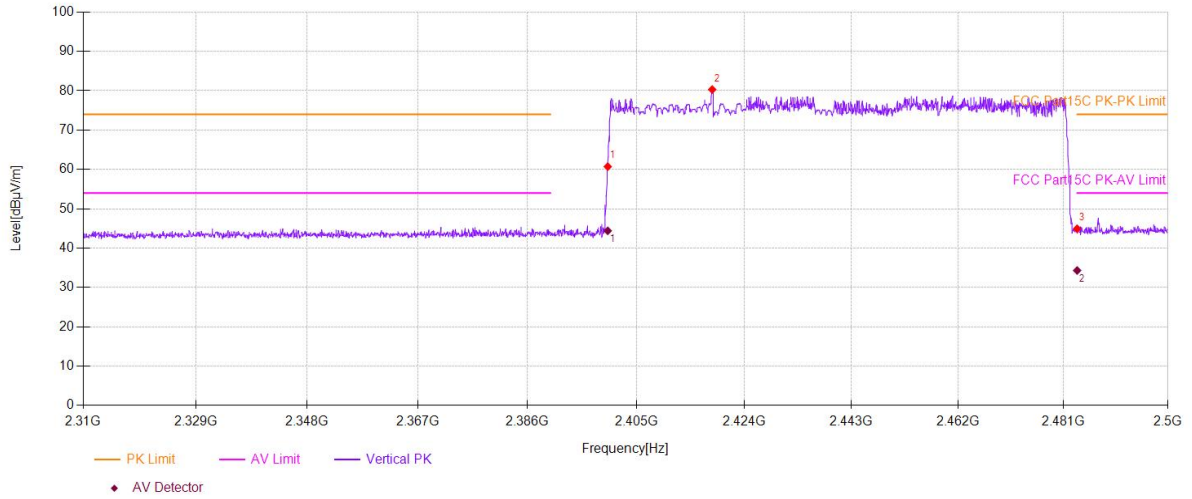
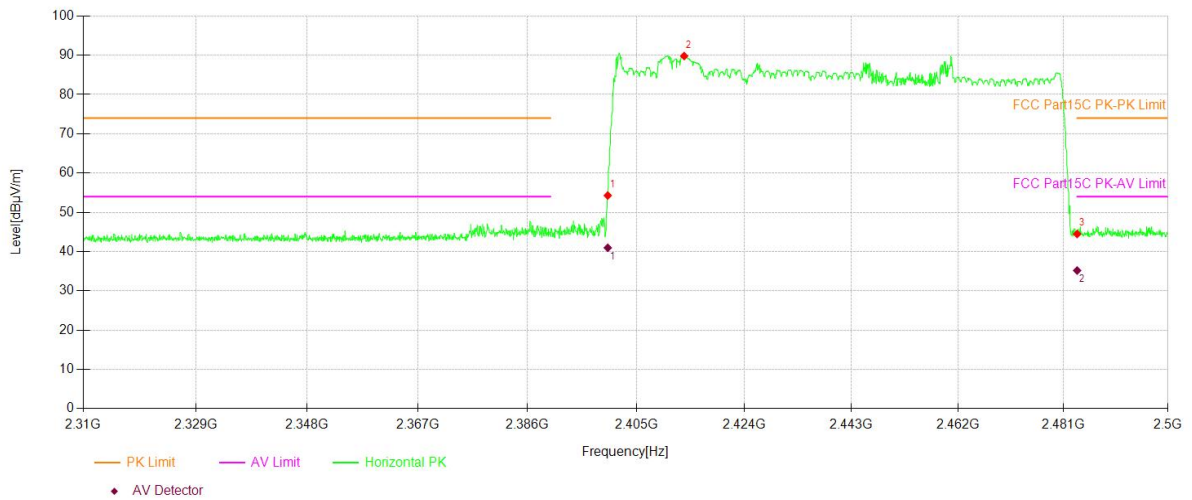


Test Model **Spurious Emission in Restricted Band 2310-2390MHz and 2400-2483.5MHz Hopping** **GFSK** **V**



