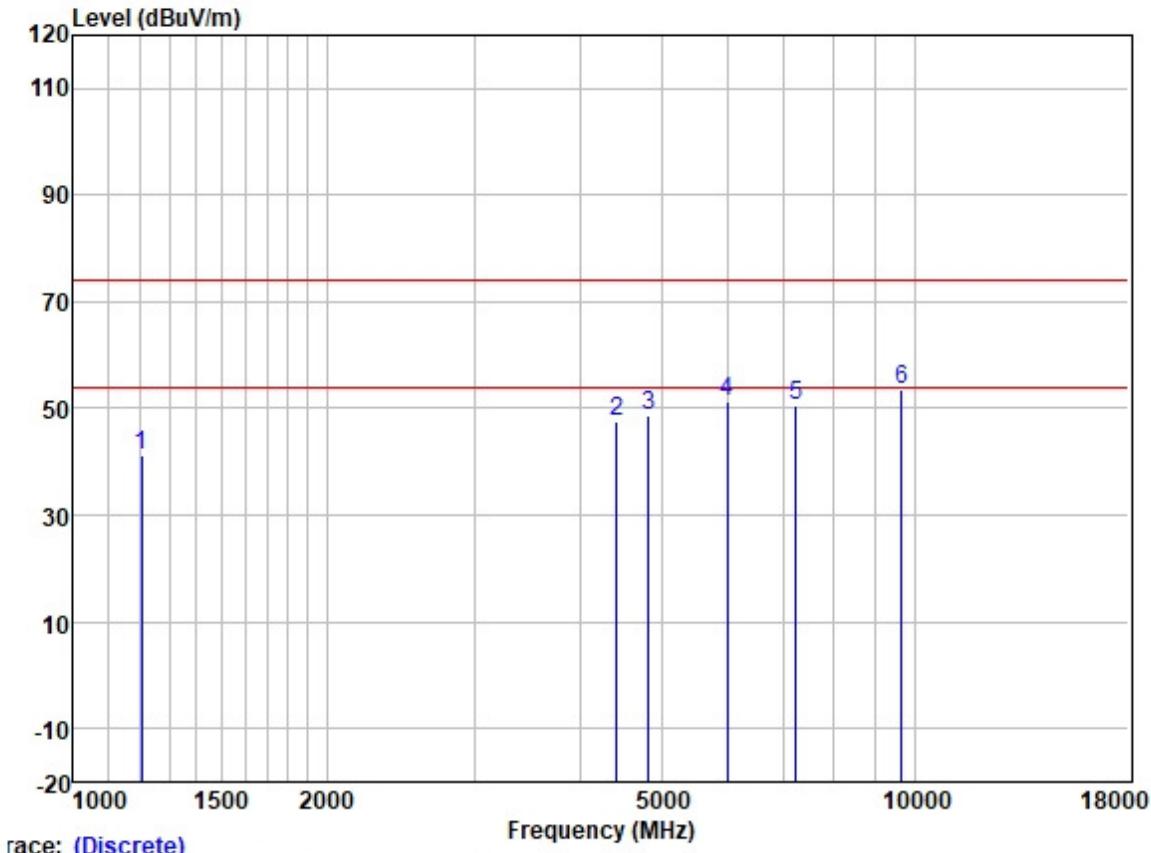


Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB	
1	1206.682	52.57	24.72	2.33	38.39	41.23	74.00	-32.77	HORIZONTAL	Peak
2	4430.628	48.81	30.72	4.78	36.81	47.50	74.00	-26.50	HORIZONTAL	Peak
3	4824.000	48.51	31.45	5.42	36.83	48.55	74.00	-25.45	HORIZONTAL	Peak
4	5984.305	49.80	32.39	6.15	36.90	51.44	74.00	-22.56	HORIZONTAL	Peak
5	7236.000	46.25	35.70	6.03	37.39	50.59	74.00	-23.41	HORIZONTAL	Peak
6	9648.000	45.51	38.40	7.06	37.42	53.55	74.00	-20.45	HORIZONTAL	Peak

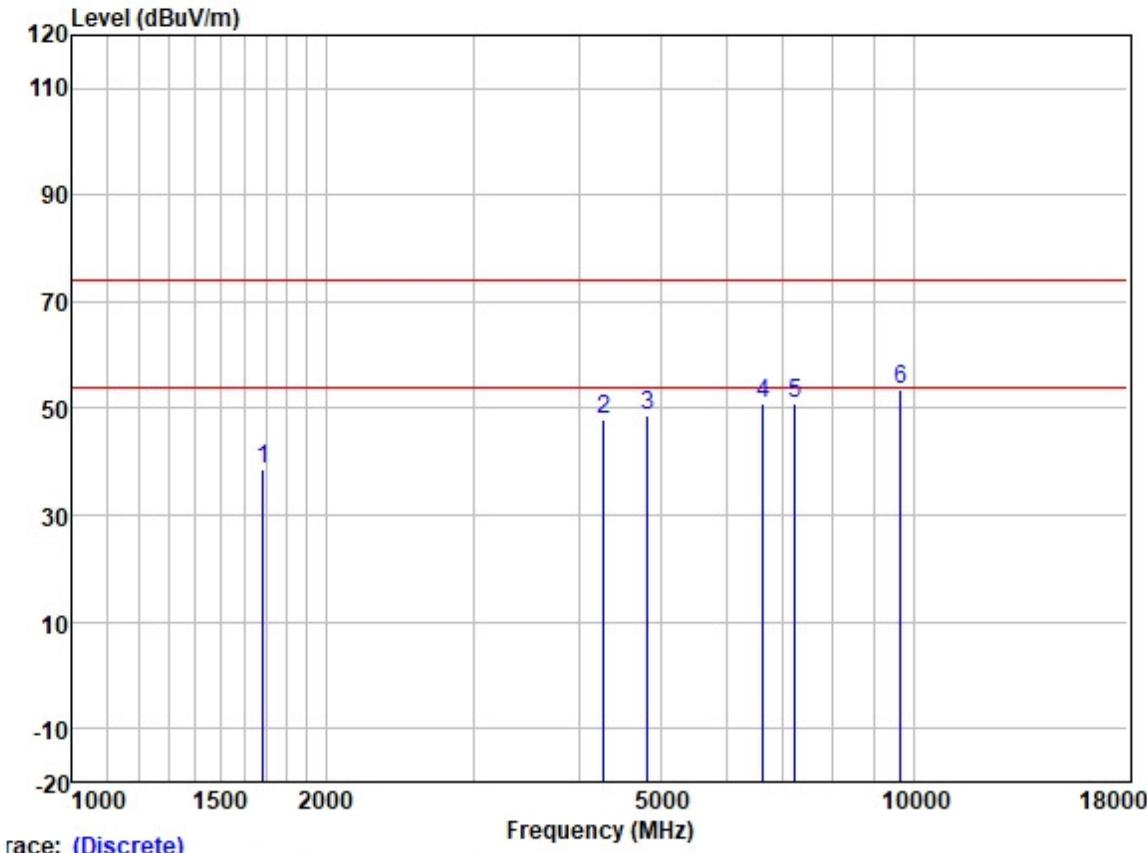
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Guangzhou Branch, Inspection & Testing Services EEC Laboratory  
No.196 Kezhi Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Mode: (Discrete)

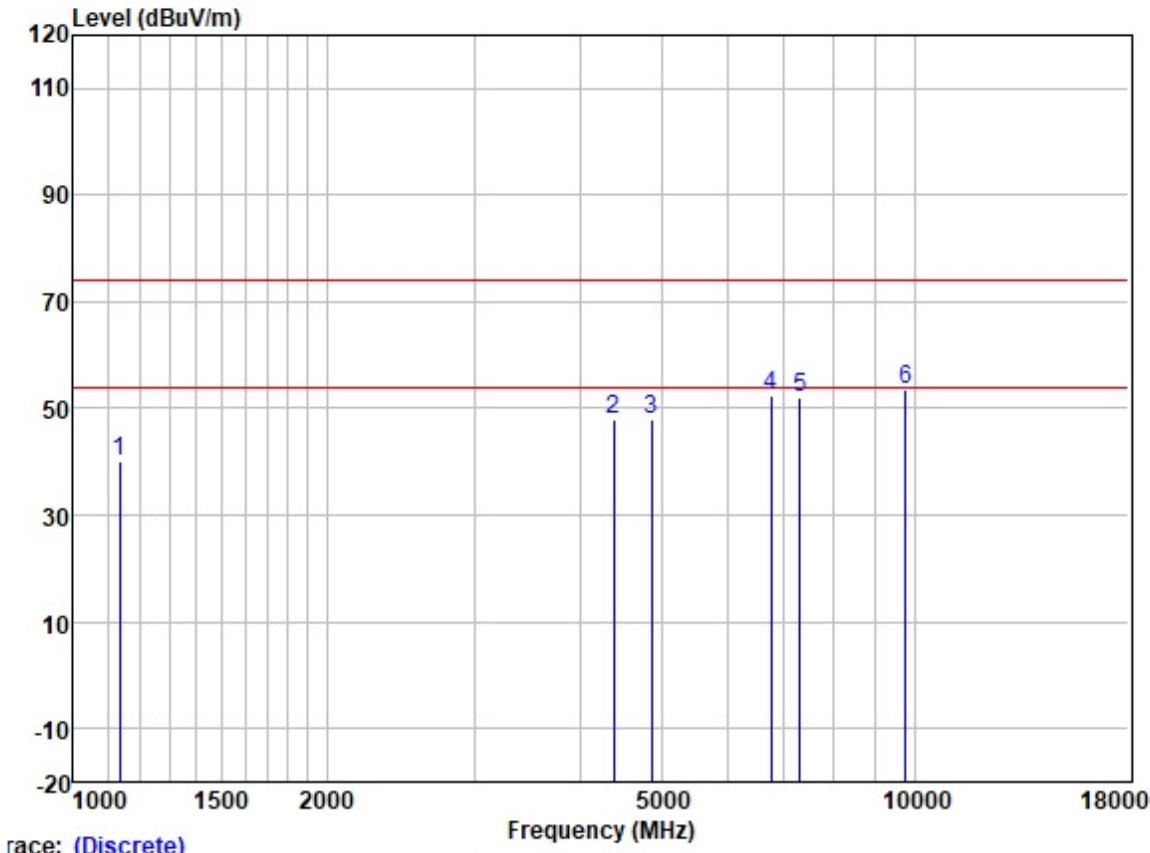
Index	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
		Freq	Level	Factor	Loss					
	MHz	dBuV	dB/m		dB	dB	dBuV/m	dBuV/m	dB	
1	1687.347	48.04	25.69	2.80	37.91	38.62	74.00	-35.38	VERTICAL	Peak
2	4279.589	49.69	30.42	4.63	36.81	47.93	74.00	-26.07	VERTICAL	Peak
3	4824.000	48.62	31.45	5.42	36.83	48.66	74.00	-25.34	VERTICAL	Peak
4	6621.375	47.89	34.20	5.83	37.05	50.87	74.00	-23.13	VERTICAL	Peak
5	7236.000	46.77	35.70	6.03	37.39	51.11	74.00	-22.89	VERTICAL	Peak
6	9648.000	45.52	38.40	7.06	37.42	53.56	74.00	-20.44	VERTICAL	Peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Mode: (Discrete)

