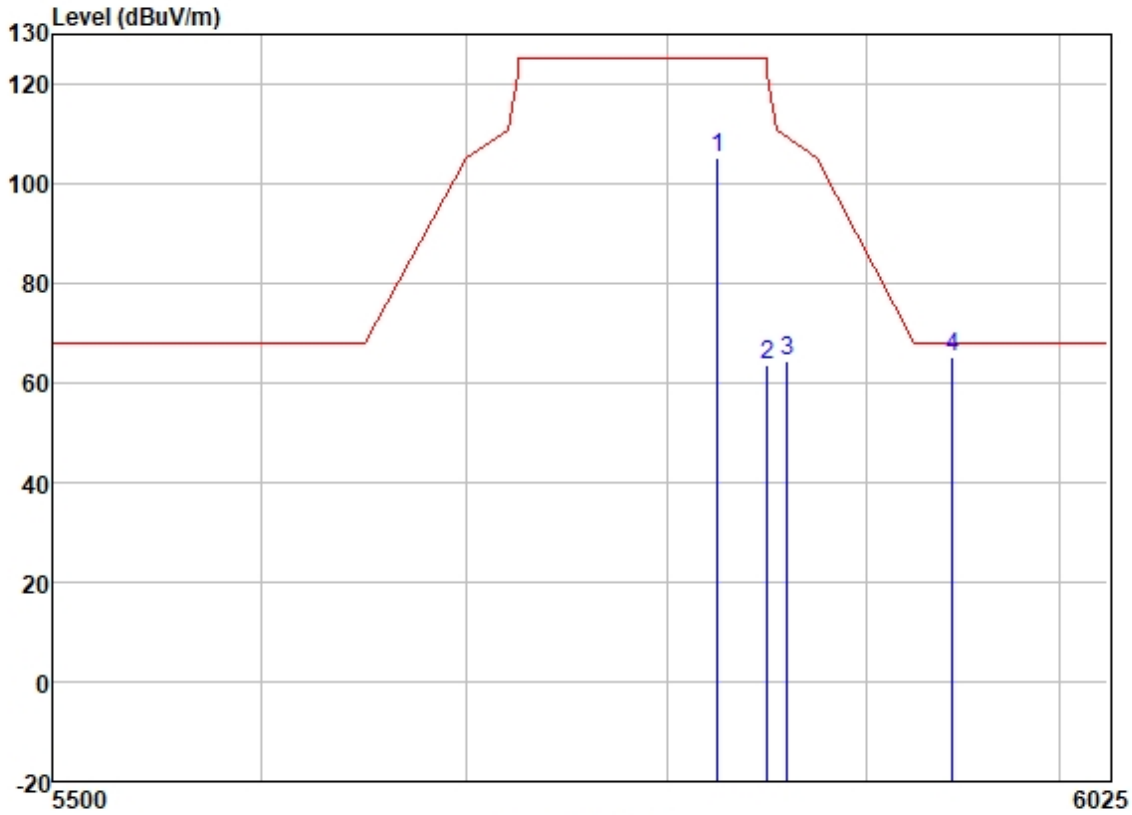
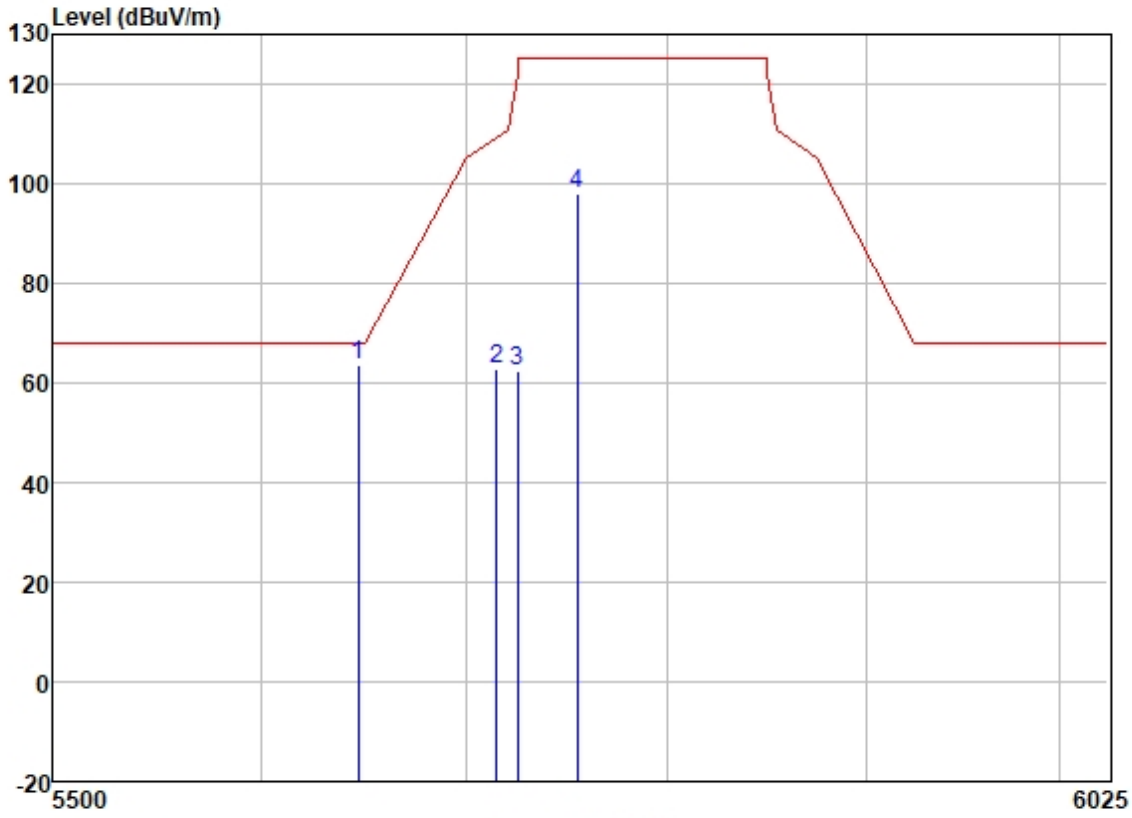
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	ReadLevel	Antenna 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	5825.000	103.95	32.23	6.04	36.90	105.32	125.20	-19.88	VERTICAL	Peak
2	5850.000	62.35	32.25	6.00	36.90	63.70	122.20	-58.50	VERTICAL	Peak
3	5860.000	62.98	32.27	5.96	36.90	64.31	109.40	-45.09	VERTICAL	Peak
4	5944.372	63.72	32.36	6.05	36.90	65.23	68.20	-2.97	VERTICAL	Peak

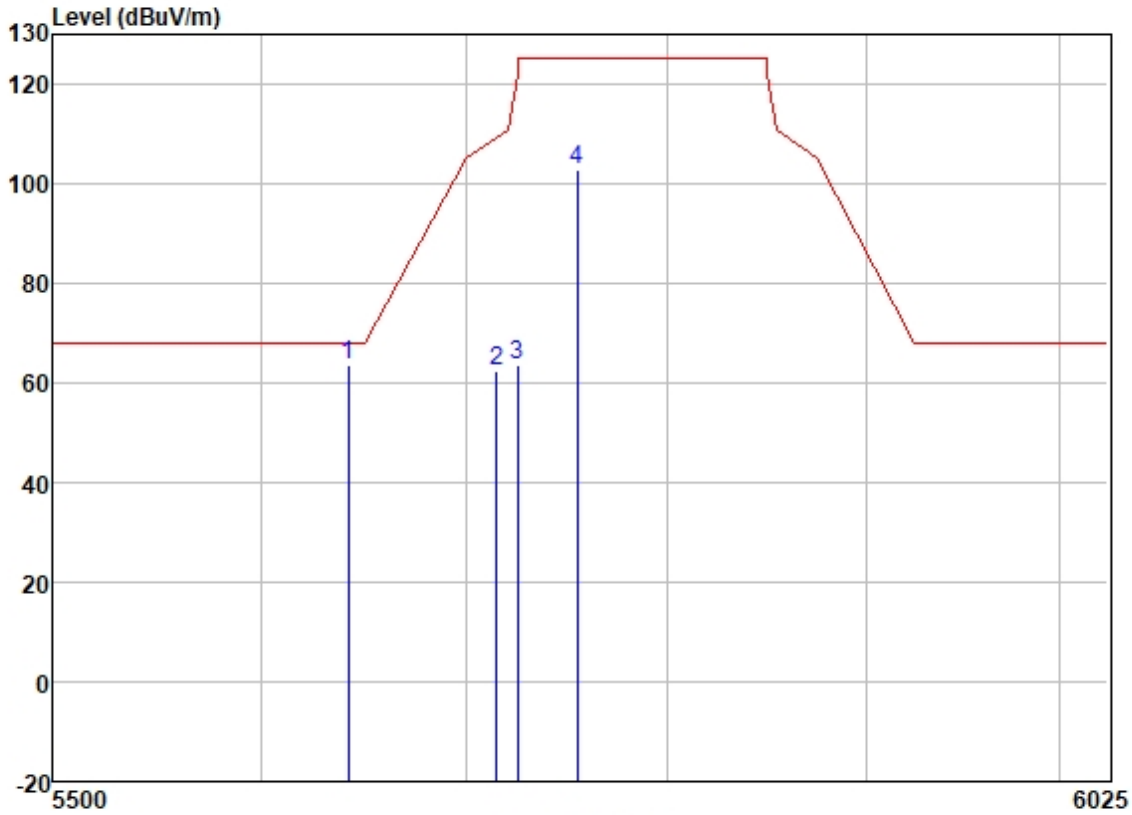
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	ReadLevel	Antenna 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	5646.732	62.29	31.95	6.35	36.89	63.70	68.20	-4.50	HORIZONTAL	Peak
2	5715.000	61.18	32.04	6.33	36.89	62.66	109.40	-46.74	HORIZONTAL	Peak
3	5725.000	61.12	32.07	6.25	36.89	62.55	122.20	-59.65	HORIZONTAL	Peak
4	5755.000	96.66	32.10	6.20	36.89	98.07	125.20	-27.13	HORIZONTAL	Peak

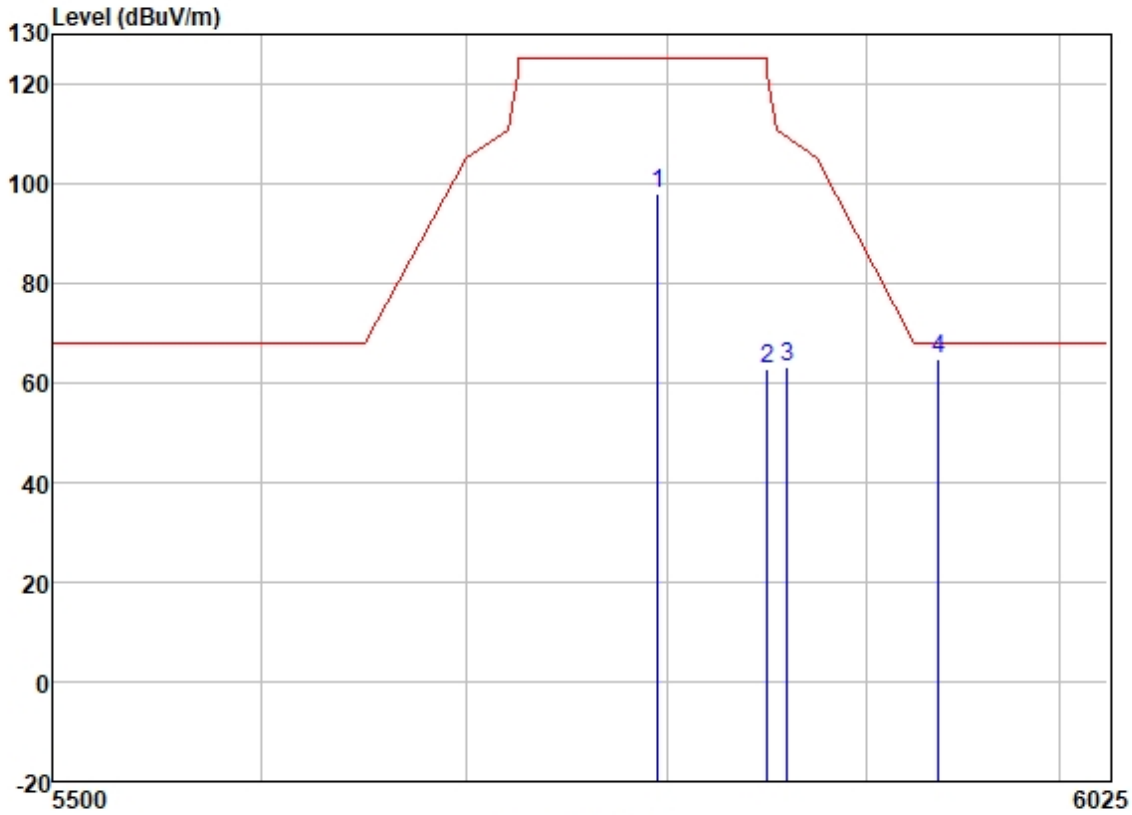
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	ReadLevel	Antenna 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	5641.835	62.33	31.95	6.35	36.89	63.74	68.20	-4.46	VERTICAL	Peak
2	5715.000	61.05	32.04	6.33	36.89	62.53	109.40	-46.87	VERTICAL	Peak
3	5725.000	62.10	32.07	6.25	36.89	63.53	122.20	-58.67	VERTICAL	Peak
4	5755.000	101.58	32.10	6.20	36.89	102.99	125.20	-22.21	VERTICAL	Peak

