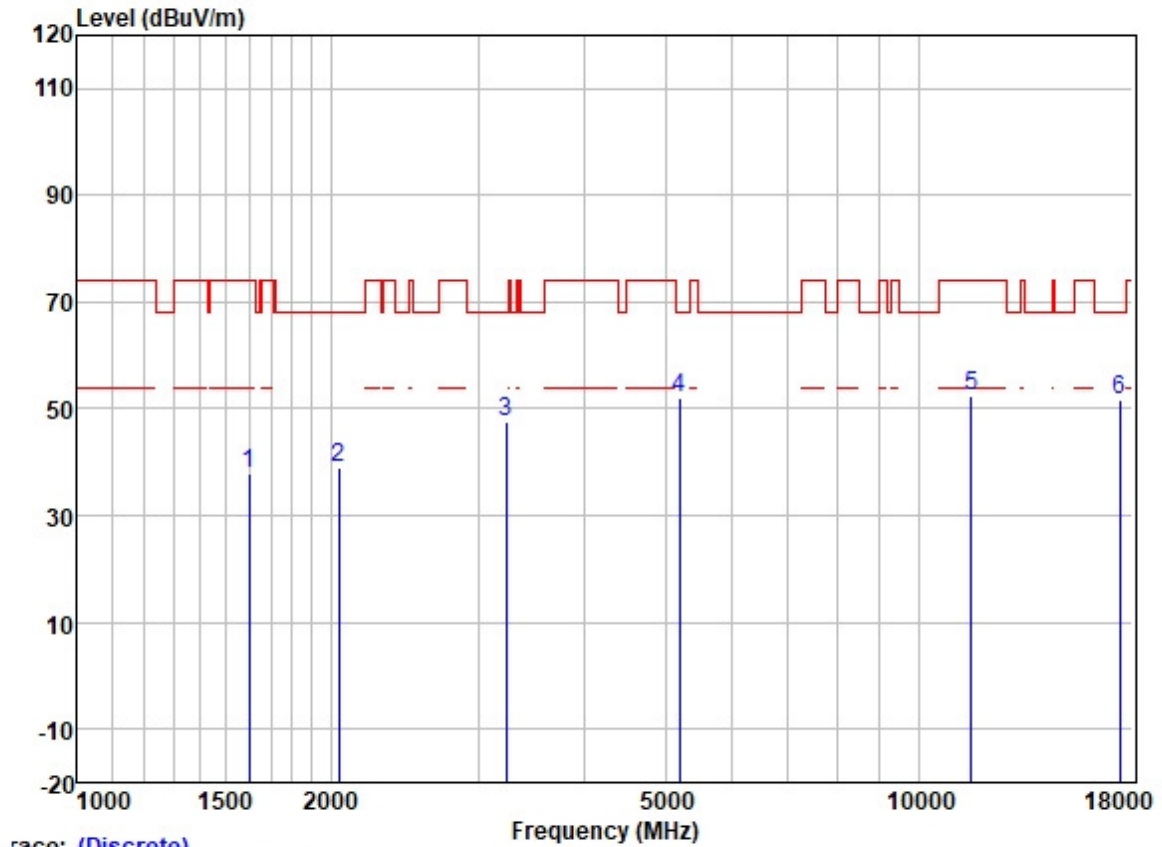
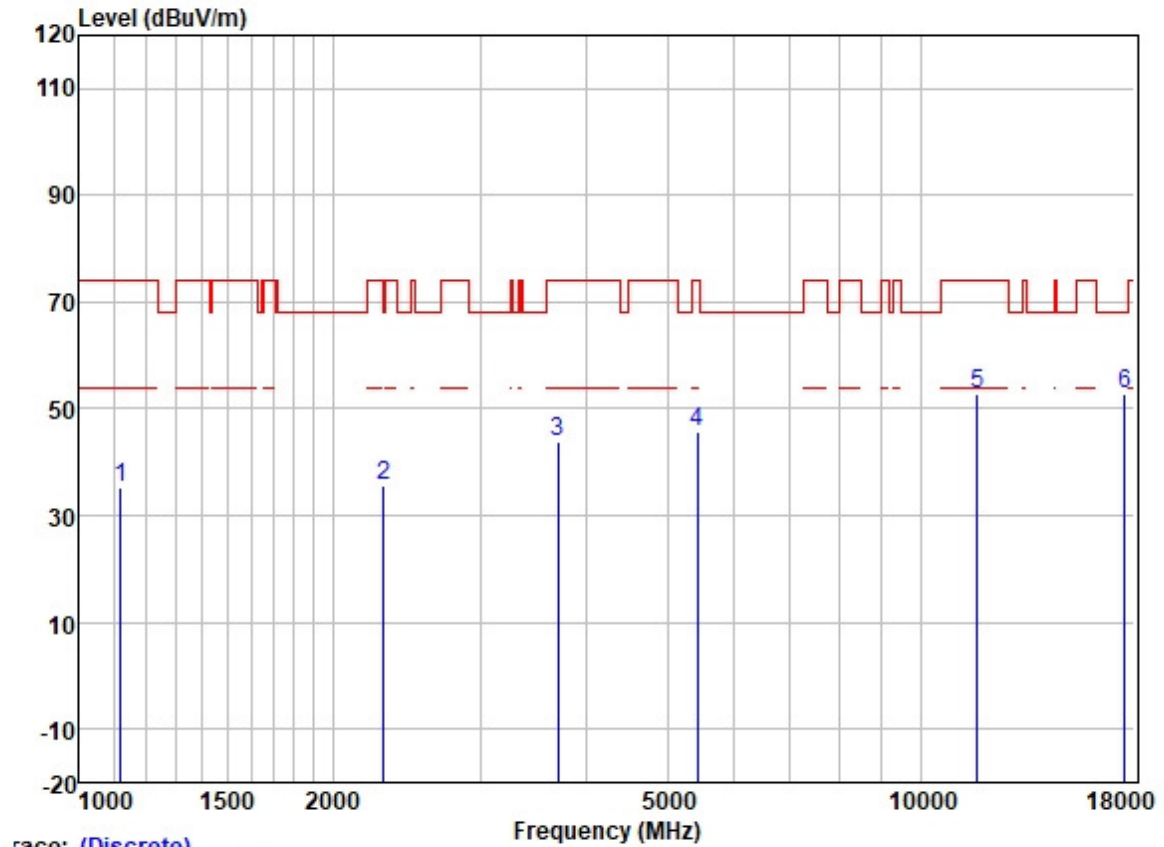


Test Mode: 30; Polarity: Vertical; Modulation: OFDM; Channel: middle



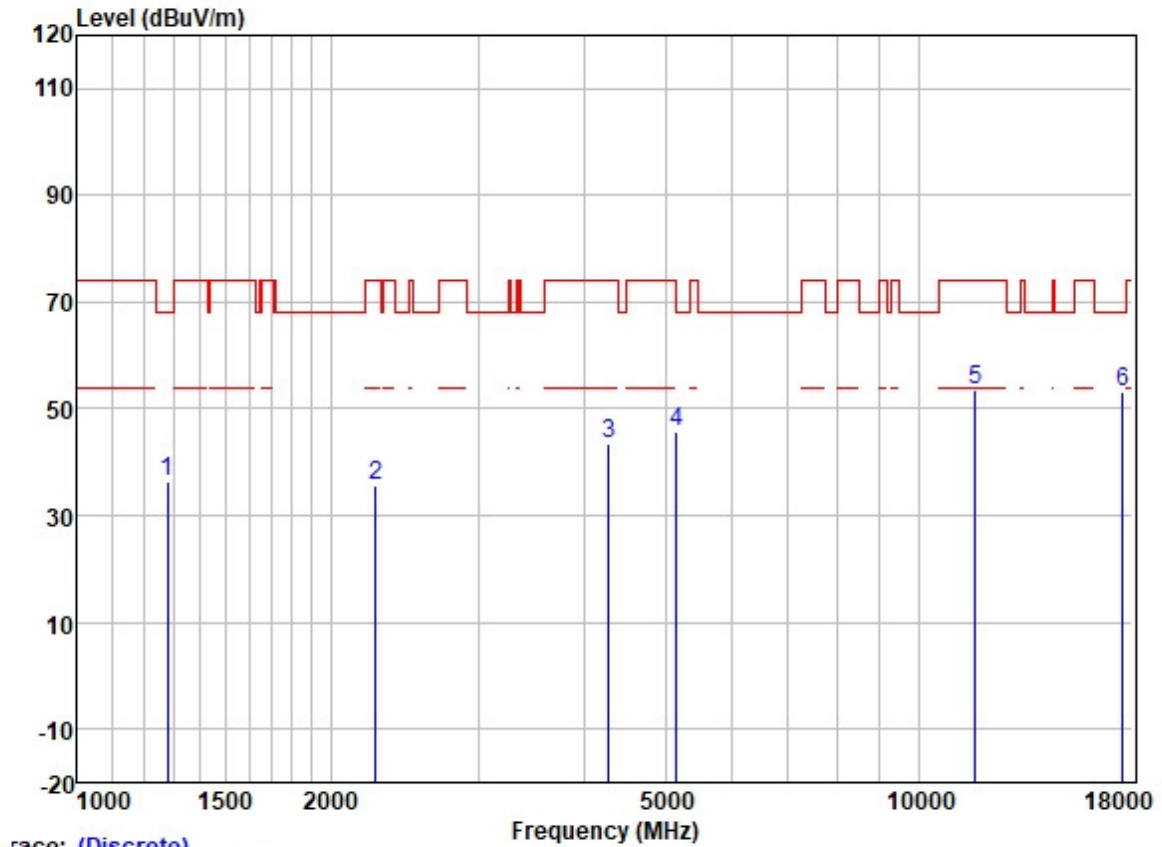
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1600.565	47.52	25.58	2.80	37.98	37.92	74.00	-36.08	VERTICAL	Peak
2	2043.444	47.46	26.17	3.12	37.69	39.06	68.20	-29.14	VERTICAL	Peak
3	3234.837	52.09	28.65	4.02	37.07	47.69	68.20	-20.51	VERTICAL	Peak
4	5198.413	51.67	31.73	5.60	36.87	52.13	68.20	-16.07	VERTICAL	Peak
5	11573.000	41.46	39.78	8.38	37.14	52.48	74.00	-21.52	VERTICAL	Peak
6	17359.500	33.37	43.40	10.39	35.32	51.84	68.20	-16.36	VERTICAL	Peak

Test Mode: 30; Polarity: Horizontal; Modulation: OFDM; Channel: High



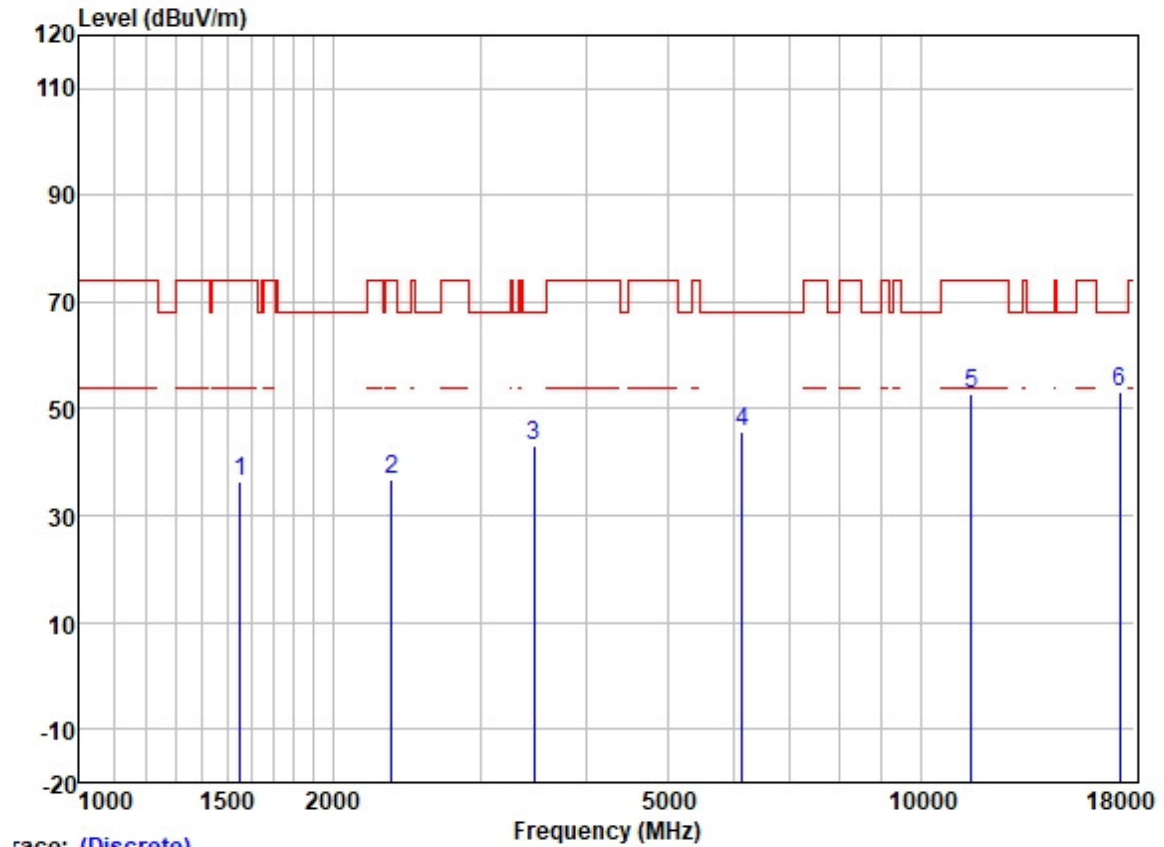
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1119.298	47.21	24.41	2.24	38.43	35.43	74.00	-38.57	HORIZONTAL	Peak
2	2301.241	42.75	27.11	3.30	37.62	35.54	68.20	-32.66	HORIZONTAL	Peak
3	3703.703	46.81	29.25	4.56	36.88	43.74	74.00	-30.26	HORIZONTAL	Peak
4	5427.166	44.69	31.79	6.13	36.88	45.73	74.00	-28.27	HORIZONTAL	Peak
5	11679.000	41.91	39.57	8.34	37.13	52.69	74.00	-21.31	HORIZONTAL	Peak
6	17518.500	33.33	43.97	10.76	35.31	52.75	68.20	-15.45	HORIZONTAL	Peak

Test Mode: 30; Polarity: Vertical; Modulation: OFDM; Channel: High



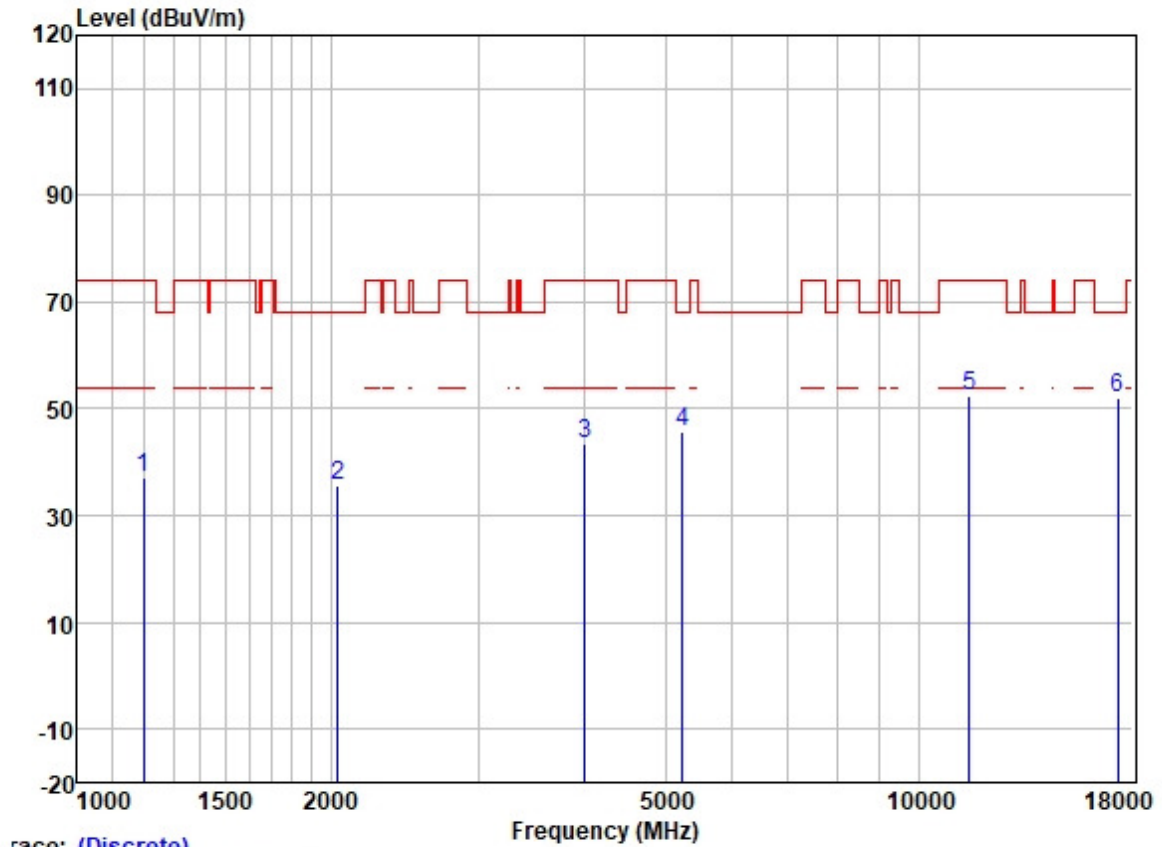
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1278.794	46.88	25.14	2.50	38.33	36.19	68.20	-32.01	VERTICAL	Peak
2	2262.402	43.22	26.95	3.27	37.64	35.80	74.00	-38.20	VERTICAL	Peak
3	4288.890	45.08	30.45	4.64	36.81	43.36	74.00	-30.64	VERTICAL	Peak
4	5152.656	45.19	31.72	5.62	36.86	45.67	68.20	-22.53	VERTICAL	Peak
5	11679.000	42.83	39.57	8.34	37.13	53.61	74.00	-20.39	VERTICAL	Peak
6	17518.500	33.68	43.97	10.76	35.31	53.10	68.20	-15.10	VERTICAL	Peak

Test Mode: 31; Polarity: Horizontal; Modulation: OFDM; Channel: Low



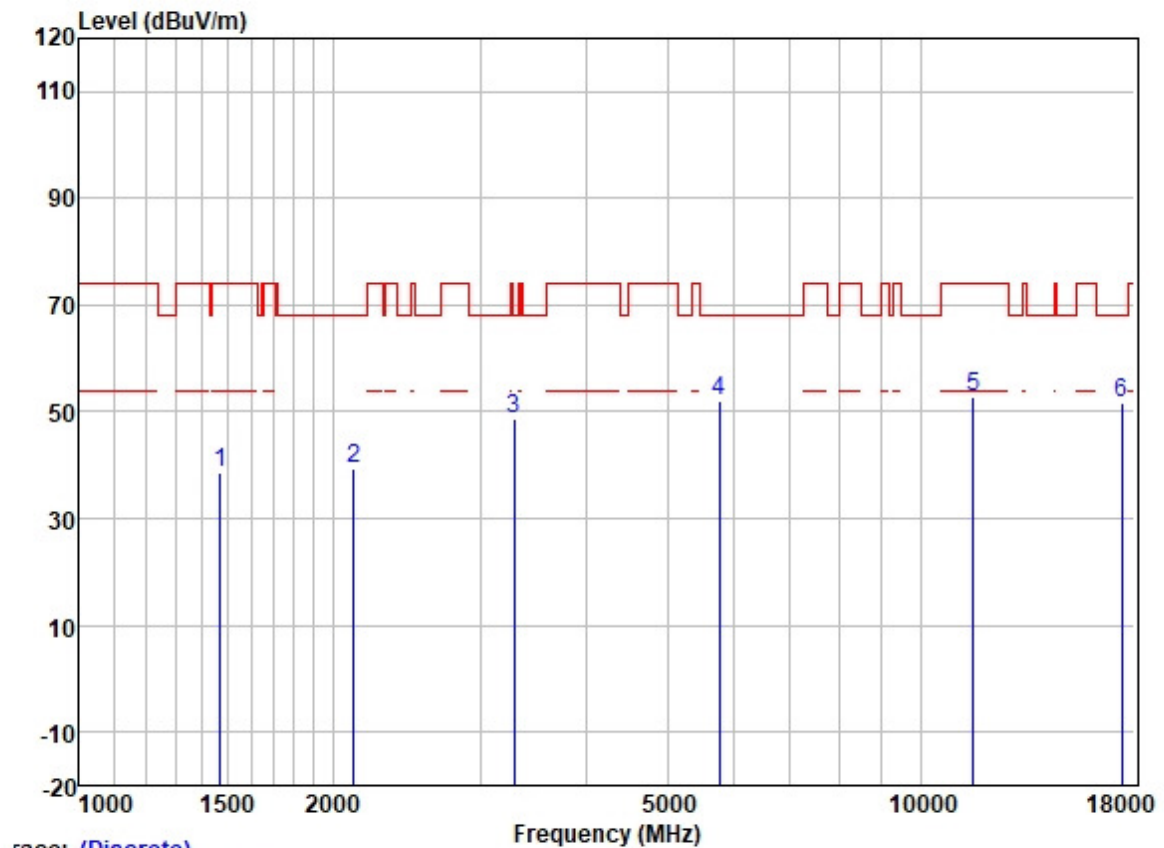
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1552.394	45.88	25.54	2.80	38.03	36.19	74.00	-37.81	HORIZONTAL	Peak
2	2354.037	43.79	27.25	3.40	37.61	36.83	74.00	-37.17	HORIZONTAL	Peak
3	3468.368	46.92	28.88	4.22	36.95	43.07	68.20	-25.13	HORIZONTAL	Peak
4	6143.325	43.89	32.77	6.12	36.93	45.85	68.20	-22.35	HORIZONTAL	Peak
5	11491.000	41.71	39.90	8.41	37.15	52.87	74.00	-21.13	HORIZONTAL	Peak
6	17236.500	35.58	43.01	10.08	35.33	53.34	68.20	-14.86	HORIZONTAL	Peak

