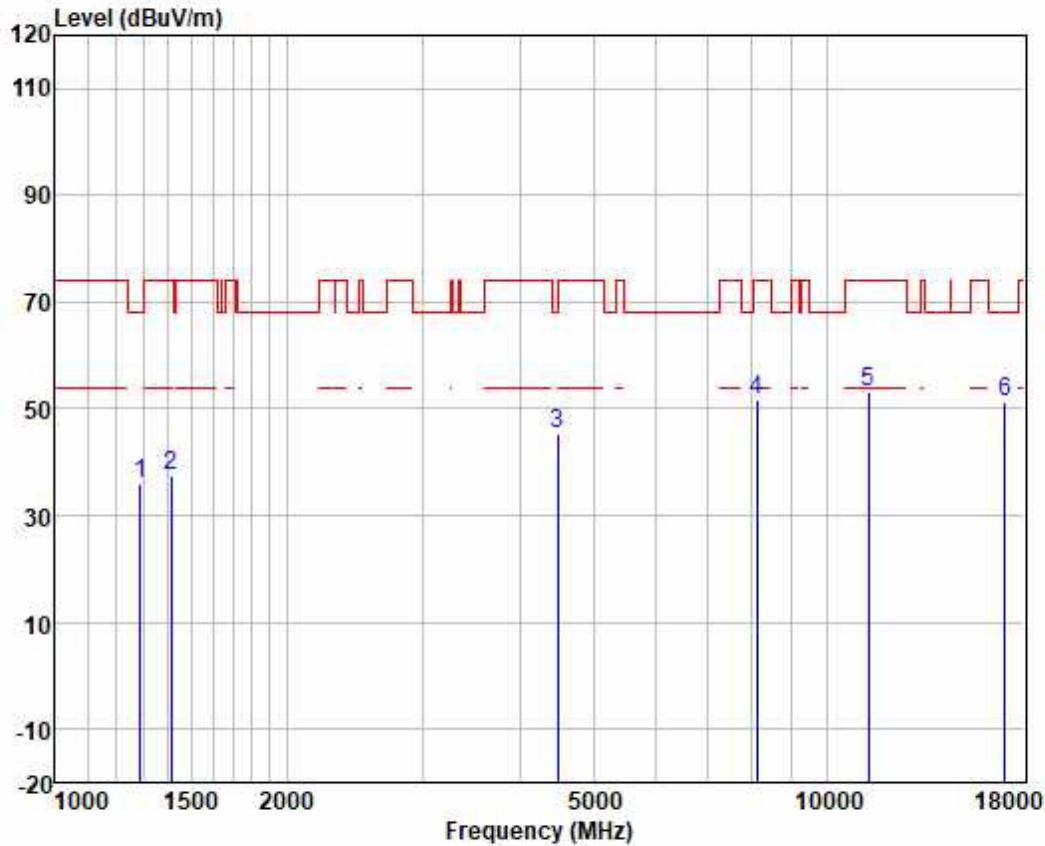


Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Freq	ReadAntenna	Cable	Preamp	Limit	Over	Remark	
	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1 1289.627	48.09	23.92	2.58	38.60	35.99	68.20	-32.21 HORIZONTAL peak
2 1414.597	48.99	24.29	2.67	38.47	37.48	74.00	-36.52 HORIZONTAL peak
3 4482.150	44.12	34.12	4.62	37.44	45.42	68.20	-22.78 HORIZONTAL peak
4 8129.664	45.75	36.99	6.26	37.20	51.80	74.00	-22.20 HORIZONTAL peak
5 11340.000	42.16	40.31	7.59	36.94	53.12	74.00	-20.88 HORIZONTAL peak
6 17010.000	36.89	41.57	9.43	36.42	51.47	68.20	-16.73 HORIZONTAL peak

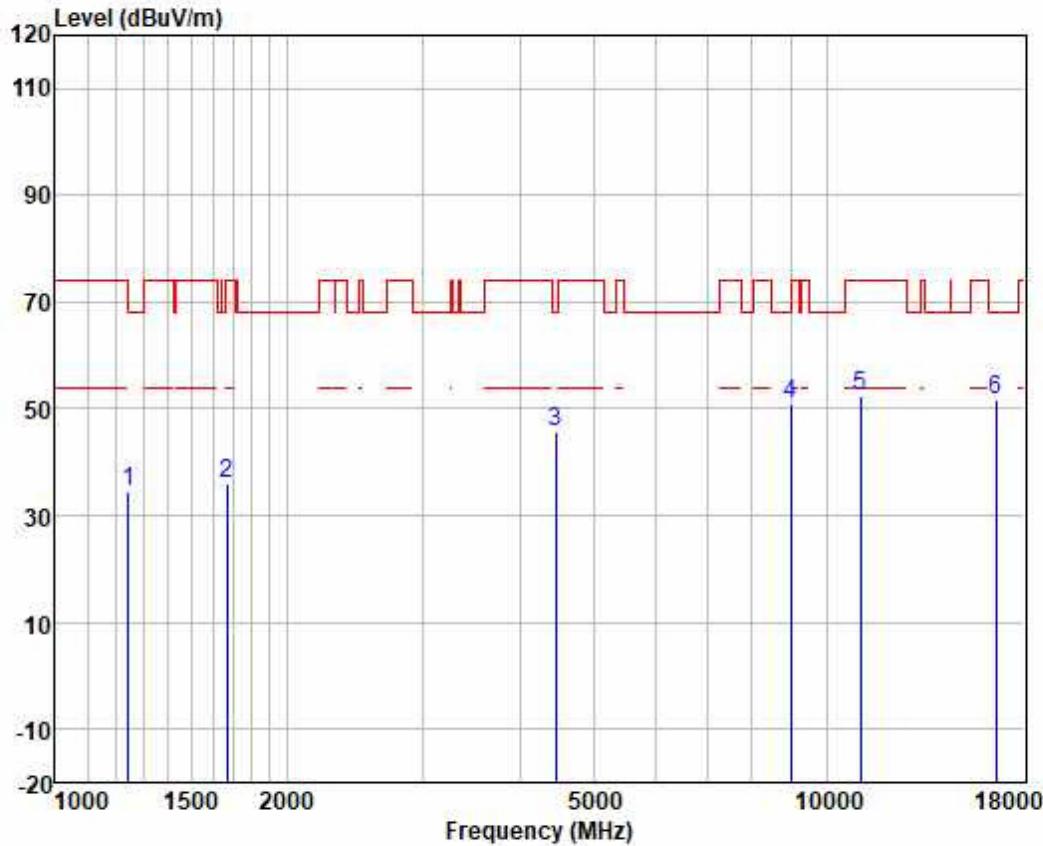
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Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



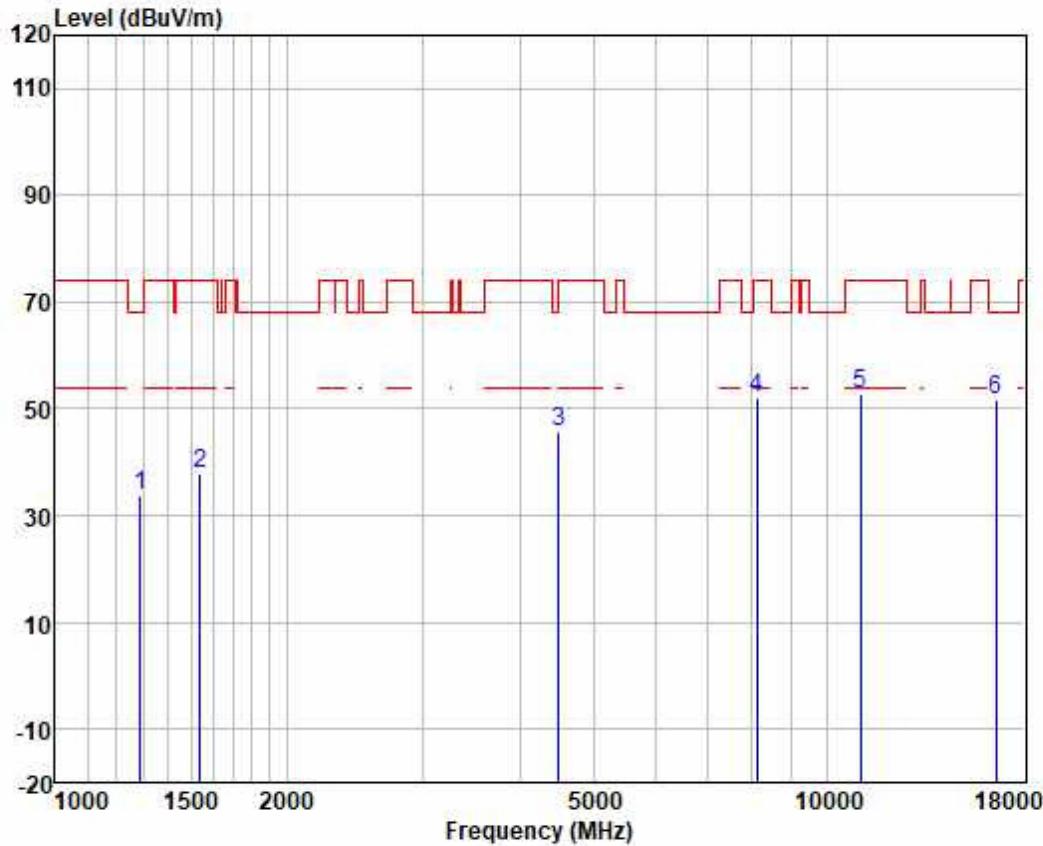
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss					
MHz	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1245.663	47.06	23.65	2.51	38.64	34.58	68.20	-33.62	VERTICAL peak
2	1672.779	46.14	24.98	2.82	38.05	35.89	74.00	-38.11	VERTICAL peak
3	4456.315	44.53	34.00	4.61	37.45	45.69	68.20	-22.51	VERTICAL peak
4	8995.123	43.87	37.59	6.57	37.15	50.88	68.20	-17.32	VERTICAL peak
5	11060.000	41.46	40.41	7.53	36.98	52.42	74.00	-21.58	VERTICAL peak
6	16590.000	39.41	39.21	9.36	36.44	51.54	68.20	-16.66	VERTICAL peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Freq	ReadAntenna	Cable	Preamp	Limit	Over	Remark	
	Level	Loss	Factor				
MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1 1289.627	46.04	23.92	2.58	38.60	33.94	68.20	-34.26 HORIZONTAL peak
2 1542.733	48.69	24.53	2.72	38.23	37.71	74.00	-36.29 HORIZONTAL peak
3 4495.125	44.29	34.17	4.62	37.44	45.64	68.20	-22.56 HORIZONTAL peak
4 8129.664	46.00	36.99	6.26	37.20	52.05	74.00	-21.95 HORIZONTAL peak
5 11060.000	41.98	40.41	7.53	36.98	52.94	74.00	-21.06 HORIZONTAL peak
6 16590.000	39.72	39.21	9.36	36.44	51.85	68.20	-16.35 HORIZONTAL peak

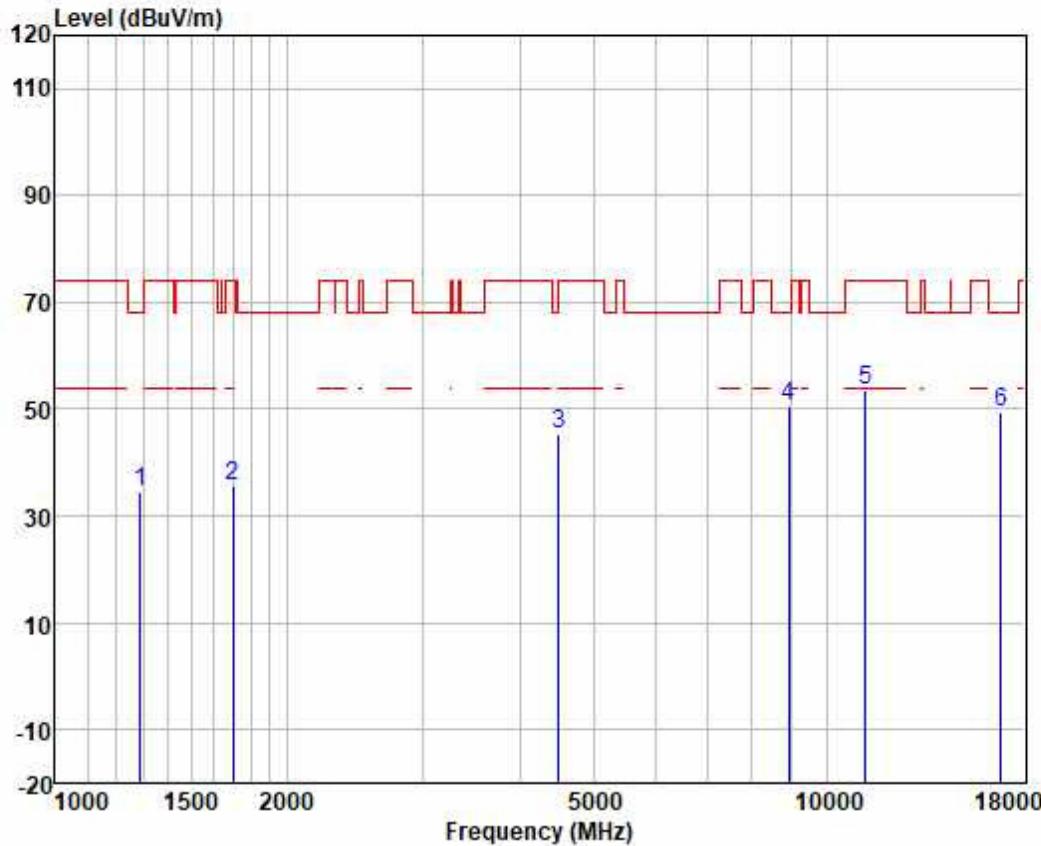


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Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Freq	ReadAntenna	Cable	Preamp	Limit	Over	Over	Remark
	Level	Loss	Factor				
MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1 1289.627	46.77	23.92	2.58	38.60	34.67	68.20	-33.53 VERTICAL peak
2 1702.042	45.62	25.15	2.85	38.03	35.59	74.00	-38.41 VERTICAL peak
3 4495.125	43.82	34.17	4.62	37.44	45.17	68.20	-23.03 VERTICAL peak
4 8943.274	43.82	37.50	6.56	37.16	50.72	68.20	-17.48 VERTICAL peak
5 11220.000	42.46	40.36	7.56	36.96	53.42	74.00	-20.58 VERTICAL peak
6 16830.000	35.76	40.78	9.41	36.43	49.52	68.20	-18.68 VERTICAL peak

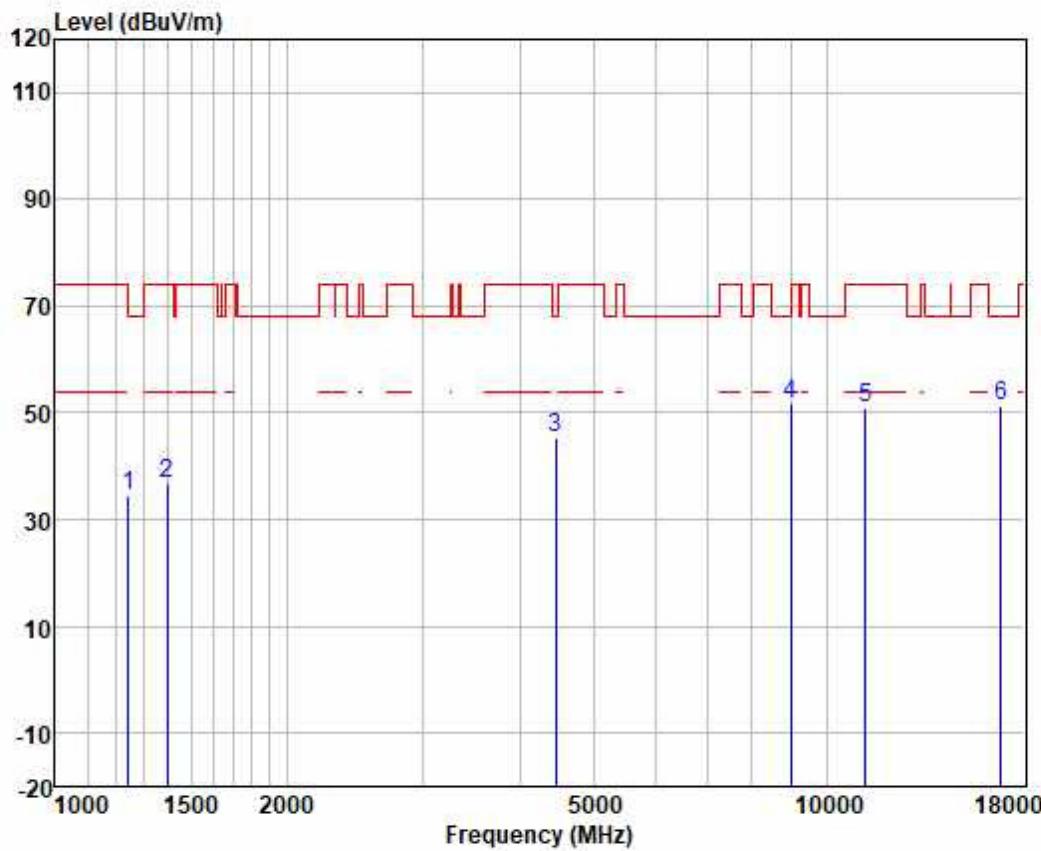


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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Line	Pol/Phase	Remark
	MHz	Level	Factor	Loss						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1245.663	47.03	23.65	2.51	38.64	34.55	68.20	-33.65	HORIZONTAL	peak
2	1398.336	48.35	24.26	2.66	38.49	36.78	74.00	-37.22	HORIZONTAL	peak
3	4456.315	44.24	34.00	4.61	37.45	45.40	68.20	-22.80	HORIZONTAL	peak
4	8995.123	44.78	37.59	6.57	37.15	51.79	68.20	-16.41	HORIZONTAL	peak
5	11220.000	40.16	40.36	7.56	36.96	51.12	74.00	-22.88	HORIZONTAL	peak
6	16830.000	37.68	40.78	9.41	36.43	51.44	68.20	-16.76	HORIZONTAL	peak

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**7.5 Radiated Emissions which fall in the restricted bands**

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

Test Method: ANSI C63.10 (2013) Section 6.10.5

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.

**7.5.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.6 °C

Humidity: 55.9 % RH

Atmospheric Pressure: 1020 mbar



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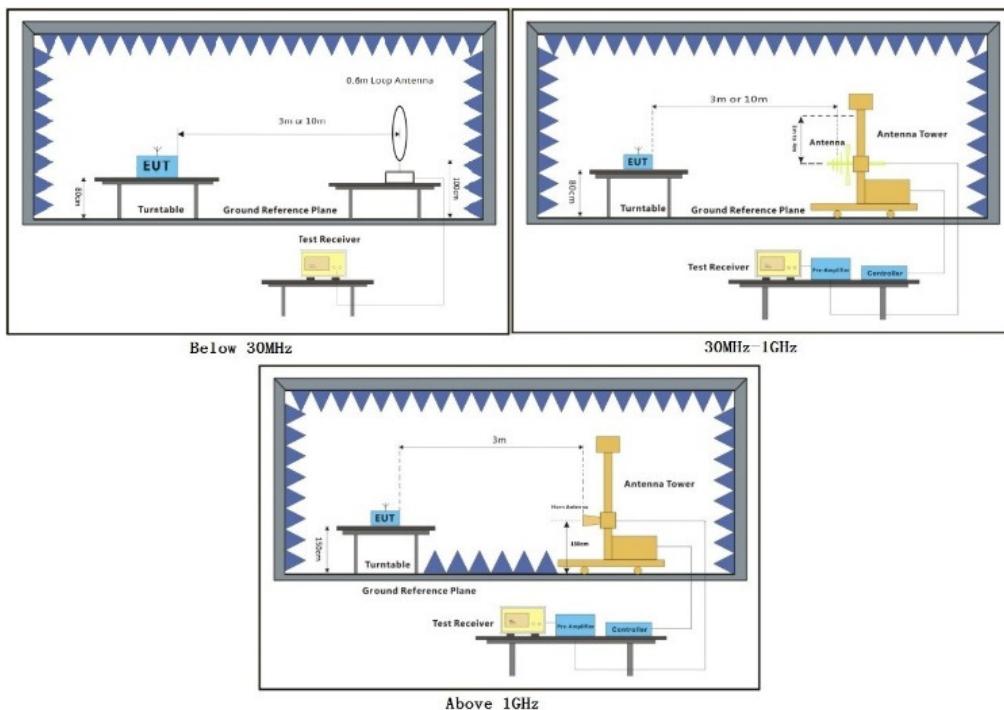
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### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	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/ac 20/40/80, Only the data of worst case is recorded in the report.

### 7.5.3 Test Setup Diagram



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**7.5.4 Measurement Procedure and Data**

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

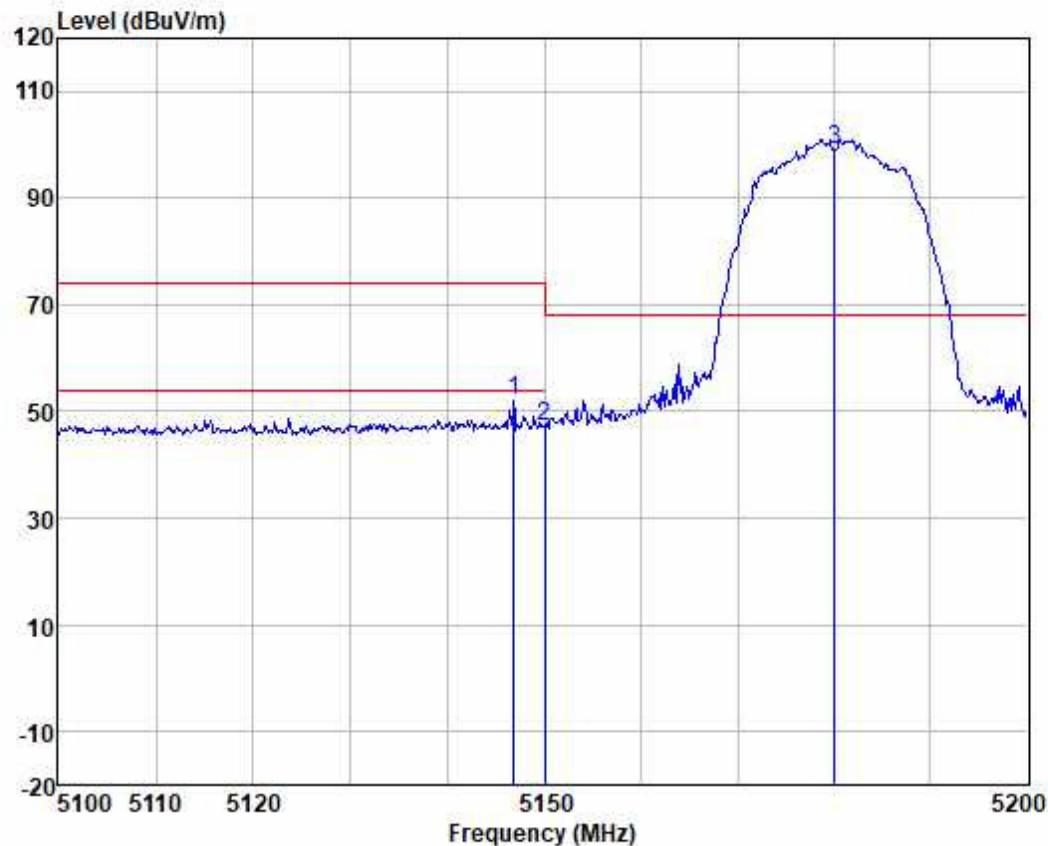
Remark 3. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.



