

7.9 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C

Humidity: 52.3 % RH

Atmospheric Pressure: 1003 mbar

7.9.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	



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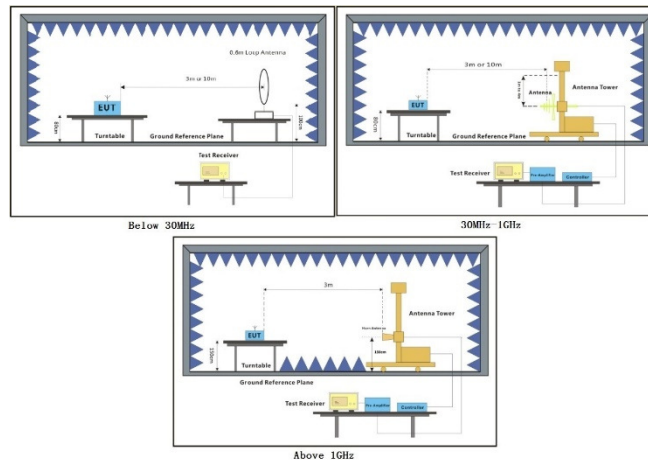
Final test 00

TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80). Only the data of worst case is recorded in the report.

Pre-scan 01

Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW40); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW80). Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

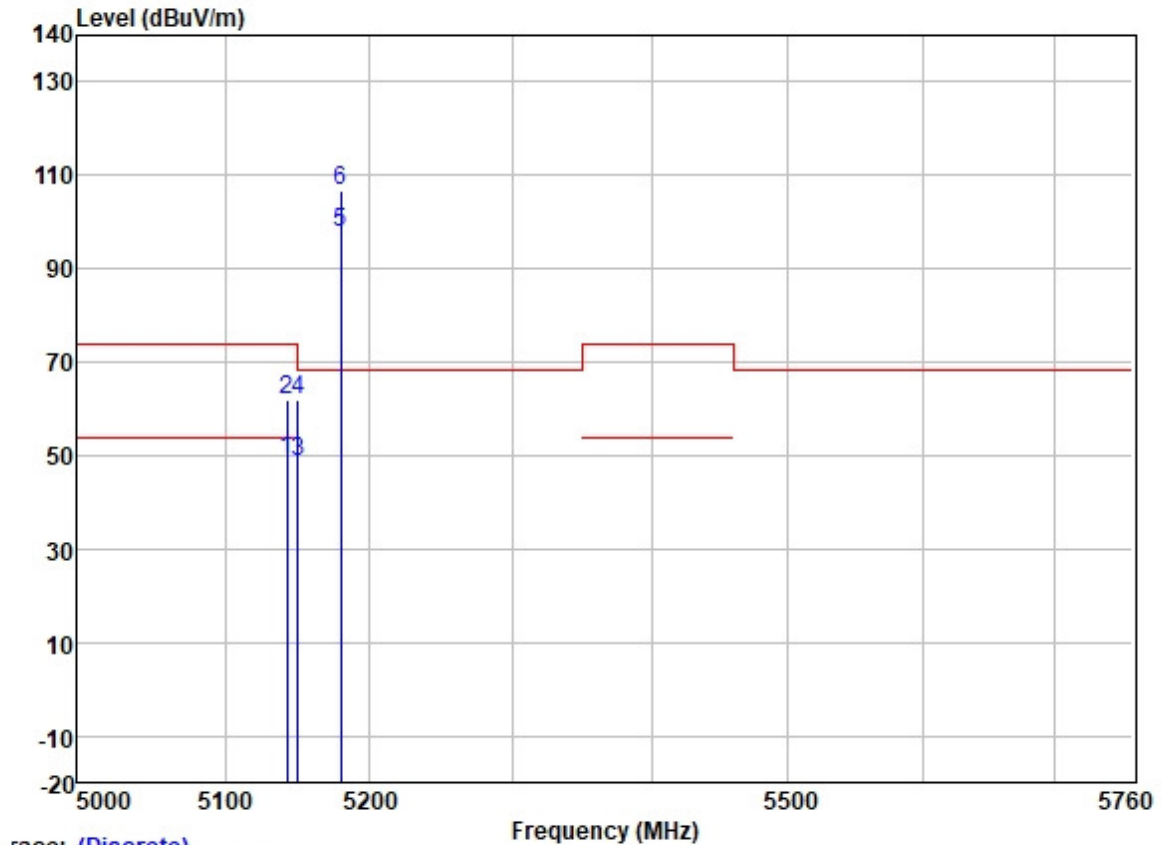
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: Low



race: (Discrete)

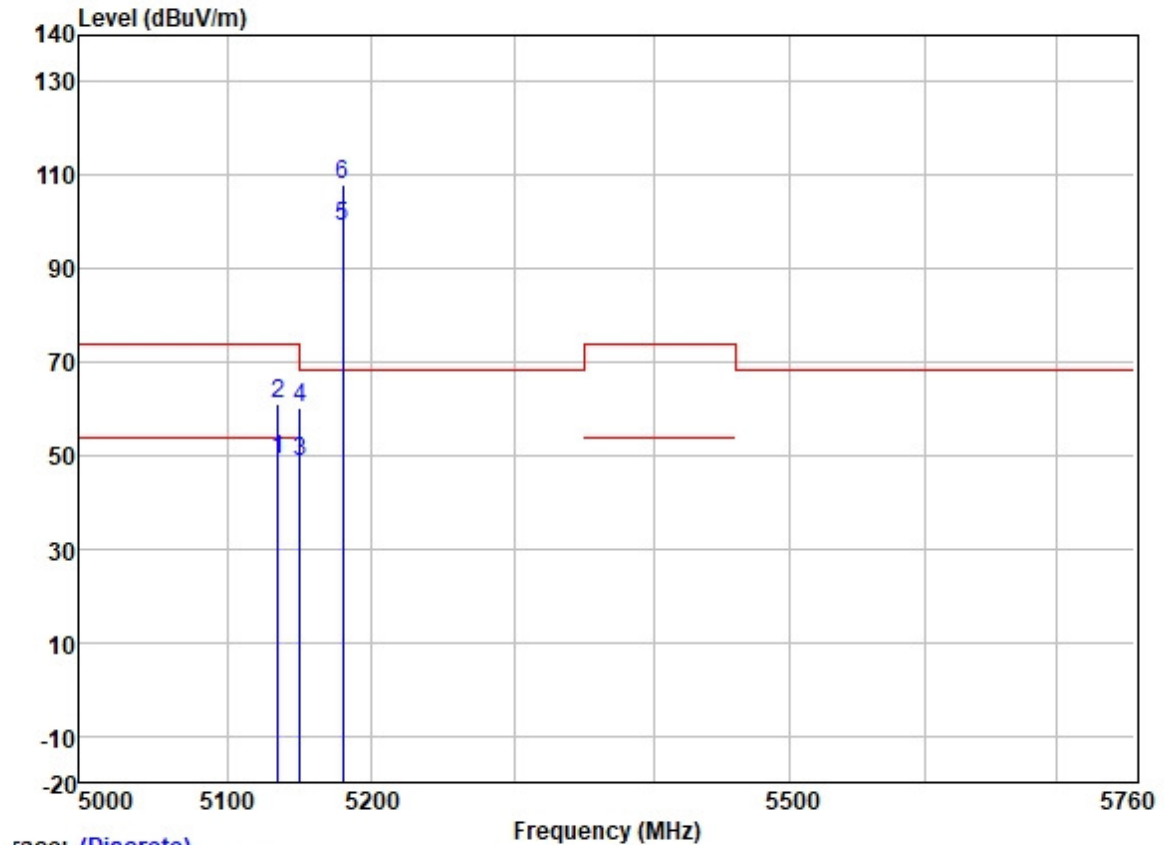
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5142.462	48.59	31.72	5.62	36.86	49.07	54.00	-4.93	HORIZONTAL Average
2	5142.462	61.23	31.72	5.62	36.86	61.71	74.00	-12.29	HORIZONTAL Peak
3	5149.980	48.23	31.72	5.62	36.86	48.71	54.00	-5.29	HORIZONTAL Average
4	5149.980	61.49	31.72	5.62	36.86	61.97	74.00	-12.03	HORIZONTAL Peak
5	5180.000	97.20	31.73	5.61	36.87	97.67	-----	-----	HORIZONTAL Average
6 *	5180.000	106.42	31.73	5.61	36.87	106.89	68.20	38.69	HORIZONTAL Peak



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Test Mode: 00; Polarity: Vertical; Modulation: 802.11a; Bandwidth: 20MHz; Channel: Low



race: (Discrete)

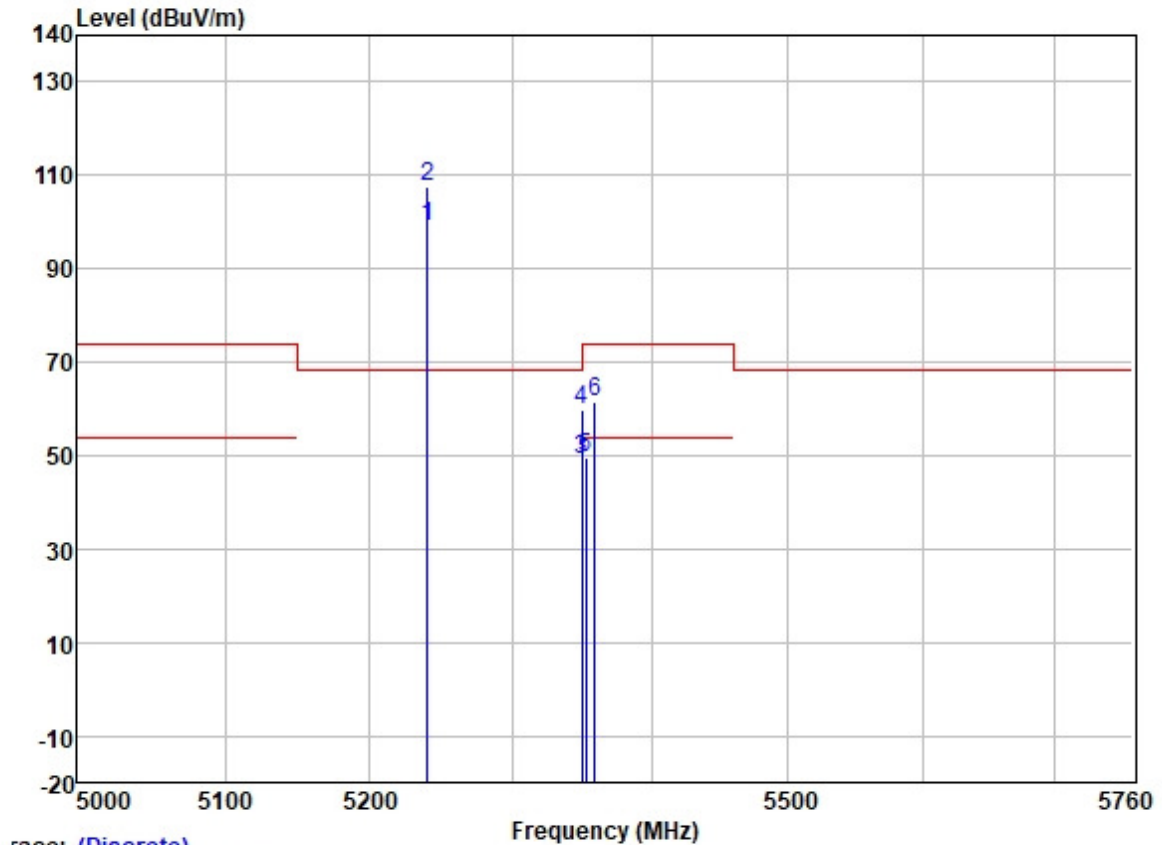
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5135.079	48.47	31.72	5.63	36.86	48.96	54.00	-5.04	VERTICAL
2	5135.079	60.67	31.72	5.63	36.86	61.16	74.00	-12.84	VERTICAL
3	5149.980	48.36	31.72	5.62	36.86	48.84	54.00	-5.16	VERTICAL
4	5149.980	59.77	31.72	5.62	36.86	60.25	74.00	-13.75	VERTICAL
5	5180.000	98.45	31.73	5.61	36.87	98.92	-----	-----	VERTICAL
6 *	5180.000	107.41	31.73	5.61	36.87	107.88	68.20	39.68	VERTICAL



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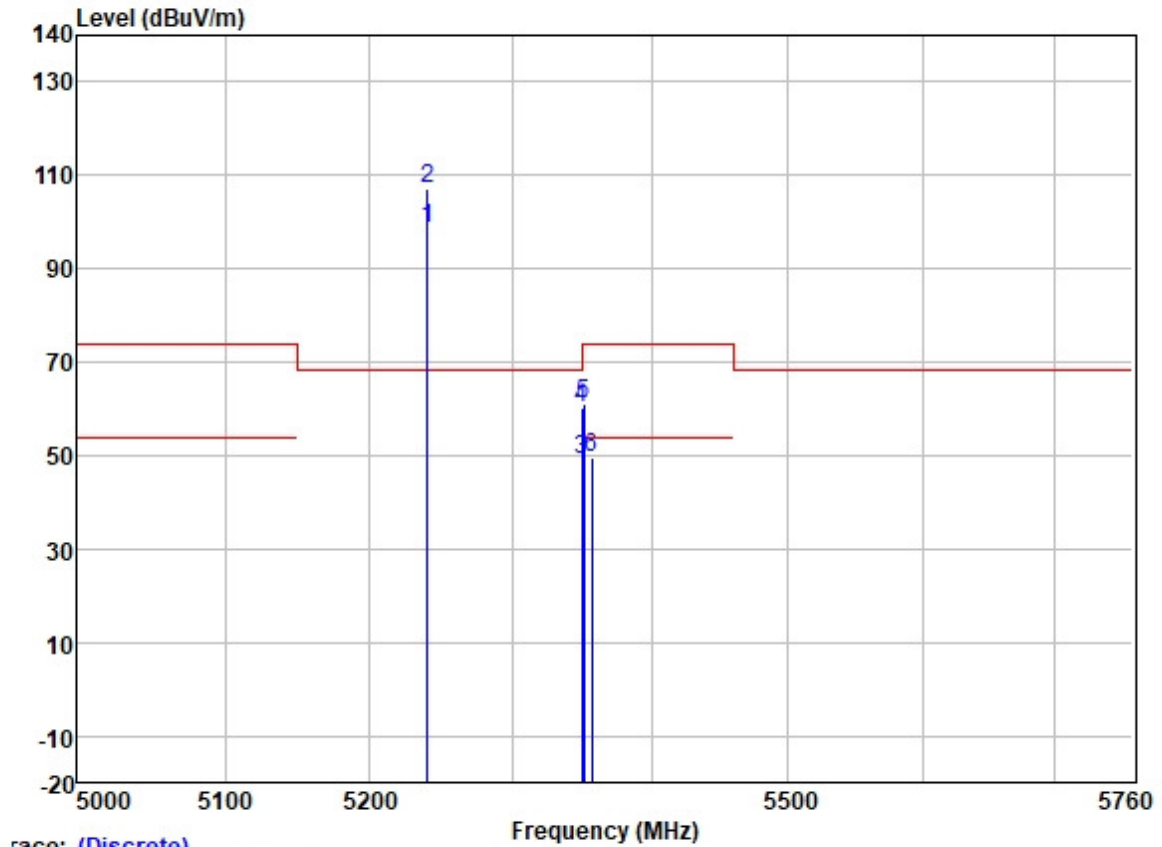
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: High



		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5240.000	98.21	31.75	5.74	36.87	98.83	-----	-----	HORIZONTAL	Average
2 *	5240.000	106.90	31.75	5.74	36.87	107.52	68.20	39.32	HORIZONTAL	Peak
3	5350.020	48.14	31.77	6.05	36.88	49.08	54.00	-4.92	HORIZONTAL	Average
4	5350.020	59.05	31.77	6.05	36.88	59.99	74.00	-14.01	HORIZONTAL	Peak
5	5352.770	48.63	31.77	6.05	36.88	49.57	54.00	-4.43	HORIZONTAL	Average
6	5359.007	60.41	31.78	6.03	36.88	61.34	74.00	-12.66	HORIZONTAL	Peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



race: (Discrete)

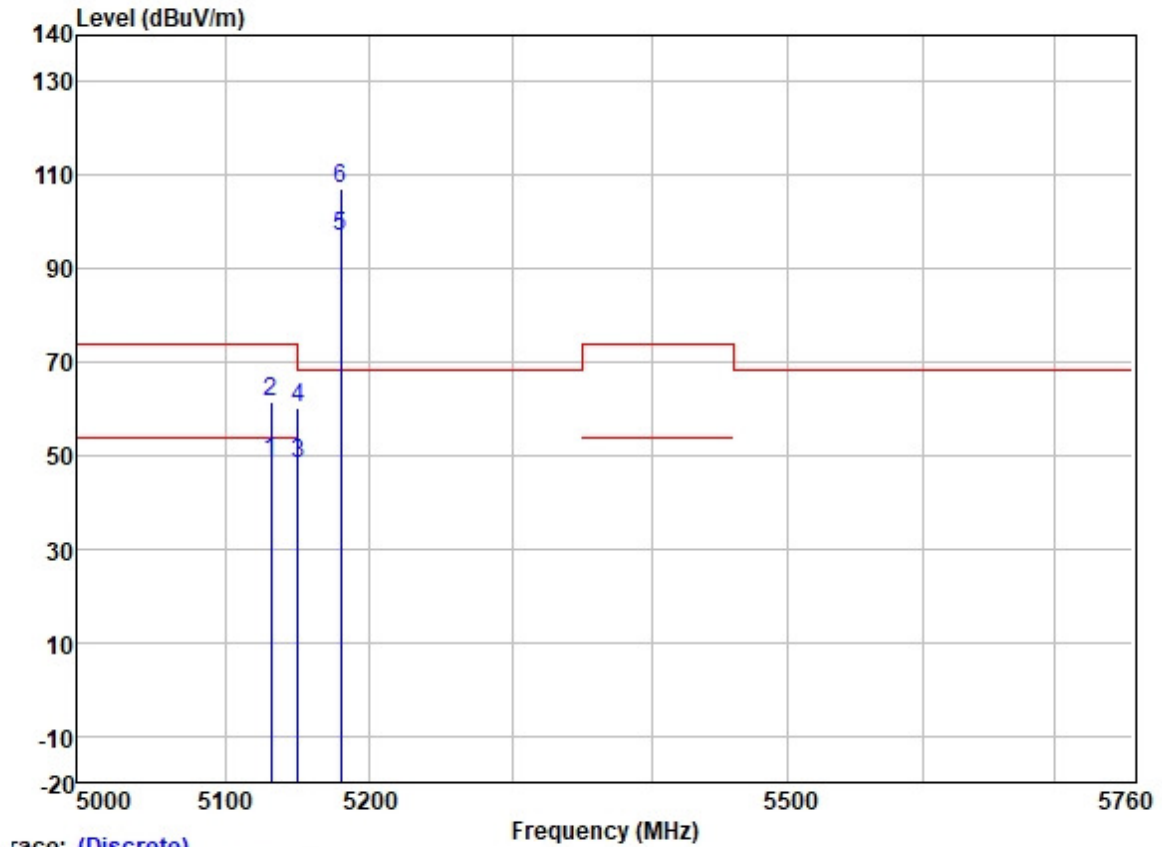
	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5240.000	97.88	31.75	5.74	36.87	98.50	-----	-----	VERTICAL	Average
2 *	5240.000	106.67	31.75	5.74	36.87	107.29	68.20	39.09	VERTICAL	Peak
3	5350.020	48.34	31.77	6.05	36.88	49.28	54.00	-4.72	VERTICAL	Average
4	5350.020	59.22	31.77	6.05	36.88	60.16	74.00	-13.84	VERTICAL	Peak
5	5351.212	59.93	31.77	6.05	36.88	60.87	74.00	-13.13	VERTICAL	Peak
6	5357.022	48.57	31.78	6.03	36.88	49.50	54.00	-4.50	VERTICAL	Average



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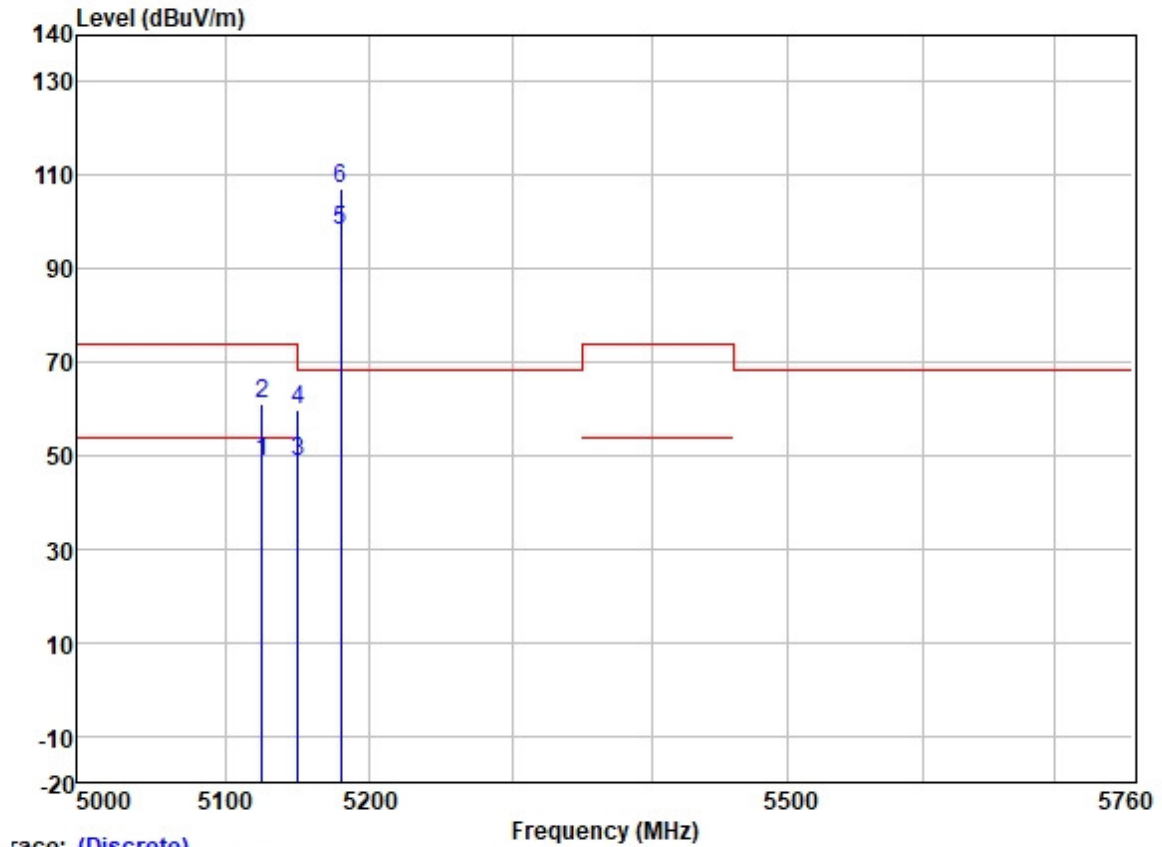
Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