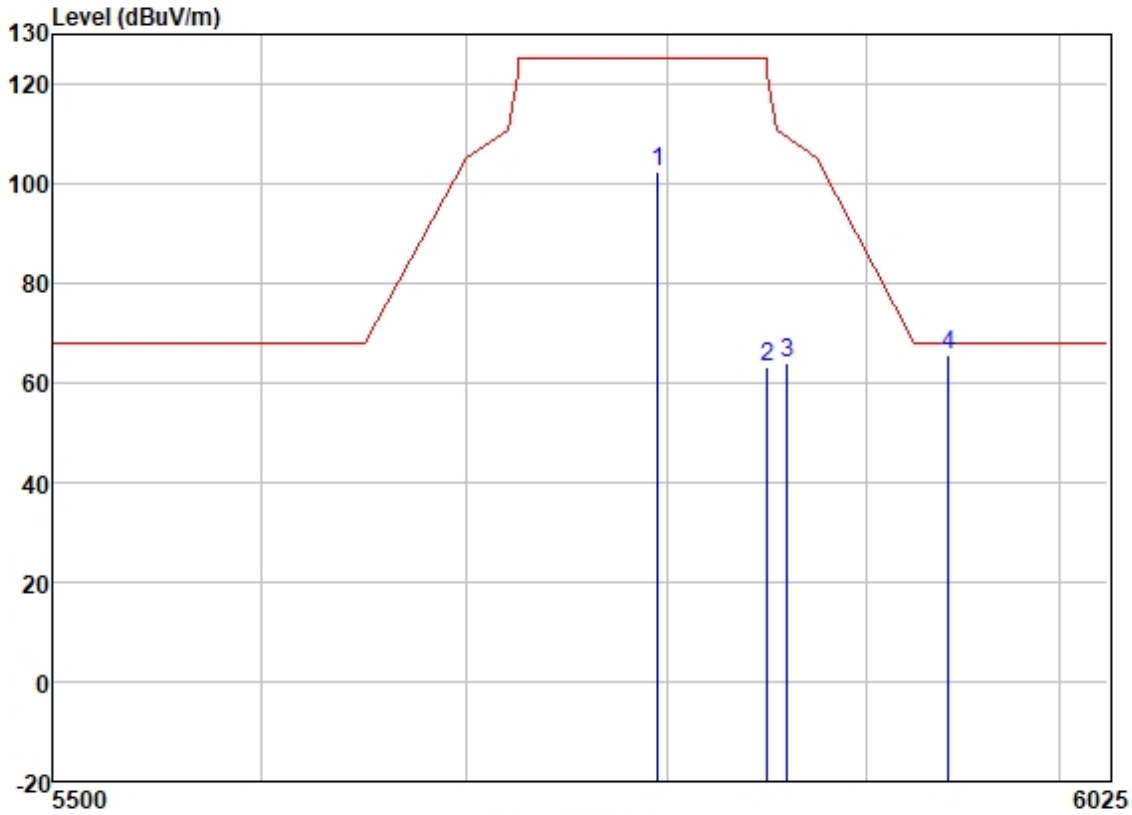
Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna 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	5795.000	96.63	32.19	6.10	36.89	98.03	125.20	-27.17	HORIZONTAL	Peak
2	5850.000	61.44	32.25	6.00	36.90	62.79	122.20	-59.41	HORIZONTAL	Peak
3	5860.000	61.98	32.27	5.96	36.90	63.31	109.40	-46.09	HORIZONTAL	Peak
4	5937.071	63.55	32.34	6.00	36.90	64.99	68.20	-3.21	HORIZONTAL	Peak

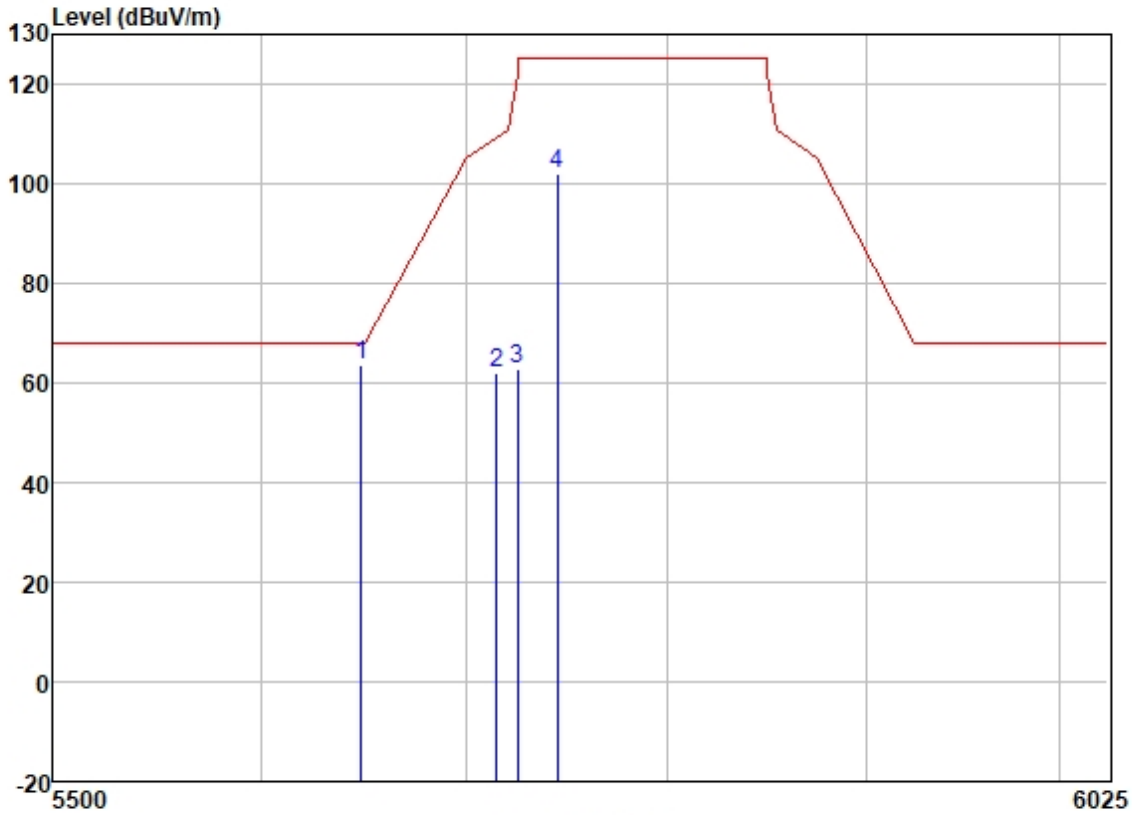
Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna 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	5795.000	101.16	32.19	6.10	36.89	102.56	125.20	-22.64	VERTICAL	Peak
2	5850.000	61.71	32.25	6.00	36.90	63.06	122.20	-59.14	VERTICAL	Peak
3	5860.000	62.84	32.27	5.96	36.90	64.17	109.40	-45.23	VERTICAL	Peak
4	5942.559	63.91	32.36	6.05	36.90	65.42	68.20	-2.78	VERTICAL	Peak

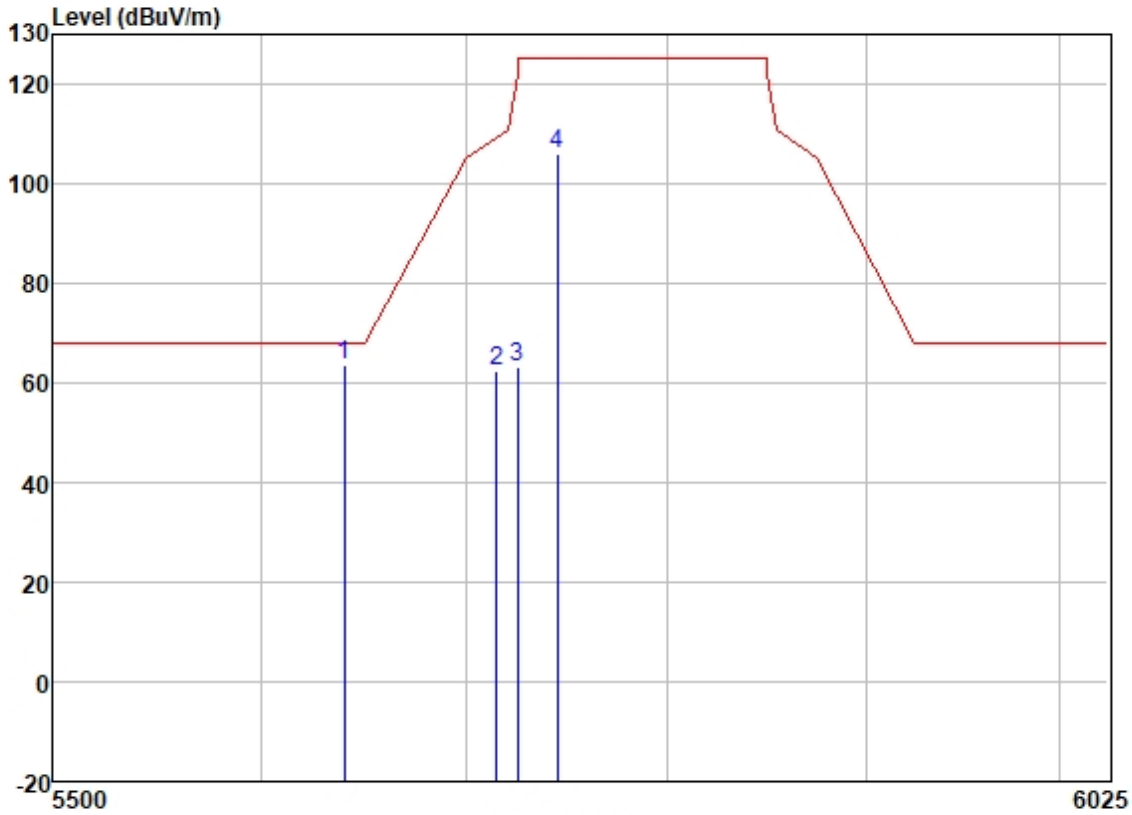
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna 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	5648.165	62.19	31.95	6.35	36.89	63.60	68.20	-4.60	HORIZONTAL	Peak
2	5715.000	60.67	32.04	6.33	36.89	62.15	109.40	-47.25	HORIZONTAL	Peak
3	5725.000	61.19	32.07	6.25	36.89	62.62	122.20	-59.58	HORIZONTAL	Peak
4	5745.000	100.46	32.10	6.20	36.89	101.87	125.20	-23.33	HORIZONTAL	Peak