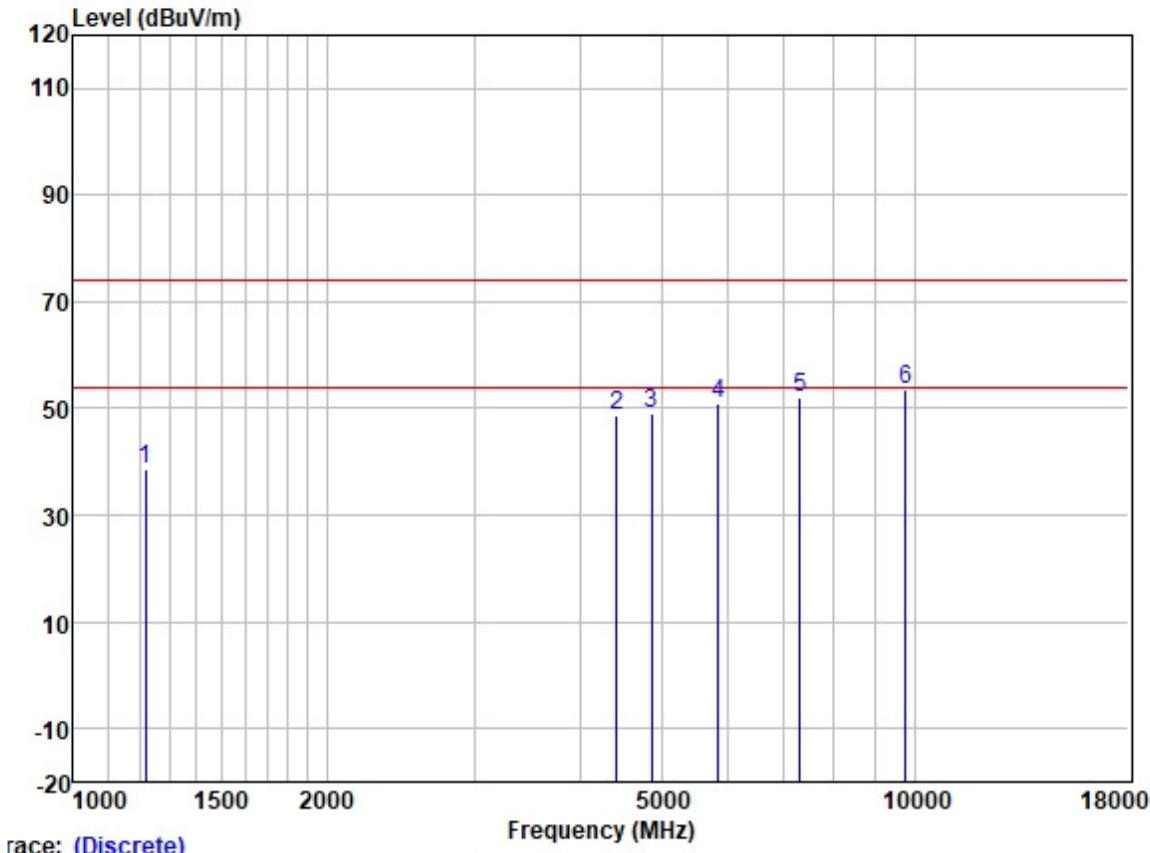
Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB	
1	1135.617	51.75	24.45	2.25	38.43	40.02	74.00	-33.98	HORIZONTAL	Peak
2	4392.376	49.31	30.66	4.70	36.81	47.86	74.00	-26.14	HORIZONTAL	Peak
3	4874.000	47.80	31.54	5.50	36.84	48.00	74.00	-26.00	HORIZONTAL	Peak
4	6756.708	49.01	34.56	5.82	37.10	52.29	74.00	-21.71	HORIZONTAL	Peak
5	7311.000	47.31	35.93	6.11	37.42	51.93	74.00	-22.07	HORIZONTAL	Peak
6	9748.000	45.40	38.50	7.02	37.41	53.51	74.00	-20.49	HORIZONTAL	Peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Race: (Discrete)

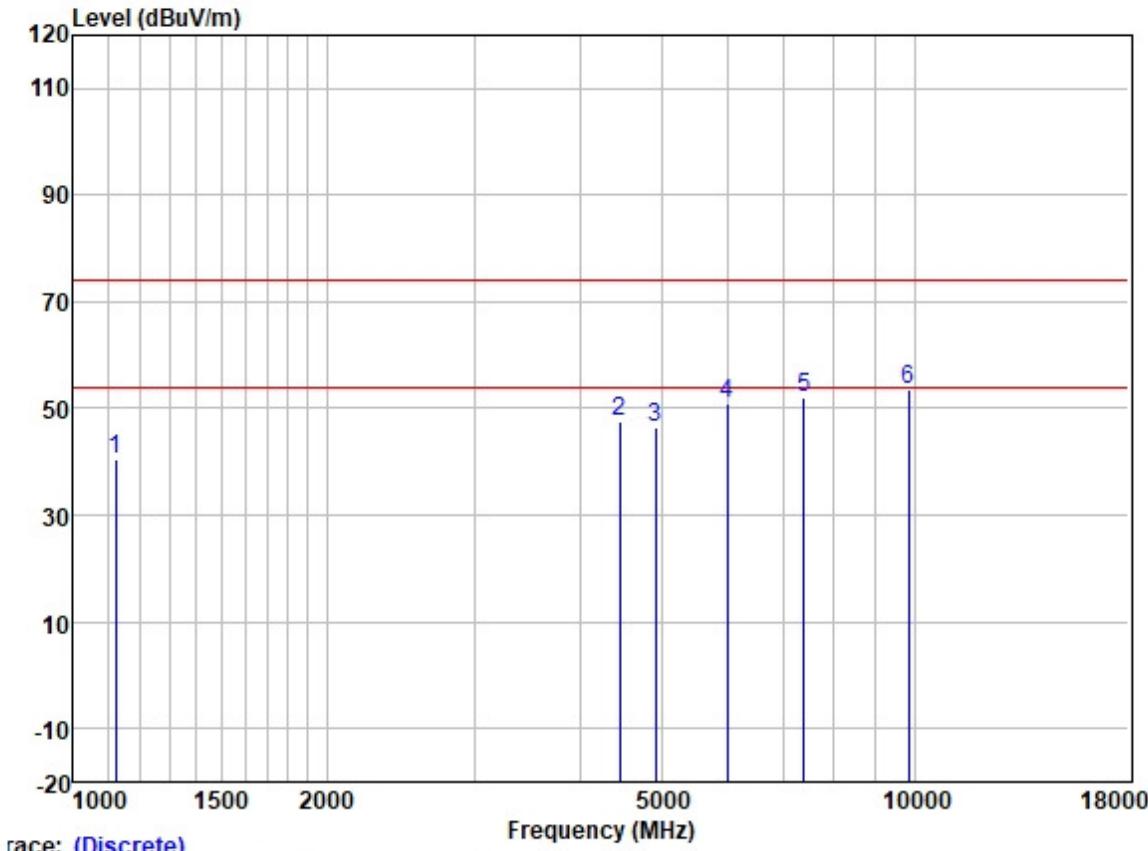
	Freq	ReadAntenna		Cable		Preamp Loss	Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
		MHz	dBuV	dB/m	dB							
1	1217.190	49.83	24.79	2.32	38.37	38.57	74.00	-35.43	VERTICAL	Peak		
2	4430.628	49.97	30.72	4.78	36.81	48.66	74.00	-25.34	VERTICAL	Peak		
3	4874.000	48.86	31.54	5.50	36.84	49.06	74.00	-24.94	VERTICAL	Peak		
4	5847.517	49.52	32.25	6.00	36.90	50.87	74.00	-23.13	VERTICAL	Peak		
5	7311.000	47.28	35.93	6.11	37.42	51.90	74.00	-22.10	VERTICAL	Peak		
6	9748.000	45.33	38.50	7.02	37.41	53.44	74.00	-20.56	VERTICAL	Peak		

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1122.563	52.38	24.42	2.22	38.43	40.59	74.00	-33.41	HORIZONTAL	Peak
2	4456.315	48.59	30.75	4.88	36.81	47.41	74.00	-26.59	HORIZONTAL	Peak
3	4924.000	46.25	31.62	5.60	36.84	46.63	74.00	-27.37	HORIZONTAL	Peak
4	5984.305	49.26	32.39	6.15	36.90	50.90	74.00	-23.10	HORIZONTAL	Peak
5	7386.000	47.24	36.17	6.19	37.45	52.15	74.00	-21.85	HORIZONTAL	Peak
6	9848.000	45.46	38.58	6.99	37.41	53.62	74.00	-20.38	HORIZONTAL	Peak

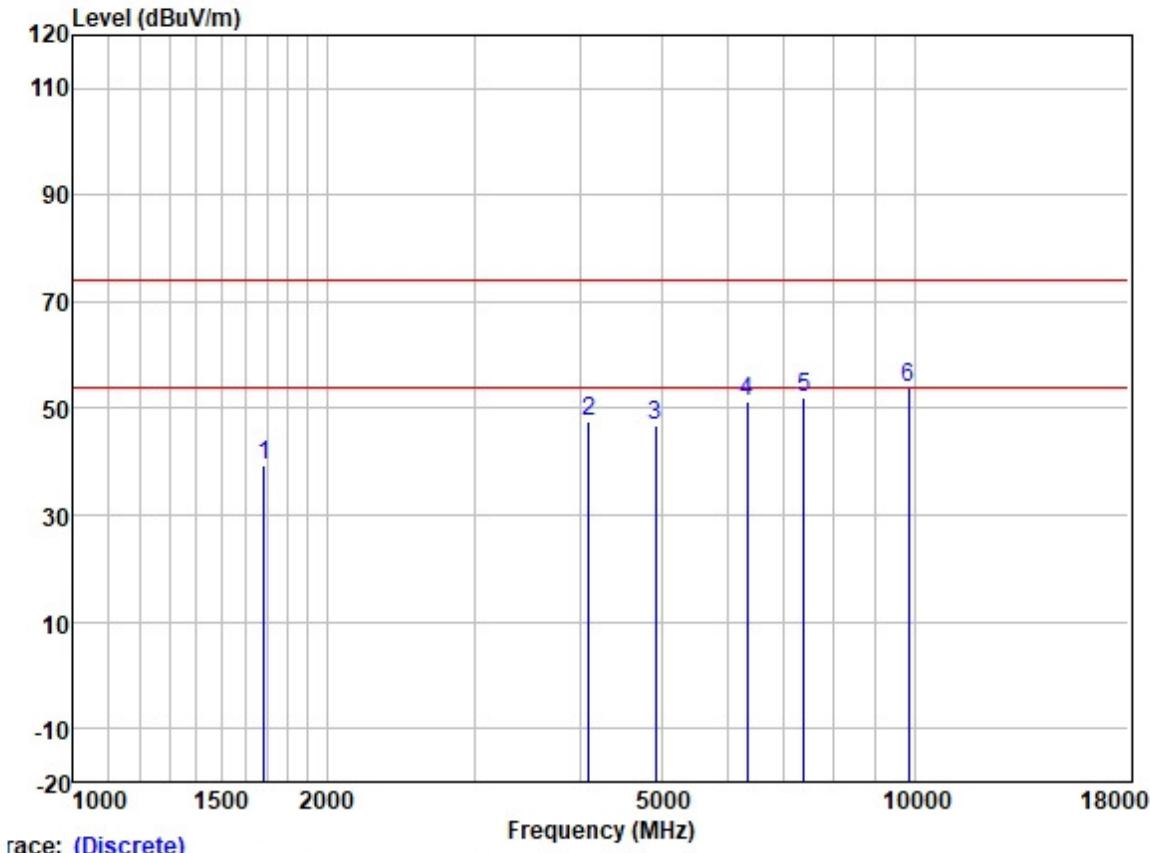
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



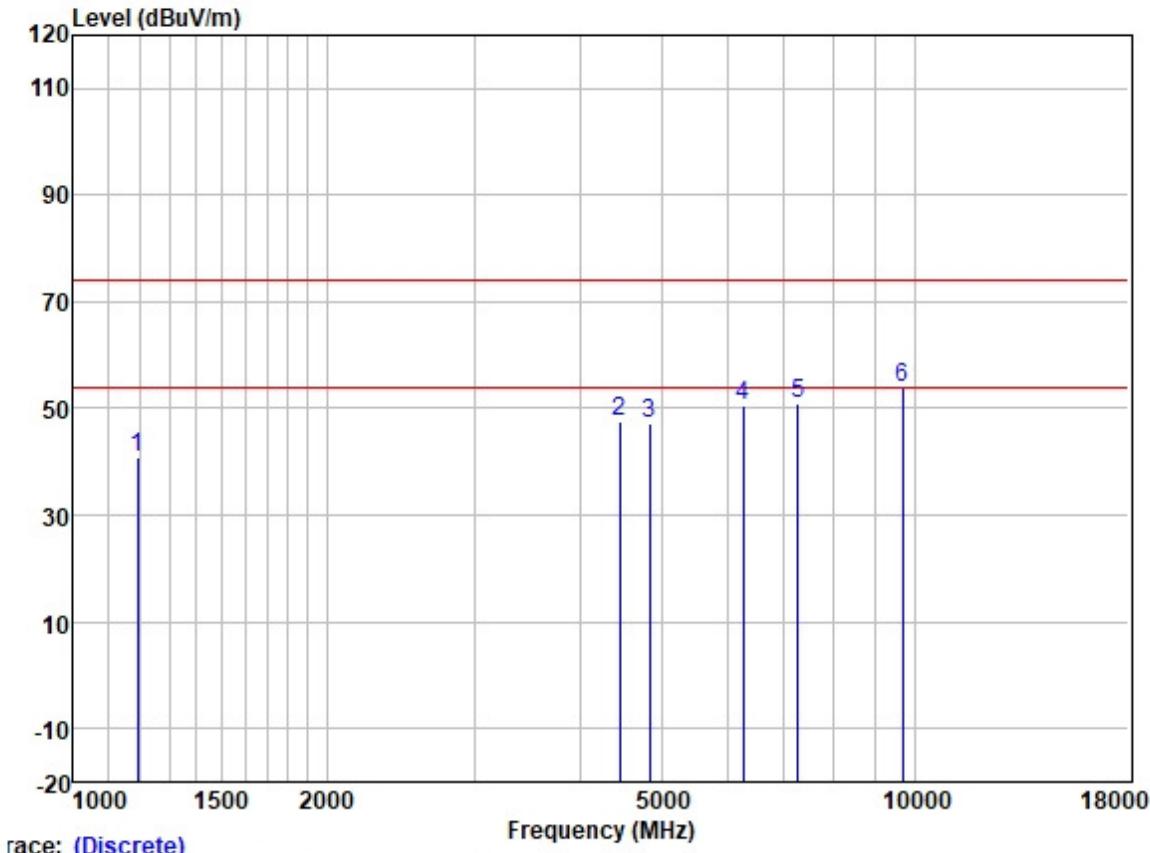
Race:	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
		Level	Factor	Loss	Factor					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1687.347	48.81	25.69	2.80	37.91	39.39	74.00	-34.61	VERTICAL	Peak
2	4098.010	49.93	29.94	4.60	36.80	47.67	74.00	-26.33	VERTICAL	Peak
3	4924.000	46.43	31.62	5.60	36.84	46.81	74.00	-27.19	VERTICAL	Peak
4	6322.136	48.66	33.51	5.95	36.97	51.15	74.00	-22.85	VERTICAL	Peak
5	7386.000	47.16	36.17	6.19	37.45	52.07	74.00	-21.93	VERTICAL	Peak
6	9848.000	45.76	38.58	6.99	37.41	53.92	74.00	-20.08	VERTICAL	Peak

