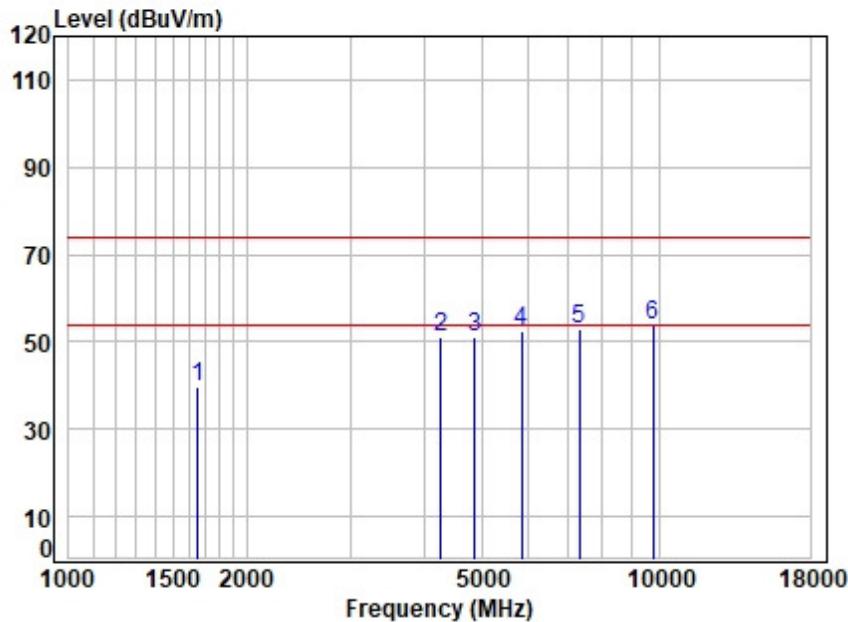


**Compliance Certification Services (Kunshan) Inc. Shenzhen Branch**

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Site : chamber

Condition: 3m VERTICAL

Job No : 00416AT/00417AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Over Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1653.550	4.10	24.91	52.94	63.84	39.91	74.00	-34.09	peak
2 4267.237	7.48	29.88	52.89	66.68	51.15	74.00	-22.85	peak
3 4874.000	8.10	31.11	53.07	64.79	50.93	74.00	-23.07	peak
4 5847.517	7.83	32.46	52.84	65.09	52.54	74.00	-21.46	peak
5 7311.000	8.34	36.18	53.53	62.07	53.06	74.00	-20.94	peak
6 9748.000	11.30	37.84	53.44	58.30	54.00	74.00	-20.00	peak

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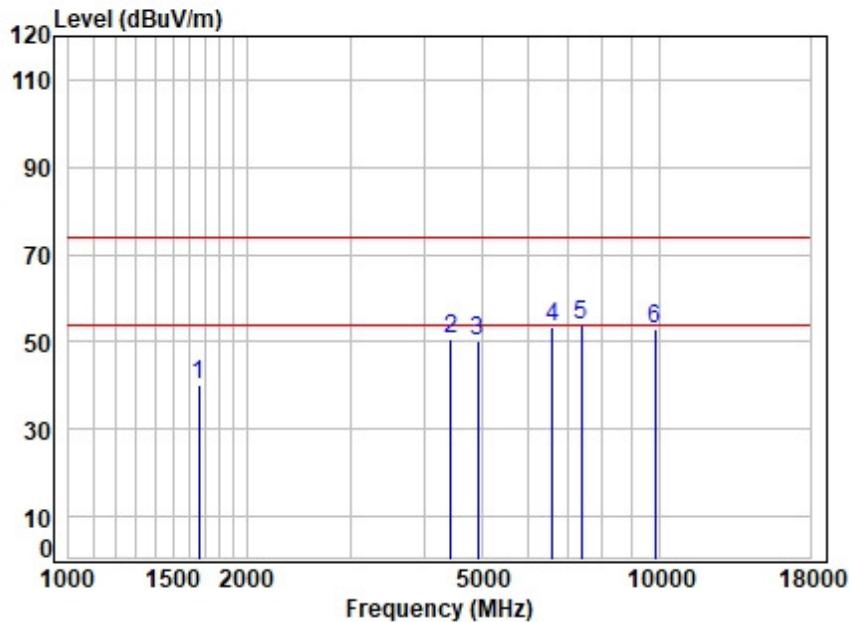
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Site : chamber

Condition: 3m HORIZONTAL

Job No : 00416AT/00417AT

Mode : 2462 TX RSE

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1663.137	4.12	24.93	52.94	64.07	40.18	74.00	-33.82 peak
2	4443.453	7.47	30.12	52.94	66.18	50.83	74.00	-23.17 peak
3	4924.000	8.18	31.23	53.08	64.07	50.40	74.00	-23.60 peak
4	6583.209	7.78	34.81	53.22	64.20	53.57	74.00	-20.43 peak
5	7386.000	8.38	36.27	53.54	62.54	53.65	74.00	-20.35 peak
6	9848.000	11.23	38.07	53.35	57.10	53.05	74.00	-20.95 peak

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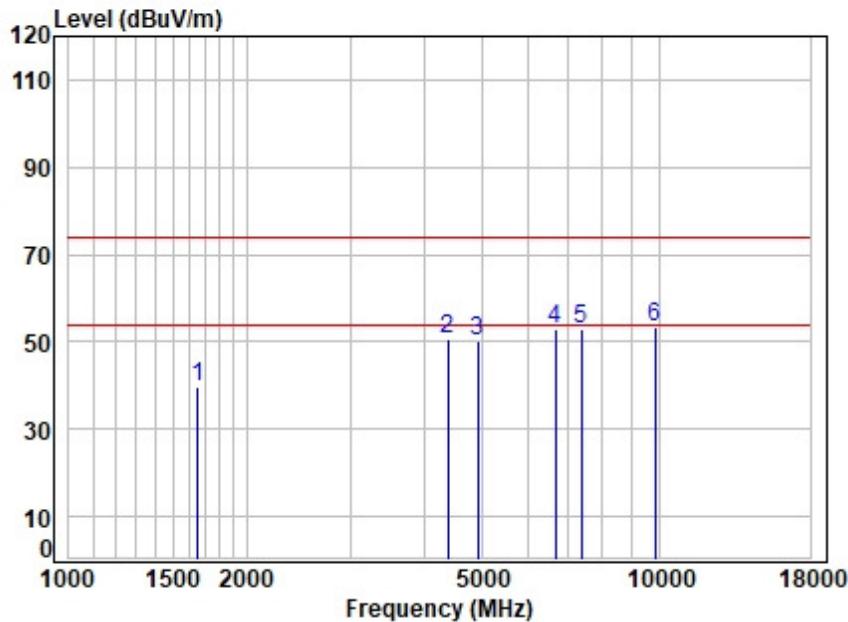
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Site : chamber

Condition: 3m VERTICAL

Job No : 00416AT/00417AT

Mode : 2462 TX RSE

: 2.4G WIFI 11N20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Remark
				dB	dB/m	dB	dBuV	dBuV/m
1 1653.550	4.10	24.91	52.94	63.50	39.57	74.00	-34.43	peak
2 4392.376	7.47	30.06	52.93	65.92	50.52	74.00	-23.48	peak
3 4924.000	8.18	31.23	53.08	63.64	49.97	74.00	-24.03	peak
4 6659.763	7.86	34.99	53.27	63.27	52.85	74.00	-21.15	peak
5 7386.000	8.38	36.27	53.54	61.91	53.02	74.00	-20.98	peak
6 9848.000	11.23	38.07	53.35	57.39	53.34	74.00	-20.66	peak

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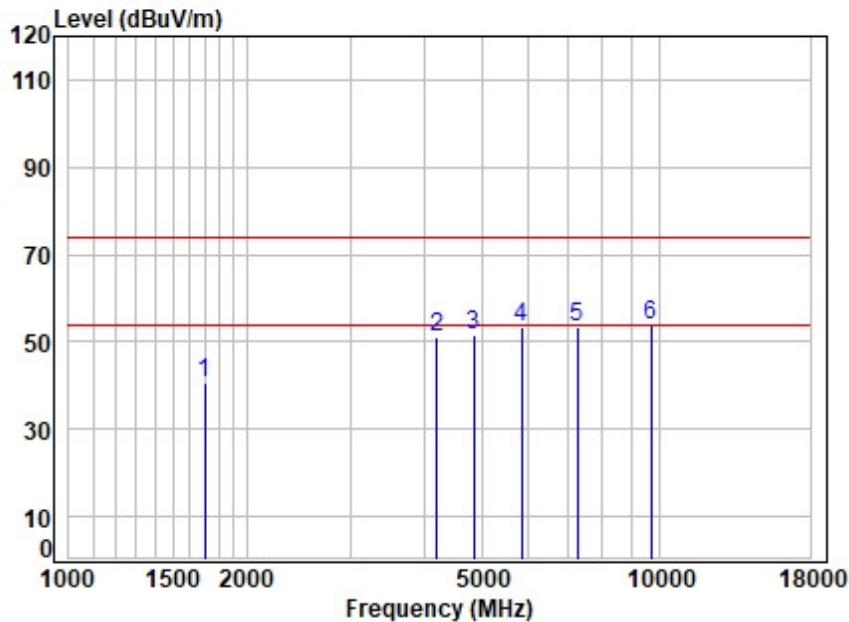
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Site : chamber

Condition: 3m HORIZONTAL

Job No : 00416AT/00417AT

Mode : 2422 TX RSE

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1702.042	4.20	25.01	52.96	64.37	40.62	74.00	-33.38 peak
2	4206.011	7.48	29.80	52.87	66.88	51.29	74.00	-22.71 peak
3	4844.000	8.05	31.04	53.06	65.47	51.50	74.00	-22.50 peak
4	5847.517	7.83	32.46	52.84	65.84	53.29	74.00	-20.71 peak
5	7266.000	8.32	36.12	53.53	62.44	53.35	74.00	-20.65 peak
6	9688.000	11.35	37.71	53.50	58.30	53.86	74.00	-20.14 peak

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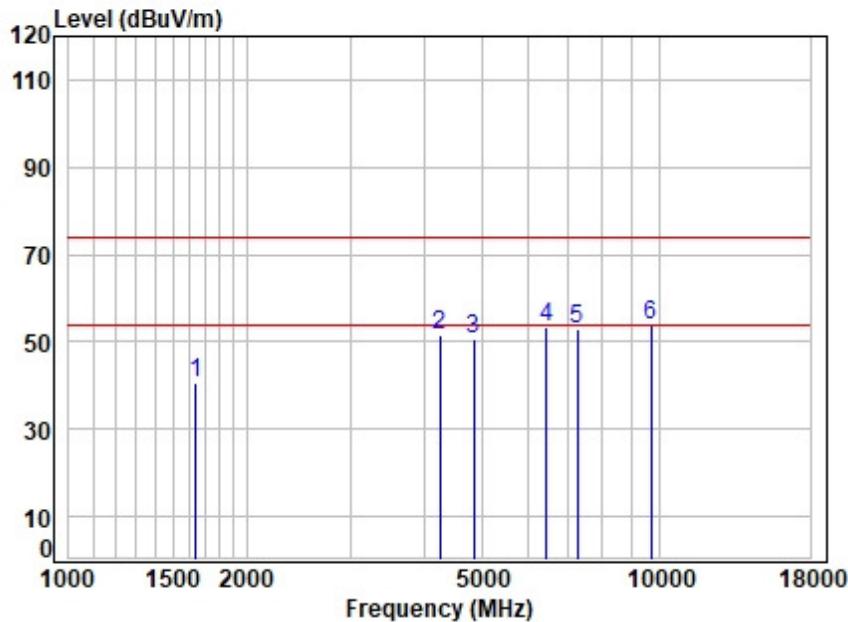
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Site : chamber

Condition: 3m VERTICAL

Job No : 00416AT/00417AT

Mode : 2422 TX RSE

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1644.019	4.08	24.89	52.93	64.48	40.52	74.00	-33.48 peak
2	4242.641	7.48	29.85	52.88	66.92	51.37	74.00	-22.63 peak
3	4844.000	8.05	31.04	53.06	64.66	50.69	74.00	-23.31 peak
4	6451.353	7.69	34.39	53.13	64.50	53.45	74.00	-20.55 peak
5	7266.000	8.32	36.12	53.53	62.15	53.06	74.00	-20.94 peak
6	9688.000	11.35	37.71	53.50	58.44	54.00	74.00	-20.00 peak

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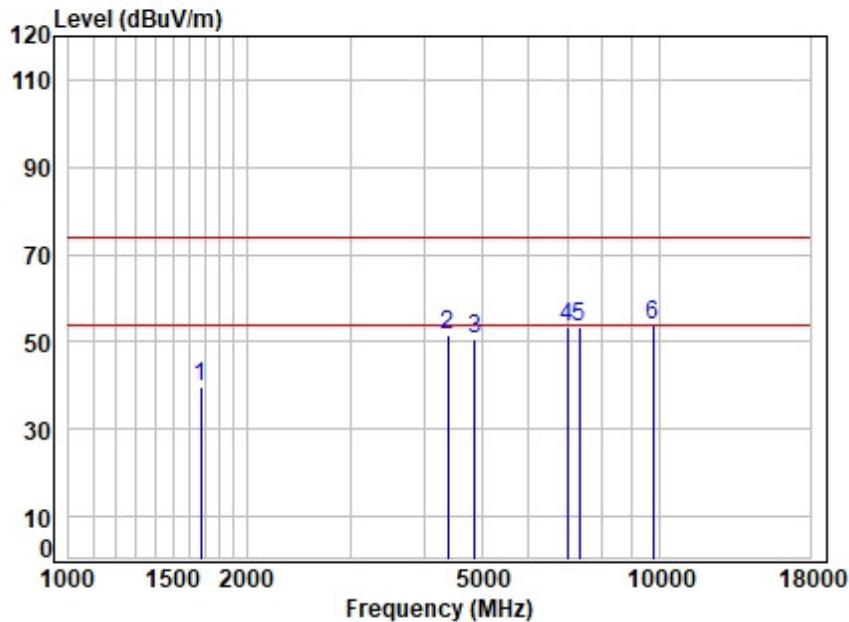
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Site : chamber

Condition: 3m HORIZONTAL

Job No : 00416AT/00417AT

Mode : 2437 TX RSE

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1672.779	4.14	24.95	52.95	63.75	39.89	74.00	-34.11 peak
2	4379.699	7.47	30.04	52.92	67.14	51.73	74.00	-22.27 peak
3	4874.000	8.10	31.11	53.07	64.49	50.63	74.00	-23.37 peak
4	6995.172	8.19	35.79	53.50	62.86	53.34	74.00	-20.66 peak
5	7311.000	8.34	36.18	53.53	62.57	53.56	74.00	-20.44 peak
6	9748.000	11.30	37.84	53.44	58.19	53.89	74.00	-20.11 peak

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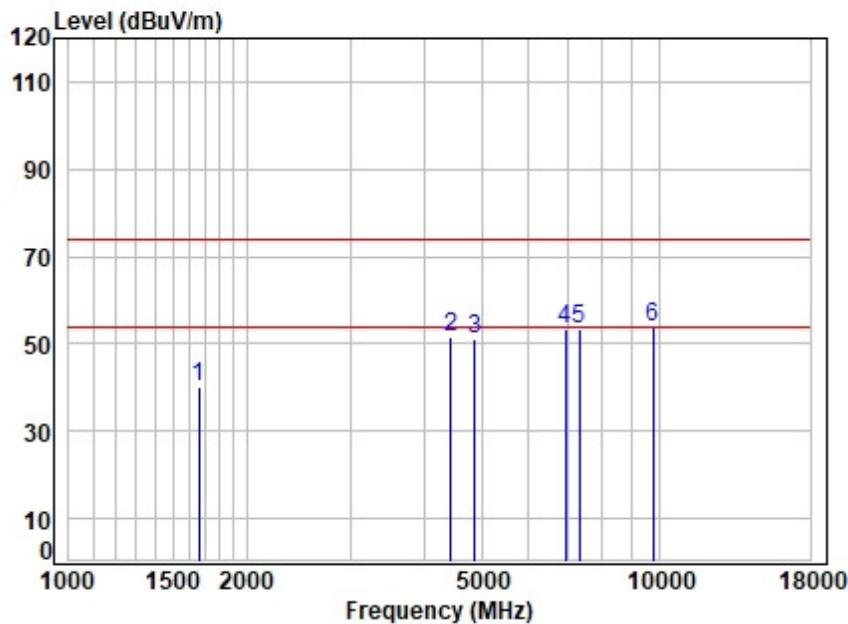
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Site : chamber

Condition: 3m VERTICAL

Job No : 00416AT/00417AT

Mode : 2437 TX RSE

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1663.137	4.12	24.93	52.94	63.89	40.00	74.00	-34.00 peak
2	4430.628	7.47	30.11	52.94	67.06	51.70	74.00	-22.30 peak
3	4874.000	8.10	31.11	53.07	65.00	51.14	74.00	-22.86 peak
4	6934.778	8.13	35.65	53.46	62.84	53.16	74.00	-20.84 peak
5	7311.000	8.34	36.18	53.53	62.57	53.56	74.00	-20.44 peak
6	9748.000	11.30	37.84	53.44	58.04	53.74	74.00	-20.26 peak

