

7.12.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



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7.13 Radiated Emissions (above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)
 Test Method: KDB 789033 D02 II G
 Measurement Distance: 3m
 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.



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7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 52 % RH Atmospheric Pressure: 1003 mbar

7.13.2 Test Mode Description

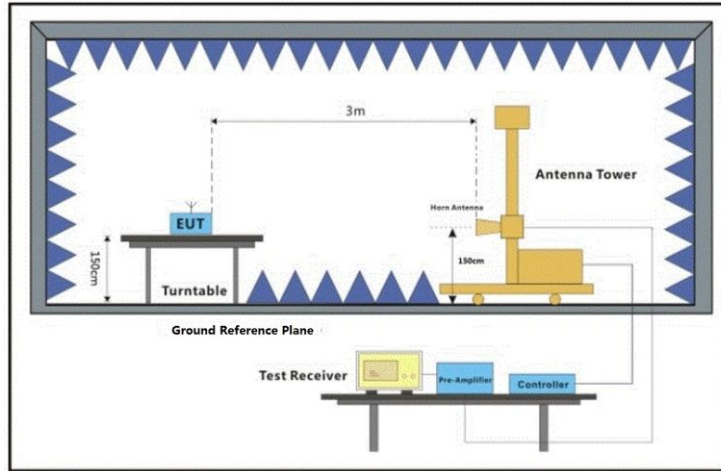
Pre-scan / Final test	Mode Code	Description
Final test	05	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst 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). Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2A)_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). Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-2C)_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). Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-3)_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). Only the data of worst case is recorded in the report.



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7.13.3 Test Setup Diagram



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7.13.4 Measurement Procedure and Data

- a. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

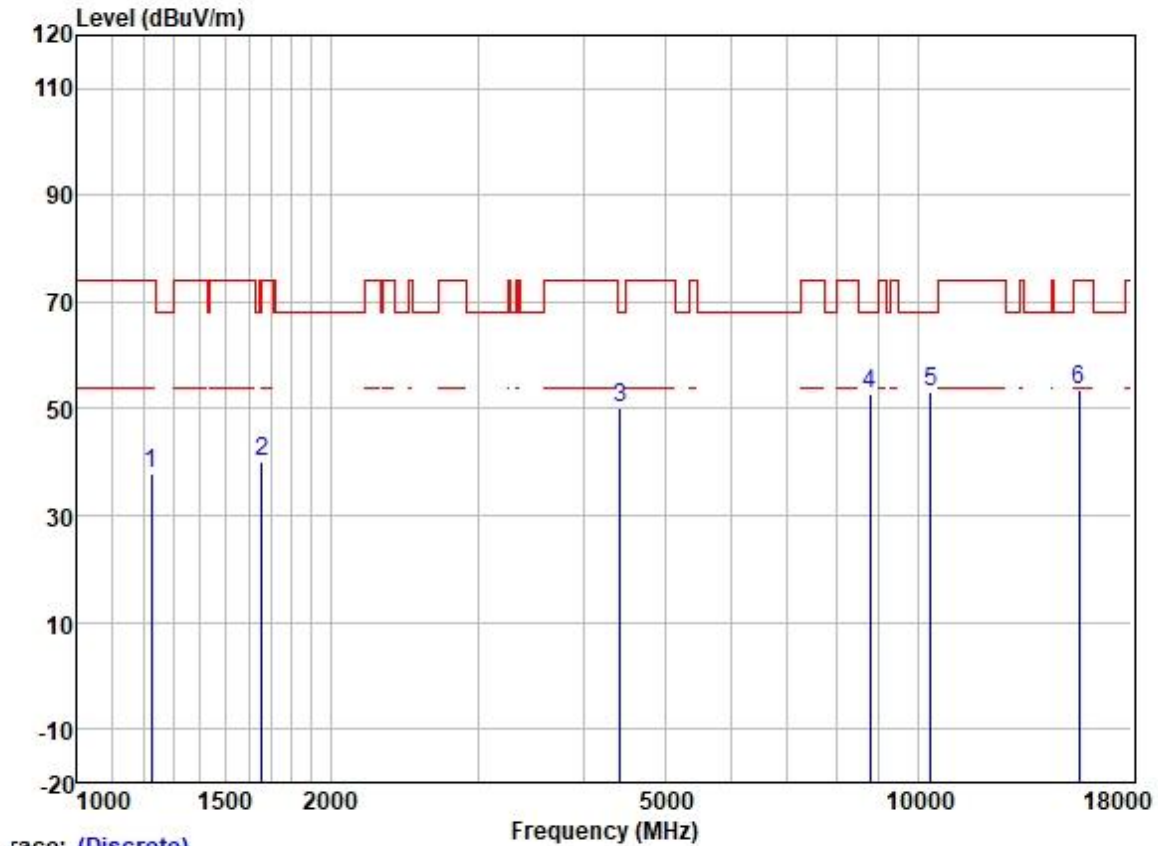
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



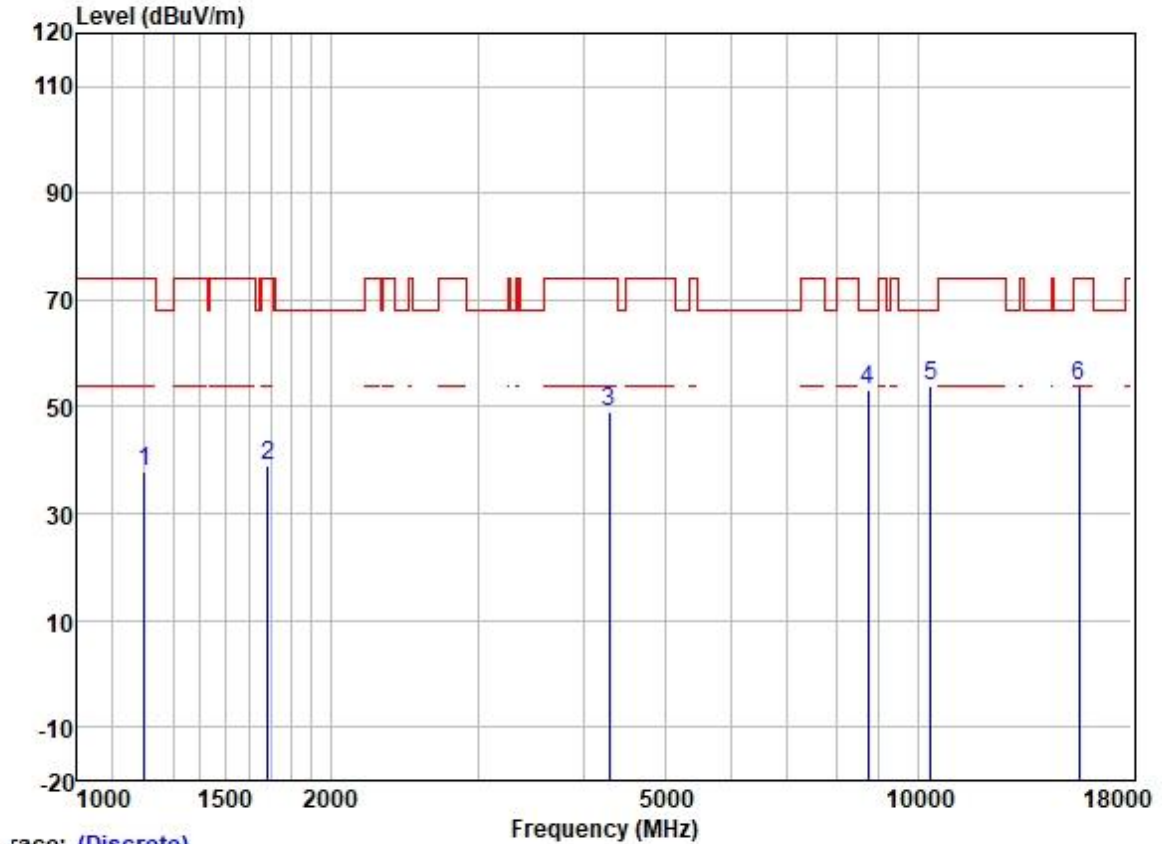
Trace: (Discrete)

	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	1224.247	49.15	24.85	2.31	38.37	37.94	74.00	-36.06	HORIZONTAL	Peak
2	1658.337	49.52	25.65	2.80	37.93	40.04	68.20	-28.16	HORIZONTAL	Peak
3	4430.628	51.40	30.72	4.78	36.81	50.09	68.20	-18.11	HORIZONTAL	Peak
4	8764.146	45.70	37.32	7.19	37.54	52.67	68.20	-15.53	HORIZONTAL	Peak
5	10360.000	43.93	39.28	7.29	37.37	53.13	68.20	-15.07	HORIZONTAL	Peak
6	15540.000	40.02	39.05	9.88	35.39	53.56	74.00	-20.44	HORIZONTAL	Peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



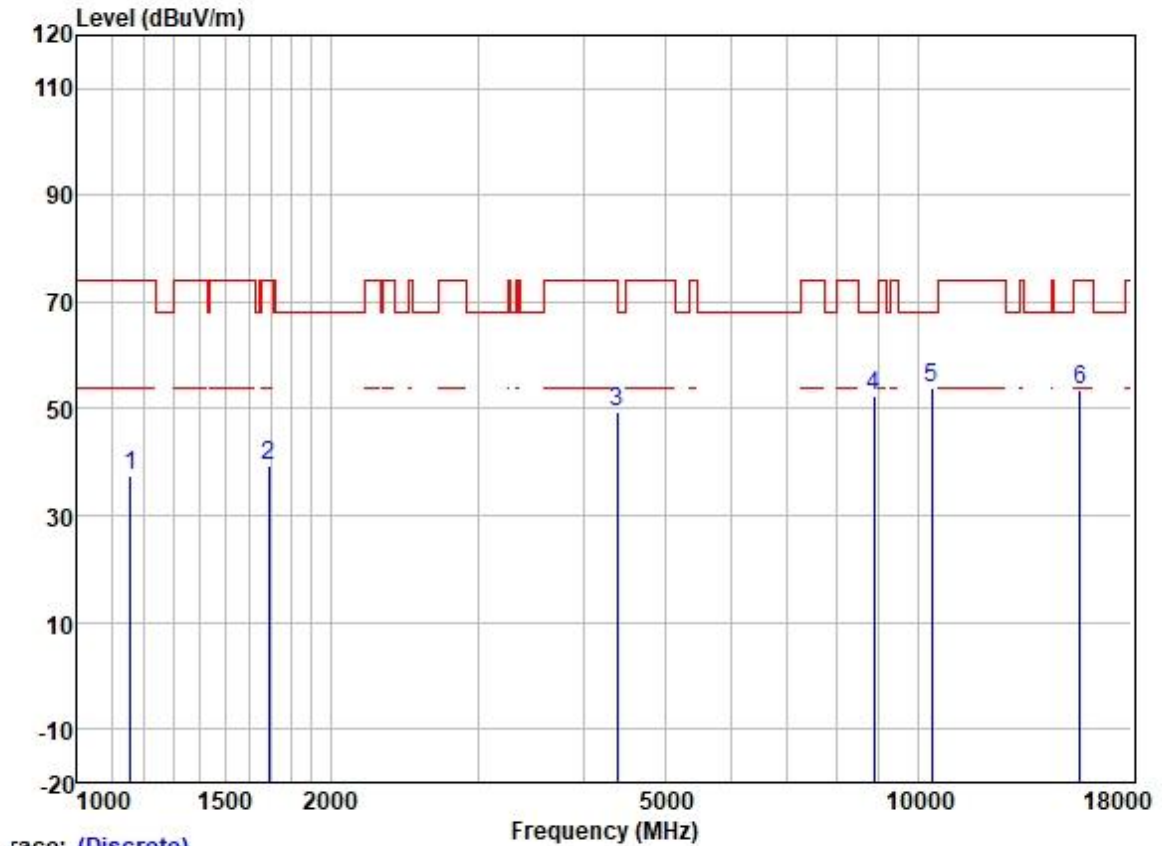
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1203.199	49.39	24.70	2.34	38.39	38.04	74.00 -35.96	VERTICAL	Peak
2	1687.347	48.53	25.69	2.80	37.91	39.11	74.00 -34.89	VERTICAL	Peak
3	4291.977	50.93	30.45	4.64	36.81	49.21	74.00 -24.79	VERTICAL	Peak
4	8738.852	46.22	37.31	7.13	37.54	53.12	68.20 -15.08	VERTICAL	Peak
5	10360.000	44.58	39.28	7.29	37.37	53.78	68.20 -14.42	VERTICAL	Peak
6	15540.000	40.34	39.05	9.88	35.39	53.88	74.00 -20.12	VERTICAL	Peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

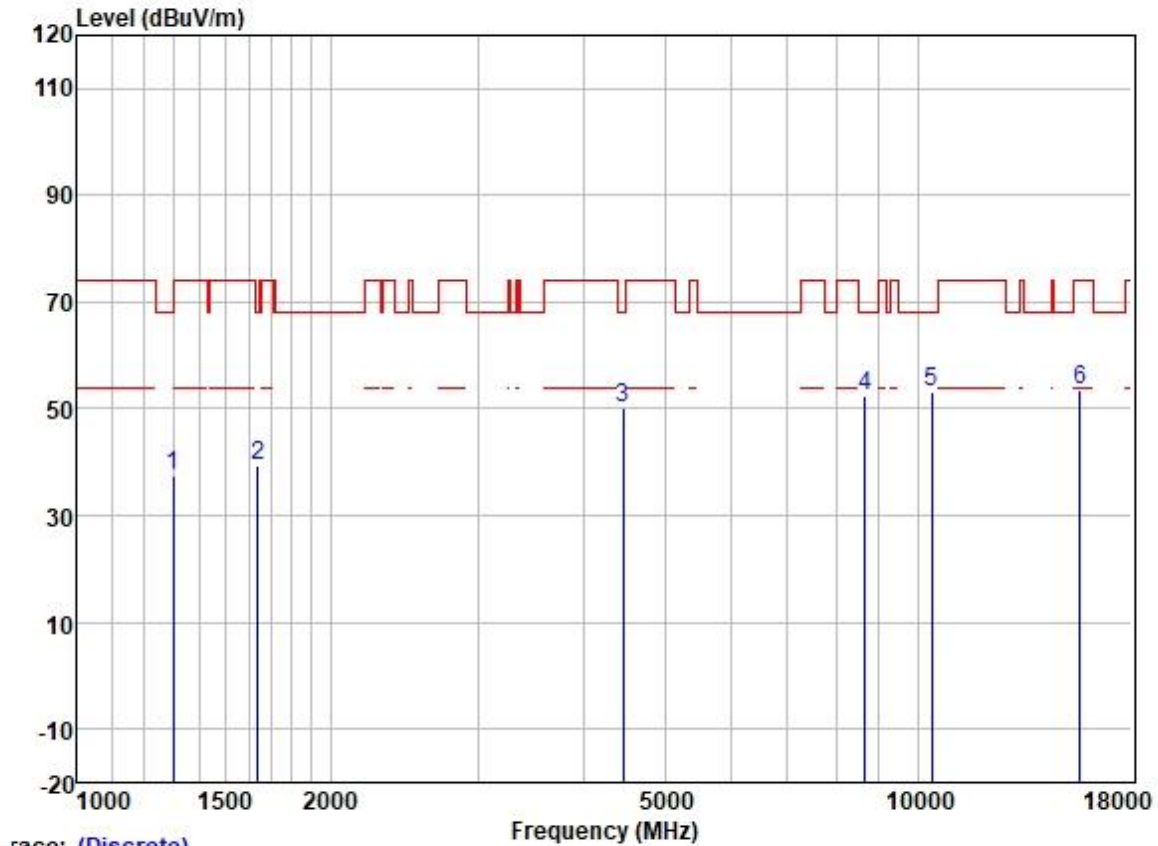
	Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1155.483	49.15	24.51	2.38	38.42	37.62	74.00	-36.38	HORIZONTAL	Peak
2	1692.231	48.78	25.70	2.80	37.89	39.39	74.00	-34.61	HORIZONTAL	Peak
3	4392.376	51.02	30.66	4.70	36.81	49.57	74.00	-24.43	HORIZONTAL	Peak
4	8866.062	45.40	37.36	7.38	37.53	52.61	68.20	-15.59	HORIZONTAL	Peak
5	10400.000	44.51	39.33	7.32	37.36	53.80	68.20	-14.40	HORIZONTAL	Peak
6	15600.000	40.11	38.99	9.88	35.39	53.59	74.00	-20.41	HORIZONTAL	Peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



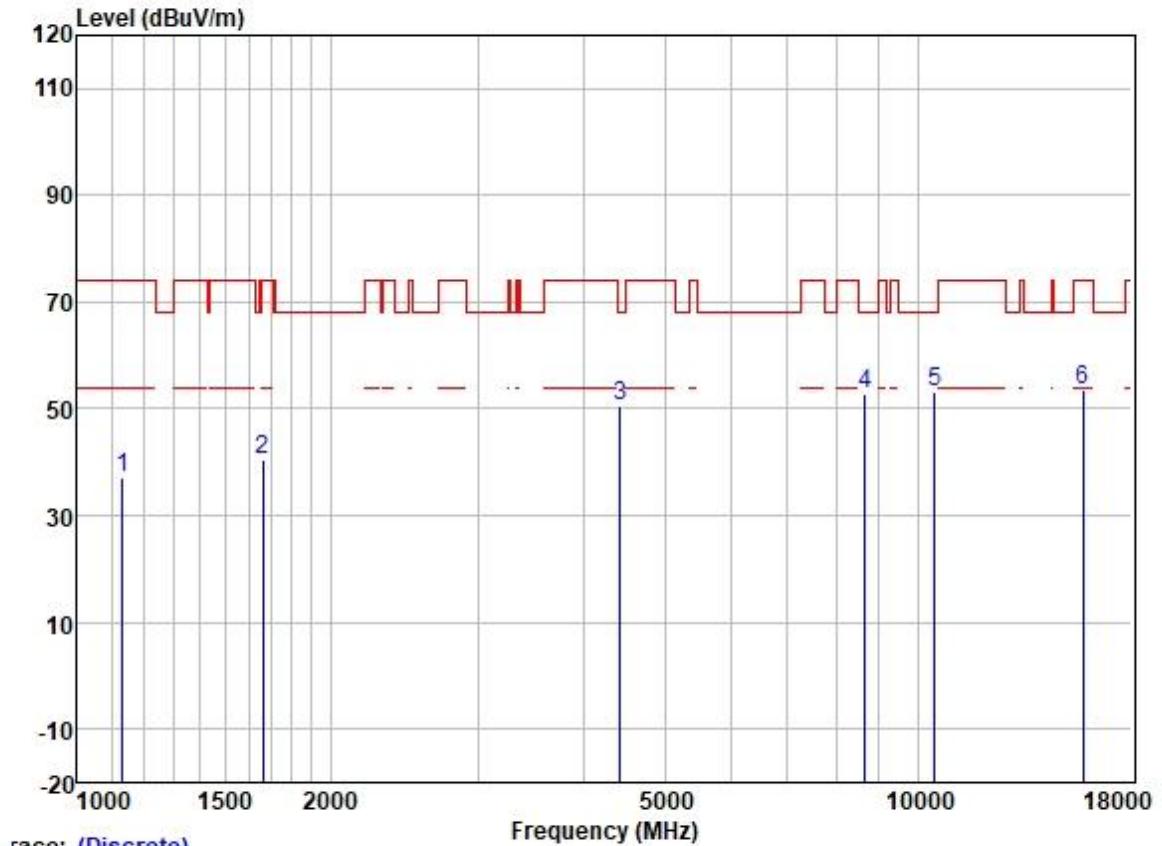
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1300.858	47.96	25.20	2.60	38.31	37.45	74.00 -36.55	VERTICAL	Peak
2	1639.274	48.86	25.62	2.80	37.93	39.35	68.20 -28.85	VERTICAL	Peak
3	4456.315	51.25	30.75	4.88	36.81	50.07	68.20 -18.13	VERTICAL	Peak
4	8663.404	45.79	37.27	6.97	37.55	52.48	68.20 -15.72	VERTICAL	Peak
5	10400.000	43.96	39.33	7.32	37.36	53.25	68.20 -14.95	VERTICAL	Peak
6	15600.000	40.04	38.99	9.88	35.39	53.52	74.00 -20.48	VERTICAL	Peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

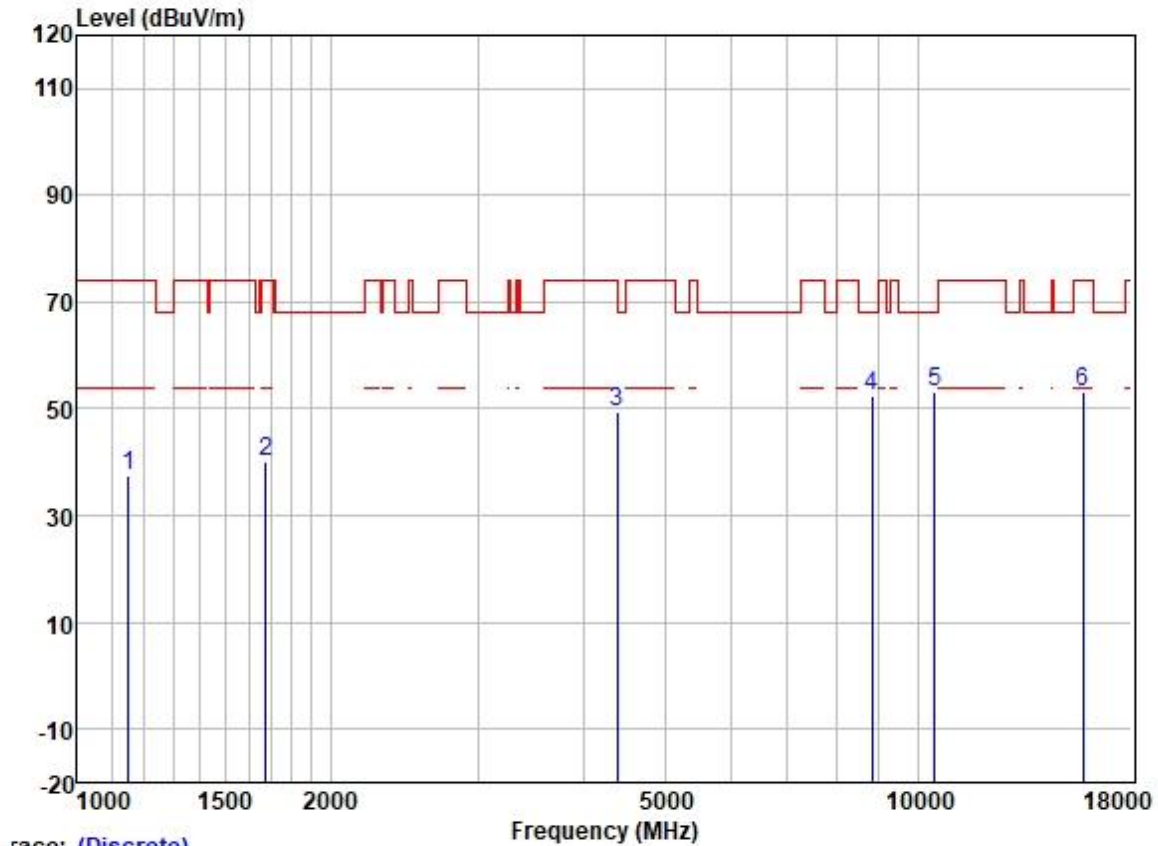
	Read	Antenna	Cable	Preamp	Limit	Over				
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1132.340	48.74	24.44	2.22	38.43	36.97	74.00	-37.03	HORIZONTAL	Peak
2	1663.137	49.90	25.65	2.80	37.91	40.44	74.00	-33.56	HORIZONTAL	Peak
3	4430.628	51.74	30.72	4.78	36.81	50.43	68.20	-17.77	HORIZONTAL	Peak
4	8663.404	46.09	37.27	6.97	37.55	52.78	68.20	-15.42	HORIZONTAL	Peak
5	10480.000	43.82	39.46	7.40	37.36	53.32	68.20	-14.88	HORIZONTAL	Peak
6	15720.000	40.38	38.78	9.87	35.39	53.64	74.00	-20.36	HORIZONTAL	Peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



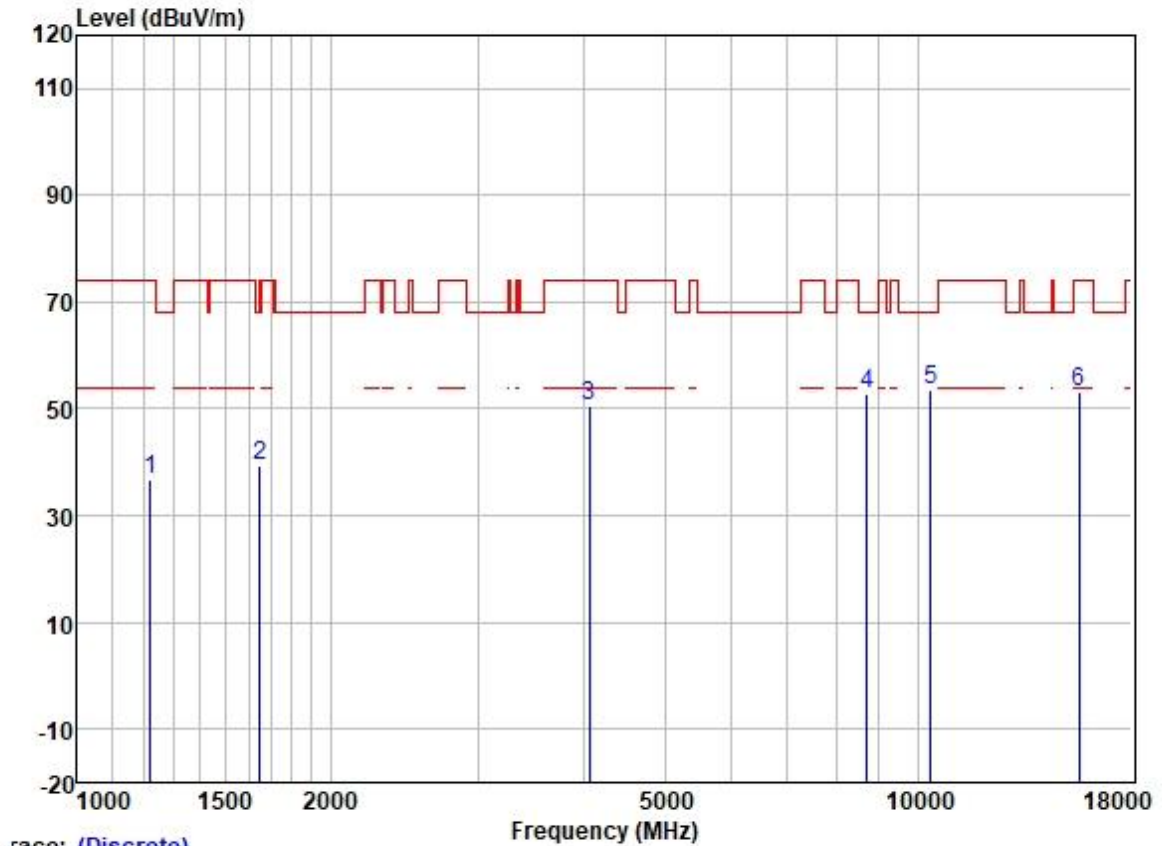
Trace: (Discrete)

	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	1152.148	48.96	24.50	2.36	38.42	37.40	74.00	-36.60	VERTICAL	Peak
2	1677.621	49.54	25.68	2.80	37.91	40.11	74.00	-33.89	VERTICAL	Peak
3	4392.376	50.73	30.66	4.70	36.81	49.28	74.00	-24.72	VERTICAL	Peak
4	8814.957	45.26	37.34	7.29	37.53	52.36	68.20	-15.84	VERTICAL	Peak
5	10480.000	43.58	39.46	7.40	37.36	53.08	68.20	-15.12	VERTICAL	Peak
6	15720.000	39.96	38.78	9.87	35.39	53.22	74.00	-20.78	VERTICAL	Peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