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



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Over	Remark
	Freq	Level	Antenna	Loss	Factor	Level				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1 5146.858	50.71	33.79	4.96	37.23	52.23	74.00	-21.77	VERTICAL	peak	
2 5150.000	45.76	33.79	4.96	37.23	47.28	68.20	-20.92	VERTICAL	peak	
3 * 5180.000	97.64	33.69	4.98	37.22	99.09	68.20	30.89	VERTICAL	peak	

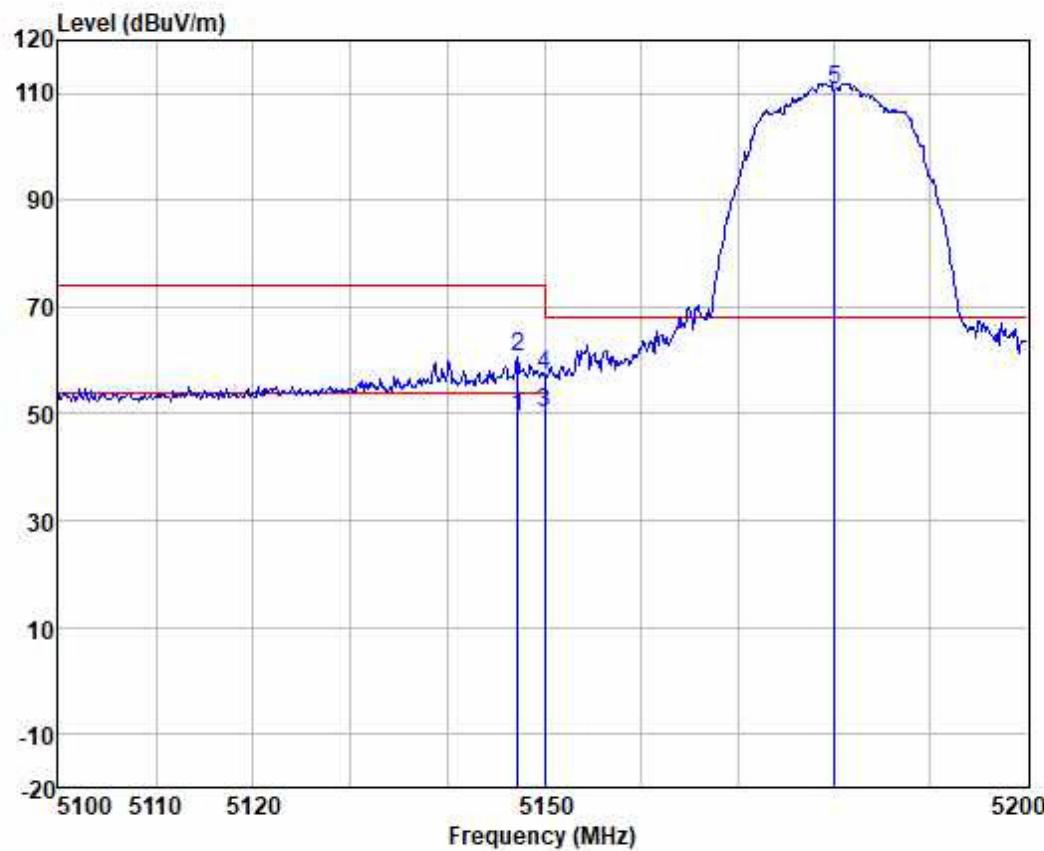
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Freq	Read	Antenna	Cable	Preamp	Limit		Over	Remark
	Freq	Level	Factor	Loss	Factor	Line	Line	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	5147.258	47.79	33.79	4.96	37.23	49.31	54.00	-4.69 HORIZONTAL Average
2	5147.258	59.13	33.79	4.96	37.23	60.65	74.00	-13.35 HORIZONTAL peak
3	5150.000	48.67	33.79	4.96	37.23	50.19	54.00	-3.81 HORIZONTAL Average
4	5150.000	55.89	33.79	4.96	37.23	57.41	68.20	-10.79 HORIZONTAL peak
5 *	5180.000	109.28	33.69	4.98	37.22	110.73	68.20	42.53 HORIZONTAL peak

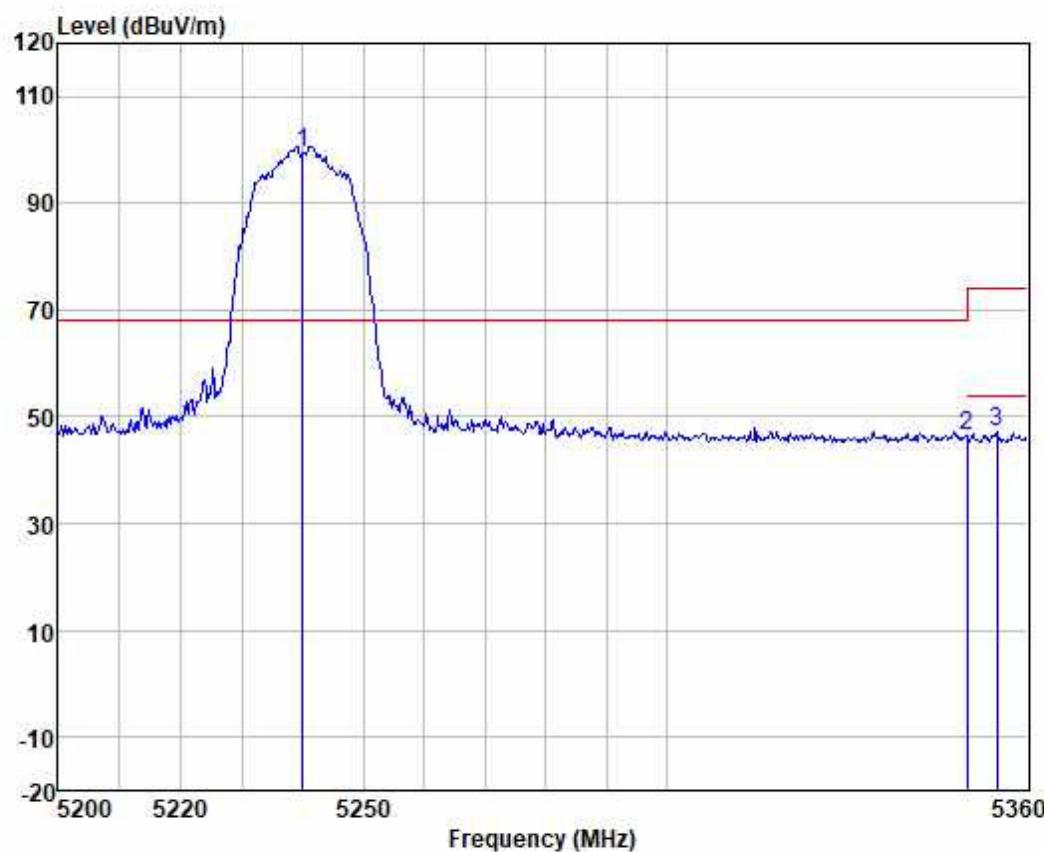
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sgs.china@sgs.com t (86-20) 82155555

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



Freq MHz	ReadAntenna		Cable		Preamp		Limit Line dBuV/m	Over Limit dB	Over Limit Pol/Phase	Remark
	Freq MHz	Level dBuV	Level Factor	Loss dB	Factor	Level dBuV/m				
1 * 5240.000	98.23	33.45	5.02	37.21	99.49	68.20	31.29	VERTICAL	peak	
2 5350.000	45.52	33.00	5.09	37.18	46.43	68.20	-21.77	VERTICAL	peak	
3 5355.129	46.16	32.95	5.10	37.18	47.03	74.00	-26.97	VERTICAL	peak	

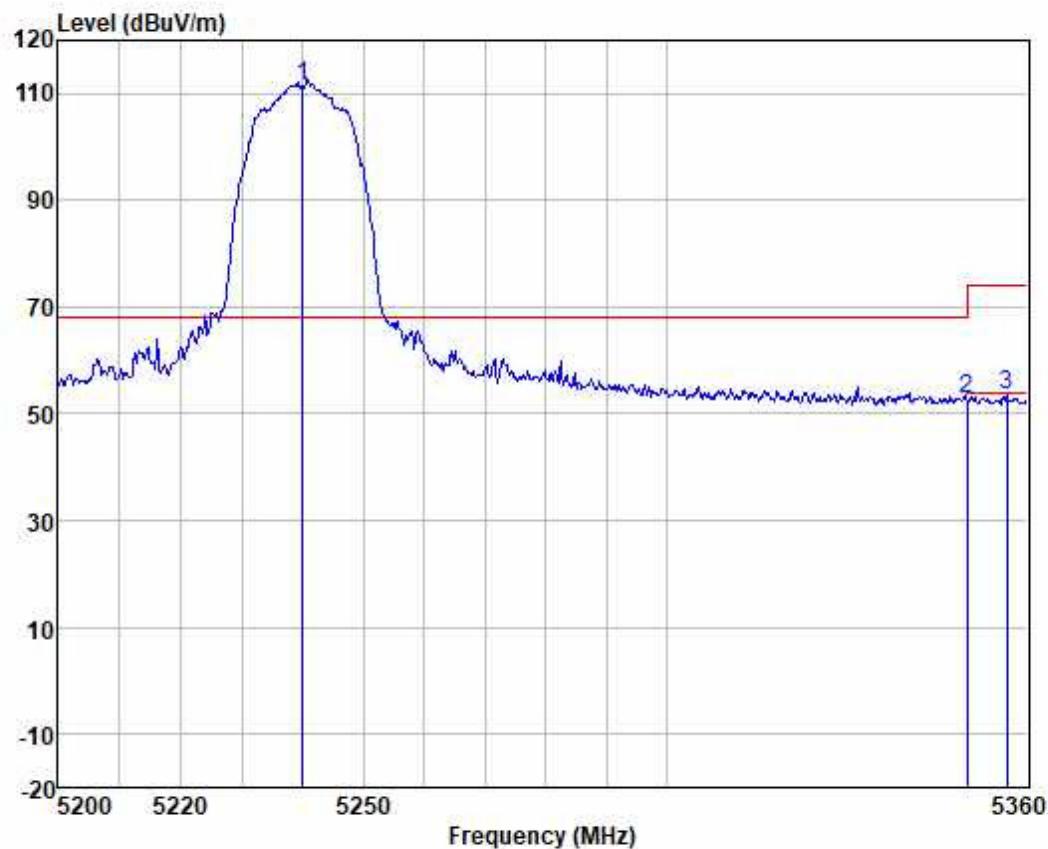
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t (86-20) 82155555 sgs.china@sgs.com

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



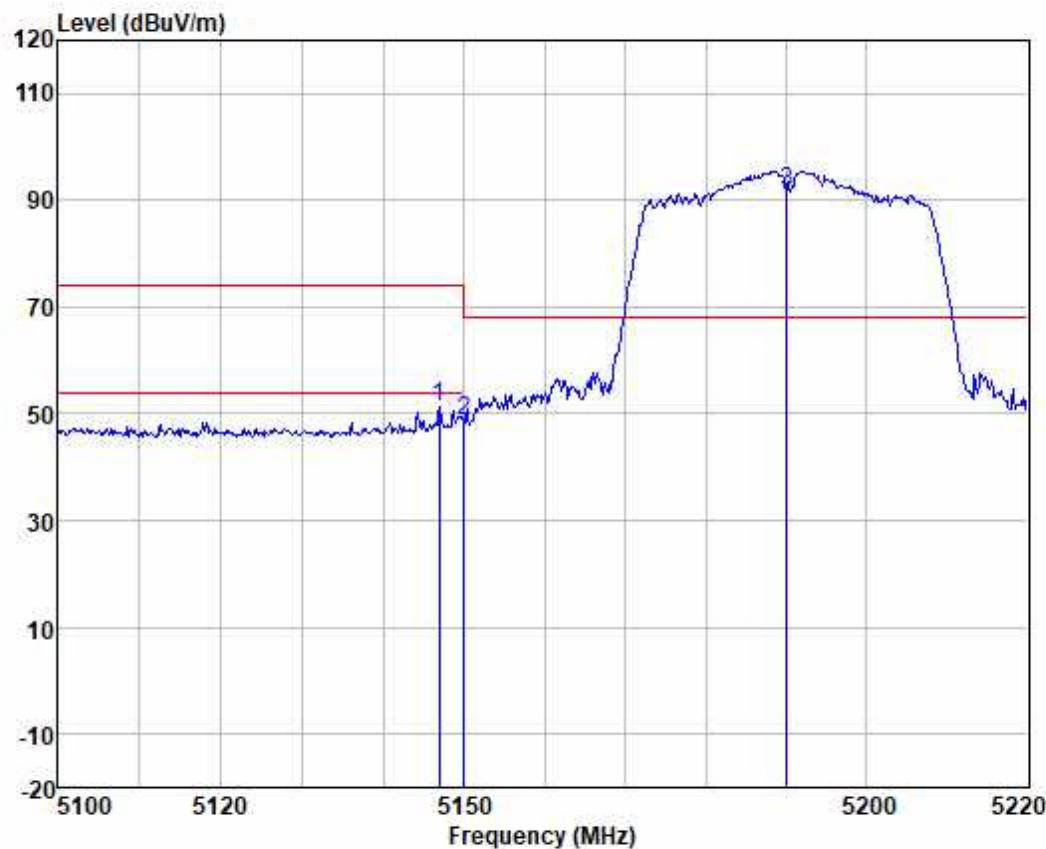
Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB
1 * 5240.000	110.19	33.45	5.02	37.21	111.45	68.20	43.25	HORIZONTAL	peak	
2 5350.000	52.02	33.00	5.09	37.18	52.93	68.20	-15.27	HORIZONTAL	peak	
3 5356.752	52.68	32.95	5.10	37.18	53.55	74.00	-20.45	HORIZONTAL	peak	



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



Freq	Read	Antenna	Cable	Preamp	Limit		Over	Remark
	Freq	Level	Factor	Loss	Factor	Line	Line	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	5146.947	49.97	33.79	4.96	37.23	51.49	74.00	-22.51 VERTICAL peak
2	5150.000	47.05	33.79	4.96	37.23	48.57	68.20	-19.63 VERTICAL peak
3 *	5190.000	90.08	33.64	4.99	37.22	91.49	68.20	23.29 VERTICAL peak

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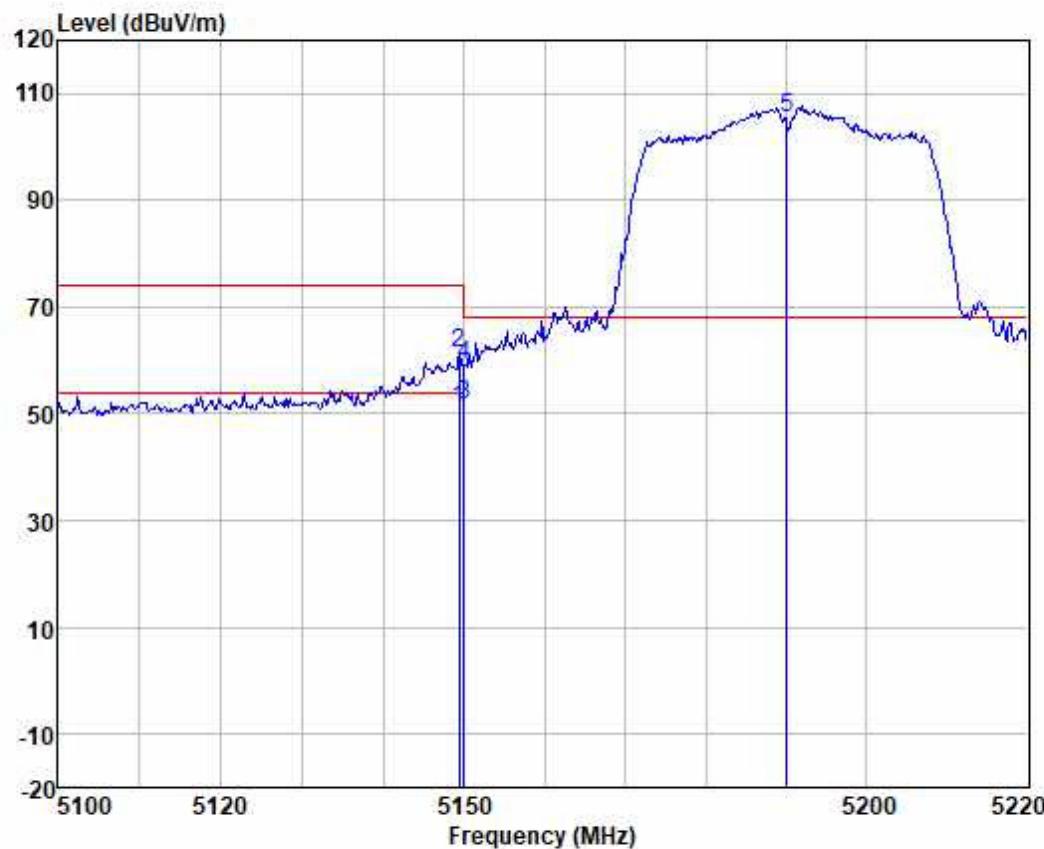
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t (86-20) 82155555 sgs.china@sgs.com

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



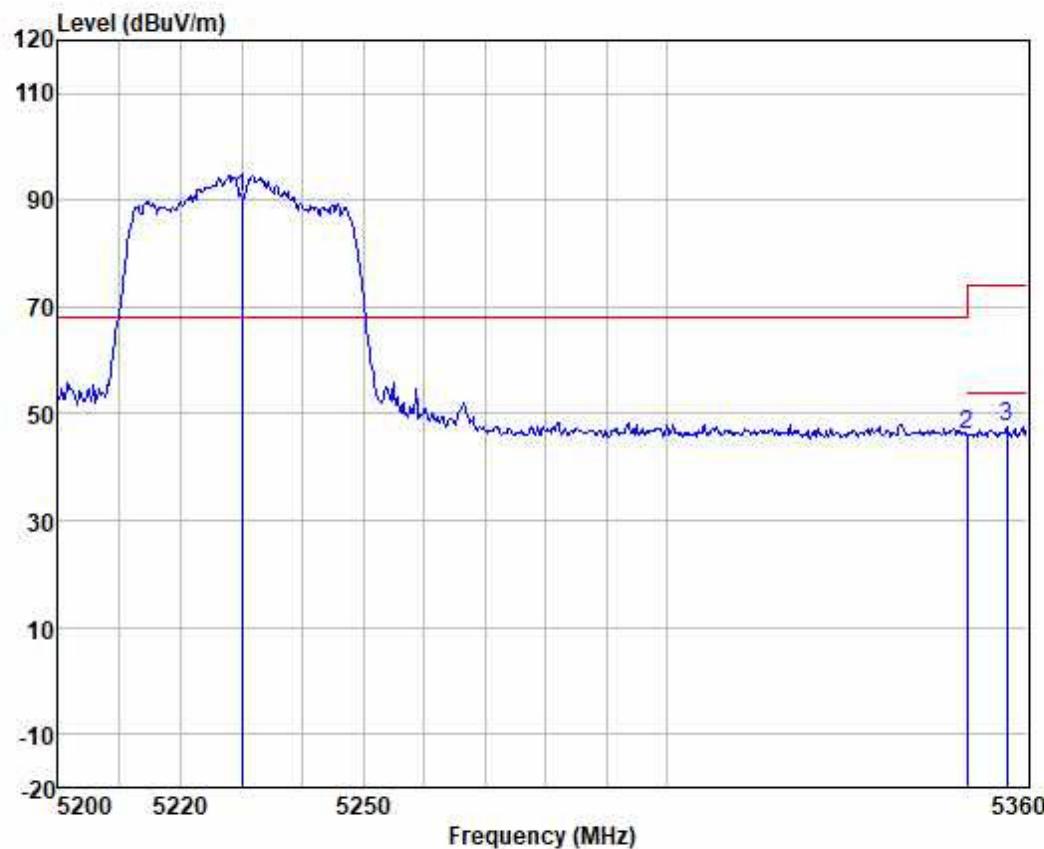
Freq	Read	Antenna	Cable	Preamp	Limit		Over	Remark
	Freq	Level	Factor	Loss	Factor	Line	Line	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	5149.342	49.44	33.79	4.96	37.23	50.96	54.00	-3.04 HORIZONTAL Average
2	5149.342	59.92	33.79	4.96	37.23	61.44	74.00	-12.56 HORIZONTAL peak
3	5150.000	50.02	33.79	4.96	37.23	51.54	54.00	-2.46 HORIZONTAL Average
4	5150.000	57.47	33.79	4.96	37.23	58.99	68.20	-9.21 HORIZONTAL peak
5 *	5190.000	104.15	33.64	4.99	37.22	105.56	68.20	37.36 HORIZONTAL peak



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



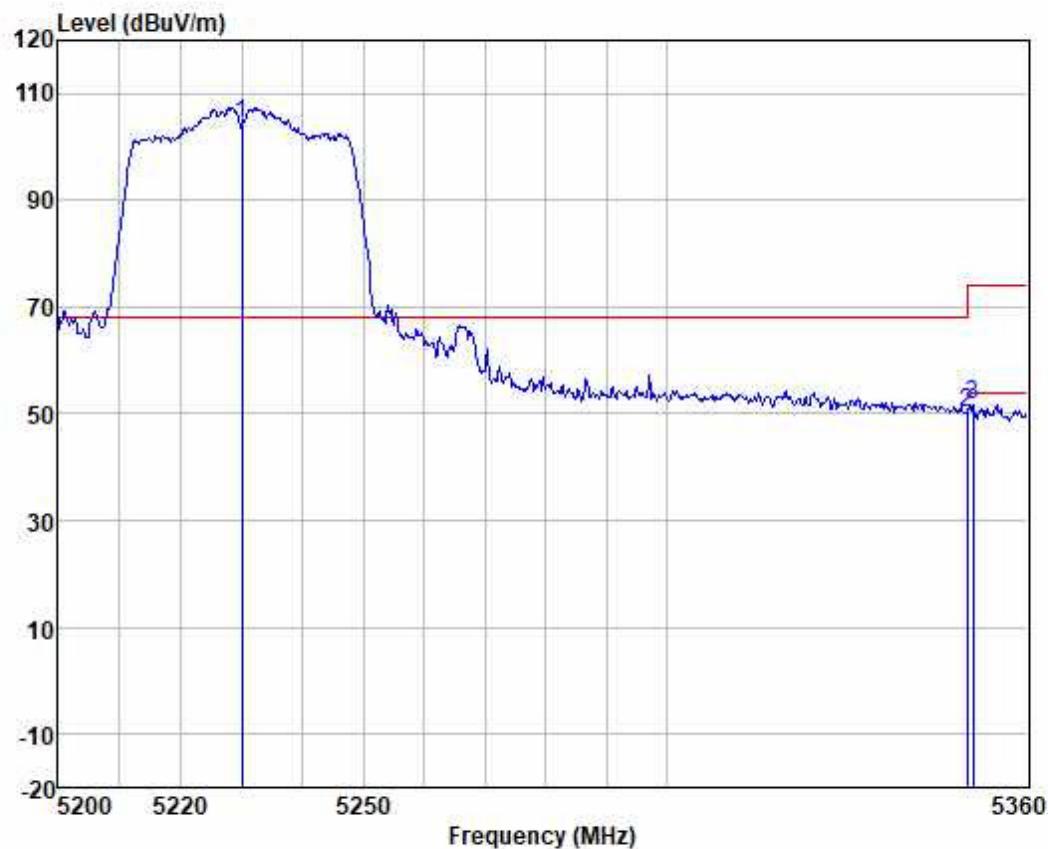
Freq MHz	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Line	Over Line	Over Limit	Pol/Phase	Remark
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 * 5230.000	89.28	33.52	5.01	37.21	90.60	68.20	22.40	VERTICAL	peak
2 5350.000	45.26	33.00	5.09	37.18	46.17	68.20	-22.03	VERTICAL	peak
3 5356.752	46.80	32.95	5.10	37.18	47.67	74.00	-26.33	VERTICAL	peak



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



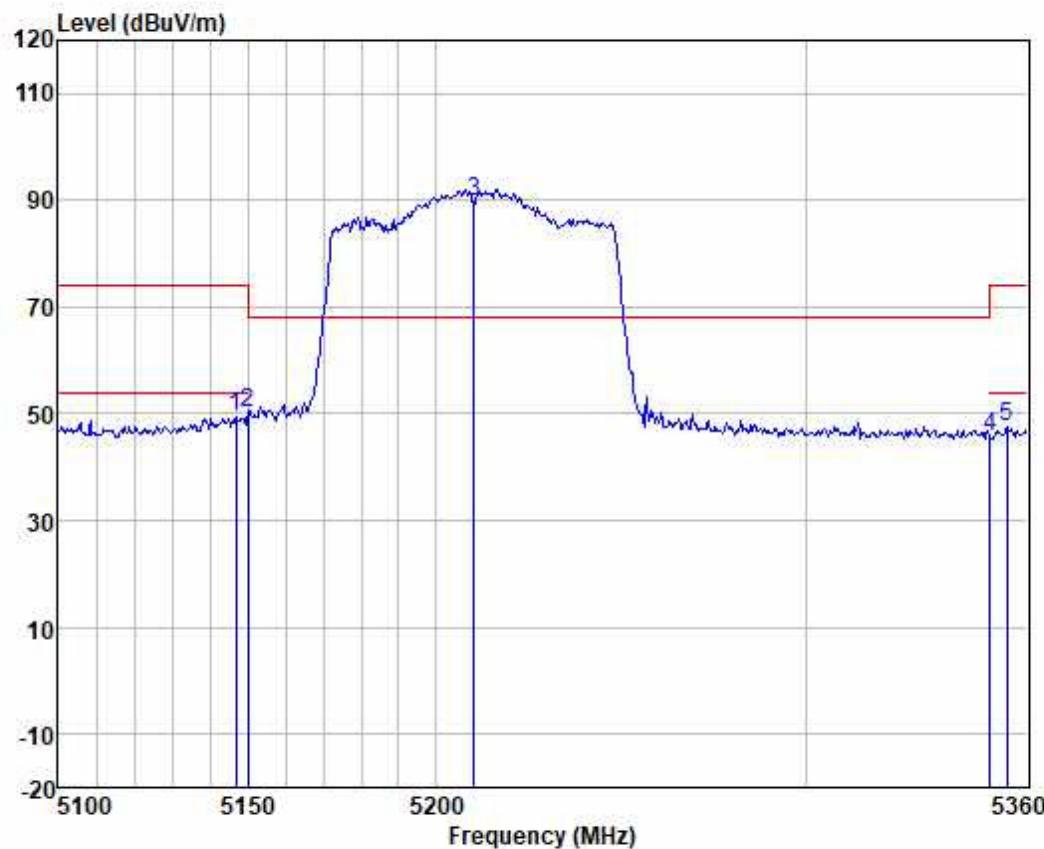
Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Over Line Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB
1 * 5230.000	103.00	33.52	5.01	37.21	104.32	68.20	36.12	HORIZONTAL	peak	
2 5350.000	49.25	33.00	5.09	37.18	50.16	68.20	-18.04	HORIZONTAL	peak	
3 5351.073	50.63	33.00	5.09	37.18	51.54	74.00	-22.46	HORIZONTAL	peak	