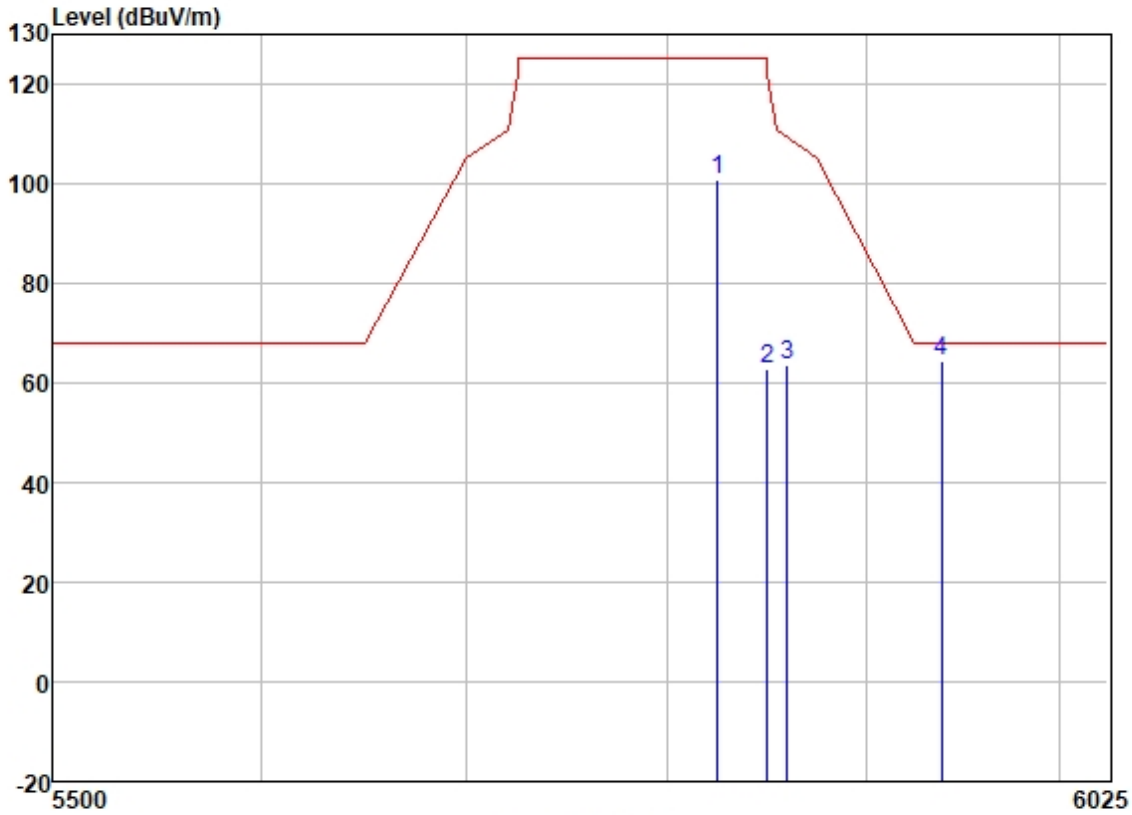
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna 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	5640.138	62.23	31.95	6.35	36.89	63.64	68.20	-4.56	VERTICAL	Peak
2	5715.000	60.90	32.04	6.33	36.89	62.38	109.40	-47.02	VERTICAL	Peak
3	5725.000	61.75	32.07	6.25	36.89	63.18	122.20	-59.02	VERTICAL	Peak
4	5745.000	104.54	32.10	6.20	36.89	105.95	125.20	-19.25	VERTICAL	Peak

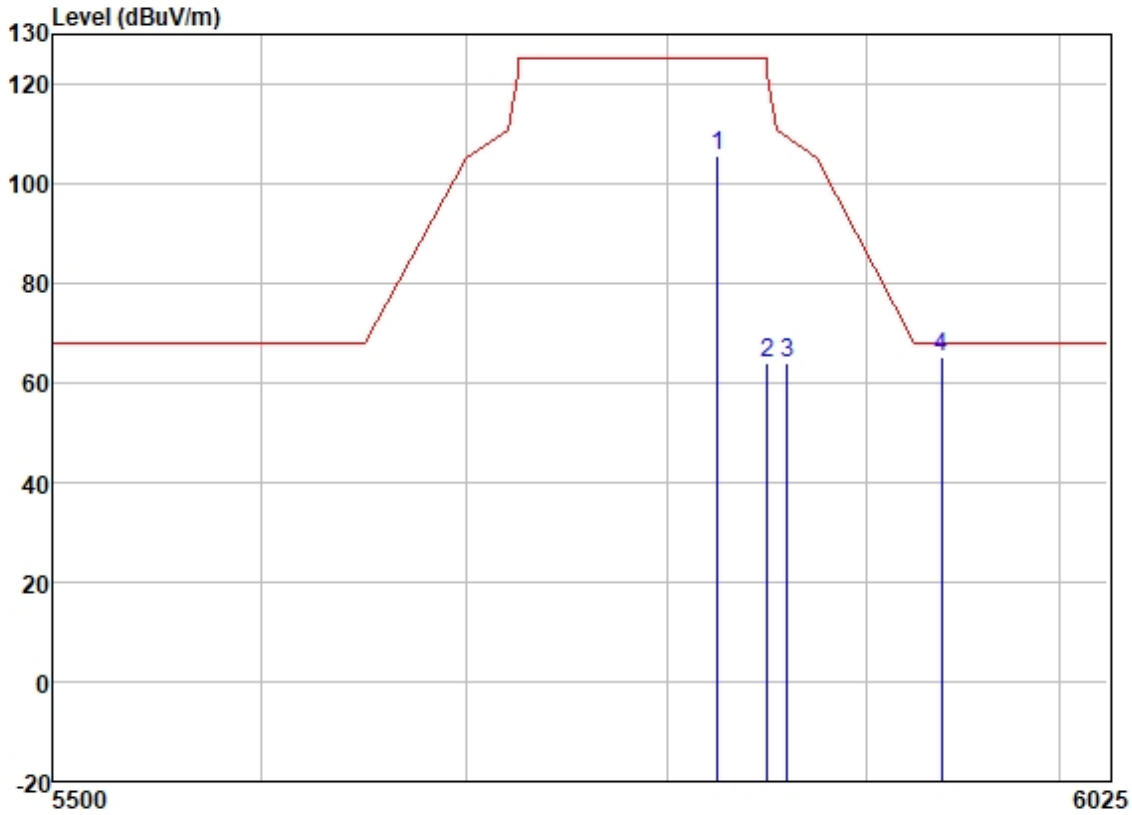
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	ReadLevel	Antenna 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	5825.000	99.39	32.23	6.04	36.90	100.76	125.20	-24.44	HORIZONTAL	Peak
2	5850.000	61.34	32.25	6.00	36.90	62.69	122.20	-59.51	HORIZONTAL	Peak
3	5860.000	62.12	32.27	5.96	36.90	63.45	109.40	-45.95	HORIZONTAL	Peak
4	5938.721	63.11	32.34	6.00	36.90	64.55	68.20	-3.65	HORIZONTAL	Peak

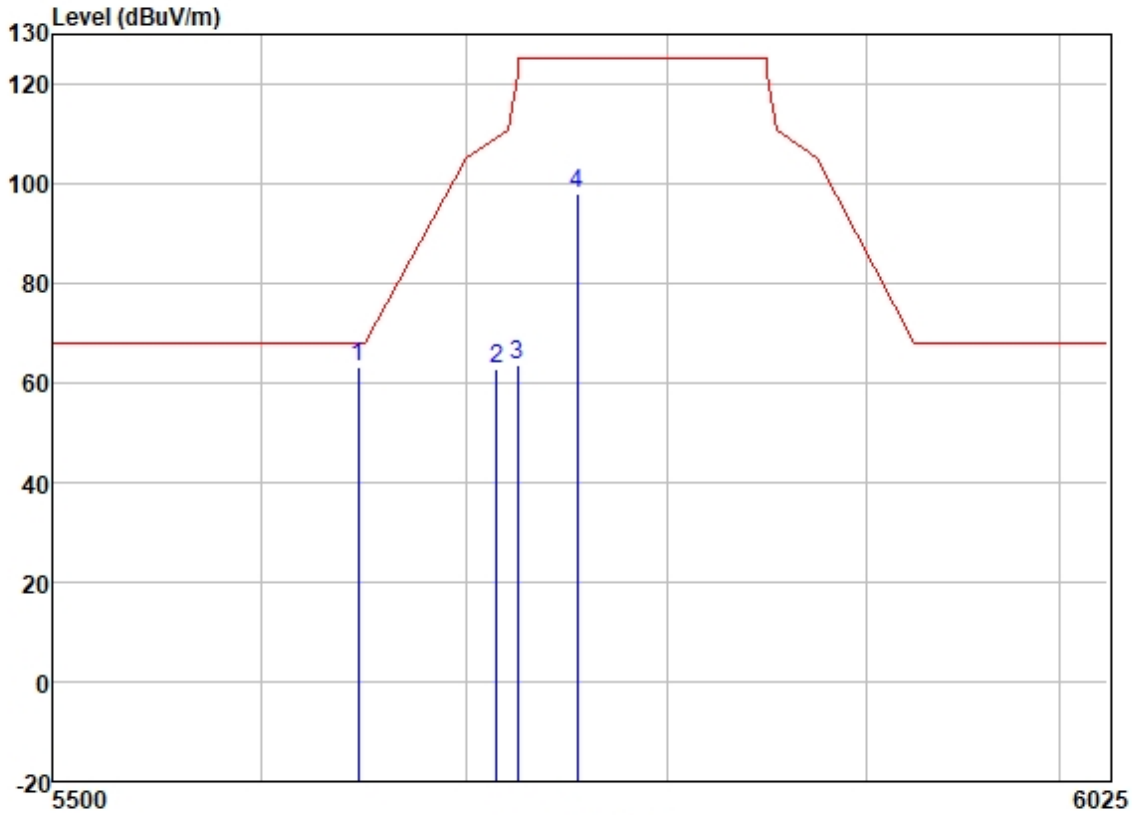
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna 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	5825.000	104.13	32.23	6.04	36.90	105.50	125.20	-19.70	VERTICAL	Peak
2	5850.000	62.49	32.25	6.00	36.90	63.84	122.20	-58.36	VERTICAL	Peak
3	5860.000	62.66	32.27	5.96	36.90	63.99	109.40	-45.41	VERTICAL	Peak
4	5939.035	63.84	32.34	6.00	36.90	65.28	68.20	-2.92	VERTICAL	Peak

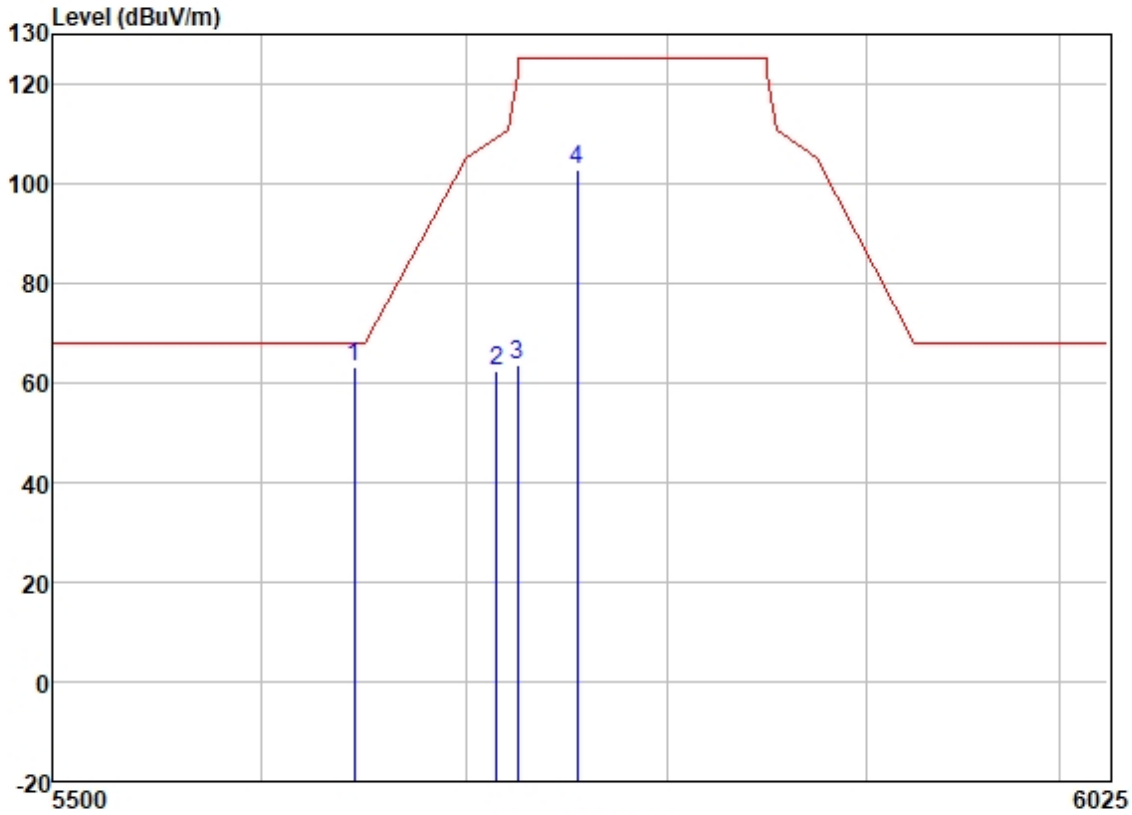
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	ReadLevel	Antenna 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	5646.732	61.96	31.95	6.35	36.89	63.37	68.20	-4.83	HORIZONTAL	Peak
2	5715.000	61.23	32.04	6.33	36.89	62.71	109.40	-46.69	HORIZONTAL	Peak
3	5725.000	62.05	32.07	6.25	36.89	63.48	122.20	-58.72	HORIZONTAL	Peak
4	5755.000	96.63	32.10	6.20	36.89	98.04	125.20	-27.16	HORIZONTAL	Peak

