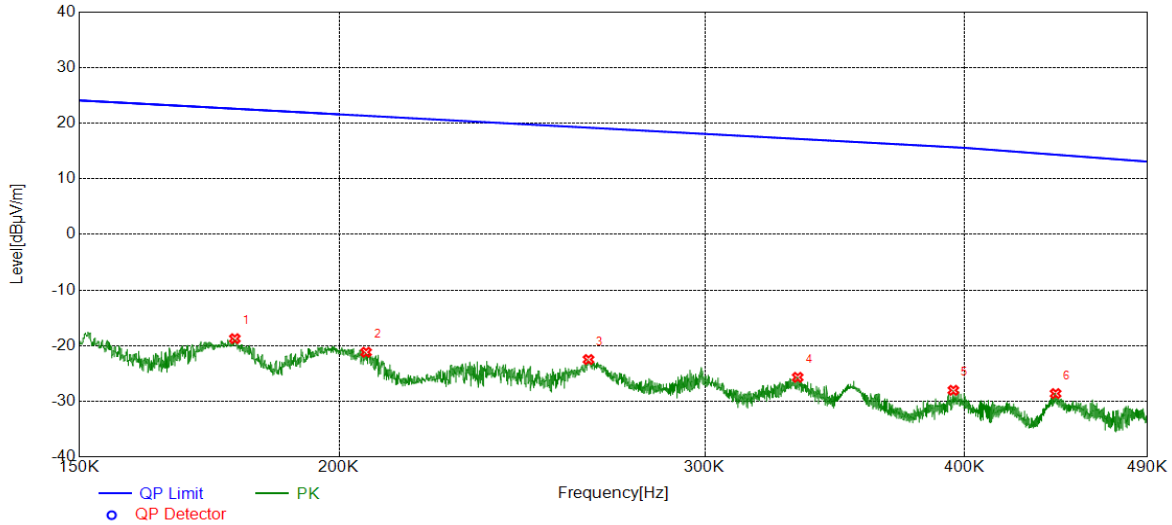




Test Mode	Channel	Frequency Range	Verdict
11G	LCH	150KHz~490KHz	PASS



No.	Frequency	Reading Level	Correct Factor	FCC Result	FCC Limit	ISED Result	ISED Result	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1782	42.57	-61.31	-18.74	22.59	-70.24	-28.91	-41.33	peak
2	0.2061	39.99	-61.17	-21.18	21.32	-72.68	-30.18	-42.50	peak
3	0.2637	38.44	-60.93	-22.49	19.18	-73.99	-32.32	-41.67	peak
4	0.3325	35.18	-60.87	-25.69	17.17	-77.19	-34.33	-42.86	peak
5	0.3951	32.80	-60.82	-28.02	15.67	-79.52	-35.83	-43.69	peak
6	0.4425	32.17	-60.78	-28.61	14.33	-80.11	-37.17	-42.94	peak