Test Mode: 31; Polarity: Vertical; Modulation: OFDM; Channel: Low



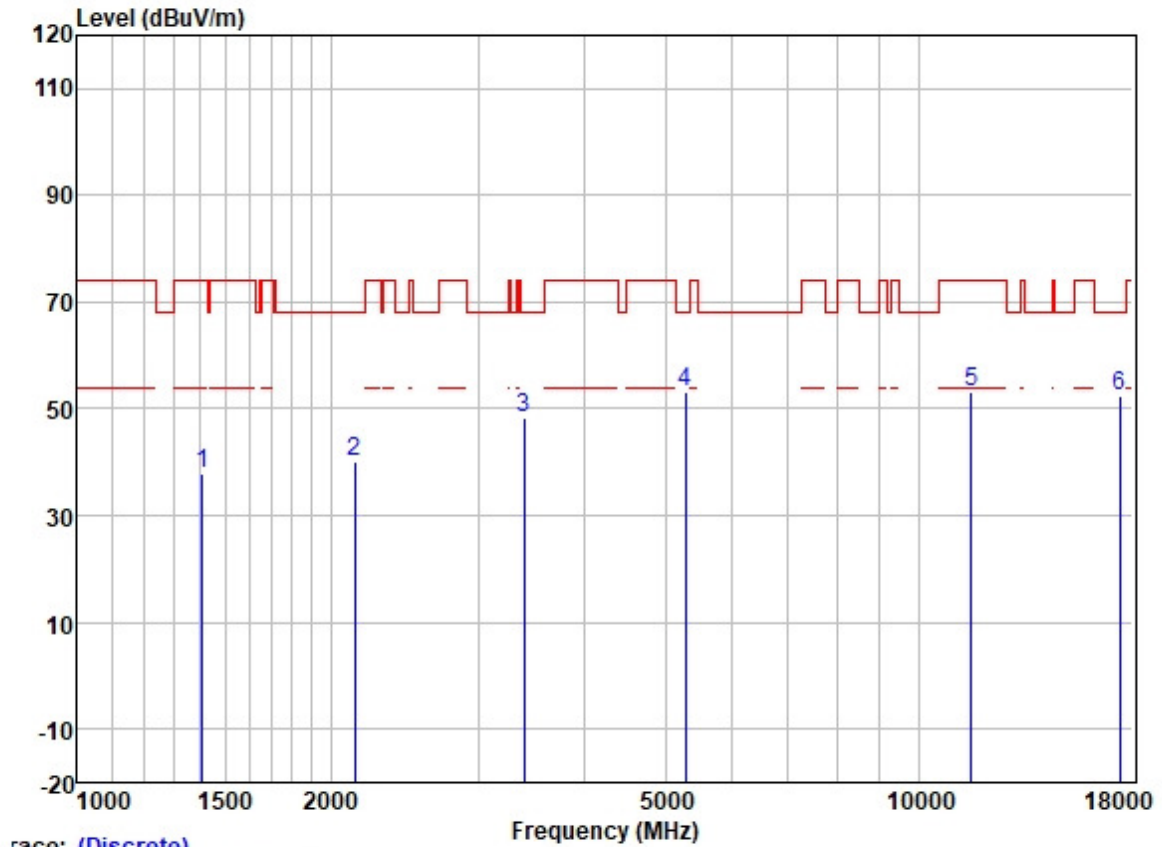
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1199.719	48.47	24.68	2.34	38.39	37.10	74.00	-36.90	VERTICAL	Peak
2	2039.000	43.93	26.16	3.11	37.69	35.51	68.20	-32.69	VERTICAL	Peak
3	4014.791	45.78	29.82	4.60	36.80	43.40	74.00	-30.60	VERTICAL	Peak
4	5239.172	45.19	31.75	5.74	36.87	45.81	68.20	-22.39	VERTICAL	Peak
5	11491.000	41.42	39.90	8.41	37.15	52.58	74.00	-21.42	VERTICAL	Peak
6	17236.500	34.16	43.01	10.08	35.33	51.92	68.20	-16.28	VERTICAL	Peak

Test Mode: 31; Polarity: Horizontal; Modulation: OFDM; Channel: middle



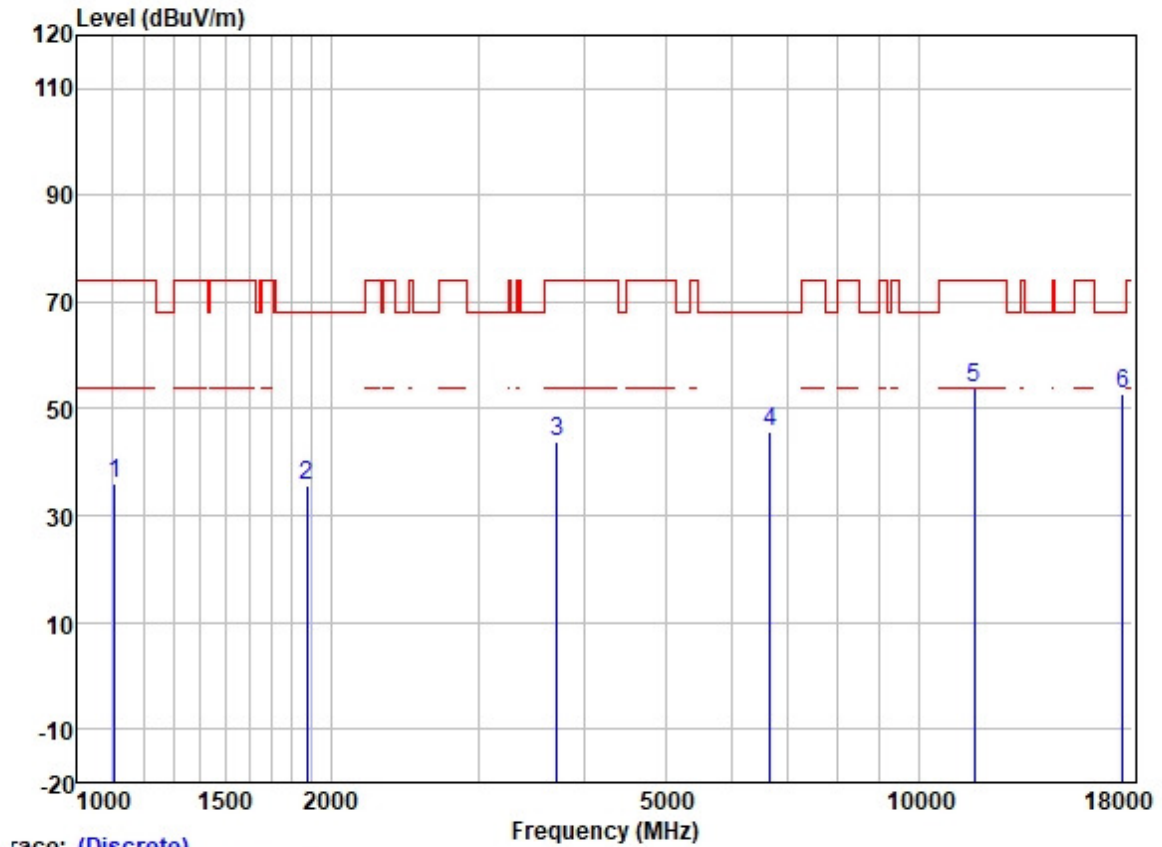
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1472.587	48.52	25.48	2.76	38.13	38.63	74.00	-35.37	HORIZONTAL	Peak
2	2118.600	47.46	26.34	3.17	37.67	39.30	68.20	-28.90	HORIZONTAL	Peak
3	3284.428	52.88	28.73	4.04	37.04	48.61	68.20	-19.59	HORIZONTAL	Peak
4	5767.430	50.50	32.13	6.15	36.89	51.89	68.20	-16.31	HORIZONTAL	Peak
5	11573.000	41.64	39.78	8.38	37.14	52.66	74.00	-21.34	HORIZONTAL	Peak
6	17359.500	33.20	43.40	10.39	35.32	51.67	68.20	-16.53	HORIZONTAL	Peak

Test Mode: 31; Polarity: Vertical; Modulation: OFDM; Channel: middle



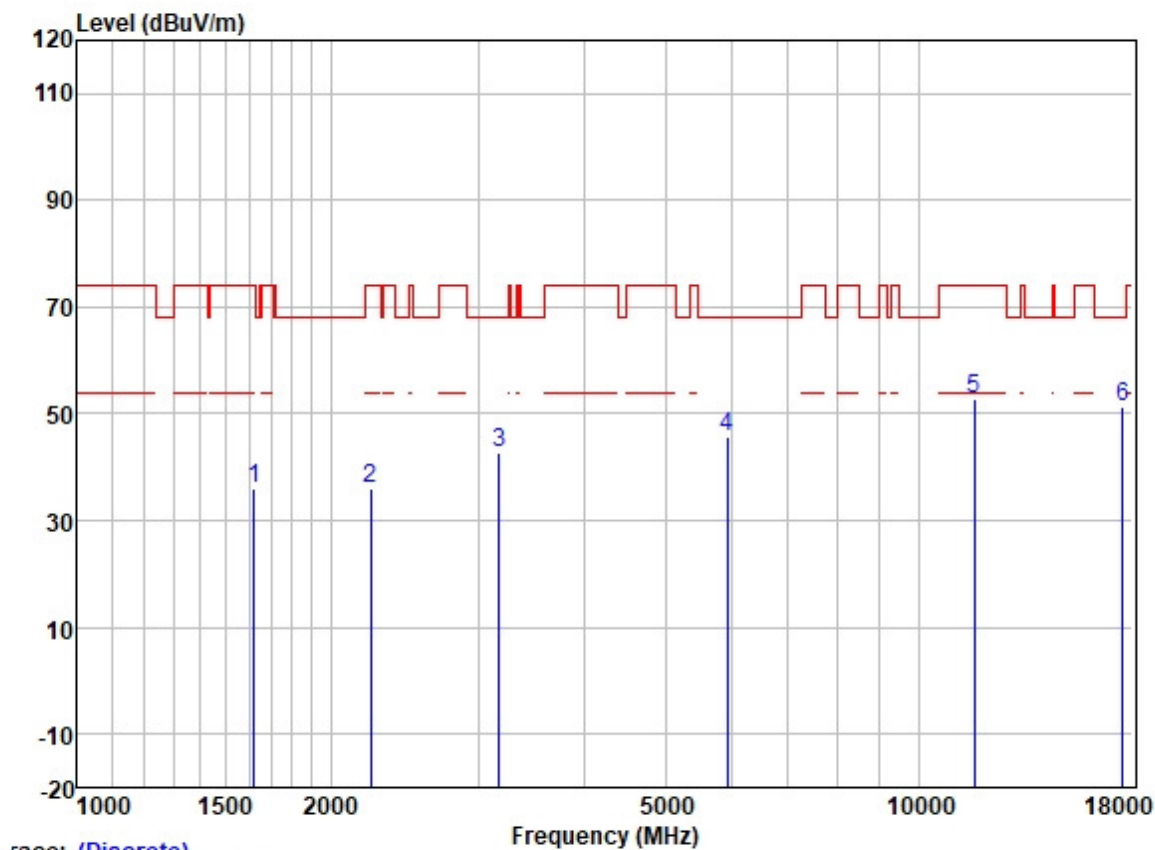
		ReadAntenna		Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1408.389	48.15	25.40	2.61	38.22	37.94	74.00	-36.06	VERTICAL	Peak
2	2136.344	48.25	26.39	3.18	37.67	40.15	68.20	-28.05	VERTICAL	Peak
3	3401.572	52.37	28.85	4.11	36.98	48.35	68.20	-19.85	VERTICAL	Peak
4	5284.242	52.25	31.76	6.00	36.87	53.14	68.20	-15.06	VERTICAL	Peak
5	11573.000	42.11	39.78	8.38	37.14	53.13	74.00	-20.87	VERTICAL	Peak
6	17359.500	33.99	43.40	10.39	35.32	52.46	68.20	-15.74	VERTICAL	Peak

Test Mode: 31; Polarity: Horizontal; Modulation: OFDM; 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	1106.038	47.82	24.38	2.28	38.45	36.03	74.00	-37.97	HORIZONTAL	Peak
2	1873.693	44.33	26.02	2.92	37.77	35.50	68.20	-32.70	HORIZONTAL	Peak
3	3718.593	46.78	29.28	4.56	36.87	43.75	74.00	-30.25	HORIZONTAL	Peak
4	6660.491	42.49	34.29	5.83	37.06	45.55	68.20	-22.65	HORIZONTAL	Peak
5	11659.000	42.98	39.57	8.34	37.13	53.76	74.00	-20.24	HORIZONTAL	Peak
6	17488.500	33.39	43.90	10.77	35.32	52.74	68.20	-15.46	HORIZONTAL	Peak

Test Mode: 31; Polarity: Vertical; Modulation:OFDM; 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	1623.622	45.53	25.61	2.80	37.95	35.99	74.00	-38.01	VERTICAL	Peak
2	2233.845	43.68	26.80	3.23	37.64	36.07	74.00	-37.93	VERTICAL	Peak
3	3172.987	47.20	28.55	3.98	37.10	42.63	68.20	-25.57	VERTICAL	Peak
4	5928.742	44.20	32.34	6.00	36.90	45.64	68.20	-22.56	VERTICAL	Peak
5	11659.000	42.00	39.57	8.34	37.13	52.78	74.00	-21.22	VERTICAL	Peak
6	17488.500	31.86	43.90	10.77	35.32	51.21	68.20	-16.99	VERTICAL	Peak

7.9 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & E 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: 51.9 % RH

Atmospheric Pressure: 1010 mbar

7.9.1 Test Mode Description

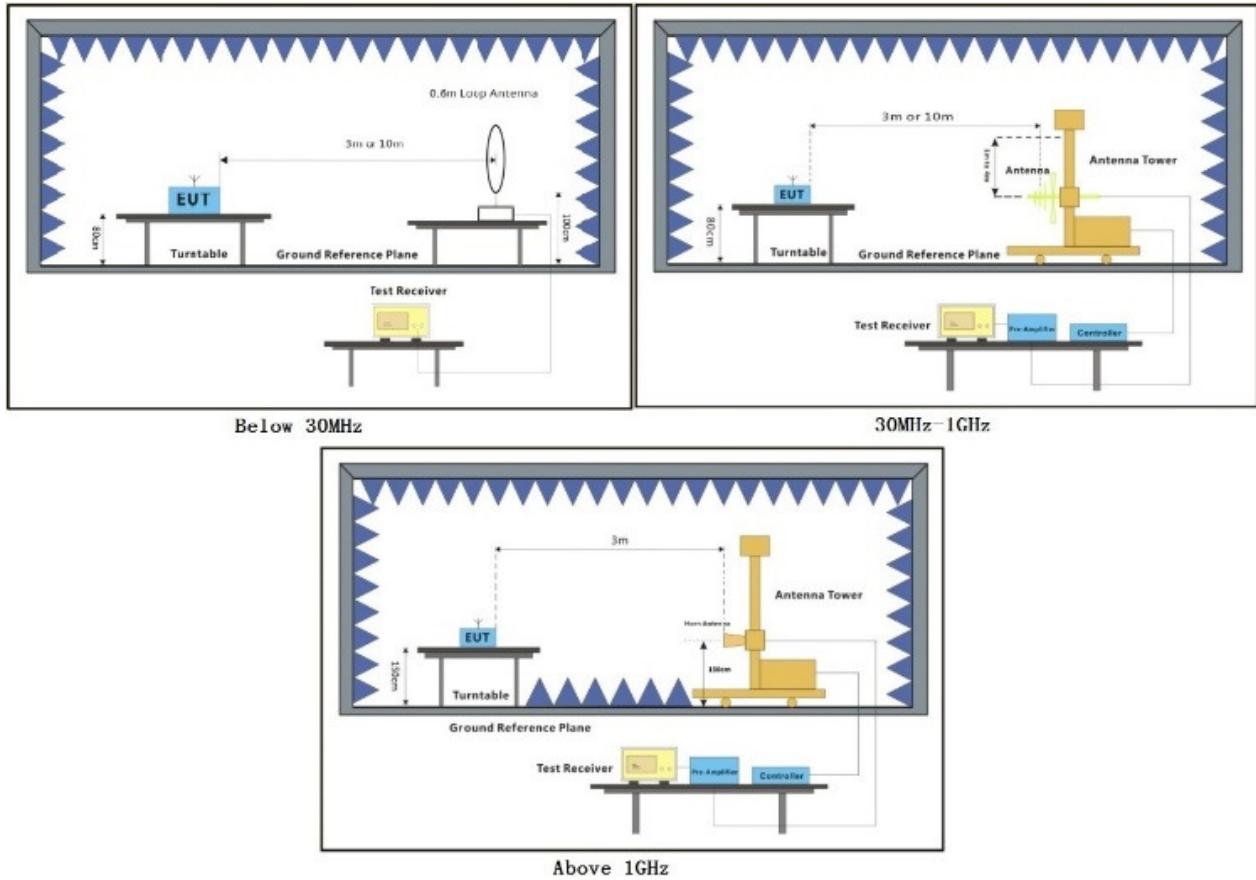
Pre-scan / Final test	Mode Code	Description
Final test	25	TX mode(1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	26	TX mode(1.4MHz,CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	27	TX mode(3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	28	TX mode(3MHz,CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	29	TX mode(10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	30	TX mode(20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	31	TX mode(40MHz)_Keep the EUT in continuously transmitting mode with modulation
Pre-scan	32	Charge + TX mode(1.4MHz)_Keep the EUT in charging and continuously transmitting mode with modulation
Pre-scan	33	Charge + TX mode(1.4MHz,CA)_Keep the EUT in charging and continuously transmitting mode with modulation
Pre-scan	34	Charge + TX mode(3MHz)_Keep the EUT in charging and continuously transmitting mode with modulation
Pre-scan	35	Charge + TX mode(3MHz,CA)_Keep the EUT in charging and continuously transmitting mode with modulation
Pre-scan	36	Charge + TX mode(10MHz)_Keep the EUT in charging and continuously transmitting mode with modulation
Pre-scan	37	Charge + TX mode(20MHz)_Keep the EUT in charging and continuously transmitting mode with modulation
Pre-scan	38	Charge + TX mode(40MHz)_Keep the EUT in charging and continuously transmitting mode with modulation



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7.9.2 Test Setup Diagram



7.9.3 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.

Remark1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark2:

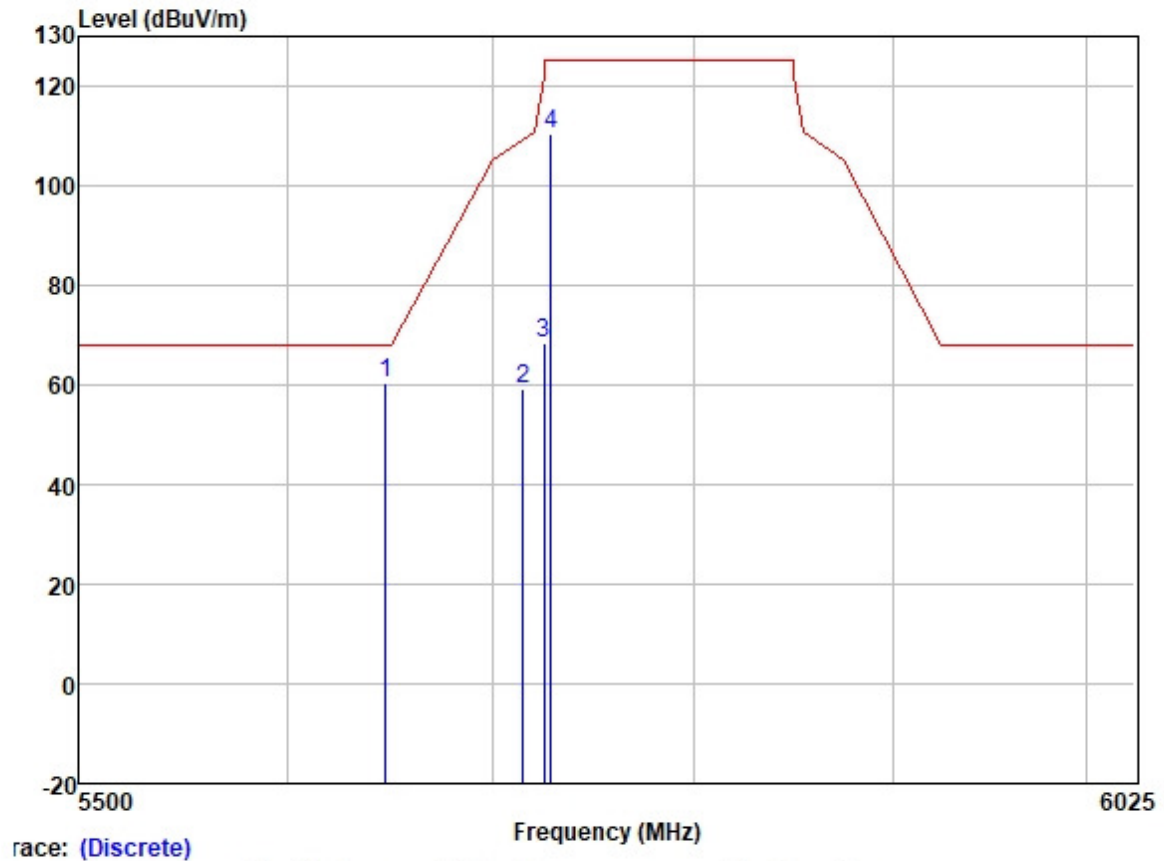
1. The disturbance below 30MHz and above 18GHz was very low, and the below harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
2. Pretest the EUT at antenna 1 and antenna 2 and MIMO mode find the worst case is MIMO mode.



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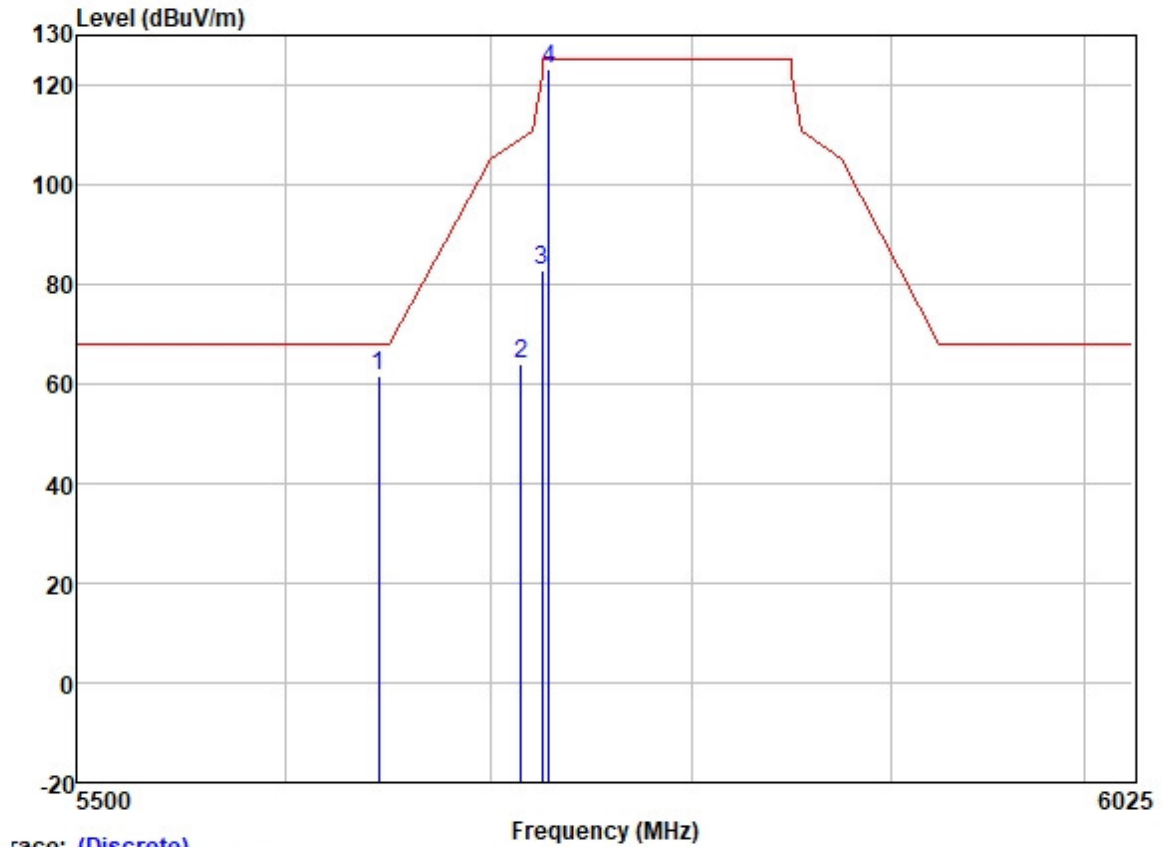
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Test Mode: 25; Polarity: Horizontal; Modulation: OFDM; Channel: Low



		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	5647.473	58.85	31.95	6.35	36.89	60.26	68.20	-7.94	HORIZONTAL	Peak
2	5715.000	57.66	32.04	6.33	36.89	59.14	109.40	-50.26	HORIZONTAL	Peak
3	5725.000	66.82	32.07	6.25	36.89	68.25	122.20	-53.95	HORIZONTAL	Peak
4	5728.500	109.02	32.07	6.25	36.89	110.45	125.20	-14.75	HORIZONTAL	Peak