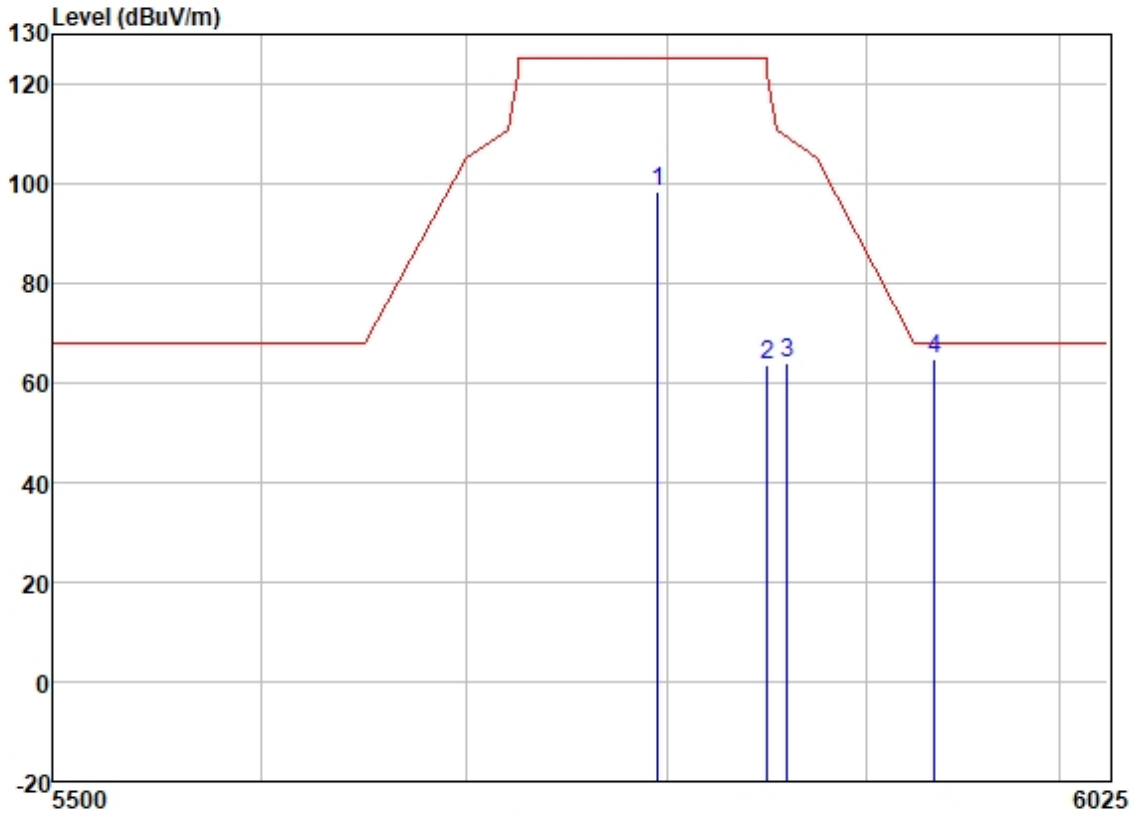
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna 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	5645.201	61.98	31.95	6.35	36.89	63.39	68.20	-4.81	VERTICAL	Peak
2	5715.000	60.89	32.04	6.33	36.89	62.37	109.40	-47.03	VERTICAL	Peak
3	5725.000	62.16	32.07	6.25	36.89	63.59	122.20	-58.61	VERTICAL	Peak
4	5755.000	101.47	32.10	6.20	36.89	102.88	125.20	-22.32	VERTICAL	Peak

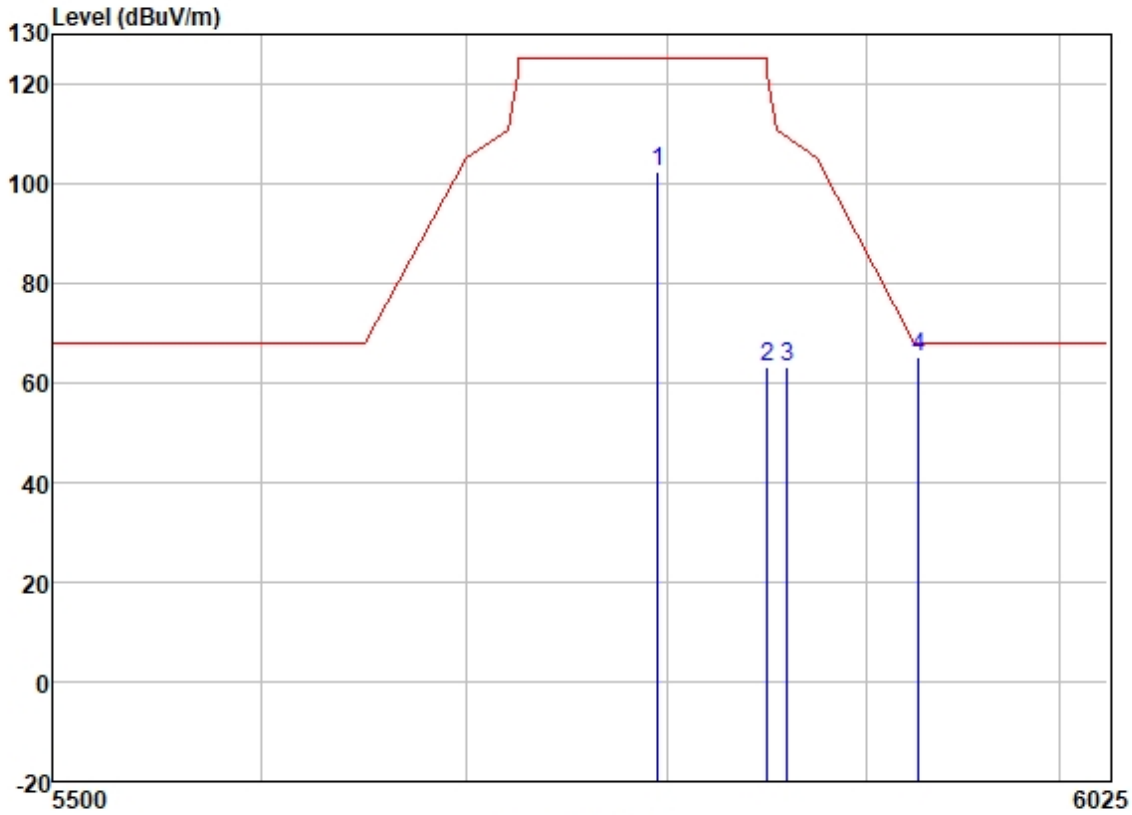
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna 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	5795.000	97.16	32.19	6.10	36.89	98.56	125.20	-26.64	HORIZONTAL	Peak
2	5850.000	62.44	32.25	6.00	36.90	63.79	122.20	-58.41	HORIZONTAL	Peak
3	5860.000	62.62	32.27	5.96	36.90	63.95	109.40	-45.45	HORIZONTAL	Peak
4	5935.040	63.25	32.34	6.00	36.90	64.69	68.20	-3.51	HORIZONTAL	Peak

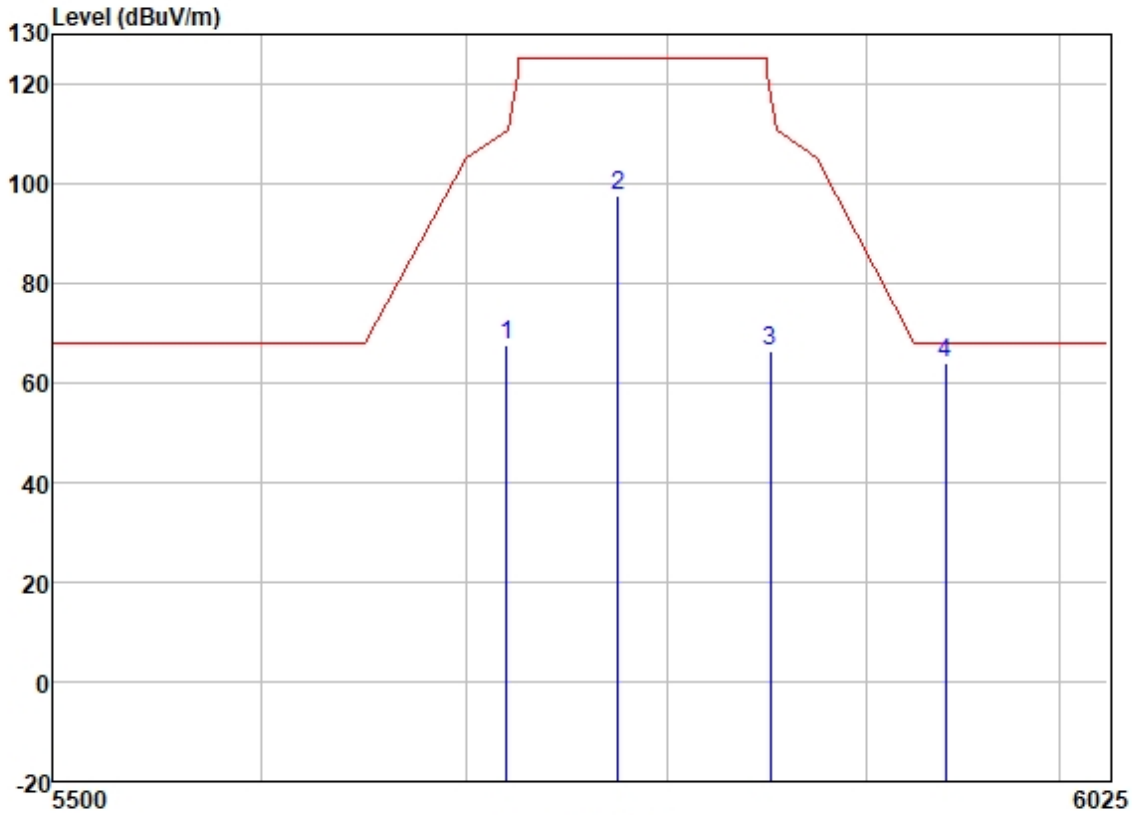
Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna 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	5795.000	100.99	32.19	6.10	36.89	102.39	125.20	-22.81	VERTICAL	Peak
2	5850.000	62.03	32.25	6.00	36.90	63.38	122.20	-58.82	VERTICAL	Peak
3	5860.000	61.77	32.27	5.96	36.90	63.10	109.40	-46.30	VERTICAL	Peak
4	5927.327	63.72	32.34	6.00	36.90	65.16	68.20	-3.04	VERTICAL	Peak

