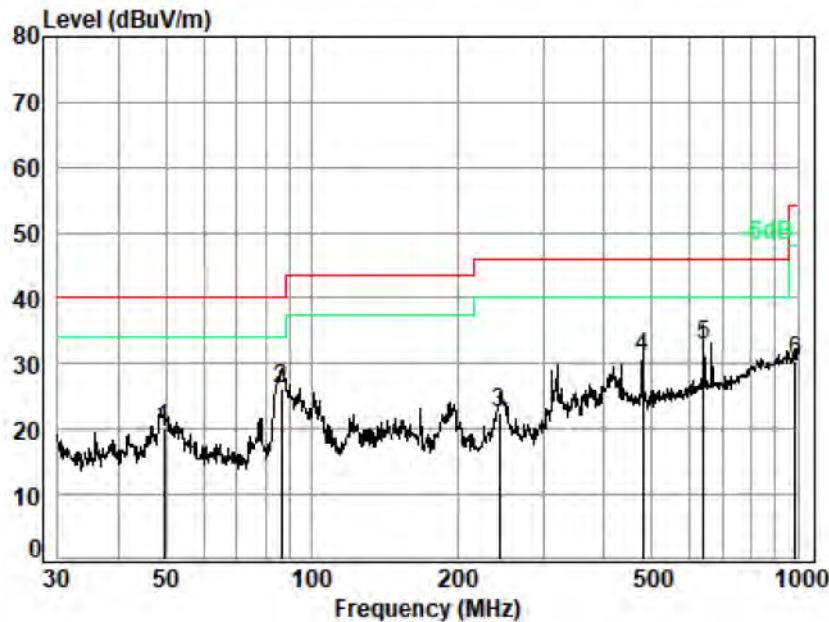


Test Mode: 00; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 24351AT  
Mode : 00

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 49.5328	0.22	17.35	25.86	28.24	19.95	40.00	-20.05 QP
2 86.5029	0.59	13.70	25.81	37.63	26.11	40.00	-13.89 QP
3 244.2321	0.81	16.57	25.23	30.39	22.54	46.00	-23.46 QP
4 480.5276	1.42	22.16	26.26	33.82	31.14	46.00	-14.86 QP
5 p 640.6110	2.06	25.03	26.75	32.51	32.85	46.00	-13.15 QP
6 989.5355	2.52	29.32	26.22	24.71	30.33	54.00	-23.67 QP

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## 7.9 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21.6 °C

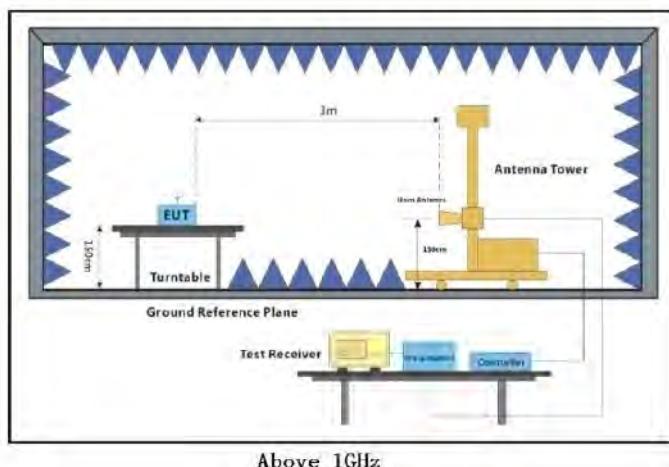
Humidity: 52.3 % RH

Atmospheric Pressure: 1020 mbar

### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

### 7.9.3 Test Setup Diagram



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#### 7.9.4 Measurement Procedure and Data

- a. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (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 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 25GHz, 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.
3. 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.

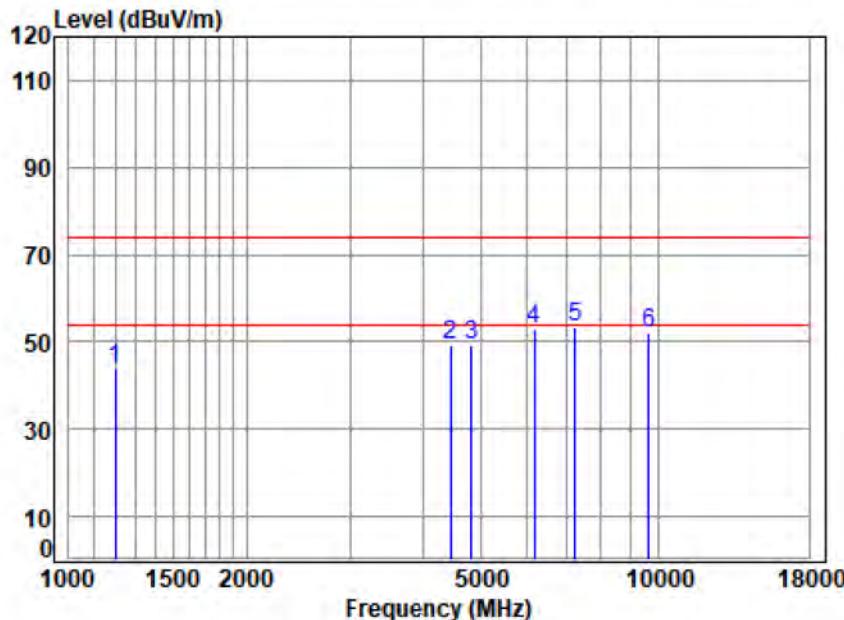


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No :  
 Mode : 2412 TX RSE  
 : 2.4G WIFI 11B

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1196.2640	2.57	25.56	48.08	63.73	43.78	74.00	-30.22 peak
2 4456.3150	6.96	30.13	47.96	60.08	49.21	74.00	-24.79 peak
3 4824.0000	7.65	30.80	47.71	58.41	49.15	74.00	-24.85 peak
4 6177.6270	7.39	32.46	47.38	60.34	52.81	74.00	-21.19 peak
5 p7236.0000	7.77	36.10	47.25	56.86	53.48	74.00	-20.52 peak
6 9648.0000	10.29	38.78	46.77	49.71	52.01	74.00	-21.99 peak

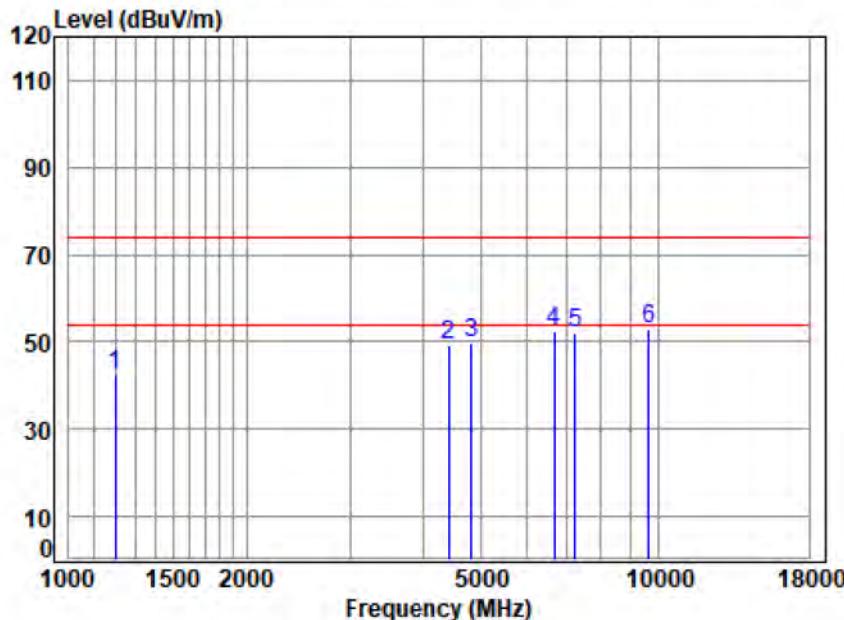
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 24351AT  
 Mode : 2412 TX RSE  
       : 2.4G WIFI 11B

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1196.2640	2.57	25.56	48.08	62.61	42.66	74.00	-31.34 peak
2 4417.8410	6.95	29.91	47.99	60.55	49.42	74.00	-24.58 peak
3 4824.0000	7.65	30.80	47.71	58.92	49.66	74.00	-24.34 peak
4 6659.7630	7.58	33.62	47.33	58.69	52.56	74.00	-21.44 peak
5 7236.0000	7.77	36.10	47.25	55.53	52.15	74.00	-21.85 peak
6 p9648.0000	10.29	38.78	46.77	50.55	52.85	74.00	-21.15 peak

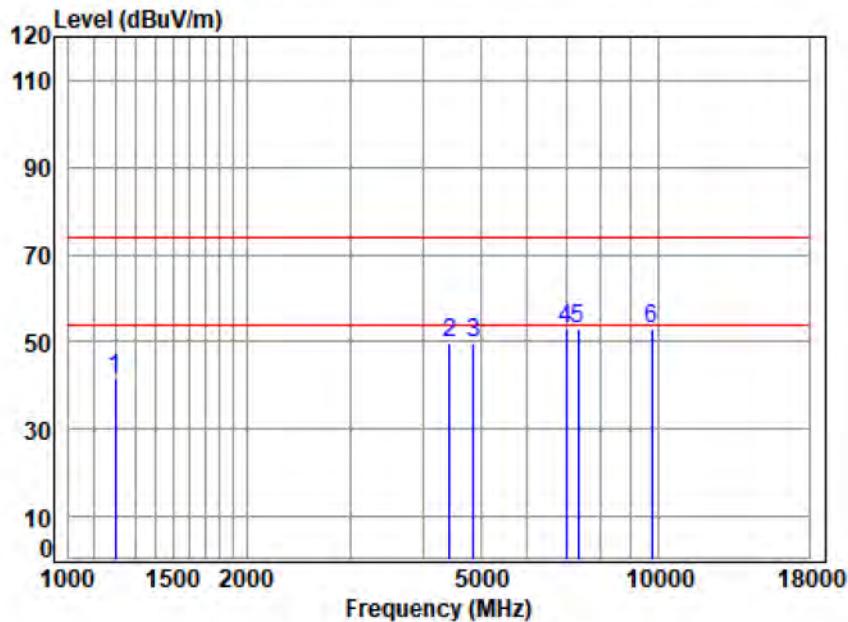
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 24351AT  
Mode : 2437 TX RSE  
: 2.4G WIFI 11B

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1196.2640	2.57	25.56	48.08	61.37	41.42	74.00	-32.58 peak
2 4430.6280	6.96	29.98	47.98	60.74	49.70	74.00	-24.30 peak
3 4874.0000	7.75	30.80	47.68	59.03	49.90	74.00	-24.10 peak
4 6974.9820	7.57	35.05	47.30	57.38	52.70	74.00	-21.30 peak
5 p7311.0000	7.83	36.17	47.23	56.19	52.96	74.00	-21.04 peak
6 9748.0000	10.42	39.10	46.78	50.05	52.79	74.00	-21.21 peak

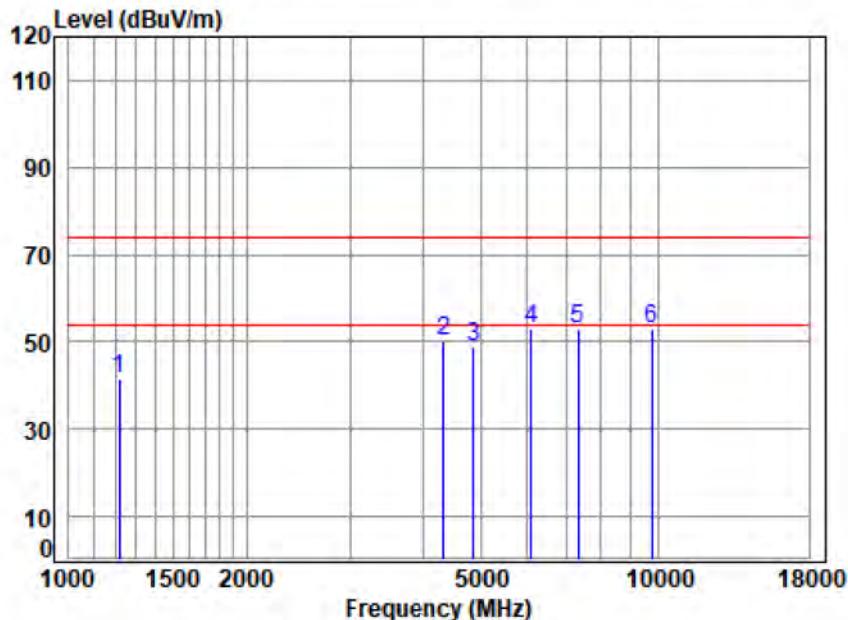
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 24351AT  
Mode : 2437 TX RSE  
: 2.4G WIFI 11B