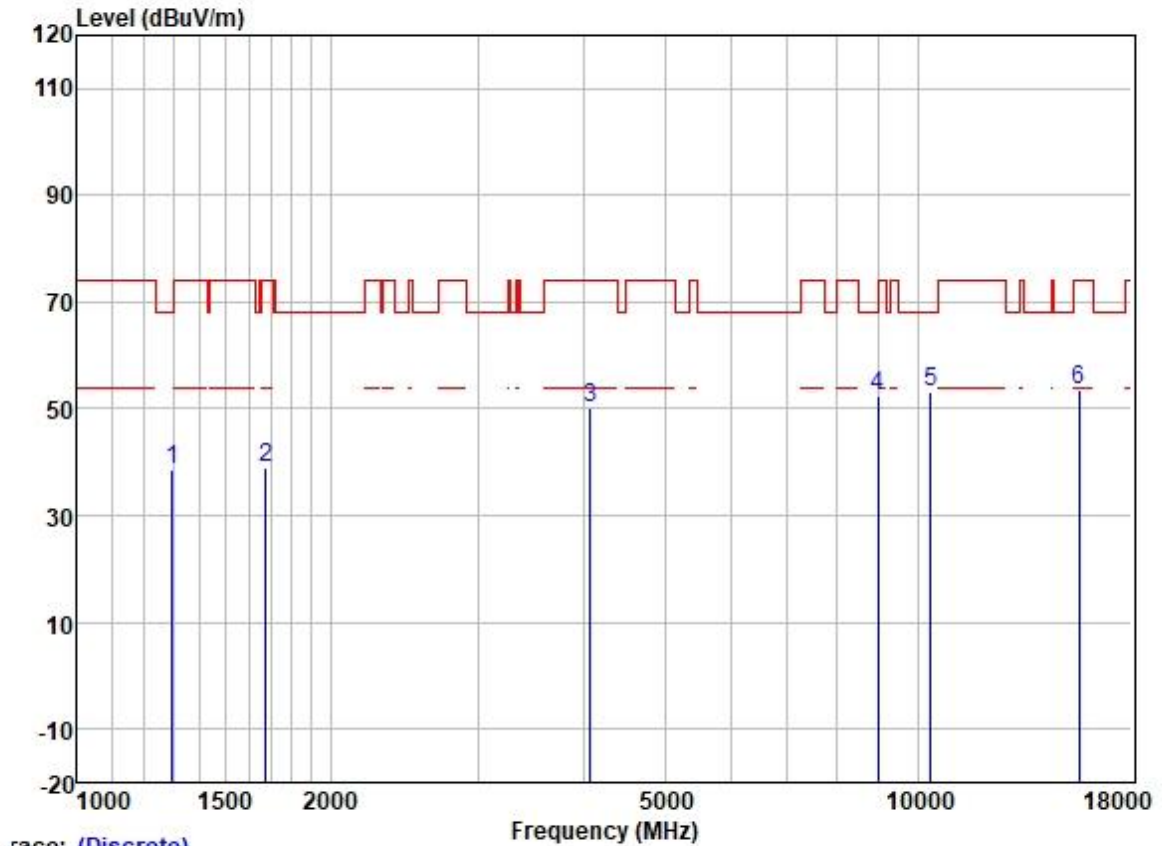
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1220.714	47.95	24.82	2.32	38.37	36.72	74.00	-37.28	HORIZONTAL Peak
2	1648.778	48.82	25.63	2.80	37.93	39.32	68.20	-28.88	HORIZONTAL Peak
3	4062.629	52.88	29.88	4.60	36.80	50.56	74.00	-23.44	HORIZONTAL Peak
4	8713.630	45.93	37.30	7.07	37.55	52.75	68.20	-15.45	HORIZONTAL Peak
5	10360.000	44.31	39.28	7.29	37.37	53.51	68.20	-14.69	HORIZONTAL Peak
6	15540.000	39.58	39.05	9.88	35.39	53.12	74.00	-20.88	HORIZONTAL Peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



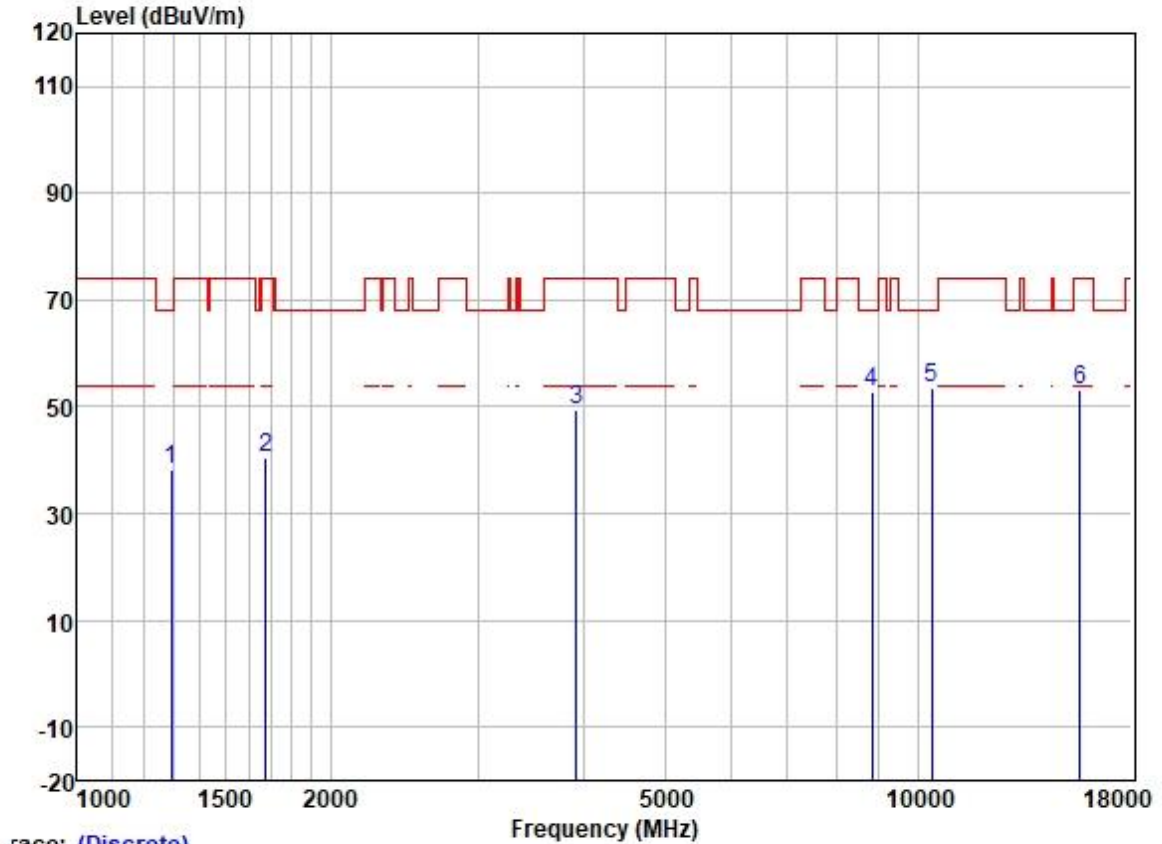
Trace: (Discrete)

	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	1297.103	49.19	25.19	2.58	38.31	38.65	68.20	-29.55	VERTICAL	Peak
2	1677.621	48.40	25.68	2.80	37.91	38.97	74.00	-35.03	VERTICAL	Peak
3	4074.388	52.35	29.90	4.60	36.80	50.05	74.00	-23.95	VERTICAL	Peak
4	8969.161	45.15	37.39	7.53	37.51	52.56	68.20	-15.64	VERTICAL	Peak
5	10360.000	44.00	39.28	7.29	37.37	53.20	68.20	-15.00	VERTICAL	Peak
6	15540.000	40.19	39.05	9.88	35.39	53.73	74.00	-20.27	VERTICAL	Peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



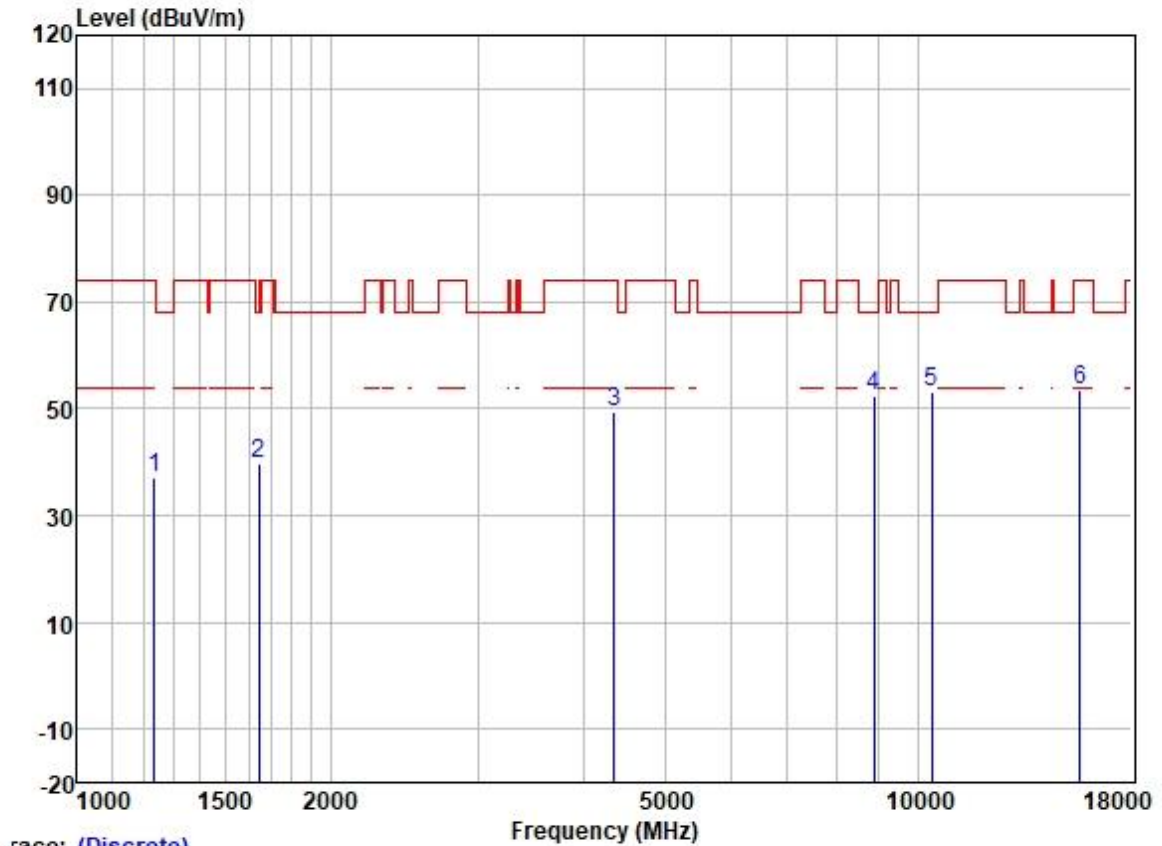
Trace: (Discrete)

	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	1293.359	48.68	25.18	2.57	38.31	38.12	68.20	-30.08	HORIZONTAL	Peak
2	1677.621	49.87	25.68	2.80	37.91	40.44	74.00	-33.56	HORIZONTAL	Peak
3	3924.135	51.89	29.72	4.60	36.82	49.39	74.00	-24.61	HORIZONTAL	Peak
4	8814.957	45.72	37.34	7.29	37.53	52.82	68.20	-15.38	HORIZONTAL	Peak
5	10400.000	44.35	39.33	7.32	37.36	53.64	68.20	-14.56	HORIZONTAL	Peak
6	15600.000	39.85	38.99	9.88	35.39	53.33	74.00	-20.67	HORIZONTAL	Peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



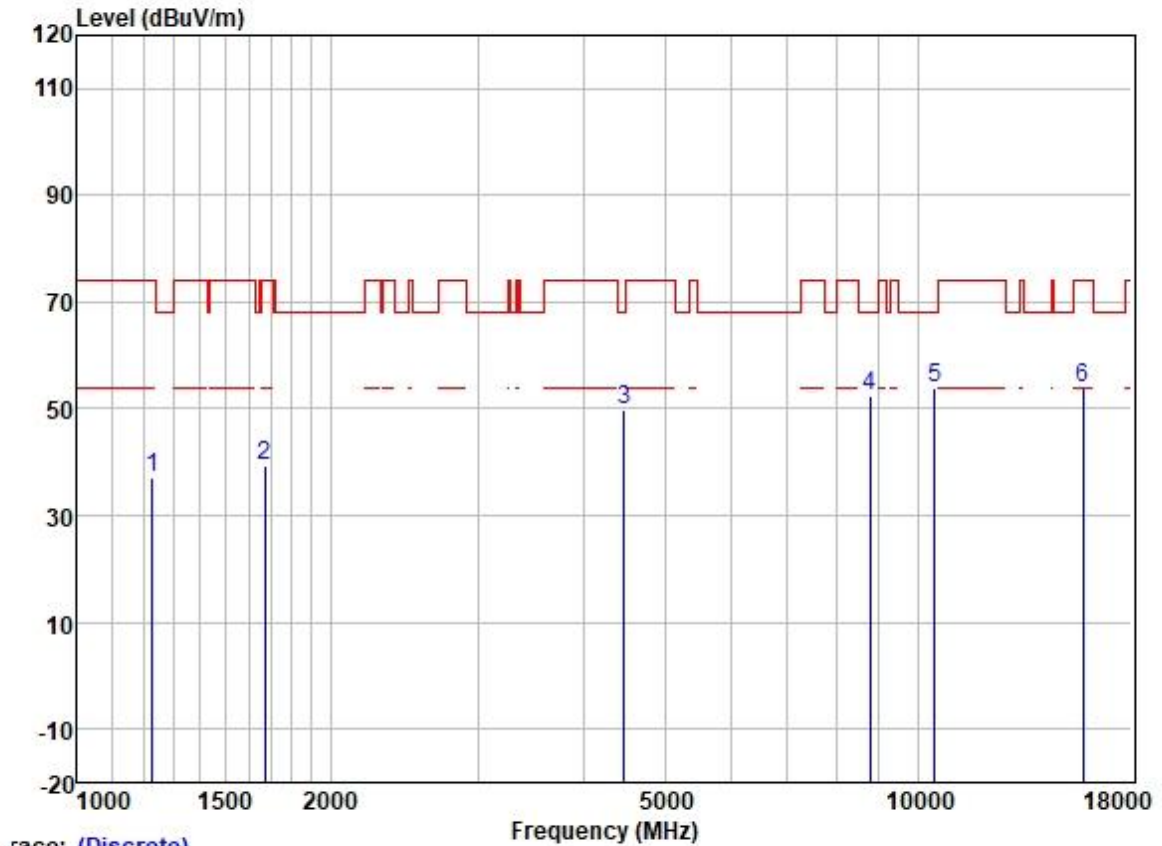
Trace: (Discrete)

	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	1234.909	48.36	24.93	2.30	38.37	37.22	74.00	-36.78	VERTICAL	Peak
2	1644.019	49.22	25.63	2.80	37.93	39.72	68.20	-28.48	VERTICAL	Peak
3	4354.454	51.09	30.59	4.68	36.81	49.55	74.00	-24.45	VERTICAL	Peak
4	8866.062	45.30	37.36	7.38	37.53	52.51	68.20	-15.69	VERTICAL	Peak
5	10400.000	43.84	39.33	7.32	37.36	53.13	68.20	-15.07	VERTICAL	Peak
6	15600.000	40.23	38.99	9.88	35.39	53.71	74.00	-20.29	VERTICAL	Peak



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

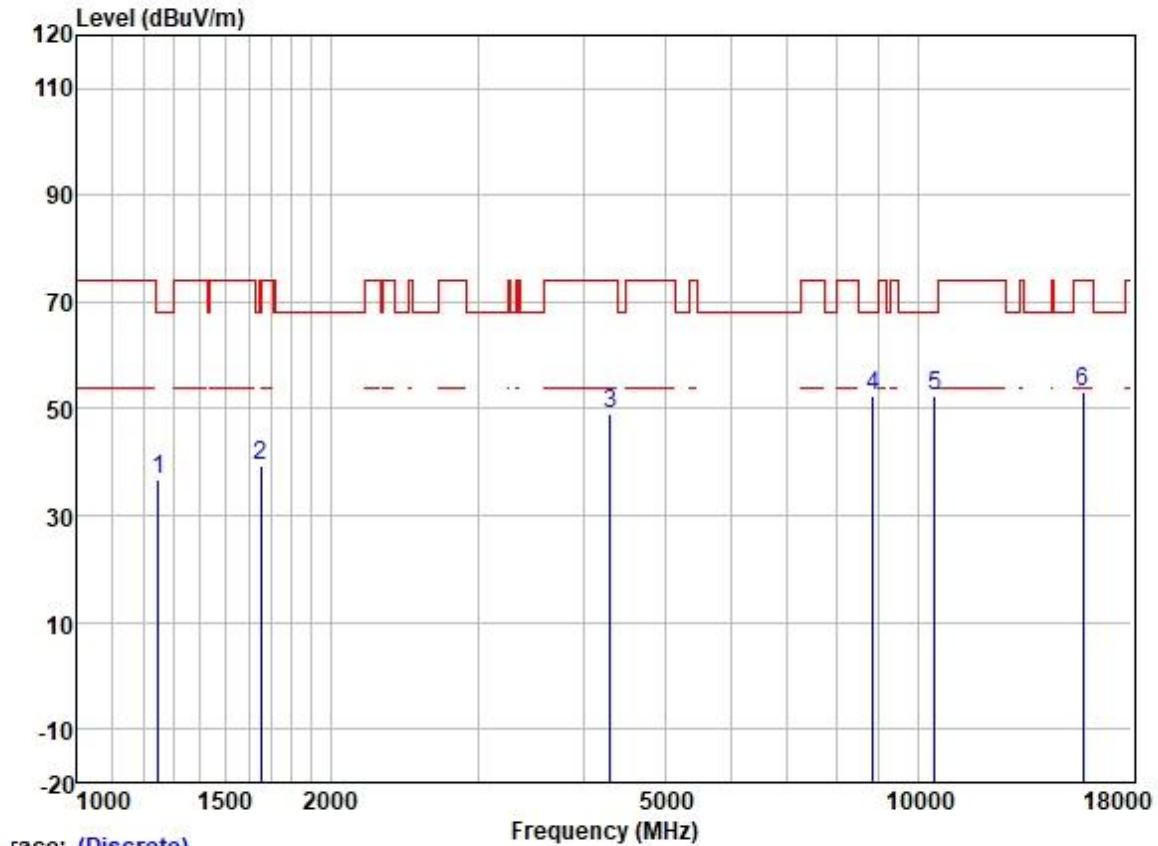
	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1227.791	48.37	24.88	2.31	38.37	37.19	74.00	-36.81 HORIZONTAL Peak
2	1672.779	48.95	25.67	2.80	37.91	39.51	74.00	-34.49 HORIZONTAL Peak
3	4469.214	50.96	30.77	4.93	36.81	49.85	68.20	-18.35 HORIZONTAL Peak
4	8764.146	45.55	37.32	7.19	37.54	52.52	68.20	-15.68 HORIZONTAL Peak
5	10480.000	44.27	39.46	7.40	37.36	53.77	68.20	-14.43 HORIZONTAL Peak
6	15720.000	40.74	38.78	9.87	35.39	54.00	74.00	-20.00 HORIZONTAL Peak



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



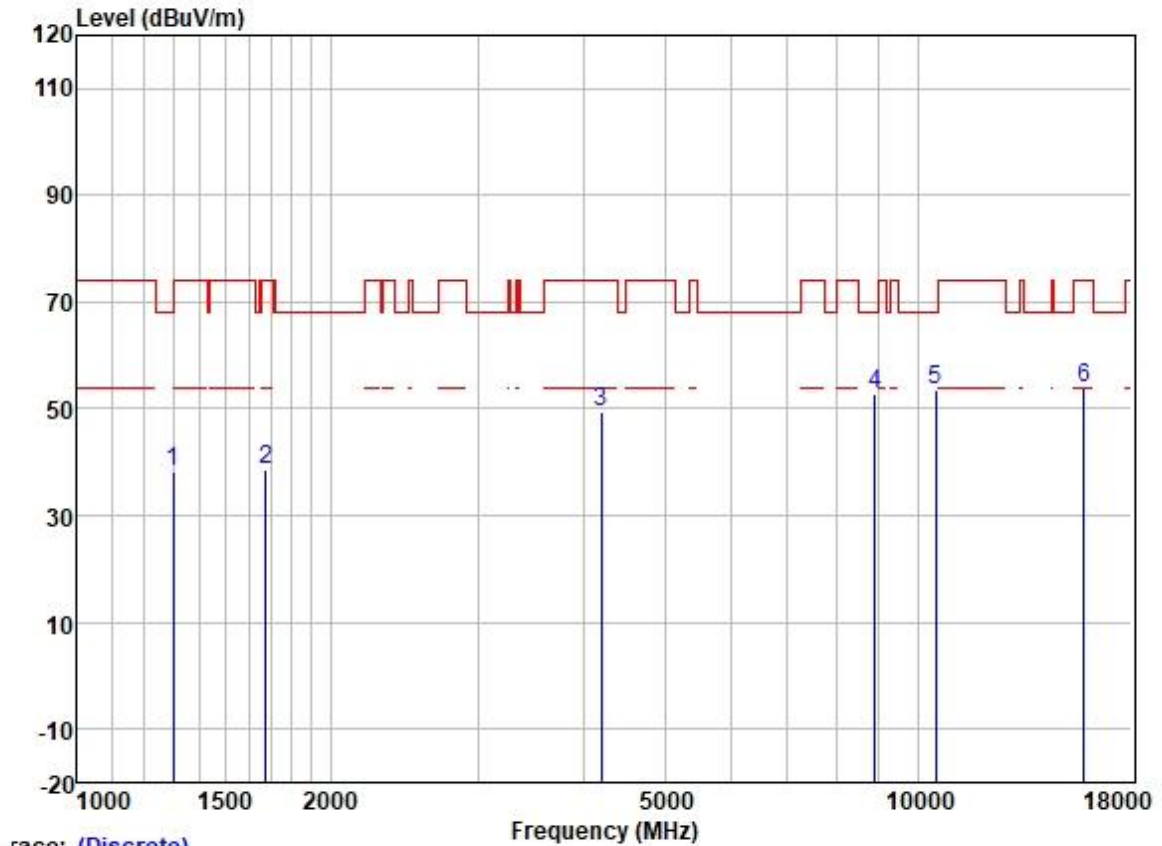
Trace: (Discrete)

	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	1249.269	47.80	25.02	2.34	38.35	36.81	68.20	-31.39	VERTICAL	Peak
2	1653.550	48.94	25.64	2.80	37.93	39.45	68.20	-28.75	VERTICAL	Peak
3	4304.400	50.80	30.48	4.65	36.81	49.12	74.00	-24.88	VERTICAL	Peak
4	8840.473	45.27	37.35	7.34	37.53	52.43	68.20	-15.77	VERTICAL	Peak
5	10480.000	43.07	39.46	7.40	37.36	52.57	68.20	-15.63	VERTICAL	Peak
6	15720.000	39.85	38.78	9.87	35.39	53.11	74.00	-20.89	VERTICAL	Peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

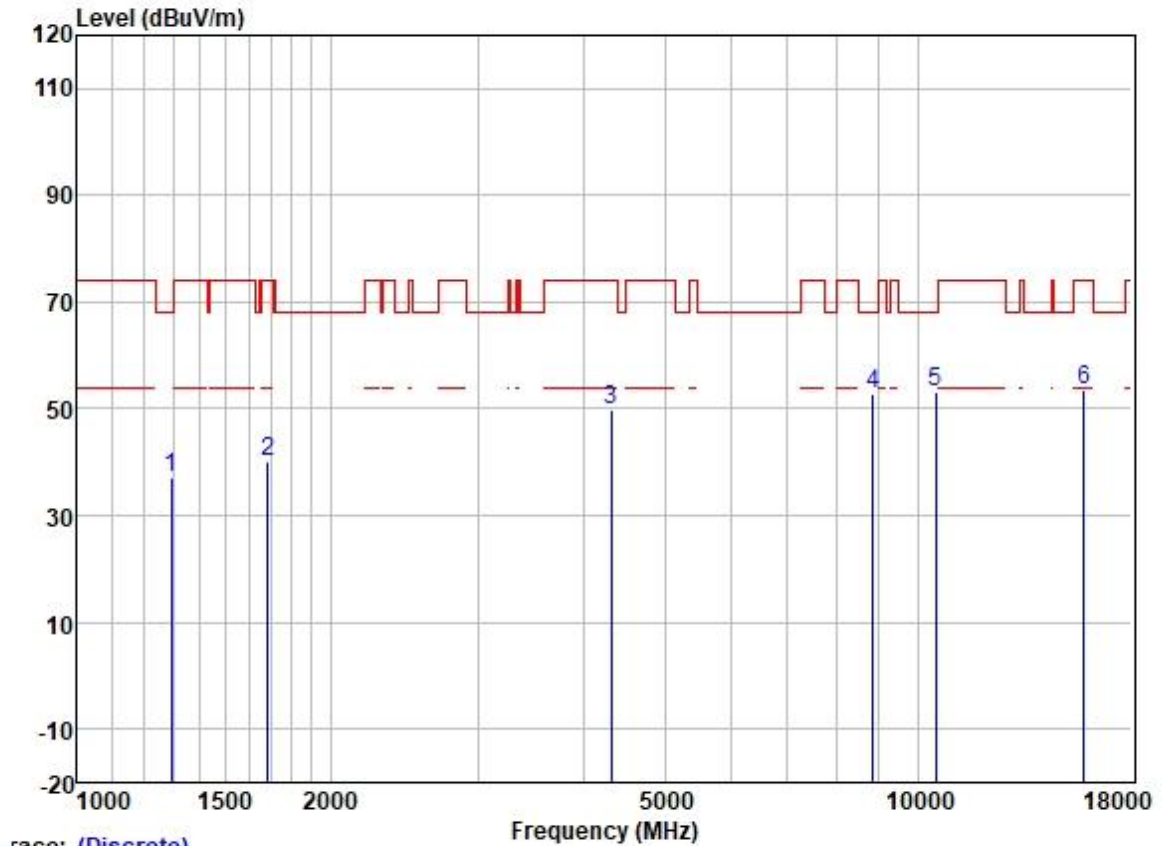
	Read	Antenna	Cable	Preamp		Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1300.858	48.75	25.20	2.60	38.31	38.24	74.00	-35.76	HORIZONTAL	Peak
2	1677.621	48.13	25.68	2.80	37.91	38.70	74.00	-35.30	HORIZONTAL	Peak
3	4206.011	51.33	30.18	4.60	36.81	49.30	74.00	-24.70	HORIZONTAL	Peak
4	8891.725	45.35	37.37	7.42	37.52	52.62	68.20	-15.58	HORIZONTAL	Peak
5	10520.000	43.95	39.50	7.42	37.35	53.52	68.20	-14.68	HORIZONTAL	Peak
6	15780.000	40.75	38.70	9.86	35.39	53.92	74.00	-20.08	HORIZONTAL	Peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



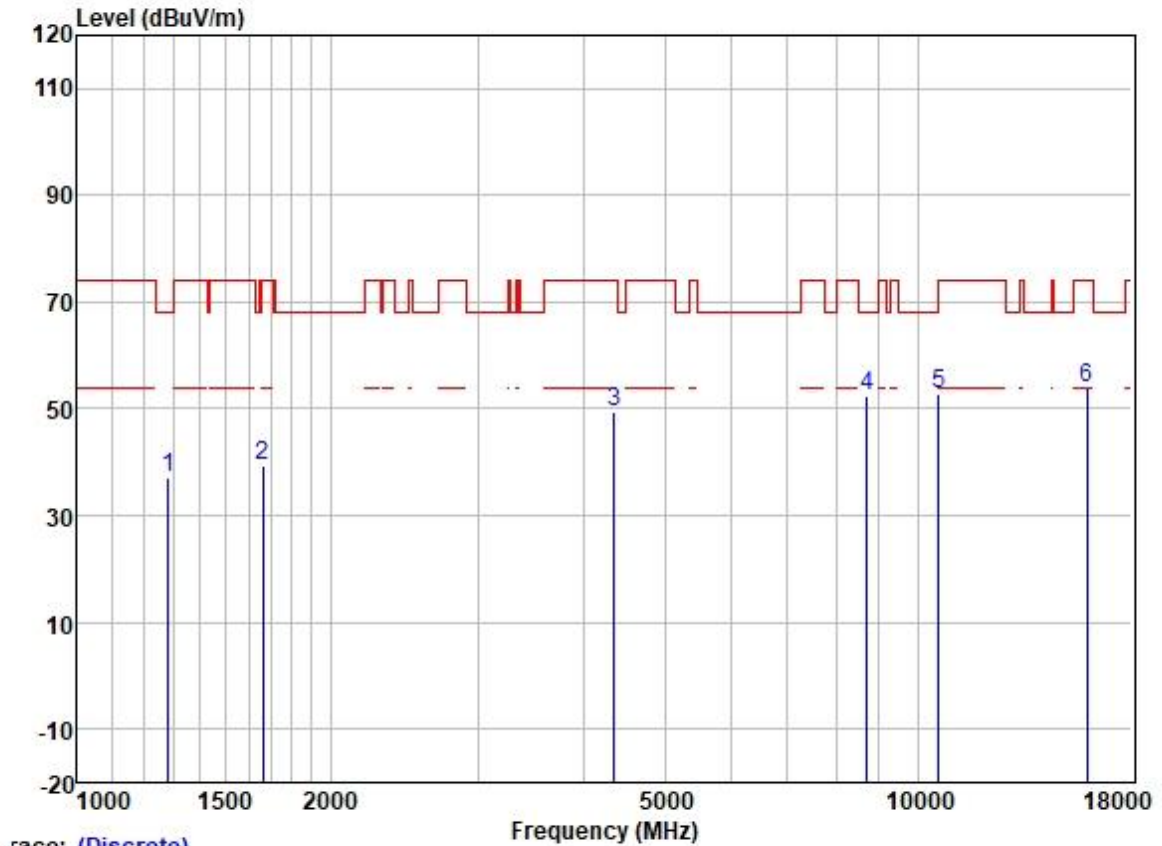
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB		
1	1293.359	47.73	25.18	2.57	38.31	37.17	68.20	-31.03	VERTICAL Peak
2	1687.347	49.55	25.69	2.80	37.91	40.13	74.00	-33.87	VERTICAL Peak
3	4316.859	51.53	30.51	4.66	36.81	49.89	74.00	-24.11	VERTICAL Peak
4	8840.473	45.49	37.35	7.34	37.53	52.65	68.20	-15.55	VERTICAL Peak
5	10520.000	43.61	39.50	7.42	37.35	53.18	68.20	-15.02	VERTICAL Peak
6	15780.000	40.56	38.70	9.86	35.39	53.73	74.00	-20.27	VERTICAL Peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