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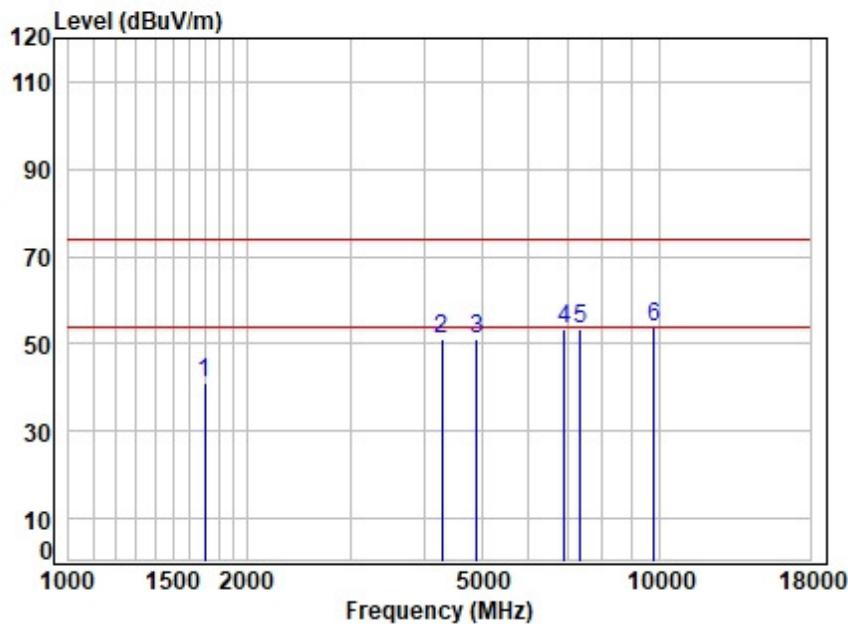
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Site : chamber

Condition: 3m HORIZONTAL

Job No : 00416AT/00417AT

Mode : 2452 TX RSE

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1702.042	4.20	25.01	52.96	65.00	41.25	74.00	-32.75 peak
2	4291.977	7.48	29.92	52.89	66.79	51.30	74.00	-22.70 peak
3	4904.000	8.15	31.18	53.07	64.82	51.08	74.00	-22.92 peak
4	6894.806	8.09	35.55	53.43	63.17	53.38	74.00	-20.62 peak
5	7356.000	8.36	36.23	53.54	62.49	53.54	74.00	-20.46 peak
6	9808.000	11.26	37.98	53.38	57.90	53.76	74.00	-20.24 peak

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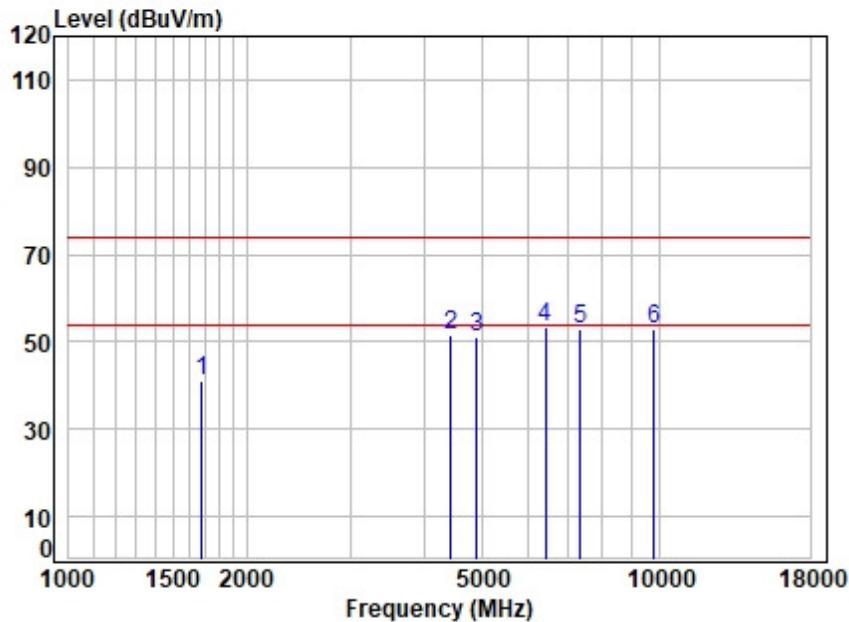
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Site : chamber

Condition: 3m VERTICAL

Job No : 00416AT/00417AT

Mode : 2452 TX RSE

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1682.477	4.16	24.97	52.95	64.97	41.15	74.00	-32.85 peak
2	4430.628	7.47	30.11	52.94	67.03	51.67	74.00	-22.33 peak
3	4904.000	8.15	31.18	53.07	64.78	51.04	74.00	-22.96 peak
4	6414.167	7.69	34.23	53.10	64.42	53.24	74.00	-20.76 peak
5	7356.000	8.36	36.23	53.54	62.03	53.08	74.00	-20.92 peak
6	9808.000	11.26	37.98	53.38	57.24	53.10	74.00	-20.90 peak

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## 8 Test Setup Photo

Refer to Appendix – Setup Photos for FYCR2210000416AT.

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2210000416AT.

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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)	MIMO	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)	MIMO	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

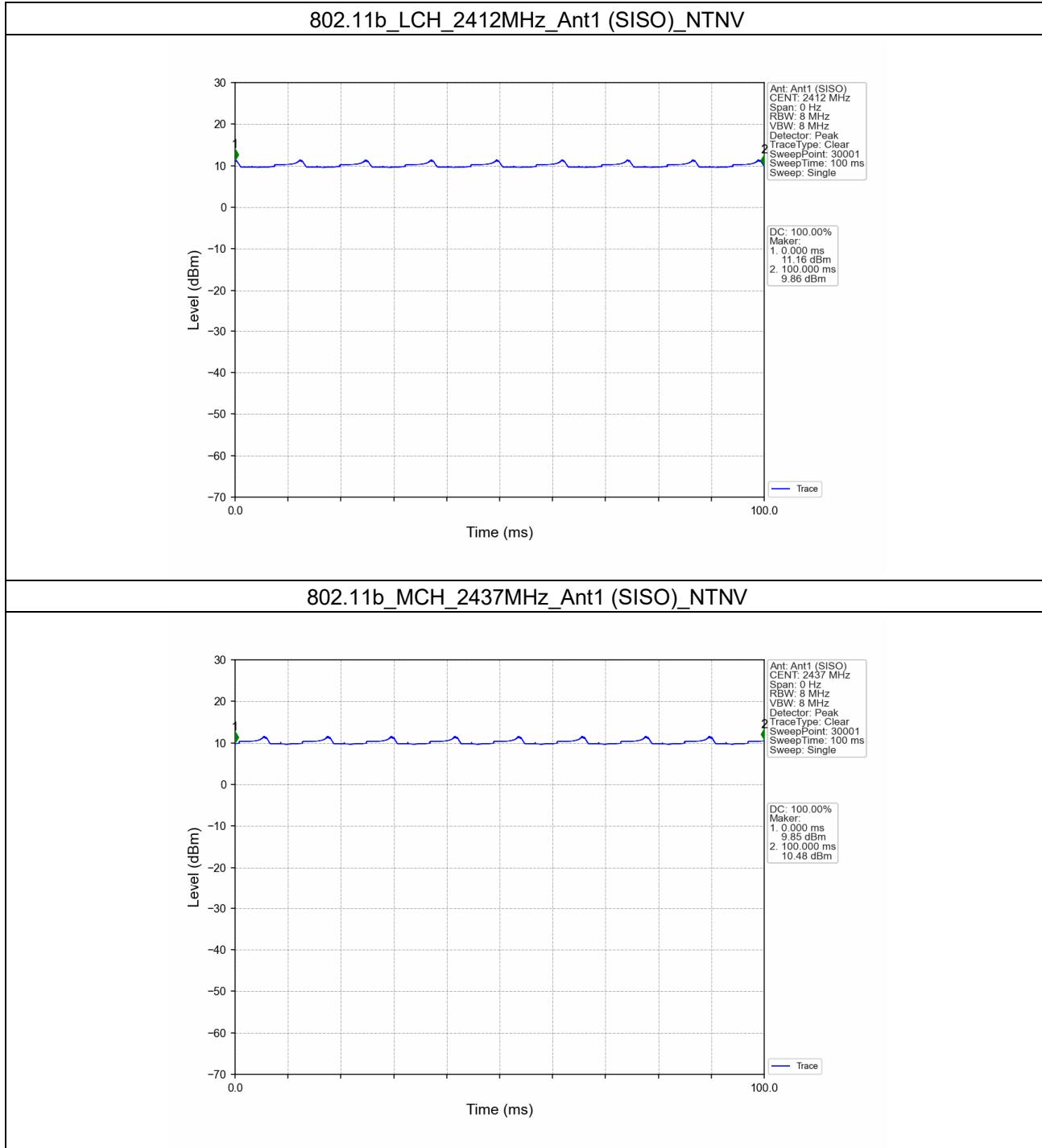
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**1.1.2 Test Graph**

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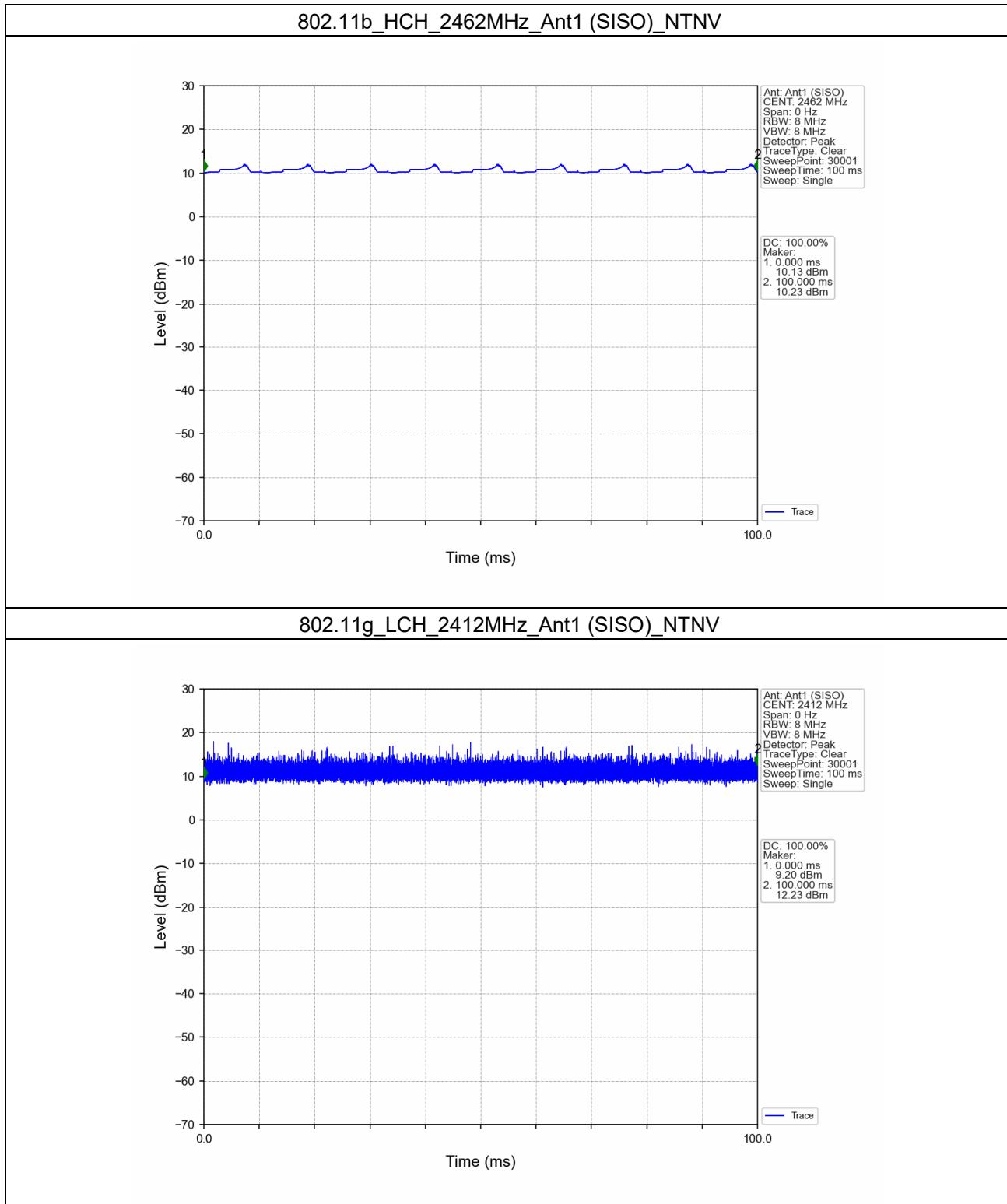
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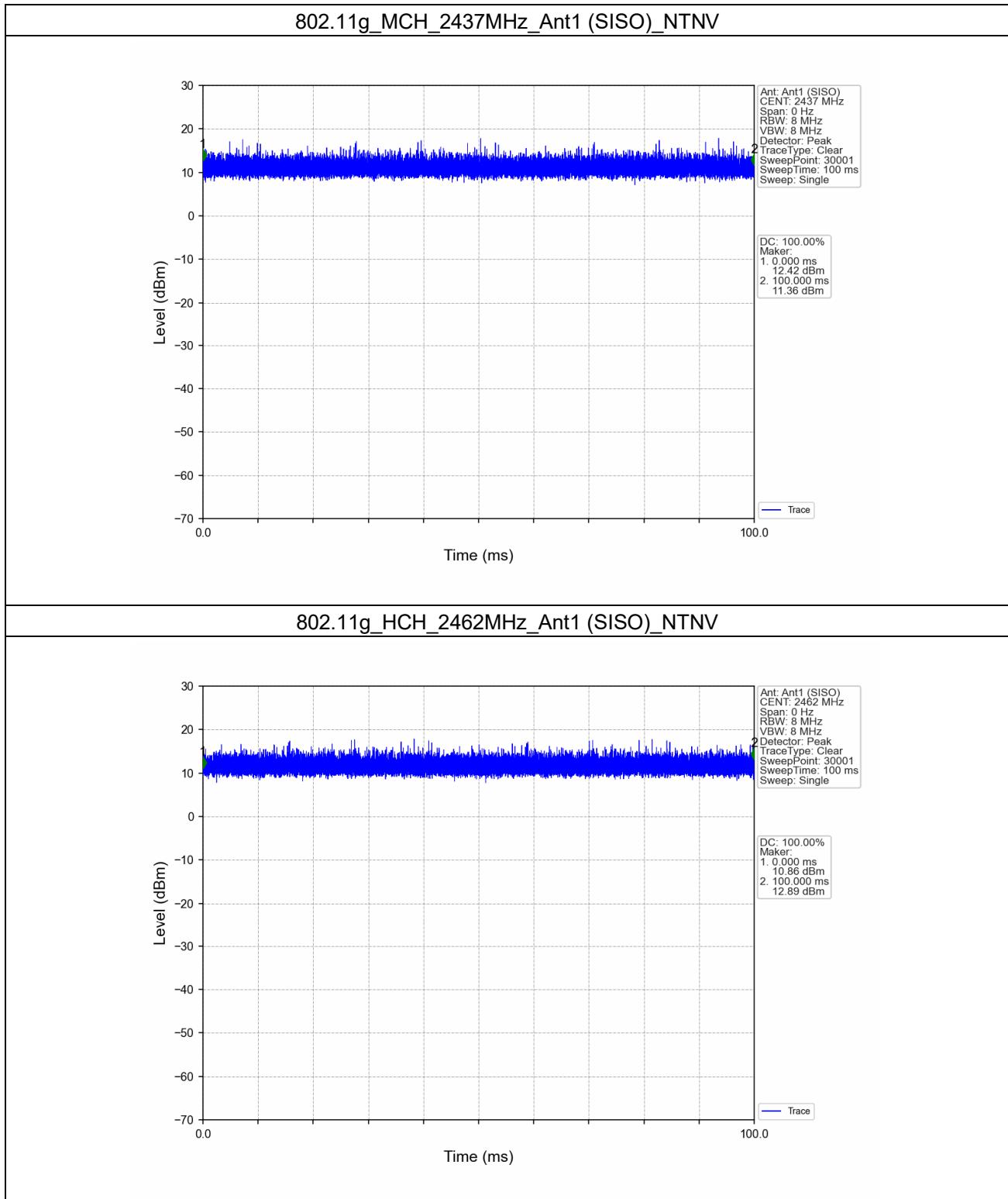
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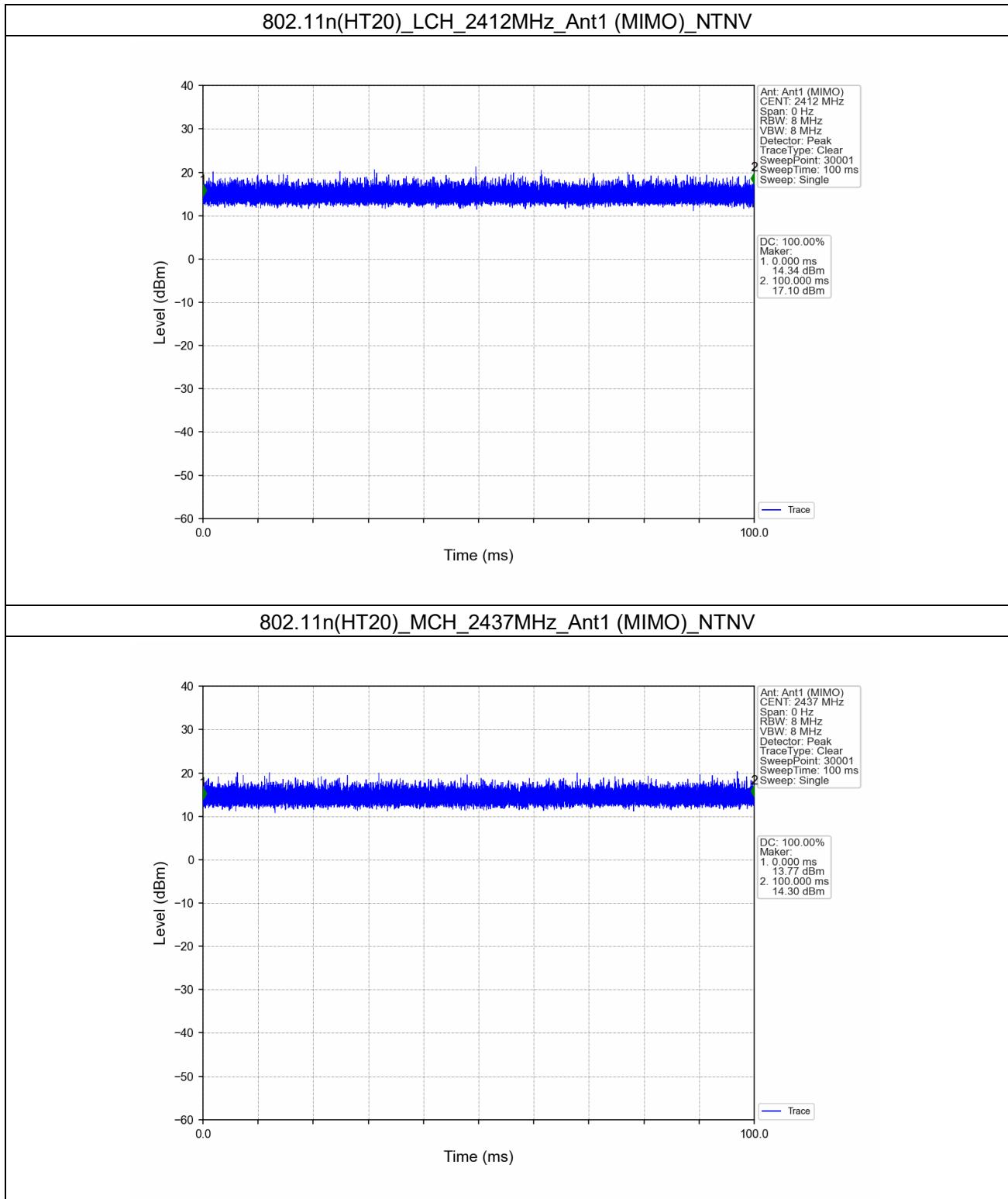
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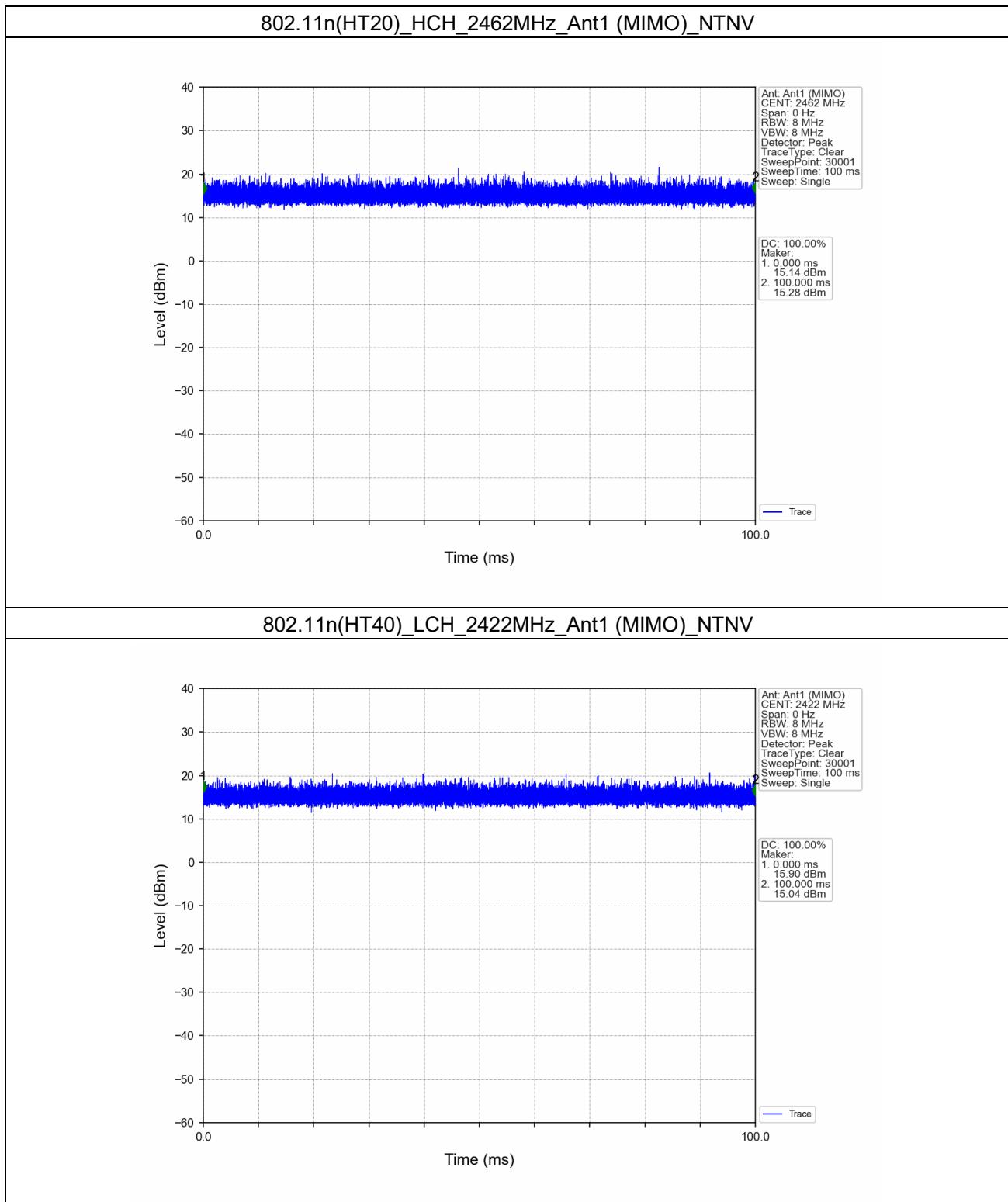
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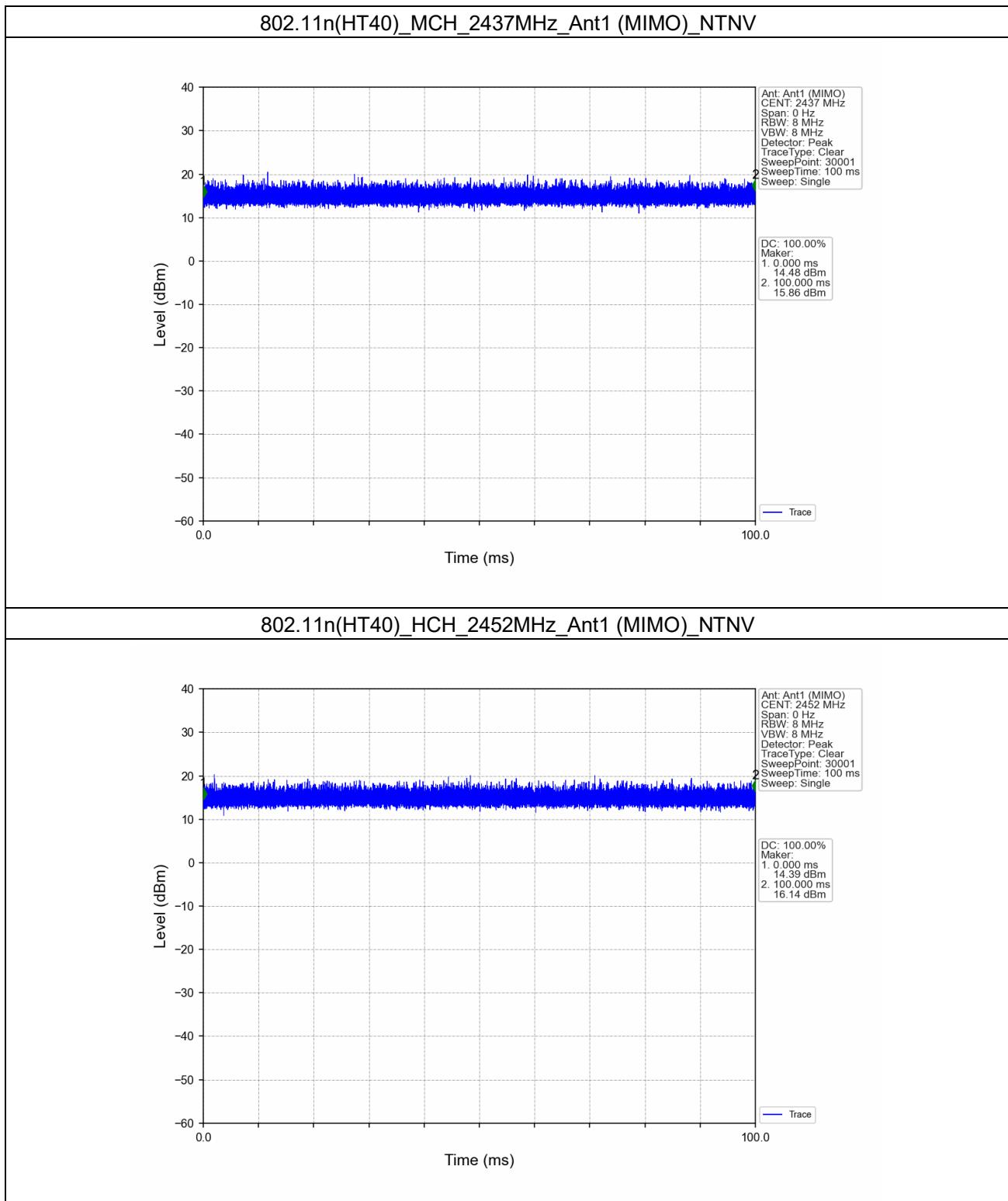
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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

