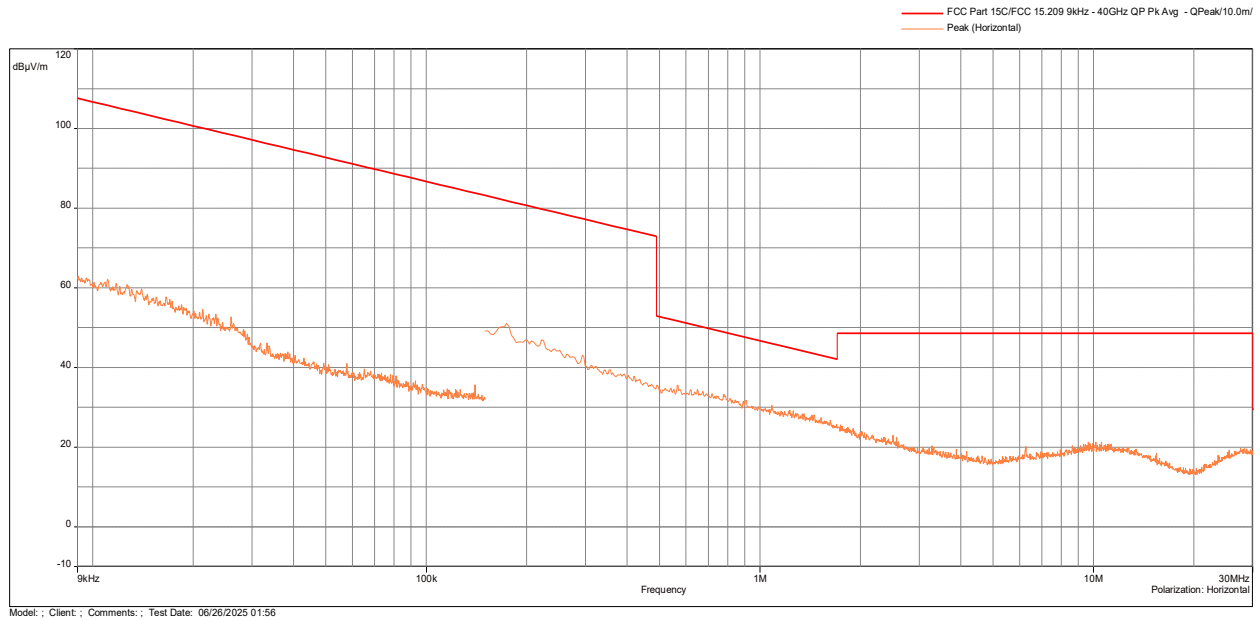
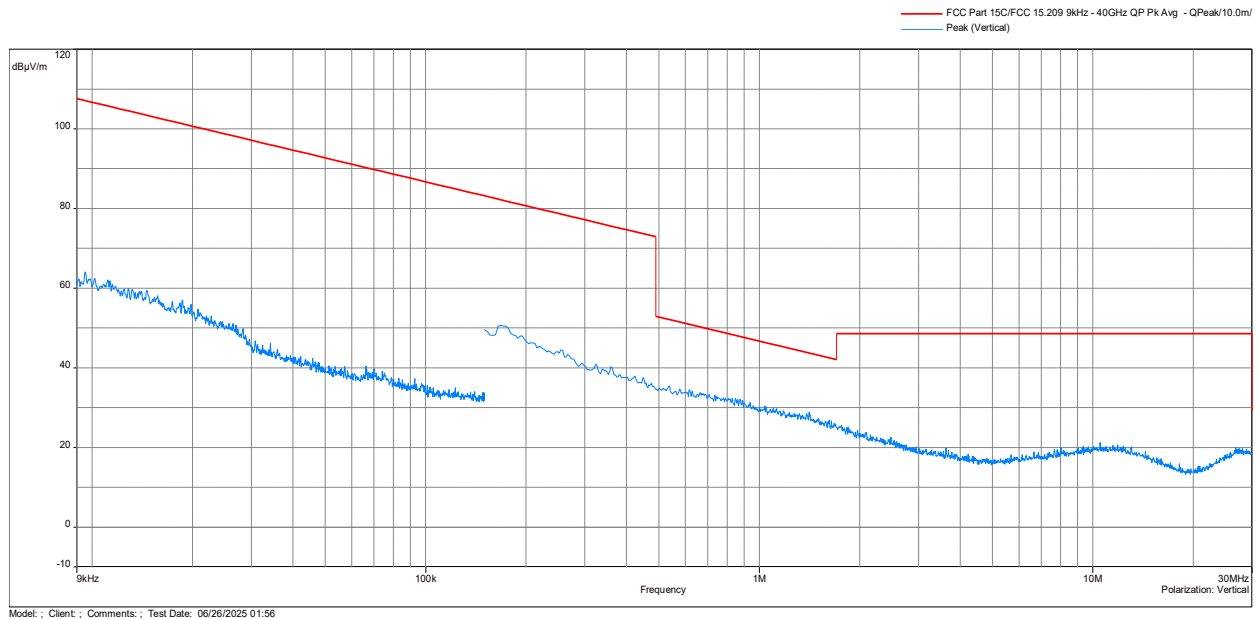


Out-of-Band Radiated Spurious Emissions

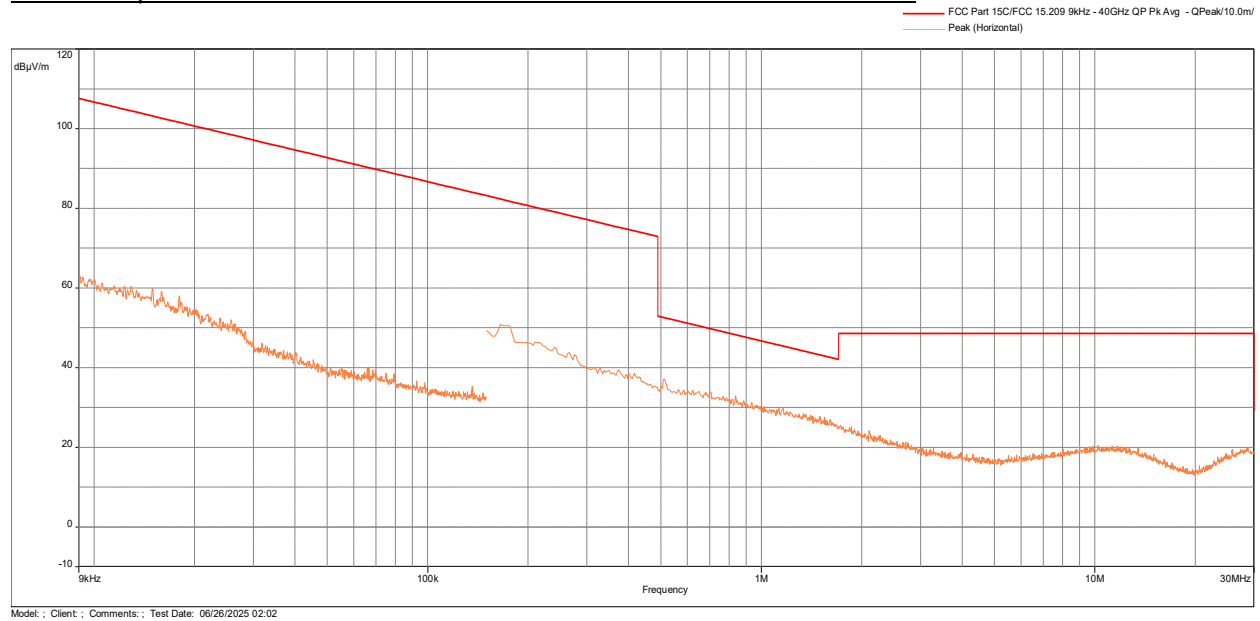
Radiated Spurious Emissions 9kHz - 30 MHz Parallel Antenna Polarization