Trace: (Discrete)

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5131.689	48.27	31.72	5.63	36.86	48.76	54.00	-5.24	HORIZONTAL Average
2	5131.689	61.05	31.72	5.63	36.86	61.54	74.00	-12.46	HORIZONTAL Peak
3	5149.980	47.99	31.72	5.62	36.86	48.47	54.00	-5.53	HORIZONTAL Average
4	5149.980	59.80	31.72	5.62	36.86	60.28	74.00	-13.72	HORIZONTAL Peak
5	5180.000	96.58	31.73	5.61	36.87	97.05	-----	-----	HORIZONTAL Average
6 *	5180.000	106.49	31.73	5.61	36.87	106.96	68.20	38.76	HORIZONTAL Peak

Test Mode: 00; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



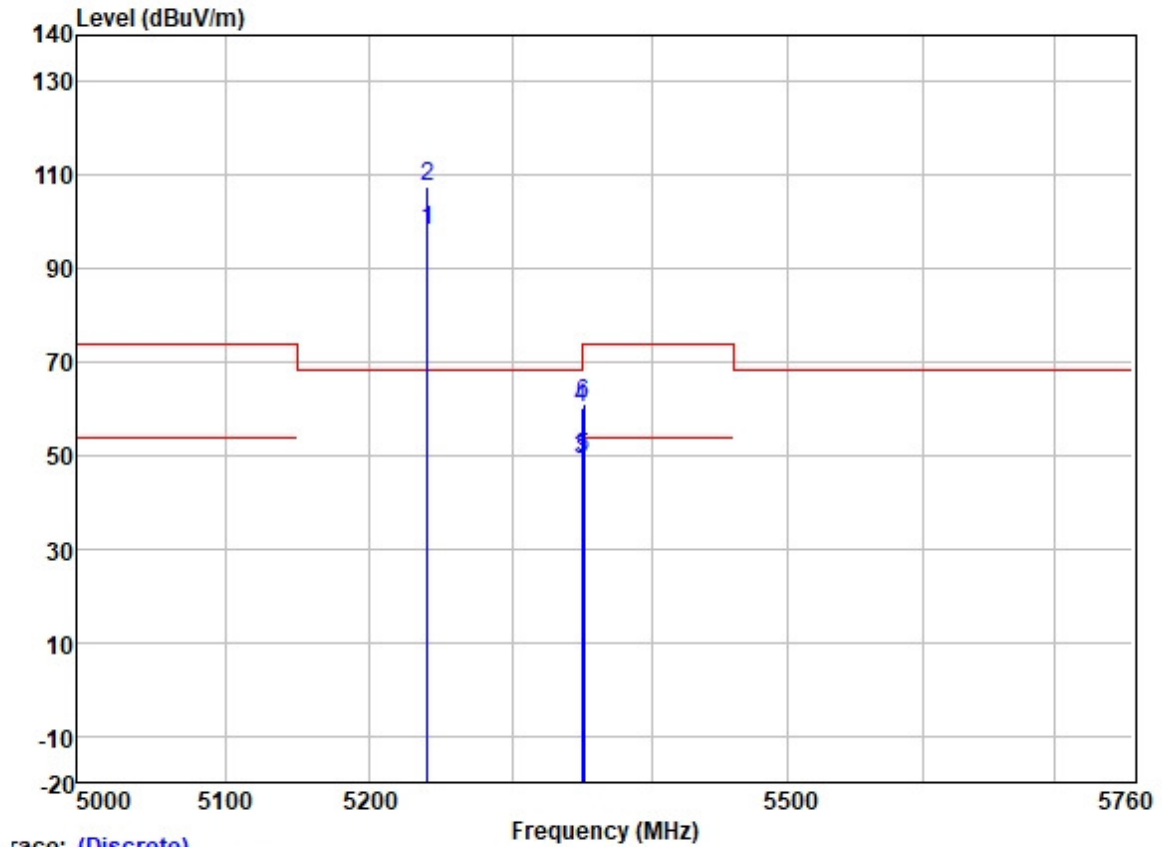
Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5125.117	48.35	31.72	5.64	36.86	48.85	54.00	-5.15	VERTICAL Average
2	5125.117	60.75	31.72	5.64	36.86	61.25	74.00	-12.75	VERTICAL Peak
3	5149.980	48.13	31.72	5.62	36.86	48.61	54.00	-5.39	VERTICAL Average
4	5149.980	59.39	31.72	5.62	36.86	59.87	74.00	-14.13	VERTICAL Peak
5	5180.000	97.69	31.73	5.61	36.87	98.16	-----	-----	VERTICAL Average
6 *	5180.000	106.60	31.73	5.61	36.87	107.07	68.20	38.87	VERTICAL Peak



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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High

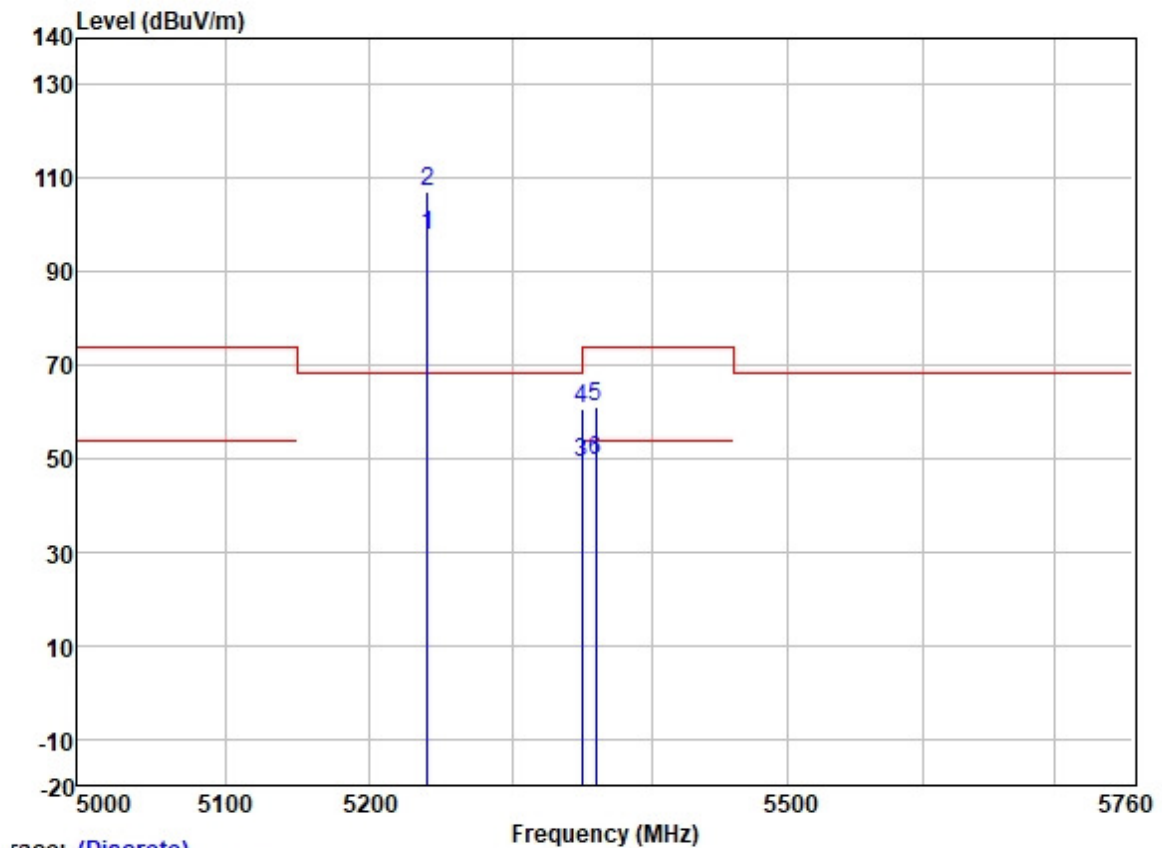


	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	97.72	31.75	5.74	36.87	98.34	-----	-----	HORIZONTAL Average
2 *	5240.000	106.93	31.75	5.74	36.87	107.55	68.20	39.35	HORIZONTAL Peak
3	5350.020	48.10	31.77	6.05	36.88	49.04	54.00	-4.96	HORIZONTAL Average
4	5350.020	59.48	31.77	6.05	36.88	60.42	74.00	-13.58	HORIZONTAL Peak
5	5350.929	48.76	31.77	6.05	36.88	49.70	54.00	-4.30	HORIZONTAL Average
6	5350.929	60.23	31.77	6.05	36.88	61.17	74.00	-12.83	HORIZONTAL Peak



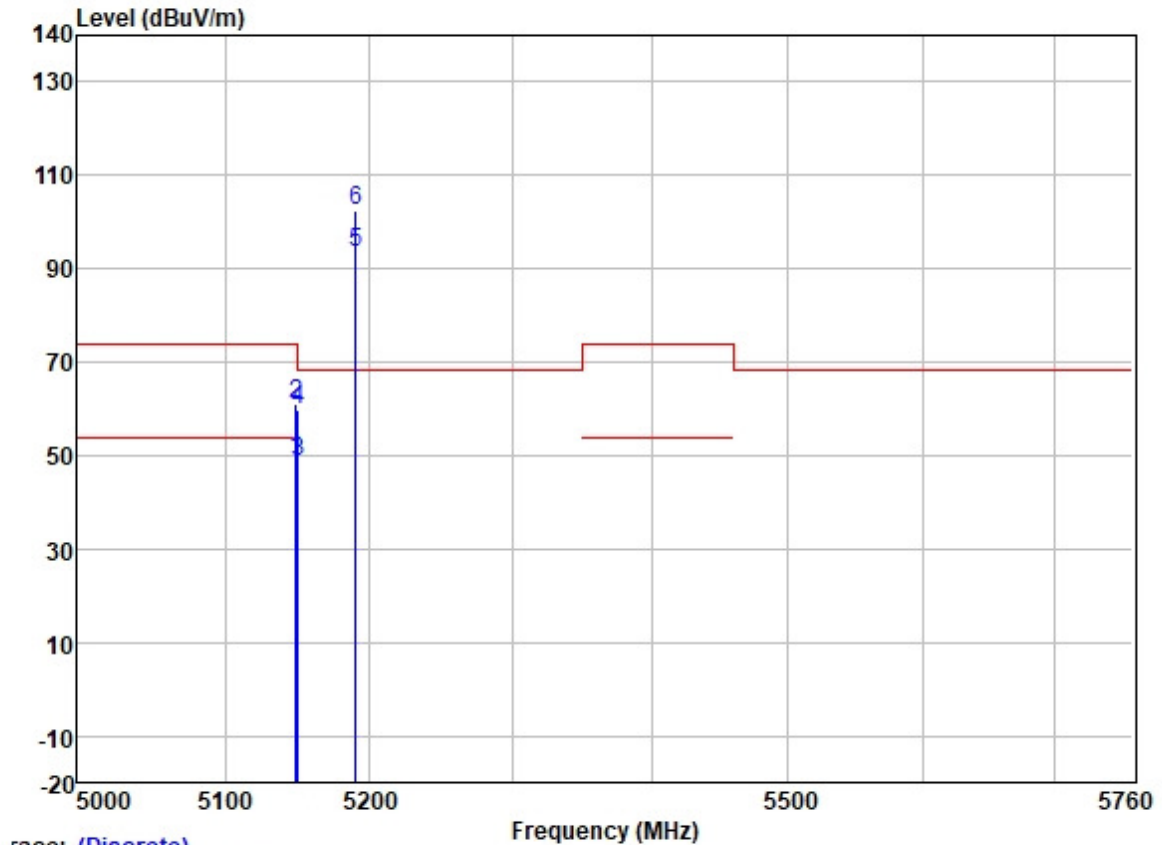
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	97.01	31.75	5.74	36.87	97.63	-----	VERTICAL	Average
2 *	5240.000	106.45	31.75	5.74	36.87	107.07	68.20	38.87	VERTICAL
3	5350.020	48.33	31.77	6.05	36.88	49.27	54.00	-4.73	VERTICAL
4	5350.020	59.66	31.77	6.05	36.88	60.60	74.00	-13.40	VERTICAL
5	5359.716	60.13	31.78	6.03	36.88	61.06	74.00	-12.94	VERTICAL
6	5359.858	48.51	31.78	6.03	36.88	49.44	54.00	-4.56	VERTICAL

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



race: (Discrete)

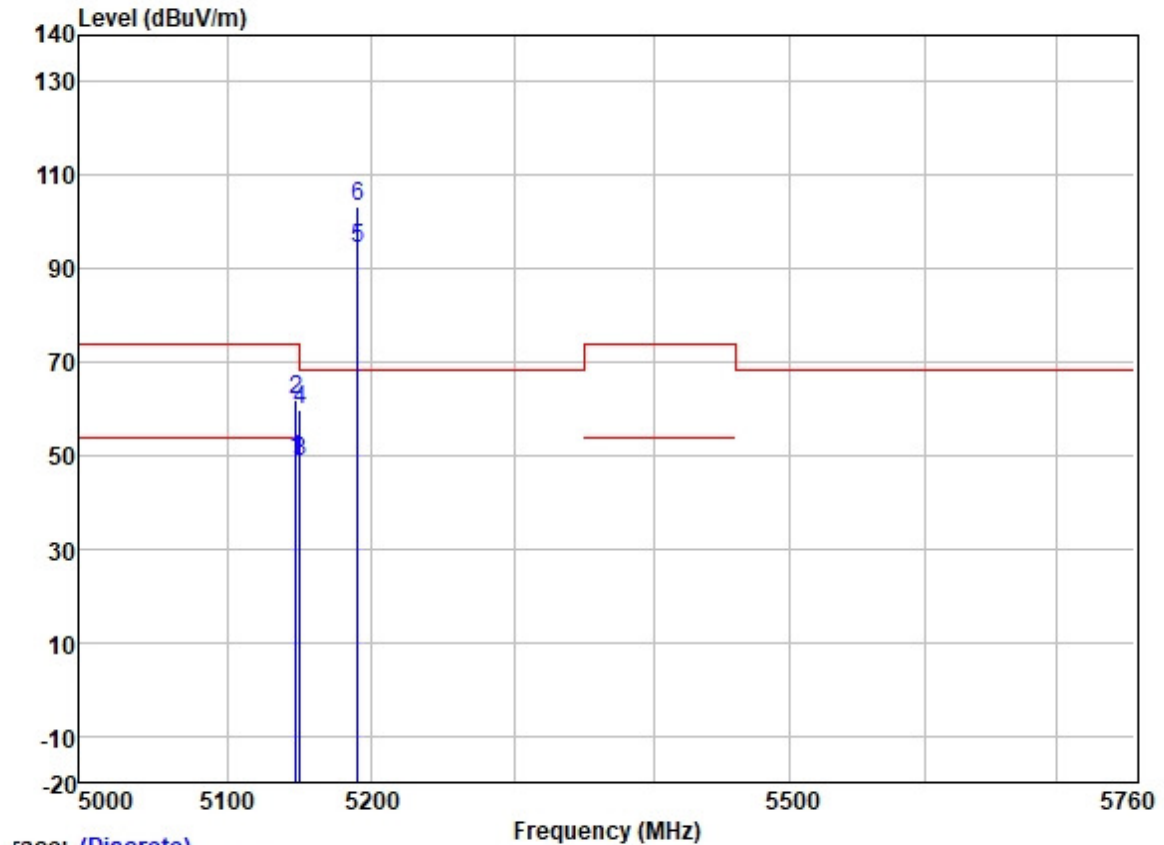
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5148.982	48.55	31.72	5.62	36.86	49.03	54.00	-4.97	HORIZONTAL Average
2	5148.982	60.50	31.72	5.62	36.86	60.98	74.00	-13.02	HORIZONTAL Peak
3	5149.980	48.37	31.72	5.62	36.86	48.85	54.00	-5.15	HORIZONTAL Average
4	5149.980	59.43	31.72	5.62	36.86	59.91	74.00	-14.09	HORIZONTAL Peak
5	5190.000	93.02	31.73	5.60	36.87	93.48	-----	-----	HORIZONTAL Average
6 *	5190.000	101.87	31.73	5.60	36.87	102.33	68.20	34.13	HORIZONTAL Peak



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Test Mode: 00; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 40MHz; Channel: Low



race: (Discrete)

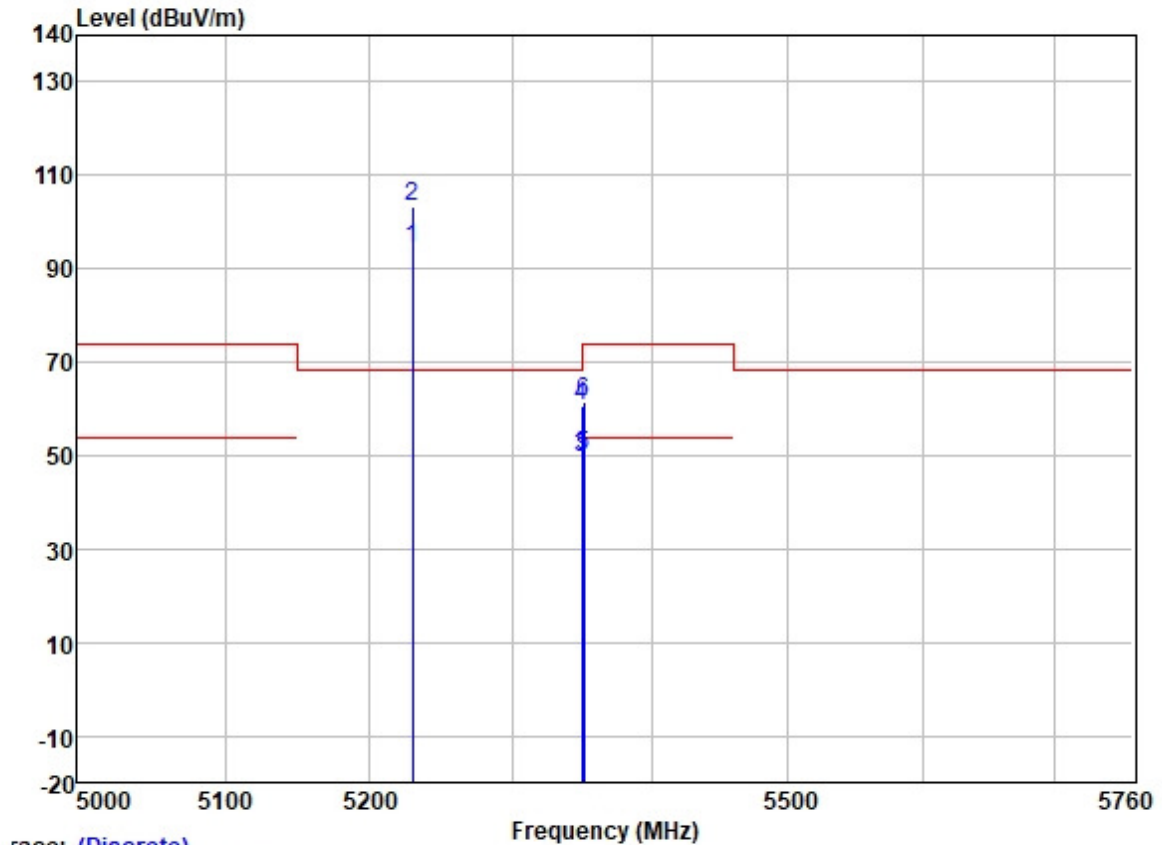
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5147.187	48.49	31.72	5.62	36.86	48.97	54.00	-5.03	VERTICAL Average
2	5147.187	61.39	31.72	5.62	36.86	61.87	74.00	-12.13	VERTICAL Peak
3	5149.980	48.31	31.72	5.62	36.86	48.79	54.00	-5.21	VERTICAL Average
4	5149.980	59.20	31.72	5.62	36.86	59.68	74.00	-14.32	VERTICAL Peak
5	5190.000	93.73	31.73	5.60	36.87	94.19	-----	-----	VERTICAL Average
6 *	5190.000	102.85	31.73	5.60	36.87	103.31	68.20	35.11	VERTICAL Peak



