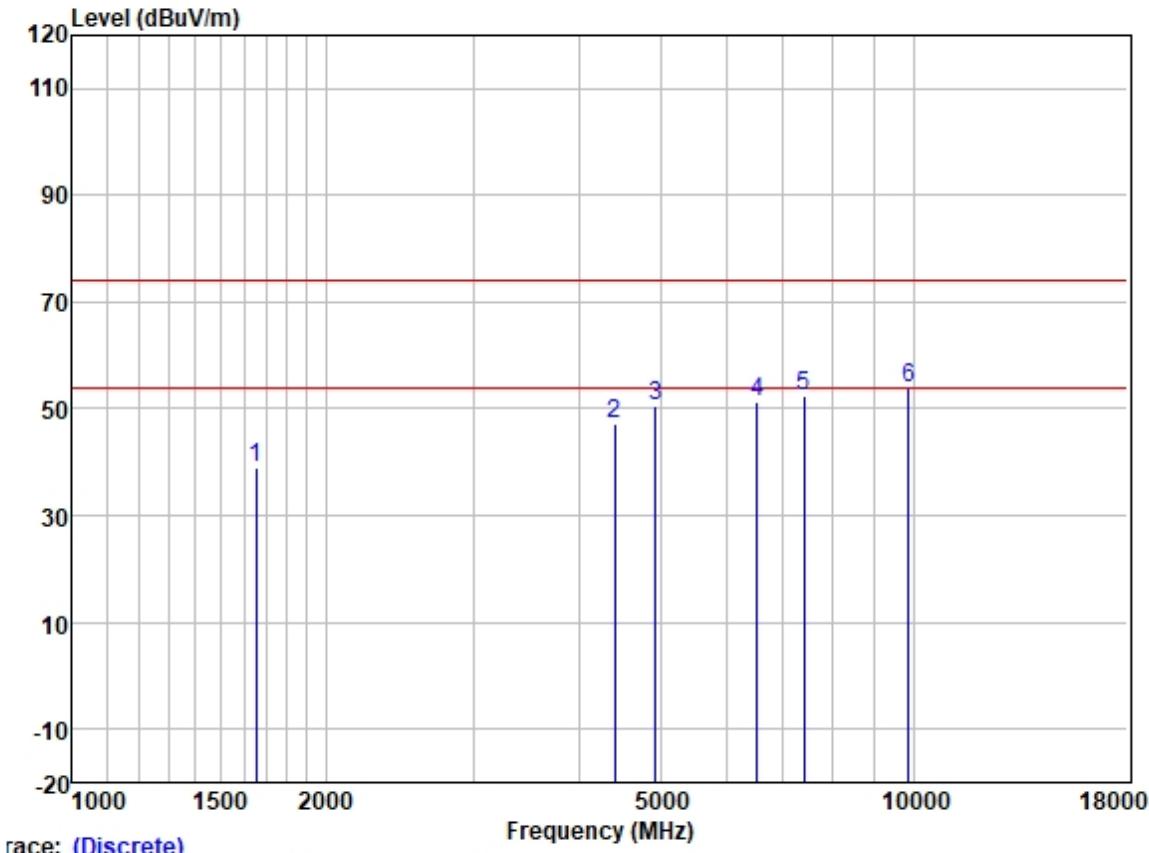


Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:12



Race: (Discrete)

	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1	1653.550	48.52	25.64	2.80	37.93	39.03	74.00	-34.97	HORIZONTAL	Peak		
2	4417.841	48.71	30.70	4.74	36.81	47.34	74.00	-26.66	HORIZONTAL	Peak		
3	4934.000	50.08	31.62	5.60	36.84	50.46	74.00	-23.54	HORIZONTAL	Peak		
4	6526.373	48.45	34.03	5.84	37.02	51.30	74.00	-22.70	HORIZONTAL	Peak		
5	7401.000	47.63	36.22	6.20	37.46	52.59	74.00	-21.41	HORIZONTAL	Peak		
6	9868.000	45.60	38.60	6.98	37.41	53.77	74.00	-20.23	HORIZONTAL	Peak		

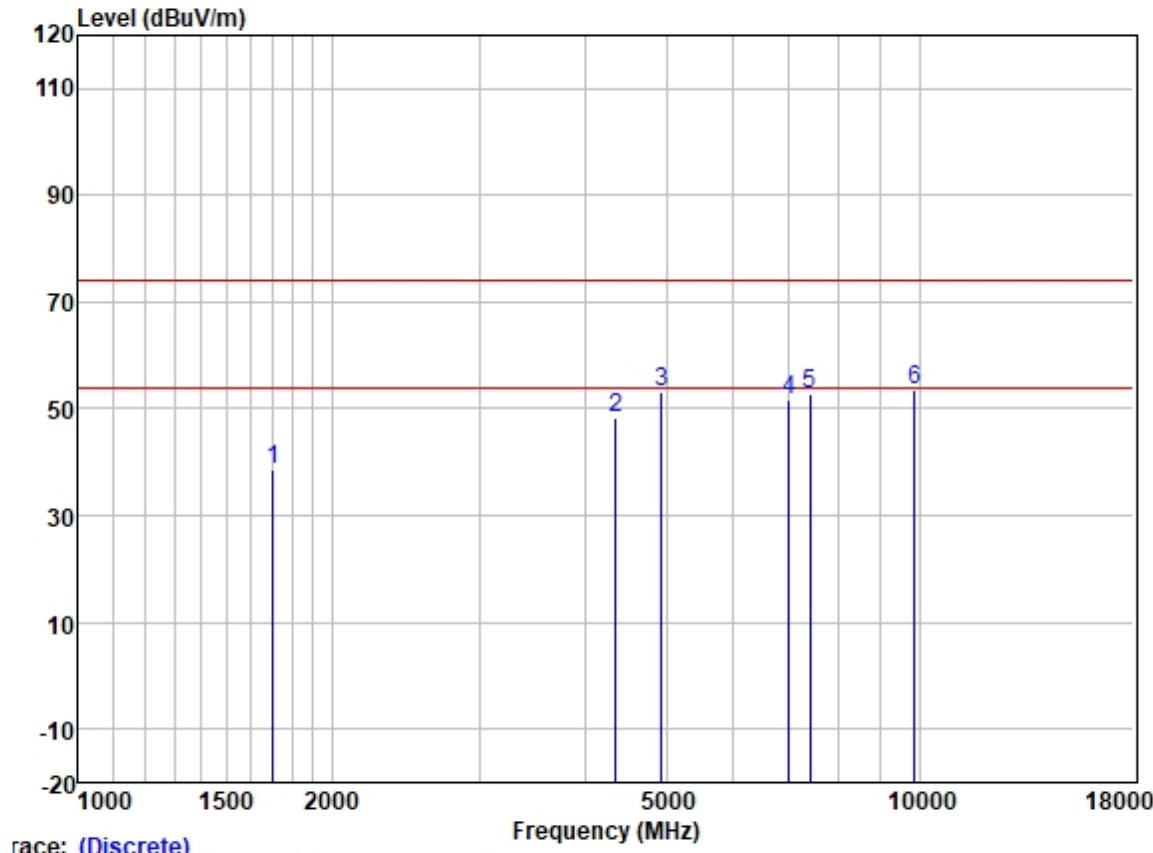
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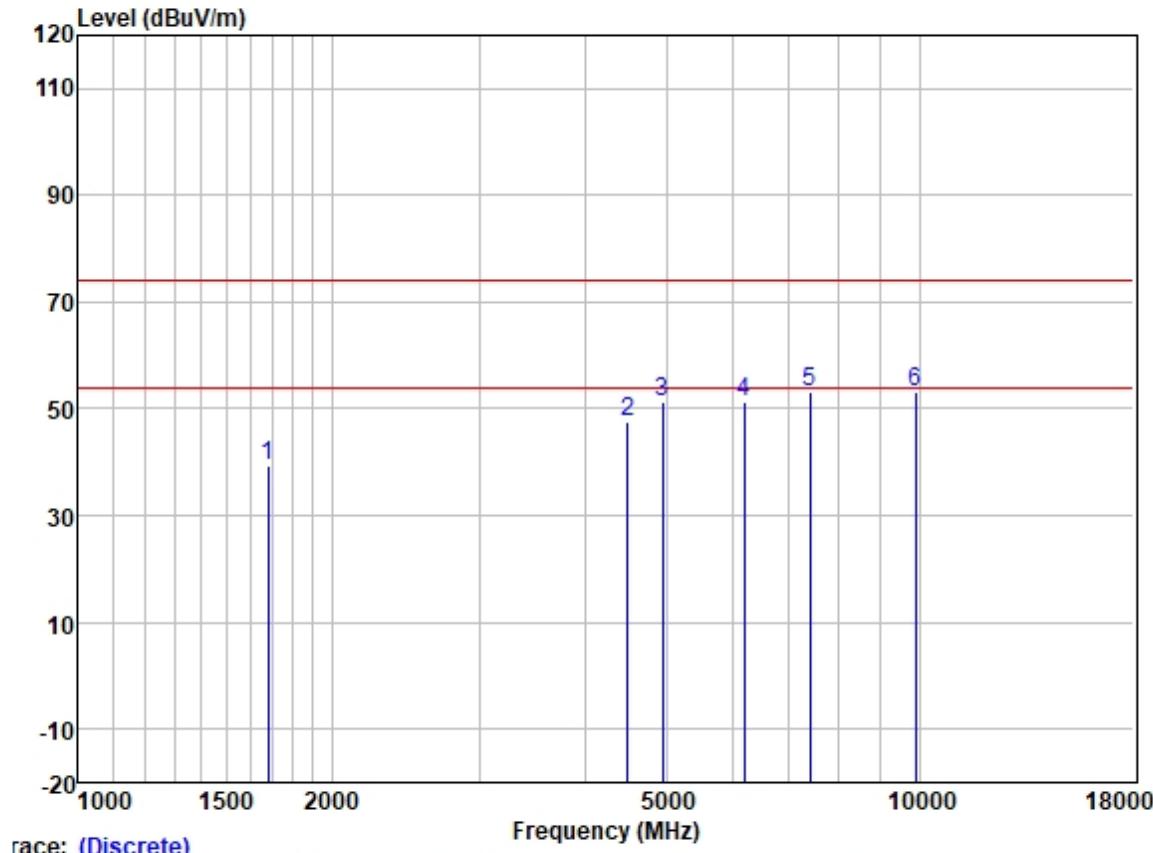


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:12



Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:13



Mode: (Discrete)

ReadAntenna	Cable	Preamp	Limit	Over	Race			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	dB	dB		
1 1682.477	48.74	25.68	2.80	37.91	39.31	74.00	-34.69	HORIZONTAL	Peak					
2 4495.125	48.51	30.80	5.05	36.82	47.54	74.00	-26.46	HORIZONTAL	Peak					
3 4944.000	50.93	31.64	5.62	36.84	51.35	74.00	-22.65	HORIZONTAL	Peak					
4 6195.508	49.32	32.96	6.07	36.94	51.41	74.00	-22.59	HORIZONTAL	Peak					
5 7416.000	48.20	36.22	6.20	37.47	53.15	74.00	-20.85	HORIZONTAL	Peak					
6 9888.000	44.89	38.63	6.97	37.41	53.08	74.00	-20.92	HORIZONTAL	Peak					

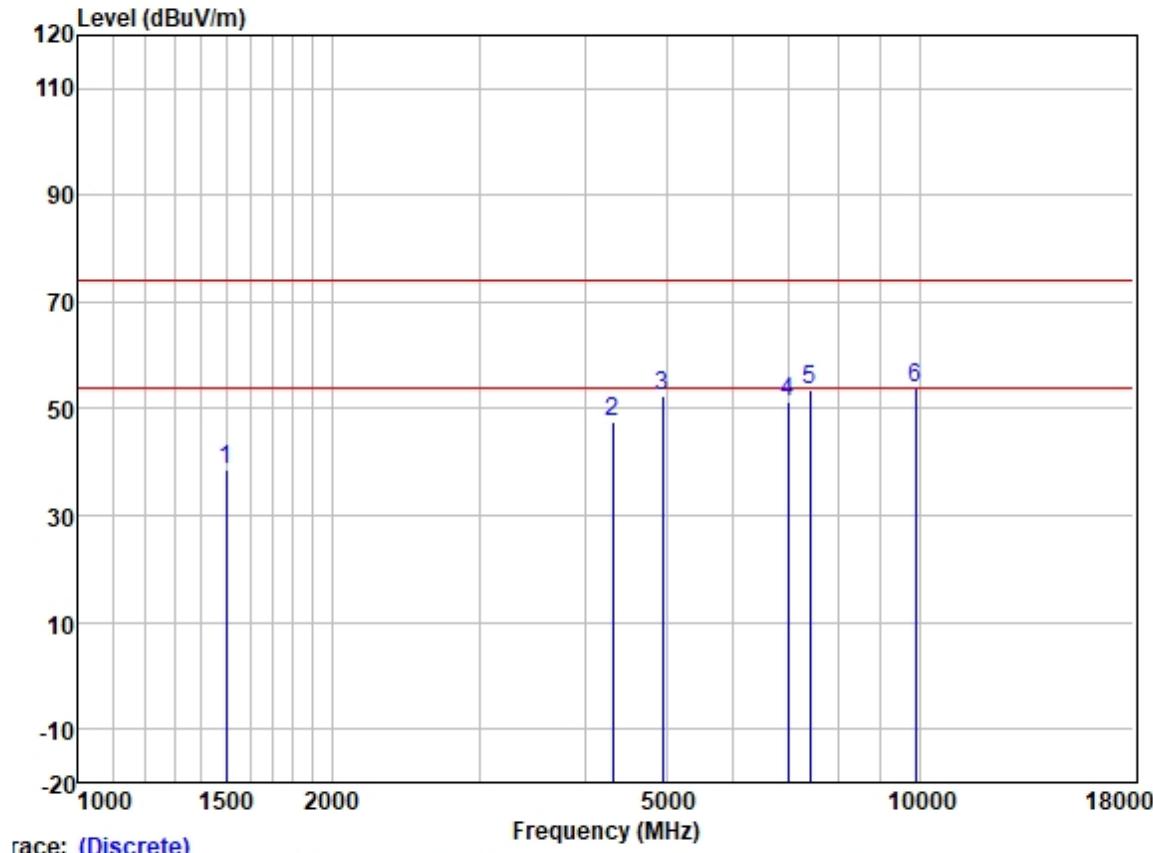
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:13



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1	1498.781	48.56	25.50	2.80	38.10	38.76	74.00	-35.24	VERTICAL	Peak	
2	4316.859	49.14	30.51	4.66	36.81	47.50	74.00	-26.50	VERTICAL	Peak	
3	4944.000	52.07	31.64	5.62	36.84	52.49	74.00	-21.51	VERTICAL	Peak	
4	6974.982	47.67	34.97	5.81	37.23	51.22	74.00	-22.78	VERTICAL	Peak	
5	7416.000	48.66	36.22	6.20	37.47	53.61	74.00	-20.39	VERTICAL	Peak	
6	9888.000	45.56	38.63	6.97	37.41	53.75	74.00	-20.25	VERTICAL	Peak	

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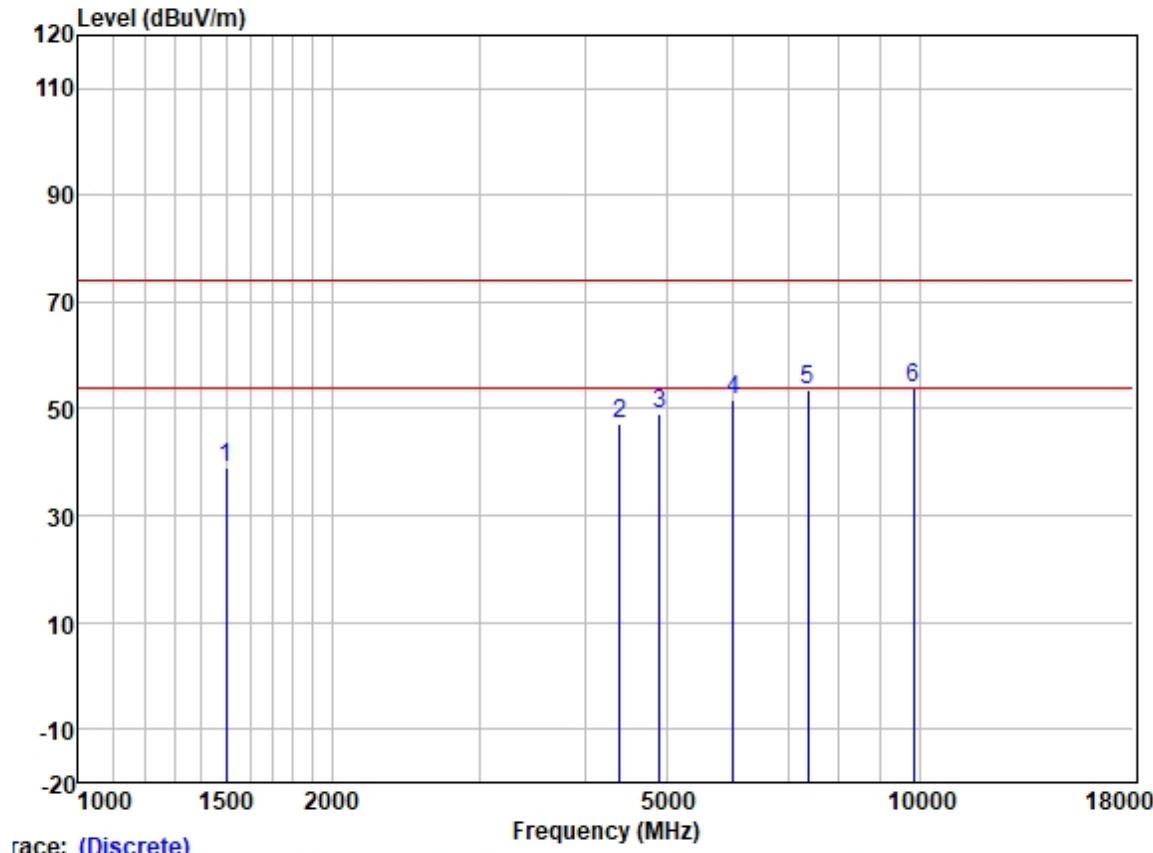
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:10

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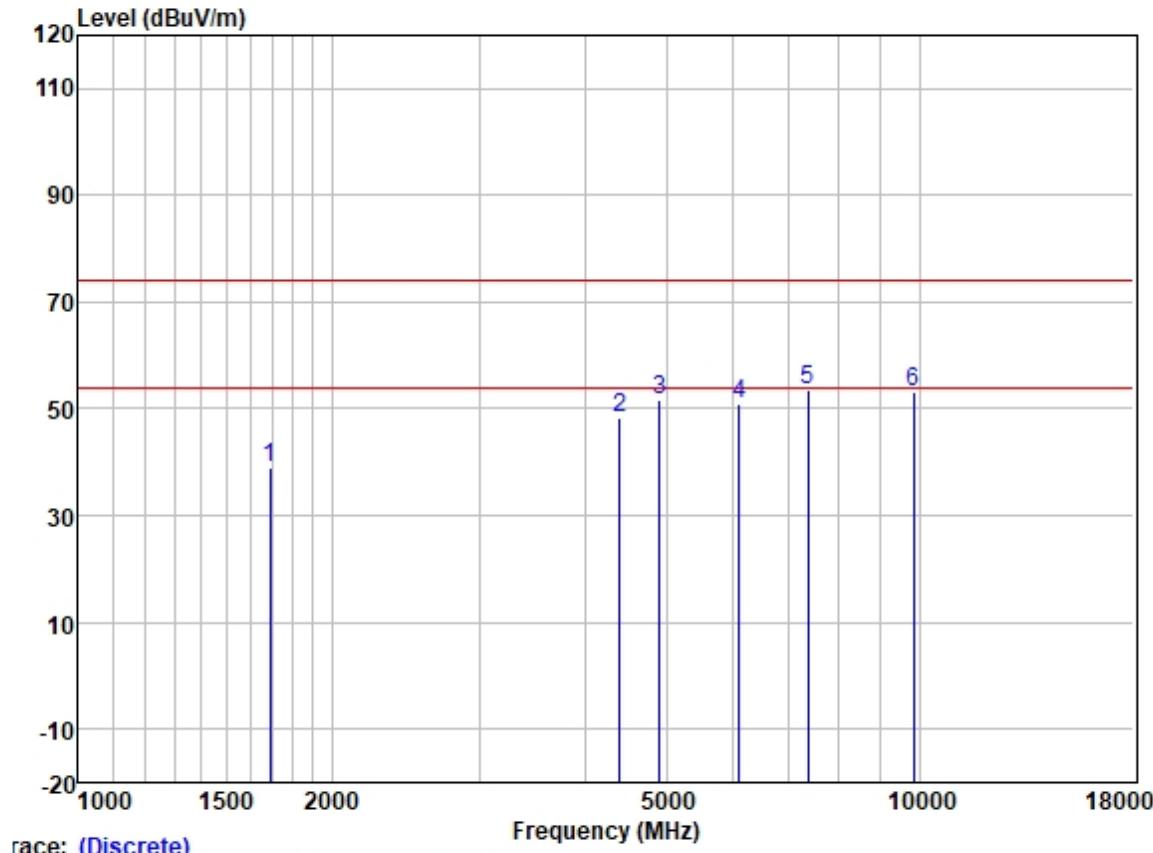
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:10



ReadAntenna	Cable	Preamp	Limit	Over	Race: (Discrete)								
					Freq	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB						
1 1692.231	48.49	25.70	2.80	37.89	39.10	74.00	-34.90	VERTICAL	Peak				
2 4405.090	49.64	30.68	4.70	36.81	48.21	74.00	-25.79	VERTICAL	Peak				
3 4914.000	51.31	31.60	5.58	36.84	51.65	74.00	-22.35	VERTICAL	Peak				
4 6106.616	49.15	32.66	6.14	36.92	51.03	74.00	-22.97	VERTICAL	Peak				
5 7371.000	48.89	36.12	6.17	37.45	53.73	74.00	-20.27	VERTICAL	Peak				
6 9828.000	45.02	38.58	6.99	37.41	53.18	74.00	-20.82	VERTICAL	Peak				

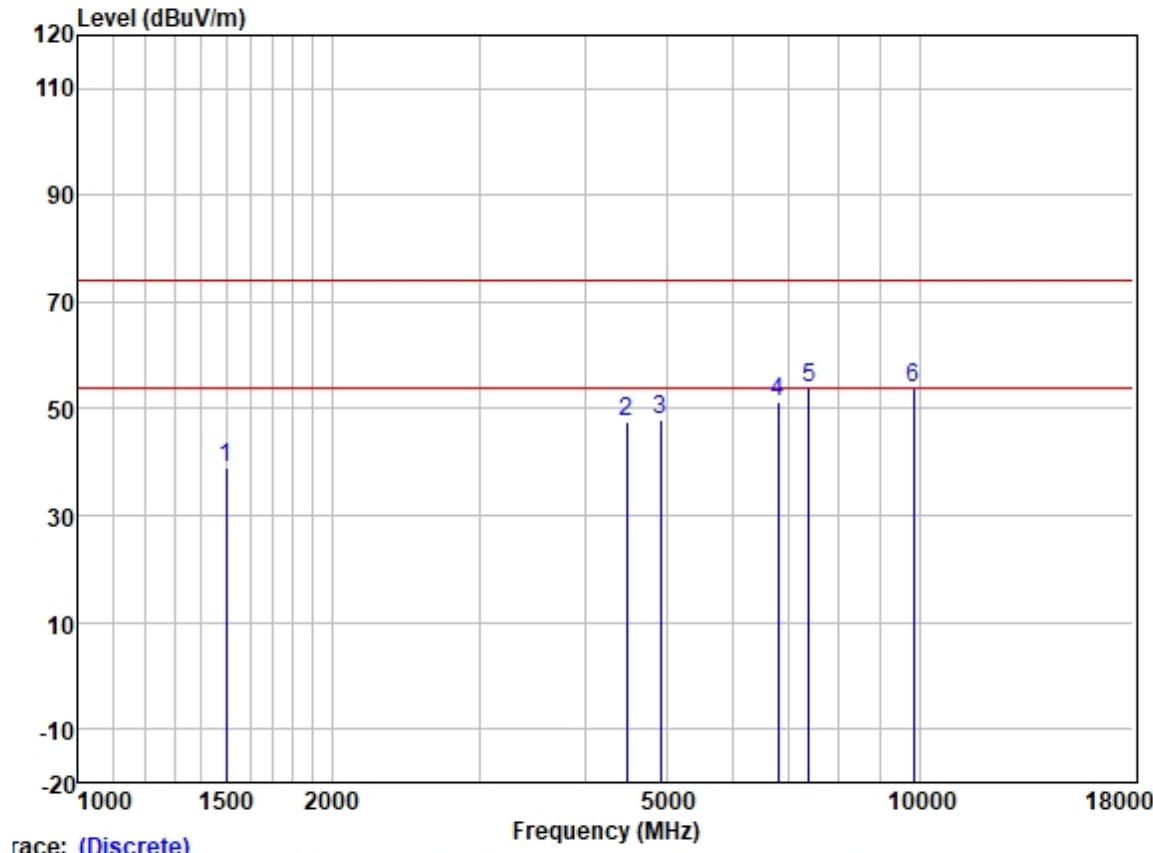
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:11