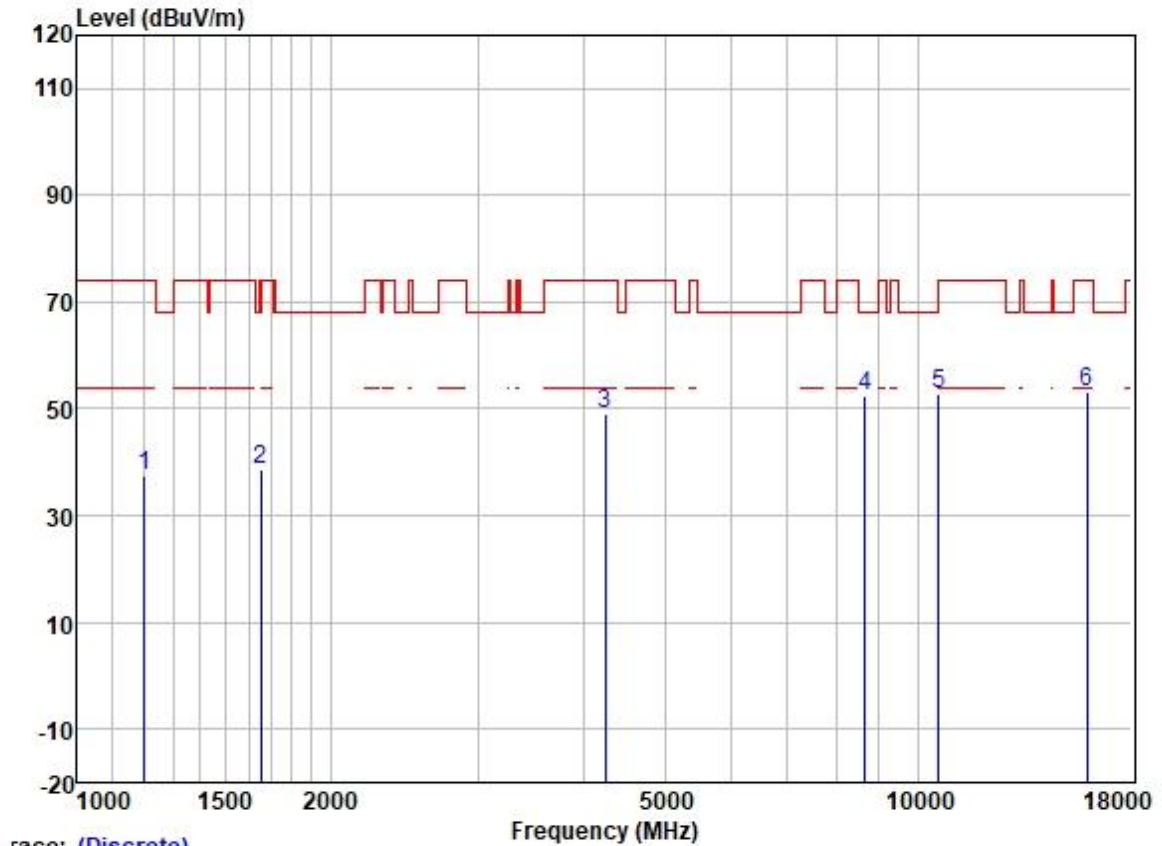
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1282.193	47.63	25.15	2.52	38.33	36.97	68.20	-31.23	HORIZONTAL Peak
2	1663.137	48.79	25.65	2.80	37.91	39.33	74.00	-34.67	HORIZONTAL Peak
3	4354.454	50.94	30.59	4.68	36.81	49.40	74.00	-24.60	HORIZONTAL Peak
4	8713.630	45.69	37.30	7.07	37.55	52.51	68.20	-15.69	HORIZONTAL Peak
5	10600.000	43.20	39.59	7.46	37.34	52.91	68.20	-15.29	HORIZONTAL Peak
6	15900.000	40.85	38.44	9.86	35.40	53.75	74.00	-20.25	HORIZONTAL Peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



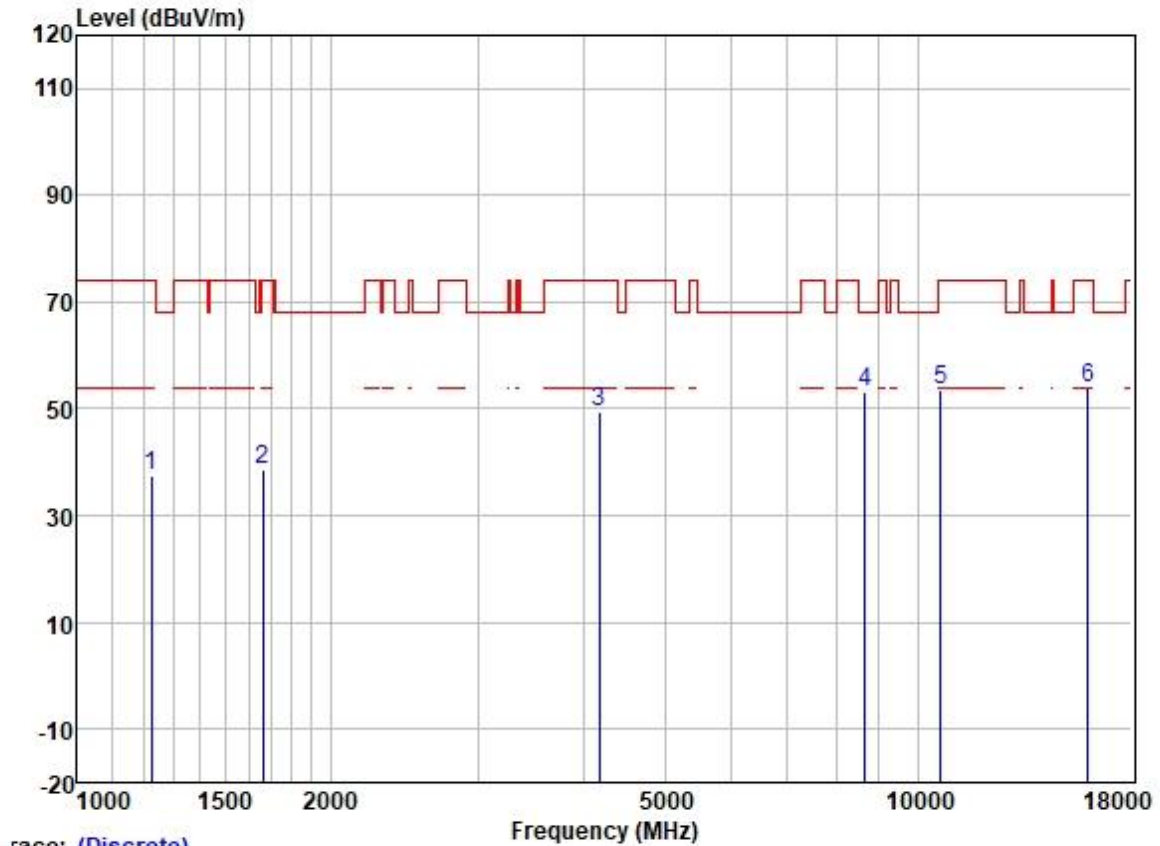
Trace: (Discrete)

	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	1203.199	48.96	24.70	2.34	38.39	37.61	74.00	-36.39	VERTICAL	Peak
2	1653.550	48.08	25.64	2.80	37.93	38.59	68.20	-29.61	VERTICAL	Peak
3	4242.641	51.12	30.30	4.62	36.81	49.23	74.00	-24.77	VERTICAL	Peak
4	8663.404	45.66	37.27	6.97	37.55	52.35	68.20	-15.85	VERTICAL	Peak
5	10600.000	43.27	39.59	7.46	37.34	52.98	68.20	-15.22	VERTICAL	Peak
6	15900.000	40.31	38.44	9.86	35.40	53.21	74.00	-20.79	VERTICAL	Peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



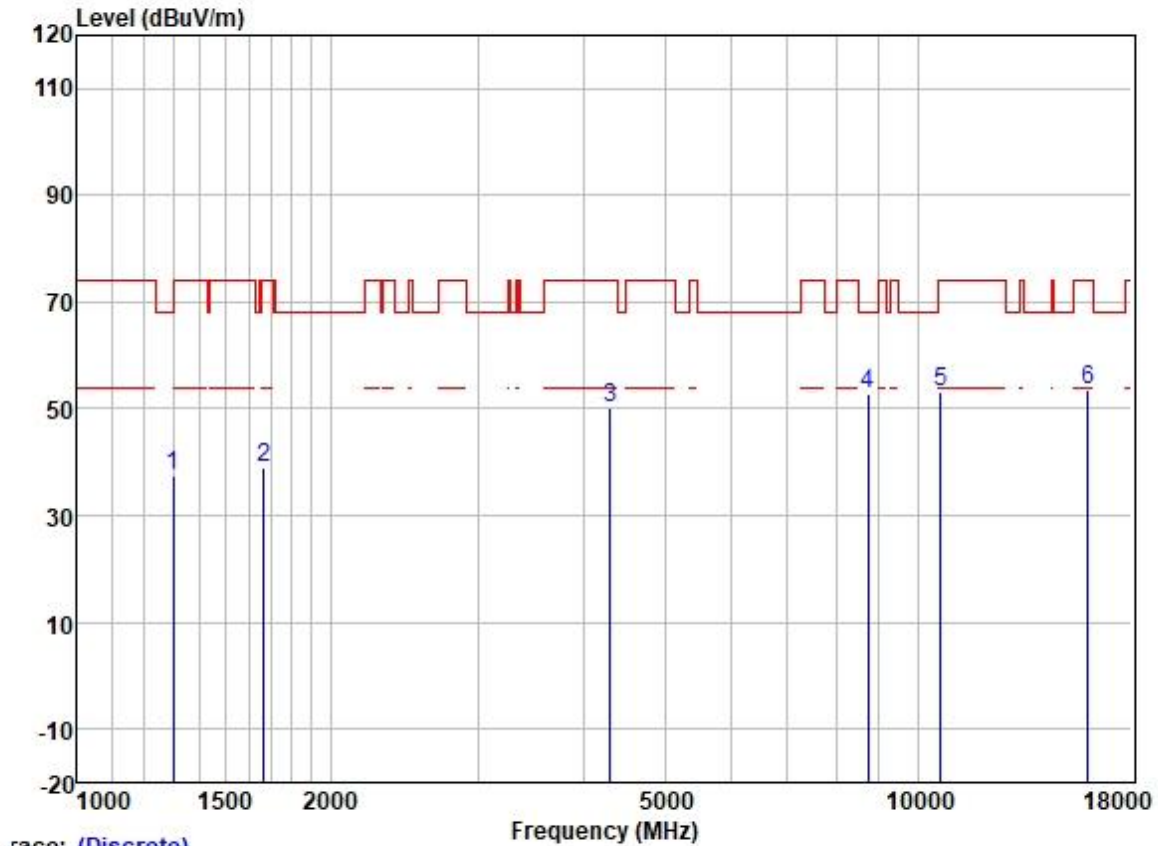
Trace: (Discrete)

	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	1224.247	48.57	24.85	2.31	38.37	37.36	74.00	-36.64	HORIZONTAL	Peak
2	1663.137	48.15	25.65	2.80	37.91	38.69	74.00	-35.31	HORIZONTAL	Peak
3	4181.768	51.67	30.12	4.60	36.80	49.59	74.00	-24.41	HORIZONTAL	Peak
4	8663.404	46.53	37.27	6.97	37.55	53.22	68.20	-14.98	HORIZONTAL	Peak
5	10640.000	43.76	39.63	7.48	37.33	53.54	74.00	-20.46	HORIZONTAL	Peak
6	15960.000	41.15	38.37	9.85	35.40	53.97	74.00	-20.03	HORIZONTAL	Peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



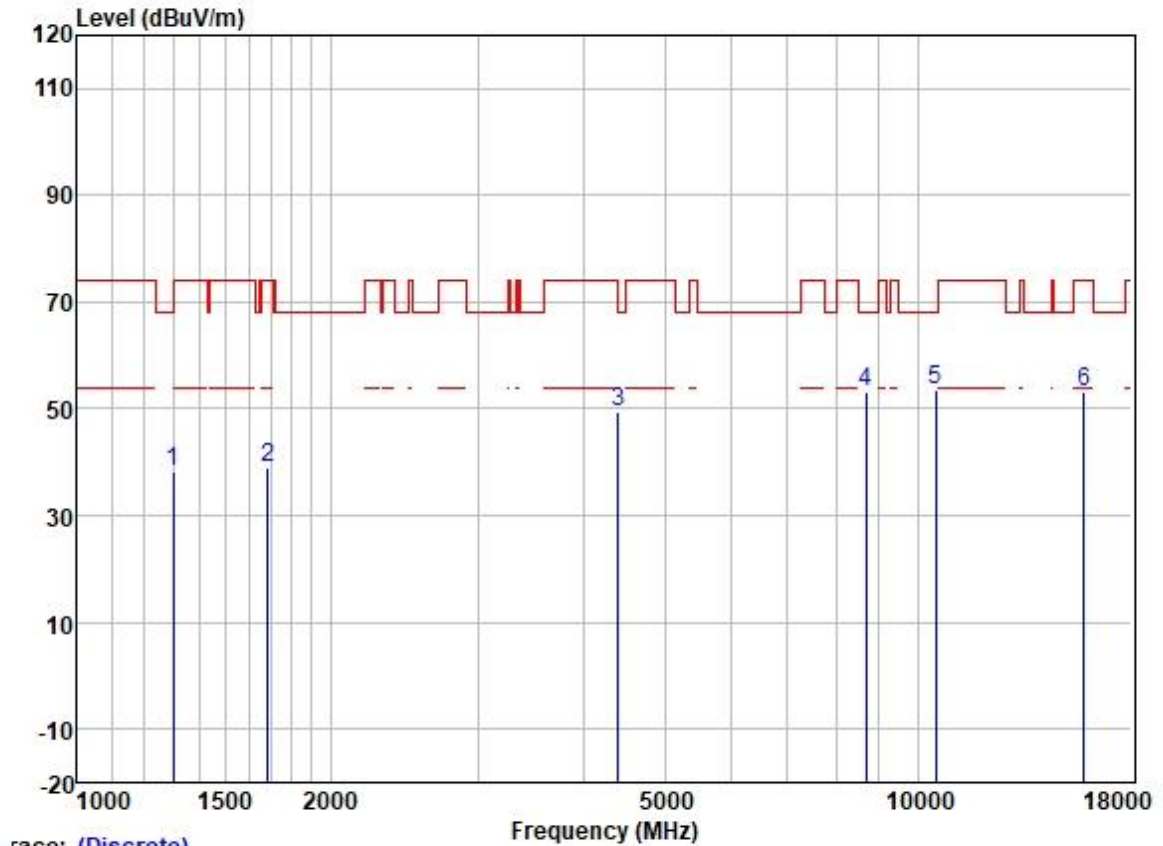
Trace: (Discrete)

	Read Freq	Antenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1300.858	48.15	25.20	2.60	38.31	37.64	74.00	-36.36	VERTICAL	Peak
2	1667.951	48.61	25.66	2.80	37.91	39.16	74.00	-34.84	VERTICAL	Peak
3	4304.400	51.78	30.48	4.65	36.81	50.10	74.00	-23.90	VERTICAL	Peak
4	8738.852	45.88	37.31	7.13	37.54	52.78	68.20	-15.42	VERTICAL	Peak
5	10640.000	43.25	39.63	7.48	37.33	53.03	74.00	-20.97	VERTICAL	Peak
6	15960.000	40.64	38.37	9.85	35.40	53.46	74.00	-20.54	VERTICAL	Peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



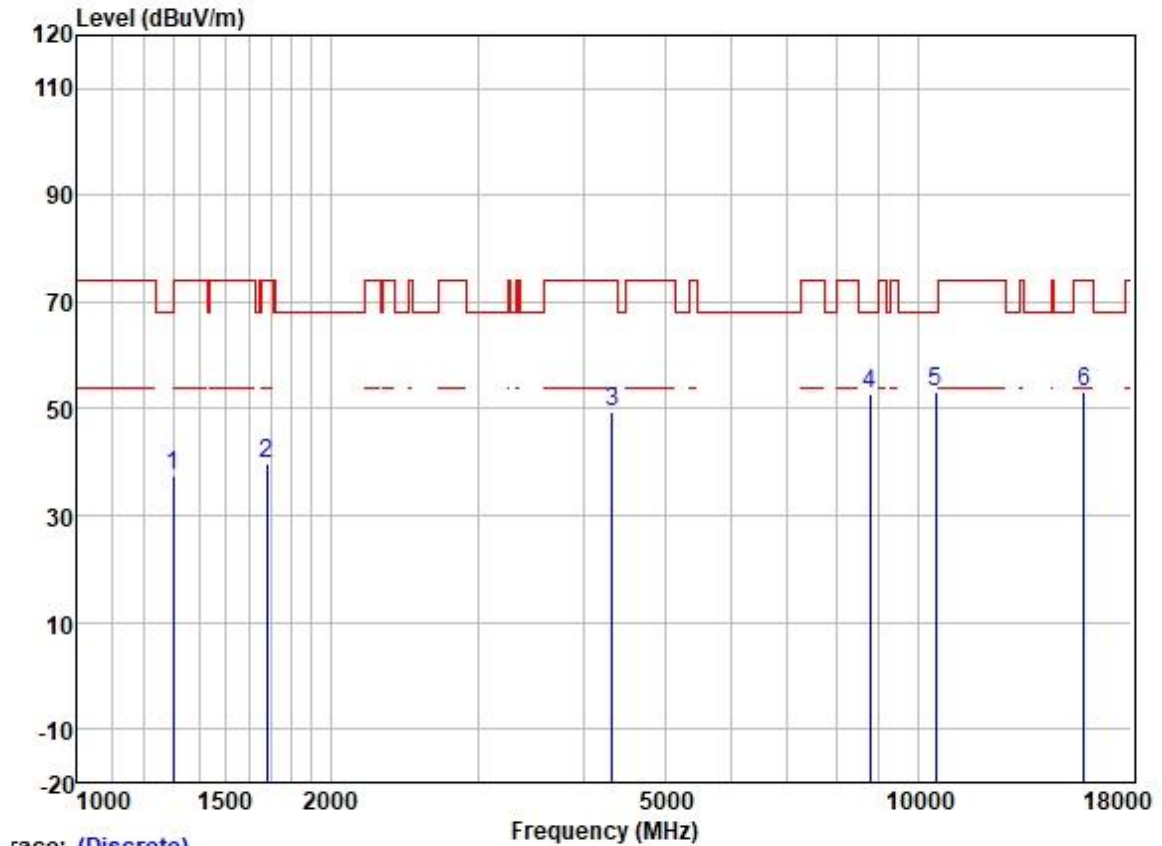
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1300.858	48.76	25.20	2.60	38.31	38.25	74.00	-35.75	HORIZONTAL Peak
2	1687.347	48.58	25.69	2.80	37.91	39.16	74.00	-34.84	HORIZONTAL Peak
3	4405.090	50.99	30.68	4.70	36.81	49.56	68.20	-18.64	HORIZONTAL Peak
4	8688.480	46.33	37.28	7.02	37.55	53.08	68.20	-15.12	HORIZONTAL Peak
5	10520.000	44.05	39.50	7.42	37.35	53.62	68.20	-14.58	HORIZONTAL Peak
6	15780.000	40.00	38.70	9.86	35.39	53.17	74.00	-20.83	HORIZONTAL Peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



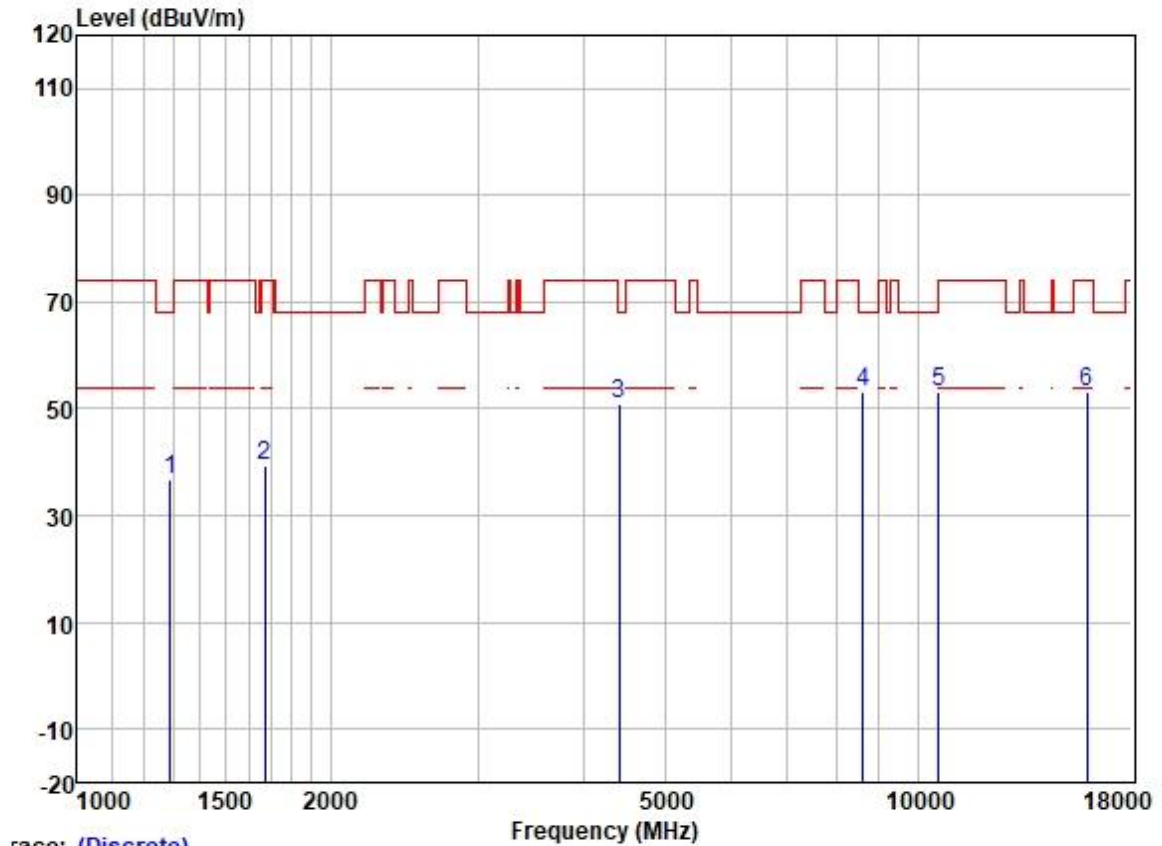
Trace: (Discrete)

	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	1300.858	48.18	25.20	2.60	38.31	37.67	74.00	-36.33	VERTICAL	Peak
2	1682.477	49.01	25.68	2.80	37.91	39.58	74.00	-34.42	VERTICAL	Peak
3	4329.354	51.12	30.54	4.67	36.81	49.52	74.00	-24.48	VERTICAL	Peak
4	8764.146	45.76	37.32	7.19	37.54	52.73	68.20	-15.47	VERTICAL	Peak
5	10520.000	43.75	39.50	7.42	37.35	53.32	68.20	-14.88	VERTICAL	Peak
6	15780.000	39.91	38.70	9.86	35.39	53.08	74.00	-20.92	VERTICAL	Peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



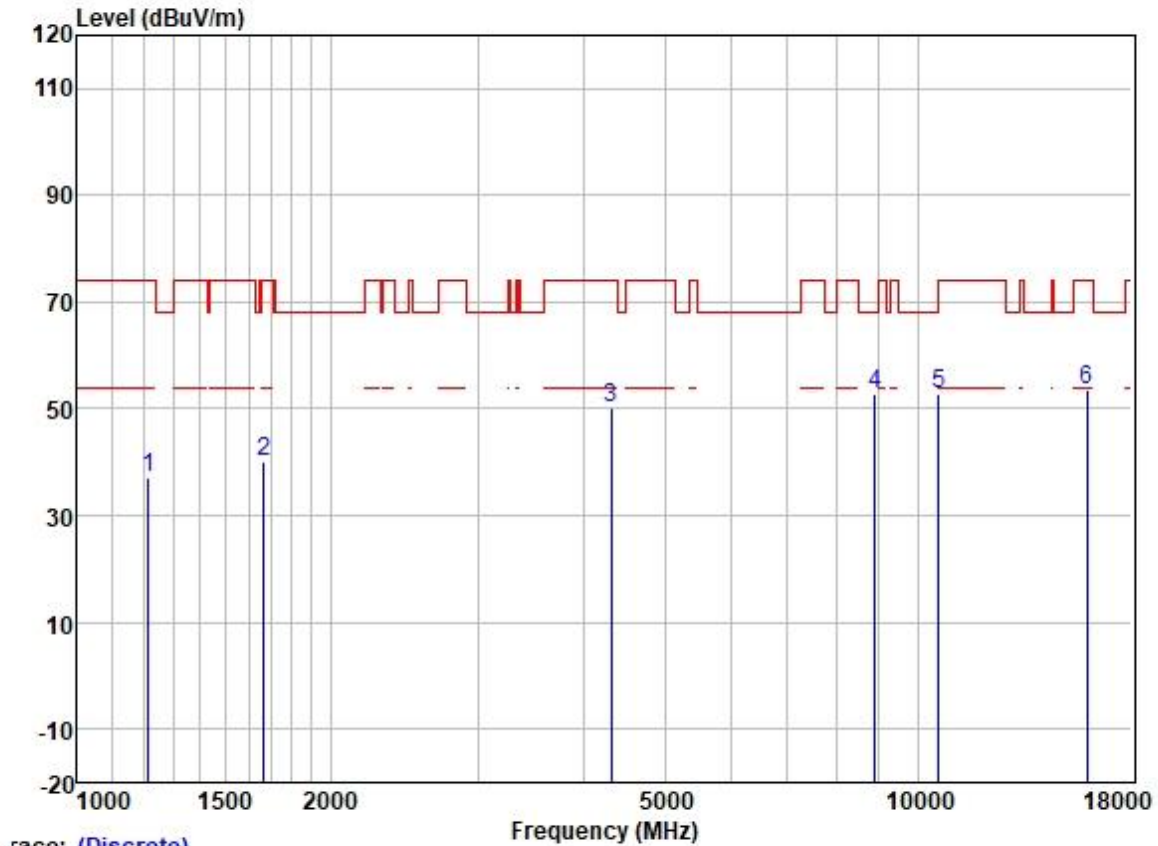
Trace: (Discrete)

	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	1289.627	47.44	25.17	2.55	38.31	36.85	68.20	-31.35	HORIZONTAL Peak
2	1672.779	48.71	25.67	2.80	37.91	39.27	74.00	-34.73	HORIZONTAL Peak
3	4417.841	52.30	30.70	4.74	36.81	50.93	68.20	-17.27	HORIZONTAL Peak
4	8613.468	46.79	37.24	6.88	37.56	53.35	68.20	-14.85	HORIZONTAL Peak
5	10600.000	43.31	39.59	7.46	37.34	53.02	68.20	-15.18	HORIZONTAL Peak
6	15900.000	40.30	38.44	9.86	35.40	53.20	74.00	-20.80	HORIZONTAL Peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



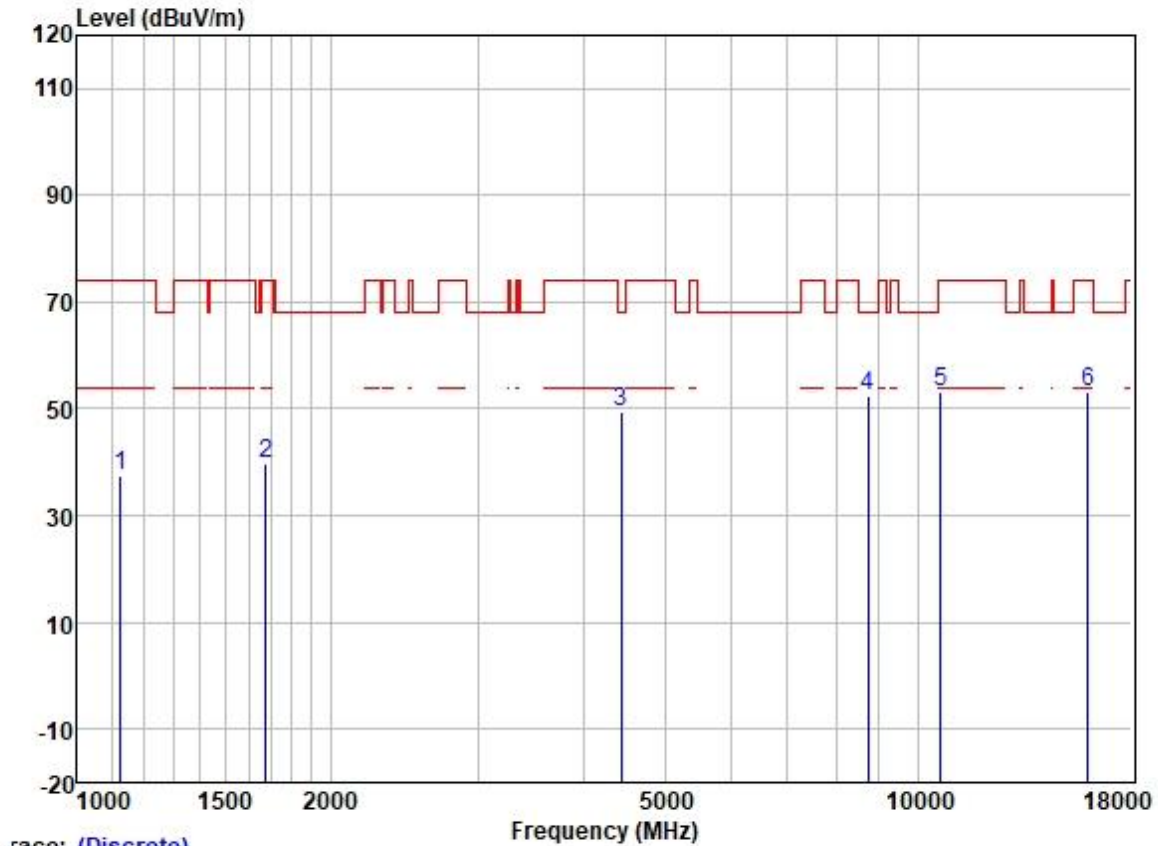
Trace: (Discrete)

