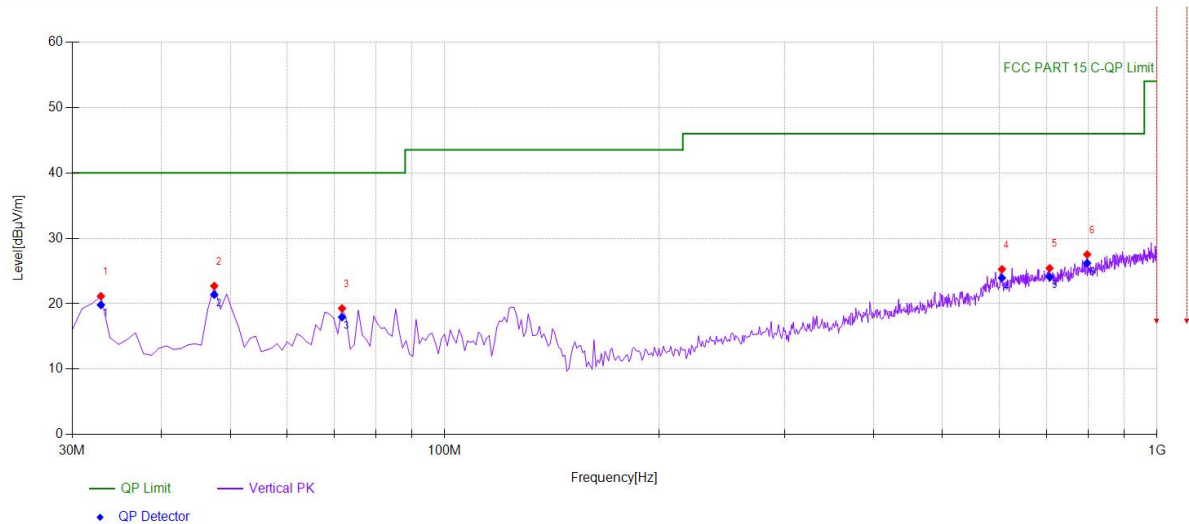


■ Spurious Emission below 1GHz(30MHz to 1GHz)

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:

■

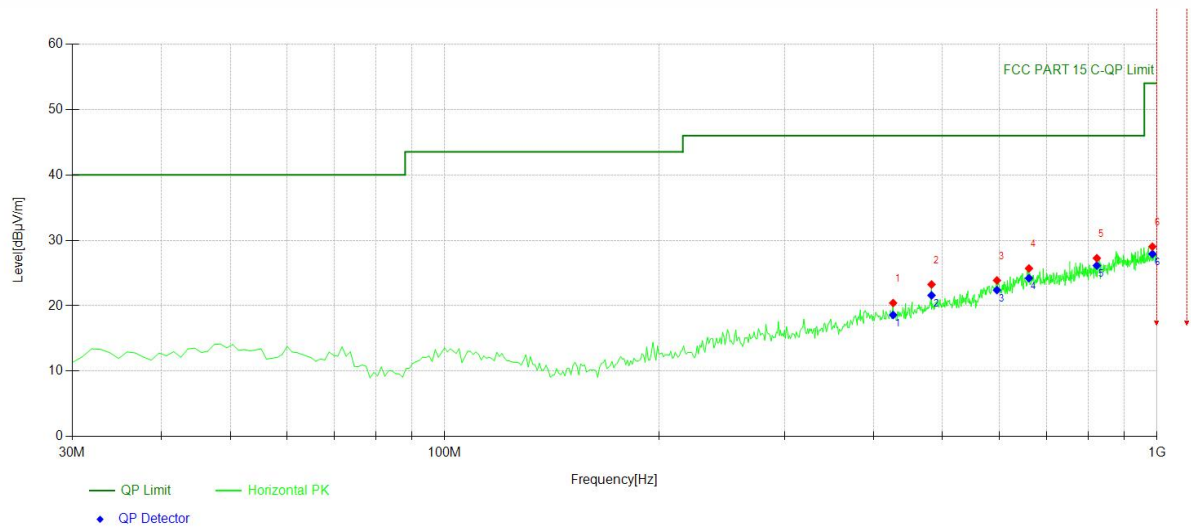
Mode:	BT 2402
Environment:	Temp: 25°C; Humi:60%



