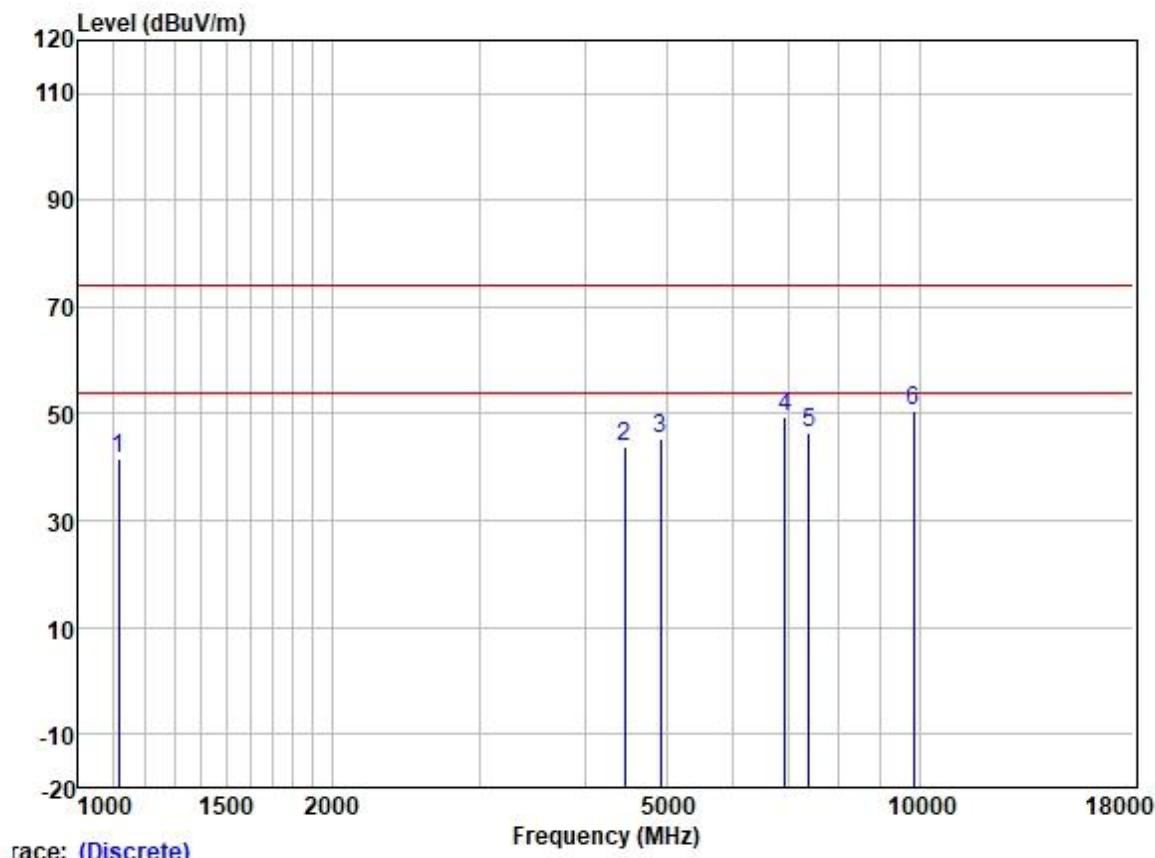


Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



ReadAntenna	Cable	Preamp	Limit	Over	Race: (Discrete)								
					Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB						
1 1116.093	48.07	24.40	7.46	38.43	41.50	74.00	-32.50	VERTICAL		peak			
2 4456.315	44.94	30.75	4.86	36.81	43.74	74.00	-30.26	VERTICAL		peak			
3 4924.000	45.13	31.62	5.31	36.84	45.22	74.00	-28.78	VERTICAL		peak			
4 6914.763	44.97	34.89	6.73	37.19	49.40	74.00	-24.60	VERTICAL		peak			
5 7386.000	41.18	36.17	6.59	37.45	46.49	74.00	-27.51	VERTICAL		peak			
6 9848.000	41.66	38.58	7.71	37.41	50.54	74.00	-23.46	VERTICAL		peak			

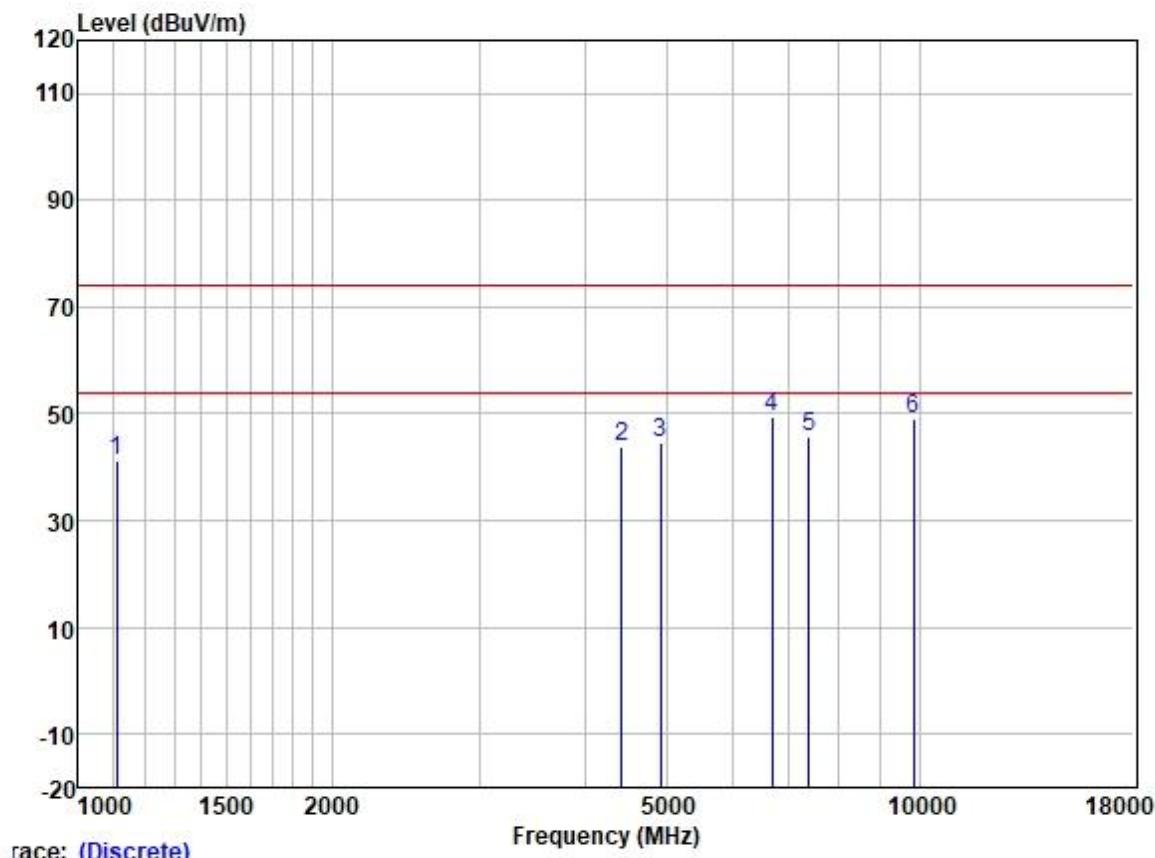
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



ReadAntenna	Cable	Preamp	Limit	Over	Limit			Over	Pol/Phase	Remark
					Freq	Level	Factor	Loss	Factor	Level
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	1109.660	47.76	24.39	7.51	38.45	41.21	74.00	-32.79	HORIZONTAL	peak
2	4430.628	45.14	30.72	4.86	36.81	43.91	74.00	-30.09	HORIZONTAL	peak
3	4924.000	44.32	31.62	5.31	36.84	44.41	74.00	-29.59	HORIZONTAL	peak
4	6679.040	45.73	34.33	6.61	37.07	49.60	74.00	-24.40	HORIZONTAL	peak
5	7386.000	40.29	36.17	6.59	37.45	45.60	74.00	-28.40	HORIZONTAL	peak
6	9848.000	40.13	38.58	7.71	37.41	49.01	74.00	-24.99	HORIZONTAL	peak

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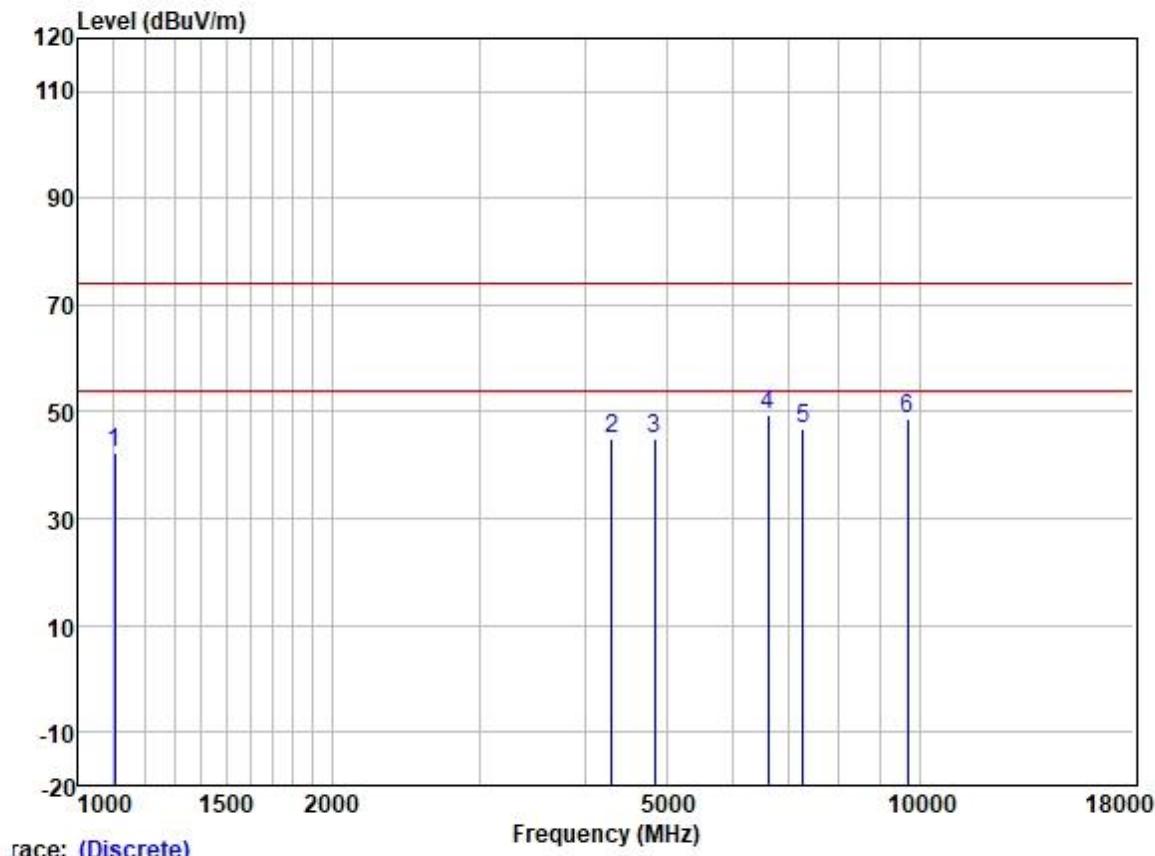
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



ReadAntenna	Cable	Preamp	Limit	Over	Remark								
					Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB			
1	1103.264	48.70	24.37	7.56	38.45	42.18	74.00	-31.82	VERTICAL	peak			
2	4304.400	46.46	30.48	4.90	36.81	45.03	74.00	-28.97	VERTICAL	peak			
3	4844.000	45.09	31.50	5.25	36.84	45.00	74.00	-29.00	VERTICAL	peak			
4	6602.265	45.76	34.16	6.57	37.04	49.45	74.00	-24.55	VERTICAL	peak			
5	7266.000	41.93	35.78	6.64	37.41	46.94	74.00	-27.06	VERTICAL	peak			
6	9688.000	40.15	38.44	7.57	37.42	48.74	74.00	-25.26	VERTICAL	peak			

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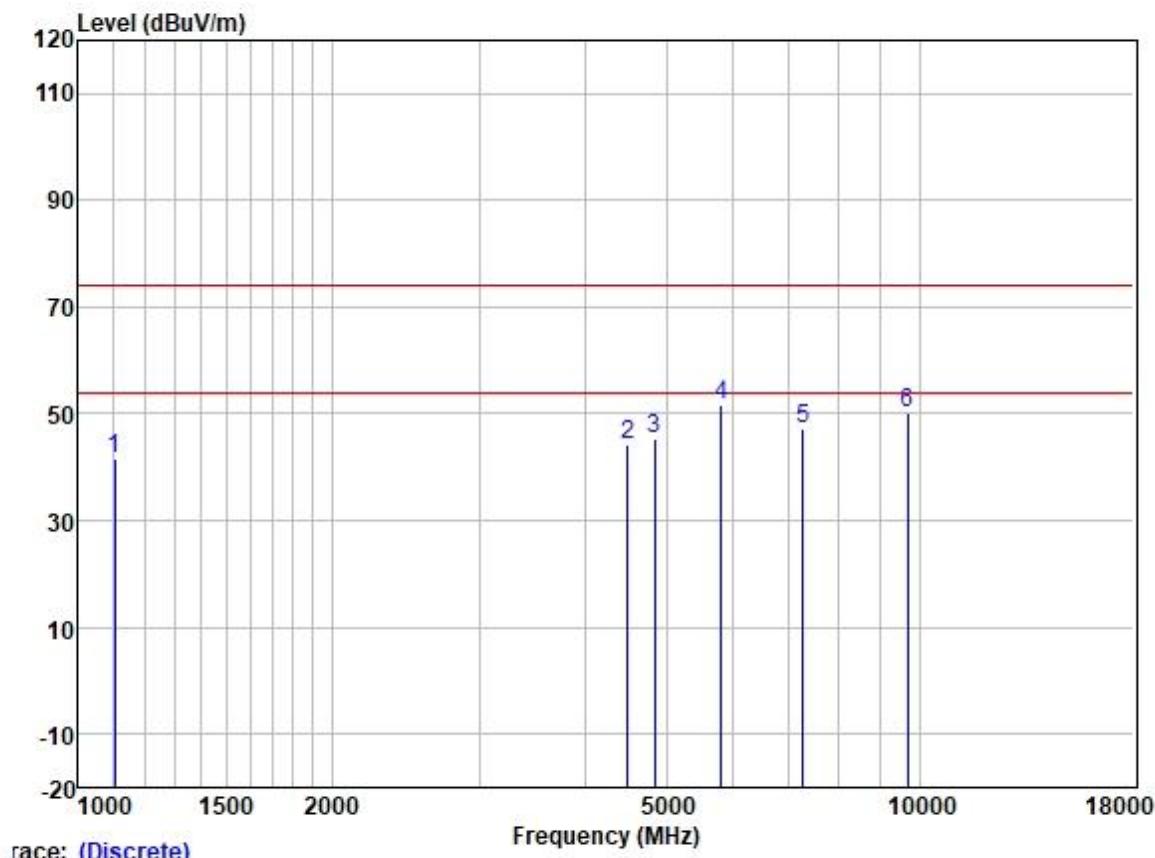


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Member of the SGS Group (SGS SA)

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



Freq	ReadAntenna		Cable Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB				
1 1103.264	48.19	24.37	7.56	38.45	41.67	74.00	-32.33	HORIZONTAL peak
2 4495.125	45.31	30.80	4.85	36.82	44.14	74.00	-29.86	HORIZONTAL peak
3 4844.000	45.52	31.50	5.25	36.84	45.43	74.00	-28.57	HORIZONTAL peak
4 5813.812	50.66	32.21	5.87	36.90	51.84	74.00	-22.16	HORIZONTAL peak
5 7266.000	42.29	35.78	6.64	37.41	47.30	74.00	-26.70	HORIZONTAL peak
6 9688.000	41.68	38.44	7.57	37.42	50.27	74.00	-23.73	HORIZONTAL peak

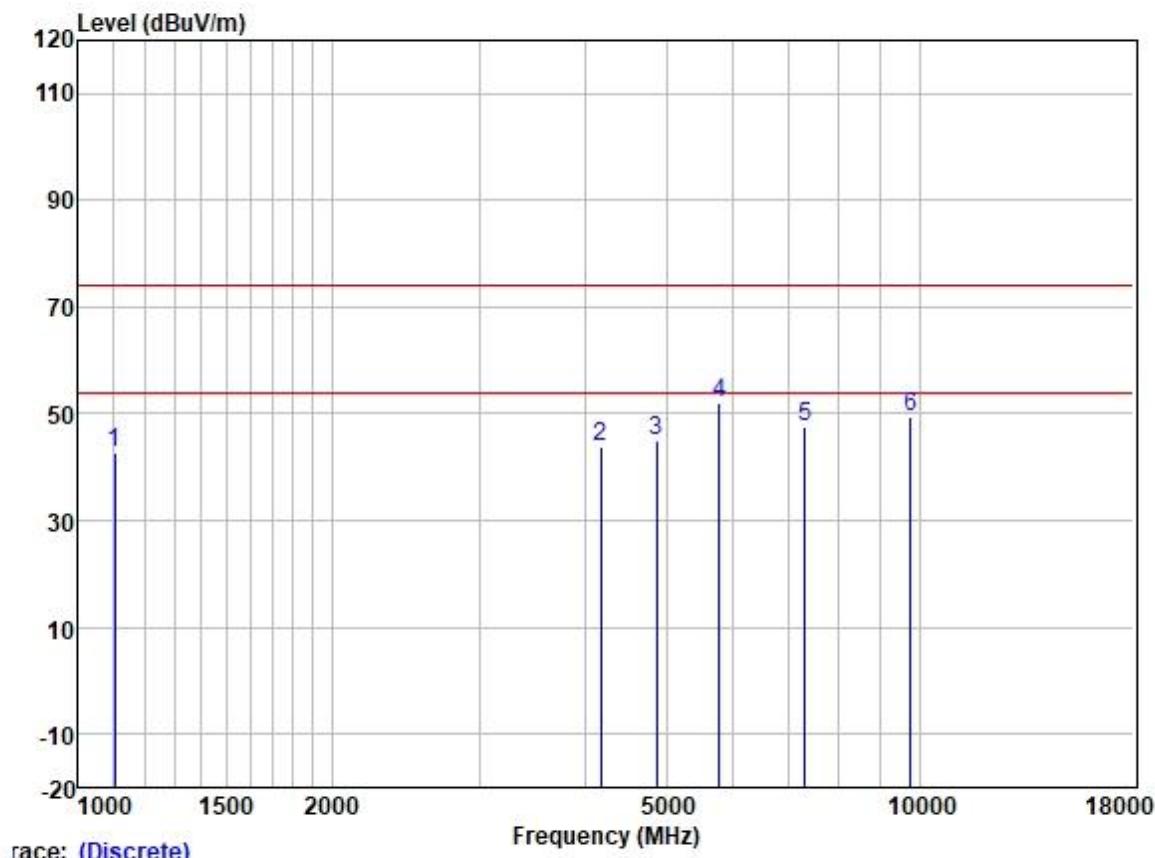
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor							
					Loss	Factor					
1	1103.264	49.11	24.37	7.56	38.45	42.59	74.00	-31.41	VERTICAL	peak	
2	4181.768	45.54	30.12	4.96	36.80	43.82	74.00	-30.18	VERTICAL	peak	
3	4874.000	45.04	31.54	5.27	36.84	45.01	74.00	-28.99	VERTICAL	peak	
4	5780.300	51.02	32.16	5.84	36.89	52.13	74.00	-21.87	VERTICAL	peak	
5	7311.000	42.36	35.93	6.62	37.42	47.49	74.00	-26.51	VERTICAL	peak	
6	9748.000	40.59	38.50	7.62	37.41	49.30	74.00	-24.70	VERTICAL	peak	