Radiated Spurious Emissions 9kHz - 30 MHz Perpendicular Antenna Polarization

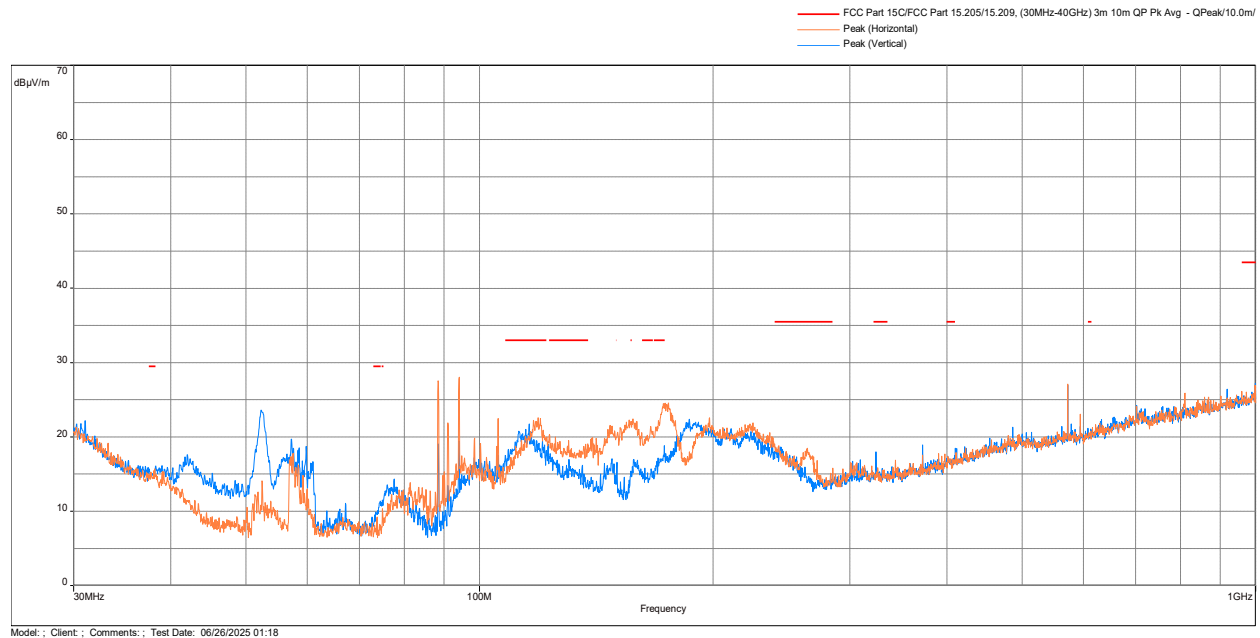


Radiated Spurious Emissions 9kHz - 30 MHz Horizontal Antenna Polarization



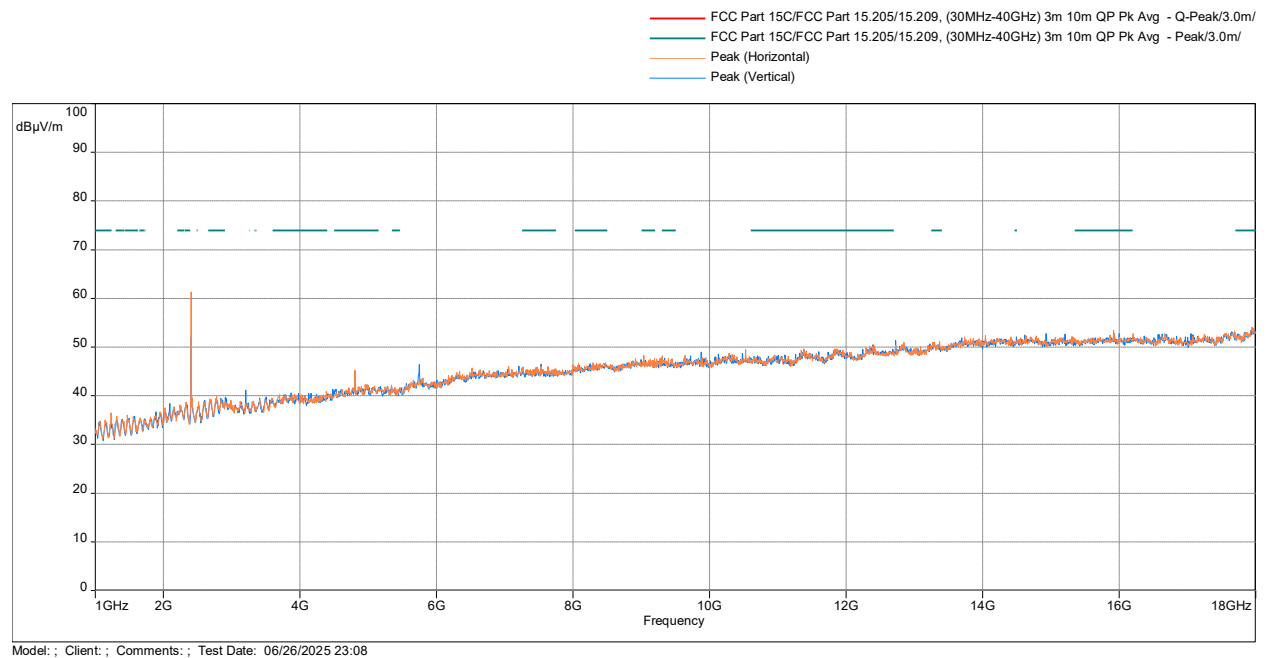
Test Results: 15.209 Radiated Spurious Emissions Low Channel, Tx at 2402MHz

Radiated Spurious Emissions 30 MHz - 1000 MHz



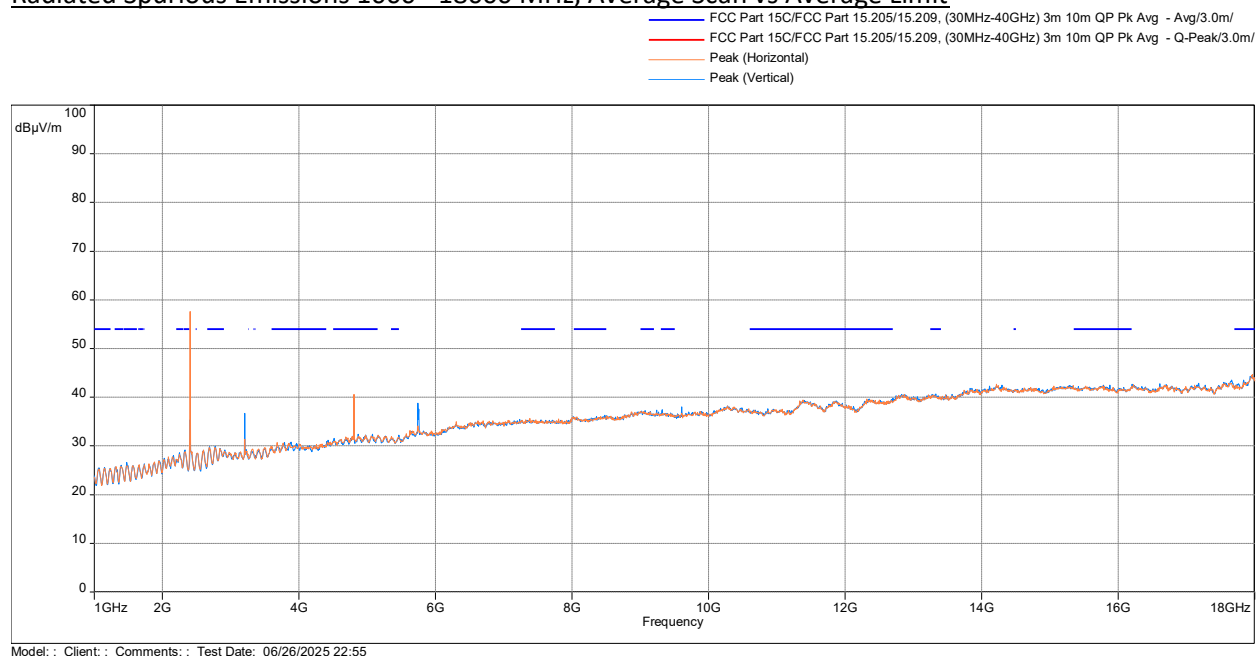
Frequency (MHz)	QP (dBμV/m)	Limit QP (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)
118.9813	22.59	33	-10.41	3	8	Horizontal	-12.8
115.8773	21.75	33	-11.25	1	80.5	Vertical	-13.23
125.254	19.99	33	-13.01	3	31.5	Horizontal	-12.37
120.5333	19.62	33	-13.38	1	230	Vertical	-12.69
130.4273	16.97	33	-16.03	1	277	Vertical	-12.44
999.6443	27.33	43.5	-16.17	1	358	Vertical	1.91

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



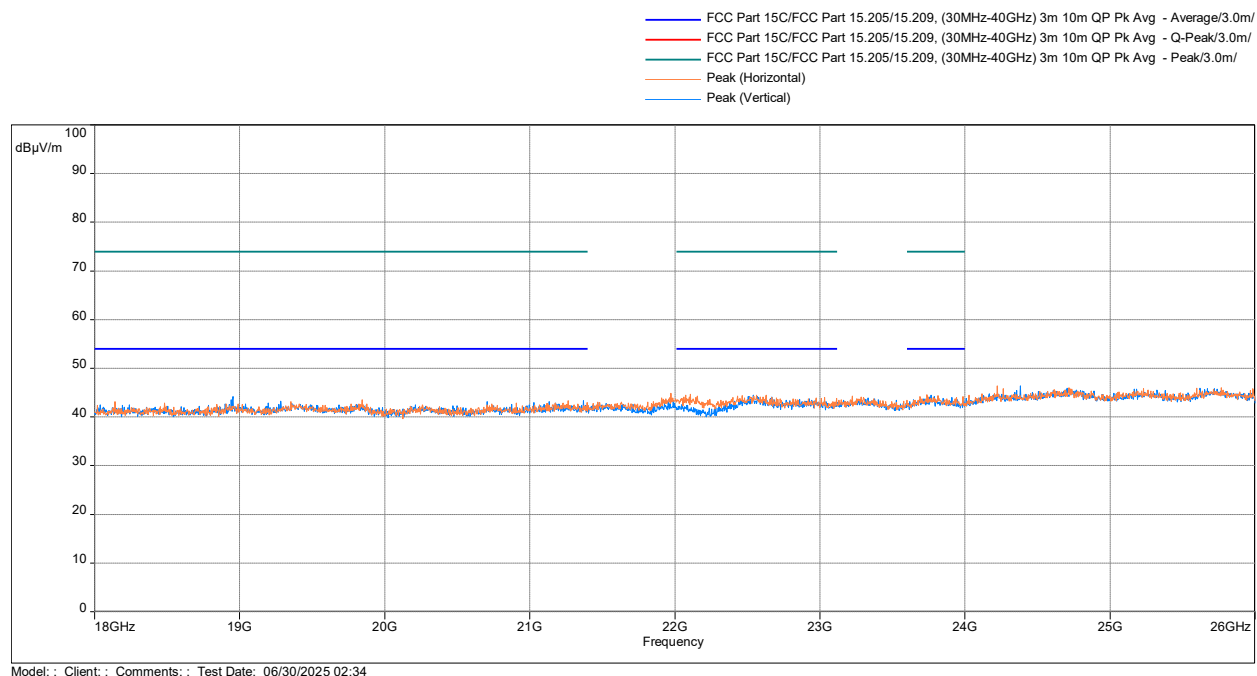
Frequency (MHz)	Peak (dBμV/m)	Limit Peak (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)
4804.033	45.3	74	-28.7	2	217.56	Horizontal	1.36
4803.467	45.11	74	-28.89	2	32.01	Vertical	1.36

Radiated Spurious Emissions 1000 - 18000 MHz, Average Scan vs Average Limit



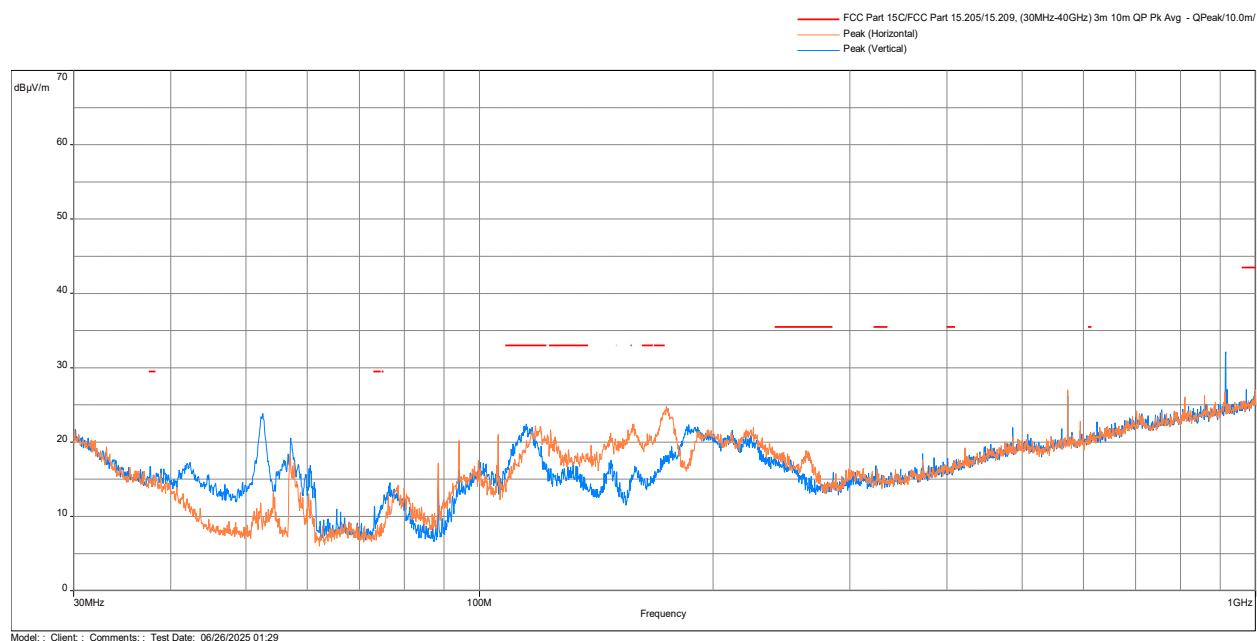
Frequency (MHz)	Average (dBμV/m)	Limit Average (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)
4804.033	40.6	54	-13.4	2	203.7	Horizontal	1.36
4804.033	40.01	54	-13.99	2	40.38	Vertical	1.36

