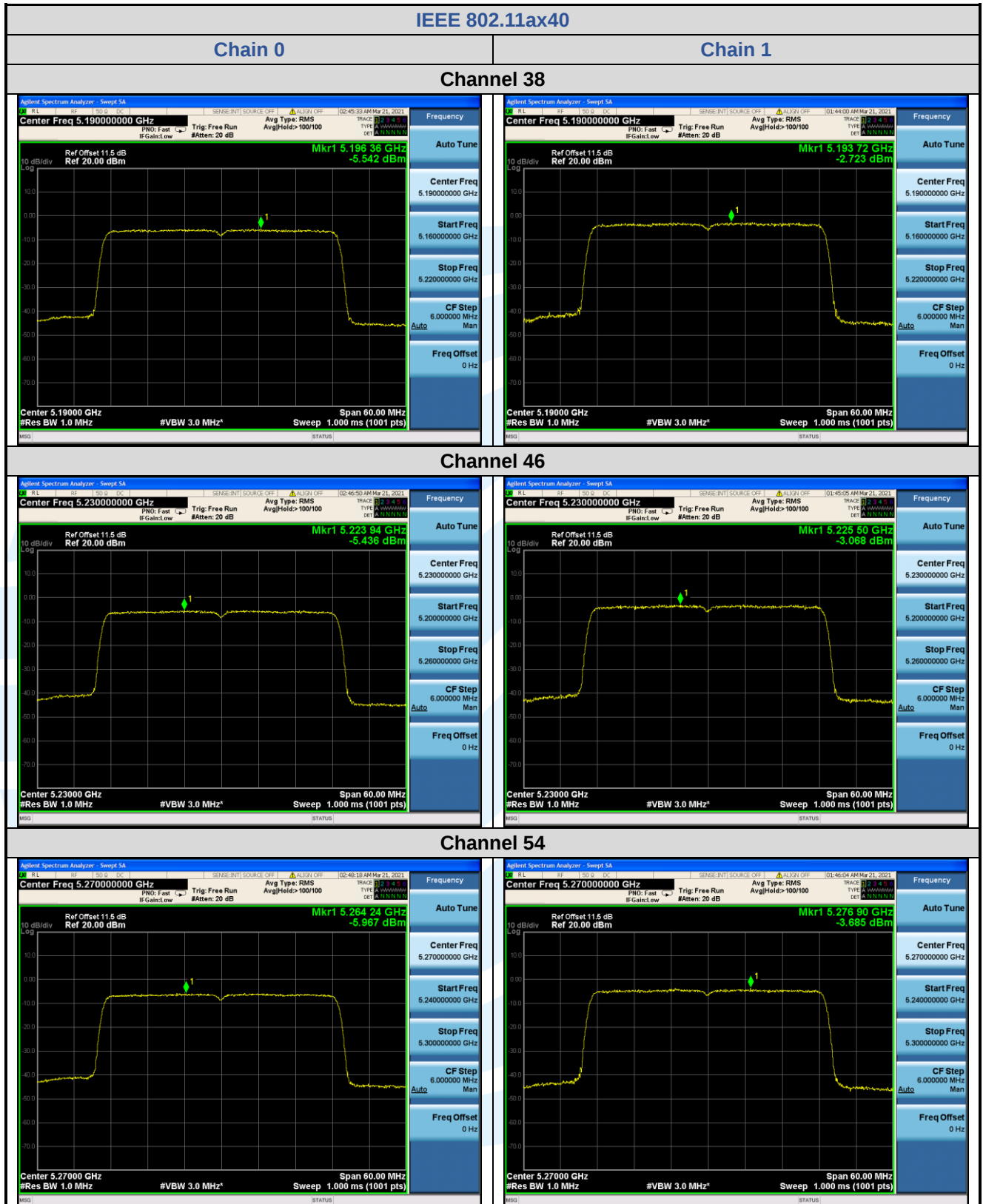


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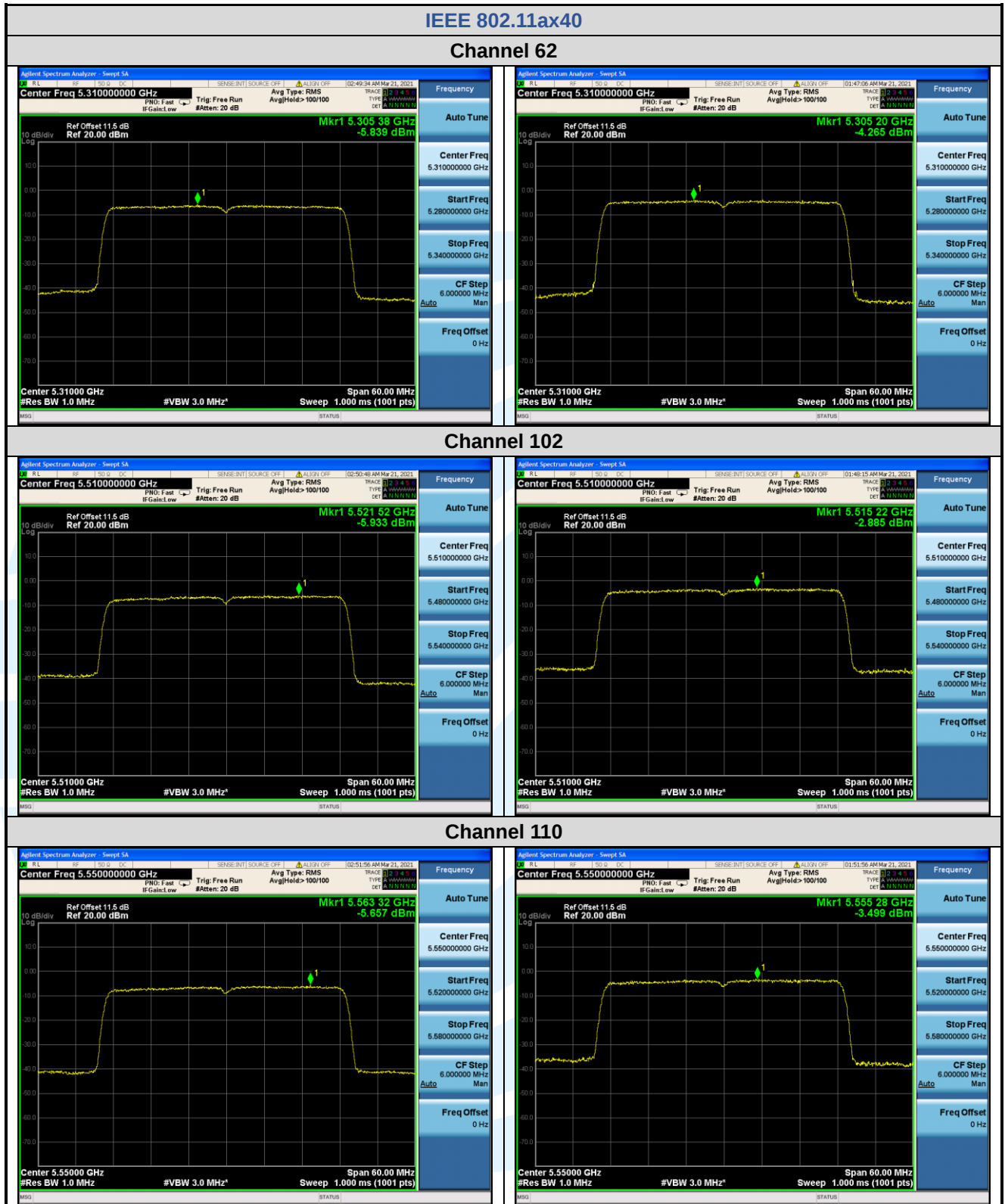
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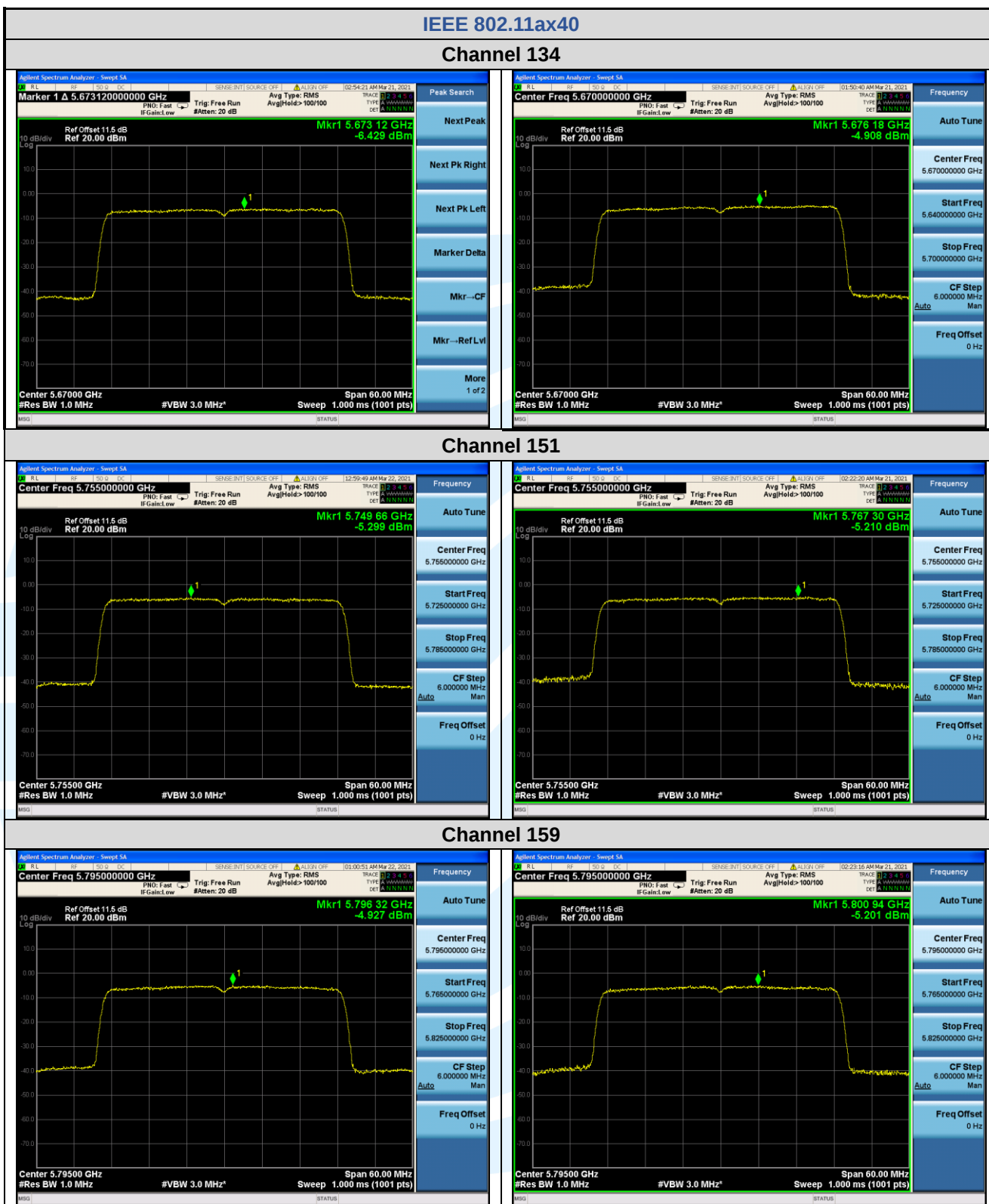
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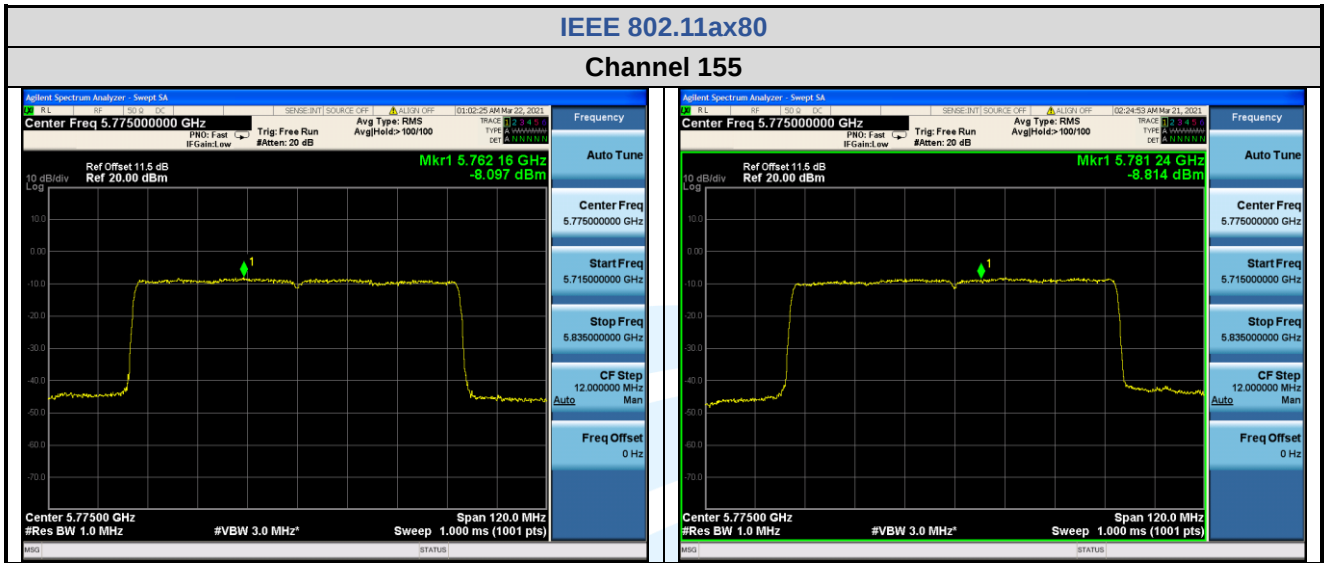
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5.7 RADIATED EMISSIONS AND BAND EDGE MEASUREMENT

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(4)(6)

FCC 47 CFR Part 15 Subpart C Section 15.209/205

RSS-247 Issue 2 Section 6.2.1.2/6.2.2.2/6.2.3.2/6.2.4.2

Test Method: KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6

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:

1. Limits of Radiated Emission and Band edge Measurement

Radiated emissions that fall in the restricted bands must comply with the general emissions limits in 15.209(a) as below table. Other emissions shall be at least 20 dB below the highest level of the desired power.

Frequency	Field strength (microvolt/meter)	Limit (dBμV/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:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 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.

2. Limits of Unwanted Emission Out of the Restricted Bands

Applicable To	Limit	
789033 D02 General U-NII Test Procedures New Rules v01r04	Field Strength at 3 m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
RSS-247 Issue 2 Section 6.2.1.2	PK: -27 (dBm/MHz)	PK: 74 (dBμV/m)
RSS-247 Issue 2 Section 6.2.2.2	PK: -27 (dBm/MHz)	PK: 74 (dBμV/m)
RSS-247 Issue 2 Section 6.2.3.2	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
RSS-247 Issue 2 Section 6.2.4.2	27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;	PK: 68.2 (dBμV/m)
	15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;	
	10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges;	
	-27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.	

Test Setup: Refer to section 4.5.1 for details.

Test Procedures:

- The EUT was placed on the top of a rotating table 0.8 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna 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.
- 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Remark:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for RMS Average (Duty cycle < 98 %) for Average detection (AV) at frequency above 1 GHz, then the measurement results was added to a correction factor (10 log(1/duty cycle)).
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle ≥ 98 %) or ≥ 1/T(duty cycle is < 98%) for Average detection (AV) at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

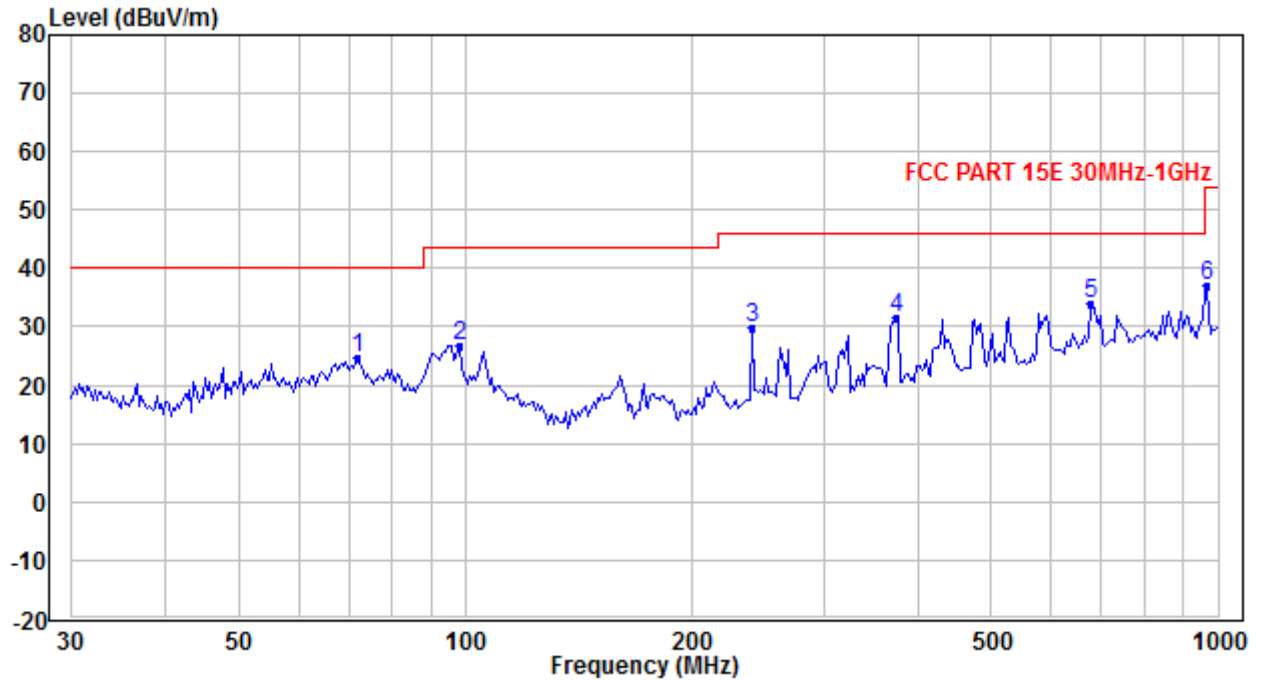
Equipment Used: Refer to section 3 for details.

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):
Worst-Case Configuration
Horizontal


No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	71.705	39.43	-14.62	24.81	40.00	-15.19	QP
2	98.375	39.84	-13.03	26.81	43.50	-16.69	QP
3	240.144	38.41	-8.62	29.79	46.00	-16.21	QP
4	373.886	36.95	-5.29	31.66	46.00	-14.34	QP
5	679.435	32.64	1.17	33.81	46.00	-12.19	QP
6	965.474	32.50	4.54	37.04	54.00	-16.96	QP

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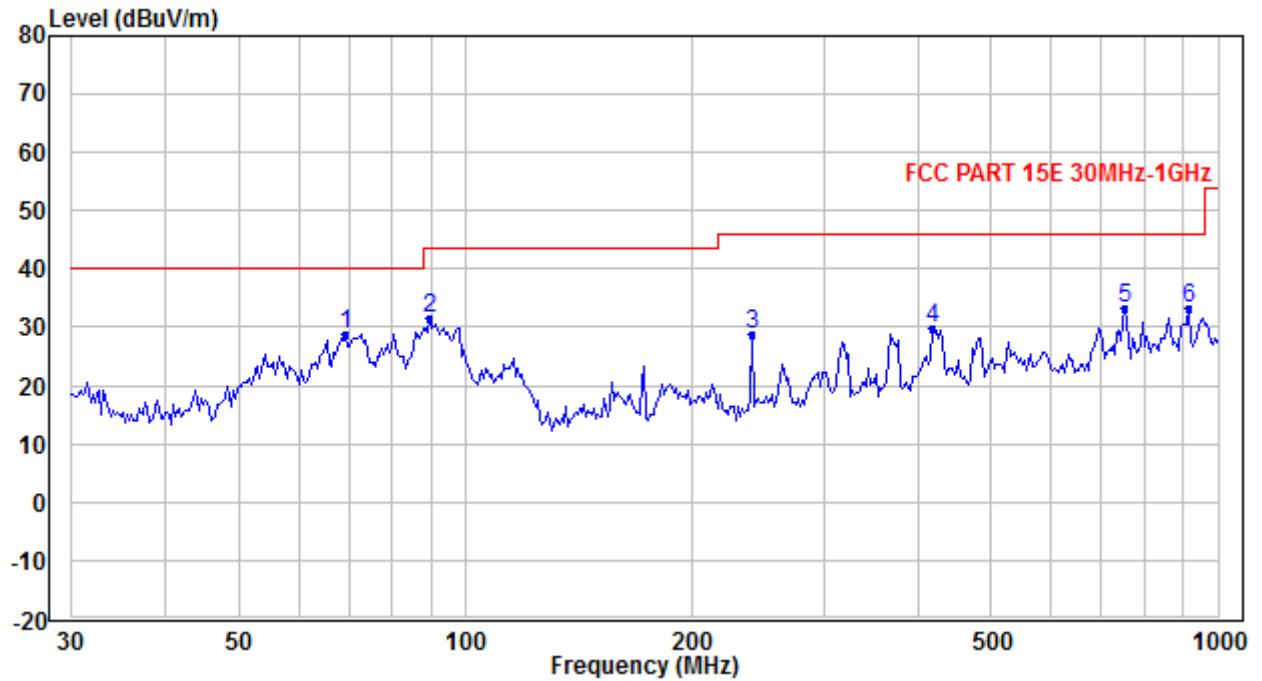
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Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	69.230	43.65	-14.70	28.95	40.00	-11.05	QP
2	89.787	45.23	-13.72	31.51	43.50	-11.99	QP
3	240.144	37.28	-8.62	28.66	46.00	-17.34	QP
4	418.378	33.32	-3.44	29.88	46.00	-16.12	QP
5	749.676	33.38	-0.27	33.11	46.00	-12.89	QP
6	912.695	29.83	3.28	33.11	46.00	-12.89	QP

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Radiated Emission Test Data (Above 1GHz):
SISO_Chain 0_IEEE 802.11a_Channel 36

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10360.00	45.96	-0.72	45.24	74.00	-28.76	Peak	Horizontal
2	10360.00	33.56	-0.72	32.84	54.00	-21.16	Average	Horizontal
3	15540.00	45.96	3.35	49.31	74.00	-24.69	Peak	Horizontal
4	15540.00	33.52	3.35	36.87	54.00	-17.13	Average	Horizontal
5	10360.00	45.96	2.24	48.20	74.00	-25.80	Peak	Vertical
6	10360.00	32.71	2.24	34.95	54.00	-19.05	Average	Vertical
7	15540.00	45.82	3.71	49.53	74.00	-24.47	Peak	Vertical
8	15540.00	33.26	3.71	36.97	54.00	-17.03	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 44

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10440.00	37.54	4.85	42.39	74.00	-31.61	Peak	Horizontal
2	10440.00	32.50	4.85	37.35	54.00	-16.65	Average	Horizontal
3	15660.00	38.78	11.10	49.88	74.00	-24.12	Peak	Horizontal
4	15660.00	19.52	11.10	30.62	54.00	-23.38	Average	Horizontal
5	10440.00	41.07	5.80	46.87	74.00	-27.13	Peak	Vertical
6	10440.00	28.30	5.80	34.10	54.00	-19.90	Average	Vertical
7	15660.00	39.46	11.20	50.66	74.00	-23.34	Peak	Vertical
8	15660.00	26.03	11.20	37.23	54.00	-16.77	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 48

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10480.00	28.03	15.30	43.33	74.00	-30.67	Peak	Horizontal
2	10480.00	15.79	15.30	31.09	54.00	-22.91	Average	Horizontal
3	15720.00	26.49	23.05	49.54	74.00	-24.46	Peak	Horizontal
4	15720.00	14.48	23.05	37.53	54.00	-16.47	Average	Horizontal
5	10480.00	40.43	5.83	46.26	74.00	-27.74	Peak	Vertical
6	10480.00	28.14	5.83	33.97	54.00	-20.03	Average	Vertical
7	15720.00	39.03	11.28	50.31	74.00	-23.69	Peak	Vertical
8	15720.00	26.49	11.28	37.77	54.00	-16.23	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 52

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10520.00	37.24	5.72	42.96	74.00	-31.04	Peak	Horizontal
2	10520.00	28.15	5.72	33.87	54.00	-20.13	Average	Horizontal
3	15780.00	38.89	11.26	50.15	74.00	-23.85	Peak	Horizontal
4	15780.00	26.41	11.26	37.67	54.00	-16.33	Average	Horizontal
5	10520.00	40.79	5.83	46.62	74.00	-27.38	Peak	Vertical
6	10520.00	28.14	5.83	33.97	54.00	-20.03	Average	Vertical
7	15780.00	38.90	11.36	50.26	74.00	-23.74	Peak	Vertical
8	15780.00	26.41	11.36	37.77	54.00	-16.23	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 60

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10600.00	37.45	5.66	43.11	74.00	-30.89	Peak	Horizontal
2	10600.00	25.97	5.66	31.63	54.00	-22.37	Average	Horizontal
3	15900.00	38.75	11.41	50.16	74.00	-23.84	Peak	Horizontal
4	15900.00	26.13	11.41	37.54	54.00	-16.46	Average	Horizontal
5	10600.00	38.74	5.78	44.52	74.00	-29.48	Peak	Vertical
6	10600.00	26.83	5.78	32.61	54.00	-21.39	Average	Vertical
7	15900.00	38.98	11.51	50.49	74.00	-23.51	Peak	Vertical
8	15900.00	26.21	11.51	37.72	54.00	-16.28	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 64

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10640.00	40.40	5.63	46.03	74.00	-27.97	Peak	Horizontal
2	10640.00	25.33	5.63	30.96	54.00	-23.04	Average	Horizontal
3	15960.00	38.43	11.47	49.90	74.00	-24.10	Peak	Horizontal
4	15960.00	26.15	11.47	37.62	54.00	-16.38	Average	Horizontal
5	10640.00	39.37	6.06	45.43	74.00	-28.57	Peak	Vertical
6	10640.00	26.68	6.06	32.74	54.00	-21.26	Average	Vertical
7	15960.00	39.19	11.57	50.76	74.00	-23.24	Peak	Vertical
8	15960.00	26.29	11.57	37.86	54.00	-16.14	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 100

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11000.00	39.71	5.32	45.03	74.00	-28.97	Peak	Horizontal
2	11000.00	26.91	5.32	32.23	54.00	-21.77	Average	Horizontal
3	16500.00	38.50	12.55	51.05	74.00	-22.95	Peak	Horizontal
4	16500.00	25.80	12.55	38.35	54.00	-15.65	Average	Horizontal
5	11000.00	40.44	5.52	45.96	74.00	-28.04	Peak	Vertical
6	11000.00	28.30	5.52	33.82	54.00	-20.18	Average	Vertical
7	16500.00	38.92	12.85	51.77	74.00	-22.23	Peak	Vertical
8	16500.00	25.73	12.85	38.58	54.00	-15.42	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 116

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11160.00	38.52	5.57	44.09	74.00	-29.91	Peak	Horizontal
2	11160.00	26.04	5.57	31.61	54.00	-22.39	Average	Horizontal
3	16740.00	37.99	12.37	50.36	74.00	-23.64	Peak	Horizontal
4	16740.00	26.27	12.37	38.64	54.00	-15.36	Average	Horizontal
5	11160.00	40.54	5.74	46.28	74.00	-27.72	Peak	Vertical
6	11160.00	27.18	5.74	32.92	54.00	-21.08	Average	Vertical
7	16740.00	38.99	12.63	51.62	74.00	-22.38	Peak	Vertical
8	16740.00	26.20	12.63	38.83	54.00	-15.17	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 140

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11400.00	40.37	5.93	46.30	74.00	-27.70	Peak	Horizontal
2	11400.00	28.23	5.93	34.16	54.00	-19.84	Average	Horizontal
3	17100.00	37.04	12.50	49.54	74.00	-24.46	Peak	Horizontal
4	17100.00	24.39	12.50	36.89	54.00	-17.11	Average	Horizontal
5	11400.00	41.55	6.05	47.60	74.00	-26.40	Peak	Vertical
6	11400.00	28.06	6.05	34.11	54.00	-19.89	Average	Vertical
7	17100.00	37.23	12.66	49.89	74.00	-24.11	Peak	Vertical
8	17100.00	24.48	12.66	37.14	54.00	-16.86	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 149

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11490.00	39.93	6.07	46.00	74.00	-28.00	Peak	Horizontal
2	11490.00	27.44	6.07	33.51	54.00	-20.49	Average	Horizontal
3	17235.00	37.96	12.94	50.90	74.00	-23.10	Peak	Horizontal
4	17235.00	25.50	12.94	38.44	54.00	-15.56	Average	Horizontal
5	11490.00	40.80	6.17	46.97	74.00	-27.03	Peak	Vertical
6	11490.00	27.99	6.17	34.16	54.00	-19.84	Average	Vertical
7	17235.00	37.95	13.04	50.99	74.00	-23.01	Peak	Vertical
8	17235.00	25.33	13.04	38.37	54.00	-15.63	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 157

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11570.00	38.91	6.29	45.20	74.00	-28.80	Peak	Horizontal
2	11570.00	26.43	6.29	32.72	54.00	-21.28	Average	Horizontal
3	17355.00	38.88	13.32	52.20	74.00	-21.80	Peak	Horizontal
4	17355.00	26.12	13.32	39.44	54.00	-14.56	Average	Horizontal
5	11570.00	40.46	6.42	46.88	74.00	-27.12	Peak	Vertical
6	11570.00	27.04	6.42	33.46	54.00	-20.54	Average	Vertical
7	17355.00	38.42	13.38	51.80	74.00	-22.20	Peak	Vertical
8	17355.00	25.81	13.38	39.19	54.00	-14.81	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 165

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11650.00	39.74	6.52	46.26	74.00	-27.74	Peak	Horizontal
2	11650.00	27.07	6.52	33.59	54.00	-20.41	Average	Horizontal
3	17475.00	38.35	13.71	52.06	74.00	-21.94	Peak	Horizontal
4	17475.00	25.14	13.71	38.85	54.00	-15.15	Average	Horizontal
5	11650.00	39.26	6.68	45.94	74.00	-28.06	Peak	Vertical
6	11650.00	27.39	6.68	34.07	54.00	-19.93	Average	Vertical
7	17475.00	37.49	13.73	51.22	74.00	-22.78	Peak	Vertical
8	17475.00	24.88	13.73	38.61	54.00	-15.39	Average	Vertical

SISO_Chain 1_ IEEE 802.11a_Channel 36

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10360.00	39.43	5.58	45.01	74.00	-28.99	Peak	Horizontal
2	10360.00	25.21	5.58	30.79	54.00	-23.21	Average	Horizontal
3	15540.00	40.13	10.97	51.10	74.00	-22.90	Peak	Horizontal
4	15540.00	26.05	10.97	37.02	54.00	-16.98	Average	Horizontal
5	10360.00	42.10	5.74	47.84	74.00	-26.16	Peak	Vertical
6	10360.00	29.60	5.74	35.34	54.00	-18.66	Average	Vertical
7	15540.00	38.04	11.07	49.11	74.00	-24.89	Peak	Vertical
8	15540.00	25.90	11.07	36.97	54.00	-17.03	Average	Vertical

SISO_Chain 1_ IEEE 802.11a_Channel 44

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4874.00	39.73	5.68	45.41	74.00	-28.59	Peak	Horizontal
2	4874.00	26.30	5.68	31.98	54.00	-22.02	Average	Horizontal
3	7311.00	38.67	11.10	49.77	74.00	-24.23	Peak	Horizontal
4	7311.00	26.65	11.10	37.75	54.00	-16.25	Average	Horizontal
5	4874.00	41.95	5.80	47.75	74.00	-26.25	Peak	Vertical
6	4874.00	29.59	5.80	35.39	54.00	-18.61	Average	Vertical
7	7311.00	38.73	11.20	49.93	74.00	-24.07	Peak	Vertical
8	7311.00	26.32	11.20	37.52	54.00	-16.48	Average	Vertical

SISO_Chain 1_ IEEE 802.11a_Channel 48

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10440.00	41.95	5.80	47.75	74.00	-26.25	Peak	Horizontal
2	10440.00	29.59	5.80	35.39	54.00	-18.61	Average	Horizontal
3	15660.00	38.73	11.20	49.93	74.00	-24.07	Peak	Horizontal
4	15660.00	26.32	11.20	37.52	54.00	-16.48	Average	Horizontal
5	10440.00	39.73	5.68	45.41	74.00	-28.59	Peak	Vertical
6	10440.00	26.30	5.68	31.98	54.00	-22.02	Average	Vertical
7	15660.00	38.67	11.10	49.77	74.00	-24.23	Peak	Vertical
8	15660.00	26.25	11.10	37.35	54.00	-16.65	Average	Vertical

SISO_Chain 1_ IEEE 802.11a_Channel 52

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10520.00	38.08	5.72	43.80	74.00	-30.20	Peak	Horizontal
2	10520.00	25.67	5.72	31.39	54.00	-22.61	Average	Horizontal
3	15780.00	39.58	11.18	50.76	74.00	-23.24	Peak	Horizontal
4	15780.00	26.56	11.18	37.74	54.00	-16.26	Average	Horizontal
5	10520.00	40.49	5.83	46.32	74.00	-27.68	Peak	Vertical
6	10520.00	28.58	5.83	34.41	54.00	-19.59	Average	Vertical
7	15780.00	38.60	11.28	49.88	74.00	-24.12	Peak	Vertical
8	15780.00	26.49	11.28	37.77	54.00	-16.23	Average	Vertical

SISO_Chain 1_ IEEE 802.11a_Channel 60

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10600.00	39.56	5.72	45.28	74.00	-28.72	Peak	Horizontal
2	10600.00	27.13	5.72	32.85	54.00	-21.15	Average	Horizontal
3	15900.00	38.33	11.26	49.59	74.00	-24.41	Peak	Horizontal
4	15900.00	26.34	11.26	37.60	54.00	-16.40	Average	Horizontal
5	10600.00	41.50	5.83	47.33	74.00	-26.67	Peak	Vertical
6	10600.00	29.06	5.83	34.89	54.00	-19.11	Average	Vertical
7	15900.00	39.32	11.36	50.68	74.00	-23.32	Peak	Vertical
8	15900.00	26.34	11.36	37.70	54.00	-16.30	Average	Vertical

SISO_Chain 1_ IEEE 802.11a_Channel 64

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10640.00	39.07	5.63	44.70	74.00	-29.30	Peak	Horizontal
2	10640.00	26.65	5.63	32.28	54.00	-21.72	Average	Horizontal
3	15960.00	38.67	11.47	50.14	74.00	-23.86	Peak	Horizontal
4	15960.00	26.15	11.47	37.62	54.00	-16.38	Average	Horizontal
5	10640.00	39.94	5.76	45.70	74.00	-28.30	Peak	Vertical
6	10640.00	27.48	5.76	33.24	54.00	-20.76	Average	Vertical
7	15960.00	38.69	11.57	50.26	74.00	-23.74	Peak	Vertical
8	15960.00	26.15	11.57	37.72	54.00	-16.28	Average	Vertical

SISO_Chain 1_IIEEE 802.11a_Channel 100

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11000.00	41.09	5.32	46.41	74.00	-27.59	Peak	Horizontal
2	11000.00	28.30	5.32	33.62	54.00	-20.38	Average	Horizontal
3	16500.00	37.82	12.55	50.37	74.00	-23.63	Peak	Horizontal
4	16500.00	25.73	12.55	38.28	54.00	-15.72	Average	Horizontal
5	11000.00	42.24	5.52	47.76	74.00	-26.24	Peak	Vertical
6	11000.00	29.35	5.52	34.87	54.00	-19.13	Average	Vertical
7	16500.00	38.61	12.85	51.46	74.00	-22.54	Peak	Vertical
8	16500.00	25.88	12.85	38.73	54.00	-15.27	Average	Vertical

SISO_Chain 1_IIEEE 802.11a_Channel 116

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11160.00	41.37	5.57	46.94	74.00	-27.06	Peak	Horizontal
2	11160.00	26.59	5.57	32.16	54.00	-21.84	Average	Horizontal
3	16740.00	38.31	12.37	50.68	74.00	-23.32	Peak	Horizontal
4	16740.00	26.27	12.37	38.64	54.00	-15.36	Average	Horizontal
5	11160.00	39.88	5.74	45.62	74.00	-28.38	Peak	Vertical
6	11160.00	27.37	5.74	33.11	54.00	-20.89	Average	Vertical
7	16740.00	38.94	12.63	51.57	74.00	-22.43	Peak	Vertical
8	16740.00	26.20	12.63	38.83	54.00	-15.17	Average	Vertical

SISO_Chain 1_IIEEE 802.11a_Channel 140

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11400.00	40.19	5.93	46.12	74.00	-27.88	Peak	Horizontal
2	11400.00	28.00	5.93	33.93	54.00	-20.07	Average	Horizontal
3	17100.00	36.54	13.30	49.84	74.00	-24.16	Peak	Horizontal
4	17100.00	23.68	13.30	36.98	54.00	-17.02	Average	Horizontal
5	11400.00	40.55	6.05	46.60	74.00	-27.40	Peak	Vertical
6	11400.00	28.12	6.05	34.17	54.00	-19.83	Average	Vertical
7	17100.00	37.40	13.46	50.86	74.00	-23.14	Peak	Vertical
8	17100.00	23.77	13.46	37.23	54.00	-16.77	Average	Vertical

SISO_Chain 1_ IEEE 802.11a_Channel 149

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11490.00	40.93	6.07	47.00	74.00	-27.00	Peak	Horizontal
2	11490.00	27.32	6.07	33.39	54.00	-20.61	Average	Horizontal
3	17235.00	38.02	12.94	50.96	74.00	-23.04	Peak	Horizontal
4	17235.00	25.42	12.94	38.36	54.00	-15.64	Average	Horizontal
5	11490.00	40.80	6.17	46.97	74.00	-27.03	Peak	Vertical
6	11490.00	28.11	6.17	34.28	54.00	-19.72	Average	Vertical
7	17235.00	37.74	13.04	50.78	74.00	-23.22	Peak	Vertical
8	17235.00	25.33	13.04	38.37	54.00	-15.63	Average	Vertical

SISO_Chain 1_ IEEE 802.11a_Channel 157

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11570.00	38.17	6.29	44.46	74.00	-29.54	Peak	Horizontal
2	11570.00	26.08	6.29	32.37	54.00	-21.63	Average	Horizontal
3	17355.00	38.45	13.32	51.77	74.00	-22.23	Peak	Horizontal
4	17355.00	26.12	13.32	39.44	54.00	-14.56	Average	Horizontal
5	11570.00	39.23	6.42	45.65	74.00	-28.35	Peak	Vertical
6	11570.00	26.85	6.42	33.27	54.00	-20.73	Average	Vertical
7	17355.00	38.08	13.38	51.46	74.00	-22.54	Peak	Vertical
8	17355.00	25.89	13.38	39.27	54.00	-14.73	Average	Vertical

SISO_Chain 1_ IEEE 802.11a_Channel 165

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11650.00	39.74	6.52	46.26	74.00	-27.74	Peak	Horizontal
2	11650.00	27.07	6.52	33.59	54.00	-20.41	Average	Horizontal
3	17475.00	38.35	13.71	52.06	74.00	-21.94	Peak	Horizontal
4	17475.00	25.14	13.71	38.85	54.00	-15.15	Average	Horizontal
5	11650.00	39.26	6.68	45.94	74.00	-28.06	Peak	Vertical
6	11650.00	27.39	6.68	34.07	54.00	-19.93	Average	Vertical
7	17475.00	37.49	13.73	51.22	74.00	-22.78	Peak	Vertical
8	17475.00	24.88	13.73	38.61	54.00	-15.39	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 36

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10360.00	39.63	5.58	45.21	74.00	-28.79	Peak	Horizontal
2	10360.00	27.87	5.58	33.45	54.00	-20.55	Average	Horizontal
3	15540.00	38.72	10.97	49.69	74.00	-24.31	Peak	Horizontal
4	15540.00	25.90	10.97	36.87	54.00	-17.13	Average	Horizontal
5	10360.00	42.24	5.74	47.98	74.00	-26.02	Peak	Vertical
6	10360.00	29.46	5.74	35.20	54.00	-18.80	Average	Vertical
7	15540.00	39.95	9.42	49.37	74.00	-24.63	Peak	Vertical
8	15540.00	27.63	9.42	37.05	54.00	-16.95	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 44

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10440.00	36.96	5.68	42.64	74.00	-31.36	Peak	Horizontal
2	10440.00	25.80	5.68	31.48	54.00	-22.52	Average	Horizontal
3	15660.00	38.67	11.10	49.77	74.00	-24.23	Peak	Horizontal
4	15660.00	26.18	11.10	37.28	54.00	-16.72	Average	Horizontal
5	10440.00	41.81	5.80	47.61	74.00	-26.39	Peak	Vertical
6	10440.00	29.64	5.80	35.44	54.00	-18.56	Average	Vertical
7	15660.00	39.24	11.20	50.44	74.00	-23.56	Peak	Vertical
8	15660.00	26.18	11.20	37.38	54.00	-16.62	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 48

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10480.00	38.06	5.72	43.78	74.00	-30.22	Peak	Horizontal
2	10480.00	25.25	5.72	30.97	54.00	-23.03	Average	Horizontal
3	15720.00	39.02	11.18	50.20	74.00	-23.80	Peak	Horizontal
4	15720.00	26.42	11.18	37.60	54.00	-16.40	Average	Horizontal
5	10480.00	40.42	5.83	46.25	74.00	-27.75	Peak	Vertical
6	10480.00	28.42	5.83	34.25	54.00	-19.75	Average	Vertical
7	15720.00	39.19	11.28	50.47	74.00	-23.53	Peak	Vertical
8	15720.00	26.42	11.28	37.70	54.00	-16.30	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 52

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10520.00	36.85	5.72	42.57	74.00	-31.43	Peak	Horizontal
2	10520.00	24.98	5.72	30.70	54.00	-23.30	Average	Horizontal
3	15780.00	38.41	11.26	49.67	74.00	-24.33	Peak	Horizontal
4	15780.00	26.41	11.26	37.67	54.00	-16.33	Average	Horizontal
5	10520.00	41.55	5.83	47.38	74.00	-26.62	Peak	Vertical
6	10520.00	28.53	5.83	34.36	54.00	-19.64	Average	Vertical
7	15780.00	38.79	11.36	50.15	74.00	-23.85	Peak	Vertical
8	15780.00	26.41	11.36	37.77	54.00	-16.23	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 60

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10600.00	38.43	5.66	44.09	74.00	-29.91	Peak	Horizontal
2	10600.00	26.14	5.66	31.80	54.00	-22.20	Average	Horizontal
3	15900.00	39.24	11.41	50.65	74.00	-23.35	Peak	Horizontal
4	15900.00	26.13	11.41	37.54	54.00	-16.46	Average	Horizontal
5	10600.00	41.26	6.58	47.84	74.00	-26.16	Peak	Vertical
6	10600.00	27.08	6.58	33.66	54.00	-20.34	Average	Vertical
7	15900.00	38.78	11.51	50.29	74.00	-23.71	Peak	Vertical
8	15900.00	26.13	11.51	37.64	54.00	-16.36	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 64

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10640.00	37.97	5.63	43.60	74.00	-30.40	Peak	Horizontal
2	10640.00	25.34	5.63	30.97	54.00	-23.03	Average	Horizontal
3	15960.00	38.48	11.47	49.95	74.00	-24.05	Peak	Horizontal
4	15960.00	26.00	11.47	37.47	54.00	-16.53	Average	Horizontal
5	10640.00	39.10	5.76	44.86	74.00	-29.14	Peak	Vertical
6	10640.00	27.54	5.76	33.30	54.00	-20.70	Average	Vertical
7	15960.00	38.54	11.57	50.11	74.00	-23.89	Peak	Vertical
8	15960.00	26.07	11.57	37.64	54.00	-16.36	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 100

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11000.00	38.52	5.32	43.84	74.00	-30.16	Peak	Horizontal
2	11000.00	26.31	5.32	31.63	54.00	-22.37	Average	Horizontal
3	16500.00	38.01	12.55	50.56	74.00	-23.44	Peak	Horizontal
4	16500.00	25.73	12.55	38.28	54.00	-15.72	Average	Horizontal
5	11000.00	42.23	5.52	47.75	74.00	-26.25	Peak	Vertical
6	11000.00	29.40	5.52	34.92	54.00	-19.08	Average	Vertical
7	16500.00	38.19	13.65	51.84	74.00	-22.16	Peak	Vertical
8	16500.00	25.00	13.65	38.65	54.00	-15.35	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 116

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11160.00	37.66	5.57	43.23	74.00	-30.77	Peak	Horizontal
2	11160.00	24.81	5.57	30.38	54.00	-23.62	Average	Horizontal
3	16740.00	38.71	12.37	51.08	74.00	-22.92	Peak	Horizontal
4	16740.00	26.34	12.37	38.71	54.00	-15.29	Average	Horizontal
5	11160.00	38.77	5.74	44.51	74.00	-29.49	Peak	Vertical
6	11160.00	27.18	5.74	32.92	54.00	-21.08	Average	Vertical
7	16740.00	38.03	12.63	50.66	74.00	-23.34	Peak	Vertical
8	16740.00	26.20	12.63	38.83	54.00	-15.17	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 140

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11400.00	39.31	5.93	45.24	74.00	-28.76	Peak	Horizontal
2	11400.00	27.71	5.93	33.64	54.00	-20.36	Average	Horizontal
3	17100.00	36.58	12.50	49.08	74.00	-24.92	Peak	Horizontal
4	17100.00	24.39	12.50	36.89	54.00	-17.11	Average	Horizontal
5	11400.00	40.33	6.05	46.38	74.00	-27.62	Peak	Vertical
6	11400.00	27.71	6.05	33.76	54.00	-20.24	Average	Vertical
7	17100.00	36.86	12.66	49.52	74.00	-24.48	Peak	Vertical
8	17100.00	24.57	12.66	37.23	54.00	-16.77	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 149

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11490.00	37.17	6.07	43.24	74.00	-30.76	Peak	Horizontal
2	11490.00	27.50	6.07	33.57	54.00	-20.43	Average	Horizontal
3	17235.00	36.39	12.94	49.33	74.00	-24.67	Peak	Horizontal
4	17235.00	25.50	12.94	38.44	54.00	-15.56	Average	Horizontal
5	11490.00	40.12	6.17	46.29	74.00	-27.71	Peak	Vertical
6	11490.00	27.69	6.17	33.86	54.00	-20.14	Average	Vertical
7	17235.00	37.87	13.04	50.91	74.00	-23.09	Peak	Vertical
8	17235.00	25.49	13.04	38.53	54.00	-15.47	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 157

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11570.00	37.75	7.09	44.84	74.00	-29.16	Peak	Horizontal
2	11570.00	24.76	7.09	31.85	54.00	-22.15	Average	Horizontal
3	17355.00	39.61	13.32	52.93	74.00	-21.07	Peak	Horizontal
4	17355.00	26.12	13.32	39.44	54.00	-14.56	Average	Horizontal
5	11570.00	38.74	6.42	45.16	74.00	-28.84	Peak	Vertical
6	11570.00	26.64	6.42	33.06	54.00	-20.94	Average	Vertical
7	17355.00	37.57	13.38	50.95	74.00	-23.05	Peak	Vertical
8	17355.00	25.89	13.38	39.27	54.00	-14.73	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT20_Channel 165

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11650.00	38.81	6.52	45.33	74.00	-28.67	Peak	Horizontal
2	11650.00	26.12	6.52	32.64	54.00	-21.36	Average	Horizontal
3	17475.00	38.06	13.71	51.77	74.00	-22.23	Peak	Horizontal
4	17475.00	25.06	13.71	38.77	54.00	-15.23	Average	Horizontal
5	11650.00	38.92	6.68	45.60	74.00	-28.40	Peak	Vertical
6	11650.00	26.88	6.68	33.56	54.00	-20.44	Average	Vertical
7	17475.00	37.54	13.73	51.27	74.00	-22.73	Peak	Vertical
8	17475.00	25.05	13.73	38.78	54.00	-15.22	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT40_Channel 38

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10380.00	37.68	5.60	43.28	74.00	-30.72	Peak	Horizontal
2	10380.00	23.93	5.60	29.53	54.00	-24.47	Average	Horizontal
3	15570.00	38.85	10.99	49.84	74.00	-24.16	Peak	Horizontal
4	15570.00	26.03	10.99	37.02	54.00	-16.98	Average	Horizontal
5	10380.00	37.83	5.75	43.58	74.00	-30.42	Peak	Vertical
6	10380.00	26.98	5.75	32.73	54.00	-21.27	Average	Vertical
7	15570.00	39.98	9.18	49.16	74.00	-24.84	Peak	Vertical
8	15570.00	27.94	9.18	37.12	54.00	-16.88	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT40_Channel 46

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10460.00	38.73	5.70	44.43	74.00	-29.57	Peak	Horizontal
2	10460.00	26.49	5.70	32.19	54.00	-21.81	Average	Horizontal
3	15690.00	38.82	11.15	49.97	74.00	-24.03	Peak	Horizontal
4	15690.00	26.47	11.15	37.62	54.00	-16.38	Average	Horizontal
5	10460.00	38.34	5.82	44.16	74.00	-29.84	Peak	Vertical
6	10460.00	25.55	5.82	31.37	54.00	-22.63	Average	Vertical
7	15690.00	38.29	11.25	49.54	74.00	-24.46	Peak	Vertical
8	15690.00	26.27	11.25	37.52	54.00	-16.48	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT40_Channel 54

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10540.00	37.71	5.71	43.42	74.00	-30.58	Peak	Horizontal
2	10540.00	25.93	5.71	31.64	54.00	-22.36	Average	Horizontal
3	15810.00	38.39	11.29	49.68	74.00	-24.32	Peak	Horizontal
4	15810.00	25.47	11.29	36.76	54.00	-17.24	Average	Horizontal
5	10540.00	38.27	5.82	44.09	74.00	-29.91	Peak	Vertical
6	10540.00	25.56	5.82	31.38	54.00	-22.62	Average	Vertical
7	15810.00	39.15	11.39	50.54	74.00	-23.46	Peak	Vertical
8	15810.00	25.55	11.39	36.94	54.00	-17.06	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT40_Channel 62

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10620.00	38.06	5.64	43.70	74.00	-30.30	Peak	Horizontal
2	10620.00	26.51	5.64	32.15	54.00	-21.85	Average	Horizontal
3	15930.00	37.81	11.45	49.26	74.00	-24.74	Peak	Horizontal
4	15930.00	25.58	11.45	37.03	54.00	-16.97	Average	Horizontal
5	10620.00	38.30	5.77	44.07	74.00	-29.93	Peak	Vertical
6	10620.00	26.01	5.77	31.78	54.00	-22.22	Average	Vertical
7	15930.00	37.88	11.55	49.43	74.00	-24.57	Peak	Vertical
8	15930.00	25.50	11.55	37.05	54.00	-16.95	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT40_Channel 102

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11020.00	38.89	5.35	44.24	74.00	-29.76	Peak	Horizontal
2	11020.00	27.08	5.35	32.43	54.00	-21.57	Average	Horizontal
3	16530.00	38.38	12.54	50.92	74.00	-23.08	Peak	Horizontal
4	16530.00	25.89	12.54	38.43	54.00	-15.57	Average	Horizontal
5	11020.00	39.16	5.54	44.70	74.00	-29.30	Peak	Vertical
6	11020.00	26.83	5.54	32.37	54.00	-21.63	Average	Vertical
7	16530.00	38.21	12.83	51.04	74.00	-22.96	Peak	Vertical
8	16530.00	25.75	12.83	38.58	54.00	-15.42	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT40_Channel 110

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11100.00	38.55	5.47	44.02	74.00	-29.98	Peak	Horizontal
2	11100.00	26.14	5.47	31.61	54.00	-22.39	Average	Horizontal
3	16650.00	37.85	12.44	50.29	74.00	-23.71	Peak	Horizontal
4	16650.00	25.77	12.44	38.21	54.00	-15.79	Average	Horizontal
5	11100.00	38.47	5.65	44.12	74.00	-29.88	Peak	Vertical
6	11100.00	25.99	5.65	31.64	54.00	-22.36	Average	Vertical
7	16650.00	38.09	12.71	50.80	74.00	-23.20	Peak	Vertical
8	16650.00	25.68	12.71	38.39	54.00	-15.61	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT40_Channel 134