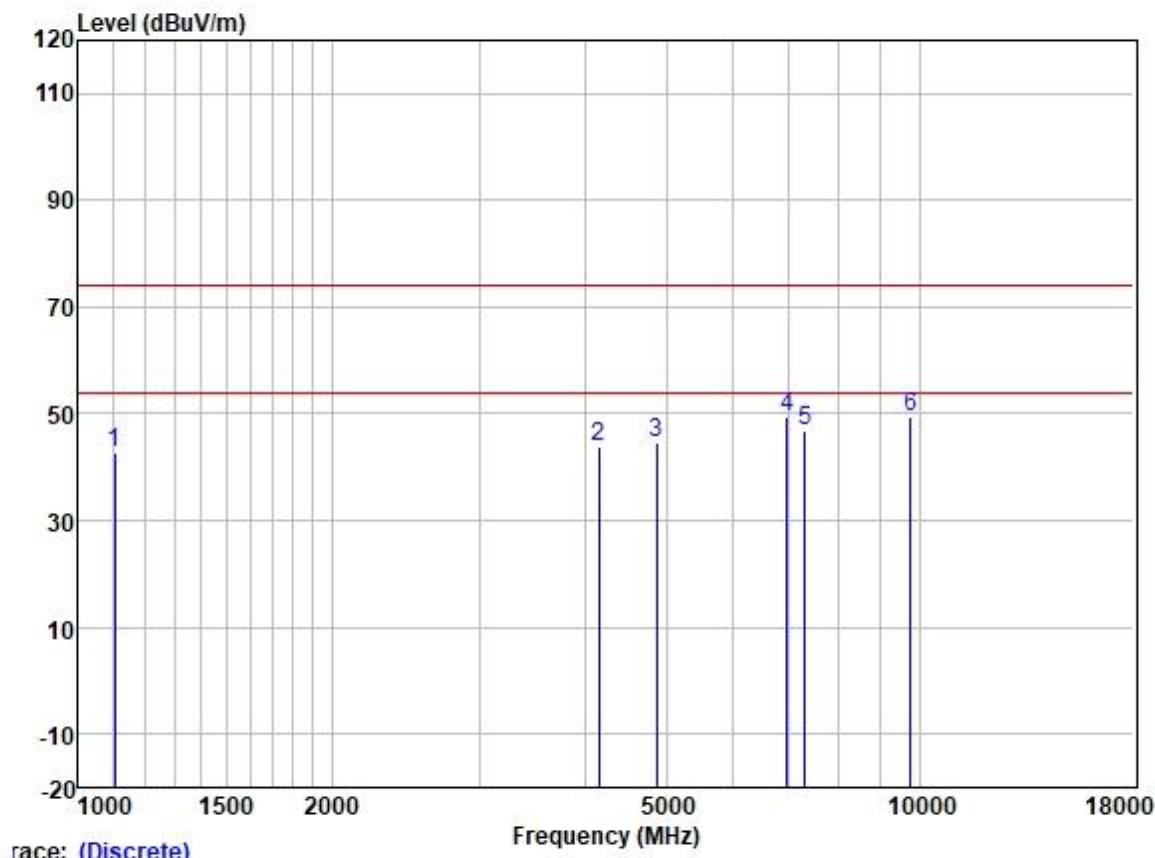
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB						
1 1103.264	49.26	24.37	7.56	38.45	42.74	74.00	-31.26	HORIZONTAL	peak	
2 4157.664	45.75	30.06	4.97	36.80	43.98	74.00	-30.02	HORIZONTAL	peak	
3 4874.000	44.76	31.54	5.27	36.84	44.73	74.00	-29.27	HORIZONTAL	peak	
4 6954.852	45.12	34.95	6.74	37.21	49.60	74.00	-24.40	HORIZONTAL	peak	
5 7311.000	41.65	35.93	6.62	37.42	46.78	74.00	-27.22	HORIZONTAL	peak	
6 9748.000	40.91	38.50	7.62	37.41	49.62	74.00	-24.38	HORIZONTAL	peak	

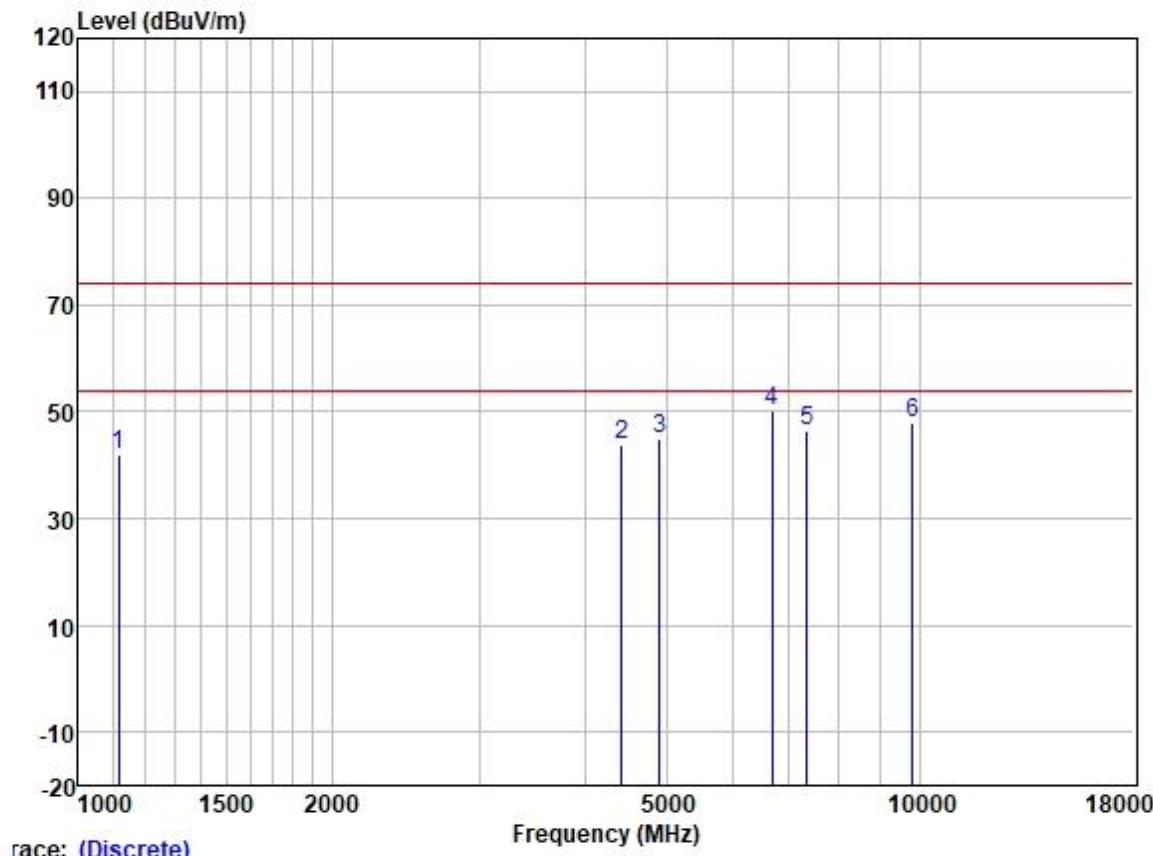
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	Cable Loss					
1	1116.093	48.62	24.40	7.46	38.43	42.05	74.00	-31.95	VERTICAL peak
2	4430.628	44.94	30.72	4.86	36.81	43.71	74.00	-30.29	VERTICAL peak
3	4904.000	44.82	31.58	5.29	36.84	44.85	74.00	-29.15	VERTICAL peak
4	6679.040	46.21	34.33	6.61	37.07	50.08	74.00	-23.92	VERTICAL peak
5	7356.000	41.10	36.06	6.61	37.44	46.33	74.00	-27.67	VERTICAL peak
6	9808.000	39.09	38.56	7.68	37.41	47.92	74.00	-26.08	VERTICAL peak

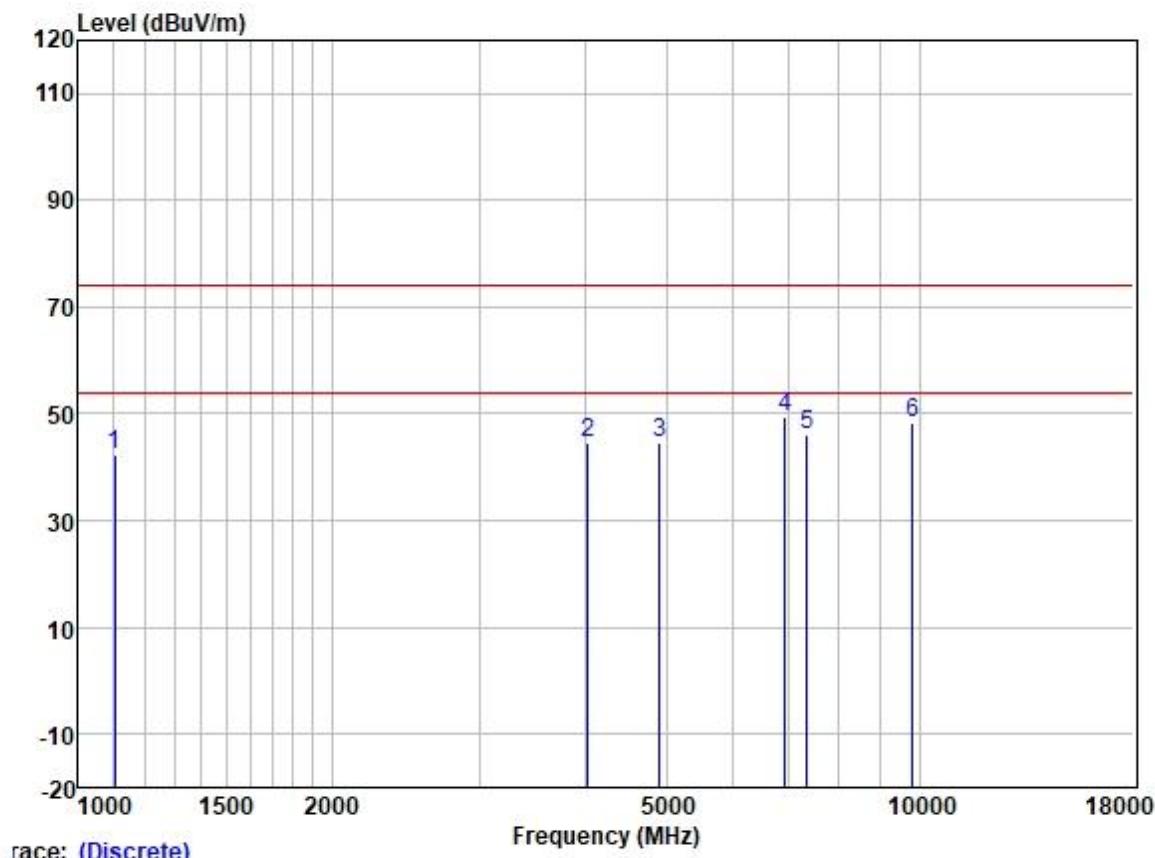
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



ReadAntenna	Cable	Preamp	Limit	Over	Race: (Discrete)								
					Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB						
1 1103.264	48.91	24.37	7.56	38.45	42.39	74.00	-31.61	HORIZONTAL	peak				
2 4039.212	46.55	29.85	5.00	36.80	44.60	74.00	-29.40	HORIZONTAL	peak				
3 4904.000	44.71	31.58	5.29	36.84	44.74	74.00	-29.26	HORIZONTAL	peak				
4 6914.763	45.12	34.89	6.73	37.19	49.55	74.00	-24.45	HORIZONTAL	peak				
5 7356.000	40.88	36.06	6.61	37.44	46.11	74.00	-27.89	HORIZONTAL	peak				
6 9808.000	39.48	38.56	7.68	37.41	48.31	74.00	-25.69	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(dB $\mu$ V)	
	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: 19.8 °C      Humidity: 57.0 % RH      Atmospheric Pressure: 1014 mbar

#### 8.1.2 Test Mode Description

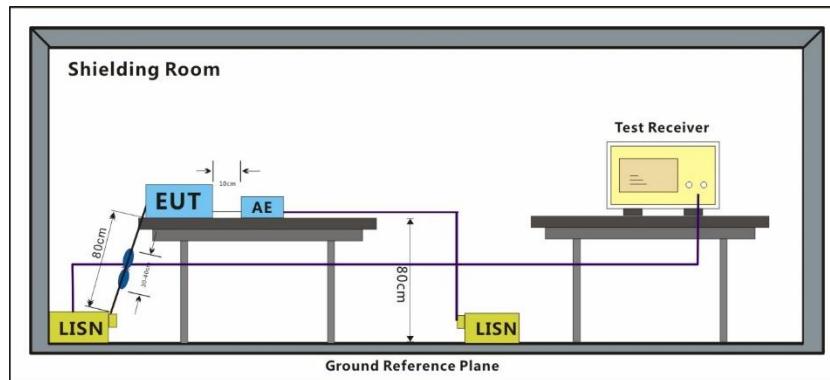
Pre-scan / Final test	Mode / Code	Description
		TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; 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.
Final test	00	

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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  $50\text{ohm}/50\mu\text{H} + 5\text{ohm}$  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

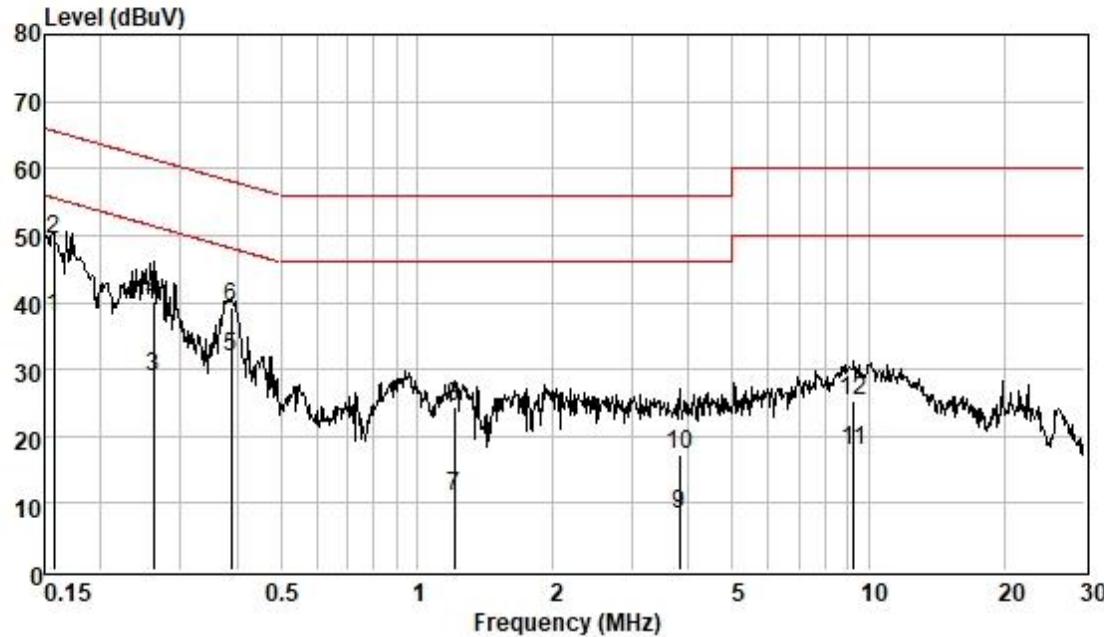
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Test Mode: 00; Line: Live line



Pol :LINE

Mode :

Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.16	28.24	0.06	9.54	37.84	55.60	-17.76	Average
0.16	39.71	0.06	9.54	49.31	65.60	-16.29	QP
0.26	19.22	0.06	9.57	28.85	51.38	-22.53	Average
0.26	30.49	0.06	9.57	40.12	61.38	-21.26	QP
0.39	22.08	0.06	9.58	31.72	48.08	-16.36	Average
0.39	29.47	0.06	9.58	39.11	58.08	-18.97	QP
1.21	1.43	0.08	9.60	11.11	46.00	-34.89	Average
1.21	14.71	0.08	9.60	24.39	56.00	-31.61	QP
3.82	-1.61	0.16	9.64	8.19	46.00	-37.81	Average
3.82	7.58	0.16	9.64	17.38	56.00	-38.62	QP
9.25	7.76	0.22	9.77	17.75	50.00	-32.25	Average
9.25	15.33	0.22	9.77	25.32	60.00	-34.68	QP

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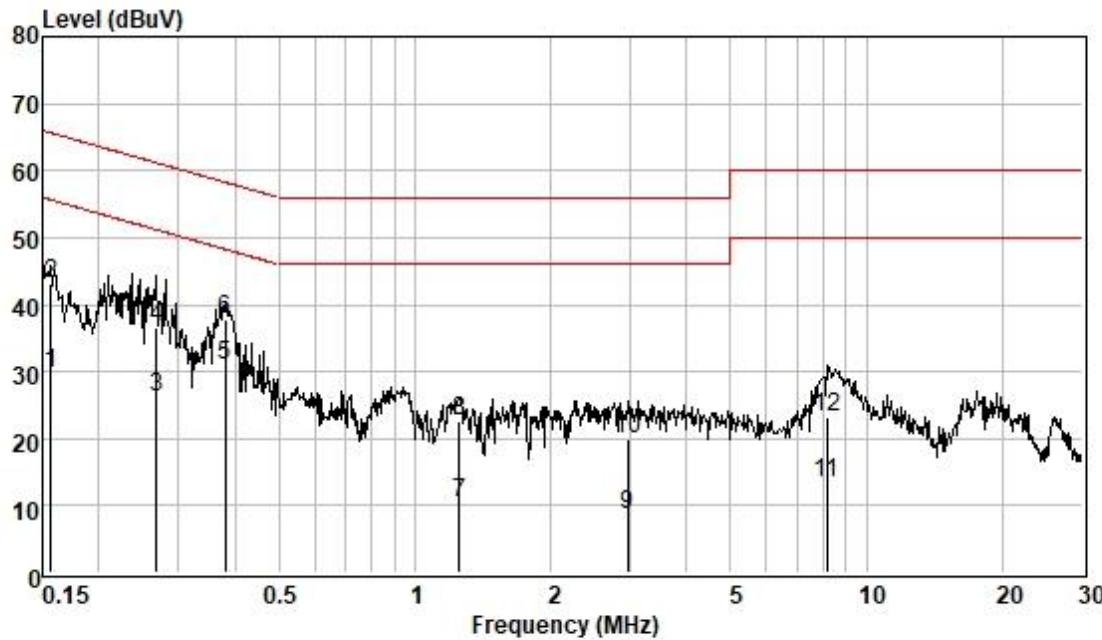


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Test Mode: 00; Line: Neutral Line



Pol :NEUTRAL

Mode :

Model :

Frequenc MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.16	20.16	0.06	9.53	29.75	55.65	-25.90	Average
0.16	33.56	0.06	9.53	43.15	65.65	-22.50	QP
0.27	16.64	0.06	9.56	26.26	51.16	-24.90	Average
0.27	26.89	0.06	9.56	36.51	61.16	-24.65	QP
0.38	21.42	0.06	9.58	31.06	48.25	-17.19	Average
0.38	28.22	0.06	9.58	37.86	58.25	-20.39	QP
1.26	0.62	0.09	9.59	10.30	46.00	-35.70	Average
1.26	12.84	0.09	9.59	22.52	56.00	-33.48	QP
2.96	-1.04	0.15	9.61	8.72	46.00	-37.28	Average
2.96	10.13	0.15	9.61	19.89	56.00	-36.11	QP
8.15	3.30	0.22	9.76	13.28	50.00	-36.72	Average
8.15	13.08	0.22	9.76	23.06	60.00	-36.94	QP

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## 9 Test Setup Photo

Refer to Appendix\_Setup Photo for GZCR220100011402



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## 10 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2201000114AT



