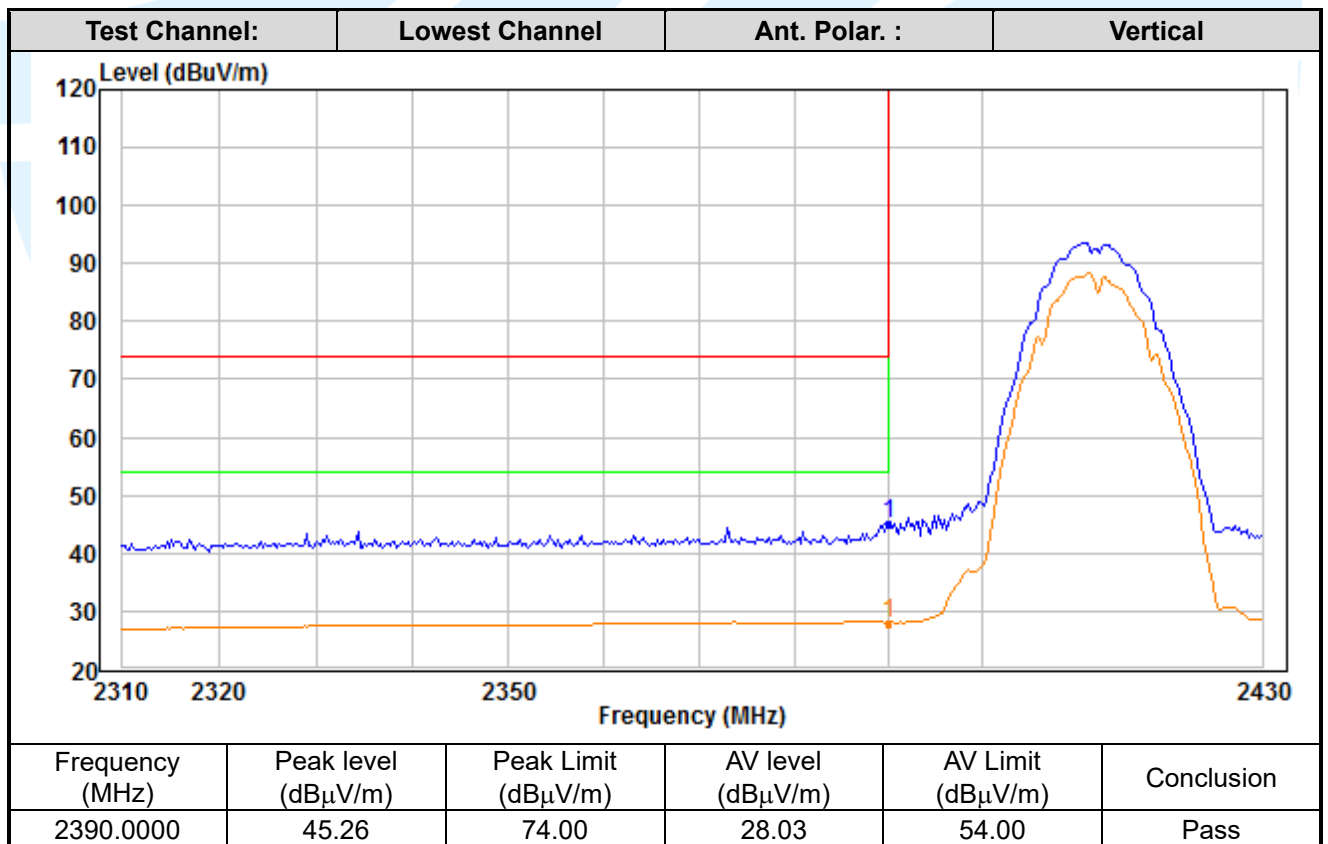
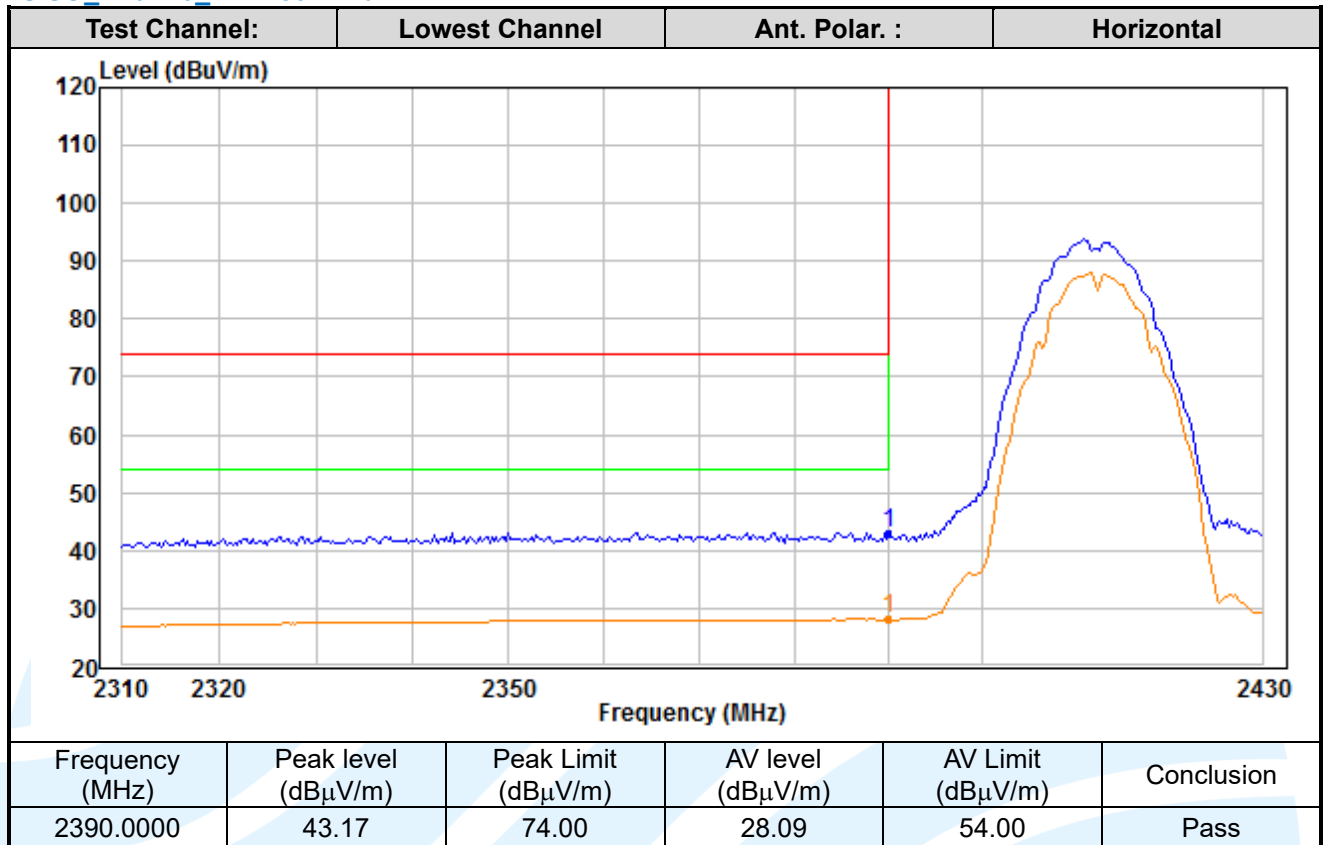


