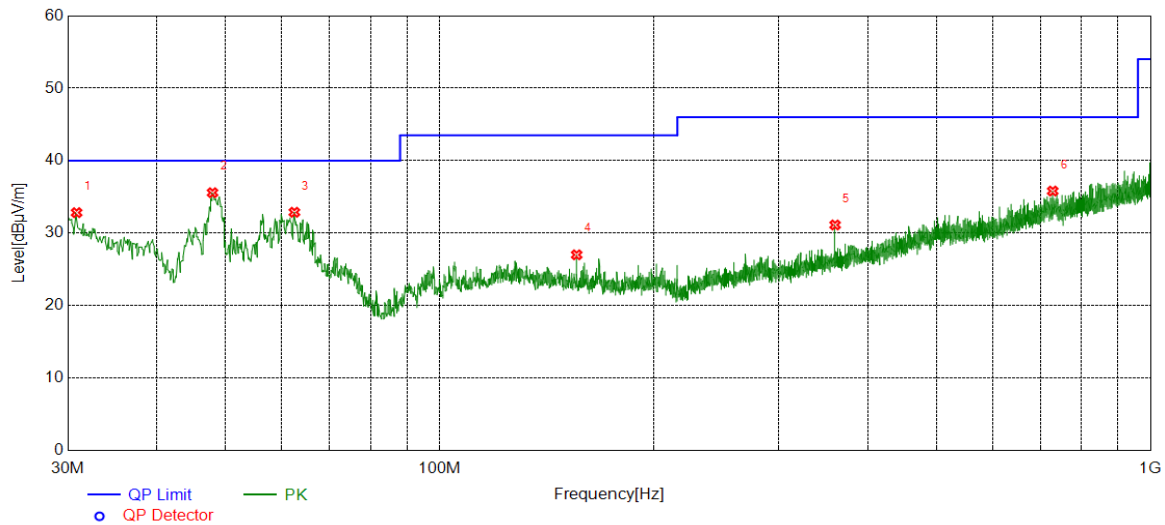




Test Mode	Channel	Polarization	Verdict
11N HT40	HCH	Vertical	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.8731	6.34	26.49	32.83	40.00	-7.17	peak
2	47.9468	19.77	15.81	35.58	40.00	-4.42	peak
3	62.4983	18.65	14.23	32.88	40.00	-7.12	peak
4	155.9186	7.98	19.03	27.01	43.50	-16.49	peak
5	360.0270	9.17	21.96	31.13	46.00	-14.87	peak
6	728.4698	6.90	28.91	35.81	46.00	-10.19	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.

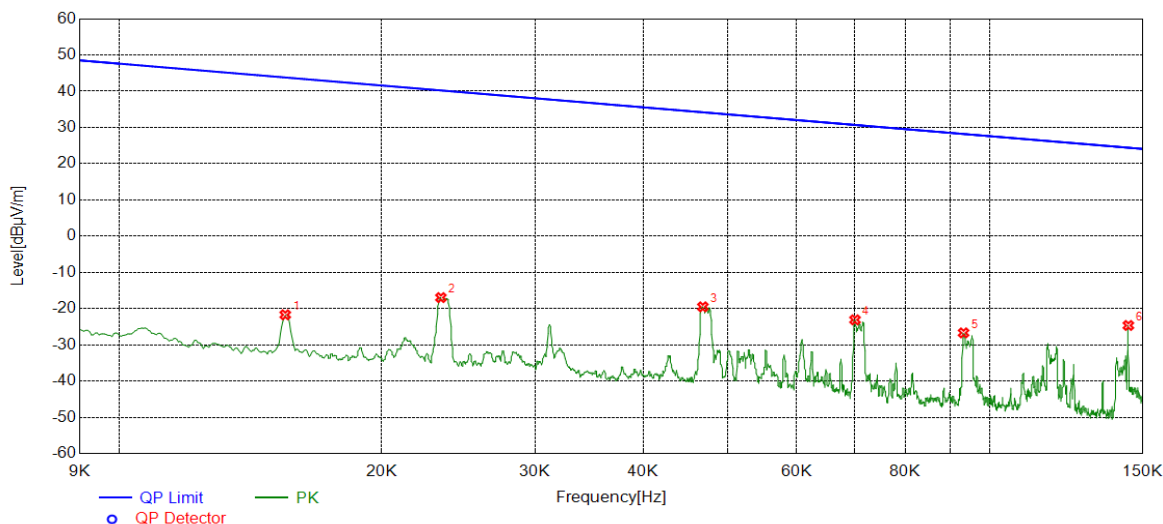
3. Measurement = Reading Level + Correct Factor.