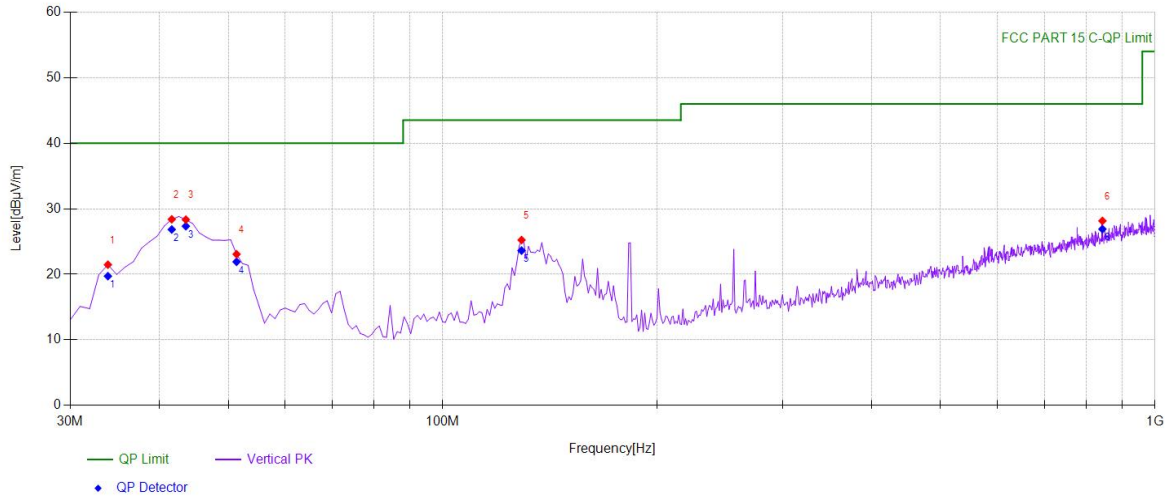
Test Model **Spurious Emission in Restricted Band 2310-2390MHz and 2400-2483.5MHz Hopping** **GFSK** **H**



■ Spurious Emission below 1GHz(30MHz to 1GHz)

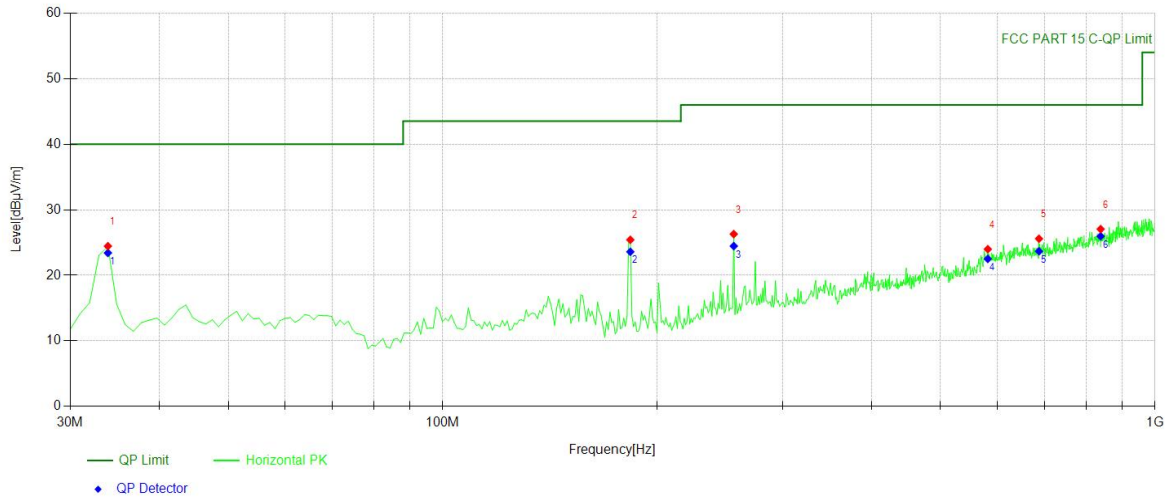
All the antenna(Antenna 1) and modes(GFSK, $\pi/4$ -DQPSK, 8DPSK) mode have been tested, and the worst(Antenna 1,GFSK) result recorded was report as below:

Mode:	BT 2402
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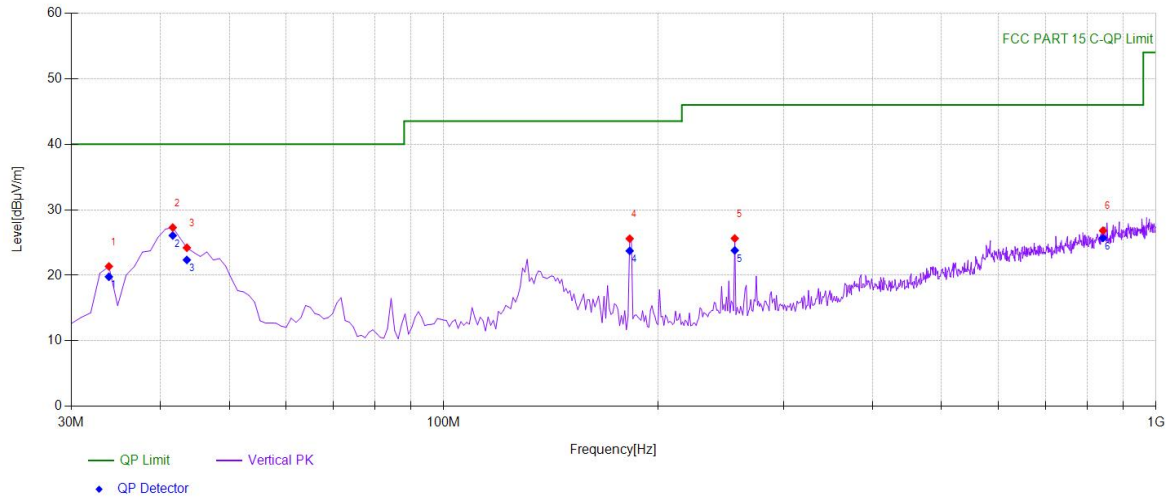
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	33.8839	39.76	-18.29	21.47	PK	40.00	18.53	Vertical
2	41.6517	46.19	-17.80	28.39	PK	40.00	11.61	Vertical
3	43.5936	46.00	-17.66	28.34	PK	40.00	11.66	Vertical
4	51.3614	40.46	-17.39	23.07	PK	40.00	16.93	Vertical
5	129.039	44.13	-18.90	25.23	PK	43.50	18.27	Vertical
6	843.6737	31.99	-3.84	28.15	PK	46.00	17.85	Vertical

Mode: BT 2402



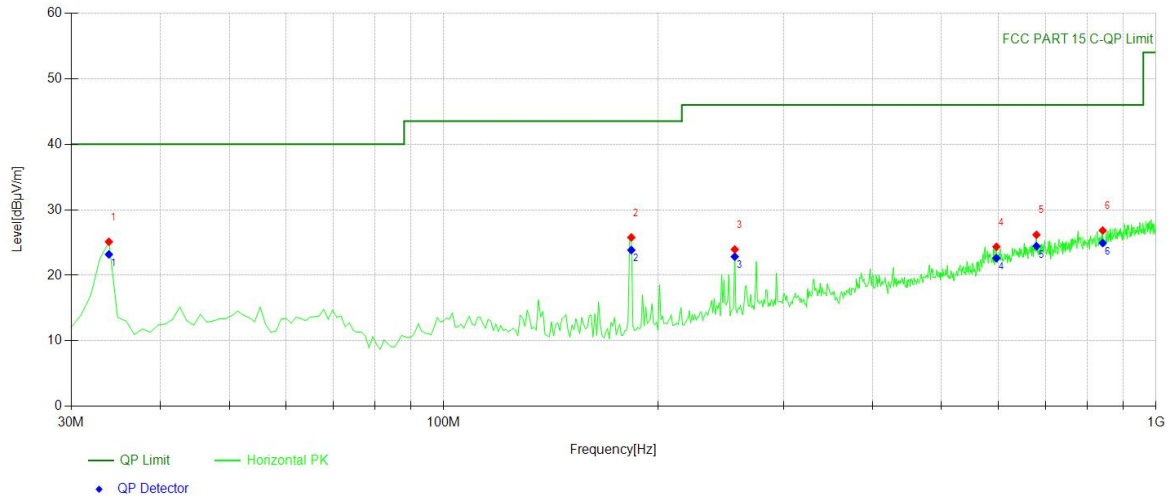
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity
1	33.8839	42.74	-18.29	24.45	PK	40.00	15.55	Horizontal
2	183.4134	43.59	-18.17	25.42	PK	43.50	18.08	Horizontal
3	256.2362	41.46	-15.17	26.29	PK	46.00	19.71	Horizontal
4	582.4825	31.13	-7.14	23.99	PK	46.00	22.01	Horizontal
5	687.3473	31.64	-6.05	25.59	PK	46.00	20.41	Horizontal
6	838.8188	30.94	-3.89	27.05	PK	46.00	18.95	Horizontal