SISO_Chain 0_IEEE 802.11b



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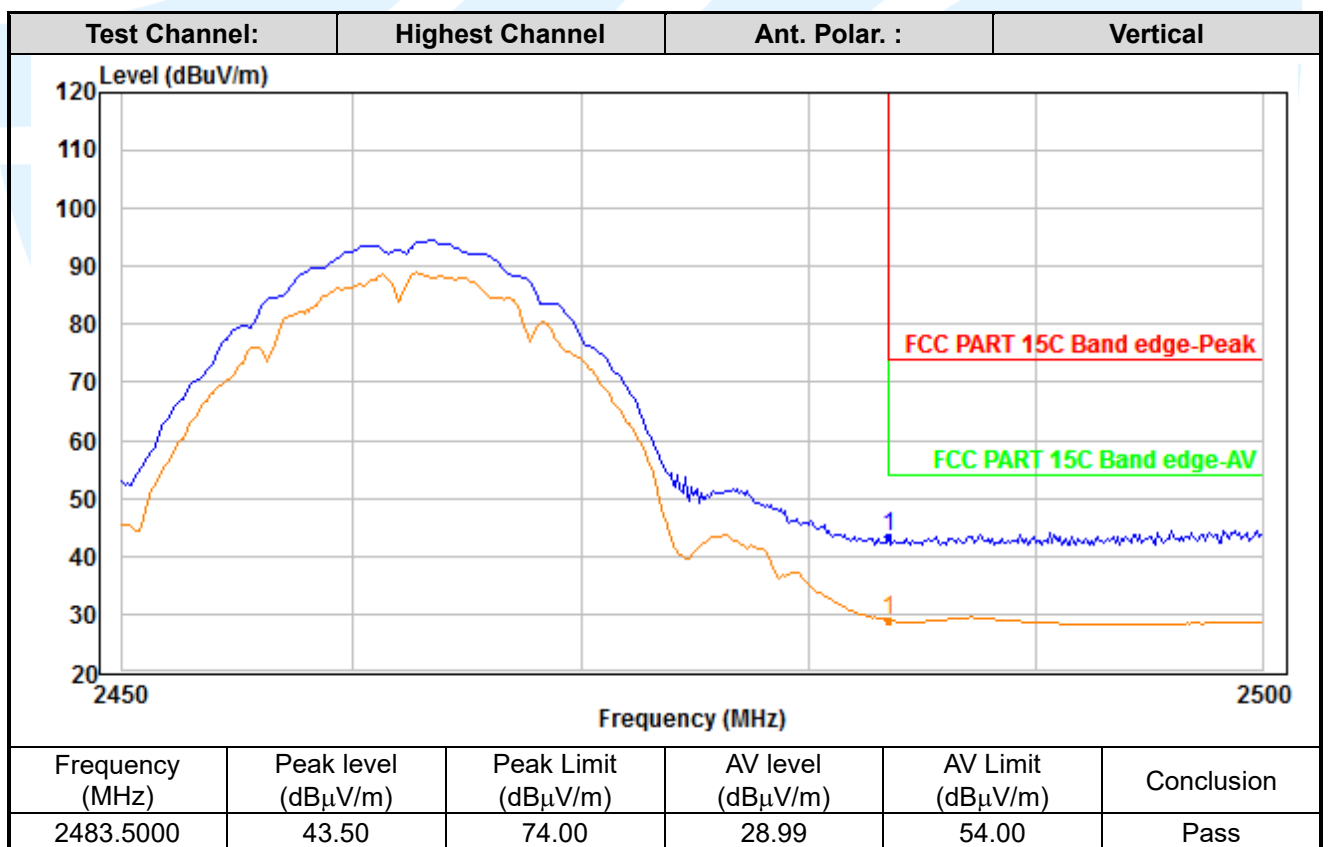
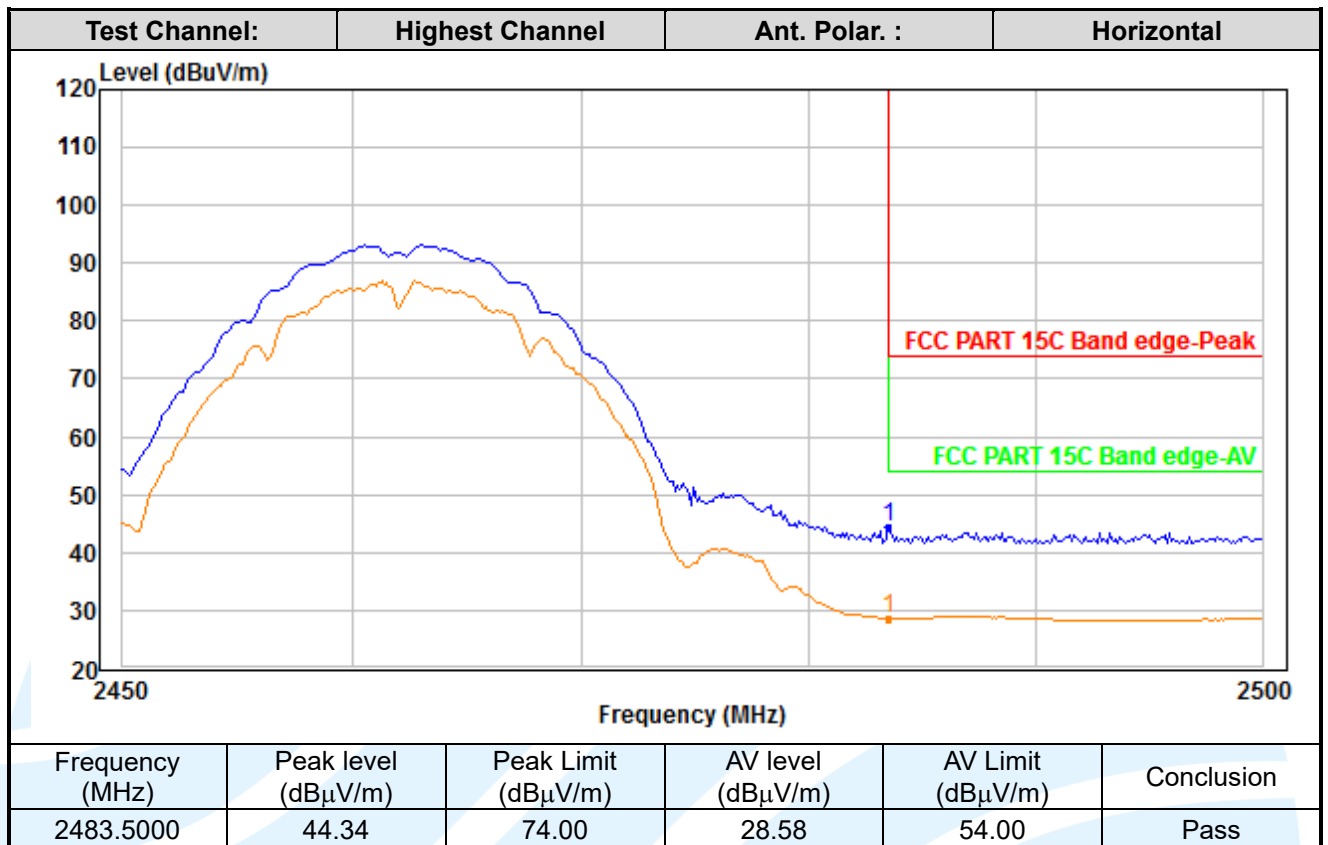
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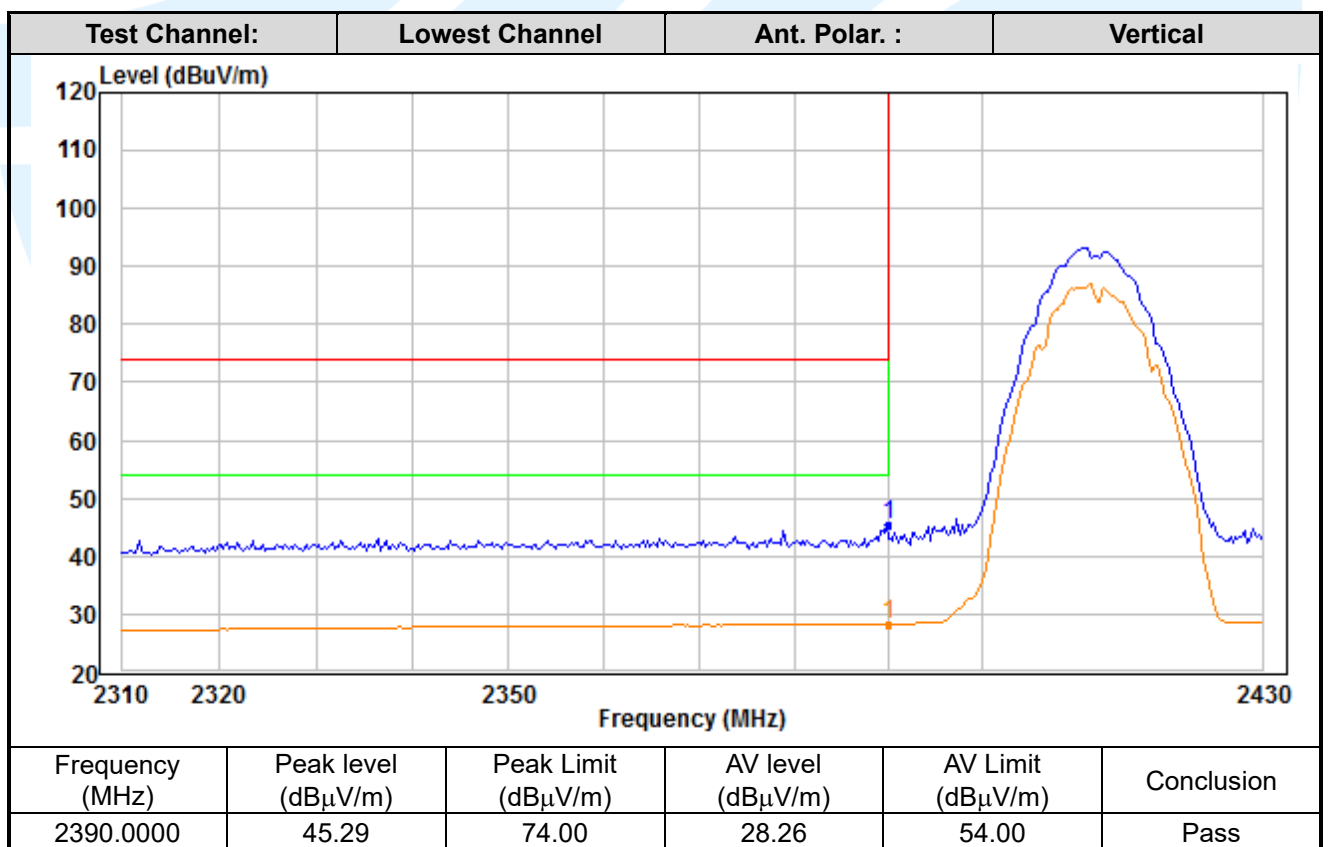
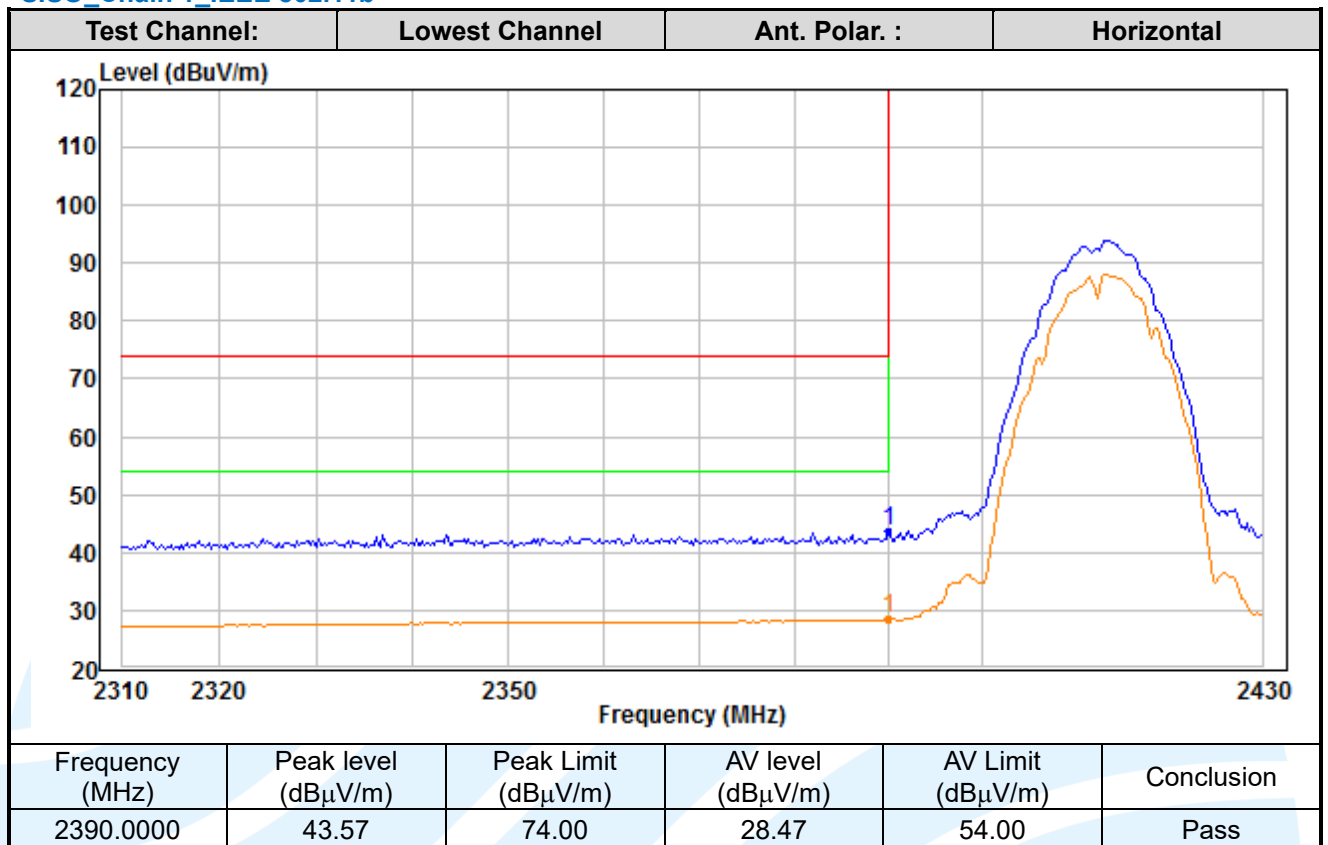
