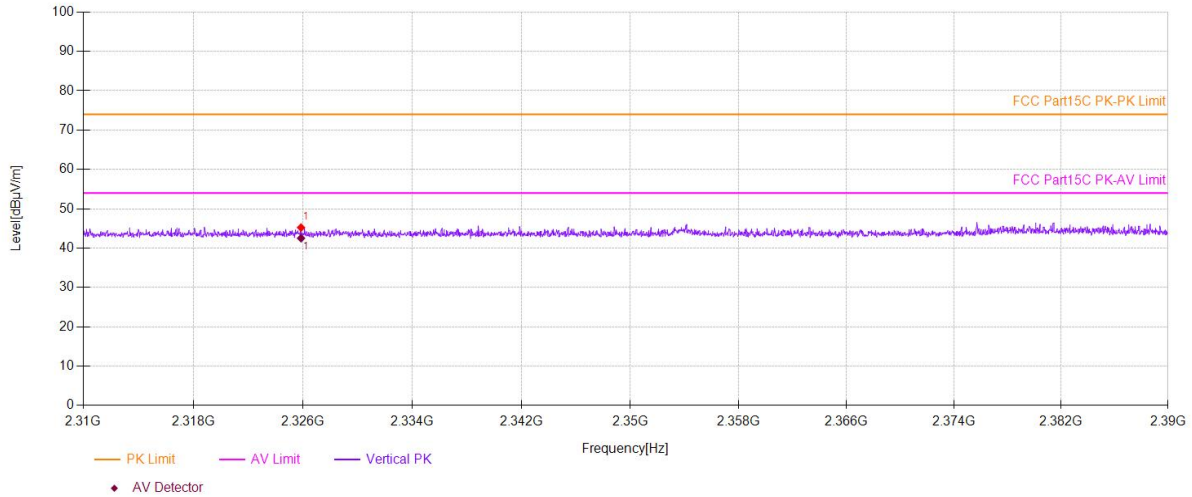
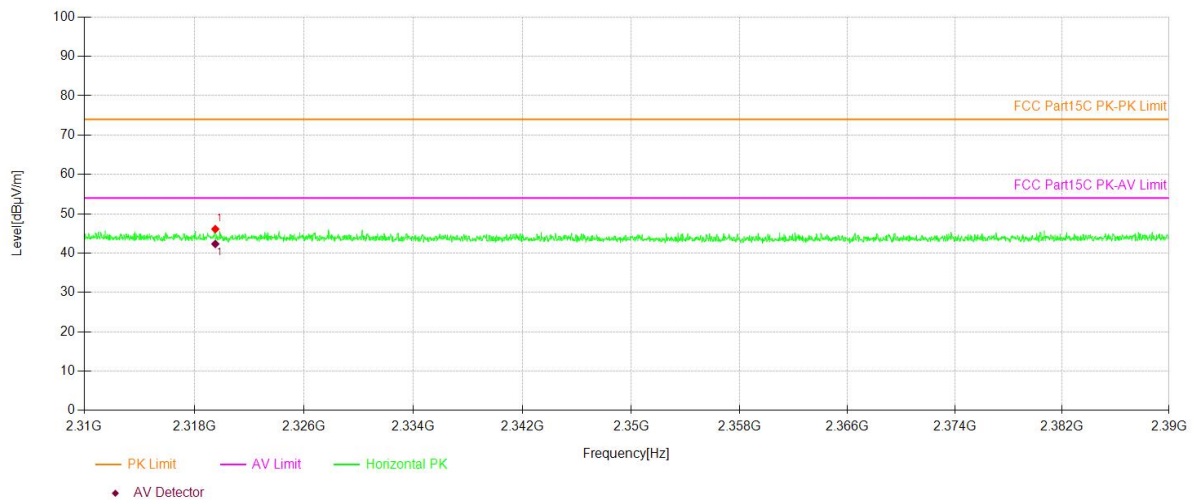