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## 11 Appendix

### 1. Duty Cycle

#### 1.1 Ant1

##### 1.1.1 Test Result

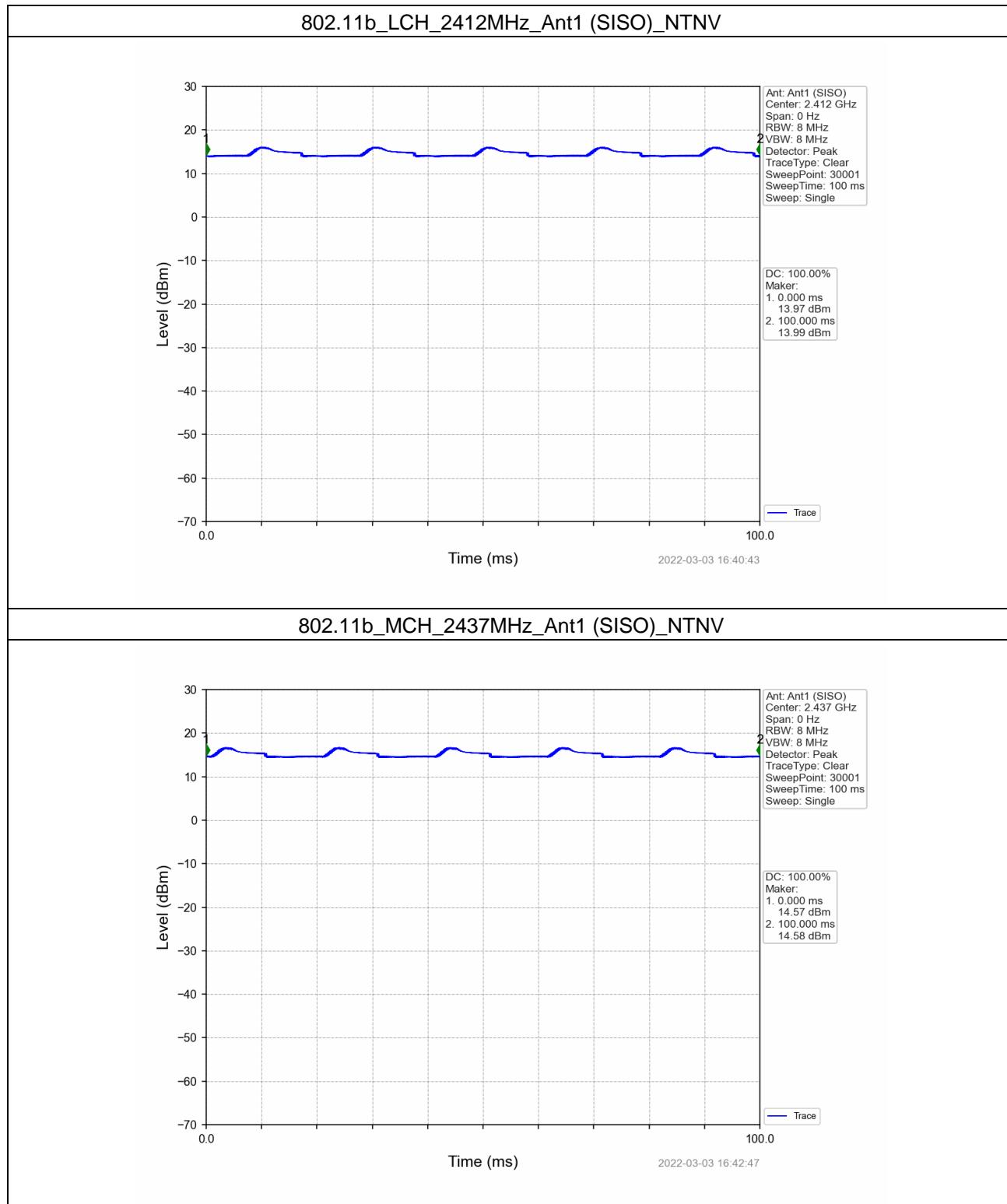
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	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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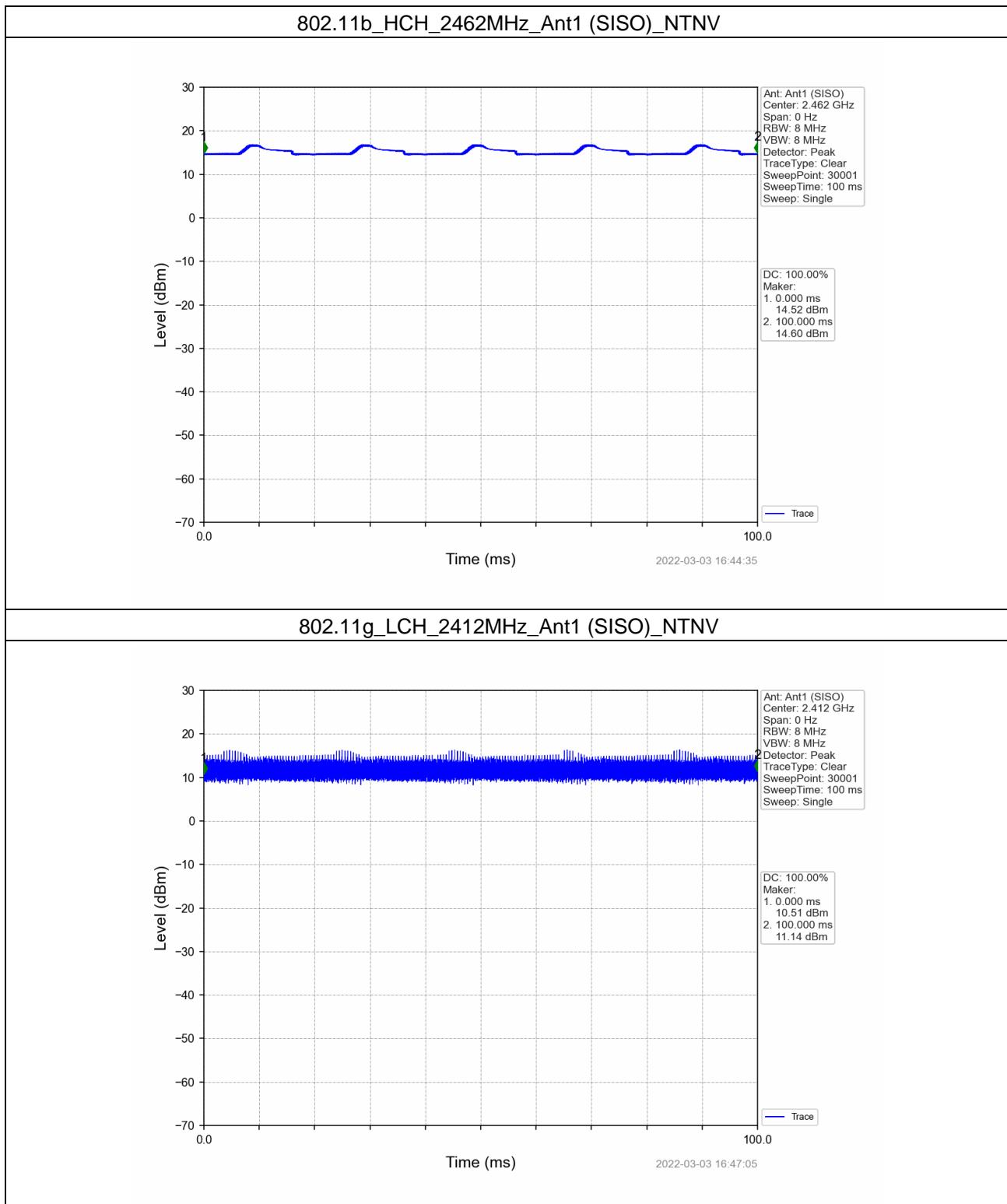
### 1.1.2 Test Graph



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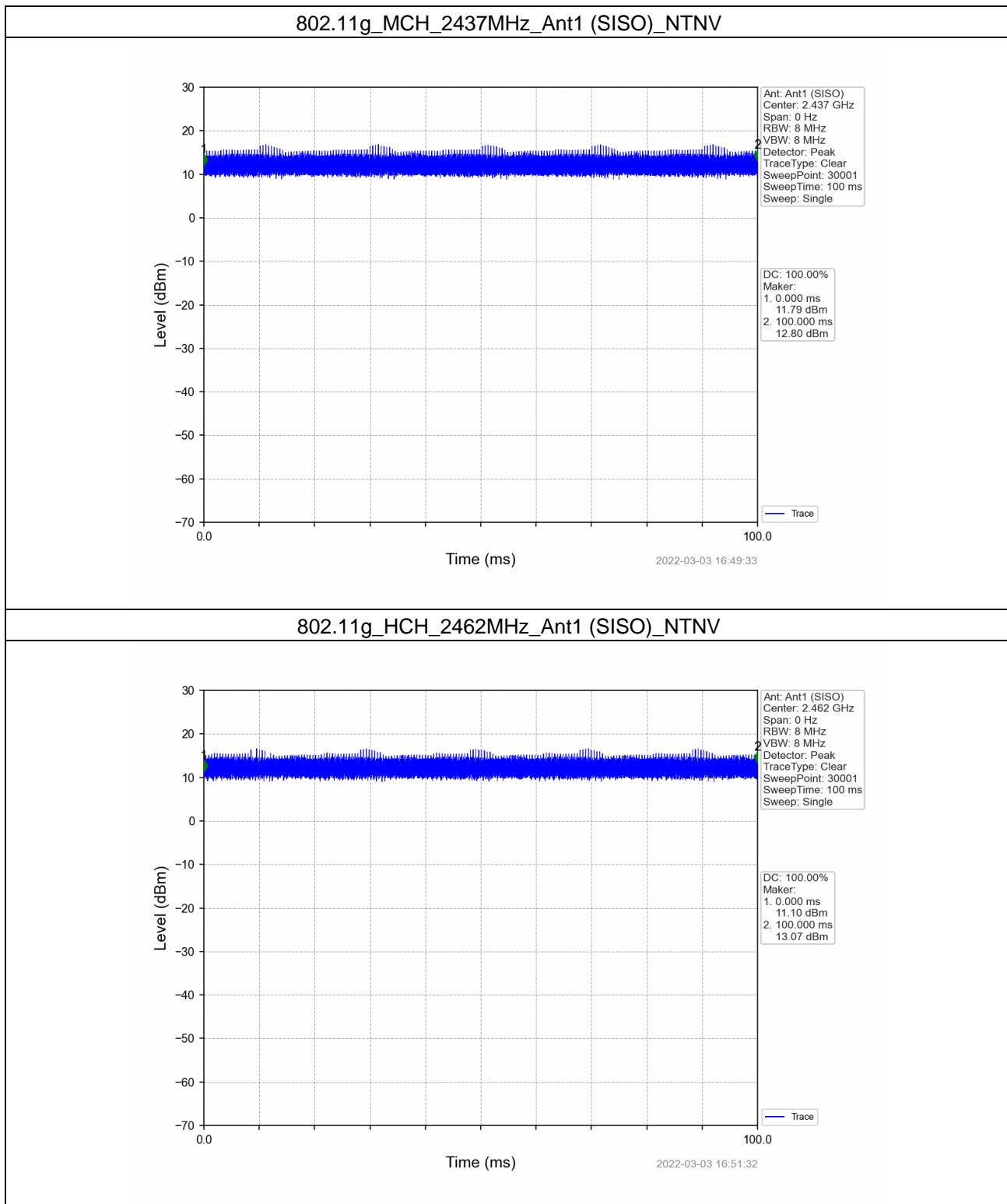


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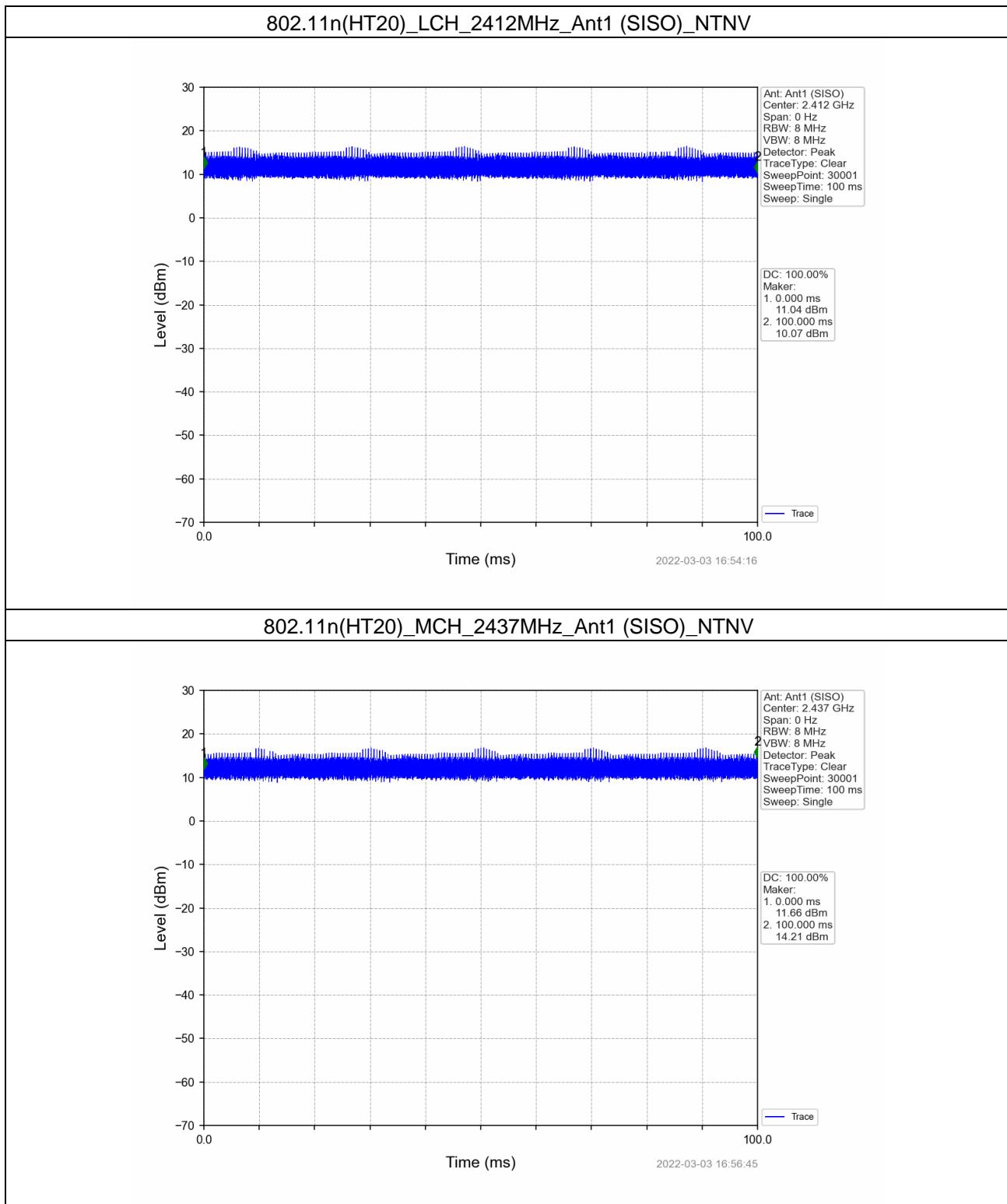


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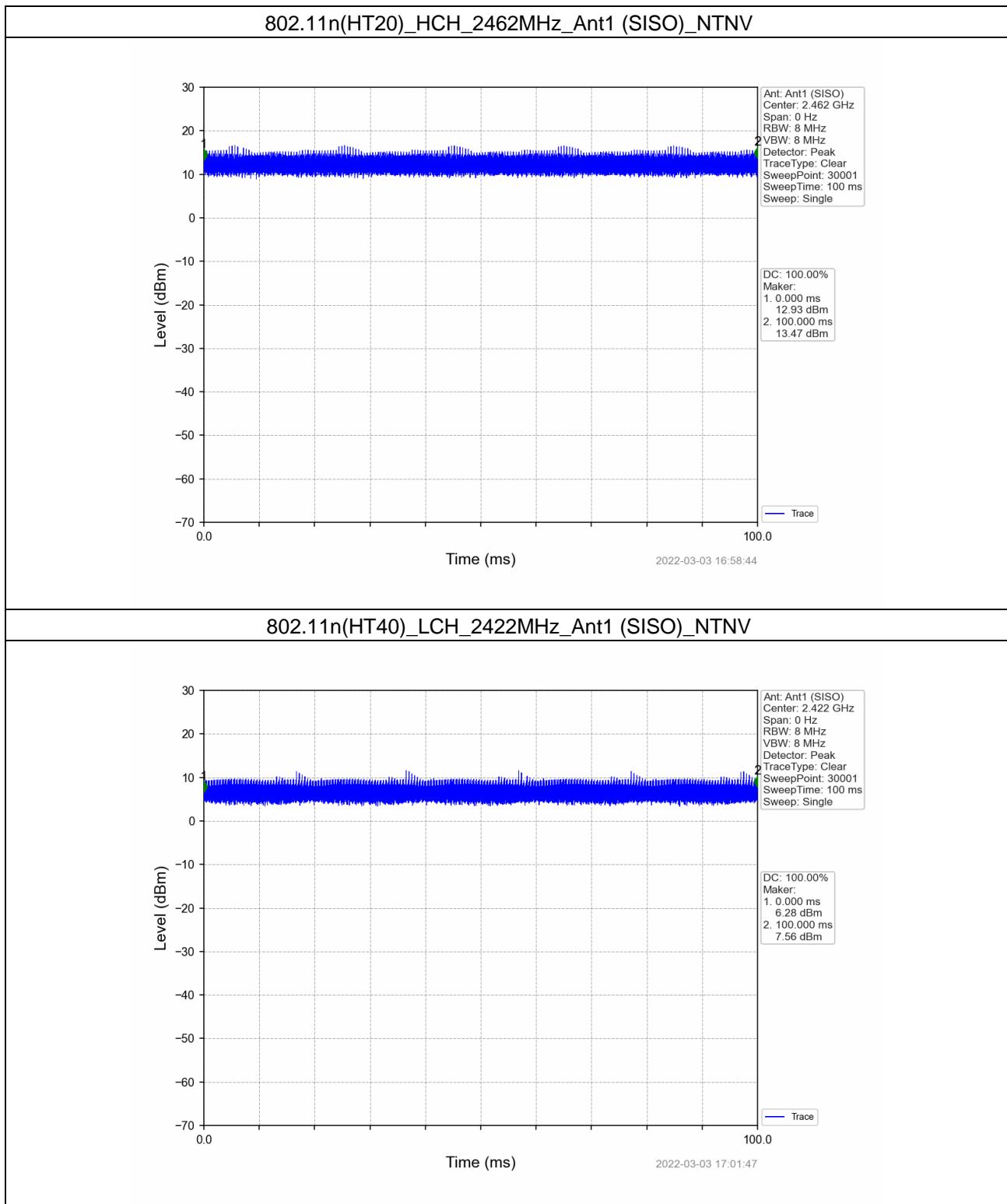


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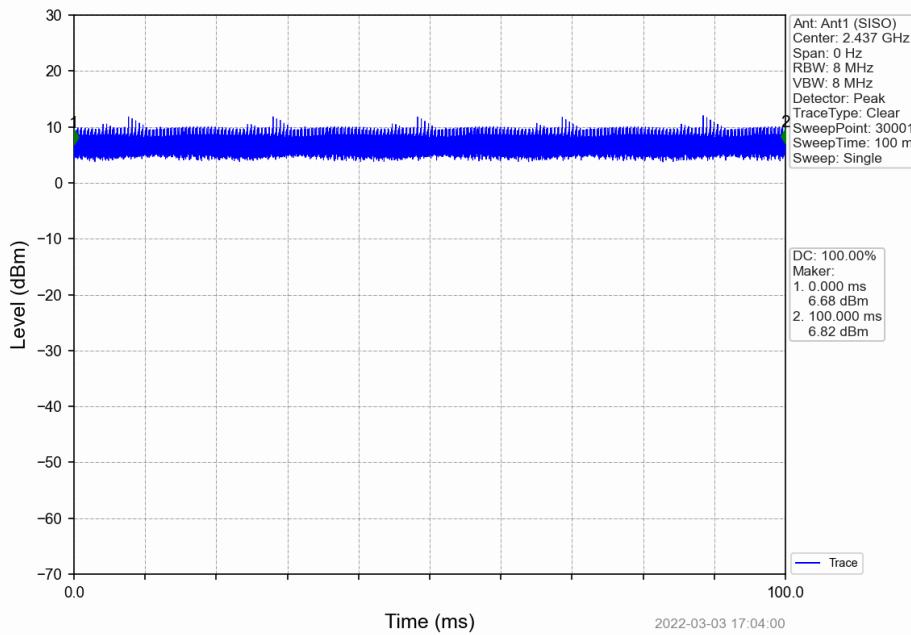
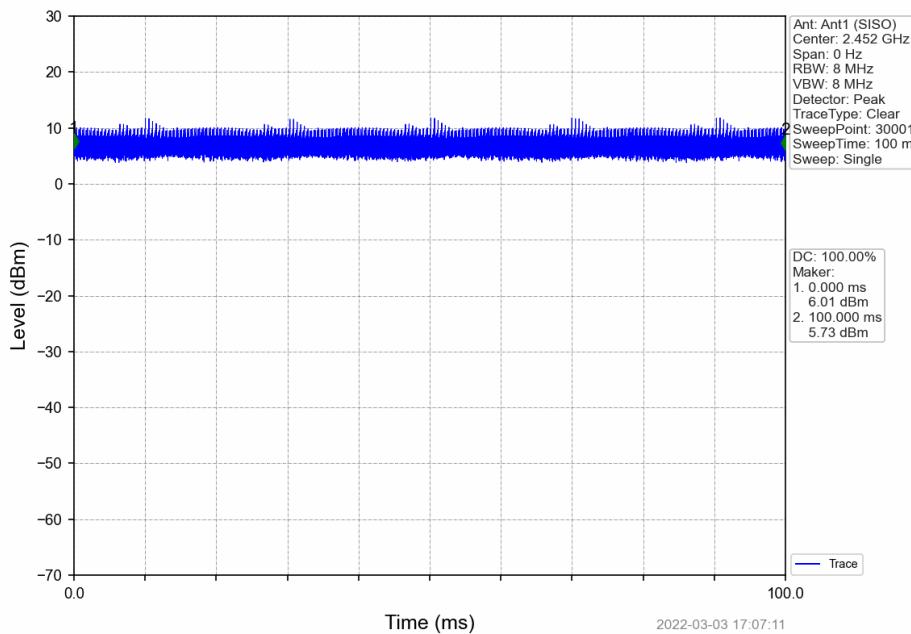


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**802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV****802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV**