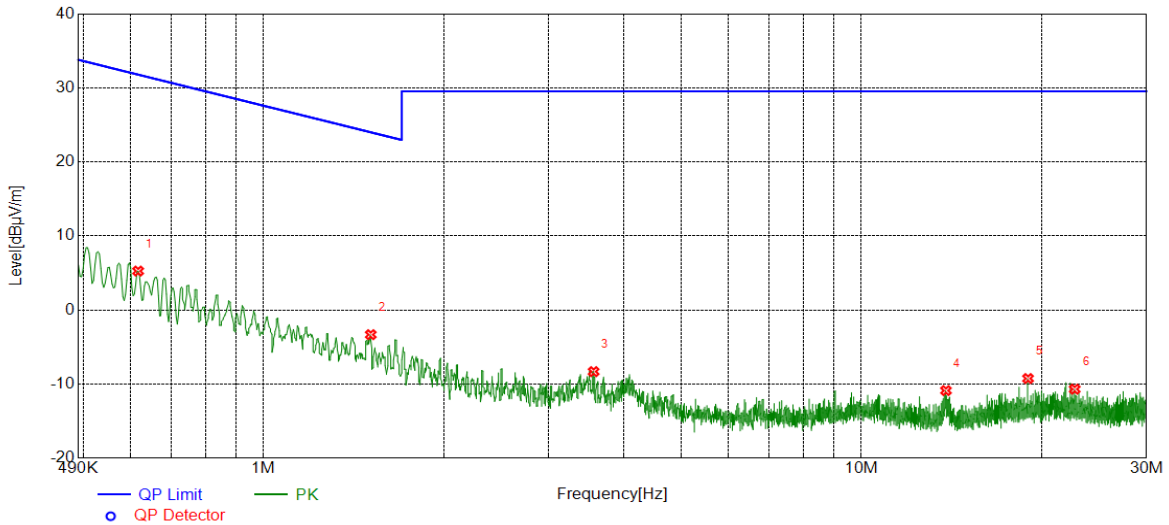
Note: 1. Measurement = Reading Level + Correct Factor(dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5).

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report



Test Mode	Channel	Frequency Range	Verdict
11G	LCH	490KHz~30MHz	PASS



No.	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Result (dBuA/m)	Margin (dB)	Remark
1	0.6169	26.02	-20.76	5.26	31.80	-46.24	-19.70	-26.54	peak
2	1.5111	17.08	-20.41	-3.33	24.02	-54.83	-27.48	-27.35	peak
3	3.5653	12.03	-20.35	-8.32	29.54	-59.82	-21.96	-37.86	peak
4	13.8505	8.43	-19.31	-10.88	29.54	-62.38	-21.96	-40.42	peak
5	19.0005	8.58	-17.83	-9.25	29.54	-60.75	-21.96	-38.79	peak
6	22.7428	7.14	-17.83	-10.69	29.54	-62.19	-21.96	-40.23	peak

- Note: 1. Measurement = Reading Level + Correct Factor(dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5).  
 2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.  
 3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report

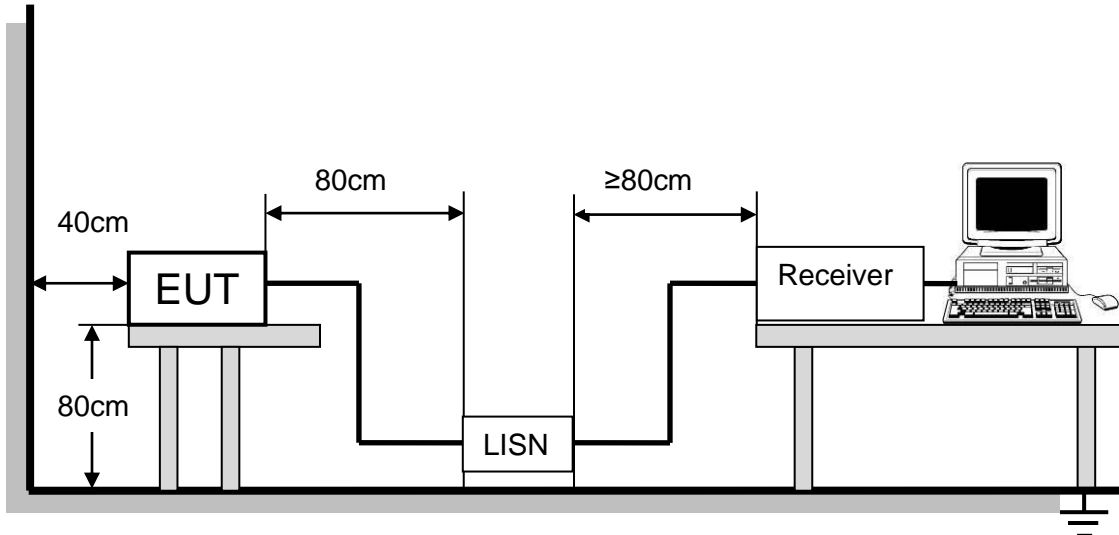
## 7.7. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