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Race: (Discrete)

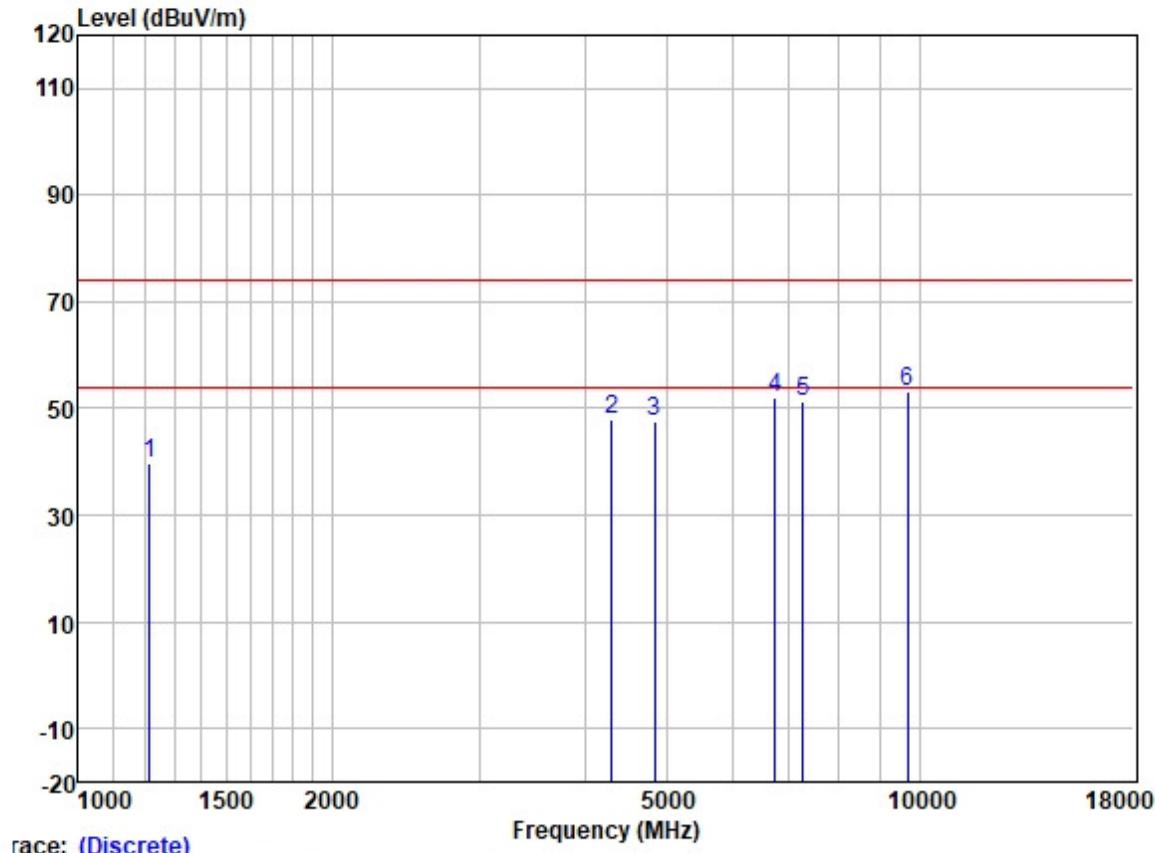
Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1192.811	52.21	24.65	2.36	38.39	40.83	74.00	-33.17	HORIZONTAL	Peak
2	4456.315	48.93	30.75	4.88	36.81	47.75	74.00	-26.25	HORIZONTAL	Peak
3	4844.000	47.18	31.50	5.45	36.84	47.29	74.00	-26.71	HORIZONTAL	Peak
4	6249.464	48.47	33.20	6.02	36.95	50.74	74.00	-23.26	HORIZONTAL	Peak
5	7266.000	46.45	35.78	6.06	37.41	50.88	74.00	-23.12	HORIZONTAL	Peak
6	9688.000	45.87	38.44	7.04	37.42	53.93	74.00	-20.07	HORIZONTAL	Peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Race: (Discrete)

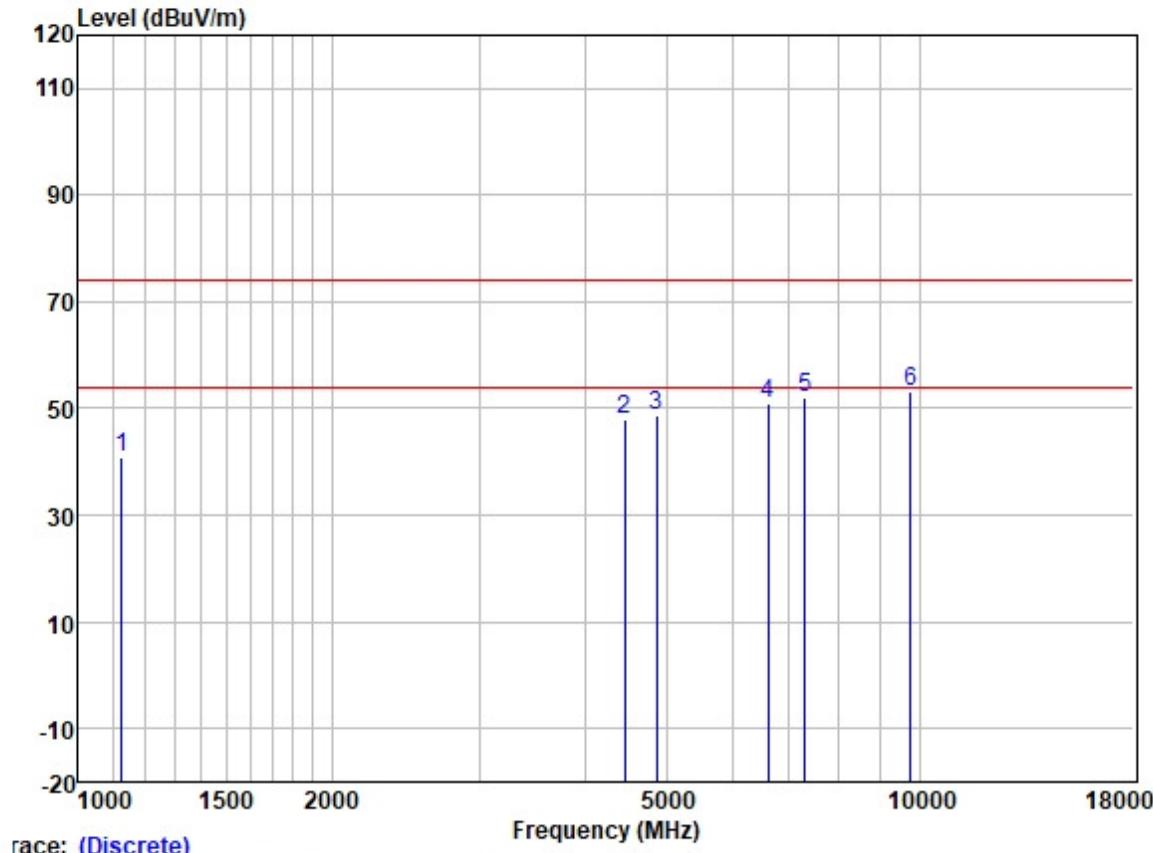
Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	Line				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1 1213.677	50.89	24.77	2.32	38.37	39.61	74.00	-34.39	VERTICAL	Peak	
2 4304.400	49.51	30.48	4.65	36.81	47.83	74.00	-26.17	VERTICAL	Peak	
3 4844.000	47.36	31.50	5.45	36.84	47.47	74.00	-26.53	VERTICAL	Peak	
4 6737.207	48.79	34.50	5.82	37.09	52.02	74.00	-21.98	VERTICAL	Peak	
5 7266.000	46.77	35.78	6.06	37.41	51.20	74.00	-22.80	VERTICAL	Peak	
6 9688.000	45.14	38.44	7.04	37.42	53.20	74.00	-20.80	VERTICAL	Peak	

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Mode: (Discrete)

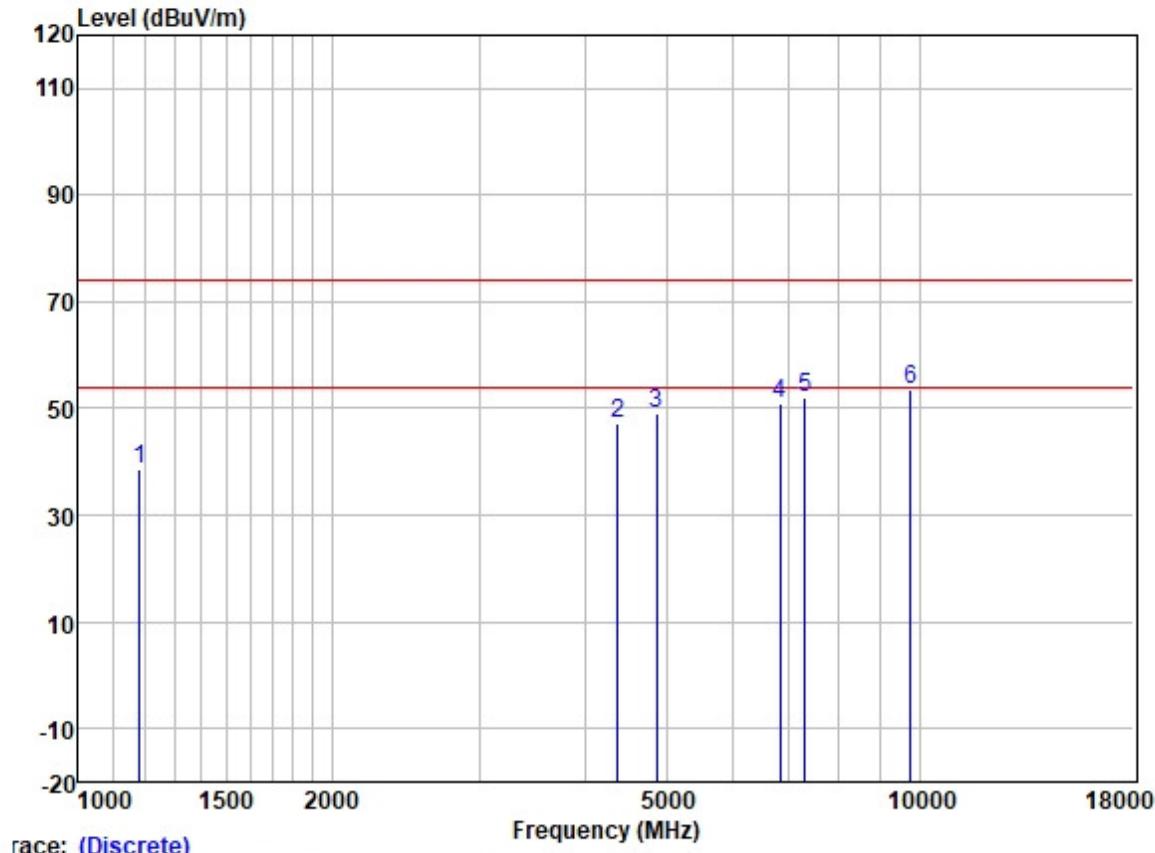
Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1125.813	52.83	24.42	2.21	38.43	41.03	74.00	-32.97	HORIZONTAL	Peak
2	4456.315	49.25	30.75	4.88	36.81	48.07	74.00	-25.93	HORIZONTAL	Peak
3	4874.000	48.36	31.54	5.50	36.84	48.56	74.00	-25.44	HORIZONTAL	Peak
4	6602.265	47.92	34.16	5.84	37.04	50.88	74.00	-23.12	HORIZONTAL	Peak
5	7311.000	47.31	35.93	6.11	37.42	51.93	74.00	-22.07	HORIZONTAL	Peak
6	9748.000	44.91	38.50	7.02	37.41	53.02	74.00	-20.98	HORIZONTAL	Peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