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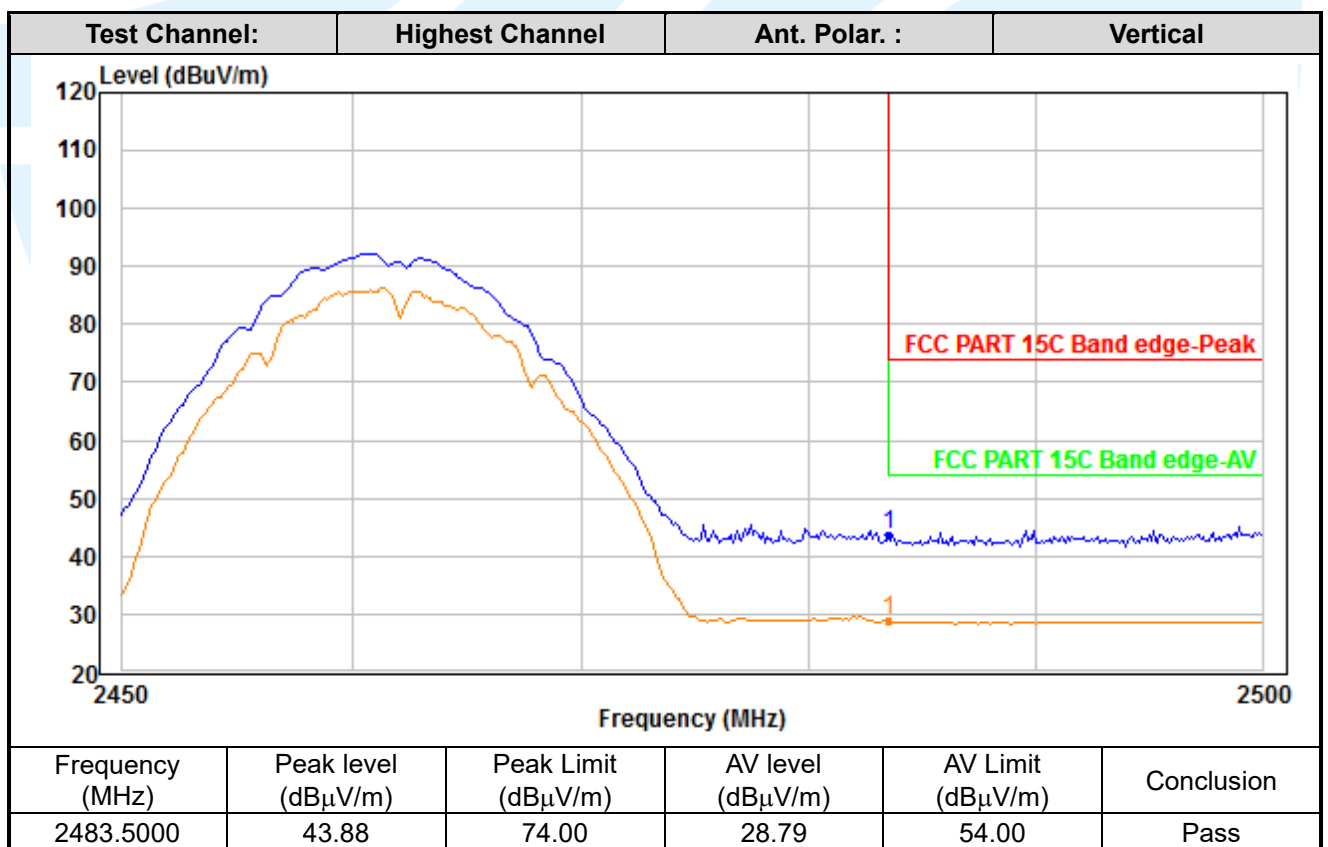
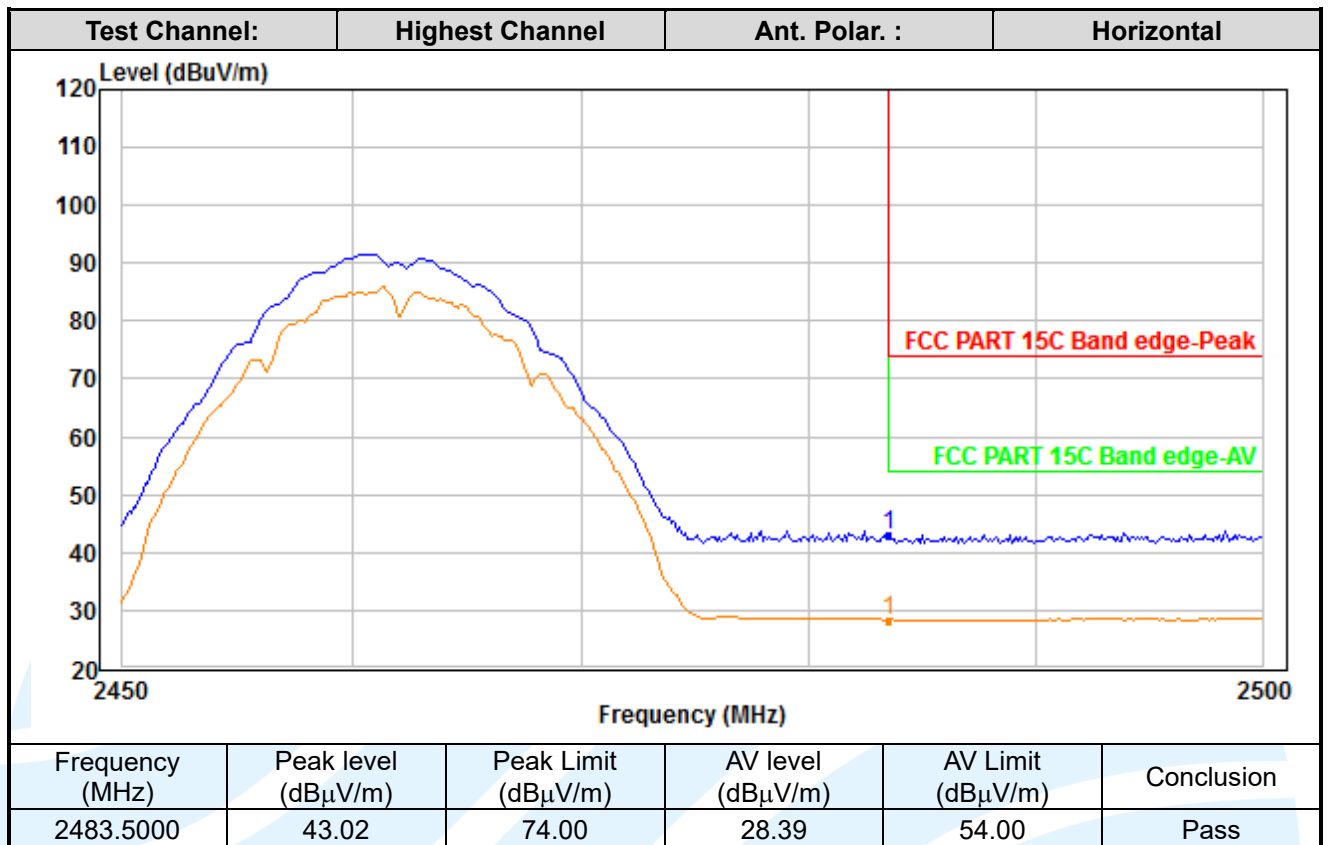
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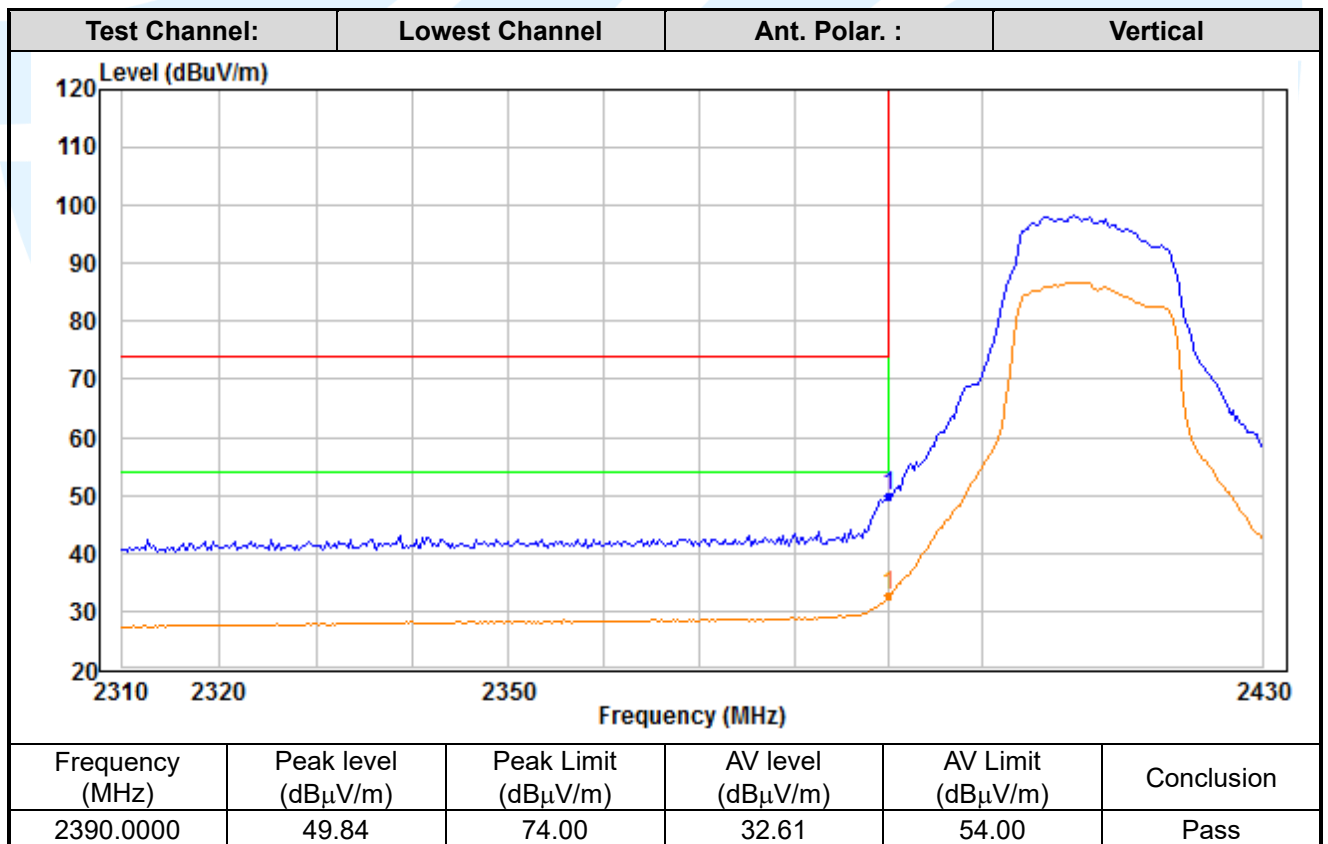
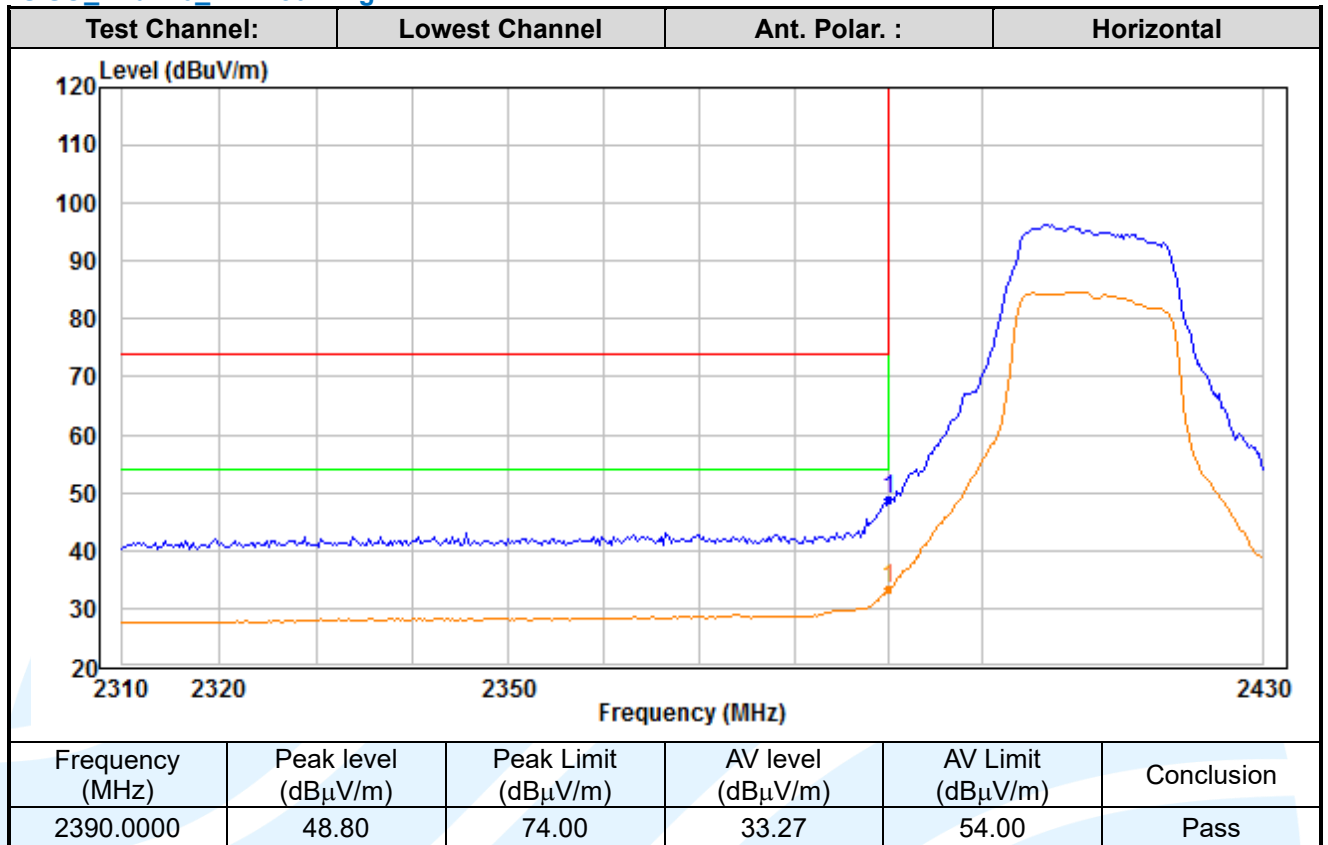
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SISO_Chain 0_IEEE 802.11g



