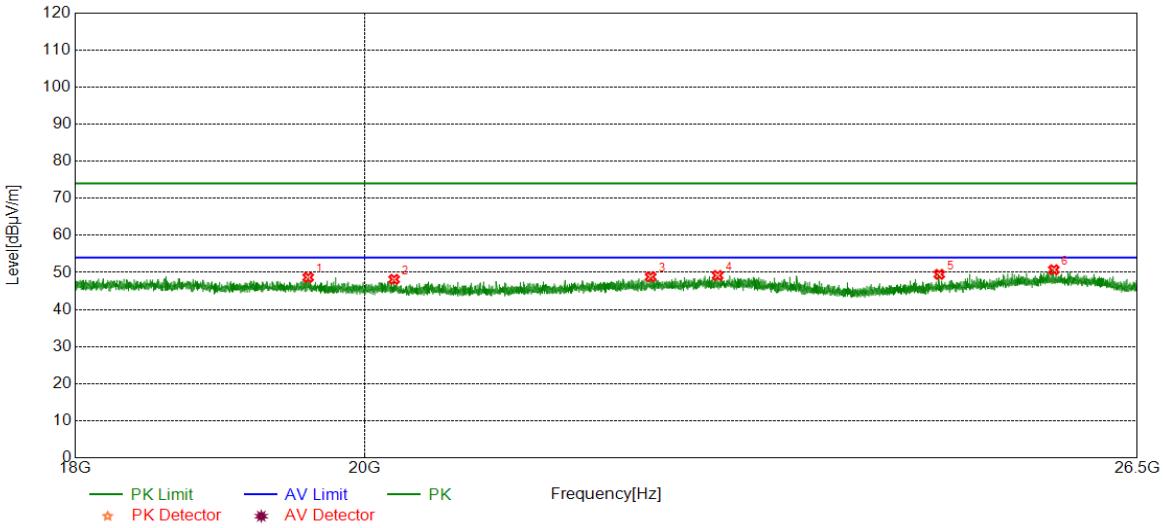
Test Mode	Channel	Polarization	Verdict
11B	HCH	Vertical	PASS



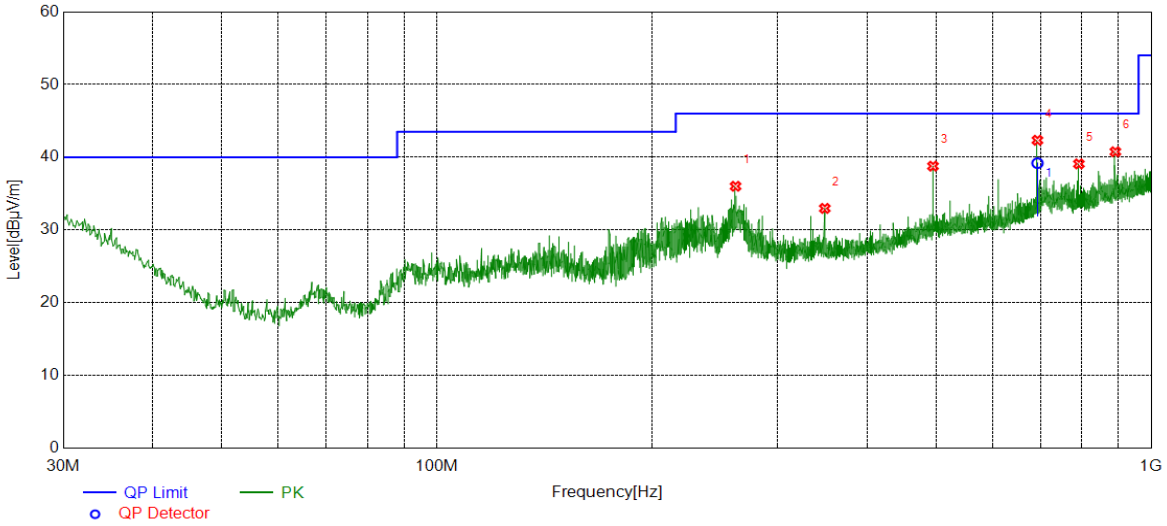
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	19593.0593	49.37	-0.70	48.67	74.00	25.33	peak
2	20216.1716	48.76	-0.61	48.15	74.00	25.85	peak
3	22196.8697	48.42	0.41	48.83	74.00	25.17	peak
4	22745.1745	48.17	1.03	49.20	74.00	24.80	peak
5	24657.8658	49.86	-0.36	49.50	74.00	24.50	peak
6	25708.5709	49.53	1.20	50.73	74.00	23.27	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Part IV: 30MHz~1GHz