Suspected Data List

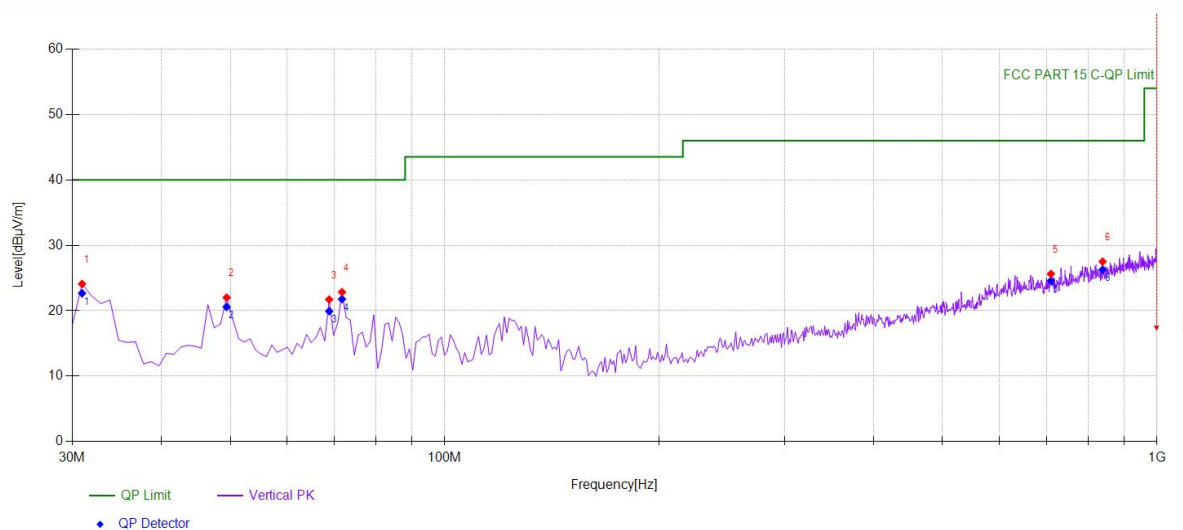
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	32.9129	39.51	-18.35	21.16	PK	40.00	18.84	Vertical
2	47.4775	40.11	-17.39	22.72	PK	40.00	17.28	Vertical
3	71.7518	39.52	-20.23	19.29	PK	40.00	20.71	Vertical
4	605.7858	32.39	-7.11	25.28	PK	46.00	20.72	Vertical
5	706.7668	31.30	-5.87	25.43	PK	46.00	20.57	Vertical
6	798.038	31.98	-4.44	27.54	PK	46.00	18.46	Vertical

