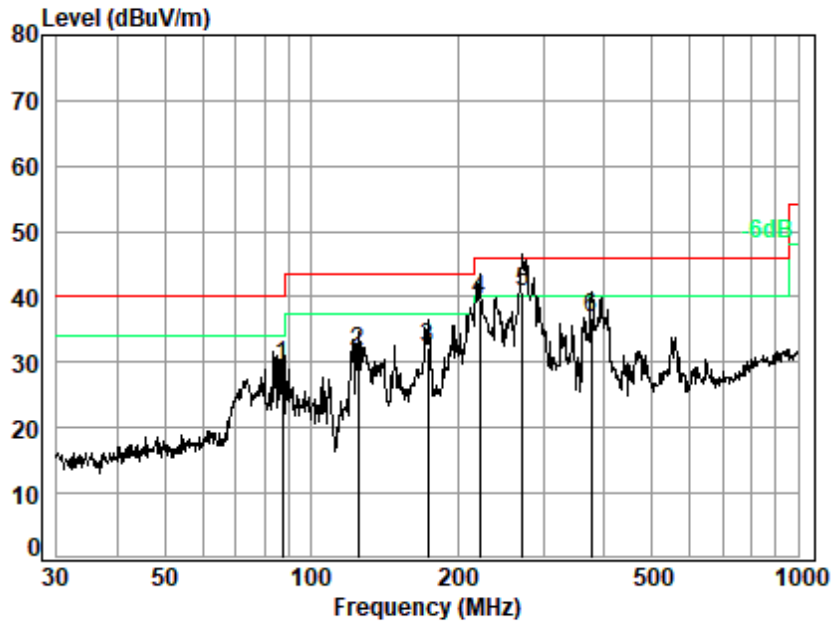


Test Mode: 11; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00032AT
Mode : 11

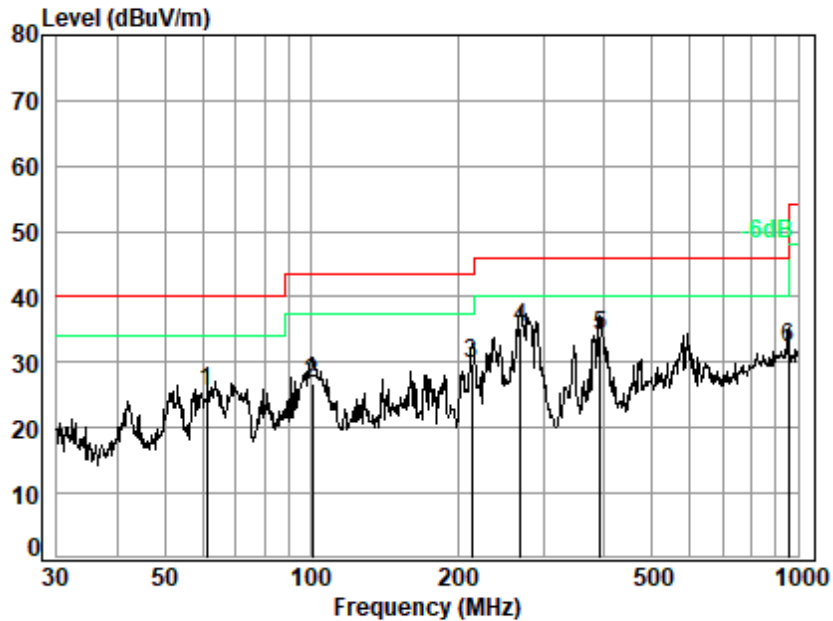
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	87.112	0.61	13.63	25.81	41.16	29.59	40.00	-10.41	QP
2	125.007	0.92	16.17	25.66	40.25	31.68	43.50	-11.82	QP
3	173.814	0.70	16.61	25.45	40.51	32.37	43.50	-11.13	QP
4	221.392	0.75	15.87	25.29	48.26	39.59	46.00	-6.41	QP
5 p	271.325	0.91	17.33	25.16	47.64	40.72	46.00	-5.28	QP
6	375.939	1.61	20.09	25.65	40.79	36.84	46.00	-9.16	QP



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Test Mode: 11; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00032AT
Mode : 11

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	61.132	0.24	16.71	25.84	34.44	25.55	40.00	-14.45	QP
2	100.581	0.84	14.34	25.80	37.30	26.68	43.50	-16.82	QP
3	213.763	0.74	15.65	25.32	38.81	29.88	43.50	-13.62	QP
4 p	269.428	0.90	17.23	25.17	42.38	35.34	46.00	-10.66	QP
5	392.095	1.68	20.60	25.76	37.47	33.99	46.00	-12.01	QP
6	955.438	2.13	29.30	26.28	27.04	32.19	46.00	-13.81	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

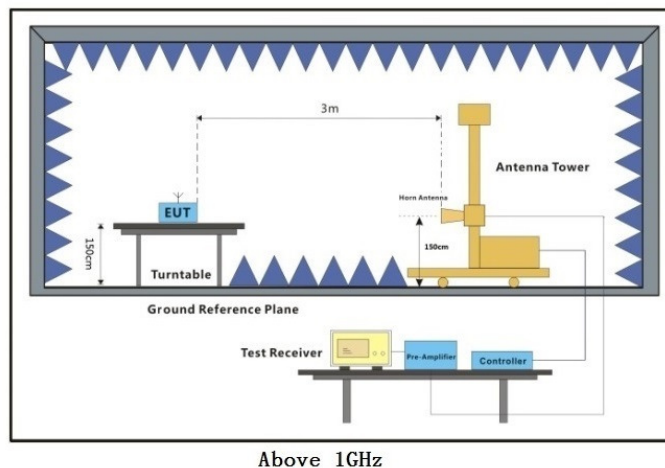
Operating Environment:

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	11	WLPSTPR-10_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



Above 1GHz



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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:

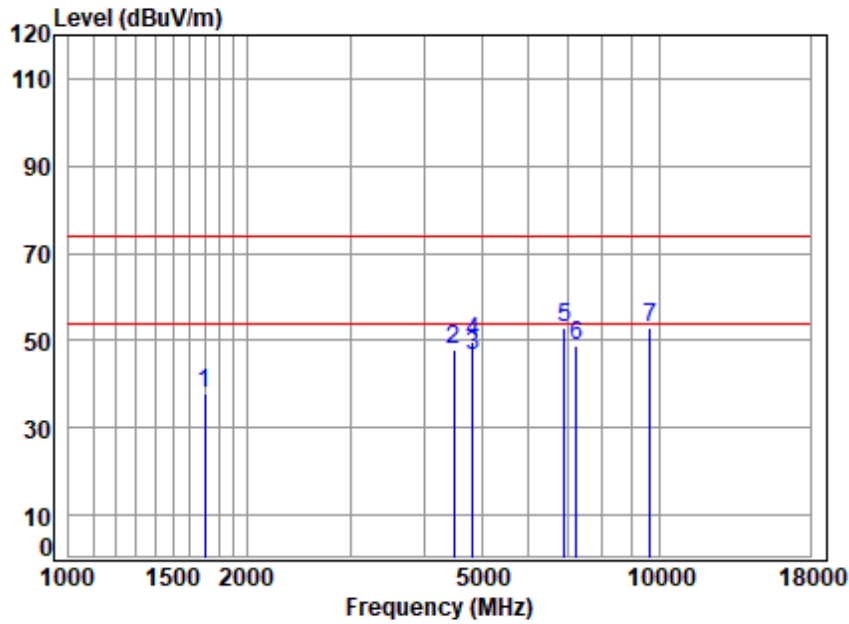
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions 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: 11; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00032AT/00033AT
 Mode : 2412 TX RSE
 : 2.4G WIFI 11B

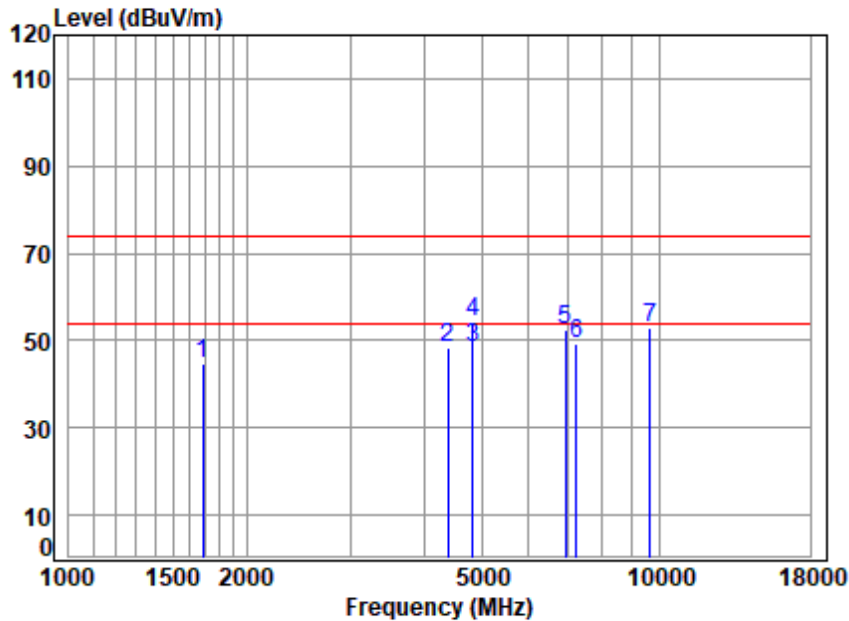
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	4.20	25.01	46.37	54.92	37.76	74.00	-36.24	peak
2	4495.125	7.47	30.19	46.43	56.68	47.91	74.00	-26.09	peak
3	4824.000	8.02	30.99	46.81	54.47	46.67	54.00	-7.33	Average
4	4824.000	8.02	30.99	46.81	57.47	49.67	74.00	-24.33	peak
5	6914.763	8.11	35.60	46.68	55.74	52.77	74.00	-21.23	peak
6	7236.000	8.31	36.09	46.48	51.05	48.97	74.00	-25.03	peak
7	9648.000	11.38	37.62	47.16	51.22	53.06	74.00	-20.94	peak



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Test Mode: 11; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00032AT/00033AT
Mode : 2412 TX RSE
: 2.4G WIFI 11B

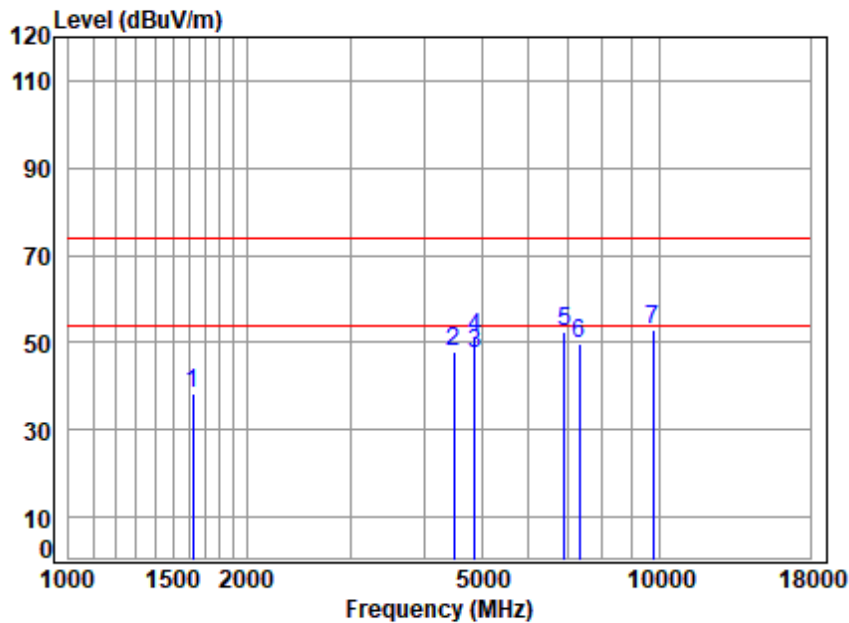
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.347	4.17	24.98	46.37	62.06	44.84	74.00	-29.16	peak
2	4392.376	7.47	30.06	46.30	57.14	48.37	74.00	-25.63	peak
3	4824.000	8.02	30.99	46.81	56.03	48.23	54.00	-5.77	Average
4	4824.000	8.02	30.99	46.81	62.06	54.26	74.00	-19.74	peak
5	6934.778	8.13	35.65	46.69	55.56	52.65	74.00	-21.35	peak
6	7236.000	8.31	36.09	46.48	51.49	49.41	74.00	-24.59	peak
7	9648.000	11.38	37.62	47.16	51.09	52.93	74.00	-21.07	peak



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00032AT/00033AT
 Mode : 2437 TX RSE
 : 2.4G WIFI 11B

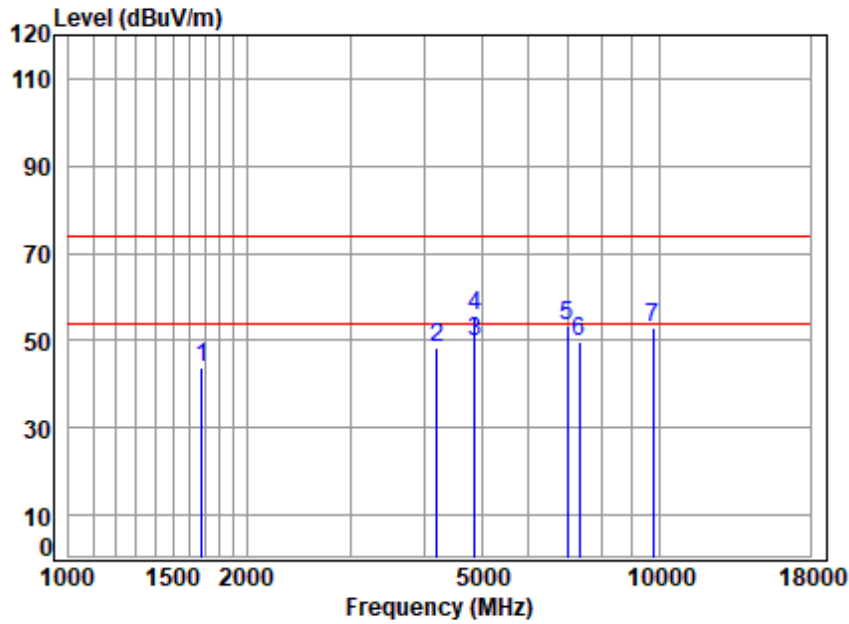
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1625.121	4.04	24.85	46.39	55.76	38.26	74.00	-35.74	peak
2	4482.150	7.47	30.18	46.41	56.72	47.96	74.00	-26.04	peak
3	4874.000	8.10	31.11	46.86	54.96	47.31	54.00	-6.69	Average
4	4874.000	8.10	31.11	46.86	58.96	51.31	74.00	-22.69	peak
5	6894.806	8.09	35.55	46.68	55.61	52.57	74.00	-21.43	peak
6	7311.000	8.34	36.18	46.41	51.41	49.52	74.00	-24.48	peak
7	9748.000	11.30	37.84	47.23	51.04	52.95	74.00	-21.05	peak



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Test Mode: 11; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



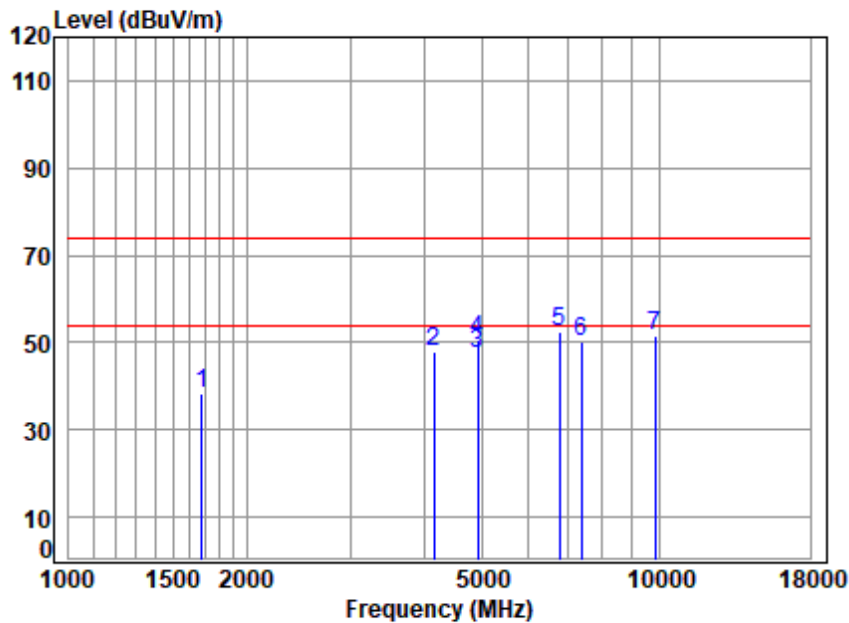
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00032AT/00033AT
 Mode : 2437 TX RSE
 : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	4.15	24.96	46.38	61.29	44.02	74.00	-29.98	peak
2	4206.011	7.48	29.80	46.07	57.32	48.53	74.00	-25.47	peak
3	4874.000	8.10	31.11	46.86	57.53	49.88	54.00	-4.12	Average
4	4874.000	8.10	31.11	46.86	63.31	55.66	74.00	-18.34	peak
5	6995.172	8.19	35.79	46.70	56.06	53.34	74.00	-20.66	peak
6	7311.000	8.34	36.18	46.41	51.62	49.73	74.00	-24.27	peak
7	9748.000	11.30	37.84	47.23	51.22	53.13	74.00	-20.87	peak



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00032AT/00033AT
Mode : 2462 TX RSE
: 2.4G WIFI 11B

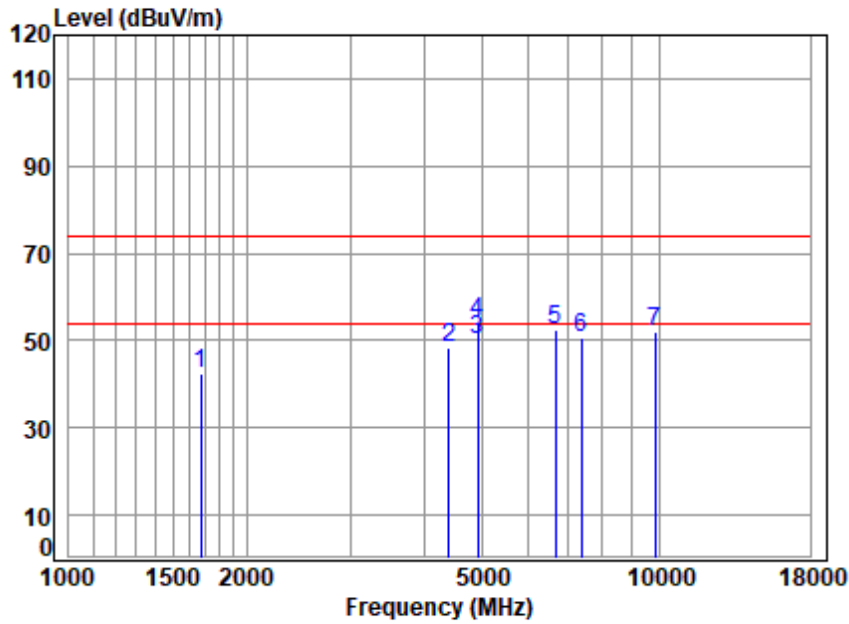
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	4.15	24.96	46.38	55.52	38.25	74.00	-35.75	peak
2	4145.664	7.48	29.71	45.99	56.76	47.96	74.00	-26.04	peak
3	4924.000	8.18	31.23	46.92	55.03	47.52	54.00	-6.48	Average
4	4924.000	8.18	31.23	46.92	58.29	50.78	74.00	-23.22	Peak
5	6776.265	7.98	35.27	46.66	55.97	52.56	74.00	-21.44	peak
6	7386.000	8.38	36.27	46.34	51.74	50.05	74.00	-23.95	peak
7	9848.000	11.23	38.07	47.30	49.76	51.76	74.00	-22.24	peak



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Test Mode: 11; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



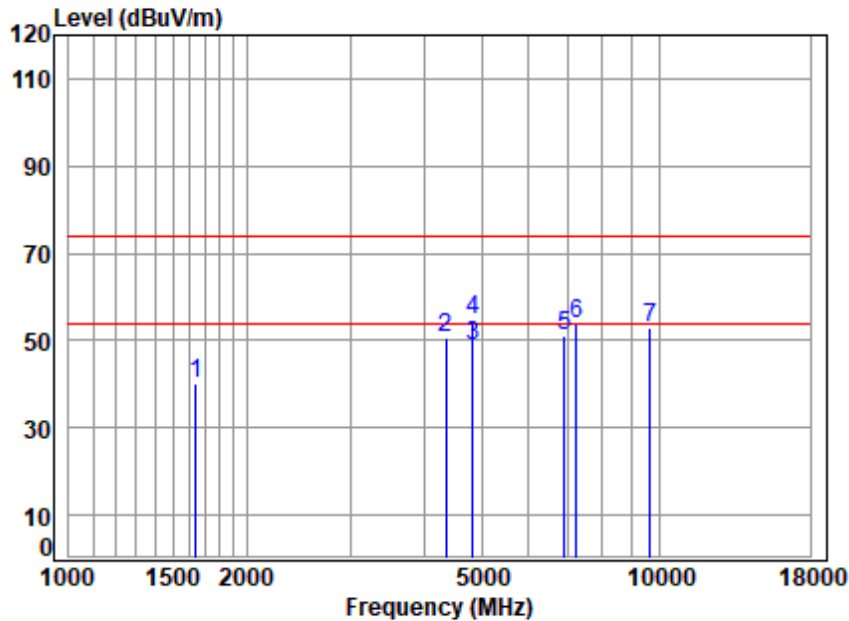
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00032AT/00033AT
 Mode : 2462 TX RSE
 : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	4.14	24.95	46.38	59.95	42.66	74.00	-31.34	peak
2	4405.090	7.47	30.07	46.32	56.97	48.19	74.00	-25.81	peak
3	4924.000	8.18	31.23	46.92	57.49	49.98	54.00	-4.02	Average
4	4924.000	8.18	31.23	46.92	62.01	54.50	74.00	-19.50	Peak
5	6679.040	7.88	35.04	46.64	56.33	52.61	74.00	-21.39	peak
6	7386.000	8.38	36.27	46.34	52.24	50.55	74.00	-23.45	peak
7	9848.000	11.23	38.07	47.30	50.08	52.08	74.00	-21.92	peak



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



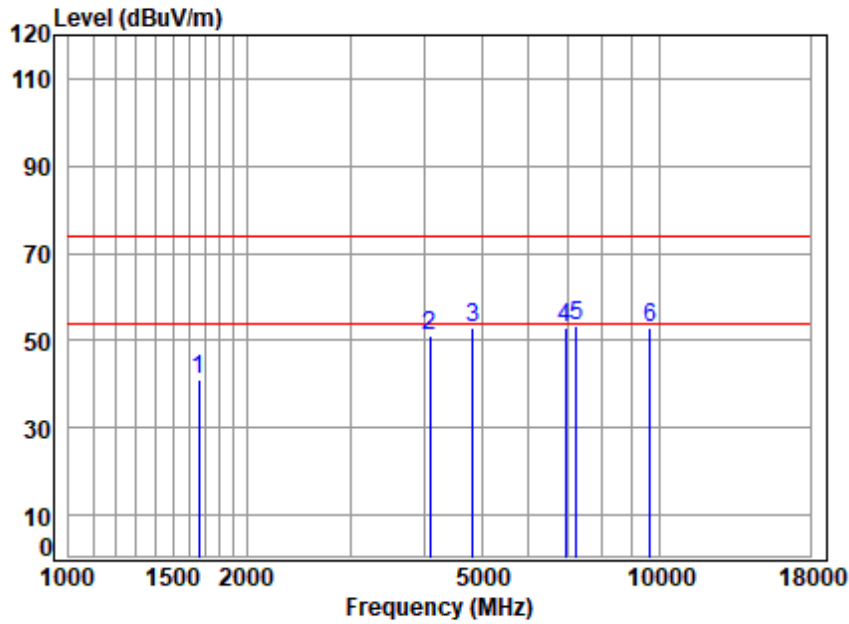
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00032AT/00033AT
 Mode : 2412 RSE TX
 : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1639.274	4.07	24.88	46.39	57.53	40.09	74.00	-33.91	peak
2	4354.454	7.48	30.00	46.26	59.37	50.59	74.00	-23.41	peak
3	4824.000	8.02	30.99	46.81	56.55	48.75	54.00	-5.25	Average
4	4824.000	8.02	30.99	46.81	62.44	54.64	74.00	-19.36	peak
5	6914.763	8.11	35.60	46.68	54.23	51.26	74.00	-22.74	peak
6	7236.000	8.31	36.09	46.48	55.93	53.85	74.00	-20.15	peak
7	9648.000	11.38	37.62	47.16	50.96	52.80	74.00	-21.20	peak



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Test Mode: 11; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00032AT/00033AT
 Mode : 2412 RSE TX
 : 2.4G WIFI 11G

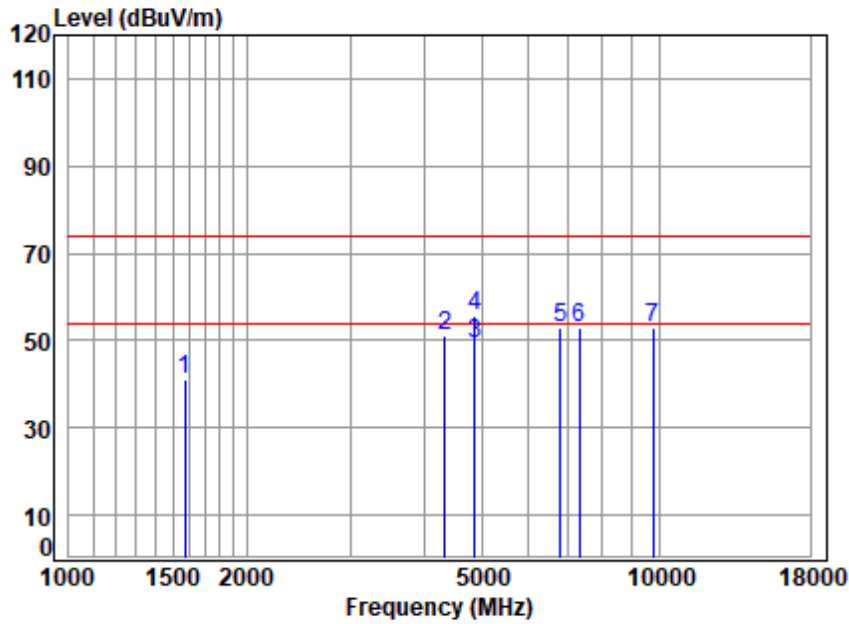
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.137	4.12	24.93	46.38	58.35	41.02	74.00	-32.98	peak
2	4086.182	7.49	29.63	45.91	59.68	50.89	74.00	-23.11	peak
3	4824.000	8.02	30.99	46.81	60.79	52.99	74.00	-21.01	peak
4	6934.778	8.13	35.65	46.69	55.74	52.83	74.00	-21.17	peak
5	7236.000	8.31	36.09	46.48	55.67	53.59	74.00	-20.41	peak
6	9648.000	11.38	37.62	47.16	51.09	52.93	74.00	-21.07	peak



