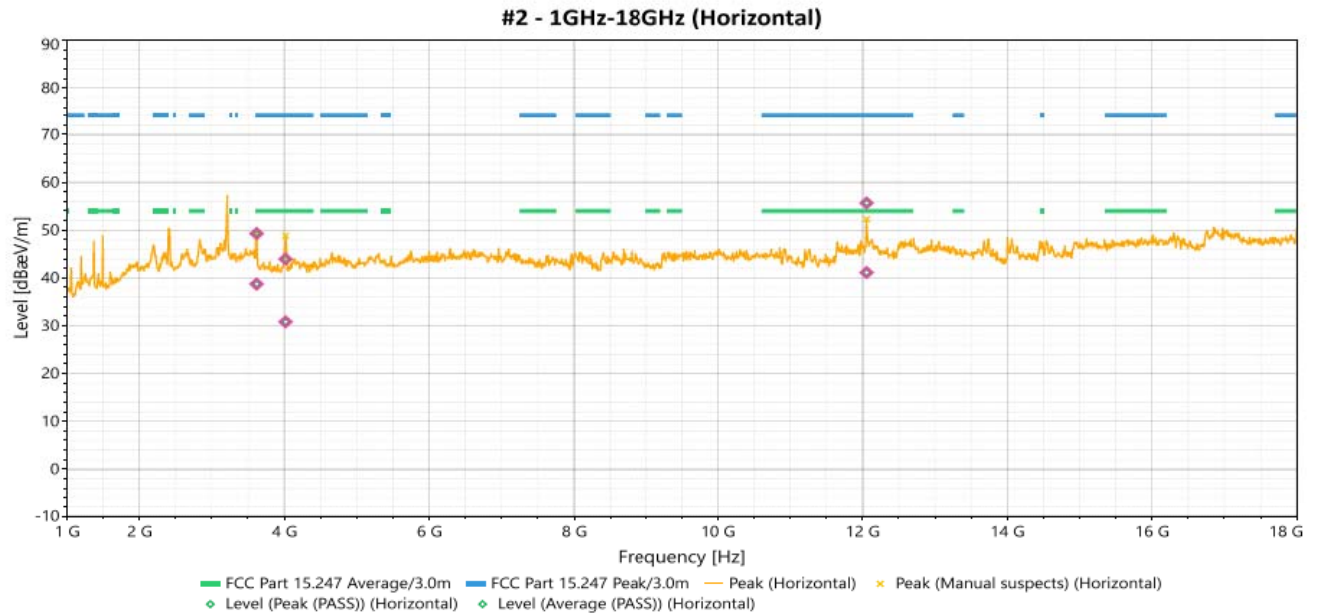
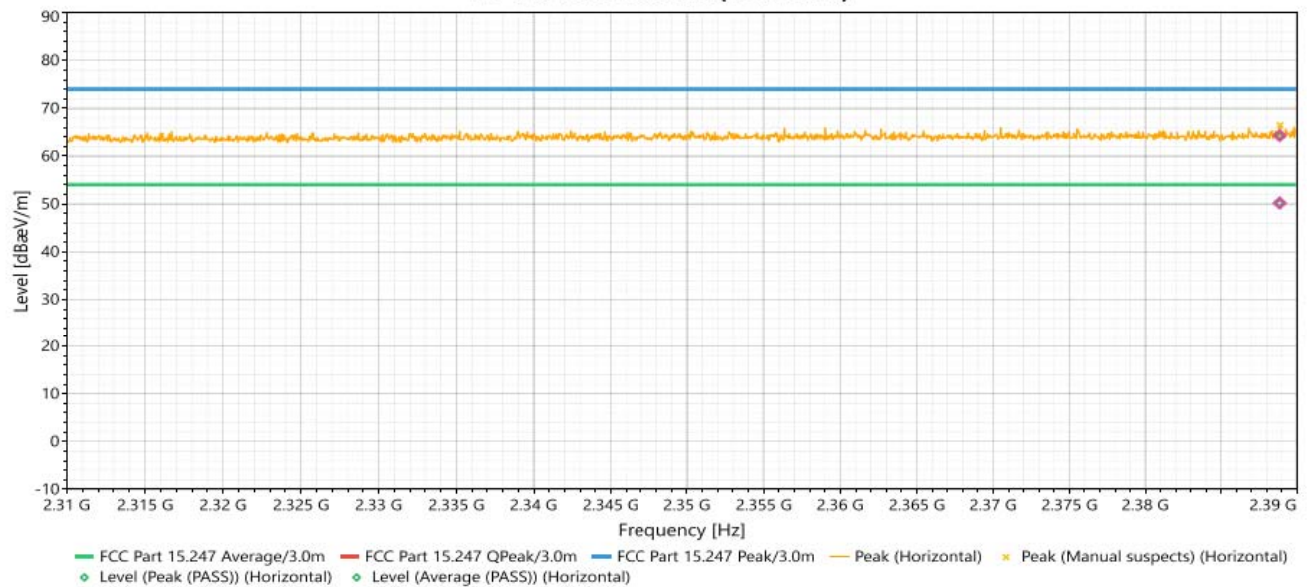


EUT Test Condition		Measurement Detail	
Input Power	120 Vac, 60Hz	Frequency Range	1GHz-26GHz
Environmental Conditions	25 deg. C, 70% RH	Tested By	Richard Dollente
Test Mode	TX MODE N HT20 2412 MHz		



#2 - 2.31GHz-2.39GHz (Horizontal)



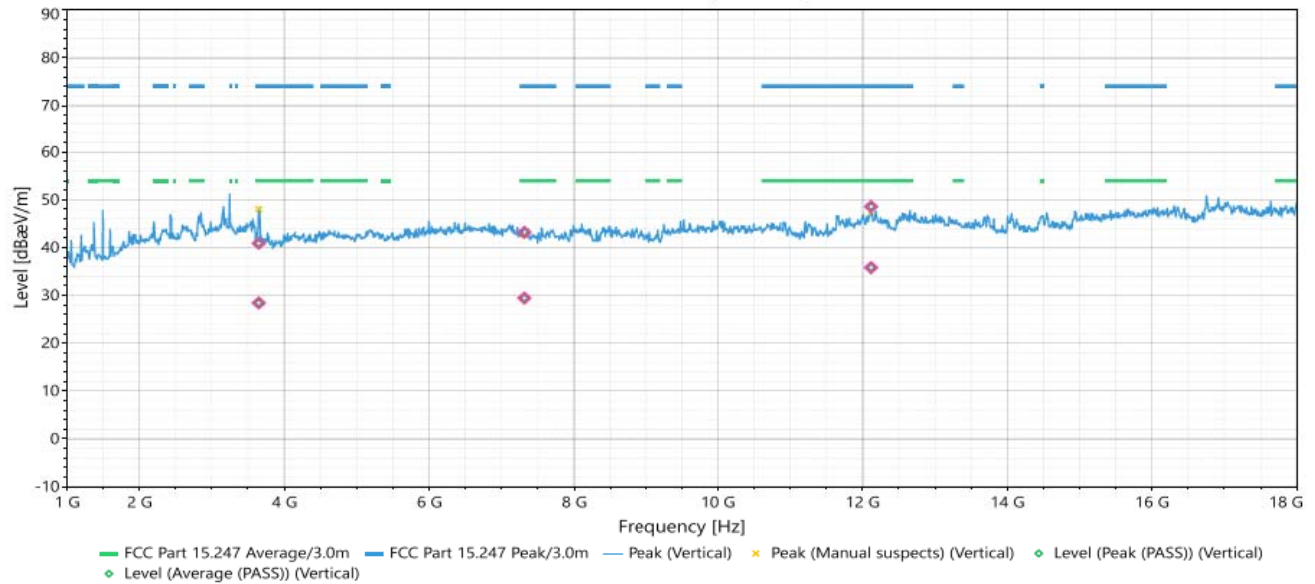
Antenna Polarity & Test Distance: Horizontal at 3m									
No.	Frequency (MHz)	Polarization	Level Peak[dB(uV/m)]	Limit Peak dB(uV/m)	Margin Peak [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	3619.6	Horizontal	49.291	74	-24.709	2.24	352	3.01	Peak (PASS)
2	3619.6	Horizontal	38.745	54	-15.255	2.24	352	3.01	Average (PASS)
3	4019.1	Horizontal	43.935	74	-30.065	1	53	3.29	Peak (PASS)
4	4019.1	Horizontal	30.815	54	-23.185	1	53	3.29	Average (PASS)
5	12056.7	Horizontal	55.683	74	-18.317	1.83	48	7.51	Peak (PASS)
6	12056.7	Horizontal	41.134	54	-12.866	1.83	48	7.51	Average (PASS)
7	2388.866	Horizontal	64.289	74	-9.711	2.89	355	38.84	Peak (PASS)
8	2388.866	Horizontal	50.191	54	-3.809	2.89	355	38.84	Average (PASS)

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin against the limit.