Part V: 9KHz~30MHz

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

Test Mode	Channel	Frequency Range	Verdict
11N HT40	HCH	9KHz~150KHz	PASS

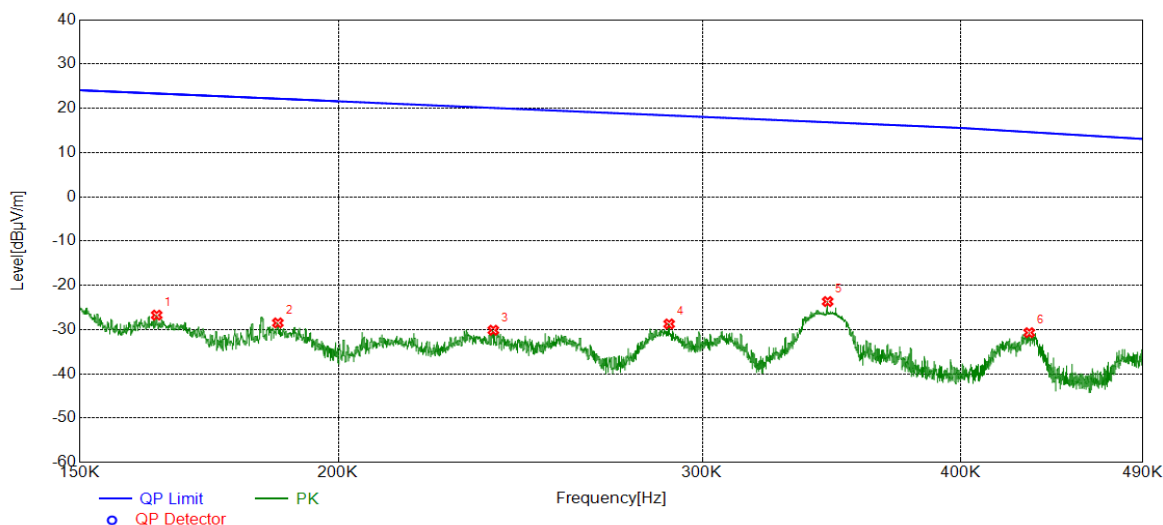


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0155	39.27	-60.98	-21.71	43.77	-65.48	peak
2	0.0234	43.91	-60.87	-16.96	40.22	-57.18	peak
3	0.0468	41.51	-61.02	-19.51	34.20	-53.71	peak
4	0.0700	38.25	-61.35	-23.10	30.70	-53.80	peak
5	0.0933	34.21	-60.91	-26.70	28.20	-54.90	peak
6	0.1443	36.60	-61.25	-24.65	24.42	-49.07	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. Result 300m= Result 3m-80 dBuV/m
3. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
4. 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
11N HT40	HCH	150KHz~490Hz	PASS