Radiated Spurious Emissions 18 – 26 GHz, Peak Scan vs Peak & Average Limit



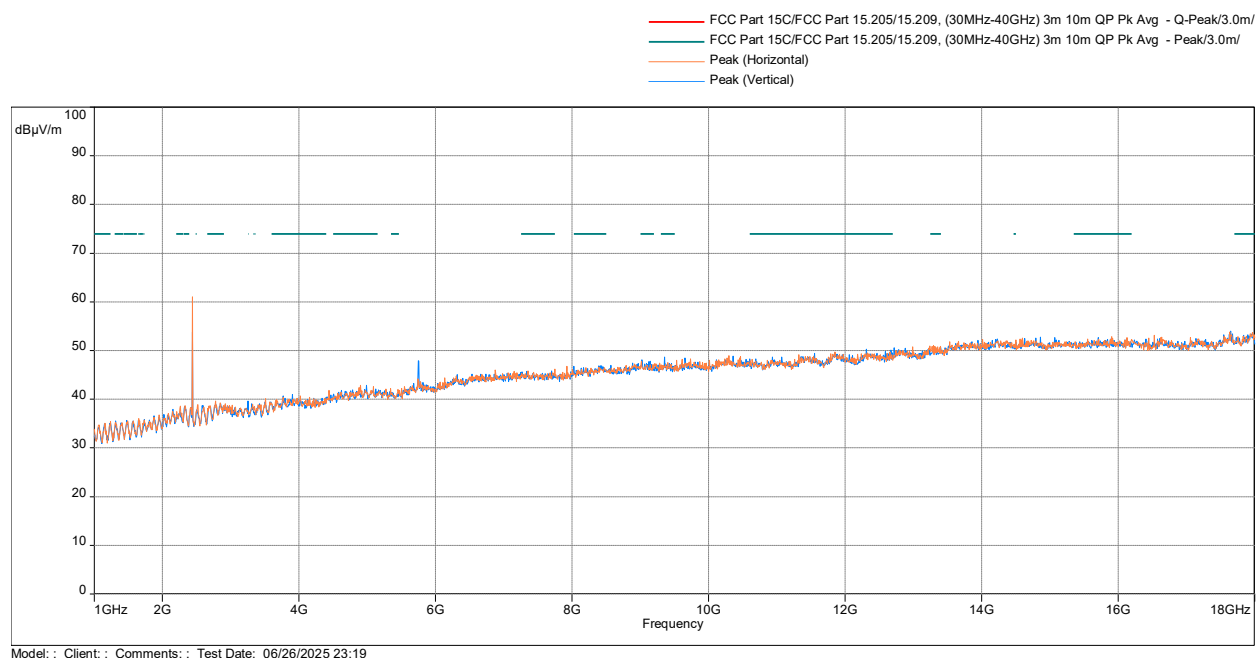
Test Results: 15.209 Radiated Spurious Emissions Mid Channel, Tx at 2440MHz

Radiated Spurious Emissions 30 MHz - 1000 MHz



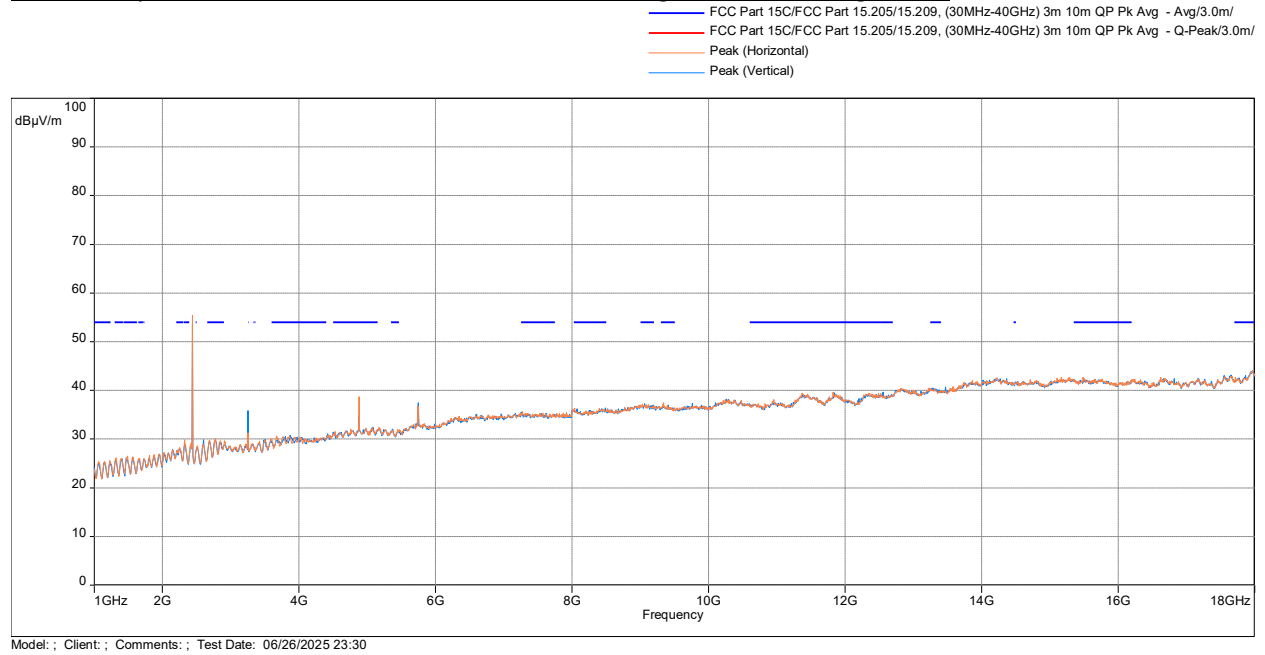
Frequency (MHz)	QP (dBμV/m)	Limit QP (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)
114.875	22.44	33	-10.56	1	260.25	Vertical	-13.38
118.0113	22.17	33	-10.83	3	357	Horizontal	-12.98
123.4757	21.66	33	-11.34	3	355	Horizontal	-12.52
125.1247	20.69	33	-12.31	3	355	Horizontal	-12.37
613.261	21.32	35.5	-14.18	2	294.75	Horizontal	-5.76
132.0117	17.25	33	-15.75	1	258.25	Vertical	-12.51

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



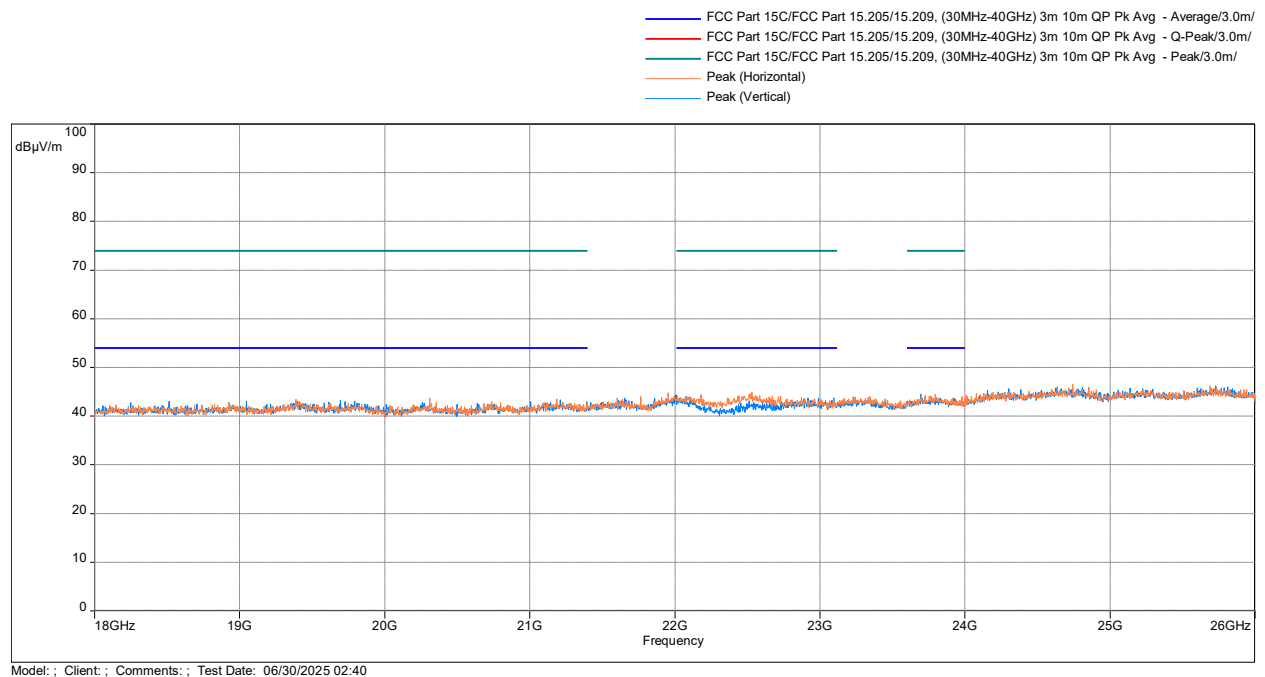
Frequency (MHz)	Peak (dBμV/m)	Limit Peak (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)
4879.967	42.91	74	-31.09	1.75	209.58	Horizontal	1.59
4879.4	42.88	74	-31.12	1.25	283.71	Vertical	1.68