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	1217.1900	2.61	25.84	48.09	61.30	41.66	74.00	-32.34 peak
2	4329.3540	6.94	29.76	48.05	61.50	50.15	74.00	-23.85 peak
3	4874.0000	7.75	30.80	47.68	58.09	48.96	74.00	-25.04 peak
4	6088.9910	7.34	32.16	47.39	60.86	52.97	74.00	-21.03 peak
5	p7311.0000	7.83	36.17	47.23	56.21	52.98	74.00	-21.02 peak
6	9748.0000	10.42	39.10	46.78	49.98	52.72	74.00	-21.28 peak

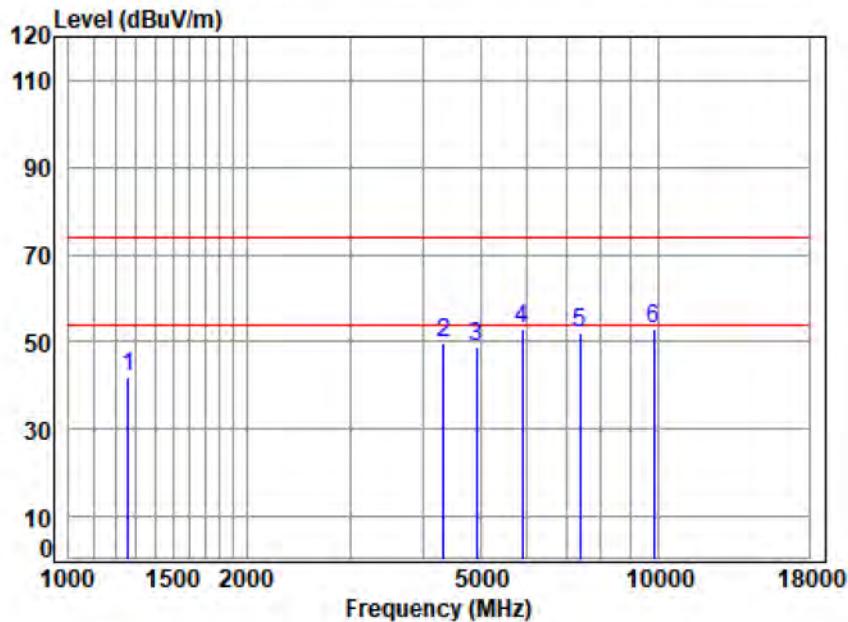
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 24351AT  
Mode : 2462 TX RSE  
: 2.4G WIFI 11B

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1260.1490	2.69	26.28	48.10	61.32	42.19	74.00	-31.81 peak
2 4329.3540	6.94	29.76	48.05	60.86	49.51	74.00	-24.49 peak
3 4924.0000	7.85	30.85	47.65	57.99	49.04	74.00	-24.96 peak
4 p5881.4180	7.36	31.56	47.42	61.38	52.88	74.00	-21.12 peak
5 7386.0000	7.90	36.62	47.22	54.88	52.18	74.00	-21.82 peak
6 9848.0000	10.55	39.40	46.79	49.65	52.81	74.00	-21.19 peak

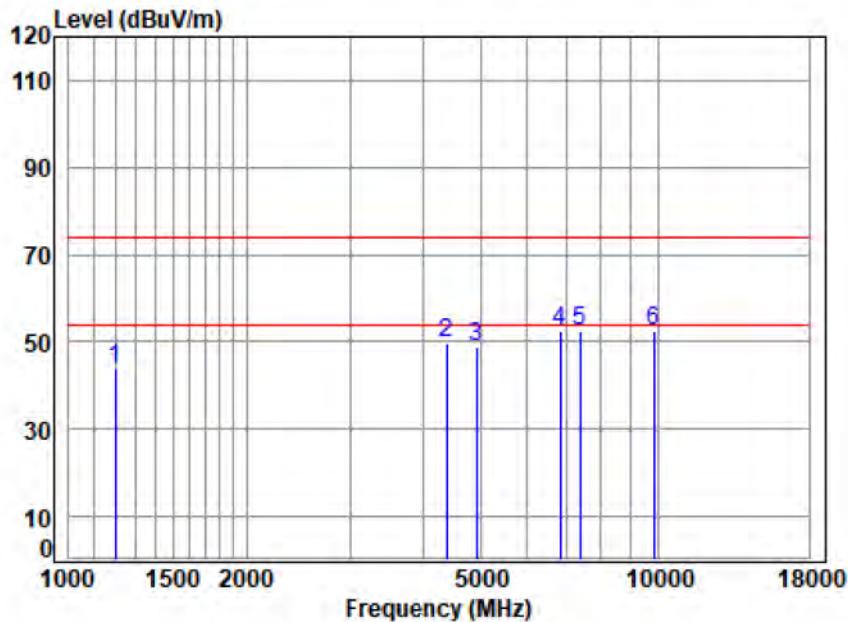
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 24351AT  
 Mode : 2462 TX RSE  
 : 2.4G WIFI 11B

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1196.2640	2.57	25.56	48.08	63.89	43.94	74.00	-30.06 peak
2 4392.3760	6.95	29.80	48.01	60.95	49.69	74.00	-24.31 peak
3 4924.0000	7.85	30.85	47.65	57.71	48.76	74.00	-25.24 peak
4 6835.2780	7.57	34.18	47.32	58.11	52.54	74.00	-21.46 peak
5 p7386.0000	7.90	36.62	47.22	55.30	52.60	74.00	-21.40 peak
6 9848.0000	10.55	39.40	46.79	49.15	52.31	74.00	-21.69 peak

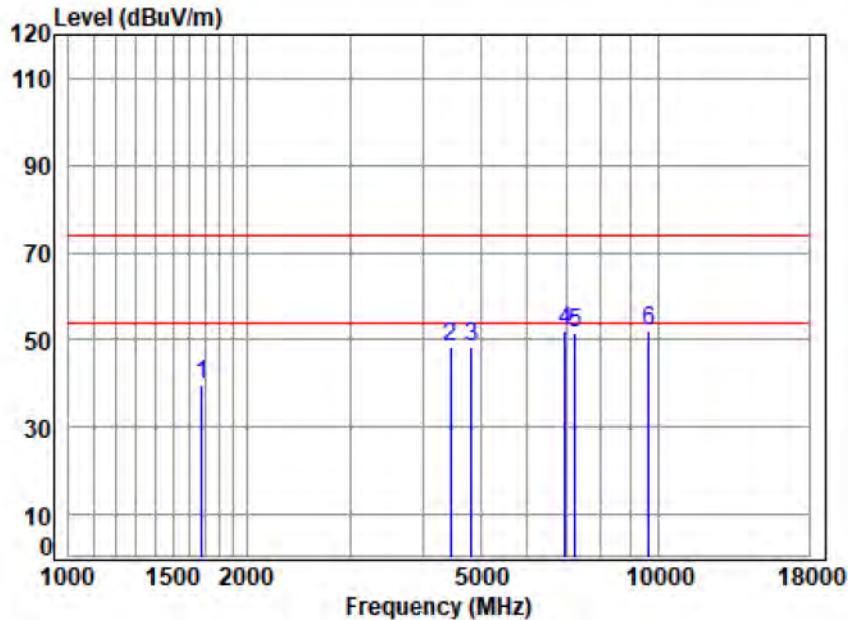
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 24351AT  
Mode : 2412 TX RSE  
: 2.4G WIFI 11G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1677.6210	3.44	25.27	48.22	59.31	39.80	74.00	-34.20 peak
2 4456.3150	6.96	30.13	47.96	59.34	48.47	74.00	-25.53 peak
3 4824.0000	7.65	30.80	47.71	57.56	48.30	74.00	-25.70 peak
4 6954.8520	7.57	34.93	47.30	56.66	51.86	74.00	-22.14 peak
5 7236.0000	7.77	36.10	47.25	55.05	51.67	74.00	-22.33 peak
6 p9648.0000	10.29	38.78	46.77	49.77	52.07	74.00	-21.93 peak

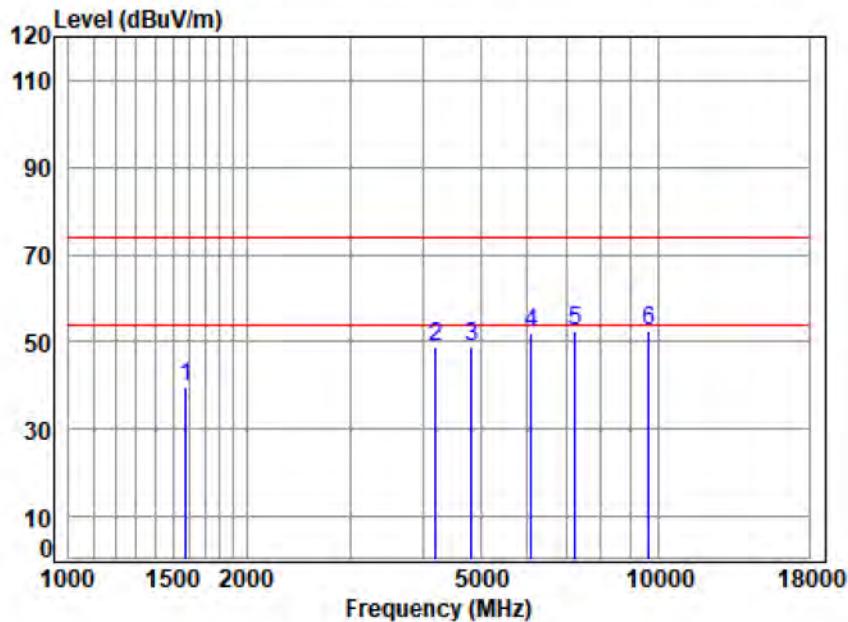
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 24351AT  
Mode : 2412 TX RSE  
: 2.4G WIFI 11G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1578.8220	3.24	24.95	48.20	59.65	39.64	74.00	-34.36 peak
2 4193.8720	6.91	29.38	48.15	60.63	48.77	74.00	-25.23 peak
3 4824.0000	7.65	30.80	47.71	58.18	48.92	74.00	-25.08 peak
4 6106.6160	7.35	32.23	47.39	60.01	52.20	74.00	-21.80 peak
5 p7236.0000	7.77	36.10	47.25	55.91	52.53	74.00	-21.47 peak
6 9648.0000	10.29	38.78	46.77	50.02	52.32	74.00	-21.68 peak

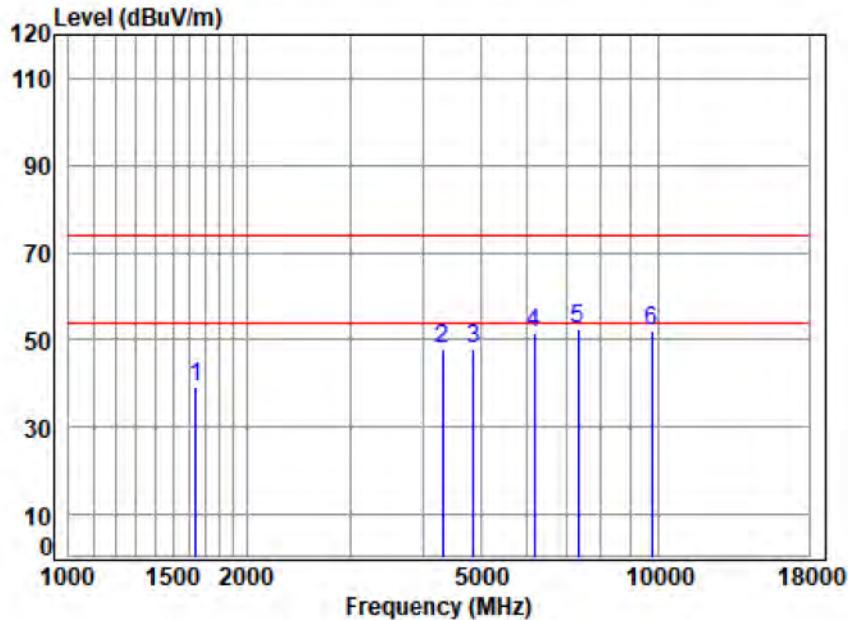
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 24351AT  
Mode : 2437 TX RSE  
: 2.4G WIFI 11G