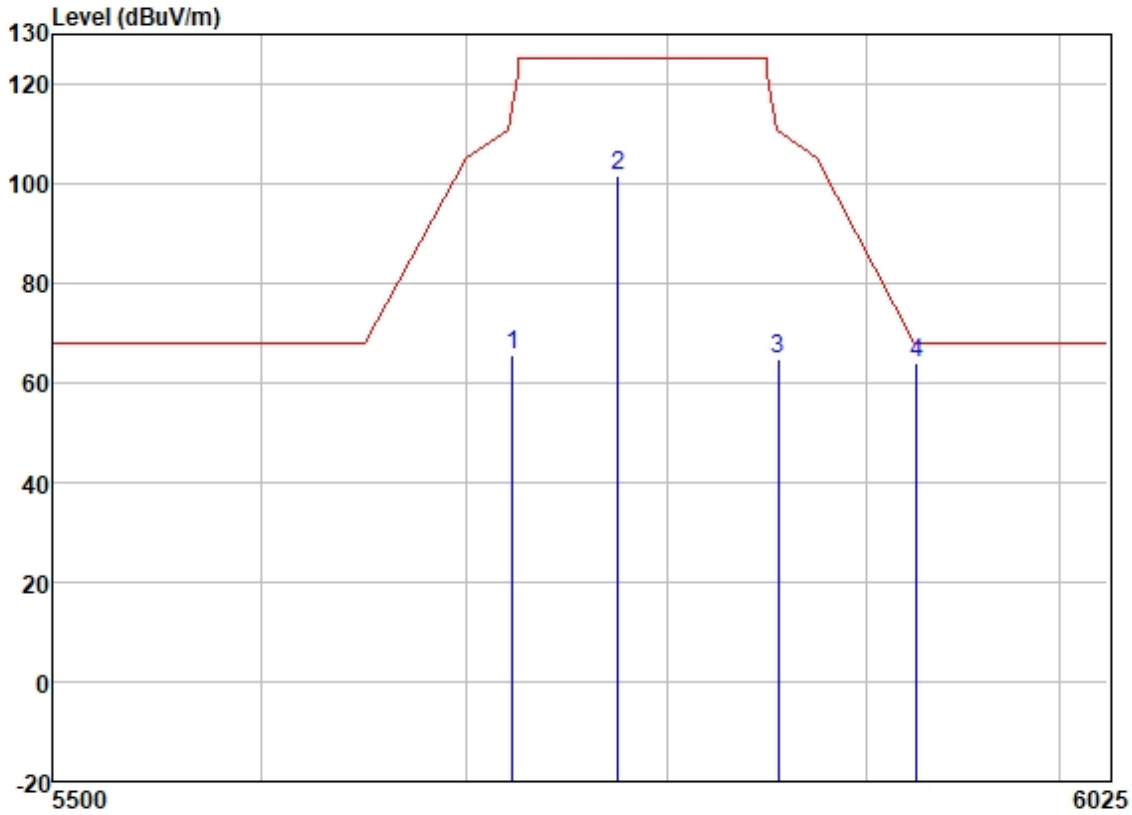
Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



race: (Discrete)

	Freq	ReadLevel	Antenna 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	5719.568	65.97	32.04	6.33	36.89	67.45	110.68	-43.23	HORIZONTAL	Peak
2	5775.000	96.41	32.16	6.10	36.89	97.78	125.20	-27.42	HORIZONTAL	Peak
3	5851.808	65.18	32.25	6.00	36.90	66.53	118.08	-51.55	HORIZONTAL	Peak
4	5940.931	62.40	32.34	6.00	36.90	63.84	68.20	-4.36	HORIZONTAL	Peak

Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna 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	5722.582	64.01	32.07	6.25	36.89	65.44	116.69	-51.25	VERTICAL	Peak
2	5775.000	100.16	32.16	6.10	36.89	101.53	125.20	-23.67	VERTICAL	Peak
3	5855.815	63.26	32.25	6.00	36.90	64.61	110.57	-45.96	VERTICAL	Peak
4	5925.932	62.67	32.34	6.00	36.90	64.11	68.20	-4.09	VERTICAL	Peak

7.8 Radiated Emissions (below 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.

7.8.1 E.U.T. Operation

Operating Environment:

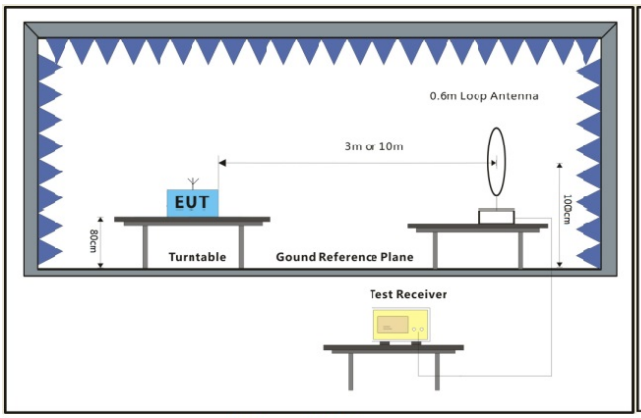
Temperature: 20.1 °C Humidity: 45.1 % RH Atmospheric Pressure: 1015 mbar

7.8.2 Test Mode Description

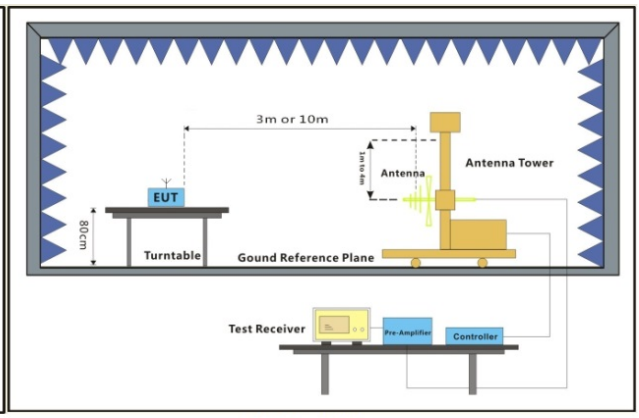
Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst 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.
Pre-scan	02	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.
Pre-scan	03	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.
Pre-scan	04	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.

7.8.3 Test Setup Diagram



Below 30MHz



30MHz-1GHz

7.8.4 Measurement Procedure and Data

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b.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.

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 (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.

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:

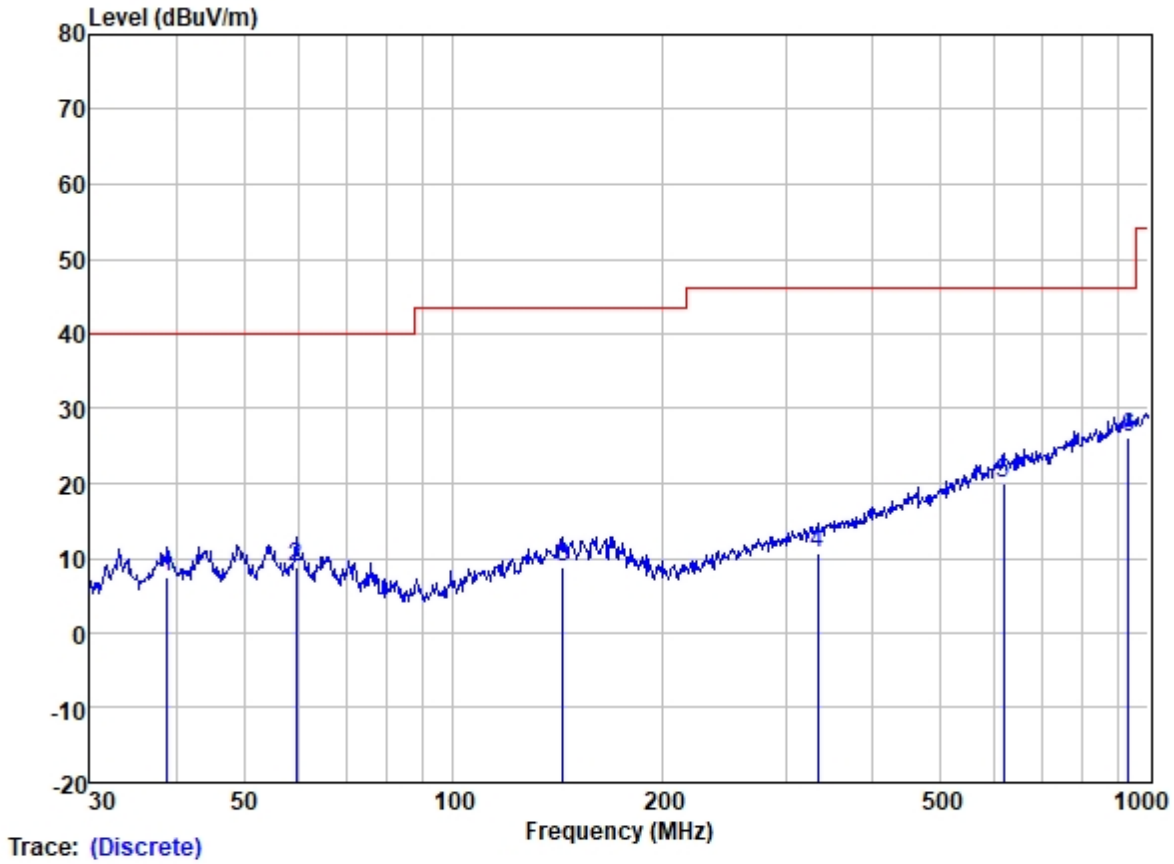
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.

3. Scan from 9kHz to 1GHz, the disturbance below 30MHz 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.

Test data for WF2-5G1

Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

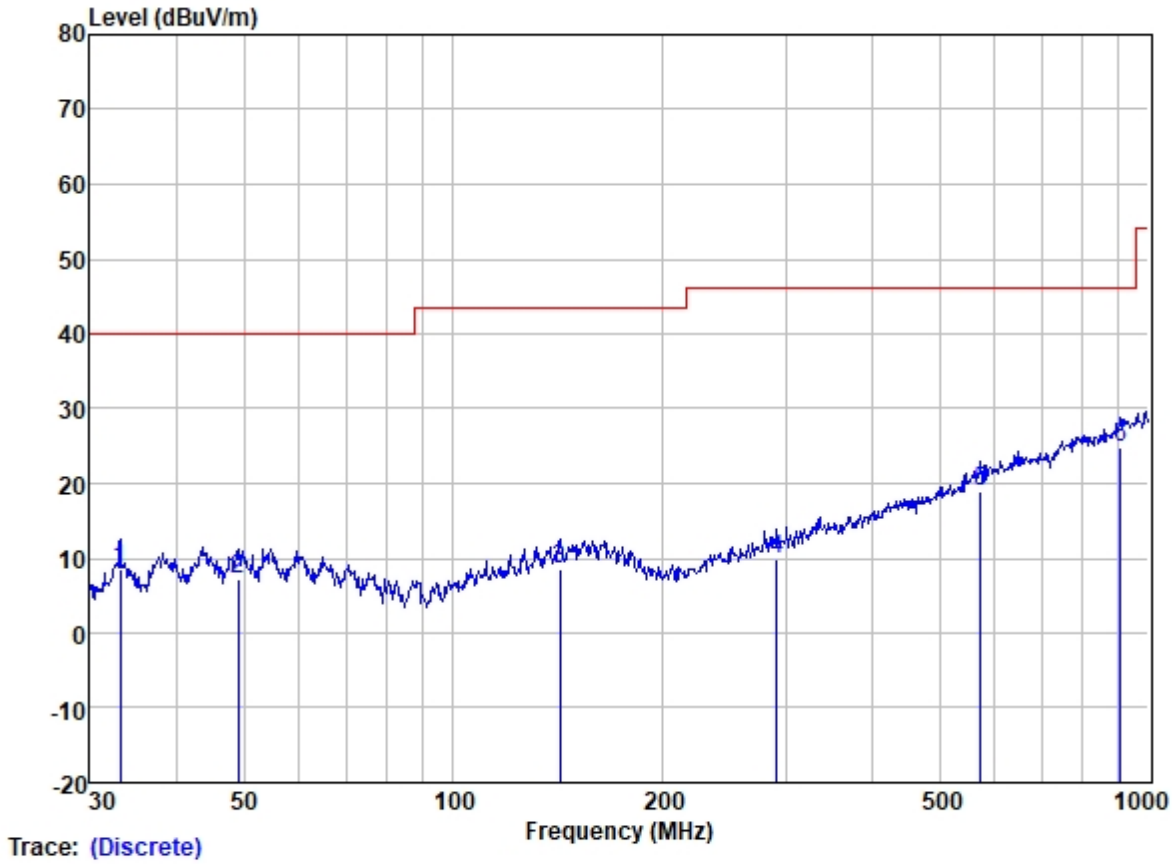


Trace: (Discrete)