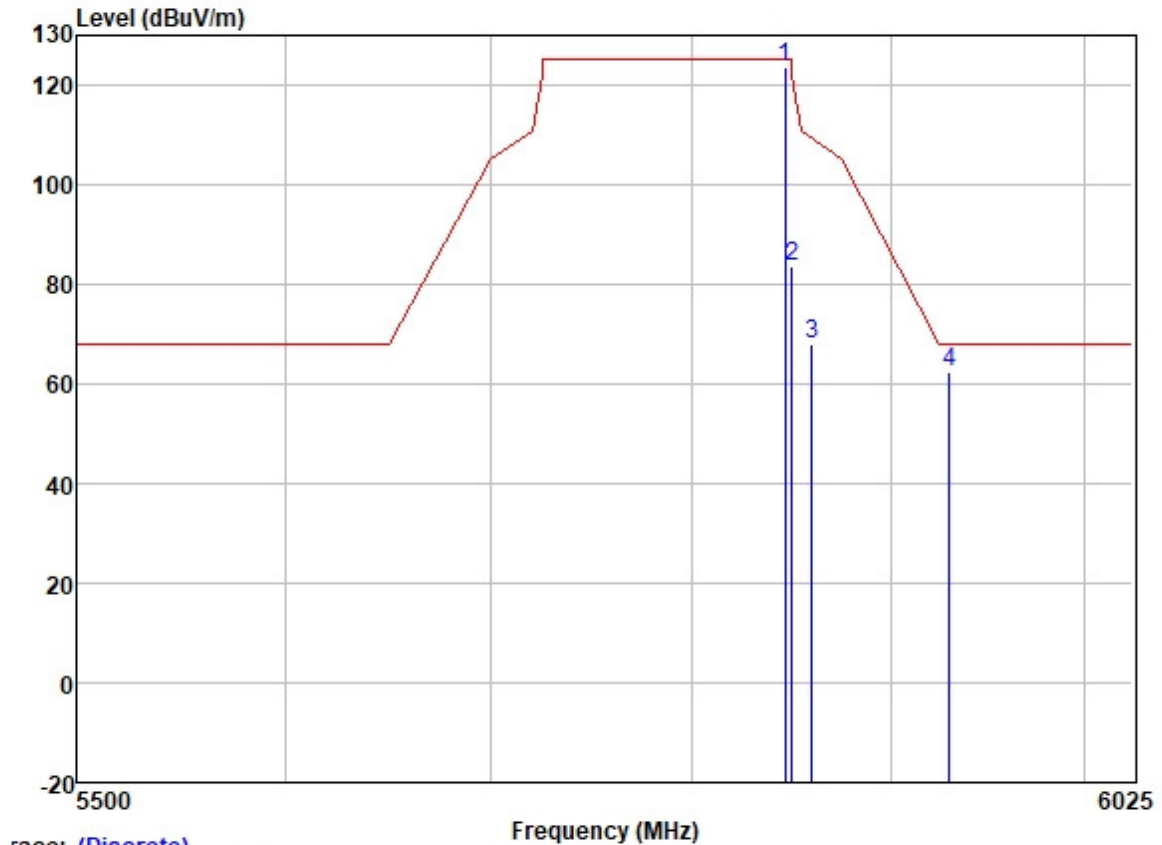
Test Mode: 25; Polarity: Vertical; Modulation:OFDM; Channel:Low



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	5644.842	60.16	31.95	6.35	36.89	61.57	68.20	-6.63	VERTICAL Peak
2	5715.000	62.70	32.04	6.33	36.89	64.18	109.40	-45.22	VERTICAL Peak
3	5725.000	81.19	32.07	6.25	36.89	82.62	122.20	-39.58	VERTICAL Peak
4	5728.500	121.74	32.07	6.25	36.89	123.17	125.20	-2.03	VERTICAL Peak

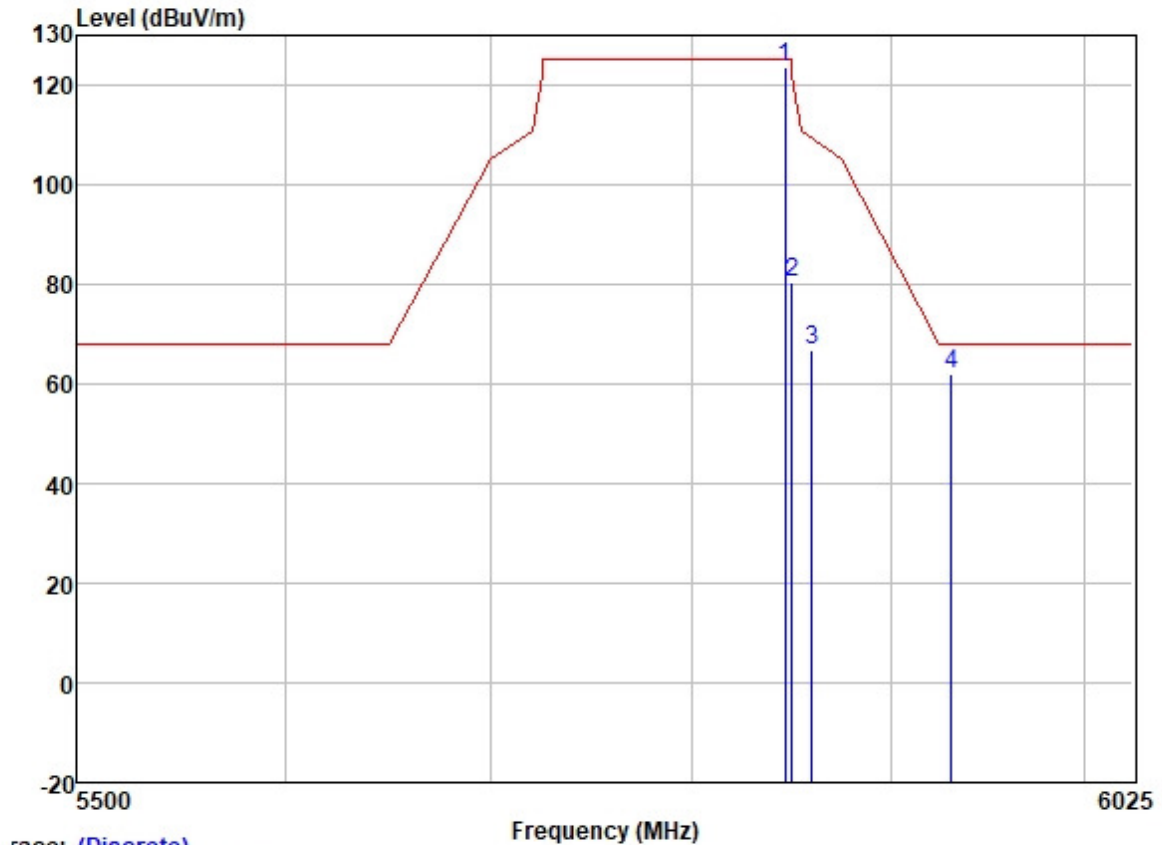
Test Mode: 25; Polarity: Horizontal; Modulation: OFDM; Channel: High



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	5846.500	122.10	32.25	6.00	36.90	123.45	125.20	-1.75	HORIZONTAL Peak
2	5850.000	82.14	32.25	6.00	36.90	83.49	122.20	-38.71	HORIZONTAL Peak
3	5860.000	66.61	32.27	5.96	36.90	67.94	109.40	-41.46	HORIZONTAL Peak
4	5929.954	60.95	32.34	6.00	36.90	62.39	68.20	-5.81	HORIZONTAL Peak

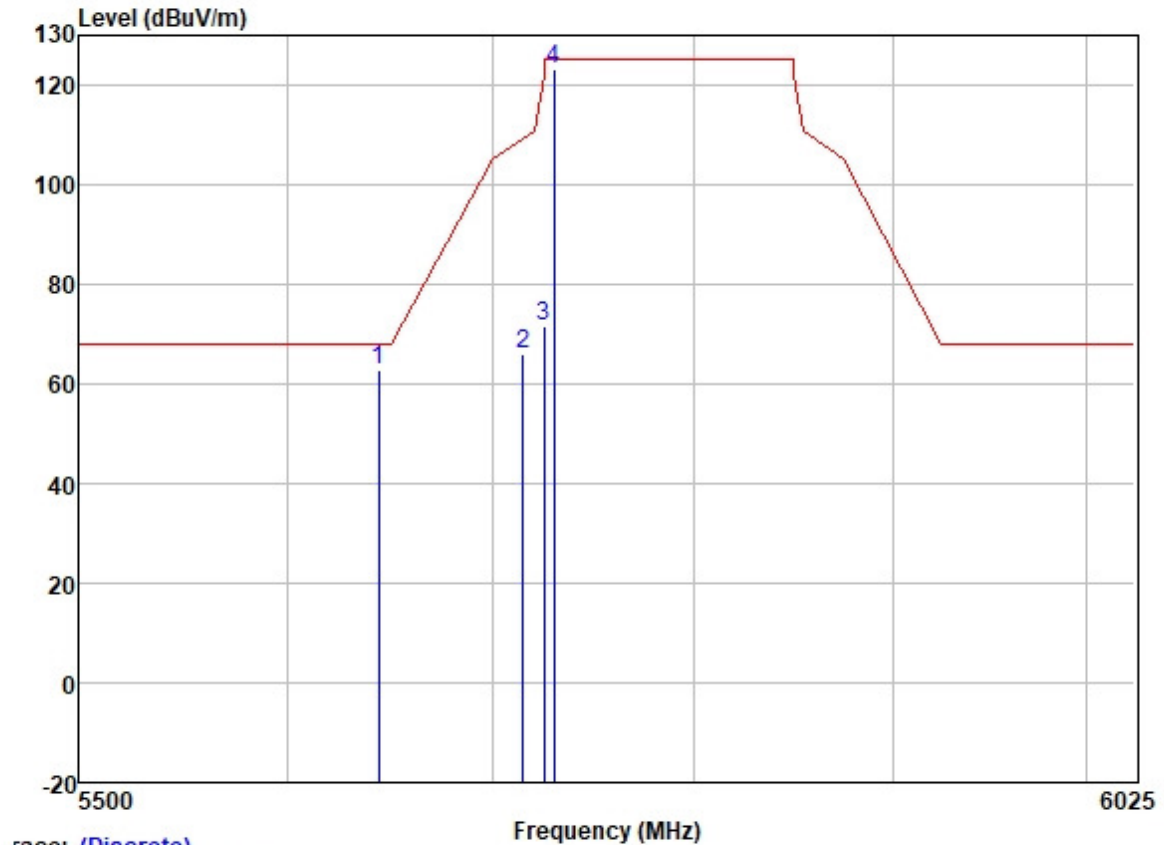
Test Mode: 25; Polarity: Vertical; Modulation: OFDM; Channel: High



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	5846.500	122.16	32.25	6.00	36.90	123.51	125.20	-1.69	VERTICAL Peak
2	5850.000	79.01	32.25	6.00	36.90	80.36	122.20	-41.84	VERTICAL Peak
3	5860.000	65.64	32.27	5.96	36.90	66.97	109.40	-42.43	VERTICAL Peak
4	5931.120	60.63	32.34	6.00	36.90	62.07	68.20	-6.13	VERTICAL Peak

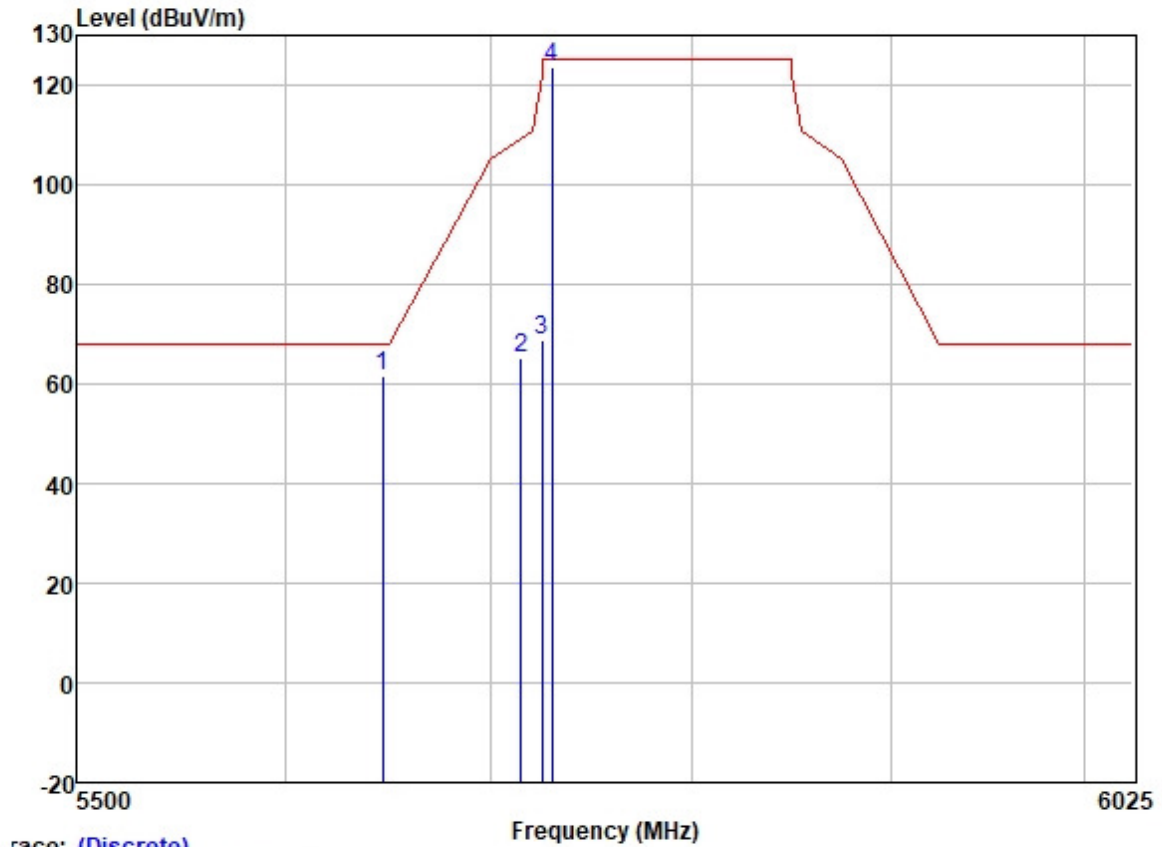
Test Mode: 26; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Trace: (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	5644.012	61.35	31.95	6.35	36.89	62.76	68.20	-5.44	HORIZONTAL	Peak
2	5715.000	64.37	32.04	6.33	36.89	65.85	109.40	-43.55	HORIZONTAL	Peak
3	5725.000	70.16	32.07	6.25	36.89	71.59	122.20	-50.61	HORIZONTAL	Peak
4	5730.120	121.66	32.07	6.25	36.89	123.09	125.20	-2.11	HORIZONTAL	Peak

Test Mode: 26; Polarity: Vertical; Modulation: OFDM; Channel: Low



Trace: (Discrete)

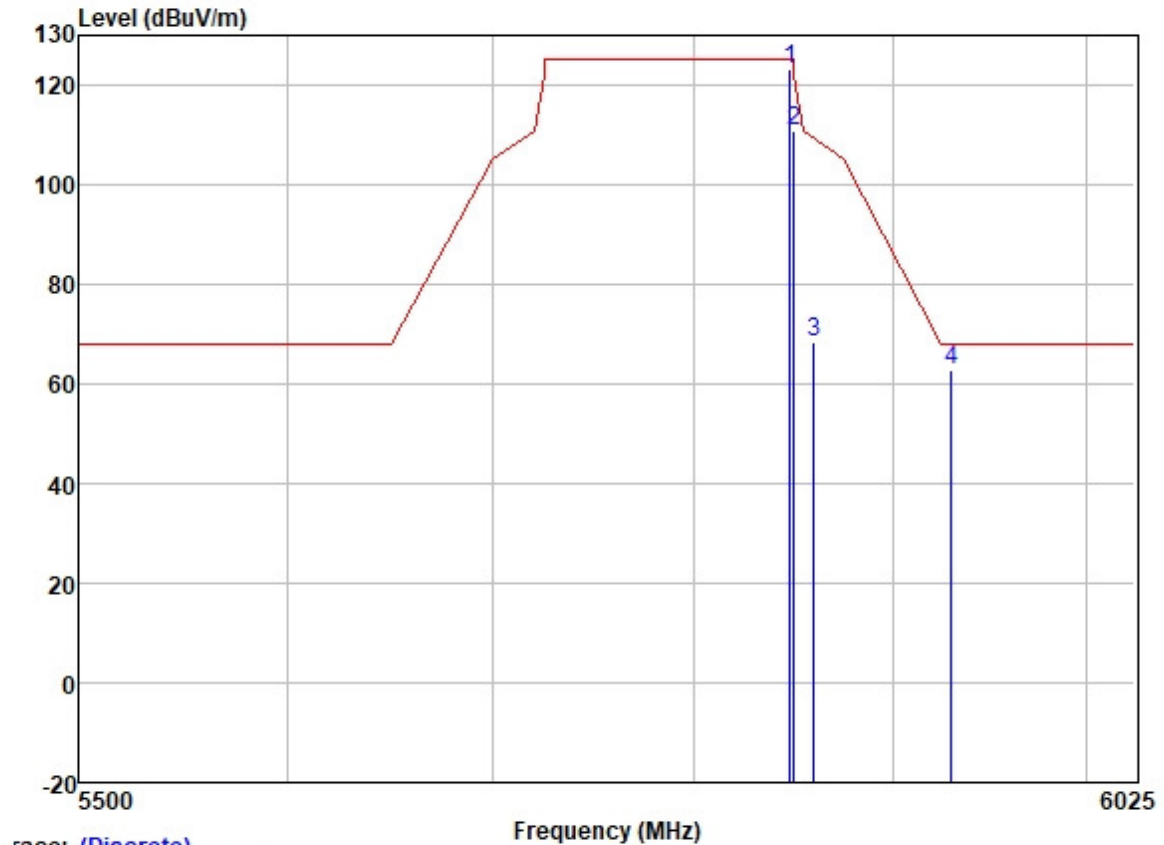
	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5646.919	60.26	31.95	6.35	36.89	61.67	68.20	-6.53	VERTICAL Peak
2	5715.000	63.85	32.04	6.33	36.89	65.33	109.40	-44.07	VERTICAL Peak
3	5725.000	67.29	32.07	6.25	36.89	68.72	122.20	-53.48	VERTICAL Peak
4	5730.120	122.32	32.07	6.25	36.89	123.75	125.20	-1.45	VERTICAL Peak



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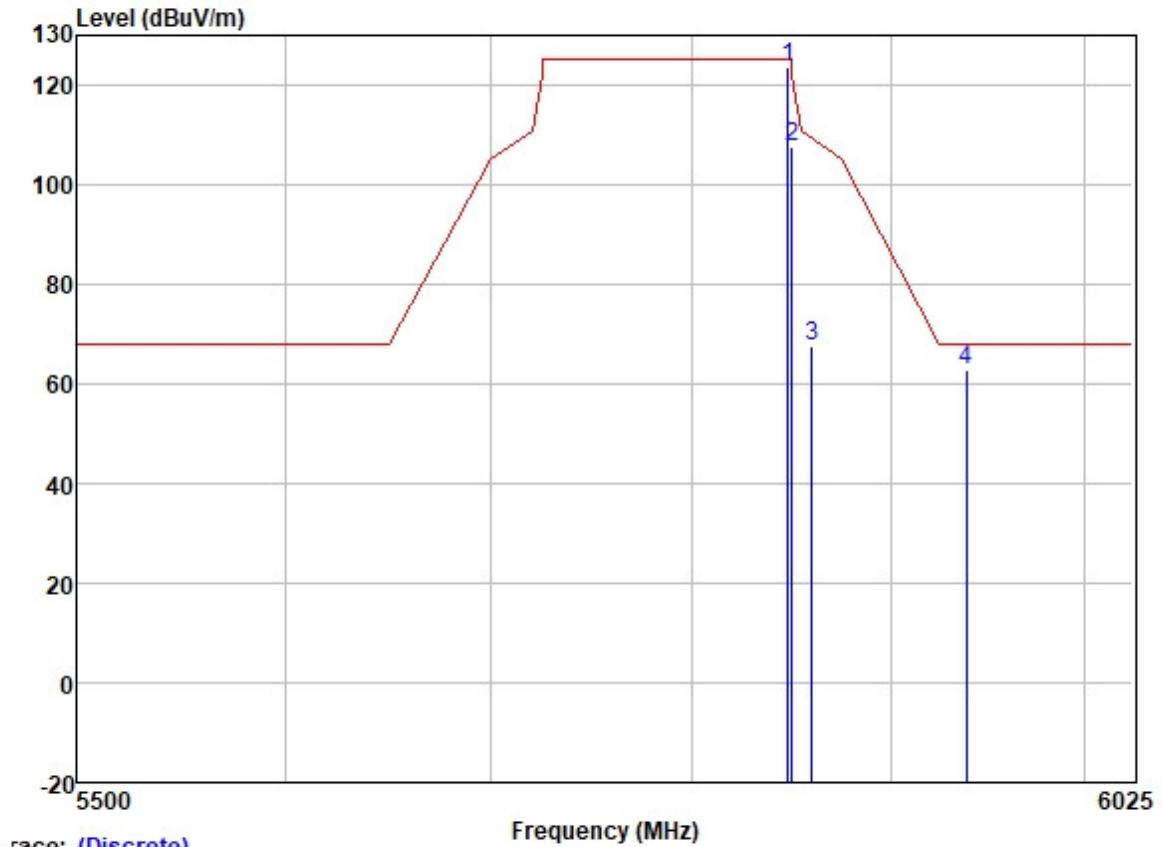
Test Mode: 26; Polarity: Horizontal; Modulation: OFDM; Channel: High



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	5848.120	121.94	32.25	6.00	36.90	123.29	125.20	-1.91	HORIZONTAL Peak
2	5850.000	109.39	32.25	6.00	36.90	110.74	122.20	-11.46	HORIZONTAL Peak
3	5860.000	67.08	32.27	5.96	36.90	68.41	109.40	-40.99	HORIZONTAL Peak
4	5930.287	61.52	32.34	6.00	36.90	62.96	68.20	-5.24	HORIZONTAL Peak

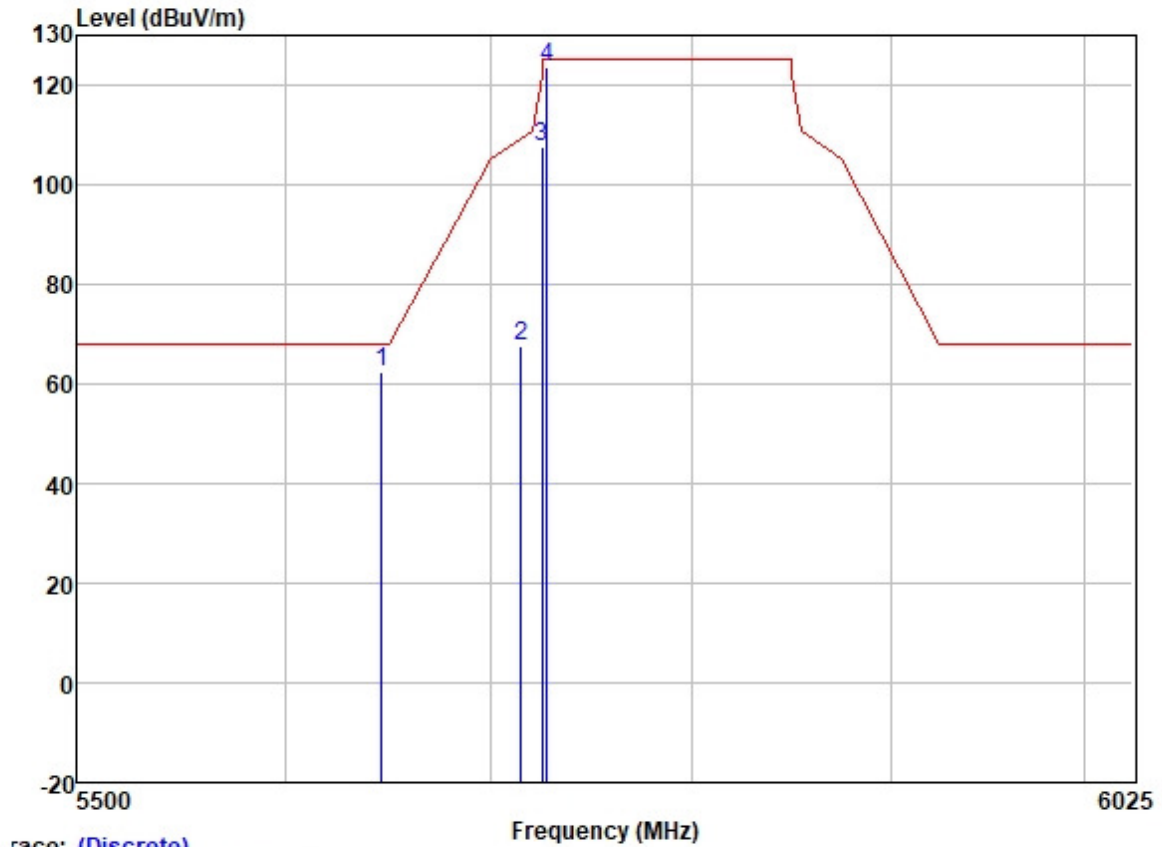
Test Mode: 26; Polarity: Vertical; Modulation:OFDM; Channel:High