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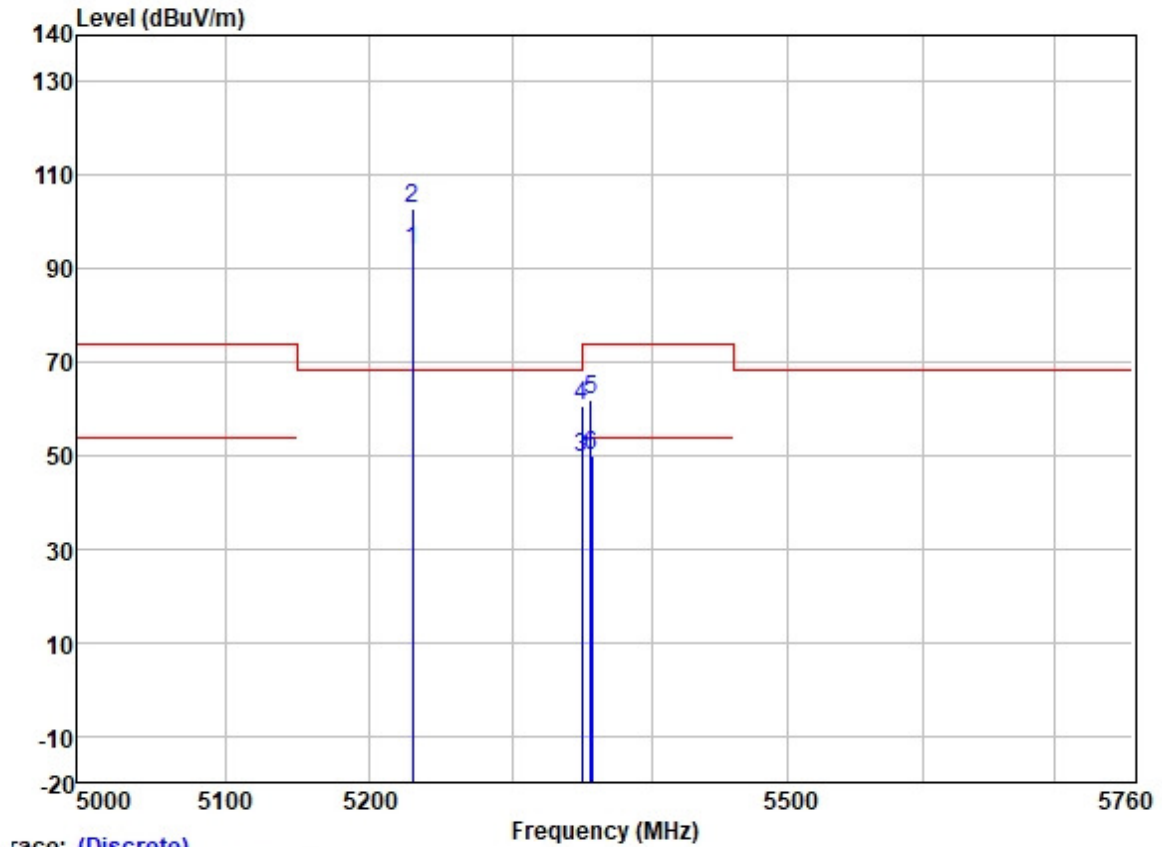
Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5230.000	93.60	31.74	5.70	36.87	94.17	-----	-----	HORIZONTAL Average
2 *	5230.000	102.90	31.74	5.70	36.87	103.47	68.20	35.27	HORIZONTAL Peak
3	5350.020	48.69	31.77	6.05	36.88	49.63	54.00	-4.37	HORIZONTAL Average
4	5350.020	59.90	31.77	6.05	36.88	60.84	74.00	-13.16	HORIZONTAL Peak
5	5350.911	49.17	31.77	6.05	36.88	50.11	54.00	-3.89	HORIZONTAL Average
6	5350.911	60.69	31.77	6.05	36.88	61.63	74.00	-12.37	HORIZONTAL Peak

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

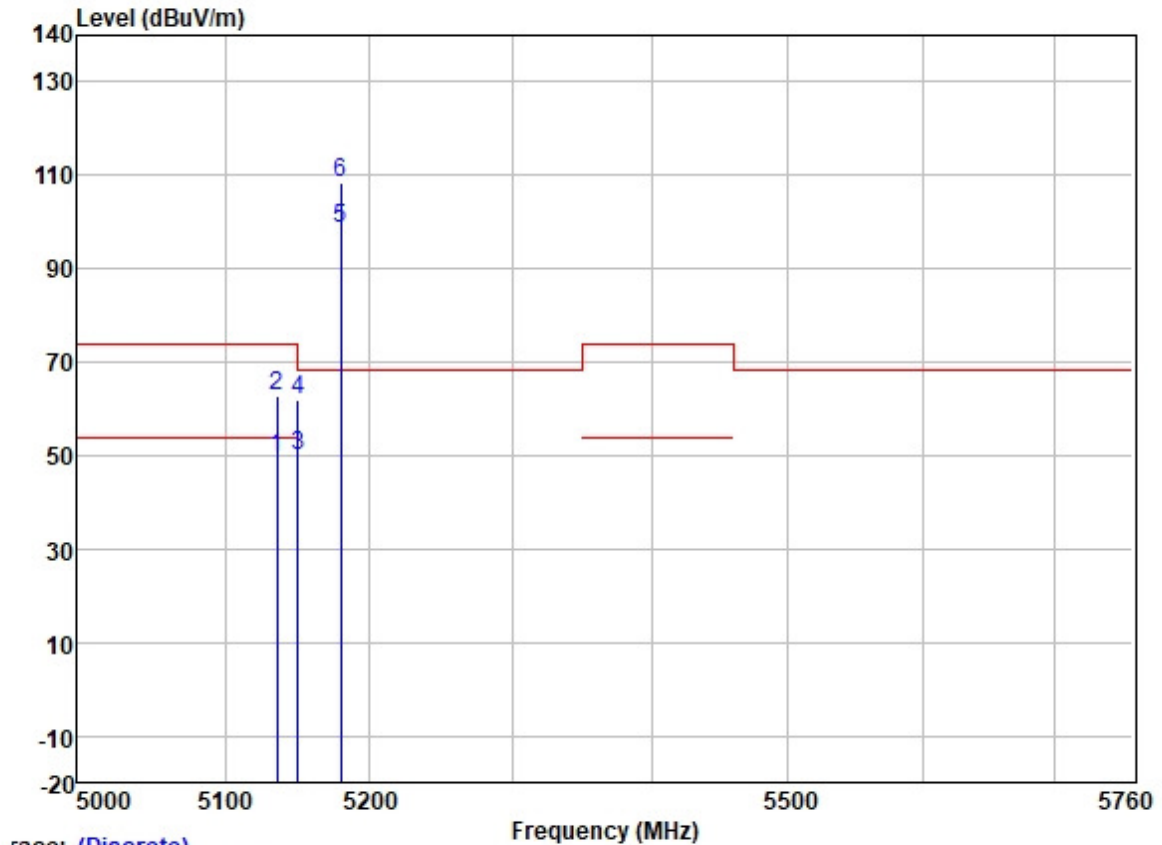
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5230.000	93.22	31.74	5.70	36.87	93.79	-----	-----	VERTICAL Average
2 *	5230.000	102.23	31.74	5.70	36.87	102.80	68.20	34.60	VERTICAL Peak
3	5350.020	48.72	31.77	6.05	36.88	49.66	54.00	-4.34	VERTICAL Average
4	5350.020	59.50	31.77	6.05	36.88	60.44	74.00	-13.56	VERTICAL Peak
5	5355.940	60.91	31.78	6.03	36.88	61.84	74.00	-12.16	VERTICAL Peak
6	5357.239	49.14	31.78	6.03	36.88	50.07	54.00	-3.93	VERTICAL Average



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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



race: (Discrete)

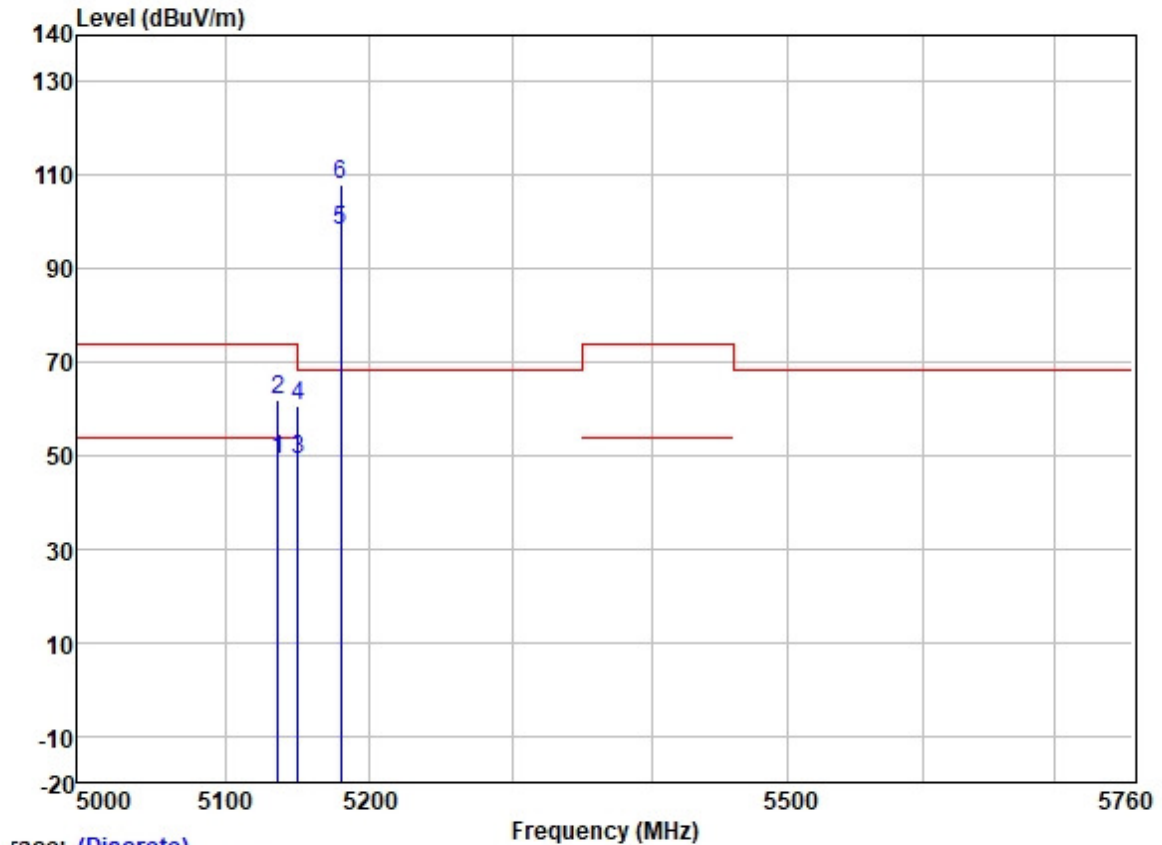
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5135.876	49.24	31.72	5.63	36.86	49.73	54.00	-4.27	HORIZONTAL	Average
2	5135.876	62.24	31.72	5.63	36.86	62.73	74.00	-11.27	HORIZONTAL	Peak
3	5149.980	49.43	31.72	5.62	36.86	49.91	54.00	-4.09	HORIZONTAL	Average
4	5149.980	61.32	31.72	5.62	36.86	61.80	74.00	-12.20	HORIZONTAL	Peak
5	5180.000	97.99	31.73	5.61	36.87	98.46	-----	-----	HORIZONTAL	Average
6 *	5180.000	108.04	31.73	5.61	36.87	108.51	68.20	40.31	HORIZONTAL	Peak



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Test Mode: 00; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low



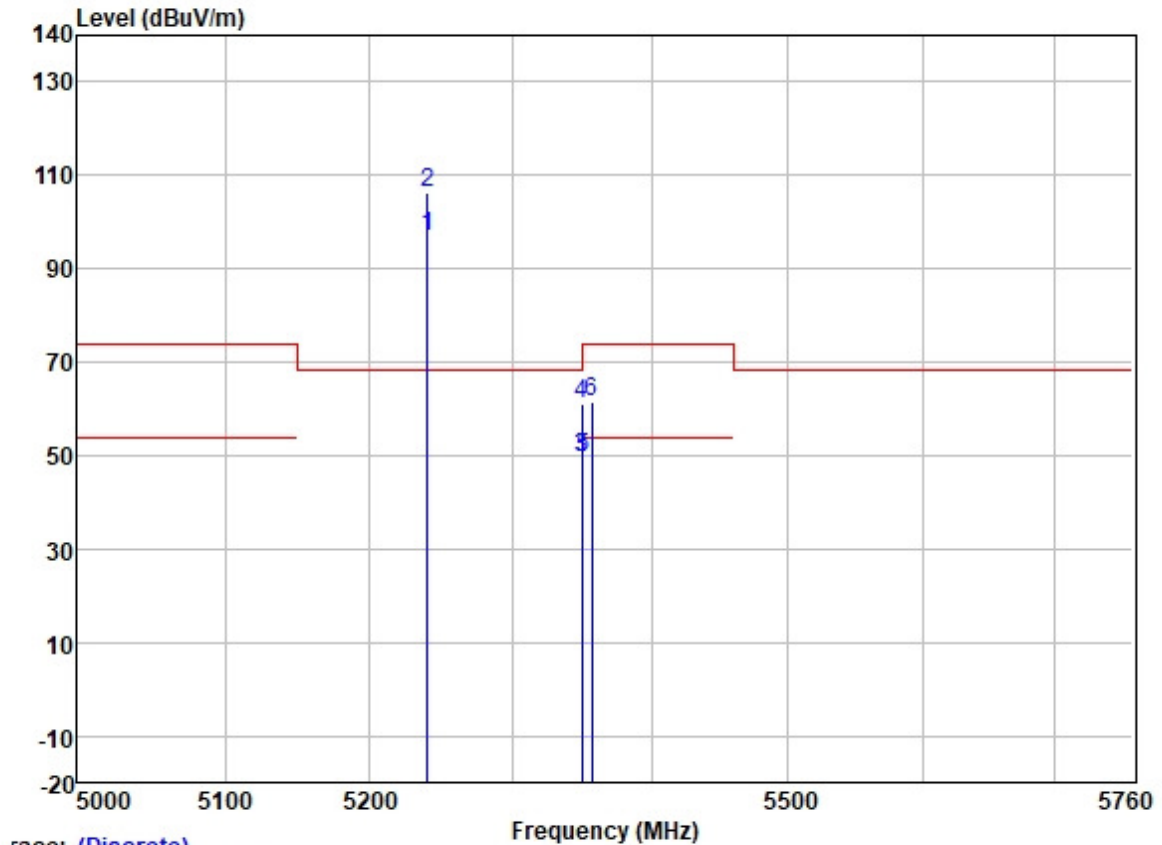
race: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5136.175	48.80	31.72	5.63	36.86	49.29	54.00	-4.71	VERTICAL Average
2	5136.175	61.39	31.72	5.63	36.86	61.88	74.00	-12.12	VERTICAL Peak
3	5149.980	48.75	31.72	5.62	36.86	49.23	54.00	-4.77	VERTICAL Average
4	5149.980	60.30	31.72	5.62	36.86	60.78	74.00	-13.22	VERTICAL Peak
5	5180.000	97.91	31.73	5.61	36.87	98.38	-----	-----	VERTICAL Average
6 *	5180.000	107.34	31.73	5.61	36.87	107.81	68.20	39.61	VERTICAL Peak



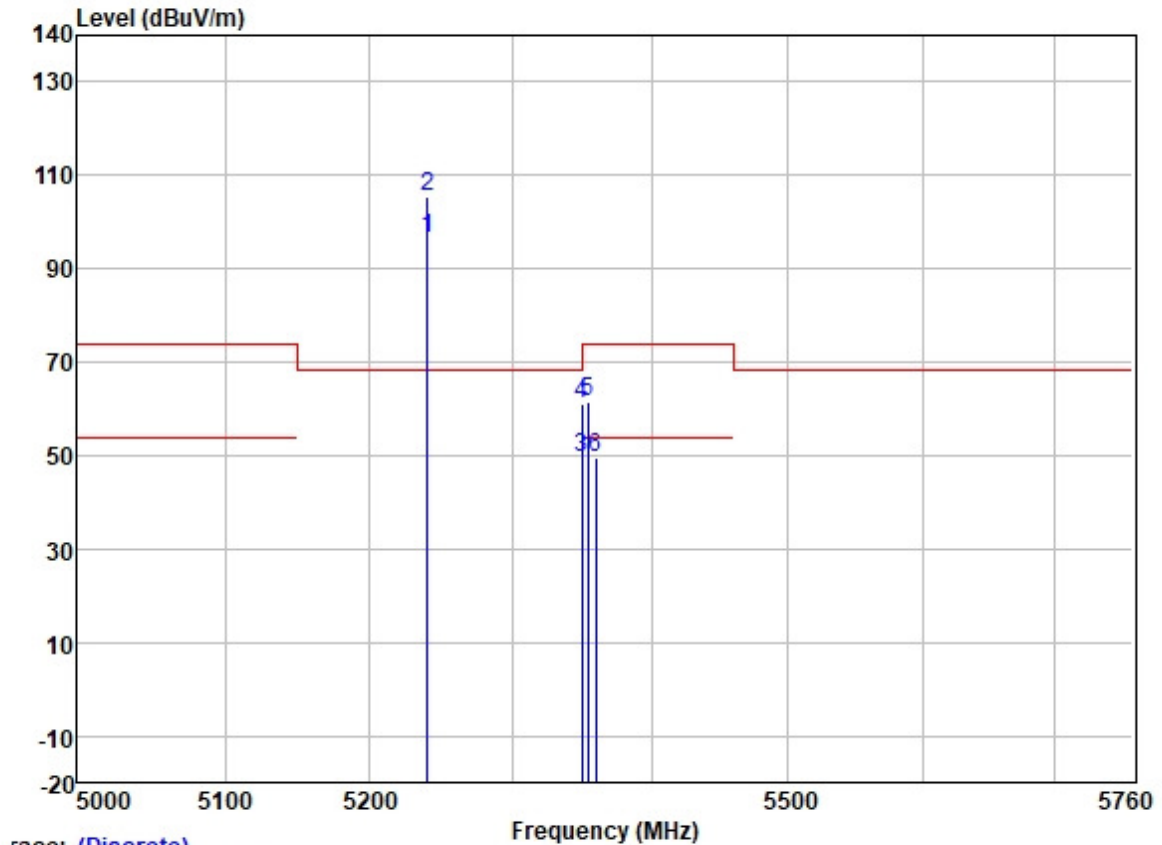
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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



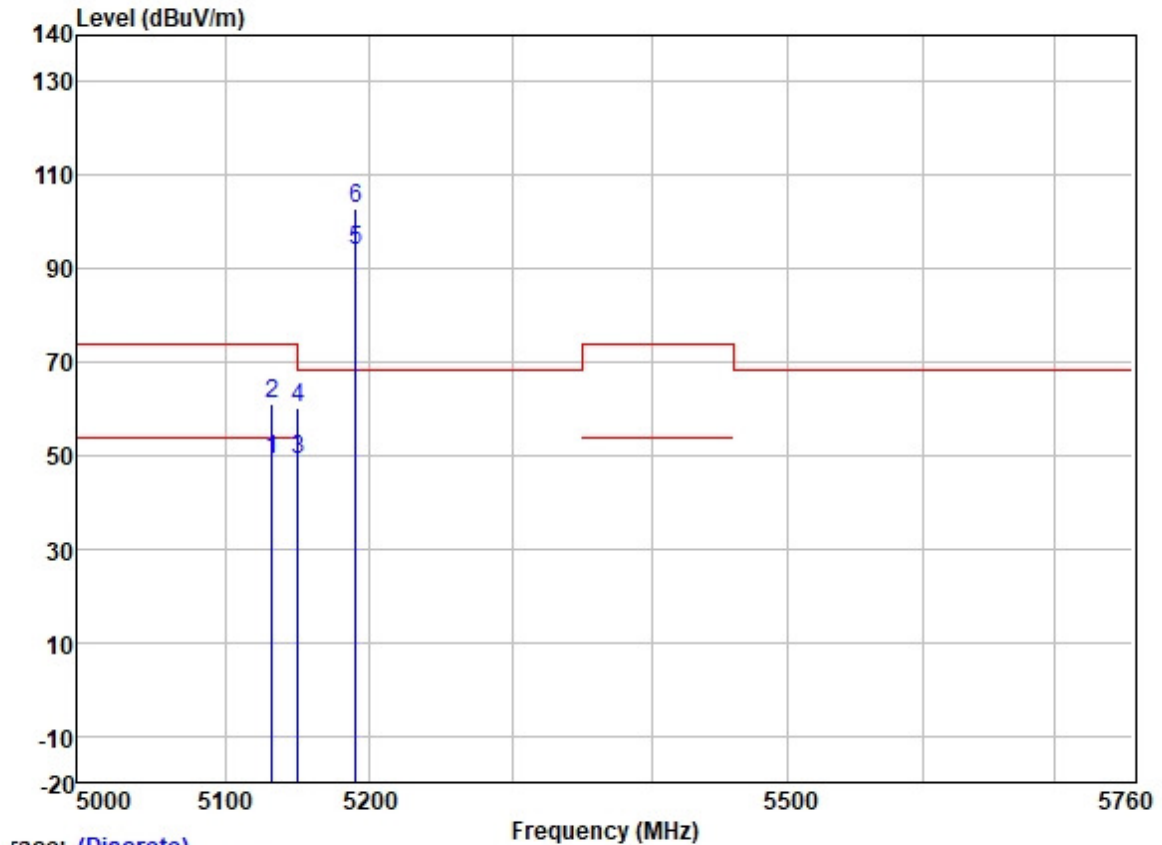
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5240.000	96.14	31.75	5.74	36.87	96.76	-----	-----	HORIZONTAL	Average
2 *	5240.000	105.52	31.75	5.74	36.87	106.14	68.20	37.94	HORIZONTAL	Peak
3	5350.020	48.59	31.77	6.05	36.88	49.53	54.00	-4.47	HORIZONTAL	Average
4	5350.020	60.16	31.77	6.05	36.88	61.10	74.00	-12.90	HORIZONTAL	Peak
5	5350.504	48.81	31.77	6.05	36.88	49.75	54.00	-4.25	HORIZONTAL	Average
6	5356.880	60.53	31.78	6.03	36.88	61.46	74.00	-12.54	HORIZONTAL	Peak

Test Mode: 00; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: High



	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5240.000	95.65	31.75	5.74	36.87	96.27	-----	-----	VERTICAL Average
2 *	5240.000	104.88	31.75	5.74	36.87	105.50	68.20	37.30	VERTICAL Peak
3	5350.020	48.45	31.77	6.05	36.88	49.39	54.00	-4.61	VERTICAL Average
4	5350.020	60.21	31.77	6.05	36.88	61.15	74.00	-12.85	VERTICAL Peak
5	5354.187	60.75	31.78	6.03	36.88	61.68	74.00	-12.32	VERTICAL Peak
6	5359.433	48.73	31.78	6.03	36.88	49.66	54.00	-4.34	VERTICAL Average

Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



race: (Discrete)