Radiated Spurious Emissions 1000 - 18000 MHz, Average Scan vs Average Limit



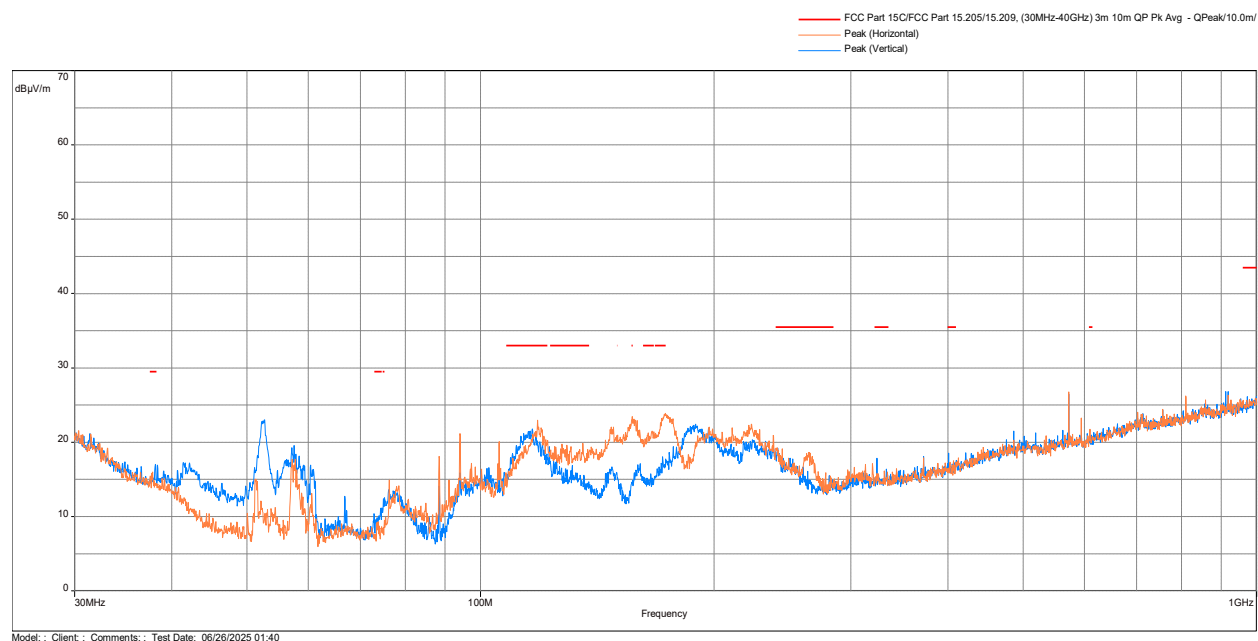
Frequency (MHz)	Average (dBμV/m)	Limit Average (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)
4879.967	38.71	54	-15.29	2	203.7	Horizontal	1.55
4879.4	34.75	54	-19.25	1.75	28.83	Vertical	1.55

Radiated Spurious Emissions 18 – 26 GHz, Peak Scan vs Peak & Average Limit



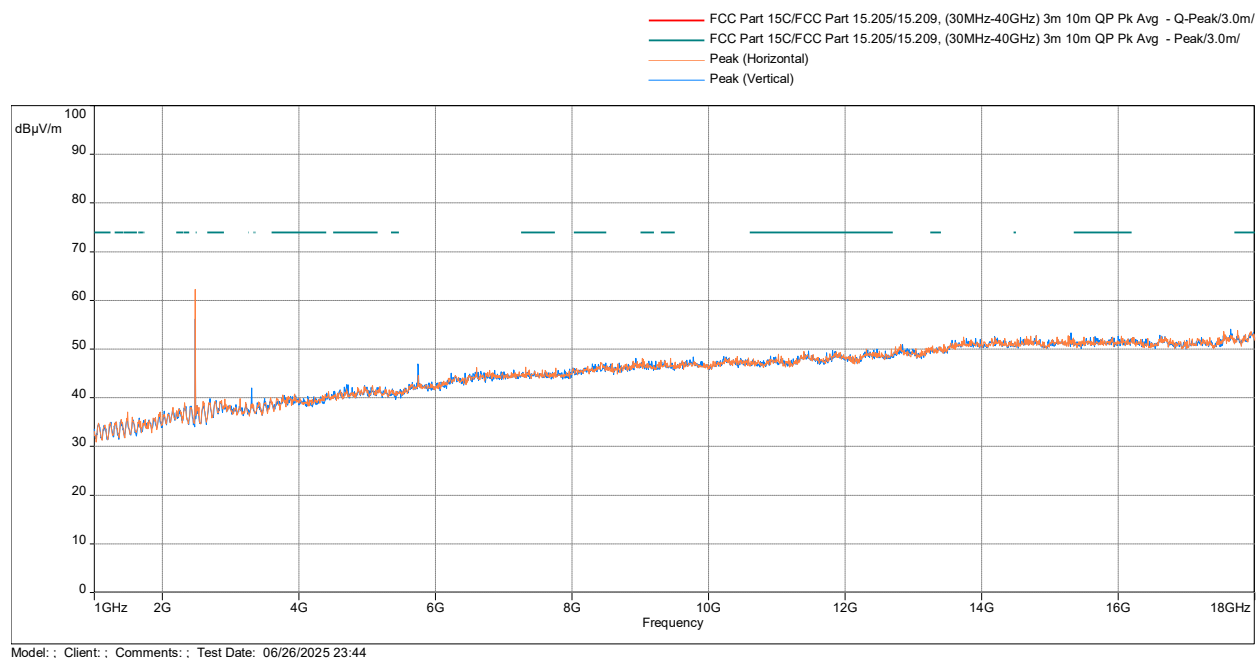
Test Results: 15.209 Radiated Spurious Emissions High Channel, Tx at 2480MHz

Radiated Spurious Emissions 30 MHz - 1000 MHz



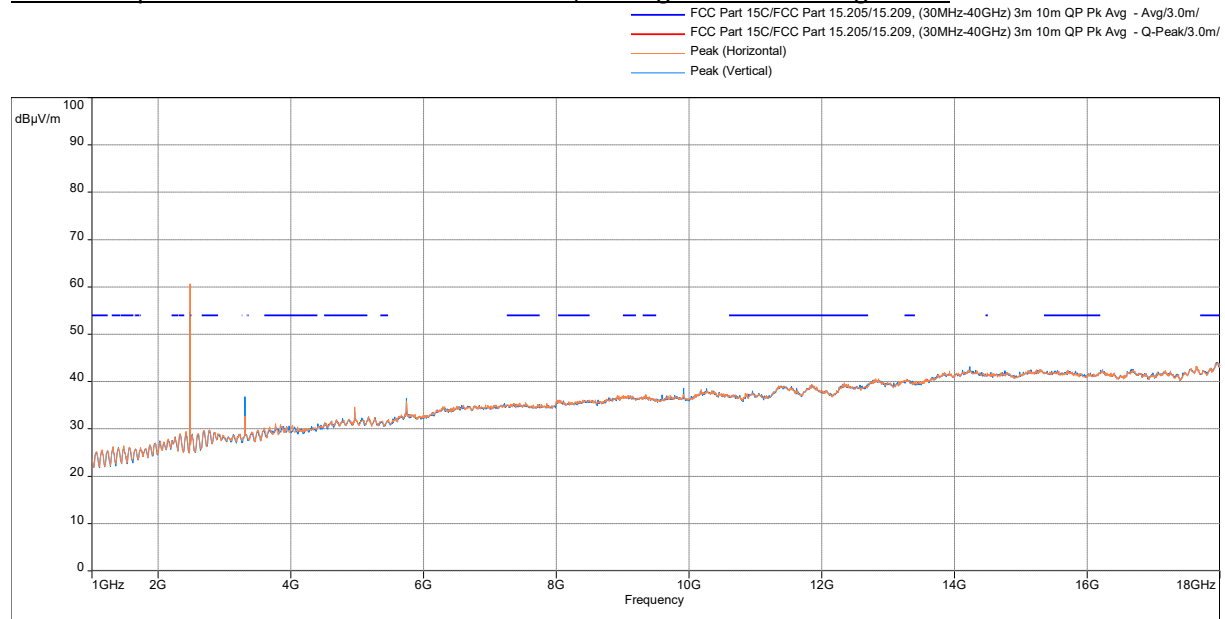
Frequency (MHz)	QP (dBμV/m)	Limit QP (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)
173.0427	23.9	33	-9.1	3	45.75	Horizontal	-14.81
156.876	23.44	33	-9.56	4	33.75	Horizontal	-14.12
118.4317	22.95	33	-10.05	3	357	Horizontal	-12.9
116.5887	21.79	33	-11.21	1	68.25	Vertical	-13.16
135.5037	19.82	33	-13.18	4	357.75	Horizontal	-12.71
127.3557	19.75	33	-13.25	4	187.5	Horizontal	-12.38

Radiated Spurious Emissions 1000 - 18000 MHz, Peak Scan vs Peak Limit



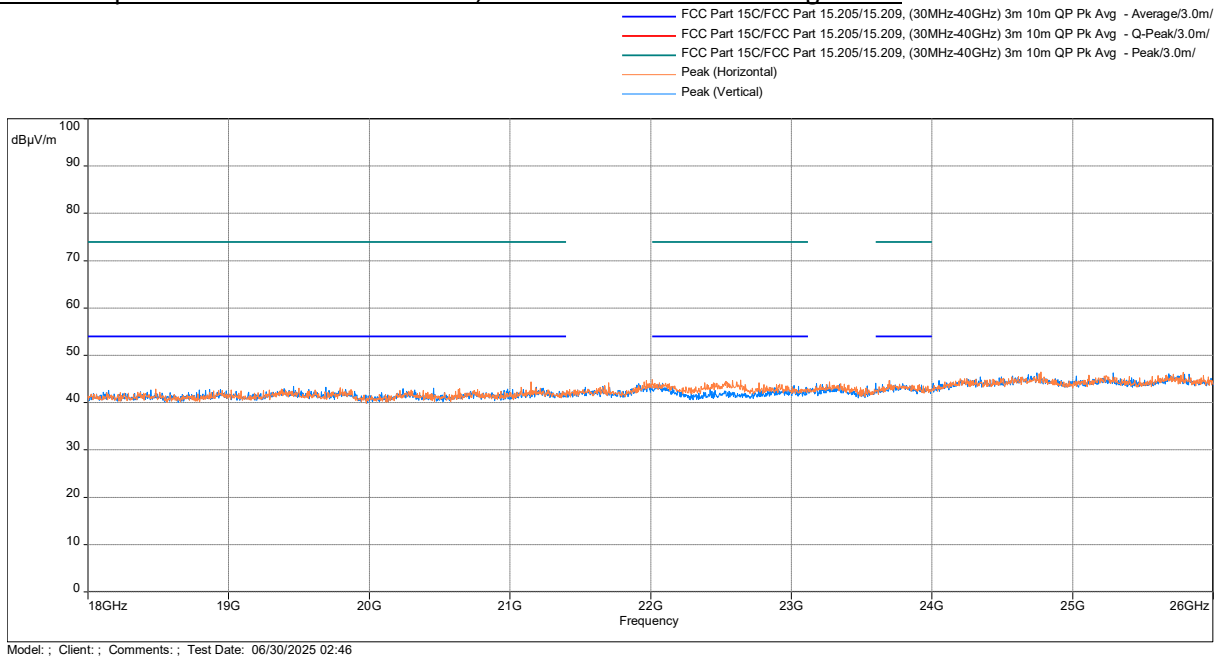
Frequency (MHz)	Peak (dBμV/m)	Limit Peak (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)
4959.867	42.52	74	-31.48	1.75	207.12	Vertical	1.65
4959.867	41.17	74	-32.83	1.49	86.73	Horizontal	1.65