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## 2. Bandwidth

### 2.1 6dB BW

#### 2.1.1 Test Result

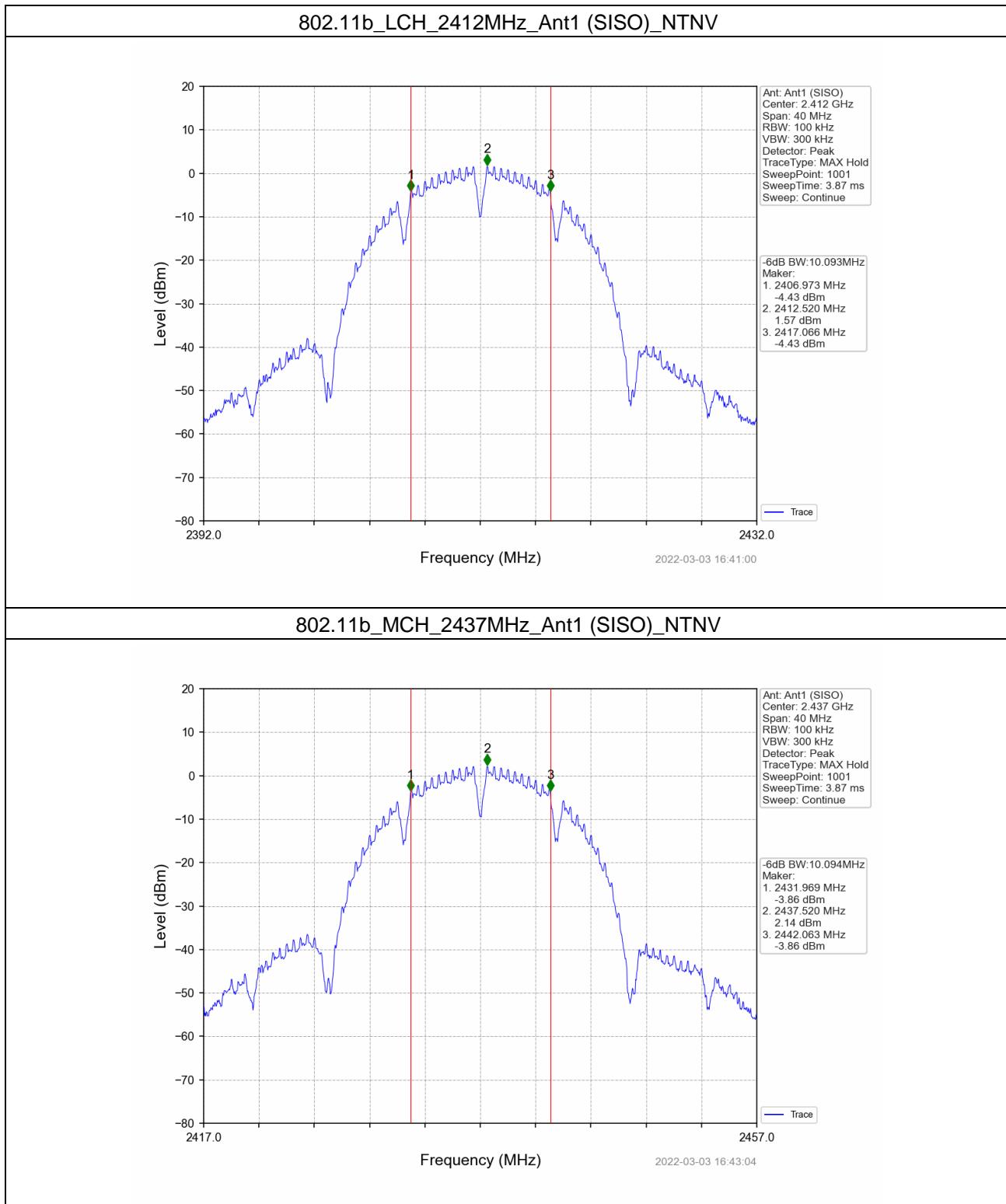
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.093	>=0.5	Pass
		2437	1	10.094	>=0.5	Pass
		2462	1	10.105	>=0.5	Pass
802.11g	SISO	2412	1	16.597	>=0.5	Pass
		2437	1	16.589	>=0.5	Pass
		2462	1	16.591	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	16.594	>=0.5	Pass
		2437	1	16.589	>=0.5	Pass
		2462	1	16.589	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	36.391	>=0.5	Pass
		2437	1	36.387	>=0.5	Pass
		2452	1	36.388	>=0.5	Pass

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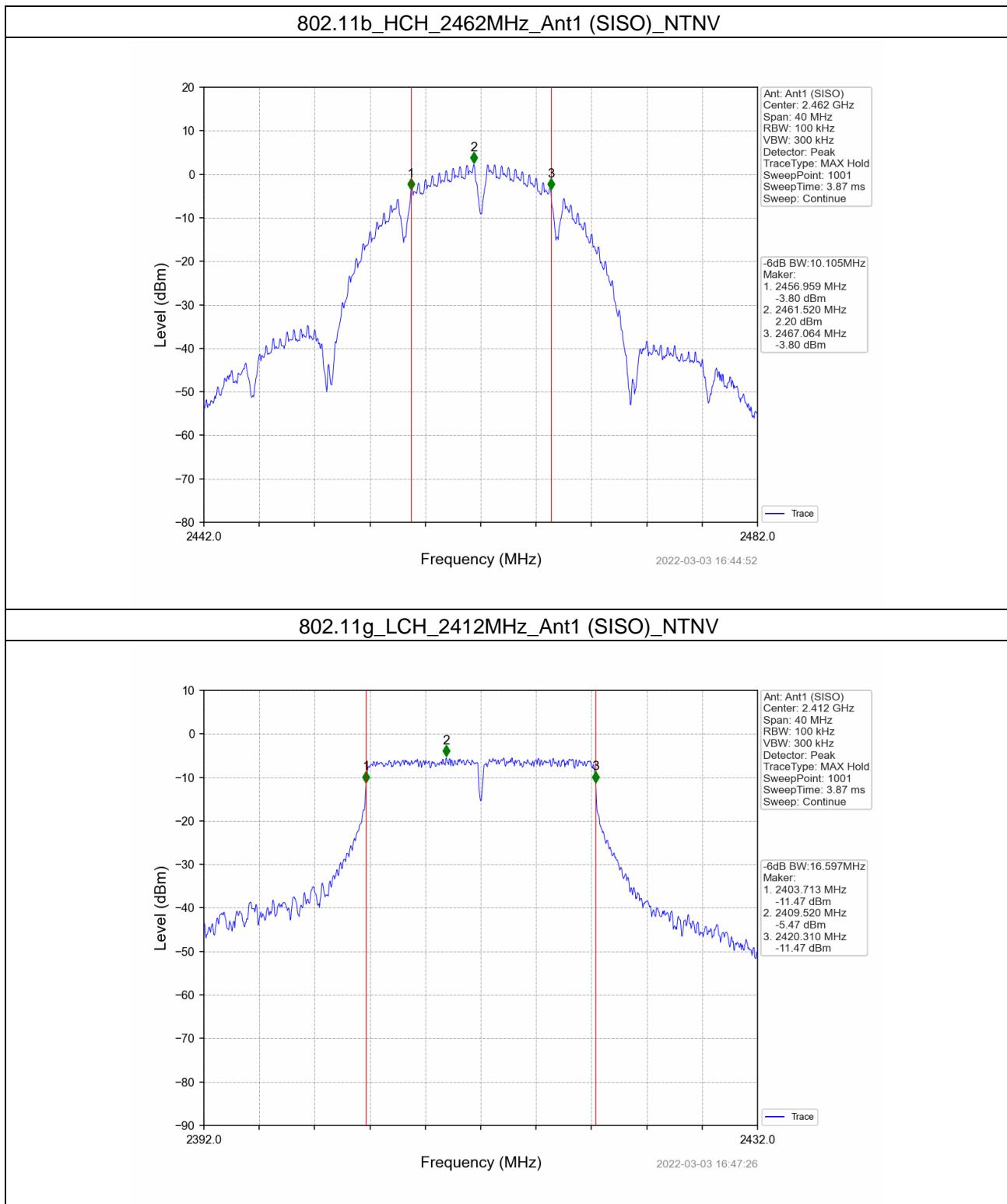
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**2.1.2 Test Graph**

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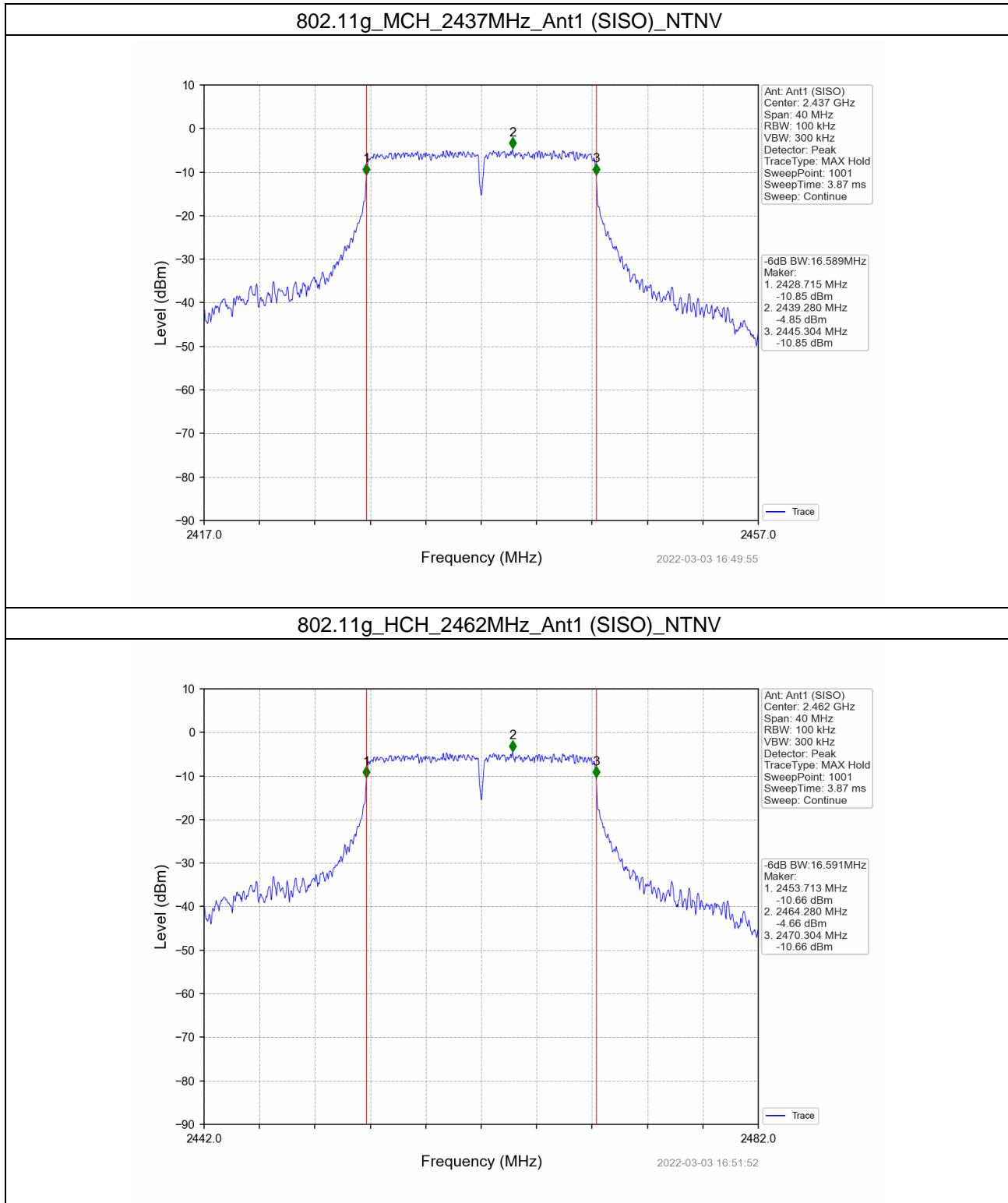


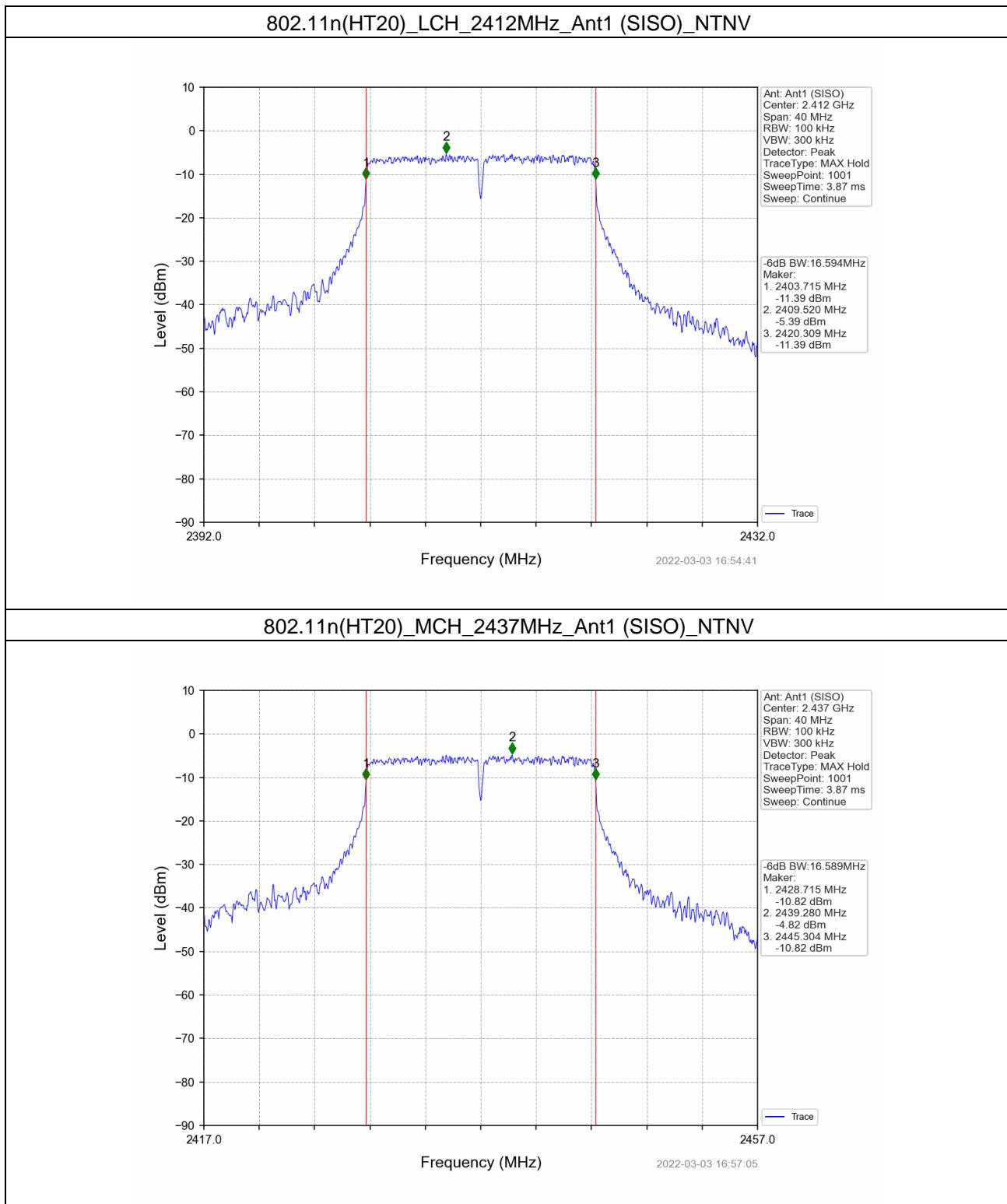
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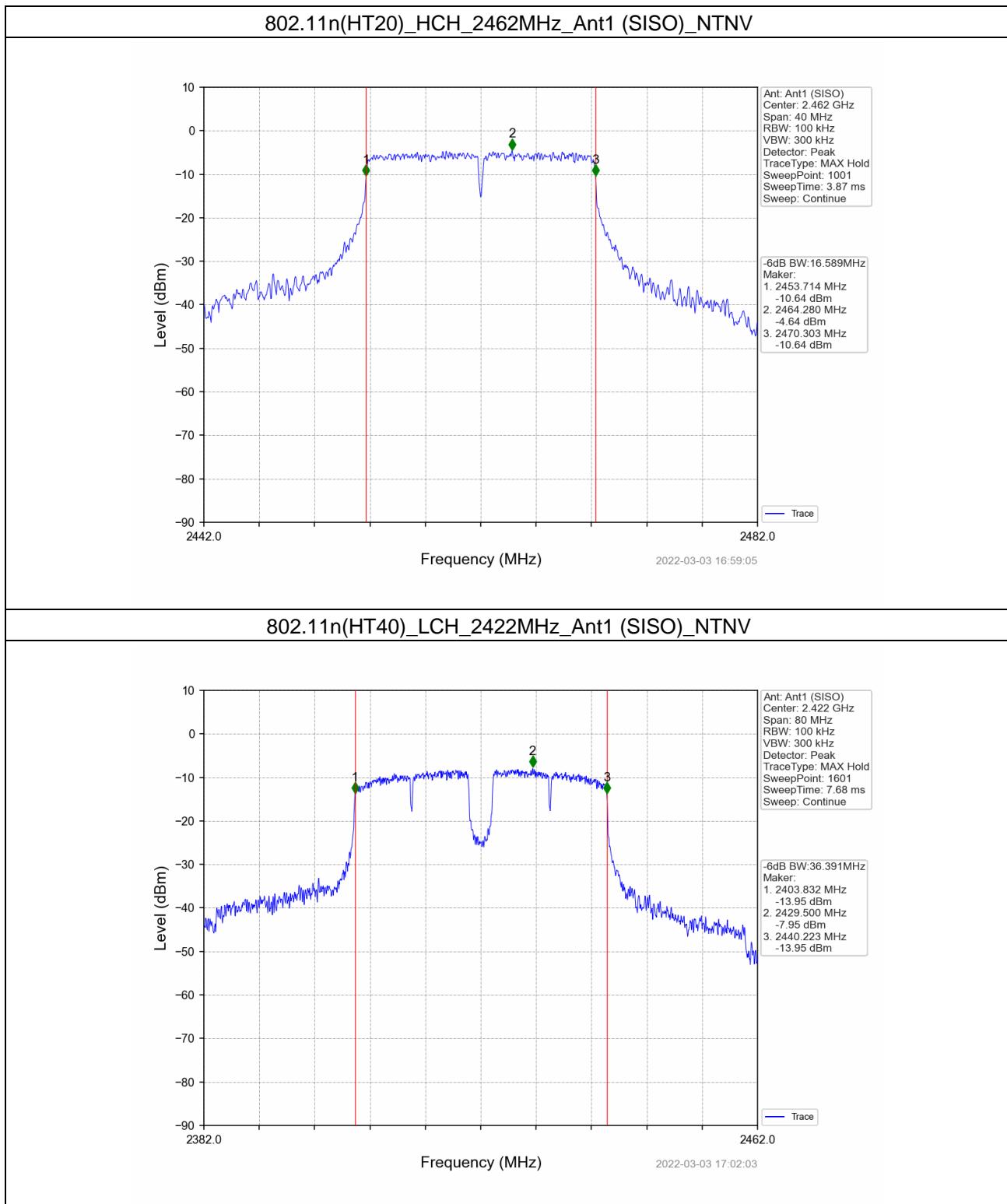


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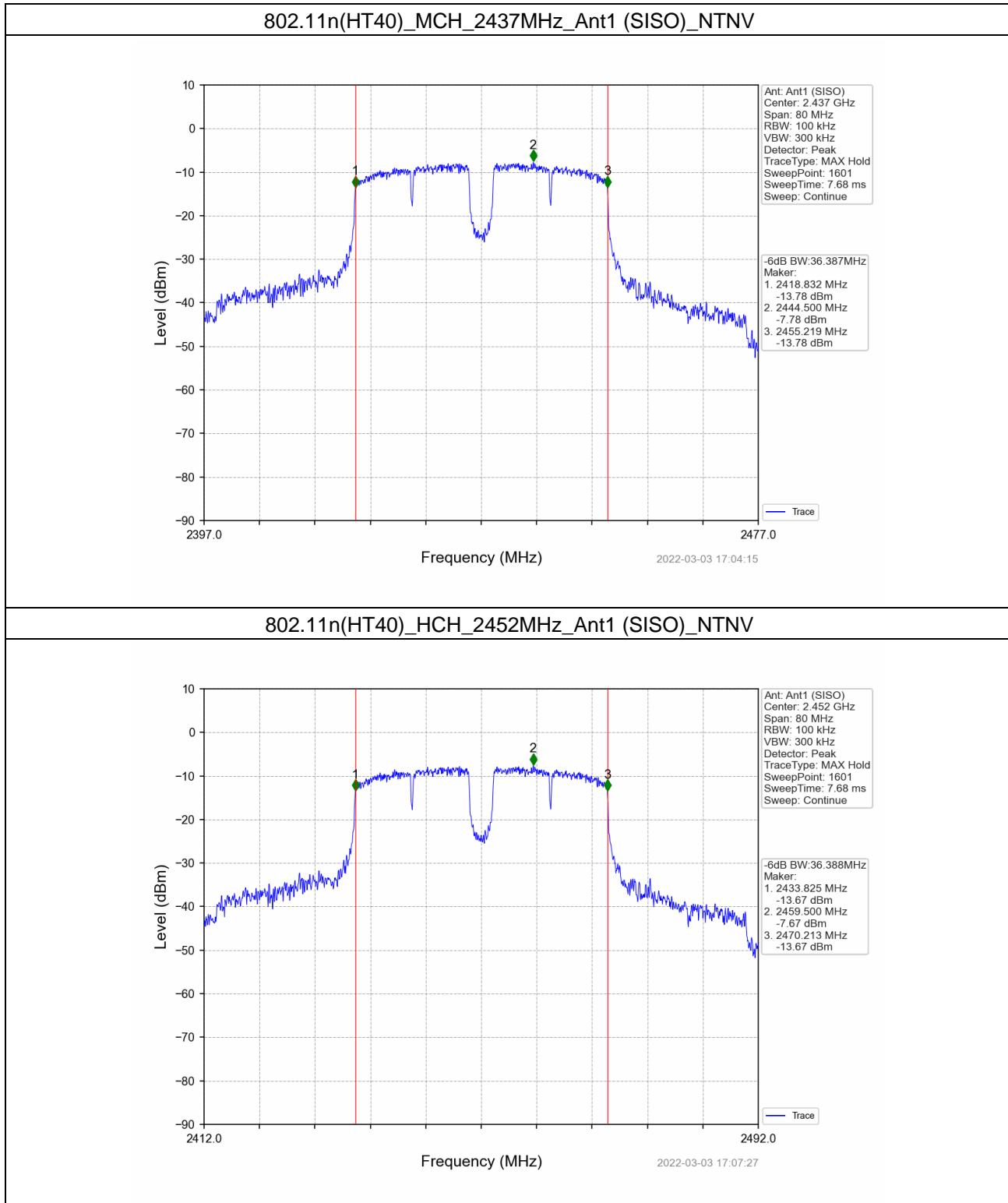