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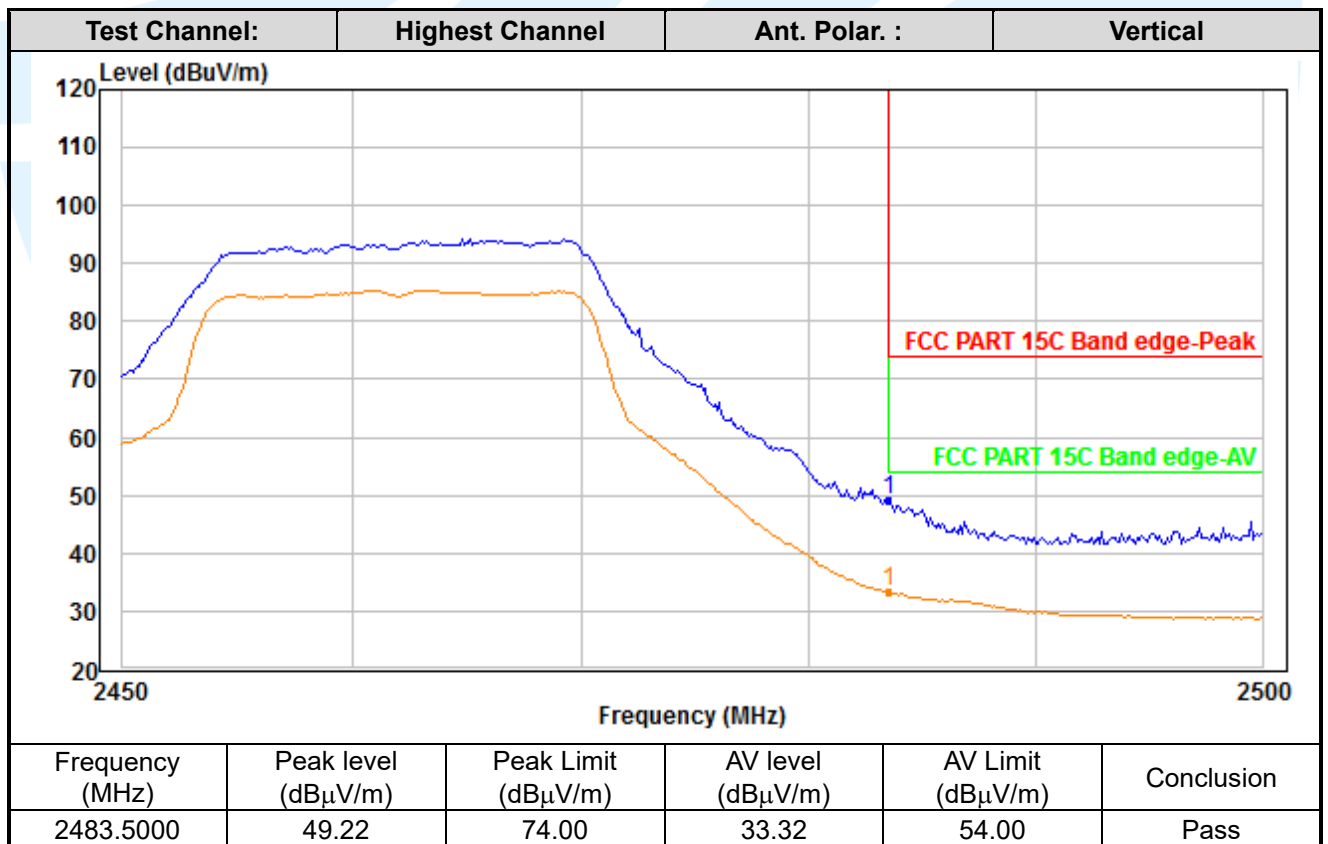
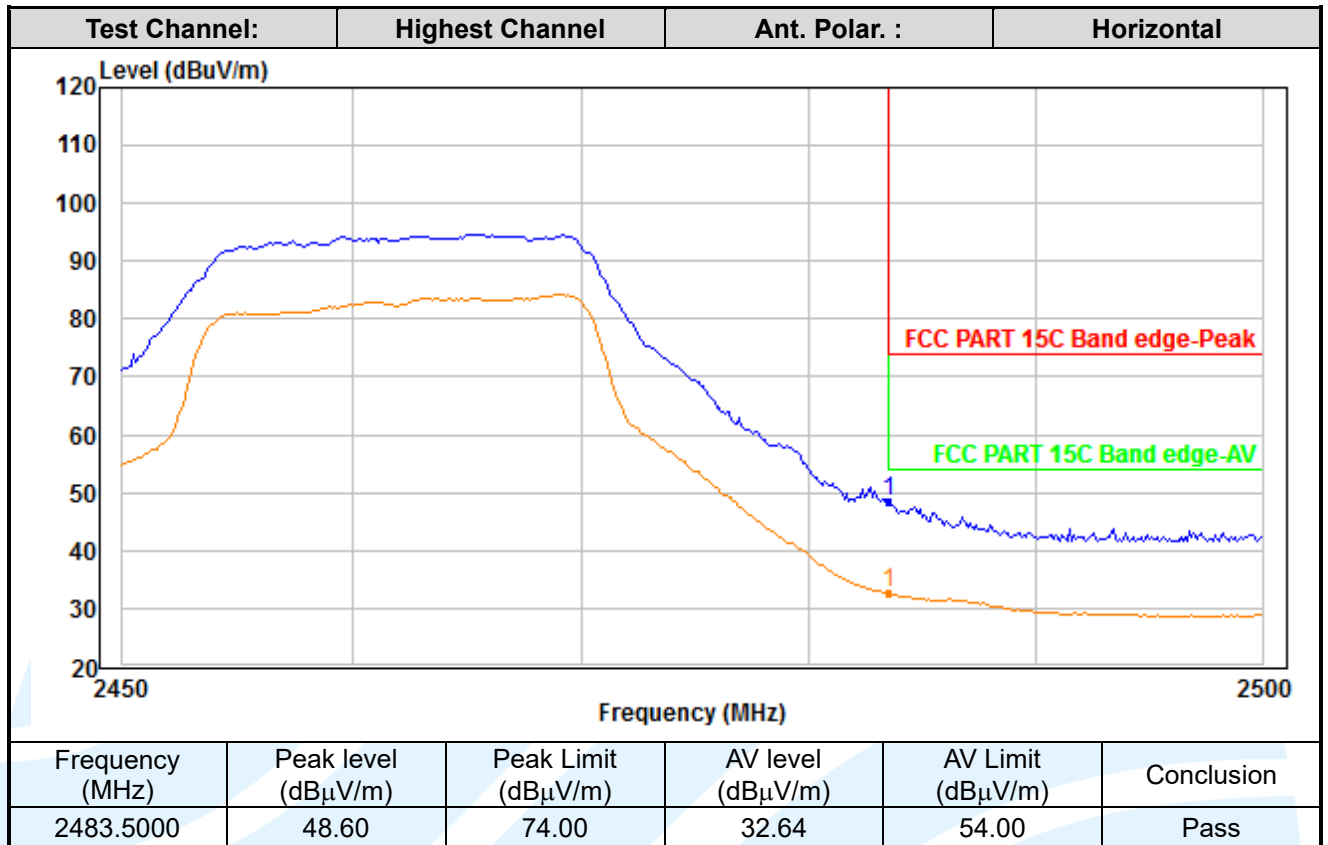
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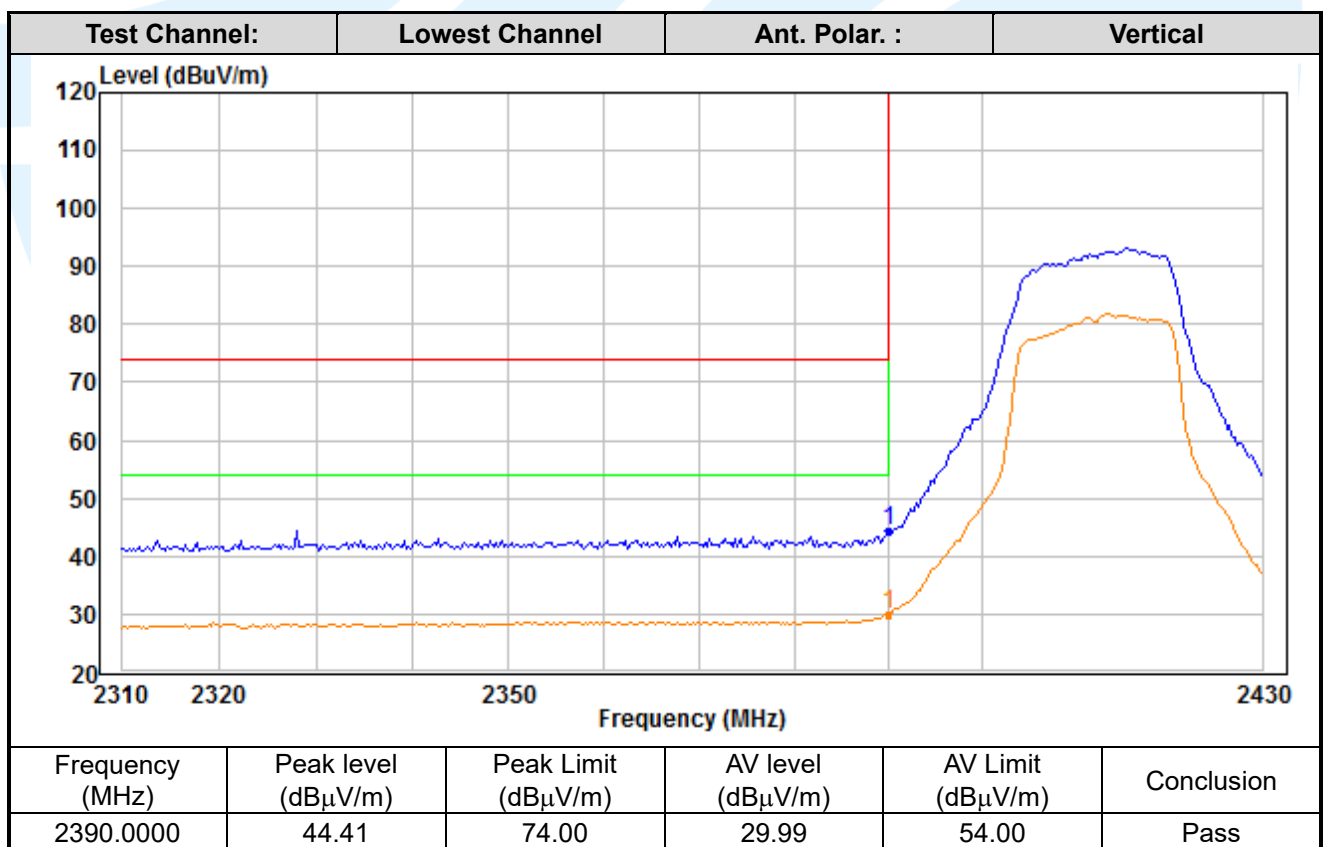
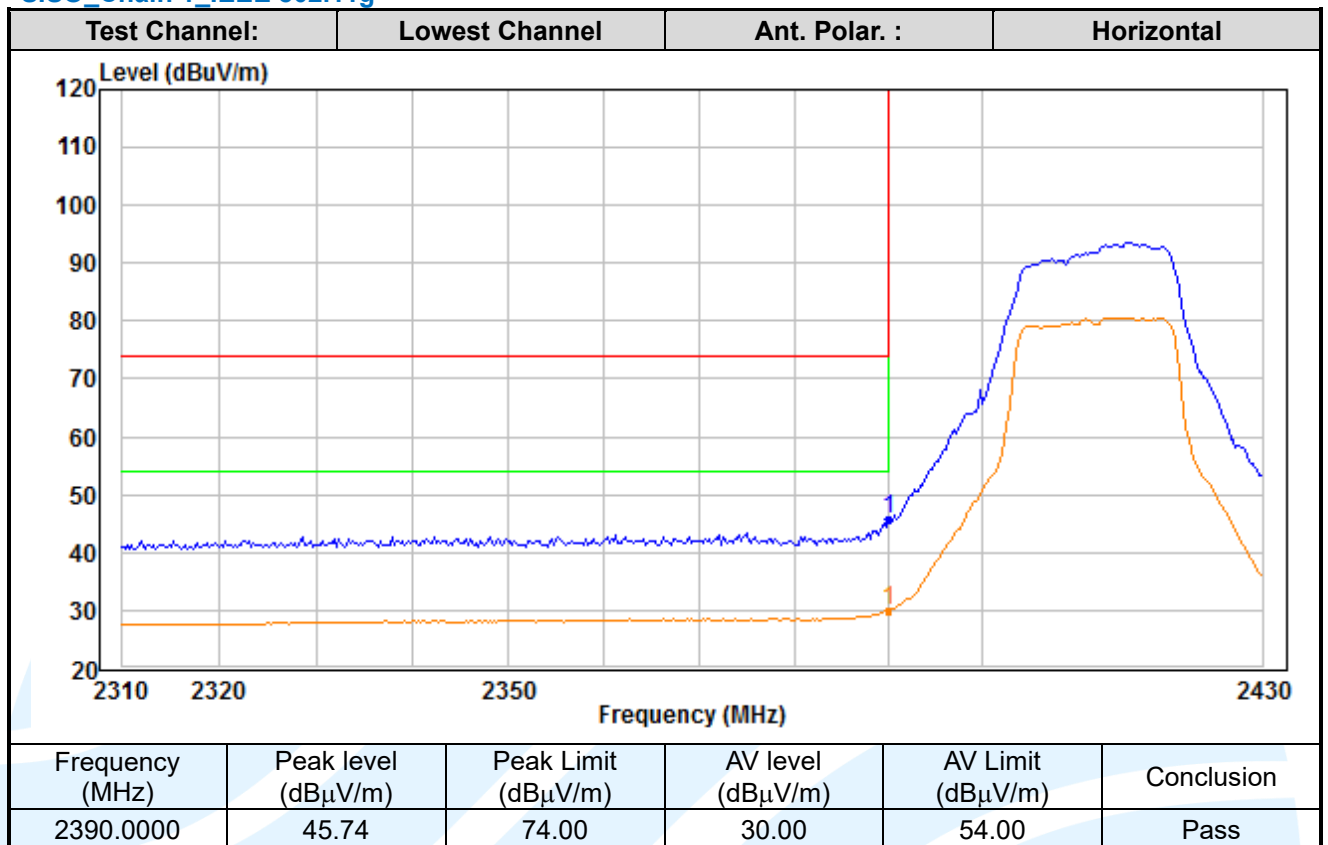