Race: (Discrete)

	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1	1498.781	48.85	25.50	2.80	38.10	39.05	74.00	-34.95	HORIZONTAL	Peak		
2	4482.150	48.62	30.78	4.99	36.81	47.58	74.00	-26.42	HORIZONTAL	Peak		
3	4924.000	47.71	31.62	5.60	36.84	48.09	74.00	-25.91	HORIZONTAL	Peak		
4	6795.879	48.10	34.66	5.82	37.12	51.46	74.00	-22.54	HORIZONTAL	Peak		
5	7386.000	48.93	36.17	6.19	37.45	53.84	74.00	-20.16	HORIZONTAL	Peak		
6	9848.000	45.59	38.58	6.99	37.41	53.75	74.00	-20.25	HORIZONTAL	Peak		

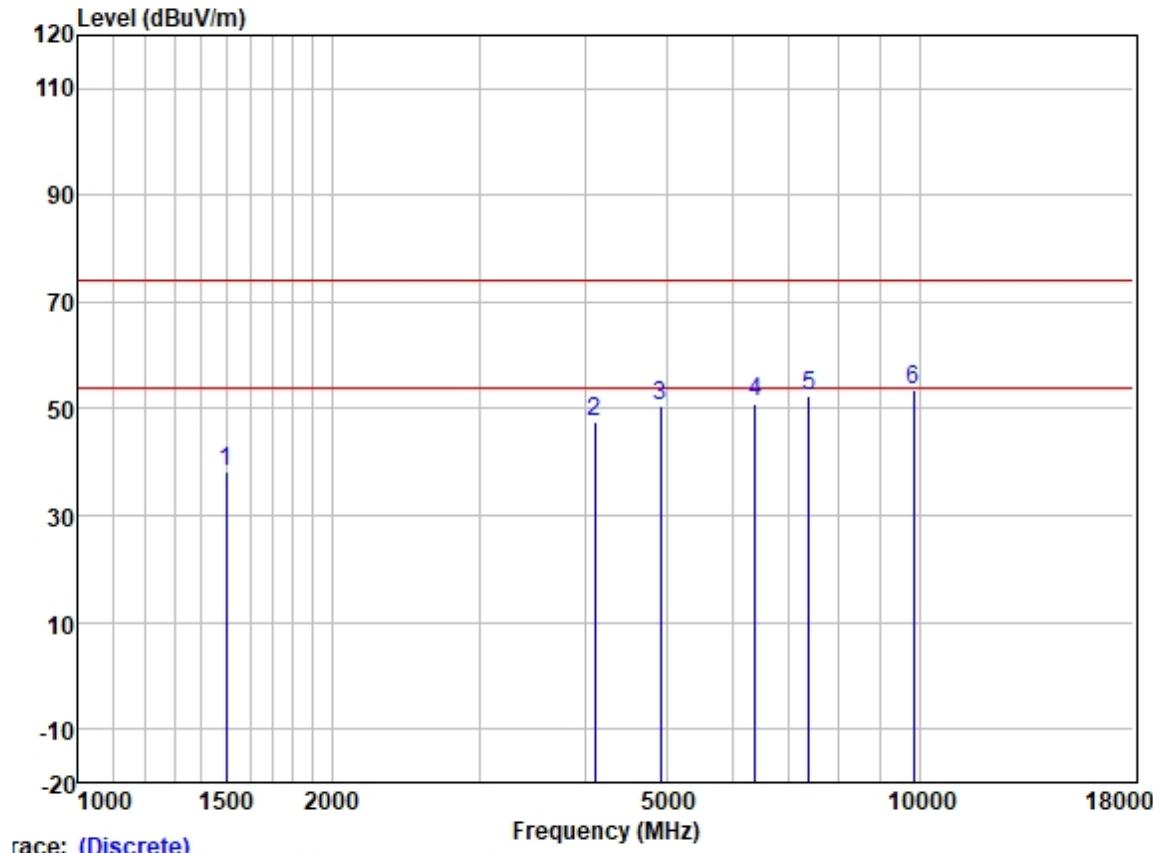
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:11



ReadAntenna	Cable	Preamp	Limit	Over	Remark							
					Freq	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB		
1 1498.781	48.03	25.50	2.80	38.10	38.23	74.00	-35.77	VERTICAL	Peak			
2 4109.872	49.66	29.96	4.60	36.80	47.42	74.00	-26.58	VERTICAL	Peak			
3 4924.000	50.15	31.62	5.60	36.84	50.53	74.00	-23.47	VERTICAL	Peak			
4 6377.195	48.51	33.68	5.91	36.98	51.12	74.00	-22.88	VERTICAL	Peak			
5 7386.000	47.67	36.17	6.19	37.45	52.58	74.00	-21.42	VERTICAL	Peak			
6 9848.000	45.44	38.58	6.99	37.41	53.60	74.00	-20.40	VERTICAL	Peak			

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## 8 Test Setup Photo

Refer to appendix – Test Setup Photos for GZCR211021432AT



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## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR211021432AT



## 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 (%)
11B	SISO	2467	8.686	8.886	97.75	0.10	1.41
		2472	8.690	8.870	97.97	0.09	1.19
11G	SISO	2467	1.440	1.646	87.48	0.58	7.25
		2472	1.440	1.655	87.01	0.60	7.73
11N20	MIMO	2467	1.336	1.551	86.14	0.65	7.66
		2472	1.335	1.542	86.58	0.63	6.53
11N40	MIMO	2457	0.656	0.844	77.73	1.09	11.46
		2462	0.656	0.861	76.19	1.18	10.93

Note: Both antennas have been tested, only recorded the worst test data in this report.

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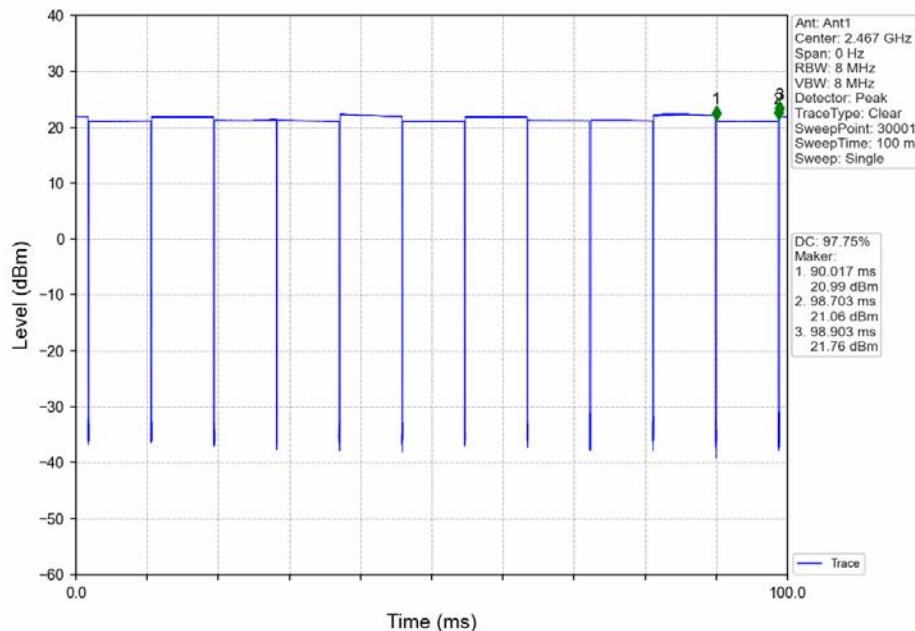
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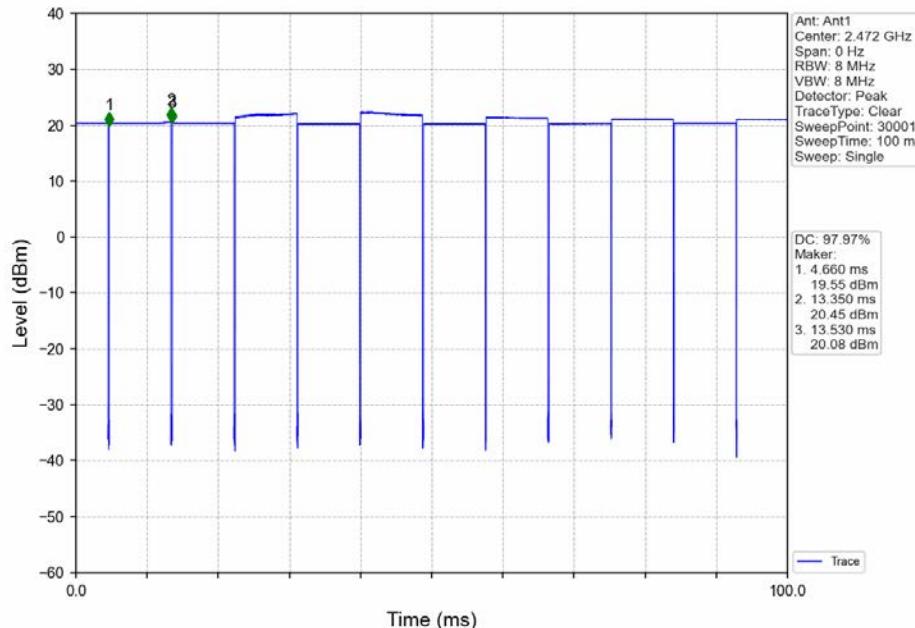
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## 1.1.2 Test Graph

11B\_MCH\_2467MHz\_Ant1\_NTNV

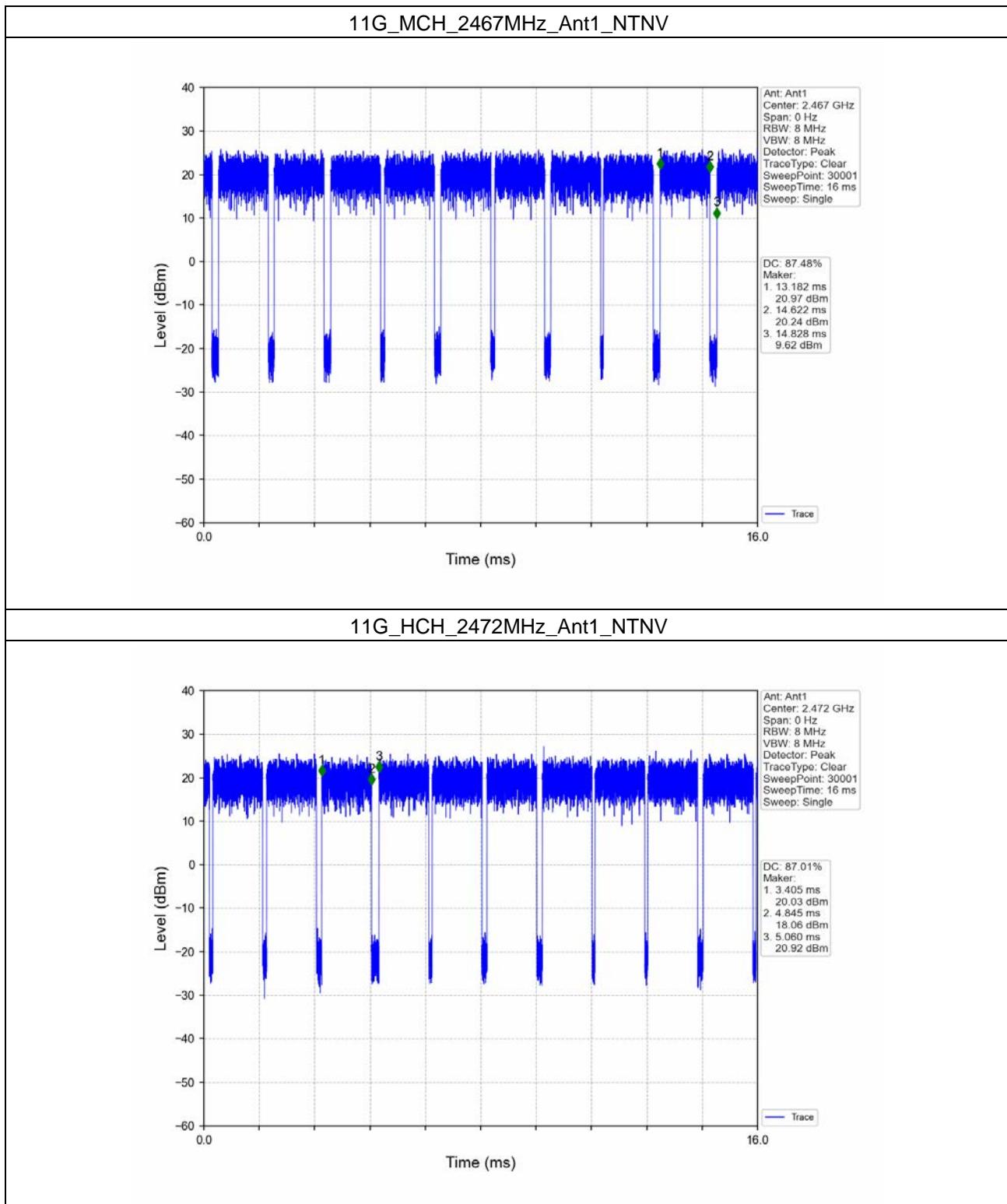


11B\_HCH\_2472MHz\_Ant1\_NTNV



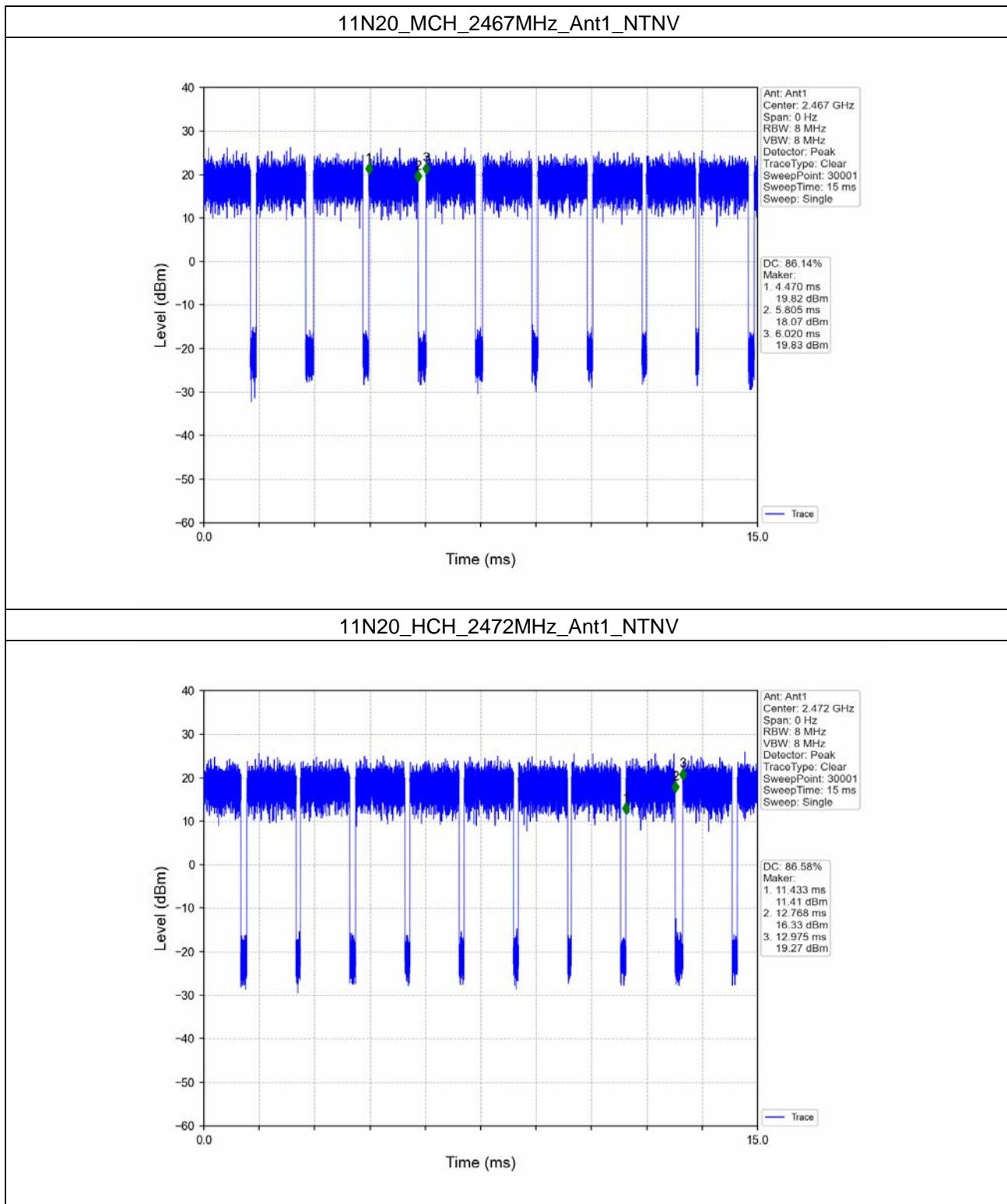
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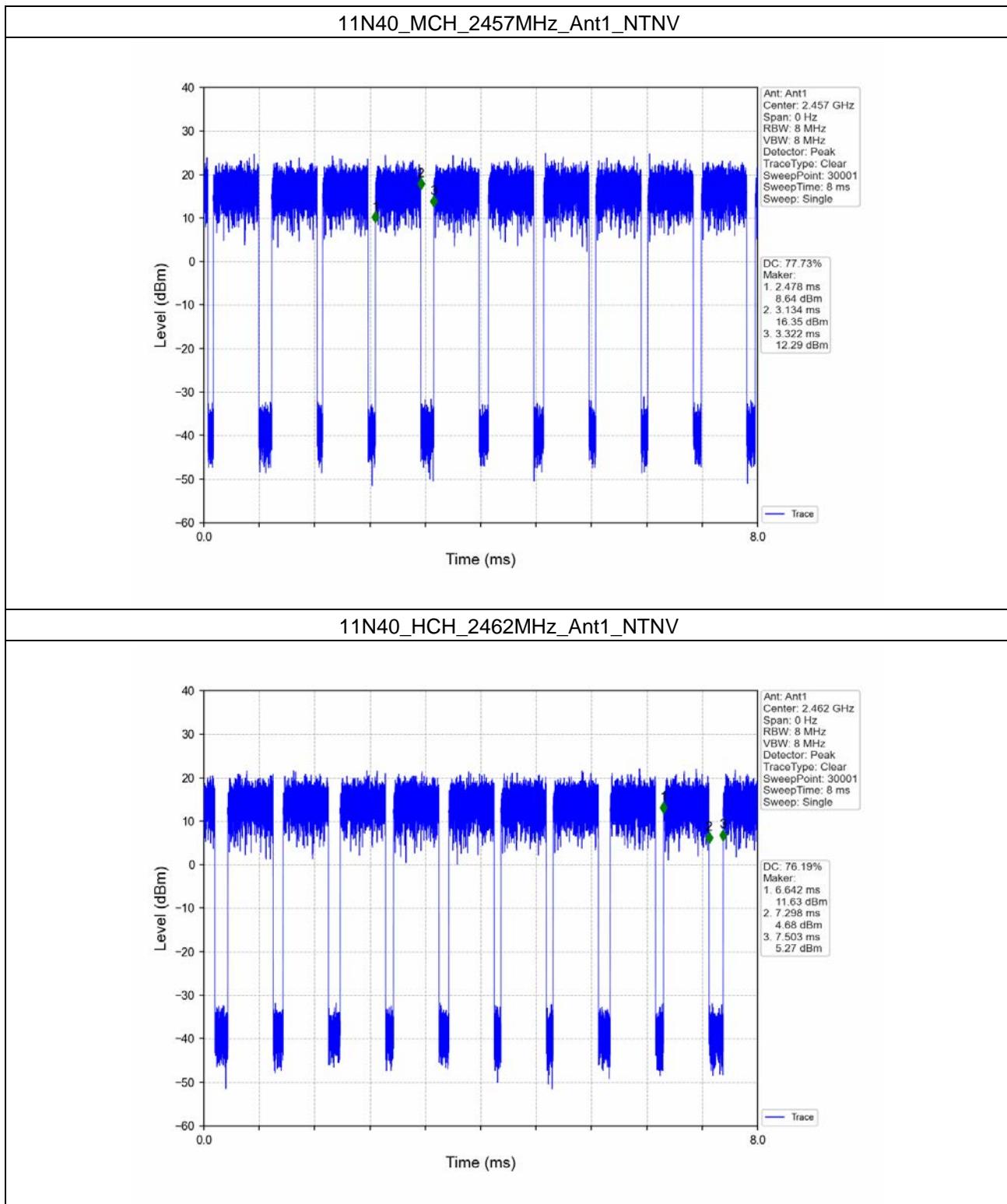
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**2. Bandwidth****2.1 6dB BW****2.1.1 Test Result**

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
11B	SISO	2467	1	9.623	>=0.5	Pass
			2	9.615	>=0.5	Pass
		2472	1	10.089	>=0.5	Pass
			2	9.616	>=0.5	Pass
11G	SISO	2467	1	15.445	>=0.5	Pass
			2	15.776	>=0.5	Pass
		2472	1	15.161	>=0.5	Pass
			2	15.132	>=0.5	Pass
11N20	MIMO	2467	1	16.104	>=0.5	Pass
			2	17.000	>=0.5	Pass
		2472	1	15.804	>=0.5	Pass
			2	16.349	>=0.5	Pass
11N40	MIMO	2457	1	16.372	>=0.5	Pass
			2	17.634	>=0.5	Pass
		2462	1	20.128	>=0.5	Pass
			2	22.602	>=0.5	Pass

