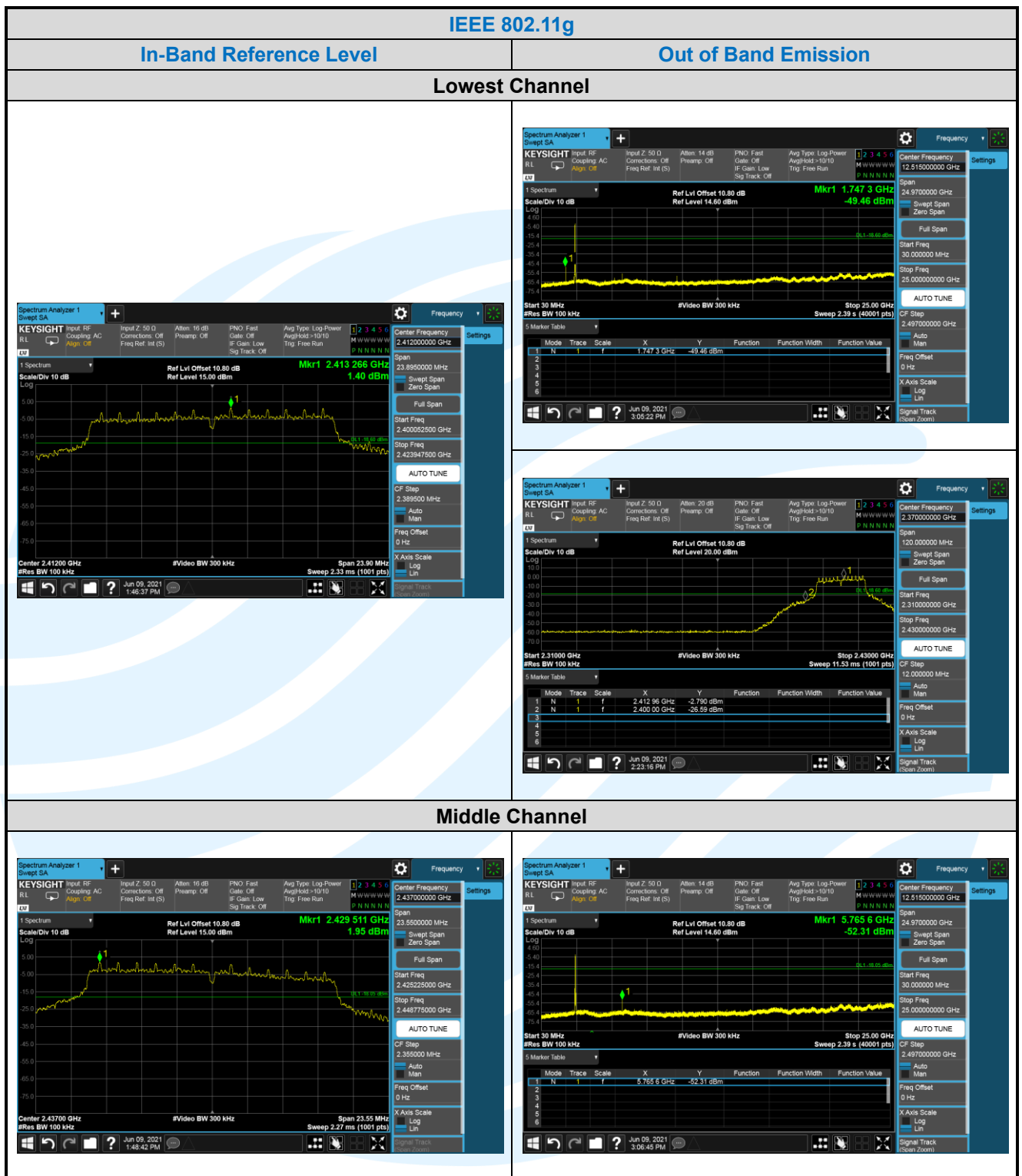
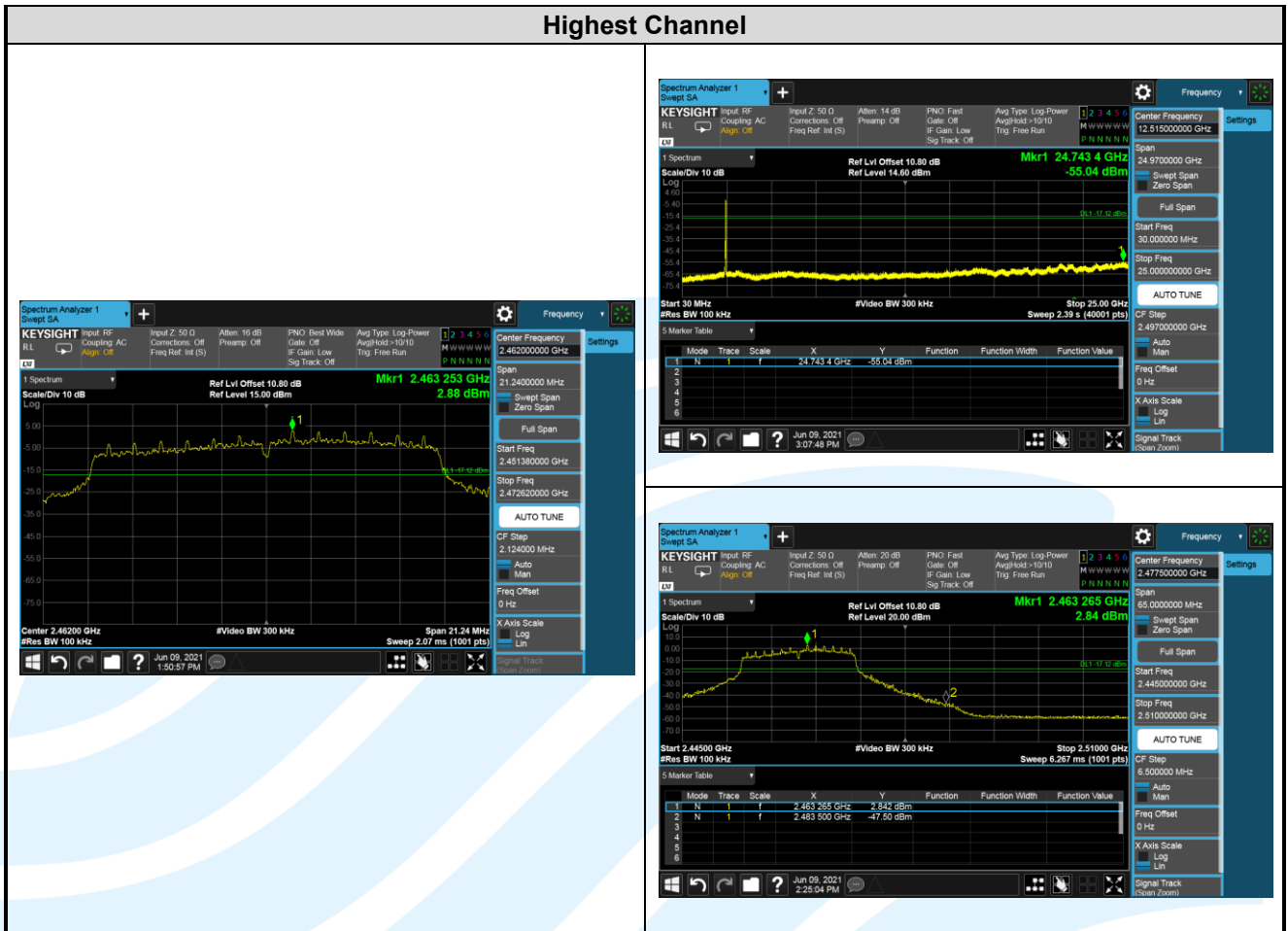






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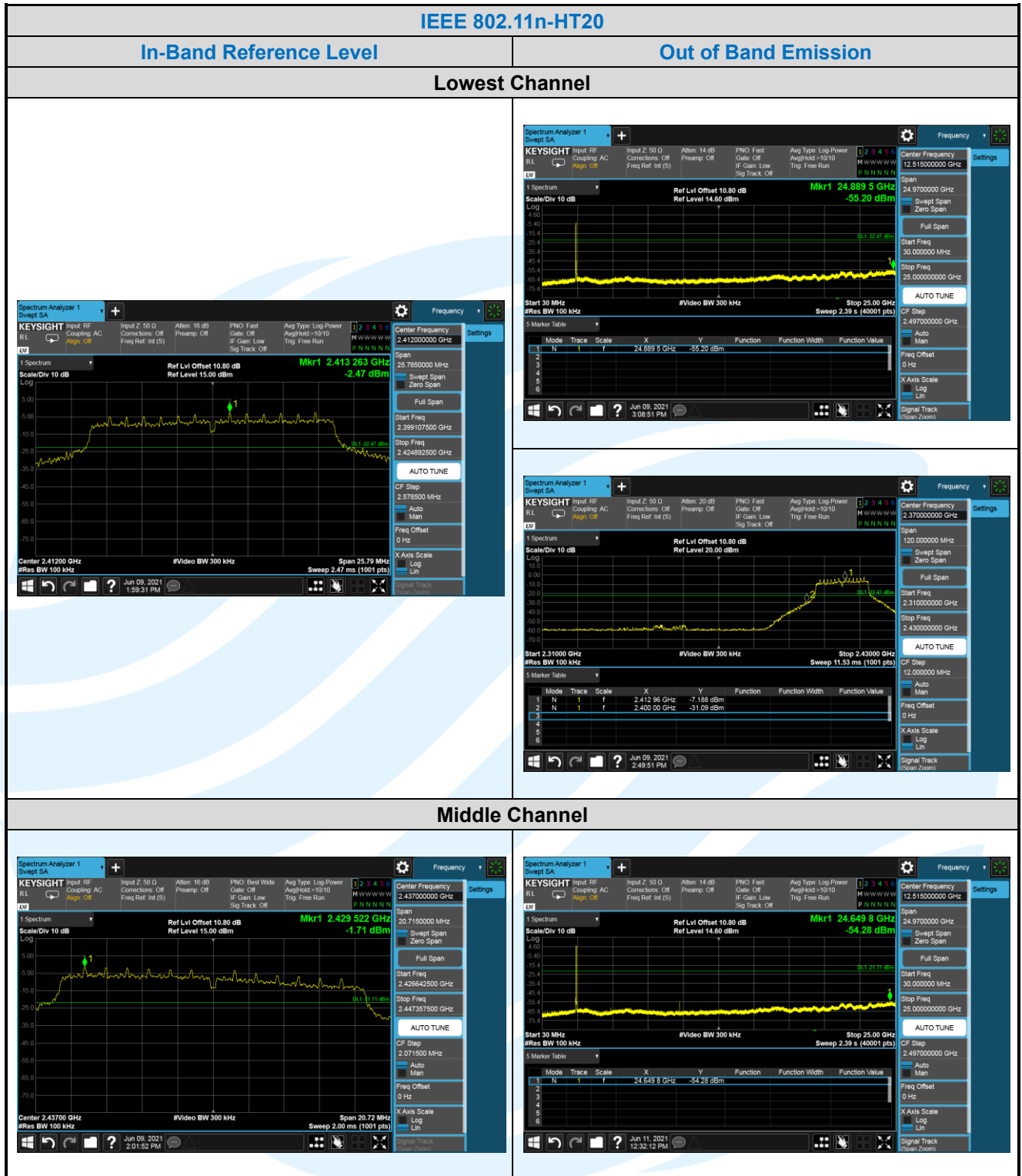
Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