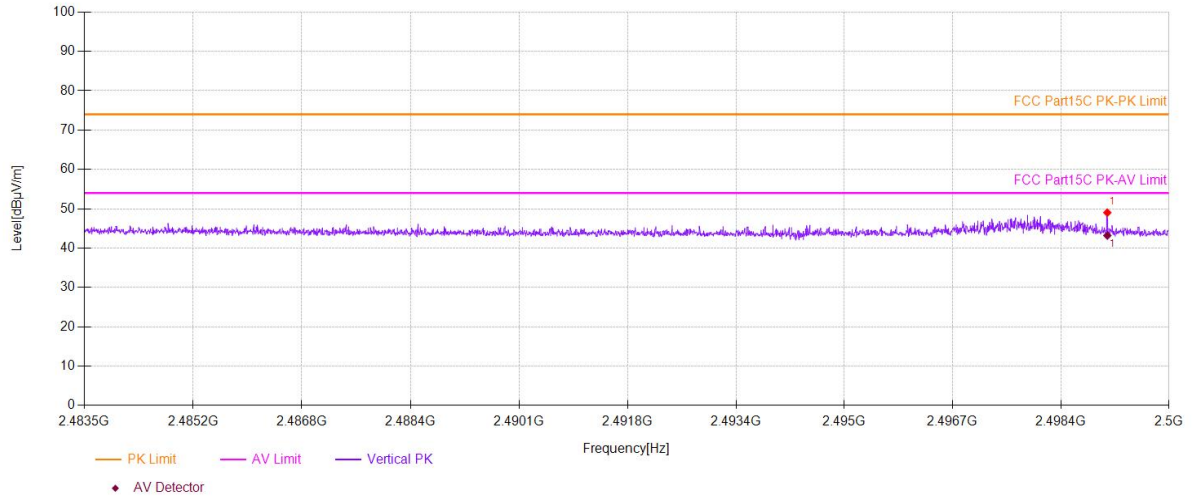
Test Model	Spurious Emission in Restricted Band 2310-2390MHz Channel 0: 2402MHz	GFSK	V
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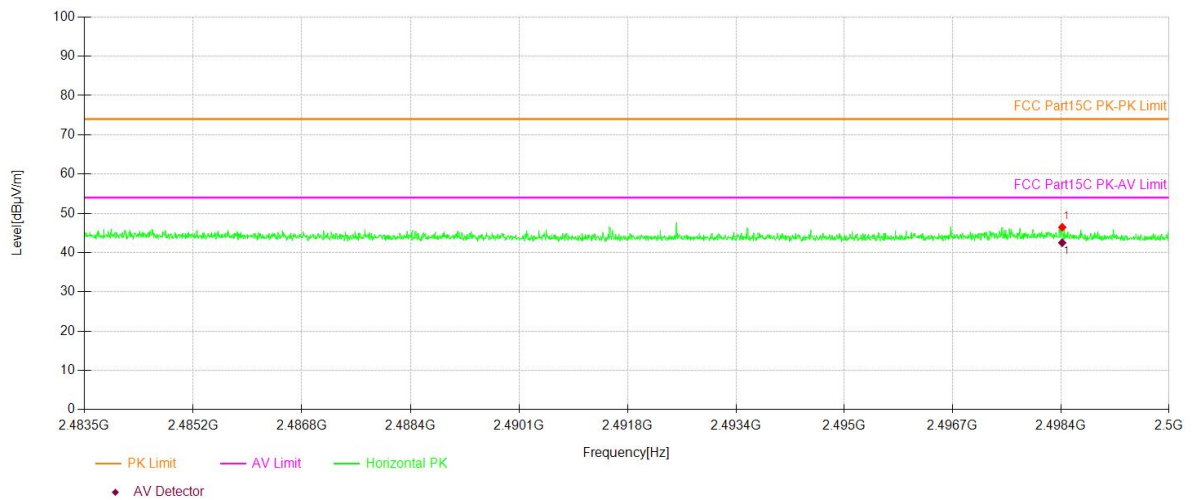
Test Model	Spurious Emission in Restricted Band 2310-2390MHz Channel 0: 2402MHz	GFSK	H
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Test Model	Spurious Emission in Restricted Band 2483.5-2500MHz Channel 78: 2480MHz	GFSK	V
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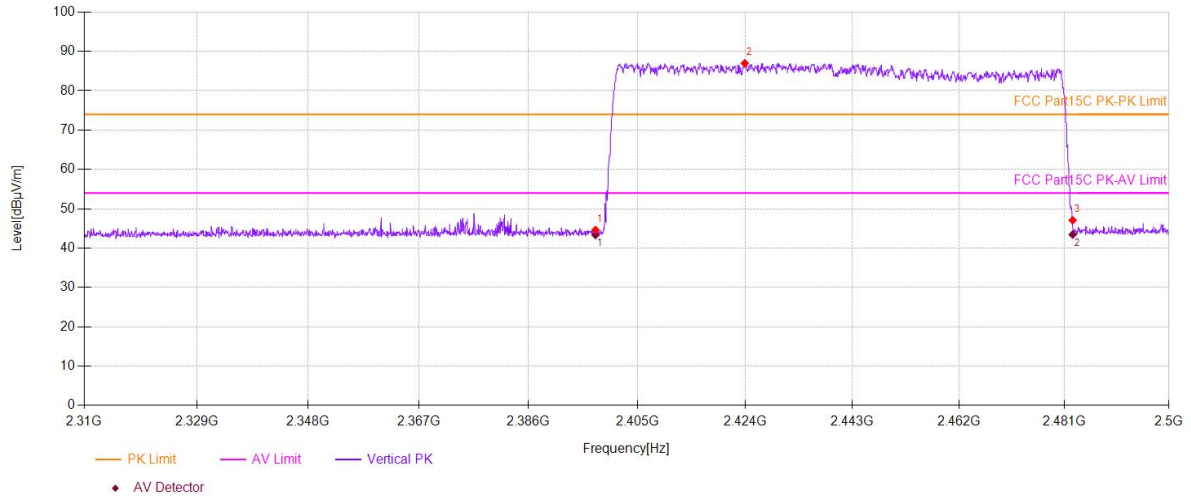