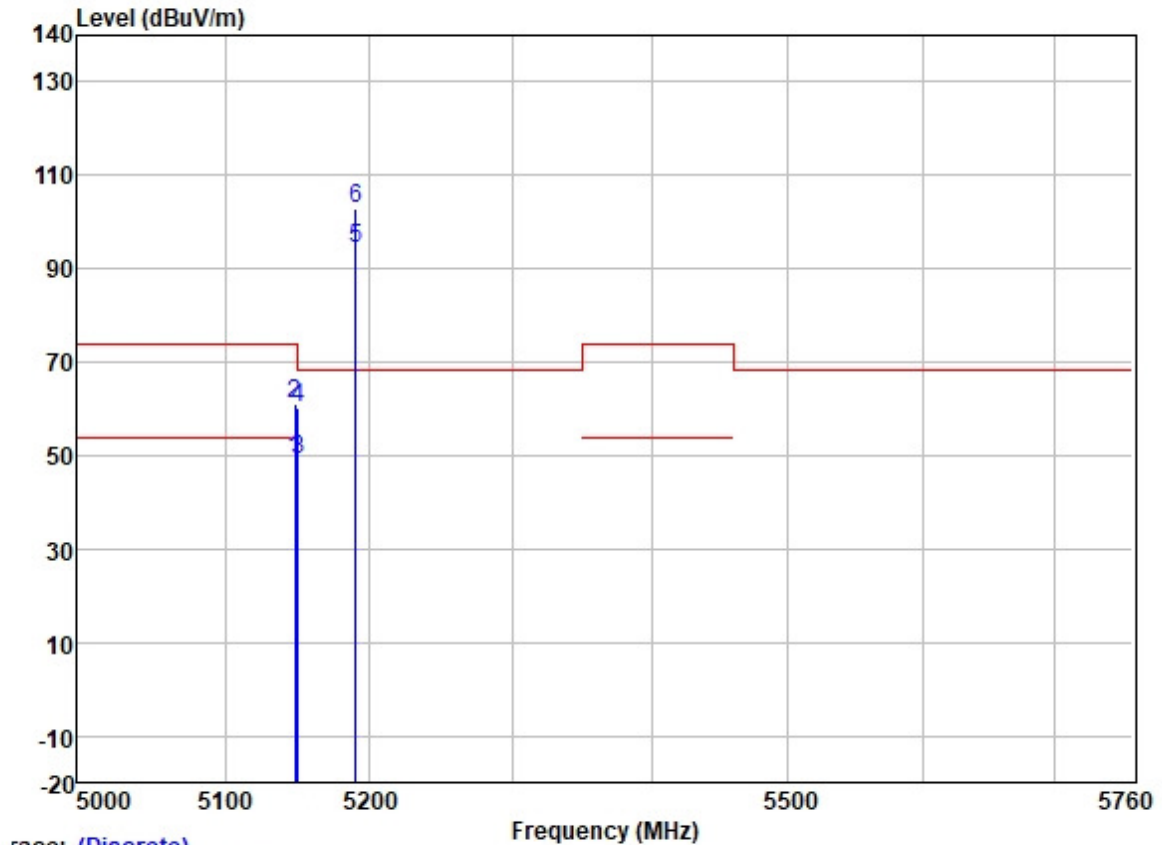
	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5132.006	48.82	31.72	5.63	36.86	49.31	54.00	-4.69	HORIZONTAL Average
2	5132.006	60.39	31.72	5.63	36.86	60.88	74.00	-13.12	HORIZONTAL Peak
3	5149.980	48.73	31.72	5.62	36.86	49.21	54.00	-4.79	HORIZONTAL Average
4	5149.980	59.66	31.72	5.62	36.86	60.14	74.00	-13.86	HORIZONTAL Peak
5	5190.000	93.51	31.73	5.60	36.87	93.97	-----	-----	HORIZONTAL Average
6 *	5190.000	102.30	31.73	5.60	36.87	102.76	68.20	34.56	HORIZONTAL Peak



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Test Mode: 00; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: Low



race: (Discrete)

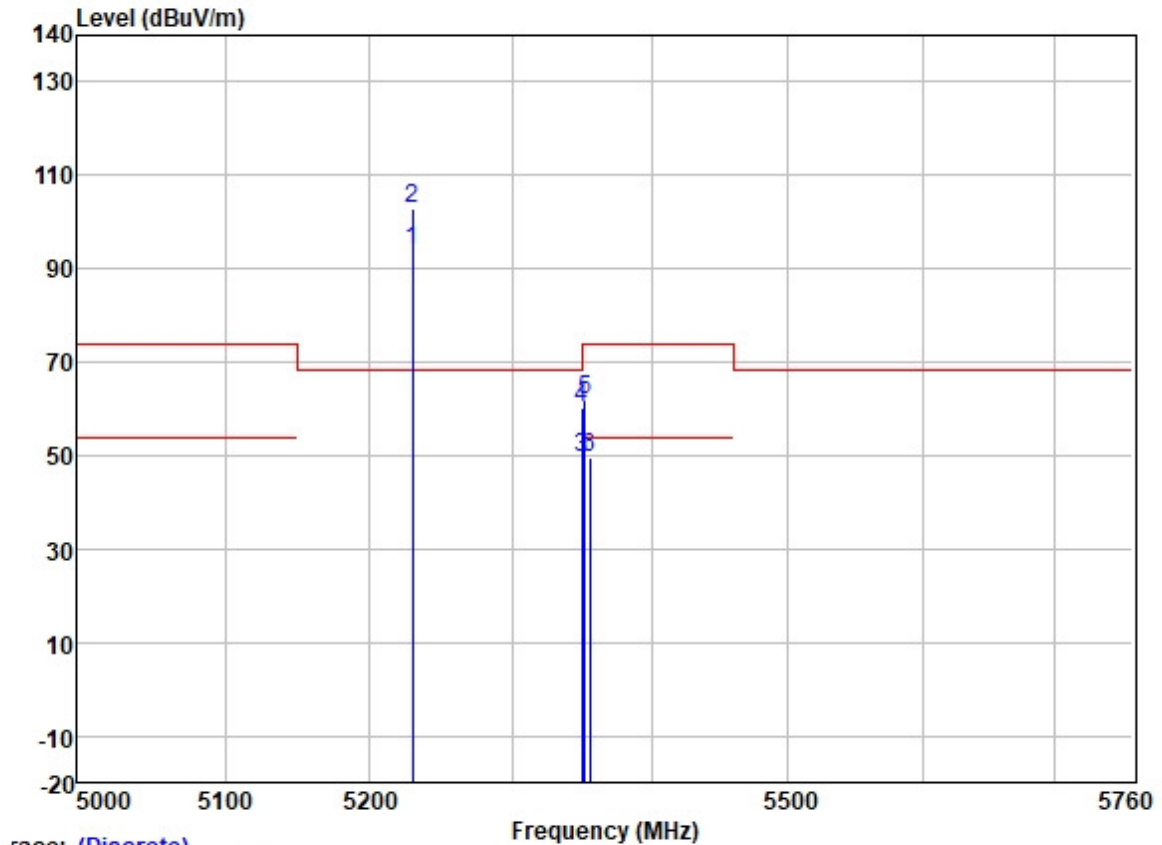
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5147.905	48.85	31.72	5.62	36.86	49.33	54.00	-4.67	VERTICAL Average
2	5147.905	60.78	31.72	5.62	36.86	61.26	74.00	-12.74	VERTICAL Peak
3	5149.980	48.60	31.72	5.62	36.86	49.08	54.00	-4.92	VERTICAL Average
4	5149.980	59.78	31.72	5.62	36.86	60.26	74.00	-13.74	VERTICAL Peak
5	5190.000	93.92	31.73	5.60	36.87	94.38	-----	-----	VERTICAL Average
6 *	5190.000	102.52	31.73	5.60	36.87	102.98	68.20	34.78	VERTICAL Peak



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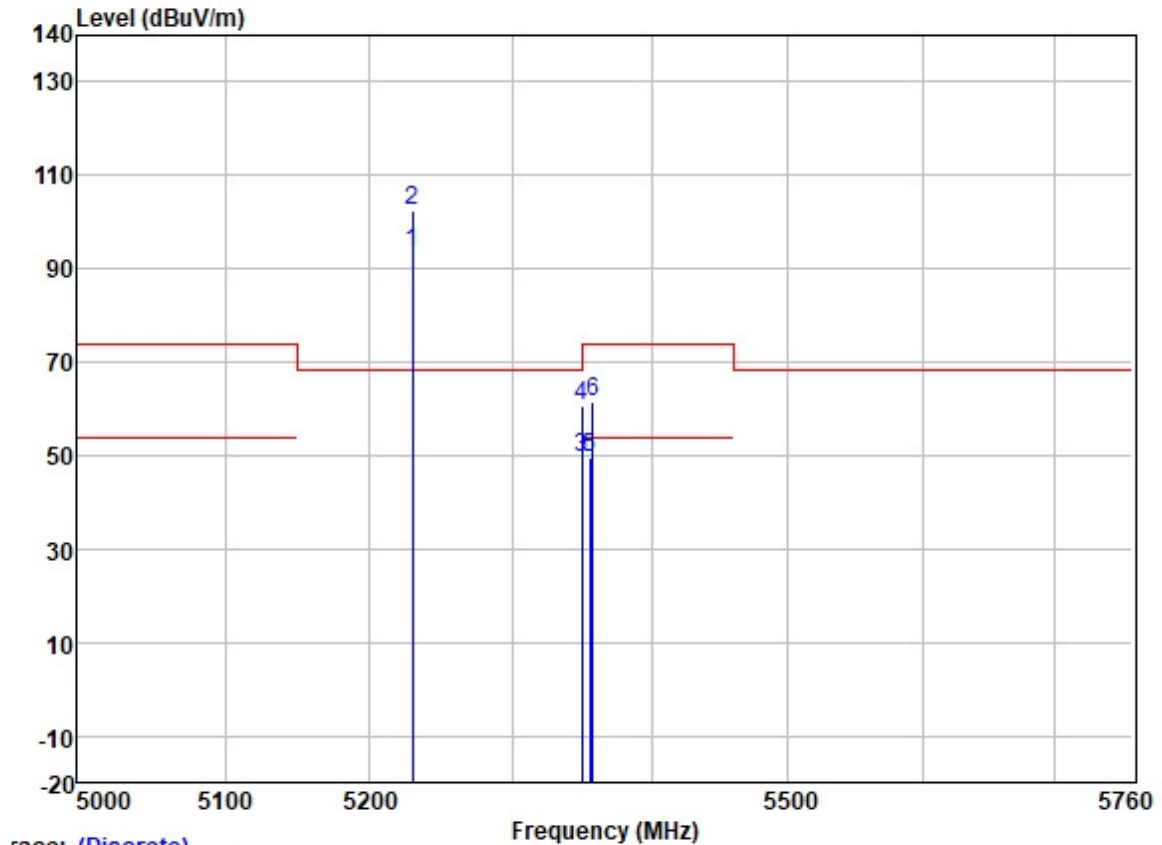
Test Mode: 00; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5230.000	93.38	31.74	5.70	36.87	93.95	-----	-----	HORIZONTAL Average
2 *	5230.000	102.10	31.74	5.70	36.87	102.67	68.20	34.47	HORIZONTAL Peak
3	5350.020	48.59	31.77	6.05	36.88	49.53	54.00	-4.47	HORIZONTAL Average
4	5350.020	59.44	31.77	6.05	36.88	60.38	74.00	-13.62	HORIZONTAL Peak
5	5352.208	60.91	31.77	6.05	36.88	61.85	74.00	-12.15	HORIZONTAL Peak
6	5355.616	48.72	31.78	6.03	36.88	49.65	54.00	-4.35	HORIZONTAL Average

Test Mode: 00; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 40MHz; Channel: High



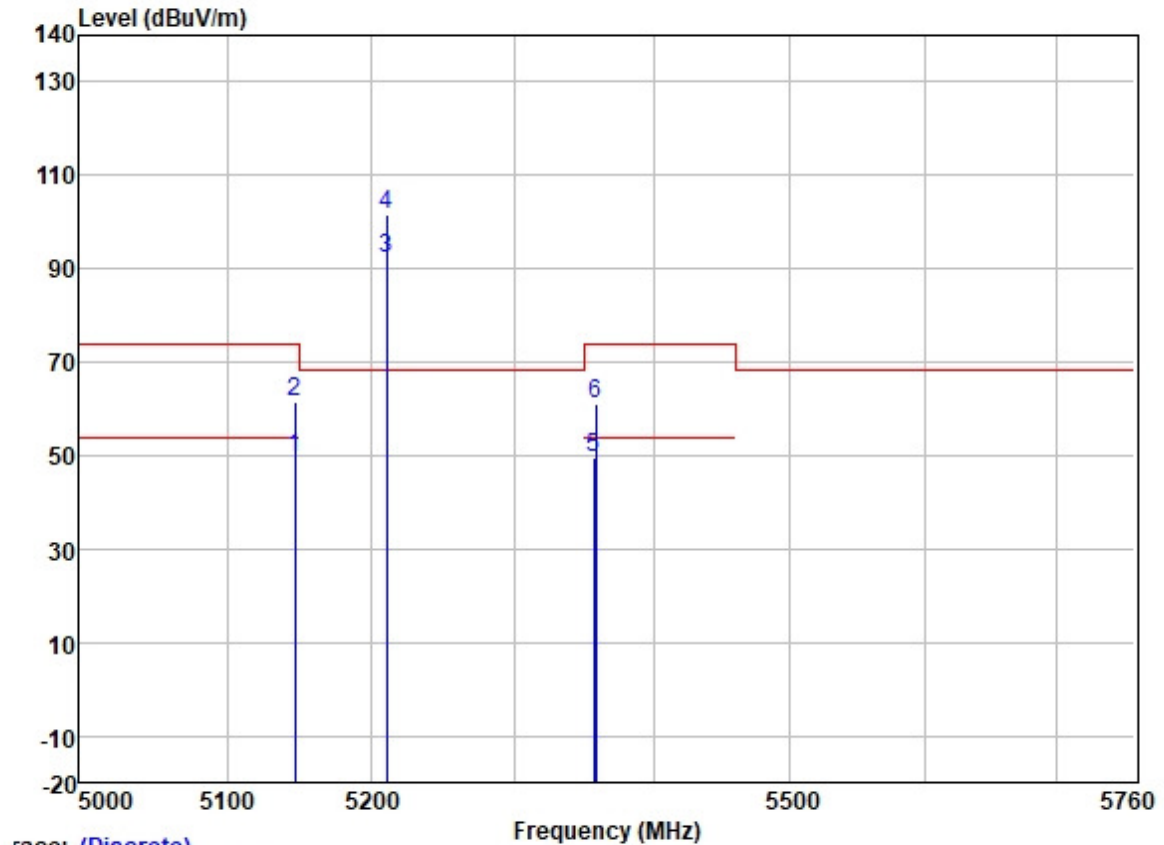
race: (Discrete)	Frequency (MHz)									
	Freq	ReadAntenna	Cable	Preamp		Limit	Over	Pol/Phase	Remark	
		Level	Factor	Loss	Factor	Level	Line			Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5230.000	92.76	31.74	5.70	36.87	93.33	-----	-----	VERTICAL	Average
2 *	5230.000	101.69	31.74	5.70	36.87	102.26	68.20	34.06	VERTICAL	Peak
3	5350.020	48.48	31.77	6.05	36.88	49.42	54.00	-4.58	VERTICAL	Average
4	5350.020	59.71	31.77	6.05	36.88	60.65	74.00	-13.35	VERTICAL	Peak
5	5355.778	48.64	31.78	6.03	36.88	49.57	54.00	-4.43	VERTICAL	Average
6	5357.889	60.77	31.78	6.03	36.88	61.70	74.00	-12.30	VERTICAL	Peak



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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle



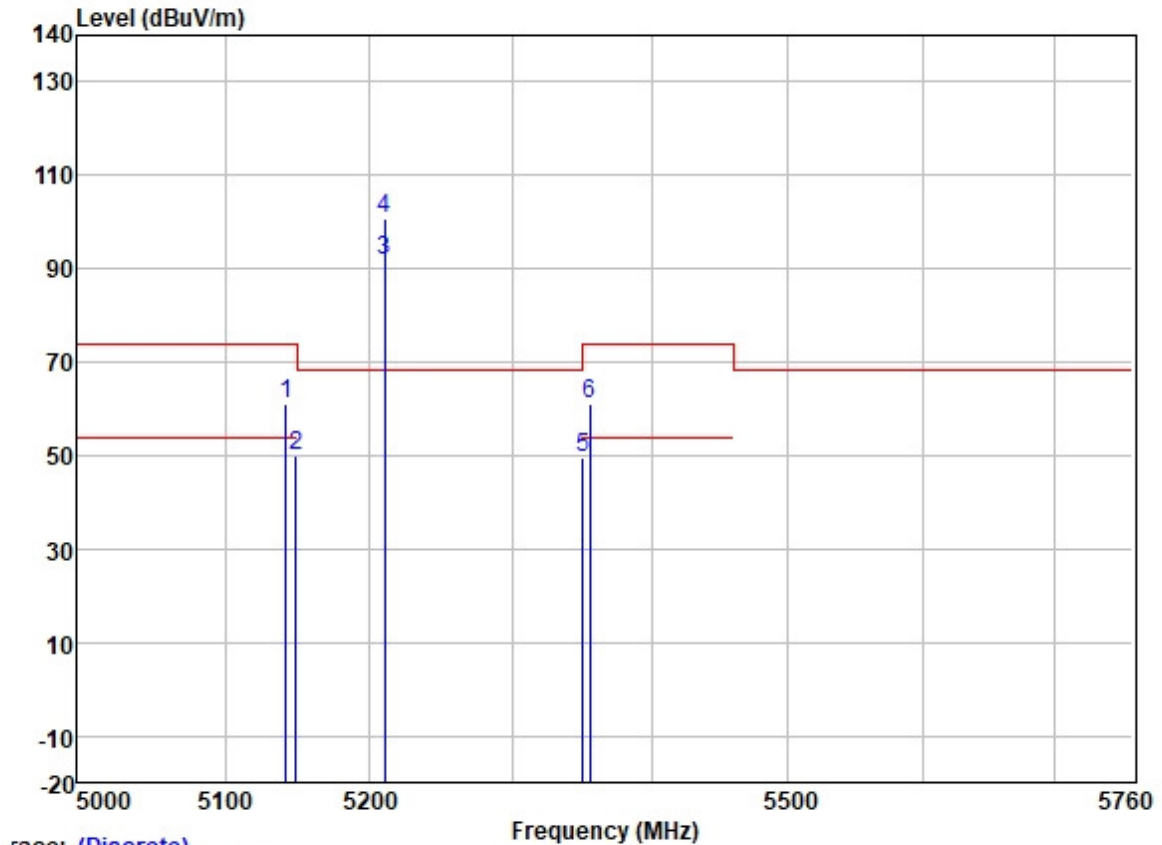
race: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5146.875	49.08	31.72	5.62	36.86	49.56	54.00	-4.44	HORIZONTAL Average
2	5146.875	60.95	31.72	5.62	36.86	61.43	74.00	-12.57	HORIZONTAL Peak
3	5210.000	91.65	31.74	5.65	36.87	92.17	-----	-----	HORIZONTAL Average
4 *	5210.000	100.87	31.74	5.65	36.87	101.39	68.20	33.19	HORIZONTAL Peak
5	5356.803	48.64	31.78	6.03	36.88	49.57	54.00	-4.43	HORIZONTAL Average
6	5358.401	60.09	31.78	6.03	36.88	61.02	74.00	-12.98	HORIZONTAL Peak



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Test Mode: 00; Polarity: Vertical; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: middle

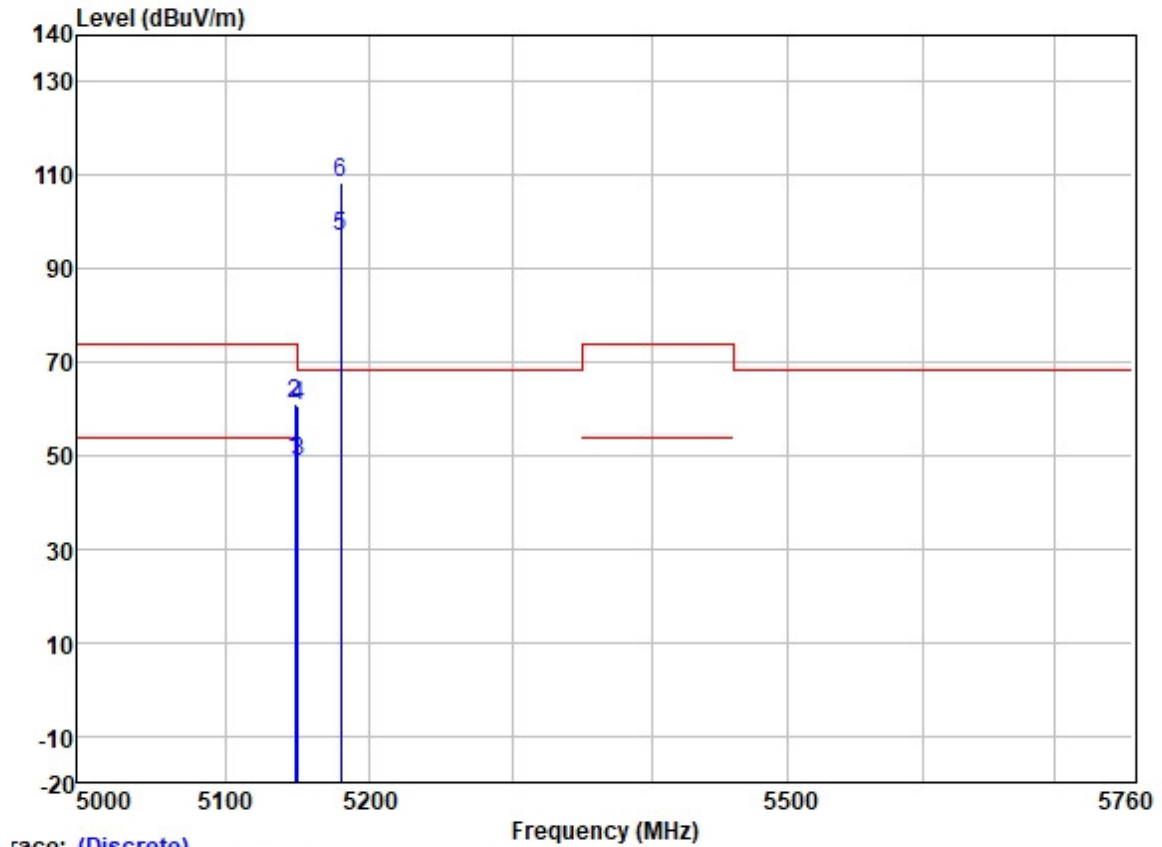


	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5142.014	60.59	31.72	5.62	36.86	61.07	74.00	-12.93	VERTICAL
2	5148.667	49.32	31.72	5.62	36.86	49.80	54.00	-4.20	VERTICAL
3	5210.000	91.24	31.74	5.65	36.87	91.76	-----	-----	VERTICAL
4 *	5210.000	100.28	31.74	5.65	36.87	100.80	68.20	32.60	VERTICAL
5	5350.680	48.69	31.77	6.05	36.88	49.63	54.00	-4.37	VERTICAL
6	5355.471	59.95	31.78	6.03	36.88	60.88	74.00	-13.12	VERTICAL