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



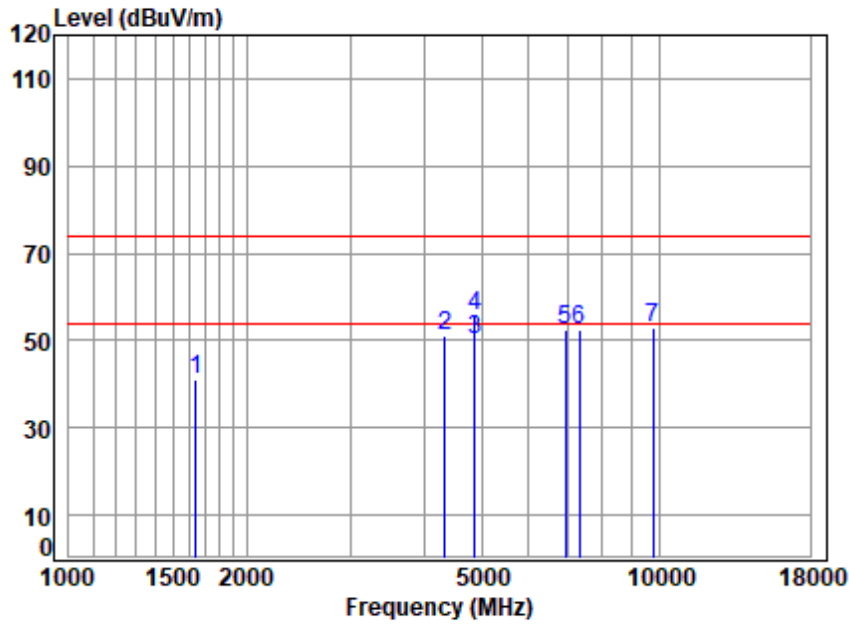
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00032AT/00033AT
 Mode : 2437 RSE TX
 : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1574.265	3.93	24.73	46.40	58.71	40.97	74.00	-33.03	peak
2	4341.886	7.48	29.99	46.24	60.02	51.25	74.00	-22.75	peak
3	4874.000	8.10	31.11	46.86	57.10	49.45	54.00	-4.55	Average
4	4874.000	8.10	31.11	46.86	63.46	55.81	74.00	-18.19	peak
5	6795.879	7.99	35.32	46.66	56.37	53.02	74.00	-20.98	peak
6	7311.000	8.34	36.18	46.41	54.69	52.80	74.00	-21.20	peak
7	9748.000	11.30	37.84	47.23	50.85	52.76	74.00	-21.24	peak



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Test Mode: 11; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00032AT/00033AT
 Mode : 2437 RSE TX
 : 2.4G WIFI 11G

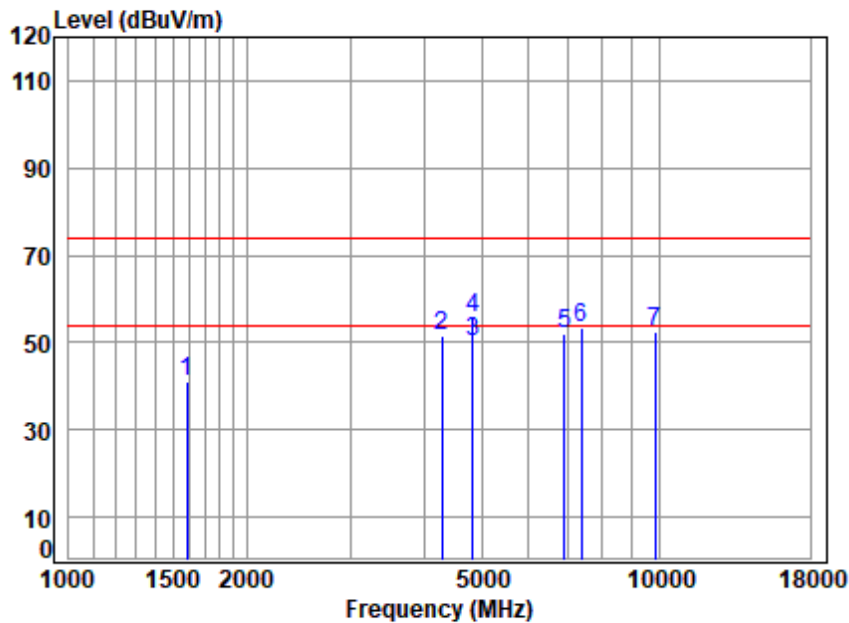
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1644.019	4.08	24.89	46.38	58.28	40.87	74.00	-33.13	peak
2	4341.886	7.48	29.99	46.24	59.97	51.20	74.00	-22.80	peak
3	4874.000	8.10	31.11	46.86	57.79	50.14	54.00	-3.86	Average
4	4874.000	8.10	31.11	46.86	63.25	55.60	74.00	-18.40	peak
5	6934.778	8.13	35.65	46.69	55.32	52.41	74.00	-21.59	peak
6	7311.000	8.34	36.18	46.41	54.54	52.65	74.00	-21.35	peak
7	9748.000	11.30	37.84	47.23	50.92	52.83	74.00	-21.17	peak



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



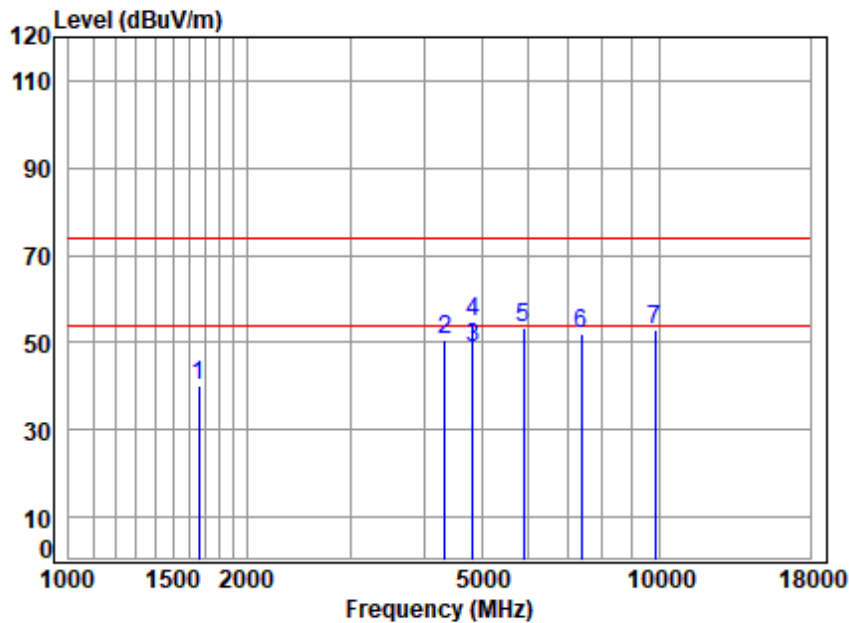
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00032AT/00033AT
 Mode : 2462 RSE TX
 : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1587.975	3.96	24.77	46.40	58.51	40.84	74.00	-33.16	peak
2	4291.977	7.48	29.92	46.18	60.37	51.59	74.00	-22.41	peak
3	4824.000	8.02	30.99	46.81	58.01	50.21	54.00	-3.79	Average
4	4824.000	8.02	30.99	46.81	63.31	55.51	74.00	-18.49	Peak
5	6914.763	8.11	35.60	46.68	54.99	52.02	74.00	-21.98	peak
6	7386.000	8.38	36.27	46.34	55.07	53.38	74.00	-20.62	peak
7	9848.000	11.23	38.07	47.30	50.67	52.67	74.00	-21.33	peak



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Test Mode: 11; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00032AT/00033AT
Mode : 2462 RSE TX
: 2.4G WIFI 11G

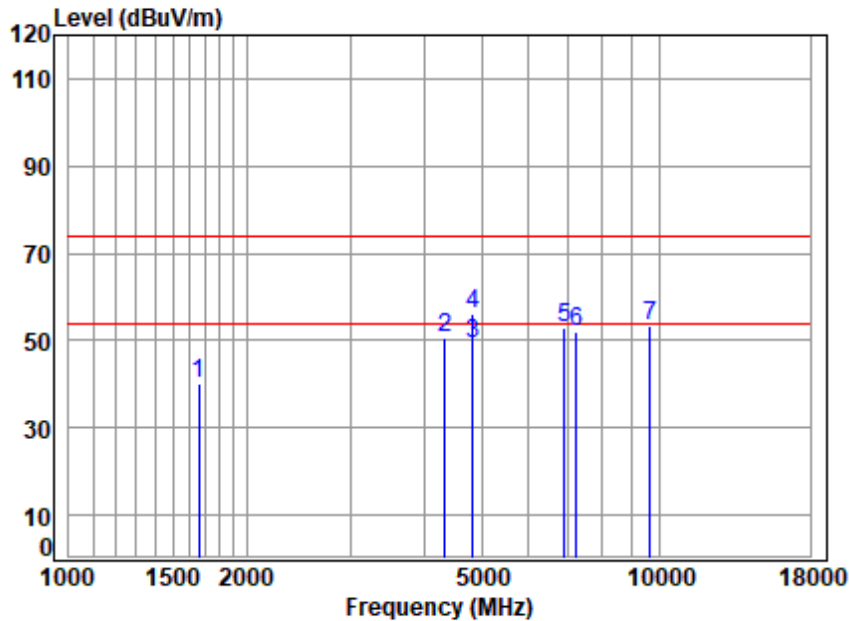
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.137	4.12	24.93	46.38	57.66	40.33	74.00	-33.67	peak
2	4341.886	7.48	29.99	46.24	59.22	50.45	74.00	-23.55	peak
3	4824.000	8.02	30.99	46.81	56.57	48.77	54.00	-5.23	Average
4	4824.000	8.02	30.99	46.81	62.57	54.77	74.00	-19.23	peak
5	5881.418	7.78	32.45	46.55	59.77	53.45	74.00	-20.55	peak
6	7386.000	8.38	36.27	46.34	53.84	52.15	74.00	-21.85	peak
7	9848.000	11.23	38.07	47.30	50.96	52.96	74.00	-21.04	peak



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00032AT/00033AT
 Mode : 2412 RSE TX
 : 2.4G WIFI 11N20

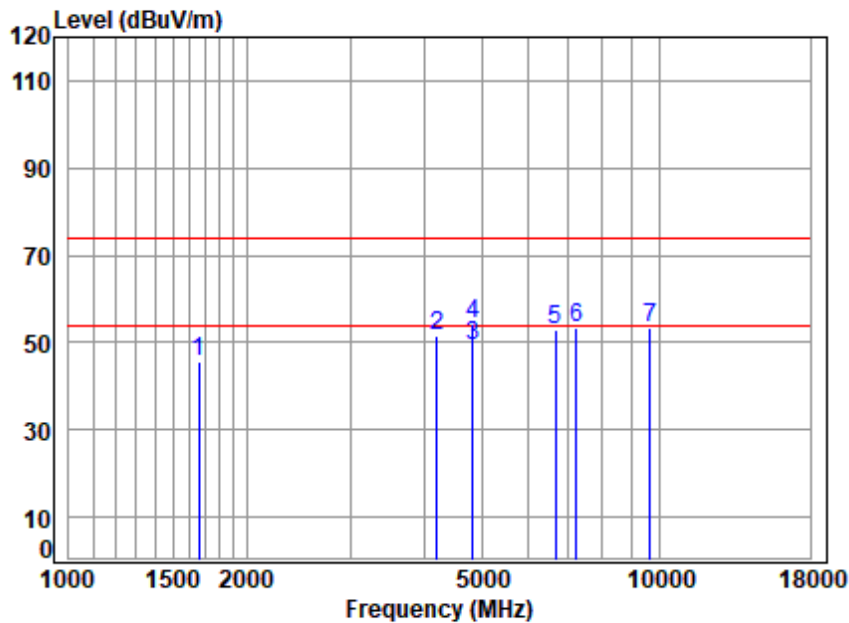
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.337	4.11	24.92	46.38	57.70	40.35	74.00	-33.65	peak
2	4341.886	7.48	29.99	46.24	59.43	50.66	74.00	-23.34	peak
3	4824.000	8.02	30.99	46.81	57.16	49.36	54.00	-4.64	Average
4	4824.000	8.02	30.99	46.81	63.90	56.10	74.00	-17.90	peak
5	6914.763	8.11	35.60	46.68	55.85	52.88	74.00	-21.12	peak
6	7236.000	8.31	36.09	46.48	54.15	52.07	74.00	-21.93	peak
7	9648.000	11.38	37.62	47.16	51.47	53.31	74.00	-20.69	peak



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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



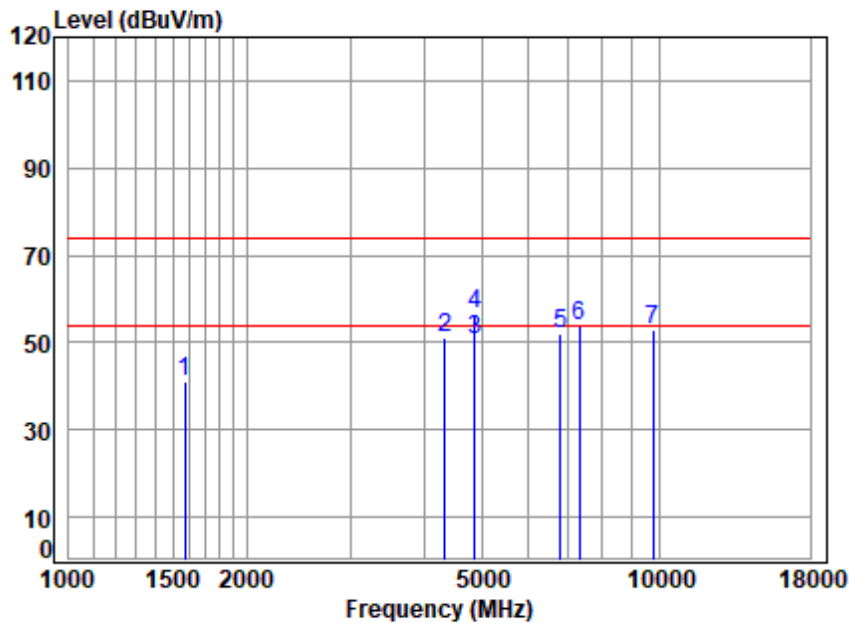
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00032AT/00033AT
 Mode : 2412 RSE TX
 : 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.337	4.11	24.92	46.38	62.96	45.61	74.00	-28.39	peak
2	4206.011	7.48	29.80	46.07	60.20	51.41	74.00	-22.59	peak
3	4824.000	8.02	30.99	46.81	56.92	49.12	54.00	-4.88	Average
4	4824.000	8.02	30.99	46.81	61.92	54.12	74.00	-19.88	peak
5	6679.040	7.88	35.04	46.64	56.70	52.98	74.00	-21.02	peak
6	7236.000	8.31	36.09	46.48	55.63	53.55	74.00	-20.45	peak
7	9648.000	11.38	37.62	47.16	51.54	53.38	74.00	-20.62	peak



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00032AT/00033AT
 Mode : 2437 RSE TX
 : 2.4G WIFI 11N20

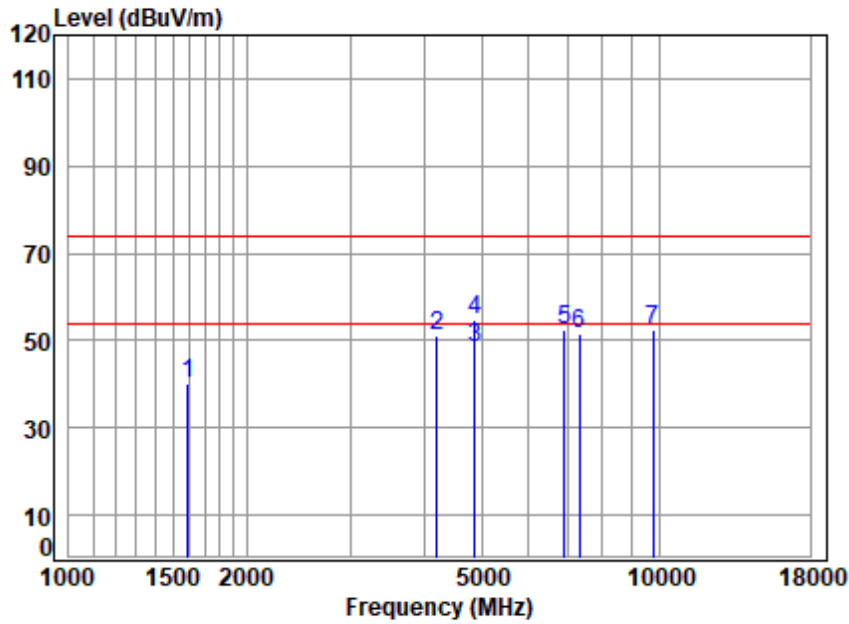
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1574.265	3.93	24.73	46.40	58.71	40.97	74.00	-33.03	peak
2	4341.886	7.48	29.99	46.24	60.02	51.25	74.00	-22.75	peak
3	4874.000	8.10	31.11	46.86	58.12	50.47	54.00	-3.53	Average
4	4874.000	8.10	31.11	46.86	64.46	56.81	74.00	-17.19	Peak
5	6795.879	7.99	35.32	46.66	55.37	52.02	74.00	-21.98	peak
6	7311.000	8.34	36.18	46.41	55.69	53.80	74.00	-20.20	peak
7	9748.000	11.30	37.84	47.23	50.85	52.76	74.00	-21.24	peak



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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00032AT/00033AT
 Mode : 2437 RSE TX
 : 2.4G WIFI 11N20

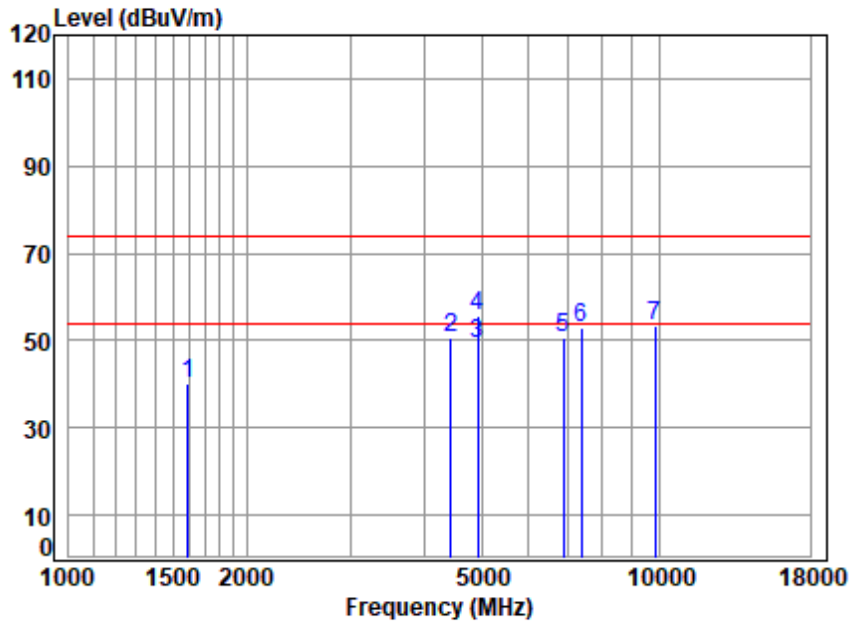
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	3.97	24.78	46.40	57.92	40.27	74.00	-33.73	peak
2	4206.011	7.48	29.80	46.07	59.81	51.02	74.00	-22.98	peak
3	4874.000	8.10	31.11	46.86	55.89	48.24	54.00	-5.76	Average
4	4874.000	8.10	31.11	46.86	62.55	54.90	74.00	-19.10	Peak
5	6914.763	8.11	35.60	46.68	55.56	52.59	74.00	-21.41	peak
6	7311.000	8.34	36.18	46.41	53.28	51.39	74.00	-22.61	peak
7	9748.000	11.30	37.84	47.23	50.46	52.37	74.00	-21.63	peak



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00032AT/00033AT
 Mode : 2462 RSE TX
 : 2.4G WIFI 11N20

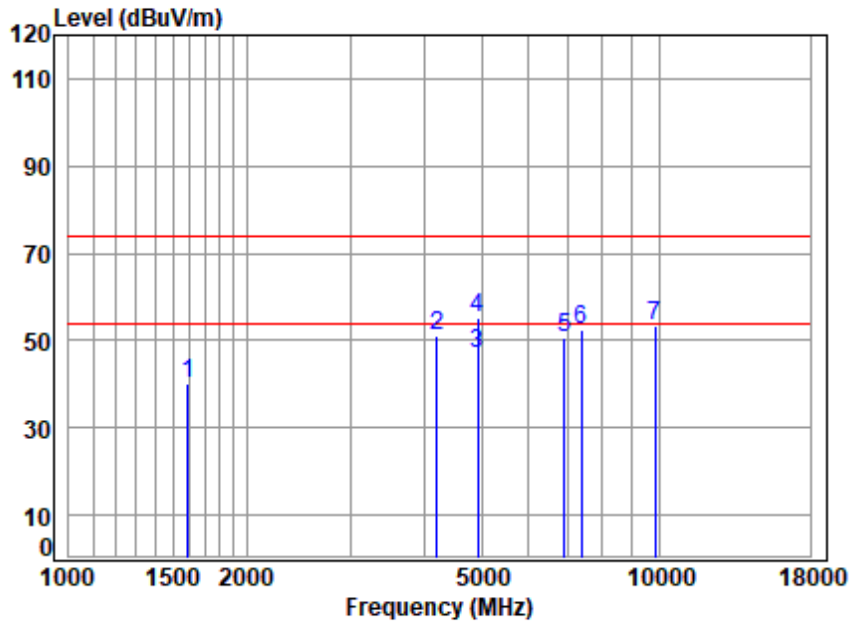
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	3.97	24.78	46.40	57.86	40.21	74.00	-33.79	peak
2	4430.628	7.47	30.11	46.35	59.43	50.66	74.00	-23.34	peak
3	4924.000	8.18	31.23	46.92	56.85	49.34	54.00	-4.66	Average
4	4924.000	8.18	31.23	46.92	63.01	55.50	74.00	-18.50	Peak
5	6874.906	8.07	35.51	46.68	53.60	50.50	74.00	-23.50	peak
6	7386.000	8.38	36.27	46.34	54.46	52.77	74.00	-21.23	peak
7	9848.000	11.23	38.07	47.30	51.22	53.22	74.00	-20.78	peak



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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00032AT/00033AT
 Mode : 2462 RSE TX
 : 2.4G WIFI 11N20

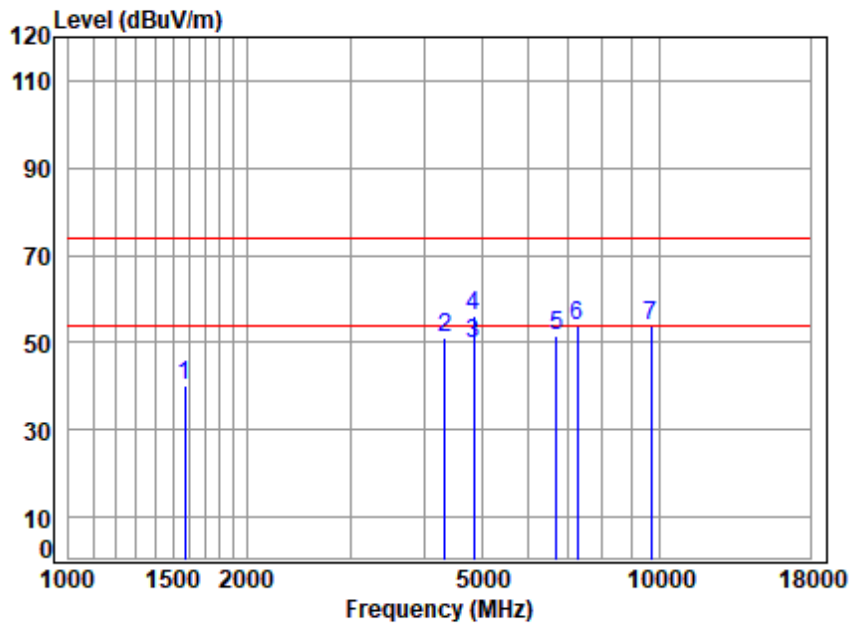
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	3.97	24.78	46.40	57.92	40.27	74.00	-33.73	peak
2	4206.011	7.48	29.80	46.07	59.81	51.02	74.00	-22.98	peak
3	4924.000	8.18	31.23	46.92	54.52	47.01	54.00	-6.99	Average
4	4924.000	8.18	31.23	46.92	62.77	55.26	74.00	-18.74	Peak
5	6914.763	8.11	35.60	46.68	53.56	50.59	74.00	-23.41	peak
6	7386.000	8.38	36.27	46.34	54.11	52.42	74.00	-21.58	peak
7	9848.000	11.23	38.07	47.30	51.52	53.52	74.00	-20.48	peak



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00032AT/00033AT
 Mode : 2422 RSE TX
 : 2.4G WIFI 11N40

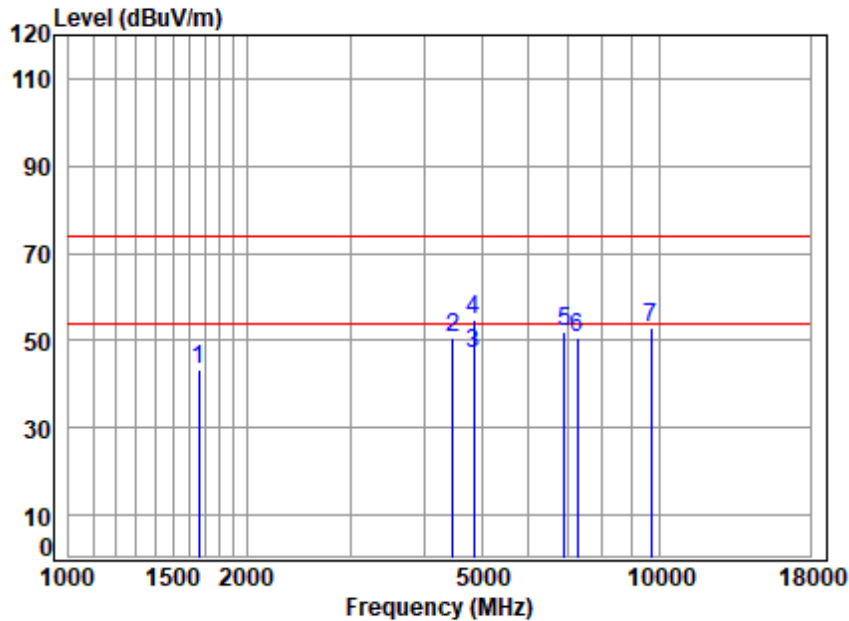
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1574.265	3.93	24.73	46.40	57.88	40.14	74.00	-33.86	peak
2	4329.354	7.48	29.97	46.23	59.67	50.89	74.00	-23.11	peak
3	4844.000	8.05	31.04	46.83	57.51	49.77	54.00	-4.23	Average
4	4844.000	8.05	31.04	46.83	64.02	56.28	74.00	-17.72	peak
5	6698.373	7.90	35.09	46.64	55.24	51.59	74.00	-22.41	peak
6	7266.000	8.32	36.12	46.45	55.66	53.65	74.00	-20.35	peak
7	9688.000	11.35	37.71	47.19	51.80	53.67	74.00	-20.33	peak



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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



