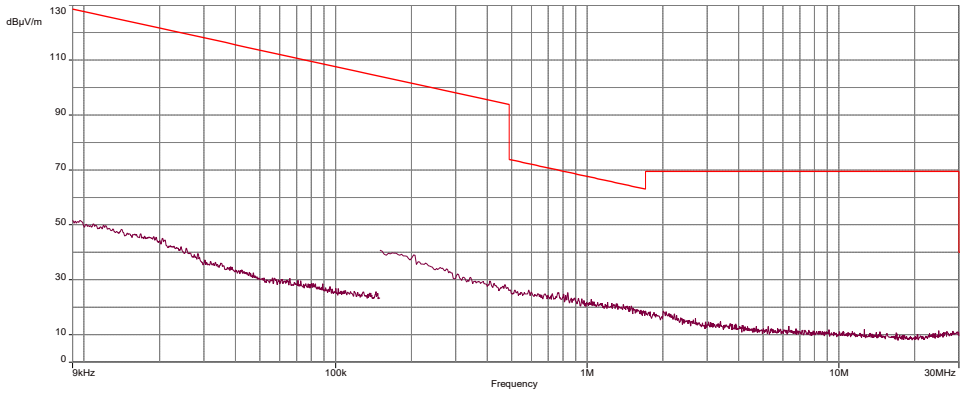
Antenna Position - Coaxial



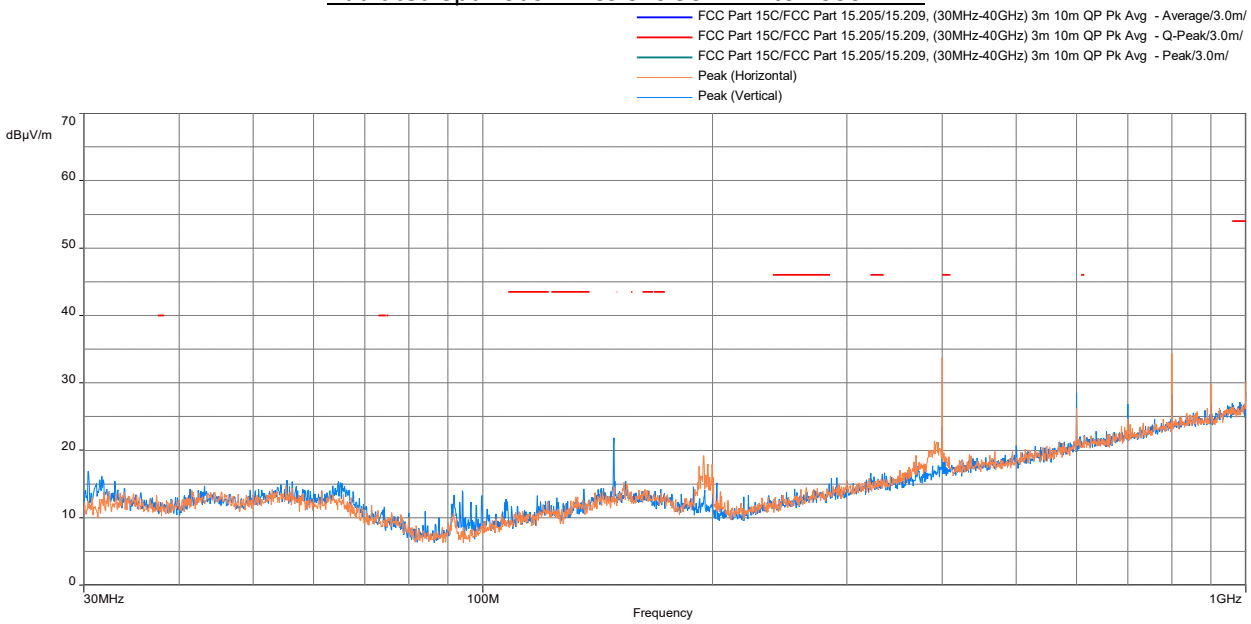
Antenna Position - Coplanar



Antenna Position - Horizontal

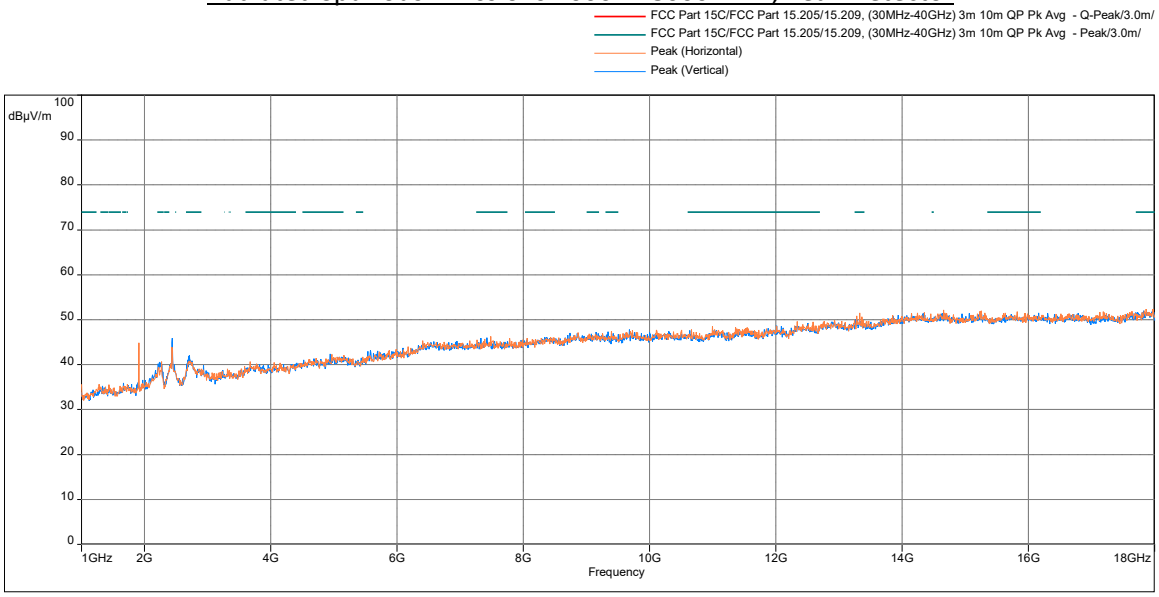


Radiated Spurious Emissions 30 MHz to 1000 MHz

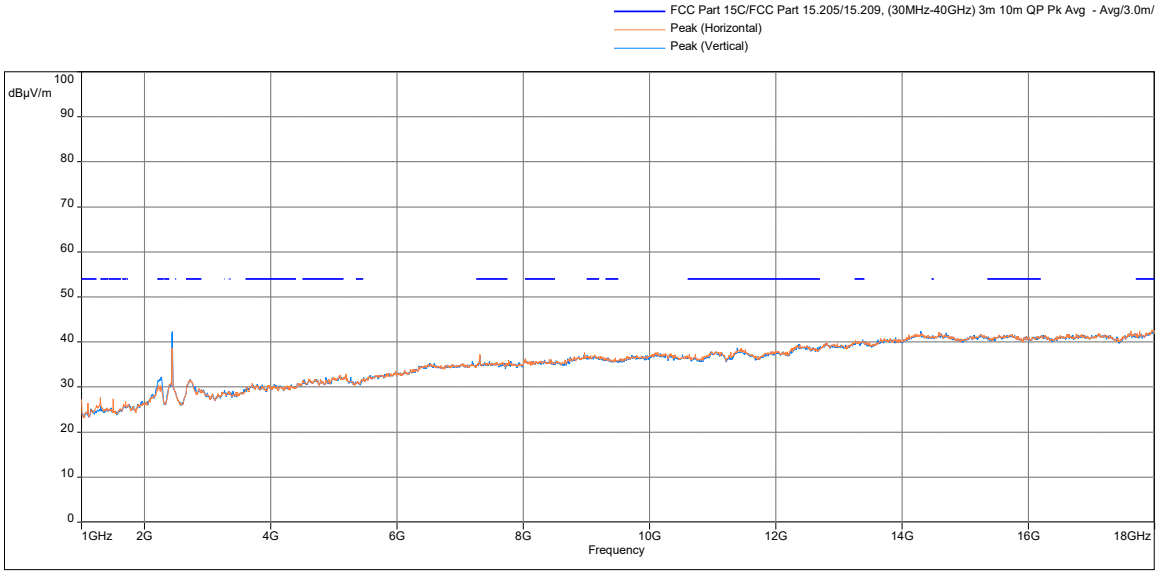


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
399.990	33.73	46.00	-12.27	343.85	Horizontal	-10.44
400.023	23.45	46.00	-22.55	158.00	Vertical	-10.44
1000.000	30.21	54.00	-23.79	62.10	Horizontal	0.54
608.734	21.36	46.00	-24.64	196.09	Vertical	-6.38
1000.000	28.68	54.00	-25.32	226.55	Vertical	0.54
402.254	19.64	46.00	-26.36	338.29	Horizontal	-10.44

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



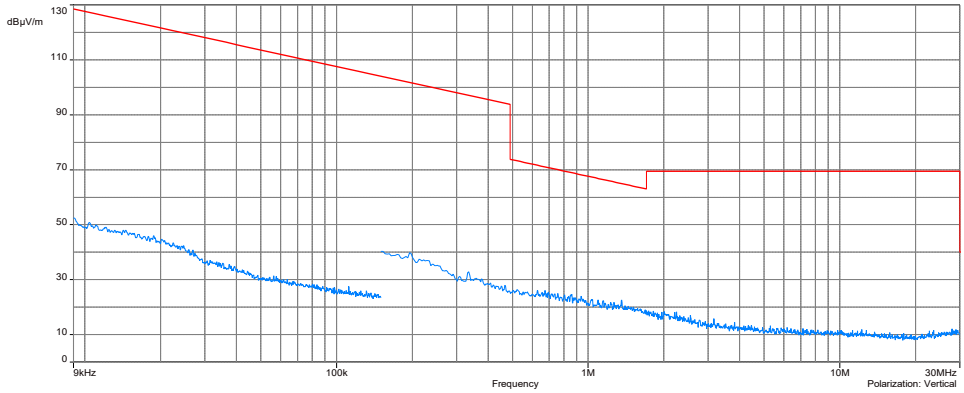
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17818.67	Peak	52.57	74.00	-21.43	237.13	Horizontal	3.41
17988.67	Peak	52.14	74.00	-21.86	81.47	Vertical	3.71
15613.77	Peak	51.75	74.00	-22.25	247.43	Vertical	3.88
17972.23	Average	43.00	54.00	-11.00	74.77	Horizontal	3.71
17963.17	Average	42.58	54.00	-11.42	0.00	Vertical	3.72
11406.83	Average	38.62	54.00	-15.38	0.00	Vertical	3.51

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

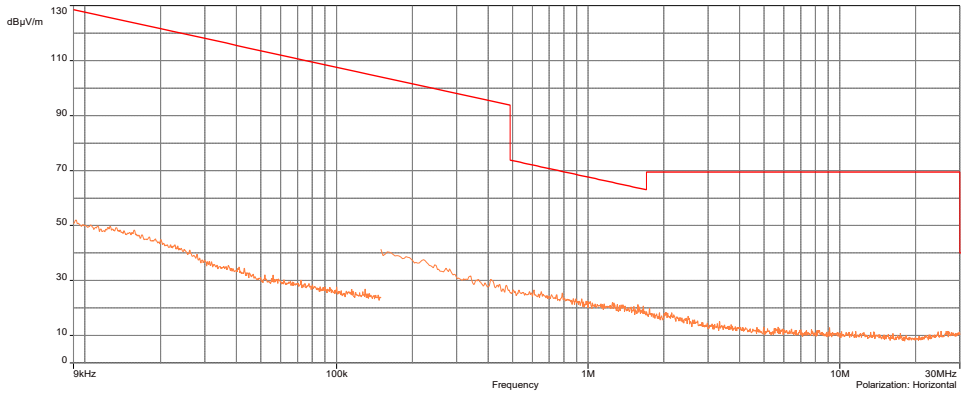
Test Results: 15.209 Radiated Spurious Emissions High Channel
Tx at 802.11b, 2462MHz, Charging Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

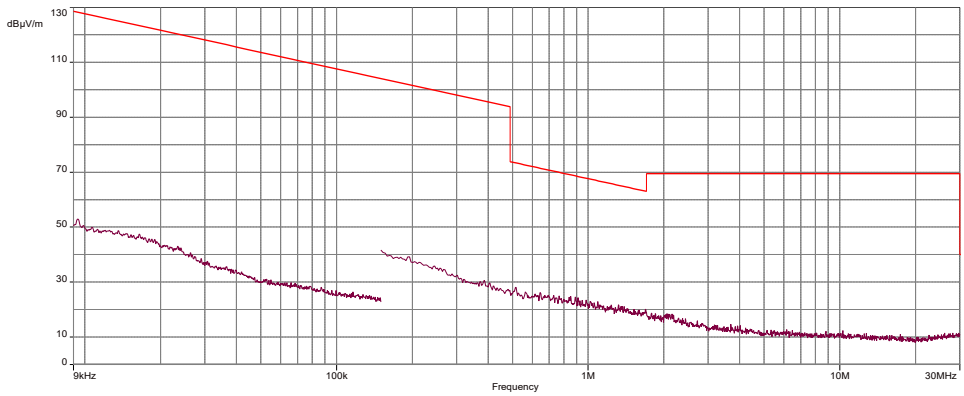
Antenna Position - Coaxial



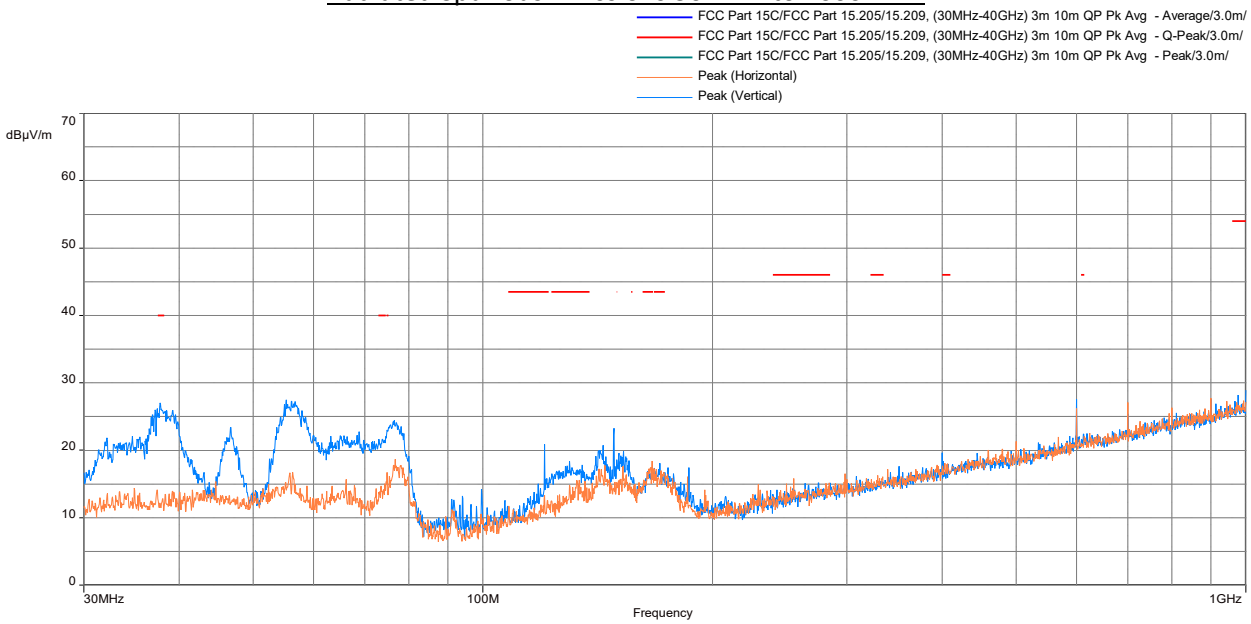
Antenna Position - Coplanar



Antenna Position - Horizontal

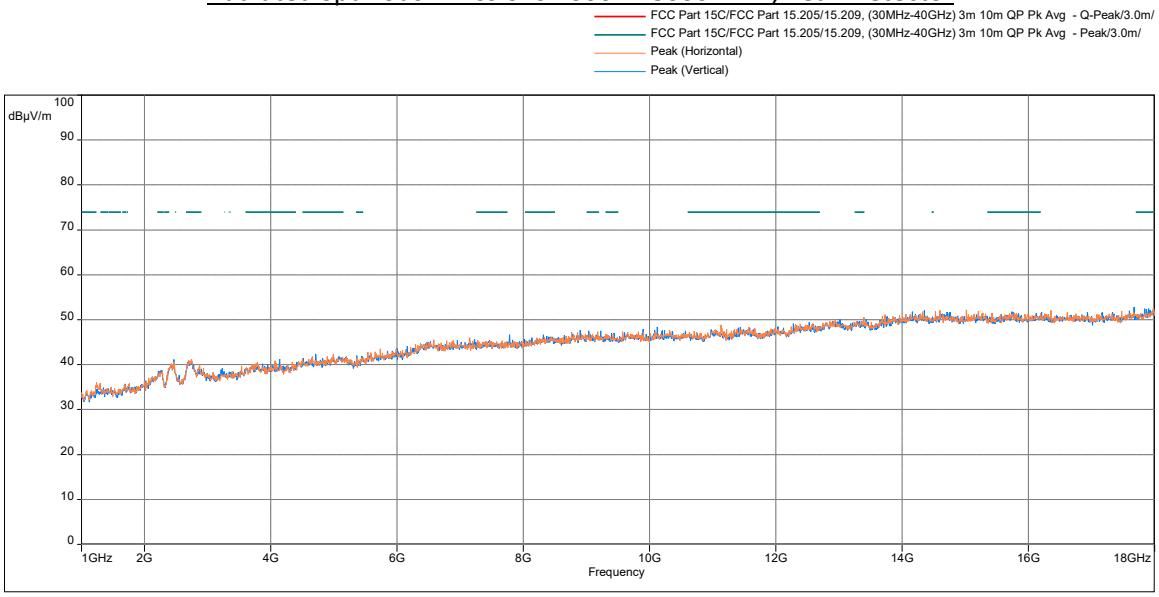


Radiated Spurious Emissions 30 MHz to 1000 MHz

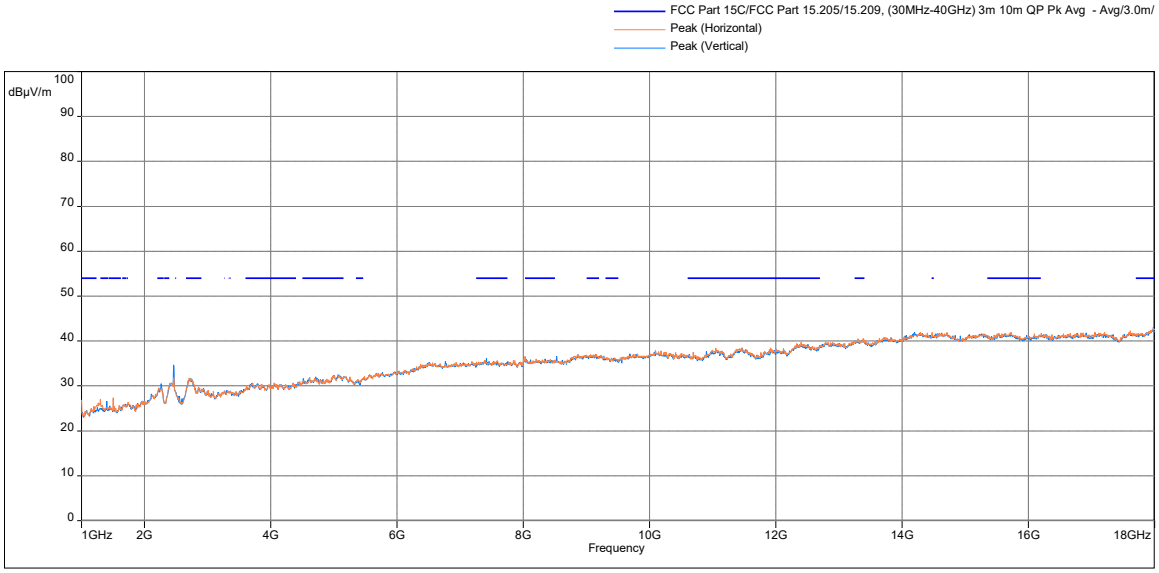


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
37.760	27.03	40.00	-12.97	354.41	Vertical	-14.10
120.501	20.91	43.50	-22.59	122.72	Vertical	-16.22
74.911	16.75	40.00	-23.25	195.59	Horizontal	-17.12
612.647	22.41	46.00	-23.59	322.74	Vertical	-6.18
613.552	22.34	46.00	-23.66	39.35	Vertical	-6.14
608.831	21.64	46.00	-24.36	33.73	Vertical	-6.37

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



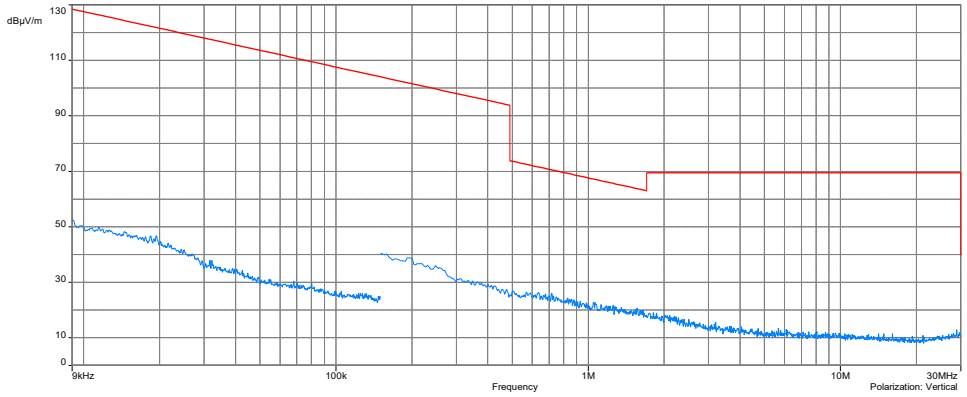
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17818.67	Peak	52.57	74.00	-21.43	237.13	Horizontal	3.41
17988.67	Peak	52.14	74.00	-21.86	81.47	Vertical	3.71
15613.77	Peak	51.75	74.00	-22.25	247.43	Vertical	3.88
17972.23	Average	43.00	54.00	-11.00	74.77	Horizontal	3.71
17963.17	Average	42.58	54.00	-11.42	0.00	Vertical	3.72
11406.83	Average	38.62	54.00	-15.38	0.00	Vertical	3.51

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

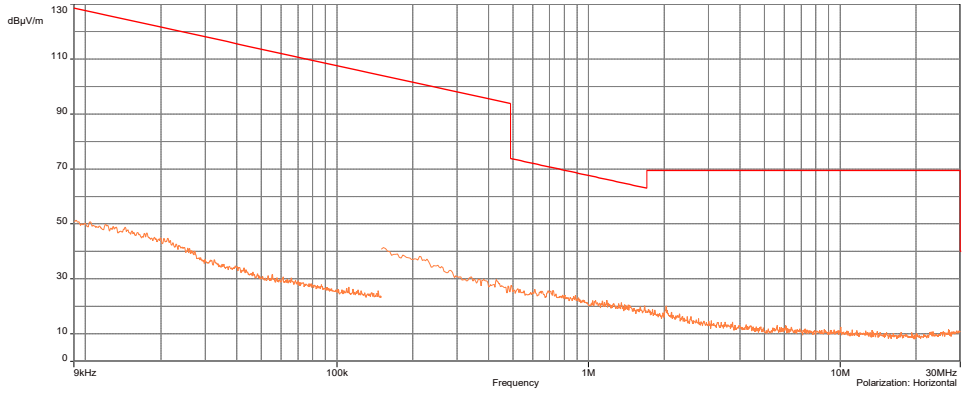
Test Results: 15.209 Radiated Spurious Emissions High Channel
Tx at 802.11b, 2462MHz, Battery Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

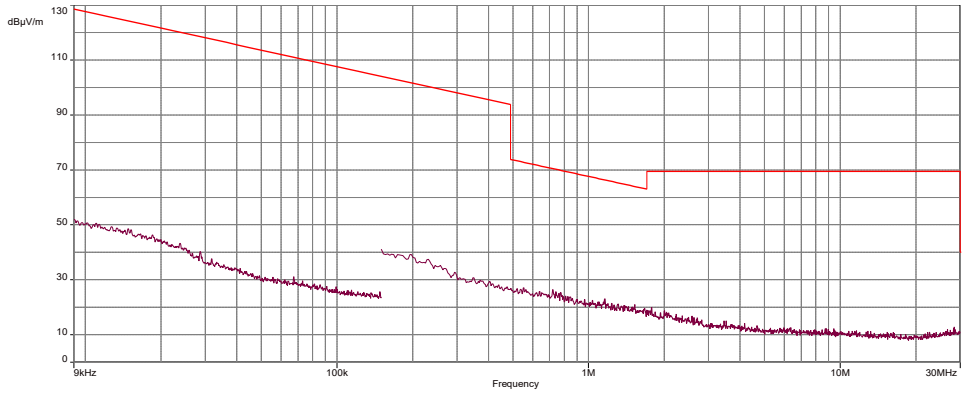
Antenna Position - Coaxial



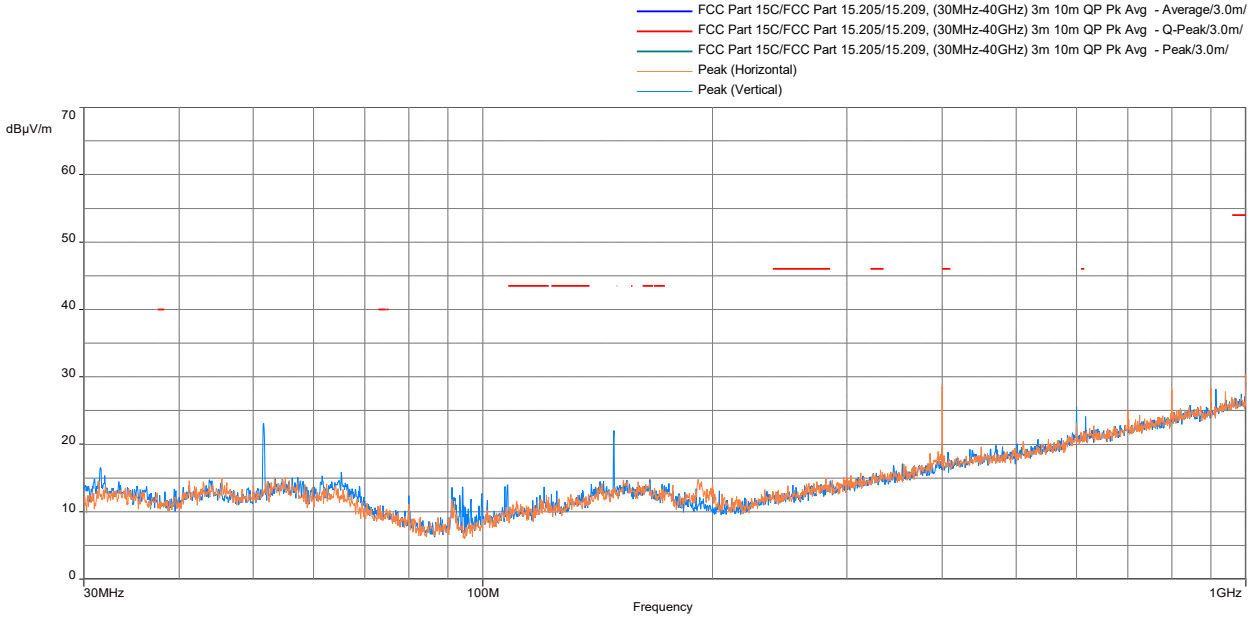
Antenna Position - Coplanar



Antenna Position - Horizontal

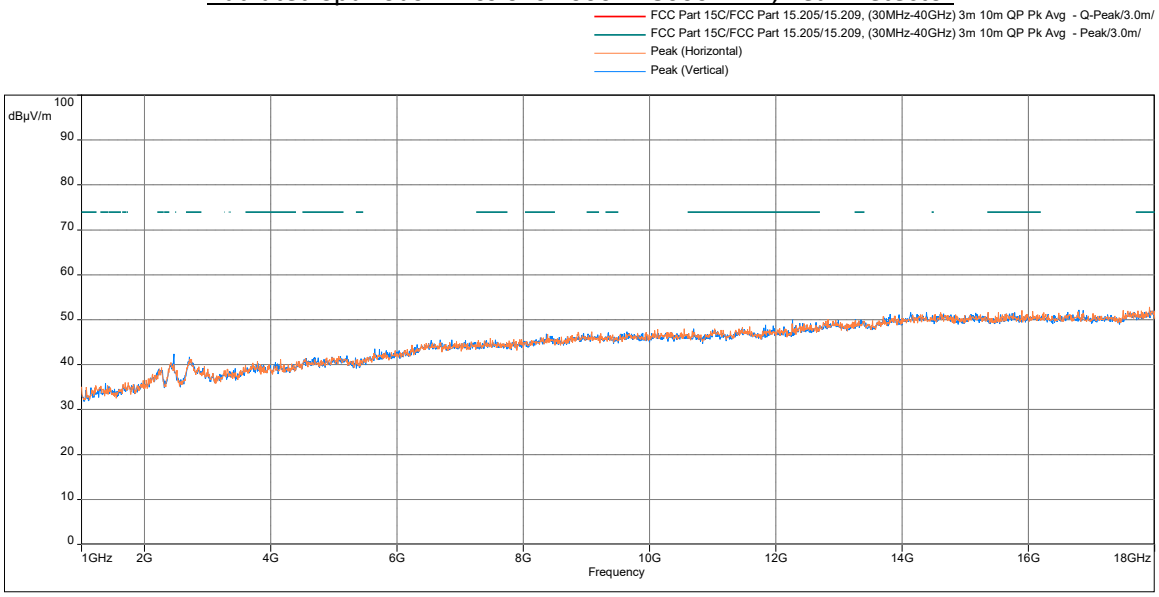


Radiated Spurious Emissions 30 MHz to 1000 MHz

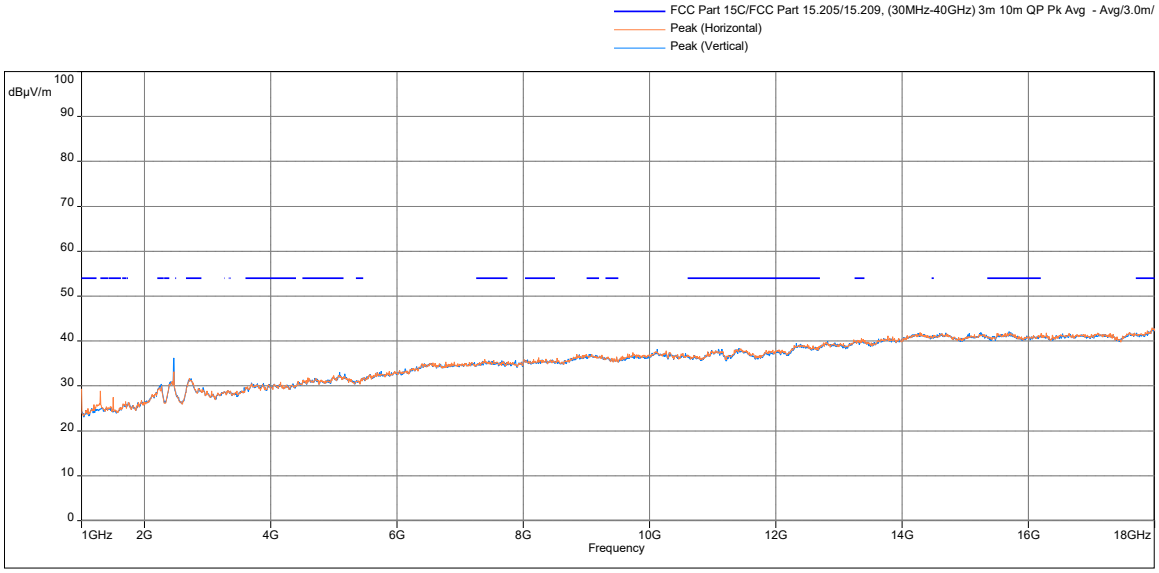


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
399.990	28.81	46.00	-17.19	334.69	Horizontal	-10.44
1000.000	30.42	54.00	-23.58	202.79	Horizontal	0.54
613.099	21.95	46.00	-24.05	273.35	Horizontal	-6.14
608.217	21.81	46.00	-24.19	58.86	Horizontal	-6.43
612.356	21.58	46.00	-24.42	252.90	Horizontal	-6.21
609.640	21.27	46.00	-24.73	232.38	Vertical	-6.35

