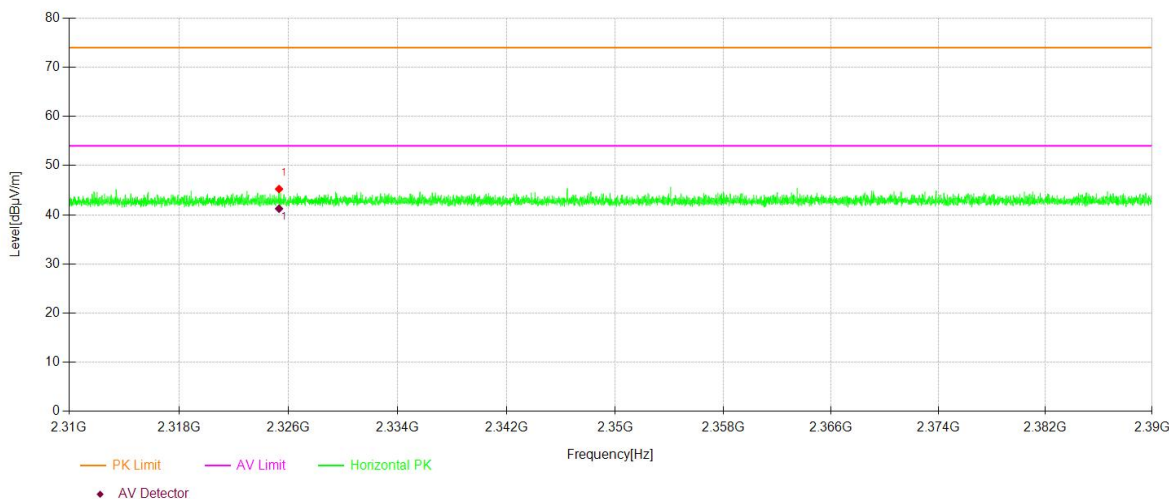
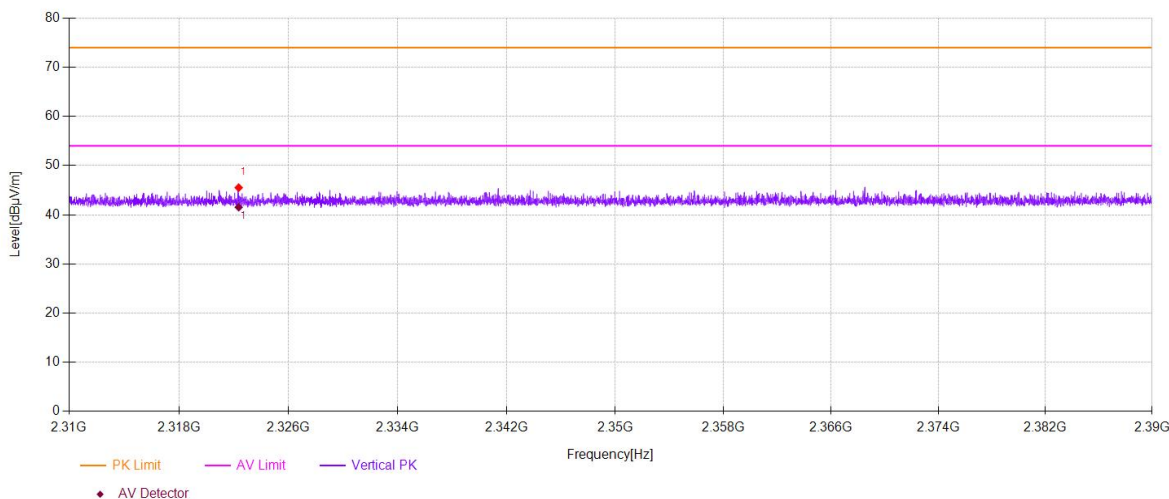


All the modulation modes were tested, the data of the worst mode are described in the following table

Test Model	Spurious Emission in Restricted Band 2310-2390MHz		
	Bluetooth DTS		
	Channel 0: 2402MHz		H



