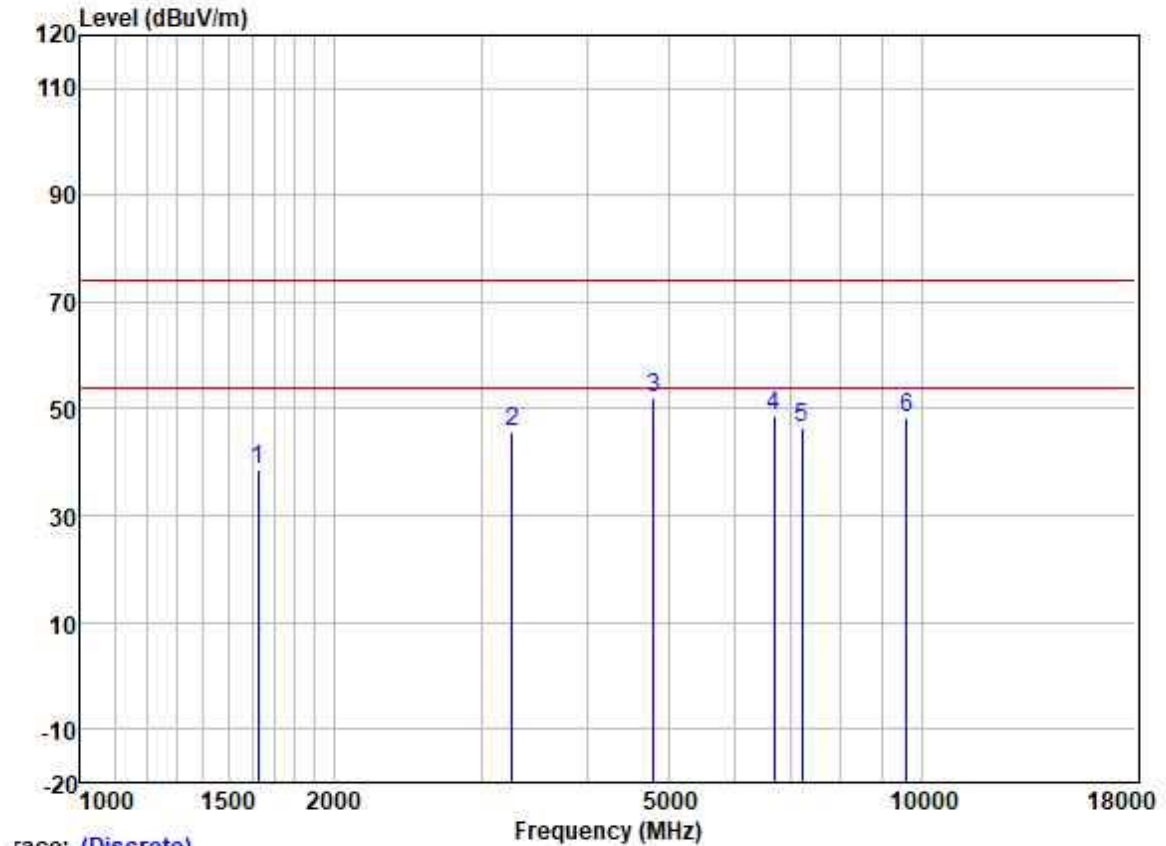


Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



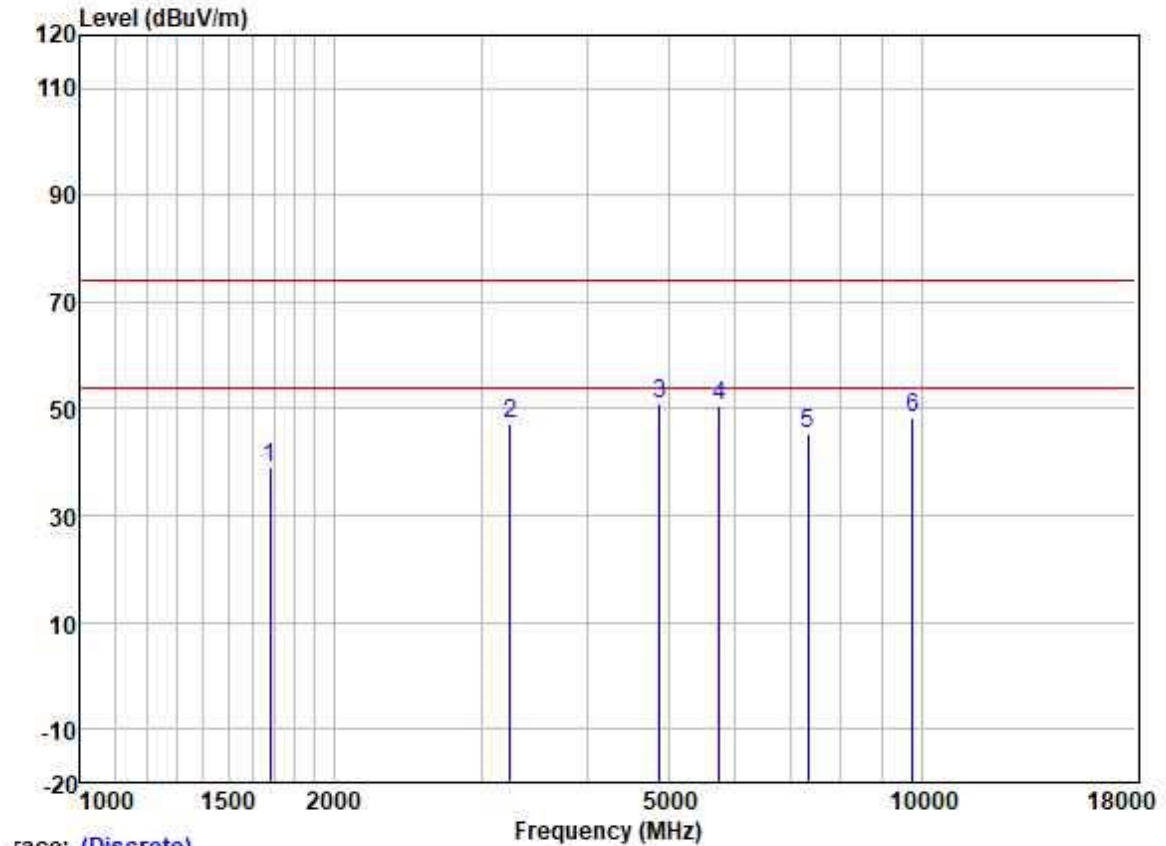
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	1625.121	47.83	25.61	2.80	37.55	74.00	-35.31	HORIZONTAL peak
2	3261.418	49.99	28.70	4.03	36.84	74.00	-28.12	HORIZONTAL peak
3	4804.000	51.75	31.42	5.40	36.51	74.00	-21.94	HORIZONTAL peak
4	6679.040	45.09	34.33	5.83	36.39	74.00	-25.14	HORIZONTAL peak
5	7206.000	41.88	35.54	5.98	36.92	74.00	-27.52	HORIZONTAL peak
6	9608.000	39.92	38.37	7.07	36.86	74.00	-25.50	HORIZONTAL peak



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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



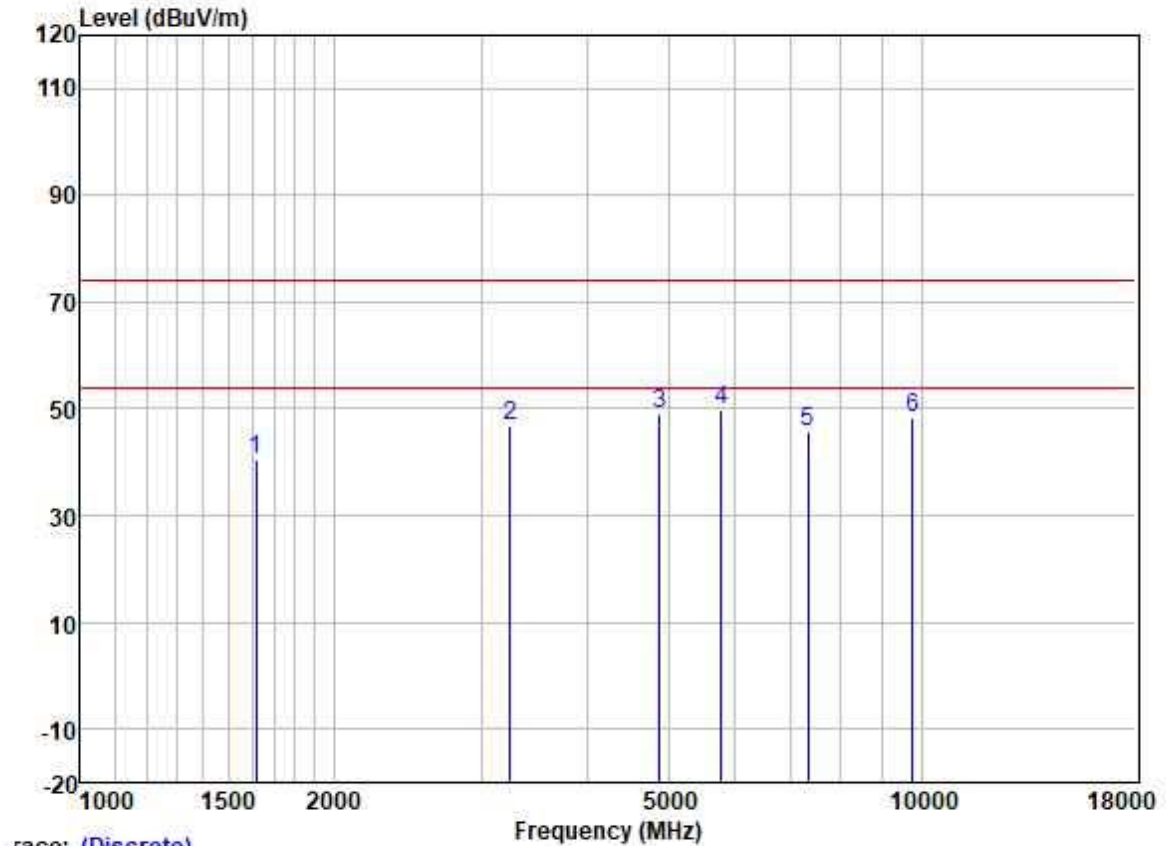
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	1682.477	47.85	25.68	2.80	37.48	74.00	-35.15	VERTICAL peak
2	3242.619	51.35	28.67	4.02	36.84	74.00	-26.80	VERTICAL peak
3	4880.000	50.48	31.54	5.50	36.48	74.00	-22.96	VERTICAL peak
4	5746.982	48.22	32.10	6.20	36.14	74.00	-23.62	VERTICAL peak
5	7320.000	40.34	36.00	6.13	37.01	74.00	-28.54	VERTICAL peak
6	9760.000	39.52	38.50	7.02	36.83	74.00	-25.79	VERTICAL peak



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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle



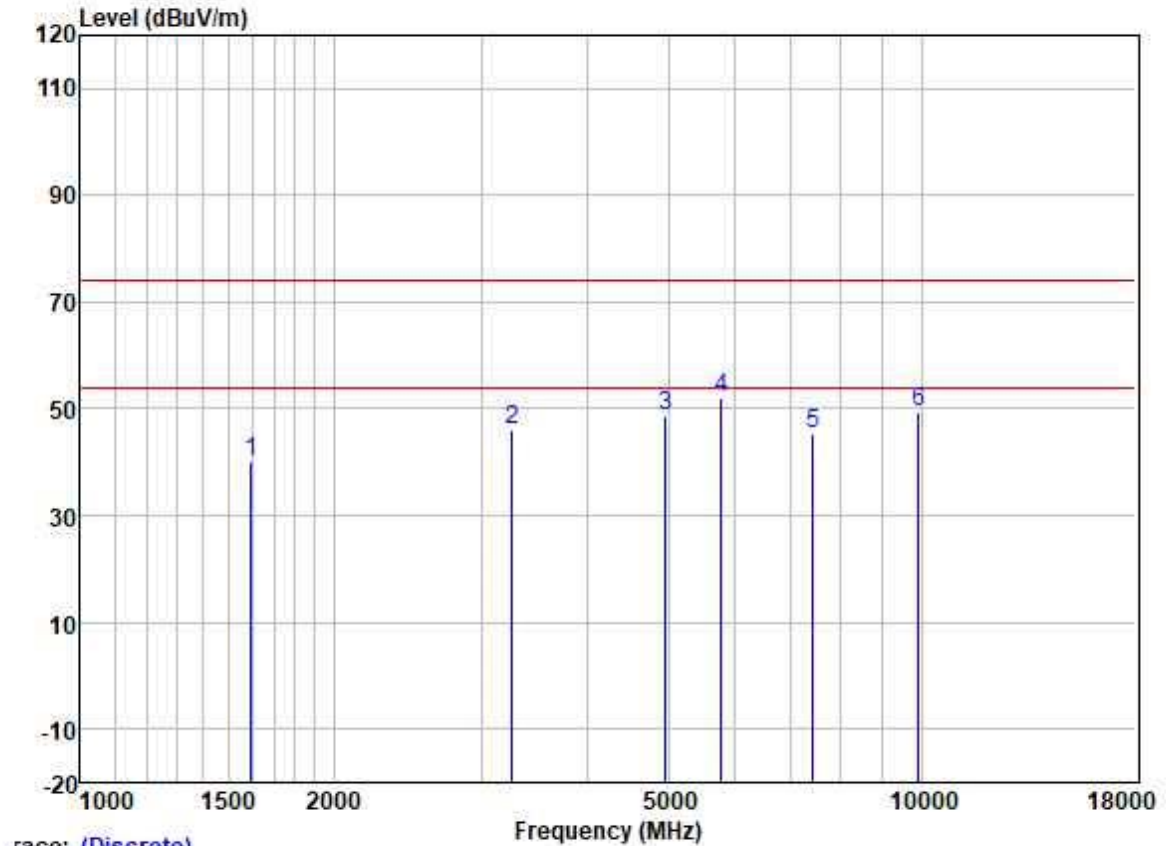
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	
1	1615.754	49.54	25.60	2.80	37.55	40.39	74.00	-33.61 HORIZONTAL peak
2	3242.619	50.79	28.67	4.02	36.84	46.64	74.00	-27.36 HORIZONTAL peak
3	4880.000	48.57	31.54	5.50	36.48	49.13	74.00	-24.87 HORIZONTAL peak
4	5780.300	47.54	32.16	6.10	36.14	49.66	74.00	-24.34 HORIZONTAL peak
5	7320.000	40.62	36.00	6.13	37.01	45.74	74.00	-28.26 HORIZONTAL peak
6	9760.000	39.68	38.50	7.02	36.83	48.37	74.00	-25.63 HORIZONTAL peak



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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



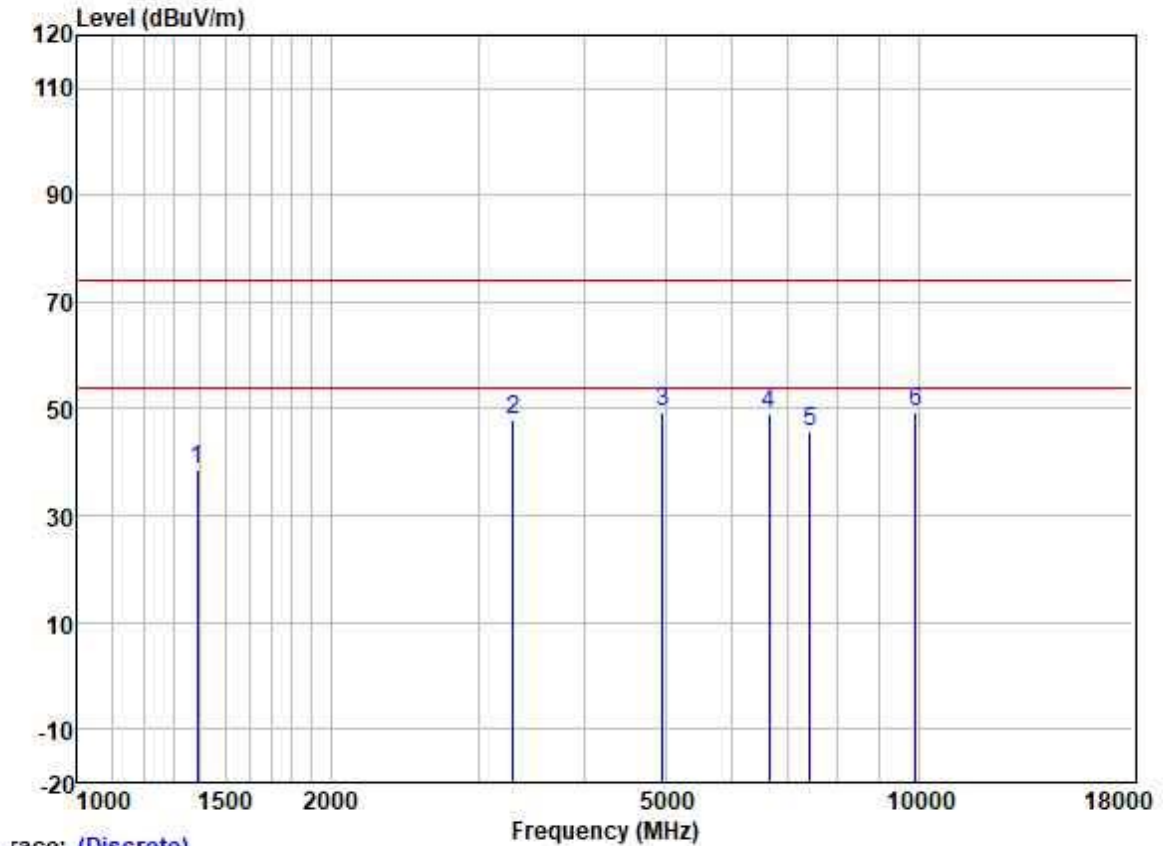
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	1597.181	49.36	25.58	2.80	37.58	40.16	74.00	-33.84 VERTICAL peak
2	3261.418	50.24	28.70	4.03	36.84	46.13	74.00	-27.87 VERTICAL peak
3	4960.000	47.75	31.65	5.65	36.43	48.62	74.00	-25.38 VERTICAL peak
4	5780.300	50.00	32.16	6.10	36.14	52.12	74.00	-21.88 VERTICAL peak
5	7440.000	40.00	36.27	6.22	37.08	45.41	74.00	-28.59 VERTICAL peak
6	9920.000	40.62	38.65	6.96	36.81	49.42	74.00	-24.58 VERTICAL peak



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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over				
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1390.276	48.70	25.38	2.60	37.92	38.76	74.00	-35.24	HORIZONTAL	peak
2	3299.344	52.02	28.75	4.06	36.83	48.00	74.00	-26.00	HORIZONTAL	peak
3	4960.000	48.62	31.65	5.65	36.43	49.49	74.00	-24.51	HORIZONTAL	peak
4	6640.542	45.19	34.24	5.83	36.37	48.89	74.00	-25.11	HORIZONTAL	peak
5	7440.000	40.48	36.27	6.22	37.08	45.89	74.00	-28.11	HORIZONTAL	peak
6	9920.000	40.50	38.65	6.96	36.81	49.30	74.00	-24.70	HORIZONTAL	peak



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8 Emission Test Results

8.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart C 15.247

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission (MHz)	Conducted limit (dBµV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		

8.1.1 E.U.T. Operation

Operating Environment:

Temperature: 18.8 °C Humidity: 52.9 % RH Atmospheric Pressure: 1014 mbar

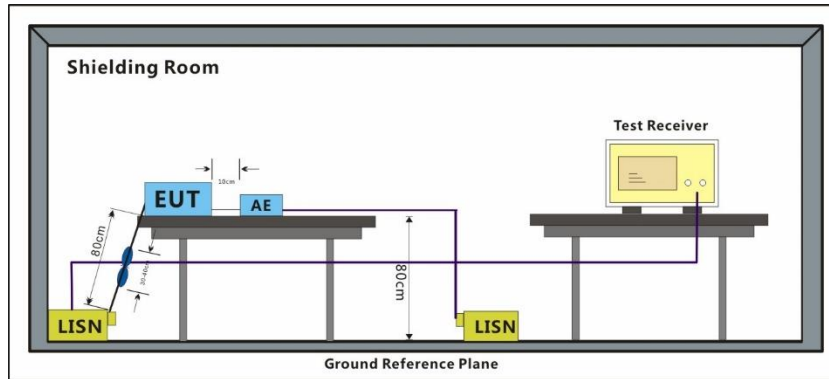
8.1.2 Test Mode Description

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.
Pre-scan	02	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.



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8.1.3 Test Setup Diagram



8.1.4 Measurement Procedure and Data

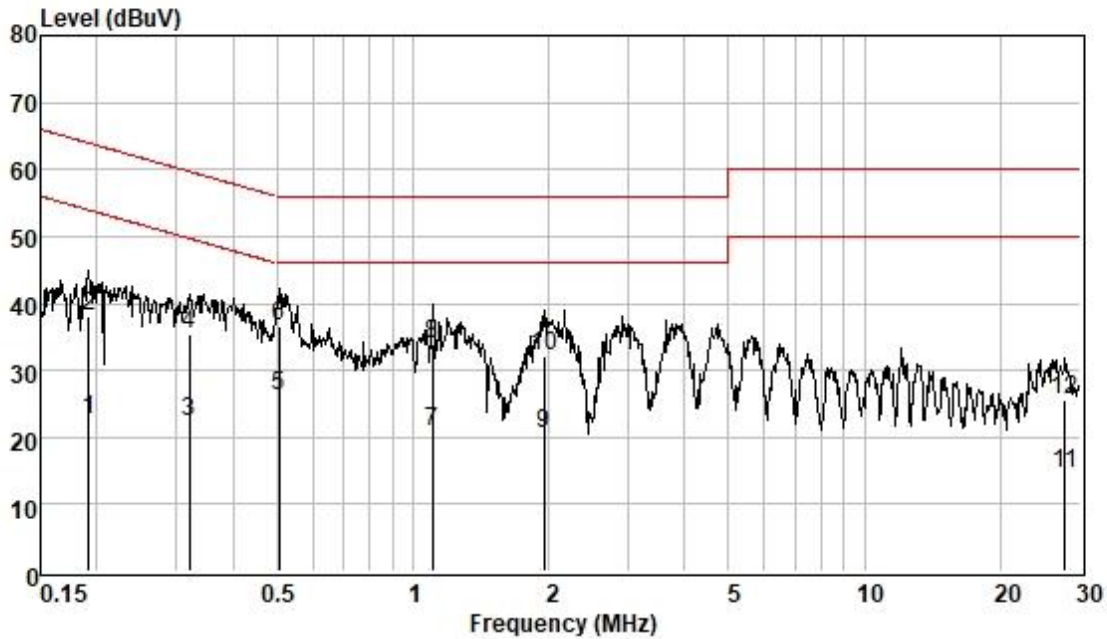
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 00; Line: Live line



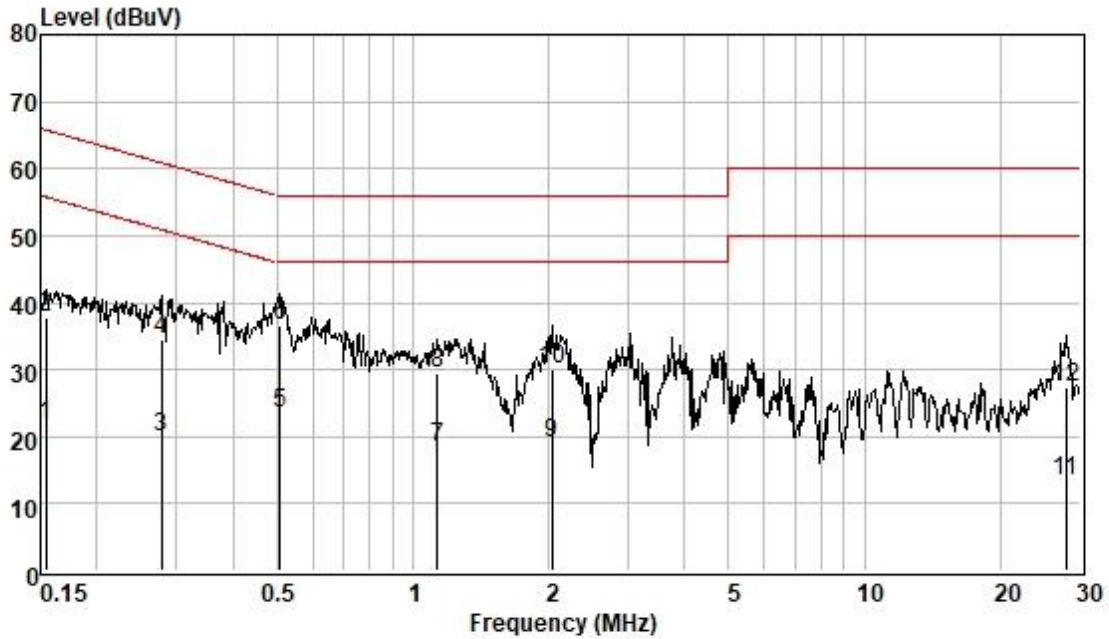
Pol :LINE
Mode :
Model :

Frequec MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.191	12.90	0.06	9.56	22.52	53.98	-31.46	Average
0.191	28.34	0.06	9.56	37.96	63.98	-26.02	QP
0.320	12.76	0.06	9.57	22.39	49.71	-27.32	Average
0.320	25.86	0.06	9.57	35.49	59.71	-24.22	QP
0.505	16.51	0.07	9.59	26.17	46.00	-19.83	Average
0.505	26.78	0.07	9.59	36.44	56.00	-19.56	QP
1.106	11.07	0.08	9.60	20.75	46.00	-25.25	Average
1.106	24.22	0.08	9.60	33.90	56.00	-22.10	QP
1.949	10.76	0.12	9.60	20.48	46.00	-25.52	Average
1.949	22.43	0.12	9.60	32.15	56.00	-23.85	QP
27.708	4.37	0.43	9.76	14.56	50.00	-35.44	Average
27.708	15.49	0.43	9.76	25.68	60.00	-34.32	QP



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Test Mode: 00; Line: Neutral Line



Pol : NEUTRAL
Mode :
Model :

Freque _{nc} MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.154	12.03	0.06	9.53	21.62	55.78	-34.16	Average
0.154	28.19	0.06	9.53	37.78	65.78	-28.00	QP
0.277	10.25	0.06	9.57	19.88	50.90	-31.02	Average
0.277	24.83	0.06	9.57	34.46	60.90	-26.44	QP
0.507	13.89	0.07	9.58	23.54	46.00	-22.46	Average
0.507	26.89	0.07	9.58	36.54	56.00	-19.46	QP
1.135	8.83	0.08	9.59	18.50	46.00	-27.50	Average
1.135	19.87	0.08	9.59	29.54	56.00	-26.46	QP
2.033	9.32	0.12	9.59	19.03	46.00	-26.97	Average
2.033	20.43	0.12	9.59	30.14	56.00	-25.86	QP
27.855	3.03	0.43	9.91	13.37	50.00	-36.63	Average
27.855	17.01	0.43	9.91	27.35	60.00	-32.65	QP



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9 Test Setup Photo

Refer to Appendix_Setup Photo for GZCR220100014202



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10 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2201000142AT