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



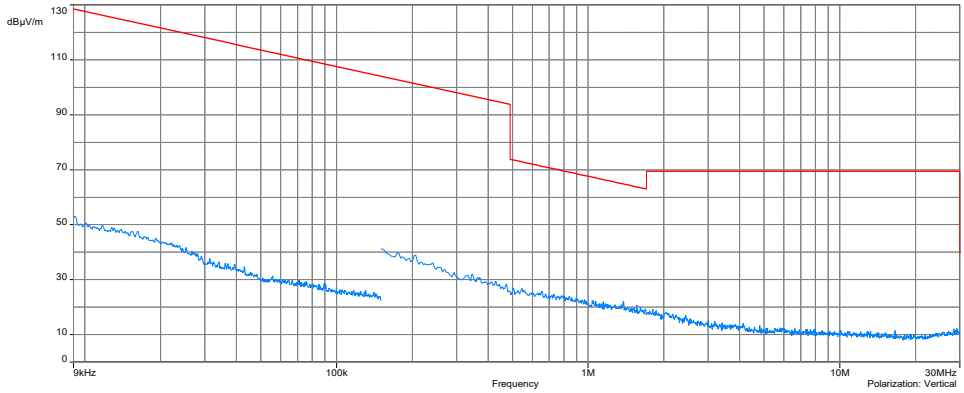
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17818.67	Peak	52.57	74.00	-21.43	237.13	Horizontal	3.41
17988.67	Peak	52.14	74.00	-21.86	81.47	Vertical	3.71
15613.77	Peak	51.75	74.00	-22.25	247.43	Vertical	3.88
17972.23	Average	43.00	54.00	-11.00	74.77	Horizontal	3.71
17963.17	Average	42.58	54.00	-11.42	0.00	Vertical	3.72
11406.83	Average	38.62	54.00	-15.38	0.00	Vertical	3.51

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

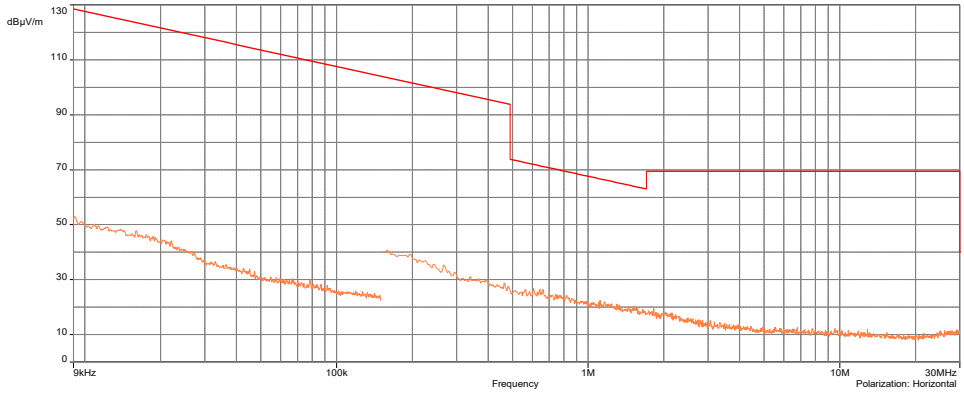
Test Results: 15.209 Radiated Spurious Emissions Low Channel
Tx at 802.11g, 2412MHz, Charging Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

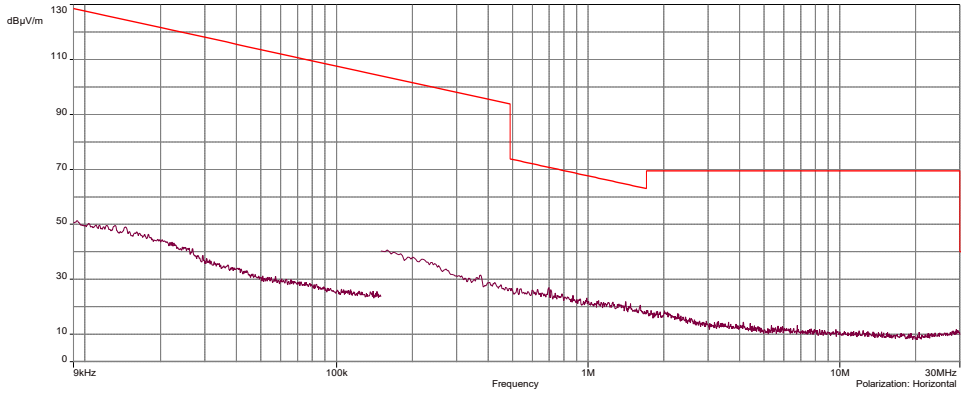
Antenna Position - Coaxial



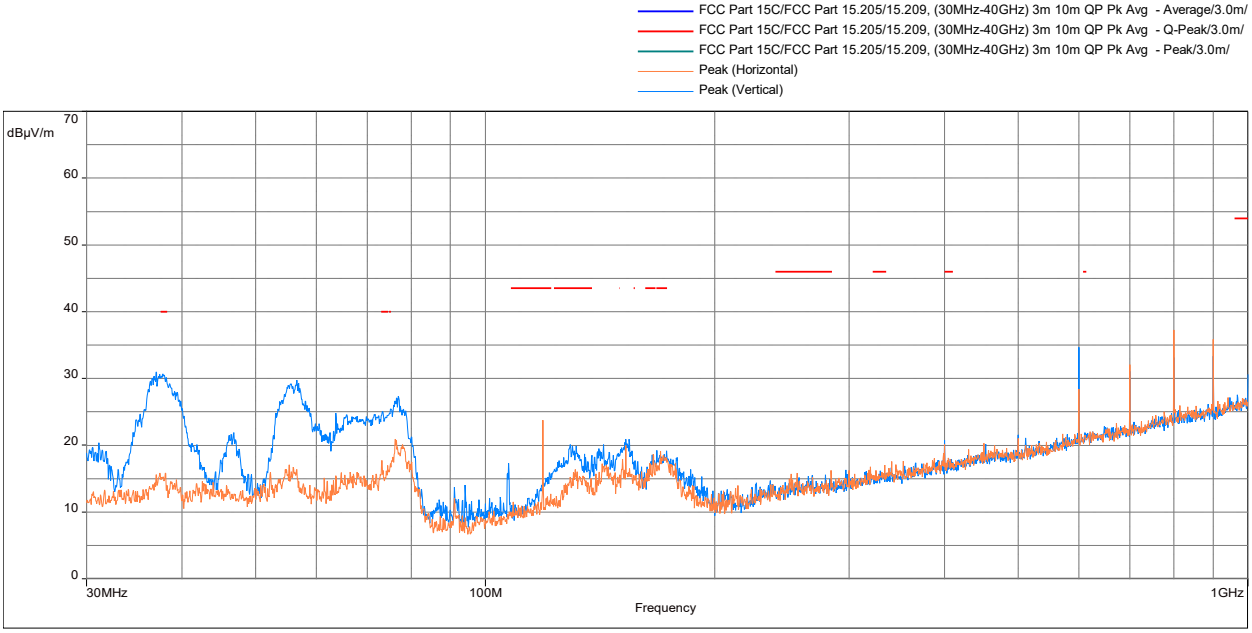
Antenna Position - Coplanar



Antenna Position - Horizontal

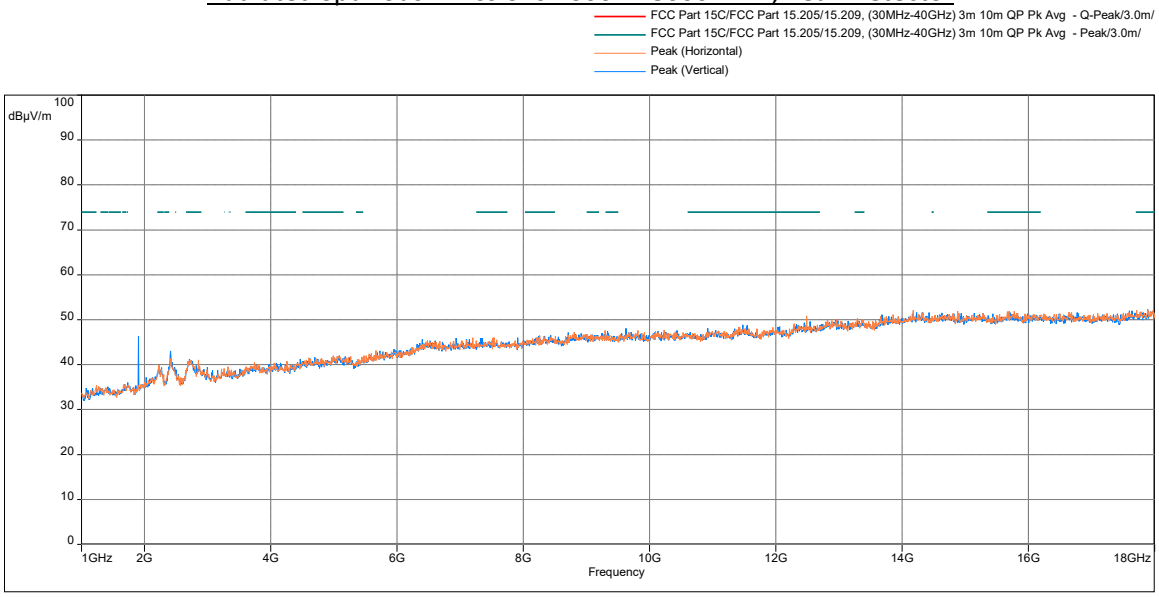


Radiated Spurious Emissions 30 MHz to 1000 MHz

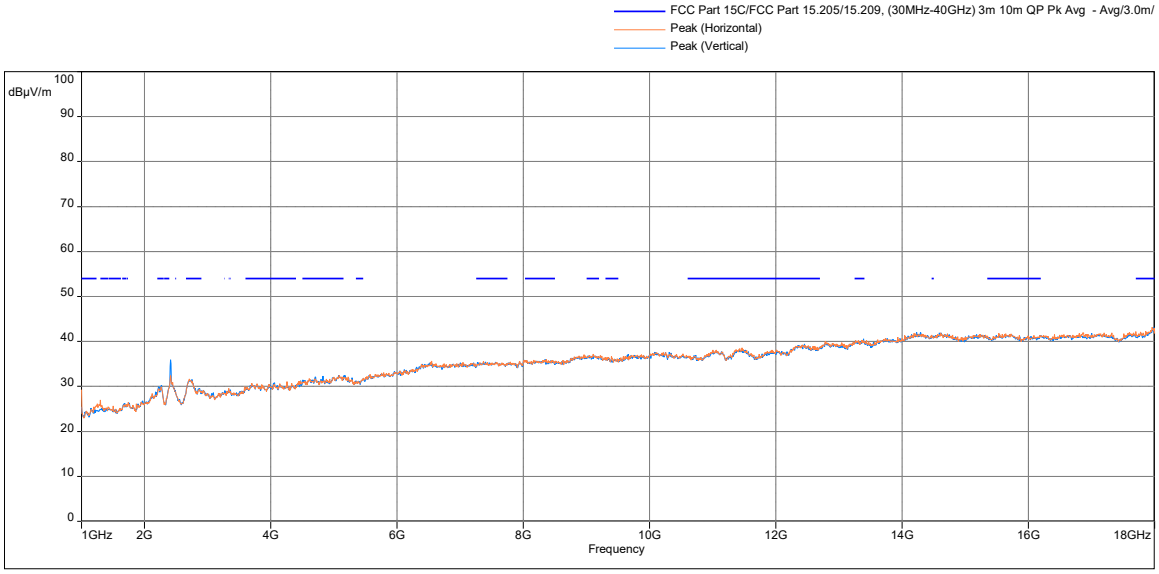


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
118.981	23.76	43.50	-19.74	0.11	Horizontal	-16.33
73.197	17.69	40.00	-22.31	212.00	Horizontal	-16.62
129.296	20.13	43.50	-23.37	174.06	Vertical	-15.55
1000.000	30.62	54.00	-23.38	171.25	Vertical	0.54
131.624	19.89	43.50	-23.61	147.20	Vertical	-15.24
130.201	19.84	43.50	-23.66	147.20	Vertical	-15.45

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



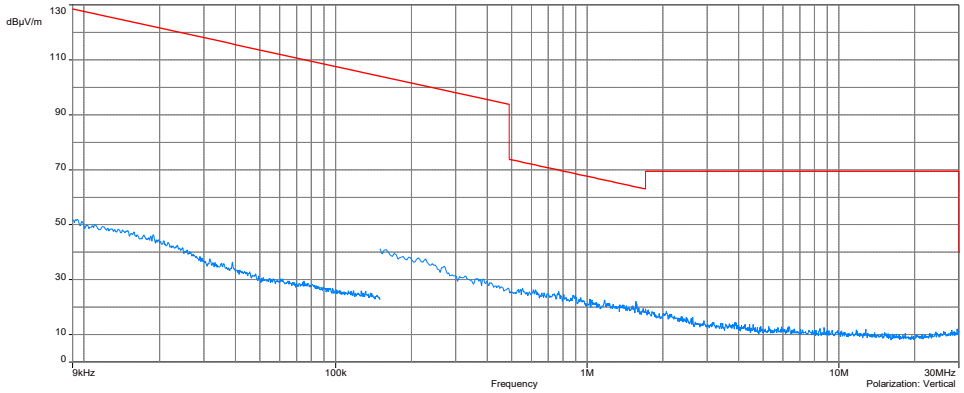
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17895.17	Peak	52.32	74.00	-21.68	1.76	Vertical	3.58
17894.03	Peak	52.11	74.00	-21.89	228.78	Horizontal	3.58
15692.53	Peak	51.95	74.00	-22.05	271.76	Horizontal	4.06
17986.40	Average	43.19	54.00	-10.81	101.34	Vertical	3.71
17960.33	Average	43.12	54.00	-10.88	121.13	Horizontal	3.72
11465.20	Average	38.56	54.00	-15.44	0.00	Horizontal	3.32

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

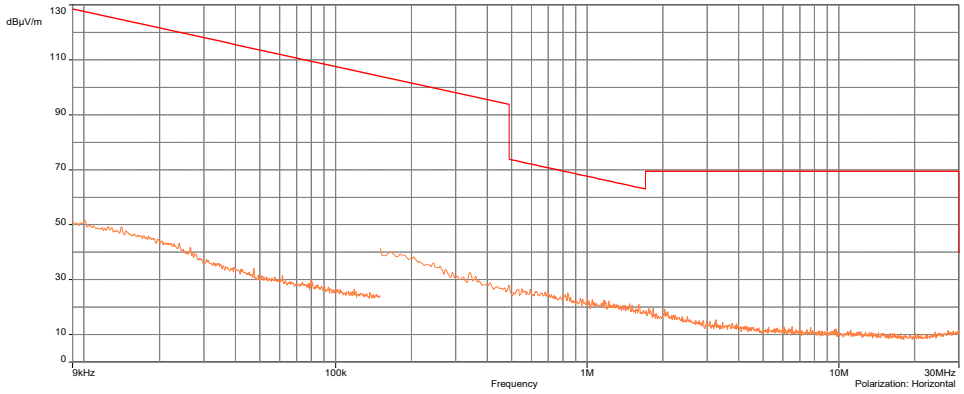
Test Results: 15.209 Radiated Spurious Emissions Low Channel
Tx at 802.11g, 2412MHz, Battery Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

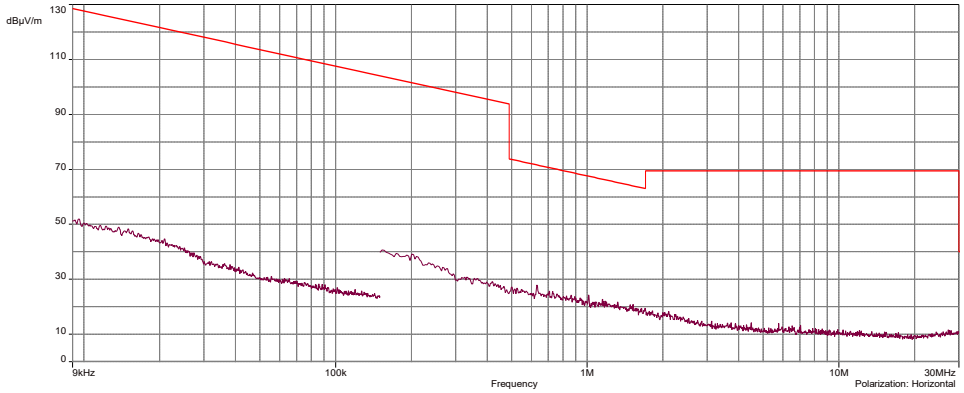
Antenna Position - Coaxial



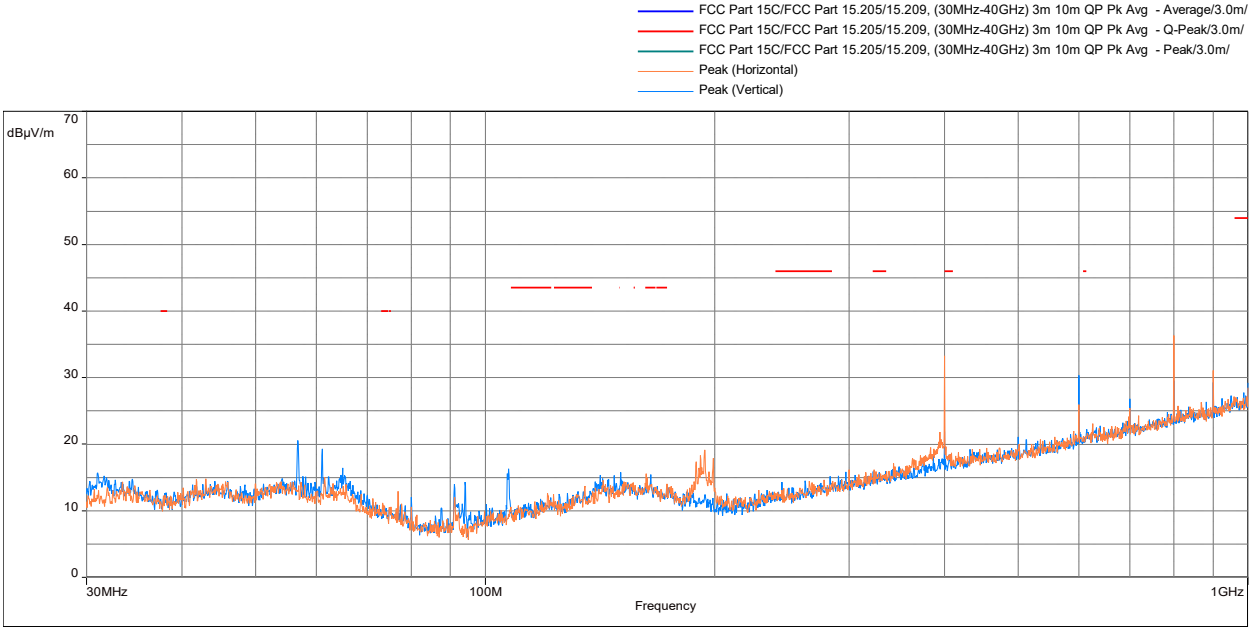
Antenna Position - Coplanar



Antenna Position - Horizontal

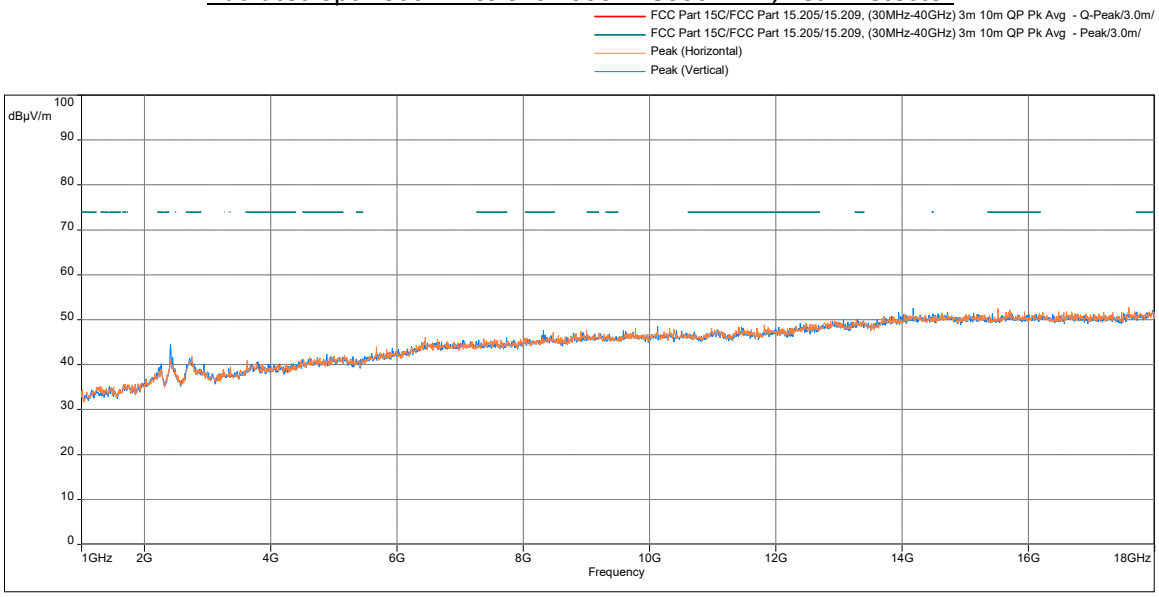


Radiated Spurious Emissions 30 MHz to 1000 MHz

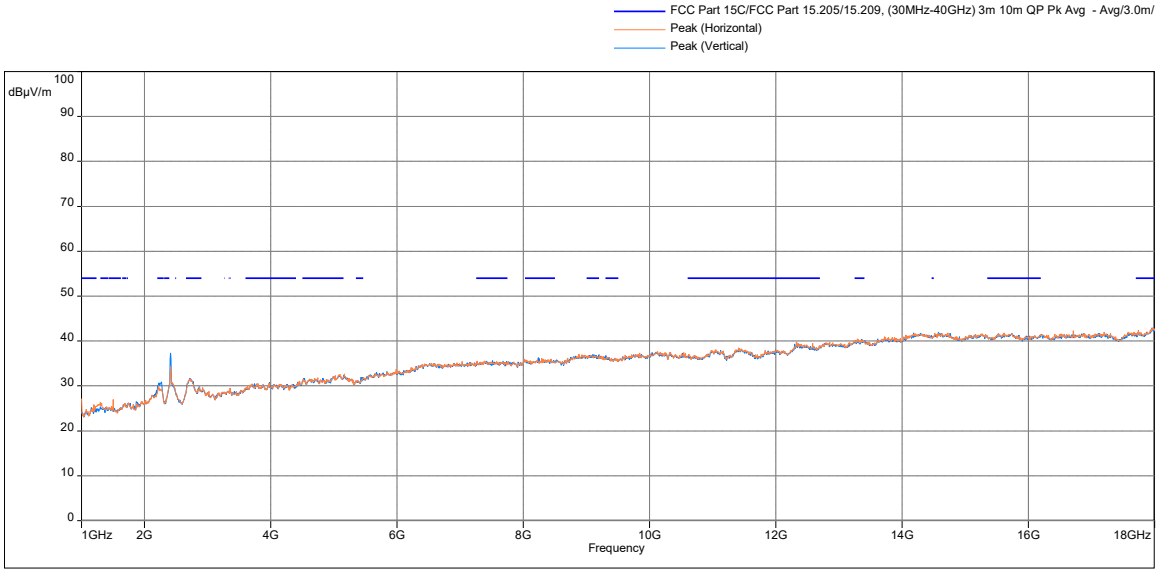


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
399.990	33.26	46.00	-12.74	351.90	Horizontal	-10.44
399.990	21.88	46.00	-24.12	257.80	Vertical	-10.44
1000.000	29.20	54.00	-24.80	165.20	Vertical	0.54
1000.000	28.48	54.00	-25.52	153.90	Horizontal	0.54
400.249	20.26	46.00	-25.74	339.08	Horizontal	-10.44
987.681	27.75	54.00	-26.25	86.65	Vertical	0.29

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



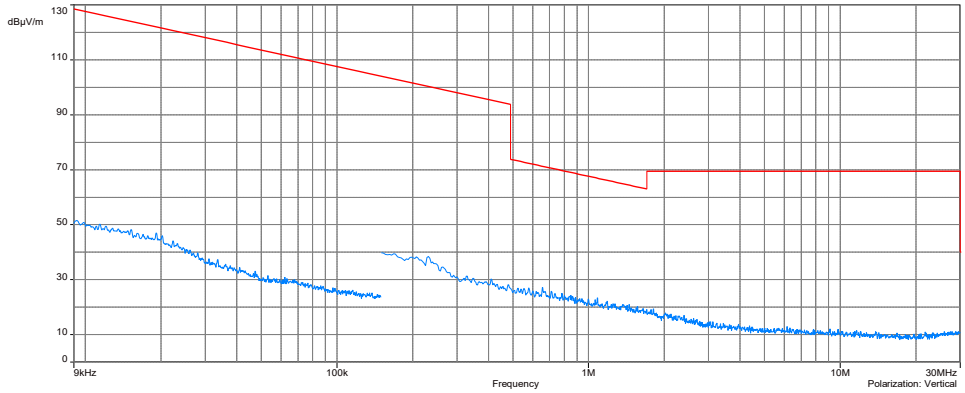
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
15521.40	Peak	52.51	74.00	-21.49	12.75	Horizontal	3.90
17968.27	Peak	52.07	74.00	-21.93	64.77	Vertical	3.71
17911.60	Peak	51.85	74.00	-22.15	337.42	Horizontal	3.62
17961.47	Average	43.00	54.00	-11.00	10.46	Vertical	3.72
17998.30	Average	42.99	54.00	-11.01	0.00	Horizontal	3.71
11409.10	Average	38.50	54.00	-15.50	0.00	Horizontal	3.50

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

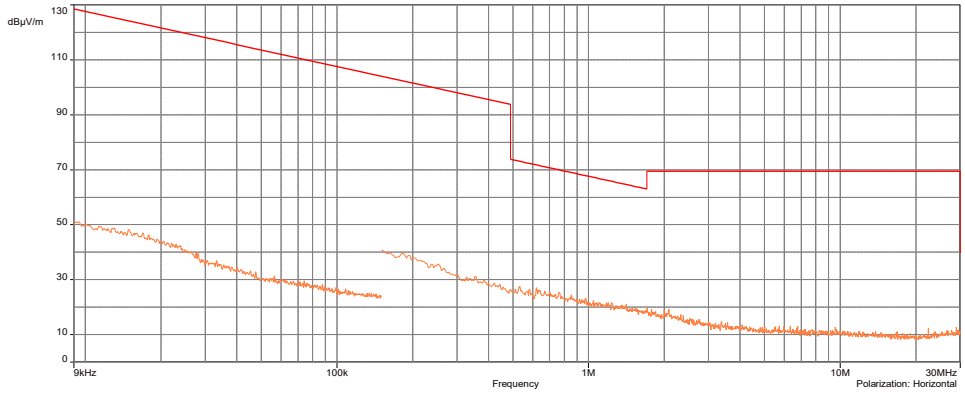
Test Results: 15.209 Radiated Spurious Emissions Mid Channel
Tx at 802.11g, 2437MHz, Charging Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