Mode: BT 2441



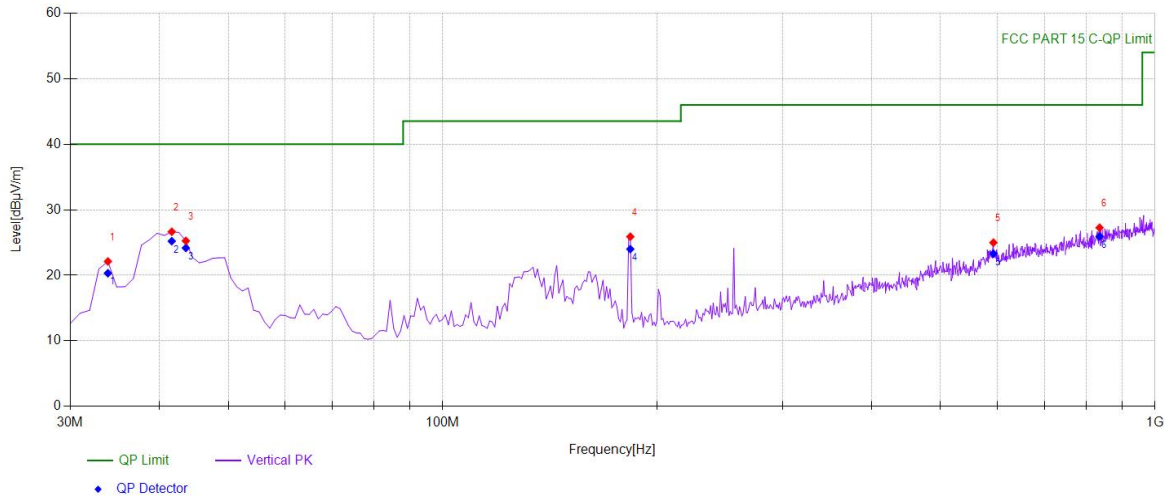
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity
1	33.8839	39.65	-18.29	21.36	PK	40.00	18.64	Vertical
2	41.6517	45.09	-17.80	27.29	PK	40.00	12.71	Vertical
3	43.5936	41.87	-17.66	24.21	PK	40.00	15.79	Vertical
4	182.4424	43.83	-18.24	25.59	PK	43.50	17.91	Vertical
5	256.2362	40.80	-15.17	25.63	PK	46.00	20.37	Vertical
6	842.7027	30.66	-3.84	26.82	PK	46.00	19.18	Vertical