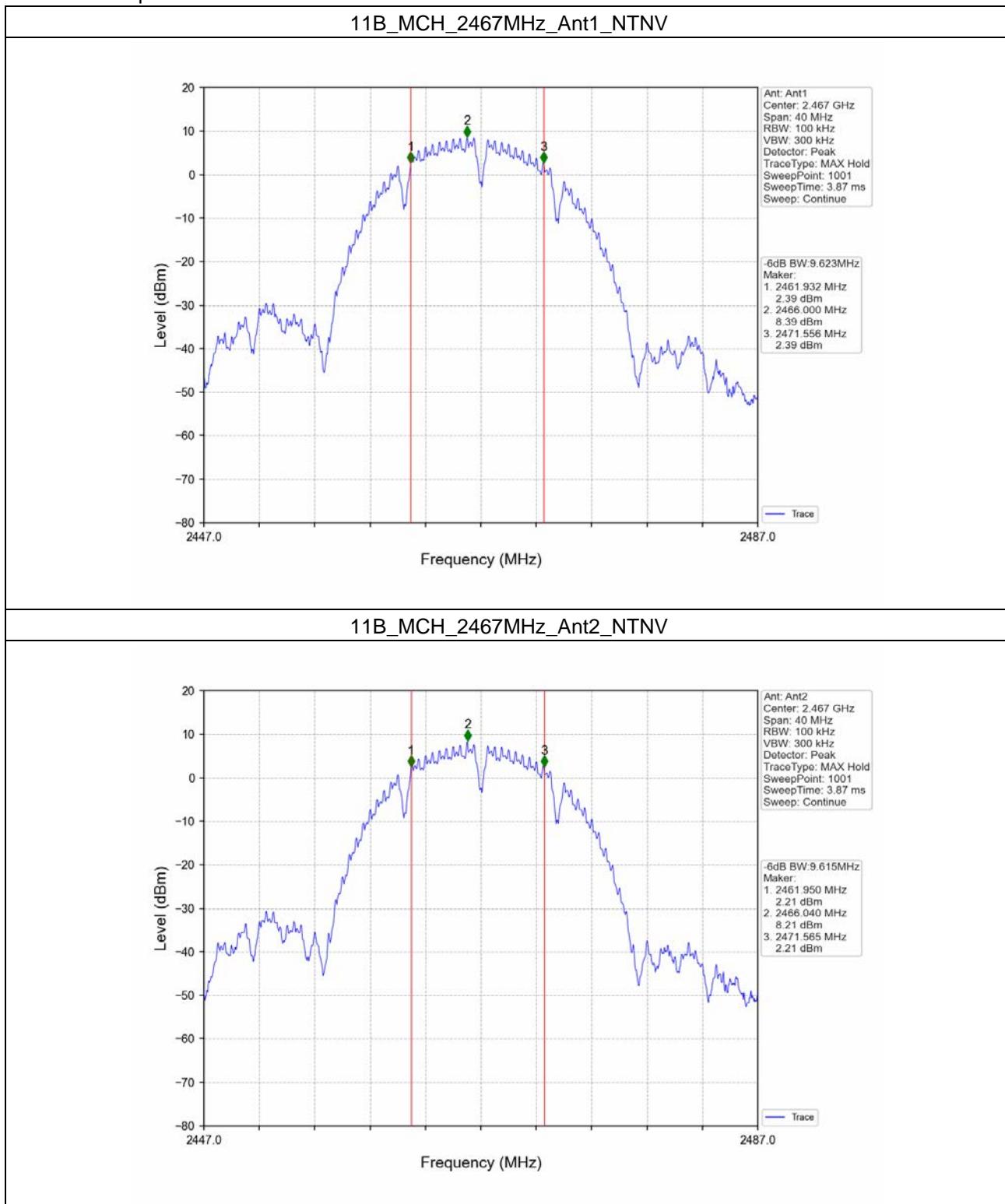
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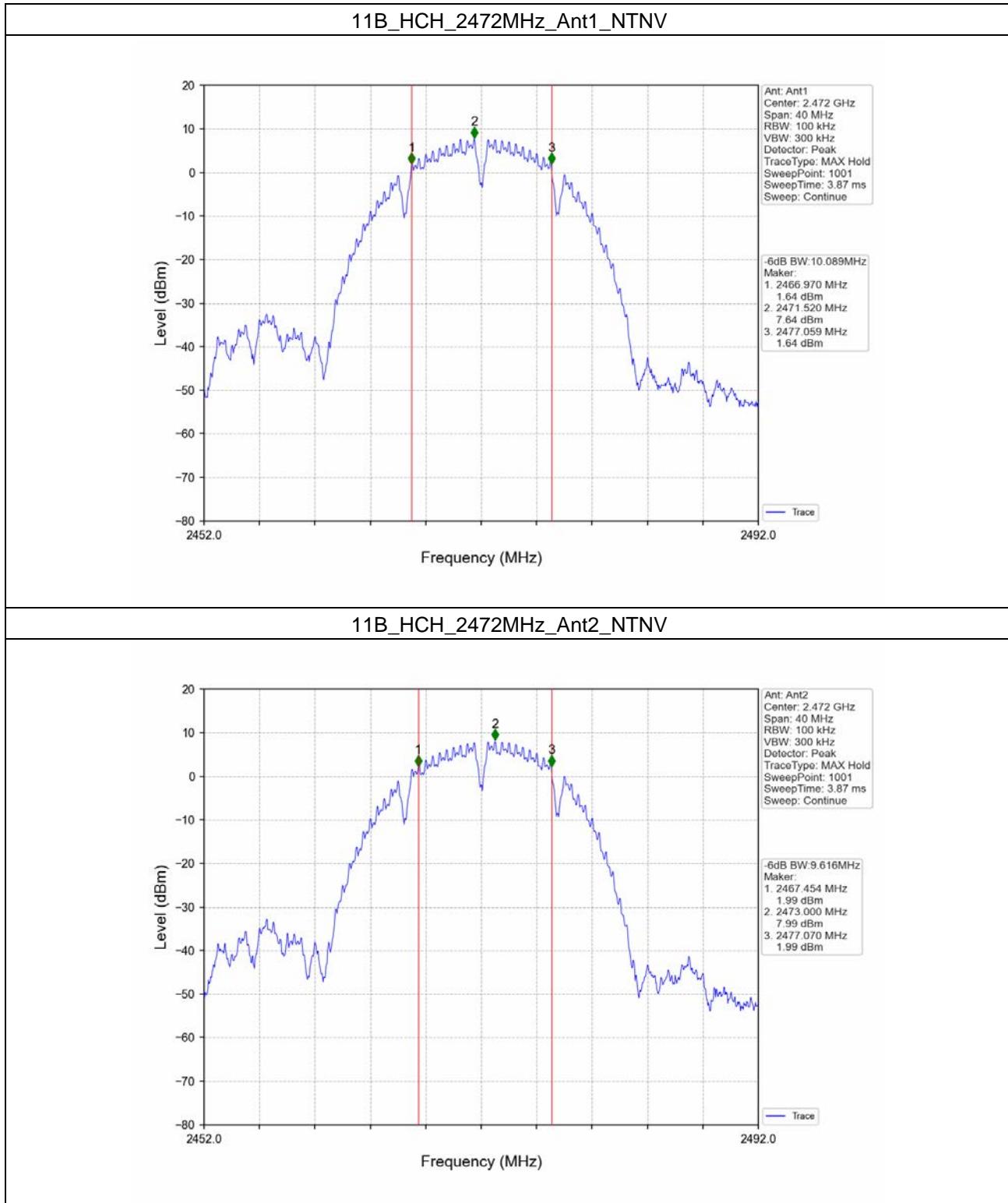
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## 2.1.2 Test Graph



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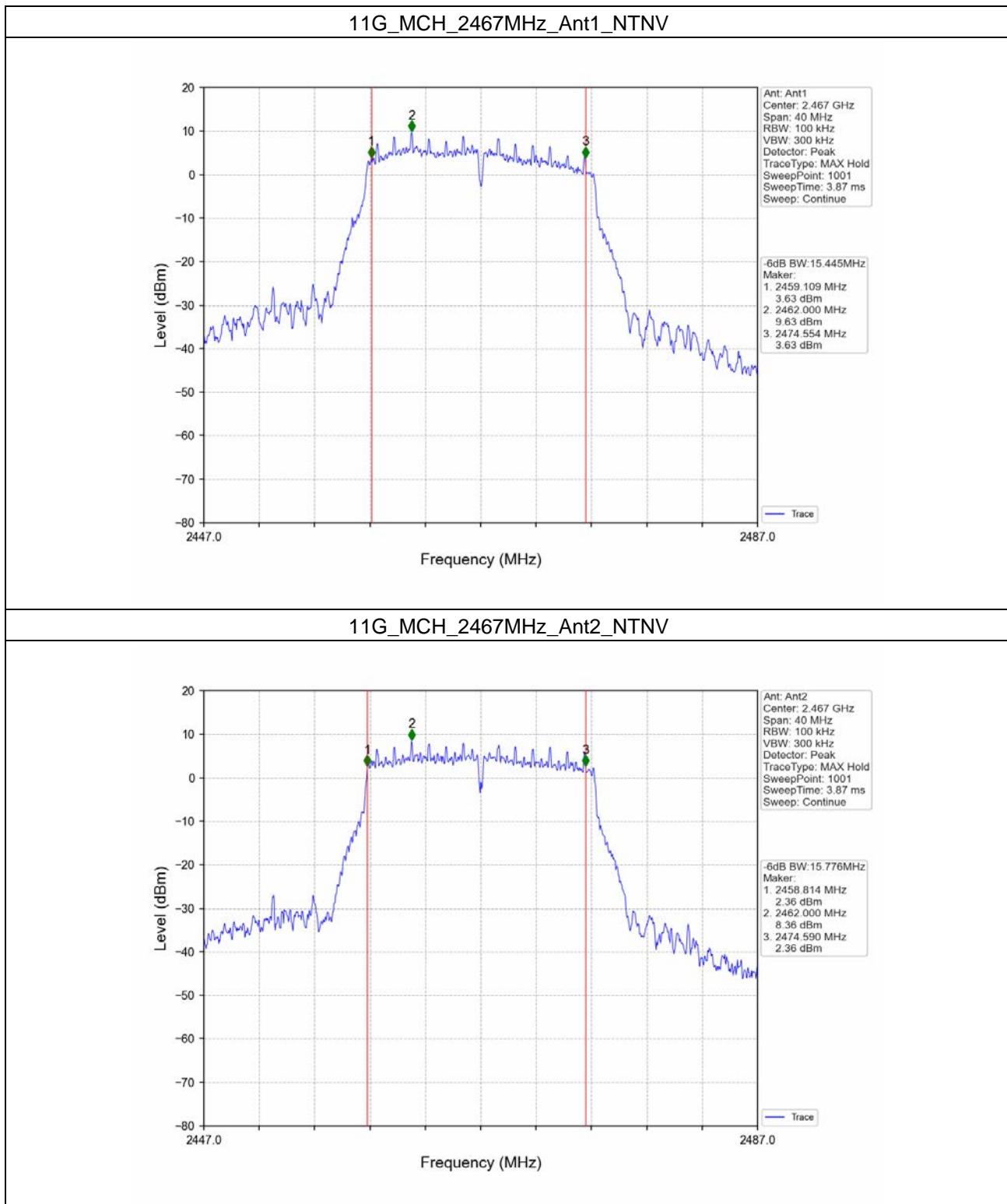
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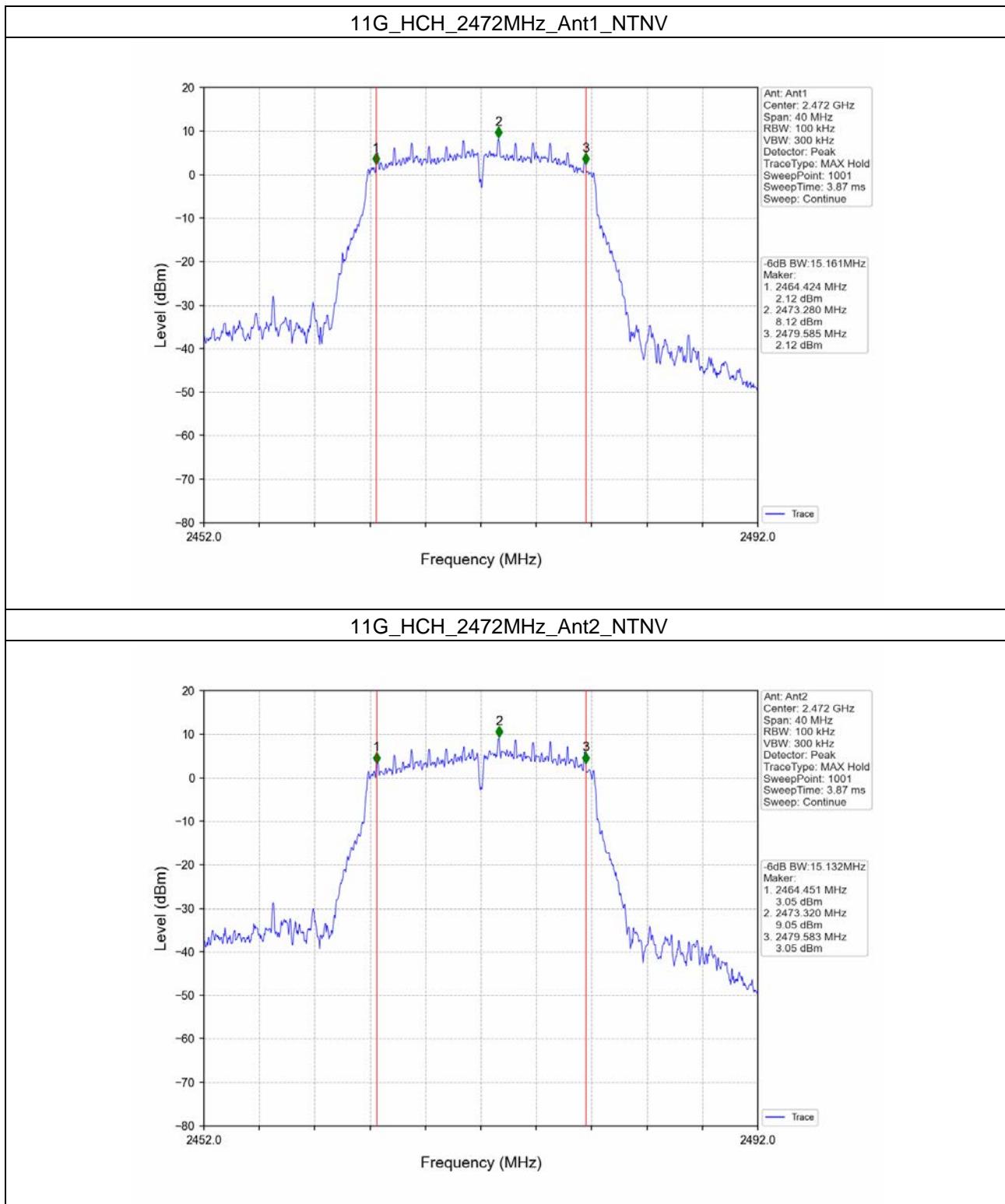
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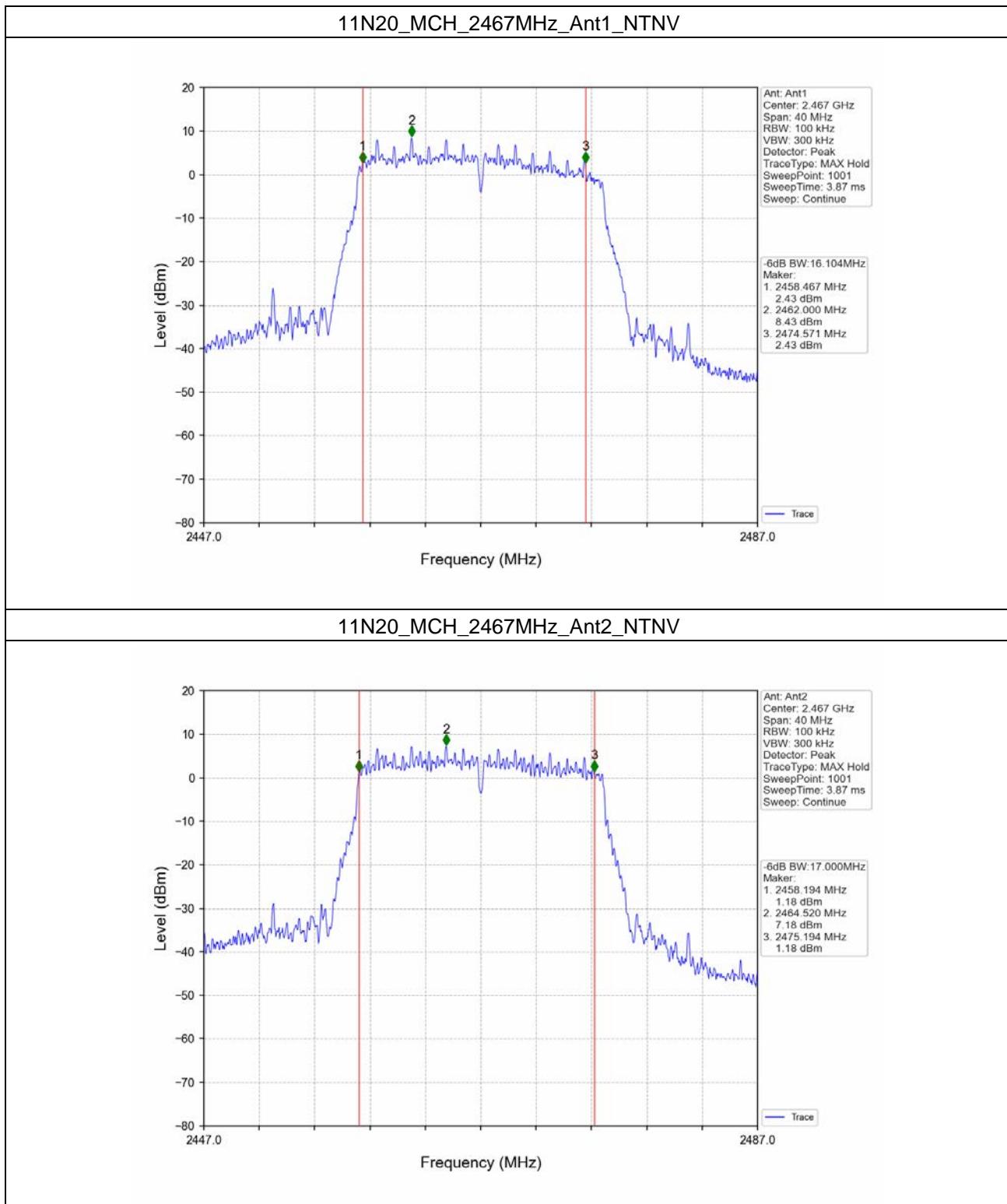
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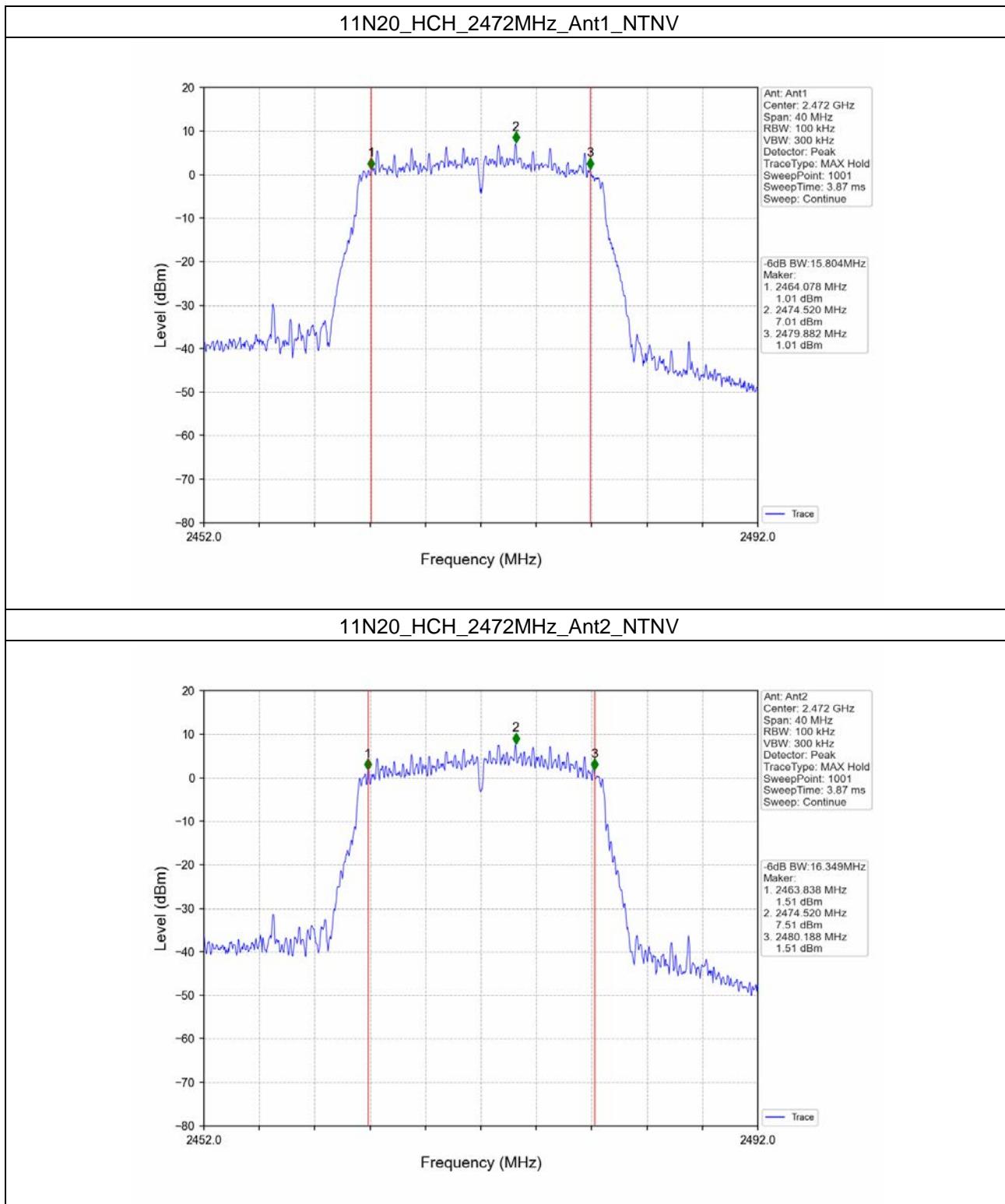
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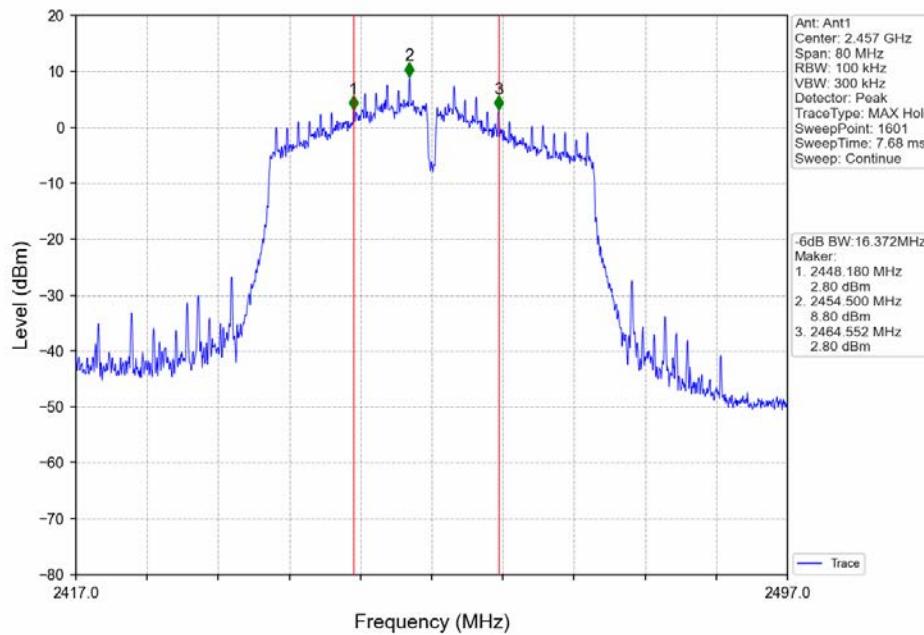
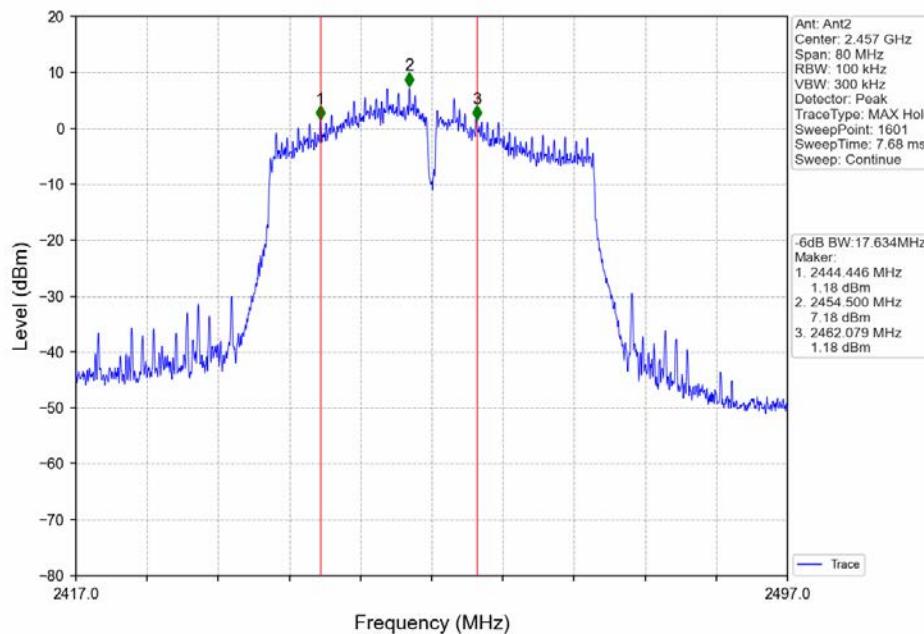
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**11N40\_MCH\_2457MHz\_Ant1\_NTNV****11N40\_MCH\_2457MHz\_Ant2\_NTNV**