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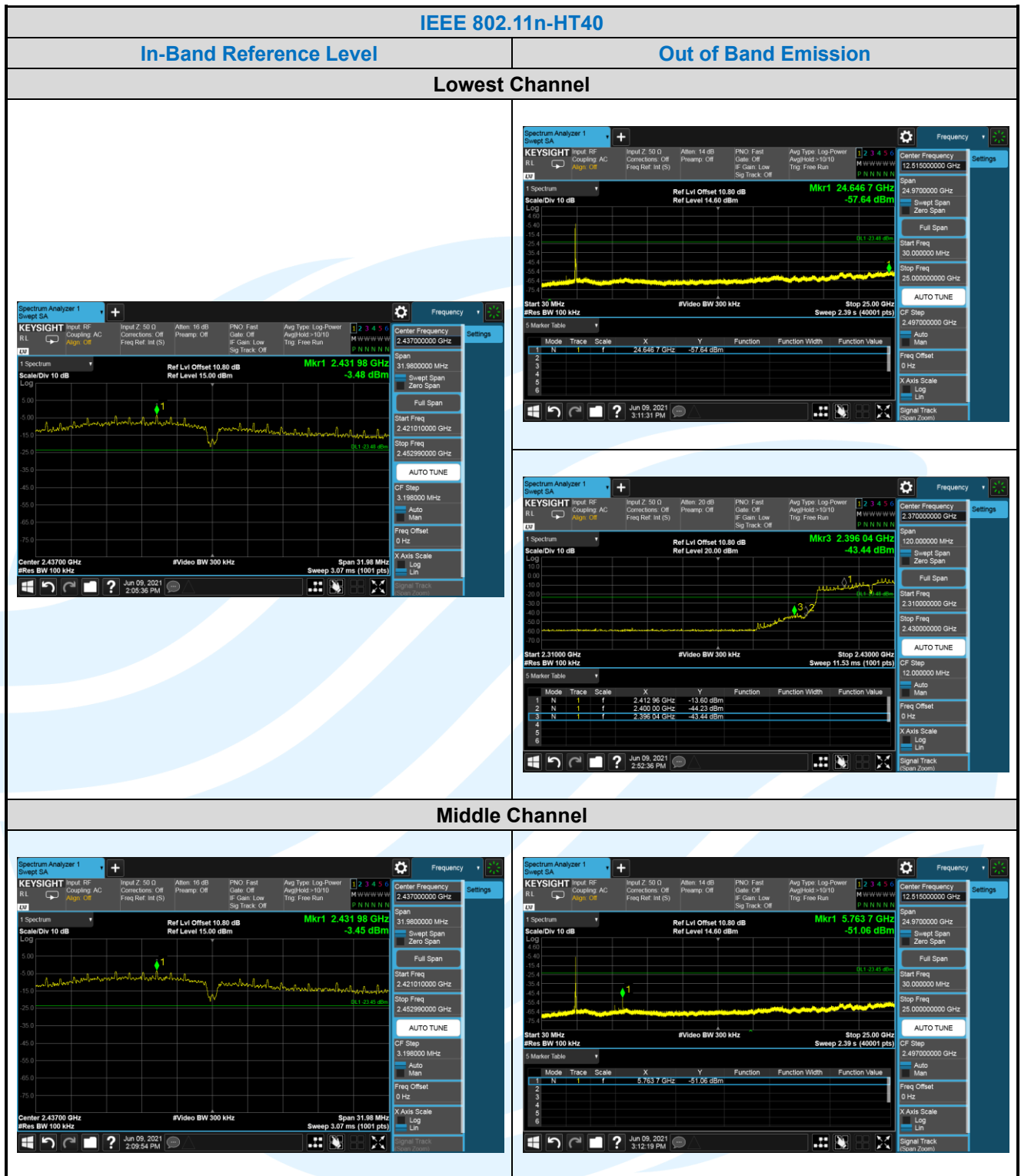
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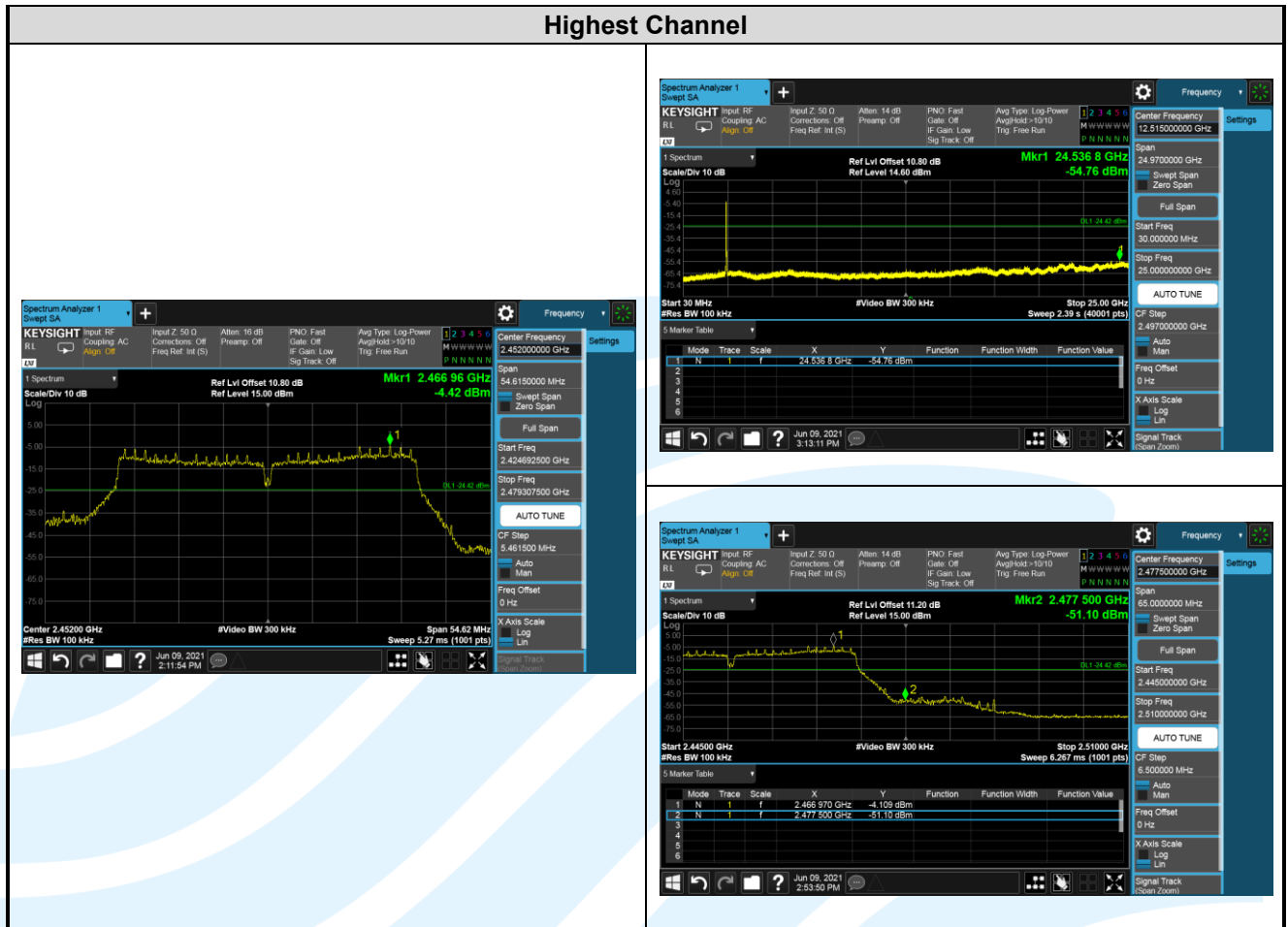
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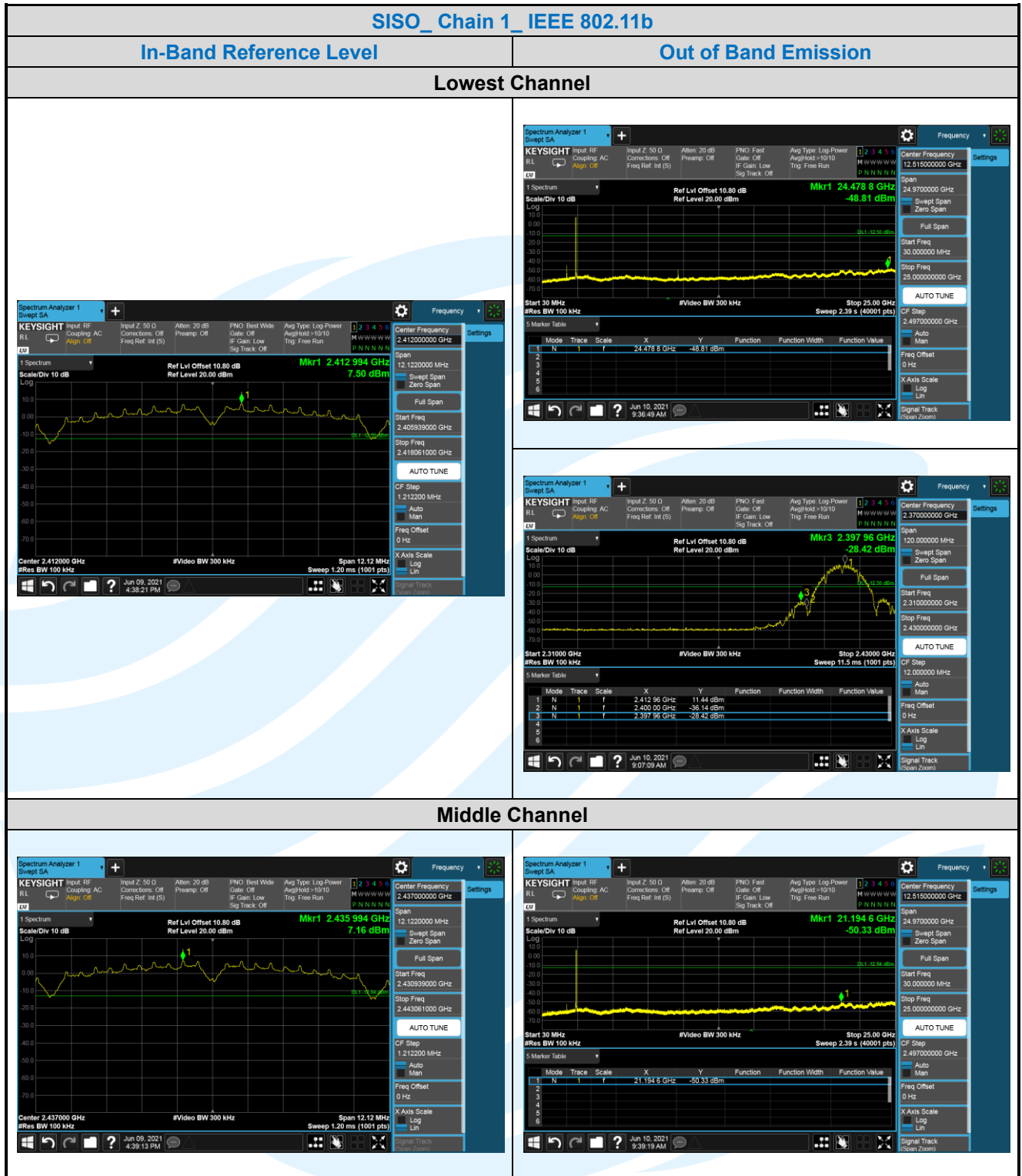
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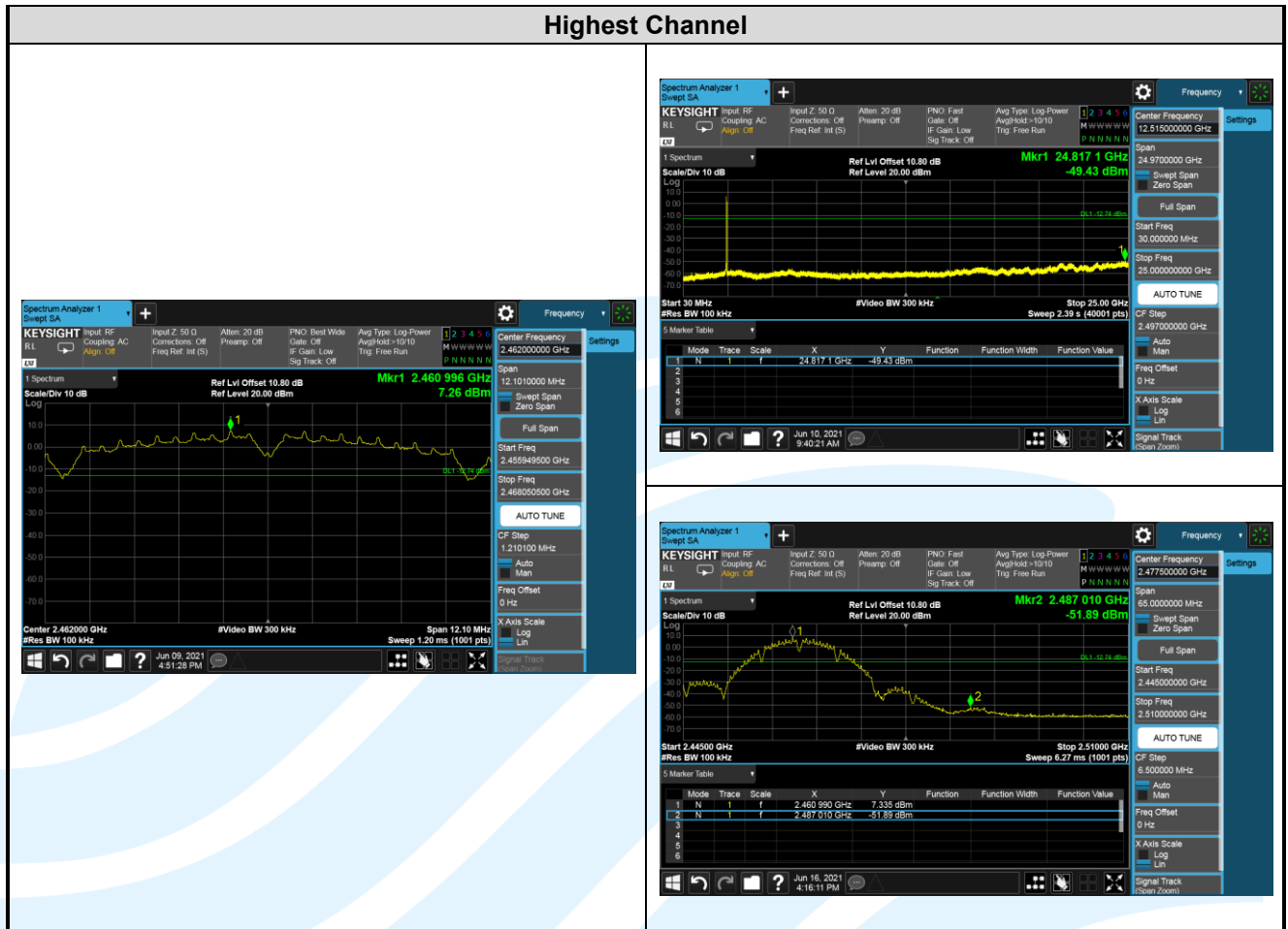
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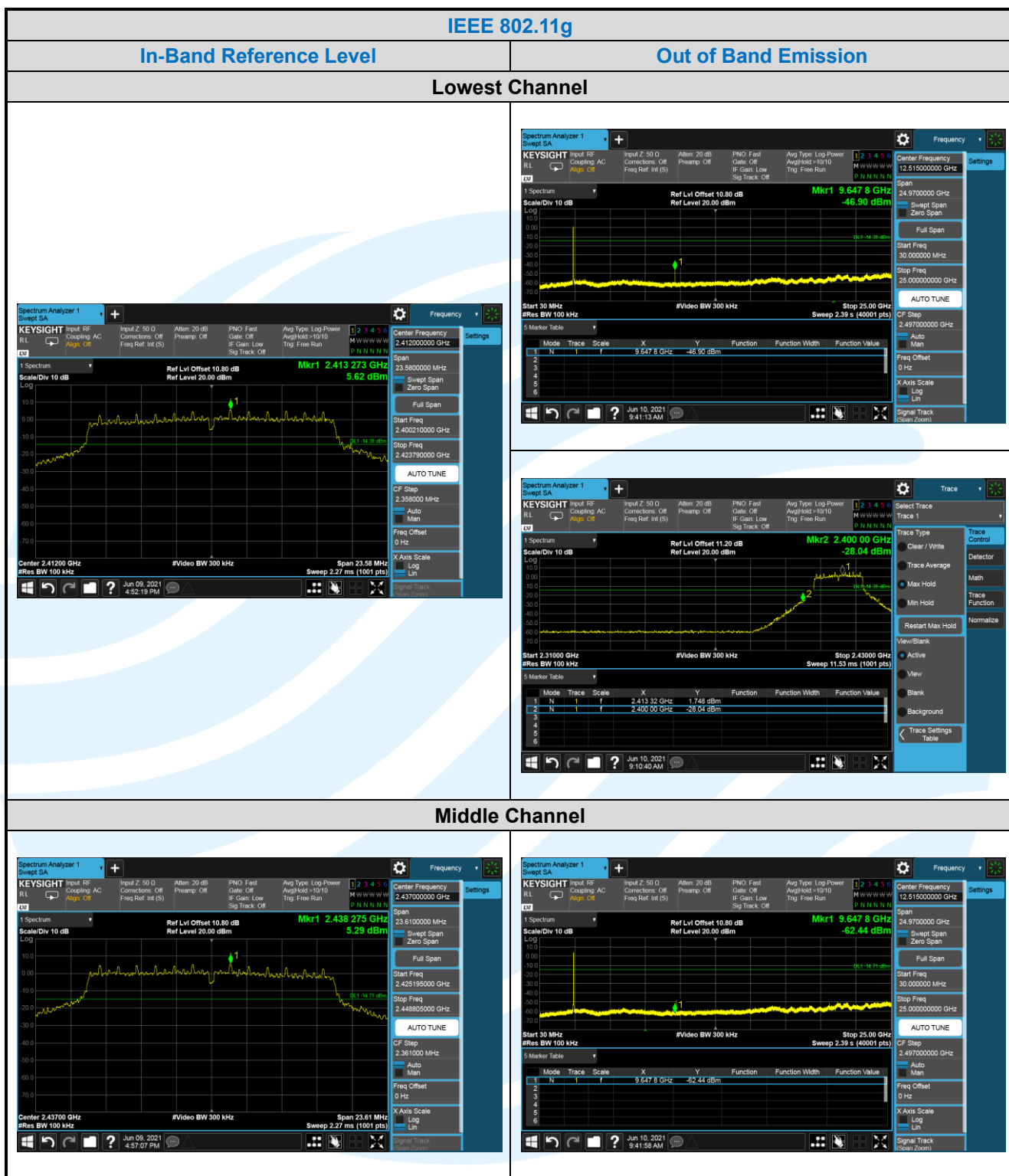
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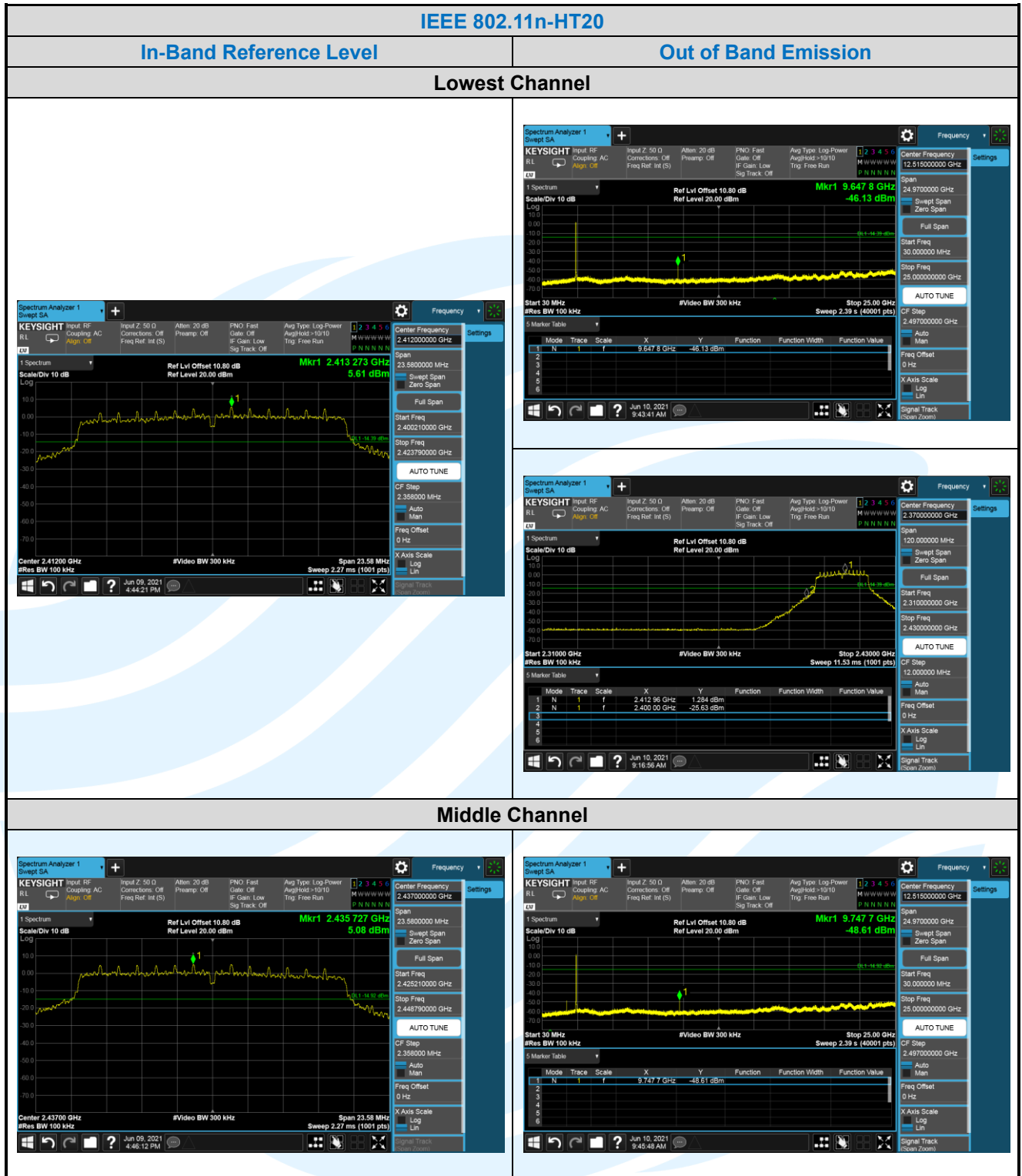
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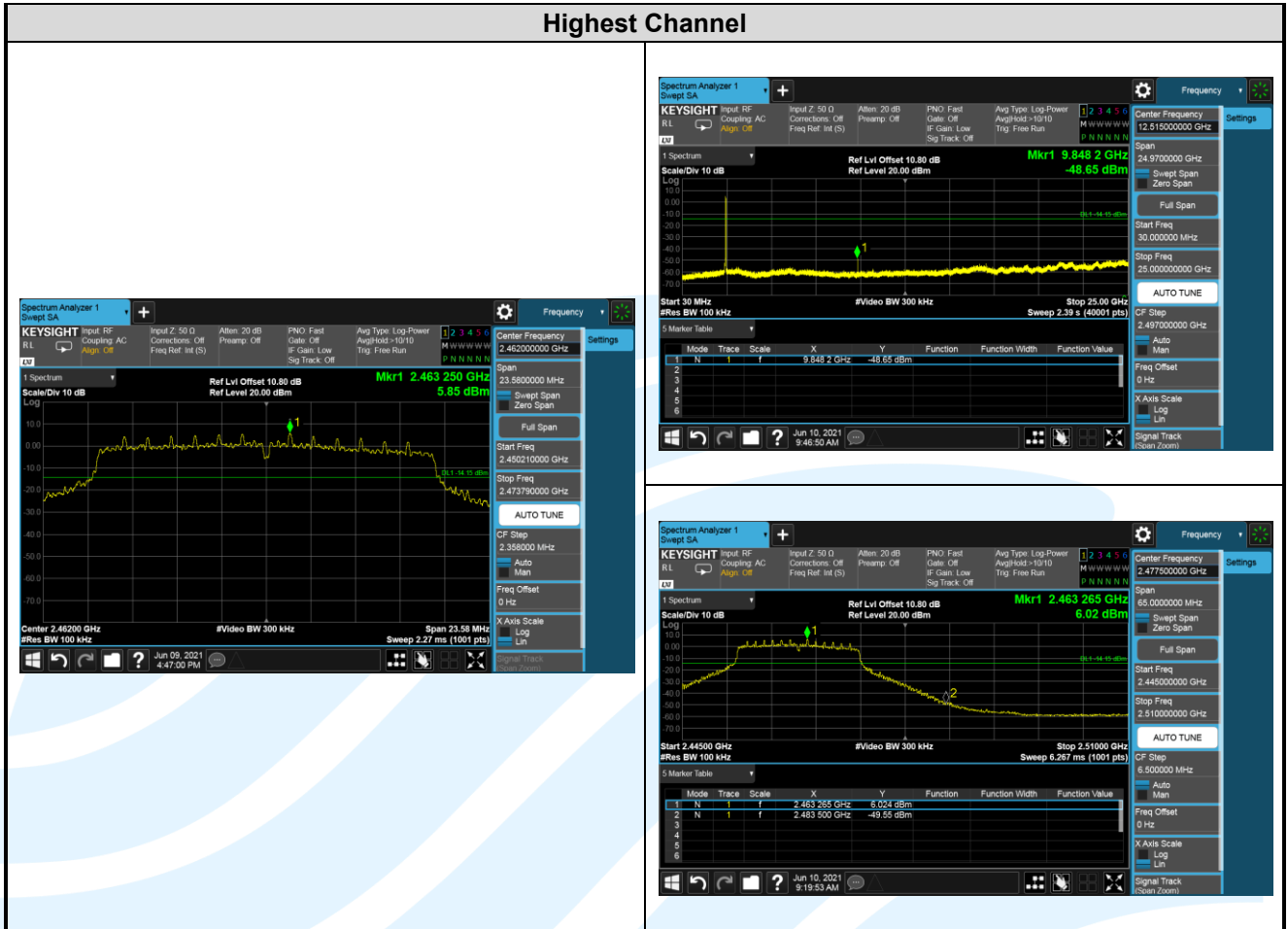
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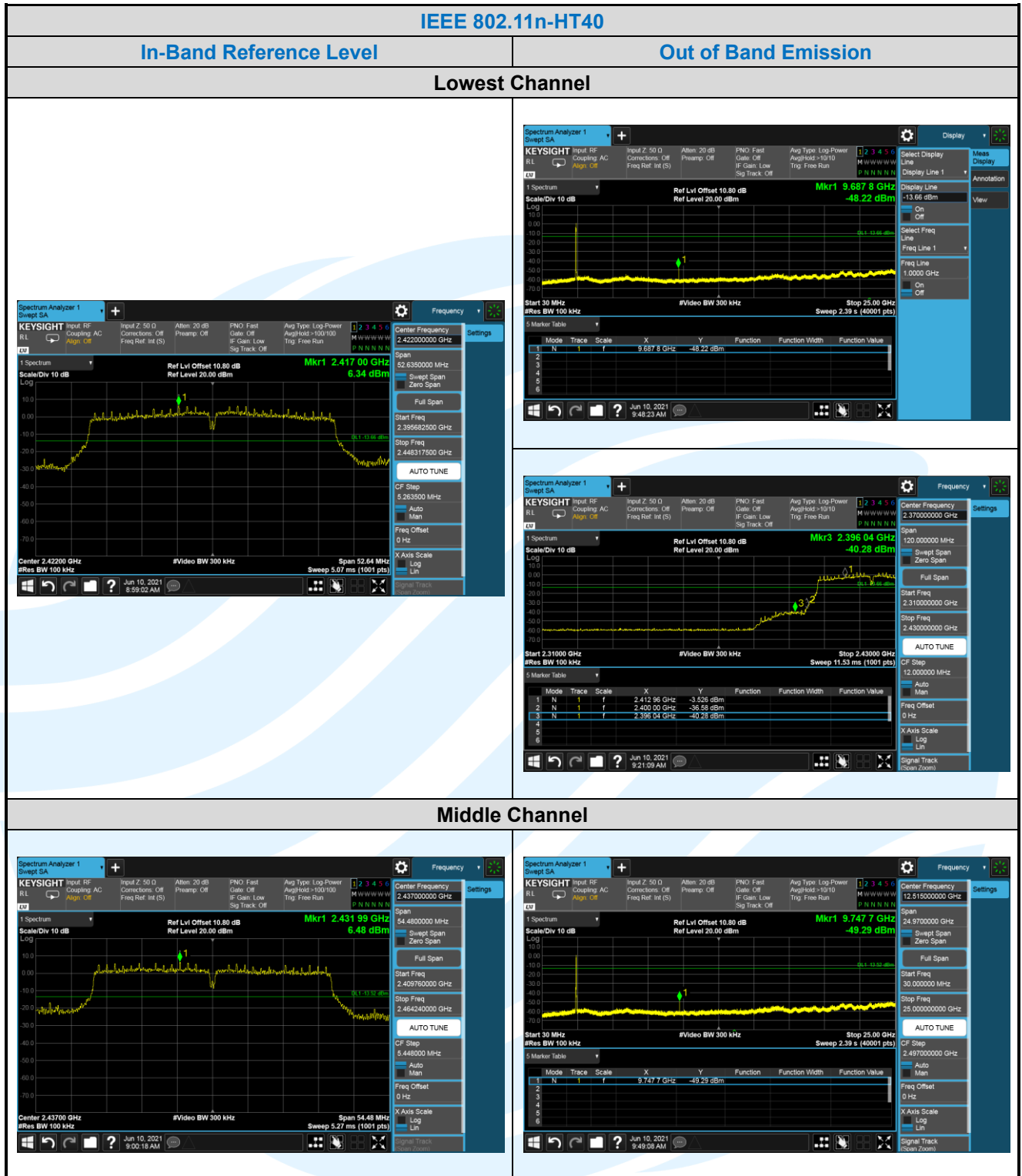
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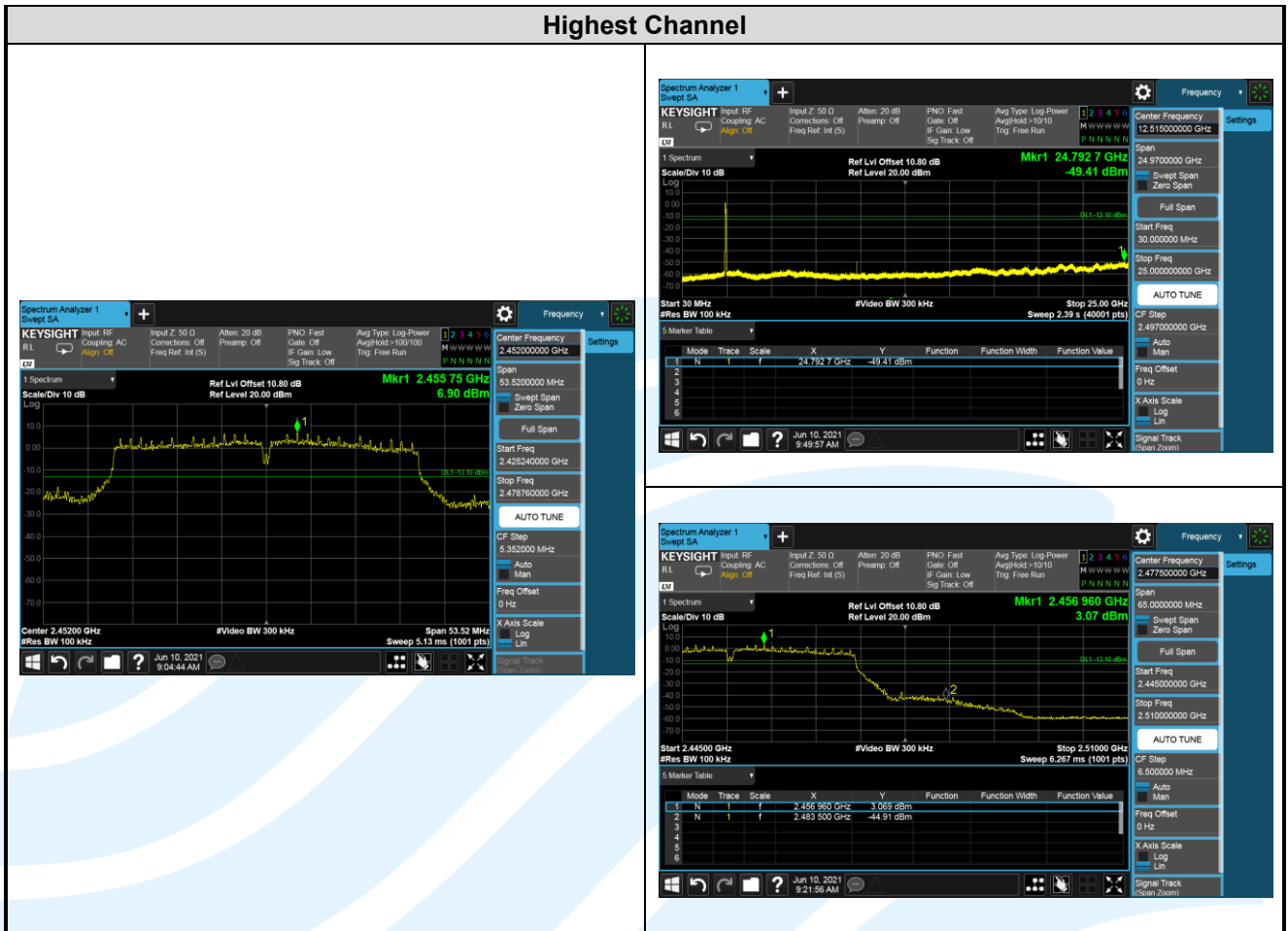
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5.7 RADIATED SPURIOUS EMISSIONS