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11 Appendix

1. Bandwidth

1.1 6dB BW

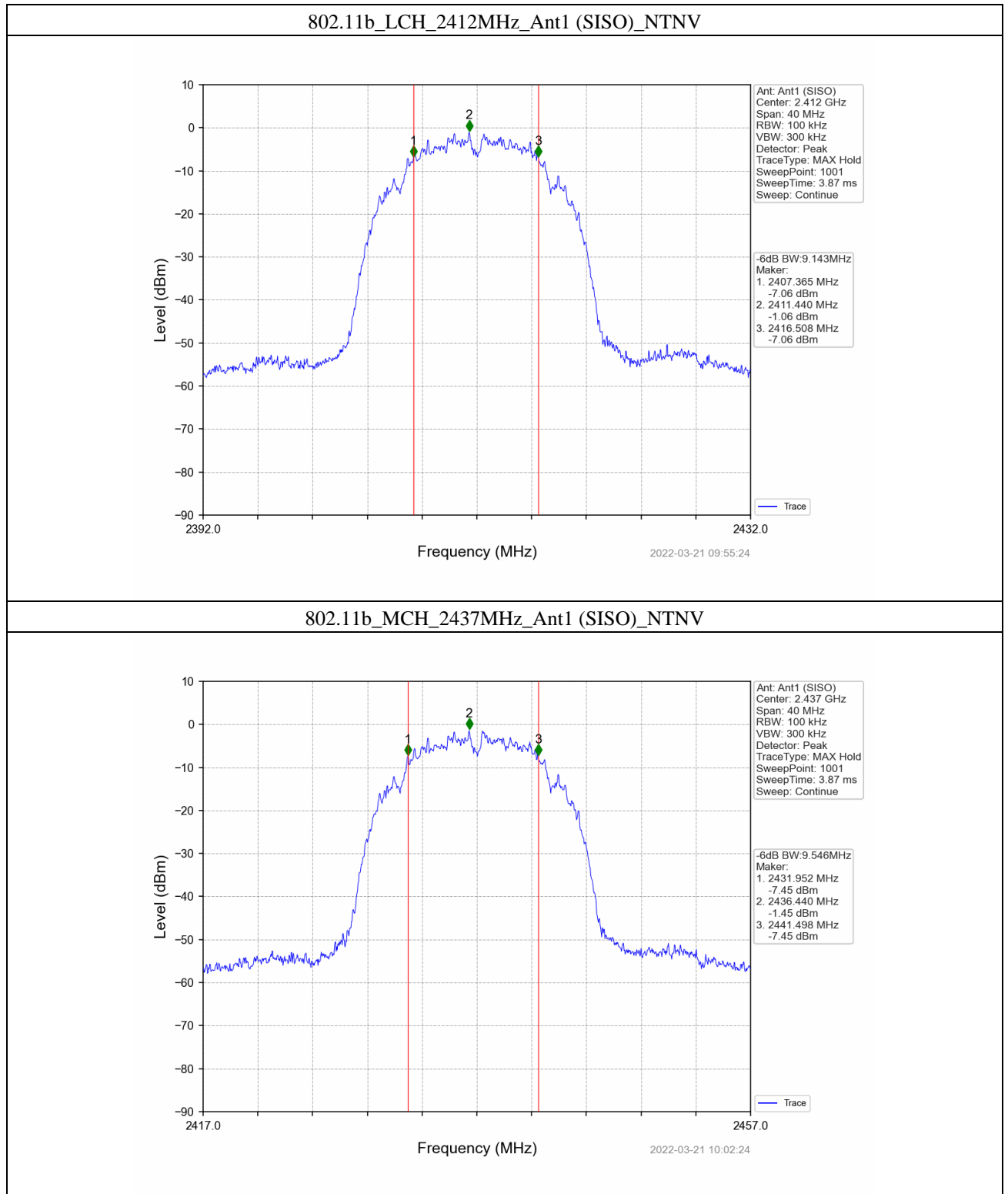
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.143	>=0.5	Pass
		2437	1	9.546	>=0.5	Pass
		2462	1	9.568	>=0.5	Pass
802.11g		2412	1	16.424	>=0.5	Pass
		2437	1	16.422	>=0.5	Pass
		2462	1	16.411	>=0.5	Pass
802.11n (HT20)		2412	1	17.020	>=0.5	Pass
		2437	1	17.046	>=0.5	Pass
		2462	1	17.045	>=0.5	Pass
802.11n (HT40)		2422	1	31.275	>=0.5	Pass
		2437	1	30.981	>=0.5	Pass
		2452	1	31.942	>=0.5	Pass
1M	2402	1	0.643	>=0.5	Pass	
	2440	1	0.641	>=0.5	Pass	
	2480	1	0.644	>=0.5	Pass	



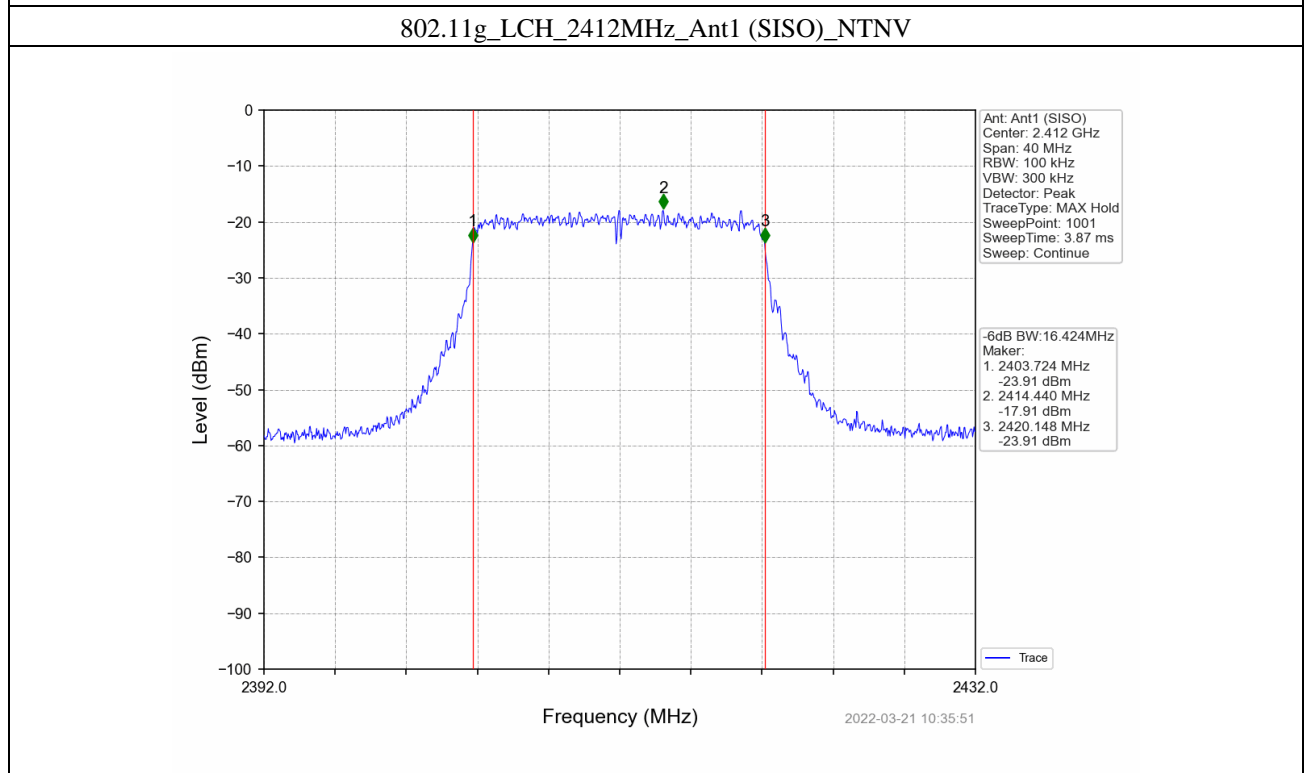
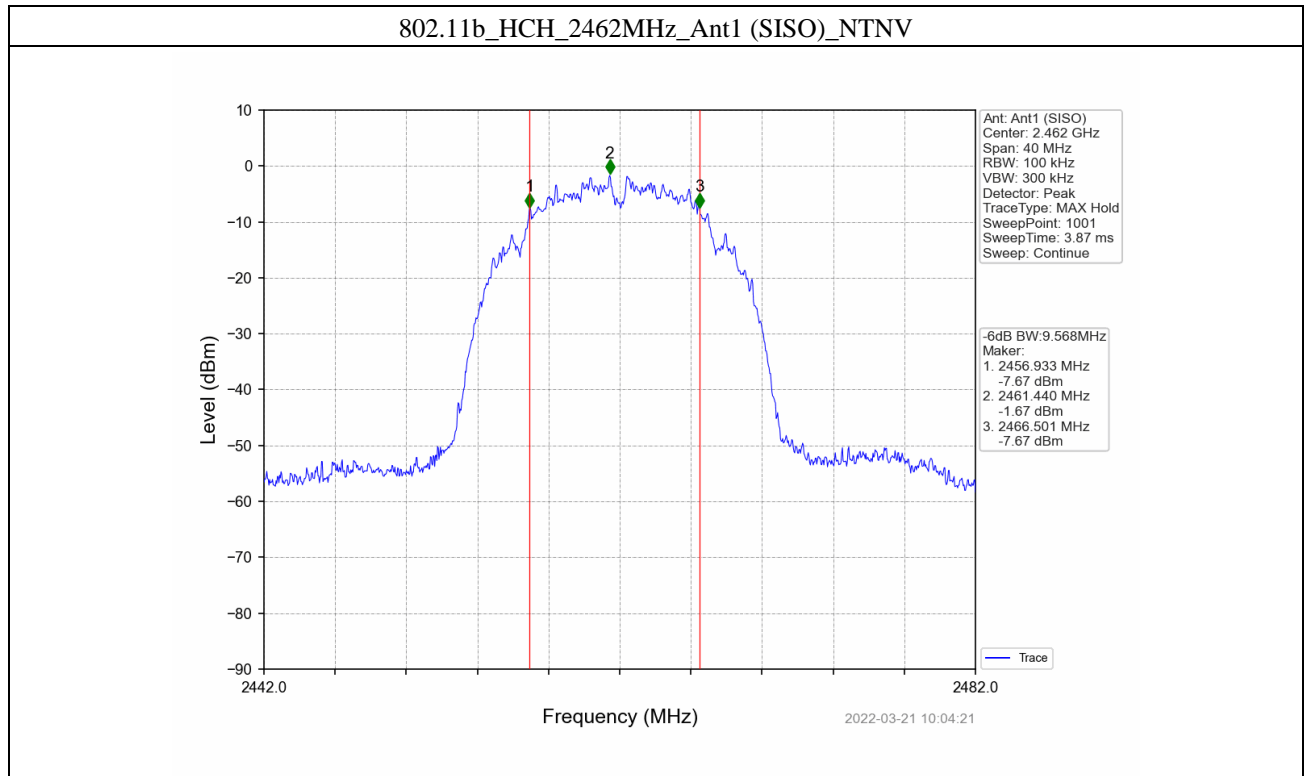
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1.1.2 Test Graph



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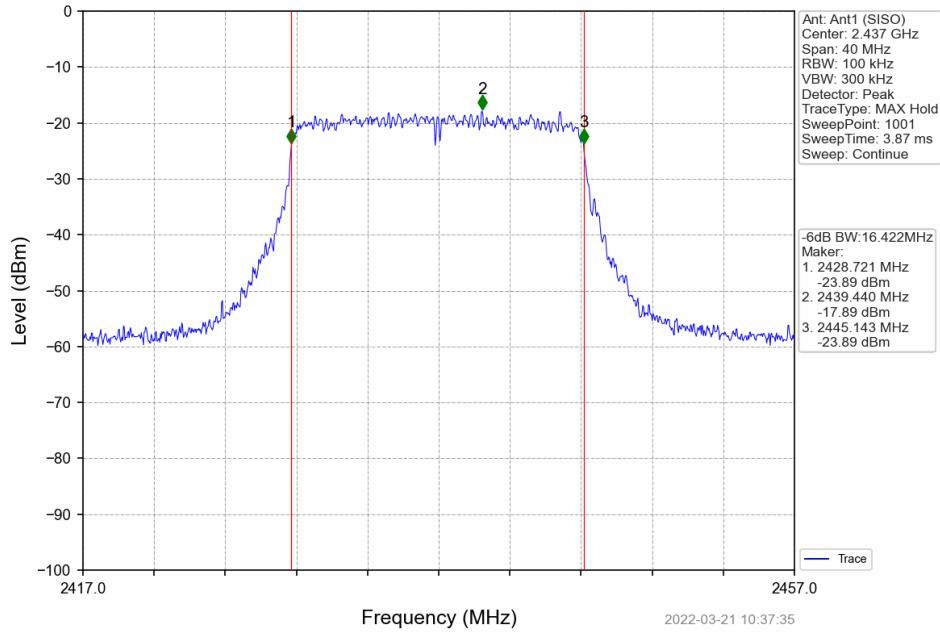
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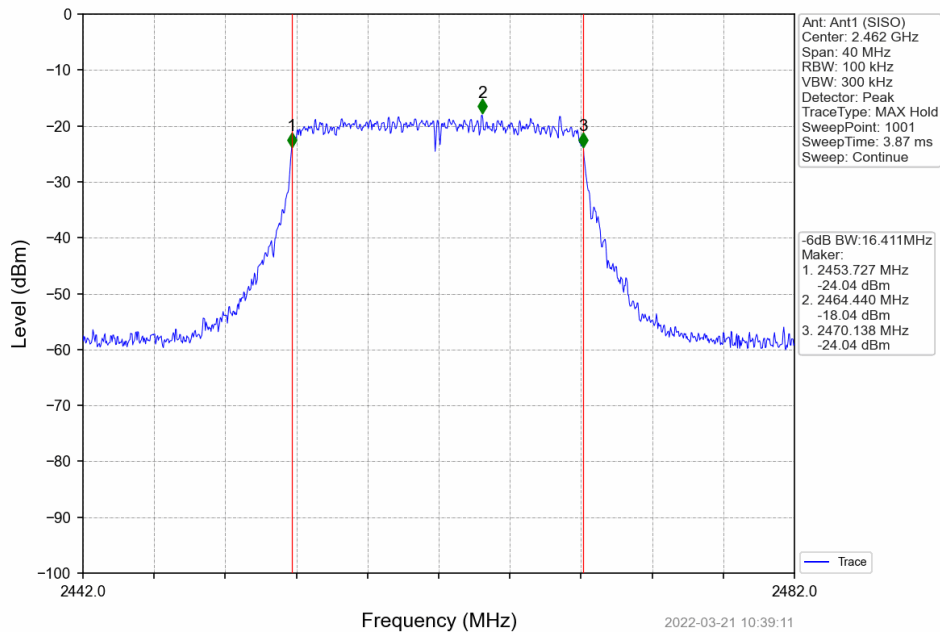
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

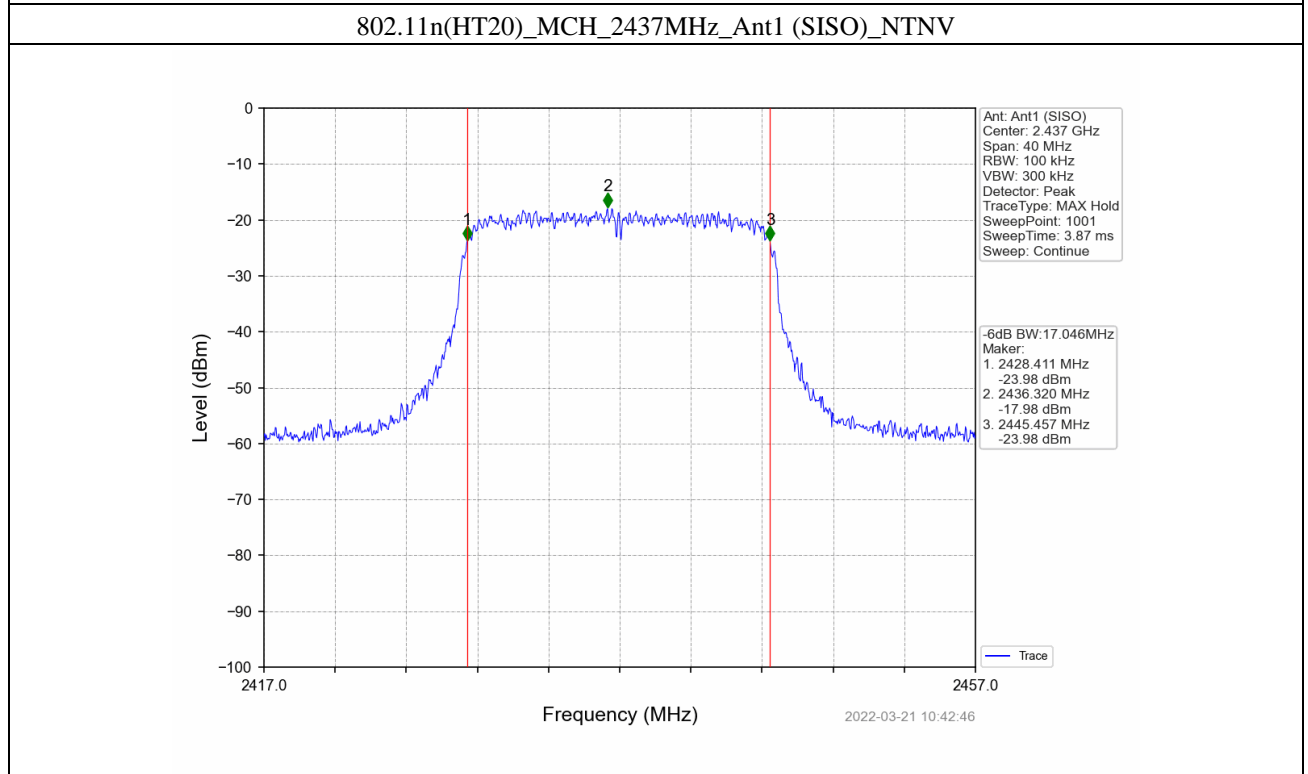
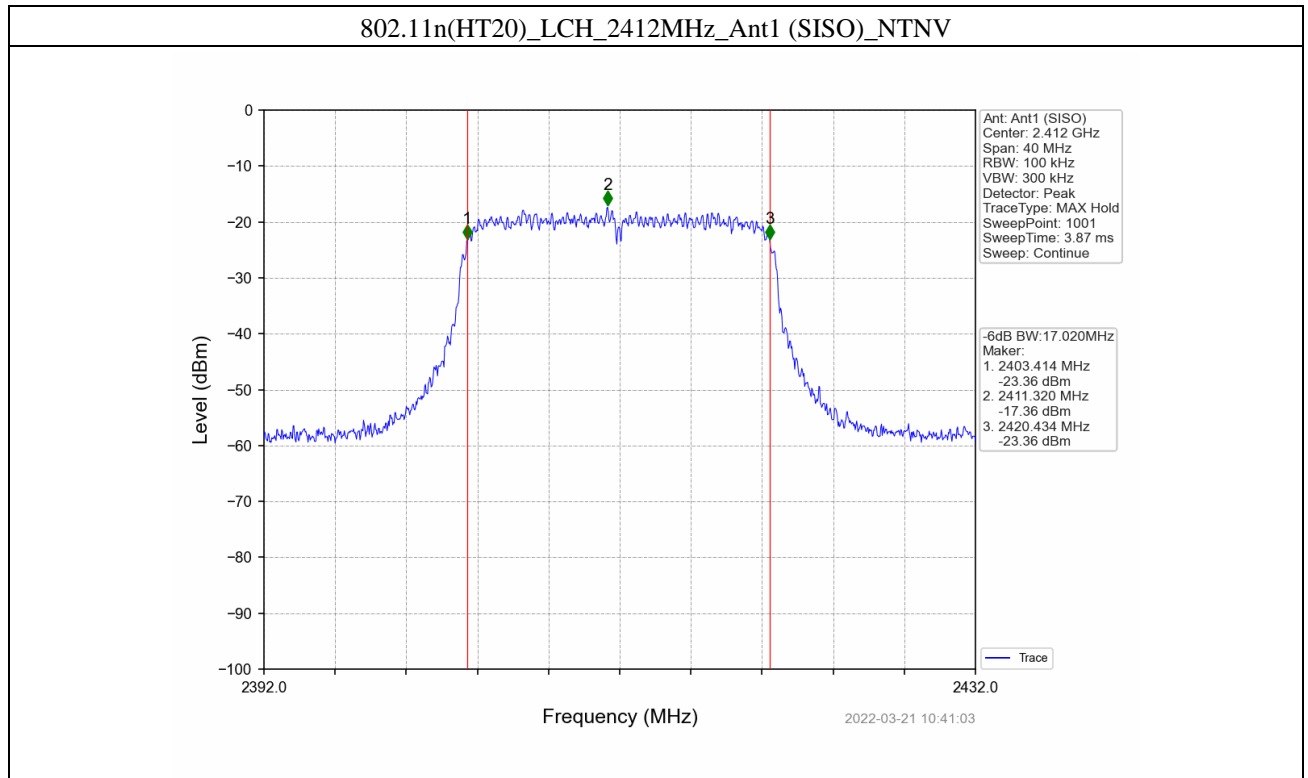


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



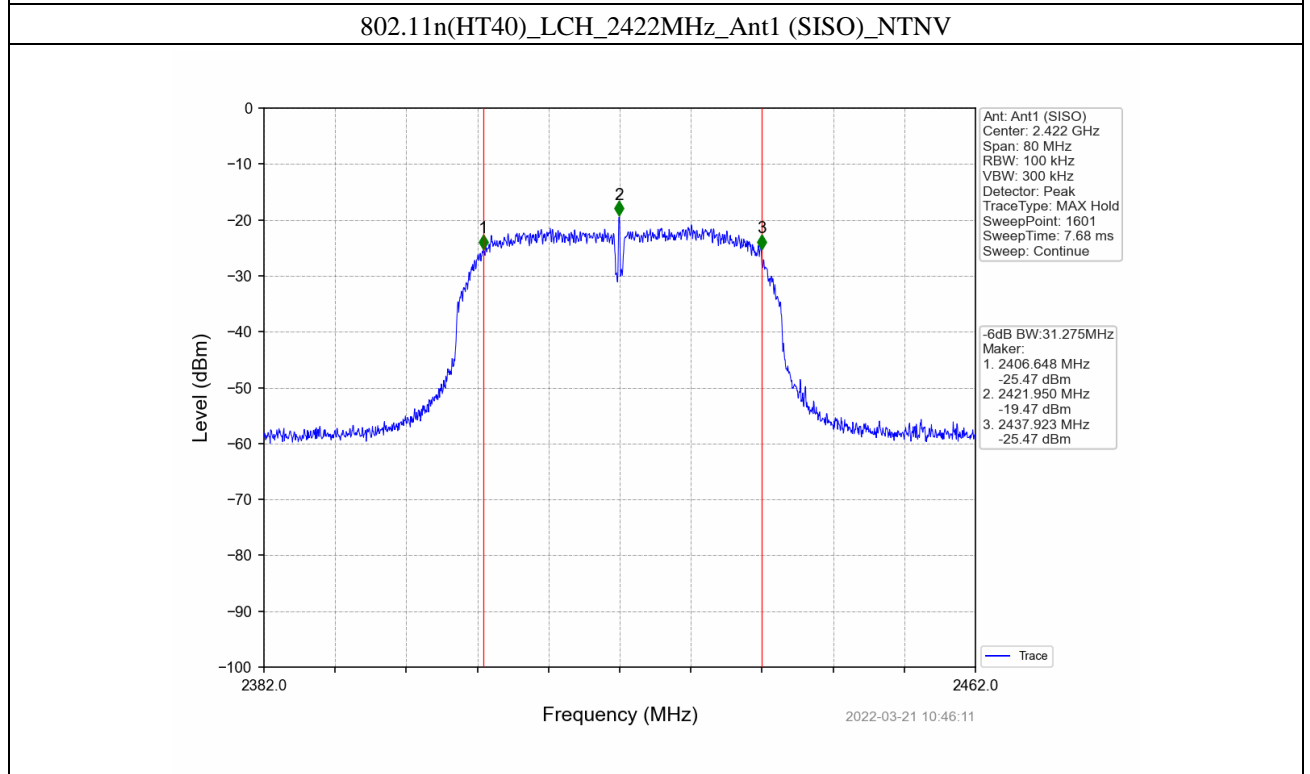
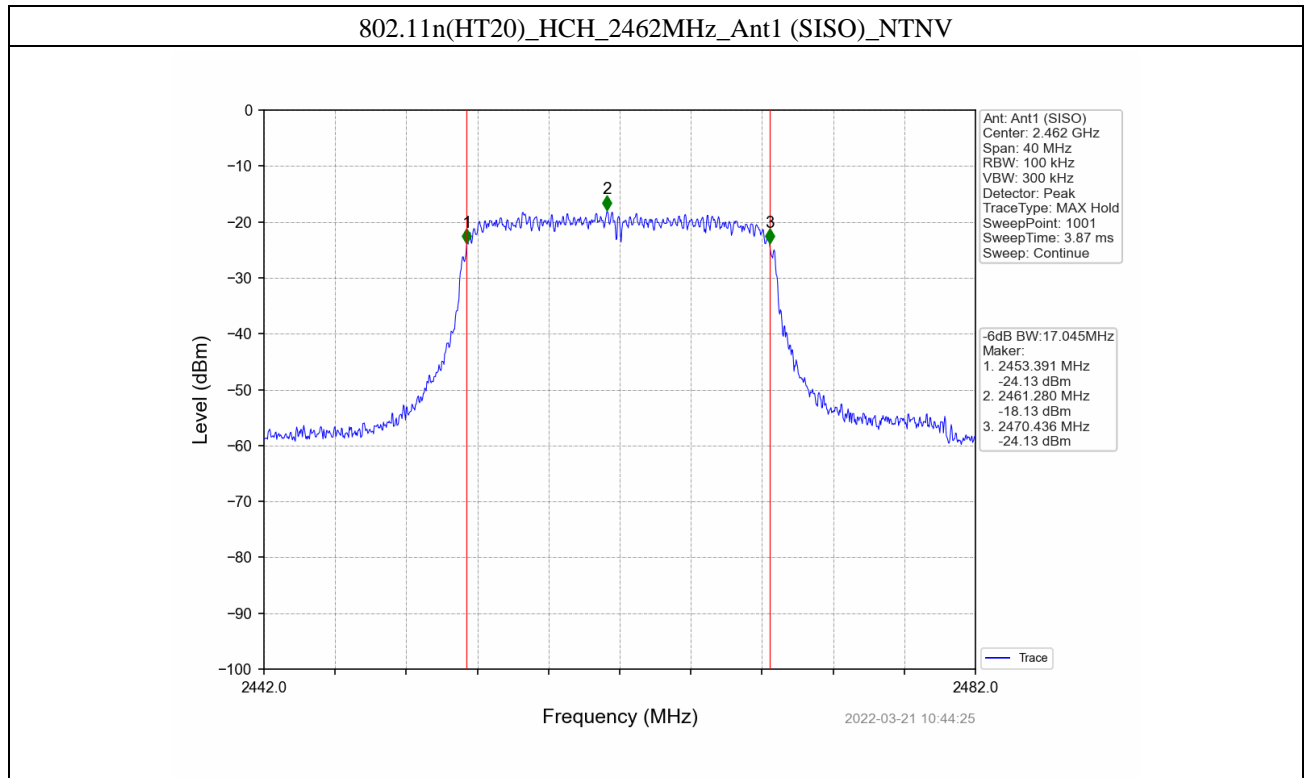
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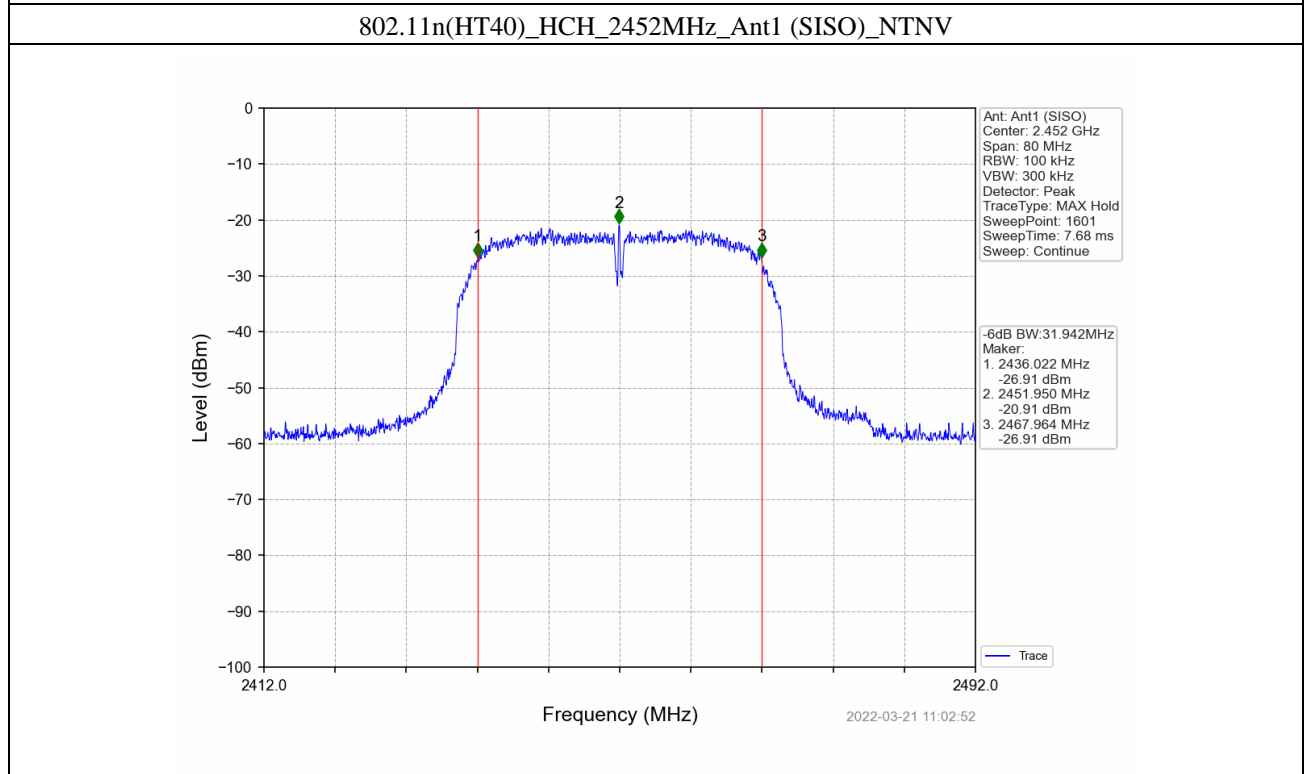
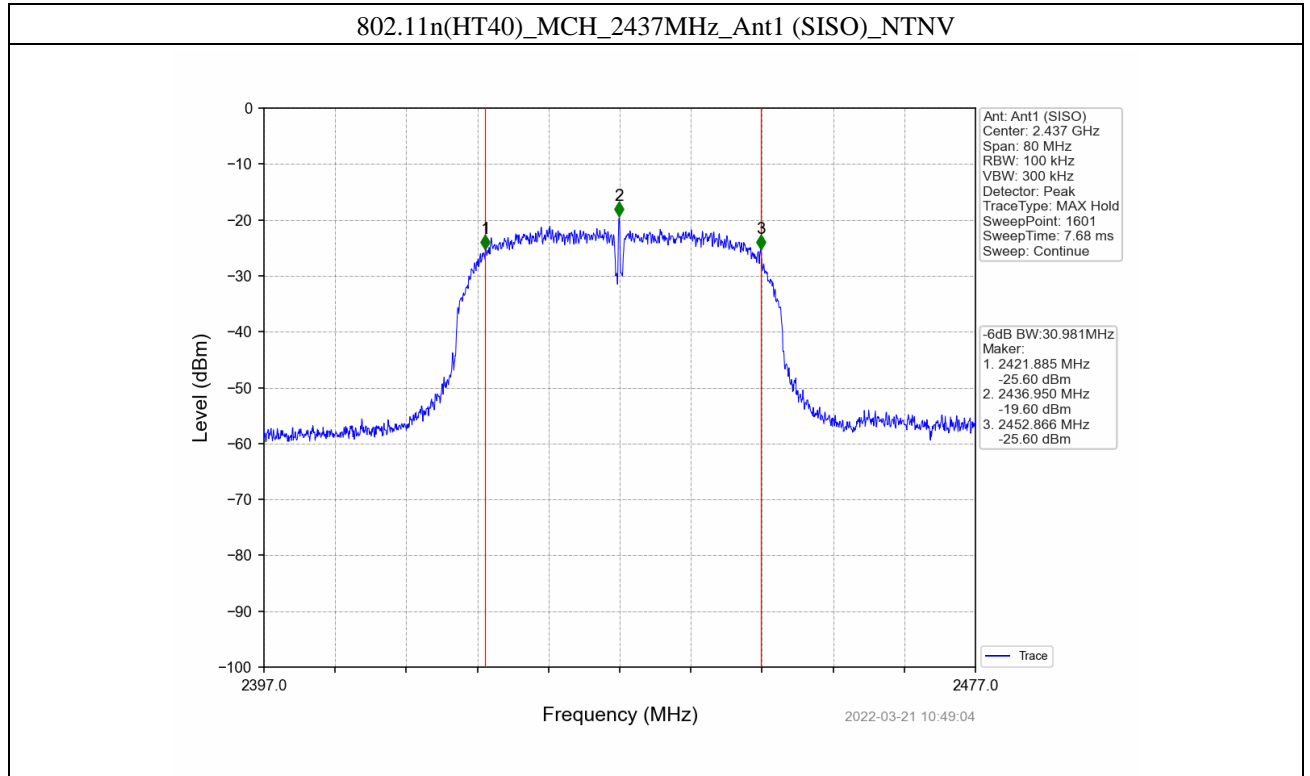
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2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	13.63	<=30	Pass
		2437	13.32	<=30	Pass
		2462	13.01	<=30	Pass
802.11g	SISO	2412	3.13	<=30	Pass
		2437	3.12	<=30	Pass
		2462	2.90	<=30	Pass
802.11n (HT20)	SISO	2412	3.16	<=30	Pass
		2437	3.11	<=30	Pass
		2462	2.88	<=30	Pass
802.11n (HT40)	SISO	2422	2.96	<=30	Pass
		2437	2.59	<=30	Pass
		2452	2.49	<=30	Pass
1M	SISO	2402	3.52	<=30	Pass
		2440	3.63	<=30	Pass
		2480	2.87	<=30	Pass