	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	1213.677	48.53	24.77	2.32	38.37	37.25	74.00	-36.75	VERTICAL	Peak
2	1667.951	49.57	25.66	2.80	37.91	40.12	74.00	-33.88	VERTICAL	Peak
3	4316.859	51.72	30.51	4.66	36.81	50.08	74.00	-23.92	VERTICAL	Peak
4	8891.725	45.62	37.37	7.42	37.52	52.89	68.20	-15.31	VERTICAL	Peak
5	10600.000	43.15	39.59	7.46	37.34	52.86	68.20	-15.34	VERTICAL	Peak
6	15900.000	40.46	38.44	9.86	35.40	53.36	74.00	-20.64	VERTICAL	Peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11 n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

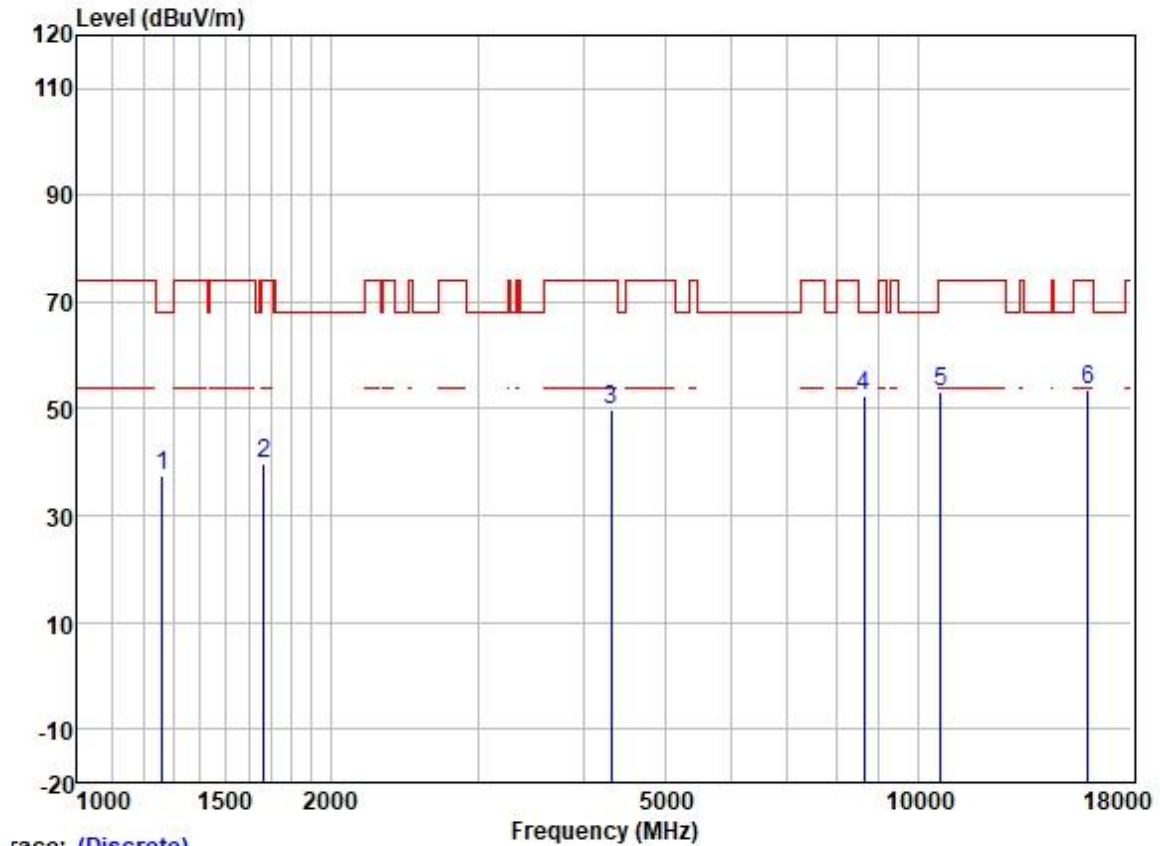
	Read	Antenna	Cable	Preamp	Limit	Over				
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1125.813	49.26	24.42	2.21	38.43	37.46	74.00	-36.54	HORIZONTAL	Peak
2	1677.621	49.25	25.68	2.80	37.91	39.82	74.00	-34.18	HORIZONTAL	Peak
3	4443.453	50.82	30.73	4.83	36.81	49.57	68.20	-18.63	HORIZONTAL	Peak
4	8738.852	45.46	37.31	7.13	37.54	52.36	68.20	-15.84	HORIZONTAL	Peak
5	10640.000	43.30	39.63	7.48	37.33	53.08	74.00	-20.92	HORIZONTAL	Peak
6	15960.000	40.41	38.37	9.85	35.40	53.23	74.00	-20.77	HORIZONTAL	Peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



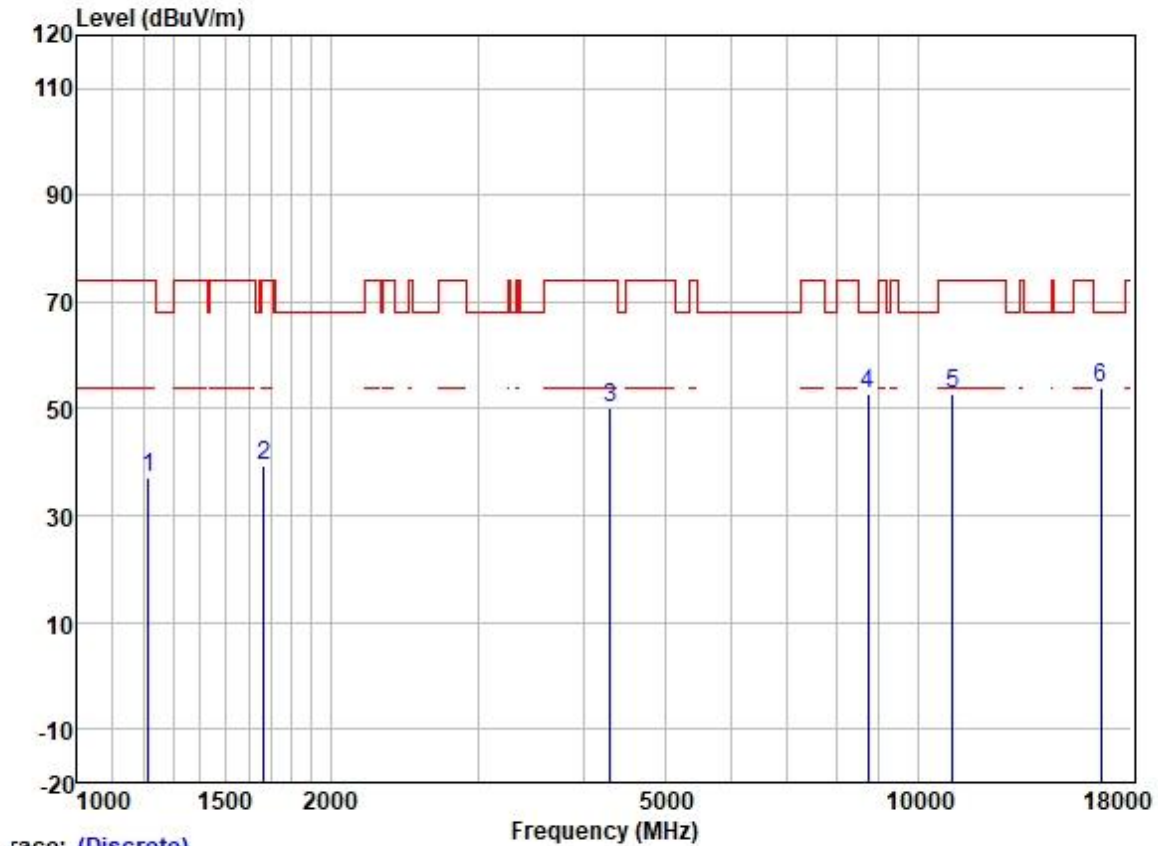
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	1263.796	48.25	25.08	2.42	38.33	37.42	68.20	-30.78 VERTICAL Peak
2	1667.951	49.08	25.66	2.80	37.91	39.63	74.00	-34.37 VERTICAL Peak
3	4316.859	51.27	30.51	4.66	36.81	49.63	74.00	-24.37 VERTICAL Peak
4	8638.399	45.96	37.26	6.92	37.55	52.59	68.20	-15.61 VERTICAL Peak
5	10640.000	43.51	39.63	7.48	37.33	53.29	74.00	-20.71 VERTICAL Peak
6	15960.000	40.71	38.37	9.85	35.40	53.53	74.00	-20.47 VERTICAL Peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

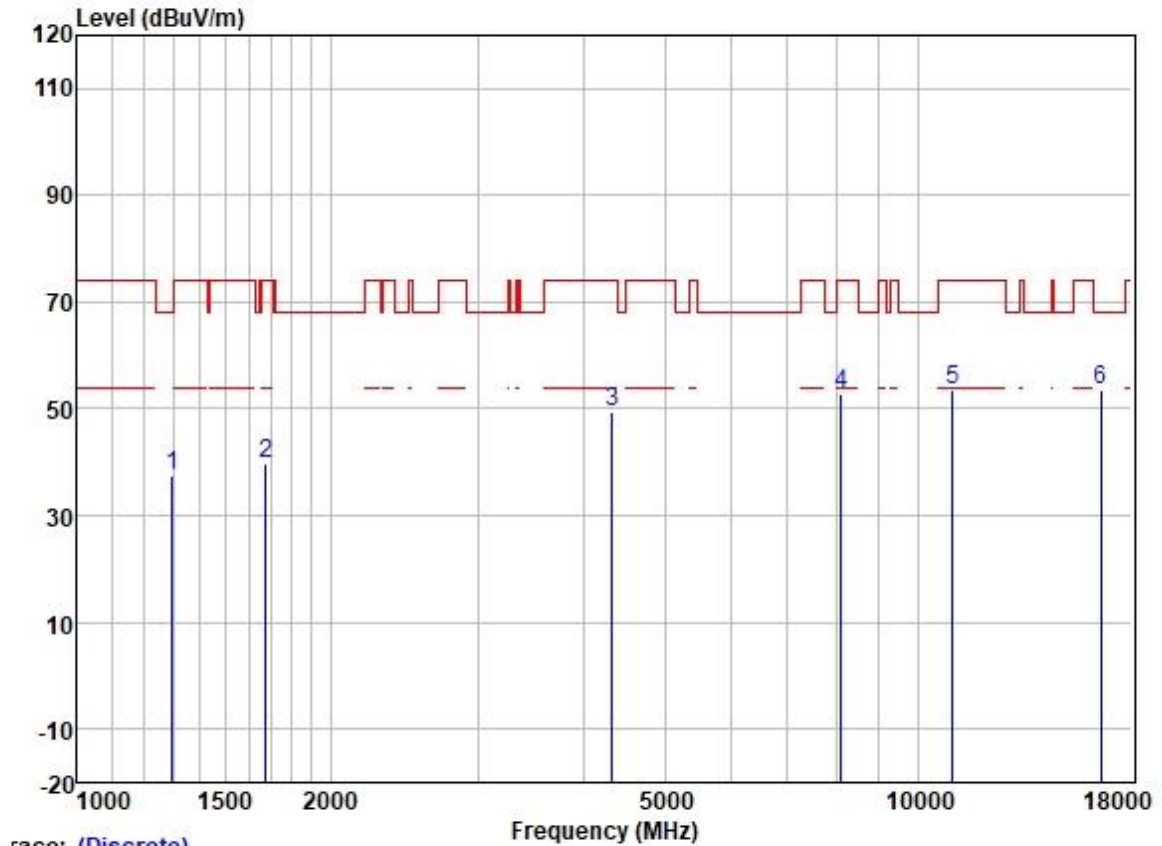
	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1213.677	48.57	24.77	2.32	38.37	37.29	74.00	-36.71	HORIZONTAL Peak
2	1667.951	48.93	25.66	2.80	37.91	39.48	74.00	-34.52	HORIZONTAL Peak
3	4304.400	51.90	30.48	4.65	36.81	50.22	74.00	-23.78	HORIZONTAL Peak
4	8738.852	45.91	37.31	7.13	37.54	52.81	68.20	-15.39	HORIZONTAL Peak
5	11000.000	42.36	40.10	7.71	37.25	52.92	74.00	-21.08	HORIZONTAL Peak
6	16500.000	40.23	39.60	9.44	35.38	53.89	68.20	-14.31	HORIZONTAL Peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



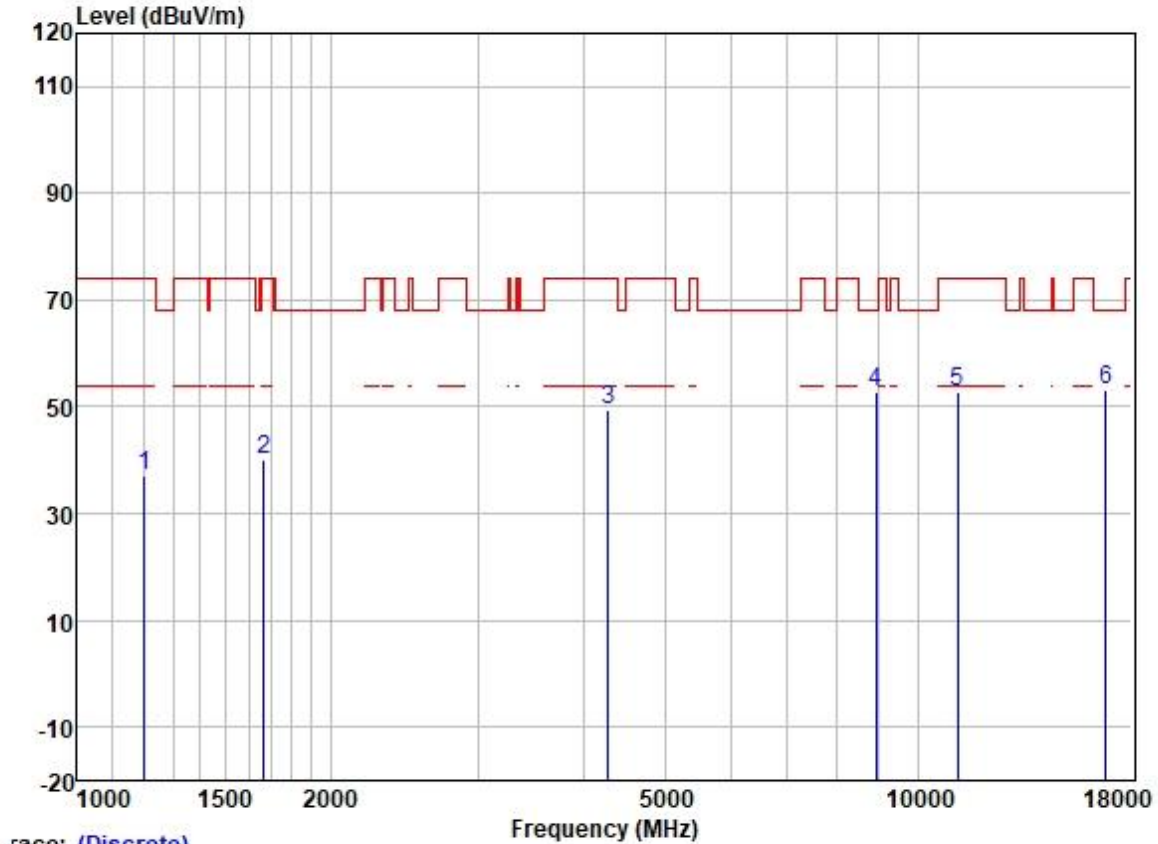
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1297.103	47.86	25.19	2.58	38.31	37.32	68.20 -30.88	VERTICAL	Peak
2	1677.621	49.13	25.68	2.80	37.91	39.70	74.00 -34.30	VERTICAL	Peak
3	4329.354	50.97	30.54	4.67	36.81	49.37	74.00 -24.63	VERTICAL	Peak
4	8106.200	47.11	36.94	6.25	37.59	52.71	74.00 -21.29	VERTICAL	Peak
5	11000.000	43.15	40.10	7.71	37.25	53.71	74.00 -20.29	VERTICAL	Peak
6	16500.000	40.04	39.60	9.44	35.38	53.70	68.20 -14.50	VERTICAL	Peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



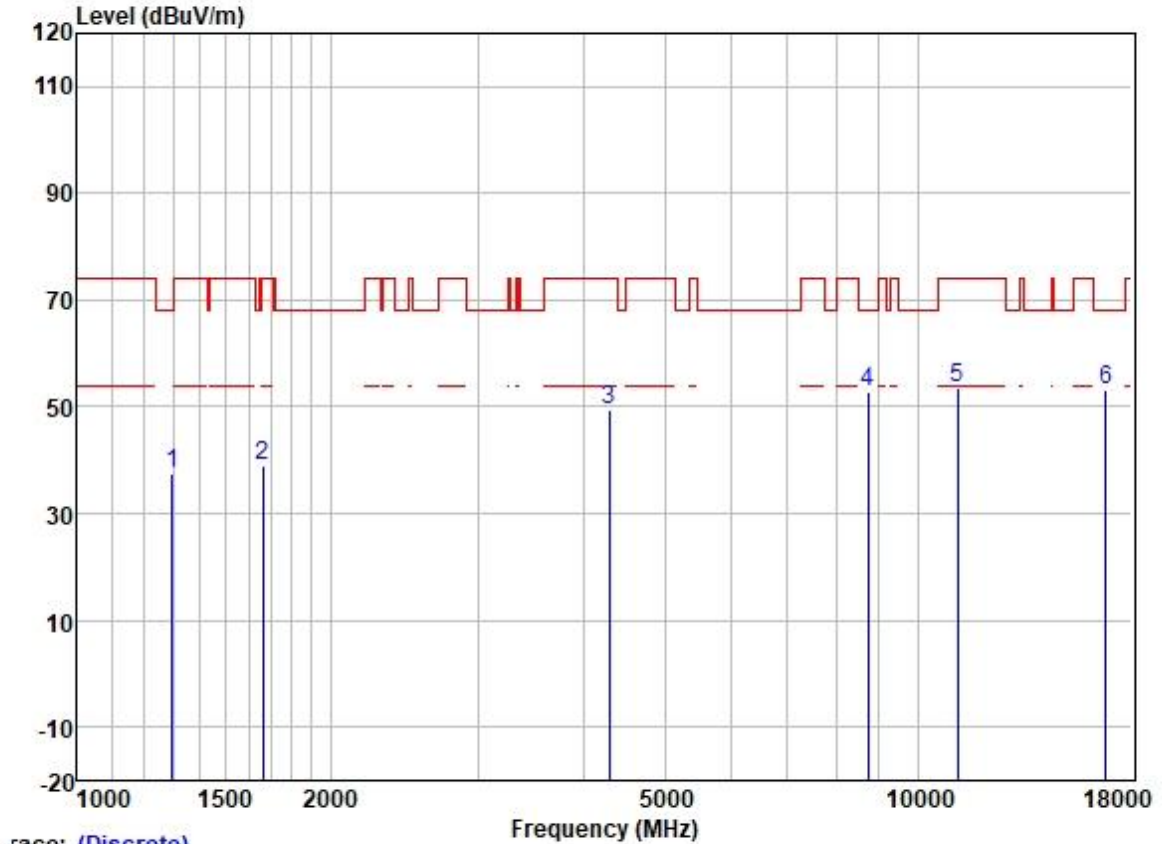
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1203.199	48.51	24.70	2.34	38.39	37.16	74.00 -36.84	HORIZONTAL	Peak
2	1667.951	49.58	25.66	2.80	37.91	40.13	74.00 -33.87	HORIZONTAL	Peak
3	4279.589	51.06	30.42	4.63	36.81	49.30	74.00 -24.70	HORIZONTAL	Peak
4	8917.462	45.60	37.38	7.46	37.52	52.92	68.20 -15.28	HORIZONTAL	Peak
5	11160.000	42.11	40.04	7.90	37.21	52.84	74.00 -21.16	HORIZONTAL	Peak
6	16740.000	38.55	40.49	9.41	35.37	53.08	68.20 -15.12	HORIZONTAL	Peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



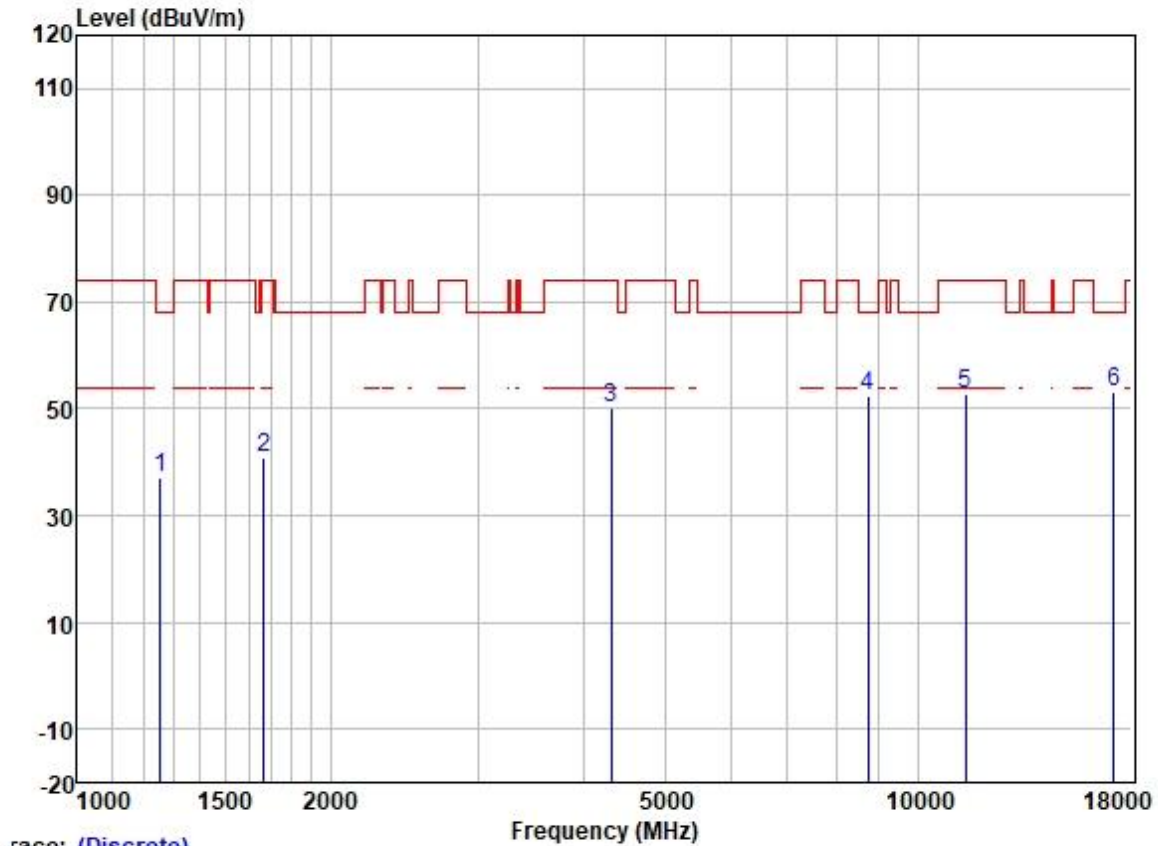
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1297.103	48.01	25.19	2.58	38.31	37.47	68.20	-30.73	VERTICAL Peak
2	1663.137	48.52	25.65	2.80	37.91	39.06	74.00	-34.94	VERTICAL Peak
3	4291.977	51.22	30.45	4.64	36.81	49.50	74.00	-24.50	VERTICAL Peak
4	8738.852	45.76	37.31	7.13	37.54	52.66	68.20	-15.54	VERTICAL Peak
5	11160.000	42.76	40.04	7.90	37.21	53.49	74.00	-20.51	VERTICAL Peak
6	16740.000	38.82	40.49	9.41	35.37	53.35	68.20	-14.85	VERTICAL Peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



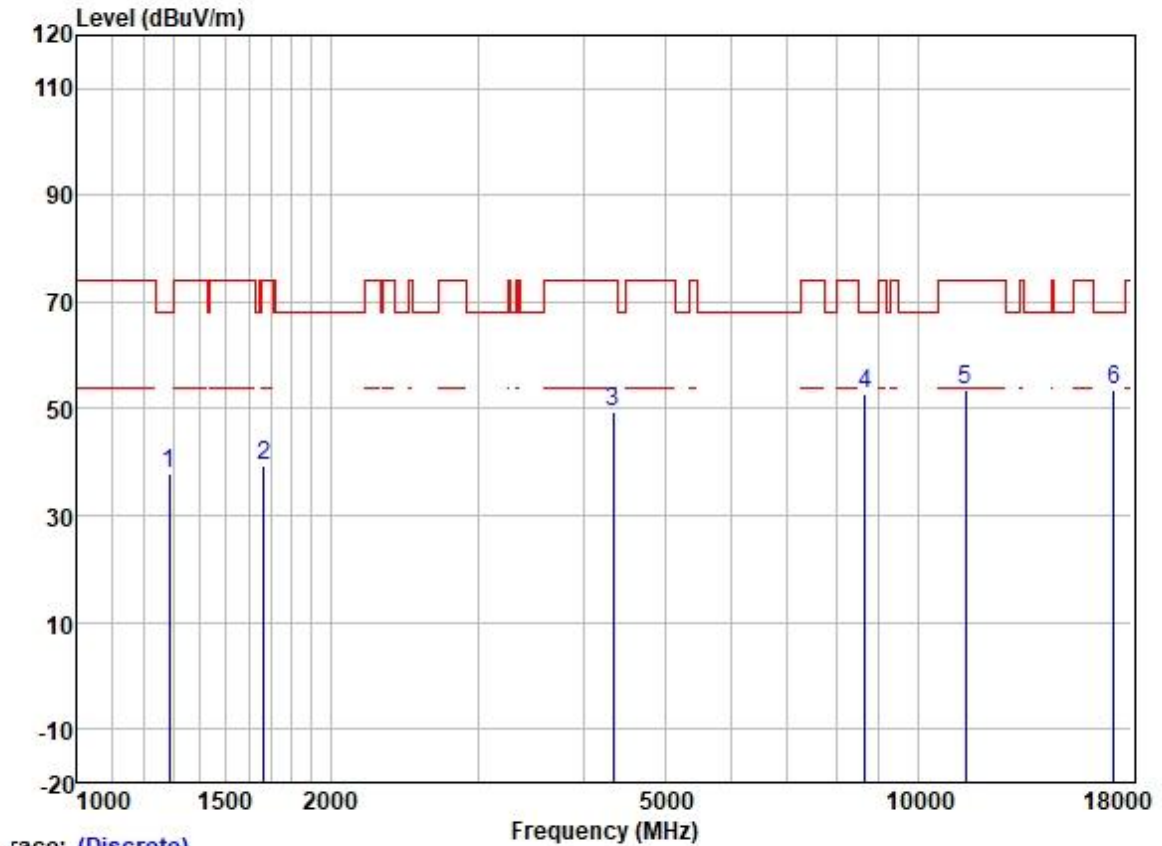
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1256.512	48.10	25.05	2.38	38.35	37.18	68.20	-31.02	HORIZONTAL Peak
2	1667.951	50.19	25.66	2.80	37.91	40.74	74.00	-33.26	HORIZONTAL Peak
3	4316.859	51.74	30.51	4.66	36.81	50.10	74.00	-23.90	HORIZONTAL Peak
4	8738.852	45.43	37.31	7.13	37.54	52.33	68.20	-15.87	HORIZONTAL Peak
5	11400.000	41.89	39.94	8.28	37.16	52.95	74.00	-21.05	HORIZONTAL Peak
6	17100.000	36.46	42.32	9.63	35.34	53.07	68.20	-15.13	HORIZONTAL Peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