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.205/15.209

Test Method: ANSI C63.10-2013 Clause 11.11 & Clause 11.12

Receiver Setup:

Frequency	RBW
0.009 MHz-0.150 MHz	200/300 kHz
0.150 MHz -30 MHz	9/10 kHz
30 MHz-1 GHz	100/120 kHz
Above 1 GHz	1 MHz

Limits:

Spurious Emissions

Frequency	Field strength (microvolt/meter)	Limit (dB μ V/m)	Remark	Measurement distance (m)
0.009 MHz-0.490 MHz	2400/F(kHz)	--	--	300
0.490 MHz-1.705 MHz	24000/F(kHz)	--	--	30
1.705 MHz-30 MHz	30	--	--	30
30 MHz-88 MHz	100	40.0	Quasi-peak	3
88 MHz-216 MHz	150	43.5	Quasi-peak	3
216 MHz-960 MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1 GHz	500	54.0	Average	3

Remark:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB μ V/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Test Setup: Refer to section 4.5.1 for details.

Test Procedures:

1. From 30 MHz to 1GHz test procedure as below:

- 1) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

2. Above 1GHz test procedure as below:

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).

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- 2) Test the EUT in the lowest channel ,middle channel, the Highest channel
- 3) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the Y axis positioning which it is worse case.
- 4) Repeat above procedures until all frequencies measured was complete.

Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement data as follows:

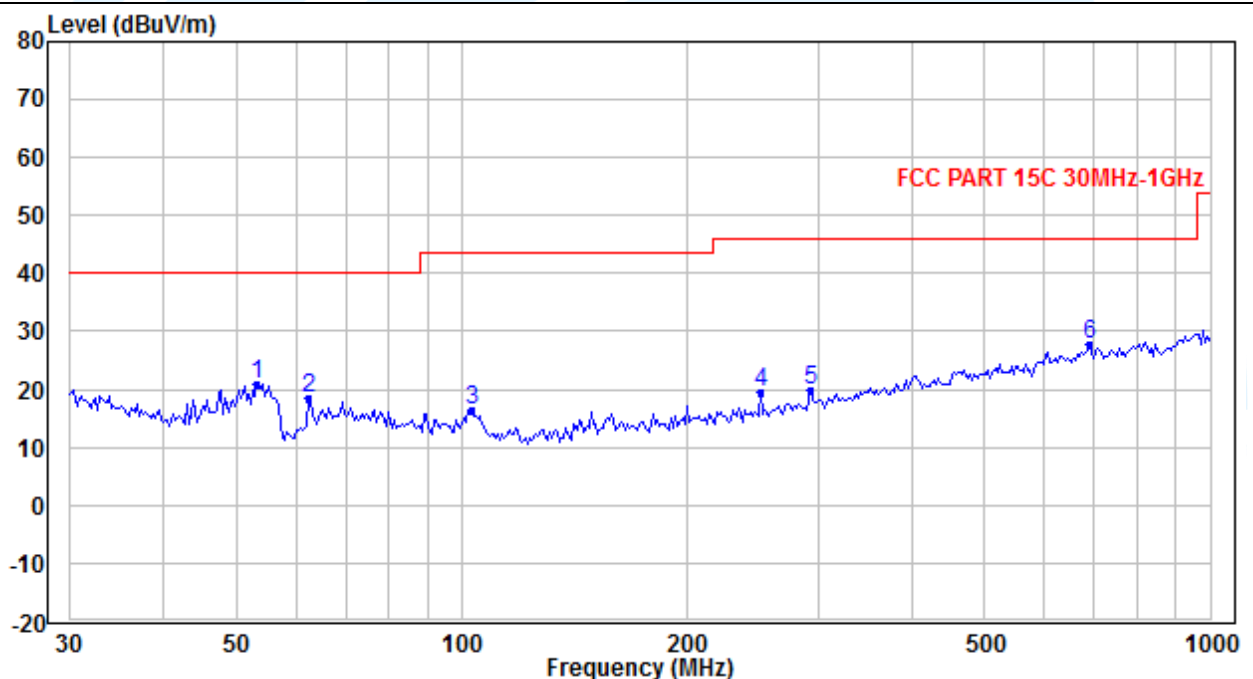
Radiated Emission Test Data (9 KHz ~ 30 MHz):

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

Radiated Emission Test Data (30 MHz ~ 1 GHz):

Worst-Case Configuration

Horizontal



No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	53.379	35.77	-14.71	21.06	40.00	-18.94	QP
2	62.304	33.36	-15.00	18.36	40.00	-21.64	QP
3	103.335	29.22	-12.65	16.57	43.50	-26.93	QP
4	250.486	27.41	-7.75	19.66	46.00	-26.34	QP
5	292.364	26.64	-6.72	19.92	46.00	-26.08	QP
6	689.051	26.22	1.54	27.76	46.00	-18.24	QP

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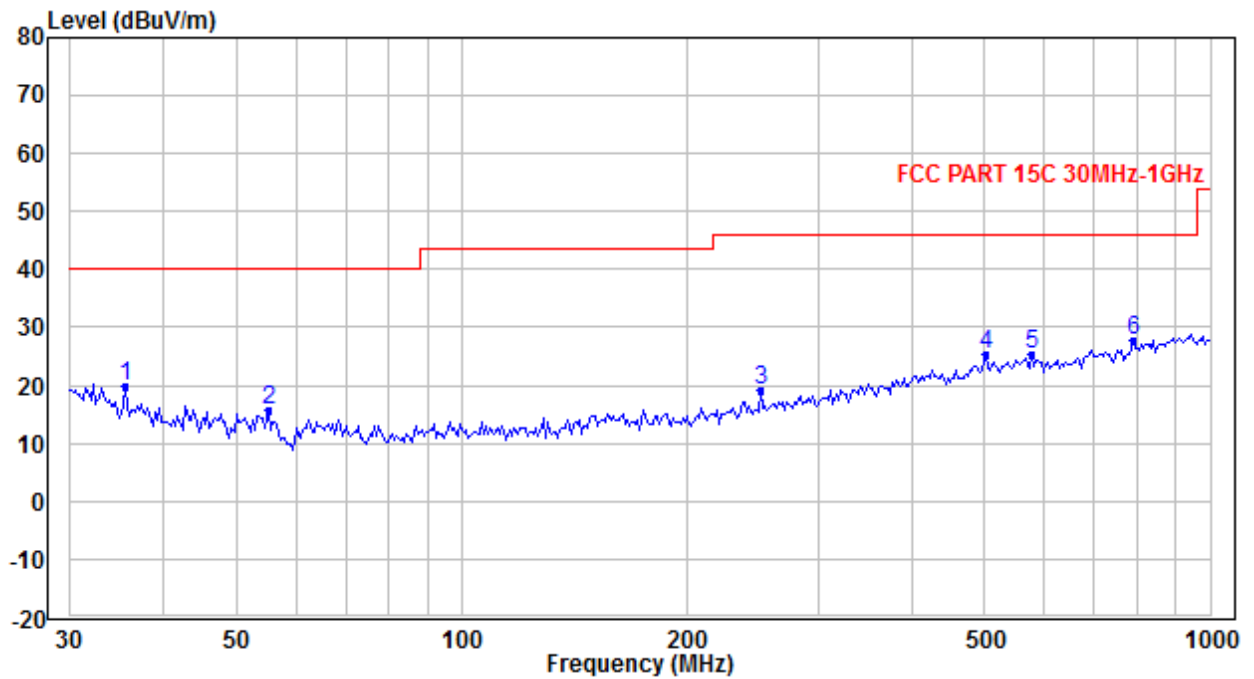
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Vertical



No.	Frequency (MHz)	Reading (dB μ V/m)	Correction factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	35.511	28.54	-8.68	19.86	40.00	-20.14	QP
2	55.288	30.55	-14.78	15.77	40.00	-24.23	QP
3	250.486	26.81	-7.75	19.06	46.00	-26.94	QP
4	502.247	27.21	-2.01	25.20	46.00	-20.80	QP
5	578.036	26.12	-0.71	25.41	46.00	-20.59	QP
6	787.475	26.40	1.27	27.67	46.00	-18.33	QP

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Radiated Emission Test Data (Above 1GHz):
SISO_Chain 0_IEEE 802.11b_Channel 1:

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4824.00	40.94	-2.33	38.61	74.00	-35.39	Peak	Horizontal
2	4824.00	30.47	-2.33	28.14	54.00	-25.86	Average	Horizontal
3	7236.00	40.73	1.47	42.20	74.00	-31.80	Peak	Horizontal
4	7236.00	30.22	1.47	31.69	54.00	-22.31	Average	Horizontal
5	4824.00	41.26	-2.33	38.93	74.00	-35.07	Peak	Vertical
6	4824.00	31.41	-2.33	29.08	54.00	-24.92	Average	Vertical
7	7236.00	40.73	1.47	42.20	74.00	-31.80	Peak	Vertical
8	7236.00	30.03	1.47	31.50	54.00	-22.50	Average	Vertical

SISO_Chain 0_IEEE 802.11b_Channel 6:

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4874.00	41.36	-2.29	39.07	74.00	-34.93	Peak	Horizontal
2	4874.00	29.95	-2.29	27.66	54.00	-26.34	Average	Horizontal
3	7311.00	42.88	1.60	44.48	74.00	-29.52	Peak	Horizontal
4	7311.00	31.41	1.60	33.01	54.00	-20.99	Average	Horizontal
5	4874.00	41.28	-2.29	38.99	74.00	-35.01	Peak	Vertical
6	4874.00	30.13	-2.29	27.84	54.00	-26.16	Average	Vertical
7	7311.00	42.32	1.60	43.92	74.00	-30.08	Peak	Vertical
8	7311.00	29.26	1.60	30.86	54.00	-23.14	Average	Vertical

SISO_Chain 0_IEEE 802.11b_Channel 11:

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4924.00	42.75	-2.26	40.49	74.00	-33.51	Peak	Horizontal
2	4924.00	28.34	-2.26	26.08	54.00	-27.92	Average	Horizontal
3	7386.00	43.33	1.72	45.05	74.00	-28.95	Peak	Horizontal
4	7386.00	29.62	1.72	31.34	54.00	-22.66	Average	Horizontal
5	4924.00	39.93	-2.26	37.67	74.00	-36.33	Peak	Vertical
6	4924.00	31.45	-2.26	29.19	54.00	-24.81	Average	Vertical
7	7386.00	41.73	1.72	43.45	74.00	-30.55	Peak	Vertical
8	7386.00	29.66	1.72	31.38	54.00	-22.62	Average	Vertical

SISO_Chain 1_ IEEE 802.11b_ Channel 1:

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4824.00	41.96	-2.33	39.63	74.00	-34.37	Peak	Horizontal
2	4824.00	31.52	-2.33	29.19	54.00	-24.81	Average	Horizontal
3	7236.00	41.58	1.47	43.05	74.00	-30.95	Peak	Horizontal
4	7236.00	30.03	1.47	31.50	54.00	-22.50	Average	Horizontal
5	4824.00	42.51	-2.33	40.18	74.00	-33.82	Peak	Vertical
6	4824.00	30.41	-2.33	28.08	54.00	-25.92	Average	Vertical
7	7236.00	41.53	1.47	43.00	74.00	-31.00	Peak	Vertical
8	7236.00	29.90	1.47	31.37	54.00	-22.63	Average	Vertical

SISO_Chain 1_ IEEE 802.11b_ Channel 6:

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4874.00	40.98	-2.29	38.69	74.00	-35.31	Peak	Horizontal
2	4874.00	29.95	-2.29	27.66	54.00	-26.34	Average	Horizontal
3	7311.00	40.59	1.60	42.19	74.00	-31.81	Peak	Horizontal
4	7311.00	30.36	1.60	31.96	54.00	-22.04	Average	Horizontal
5	4874.00	42.49	-2.29	40.20	74.00	-33.80	Peak	Vertical
6	4874.00	29.86	-2.29	27.57	54.00	-26.43	Average	Vertical
7	7311.00	42.60	1.60	44.20	74.00	-29.80	Peak	Vertical
8	7311.00	31.16	1.60	32.76	54.00	-21.24	Average	Vertical

SISO_Chain 1_ IEEE 802.11b_ Channel 11:

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4924.00	41.18	-2.26	38.92	74.00	-35.08	Peak	Horizontal
2	4924.00	30.29	-2.26	28.03	54.00	-25.97	Average	Horizontal
3	7386.00	43.09	1.72	44.81	74.00	-29.19	Peak	Horizontal
4	7386.00	29.62	1.72	31.34	54.00	-22.66	Average	Horizontal
5	4924.00	41.76	-2.26	39.50	74.00	-34.50	Peak	Vertical
6	4924.00	31.23	-2.26	28.97	54.00	-25.03	Average	Vertical
7	7386.00	41.16	1.72	42.88	74.00	-31.12	Peak	Vertical
8	7386.00	29.66	1.72	31.38	54.00	-22.62	Average	Vertical

SISO_Chain 0_ IEEE 802.11g_ Channel 1:

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4824.00	40.79	-2.33	38.46	74.00	-35.54	Peak	Horizontal
2	4824.00	30.63	-2.33	28.30	54.00	-25.70	Average	Horizontal
3	7236.00	40.81	1.47	42.28	74.00	-31.72	Peak	Horizontal
4	7236.00	30.08	1.47	31.55	54.00	-22.45	Average	Horizontal
5	4824.00	42.09	-2.33	39.76	74.00	-34.24	Peak	Vertical
6	4824.00	31.36	-2.33	29.03	54.00	-24.97	Average	Vertical
7	7236.00	40.35	1.47	41.82	74.00	-32.18	Peak	Vertical
8	7236.00	29.90	1.47	31.37	54.00	-22.63	Average	Vertical

SISO_Chain 0_ IEEE 802.11g_ Channel 6:

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4874.00	40.04	-2.29	37.75	74.00	-36.25	Peak	Horizontal
2	4874.00	29.90	-2.29	27.61	54.00	-26.39	Average	Horizontal
3	7311.00	40.41	1.60	42.01	74.00	-31.99	Peak	Horizontal
4	7311.00	29.16	1.60	30.76	54.00	-23.24	Average	Horizontal
5	4874.00	40.68	-2.29	38.39	74.00	-35.61	Peak	Vertical
6	4874.00	30.08	-2.29	27.79	54.00	-26.21	Average	Vertical
7	7311.00	42.09	1.60	43.69	74.00	-30.31	Peak	Vertical
8	7311.00	29.21	1.60	30.81	54.00	-23.19	Average	Vertical

SISO_Chain 0_ IEEE 802.11g_ Channel 11:

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4924.00	40.16	-2.26	37.90	74.00	-36.10	Peak	Horizontal
2	4924.00	28.40	-2.26	26.14	54.00	-27.86	Average	Horizontal
3	7386.00	41.77	1.72	43.49	74.00	-30.51	Peak	Horizontal
4	7386.00	29.81	1.72	31.53	54.00	-22.47	Average	Horizontal
5	4924.00	39.09	-2.26	36.83	74.00	-37.17	Peak	Vertical
6	4924.00	28.61	-2.26	26.35	54.00	-27.65	Average	Vertical
7	7386.00	42.32	1.72	44.04	74.00	-29.96	Peak	Vertical
8	7386.00	29.71	1.72	31.43	54.00	-22.57	Average	Vertical