EUT Test Condition		Measurement Detail	
Input Power	120 Vac, 60Hz	Frequency Range	1GHz-26GHz
Environmental Conditions	25 deg. C, 70% RH	Tested By	Richard Dollente
Test Mode	TX MODE 11 N HT20 2437 MHz		

#1 - 1GHz-18GHz (Vertical)

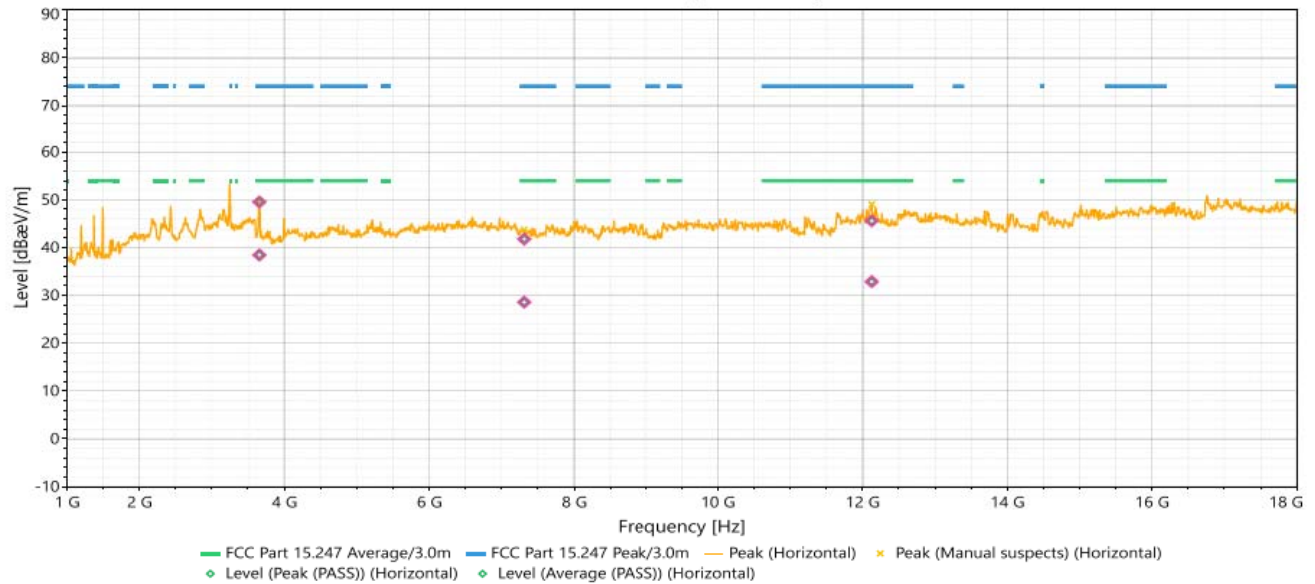


Antenna Polarity & Test Distance: Vertical at 3m									
No.	Frequency (MHz)	Polarization	Level Peak[dB(uV/m)]	Limit Peak dB(uV/m)	Margin Peak [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	3650.2	Vertical	40.876	74	-33.124	1	347	3.01	Peak (PASS)
2	3650.2	Vertical	28.422	54	-25.578	1	347	3.01	Average (PASS)
3	7315.4	Vertical	43.192	74	-30.808	1.02	8	5.87	Peak (PASS)
4	7315.4	Vertical	29.428	54	-24.572	1.02	8	5.87	Average (PASS)
5	12117.9	Vertical	48.564	74	-25.436	3.36	271	7.54	Peak (PASS)
6	12117.9	Vertical	35.809	54	-18.191	3.36	271	7.54	Average (PASS)

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin against the limit.

EUT Test Condition		Measurement Detail	
Input Power	120 Vac, 60Hz	Frequency Range	1GHz-26GHz
Environmental Conditions	25 deg. C, 70% RH	Tested By	Richard Dollente
Test Mode	TX MODE 11N HT20 2437 MHz		

#2 - 1GHz-18GHz (Horizontal)

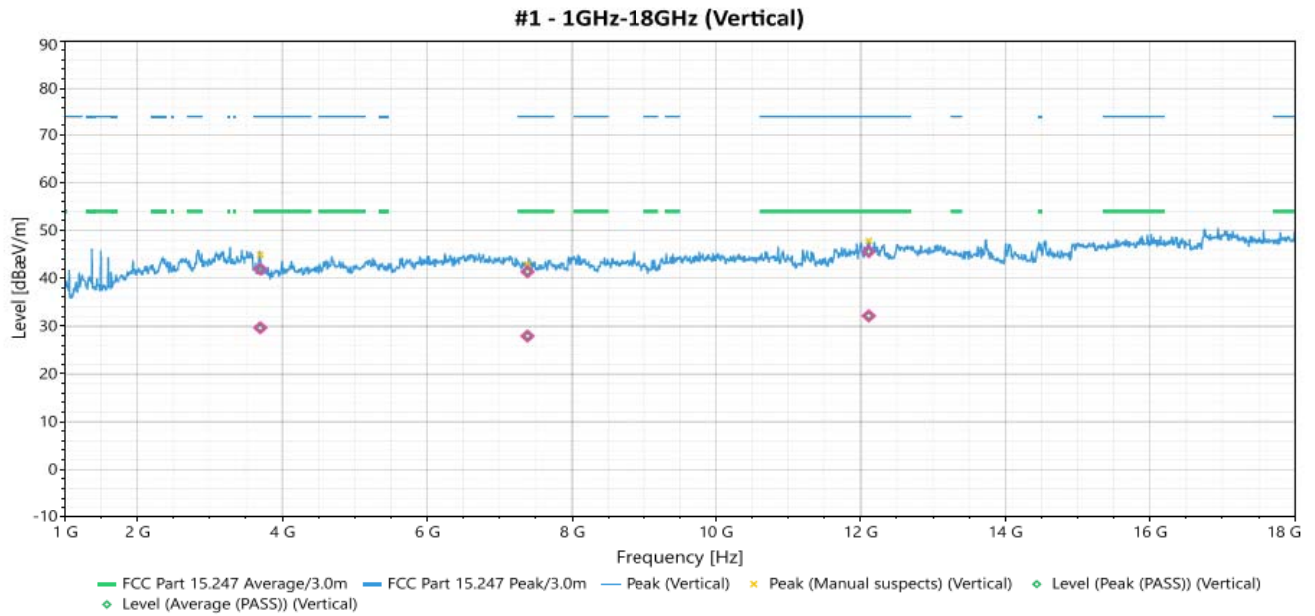


Antenna Polarity & Test Distance: Horizontal at 3m									
No.	Frequency (MHz)	Polarization	Level Peak [dB(uV/m)]	Limit Peak dB(uV/m)	Margin Peak [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	3658.7	Horizontal	49.529	74	-24.471	2.39	353	3.04	Peak (PASS)
2	3658.7	Horizontal	38.441	54	-15.559	2.39	353	3.04	Average (PASS)
3	7312	Horizontal	41.785	74	-32.215	1	301	5.89	Peak (PASS)
4	7312	Horizontal	28.581	54	-25.419	1	301	5.89	Average (PASS)
5	12126.4	Horizontal	45.594	74	-28.406	2.72	309	7.55	Peak (PASS)
6	12126.4	Horizontal	32.873	54	-21.127	2.72	309	7.55	Average (PASS)