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Line	Over Limit	Remark
				Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1644.0190	3.37	25.05	48.22	59.25	39.45	74.00	-34.55 peak
2 4316.8590	6.93	29.73	48.06	59.12	47.72	74.00	-26.28 peak
3 4874.0000	7.75	30.80	47.68	57.01	47.88	74.00	-26.12 peak
4 6177.6270	7.39	32.46	47.38	59.13	51.60	74.00	-22.40 peak
5 p7311.0000	7.83	36.17	47.23	55.80	52.57	74.00	-21.43 peak
6 9748.0000	10.42	39.10	46.78	49.33	52.07	74.00	-21.93 peak

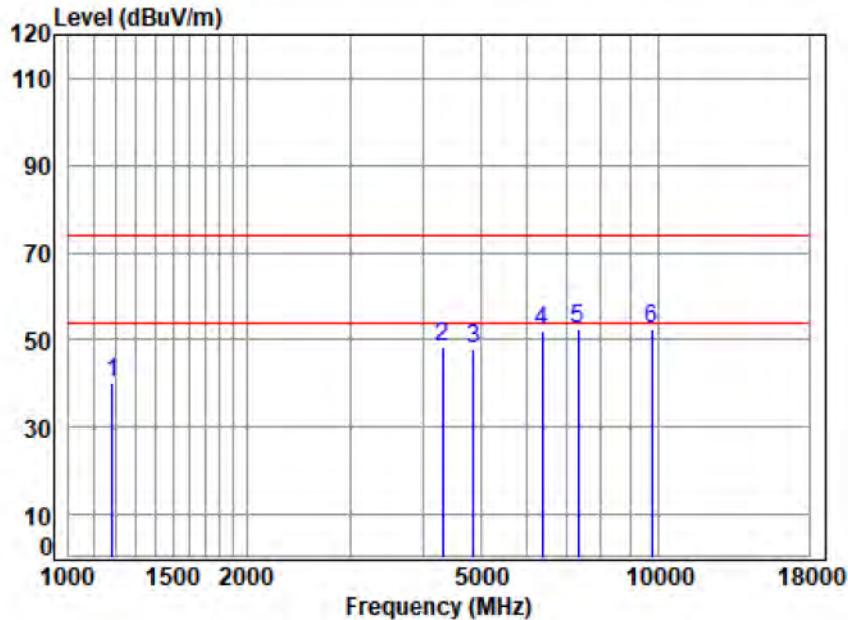


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 24351AT  
Mode : 2437 TX RSE  
: 2.4G WIFI 11G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1185.9360	2.55	25.43	48.07	60.46	40.37	74.00	-33.63 peak
2 4316.8590	6.93	29.73	48.06	59.83	48.43	74.00	-25.57 peak
3 4874.0000	7.75	30.80	47.68	56.96	47.83	74.00	-26.17 peak
4 6358.7890	7.50	32.94	47.36	58.94	52.02	74.00	-21.98 peak
5 7311.0000	7.83	36.17	47.23	55.59	52.36	74.00	-21.64 peak
6 p9748.0000	10.42	39.10	46.78	49.75	52.49	74.00	-21.51 peak

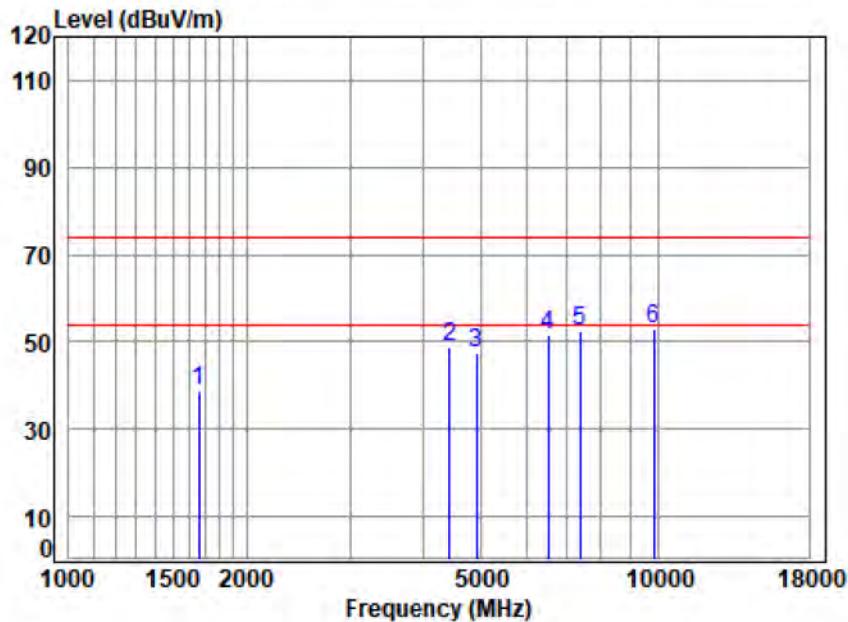
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 24351AT  
Mode : 2462 TX RSE  
: 2.4G WIFI 11G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1663.1370	3.41	25.18	48.22	58.59	38.96	74.00	-35.04 peak
2	4430.6280	6.96	29.98	47.98	59.77	48.73	74.00	-25.27 peak
3	4924.0000	7.85	30.85	47.65	56.45	47.50	74.00	-26.50 peak
4	6507.5360	7.58	33.50	47.35	57.83	51.56	74.00	-22.44 peak
5	7386.0000	7.90	36.62	47.22	55.25	52.55	74.00	-21.45 peak
6	p9848.0000	10.55	39.40	46.79	49.77	52.93	74.00	-21.07 peak

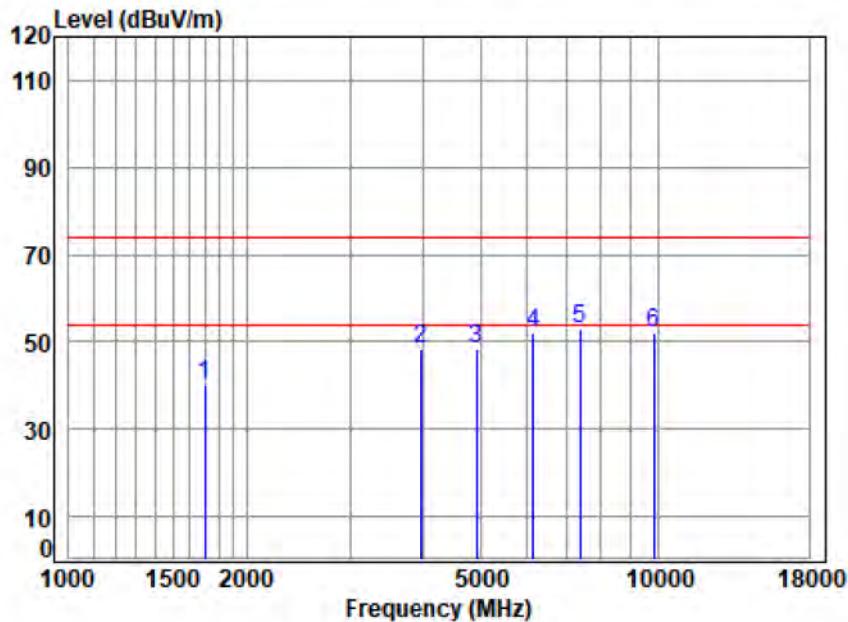
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 24351AT  
Mode : 2462 TX RSE  
: 2.4G WIFI 11G

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	1697.1290	3.48	25.38	48.23	59.49	40.12	74.00	-33.88 peak
2	3969.7670	6.83	29.04	48.29	60.86	48.44	74.00	-25.56 peak
3	4924.0000	7.85	30.85	47.65	57.25	48.30	74.00	-25.70 peak
4	6142.0190	7.37	32.37	47.38	59.79	52.15	74.00	-21.85 peak
5	p7386.0000	7.90	36.62	47.22	55.81	53.11	74.00	-20.89 peak
6	9848.0000	10.55	39.40	46.79	49.01	52.17	74.00	-21.83 peak

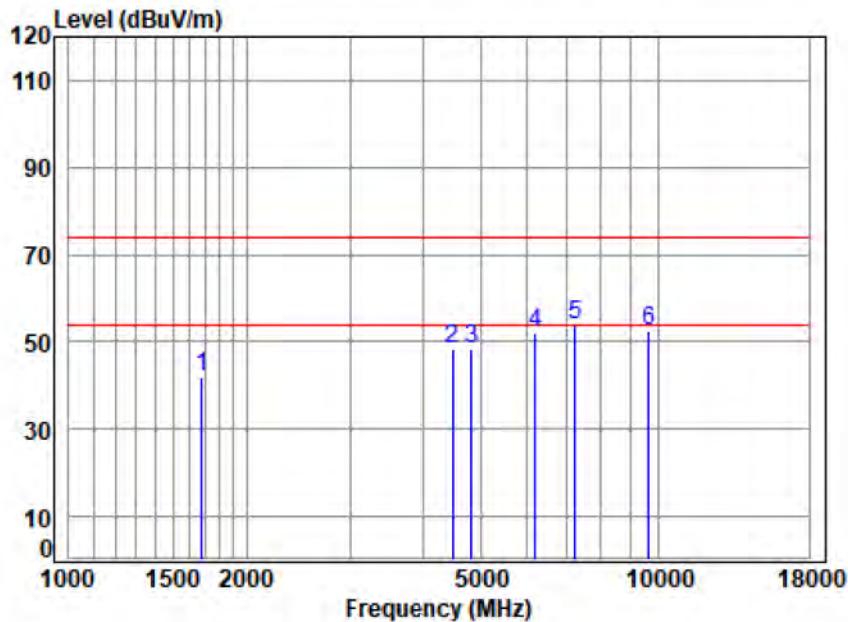
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 24351AT  
 Mode : 2412 TX RSE  
       : 2.4G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1677.6210	3.44	25.27	48.22	61.34	41.83	74.00	-32.17 peak
2 4482.1500	6.97	30.23	47.94	59.19	48.45	74.00	-25.55 peak
3 4824.0000	7.65	30.80	47.71	57.81	48.55	74.00	-25.45 peak
4 6195.5080	7.40	32.49	47.38	59.65	52.16	74.00	-21.84 peak
5 p7236.0000	7.77	36.10	47.25	57.35	53.97	74.00	-20.03 peak
6 9648.0000	10.29	38.78	46.77	50.15	52.45	74.00	-21.55 peak

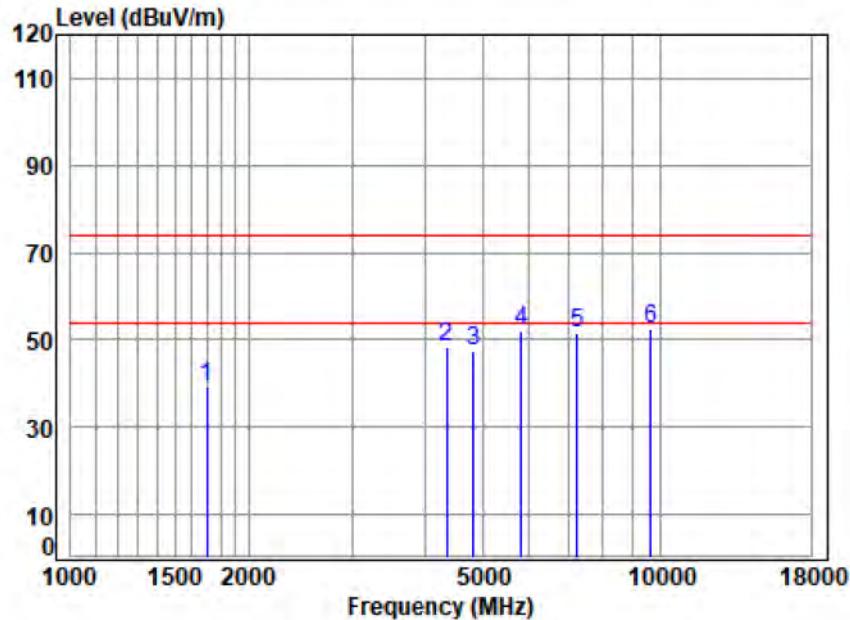
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 24351AT  
Mode : 2412 TX RSE  
: 2.4G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1697.1290	3.48	25.38	48.23	58.60	39.23	74.00	-34.77 peak
2 4354.4540	6.94	29.80	48.03	59.58	48.29	74.00	-25.71 peak
3 4824.0000	7.65	30.80	47.71	56.93	47.67	74.00	-26.33 peak
4 5813.8120	7.40	31.50	47.43	60.32	51.79	74.00	-22.21 peak
5 7236.0000	7.77	36.10	47.25	55.00	51.62	74.00	-22.38 peak
6 p9648.0000	10.29	38.78	46.77	50.18	52.48	74.00	-21.52 peak