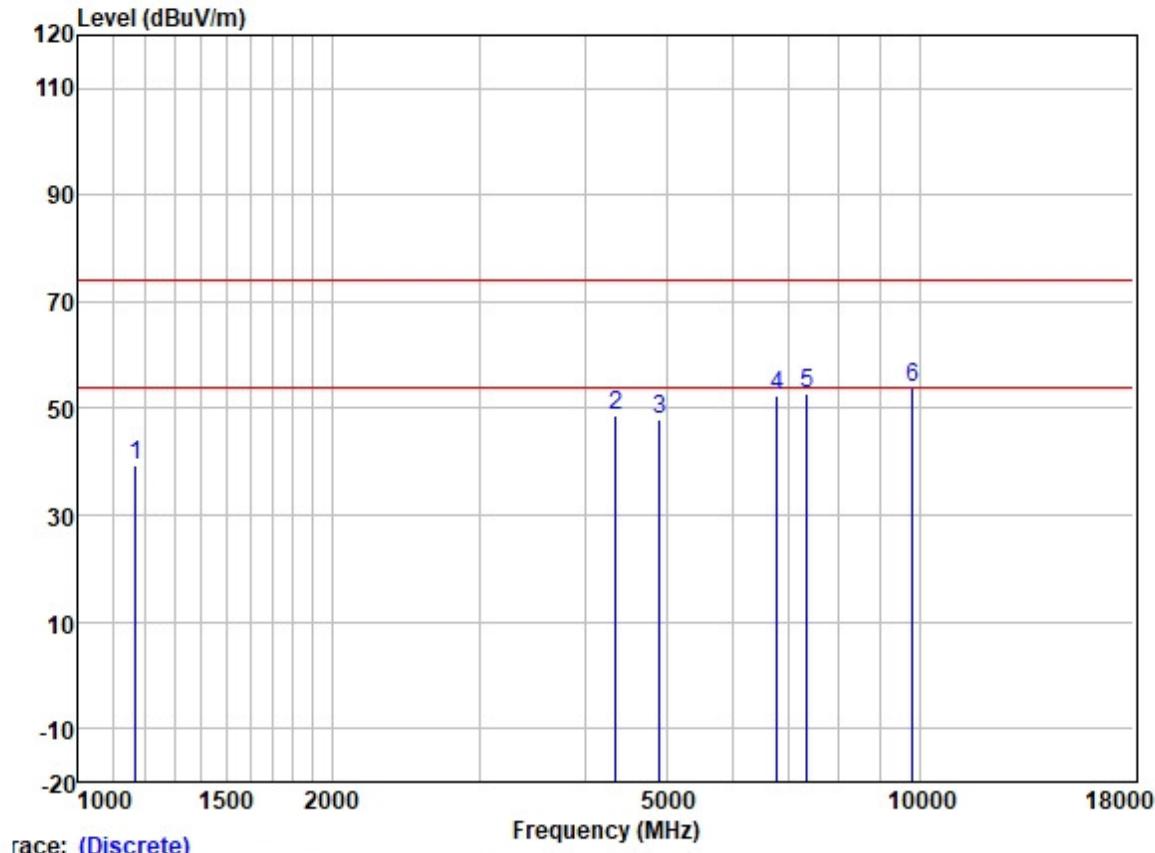
ReadAntenna	Cable	Preamp	Limit	Over	Remark								
					Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB			
1	1182.513	50.12	24.60	2.37	38.40	38.69	74.00	-35.31	VERTICAL	Peak			
2	4379.699	48.73	30.64	4.69	36.81	47.25	74.00	-26.75	VERTICAL	Peak			
3	4874.000	48.80	31.54	5.50	36.84	49.00	74.00	-25.00	VERTICAL	Peak			
4	6835.278	47.67	34.74	5.82	37.13	51.10	74.00	-22.90	VERTICAL	Peak			
5	7311.000	47.54	35.93	6.11	37.42	52.16	74.00	-21.84	VERTICAL	Peak			
6	9748.000	45.37	38.50	7.02	37.41	53.48	74.00	-20.52	VERTICAL	Peak			

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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



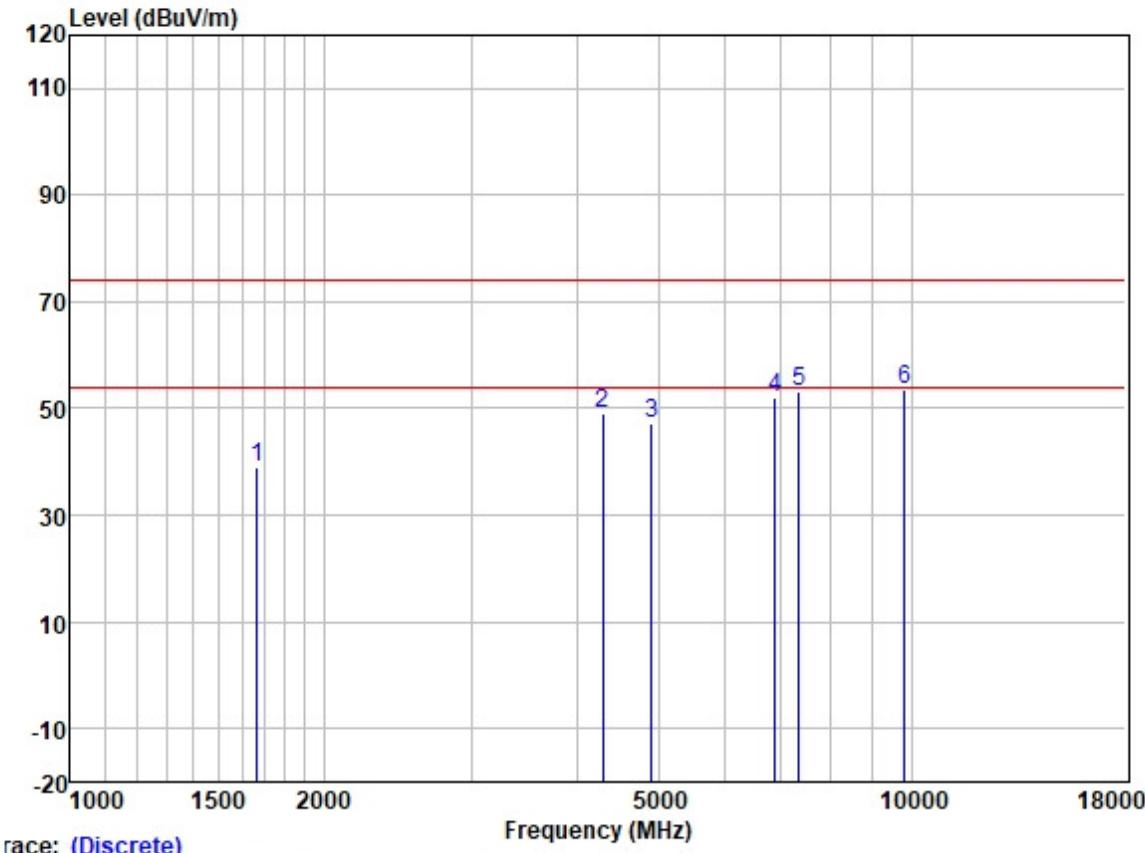
	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
		Level	Factor	Loss	Factor					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1168.920	50.92	24.55	2.39	38.40	39.46	74.00	-34.54	HORIZONTAL	Peak
2	4354.454	50.21	30.59	4.68	36.81	48.67	74.00	-25.33	HORIZONTAL	Peak
3	4904.000	47.70	31.58	5.55	36.84	47.99	74.00	-26.01	HORIZONTAL	Peak
4	6776.265	48.94	34.61	5.82	37.11	52.26	74.00	-21.74	HORIZONTAL	Peak
5	7356.000	47.85	36.06	6.15	37.44	52.62	74.00	-21.38	HORIZONTAL	Peak
6	9808.000	45.85	38.56	7.00	37.41	54.00	74.00	-20.00	HORIZONTAL	Peak

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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Mode: (Discrete)

Line	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
		Freq	Level	Factor	Loss					
	MHz	dBuV	dB/m		dB	dB	dBuV/m	dBuV/m	dB	
1	1667.951	48.60	25.66	2.80	37.91	39.15	74.00	-34.85	VERTICAL	Peak
2	4291.977	50.68	30.45	4.64	36.81	48.96	74.00	-25.04	VERTICAL	Peak
3	4904.000	46.77	31.58	5.55	36.84	47.06	74.00	-26.94	VERTICAL	Peak
4	6874.906	48.67	34.82	5.82	37.16	52.15	74.00	-21.85	VERTICAL	Peak
5	7356.000	48.28	36.06	6.15	37.44	53.05	74.00	-20.95	VERTICAL	Peak
6	9808.000	45.56	38.56	7.00	37.41	53.71	74.00	-20.29	VERTICAL	Peak

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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR2109021038AT



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## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - external and internal photos for GZCR2109021038AT