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



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Over	Remark
	Freq	Level	Factor	Loss					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	
1 5146.875	48.00	33.79	4.96	37.23	49.52	74.00	-24.48	VERTICAL	peak
2 5150.000	48.80	33.79	4.96	37.23	50.32	68.20	-17.88	VERTICAL	peak
3 * 5210.000	88.22	33.58	5.00	37.21	89.59	68.20	21.39	VERTICAL	peak
4 5350.000	44.74	33.00	5.09	37.18	45.65	68.20	-22.55	VERTICAL	peak
5 5354.672	46.71	32.95	5.10	37.18	47.58	74.00	-26.42	VERTICAL	peak

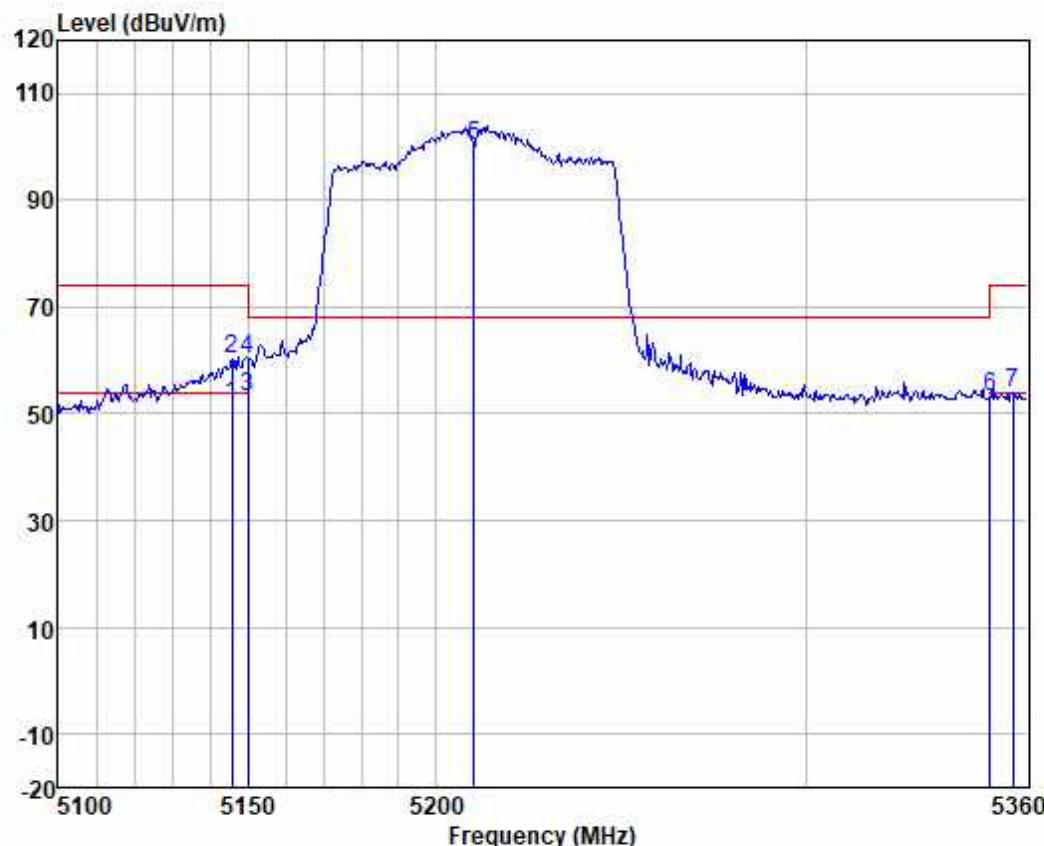
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t (86-20) 82155555 sgs.china@sgs.com

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



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Over	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	5145.851	50.17	33.79	4.96	37.23	51.69	54.00	-2.31 HORIZONTAL Average
2	5145.851	58.89	33.79	4.96	37.23	60.41	74.00	-13.59 HORIZONTAL Peak
3	5150.000	51.78	33.79	4.96	37.23	53.30	54.00	-0.70 HORIZONTAL Average
4	5150.000	58.69	33.79	4.96	37.23	60.21	68.20	-7.99 HORIZONTAL peak
5 *	5210.000	98.98	33.58	5.00	37.21	100.35	68.20	32.15 HORIZONTAL peak
6	5350.000	52.32	33.00	5.09	37.18	53.23	68.20	-14.97 HORIZONTAL peak
7	5356.270	52.89	32.95	5.10	37.18	53.76	74.00	-20.24 HORIZONTAL Peak

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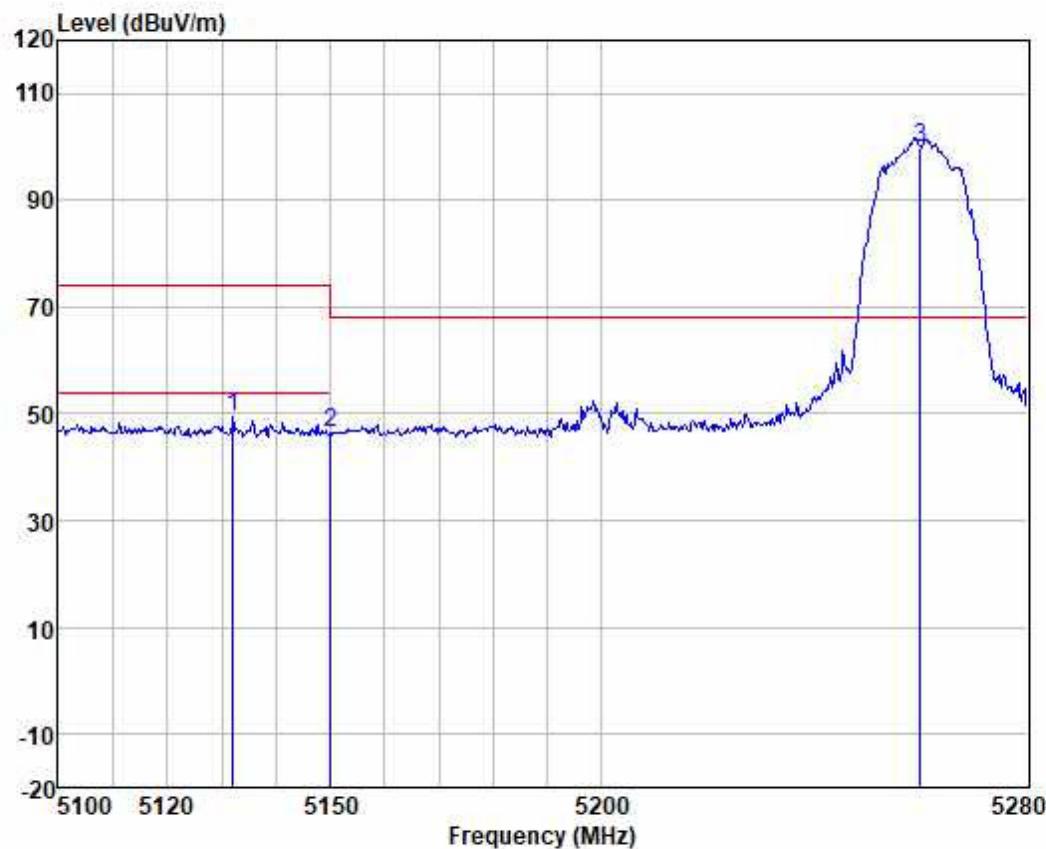
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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



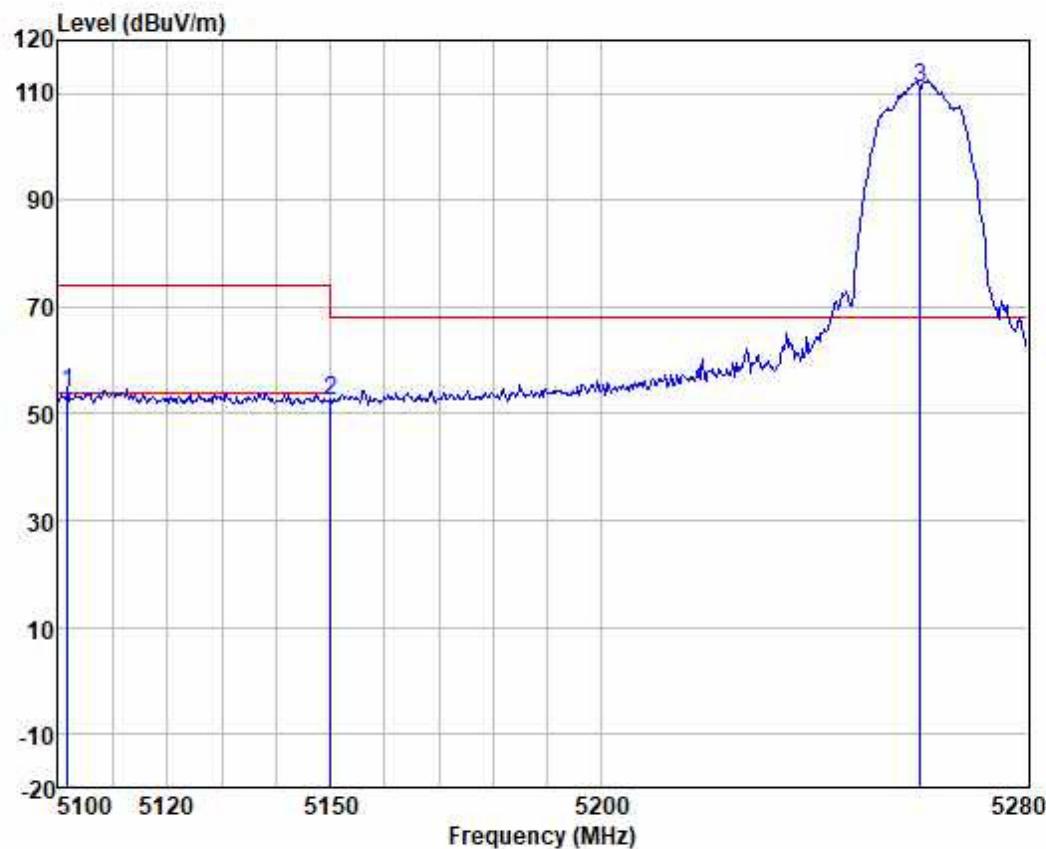
Freq	ReadAntenna		Cable		Preamp		Limit	Over	Over	Remark
	Level	Factor	Loss	Factor	Level	Line				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1 5132.119	47.76	33.84	4.95	37.24	49.31	74.00	-24.69	VERTICAL	peak	
2 5150.000	44.75	33.79	4.96	37.23	46.27	68.20	-21.93	VERTICAL	peak	
3 * 5260.000	98.78	33.38	5.03	37.20	99.99	68.20	31.79	VERTICAL	peak	



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



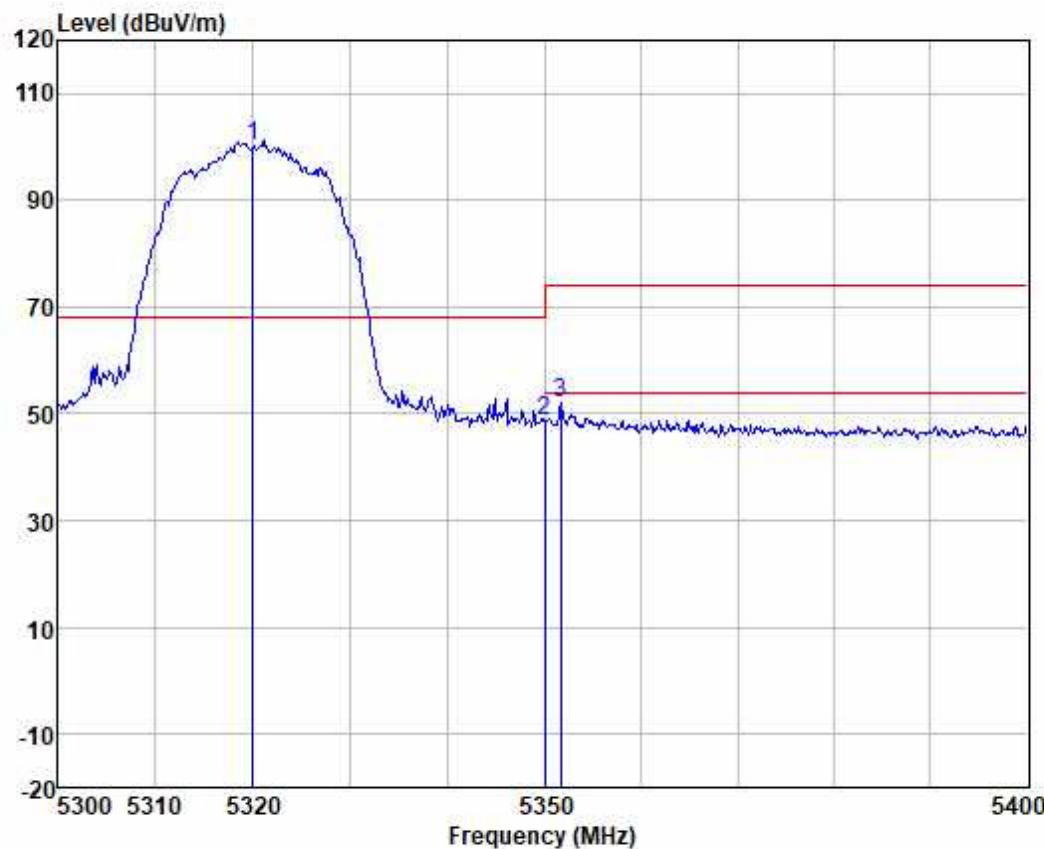
Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB	dB	dB
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV/m	dB	dB	dB
1 5101.769	52.27	33.92	4.94	37.25	53.88	74.00	74.00	-20.12	HORIZONTAL	peak
2 5150.000	51.00	33.79	4.96	37.23	52.52	68.20	68.20	-15.68	HORIZONTAL	peak
3 * 5260.000	109.88	33.38	5.03	37.20	111.09	68.20	68.20	42.89	HORIZONTAL	peak



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



Freq MHz	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Line dBuV/m	Over Limit dB	Over Line dB	Over Limit Pol/Phase	Remark
	dBuV	dB/m	dB	dB					
1 * 5320.000	99.07	33.11	5.08	37.19	100.07	68.20	31.87	VERTICAL	peak
2 5350.000	47.88	33.00	5.09	37.18	48.79	68.20	-19.41	VERTICAL	peak
3 5351.667	51.26	33.00	5.09	37.18	52.17	74.00	-21.83	VERTICAL	peak

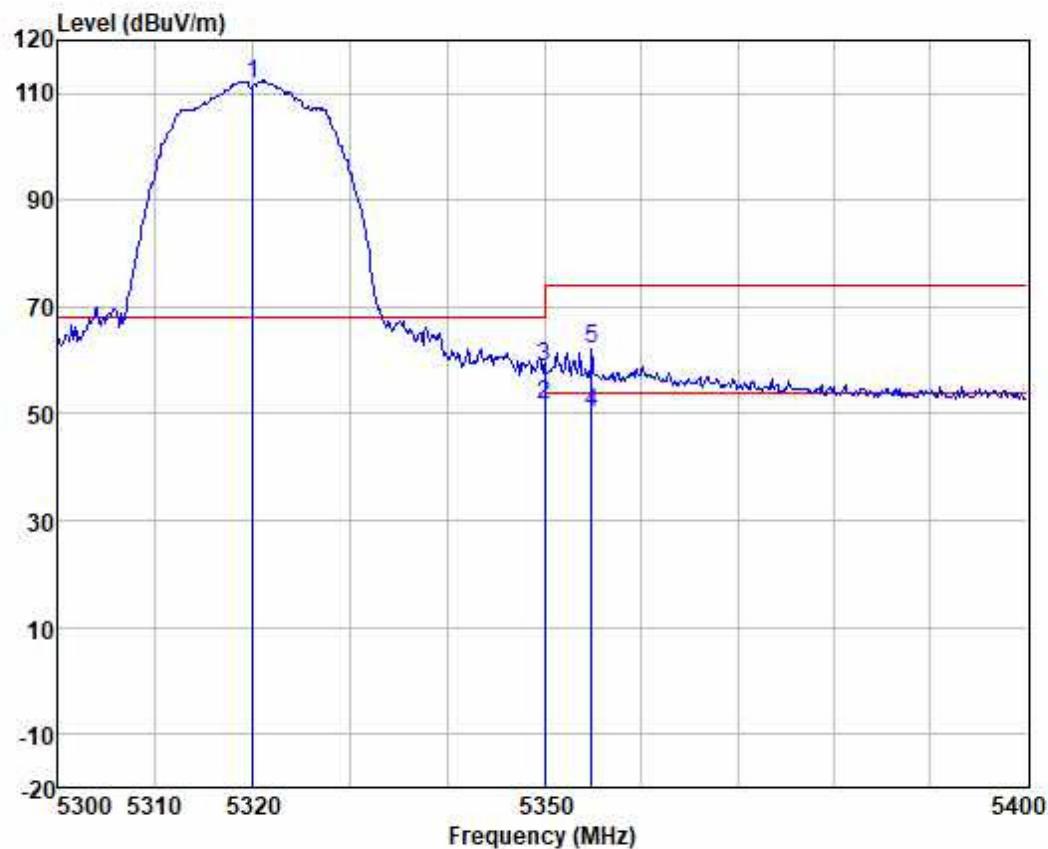
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No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 www.sgsgroup.com.cn  
t (86-20) 82155555 sgs.china@sgs.com

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



Freq	Read	Antenna	Cable	Preamp	Limit		Over	Remark
	Level	Factor	Loss	Factor	Line	Line	Limit	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 * 5320.000	110.76	33.11	5.08	37.19	111.76	68.20	43.56	HORIZONTAL peak
2 5350.000	50.68	33.00	5.09	37.18	51.59	54.00	-2.41	HORIZONTAL Average
3 5350.000	57.74	33.00	5.09	37.18	58.65	68.20	-9.55	HORIZONTAL peak
4 5354.869	49.29	32.95	5.10	37.18	50.16	54.00	-3.84	HORIZONTAL Average
5 5354.869	61.22	32.95	5.10	37.18	62.09	74.00	-11.91	HORIZONTAL peak

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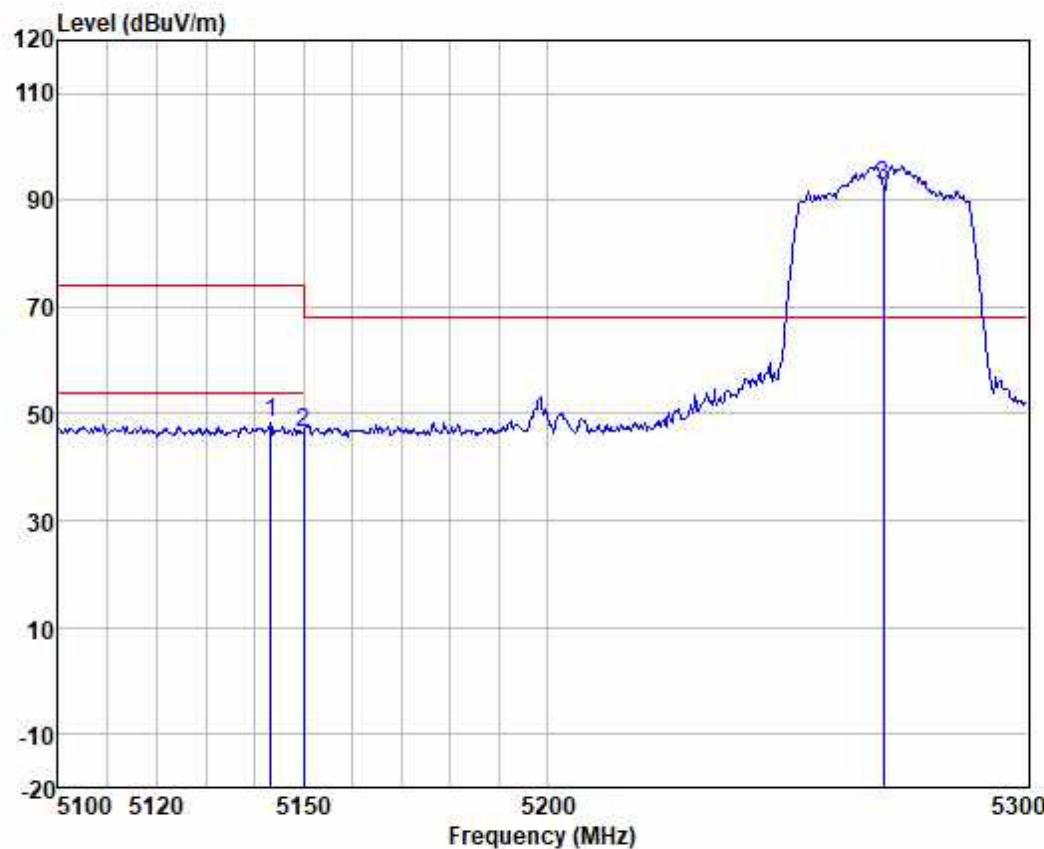


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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB	
1	5143.342	46.74	33.79	4.96	37.23	48.26	74.00	-25.74	VERTICAL	peak
2	5150.000	44.95	33.79	4.96	37.23	46.47	68.20	-21.73	VERTICAL	peak
3 *	5270.000	91.45	33.30	5.04	37.20	92.59	68.20	24.39	VERTICAL	peak

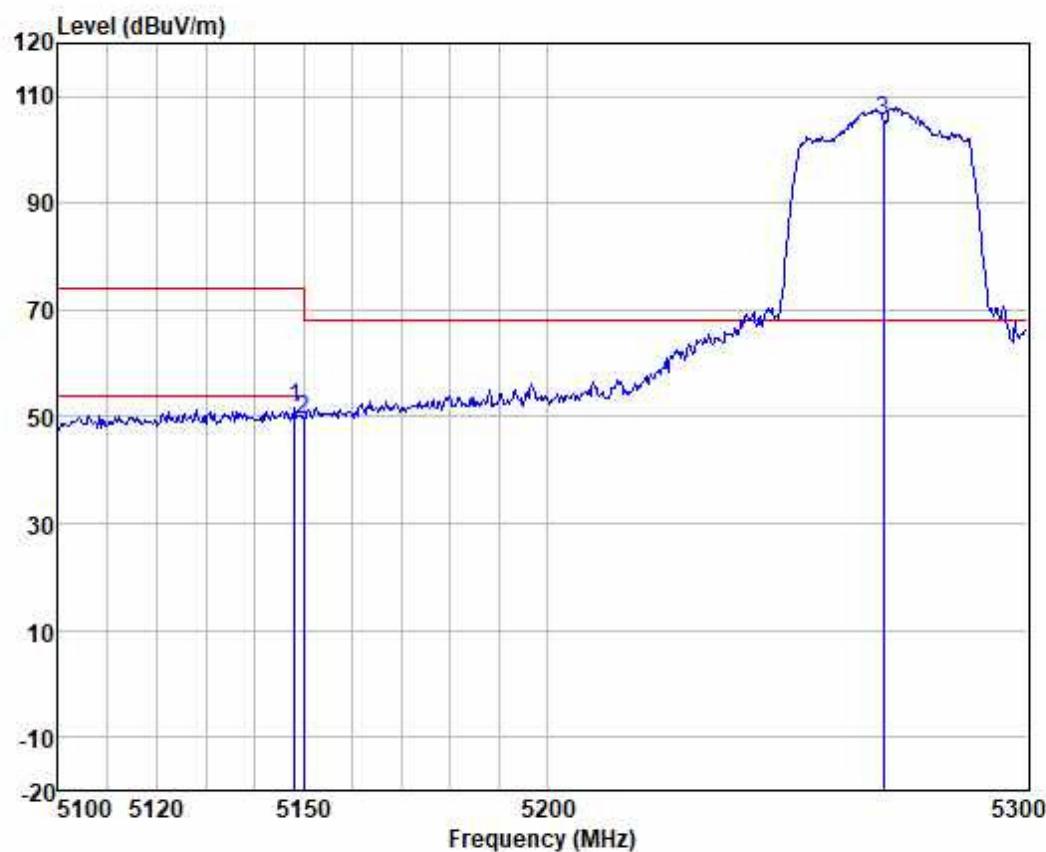
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1 5148.093	50.24	33.79	4.96	37.23	51.76	74.00	-22.24	HORIZONTAL	peak	
2 5150.000	48.09	33.79	4.96	37.23	49.61	68.20	-18.59	HORIZONTAL	peak	
3 * 5270.000	104.26	33.30	5.04	37.20	105.40	68.20	37.20	HORIZONTAL	peak	