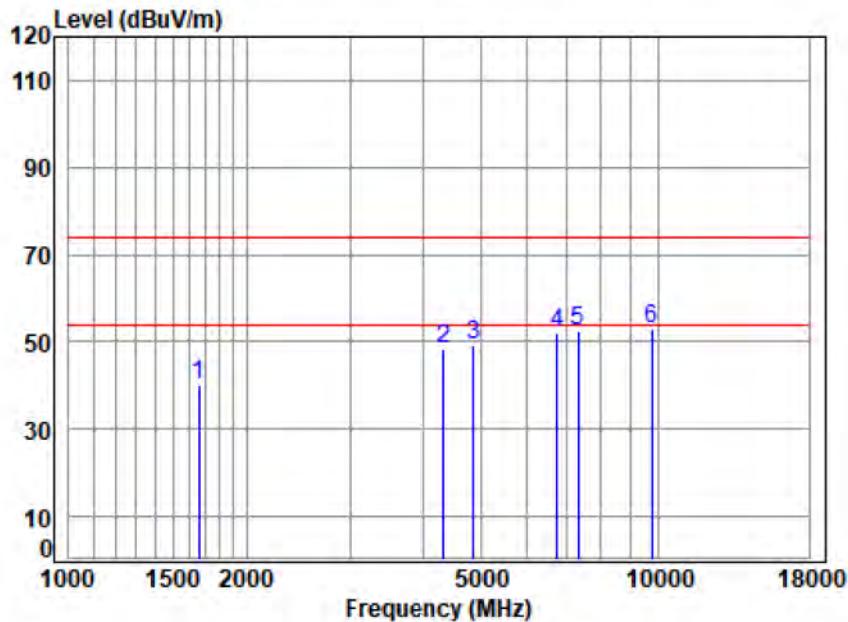
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 24351AT  
Mode : 2437 TX RSE  
: 2.4G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1663.1370	3.41	25.18	48.22	59.64	40.01	74.00	-33.99 peak
2 4329.3540	6.94	29.76	48.05	59.91	48.56	74.00	-25.44 peak
3 4874.0000	7.75	30.80	47.68	58.33	49.20	74.00	-24.80 peak
4 6737.2070	7.58	33.70	47.32	57.89	51.85	74.00	-22.15 peak
5 7311.0000	7.83	36.17	47.23	55.48	52.25	74.00	-21.75 peak
6 p9748.0000	10.42	39.10	46.78	50.15	52.89	74.00	-21.11 peak

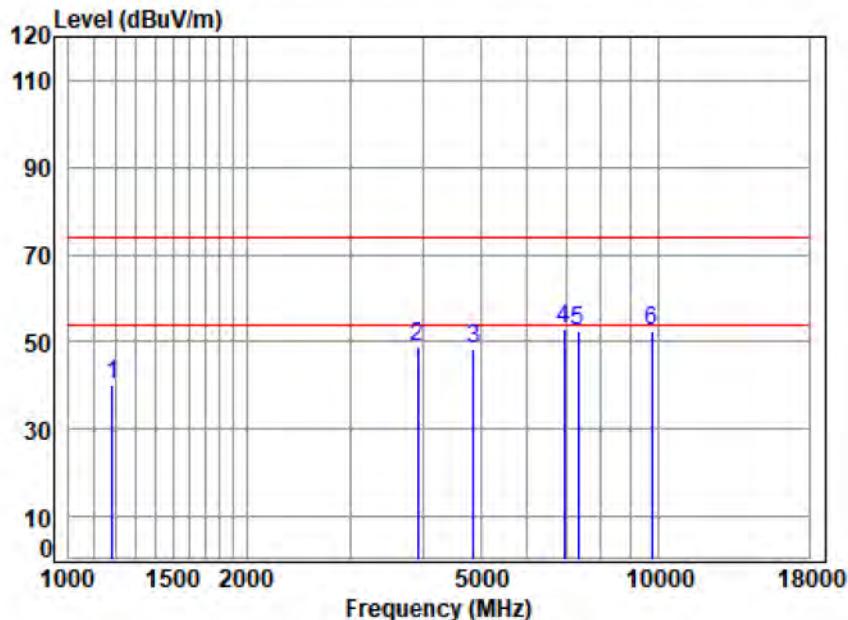
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 24351AT  
Mode : 2437 TX RSE  
: 2.4G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	1185.9360	2.55	25.43	48.07	60.34	40.25	74.00	-33.75 peak
2	3901.5160	6.75	29.00	48.28	61.29	48.76	74.00	-25.24 peak
3	4874.0000	7.75	30.80	47.68	57.65	48.52	74.00	-25.48 peak
4	6934.7780	7.57	34.81	47.31	57.82	52.89	74.00	-21.11 peak
5	7311.0000	7.83	36.17	47.23	55.66	52.43	74.00	-21.57 peak
6	9748.0000	10.42	39.10	46.78	49.57	52.31	74.00	-21.69 peak

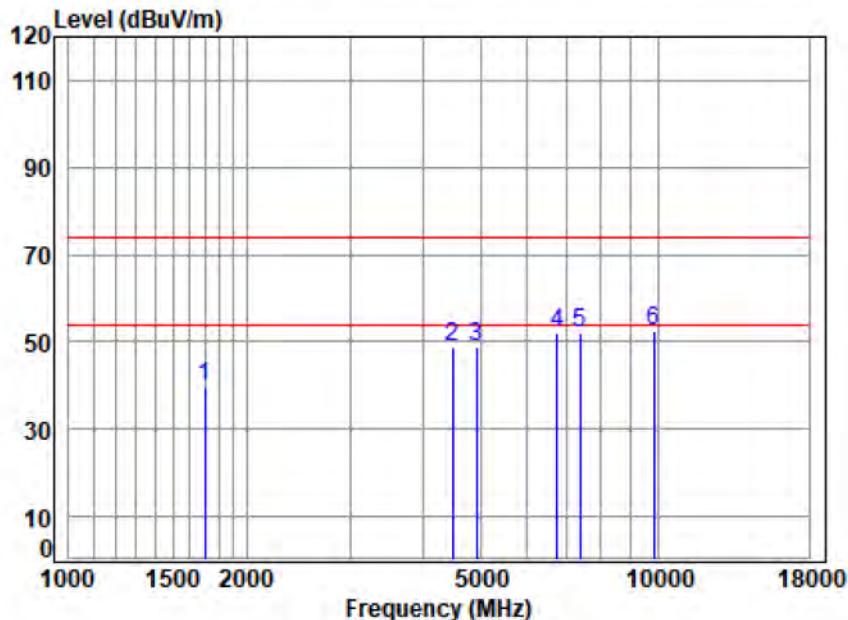
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 24351AT  
Mode : 2462 TX RSE  
: 2.4G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1697.1290	3.48	25.38	48.23	58.87	39.50	74.00	-34.50 peak
2 4482.1500	6.97	30.23	47.94	59.59	48.85	74.00	-25.15 peak
3 4924.0000	7.85	30.85	47.65	57.63	48.68	74.00	-25.32 peak
4 6737.2070	7.58	33.70	47.32	58.09	52.05	74.00	-21.95 peak
5 7386.0000	7.90	36.62	47.22	54.79	52.09	74.00	-21.91 peak
6 p9848.0000	10.55	39.40	46.79	49.37	52.53	74.00	-21.47 peak

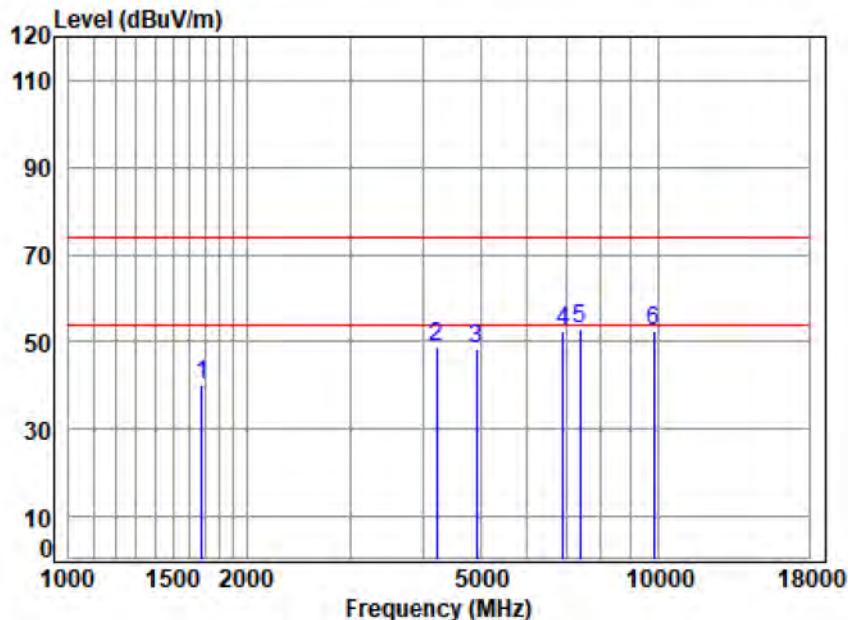
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 24351AT  
Mode : 2462 TX RSE  
: 2.4G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	1677.6210	3.44	25.27	48.22	59.70	40.19	74.00	-33.81 peak
2	4218.1860	6.92	29.47	48.13	60.53	48.79	74.00	-25.21 peak
3	4924.0000	7.85	30.85	47.65	57.36	48.41	74.00	-25.59 peak
4	6894.8060	7.57	34.57	47.31	57.69	52.52	74.00	-21.48 peak
5	p7386.0000	7.90	36.62	47.22	55.64	52.94	74.00	-21.06 peak
6	9848.0000	10.55	39.40	46.79	49.35	52.51	74.00	-21.49 peak

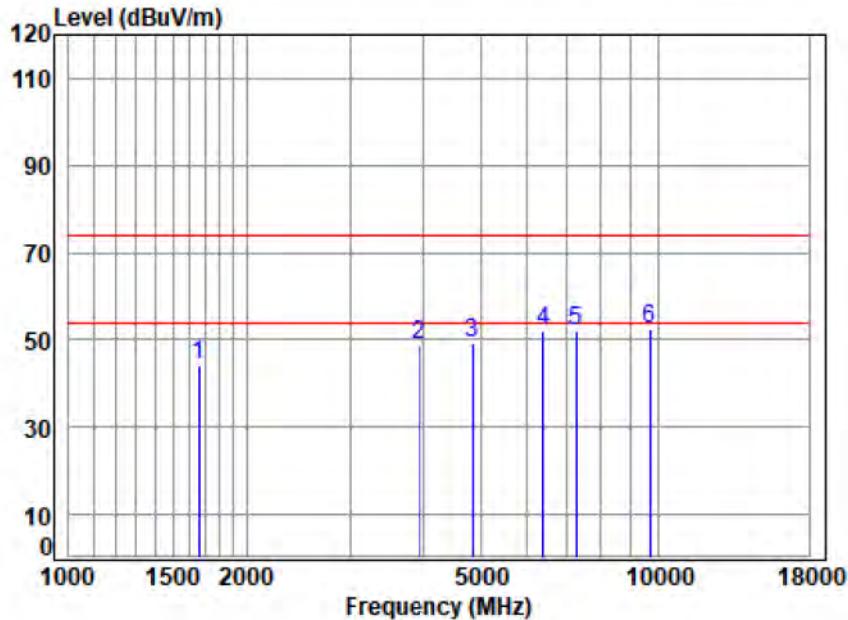
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 24351AT  
 Mode : 2422 TX RSE  
       : 2.4G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Level	Level	Line		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1663.1370	3.41	25.18	48.22	63.79	44.16	74.00	-29.84 peak
2	3935.4930	6.79	29.00	48.29	61.28	48.78	74.00	-25.22 peak
3	4844.0000	7.69	30.80	47.70	58.29	49.08	74.00	-24.92 peak
4	6395.6540	7.52	33.08	47.36	58.63	51.87	74.00	-22.13 peak
5	7266.0000	7.80	36.10	47.24	55.56	52.22	74.00	-21.78 peak
6	p9688.0000	10.34	38.95	46.77	50.17	52.69	74.00	-21.31 peak