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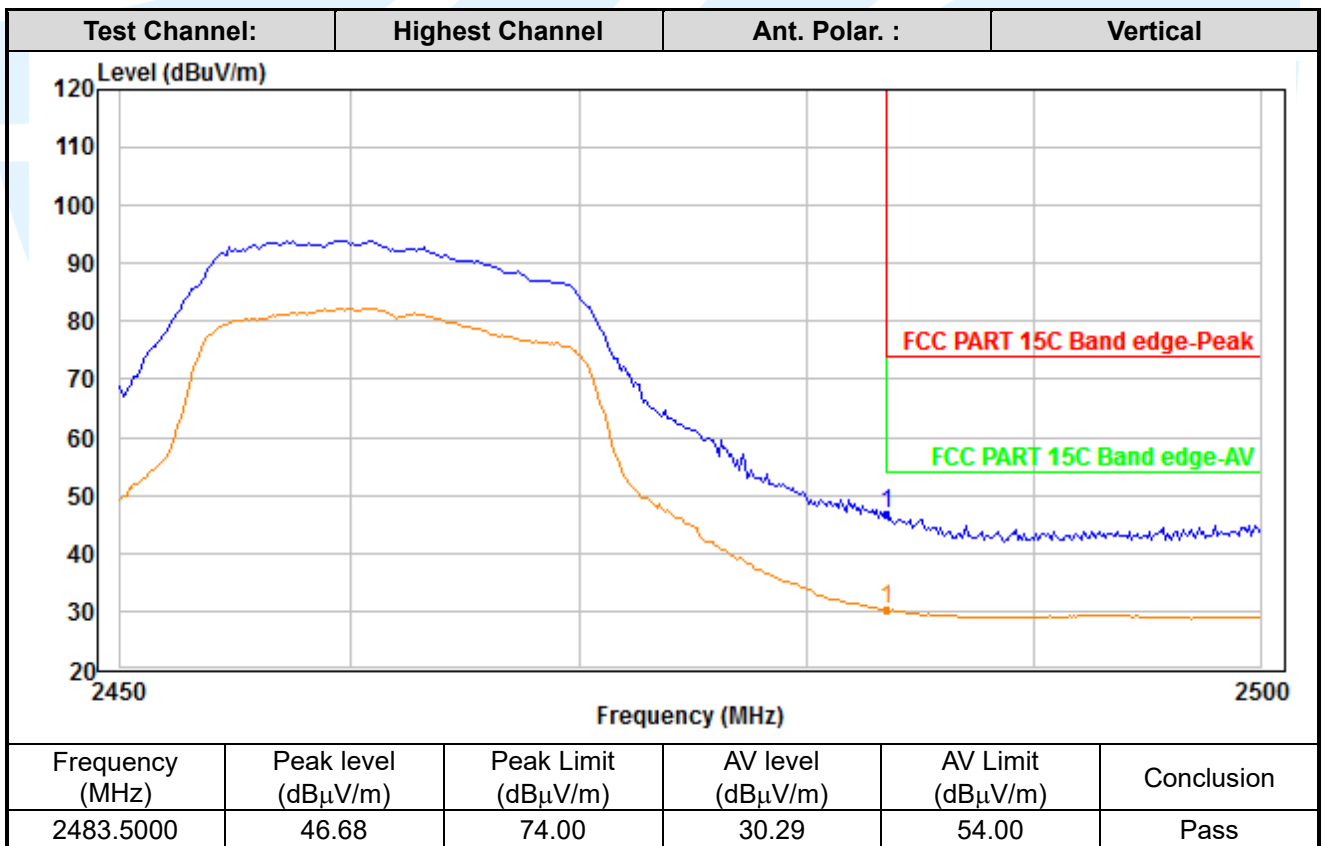
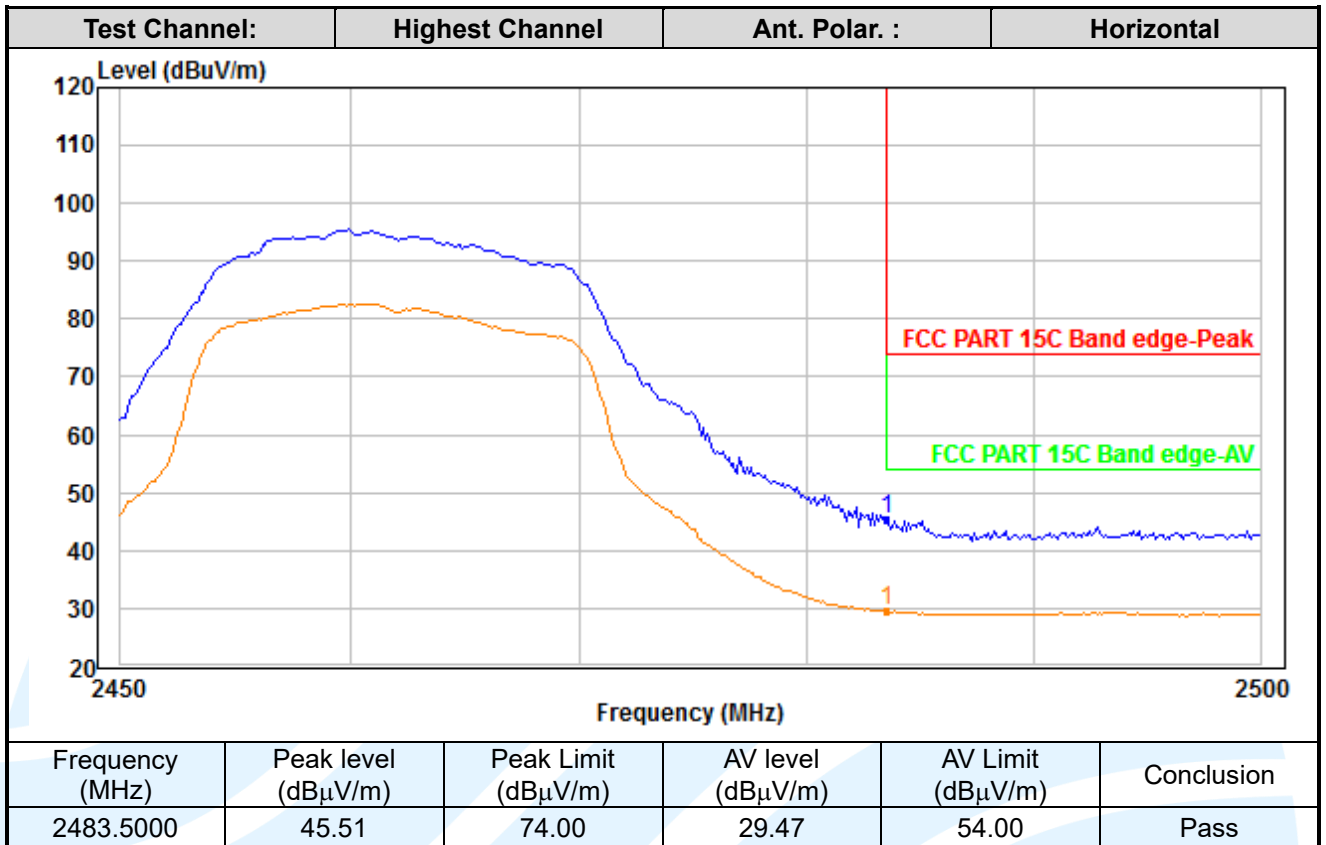
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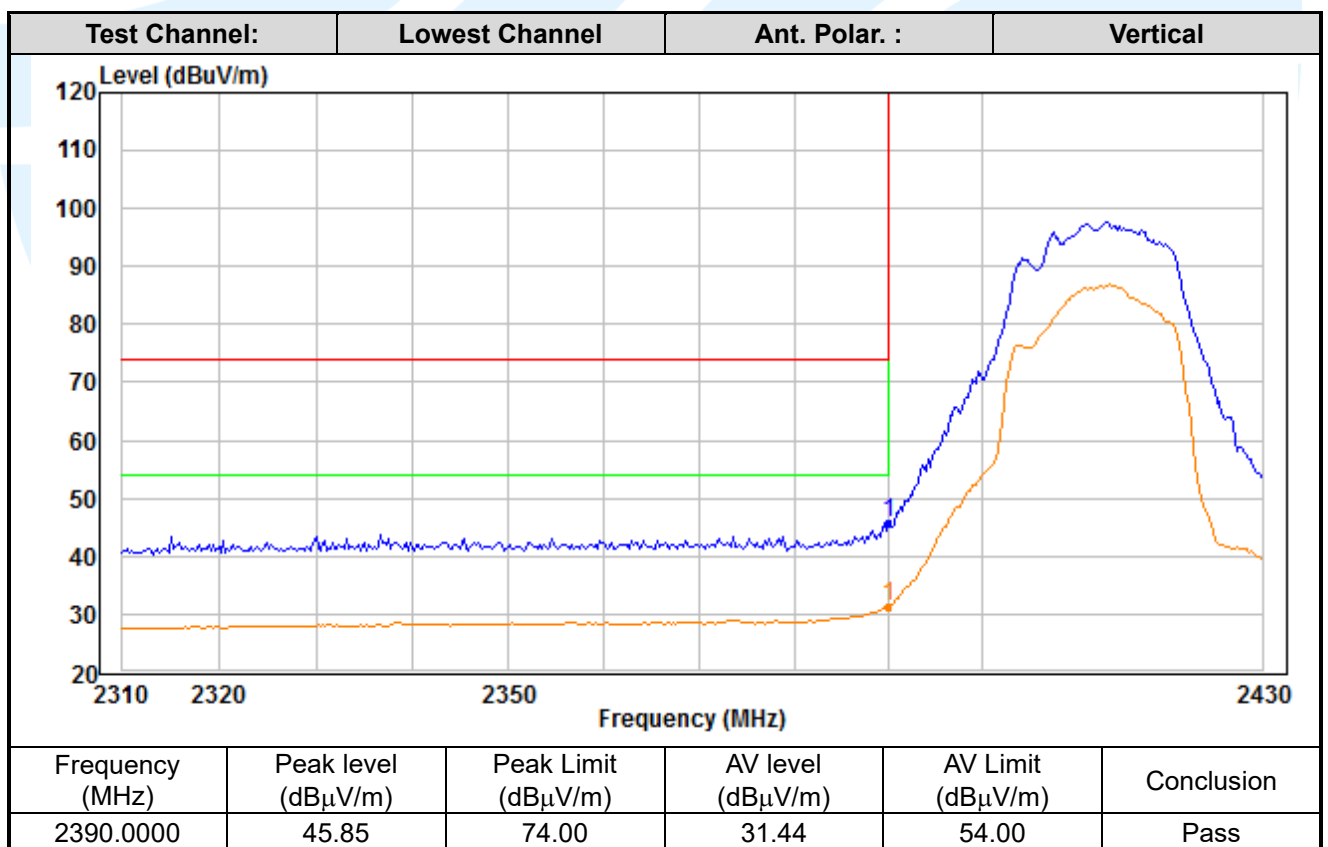
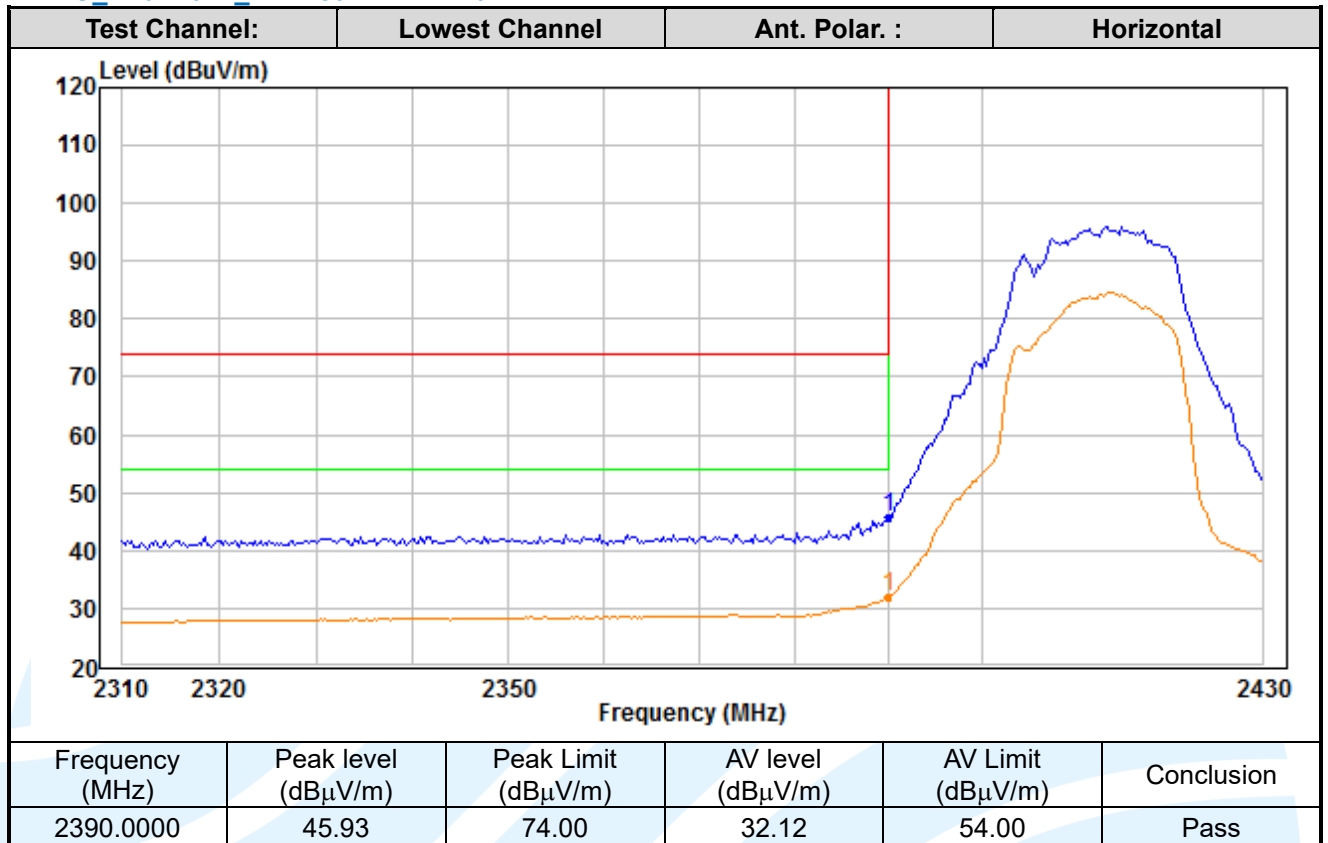
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MIMO_Chain 0+1_ IEEE 802.11n-HT20