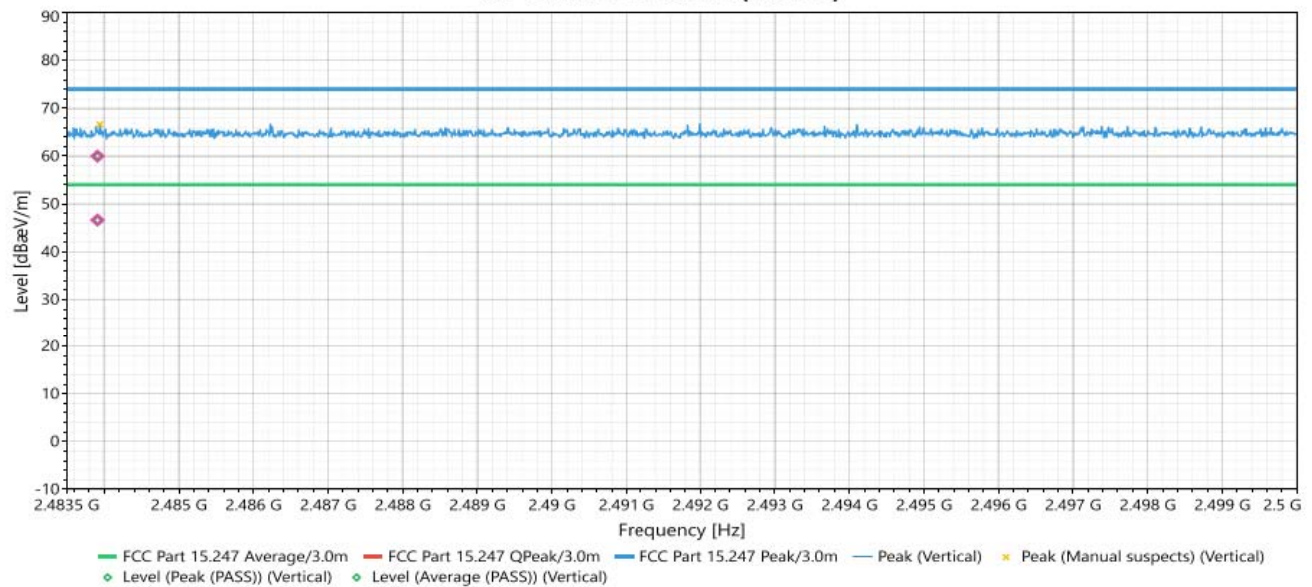
REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin against the limit.

EUT Test Condition		Measurement Detail	
Input Power	120 Vac, 60Hz	Frequency Range	1GHz-26GHz
Environmental Conditions	25 deg. C, 70% RH	Tested By	Richard Dollente
Test Mode	TX MODE 11N HT20 2462 MHz		



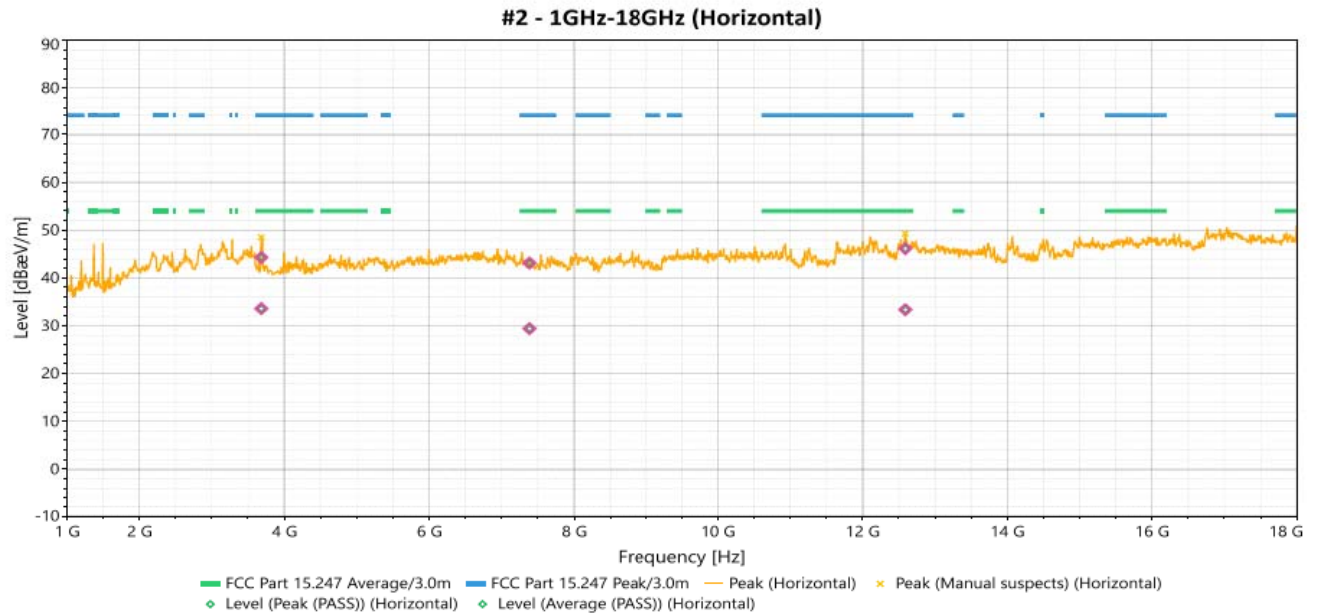
#1 - 2.4835GHz-2.5GHz (Vertical)

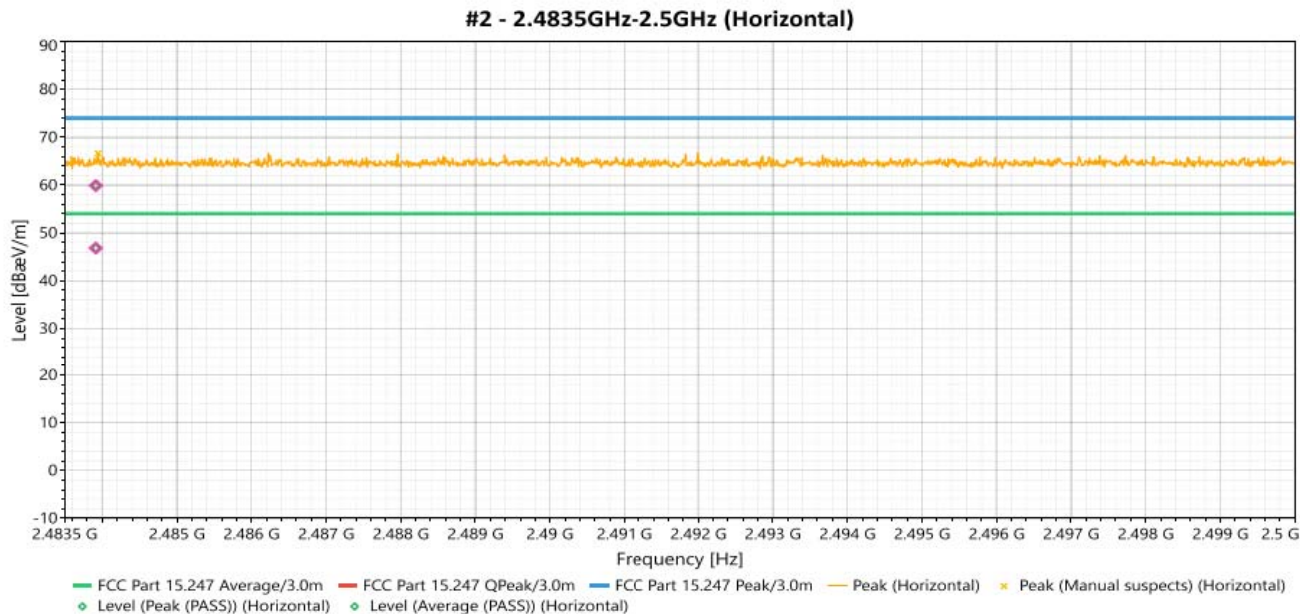


Antenna Polarity & Test Distance: Vertical at 3m									
No.	Frequency (MHz)	Polarization	Level Peak[dB(uV/m)]	Limit Peak dB(uV/m)	Margin Peak [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	3697.8	Vertical	41.928	74	-32.072	2.63	357	3.05	Peak (PASS)
2	3697.8	Vertical	29.645	54	-24.355	2.63	357	3.05	Average (PASS)
3	7386.8	Vertical	41.384	74	-32.616	1	342	5.92	Peak (PASS)
4	7386.8	Vertical	27.919	54	-26.081	1	342	5.92	Average (PASS)
5	12112.8	Vertical	45.581	74	-28.419	2.04	119	7.54	Peak (PASS)
6	12112.8	Vertical	32.143	54	-21.857	2.04	119	7.54	Average (PASS)
7	2483.912	Vertical	59.998	74	-14.002	2.52	34	39.15	Peak (PASS)
8	2483.912	Vertical	46.632	54	-7.368	2.52	34	39.15	Average (PASS)

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin against the limit.