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## 10 Appendix

### 1. Duty Cycle

#### 1.1 Test Result

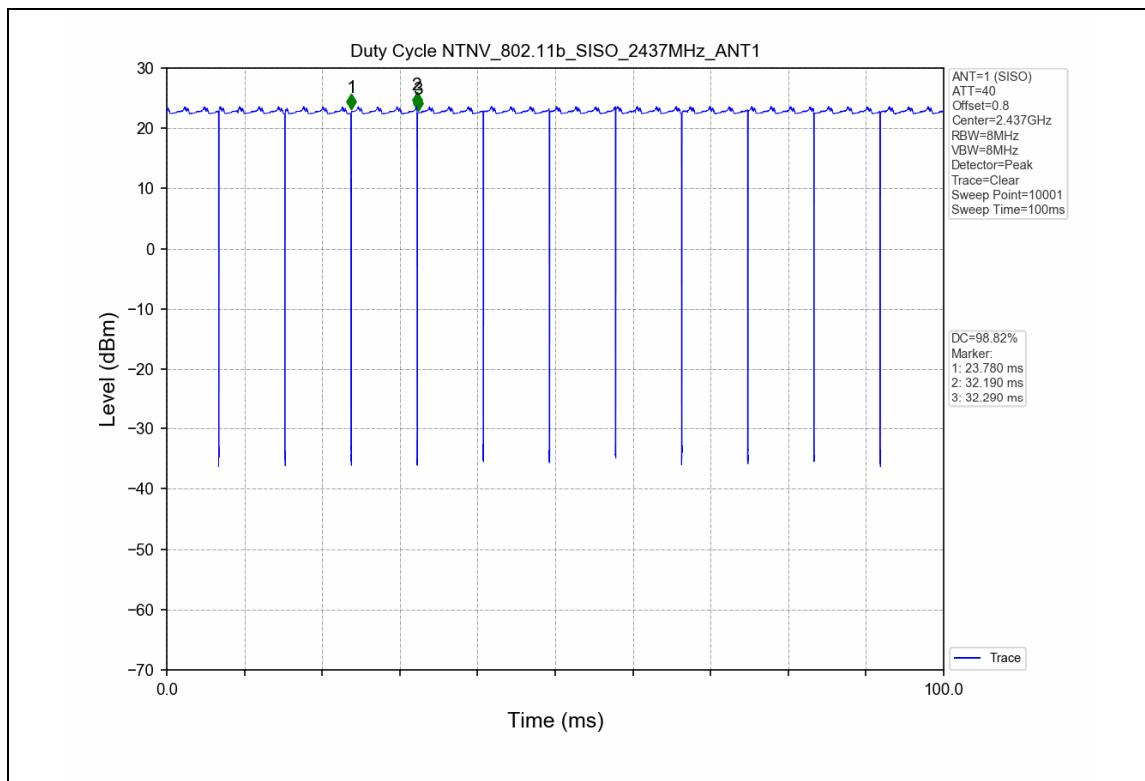
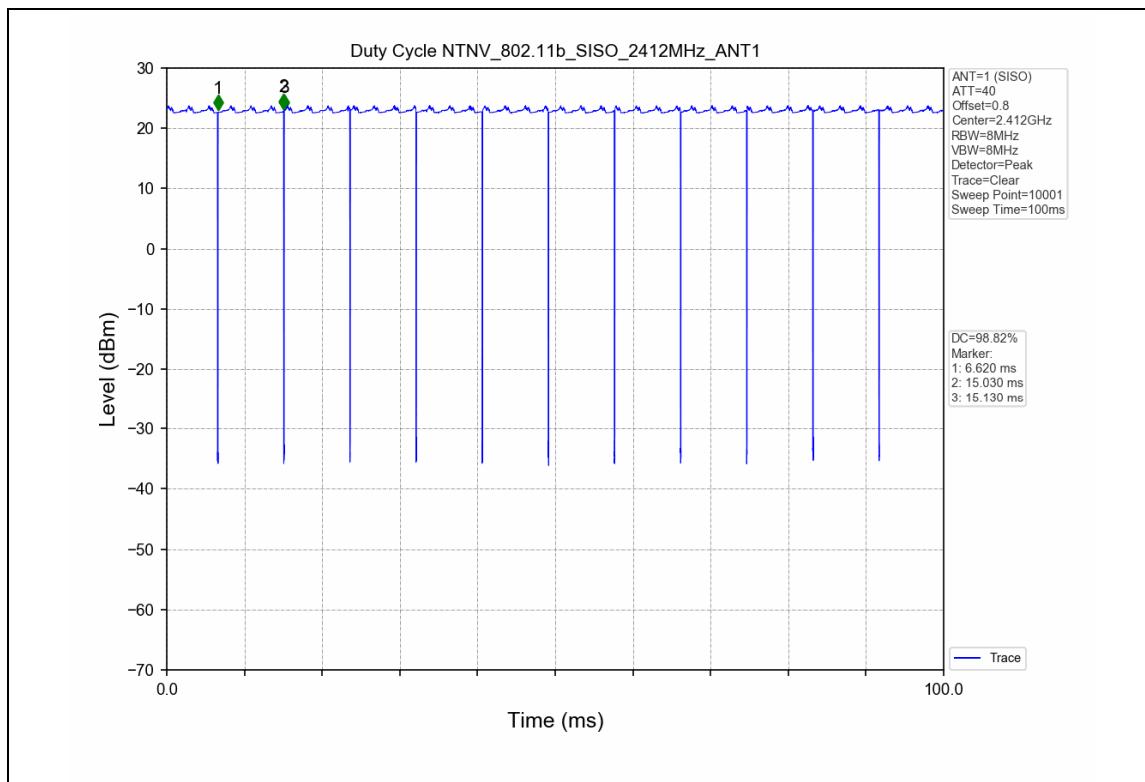
Test Mode	Channel Frequency (MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	8.410	8.510	98.82	0.05
	2437	SISO	1	8.410	8.510	98.82	0.05
	2462	SISO	1	8.410	8.510	98.82	0.05
802.11g	2412	SISO	1	1.364	1.466	93.04	0.31
	2437	SISO	1	1.365	1.467	93.05	0.31
	2462	SISO	1	1.365	1.466	93.11	0.31
802.11n(HT20)	2412	SISO	1	1.306	1.410	92.62	0.33
	2437	SISO	1	1.308	1.411	92.70	0.33
	2462	SISO	1	1.307	1.411	92.63	0.33
802.11n(HT40)	2422	SISO	1	0.619	0.660	93.79	0.28
	2437	SISO	1	0.619	0.660	93.79	0.28
	2452	SISO	1	0.618	0.660	93.64	0.29

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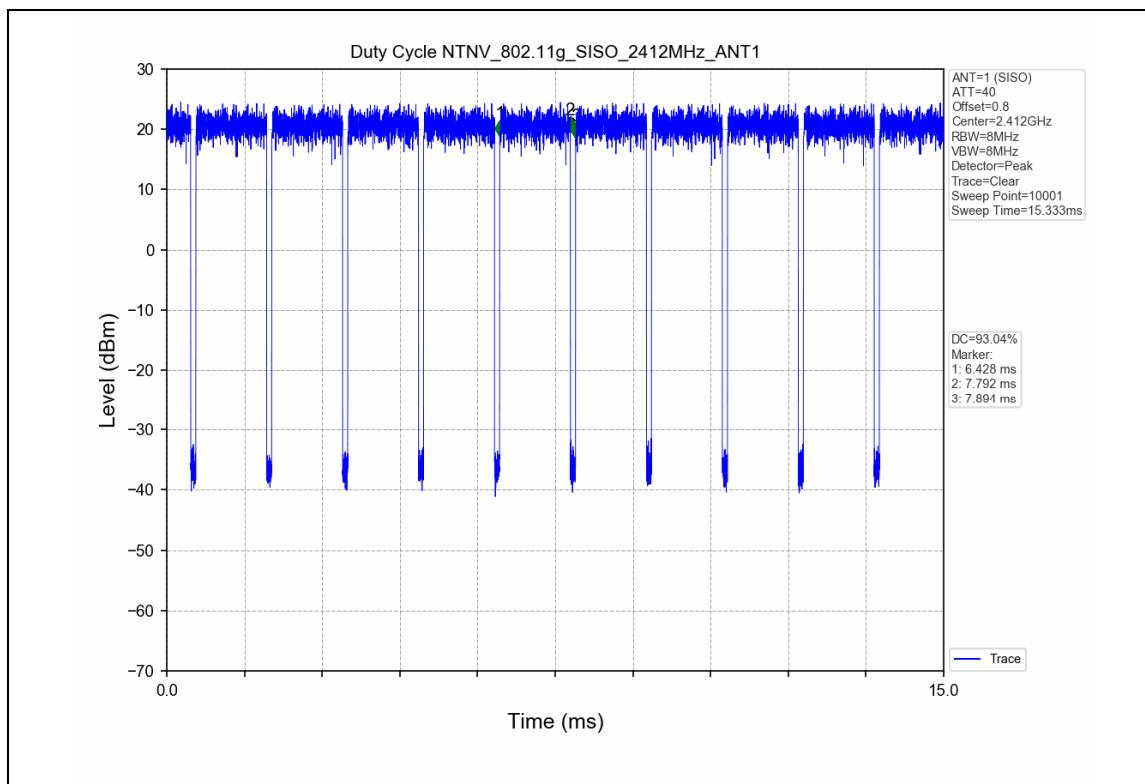
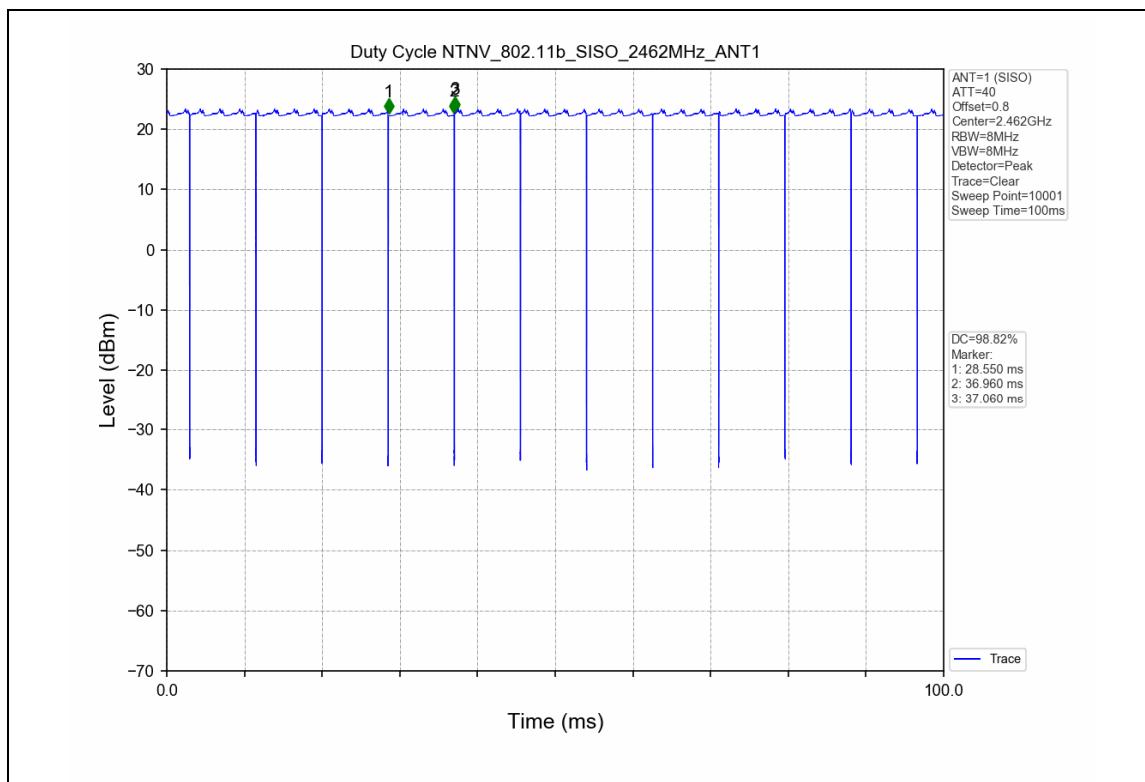