Test Model	Spurious Emission in Restricted Band 2310-2390MHz		
	Bluetooth DTS		
	Channel 0: 2402MHz		V



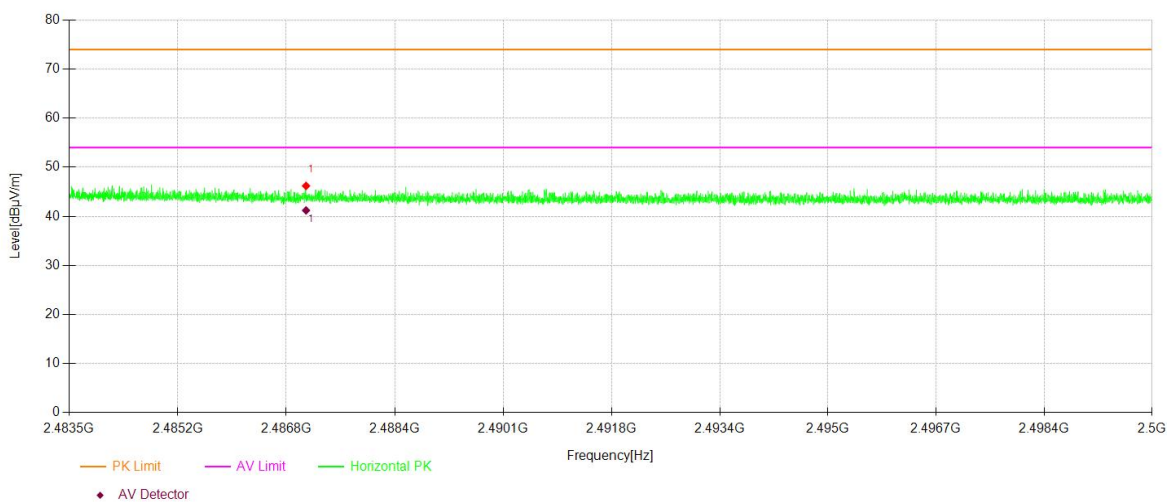
Test Model

Spurious Emission in Restricted Band 2483.5-2500MHz

Bluetooth DTS

Channel 39: 2480MHz

H



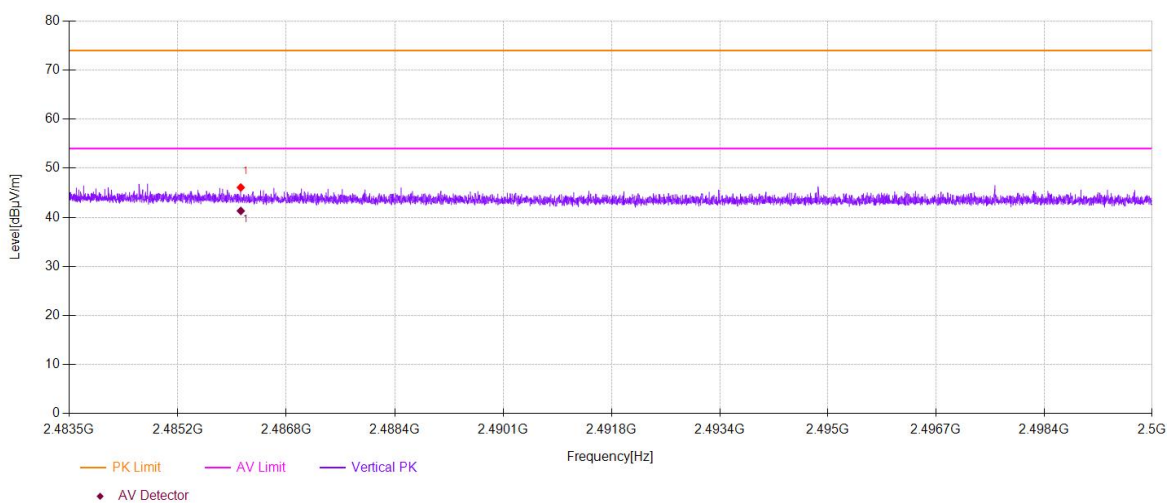
Test Model