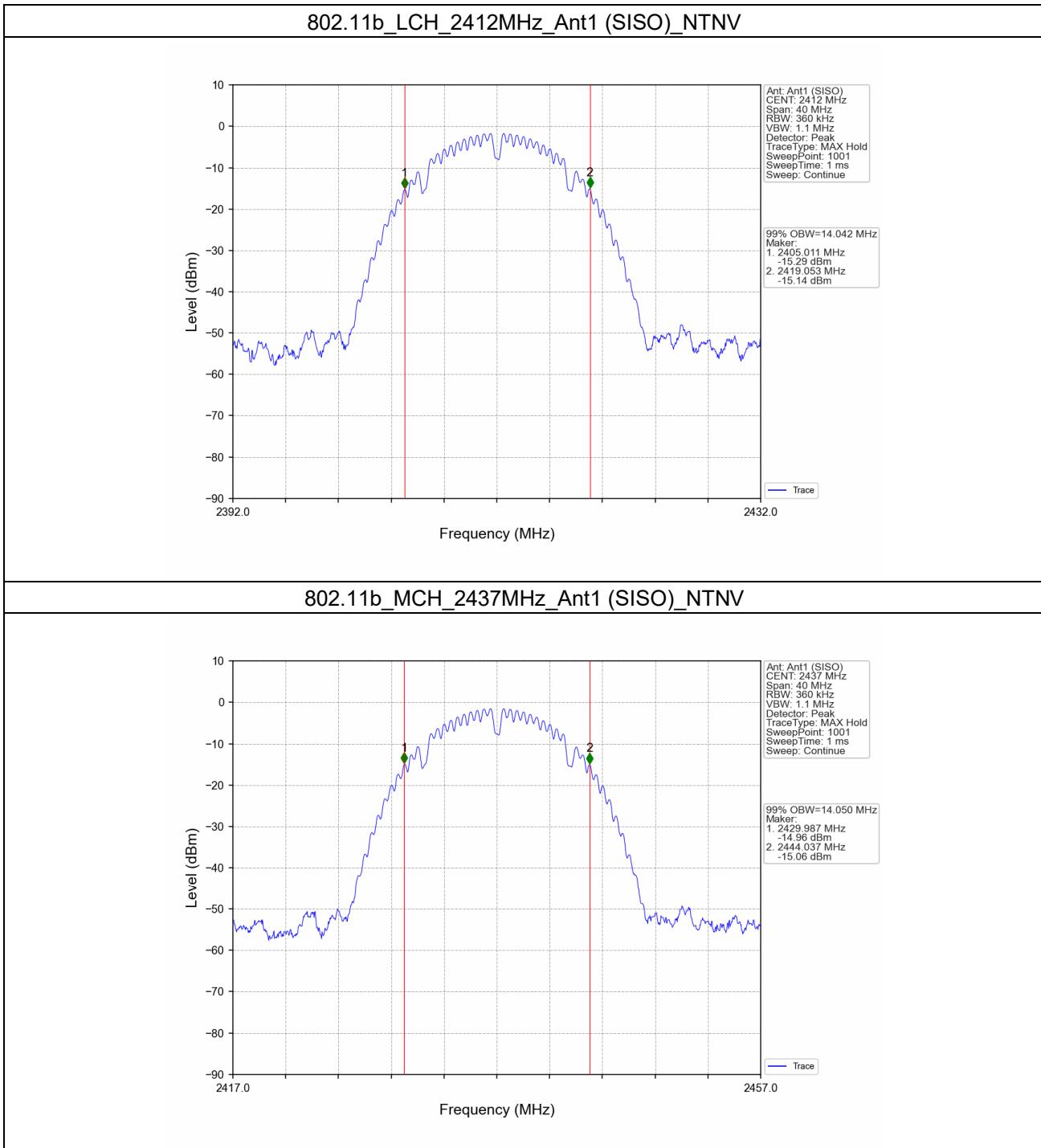
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.042	Pass
		2437	1	14.050	Pass
		2462	1	14.045	Pass
802.11g	SISO	2412	1	17.270	Pass
		2437	1	17.295	Pass
		2462	1	17.306	Pass
802.11n (HT20)	MIMO	2412	1	18.171	Pass
		2437	1	18.135	Pass
		2462	1	18.181	Pass
802.11n (HT40)	MIMO	2422	1	36.545	Pass
		2437	1	36.569	Pass
		2452	1	36.628	Pass