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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax; Bandwidth: 20MHz; Channel: Low



Trace: (Discrete)

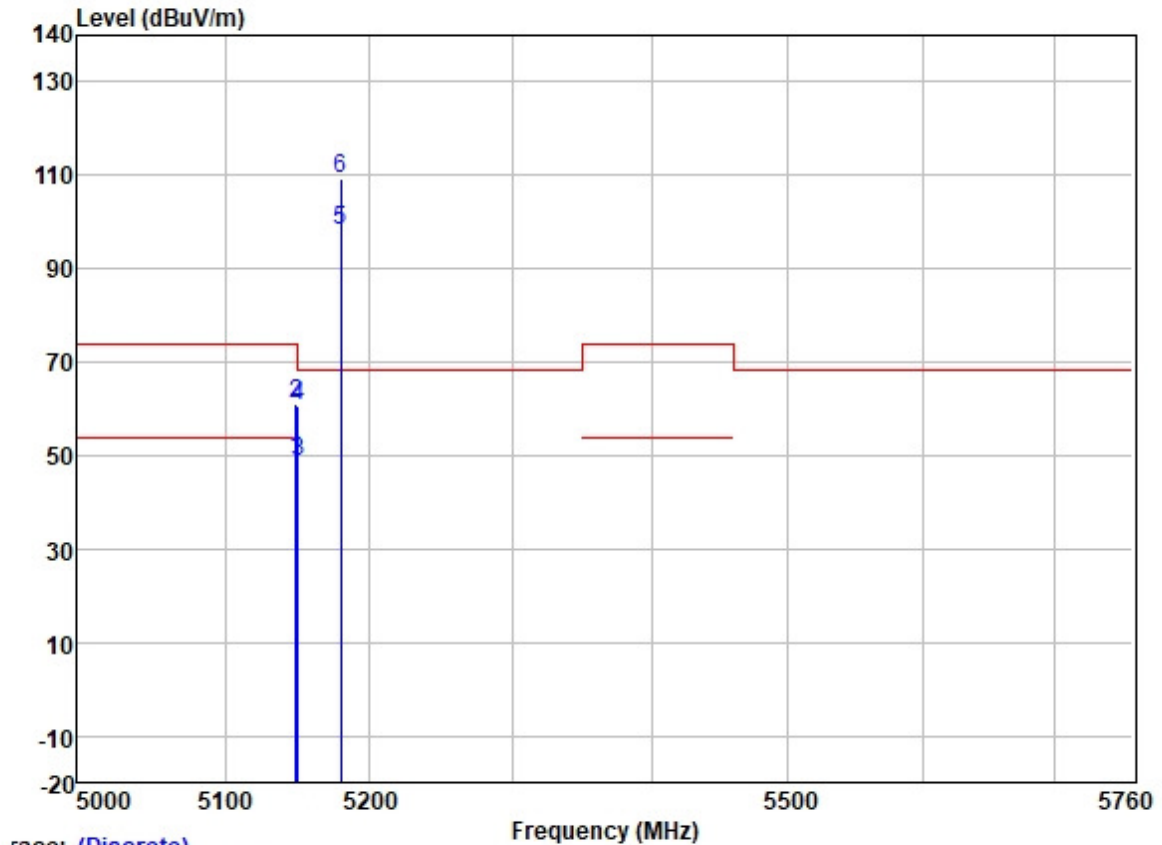
	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5147.958	48.50	31.72	5.62	36.86	48.98	54.00	-5.02	HORIZONTAL Average
2	5147.958	60.61	31.72	5.62	36.86	61.09	74.00	-12.91	HORIZONTAL Peak
3	5149.980	48.27	31.72	5.62	36.86	48.75	54.00	-5.25	HORIZONTAL Average
4	5149.980	60.17	31.72	5.62	36.86	60.65	74.00	-13.35	HORIZONTAL Peak
5	5180.000	96.51	31.73	5.61	36.87	96.98	-----	-----	HORIZONTAL Average
6 *	5180.000	107.95	31.73	5.61	36.87	108.42	68.20	40.22	HORIZONTAL Peak



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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:Low



race: (Discrete)

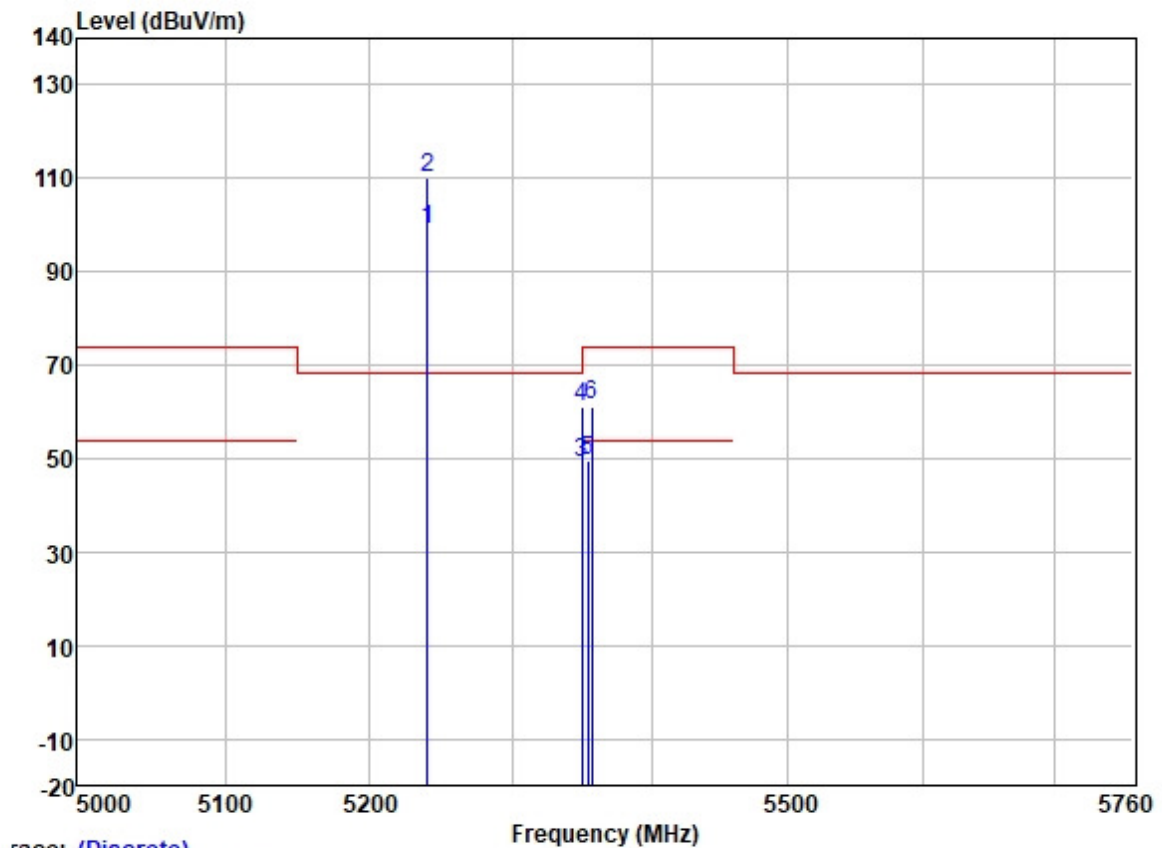
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5148.657	48.50	31.72	5.62	36.86	48.98	54.00	-5.02	VERTICAL Average
2	5148.657	60.64	31.72	5.62	36.86	61.12	74.00	-12.88	VERTICAL Peak
3	5149.980	48.22	31.72	5.62	36.86	48.70	54.00	-5.30	VERTICAL Average
4	5149.980	60.10	31.72	5.62	36.86	60.58	74.00	-13.42	VERTICAL Peak
5	5180.000	97.62	31.73	5.61	36.87	98.09	-----	-----	VERTICAL Average
6 *	5180.000	108.89	31.73	5.61	36.87	109.36	68.20	41.16	VERTICAL Peak



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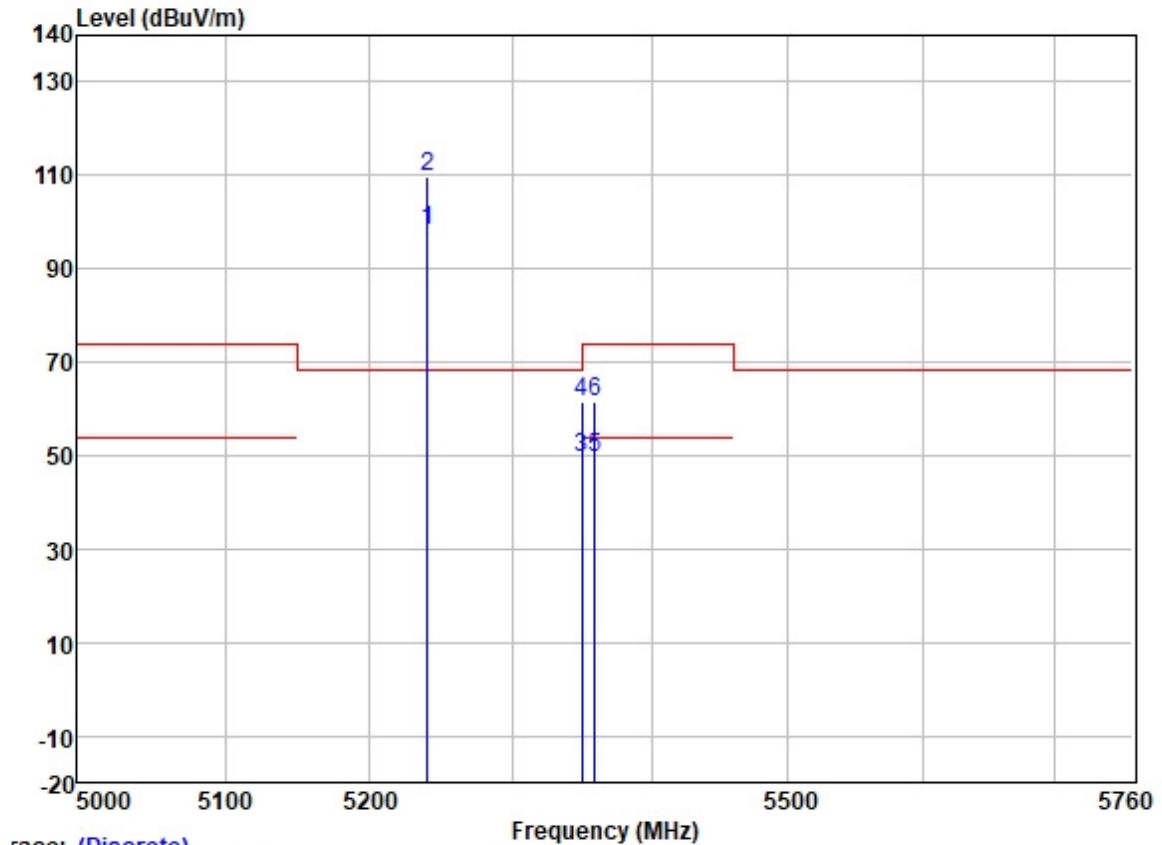
Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax; Bandwidth: 20MHz; Channel: High



Trace: (Discrete)

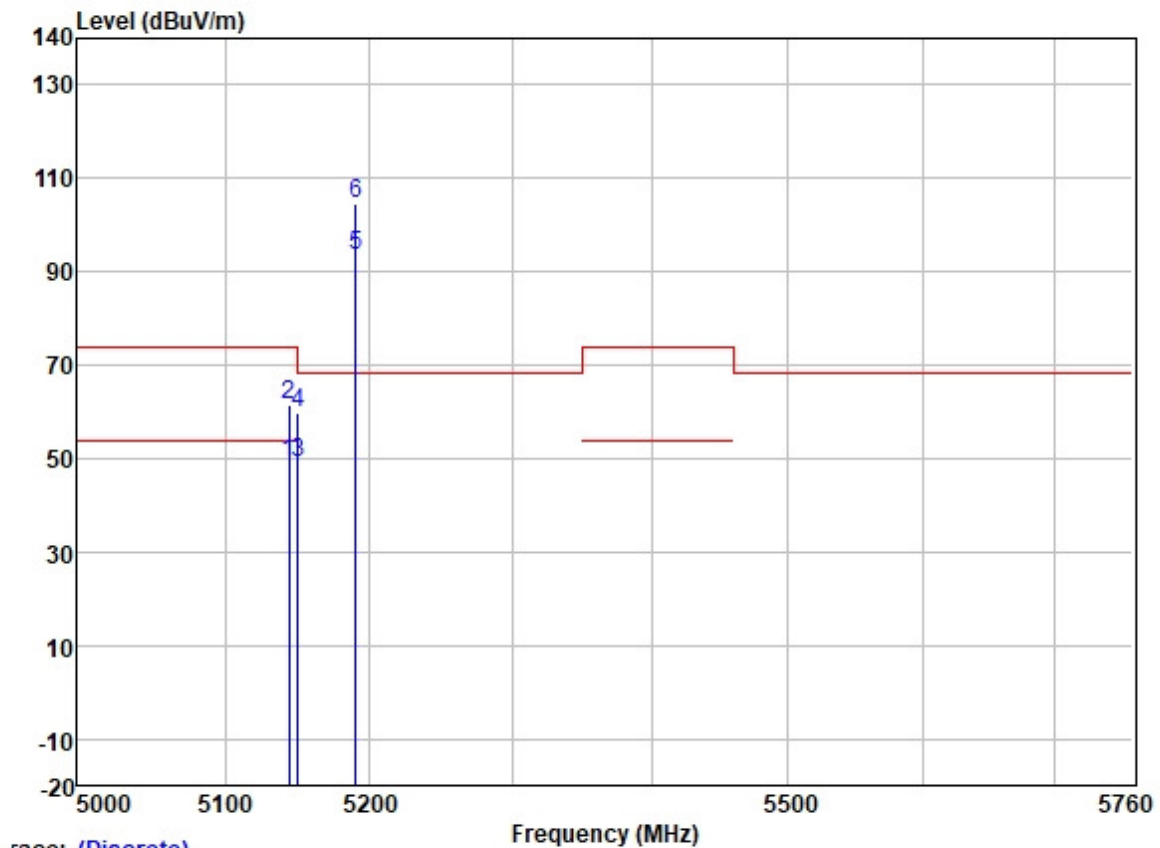
		ReadAntenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5240.000	98.22	31.75	5.74	36.87	98.84	-----	-----	HORIZONTAL	Average
2 *	5240.000	109.36	31.75	5.74	36.87	109.98	68.20	41.78	HORIZONTAL	Peak
3	5350.020	48.32	31.77	6.05	36.88	49.26	54.00	-4.74	HORIZONTAL	Average
4	5350.020	60.25	31.77	6.05	36.88	61.19	74.00	-12.81	HORIZONTAL	Peak
5	5353.762	48.65	31.77	6.05	36.88	49.59	54.00	-4.41	HORIZONTAL	Average
6	5357.022	60.35	31.78	6.03	36.88	61.28	74.00	-12.72	HORIZONTAL	Peak

Test Mode: 00; Polarity: Vertical; Modulation: 802.11ax; Bandwidth: 20MHz; Channel: High



		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5240.000	97.51	31.75	5.74	36.87	98.13	-----	-----	VERTICAL	Average
2 *	5240.000	109.12	31.75	5.74	36.87	109.74	68.20	41.54	VERTICAL	Peak
3	5350.020	48.47	31.77	6.05	36.88	49.41	54.00	-4.59	VERTICAL	Average
4	5350.020	60.36	31.77	6.05	36.88	61.30	74.00	-12.70	VERTICAL	Peak
5	5358.865	48.68	31.78	6.03	36.88	49.61	54.00	-4.39	VERTICAL	Average
6	5358.865	60.57	31.78	6.03	36.88	61.50	74.00	-12.50	VERTICAL	Peak

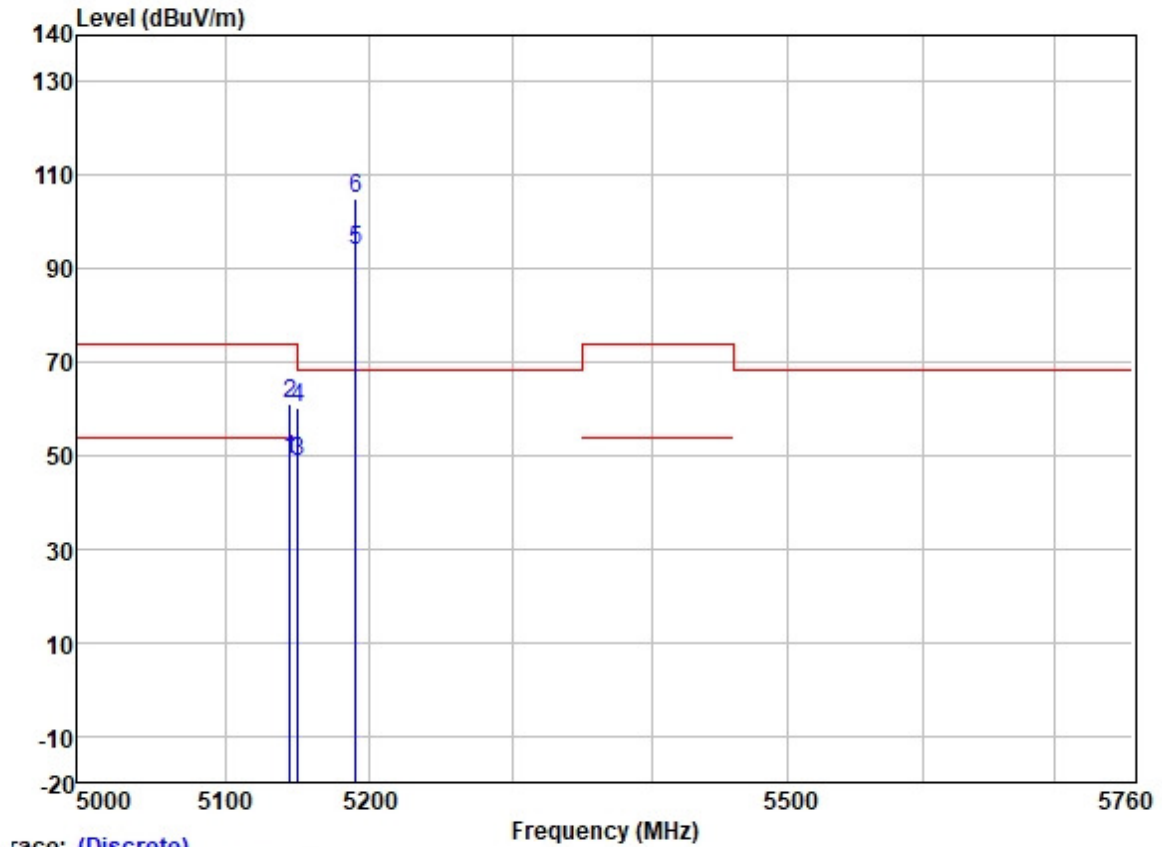
Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax; Bandwidth: 40MHz; Channel: Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5143.716	48.79	31.72	5.62	36.86	49.27	54.00	-4.73	HORIZONTAL Average
2	5143.716	61.11	31.72	5.62	36.86	61.59	74.00	-12.41	HORIZONTAL Peak
3	5149.980	48.44	31.72	5.62	36.86	48.92	54.00	-5.08	HORIZONTAL Average
4	5149.980	59.32	31.72	5.62	36.86	59.80	74.00	-14.20	HORIZONTAL Peak
5	5190.000	92.98	31.73	5.60	36.87	93.44	-----	-----	HORIZONTAL Average
6 *	5190.000	104.01	31.73	5.60	36.87	104.47	68.20	36.27	HORIZONTAL Peak

Test Mode: 00; Polarity: Vertical; Modulation: 802.11ax; Bandwidth: 40MHz; Channel: Low



Trace: (Discrete)