Radiated Spurious Emissions 1000 - 18000 MHz, Average Scan vs Average Limit



Frequency (MHz)	Average (dBμV/m)	Limit Average (dBμV/m)	Margin (dB)	Height (m)	Angle (°)	Polarization	Correction (dB)
4959.867	33.6	54	-20.4	2	41.37	Vertical	1.65
4959.867	34.62	54	-19.38	2	204.69	Horizontal	1.65

Radiated Spurious Emissions 18 – 26 GHz, Peak Scan vs Peak & Average Limit



Results

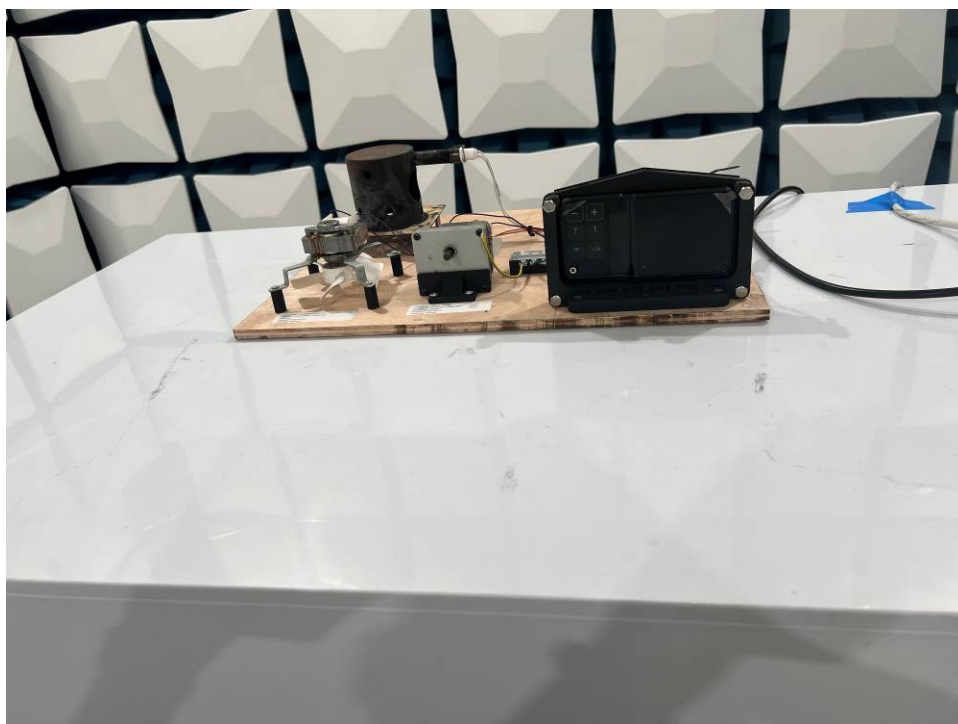
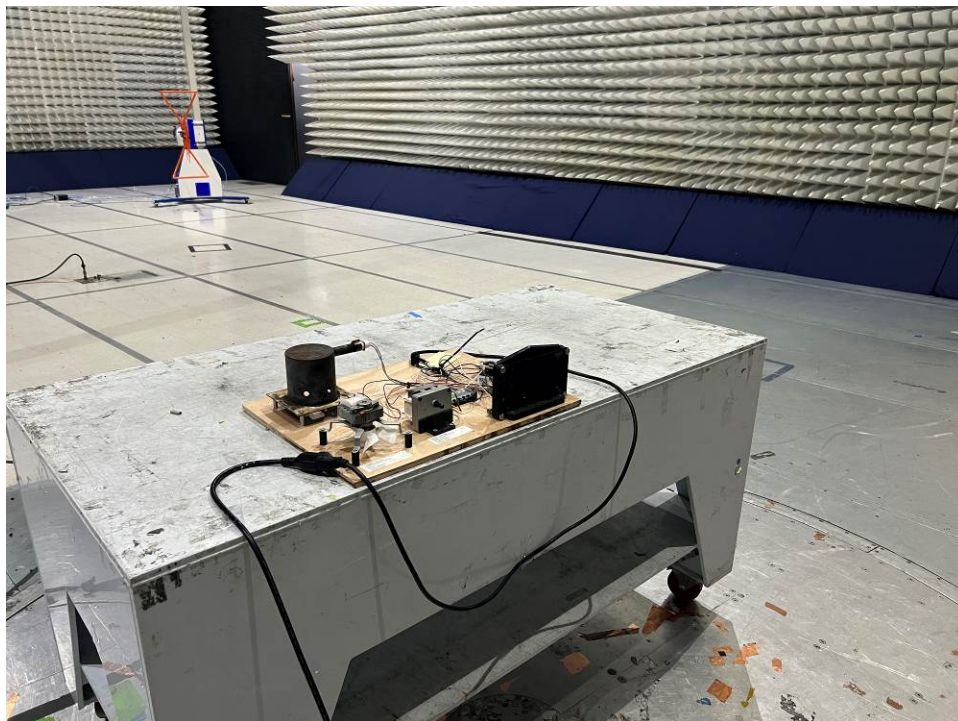
Complies

4.5.5 Test Setup Configuration

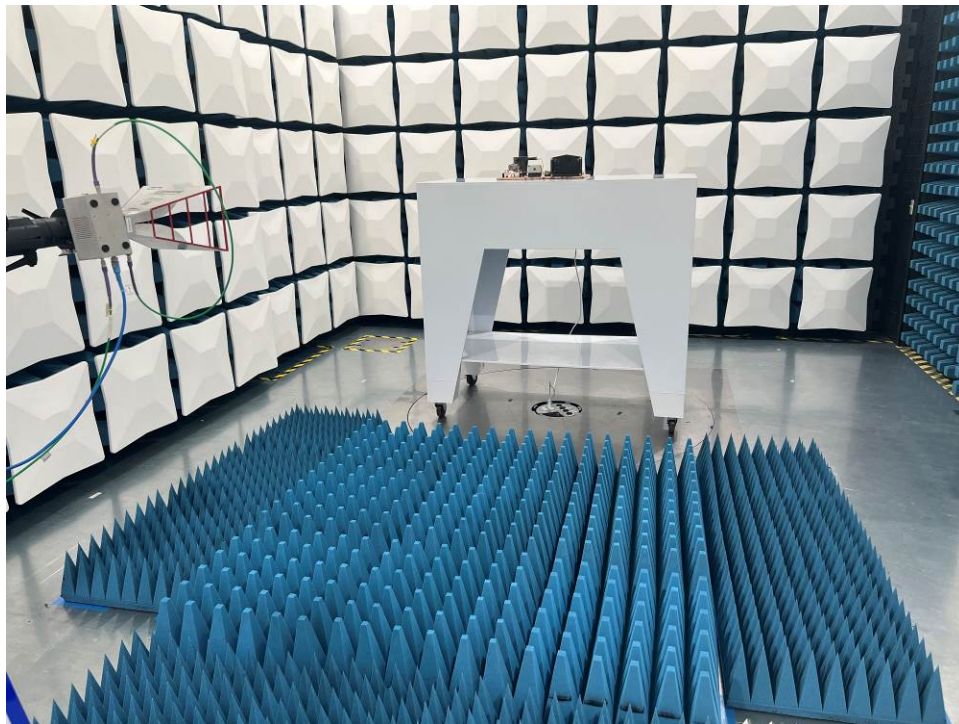
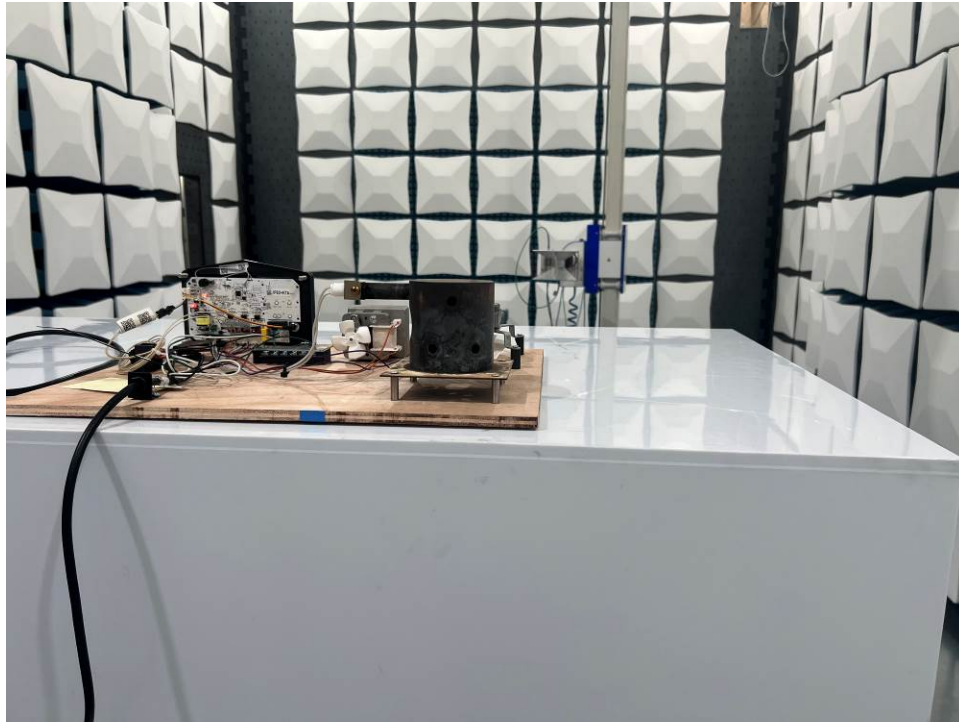
The following photographs show the testing configurations used.