Mode: BT 2441



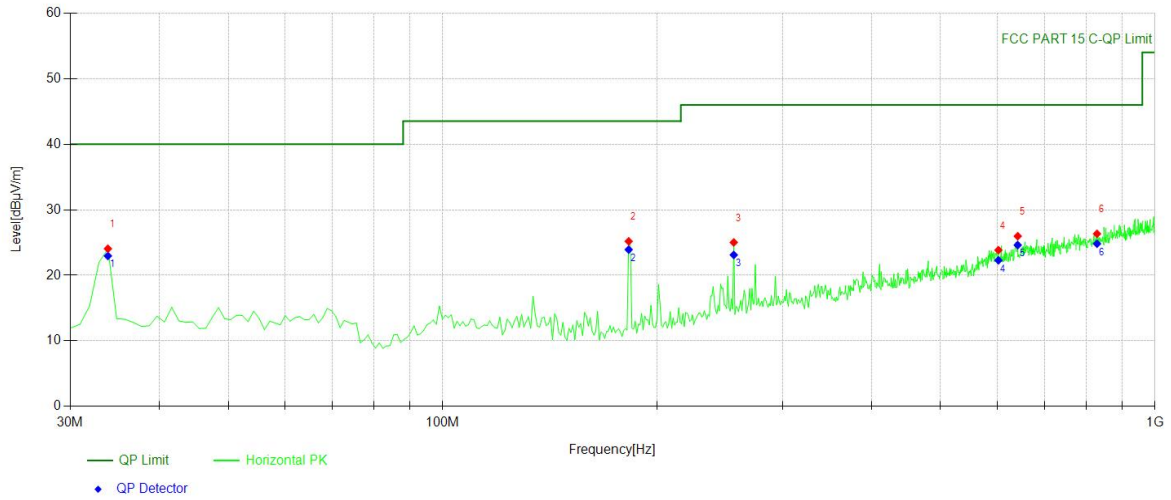
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity
1	33.8839	43.41	-18.29	25.12	PK	40.00	14.88	Horizontal
2	183.4134	43.95	-18.17	25.78	PK	43.50	17.72	Horizontal
3	256.2362	39.12	-15.17	23.95	PK	46.00	22.05	Horizontal
4	597.047	31.50	-7.14	24.36	PK	46.00	21.64	Horizontal
5	679.5796	32.28	-6.10	26.18	PK	46.00	19.82	Horizontal
6	841.7317	30.68	-3.85	26.83	PK	46.00	19.17	Horizontal

Mode: BT 2480



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity
1	33.8839	40.41	-18.29	22.12	PK	40.00	17.88	Vertical
2	41.6517	44.45	-17.80	26.65	PK	40.00	13.35	Vertical
3	43.5936	42.91	-17.66	25.25	PK	40.00	14.75	Vertical
4	183.4134	44.06	-18.17	25.89	PK	43.50	17.61	Vertical
5	593.1632	32.13	-7.14	24.99	PK	46.00	21.01	Vertical
6	835.9059	31.23	-3.96	27.27	PK	46.00	18.73	Vertical

Mode: BT 2480



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity
1	33.8839	42.35	-18.29	24.06	PK	40.00	15.94	Horizontal
2	182.4424	43.43	-18.24	25.19	PK	43.50	18.31	Horizontal
3	256.2362	40.19	-15.17	25.02	PK	46.00	20.98	Horizontal
4	602.8729	30.96	-7.12	23.84	PK	46.00	22.16	Horizontal
5	641.7117	32.21	-6.24	25.97	PK	46.00	20.03	Horizontal
6	829.1091	30.48	-4.14	26.34	PK	46.00	19.66	Horizontal

9.8 CONDUCTED EMISSION TEST

9.8.1 Applicable Standard

According to FCC Part 15.207

According to IC RSS-Gen 8.8

9.8.2 Conformance Limit

Conducted Emission Limit		
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	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.