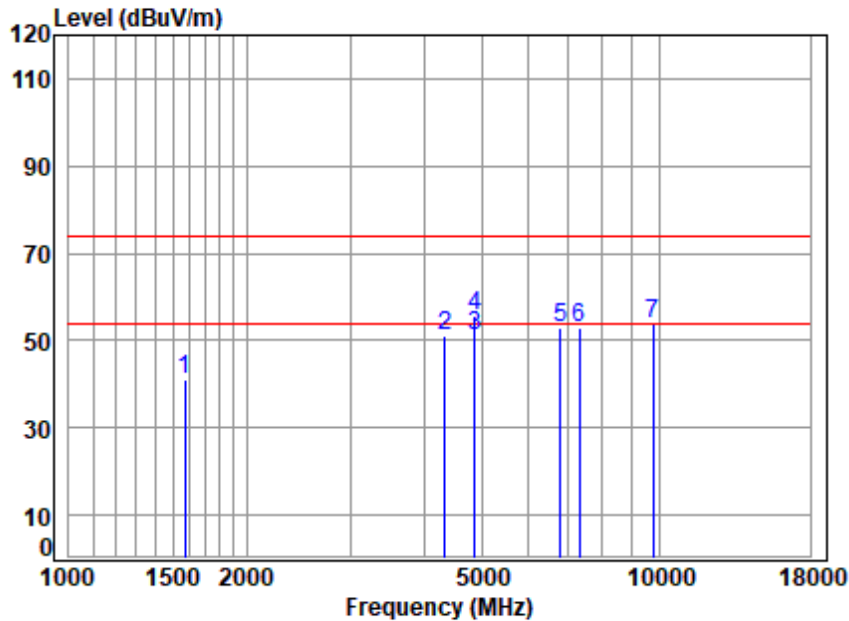
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00032AT/00033AT
 Mode : 2422 RSE TX
 : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.337	4.11	24.92	46.38	60.56	43.21	74.00	-30.79	peak
2	4469.214	7.47	30.16	46.40	59.29	50.52	74.00	-23.48	peak
3	4844.000	8.05	31.04	46.83	54.72	46.98	54.00	-7.02	Average
4	4844.000	8.05	31.04	46.83	62.45	54.71	74.00	-19.29	peak
5	6894.806	8.09	35.55	46.68	55.26	52.22	74.00	-21.78	peak
6	7266.000	8.32	36.12	46.45	52.46	50.45	74.00	-23.55	peak
7	9688.000	11.35	37.71	47.19	51.14	53.01	74.00	-20.99	peak



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00032AT/00033AT
 Mode : 2437 RSE TX
 : 2.4G WIFI 11N40

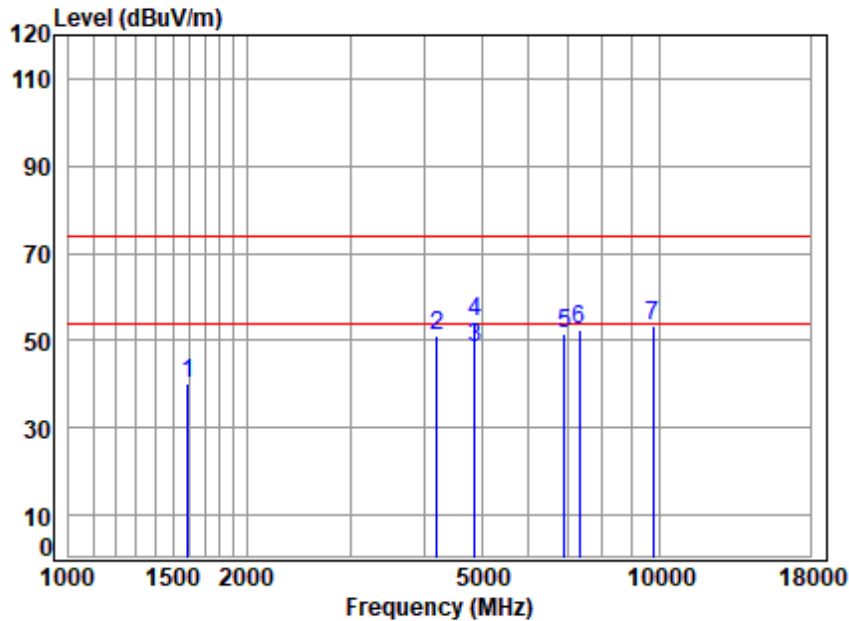
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1574.265	3.93	24.73	46.40	58.71	40.97	74.00	-33.03	peak
2	4341.886	7.48	29.99	46.24	60.02	51.25	74.00	-22.75	peak
3	4874.000	8.10	31.11	46.86	58.63	50.98	54.00	-3.02	Average
4	4874.000	8.10	31.11	46.86	63.46	55.81	74.00	-18.19	Peak
5	6795.879	7.99	35.32	46.66	56.37	53.02	74.00	-20.98	peak
6	7311.000	8.34	36.18	46.41	54.69	52.80	74.00	-21.20	peak
7	9748.000	11.30	37.84	47.23	51.85	53.76	74.00	-20.24	peak



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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00032AT/00033AT
 Mode : 2437 RSE TX
 : 2.4G WIFI 11N40

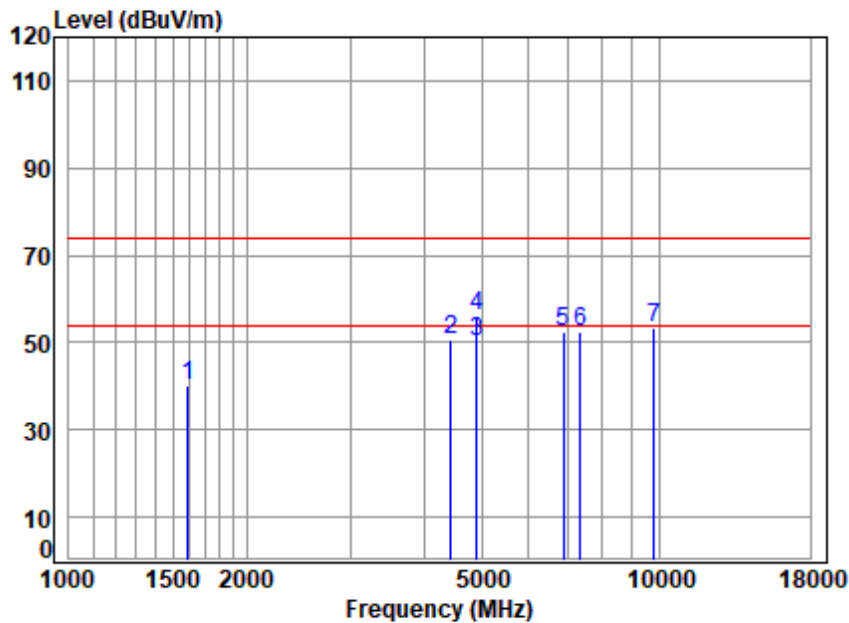
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	3.97	24.78	46.40	57.92	40.27	74.00	-33.73	peak
2	4206.011	7.48	29.80	46.07	59.81	51.02	74.00	-22.98	peak
3	4874.000	8.10	31.11	46.86	55.89	48.24	54.00	-5.76	Average
4	4874.000	8.10	31.11	46.86	62.15	54.50	74.00	-19.50	Peak
5	6914.763	8.11	35.60	46.68	54.56	51.59	74.00	-22.41	peak
6	7311.000	8.34	36.18	46.41	54.28	52.39	74.00	-21.61	peak
7	9748.000	11.30	37.84	47.23	51.46	53.37	74.00	-20.63	peak



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



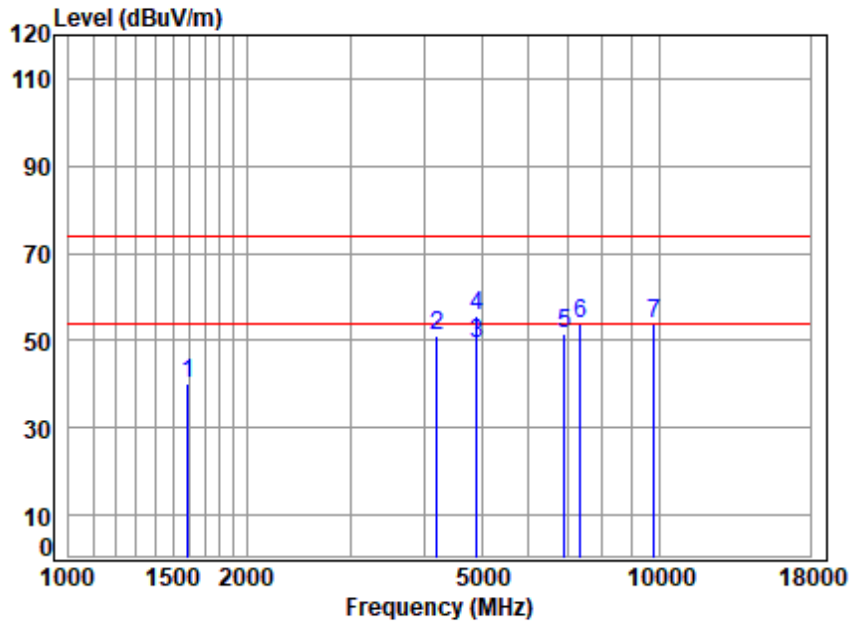
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00032AT/00033AT
 Mode : 2452 RSE TX
 : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	3.97	24.78	46.40	57.86	40.21	74.00	-33.79	peak
2	4430.628	7.47	30.11	46.35	59.43	50.66	74.00	-23.34	peak
3	4904.000	8.15	31.18	46.90	57.75	50.18	54.00	-3.82	Average
4	4904.000	8.15	31.18	46.90	63.57	56.00	74.00	-18.00	peak
5	6874.906	8.07	35.51	46.68	55.60	52.50	74.00	-21.50	peak
6	7356.000	8.36	36.23	46.37	54.47	52.69	74.00	-21.31	peak
7	9808.000	11.26	37.98	47.27	51.25	53.22	74.00	-20.78	peak



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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00032AT/00033AT
 Mode : 2452 RSE TX
 : 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	3.97	24.78	46.40	57.92	40.27	74.00	-33.73	peak
2	4206.011	7.48	29.80	46.07	59.81	51.02	74.00	-22.98	peak
3	4904.000	8.15	31.18	46.90	56.81	49.24	54.00	-4.76	Average
4	4904.000	8.15	31.18	46.90	63.11	55.54	74.00	-18.46	Peak
5	6914.763	8.11	35.60	46.68	54.56	51.59	74.00	-22.41	peak
6	7356.000	8.36	36.23	46.37	55.75	53.97	74.00	-20.03	peak
7	9808.000	11.26	37.98	47.27	51.79	53.76	74.00	-20.24	peak



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8 Test Setup Photo

Refer to Appendix - Test Setup Photos for FYCR2203000032AT.

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2203000032AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

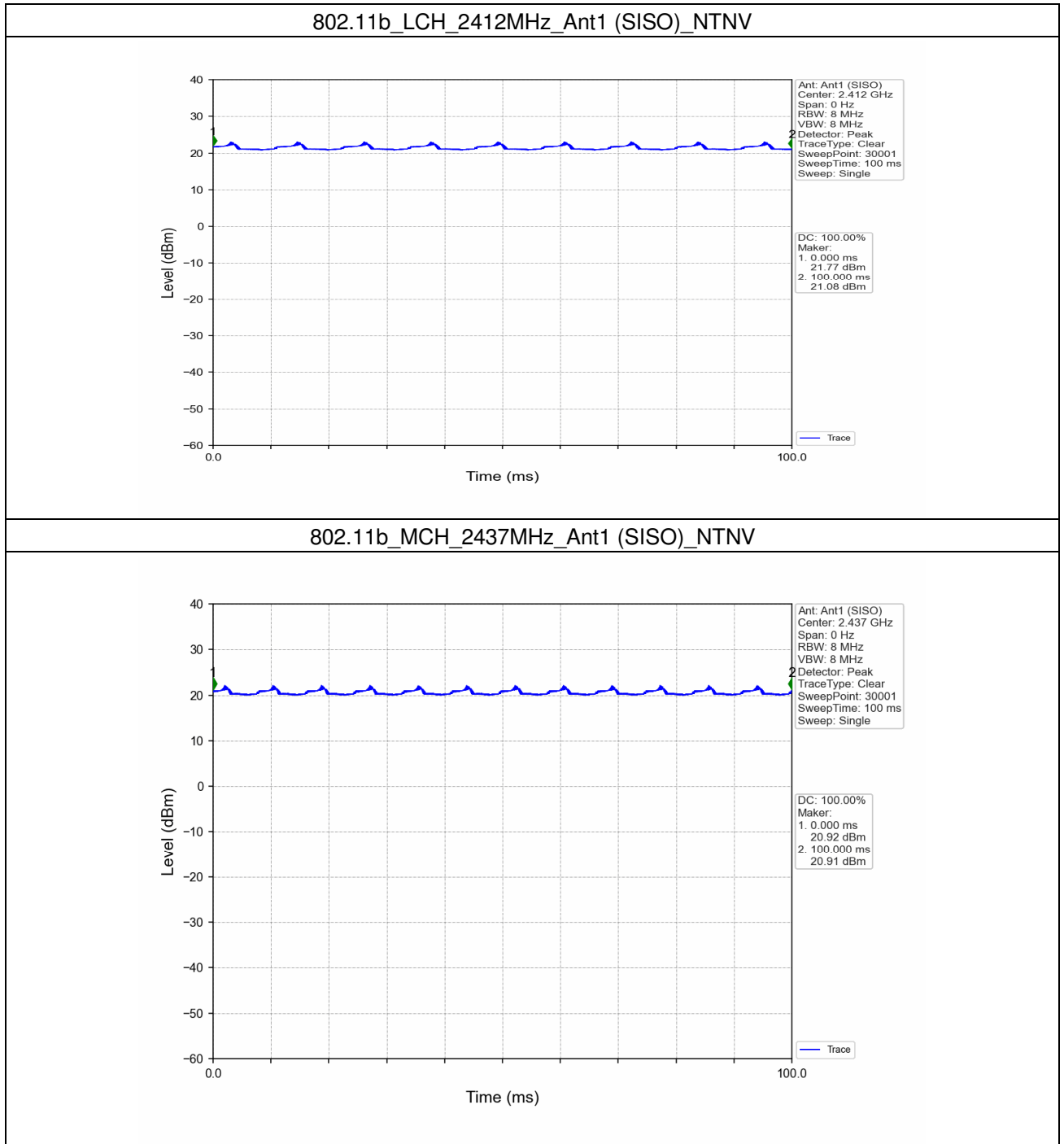
1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	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



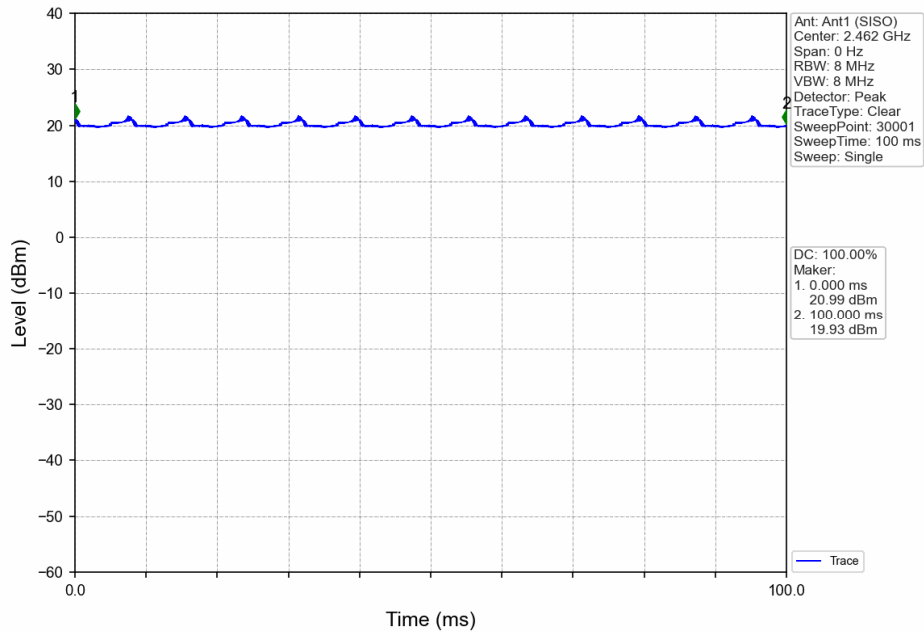
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1.1.2 Test Graph

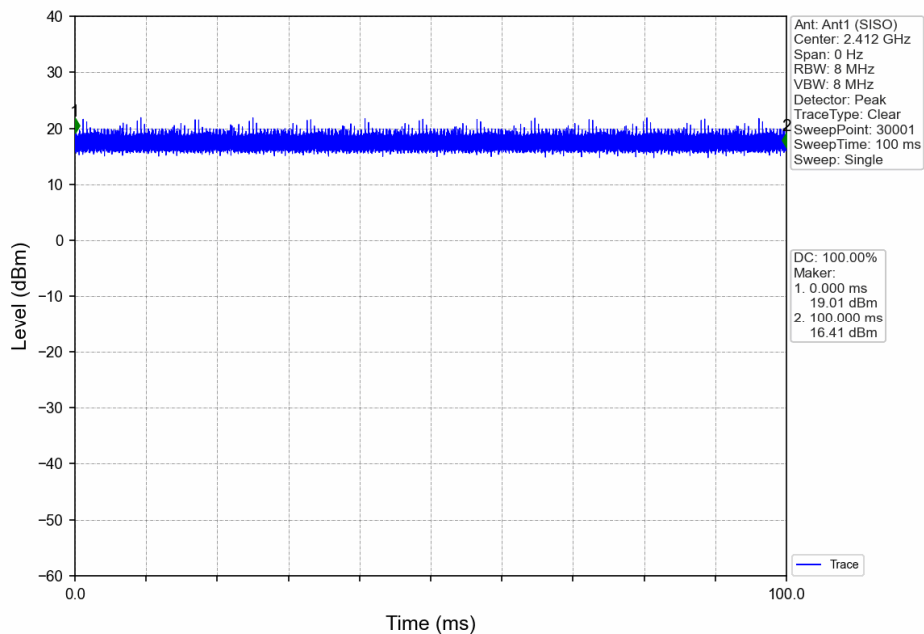


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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



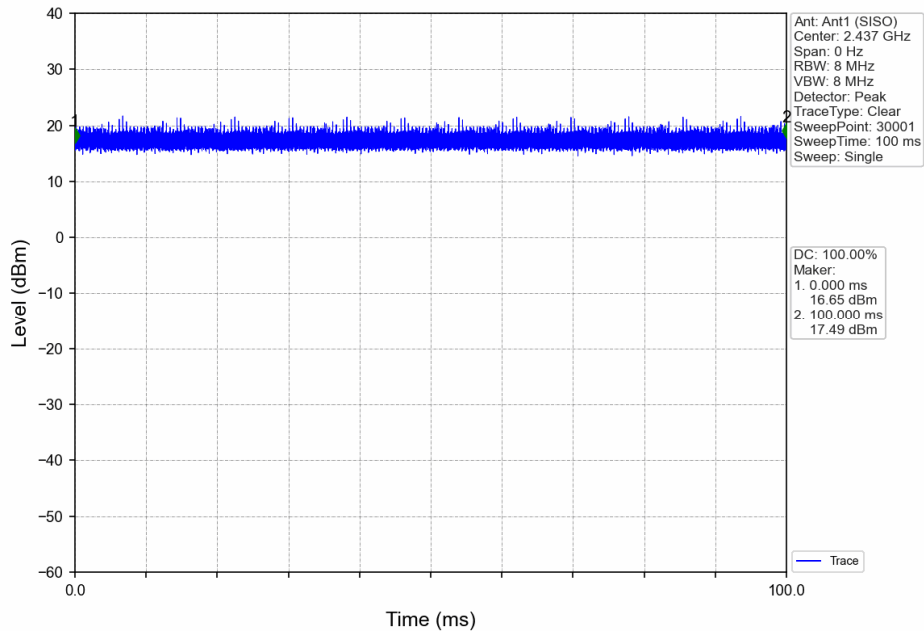
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



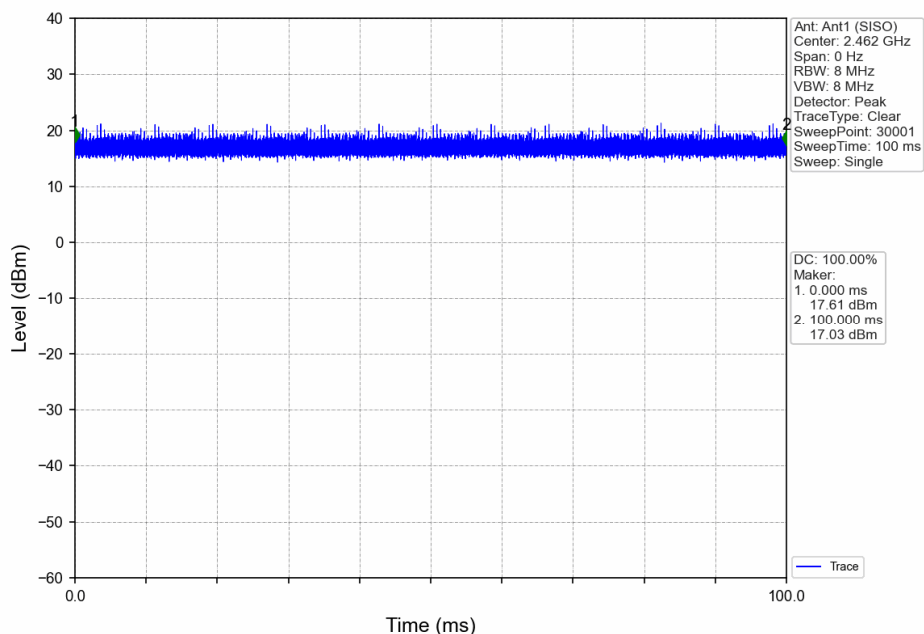
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

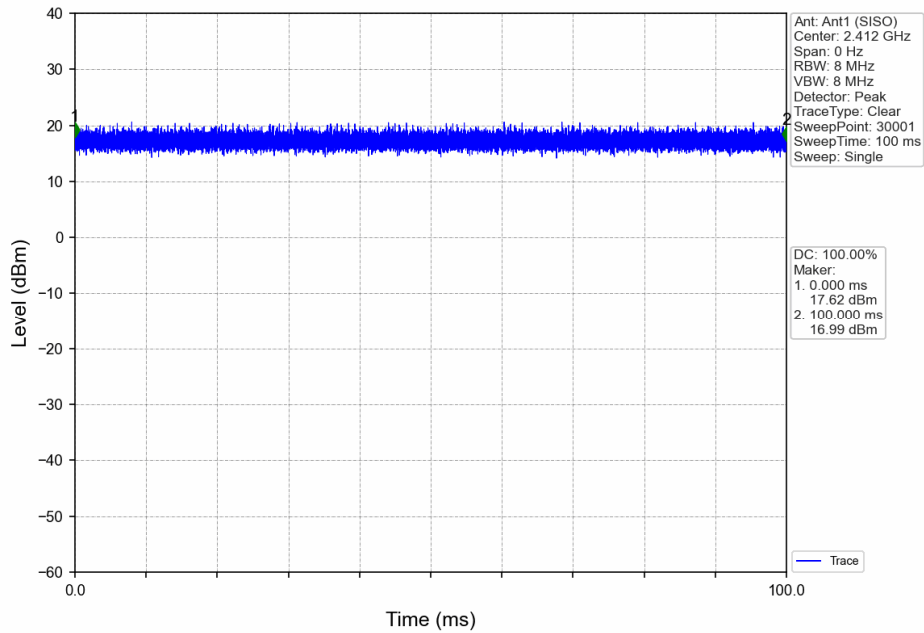


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

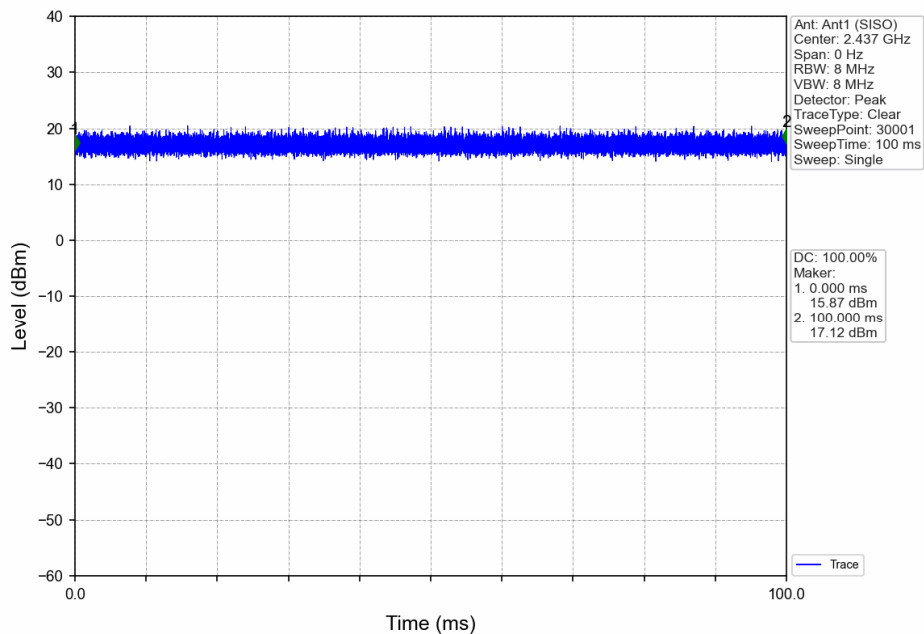


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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

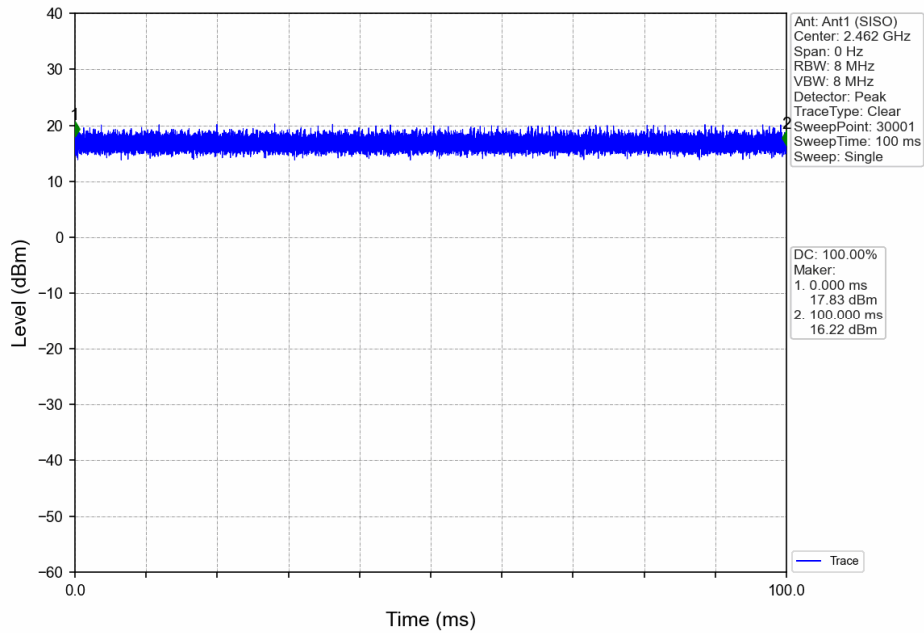


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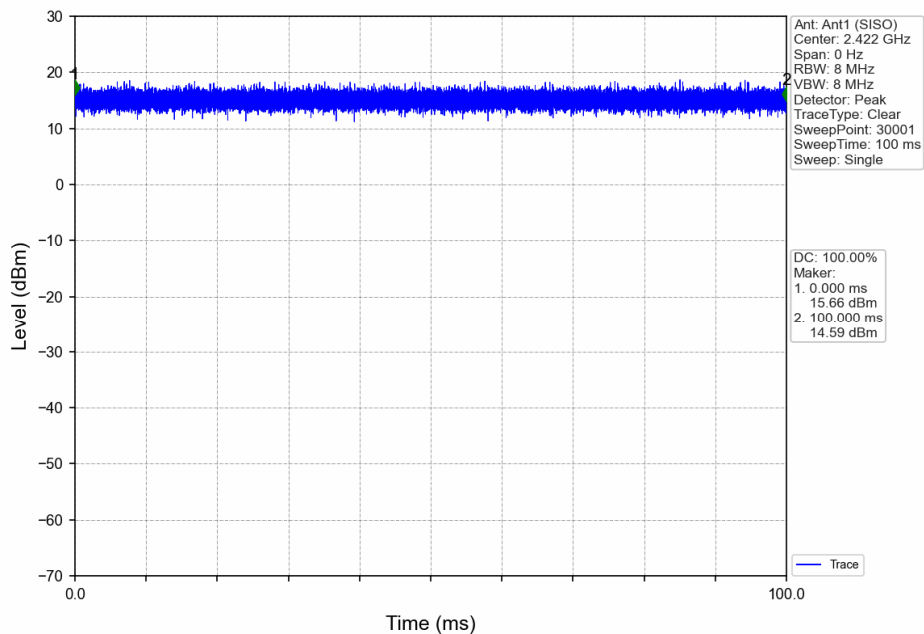