Spurious Emission in Restricted Band 2483.5-2500MHz

Bluetooth DTS

Channel 39: 2480MHz

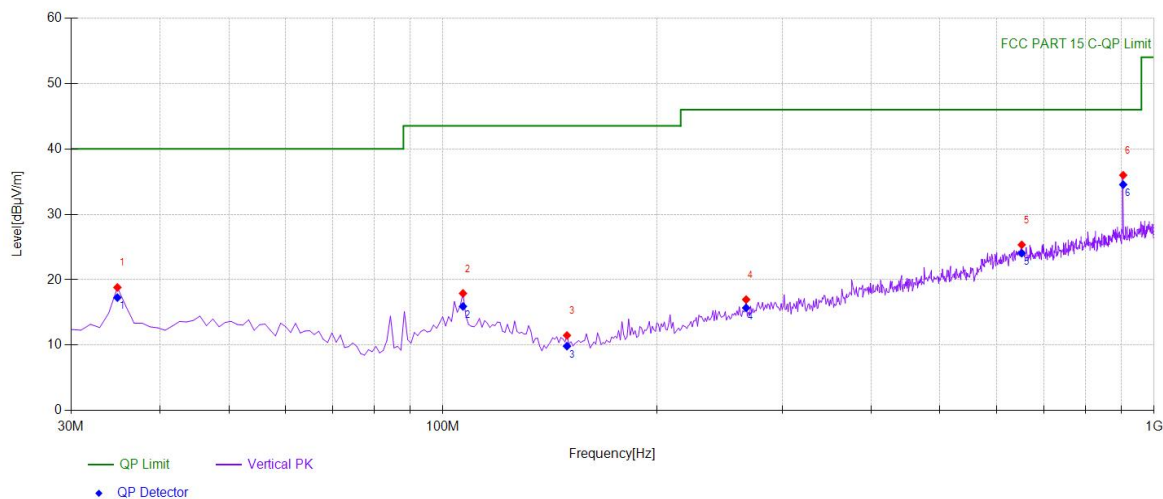
V



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

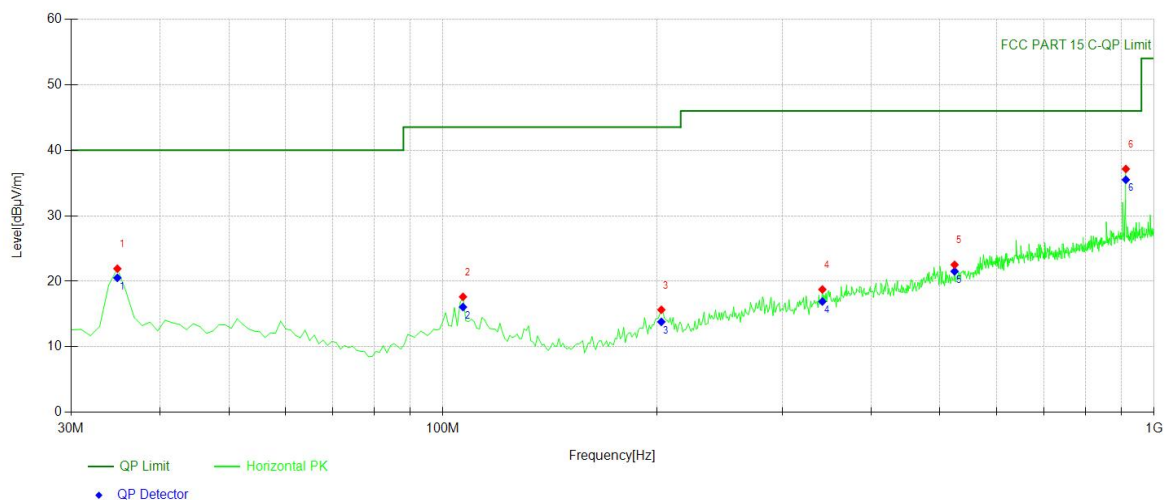
All modes have been tested, and the worst result recorded was report as below:

2402



Suspected Data List

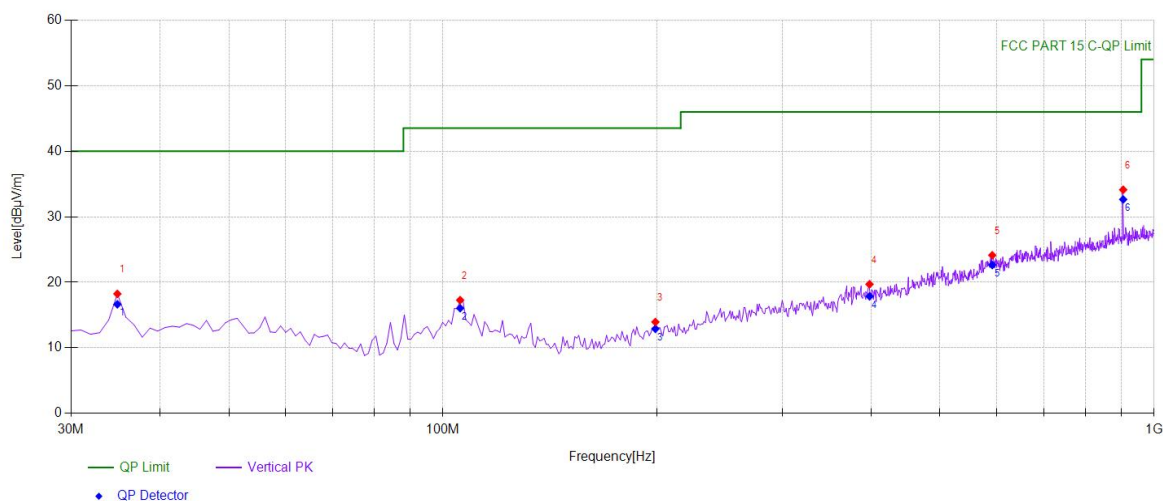
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	34.8549	37.06	-18.23	18.83	PK	40.00	21.17	Vertical
2	106.706	35.07	-17.15	17.92	PK	43.50	25.58	Vertical
3	149.429	31.28	-19.78	11.50	PK	43.50	32.00	Vertical
4	266.916	31.86	-14.88	16.98	PK	46.00	29.02	Vertical
5	651.421	31.56	-6.21	25.35	PK	46.00	20.65	Vertical
6	904.844	38.80	-2.82	35.98	PK	46.00	10.02	Vertical



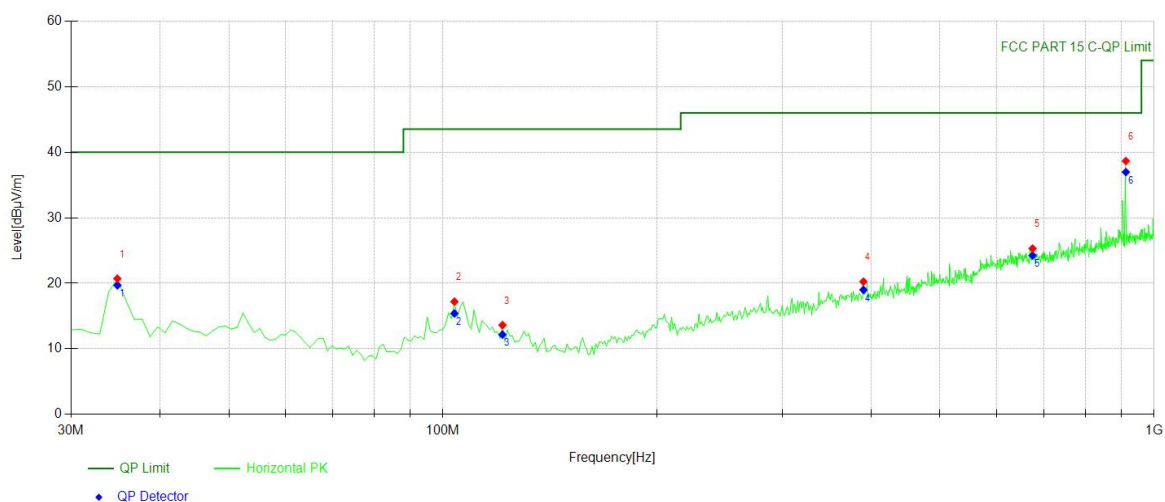
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	34.8549	40.16	-18.23	21.93	PK	40.00	18.07	Horizontal
2	106.706	34.79	-17.15	17.64	PK	43.50	25.86	Horizontal
3	202.832	32.79	-17.13	15.66	PK	43.50	27.84	Horizontal
4	341.681	32.21	-13.45	18.76	PK	46.00	27.24	Horizontal
5	524.224	32.18	-9.65	22.53	PK	46.00	23.47	Horizontal
6	912.612	39.99	-2.85	37.14	PK	46.00	8.86	Horizontal