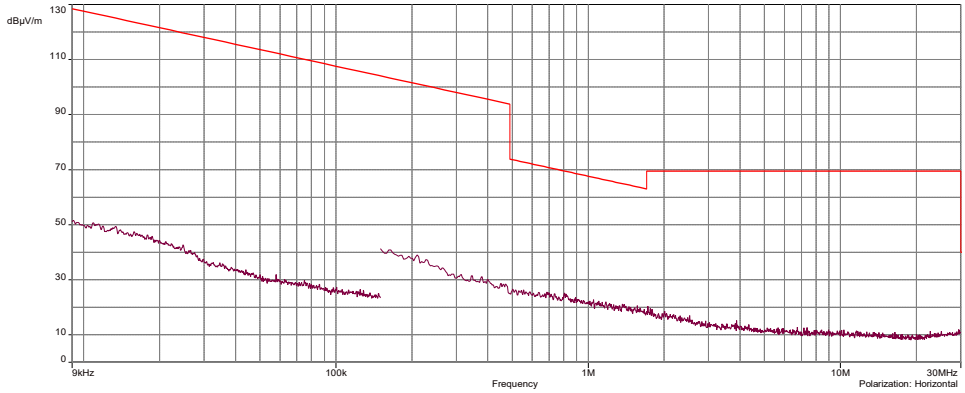
Antenna Position - Coaxial



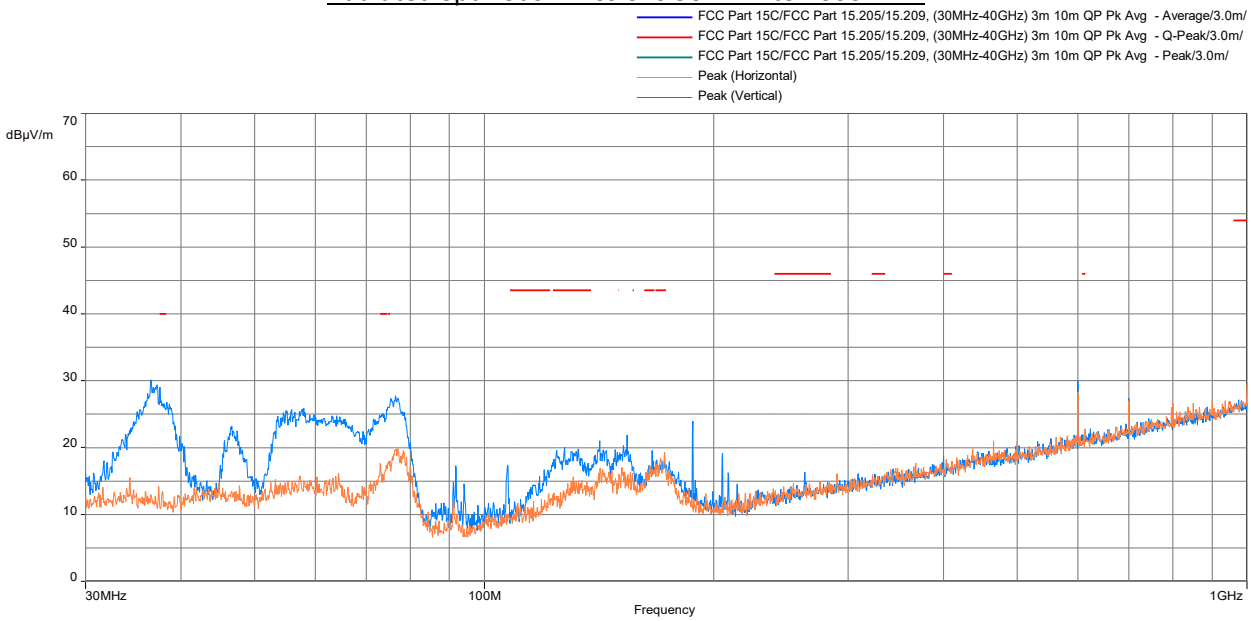
Antenna Position - Coplanar



Antenna Position - Horizontal

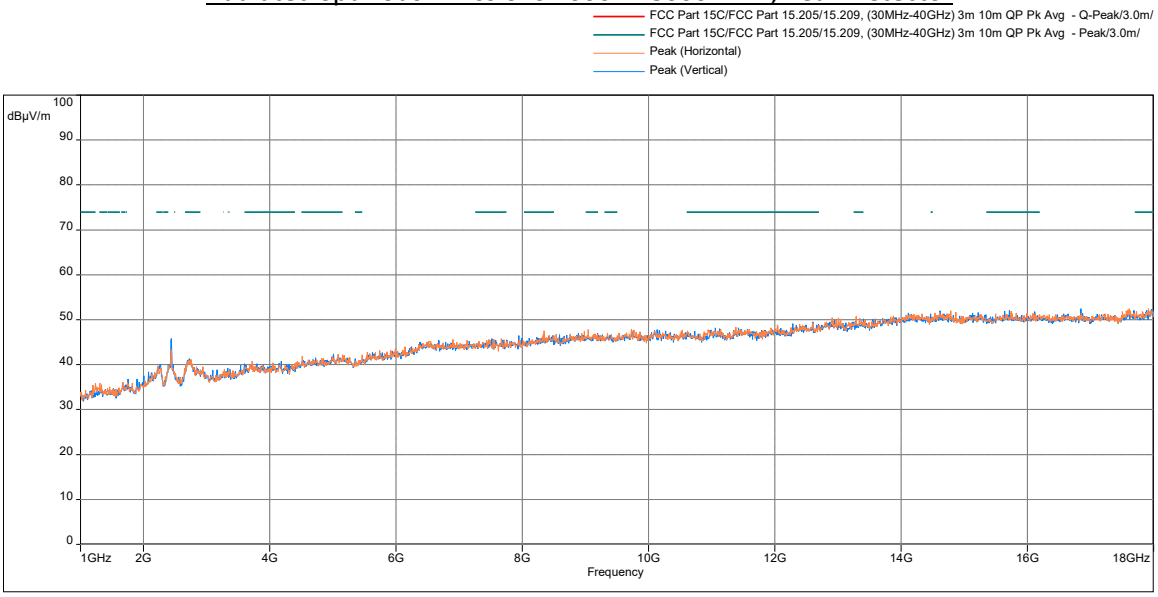


Radiated Spurious Emissions 30 MHz to 1000 MHz

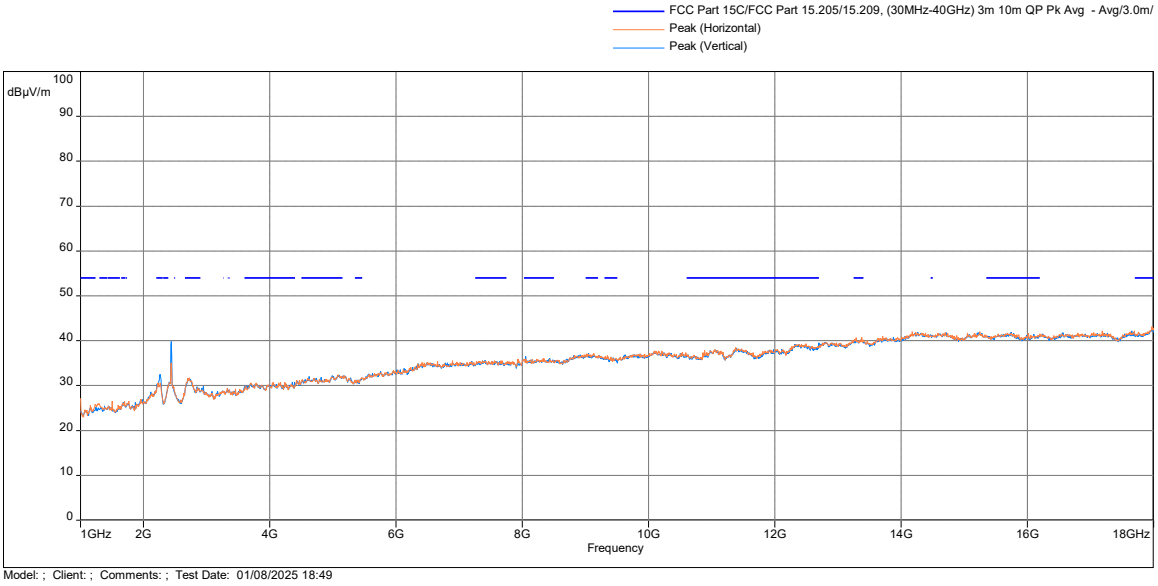


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
73.068	17.66	40.00	-22.34	195.59	Horizontal	-16.59
613.326	22.74	46.00	-23.26	214.02	Horizontal	-6.14
127.420	20.09	43.50	-23.41	163.62	Vertical	-15.74
132.755	19.75	43.50	-23.75	133.96	Vertical	-15.09
124.478	19.62	43.50	-23.88	238.57	Vertical	-15.95
165.962	19.56	43.50	-23.94	169.24	Vertical	-13.44

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



Model: ; Client: ; Comments: ; Test Date: 01/08/2025 18:49

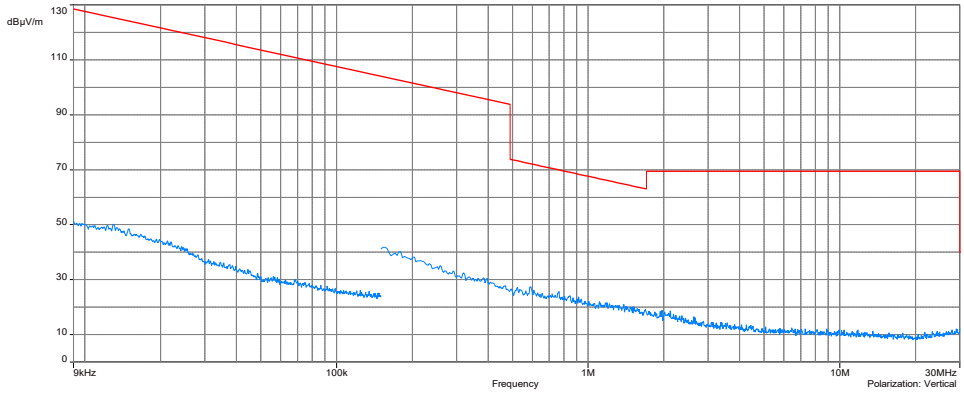
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17921.23	Peak	52.48	74.00	-21.52	249.08	Horizontal	3.65
17966.57	Peak	52.28	74.00	-21.72	0.00	Vertical	3.71
15712.37	Peak	52.08	74.00	-21.92	359.17	Vertical	4.07
17971.67	Average	43.15	54.00	-10.85	0.00	Horizontal	3.71
17974.50	Average	42.69	54.00	-11.31	286.02	Vertical	3.71
11379.07	Average	38.54	54.00	-15.46	28.40	Horizontal	3.53

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

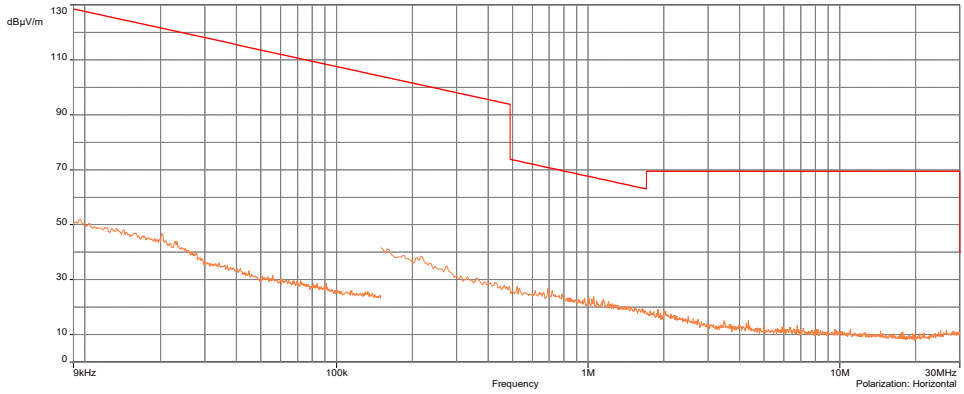
Test Results: 15.209 Radiated Spurious Emissions Mid Channel
Tx at 802.11g, 2437MHz, Battery Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

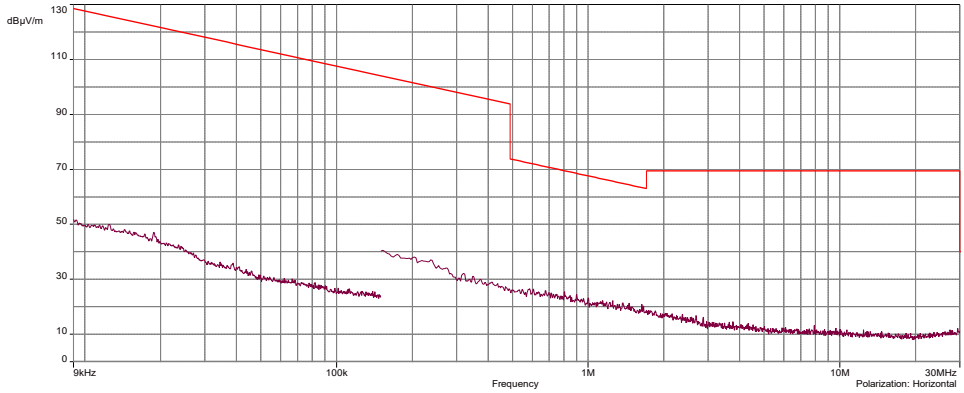
Antenna Position - Coaxial



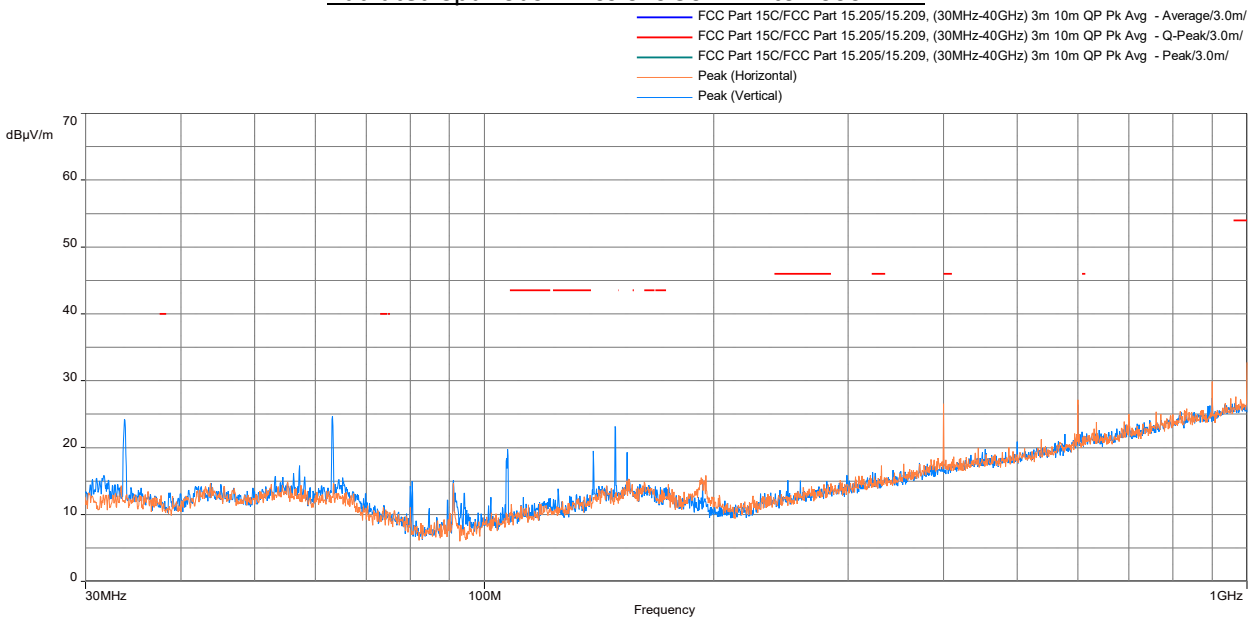
Antenna Position - Coplanar



Antenna Position - Horizontal

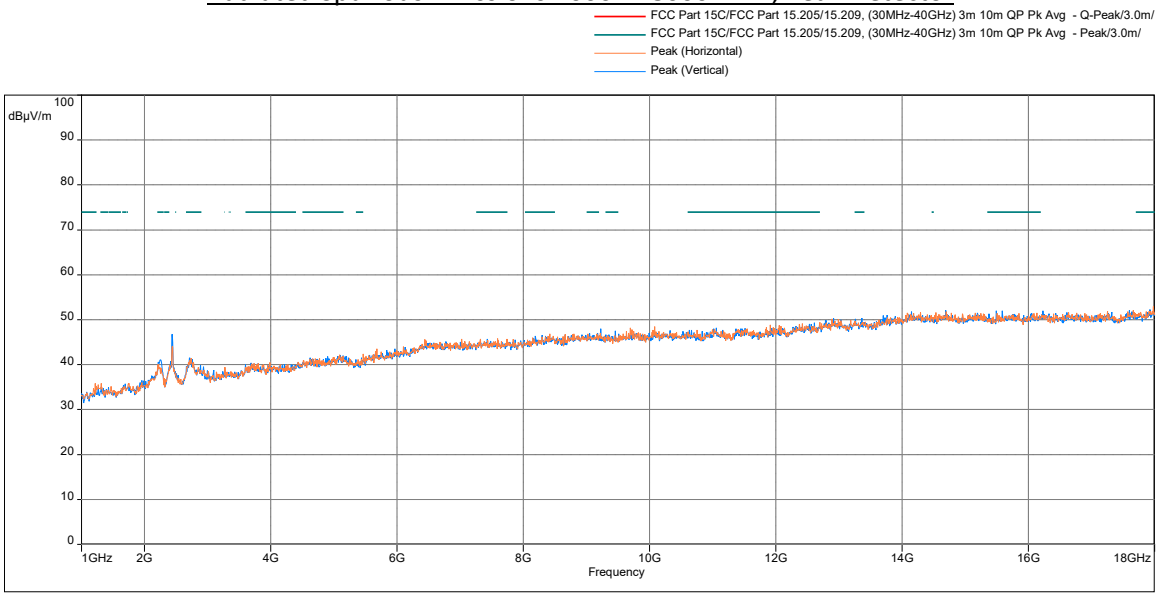


Radiated Spurious Emissions 30 MHz to 1000 MHz

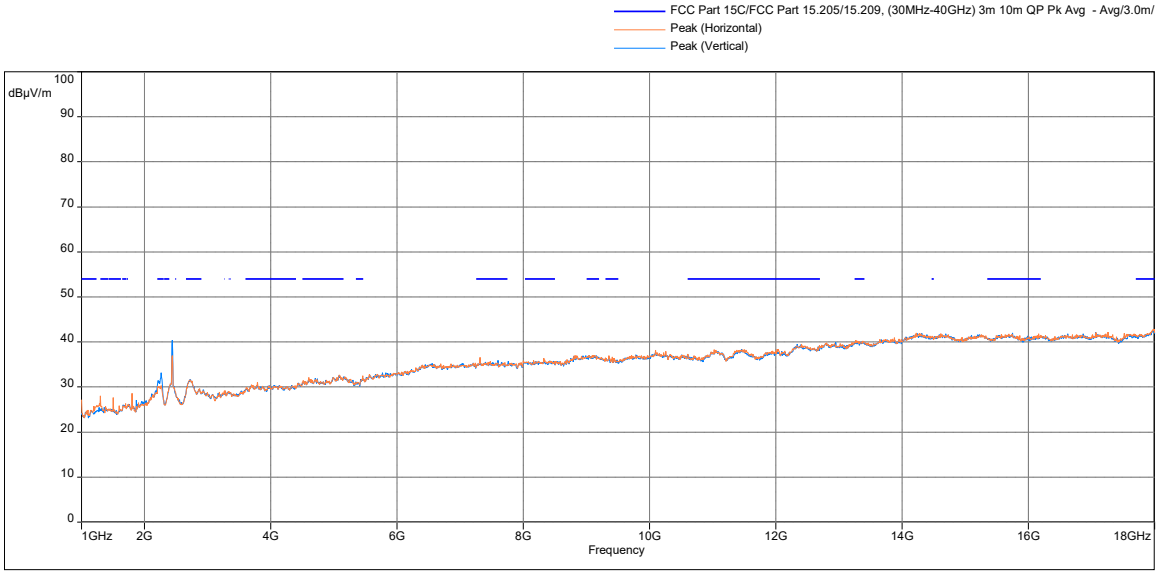


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
399.990	26.52	46.00	-19.48	344.59	Horizontal	-10.44
1000.000	32.72	54.00	-21.28	20.77	Horizontal	0.54
608.055	22.38	46.00	-23.62	109.12	Vertical	-6.45
611.547	21.78	46.00	-24.22	232.45	Horizontal	-6.25
612.356	21.70	46.00	-24.30	0.01	Vertical	-6.21
608.928	21.47	46.00	-24.53	168.30	Horizontal	-6.36

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



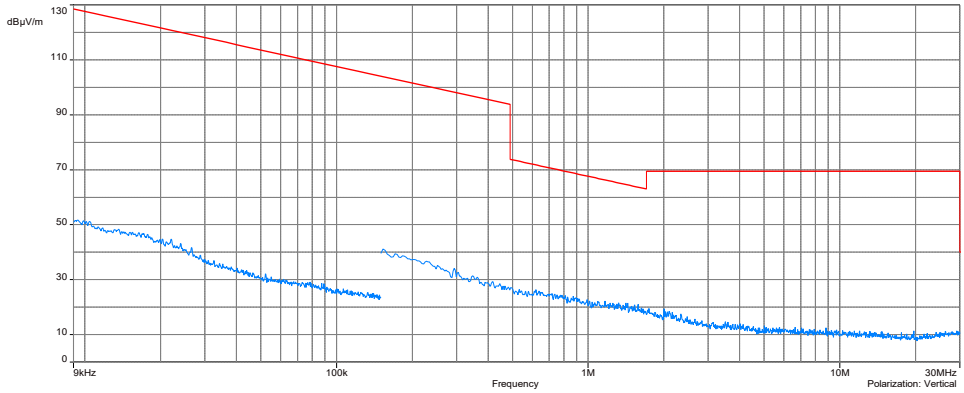
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17977.33	Peak	52.96	74.00	-21.04	336.63	Horizontal	3.71
17926.33	Peak	52.26	74.00	-21.74	182.56	Vertical	3.66
15492.50	Peak	52.04	74.00	-21.96	0.03	Vertical	3.90
17995.47	Average	42.86	54.00	-11.14	74.77	Horizontal	3.71
17973.93	Average	42.63	54.00	-11.37	239.65	Vertical	3.71
11455.00	Average	38.39	54.00	-15.61	147.71	Vertical	3.36

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

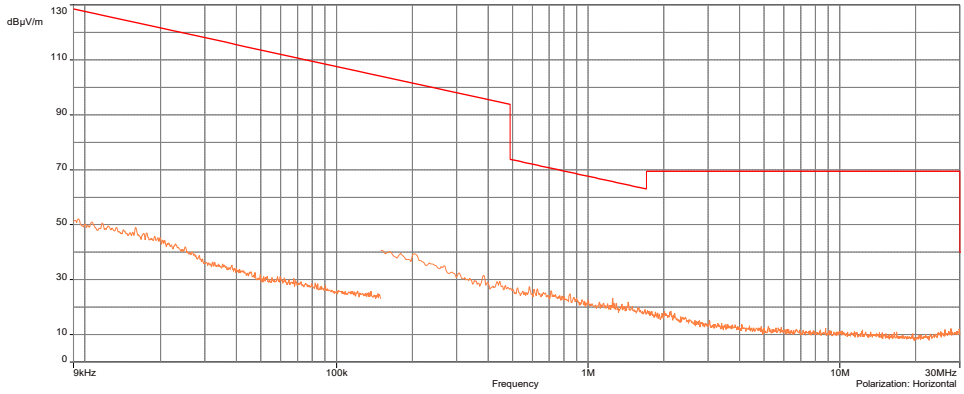
Test Results: 15.209 Radiated Spurious Emissions High Channel
Tx at 802.11g, 2462MHz, Charging Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

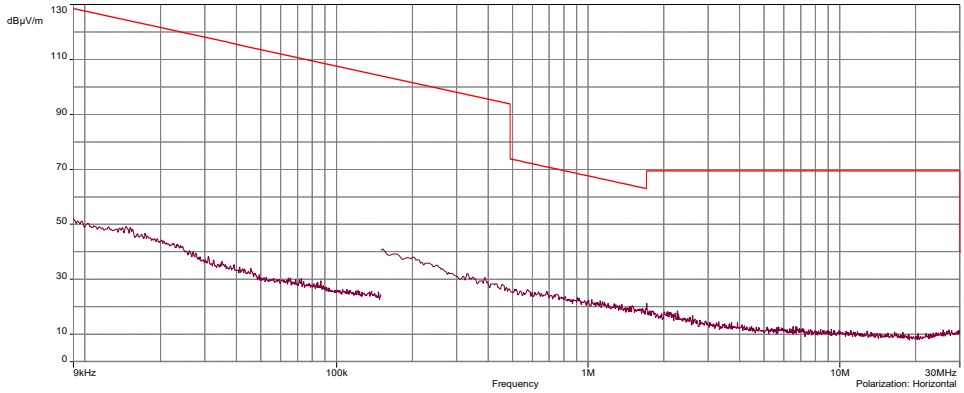
Antenna Position - Coaxial



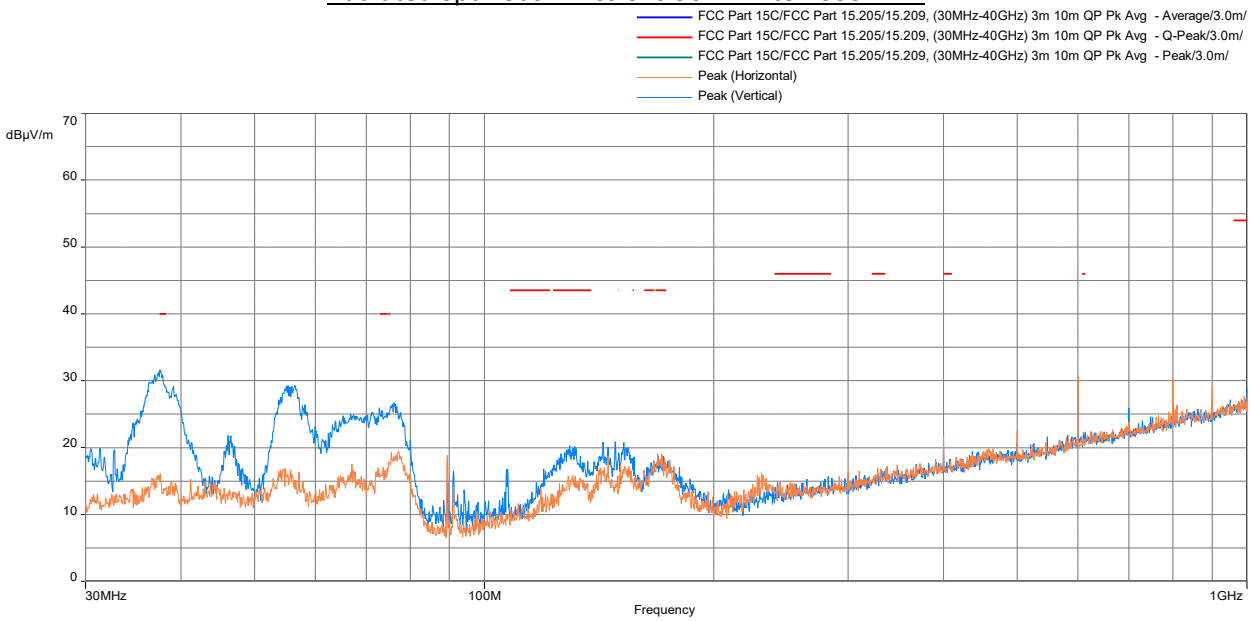
Antenna Position - Coplanar



Antenna Position - Horizontal

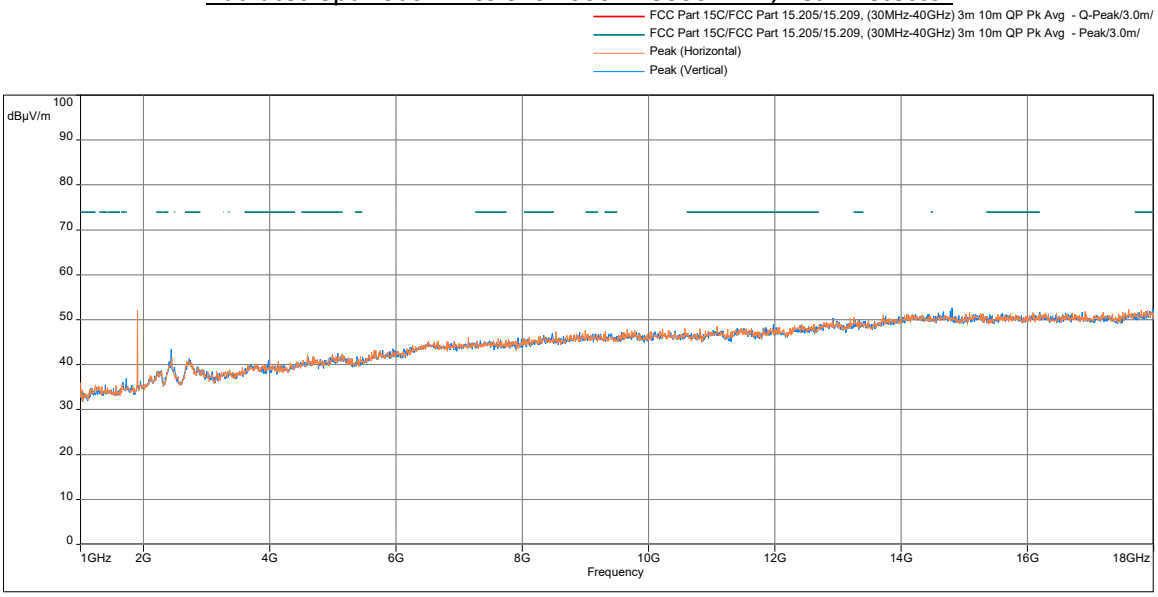


Radiated Spurious Emissions 30 MHz to 1000 MHz

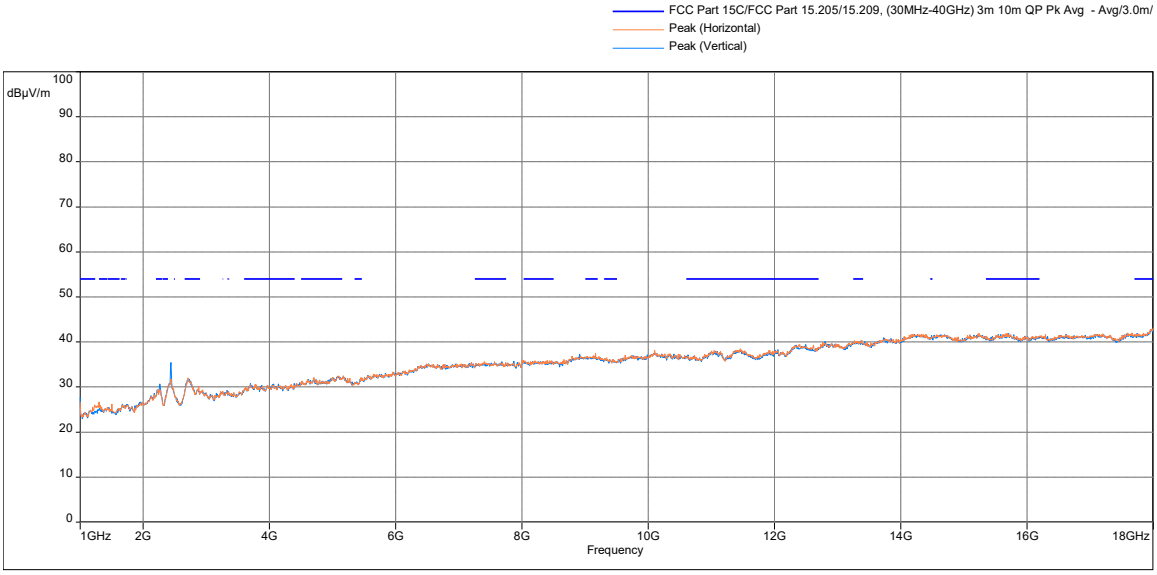


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
37.566	31.59	40.00	-8.41	150.01	Vertical	-14.10
129.425	20.27	43.50	-23.23	159.23	Vertical	-15.54
613.487	22.36	46.00	-23.64	20.91	Vertical	-6.14
610.739	22.25	46.00	-23.75	79.45	Vertical	-6.27
37.598	16.12	40.00	-23.88	212.00	Horizontal	-14.10
400.023	22.02	46.00	-23.98	110.20	Horizontal	-10.44

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



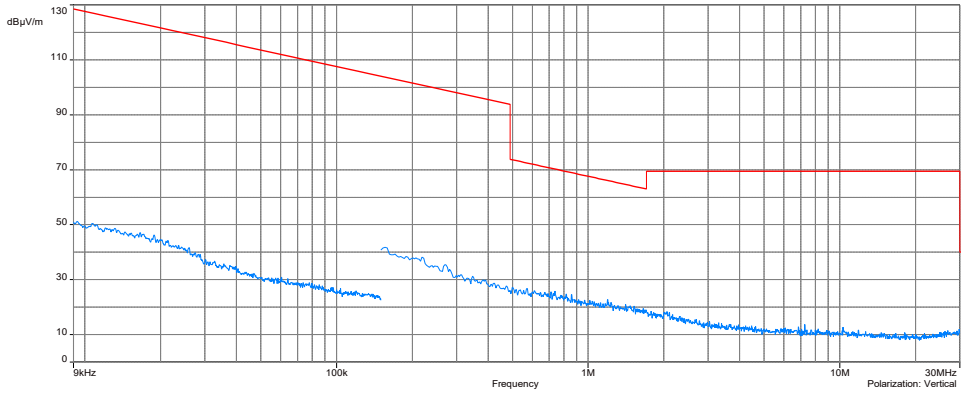
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17994.90	Peak	52.35	74.00	-21.65	89.03	Vertical	3.71
17803.37	Peak	52.17	74.00	-21.83	83.91	Horizontal	3.38
15609.80	Peak	51.57	74.00	-22.43	359.17	Vertical	3.88
18000.00	Average	43.20	54.00	-10.80	0.00	Horizontal	3.71
17976.20	Average	42.90	54.00	-11.10	9.87	Vertical	3.71
11456.70	Average	38.48	54.00	-15.52	305.02	Horizontal	3.35

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

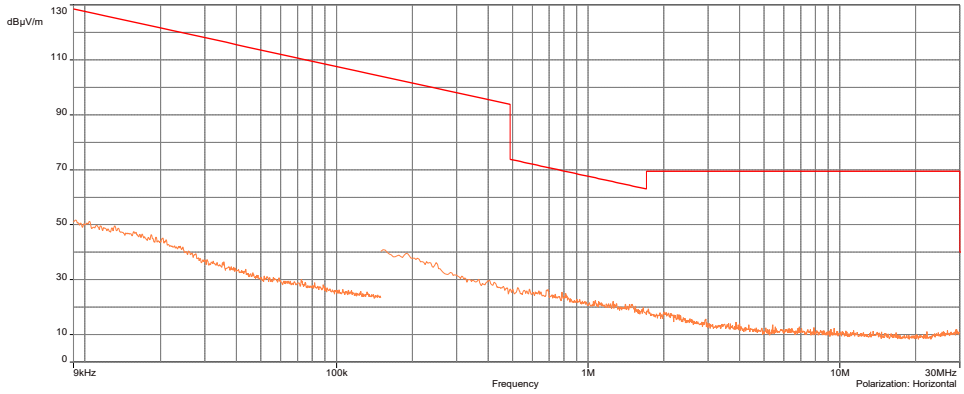
Test Results: 15.209 Radiated Spurious Emissions High Channel
Tx at 802.11g, 2462MHz, Battery Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