EUT Test Condition		Measurement Detail	
Input Power	120 Vac, 60Hz	Frequency Range	1GHz-26GHz
Environmental Conditions	25 deg. C, 70% RH	Tested By	Richard Dollente
Test Mode	TX MODE 11N HT20 2462 MHz		



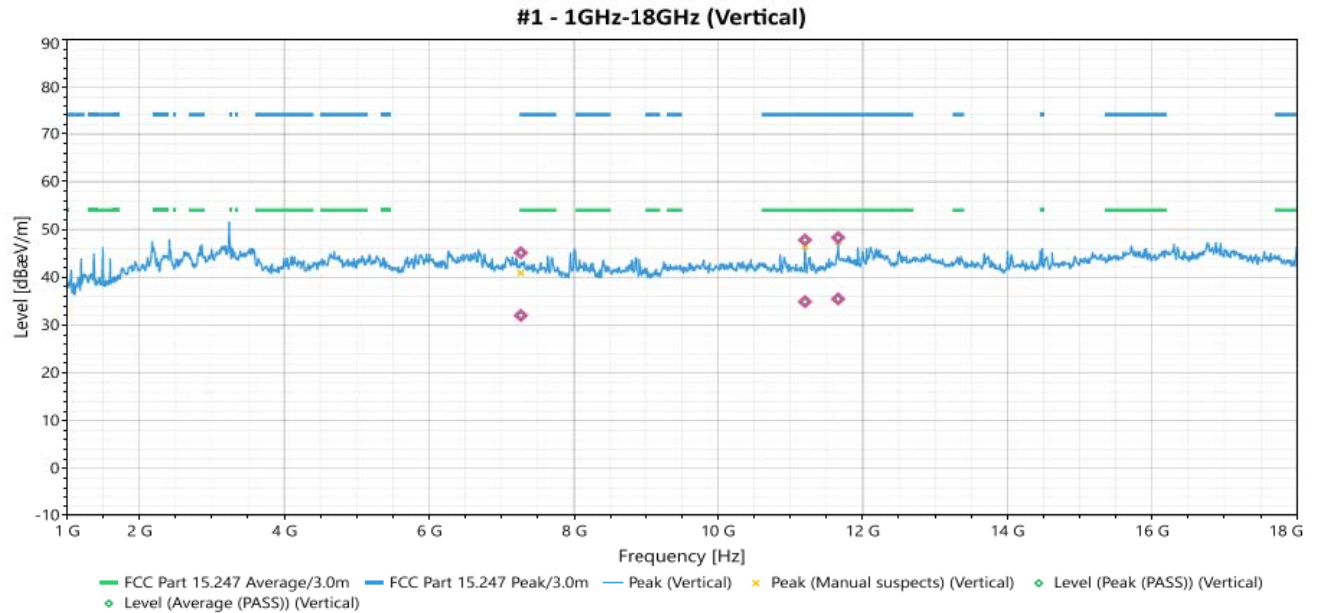


Antenna Polarity & Test Distance: Horizontal at 3m									
No.	Frequency (MHz)	Polarization	Level [dB(uV/m)]	Limit Peak dB(uV/m)	Margin Peak [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	3684.2	Horizontal	44.298	74	-29.702	2.39	354	3.07	Peak (PASS)
2	3684.2	Horizontal	33.592	54	-20.408	2.39	354	3.07	Average (PASS)
3	7386.8	Horizontal	43.122	74	-30.878	1.81	319	5.92	Peak (PASS)
4	7386.8	Horizontal	29.405	54	-24.595	1.81	319	5.92	Average (PASS)
5	12590.5	Horizontal	46.15	74	-27.85	2.18	237	7.52	Peak (PASS)
6	12590.5	Horizontal	33.369	54	-20.631	2.18	237	7.52	Average (PASS)
7	2483.916	Horizontal	59.895	74	-14.105	2.13	306	39.15	Peak (PASS)
8	2483.916	Horizontal	46.835	54	-7.165	2.13	306	39.15	Average (PASS)

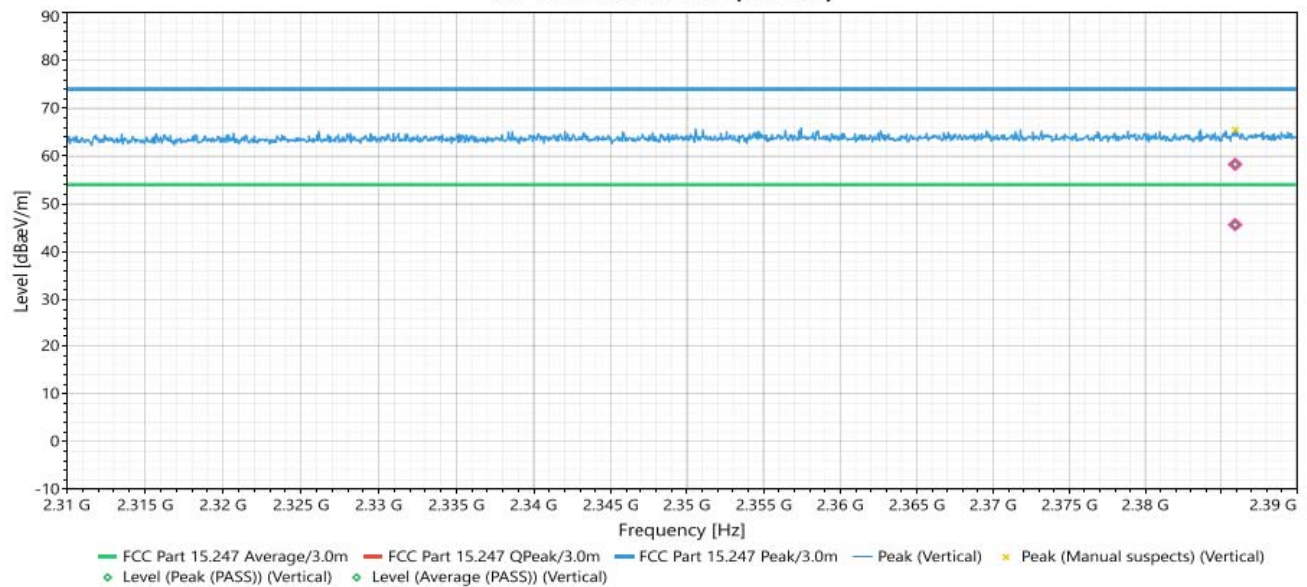
REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin against the limit.

EUT Test Condition		Measurement Detail	
Input Power	120 Vac, 60Hz	Frequency Range	1GHz-26GHz
Environmental Conditions	25 deg. C, 70% RH	Tested By	Richard Dollente
Test Mode	TX MODE N HT40 2422 MHz		



#1 - 2.31GHz-2.39GHz (Vertical)

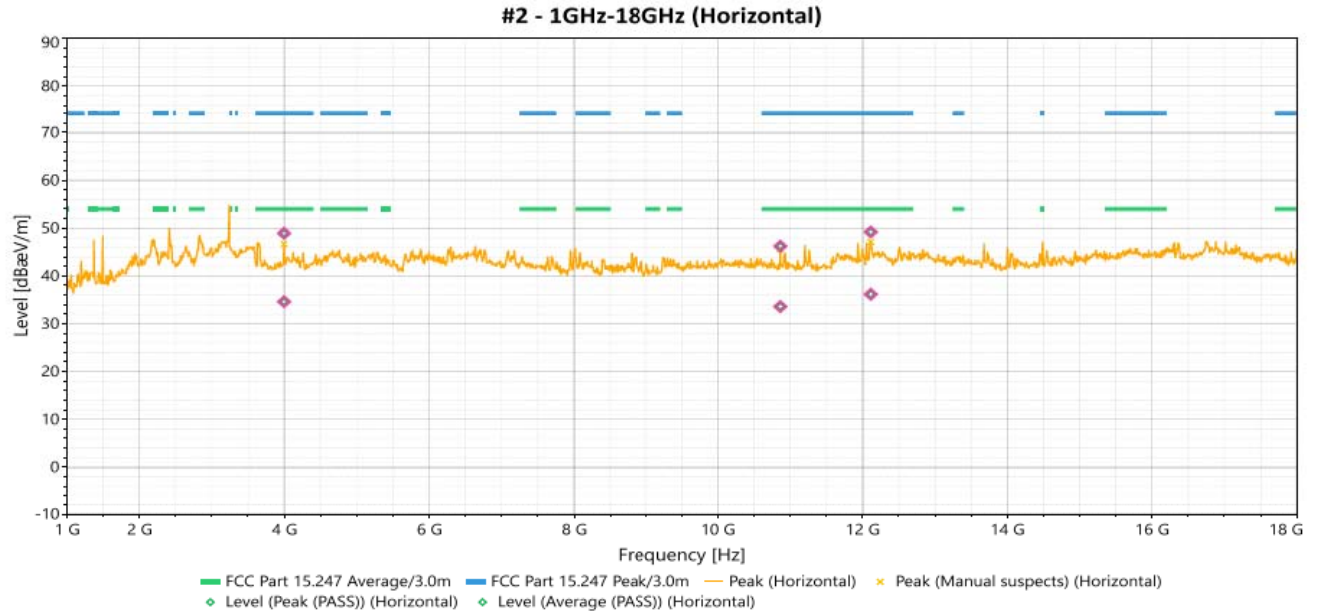


Antenna Polarity & Test Distance: Vertical at 3m									
No.	Frequency (MHz)	Polarization	Level Peak[dB(uV/m)]	Limit Peak dB(uV/m)	Margin Peak [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	7266.1	Vertical	45.134	74	-28.866	3.41	259	5.9	Peak (PASS)
2	7266.1	Vertical	32.034	54	-21.966	3.41	259	5.9	Average (PASS)
3	11203.3	Vertical	47.812	74	-26.188	3.39	128	6.51	Peak (PASS)
4	11203.3	Vertical	34.895	54	-19.105	3.39	128	6.51	Average (PASS)
5	11662.3	Vertical	48.302	74	-25.698	3.38	330	7.03	Peak (PASS)
6	11662.3	Vertical	35.474	54	-18.526	3.38	330	7.03	Average (PASS)
7	2385.922	Vertical	58.294	74	-15.706	2.52	240	38.73	Peak (PASS)
8	2385.922	Vertical	45.664	54	-8.336	2.52	240	38.73	Average (PASS)