Site : SGS
Job :
Model :
Power :
Test Mode : 01

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	38.752	26.39	12.93	1.09	32.96	7.45	40.00	-32.55	HORIZONTAL	QP
2	59.441	27.48	12.95	1.25	33.00	8.68	40.00	-31.32	HORIZONTAL	QP
3	143.830	26.67	13.10	2.15	33.00	8.92	43.50	-34.58	HORIZONTAL	QP
4	333.687	26.28	14.18	3.46	33.13	10.79	46.00	-35.21	HORIZONTAL	QP
5	618.537	28.06	20.10	5.28	33.38	20.06	46.00	-25.94	HORIZONTAL	QP
6	935.546	27.31	23.62	7.06	31.90	26.09	46.00	-19.91	HORIZONTAL	QP

Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : SGS
Job :
Model :
Power :
Test Mode : 01

	Freq	Read Level	Anterna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	33.211	28.17	12.18	1.05	32.94	8.46	40.00	-31.54	VERTICAL	QP
2	49.014	25.55	13.60	1.14	33.00	7.29	40.00	-32.71	VERTICAL	QP
3	142.324	26.36	12.98	2.12	33.00	8.46	43.50	-35.04	VERTICAL	QP
4	292.058	26.78	13.02	3.14	33.09	9.85	46.00	-36.15	VERTICAL	QP
5	572.614	28.44	18.94	4.98	33.37	18.99	46.00	-27.01	VERTICAL	QP
6	909.667	26.66	23.26	6.96	32.19	24.69	46.00	-21.31	VERTICAL	QP

7.9 Radiated Emissions (above 1GHz)

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

Test Method: KDB 789033 D02 II G

7.9.1 E.U.T. Operation

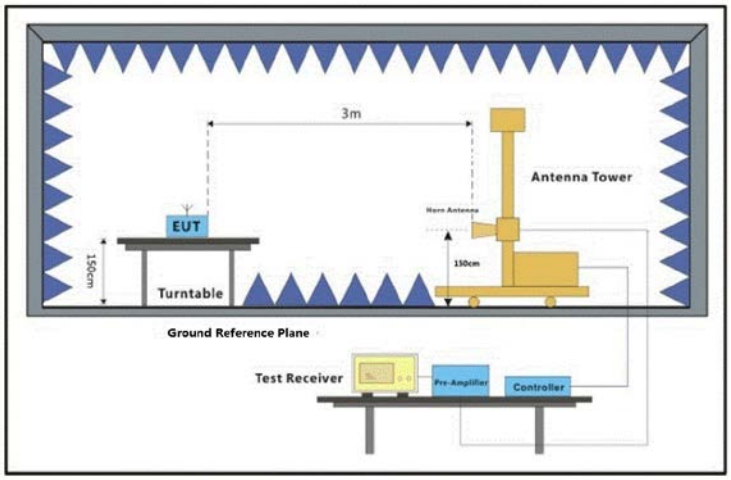
Operating Environment:

Temperature: 20.1 °C Humidity: 45.1 % RH Atmospheric Pressure: 1015 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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.
Pre-scan	02	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.
Pre-scan	03	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.
Pre-scan	04	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.

7.9.3 Test Setup Diagram



7.9.4 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 or 10 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:

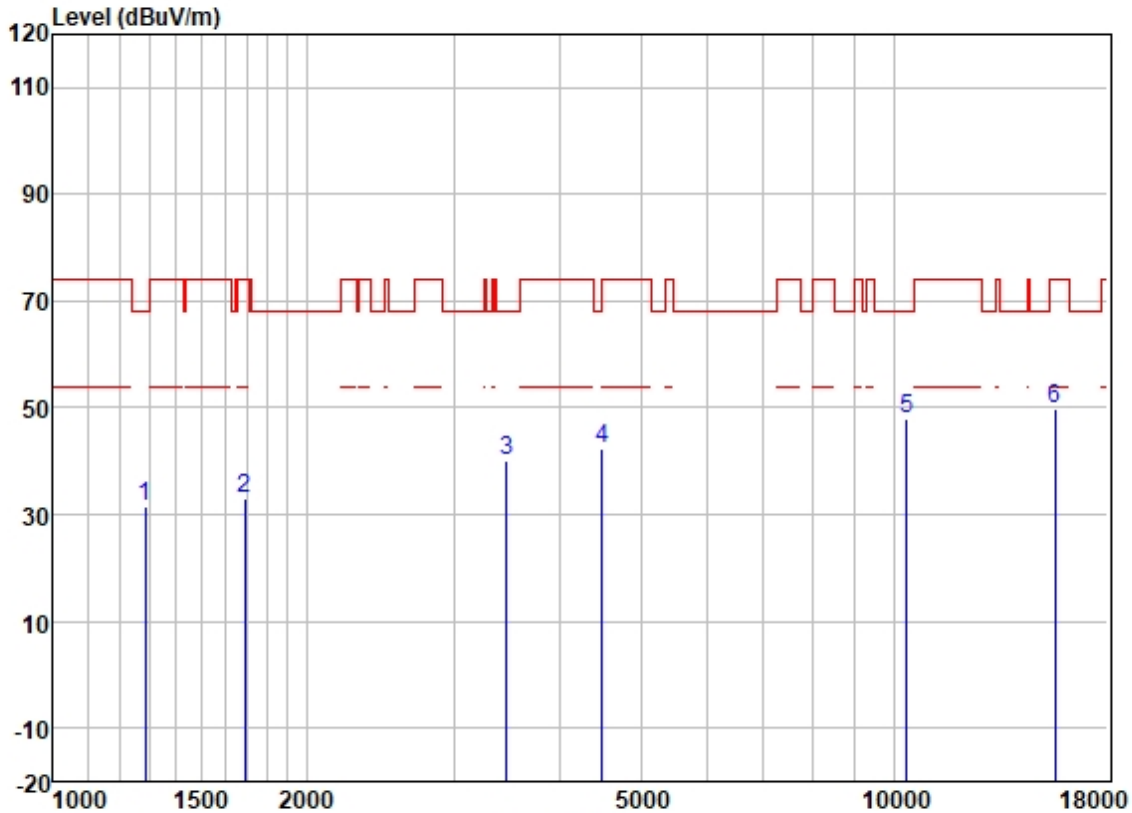
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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.

Test data for WF2-5G1

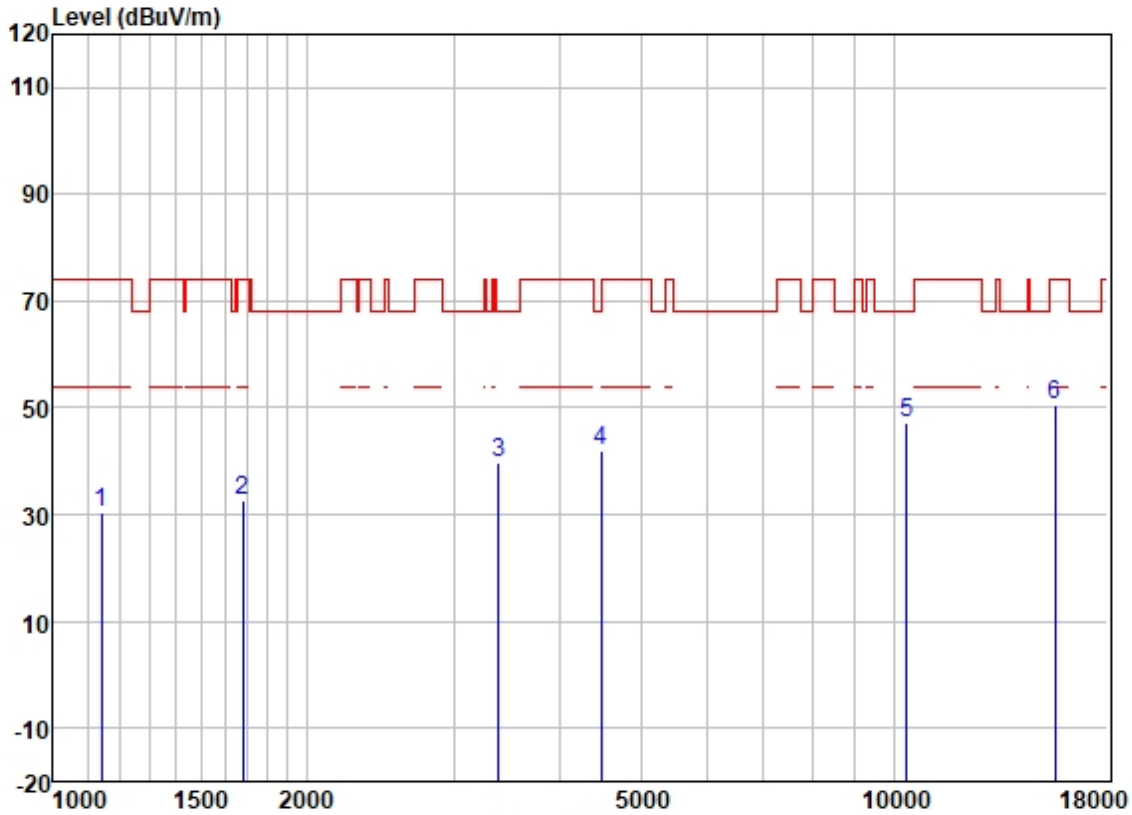
Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna 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	1285.904	42.25	25.16	2.53	38.33	31.61	68.20	-36.59	HORIZONTAL	Peak
2	1692.231	42.50	25.70	2.80	37.89	33.11	74.00	-40.89	HORIZONTAL	Peak
3	3465.510	43.98	28.88	4.22	36.95	40.13	68.20	-28.07	HORIZONTAL	Peak
4	4495.125	43.19	30.80	5.05	36.82	42.22	68.20	-25.98	HORIZONTAL	Peak
5	10360.000	38.87	39.28	7.29	37.37	48.07	68.20	-20.13	HORIZONTAL	Peak
6	15540.000	36.10	39.05	9.88	35.39	49.64	74.00	-24.36	HORIZONTAL	Peak

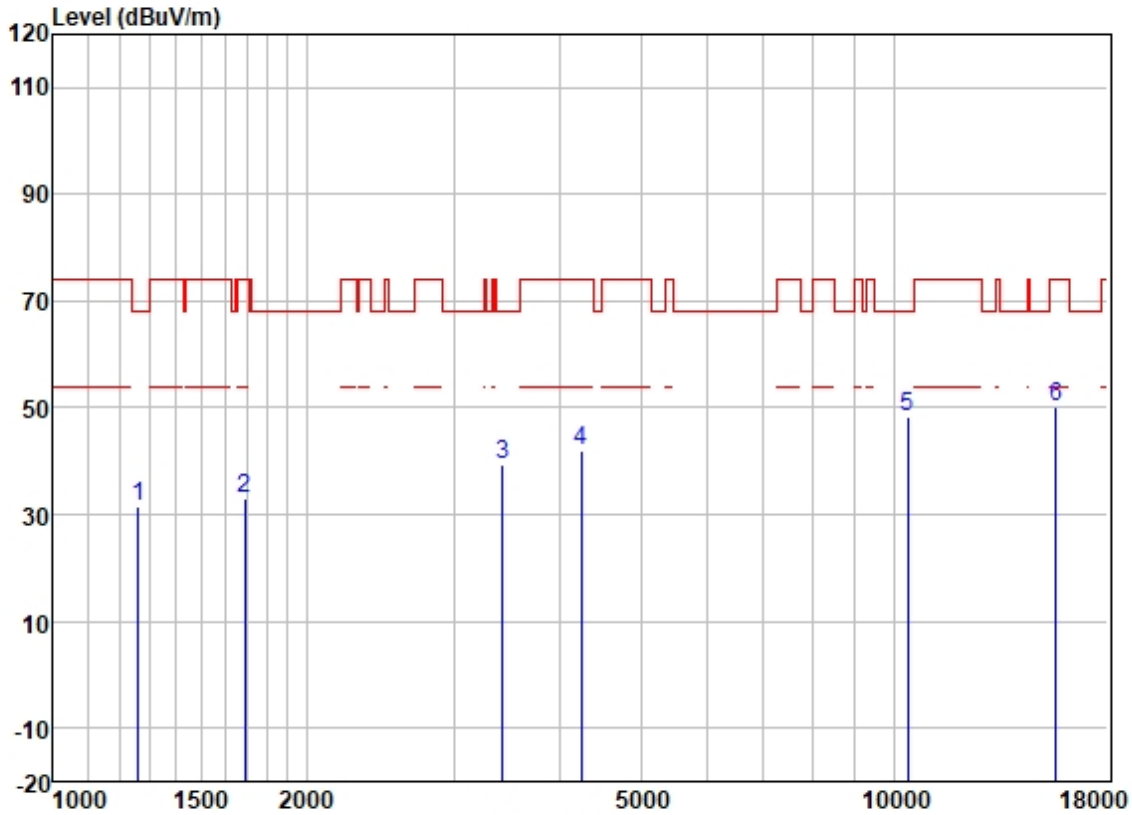
Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Trace: (Discrete)