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11340.00	39.59	5.84	45.43	74.00	-28.57	Peak	Horizontal
2	11340.00	26.69	5.84	32.53	54.00	-21.47	Average	Horizontal
3	17010.00	38.53	12.21	50.74	74.00	-23.26	Peak	Horizontal
4	17010.00	25.16	12.21	37.37	54.00	-16.63	Average	Horizontal
5	11340.00	38.65	5.97	44.62	74.00	-29.38	Peak	Vertical
6	11340.00	26.70	5.97	32.67	54.00	-21.33	Average	Vertical
7	17010.00	38.36	12.41	50.77	74.00	-23.23	Peak	Vertical
8	17010.00	25.17	12.41	37.58	54.00	-16.42	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT40_Channel 151

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11510.00	39.41	6.11	45.52	74.00	-28.48	Peak	Horizontal
2	11510.00	27.28	6.11	33.39	54.00	-20.61	Average	Horizontal
3	17265.00	37.18	13.04	50.22	74.00	-23.78	Peak	Horizontal
4	17265.00	24.58	13.04	37.62	54.00	-16.38	Average	Horizontal
5	11510.00	39.25	6.21	45.46	74.00	-28.54	Peak	Vertical
6	11510.00	26.77	6.21	32.98	54.00	-21.02	Average	Vertical
7	17265.00	37.39	13.14	50.53	74.00	-23.47	Peak	Vertical
8	17265.00	24.65	13.14	37.79	54.00	-16.21	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11n-HT40_Channel 159

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11590.00	38.55	6.35	44.90	74.00	-29.10	Peak	Horizontal
2	11590.00	26.16	6.35	32.51	54.00	-21.49	Average	Horizontal
3	17385.00	37.68	13.42	51.10	74.00	-22.90	Peak	Horizontal
4	17385.00	25.65	13.42	39.07	54.00	-14.93	Average	Horizontal
5	11590.00	38.07	6.49	44.56	74.00	-29.44	Peak	Vertical
6	11590.00	25.94	6.49	32.43	54.00	-21.57	Average	Vertical
7	17385.00	37.64	13.46	51.10	74.00	-22.90	Peak	Vertical
8	17385.00	25.66	13.46	39.12	54.00	-14.88	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax20_Channel 36

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10360.00	36.93	5.58	42.51	74.00	-31.49	Peak	Horizontal
2	10360.00	25.31	5.58	30.89	54.00	-23.11	Average	Horizontal
3	15540.00	38.46	10.97	49.43	74.00	-24.57	Peak	Horizontal
4	15540.00	26.05	10.97	37.02	54.00	-16.98	Average	Horizontal
5	10360.00	37.48	5.74	43.22	74.00	-30.78	Peak	Vertical
6	10360.00	26.71	5.74	32.45	54.00	-21.55	Average	Vertical
7	15540.00	38.00	11.07	49.07	74.00	-24.93	Peak	Vertical
8	15540.00	26.19	11.07	37.26	54.00	-16.74	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax20_Channel 44

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10440.00	38.11	5.68	43.79	74.00	-30.21	Peak	Horizontal
2	10440.00	24.85	5.68	30.53	54.00	-23.47	Average	Horizontal
3	15660.00	38.83	11.10	49.93	74.00	-24.07	Peak	Horizontal
4	15660.00	26.46	11.10	37.56	54.00	-16.44	Average	Horizontal
5	10440.00	36.24	5.80	42.04	74.00	-31.96	Peak	Vertical
6	10440.00	26.17	5.80	31.97	54.00	-22.03	Average	Vertical
7	15660.00	39.11	11.20	50.31	74.00	-23.69	Peak	Vertical
8	15660.00	26.52	11.20	37.72	54.00	-16.28	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax20_Channel 48

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10480.00	36.94	5.72	42.66	74.00	-31.34	Peak	Horizontal
2	10480.00	26.26	5.72	31.98	54.00	-22.02	Average	Horizontal
3	15720.00	39.29	11.18	50.47	74.00	-23.53	Peak	Horizontal
4	15720.00	26.21	11.18	37.39	54.00	-16.61	Average	Horizontal
5	10480.00	37.02	5.83	42.85	74.00	-31.15	Peak	Vertical
6	10480.00	26.39	5.83	32.22	54.00	-21.78	Average	Vertical
7	15720.00	38.68	11.28	49.96	74.00	-24.04	Peak	Vertical
8	15720.00	26.14	11.28	37.42	54.00	-16.58	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax20_Channel 52

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10520.00	36.30	5.72	42.02	74.00	-31.98	Peak	Horizontal
2	10520.00	25.26	5.72	30.98	54.00	-23.02	Average	Horizontal
3	15780.00	37.90	11.26	49.16	74.00	-24.84	Peak	Horizontal
4	15780.00	26.06	11.26	37.32	54.00	-16.68	Average	Horizontal
5	10520.00	37.33	5.83	43.16	74.00	-30.84	Peak	Vertical
6	10520.00	24.93	5.83	30.76	54.00	-23.24	Average	Vertical
7	15780.00	38.35	11.36	49.71	74.00	-24.29	Peak	Vertical
8	15780.00	26.06	11.36	37.42	54.00	-16.58	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax20_Channel 60

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10600.00	39.80	5.66	45.46	74.00	-28.54	Peak	Horizontal
2	10600.00	24.90	5.66	30.56	54.00	-23.44	Average	Horizontal
3	15900.00	38.46	11.41	49.87	74.00	-24.13	Peak	Horizontal
4	15900.00	25.54	11.41	36.95	54.00	-17.05	Average	Horizontal
5	10600.00	37.99	5.78	43.77	74.00	-30.23	Peak	Vertical
6	10600.00	25.88	5.78	31.66	54.00	-22.34	Average	Vertical
7	15900.00	37.99	11.51	49.50	74.00	-24.50	Peak	Vertical
8	15900.00	25.54	11.51	37.05	54.00	-16.95	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax20_Channel 64

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10640.00	37.97	5.63	43.60	74.00	-30.40	Peak	Horizontal
2	10640.00	26.15	5.63	31.78	54.00	-22.22	Average	Horizontal
3	15960.00	37.42	11.47	48.89	74.00	-25.11	Peak	Horizontal
4	15960.00	25.48	11.47	36.95	54.00	-17.05	Average	Horizontal
5	10640.00	37.11	5.76	42.87	74.00	-31.13	Peak	Vertical
6	10640.00	25.81	5.76	31.57	54.00	-22.43	Average	Vertical
7	15960.00	37.97	11.57	49.54	74.00	-24.46	Peak	Vertical
8	15960.00	25.48	11.57	37.05	54.00	-16.95	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax20_Channel 100

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11000.00	37.93	5.32	43.25	74.00	-30.75	Peak	Horizontal
2	11000.00	25.65	5.32	30.97	54.00	-23.03	Average	Horizontal
3	16500.00	38.47	12.55	51.02	74.00	-22.98	Peak	Horizontal
4	16500.00	25.73	12.55	38.28	54.00	-15.72	Average	Horizontal
5	11000.00	38.20	5.52	43.72	74.00	-30.28	Peak	Vertical
6	11000.00	26.44	5.52	31.96	54.00	-22.04	Average	Vertical
7	16500.00	38.06	12.85	50.91	74.00	-23.09	Peak	Vertical
8	16500.00	25.80	12.85	38.65	54.00	-15.35	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax20_Channel 116

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11160.00	37.43	5.57	43.00	74.00	-31.00	Peak	Horizontal
2	11160.00	25.37	5.57	30.94	54.00	-23.06	Average	Horizontal
3	16740.00	38.26	12.37	50.63	74.00	-23.37	Peak	Horizontal
4	16740.00	25.91	12.37	38.28	54.00	-15.72	Average	Horizontal
5	11160.00	38.26	5.74	44.00	74.00	-30.00	Peak	Vertical
6	11160.00	25.68	5.74	31.42	54.00	-22.58	Average	Vertical
7	16740.00	38.58	12.63	51.21	74.00	-22.79	Peak	Vertical
8	16740.00	25.84	12.63	38.47	54.00	-15.53	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax20_Channel 140

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11400.00	39.66	5.93	45.59	74.00	-28.41	Peak	Horizontal
2	11400.00	27.47	5.93	33.40	54.00	-20.60	Average	Horizontal
3	17100.00	37.02	12.50	49.52	74.00	-24.48	Peak	Horizontal
4	17100.00	24.73	12.50	37.23	54.00	-16.77	Average	Horizontal
5	11400.00	39.04	6.05	45.09	74.00	-28.91	Peak	Vertical
6	11400.00	26.77	6.05	32.82	54.00	-21.18	Average	Vertical
7	17100.00	37.29	12.66	49.95	74.00	-24.05	Peak	Vertical
8	17100.00	24.65	12.66	37.31	54.00	-16.69	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax20_Channel 149

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11490.00	39.82	6.07	45.89	74.00	-28.11	Peak	Horizontal
2	11490.00	27.50	6.07	33.57	54.00	-20.43	Average	Horizontal
3	17235.00	37.48	12.94	50.42	74.00	-23.58	Peak	Horizontal
4	17235.00	24.77	12.94	37.71	54.00	-16.29	Average	Horizontal
5	11490.00	38.90	6.17	45.07	74.00	-28.93	Peak	Vertical
6	11490.00	26.81	6.17	32.98	54.00	-21.02	Average	Vertical
7	17235.00	37.23	13.04	50.27	74.00	-23.73	Peak	Vertical
8	17235.00	24.75	13.04	37.79	54.00	-16.21	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax20_Channel 157

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11570.00	38.68	6.29	44.97	74.00	-29.03	Peak	Horizontal
2	11570.00	26.50	6.29	32.79	54.00	-21.21	Average	Horizontal
3	17355.00	38.11	13.32	51.43	74.00	-22.57	Peak	Horizontal
4	17355.00	25.90	13.32	39.22	54.00	-14.78	Average	Horizontal
5	11570.00	38.29	6.42	44.71	74.00	-29.29	Peak	Vertical
6	11570.00	25.94	6.42	32.36	54.00	-21.64	Average	Vertical
7	17355.00	38.19	13.38	51.57	74.00	-22.43	Peak	Vertical
8	17355.00	26.04	13.38	39.42	54.00	-14.58	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax20_Channel 165

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11650.00	39.91	6.52	46.43	74.00	-27.57	Peak	Horizontal
2	11650.00	26.81	6.52	33.33	54.00	-20.67	Average	Horizontal
3	17475.00	38.23	13.71	51.94	74.00	-22.06	Peak	Horizontal
4	17475.00	26.18	13.71	39.89	54.00	-14.11	Average	Horizontal
5	11650.00	39.11	6.68	45.79	74.00	-28.21	Peak	Vertical
6	11650.00	26.19	6.68	32.87	54.00	-21.13	Average	Vertical
7	17475.00	38.61	13.73	52.34	74.00	-21.66	Peak	Vertical
8	17475.00	25.37	13.73	39.10	54.00	-14.90	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax40_Channel 38

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10380.00	38.92	5.60	44.52	74.00	-29.48	Peak	Horizontal
2	10380.00	23.83	5.60	29.43	54.00	-24.57	Average	Horizontal
3	15570.00	37.92	10.99	48.91	74.00	-25.09	Peak	Horizontal
4	15570.00	26.90	10.99	37.89	54.00	-16.11	Average	Horizontal
5	10380.00	39.92	5.75	45.67	74.00	-28.33	Peak	Vertical
6	10380.00	27.36	5.75	33.11	54.00	-20.89	Average	Vertical
7	15570.00	37.98	11.09	49.07	74.00	-24.93	Peak	Vertical
8	15570.00	25.96	11.09	37.05	54.00	-16.95	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax40_Channel 46

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10460.00	36.89	5.70	42.59	74.00	-31.41	Peak	Horizontal
2	10460.00	23.20	5.70	28.90	54.00	-25.10	Average	Horizontal
3	15690.00	38.77	11.15	49.92	74.00	-24.08	Peak	Horizontal
4	15690.00	26.34	11.15	37.49	54.00	-16.51	Average	Horizontal
5	10460.00	37.97	5.82	43.79	74.00	-30.21	Peak	Vertical
6	10460.00	26.83	5.82	32.65	54.00	-21.35	Average	Vertical
7	15690.00	38.46	11.25	49.71	74.00	-24.29	Peak	Vertical
8	15690.00	26.27	11.25	37.52	54.00	-16.48	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax40_Channel 54

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10540.00	37.85	5.71	43.56	74.00	-30.44	Peak	Horizontal
2	10540.00	25.04	5.71	30.75	54.00	-23.25	Average	Horizontal
3	15810.00	39.24	11.29	50.53	74.00	-23.47	Peak	Horizontal
4	15810.00	25.55	11.29	36.84	54.00	-17.16	Average	Horizontal
5	10540.00	38.33	5.82	44.15	74.00	-29.85	Peak	Vertical
6	10540.00	26.76	5.82	32.58	54.00	-21.42	Average	Vertical
7	15810.00	37.63	12.19	49.82	74.00	-24.18	Peak	Vertical
8	15810.00	24.67	12.19	36.86	54.00	-17.14	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax40_Channel 62

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10620.00	38.01	5.64	43.65	74.00	-30.35	Peak	Horizontal
2	10620.00	25.06	5.64	30.70	54.00	-23.30	Average	Horizontal
3	15930.00	37.94	11.45	49.39	74.00	-24.61	Peak	Horizontal
4	15930.00	25.50	11.45	36.95	54.00	-17.05	Average	Horizontal
5	10620.00	38.20	5.77	43.97	74.00	-30.03	Peak	Vertical
6	10620.00	26.50	5.77	32.27	54.00	-21.73	Average	Vertical
7	15930.00	38.22	11.55	49.77	74.00	-24.23	Peak	Vertical
8	15930.00	25.42	11.55	36.97	54.00	-17.03	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax40_Channel 102

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11020.00	39.60	5.35	44.95	74.00	-29.05	Peak	Horizontal
2	11020.00	26.00	5.35	31.35	54.00	-22.65	Average	Horizontal
3	16530.00	38.14	12.54	50.68	74.00	-23.32	Peak	Horizontal
4	16530.00	25.74	12.54	38.28	54.00	-15.72	Average	Horizontal
5	11020.00	39.44	5.54	44.98	74.00	-29.02	Peak	Vertical
6	11020.00	27.52	5.54	33.06	54.00	-20.94	Average	Vertical
7	16530.00	38.30	12.83	51.13	74.00	-22.87	Peak	Vertical
8	16530.00	25.75	12.83	38.58	54.00	-15.42	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax40_Channel 110

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11100.00	37.61	5.47	43.08	74.00	-30.92	Peak	Horizontal
2	11100.00	26.17	5.47	31.64	54.00	-22.36	Average	Horizontal
3	16650.00	37.97	12.44	50.41	74.00	-23.59	Peak	Horizontal
4	16650.00	25.69	12.44	38.13	54.00	-15.87	Average	Horizontal
5	11100.00	38.23	5.65	43.88	74.00	-30.12	Peak	Vertical
6	11100.00	26.28	5.65	31.93	54.00	-22.07	Average	Vertical
7	16650.00	38.27	12.71	50.98	74.00	-23.02	Peak	Vertical
8	16650.00	25.61	12.71	38.32	54.00	-15.68	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax40_Channel 134

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11340.00	40.91	5.84	46.75	74.00	-27.25	Peak	Horizontal
2	11340.00	27.78	5.84	33.62	54.00	-20.38	Average	Horizontal
3	17010.00	37.48	9.21	46.69	74.00	-27.31	Peak	Horizontal
4	17010.00	28.08	9.21	37.29	54.00	-16.71	Average	Horizontal
5	11340.00	38.33	5.97	44.30	74.00	-29.70	Peak	Vertical
6	11340.00	26.83	5.97	32.80	54.00	-21.20	Average	Vertical
7	17010.00	37.65	12.41	50.06	74.00	-23.94	Peak	Vertical
8	17010.00	25.00	12.41	37.41	54.00	-16.59	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax40_Channel 151

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11510.00	39.50	6.11	45.61	74.00	-28.39	Peak	Horizontal
2	11510.00	26.35	6.11	32.46	54.00	-21.54	Average	Horizontal
3	17265.00	37.02	13.04	50.06	74.00	-23.94	Peak	Horizontal
4	17265.00	24.67	13.04	37.71	54.00	-16.29	Average	Horizontal
5	11510.00	40.04	6.21	46.25	74.00	-27.75	Peak	Vertical
6	11510.00	27.09	6.21	33.30	54.00	-20.70	Average	Vertical
7	17265.00	36.95	13.94	50.89	74.00	-23.11	Peak	Vertical
8	17265.00	23.77	13.94	37.71	54.00	-16.29	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax40_Channel 159

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11590.00	38.18	6.35	44.53	74.00	-29.47	Peak	Horizontal
2	11590.00	25.34	6.35	31.69	54.00	-22.31	Average	Horizontal
3	17385.00	41.48	10.67	52.15	74.00	-21.85	Peak	Horizontal
4	17385.00	28.55	10.67	39.22	54.00	-14.78	Average	Horizontal
5	11590.00	38.25	6.49	44.74	74.00	-29.26	Peak	Vertical
6	11590.00	26.16	6.49	32.65	54.00	-21.35	Average	Vertical
7	17385.00	37.53	13.46	50.99	74.00	-23.01	Peak	Vertical
8	17385.00	25.73	13.46	39.19	54.00	-14.81	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ac-VHT80_Channel 42

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10460.00	38.65	5.66	44.31	74.00	-29.69	Peak	Horizontal
2	10460.00	24.92	5.66	30.58	54.00	-23.42	Average	Horizontal
3	15690.00	39.22	11.07	50.29	74.00	-23.71	Peak	Horizontal
4	15690.00	26.55	11.07	37.62	54.00	-16.38	Average	Horizontal
5	10460.00	39.49	5.79	45.28	74.00	-28.72	Peak	Vertical
6	10460.00	27.18	5.79	32.97	54.00	-21.03	Average	Vertical
7	15690.00	38.44	11.17	49.61	74.00	-24.39	Peak	Vertical
8	15690.00	26.49	11.17	37.66	54.00	-16.34	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ac-VHT80_Channel 58

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10580.00	37.17	5.68	42.85	74.00	-31.15	Peak	Horizontal
2	10580.00	23.70	5.68	29.38	54.00	-24.62	Average	Horizontal
3	15870.00	37.88	11.37	49.25	74.00	-24.75	Peak	Horizontal
4	15870.00	25.47	11.37	36.84	54.00	-17.16	Average	Horizontal
5	10580.00	39.55	5.79	45.34	74.00	-28.66	Peak	Vertical
6	10580.00	26.79	5.79	32.58	54.00	-21.42	Average	Vertical
7	15870.00	37.39	11.47	48.86	74.00	-25.14	Peak	Vertical
8	15870.00	25.39	11.47	36.86	54.00	-17.14	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ac-VHT80_Channel 106

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11060.00	39.09	5.41	44.50	74.00	-29.50	Peak	Horizontal
2	11060.00	24.03	5.41	29.44	54.00	-24.56	Average	Horizontal
3	16590.00	38.16	12.49	50.65	74.00	-23.35	Peak	Horizontal
4	16590.00	25.33	12.49	37.82	54.00	-16.18	Average	Horizontal
5	11060.00	39.65	5.60	45.25	74.00	-28.75	Peak	Vertical
6	11060.00	27.49	5.60	33.09	54.00	-20.91	Average	Vertical
7	16590.00	38.67	12.78	51.45	74.00	-22.55	Peak	Vertical
8	16590.00	25.40	12.78	38.18	54.00	-15.82	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ac-VHT80_Channel 155

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11550.00	38.46	6.23	44.69	74.00	-29.31	Peak	Horizontal
2	11550.00	26.01	6.23	32.24	54.00	-21.76	Average	Horizontal
3	17325.00	36.91	13.23	50.14	74.00	-23.86	Peak	Horizontal
4	17325.00	24.48	13.23	37.71	54.00	-16.29	Average	Horizontal
5	11550.00	36.69	9.35	46.04	74.00	-27.96	Peak	Vertical
6	11550.00	24.33	9.35	33.68	54.00	-20.32	Average	Vertical
7	17325.00	37.20	13.29	50.49	74.00	-23.51	Peak	Vertical
8	17325.00	24.42	13.29	37.71	54.00	-16.29	Average	Vertical

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MIMO_Chain 0+1_ IEEE 802.11ax80_Channel 42

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10460.00	38.11	5.66	43.77	74.00	-30.23	Peak	Horizontal
2	10460.00	24.79	5.66	30.45	54.00	-23.55	Average	Horizontal
3	15690.00	38.30	11.07	49.37	74.00	-24.63	Peak	Horizontal
4	15690.00	26.49	11.07	37.56	54.00	-16.44	Average	Horizontal
5	10460.00	39.55	5.79	45.34	74.00	-28.66	Peak	Vertical
6	10460.00	27.12	5.79	32.91	54.00	-21.09	Average	Vertical
7	15690.00	38.73	11.17	49.90	74.00	-24.10	Peak	Vertical
8	15690.00	26.35	11.17	37.52	54.00	-16.48	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax80_Channel 58

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10580.00	36.55	5.68	42.23	74.00	-31.77	Peak	Horizontal
2	10580.00	24.84	5.68	30.52	54.00	-23.48	Average	Horizontal
3	15870.00	37.81	11.37	49.18	74.00	-24.82	Peak	Horizontal
4	15870.00	25.31	11.37	36.68	54.00	-17.32	Average	Horizontal
5	10580.00	39.57	5.79	45.36	74.00	-28.64	Peak	Vertical
6	10580.00	26.73	5.79	32.52	54.00	-21.48	Average	Vertical
7	15870.00	38.15	11.47	49.62	74.00	-24.38	Peak	Vertical
8	15870.00	25.31	11.47	36.78	54.00	-17.22	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax80_Channel 106

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11060.00	37.27	5.41	42.68	74.00	-31.32	Peak	Horizontal
2	11060.00	24.29	5.41	29.70	54.00	-24.30	Average	Horizontal
3	16590.00	38.34	12.49	50.83	74.00	-23.17	Peak	Horizontal
4	16590.00	25.25	12.49	37.74	54.00	-16.26	Average	Horizontal
5	11060.00	40.18	5.60	45.78	74.00	-28.22	Peak	Vertical
6	11060.00	27.36	5.60	32.96	54.00	-21.04	Average	Vertical
7	16590.00	37.80	12.78	50.58	74.00	-23.42	Peak	Vertical
8	16590.00	25.17	12.78	37.95	54.00	-16.05	Average	Vertical

MIMO_Chain 0+1_ IEEE 802.11ax80_Channel 155

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11550.00	38.20	6.23	44.43	74.00	-29.57	Peak	Horizontal
2	11550.00	26.01	6.23	32.24	54.00	-21.76	Average	Horizontal
3	17325.00	37.27	13.23	50.50	74.00	-23.50	Peak	Horizontal
4	17325.00	24.39	13.23	37.62	54.00	-16.38	Average	Horizontal
5	11550.00	39.11	6.35	45.46	74.00	-28.54	Peak	Vertical
6	11550.00	27.45	6.35	33.80	54.00	-20.20	Average	Vertical
7	17325.00	41.53	9.23	50.76	74.00	-23.24	Peak	Vertical
8	17325.00	28.56	9.23	37.79	54.00	-16.21	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

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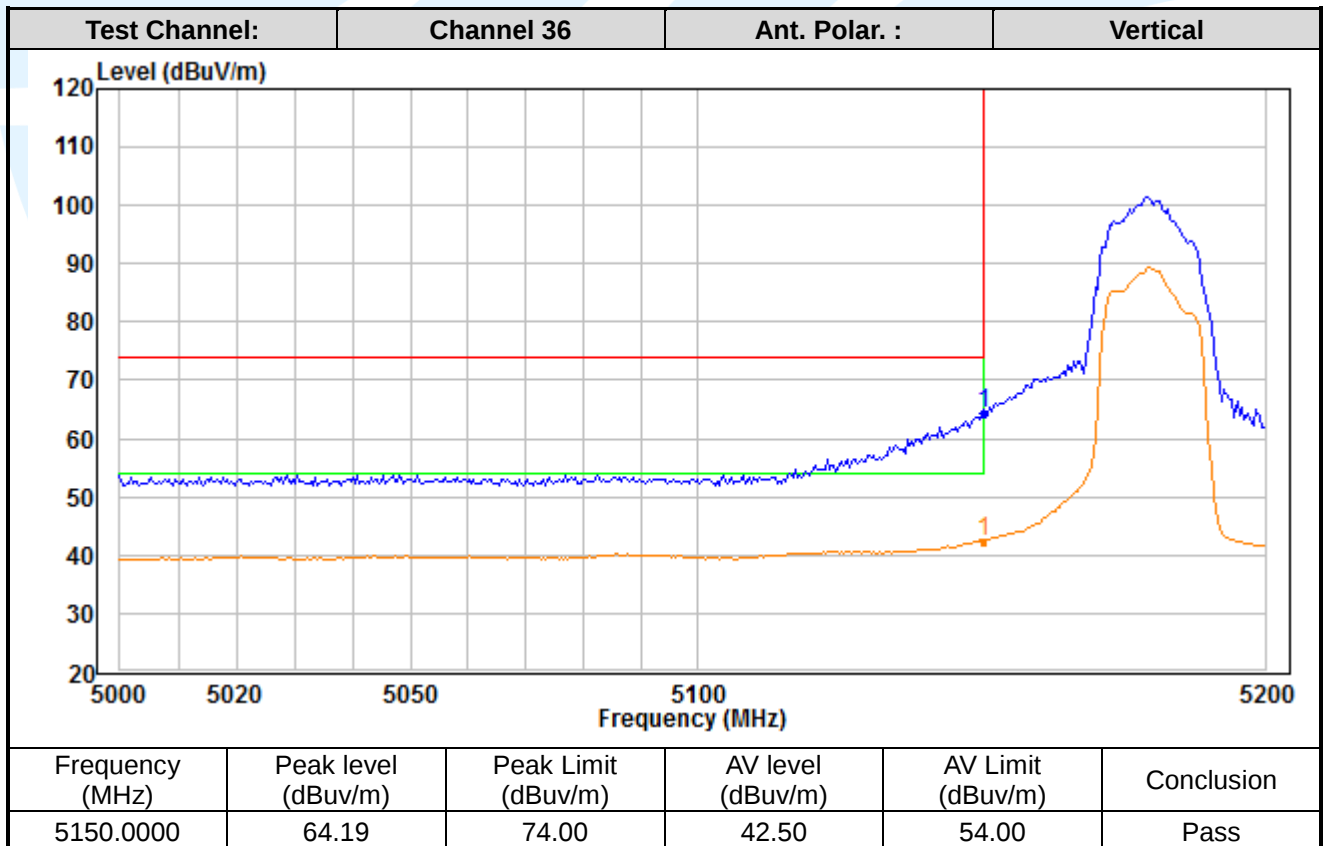
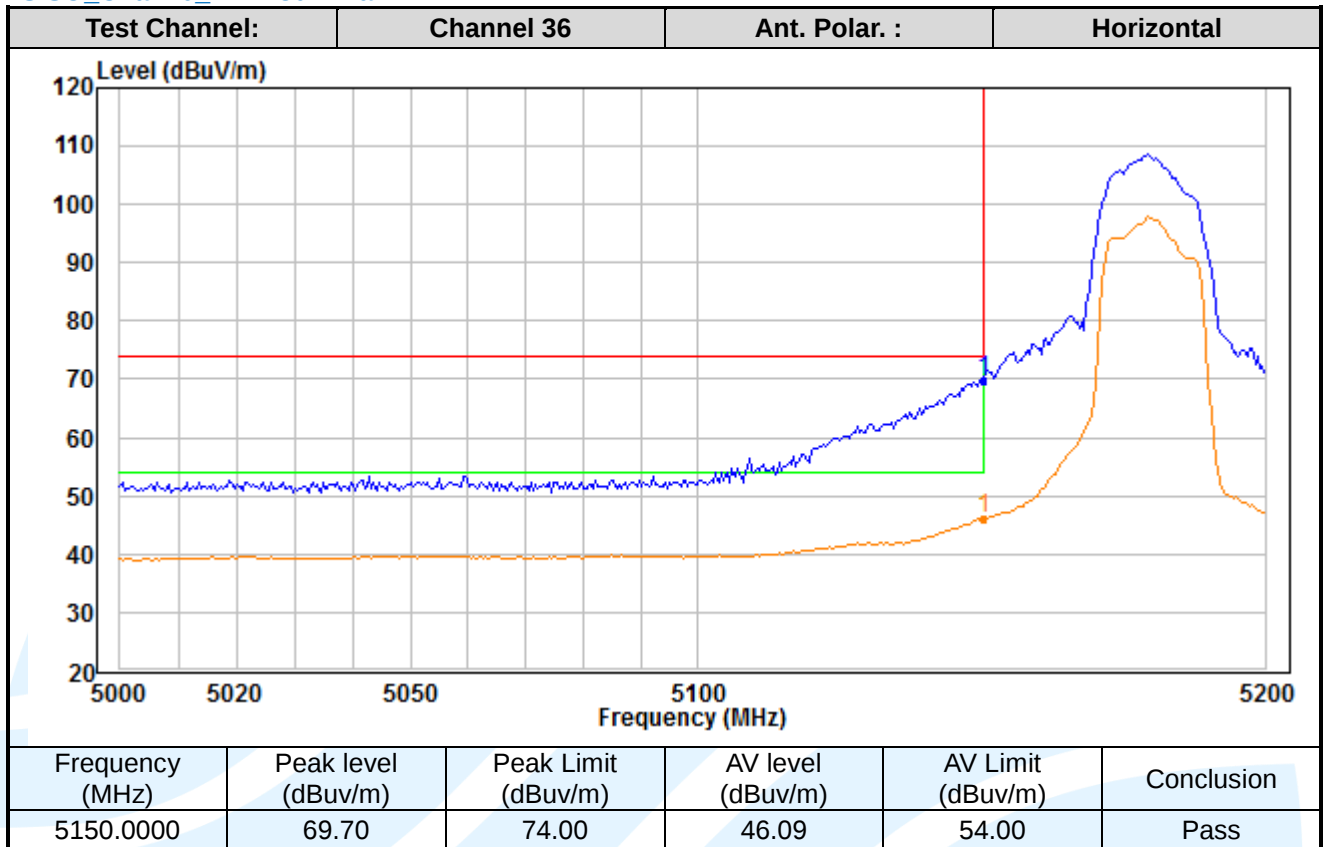
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Band Edge Measurements (Radiated)