SPURIOUS EMISSIONS 30M TO 1GHHz (WORST-CASE CONFIGURATION)

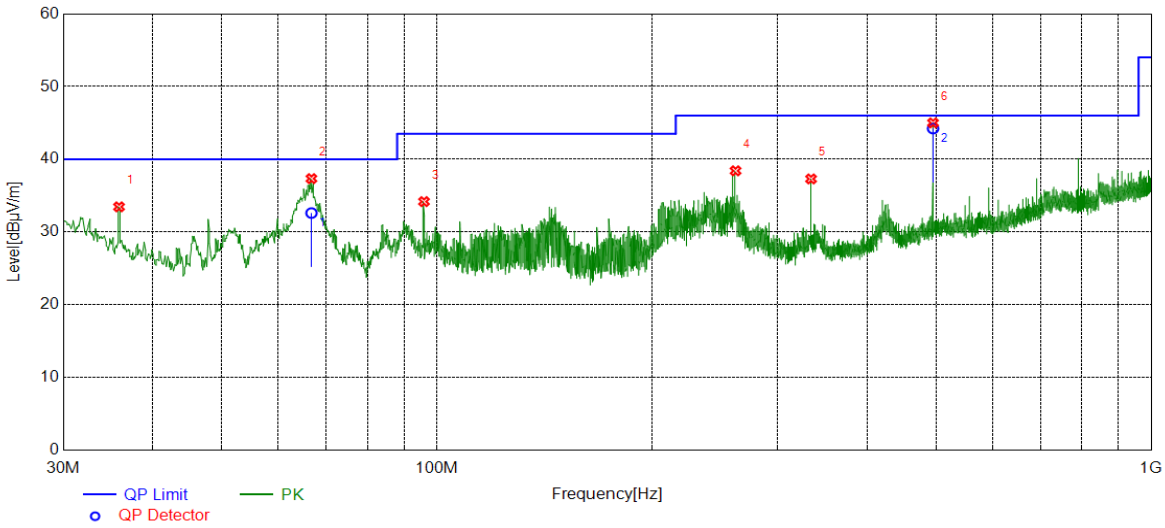
Test Mode	Channel	Polarization	Verdict
11B	HCH	Horizontal	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	261.9502	16.45	19.56	36.01	46.00	9.99	peak
2	349.2589	10.97	22.00	32.97	46.00	13.03	peak
3	494.9675	13.01	25.77	38.78	46.00	7.22	peak
4	693.0193	10.81	28.38	39.19	46.00	6.81	QP
5	792.1082	9.51	29.58	39.09	46.00	6.91	peak
6	891.0581	10.08	30.68	40.76	46.00	5.24	peak

Note: 1. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.