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**1.2 Test Graph**

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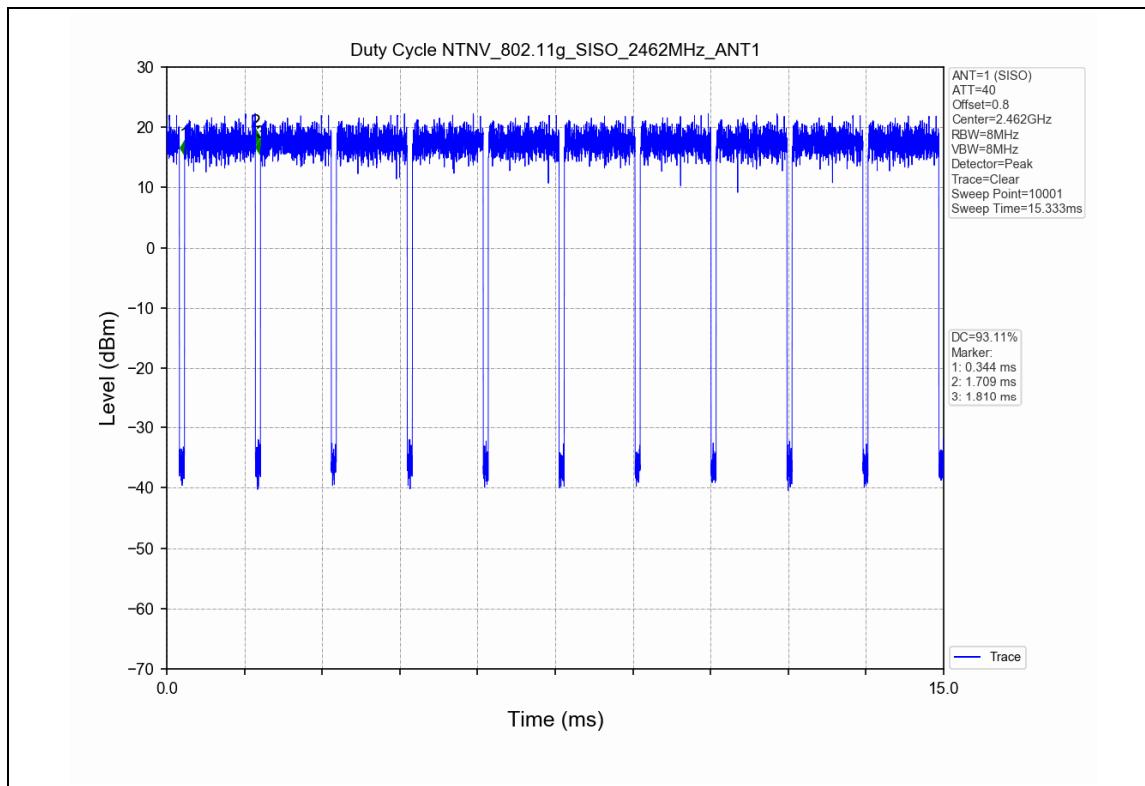
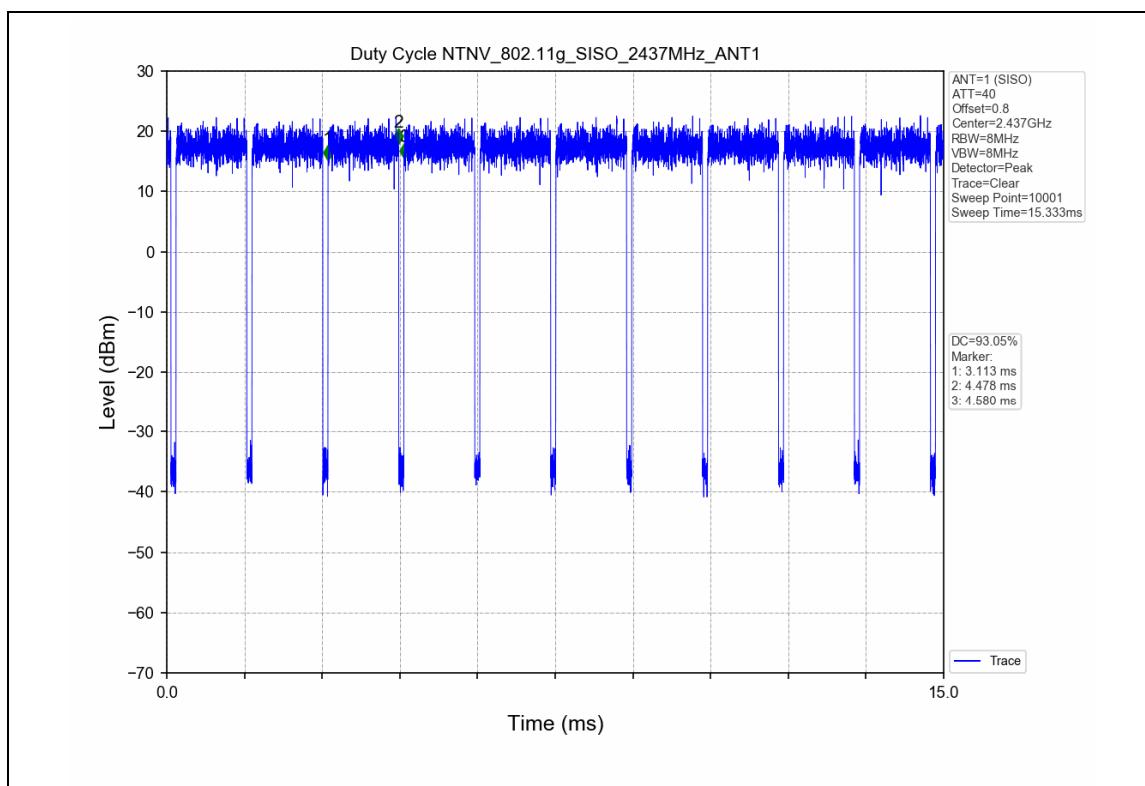
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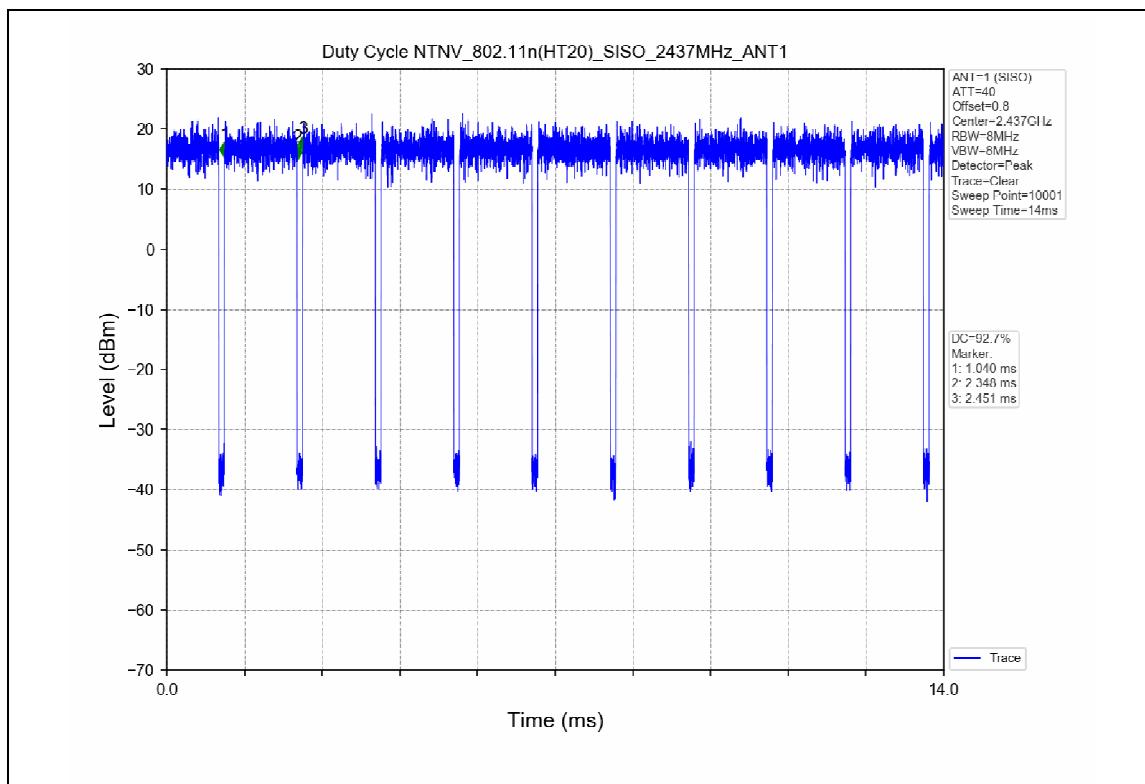
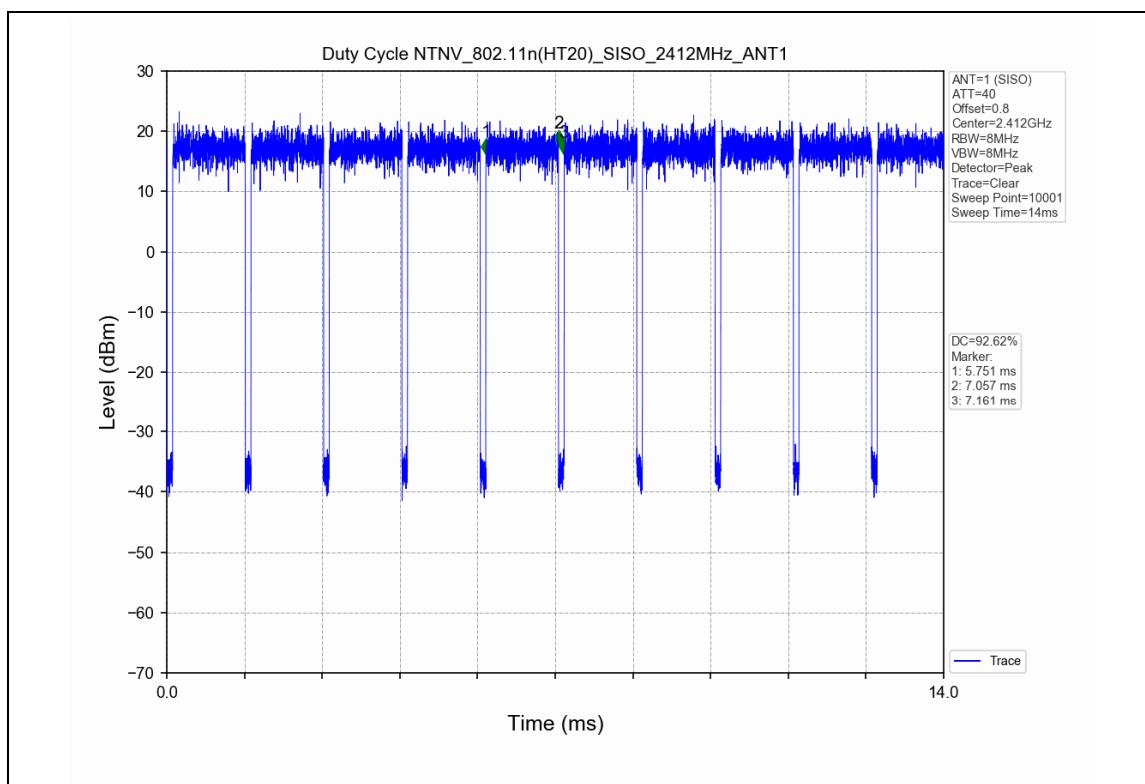