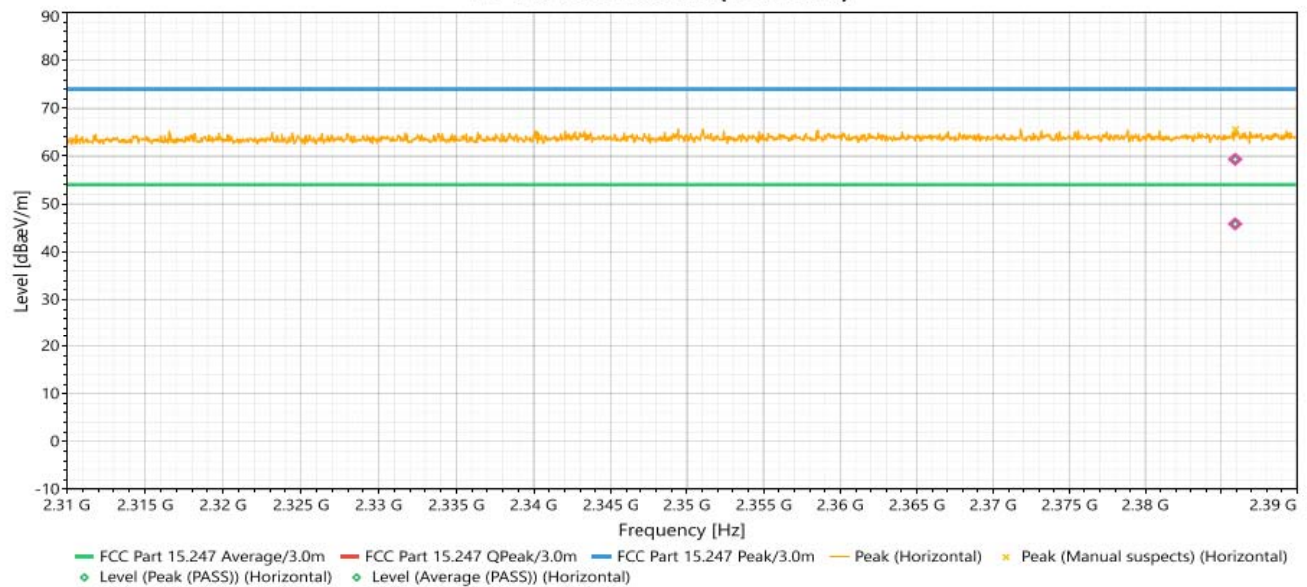
REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin against the limit.

EUT Test Condition		Measurement Detail	
Input Power	120 Vac, 60Hz	Frequency Range	1GHz-26GHz
Environmental Conditions	25 deg. C, 70% RH	Tested By	Richard Dollente
Test Mode	TX MODE N HT40 2422 MHz		



#2 - 2.31GHz-2.39GHz (Horizontal)



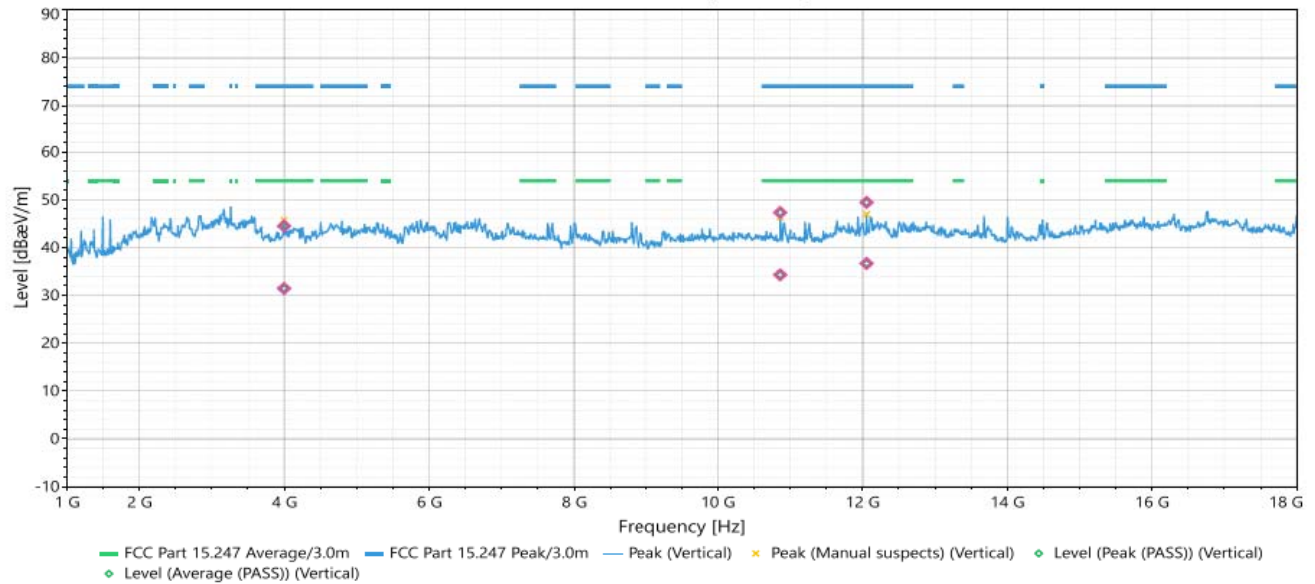
Antenna Polarity & Test Distance: Horizontal at 3m									
No.	Frequency (MHz)	Polarization	Level Peak[dB(uV/m)]	Limit Peak dB(uV/m)	Margin Peak [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	3998.7	Horizontal	48.92	74	-25.08	3.4	318	3.27	Peak (PASS)
2	3998.7	Horizontal	34.621	54	-19.379	3.4	318	3.27	Average (PASS)
3	10863.3	Horizontal	46.206	74	-27.794	3.06	106	6.59	Peak (PASS)
4	10863.3	Horizontal	33.614	54	-20.386	3.06	106	6.59	Average (PASS)
5	12112.8	Horizontal	49.191	74	-24.809	3.12	284	7.55	Peak (PASS)
6	12112.8	Horizontal	36.167	54	-17.833	3.12	284	7.55	Average (PASS)
7	2385.922	Horizontal	59.339	74	-14.661	2.1	261	38.84	Peak (PASS)
8	2385.922	Horizontal	45.825	54	-8.175	2.1	261	38.84	Average (PASS)

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin against the limit.