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



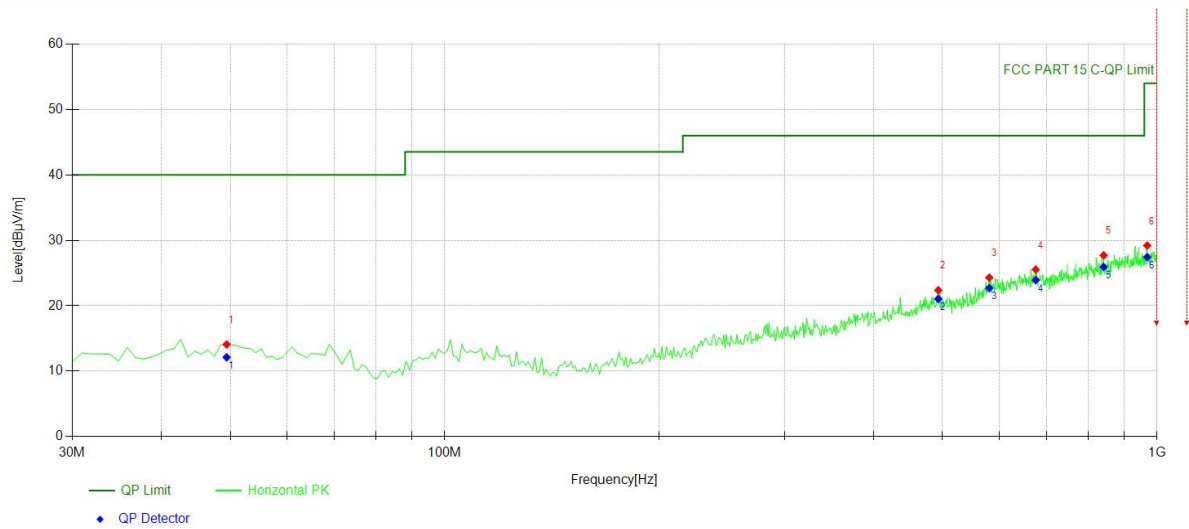
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	426.1562	31.99	-11.57	20.42	PK	46.00	25.58	Horizontal
2	482.4725	33.04	-9.78	23.26	PK	46.00	22.74	Horizontal
3	596.0761	31.02	-7.14	23.88	PK	46.00	22.12	Horizontal
4	661.1311	31.84	-6.14	25.70	PK	46.00	20.30	Horizontal
5	823.2833	31.50	-4.23	27.27	PK	46.00	18.73	Horizontal
6	985.4354	30.77	-1.74	29.03	PK	54.00	24.97	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	30.971	42.57	-18.47	24.10	PK	40.00	15.90	Vertical
2	49.4194	39.26	-17.25	22.01	PK	40.00	17.99	Vertical
3	68.8388	41.52	-19.80	21.72	PK	40.00	18.28	Vertical
4	71.7518	43.08	-20.23	22.85	PK	40.00	17.15	Vertical
5	709.6797	31.47	-5.84	25.63	PK	46.00	20.37	Vertical
6	838.8188	31.40	-3.89	27.51	PK	46.00	18.49	Vertical

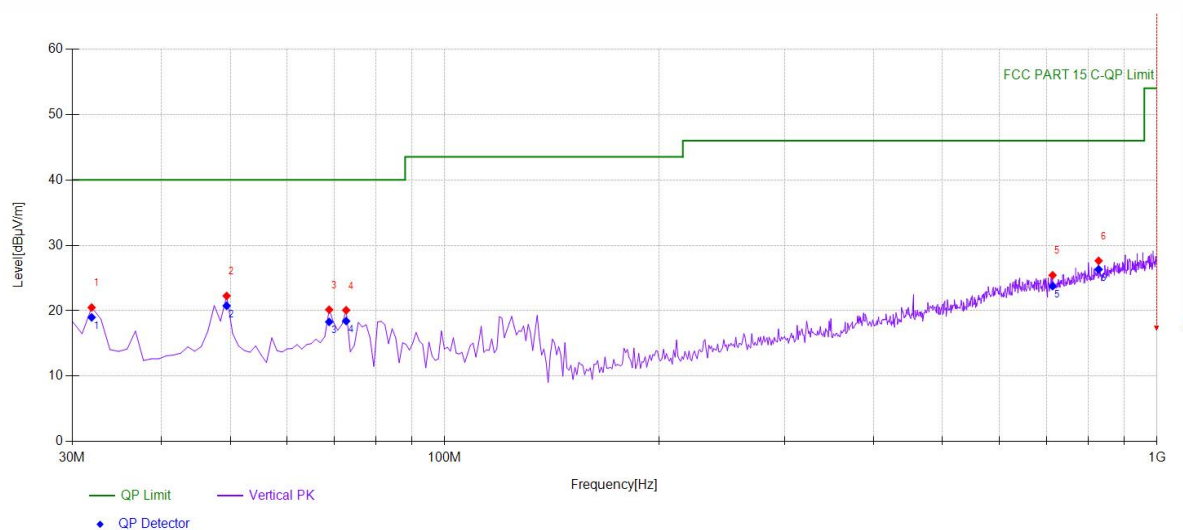
Mode:	BT 2441
Environment:	Temp: 25°C; Humi:60%