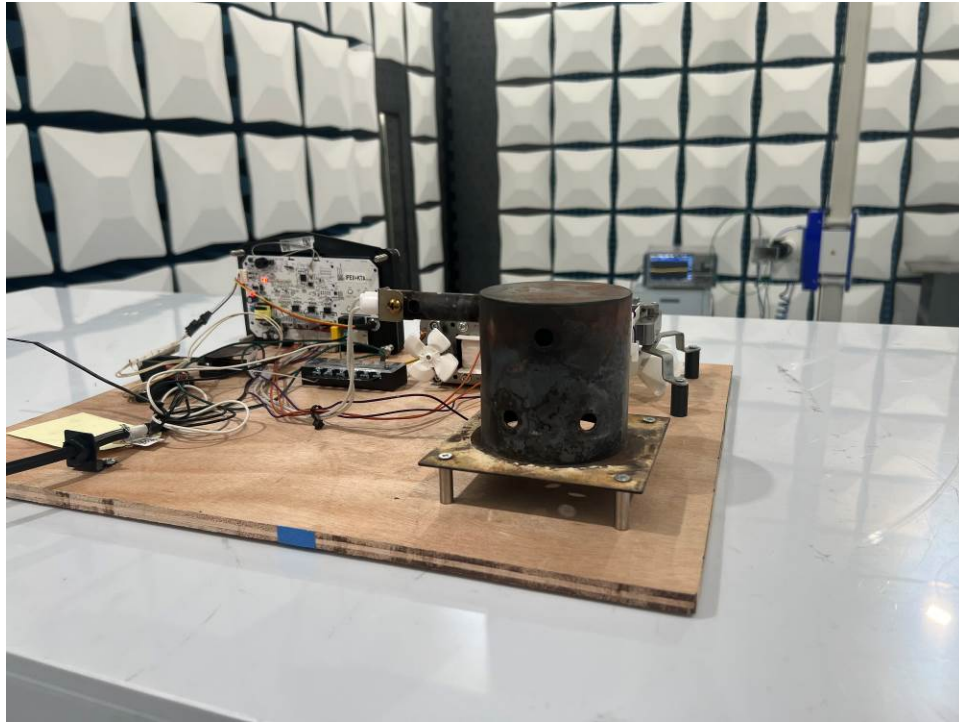
4.5.5 Test Setup Configuration (Continued)



4.5.5 Test Setup Configuration (Continued)



4.5.5 Test Setup Configuration (Continued)



4.6 AC Line Conducted Emission FCC: 15.207; RSS-GEN;

4.6.1 Requirement

Frequency Band MHz	Class B Limit dB(μV)		Class A Limit dB(μV)	
	Quasi-Peak	Average	Quasi-Peak	Average
0.15-0.50	66 to 56 *	56 to 46 *	79	66
0.50-5.00	56	46	73	60
5.00-30.00	60	50	73	60

*Note: *Decreases linearly with the logarithm of the frequency. At the transition frequency the lower limit applies.*

4.6.2 Procedure

Measurements are carried out using quasi-peak and average detector receivers in accordance with CISPR 16. An AMN is required to provide a defined impedance at high frequencies across the power feed at the point of measurement of terminal voltage and also to provide isolation of the circuit under test from the ambient noise on the power lines. An AMN as defined in CISPR 16 shall be used.

The EUT is located so that the distance between the boundary of the EUT and the closest surface of the AMN is 0.8m.

Where a flexible mains cord is provided by the manufacturer, this shall be 1m long or if in excess of 1m, the excess cable is folded back and forth as far as possible so as to form a bundle not exceeding 0.4m in length.

The EUT is arranged and connected with cables terminated in accordance with the product specification.

Conducted disturbance is measured between the phase lead and the reference ground, and between the neutral lead and the reference ground. Both measured values are reported.

The EUT, where intended for tabletop use, is placed on a table whose top is 0.8m above the ground plane. A vertical, metal reference plane is placed 0.4m from the EUT. The vertical metal reference-plane is at least 2m by 2m. The EUT shall be kept at least 0.8m from any other metal surface or other ground plane not being part of the EUT. The table is constructed of non-conductive materials. Its dimensions are 1m by 1.5m, but may be extended for larger EUT.

Floor standing EUT are placed on a horizontal metal ground plane and isolated from the ground plane by resting on an insulating material. The metal ground plane extends at least 0.5m beyond the boundaries of the EUT and has minimum dimensions of 2m by 2m.

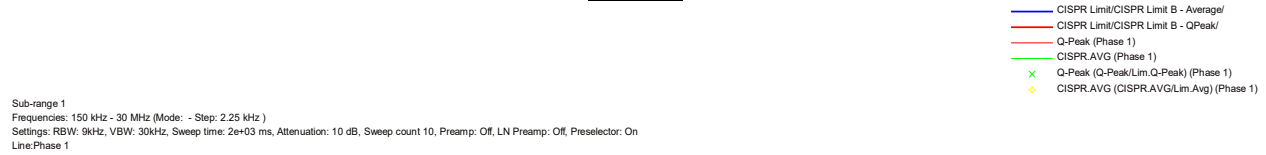
Equipment setup for conducted disturbance tests followed the guidelines of ANSI C63.10-2013.

Tested By / Supervised By	Test Date	Results
Arjun Mukherjea	July 6, 2025	Complies

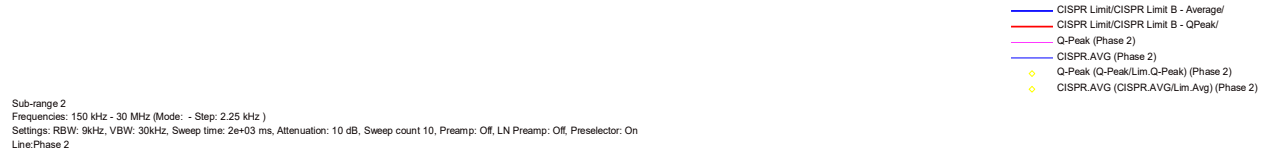
4.6.3 Test Result

15.207: Conducted Emissions 120VAC 60Hz, Tx @ 2402MHz

Phase 1



Phase 2



4.8.3 Test Results (Continued)

Frequency (MHz)	Q-Peak (dBμV)	Limit Q-Peak (dBμV)	Margin Q-Peak (dB)	Line	Correction (dB)
2.07825	33.83	56	-22.17	Phase 2	10.67
2.08275	33.6	56	-22.4	Phase 1	10.67
0.34125	34.69	59.17	-24.48	Phase 2	10.72
0.34125	34.51	59.17	-24.66	Phase 1	10.72
4.1145	30.03	56	-25.97	Phase 2	10.76
4.1235	30.01	56	-25.99	Phase 1	10.75
4.99425	29.66	56	-26.34	Phase 1	10.78
4.33275	29.57	56	-26.43	Phase 1	10.76
4.776	29.53	56	-26.47	Phase 1	10.78
4.32825	29.52	56	-26.48	Phase 2	10.76
4.794	29.34	56	-26.66	Phase 2	10.78
4.99875	29.21	56	-26.79	Phase 2	10.79
4.56225	29.01	56	-26.99	Phase 1	10.77
4.569	28.92	56	-27.08	Phase 2	10.77
5.01225	29.64	60	-30.36	Phase 1	10.78
5.00775	29.4	60	-30.6	Phase 2	10.79

Frequency (MHz)	CISPR AVG (dBμV)	Limit Avg (dBμV)	Margin Avg (dB)	Line	Correction (dB)
2.06025	25.08	46	-20.92	Phase 2	10.67
2.06025	24.84	46	-21.16	Phase 1	10.67
0.339	26.97	49.23	-22.25	Phase 2	10.72
0.339	26.86	49.23	-22.37	Phase 1	10.72
4.794	20.31	46	-25.69	Phase 1	10.78
4.1235	20.3	46	-25.7	Phase 2	10.76
0.564	19.17	46	-26.83	Phase 2	10.65
0.762	19.06	46	-26.94	Phase 2	10.63
0.56625	18.93	46	-27.07	Phase 1	10.65
0.7575	18.88	46	-27.12	Phase 1	10.63
0.98475	18.84	46	-27.16	Phase 2	10.63
2.958	18.82	46	-27.18	Phase 2	10.72
0.96675	18.7	46	-27.3	Phase 1	10.63
2.96475	18.62	46	-27.38	Phase 1	10.72
0.49875	16.69	46.02	-29.33	Phase 2	10.66

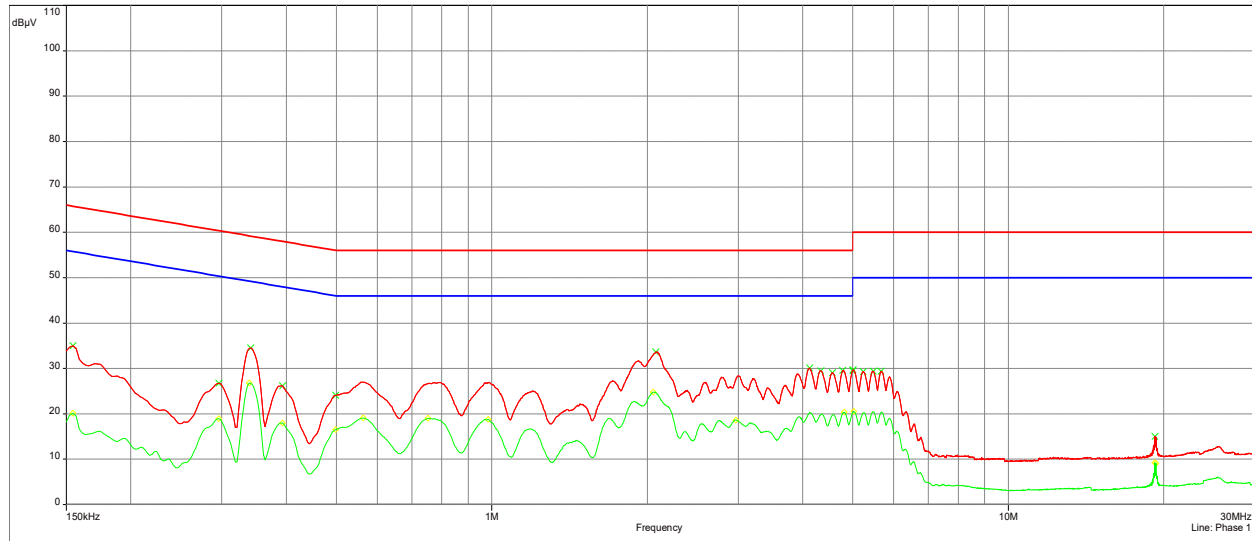
Results	Complies by 20.92 dB
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Tx @ 2440MHz