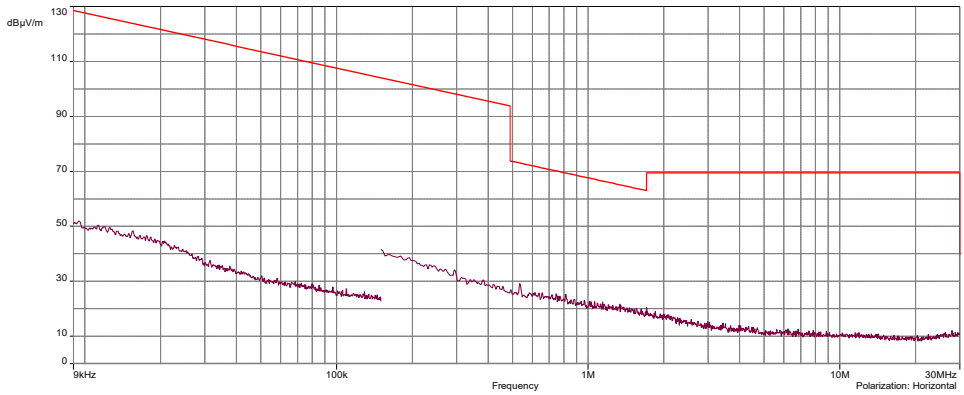
Antenna Position - Coaxial



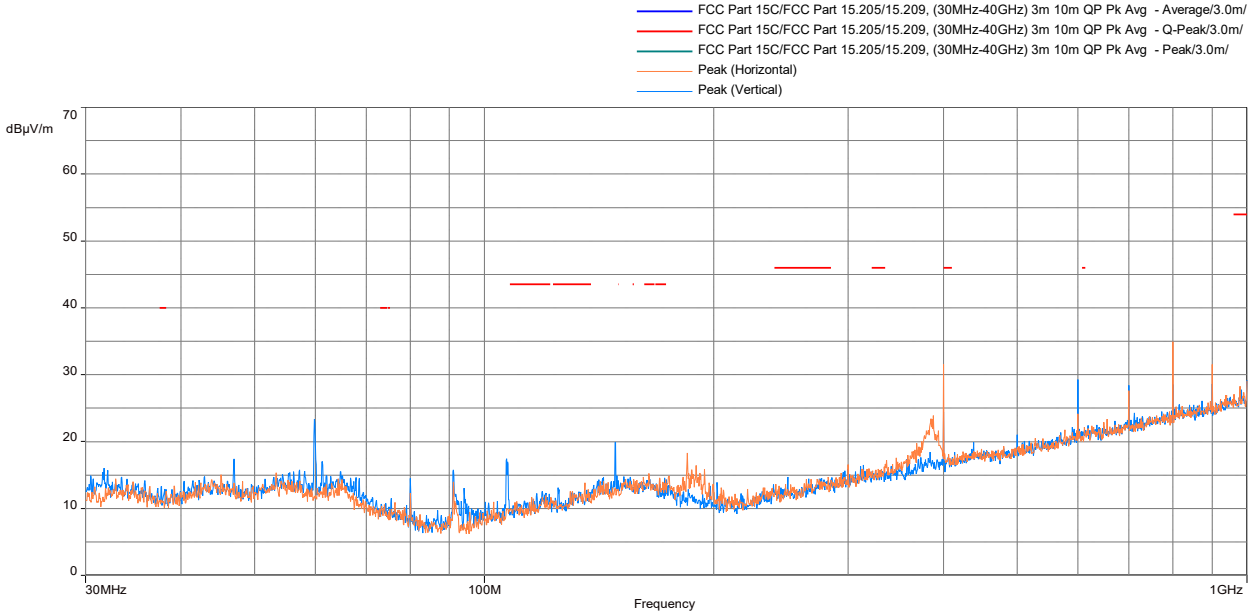
Antenna Position - Coplanar



Antenna Position - Horizontal

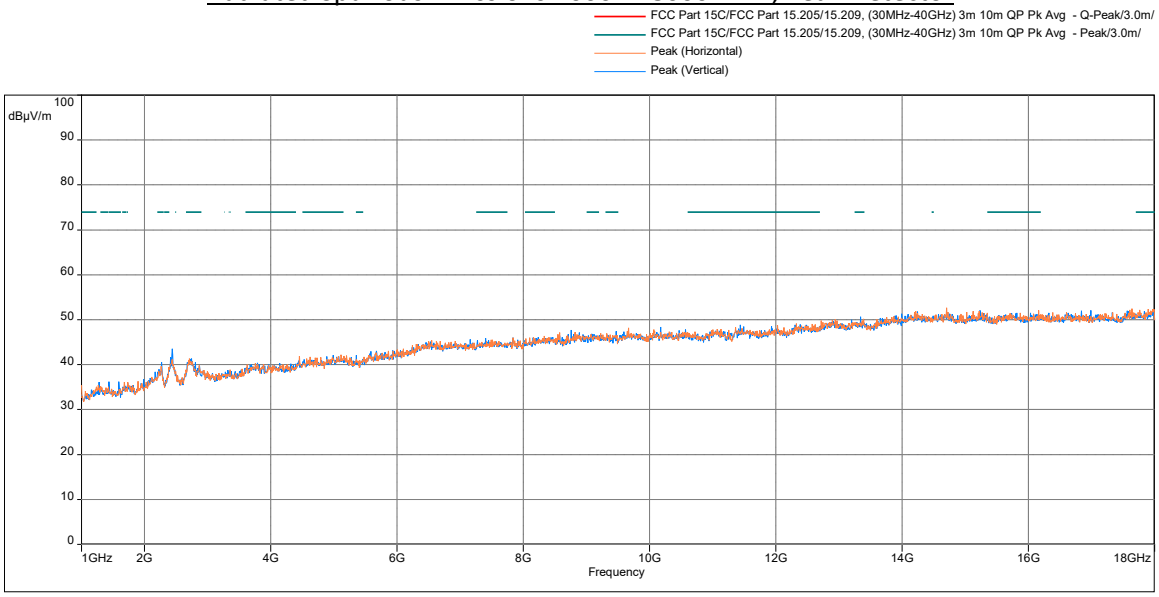


Radiated Spurious Emissions 30 MHz to 1000 MHz

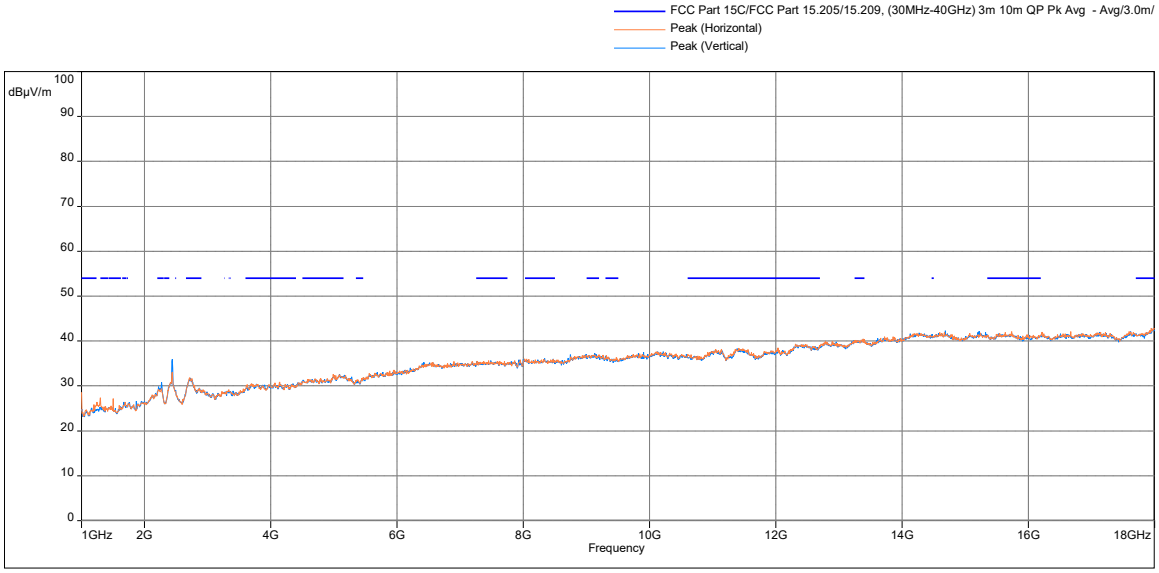


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
399.990	31.55	46.00	-14.45	38.84	Horizontal	-10.44
399.990	24.43	46.00	-21.57	190.47	Vertical	-10.44
611.838	22.15	46.00	-23.85	266.94	Horizontal	-6.25
612.711	21.68	46.00	-24.32	225.75	Vertical	-6.17
609.769	21.52	46.00	-24.48	249.01	Vertical	-6.35
1000.000	29.24	54.00	-24.76	142.38	Vertical	0.54

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



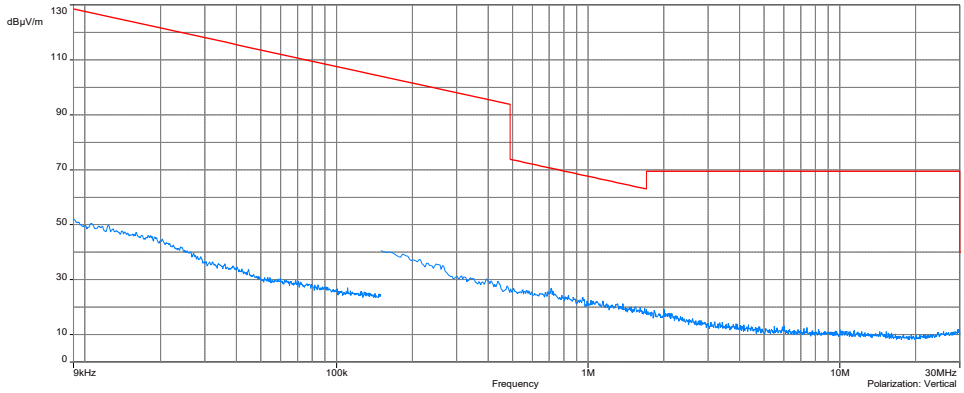
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17898.57	Peak	52.39	74.00	-21.61	48.49	Horizontal	3.59
17978.47	Peak	52.30	74.00	-21.70	67.94	Vertical	3.71
15813.80	Peak	51.57	74.00	-22.43	61.17	Vertical	4.09
17945.03	Average	42.87	54.00	-11.13	0.00	Horizontal	3.71
17977.90	Average	42.84	54.00	-11.16	0.00	Vertical	3.71
11413.63	Average	38.41	54.00	-15.59	212.29	Horizontal	3.49

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

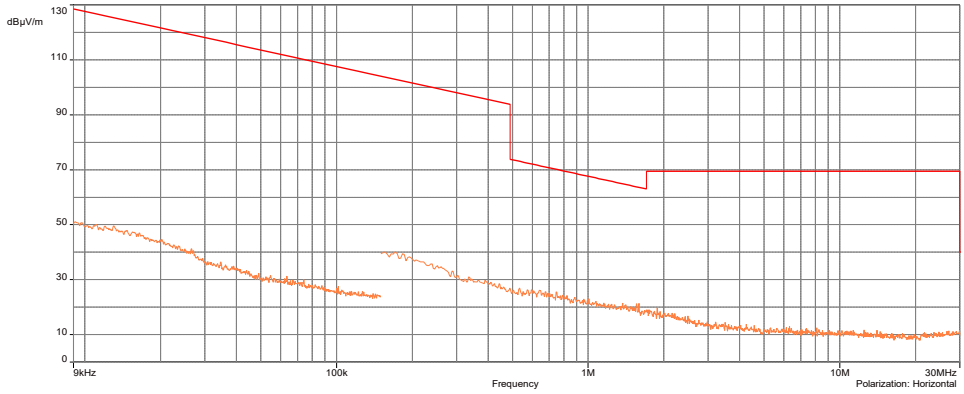
Test Results: 15.209 Radiated Spurious Emissions Low Channel
Tx at 802.11n20, 2412MHz, Charging Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

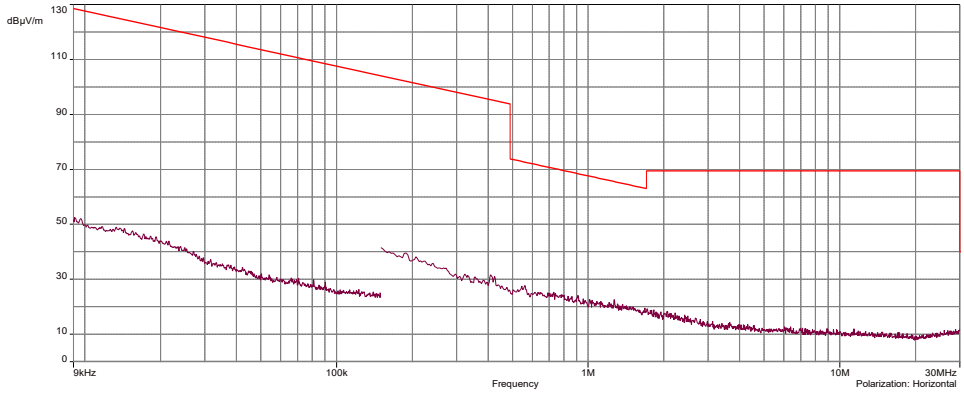
Antenna Position - Coaxial



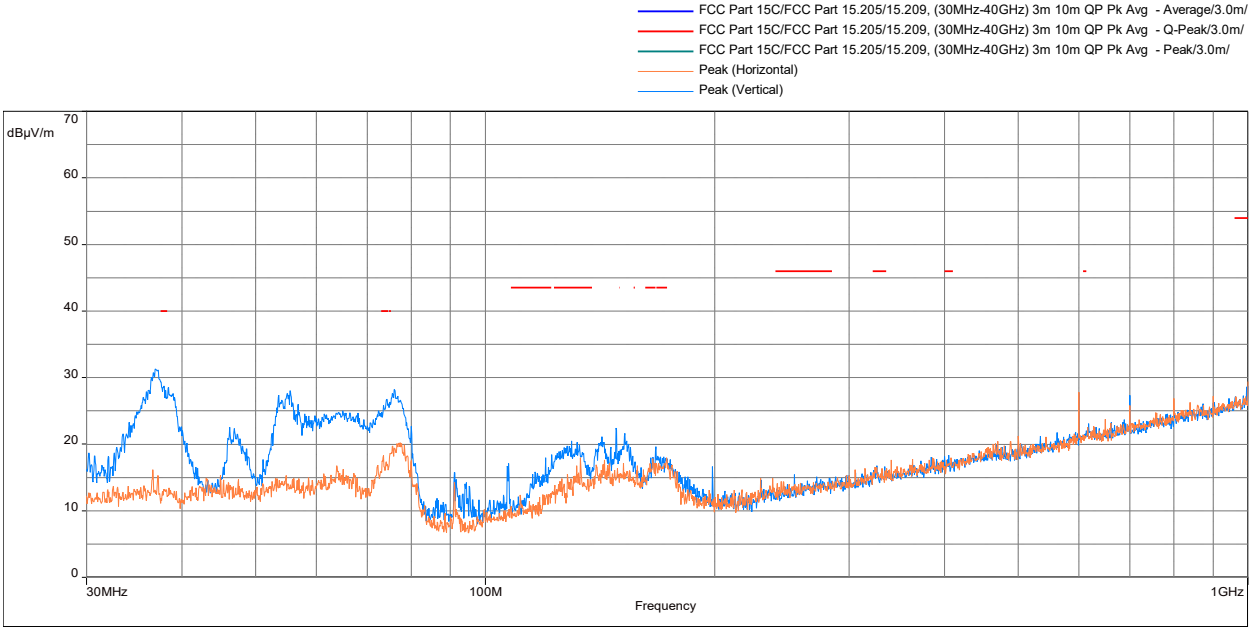
Antenna Position - Coplanar



Antenna Position - Horizontal

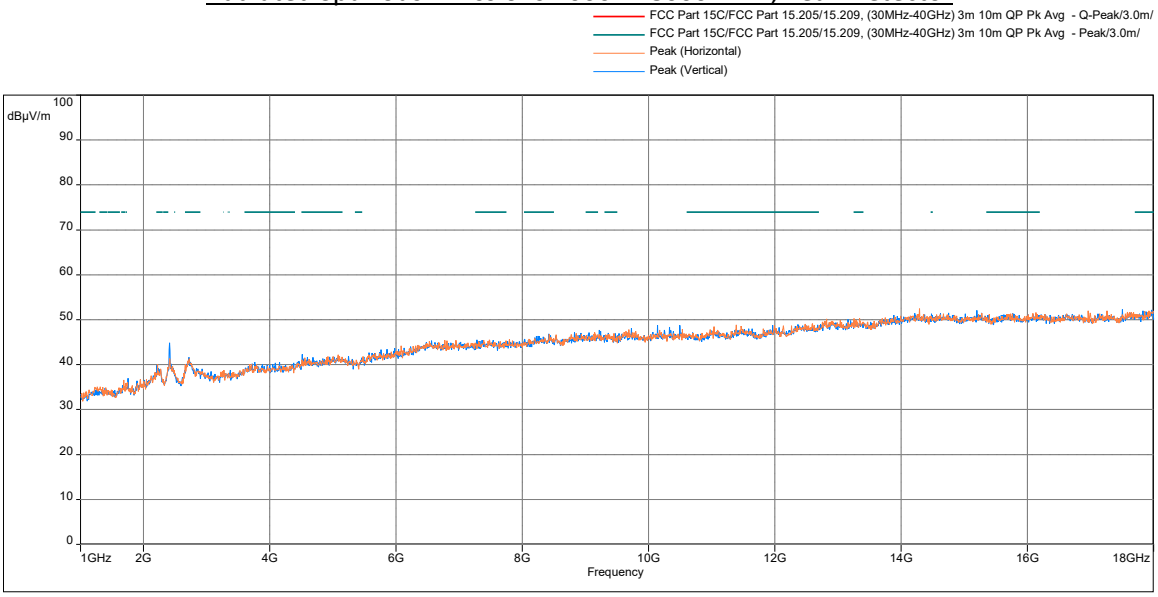


Radiated Spurious Emissions 30 MHz to 1000 MHz

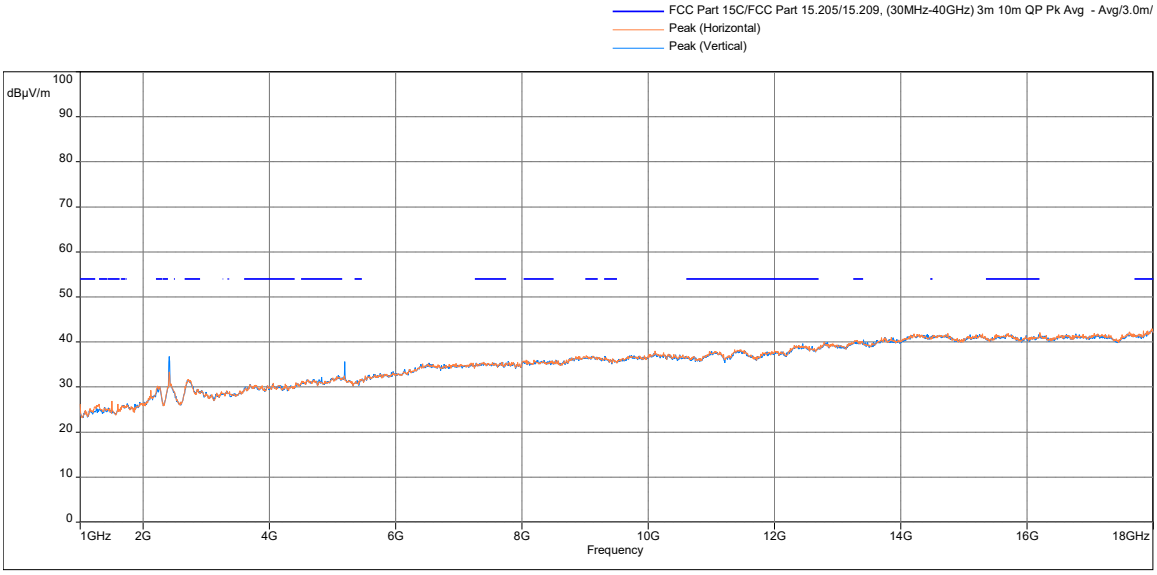


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
129.781	20.49	43.50	-23.01	116.75	Vertical	-15.50
131.915	20.29	43.50	-23.21	143.60	Vertical	-15.19
610.513	21.50	46.00	-24.50	265.07	Vertical	-6.30
1000.000	29.40	54.00	-24.60	290.99	Horizontal	0.54
1000.000	28.78	54.00	-25.22	178.88	Vertical	0.54
171.426	18.11	43.50	-25.39	178.88	Vertical	-13.98

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



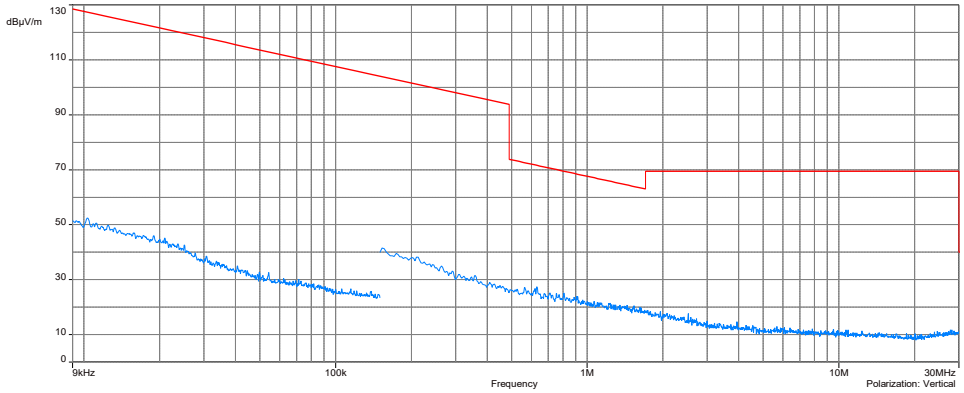
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17963.73	Peak	52.23	74.00	-21.77	347.90	Vertical	3.72
17924.63	Peak	51.96	74.00	-22.04	169.09	Horizontal	3.66
15772.43	Peak	51.42	74.00	-22.58	276.09	Vertical	4.06
17981.87	Average	42.95	54.00	-11.05	304.23	Horizontal	3.71
17971.67	Average	42.49	54.00	-11.51	0.00	Vertical	3.71
11449.33	Average	38.10	54.00	-15.90	285.23	Vertical	3.38

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

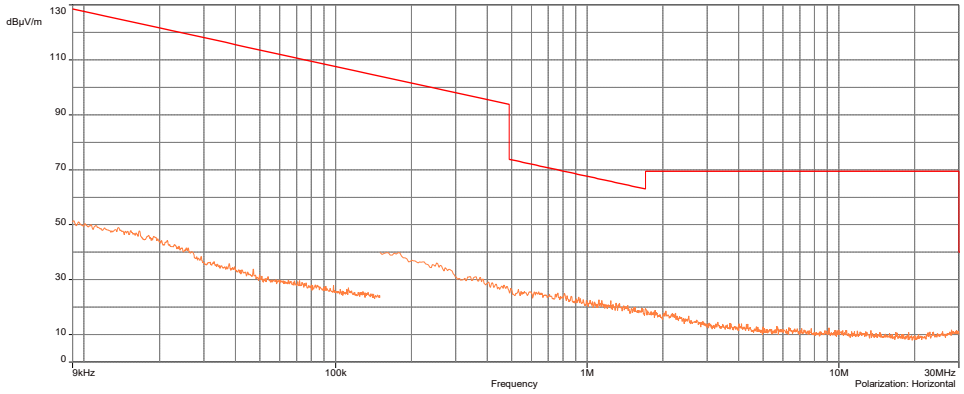
Test Results: 15.209 Radiated Spurious Emissions Low Channel
Tx at 802.11n20, 2412MHz, Battery Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

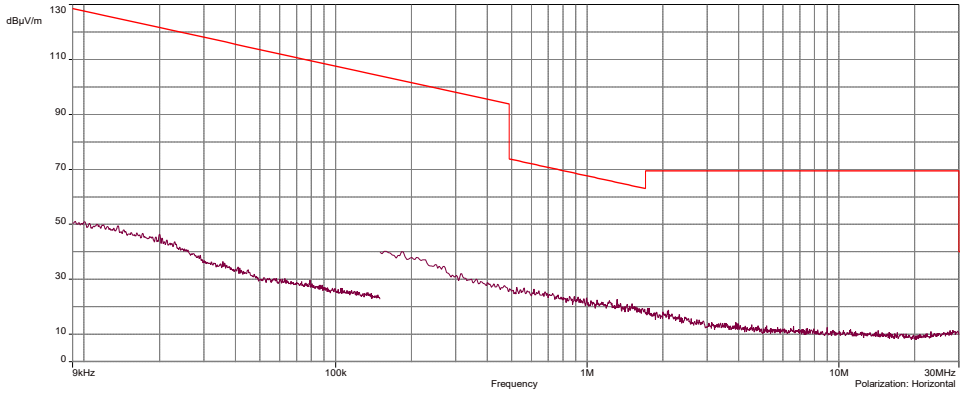
Antenna Position - Coaxial



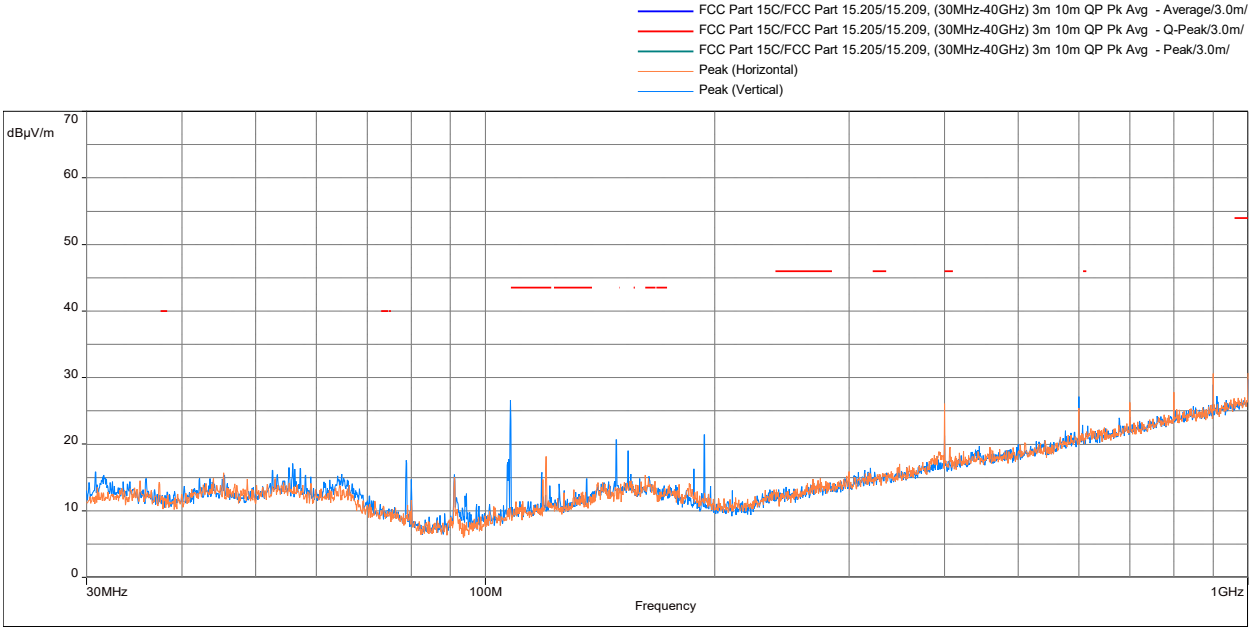
Antenna Position - Coplanar



Antenna Position - Horizontal

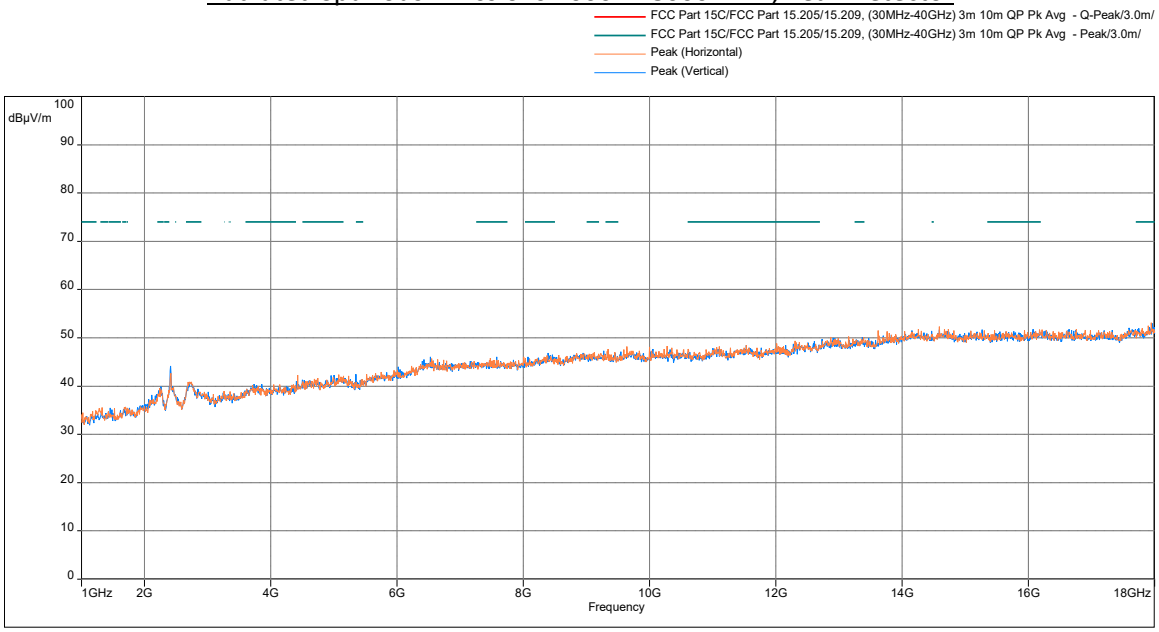


Radiated Spurious Emissions 30 MHz to 1000 MHz

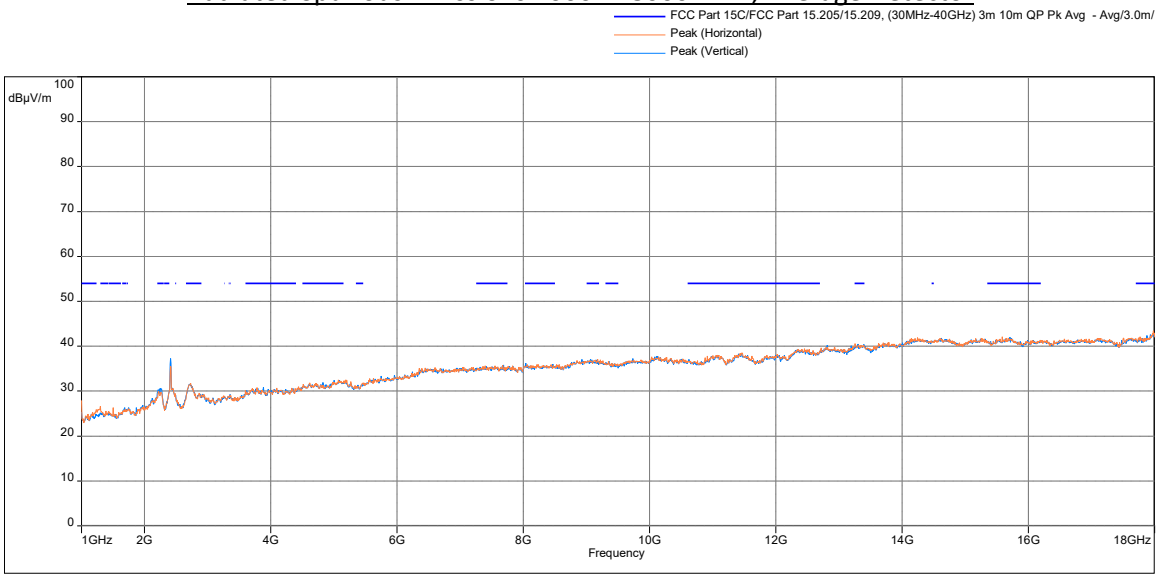


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
399.990	26.09	46.00	-19.91	249.30	Horizontal	-10.44
1000.000	30.65	54.00	-23.35	31.65	Horizontal	0.54
1000.000	29.75	54.00	-24.25	148.79	Vertical	0.54
612.938	21.66	46.00	-24.34	88.17	Horizontal	-6.15
399.990	21.32	46.00	-24.68	294.30	Vertical	-10.44
120.145	18.19	43.50	-25.31	222.45	Horizontal	-16.22