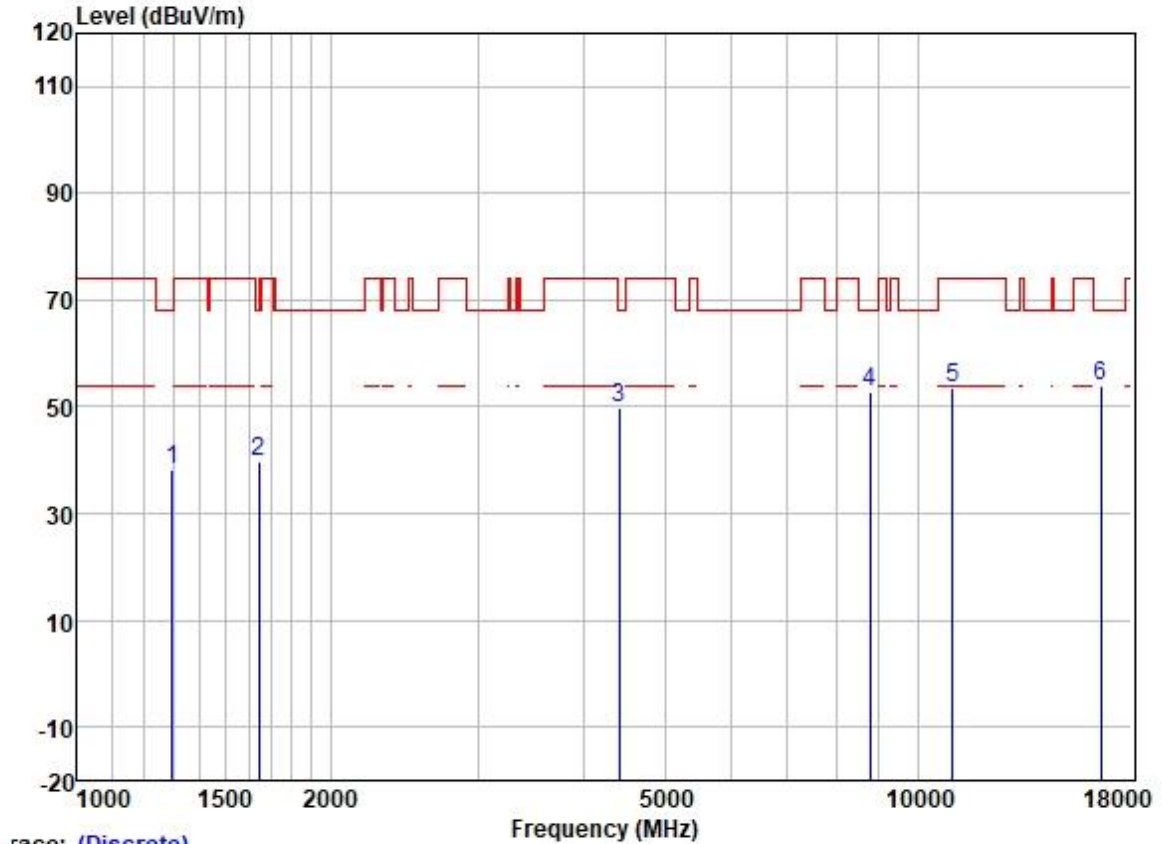
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1285.904	48.37	25.16	2.53	38.33	37.73	68.20 -30.47	VERTICAL	Peak
2	1667.951	48.90	25.66	2.80	37.91	39.45	74.00 -34.55	VERTICAL	Peak
3	4341.886	51.00	30.57	4.67	36.81	49.43	74.00 -24.57	VERTICAL	Peak
4	8663.404	46.28	37.27	6.97	37.55	52.97	68.20 -15.23	VERTICAL	Peak
5	11400.000	42.31	39.94	8.28	37.16	53.37	74.00 -20.63	VERTICAL	Peak
6	17100.000	37.02	42.32	9.63	35.34	53.63	68.20 -14.57	VERTICAL	Peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

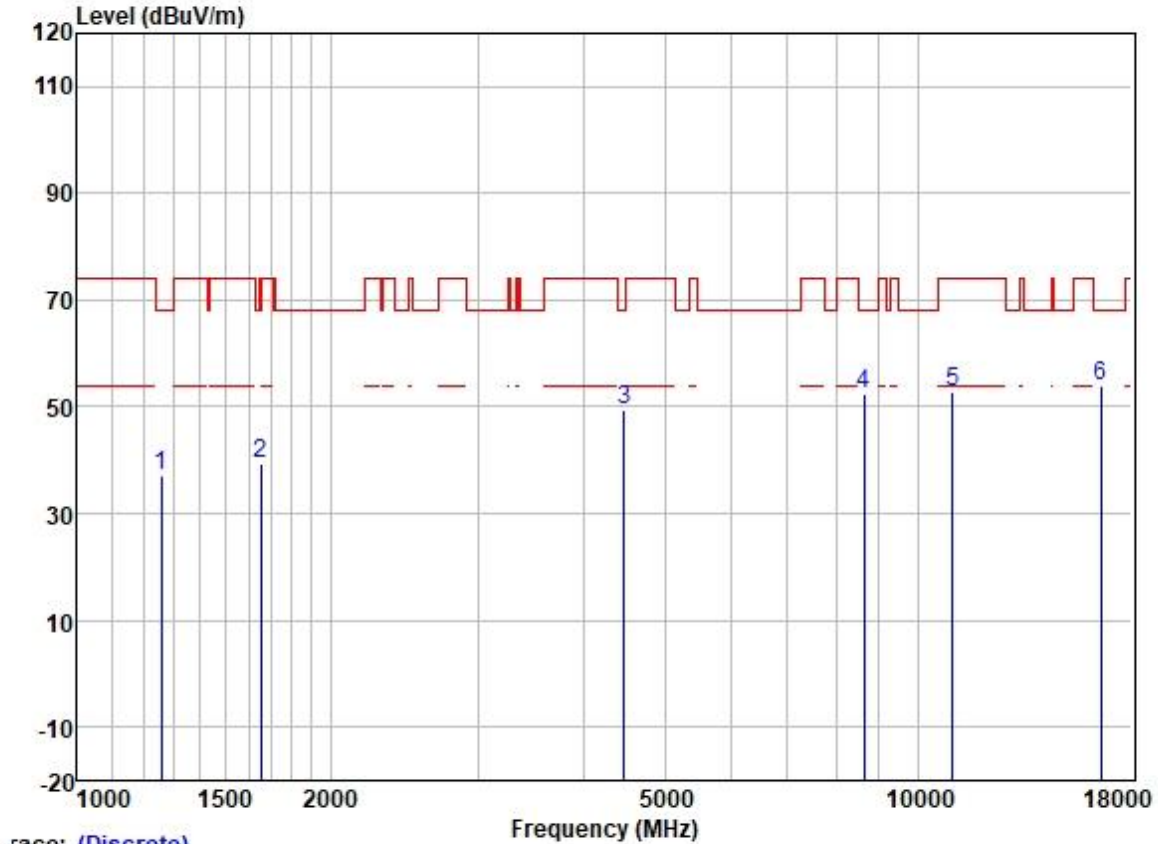
	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1297.103	48.95	25.19	2.58	38.31	38.41	68.20	-29.79	HORIZONTAL Peak
2	1644.019	49.18	25.63	2.80	37.93	39.68	68.20	-28.52	HORIZONTAL Peak
3	4417.841	51.34	30.70	4.74	36.81	49.97	68.20	-18.23	HORIZONTAL Peak
4	8764.146	45.65	37.32	7.19	37.54	52.62	68.20	-15.58	HORIZONTAL Peak
5	11000.000	42.93	40.10	7.71	37.25	53.49	74.00	-20.51	HORIZONTAL Peak
6	16500.000	40.12	39.60	9.44	35.38	53.78	68.20	-14.42	HORIZONTAL Peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

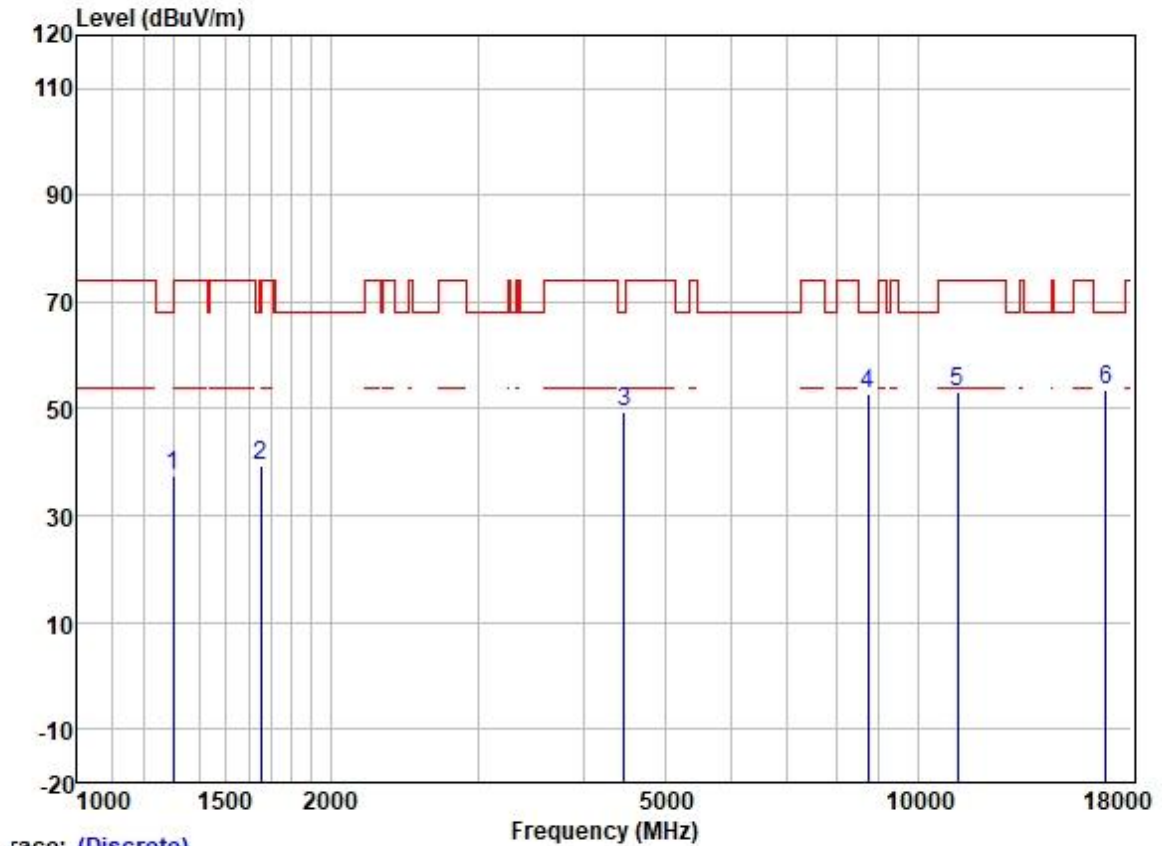
	Read	Antenna	Cable	Preamp	Limit	Over				
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1260.149	48.18	25.07	2.40	38.35	37.30	68.20	-30.90	VERTICAL	Peak
2	1653.550	48.97	25.64	2.80	37.93	39.48	68.20	-28.72	VERTICAL	Peak
3	4469.214	50.64	30.77	4.93	36.81	49.53	68.20	-18.67	VERTICAL	Peak
4	8638.399	45.82	37.26	6.92	37.55	52.45	68.20	-15.75	VERTICAL	Peak
5	11000.000	42.19	40.10	7.71	37.25	52.75	74.00	-21.25	VERTICAL	Peak
6	16500.000	40.15	39.60	9.44	35.38	53.81	68.20	-14.39	VERTICAL	Peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

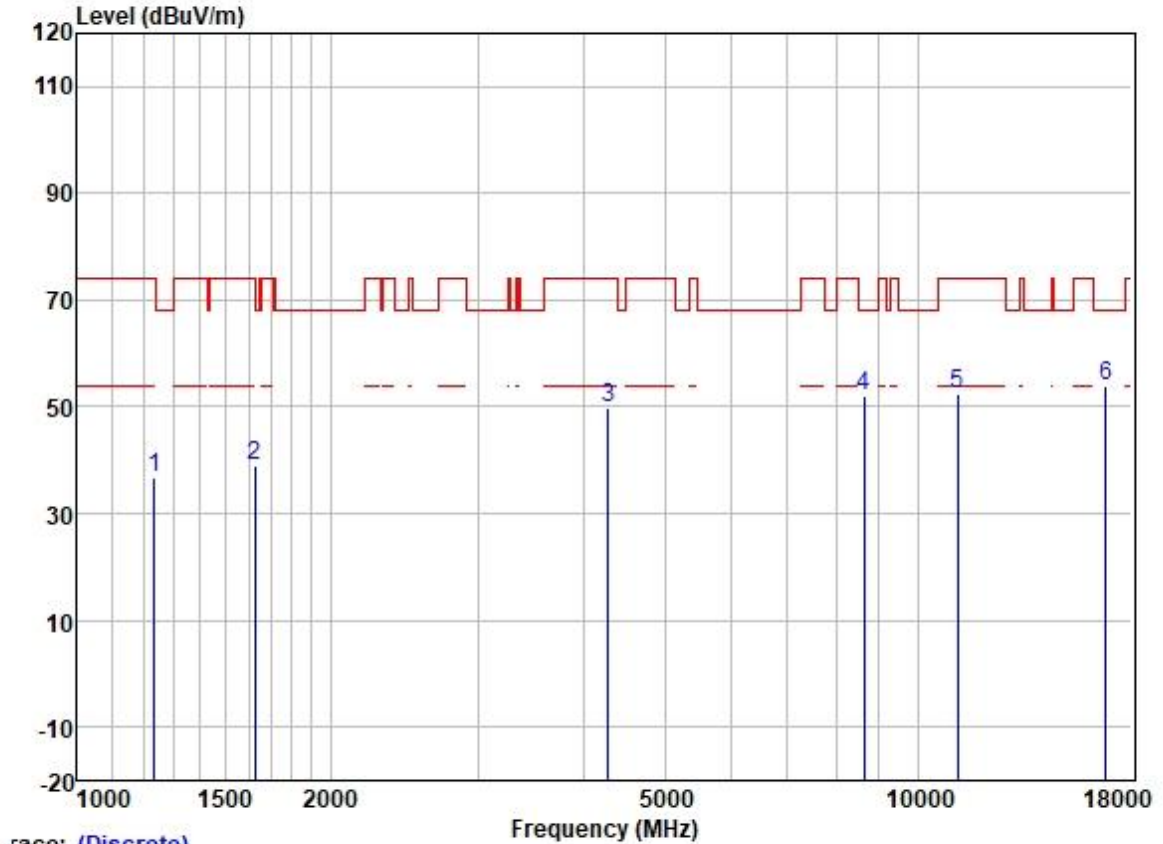
	Read	Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1300.858	47.97	25.20	2.60	38.31	37.46	74.00	-36.54	HORIZONTAL Peak
2	1653.550	48.97	25.64	2.80	37.93	39.48	68.20	-28.72	HORIZONTAL Peak
3	4469.214	50.73	30.77	4.93	36.81	49.62	68.20	-18.58	HORIZONTAL Peak
4	8738.852	45.78	37.31	7.13	37.54	52.68	68.20	-15.52	HORIZONTAL Peak
5	11160.000	42.57	40.04	7.90	37.21	53.30	74.00	-20.70	HORIZONTAL Peak
6	16740.000	39.08	40.49	9.41	35.37	53.61	68.20	-14.59	HORIZONTAL Peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



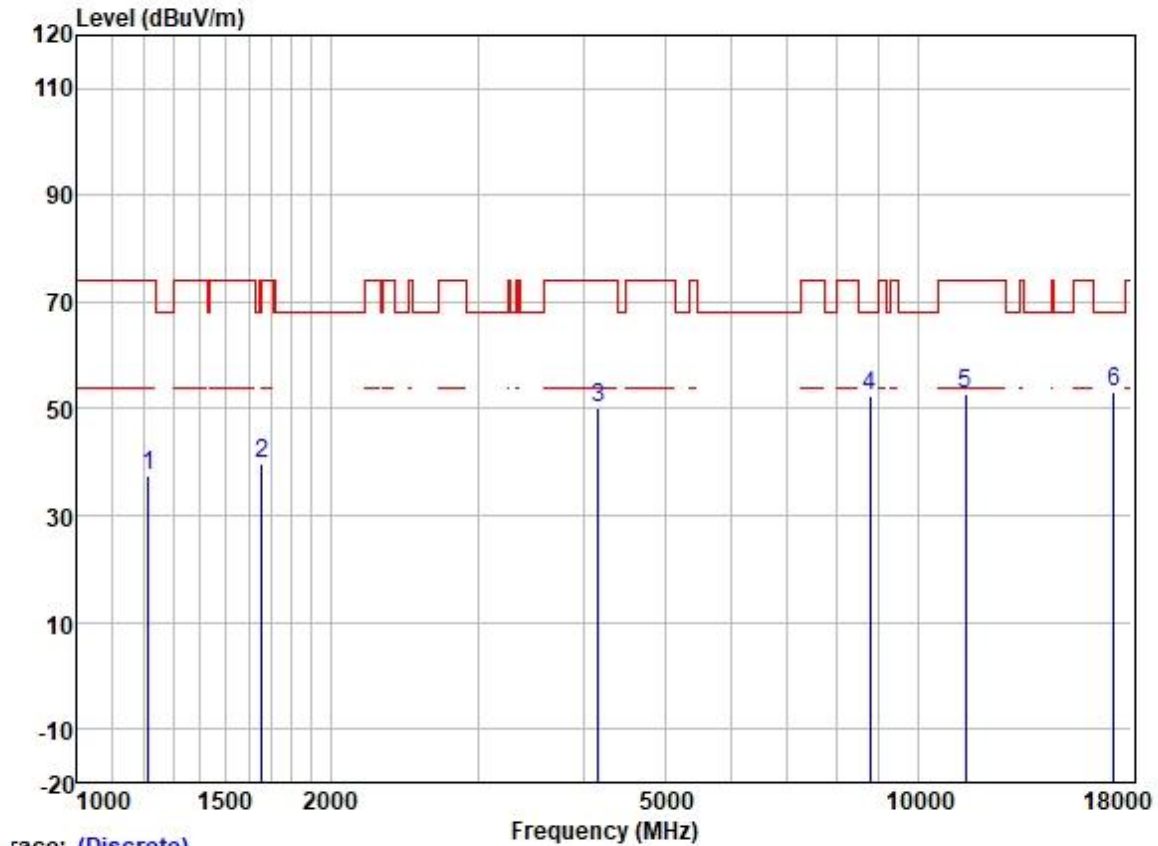
Trace: (Discrete)

	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	1234.909	48.02	24.93	2.30	38.37	36.88	74.00	-37.12	VERTICAL Peak
2	1625.121	48.55	25.61	2.80	37.95	39.01	74.00	-34.99	VERTICAL Peak
3	4279.589	51.59	30.42	4.63	36.81	49.83	74.00	-24.17	VERTICAL Peak
4	8638.399	45.34	37.26	6.92	37.55	51.97	68.20	-16.23	VERTICAL Peak
5	11160.000	41.86	40.04	7.90	37.21	52.59	74.00	-21.41	VERTICAL Peak
6	16740.000	39.29	40.49	9.41	35.37	53.82	68.20	-14.38	VERTICAL Peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



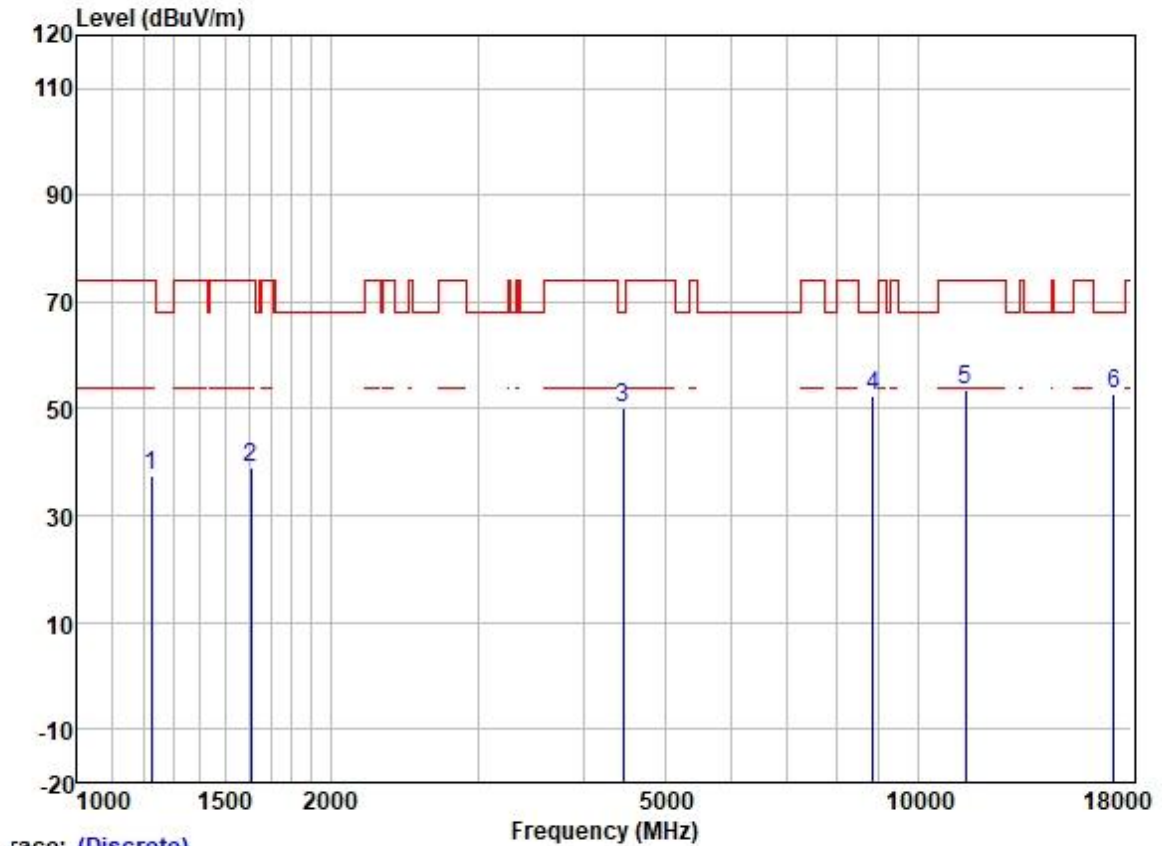
Trace: (Discrete)

	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	1213.677	48.84	24.77	2.32	38.37	37.56	74.00	-36.44	HORIZONTAL	Peak
2	1658.337	49.20	25.65	2.80	37.93	39.72	68.20	-28.48	HORIZONTAL	Peak
3	4169.698	52.13	30.09	4.60	36.80	50.02	74.00	-23.98	HORIZONTAL	Peak
4	8764.146	45.52	37.32	7.19	37.54	52.49	68.20	-15.71	HORIZONTAL	Peak
5	11400.000	41.77	39.94	8.28	37.16	52.83	74.00	-21.17	HORIZONTAL	Peak
6	17100.000	36.42	42.32	9.63	35.34	53.03	68.20	-15.17	HORIZONTAL	Peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



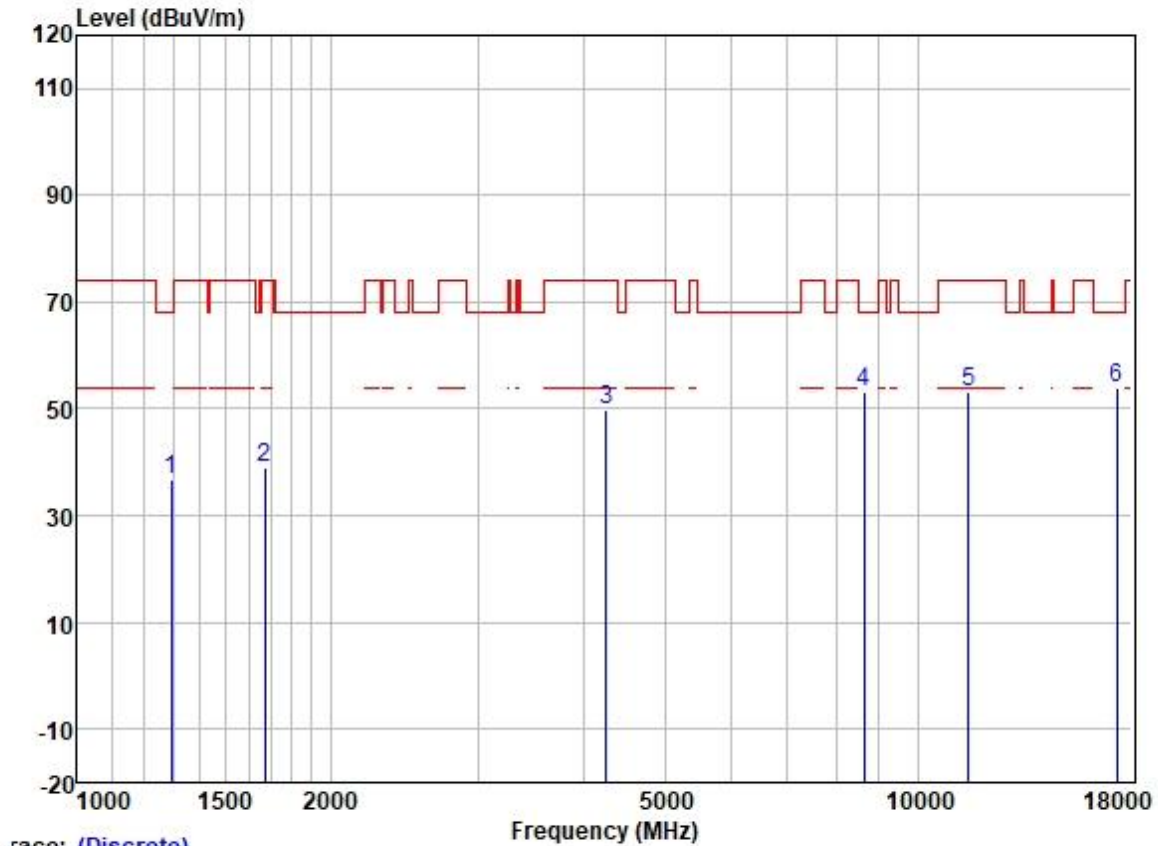
Trace: (Discrete)

	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	1224.247	48.70	24.85	2.31	38.37	37.49	74.00	-36.51	VERTICAL	Peak
2	1611.091	48.70	25.59	2.80	37.98	39.11	74.00	-34.89	VERTICAL	Peak
3	4456.315	51.50	30.75	4.88	36.81	50.32	68.20	-17.88	VERTICAL	Peak
4	8840.473	45.12	37.35	7.34	37.53	52.28	68.20	-15.92	VERTICAL	Peak
5	11400.000	42.46	39.94	8.28	37.16	53.52	74.00	-20.48	VERTICAL	Peak
6	17100.000	36.24	42.32	9.63	35.34	52.85	68.20	-15.35	VERTICAL	Peak



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



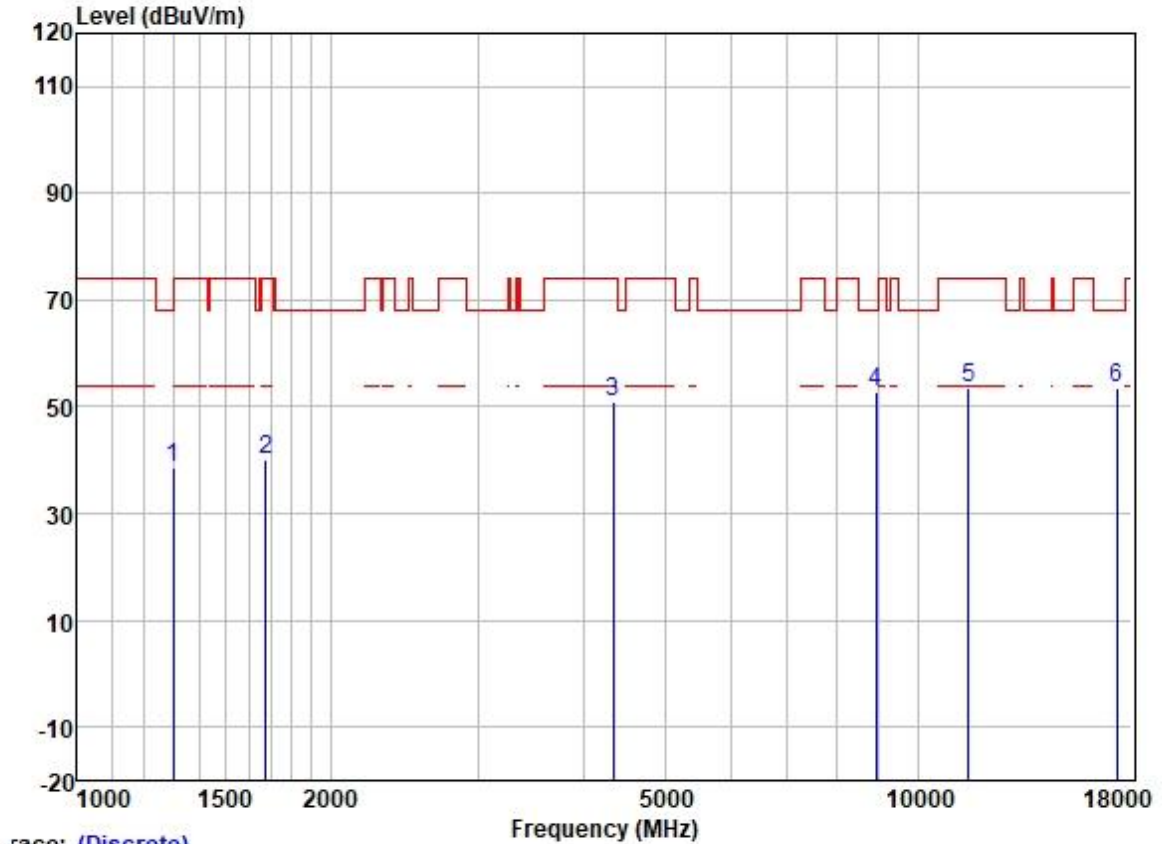
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1293.359	47.45	25.18	2.57	38.31	36.89	68.20	-31.31	HORIZONTAL Peak
2	1672.779	48.60	25.67	2.80	37.91	39.16	74.00	-34.84	HORIZONTAL Peak
3	4254.921	51.71	30.34	4.62	36.81	49.86	74.00	-24.14	HORIZONTAL Peak
4	8638.399	46.38	37.26	6.92	37.55	53.01	68.20	-15.19	HORIZONTAL Peak
5	11490.000	42.10	39.90	8.41	37.15	53.26	74.00	-20.74	HORIZONTAL Peak
6	17235.000	35.99	43.01	10.08	35.33	53.75	68.20	-14.45	HORIZONTAL Peak



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Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