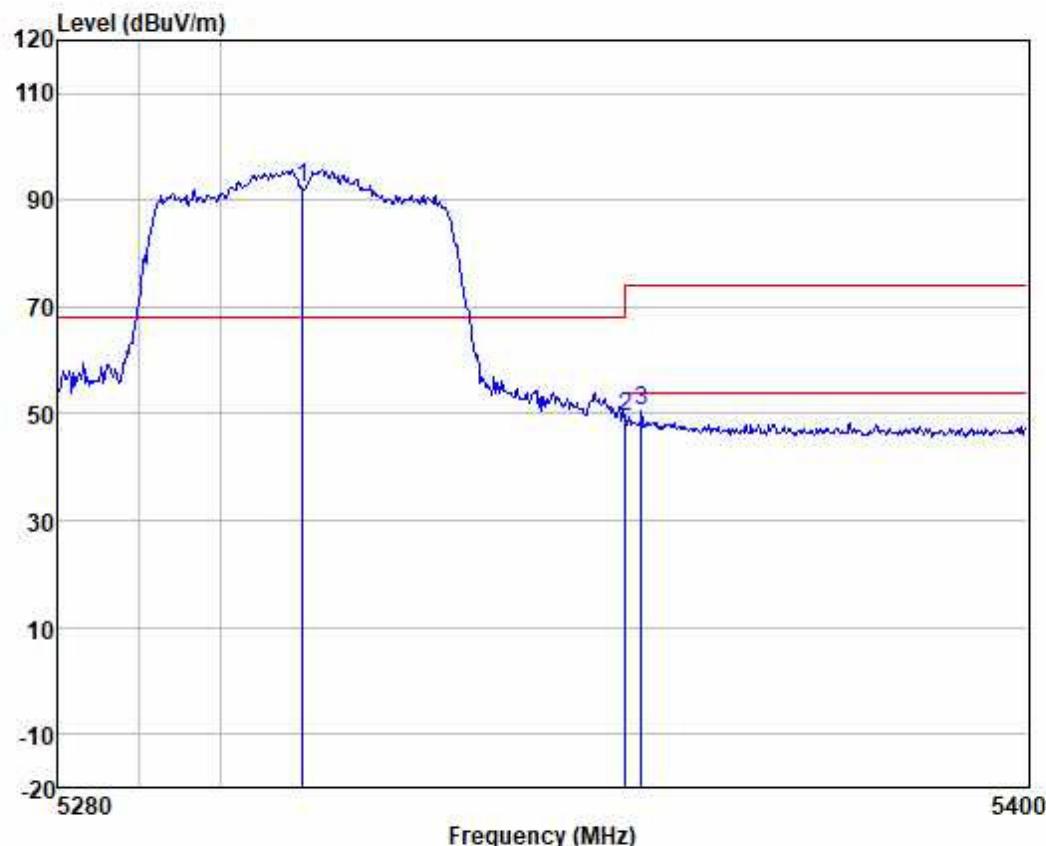
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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



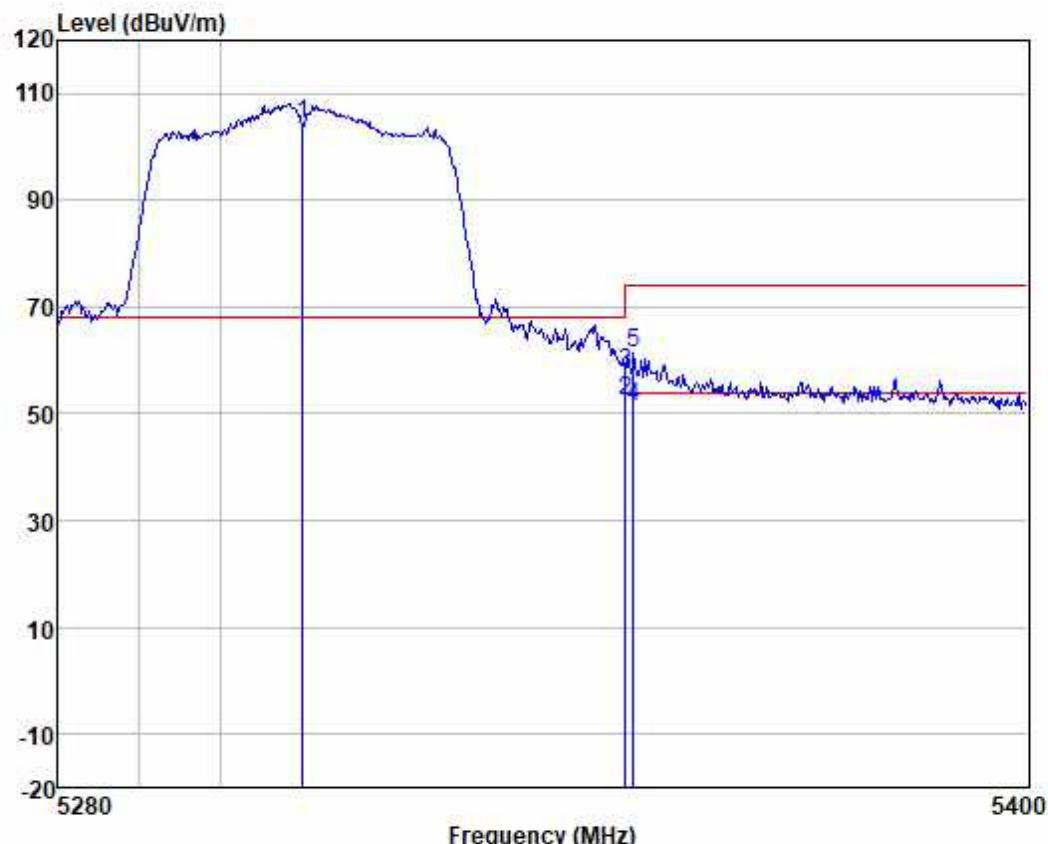
Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Over Line Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB	
1 * 5310.000	91.49	33.11	5.08	37.19	92.49	68.20	24.29	VERTICAL	peak	
2 5350.000	48.45	33.00	5.09	37.18	49.36	68.20	-18.84	VERTICAL	peak	
3 5351.917	49.64	33.00	5.09	37.18	50.55	74.00	-23.45	VERTICAL	peak	



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



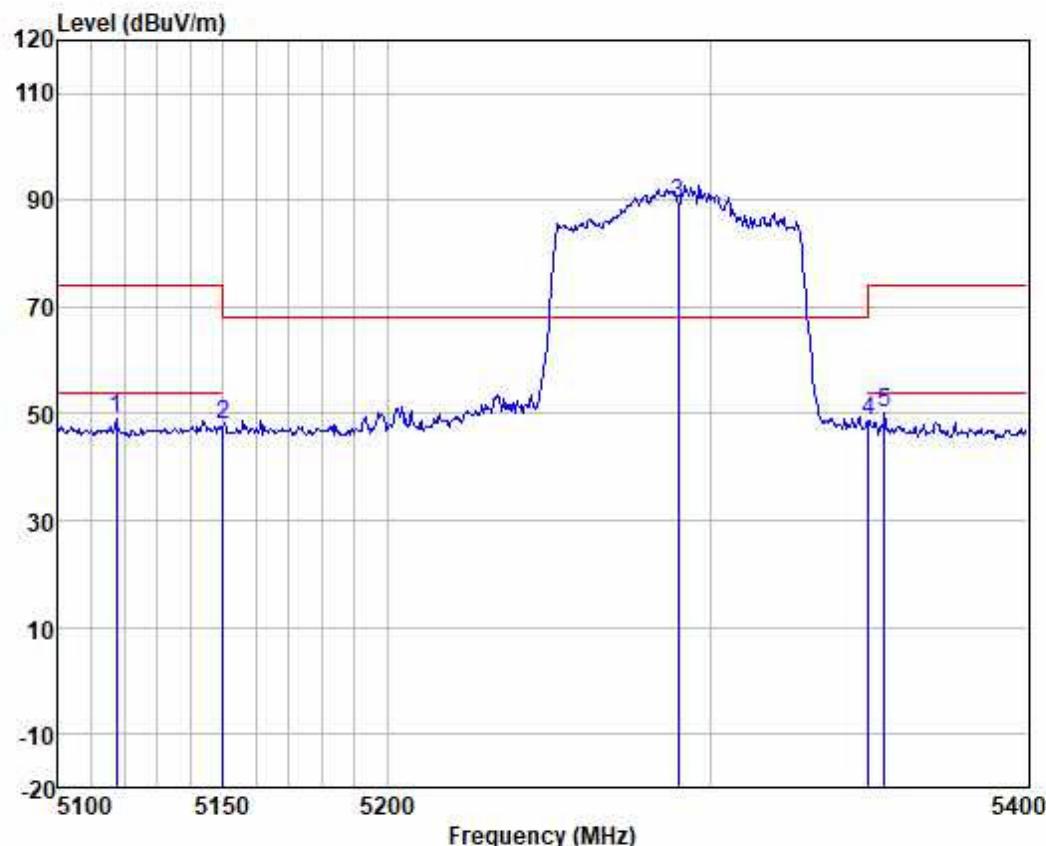
Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Line	Over Limit Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB	
1 * 5310.000	103.36	33.11	5.08	37.19	104.36	68.20	36.16	HORIZONTAL	peak	
2 5350.000	51.35	33.00	5.09	37.18	52.26	54.00	-1.74	HORIZONTAL	Average	
3 5350.000	56.90	33.00	5.09	37.18	57.81	68.20	-10.39	HORIZONTAL	peak	
4 5350.955	50.32	33.00	5.09	37.18	51.23	54.00	-2.77	HORIZONTAL	Average	
5 5350.955	60.44	33.00	5.09	37.18	61.35	74.00	-12.65	HORIZONTAL	peak	



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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5117.521	47.32	33.88	4.95	37.25	48.90	74.00	-25.10	VERTICAL	peak
2	5150.000	46.26	33.79	4.96	37.23	47.78	68.20	-20.42	VERTICAL	peak
3	* 5290.000	88.16	33.23	5.05	37.20	89.24	68.20	21.04	VERTICAL	peak
4	5350.000	47.71	33.00	5.09	37.18	48.62	68.20	-19.58	VERTICAL	peak
5	5354.818	49.14	32.95	5.10	37.18	50.01	74.00	-23.99	VERTICAL	peak

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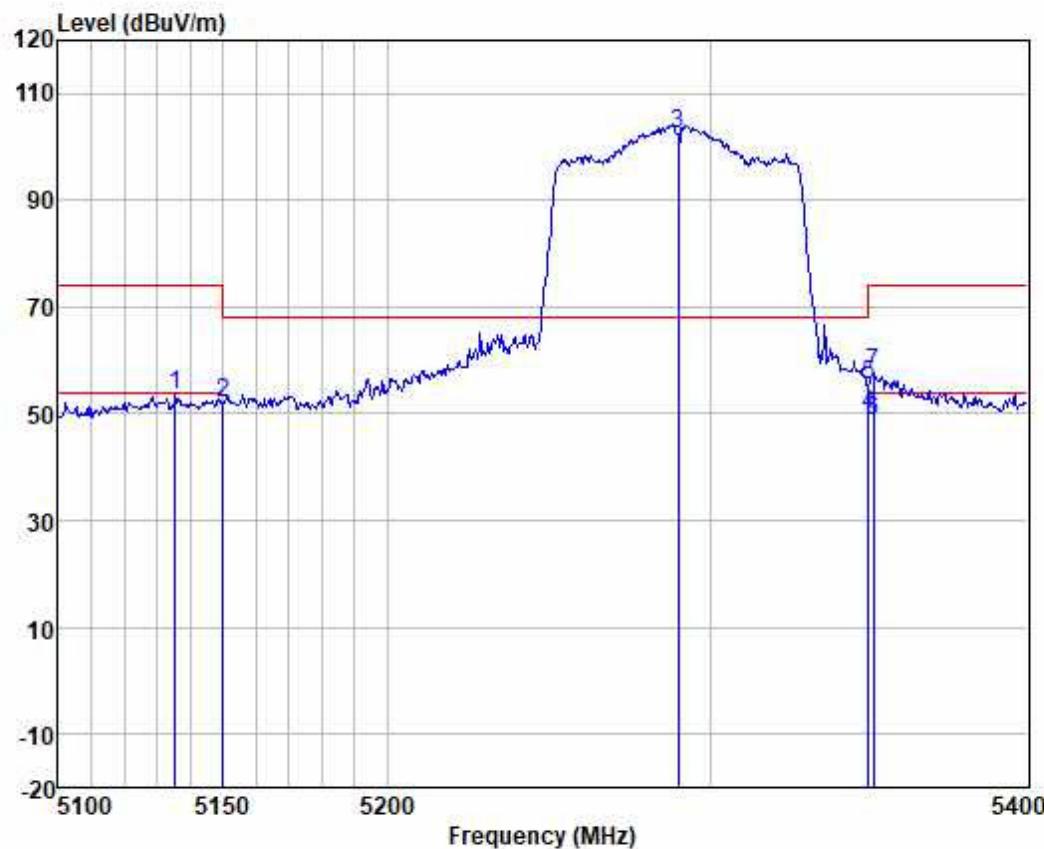
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz



Freq	Read	Antenna	Cable	Preamp	Limit		Over	Remark
	Freq	Level	Factor	Loss	Factor	Line	Line	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	5135.395	51.90	33.84	4.95	37.24	53.45	74.00	-20.55 HORIZONTAL peak
2	5150.000	50.62	33.79	4.96	37.23	52.14	68.20	-16.06 HORIZONTAL peak
3 *	5290.000	101.48	33.23	5.05	37.20	102.56	68.20	34.36 HORIZONTAL peak
4	5350.000	48.94	33.00	5.09	37.18	49.85	54.00	-4.15 HORIZONTAL Average
5	5350.000	54.63	33.00	5.09	37.18	55.54	68.20	-12.66 HORIZONTAL peak
6	5351.452	47.74	33.00	5.09	37.18	48.65	54.00	-5.35 HORIZONTAL Average
7	5351.452	56.66	33.00	5.09	37.18	57.57	74.00	-16.43 HORIZONTAL peak

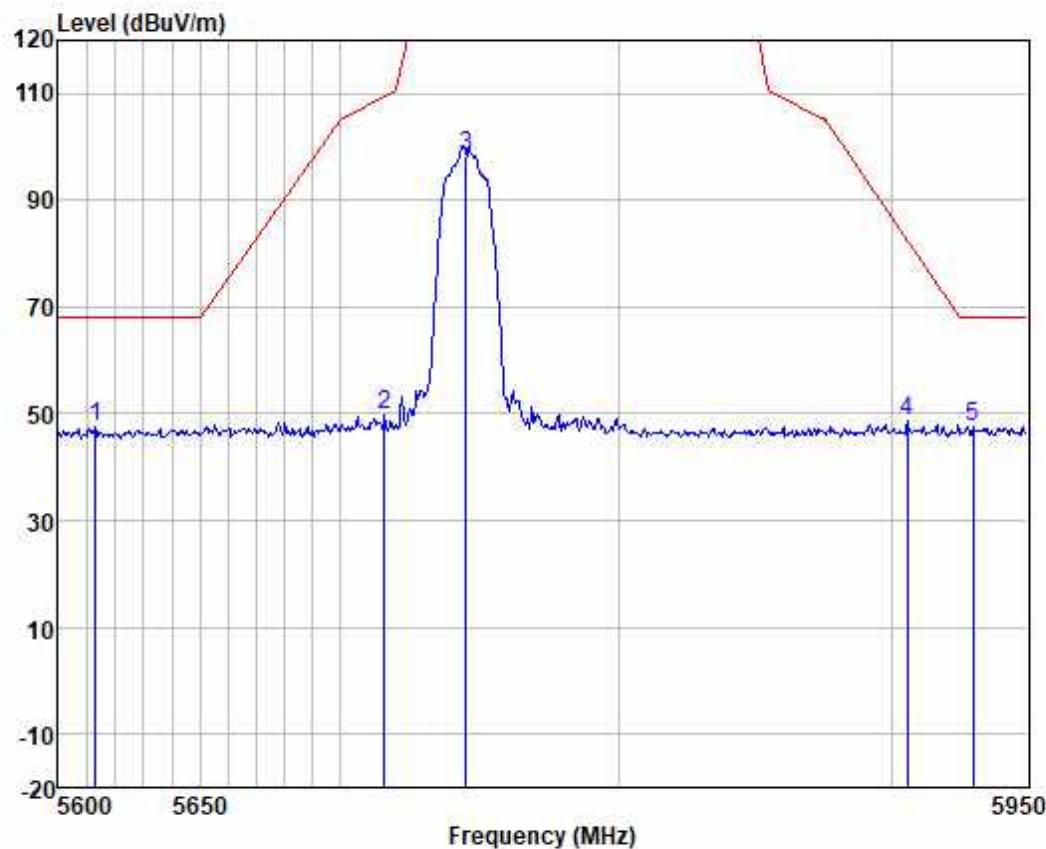
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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB	
1	5613.256	46.85	32.63	5.21	37.14	47.55	68.20	-20.65	VERTICAL	peak
2	5715.587	48.98	32.65	5.27	37.13	49.77	109.57	-59.80	VERTICAL	peak
3	5745.000	97.68	32.65	5.30	37.13	98.50	125.20	-26.70	VERTICAL	peak
4	5905.797	47.55	32.69	5.40	37.11	48.53	82.40	-33.87	VERTICAL	peak
5	5930.194	46.72	32.69	5.41	37.11	47.71	68.20	-20.49	VERTICAL	peak

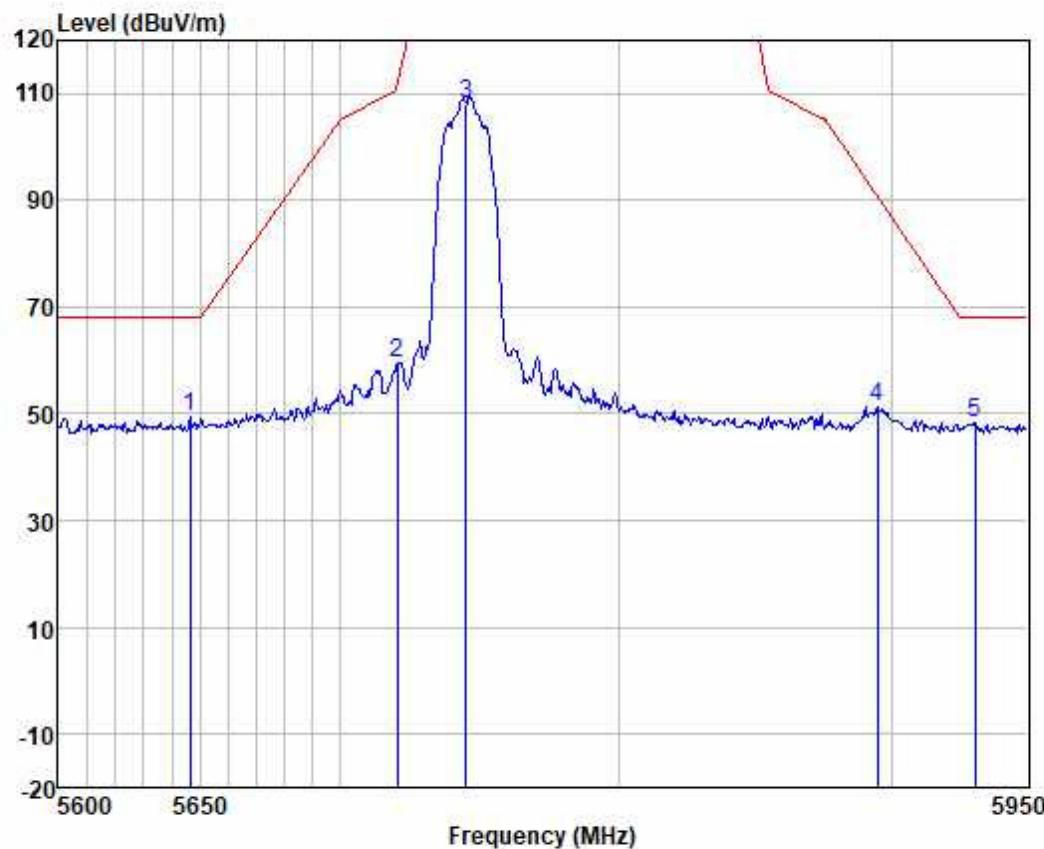


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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB	
1	5646.363	48.73	32.63	5.23	37.14	49.45	68.20	-18.75	HORIZONTAL	peak
2	5720.094	58.71	32.65	5.27	37.13	59.50	111.01	-51.51	HORIZONTAL	peak
3	5745.000	107.41	32.65	5.30	37.13	108.23	125.20	-16.97	HORIZONTAL	peak
4	5894.708	50.27	32.69	5.40	37.11	51.25	90.62	-39.37	HORIZONTAL	peak
5	5930.913	47.20	32.69	5.41	37.11	48.19	68.20	-20.01	HORIZONTAL	peak

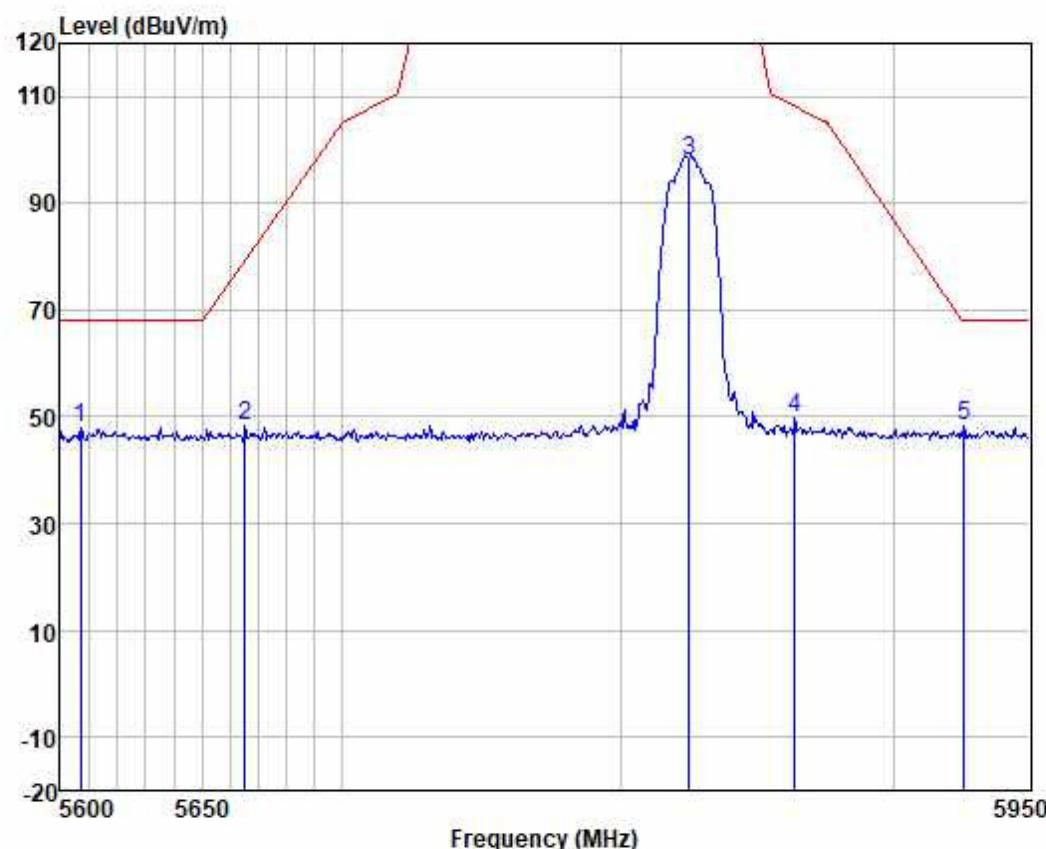
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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	Level	Antenna Factor	Loss	dB	dB	dBuV/m	dBuV/m	dB	
1	5607.134	47.26	32.62	5.20	37.14	47.94	68.20	-20.26	VERTICAL	peak
2	5665.221	47.61	32.64	5.24	37.14	48.35	79.50	-31.15	VERTICAL	peak
3	5825.000	97.20	32.67	5.36	37.12	98.11	125.20	-27.09	VERTICAL	peak
4	5863.699	48.83	32.68	5.38	37.11	49.78	108.36	-58.58	VERTICAL	peak
5	5926.240	47.37	32.69	5.41	37.11	48.36	68.20	-19.84	VERTICAL	peak

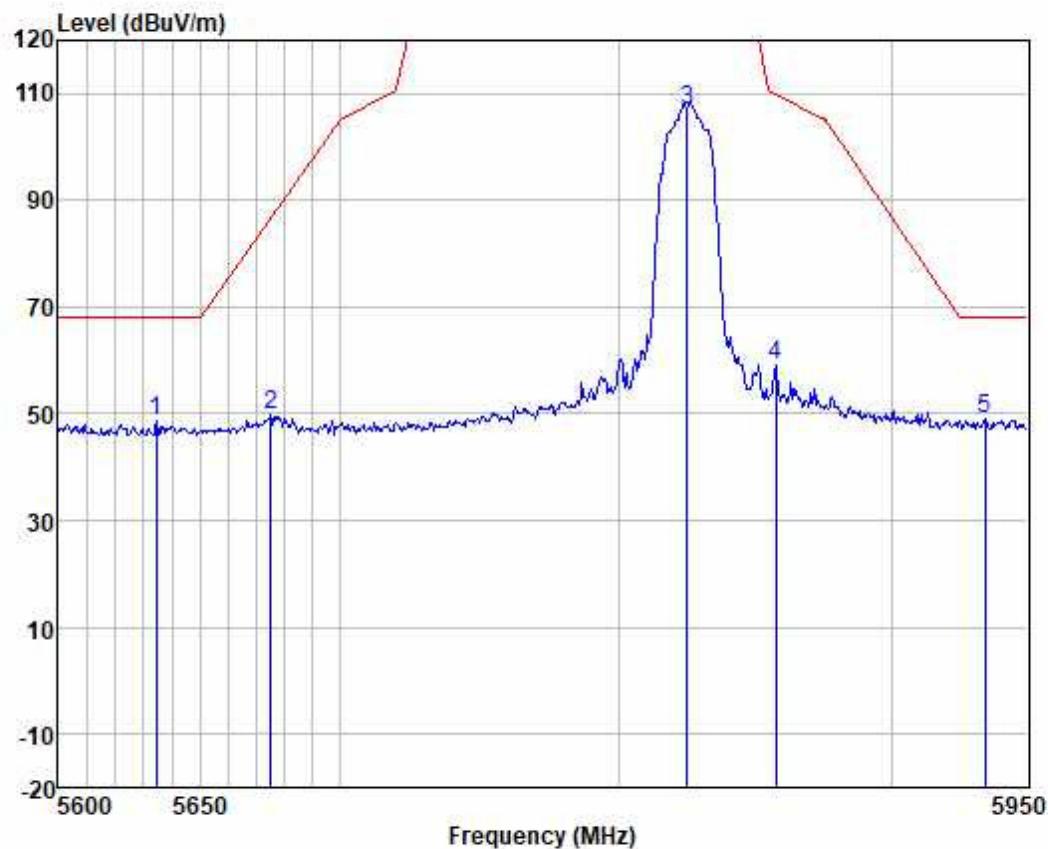


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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dB	dBuV/m	dBuV/m	
1	5634.395	47.89	32.63	5.22	37.14	48.60	68.20	-19.60	HORIZONTAL	peak
2	5675.190	48.88	32.64	5.25	37.13	49.64	86.88	-37.24	HORIZONTAL	peak
3	5825.000	106.09	32.67	5.36	37.12	107.00	125.20	-18.20	HORIZONTAL	peak
4	5857.304	58.04	32.68	5.38	37.11	58.99	110.15	-51.16	HORIZONTAL	peak
5	5934.509	48.06	32.69	5.41	37.11	49.05	68.20	-19.15	HORIZONTAL	peak