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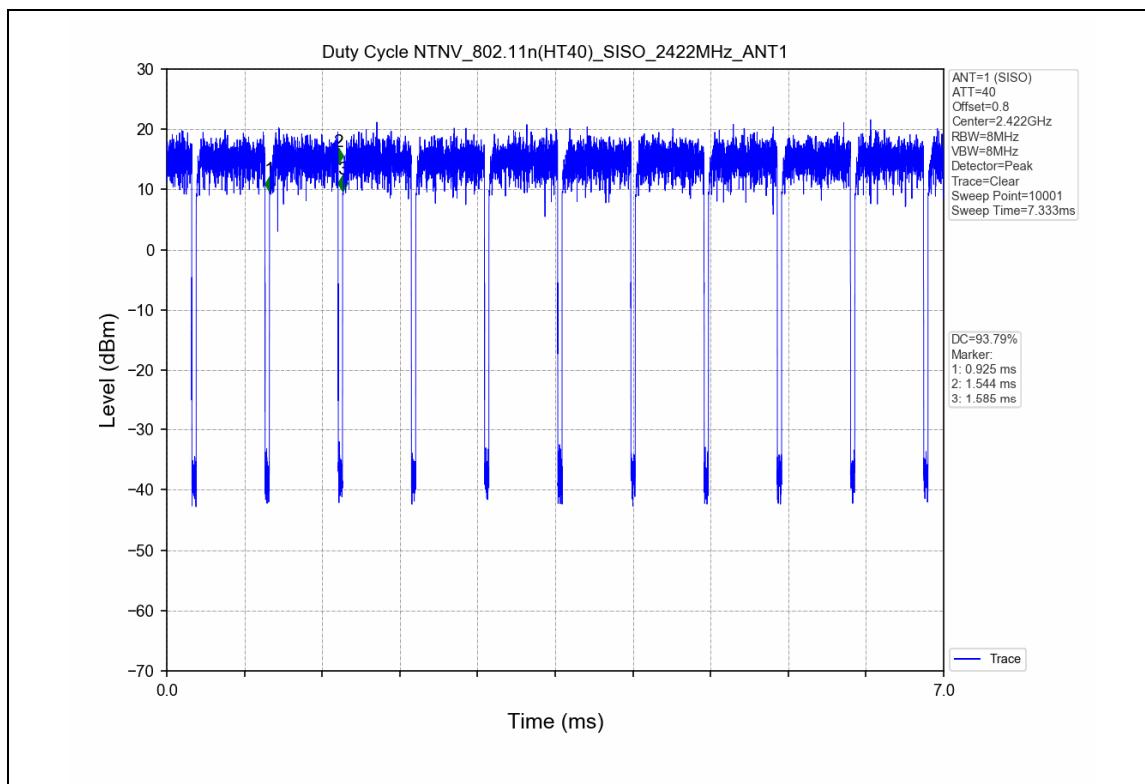
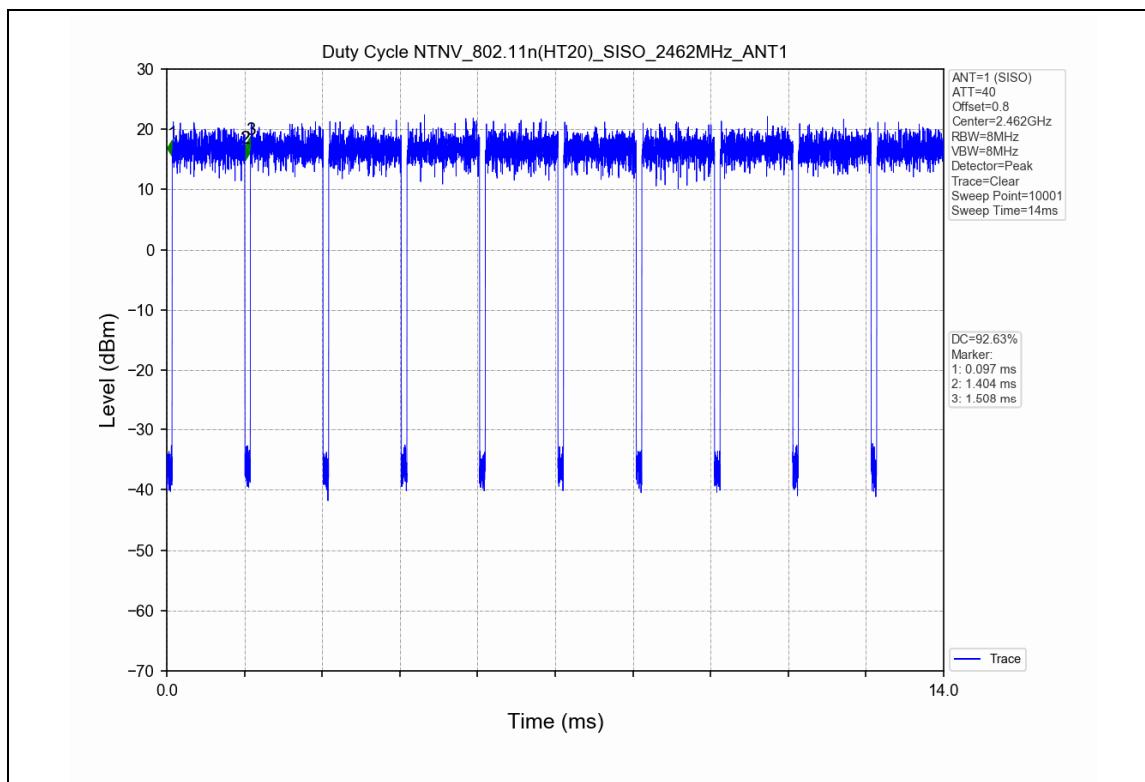
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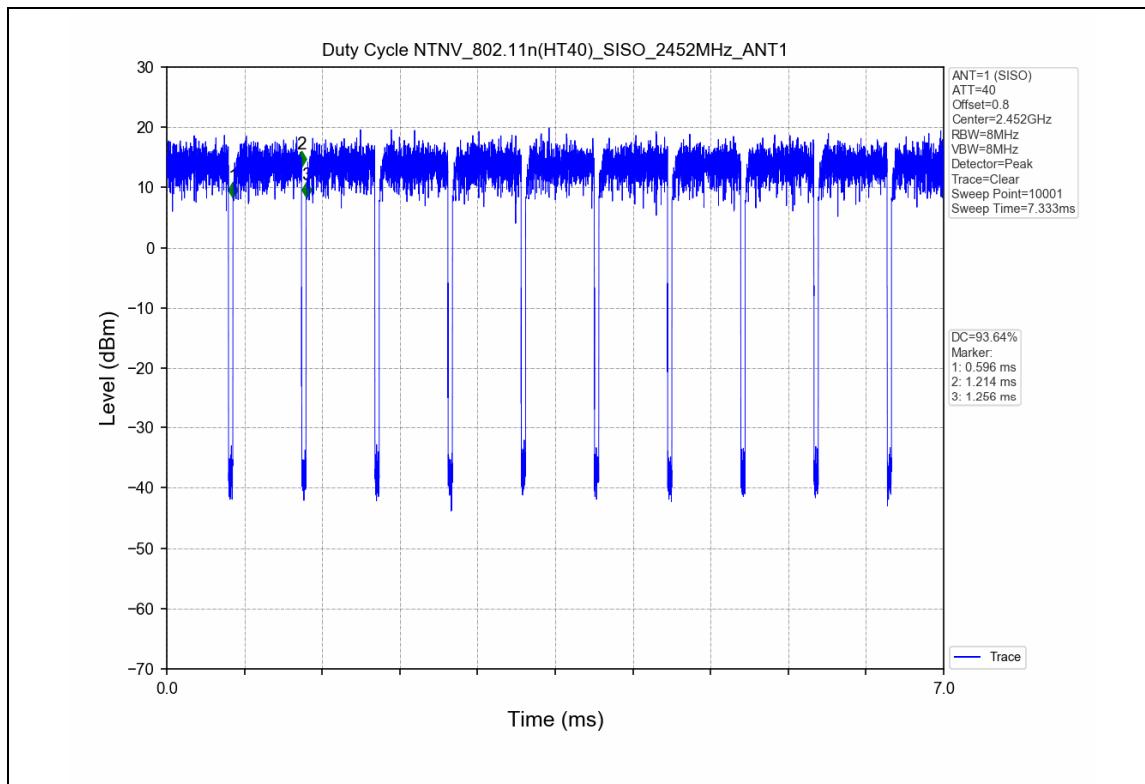
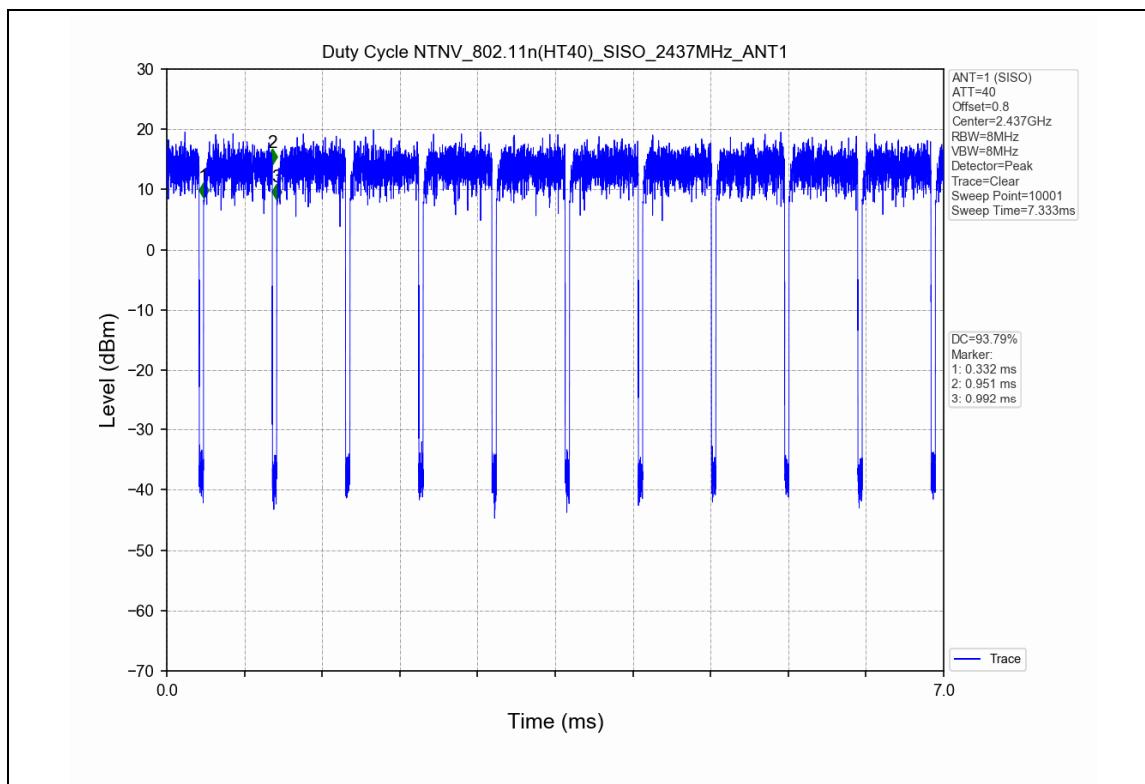


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**2. Bandwidth****2.1 Test Result**

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	7.599	≥0.5	PASS
	2437	SISO	1	8.054	≥0.5	PASS
	2462	SISO	1	8.065	≥0.5	PASS
802.11g	2412	SISO	1	15.220	≥0.5	PASS
	2437	SISO	1	15.222	≥0.5	PASS
	2462	SISO	1	15.211	≥0.5	PASS
802.11n(HT20)	2412	SISO	1	15.212	≥0.5	PASS
	2437	SISO	1	15.220	≥0.5	PASS
	2462	SISO	1	15.186	≥0.5	PASS
802.11n(HT40)	2422	SISO	1	35.311	≥0.5	PASS
	2437	SISO	1	35.276	≥0.5	PASS
	2452	SISO	1	35.308	≥0.5	PASS