Note1: Antenna Gain: Ant1: 3.71dBi;



3. Maximum Power Spectral Density

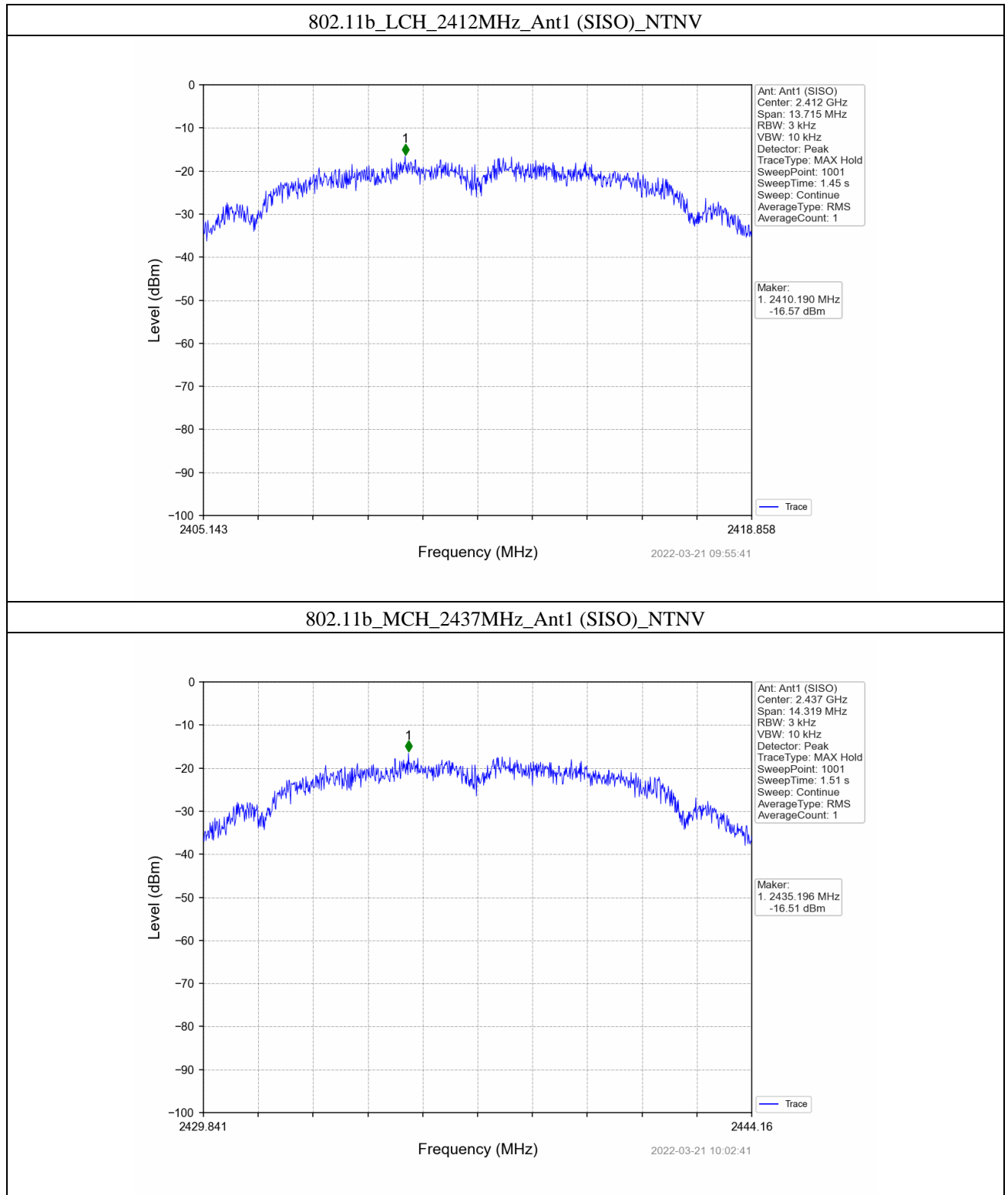
3.1 PSD

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-16.57	<=8	Pass
		2437	-16.51	<=8	Pass
		2462	-16.80	<=8	Pass
802.11g		2412	-23.84	<=8	Pass
		2437	-24.19	<=8	Pass
		2462	-24.24	<=8	Pass
802.11n (HT20)		2412	-23.57	<=8	Pass
		2437	-22.50	<=8	Pass
		2462	-21.63	<=8	Pass
802.11n (HT40)		2422	-22.97	<=8	Pass
		2437	-20.85	<=8	Pass
		2452	-24.36	<=8	Pass
1M	2402	-11.88	<=8	Pass	
	2440	-11.87	<=8	Pass	
	2480	-12.75	<=8	Pass	

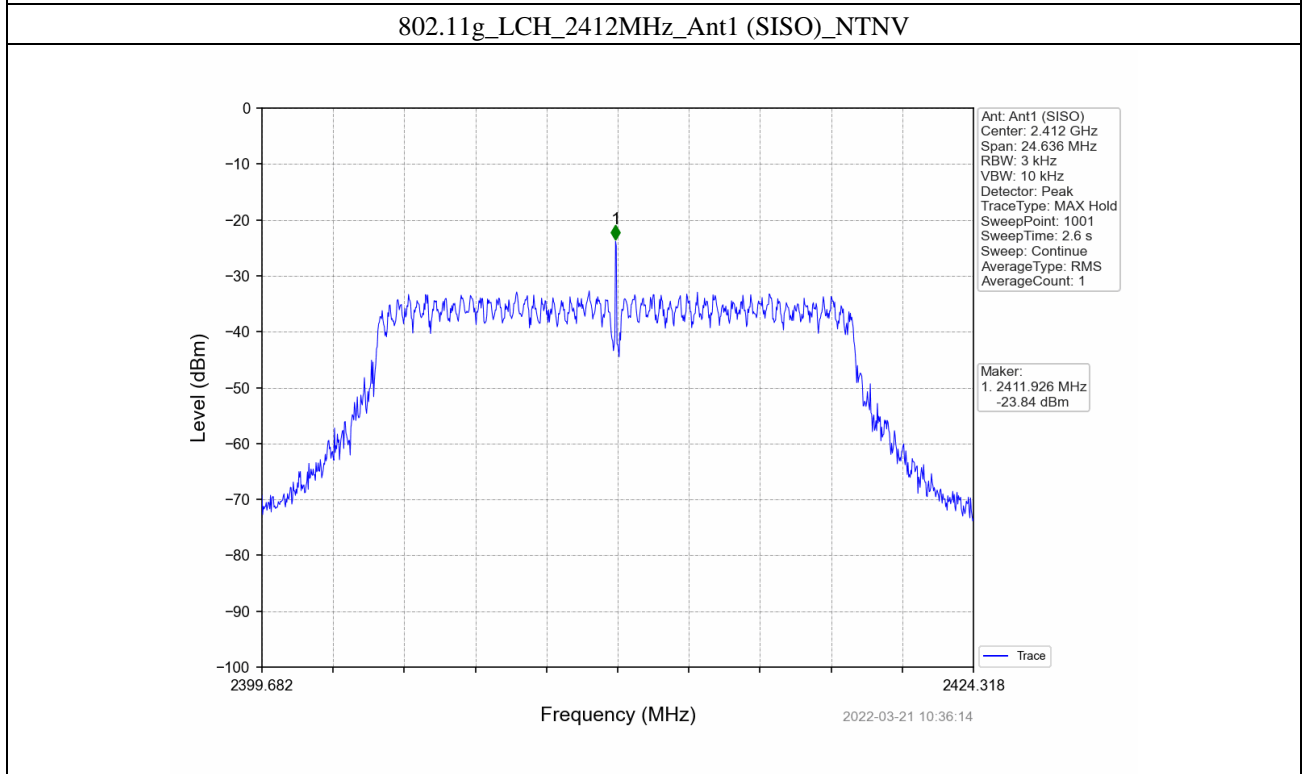
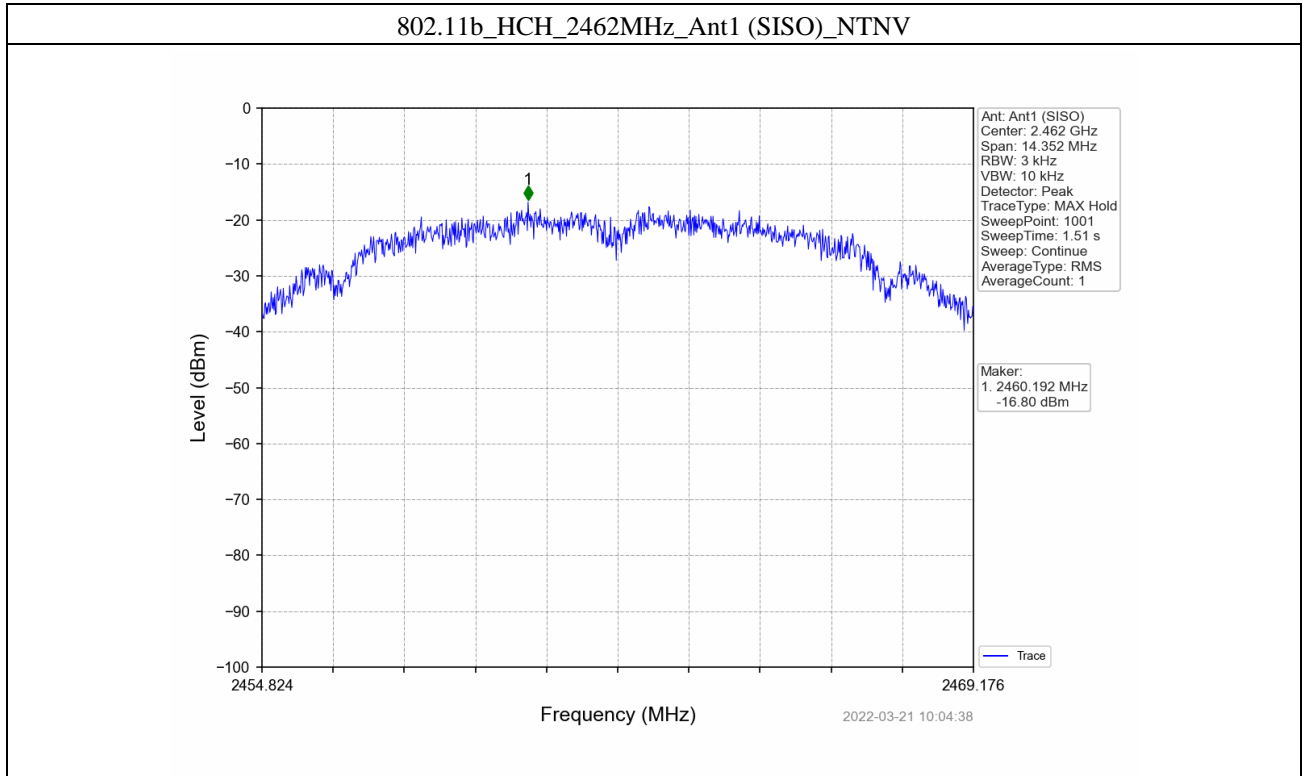