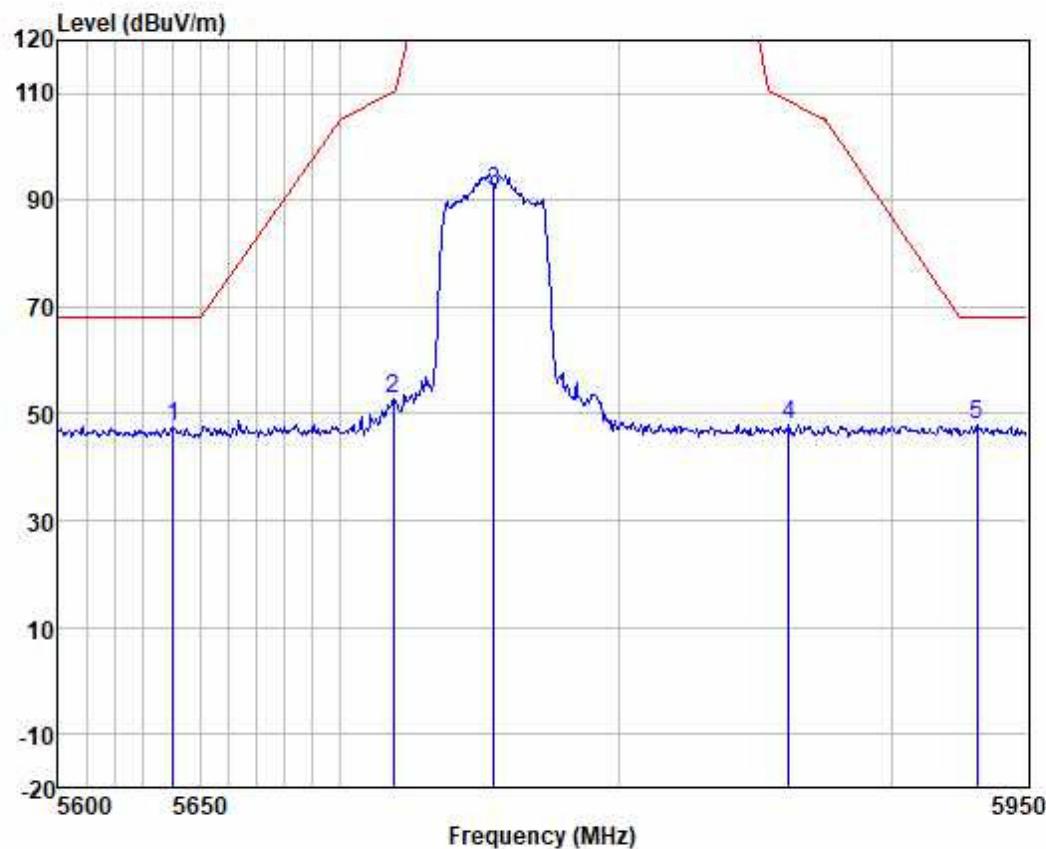
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t (86-20) 82155555 sgs.china@sgs.com

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB	
1	5640.546	46.70	32.63	5.23	37.14	47.42	68.20	-20.78	VERTICAL	peak
2	5718.707	51.95	32.65	5.27	37.13	52.74	110.44	-57.70	VERTICAL	peak
3	5755.000	90.96	32.65	5.30	37.12	91.79	125.20	-33.41	VERTICAL	peak
4	5862.277	46.99	32.68	5.38	37.11	47.94	108.76	-60.82	VERTICAL	peak
5	5931.632	46.78	32.69	5.41	37.11	47.77	68.20	-20.43	VERTICAL	peak

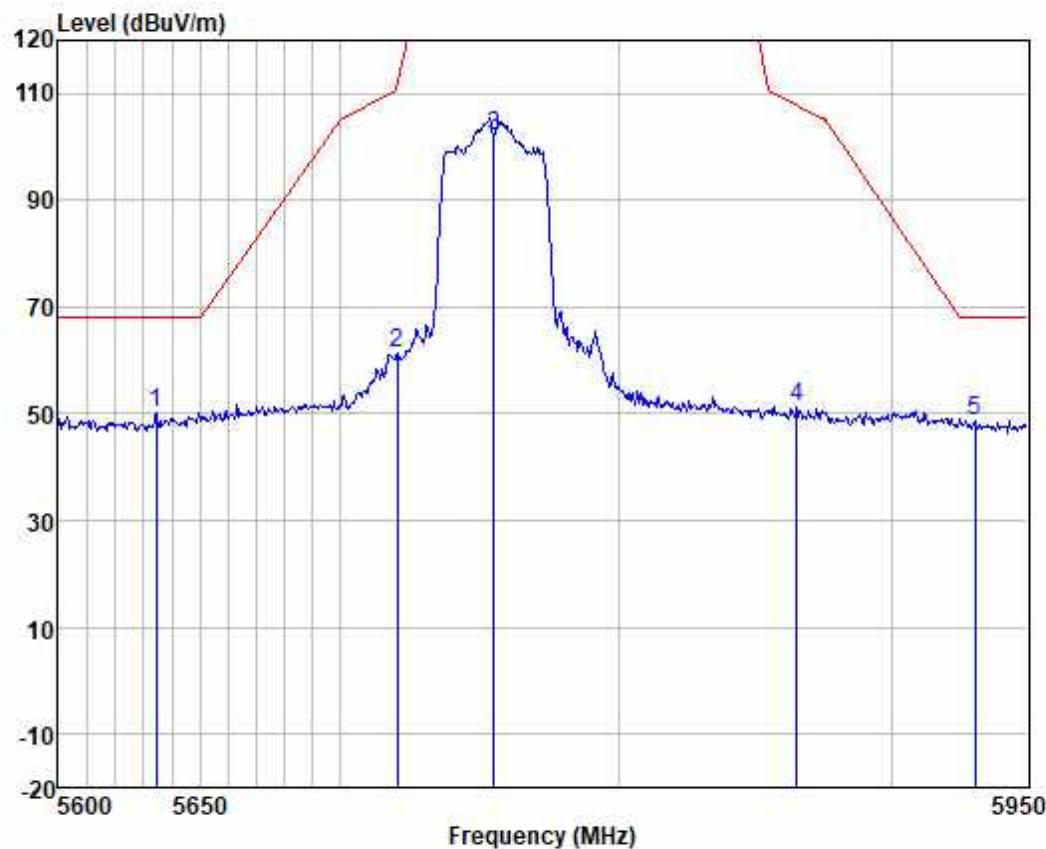
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB	
1	5634.395	49.51	32.63	5.22	37.14	50.22	68.20	-17.98	HORIZONTAL	peak
2	5720.094	60.47	32.65	5.27	37.13	61.26	111.01	-49.75	HORIZONTAL	peak
3	5755.000	101.17	32.65	5.30	37.12	102.00	125.20	-23.20	HORIZONTAL	peak
4	5865.122	50.50	32.68	5.38	37.11	51.45	107.96	-56.51	HORIZONTAL	peak
5	5930.913	47.82	32.69	5.41	37.11	48.81	68.20	-19.39	HORIZONTAL	peak

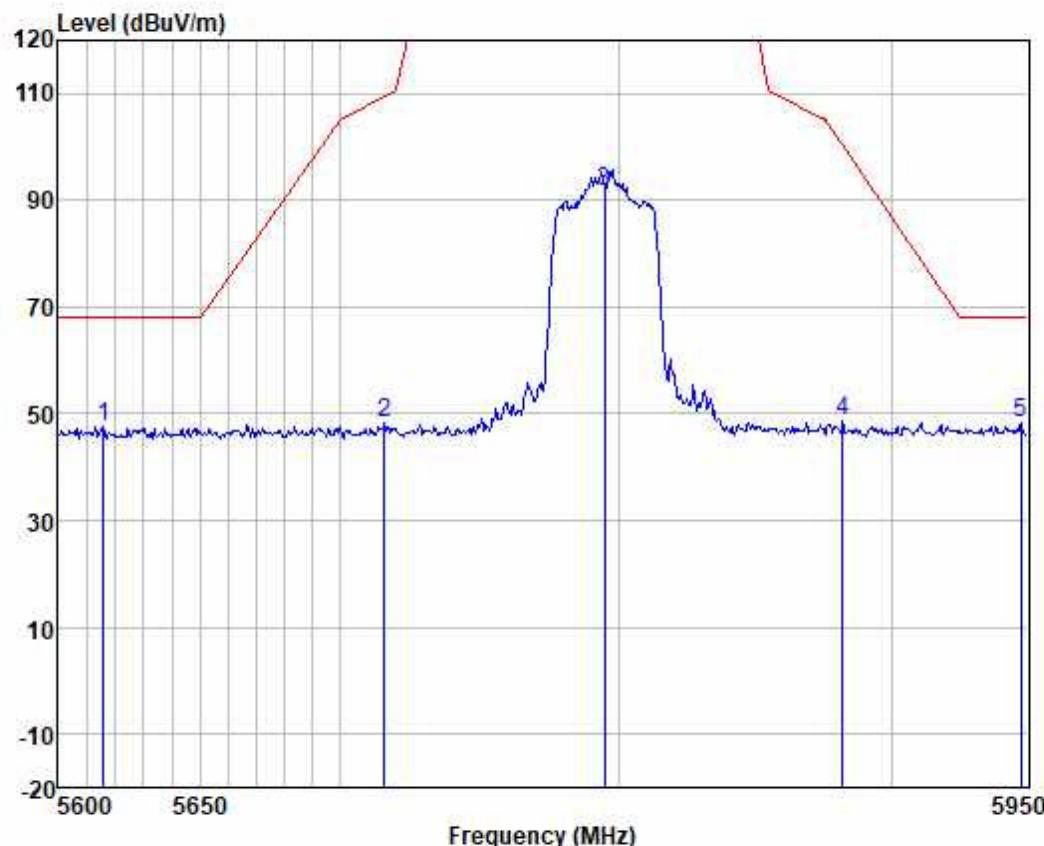


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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dB	dBuV/m	dBuV/m	
1	5615.979	46.84	32.63	5.21	37.14	47.54	68.20	-20.66	VERTICAL	peak
2	5715.587	47.42	32.65	5.27	37.13	48.21	109.57	-61.36	VERTICAL	peak
3	5795.000	90.60	32.67	5.34	37.12	91.49	125.20	-33.71	VERTICAL	peak
4	5881.857	47.80	32.68	5.39	37.11	48.76	100.17	-51.41	VERTICAL	peak
5	5947.836	47.23	32.69	5.42	37.10	48.24	68.20	-19.96	VERTICAL	peak

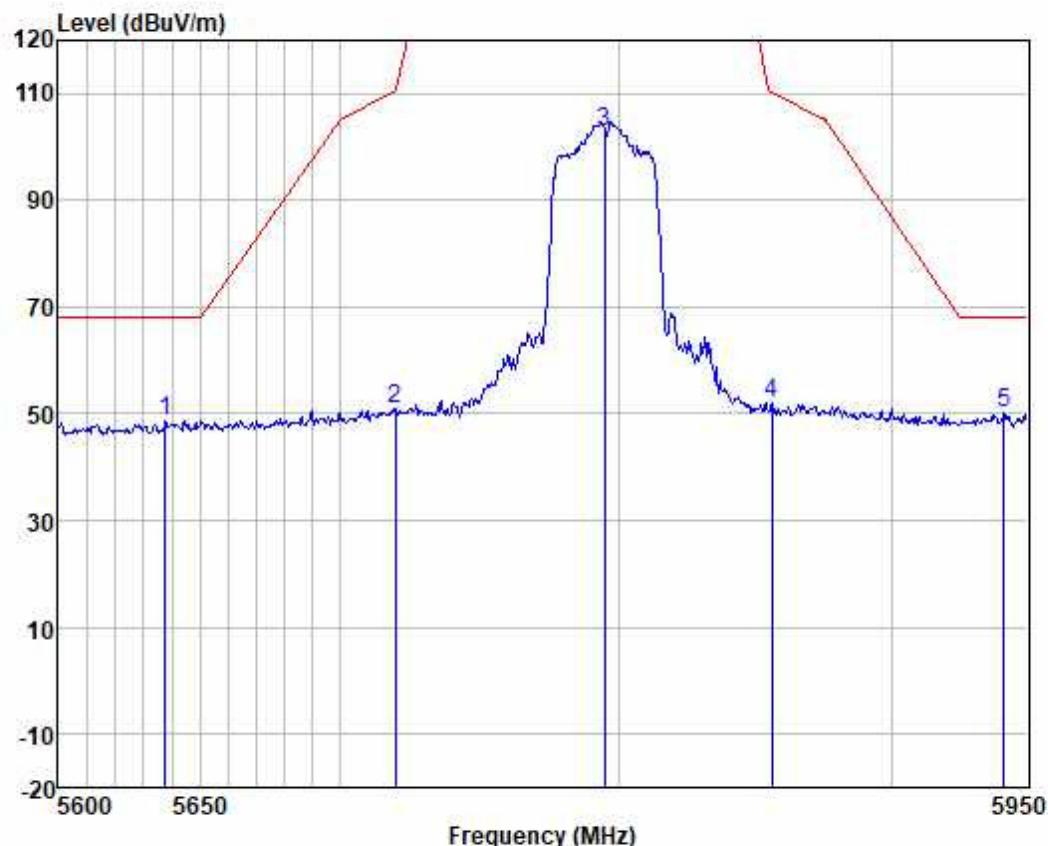


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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Over Line Pol/Phase	Remark
	Freq	Level	Antenna	Loss	Preamp	Level				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1 5637.812	48.11	32.63	5.22	37.14	48.82	68.20	-19.38	HORIZONTAL	peak	
2 5719.400	50.21	32.65	5.27	37.13	51.00	110.63	-59.63	HORIZONTAL	peak	
3 5795.000	102.07	32.67	5.34	37.12	102.96	125.20	-22.24	HORIZONTAL	peak	
4 5855.884	50.94	32.68	5.37	37.11	51.88	110.55	-58.67	HORIZONTAL	peak	
5 5941.709	49.26	32.69	5.42	37.10	50.27	68.20	-17.93	HORIZONTAL	peak	

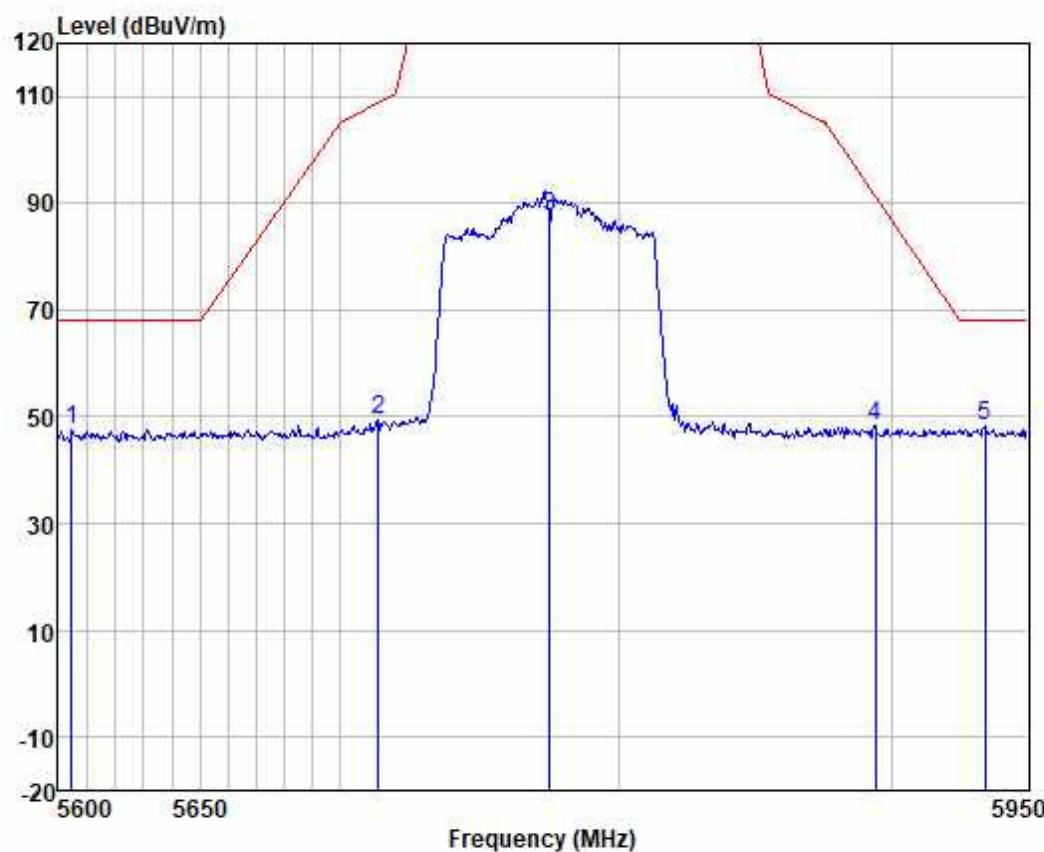


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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz



Freq	Read	Antenna	Cable	Preamp	Limit		Over	Remark
	Freq	Level	Factor	Loss	Factor	Line	Line	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	5604.755	46.86	32.62	5.20	37.14	47.54	68.20	-20.66 VERTICAL peak
2	5713.509	48.48	32.65	5.27	37.13	49.27	108.98	-59.71 VERTICAL peak
3	5775.000	86.53	32.66	5.33	37.12	87.40	125.20	-37.80 VERTICAL peak
4	5893.994	47.48	32.69	5.40	37.11	48.46	91.15	-42.69 VERTICAL peak
5	5934.509	47.16	32.69	5.41	37.11	48.15	68.20	-20.05 VERTICAL peak

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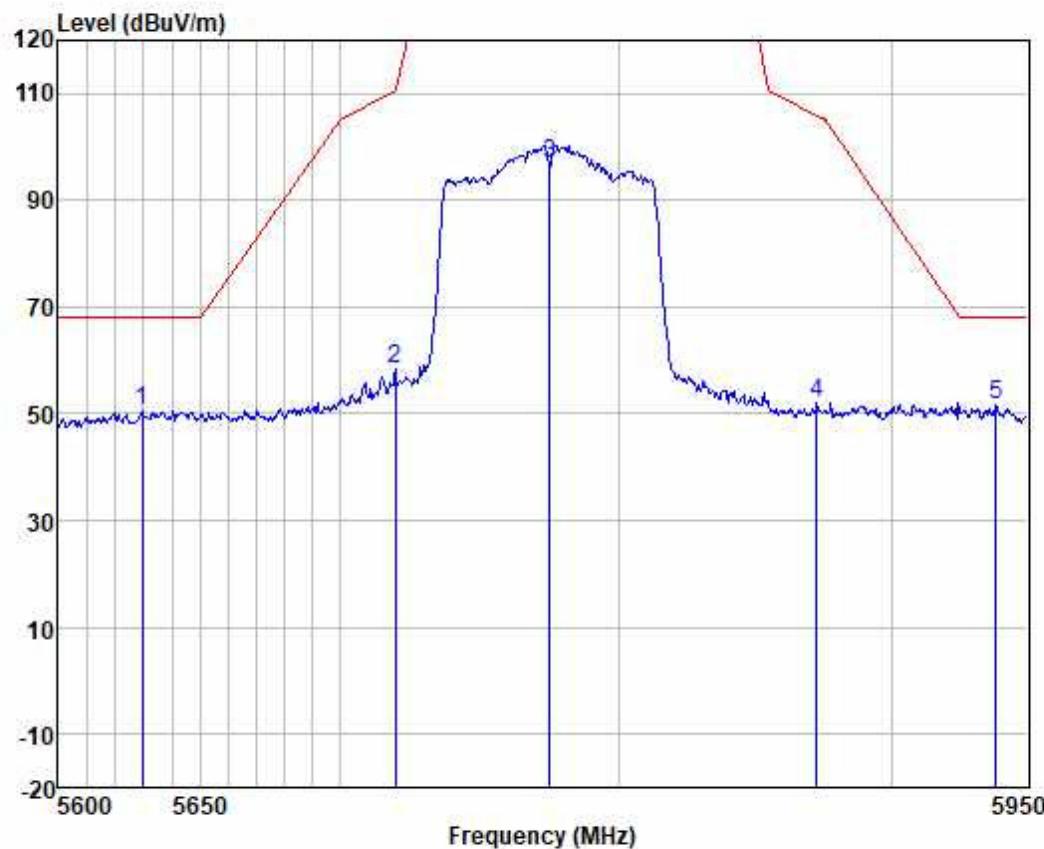
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Over Line Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level				
		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5629.614	50.03	32.63	5.22	37.14	50.74	68.20	-17.46	HORIZONTAL	peak
2	5719.400	57.71	32.65	5.27	37.13	58.50	110.63	-52.13	HORIZONTAL	peak
3	5775.000	95.82	32.66	5.33	37.12	96.69	125.20	-28.51	HORIZONTAL	peak
4	5872.237	51.21	32.68	5.38	37.11	52.16	105.97	-53.81	HORIZONTAL	peak
5	5938.828	50.66	32.69	5.41	37.10	51.66	68.20	-16.54	HORIZONTAL	peak

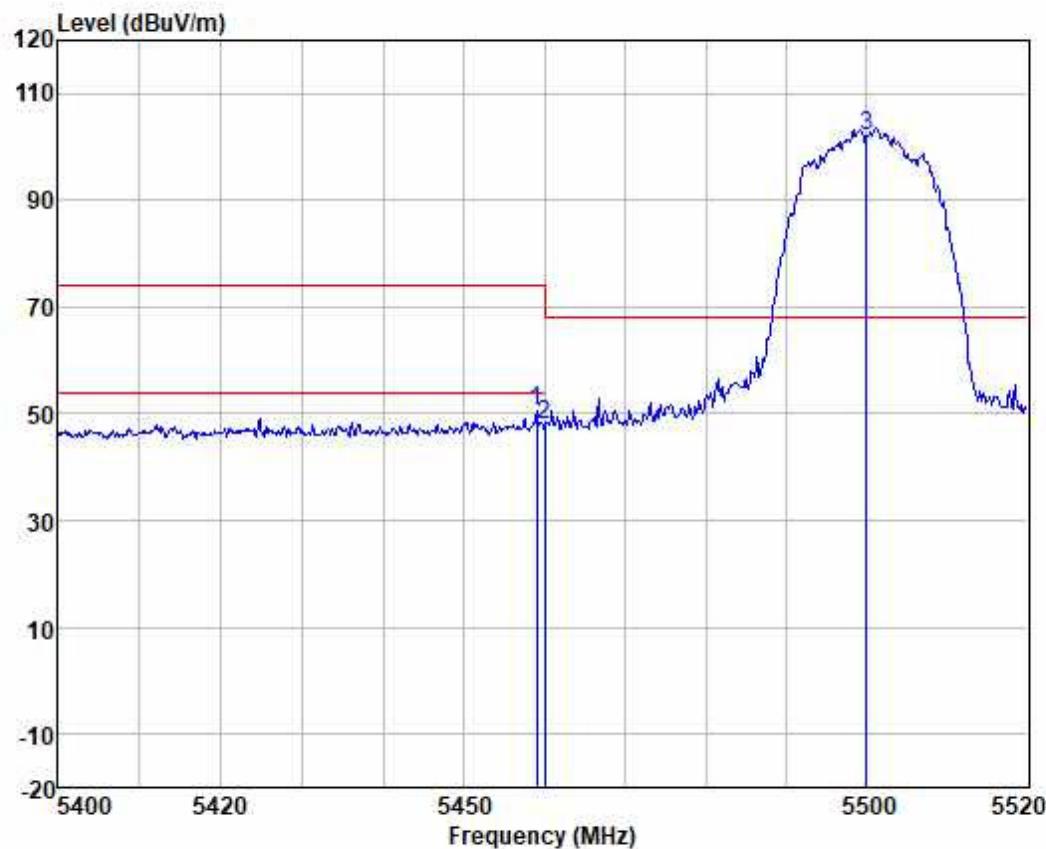
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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