Phase 1

Sub-range 1
Frequencies: 150 kHz - 30 MHz (Mode: - Step: 2.25 kHz)
Settings: RBW: 9kHz, VBW: 30kHz, Sweep time: 2e+03 ms, Attenuation: 10 dB, Sweep count 10, Preamp: Off, LN Preamp: Off, Preselector: On
Line: Phase 1

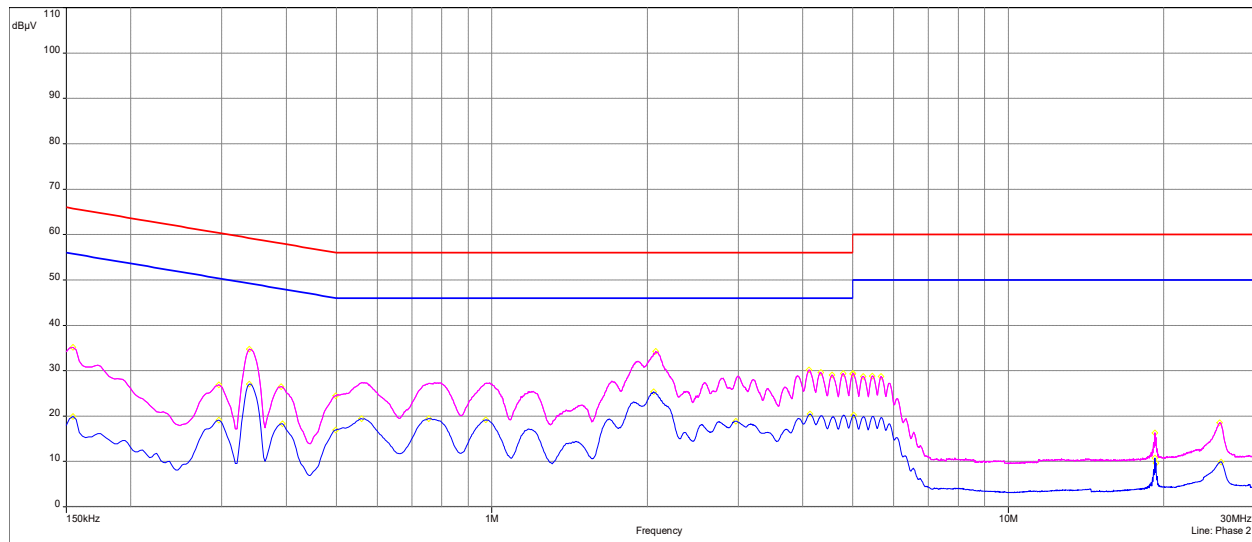
- CISPR Limit/CISPR Limit B - Average/
- CISPR Limit/CISPR Limit B - QPeak/
- Q-Peak (Phase 1)
- CISPR.AVG (Phase 1)
- × Q-Peak (Q-Peak/Lim.Q-Peak) (Phase 1)
- ◇ CISPR.AVG (CISPR.AVG/Lim.Avg) (Phase 1)



Phase 2

Sub-range 2
Frequencies: 150 kHz - 30 MHz (Mode: - Step: 2.25 kHz)
Settings: RBW: 9kHz, VBW: 30kHz, Sweep time: 2e+03 ms, Attenuation: 10 dB, Sweep count 10, Preamp: Off, LN Preamp: Off, Preselector: On
Line: Phase 2

- CISPR Limit/CISPR Limit B - Average/
- CISPR Limit/CISPR Limit B - QPeak/
- Q-Peak (Phase 2)
- CISPR.AVG (Phase 2)
- ◇ Q-Peak (Q-Peak/Lim.Q-Peak) (Phase 2)
- ◇ CISPR.AVG (CISPR.AVG/Lim.Avg) (Phase 2)



4.8.3 Test Results (Continued)

Frequency (MHz)	Q-Peak (dBμV)	Limit Q-Peak (dBμV)	Margin Q-Peak (dB)	Line	Correction (dB)
2.07825	34.23	56	-21.77	Phase 2	10.67
2.07825	33.61	56	-22.39	Phase 1	10.67
0.339	34.73	59.23	-24.5	Phase 2	10.72
0.34125	34.54	59.17	-24.63	Phase 1	10.72
4.1145	30.16	56	-25.84	Phase 2	10.76
4.1235	30.09	56	-25.91	Phase 1	10.75
4.335	29.62	56	-26.38	Phase 2	10.76
4.7805	29.54	56	-26.46	Phase 1	10.78
4.335	29.49	56	-26.51	Phase 1	10.76
4.9965	29.49	56	-26.51	Phase 1	10.78
4.794	29.39	56	-26.61	Phase 2	10.78
4.9965	29.28	56	-26.72	Phase 2	10.79
4.56675	29.06	56	-26.94	Phase 1	10.77
4.5555	29.03	56	-26.97	Phase 2	10.77
5.01	29.65	60	-30.35	Phase 1	10.78
5.00775	29.39	60	-30.61	Phase 2	10.79

Frequency (MHz)	CISPR AVG (dBμV)	Limit Avg (dBμV)	Margin Avg (dB)	Line	Correction (dB)
2.058	25.32	46	-20.68	Phase 2	10.67
2.05575	24.83	46	-21.17	Phase 1	10.67
0.339	27.05	49.23	-22.18	Phase 2	10.72
0.339	26.77	49.23	-22.46	Phase 1	10.72
4.13025	20.47	46	-25.53	Phase 2	10.76
4.812	20.37	46	-25.63	Phase 1	10.78
0.75525	19.46	46	-26.54	Phase 2	10.63
0.5595	19.4	46	-26.6	Phase 2	10.65
0.9735	19.17	46	-26.83	Phase 2	10.63
0.564	19.14	46	-26.86	Phase 1	10.65
0.753	18.99	46	-27.01	Phase 1	10.63
2.967	18.88	46	-27.12	Phase 2	10.72
0.98475	18.78	46	-27.22	Phase 1	10.63
2.967	18.66	46	-27.34	Phase 1	10.72
0.49875	16.9	46.02	-29.12	Phase 2	10.66

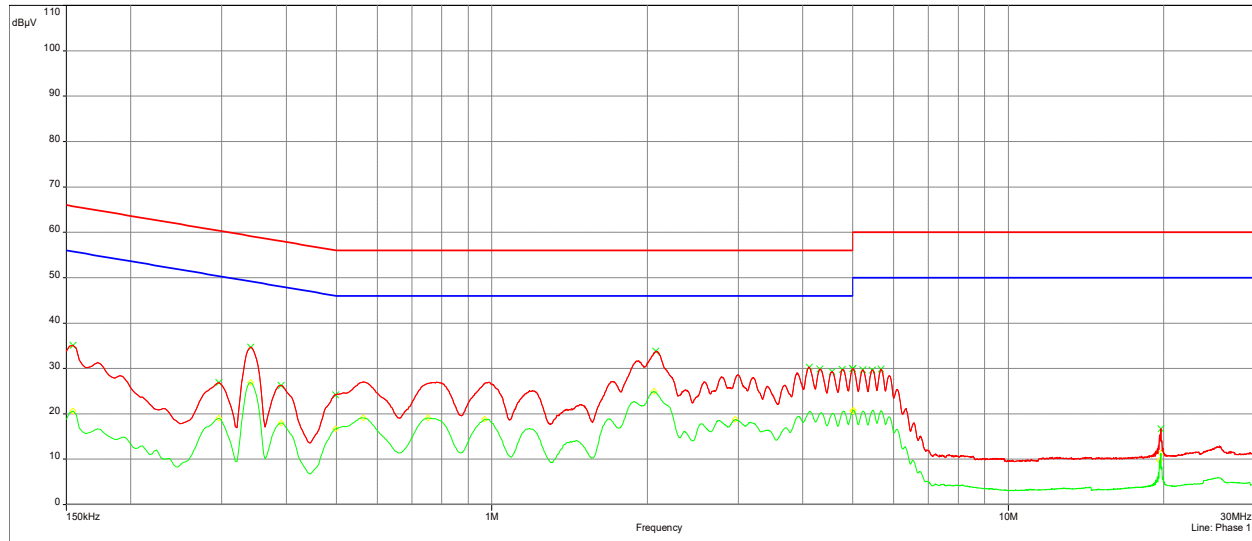
Results ☒ **Complies by 20.68 dB**

Tx @ 2480MHz

Phase 1

Sub-range 1
Frequencies: 150 kHz - 30 MHz (Mode: - Step: 2.25 kHz)
Settings: RBW: 9kHz, VBW: 30kHz, Sweep time: 2e+03 ms, Attenuation: 10 dB, Sweep count 10, Preamp: Off, LN Preamp: Off, Preselector: On
Line: Phase 1

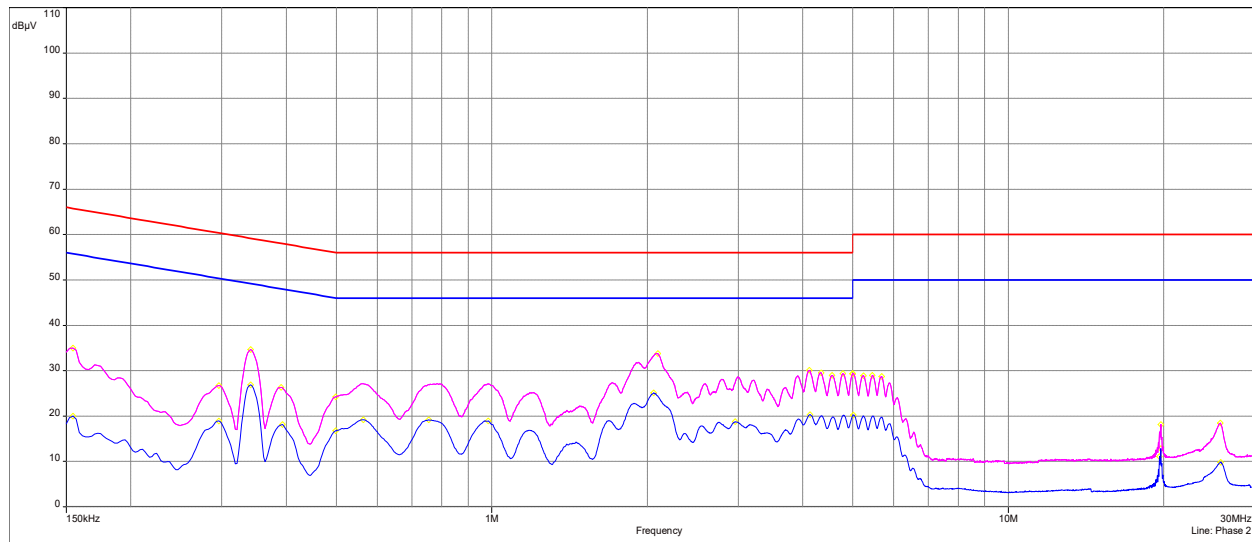
- CISPR Limit/CISPR Limit B - Average/
- CISPR Limit/CISPR Limit B - QPeak/
- Q-Peak (Phase 1)
- CISPR.AVG (Phase 1)
- × Q-Peak (Q-Peak/Lim.Q-Peak) (Phase 1)
- ◇ CISPR.AVG (CISPR.AVG/Lim.Avg) (Phase 1)