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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	11.46	<=30	Pass
		2437	11.61	<=30	Pass
		2462	12.03	<=30	Pass
802.11g	SISO	2412	8.82	<=30	Pass
		2437	9.08	<=30	Pass
		2462	9.49	<=30	Pass
802.11n (HT20)	SISO	2412	8.92	<=30	Pass
		2437	9.01	<=30	Pass
		2462	9.66	<=30	Pass
802.11n (HT40)	SISO	2422	8.18	<=30	Pass
		2437	8.31	<=30	Pass
		2452	8.52	<=30	Pass

Note1: Antenna Gain: Ant1: 1.00dBi;

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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	-18.41	<=8	Pass
		2437	-17.87	<=8	Pass
		2462	-17.75	<=8	Pass
802.11g	SISO	2412	-19.71	<=8	Pass
		2437	-18.94	<=8	Pass
		2462	-18.86	<=8	Pass
802.11n (HT20)	SISO	2412	-19.42	<=8	Pass
		2437	-19.25	<=8	Pass
		2462	-18.72	<=8	Pass
802.11n (HT40)	SISO	2422	-22.41	<=8	Pass
		2437	-22.11	<=8	Pass
		2452	-22.03	<=8	Pass

Note1: Antenna Gain: Ant1: 1.00dBi;

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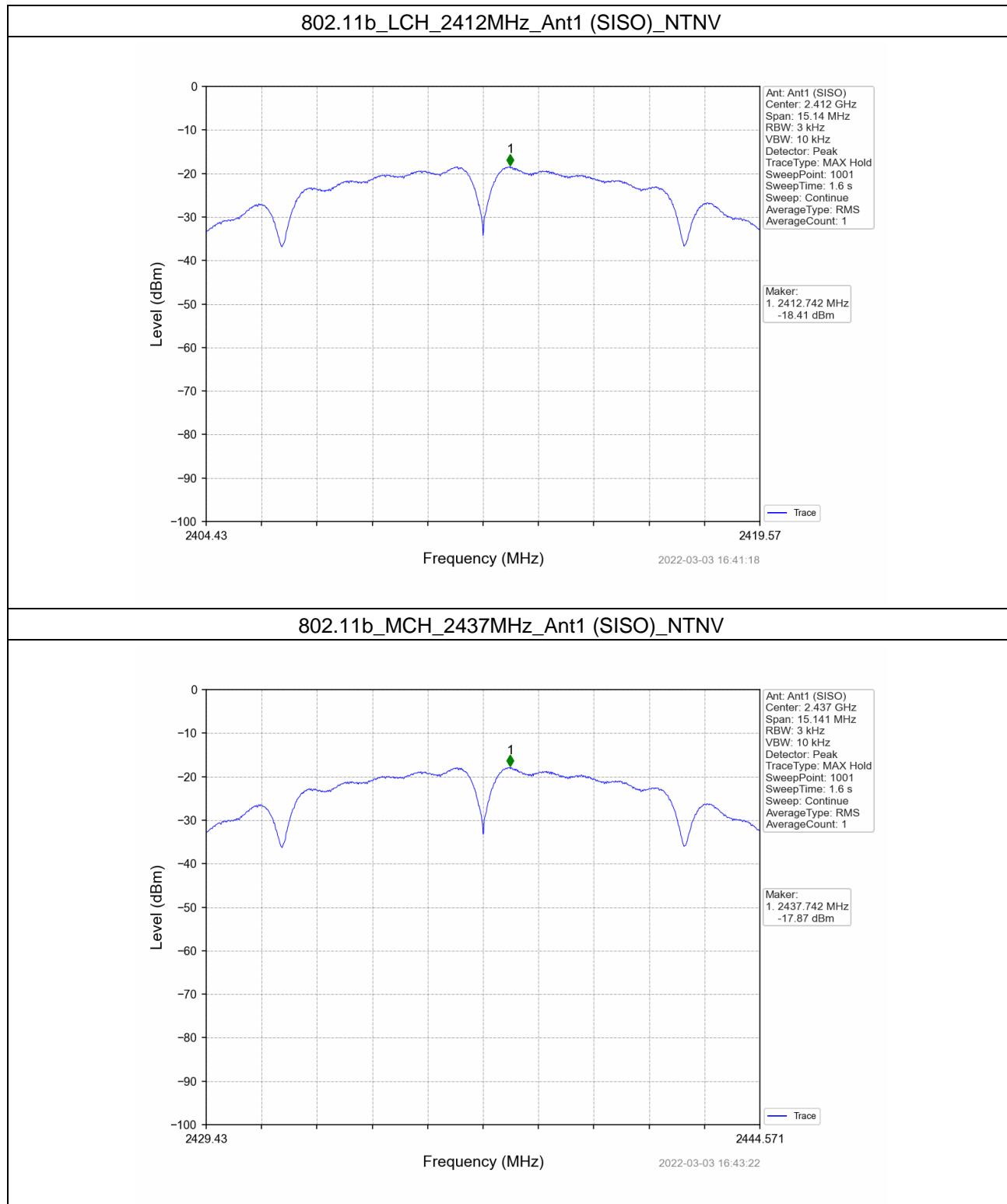
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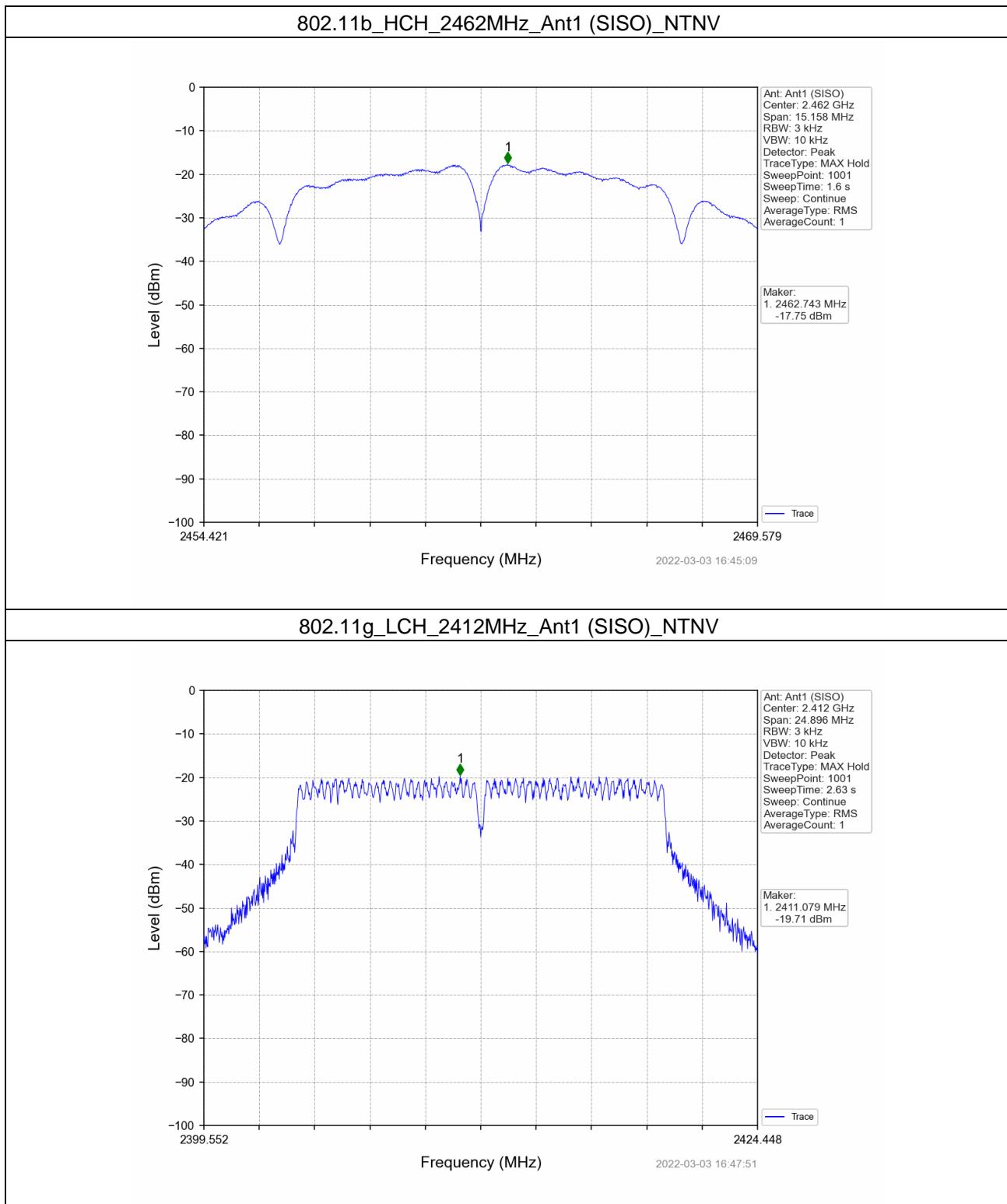
**4.1.2 Test Graph**

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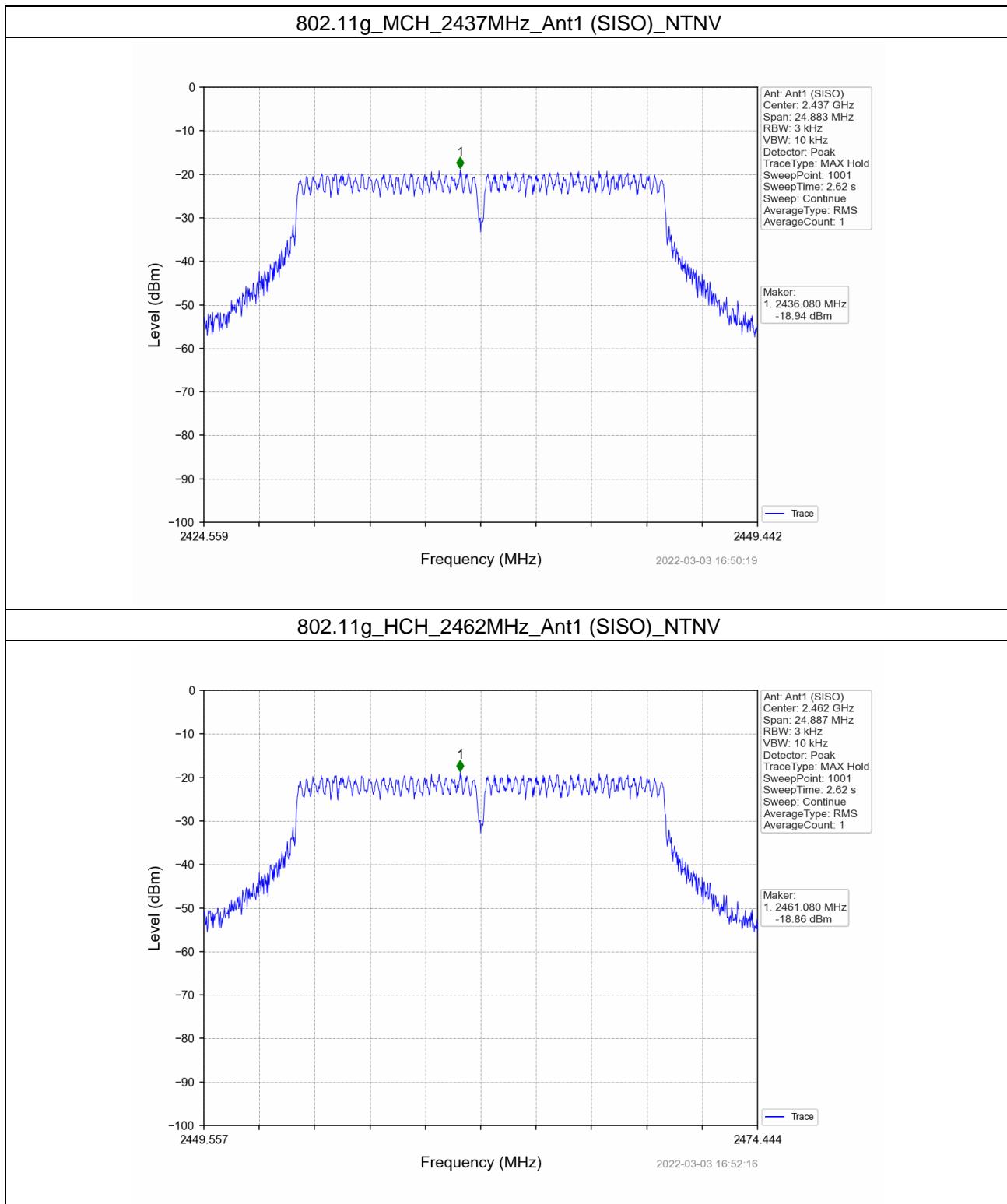


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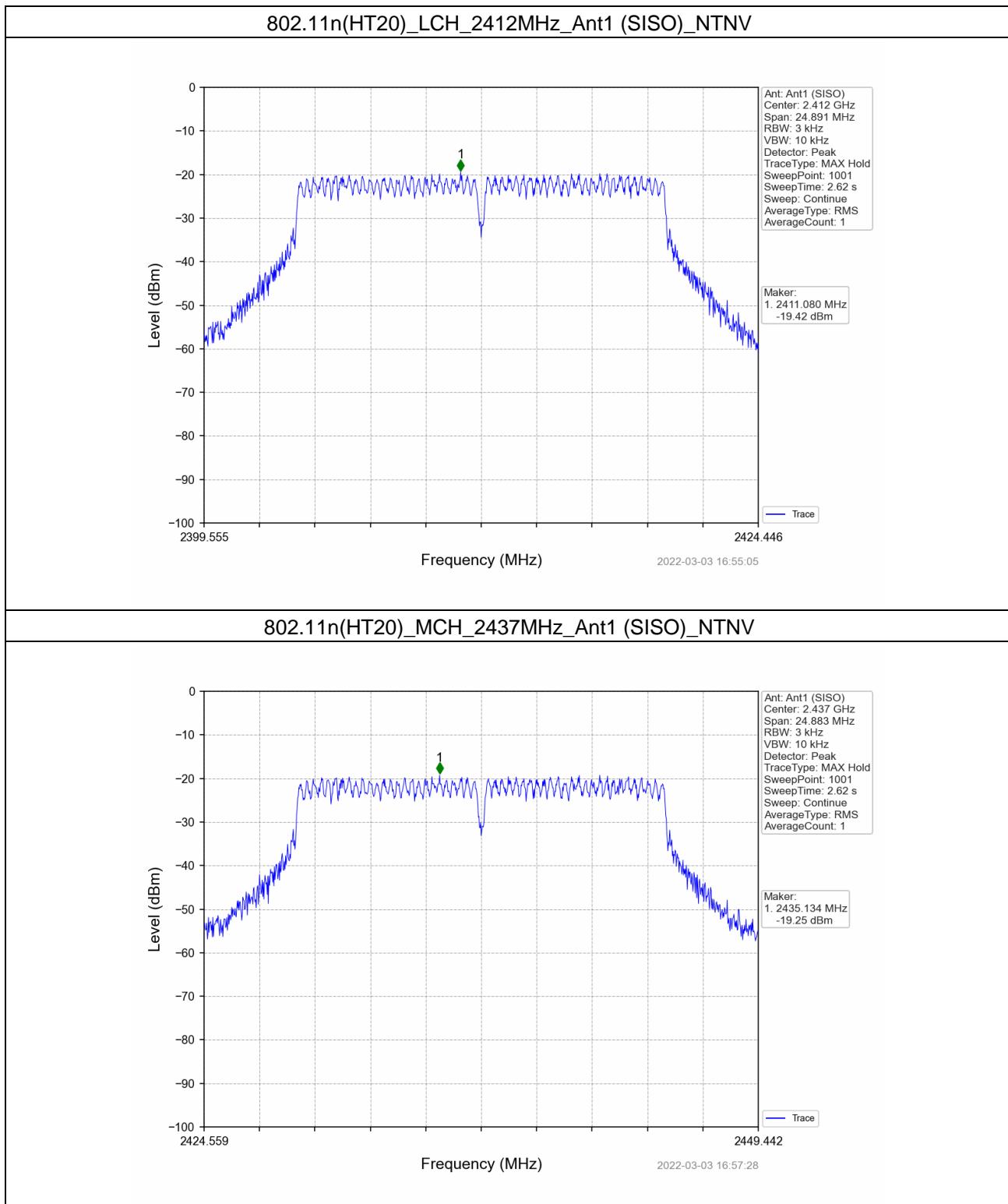


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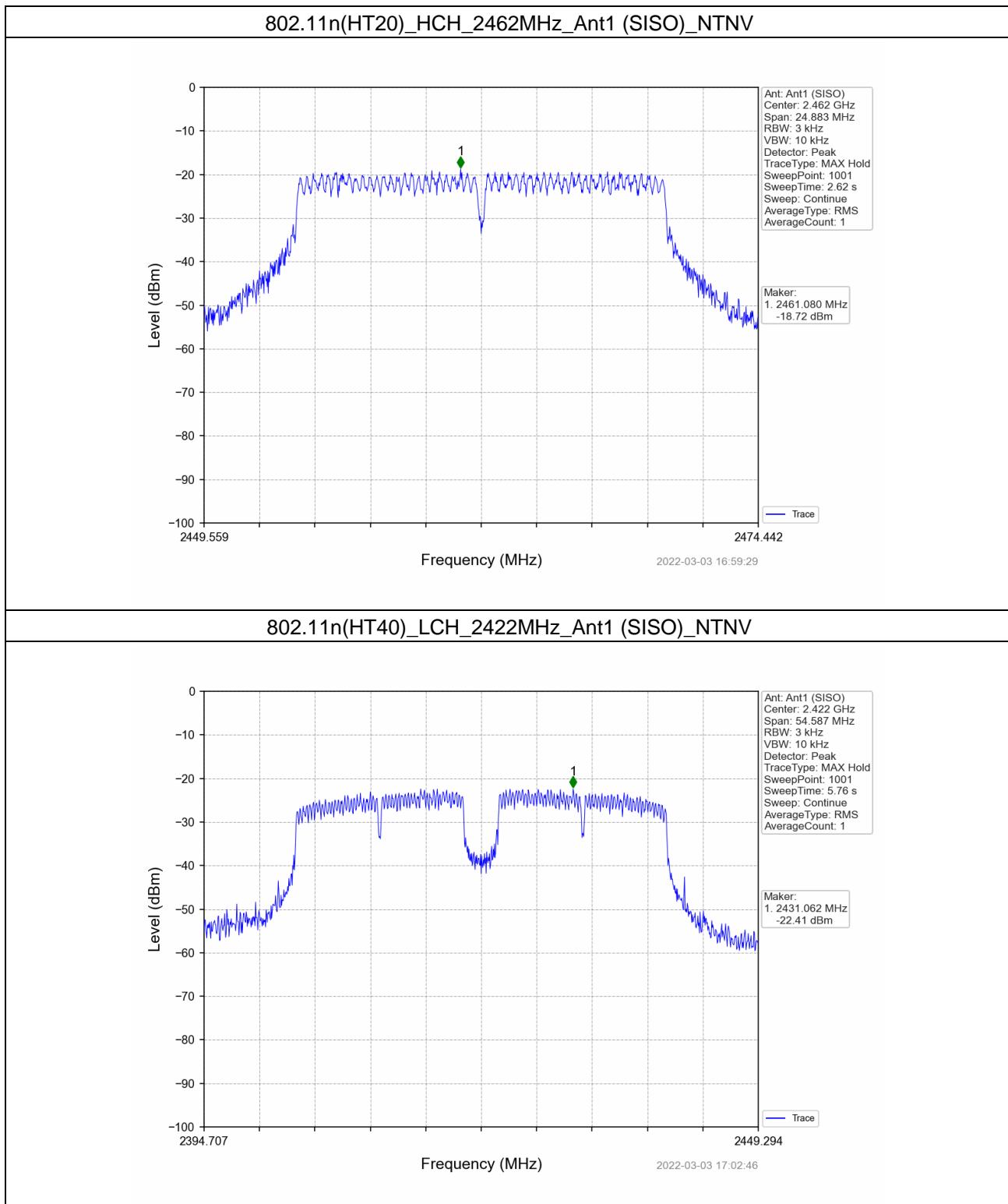
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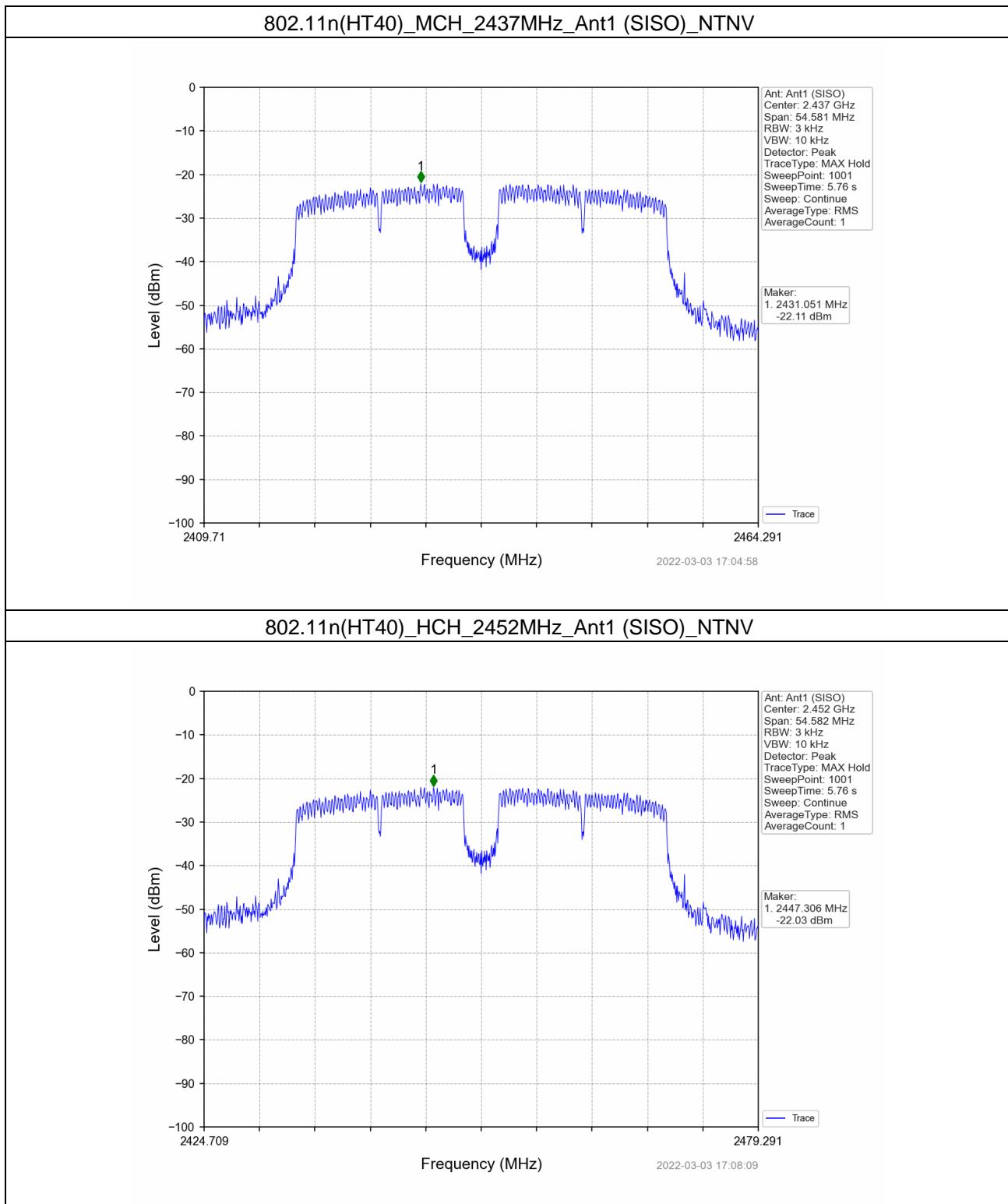