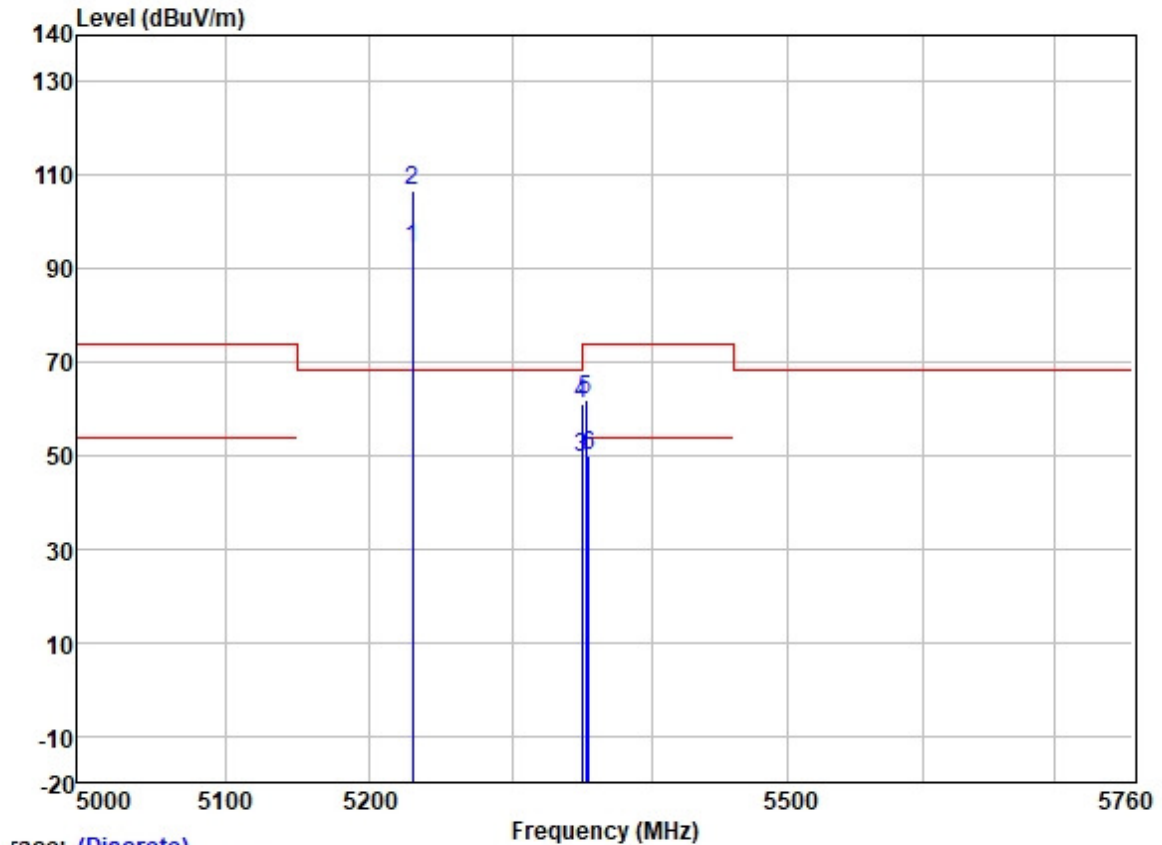
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5144.434	48.75	31.72	5.62	36.86	49.23	54.00	-4.77	VERTICAL Average
2	5144.434	60.59	31.72	5.62	36.86	61.07	74.00	-12.93	VERTICAL Peak
3	5149.980	48.30	31.72	5.62	36.86	48.78	54.00	-5.22	VERTICAL Average
4	5149.980	59.83	31.72	5.62	36.86	60.31	74.00	-13.69	VERTICAL Peak
5	5190.000	93.39	31.73	5.60	36.87	93.85	-----	-----	VERTICAL Average
6 *	5190.000	104.38	31.73	5.60	36.87	104.84	68.20	36.64	VERTICAL Peak



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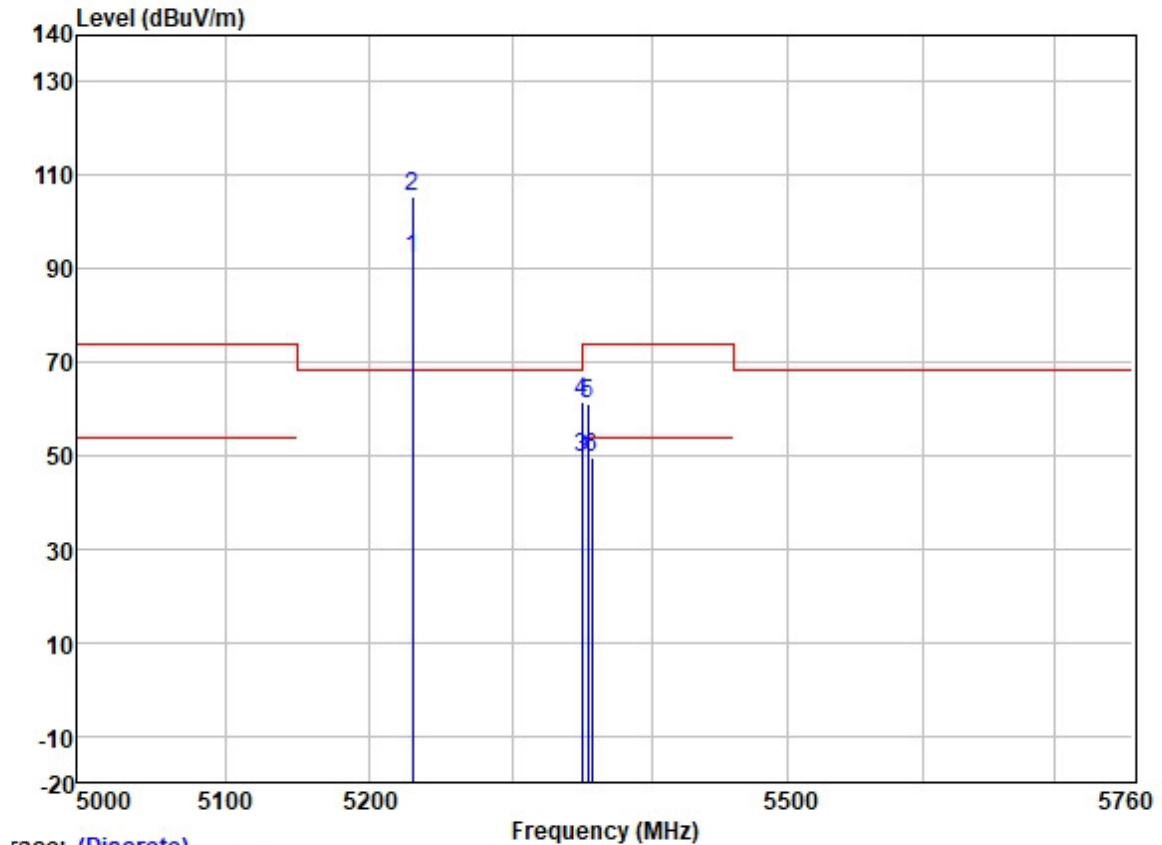
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:High



		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5230.000	93.74	31.74	5.70	36.87	94.31	-----	-----	HORIZONTAL	Average
2 *	5230.000	105.95	31.74	5.70	36.87	106.52	68.20	38.32	HORIZONTAL	Peak
3	5350.020	48.54	31.77	6.05	36.88	49.48	54.00	-4.52	HORIZONTAL	Average
4	5350.020	60.12	31.77	6.05	36.88	61.06	74.00	-12.94	HORIZONTAL	Peak
5	5352.695	60.94	31.77	6.05	36.88	61.88	74.00	-12.12	HORIZONTAL	Peak
6	5354.480	48.88	31.78	6.03	36.88	49.81	54.00	-4.19	HORIZONTAL	Average

Test Mode: 00; Polarity: Vertical; Modulation: 802.11ax; Bandwidth: 40MHz; Channel: High

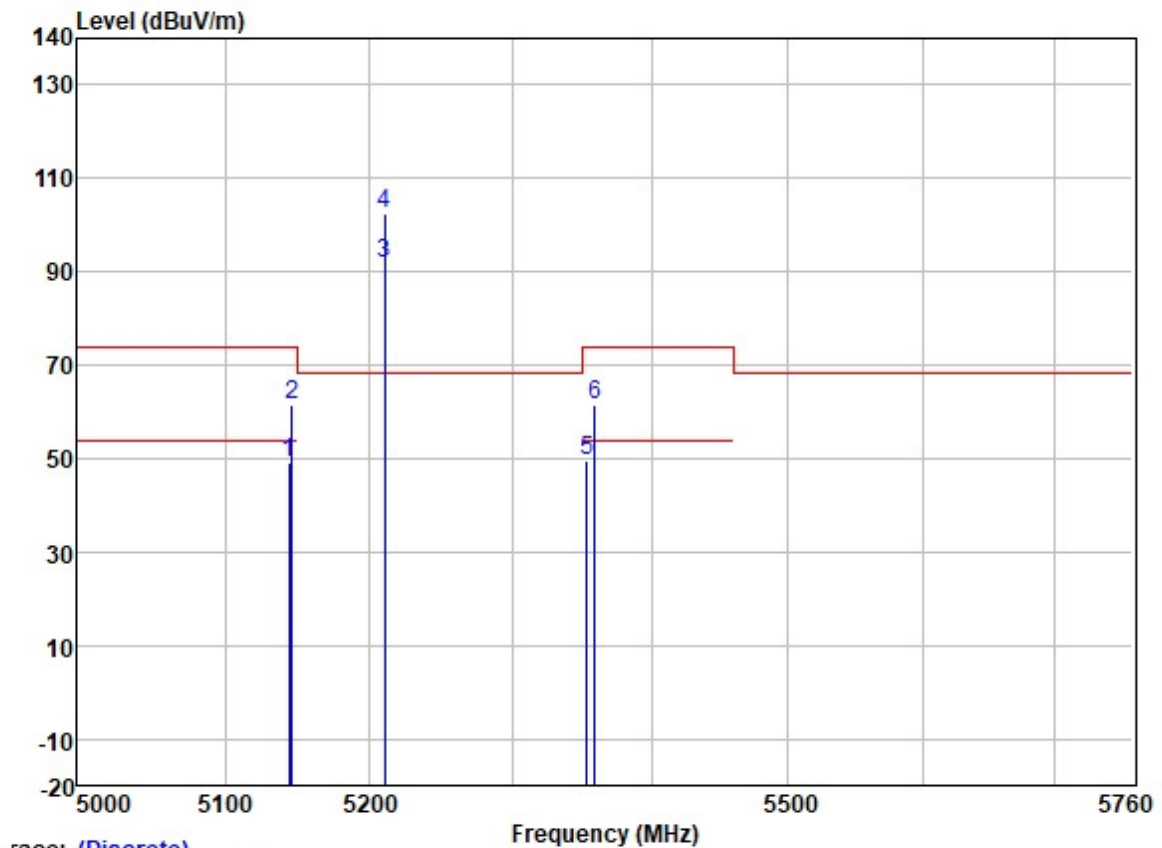


		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5230.000	91.56	31.74	5.70	36.87	92.13	-----	-----	VERTICAL	Average
2 *	5230.000	105.07	31.74	5.70	36.87	105.64	68.20	37.44	VERTICAL	Peak
3	5350.020	48.45	31.77	6.05	36.88	49.39	54.00	-4.61	VERTICAL	Average
4	5350.020	60.55	31.77	6.05	36.88	61.49	74.00	-12.51	VERTICAL	Peak
5	5353.993	60.26	31.77	6.05	36.88	61.20	74.00	-12.80	VERTICAL	Peak
6	5357.077	48.64	31.78	6.03	36.88	49.57	54.00	-4.43	VERTICAL	Average



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Test Mode: 00; Polarity: Horizontal; Modulation: 802.11ax; Bandwidth: 80MHz; Channel: middle



race: (Discrete)

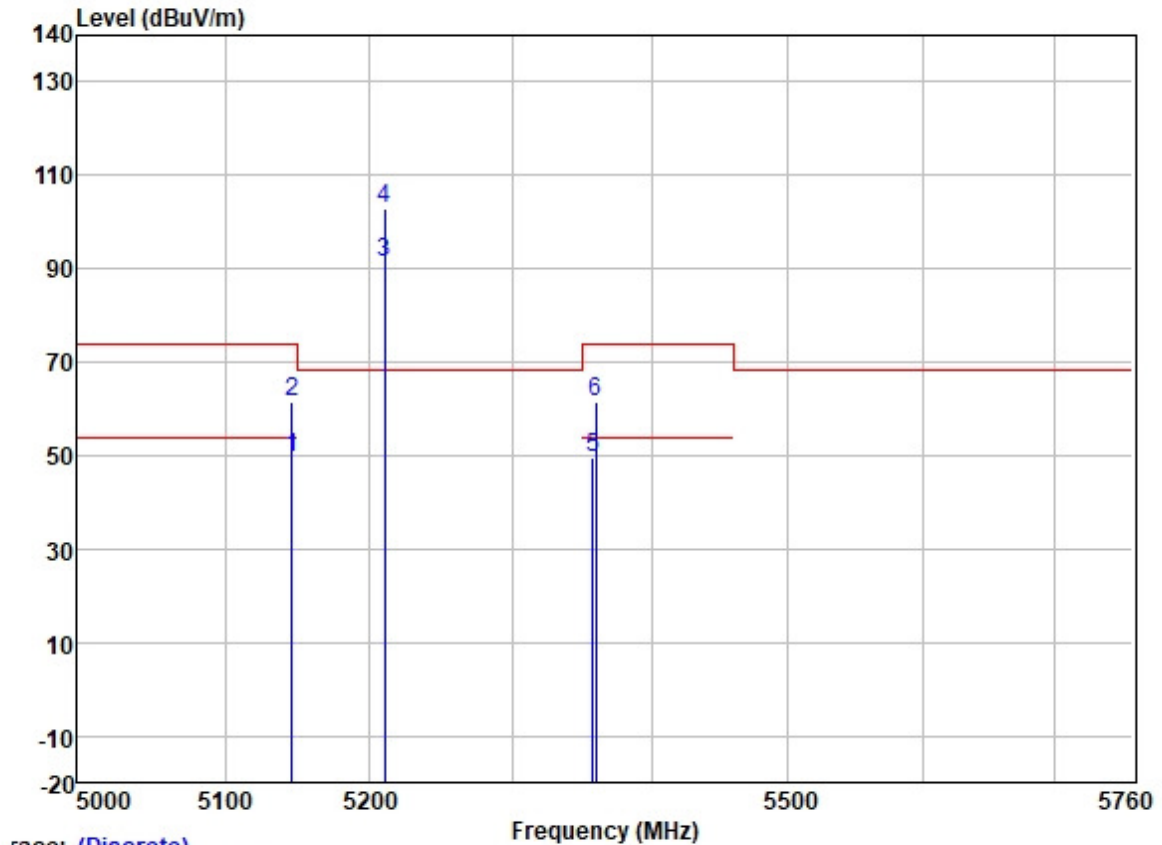
	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5143.549	48.81	31.72	5.62	36.86	49.29	54.00	-4.71	HORIZONTAL Average
2	5146.107	60.84	31.72	5.62	36.86	61.32	74.00	-12.68	HORIZONTAL Peak
3	5210.000	91.23	31.74	5.65	36.87	91.75	-----	-----	HORIZONTAL Average
4 *	5210.000	102.04	31.74	5.65	36.87	102.56	68.20	34.36	HORIZONTAL Peak
5	5353.075	48.58	31.77	6.05	36.88	49.52	54.00	-4.48	HORIZONTAL Average
6	5359.201	60.38	31.78	6.03	36.88	61.31	74.00	-12.69	HORIZONTAL Peak



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Test Mode: 00; Polarity: Vertical; Modulation: 802.11ax; Bandwidth: 80MHz; Channel: middle



	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5145.851	48.97	31.72	5.62	36.86	49.45	54.00	-4.55	VERTICAL	Average
2	5145.851	60.90	31.72	5.62	36.86	61.38	74.00	-12.62	VERTICAL	Peak
3	5210.000	91.05	31.74	5.65	36.87	91.57	-----	-----	VERTICAL	Average
4 *	5210.000	102.41	31.74	5.65	36.87	102.93	68.20	34.73	VERTICAL	Peak
5	5357.602	48.72	31.78	6.03	36.88	49.65	54.00	-4.35	VERTICAL	Average
6	5359.733	60.68	31.78	6.03	36.88	61.61	74.00	-12.39	VERTICAL	Peak



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8 Test Setup Photo

Refer to Appendix_SetupPhoto for GZCR2111021360AT.



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9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2111021360AT.

10 Appendix

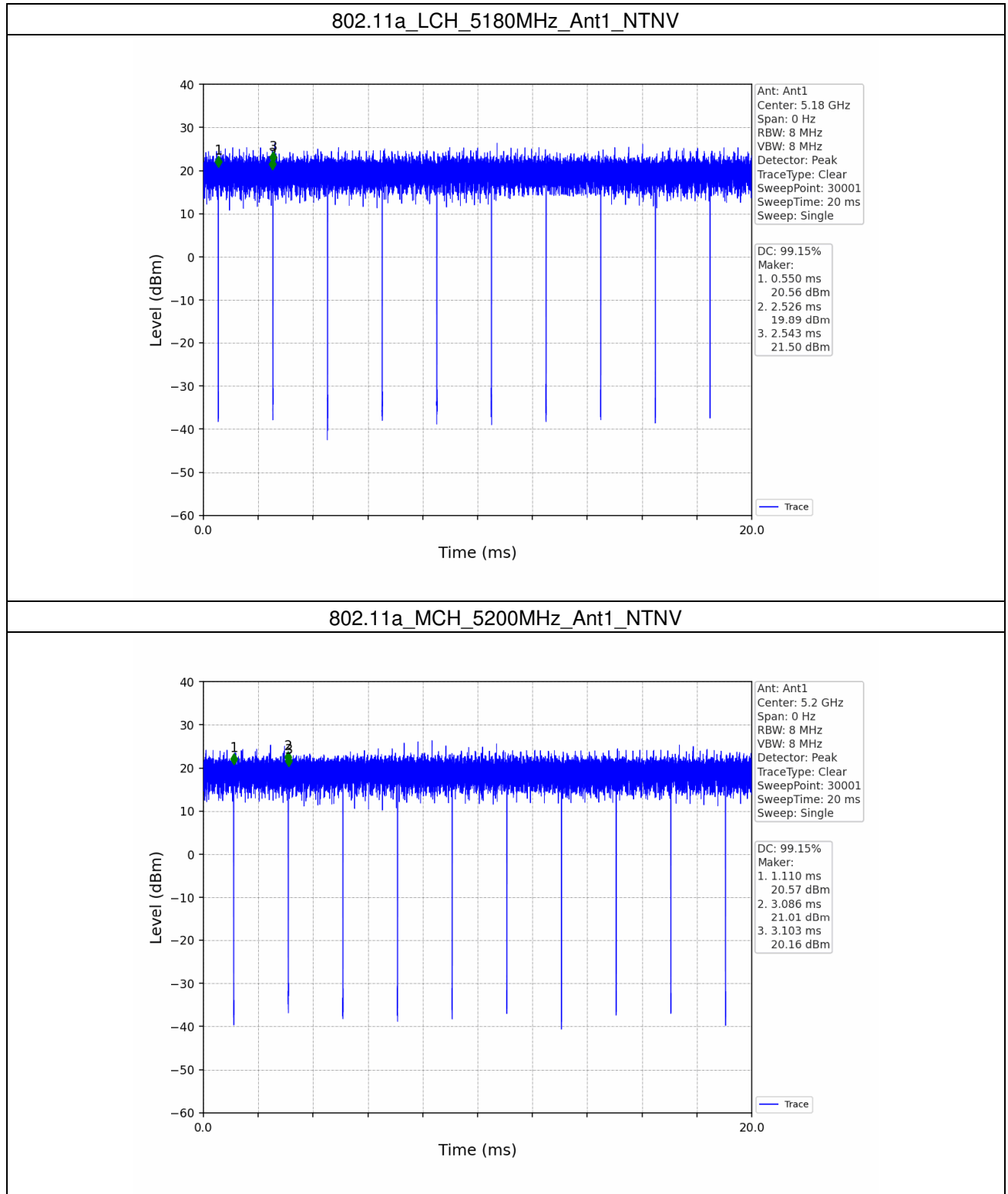
1. Duty Cycle

1.1 Ant1

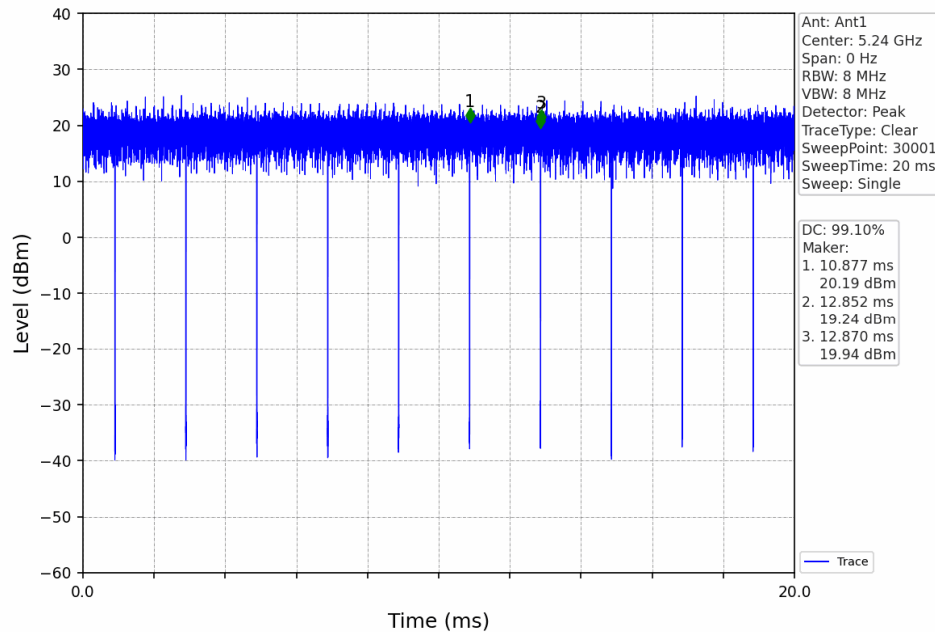
1.1.1 Test Result

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	1.976	1.993	99.15	0.04	0.00
		5200	/	/	1.976	1.993	99.15	0.04	0.00
		5240	/	/	1.975	1.993	99.10	0.04	0.07
802.11n (HT20)	MIMO	5180	/	/	5.428	5.446	99.67	0.01	0.04
		5200	/	/	5.428	5.446	99.67	0.01	0.04
		5240	/	/	1.976	1.993	99.15	0.04	0.03
802.11n (HT40)	MIMO	5190	/	/	5.426	5.444	99.67	0.01	0.04
		5230	/	/	5.426	5.444	99.67	0.01	0.04
802.11ac (VHT20)	MIMO	5180	/	/	5.426	5.444	99.67	0.01	0.04
		5200	/	/	5.428	5.446	99.67	0.01	0.04
		5240	/	/	5.428	5.446	99.67	0.01	0.04
802.11ac (VHT40)	MIMO	5190	/	/	5.426	5.445	99.65	0.02	0.03
		5230	/	/	5.426	5.444	99.67	0.01	0.04
802.11ac (VHT80)	MIMO	5210	/	/	5.426	5.443	99.69	0.01	0.03
802.11ax (HEW20)	MIMO	5180	RU242	Left	5.452	5.470	99.67	0.01	0.04
		5200	RU242	Left	5.452	5.470	99.67	0.01	0.04
		5240	RU242	Left	5.453	5.470	99.69	0.01	0.00
802.11ax (HEW40)	MIMO	5190	RU484	Left	5.450	5.468	99.67	0.01	0.04
		5230	RU484	Left	5.450	5.468	99.67	0.01	0.04
802.11ax (HEW80)	MIMO	5210	RU996	Left	5.450	5.468	99.67	0.01	0.04