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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



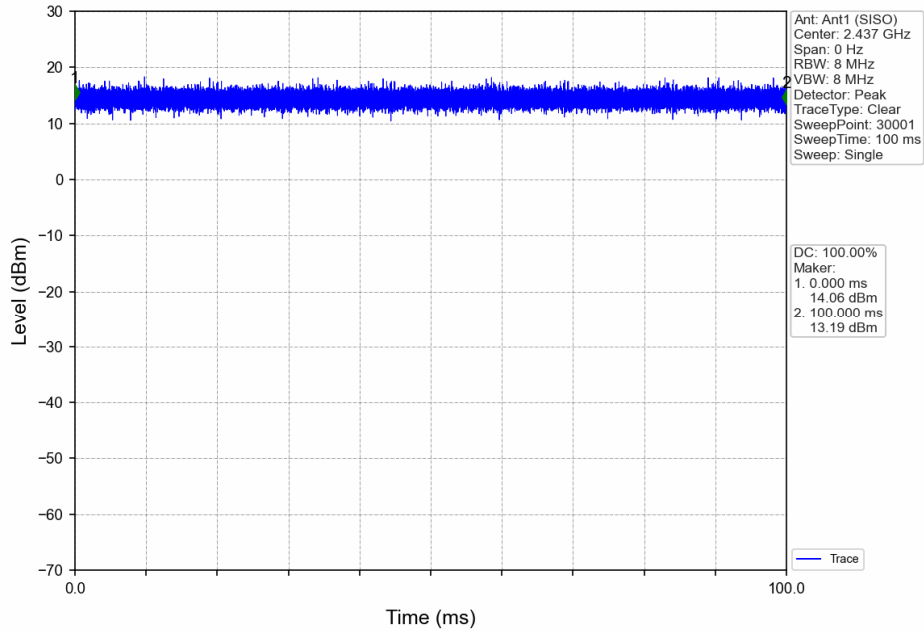
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



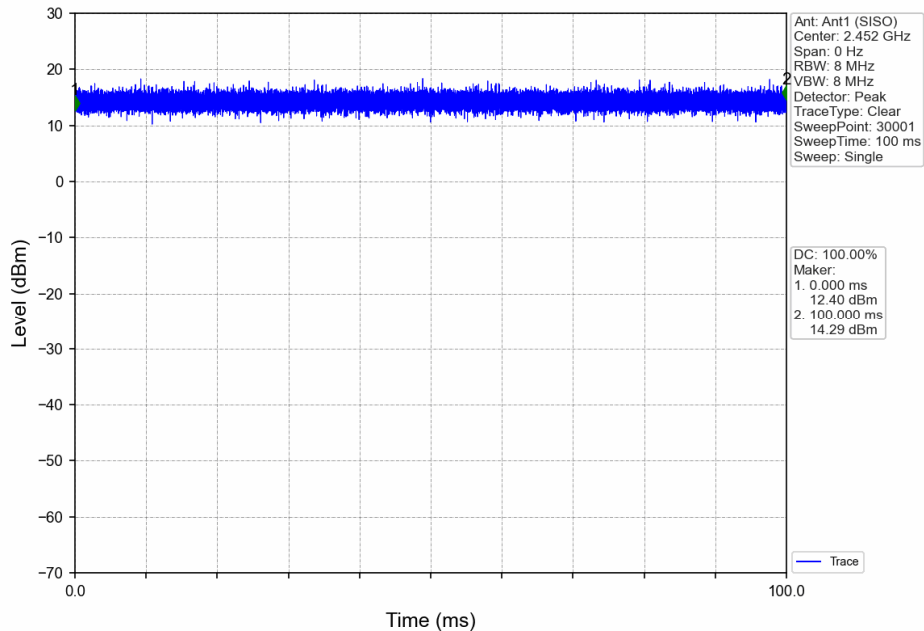
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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	13.234	Pass
		2437	1	13.198	Pass
		2462	1	13.174	Pass
802.11g	SISO	2412	1	16.721	Pass
		2437	1	16.725	Pass
		2462	1	16.721	Pass
802.11n (HT20)	SISO	2412	1	17.385	Pass
		2437	1	17.379	Pass
		2462	1	17.378	Pass
802.11n (HT40)	SISO	2422	1	34.718	Pass
		2437	1	34.677	Pass
		2452	1	34.699	Pass

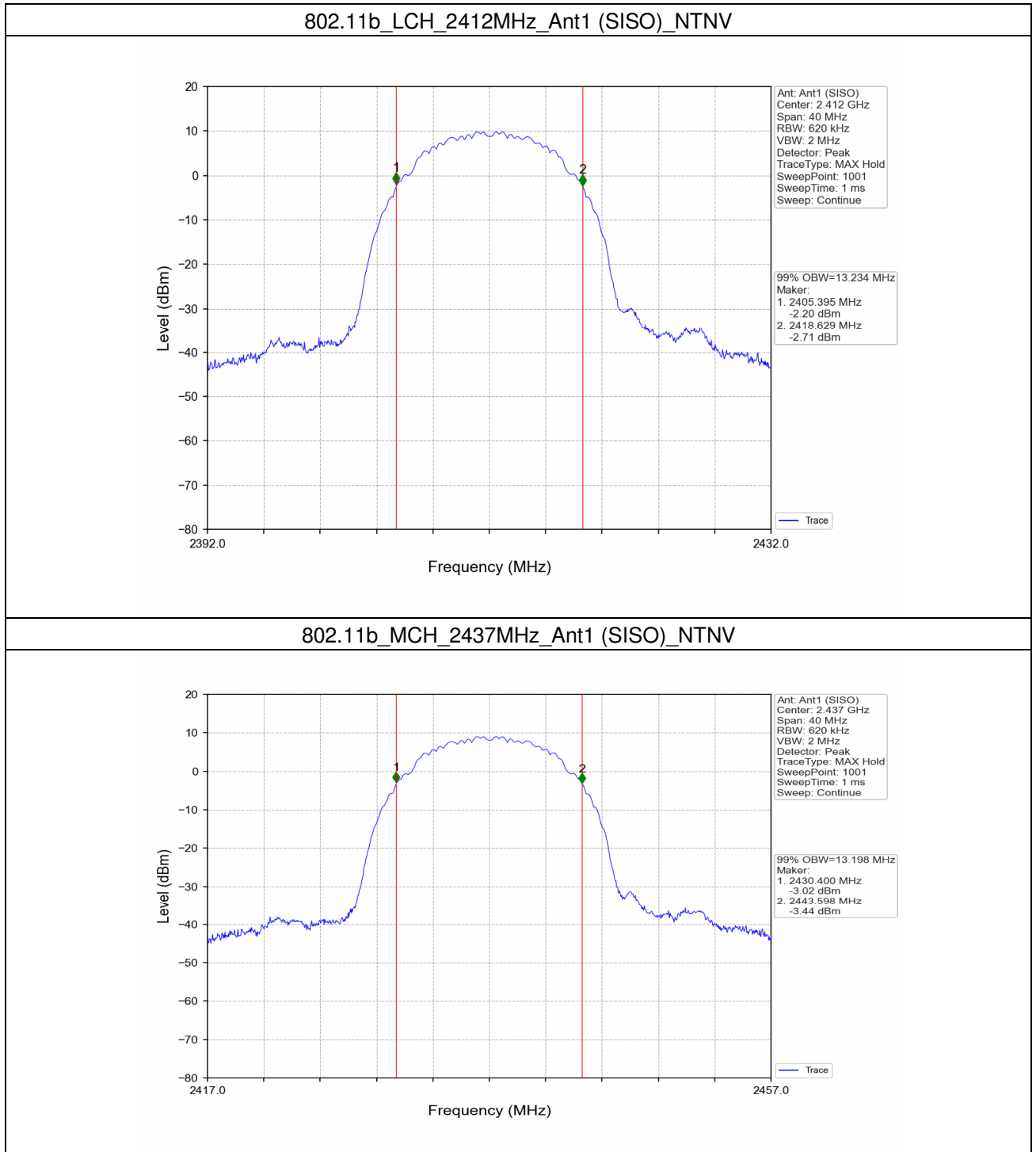


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Shenzhen Branch

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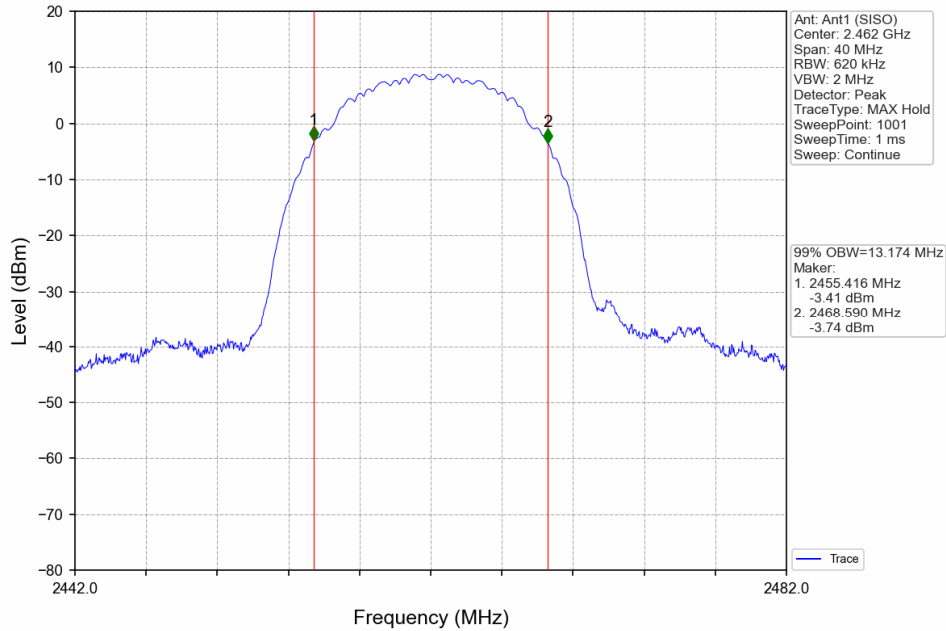
2.1.2 Test Graph



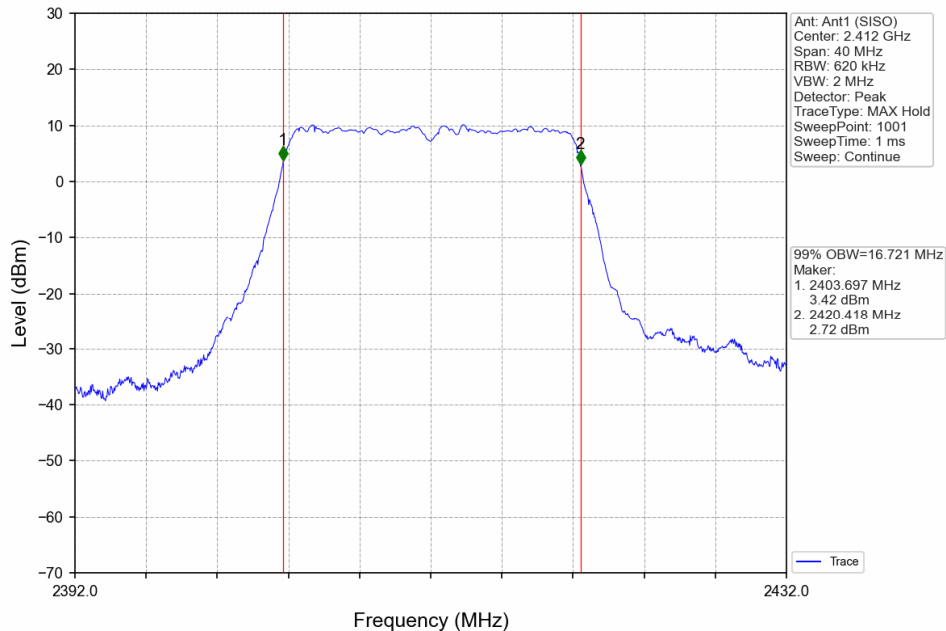
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



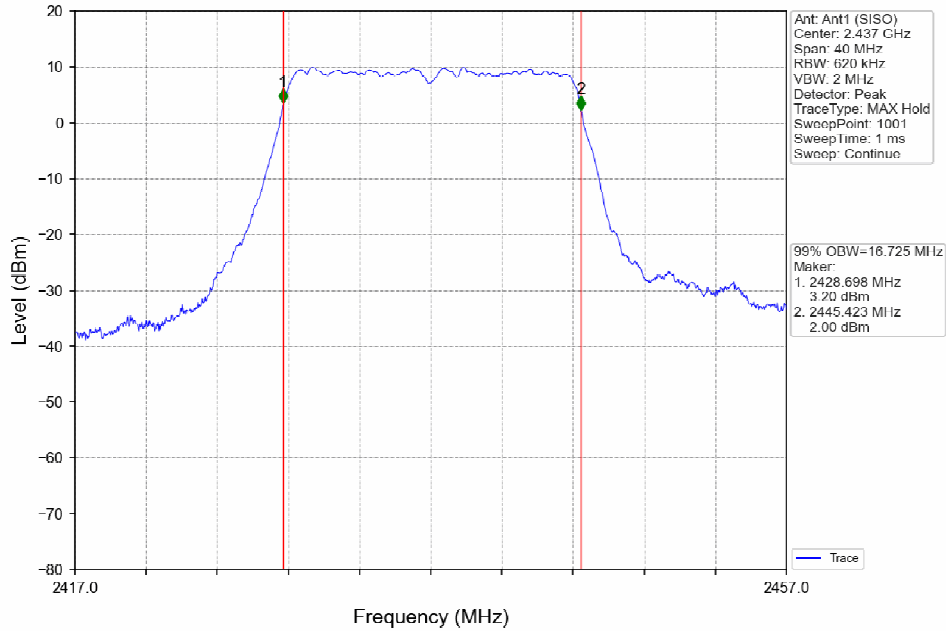
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



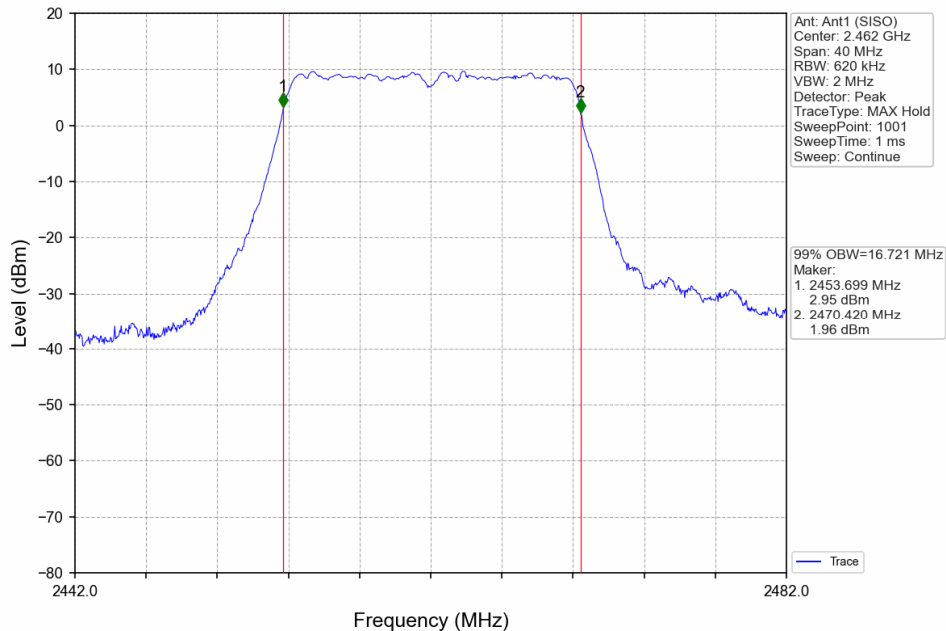
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

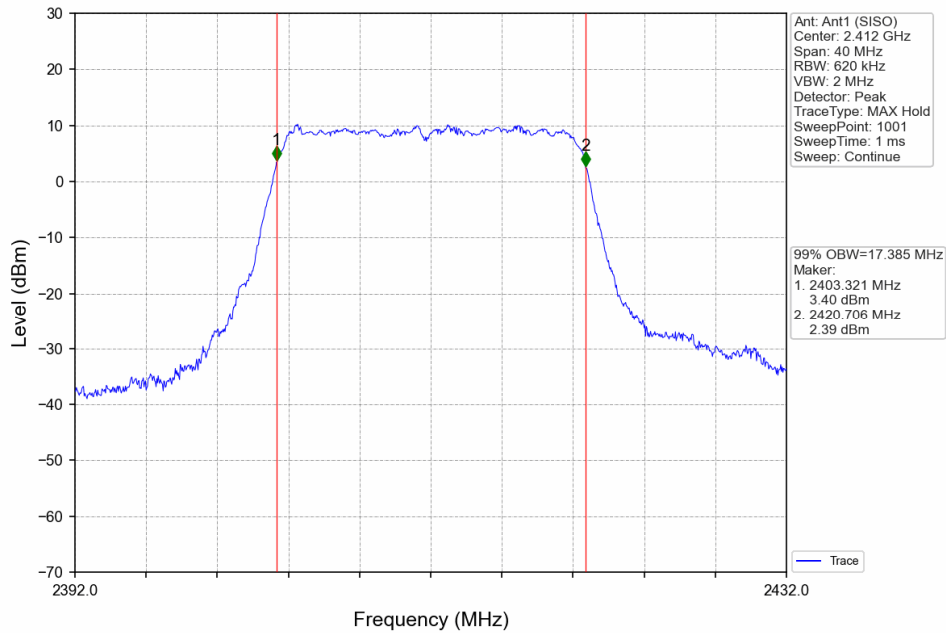


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

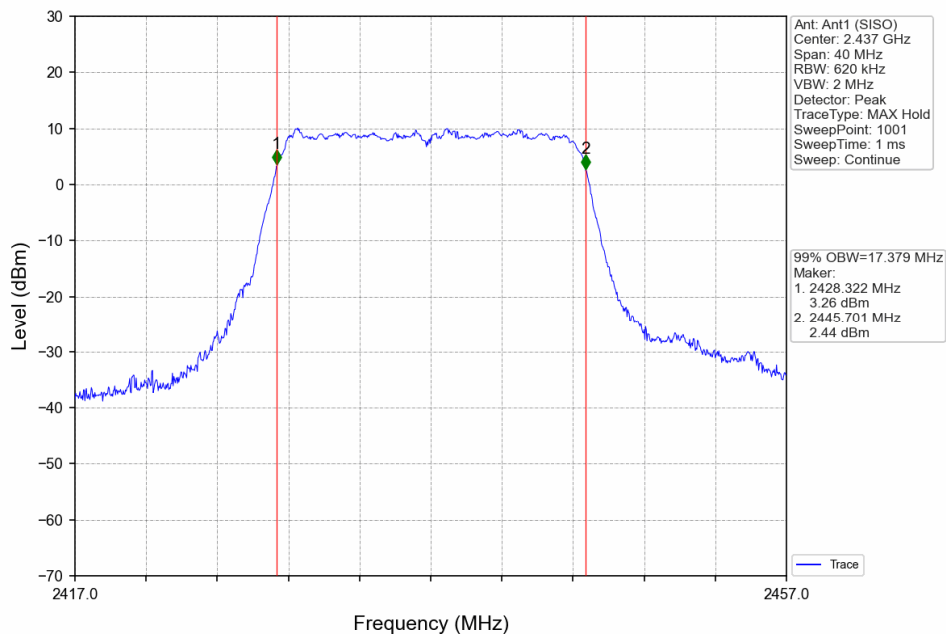


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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



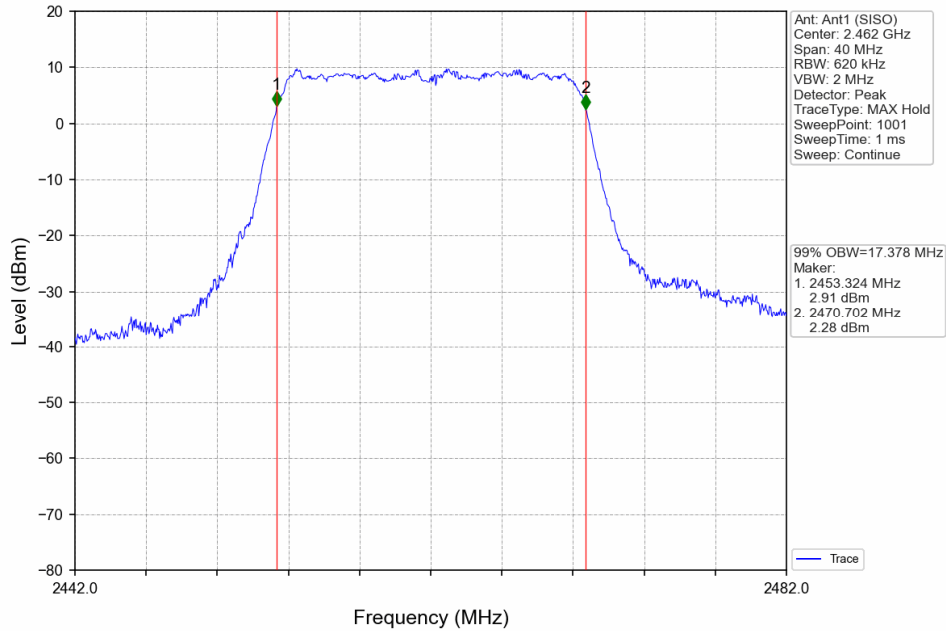
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



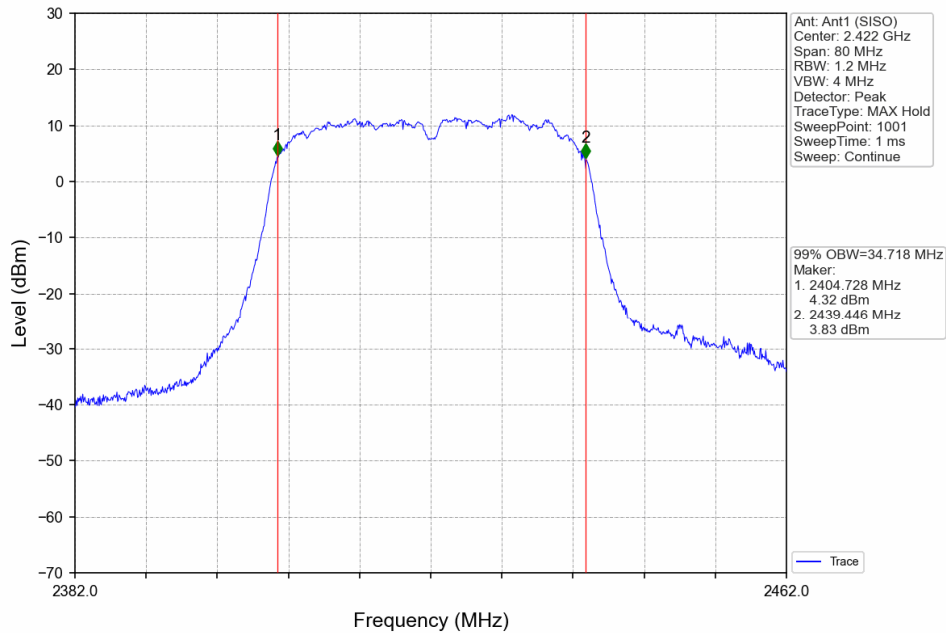
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



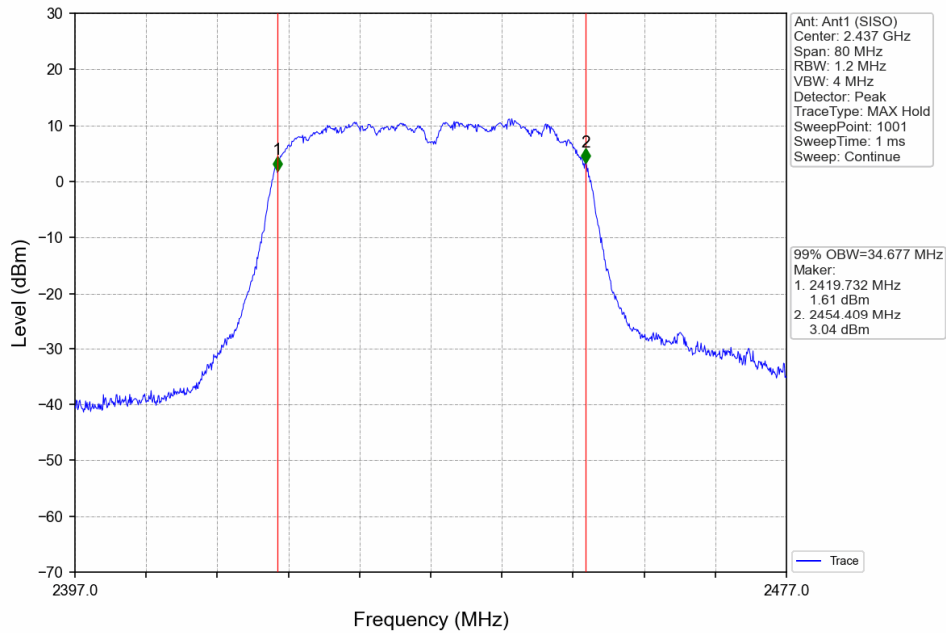
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



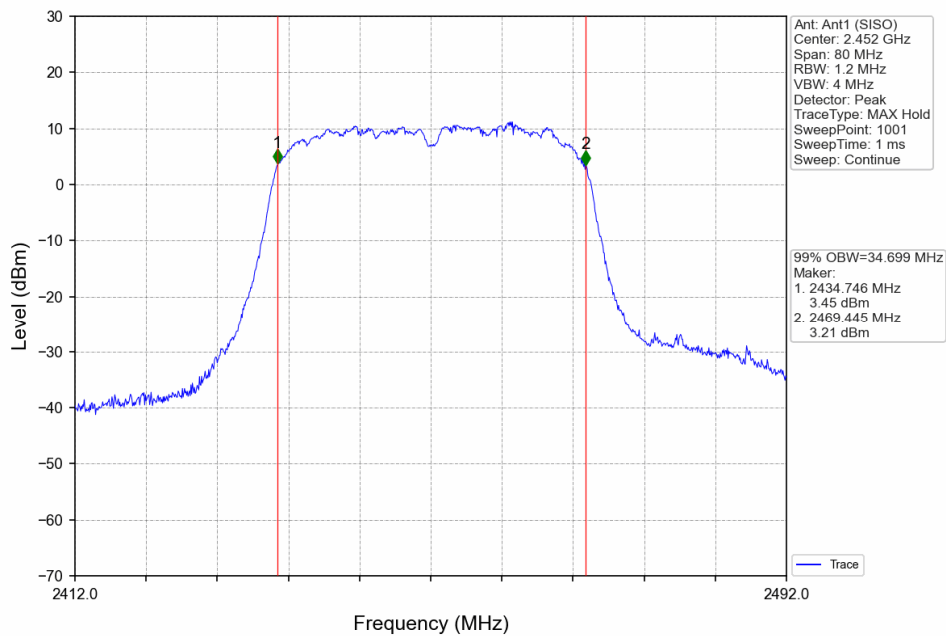
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2.2 6dB BW