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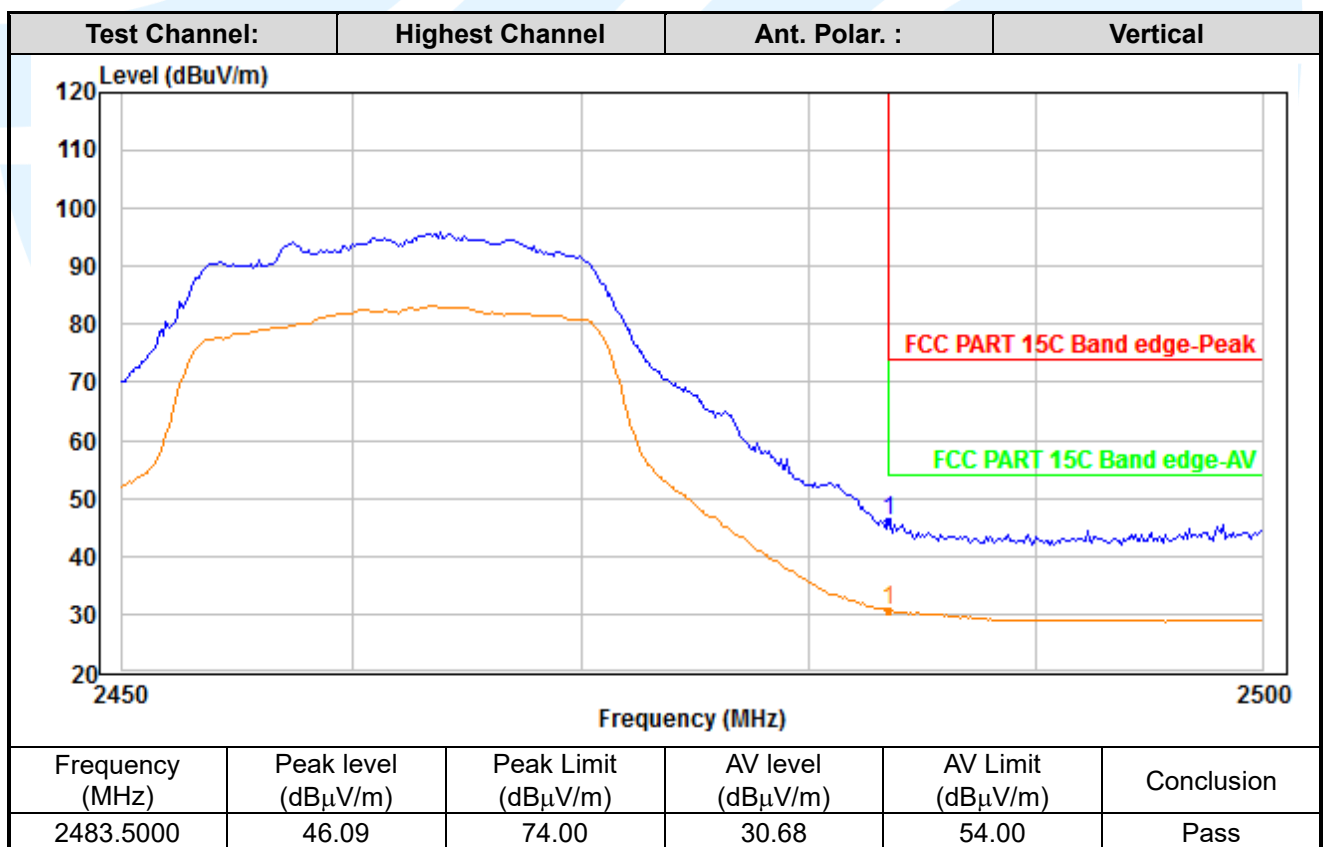
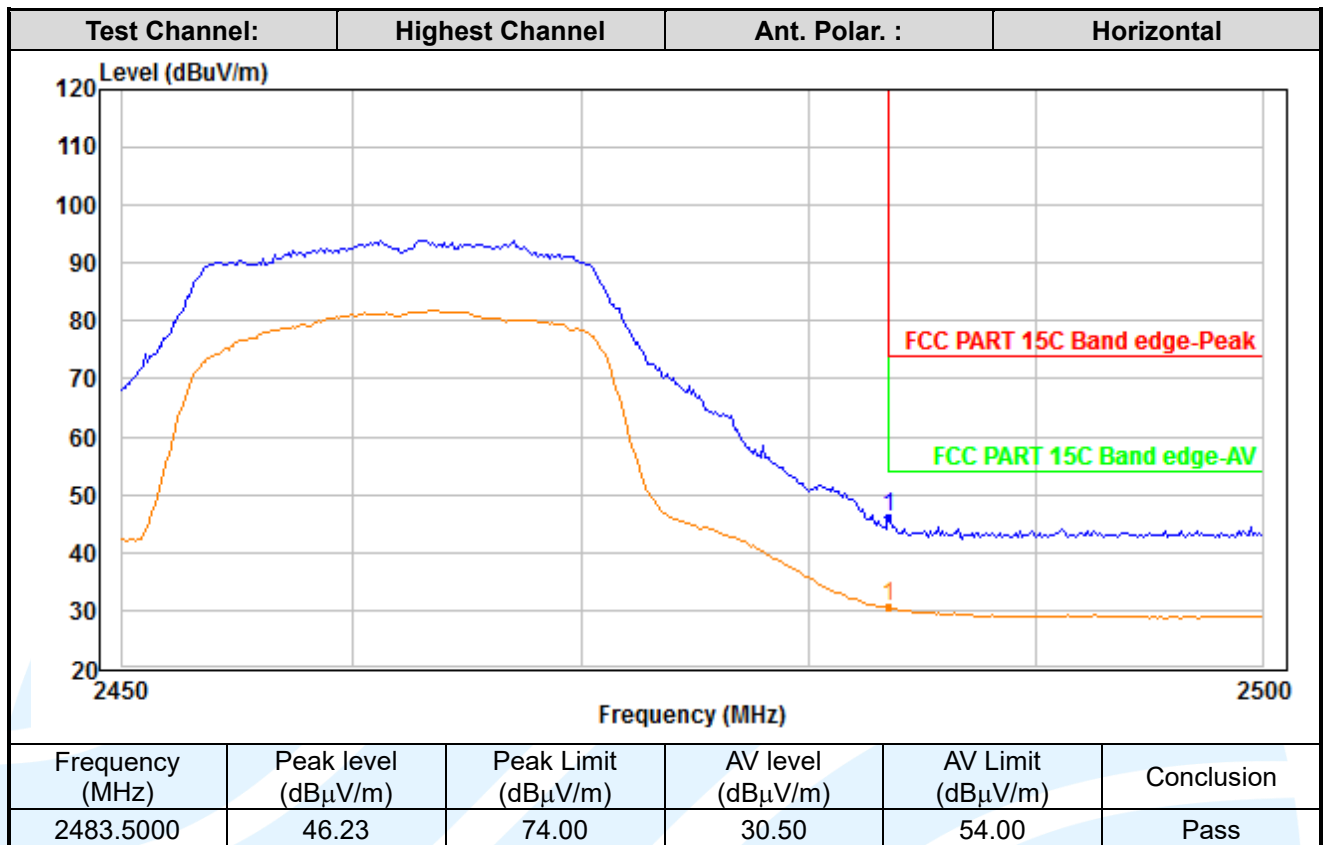
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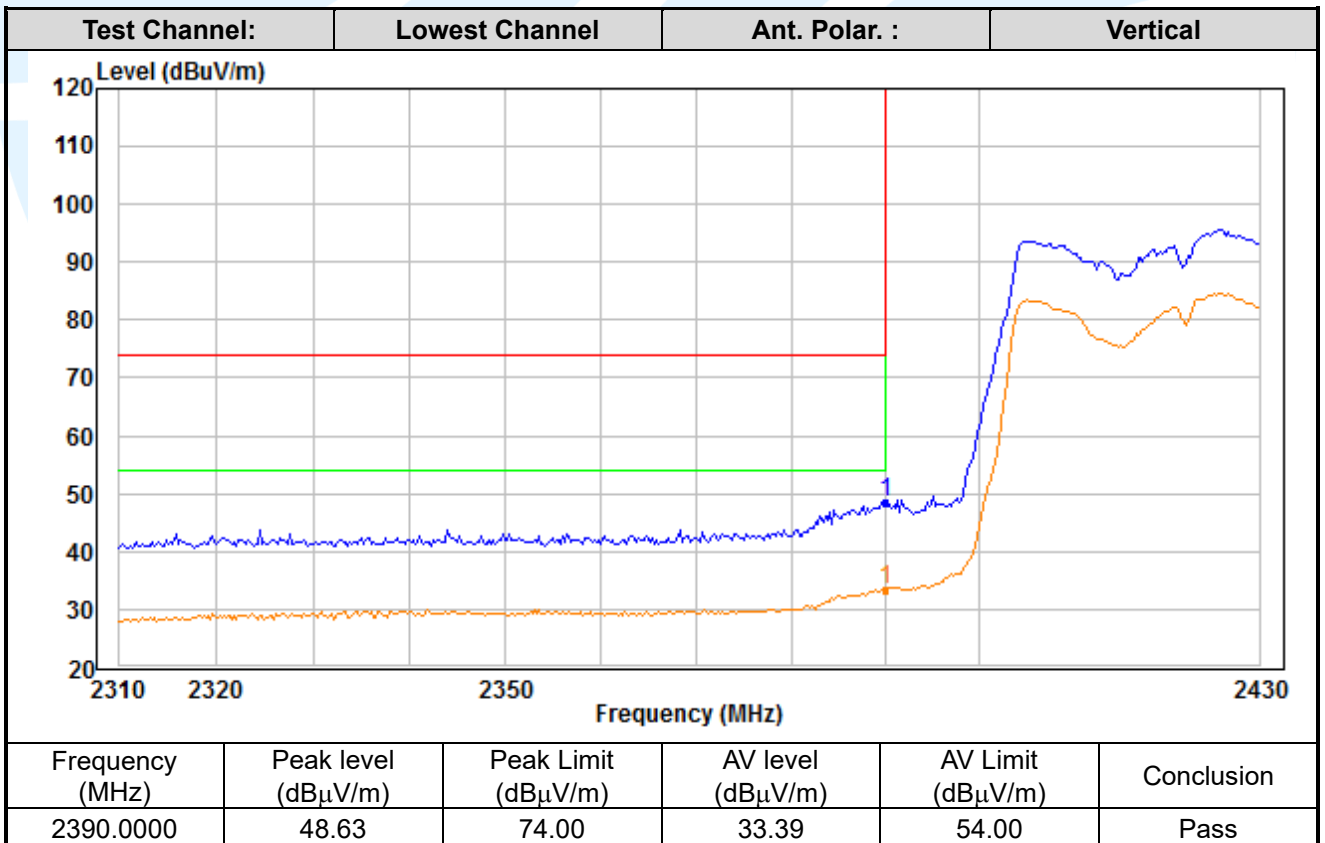
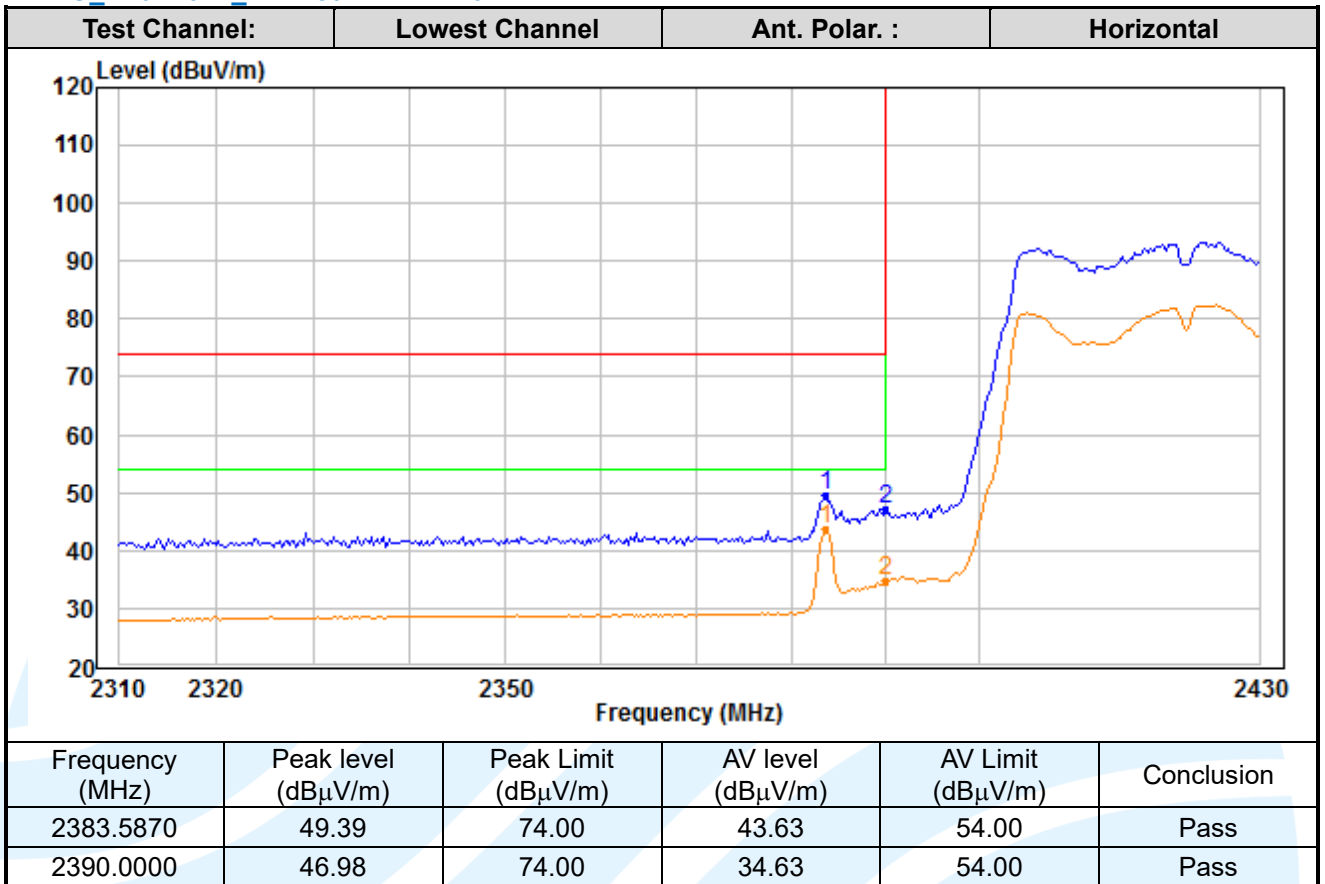
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MIMO_Chain 0+1_ IEEE 802.11n-HT40