Phase 2

Sub-range 2
Frequencies: 150 kHz - 30 MHz (Mode: - Step: 2.25 kHz)
Settings: RBW: 9kHz, VBW: 30kHz, Sweep time: 2e+03 ms, Attenuation: 10 dB, Sweep count 10, Preamp: Off, LN Preamp: Off, Preselector: On
Line: Phase 2

- CISPR Limit/CISPR Limit B - Average/
- CISPR Limit/CISPR Limit B - QPeak/
- Q-Peak (Phase 2)
- CISPR.AVG (Phase 2)
- ◇ Q-Peak (Q-Peak/Lim.Q-Peak) (Phase 2)
- ◇ CISPR.AVG (CISPR.AVG/Lim.Avg) (Phase 2)



4.8.3 Test Results (Continued)

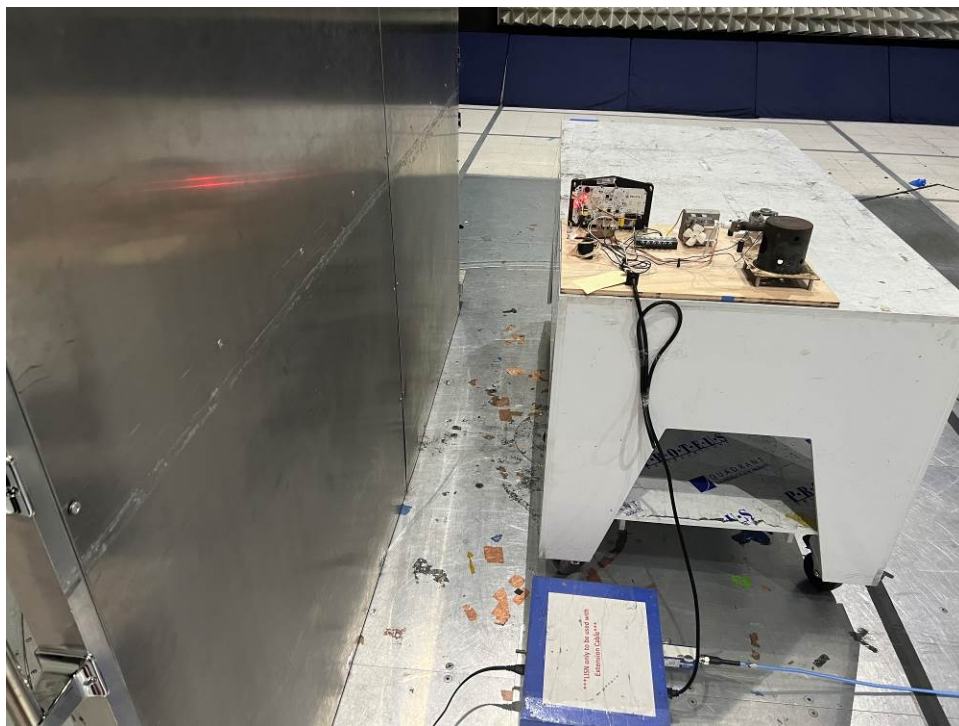
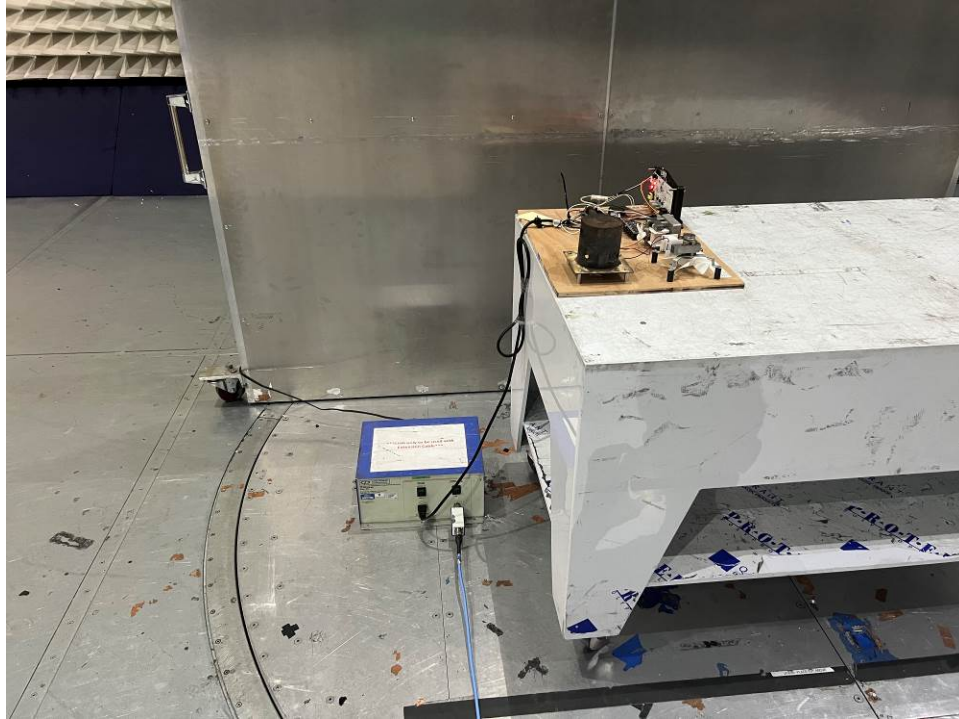
Frequency (MHz)	Q-Peak (dBμV)	Limit Q-Peak (dBμV)	Margin Q-Peak (dB)	Line	Correction (dB)
2.09625	33.81	56	-22.19	Phase 2	10.67
2.07825	33.78	56	-22.22	Phase 1	10.67
0.34125	34.7	59.17	-24.47	Phase 1	10.72
0.34125	34.64	59.17	-24.54	Phase 2	10.72
4.12125	30.26	56	-25.74	Phase 1	10.75
4.11675	30.1	56	-25.9	Phase 2	10.76
4.99875	29.9	56	-26.1	Phase 1	10.78
4.31925	29.83	56	-26.17	Phase 1	10.76
4.7715	29.79	56	-26.21	Phase 1	10.77
4.34175	29.53	56	-26.47	Phase 2	10.76
4.78725	29.37	56	-26.63	Phase 2	10.78
4.99875	29.32	56	-26.68	Phase 2	10.79
4.55775	29.26	56	-26.74	Phase 1	10.77
4.55775	28.96	56	-27.04	Phase 2	10.77
5.001	29.92	60	-30.08	Phase 1	10.78
5.6715	29.83	60	-30.17	Phase 1	10.8

Frequency (MHz)	CISPR AVG (dBμV)	Limit Avg (dBμV)	Margin Avg (dB)	Line	Correction (dB)
2.058	25.12	46	-20.88	Phase 2	10.67
2.06025	24.98	46	-21.02	Phase 1	10.67
0.34125	26.88	49.17	-22.3	Phase 1	10.72
0.34125	26.85	49.17	-22.32	Phase 2	10.72
4.99875	20.66	46	-25.34	Phase 1	10.78
4.1325	20.34	46	-25.66	Phase 2	10.76
0.564	19.2	46	-26.8	Phase 2	10.65
0.75525	19.16	46	-26.84	Phase 2	10.63
0.564	19.11	46	-26.89	Phase 1	10.65
0.753	19.07	46	-26.93	Phase 1	10.63
0.98475	18.92	46	-27.08	Phase 2	10.63
0.969	18.84	46	-27.16	Phase 1	10.63
2.96025	18.76	46	-27.24	Phase 2	10.72
2.958	18.75	46	-27.25	Phase 1	10.72
5.01225	20.77	50	-29.23	Phase 1	10.78

Results ☒ **Complies by 20.88 dB**

4.6.4 Test Setup Configuration

The following photographs show the testing configurations used.



5.0 List of Test Equipment

Measurement equipment used for compliance testing utilized the equipment on the following list:

Equipment	Manufacturer	Model/Type	Asset #	Cal Int	Cal Due
EMI Receiver	Rohde and Schwarz	ESW44	ITS 01659	12	03/06/2026
EMI Receiver	Rohde and Schwarz	ESU40	ITS 00961	12	04/08/2026
Horn Antenna (1-18GHz)	RF Spin	DRH18-E	ITS 02114	12	10/02/2025
1-18 Preamplifier	EMC Instruments	EMC118A45SE	ITS 02113	12	10/02/2025
18-40 Preamplifier	EMC Instruments	EMC184045SE	ITS 02112	12	10/02/2025
18-40GHz Horn Antenna	RF Spin	DRH0844	ITS 02115	12	10/03/2025
9kHz-30MHz Passive Loop Antenna	ETS Lindgren	6512	ITS 01573	12	12/02/2025
RF Motion 30MHz-2GHz Bi-Log Antenna	SunAR	JB1	ITS 01577	12	02/21/2026
9kHz-1GHz Pre-amplifier	Sonoma Instruments	310N	ITS 01713	12	02/17/2026
Notch Filter	MICRO-TRONICS	BRM50702	ITS 02062	12	02/18/2026
Line Impedance Stabilization Network	COM-POWER	LIN-115A	ITS 01283	12	12/16/2025
Power Sensor	Keysight Technologies	U2021XA	ITS 01578	12	05/16/2026

Software used for emission compliance testing utilized the following:

Name	Manufacturer	Version
BAT-EMC	Nexio	3.20.0.23
RS Commander	Rohde Schwarz	1.6.4

6.0 Document History

Revision/ Job Number	Writer Initials	Reviewers Initials	Date	Change
0 / G106218137	AM	AC	July 13, 2025	Original document
1 / G106218137	AM 	AC 	November 19, 2025	Updated RSS-247 Issue Number Updated FCC ID
2 / G106218137	AM 	AC 	February 6, 2026	• Added power sensor to test equipment list. • Updated antenna gain. • Added radiated data. for the 2nd harmonics of all three frequencies. • Removed information for extra antenna • Retested Bandwidth at Power Level 10

END OF REPORT