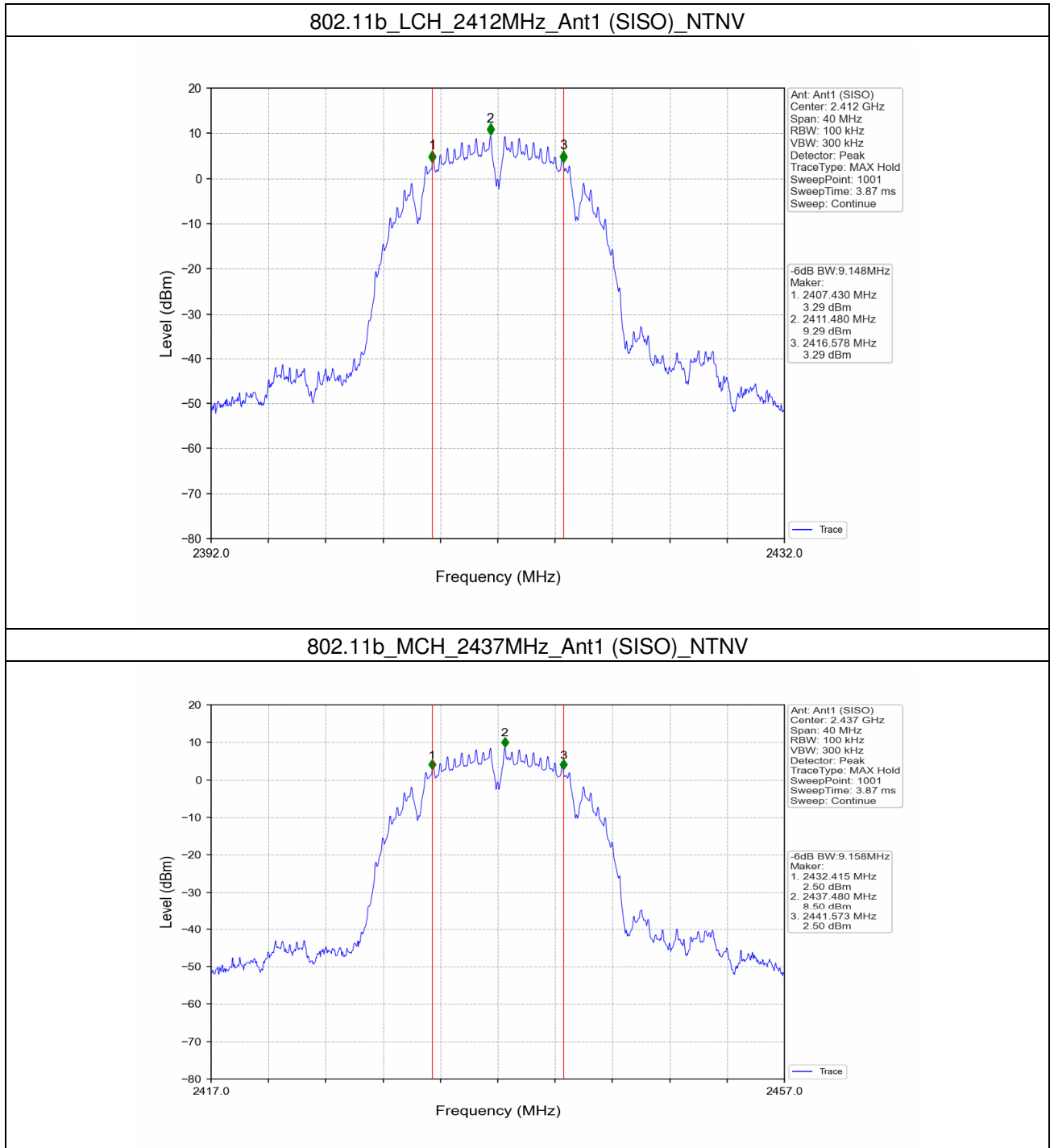
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.148	>=0.5	Pass
		2437	1	9.158	>=0.5	Pass
		2462	1	9.136	>=0.5	Pass
802.11g	SISO	2412	1	16.435	>=0.5	Pass
		2437	1	16.436	>=0.5	Pass
		2462	1	16.430	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.114	>=0.5	Pass
		2437	1	17.071	>=0.5	Pass
		2462	1	17.099	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	33.030	>=0.5	Pass
		2437	1	32.826	>=0.5	Pass
		2452	1	32.867	>=0.5	Pass



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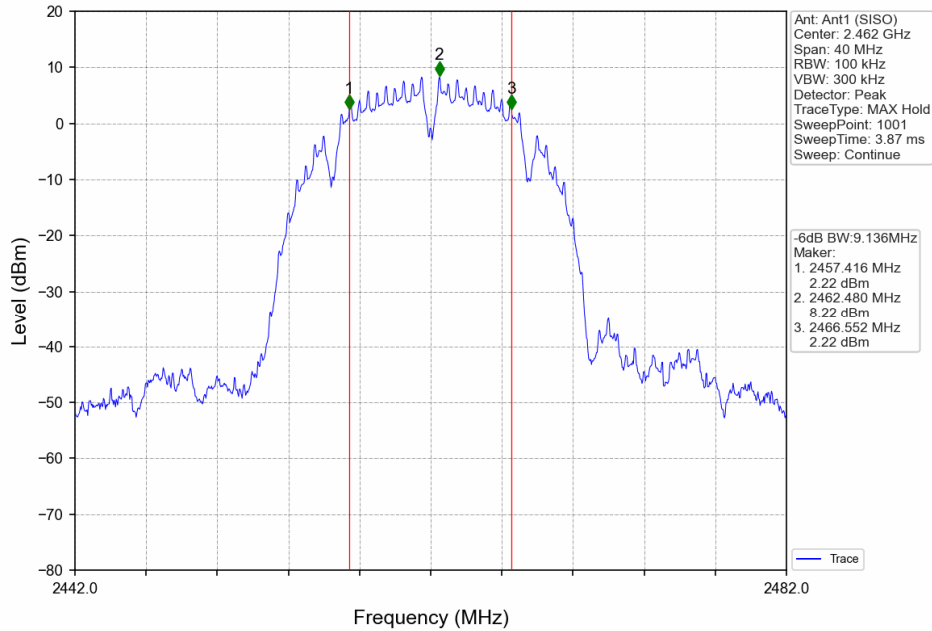
2.2.2 Test Graph



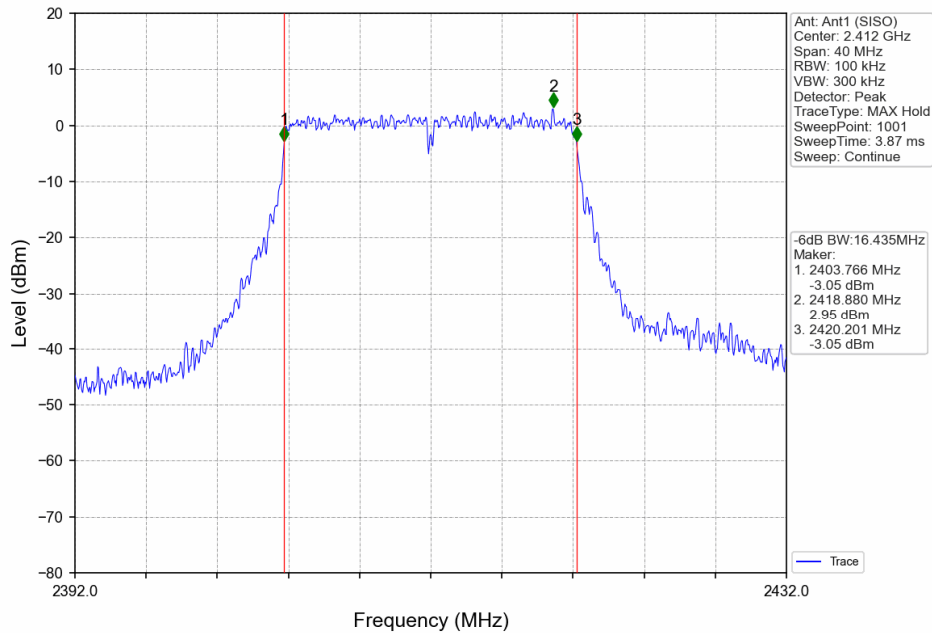
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

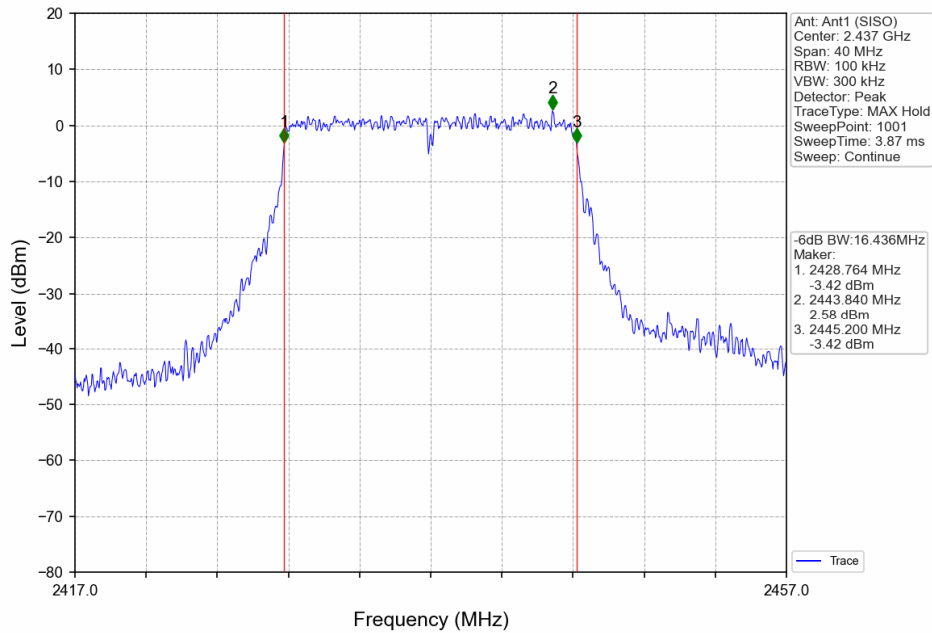


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

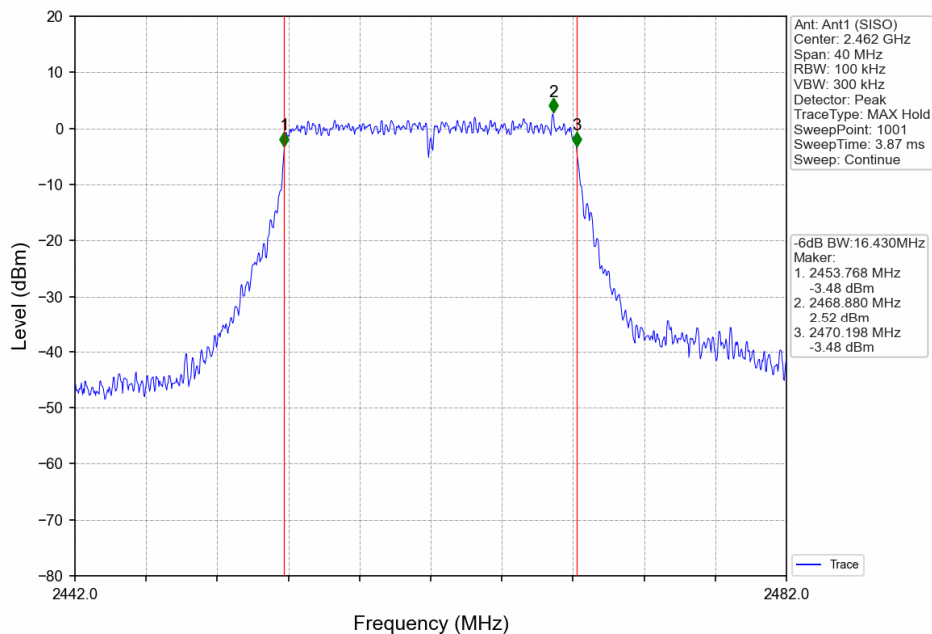


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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



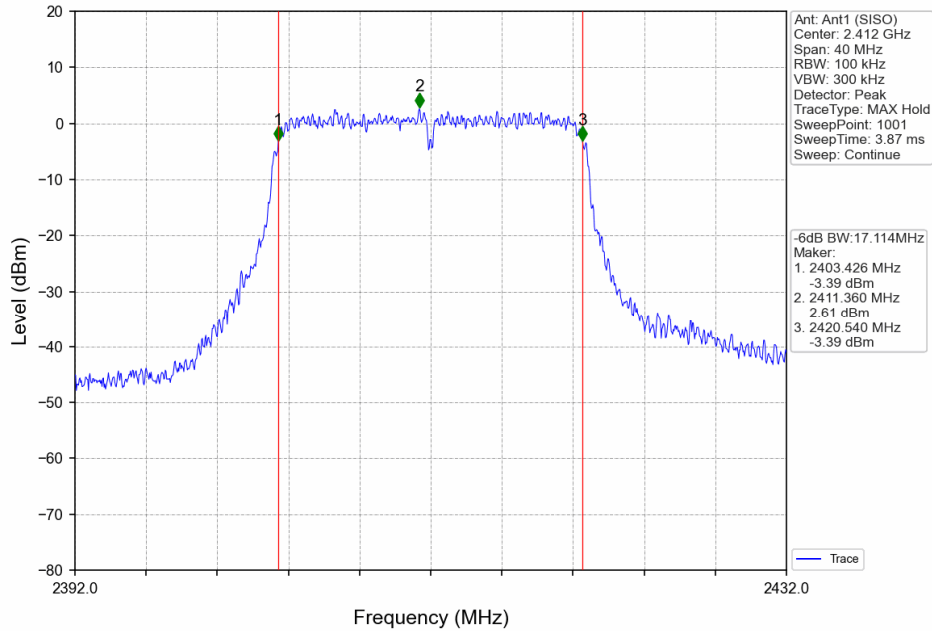
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



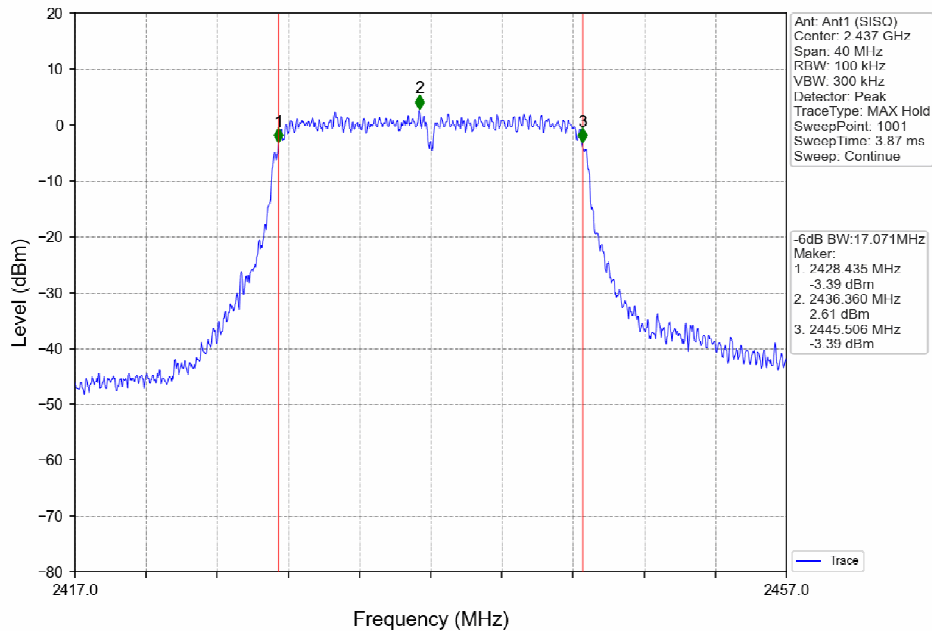
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



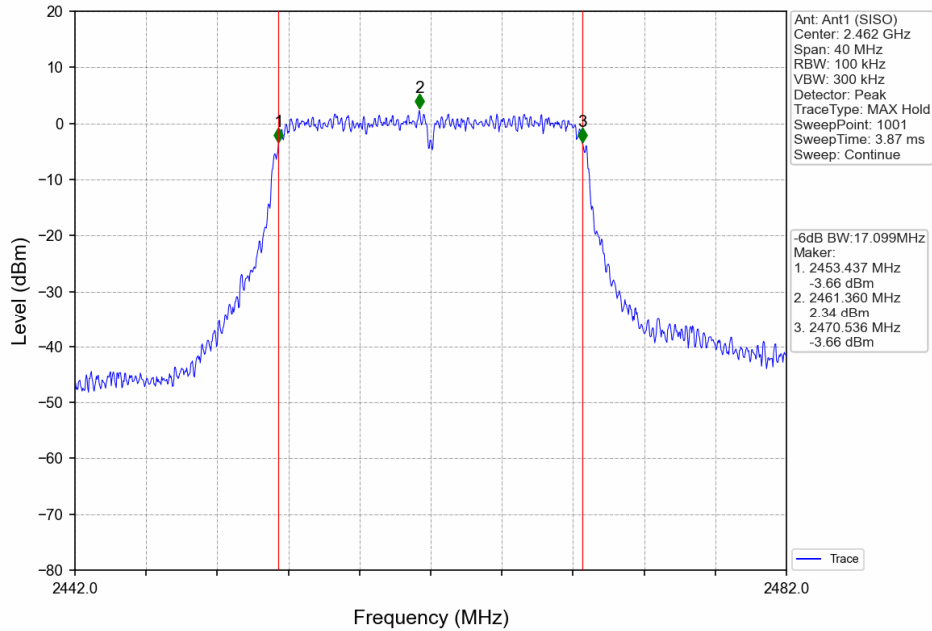
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



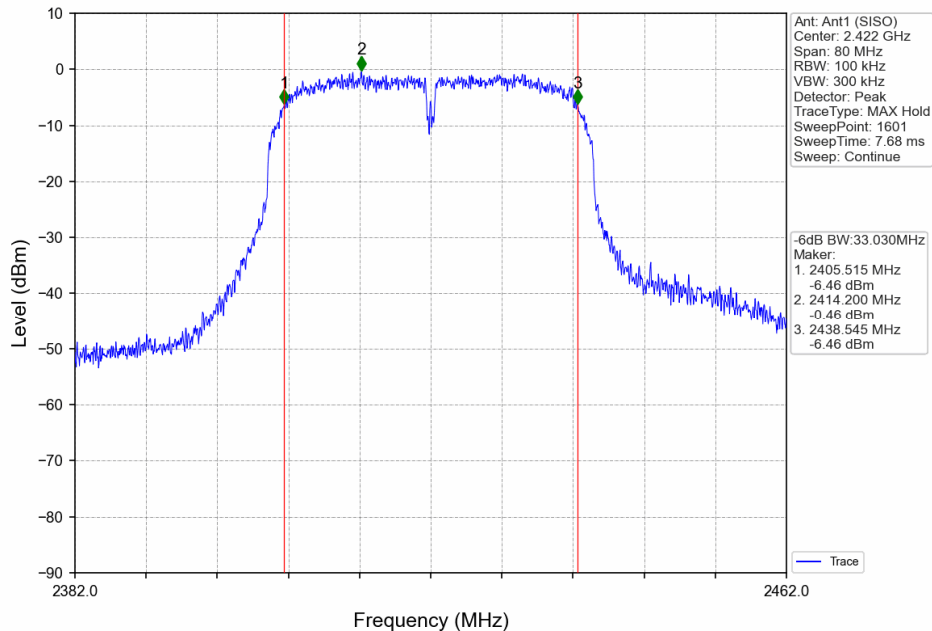
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

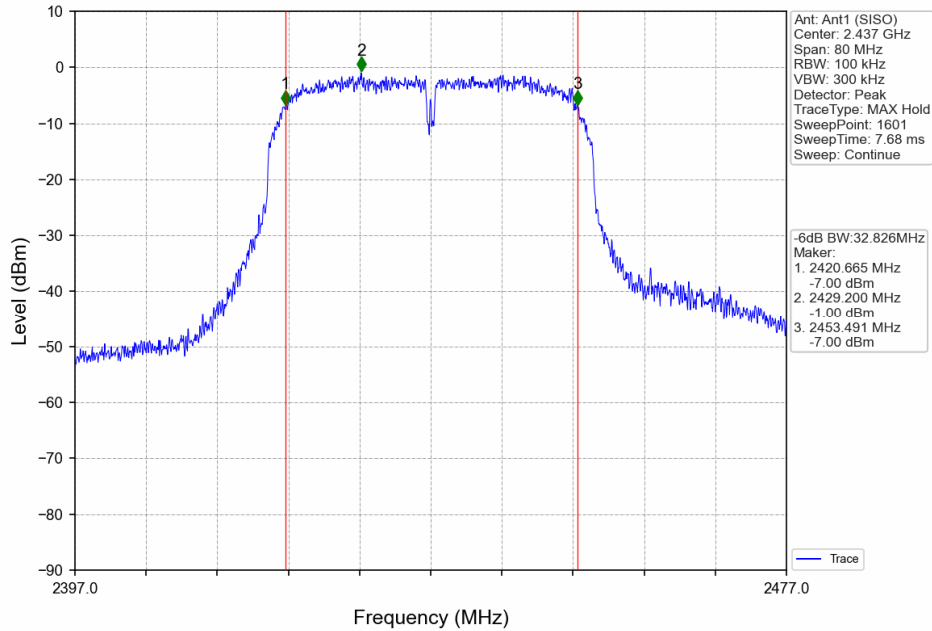


802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

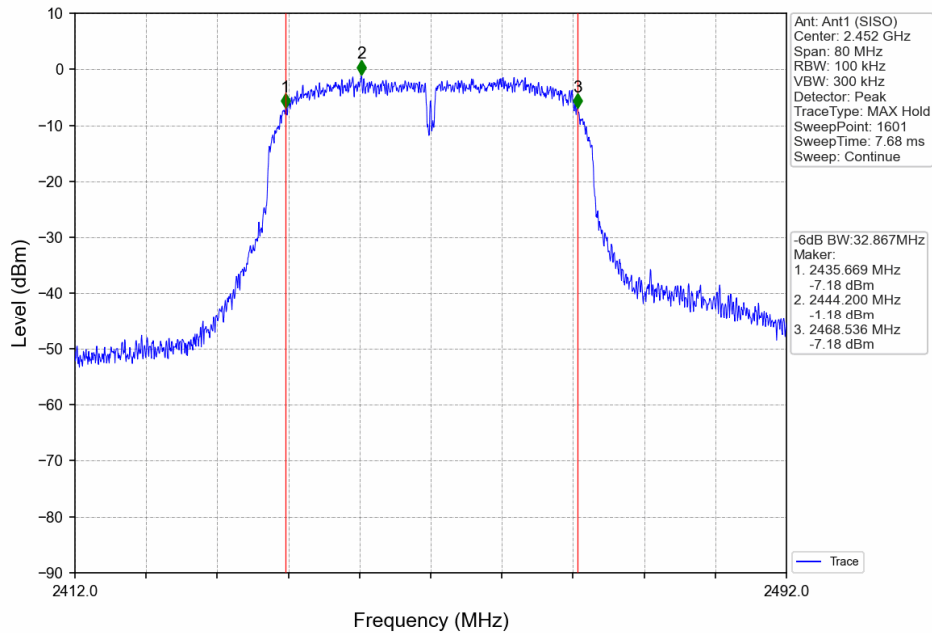


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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	14.36	<=30	Pass
		2437	14.00	<=30	Pass
		2462	12.51	<=30	Pass
802.11g	SISO	2412	15.66	<=30	Pass
		2437	15.50	<=30	Pass
		2462	15.24	<=30	Pass
802.11n (HT20)	SISO	2412	15.39	<=30	Pass
		2437	15.23	<=30	Pass
		2462	14.98	<=30	Pass
802.11n (HT40)	SISO	2422	15.33	<=30	Pass
		2437	14.74	<=30	Pass
		2452	14.63	<=30	Pass

Note1: Antenna Gain: Ant1: 2.00dBi;



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

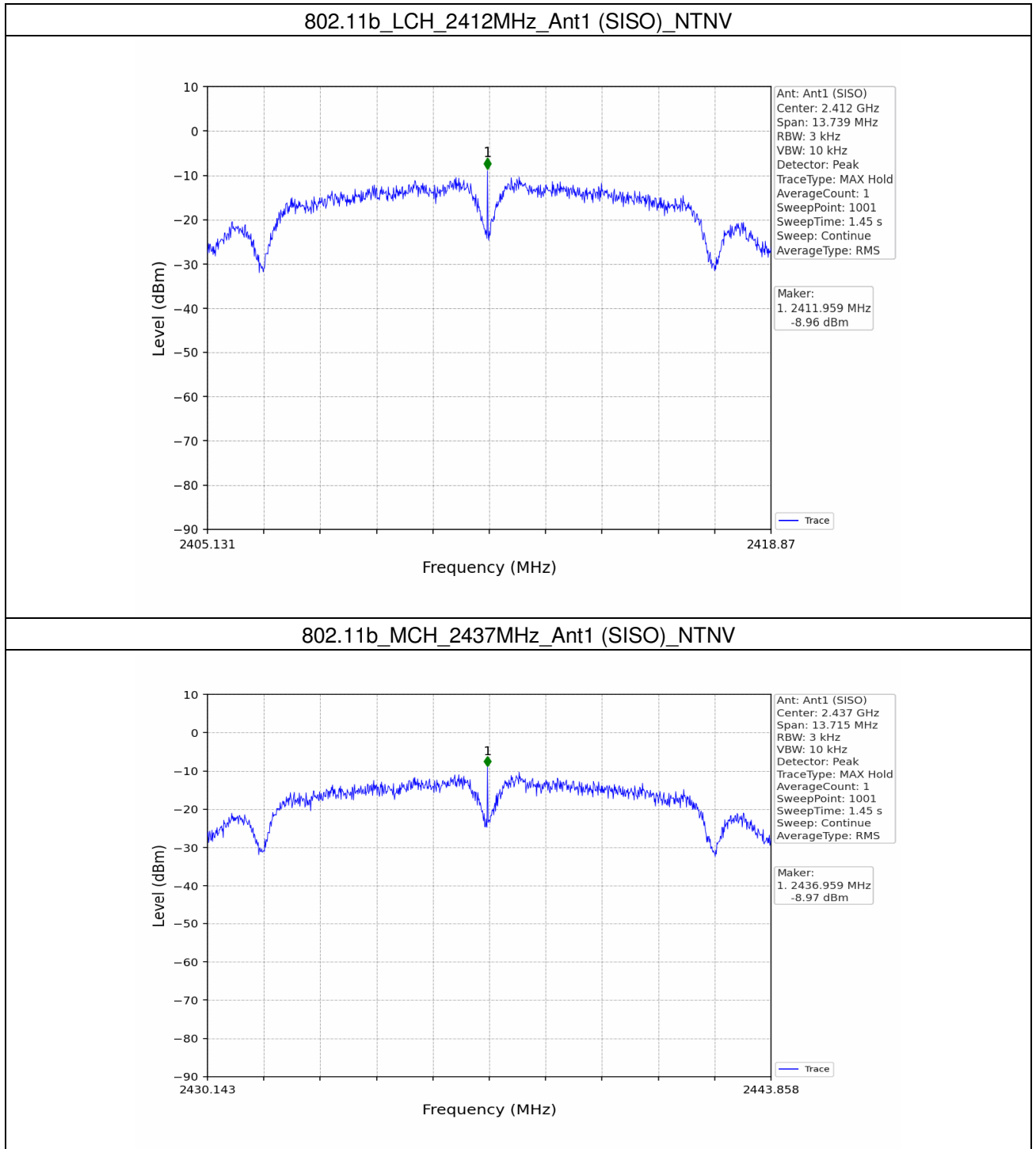
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-8.96	<=8	Pass
		2437	-8.97	<=8	Pass
		2462	-8.69	<=8	Pass
802.11g	SISO	2412	-10.70	<=8	Pass
		2437	-10.77	<=8	Pass
		2462	-9.89	<=8	Pass
802.11n (HT20)	SISO	2412	-10.20	<=8	Pass
		2437	-10.31	<=8	Pass
		2462	-9.95	<=8	Pass
802.11n (HT40)	SISO	2422	-11.49	<=8	Pass
		2437	-10.44	<=8	Pass
		2452	-11.23	<=8	Pass