SISO_Chain 0_JEE 802.11a



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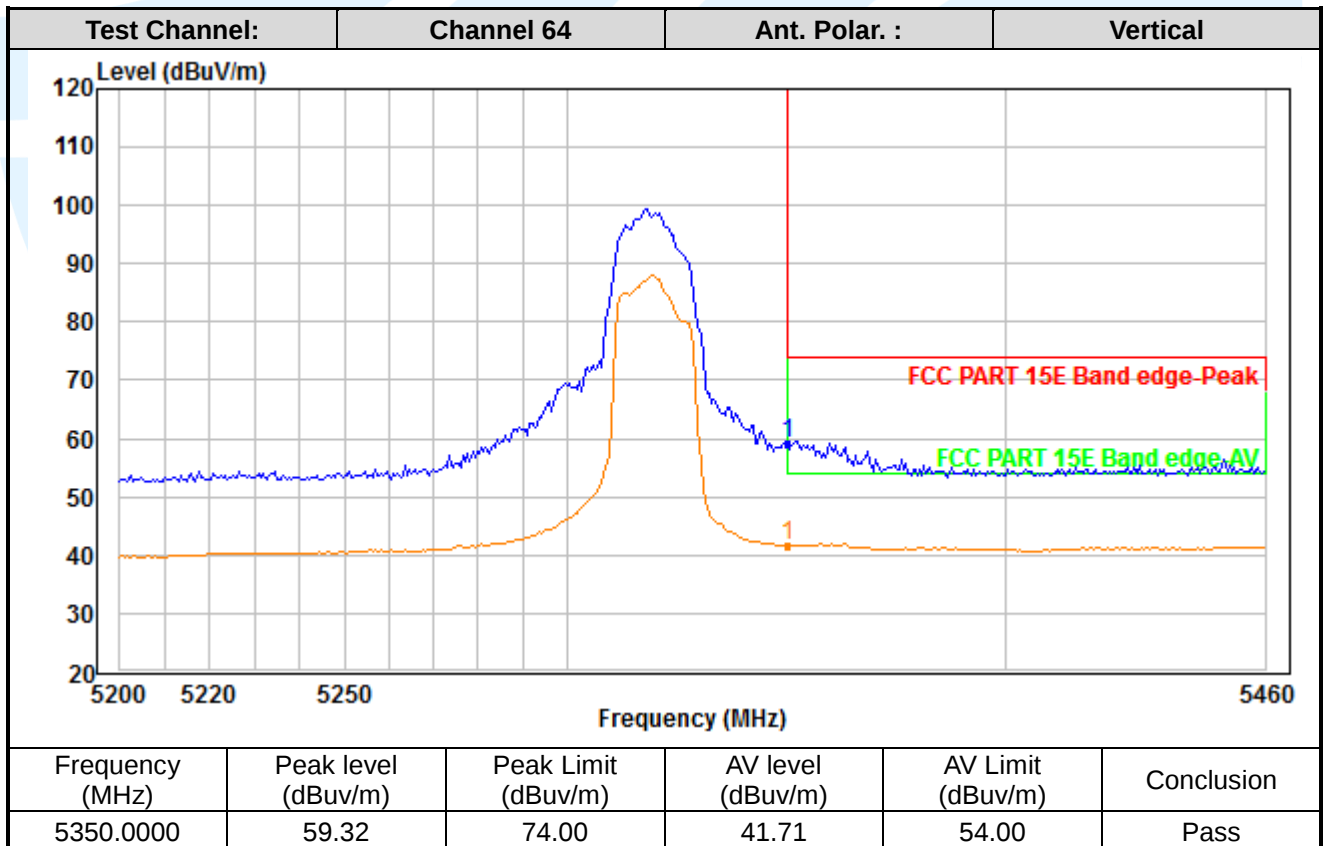
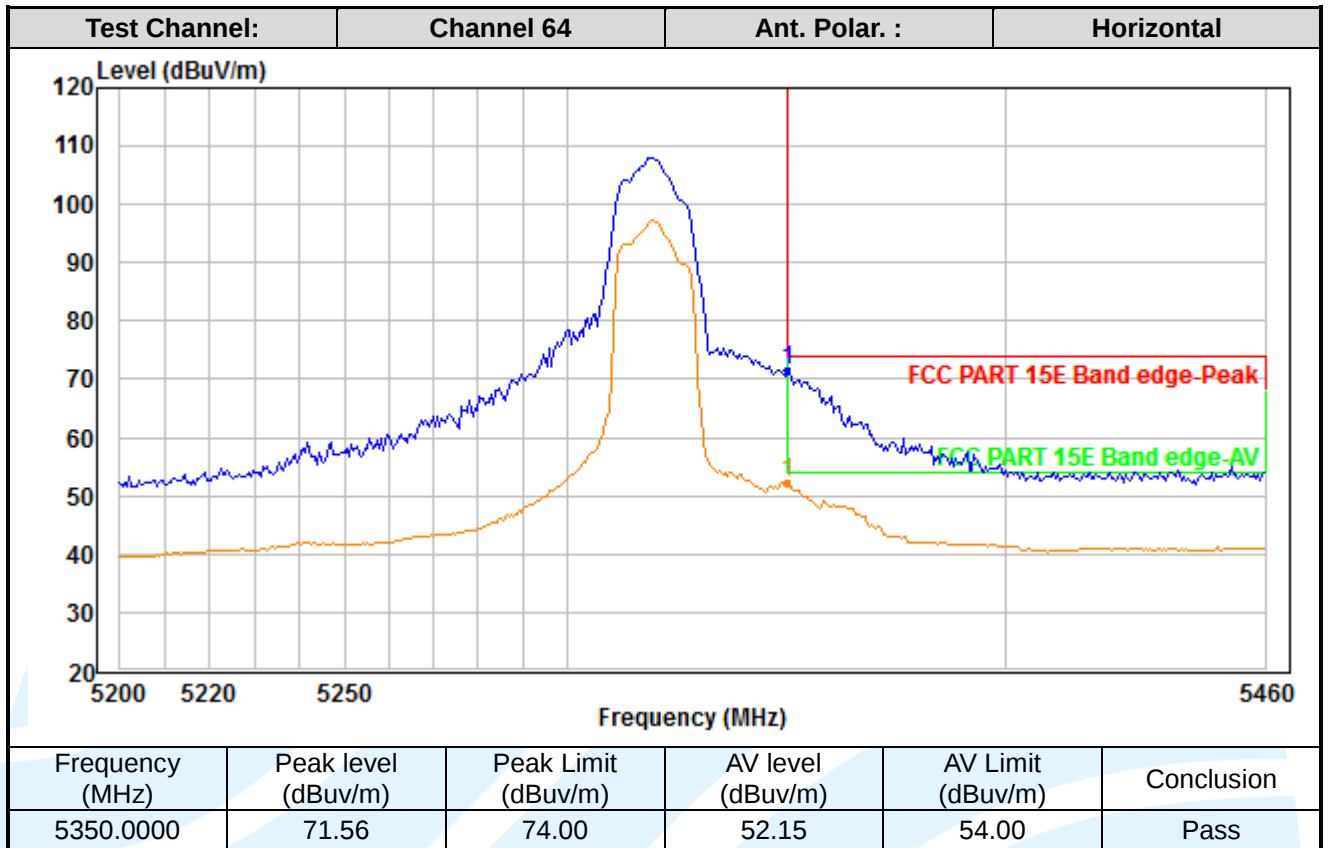
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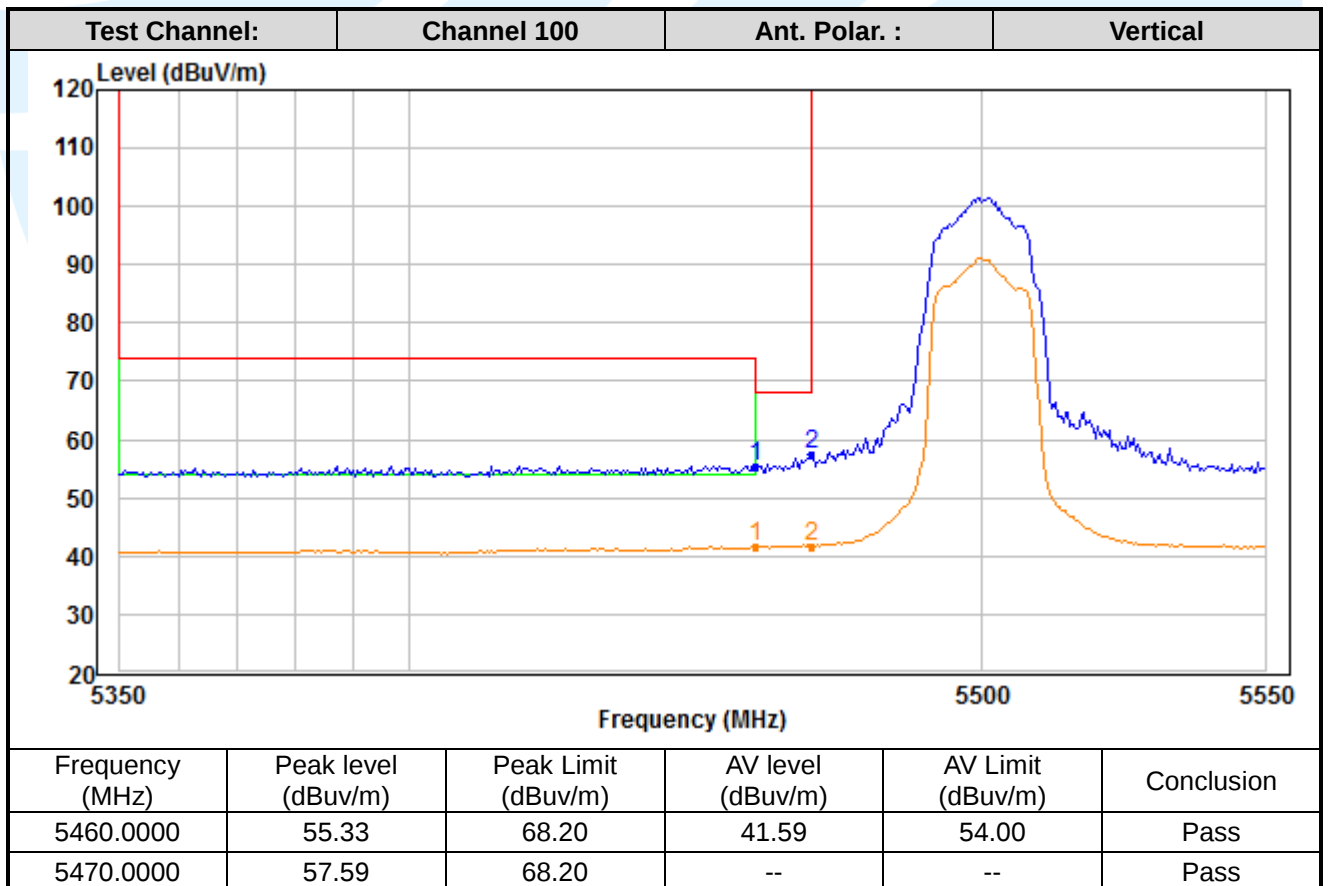
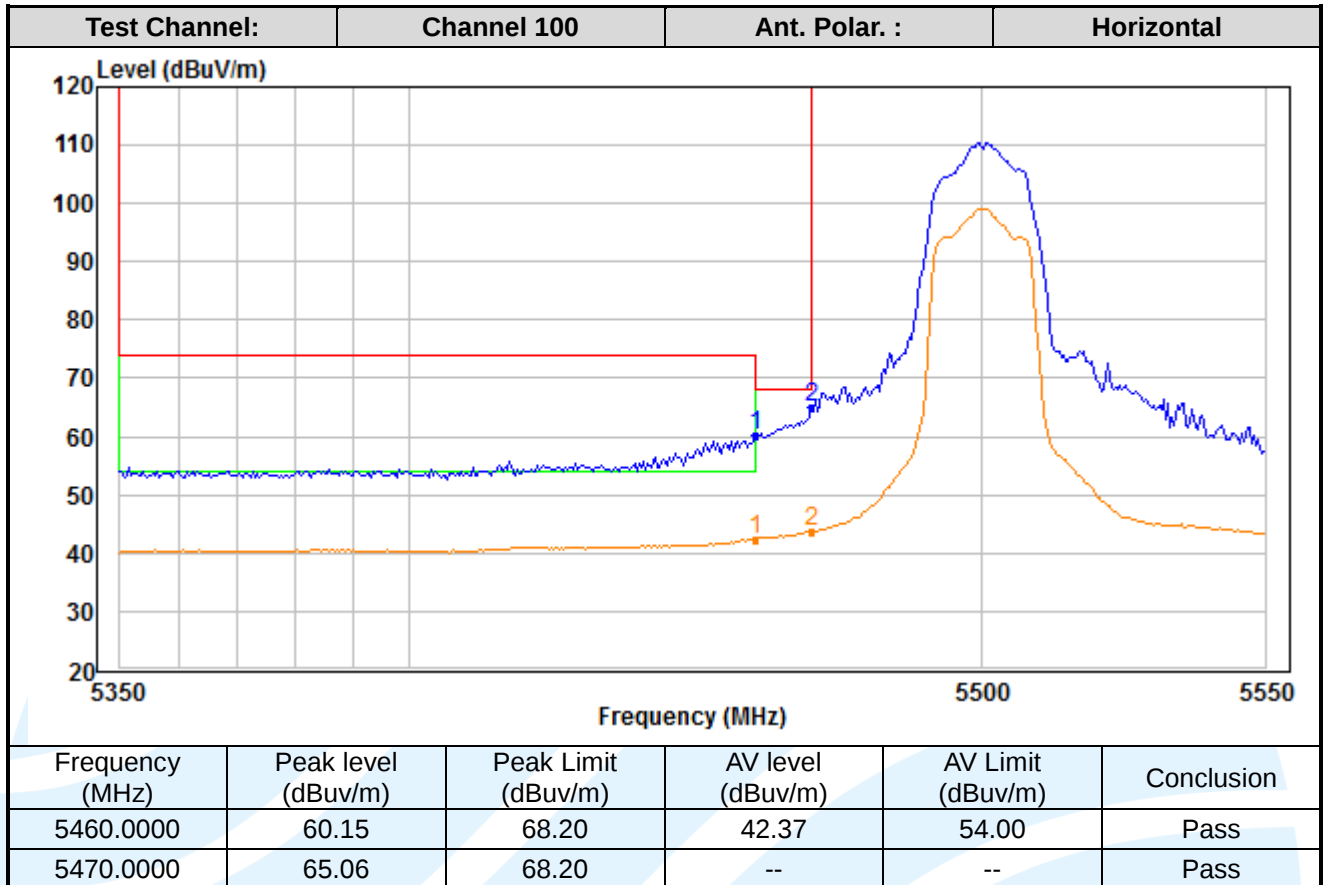
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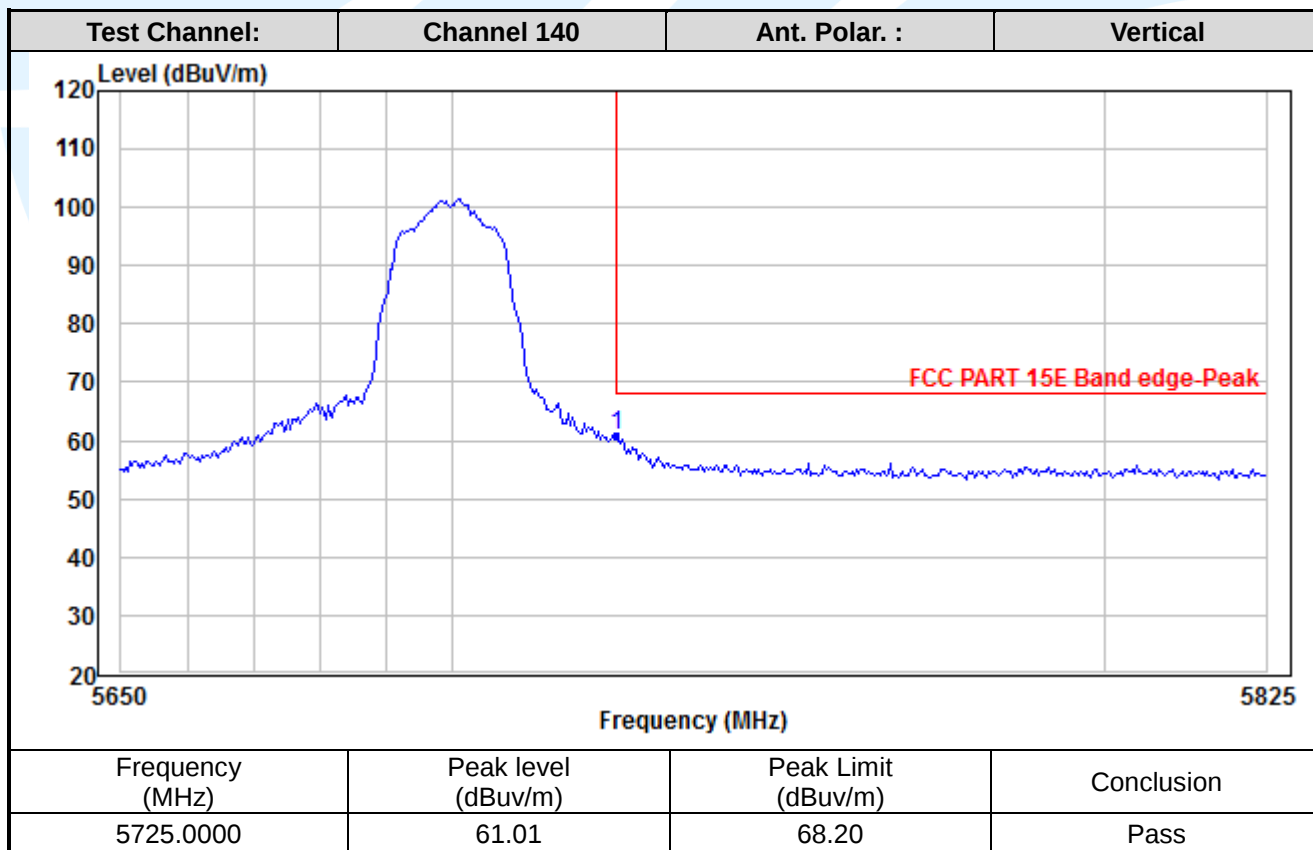
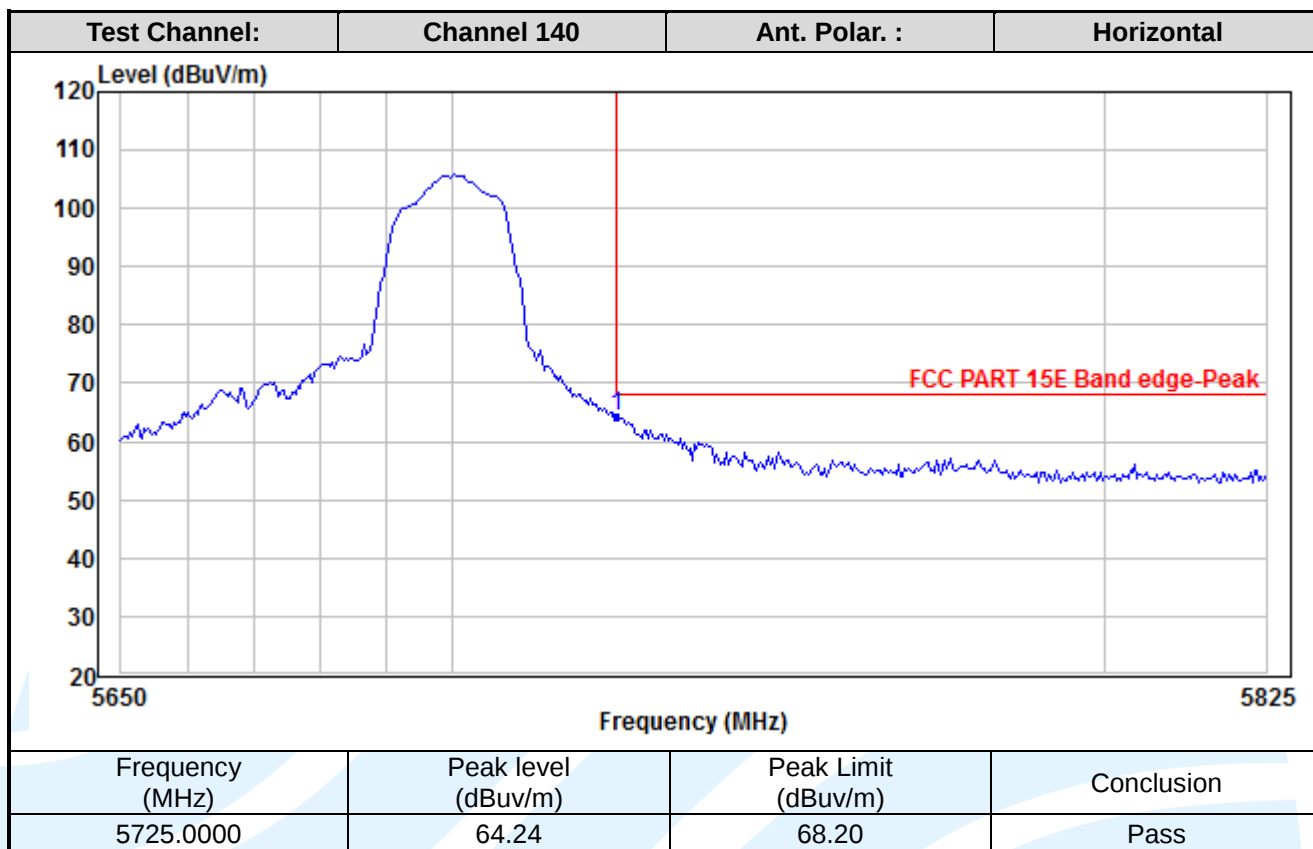
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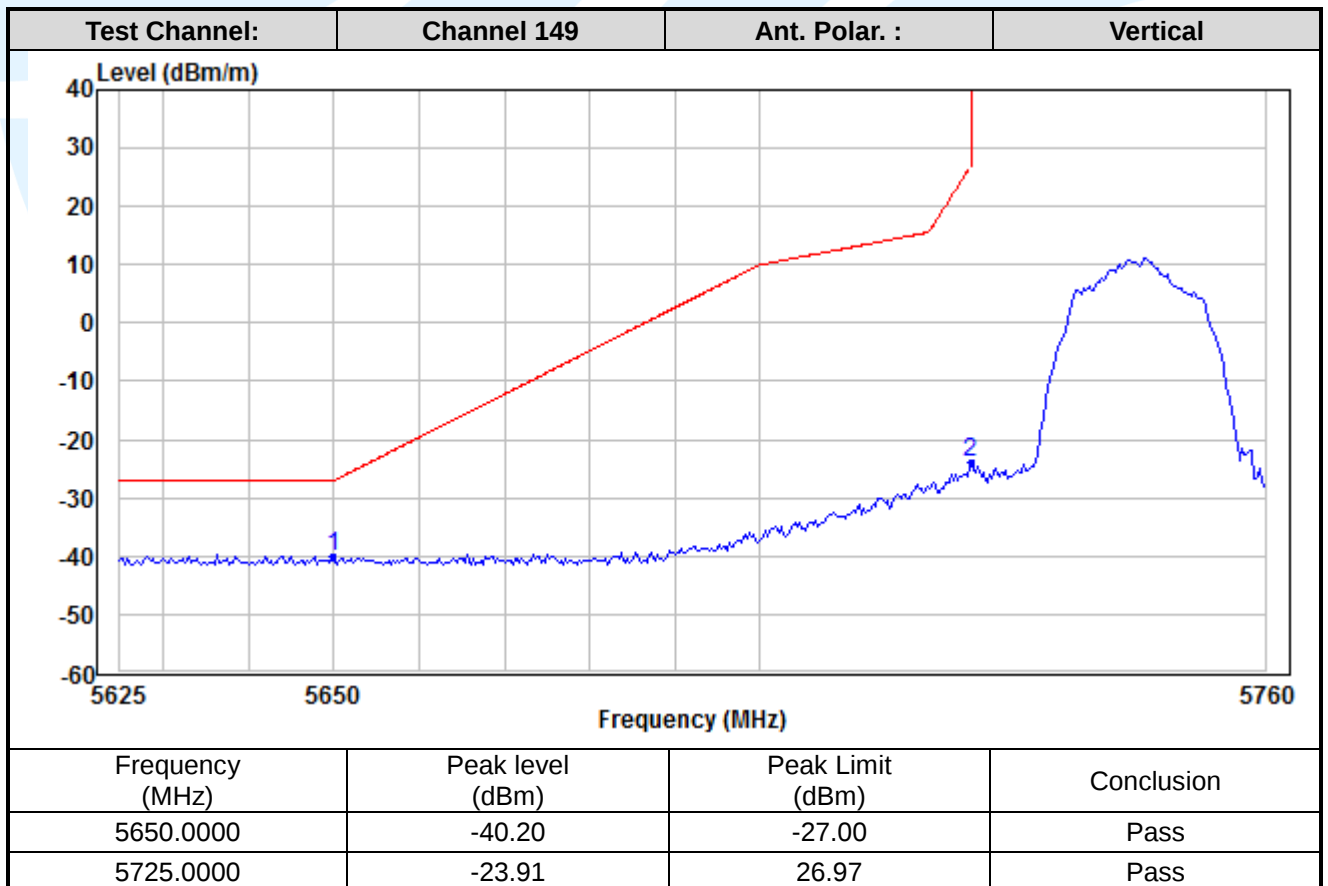
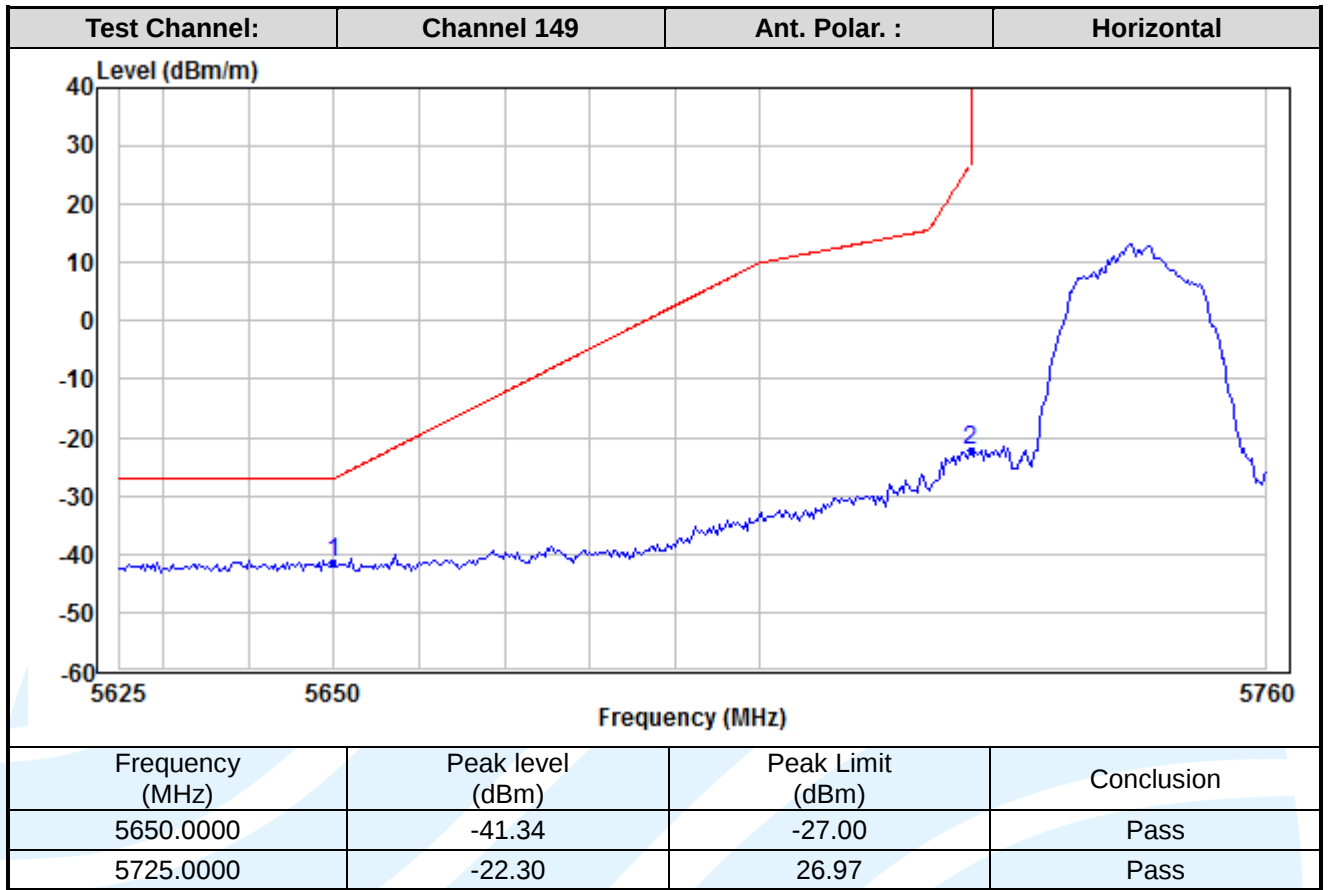
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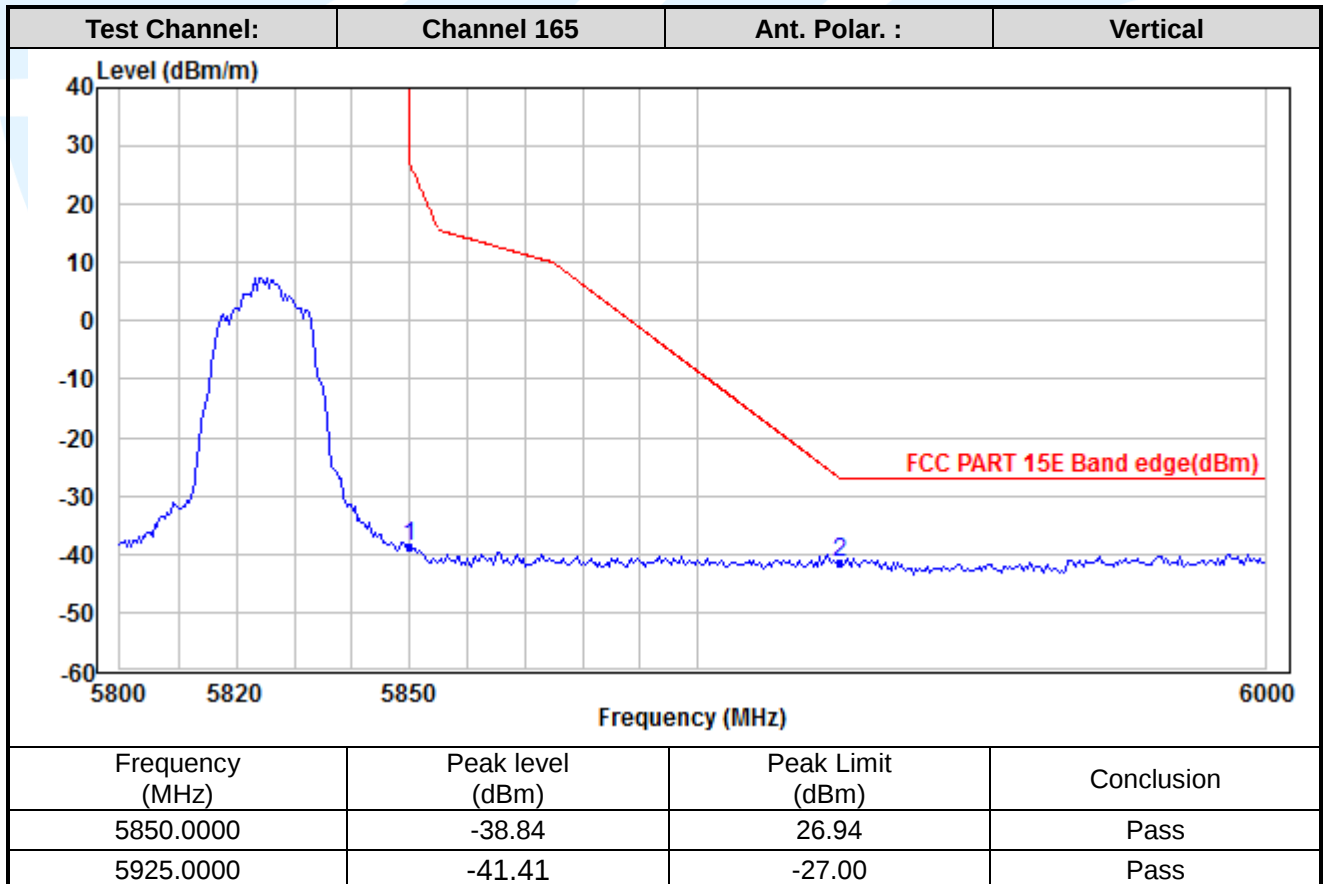
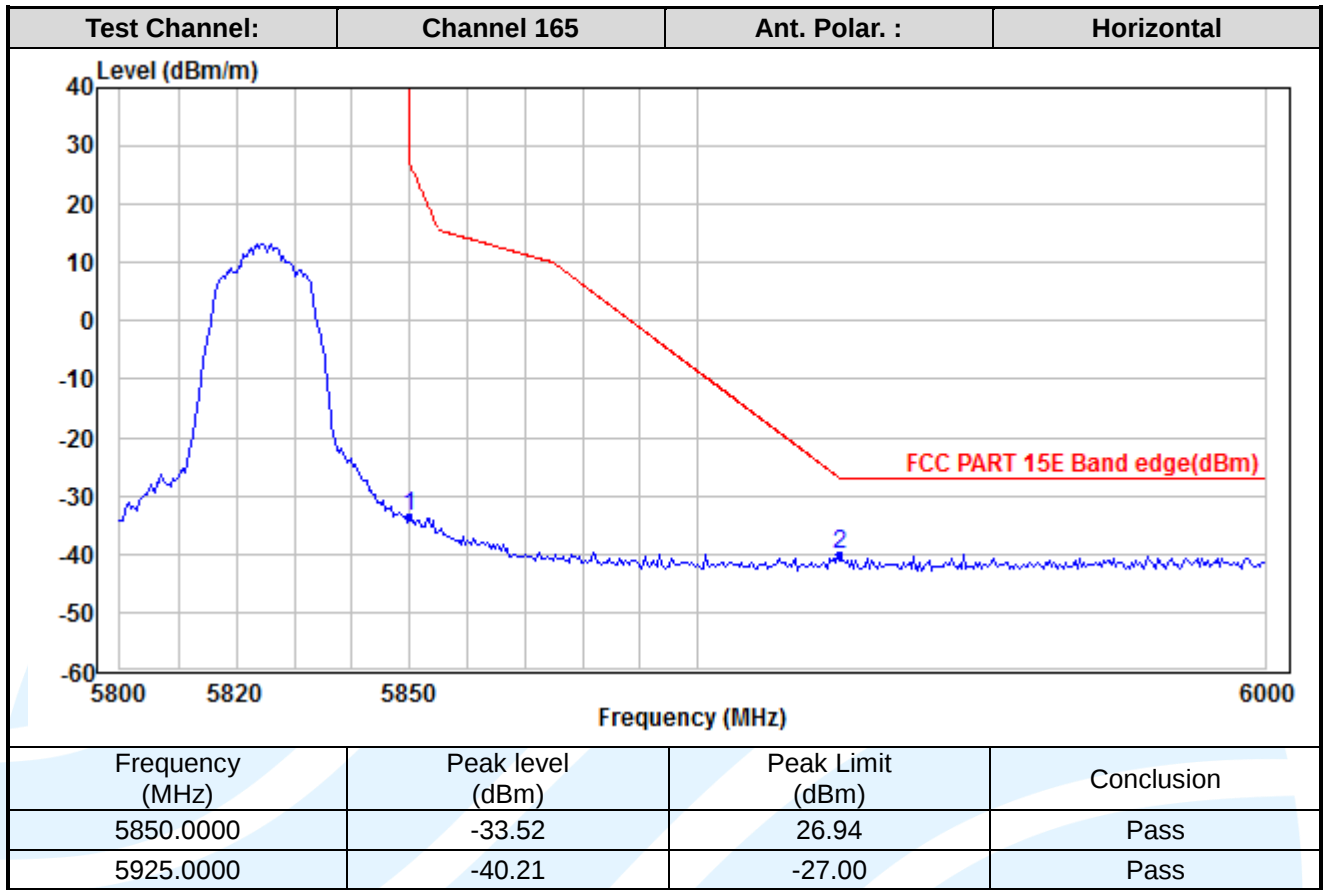
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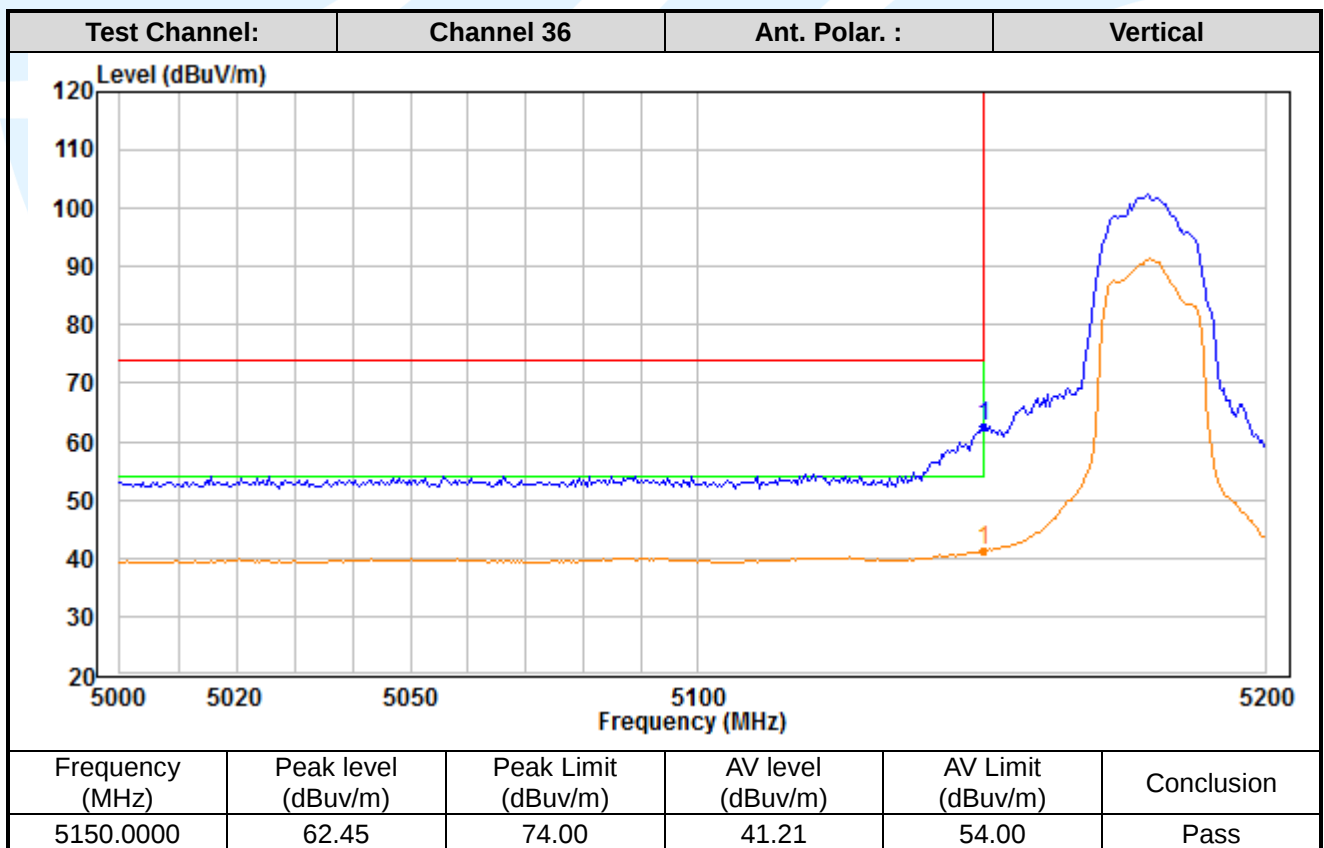
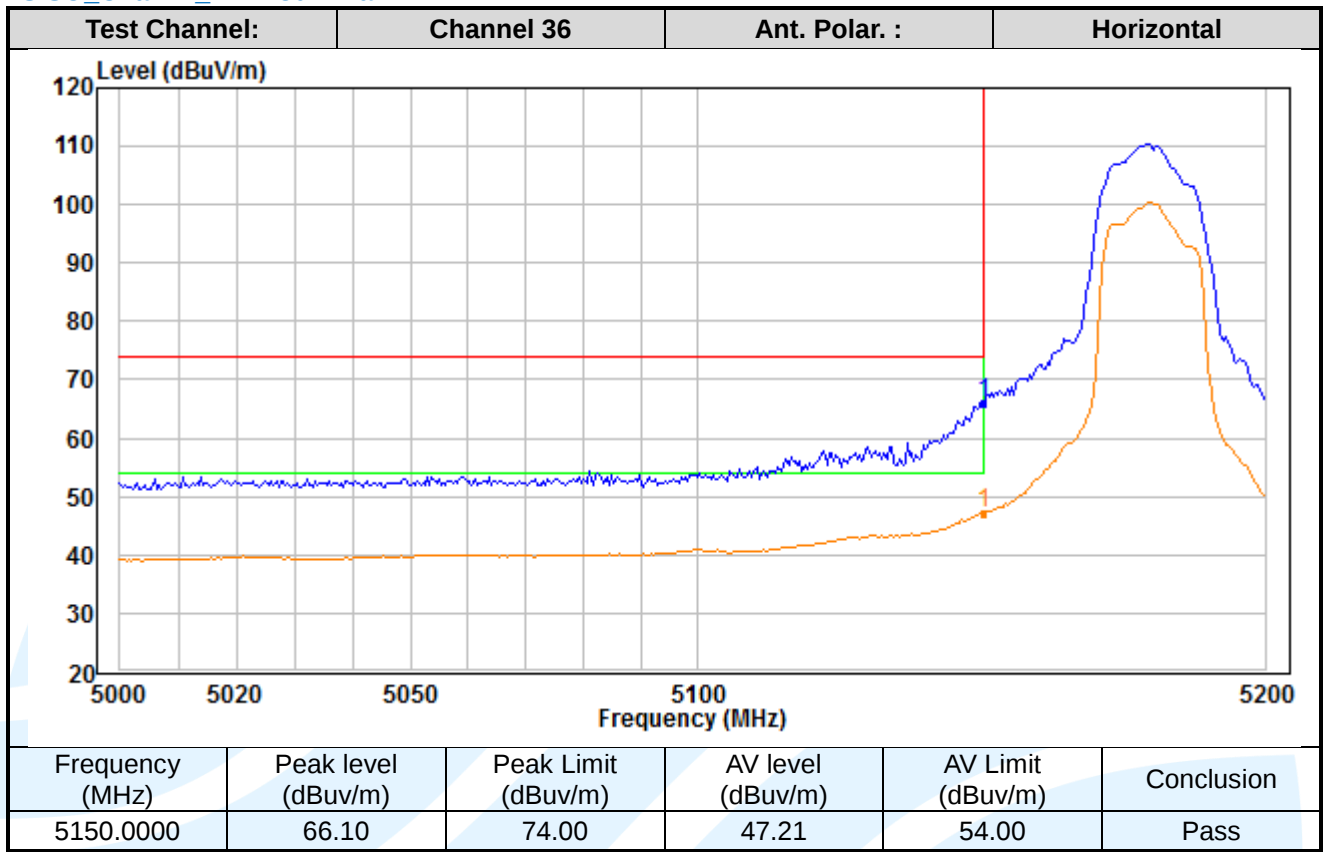
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SISO_Chain 1_ IEEE 802.11a



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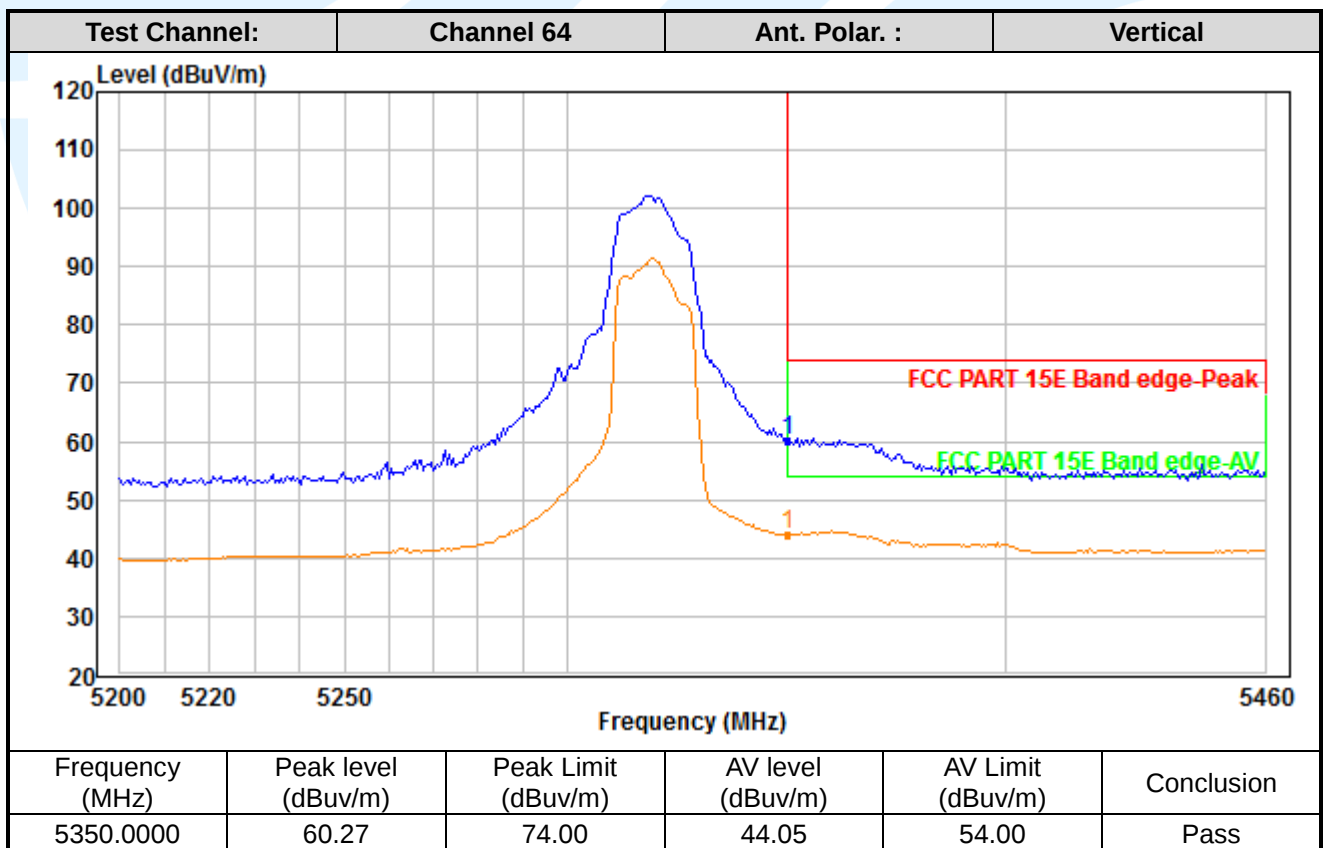
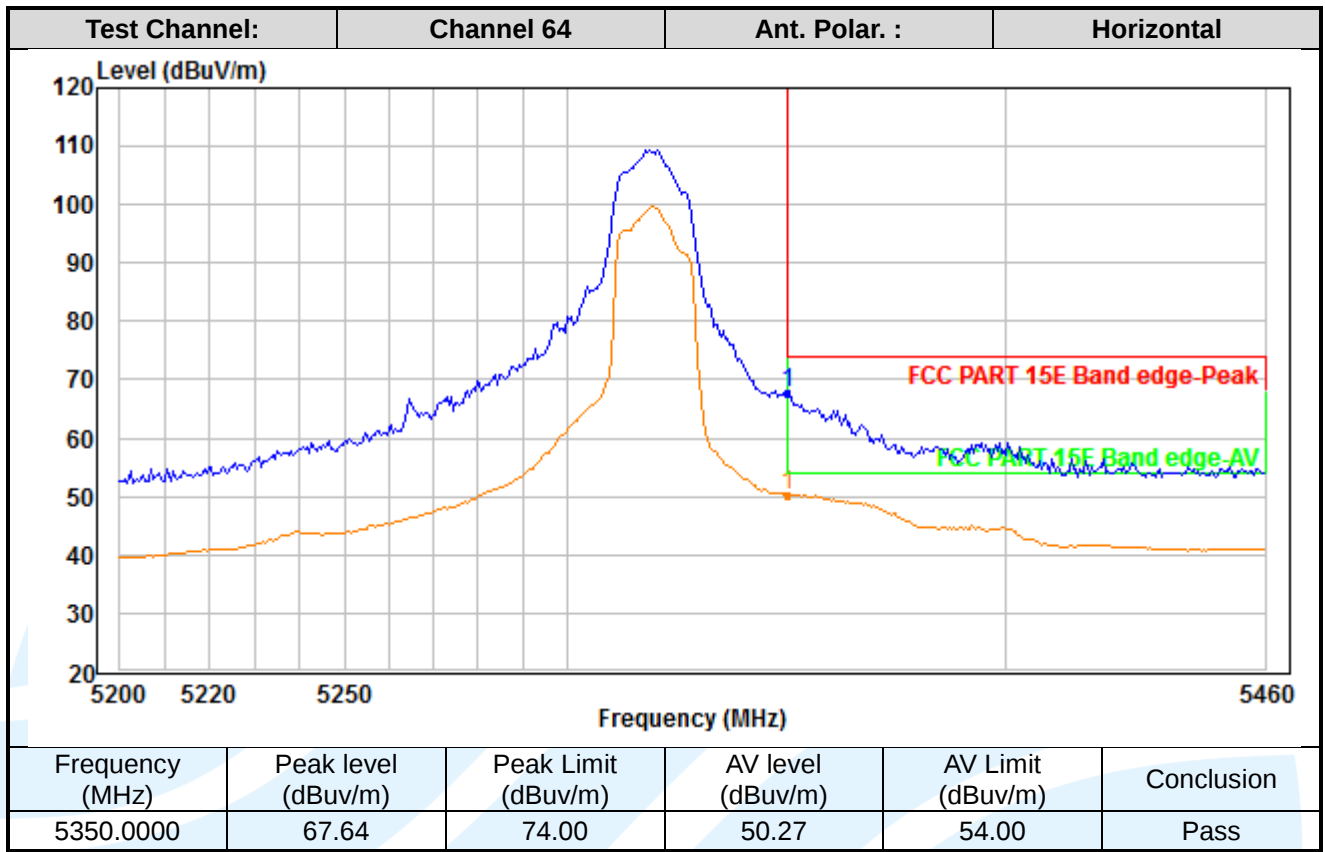
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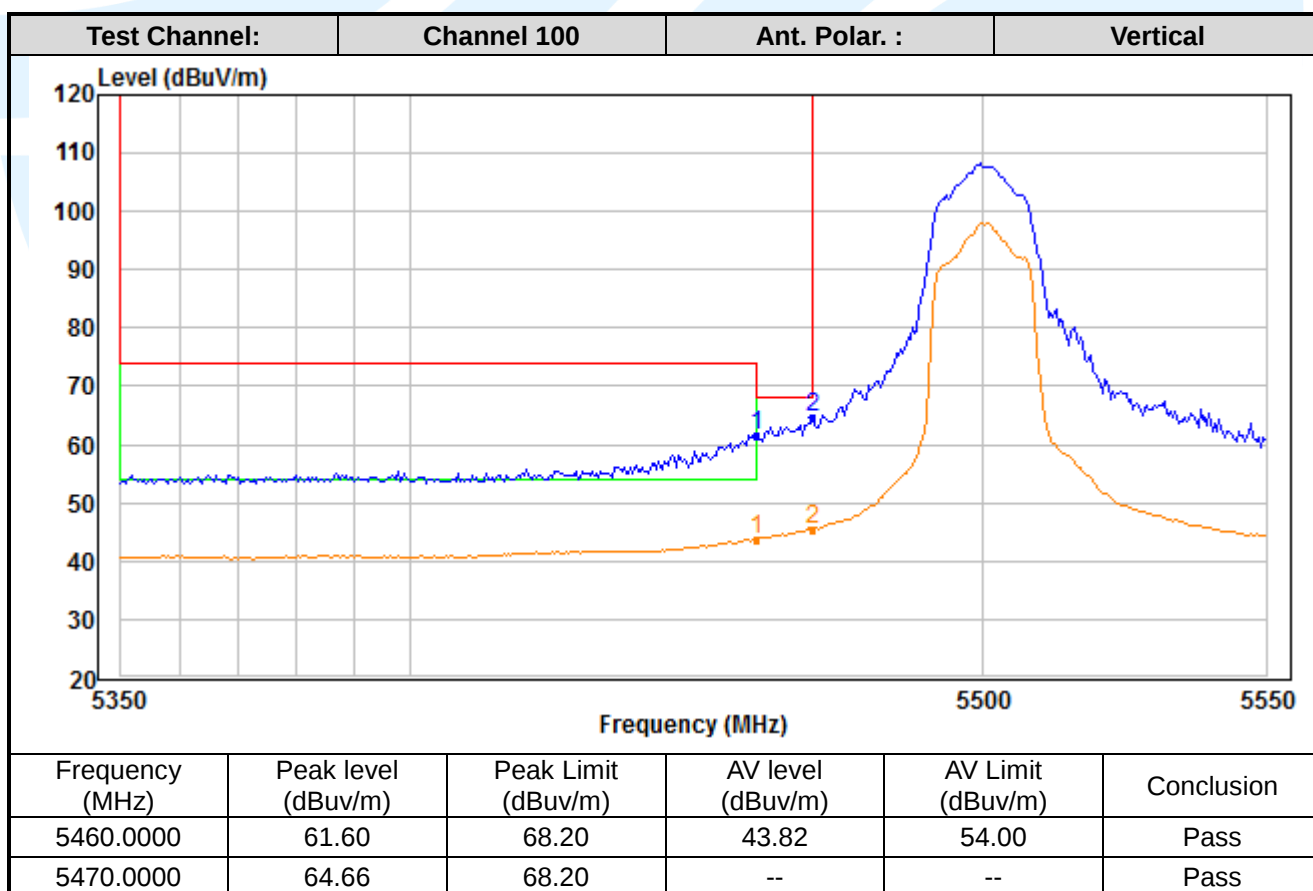
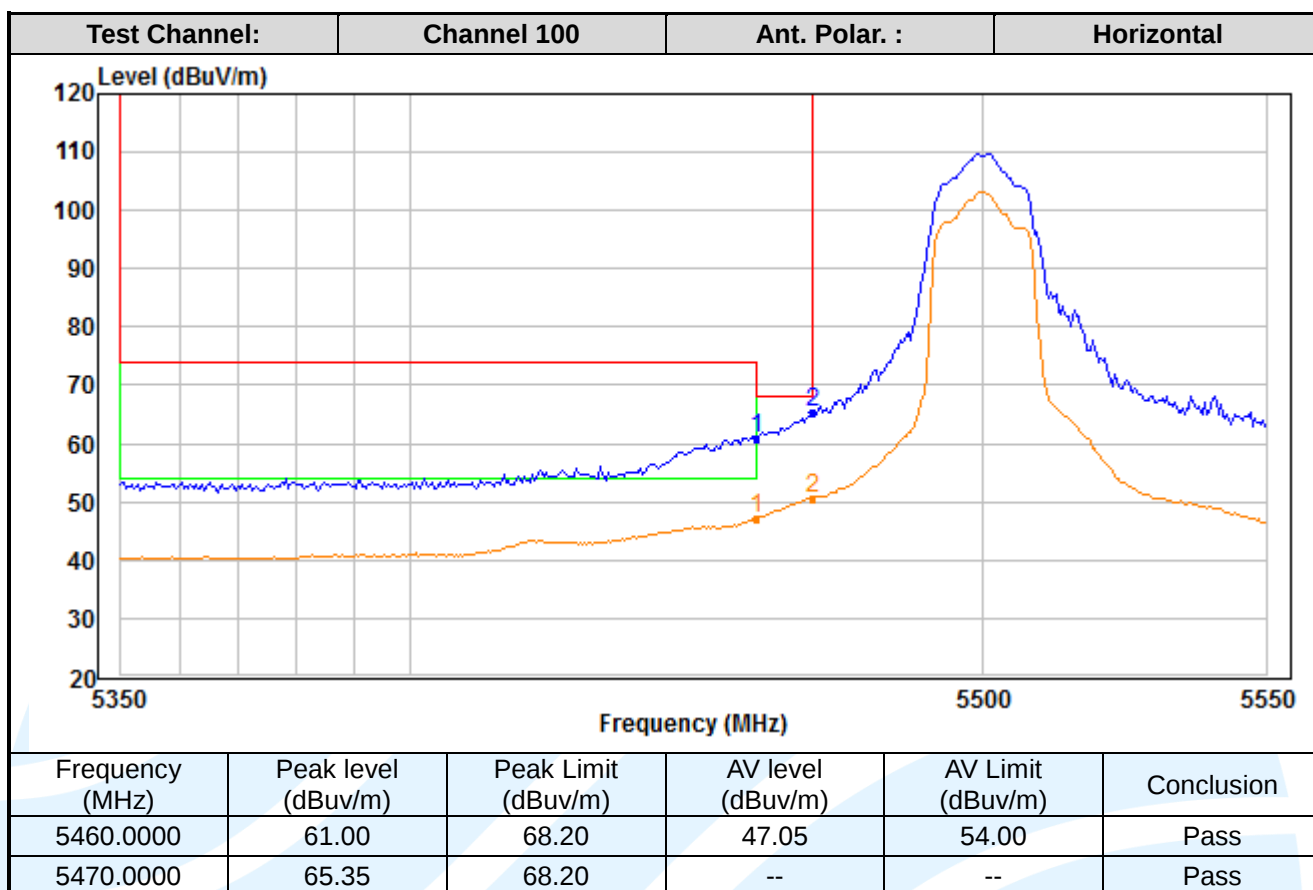
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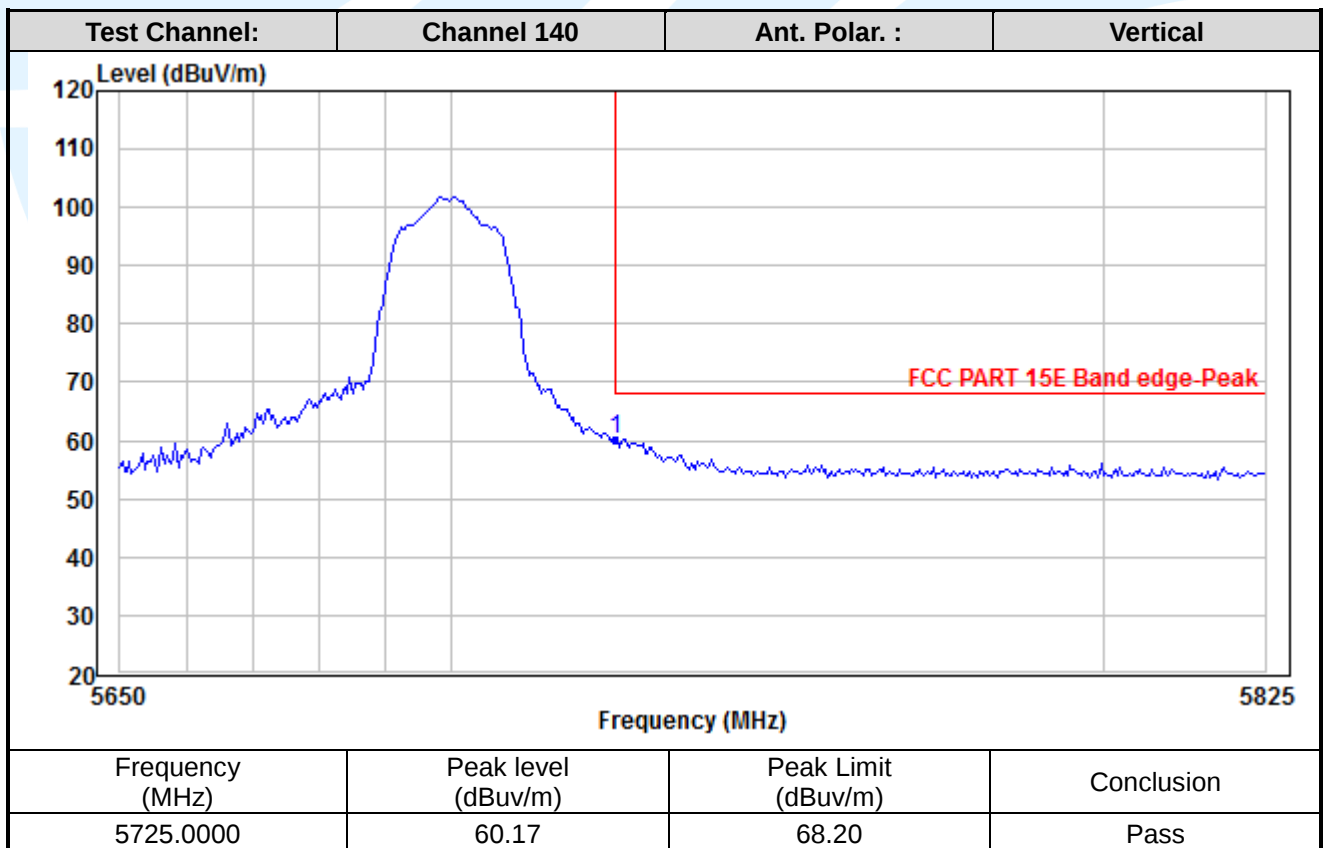
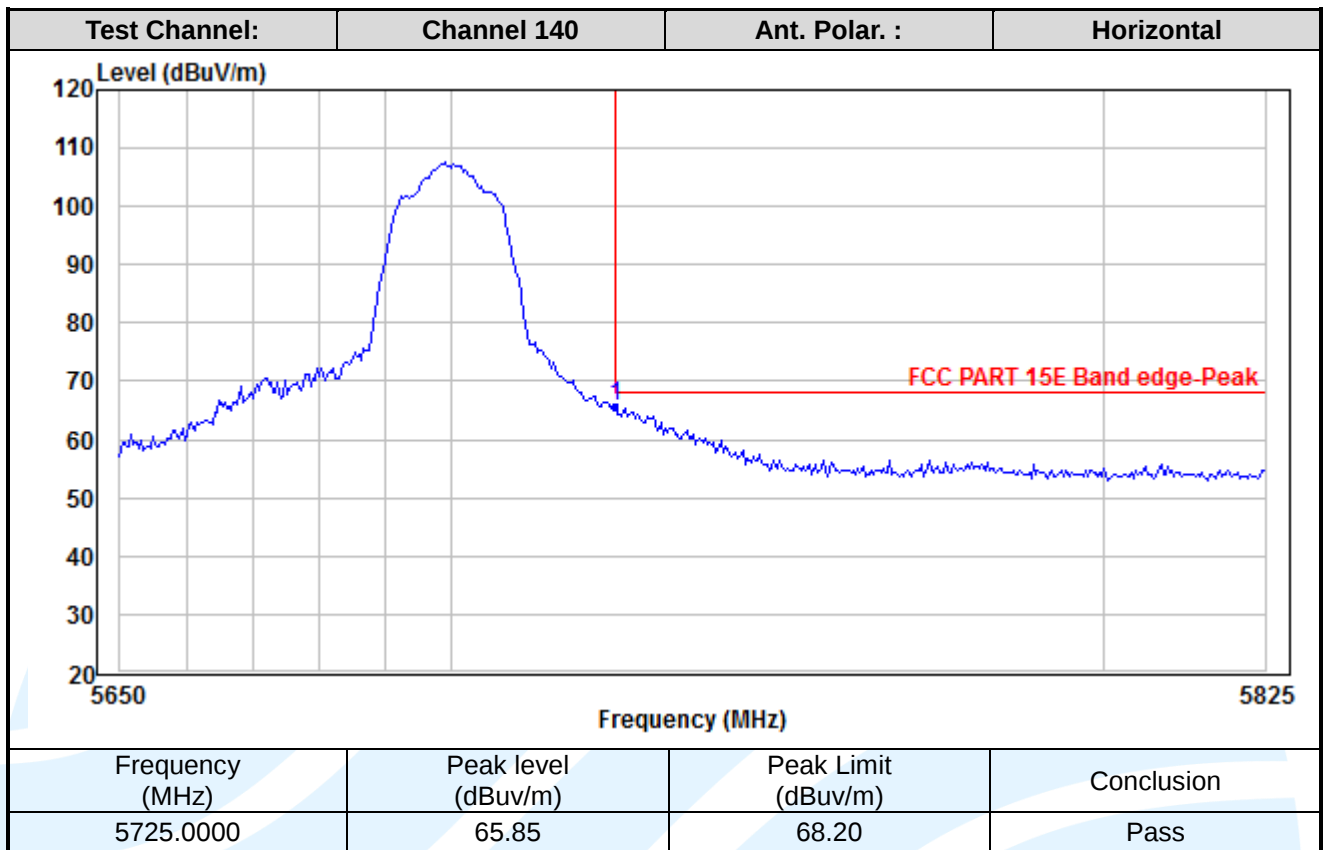
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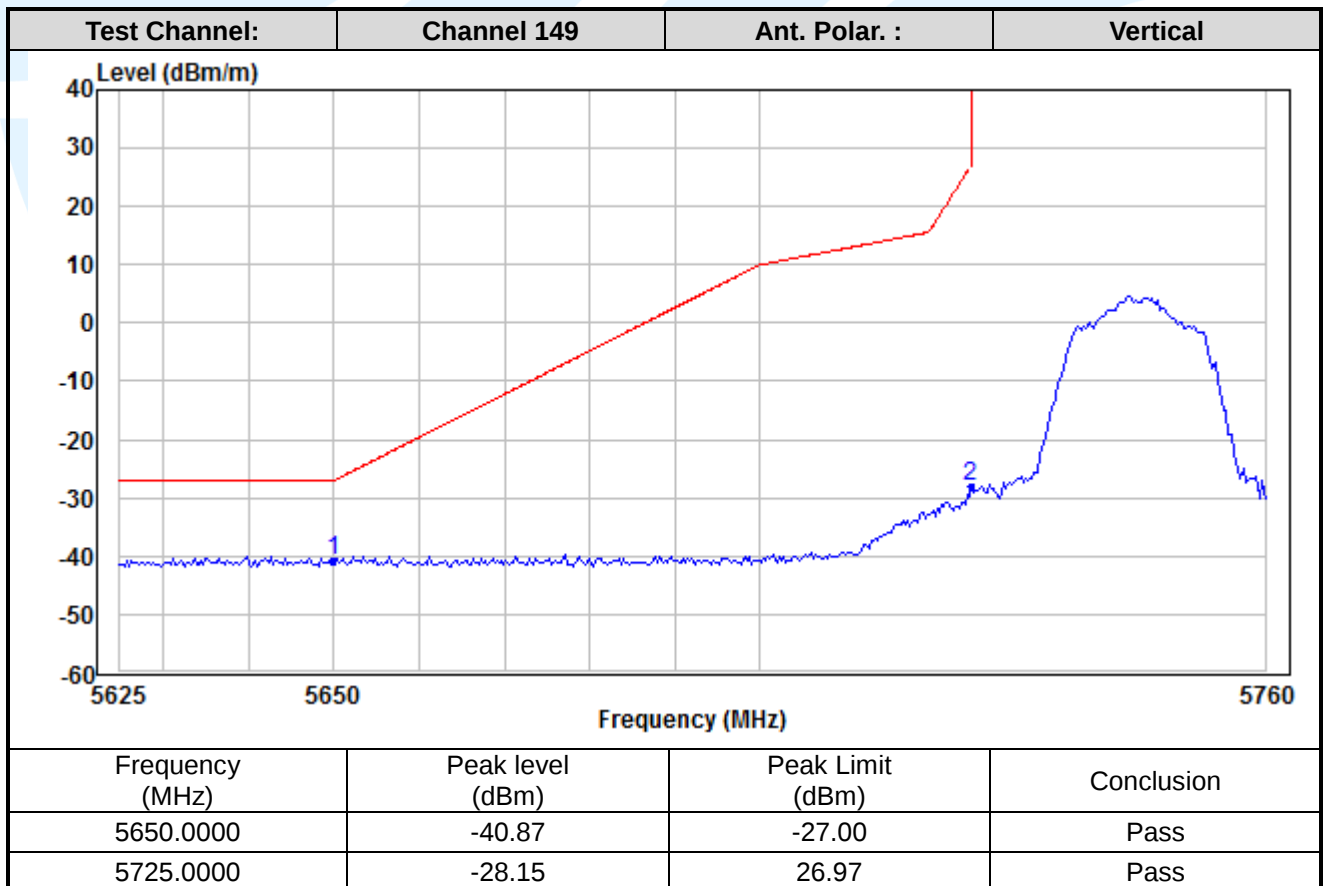
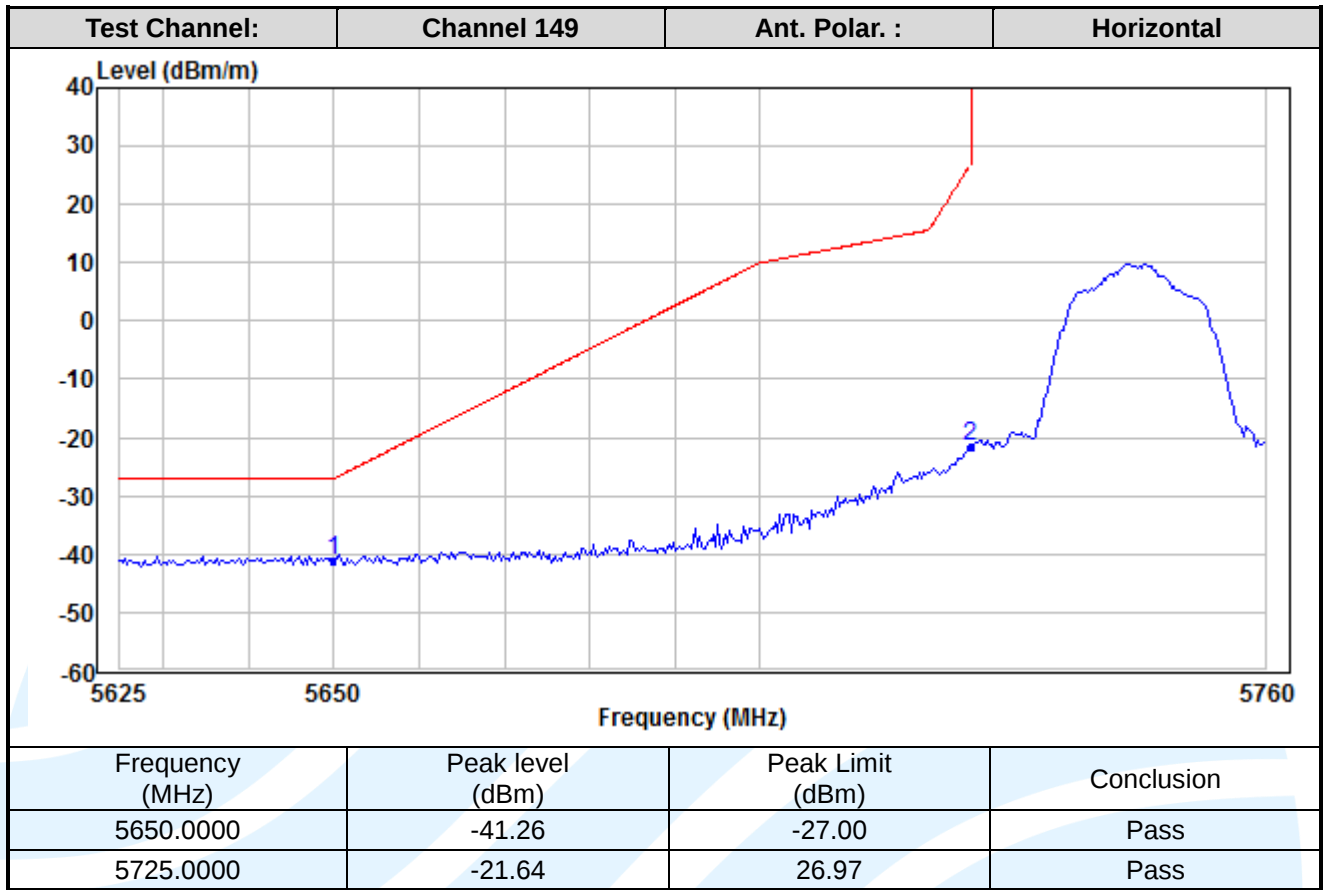
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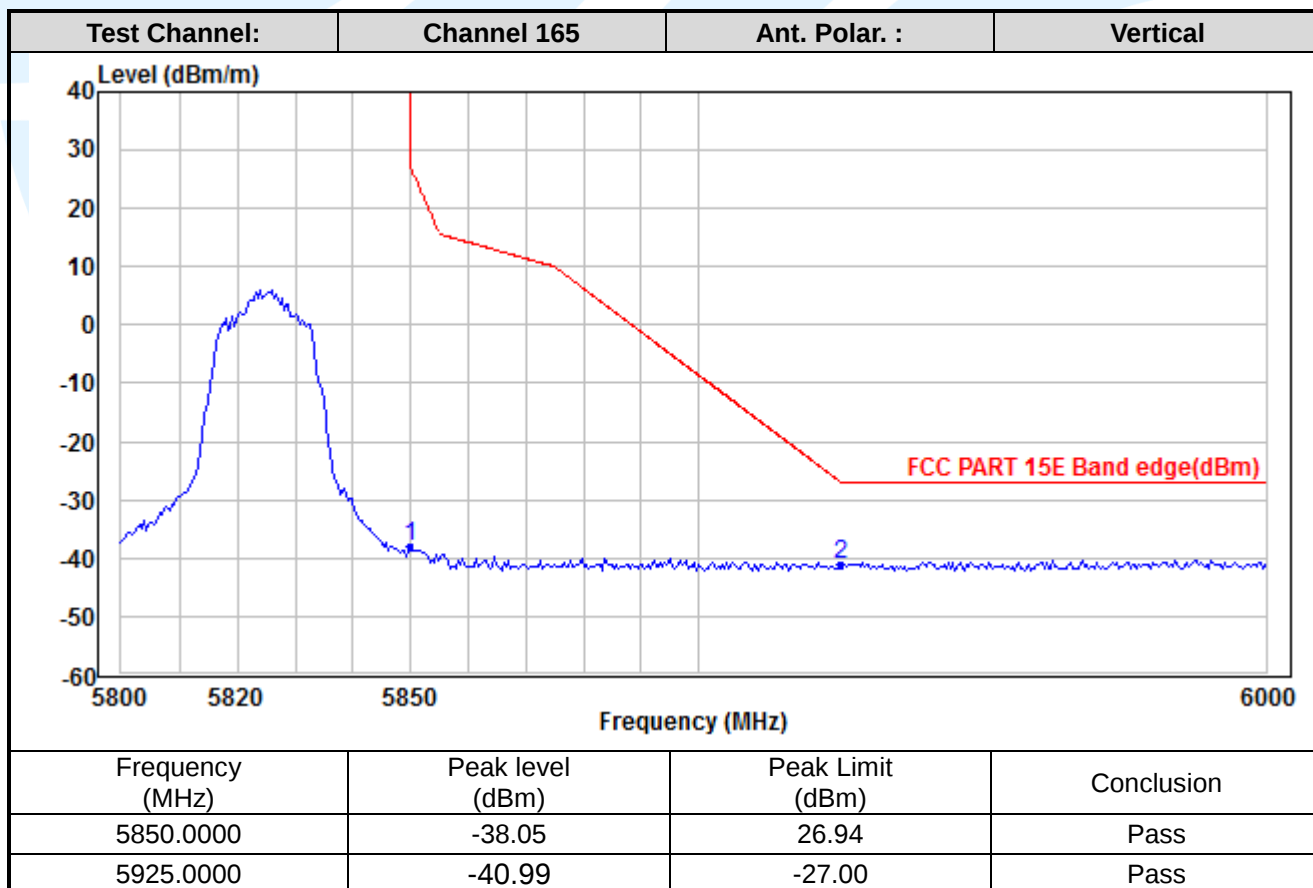
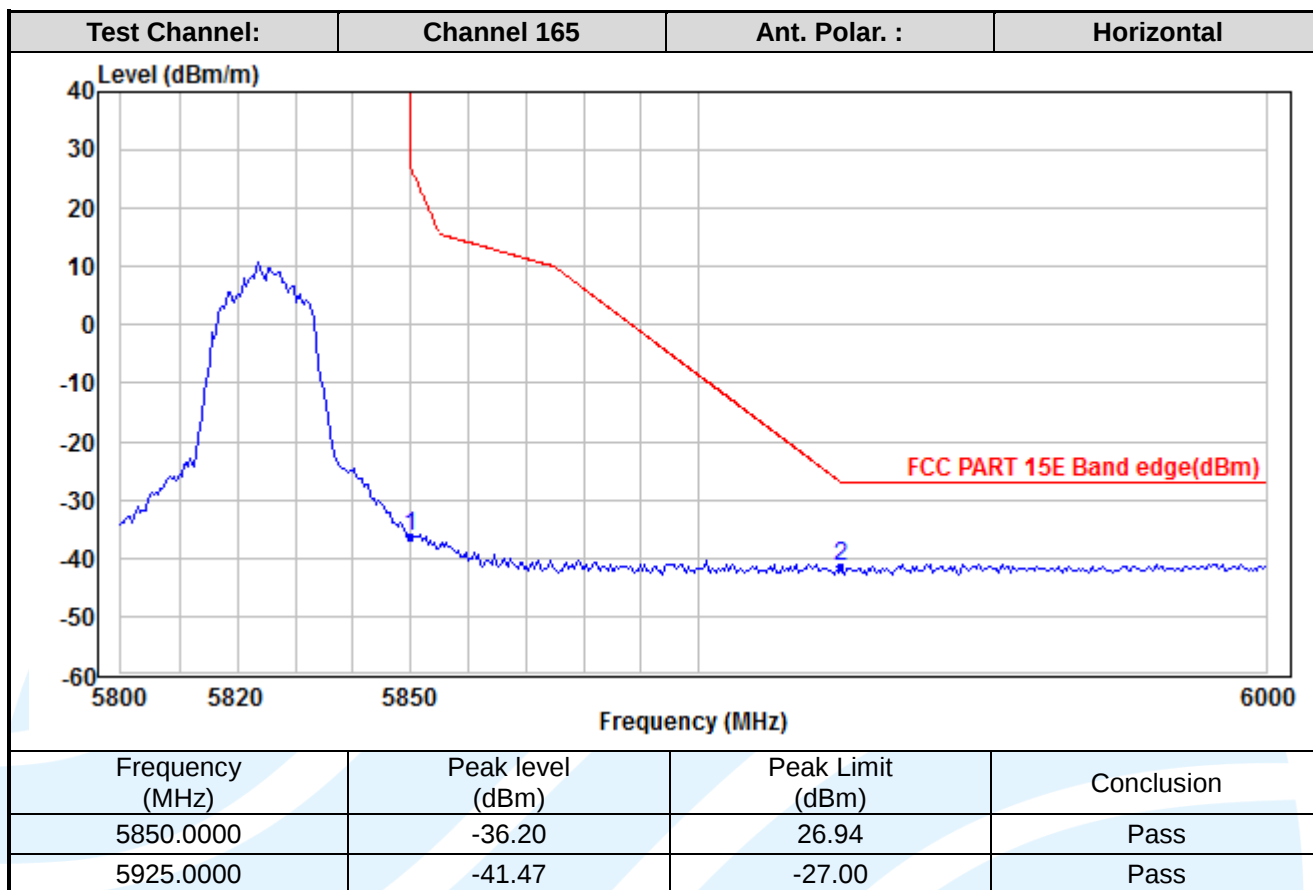
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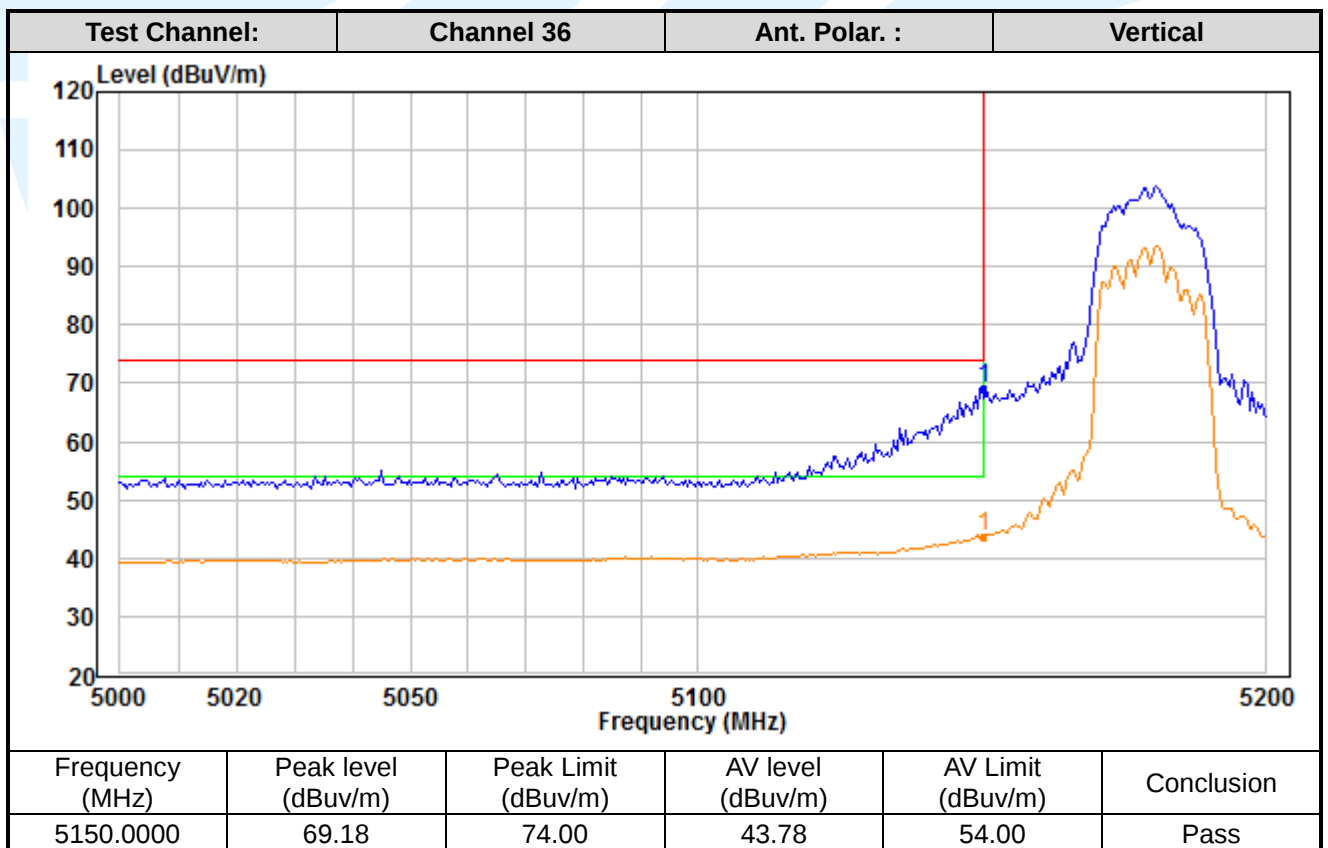
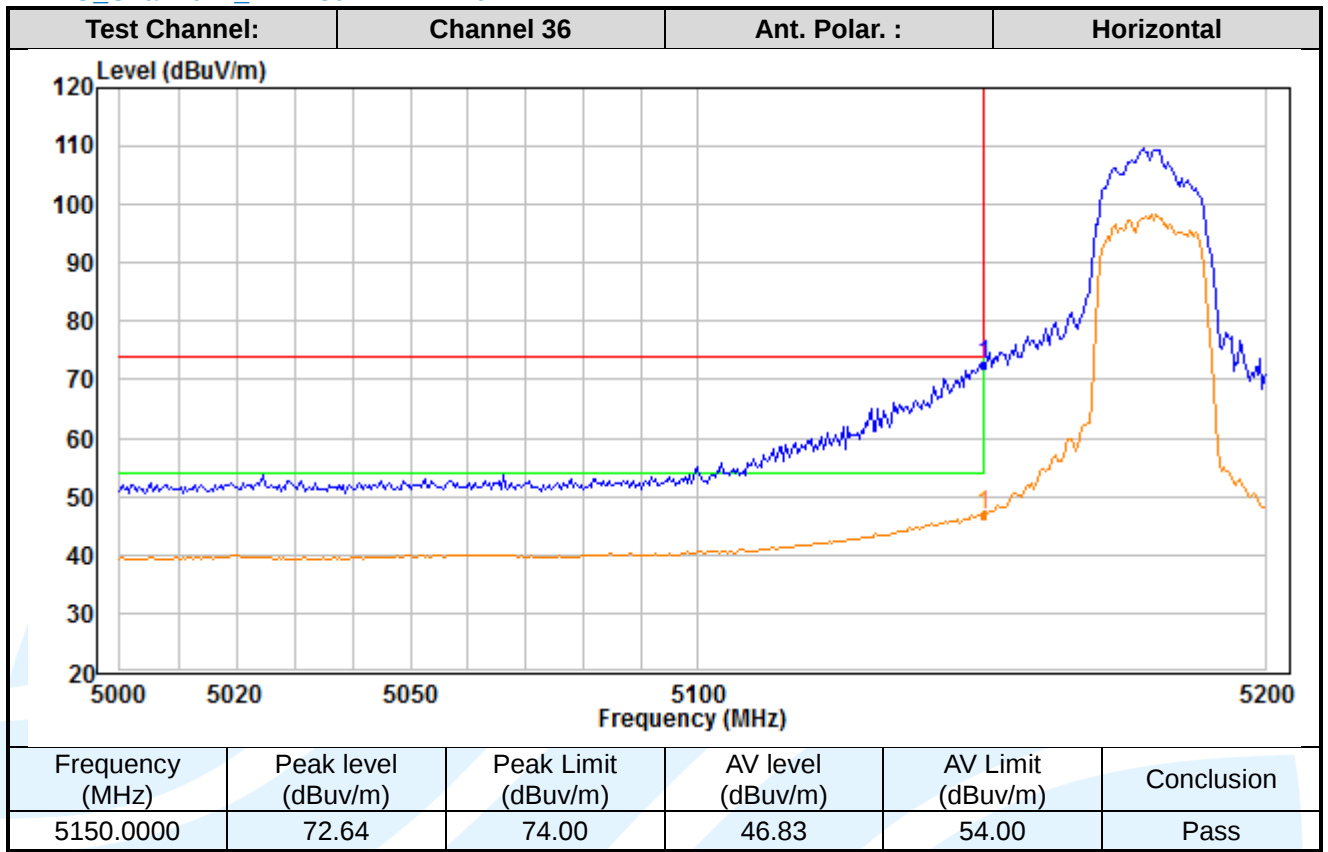
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MIMO Chain 0+1_ IEEE 802.11n-HT20