Test Mode	Channel	Polarization	Verdict
11B	HCH	Vertical	PASS



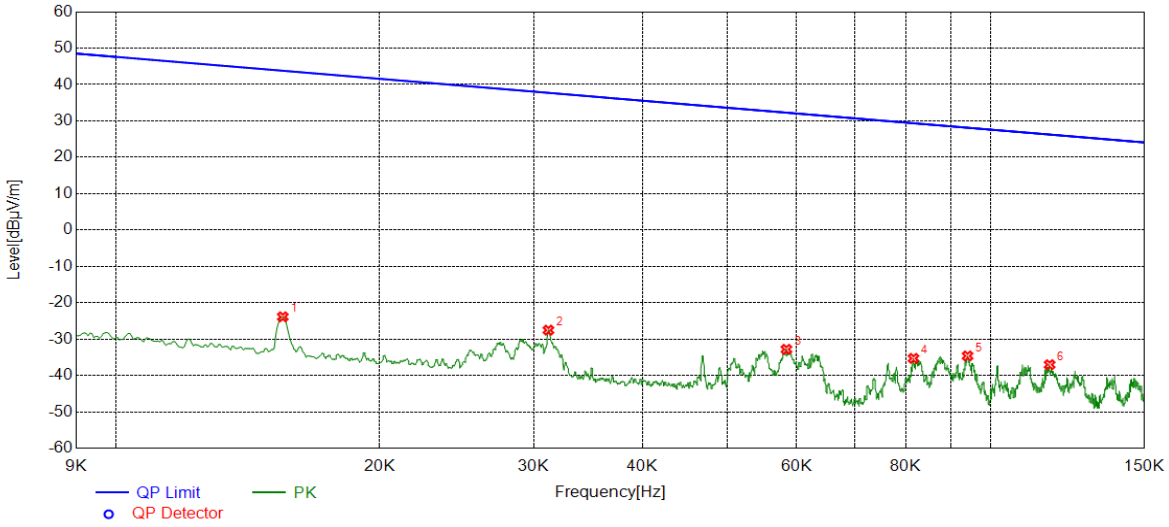
No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	35.9176	10.07	23.39	33.46	40.00	6.54	peak
2	66.7681	17.91	14.70	32.61	40.00	7.39	QP
3	95.9666	18.12	16.06	34.18	43.50	9.32	peak
4	261.9502	18.85	19.56	38.41	46.00	7.59	peak
5	334.1254	15.69	21.61	37.30	46.00	8.70	peak
6	495.0095	18.44	25.78	44.22	46.00	1.78	QP

Note: 1. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.
3. Measurement = Reading Level + Correct Factor.

Part V: 9KHz~30MHz

SPURIOUS EMISSIONS Below 30MHz (WORST CASE CONFIGURATION-FACE ON)

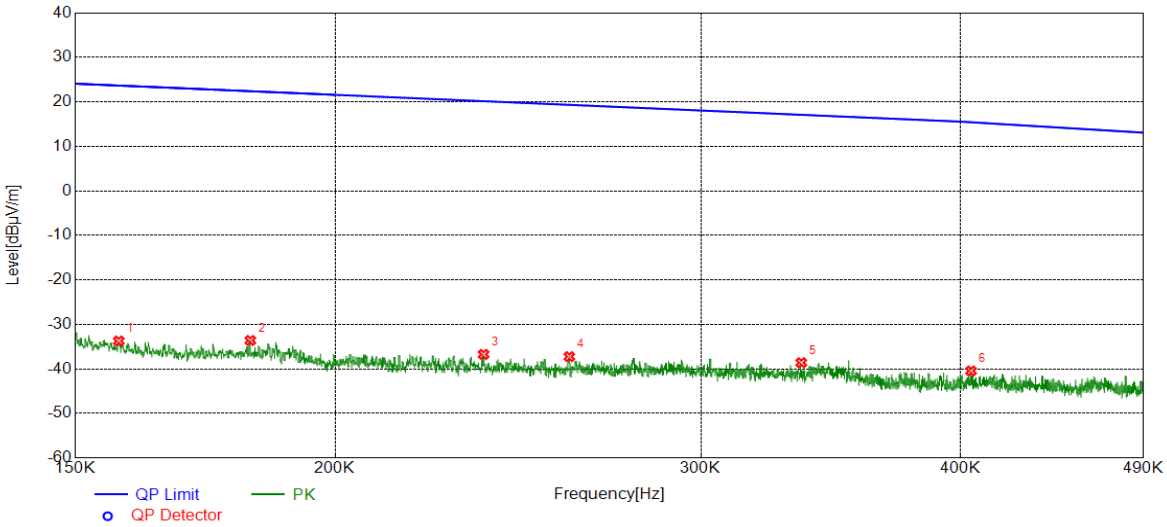
Test Mode	Channel	Frequency Range	Verdict
11B	HCH	9KHz~150KHz	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0155	37.01	-60.88	-23.87	43.80	67.67	peak
2	0.0312	33.27	-60.81	-27.54	37.71	65.25	peak
3	0.0584	28.25	-61.07	-32.82	32.28	65.10	peak
4	0.0816	25.85	-61.15	-35.30	29.36	64.66	peak
5	0.0941	26.17	-60.80	-34.63	28.13	62.76	peak
6	0.1168	23.80	-60.84	-37.04	26.26	63.30	peak

Note: 1. Measurement = Reading Level + Correct Factor.
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.