Test Model	Spurious Emission in Restricted Band 2483.5-2500MHz Channel 78: 2480MHz	GFSK	H
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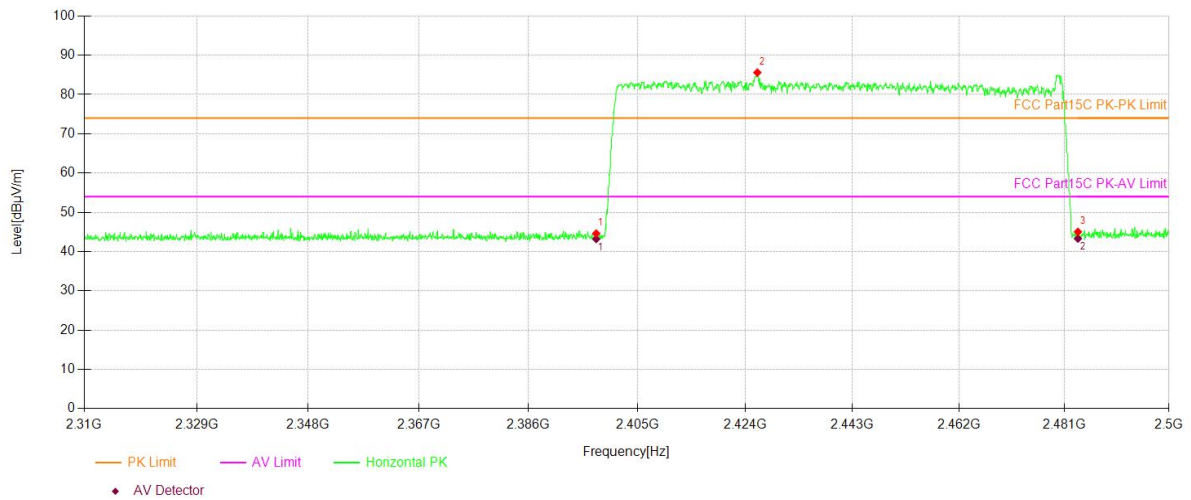
Test Model