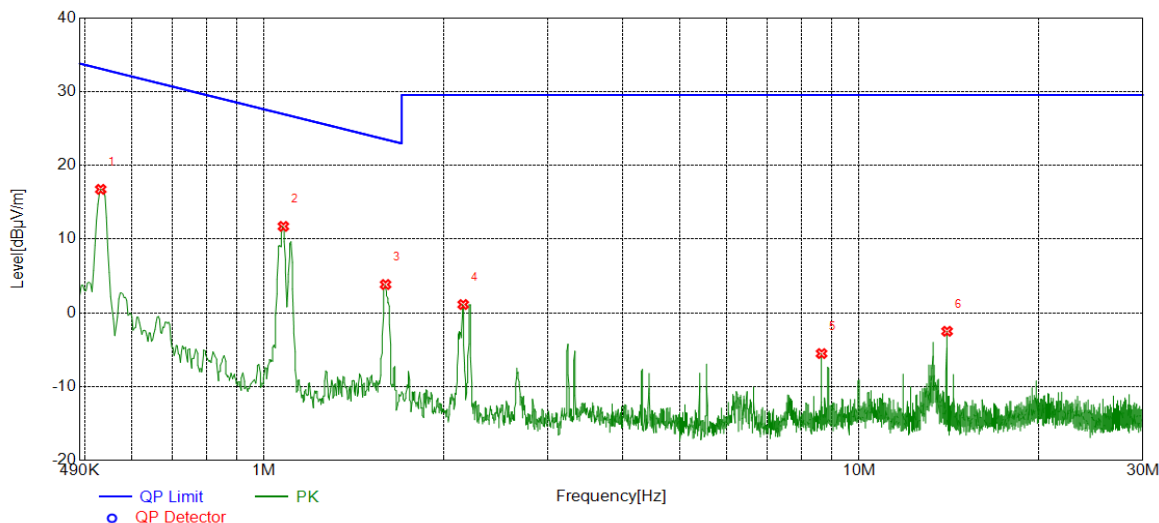


No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1634	34.52	-61.25	-26.73	23.34	-50.07	peak
2	0.1870	32.64	-61.13	-28.49	22.17	-50.66	peak
3	0.2377	30.73	-60.87	-30.14	20.08	-50.22	peak
4	0.2891	32.05	-60.77	-28.72	18.38	-47.10	peak
5	0.3449	37.06	-60.72	-23.66	16.85	-40.51	peak
6	0.4317	29.95	-60.65	-30.70	14.63	-45.33	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. Result 300m= Result 3m-80 dBuV/m
3. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
4. 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
11N HT40	HCH	490KHz~30MHz	PASS



No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.5313	37.34	-20.60	16.74	33.10	-16.36	peak
2	1.0773	32.07	-20.35	11.72	26.96	-15.24	peak
3	1.5997	24.11	-20.27	3.84	23.52	-19.68	peak
4	2.1604	21.38	-20.25	1.13	29.54	-28.41	peak
5	8.6474	13.67	-19.19	-5.52	29.54	-35.06	peak
6	14.0542	16.70	-19.20	-2.50	29.54	-32.04	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. Result 30m= Result 3m-40 dBuV/m
3. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
4. 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