3.1.2 Test Graph



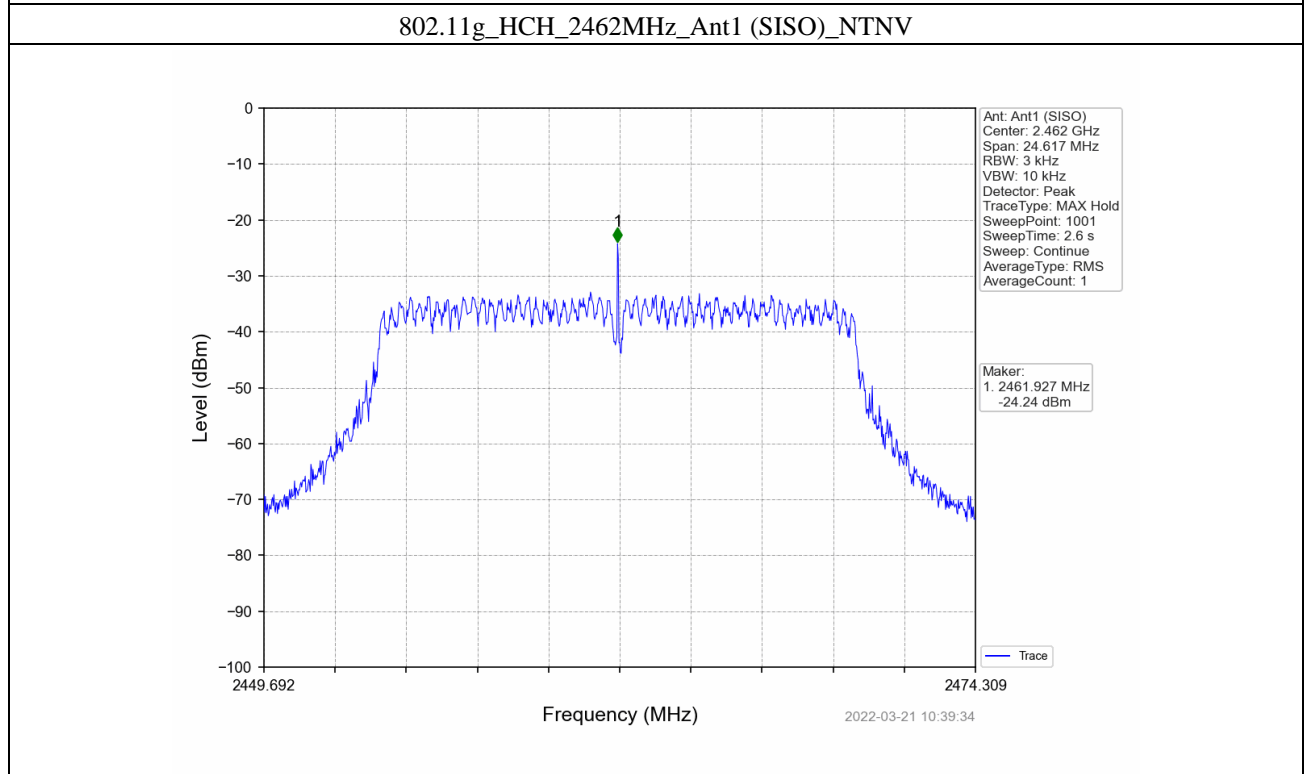
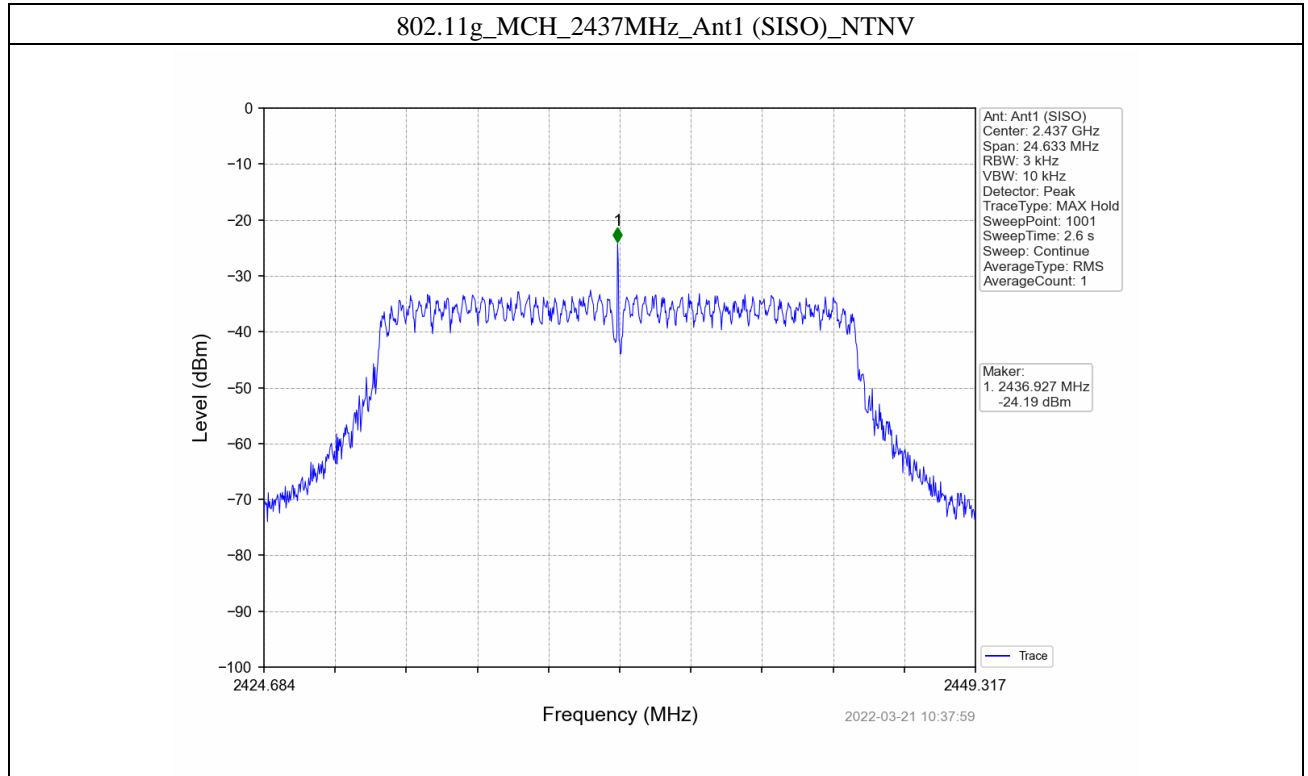
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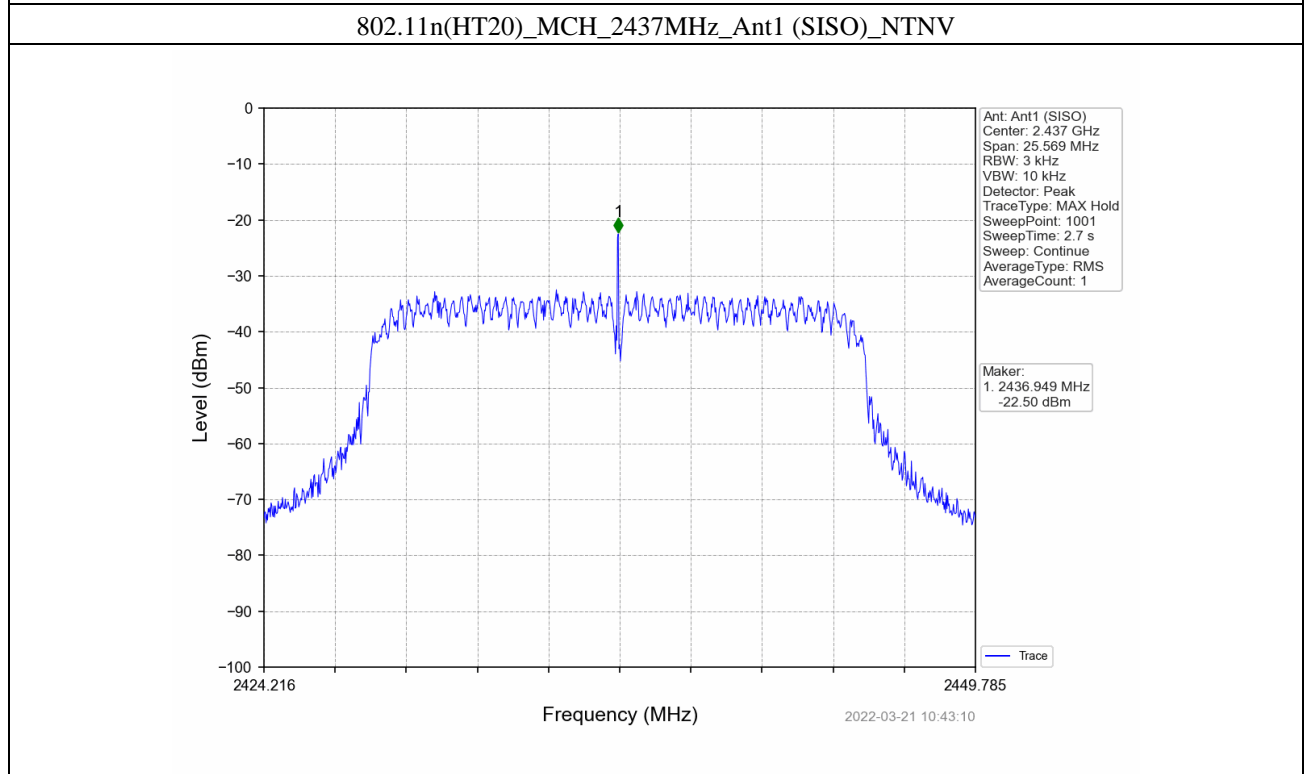
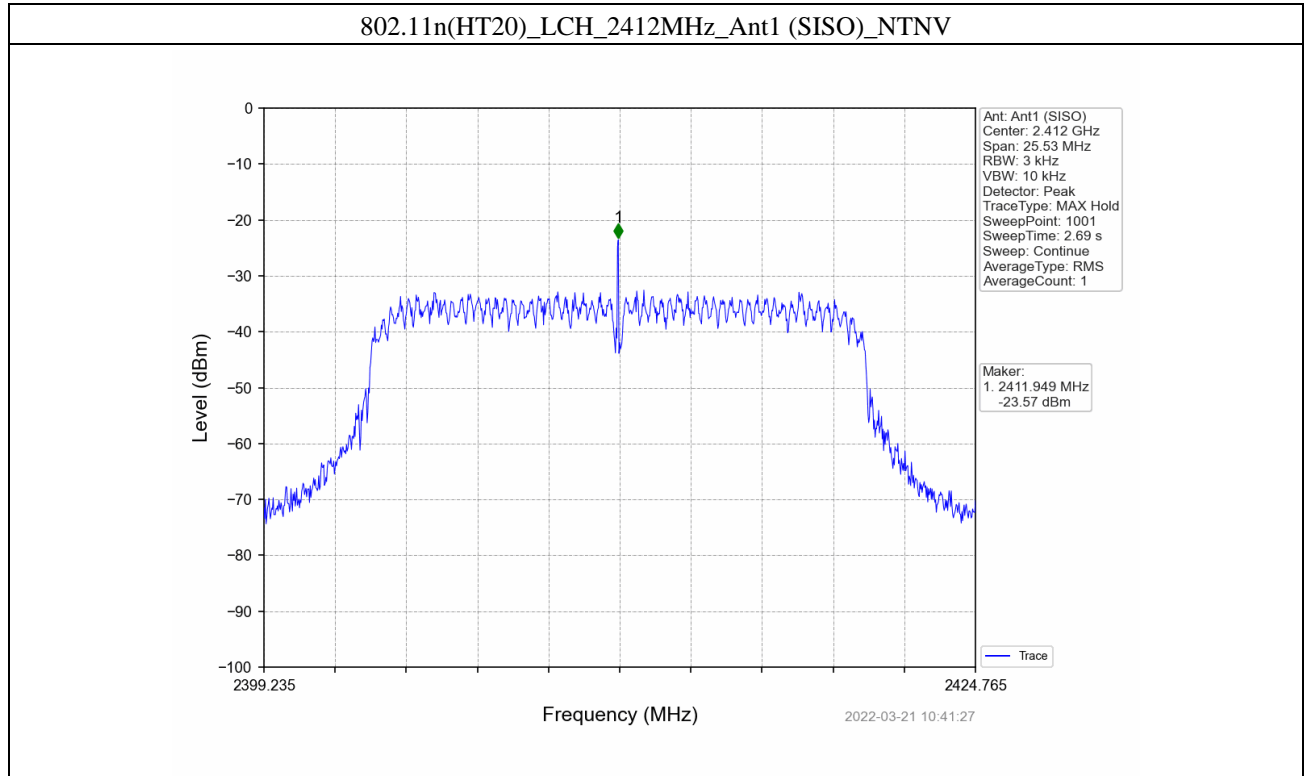
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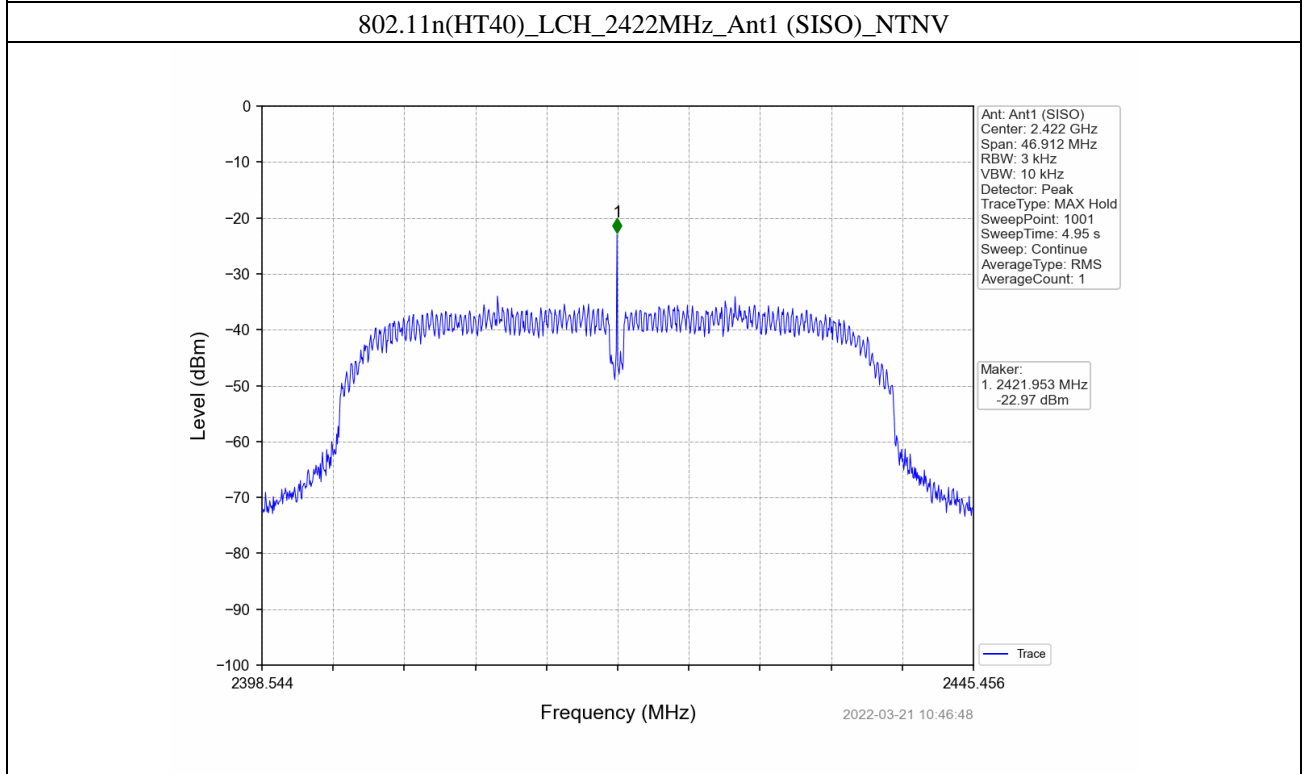
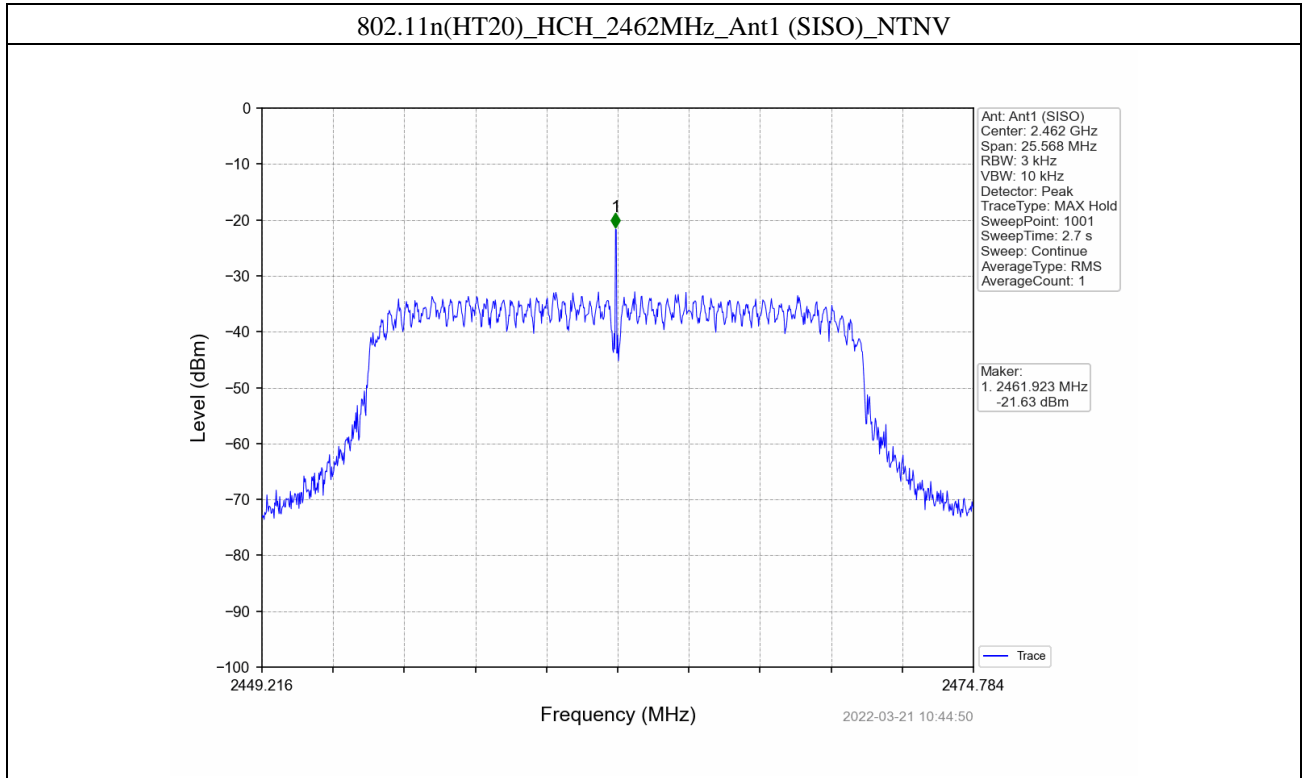
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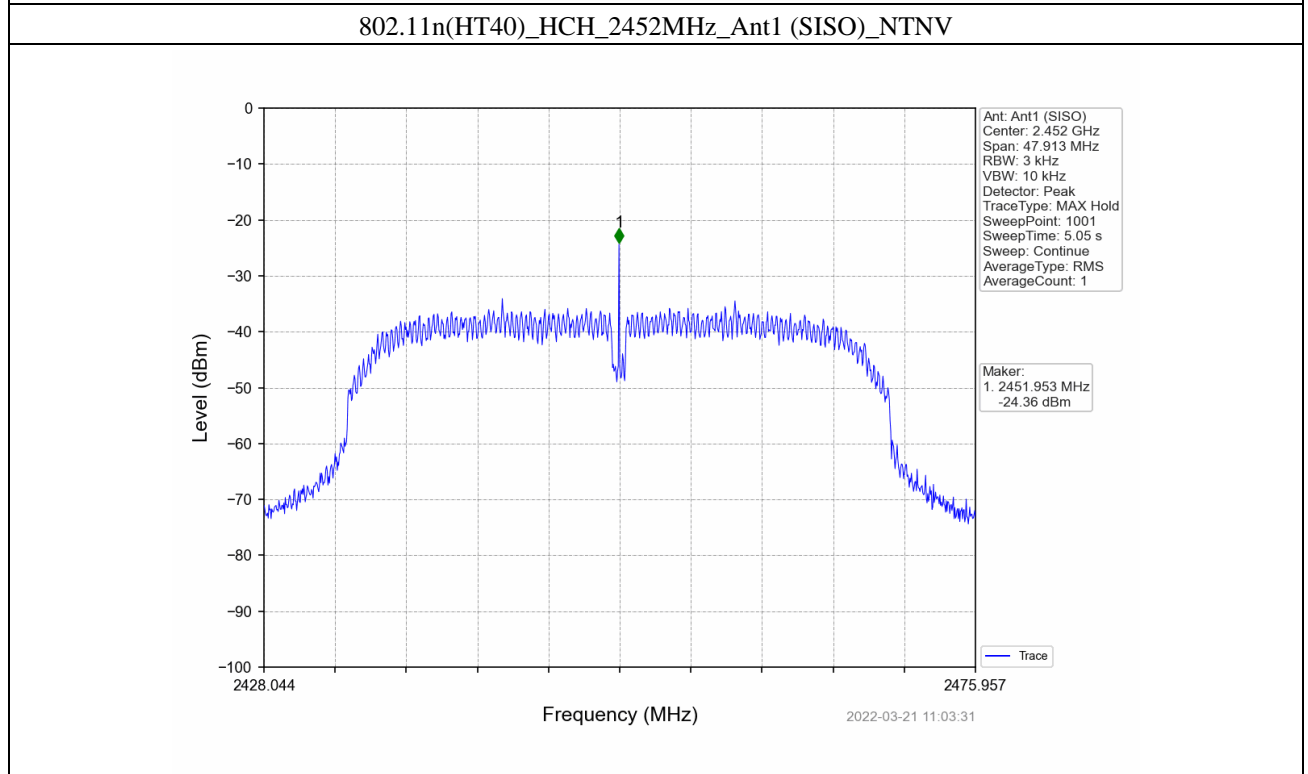
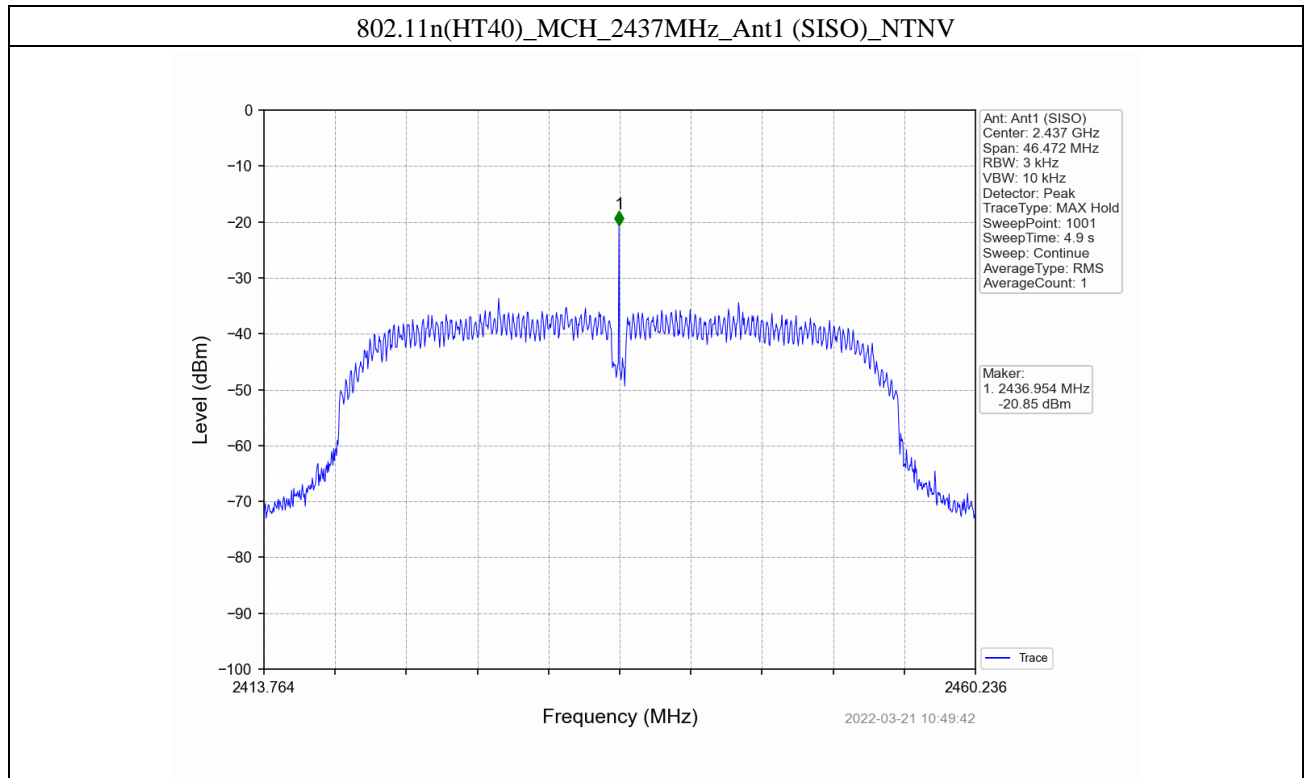
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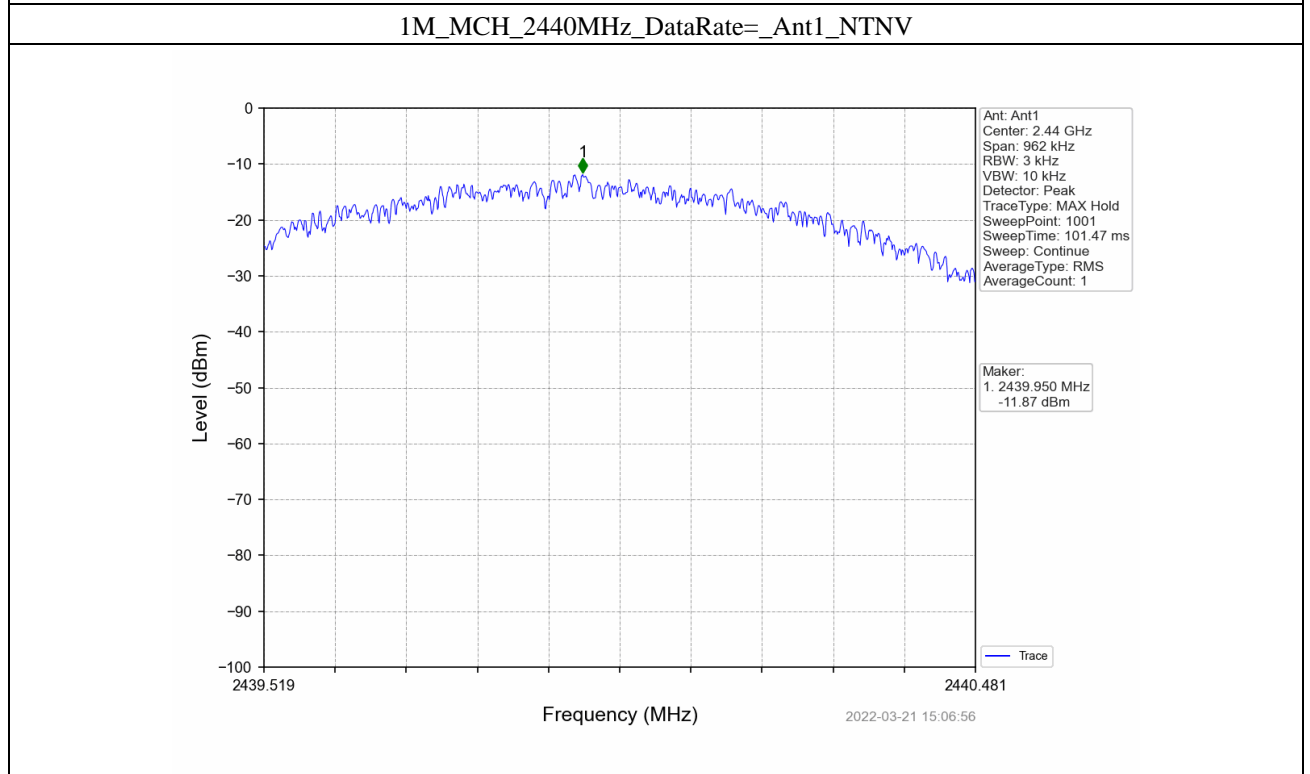
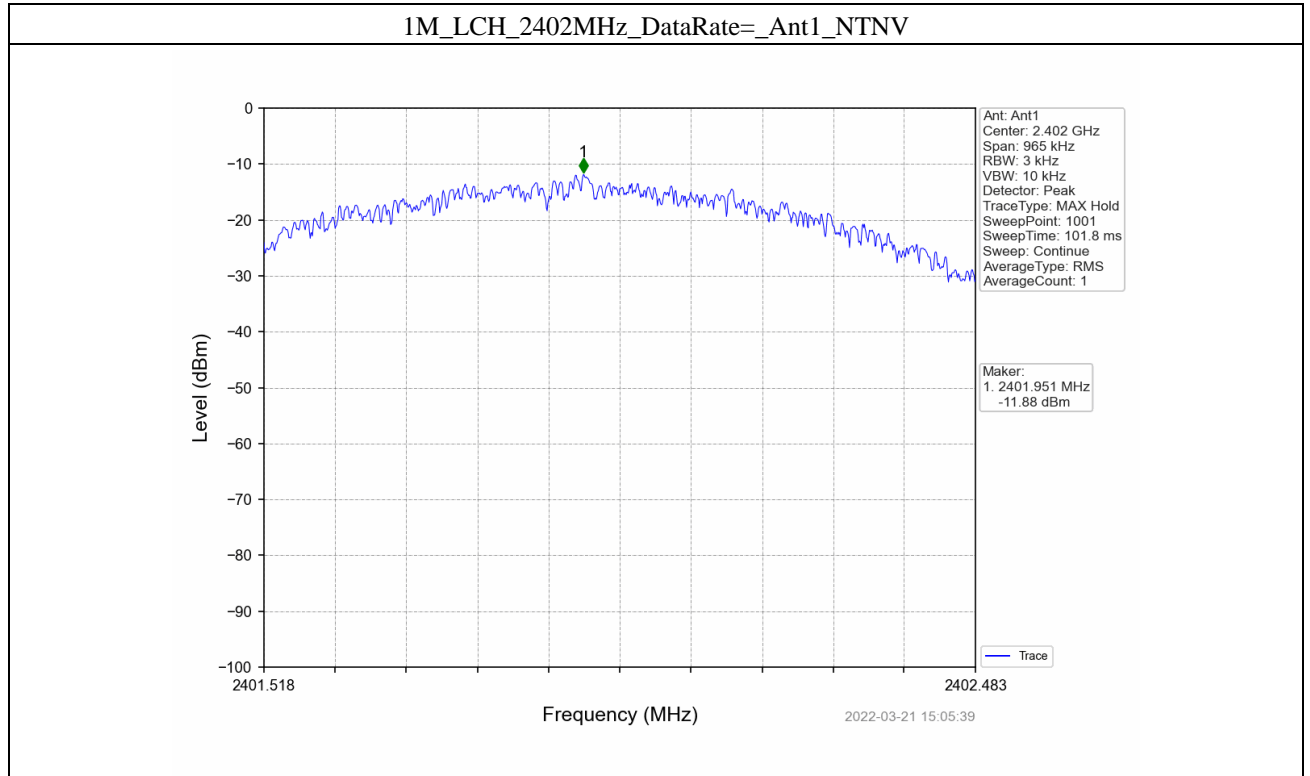
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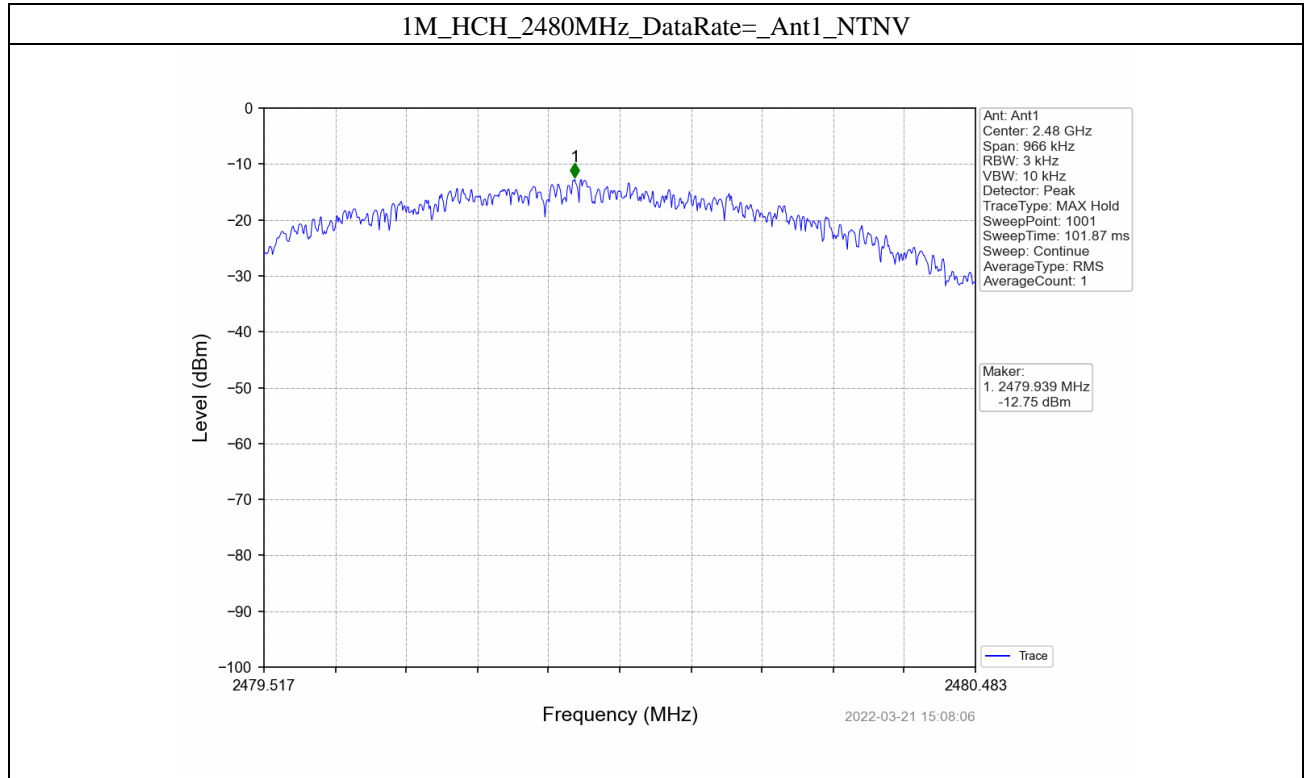
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4. Unwanted Emissions In Non-restricted Frequency Bands

4.1 Ref

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	-0.85
		2437	1	-1.51
		2462	1	-1.81
802.11g	SISO	2412	1	-18.03
		2437	1	-18.12
		2462	1	-18.21
802.11n (HT20)	SISO	2412	1	-17.76
		2437	1	-17.56
		2462	1	-18.01
802.11n (HT40)	SISO	2422	1	-21.17
		2437	1	-20.31
		2452	1	-20.95
1M	SISO	2402	1	3.10
		2440	1	3.17
		2480	1	2.55

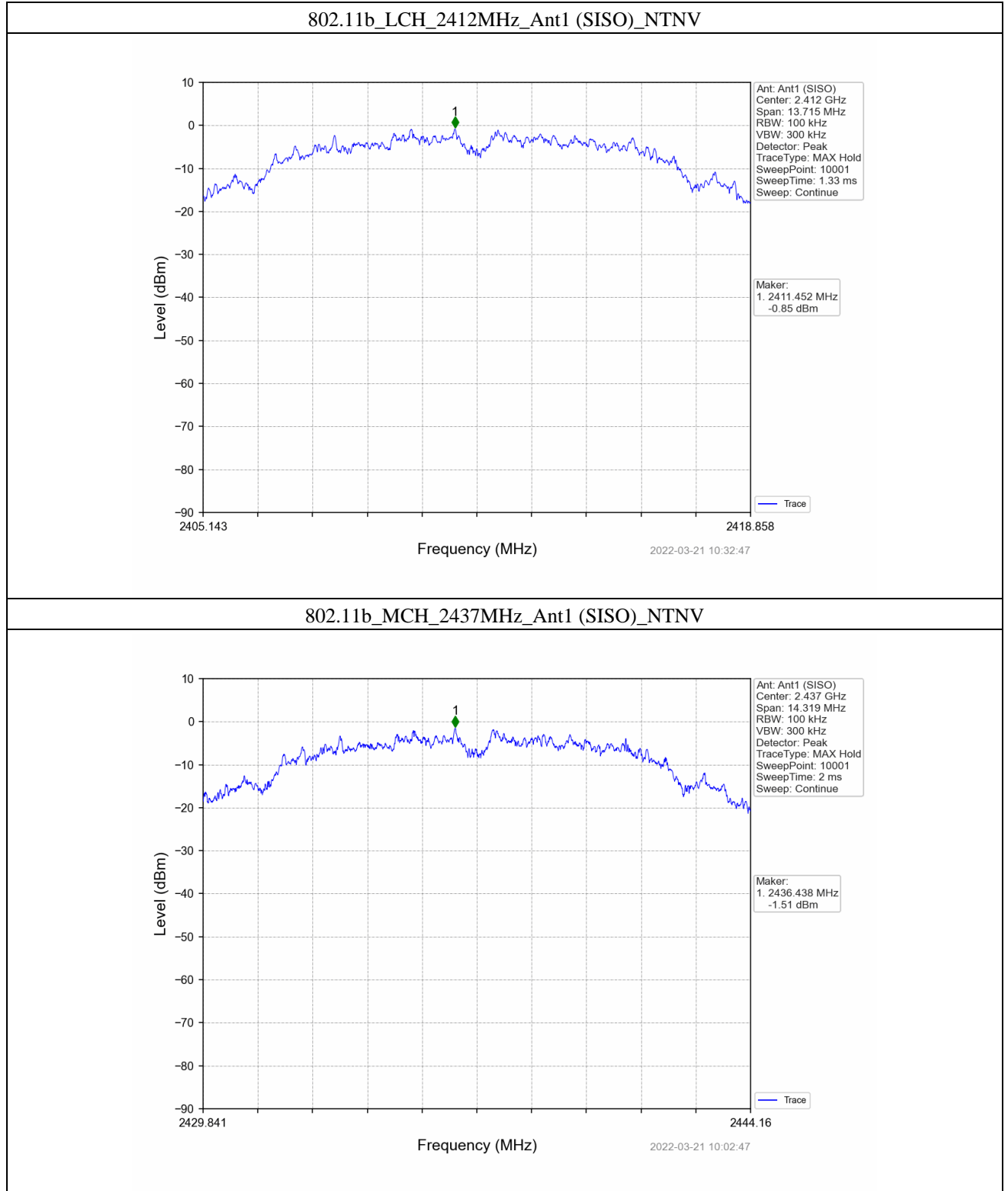
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

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.