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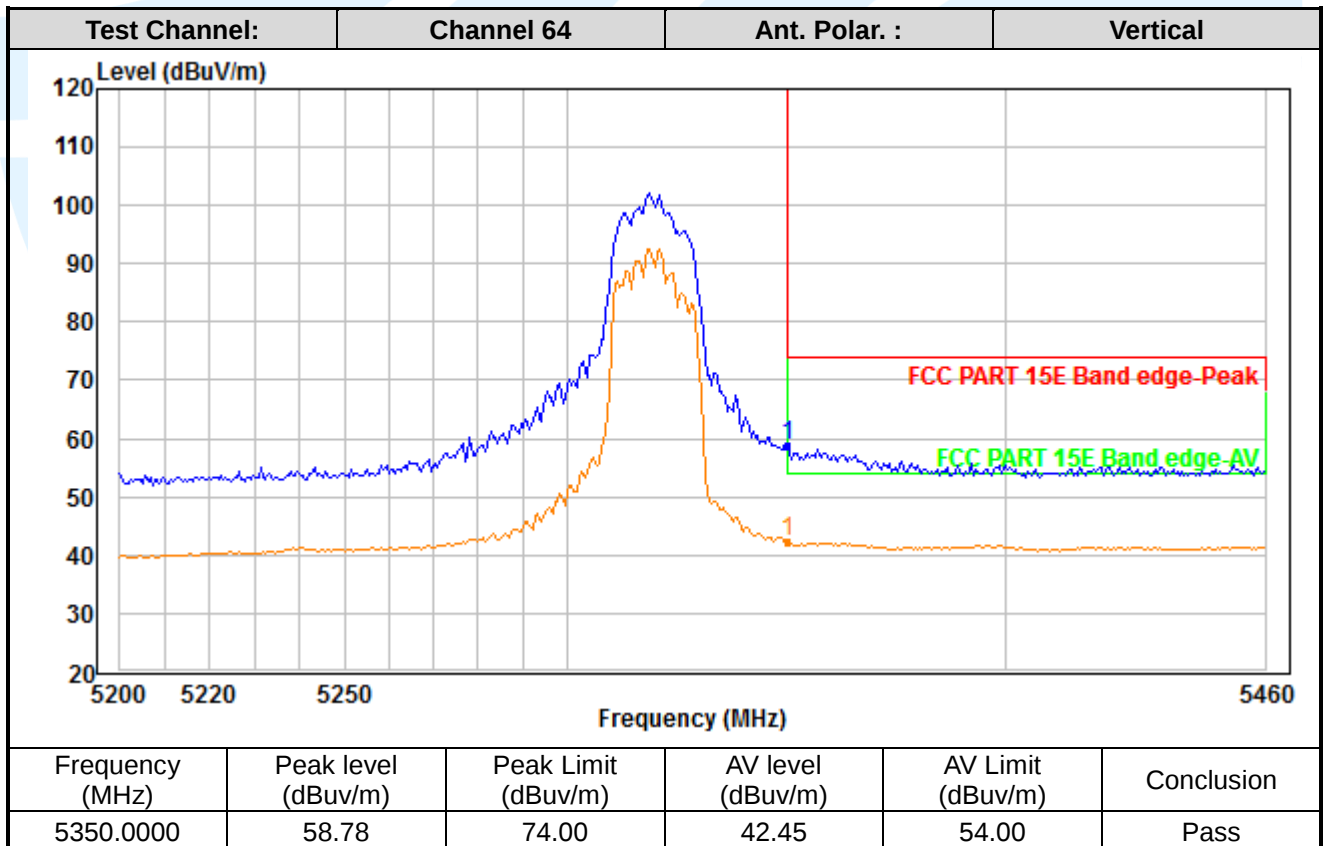
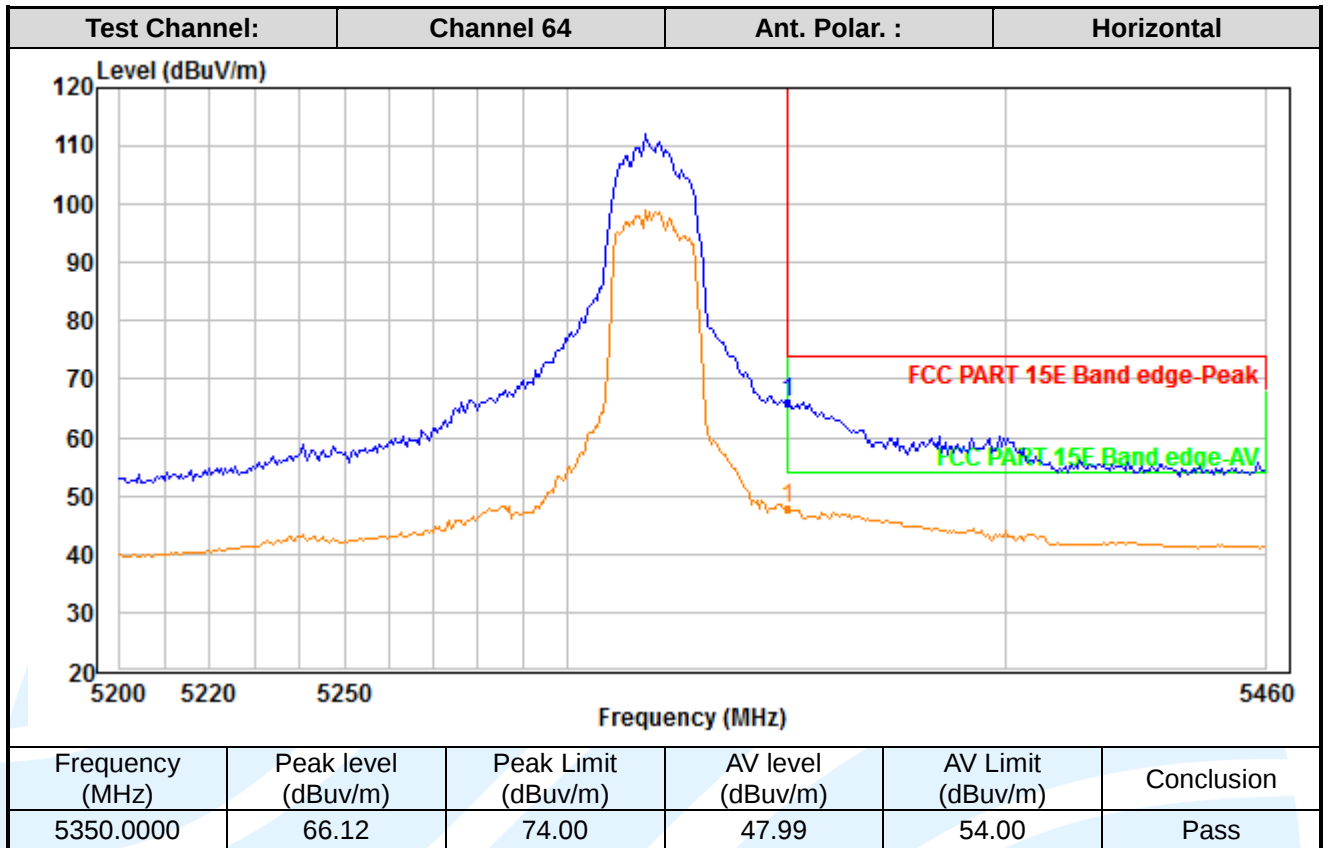
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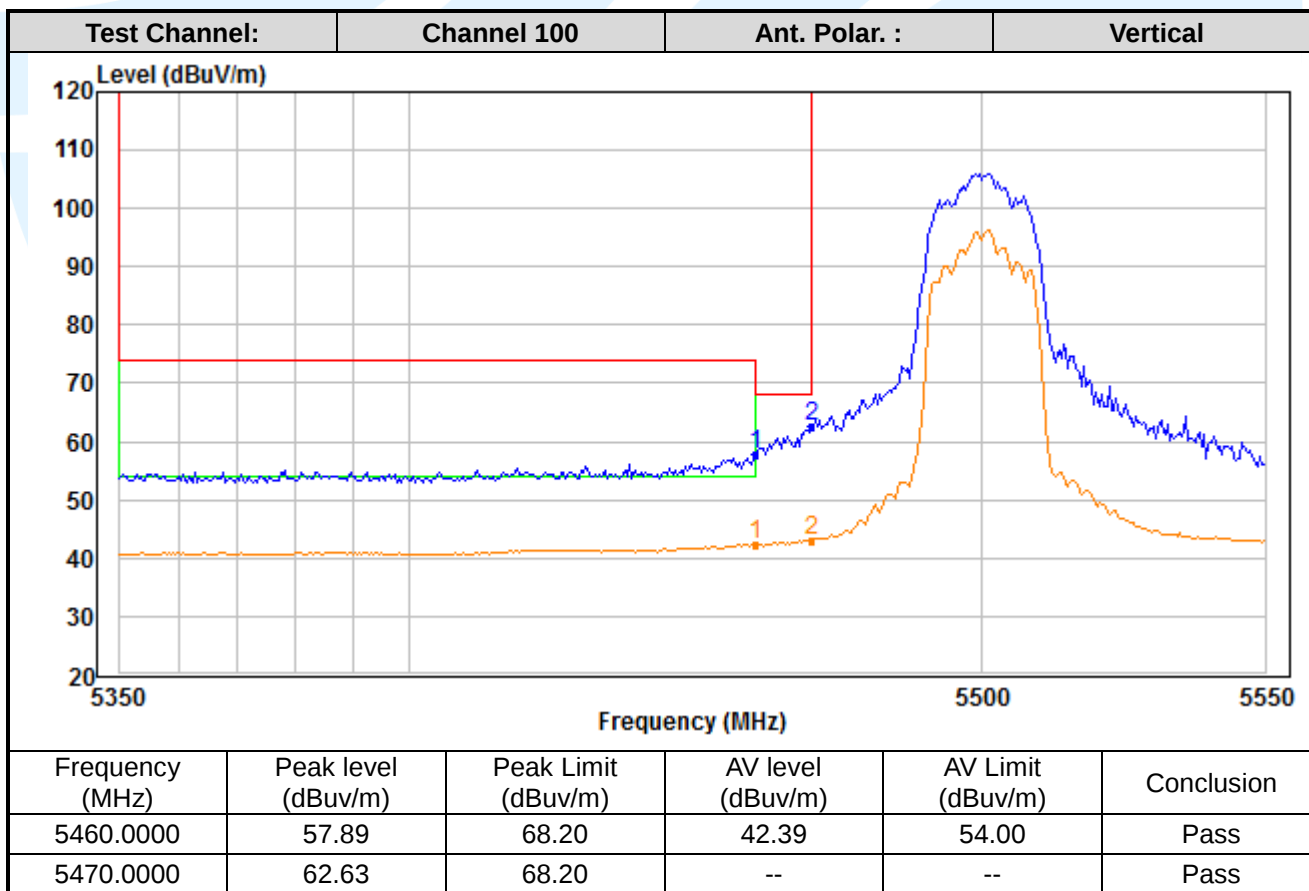
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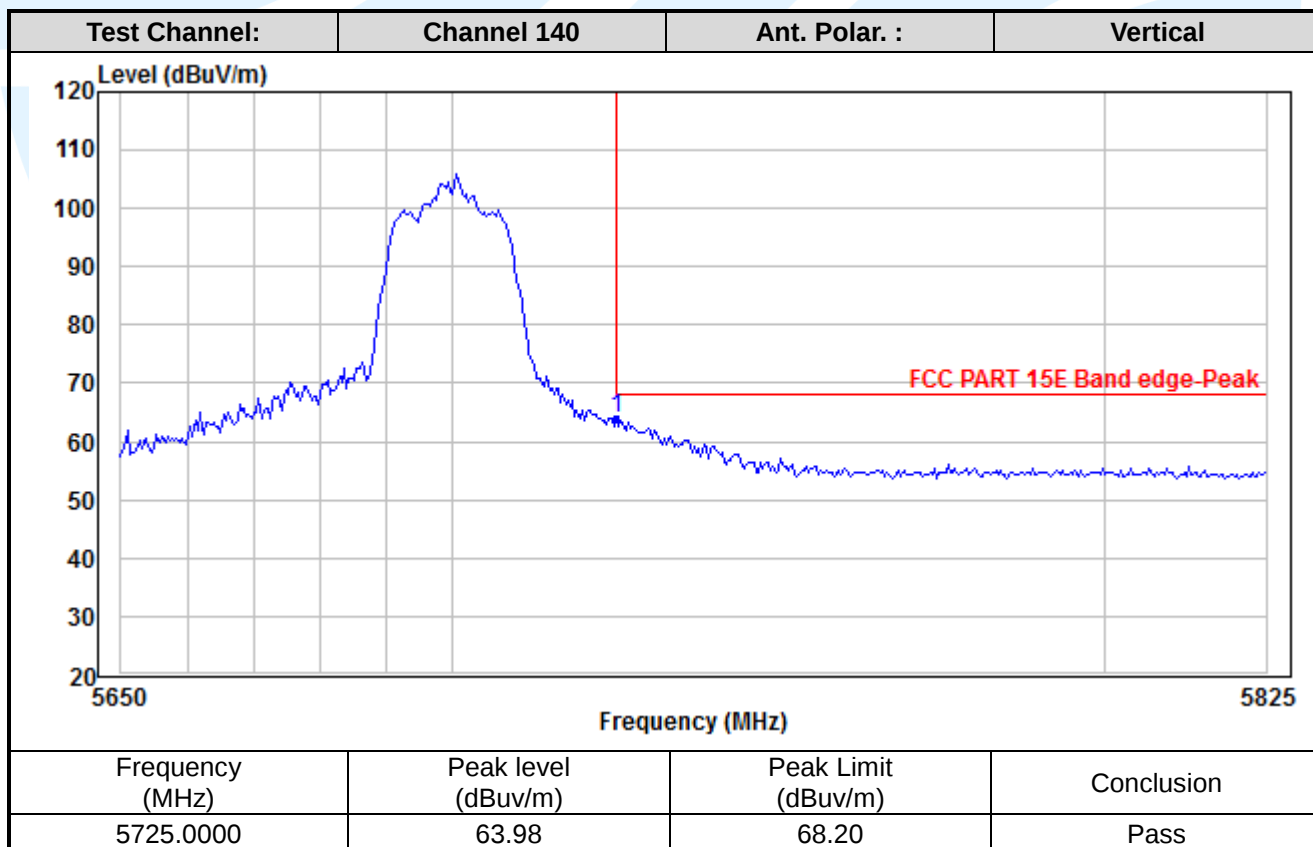
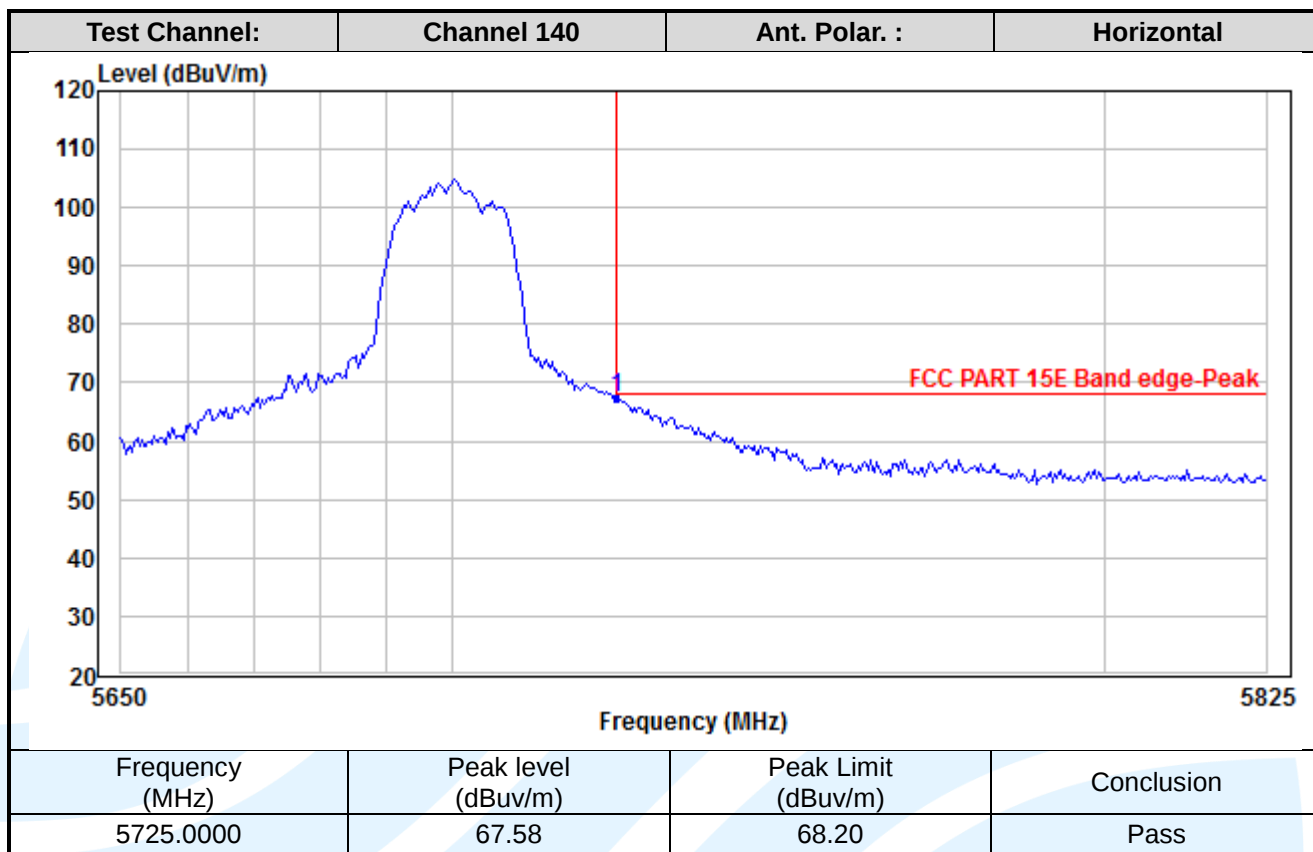
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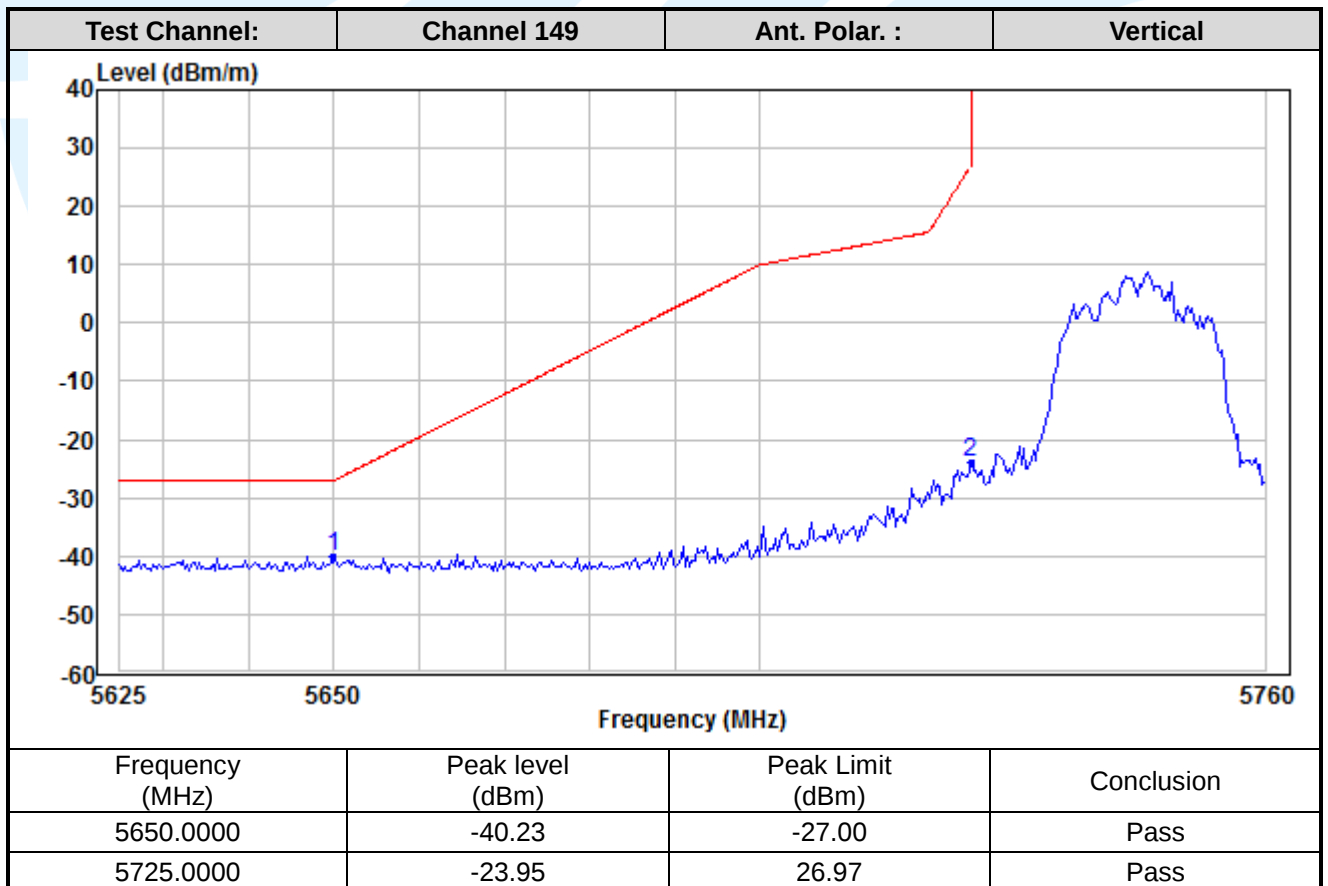
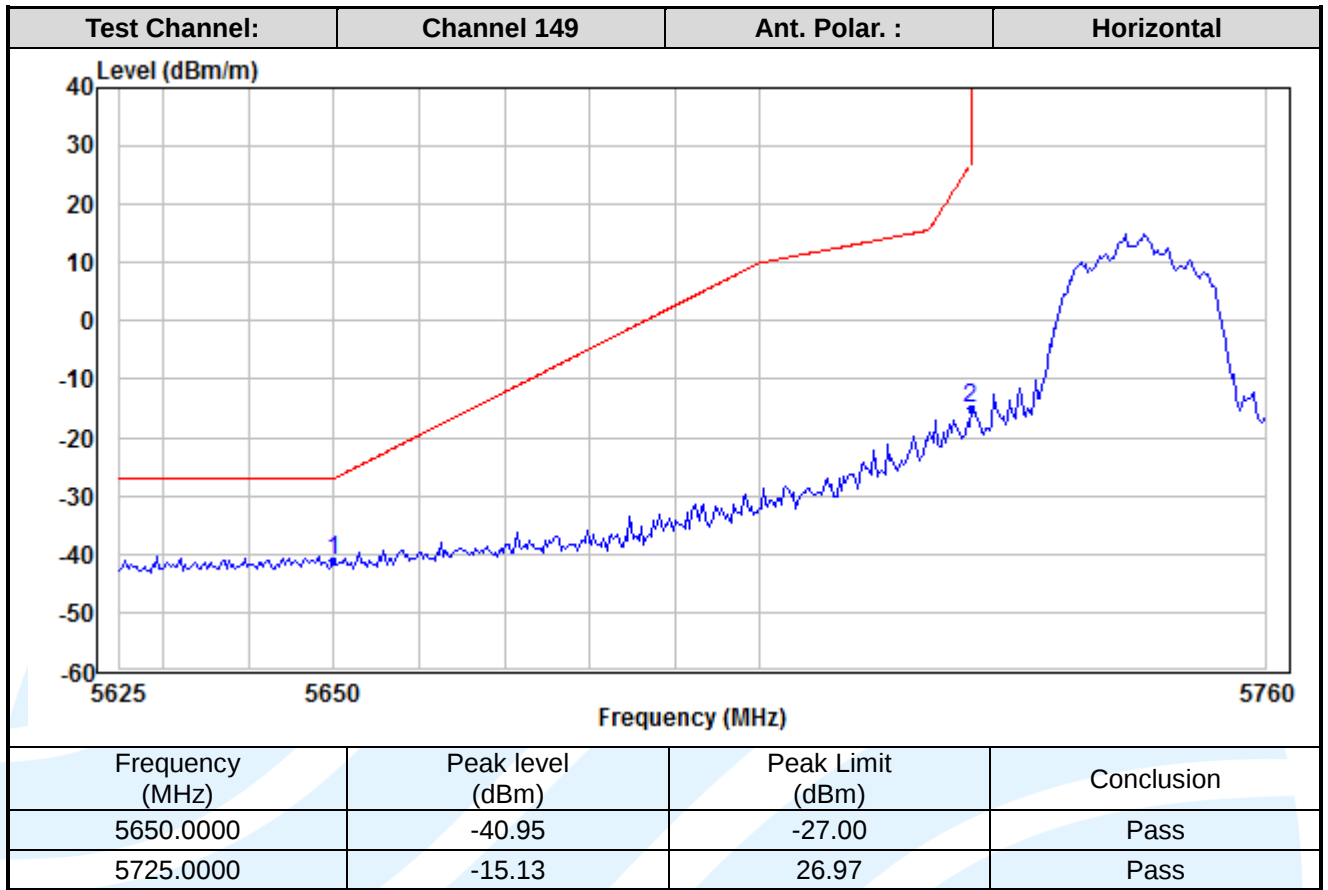
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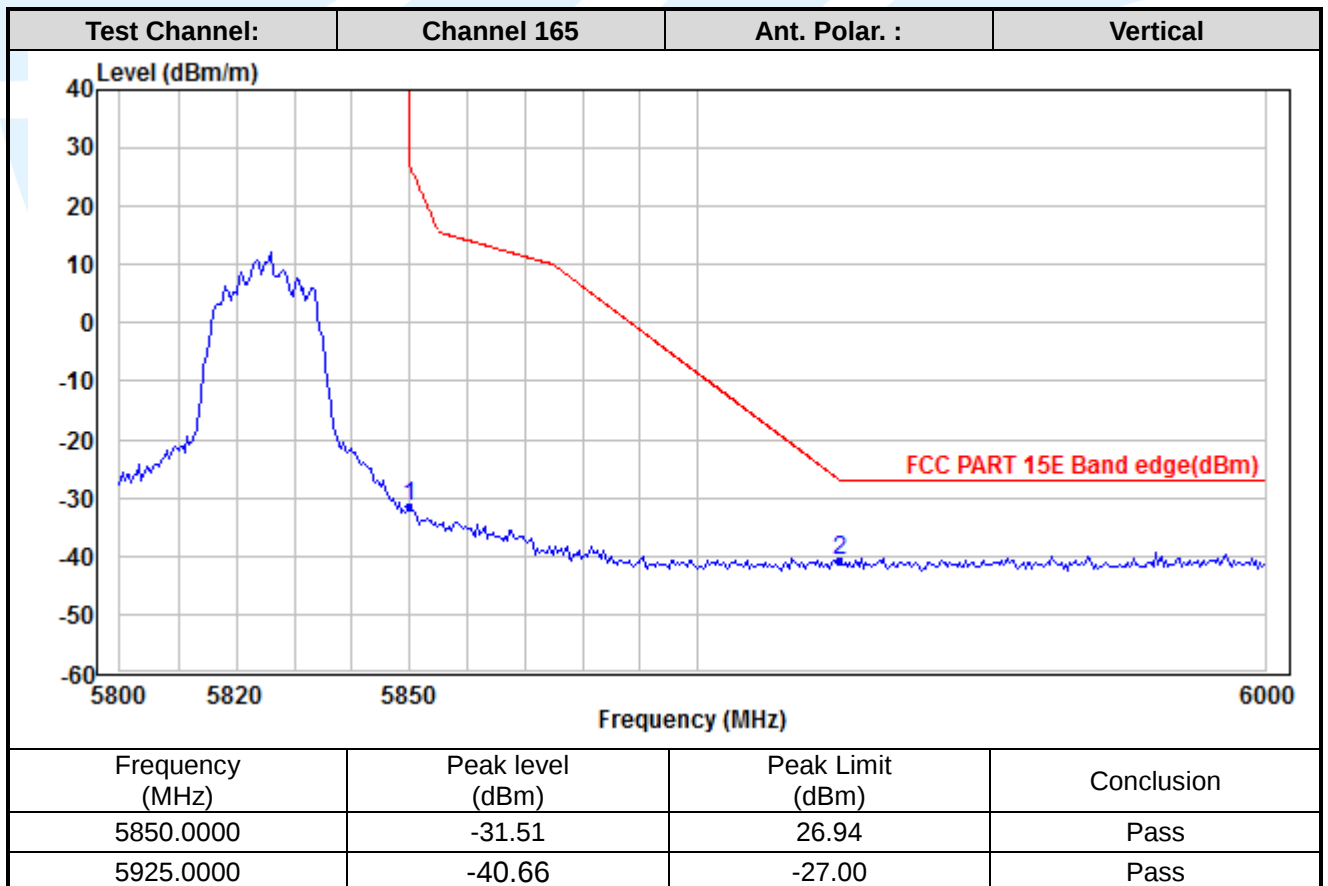
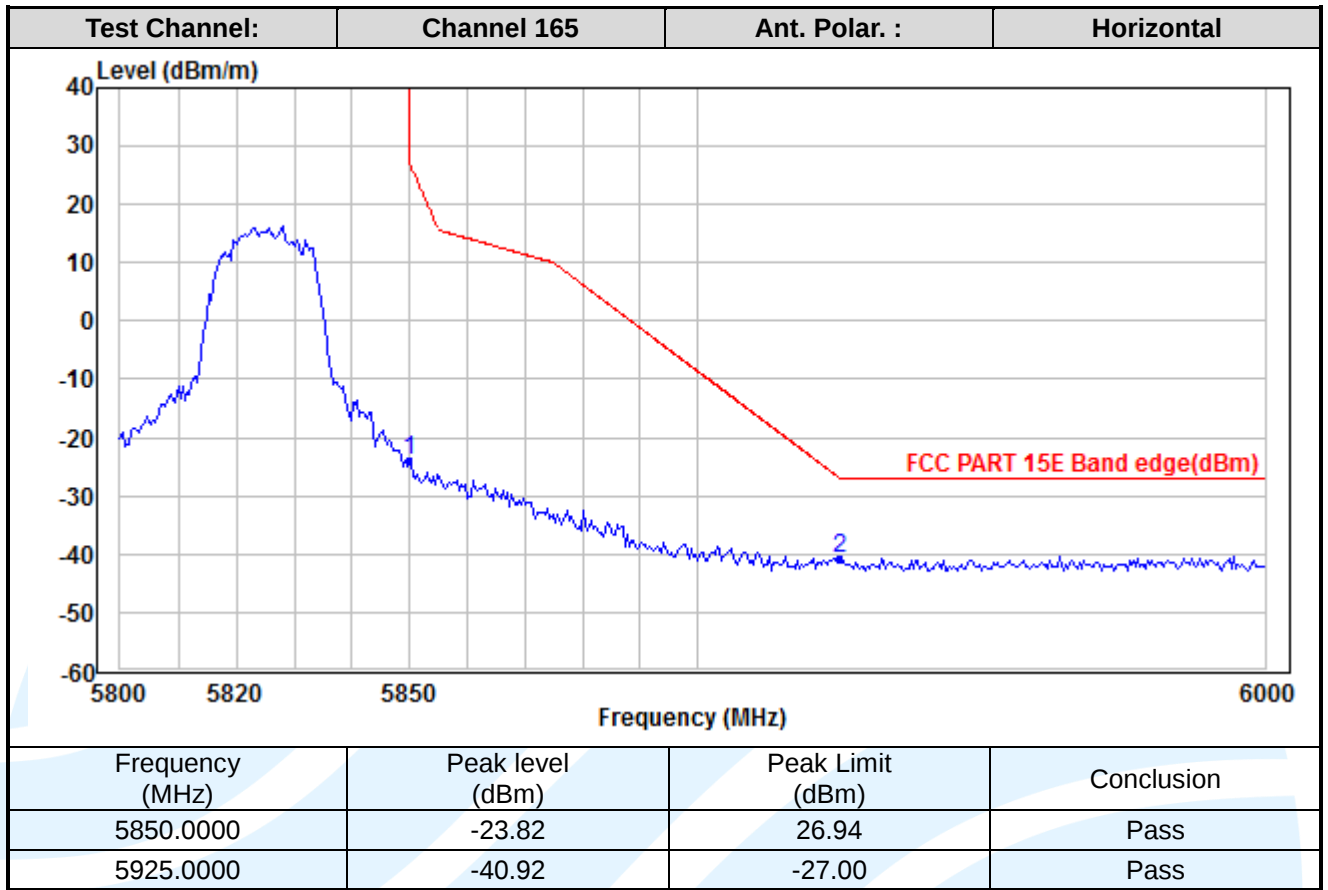
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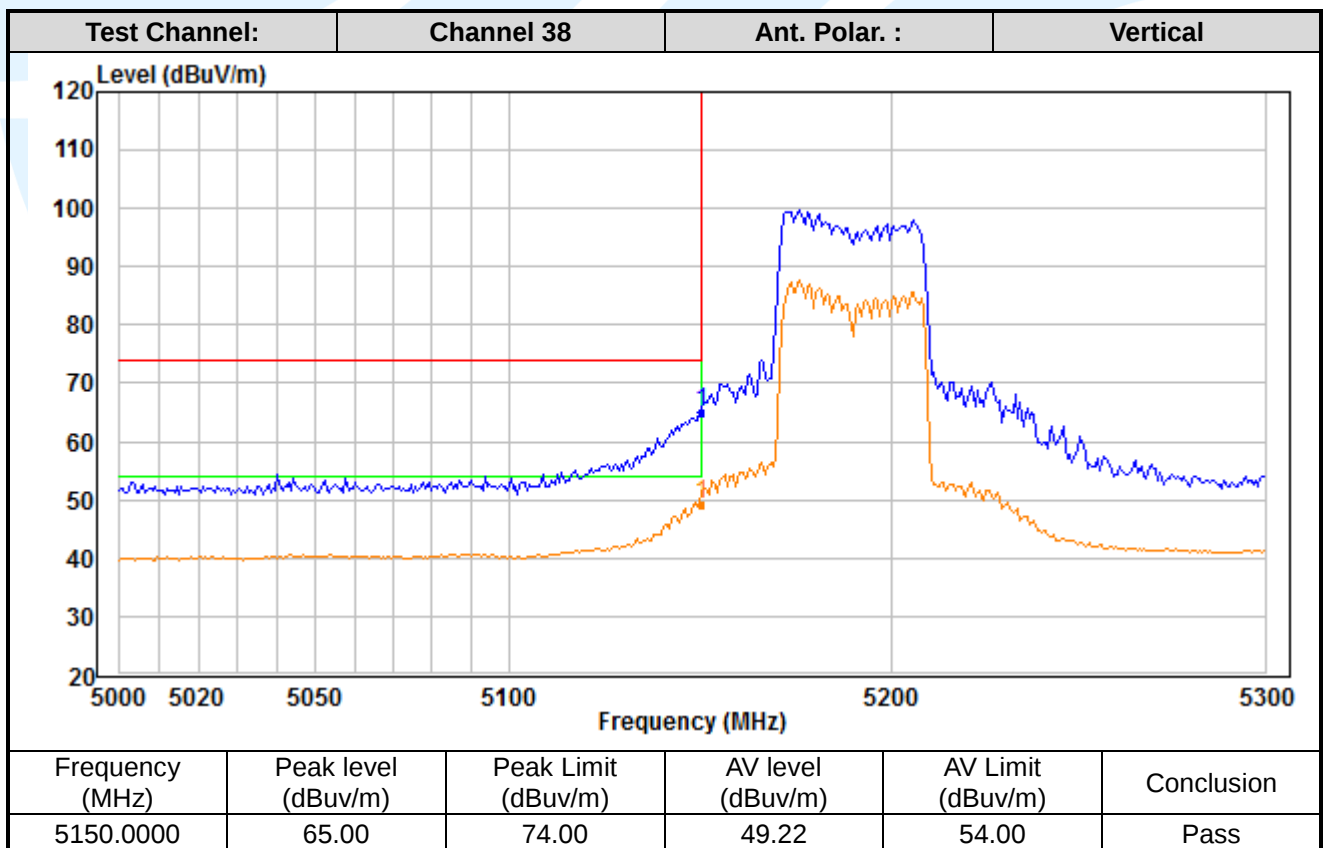
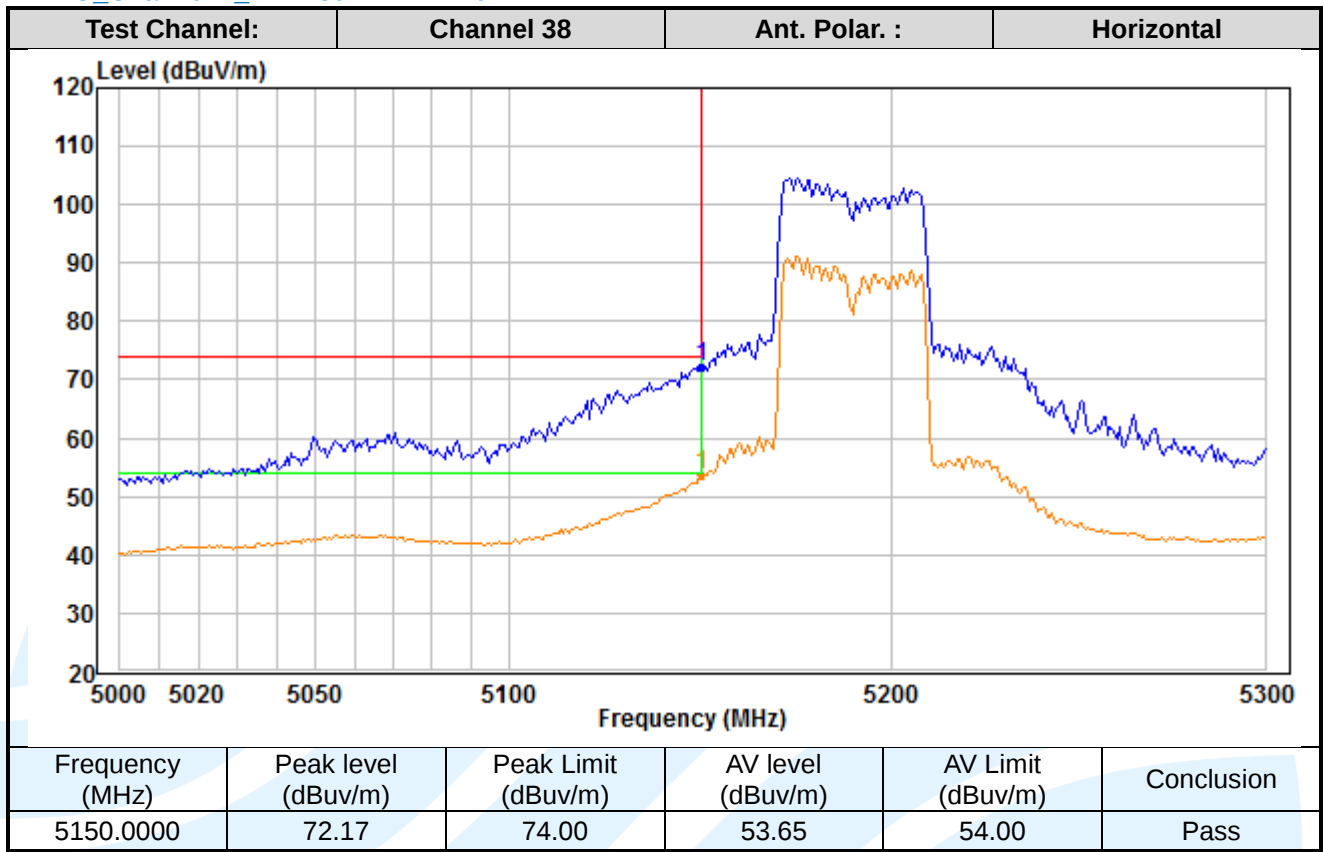
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MIMO Chain 0+1_ IEEE 802.11n-HT40



