

Site Conduction #1

Phase: **L1**

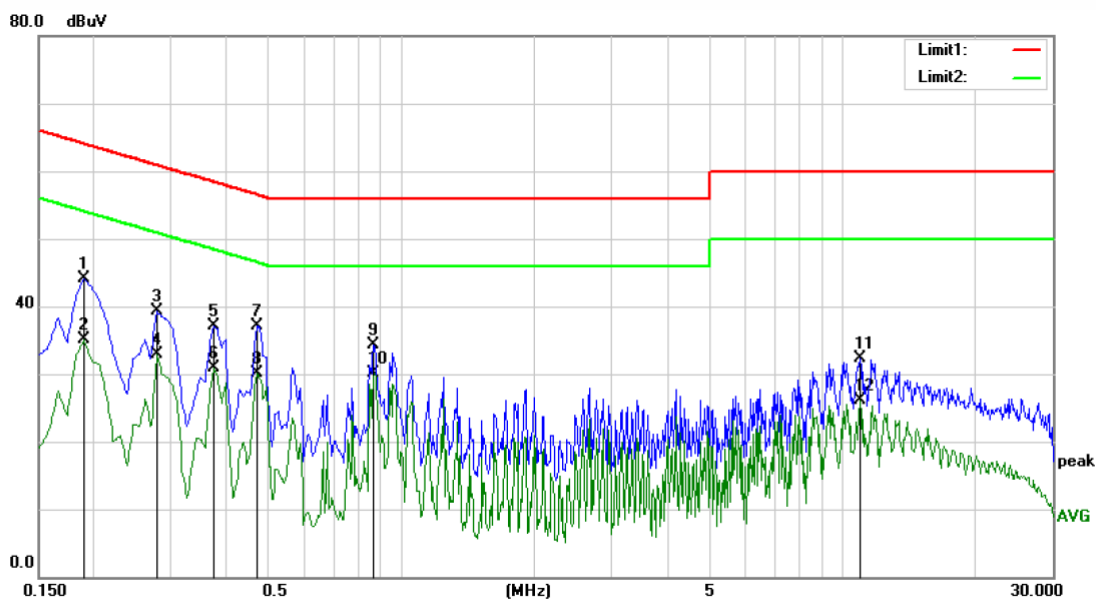
Temperature: 24.5

Limit: (CE)FCC PART 15 class B\_QP

Power: AC 120V/60Hz

Humidity: 52 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1900	36.20	9.70	45.90	64.04	-18.14	QP	
2		0.1900	28.02	9.70	37.72	54.04	-16.32	AVG	
3		0.2860	30.09	9.70	39.79	60.64	-20.85	QP	
4		0.2860	23.49	9.70	33.19	50.64	-17.45	AVG	
5		0.3820	27.89	9.70	37.59	58.24	-20.65	QP	
6		0.3820	20.78	9.70	30.48	48.24	-17.76	AVG	
7		0.4700	26.72	9.71	36.43	56.51	-20.08	QP	
8	*	0.4700	20.94	9.71	30.65	46.51	-15.86	AVG	
9		0.8620	22.59	9.71	32.30	56.00	-23.70	QP	
10		0.8620	19.55	9.71	29.26	46.00	-16.74	AVG	
11		10.9820	21.98	9.94	31.92	60.00	-28.08	QP	
12		10.9820	14.46	9.94	24.40	50.00	-25.60	AVG	



Site Conduction #1

Phase: **N**

Temperature: 24.5

Limit: (CE)FCC PART 15 class B\_QP

Power: AC 120V/60Hz

Humidity: 52 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1900	34.46	9.73	44.19	64.04	-19.85	QP	
2		0.1900	25.36	9.73	35.09	54.04	-18.95	AVG	
3		0.2780	29.53	9.72	39.25	60.88	-21.63	QP	
4		0.2780	23.23	9.72	32.95	50.88	-17.93	AVG	
5		0.3740	27.33	9.72	37.05	58.41	-21.36	QP	
6		0.3740	21.28	9.72	31.00	48.41	-17.41	AVG	
7		0.4700	27.45	9.72	37.17	56.51	-19.34	QP	
8		0.4700	20.36	9.72	30.08	46.51	-16.43	AVG	
9		0.8620	24.68	9.70	34.38	56.00	-21.62	QP	
10	*	0.8620	20.31	9.70	30.01	46.00	-15.99	AVG	
11		10.9660	22.39	9.94	32.33	60.00	-27.67	QP	
12		10.9660	16.14	9.94	26.08	50.00	-23.92	AVG	

## 9.9 ANTENNA APPLICATION

### 9.9.1 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.

### 9.9.2 Result

**PASS**

- ☒ 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)

Note: Please refer to the attached document Internal Photos to show the antenna connector.

## 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 ---

## 10 APPENDIX PHOTOGRAPHS OF EUT

Please refer to the file of External Photo and Internal Photo.



## 11 APPENDIX PHOTOGRAPHS OF TEST SETUP

Please refer to the file of Test Setup Photo.