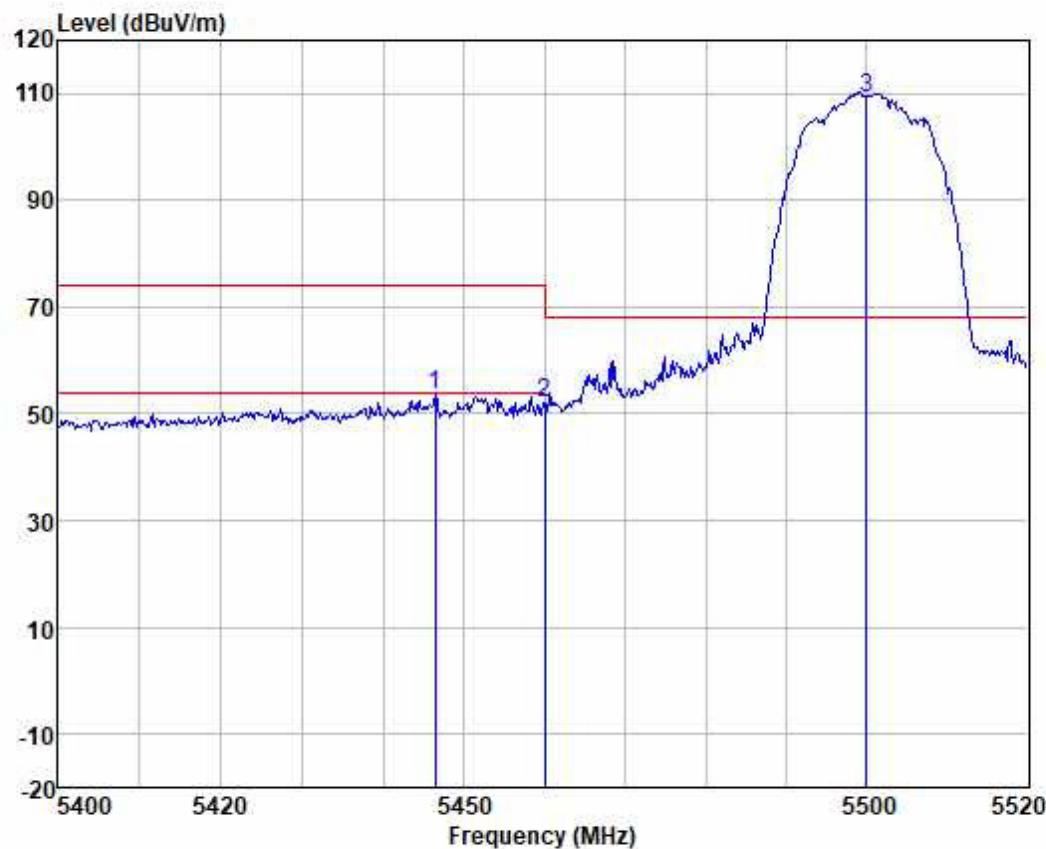
Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1 5458.950	49.88	32.71	5.14	37.16	50.57	74.00	-23.43	VERTICAL	peak	
2 5460.000	47.14	32.71	5.14	37.16	47.83	68.20	-20.37	VERTICAL	peak	
3 * 5500.000	101.42	32.61	5.16	37.16	102.03	68.20	33.83	VERTICAL	peak	



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



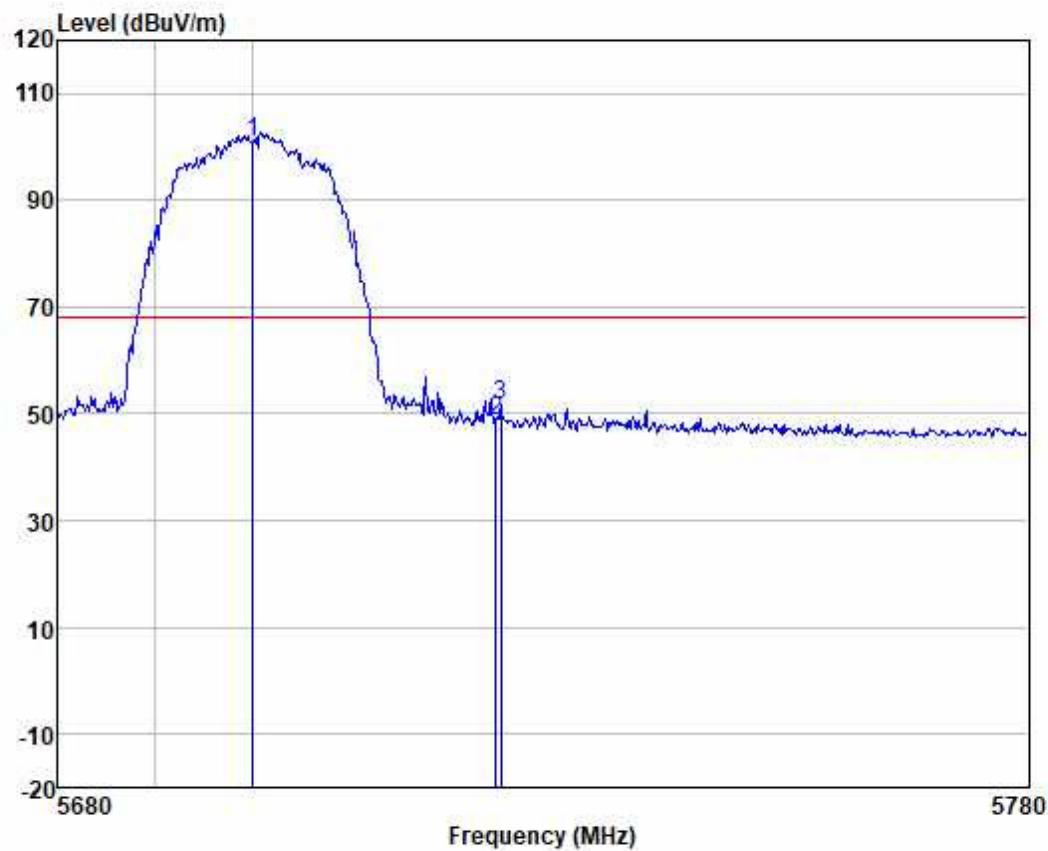
Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB	
1	5446.367	52.67	32.74	5.14	37.16	53.39	74.00	-20.61	HORIZONTAL	peak
2	5460.000	51.33	32.71	5.14	37.16	52.02	68.20	-16.18	HORIZONTAL	peak
3 *	5500.000	108.62	32.61	5.16	37.16	109.23	68.20	41.03	HORIZONTAL	peak



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



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB	dB	dB
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV/m	dB	dB	dB
1 * 5700.000	100.15	32.64	5.26	37.13	100.92	68.20	32.72	VERTICAL	peak	
2 5725.000	47.77	32.65	5.29	37.13	48.58	68.20	-19.62	VERTICAL	peak	
3 5725.483	50.94	32.65	5.29	37.13	51.75	68.20	-16.45	VERTICAL	peak	

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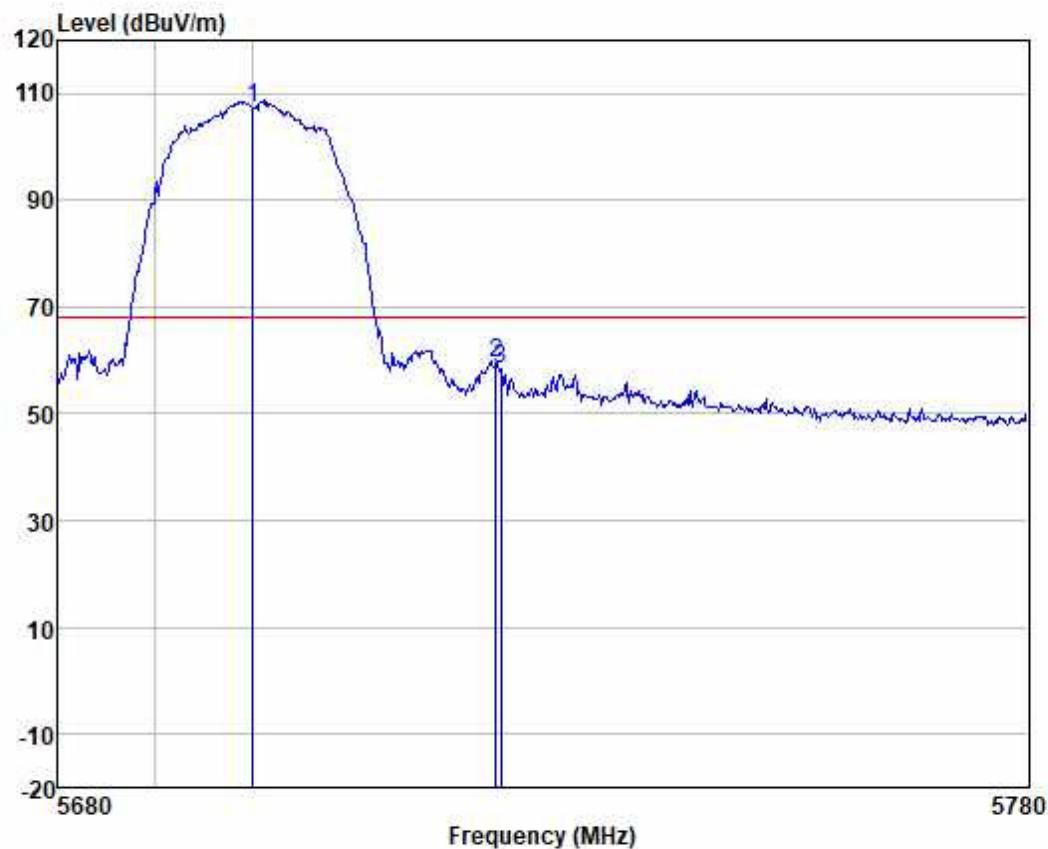
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



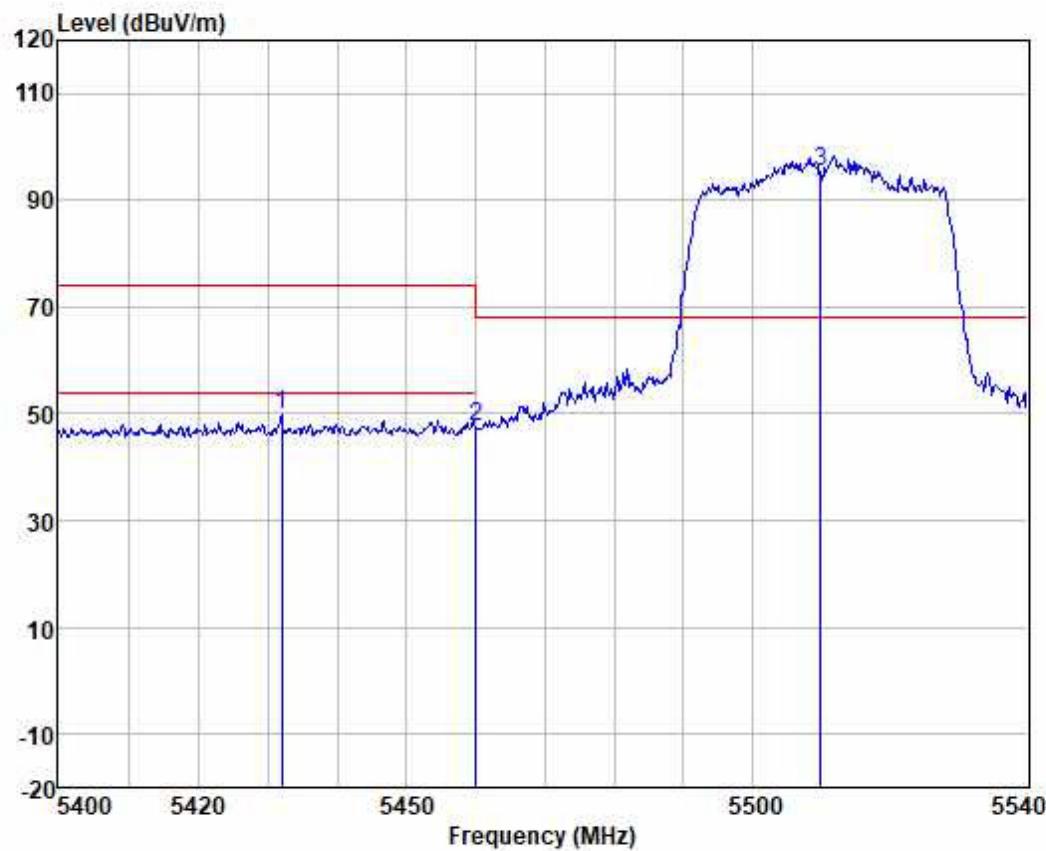
Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss Factor	dB	dBuV/m	dBuV/m	dB	
1 * 5700.000	106.44	32.64	5.26	37.13	107.21	68.20	39.01	HORIZONTAL	peak
2 5725.000	58.58	32.65	5.29	37.13	59.39	68.20	-8.81	HORIZONTAL	peak
3 5725.483	57.48	32.65	5.29	37.13	58.29	68.20	-9.91	HORIZONTAL	peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



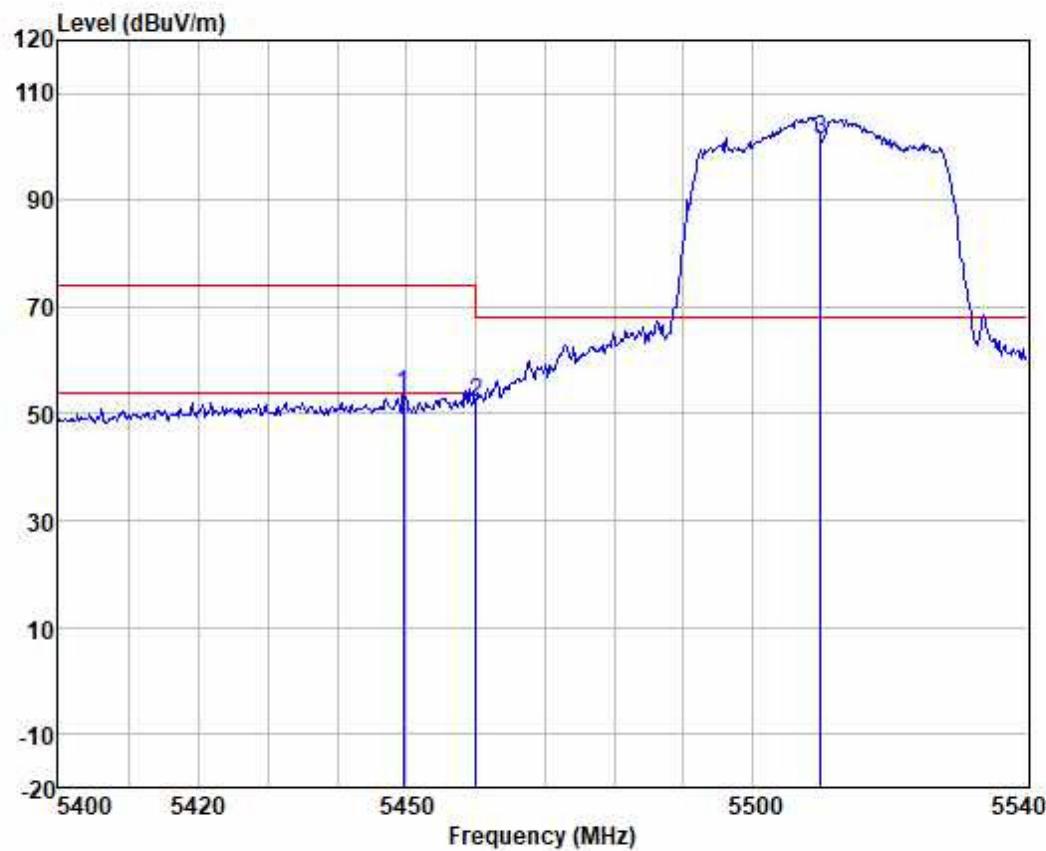
Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Over Line Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB	dB	dB
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB
1 5432.022	48.93	32.78	5.13	37.17	49.67	74.00	-24.33	VERTICAL	peak	
2 5460.000	46.75	32.71	5.14	37.16	47.44	68.20	-20.76	VERTICAL	peak	
3 * 5510.000	94.57	32.61	5.16	37.16	95.18	68.20	26.98	VERTICAL	peak	



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



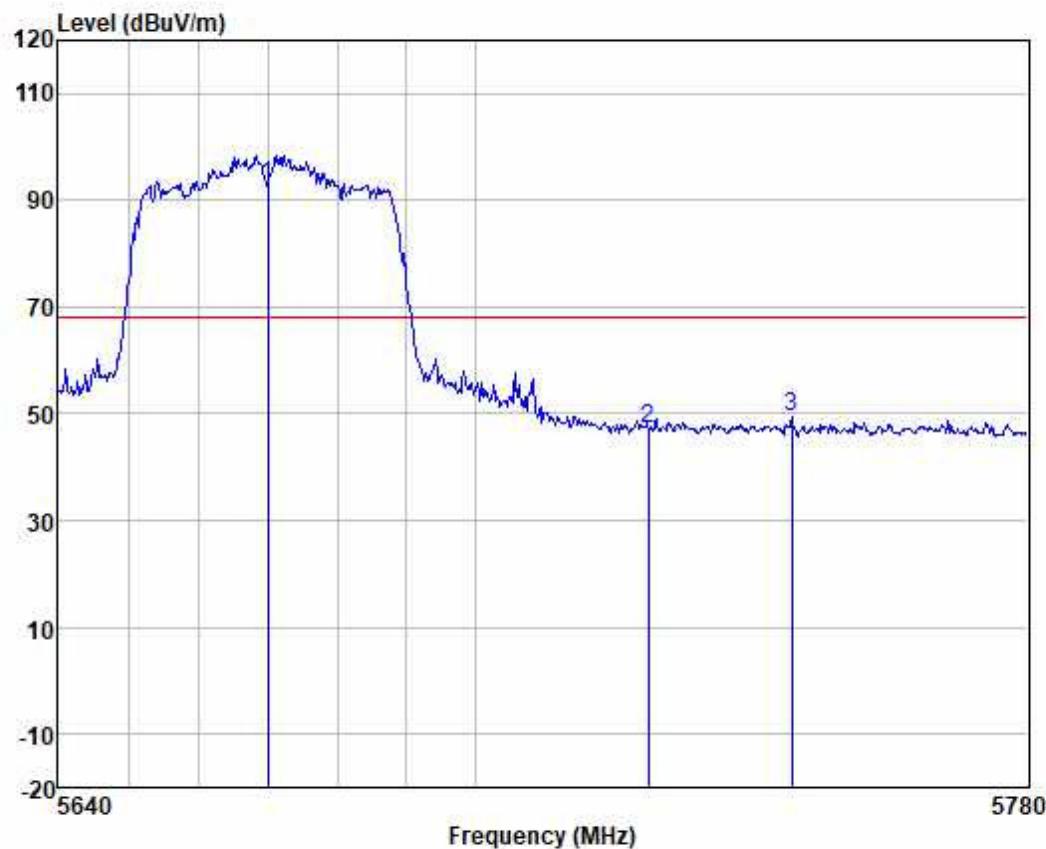
Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Over Line Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB	dB	dB
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB
1 5449.430	53.03	32.71	5.14	37.16	53.72	74.00	-20.28	HORIZONTAL	peak	
2 5460.000	51.50	32.71	5.14	37.16	52.19	68.20	-16.01	HORIZONTAL	peak	
3 * 5510.000	100.91	32.61	5.16	37.16	101.52	68.20	33.32	HORIZONTAL	peak	



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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dB	dBuV/m	dBuV/m	dB
1 * 5670.000	92.17	32.64	5.24	37.13	92.92	68.20	24.72	VERTICAL	peak	
2 5725.000	46.21	32.65	5.29	37.13	47.02	68.20	-21.18	VERTICAL	peak	
3 5745.805	48.50	32.65	5.30	37.13	49.32	68.20	-18.88	VERTICAL	peak	

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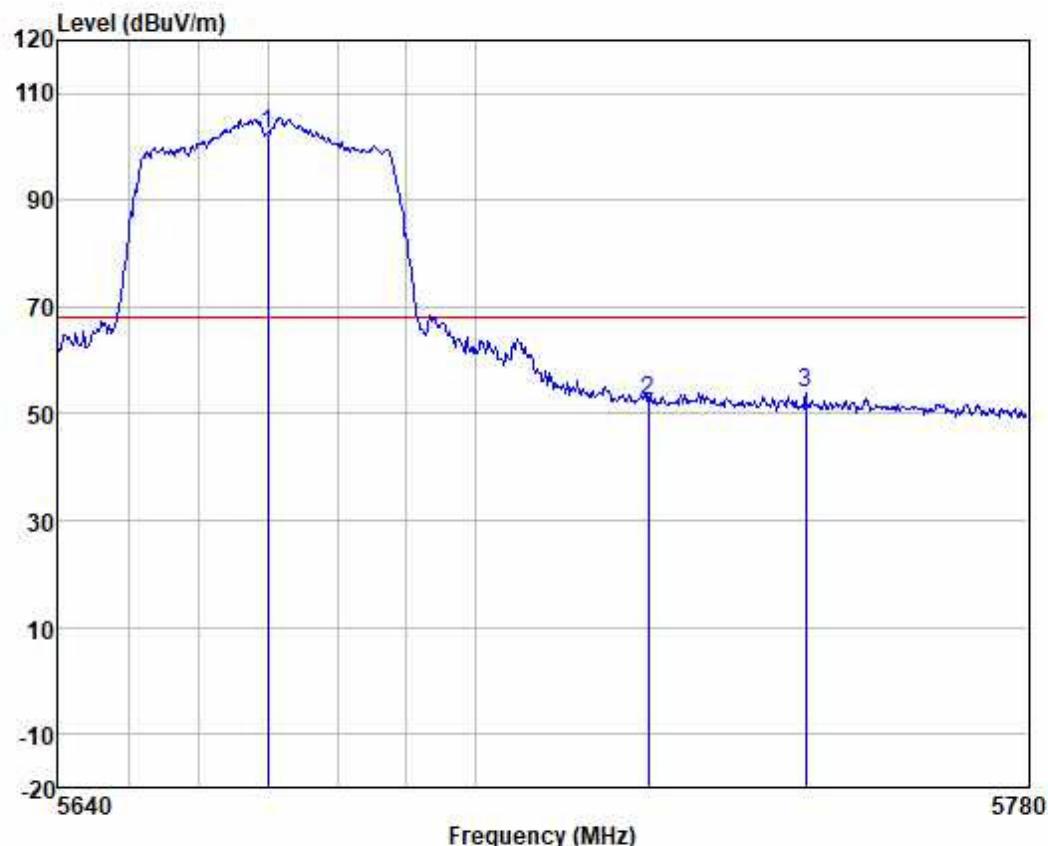
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t (86-20) 82155555 sgs.china@sgs.com

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Over Line Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB
1 * 5670.000	101.04	32.64	5.69	36.78	102.59	68.20	34.39	HORIZONTAL	peak	
2 5725.000	50.74	32.65	5.72	36.78	52.33	68.20	-15.87	HORIZONTAL	peak	
3 5747.777	52.40	32.65	5.74	36.79	54.00	68.20	-14.20	HORIZONTAL	peak	

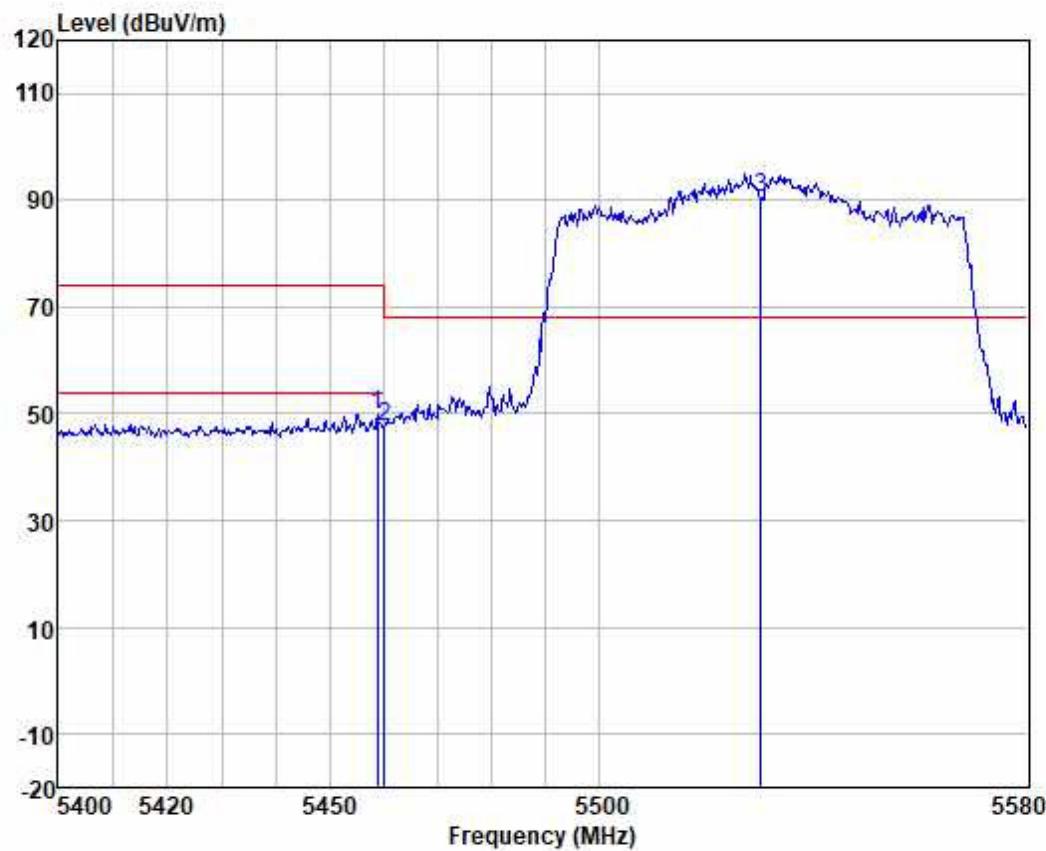
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t (86-20) 82155555 sgs.china@sgs.com

Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



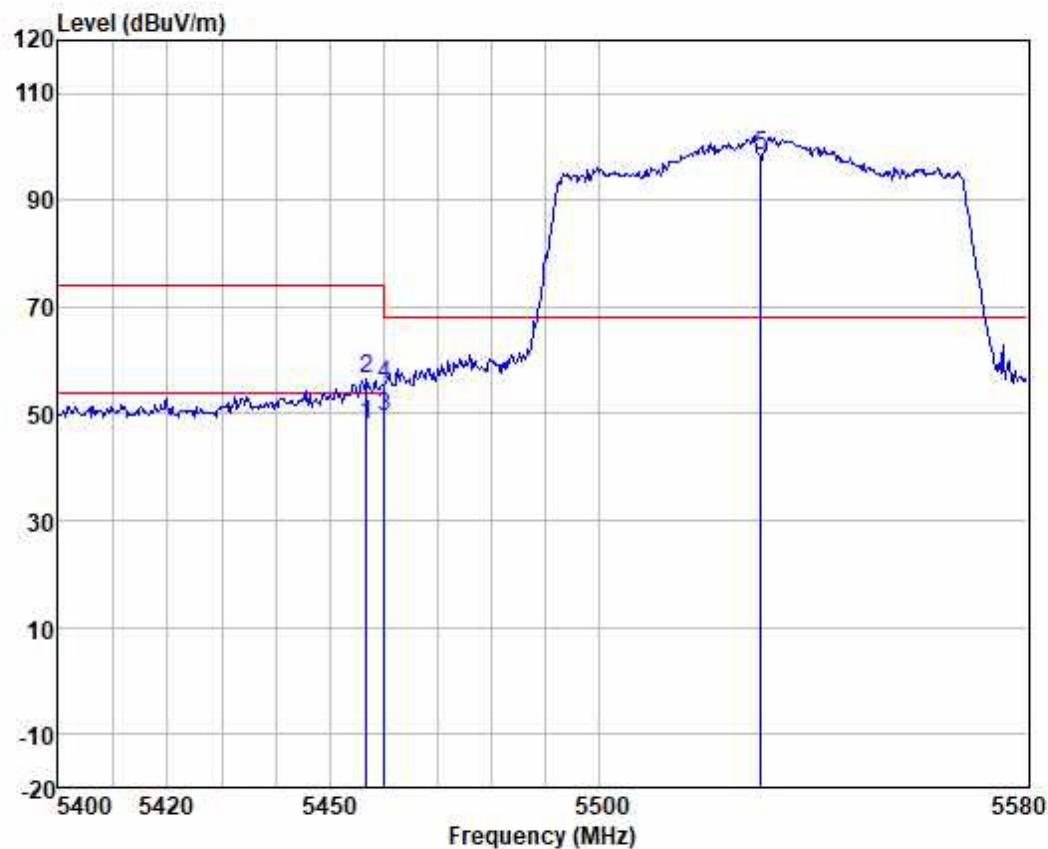
Freq	ReadAntenna		Cable		Preamp		Limit	Over	Over	Remark
	MHz	Level	Factor	Loss	Factor	Level				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5458.749	49.23	32.71	5.14	37.16	49.92	74.00	-24.08	VERTICAL	peak
2	5460.000	46.94	32.71	5.14	37.16	47.63	68.20	-20.57	VERTICAL	peak
3 *	5530.000	89.73	32.61	5.17	37.15	90.36	68.20	22.16	VERTICAL	peak



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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1 5456.601	47.43	32.71	5.14	37.16	48.12	54.00	-5.88	HORIZONTAL	Average	
2 5456.601	56.02	32.71	5.14	37.16	56.71	74.00	-17.29	HORIZONTAL	peak	
3 5460.000	48.58	32.71	5.14	37.16	49.27	54.00	-4.73	HORIZONTAL	Average	
4 5460.000	54.73	32.71	5.14	37.16	55.42	68.20	-12.78	HORIZONTAL	peak	
5 * 5530.000	97.61	32.61	5.17	37.15	98.24	68.20	30.04	HORIZONTAL	peak	

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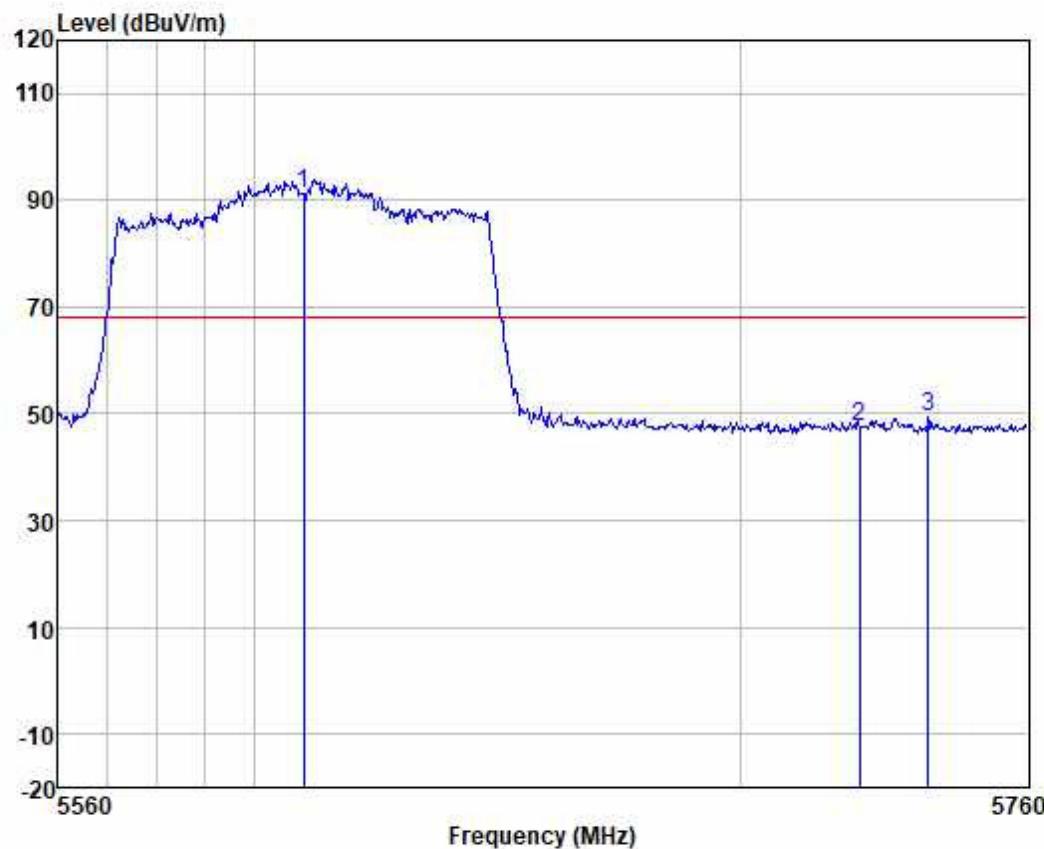
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Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High

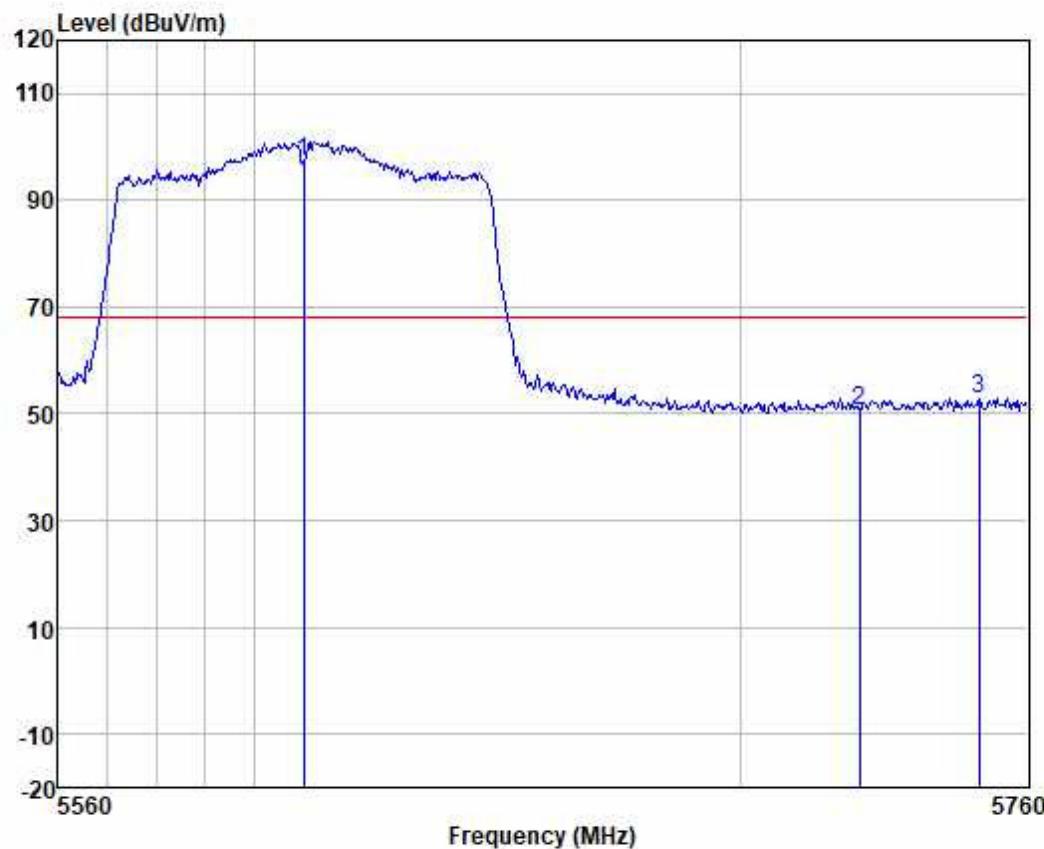


Freq MHz	ReadAntenna		Cable		Preamp		Limit Line dBuV/m	Over Limit dB	Over Line dBuV/m	Over Limit Pol/Phase	Remark
	Level dBuV	Antenna Factor	Loss dB	Factor	Level dB	dBuV/m					
1 * 5610.000	90.53	32.63	5.21	37.14	91.23	68.20	68.20	23.03	68.20	23.03	VERTICAL
2 5725.000	46.76	32.65	5.29	37.13	47.57	68.20	68.20	-20.63	68.20	-20.63	VERTICAL
3 5739.478	48.57	32.65	5.30	37.13	49.39	68.20	68.20	-18.81	68.20	-18.81	VERTICAL

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t (86-20) 82155555 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## 7.6 Duty Cycle

Test Requirement	ANSI C63.10 (2013) Section 12.2
Test Method:	ANSI C63.10 (2013) Section 12.2

### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C      Humidity: 57.8 % RH      Atmospheric Pressure: 1020 mbar

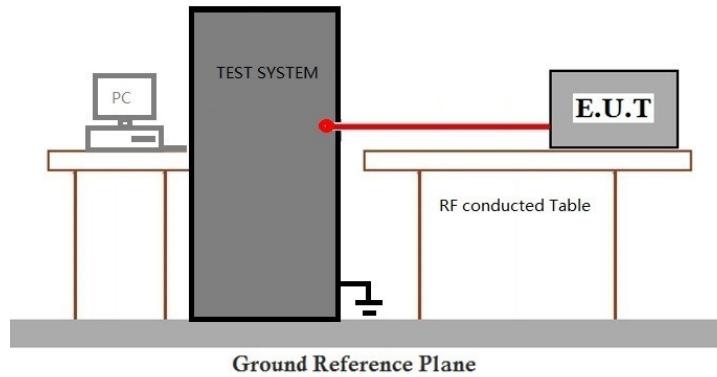
### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	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/ac 20/40/80, Only the data of worst case is recorded in the report.



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**7.6.3 Test Setup Diagram****7.6.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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## 7.7 99% Bandwidth

Test Requirement ANSI C63.10 (2013) Section 12.4.2

Test Method: ANSI C63.10 (2013) Section 12.4.2

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C      Humidity: 57.8 % RH      Atmospheric Pressure: 1020 mbar

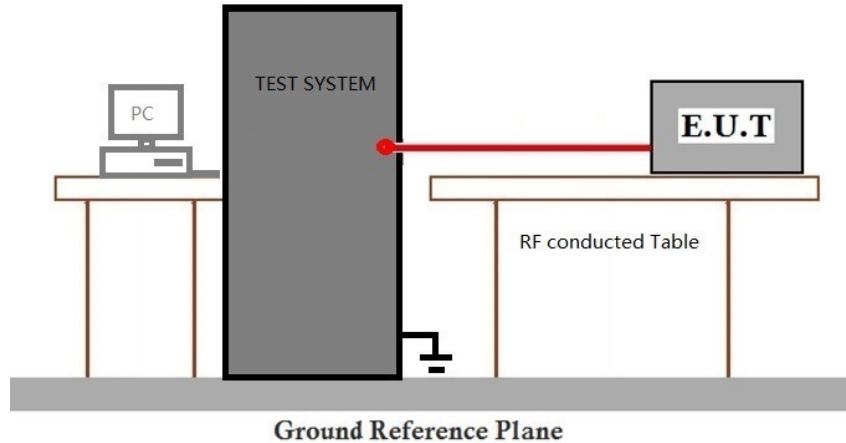
### 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	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/ac 20/40/80, Only the data of worst case is recorded in the report.



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**7.7.3 Test Setup Diagram****7.7.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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## 7.8 26dB Emission bandwidth

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

Test Method: ANSI C63.10 (2013) Section 12.4.1

### 7.8.1 E.U.T. Operation

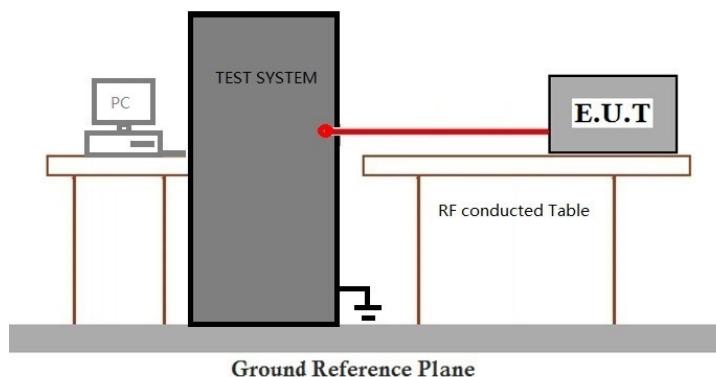
Operating Environment:

Temperature: 23.9 °C Humidity: 57.8 % RH Atmospheric Pressure: 1020 mbar

### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	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/ac 20/40/80, Only the data of worst case is recorded in the report.

### 7.8.3 Test Setup Diagram



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t (86-20) 82155555 sgs.china@sgs.com

**7.8.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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t (86-20) 82155555 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

**7.9 Minimum 6 dB bandwidth (5.725-5.85 GHz band )**

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

Test Method: ANSI C63.10 (2013) Section 6.9.2

Limit:

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

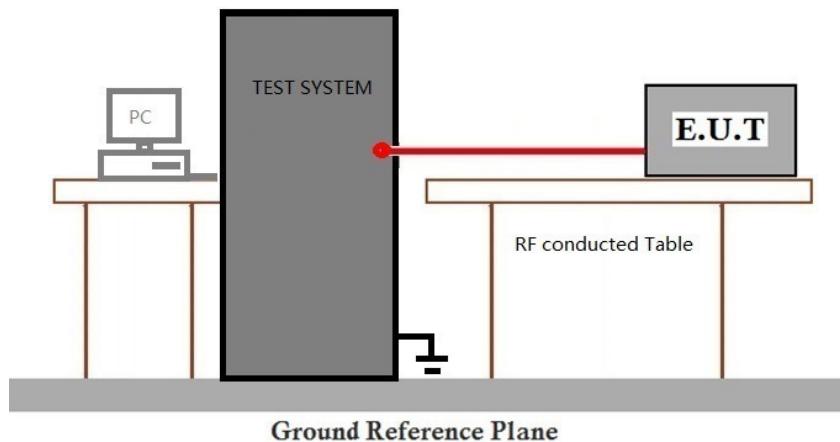
**7.9.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.9 °C Humidity: 57.8 % RH Atmospheric Pressure: 1020 mbar

**7.9.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	07	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/ac 20/40/80, Only the data of worst case is recorded in the report.

**7.9.3 Test Setup Diagram****7.9.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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**7.10 Peak Power spectrum density**

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

Test Method: ANSI C63.10 (2013) Section 12.5

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

**7.10.1 E.U.T. Operation**

Operating Environment:

Temperature: 23.9 °C Humidity: 57.8 % RH Atmospheric Pressure: 1020 mbar

**7.10.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	04	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	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/ac 20/40/80, Only the data of worst case is recorded in the report.



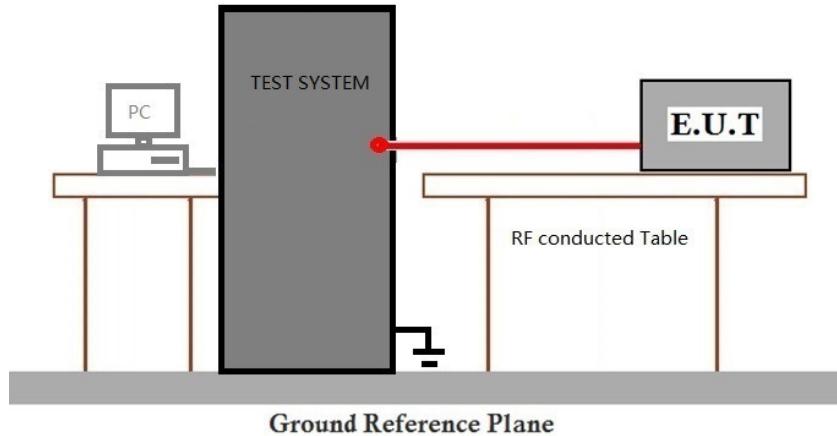
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**7.10.3 Test Setup Diagram****7.10.4 Measurement Procedure and Data**

Please Refer to Appendix for Details



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## 7.11 Frequency Stability

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

Test Method: ANSI C63.10 (2013) Section 6.8

### 7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C      Humidity: 57.8 % RH      Atmospheric Pressure: 1020 mbar

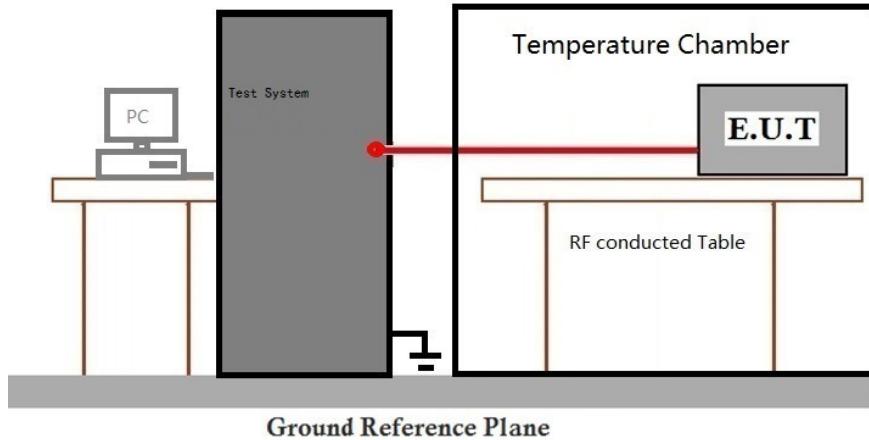
### 7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	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/ac 20/40/80, Only the data of worst case is recorded in the report.



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**7.11.3 Test Setup Diagram****7.11.4 Measurement Procedure and Data**

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## 8 Test Setup Photo

Refer to Appendix\_Test Setup Photo for GZCR250300030405



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## 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2503000304HS



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## 10 Appendix

### 1. Duty Cycle

#### 1.1 Test Result

##### 1.1.1 Ant1

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	1.429	1.530	93.40	0.30	0.03
		5200	1.430	1.530	93.46	0.29	0.03
		5240	1.428	1.529	93.39	0.30	0.03
		5260	1.429	1.530	93.40	0.30	0.00
		5300	1.429	1.530	93.40	0.30	0.03
		5320	1.428	1.529	93.39	0.30	0.03
		5500	1.429	1.530	93.40	0.30	0.03
		5580	1.429	1.529	93.46	0.29	0.03
		5700	1.429	1.529	93.46	0.29	0.06
		5745	1.429	1.529	93.46	0.29	0.03
		5785	1.429	1.529	93.46	0.29	0.00
		5825	1.429	1.529	93.46	0.29	0.03
802.11n (HT40)	SISO	5190	0.664	0.766	86.68	0.62	0.04
		5230	0.664	0.766	86.68	0.62	0.03
		5270	0.664	0.765	86.80	0.61	0.07
		5310	0.670	0.766	87.47	0.58	0.03
		5510	0.664	0.766	86.68	0.62	0.03
		5550	0.670	0.765	87.58	0.58	0.04
		5670	0.665	0.766	86.81	0.61	0.04
		5755	0.664	0.765	86.80	0.61	0.03
		5795	0.669	0.765	87.45	0.58	0.07
		5210	0.331	0.434	76.27	1.18	0.06
802.11ac (VHT80)	SISO	5290	0.333	0.434	76.73	1.15	0.03
		5530	0.332	0.434	76.50	1.16	0.05
		5610	0.338	0.434	77.88	1.09	0.11
		5775	0.332	0.434	76.50	1.16	0.05