	Freq	Read Level	Antenna 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	1142.201	42.17	24.47	2.30	38.42	30.52	74.00	-43.48	VERTICAL	Peak
2	1682.477	42.16	25.68	2.80	37.91	32.73	74.00	-41.27	VERTICAL	Peak
3	3386.297	43.90	28.83	4.10	36.99	39.84	68.20	-28.36	VERTICAL	Peak
4	4482.150	42.87	30.78	4.99	36.81	41.83	68.20	-26.37	VERTICAL	Peak
5	10360.000	38.07	39.28	7.29	37.37	47.27	68.20	-20.93	VERTICAL	Peak
6	15540.000	37.06	39.05	9.88	35.39	50.60	74.00	-23.40	VERTICAL	Peak

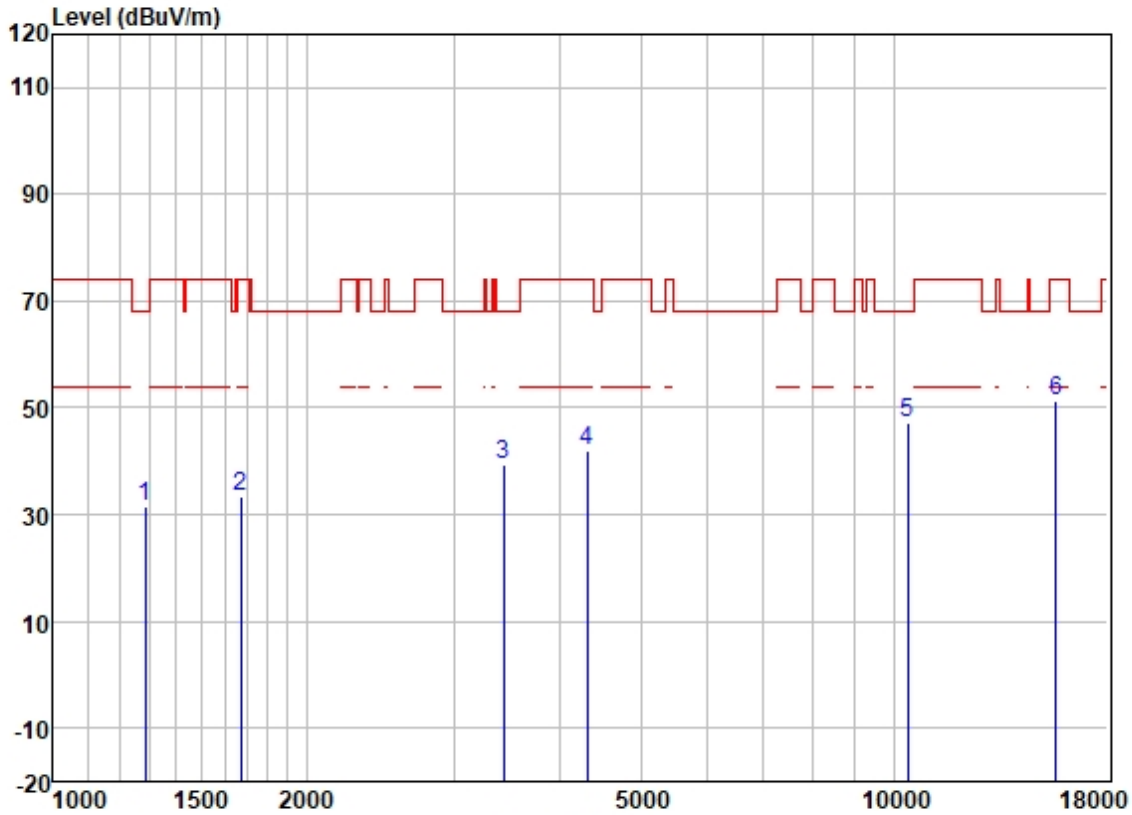
Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna 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	1263.796	42.47	25.08	2.42	38.33	31.64	68.20	-36.56	HORIZONTAL	Peak
2	1692.231	42.56	25.70	2.80	37.89	33.17	74.00	-40.83	HORIZONTAL	Peak
3	3425.675	43.49	28.86	4.15	36.97	39.53	68.20	-28.67	HORIZONTAL	Peak
4	4242.641	43.89	30.30	4.62	36.81	42.00	74.00	-32.00	HORIZONTAL	Peak
5	10400.000	39.12	39.33	7.32	37.36	48.41	68.20	-19.79	HORIZONTAL	Peak
6	15600.000	36.85	38.99	9.88	35.39	50.33	74.00	-23.67	HORIZONTAL	Peak

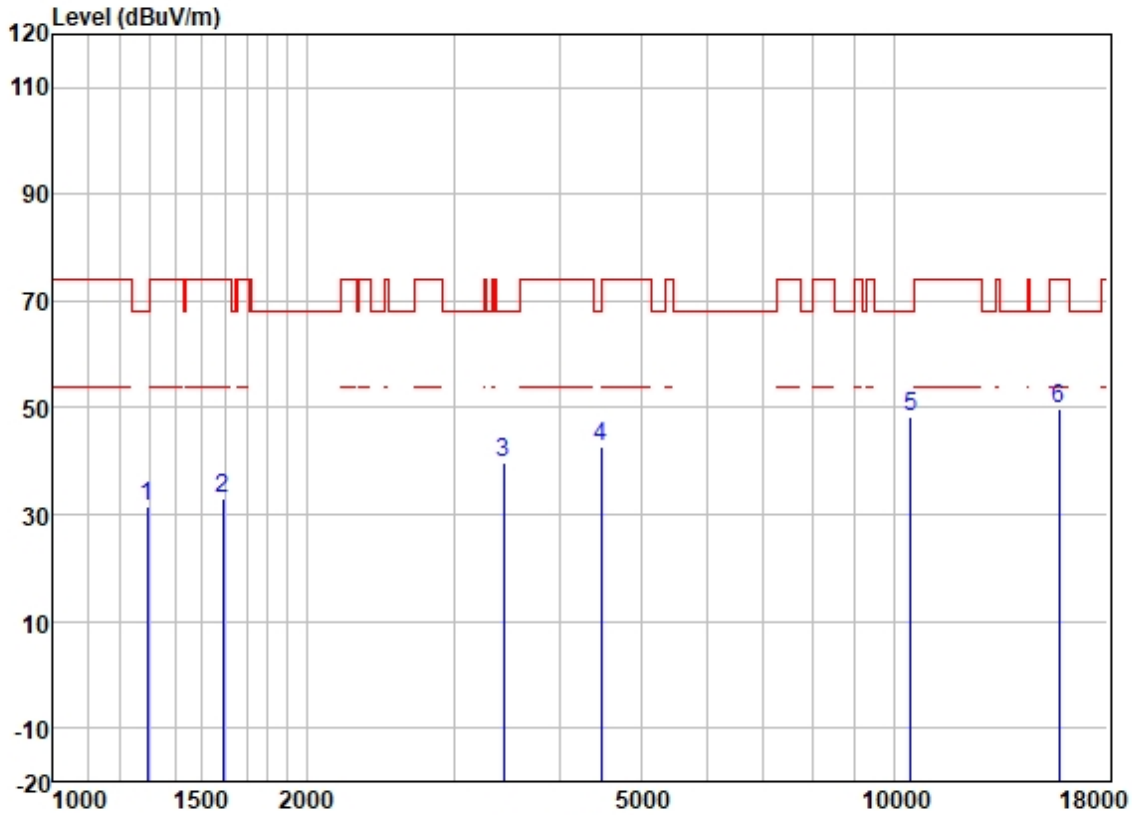
Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



race: (Discrete)

	Freq	Read Level	Antenna 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	1285.904	42.09	25.16	2.53	38.33	31.45	68.20	-36.75	VERTICAL	Peak
2	1672.779	42.75	25.67	2.80	37.91	33.31	74.00	-40.69	VERTICAL	Peak
3	3435.590	43.44	28.87	4.16	36.97	39.50	68.20	-28.70	VERTICAL	Peak
4	4316.859	43.63	30.51	4.66	36.81	41.99	74.00	-32.01	VERTICAL	Peak
5	10400.000	37.97	39.33	7.32	37.36	47.26	68.20	-20.94	VERTICAL	Peak
6	15600.000	37.71	38.99	9.88	35.39	51.19	74.00	-22.81	VERTICAL	Peak

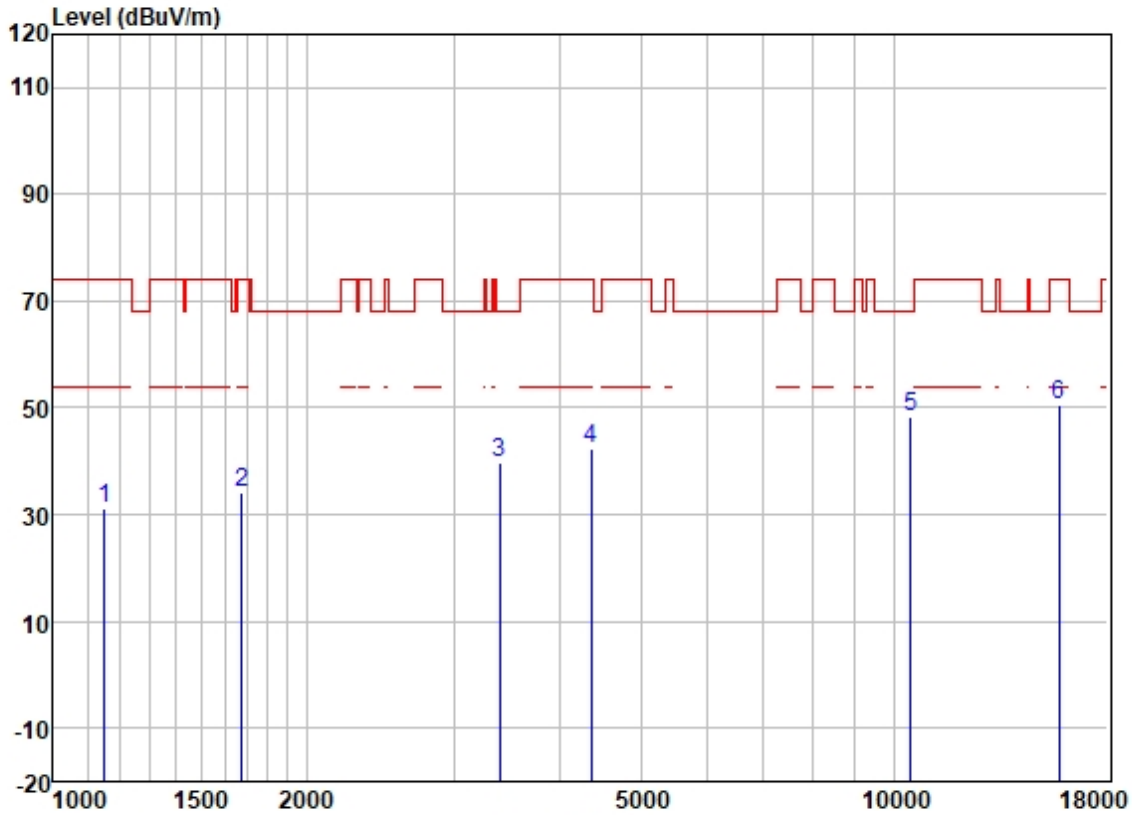
Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna 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	1293.359	42.06	25.18	2.57	38.31	31.50	68.20	-36.70	HORIZONTAL	Peak
2	1592.571	42.51	25.57	2.80	37.98	32.90	74.00	-41.10	HORIZONTAL	Peak
3	3435.590	43.51	28.87	4.16	36.97	39.57	68.20	-28.63	HORIZONTAL	Peak
4	4482.150	43.64	30.78	4.99	36.81	42.60	68.20	-25.60	HORIZONTAL	Peak
5	10480.000	38.98	39.46	7.40	37.36	48.48	68.20	-19.72	HORIZONTAL	Peak
6	15720.000	36.61	38.78	9.87	35.39	49.87	74.00	-24.13	HORIZONTAL	Peak