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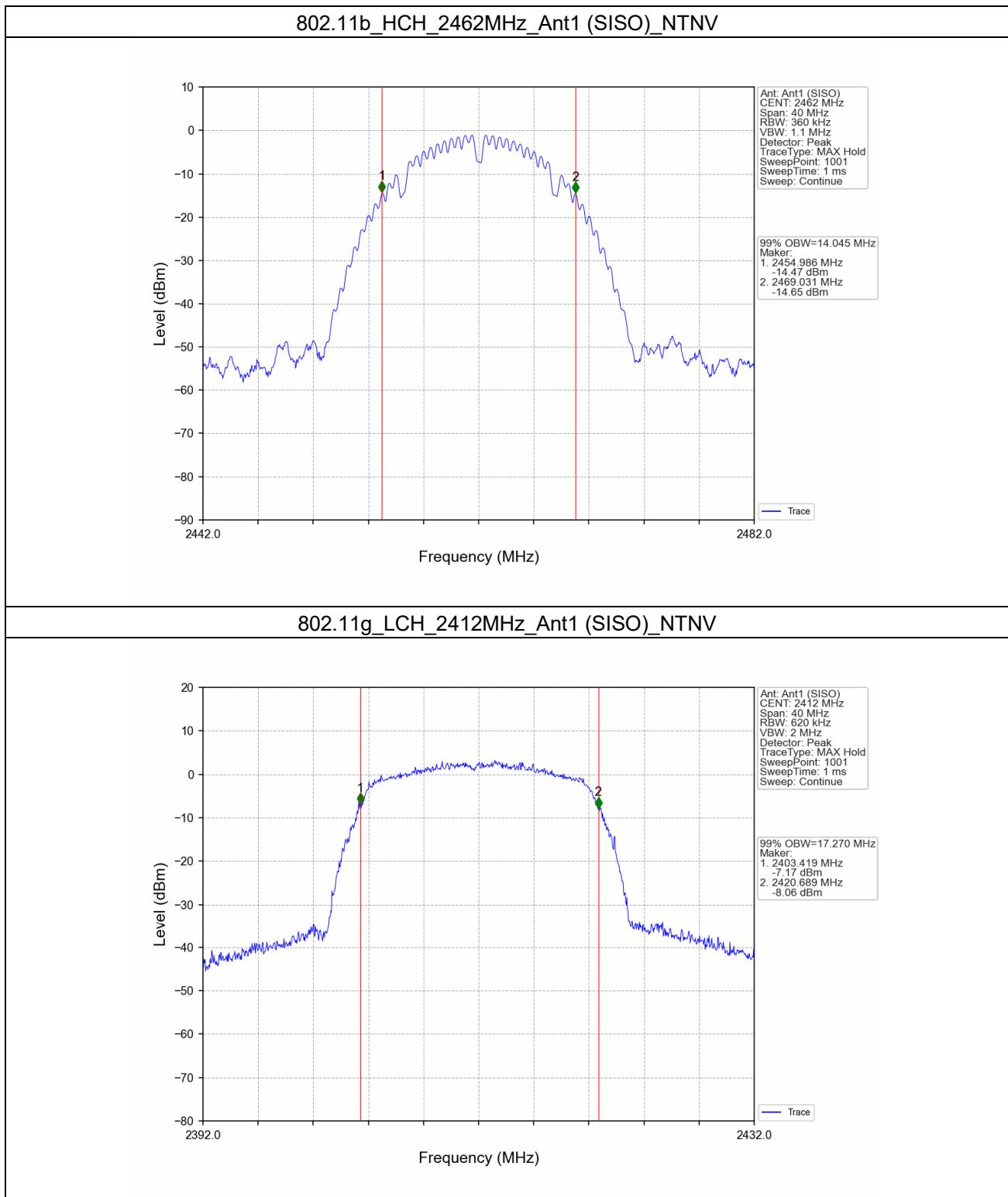
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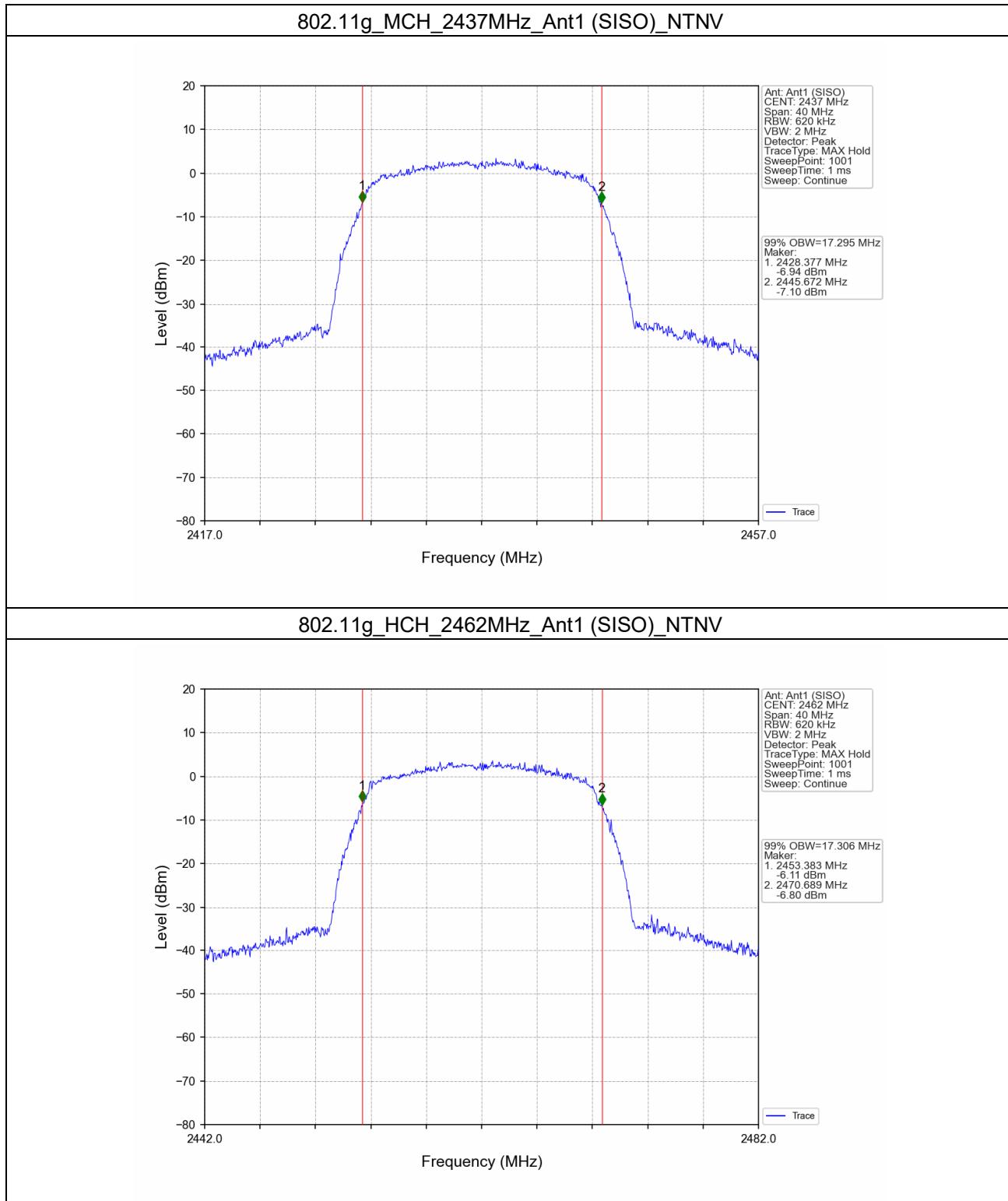
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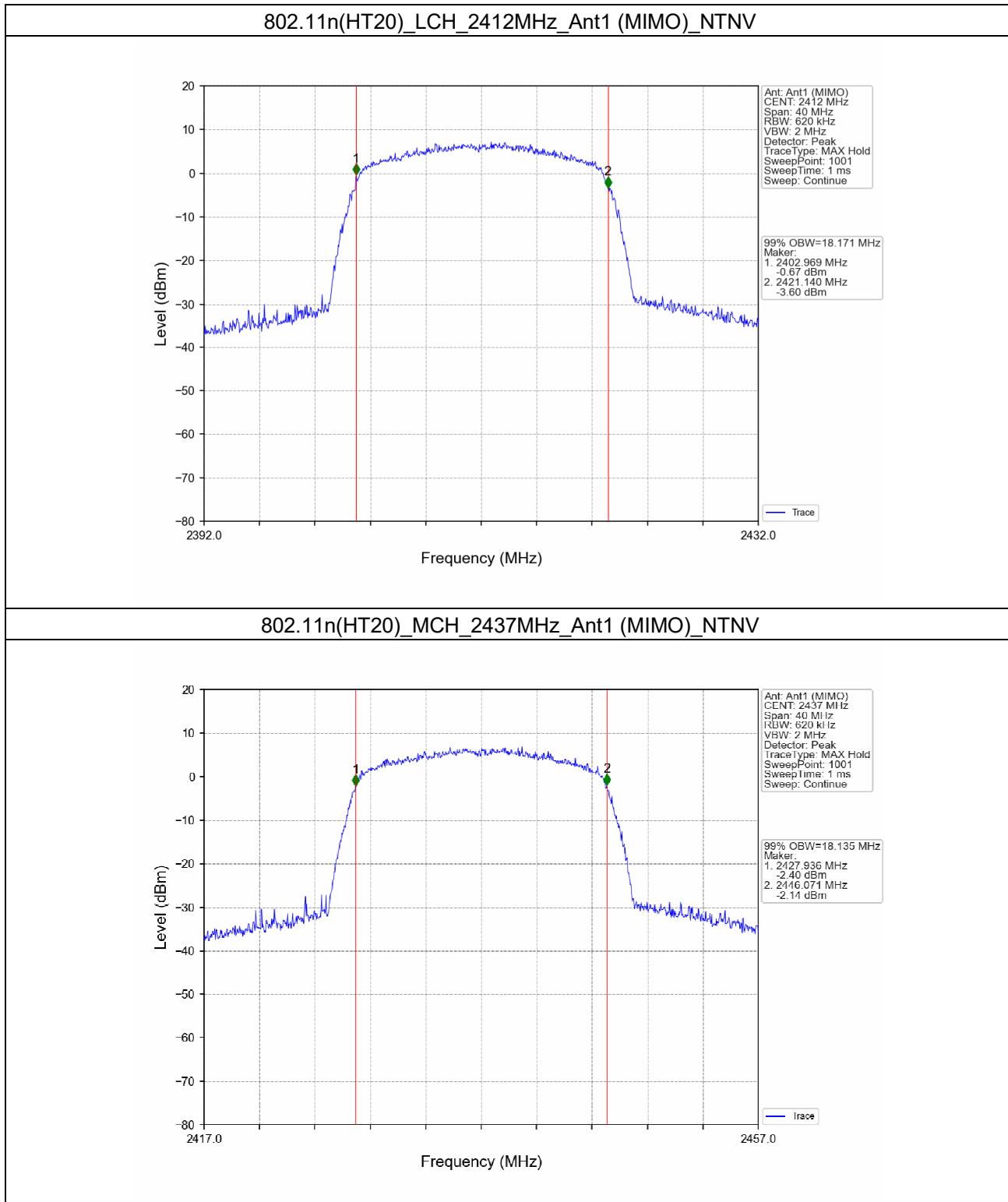
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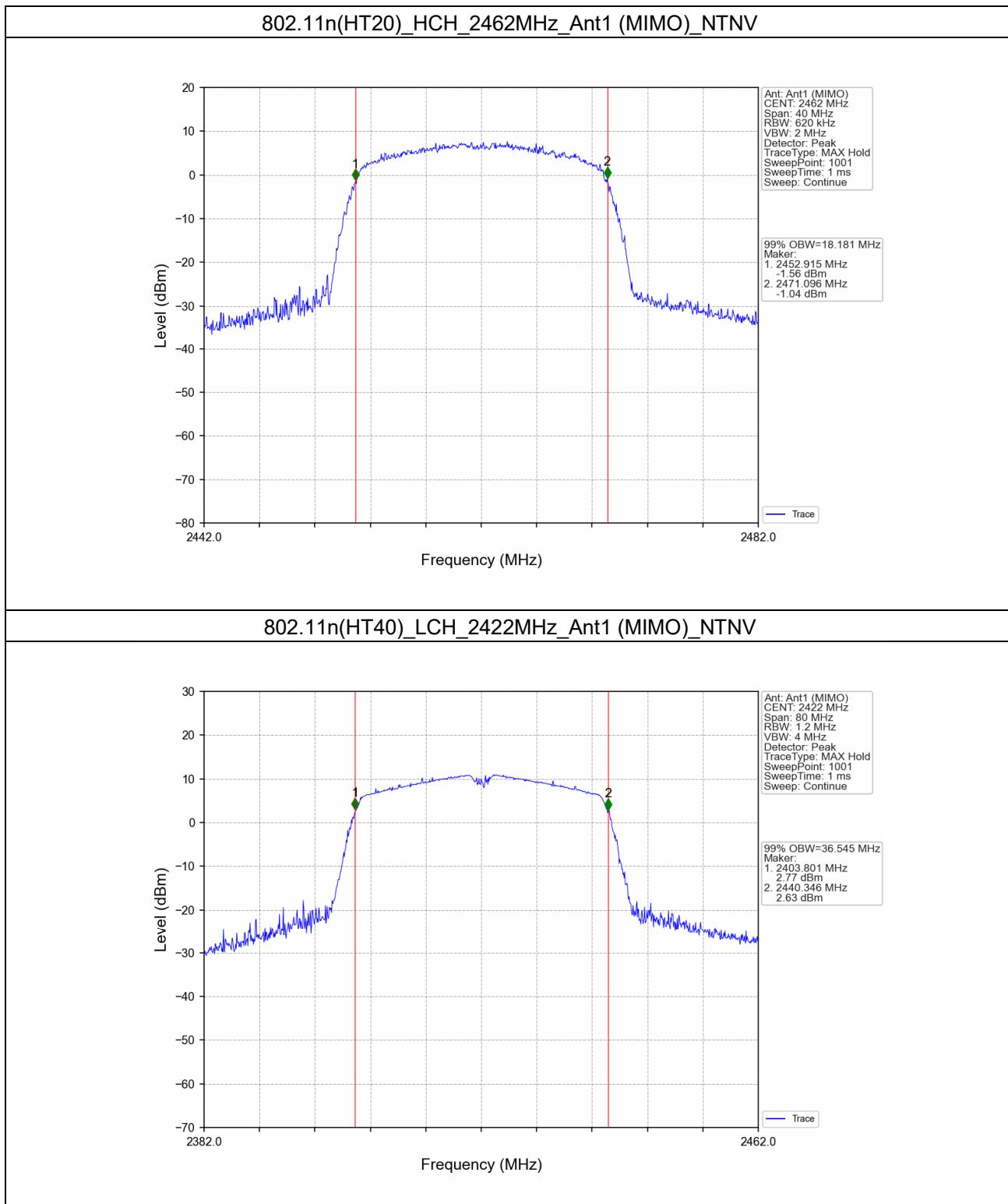
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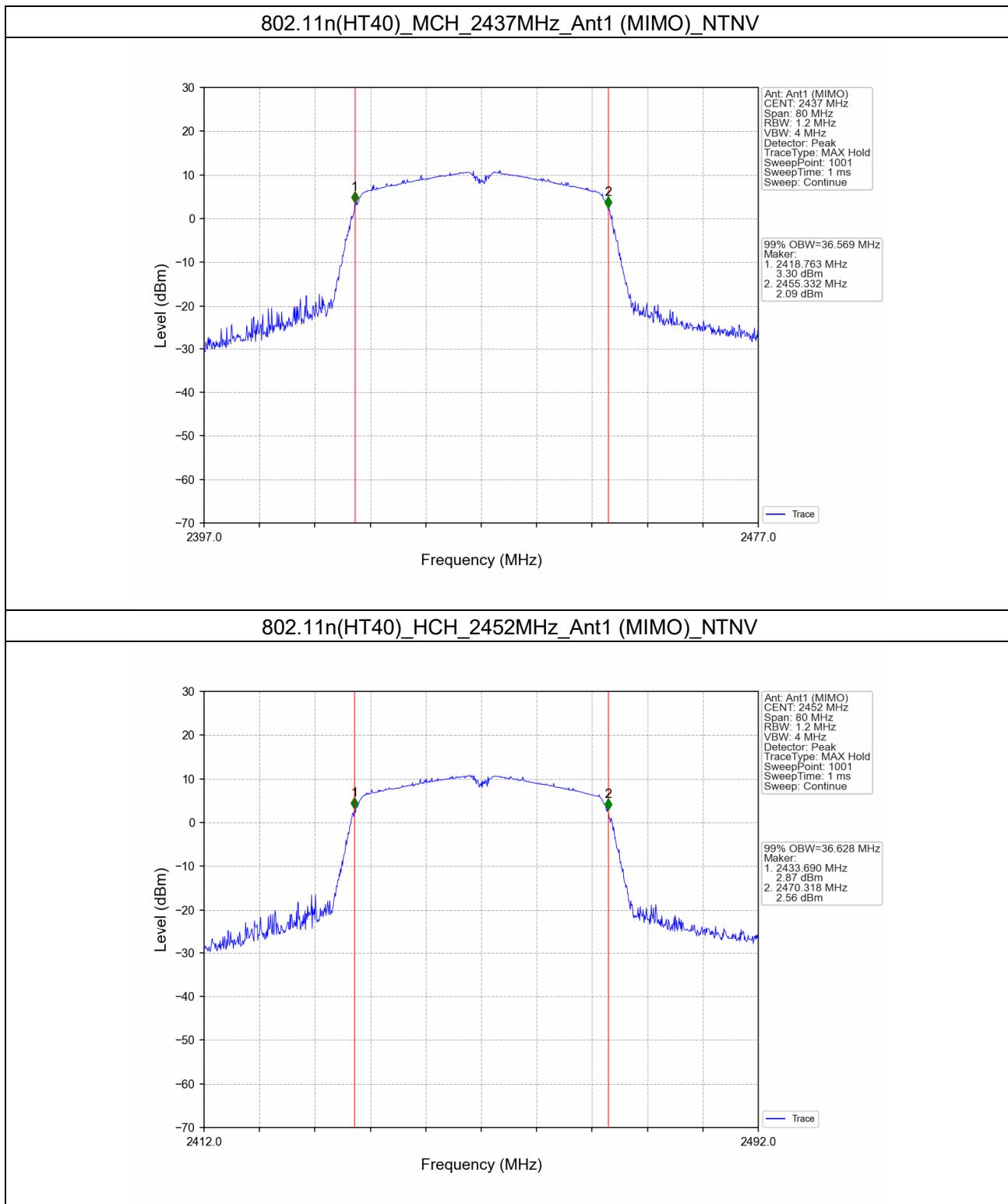
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**2.2 6dB BW****2.2.1 Test Result**

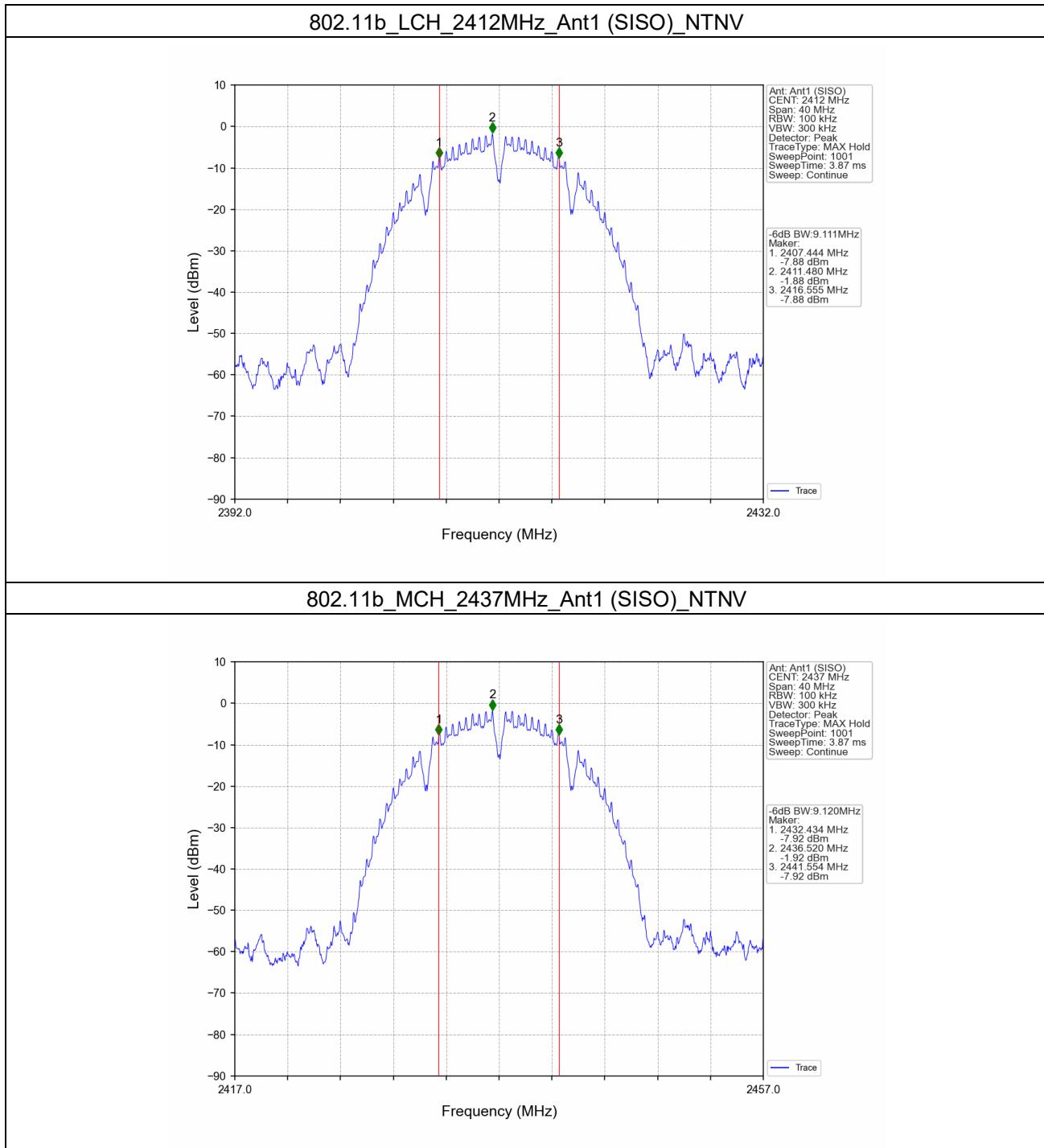
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.111	>=0.5	Pass
		2437	1	9.120	>=0.5	Pass
		2462	1	9.555	>=0.5	Pass
802.11g	SISO	2412	1	16.324	>=0.5	Pass
		2437	1	16.336	>=0.5	Pass
		2462	1	16.323	>=0.5	Pass
802.11n (HT20)	MIMO	2412	1	17.558	>=0.5	Pass
		2437	1	17.573	>=0.5	Pass
		2462	1	17.584	>=0.5	Pass
802.11n (HT40)	MIMO	2422	1	35.895	>=0.5	Pass
		2437	1	35.708	>=0.5	Pass
		2452	1	35.131	>=0.5	Pass