EUT Test Condition		Measurement Detail	
Input Power	120 Vac, 60Hz	Frequency Range	1GHz-26GHz
Environmental Conditions	25 deg. C, 70% RH	Tested By	Richard Dollente
Test Mode	TX MODE 11 N HT40 2437 MHz		

#1 - 1GHz-18GHz (Vertical)

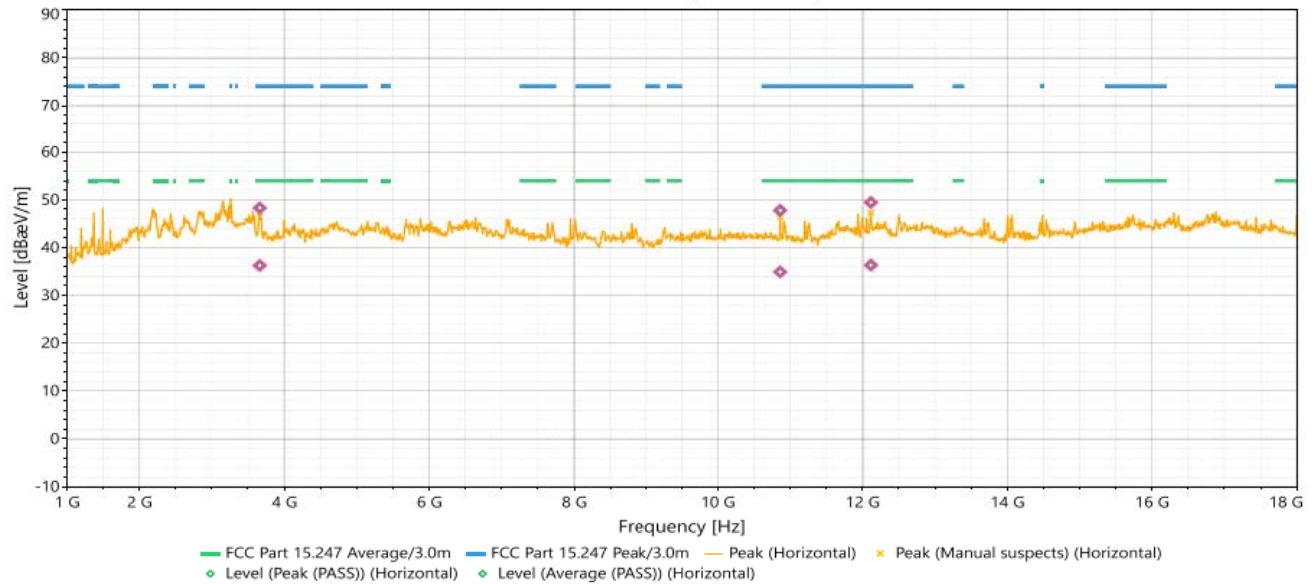


Antenna Polarity & Test Distance: Vertical at 3m									
No.	Frequency (MHz)	Polarization	Level Peak [dB(uV/m)]	Limit Peak dB(uV/m)	Margin Peak [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	3998.7	Vertical	44.515	74	-29.485	3.45	80	3.25	Peak (PASS)
2	3998.7	Vertical	31.451	54	-22.549	3.45	80	3.25	Average (PASS)
3	10861.6	Vertical	47.316	74	-26.684	3.34	163	6.56	Peak (PASS)
4	10861.6	Vertical	34.295	54	-19.705	3.34	163	6.56	Average (PASS)
5	12055	Vertical	49.441	74	-24.559	3.47	95	7.48	Peak (PASS)
6	12055	Vertical	36.671	54	-17.329	3.47	95	7.48	Average (PASS)

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin against the limit.

EUT Test Condition		Measurement Detail	
Input Power	120 Vac, 60Hz	Frequency Range	1GHz-26GHz
Environmental Conditions	25 deg. C, 70% RH	Tested By	Richard Dollente
Test Mode	TX MODE 11N HT20 2437 MHz		

#2 - 1GHz-18GHz (Horizontal)

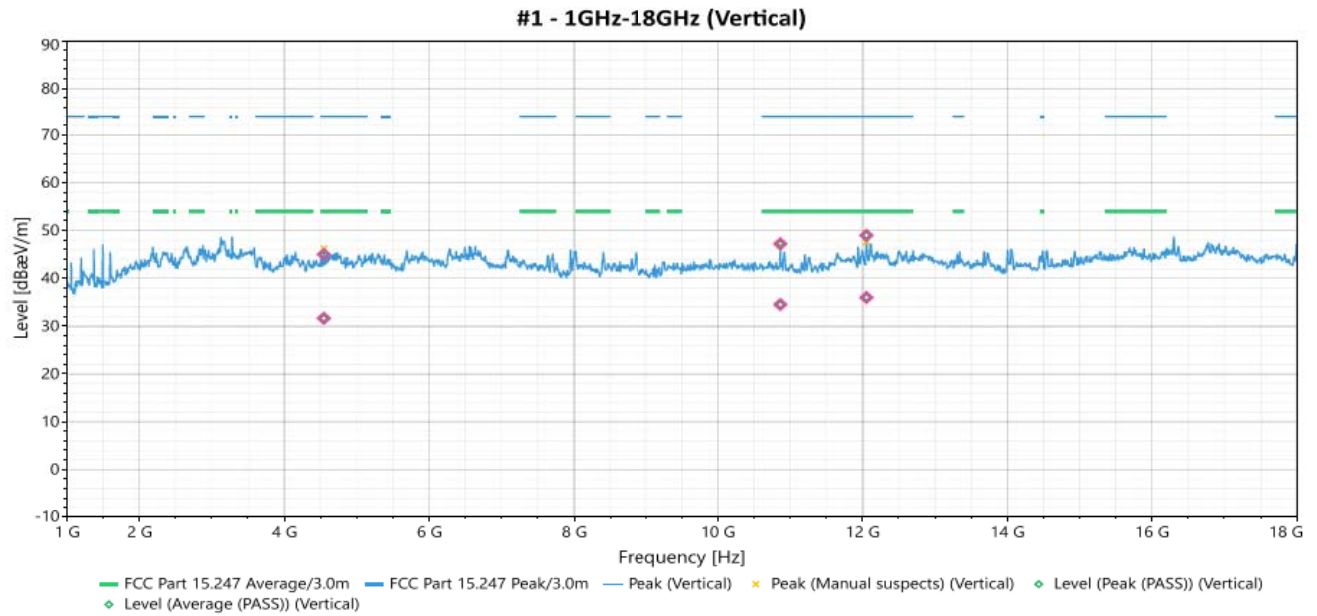


Antenna Polarity & Test Distance: Horizontal at 3m									
No.	Frequency (MHz)	Polarization	Level Peak [dB(uV/m)]	Limit Peak dB(uV/m)	Margin Peak [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	3663.8	Horizontal	48.294	74	-25.706	3.35	335	3.05	Peak (PASS)
2	3663.8	Horizontal	36.248	54	-17.752	3.35	335	3.05	Average (PASS)
3	10861.6	Horizontal	47.78	74	-26.22	3.45	295	6.59	Peak (PASS)
4	10861.6	Horizontal	34.912	54	-19.088	3.45	295	6.59	Average (PASS)
5	12116.2	Horizontal	49.432	74	-24.568	3.14	346	7.55	Peak (PASS)
6	12116.2	Horizontal	36.329	54	-17.671	3.14	346	7.55	Average (PASS)

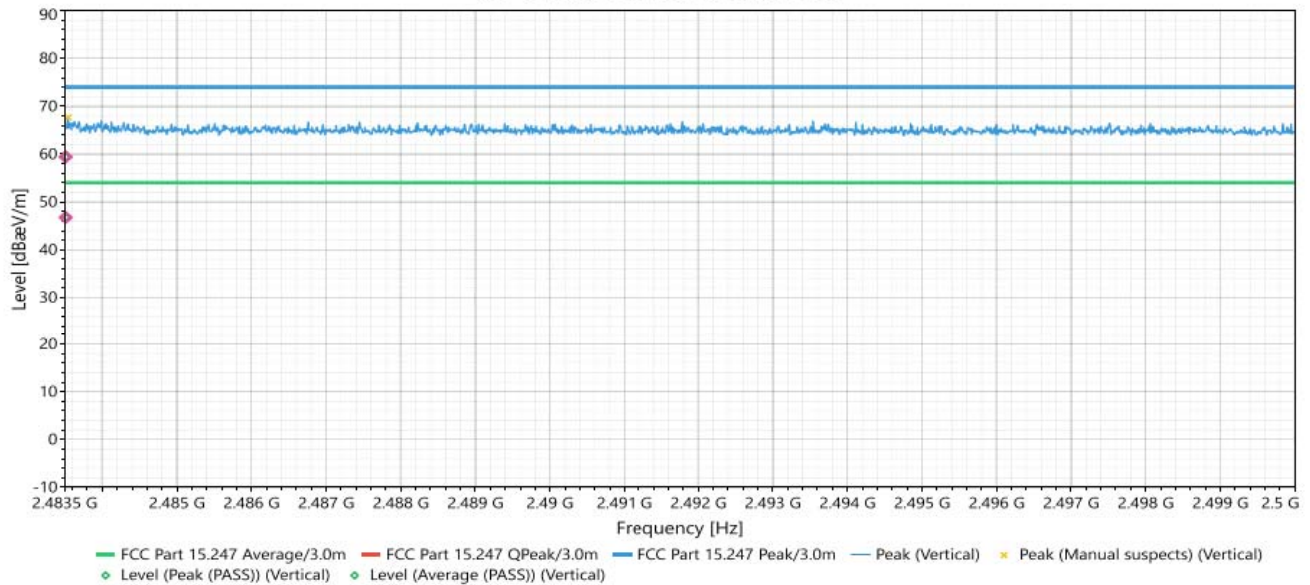
REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin against the limit.