Suspected Data List

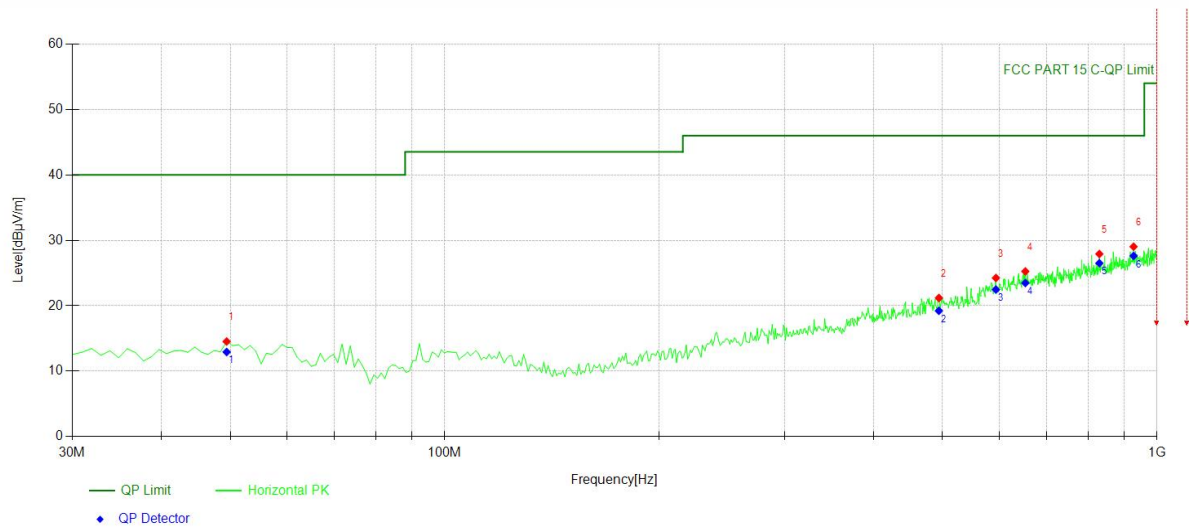
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	49.4194	31.35	-17.25	14.10	PK	40.00	25.90	Horizontal
2	493.1532	32.17	-9.79	22.38	PK	46.00	23.62	Horizontal
3	581.5115	31.44	-7.14	24.30	PK	46.00	21.70	Horizontal
4	675.6957	31.66	-6.12	25.54	PK	46.00	20.46	Horizontal
5	841.7317	31.55	-3.85	27.70	PK	46.00	18.30	Horizontal
6	968.9289	31.26	-2.06	29.20	PK	54.00	24.80	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	31.9419	38.91	-18.41	20.50	PK	40.00	19.50	Vertical
2	49.4194	39.52	-17.25	22.27	PK	40.00	17.73	Vertical
3	68.8388	39.97	-19.80	20.17	PK	40.00	19.83	Vertical
4	72.7227	40.47	-20.38	20.09	PK	40.00	19.91	Vertical
5	713.5636	31.26	-5.83	25.43	PK	46.00	20.57	Vertical
6	828.1381	31.78	-4.15	27.63	PK	46.00	18.37	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	49.4194	31.79	-17.25	14.54	PK	40.00	25.46	Horizontal
2	494.1241	30.97	-9.78	21.19	PK	46.00	24.81	Horizontal
3	594.1341	31.39	-7.14	24.25	PK	46.00	21.75	Horizontal
4	653.3634	31.44	-6.19	25.25	PK	46.00	20.75	Horizontal
5	830.0801	32.03	-4.12	27.91	PK	46.00	18.09	Horizontal
6	927.1772	31.72	-2.69	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