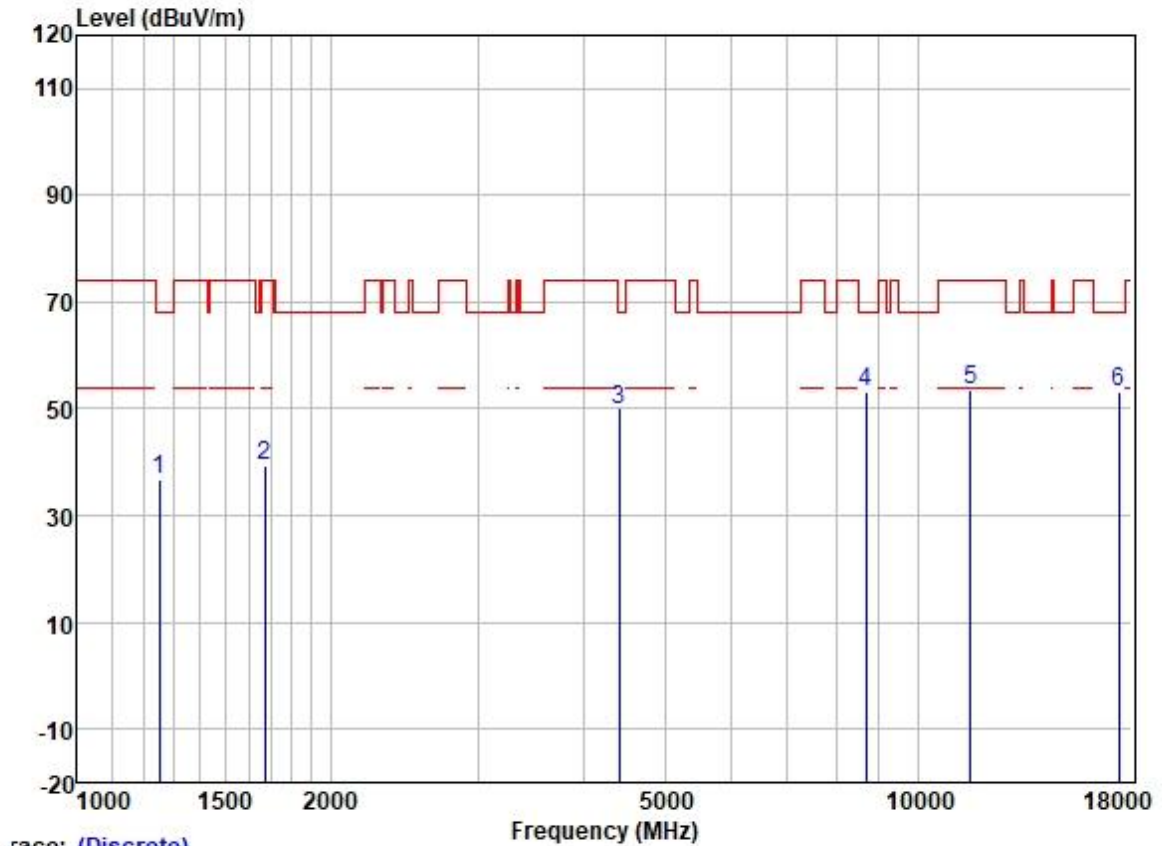
	Read	Antenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dB				
1	1300.858	49.10	25.20	2.60	38.31	38.59	74.00	-35.41	VERTICAL	Peak
2	1677.621	49.45	25.68	2.80	37.91	40.02	74.00	-33.98	VERTICAL	Peak
3	4341.886	52.57	30.57	4.67	36.81	51.00	74.00	-23.00	VERTICAL	Peak
4	8917.462	45.30	37.38	7.46	37.52	52.62	68.20	-15.58	VERTICAL	Peak
5	11490.000	42.50	39.90	8.41	37.15	53.66	74.00	-20.34	VERTICAL	Peak
6	17235.000	35.91	43.01	10.08	35.33	53.67	68.20	-14.53	VERTICAL	Peak



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



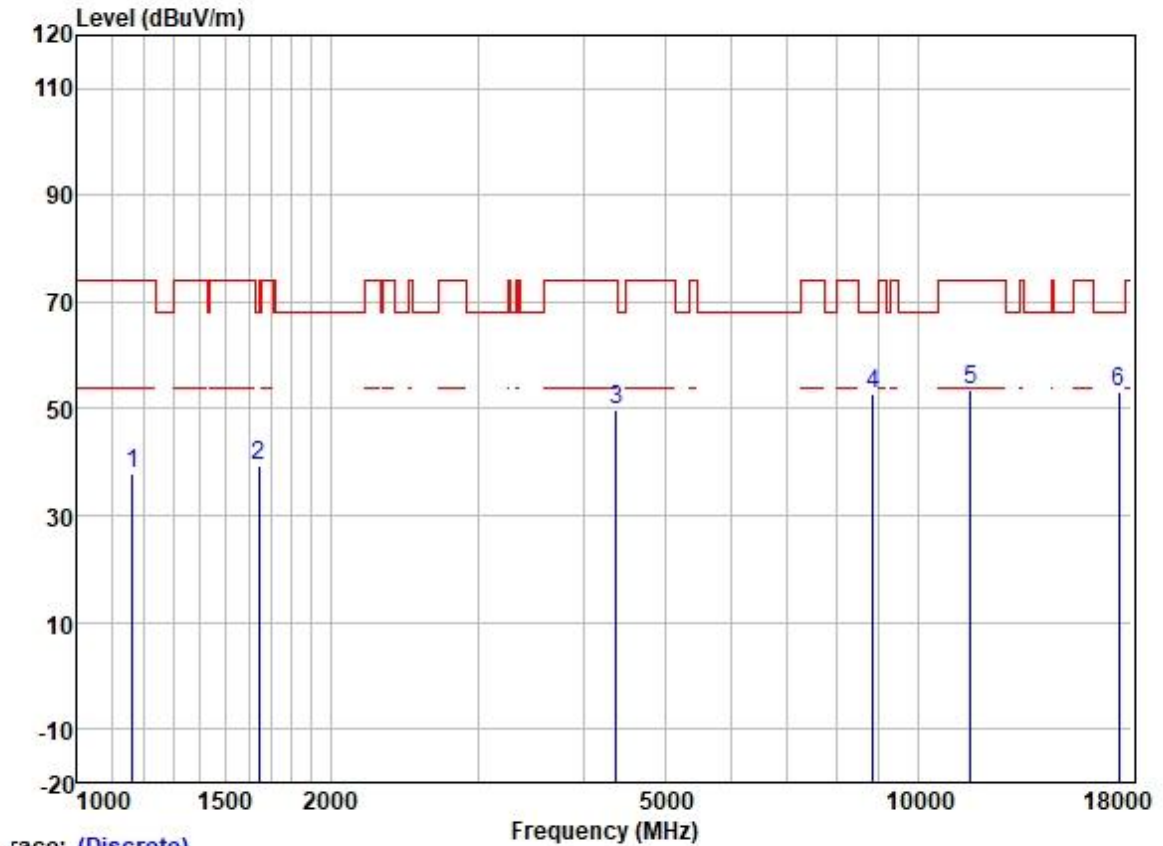
Trace: (Discrete)

	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	1252.885	47.79	25.03	2.36	38.35	36.83	68.20	-31.37	HORIZONTAL	Peak
2	1672.779	48.84	25.67	2.80	37.91	39.40	74.00	-34.60	HORIZONTAL	Peak
3	4417.841	51.37	30.70	4.74	36.81	50.00	68.20	-18.20	HORIZONTAL	Peak
4	8688.480	46.40	37.28	7.02	37.55	53.15	68.20	-15.05	HORIZONTAL	Peak
5	11570.000	42.45	39.78	8.38	37.14	53.47	74.00	-20.53	HORIZONTAL	Peak
6	17355.000	34.81	43.40	10.39	35.32	53.28	68.20	-14.92	HORIZONTAL	Peak



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Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



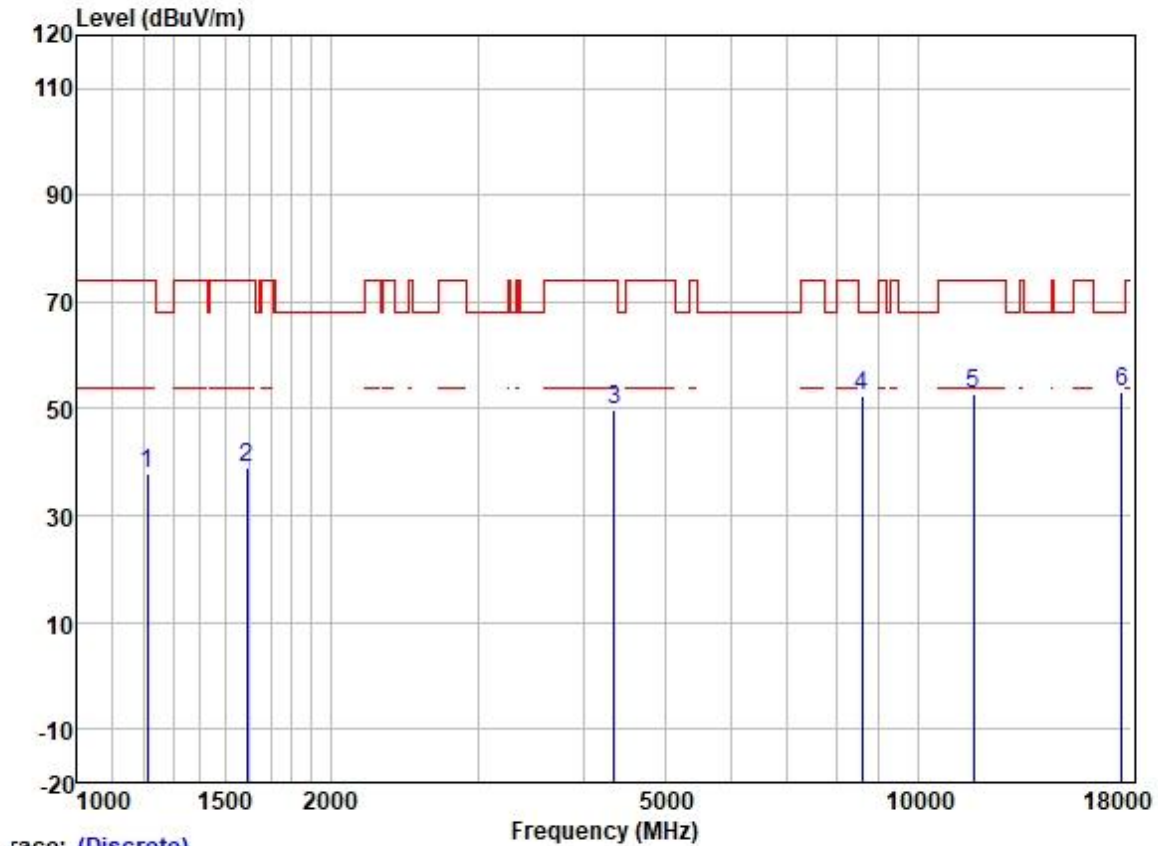
Trace: (Discrete)

	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	1162.182	49.19	24.53	2.40	38.42	37.70	74.00	-36.30	VERTICAL	Peak
2	1644.019	48.75	25.63	2.80	37.93	39.25	68.20	-28.95	VERTICAL	Peak
3	4379.699	51.43	30.64	4.69	36.81	49.95	74.00	-24.05	VERTICAL	Peak
4	8840.473	45.56	37.35	7.34	37.53	52.72	68.20	-15.48	VERTICAL	Peak
5	11570.000	42.71	39.78	8.38	37.14	53.73	74.00	-20.27	VERTICAL	Peak
6	17355.000	34.84	43.40	10.39	35.32	53.31	68.20	-14.89	VERTICAL	Peak



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11 a; Bandwidth:20MHz; Channel:High



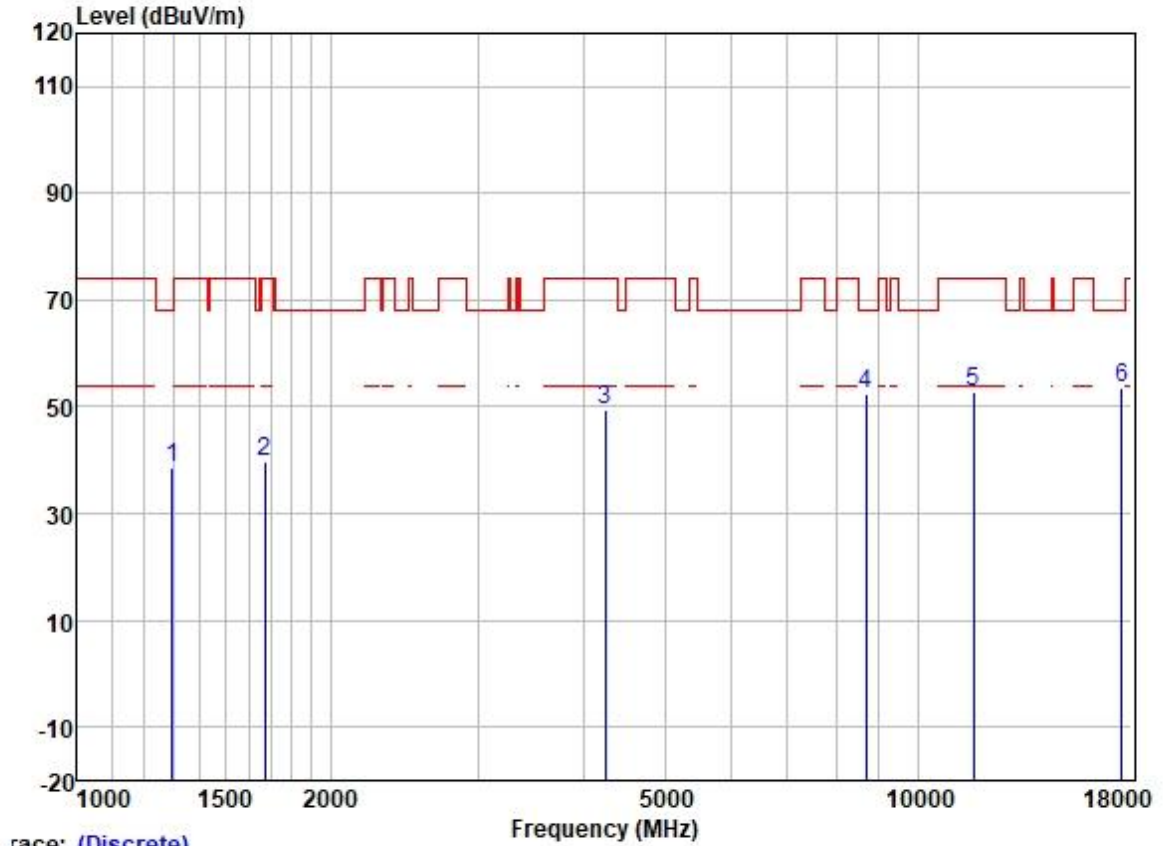
Trace: (Discrete)

	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	1210.174	49.00	24.74	2.33	38.39	37.68	74.00	-36.32	HORIZONTAL Peak
2	1592.571	48.52	25.57	2.80	37.98	38.91	74.00	-35.09	HORIZONTAL Peak
3	4354.454	51.24	30.59	4.68	36.81	49.70	74.00	-24.30	HORIZONTAL Peak
4	8588.607	45.98	37.23	6.84	37.56	52.49	68.20	-15.71	HORIZONTAL Peak
5	11650.000	42.09	39.65	8.35	37.13	52.96	74.00	-21.04	HORIZONTAL Peak
6	17475.000	33.78	43.90	10.77	35.32	53.13	68.20	-15.07	HORIZONTAL Peak



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Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



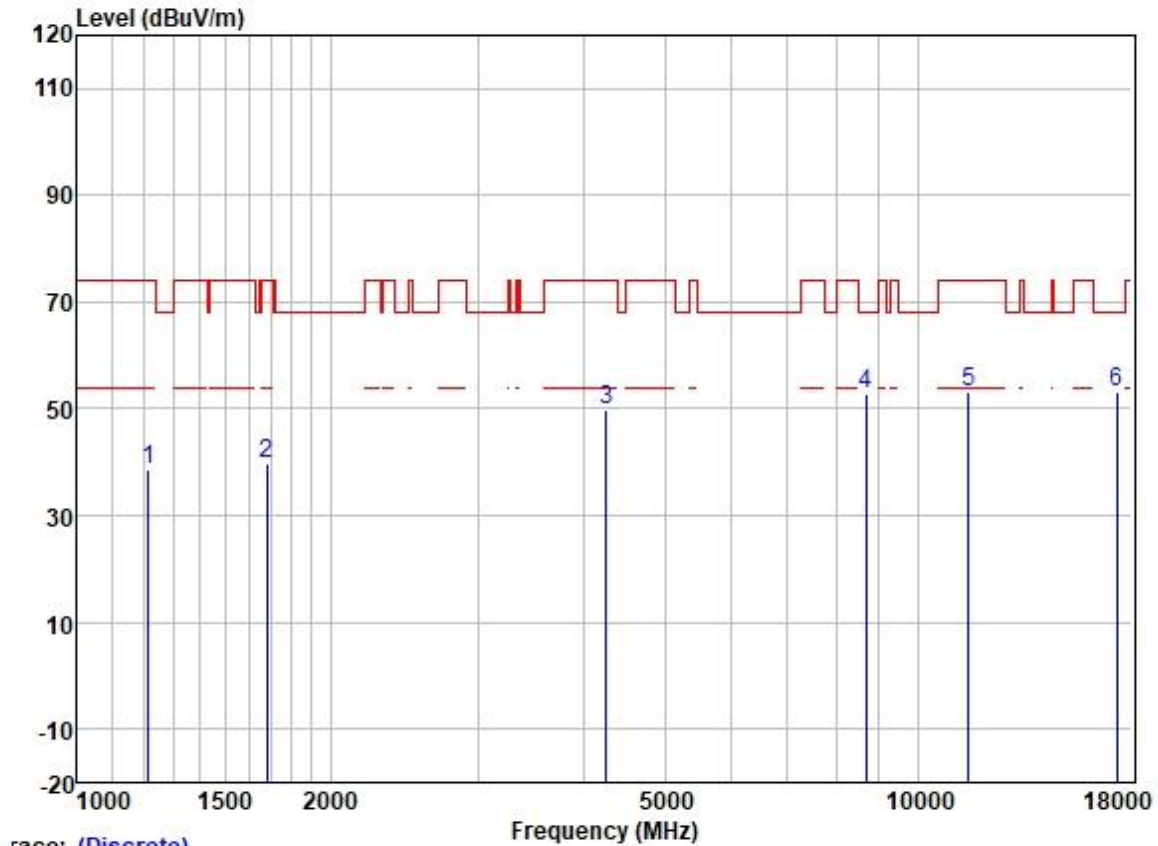
Trace: (Discrete)

	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	1297.103	49.06	25.19	2.58	38.31	38.52	68.20	-29.68	VERTICAL Peak
2	1672.779	49.05	25.67	2.80	37.91	39.61	74.00	-34.39	VERTICAL Peak
3	4242.641	51.28	30.30	4.62	36.81	49.39	74.00	-24.61	VERTICAL Peak
4	8688.480	45.52	37.28	7.02	37.55	52.27	68.20	-15.93	VERTICAL Peak
5	11650.000	41.93	39.65	8.35	37.13	52.80	74.00	-21.20	VERTICAL Peak
6	17475.000	34.18	43.90	10.77	35.32	53.53	68.20	-14.67	VERTICAL Peak



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



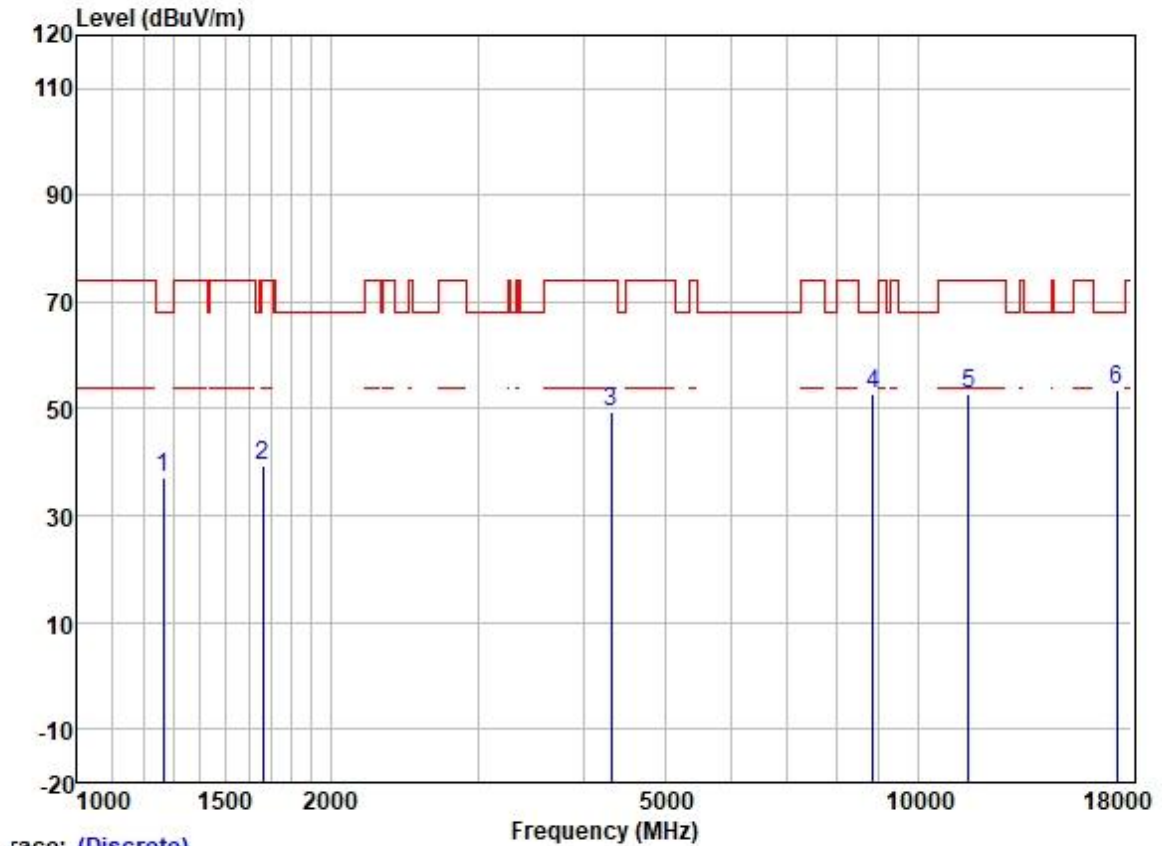
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1213.677	50.00	24.77	2.32	38.37	38.72	74.00	-35.28	HORIZONTAL Peak
2	1682.477	49.16	25.68	2.80	37.91	39.73	74.00	-34.27	HORIZONTAL Peak
3	4254.921	51.50	30.34	4.62	36.81	49.65	74.00	-24.35	HORIZONTAL Peak
4	8688.480	45.90	37.28	7.02	37.55	52.65	68.20	-15.55	HORIZONTAL Peak
5	11490.000	42.00	39.90	8.41	37.15	53.16	74.00	-20.84	HORIZONTAL Peak
6	17235.000	35.39	43.01	10.08	35.33	53.15	68.20	-15.05	HORIZONTAL Peak



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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

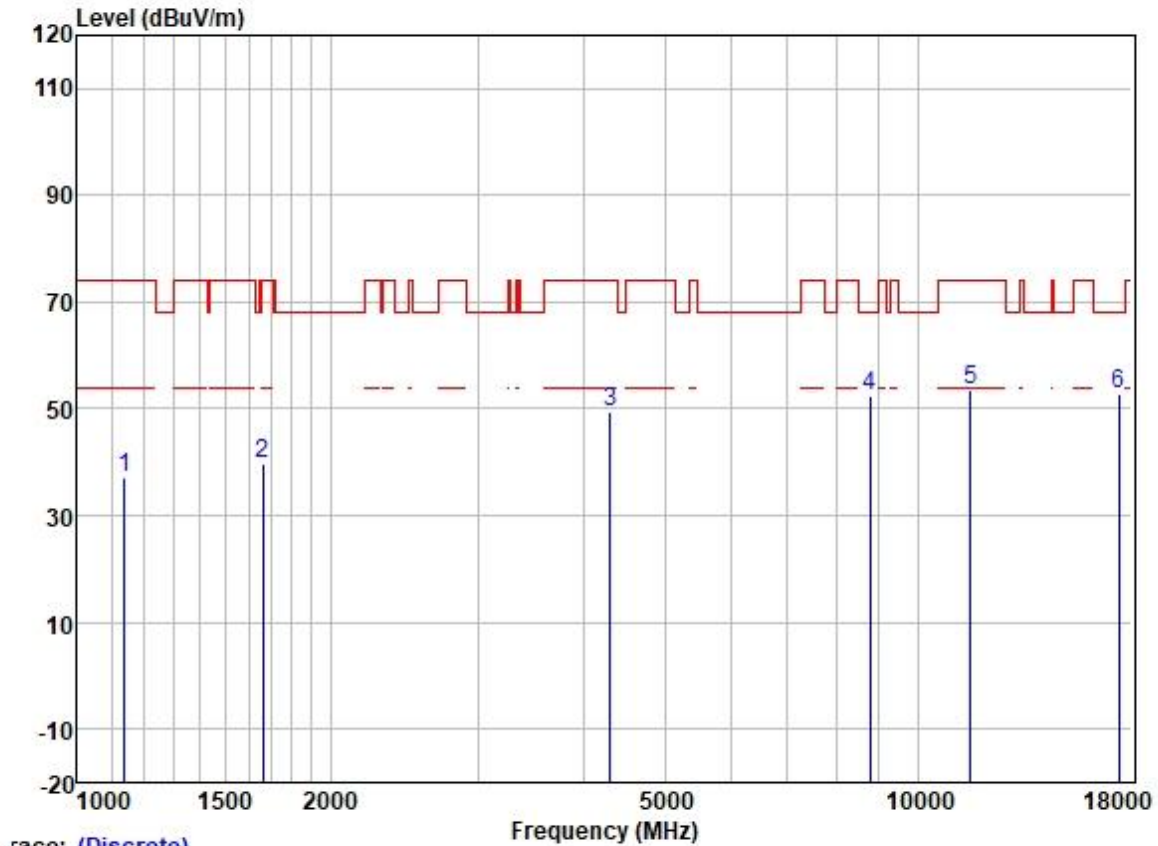
	Read	Antenna	Cable	Preamp	Limit	Over				
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1267.454	47.96	25.10	2.44	38.33	37.17	68.20	-31.03	VERTICAL	Peak
2	1663.137	48.86	25.65	2.80	37.91	39.40	74.00	-34.60	VERTICAL	Peak
3	4316.859	50.99	30.51	4.66	36.81	49.35	74.00	-24.65	VERTICAL	Peak
4	8840.473	45.58	37.35	7.34	37.53	52.74	68.20	-15.46	VERTICAL	Peak
5	11490.000	41.70	39.90	8.41	37.15	52.86	74.00	-21.14	VERTICAL	Peak
6	17235.000	35.93	43.01	10.08	35.33	53.69	68.20	-14.51	VERTICAL	Peak



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



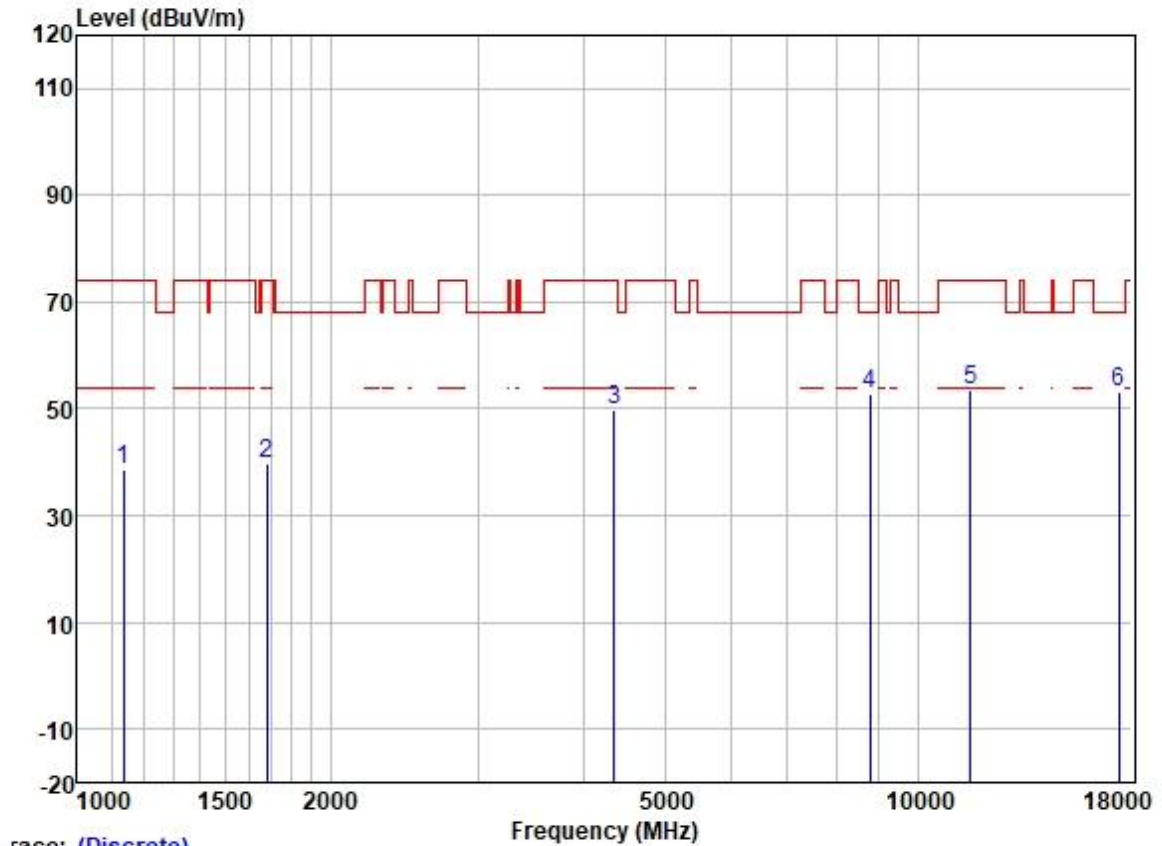
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1138.904	48.93	24.46	2.27	38.42	37.24	74.00 -36.76	HORIZONTAL	Peak
2	1663.137	49.12	25.65	2.80	37.91	39.66	74.00 -34.34	HORIZONTAL	Peak
3	4304.400	51.23	30.48	4.65	36.81	49.55	74.00 -24.45	HORIZONTAL	Peak
4	8764.146	45.59	37.32	7.19	37.54	52.56	68.20 -15.64	HORIZONTAL	Peak
5	11570.000	42.50	39.78	8.38	37.14	53.52	74.00 -20.48	HORIZONTAL	Peak
6	17355.000	34.45	43.40	10.39	35.32	52.92	68.20 -15.28	HORIZONTAL	Peak