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

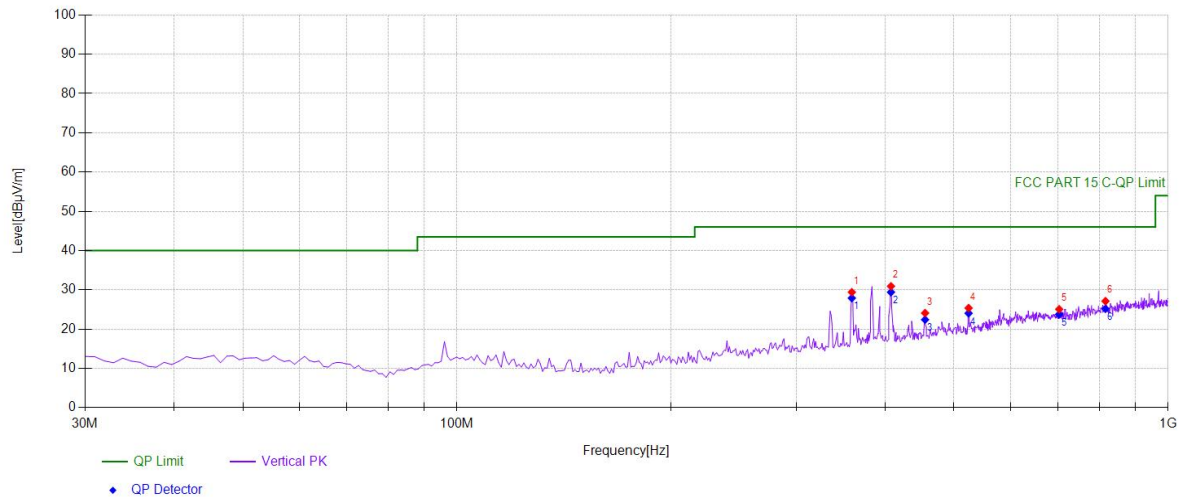


■ Spurious Emission below 1GHz(30MHz to 1GHz)

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:

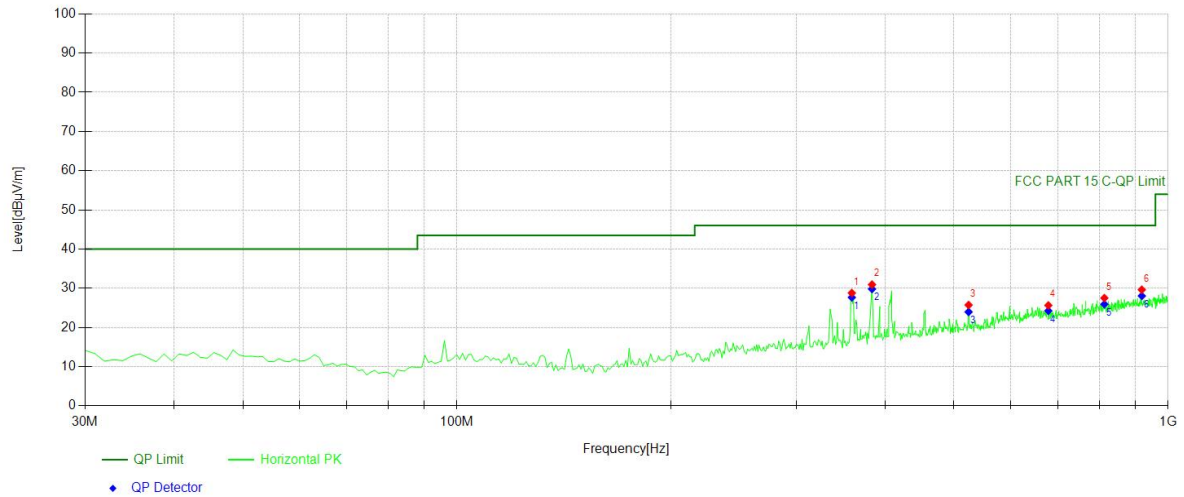
■

Mode:	BT 2402
Environment:	Temp: 25℃; Humi:60%



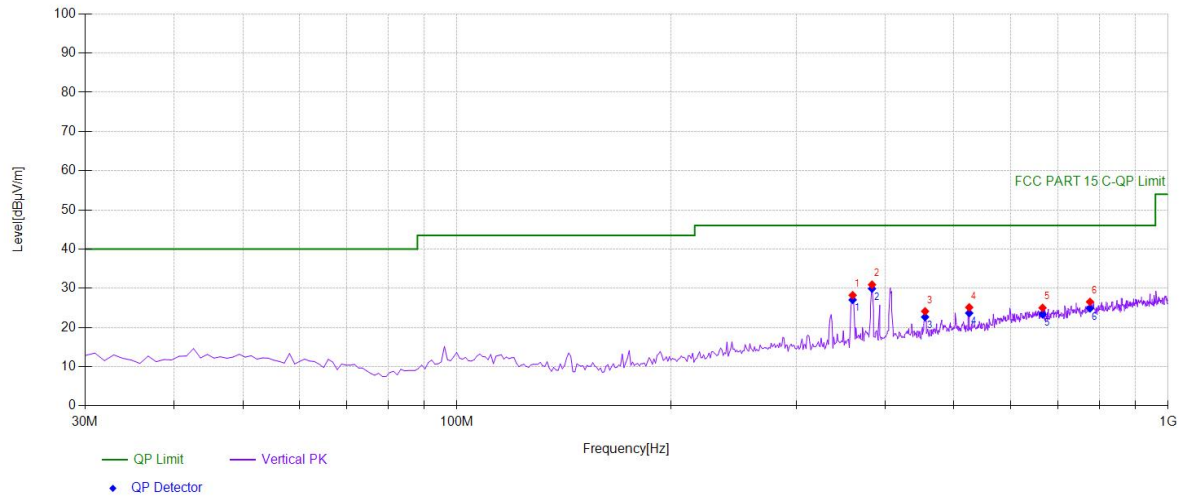
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	359.159	42.85	-13.44	29.41	PK	46.00	16.59	Vertical
2	407.707	42.70	-11.78	30.92	PK	46.00	15.08	Vertical
3	455.285	35.16	-11.08	24.08	PK	46.00	21.92	Vertical
4	524.224	35.01	-9.65	25.36	PK	46.00	20.64	Vertical
5	702.882	30.99	-5.91	25.08	PK	46.00	20.92	Vertical
6	816.486	31.45	-4.31	27.14	PK	46.00	18.86	Vertical