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**2.2.2 Test Graph**

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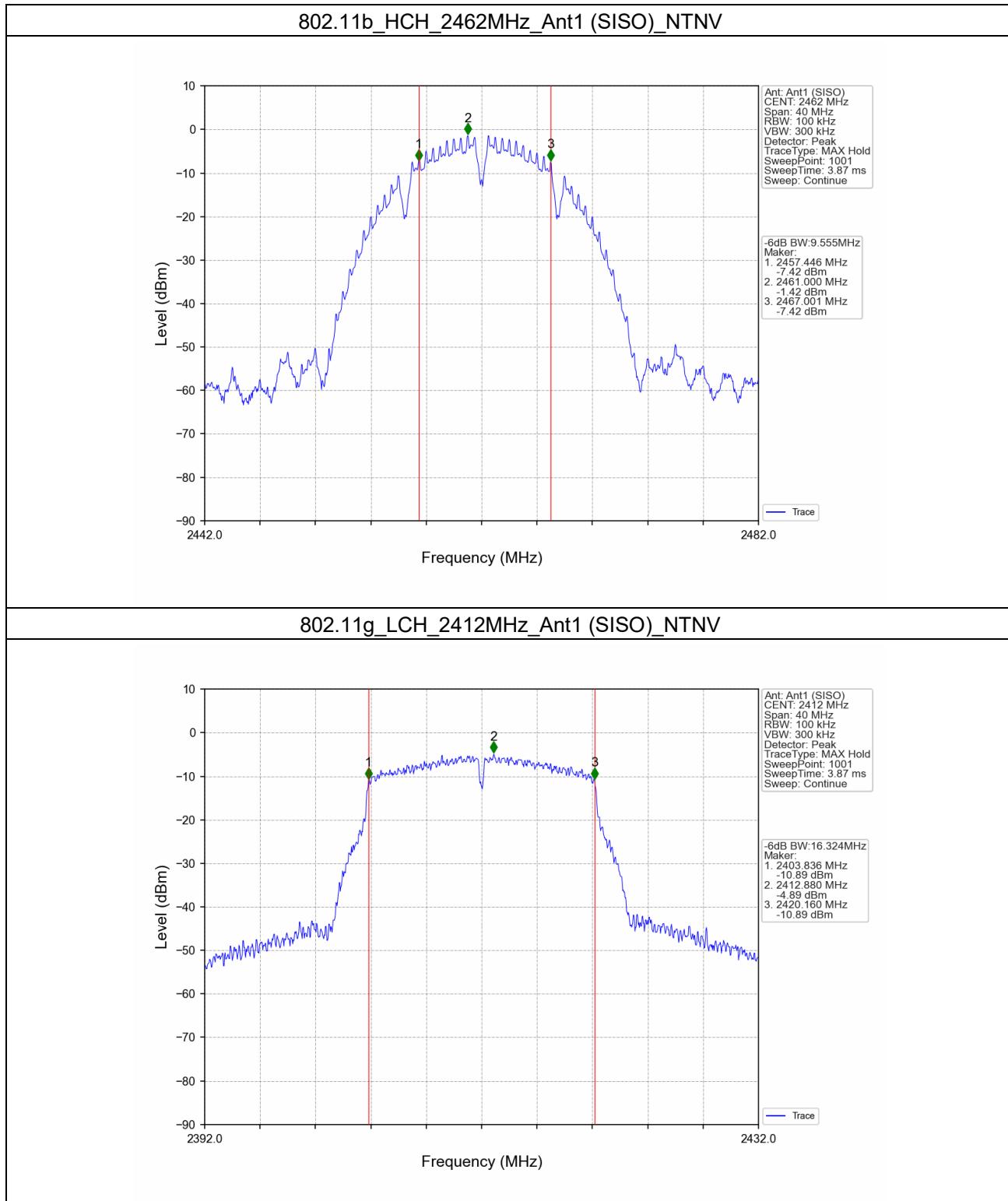
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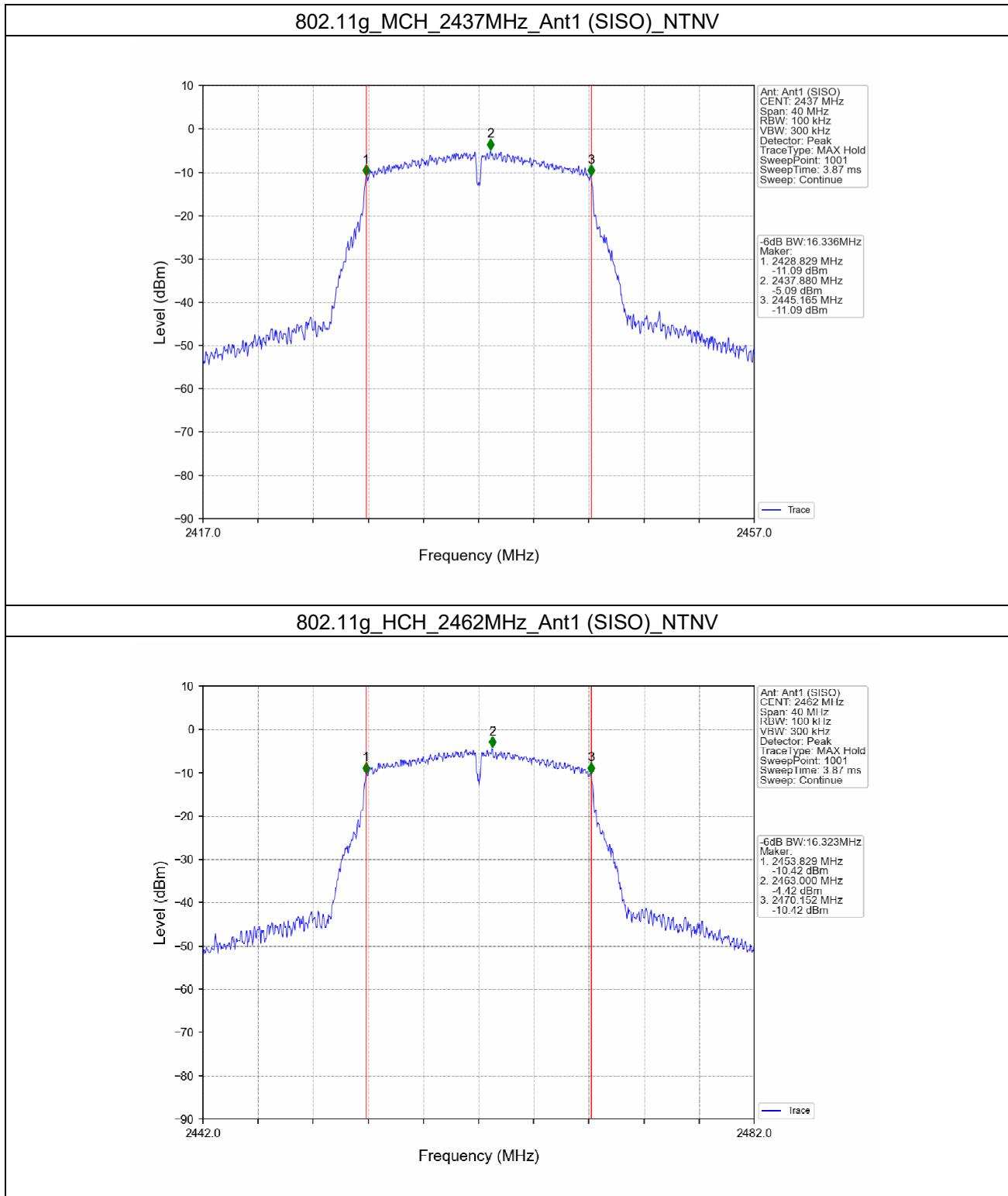
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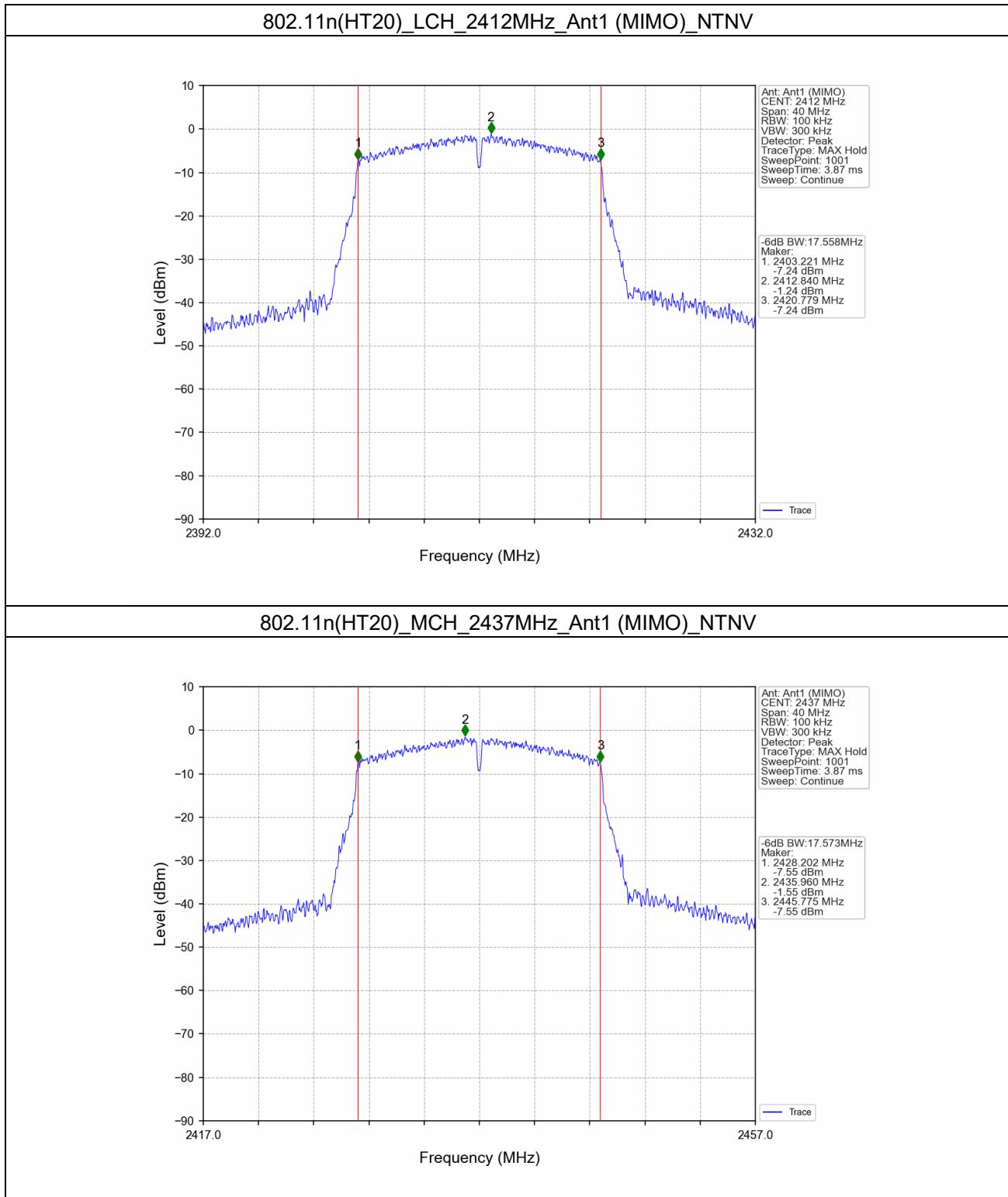
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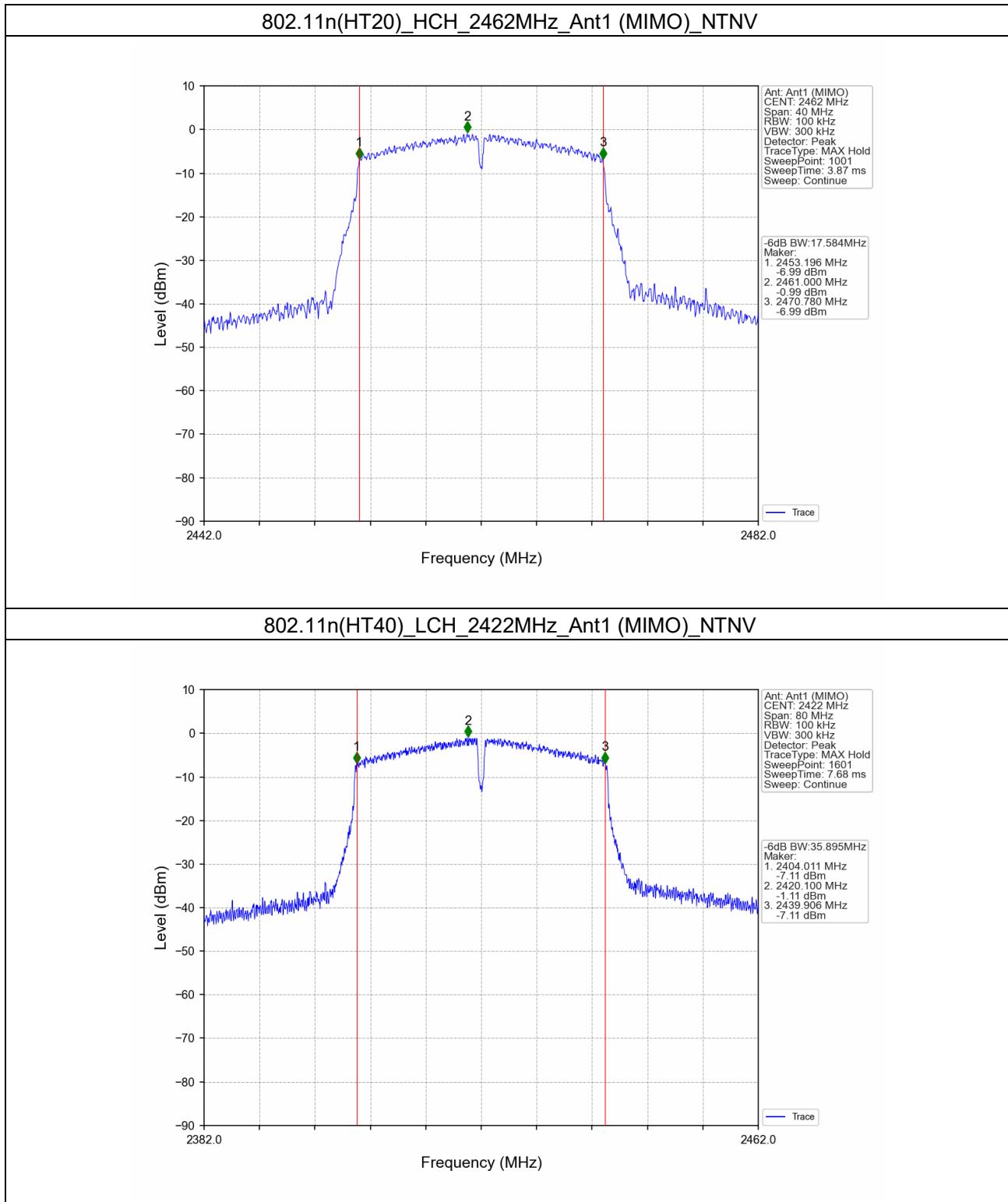
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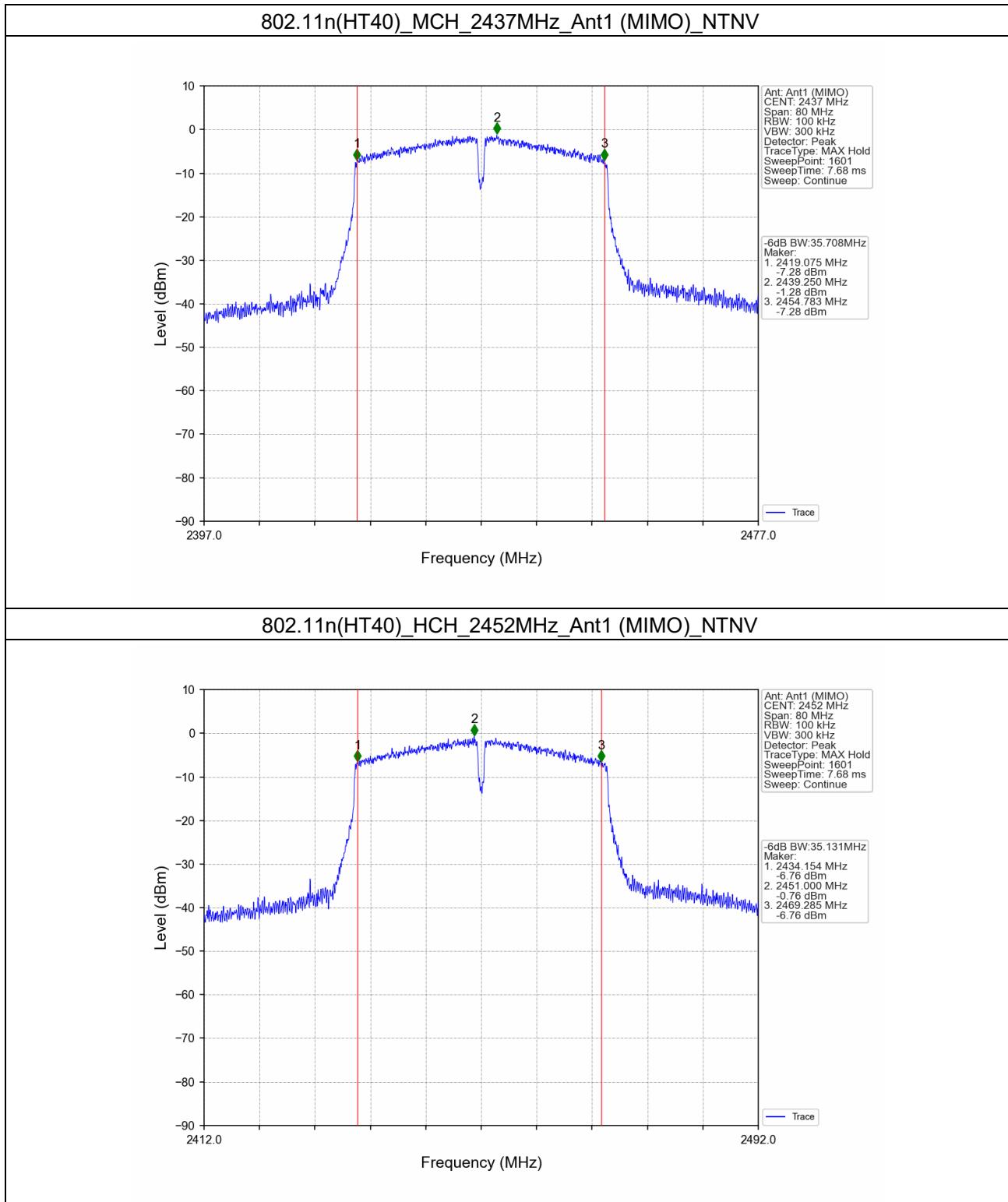
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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	6.45	6.00	/	<=30	Pass
		2437	6.65	5.23	/	<=30	Pass
		2462	7.10	5.37	/	<=30	Pass
802.11g	SISO	2412	7.46	5.66	/	<=30	Pass
		2437	7.47	5.54	/	<=30	Pass
		2462	8.00	5.63	/	<=30	Pass
802.11n (HT20)	MIMO	2412	11.38	10.00	13.75	<=30	Pass
		2437	11.13	10.03	13.63	<=30	Pass
		2462	11.84	9.79	13.95	<=30	Pass
802.11n (HT40)	MIMO	2422	14.61	12.88	16.84	<=30	Pass
		2437	14.34	13.10	16.77	<=30	Pass
		2452	14.44	12.96	16.77	<=30	Pass