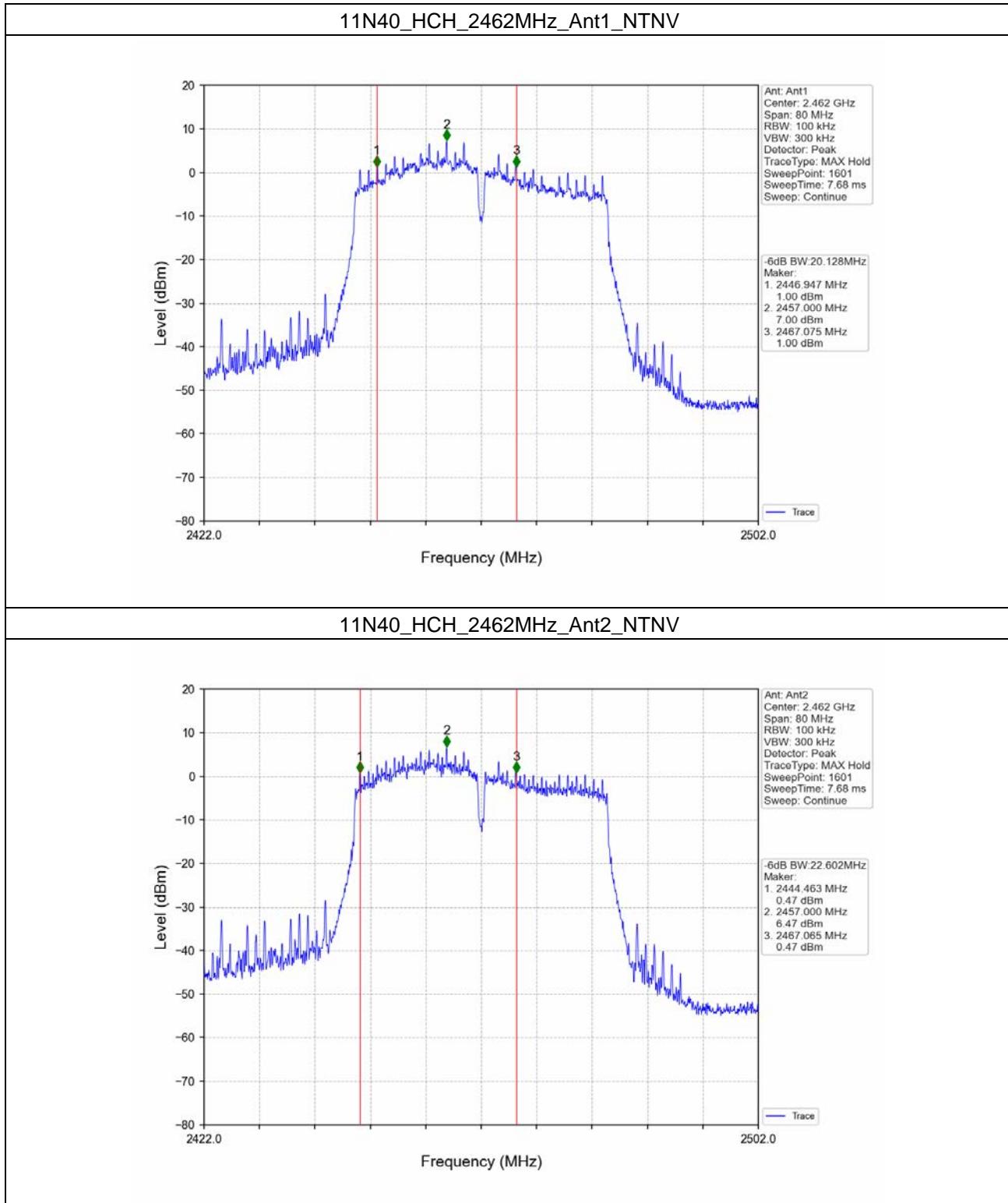
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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Power Setting	Maximum Average Conducted Output Power (dBm)				Verdict
				Ant1	Ant2	MIMO	Limit	
11B	SISO	2467	21	18.04	17.55	/	<=30	Pass
		2472	21	17.32	17.59	/	<=30	Pass
11G	SISO	2467	25	19.46	19.11	/	<=30	Pass
		2472	25	18.68	19.14	/	<=30	Pass
11N20	MIMO	2467	23	18.37	18.24	21.32	<=29.79	Pass
		2472	23	17.53	18.16	20.87	<=29.79	Pass
11N40	MIMO	2457	20	19.07	18.08	21.61	<=29.79	Pass
		2462	20	17.99	18.09	21.05	<=29.79	Pass

Note:

Antenna1 Gain: 3.20dBi; Antenna2 Gain: 3.20dBi;

Directional gain=G<sub>ant</sub> + Array gain= G<sub>Ant</sub> + 10\*log(N<sub>Ant</sub>/N<sub>ss</sub>) = 3.2+10\*log(2/1) =6.21dBi.

### 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	
11B	SISO	2467	0.72	-9.22	/	<=8	Pass
		2472	5.42	4.14	/	<=8	Pass
11G	SISO	2467	-6.71	-6.84	/	<=8	Pass
		2472	-8.37	-6.93	/	<=8	Pass
11N20	MIMO	2467	-7.69	-8.74	-6.15	<=8	Pass
		2472	-9.16	-7.46	-6.30	<=8	Pass
11N40	MIMO	2457	-8.63	-9.17	-6.70	<=8	Pass
		2462	-9.82	-10.03	-7.78	<=8	Pass

Note:

Antenna1 Gain: 3.20dBi; Antenna2 Gain: 3.20dBi;

Directional gain=G<sub>ant</sub> + Array gain= G<sub>Ant</sub> + 10\*log(N<sub>Ant</sub>/N<sub>ss</sub>) = 3.2+10\*log(2/1) =6.21dBi.

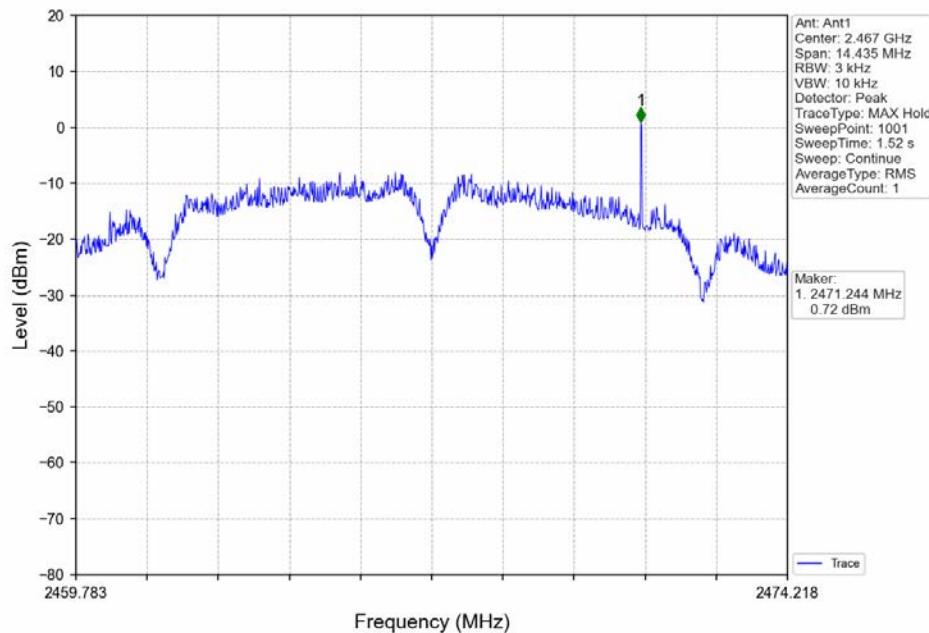
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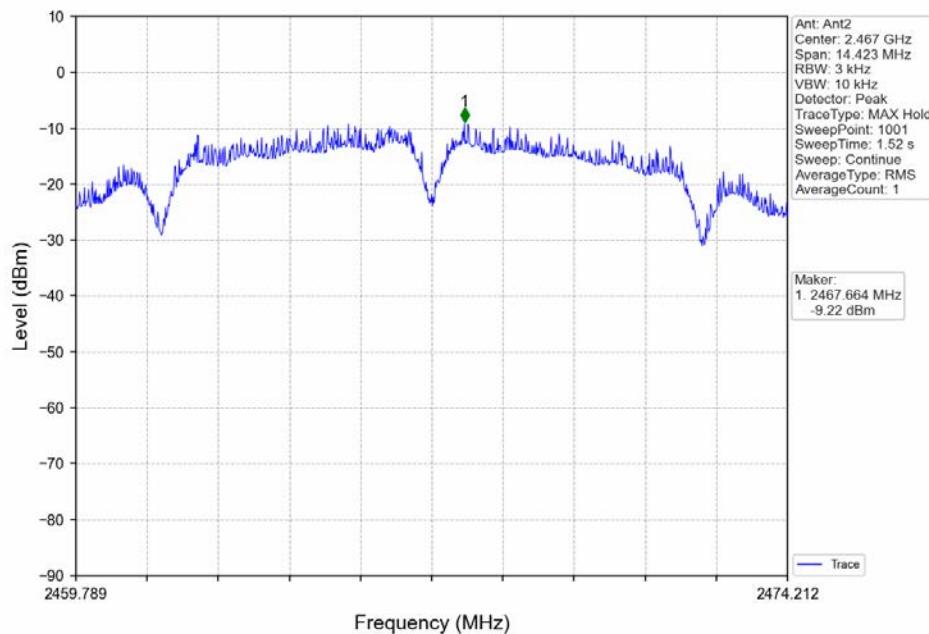


## 4.1.2 Test Graph

11B\_MCH\_2467MHz\_Ant1\_NTNV

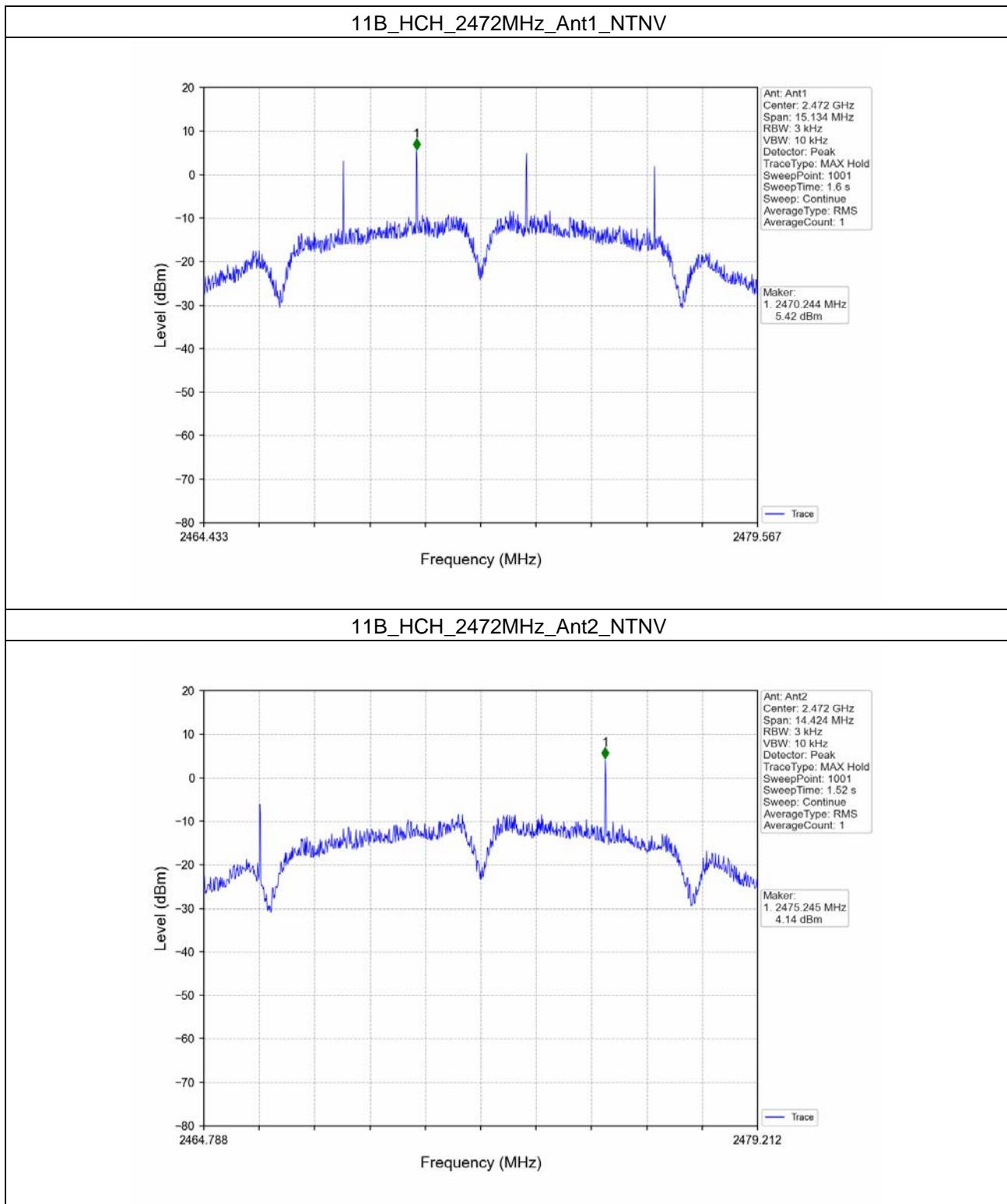


11B\_MCH\_2467MHz\_Ant2\_NTNV



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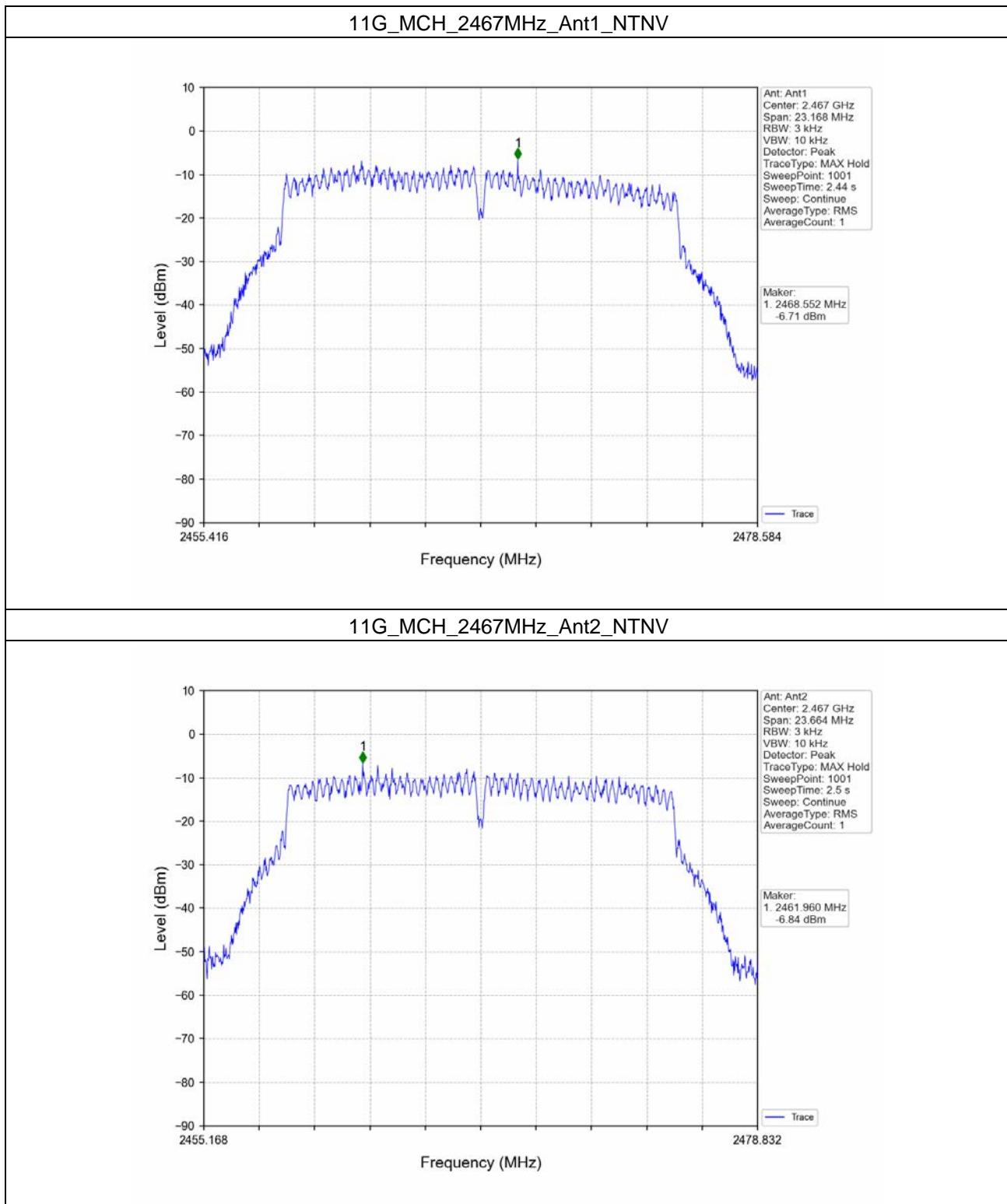
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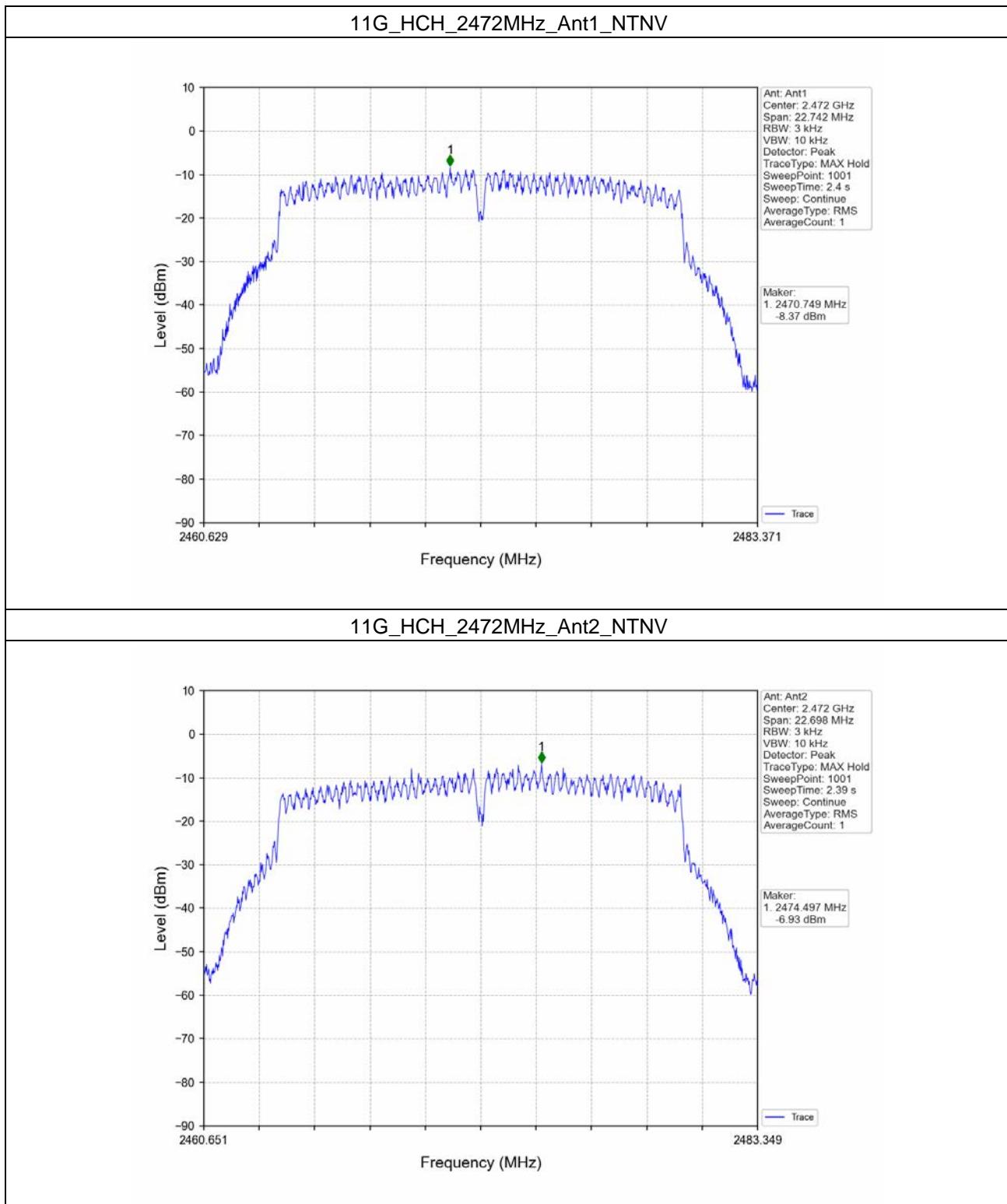
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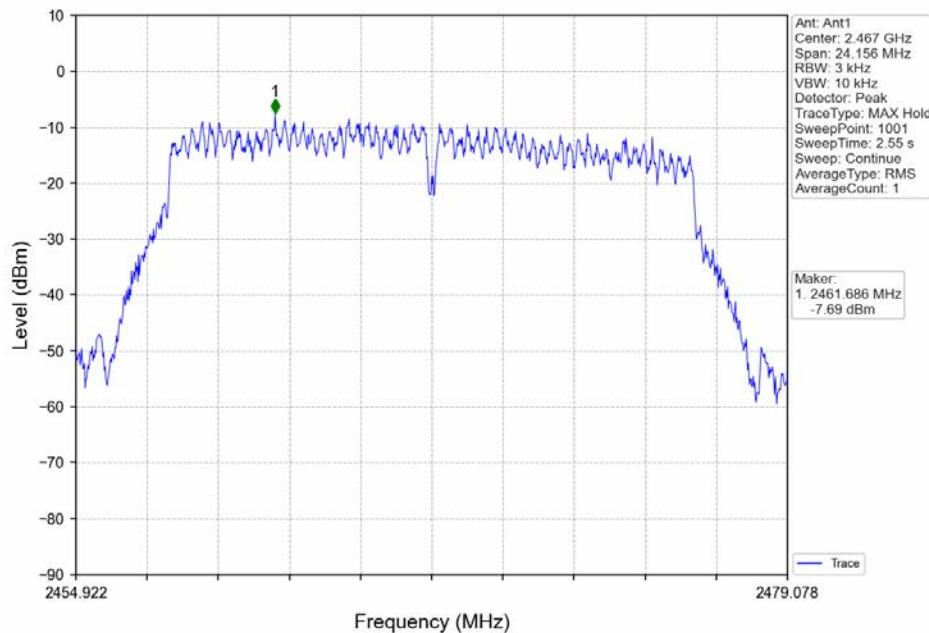
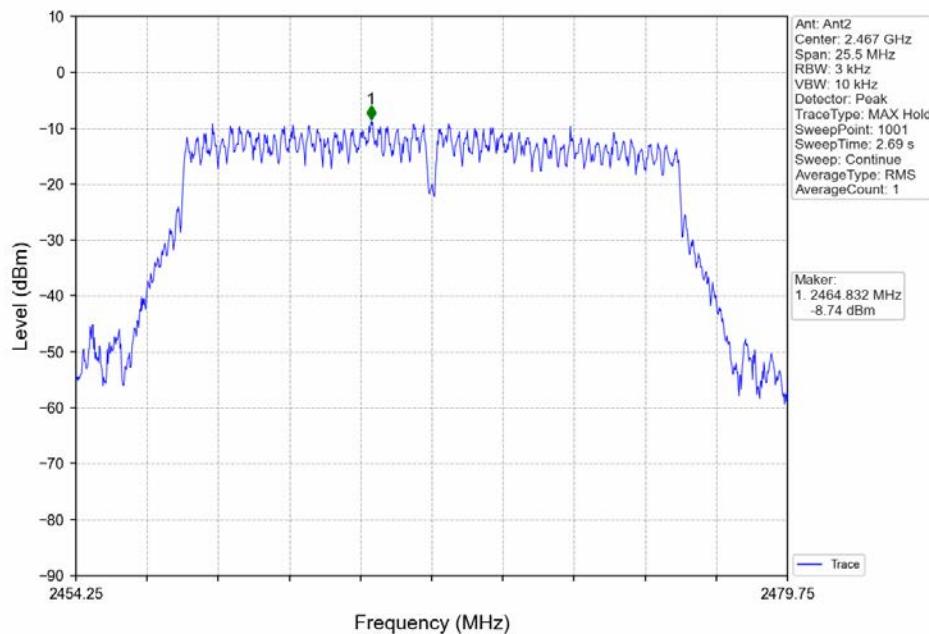
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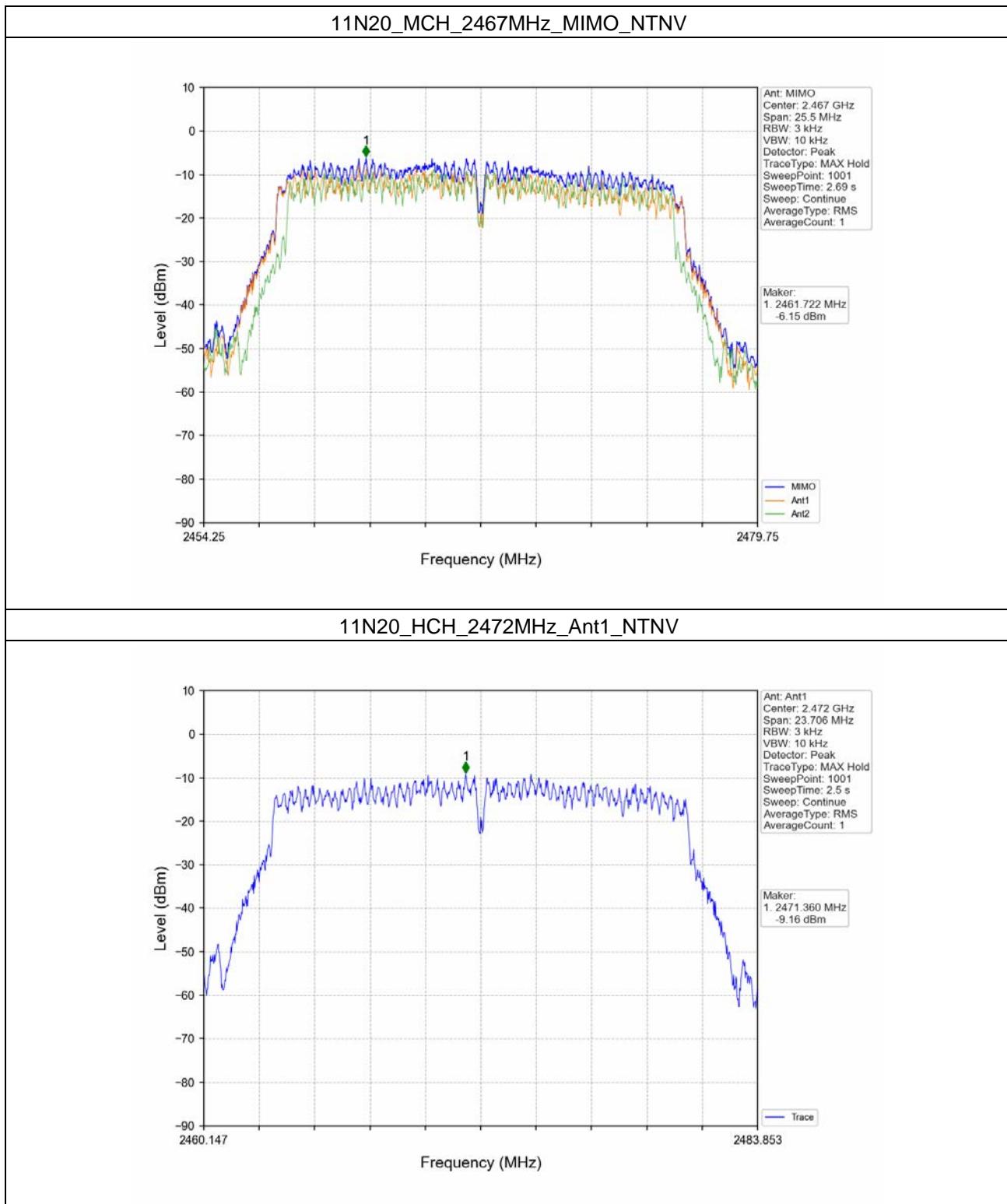
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**11N20\_MCH\_2467MHz\_Ant1\_NTNV****11N20\_MCH\_2467MHz\_Ant2\_NTNV**