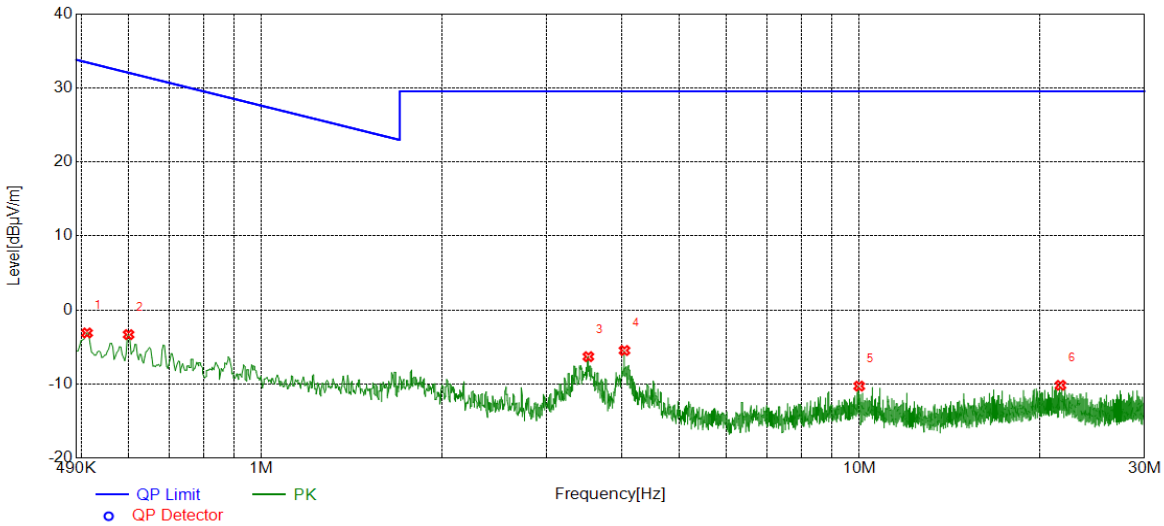
Test Mode	Channel	Frequency Range	Verdict
11B	HCH	150KHz~490KHz	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1574	27.48	-61.20	-33.72	23.66	57.38	peak
2	0.1821	27.47	-61.07	-33.60	22.40	56.00	peak
3	0.2358	24.06	-60.80	-36.74	20.15	56.89	peak
4	0.2593	23.48	-60.72	-37.24	19.33	56.57	peak
5	0.3353	22.05	-60.66	-38.61	17.09	55.70	peak
6	0.4047	20.15	-60.60	-40.45	15.42	55.87	peak

Note: 1. Measurement = Reading Level + Correct Factor.
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
11B	HCH	490KHz~30MHz	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.5107	17.42	-20.52	-3.10	33.44	36.54	peak
2	0.5992	17.24	-20.56	-3.32	32.05	35.37	peak
3	3.5210	13.90	-20.20	-6.30	29.54	35.84	peak
4	4.0463	14.53	-20.00	-5.47	29.54	35.01	peak
5	9.9932	8.50	-18.78	-10.28	29.54	39.82	peak
6	21.7010	7.29	-17.46	-10.17	29.54	39.71	peak

Note: 1. Measurement = Reading Level + Correct Factor.
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.