Note1: Antenna Gain: Ant1: 5.00dBi; Ant2: 5.00dBi;  
Note2: Directional Gain: 5dBi

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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	ANT2	MIMO	Limit	
802.11b	SISO	2412	-15.72	-16.93	/	<=8	Pass
		2437	-17.07	-17.35	/	<=8	Pass
		2462	-16.16	-17.25	/	<=8	Pass
802.11g	SISO	2412	-17.46	-19.02	/	<=8	Pass
		2437	-17.55	-19.64	/	<=8	Pass
		2462	-16.12	-18.92	/	<=8	Pass
802.11n (HT20)	MIMO	2412	-12.77	-14.04	-10.52	<=8	Pass
		2437	-13.47	-14.64	-11.63	<=8	Pass
		2462	-13.59	-15.27	-11.52	<=8	Pass
802.11n (HT40)	MIMO	2422	-13.21	-14.45	-10.95	<=8	Pass
		2437	-13.14	-14.17	-10.97	<=8	Pass
		2452	-13.01	-14.14	-11.11	<=8	Pass

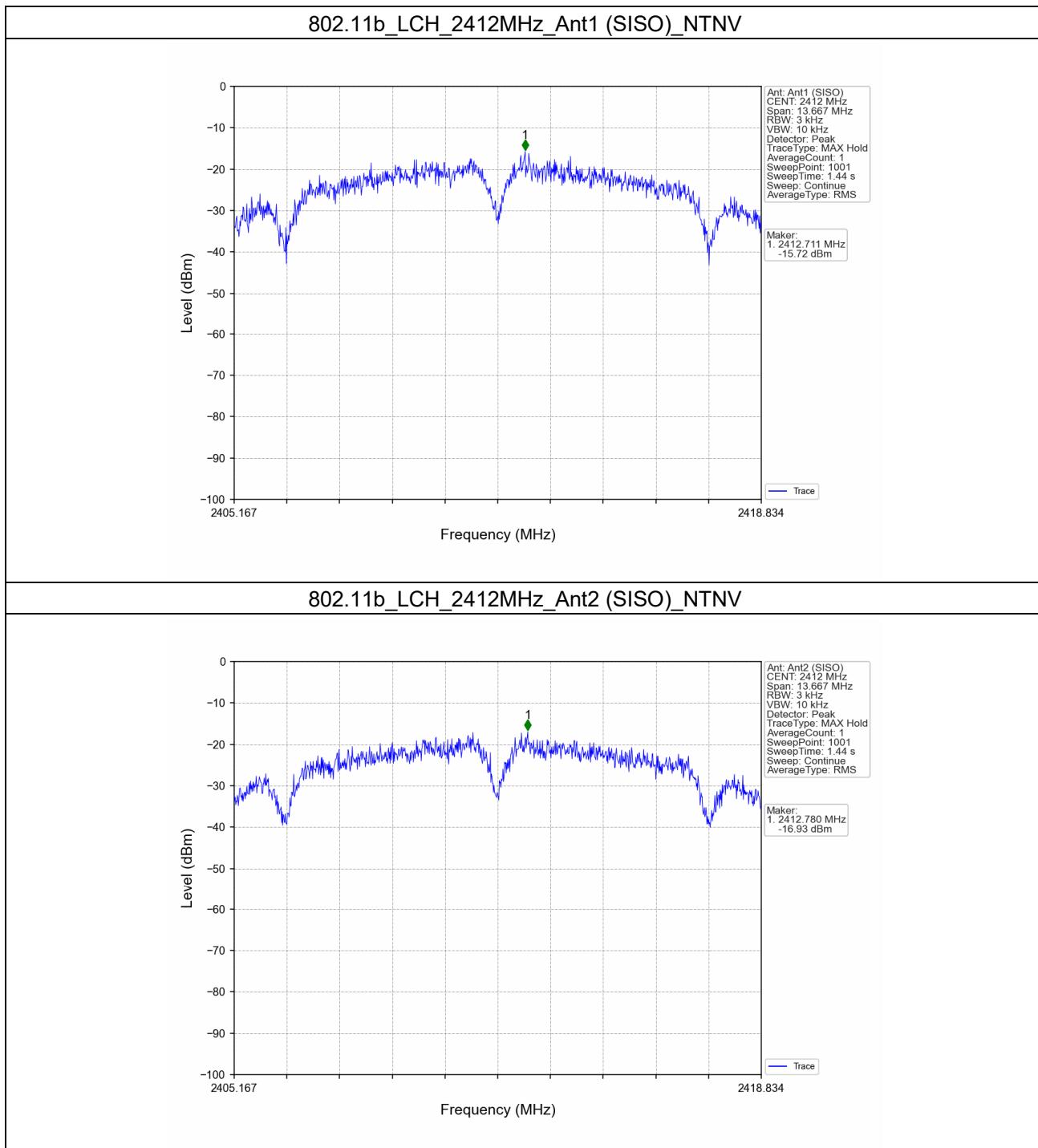
Note1: Antenna Gain: Ant1: 5.00dBi; Ant2: 5.00dBi;  
Note2: Directional Gain: 5dBi