2440



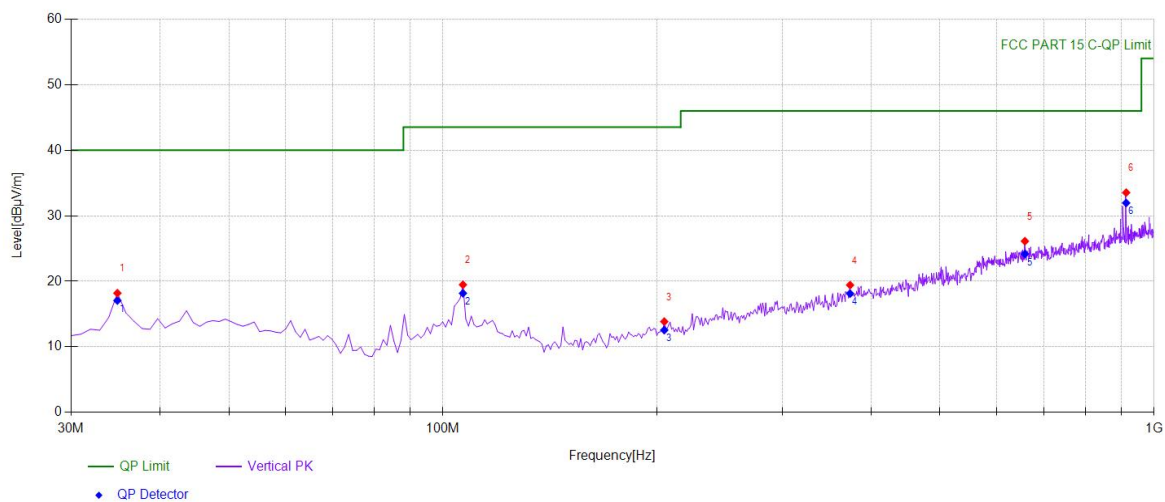
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	34.8549	36.47	-18.23	18.24	PK	40.00	21.76	Vertical
2	105.735	34.39	-17.10	17.29	PK	43.50	26.21	Vertical
3	198.948	31.15	-17.20	13.95	PK	43.50	29.55	Vertical
4	397.998	31.51	-11.80	19.71	PK	46.00	26.29	Vertical
5	592.192	31.27	-7.14	24.13	PK	46.00	21.87	Vertical
6	904.844	36.94	-2.82	34.12	PK	46.00	11.88	Vertical