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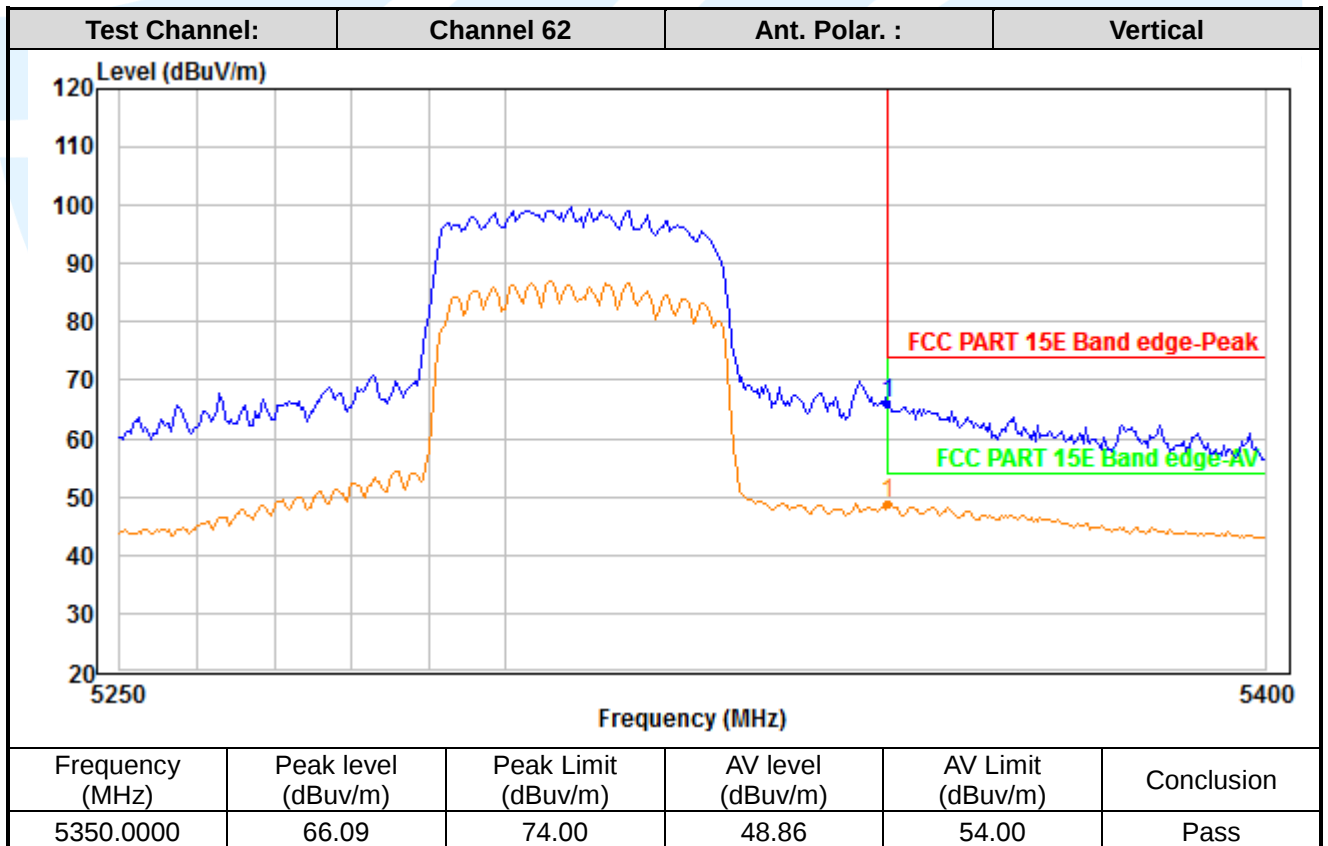
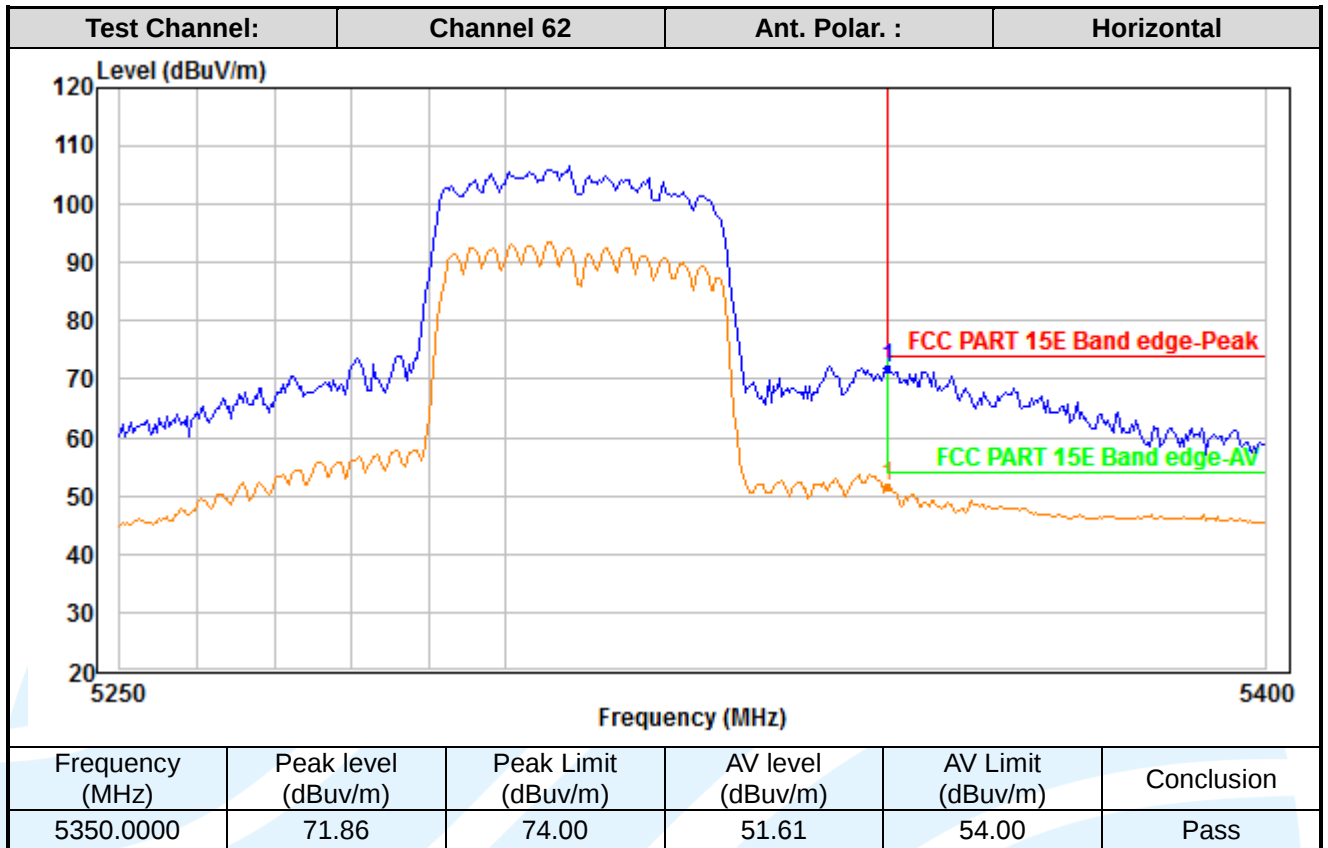
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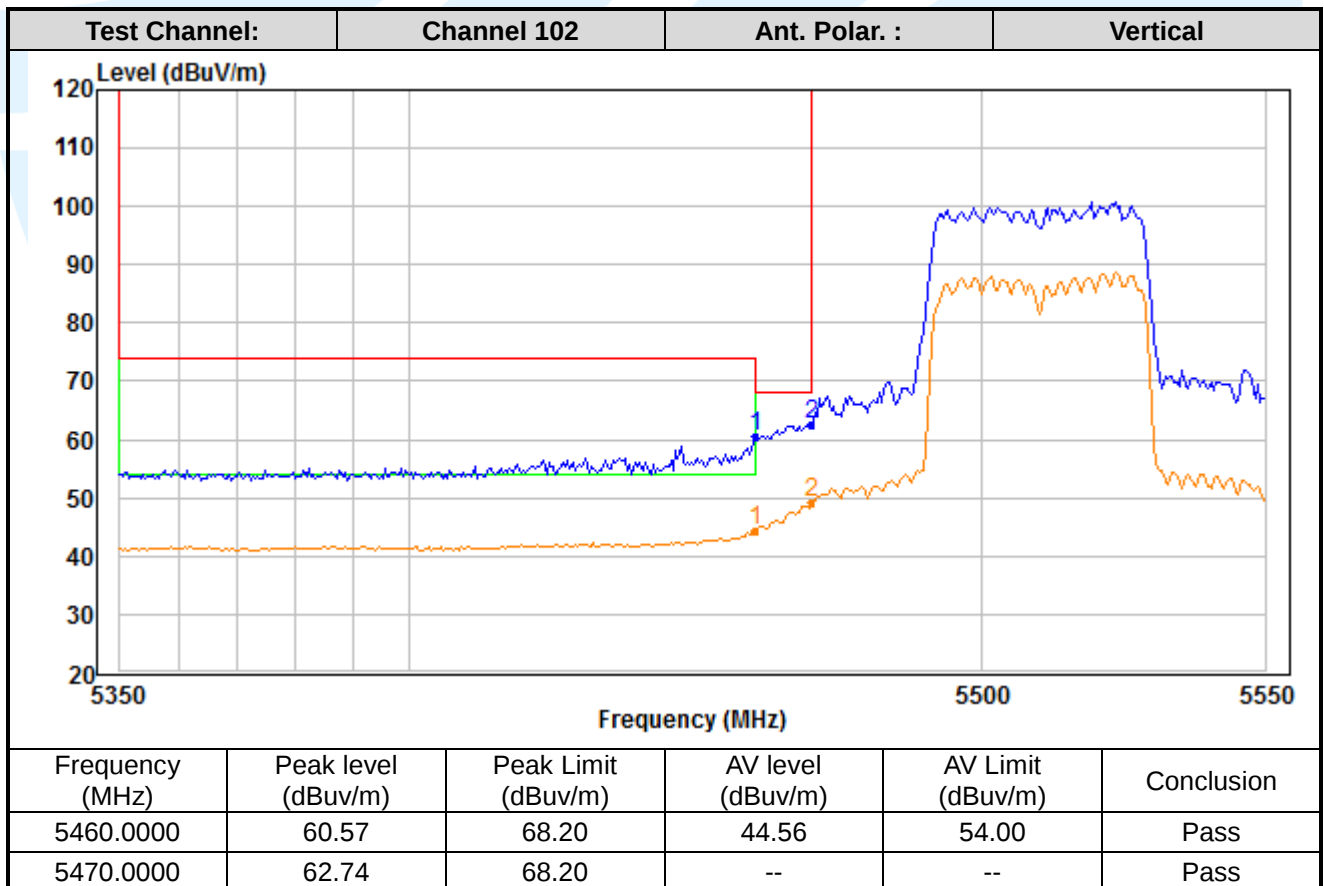
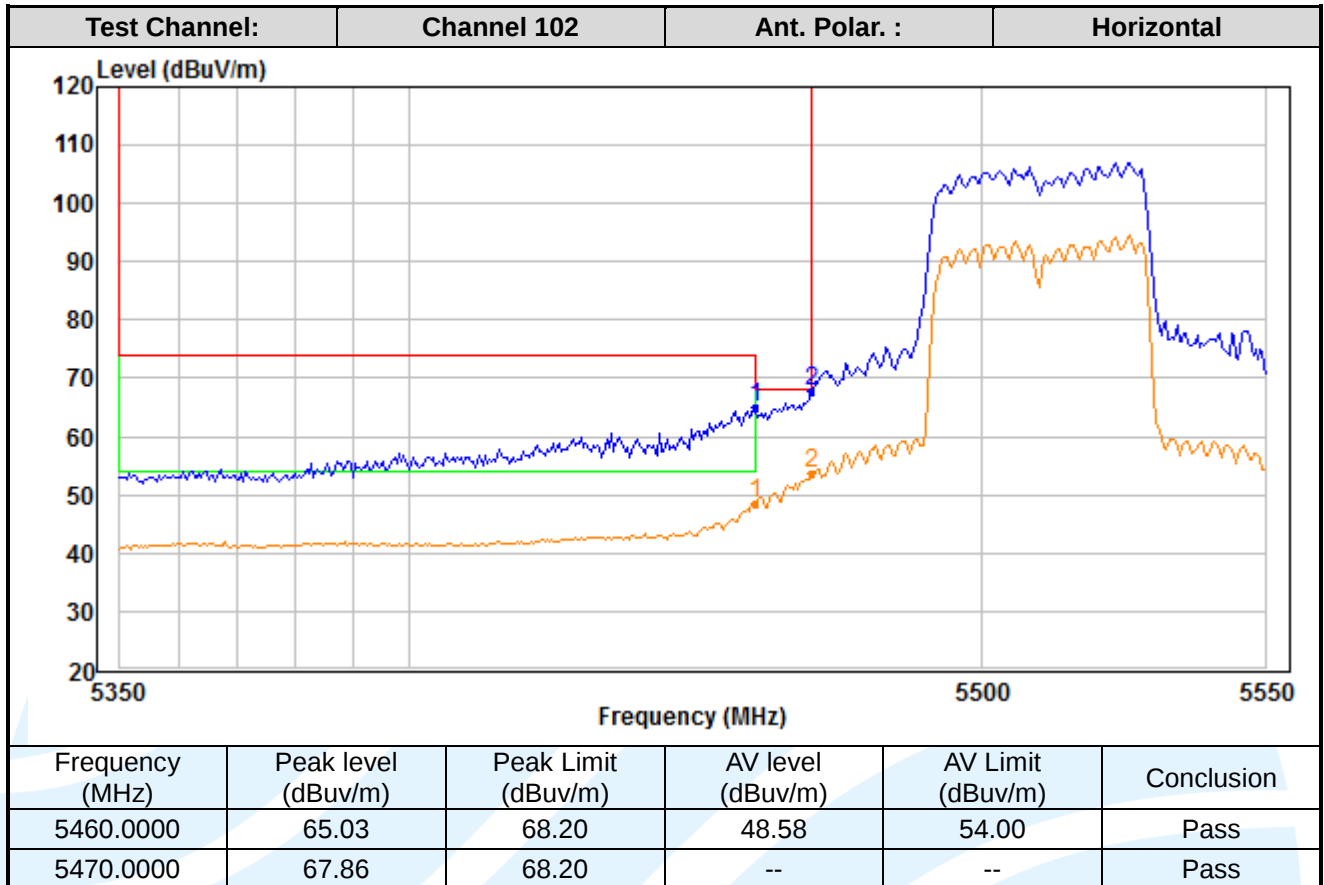
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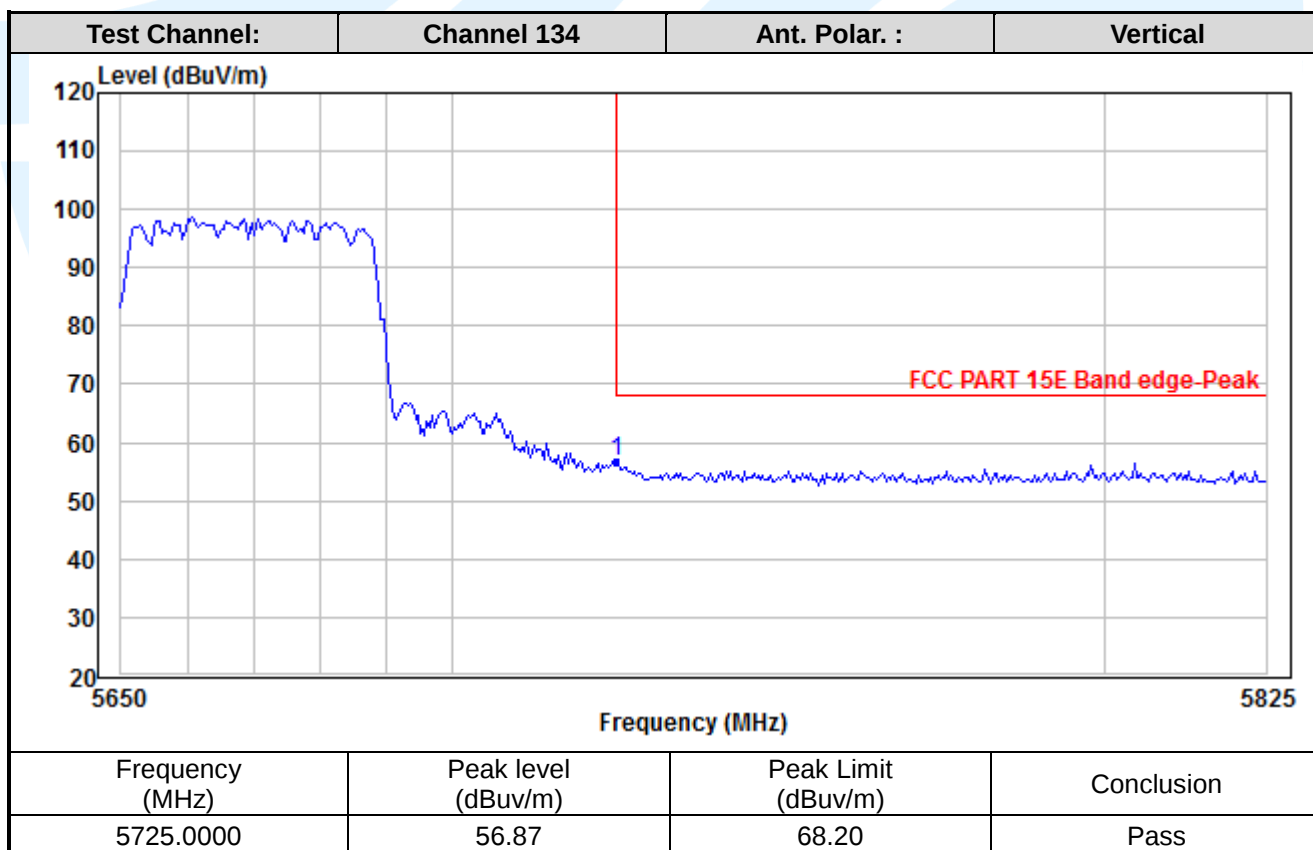
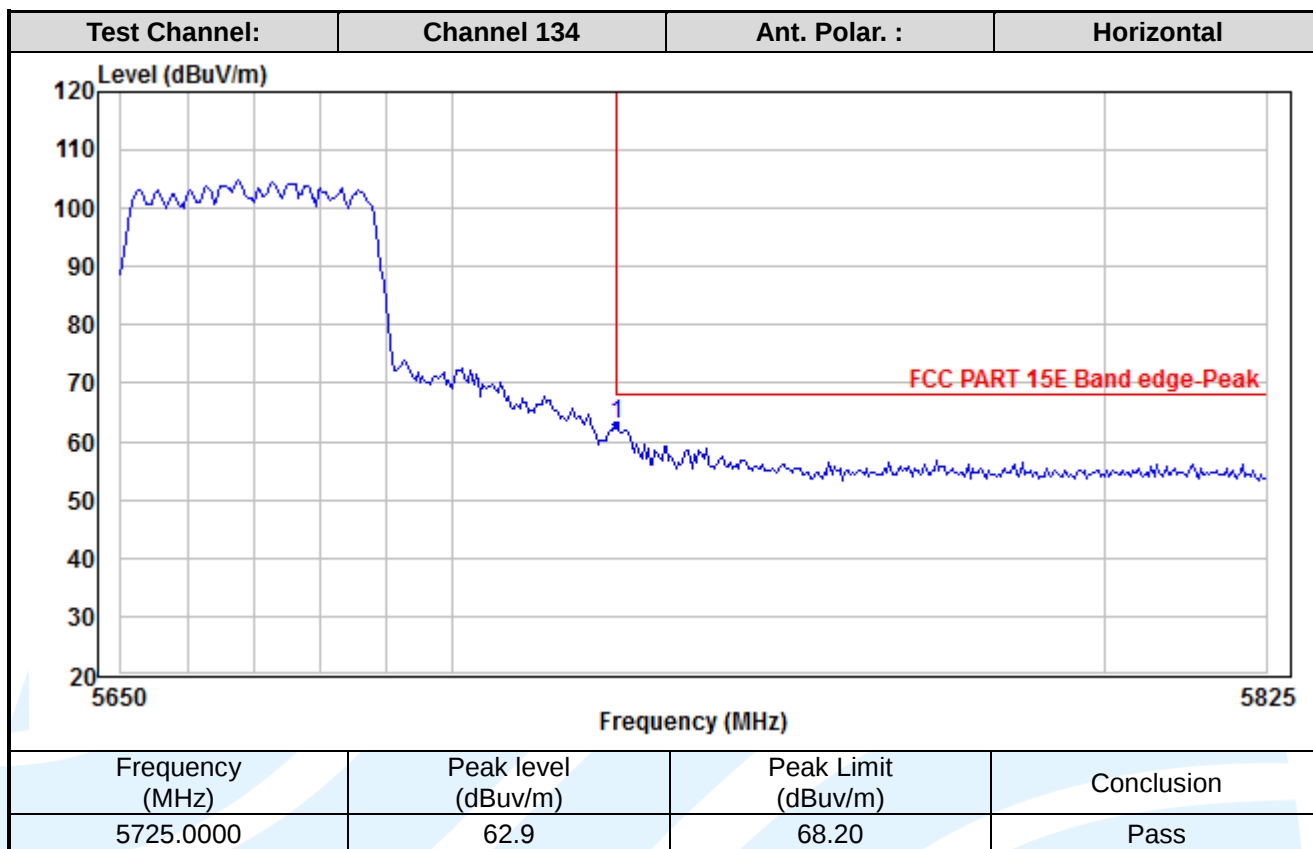
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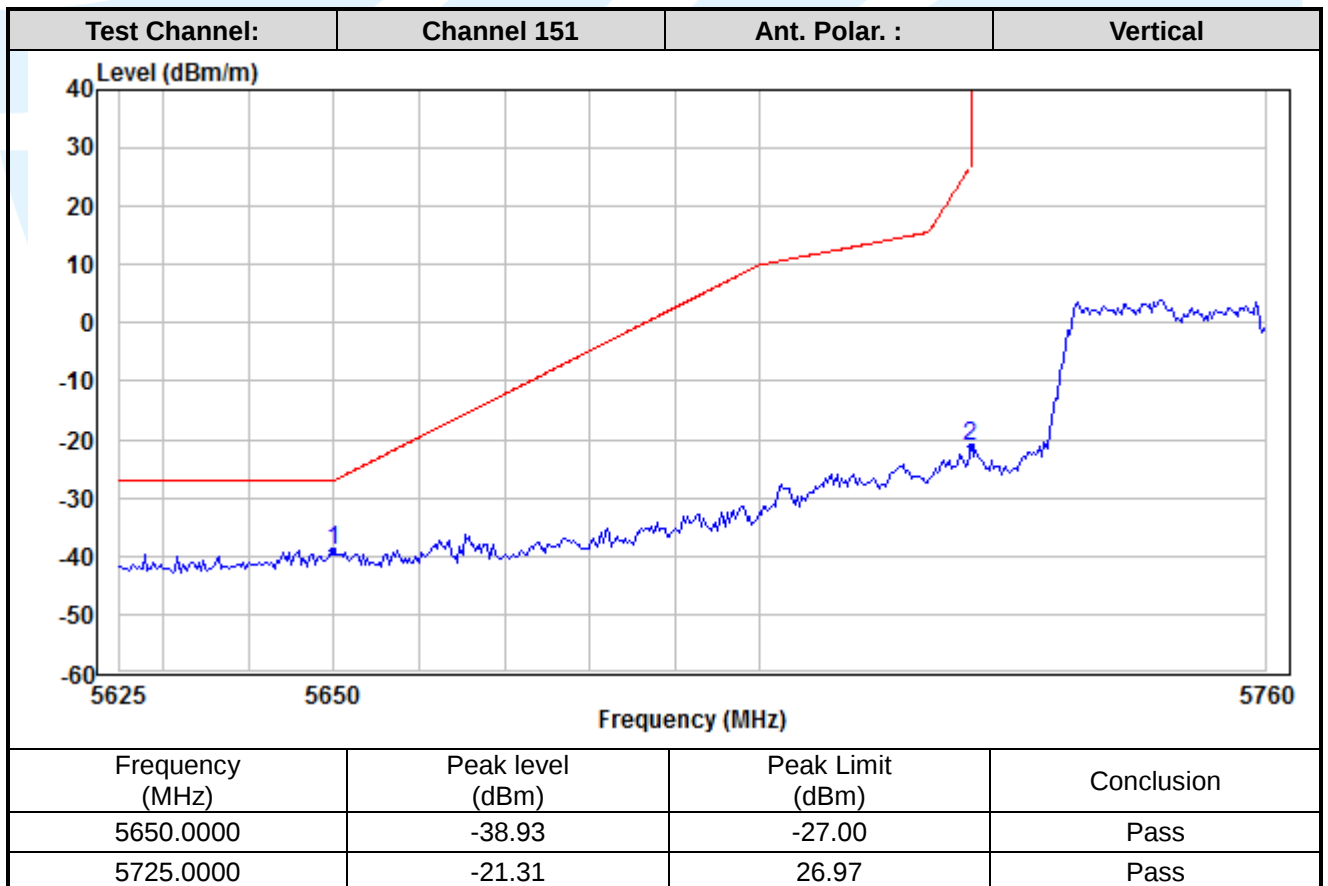
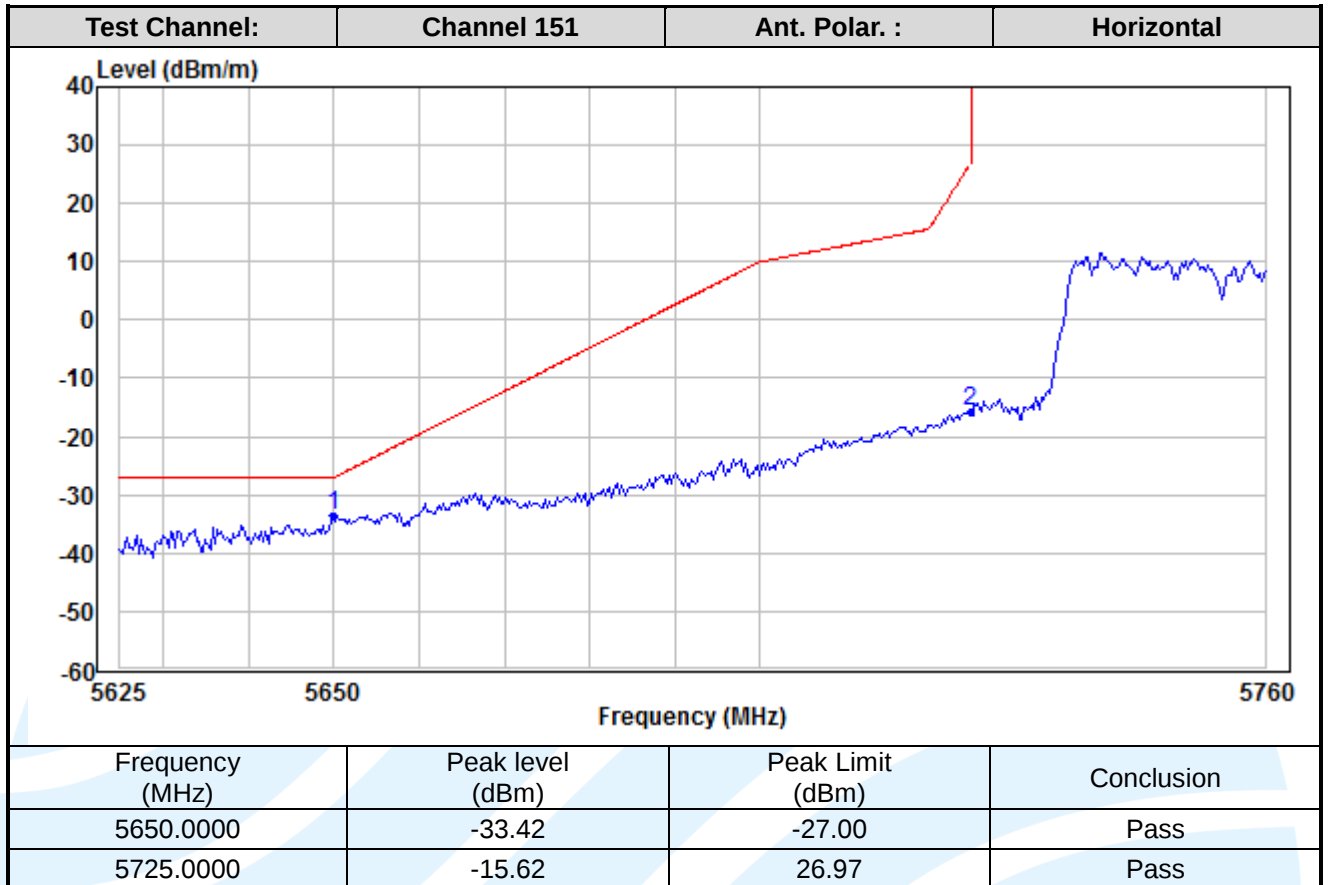
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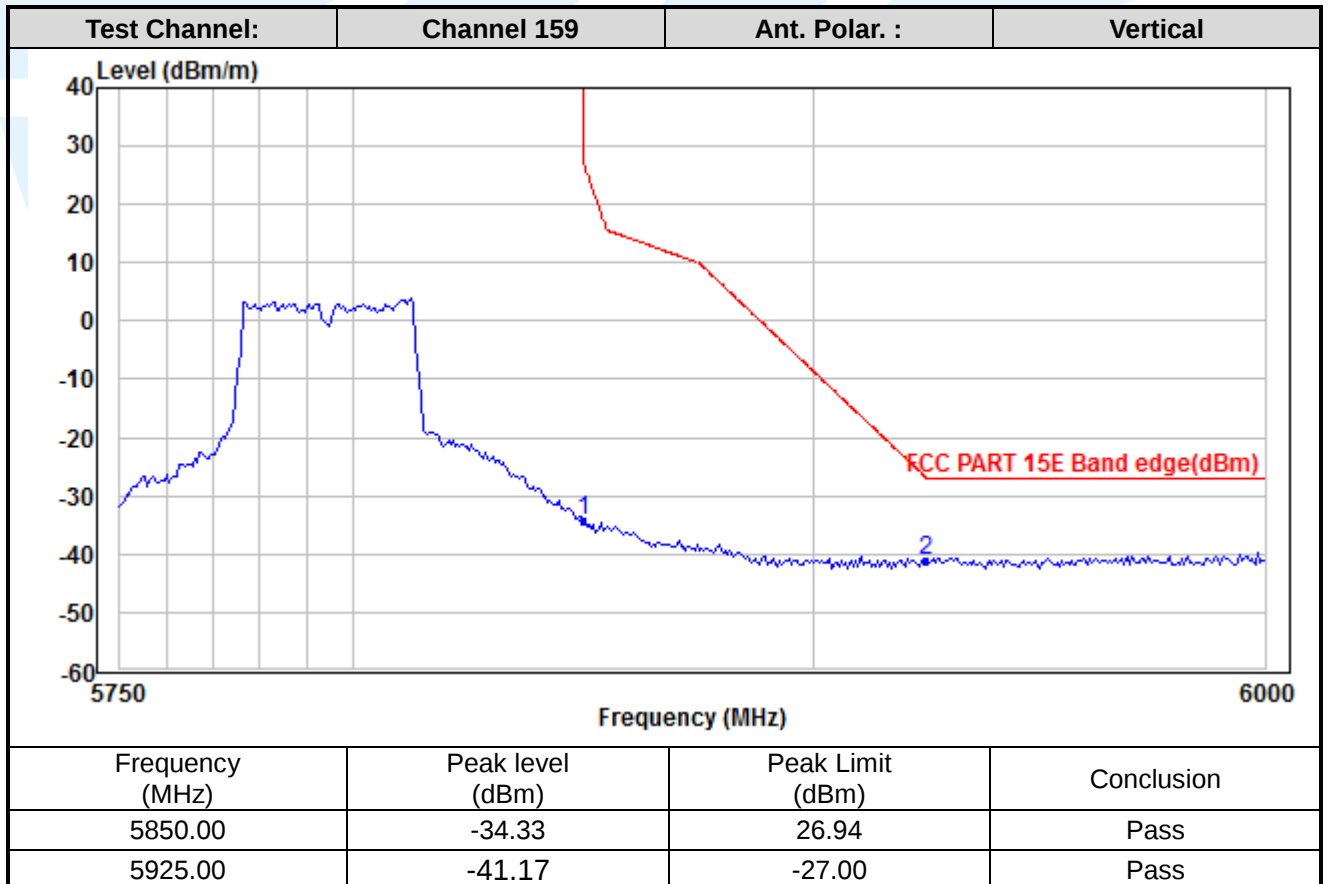
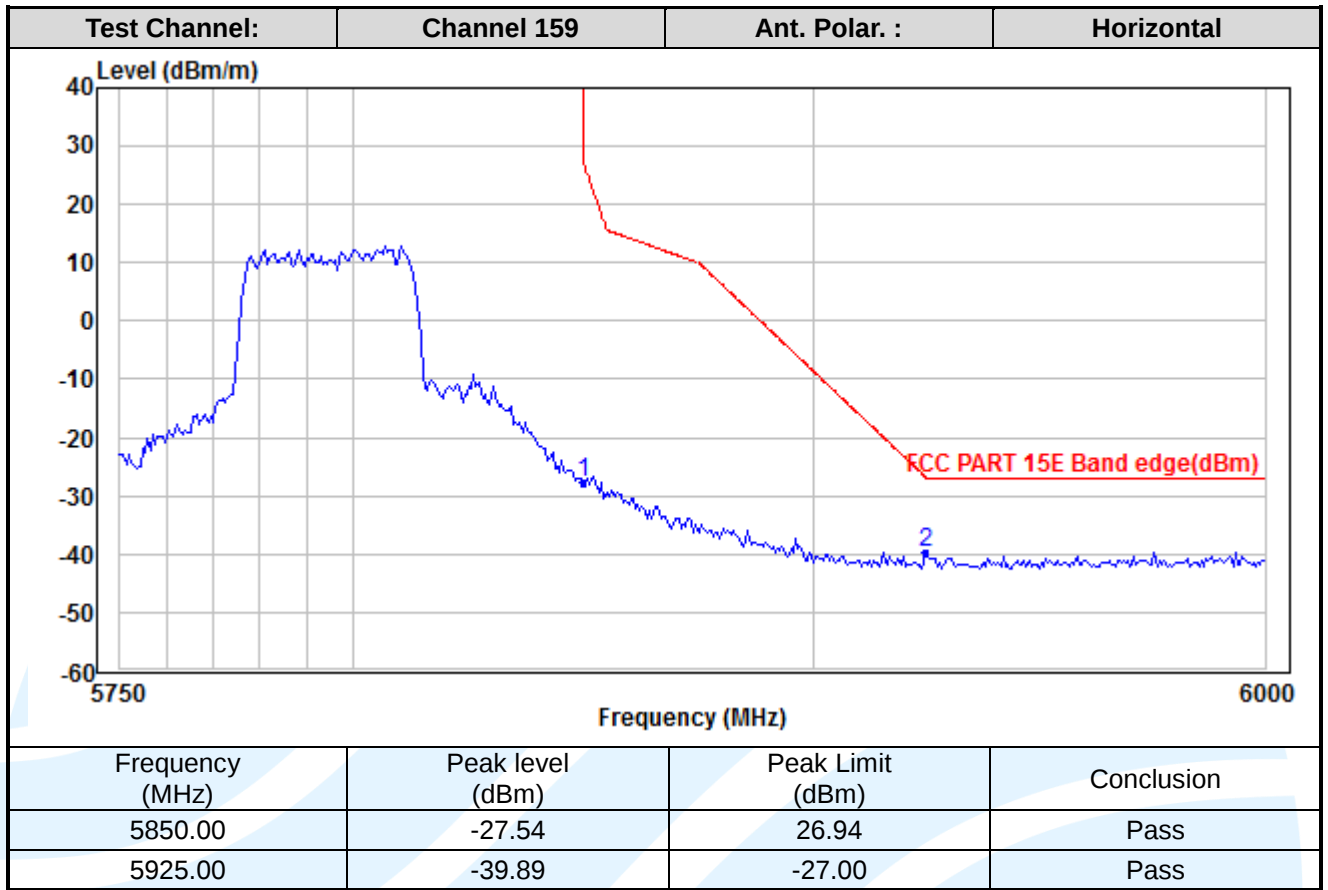
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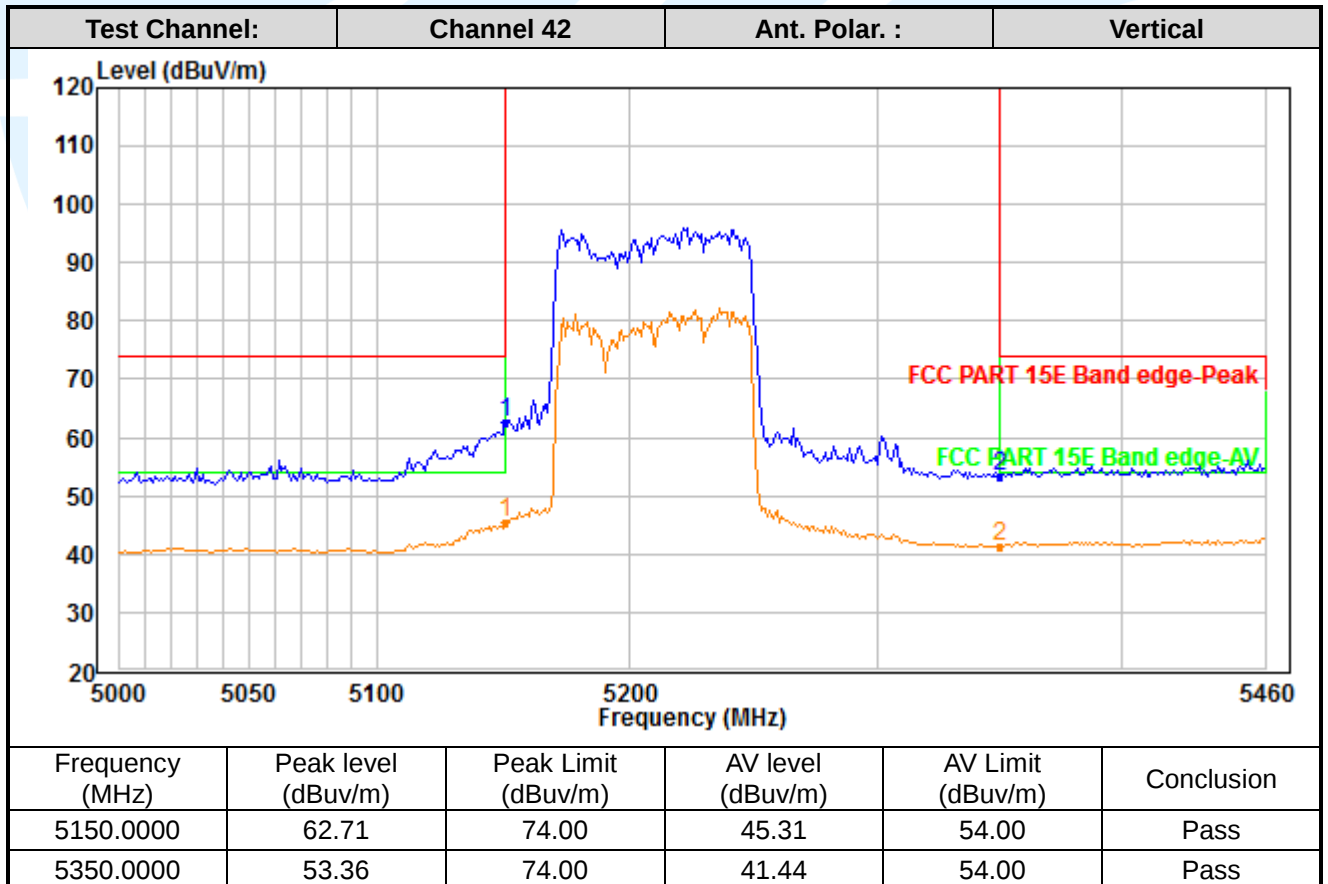
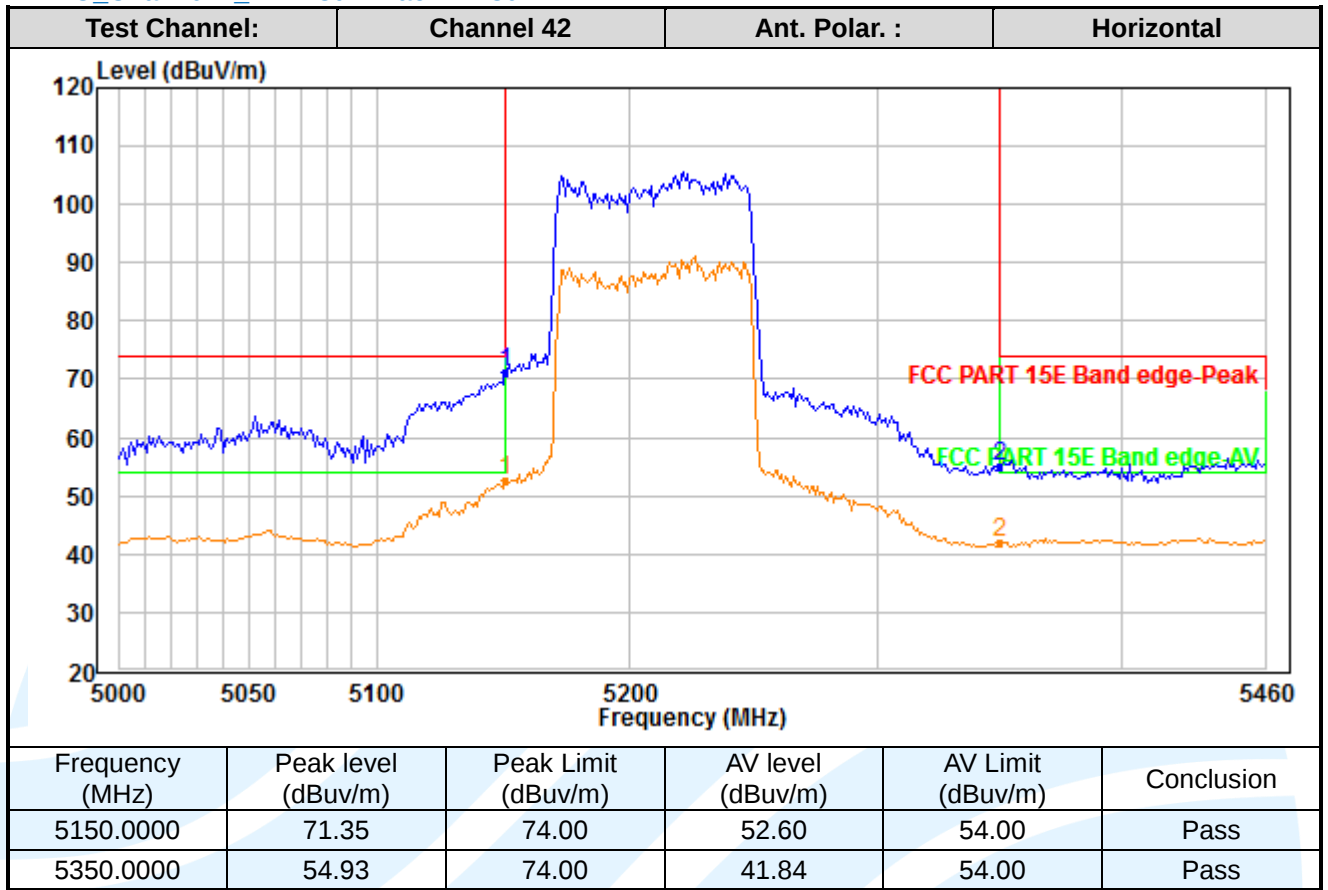
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MIMO_Chain 0+1_ IEEE 802.11ac-VHT80