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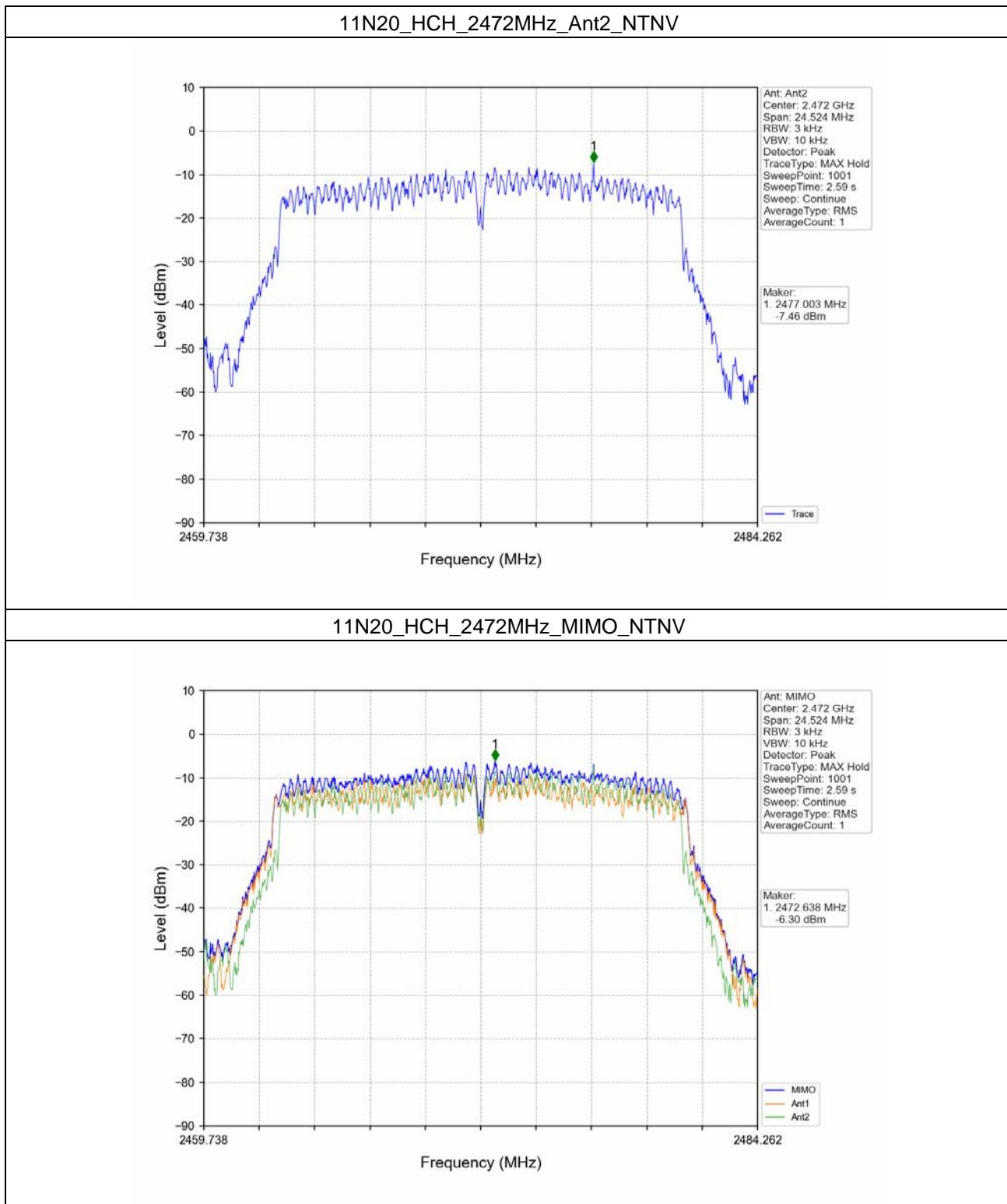


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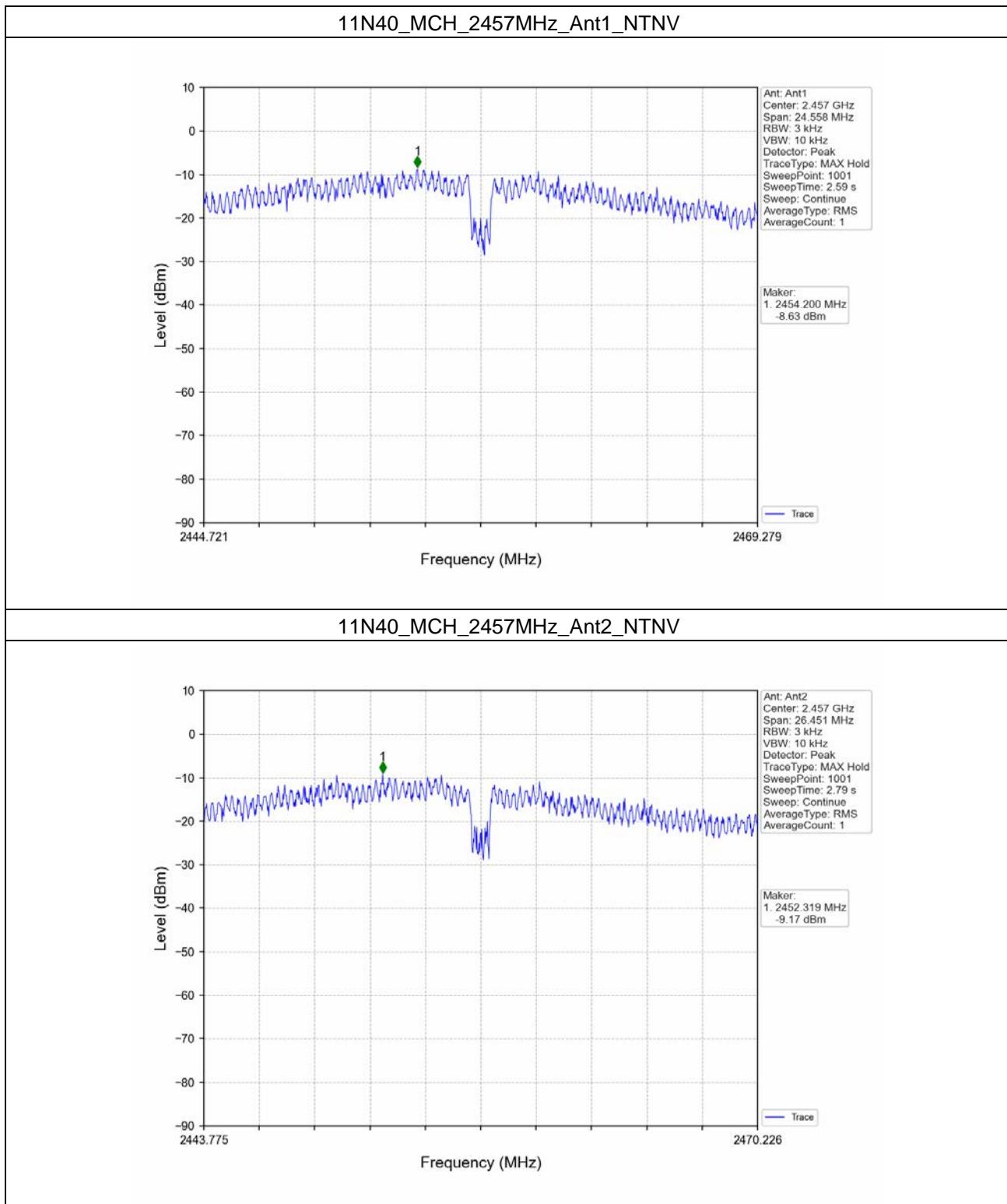
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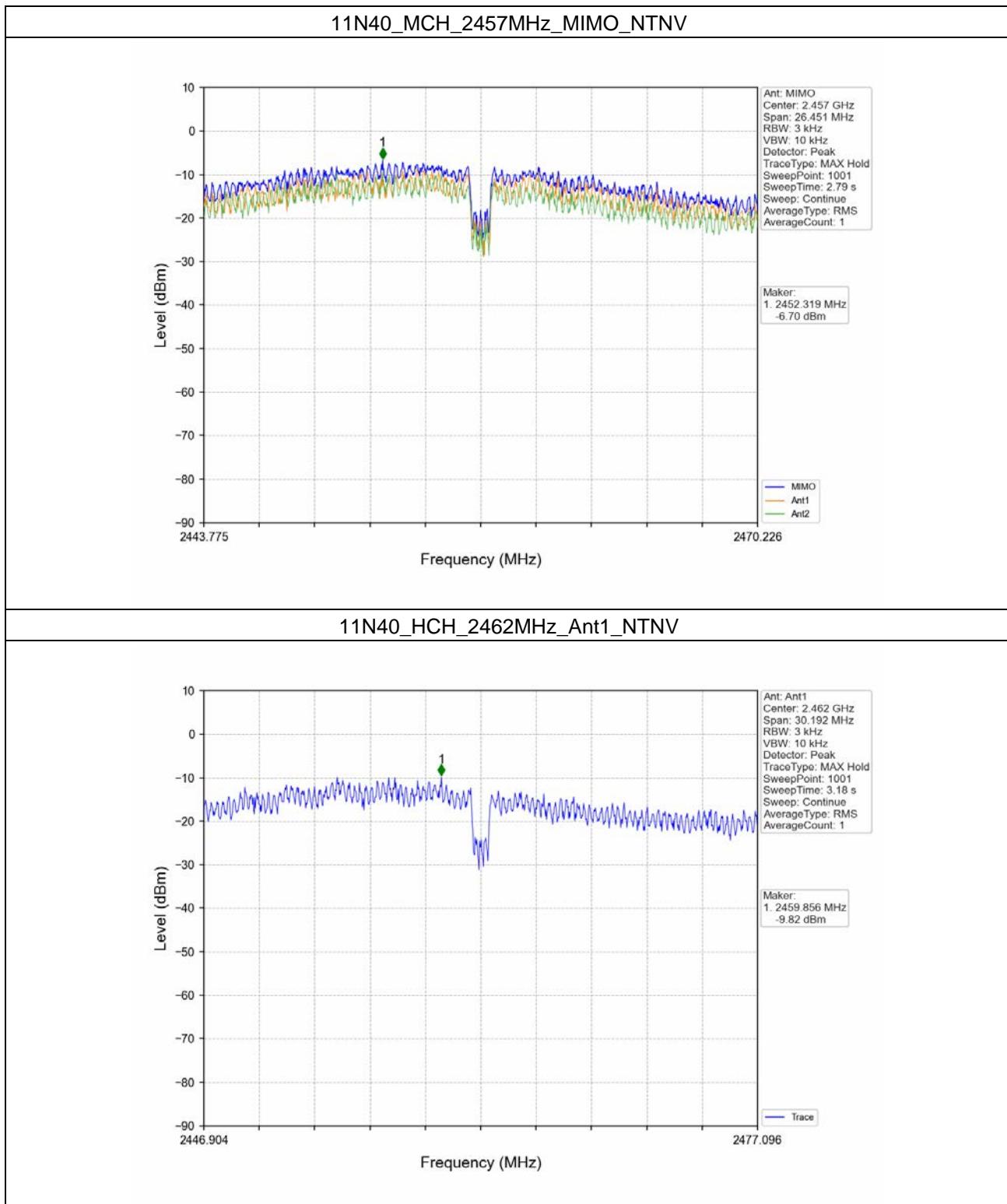
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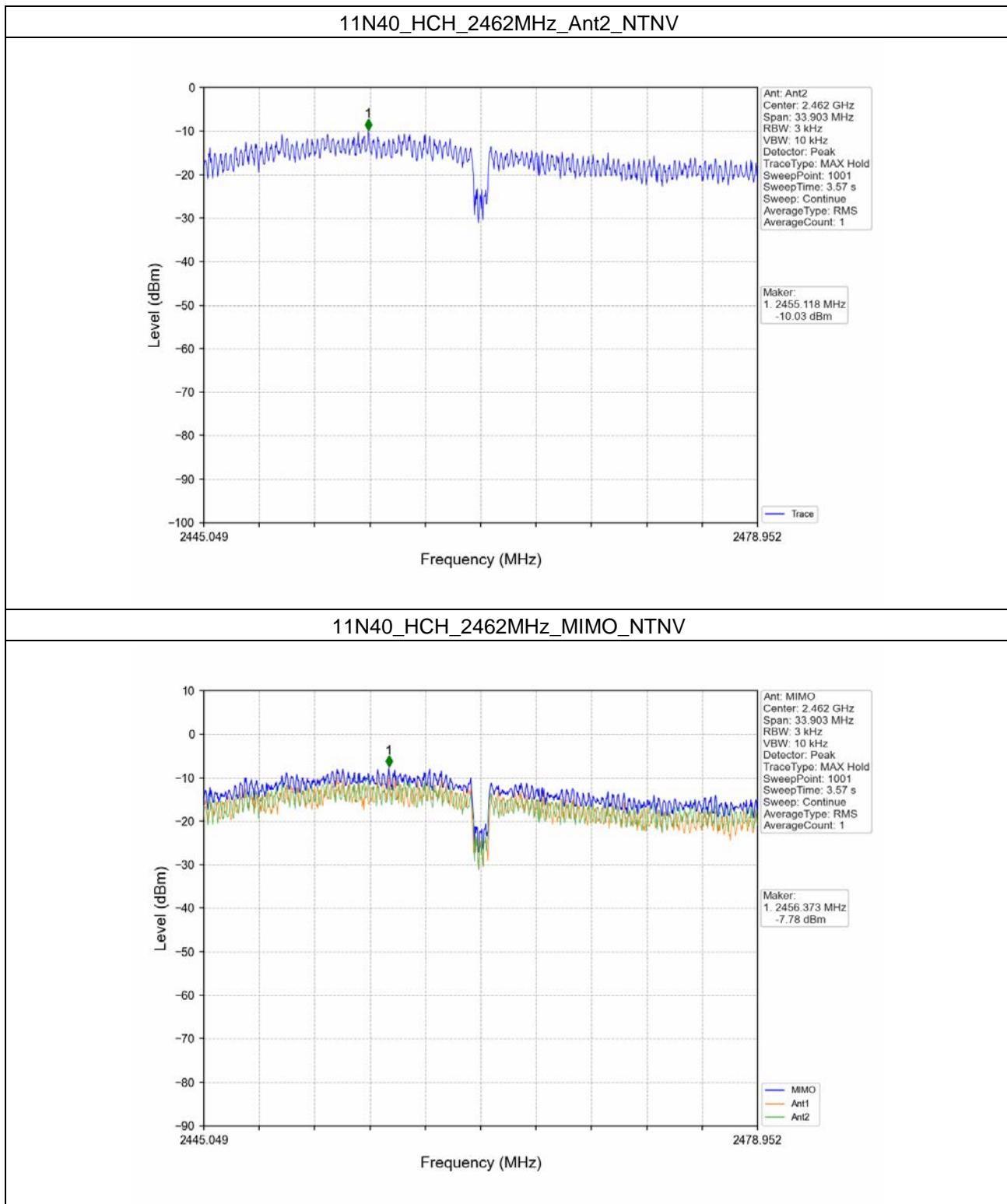
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**5. Unwanted Emissions In Non-restricted Frequency Bands****5.1 Ref****5.1.1 Test Result**

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
11B	SISO	2467	1	8.20
			2	7.54
		2472	1	7.29
			2	7.75
11G	SISO	2467	1	9.54
			2	8.28
		2472	1	7.99
			2	9.15
11N20	MIMO	2467	1	7.82
			2	7.10
		2472	1	6.88
			2	7.71
11N40	MIMO	2457	1	8.73
			2	7.14
		2462	1	6.95
			2	6.15

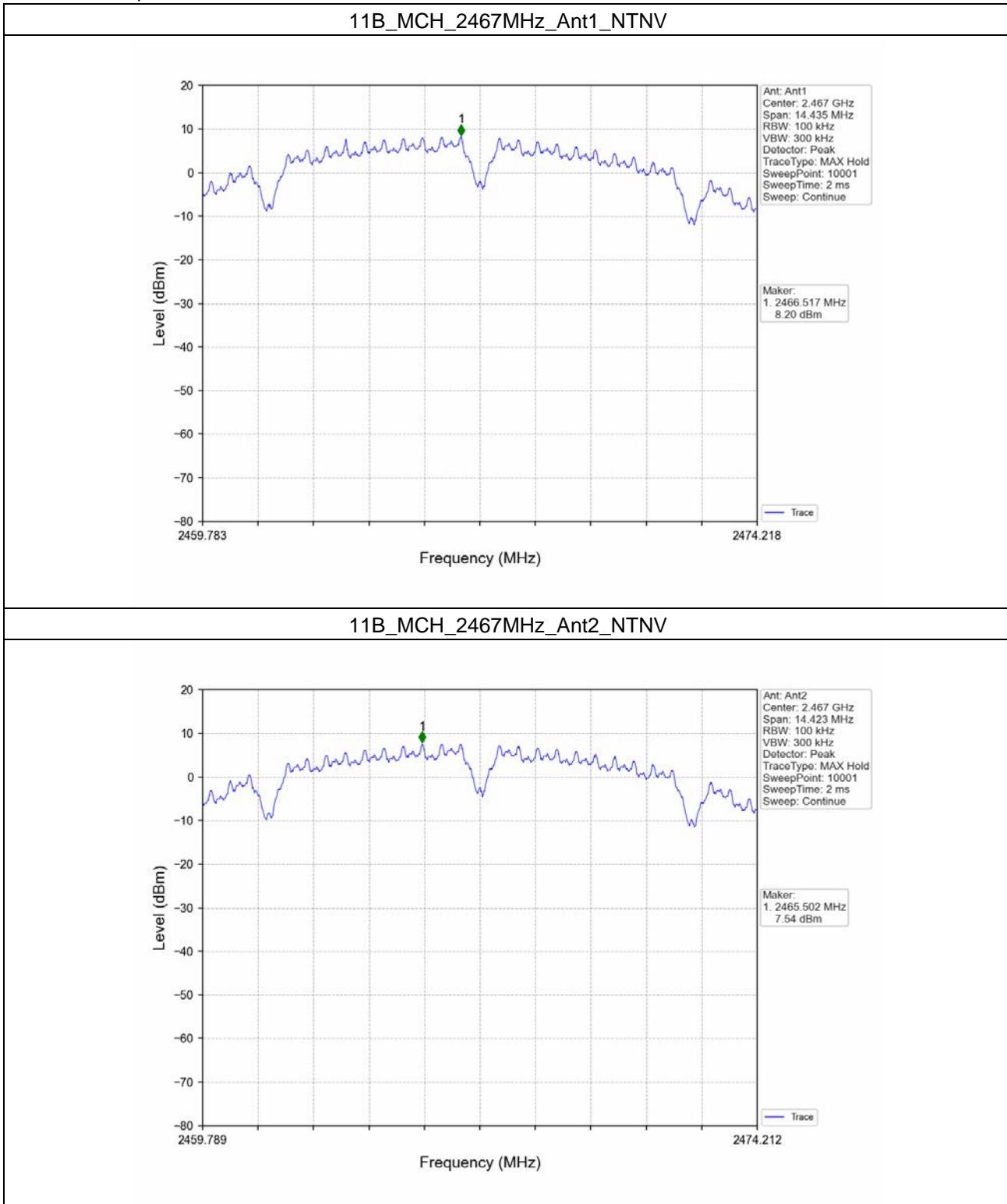
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## 5.1.2 Test Graph