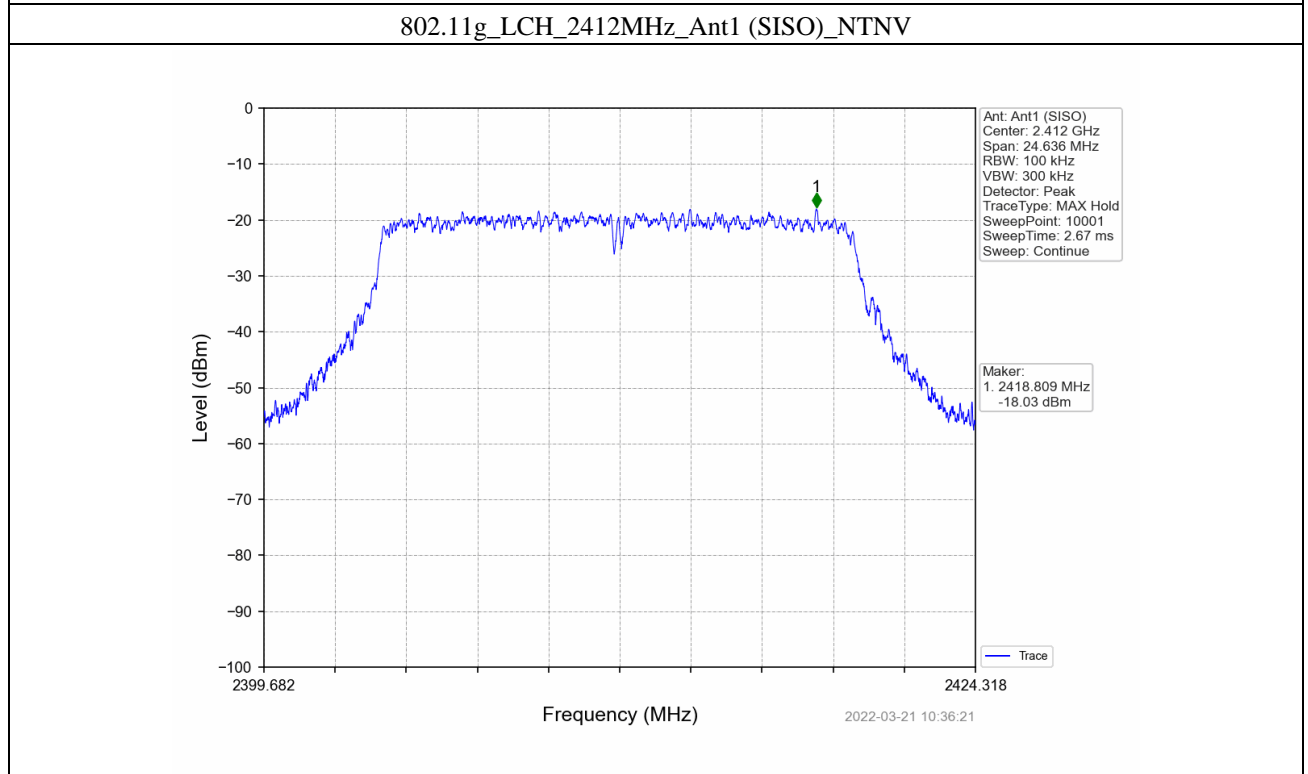
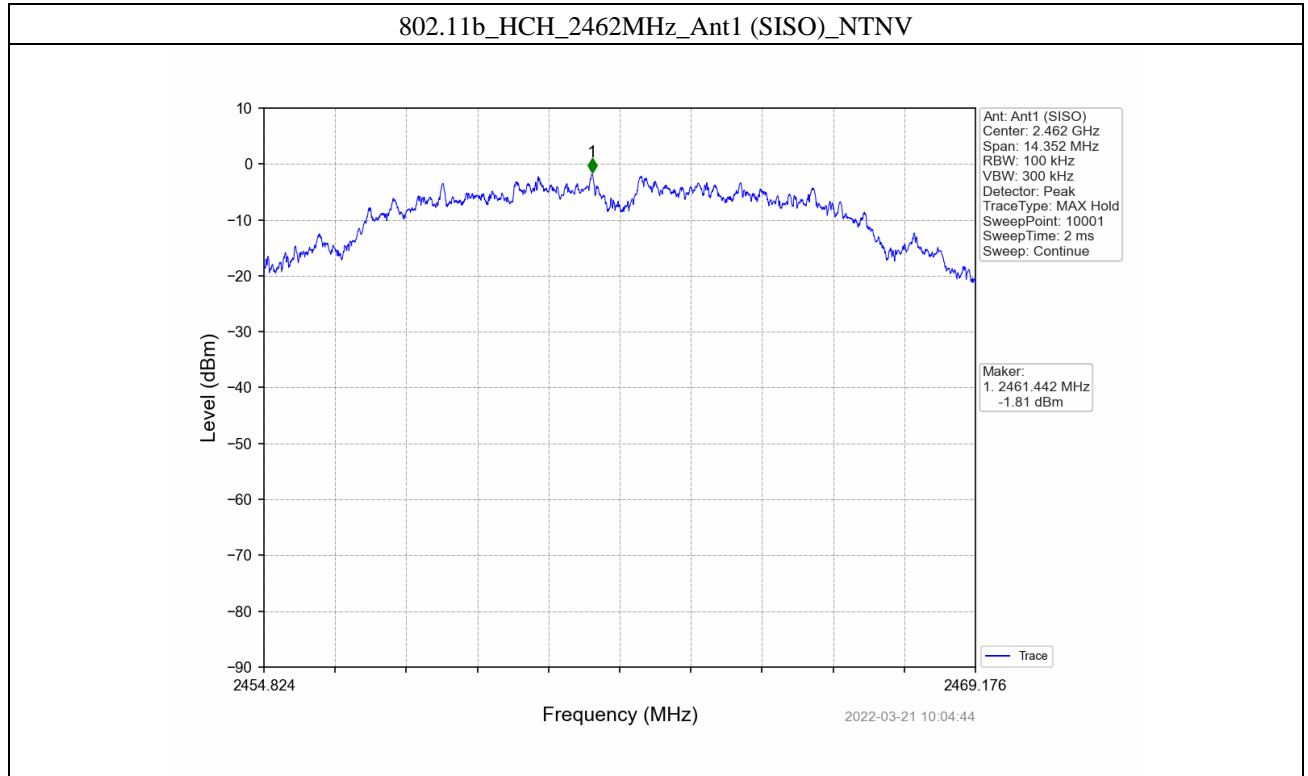
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4.1.2 Test Graph



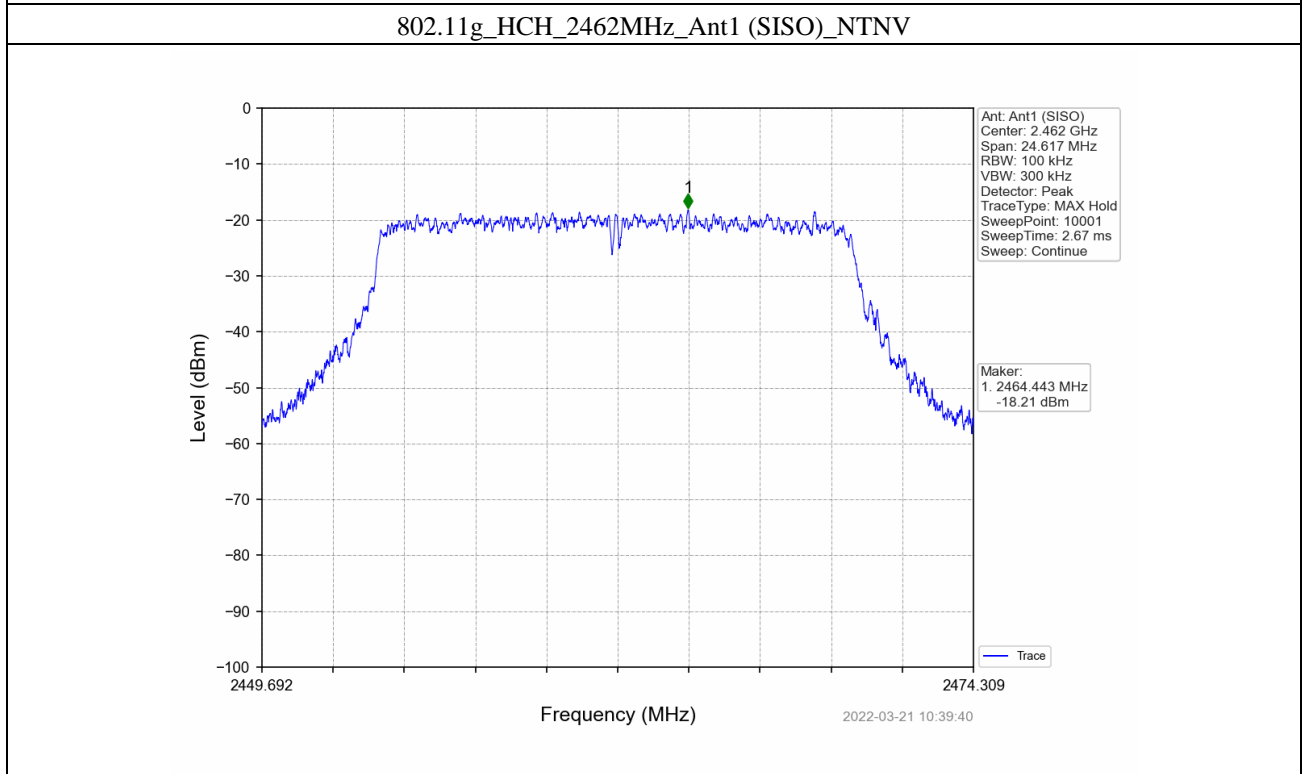
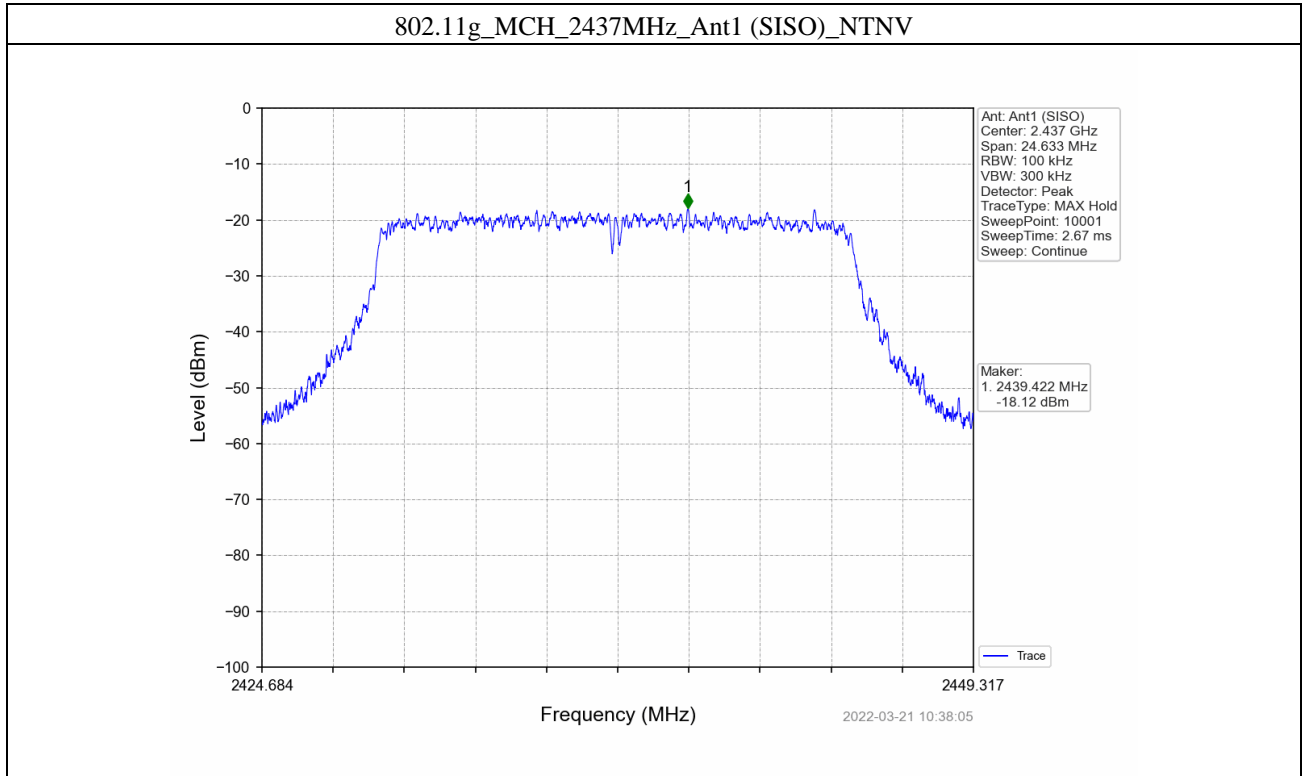
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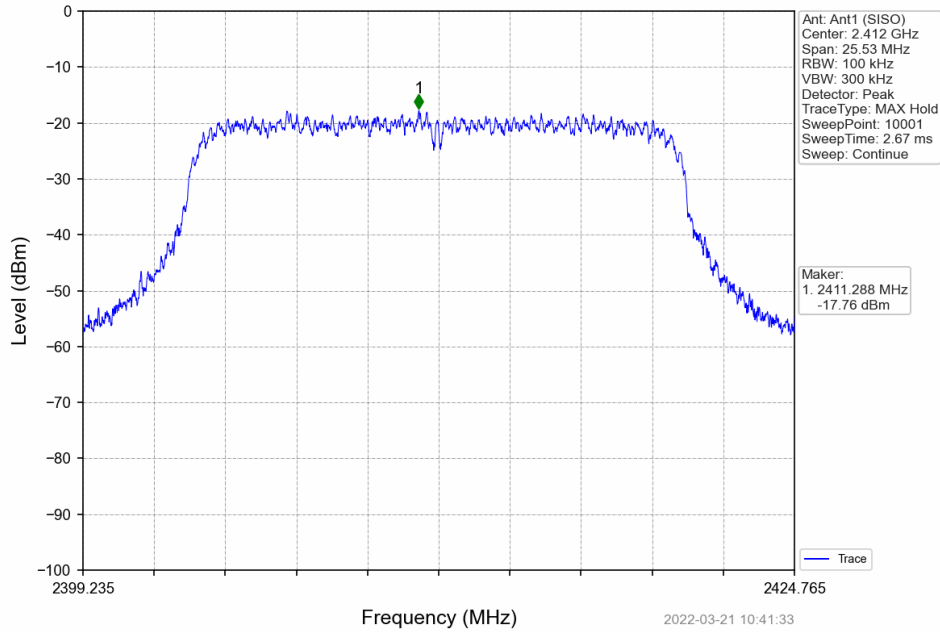
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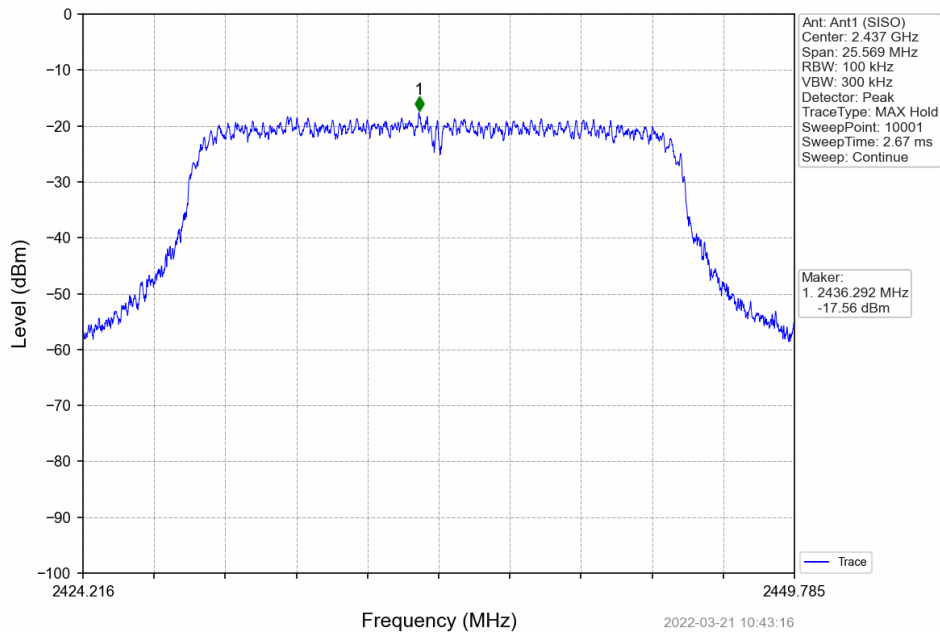
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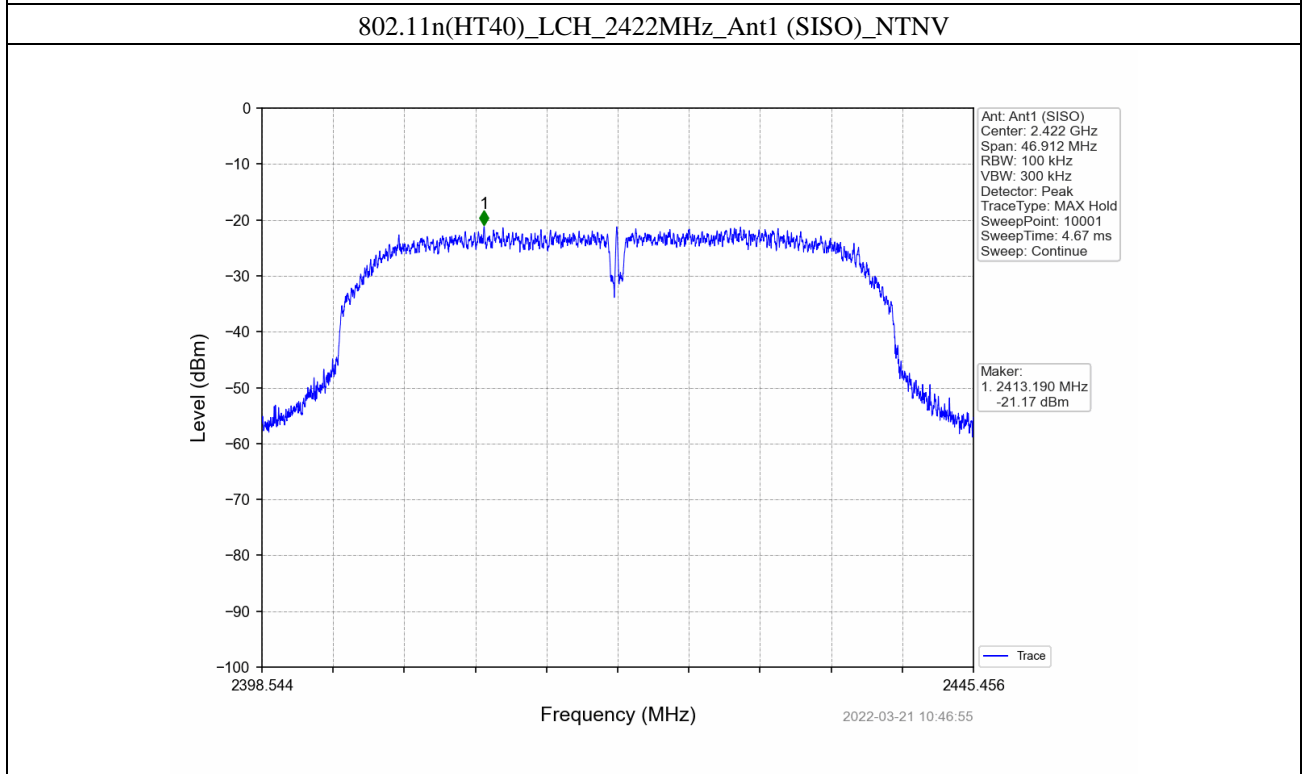
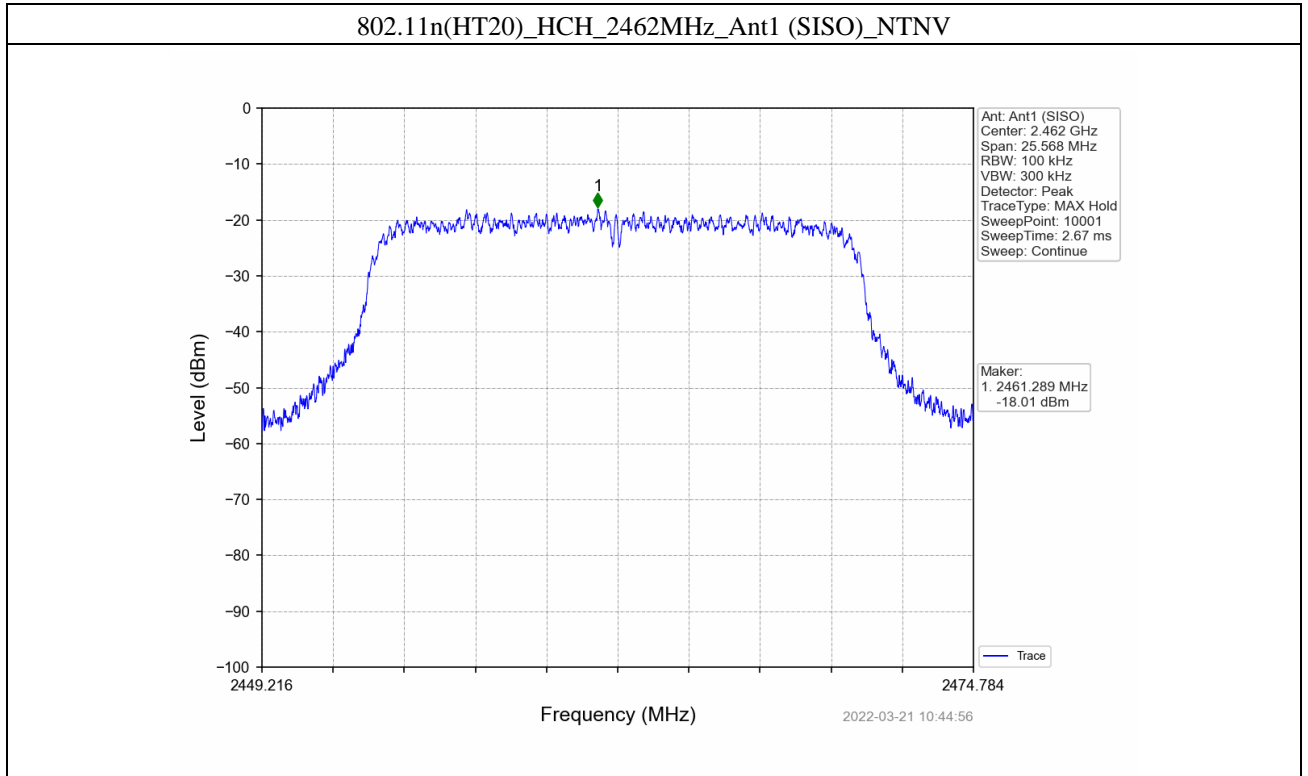
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

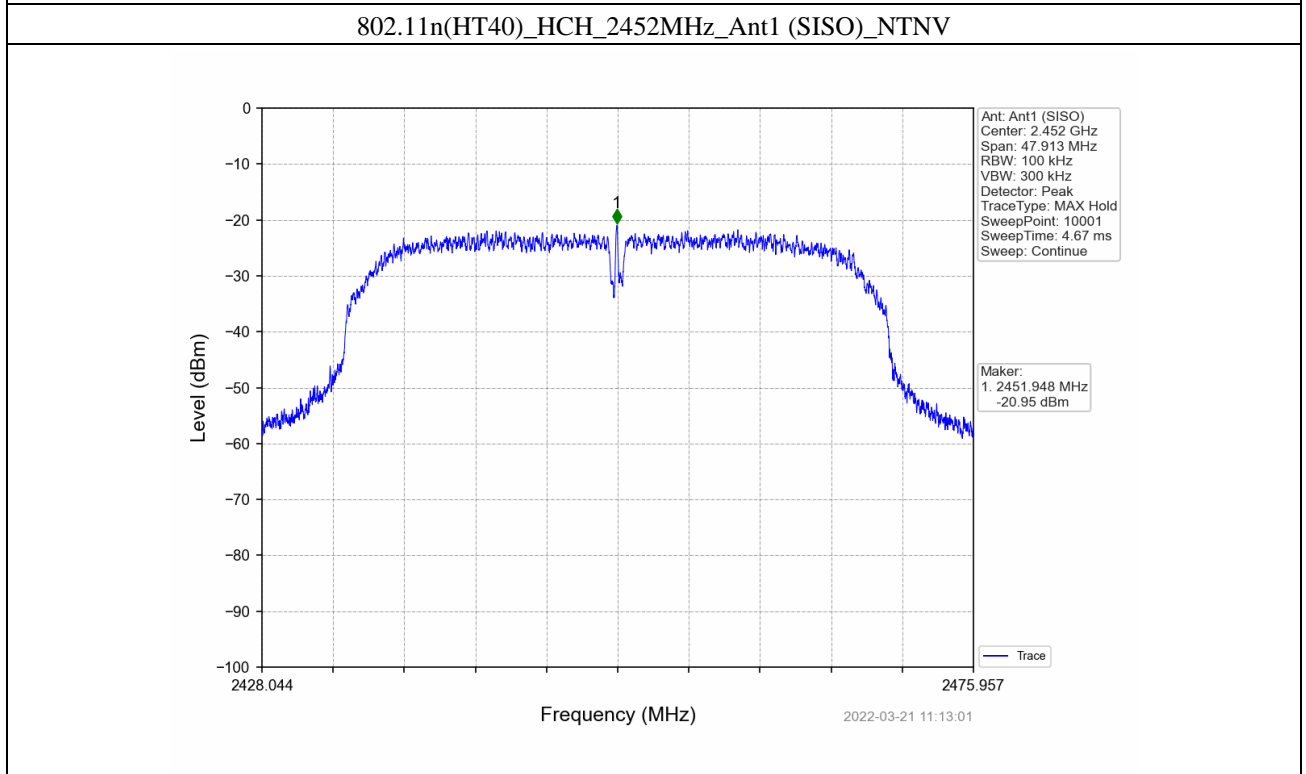
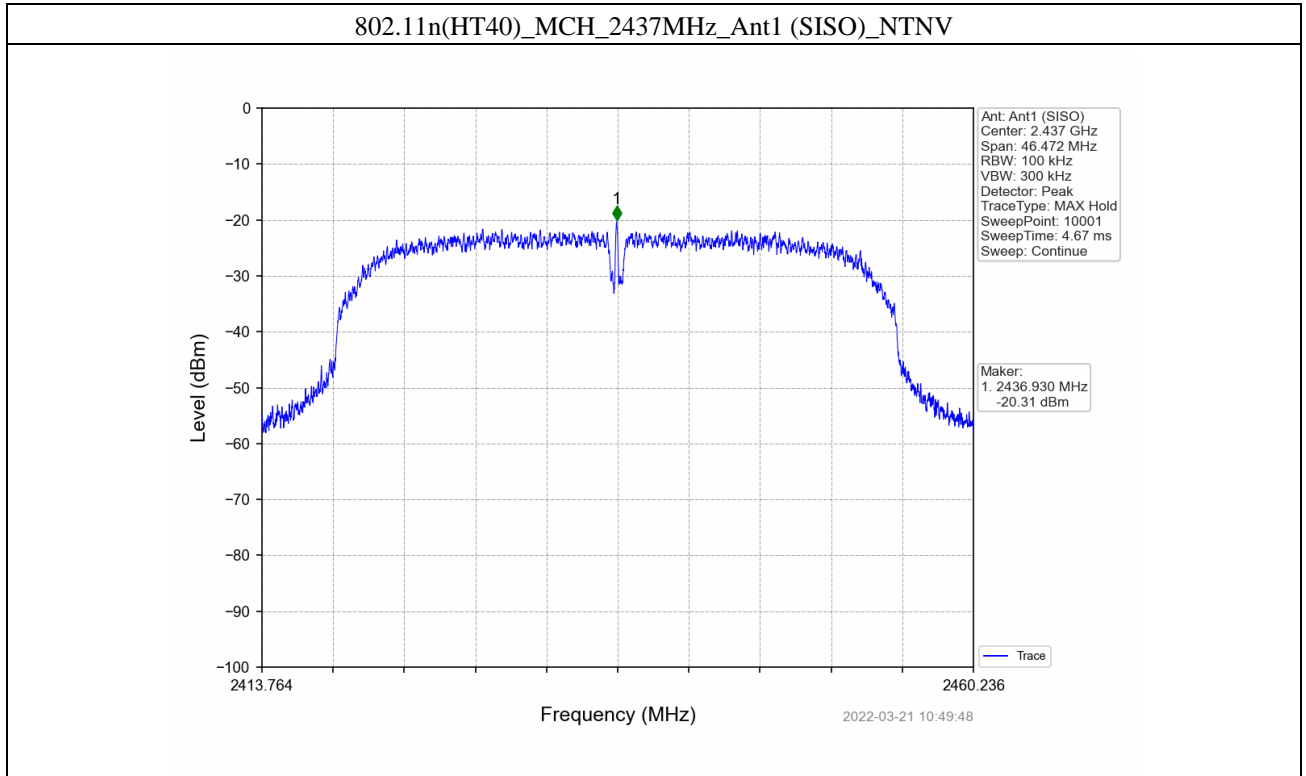