Please refer to FCC §15.207 (a) & RSS-GEN Clause 8.8

FREQUENCY (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

### TEST SETUP AND PROCEDURE



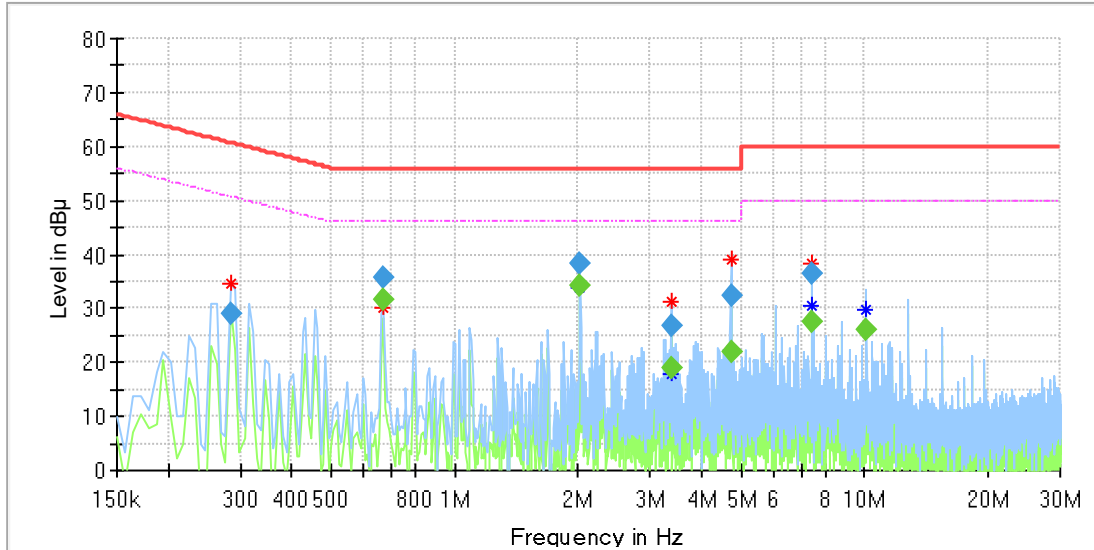
The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.