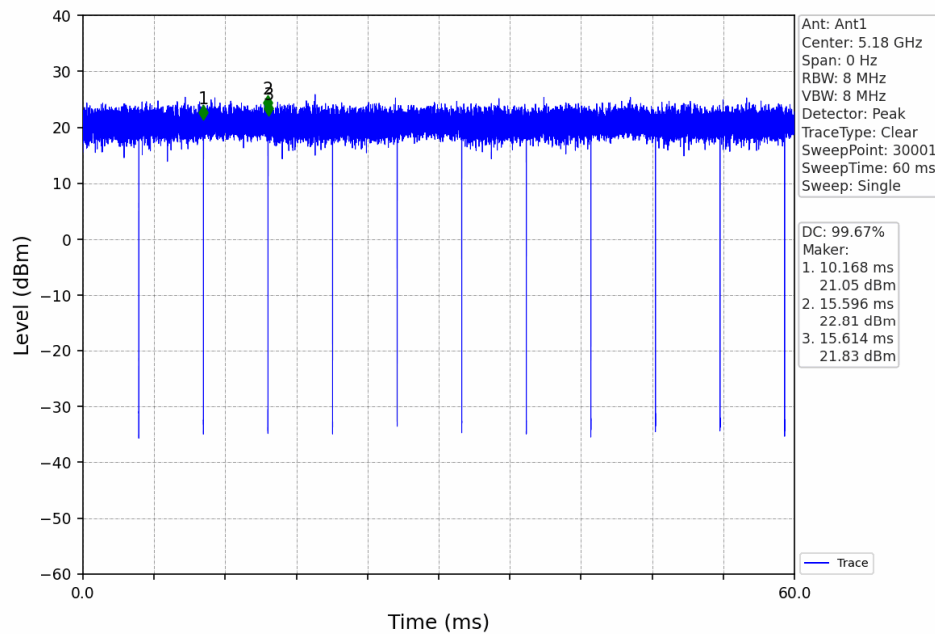
1.1.2 Test Graph



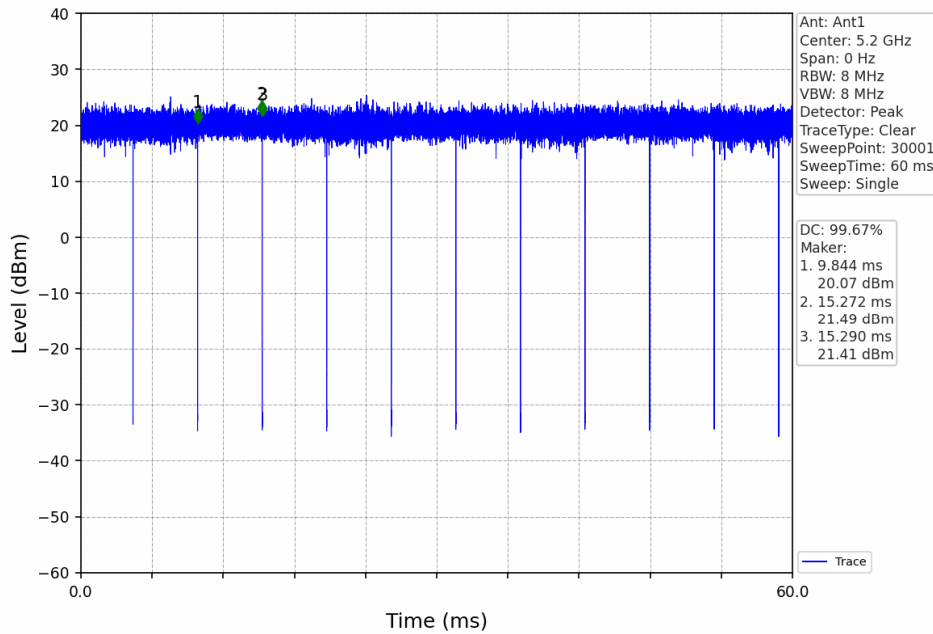
802.11a_HCH_5240MHz_Ant1_NTNV



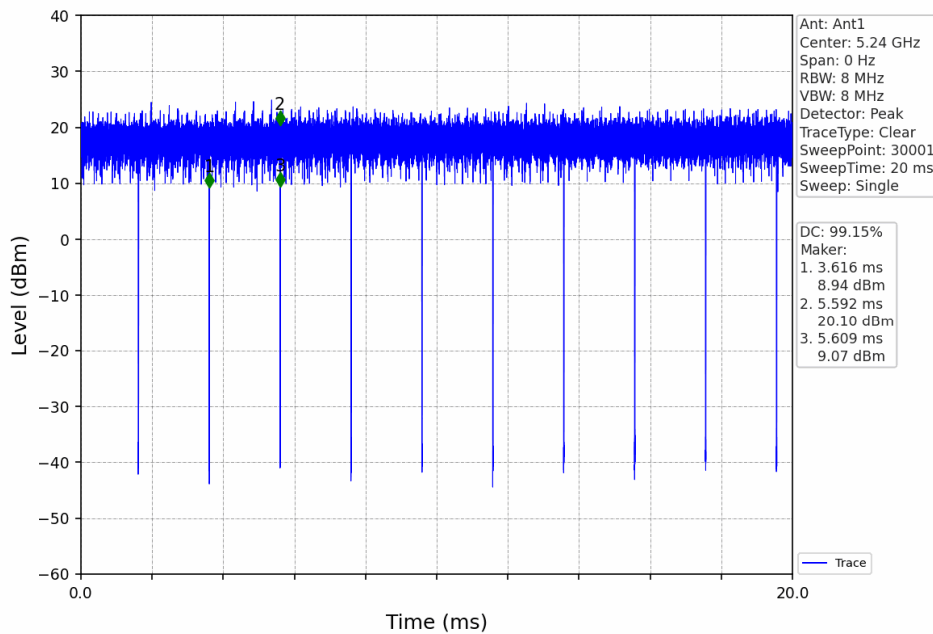
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



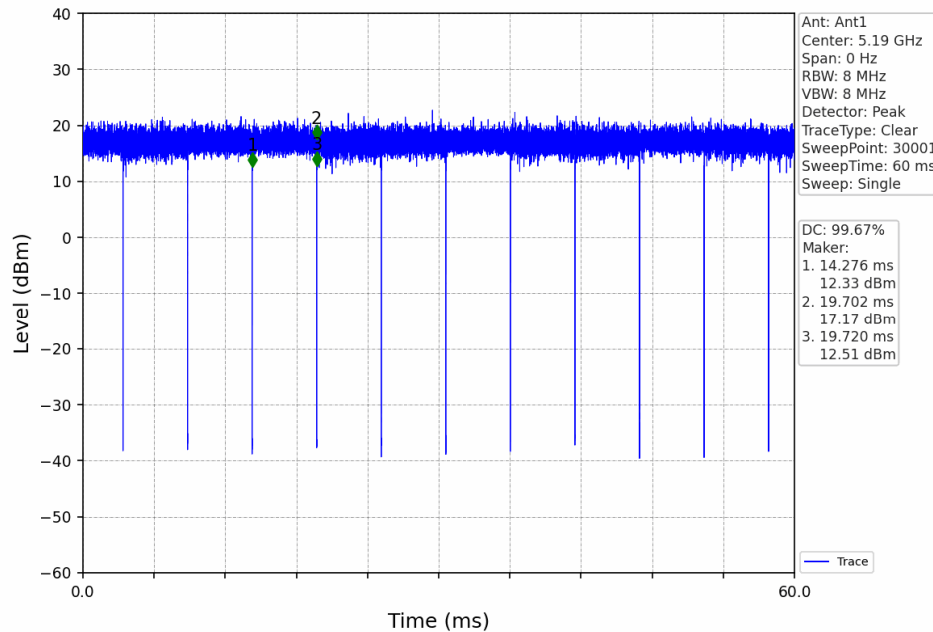
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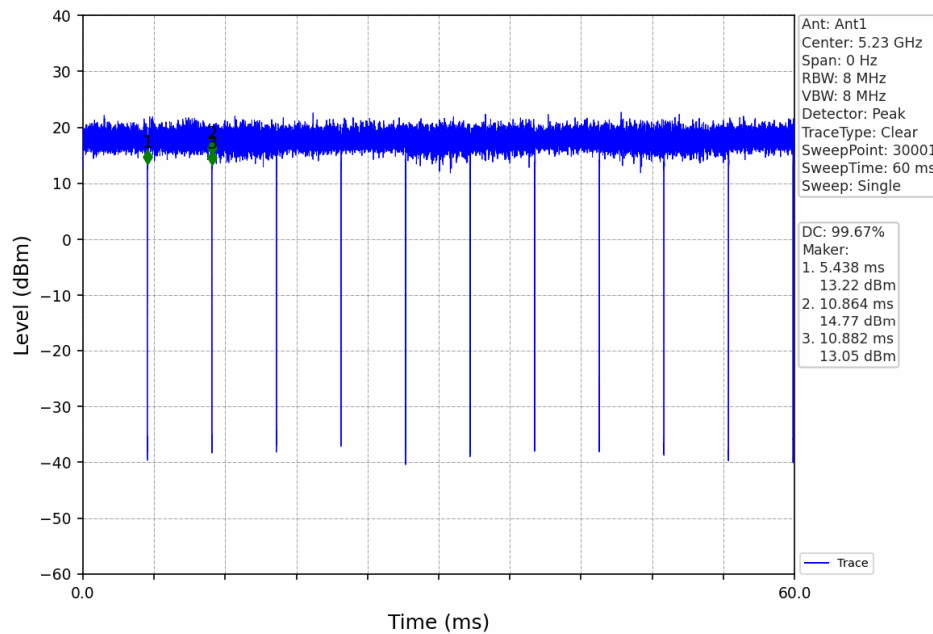
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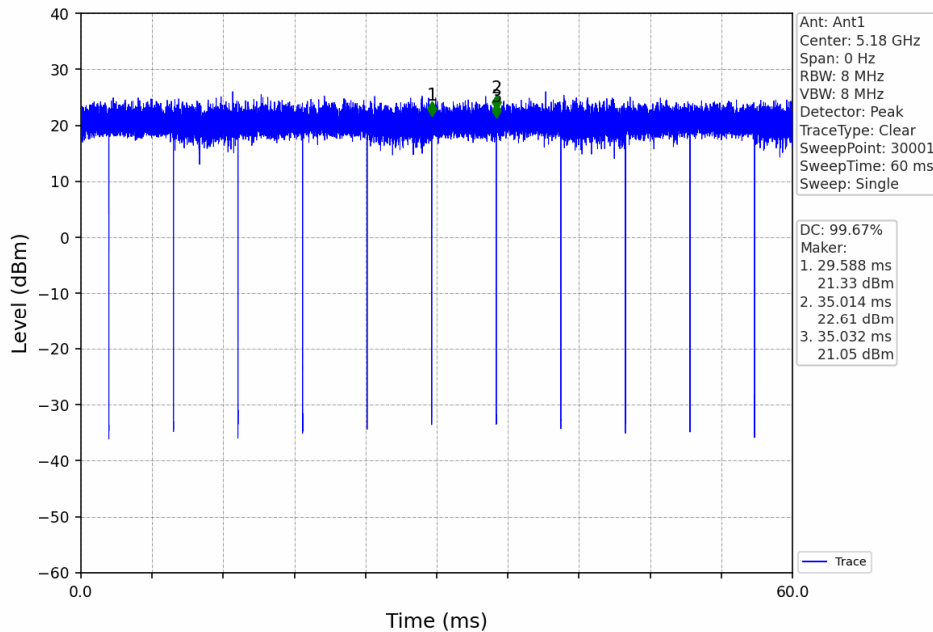
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



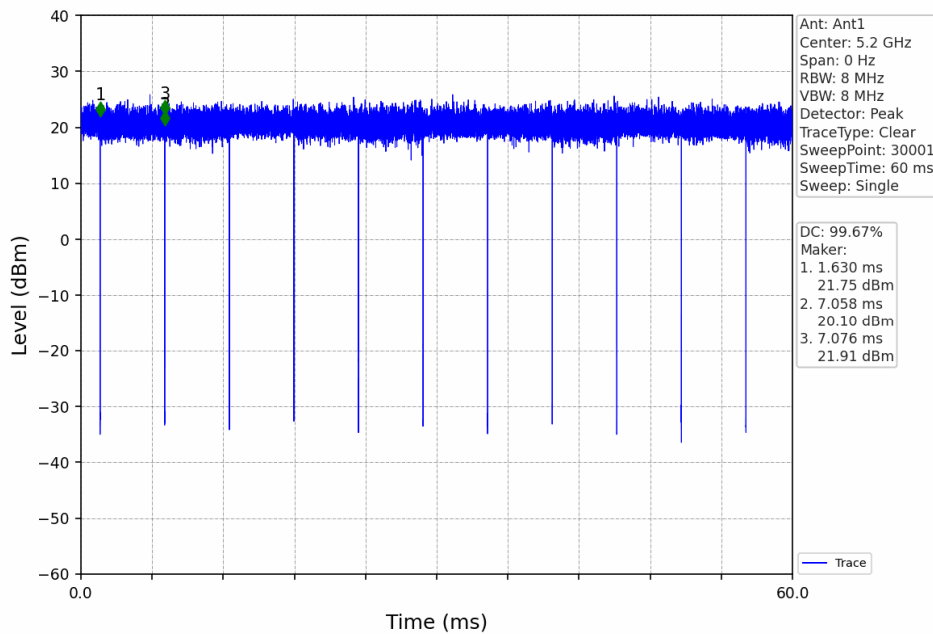
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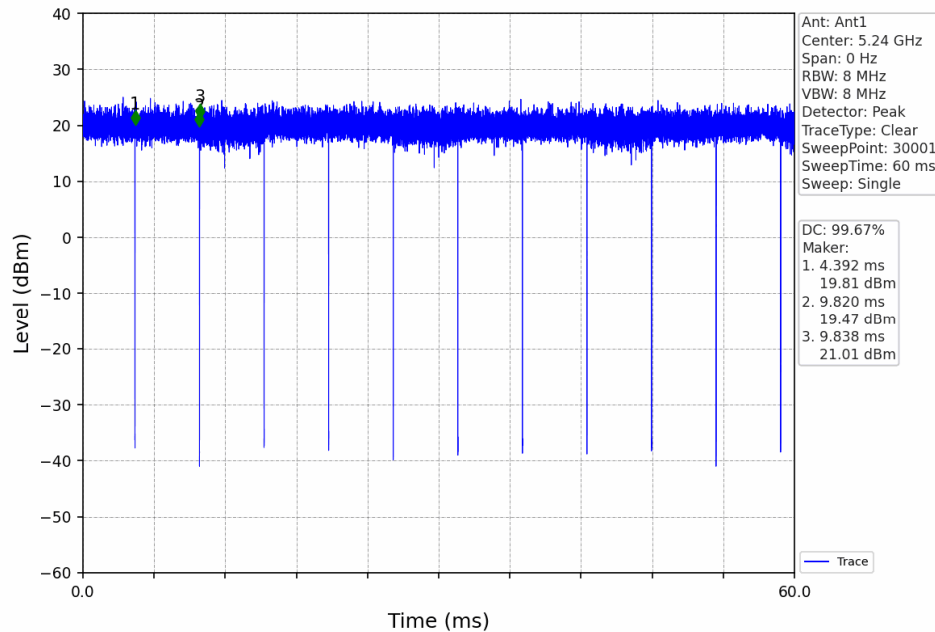
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



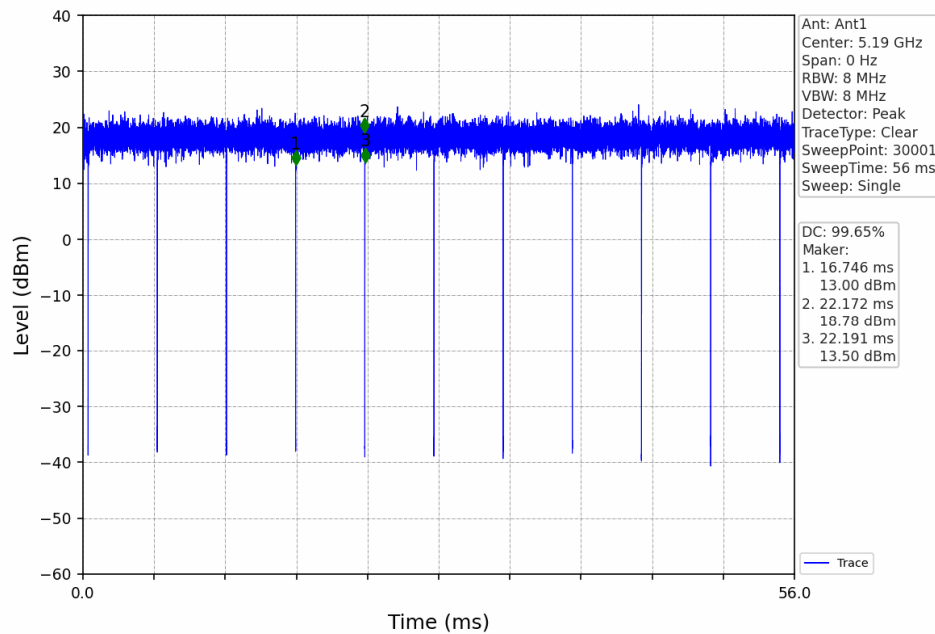
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



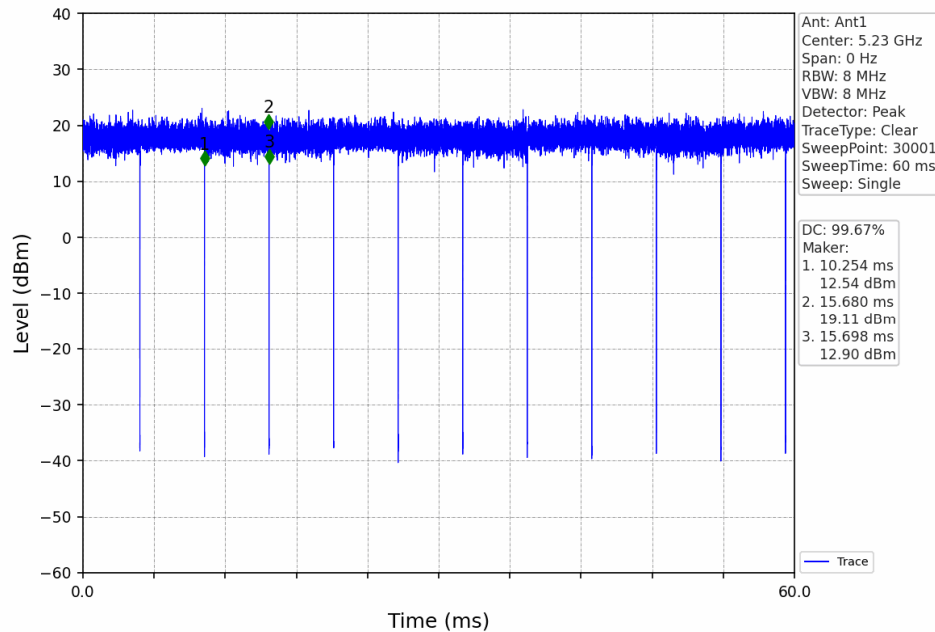
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



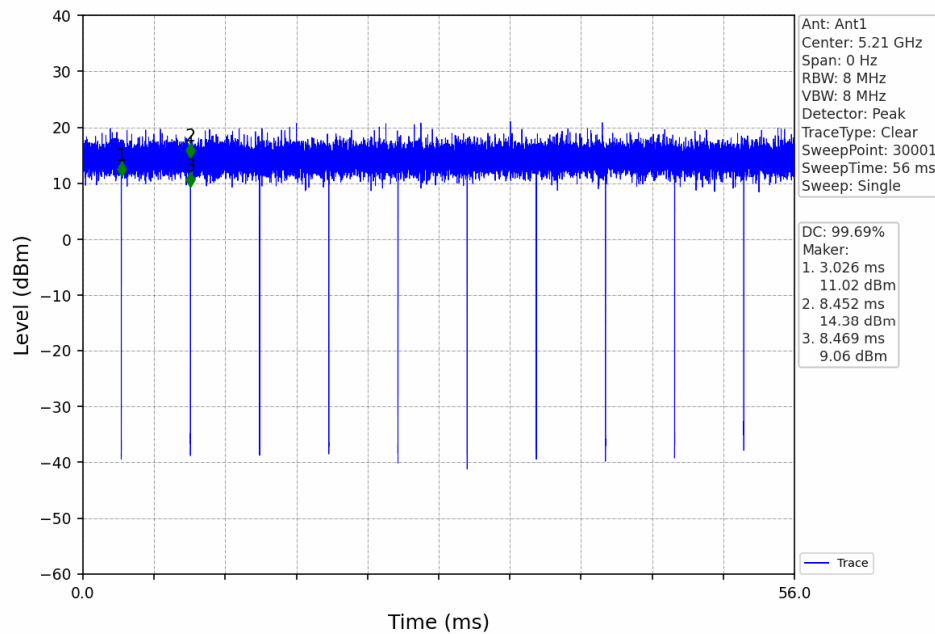
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