Note1: Antenna Gain: Ant1: 2.00dBi;



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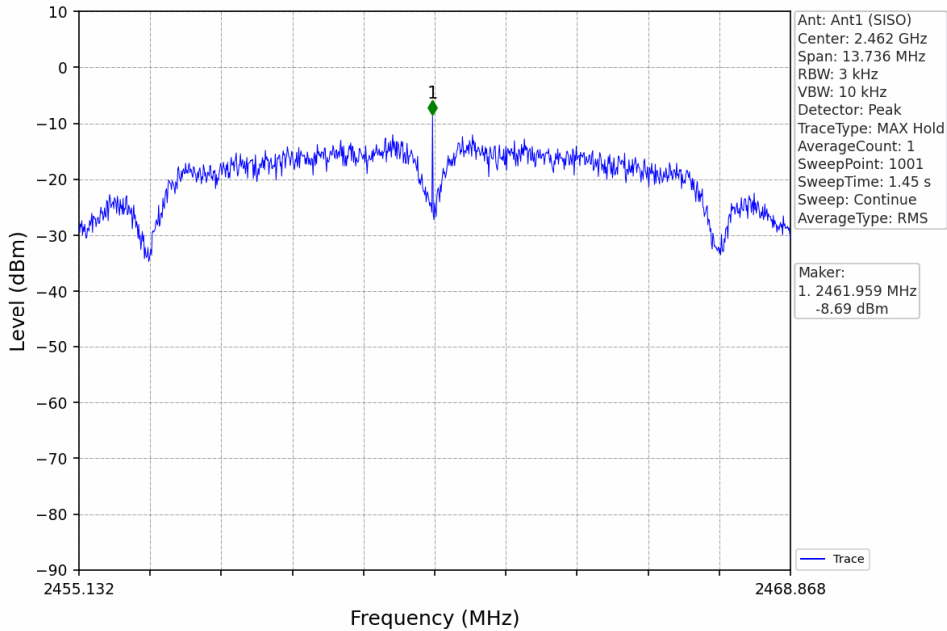
4.1.2 Test Graph



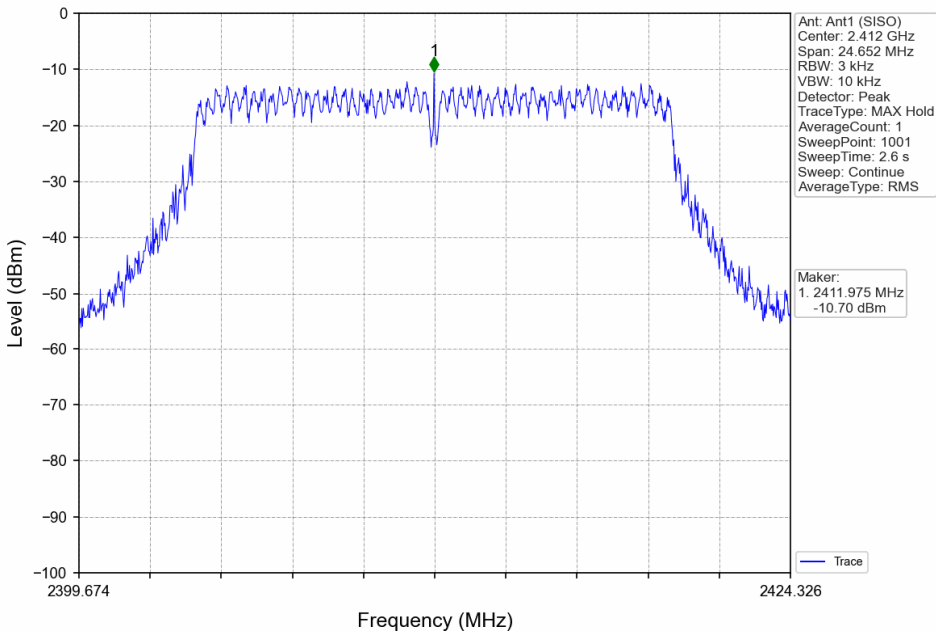
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



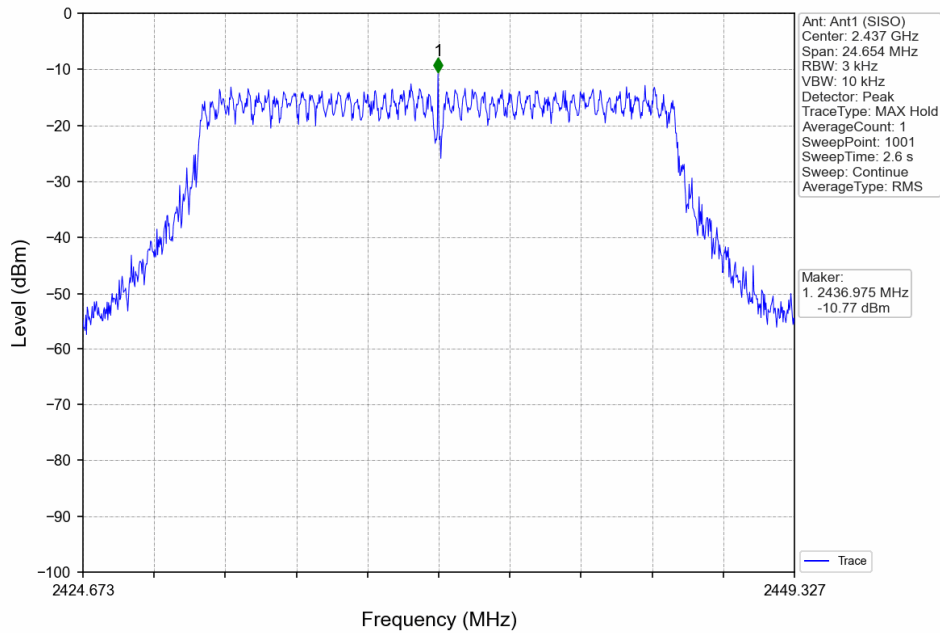
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



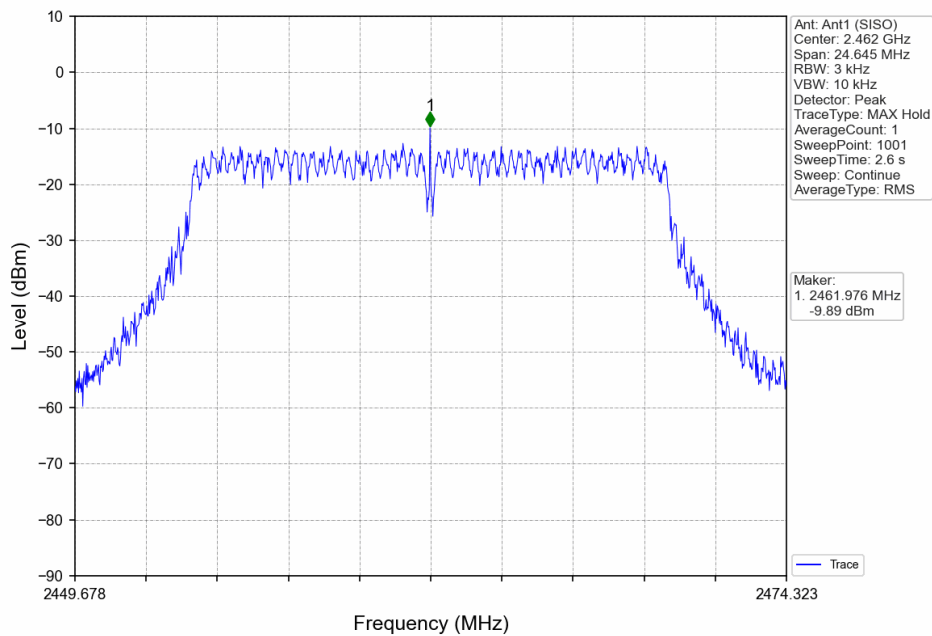
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

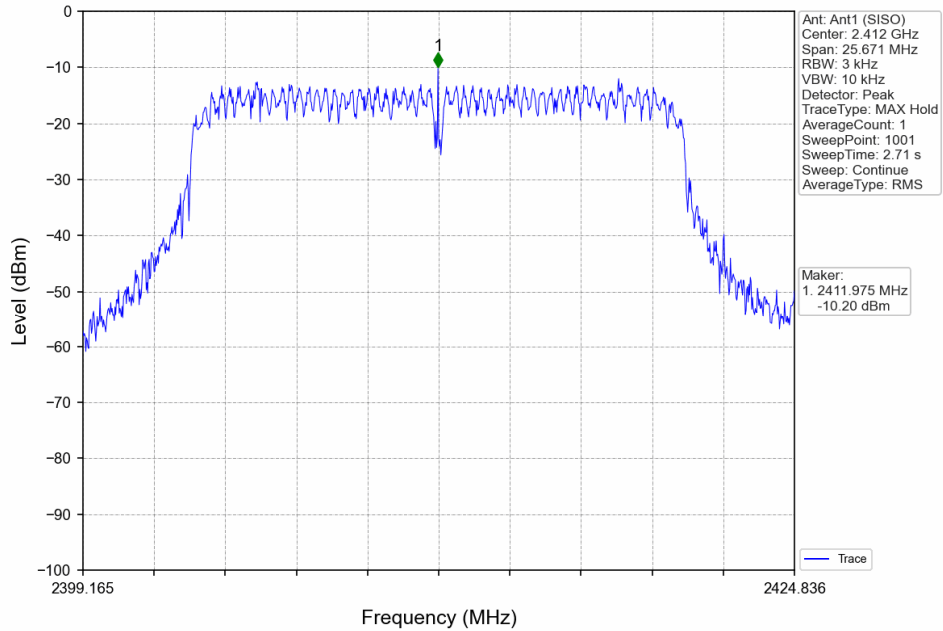


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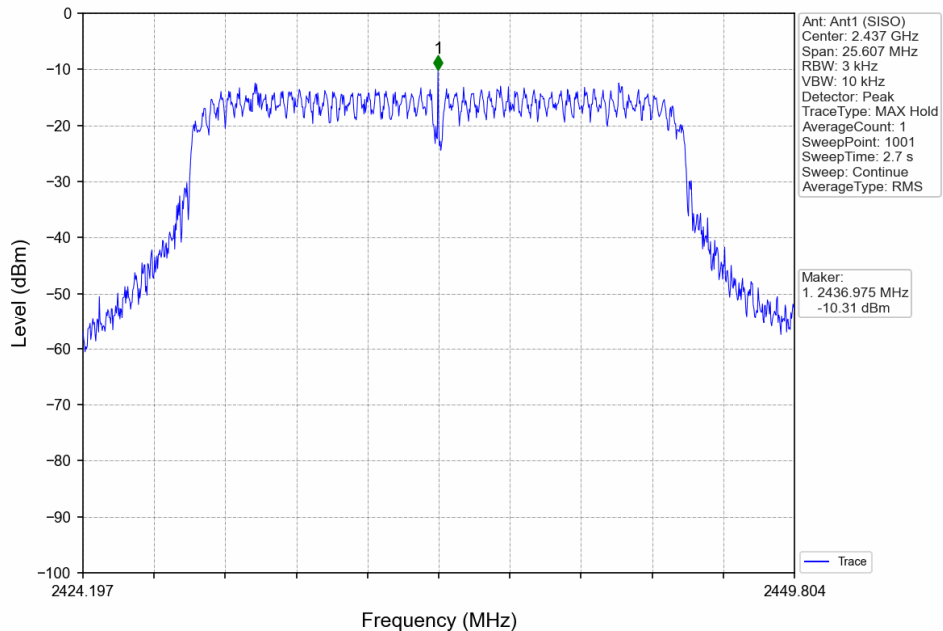


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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

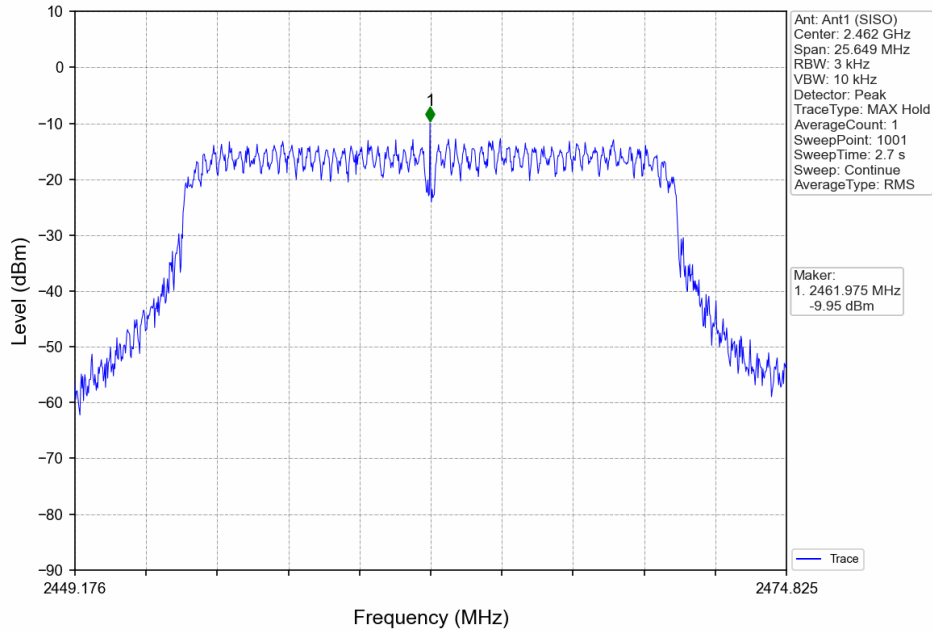


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

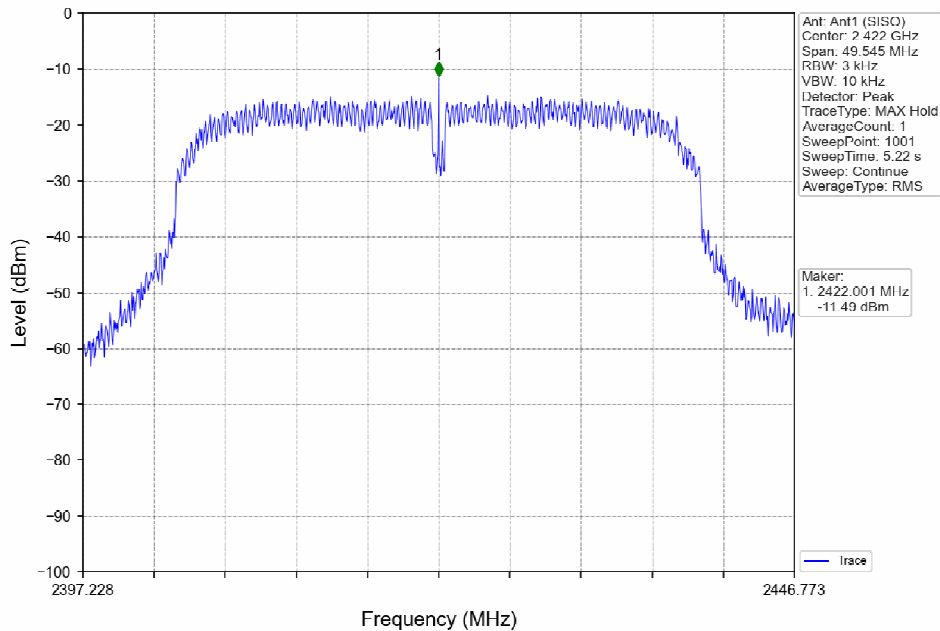


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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



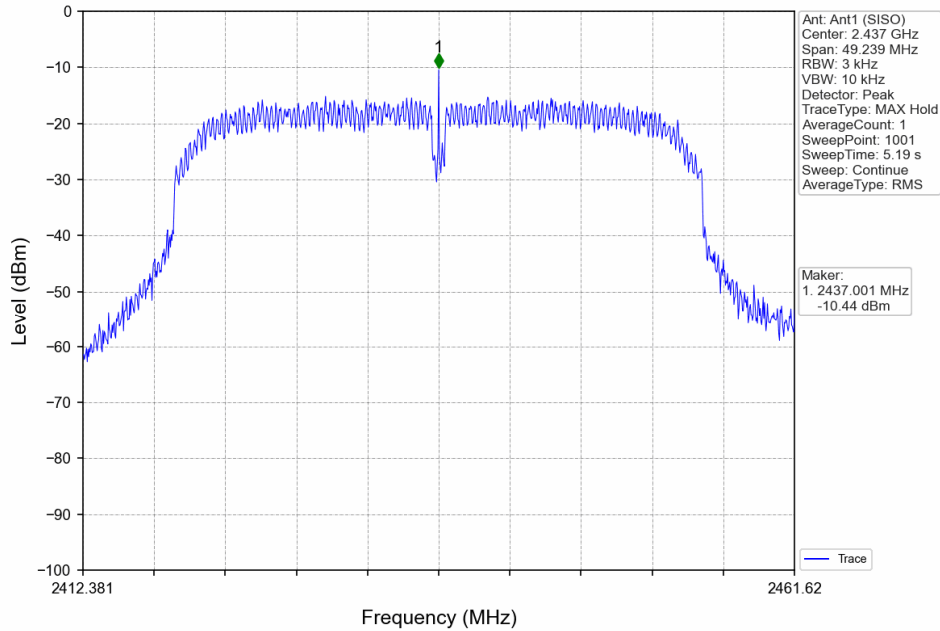
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



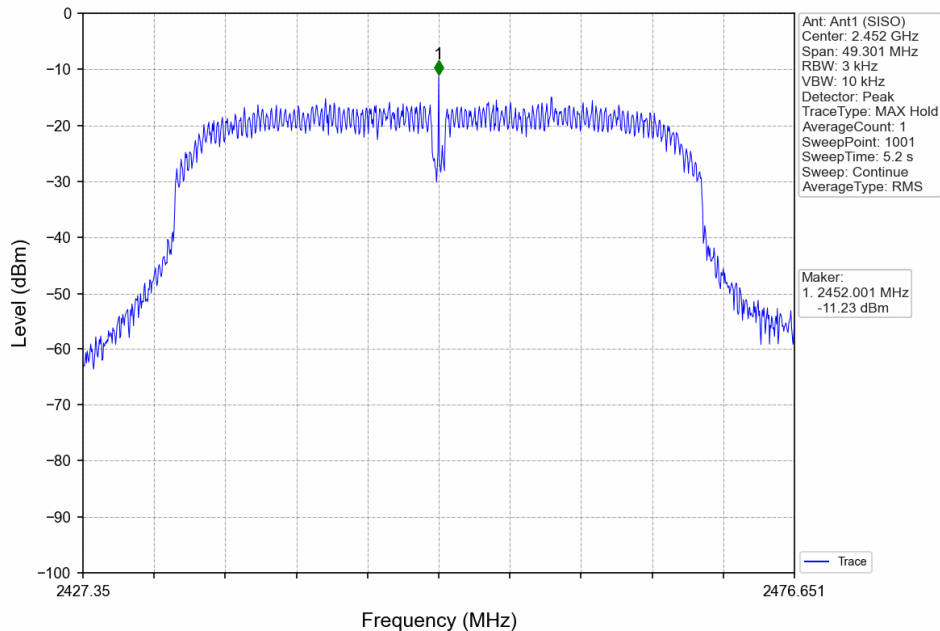
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	5.89
		2437	1	5.53
		2462	1	4.09
802.11g	SISO	2412	1	2.87
		2437	1	2.64
		2462	1	2.42
802.11n (HT20)	SISO	2412	1	2.60
		2437	1	2.58
		2462	1	1.96
802.11n (HT40)	SISO	2422	1	-0.82
		2437	1	-1.40
		2452	1	-1.50

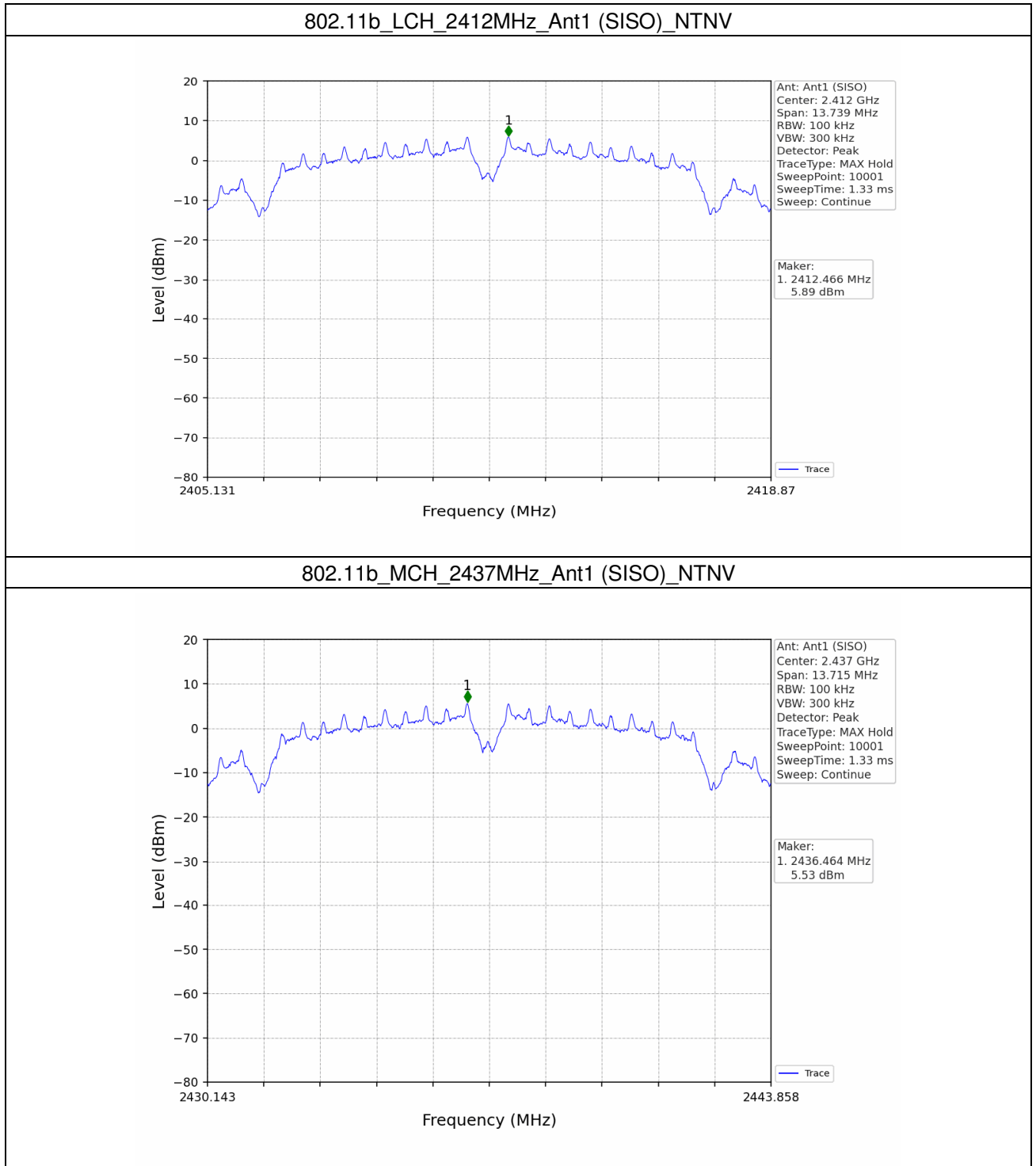
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



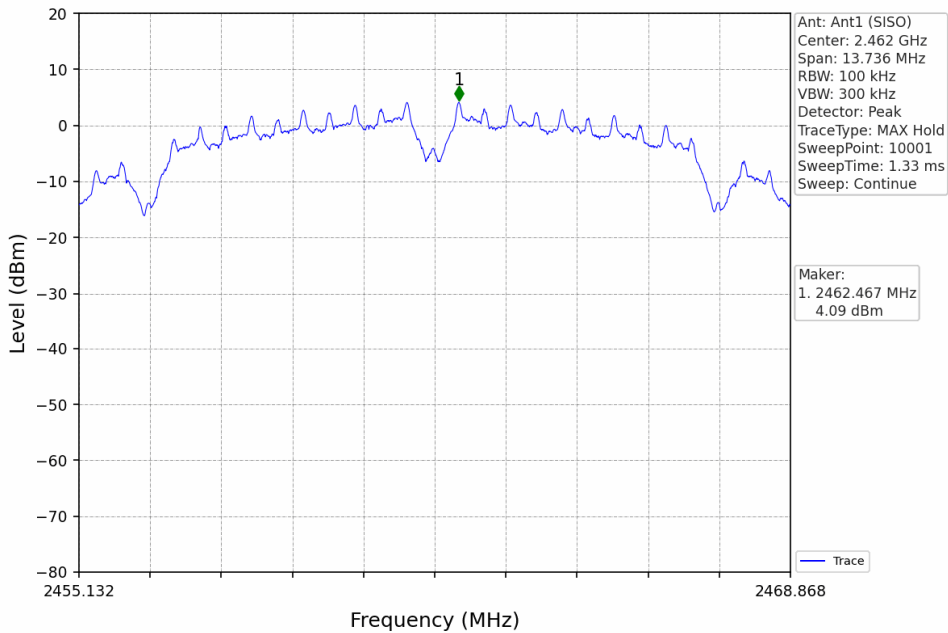
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5.1.2 Test Graph