**TEST RESULTS (WORST CASE CONFIGURATION)**

**For L Line:**



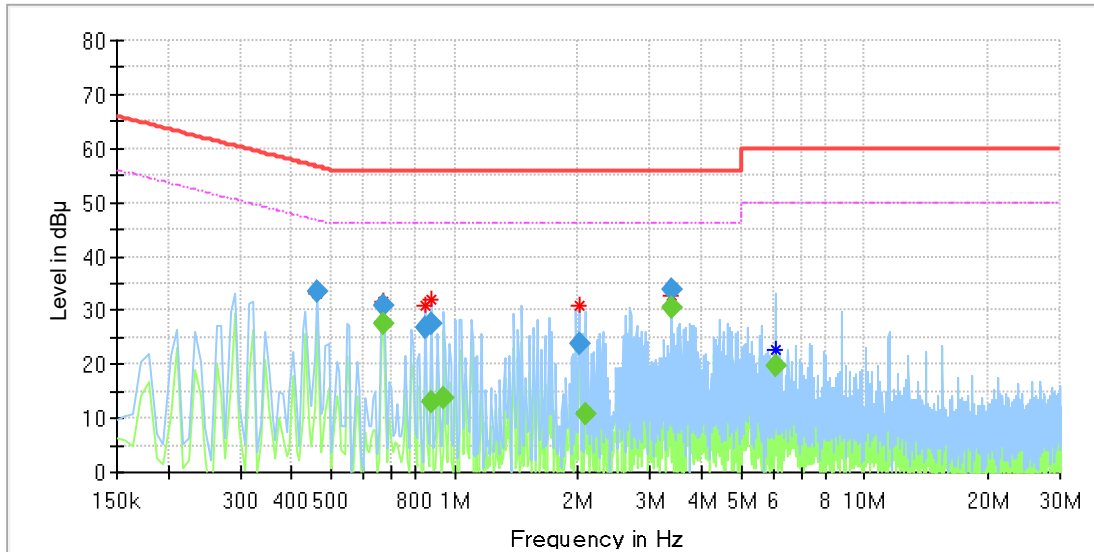
**Final Result**

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.284325	29.18	---	60.69	31.51	1000.0	9.000	L1	OFF	9.6
0.672375	---	31.81	46.00	14.19	1000.0	9.000	L1	OFF	9.6
0.672375	35.60	---	56.00	20.40	1000.0	9.000	L1	OFF	9.6
2.023088	---	34.27	46.00	11.73	1000.0	9.000	L1	OFF	9.7
2.023088	38.15	---	56.00	17.85	1000.0	9.000	L1	OFF	9.7
3.366338	---	18.95	46.00	27.05	1000.0	9.000	L1	OFF	9.8
3.366338	26.62	---	56.00	29.38	1000.0	9.000	L1	OFF	9.8
4.717050	---	21.99	46.00	24.01	1000.0	9.000	L1	OFF	9.5
4.717050	32.25	---	56.00	23.75	1000.0	9.000	L1	OFF	9.5
7.418475	---	27.68	50.00	22.32	1000.0	9.000	L1	OFF	9.8
7.418475	36.47	---	60.00	23.53	1000.0	9.000	L1	OFF	9.8
10.119900	---	26.11	50.00	23.89	1000.0	9.000	L1	OFF	9.6

- Note: 1. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 2. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).  
 3. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.  
 4. The extension cord/outlet strip was calibrated with the LISN as required by ANSI C63.10:2013 Clause 6.2.2.  
 5. Pre-testing all test modes and channels, and find the LCH of 11G which is the worst case, so only the worst case is included in this test report.



**For N Line:**



**Final\_Result**

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.463425	33.60	---	56.63	23.03	1000.0	9.000	N	OFF	9.6
0.672375	---	27.66	46.00	18.34	1000.0	9.000	N	OFF	9.5
0.672375	30.80	---	56.00	25.20	1000.0	9.000	N	OFF	9.5
0.851475	26.87	---	56.00	29.13	1000.0	9.000	N	OFF	9.6
0.881325	---	13.01	46.00	32.99	1000.0	9.000	N	OFF	9.7
0.881325	27.69	---	56.00	28.31	1000.0	9.000	N	OFF	9.7
0.941025	---	13.79	46.00	32.21	1000.0	9.000	N	OFF	9.7
2.015625	23.87	---	56.00	32.13	1000.0	9.000	N	OFF	9.7
2.082788	---	10.78	46.00	35.22	1000.0	9.000	N	OFF	9.7
3.373800	---	30.41	46.00	15.59	1000.0	9.000	N	OFF	9.7
3.373800	33.97	---	56.00	22.03	1000.0	9.000	N	OFF	9.7
6.067763	---	19.78	50.00	30.22	1000.0	9.000	N	OFF	9.8

- Note: 1. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 2. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).  
 3. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.  
 4. The extension cord/outlet strip was calibrated with the LISN as required by ANSI C63.10:2013 Clause 6.2.2.  
 5. Pre-testing all test modes and channels, and find the LCH of 11G which is the worst case, so only the worst case is included in this test report.



## **8. ANTENNA REQUIREMENTS**

### **APPLICABLE REQUIREMENTS**

Please refer to FCC §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.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **ANTENNA CONNECTOR**

EUT has a EUT with one Meandered printed inverted-F antenna.

### **ANTENNA GAIN**

The antenna gain of EUT is less than 6 dBi.

**END OF REPORT**