EUT Test Condition		Measurement Detail	
Input Power	120 Vac, 60Hz	Frequency Range	1GHz-26GHz
Environmental Conditions	25 deg. C, 70% RH	Tested By	Richard Dollente
Test Mode	TX MODE 11N HT40 2452 MHz		



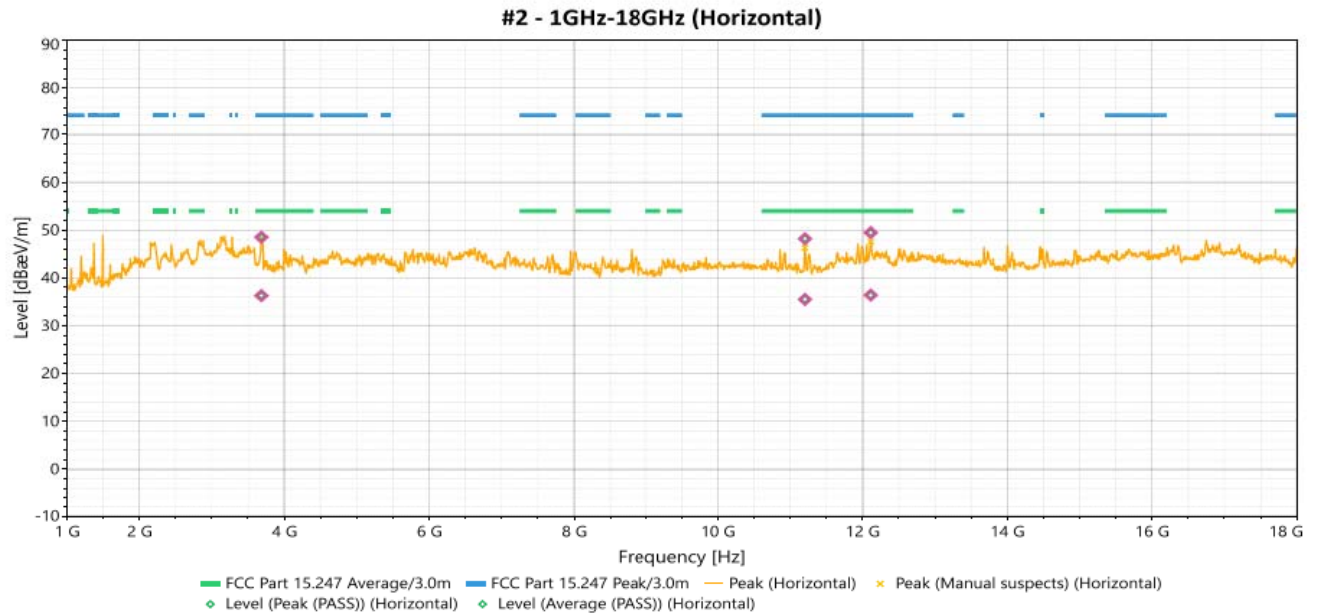
#1 - 2.4835GHz-2.5GHz (Vertical)



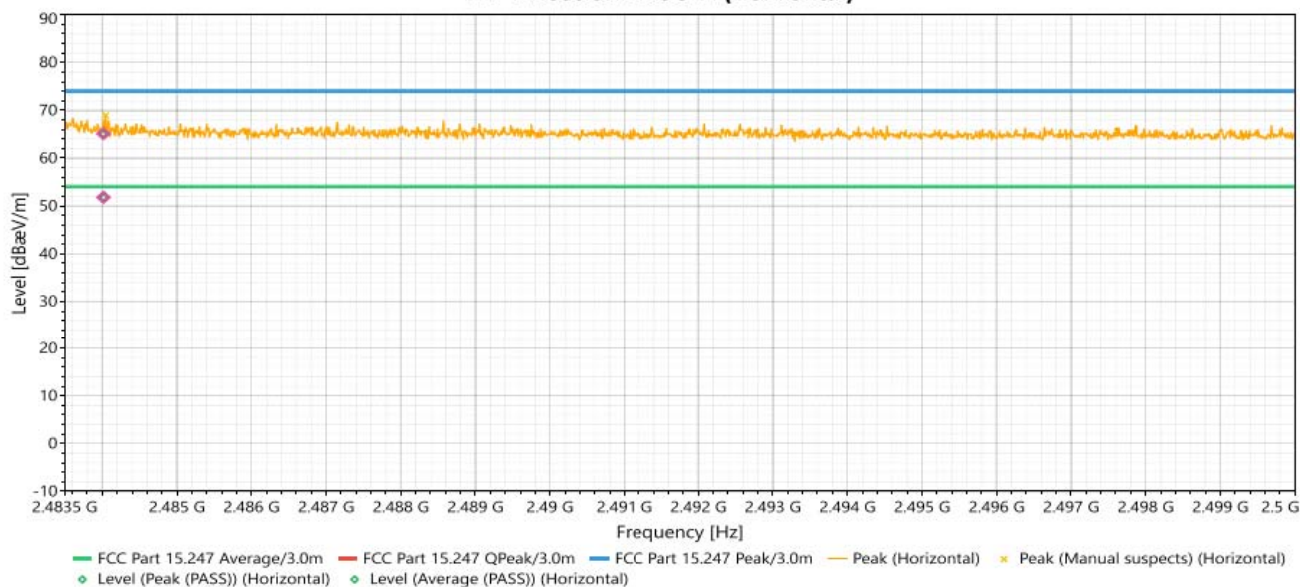
Antenna Polarity & Test Distance: Vertical at 3m									
No.	Frequency (MHz)	Polarization	Level Peak[dB(uV/m)]	Limit Peak dB(uV/m)	Margin Peak [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	4547.8	Vertical	44.991	74	-29.009	3.5	266	3.83	Peak (PASS)
2	4547.8	Vertical	31.63	54	-22.37	3.5	266	3.83	Average (PASS)
3	10863.3	Vertical	47.212	74	-26.788	3.38	230	6.56	Peak (PASS)
4	10863.3	Vertical	34.518	54	-19.482	3.38	230	6.56	Average (PASS)
5	12053.3	Vertical	48.979	74	-25.021	3.14	99	7.48	Peak (PASS)
6	12053.3	Vertical	35.976	54	-18.024	3.14	99	7.48	Average (PASS)
7	2483.513	Vertical	59.409	74	-14.591	1.64	308	39.14	Peak (PASS)
8	2483.513	Vertical	46.764	54	-7.236	1.64	308	39.14	Average (PASS)

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin against the limit.

EUT Test Condition		Measurement Detail	
Input Power	120 Vac, 60Hz	Frequency Range	1GHz-26GHz
Environmental Conditions	25 deg. C, 70% RH	Tested By	Richard Dollente
Test Mode	TX MODE 11N HT20 2462 MHz		



#2 - 2.4835GHz-2.5GHz (Horizontal)



Antenna Polarity & Test Distance: Horizontal at 3m									
No.	Frequency (MHz)	Polarization	Level [dB(uV/m)]	Limit Peak dB(uV/m)	Margin Peak [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	3685.9	Horizontal	48.526	74	-25.474	3.43	339	3.07	Peak (PASS)
2	3685.9	Horizontal	36.31	54	-17.69	3.43	339	3.07	Average (PASS)
3	11205	Horizontal	48.213	74	-25.787	3.44	19	6.49	Peak (PASS)
4	11205	Horizontal	35.521	54	-18.479	3.44	19	6.49	Average (PASS)
5	12112.8	Horizontal	49.483	74	-24.517	3.25	179	7.55	Peak (PASS)
6	12112.8	Horizontal	36.42	54	-17.58	3.25	179	7.55	Average (PASS)
7	2484.018	Horizontal	65.107	74	-8.893	2.53	1	39.15	Peak (PASS)
8	2484.018	Horizontal	51.806	54	-2.194	2.53	1	39.15	Average (PASS)

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin against the limit.