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



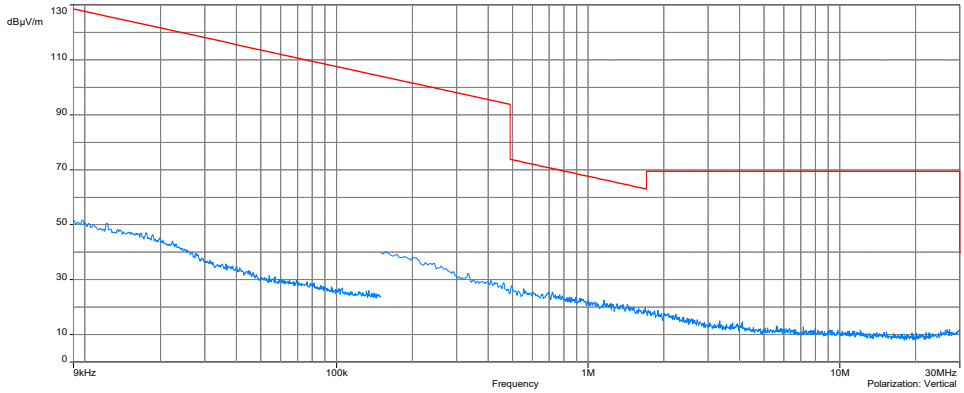
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17949.00	Peak	53.18	74.00	-20.82	228.78	Horizontal	3.72
17968.83	Peak	52.94	74.00	-21.06	247.43	Vertical	3.71
15936.20	Peak	51.50	74.00	-22.50	0.00	Horizontal	4.22
17980.17	Average	43.44	54.00	-10.56	166.71	Horizontal	3.71
17979.60	Average	42.91	54.00	-11.09	285.23	Vertical	3.71
15586.00	Average	42.15	54.00	-11.85	73.97	Horizontal	3.87

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

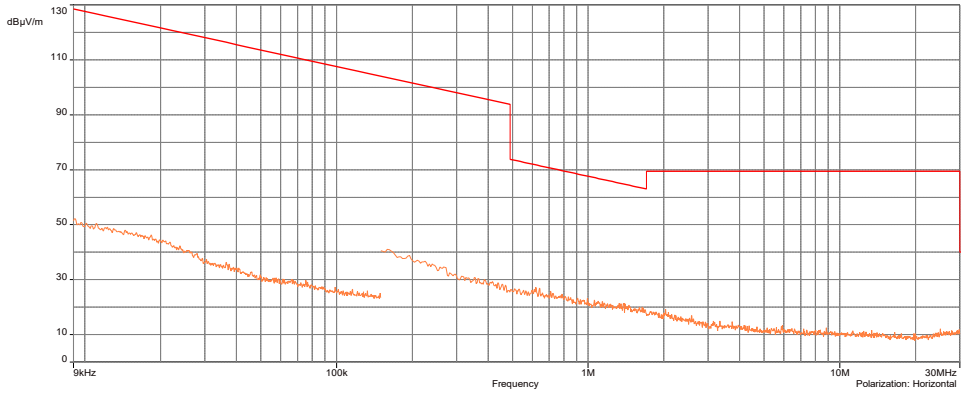
Test Results: 15.209 Radiated Spurious Emissions Mid Channel
Tx at 802.11n20, 2437MHz, Charging Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

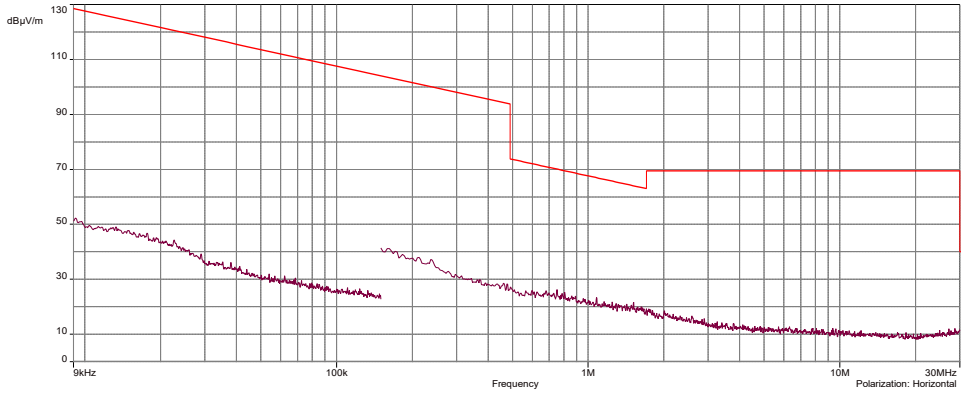
Antenna Position - Coaxial



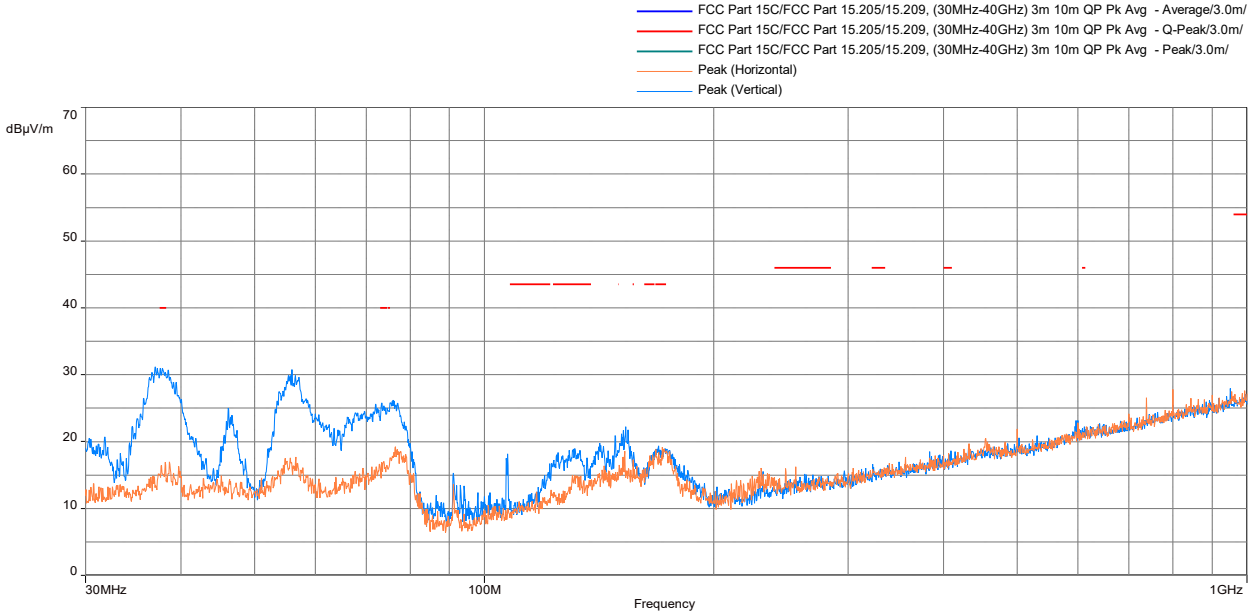
Antenna Position - Coplanar



Antenna Position - Horizontal

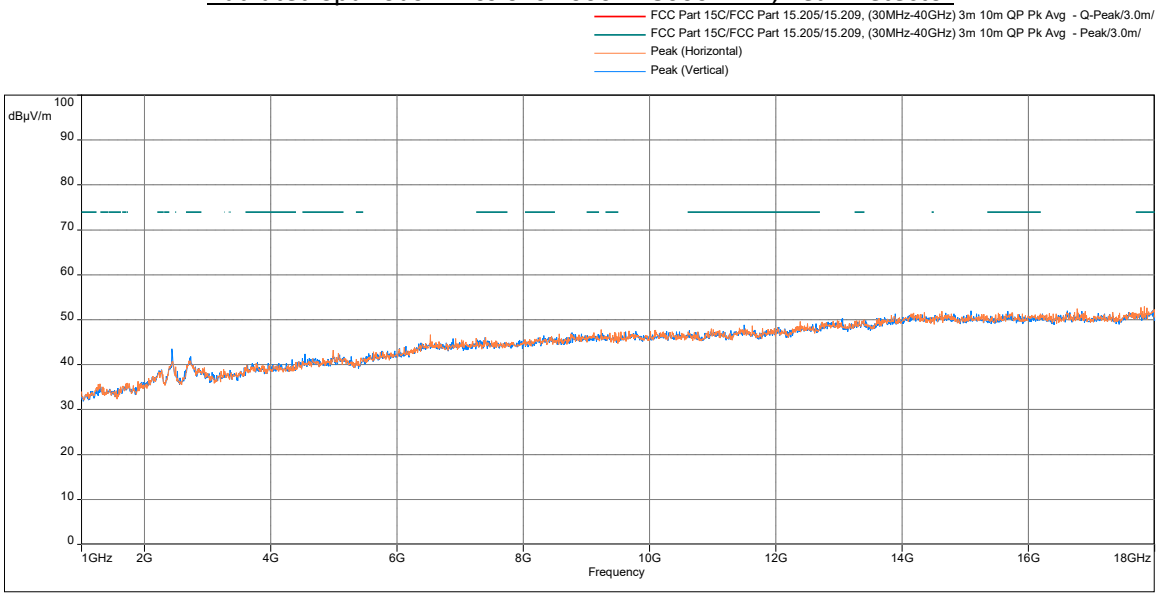


Radiated Spurious Emissions 30 MHz to 1000 MHz

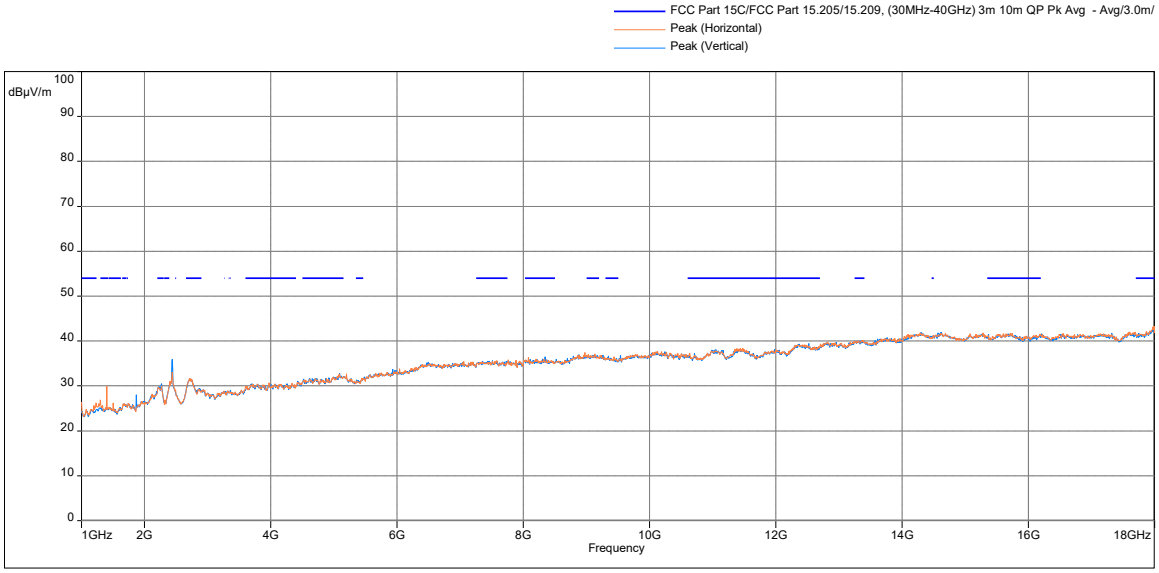


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
611.935	22.23	46.00	-23.77	74.63	Vertical	-6.24
608.508	21.95	46.00	-24.05	208.12	Vertical	-6.40
169.292	19.37	43.50	-24.13	193.28	Vertical	-13.67
171.135	19.14	43.50	-24.36	87.73	Horizontal	-13.95
131.397	18.97	43.50	-24.53	170.03	Vertical	-15.29
172.493	18.95	43.50	-24.55	137.56	Vertical	-14.13

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



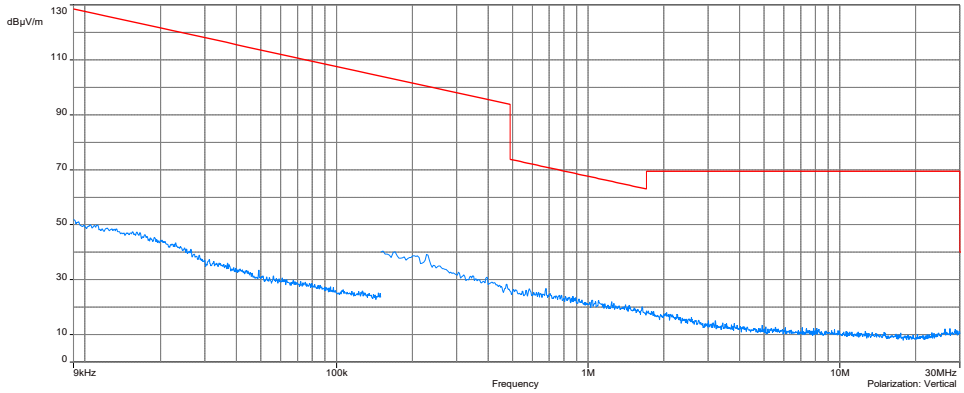
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17836.23	Peak	53.00	74.00	-21.00	148.79	Horizontal	3.44
17988.67	Peak	52.15	74.00	-21.85	211.22	Vertical	3.71
15673.27	Peak	51.89	74.00	-22.11	356.77	Vertical	4.01
17996.03	Average	43.32	54.00	-10.68	257.86	Horizontal	3.71
17972.80	Average	42.54	54.00	-11.46	285.23	Vertical	3.71
11437.43	Average	38.44	54.00	-15.56	165.92	Horizontal	3.42

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

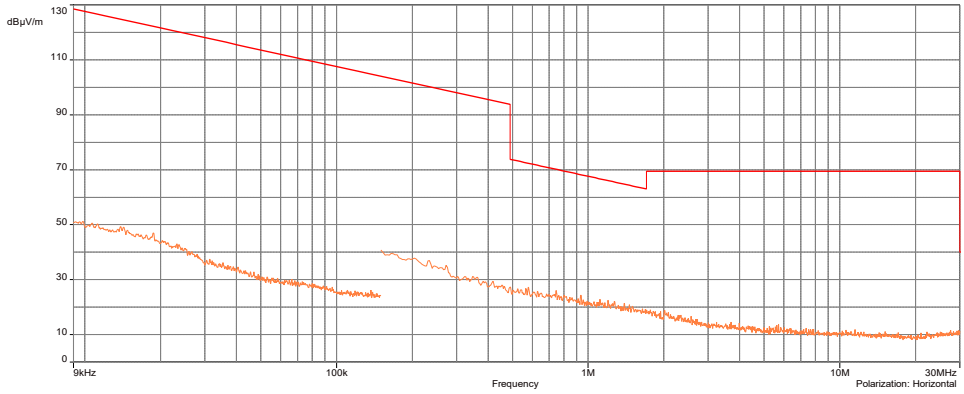
Test Results: 15.209 Radiated Spurious Emissions Mid Channel
Tx at 802.11n20, 2437MHz, Battery Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

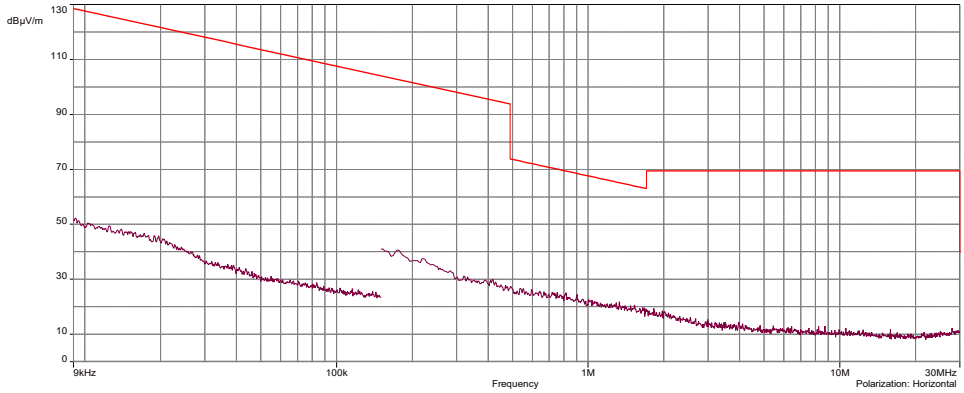
Antenna Position - Coaxial



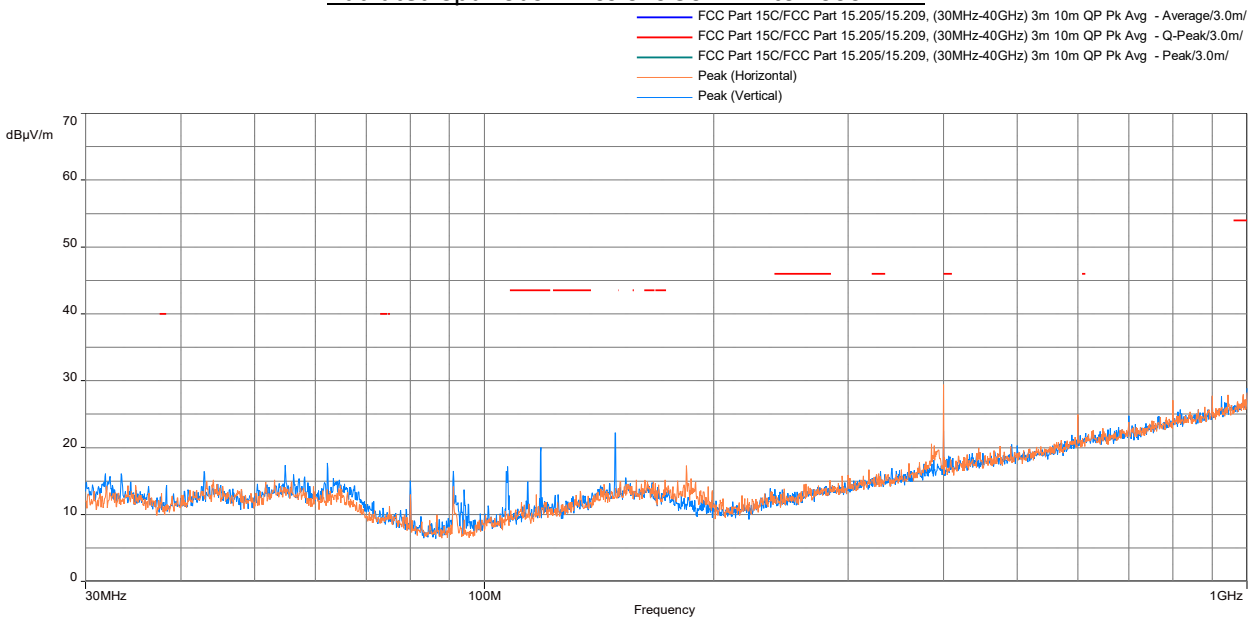
Antenna Position - Coplanar



Antenna Position - Horizontal

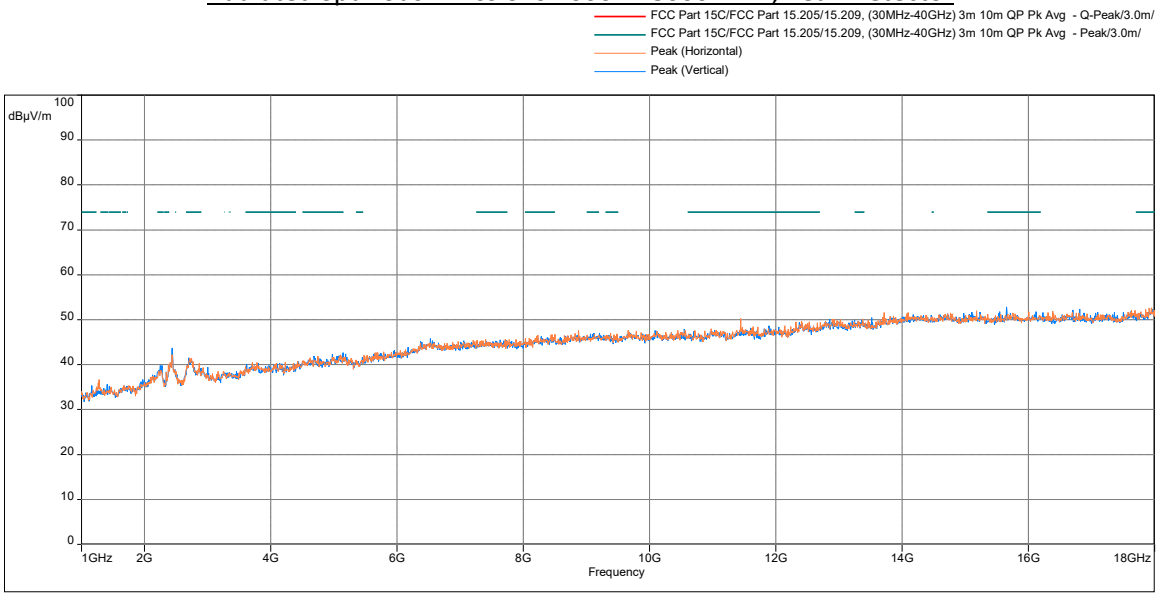


Radiated Spurious Emissions 30 MHz to 1000 MHz

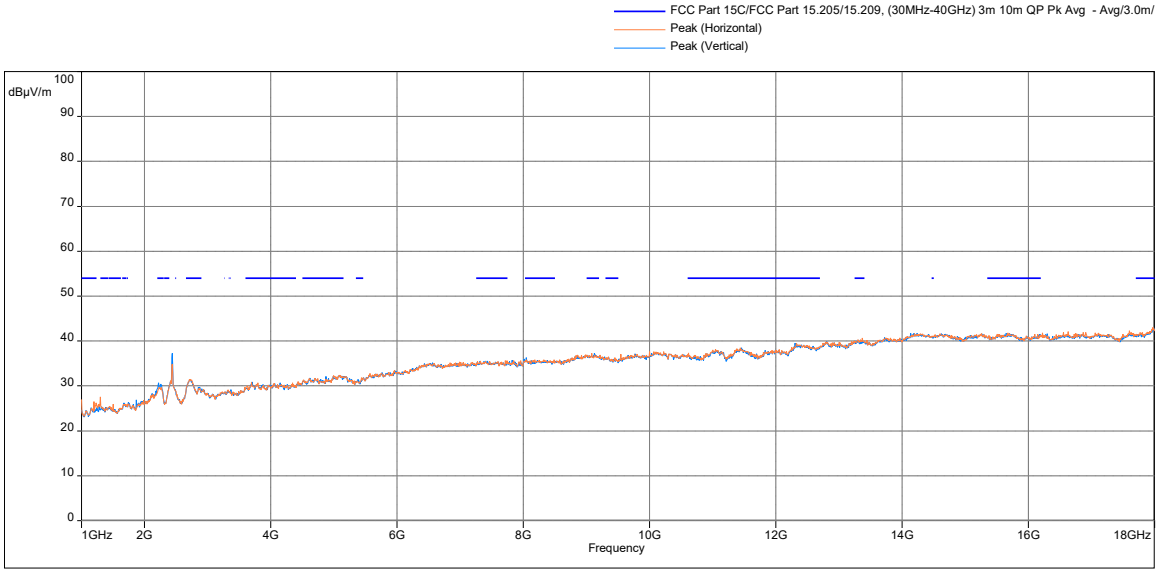


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
400.023	29.38	46.00	-16.62	247.29	Horizontal	-10.44
118.593	20.02	43.50	-23.48	289.48	Vertical	-16.37
399.990	22.48	46.00	-23.52	187.67	Vertical	-10.44
613.843	21.58	46.00	-24.42	271.05	Vertical	-6.14
608.993	21.41	46.00	-24.59	173.92	Horizontal	-6.35
1000.000	28.89	54.00	-25.11	151.60	Vertical	0.54

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



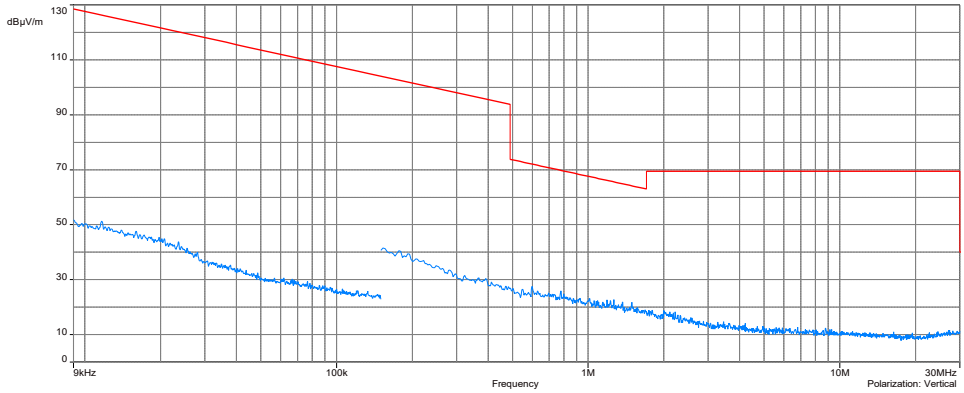
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
15656.83	Peak	52.82	74.00	-21.18	239.87	Vertical	3.97
17949.57	Peak	52.64	74.00	-21.36	335.05	Horizontal	3.72
17965.43	Peak	52.37	74.00	-21.63	182.56	Vertical	3.72
17972.80	Average	43.06	54.00	-10.94	0.00	Horizontal	3.71
17983.57	Average	42.98	54.00	-11.02	147.71	Vertical	3.71
11433.47	Average	38.55	54.00	-15.45	349.54	Horizontal	3.43

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

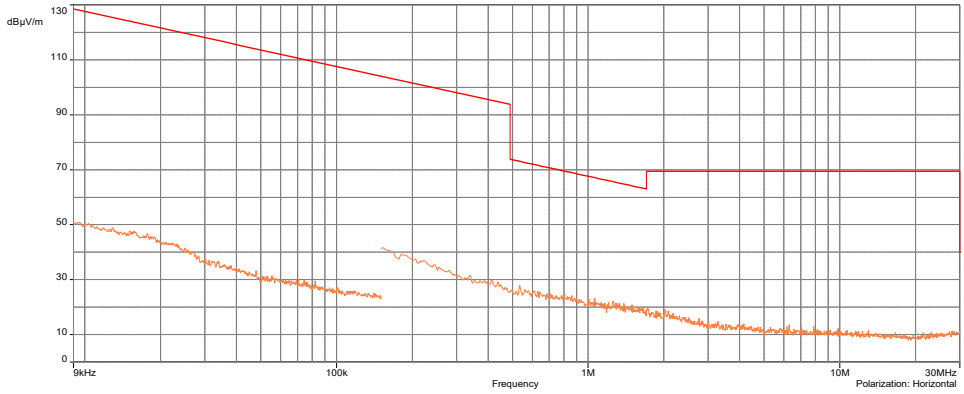
Test Results: 15.209 Radiated Spurious Emissions High Channel
Tx at 802.11n20, 2462MHz, Charging Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