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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



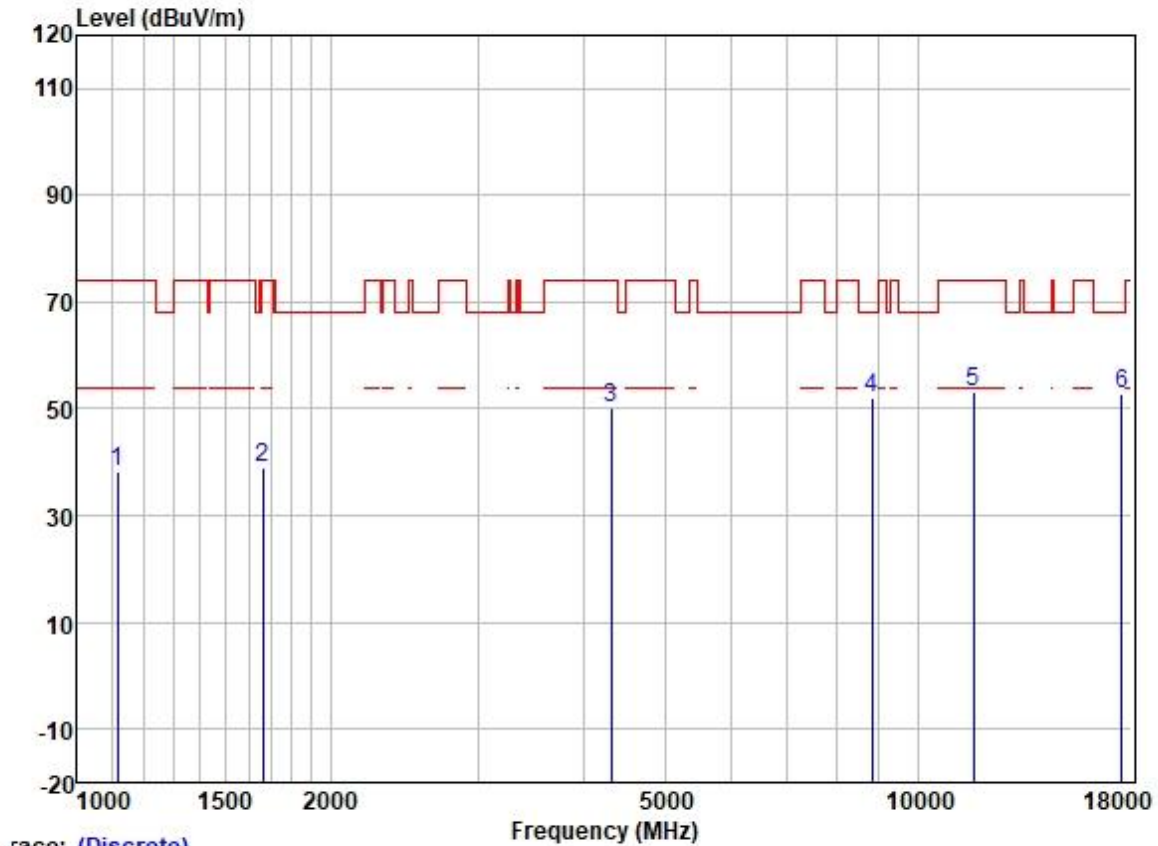
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1135.617	50.35	24.45	2.25	38.43	38.62	74.00 -35.38	VERTICAL	Peak
2	1682.477	48.98	25.68	2.80	37.91	39.55	74.00 -34.45	VERTICAL	Peak
3	4354.454	51.29	30.59	4.68	36.81	49.75	74.00 -24.25	VERTICAL	Peak
4	8764.146	45.91	37.32	7.19	37.54	52.88	68.20 -15.32	VERTICAL	Peak
5	11570.000	42.68	39.78	8.38	37.14	53.70	74.00 -20.30	VERTICAL	Peak
6	17355.000	34.79	43.40	10.39	35.32	53.26	68.20 -14.94	VERTICAL	Peak



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Test Mode: 08; Polarity: Horizontal; Modulation:802.11 n; Bandwidth:20MHz; Channel:High



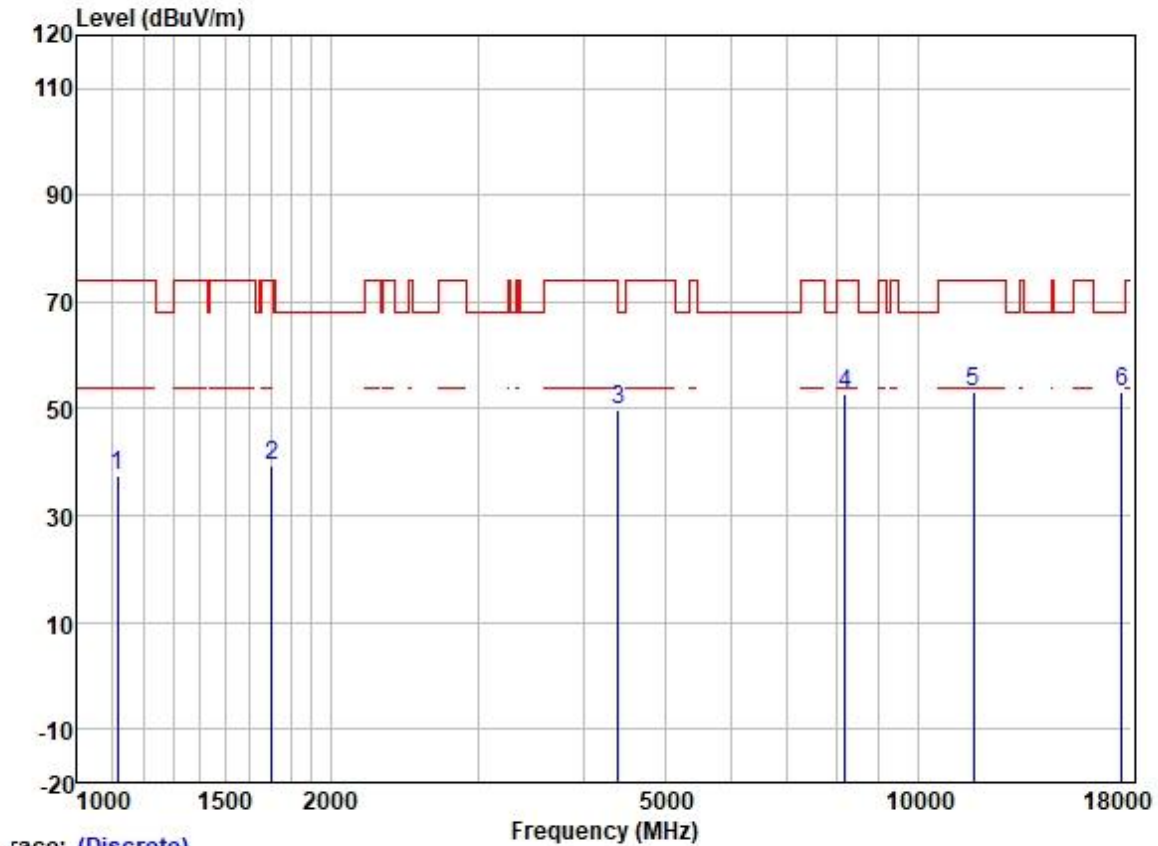
Trace: (Discrete)

	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	1116.093	49.85	24.40	2.25	38.43	38.07	74.00	-35.93	HORIZONTAL Peak
2	1663.137	48.31	25.65	2.80	37.91	38.85	74.00	-35.15	HORIZONTAL Peak
3	4316.859	51.82	30.51	4.66	36.81	50.18	74.00	-23.82	HORIZONTAL Peak
4	8814.957	45.11	37.34	7.29	37.53	52.21	68.20	-15.99	HORIZONTAL Peak
5	11650.000	42.38	39.65	8.35	37.13	53.25	74.00	-20.75	HORIZONTAL Peak
6	17475.000	33.53	43.90	10.77	35.32	52.88	68.20	-15.32	HORIZONTAL Peak



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Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dB				
1	1116.093	49.28	24.40	2.25	38.43	37.50	74.00	-36.50	VERTICAL	Peak
2	1702.042	48.87	25.72	2.80	37.89	39.50	74.00	-34.50	VERTICAL	Peak
3	4405.090	51.34	30.68	4.70	36.81	49.91	68.20	-18.29	VERTICAL	Peak
4	8200.463	46.96	36.98	6.36	37.59	52.71	74.00	-21.29	VERTICAL	Peak
5	11650.000	42.22	39.65	8.35	37.13	53.09	74.00	-20.91	VERTICAL	Peak
6	17475.000	33.80	43.90	10.77	35.32	53.15	68.20	-15.05	VERTICAL	Peak



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR2212001583TX

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2212001583TX



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.398	1.845	75.77	1.20	0.06
		5200	1.397	1.494	93.51	0.29	0.04
		5240	1.398	1.495	93.51	0.29	0.03
		5260	1.398	1.495	93.51	0.29	0.03
		5300	1.397	1.495	93.44	0.29	0.06
		5320	1.397	1.845	75.72	1.21	0.06
		5500	1.398	1.495	93.51	0.29	0.03
		5580	1.397	1.494	93.51	0.29	0.03
		5700	1.398	1.845	75.77	1.20	0.04
		5745	1.397	1.494	93.51	0.29	0.05
		5785	1.398	1.495	93.51	0.29	0.03
5825	1.398	1.846	75.73	1.21	0.04		
802.11n (HT20)	MIMO	5180	0.169	0.263	64.26	1.92	0.13
		5200	0.166	0.263	63.12	2.00	0.06
		5240	0.166	0.263	63.12	2.00	0.10
		5260	0.165	0.263	62.74	2.02	0.10
		5300	0.166	0.263	63.12	2.00	0.06
		5320	0.166	0.263	63.12	2.00	0.06
		5500	0.166	0.262	63.36	1.98	0.04
		5580	0.166	0.263	63.12	2.00	0.08
		5700	0.166	0.262	63.36	1.98	0.04
		5745	0.166	0.263	63.12	2.00	0.09
		5785	0.166	0.263	63.12	2.00	0.06
5825	0.166	0.263	63.12	2.00	0.09		
802.11n (HT40)	MIMO	5190	0.074	0.171	43.27	3.64	0.06
		5230	0.073	0.171	42.69	3.70	0.07
		5270	0.075	0.172	43.60	3.60	0.08
		5310	0.073	0.171	42.69	3.70	0.09
		5510	0.073	0.171	42.69	3.70	0.15
5550	0.074	0.171	43.27	3.64	0.06		



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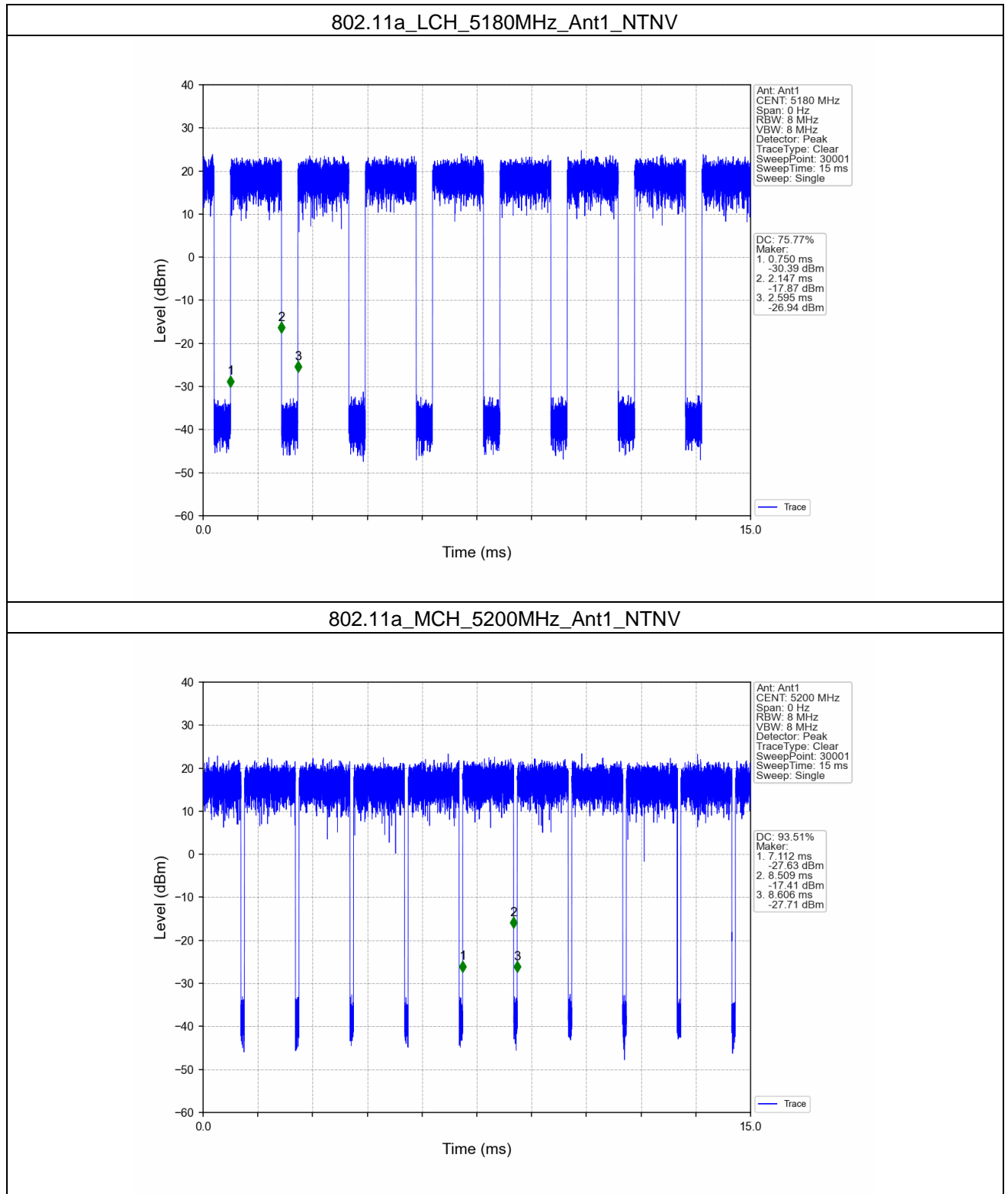
		5670	0.073	0.171	42.69	3.70	0.11		
		5755	0.074	0.171	43.27	3.64	0.11		
		5795	0.073	0.171	42.69	3.70	0.12		
802.11ac (VHT20)	MIMO	5180	0.152	0.247	61.54	2.11	0.13		
		5200	0.149	0.247	60.32	2.20	0.07		
		5240	1.318	1.415	93.14	0.31	0.03		
		5260	0.150	0.247	60.73	2.17	0.04		
		5300	1.318	1.415	93.14	0.31	0.03		
		5320	1.318	1.415	93.14	0.31	0.03		
		5500	1.318	1.415	93.14	0.31	0.03		
		5580	1.318	1.415	93.14	0.31	0.03		
		5700	1.317	1.414	93.14	0.31	0.03		
		5745	1.318	1.415	93.14	0.31	0.03		
		5785	1.318	1.415	93.14	0.31	0.03		
		5825	1.317	1.415	93.07	0.31	0.03		
		802.11ac (VHT40)	MIMO	5190	0.094	0.191	49.21	3.08	0.09
				5230	0.092	0.191	48.17	3.17	0.07
5270	0.094			0.192	48.96	3.10	0.07		
5310	0.093			0.191	48.69	3.13	0.07		
5510	0.094			0.191	49.21	3.08	0.09		
5550	0.093			0.191	48.69	3.13	0.14		
5670	0.094			0.191	49.21	3.08	0.07		
5755	0.094			0.191	49.21	3.08	0.03		
802.11ac (VHT80)	MIMO	5795	0.093	0.191	48.69	3.13	0.03		
		5210	0.066	0.163	40.49	3.93	0.08		
		5290	0.066	0.163	40.49	3.93	0.10		
		5530	0.066	0.164	40.24	3.95	0.07		
		5610	0.065	0.163	39.88	3.99	0.12		
		5775	0.066	0.163	40.49	3.93	0.06		



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1.1.2 Test Graph

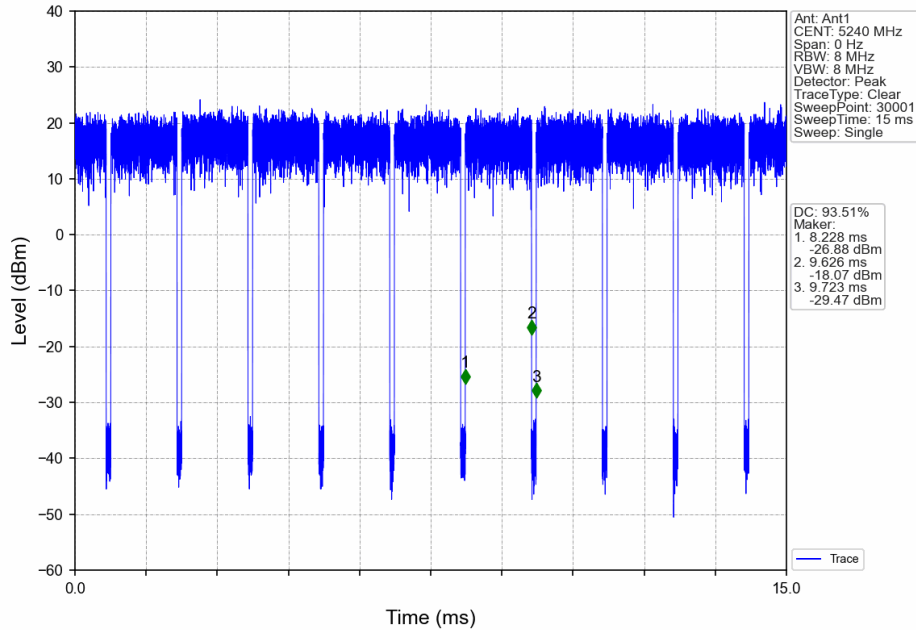


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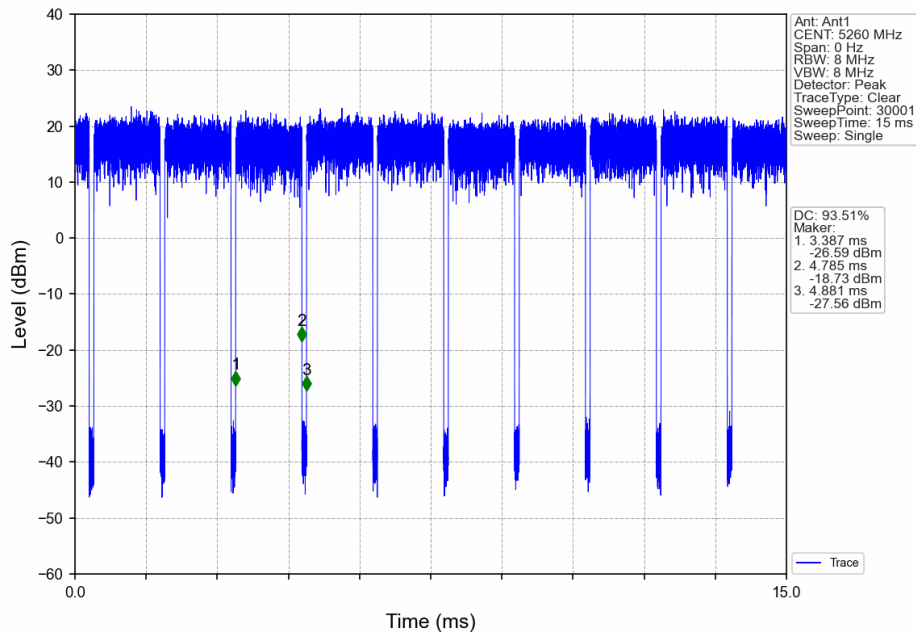
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV

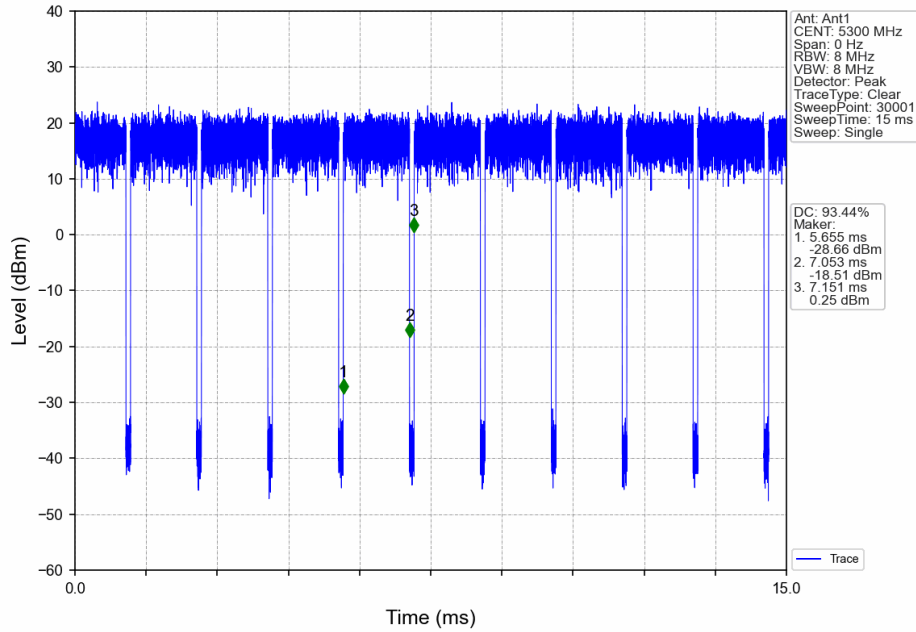


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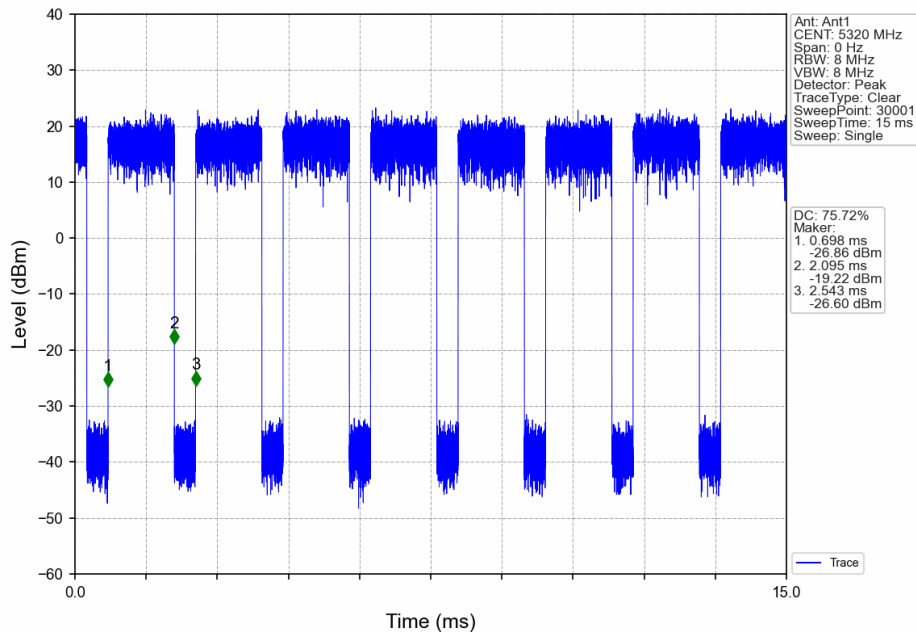
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802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant1_NTNV

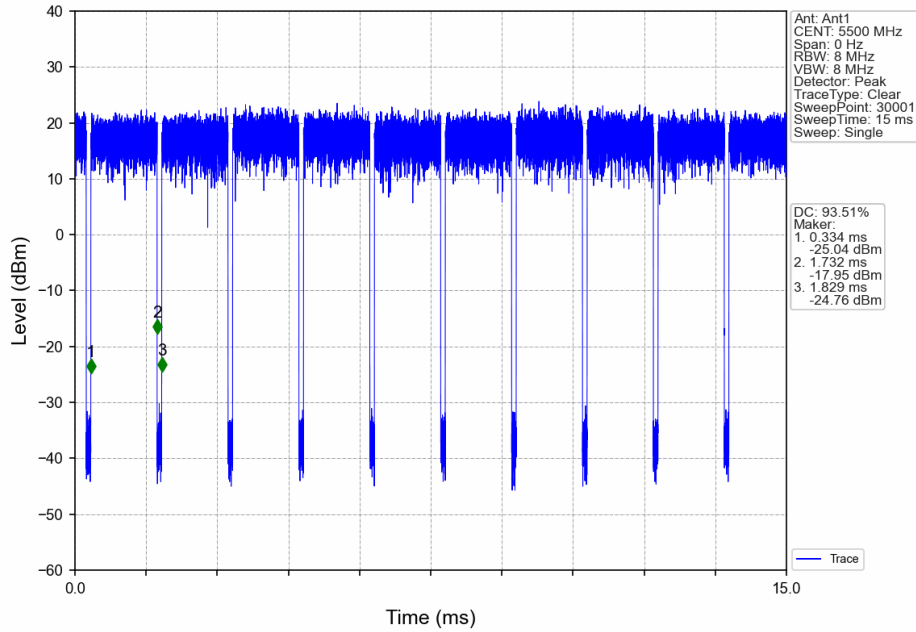


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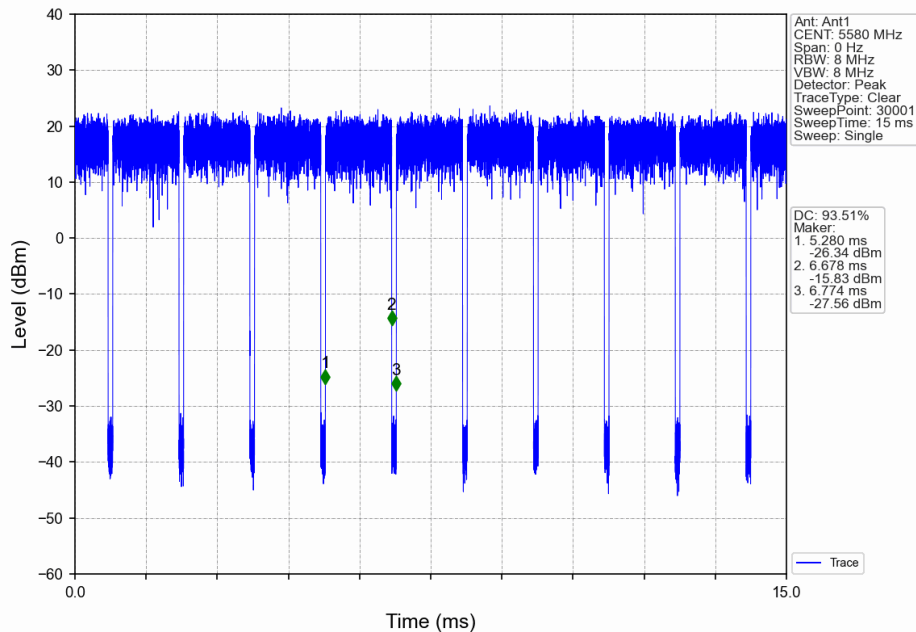
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802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV

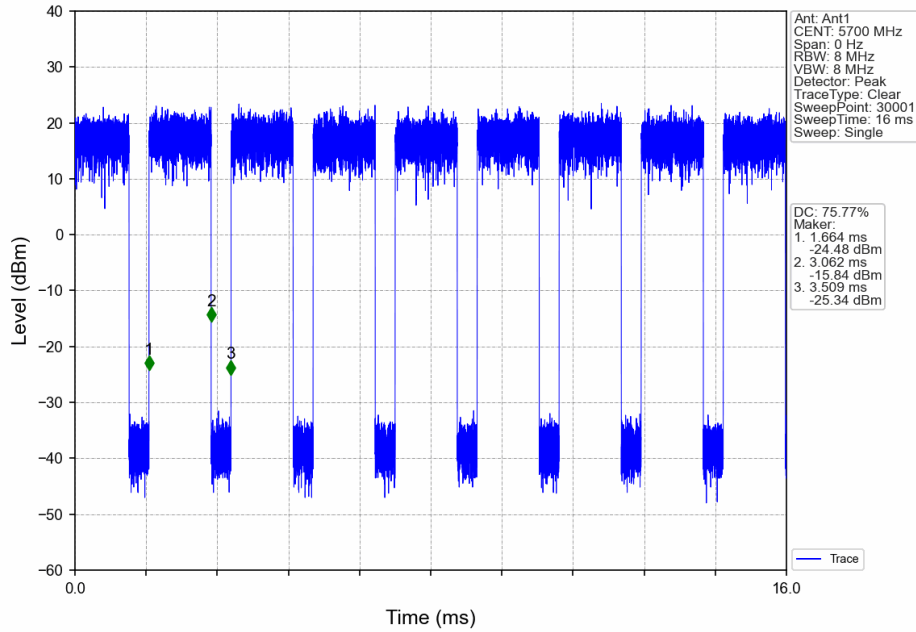


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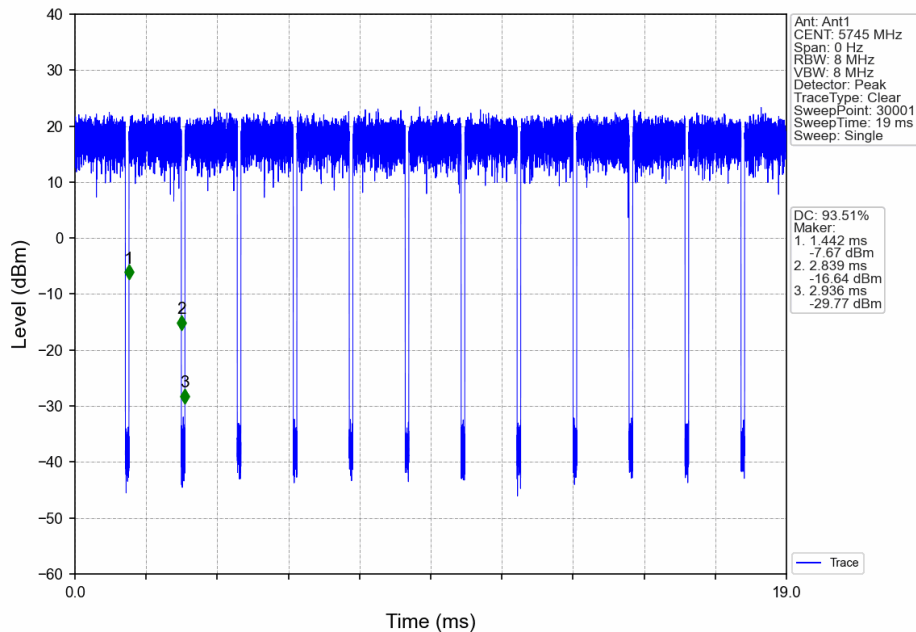
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802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV

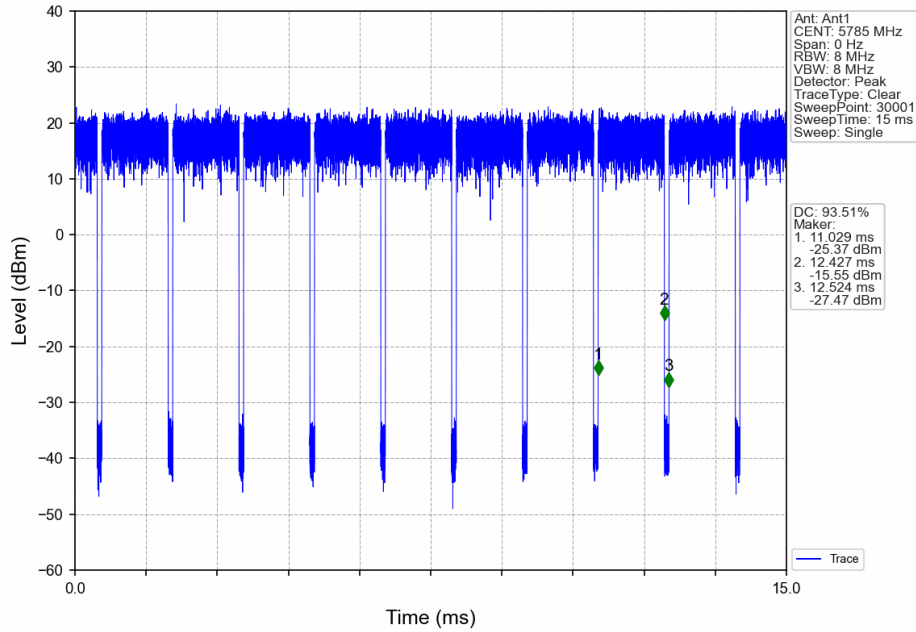


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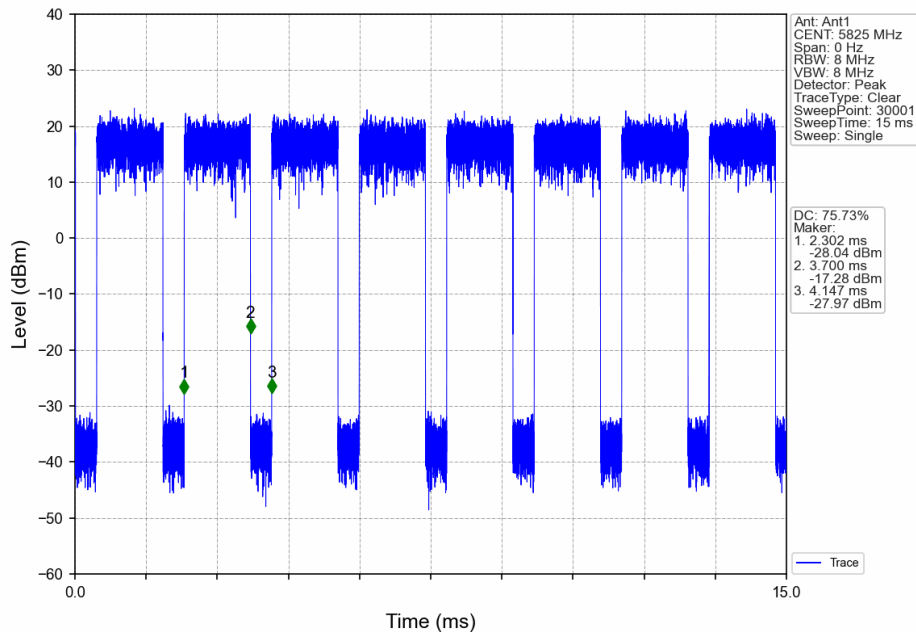
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV

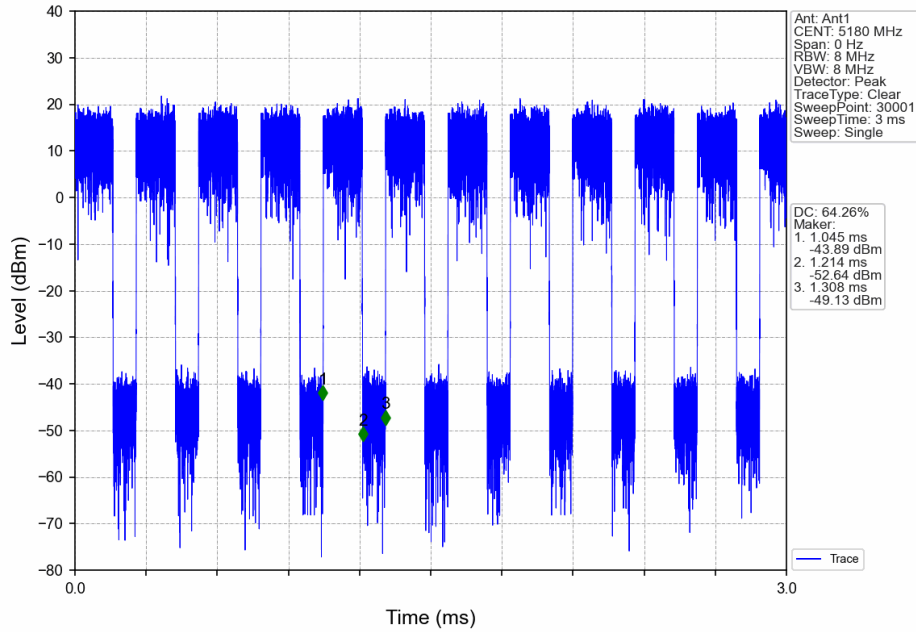


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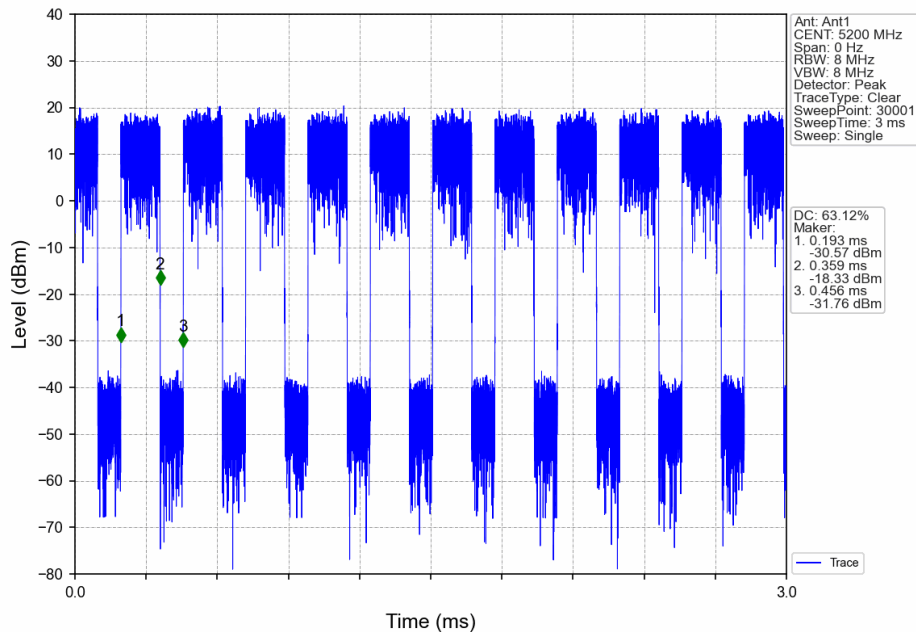
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

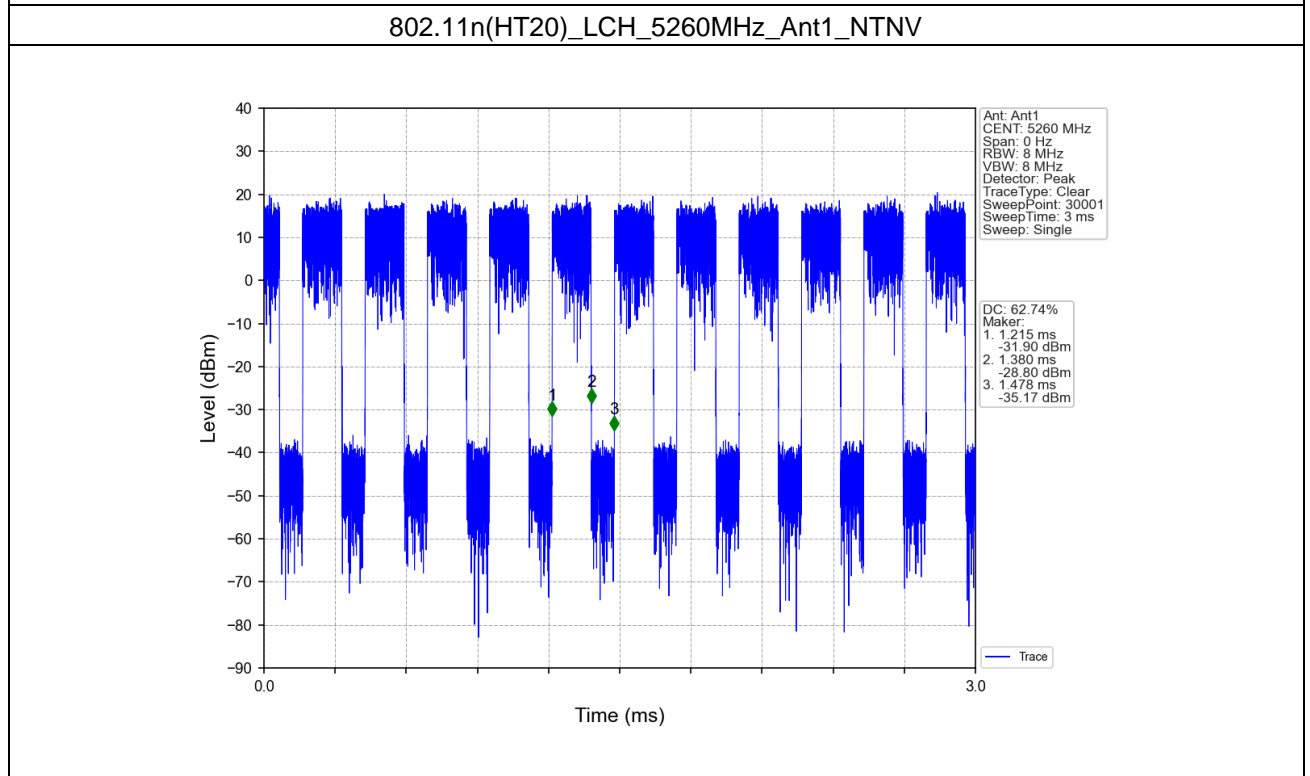
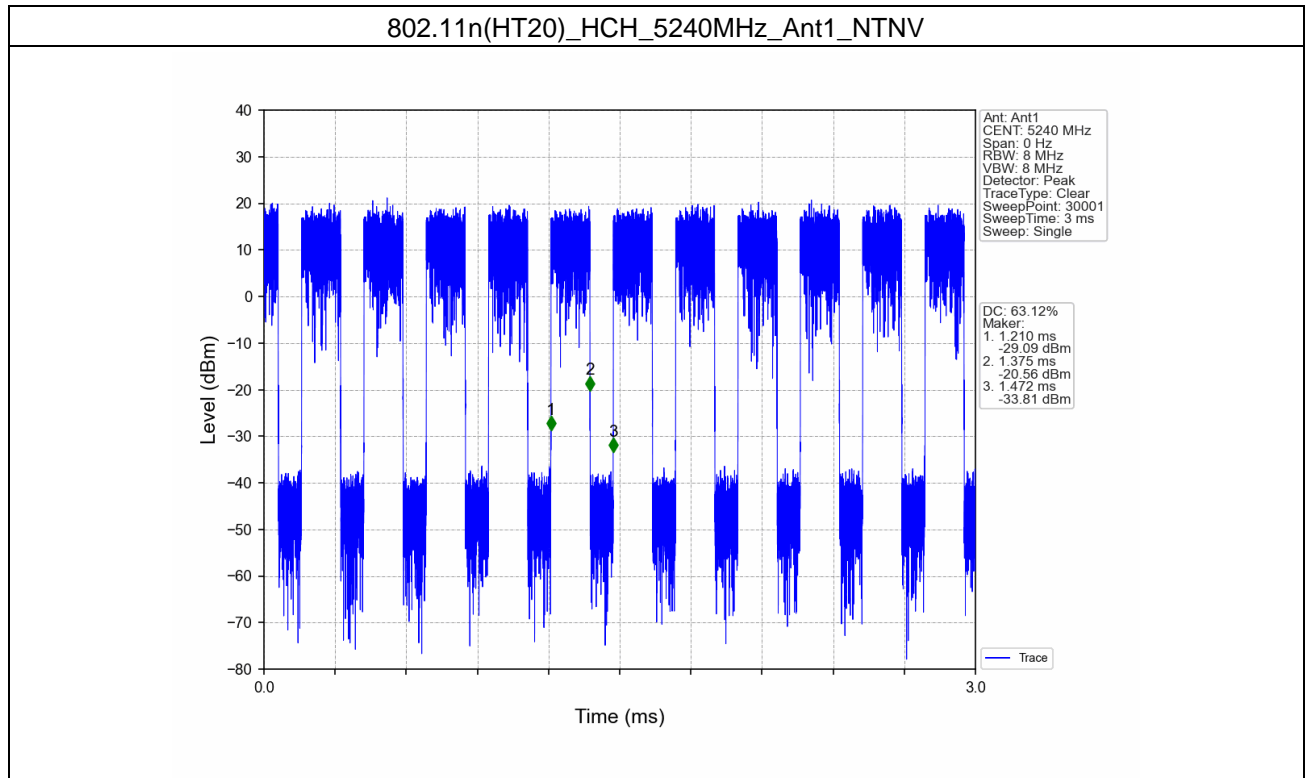


802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



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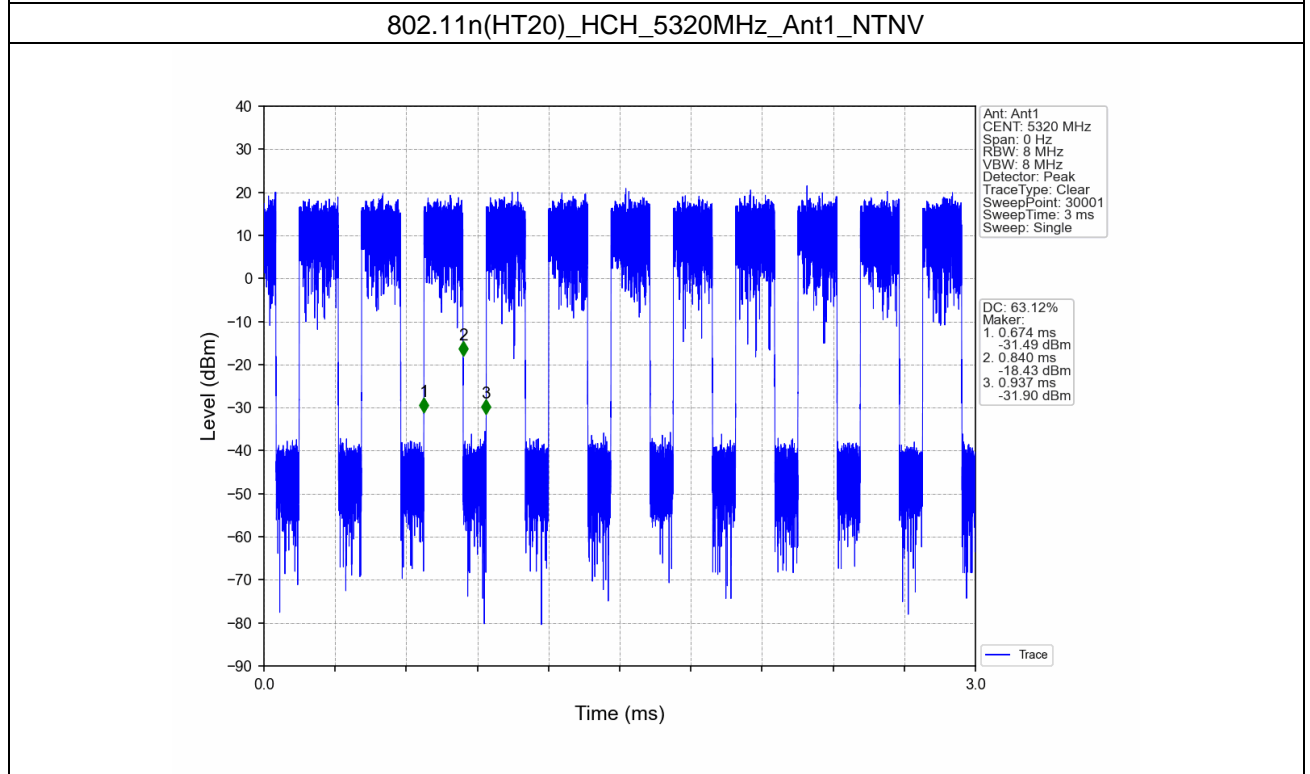
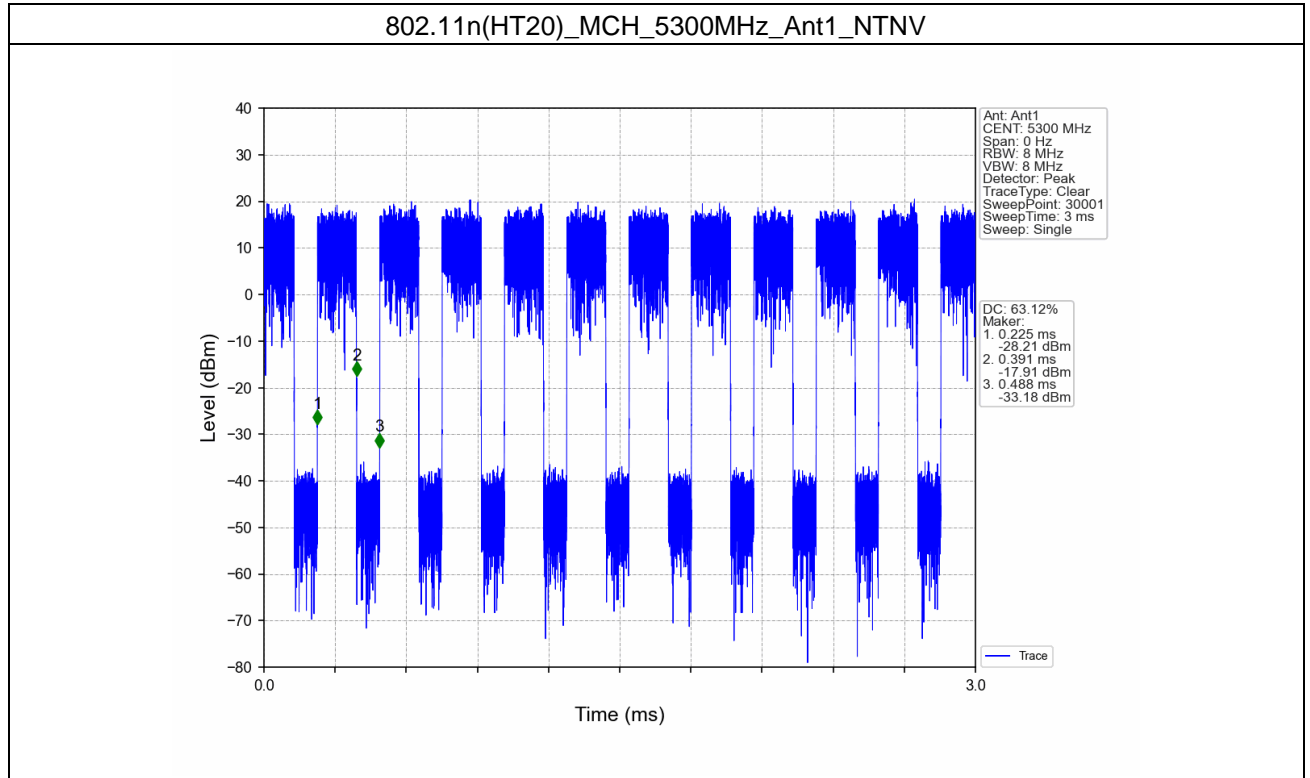
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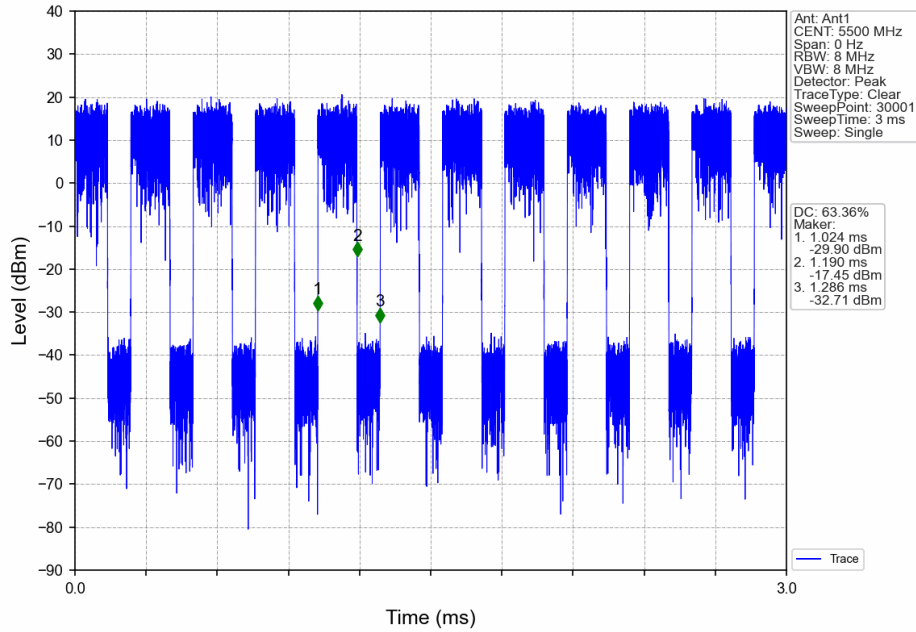
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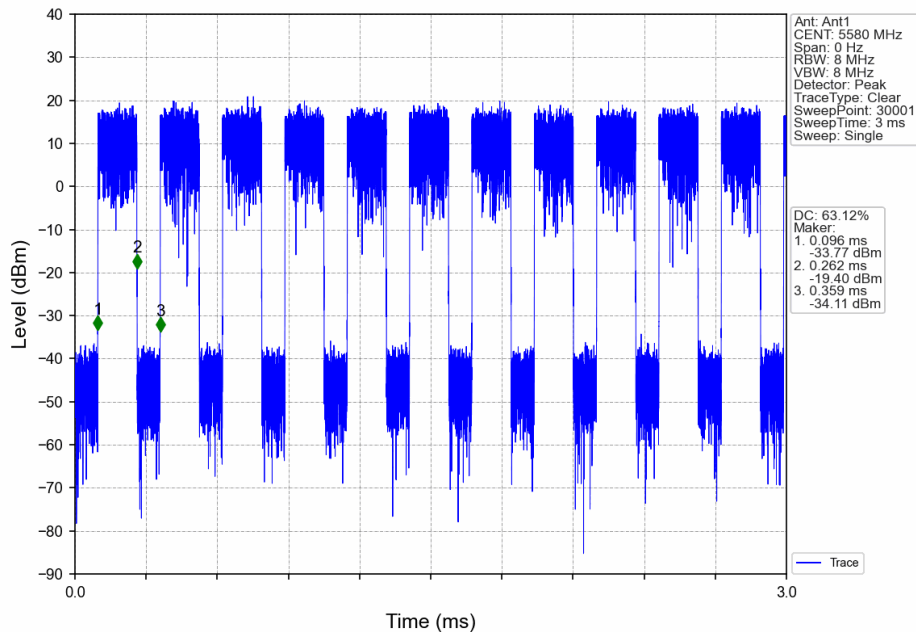


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802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



802.11n(HT20)_MCH_5580MHz_Ant1_NTNV

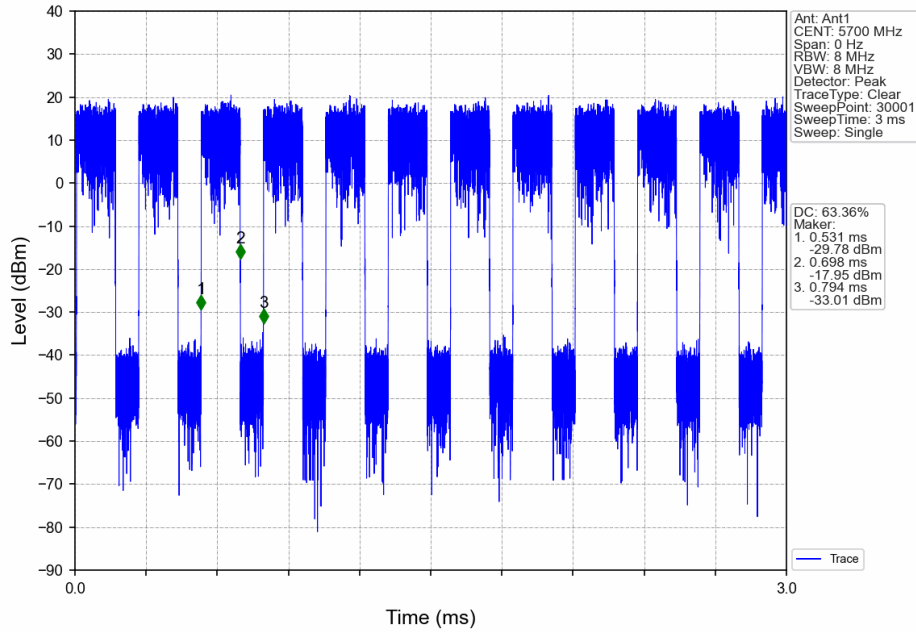


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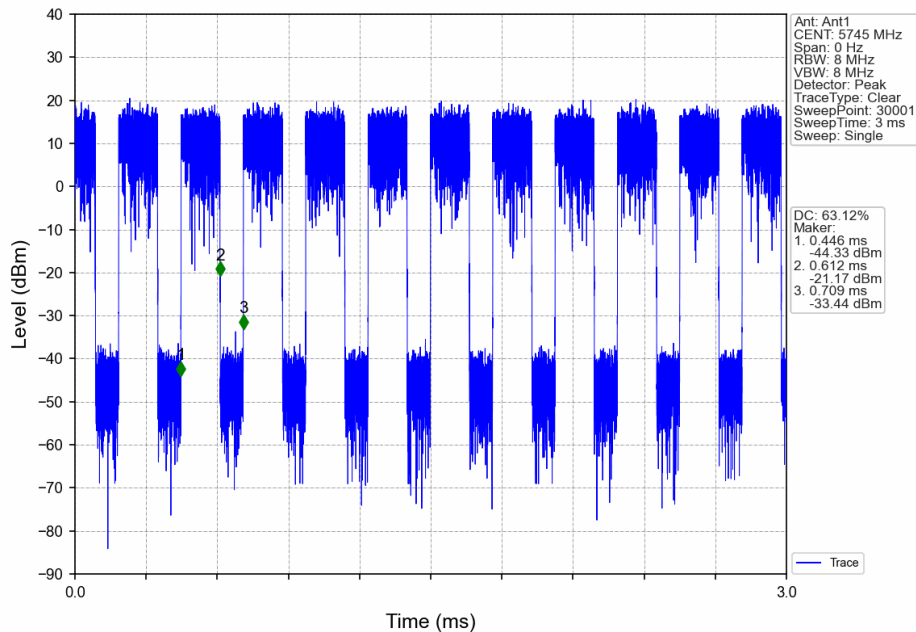
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802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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