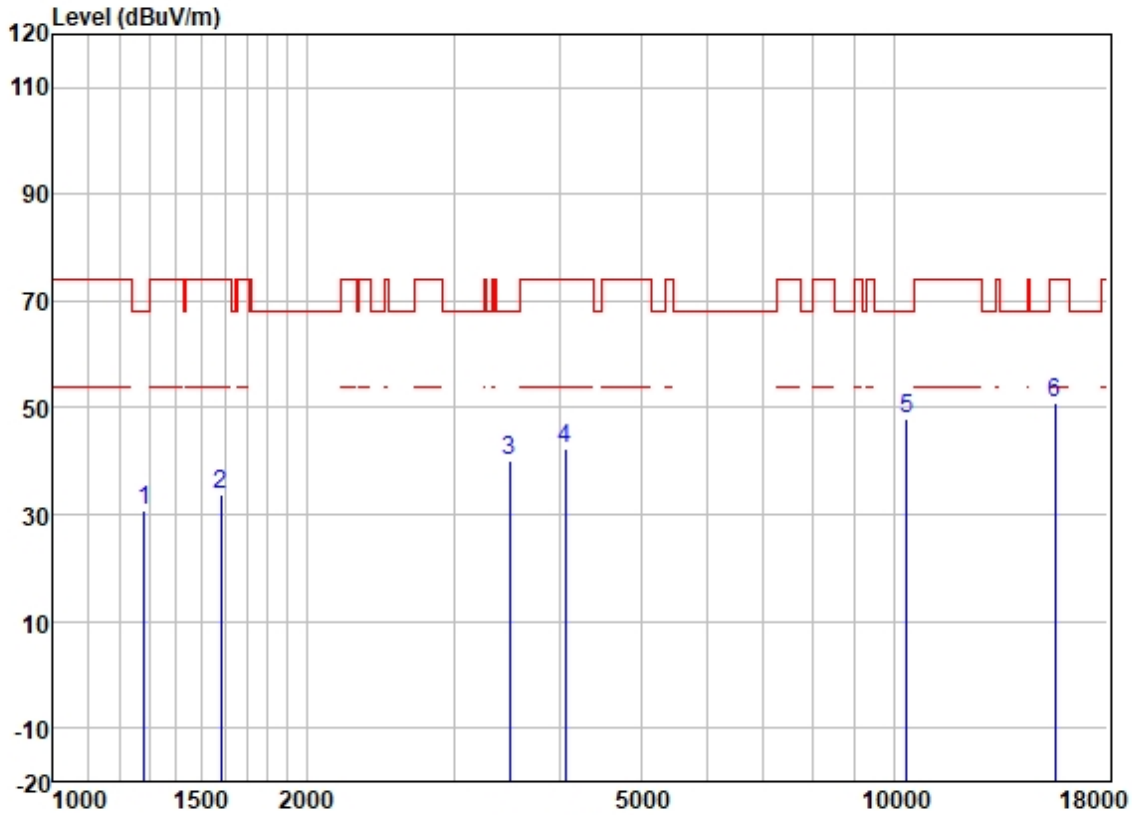
Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



race: (Discrete)

	Freq	Read Level	Antenna 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	1152.148	42.55	24.50	2.36	38.42	30.99	74.00	-43.01	VERTICAL	Peak
2	1677.621	43.38	25.68	2.80	37.91	33.95	74.00	-40.05	VERTICAL	Peak
3	3396.098	43.80	28.84	4.10	36.98	39.76	68.20	-28.44	VERTICAL	Peak
4	4367.058	43.83	30.62	4.68	36.81	42.32	74.00	-31.68	VERTICAL	Peak
5	10480.000	38.73	39.46	7.40	37.36	48.23	68.20	-19.97	VERTICAL	Peak
6	15720.000	37.21	38.78	9.87	35.39	50.47	74.00	-23.53	VERTICAL	Peak

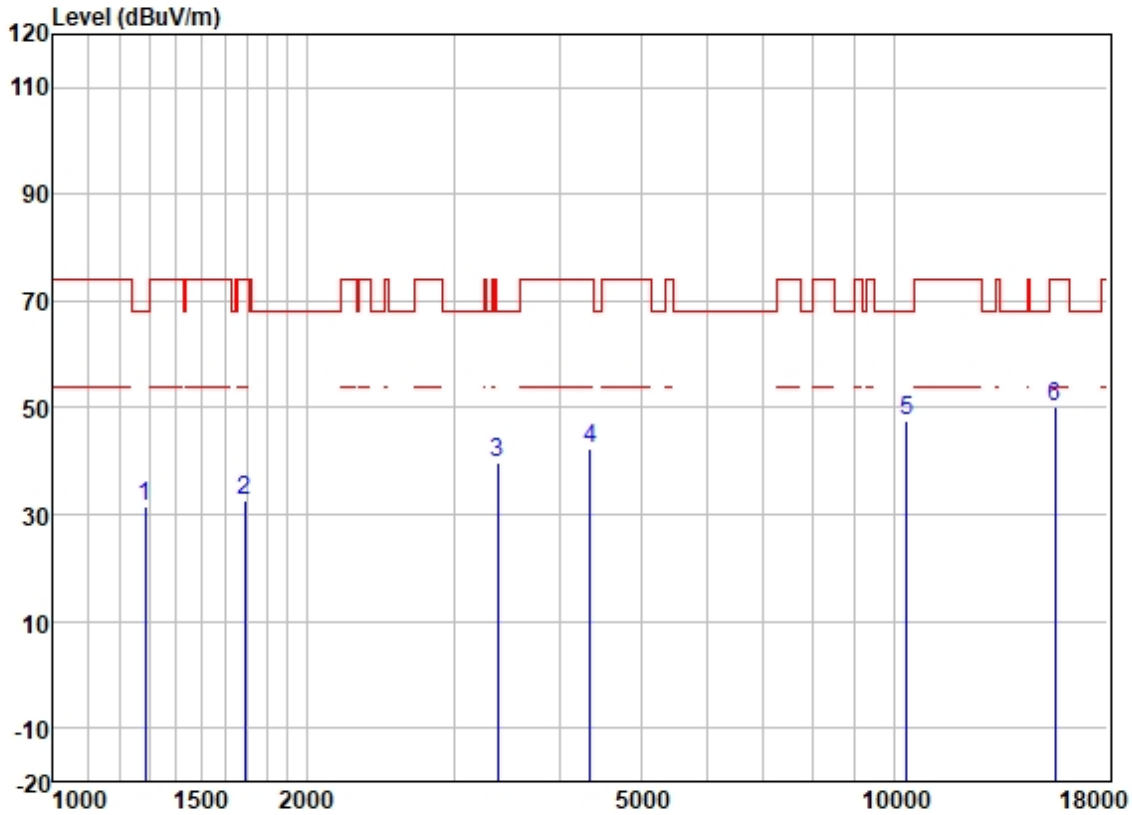
Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	ReadLevel	Antenna 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	1282.193	41.43	25.15	2.52	38.33	30.77	68.20	-37.43	HORIZONTAL	Peak
2	1583.392	43.54	25.56	2.80	38.00	33.90	74.00	-40.10	HORIZONTAL	Peak
3	3495.691	43.88	28.90	4.30	36.94	40.14	68.20	-28.06	HORIZONTAL	Peak
4	4062.629	44.72	29.88	4.60	36.80	42.40	74.00	-31.60	HORIZONTAL	Peak
5	10360.000	38.72	39.28	7.29	37.37	47.92	68.20	-20.28	HORIZONTAL	Peak
6	15540.000	37.27	39.05	9.88	35.39	50.81	74.00	-23.19	HORIZONTAL	Peak

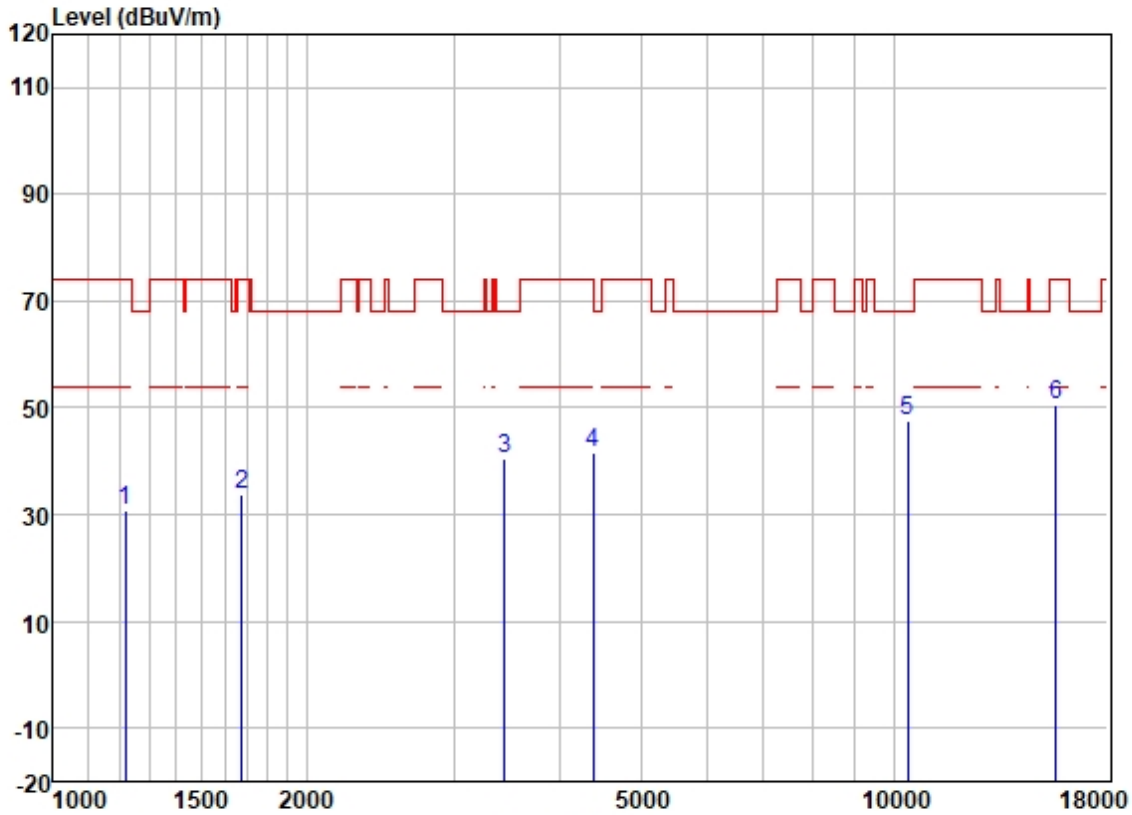
Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



race: (Discrete)

	Freq	Read Level	Antenna 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	1285.904	42.29	25.16	2.53	38.33	31.65	68.20	-36.55	VERTICAL	Peak
2	1692.231	42.18	25.70	2.80	37.89	32.79	74.00	-41.21	VERTICAL	Peak
3	3376.523	43.85	28.83	4.09	36.99	39.78	68.20	-28.42	VERTICAL	Peak
4	4354.454	43.72	30.59	4.68	36.81	42.18	74.00	-31.82	VERTICAL	Peak
5	10360.000	38.35	39.28	7.29	37.37	47.55	68.20	-20.65	VERTICAL	Peak
6	15540.000	36.74	39.05	9.88	35.39	50.28	74.00	-23.72	VERTICAL	Peak

Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Trace: (Discrete)

	Freq	Read Level	Antenna 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	1217.190	42.03	24.79	2.32	38.37	30.77	74.00	-43.23	HORIZONTAL	Peak
2	1677.621	43.34	25.68	2.80	37.91	33.91	74.00	-40.09	HORIZONTAL	Peak
3	3445.535	44.33	28.87	4.18	36.96	40.42	68.20	-27.78	HORIZONTAL	Peak
4	4392.376	43.16	30.66	4.70	36.81	41.71	74.00	-32.29	HORIZONTAL	Peak
5	10400.000	38.32	39.33	7.32	37.36	47.61	68.20	-20.59	HORIZONTAL	Peak
6	15600.000	36.94	38.99	9.88	35.39	50.42	74.00	-23.58	HORIZONTAL	Peak