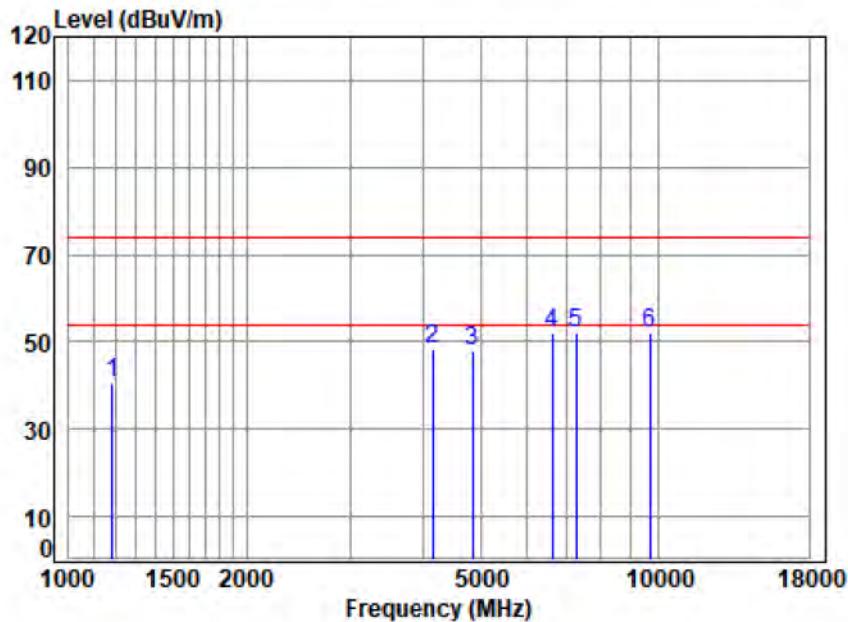
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 24351AT  
 Mode : 2422 TX RSE  
       : 2.4G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1185.9360	2.55	25.43	48.07	60.75	40.66	74.00	-33.34 peak
2 4157.6640	6.90	29.23	48.18	60.35	48.30	74.00	-25.70 peak
3 4844.0000	7.69	30.80	47.70	57.26	48.05	74.00	-25.95 peak
4 6621.3750	7.58	33.54	47.34	58.15	51.93	74.00	-22.07 peak
5 7266.0000	7.80	36.10	47.24	55.52	52.18	74.00	-21.82 peak
6 p9688.0000	10.34	38.95	46.77	49.66	52.18	74.00	-21.82 peak

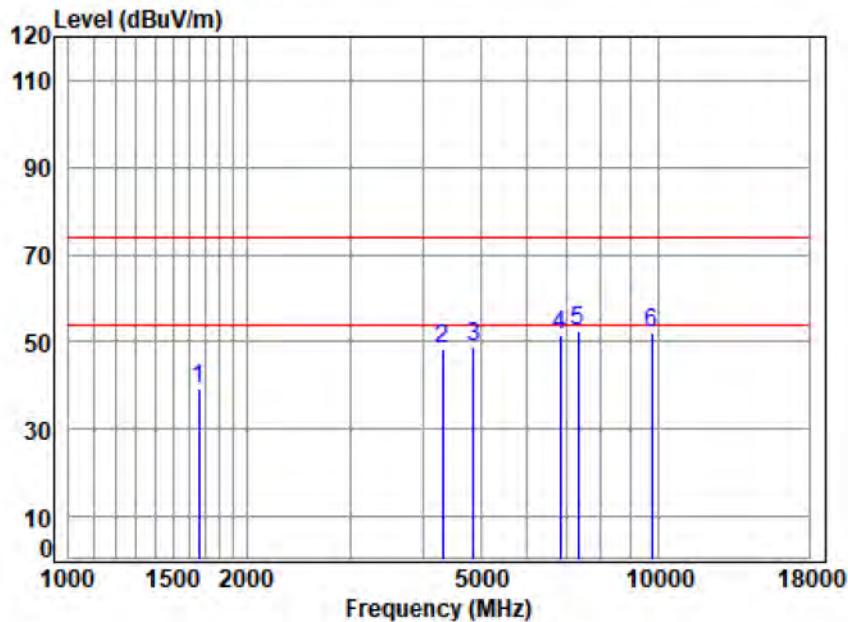


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 24351AT  
Mode : 2437 TX RSE  
: 2.4G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Line	Over	Remark
	Loss	Factor	Factor	Level				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1663.1370	3.41	25.18	48.22	58.99	39.36	74.00	-34.64	peak
2 4316.8590	6.93	29.73	48.06	59.76	48.36	74.00	-25.64	peak
3 4874.0000	7.75	30.80	47.68	57.89	48.76	74.00	-25.24	peak
4 6815.5510	7.57	34.02	47.32	57.38	51.65	74.00	-22.35	peak
5 p7311.0000	7.83	36.17	47.23	55.58	52.35	74.00	-21.65	peak
6 9748.0000	10.42	39.10	46.78	49.28	52.02	74.00	-21.98	peak

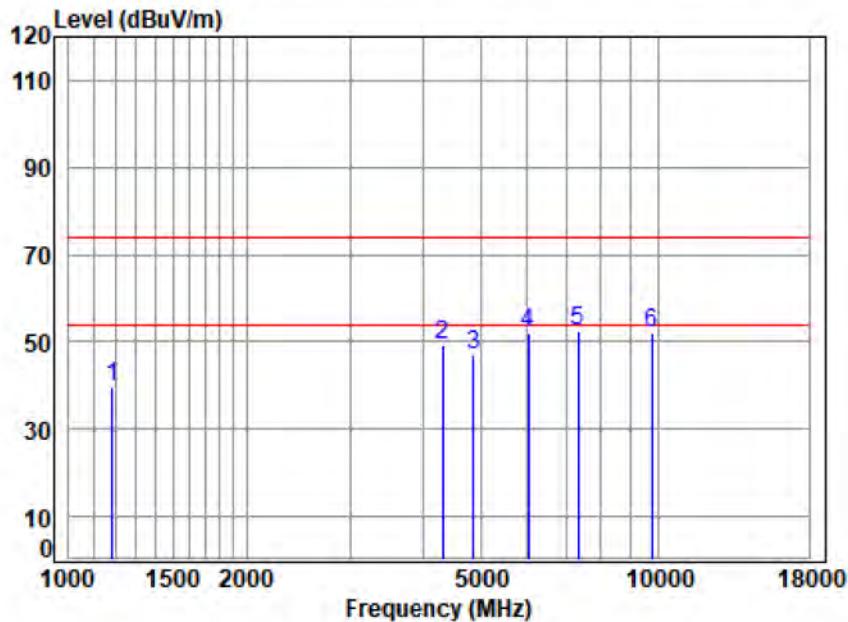


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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 24351AT  
Mode : 2437 TX RSE  
: 2.4G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1185.9360	2.55	25.43	48.07	60.00	39.91	74.00	-34.09 peak
2 4316.8590	6.93	29.73	48.06	60.56	49.16	74.00	-24.84 peak
3 4874.0000	7.75	30.80	47.68	56.26	47.13	74.00	-26.87 peak
4 6018.9990	7.29	31.88	47.40	60.11	51.88	74.00	-22.12 peak
5 p7311.0000	7.83	36.17	47.23	55.63	52.40	74.00	-21.60 peak
6 9748.0000	10.42	39.10	46.78	49.39	52.13	74.00	-21.87 peak

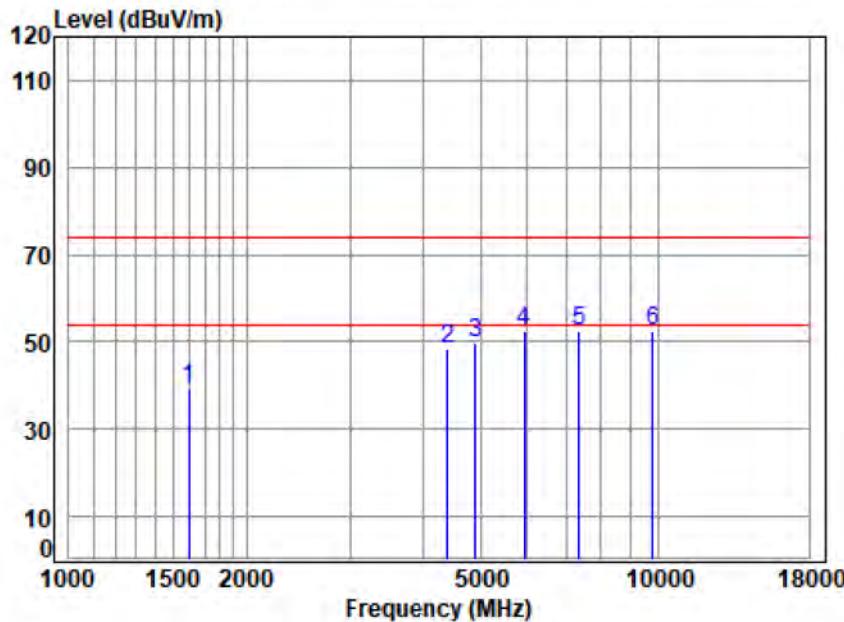


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 24351AT  
Mode : 2452 TX RSE  
: 2.4G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit Level	Limit Line	Over Limit	Remark
	Loss	Factor	Factor	Level		dBuV	dBuV/m	
	MHz	dB	dB/m	dB				
1	1597.1810	3.28	24.73	48.20	59.38	39.19	74.00	-34.81 peak
2	4405.0900	6.95	29.83	48.00	59.40	48.18	74.00	-25.82 peak
3	4904.0000	7.81	30.81	47.66	58.89	49.85	74.00	-24.15 peak
4	5932.6380	7.32	31.67	47.41	60.99	52.57	74.00	-21.43 peak
5	57356.0000	7.87	36.44	47.23	55.57	52.65	74.00	-21.35 peak
6	9808.0000	10.50	39.32	46.78	49.26	52.30	74.00	-21.70 peak

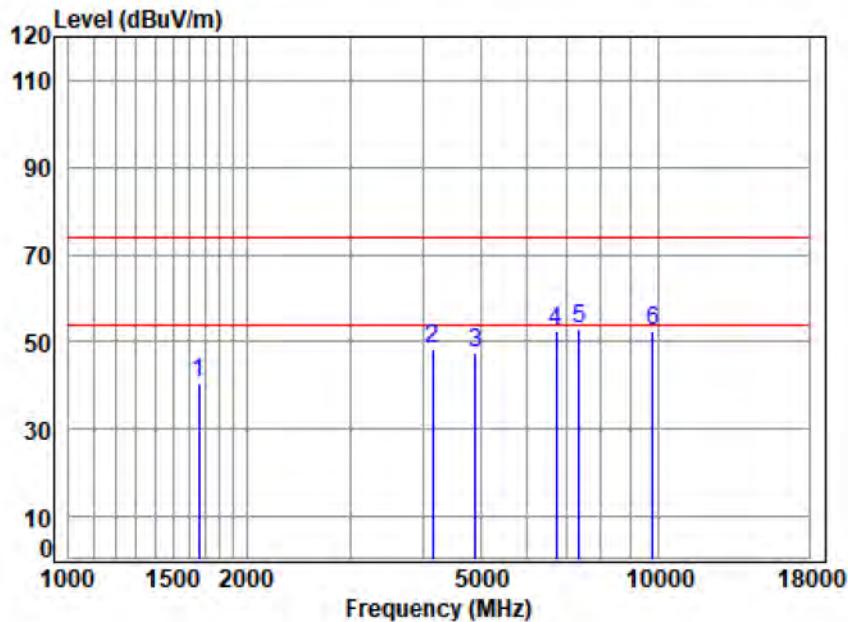
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 24351AT  
 Mode : 2452 TX RSE  
 : 2.4G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 1663.1370	3.41	25.18	48.22	60.27	40.64	74.00	-33.36 peak
2 4145.6640	6.90	29.20	48.19	60.41	48.32	74.00	-25.68 peak
3 4904.0000	7.81	30.81	47.66	56.58	47.54	74.00	-26.46 peak
4 6717.7620	7.58	33.70	47.33	58.46	52.41	74.00	-21.59 peak
5 p7356.0000	7.87	36.44	47.23	55.86	52.94	74.00	-21.06 peak
6 9808.0000	10.50	39.32	46.78	49.53	52.57	74.00	-21.43 peak

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## 8 Test Setup Photo

Refer to Appendix - test setup Photos for SZCR2112024351AT.