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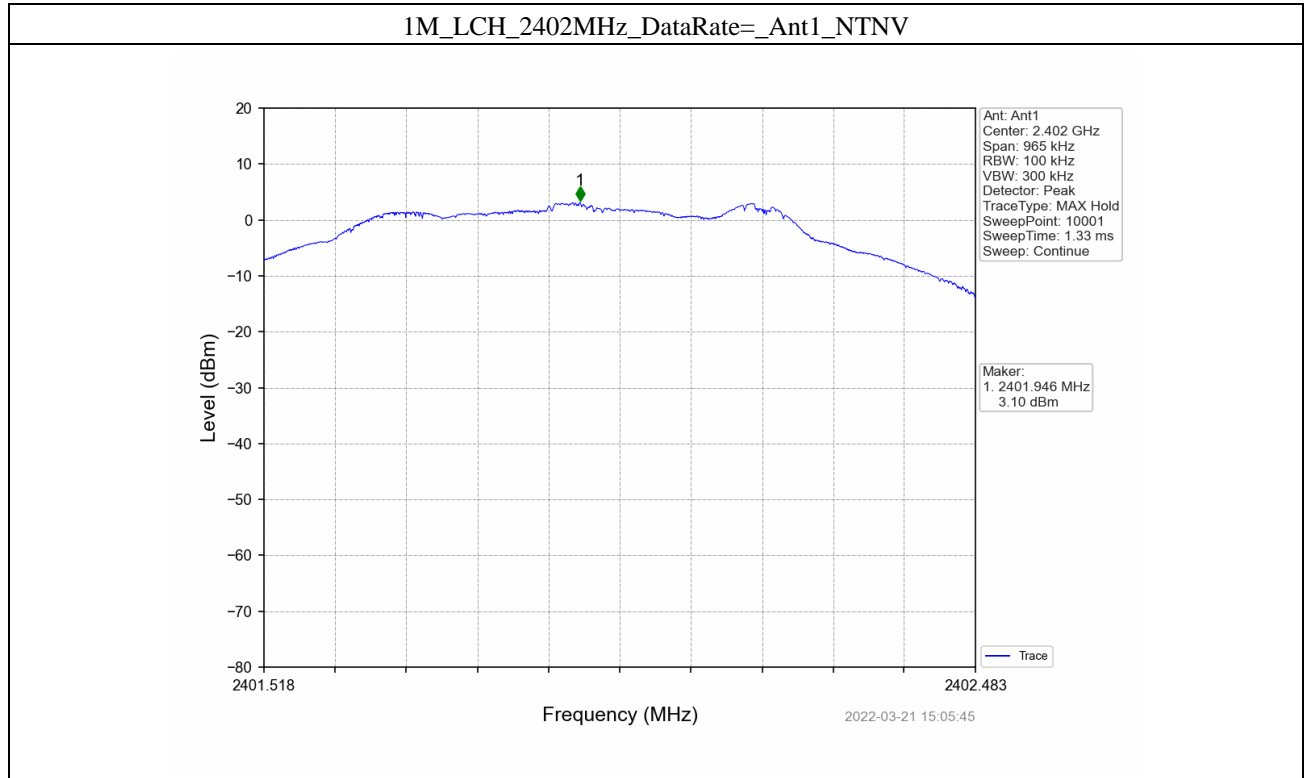
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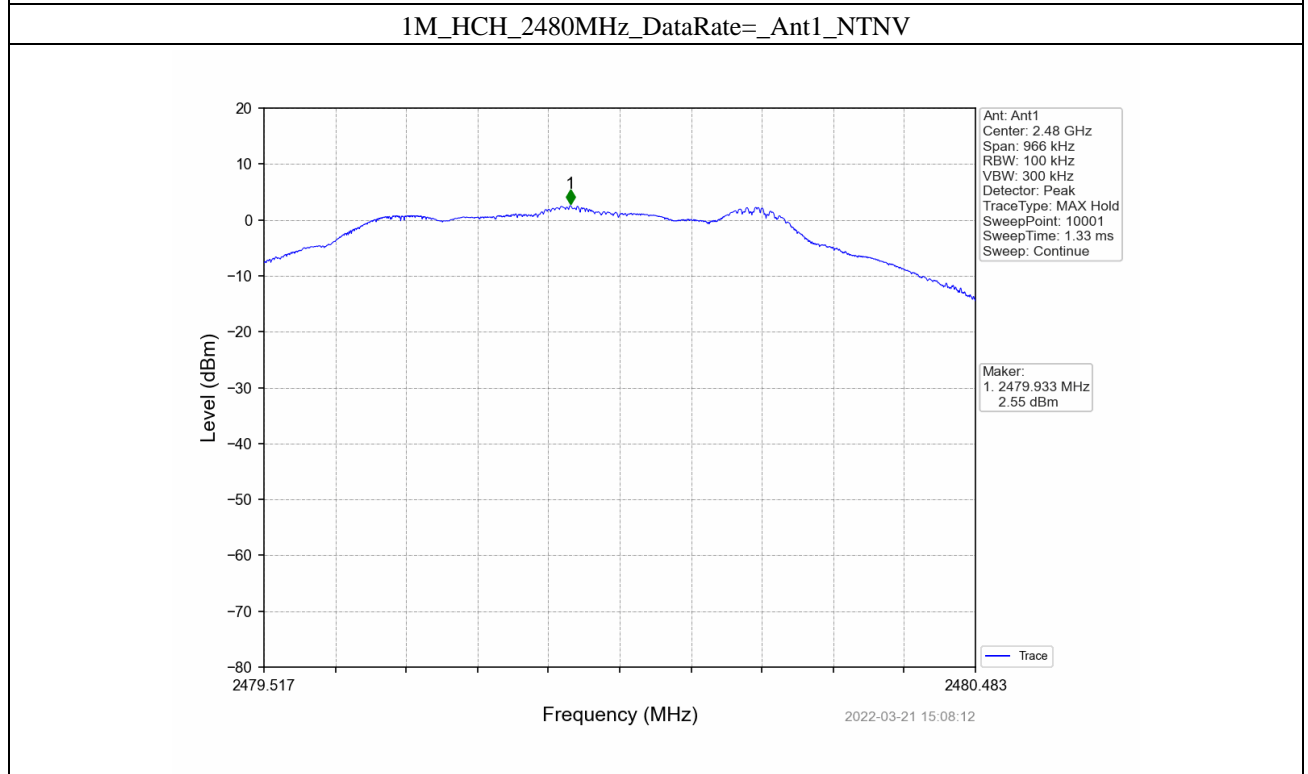
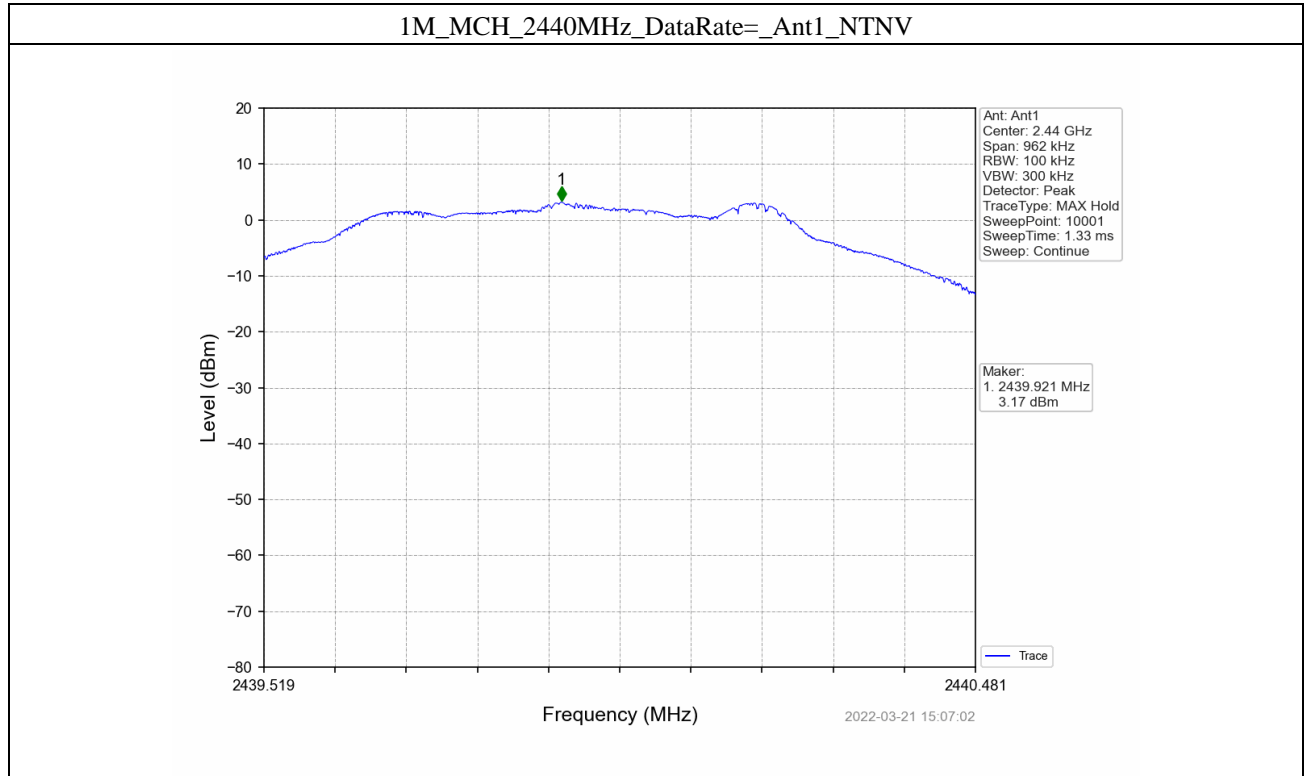
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4.2 CSE

4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-0.85	-20.85	Pass
		2437	1	-0.85	-20.85	Pass
		2462	1	-0.85	-20.85	Pass
802.11g	SISO	2412	1	-18.03	-38.03	Pass
		2437	1	-18.03	-38.03	Pass
		2462	1	-18.03	-38.03	Pass
802.11n (HT20)	SISO	2412	1	-17.56	-37.56	Pass
		2437	1	-17.56	-37.56	Pass
		2462	1	-17.56	-37.56	Pass
802.11n (HT40)	SISO	2422	1	-20.31	-40.31	Pass
		2437	1	-20.31	-40.31	Pass
		2452	1	-20.31	-40.31	Pass
1M	SISO	2402	1	3.17	-16.83	Pass
		2440	1	3.17	-16.83	Pass
		2480	1	3.17	-16.83	Pass

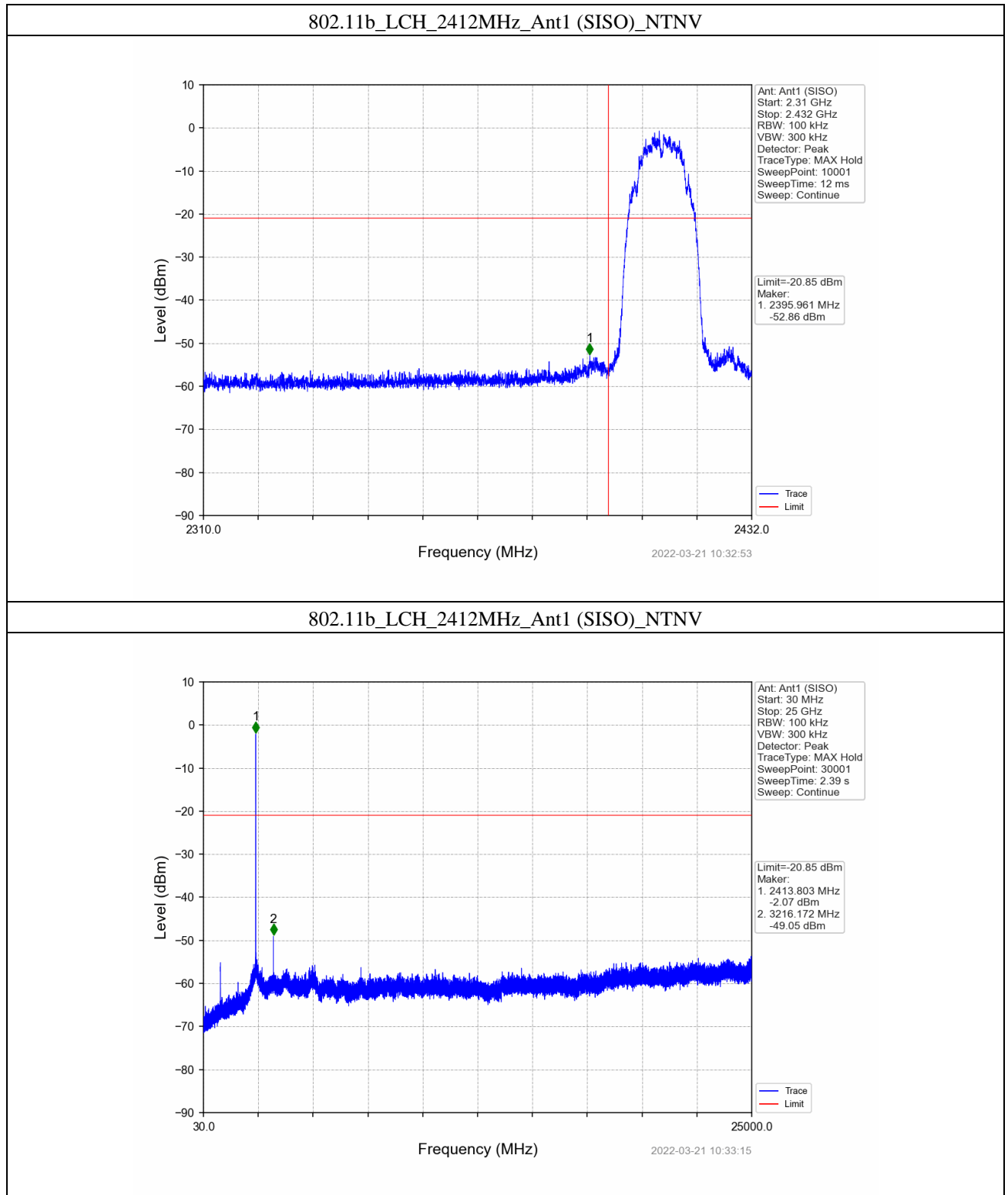
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

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.



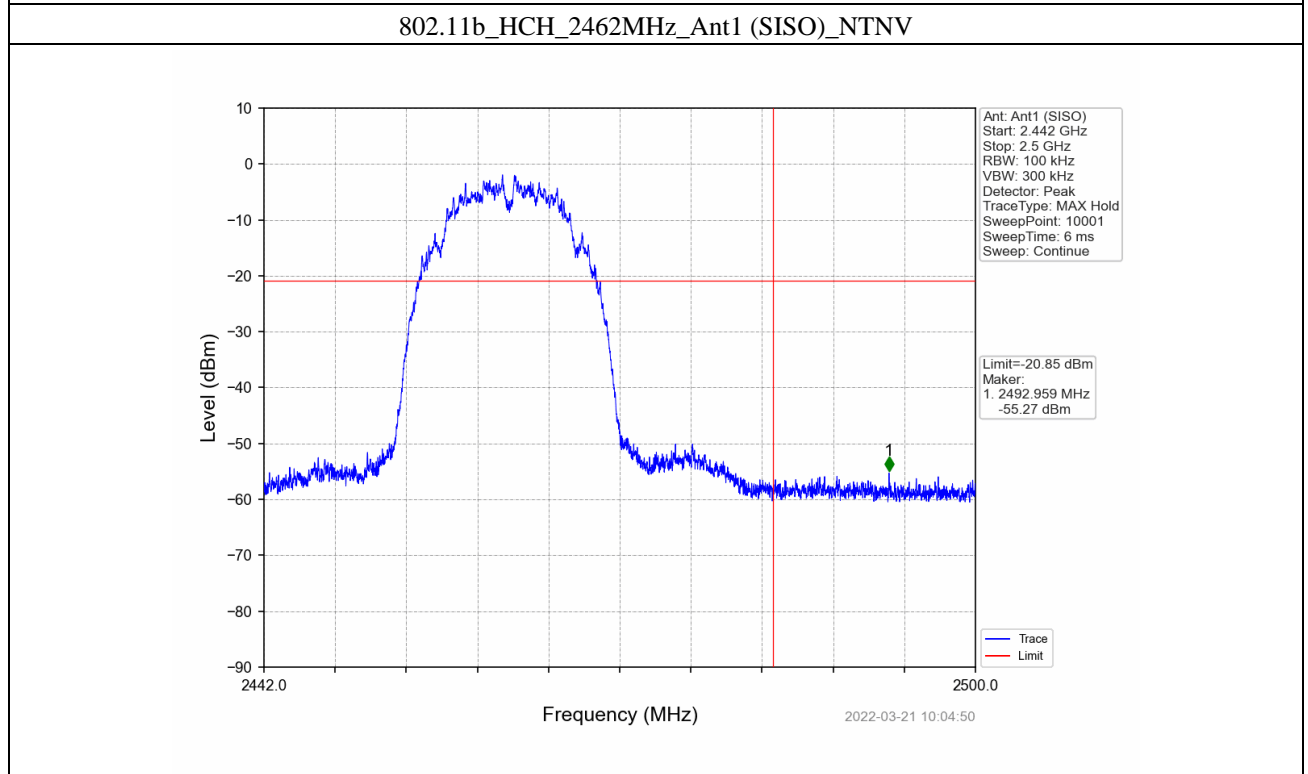
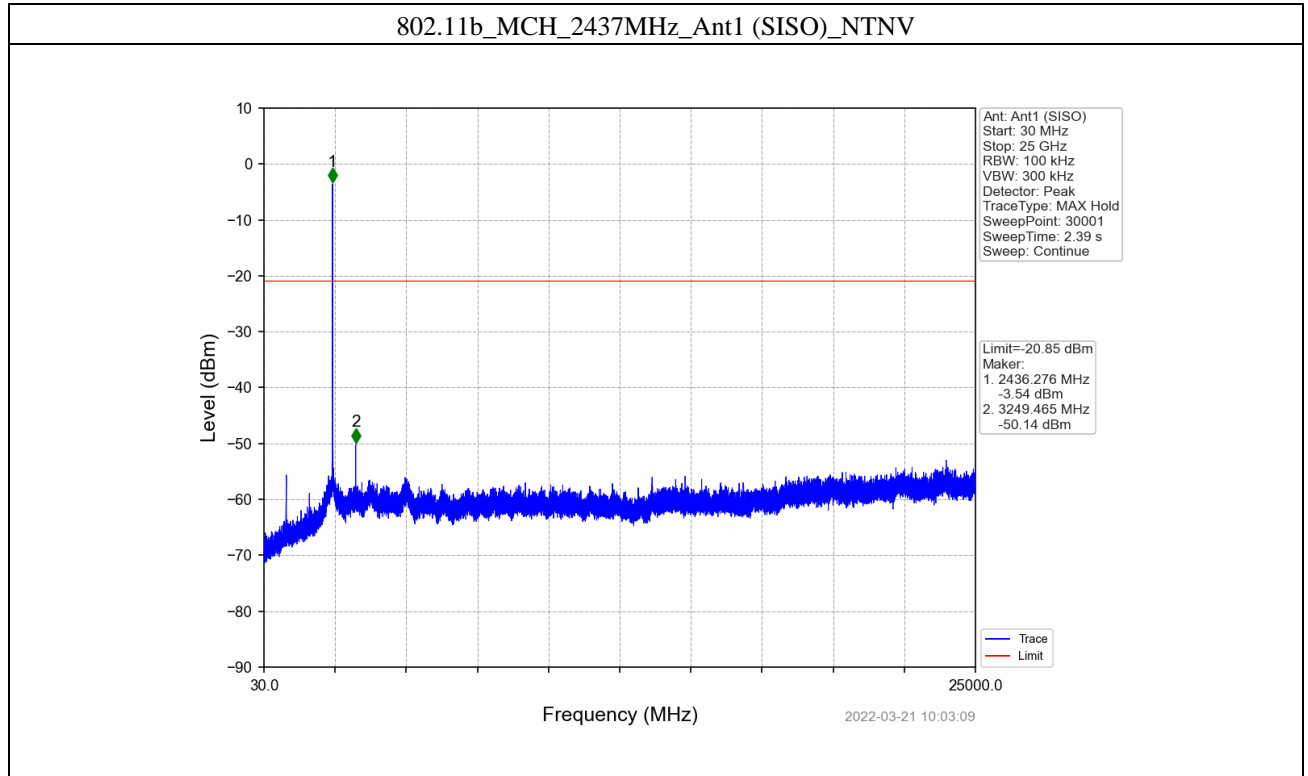
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5.2.2 Test Graph