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	5848.120	122.27	32.25	6.00	36.90	123.62	125.20	-1.58	VERTICAL Peak
2	5850.000	106.11	32.25	6.00	36.90	107.46	122.20	-14.74	VERTICAL Peak
3	5860.000	66.28	32.27	5.96	36.90	67.61	109.40	-41.79	VERTICAL Peak
4	5938.958	61.43	32.34	6.00	36.90	62.87	68.20	-5.33	VERTICAL Peak

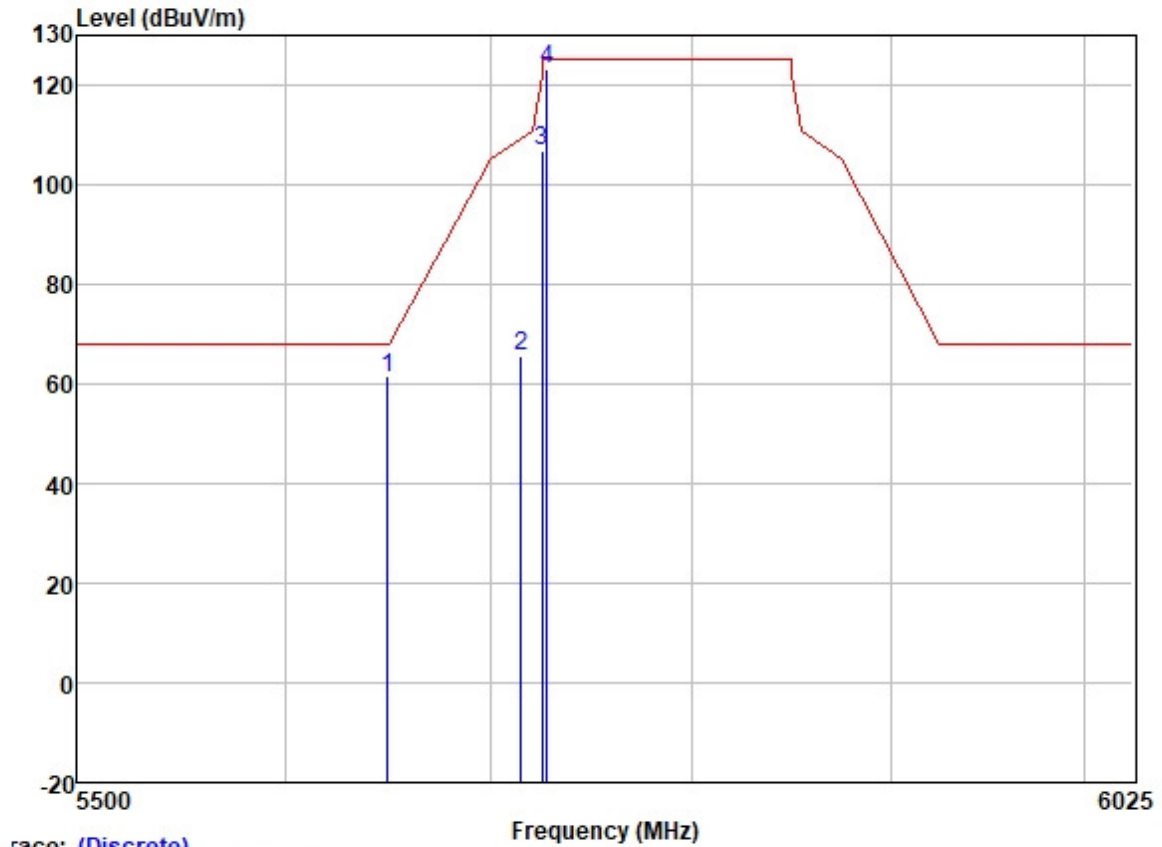
Test Mode: 27; Polarity: Horizontal; Modulation: OFDM; Channel: Low



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	5646.503	61.07	31.95	6.35	36.89	62.48	68.20	-5.72	HORIZONTAL Peak
2	5715.000	66.16	32.04	6.33	36.89	67.64	109.40	-41.76	HORIZONTAL Peak
3	5725.000	106.07	32.07	6.25	36.89	107.50	122.20	-14.70	HORIZONTAL Peak
4	5727.500	122.14	32.07	6.25	36.89	123.57	125.20	-1.63	HORIZONTAL Peak

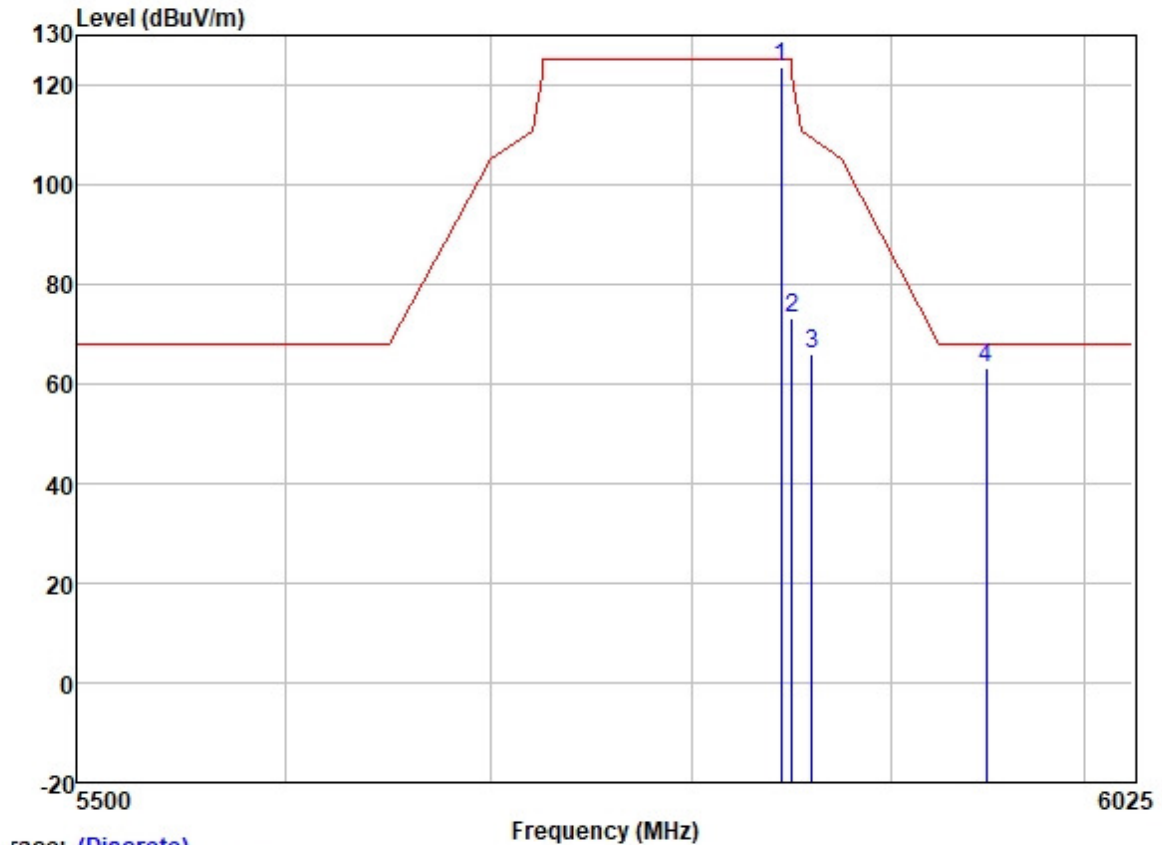
Test Mode: 27; Polarity: Vertical; Modulation:OFDM; Channel:Low



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	5649.135	59.99	31.95	6.35	36.89	61.40	68.20	-6.80	VERTICAL Peak
2	5715.000	64.29	32.04	6.33	36.89	65.77	109.40	-43.63	VERTICAL Peak
3	5725.000	105.29	32.07	6.25	36.89	106.72	122.20	-15.48	VERTICAL Peak
4	5727.500	121.59	32.07	6.25	36.89	123.02	125.20	-2.18	VERTICAL Peak

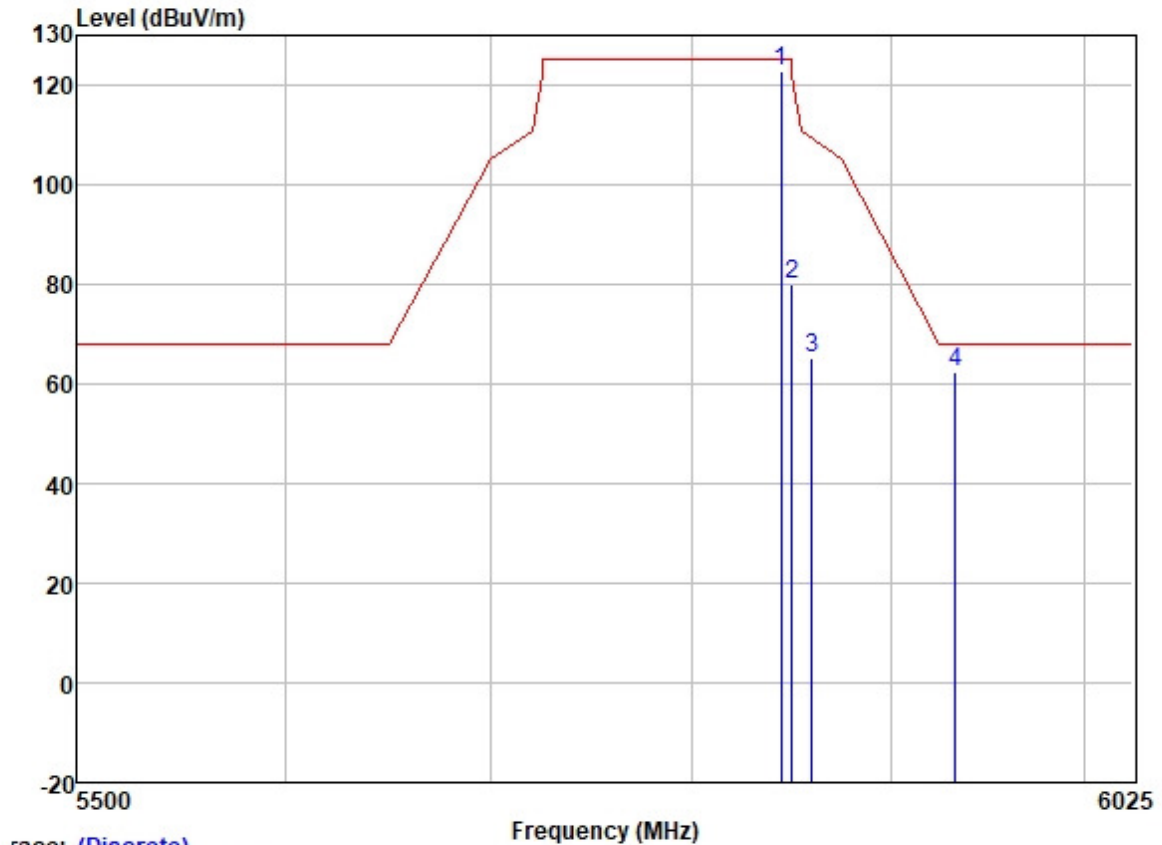
Test Mode: 27; Polarity: Horizontal; Modulation: OFDM; Channel: High



Trace: (Discrete)

	Read Freq	Antenna Level	Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5844.500	122.08	32.25	6.00	36.90	123.43	125.20	-1.77	HORIZONTAL Peak
2	5850.000	71.72	32.25	6.00	36.90	73.07	122.20	-49.13	HORIZONTAL Peak
3	5860.000	64.73	32.27	5.96	36.90	66.06	109.40	-43.34	HORIZONTAL Peak
4	5948.979	61.61	32.36	6.05	36.90	63.12	68.20	-5.08	HORIZONTAL Peak

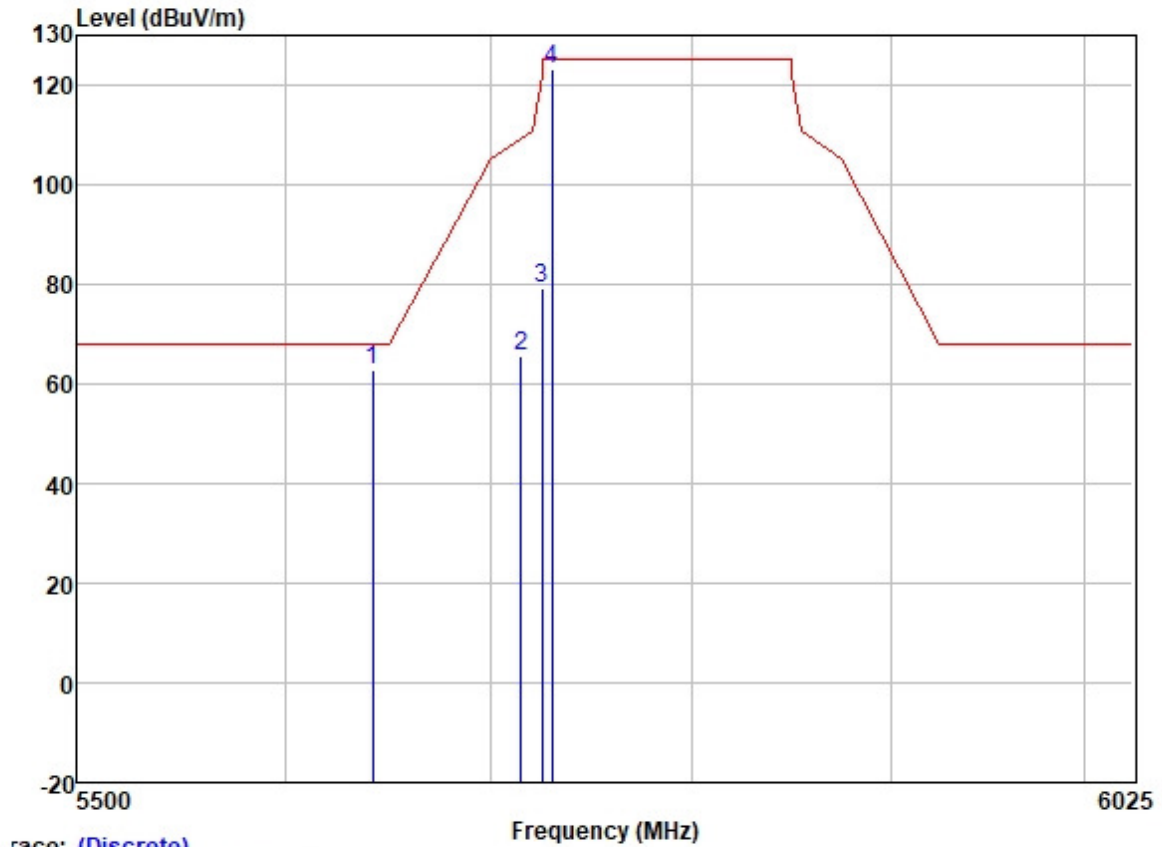
Test Mode: 27; Polarity: Vertical; Modulation: OFDM; Channel: High



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	5844.500	121.47	32.25	6.00	36.90	122.82	-2.38	VERTICAL	Peak
2	5850.000	78.60	32.25	6.00	36.90	79.95	-42.25	VERTICAL	Peak
3	5860.000	63.70	32.27	5.96	36.90	65.03	-44.37	VERTICAL	Peak
4	5933.287	60.90	32.34	6.00	36.90	62.34	-5.86	VERTICAL	Peak

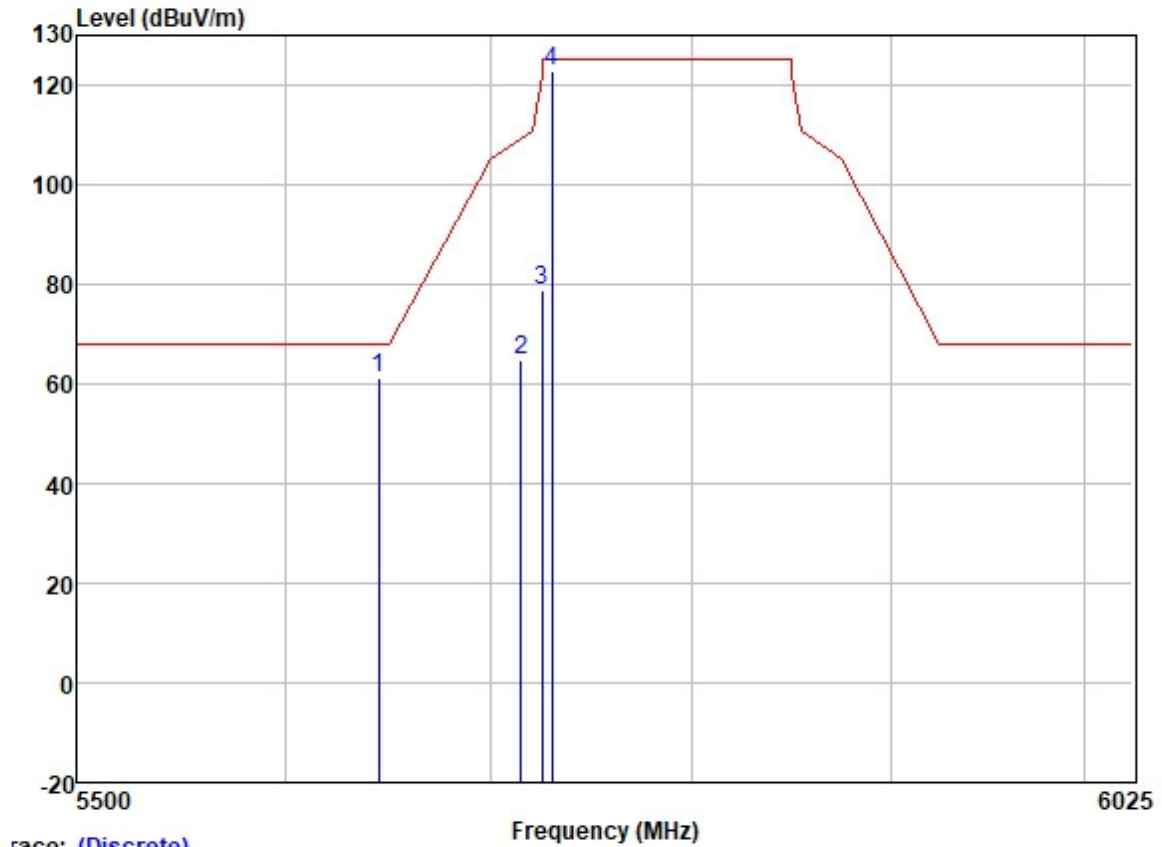
Test Mode: 28; Polarity: Horizontal; Modulation:OFDM; Channel:Low



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	5642.075	61.25	31.95	6.35	36.89	62.66	68.20	-5.54	HORIZONTAL	Peak
2	5715.000	64.28	32.04	6.33	36.89	65.76	109.40	-43.64	HORIZONTAL	Peak
3	5725.000	77.95	32.07	6.25	36.89	79.38	122.20	-42.82	HORIZONTAL	Peak
4	5730.200	121.58	32.07	6.25	36.89	123.01	125.20	-2.19	HORIZONTAL	Peak

Test Mode: 28; Polarity: Vertical; Modulation: OFDM; Channel: Low



Trace: (Discrete)

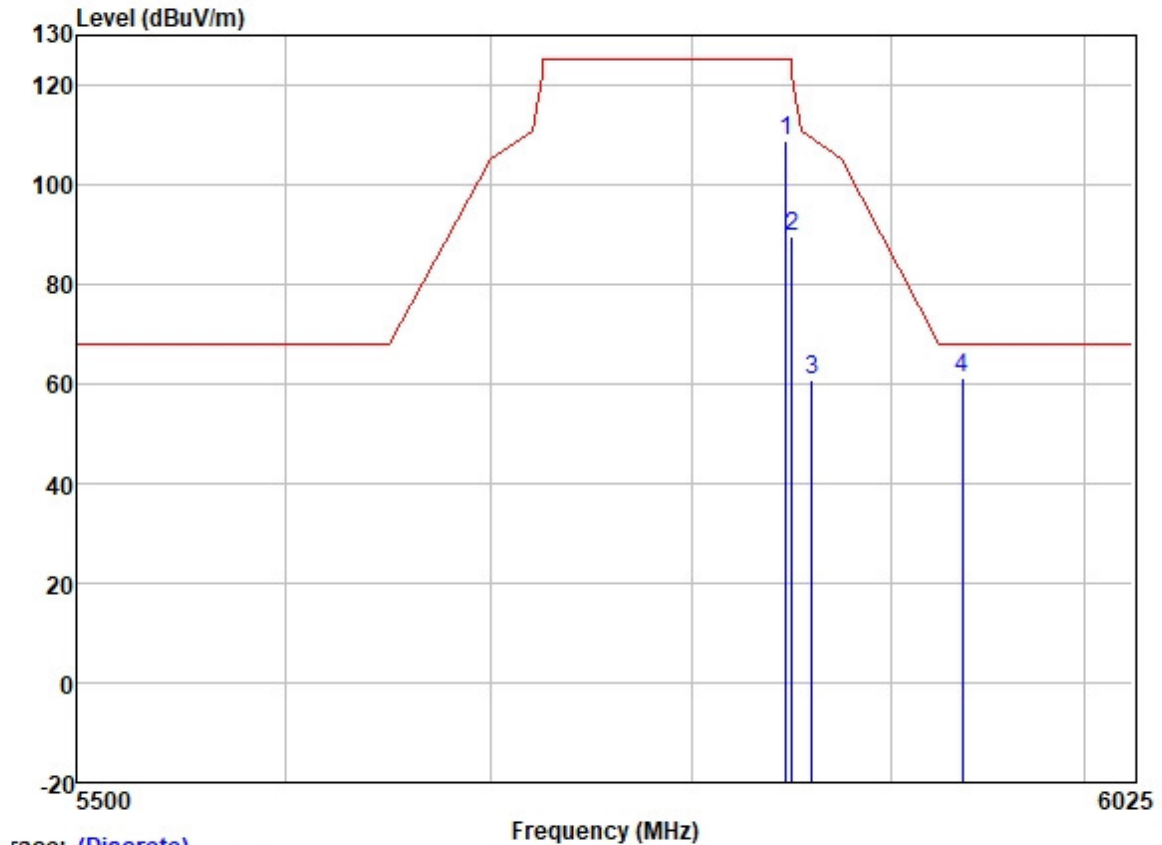
	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5645.119	59.85	31.95	6.35	36.89	61.26	68.20	-6.94	VERTICAL Peak
2	5715.000	63.13	32.04	6.33	36.89	64.61	109.40	-44.79	VERTICAL Peak
3	5725.000	77.18	32.07	6.25	36.89	78.61	122.20	-43.59	VERTICAL Peak
4	5730.200	121.39	32.07	6.25	36.89	122.82	125.20	-2.38	VERTICAL Peak