9.8.3 Test Configuration

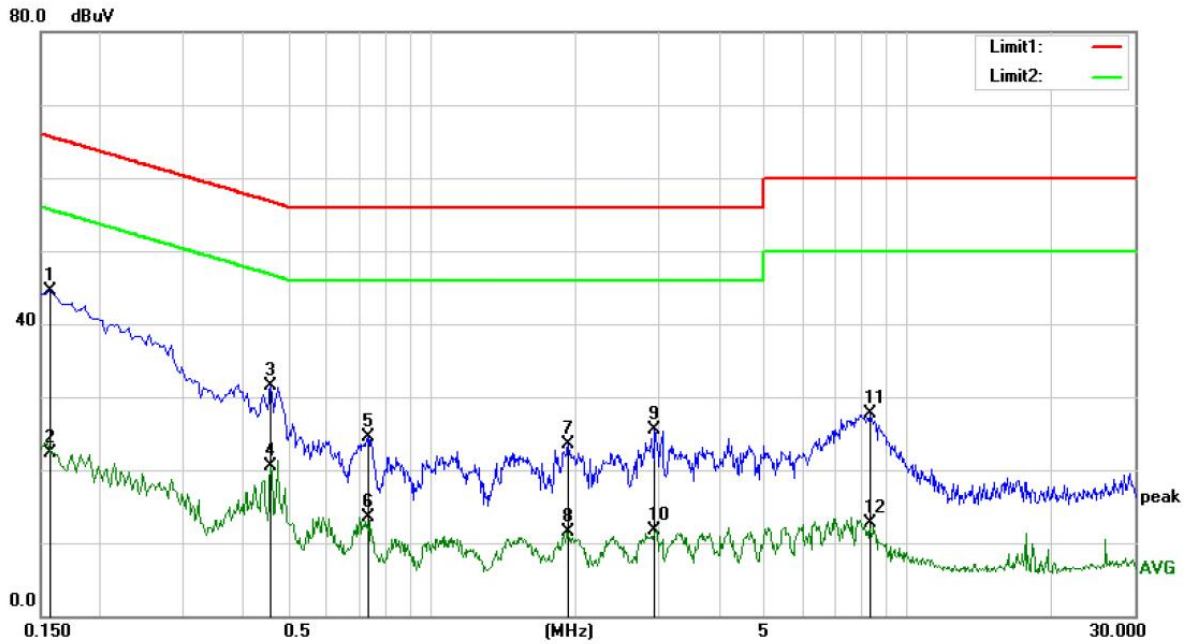
Test according to clause 7.3 conducted emission test setup

9.8.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Repeat above procedures until all frequency measured were complete.