## 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2112024351AT

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## 10 Appendix

### 1. Duty Cycle

#### 1.1 Ant1

##### 1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T <sub>on</sub> (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	SISO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00

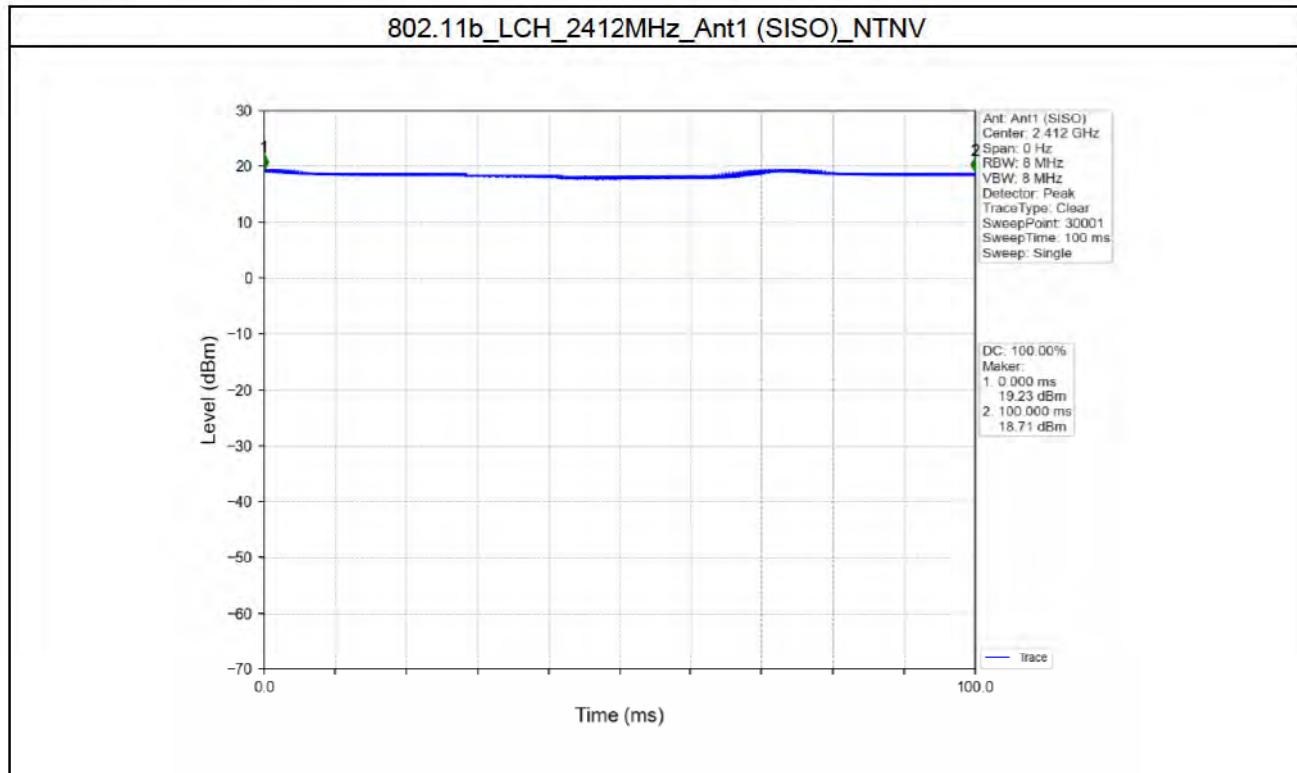
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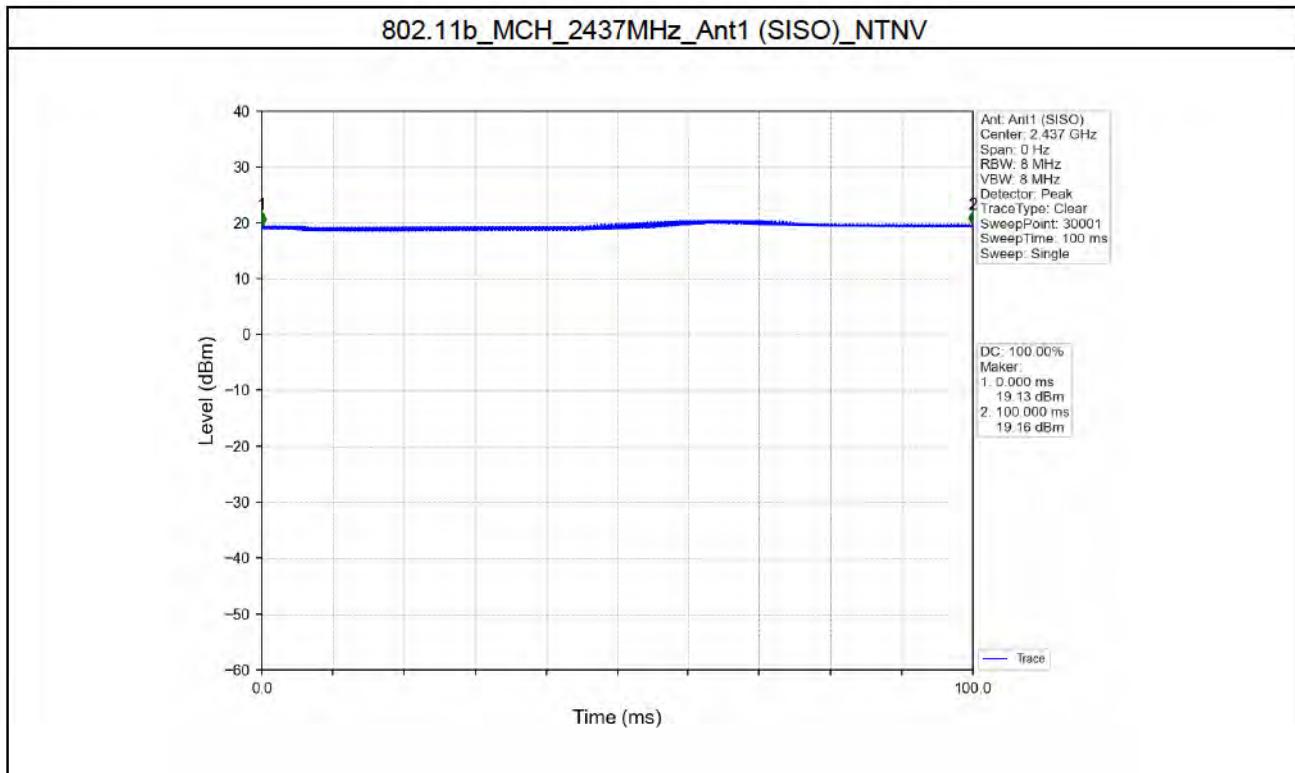
### 1.1.2 Test Graph



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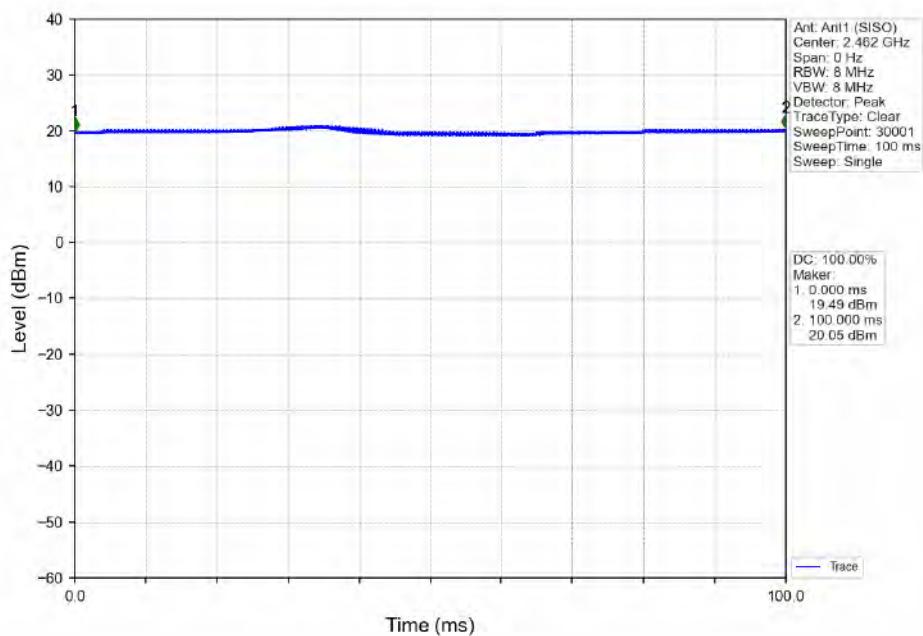


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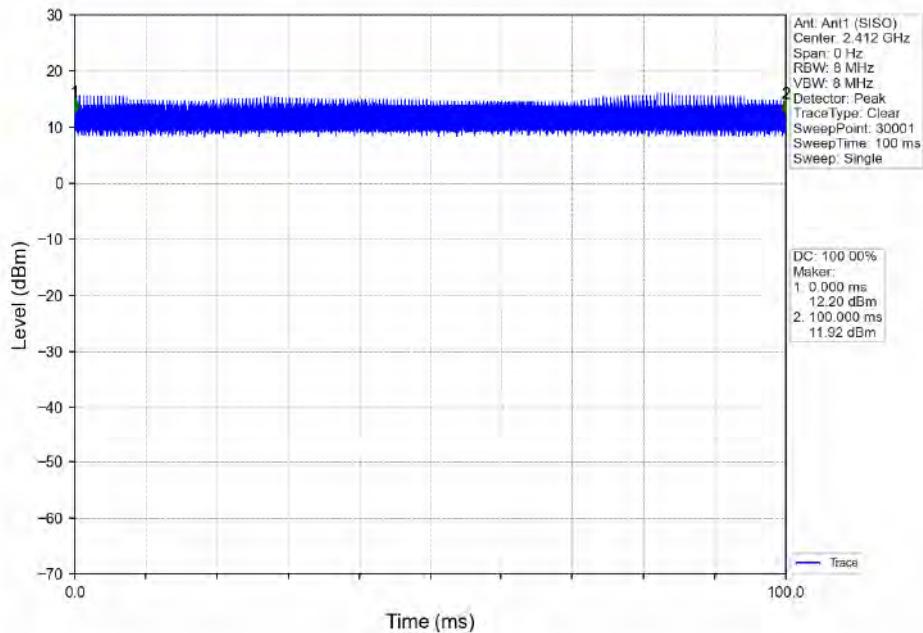
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## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