Mode:	BT 2402
Environment:	Temp: 25°C; Humi:60%



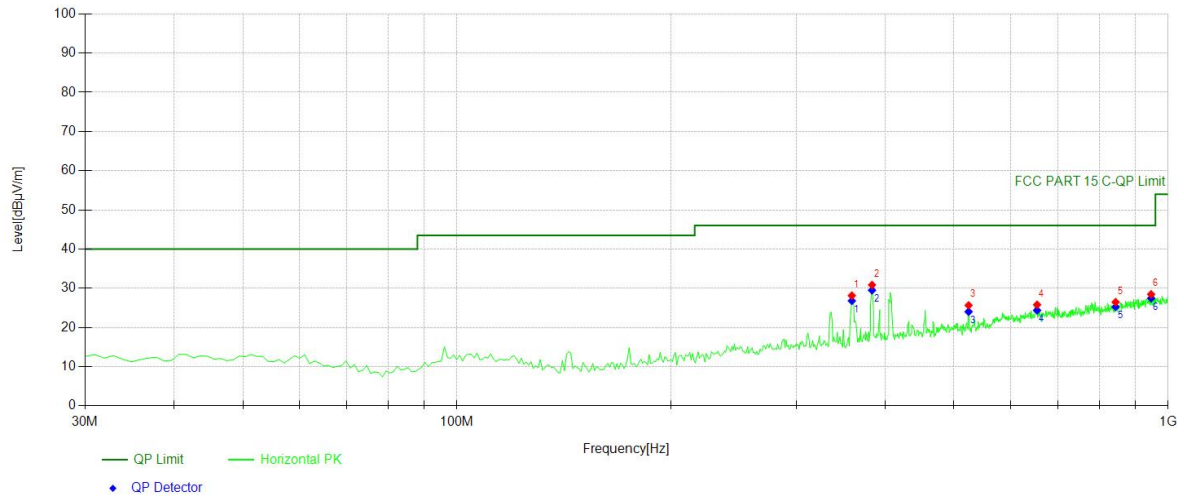
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	359.159	42.24	-13.44	28.80	PK	46.00	17.20	Horizontal
2	383.433	42.78	-11.83	30.95	PK	46.00	15.05	Horizontal
3	524.224	35.39	-9.65	25.74	PK	46.00	20.26	Horizontal
4	678.608	31.75	-6.10	25.65	PK	46.00	20.35	Horizontal
5	813.573	31.84	-4.32	27.52	PK	46.00	18.48	Horizontal
6	918.438	32.49	-2.86	29.63	PK	46.00	16.37	Horizontal

