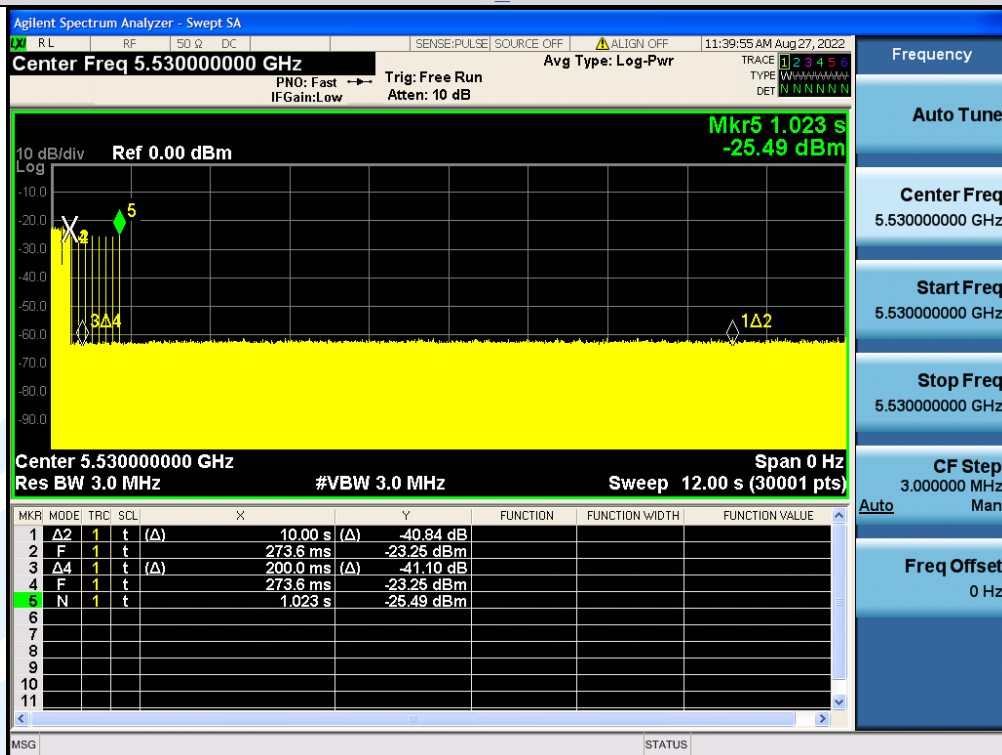


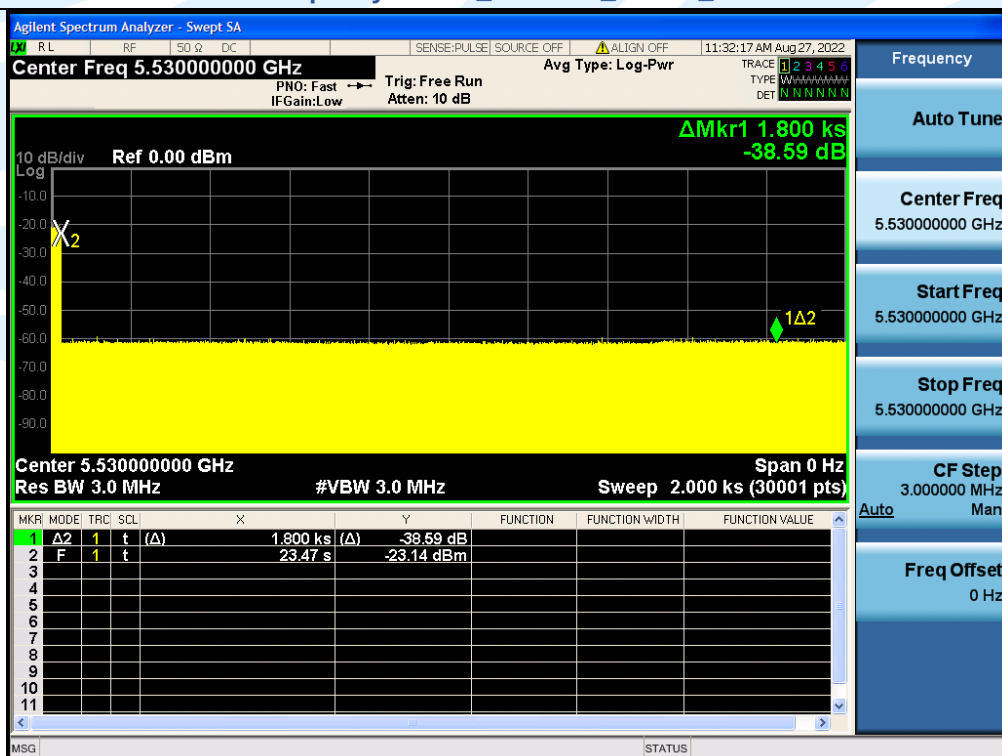
Channel Move Time & Channel Closing Transmission Time 802.11ac_5530 MHz