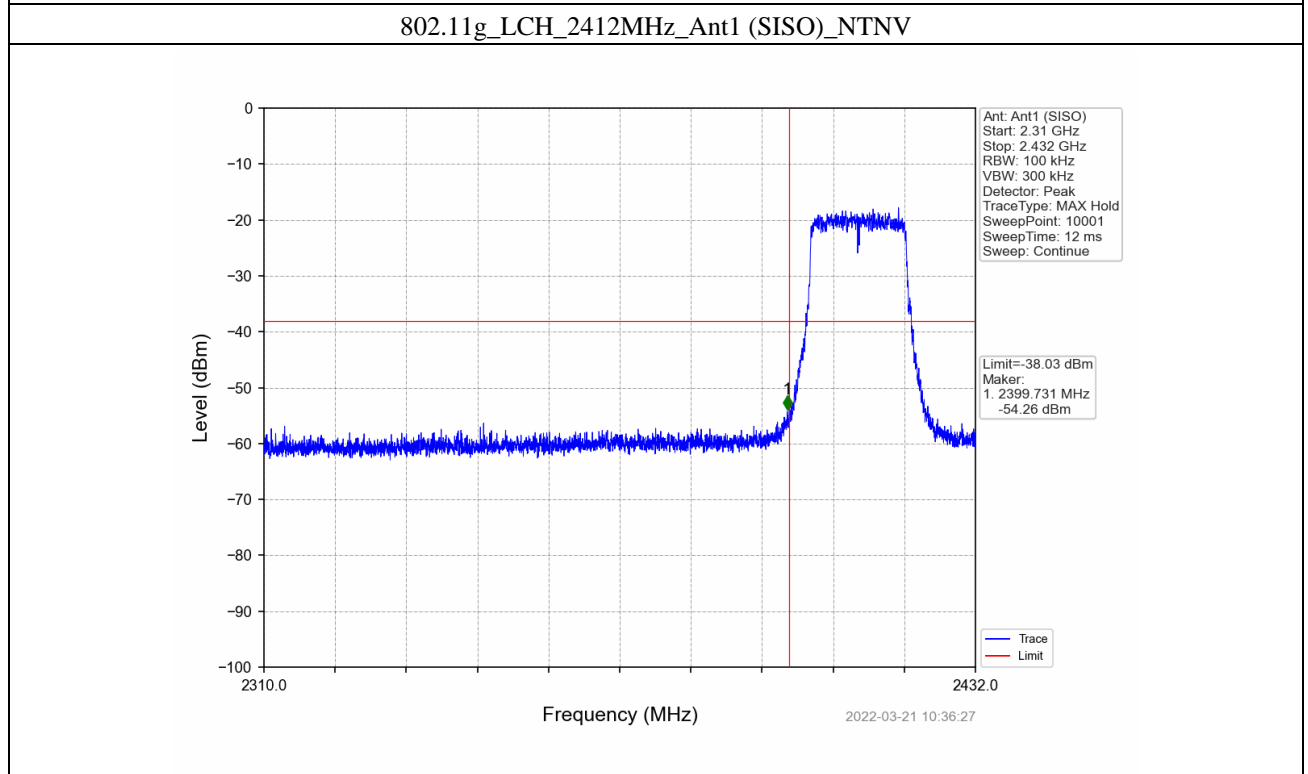
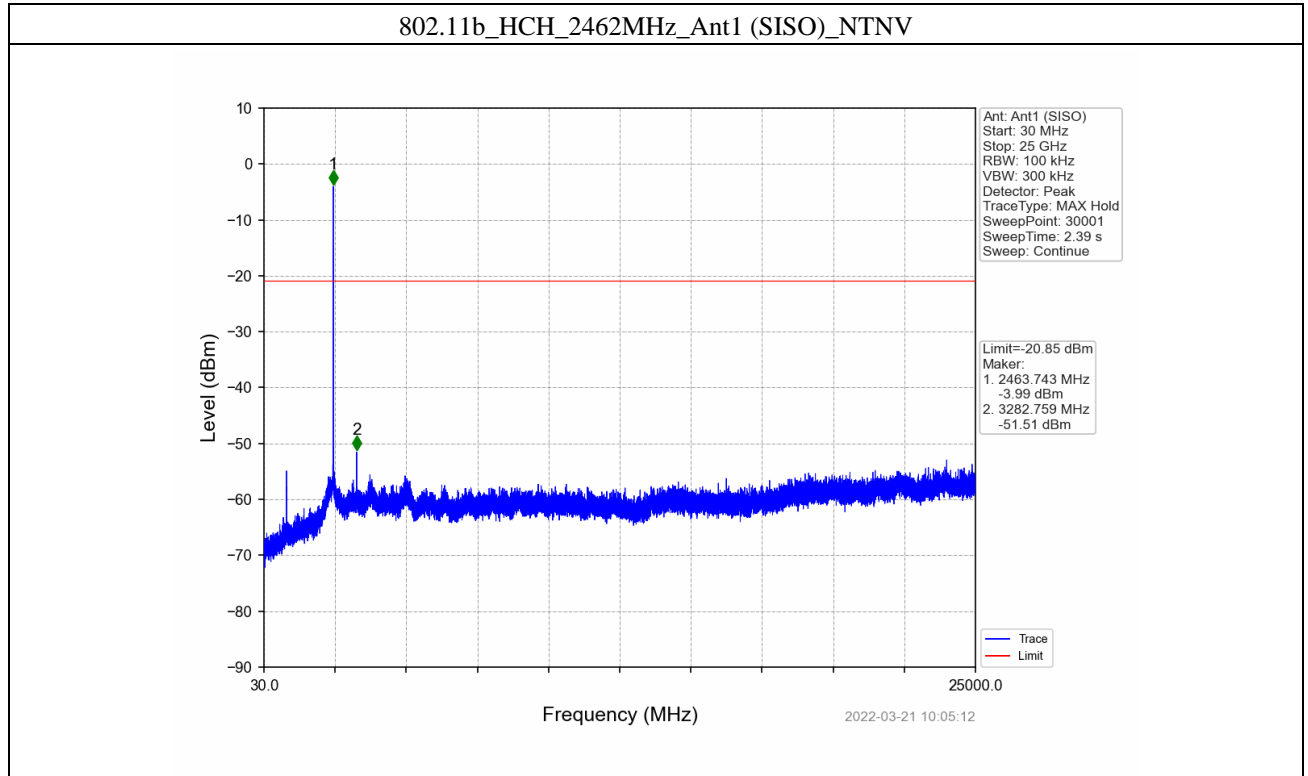
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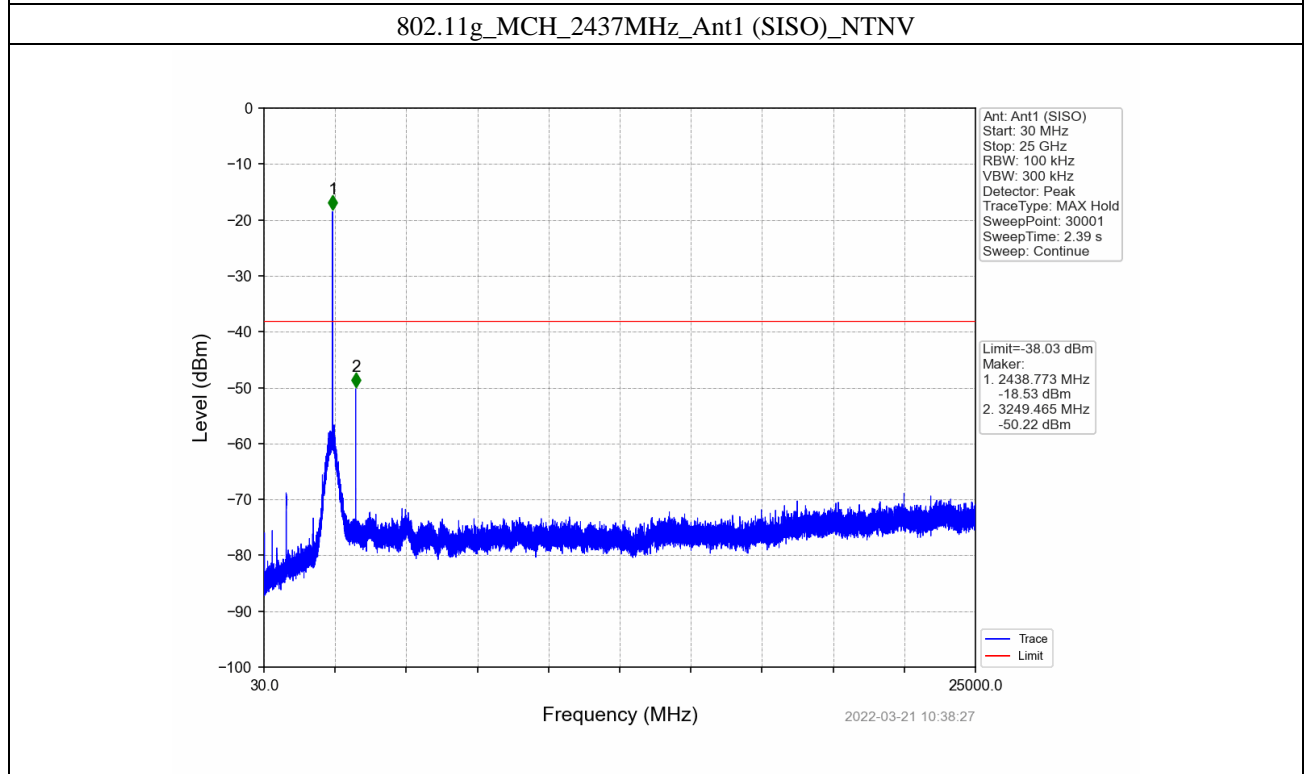
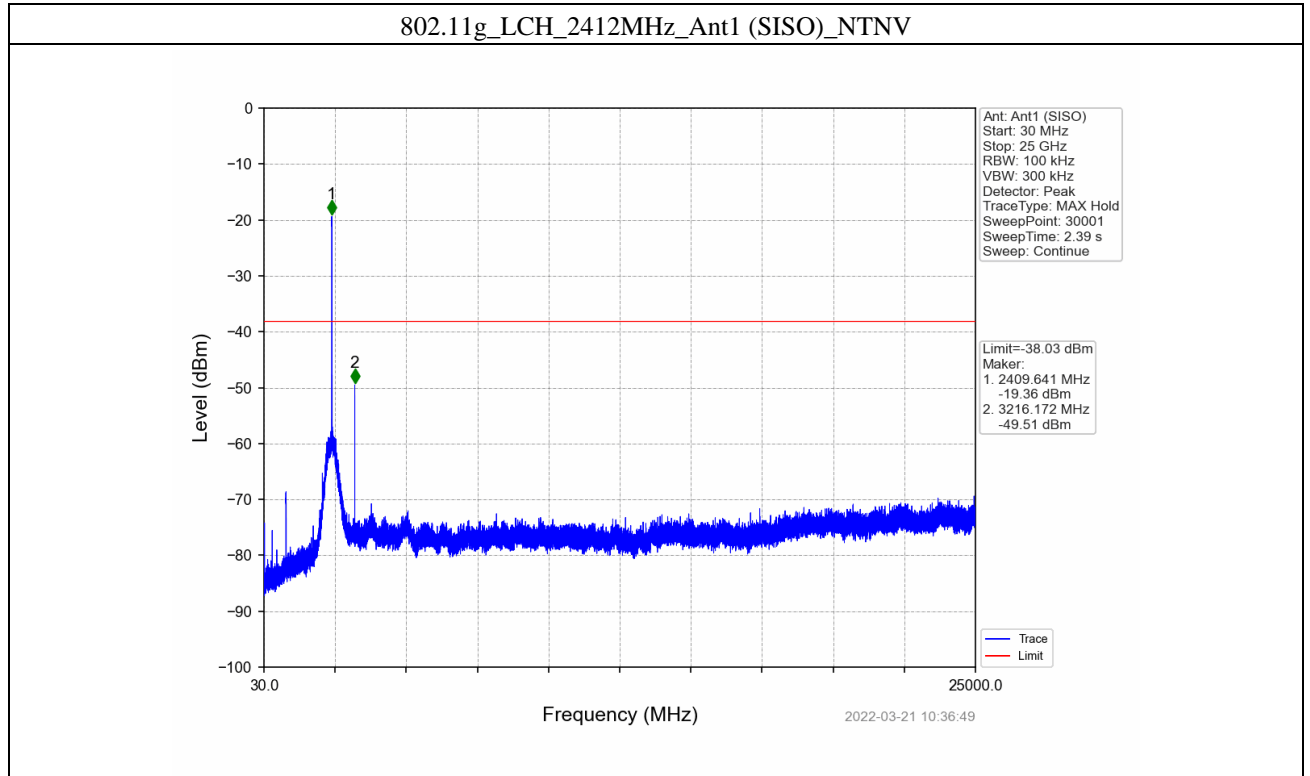
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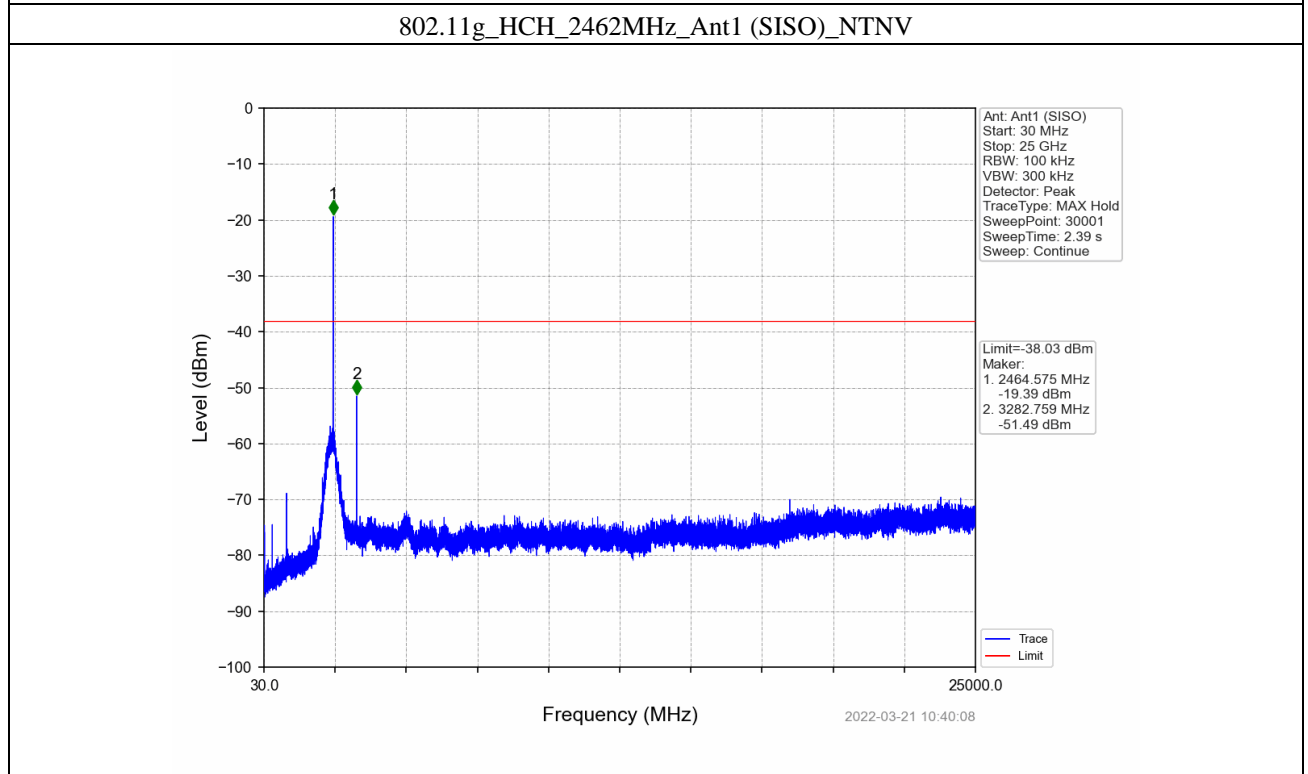
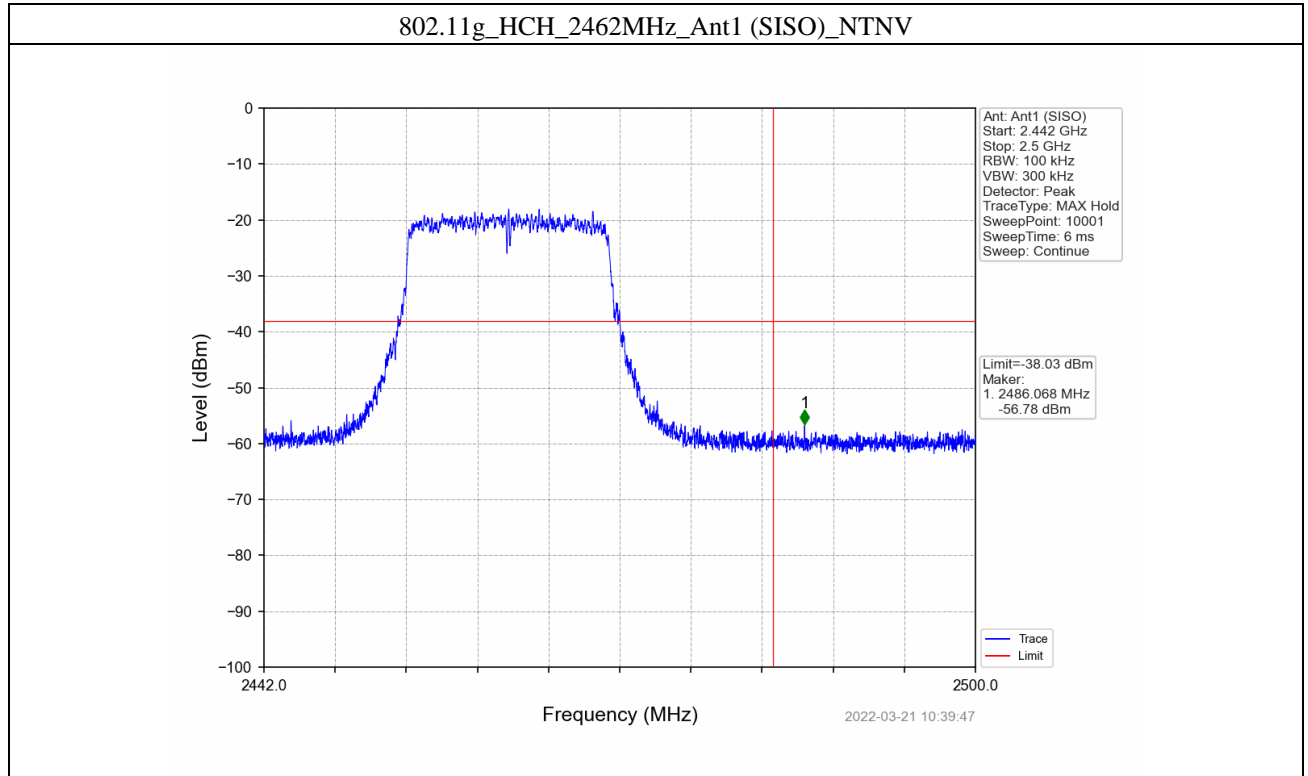
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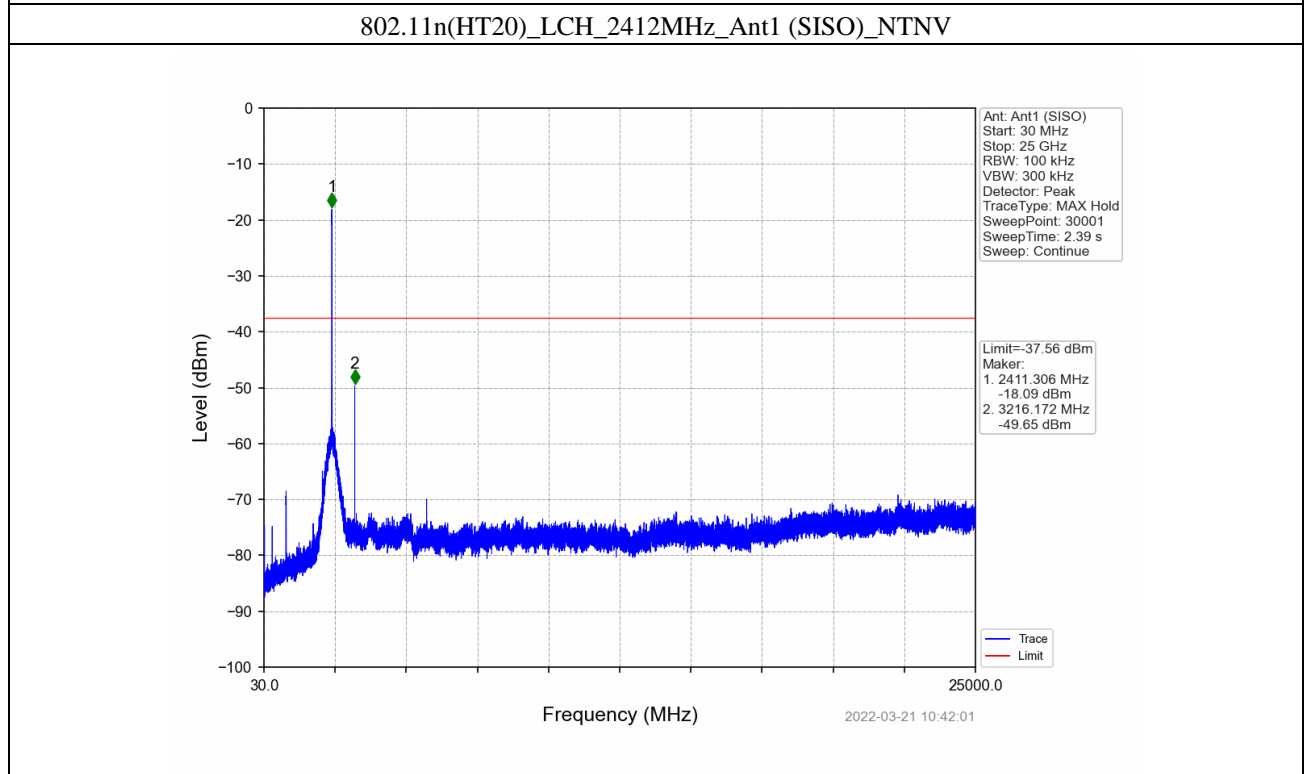
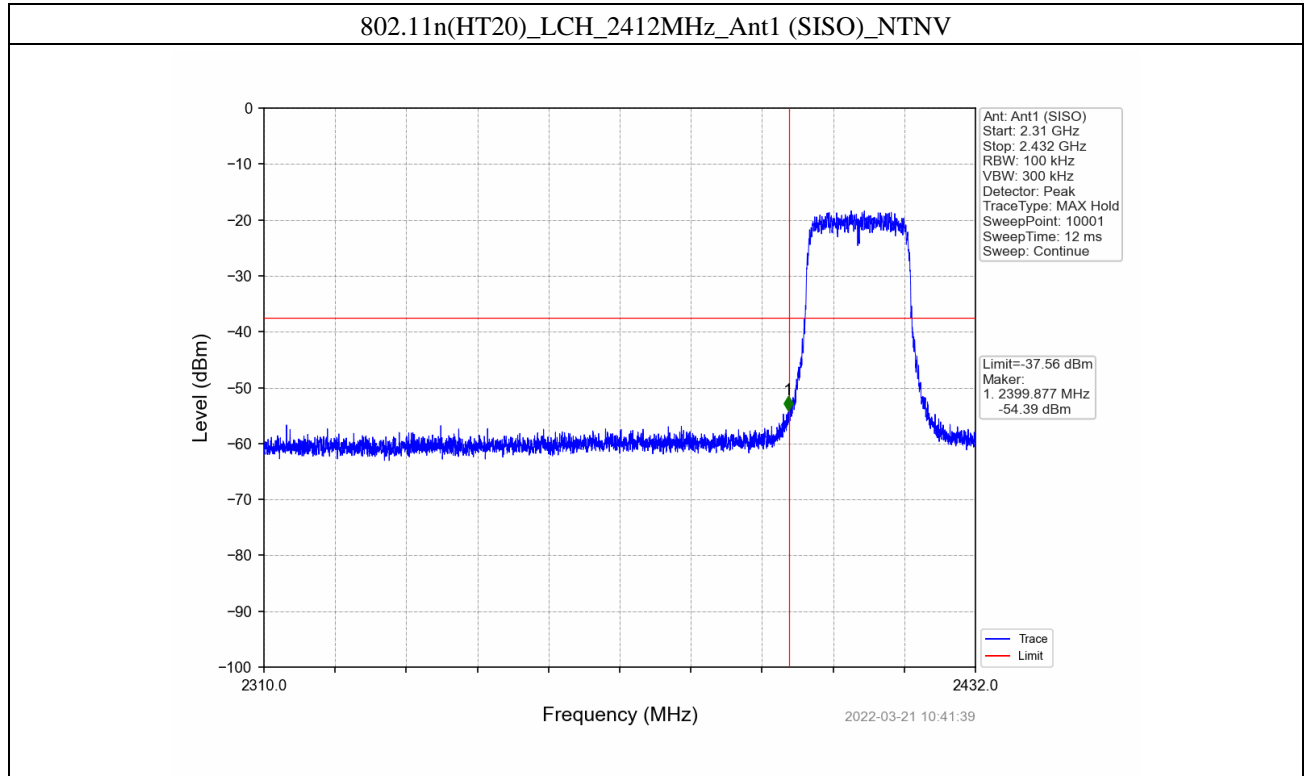


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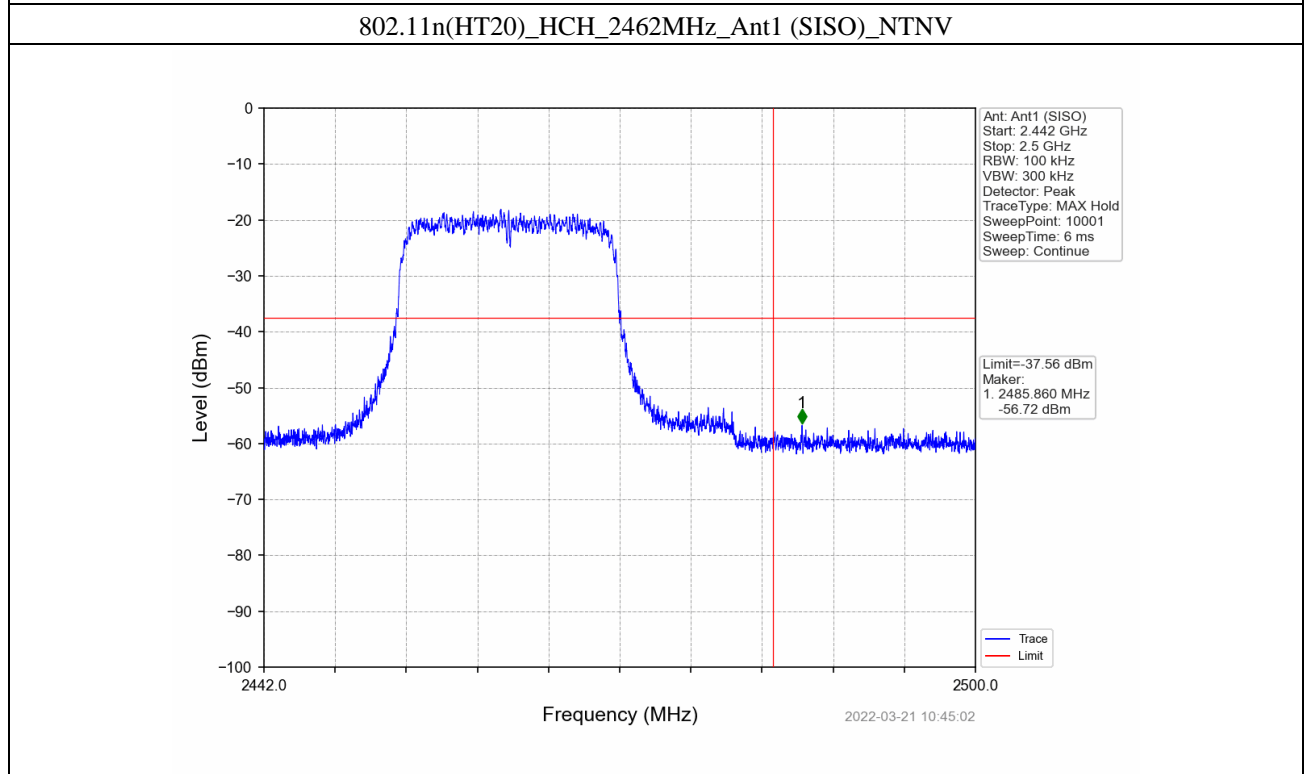
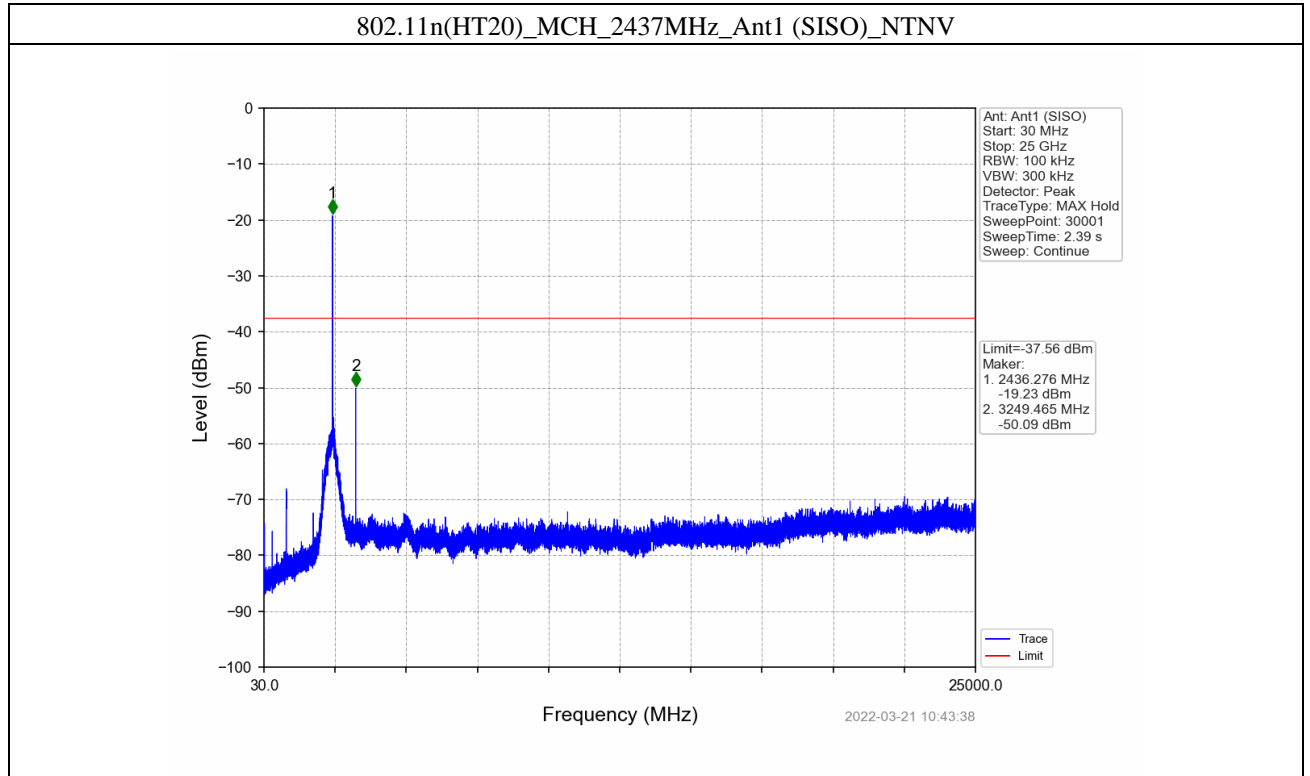