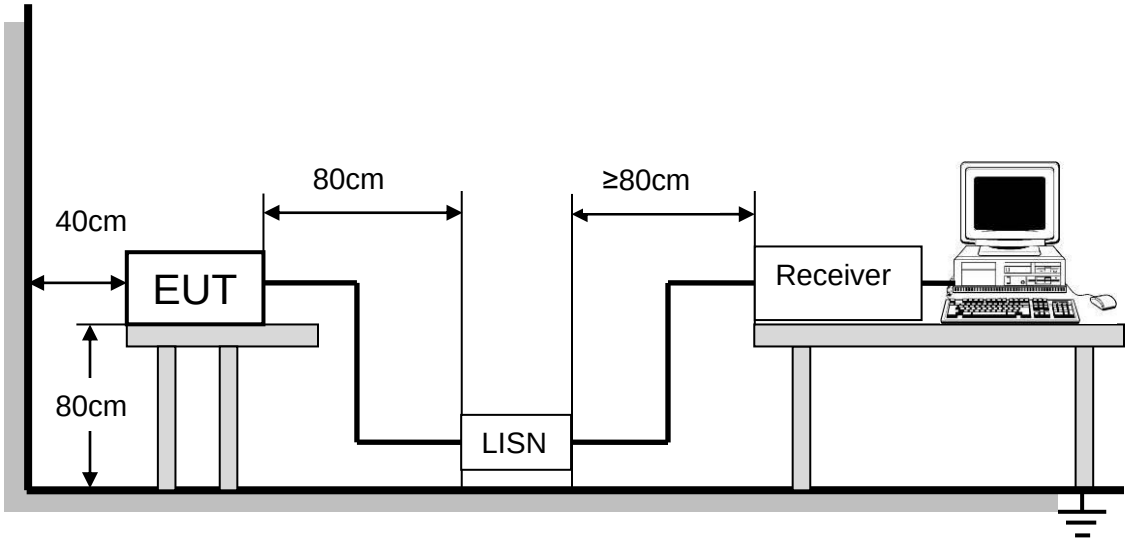
8. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

Please refer to FCC §15.207 (a)

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

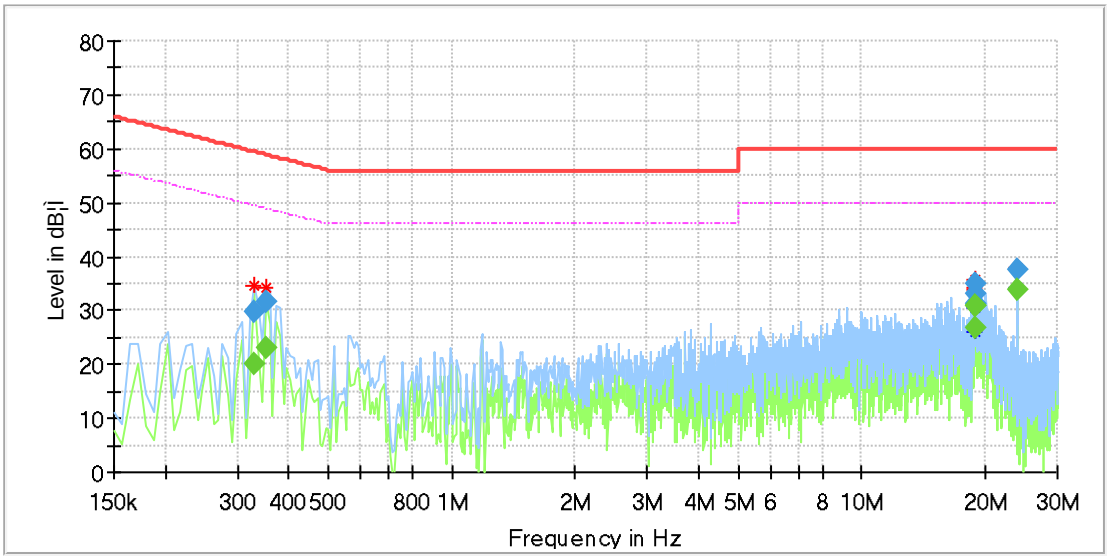
TEST SETUP AND PROCEDURE



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.