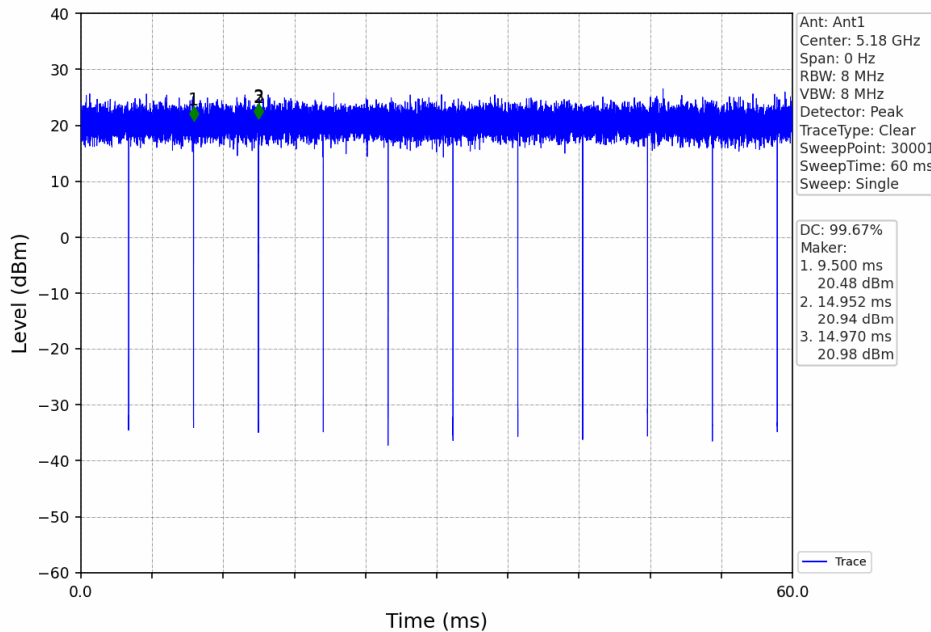
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



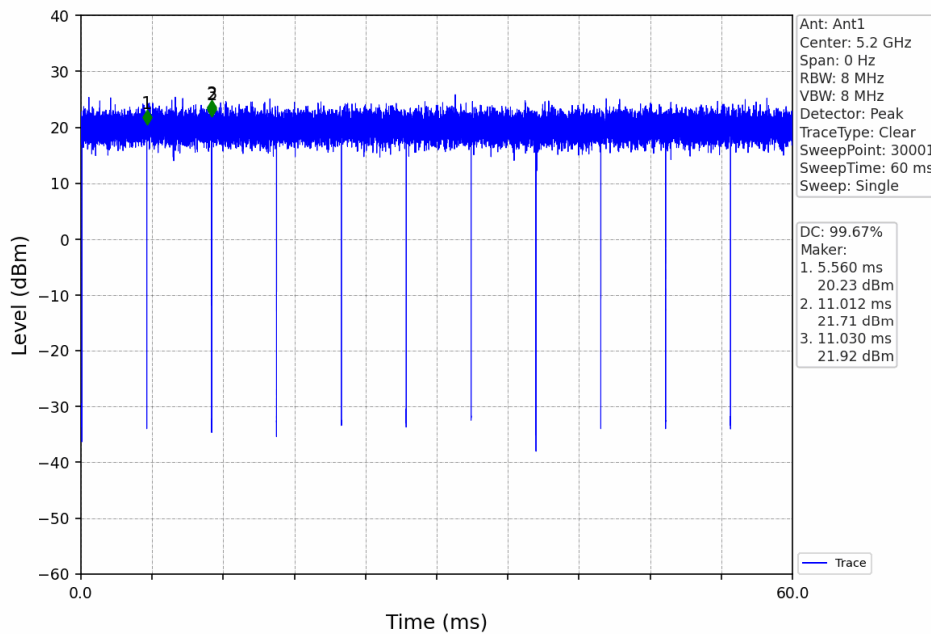
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



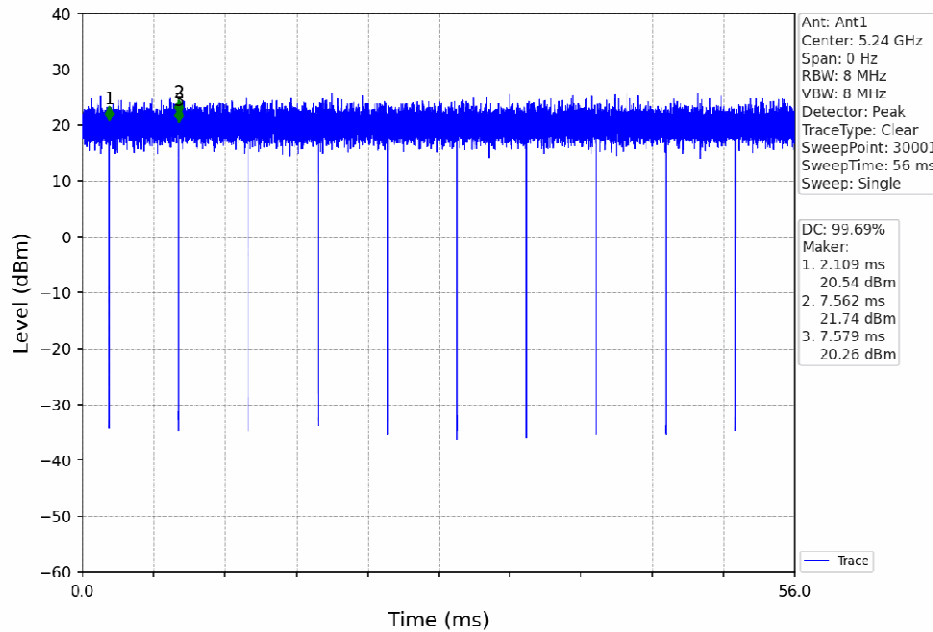
802.11ax(HEW20)_LCH_5180MHz_RU242_Left_Ant1_NTNV



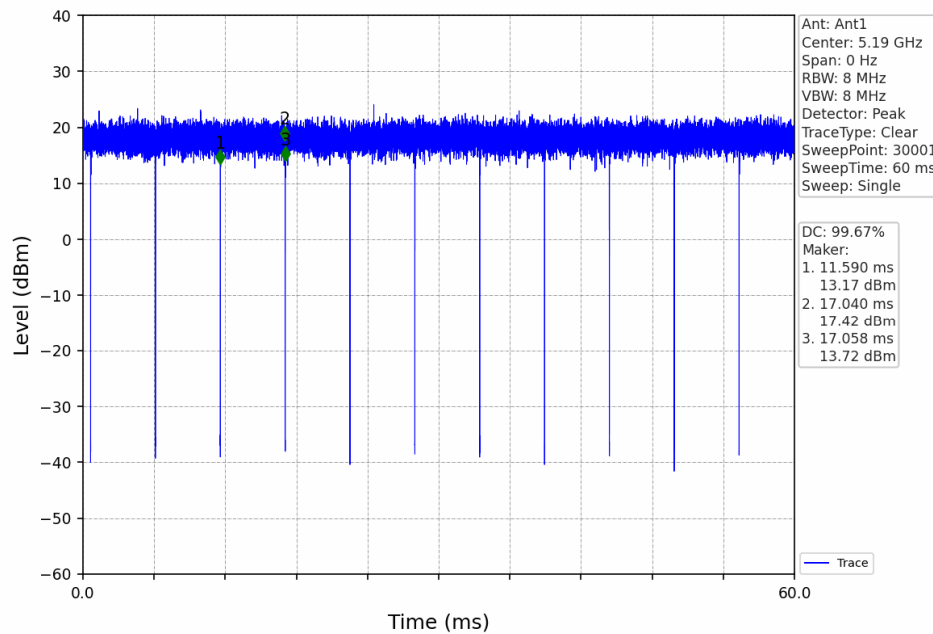
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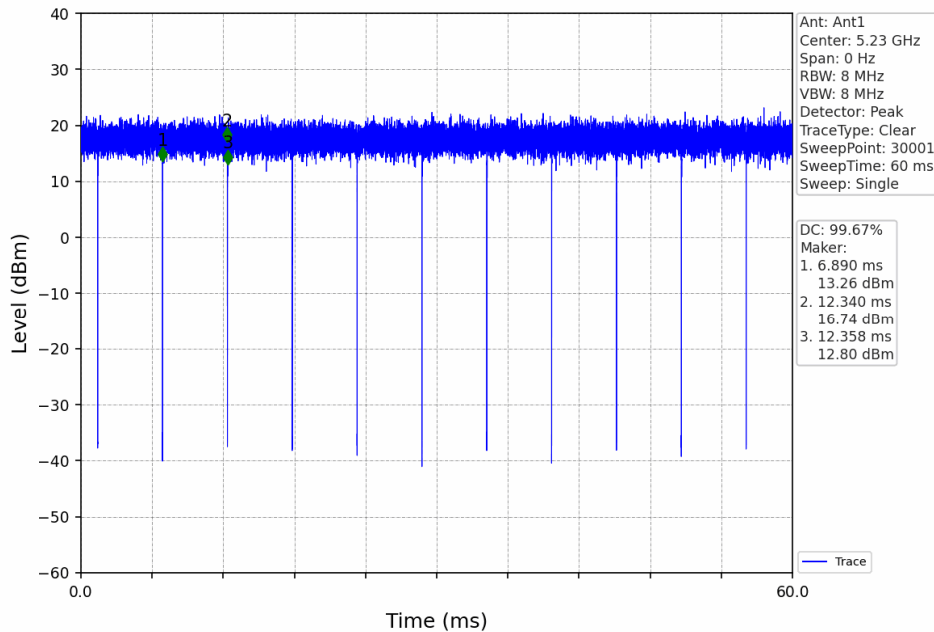
802.11ax(HEW20)_HCH_5240MHz_RU242_Left_Ant1_NTNV



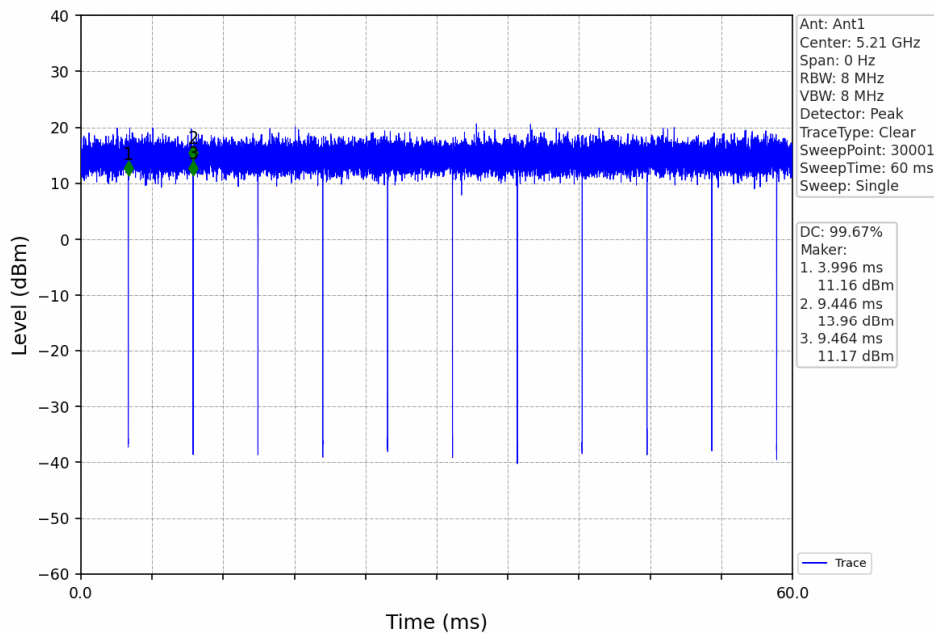
802.11ax(HEW40)_LCH_5190MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW40)_HCH_5230MHz_RU484_Left_Ant1_NTNV



802.11ax(HEW80)_MCH_5210MHz_RU996_Left_Ant1_NTNV



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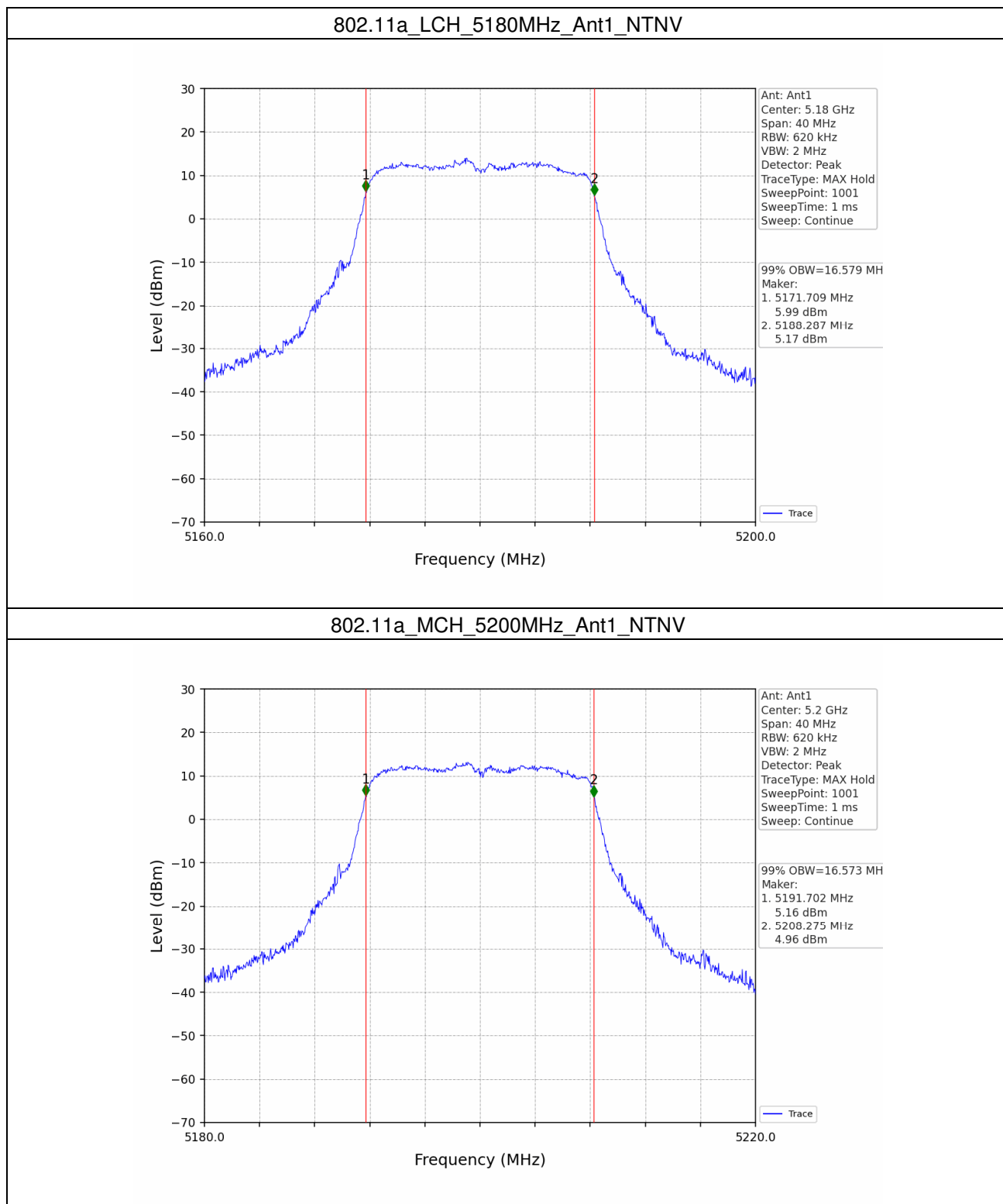
2. Bandwidth

2.1 OBW

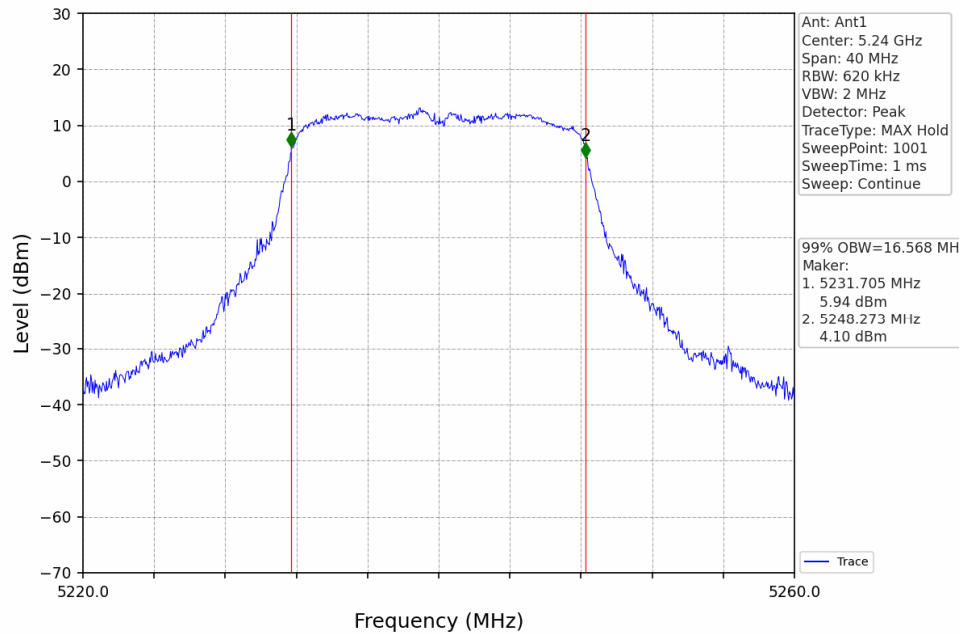
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	99% Occupied Bandwidth (MHz)	Verdict
						Result	
802.11a	SISO	5180	/	/	1	16.579	Pass
		5200	/	/	1	16.573	Pass
		5240	/	/	1	16.568	Pass
802.11n (HT20)	MIMO	5180	/	/	1	17.746	Pass
		5200	/	/	1	17.738	Pass
		5240	/	/	1	16.564	Pass
802.11n (HT40)	MIMO	5190	/	/	1	36.137	Pass
		5230	/	/	1	36.093	Pass
802.11ac (VHT20)	MIMO	5180	/	/	1	17.782	Pass
		5200	/	/	1	17.770	Pass
		5240	/	/	1	17.755	Pass
802.11ac (VHT40)	MIMO	5190	/	/	1	36.128	Pass
		5230	/	/	1	36.129	Pass
802.11ac (VHT80)	MIMO	5210	/	/	1	75.795	Pass
802.11ax (HEW20)	MIMO	5180	RU242	Left	1	19.019	Pass
		5200	RU242	Left	1	18.995	Pass
		5240	RU242	Left	1	19.042	Pass
802.11ax (HEW40)	MIMO	5190	RU484	Left	1	37.803	Pass
		5230	RU484	Left	1	37.824	Pass
802.11ax (HEW80)	MIMO	5210	RU996	Left	1	77.353	Pass

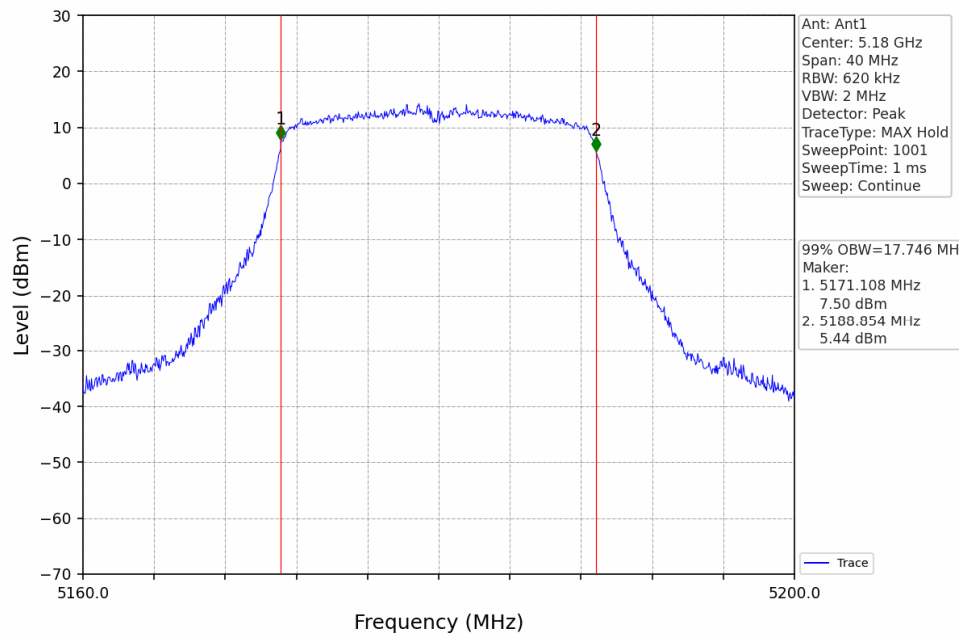
2.1.2 Test Graph



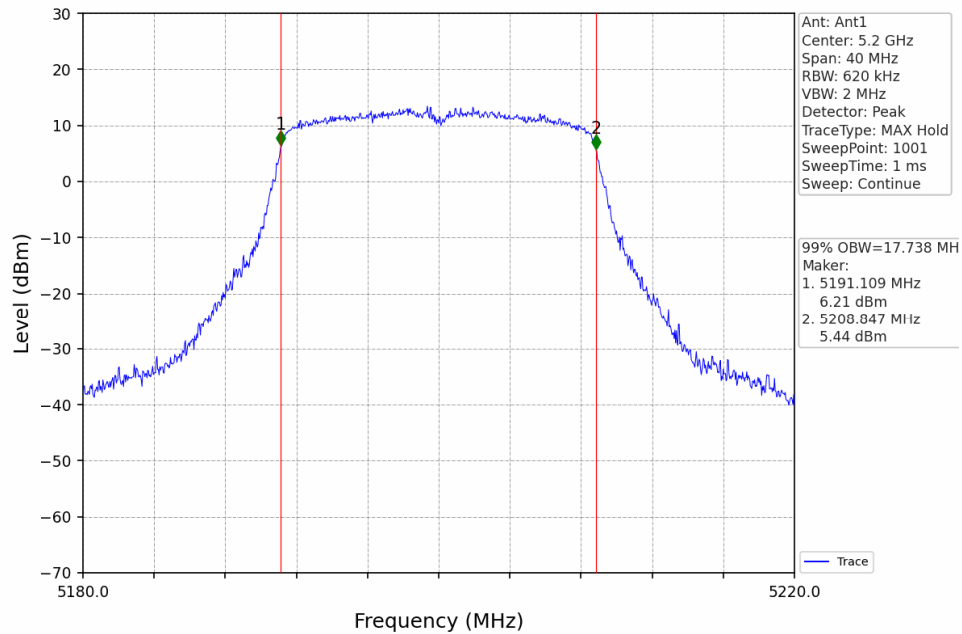
802.11a_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