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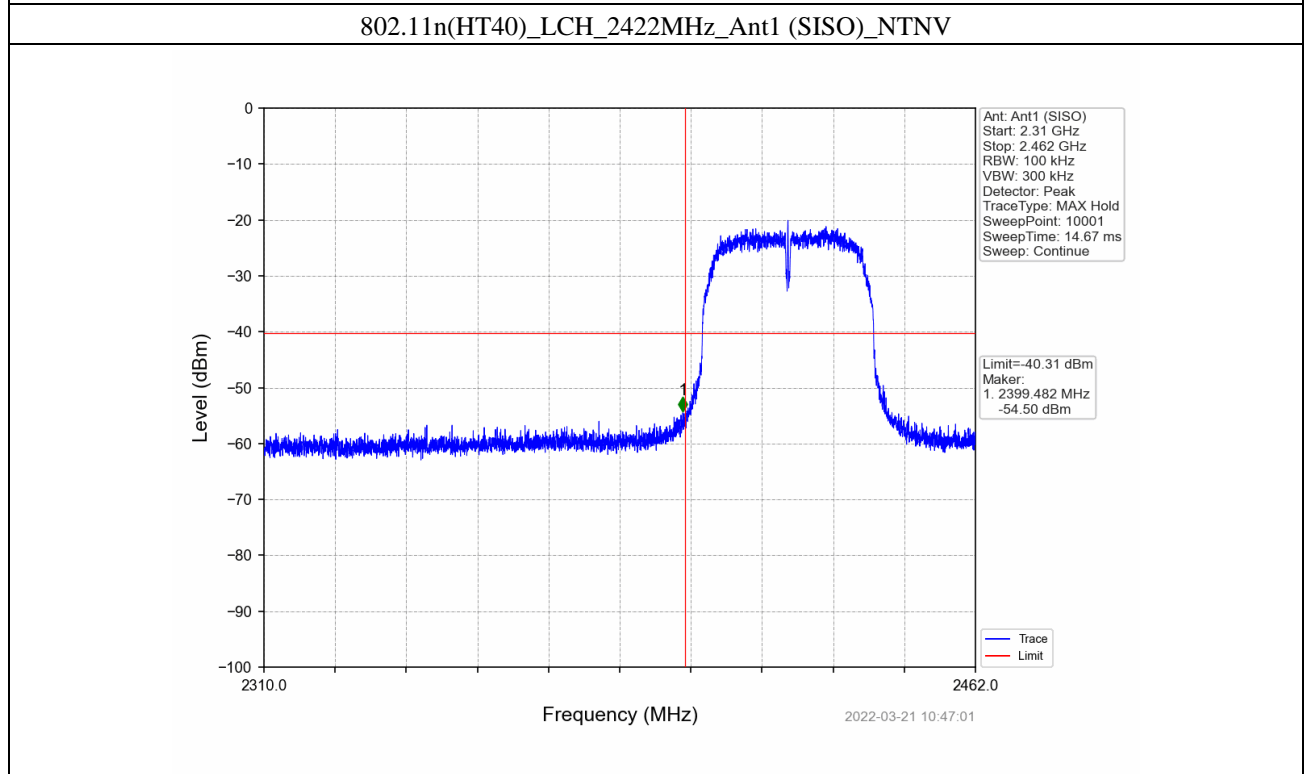
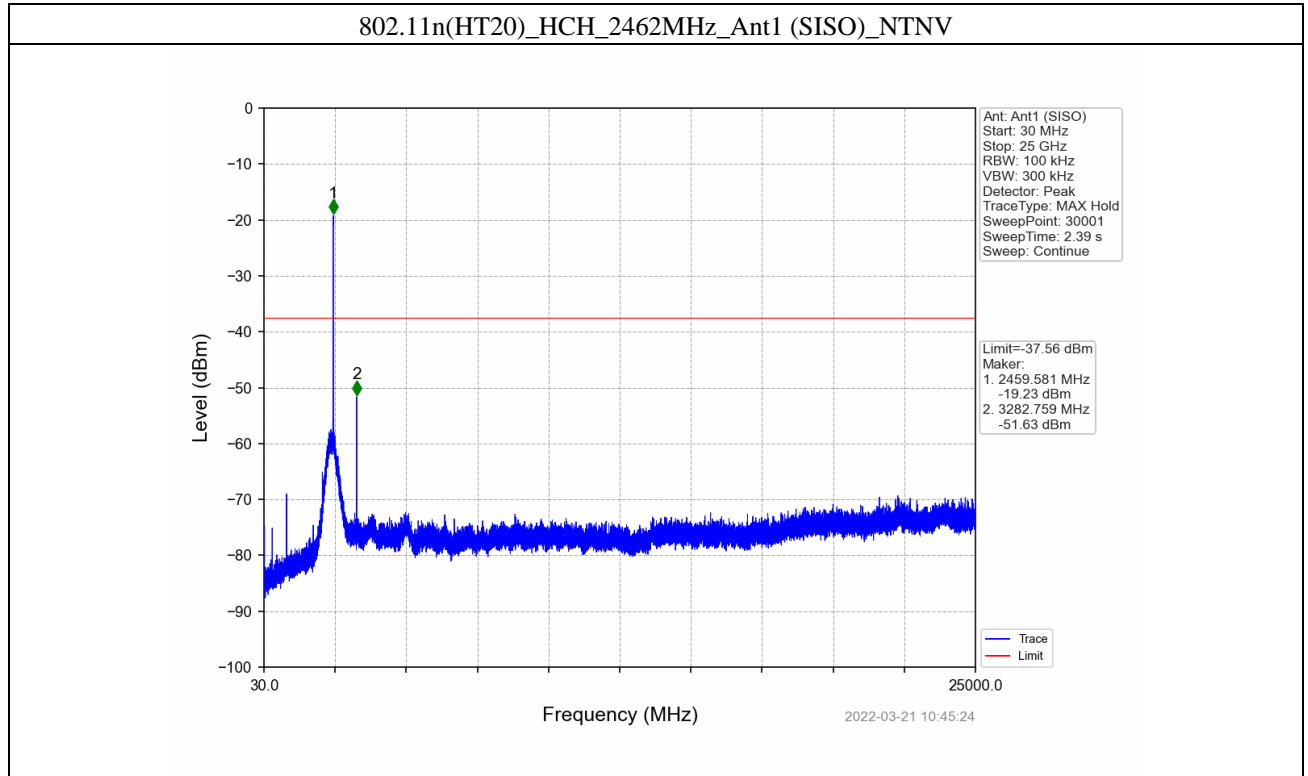
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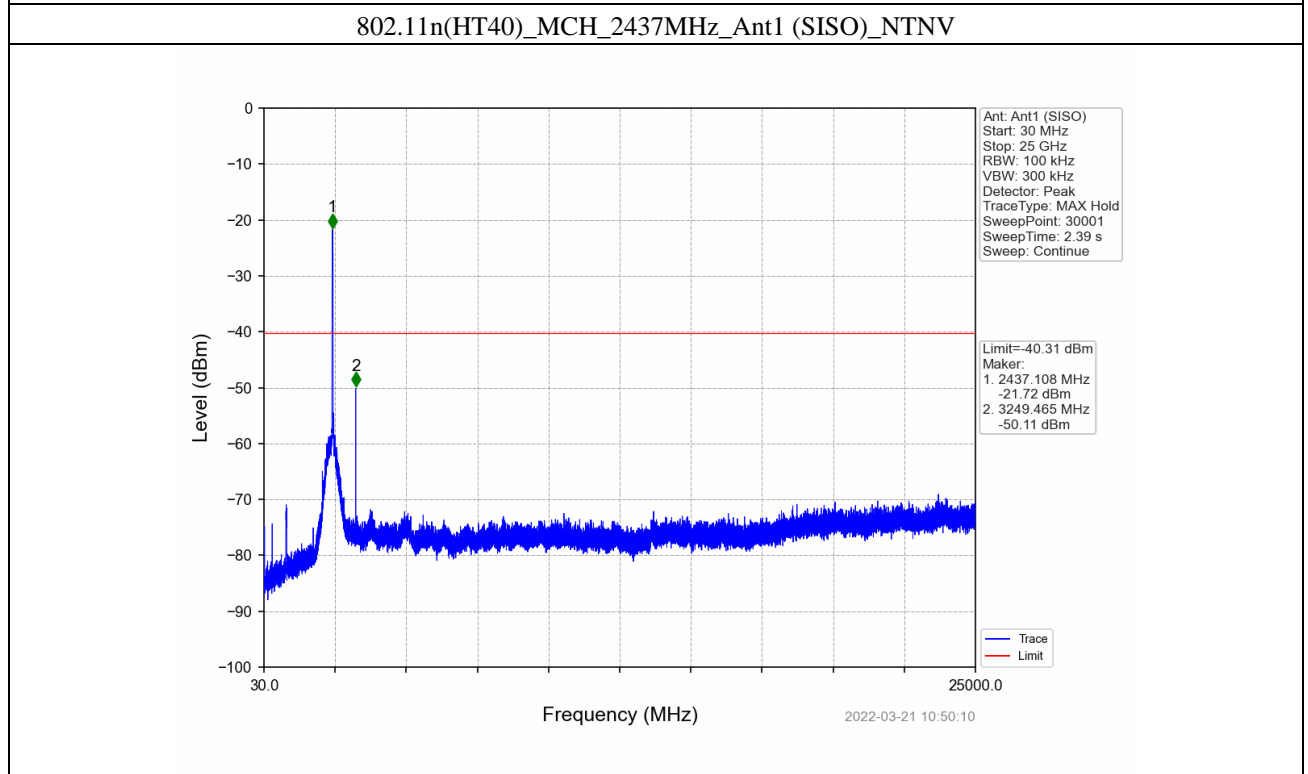
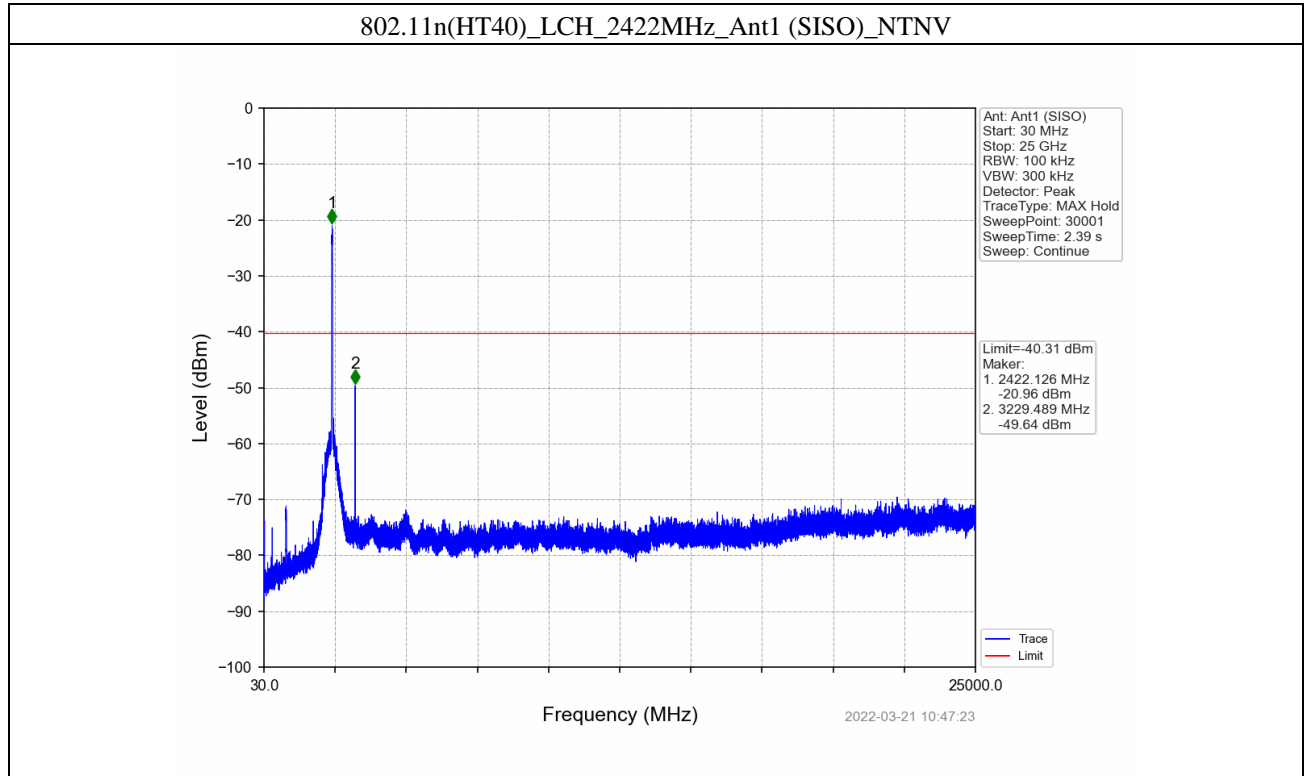


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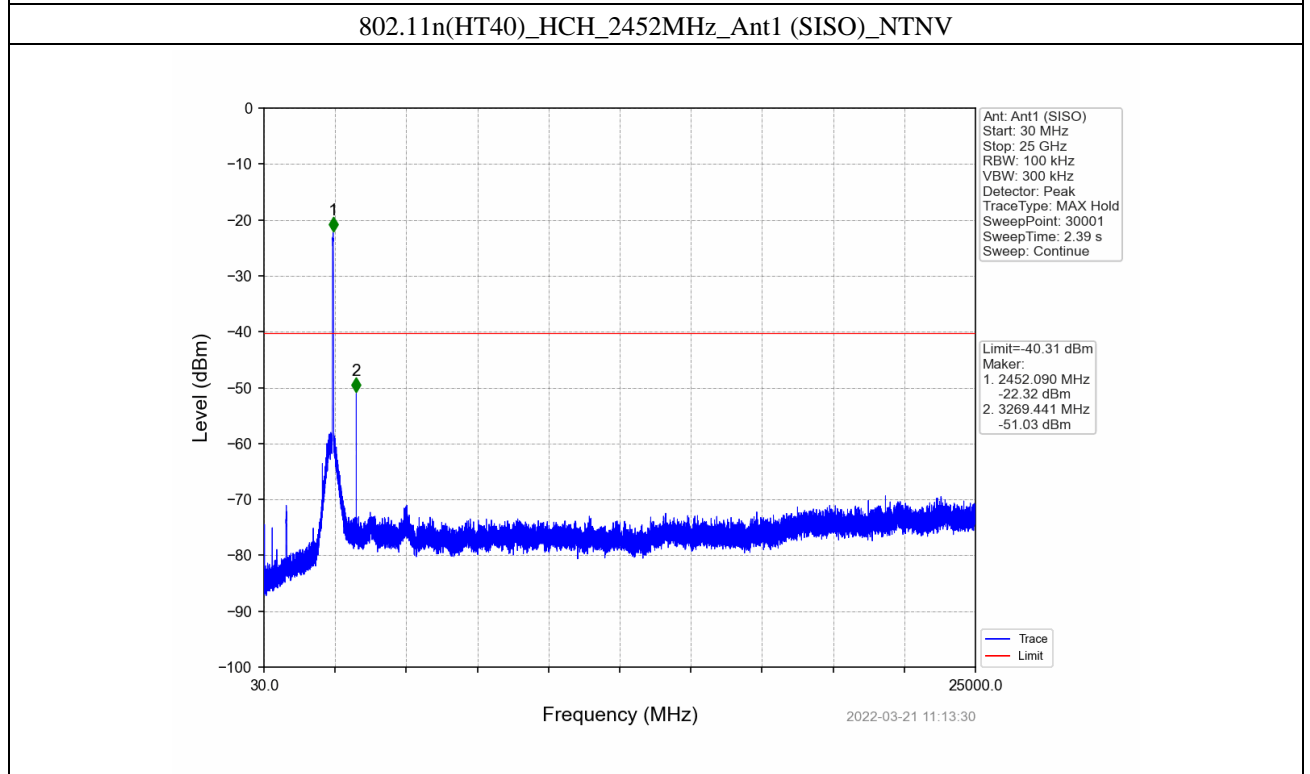


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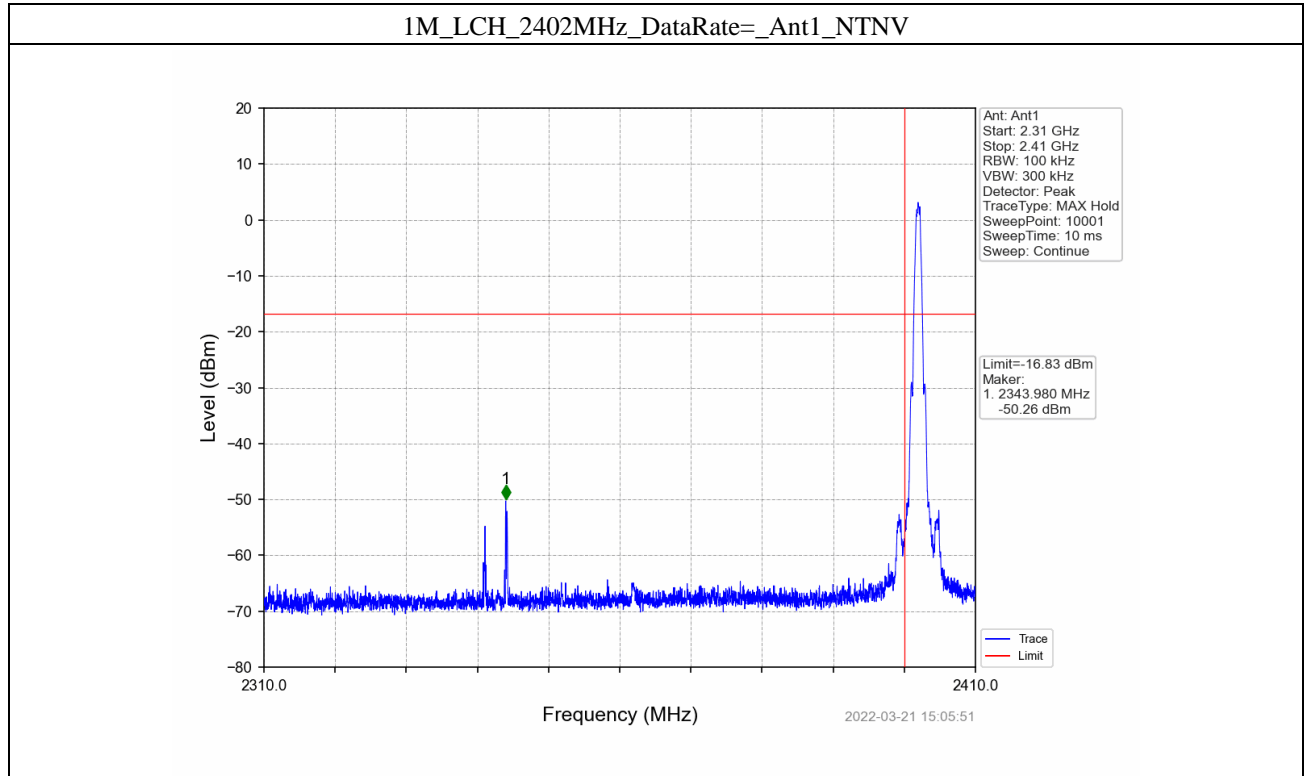


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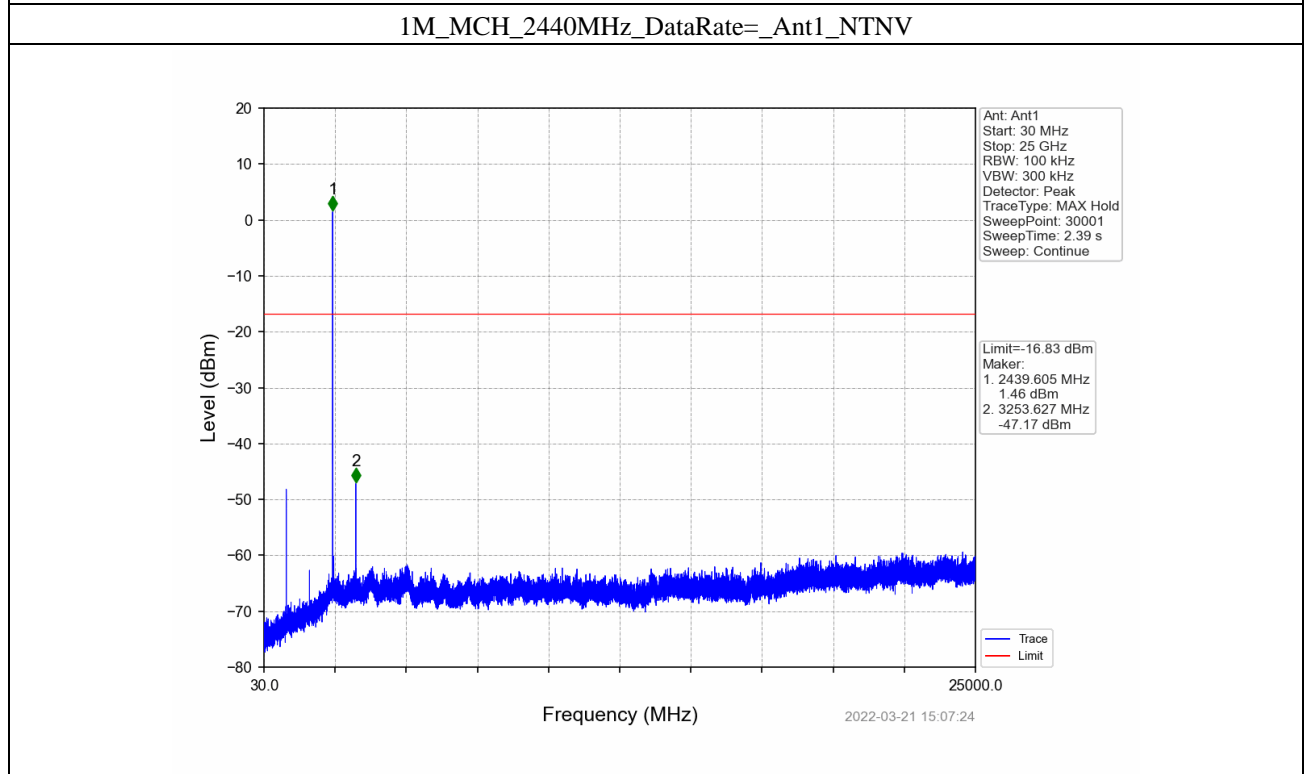
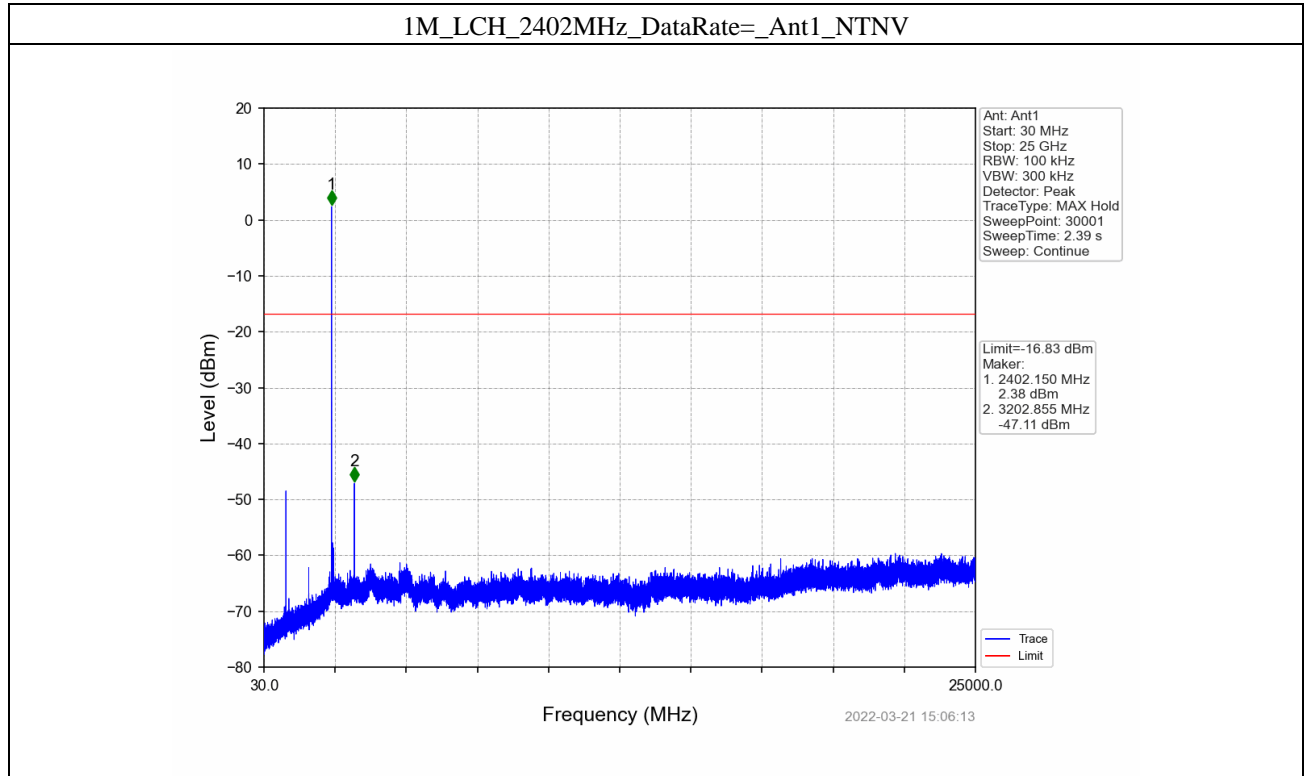
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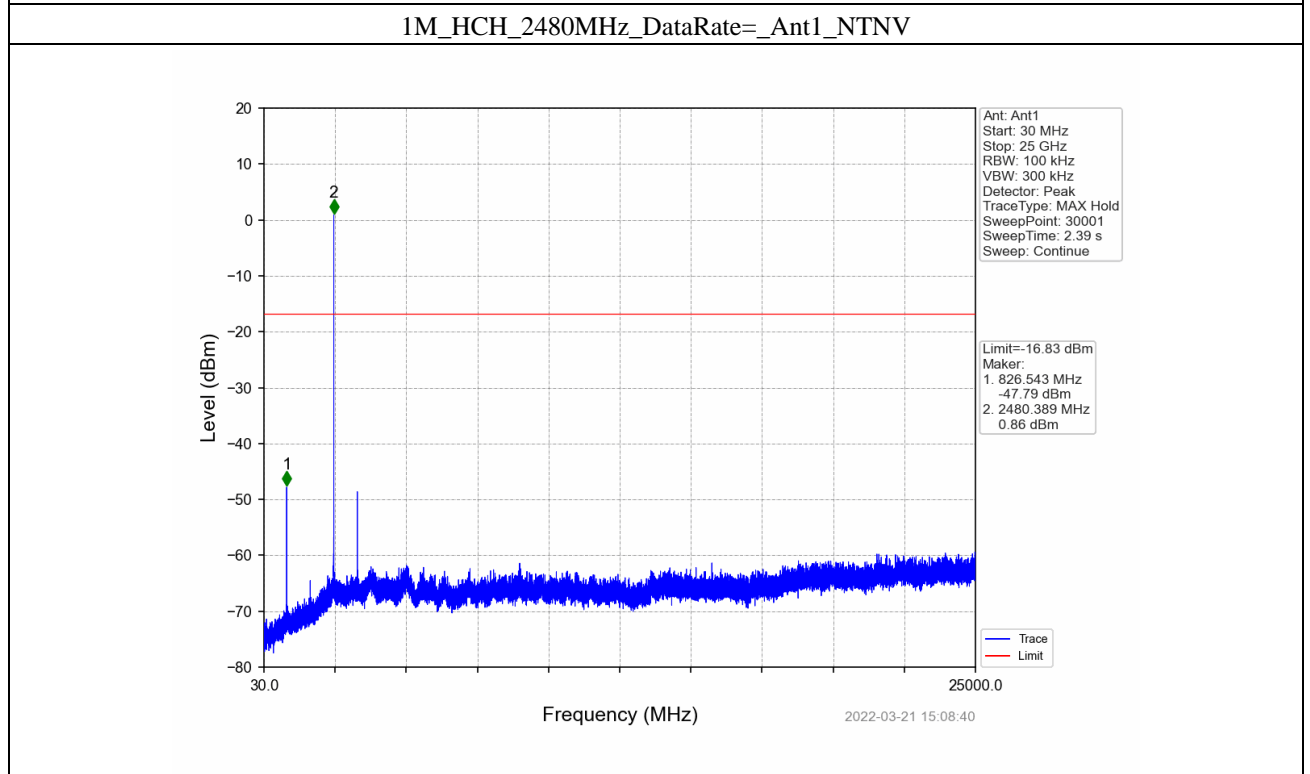
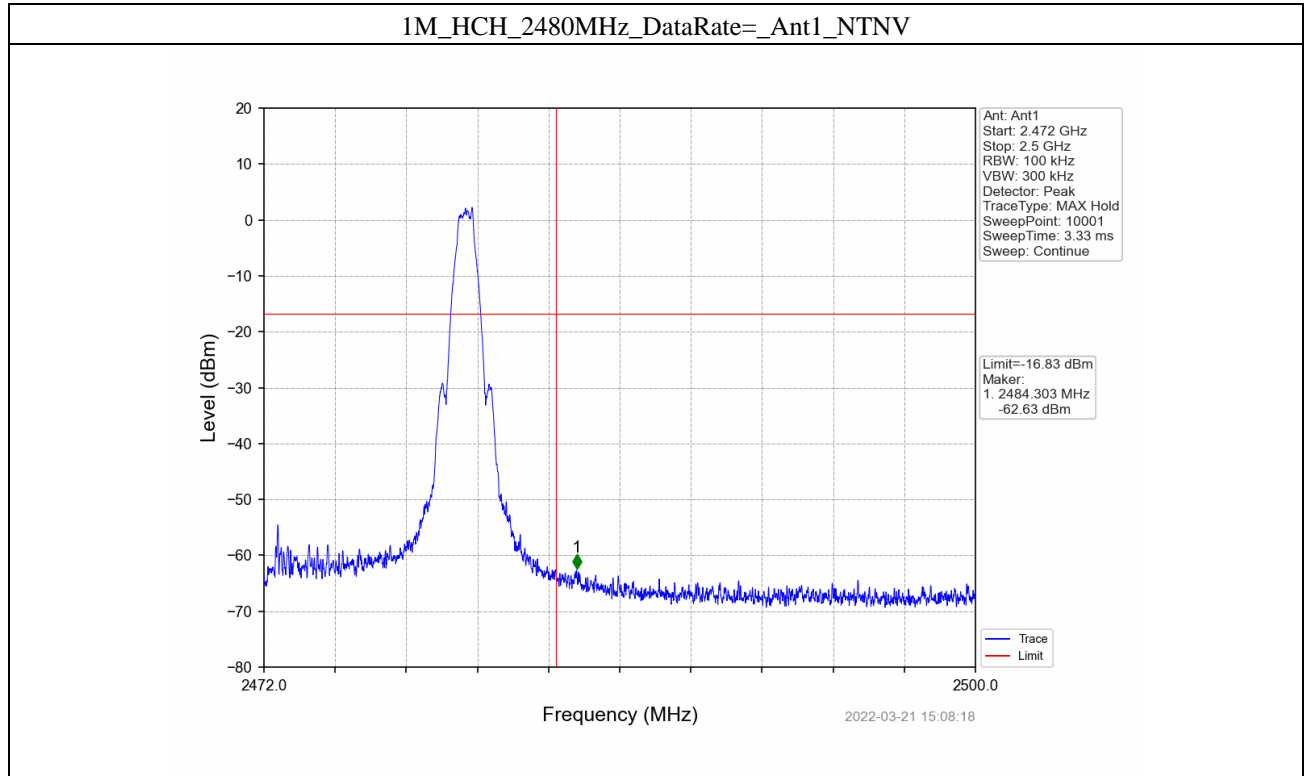


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