SISO_Chain 1_ IEEE 802.11g_ Channel 1:

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4824.00	40.34	-2.33	38.01	74.00	-35.99	Peak	Horizontal
2	4824.00	31.36	-2.33	29.03	54.00	-24.97	Average	Horizontal
3	7236.00	41.14	1.47	42.61	74.00	-31.39	Peak	Horizontal
4	7236.00	29.90	1.47	31.37	54.00	-22.63	Average	Horizontal
5	4824.00	40.19	-2.33	37.86	74.00	-36.14	Peak	Vertical
6	4824.00	30.13	-2.33	27.80	54.00	-26.20	Average	Vertical
7	7236.00	40.01	1.47	41.48	74.00	-32.52	Peak	Vertical
8	7236.00	29.90	1.47	31.37	54.00	-22.63	Average	Vertical

SISO_Chain 1_ IEEE 802.11g_ Channel 6:

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4874.00	41.85	-2.29	39.56	74.00	-34.44	Peak	Horizontal
2	4874.00	29.76	-2.29	27.47	54.00	-26.53	Average	Horizontal
3	7311.00	42.08	1.60	43.68	74.00	-30.32	Peak	Horizontal
4	7311.00	29.16	1.60	30.76	54.00	-23.24	Average	Horizontal
5	4874.00	40.53	-2.29	38.24	74.00	-35.76	Peak	Vertical
6	4874.00	29.48	-2.29	27.19	54.00	-26.81	Average	Vertical
7	7311.00	42.23	1.60	43.83	74.00	-30.17	Peak	Vertical
8	7311.00	29.11	1.60	30.71	54.00	-23.29	Average	Vertical

SISO_Chain 1_ IEEE 802.11g_ Channel 11:

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4924.00	41.65	-2.26	39.39	74.00	-34.61	Peak	Horizontal
2	4924.00	31.34	-2.26	29.08	54.00	-24.92	Average	Horizontal
3	7386.00	40.04	1.72	41.76	74.00	-32.24	Peak	Horizontal
4	7386.00	30.57	1.72	32.29	54.00	-21.71	Average	Horizontal
5	4924.00	40.74	-2.26	38.48	74.00	-35.52	Peak	Vertical
6	4924.00	31.17	-2.26	28.91	54.00	-25.09	Average	Vertical
7	7386.00	41.73	1.72	43.45	74.00	-30.55	Peak	Vertical
8	7386.00	29.66	1.72	31.38	54.00	-22.62	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 1:

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4824.00	42.12	-2.33	39.79	74.00	-34.21	Peak	Horizontal
2	4824.00	31.58	-2.33	29.25	54.00	-24.75	Average	Horizontal
3	7236.00	42.35	1.47	43.82	74.00	-30.18	Peak	Horizontal
4	7236.00	30.08	1.47	31.55	54.00	-22.45	Average	Horizontal
5	4824.00	41.56	-2.33	39.23	74.00	-34.77	Peak	Vertical
6	4824.00	31.52	-2.33	29.19	54.00	-24.81	Average	Vertical
7	7236.00	41.47	1.47	42.94	74.00	-31.06	Peak	Vertical
8	7236.00	30.03	1.47	31.50	54.00	-22.50	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 6:

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4874.00	43.26	-2.29	40.97	74.00	-33.03	Peak	Horizontal
2	4874.00	29.99	-2.29	27.70	54.00	-26.30	Average	Horizontal
3	7311.00	43.19	1.60	44.79	74.00	-29.21	Peak	Horizontal
4	7311.00	31.31	1.60	32.91	54.00	-21.09	Average	Horizontal
5	4874.00	43.82	-2.29	41.53	74.00	-32.47	Peak	Vertical
6	4874.00	30.13	-2.29	27.84	54.00	-26.16	Average	Vertical
7	7311.00	40.92	1.60	42.52	74.00	-31.48	Peak	Vertical
8	7311.00	31.36	1.60	32.96	54.00	-21.04	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 11:

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4924.00	41.81	-2.26	39.55	74.00	-34.45	Peak	Horizontal
2	4924.00	31.51	-2.26	29.25	54.00	-24.75	Average	Horizontal
3	7386.00	41.65	1.72	43.37	74.00	-30.63	Peak	Horizontal
4	7386.00	29.85	1.72	31.57	54.00	-22.43	Average	Horizontal
5	4924.00	42.04	-2.26	39.78	74.00	-34.22	Peak	Vertical
6	4924.00	30.61	-2.26	28.35	54.00	-25.65	Average	Vertical
7	7386.00	42.62	1.72	44.34	74.00	-29.66	Peak	Vertical
8	7386.00	29.81	1.72	31.53	54.00	-22.47	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT40_Channel 3:

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4844.00	42.65	-2.32	40.33	74.00	-33.67	Peak	Horizontal
2	4844.00	31.57	-2.32	29.25	54.00	-24.75	Average	Horizontal
3	7266.00	43.32	1.52	44.84	74.00	-29.16	Peak	Horizontal
4	7266.00	30.08	1.52	31.60	54.00	-22.40	Average	Horizontal
5	4844.00	42.70	-2.32	40.38	74.00	-33.62	Peak	Vertical
6	4844.00	31.62	-2.32	29.30	54.00	-24.70	Average	Vertical
7	7266.00	42.97	1.52	44.49	74.00	-29.51	Peak	Vertical
8	7266.00	29.94	1.52	31.46	54.00	-22.54	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT40_Channel 6:

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4874.00	40.24	-2.29	37.95	74.00	-36.05	Peak	Horizontal
2	4874.00	29.81	-2.29	27.52	54.00	-26.48	Average	Horizontal
3	7311.00	42.98	1.60	44.58	74.00	-29.42	Peak	Horizontal
4	7311.00	31.31	1.60	32.91	54.00	-21.09	Average	Horizontal
5	4874.00	42.99	-2.29	40.70	74.00	-33.30	Peak	Vertical
6	4874.00	30.08	-2.29	27.79	54.00	-26.21	Average	Vertical
7	7311.00	42.61	1.60	44.21	74.00	-29.79	Peak	Vertical
8	7311.00	31.21	1.60	32.81	54.00	-21.19	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT40_Channel 9:

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4904.00	42.11	-2.28	39.83	74.00	-34.17	Peak	Horizontal
2	4904.00	31.42	-2.28	29.14	54.00	-24.86	Average	Horizontal
3	7356.00	42.19	1.67	43.86	74.00	-30.14	Peak	Horizontal
4	7356.00	29.67	1.67	31.34	54.00	-22.66	Average	Horizontal
5	4904.00	42.21	-2.28	39.93	74.00	-34.07	Peak	Vertical
6	4904.00	34.74	-2.28	29.25	54.00	-24.75	Average	Vertical
7	7356.00	41.65	1.67	43.32	74.00	-30.68	Peak	Vertical
8	7356.00	29.71	1.67	31.38	54.00	-22.62	Average	Vertical

Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result – Limit

5.8 BAND EDGE MEASUREMENTS (RADIATED)

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.205/15.209

Test Method: ANSI C63.10-2013 Clause 11.13

Limits:

Radiated emissions which fall in the restricted bands, as defined in section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a).

Frequency	Limit (dB μ V/m @3m)	Remark
30 MHz-88 MHz	40.0	Quasi-peak Value
88 MHz-216 MHz	43.5	Quasi-peak Value
216 MHz-960 MHz	46.0	Quasi-peak Value
960 MHz-1 GHz	54.0	Quasi-peak Value
Above 1 GHz	54.0	Average Value
	74.0	Peak Value

Test Setup: Refer to section 4.5.1 for details.

Test Procedures:

Radiated band edge measurements at 2390 MHz and 2483.5 MHz were made with the unit transmitting in the low end of the channel range and the high end closest to the restricted bands respectively. The emissions were made on the 966 Semi-Chamber. Use (resolution bandwidth (RBW) = 1 MHz, video bandwidth (VBW) = 3 MHz for peak levels and RBW = 1 MHz and VBW = 10 Hz or 1/T for average levels).

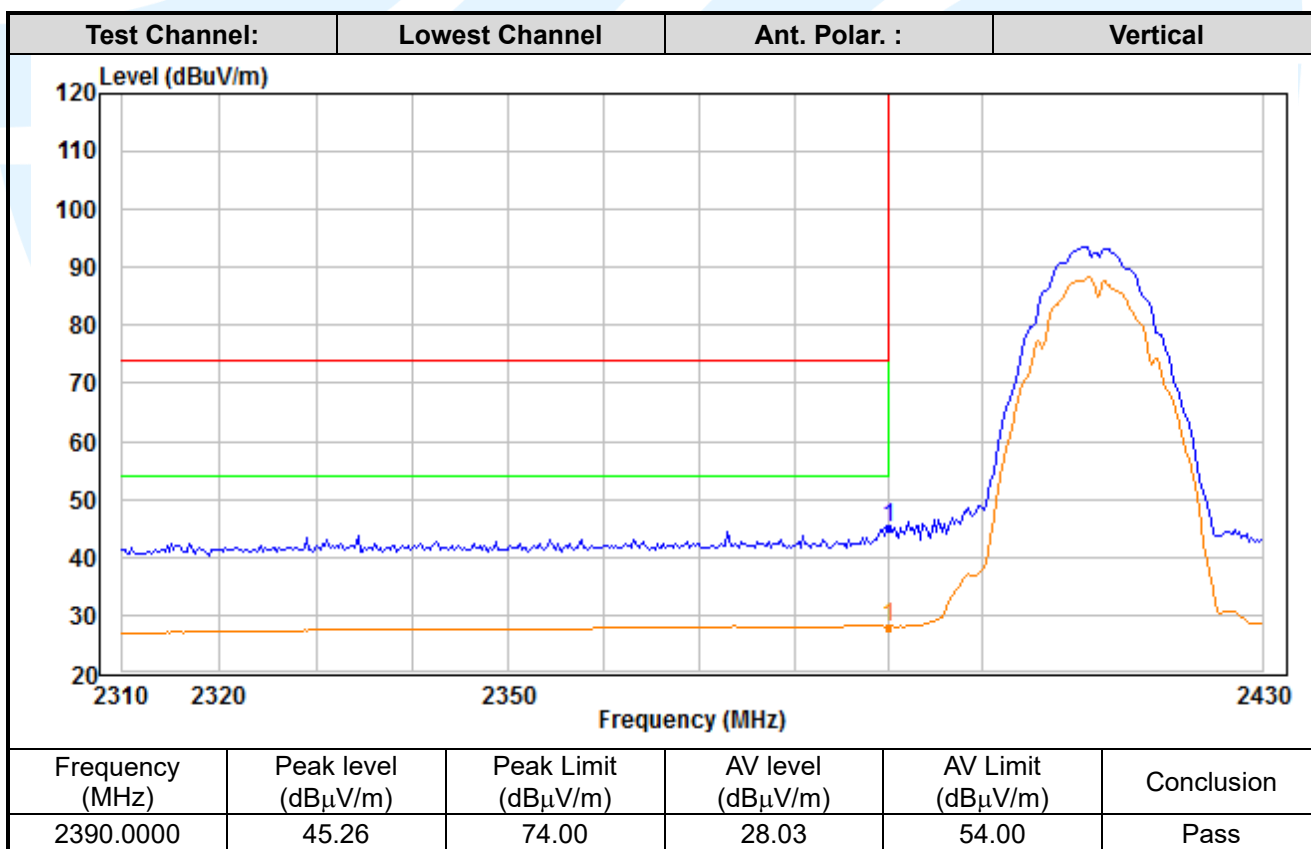
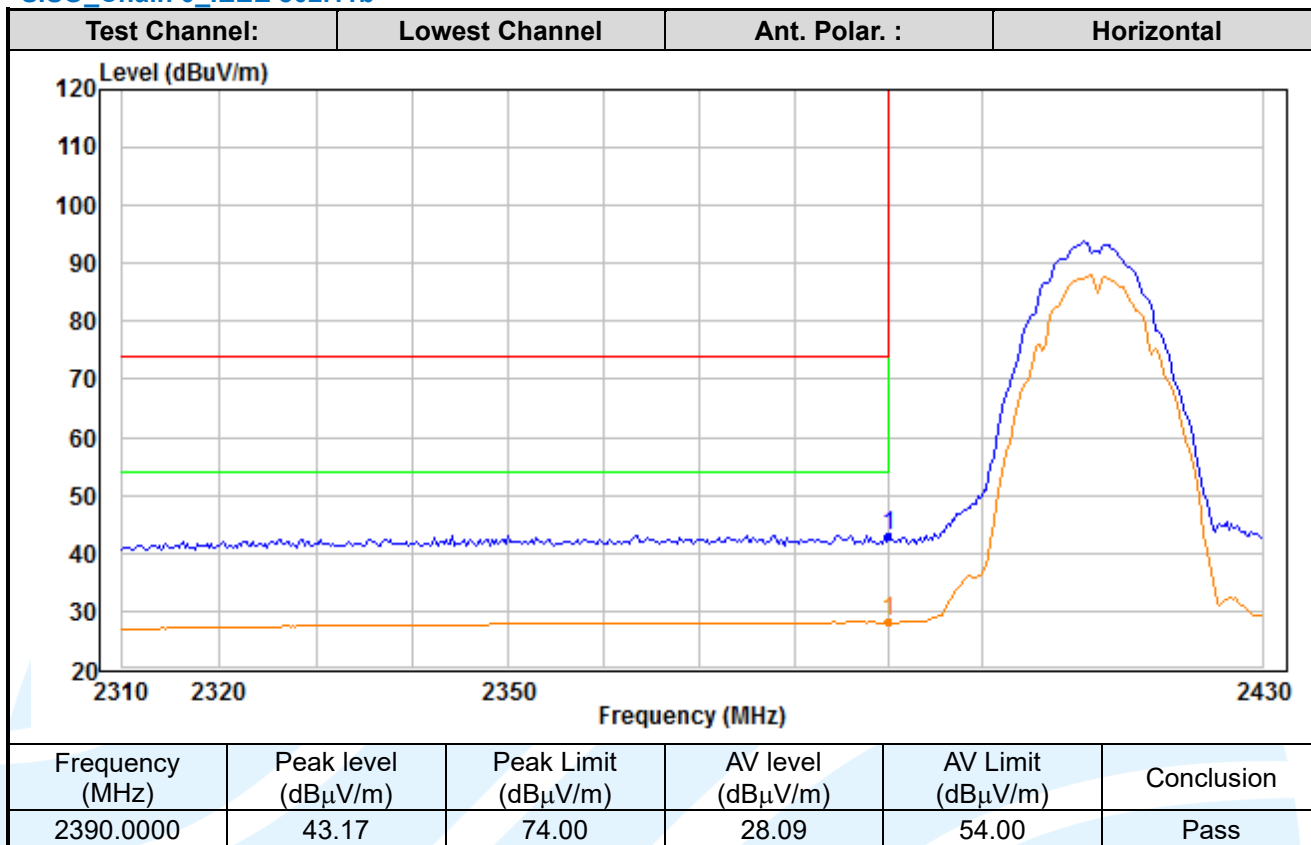
1. Use radiated spurious emission test procedure described in clause 5.10. The transmitter output (antenna port) was connected to the test receiver.
2. Set the PK and AV limit line.
3. Record the fundamental emission and emissions out of the band-edge.
4. Determine band-edge compliance as required.

Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement data as follows:

SISO_Chain 0_IEEE 802.11b



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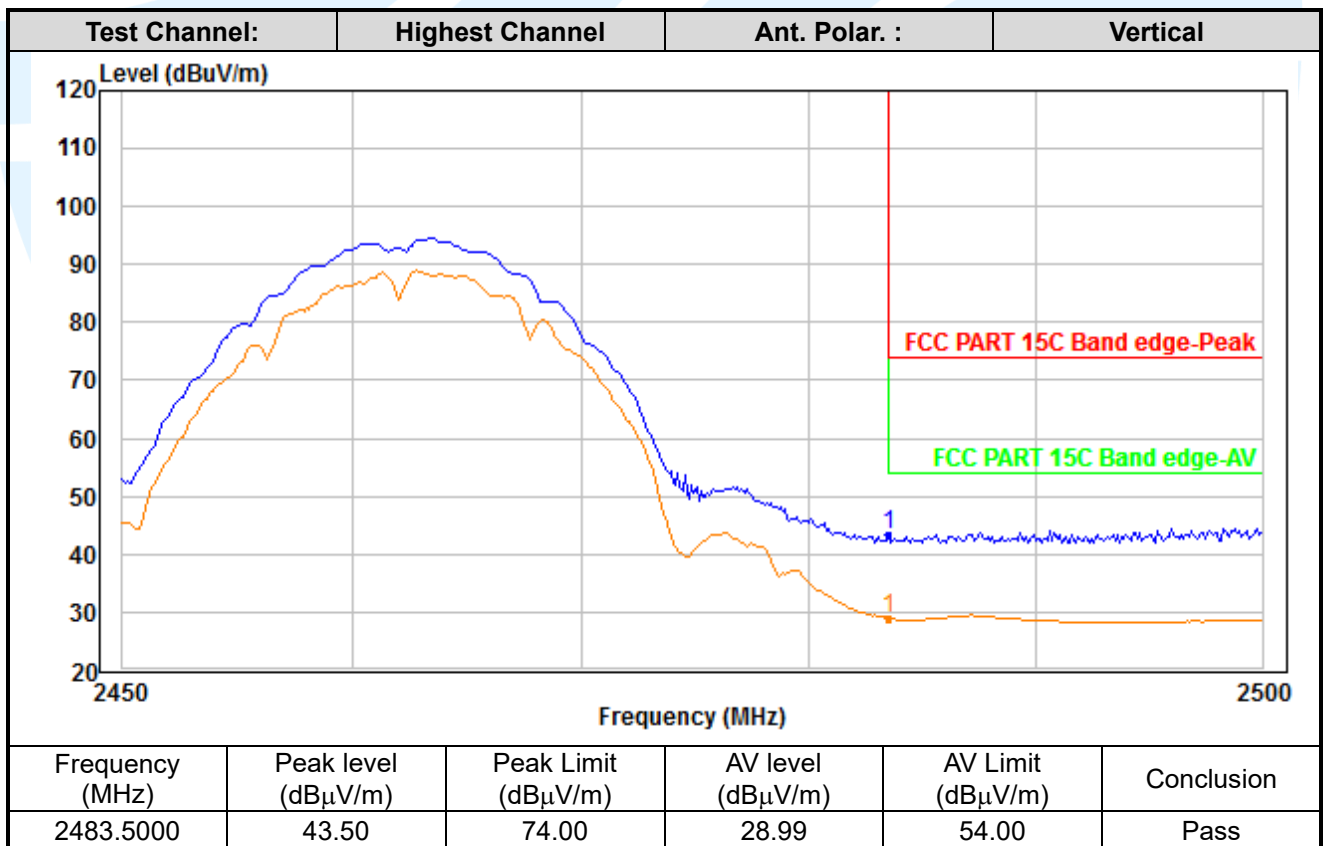
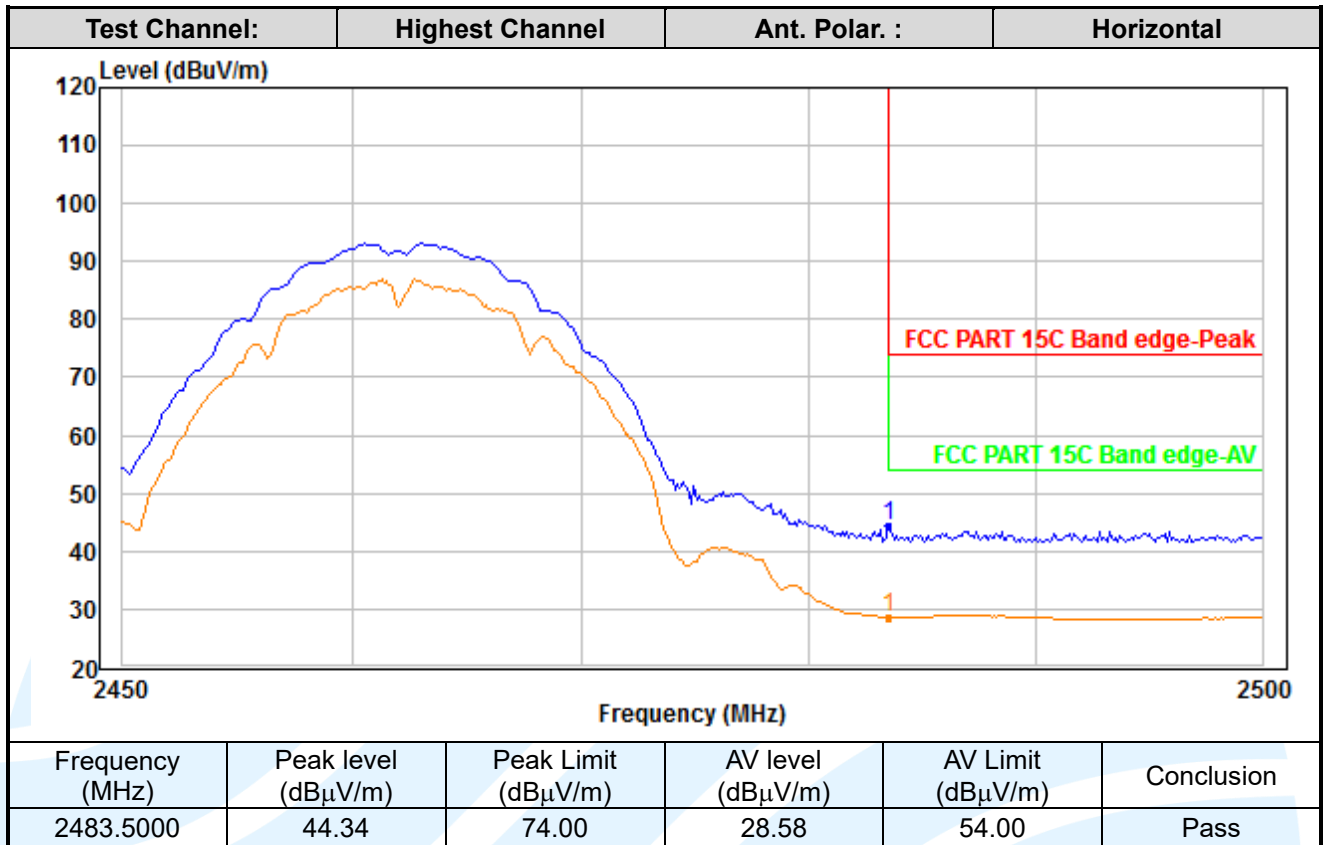
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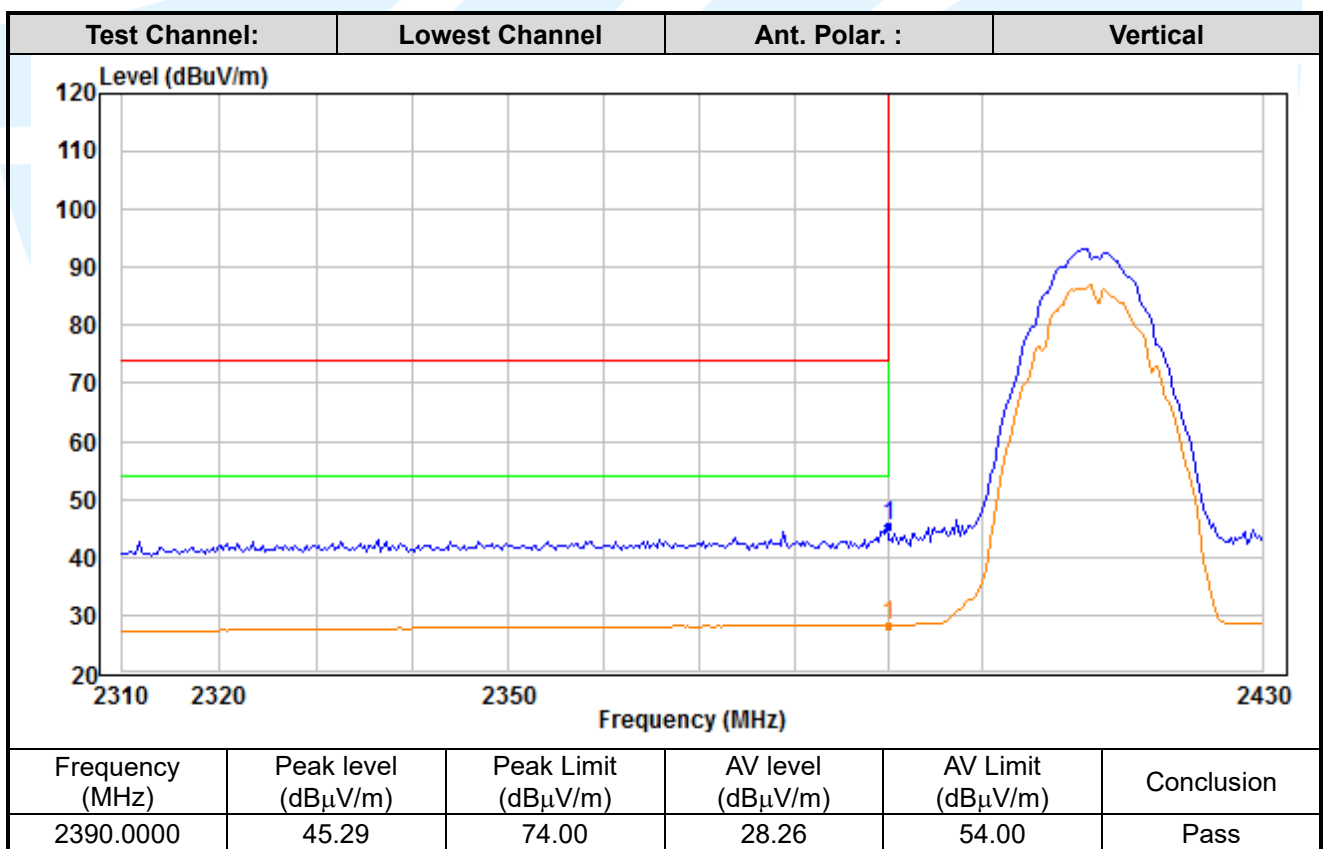
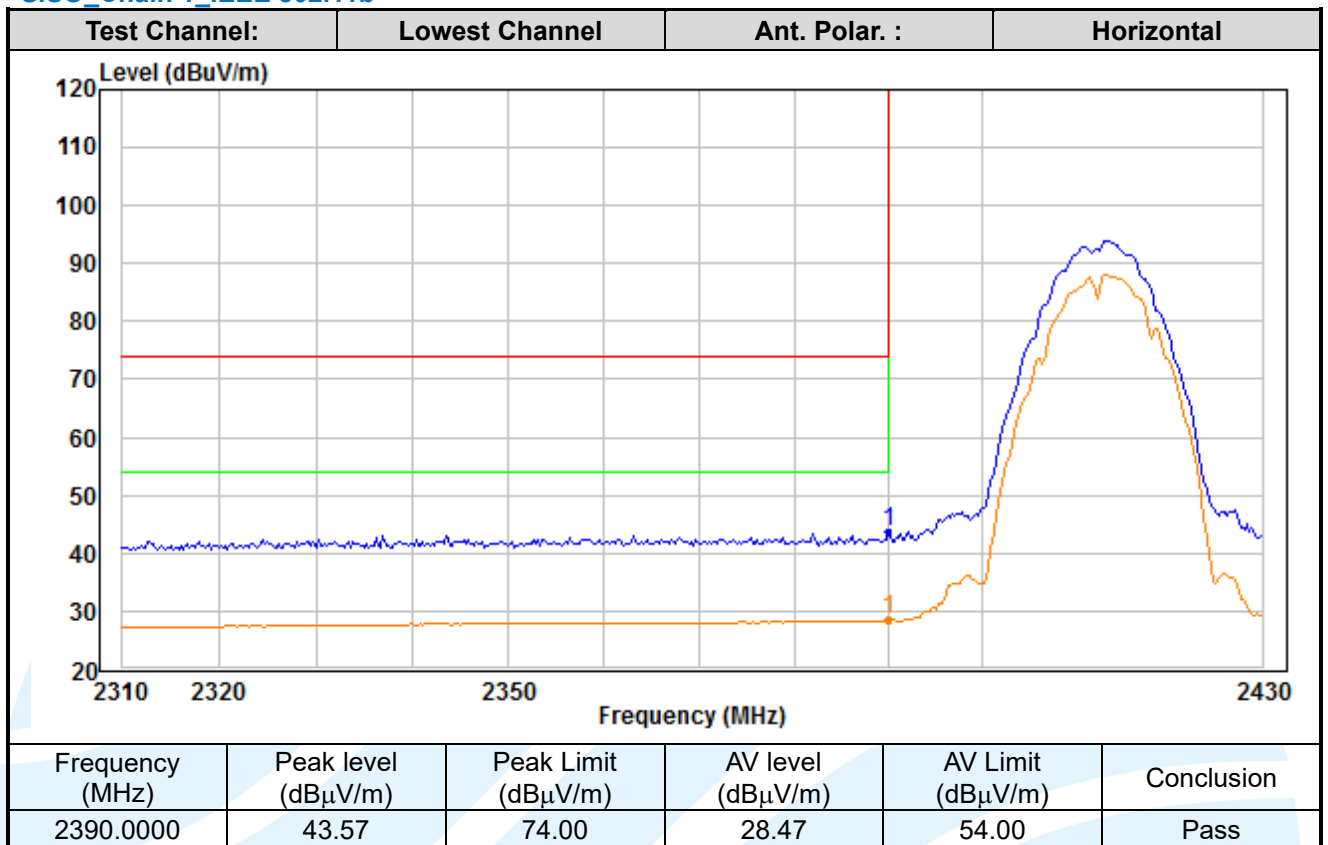
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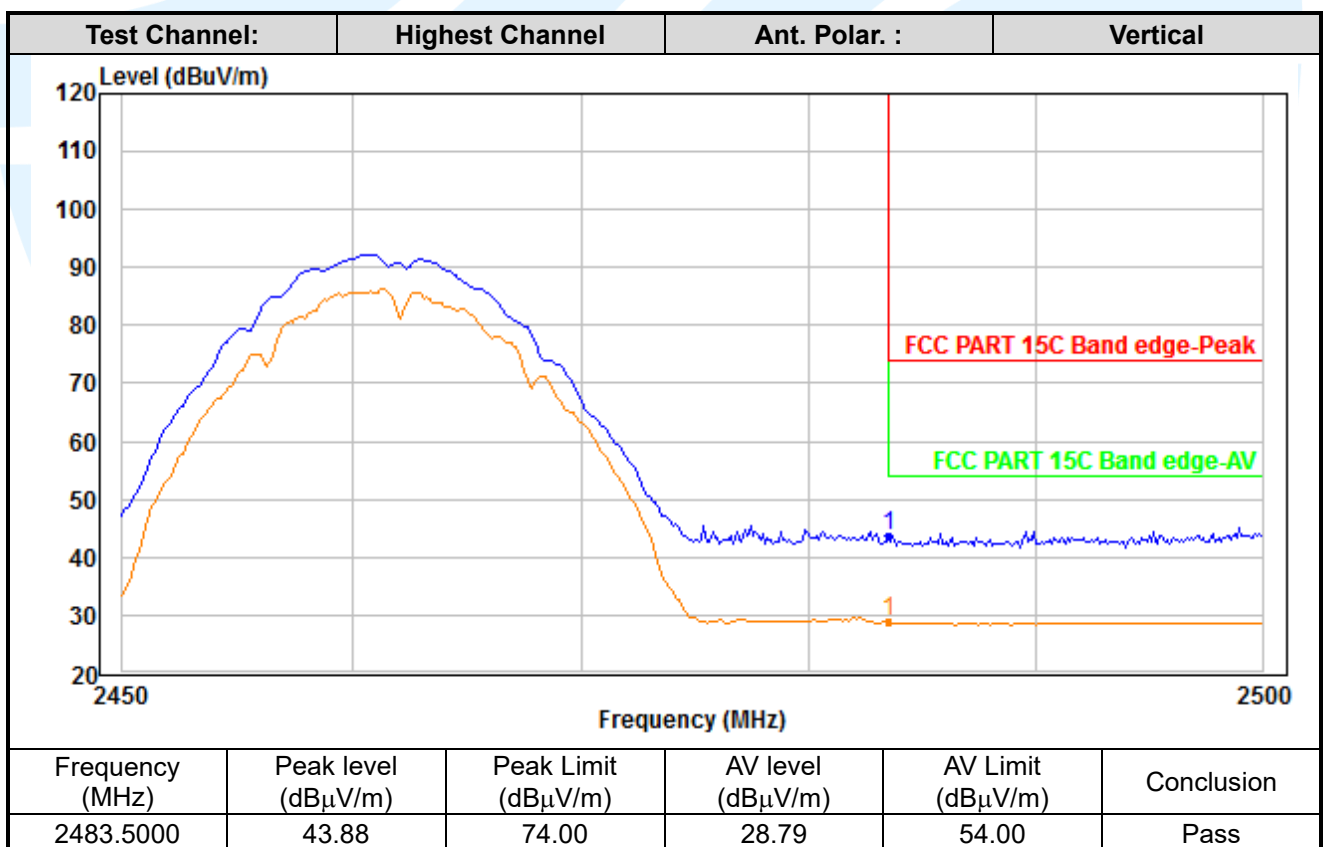
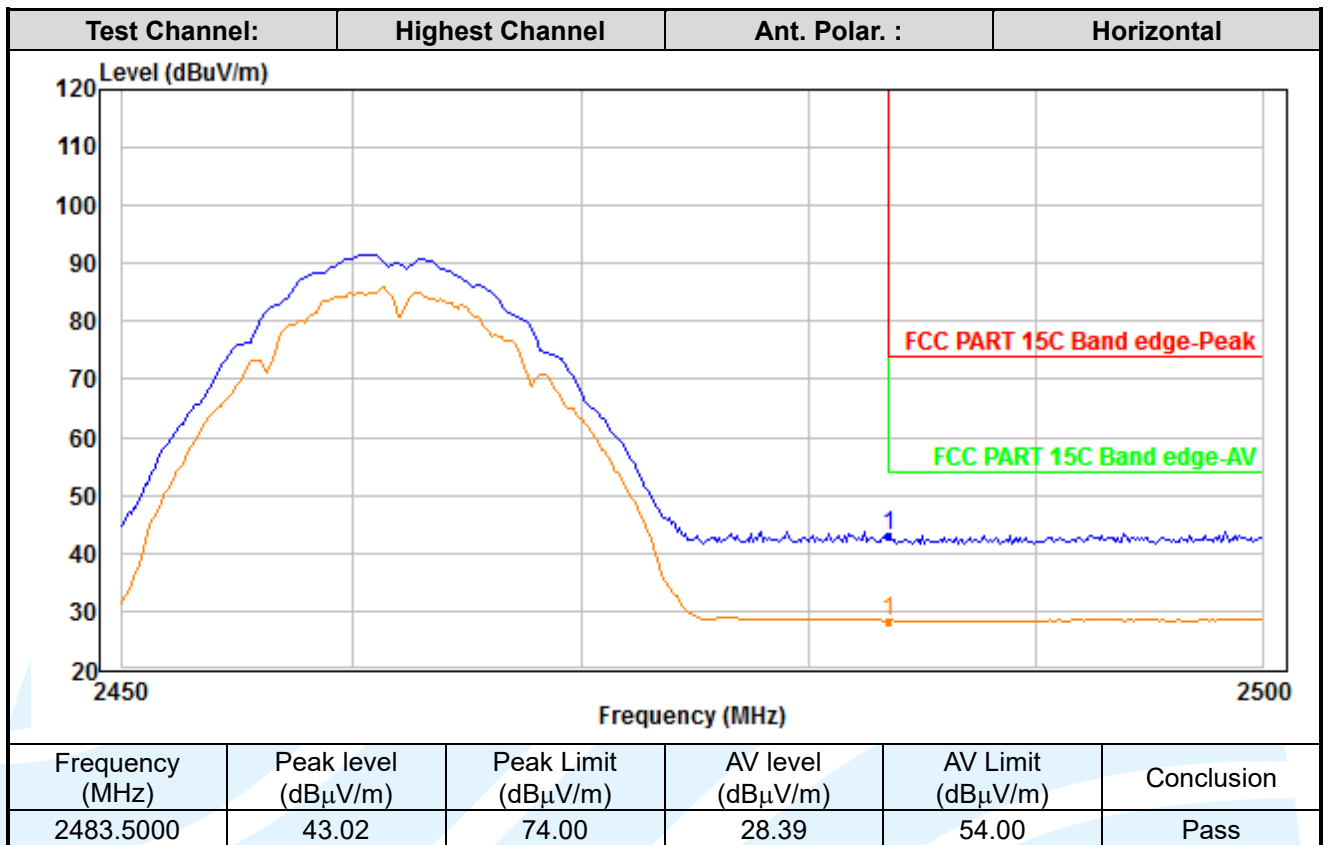
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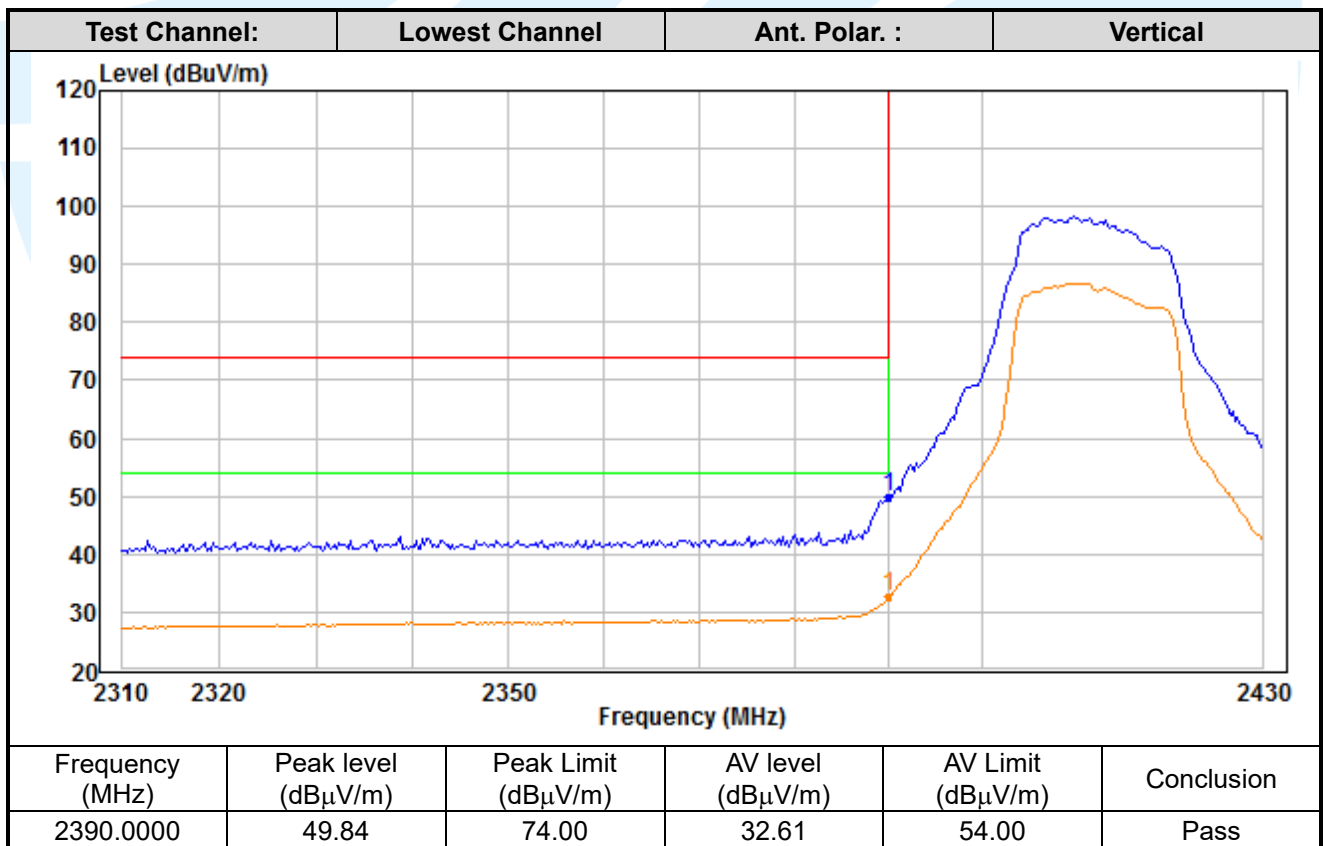
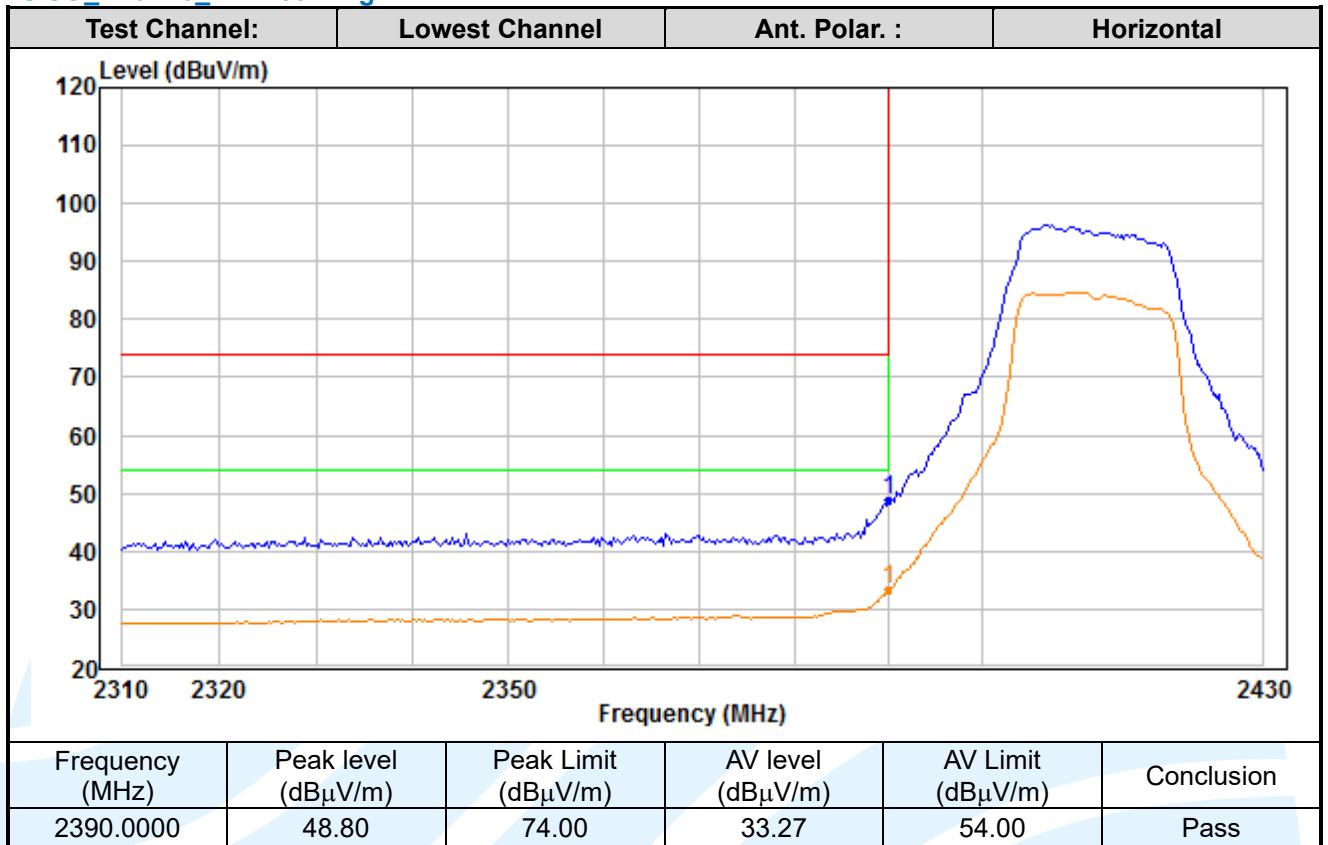
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SISO_Chain 0_IEEE 802.11g