9.8.5 Test Results

Pass



Site Conduction #2

Phase: **L1**

Temperature: 25.1

Limit: (CE)FCC PART 15 class B_QP

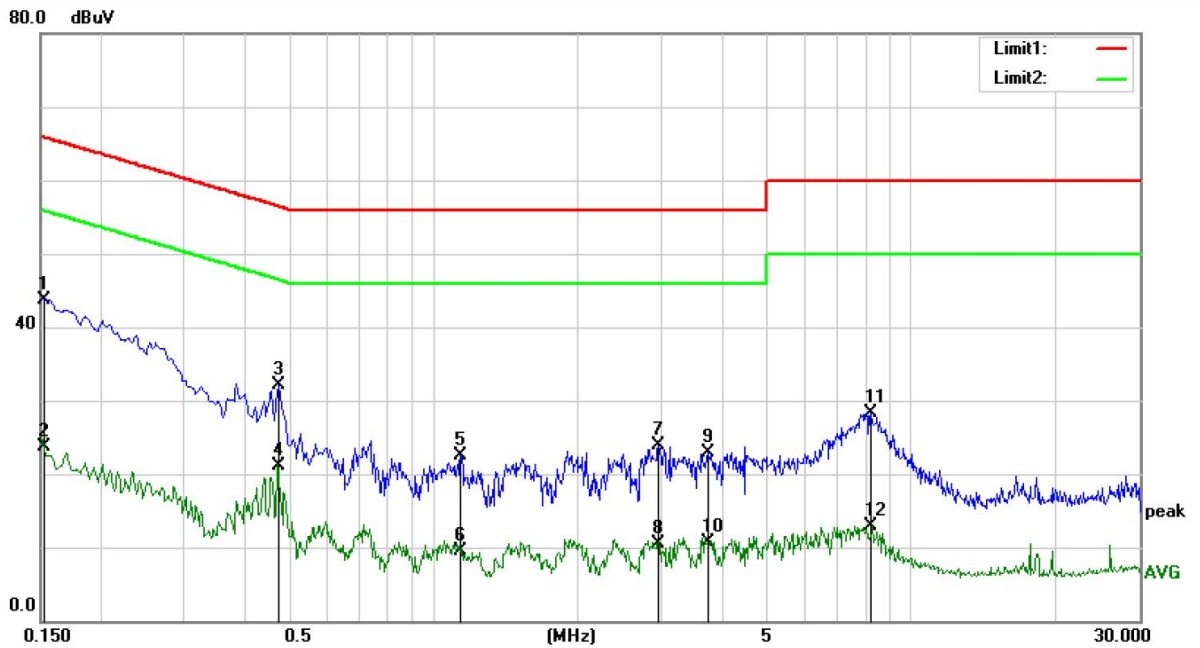
Power: AC 120V/60Hz

Humidity: 45 %

Mode: BT mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1580	34.37	10.14	44.51	65.57	-21.06	QP	
2		0.1580	12.15	10.14	22.29	55.57	-33.28	AVG	
3		0.4580	21.35	10.14	31.49	56.73	-25.24	QP	
4		0.4580	10.41	10.14	20.55	46.73	-26.18	AVG	
5		0.7340	14.34	10.16	24.50	56.00	-31.50	QP	
6		0.7340	3.29	10.16	13.45	46.00	-32.55	AVG	
7		1.9340	13.31	10.22	23.53	56.00	-32.47	QP	
8		1.9340	1.25	10.22	11.47	46.00	-34.53	AVG	
9		2.9460	15.30	10.26	25.56	56.00	-30.44	QP	
10		2.9460	1.37	10.26	11.63	46.00	-34.37	AVG	
11		8.3300	17.28	10.38	27.66	60.00	-32.34	QP	
12		8.3300	2.39	10.38	12.77	50.00	-37.23	AVG	



Site Conduction #2

Phase: **N**

Temperature: 25.1

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 45 %

Mode: BT mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1524	33.64	10.15	43.79	65.87	-22.08	QP	
2		0.1524	13.61	10.15	23.76	55.87	-32.11	AVG	
3		0.4740	21.85	10.16	32.01	56.44	-24.43	QP	
4		0.4740	11.04	10.16	21.20	46.44	-25.24	AVG	
5		1.1380	12.32	10.20	22.52	56.00	-33.48	QP	
6		1.1380	-0.71	10.20	9.49	46.00	-36.51	AVG	
7		2.9500	13.65	10.26	23.91	56.00	-32.09	QP	
8		2.9500	0.28	10.26	10.54	46.00	-35.46	AVG	
9		3.7460	12.56	10.26	22.82	56.00	-33.18	QP	
10		3.7460	0.40	10.26	10.66	46.00	-35.34	AVG	
11		8.2260	17.96	10.38	28.34	60.00	-31.66	QP	
12		8.2260	2.50	10.38	12.88	50.00	-37.12	AVG	

9.9 ANTENNA APPLICATION

9.9.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
FCC 47 CFR Part 15.247 (b)	If transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.
RSS-Gen Section 6.8	The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.
RSS-247 Section 5.4	If the transmitter employs an antenna system that emits multiple directional beams, but does not emit multiple directional beams simultaneously, the total output power conducted to the array or arrays that comprise the device (i.e. the sum of the power supplied to all antennas, antenna elements, staves, etc., and summed across all carriers or frequency channels) shall not exceed the applicable output power limit. However, the total conducted output power shall be reduced by 1 dB below the specified limits for each 3 dB that the directional gain of the antenna/antenna array exceeds 6 dBi. The directional antenna gain shall be computed as the sum of 10 log (number of array elements or staves) plus the directional gain of the element or stave having the highest gain.

9.9.2 Result

PASS.

- Note:
- Antenna use a permanently attached antenna which is not replaceable.
 - Not using a standard antenna jack or electrical connector for antenna replacement
 - The antenna has to be professionally installed (please provide method of installation)

Please refer to the attached documentInternal Photos to show the antenna connector.

*** End of Report ***