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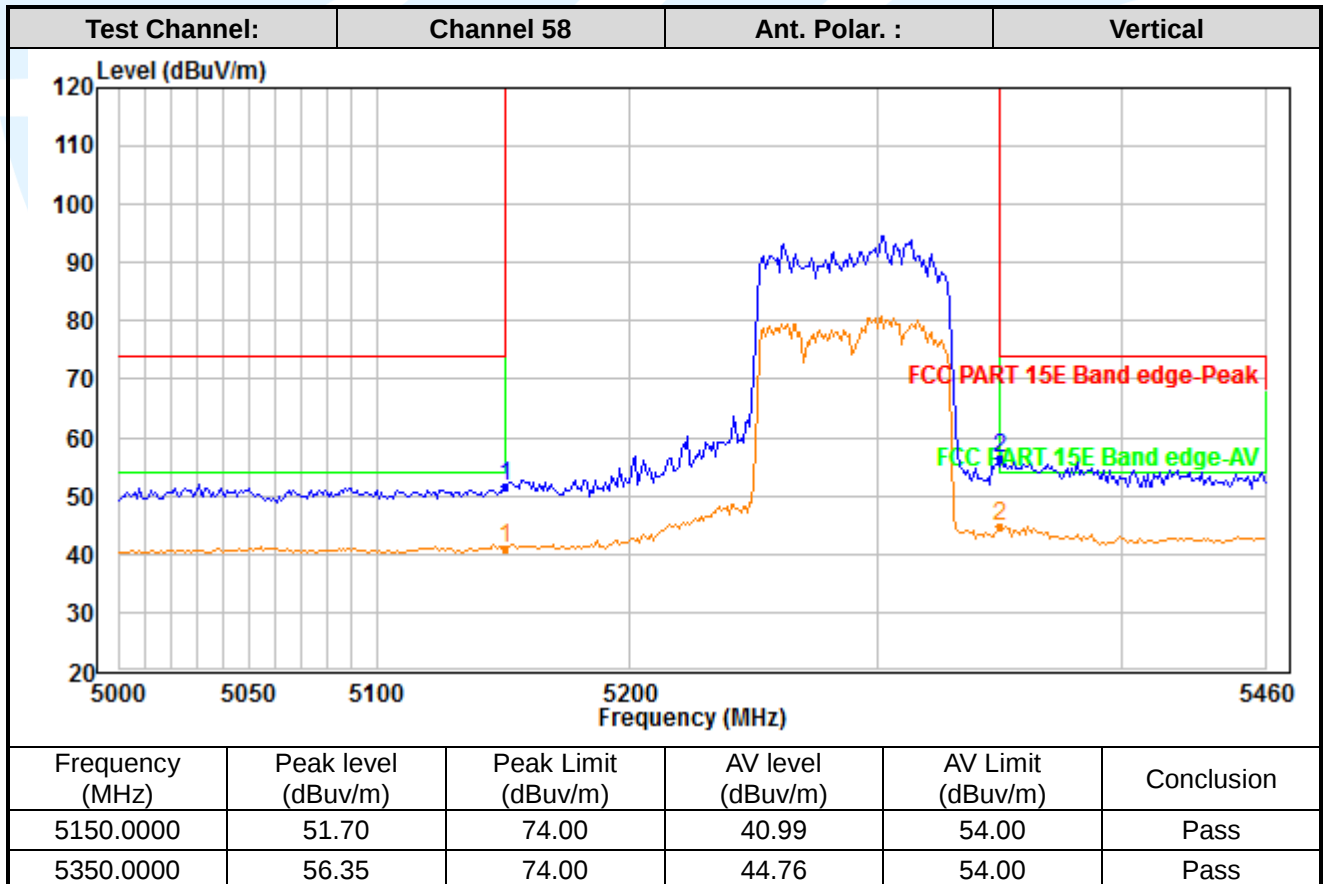
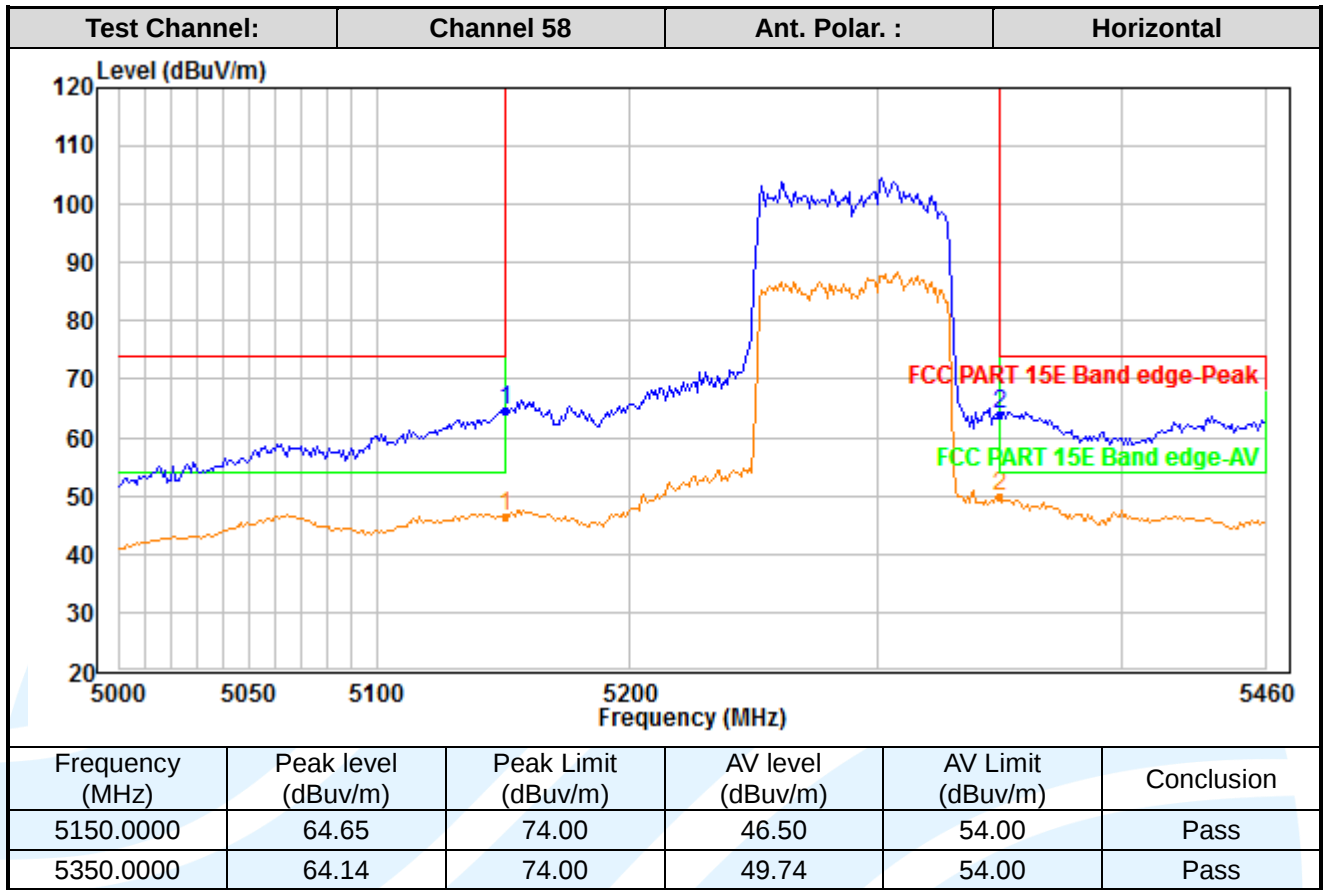
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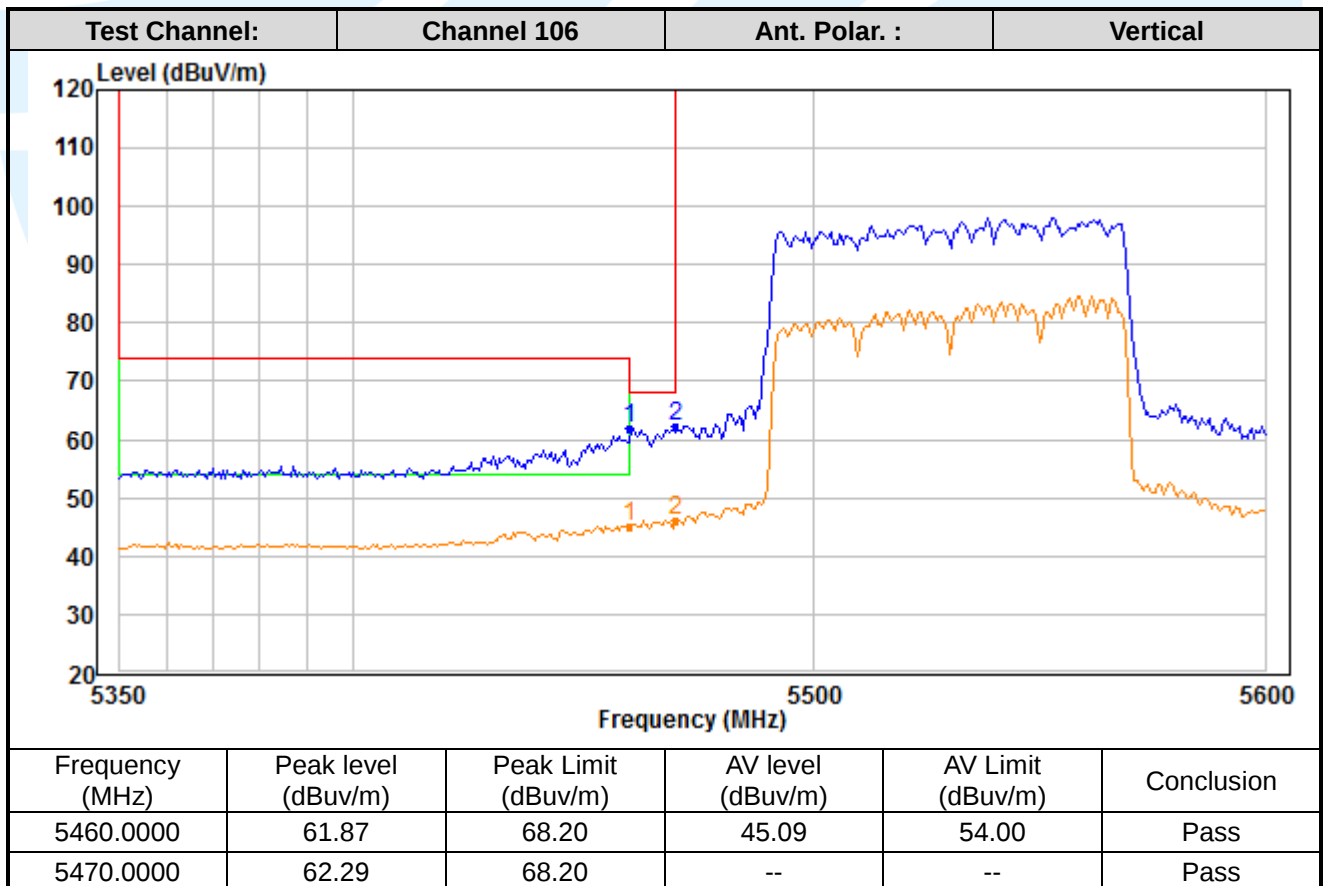
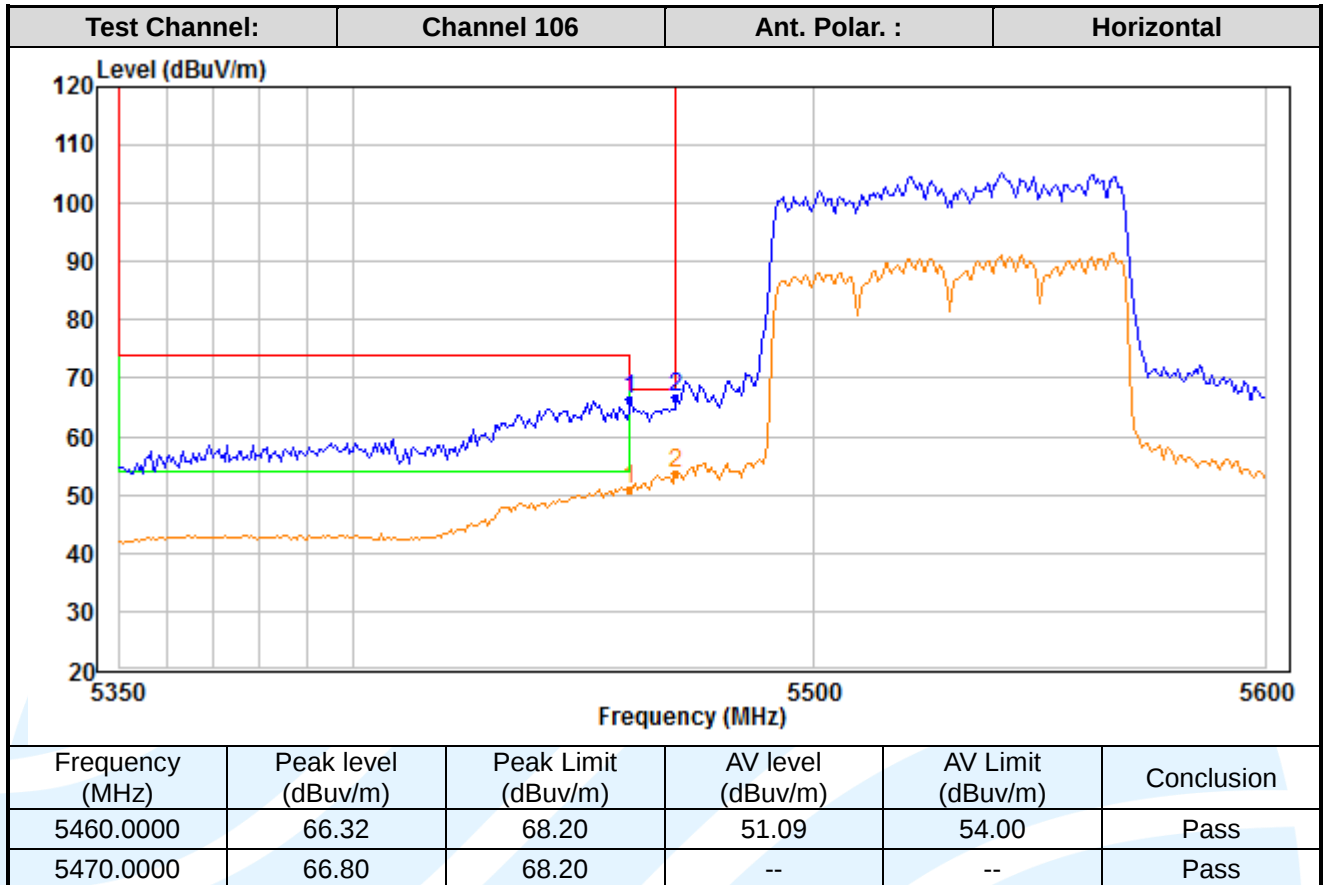
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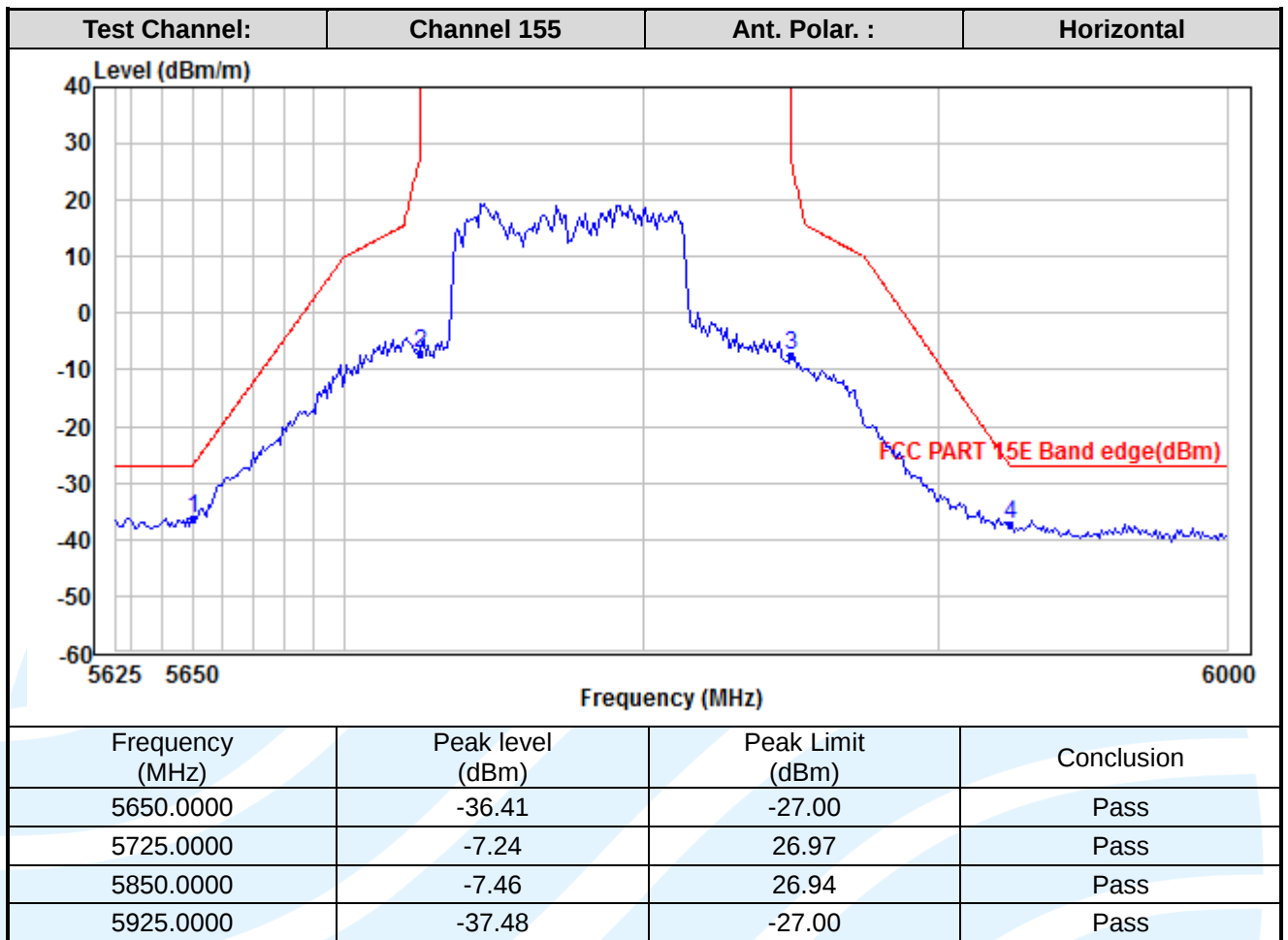
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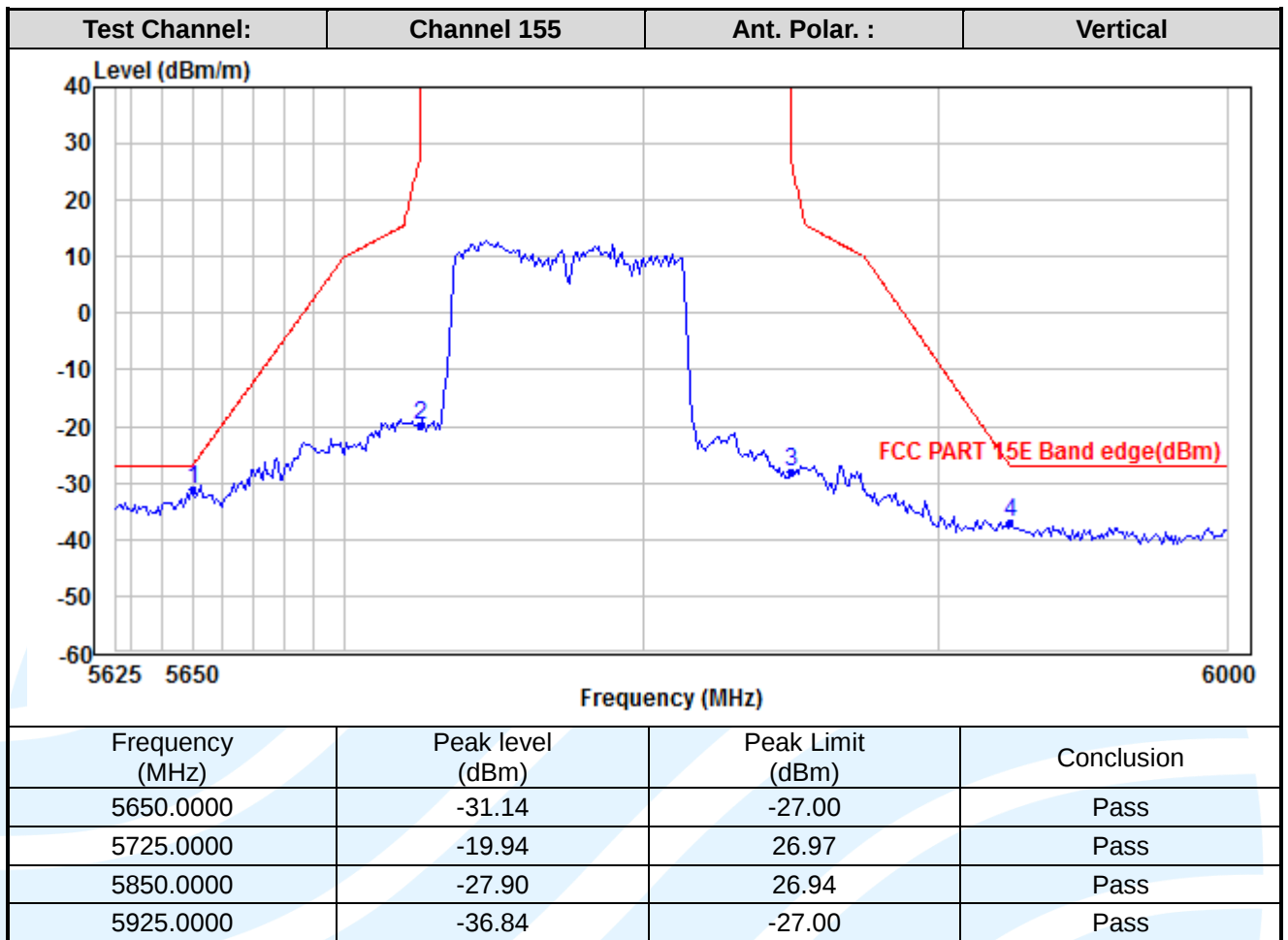
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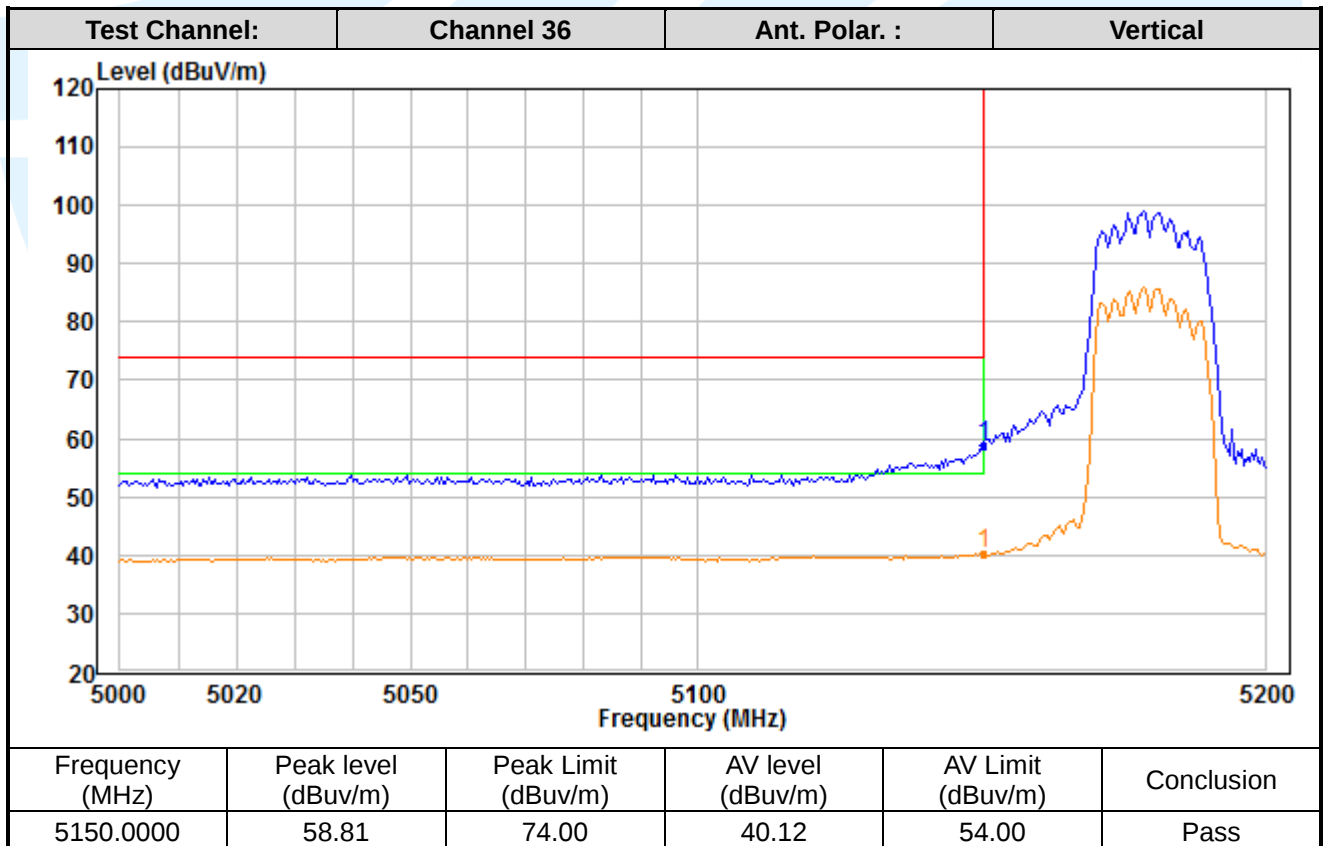
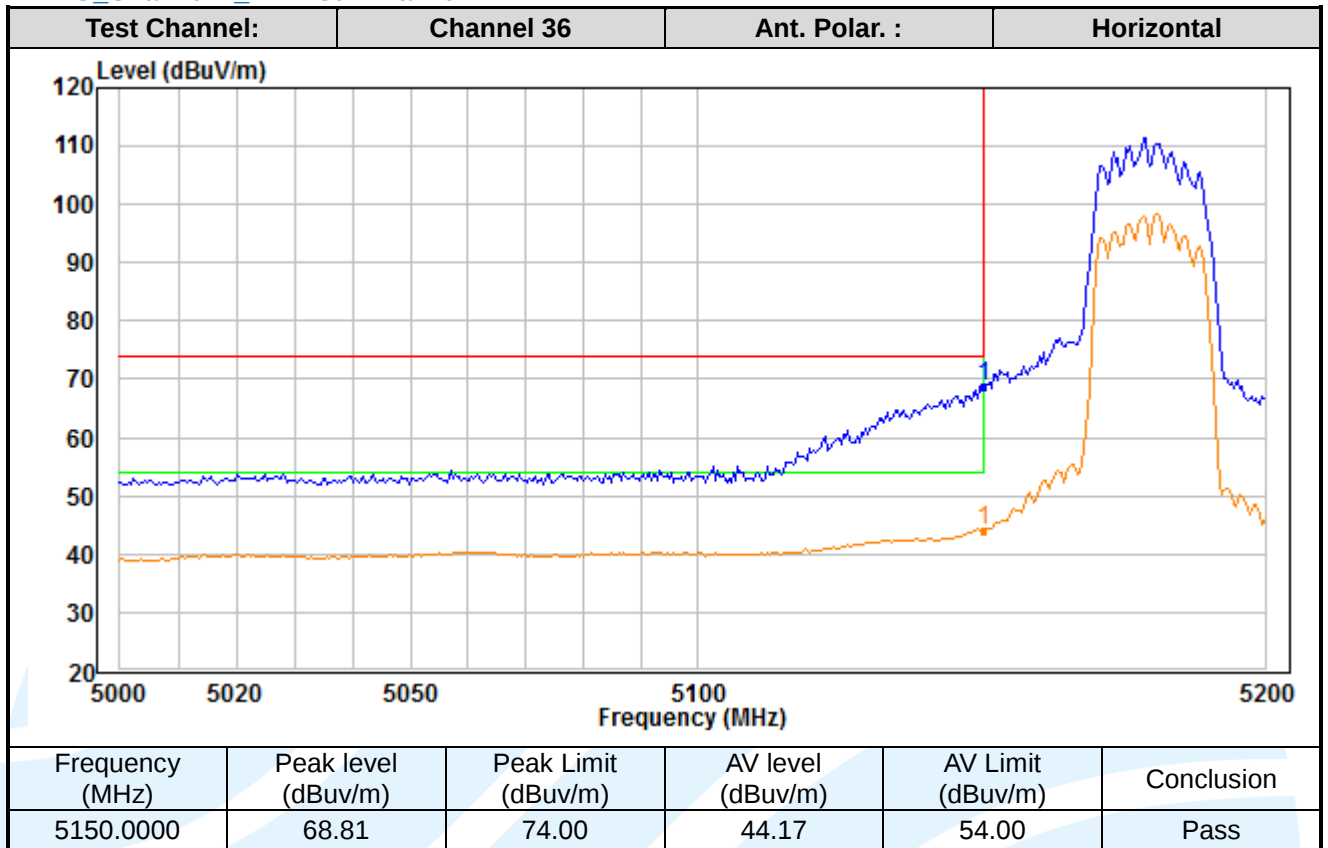
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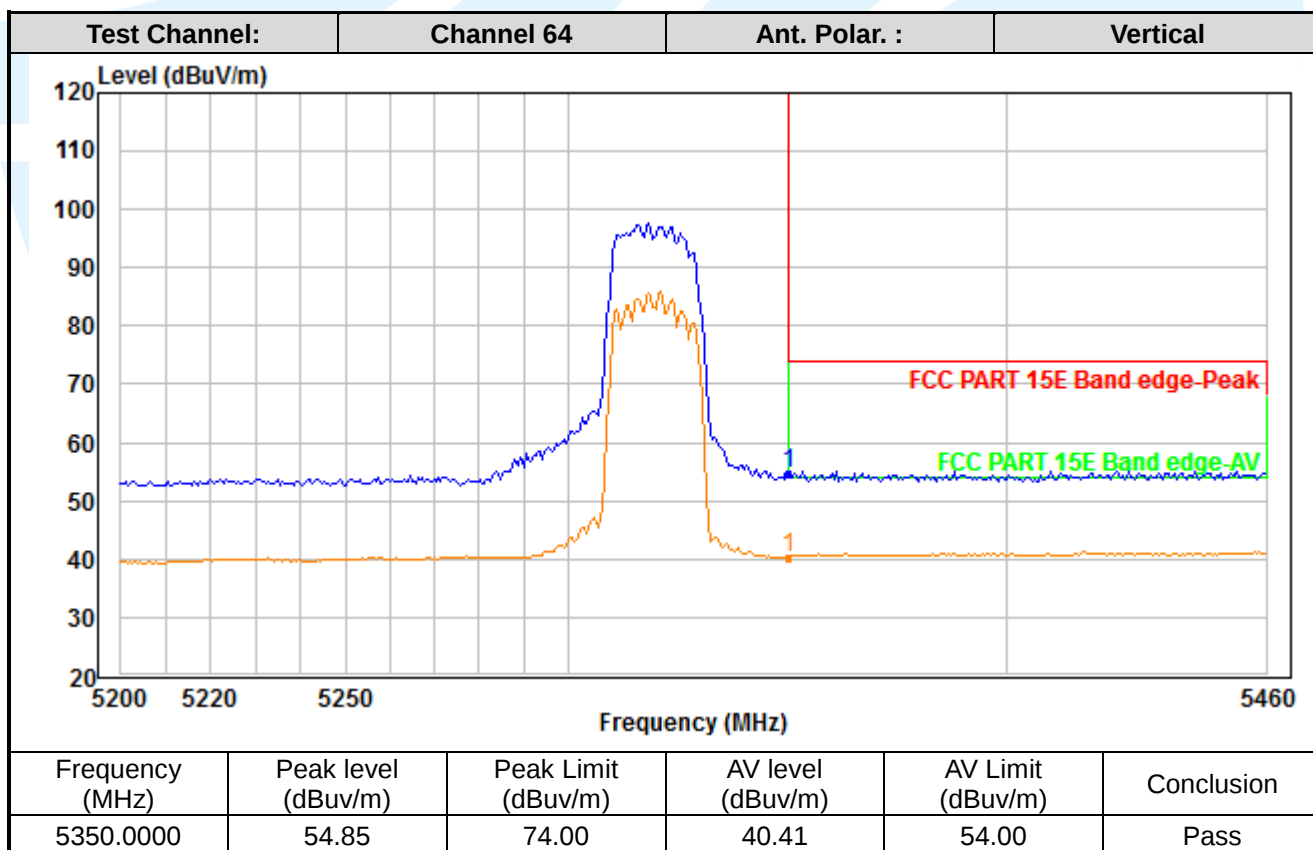
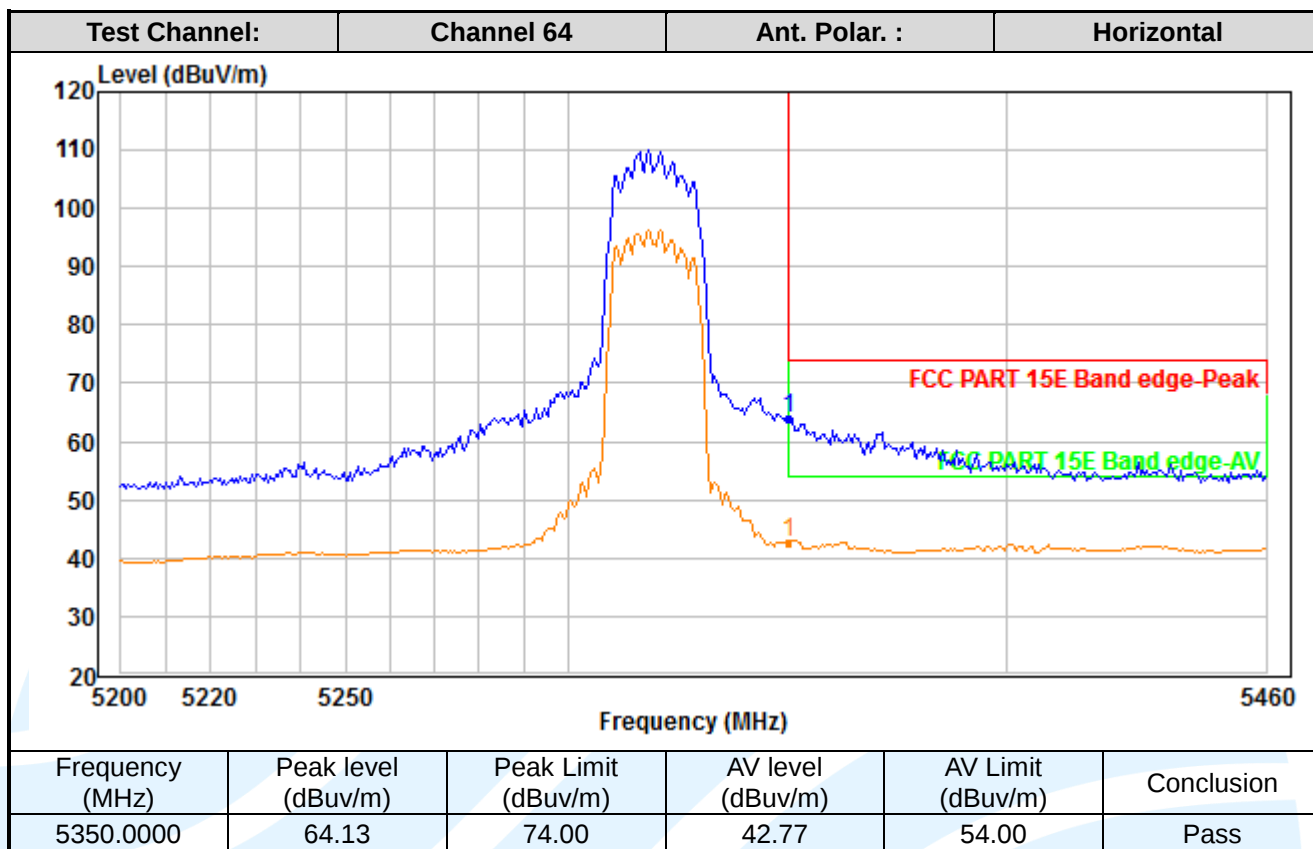
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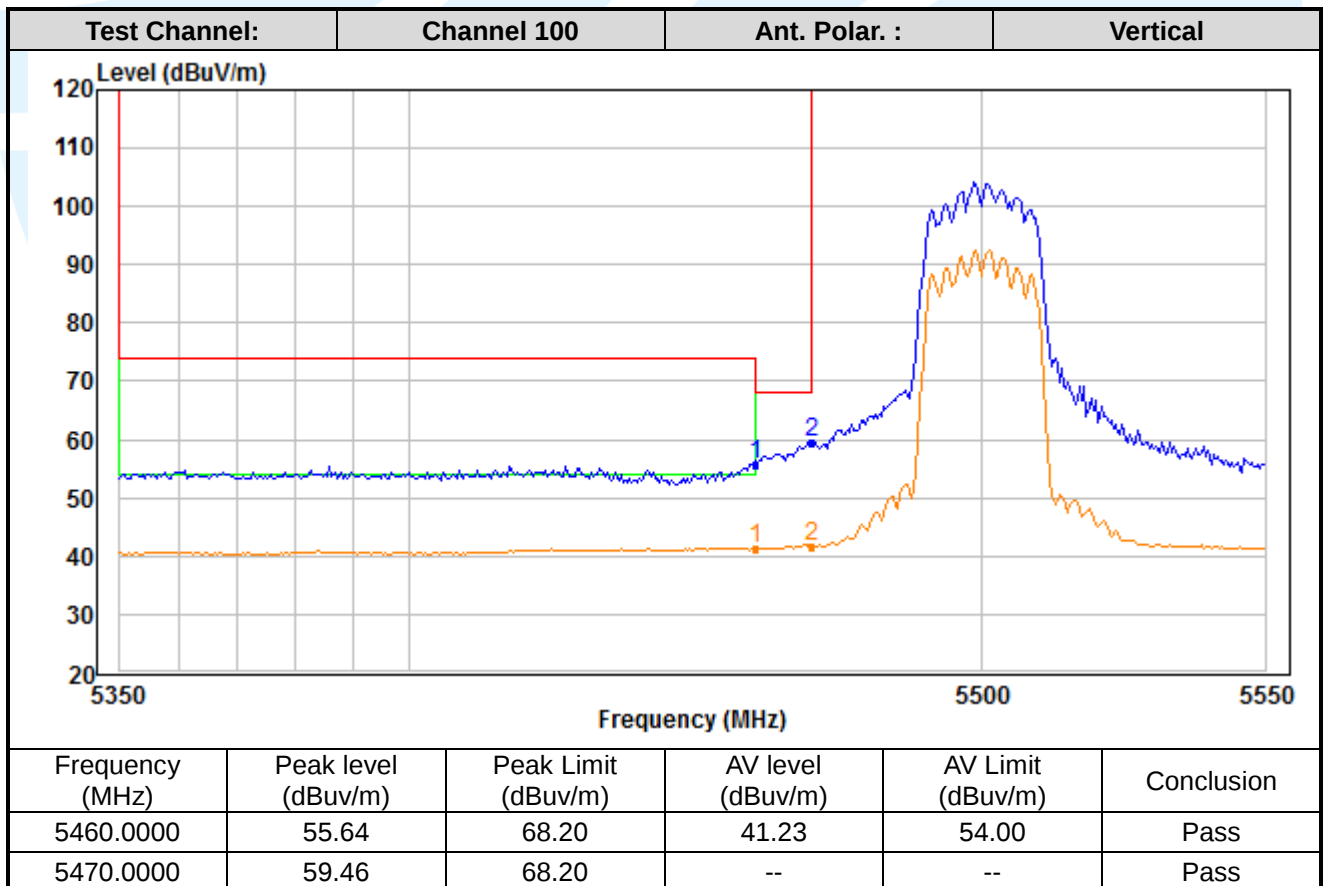
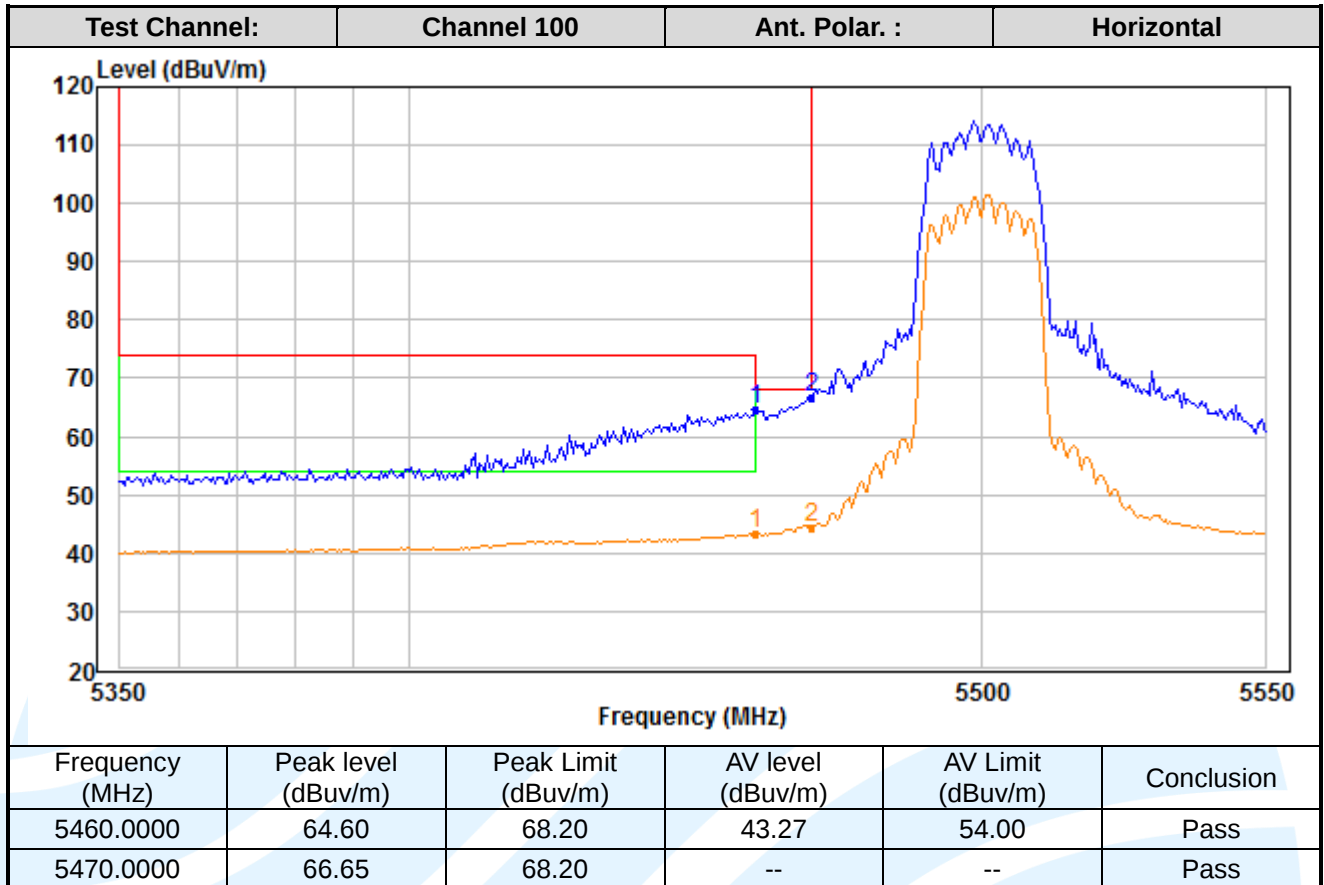
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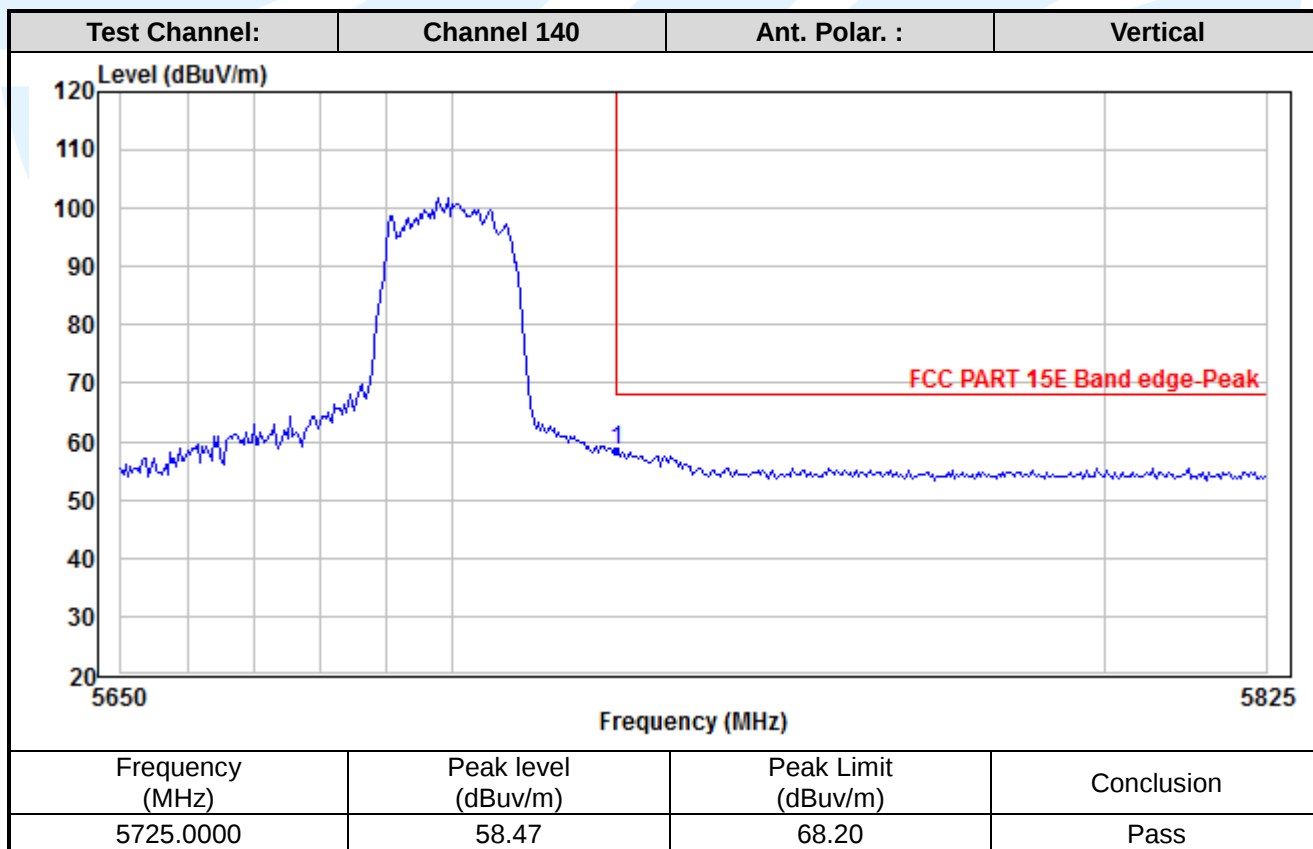
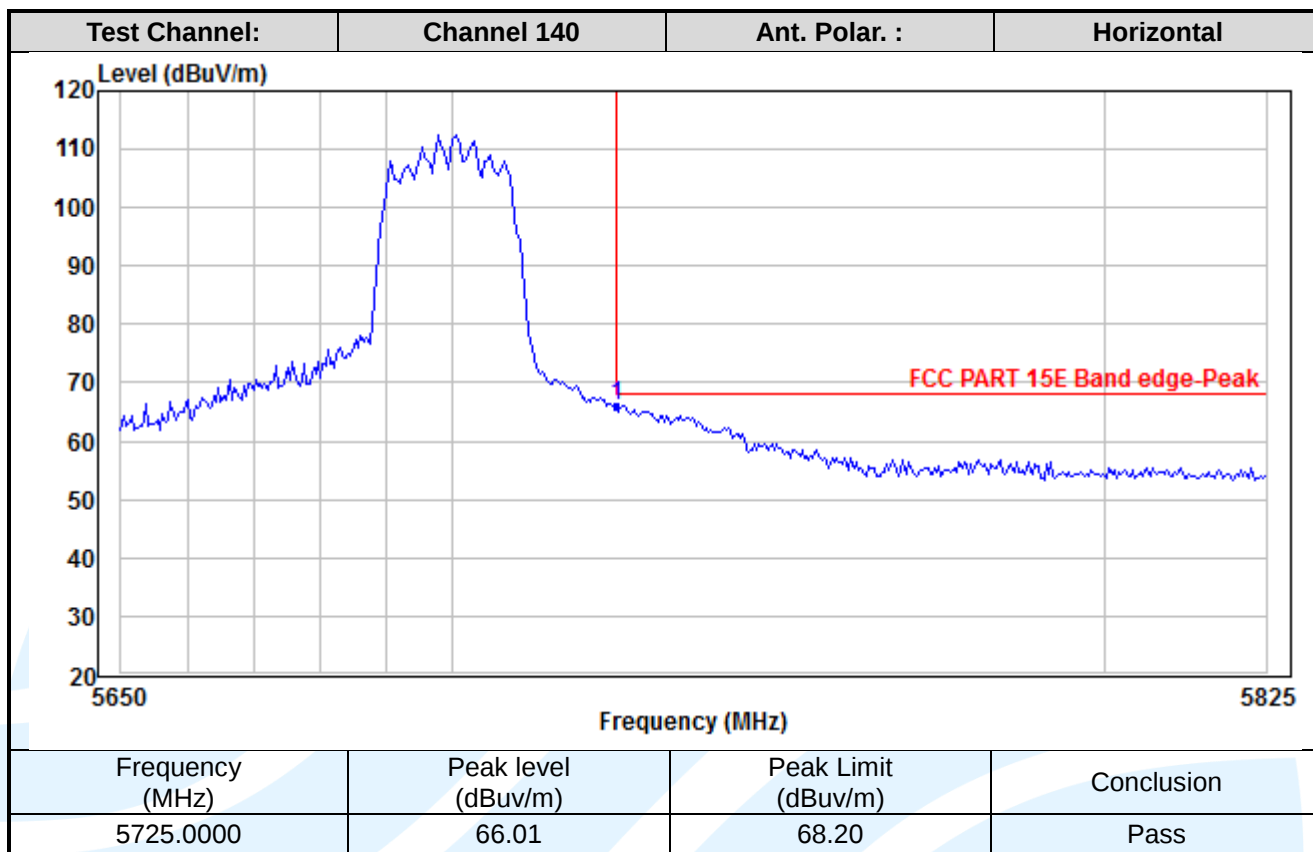
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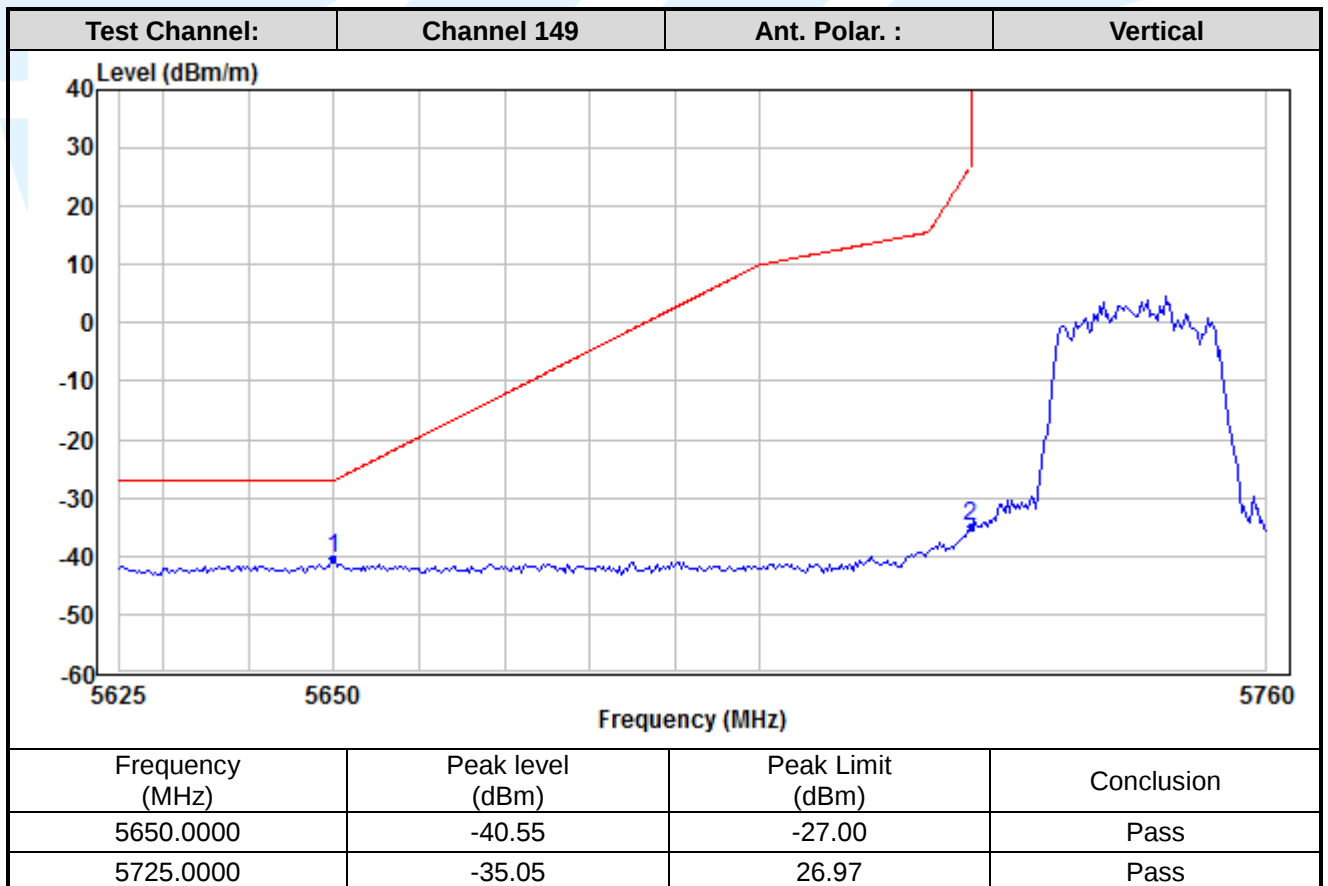
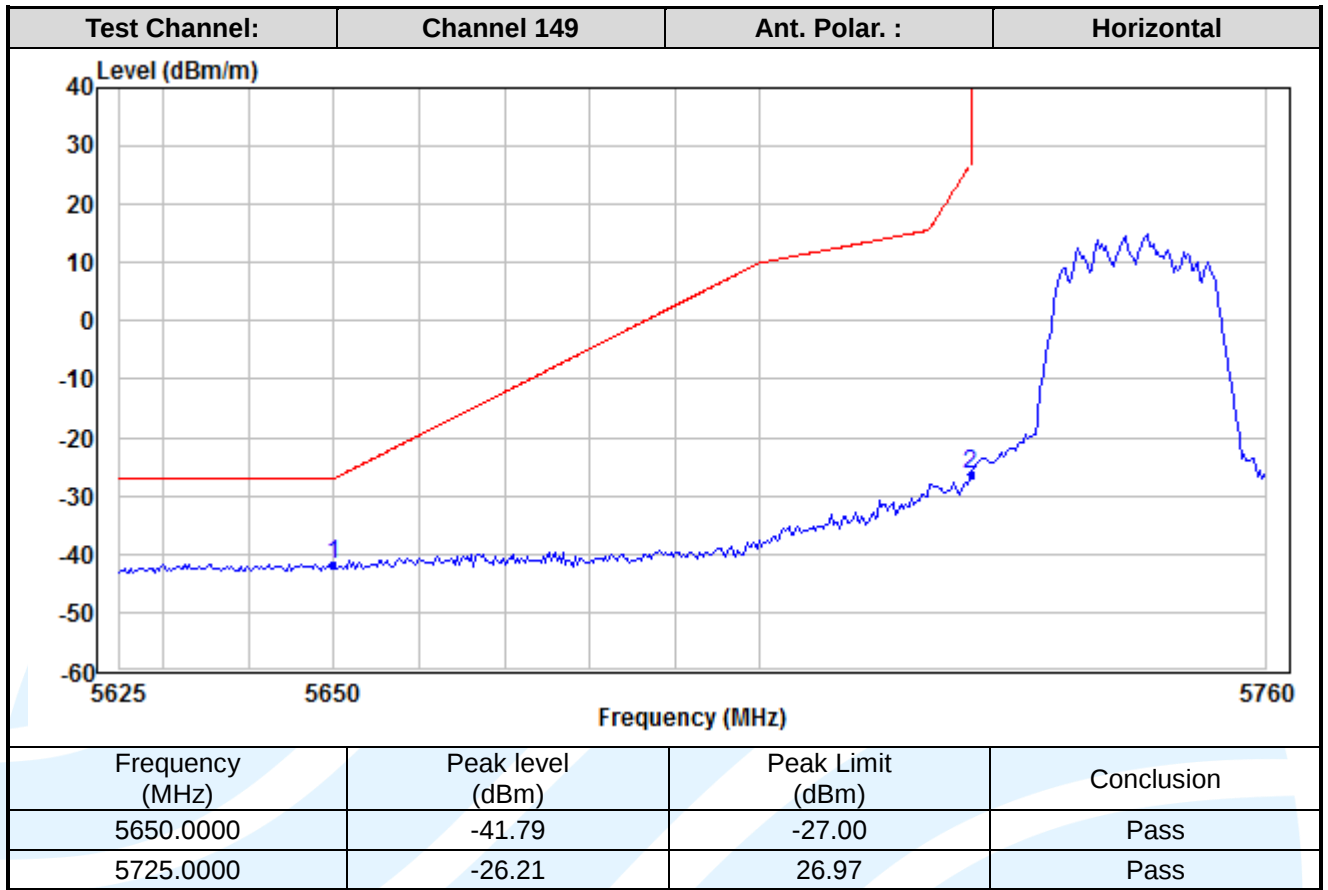
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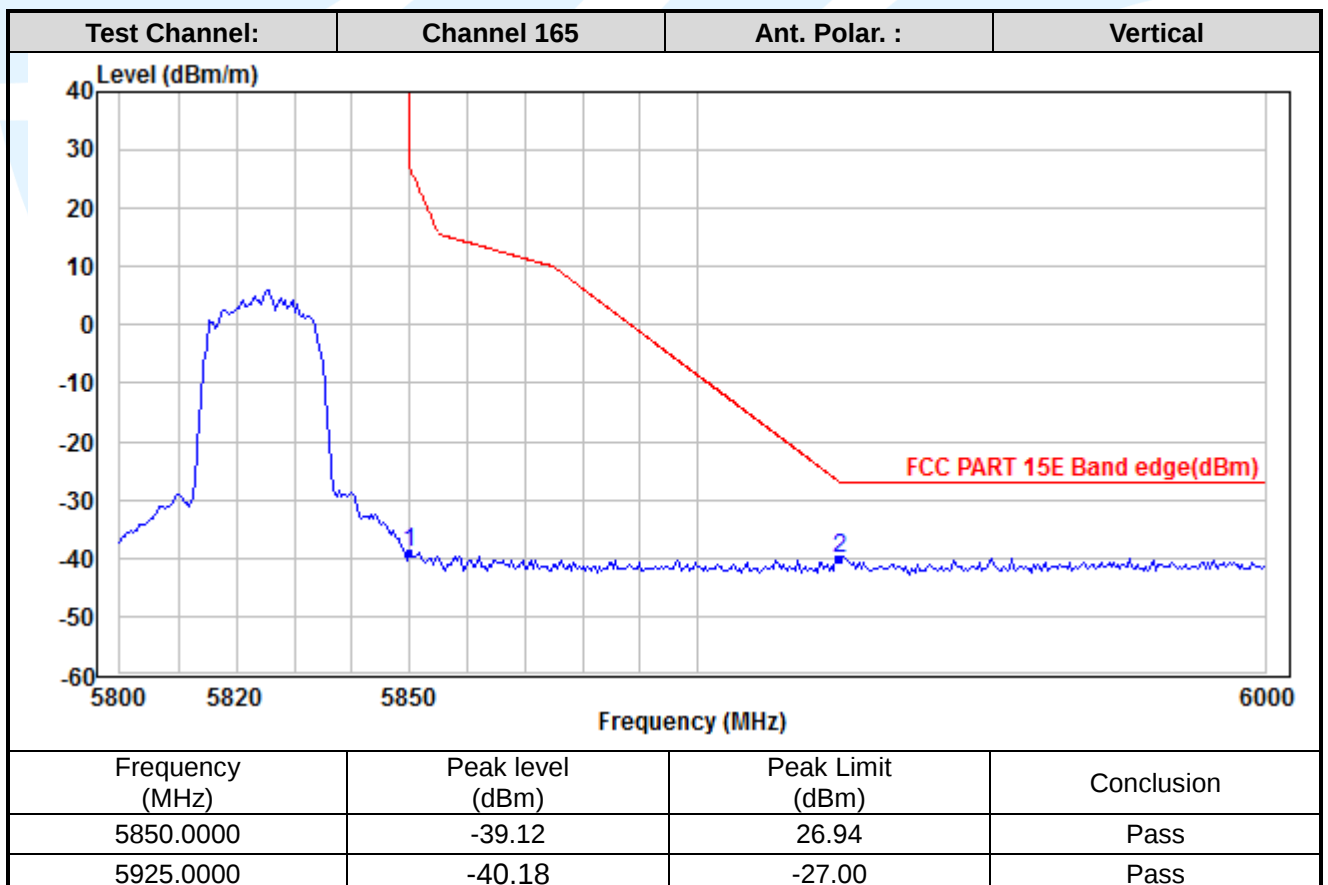
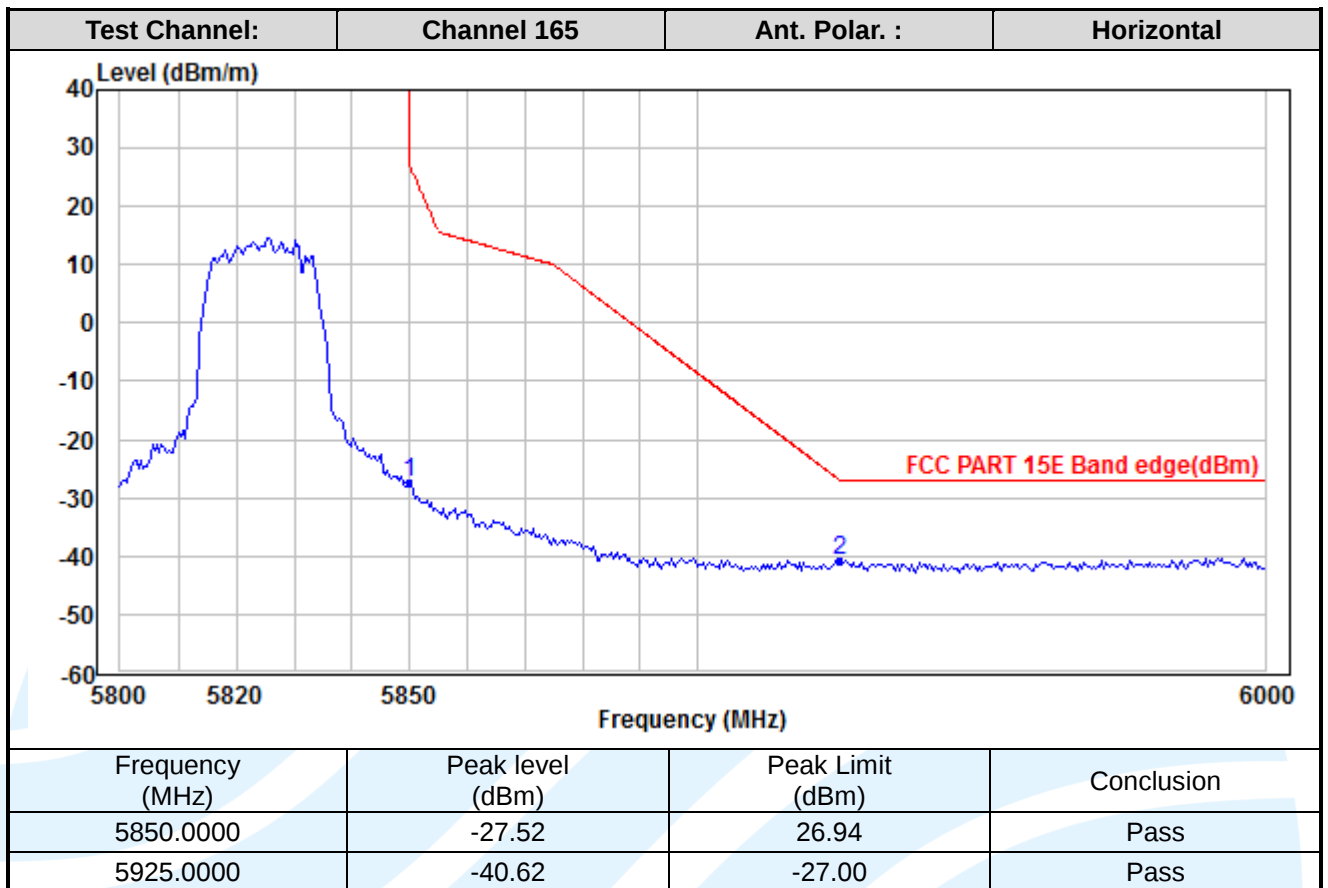
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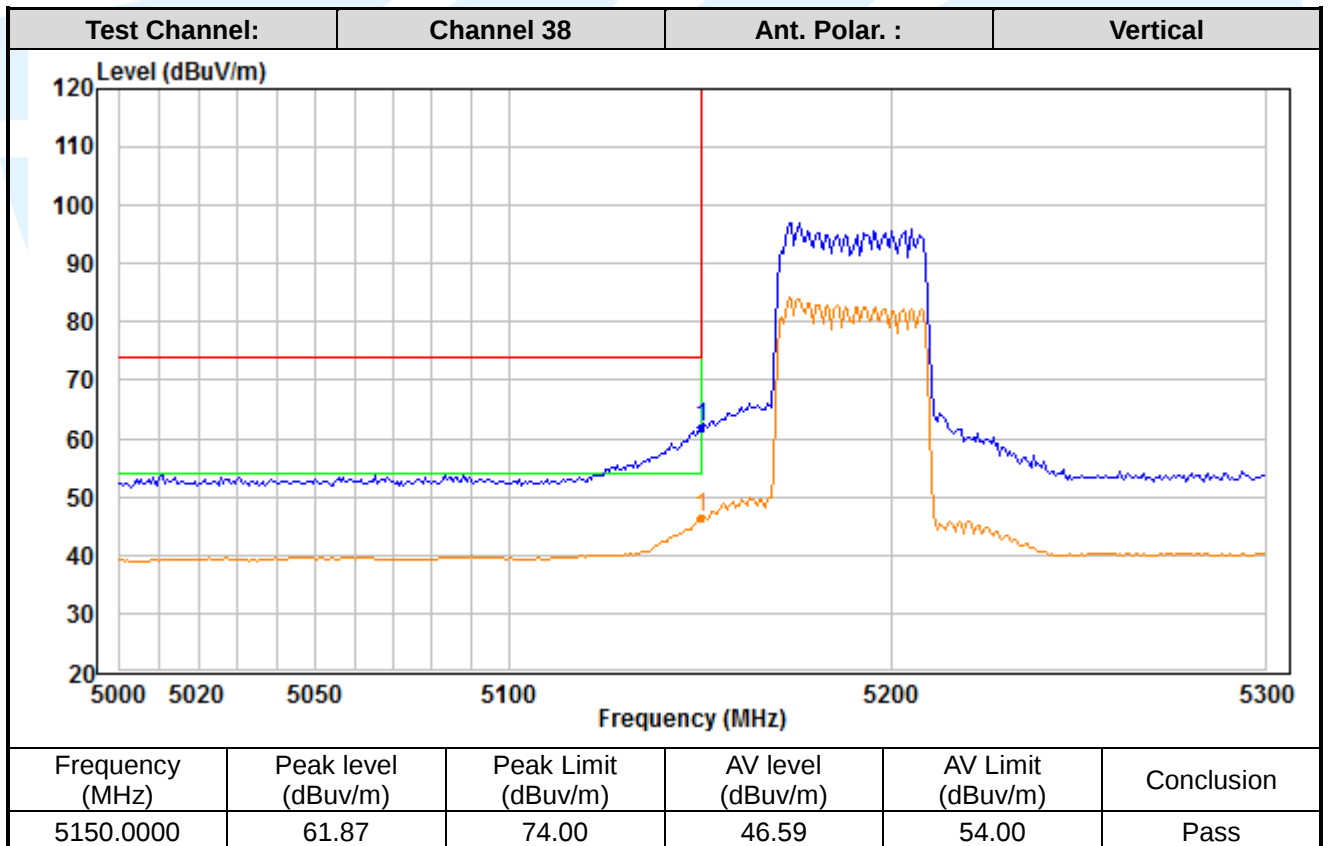