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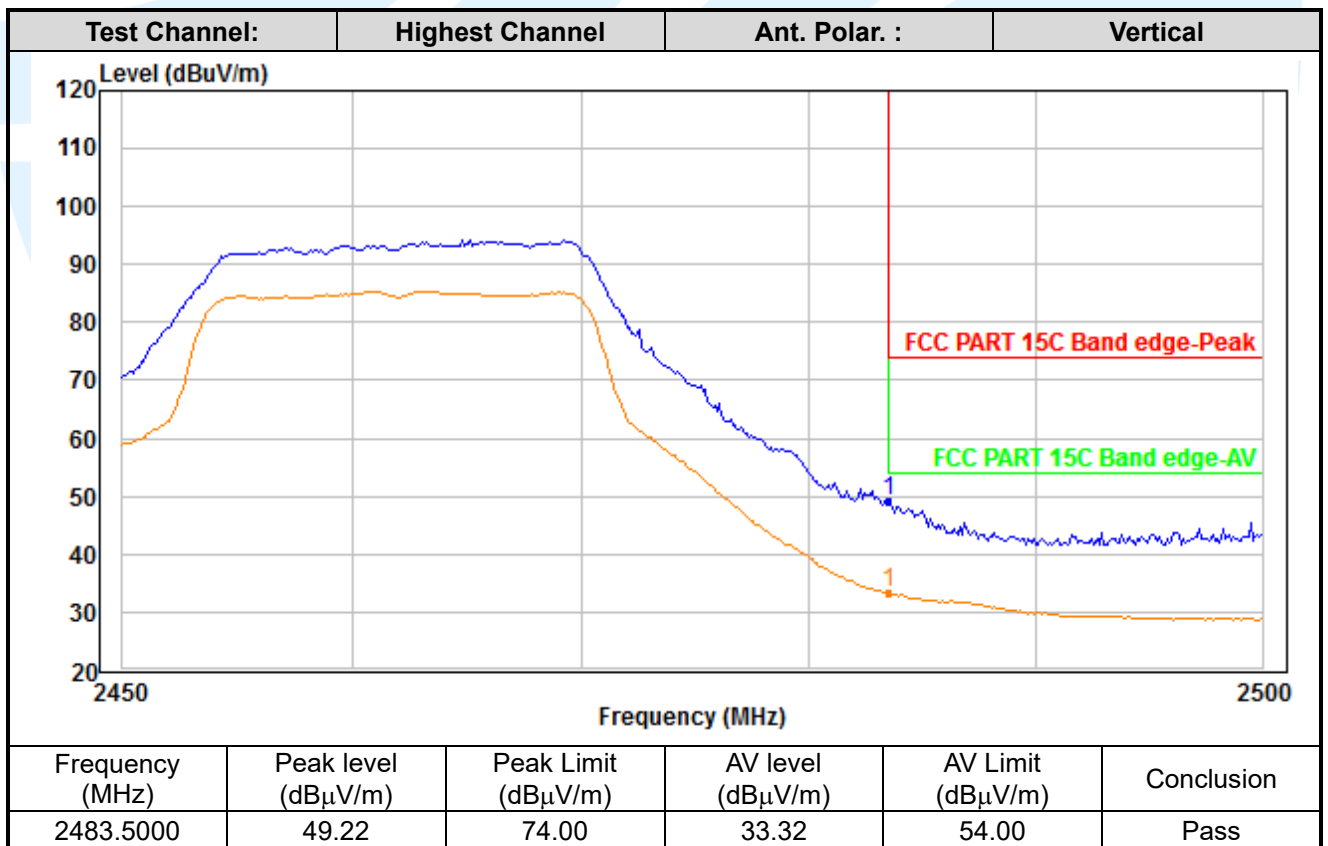
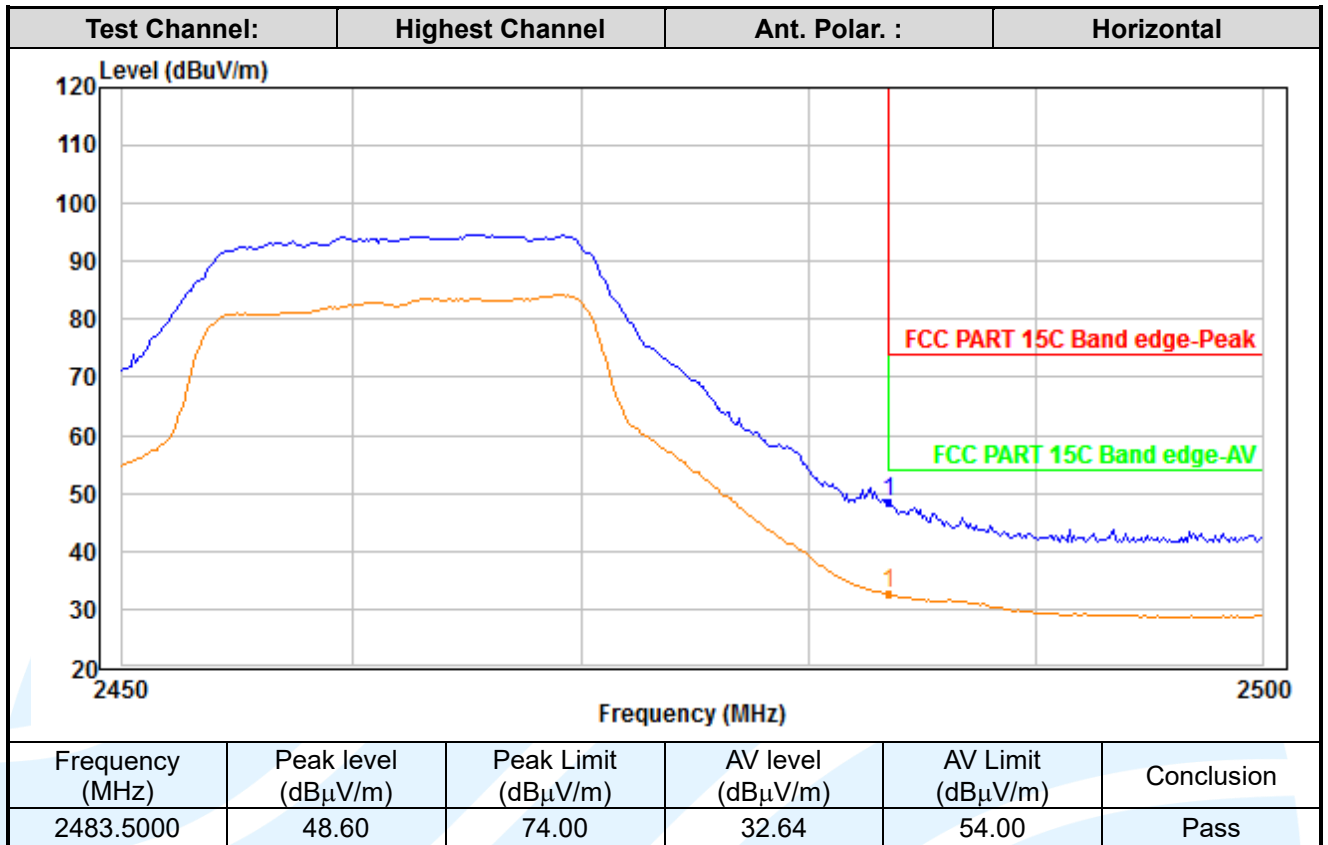
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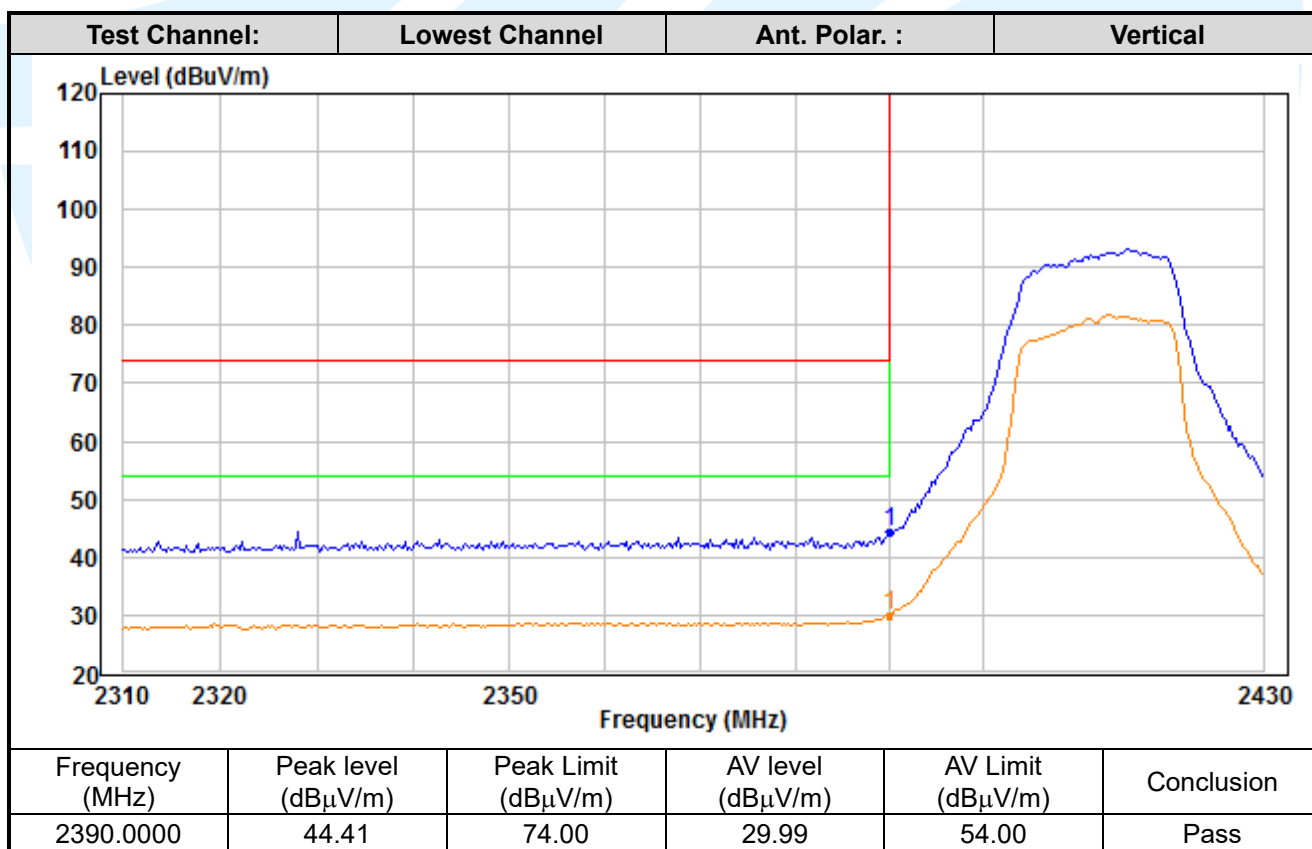
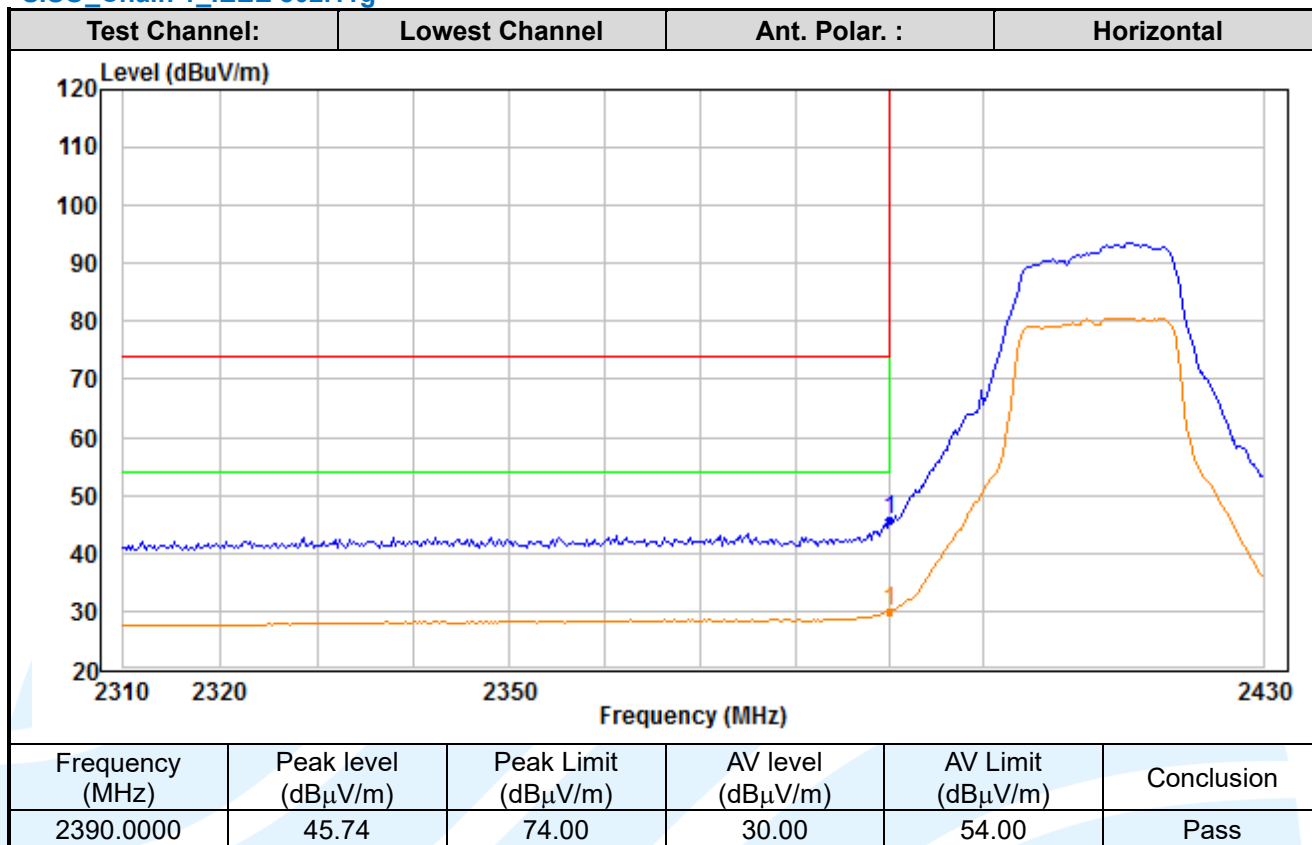
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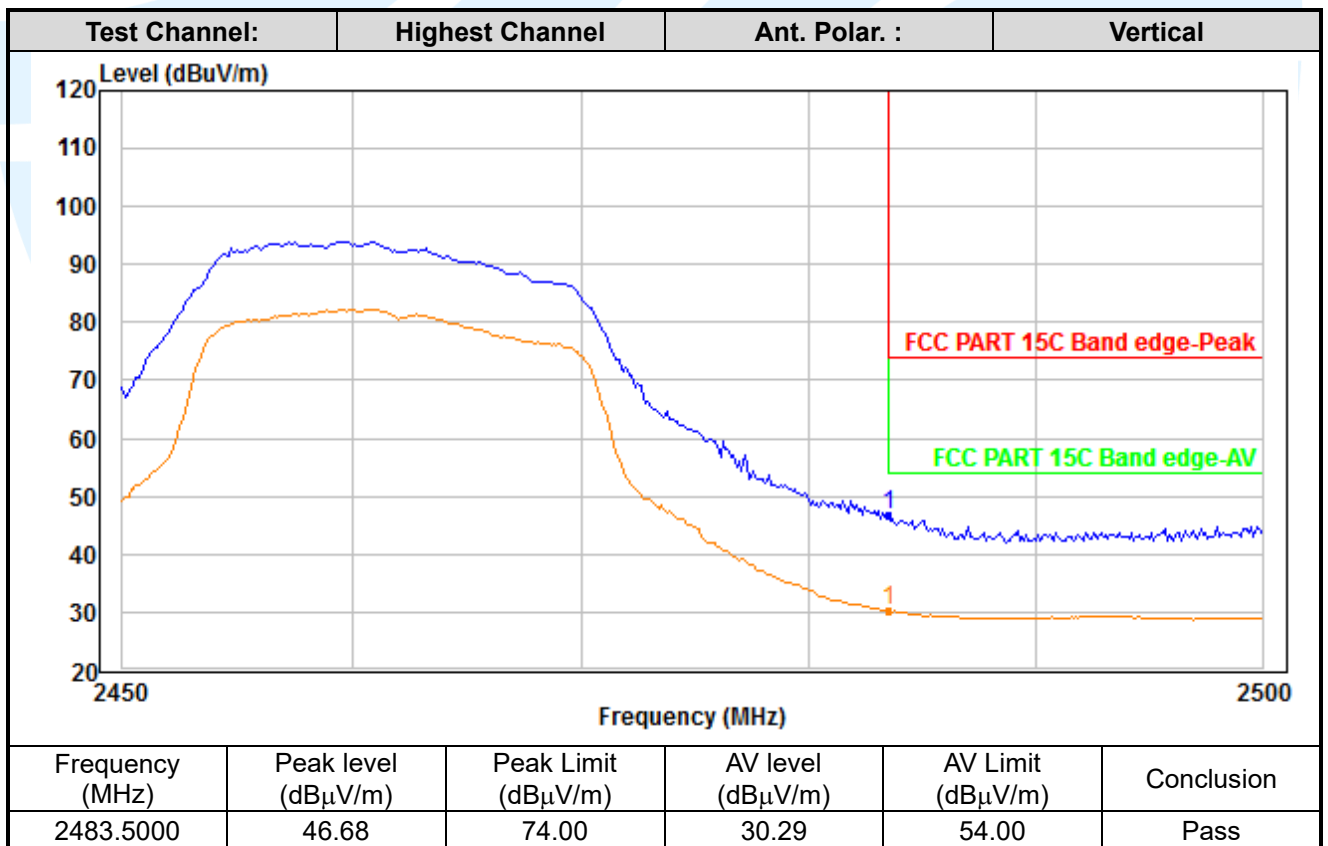
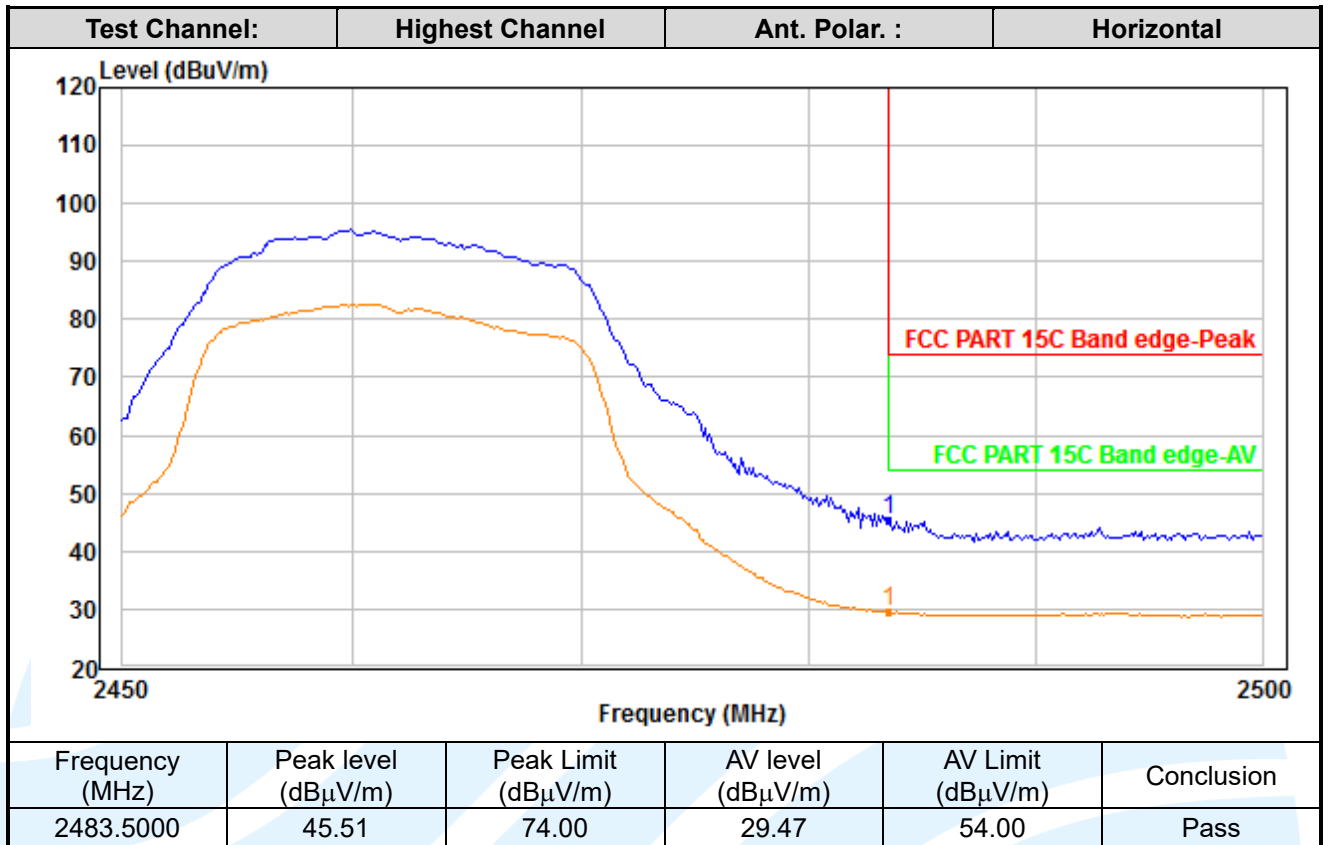
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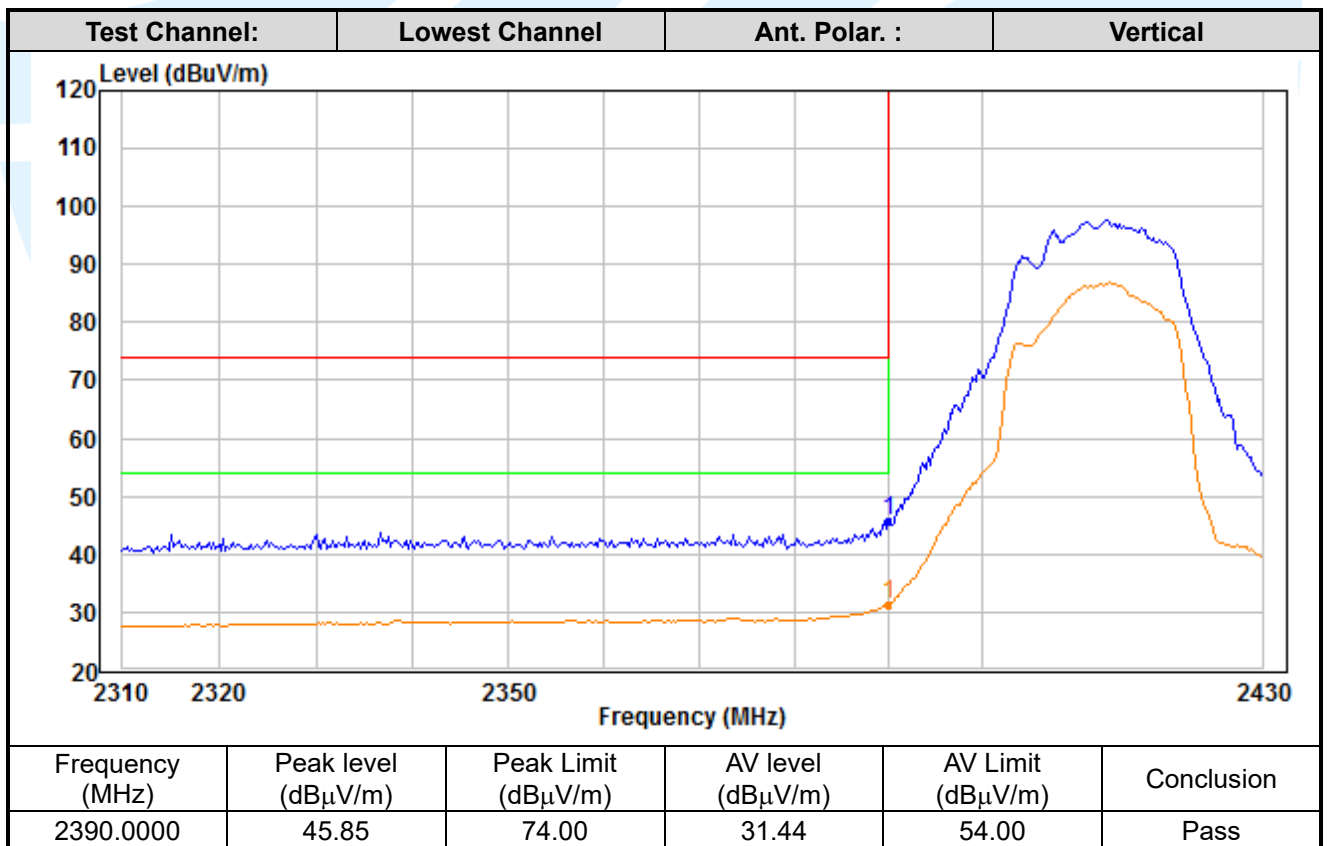