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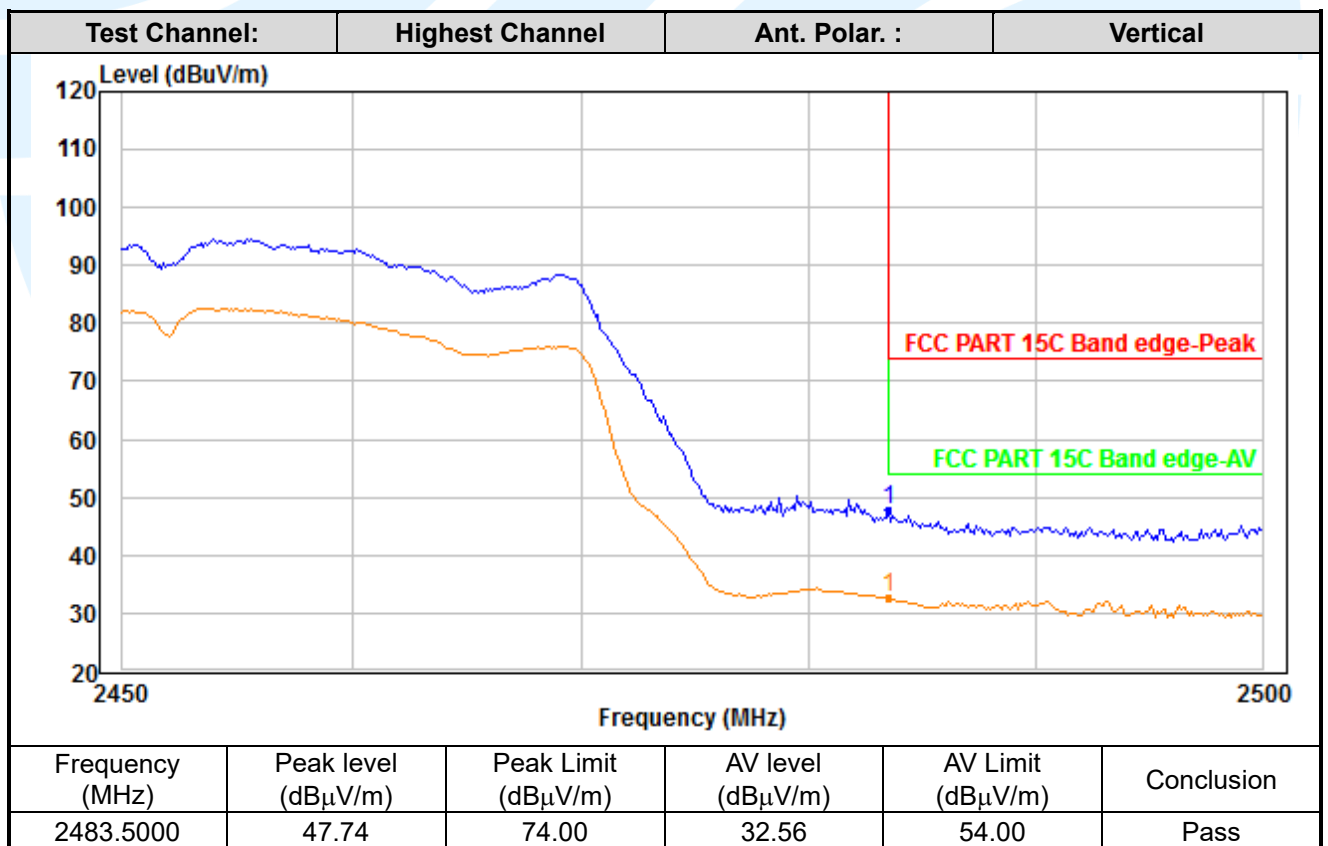
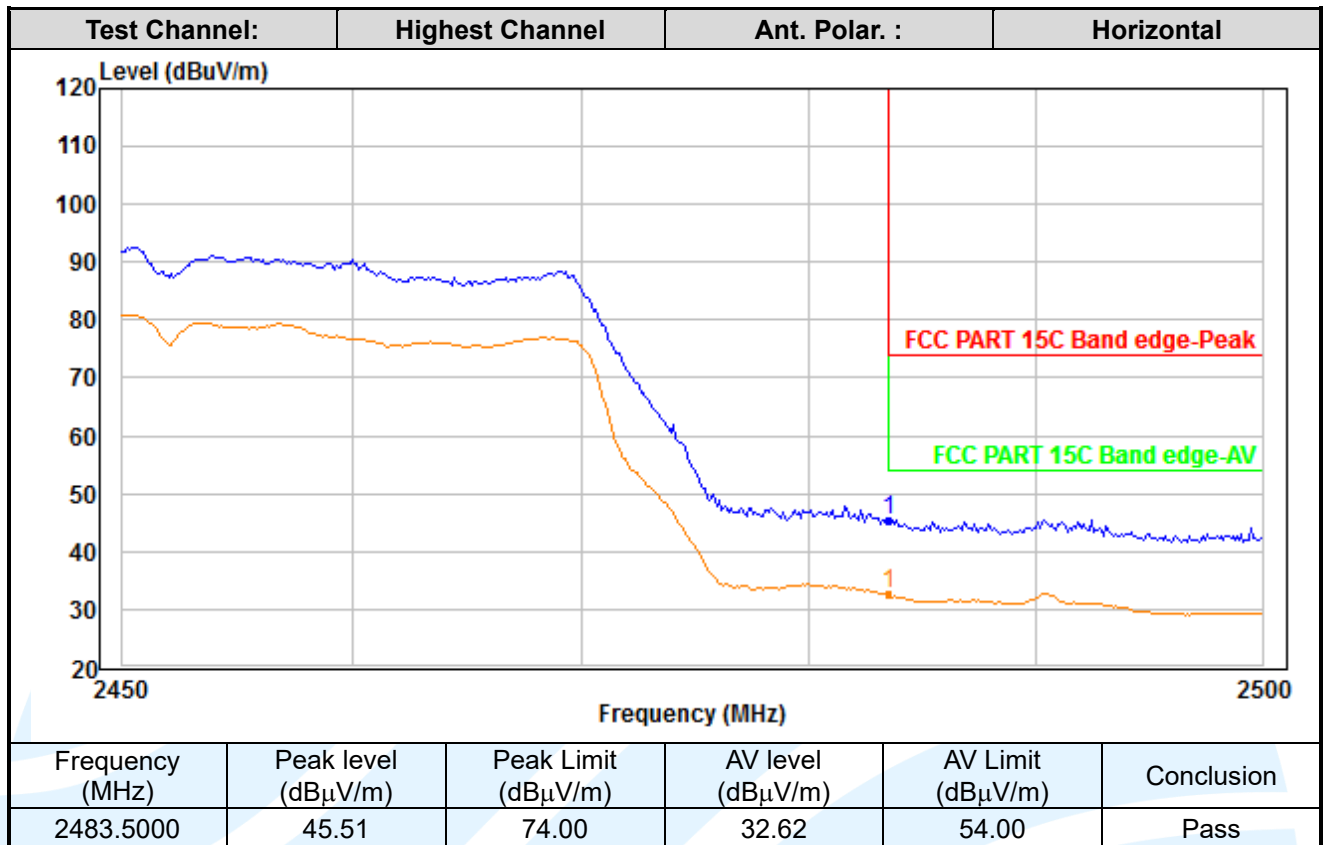
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5.9 CONDUCTED EMISSION