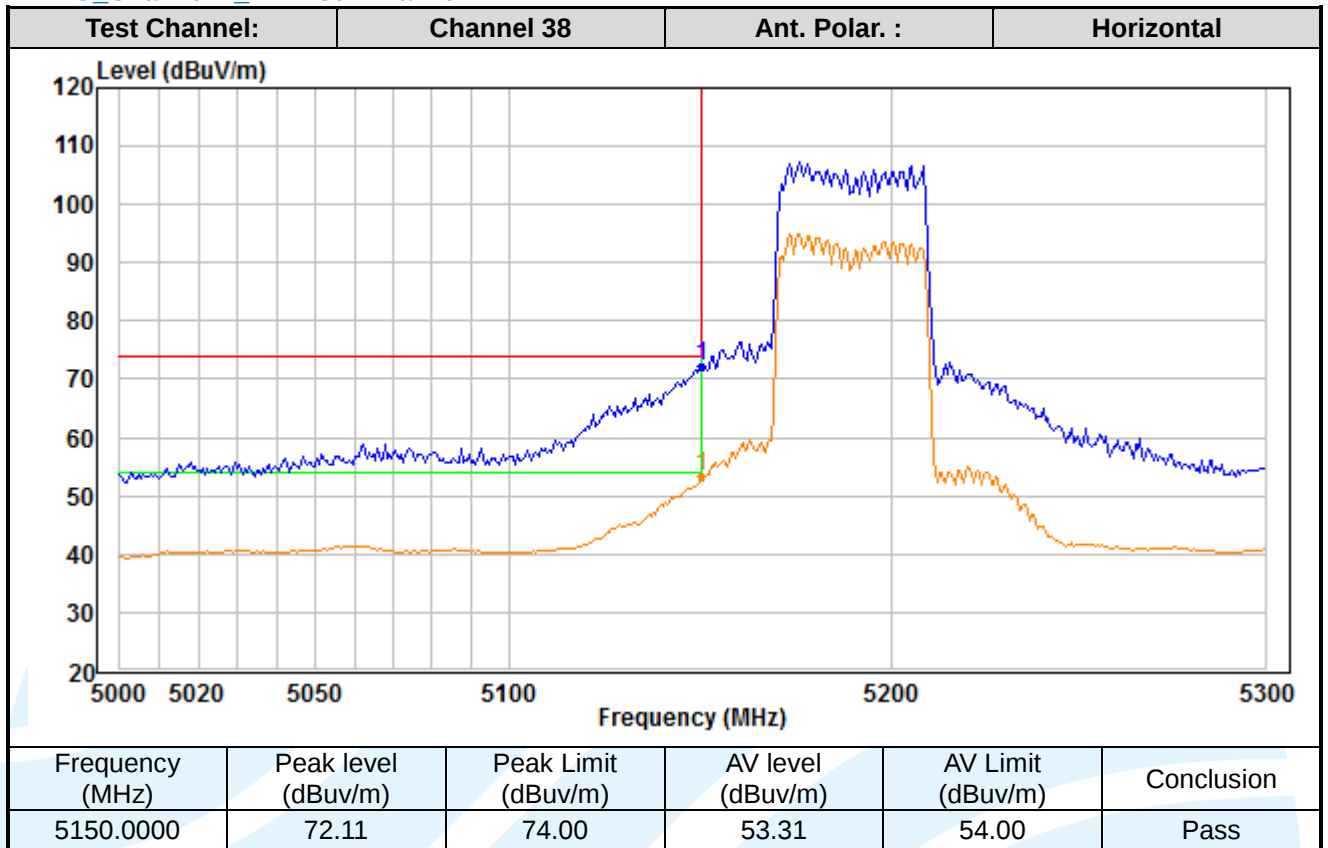
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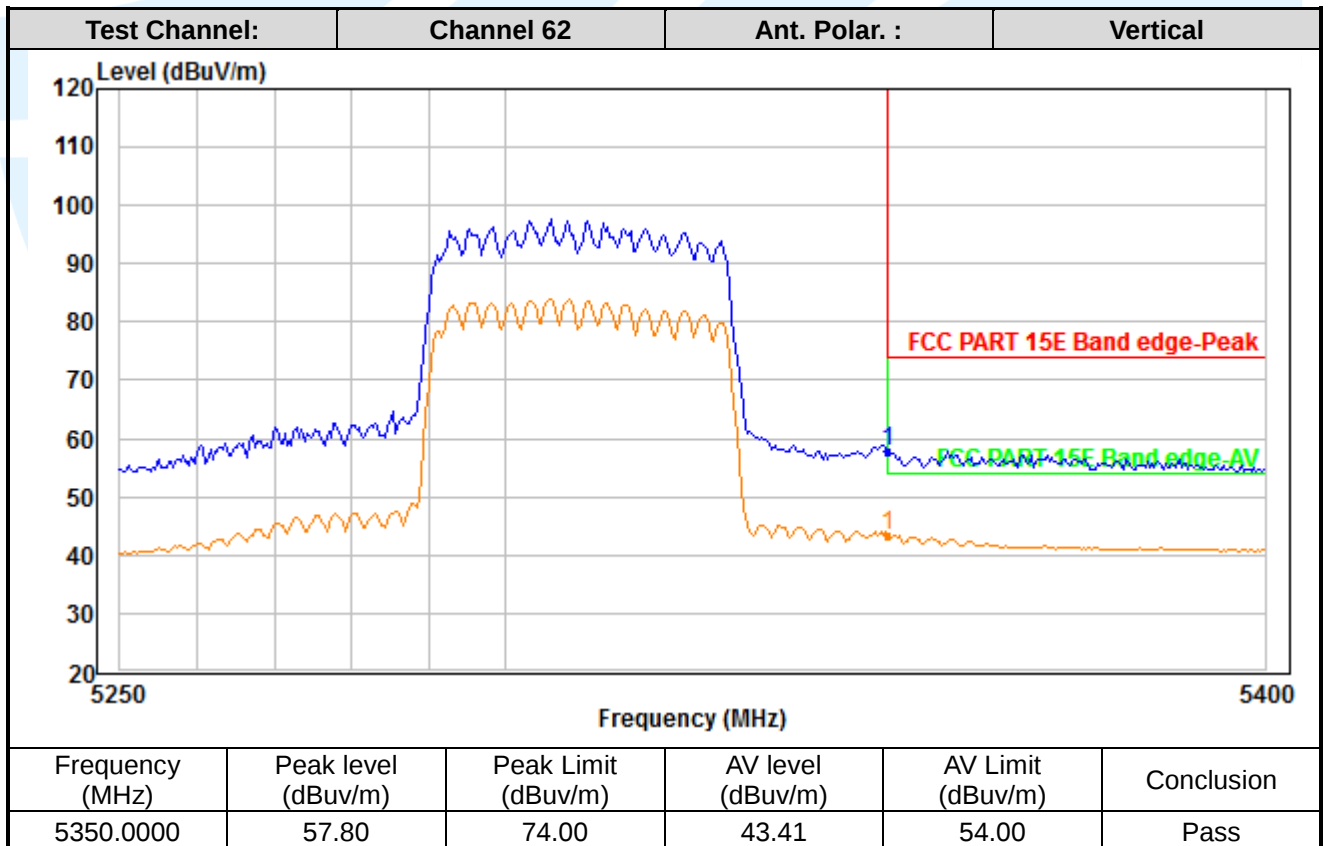
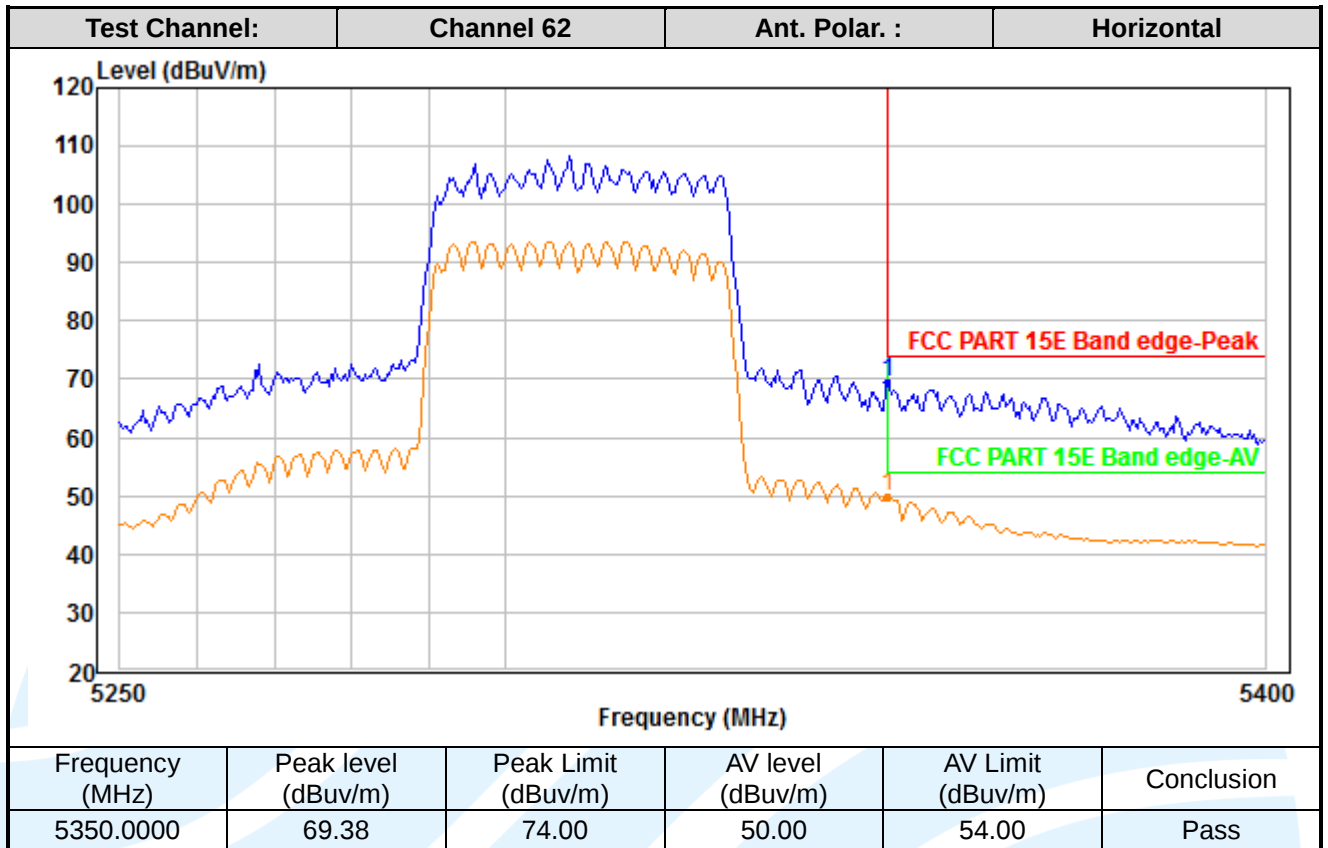
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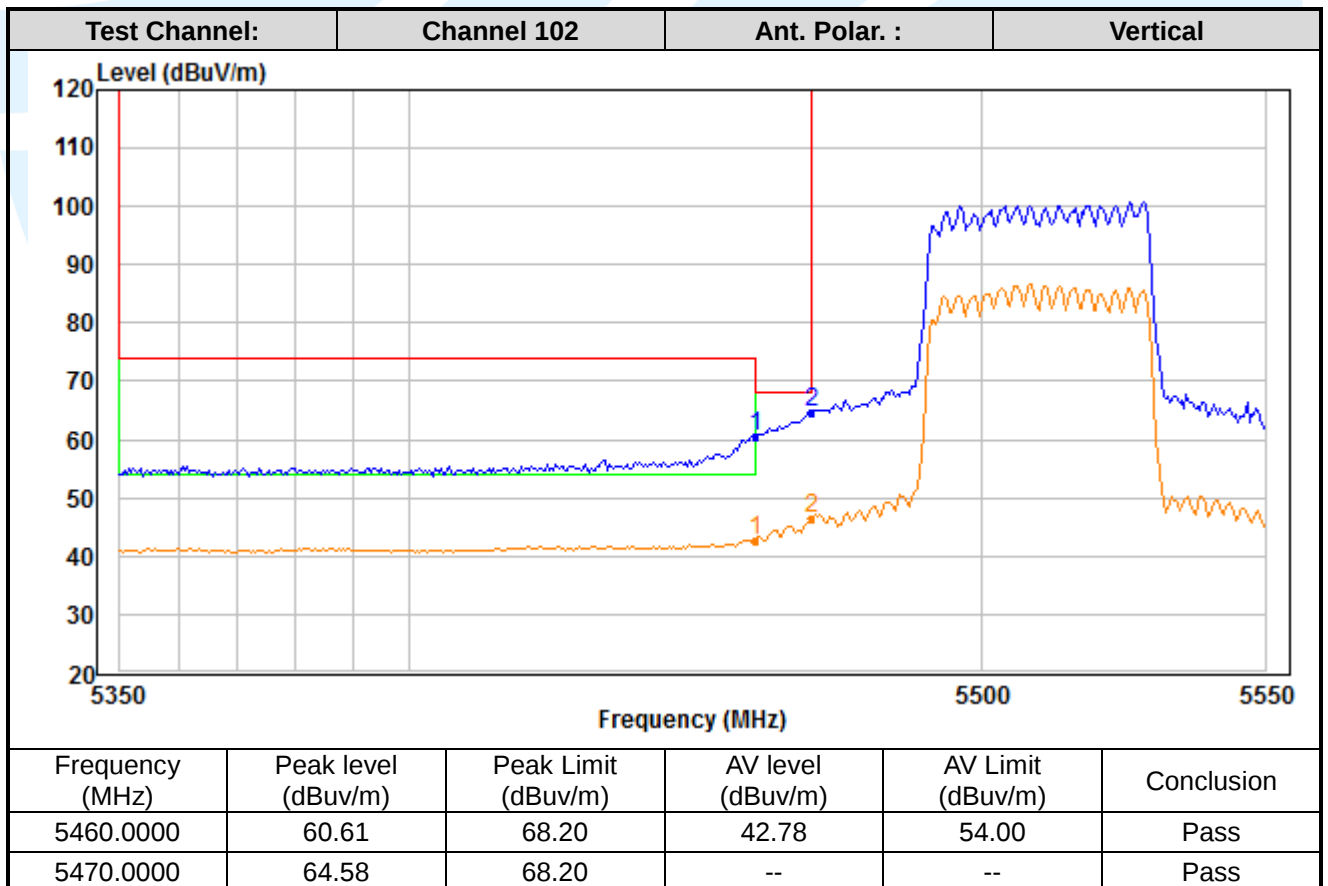
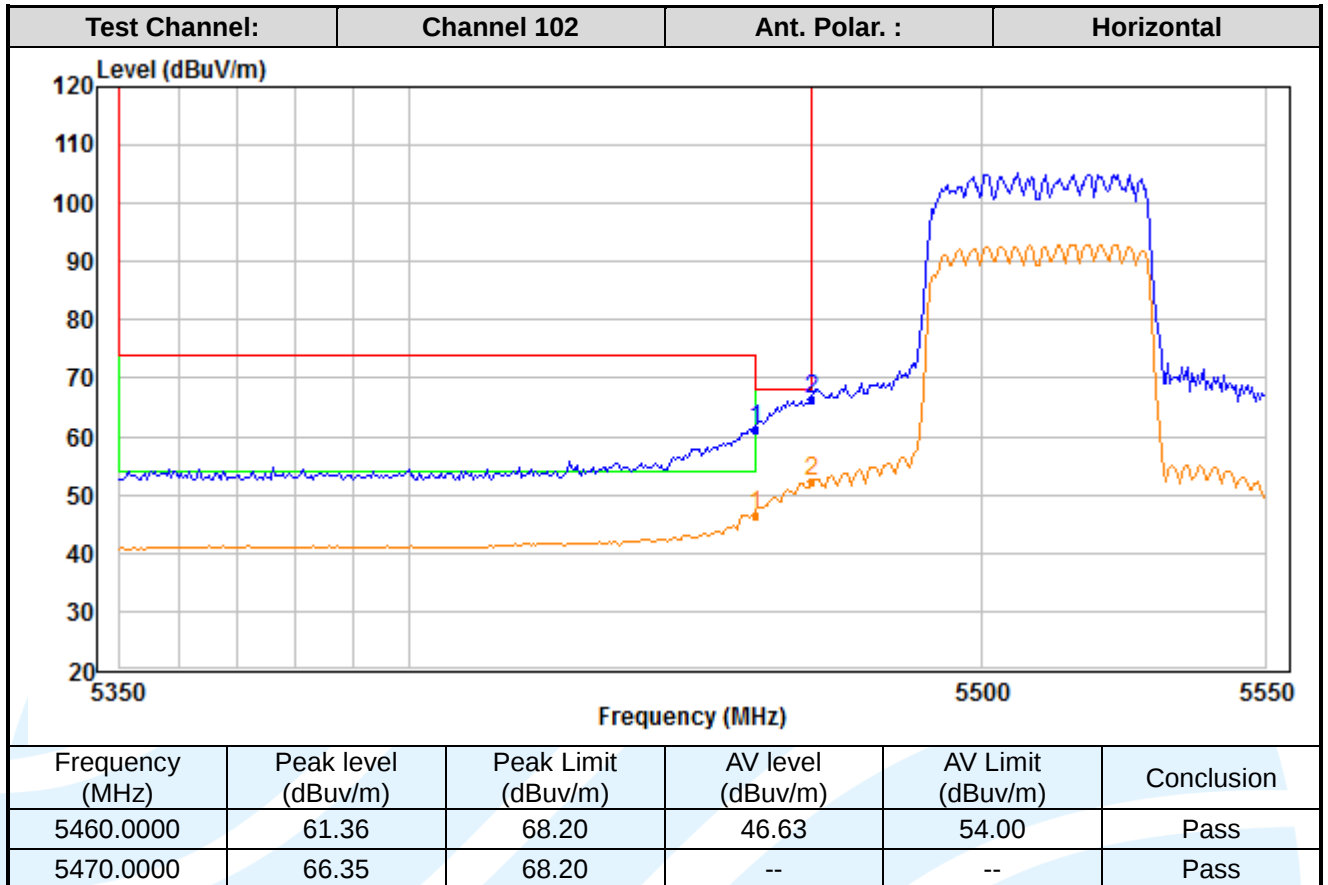
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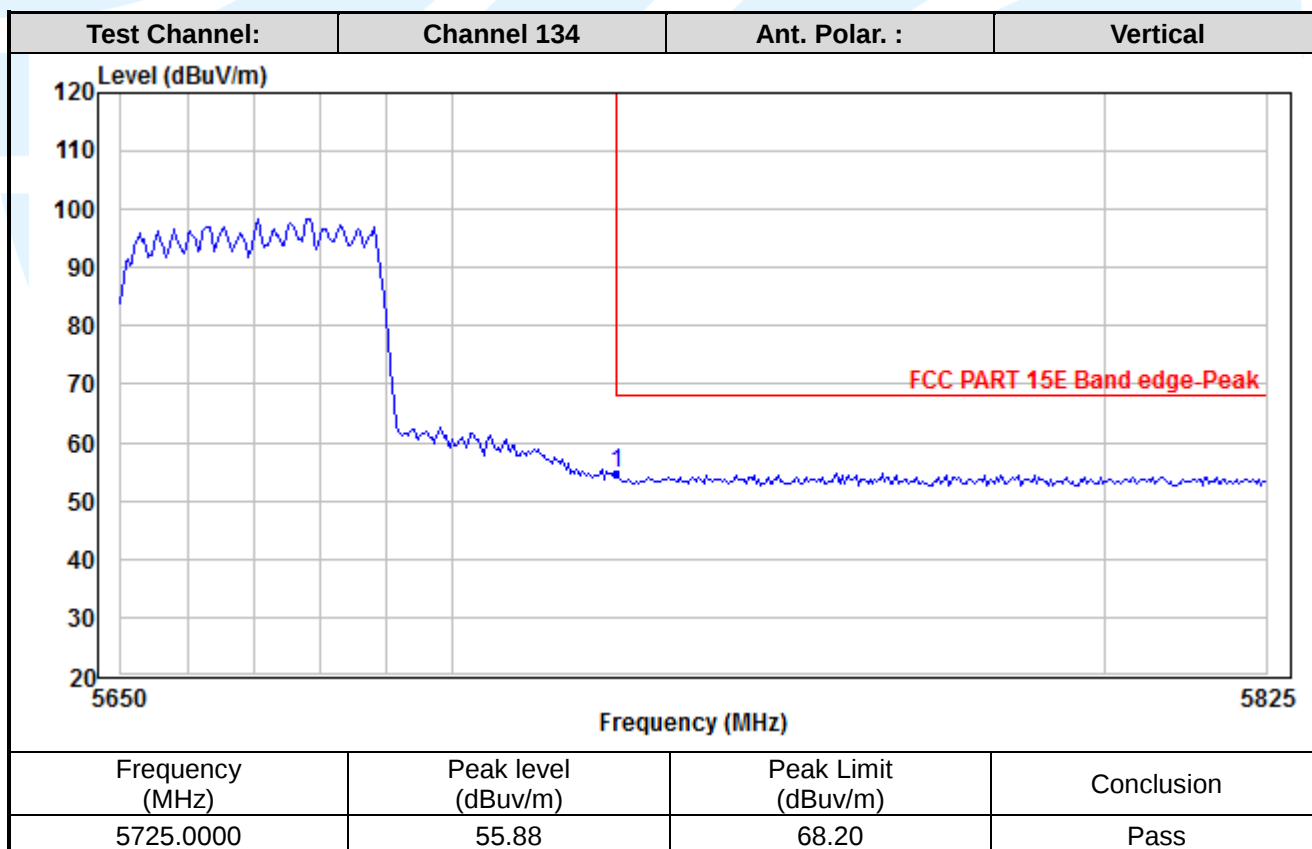
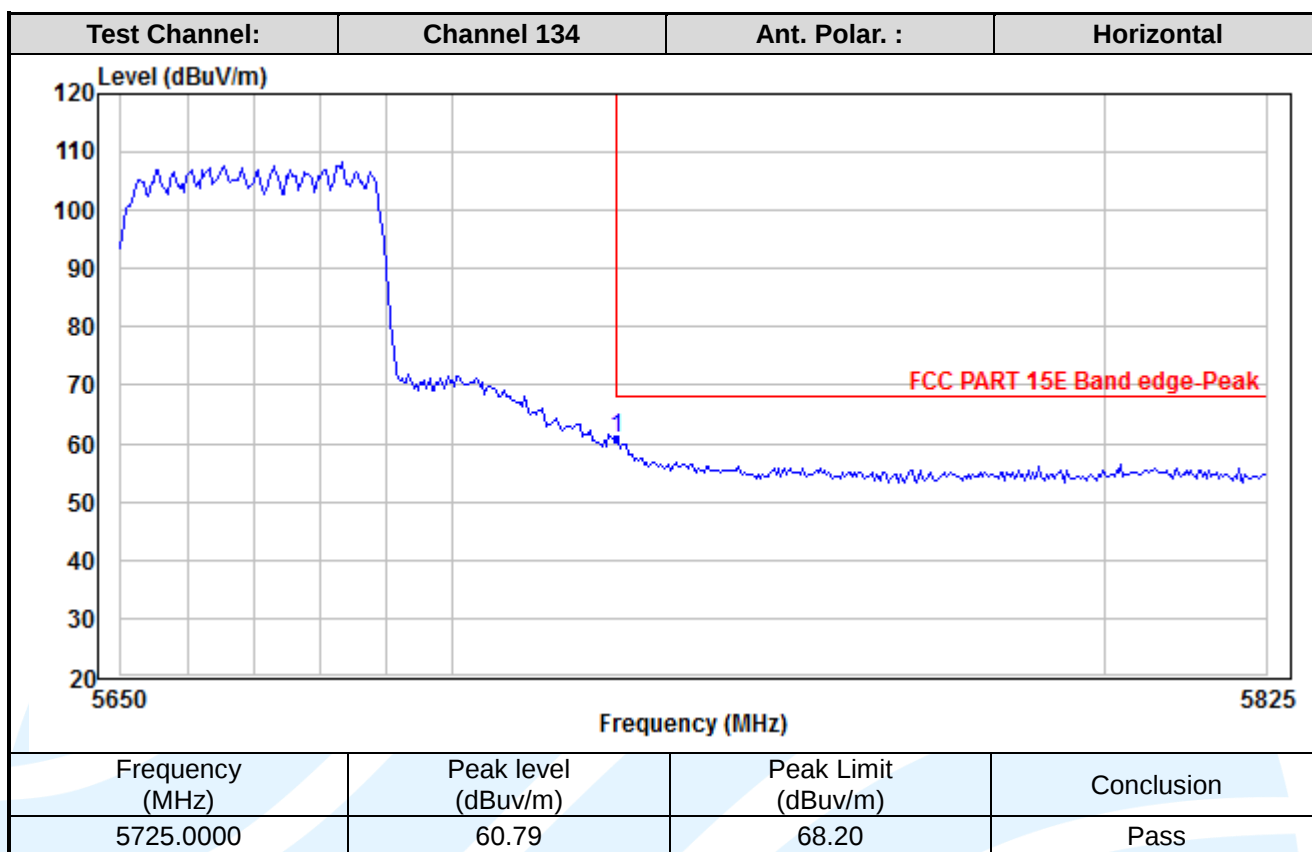
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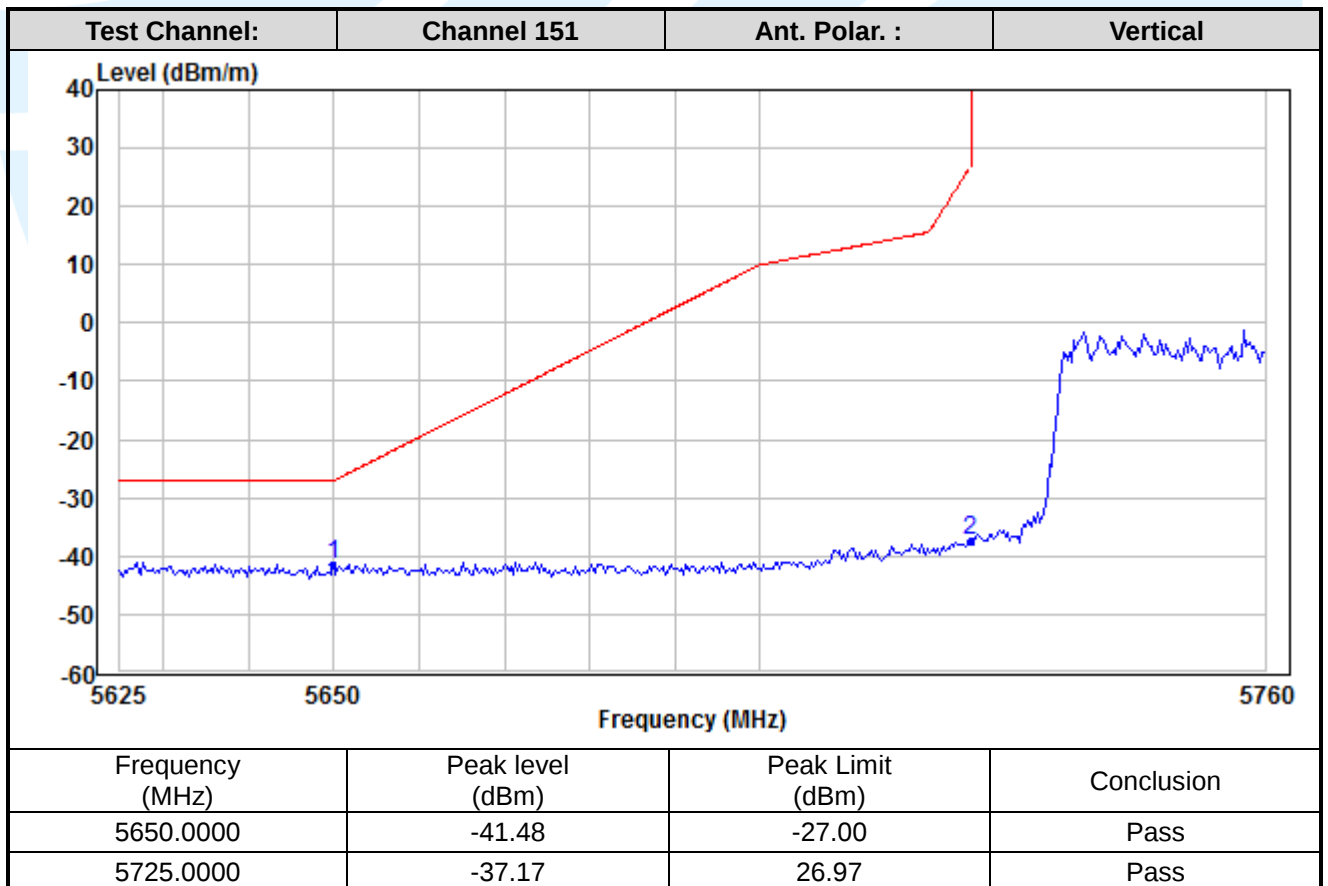
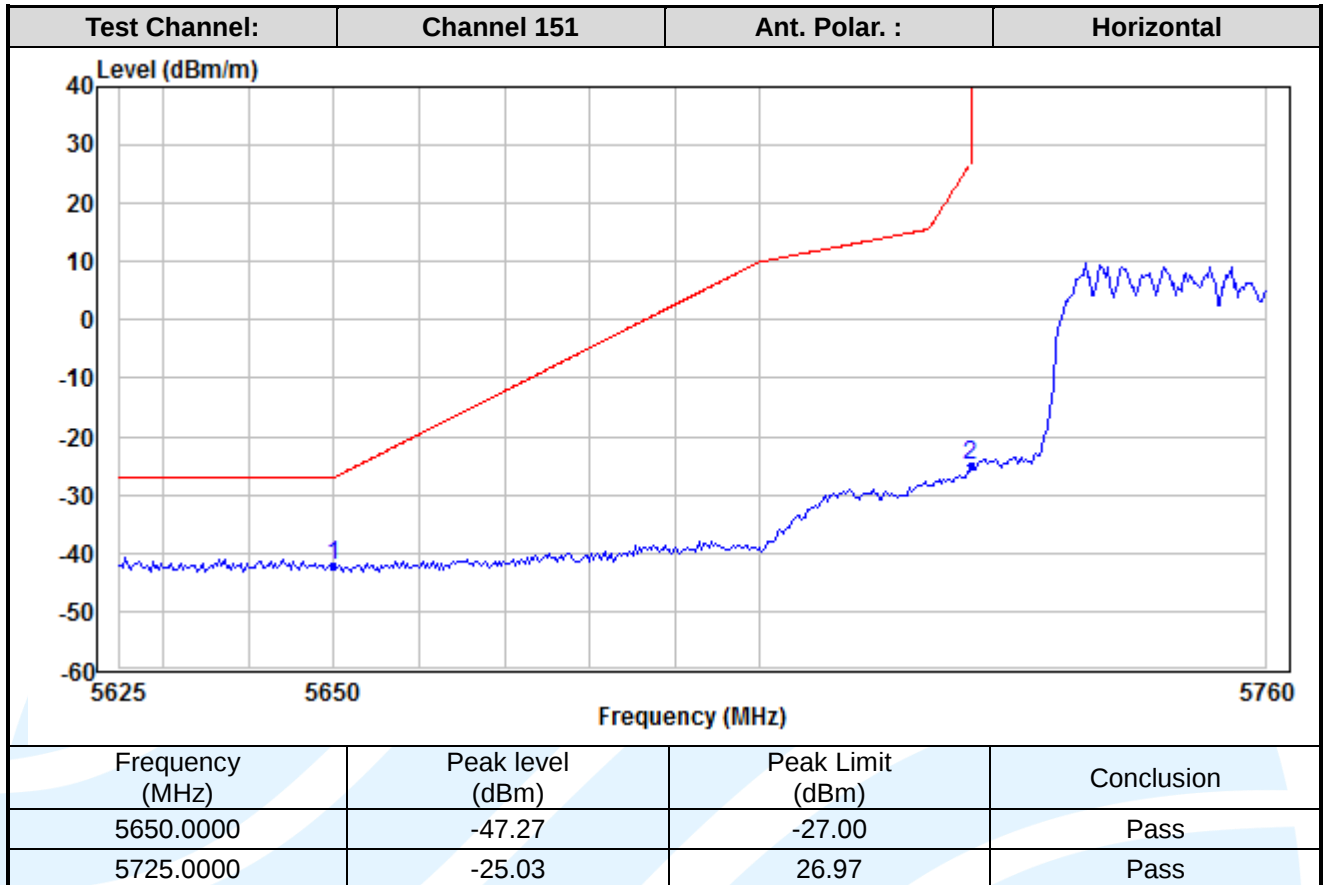
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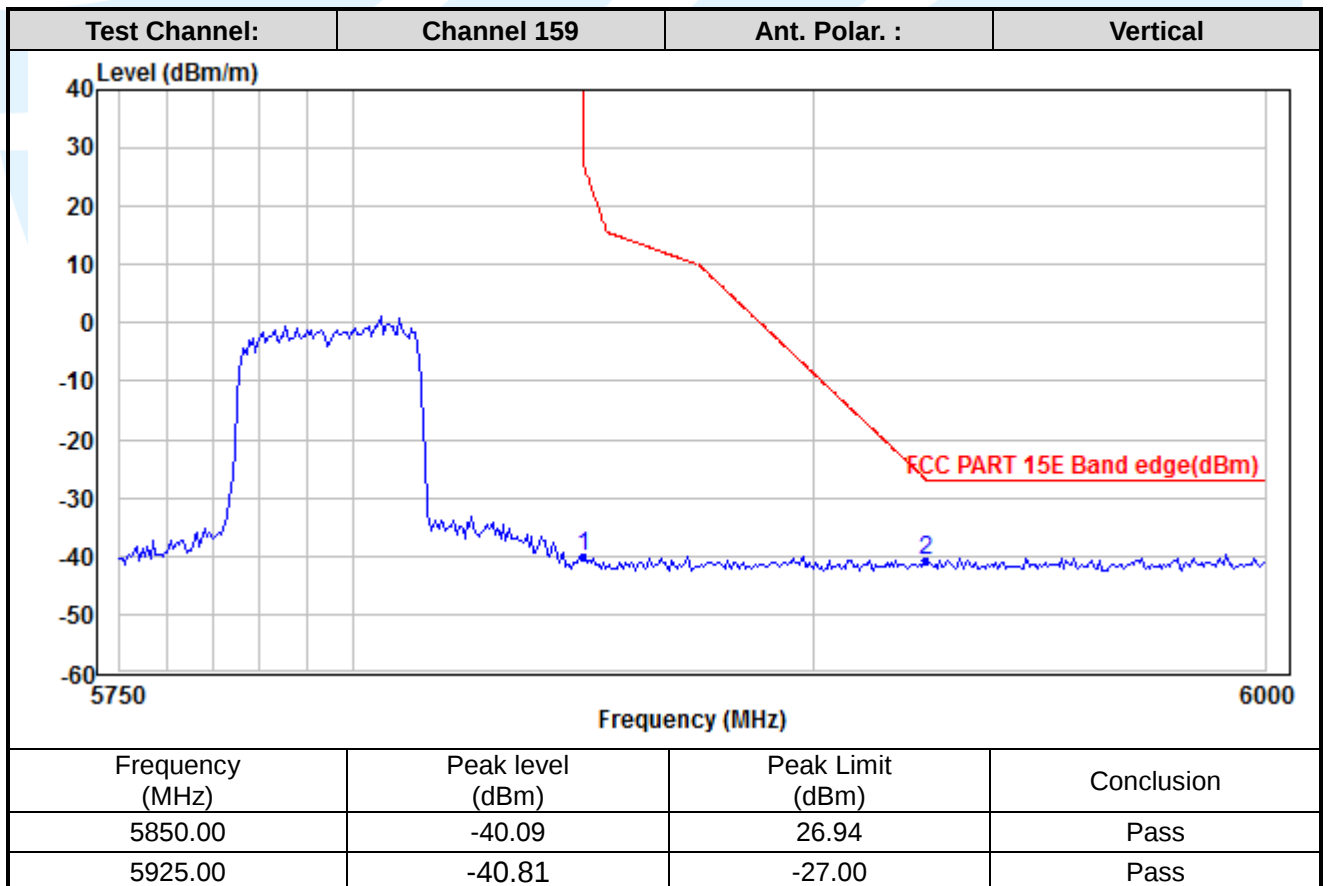
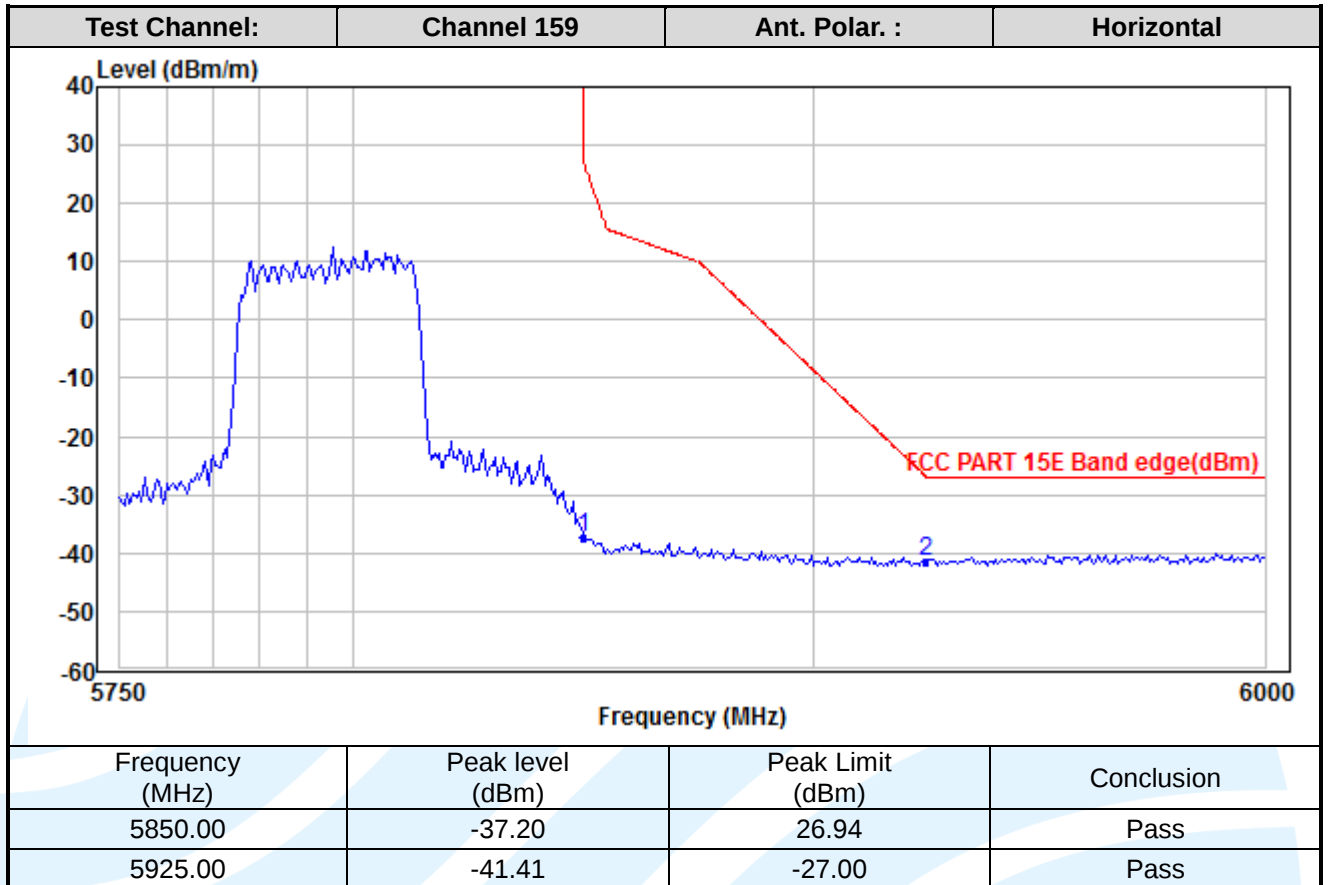
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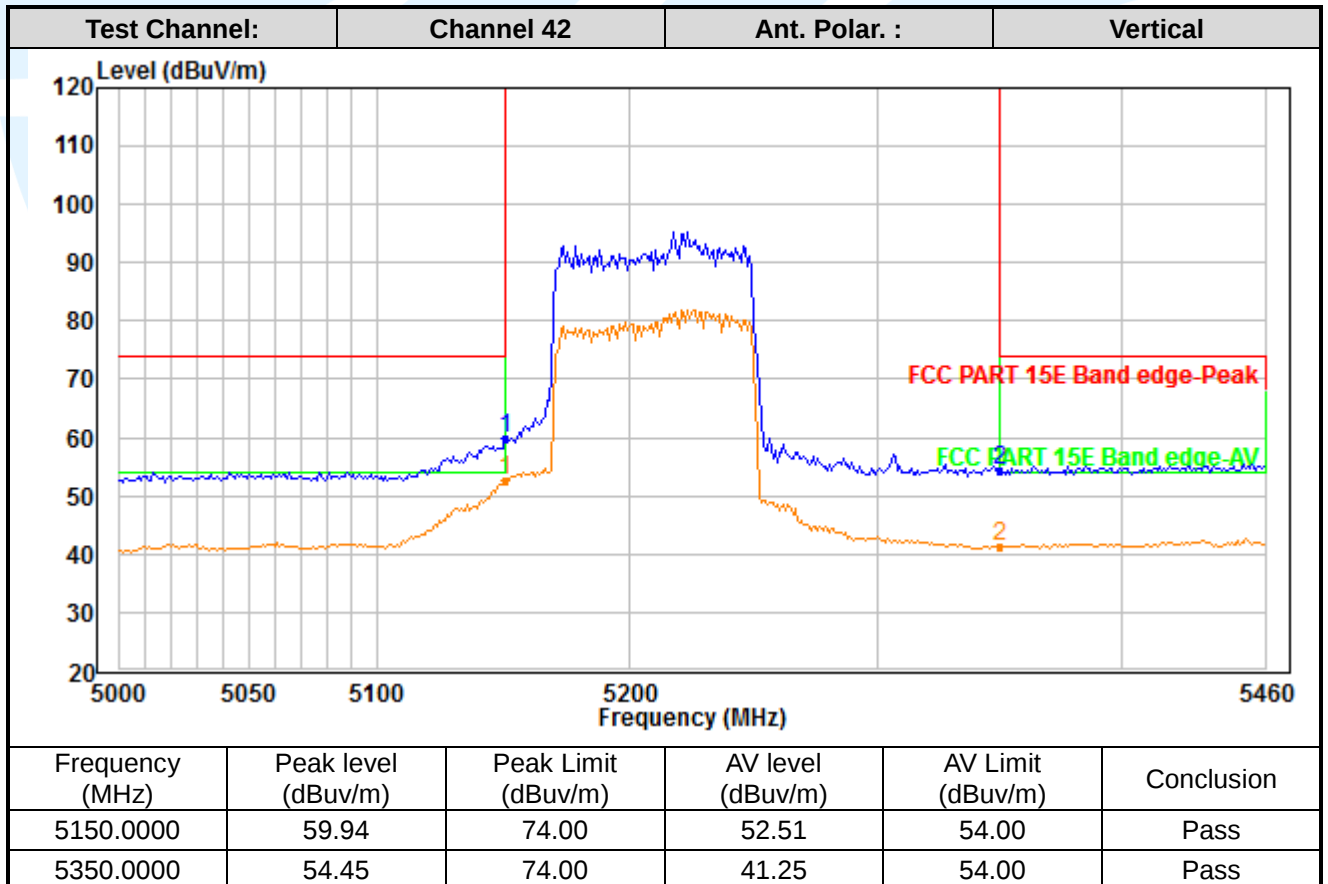
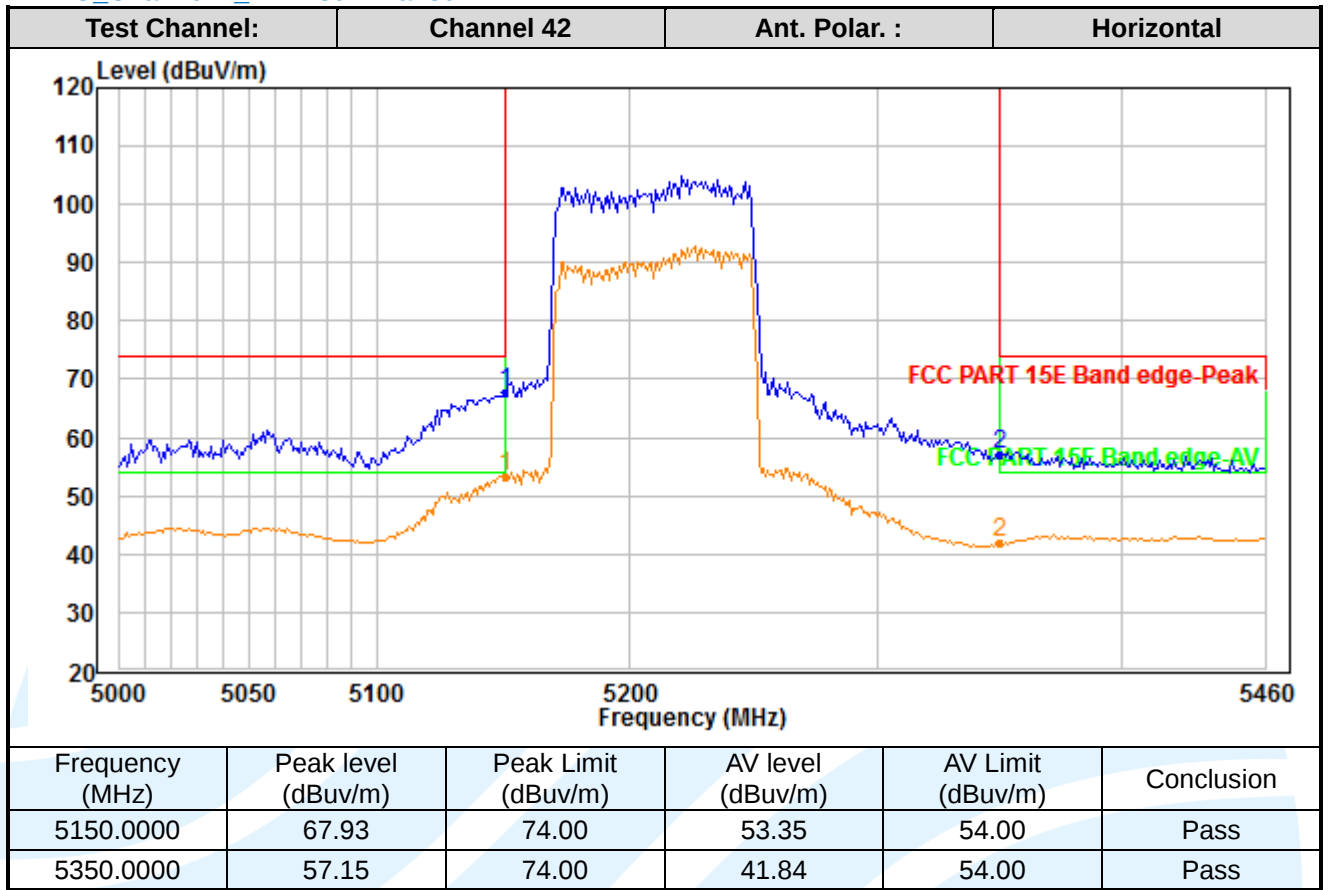
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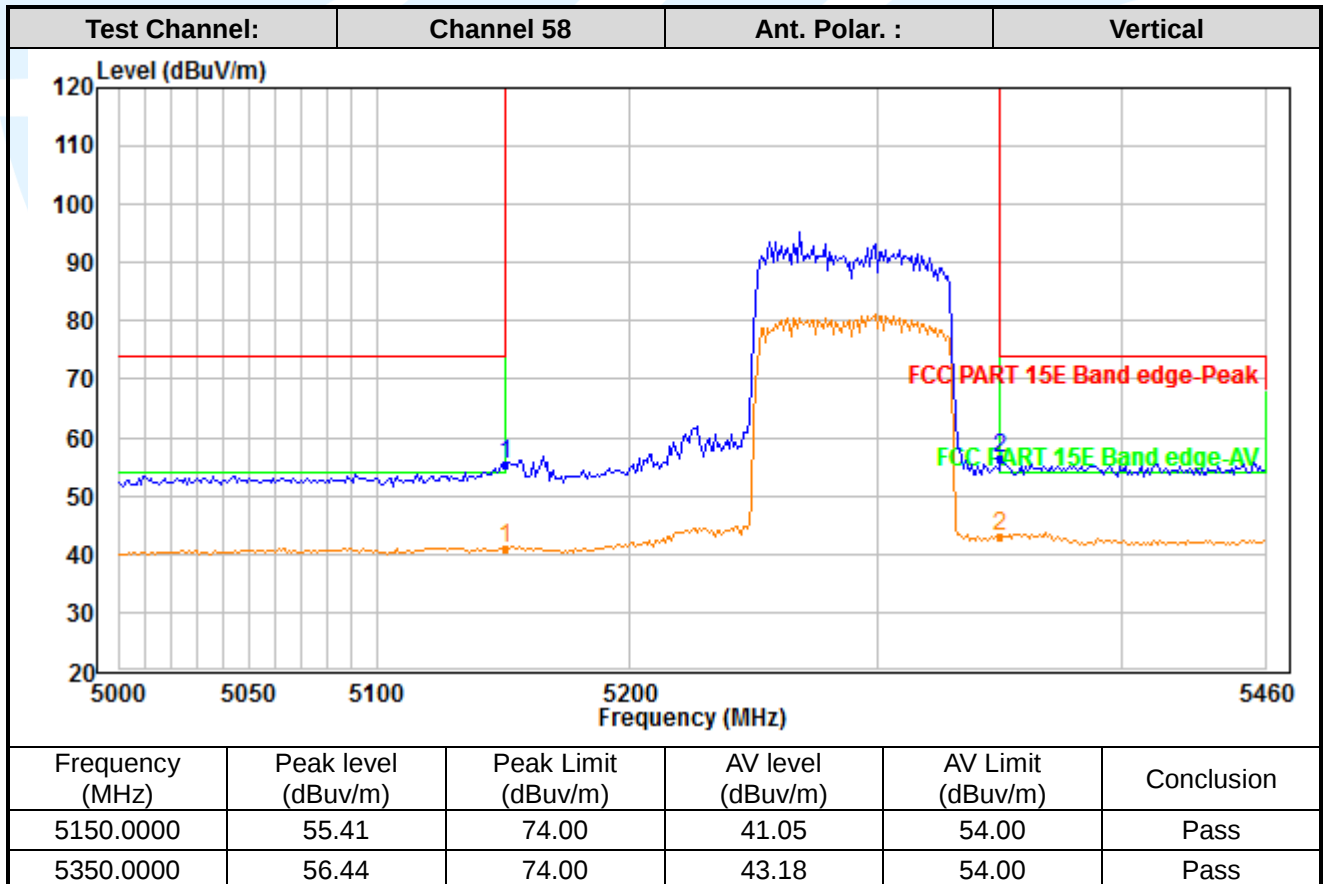
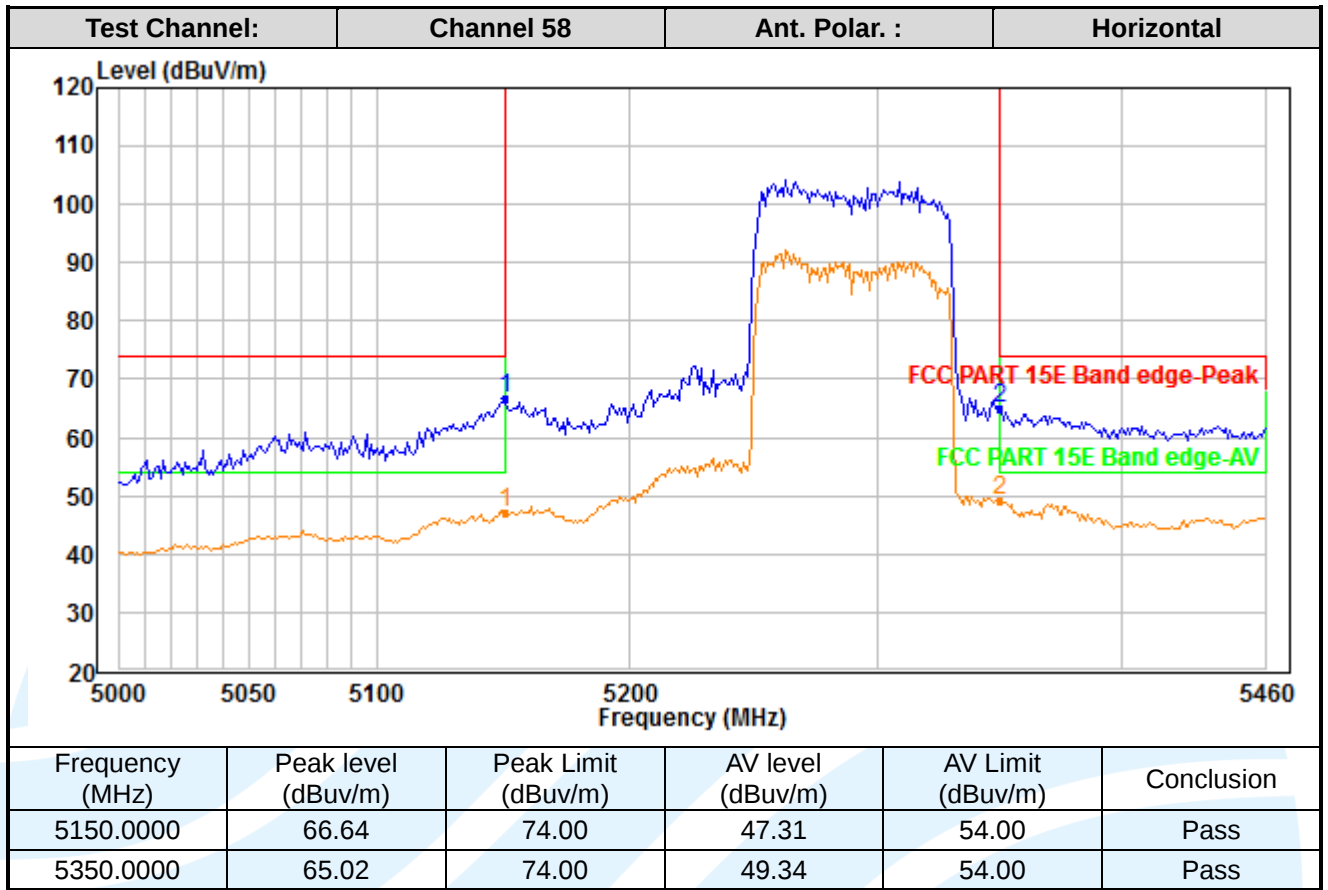
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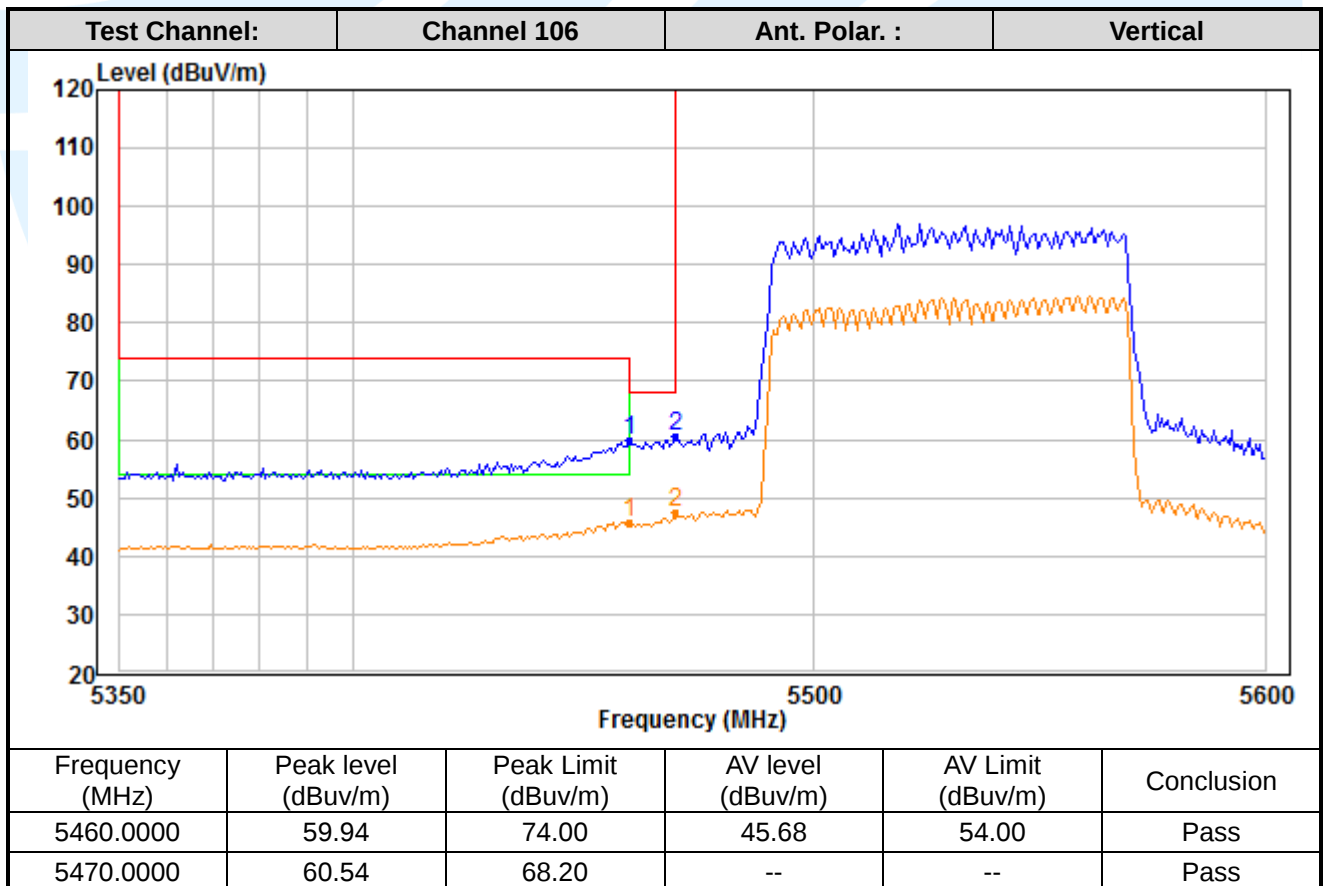
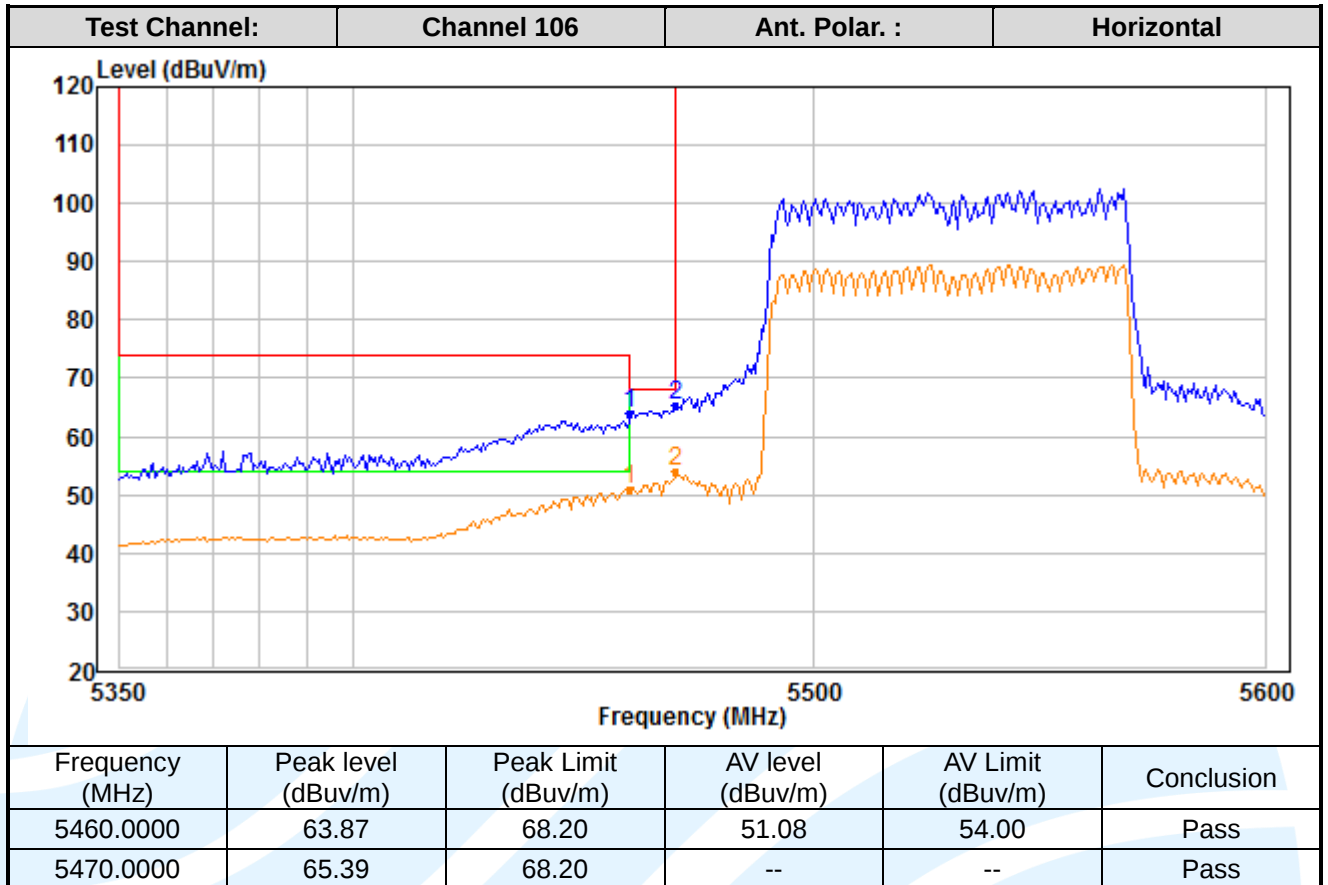
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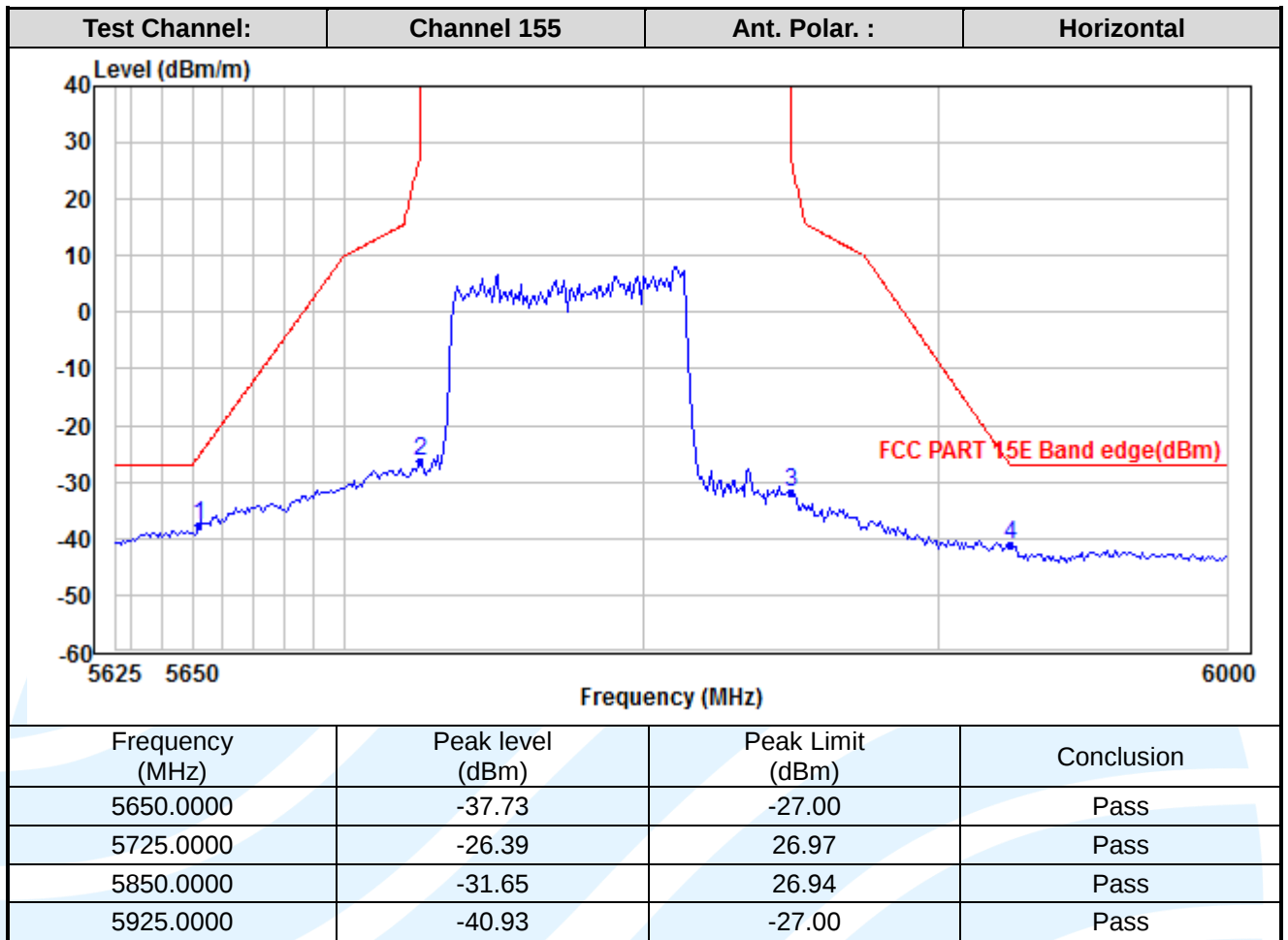
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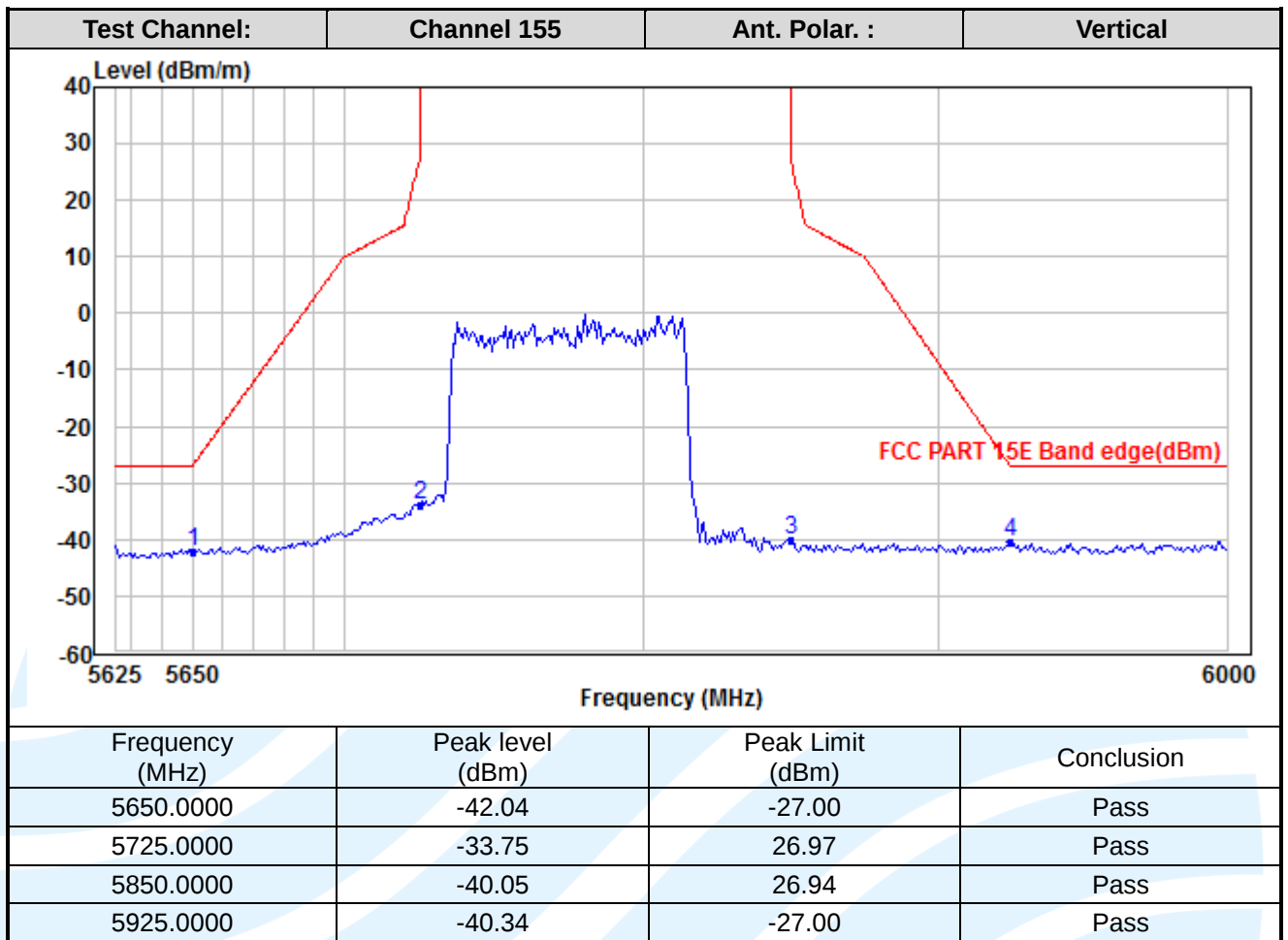
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5.8 DYNAMIC FREQUENCY SELECTION