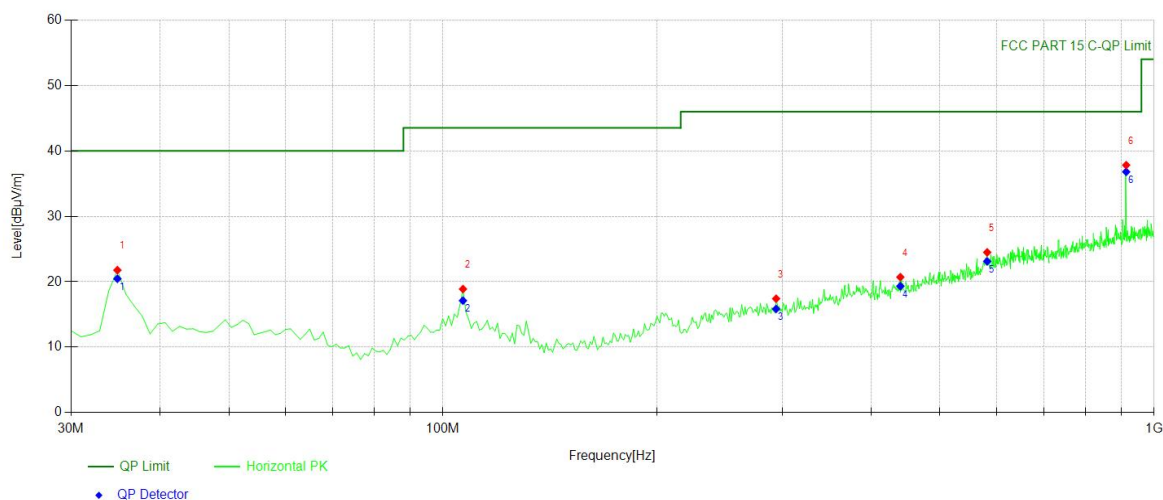
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	34.8549	38.94	-18.23	20.71	PK	40.00	19.29	Horizontal
2	103.793	34.21	-17.00	17.21	PK	43.50	26.29	Horizontal
3	121.271	31.69	-18.06	13.63	PK	43.50	29.87	Horizontal
4	390.230	32.09	-11.83	20.26	PK	46.00	25.74	Horizontal
5	674.724	31.43	-6.12	25.31	PK	46.00	20.69	Horizontal
6	912.612	41.51	-2.85	38.66	PK	46.00	7.34	Horizontal

2480



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	34.8549	36.43	-18.23	18.20	PK	40.00	21.80	Vertical
2	106.706	36.63	-17.15	19.48	PK	43.50	24.02	Vertical
3	204.774	30.99	-17.13	13.86	PK	43.50	29.64	Vertical
4	373.723	31.77	-12.34	19.43	PK	46.00	26.57	Vertical
5	658.218	32.27	-6.15	26.12	PK	46.00	19.88	Vertical
6	913.583	36.38	-2.85	33.53	PK	46.00	12.47	Vertical



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	34.8549	40.01	-18.23	21.78	PK	40.00	18.22	Horizontal
2	106.706	36.04	-17.15	18.89	PK	43.50	24.61	Horizontal
3	294.104	31.57	-14.15	17.42	PK	46.00	28.58	Horizontal
4	439.749	31.90	-11.19	20.71	PK	46.00	25.29	Horizontal
5	582.482	31.64	-7.14	24.50	PK	46.00	21.50	Horizontal
6	913.583	40.67	-2.85	37.82	PK	46.00	8.18	Horizontal

8.6 CONDUCTED EMISSIONS TEST

8.6.1 Applicable Standard

According to FCC Part 15.207(a)

8.6.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit	
	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.