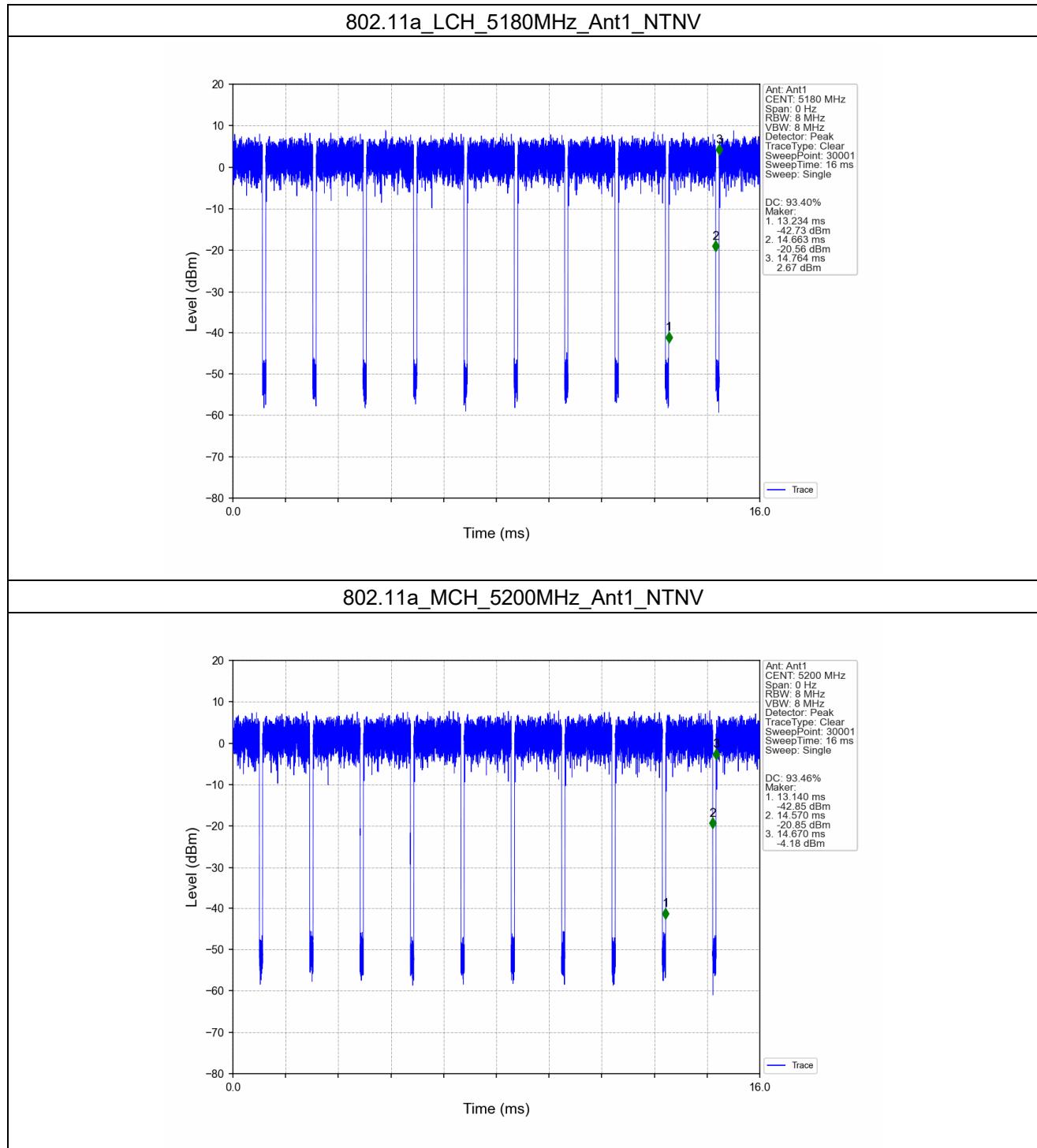


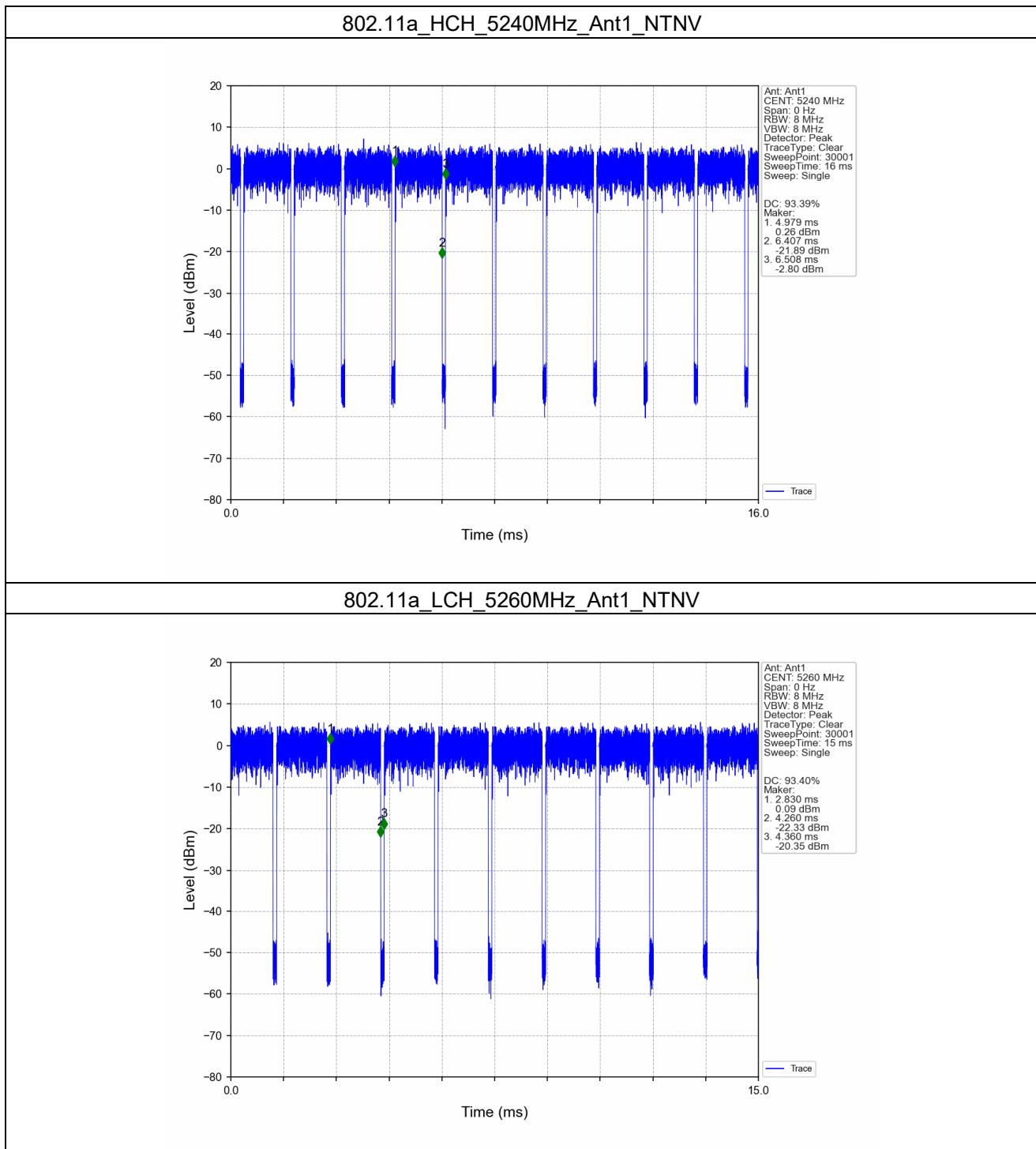
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## 1.2 Test Graph

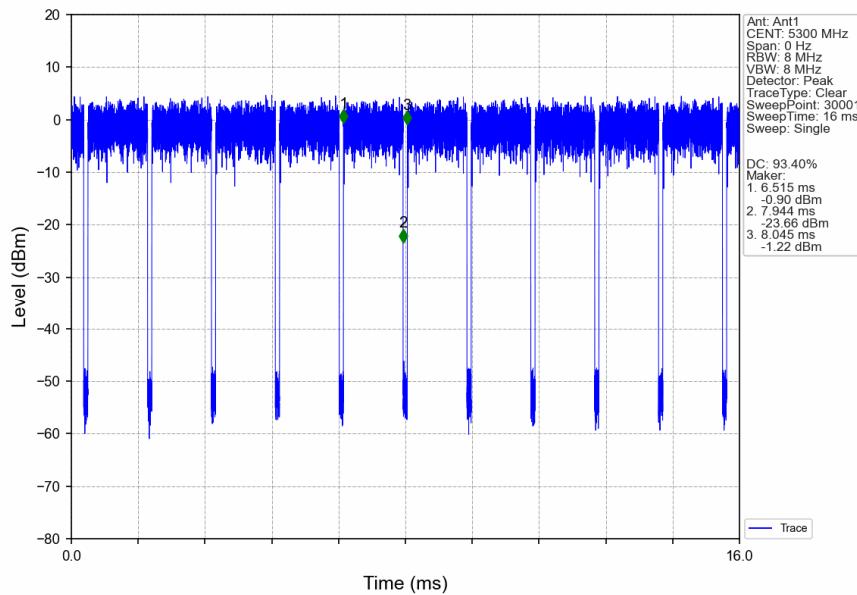
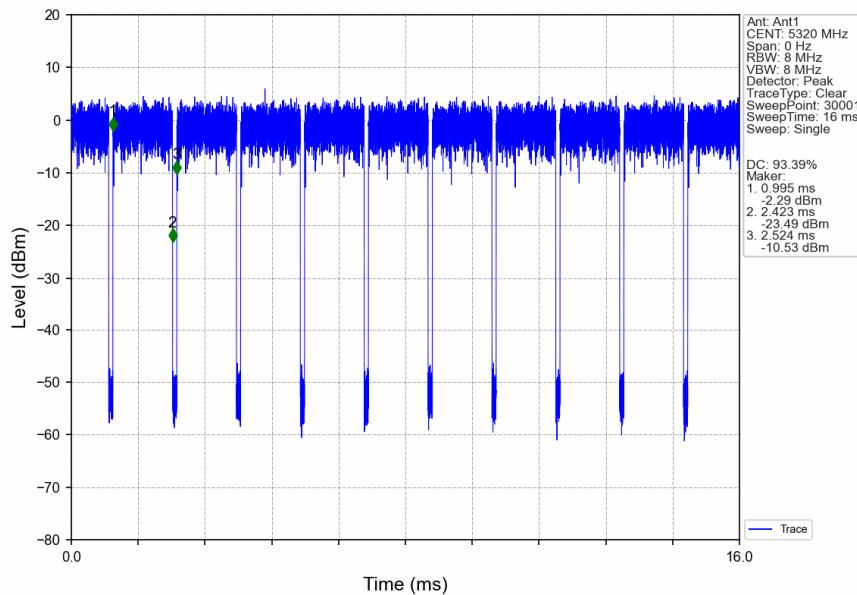
## 1.2.1 Ant1





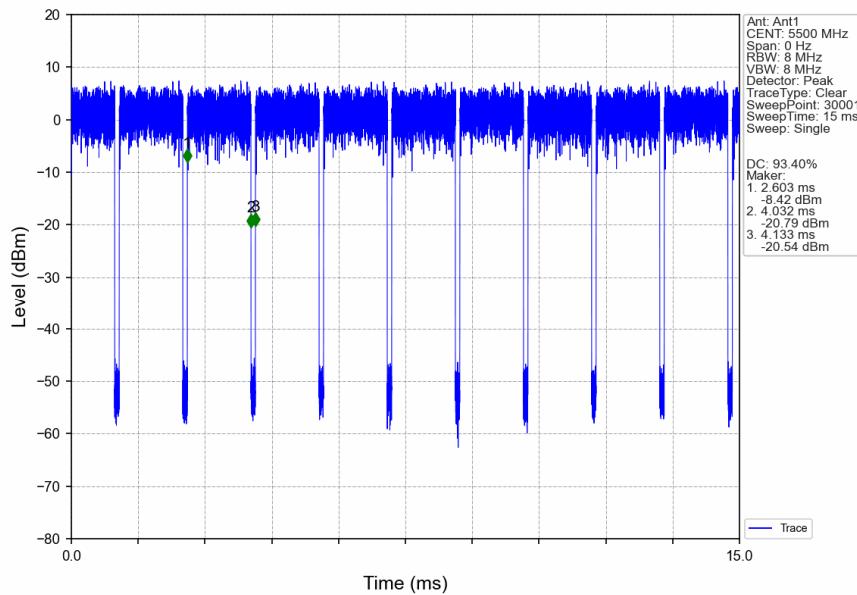
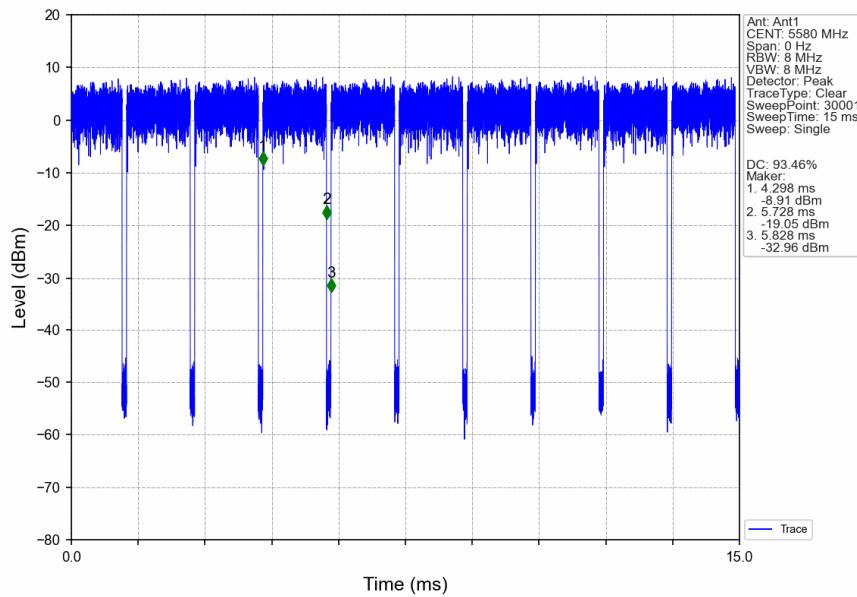
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**802.11a\_MCH\_5300MHz\_Ant1\_NTNV****802.11a\_HCH\_5320MHz\_Ant1\_NTNV**

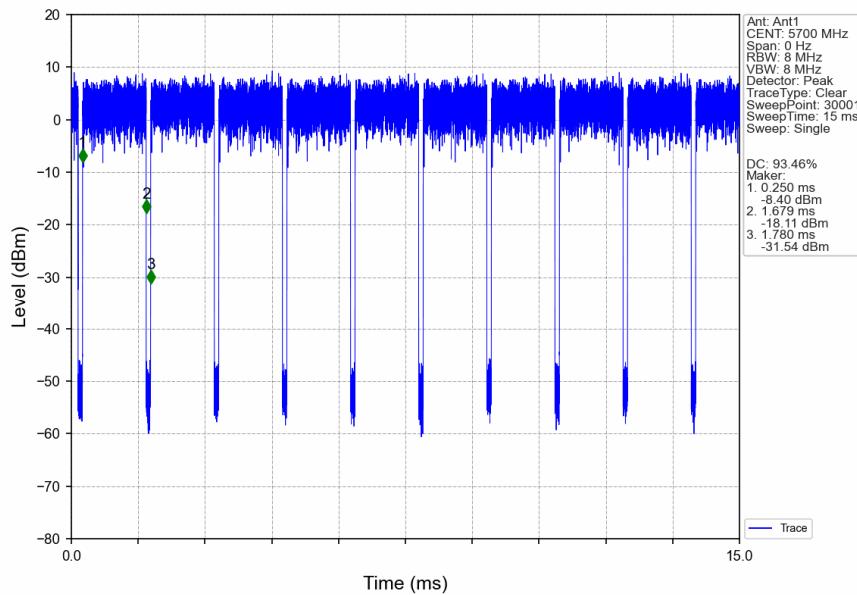
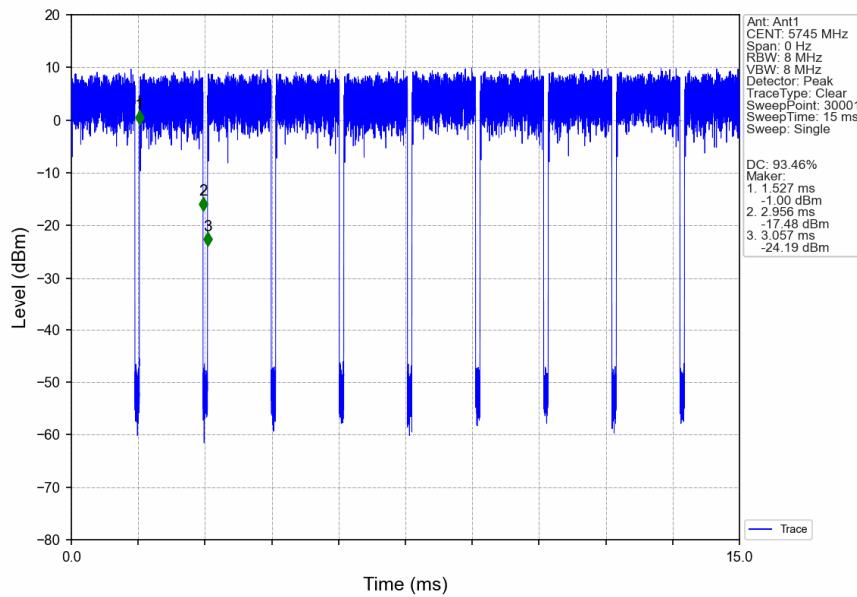
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**802.11a\_LCH\_5500MHz\_Ant1\_NTNV****802.11a\_MCH\_5580MHz\_Ant1\_NTNV**

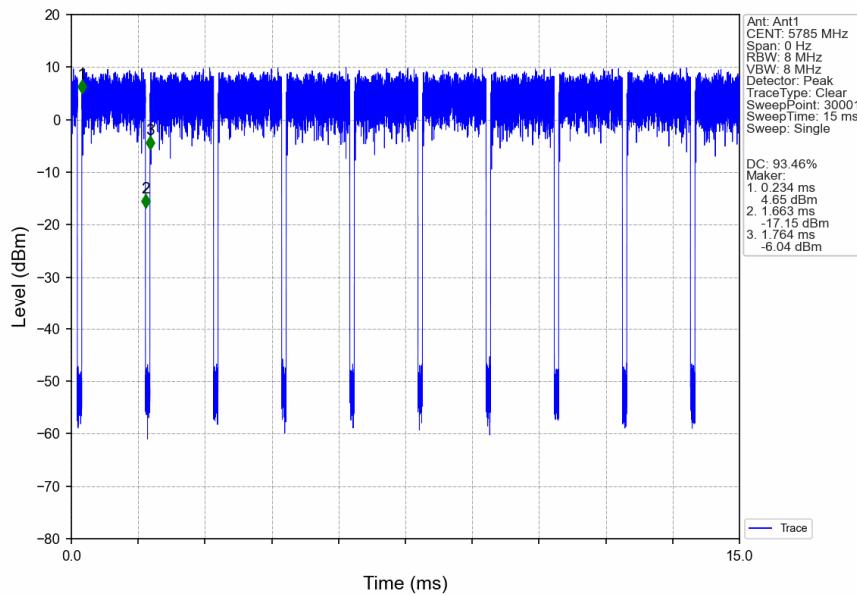
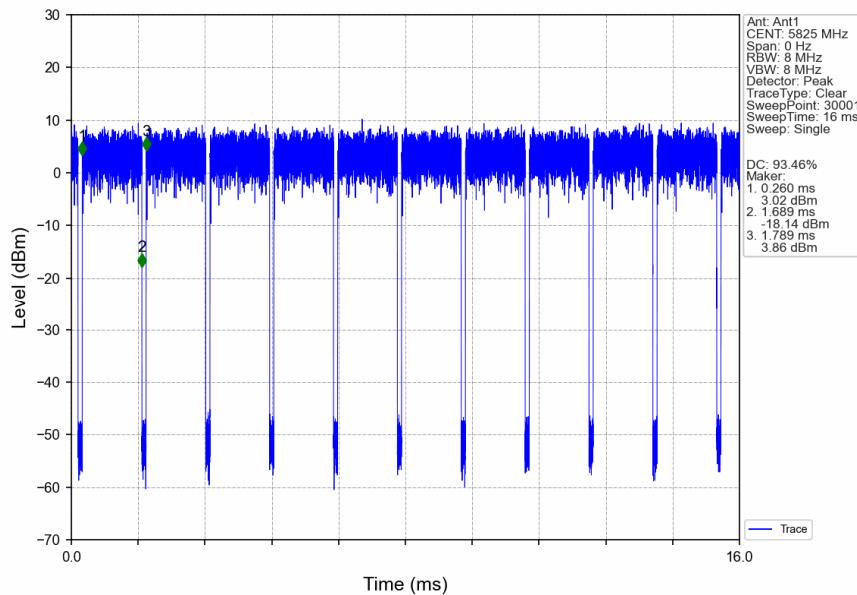
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**802.11a\_HCH\_5700MHz\_Ant1\_NTNV****802.11a\_LCH\_5745MHz\_Ant1\_NTNV**

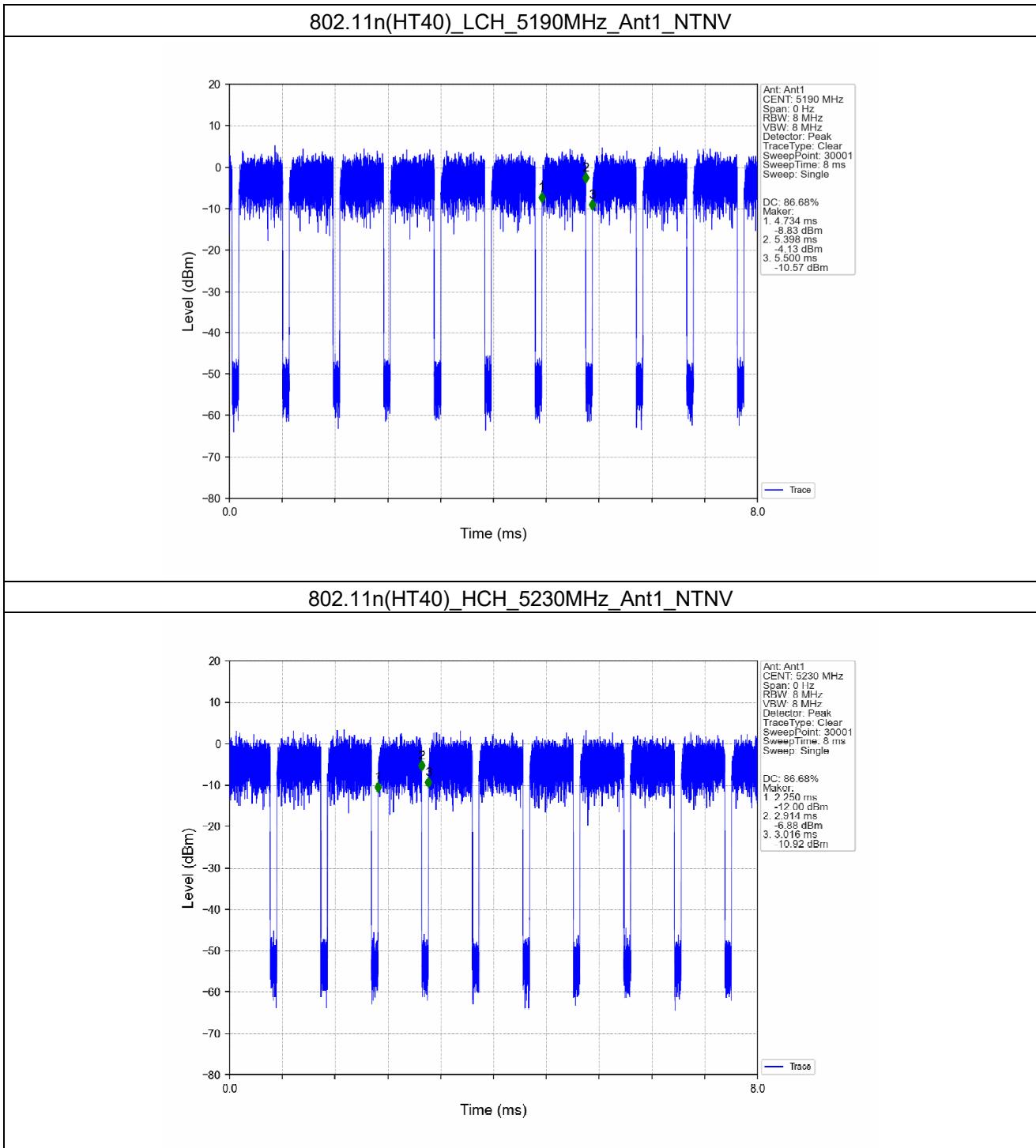
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**802.11a\_MCH\_5785MHz\_Ant1\_NTNV****802.11a\_HCH\_5825MHz\_Ant1\_NTNV**

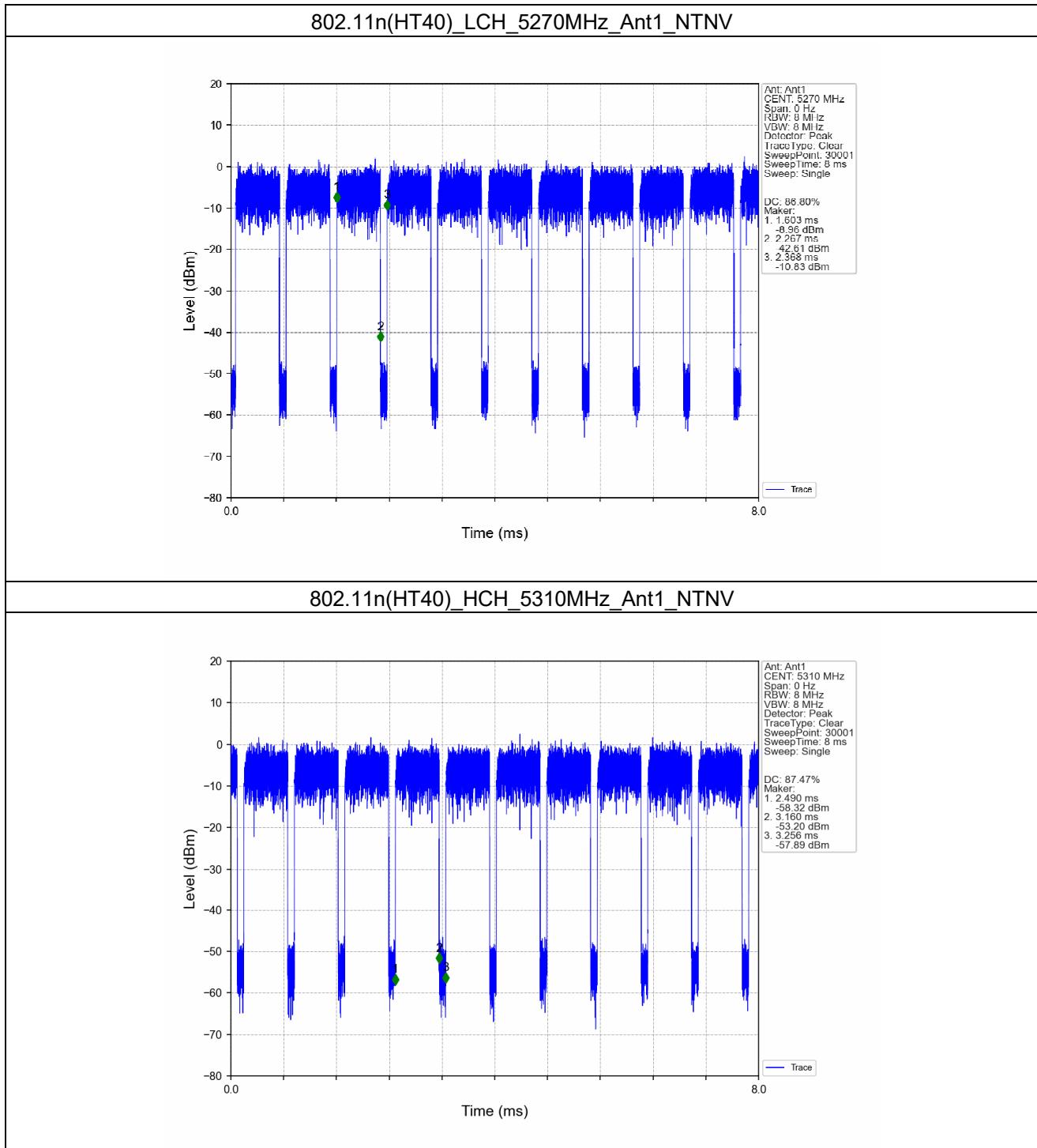
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