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**4.1.2 Test Graph**

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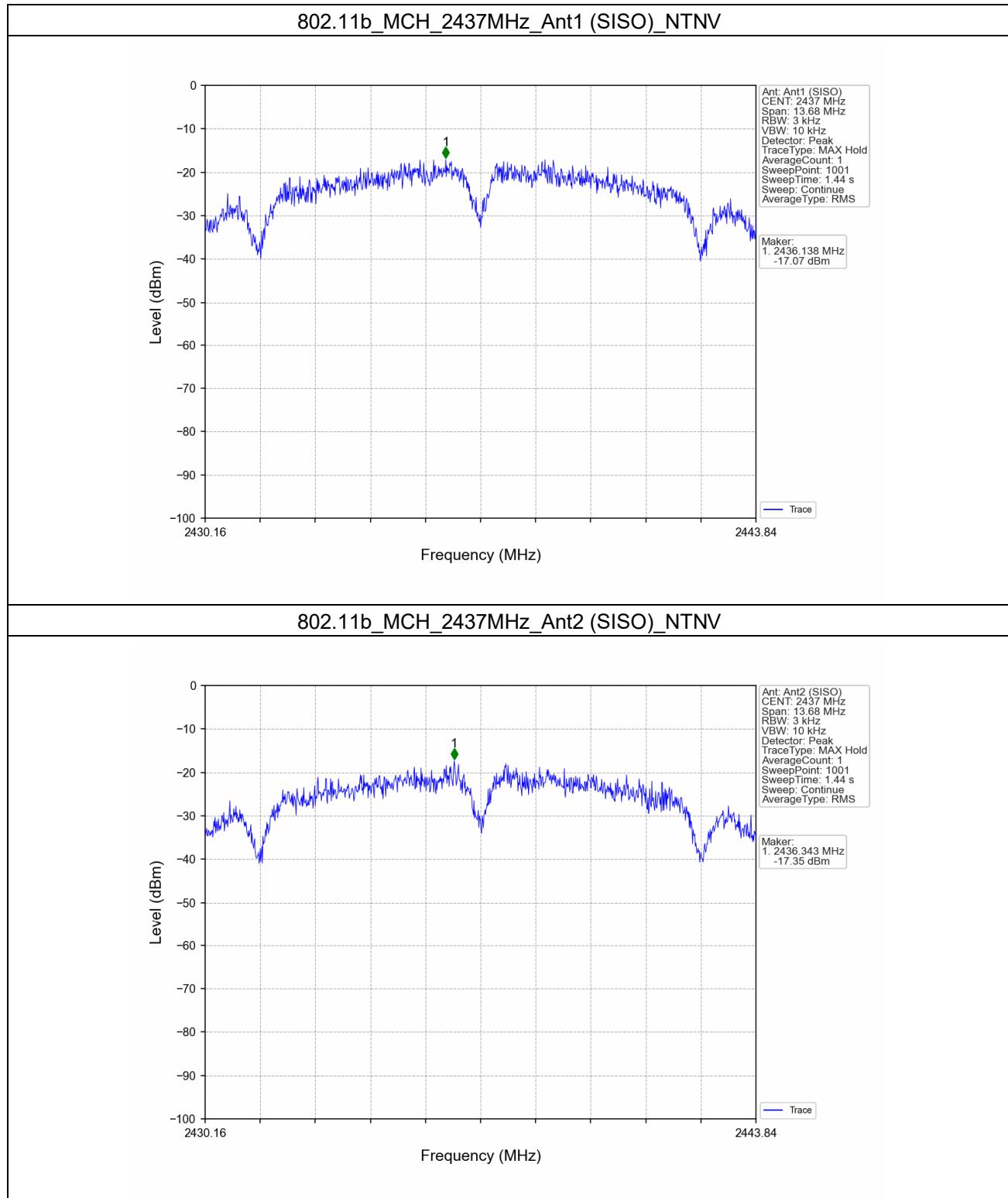
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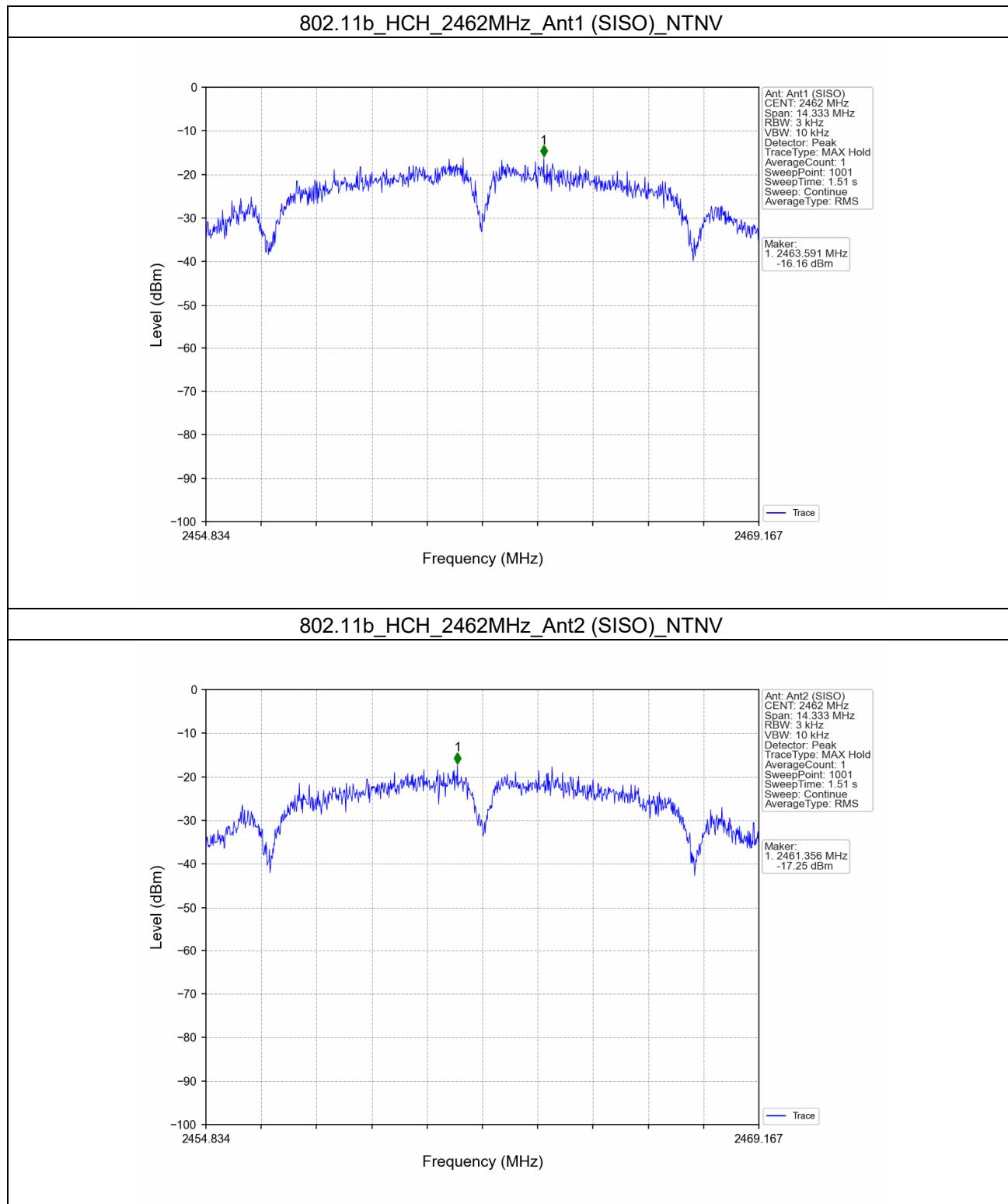
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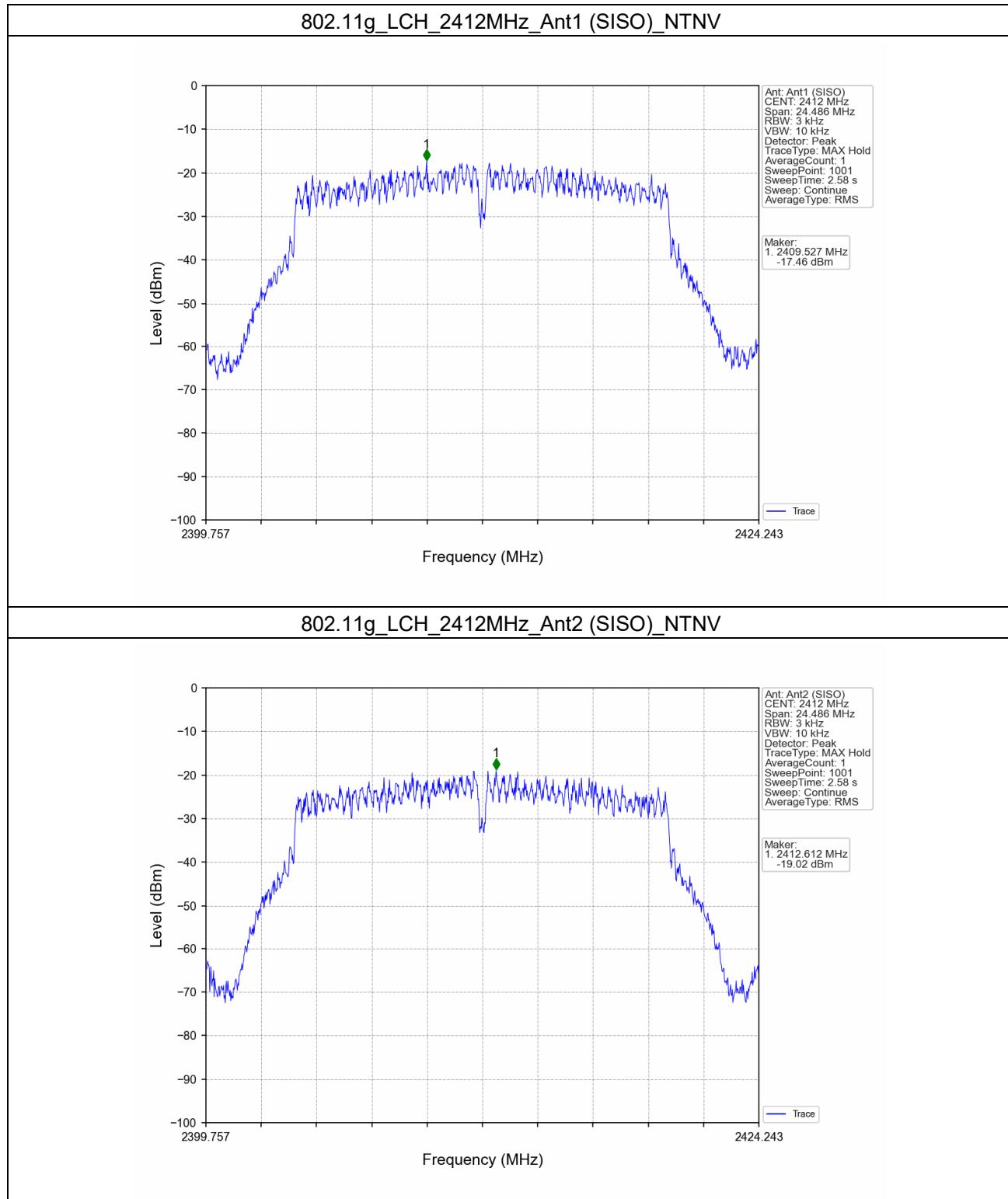
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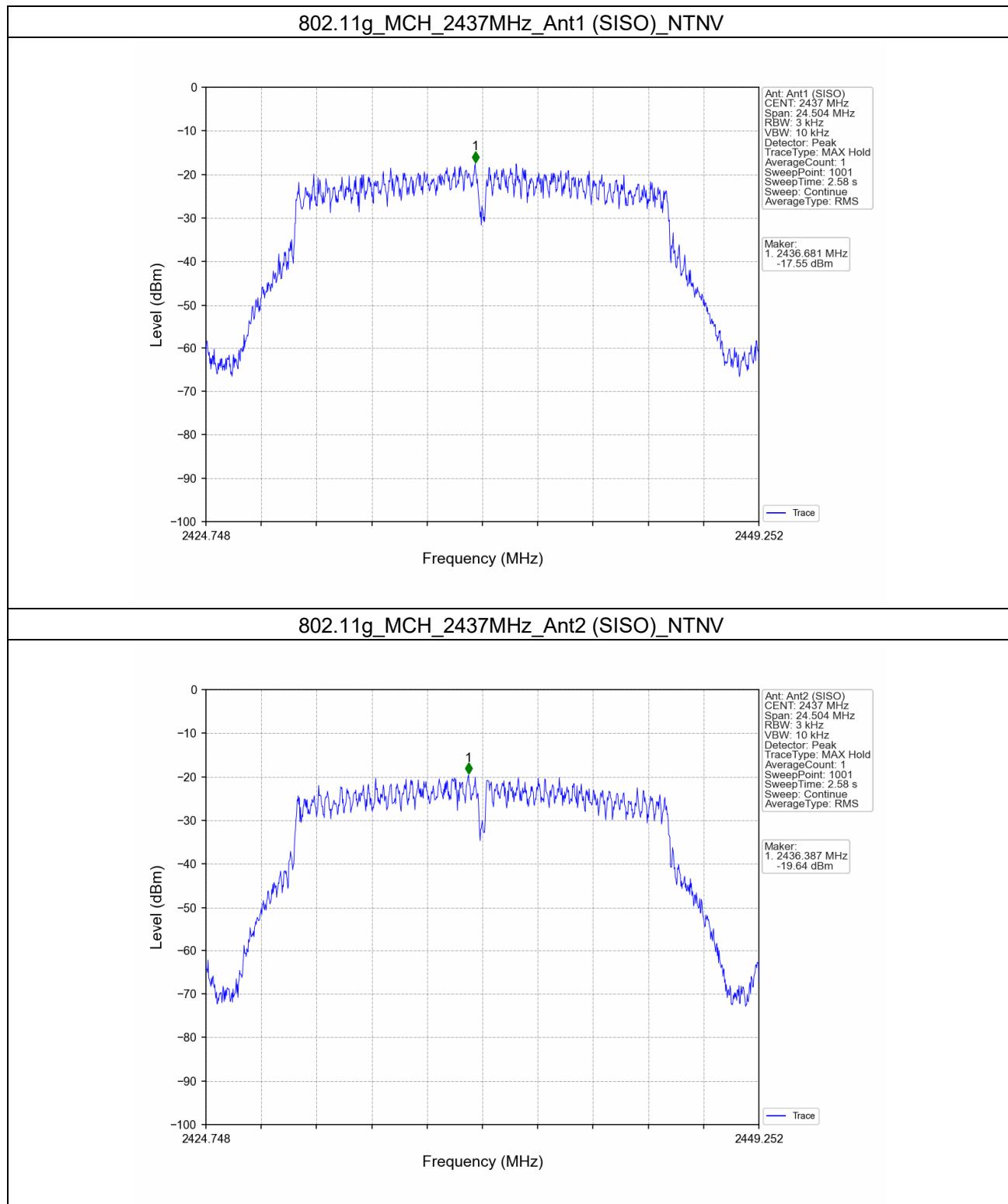
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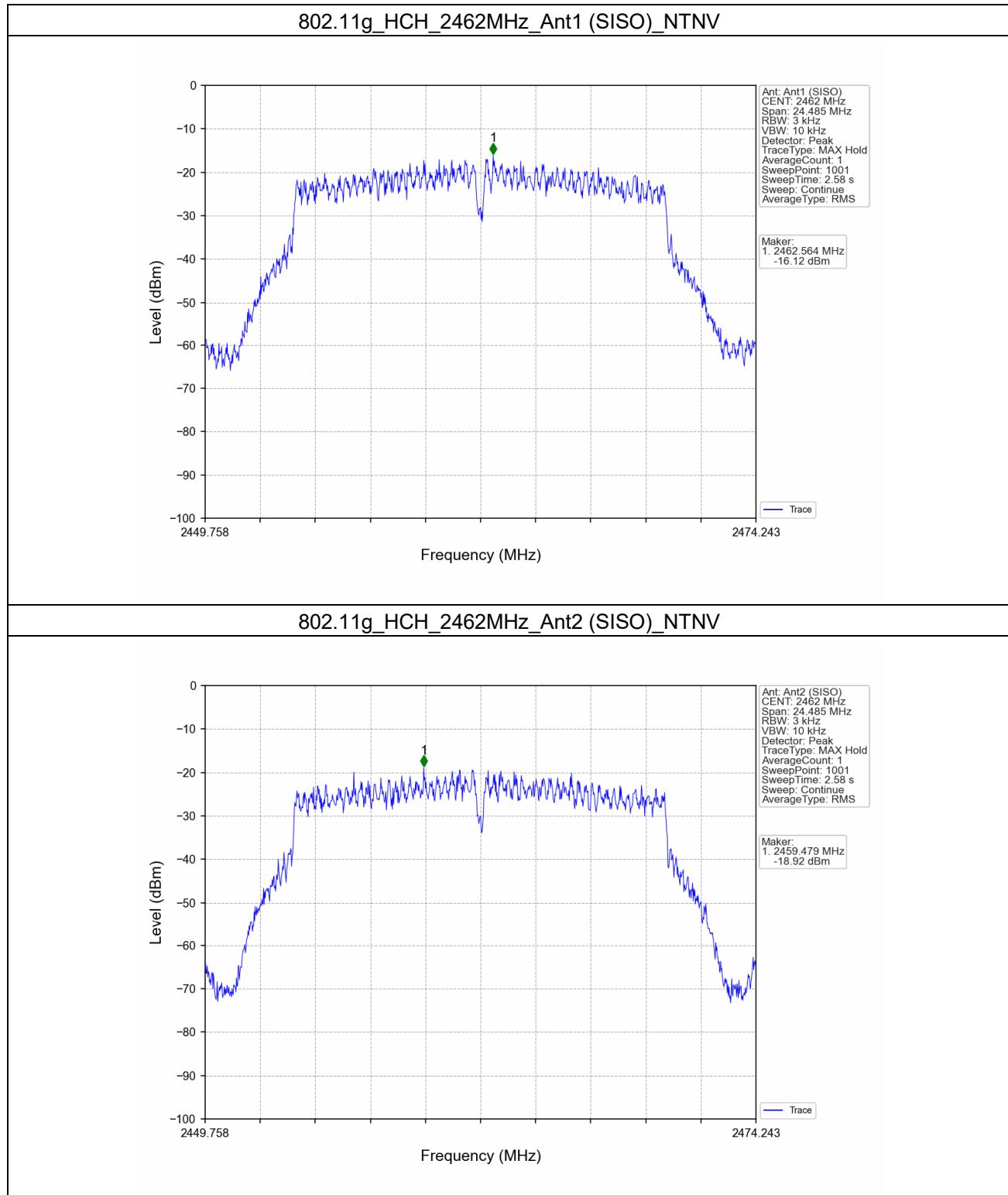
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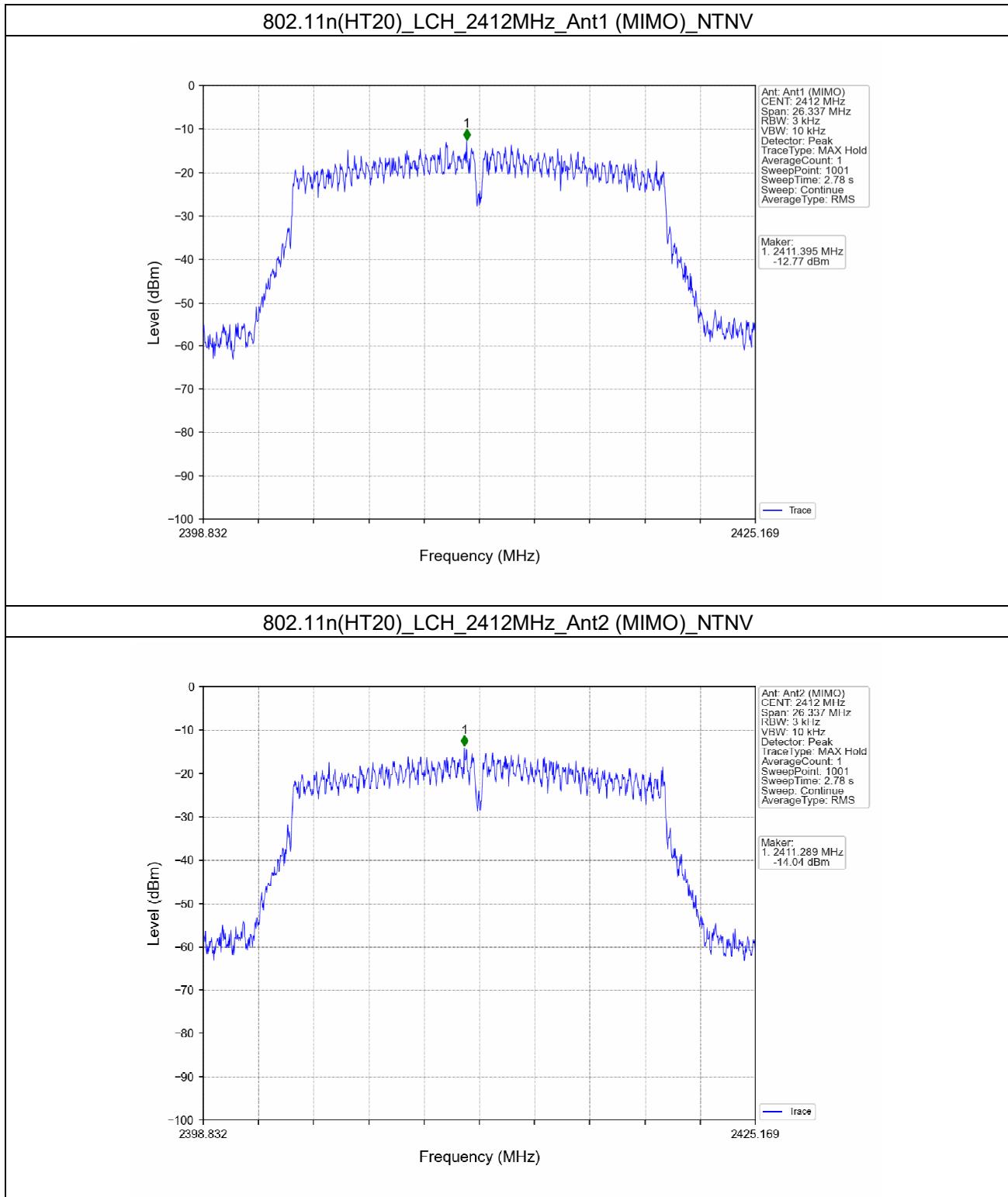