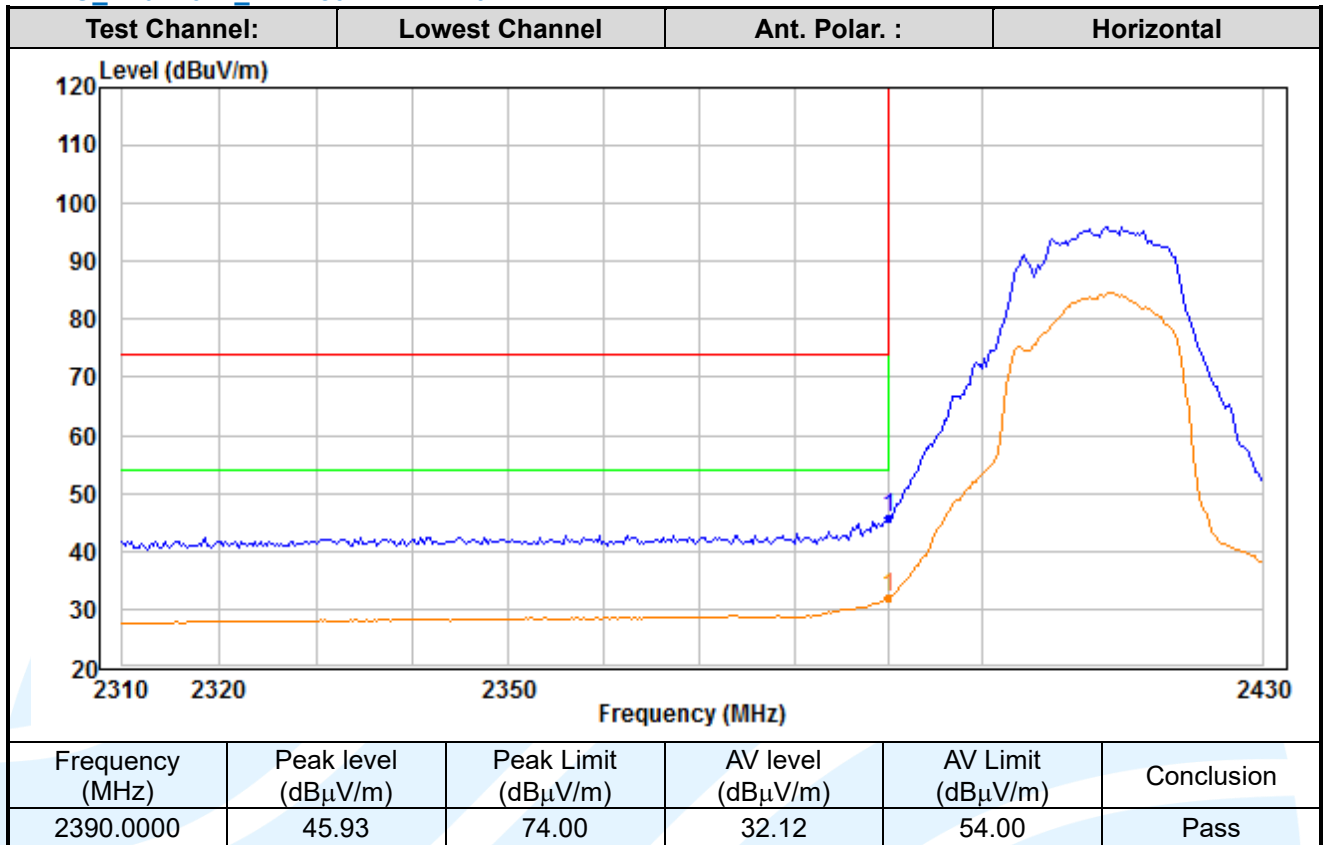
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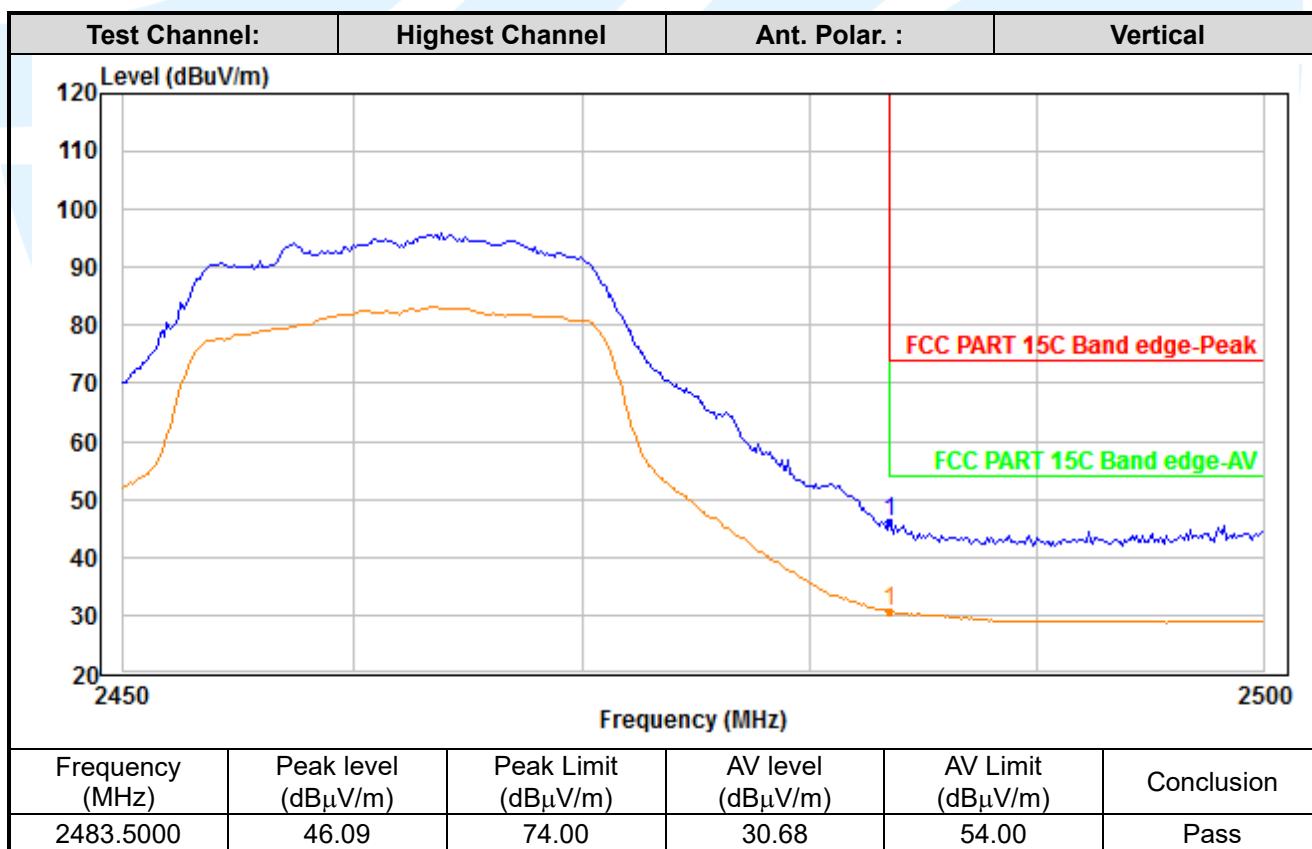
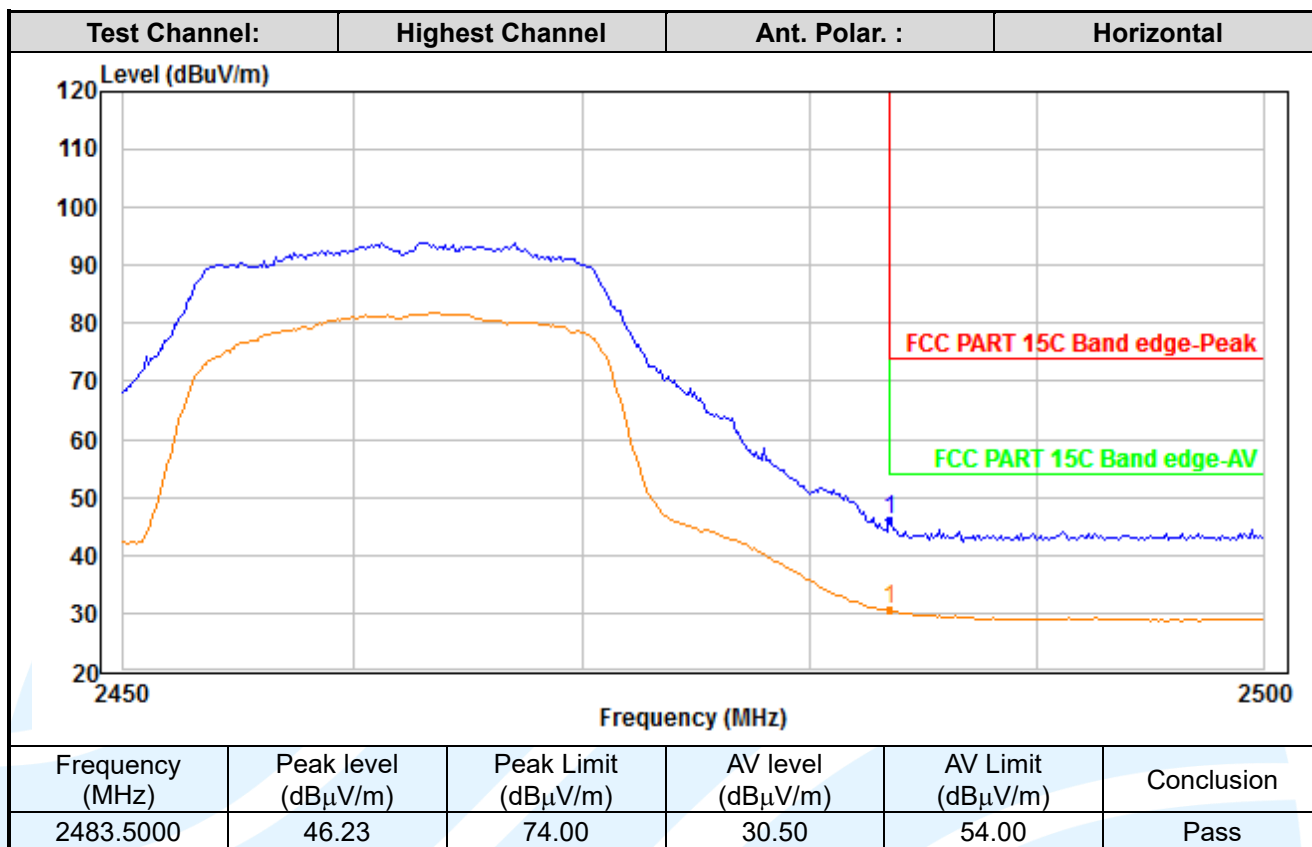
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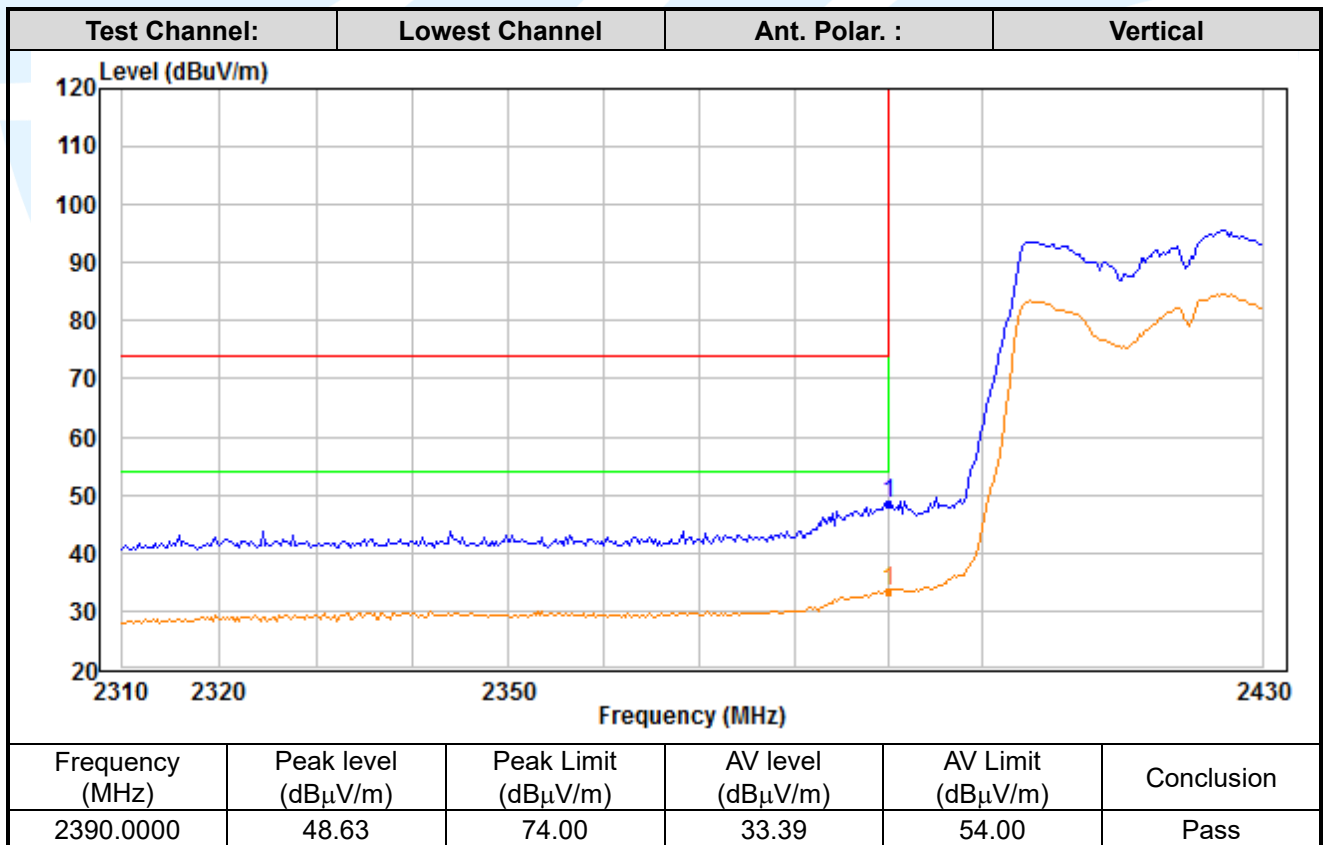
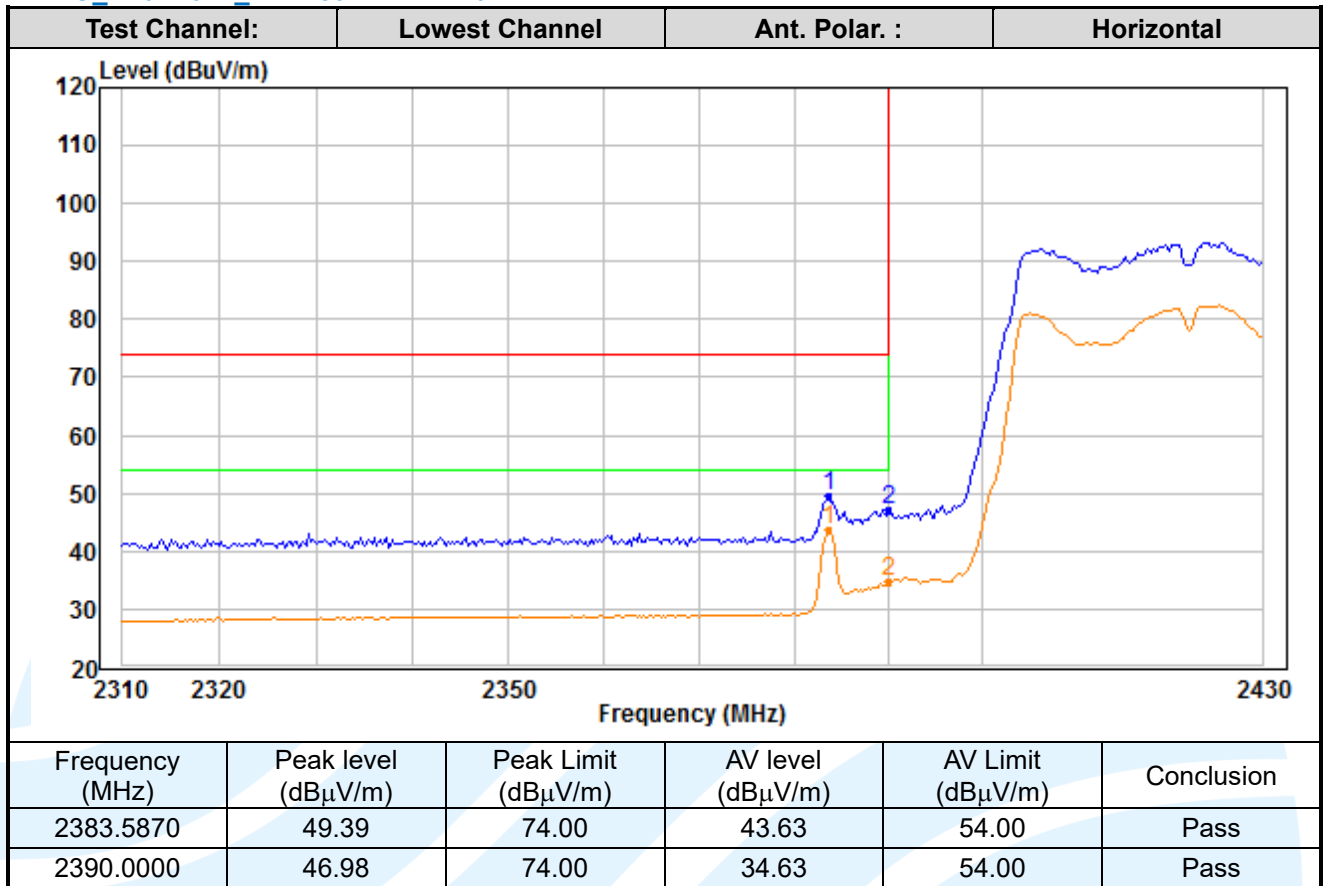
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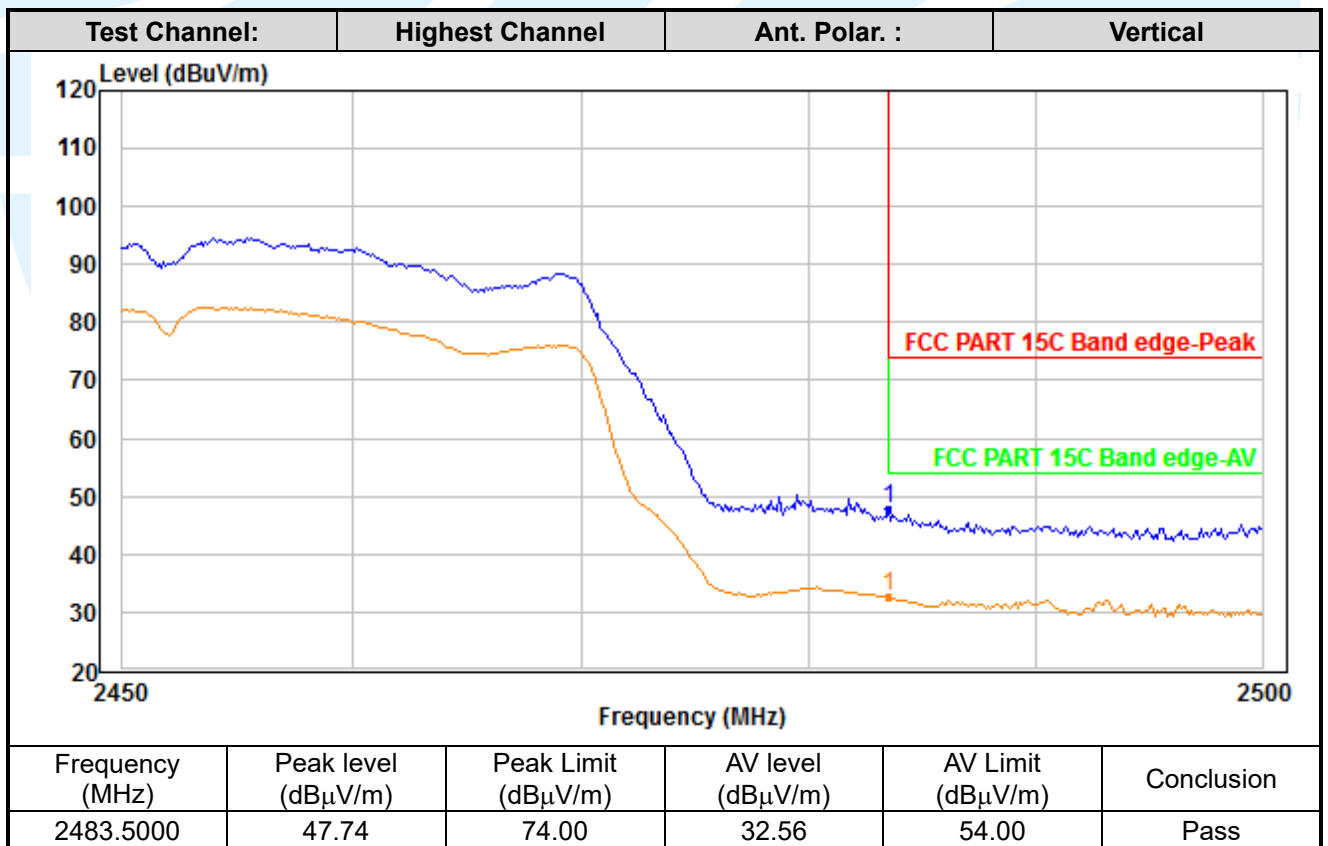
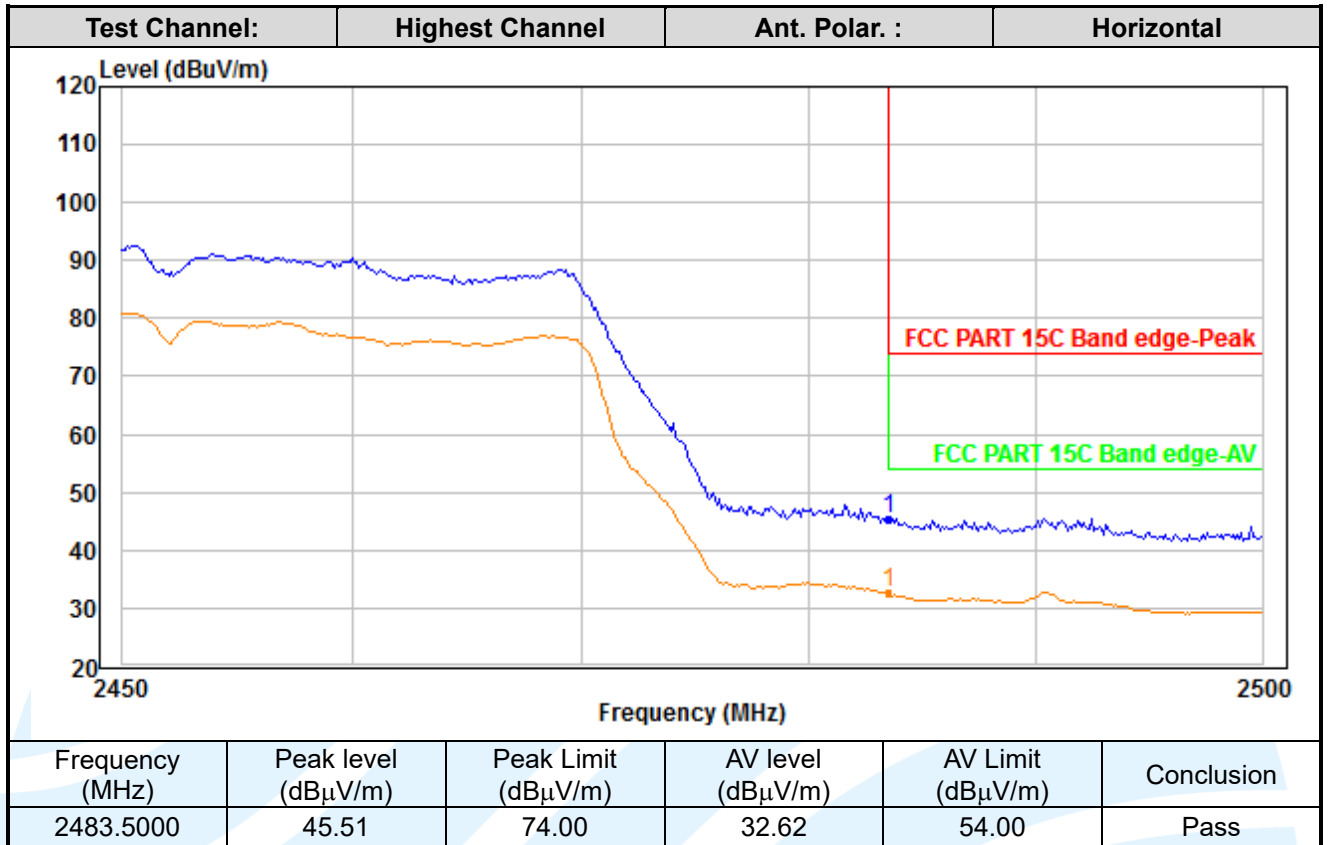
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5.9 CONDUCTED EMISSION