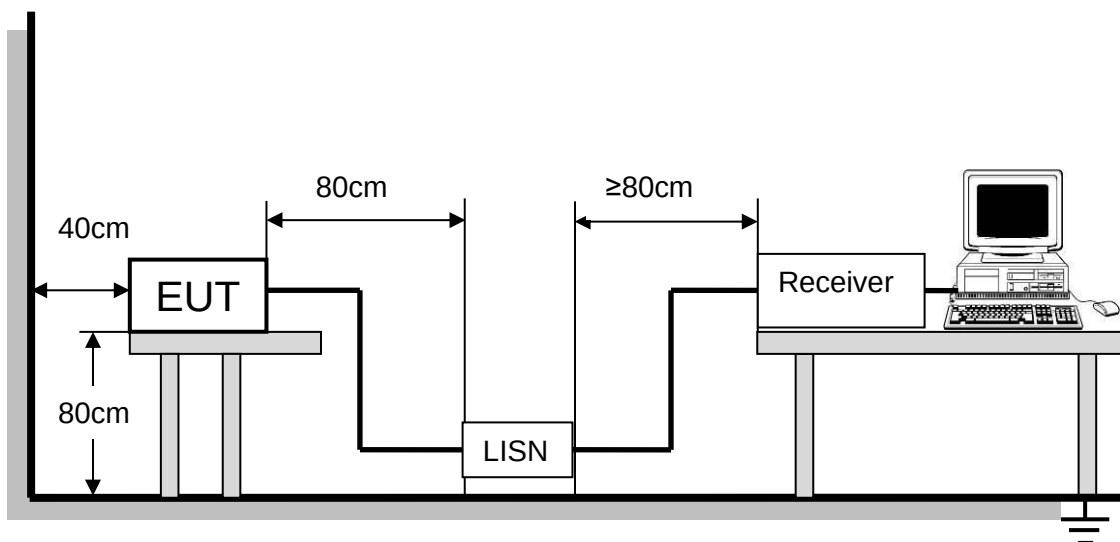
8. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

Please refer to FCC §15.207 (a), ISED 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

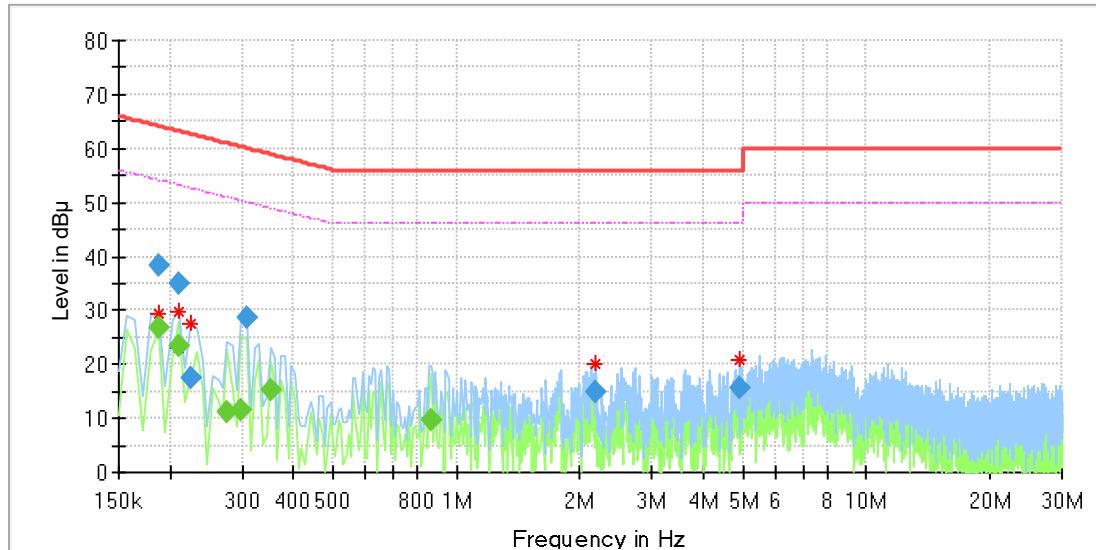


The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) 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:



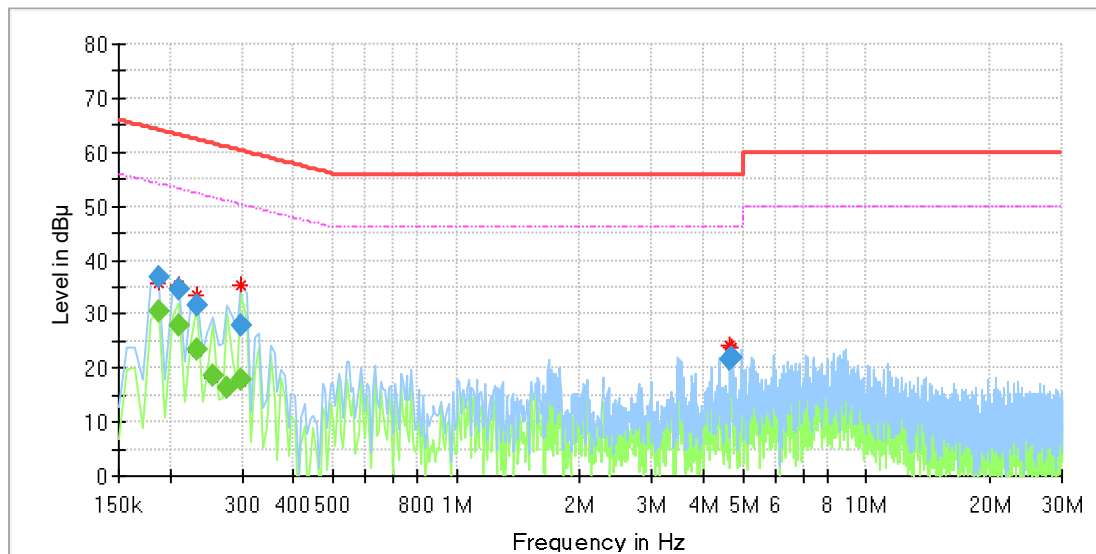
Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.187313	---	26.83	54.16	27.33	1000.0	9.000	N	OFF	9.5
0.187313	38.33	---	64.16	25.82	1000.0	9.000	N	OFF	9.5
0.209700	---	23.40	53.22	29.81	1000.0	9.000	N	OFF	9.6
0.209700	34.99	---	63.22	28.23	1000.0	9.000	N	OFF	9.6
0.224625	17.31	---	62.65	45.34	1000.0	9.000	N	OFF	9.6
0.276863	---	11.11	50.91	39.80	1000.0	9.000	N	OFF	9.6
0.299250	---	11.40	50.26	38.87	1000.0	9.000	N	OFF	9.6
0.306713	28.70	---	60.06	31.36	1000.0	9.000	N	OFF	9.6
0.351488	---	15.15	48.93	33.78	1000.0	9.000	N	OFF	9.7
0.866400	---	9.76	46.00	36.24	1000.0	9.000	N	OFF	9.6
2.179800	15.02	---	56.00	40.98	1000.0	9.000	N	OFF	9.6
4.911075	15.64	---	56.00	40.36	1000.0	9.000	N	OFF	9.7

- 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 HCH of 11N40 MIMO mode 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)
0.187313	---	30.36	54.16	23.80	1000.0	9.000	L1	OFF	9.6
0.187313	36.85	---	64.16	27.30	1000.0	9.000	L1	OFF	9.6
0.209700	---	27.90	53.22	25.32	1000.0	9.000	L1	OFF	9.7
0.209700	34.66	---	63.22	28.55	1000.0	9.000	L1	OFF	9.7
0.232088	---	23.33	52.38	29.04	1000.0	9.000	L1	OFF	9.6
0.232088	31.74	---	62.38	30.64	1000.0	9.000	L1	OFF	9.6
0.254475	---	18.68	51.61	32.93	1000.0	9.000	L1	OFF	9.5
0.276863	---	16.51	50.91	34.40	1000.0	9.000	L1	OFF	9.5
0.299250	28.02	---	60.26	32.25	1000.0	9.000	L1	OFF	9.6
0.299250	---	17.79	50.26	32.47	1000.0	9.000	L1	OFF	9.6
4.657350	21.60	---	56.00	34.40	1000.0	9.000	L1	OFF	9.5
4.679738	22.00	---	56.00	34.00	1000.0	9.000	L1	OFF	9.5

- 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 HCH of 11N40 MIMO 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 CONNECTOR

EUT has a EUT with two Internal antenna.

ANTENNA GAIN

The antenna gain of EUT is less than 6 dBi

END OF REPORT