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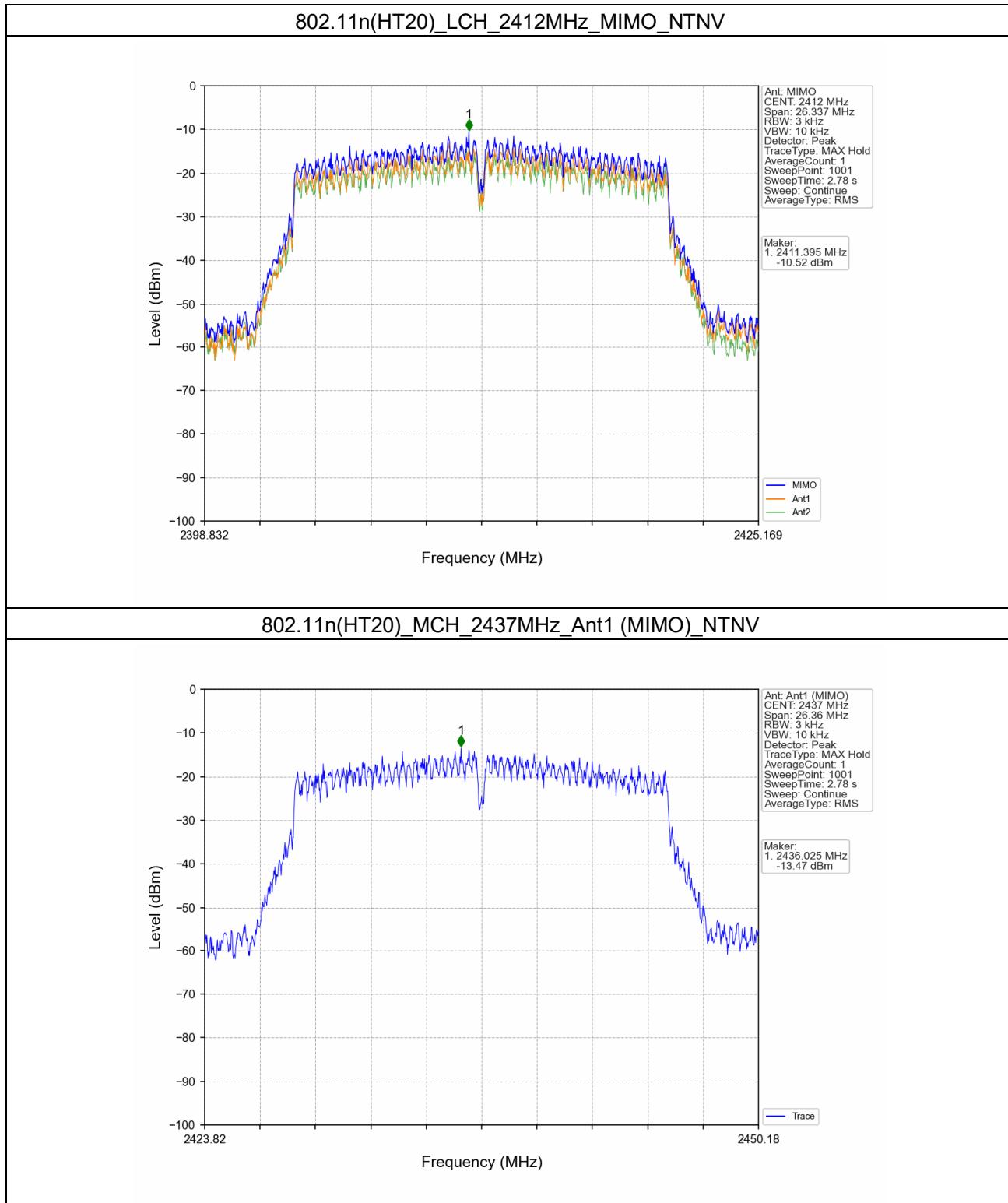
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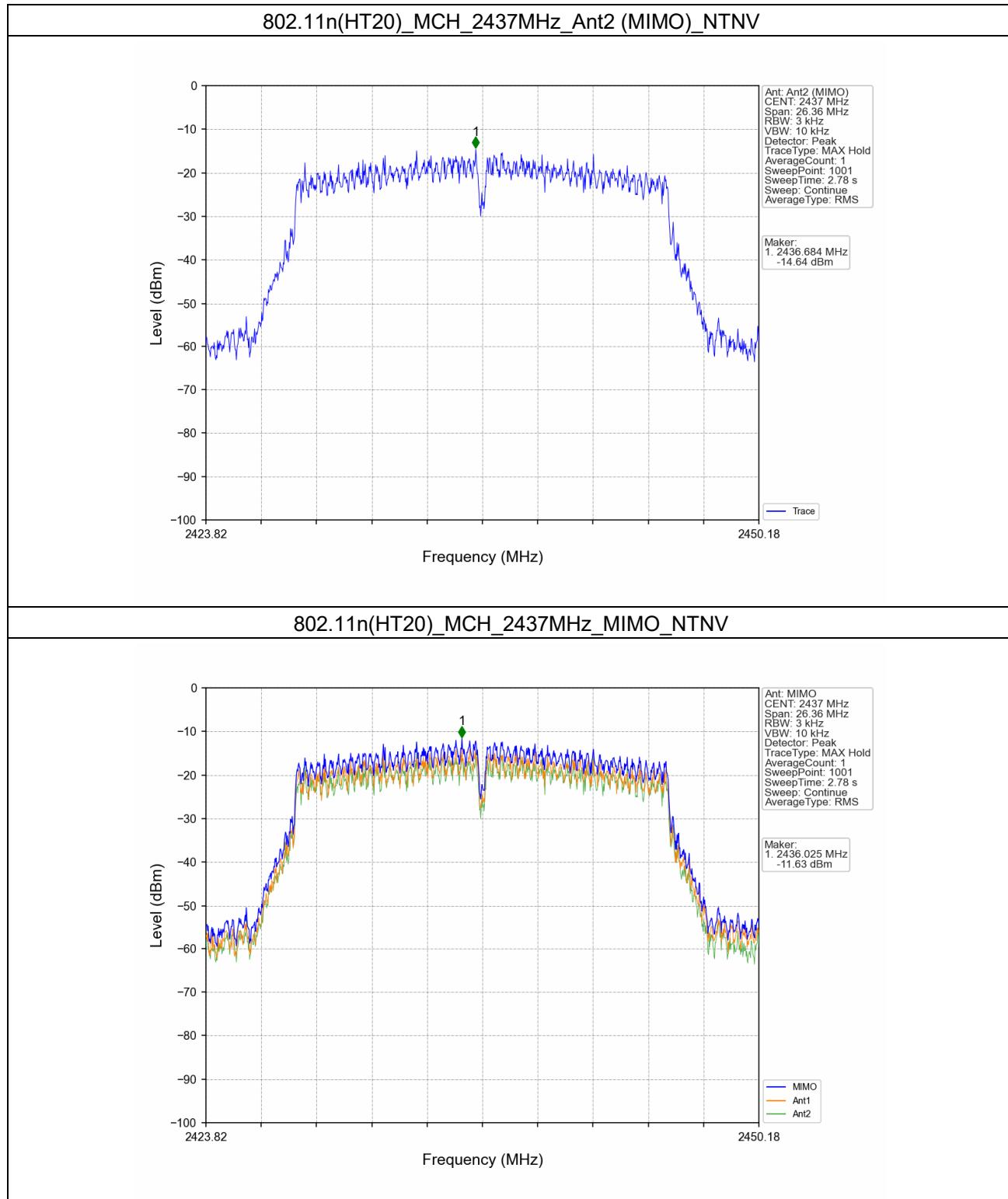
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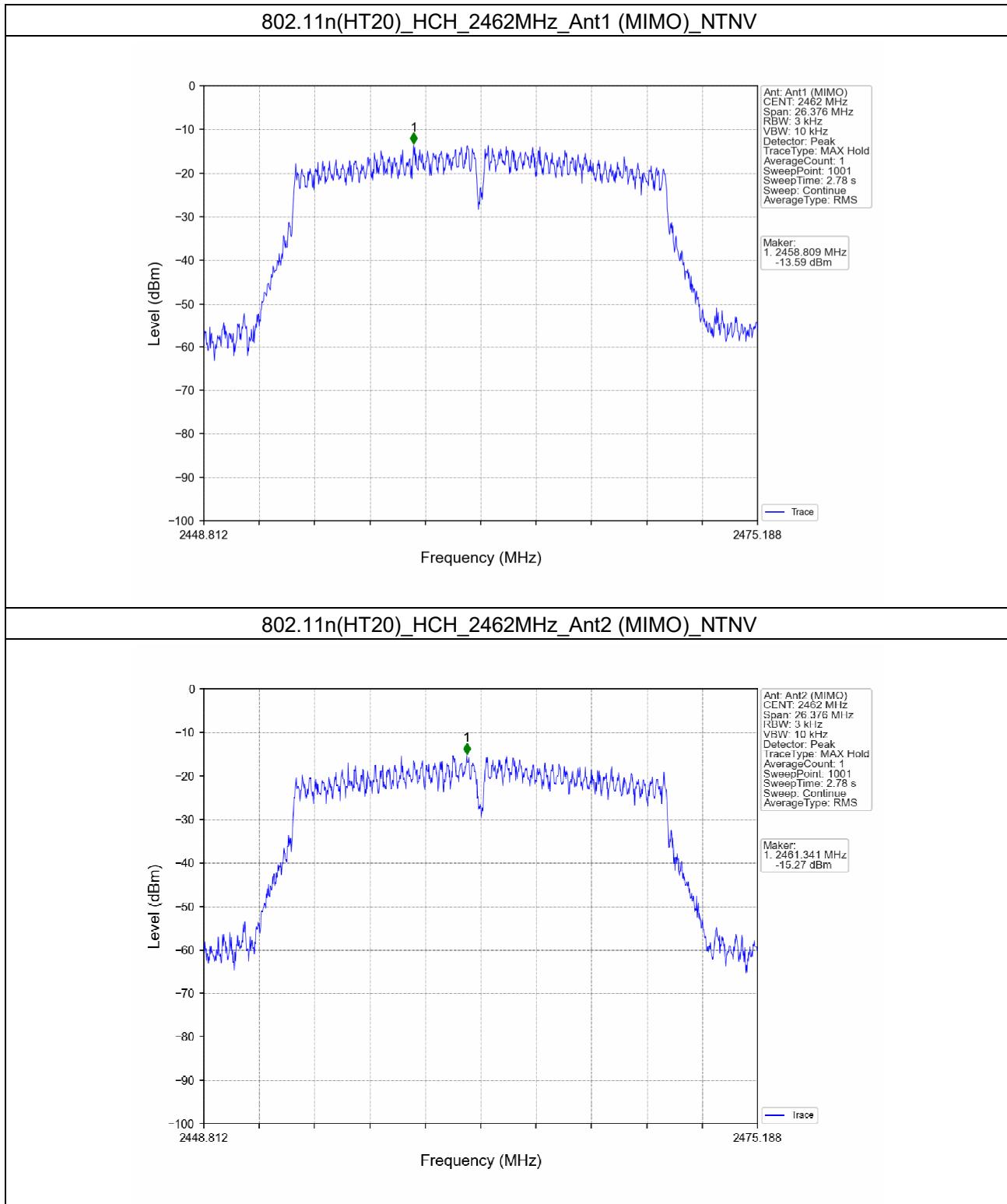
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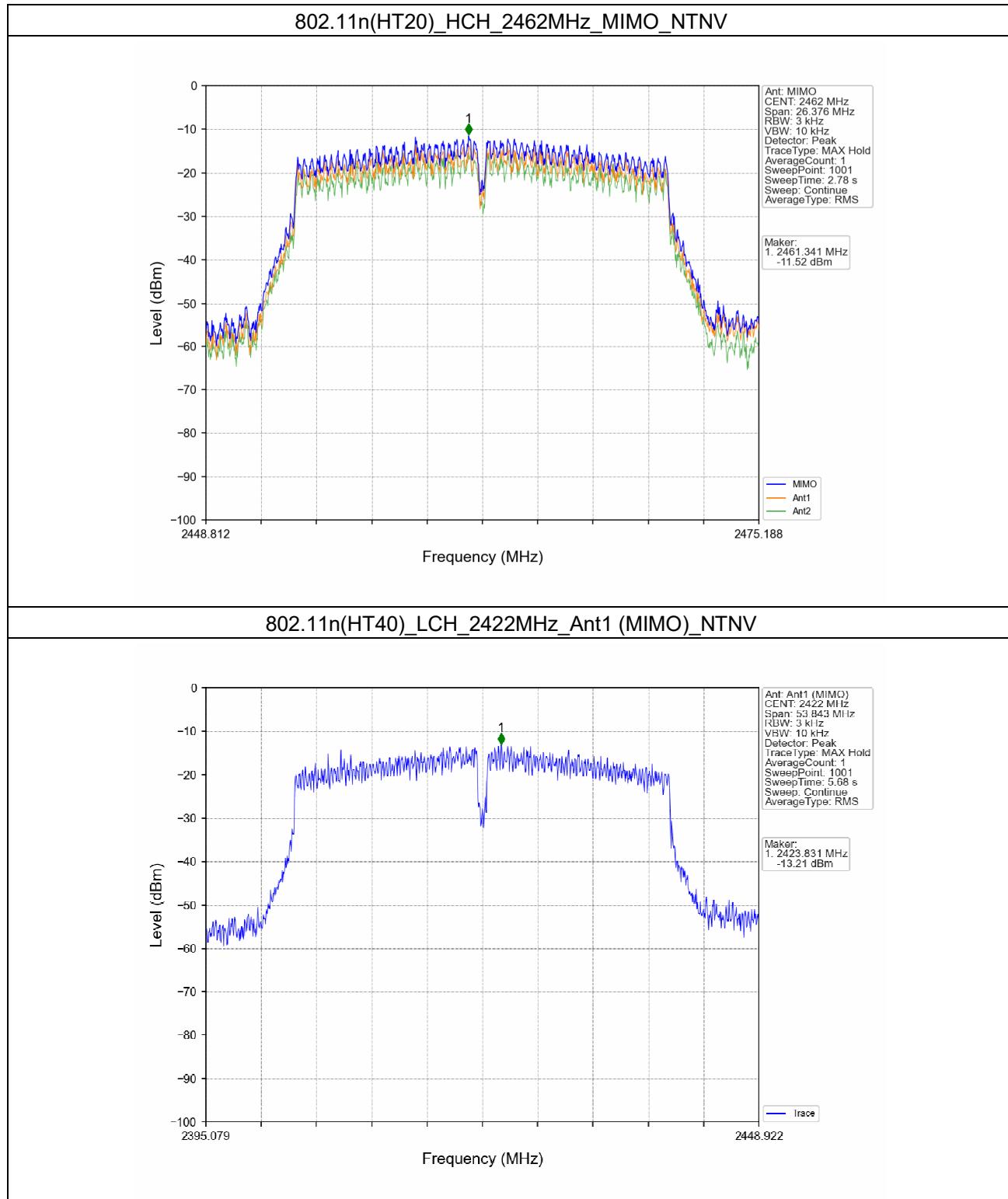
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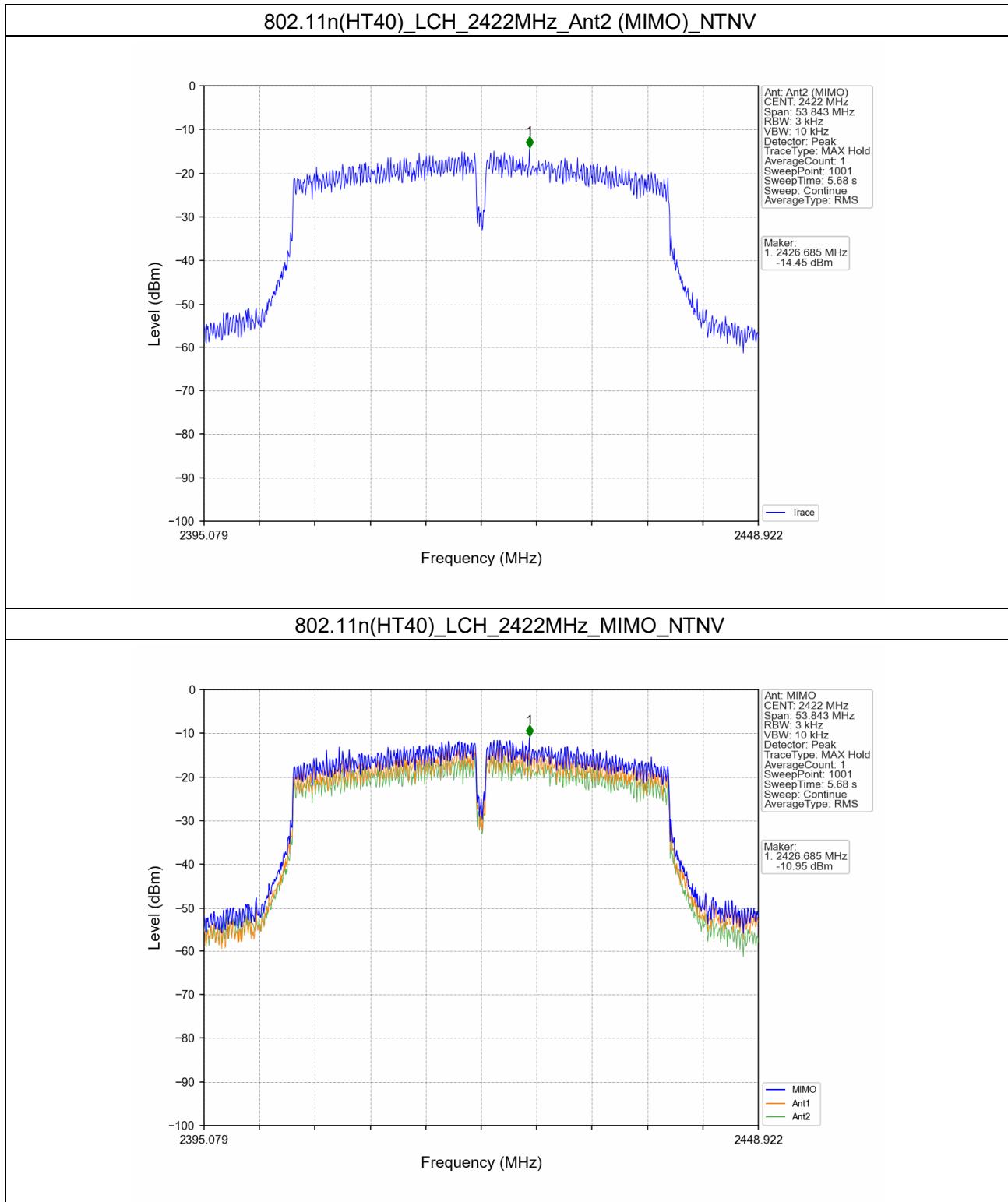
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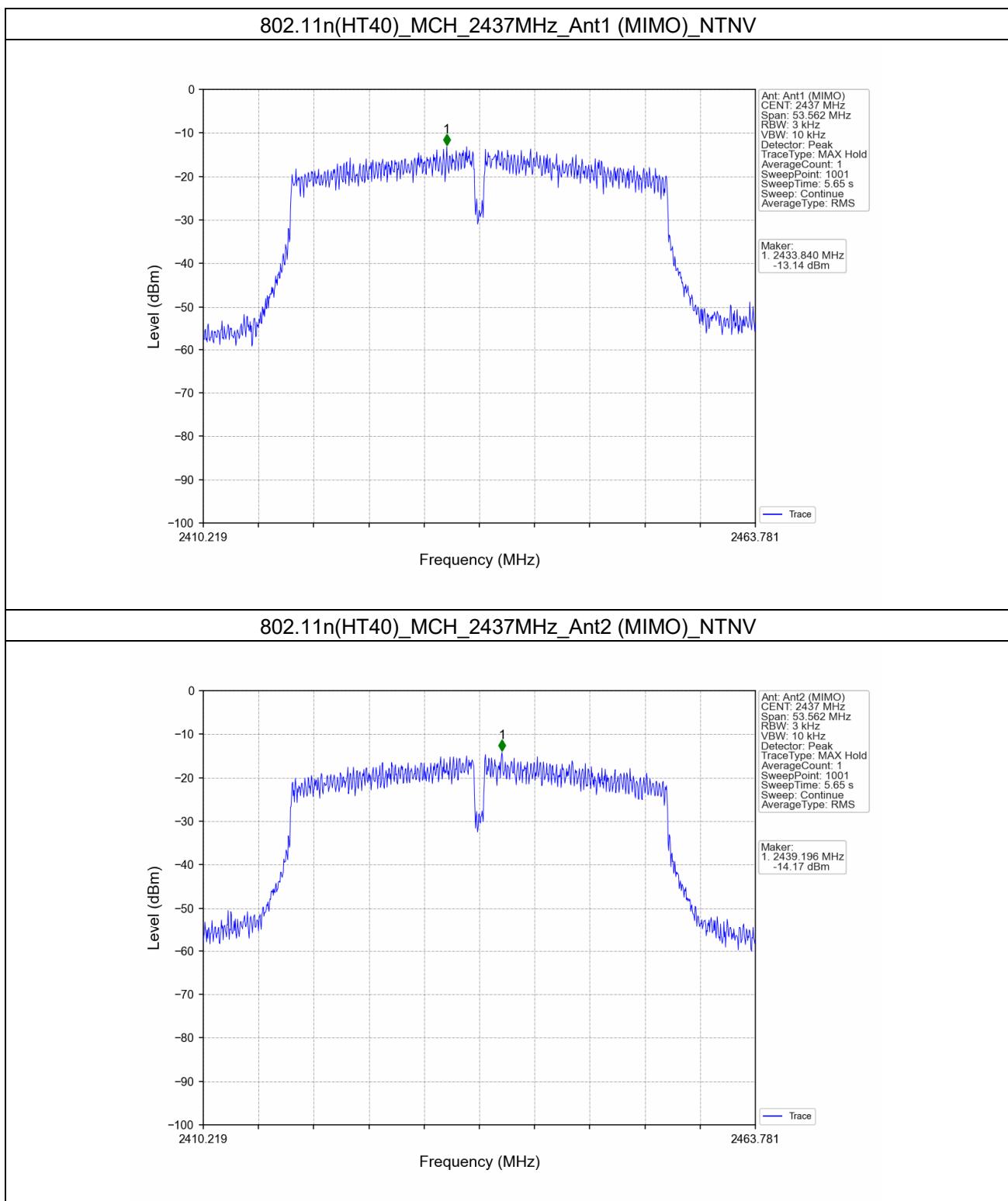
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