Mode:	BT 2441
Environment:	Temp: 25°C; Humi:60%



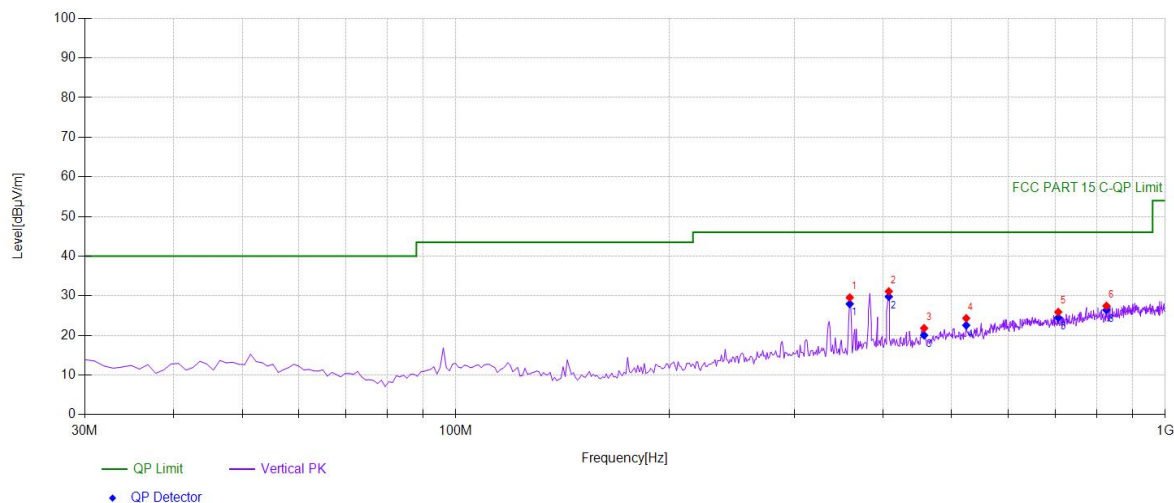
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	360.130	41.66	-13.43	28.23	PK	46.00	17.77	Vertical
2	383.433	42.75	-11.83	30.92	PK	46.00	15.08	Vertical
3	455.285	35.21	-11.08	24.13	PK	46.00	21.87	Vertical
4	525.195	34.75	-9.62	25.13	PK	46.00	20.87	Vertical
5	665.986	31.15	-6.14	25.01	PK	46.00	20.99	Vertical
6	776.676	31.28	-4.75	26.53	PK	46.00	19.47	Vertical

Mode:	BT 2441
Environment:	Temp: 25°C; Humi:60%



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	359.159	41.57	-13.44	28.13	PK	46.00	17.87	Horizontal
2	383.433	42.69	-11.83	30.86	PK	46.00	15.14	Horizontal
3	524.224	35.29	-9.65	25.64	PK	46.00	20.36	Horizontal
4	654.334	31.98	-6.18	25.80	PK	46.00	20.20	Horizontal
5	843.673	30.31	-3.84	26.47	PK	46.00	19.53	Horizontal
6	946.596	30.83	-2.37	28.46	PK	46.00	17.54	Horizontal

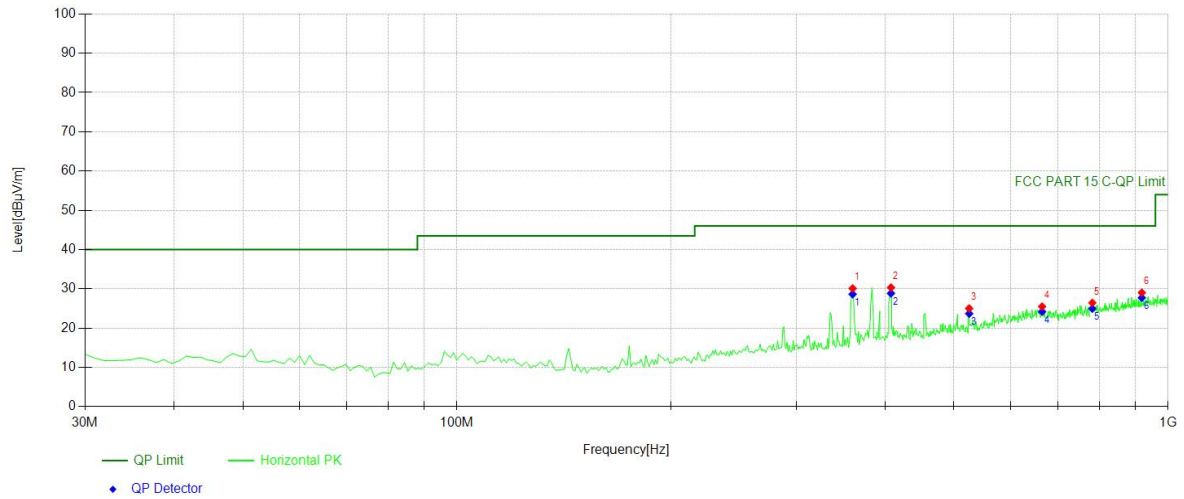
Mode:	BT 2480
Environment:	Temp: 25°C; Humi:60%