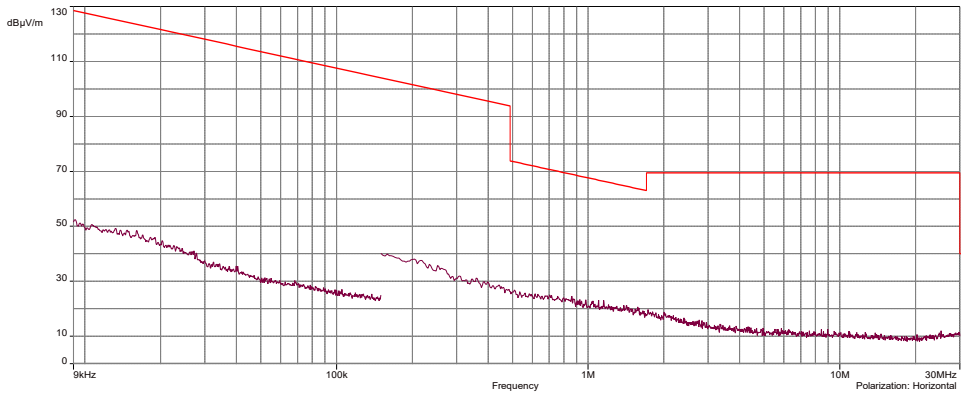
Antenna Position - Coaxial



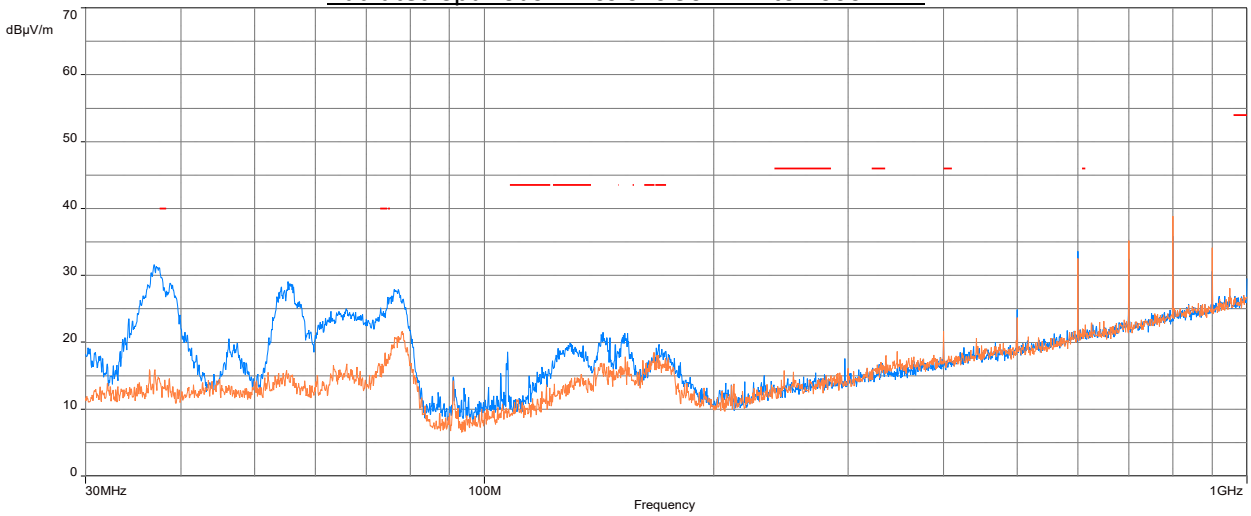
Antenna Position - Coplanar



Antenna Position - Horizontal

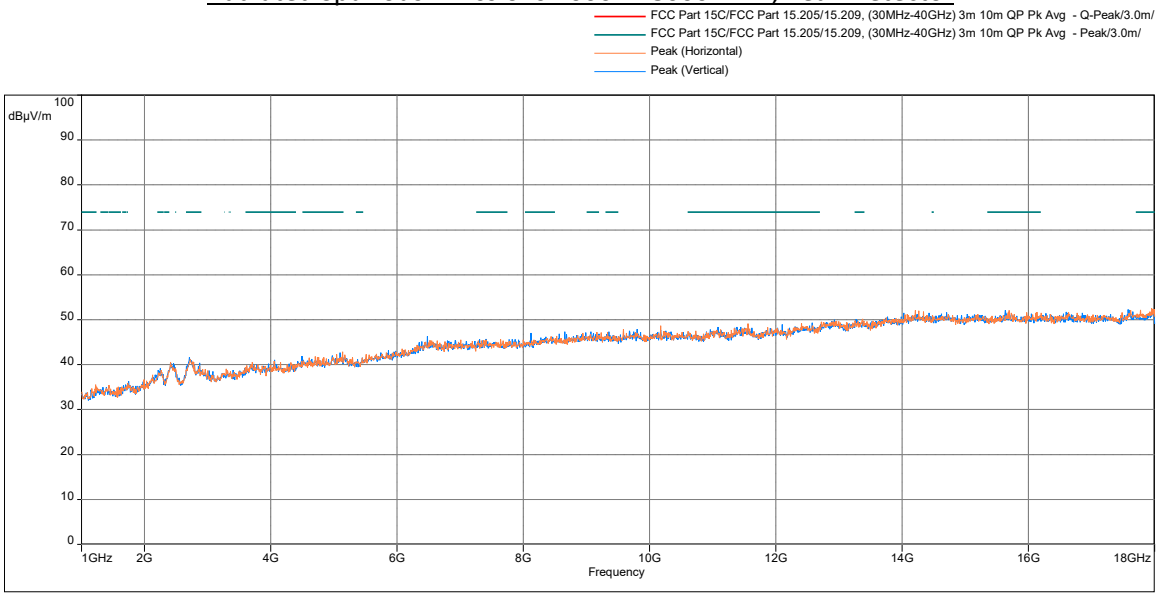


Radiated Spurious Emissions 30 MHz to 1000 MHz

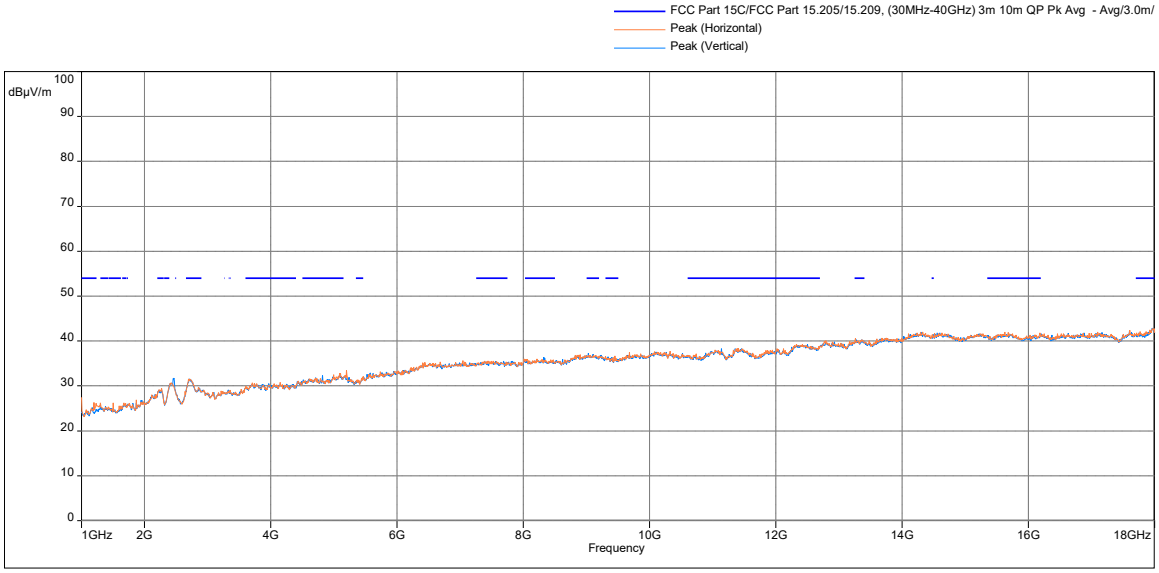


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
129.554	19.92	43.50	-23.58	184.50	Vertical	-15.52
169.389	19.73	43.50	-23.77	148.43	Vertical	-13.68
134.760	19.51	43.50	-23.99	136.40	Vertical	-14.88
608.670	22.00	46.00	-24.00	359.87	Horizontal	-6.39
610.771	21.98	46.00	-24.02	261.25	Horizontal	-6.27
611.547	21.69	46.00	-24.31	124.88	Horizontal	-6.25

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



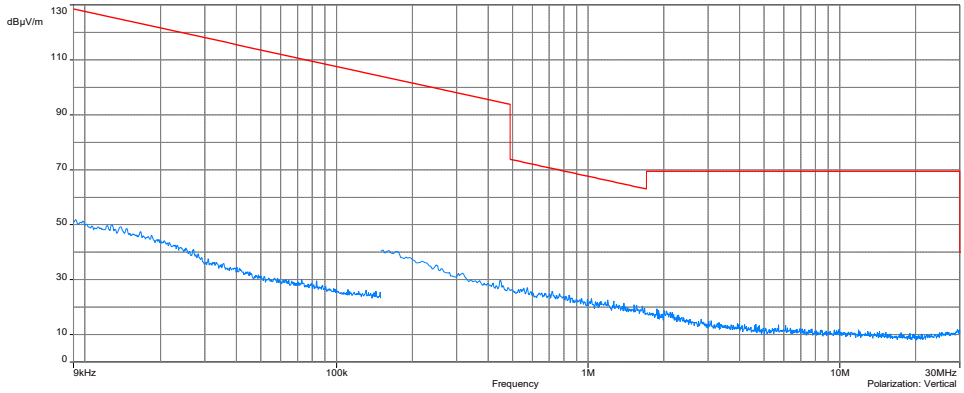
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17953.53	Peak	52.53	74.00	-21.47	40.14	Horizontal	3.72
17984.70	Peak	52.42	74.00	-21.58	132.81	Vertical	3.71
15631.90	Peak	52.15	74.00	-21.85	291.21	Vertical	3.92
17959.20	Average	42.92	54.00	-11.08	331.60	Vertical	3.72
17994.33	Average	42.79	54.00	-11.21	0.00	Horizontal	3.71
11398.90	Average	38.43	54.00	-15.57	305.02	Horizontal	3.53

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

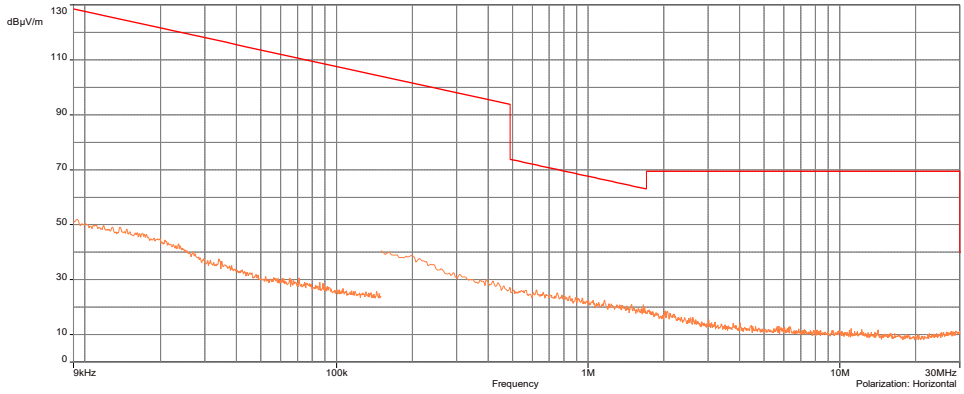
Test Results: 15.209 Radiated Spurious Emissions High Channel
Tx at 802.11n20, 2462MHz, Battery Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

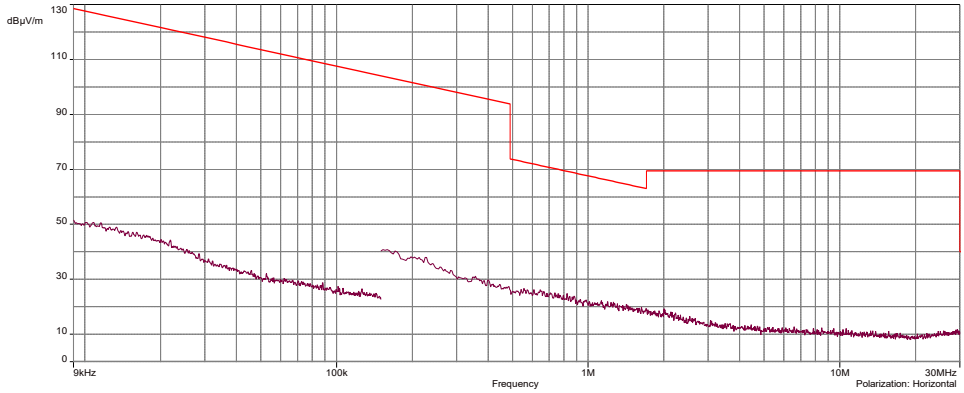
Antenna Position - Coaxial



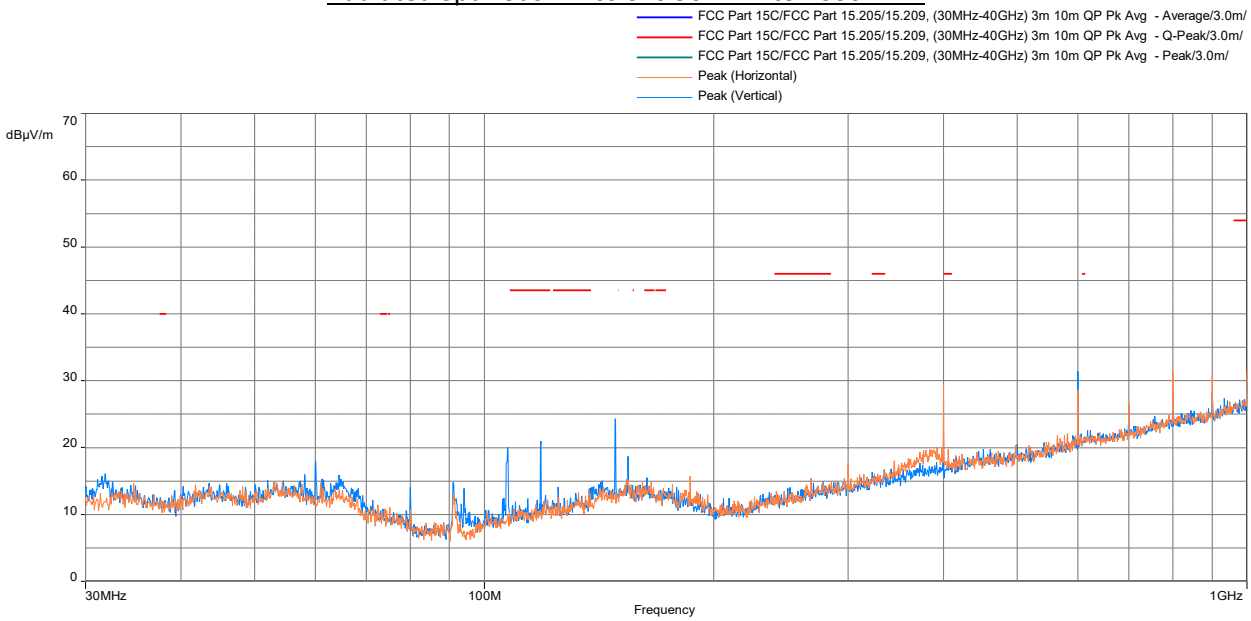
Antenna Position - Coplanar



Antenna Position - Horizontal

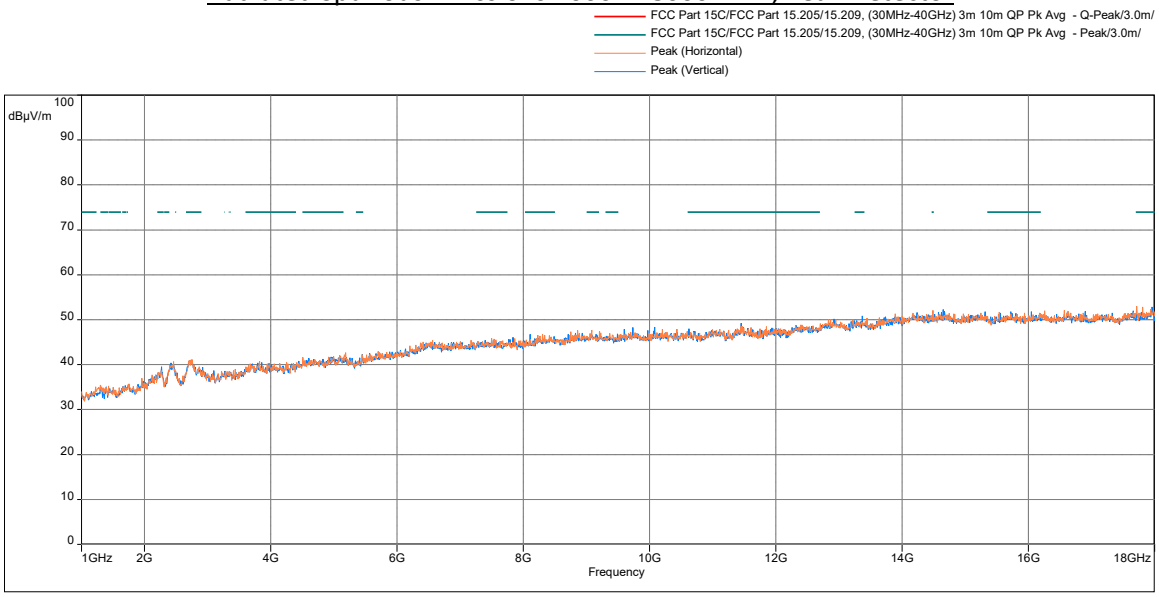


Radiated Spurious Emissions 30 MHz to 1000 MHz

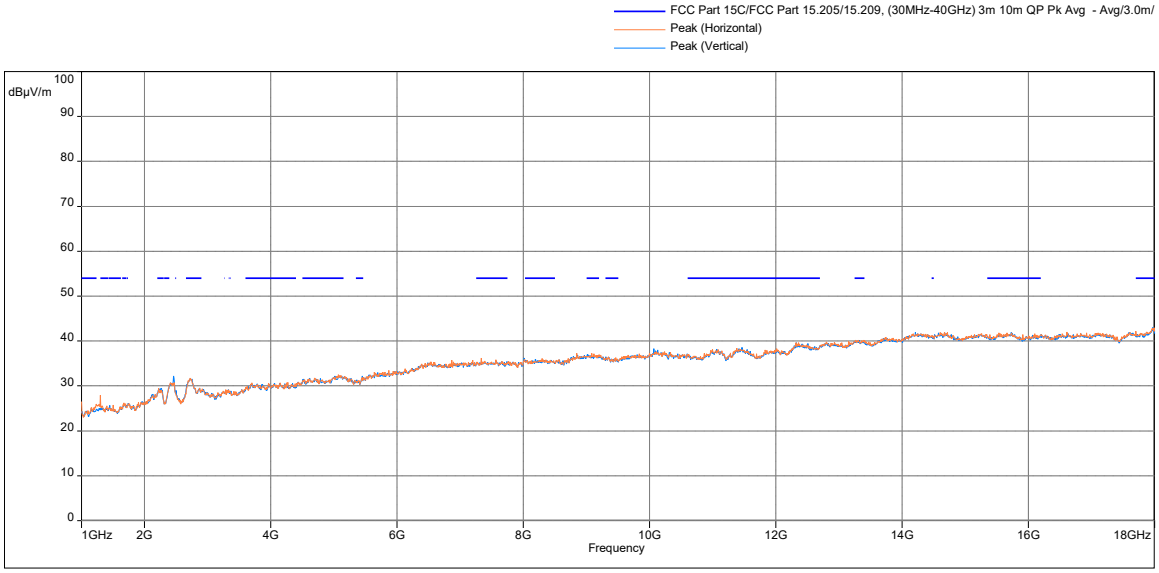


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
399.990	29.41	46.00	-16.59	326.27	Horizontal	-10.44
1000.000	31.50	54.00	-22.50	36.47	Horizontal	0.54
118.593	20.95	43.50	-22.55	131.94	Vertical	-16.37
1000.000	29.66	54.00	-24.34	196.88	Vertical	0.54
612.970	21.62	46.00	-24.38	211.71	Vertical	-6.15
610.577	21.47	46.00	-24.53	167.15	Horizontal	-6.29

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



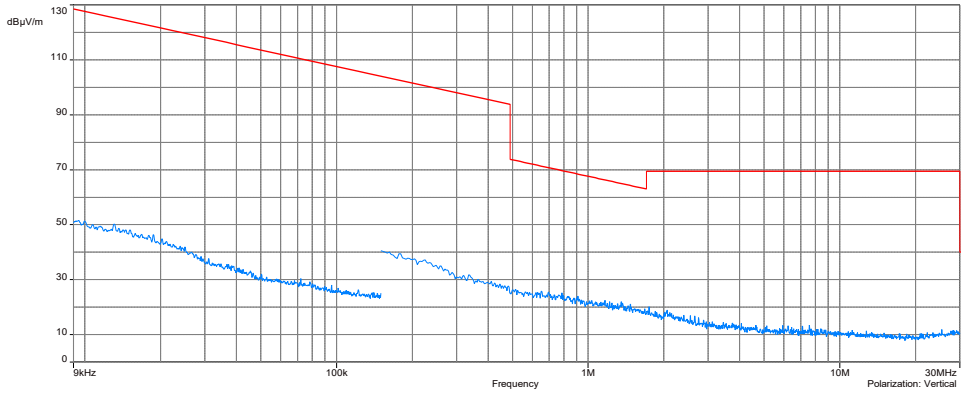
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17712.70	Peak	53.07	74.00	-20.93	0.83	Horizontal	3.37
17960.33	Peak	52.83	74.00	-21.17	325.84	Vertical	3.72
14488.93	Peak	52.08	74.00	-21.92	320.72	Horizontal	4.29
17975.63	Average	43.04	54.00	-10.96	0.00	Vertical	3.71
17990.37	Average	42.93	54.00	-11.07	349.54	Horizontal	3.71
11462.37	Average	38.59	54.00	-15.41	101.34	Vertical	3.33

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

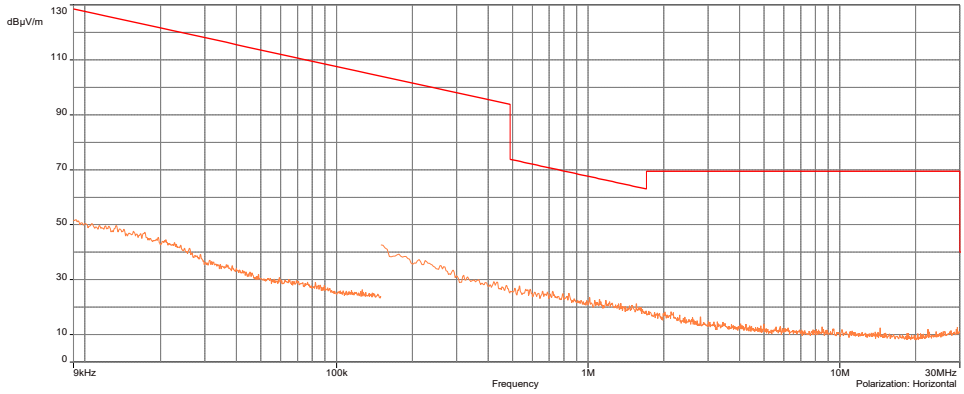
Test Results: 15.209 Radiated Spurious Emissions Low Channel
Tx at 802.11ax20, 2412MHz, Charging Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

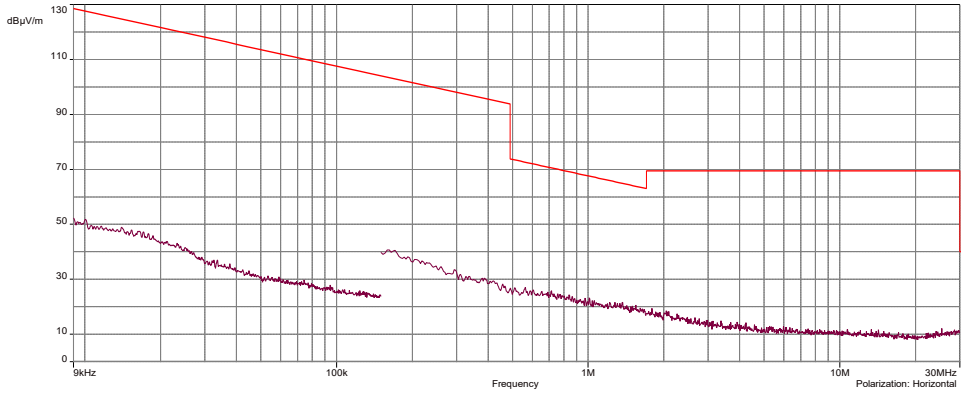
Antenna Position - Coaxial



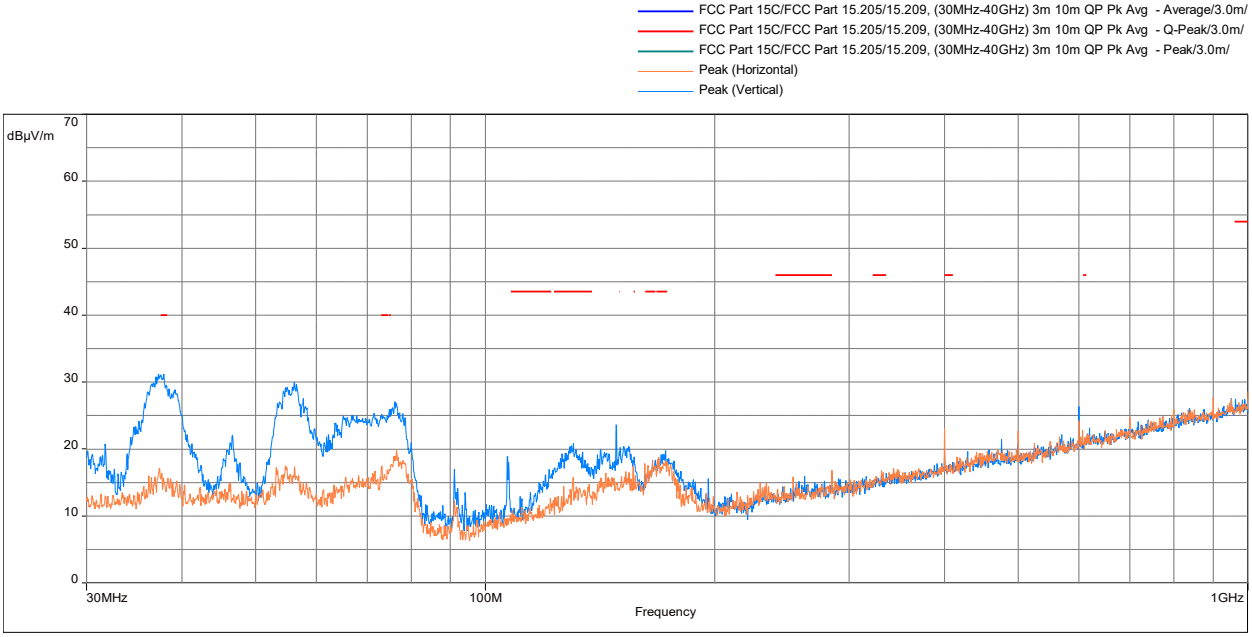
Antenna Position - Coplanar



Antenna Position - Horizontal

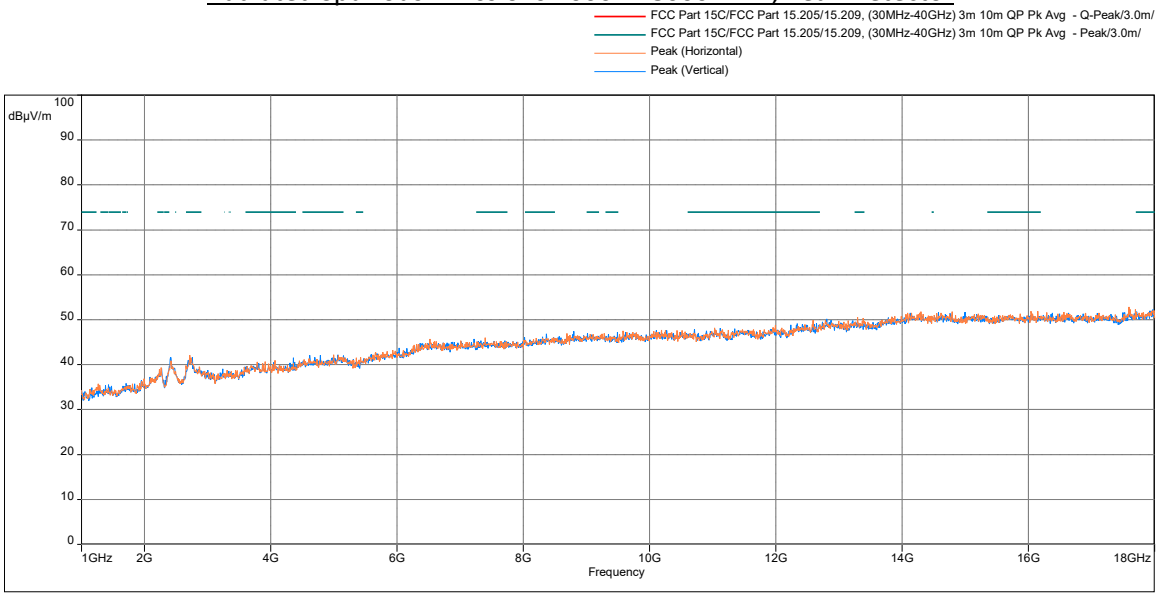


Radiated Spurious Emissions 30 MHz to 1000 MHz

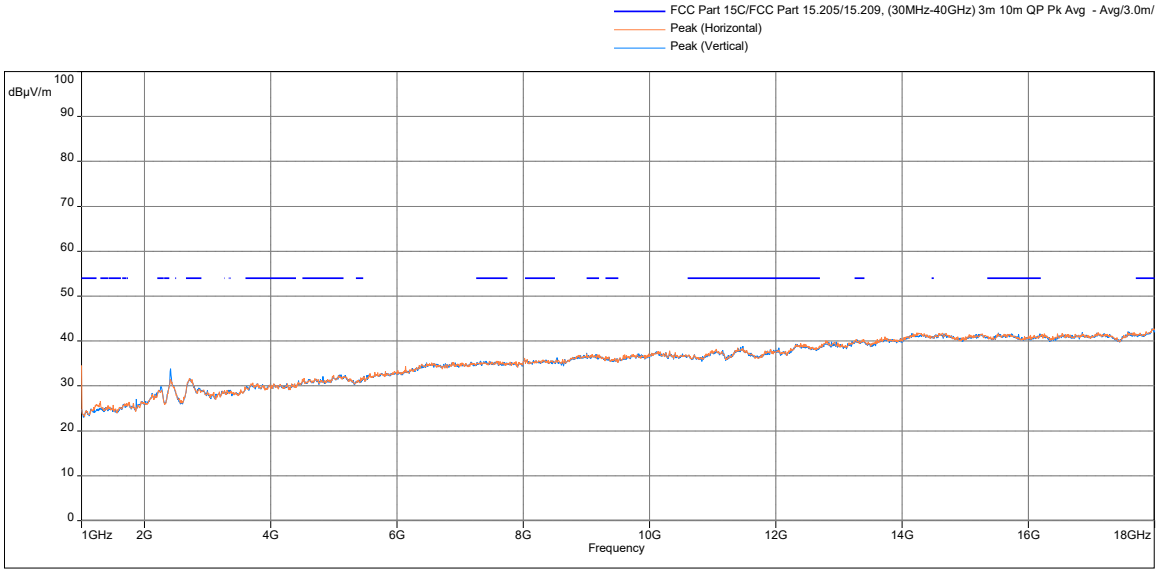


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
37.889	31.24	40.00	-8.76	161.61	Vertical	-14.10
73.165	17.50	40.00	-22.50	216.04	Horizontal	-16.61
130.524	20.91	43.50	-22.59	167.22	Vertical	-15.42
399.990	23.18	46.00	-22.82	37.26	Horizontal	-10.44
172.396	19.79	43.50	-23.71	95.87	Vertical	-14.11
134.113	19.58	43.50	-23.92	143.17	Vertical	-14.95

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



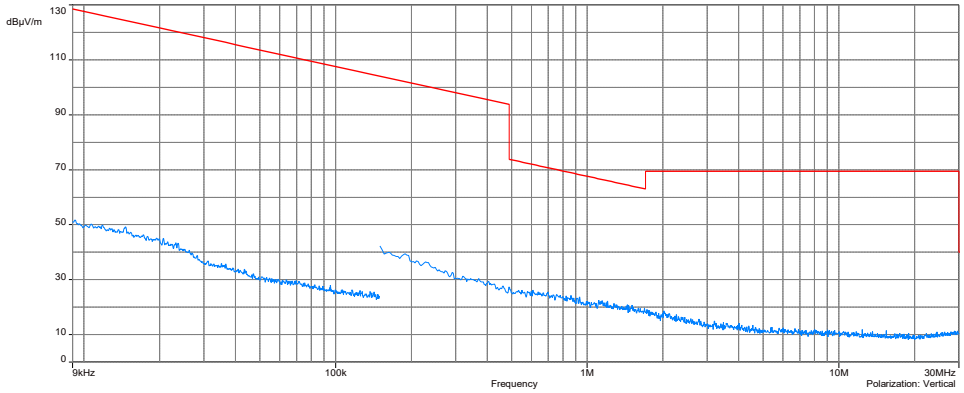
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17976.20	Peak	52.28	74.00	-21.72	52.03	Vertical	3.71
17984.13	Peak	52.14	74.00	-21.86	257.43	Horizontal	3.71
15874.43	Peak	51.31	74.00	-22.69	272.55	Horizontal	4.19
17988.67	Average	42.75	54.00	-11.25	165.92	Horizontal	3.71
17957.50	Average	42.74	54.00	-11.26	286.02	Vertical	3.72
11475.40	Average	38.92	54.00	-15.08	147.71	Vertical	3.28