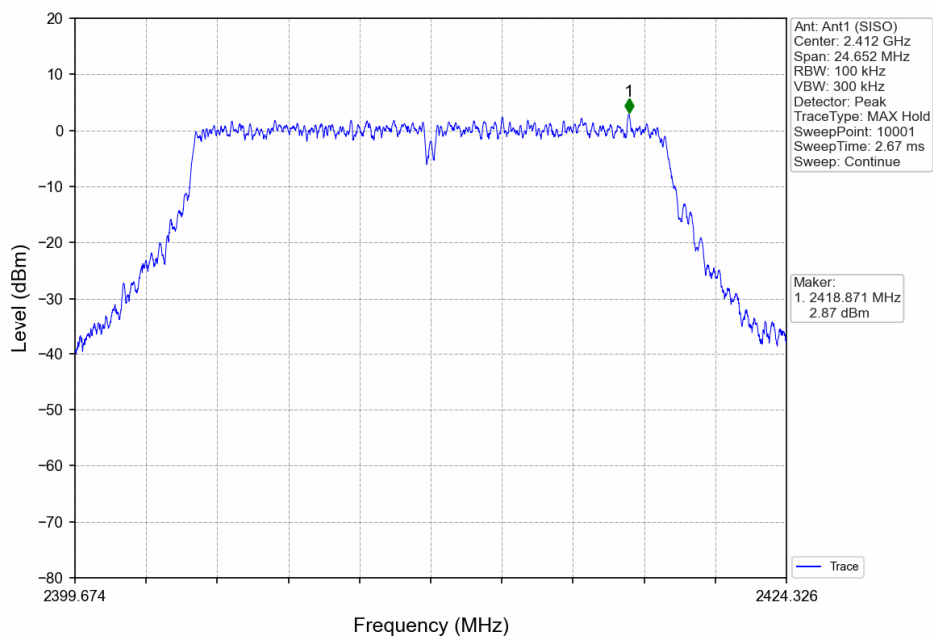


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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



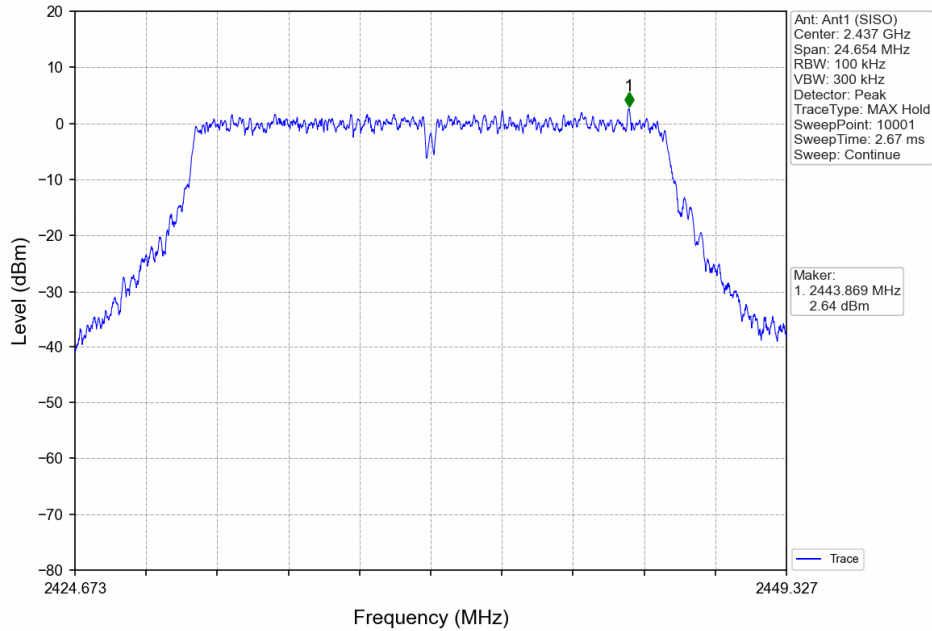
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



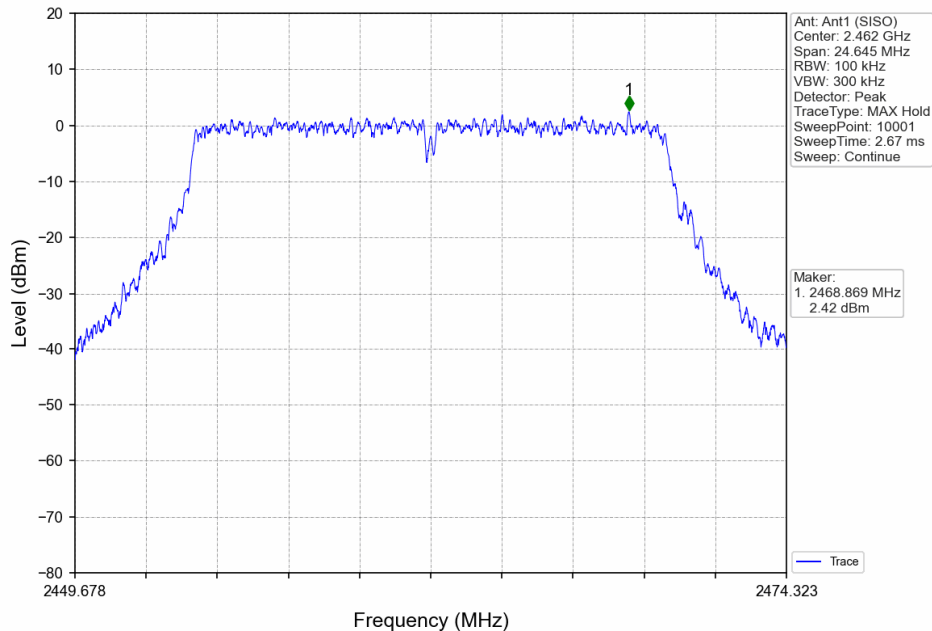
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



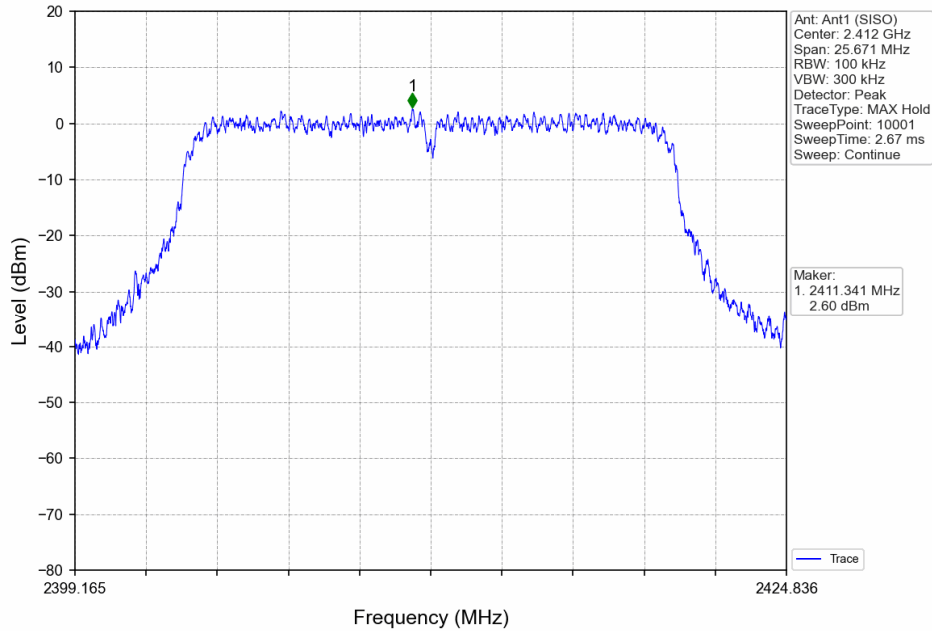
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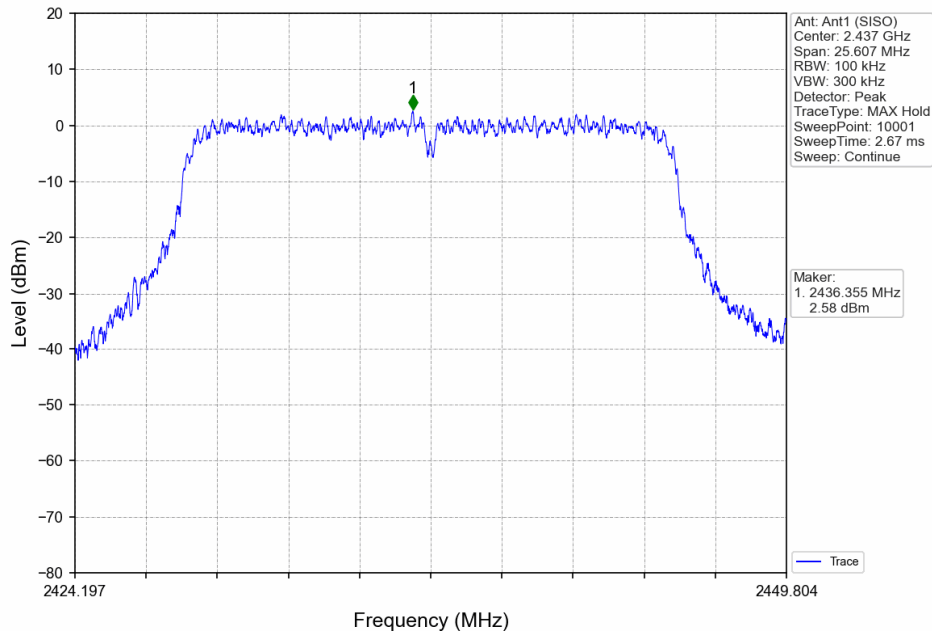
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



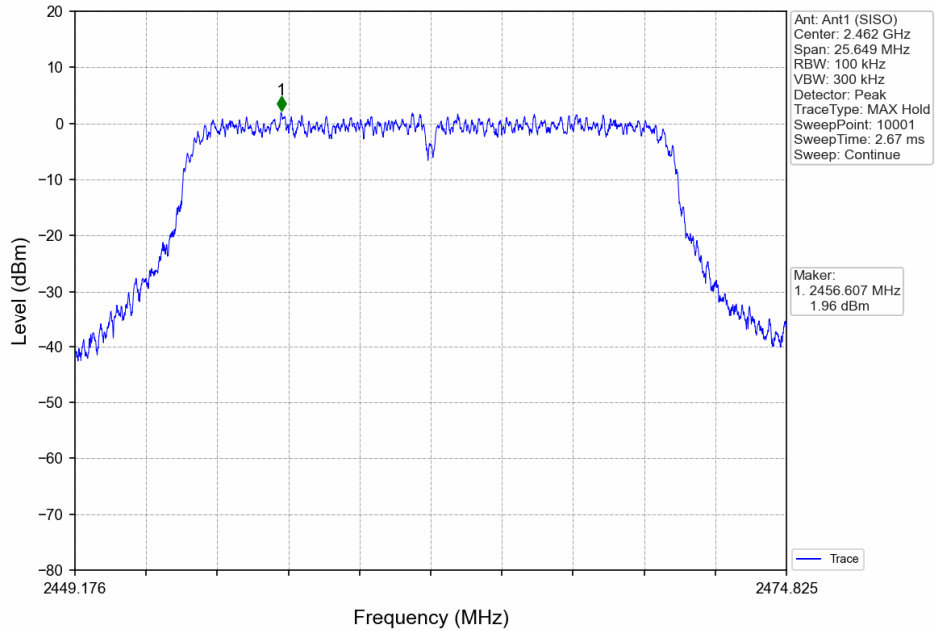
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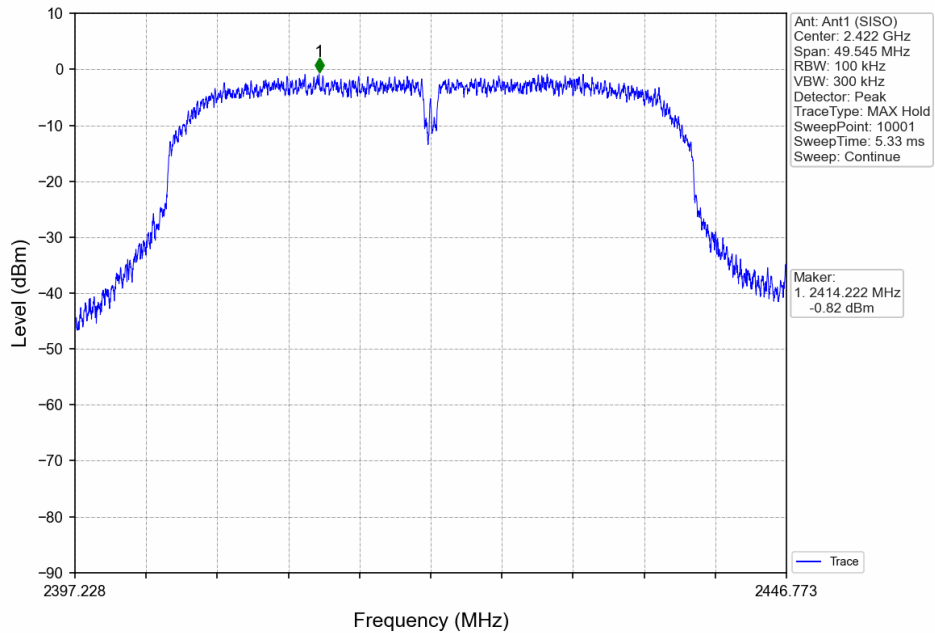
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



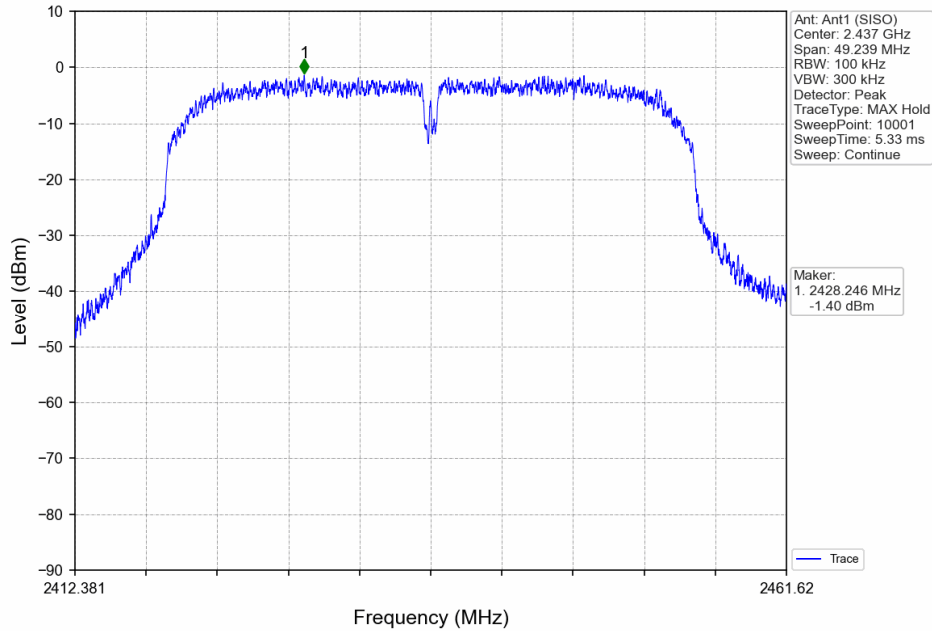
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



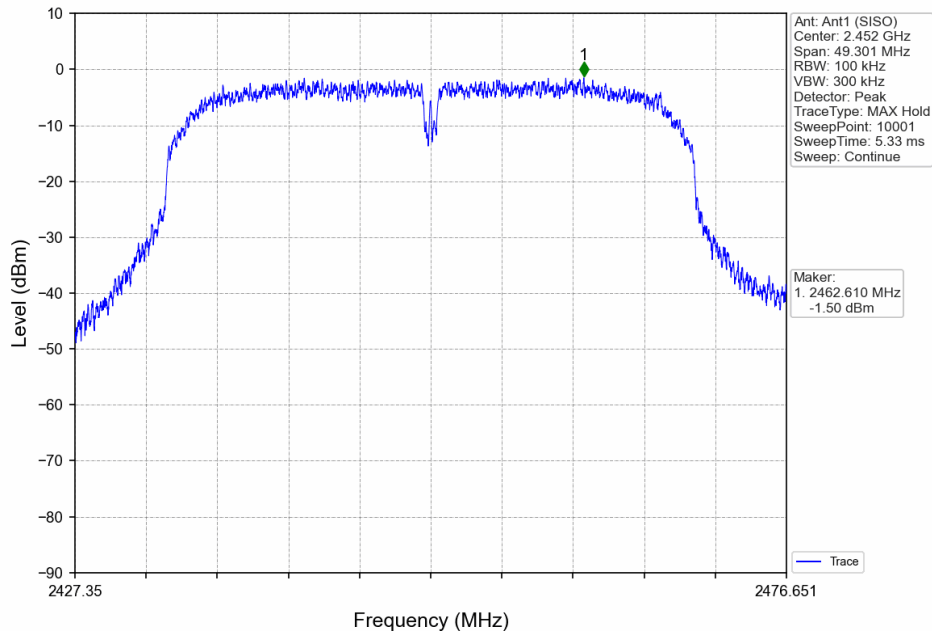
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.89	-24.11	Pass
		2437	1	5.89	-24.11	Pass
		2462	1	5.89	-24.11	Pass
802.11g	SISO	2412	1	2.87	-27.13	Pass
		2437	1	2.87	-27.13	Pass
		2462	1	2.87	-27.13	Pass
802.11n (HT20)	SISO	2412	1	2.60	-27.40	Pass
		2437	1	2.60	-27.40	Pass
		2462	1	2.60	-27.40	Pass
802.11n (HT40)	SISO	2422	1	-0.82	-30.82	Pass
		2437	1	-0.82	-30.82	Pass
		2452	1	-0.82	-30.82	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

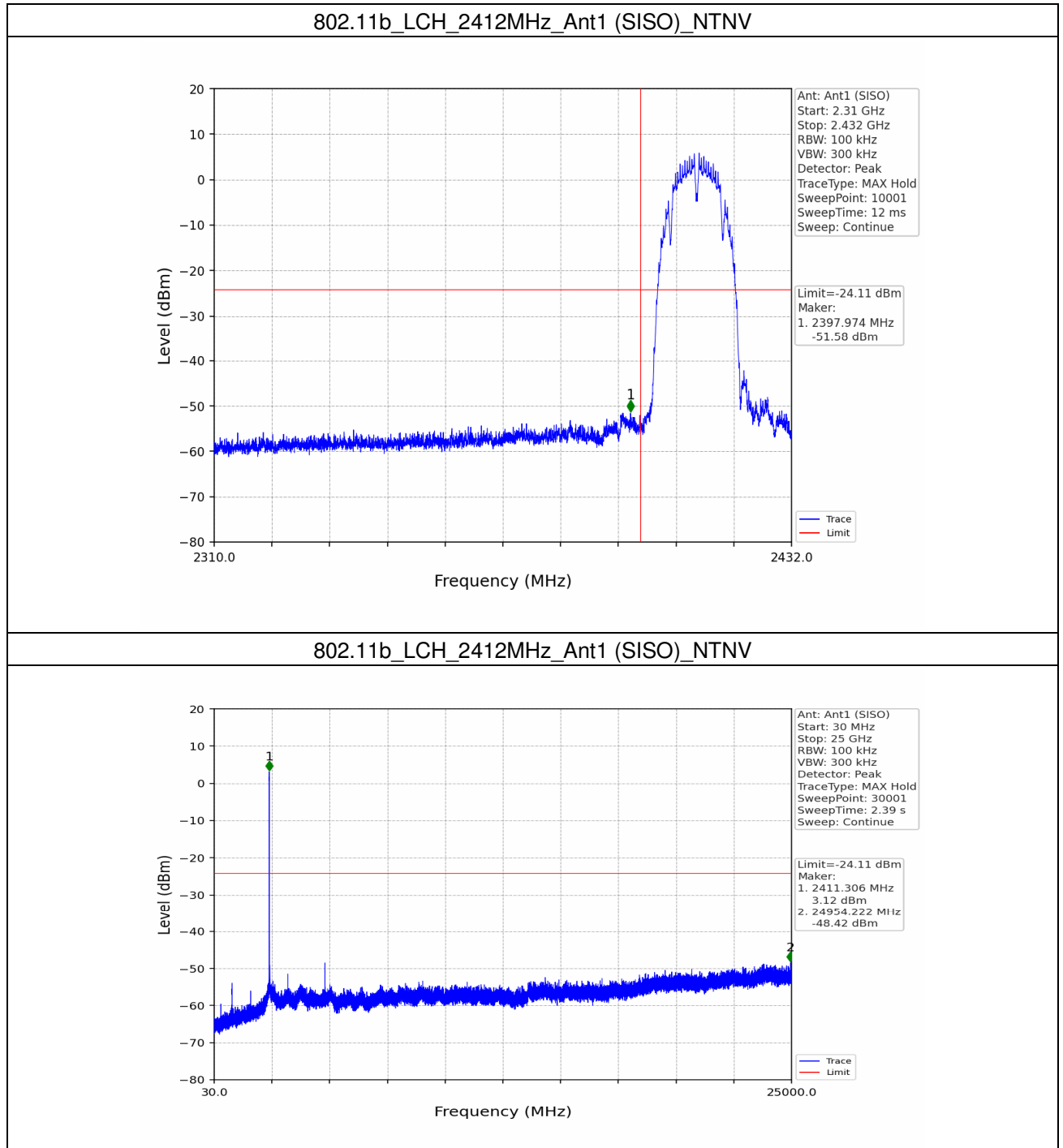


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Shenzhen Branch

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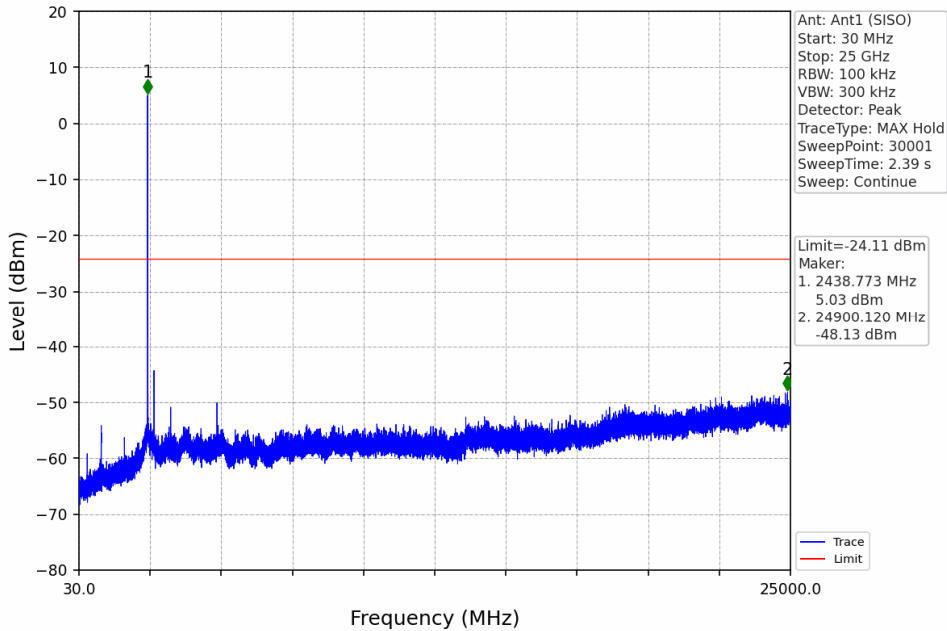
5.2.2 Test Graph



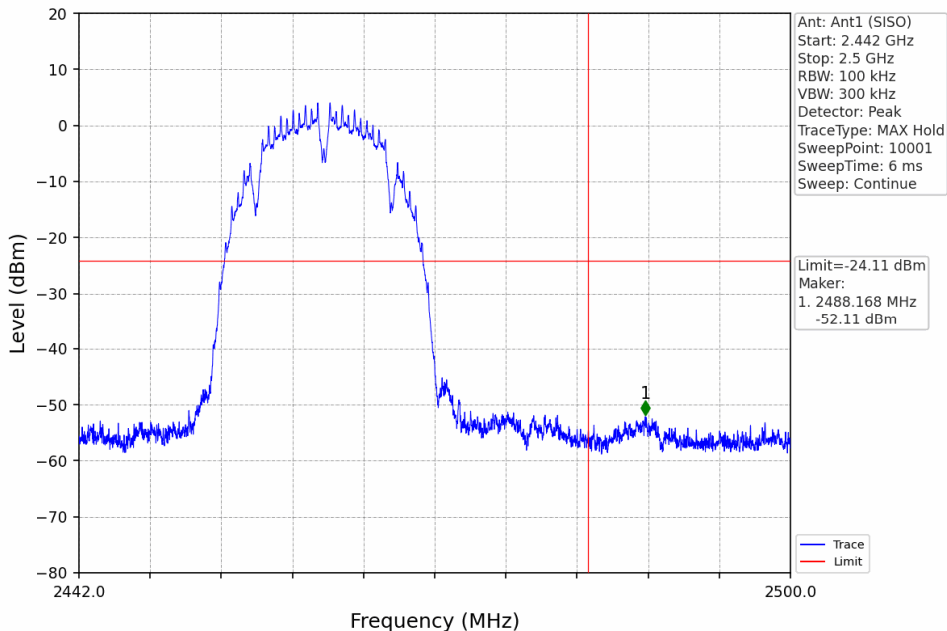
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

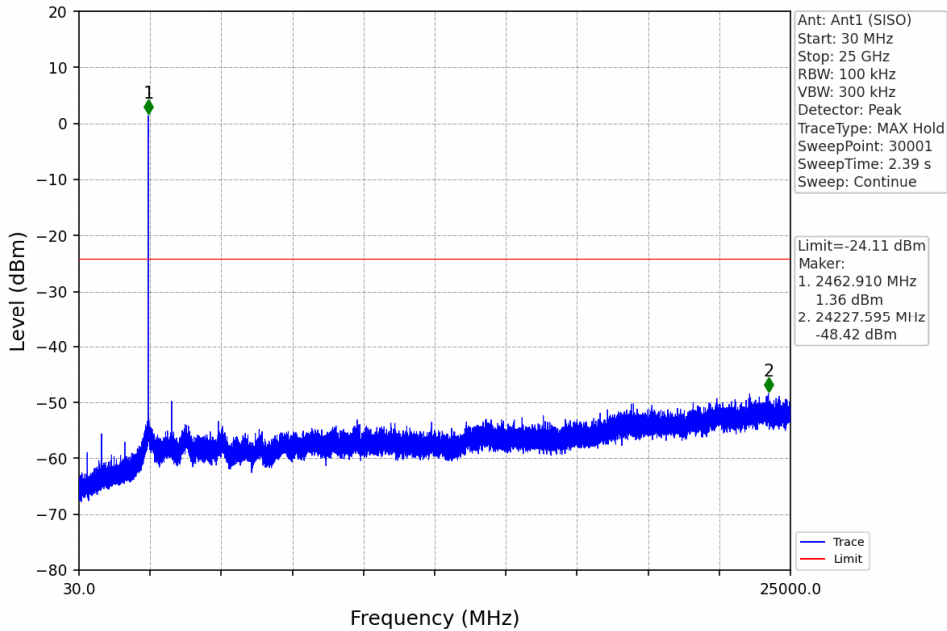


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

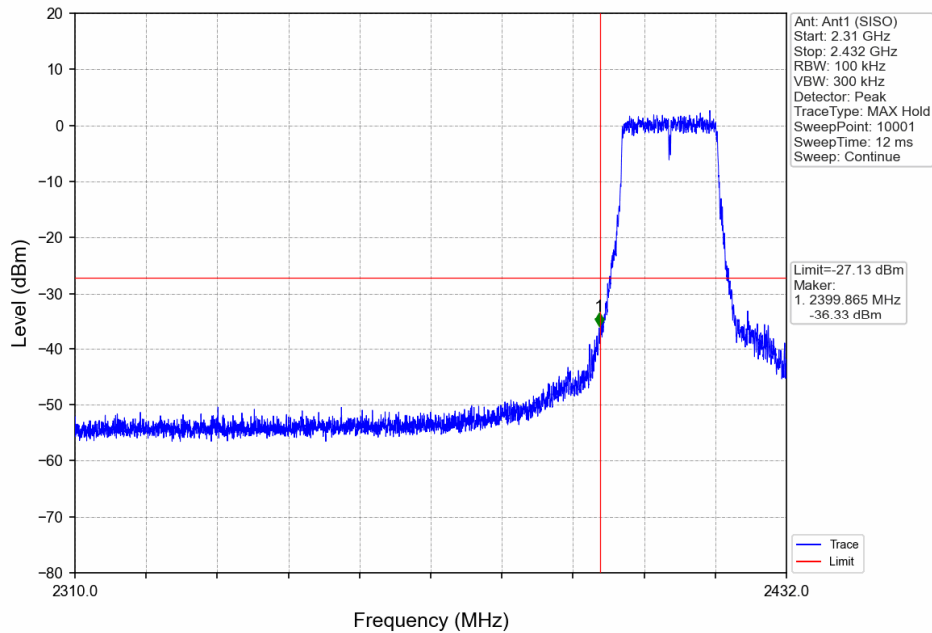


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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