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	359.159	43.00	-13.44	29.56	PK	46.00	16.44	Vertical
2	407.707	42.88	-11.78	31.10	PK	46.00	14.90	Vertical
3	457.227	32.87	-11.06	21.81	PK	46.00	24.19	Vertical
4	524.224	33.98	-9.65	24.33	PK	46.00	21.67	Vertical
5	706.766	31.77	-5.87	25.90	PK	46.00	20.10	Vertical
6	826.196	31.65	-4.19	27.46	PK	46.00	18.54	Vertical

Mode:	BT 2480
Environment:	Temp: 25°C; Humi:60%



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	360.130	43.54	-13.43	30.11	PK	46.00	15.89	Horizontal
2	407.707	42.11	-11.78	30.33	PK	46.00	15.67	Horizontal
3	525.195	34.63	-9.62	25.01	PK	46.00	20.99	Horizontal
4	665.015	31.64	-6.14	25.50	PK	46.00	20.50	Horizontal
5	782.502	31.02	-4.59	26.43	PK	46.00	19.57	Horizontal
6	918.438	31.89	-2.86	29.03	PK	46.00	16.97	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

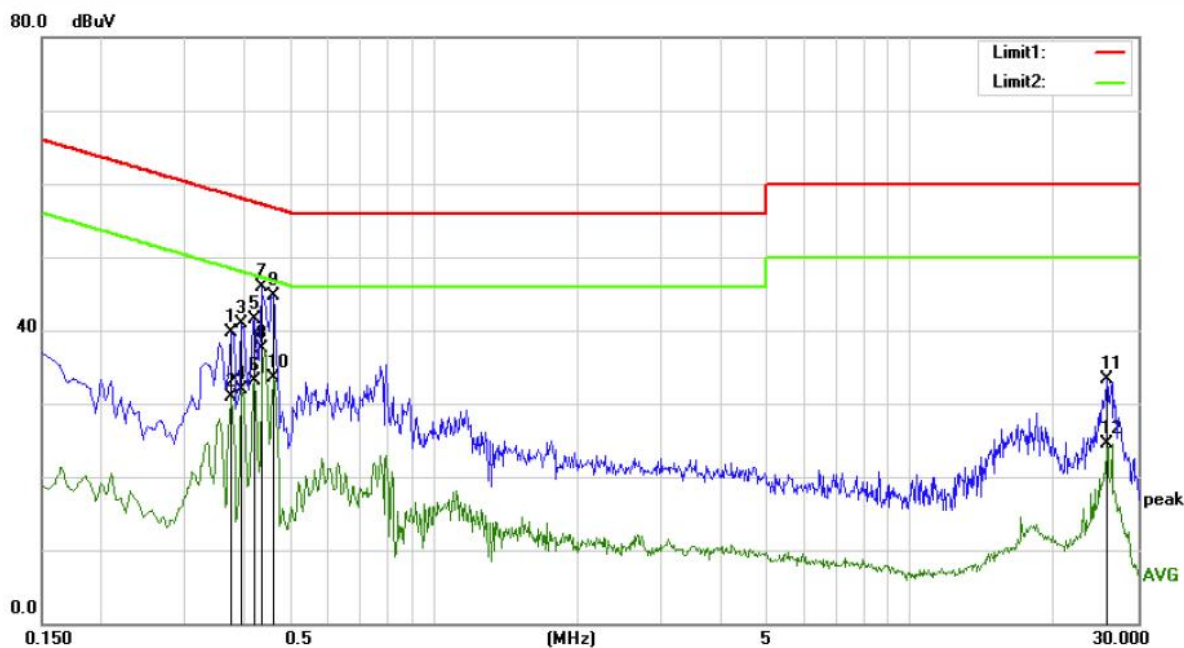
9.8.4 Test Procedure

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

The AC120V &240V voltage have been tested, and the worst result recorded was report as below:



Site Conduction #1

Phase: **L1**

Temperature: 21.9

Limit: (CE)FCC PART 15 class B_QP

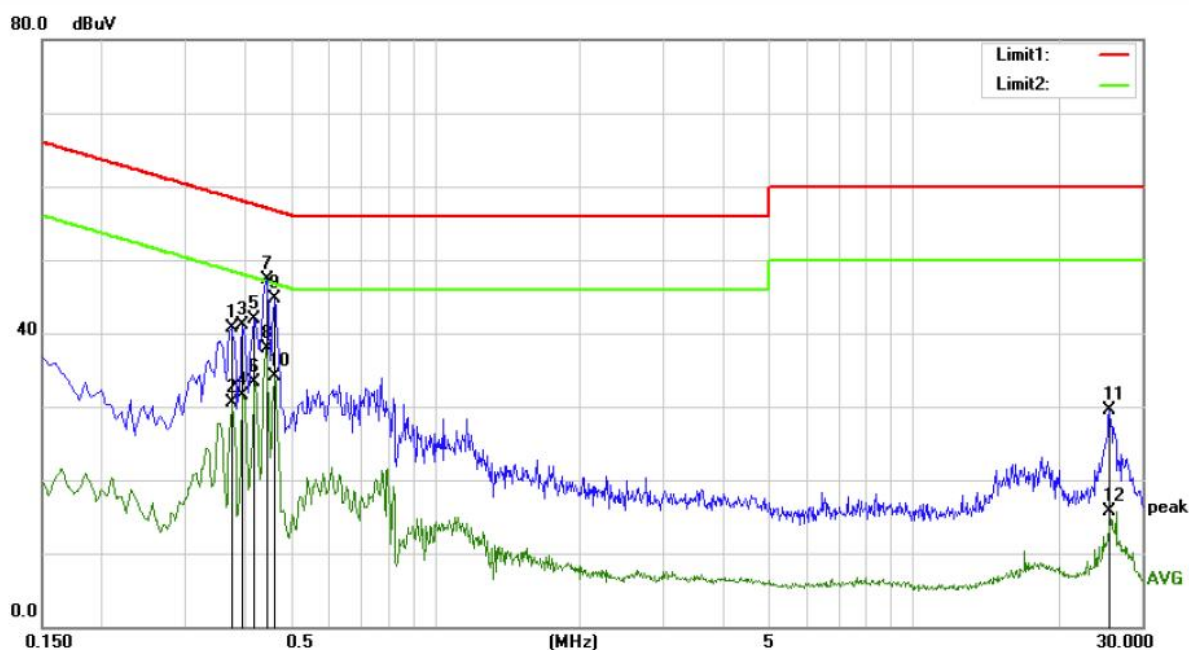
Power: AC 120V/60Hz

Humidity: 58 %

Mode: BT mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.3750	29.89	9.87	39.76	58.39	-18.63	QP	
2		0.3750	21.08	9.87	30.95	48.39	-17.44	AVG	
3		0.3950	31.13	9.83	40.96	57.96	-17.00	QP	
4		0.3950	22.03	9.83	31.86	47.96	-16.10	AVG	
5		0.4200	31.64	9.79	41.43	57.45	-16.02	QP	
6		0.4200	23.29	9.79	33.08	47.45	-14.37	AVG	
7		0.4350	36.17	9.77	45.94	57.16	-11.22	QP	
8	*	0.4350	27.81	9.77	37.58	47.16	-9.58	AVG	
9		0.4600	34.88	9.73	44.61	56.69	-12.08	QP	
10		0.4600	23.70	9.73	33.43	46.69	-13.26	AVG	
11		25.8550	23.56	9.78	33.34	60.00	-26.66	QP	
12		25.8550	14.67	9.78	24.45	50.00	-25.55	AVG	



Site Conduction #1

Phase: **N**

Temperature: 21.9

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 58 %

Mode: BT mode

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3750	30.92	9.87	40.79	58.39	-17.60	QP	
2		0.3750	20.55	9.87	30.42	48.39	-17.97	AVG	
3		0.3950	31.35	9.83	41.18	57.96	-16.78	QP	
4		0.3950	21.60	9.83	31.43	47.96	-16.53	AVG	
5		0.4150	32.12	9.80	41.92	57.55	-15.63	QP	
6		0.4150	23.49	9.80	33.29	47.55	-14.26	AVG	
7		0.4450	37.61	9.75	47.36	56.97	-9.61	QP	
8	*	0.4450	28.25	9.75	38.00	46.97	-8.97	AVG	
9		0.4600	34.91	9.73	44.64	56.69	-12.05	QP	
10		0.4600	24.30	9.73	34.03	46.69	-12.66	AVG	
11		25.7050	19.65	9.77	29.42	60.00	-30.58	QP	
12		25.7050	6.00	9.77	15.77	50.00	-34.23	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 staff 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 ***