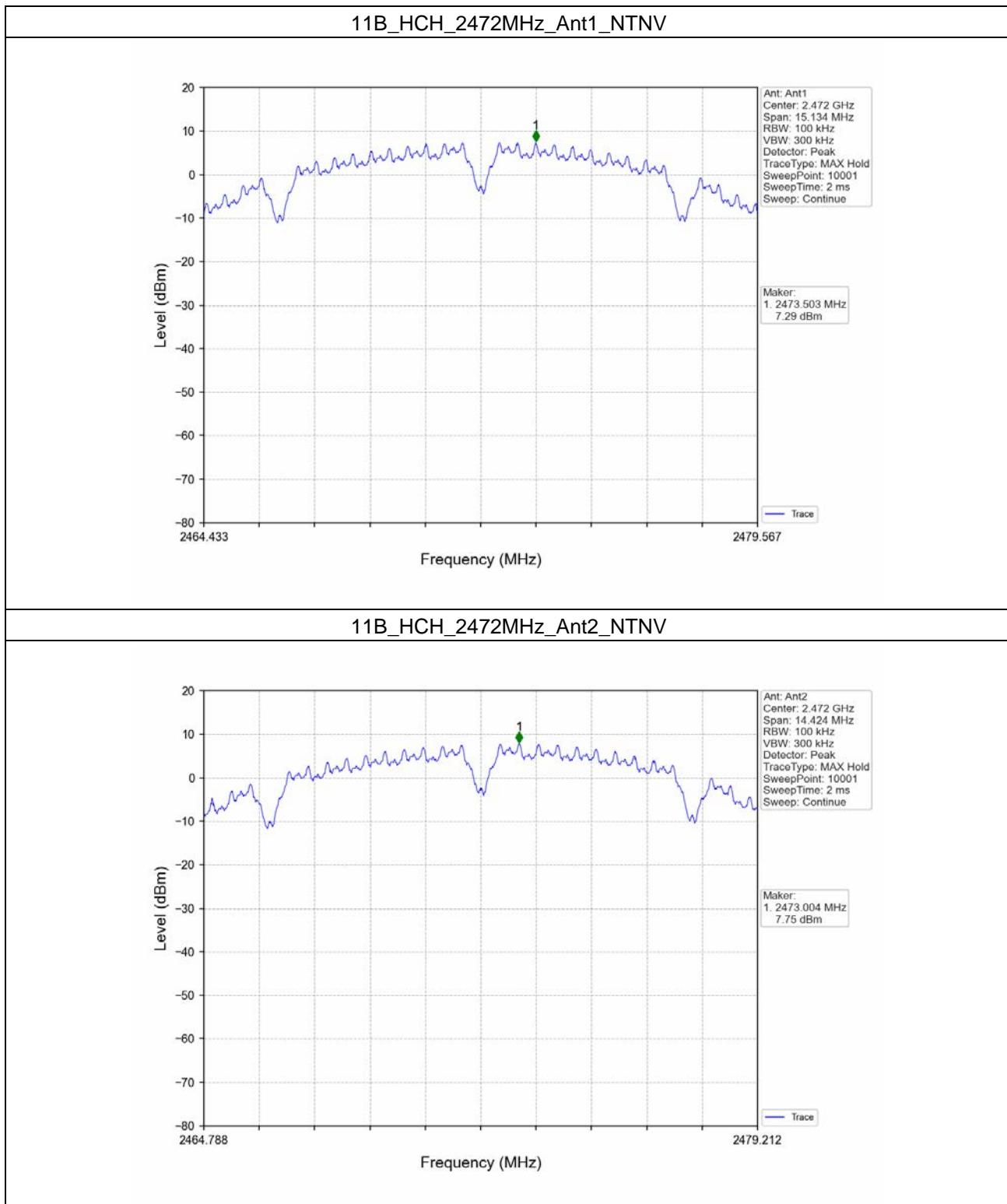
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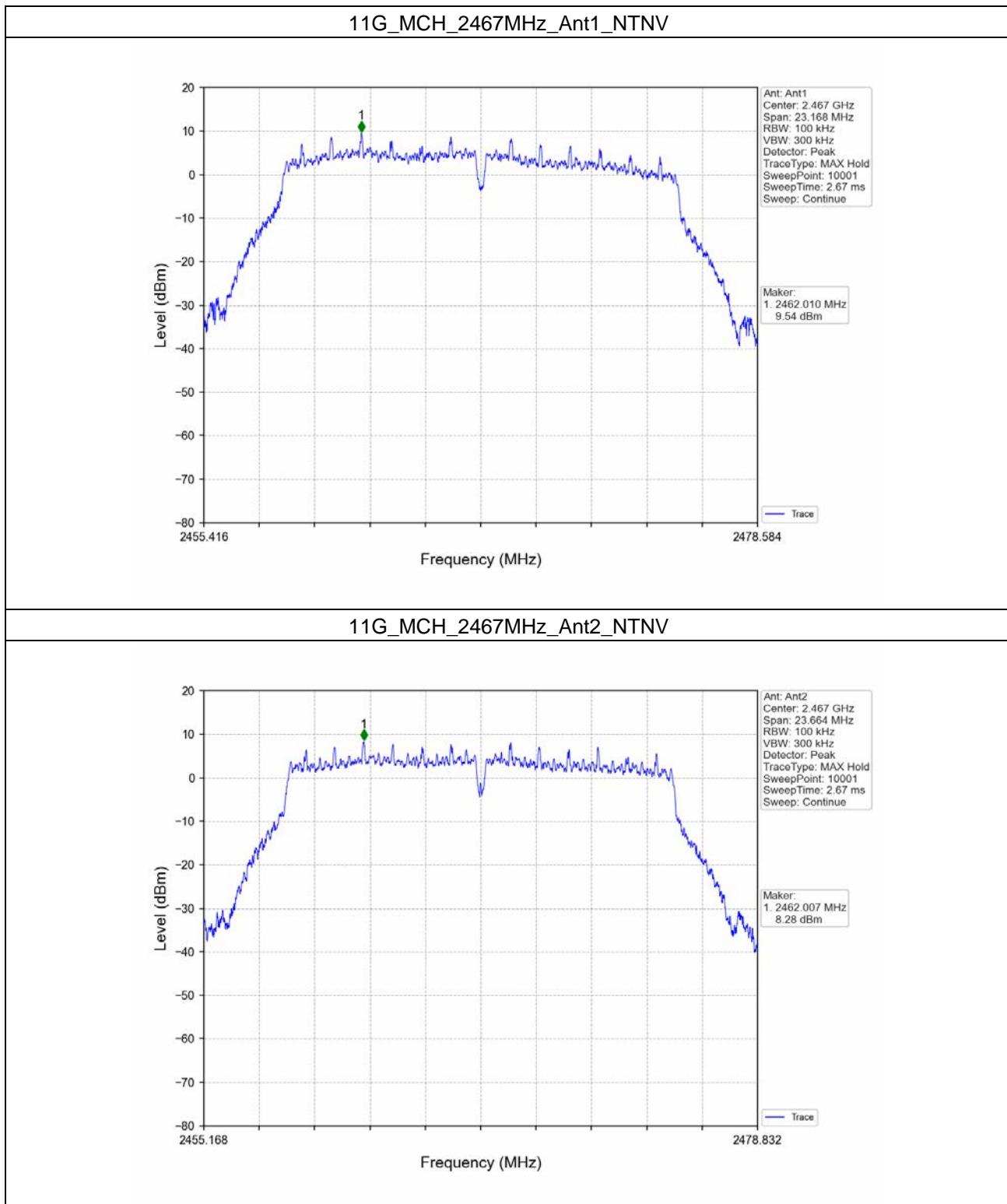
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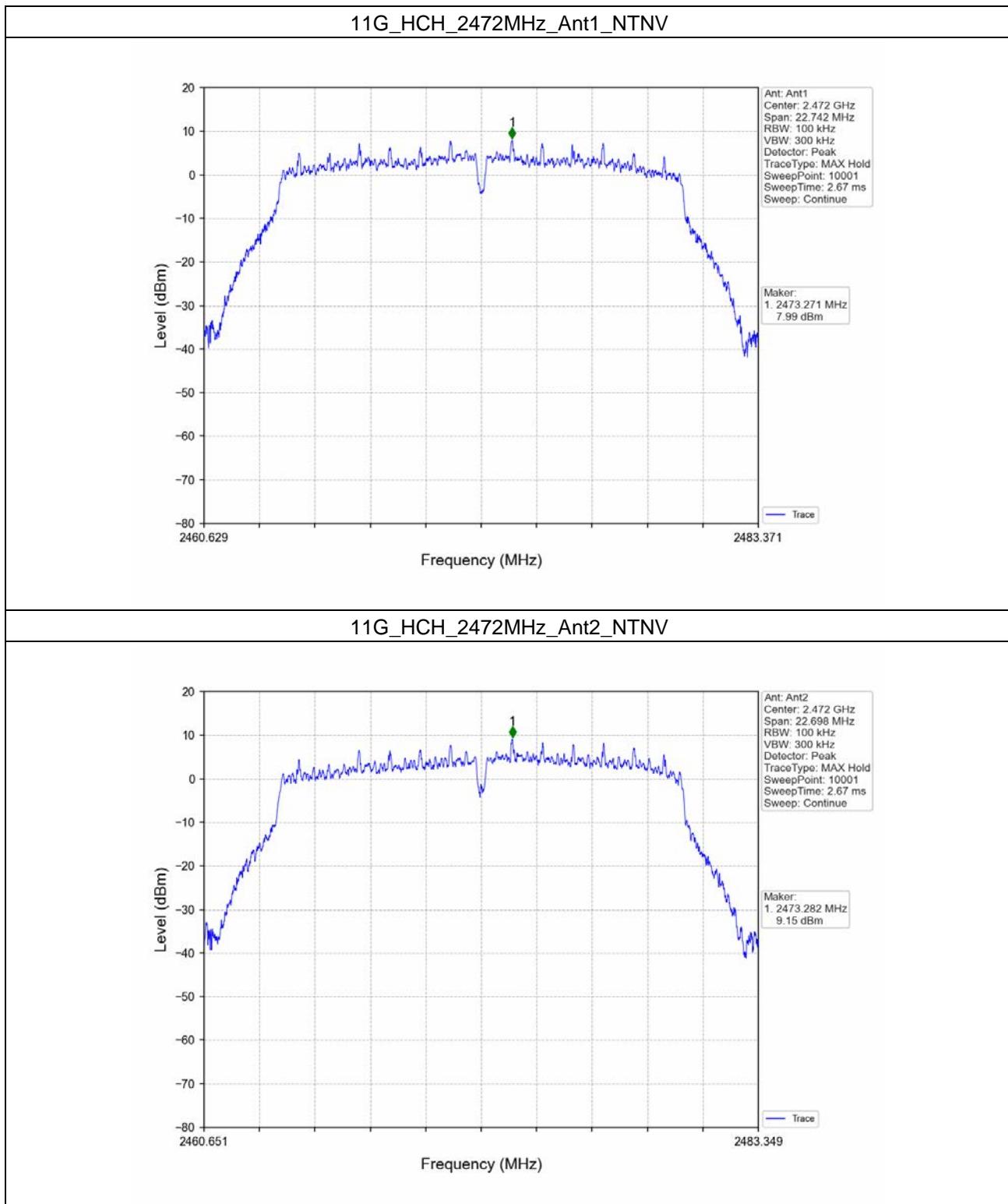
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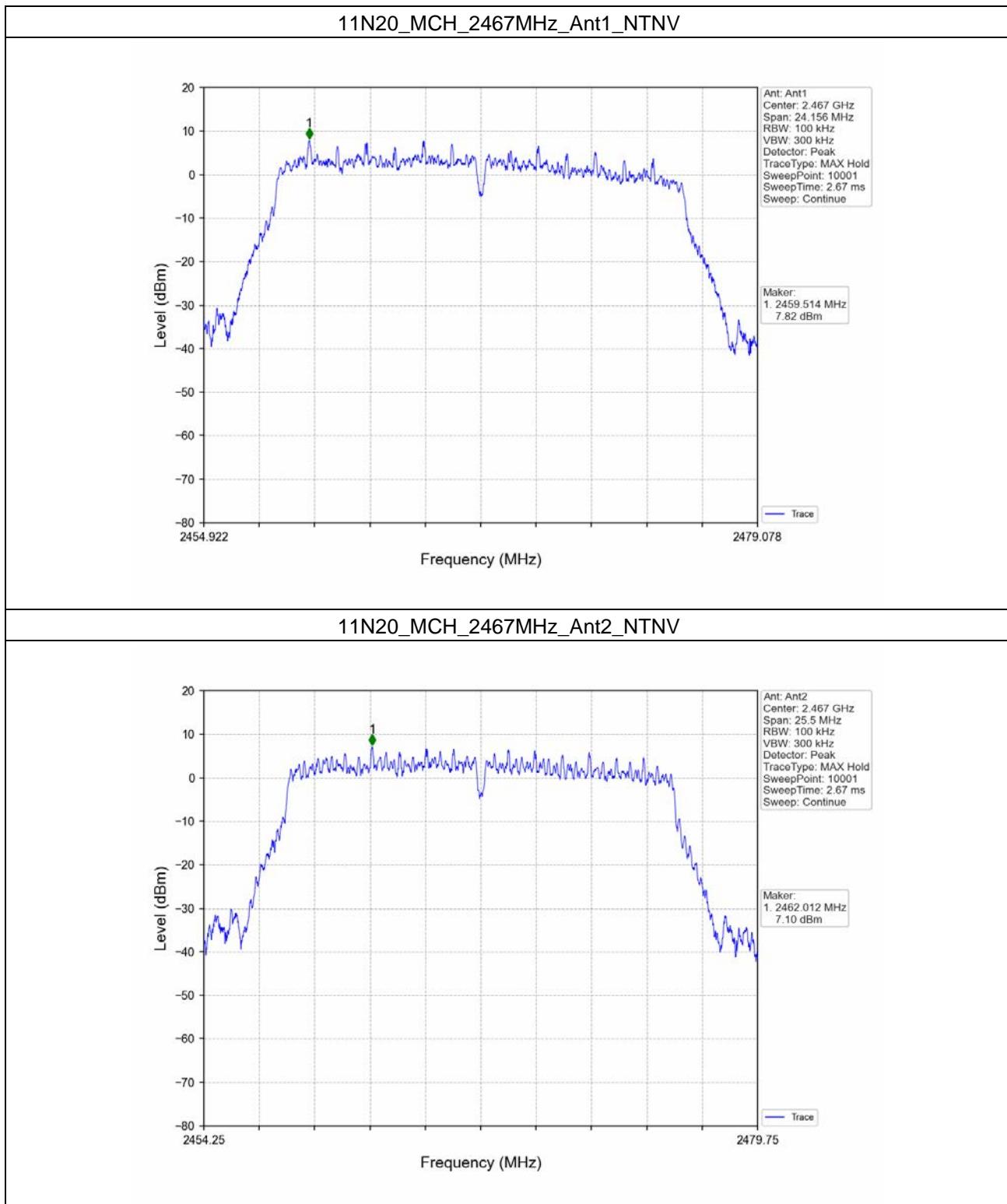
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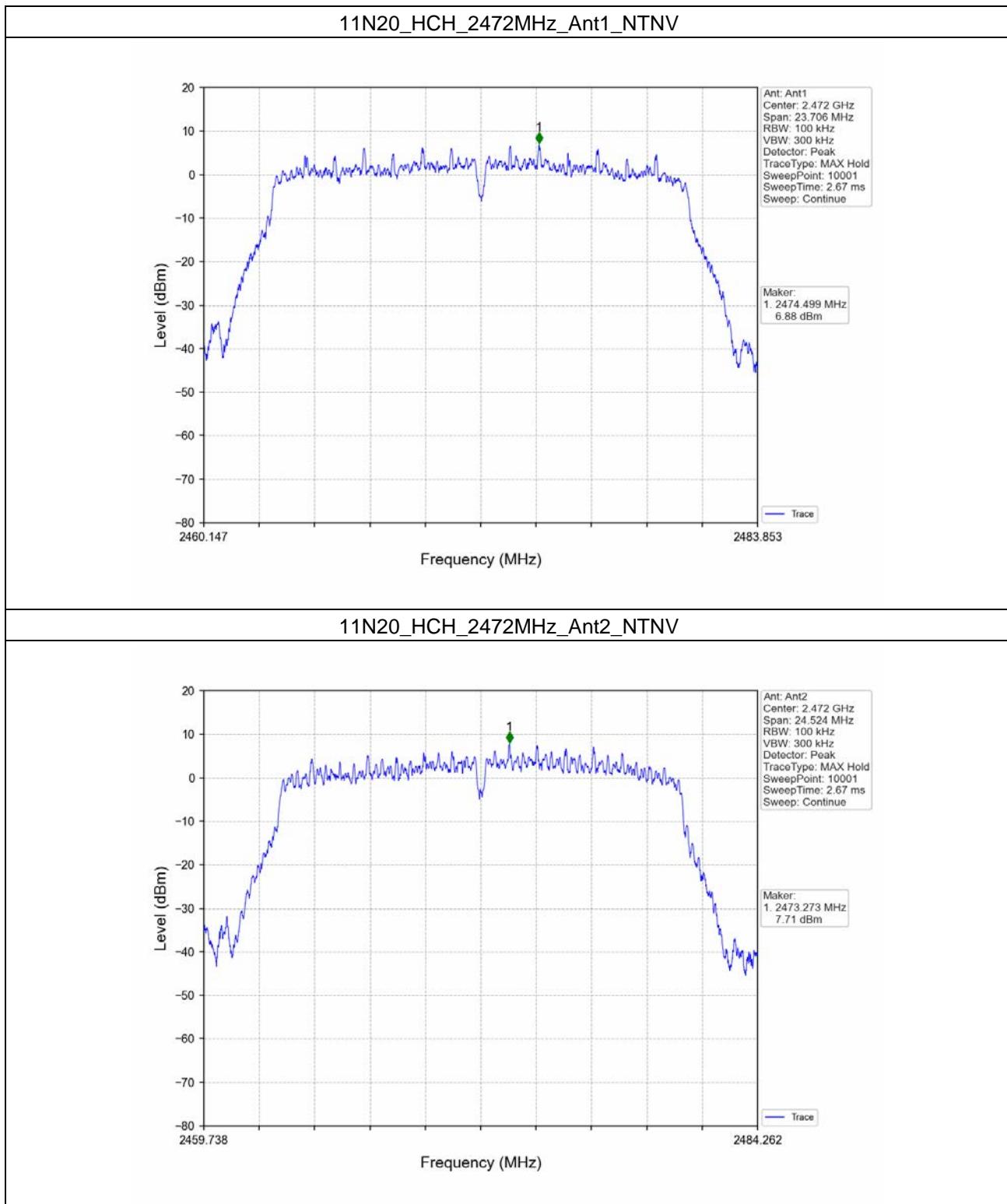
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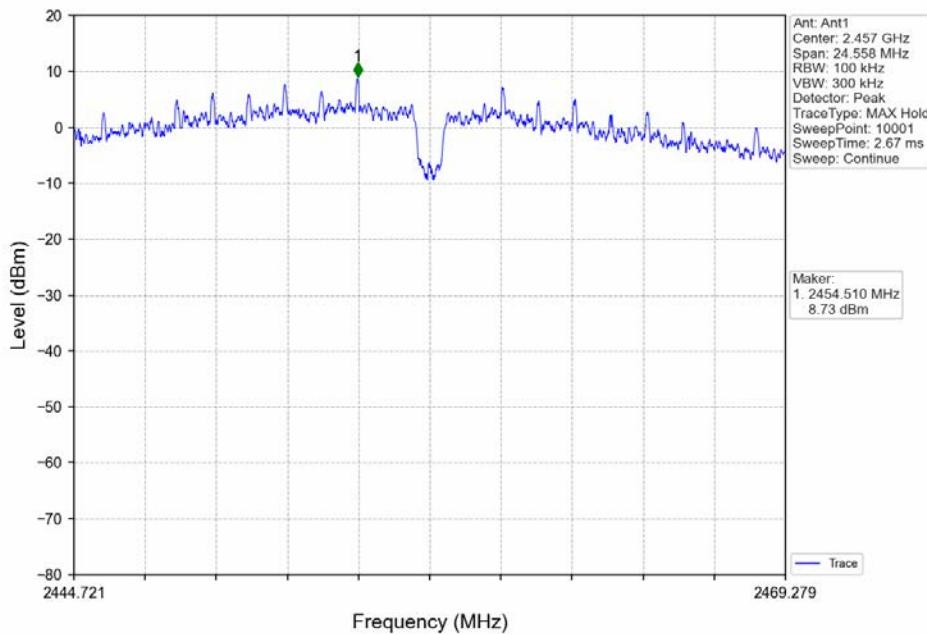
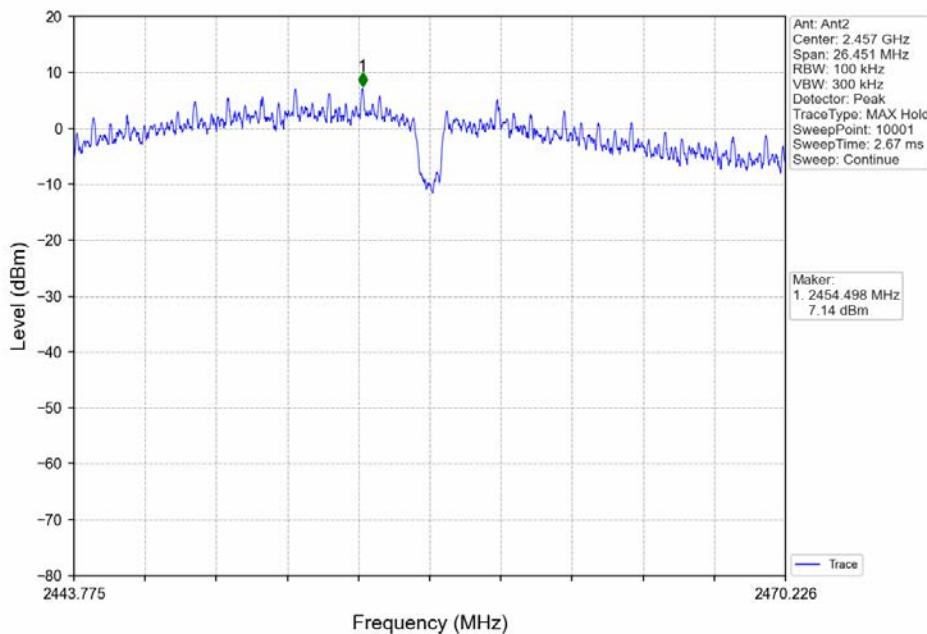
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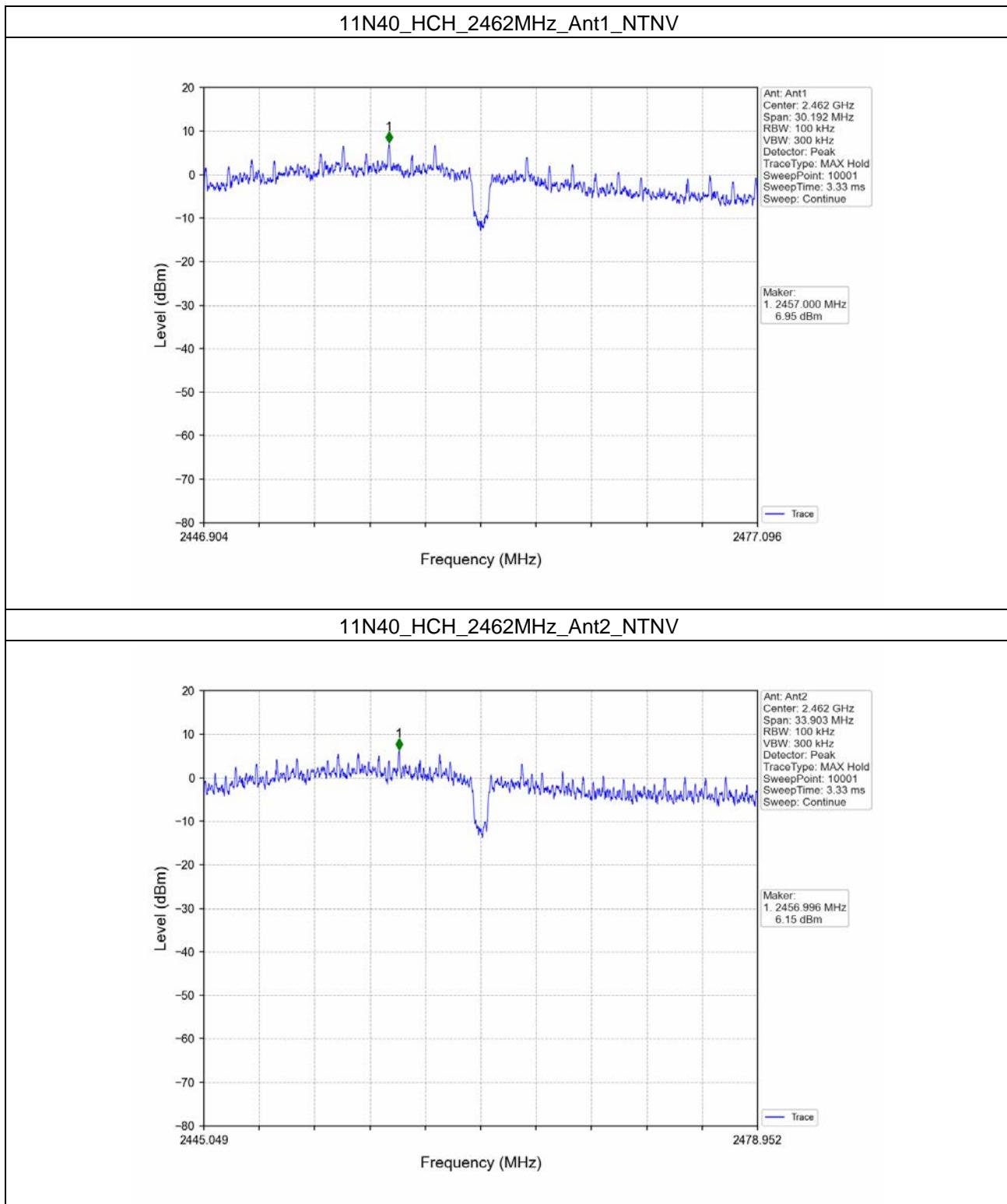
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**11N40\_MCH\_2457MHz\_Ant1\_NTNV****11N40\_MCH\_2457MHz\_Ant2\_NTNV**