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

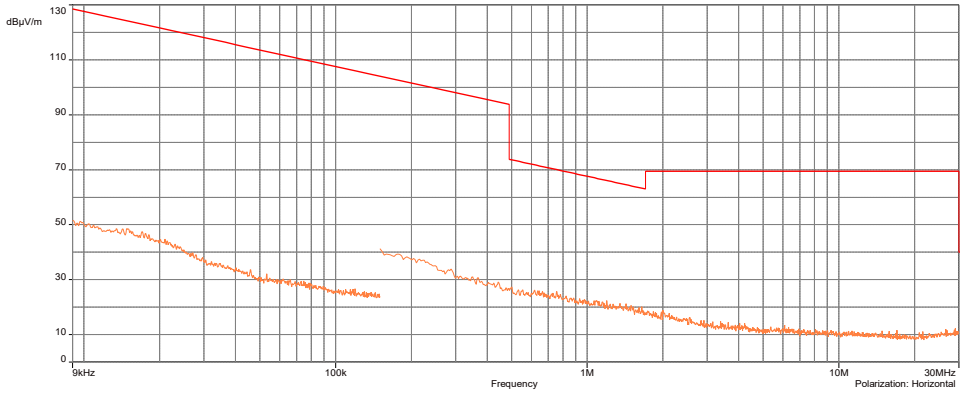
Test Results: 15.209 Radiated Spurious Emissions Low Channel
Tx at 802.11ax20, 2412MHz, Battery Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

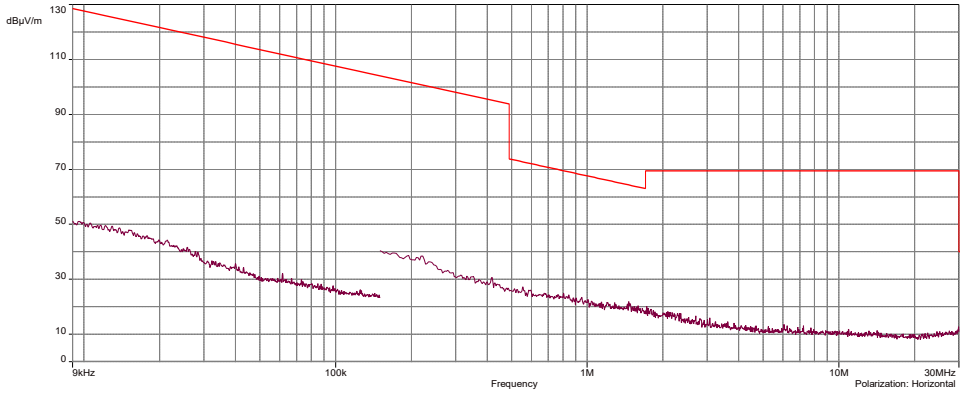
Antenna Position - Coaxial



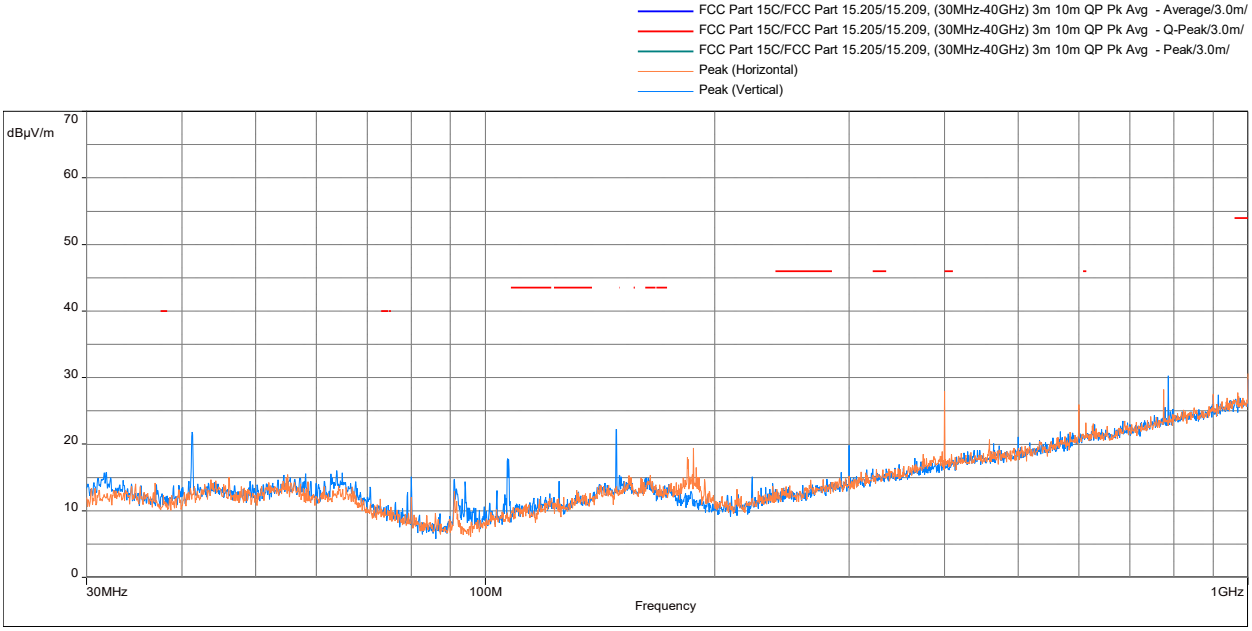
Antenna Position - Coplanar



Antenna Position - Horizontal

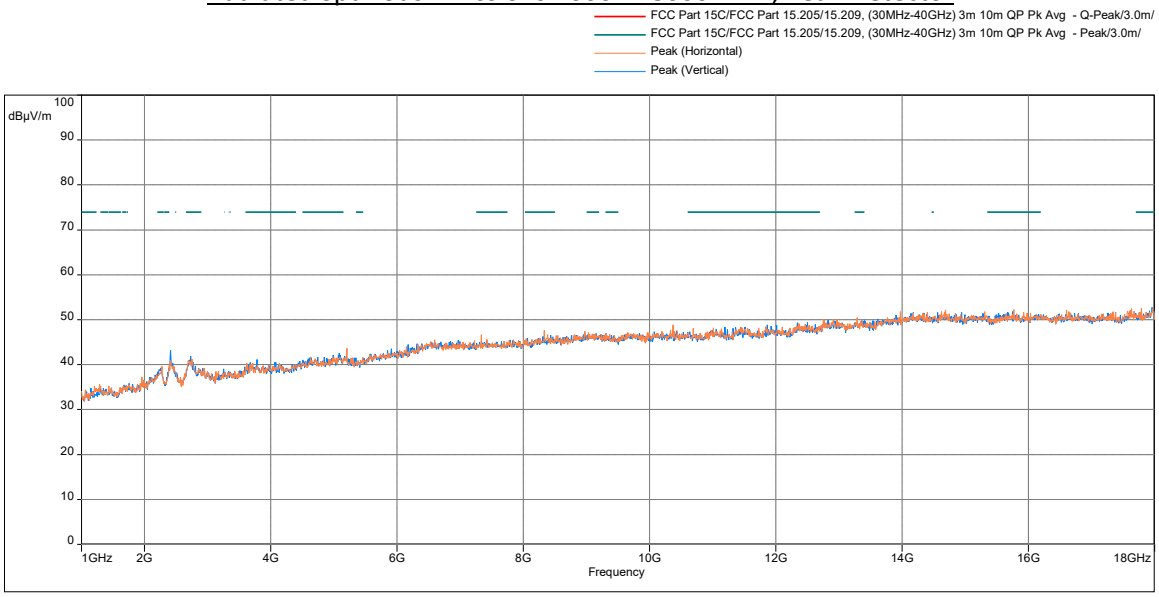


Radiated Spurious Emissions 30 MHz to 1000 MHz

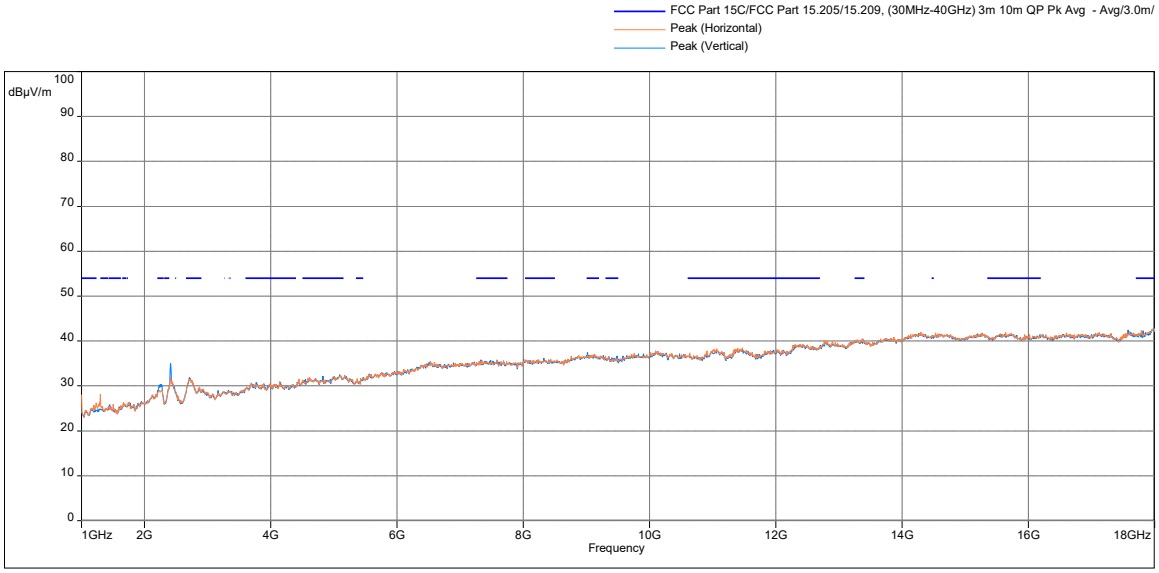


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
399.990	27.98	46.00	-18.02	317.05	Horizontal	-10.44
613.261	23.25	46.00	-22.75	359.98	Horizontal	-6.14
1000.000	30.63	54.00	-23.37	28.84	Horizontal	0.54
1000.000	29.75	54.00	-24.25	172.84	Vertical	0.54
609.349	21.32	46.00	-24.68	122.72	Vertical	-6.35
610.868	21.29	46.00	-24.71	52.89	Horizontal	-6.26

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



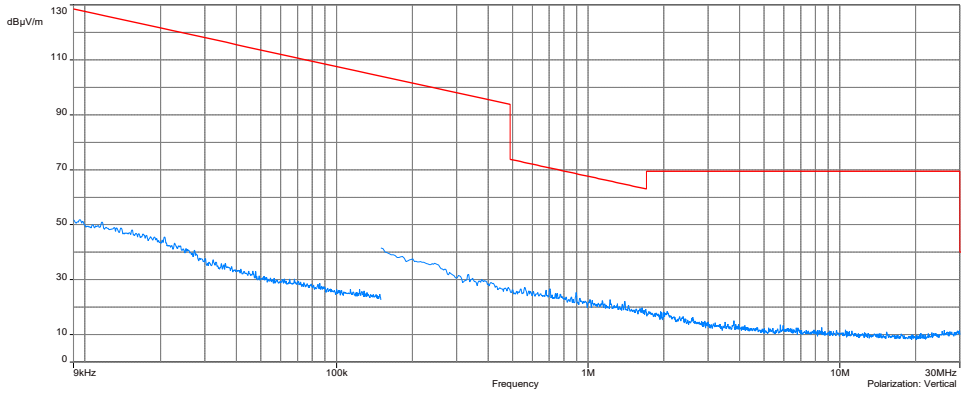
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17962.60	Peak	52.77	74.00	-21.23	334.19	Vertical	3.72
17790.90	Peak	52.55	74.00	-21.45	62.03	Horizontal	3.37
15771.30	Peak	52.29	74.00	-21.71	263.41	Horizontal	4.06
18000.00	Average	42.93	54.00	-11.07	0.00	Vertical	3.71
17996.03	Average	42.69	54.00	-11.31	0.00	Horizontal	3.71
11466.90	Average	38.54	54.00	-15.46	166.71	Horizontal	3.32

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

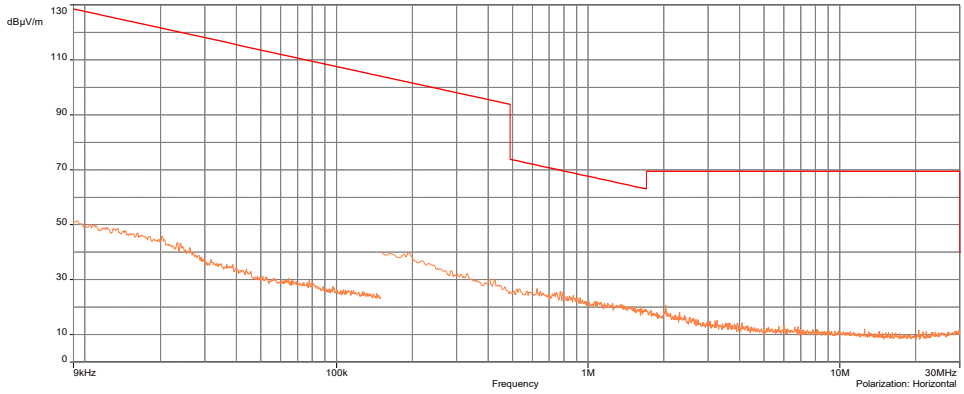
Test Results: 15.209 Radiated Spurious Emissions Mid Channel
Tx at 802.11ax20, 2437MHz, Charging Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

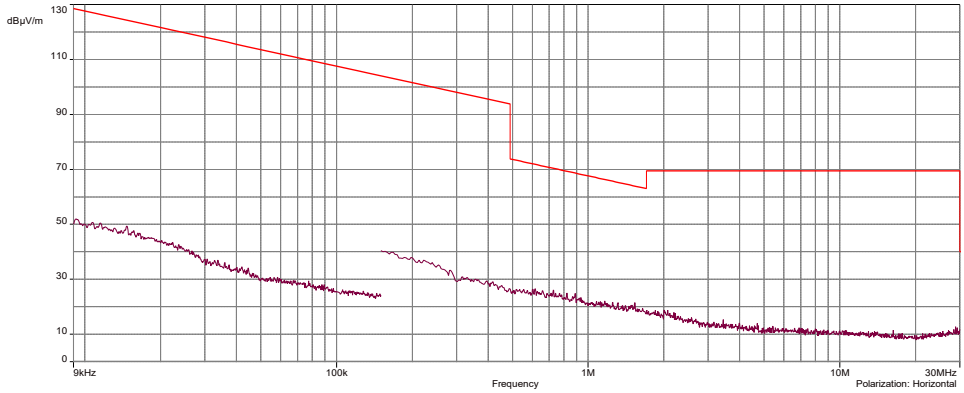
Antenna Position - Coaxial



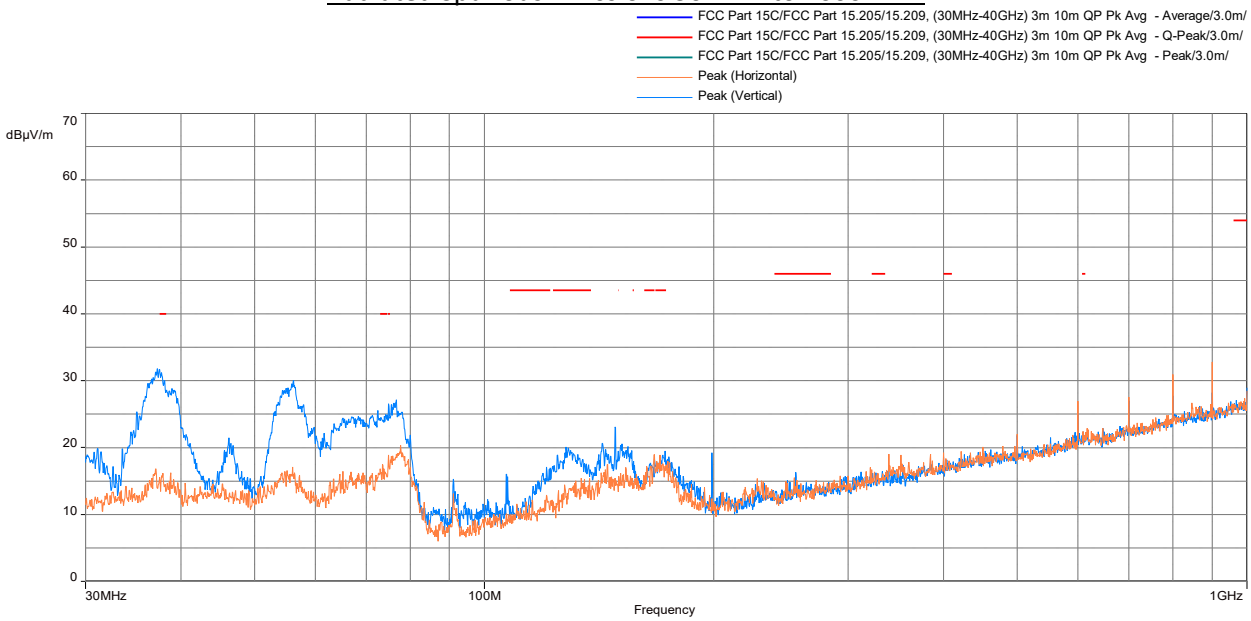
Antenna Position - Coplanar



Antenna Position - Horizontal

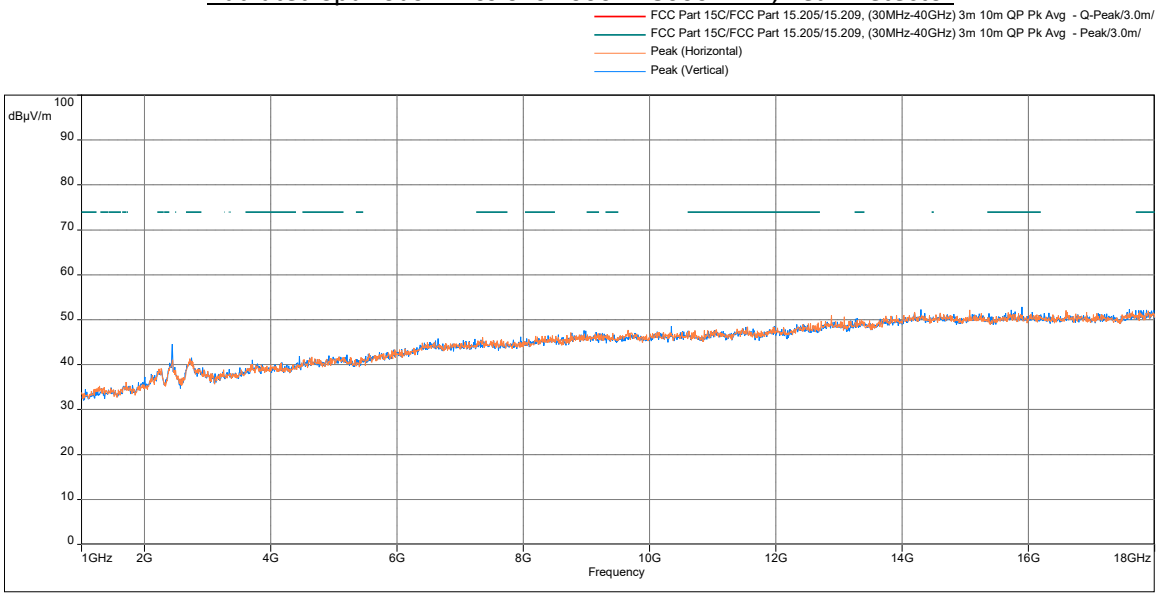


Radiated Spurious Emissions 30 MHz to 1000 MHz

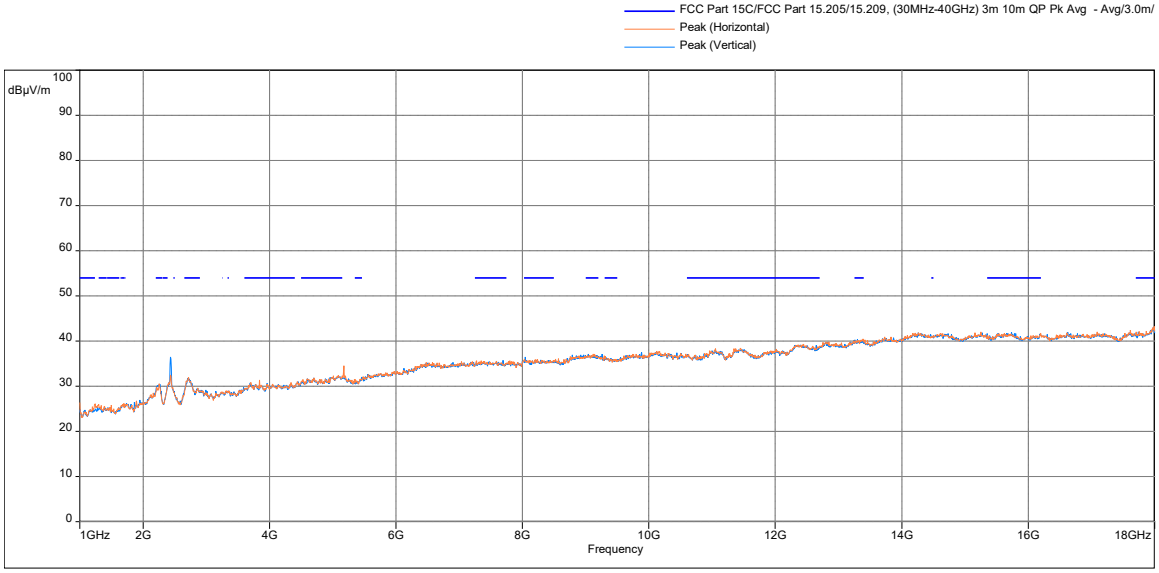


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
74.879	18.87	40.00	-21.13	213.23	Horizontal	-17.11
73.585	17.49	40.00	-22.51	222.44	Horizontal	-16.73
73.036	16.85	40.00	-23.15	245.70	Horizontal	-16.58
128.002	20.12	43.50	-23.38	311.94	Vertical	-15.68
609.478	22.41	46.00	-23.59	175.14	Horizontal	-6.35
609.995	22.38	46.00	-23.62	148.79	Vertical	-6.35

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



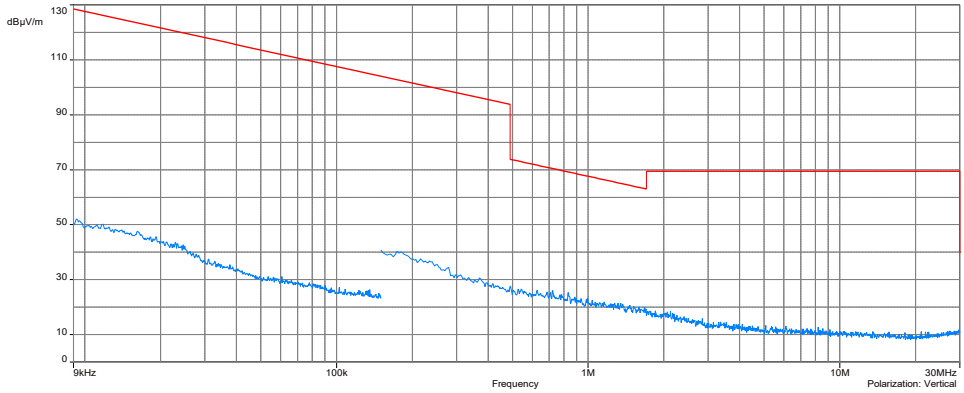
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
15899.37	Peak	52.87	74.00	-21.13	96.59	Vertical	4.21
17872.50	Peak	52.15	74.00	-21.85	104.15	Vertical	3.52
17899.70	Peak	52.03	74.00	-21.97	0.01	Horizontal	3.59
17995.47	Average	43.25	54.00	-10.75	120.34	Horizontal	3.71
17981.87	Average	42.98	54.00	-11.02	239.65	Vertical	3.71
15737.87	Average	41.95	54.00	-12.05	0.00	Vertical	4.06

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

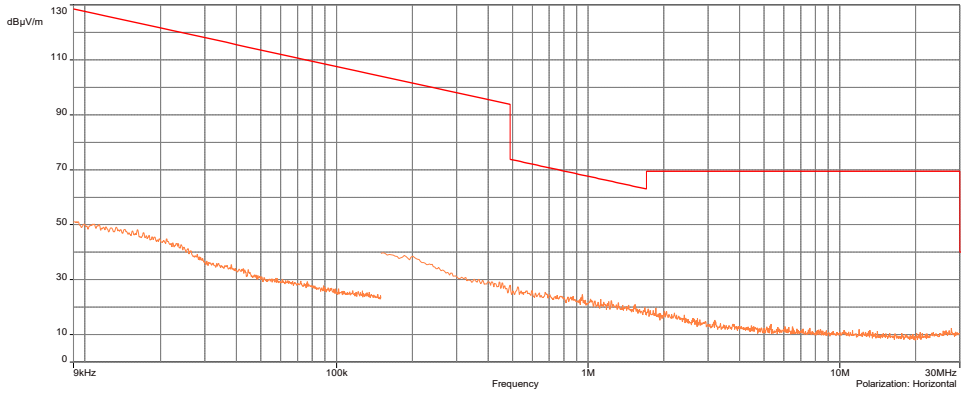
Test Results: 15.209 Radiated Spurious Emissions Mid Channel
Tx at 802.11ax20, 2437MHz, Battery Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

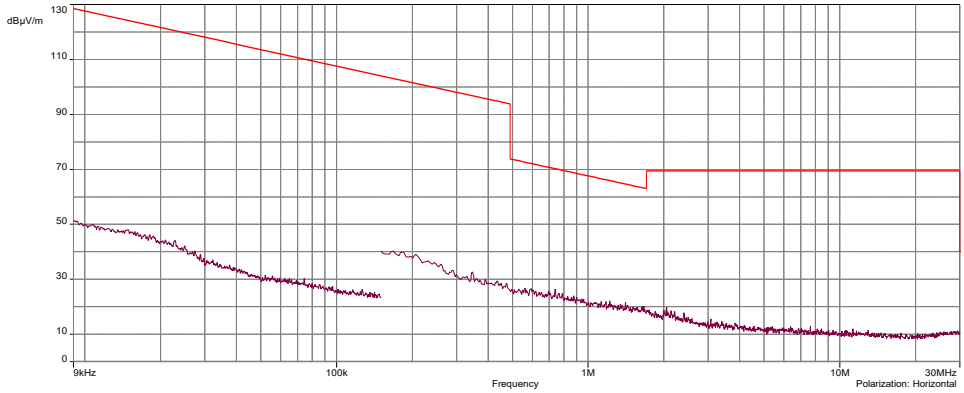
Antenna Position - Coaxial



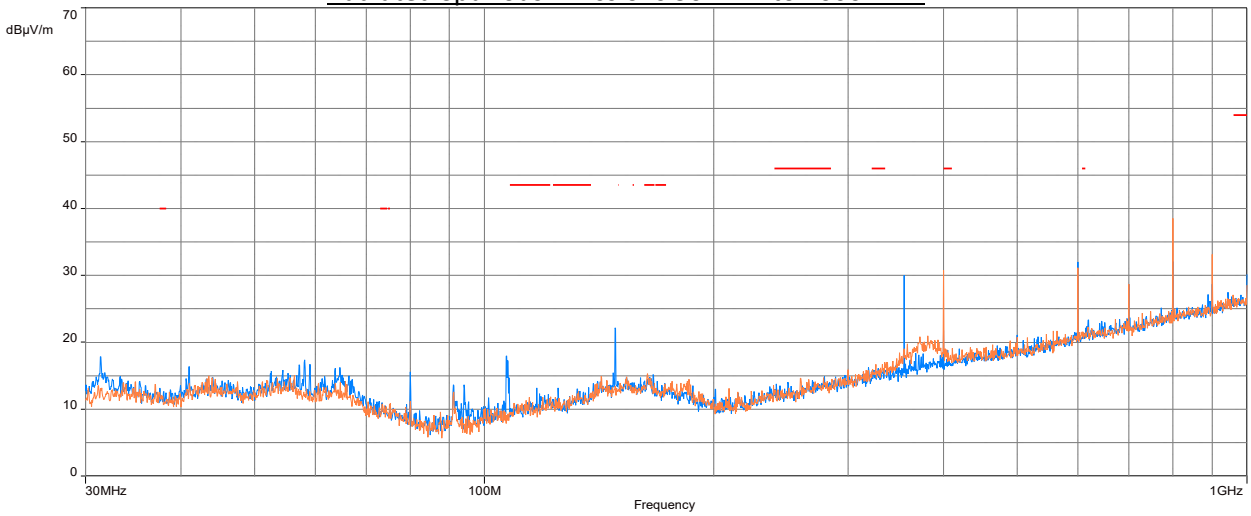
Antenna Position - Coplanar



Antenna Position - Horizontal

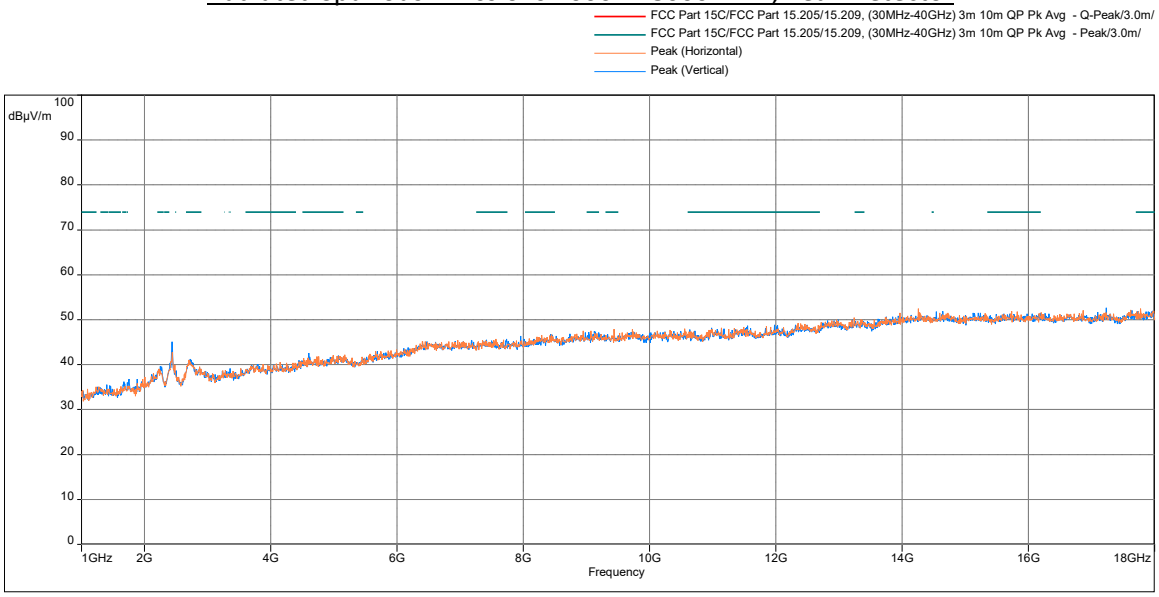


Radiated Spurious Emissions 30 MHz to 1000 MHz

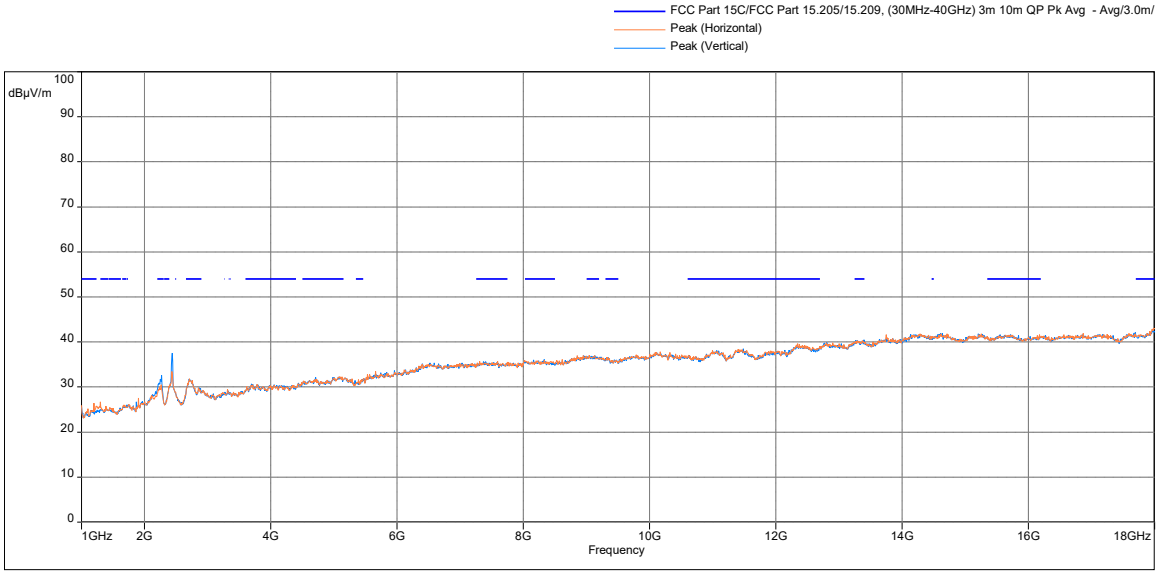


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
399.990	30.74	46.00	-15.26	317.85	Horizontal	-10.44
1000.000	30.18	54.00	-23.82	196.88	Vertical	0.54
399.990	21.75	46.00	-24.25	125.53	Vertical	-10.44
609.834	21.59	46.00	-24.41	249.30	Horizontal	-6.35
613.455	21.40	46.00	-24.60	115.02	Horizontal	-6.14
612.194	21.37	46.00	-24.63	86.65	Vertical	-6.22