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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Ref

#### 5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	1.39
		2437	1	1.93
		2462	1	2.02
802.11g	SISO	2412	1	-5.48
		2437	1	-4.87
		2462	1	-4.70
802.11n (HT20)	SISO	2412	1	-5.57
		2437	1	-4.88
		2462	1	-4.67
802.11n (HT40)	SISO	2422	1	-7.93
		2437	1	-7.78
		2452	1	-7.66

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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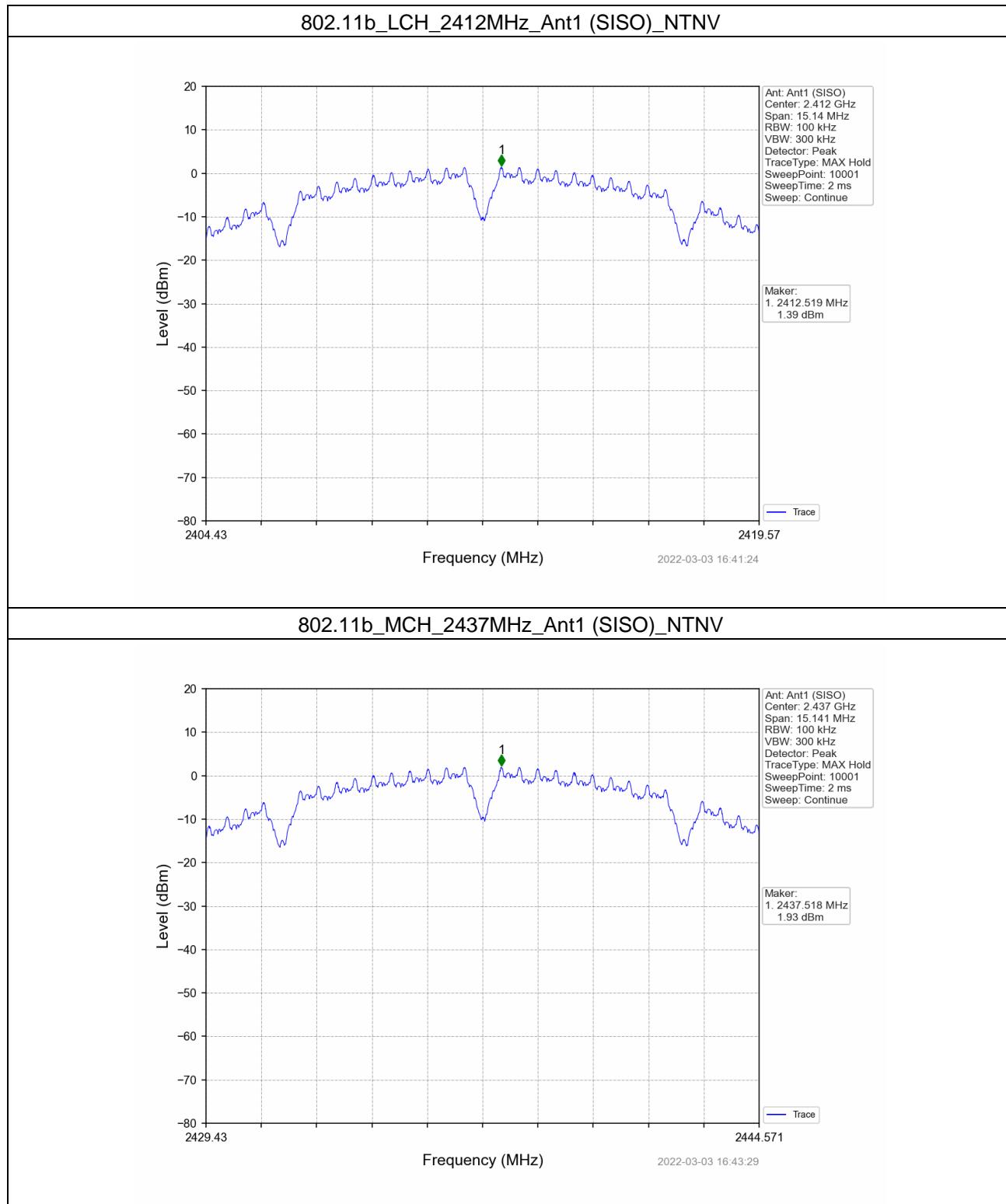


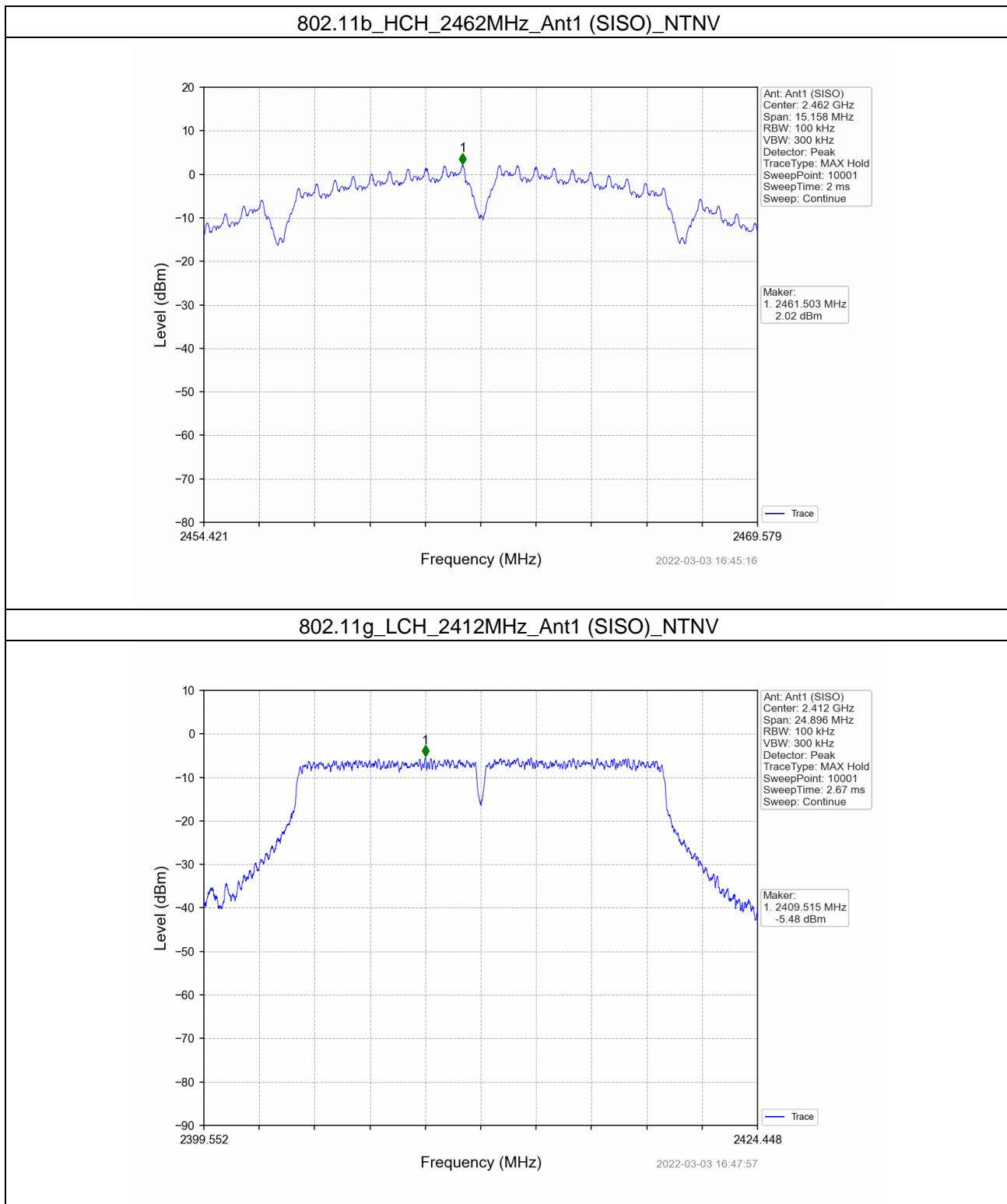
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### 5.1.2 Test Graph



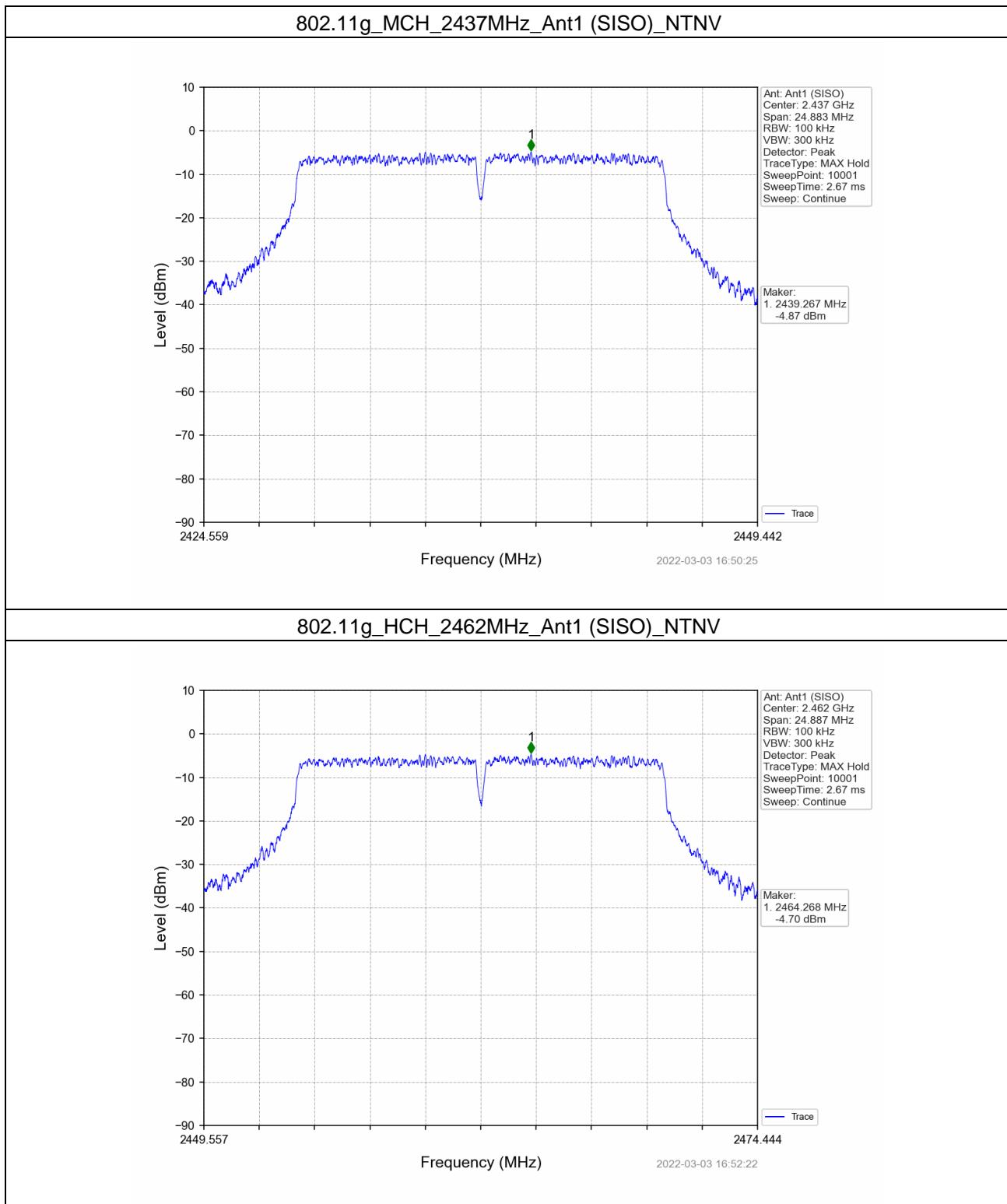


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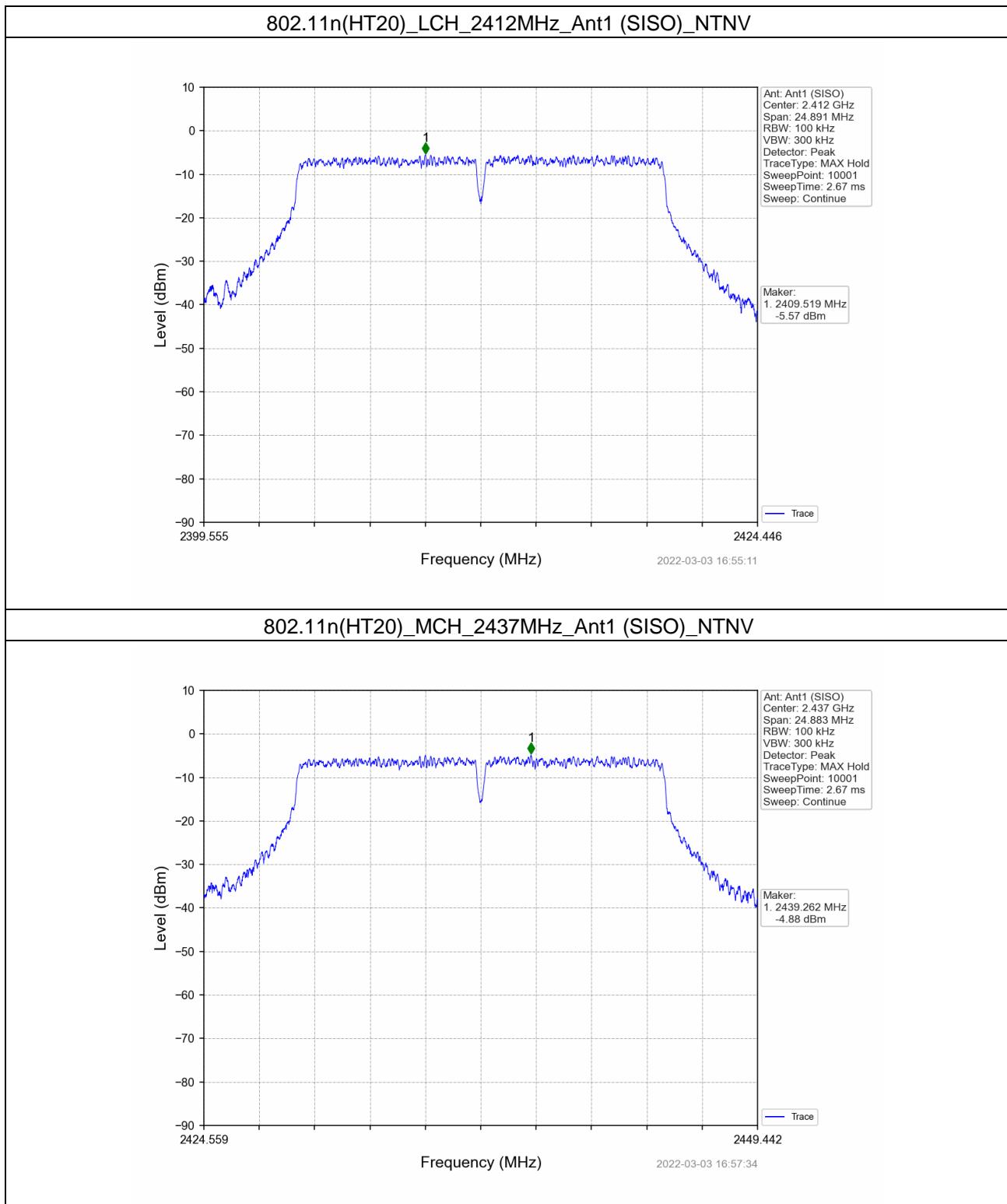


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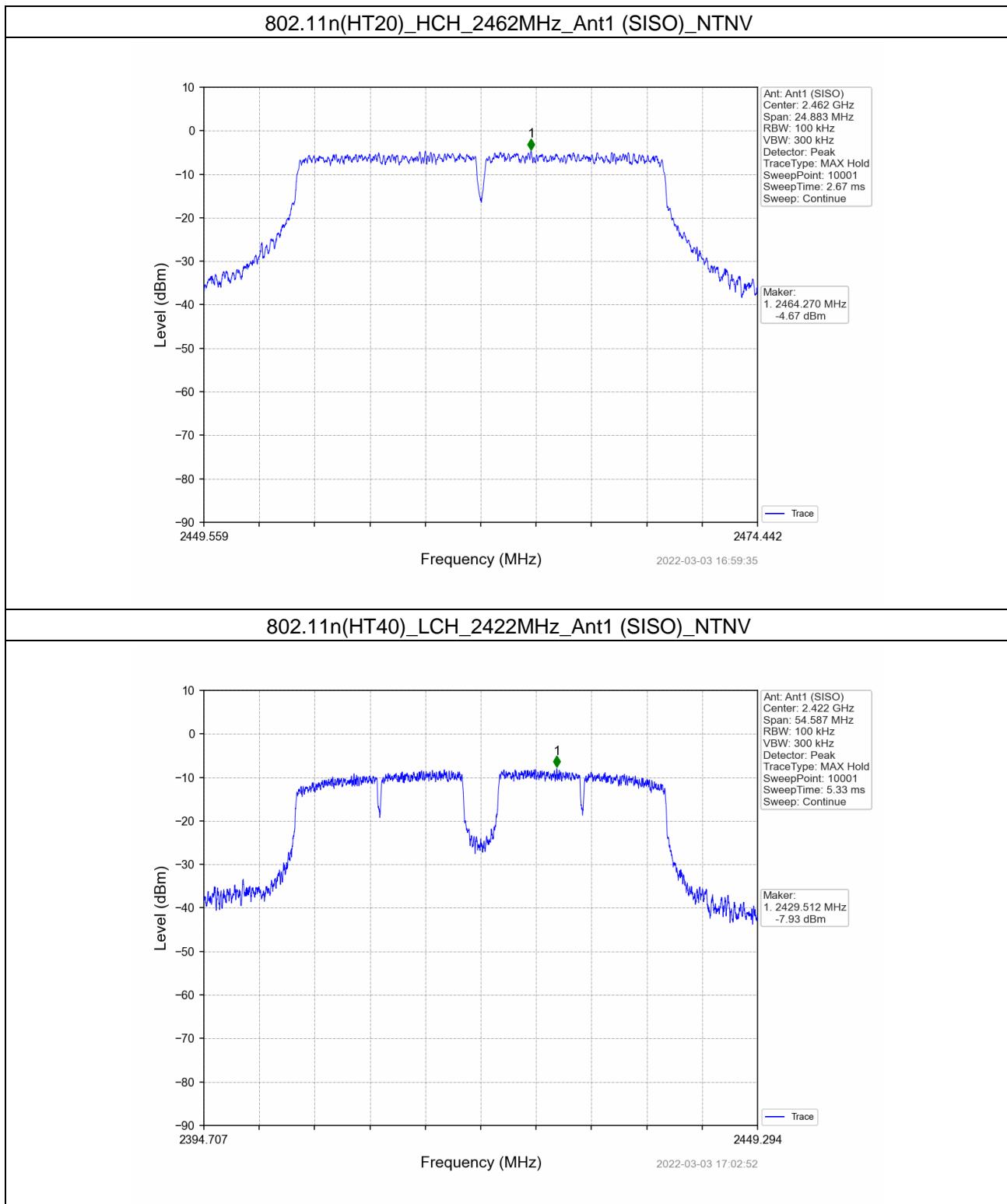