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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
11B	SISO	2467	1	8.20	-21.80	Pass
			2	7.54	-22.46	Pass
		2472	1	7.29	-22.71	Pass
			2	7.75	-22.25	Pass
11G	SISO	2467	1	9.54	-20.46	Pass
			2	8.28	-21.72	Pass
		2472	1	7.99	-22.01	Pass
			2	9.15	-20.85	Pass
11N20	MIMO	2467	1	7.82	-22.18	Pass
			2	7.10	-22.90	Pass
		2472	1	6.88	-23.12	Pass
			2	7.71	-22.29	Pass
11N40	MIMO	2457	1	8.73	-21.27	Pass
			2	7.14	-22.86	Pass
		2462	1	6.95	-23.05	Pass
			2	6.15	-23.85	Pass

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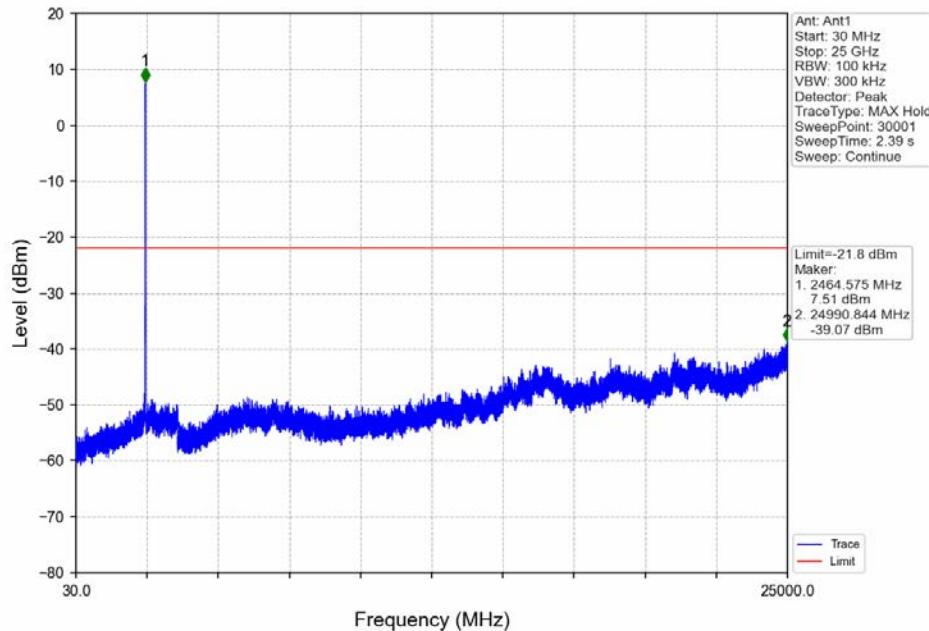
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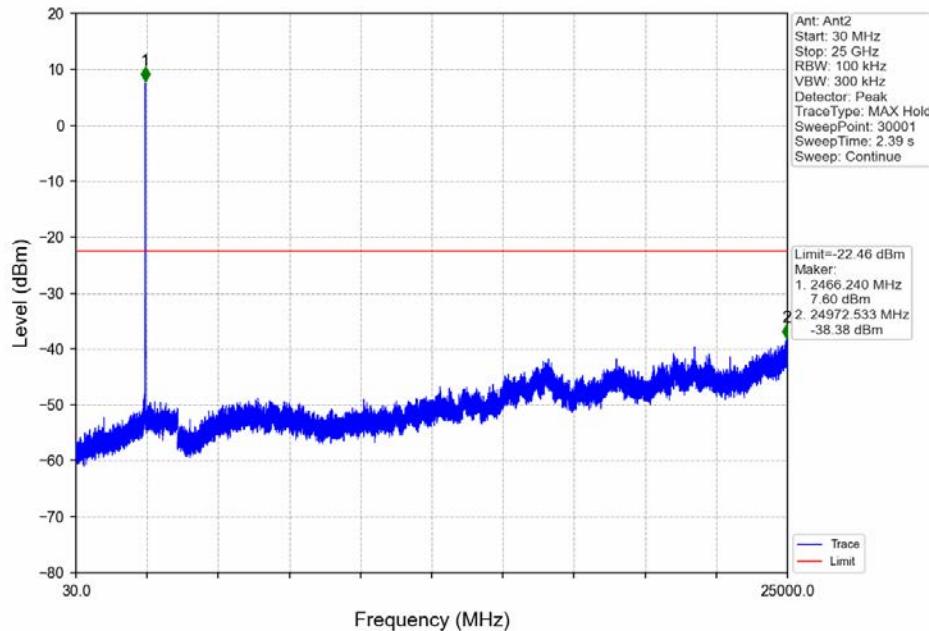
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## 5.2.2 Test Graph

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11B\_MCH\_2467MHz\_Ant2\_NTNV