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



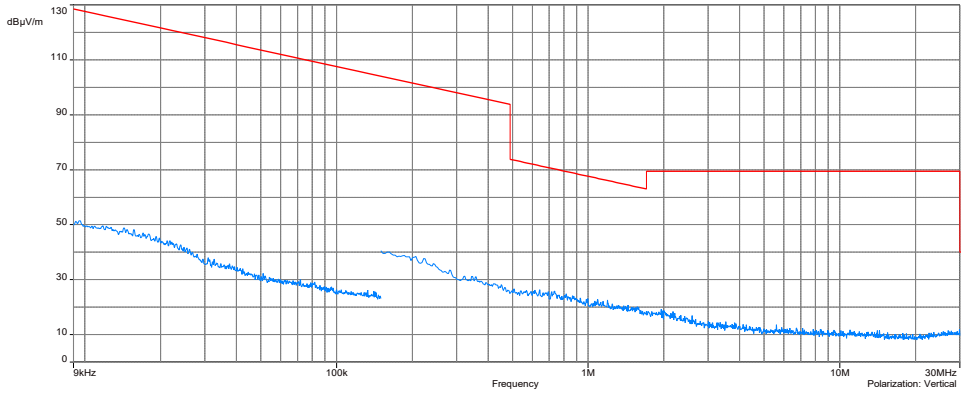
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17773.90	Peak	52.47	74.00	-21.53	176.65	Horizontal	3.37
17970.53	Peak	51.97	74.00	-22.03	226.34	Vertical	3.71
15734.47	Peak	51.94	74.00	-22.06	262.62	Horizontal	4.06
17999.43	Average	43.54	54.00	-10.46	74.77	Horizontal	3.71
17963.73	Average	42.74	54.00	-11.26	359.99	Vertical	3.72
11486.17	Average	38.50	54.00	-15.50	55.76	Vertical	3.24

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

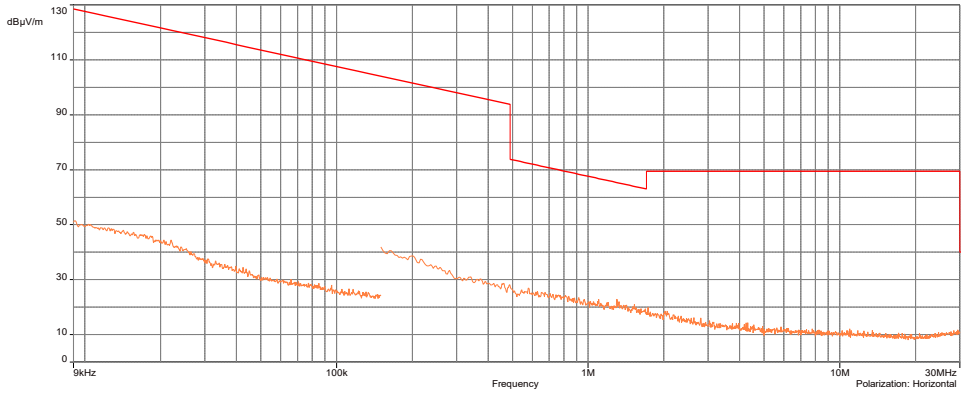
Test Results: 15.209 Radiated Spurious Emissions High Channel
Tx at 802.11ax20, 2462MHz, Charging Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

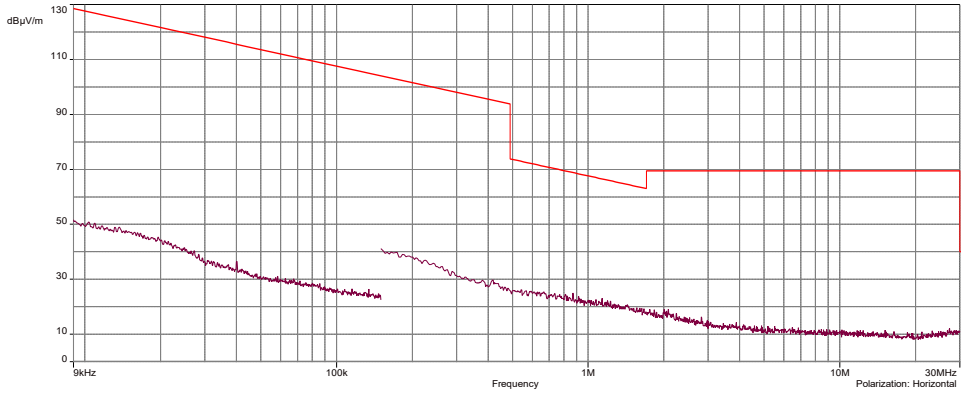
Antenna Position - Coaxial



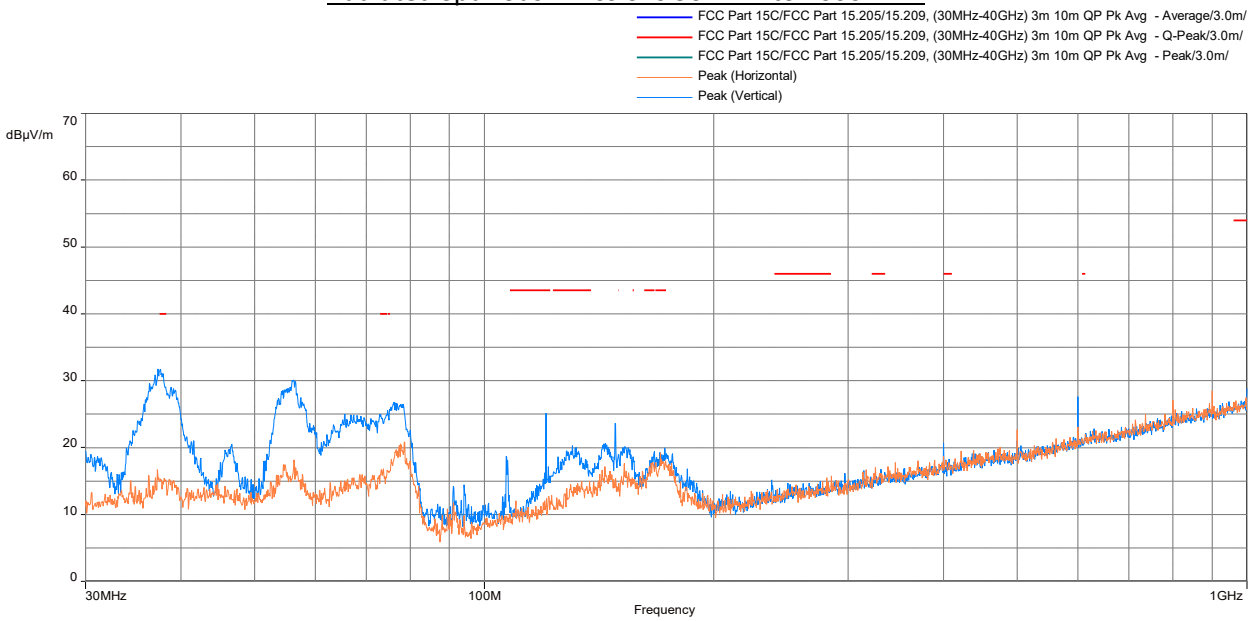
Antenna Position - Coplanar



Antenna Position - Horizontal

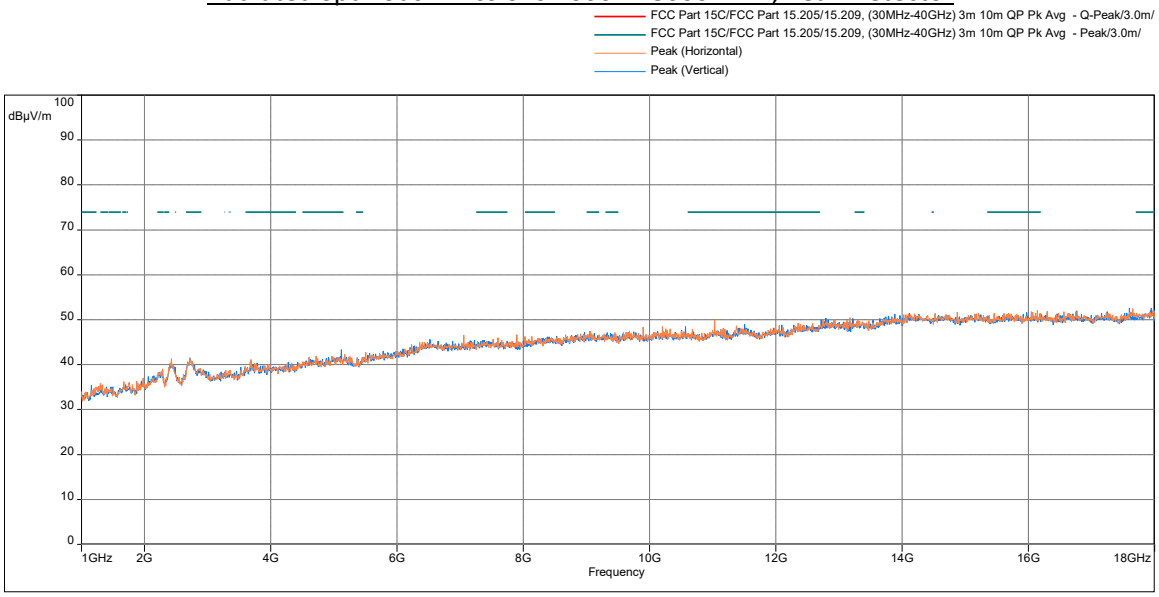


Radiated Spurious Emissions 30 MHz to 1000 MHz

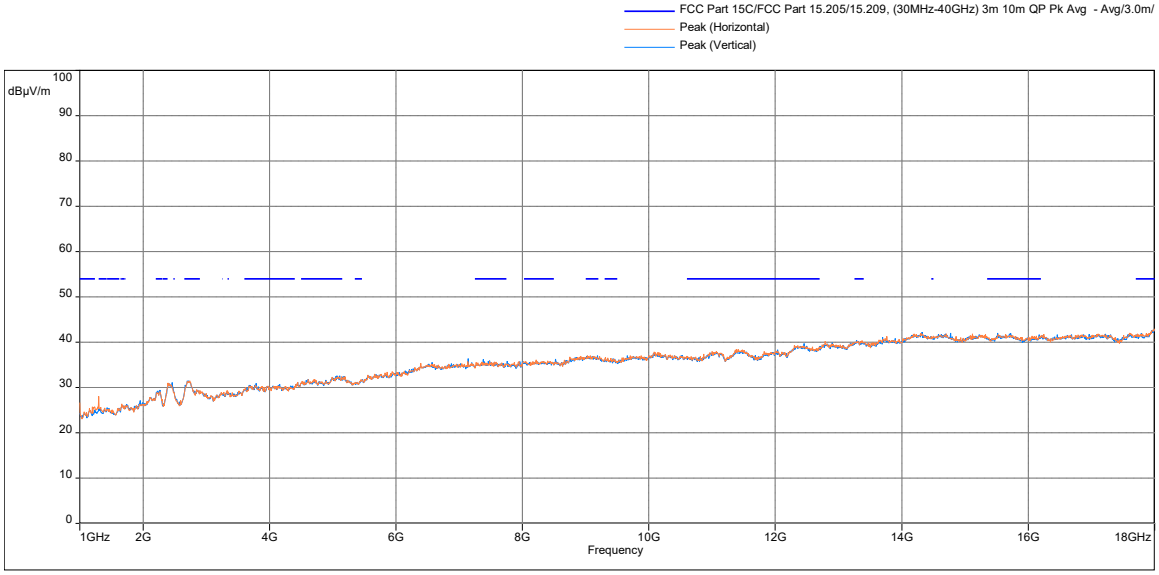


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
120.501	25.13	43.50	-18.37	54.18	Vertical	-16.22
130.492	20.33	43.50	-23.17	160.02	Vertical	-15.42
172.461	19.96	43.50	-23.54	121.93	Vertical	-14.13
167.061	19.43	43.50	-24.07	162.83	Vertical	-13.54
170.230	19.24	43.50	-24.26	130.64	Horizontal	-13.79
149.989	19.00	43.50	-24.50	172.04	Vertical	-13.60

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



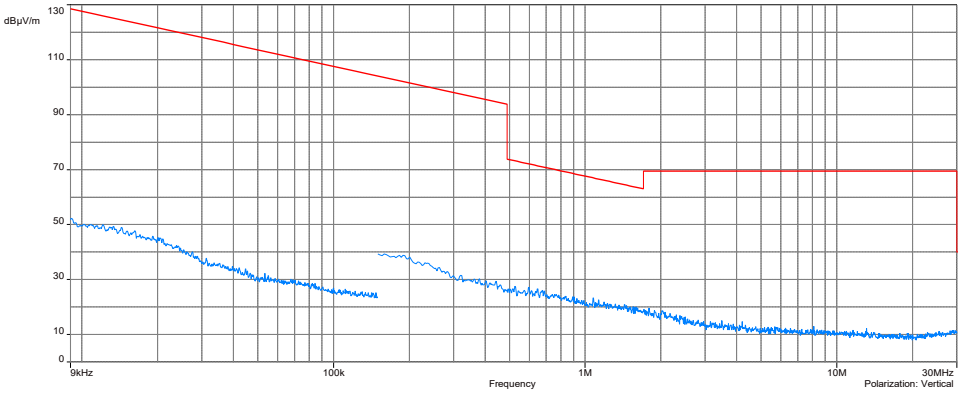
Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17943.33	Peak	52.54	74.00	-21.46	183.35	Vertical	3.70
16143.03	Peak	52.12	74.00	-21.88	83.92	Horizontal	4.04
15973.60	Peak	51.62	74.00	-22.38	75.50	Vertical	4.22
18000.00	Average	42.99	54.00	-11.01	28.40	Horizontal	3.71
17993.20	Average	42.65	54.00	-11.35	193.28	Vertical	3.71
2718.70	Average	31.51	54.00	-22.49	239.65	Vertical	-2.27

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

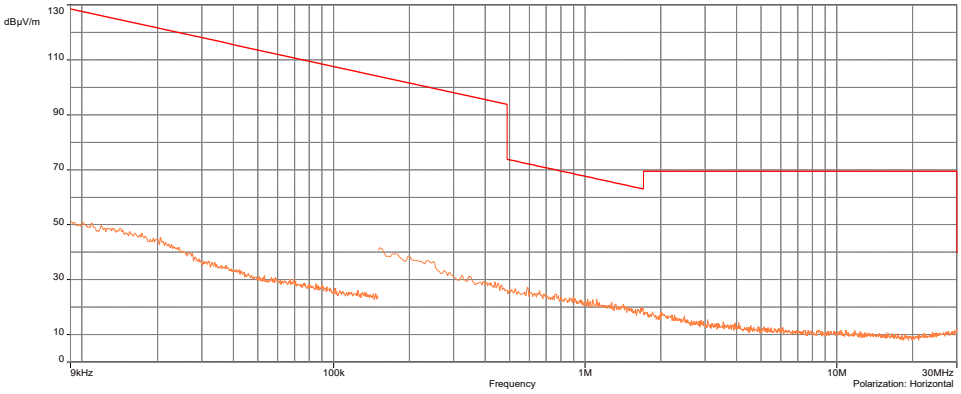
Test Results: 15.209 Radiated Spurious Emissions High Channel
Tx at 802.11ax20, 2462MHz, Battery Mode

Radiated Spurious Emissions 9 kHz to 30 MHz

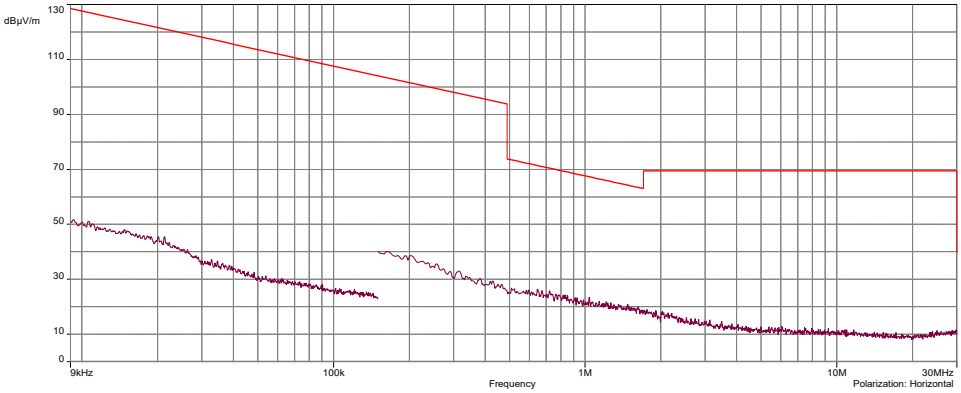
Antenna Position - Coaxial



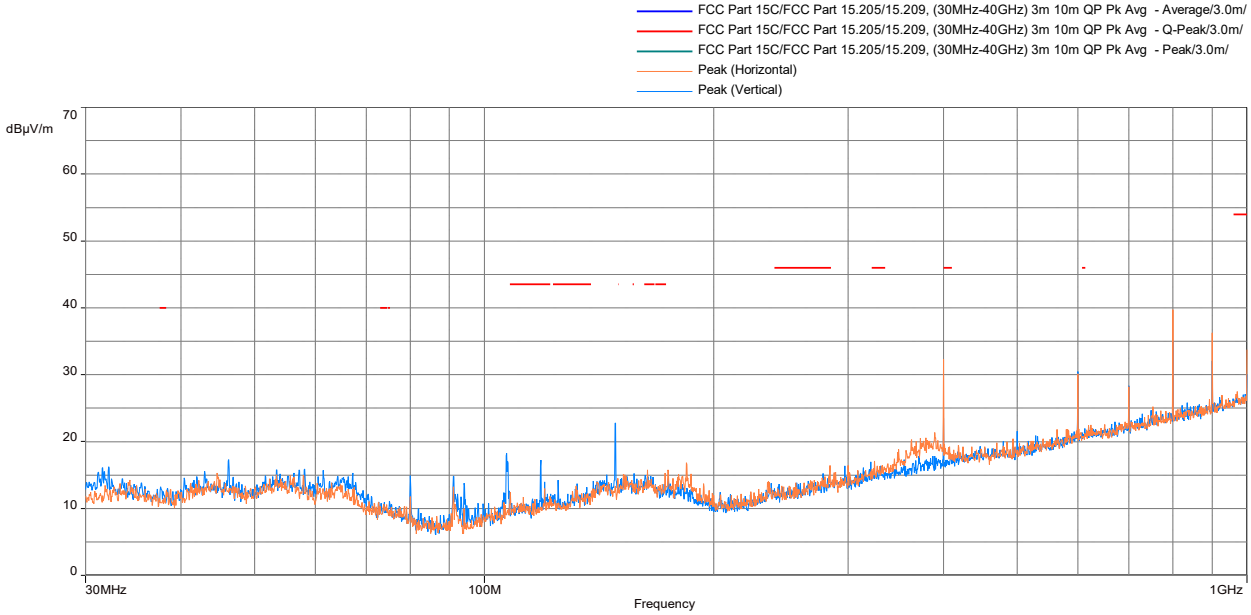
Antenna Position - Coplanar



Antenna Position - Horizontal

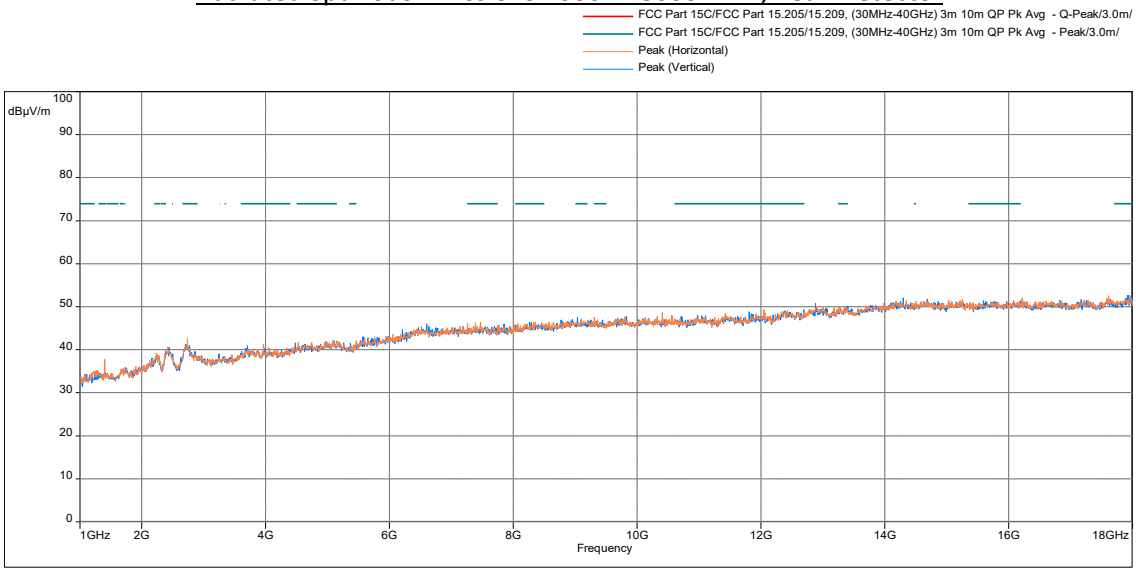


Radiated Spurious Emissions 30 MHz to 1000 MHz

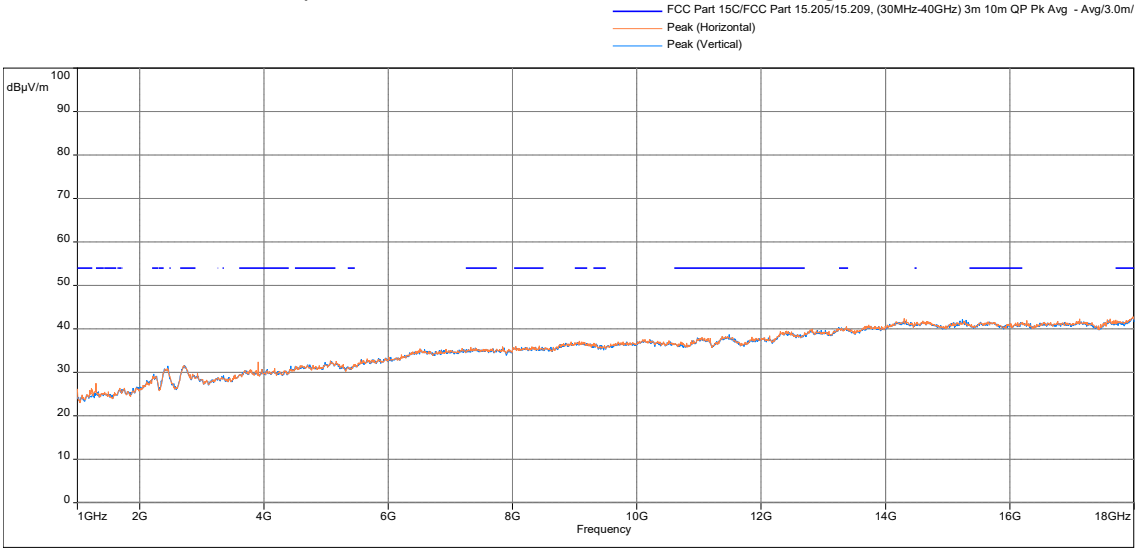


Freq. (MHz)	QPeak@ 3m (dBµV/m)	Lim. QPeak @3m (dBµV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
399.990	32.30	46.00	-13.70	315.04	Horizontal	-10.44
1000.000	33.73	54.00	-20.27	44.46	Horizontal	0.54
400.023	23.51	46.00	-22.49	119.12	Vertical	-10.44
1000.000	30.10	54.00	-23.90	225.75	Vertical	0.54
612.873	21.98	46.00	-24.02	112.71	Vertical	-6.16
118.593	17.24	43.50	-26.26	97.88	Vertical	-16.37

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Detector



Radiated Spurious Emissions 1000 - 18000 MHz, Average Detector



Freq. (MHz)	Detector Mode PK/QP/AV	FS (dBµV/m)	PK/AV Limit dB(µV/m)	Margin (dB)	Angle (°)	Polarity	Correction (dB)
17915.57	Peak	52.68	74.00	-21.32	39.28	Vertical	3.63
17964.30	Peak	52.57	74.00	-21.43	77.15	Horizontal	3.72
15589.97	Peak	51.48	74.00	-22.52	169.03	Vertical	3.86
17998.30	Average	42.89	54.00	-11.11	10.46	Vertical	3.71
17977.33	Average	42.82	54.00	-11.18	73.97	Horizontal	3.71
11484.47	Average	38.70	54.00	-15.30	330.81	Vertical	3.25

Note: Radiated emission measurements were performed up to 25GHz. No Emissions were identified when scanned from 18-25 GHz

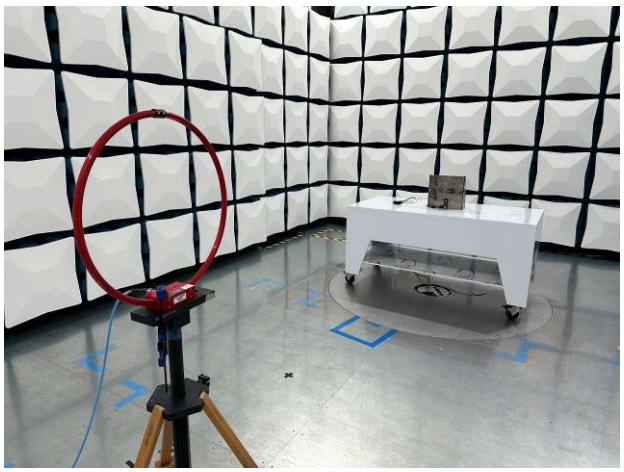
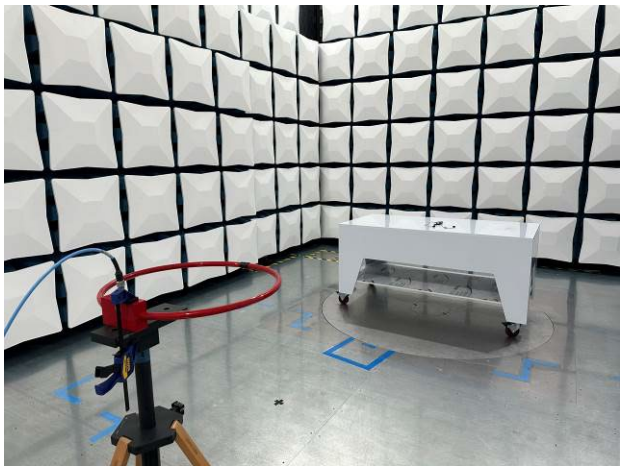
Results	Complies

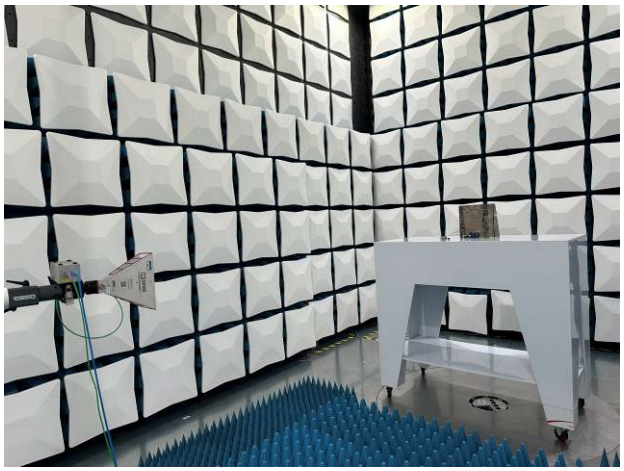
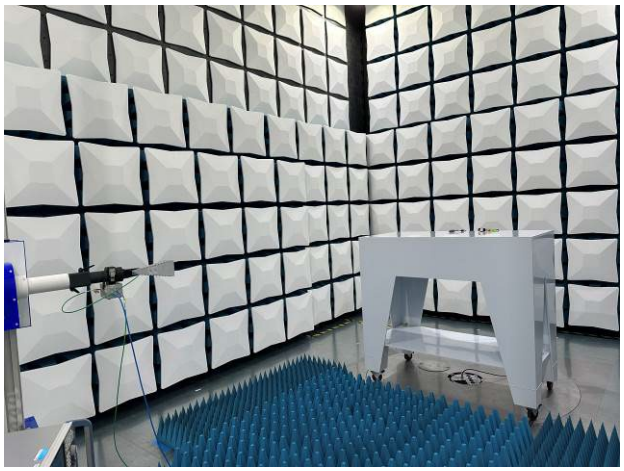
4.5.5 Test Setup Configuration

The following photographs show the testing configurations used.

Charging Mode

Battery Mode

5.0 List of Test Equipment

Equipment	Manufacturer	Model/Type	Asset #	Cal Int	Cal Due
EMI Receiver	Rohde and Schwarz	ESW44	ITS 02016	12	05/30/25
Loop Antenna	ETS-Lindgren	6512	ITS 01573	12	12/02/25
1-18GHz Horn Antenna	RF Spin	DRH18-E	ITS 02114	12	10/02/25
18-40GHz Horn Antenna	RF Spin	DRH0844	ITS 02115	12	10/03/25
Trilog Antenna	Schwarzbeck	VULB 9168	ITS 02097	12	08/21/25
9kHz-1GHz Preamplifier	Sonoma Instrument	310N	ITS 02129	12	10/02/25
1-18GHz Preamp	EMC Instruments	EMC118A45SE	ITS 02113	12	10/02/25
18-40GHz Preamp	EMC Instruments	EMC184045SE	ITS 02112	12	10/02/25
RF Cable	TRU Corporation	TRU CORE 300	ITS 01343	12	07/25/25
RF Cable	TRU Corporation	TRU CORE 300	ITS 01344	12	09/13/25
RF Cable	TRU Corporation	TRU CORE 300	ITS 01466	12	01/18/25
RF Cable	Absolute EMC	50915-236	ITS 02109	12	08/19/25
RF Cable	Absolute EMC	50586-39	ITS 02098	12	08/19/25
RF Cable	Absolute EMC	50586-197	ITS 02099	12	08/19/25
Band Reject Filter	MICRO-TRONICS	BRM50716	ITS 02062	12	02/14/25

Software used for emission compliance testing utilized the following:

Name	Manufacturer	Version	Template/Profile
BAT-EMC	Nexio	3.20.0.23	Vocera Radio.bpp

6.0 Document History

Revision/ Job Number	Writer Initials	Reviewers Initials	Date	Change
1.0 / G105964951	GC	AS	January 29, 2025	Original Document

END OF REPORT