Note:

- 10) Mark1 Time: 273.6 ms, Mark2 Time: 10273.6 ms, Ontime Points: 13
- 11) Dwell = S/B = 12000ms/30000 = 0.4 ms, C = N x Dwell = 13 x 0.4 = 5.2ms
- 12) CMT = 1.023 s - 0.2736 s = 0.7494s

Non-Occupancy Period_802.11ac_CH106_5530 MHz



5.9 AC POWER LINE CONDUCTED EMISSION

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.207

Test Method: ANSI C63.10-2013 Section 6.2

Limits:

Frequency range (MHz)	Limits (dB(μV))	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

Remark:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

Test Setup: Refer to section 4.4.2 for details.

Test Procedures:

Test frequency range :150KHz-30MHz

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Equipment Used: Refer to section 3 for details.

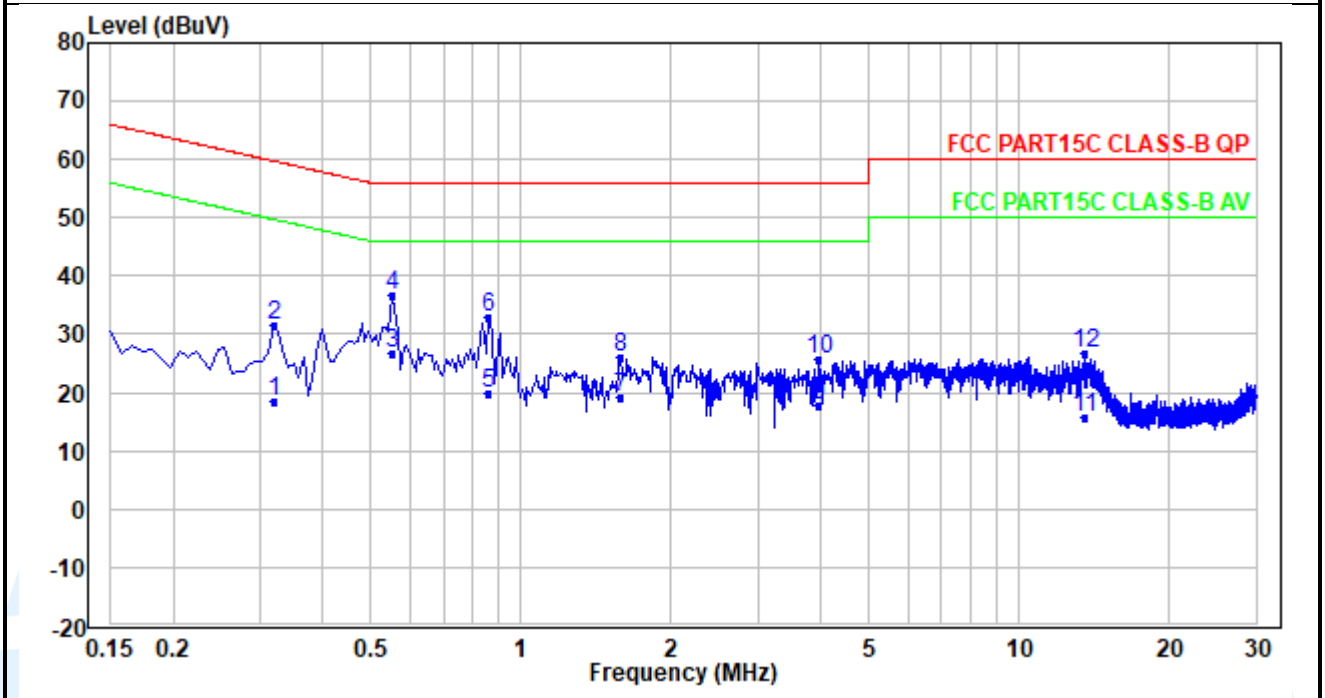
Test Result: Pass

The measurement data as follows:

Quasi Peak and Average:

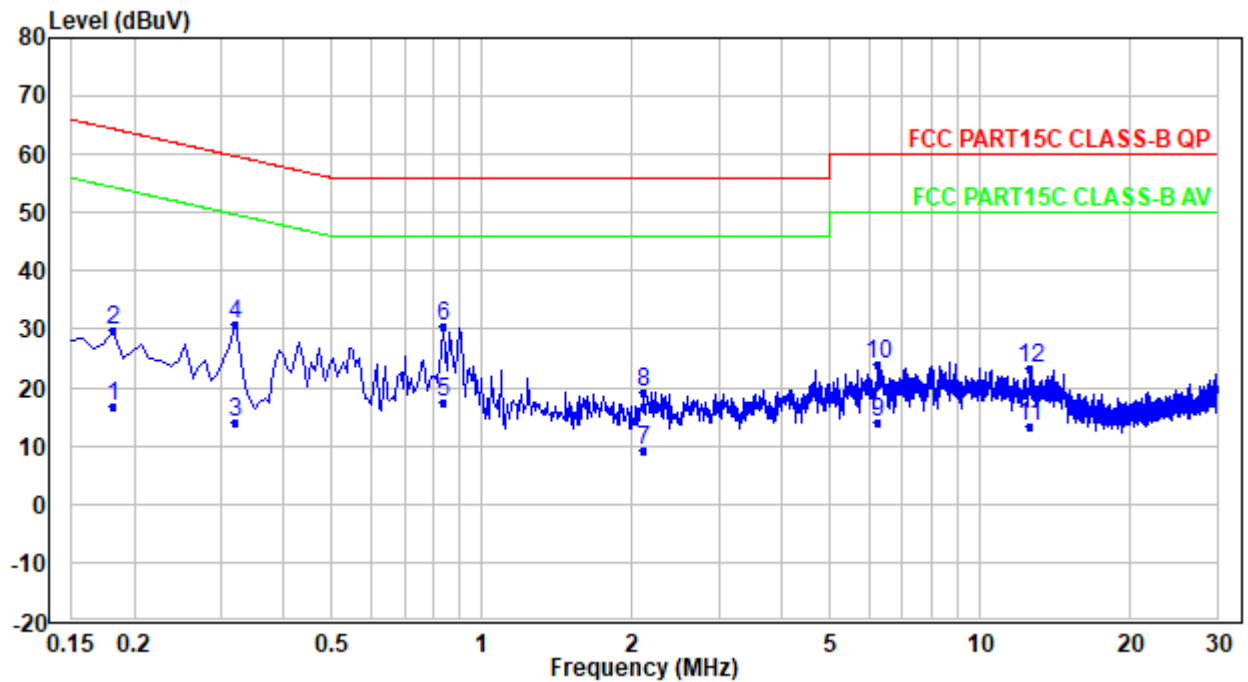
Mode: Wi-Fi Link

Live Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.318	8.51	10.13	18.64	49.76	-31.12	Average
2	0.318	21.51	10.13	31.64	59.76	-28.12	QP
3	0.550	16.56	10.16	26.72	46.00	-19.28	Average
4	0.550	26.56	10.16	36.72	56.00	-19.28	QP
5	0.862	9.71	10.20	19.91	46.00	-26.09	Average
6	0.862	22.71	10.20	32.91	56.00	-23.09	QP
7	1.590	8.97	10.24	19.21	46.00	-26.79	Average
8	1.590	15.97	10.24	26.21	56.00	-29.79	QP
9	3.973	7.41	10.29	17.70	46.00	-28.30	Average
10	3.973	15.41	10.29	25.70	56.00	-30.30	QP
11	13.539	4.86	10.79	15.65	50.00	-34.35	Average
12	13.539	15.86	10.79	26.65	60.00	-33.35	QP

Neutral Line



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.182	6.80	10.11	16.91	54.39	-37.48	Average
2	0.182	19.80	10.11	29.91	64.39	-34.48	QP
3	0.318	3.87	10.11	13.98	49.76	-35.78	Average
4	0.318	20.87	10.11	30.98	59.76	-28.78	QP
5	0.838	7.37	10.15	17.52	46.00	-28.48	Average
6	0.838	20.37	10.15	30.52	56.00	-25.48	QP
7	2.118	-0.97	10.19	9.22	46.00	-36.78	Average
8	2.118	9.03	10.19	19.22	56.00	-36.78	QP
9	6.261	3.61	10.43	14.04	50.00	-35.96	Average
10	6.261	13.61	10.43	24.04	60.00	-35.96	QP
11	12.587	2.54	10.73	13.27	50.00	-36.73	Average
12	12.588	12.54	10.73	23.27	60.00	-36.73	QP

Remark:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result - Limit
4. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.
5. All possible modes of operation were investigated, and testing at two nominal voltages of 240V/50Hz and 120V/60Hz, only the worst case emissions reported.

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UTTR-RF-FCCPART15.407-V1.1

APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of UnionTrust, this report can't be reproduced except in full.