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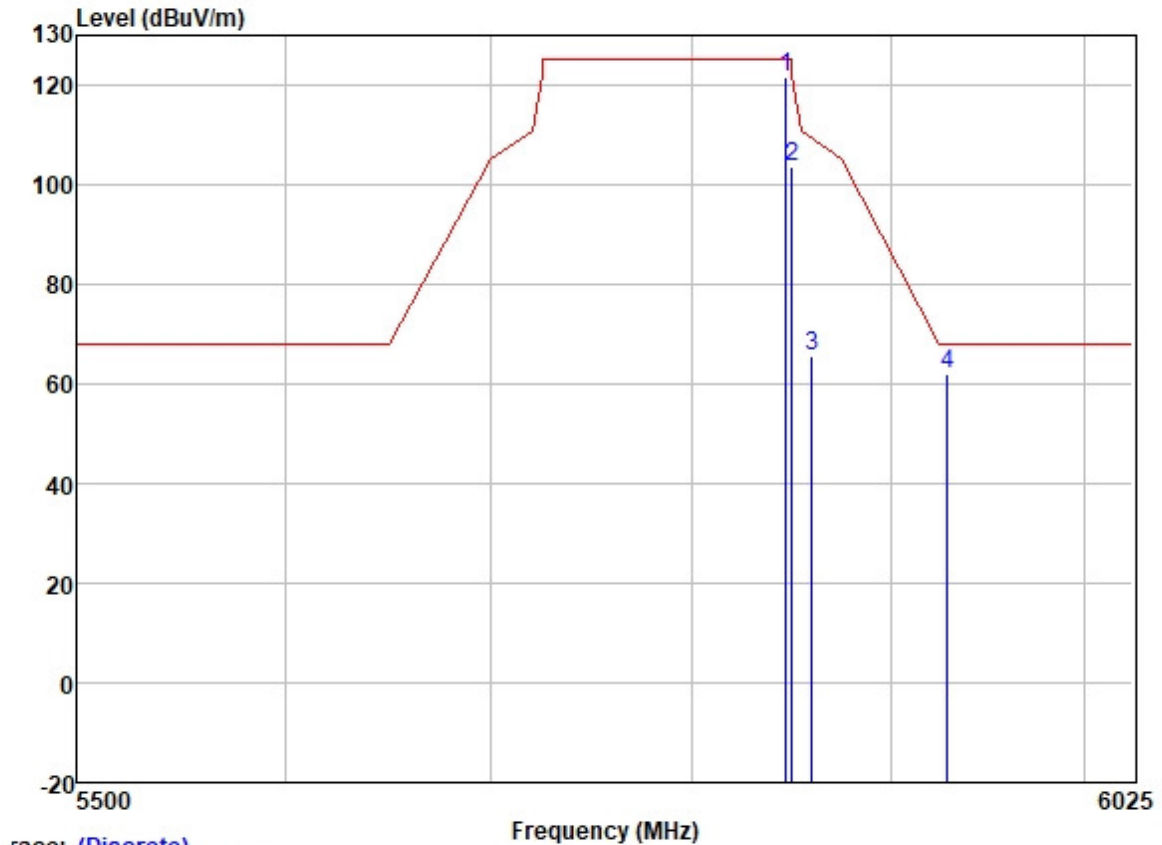
Test Mode: 28; Polarity: Horizontal; Modulation: OFDM; Channel: High



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	5847.200	107.37	32.25	6.00	36.90	108.72	125.20	-16.48	HORIZONTAL Peak
2	5850.000	88.07	32.25	6.00	36.90	89.42	122.20	-32.78	HORIZONTAL Peak
3	5860.000	59.31	32.27	5.96	36.90	60.64	109.40	-48.76	HORIZONTAL Peak
4	5936.789	59.69	32.34	6.00	36.90	61.13	68.20	-7.07	HORIZONTAL Peak

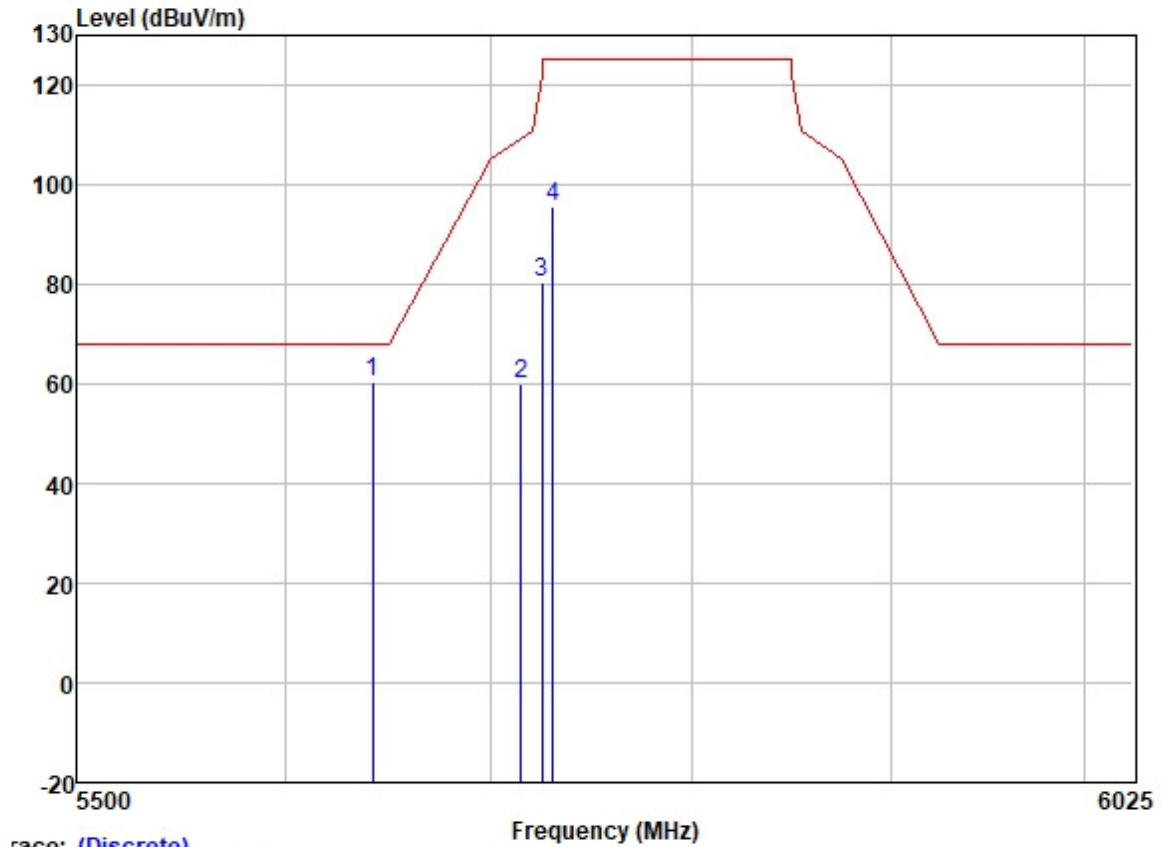
Test Mode: 28; Polarity: Vertical; Modulation:OFDM; Channel:High



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	5847.200	120.31	32.25	6.00	36.90	121.66	125.20	-3.54	VERTICAL Peak
2	5850.000	102.16	32.25	6.00	36.90	103.51	122.20	-18.69	VERTICAL Peak
3	5860.000	64.08	32.27	5.96	36.90	65.41	109.40	-43.99	VERTICAL Peak
4	5929.121	60.42	32.34	6.00	36.90	61.86	68.20	-6.34	VERTICAL Peak

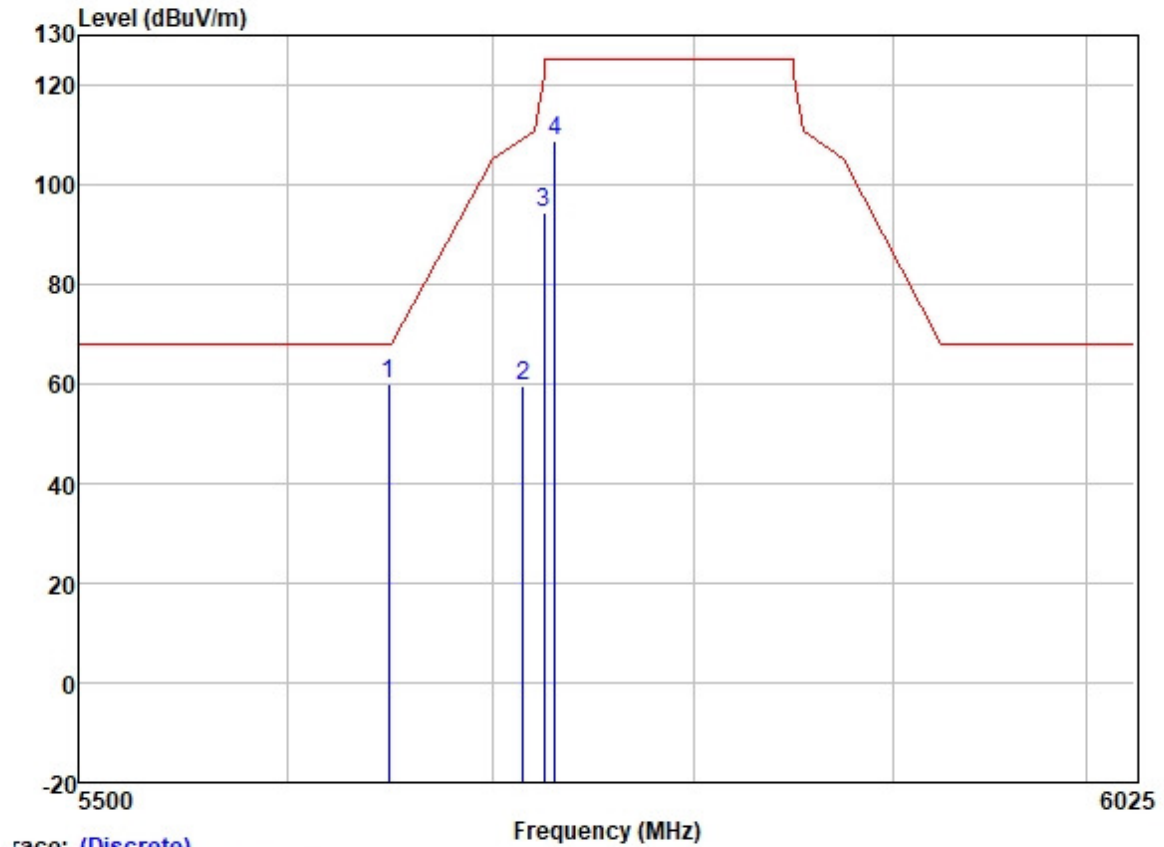
Test Mode: 29; Polarity: Horizontal; Modulation:OFDM; Channel:Low



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	5641.937	59.04	31.95	6.35	36.89	60.45	68.20	-7.75	HORIZONTAL	Peak
2	5715.000	58.34	32.04	6.33	36.89	59.82	109.40	-49.58	HORIZONTAL	Peak
3	5725.000	78.84	32.07	6.25	36.89	80.27	122.20	-41.93	HORIZONTAL	Peak
4	5730.500	94.01	32.07	6.25	36.89	95.44	125.20	-29.76	HORIZONTAL	Peak

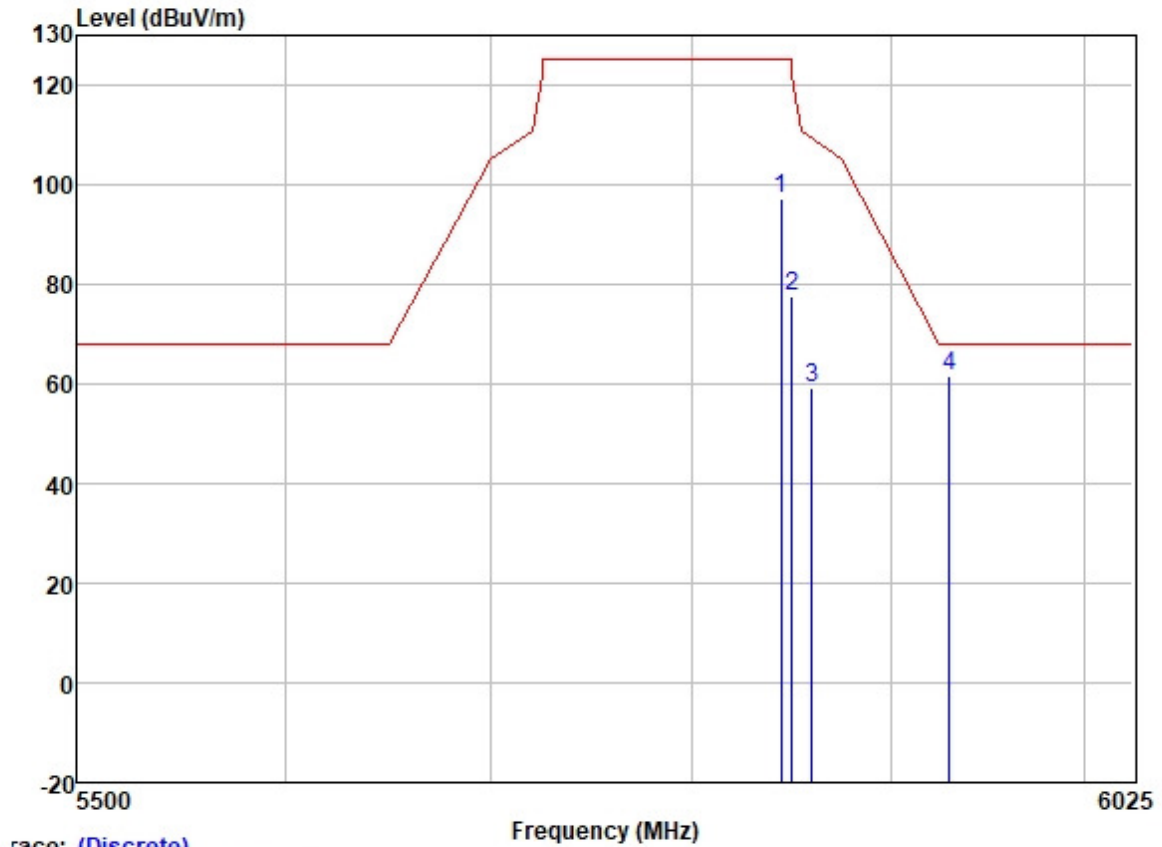
Test Mode: 29; Polarity: Vertical; Modulation:OFDM; Channel:Low



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	5648.996	58.43	31.95	6.35	36.89	59.84	68.20	-8.36	VERTICAL Peak
2	5715.000	58.18	32.04	6.33	36.89	59.66	109.40	-49.74	VERTICAL Peak
3	5725.000	93.10	32.07	6.25	36.89	94.53	122.20	-27.67	VERTICAL Peak
4	5730.500	107.39	32.07	6.25	36.89	108.82	125.20	-16.38	VERTICAL Peak

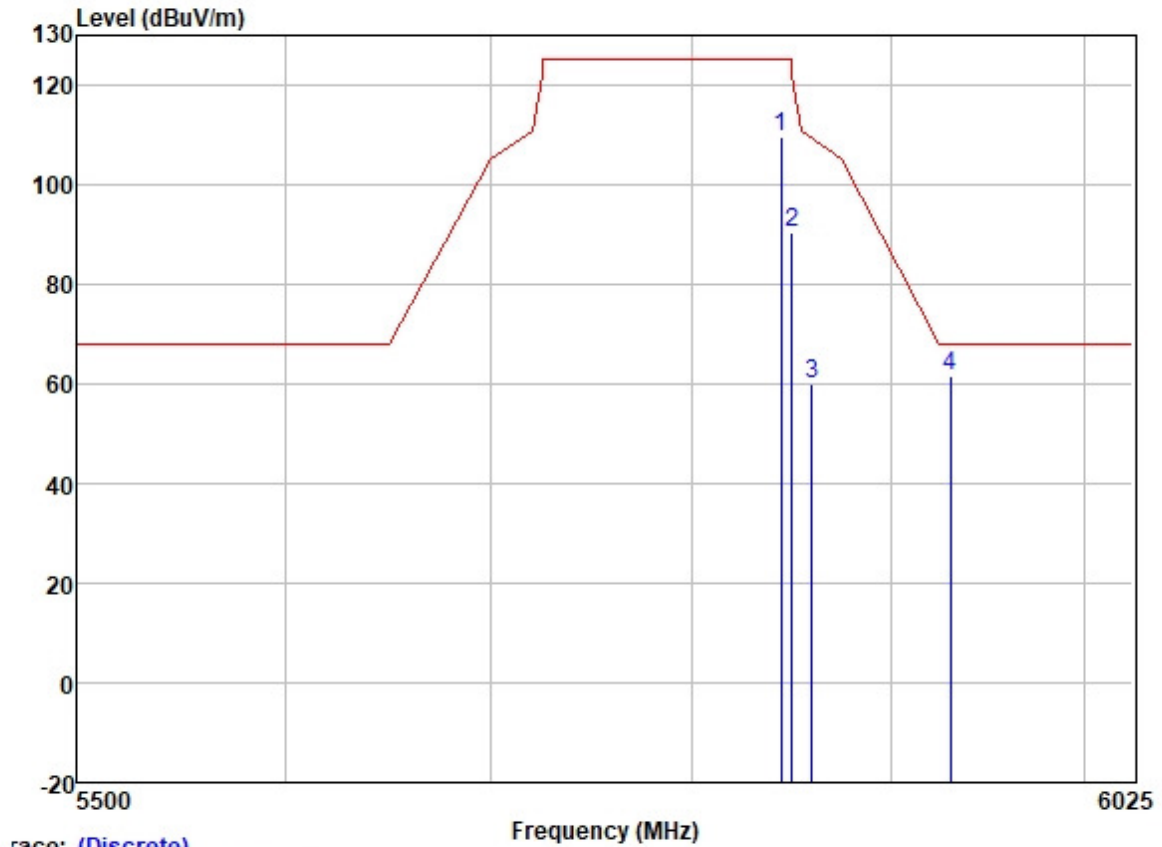
Test Mode: 29; Polarity: Horizontal; Modulation: OFDM; Channel: High



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	5844.500	95.66	32.25	6.00	36.90	97.01	125.20	-28.19	HORIZONTAL Peak
2	5850.000	76.27	32.25	6.00	36.90	77.62	122.20	-44.58	HORIZONTAL Peak
3	5860.000	58.00	32.27	5.96	36.90	59.33	109.40	-50.07	HORIZONTAL Peak
4	5930.120	60.34	32.34	6.00	36.90	61.78	68.20	-6.42	HORIZONTAL Peak

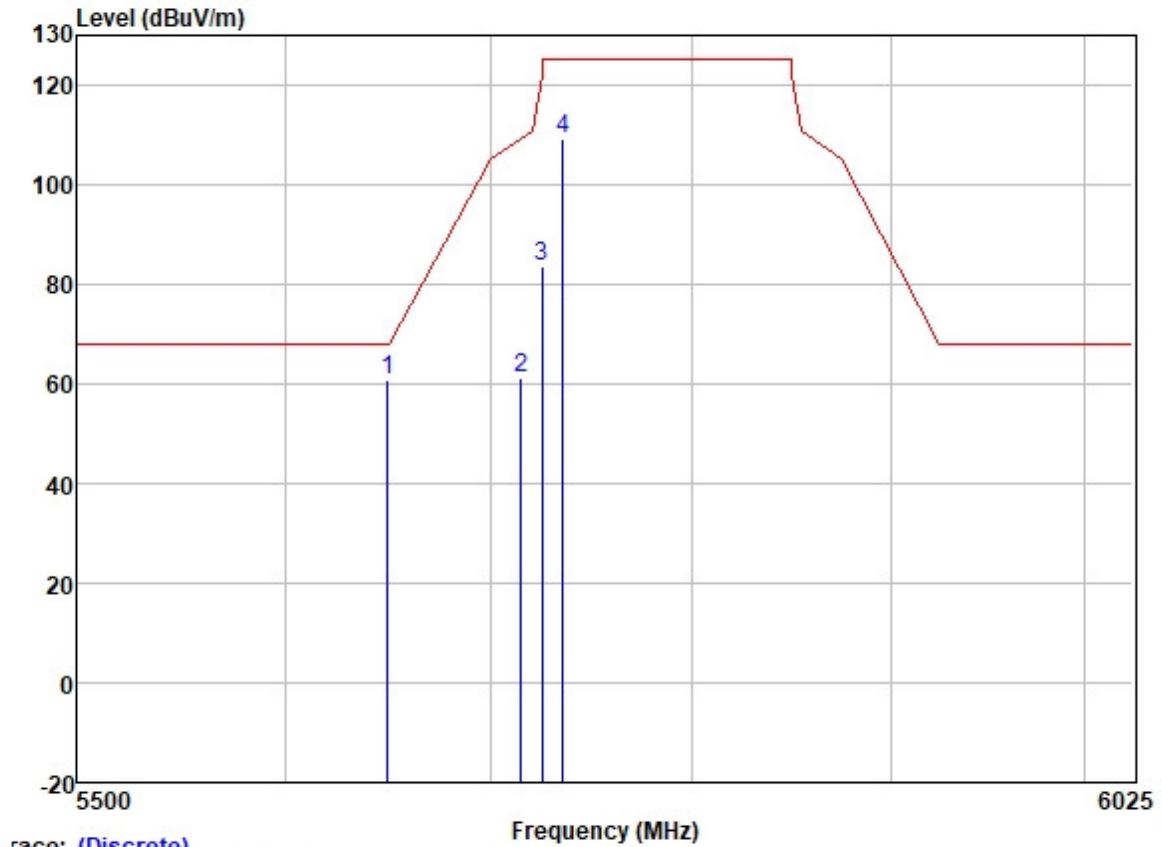
Test Mode: 29; Polarity: Vertical; Modulation:OFDM; Channel:High



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	5844.500	108.34	32.25	6.00	36.90	109.69	125.20	-15.51	VERTICAL Peak
2	5850.000	89.07	32.25	6.00	36.90	90.42	122.20	-31.78	VERTICAL Peak
3	5860.000	58.57	32.27	5.96	36.90	59.90	109.40	-49.50	VERTICAL Peak
4	5930.620	60.03	32.34	6.00	36.90	61.47	68.20	-6.73	VERTICAL Peak

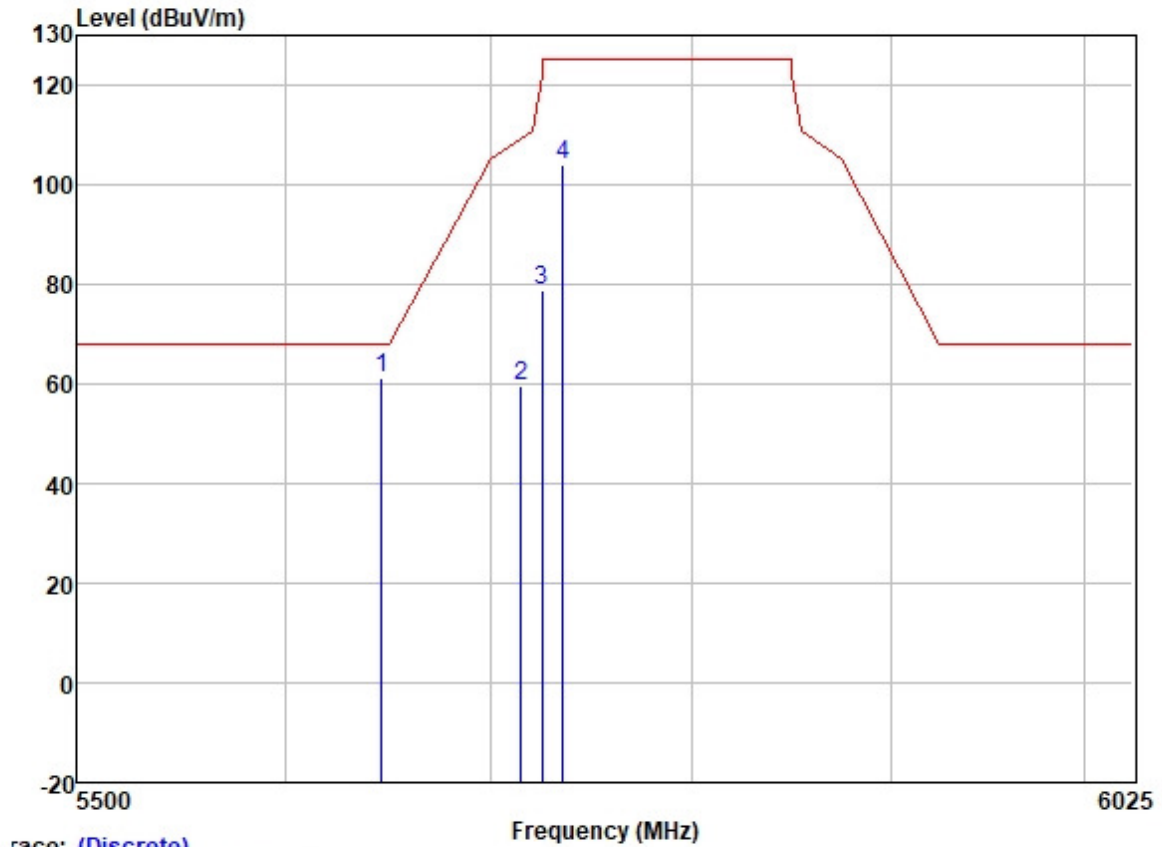
Test Mode: 30; Polarity: Horizontal; Modulation: OFDM; Channel: Low