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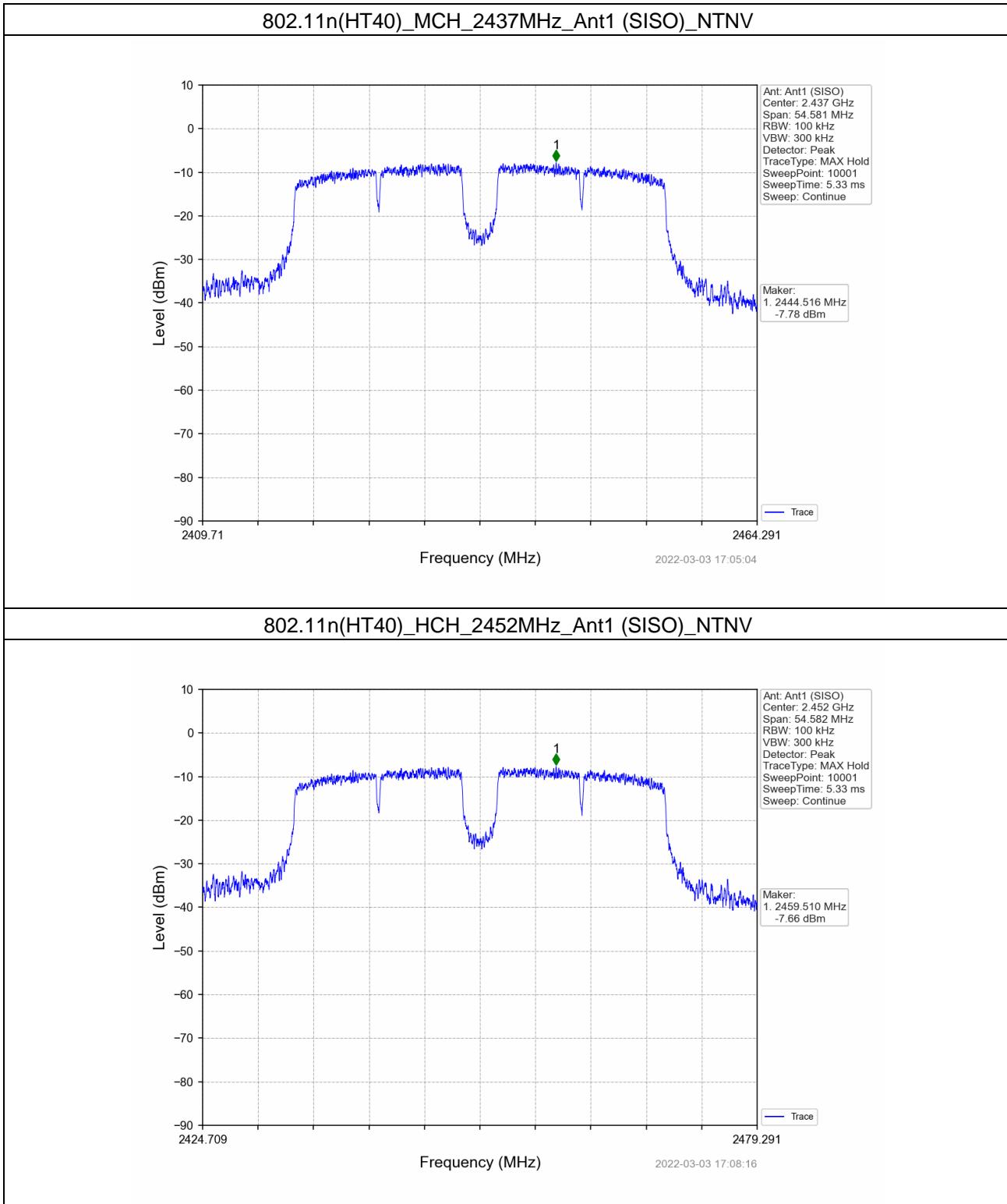
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**5.2 CSE****5.2.1 Test Result**

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	2.02	-17.98	Pass
		2437	1	2.02	-17.98	Pass
		2462	1	2.02	-17.98	Pass
802.11g	SISO	2412	1	-4.70	-24.70	Pass
		2437	1	-4.70	-24.70	Pass
		2462	1	-4.70	-24.70	Pass
802.11n (HT20)	SISO	2412	1	-4.67	-24.67	Pass
		2437	1	-4.67	-24.67	Pass
		2462	1	-4.67	-24.67	Pass
802.11n (HT40)	SISO	2422	1	-7.66	-27.66	Pass
		2437	1	-7.66	-27.66	Pass
		2452	1	-7.66	-27.66	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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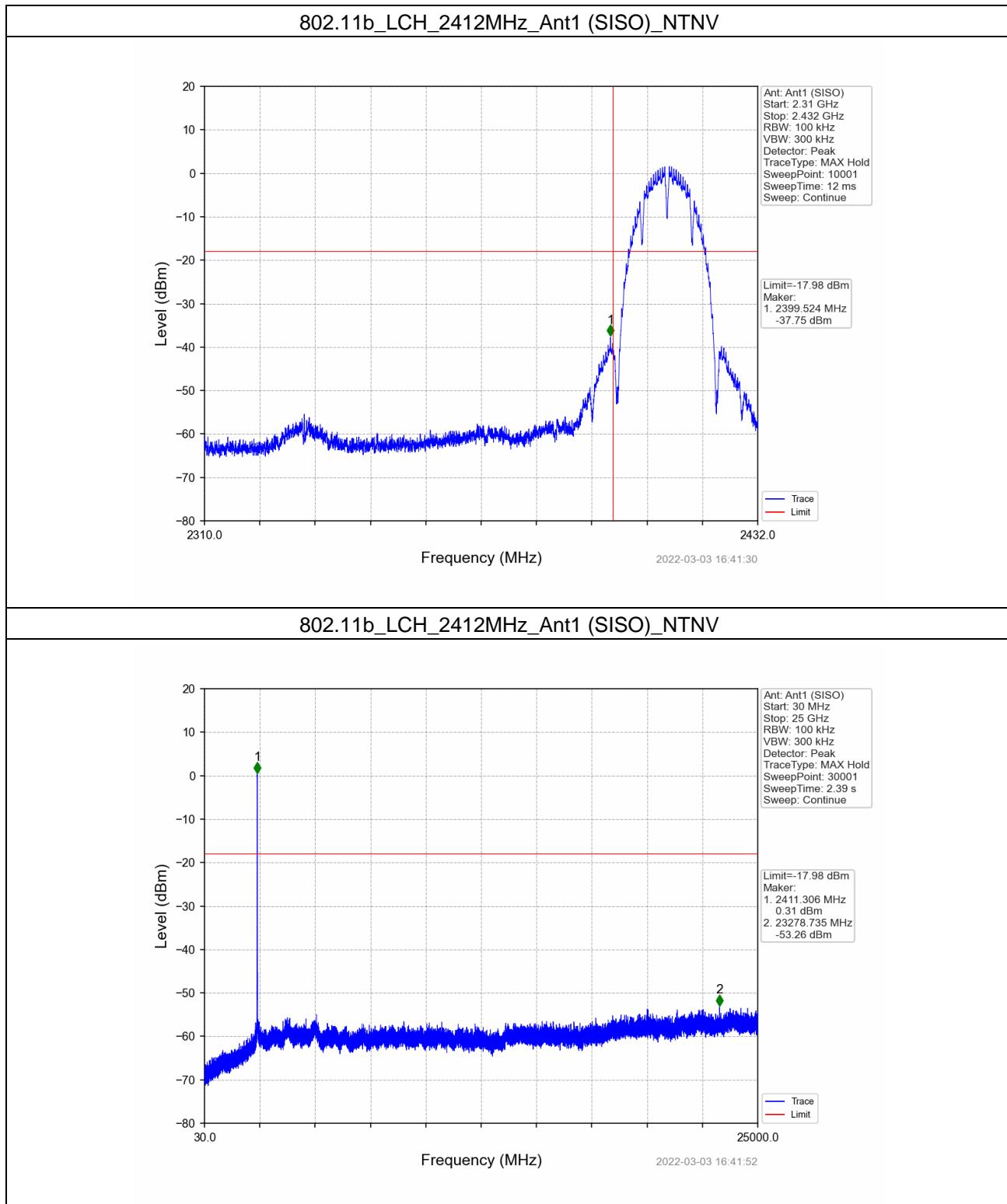
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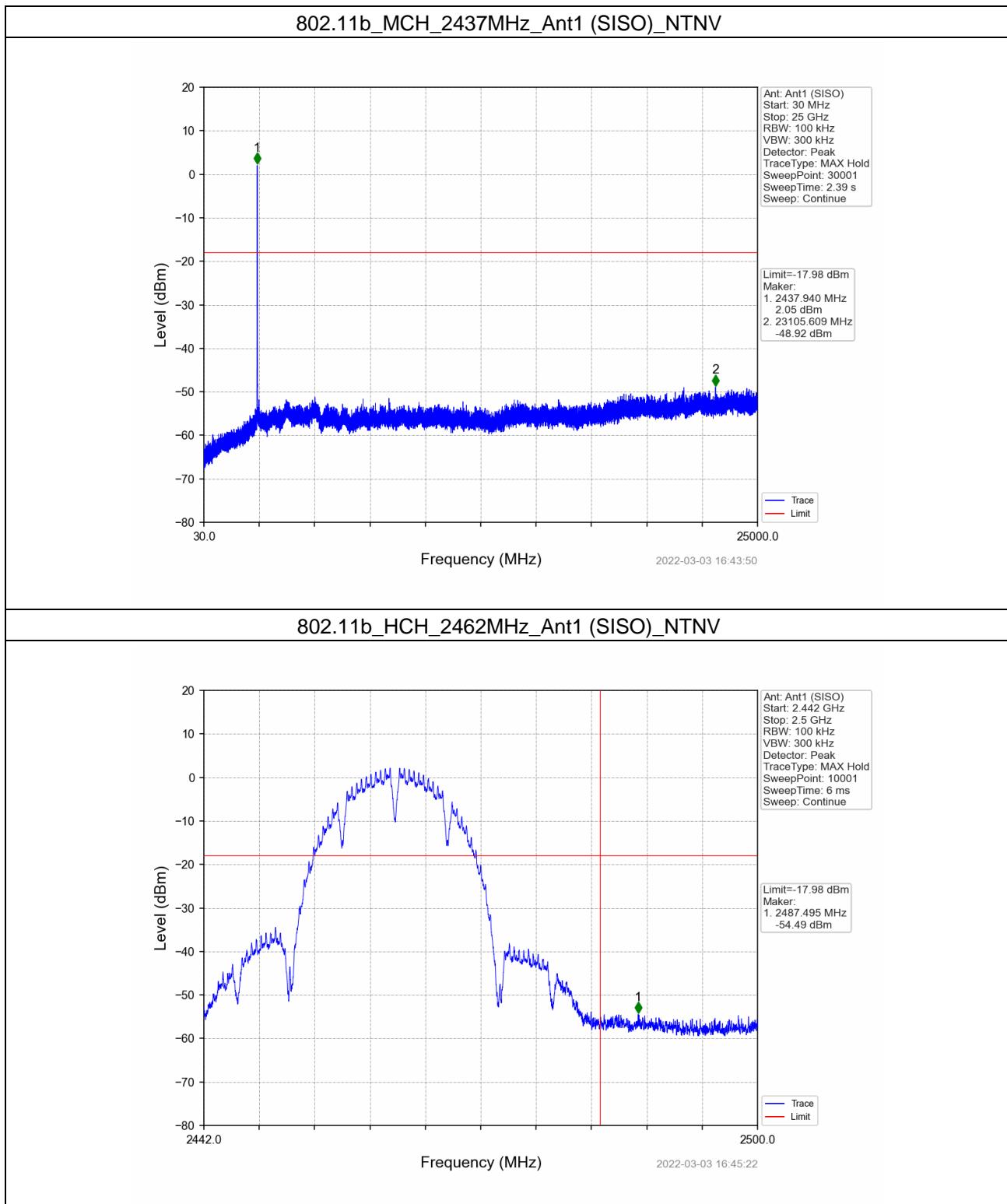
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**5.2.2 Test Graph**

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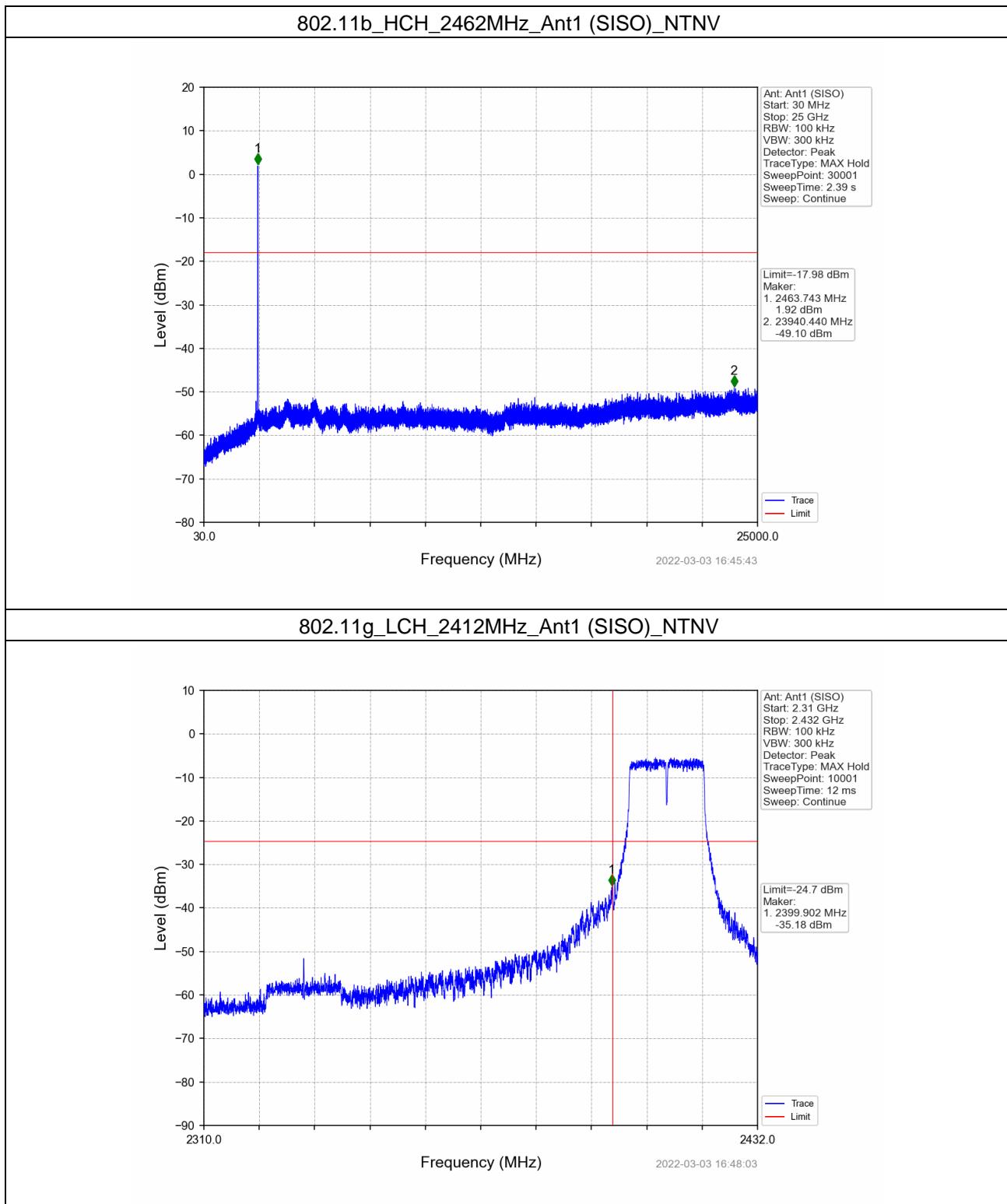
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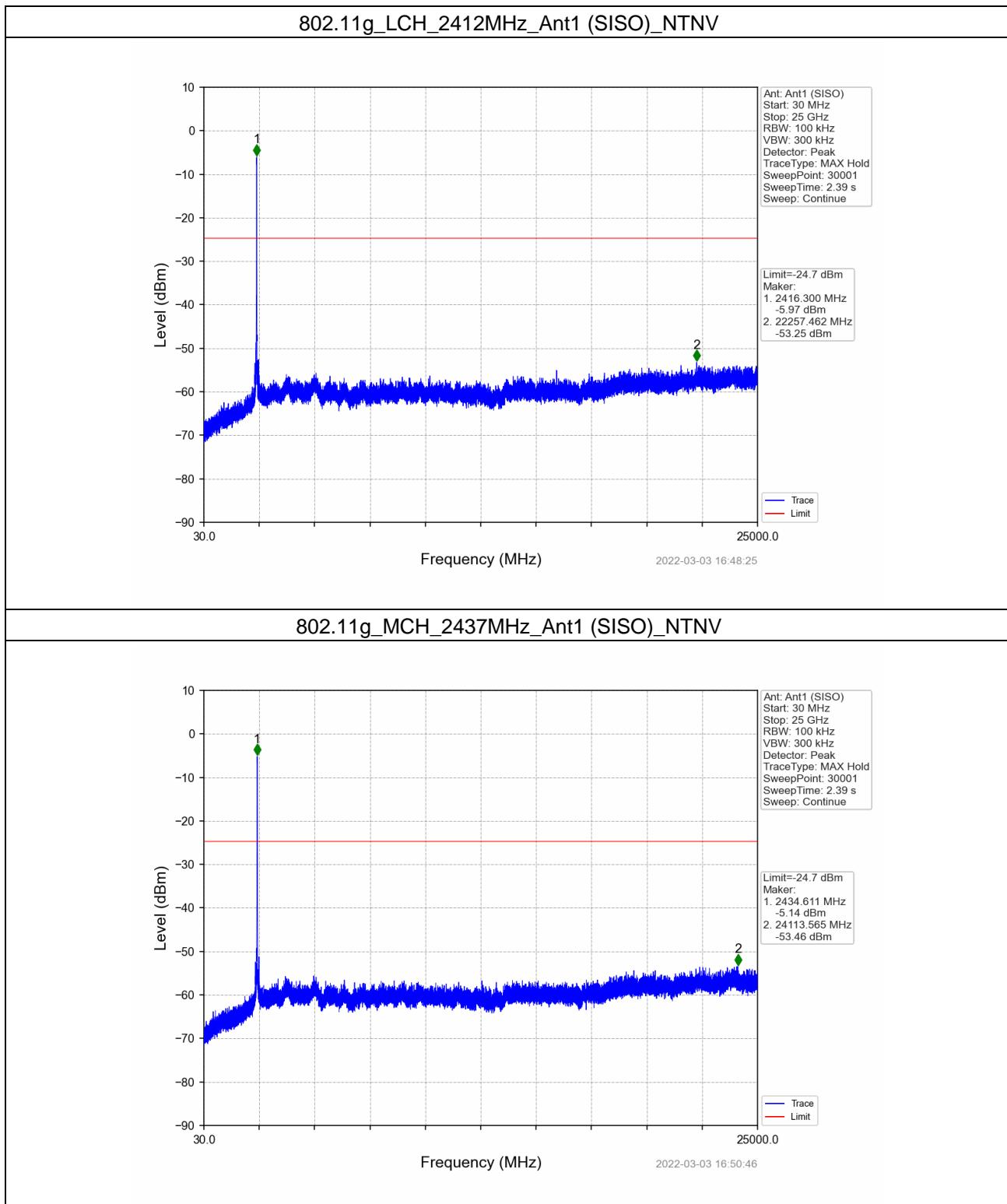