Conducted Emission Measurement**Limits of Conducted Emission Measurement :**

The following standards specified below are covered in the scope of this section of the test report:

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

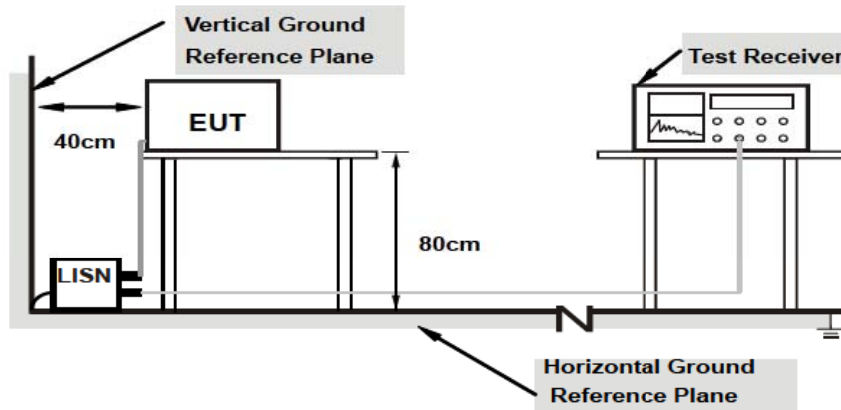
Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Conducted Emissions - Test Procedure

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency ranges from 150 kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

Conducted Emissions - Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo)

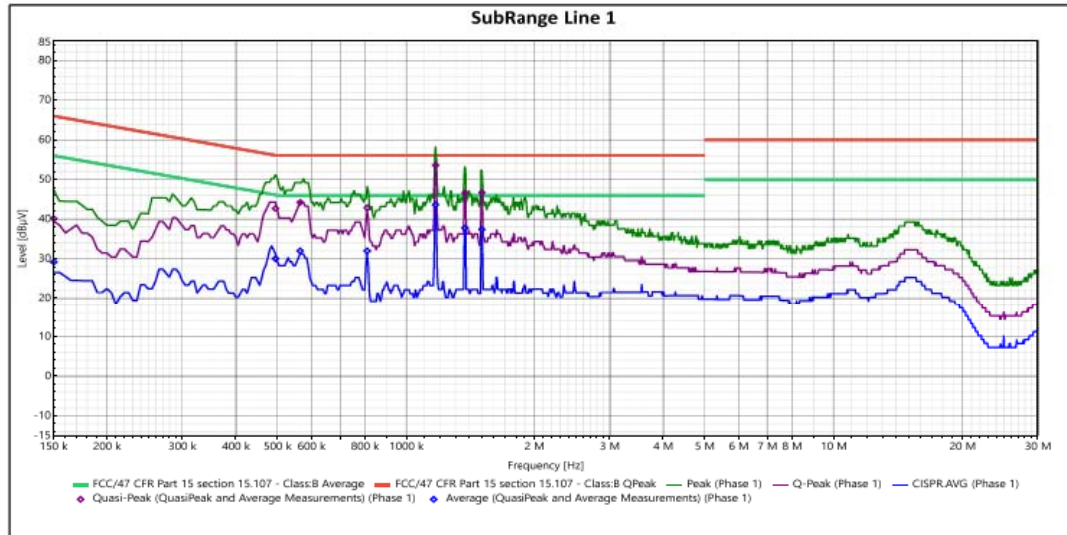
Test Results

Frequency Range	0.15-30 MHz	Phase	Line
Input Power	120 Vac	Environmental Conditions	24 °C, 48% RH
Tested by	Richard Dollente	Test Date	04/22/2023
Test Mode	Mode 1		

Line	Frequency	QP Amplitude (dBμV)	QP Limit (dBμV)	QP Margin (dB)	Pass/Fail	Average Amplitude (dBμV)	Average Limit (dBμV)	Average Margin (dB)	Pass/Fail
Phase 1	150 kHz	40.12	66	-25.88	Pass	29.15	56	-26.85	Pass
Phase 1	495 kHz	42.683	56.083	-13.4	Pass	29.993	46.083	-16.09	Pass
Phase 1	565 kHz	44.187	56	-11.813	Pass	31.987	46	-14.013	Pass
Phase 1	810 kHz	42.857	56	-13.143	Pass	31.987	46	-14.013	Pass
Phase 1	1.17 MHz	53.603	56	-2.397	Pass	43.623	46	-2.377	Pass
Phase 1	1.37 MHz	46.581	56	-9.419	Pass	37.721	46	-8.279	Pass

Remarks:

1. The emission levels of other frequencies were very low against the limit.
2. Margin value = Emission level – Limit value
3. Emission Level = Correction Factor + Reading Value

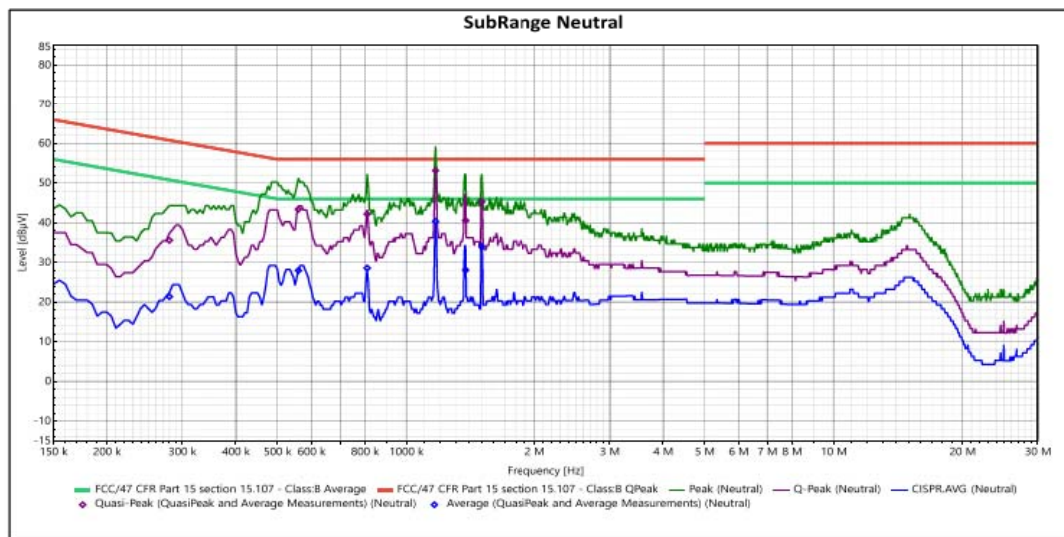


Frequency Range	0.15-30 MHz	Phase	Neutral
Input Power	230 Vac	Environmental Conditions	24 °C, 48% RH
Tested by	Richard Dollente	Test Date	04/20/2023
Test Mode	Mode 1		

Line	Frequency	QP Amplitude (dBμV)	QP Limit (dBμV)	QP Margin (dB)	Pass/Fail	Average Amplitude (dBμV)	Average Limit (dBμV)	Average Margin (dB)	Pass/Fail
Neutral	280 kHz	35.566	60.816	-25.25	Pass	21.356	50.816	-29.46	Pass
Neutral	560 kHz	43.378	56	-12.622	Pass	27.958	46	-18.042	Pass
Neutral	810 kHz	42.197	56	-13.803	Pass	28.577	46	-17.423	Pass
Neutral	1.17 MHz	53.163	56	-2.837	Pass	40.363	46	-5.637	Pass
Neutral	1.375 MHz	40.602	56	-15.398	Pass	28.092	46	-17.908	Pass
Neutral	1.5 MHz	45.279	56	-10.721	Pass	33.979	46	-12.021	Pass

Remarks:

1. The emission levels of other frequencies were very low against the limit.
2. Margin value = Emission level – Limit value
3. Emission Level = Correction Factor + Reading Value



Test Equipment

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2017.

Note: Functionally tested equipment is verified using calibrated instrumentation at the time of testing.

MET Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
1S2488	Screen Room	Universal	Custom Made	Not Required	Not Required
1S4818	Digital Barometer	Control Company	6530 68000-49	05/04/2022	05/04/2024
4U1668	True RMS Multimeter with Remote Display	Fluke	233	04/03/2023	04/03/2025
1S3898	Voltage Regulator	Volteq	TDGC2-5kVA	See Note	See Note
1S3809	EMI Receiver	Narda Safety Test Solutions	PMM 9010F	10/12/2022	10/12/2023
1S4781	Transient Limiter	Fischer Custom Communications, Inc.	450B-2.4-BNC	See Note	See Note
1U0337	LISN	Com-Power	LI-215A	10/12/2022	10/12/2023
1S2659	Impedance Stabilization Network (ISN)	Fischer Custom Communications, Inc.	F-071115-1057-1-09	04/06/2023	04/06/2024
1S54005	Micro-Ohmmeter	NDB Technologies, Inc.	DRM-1A	11/21/2022	11/21/2023
1S4852	Radio Communicator Analyzer	Anritsu	MT8821C	04/10/2023	04/10/2024

Table 1. Conducted Emissions, Test Equipment

Test Engineer: Richard Dollente

Test Date(s): 04/22/2023

IV. Pictures of test Arrangements

Please see setup photo file

END OF REPORT