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	5649.135	59.37	31.95	6.35	36.89	60.78	68.20	-7.42	HORIZONTAL	Peak
2	5715.000	59.62	32.04	6.33	36.89	61.10	109.40	-48.30	HORIZONTAL	Peak
3	5725.000	82.02	32.07	6.25	36.89	83.45	122.20	-38.75	HORIZONTAL	Peak
4	5735.500	107.61	32.07	6.25	36.89	109.04	125.20	-16.16	HORIZONTAL	Peak

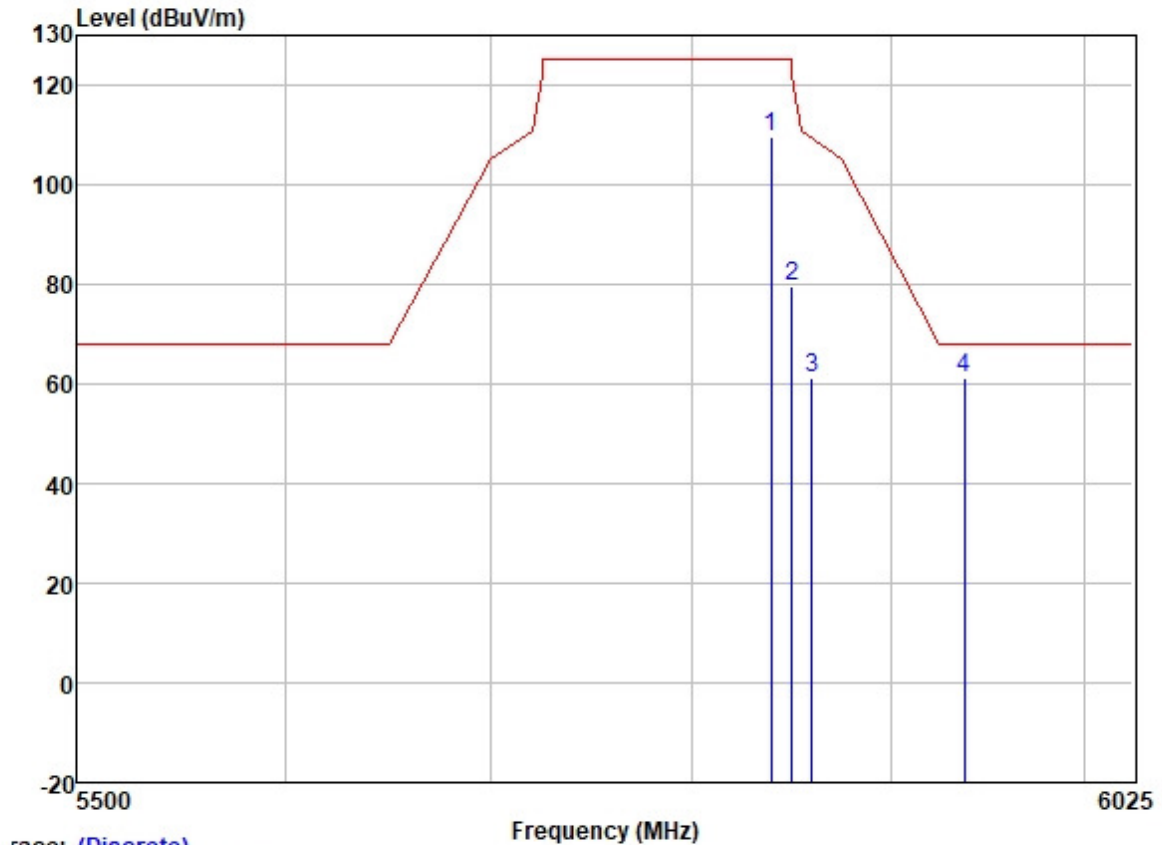
Test Mode: 30; Polarity: Vertical; Modulation:OFDM; Channel:Low



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	5646.227	59.75	31.95	6.35	36.89	61.16	68.20	-7.04	VERTICAL	Peak
2	5715.000	58.08	32.04	6.33	36.89	59.56	109.40	-49.84	VERTICAL	Peak
3	5725.000	77.41	32.07	6.25	36.89	78.84	122.20	-43.36	VERTICAL	Peak
4	5735.500	102.56	32.07	6.25	36.89	103.99	125.20	-21.21	VERTICAL	Peak

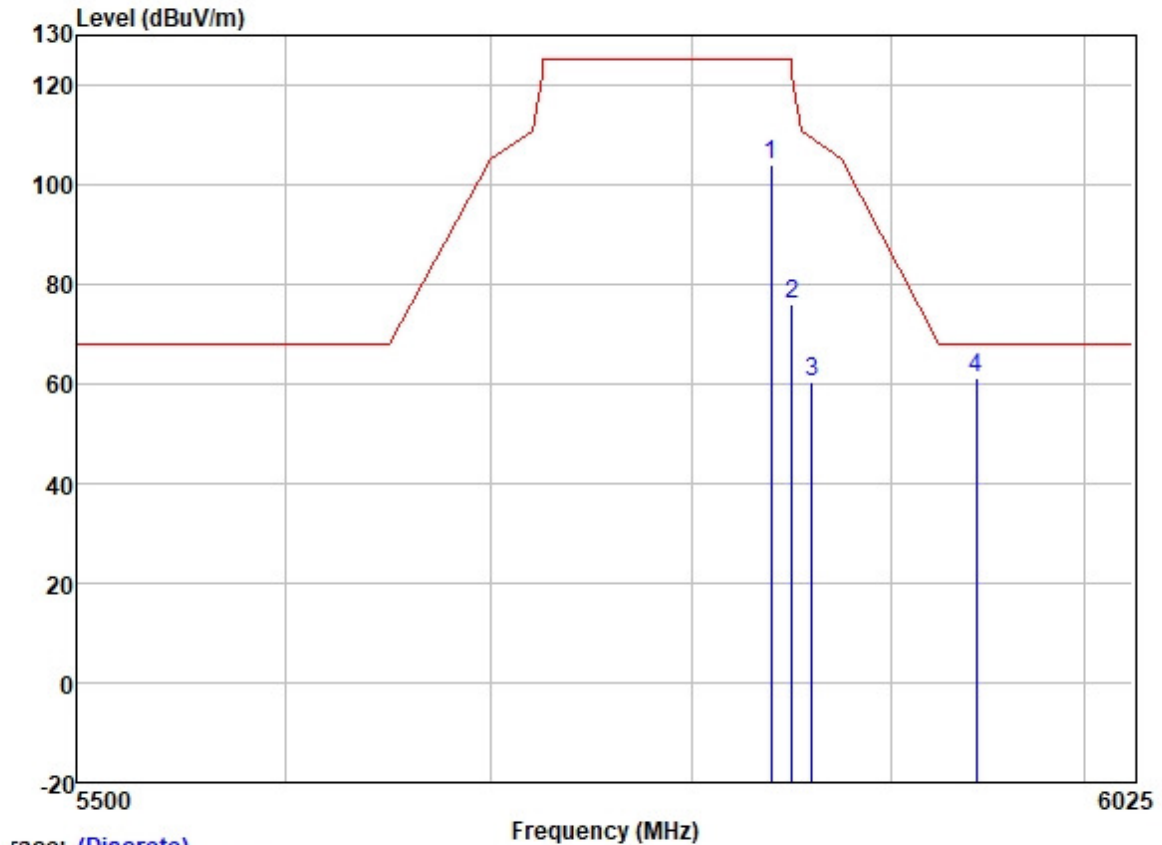
Test Mode: 30; Polarity: Horizontal; Modulation: OFDM; Channel: High



Trace: (Discrete)

	Read Freq	Antenna Level	Factor	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	5839.500	108.36	32.25	6.00	36.90	109.71	125.20	-15.49	HORIZONTAL Peak
2	5850.000	78.11	32.25	6.00	36.90	79.46	122.20	-42.74	HORIZONTAL Peak
3	5860.000	59.88	32.27	5.96	36.90	61.21	109.40	-48.19	HORIZONTAL Peak
4	5937.623	59.79	32.34	6.00	36.90	61.23	68.20	-6.97	HORIZONTAL Peak

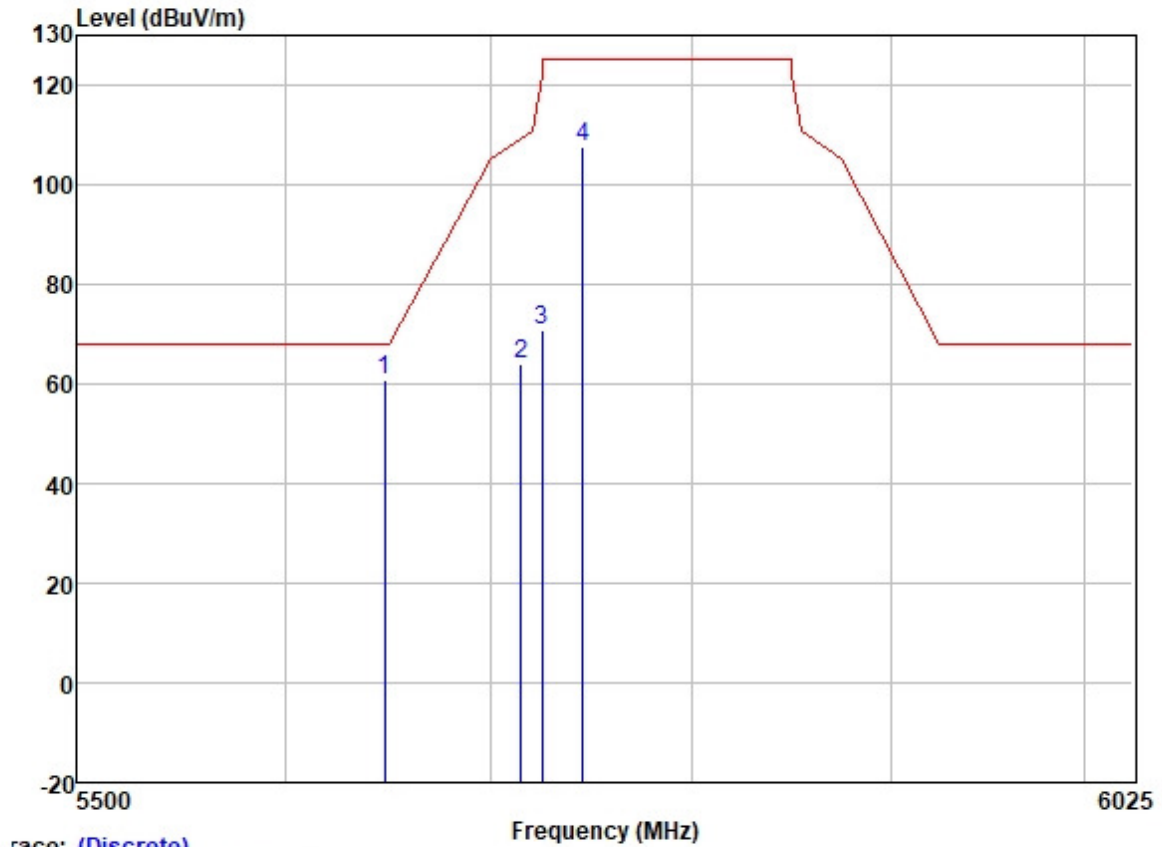
Test Mode: 30; Polarity: Vertical; Modulation: OFDM; Channel: High



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	5839.500	102.68	32.25	6.00	36.90	104.03	125.20	-21.17	VERTICAL	Peak
2	5850.000	74.57	32.25	6.00	36.90	75.92	122.20	-46.28	VERTICAL	Peak
3	5860.000	58.95	32.27	5.96	36.90	60.28	109.40	-49.12	VERTICAL	Peak
4	5943.966	59.84	32.36	6.05	36.90	61.35	68.20	-6.85	VERTICAL	Peak

Test Mode: 31; Polarity: Horizontal; Modulation: OFDM; Channel: Low

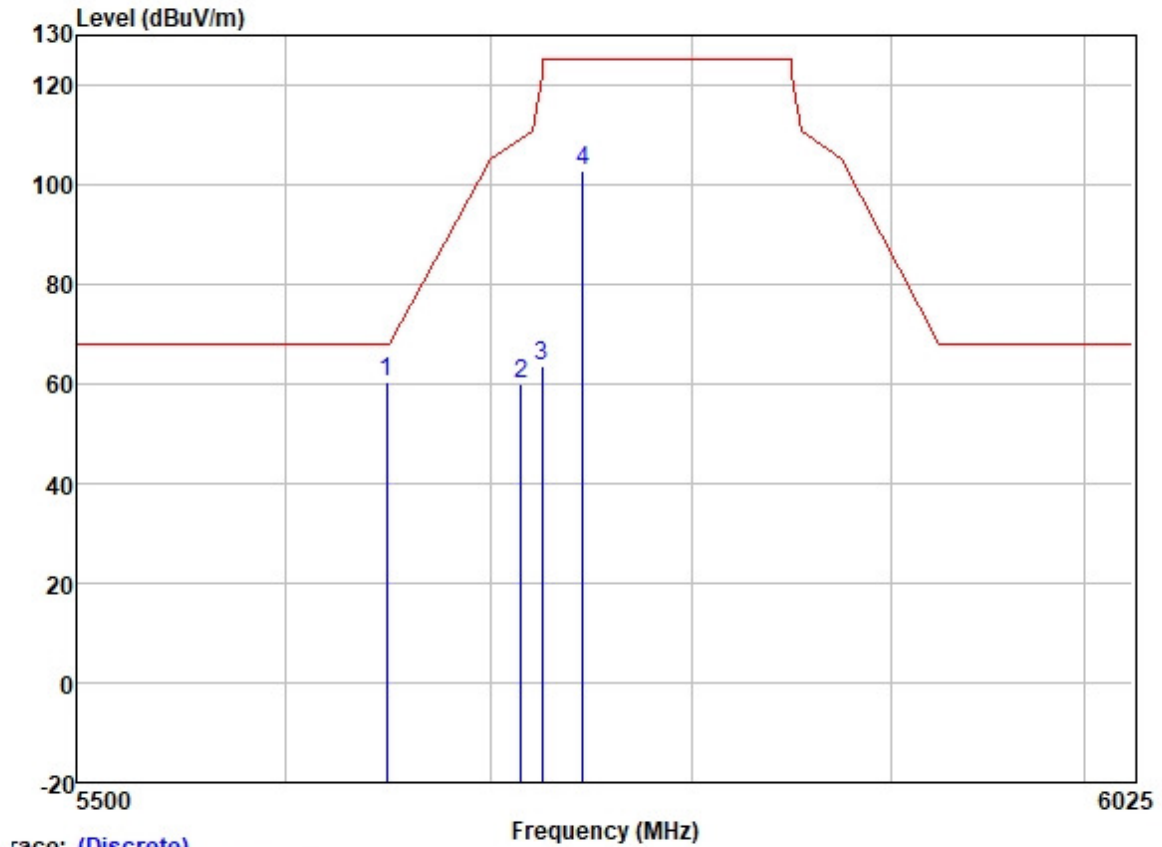


Trace: (Discrete)

		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	5647.888	59.46	31.95	6.35	36.89	60.87	68.20	-7.33	HORIZONTAL	Peak
2	5715.000	62.46	32.04	6.33	36.89	63.94	109.40	-45.46	HORIZONTAL	Peak
3	5725.000	69.41	32.07	6.25	36.89	70.84	122.20	-51.36	HORIZONTAL	Peak
4	5745.500	106.37	32.10	6.20	36.89	107.78	125.20	-17.42	HORIZONTAL	Peak



Test Mode: 31; Polarity: Vertical; Modulation: OFDM; Channel: Low



Trace: (Discrete)

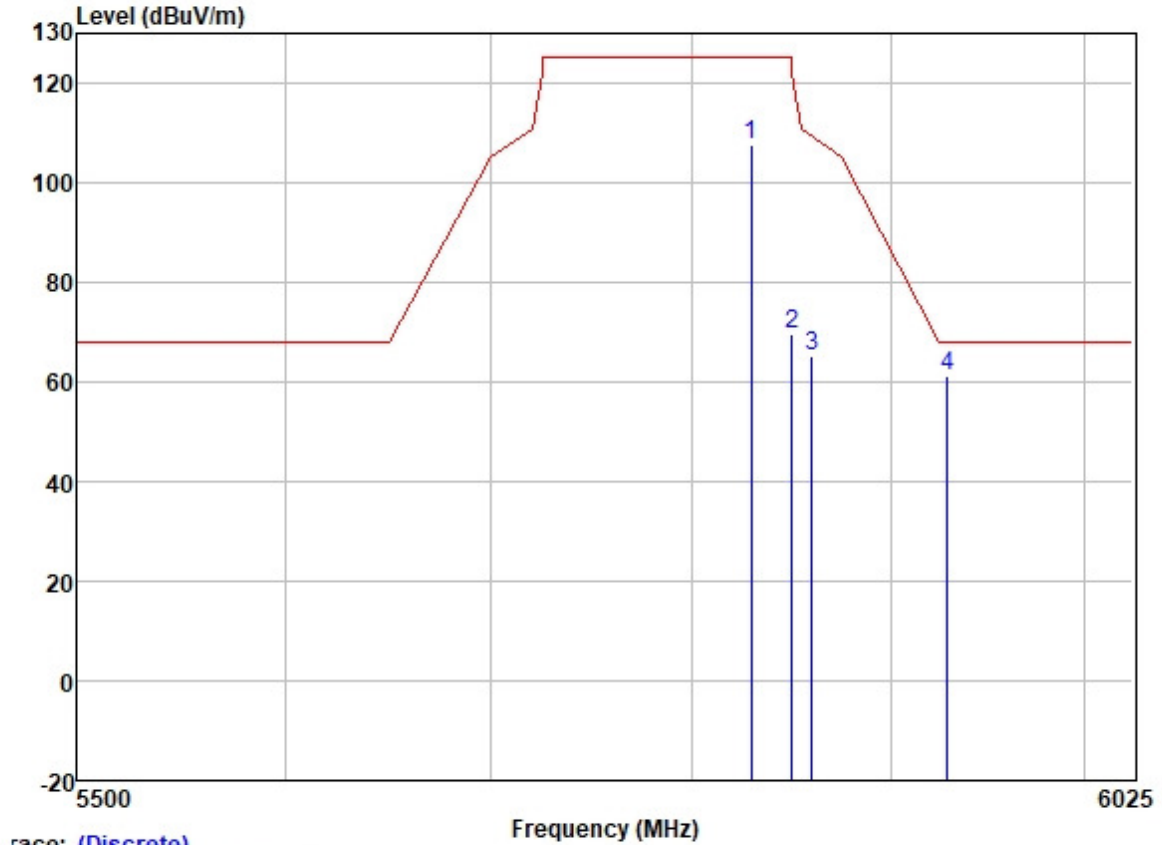
	Read	Antenna	Cable	Preamp		Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5648.857	58.87	31.95	6.35	36.89	60.28	68.20	-7.92	VERTICAL Peak
2	5715.000	58.66	32.04	6.33	36.89	60.14	109.40	-49.26	VERTICAL Peak
3	5725.000	62.30	32.07	6.25	36.89	63.73	122.20	-58.47	VERTICAL Peak
4	5745.500	101.49	32.10	6.20	36.89	102.90	125.20	-22.30	VERTICAL Peak



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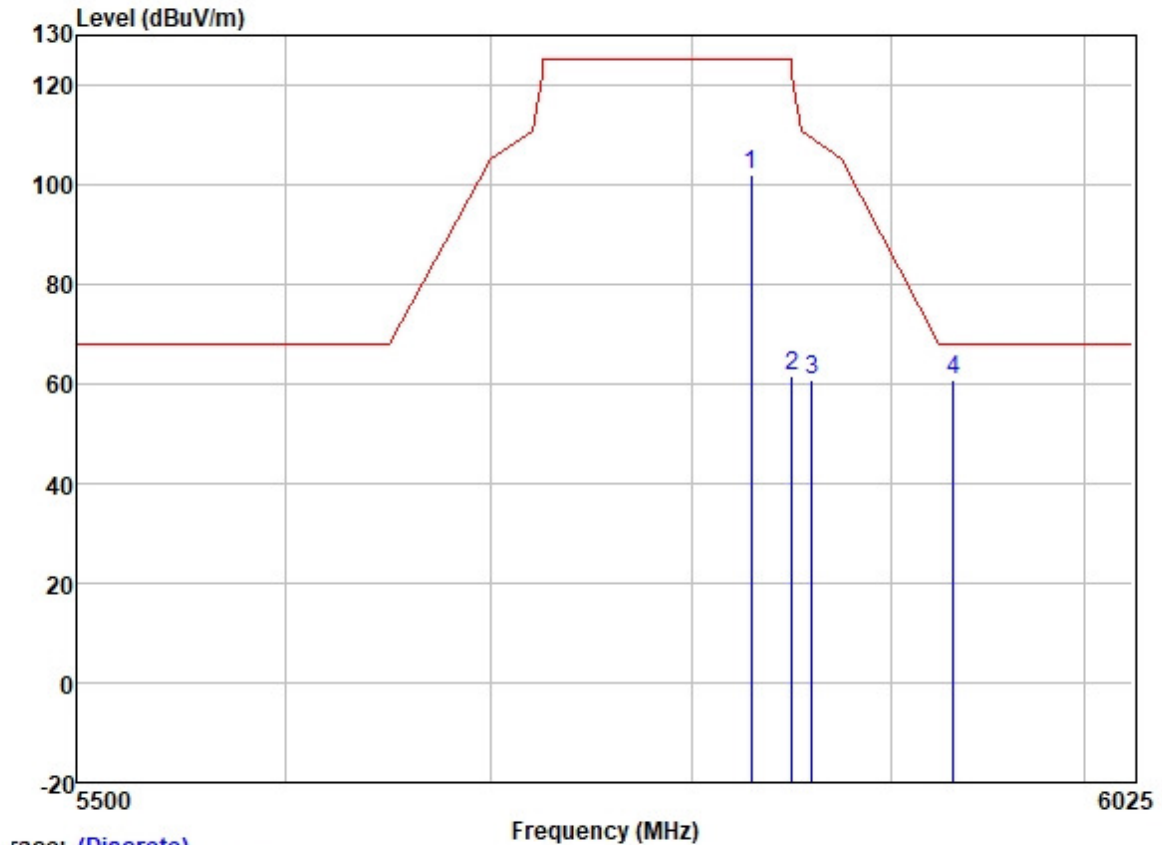
Test Mode: 31; Polarity: Horizontal; Modulation: OFDM; Channel: High



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	5829.500	106.15	32.23	6.04	36.90	107.52	125.20	-17.68	HORIZONTAL Peak
2	5850.000	68.44	32.25	6.00	36.90	69.79	122.20	-52.41	HORIZONTAL Peak
3	5860.000	63.91	32.27	5.96	36.90	65.24	109.40	-44.16	HORIZONTAL Peak
4	5929.121	59.91	32.34	6.00	36.90	61.35	68.20	-6.85	HORIZONTAL Peak