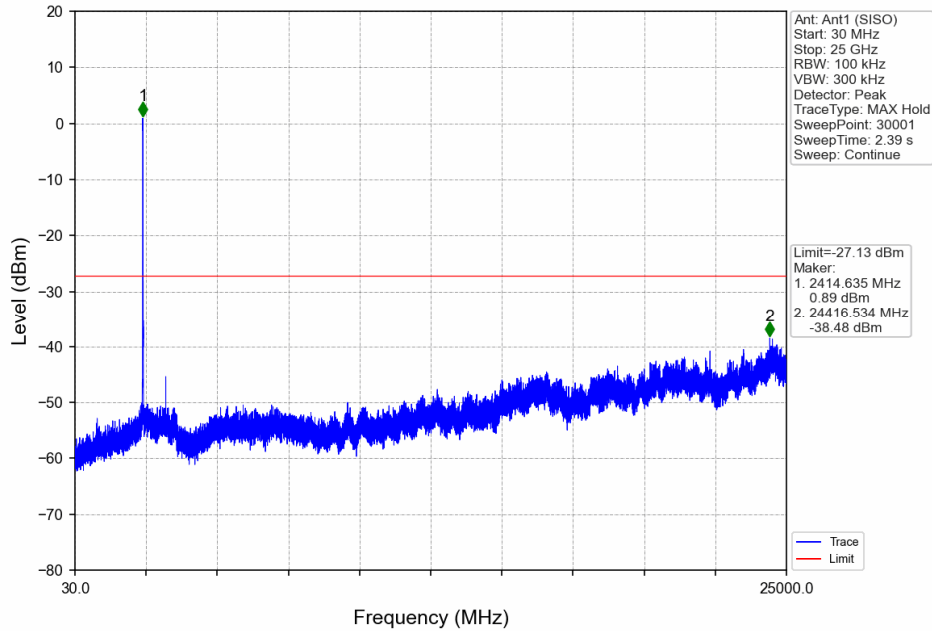


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

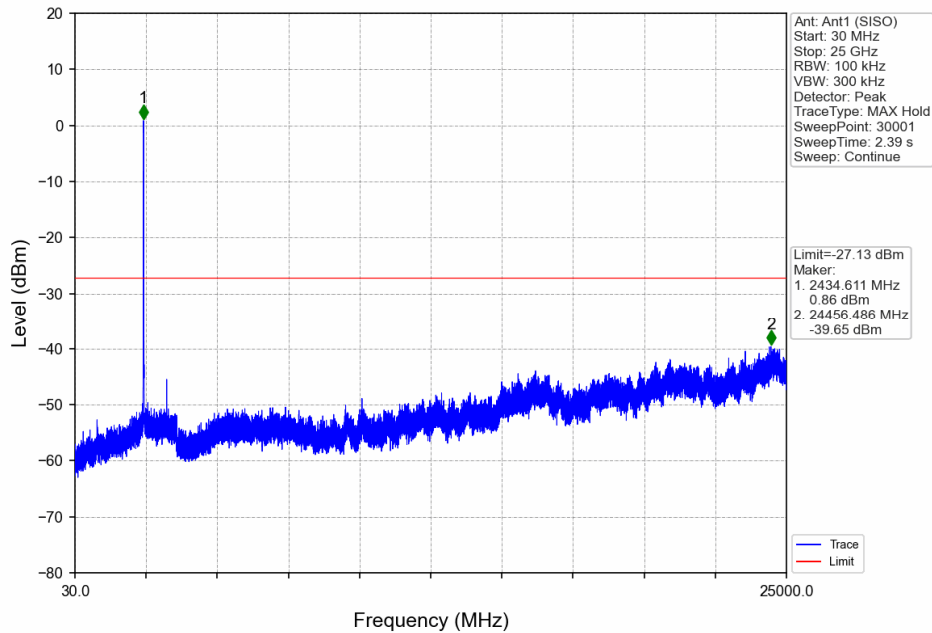


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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



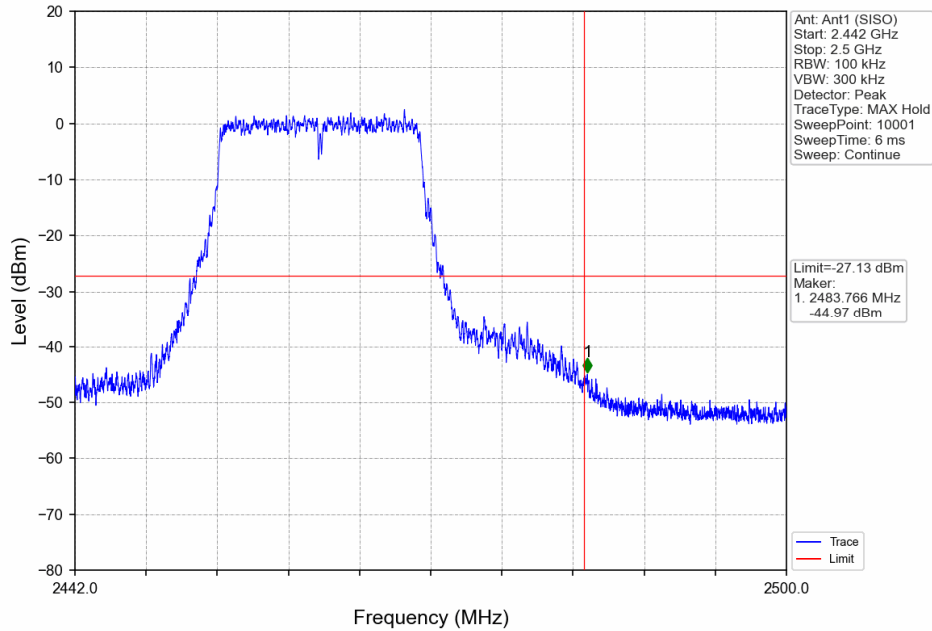
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



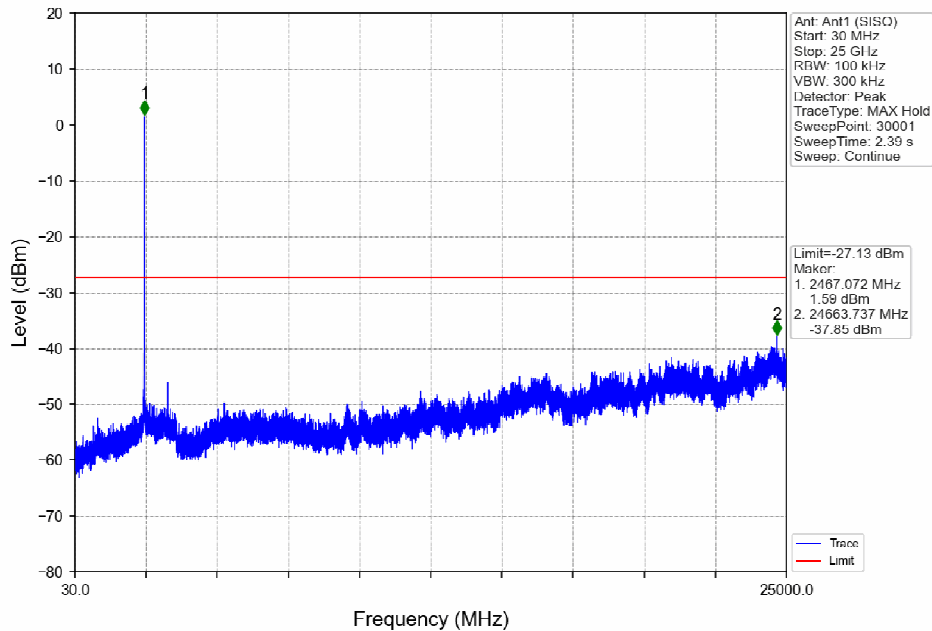
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



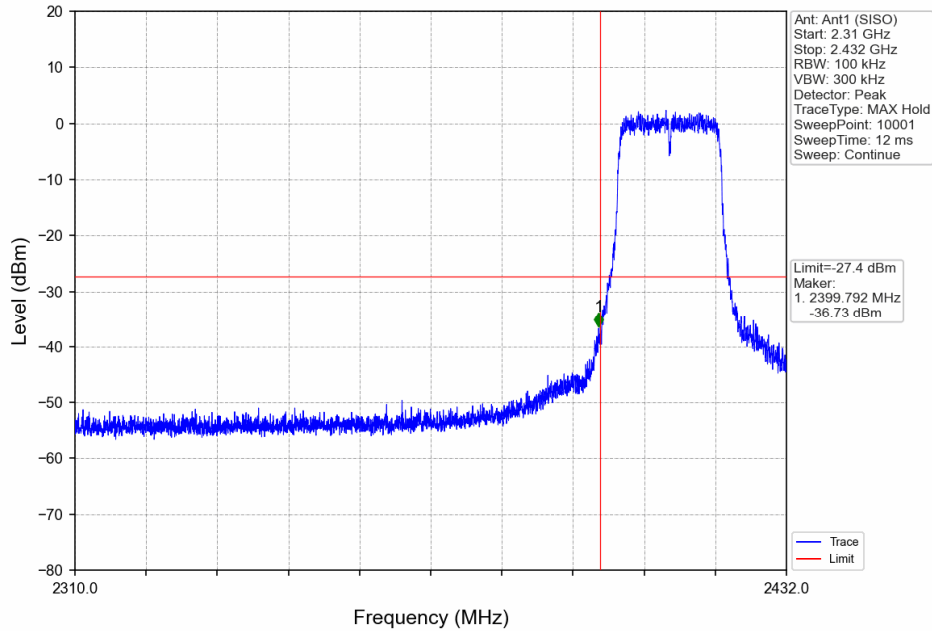
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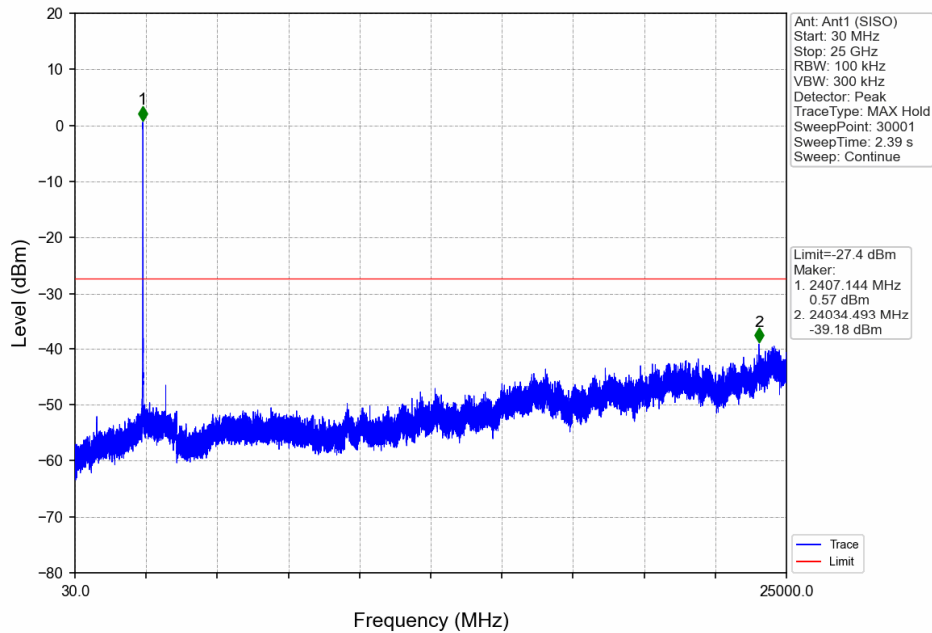
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



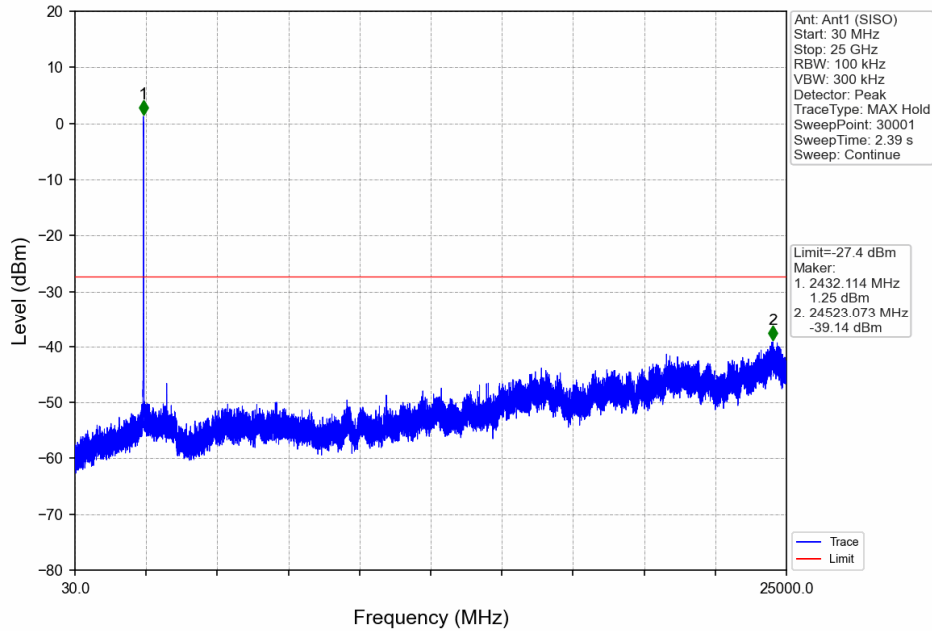
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



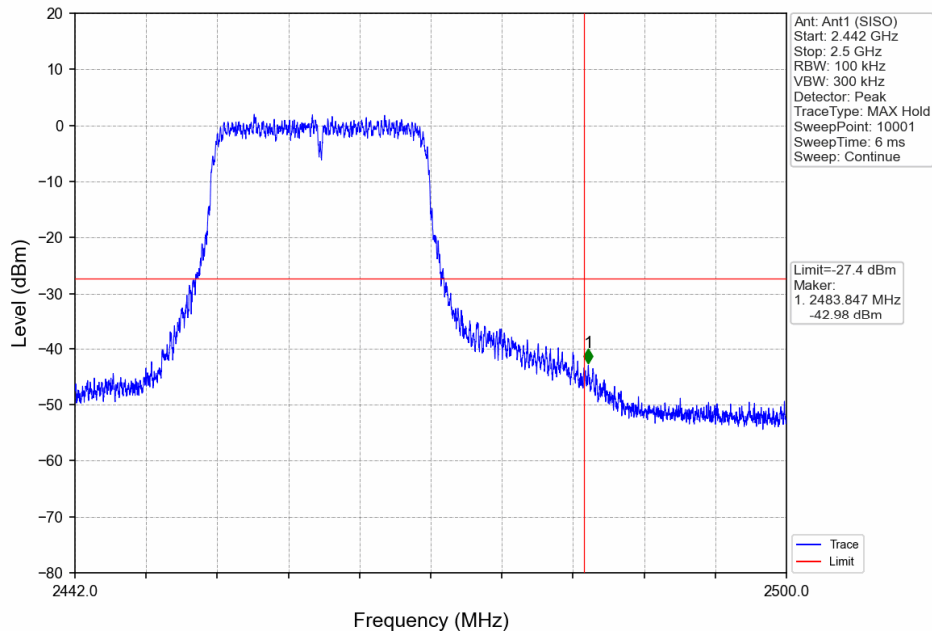
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

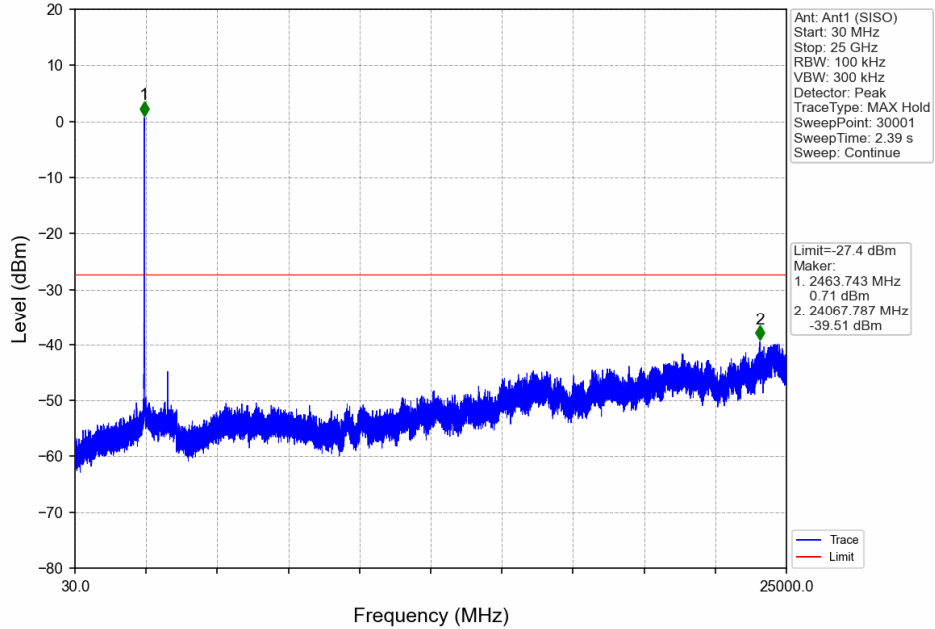


802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

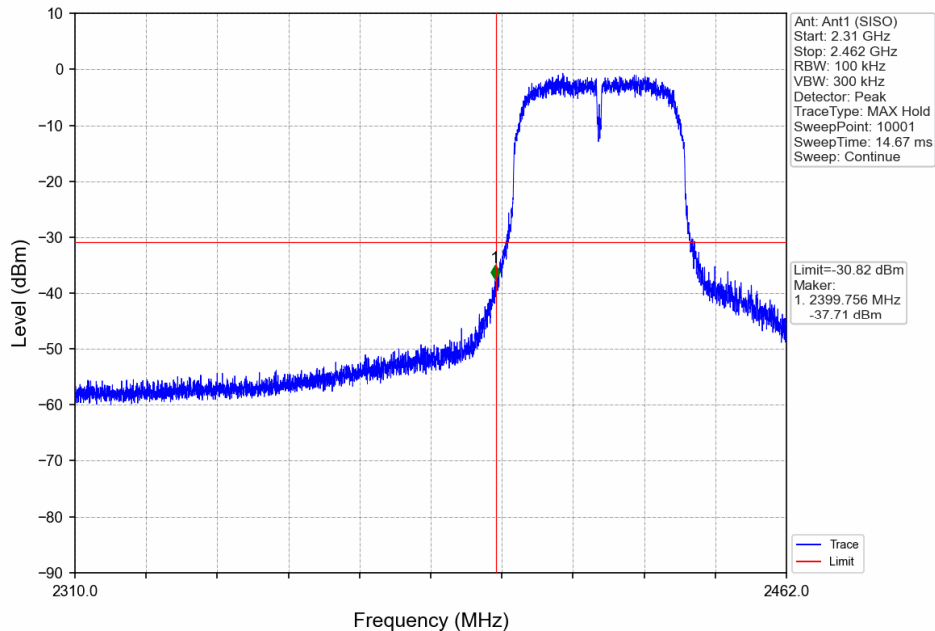


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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



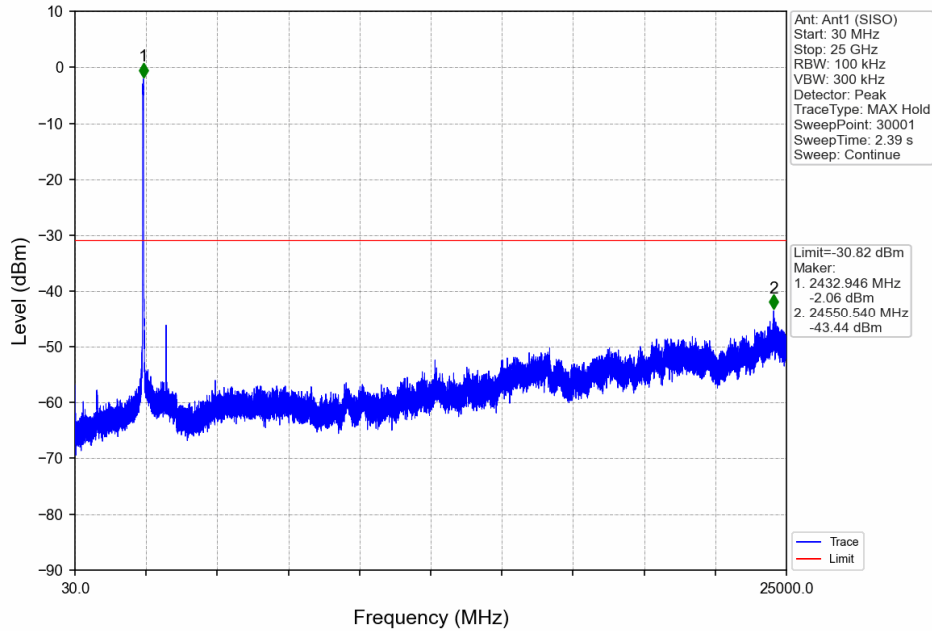
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



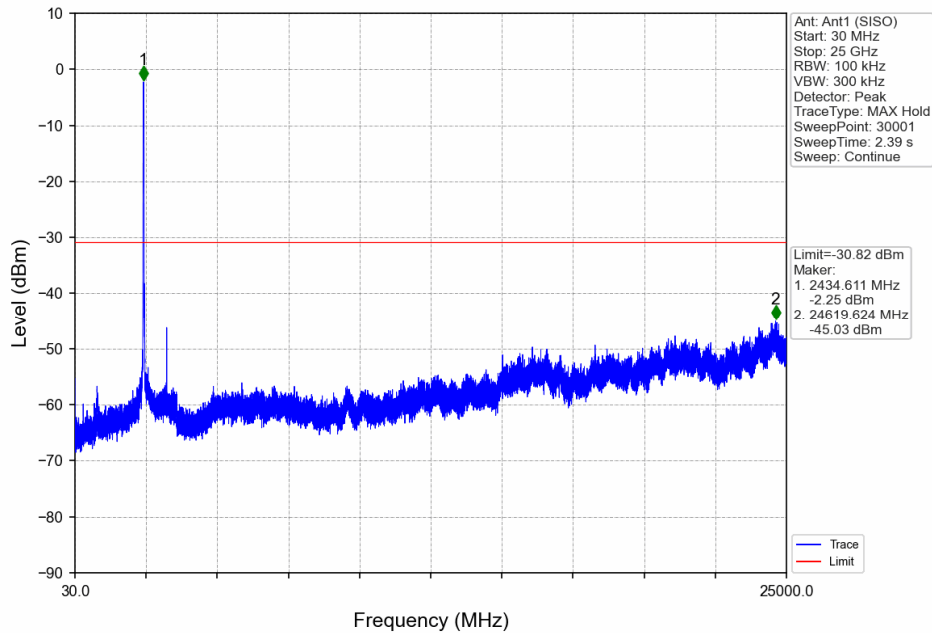
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

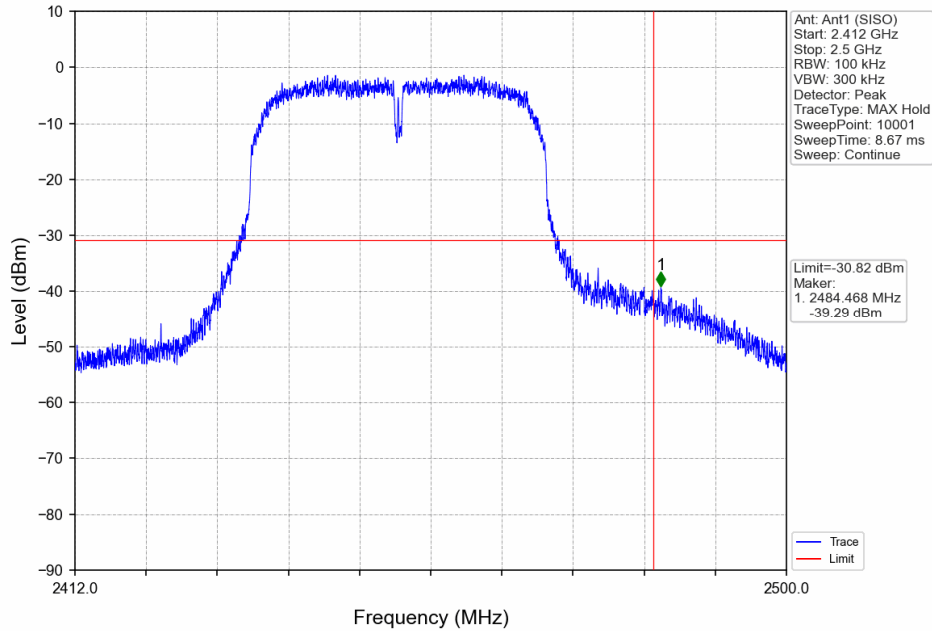


802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

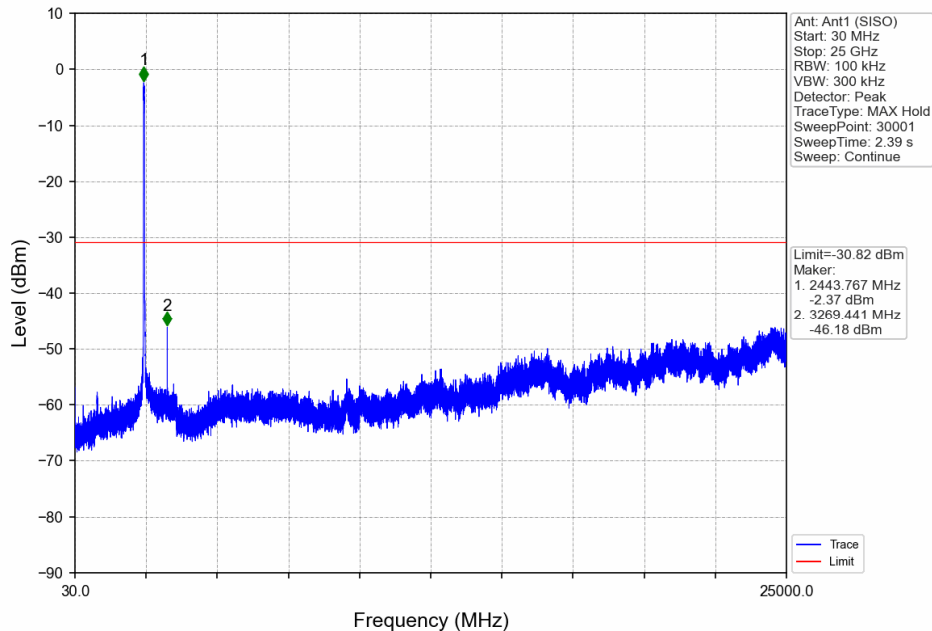


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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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6. Form731

6.1 Form731

6.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2412	2462	0.0368	15.66
2422	2452	0.0341	15.33

- End of the Report -



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