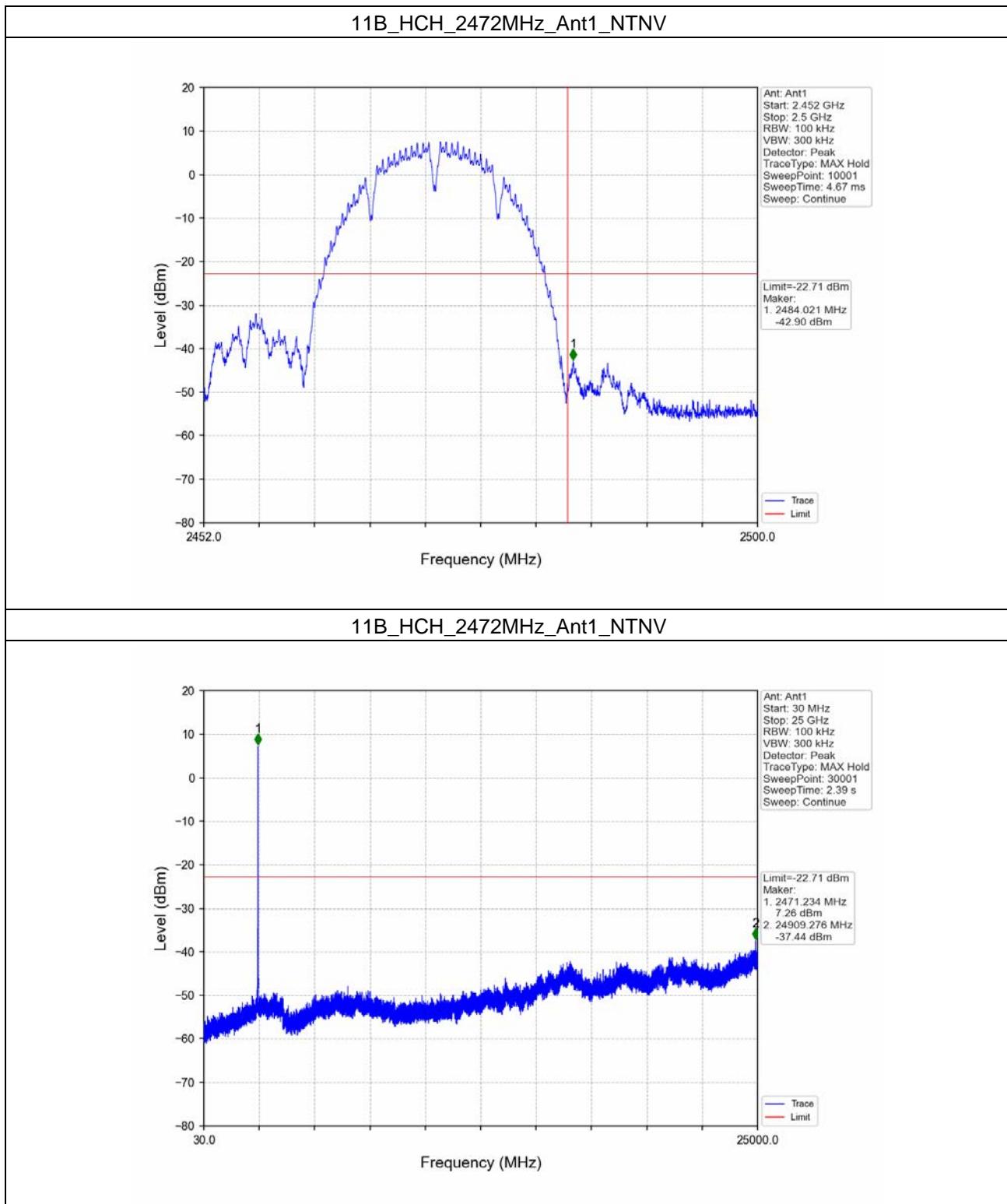
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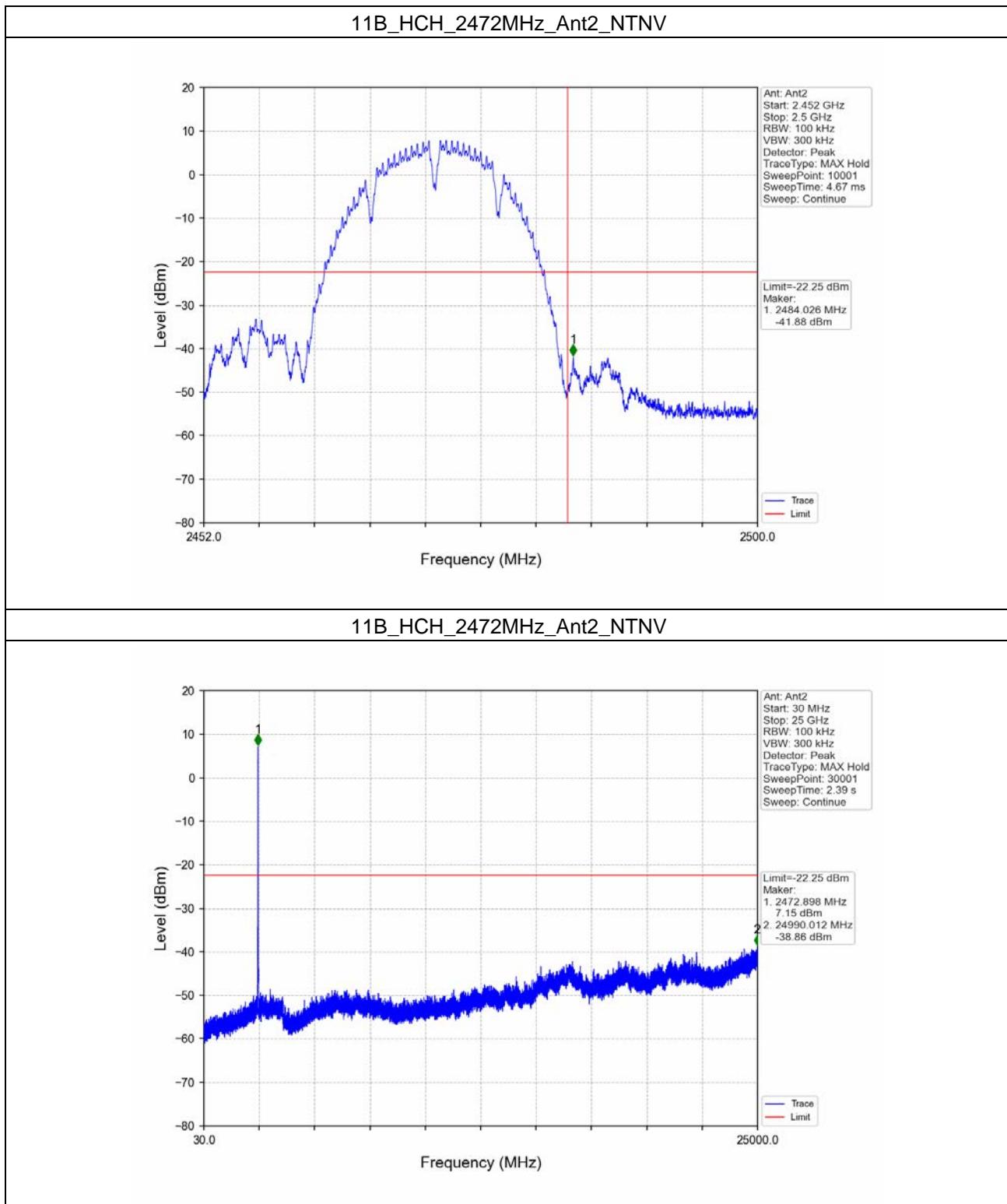
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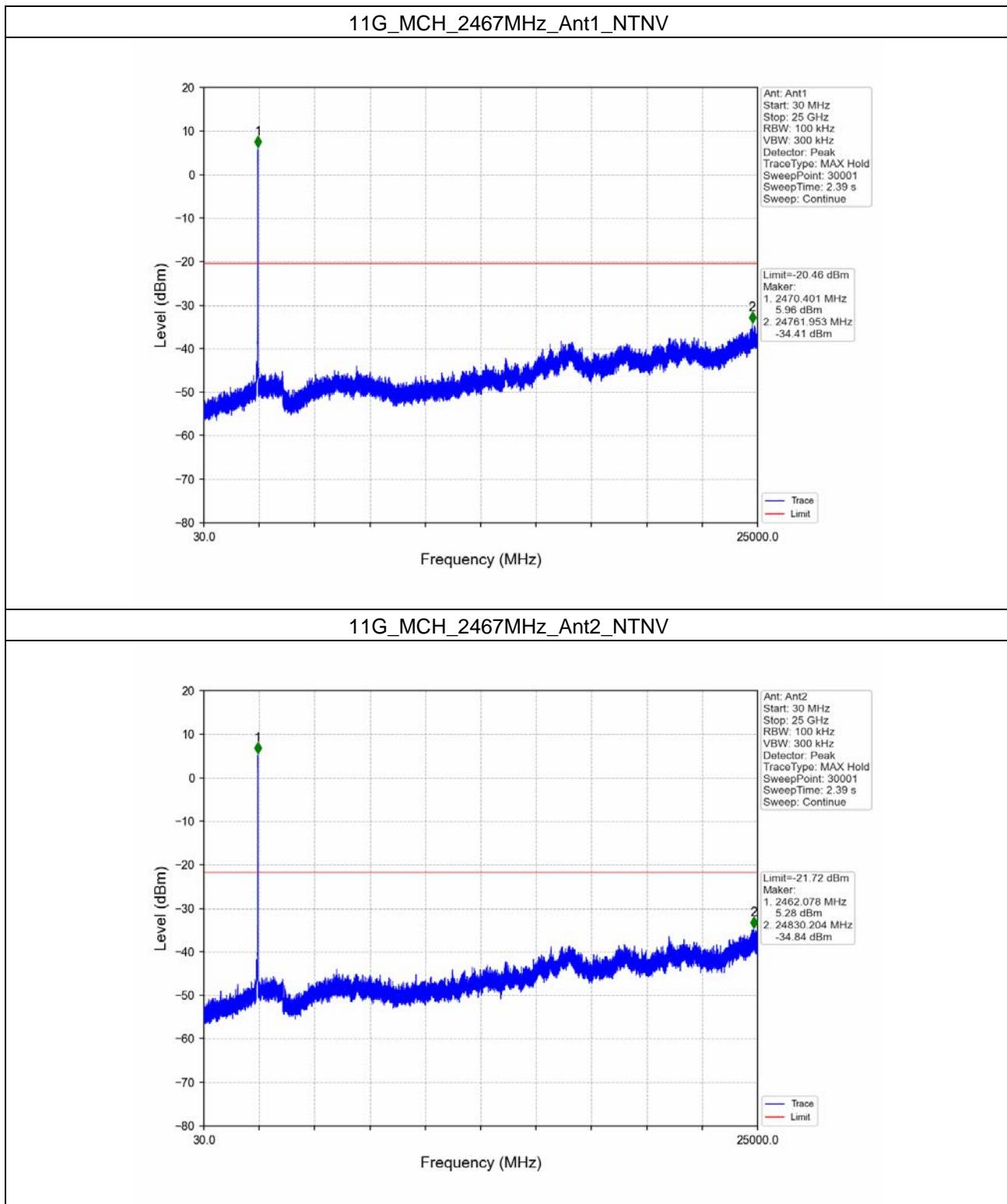
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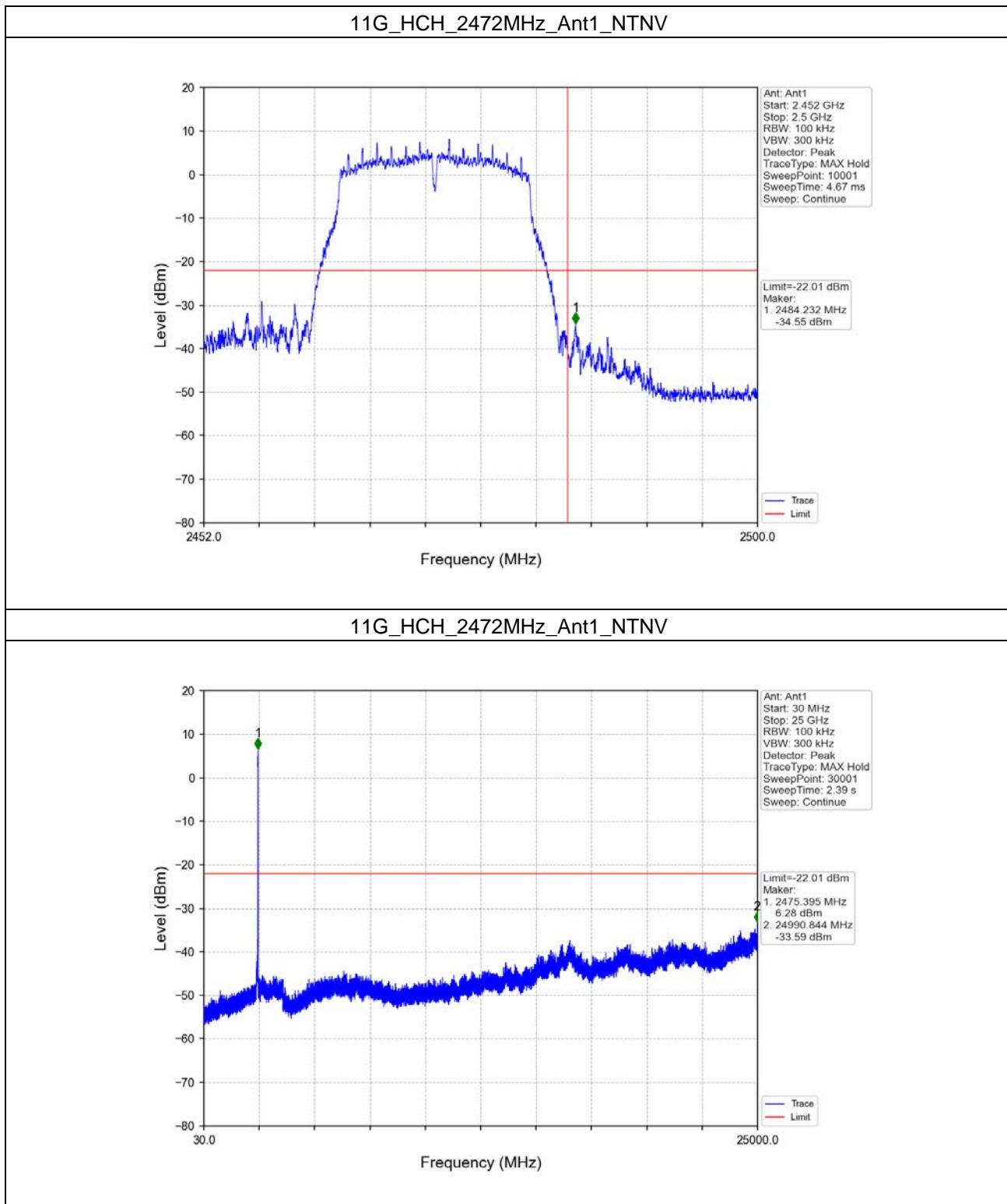
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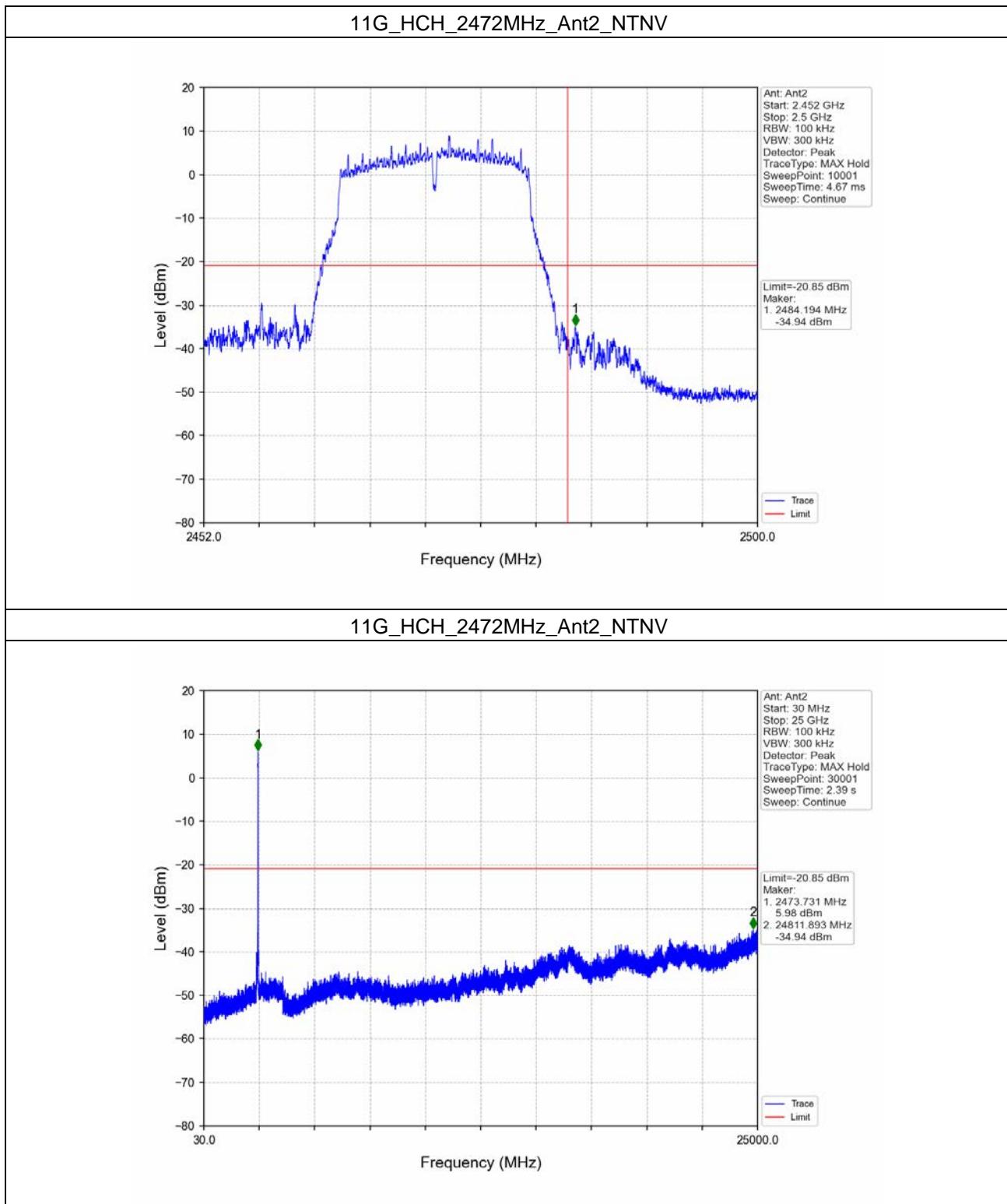
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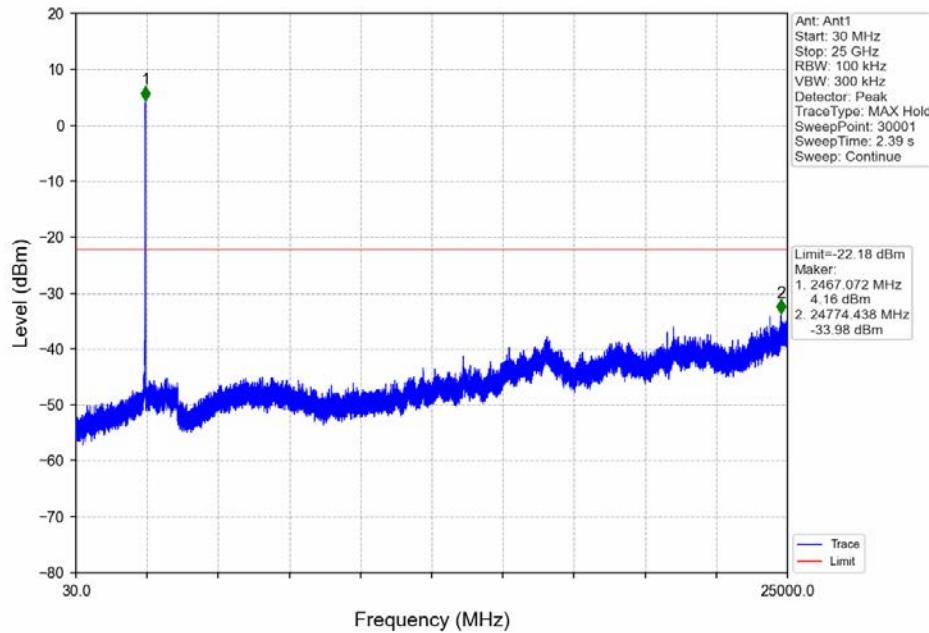
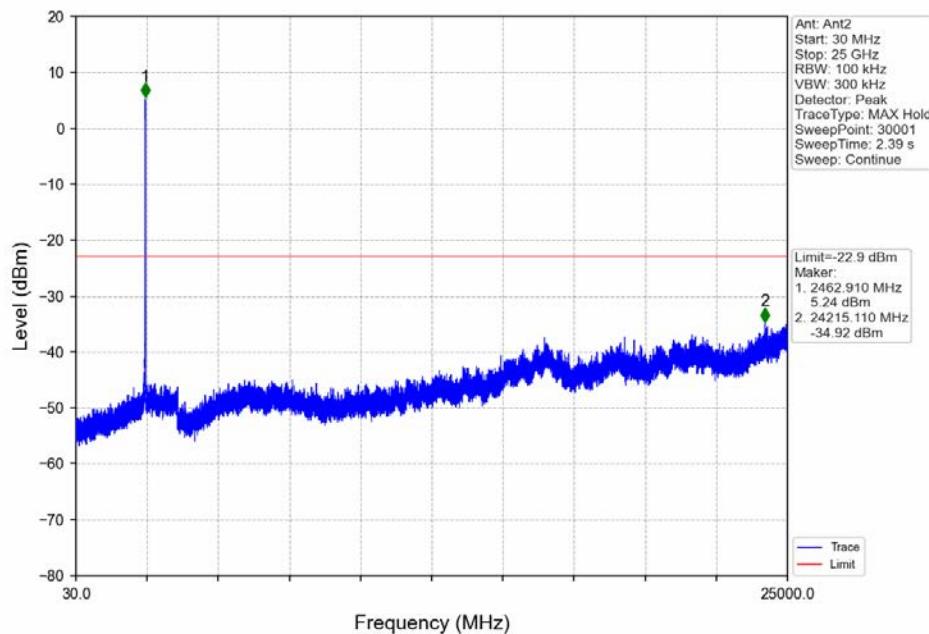
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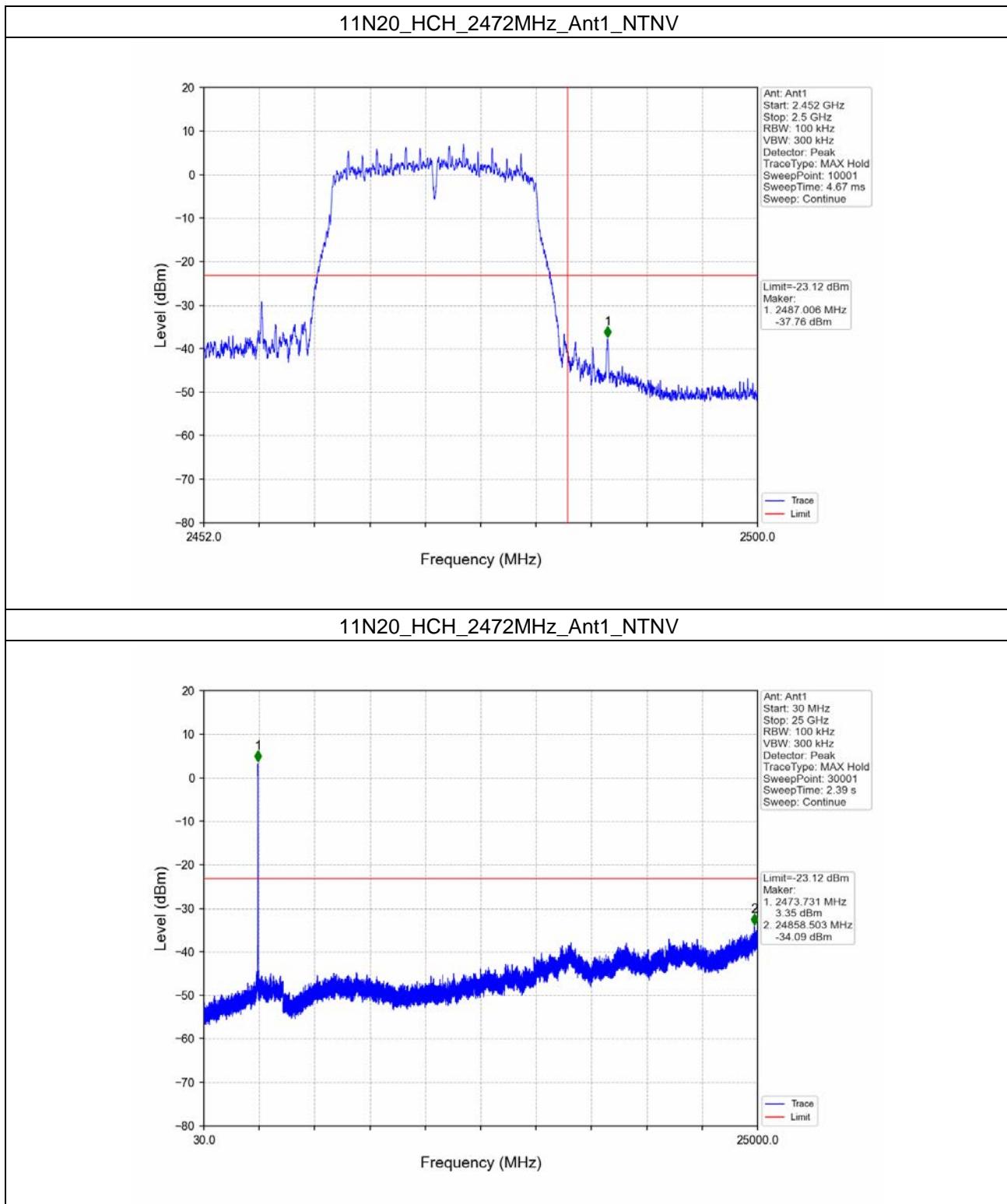
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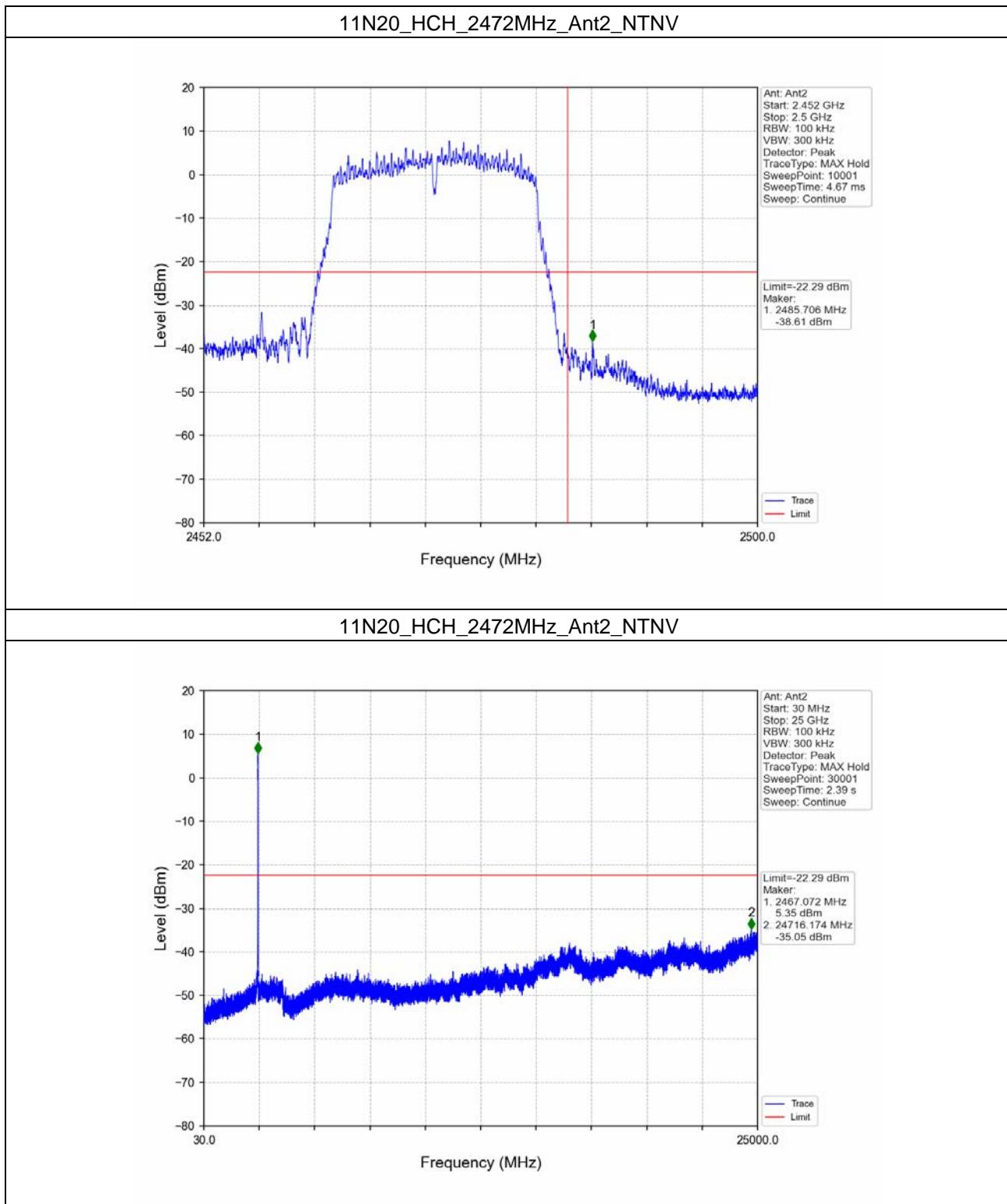
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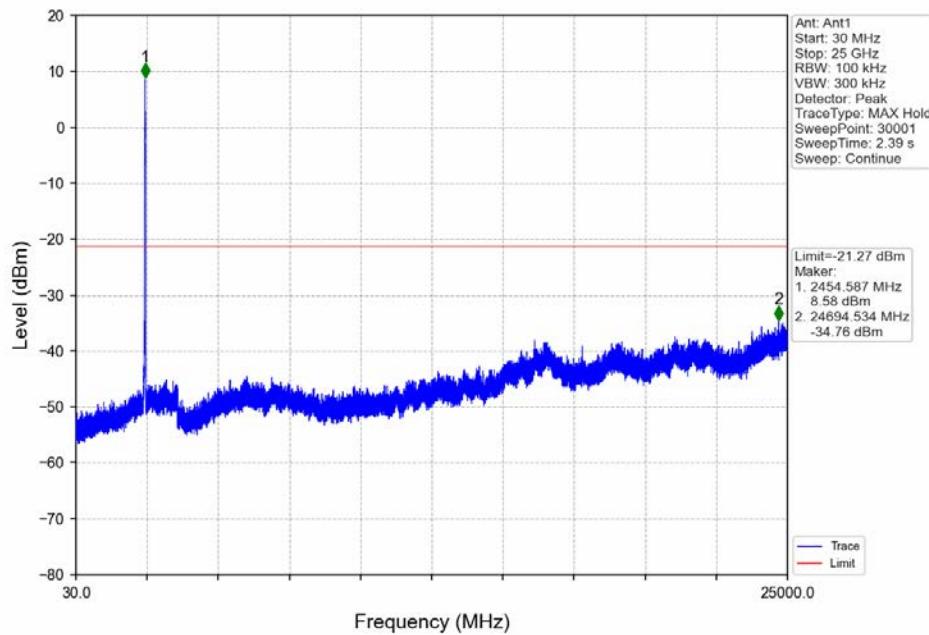
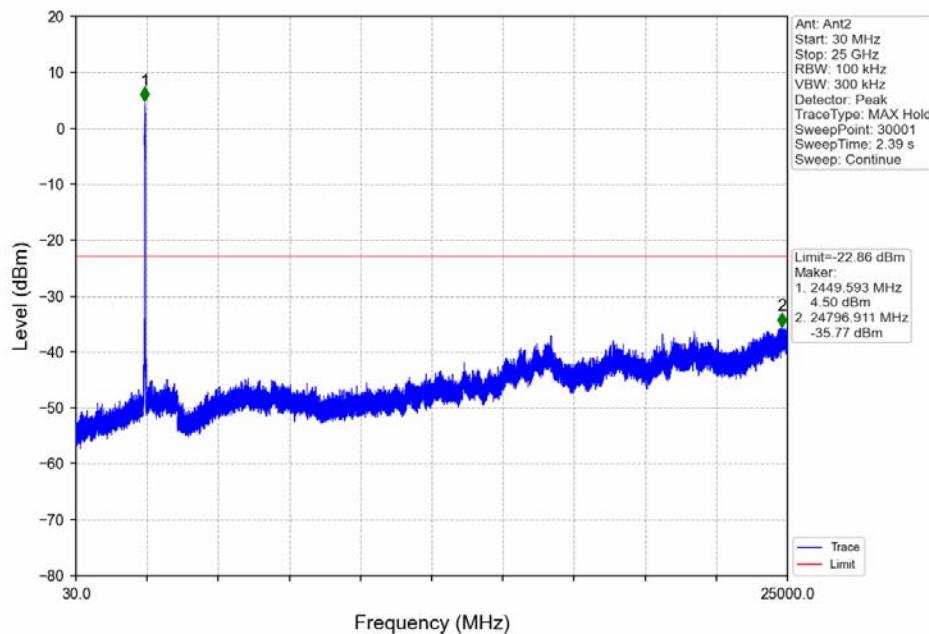
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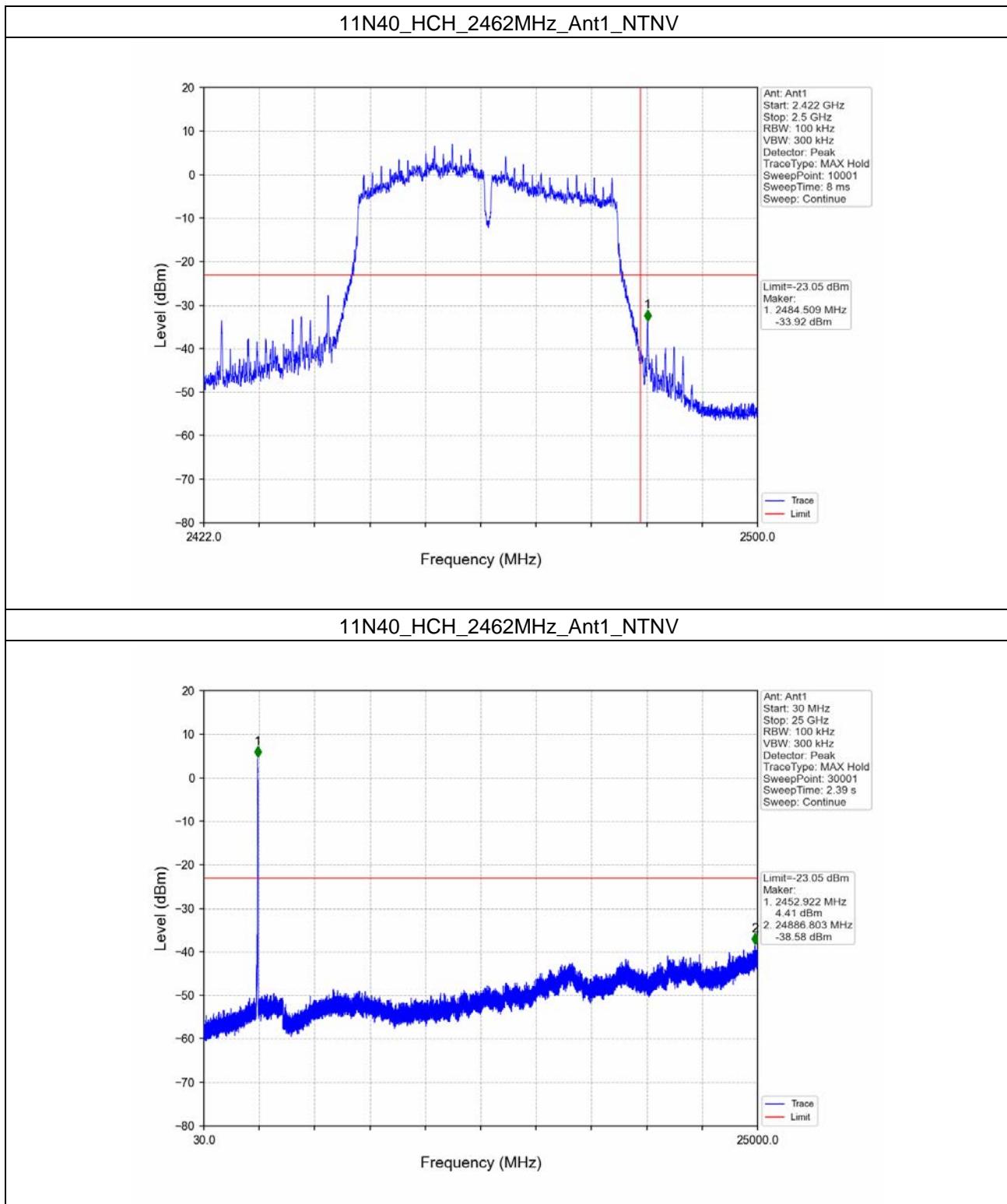
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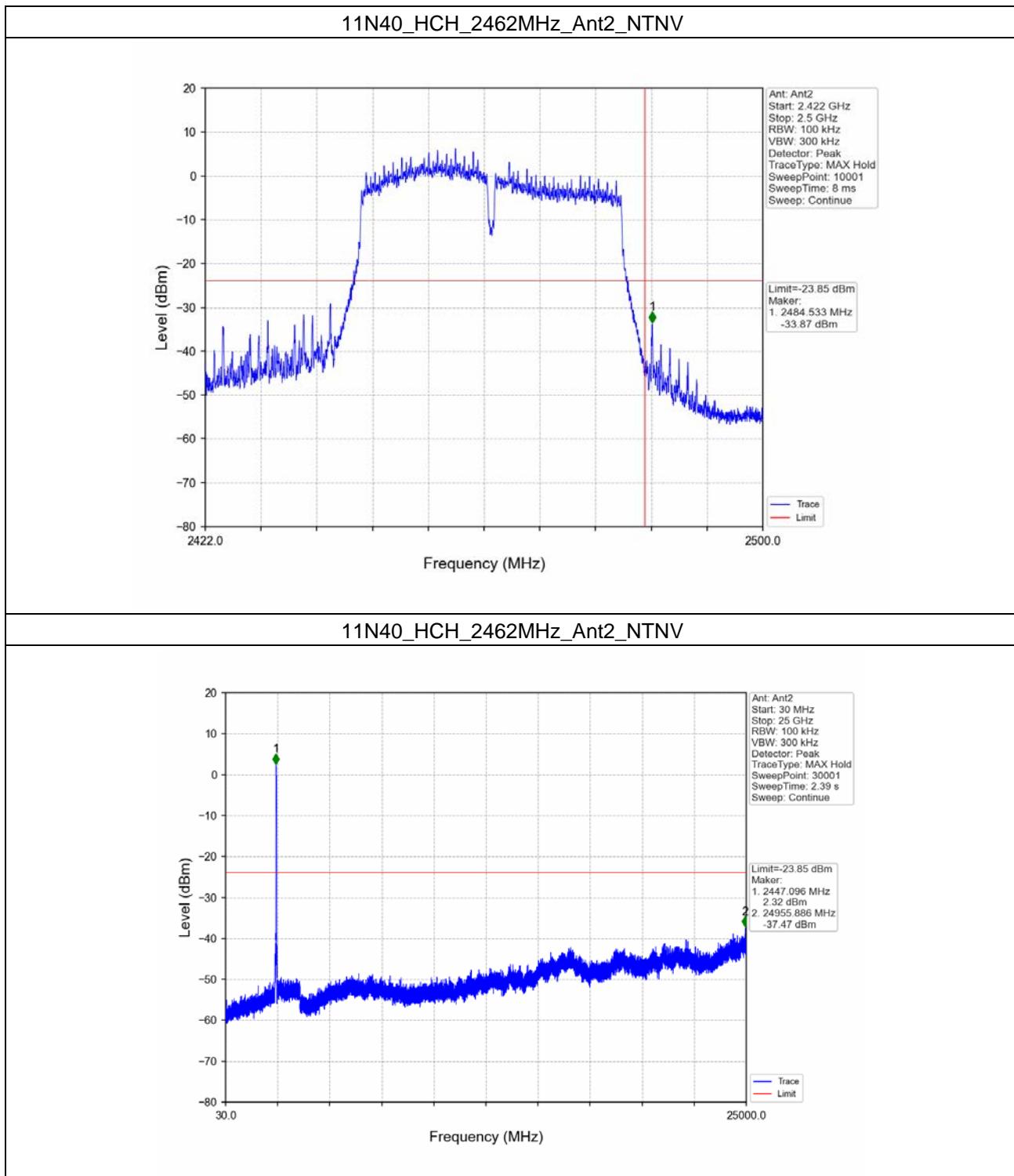
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