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 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.

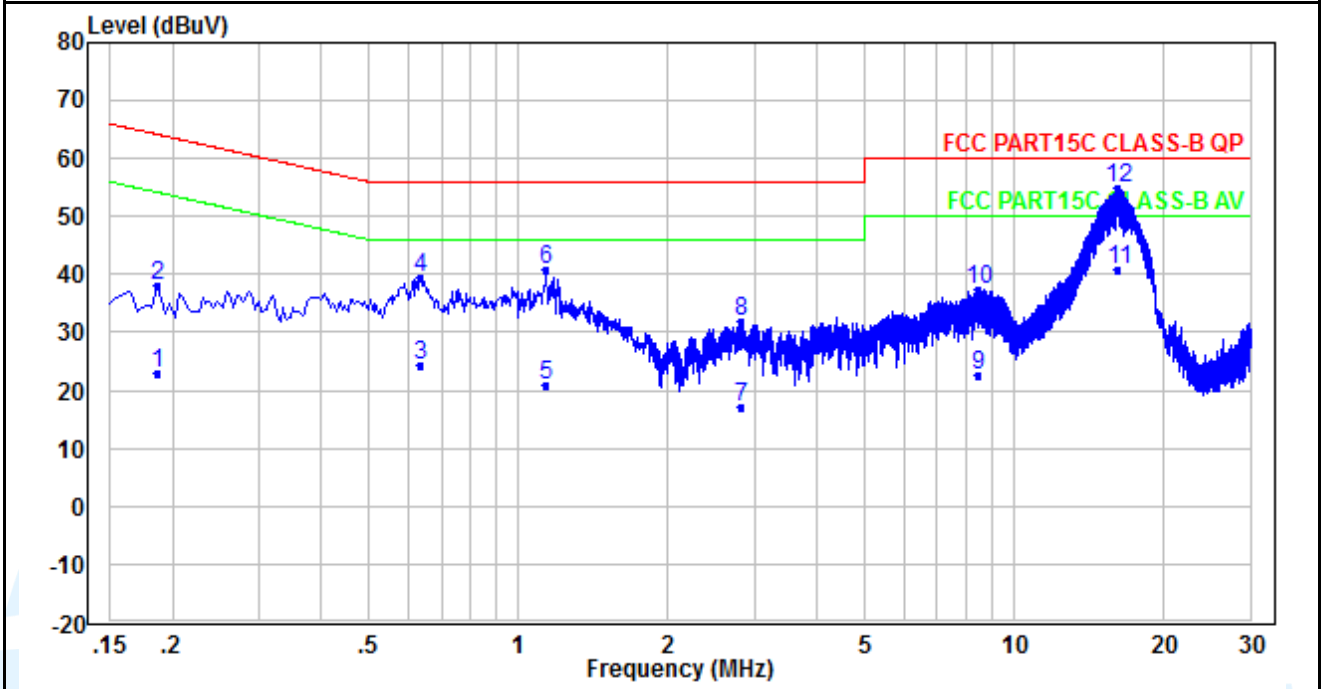
Test Result: Pass

The measurement data as follows:

Quasi Peak and Average:

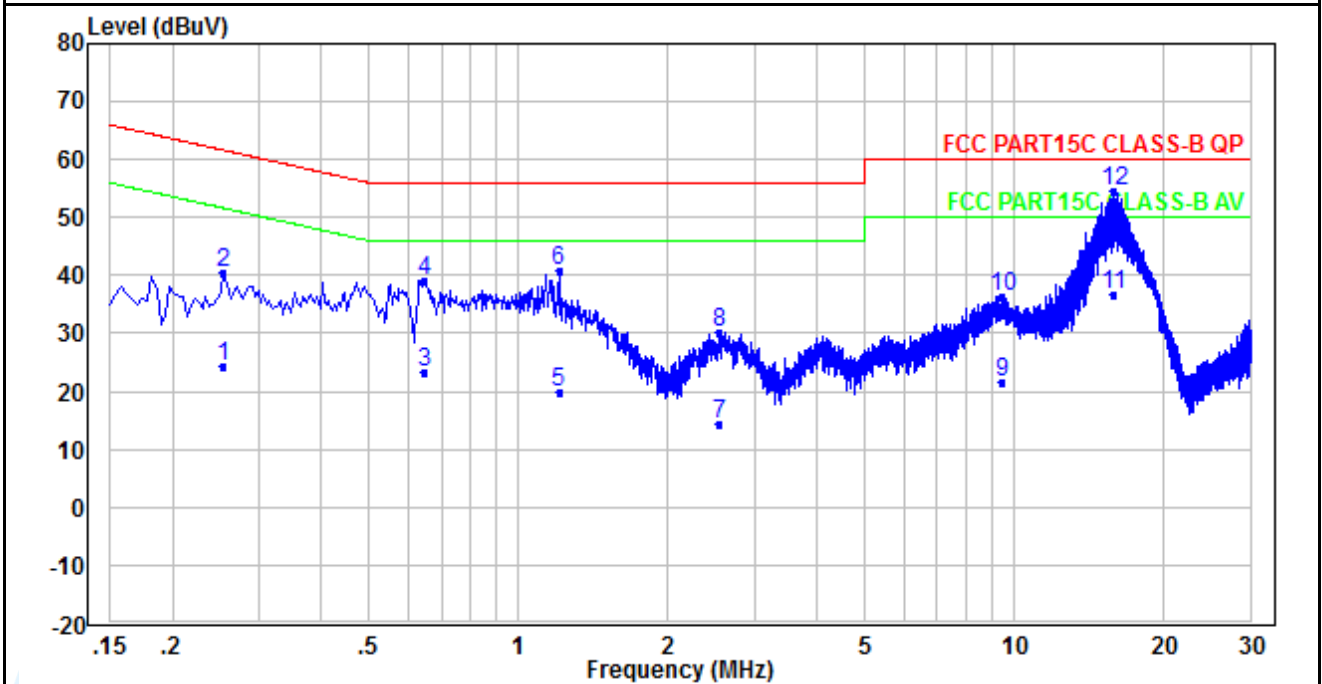
Mode: Wi-Fi Link

Live Line



No.	Frequency (MHz)	Reading (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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