Test Requirement: 47 CFR Part 15C 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 4.5.2 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 $50\Omega/50\mu\text{H} + 5\Omega$ 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.

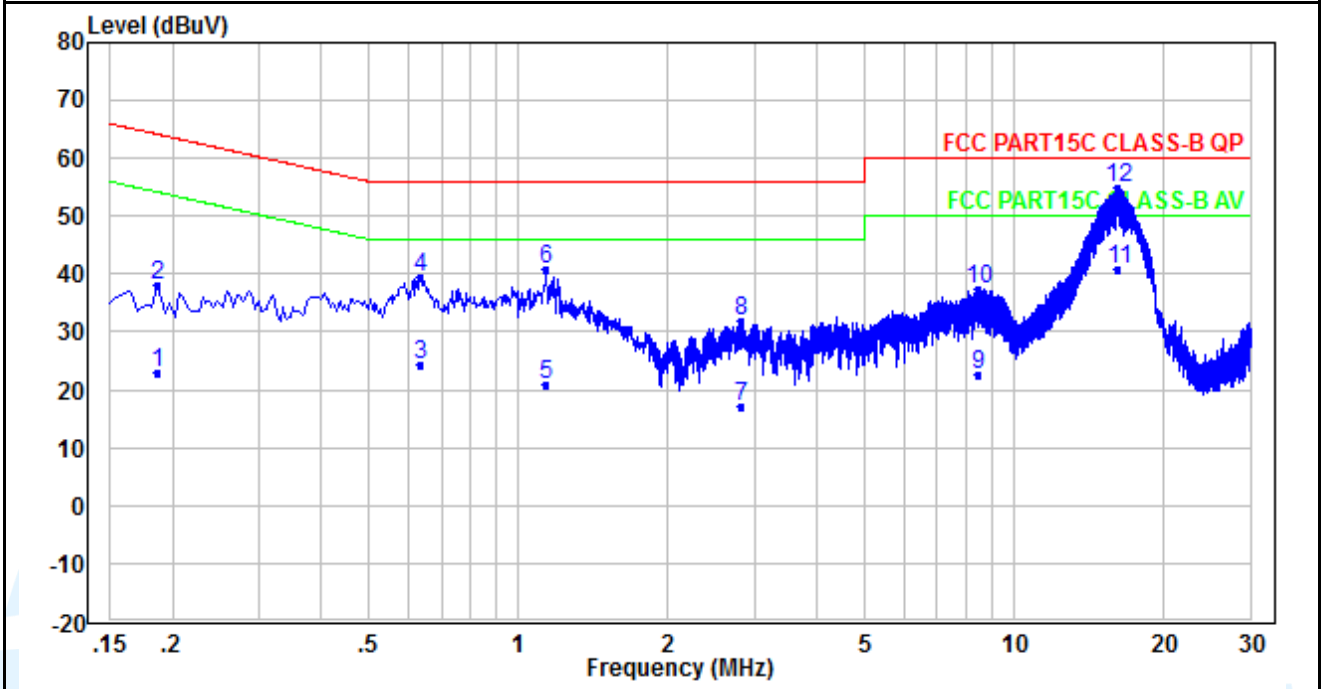
Test Result: Pass

The measurement data as follows:

Quasi Peak and Average:

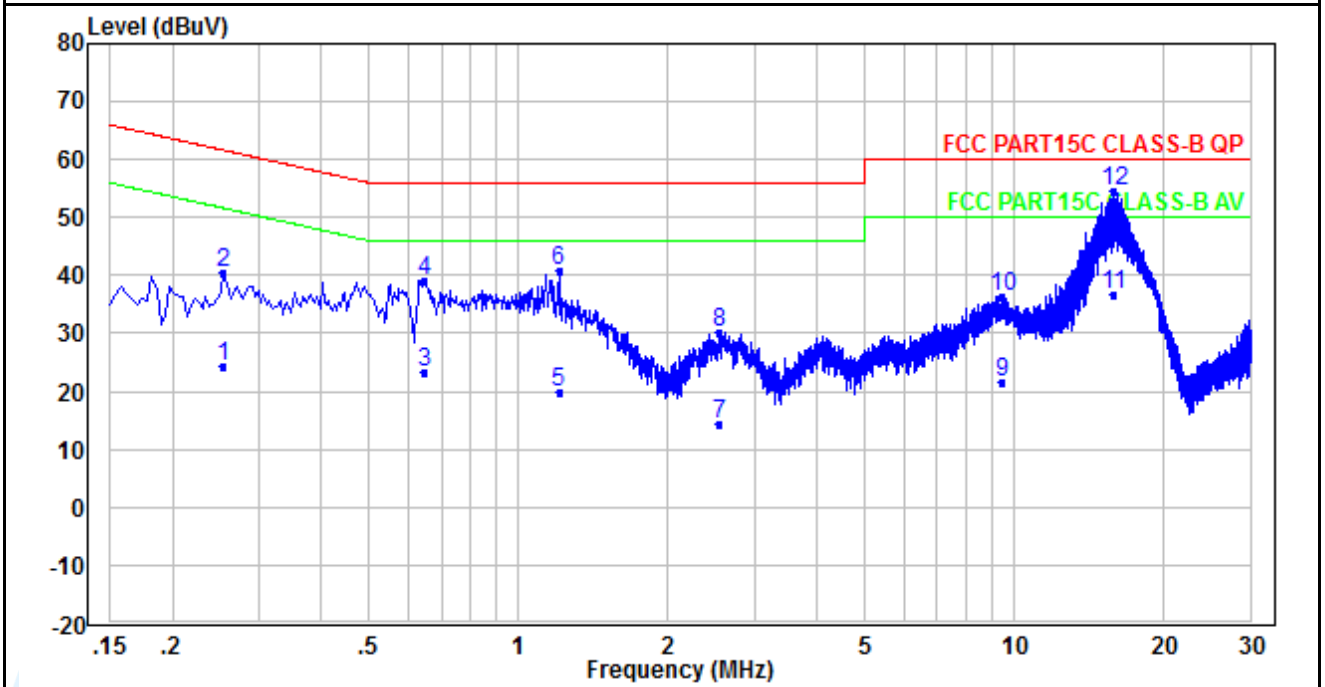
Mode: Wi-Fi Link

Live Line



No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.186	13.38	9.74	23.12	54.21	-31.09	Average
2	0.186	28.38	9.74	38.12	64.21	-26.09	QP
3	0.634	14.57	9.85	24.42	46.00	-21.58	Average
4	0.634	29.57	9.85	39.42	56.00	-16.58	QP
5	1.138	10.97	9.89	20.86	46.00	-25.14	Average
6	1.138	30.97	9.89	40.86	56.00	-15.14	QP
7	2.806	7.02	9.95	16.97	46.00	-29.03	Average
8	2.806	22.02	9.95	31.97	56.00	-24.03	QP
9	8.481	12.31	10.24	22.55	50.00	-27.45	Average
10	8.481	27.31	10.24	37.55	60.00	-22.45	QP
11	16.241	30.49	10.43	40.92	50.00	-9.08	Average
12	16.241	44.49	10.43	54.92	60.00	-5.08	QP

Neutral Line



No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.254	14.65	9.75	24.40	51.63	-27.23	Average
2	0.254	30.65	9.75	40.40	61.63	-21.23	QP
3	0.646	13.45	9.79	23.24	46.00	-22.76	Average
4	0.646	29.45	9.79	39.24	56.00	-16.76	QP
5	1.206	10.13	9.86	19.99	46.00	-26.01	Average
6	1.206	31.13	9.86	40.99	56.00	-15.01	QP
7	2.546	4.35	9.97	14.32	46.00	-31.68	Average
8	2.546	20.35	9.97	30.32	56.00	-25.68	QP
9	9.437	11.20	10.32	21.52	50.00	-28.48	Average
10	9.437	26.20	10.32	36.52	60.00	-23.48	QP
11	15.897	26.14	10.50	36.64	50.00	-13.36	Average
12	15.897	44.14	10.50	54.64	60.00	-5.36	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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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 ***

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