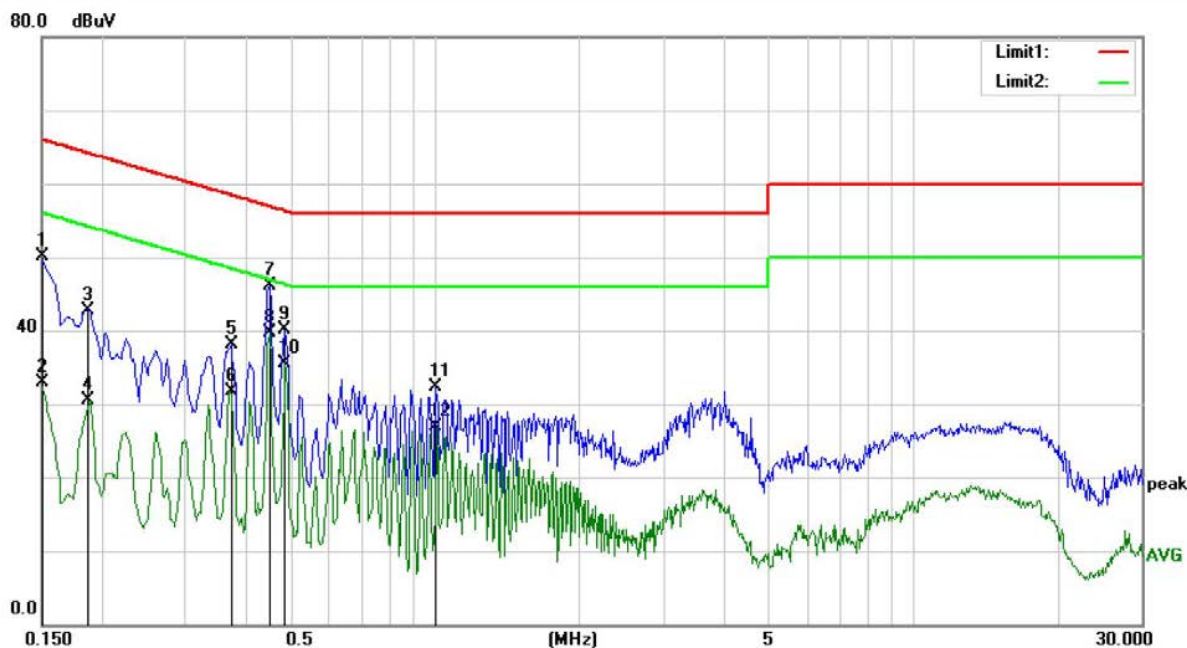
9.8.4 Test Procedure

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: **N**

Temperature: 20.8

Limit: (CE)FCC PART 15 class B_QP

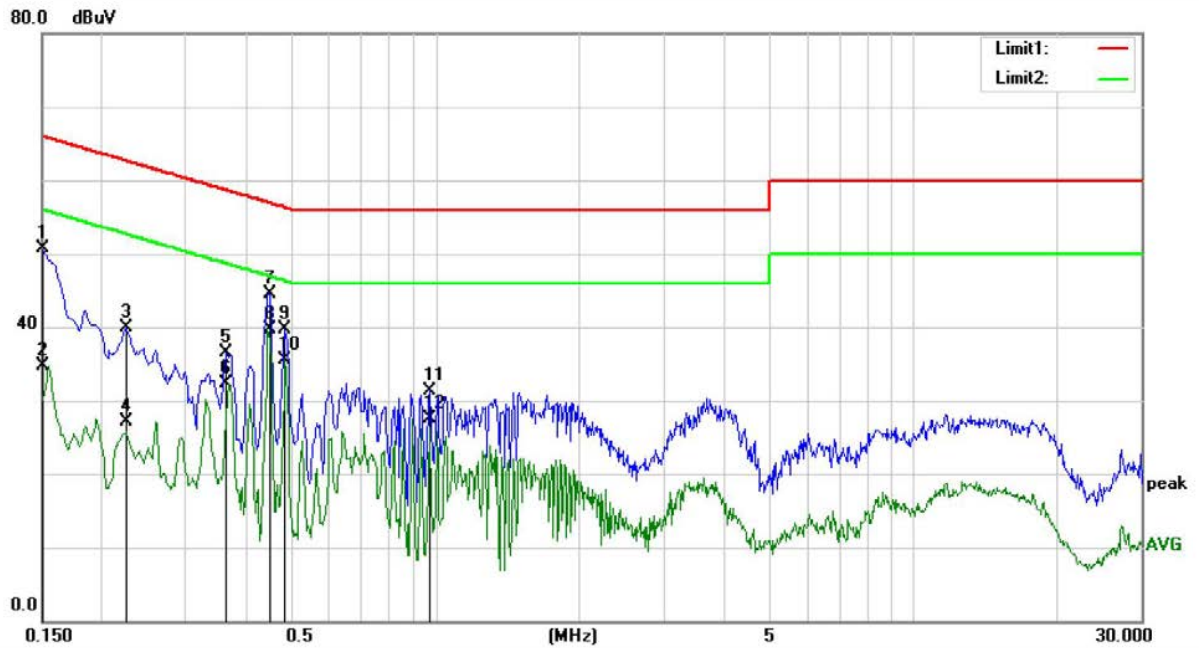
Power: AC 120V/60Hz

Humidity: 61 %

Mode: BT

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	40.69	9.51	50.20	66.00	-15.80	QP	
2		0.1500	23.47	9.51	32.98	56.00	-23.02	AVG	
3		0.1872	32.71	9.95	42.66	64.16	-21.50	QP	
4		0.1872	20.57	9.95	30.52	54.16	-23.64	AVG	
5		0.3730	28.15	9.88	38.03	58.43	-20.40	QP	
6		0.3730	21.90	9.88	31.78	48.43	-16.65	AVG	
7		0.4490	36.41	9.75	46.16	56.89	-10.73	QP	
8	*	0.4490	29.88	9.75	39.63	46.89	-7.26	AVG	
9		0.4837	30.33	9.69	40.02	56.28	-16.26	QP	
10		0.4837	25.83	9.69	35.52	46.28	-10.76	AVG	
11		0.9996	22.43	9.85	32.28	56.00	-23.72	QP	
12		0.9996	17.06	9.85	26.91	46.00	-19.09	AVG	



Site Conduction #1

Phase: **L1**

Temperature: 20.8

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

Humidity: 61 %

Mode: BT

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	41.21	9.51	50.72	66.00	-15.28	QP	
2		0.1500	25.13	9.51	34.64	56.00	-21.36	AVG	
3		0.2242	29.86	10.08	39.94	62.66	-22.72	QP	
4		0.2242	17.12	10.08	27.20	52.66	-25.46	AVG	
5		0.3633	26.61	9.90	36.51	58.65	-22.14	QP	
6		0.3633	22.41	9.90	32.31	48.65	-16.34	AVG	
7		0.4490	34.85	9.75	44.60	56.89	-12.29	QP	
8	*	0.4490	29.90	9.75	39.65	46.89	-7.24	AVG	
9		0.4837	30.04	9.69	39.73	56.28	-16.55	QP	
10		0.4837	25.89	9.69	35.58	46.28	-10.70	AVG	
11		0.9735	21.57	9.83	31.40	56.00	-24.60	QP	
12		0.9735	17.64	9.83	27.47	46.00	-18.53	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 ***