8.6.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

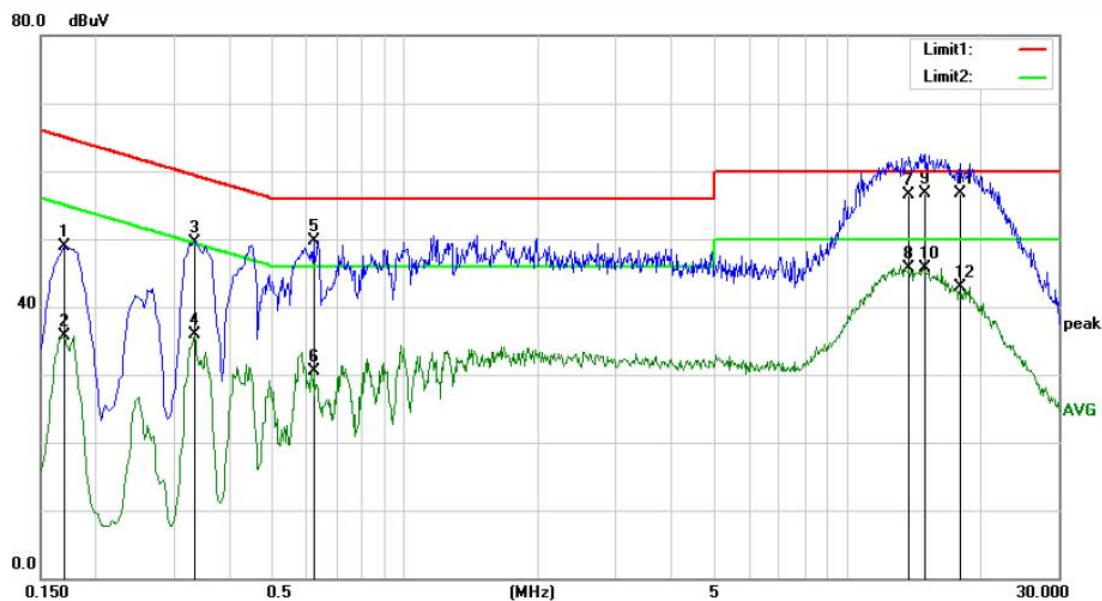
8.6.4 Test Procedure

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.

8.6.5 Test Results

Pass

The 120V & 240V voltage have been tested, and the worst result recorded was report as below:



Site Conduction #2

Phase: **L1**

Temperature: 25.1

Limit: (CE)FCC PART 15 class B_QP

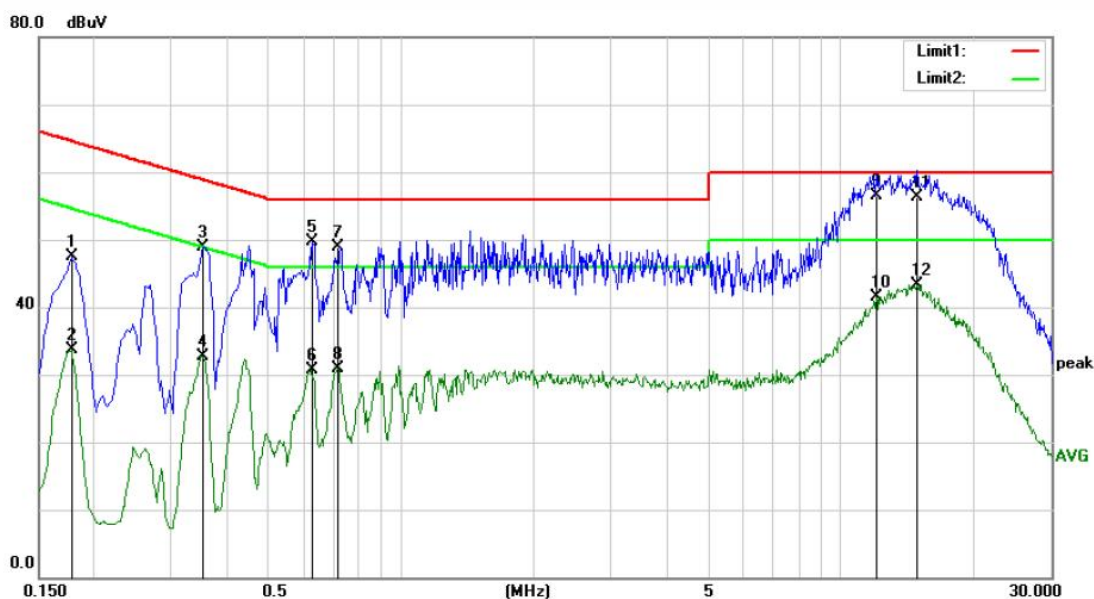
Power: AC 120V/60Hz

Humidity: 45 %

Mode: BT mode

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.1700	38.78	10.09	48.87	64.96	-16.09	QP	
2		0.1700	25.70	10.09	35.79	54.96	-19.17	AVG	
3		0.3340	39.47	10.09	49.56	59.35	-9.79	QP	
4		0.3340	25.73	10.09	35.82	49.35	-13.53	AVG	
5		0.6220	39.55	10.12	49.67	56.00	-6.33	QP	
6		0.6220	20.43	10.12	30.55	46.00	-15.45	AVG	
7		13.7940	46.00	10.50	56.50	60.00	-3.50	QP	
8		13.7940	35.12	10.50	45.62	50.00	-4.38	AVG	
9	*	15.0260	46.17	10.53	56.70	60.00	-3.30	QP	
10		15.0260	35.23	10.53	45.76	50.00	-4.24	AVG	
11		17.9580	46.27	10.43	56.70	60.00	-3.30	QP	
12		17.9580	32.52	10.43	42.95	50.00	-7.05	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. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1780	37.41	10.10	47.51	64.58	-17.07	QP	
2		0.1780	23.55	10.10	33.65	54.58	-20.93	AVG	
3		0.3540	38.83	10.10	48.93	58.87	-9.94	QP	
4		0.3540	22.70	10.10	32.80	48.87	-16.07	AVG	
5		0.6300	39.49	10.13	49.62	56.00	-6.38	QP	
6		0.6300	20.48	10.13	30.61	46.00	-15.39	AVG	
7		0.7180	38.78	10.14	48.92	56.00	-7.08	QP	
8		0.7180	20.86	10.14	31.00	46.00	-15.00	AVG	
9	*	12.0340	46.03	10.47	56.50	60.00	-3.50	QP	
10		12.0340	31.05	10.47	41.52	50.00	-8.48	AVG	
11		14.8700	45.77	10.53	56.30	60.00	-3.70	QP	
12		14.8700	32.74	10.53	43.27	50.00	-6.73	AVG	

8.7 ANTENNA APPLICATION

8.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 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.

8.7.2 Result

PASS.

The EUT has 1 antenna: a Internal Antenna for BT , the gain is 0.98 dBi;

Note: ☒ Antennas 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)

which in accordance to section 15.203, please refer to the internal photos.

Detail of factor for radiated emission

Frequency(MHz)	Ant_F(dB)	Cab_L(dB)	Preamp(dB)	Correct Factor(dB)
0.009	20.6	0.03	\	20.63
0.15	20.7	0.1	\	20.8
1	20.9	0.15	\	21.05
10	20.1	0.28	\	20.38
30	18.8	0.45	\	19.25
30	11.7	0.62	27.9	-15.58
100	12.5	1.02	27.8	-14.28
300	12.9	1.91	27.5	-12.69
600	19.2	2.92	27	-4.88
800	21.1	3.54	26.6	-1.96
1000	22.3	4.17	26.2	0.27
1000	25.6	1.76	41.4	-14.04
3000	28.9	3.27	43.2	-11.03
5000	31.1	4.2	44.6	-9.3
8000	36.2	5.95	44.7	-2.55
10000	38.4	6.3	43.9	0.8
12000	38.5	7.14	42.3	3.34
15000	40.2	8.15	41.4	6.95
18000	45.4	9.02	41.3	13.12
18000	37.9	1.81	47.9	-8.19
21000	37.9	1.95	48.7	-8.85
25000	39.3	2.01	42.8	-1.49
28000	39.6	2.16	46.0	-4.24
31000	41.2	2.24	44.5	-1.06
34000	41.5	2.29	46.6	-2.81
37000	43.8	2.30	46.4	-0.3
40000	43.2	2.50	42.2	3.5

----- END OF REPORT -----