LINE L RESULTS (WORST-CASE CONFIGURATION)

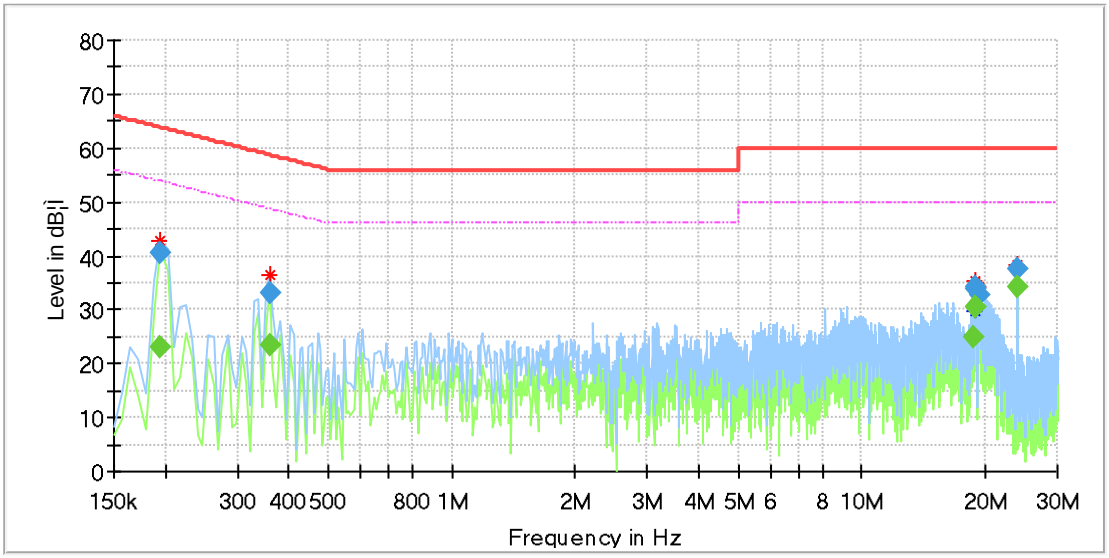


Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.329100	---	20.24	49.47	29.24	1000.0	9.000	L1	OFF	9.6
0.329100	29.87	---	59.47	29.61	1000.0	9.000	L1	OFF	9.6
0.351488	---	23.06	48.93	25.86	1000.0	9.000	L1	OFF	9.6
0.351488	31.64	---	58.93	27.29	1000.0	9.000	L1	OFF	9.6
18.843563	32.94	---	60.00	27.06	1000.0	9.000	L1	OFF	9.6
18.880875	---	30.80	50.00	19.20	1000.0	9.000	L1	OFF	9.6
18.880875	34.82	---	60.00	25.18	1000.0	9.000	L1	OFF	9.6
18.918188	---	31.03	50.00	18.97	1000.0	9.000	L1	OFF	9.6
18.948038	31.23	---	60.00	28.77	1000.0	9.000	L1	OFF	9.6
18.948038	---	26.71	50.00	23.29	1000.0	9.000	L1	OFF	9.6
24.000150	---	34.03	50.00	15.97	1000.0	9.000	L1	OFF	9.8
24.000150	37.56	---	60.00	22.44	1000.0	9.000	L1	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 MCH of 11B which is the worst case, so only the worst case is included in this test report.

LINE N RESULTS (WORST-CASE CONFIGURATION)



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.194775	---	23.06	53.83	30.77	1000.0	9.000	N	OFF	9.6
0.194775	40.54	---	63.83	23.30	1000.0	9.000	N	OFF	9.6
0.358950	---	23.48	48.75	25.27	1000.0	9.000	N	OFF	9.7
0.358950	33.26	---	58.75	25.50	1000.0	9.000	N	OFF	9.7
18.716700	---	25.12	50.00	24.88	1000.0	9.000	N	OFF	9.6
18.880875	34.14	---	60.00	25.86	1000.0	9.000	N	OFF	9.6
18.880875	---	30.67	50.00	19.33	1000.0	9.000	N	OFF	9.6
19.000275	---	30.43	50.00	19.57	1000.0	9.000	N	OFF	9.6
19.000275	33.98	---	60.00	26.02	1000.0	9.000	N	OFF	9.6
19.358475	32.78	---	60.00	27.22	1000.0	9.000	N	OFF	9.6
24.000150	---	34.12	50.00	15.88	1000.0	9.000	N	OFF	9.8
24.000150	37.67	---	60.00	22.33	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 MCH of 11B which is the worst case, so only the worst case is included in this test report.

9. 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 GAIN

The antenna gain of EUT is less than 6 dBi

END OF REPORT