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (h)
RSS-247 Issue 2 Section 6.3

Test Method: KDB 905462 D03 Client Without DFS New Rules v01r02

EUT Operating Mode:

DFS Operational mode	Operating Frequency Range	
	5250 MHz to 5350 MHz	5470 MHz to 5725 MHz
Slave without radar Interference detection function		

Applicability:

The following table from KDB905462 and the lists of the applicable requirements for the DFS testing.

Applicability of DFS Requirements Prior to Use of a Channel:

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period		Not required	Yes
DFS Detection Threshold		Not required	Yes
Channel Availability Check Time		Not required	Not required
U-NII Detection Bandwidth		Not required	Yes

Applicability of DFS requirements during normal operation:

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection:

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

DFS Radar Signal Parameter Values:

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds (See Note 1.)
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. (See Notes 1 and 2.)
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. (See Note 3.)

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

DFS Radar Signal Parameter:

Radar Type 0 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time

Table 1-Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	See Note 1.	See Note 1.
1	1	Test A Test B	$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a

Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms.

If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

The aggregate is the average of the percentage of successful detections of short pulse radar types

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Table 2-Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Table 3-Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	0.333	300	70%	30

In-Service Monitoring: Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

Limit of In-Service Monitoring:

Reference to DFS Radar Signal Parameter Values.

Test Procedures:

- One frequency will be chosen from the Operating Channels of the EUT within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals are detected, another frequency must be selected within the emission bandwidth where control signals are detected.
- In case the EUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will associate with the EUT (Master). For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.
- The TCP protocol unicast data stream was generated by the iperf software command line with at least 17% activity ratio over any 100ms period.
- Timing plots are reported with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time).
- At time T_0 the Radar Waveform generator sends a Burst of pulses for one of the Short Pulse Radar Types 1-4 at DFS Detection Threshold levels on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
- Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Measure and record the Channel Move Time and Channel Closing Transmission Time if radar detection occurs.
- When operating as a Master Device, monitor the EUT for more than 30 minutes following instant T_2 to verify that the EUT does not resume any transmissions on this Channel. Perform this test once and record the measurement result.

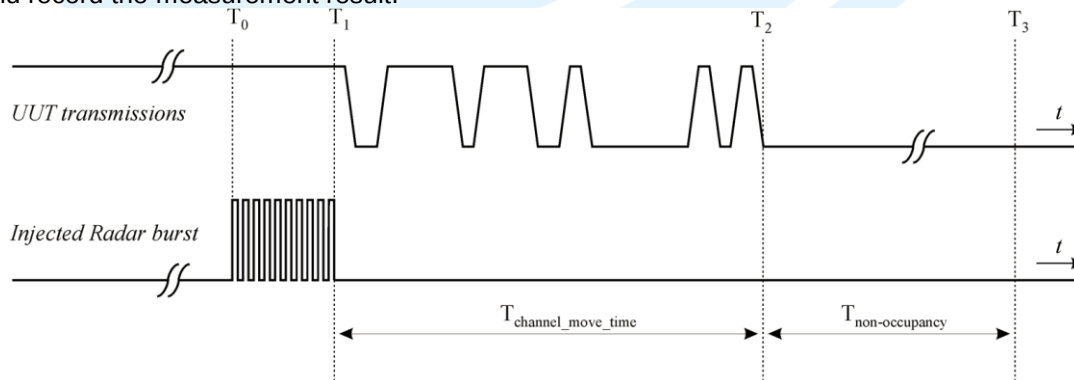
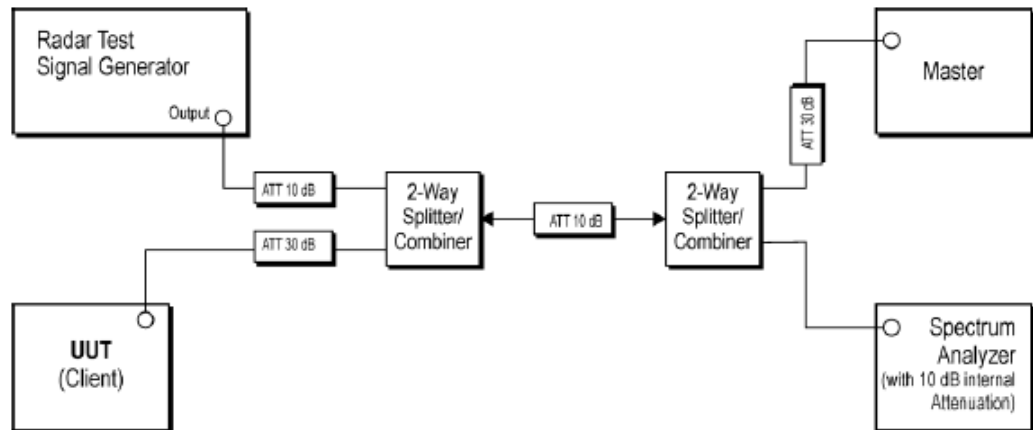


Figure 17: Channel Closing Transmission Time, Channel Move Time and Non-Occupancy Period

Conducted test setup



Setup for Client with injection at the Master

Equipment Used: Refer to section 3 for details.

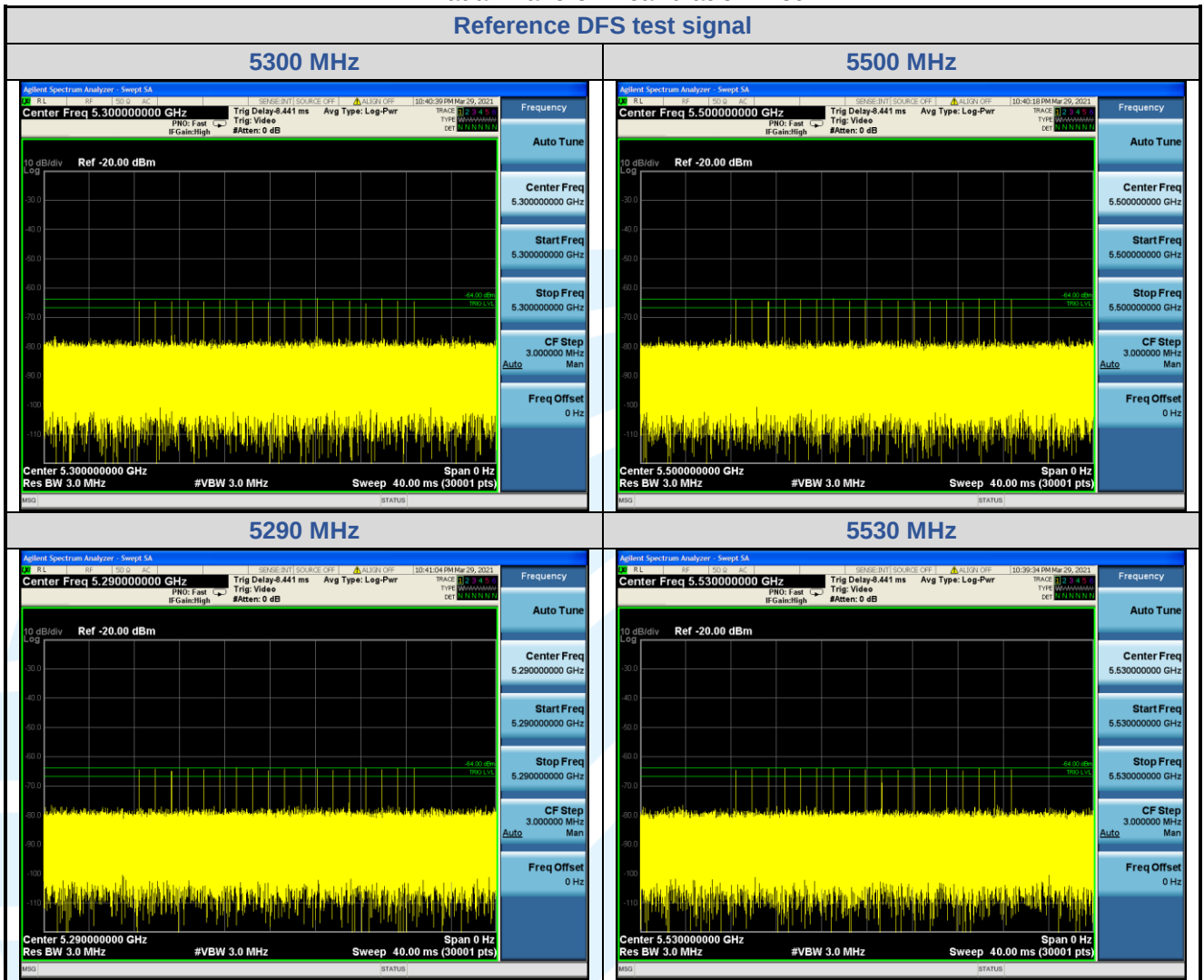
Test Result: Result of Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period for Client Beacon Test

The measurement data as follows:

BW / Channel	Test Item	Test Result	Limit	Pass/Fail
20 MHz / 5300 MHz	Channel Move Time	0.732s	< 10s	Pass
	Channel Closing Transmission Time	10.8 ms	< 200+60ms	Pass
	Non-Occupancy Period	No transmission	30 minutes	Pass
20 MHz / 5500 MHz	Channel Move Time	0.725s	< 10s	Pass
	Channel Closing Transmission Time	9.6 ms	< 200+60ms	Pass
	Non-Occupancy Period	No transmission	30 minutes	Pass
80 MHz / 5290 MHz	Channel Move Time	0.802s	< 10s	Pass
	Channel Closing Transmission Time	15.2 ms	< 200+60ms	Pass
	Non-Occupancy Period	No transmission	30 minutes	Pass
80 MHz / 5530 MHz	Channel Move Time	0.817s	< 10s	Pass
	Channel Closing Transmission Time	13.2 ms	< 200+60ms	Pass
	Non-Occupancy Period	No transmission	30 minutes	Pass

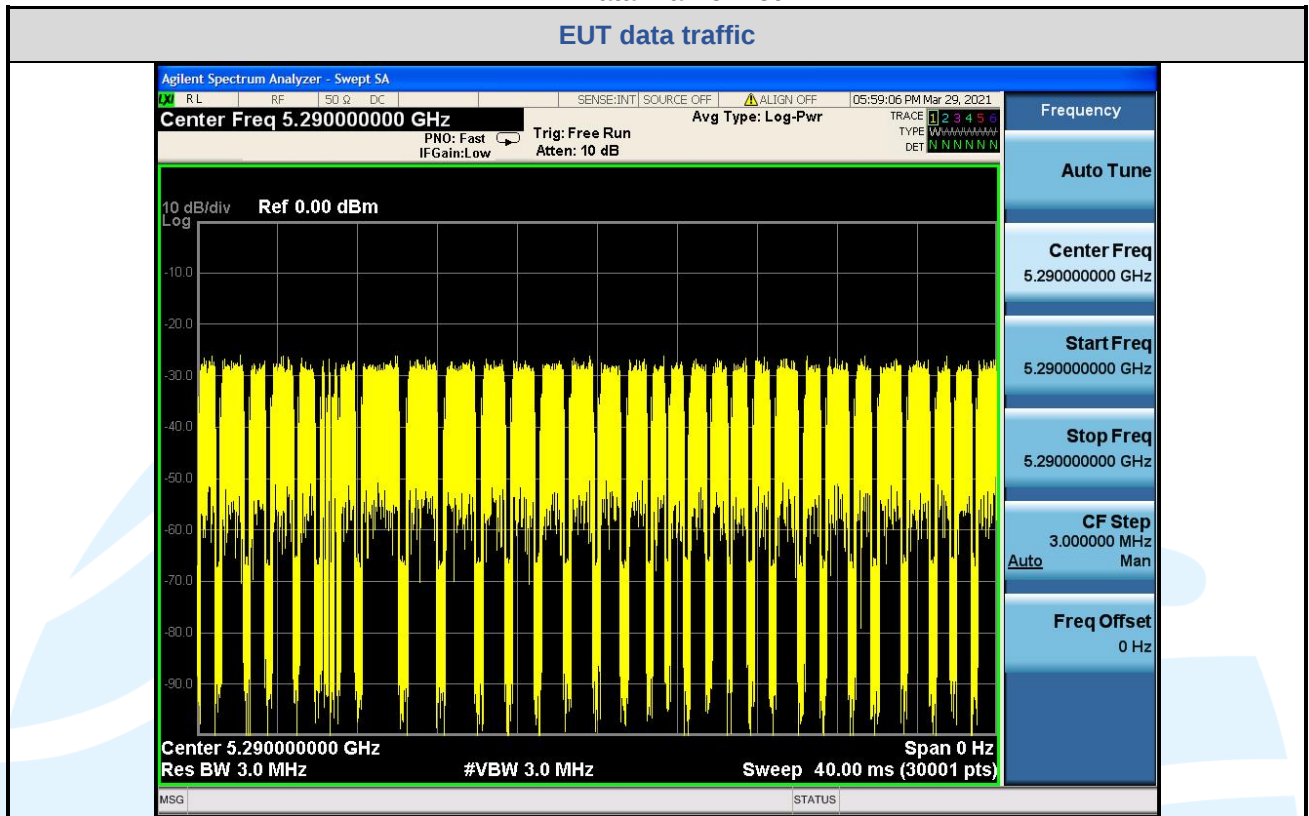
Radars Waveform calibration Plot

Reference DFS test signal

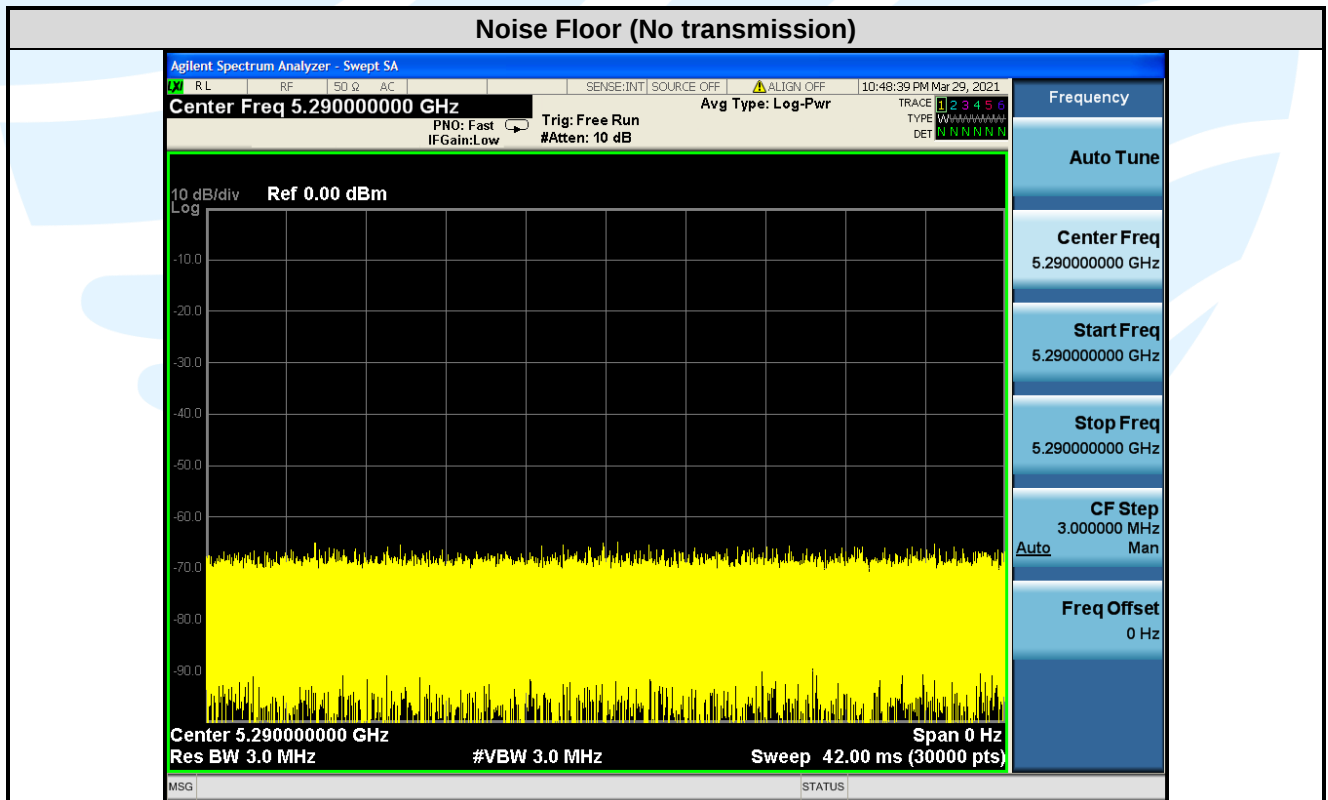


Data Traffic Plot

EUT data traffic



Noise Floor (No transmission)



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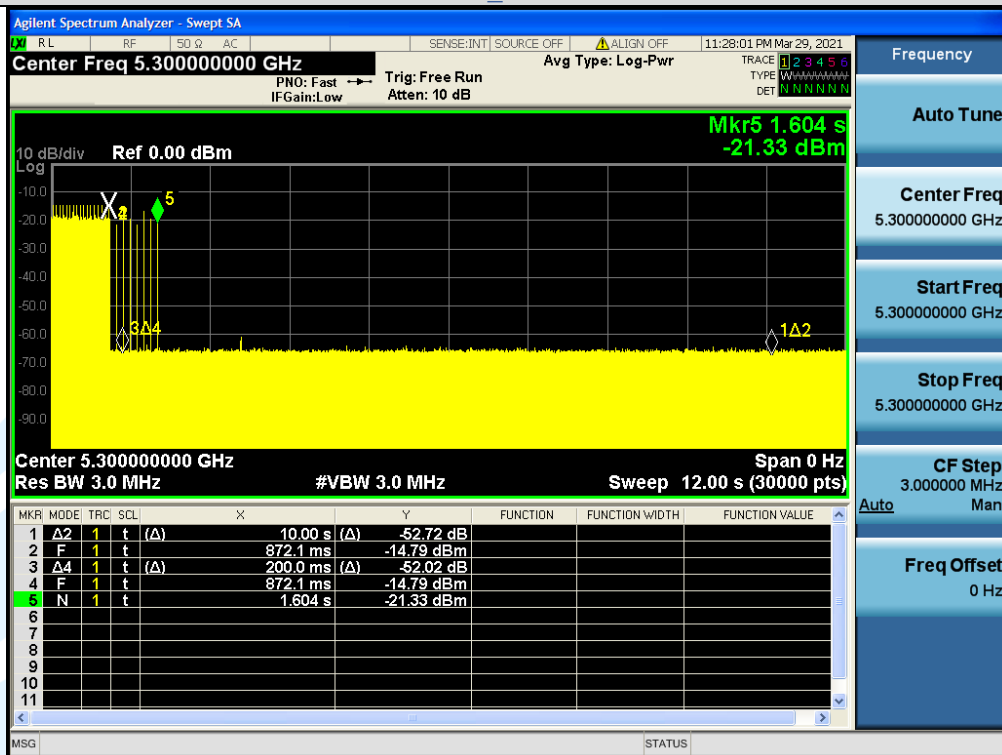
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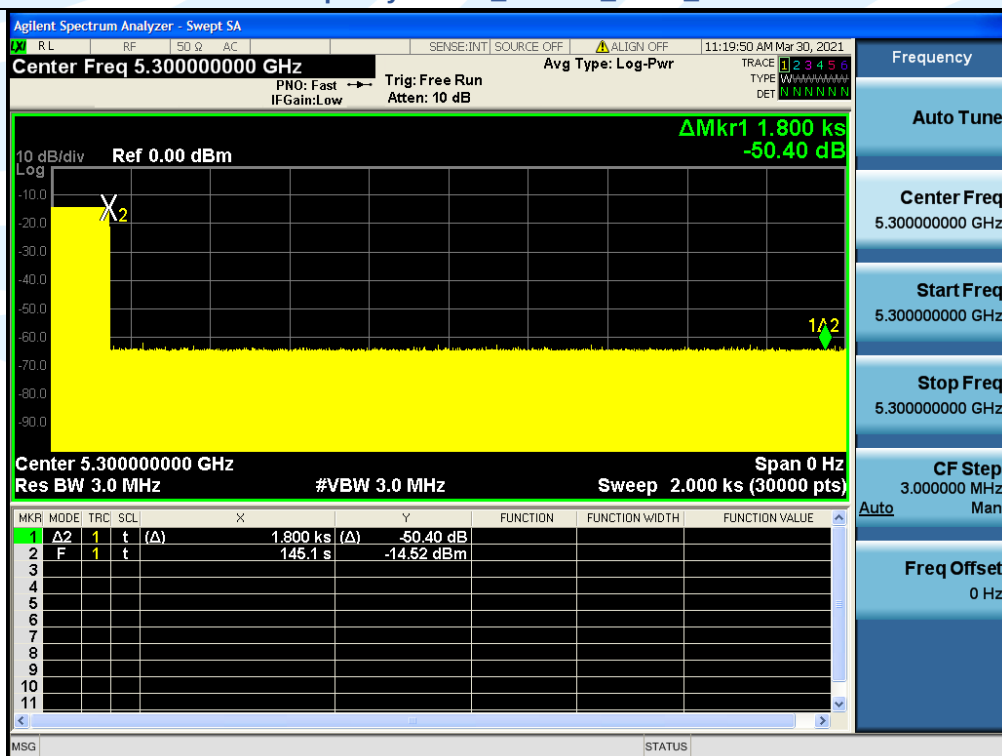
Channel Move Time & Channel Closing Transmission Time 802.11a_5300 MHz



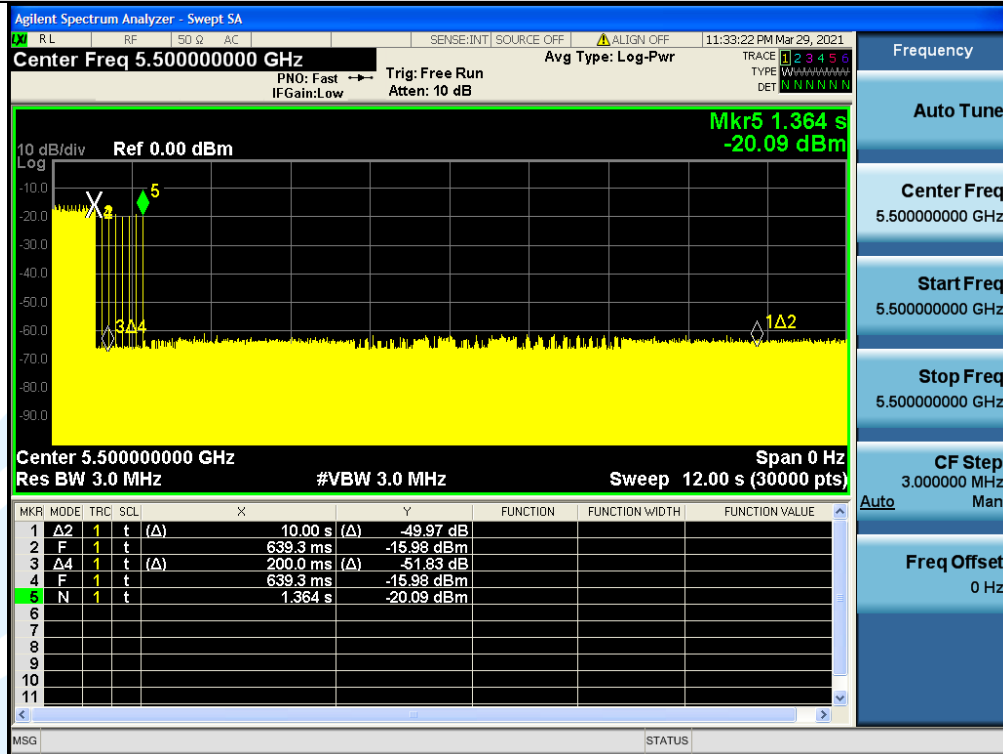
Note:

- 1) Mark1 Time: 872.1ms, Mark2 Time: 1872.1ms, Ontime Points: 27
- 2) Dwell = S/B = 12000ms/30000 = 0.4 ms, C = N x Dwell = 27 x 0.4 = 10.8ms
- 3) CMT = 1.604 s – 0.872 s = 0.732s

Non-Occupancy Period_802.11a_CH60_5300 MHz



Channel Move Time & Channel Closing Transmission Time 802.11a_5500 MHz



Note:

- 4) Mark1 Time: 639.3 ms, Mark2 Time: 1639.3 ms, Ontime Points: 24
- 5) Dwell = S/B = 12000ms/30000 = 0.4 ms, C = N x Dwell = 24 x 0.4 = 9.6ms
- 6) CMT = 1.364s – 0.639 s = 0.725s

Non-Occupancy Period_802.11a_CH100_5500 MHz