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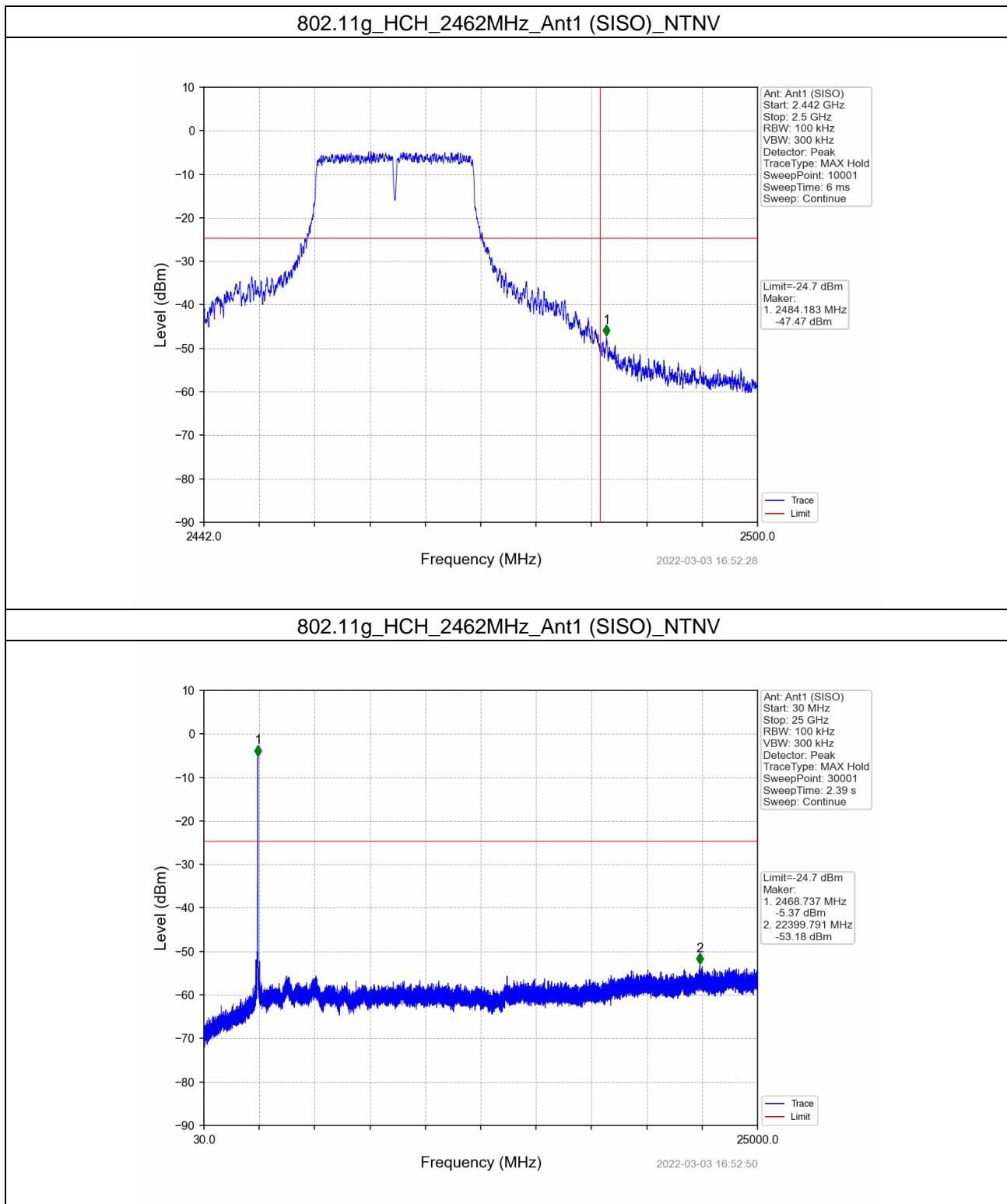
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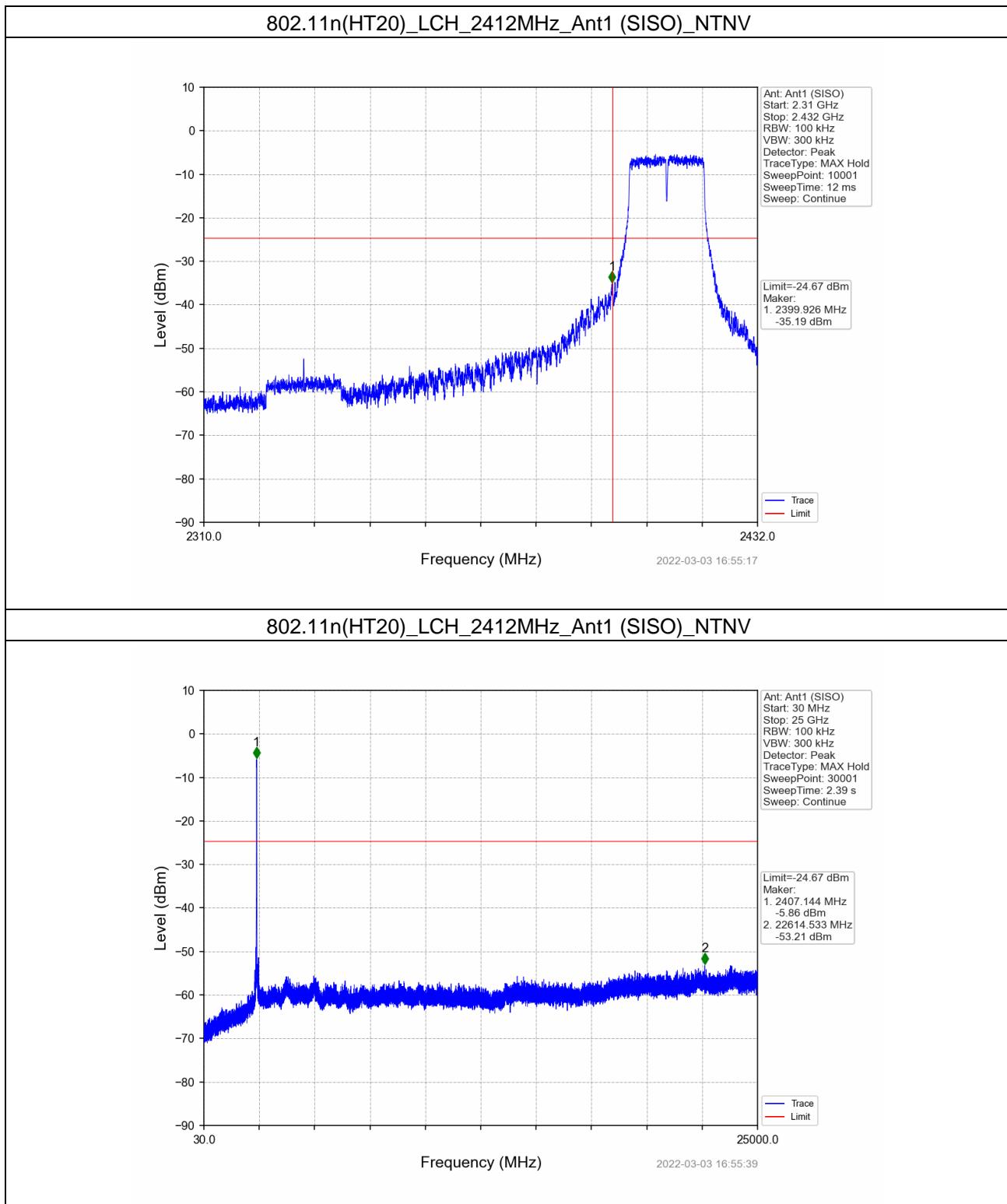


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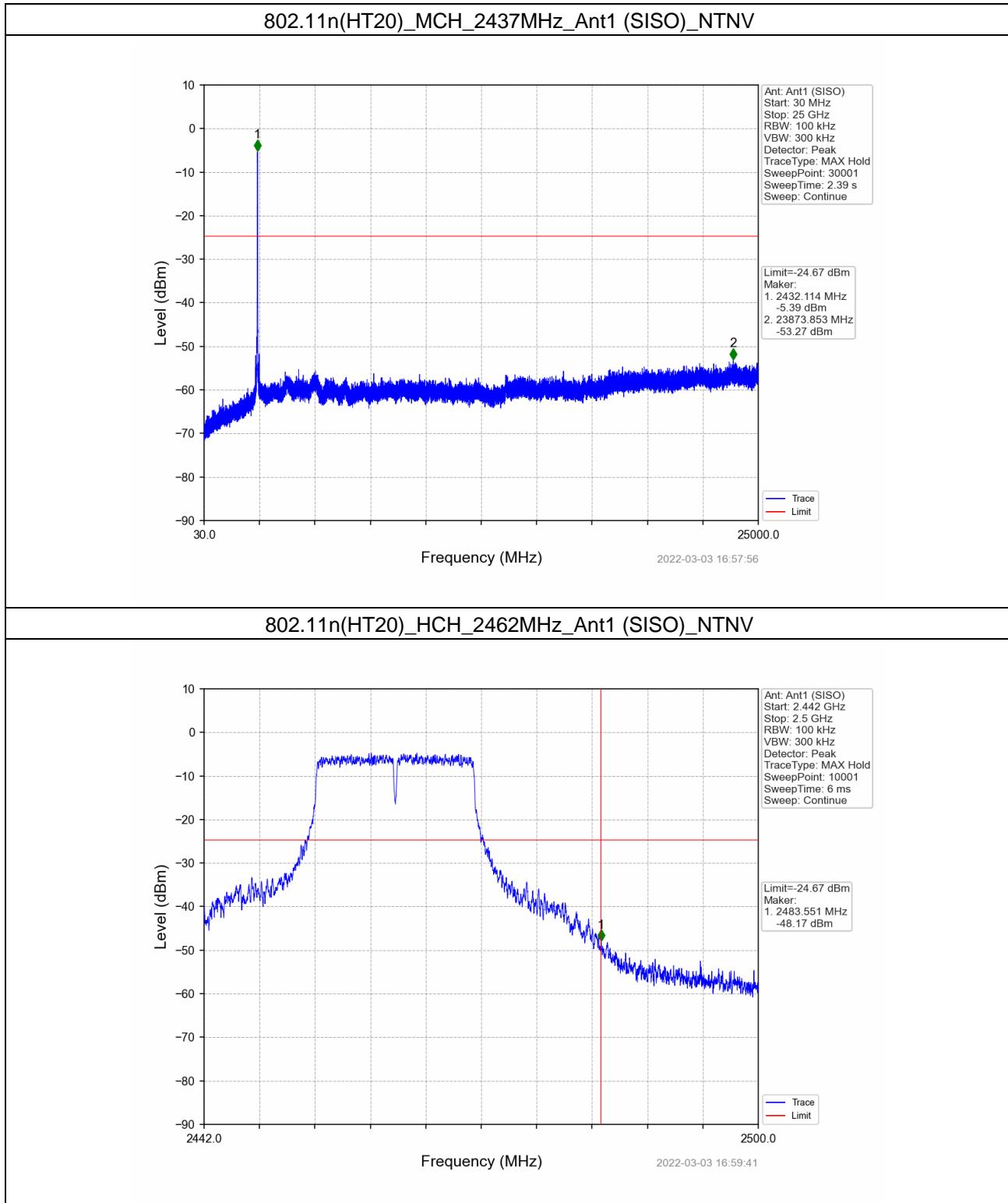


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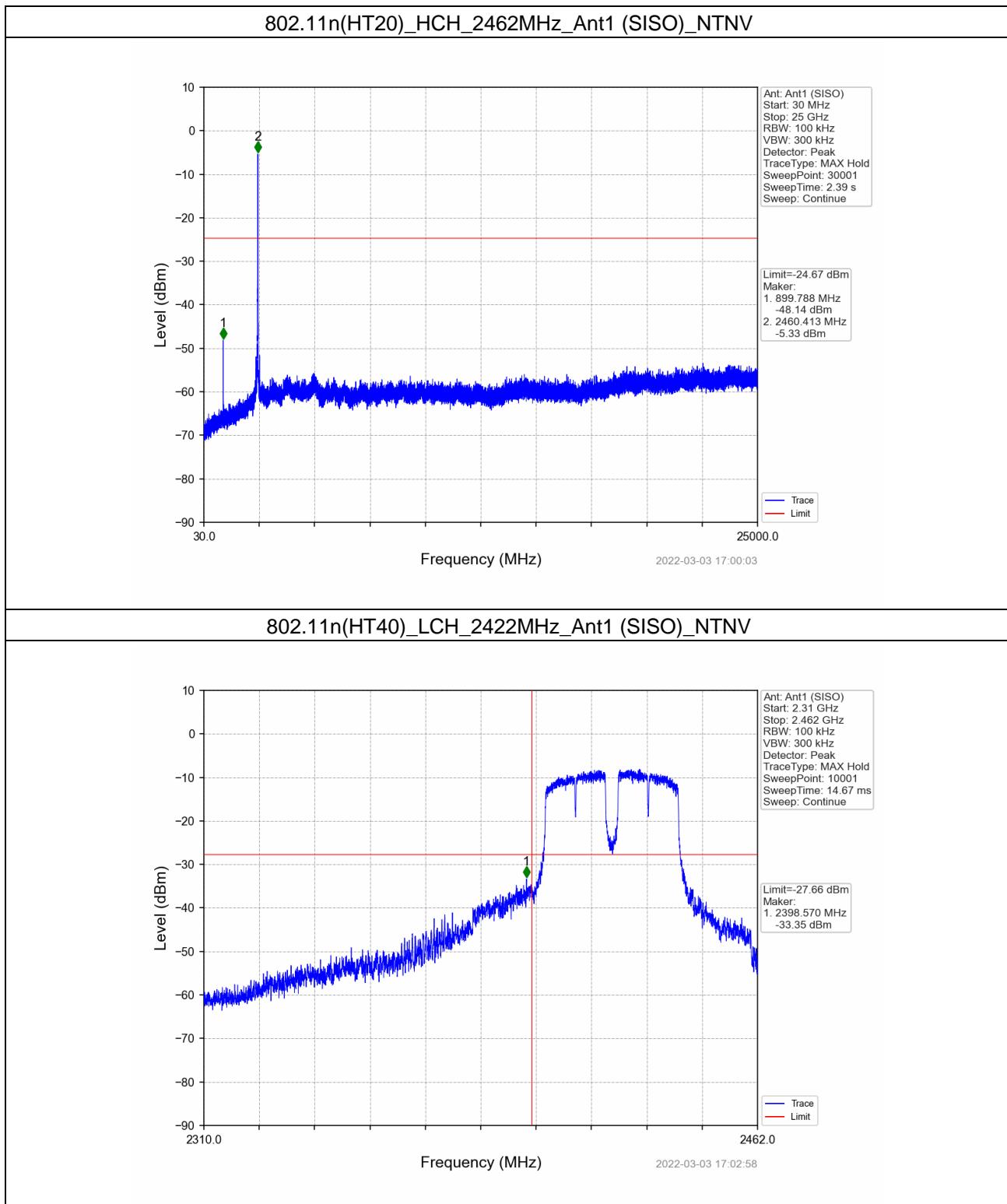


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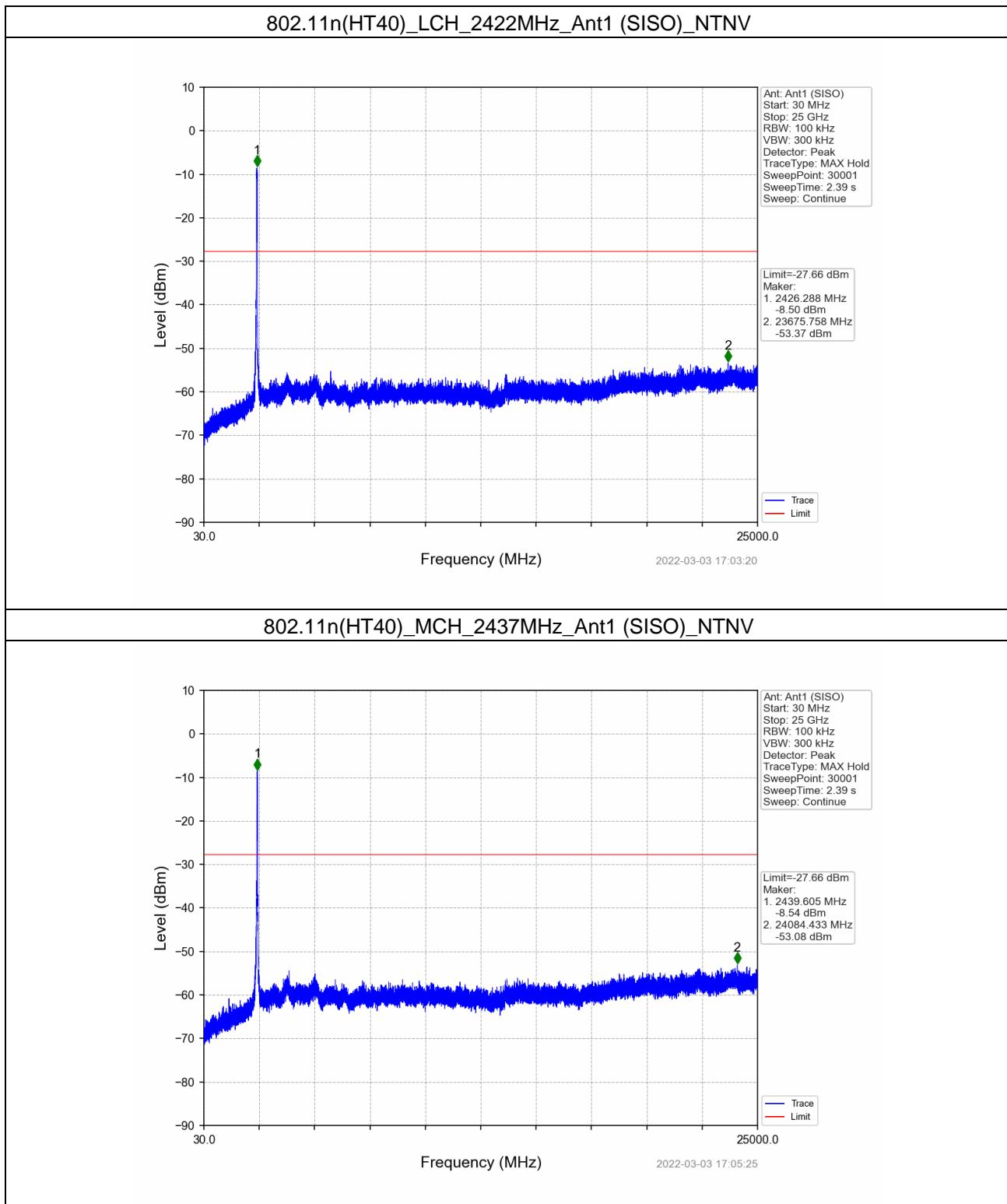


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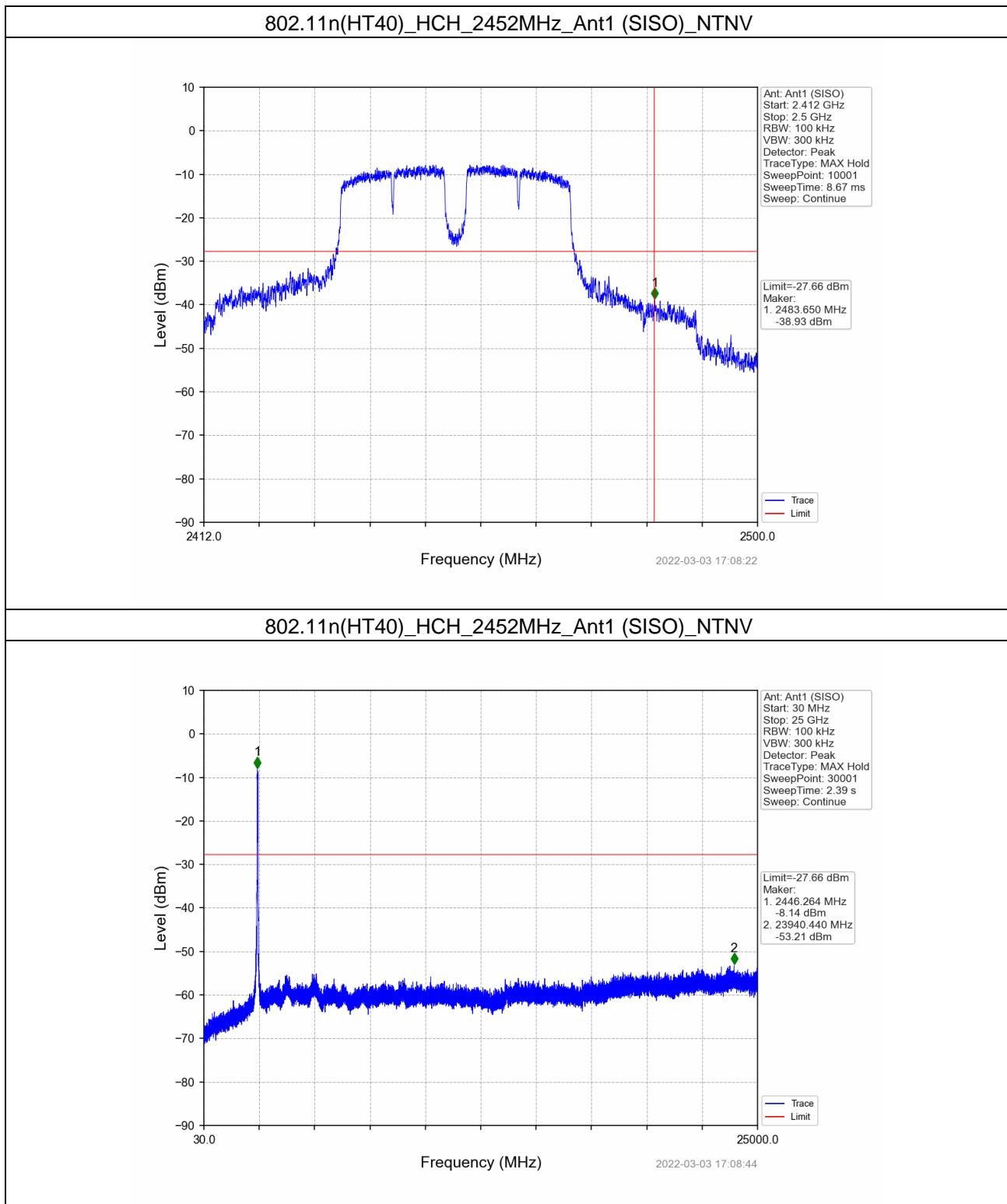


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