Test Mode: 31; Polarity: Vertical; Modulation: OFDM; 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	5829.500	100.83	32.23	6.04	36.90	102.20	125.20	-23.00	VERTICAL	Peak
2	5850.000	60.39	32.25	6.00	36.90	61.74	122.20	-60.46	VERTICAL	Peak
3	5860.000	59.33	32.27	5.96	36.90	60.66	109.40	-48.74	VERTICAL	Peak
4	5932.454	59.19	32.34	6.00	36.90	60.63	68.20	-7.57	VERTICAL	Peak

7.10 Band Edge

Test Requirement 47 CFR Part 15, Subpart E 15.407(b)

Test Method: KDB 789033 D02 II

Limit:

Frequency band(MHz)	Limit
5150-5250	-27dBm/MHz
5250-5350	-27dBm/MHz
5470-5725	-27dBm/MHz
5725-5850	Below 5650MHz & above 5925MHz, -27dBm/MHz 5650-5700MHz & 5875-5925MHz, 10dBm/MHz 5700-5720MHz & 5855-5875MHz, 15.6dBm/MHz 5720-5725MHz & 5850-5855MHz, 27dBm/MHz

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 22.9 °C

Humidity: 39.5 % RH

Atmospheric Pressure: 1010 mbar

7.10.1 Test Mode Description

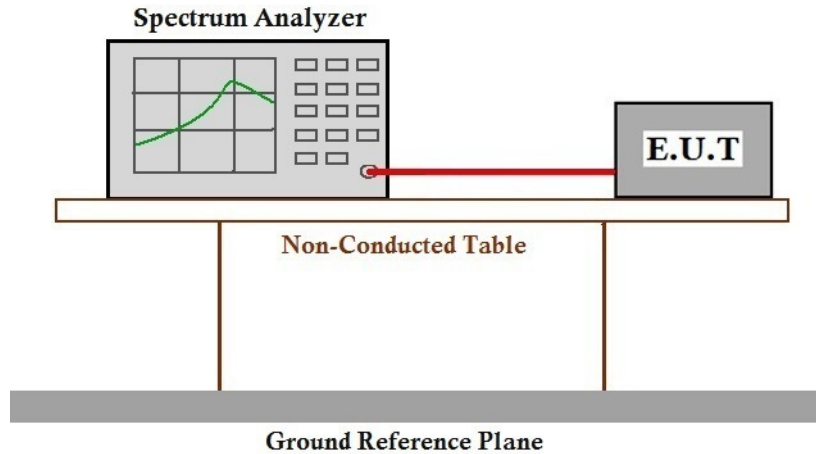
Pre-scan / Final test	Mode Code	Description
Final test	25	TX mode(1.4MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	26	TX mode(1.4MHz,CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	27	TX mode(3MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	28	TX mode(3MHz,CA)_Keep the EUT in continuously transmitting mode with modulation
Final test	29	TX mode(10MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	30	TX mode(20MHz)_Keep the EUT in continuously transmitting mode with modulation
Final test	31	TX mode(40MHz)_Keep the EUT in continuously transmitting mode with modulation



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7.10.2 Test Setup Diagram



7.10.3 Measurement Procedure and Data

Please Refer To Appendix For Details

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR2108020828AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2108020828AT



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10 Appendix

SISO Mode, Antenna 1

1. Maximum Conducted Output Power

1.1 Power

1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Measured Average Output Power (dBm)		Verdict
			Ant1	Limit	
1.4	SISO	5728.5	25.80	<=30	Pass
		5788.5	25.46	<=30	Pass
		5846.5	25.46	<=30	Pass
1.4 CA	SISO	5730.12	25.75	<=30	Pass
		5790.12	25.97	<=30	Pass
		5848.12	25.64	<=30	Pass
3	SISO	5727.5	26.02	<=30	Pass
		5787.5	25.64	<=30	Pass
		5844.5	26.08	<=30	Pass
3 CA	SISO	5730.2	25.99	<=30	Pass
		5790.2	25.65	<=30	Pass
		5847.2	25.33	<=30	Pass
10	SISO	5730.5	16.16	<=30	Pass
		5787.5	16.56	<=30	Pass
		5844.5	16.33	<=30	Pass
20	SISO	5735.5	16.62	<=30	Pass
		5787.5	16.47	<=30	Pass
		5839.5	16.24	<=30	Pass
40	SISO	5745.5	16.46	<=30	Pass
		5787.5	16.43	<=30	Pass
		5829.5	16.36	<=30	Pass

Note1: Antenna Gain: Ant1: 3.50dBi;

2. Maximum Power Spectral Density

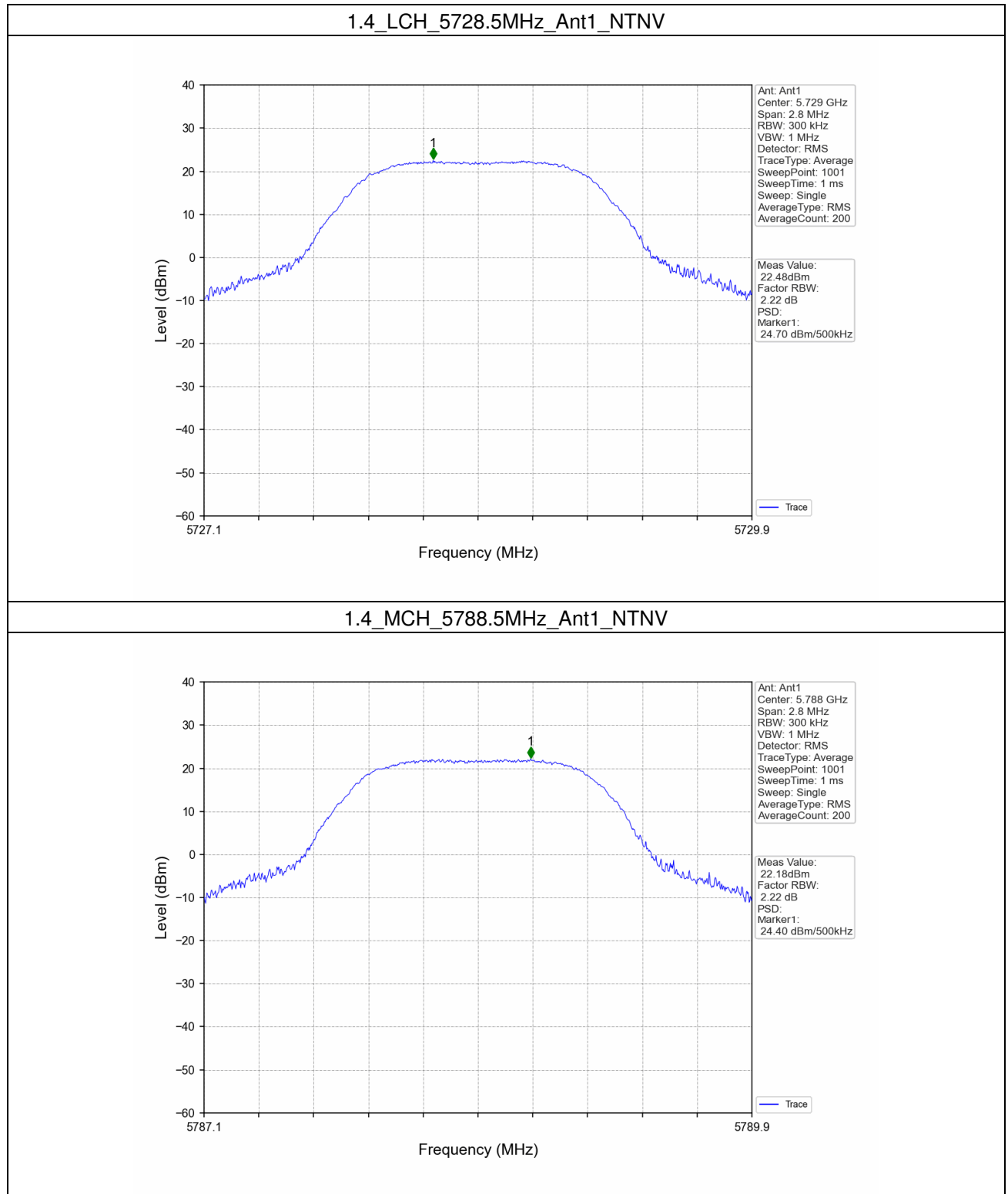
2.1 PSD

2.1.1 Test Result

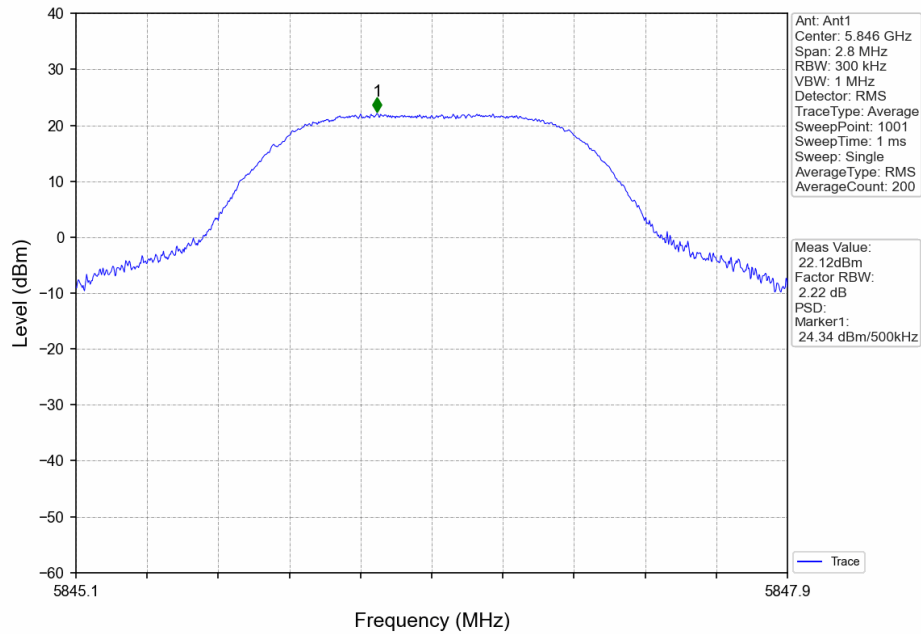
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			Ant1	Limit	
1.4	SISO	5728.5	24.70	<=30	Pass
		5788.5	24.40	<=30	Pass
		5846.5	24.34	<=30	Pass
1.4 CA	SISO	5730.12	24.81	<=30	Pass
		5790.12	24.01	<=30	Pass
		5848.12	23.12	<=30	Pass
3	SISO	5727.5	21.97	<=30	Pass
		5787.5	21.47	<=30	Pass
		5844.5	21.16	<=30	Pass
3 CA	SISO	5730.2	21.35	<=30	Pass
		5790.2	20.70	<=30	Pass
		5847.2	20.44	<=30	Pass
10	SISO	5730.5	4.77	<=30	Pass
		5787.5	4.11	<=30	Pass
		5844.5	3.97	<=30	Pass
20	SISO	5735.5	1.25	<=30	Pass
		5787.5	2.01	<=30	Pass
		5839.5	1.84	<=30	Pass
40	SISO	5745.5	-0.74	<=30	Pass
		5787.5	-0.88	<=30	Pass
		5829.5	-0.60	<=30	Pass

Note1: Antenna Gain: Ant1: 3.50dBi;

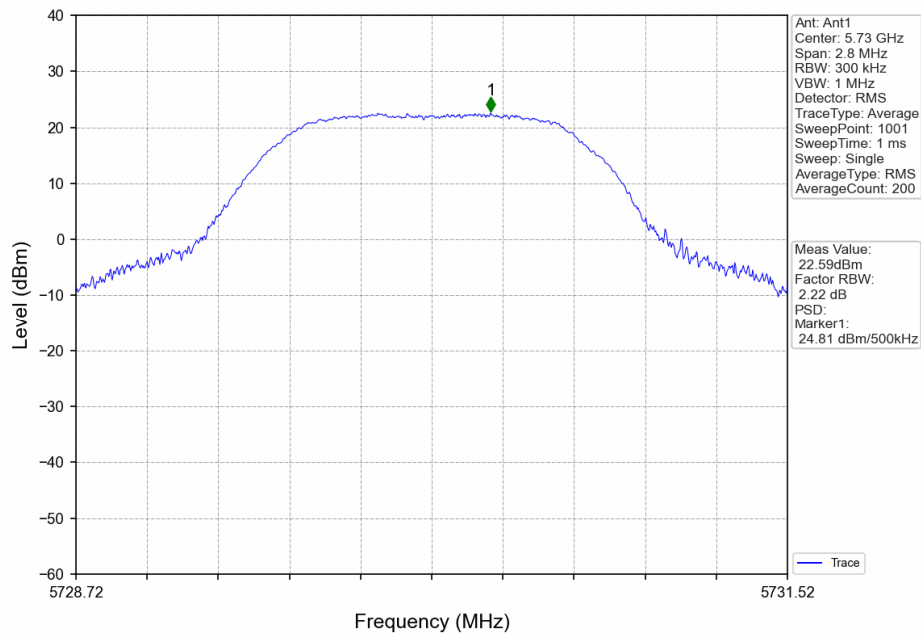
2.1.2 Test Graph



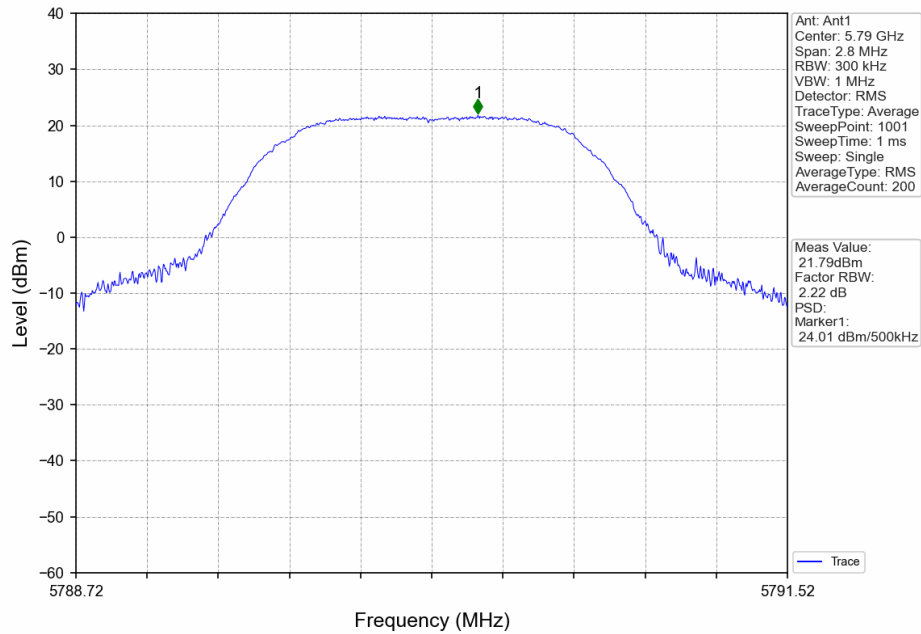
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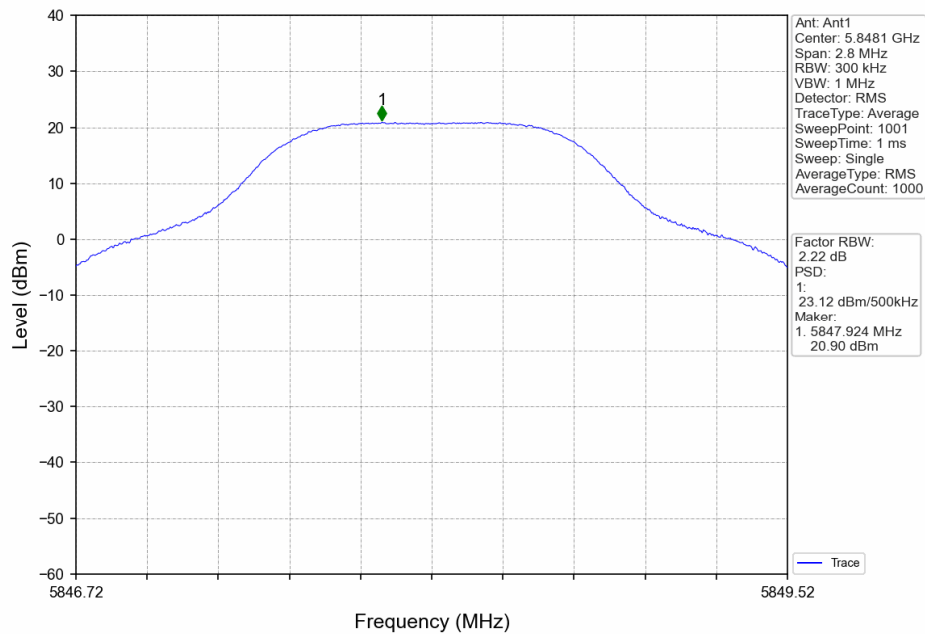
1.4_CA_LCH_5730.12MHz_Ant1_NTNV