## 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

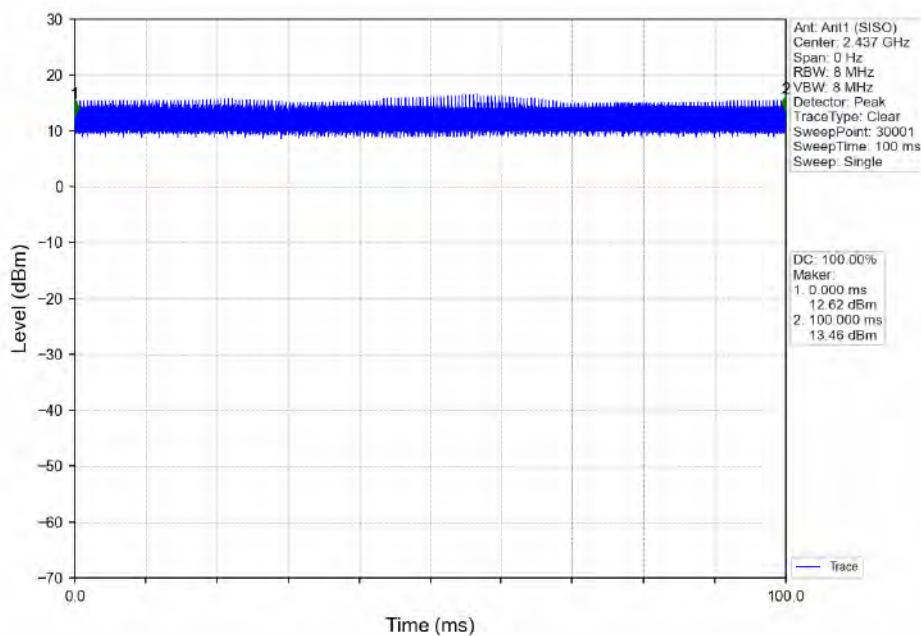


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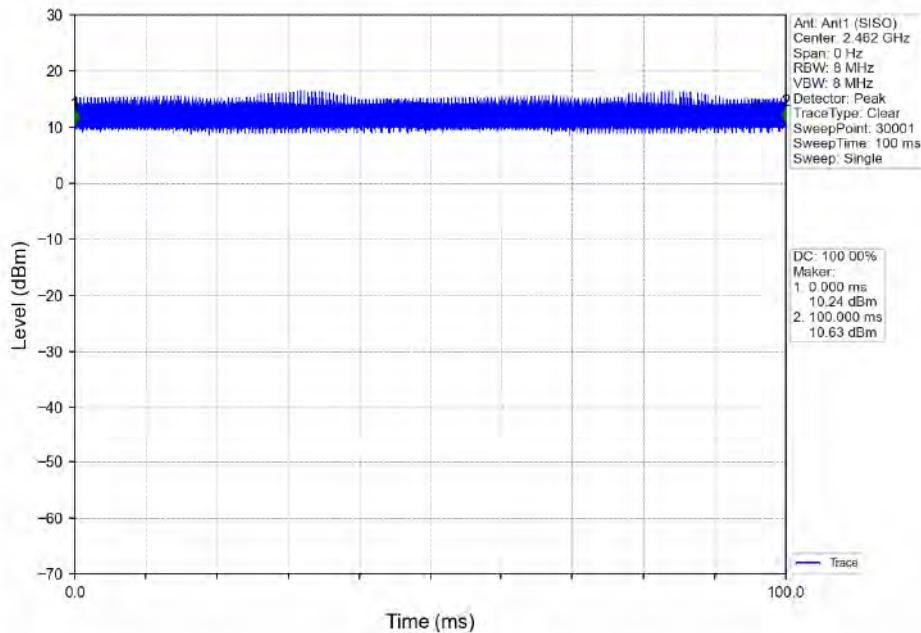
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## 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



## 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

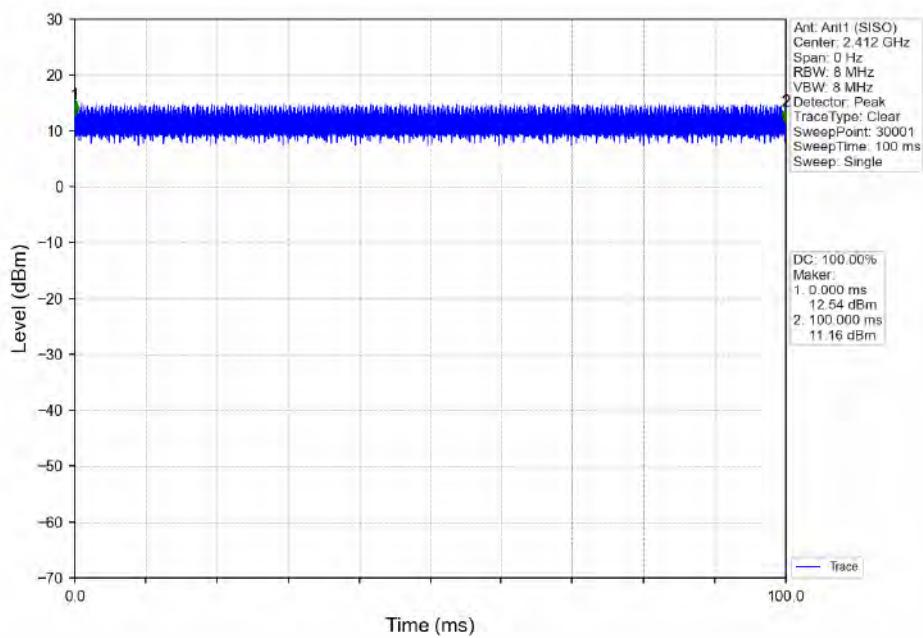


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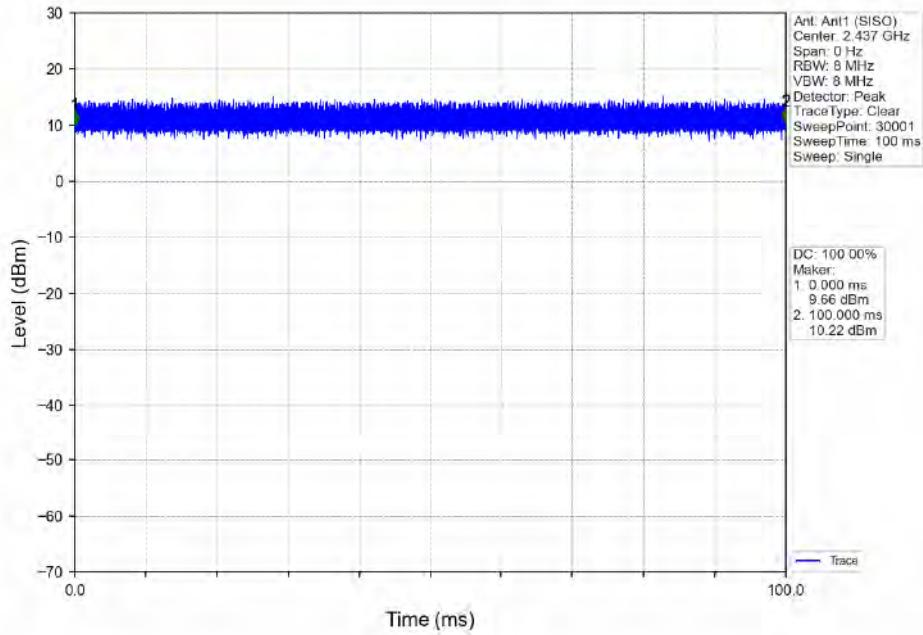
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## 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



## 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

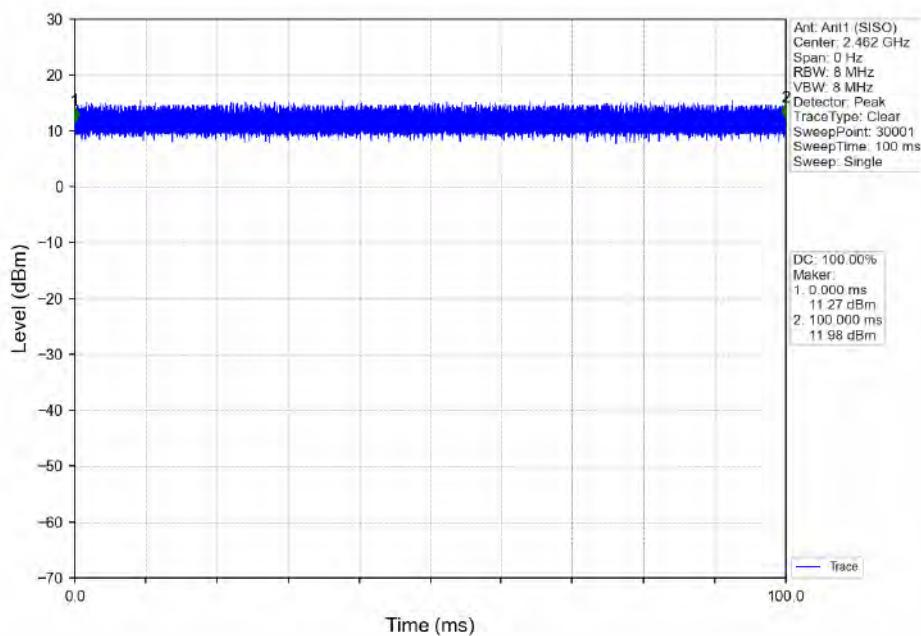


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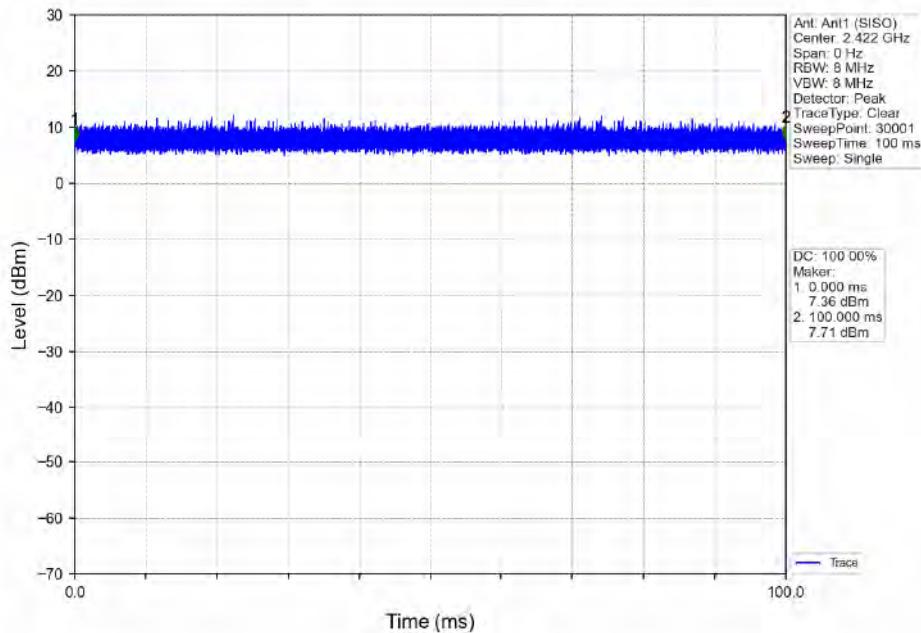
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## 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



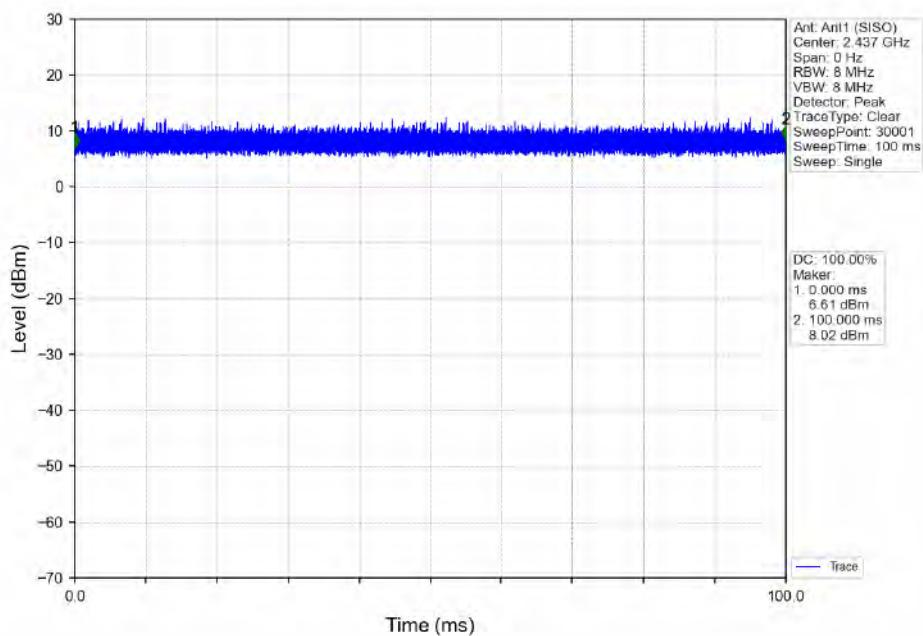
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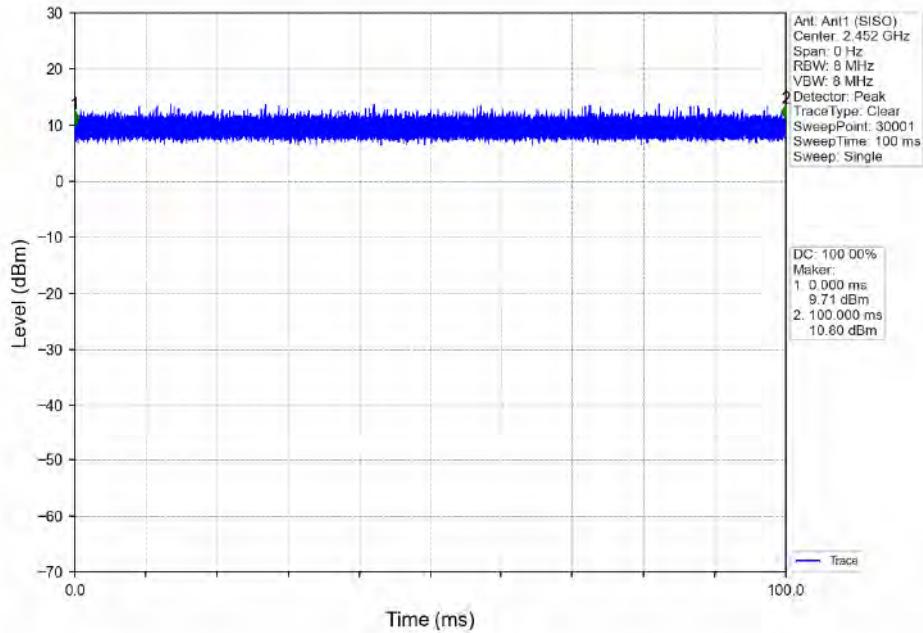