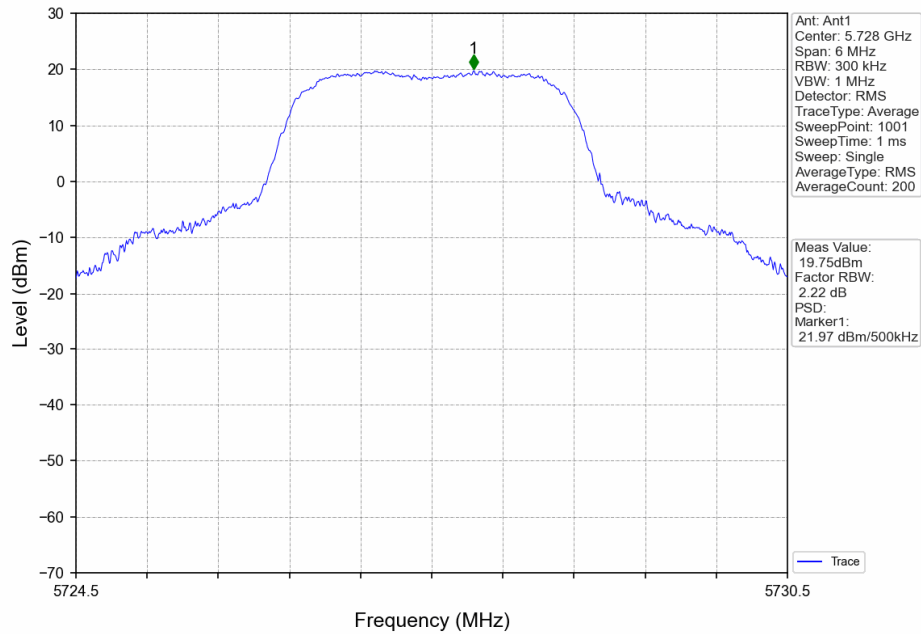
1.4 CA_MCH_5790.12MHz_Ant1_NTNV



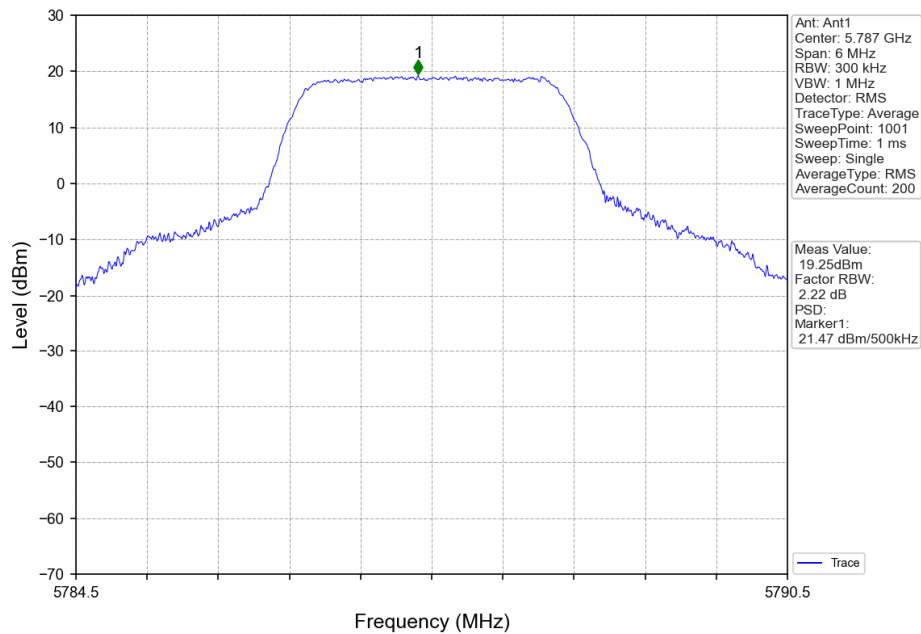
1.4 CA_HCH_5848.12MHz_Ant1_NTNV



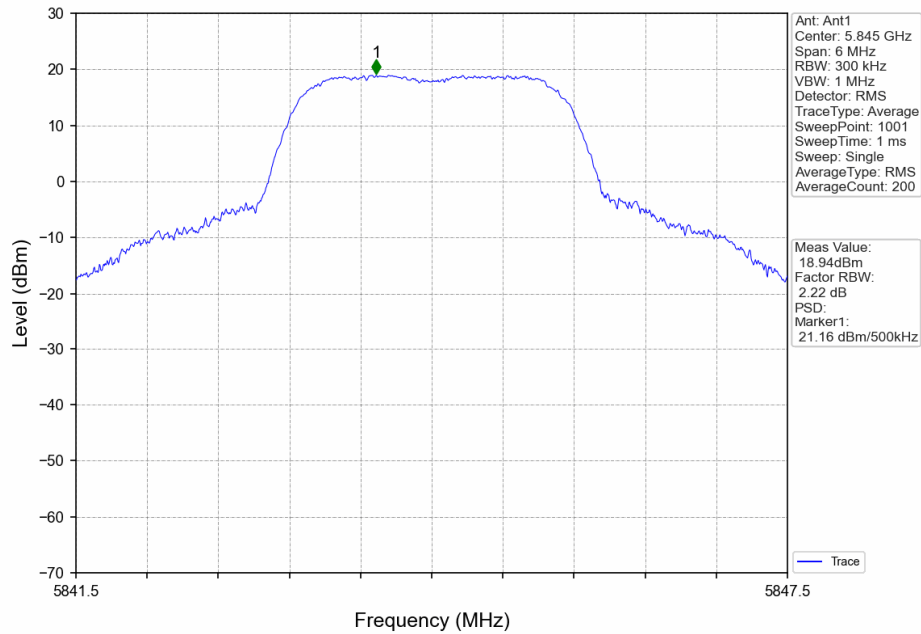
3_LCH_5727.5MHz_Ant1_NTNV



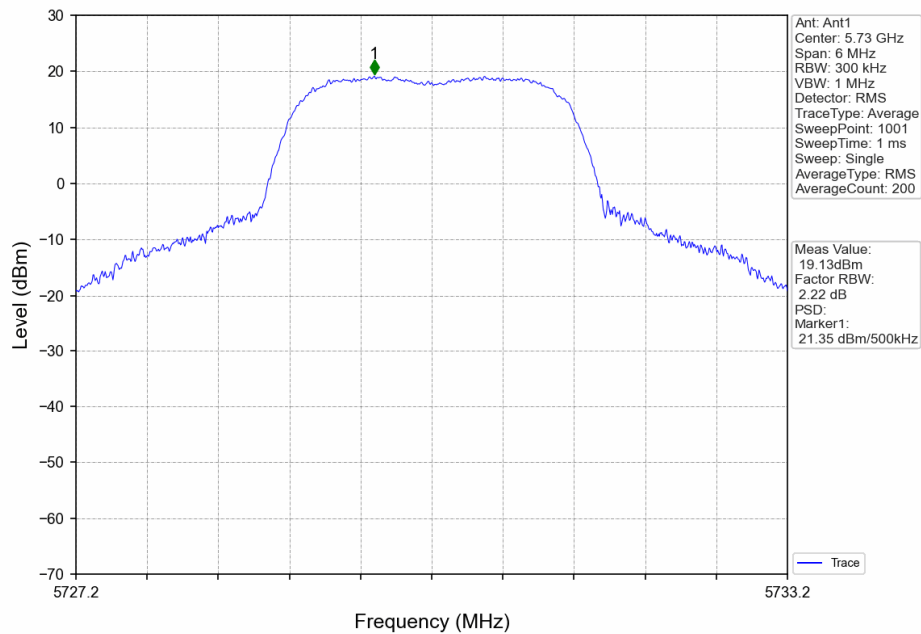
3_MCH_5787.5MHz_Ant1_NTNV



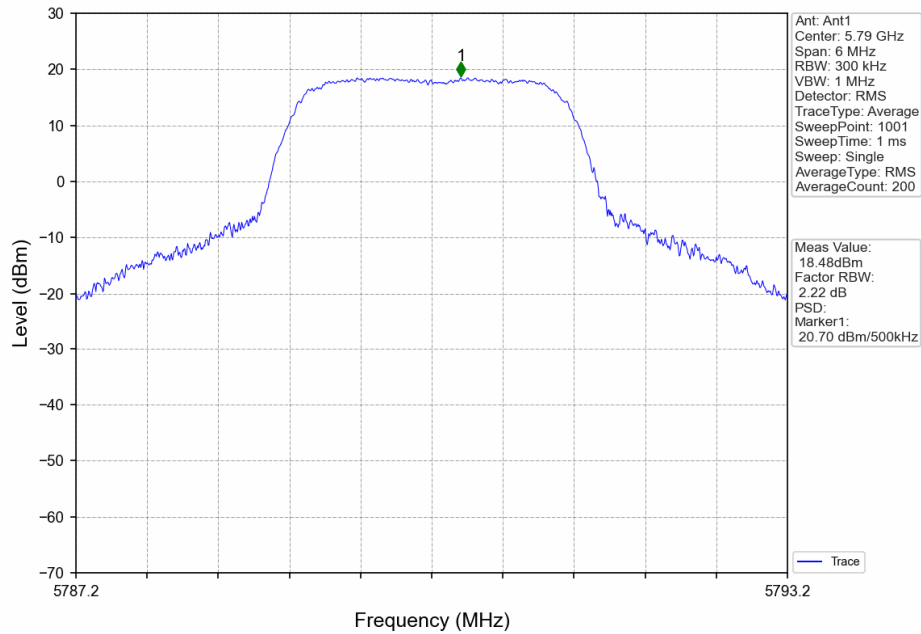
3_HCH_5844.5MHz_Ant1_NTNV



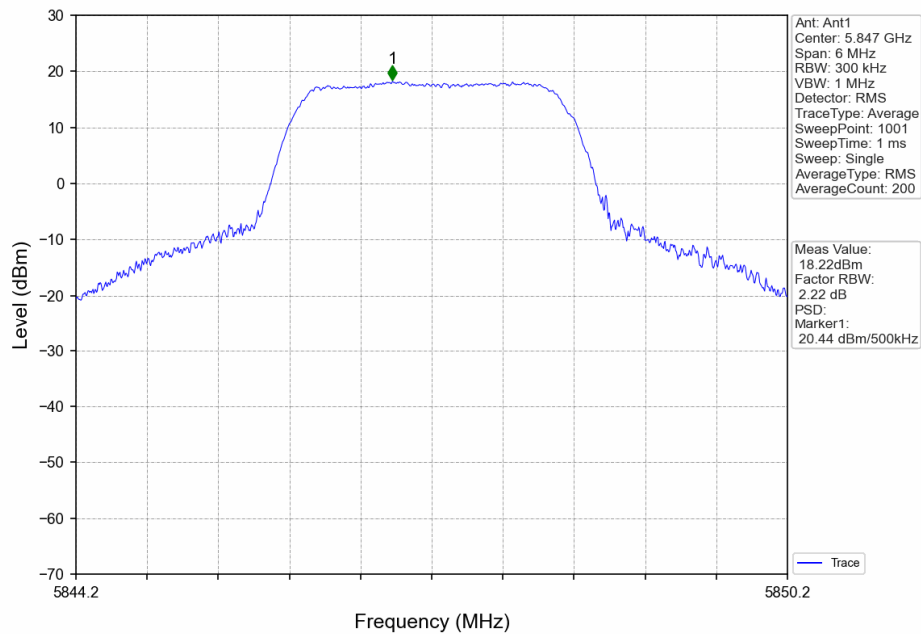
3_CA_LCH_5730.2MHz_Ant1_NTNV



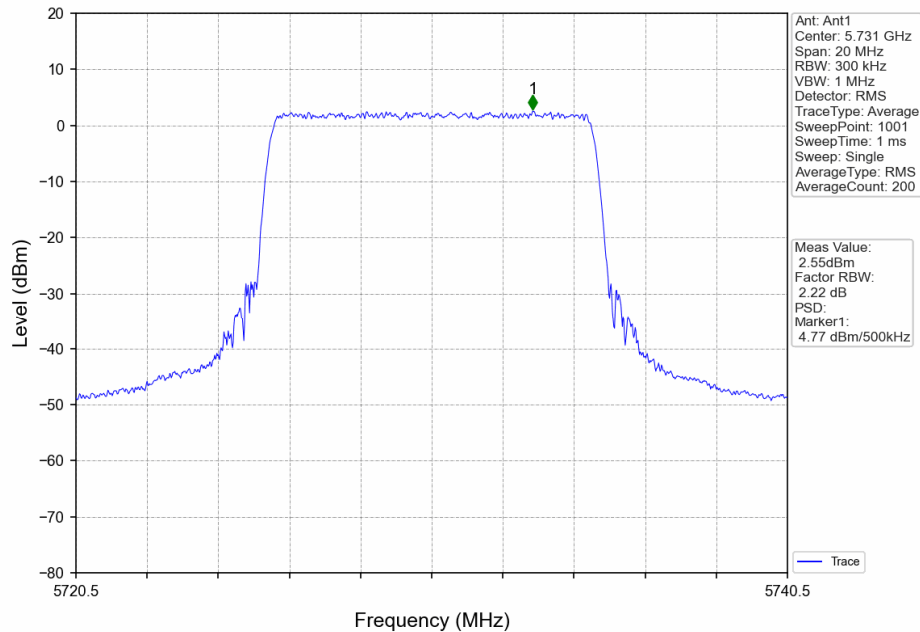
3 CA_MCH_5790.2MHz_Ant1_NTNV



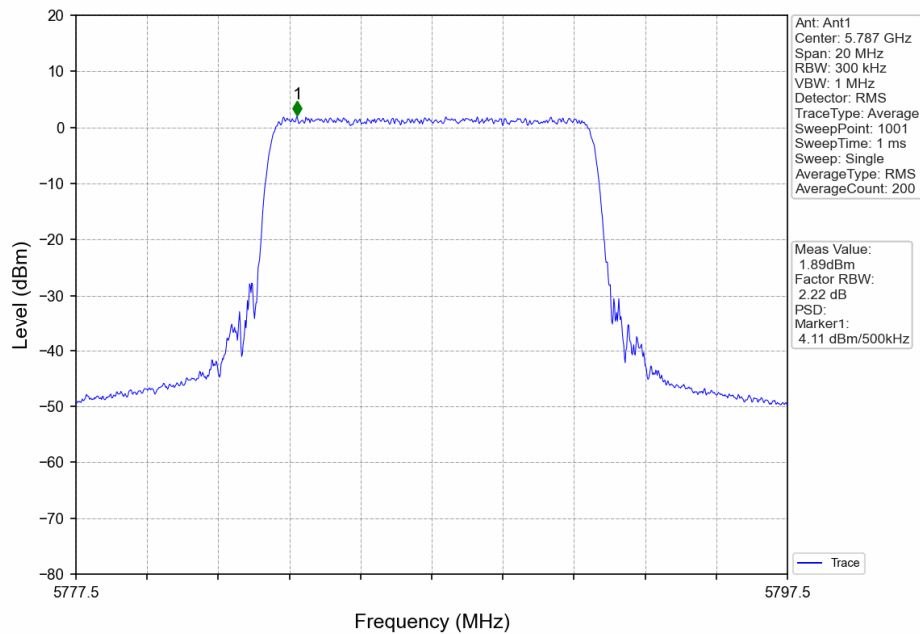
3 CA_HCH_5847.2MHz_Ant1_NTNV



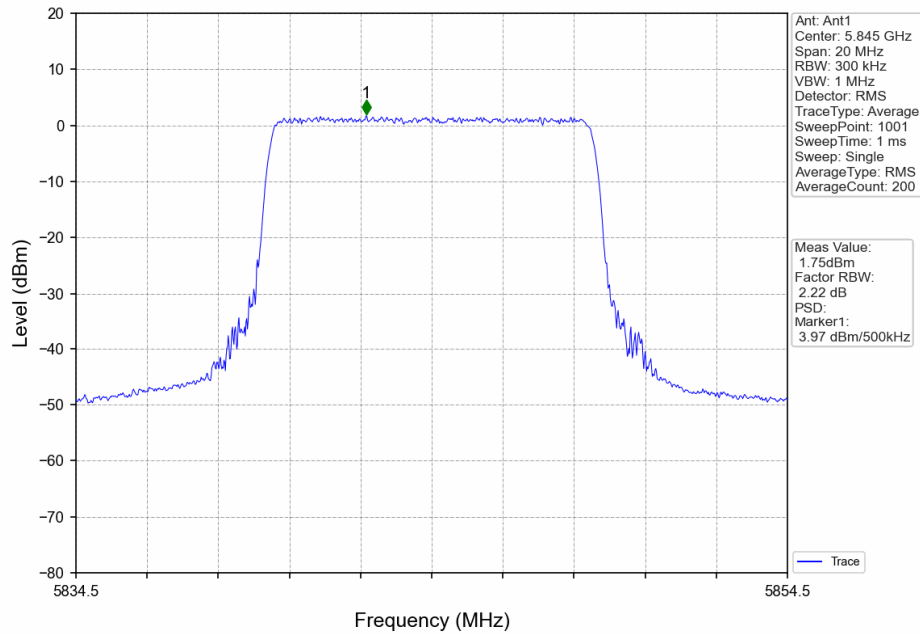
10_LCH_5730.5MHz_Ant1_NTNV



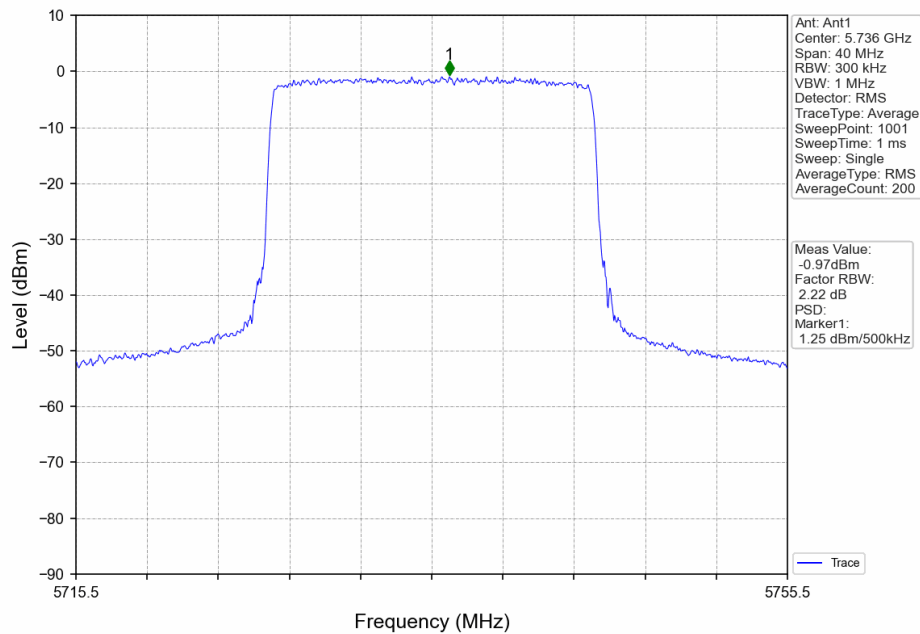
10_MCH_5787.5MHz_Ant1_NTNV



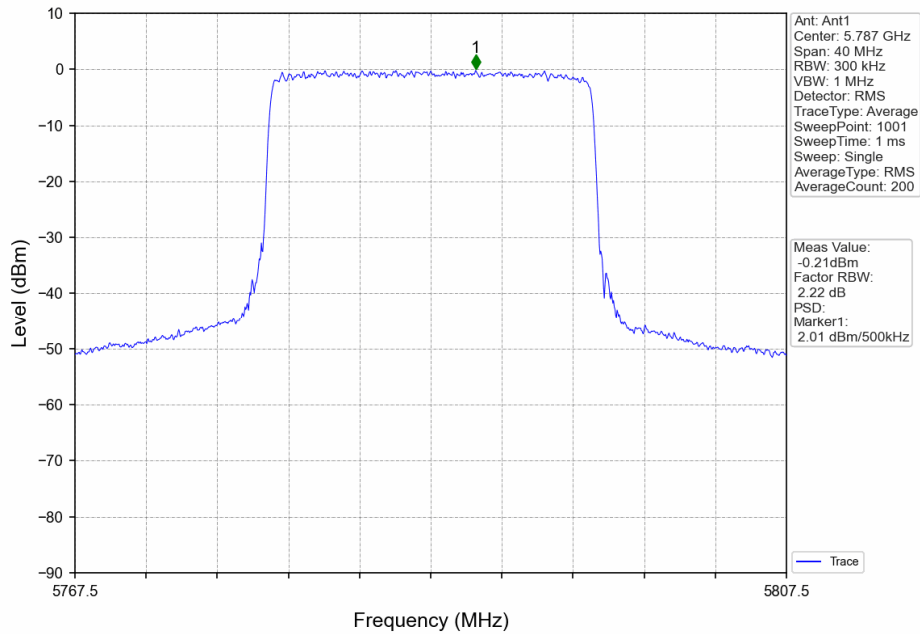
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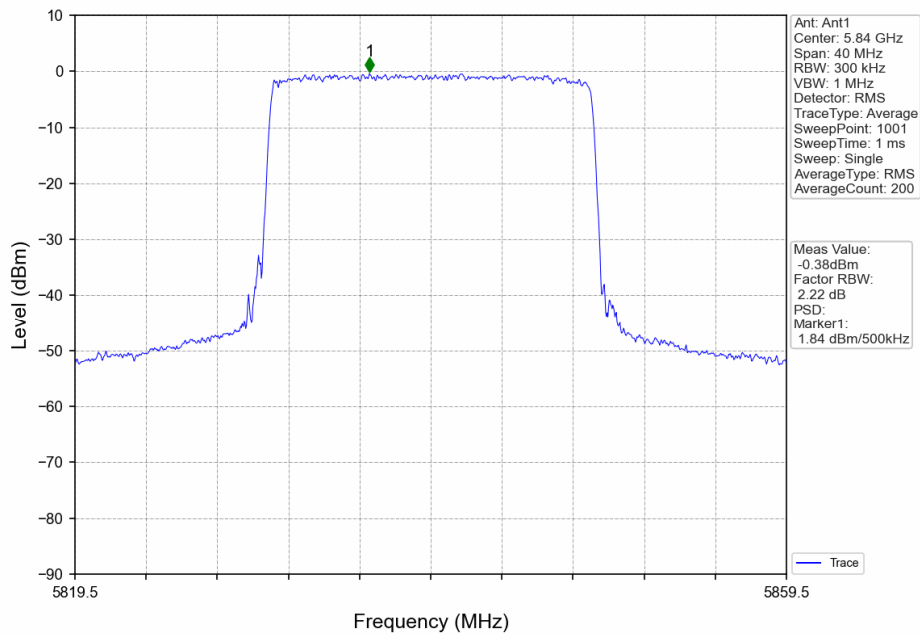
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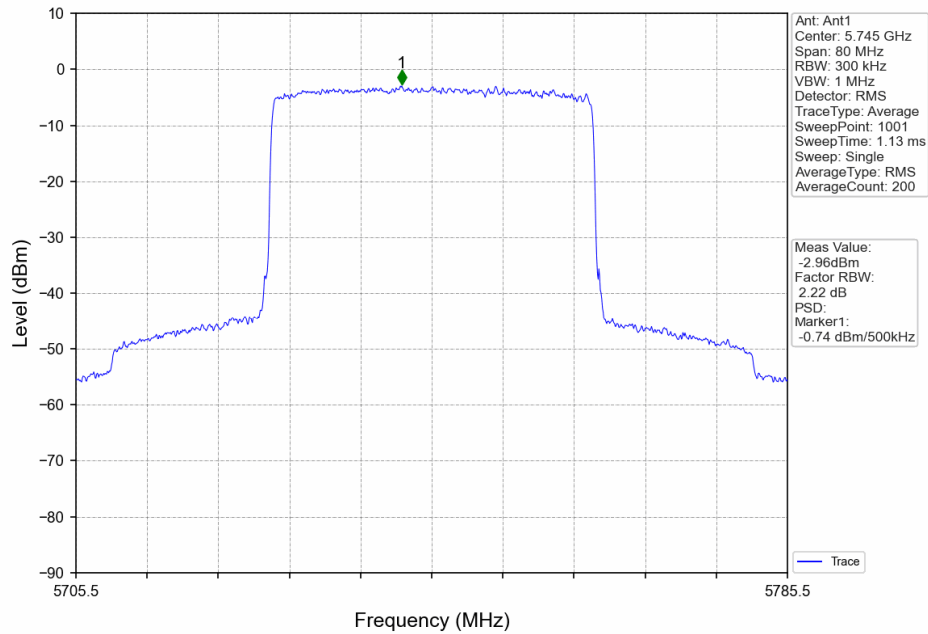
20_MCH_5787.5MHz_Ant1_NTNV



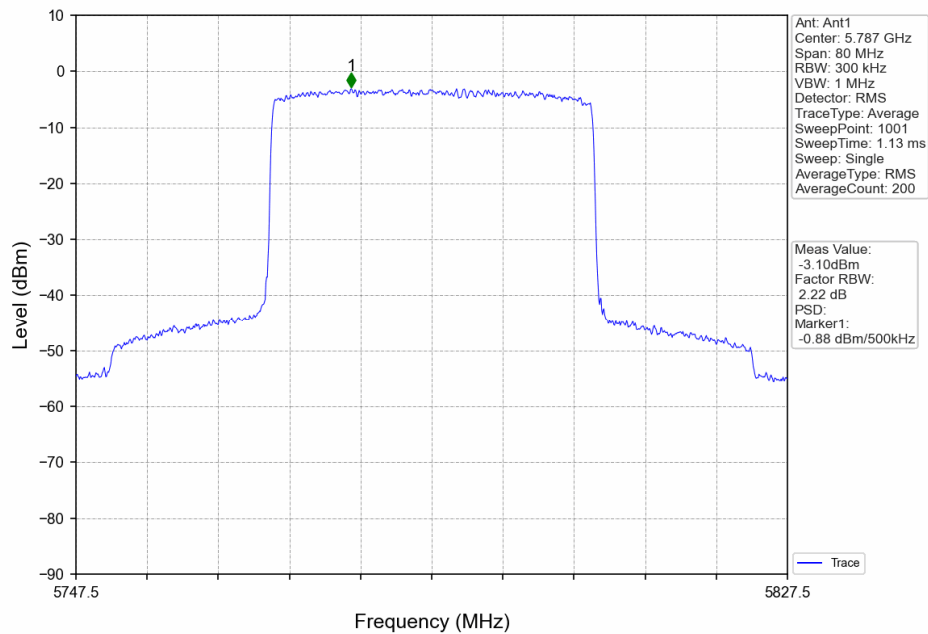
20_HCH_5839.5MHz_Ant1_NTNV



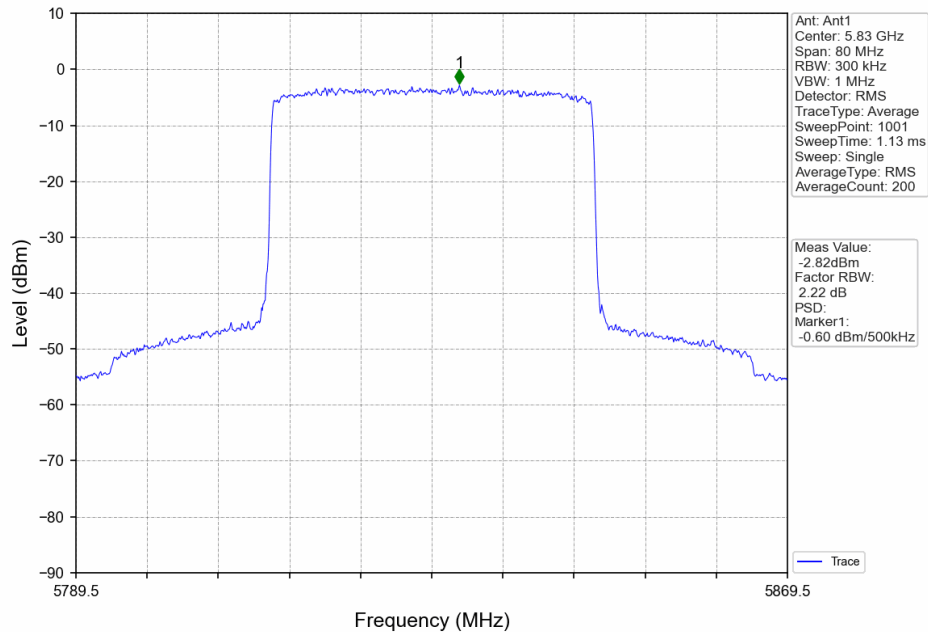
40_LCH_5745.5MHz_Ant1_NTNV



40_MCH_5787.5MHz_Ant1_NTNV



40_HCH_5829.5MHz_Ant1_NTNV



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SISO Mode, Antenna 2**1. Maximum Conducted Output Power****1.1 Power****1.1.1 Test Result**

Mode	TX Type	Frequency (MHz)	Measured Average Output Power (dBm)		Verdict
			Ant2	Limit	
1.4	SISO	5728.5	25.55	<=30	Pass
		5788.5	25.58	<=30	Pass
		5846.5	25.65	<=30	Pass
1.4 CA	SISO	5730.12	26.25	<=30	Pass
		5790.12	25.61	<=30	Pass
		5848.12	25.65	<=30	Pass
3	SISO	5727.5	25.92	<=30	Pass
		5787.5	26.49	<=30	Pass
		5844.5	26.00	<=30	Pass
3 CA	SISO	5730.2	25.95	<=30	Pass
		5790.2	26.44	<=30	Pass
		5847.2	26.04	<=30	Pass
10	SISO	5730.5	17.02	<=30	Pass
		5787.5	16.57	<=30	Pass
		5844.5	17.32	<=30	Pass
20	SISO	5735.5	16.94	<=30	Pass
		5787.5	16.51	<=30	Pass
		5839.5	17.34	<=30	Pass
40	SISO	5745.5	17.31	<=30	Pass
		5787.5	16.55	<=30	Pass
		5829.5	17.34	<=30	Pass

Note1: Antenna Gain: Ant1: 3.50dBi;

2. Maximum Power Spectral Density

2.1 PSD

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			Ant2	Limit	
1.4	SISO	5728.5	24.47	<=30	Pass
		5788.5	24.17	<=30	Pass
		5846.5	23.81	<=30	Pass
1.4 CA	SISO	5730.12	24.92	<=30	Pass
		5790.12	24.43	<=30	Pass
		5848.12	23.55	<=30	Pass
3	SISO	5727.5	21.01	<=30	Pass
		5787.5	21.14	<=30	Pass
		5844.5	20.85	<=30	Pass
3 CA	SISO	5730.2	20.65	<=30	Pass
		5790.2	21.34	<=30	Pass
		5847.2	20.74	<=30	Pass
10	SISO	5730.5	5.71	<=30	Pass
		5787.5	5.13	<=30	Pass
		5844.5	6.09	<=30	Pass
20	SISO	5735.5	2.54	<=30	Pass
		5787.5	2.10	<=30	Pass
		5839.5	3.05	<=30	Pass
40	SISO	5745.5	0.19	<=30	Pass
		5787.5	-0.37	<=30	Pass
		5829.5	0.06	<=30	Pass

Note1: Antenna Gain: Ant1: 3.50dBi;

2.1.2 Test Graph