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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	13.339	Pass
		2437	1	13.305	Pass
		2462	1	13.307	Pass
802.11g	SISO	2412	1	17.623	Pass
		2437	1	17.640	Pass
		2462	1	17.623	Pass
802.11n (HT20)	SISO	2412	1	18.470	Pass
		2437	1	18.470	Pass
		2462	1	18.463	Pass
802.11n (HT40)	SISO	2422	1	37.004	Pass
		2437	1	36.980	Pass
		2452	1	36.958	Pass

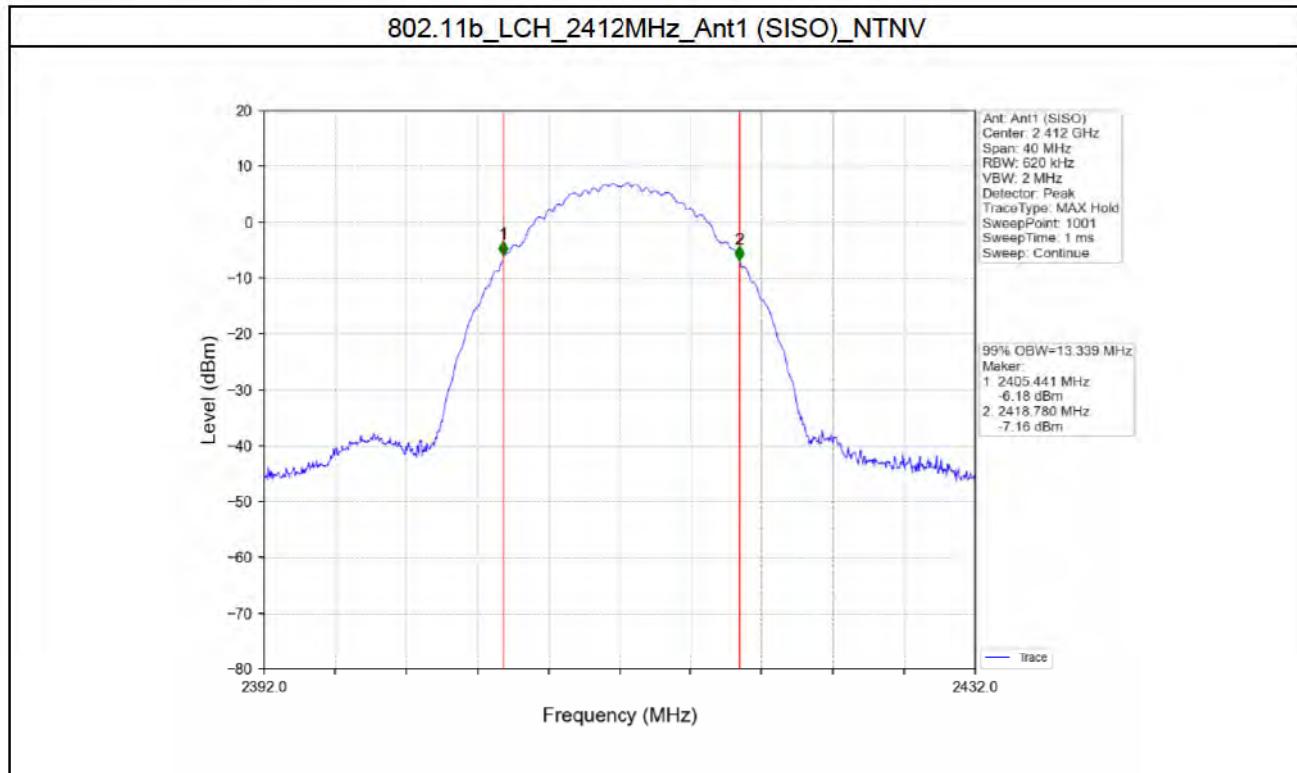
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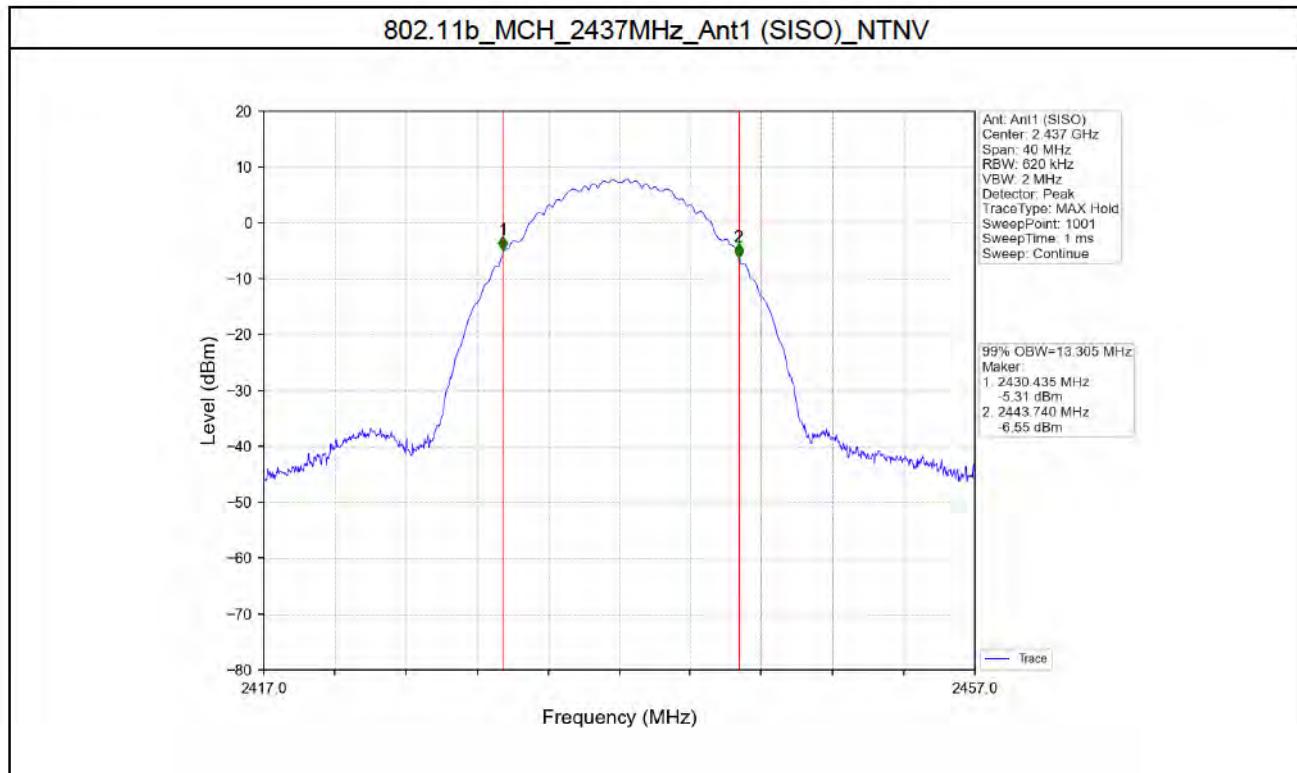
## 2.1.2 Test Graph



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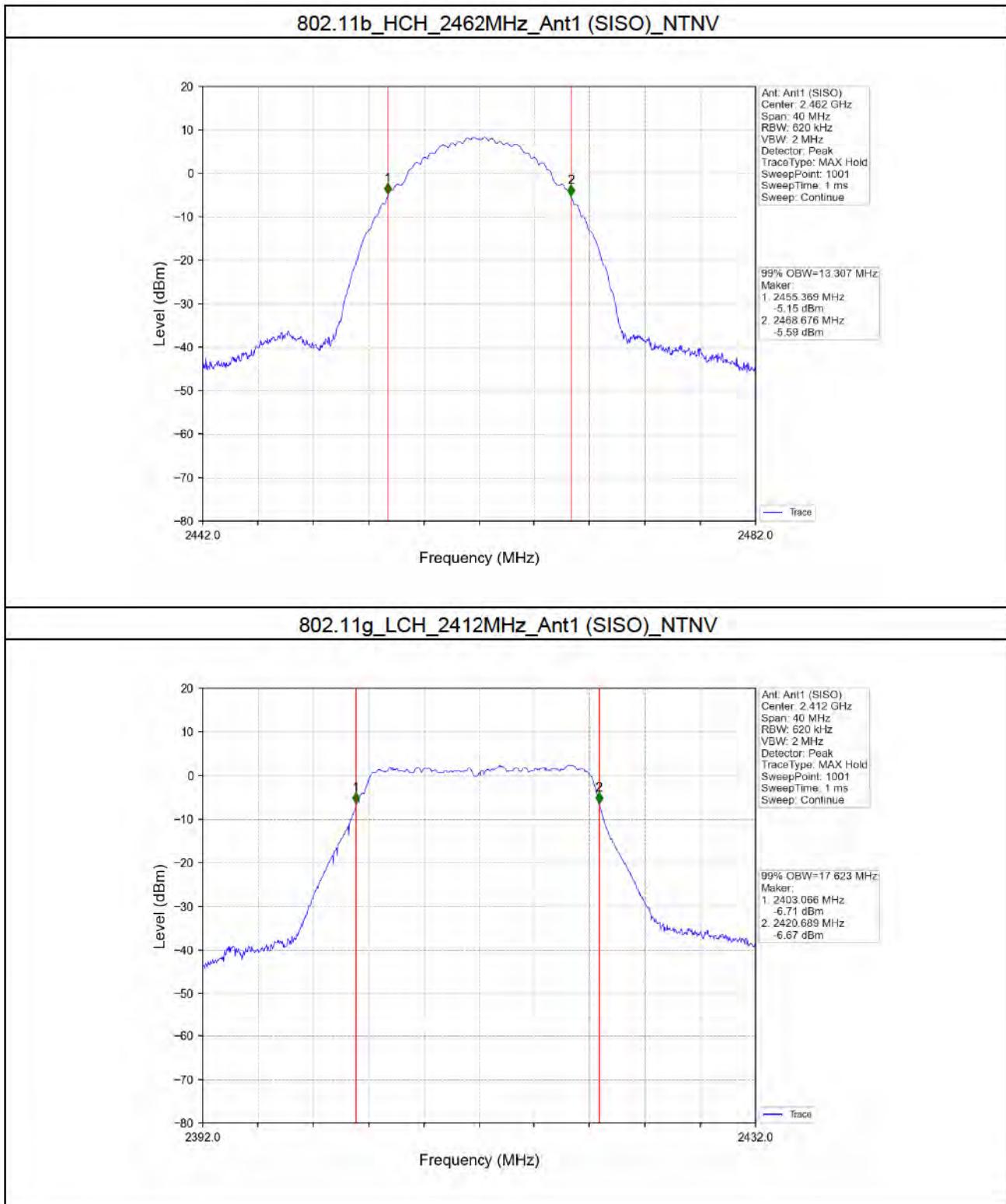


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