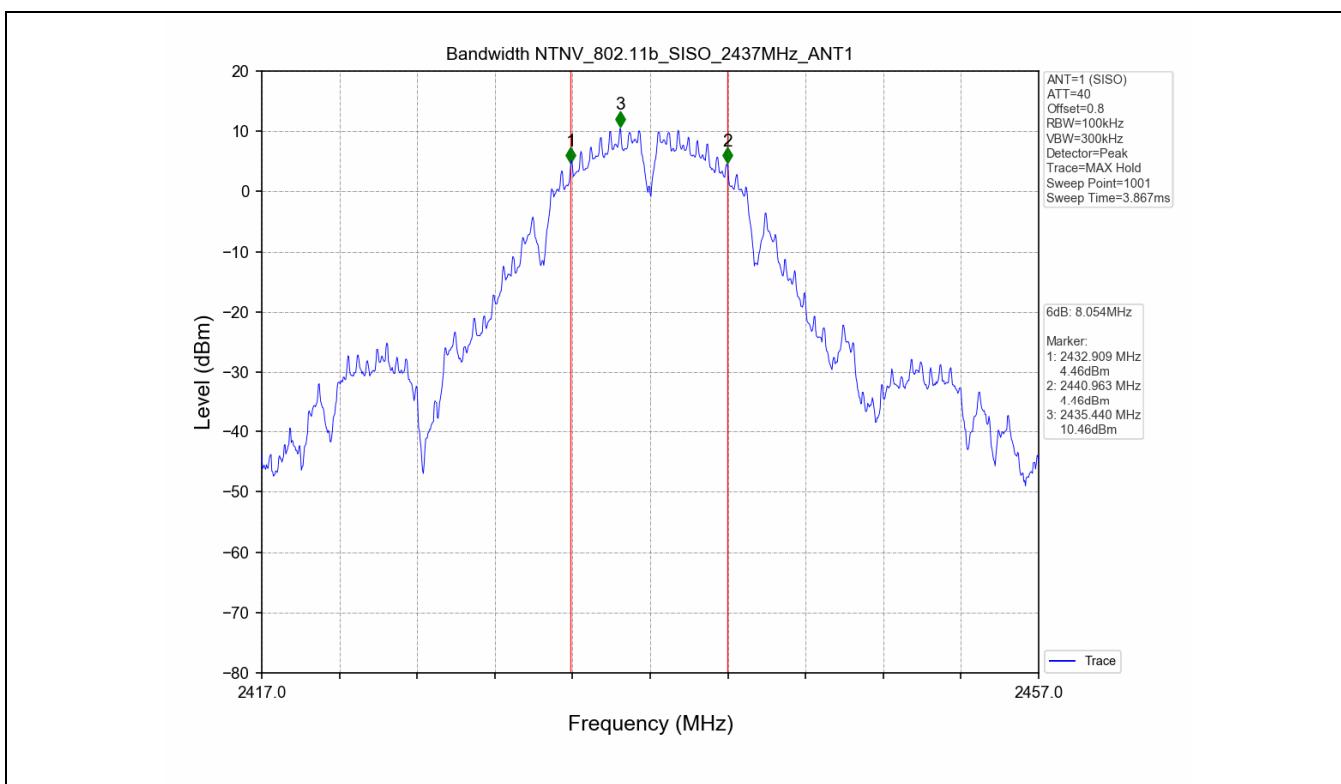
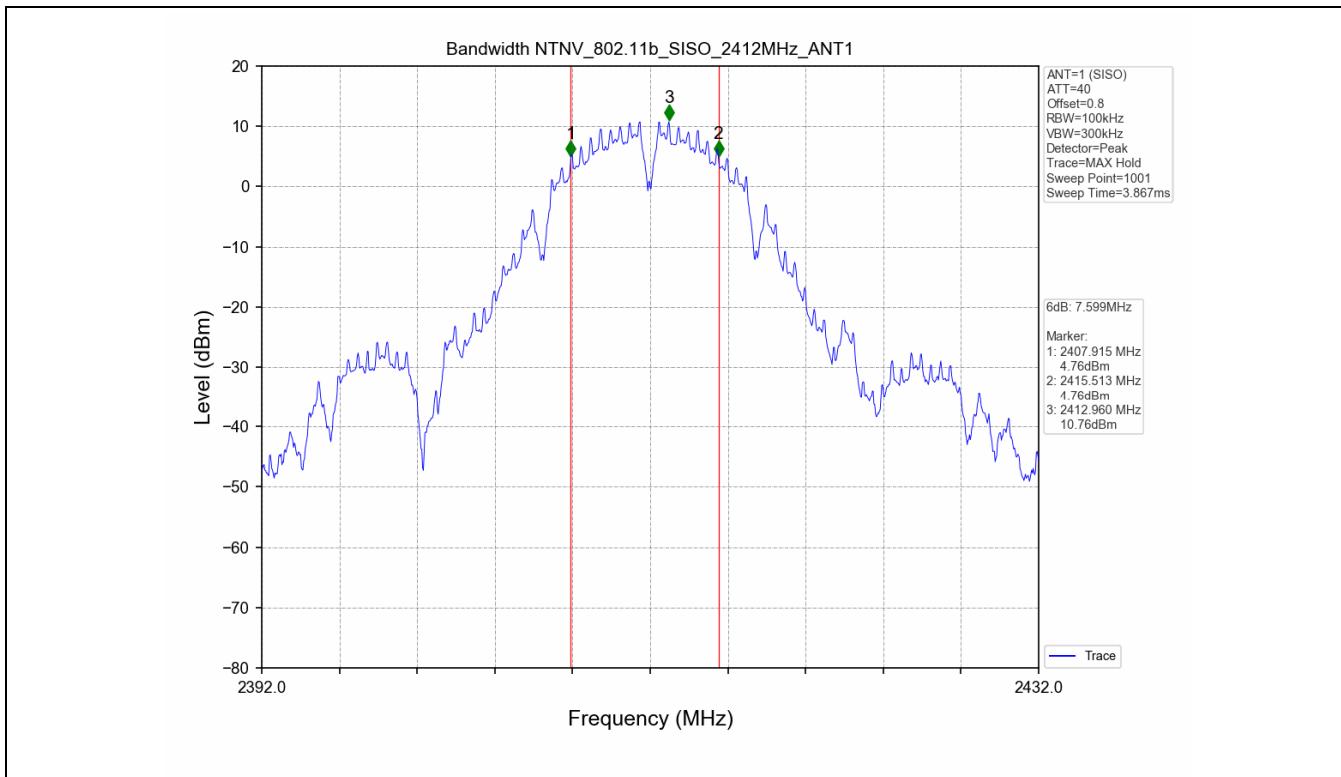
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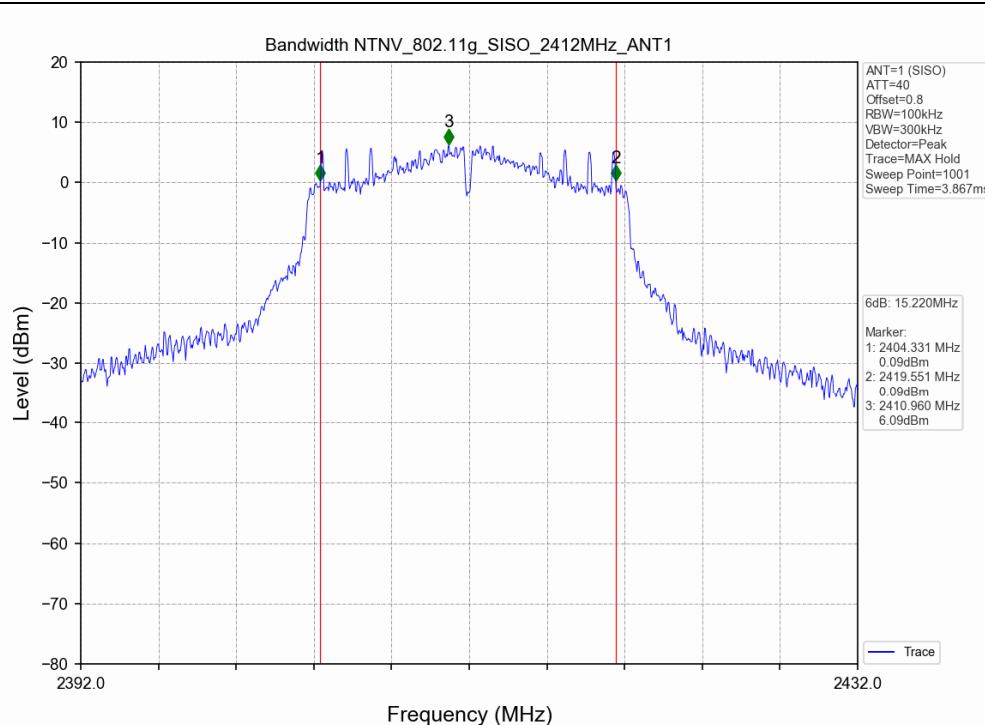
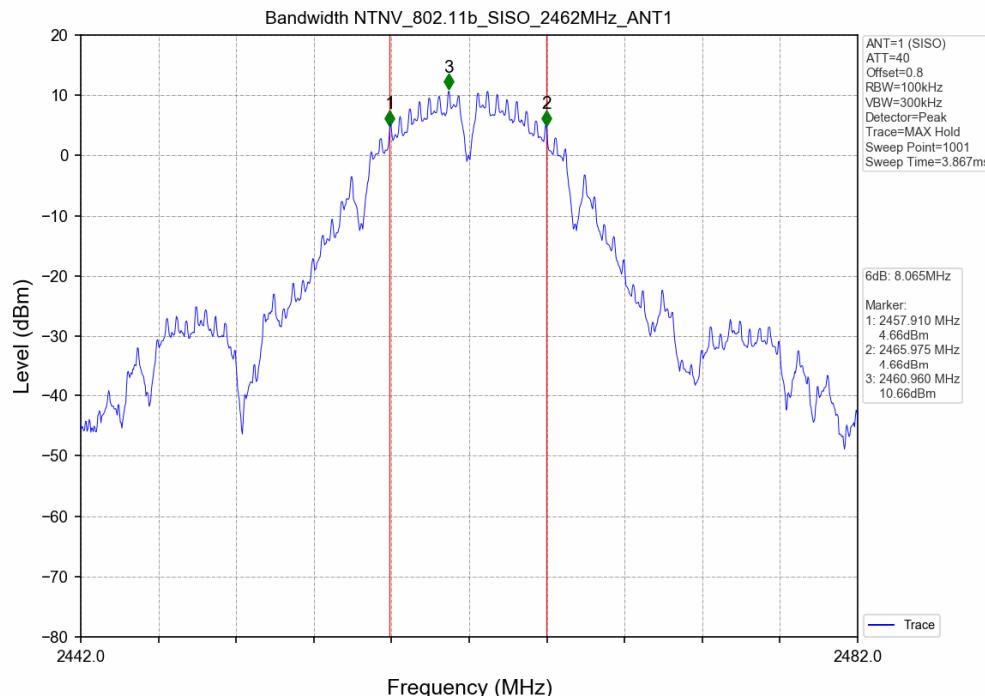
## 2.2 Test Graph - 6dB Bandwidth



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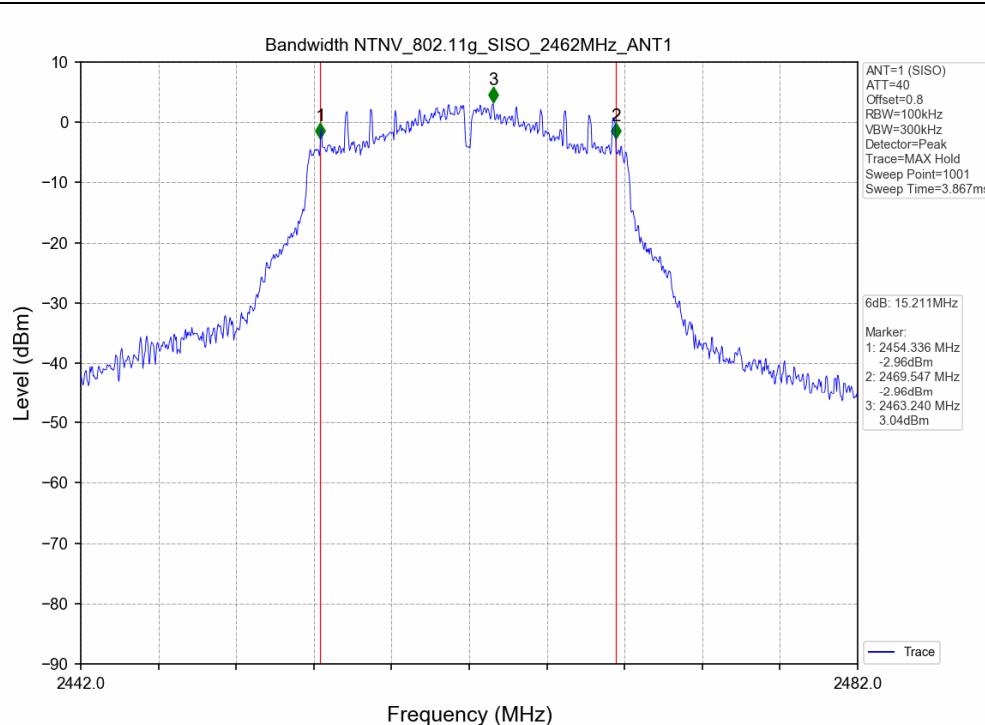
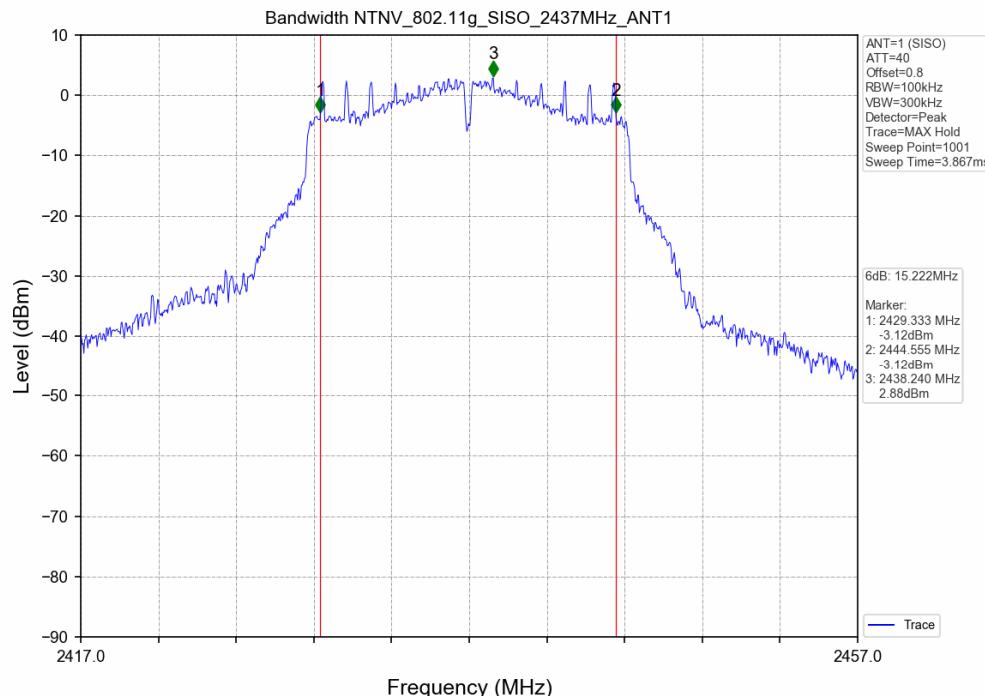


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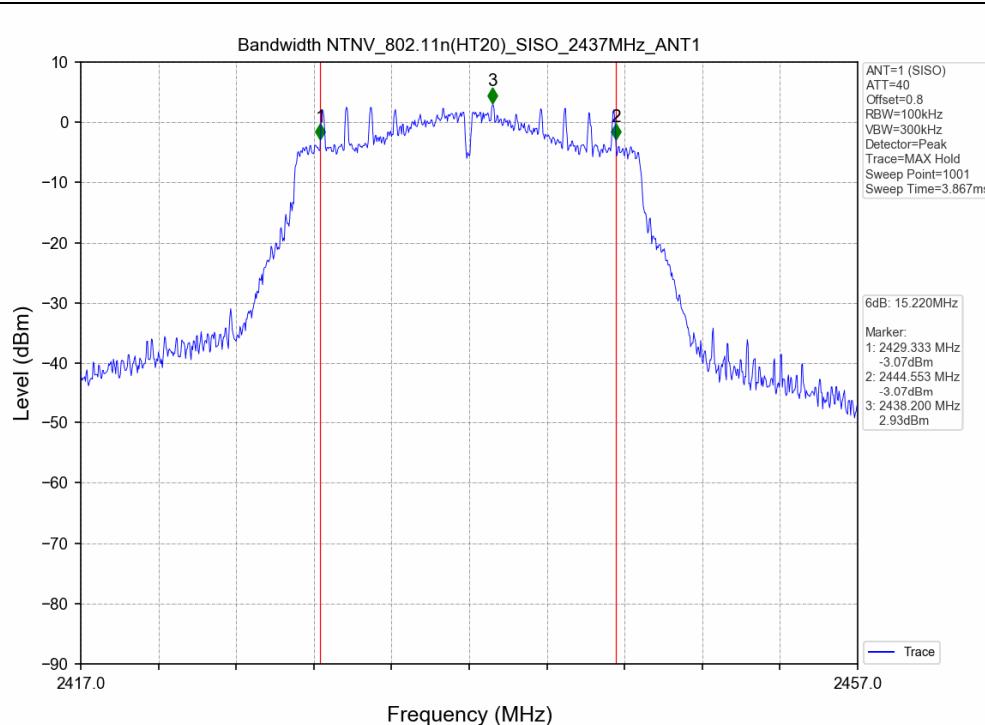
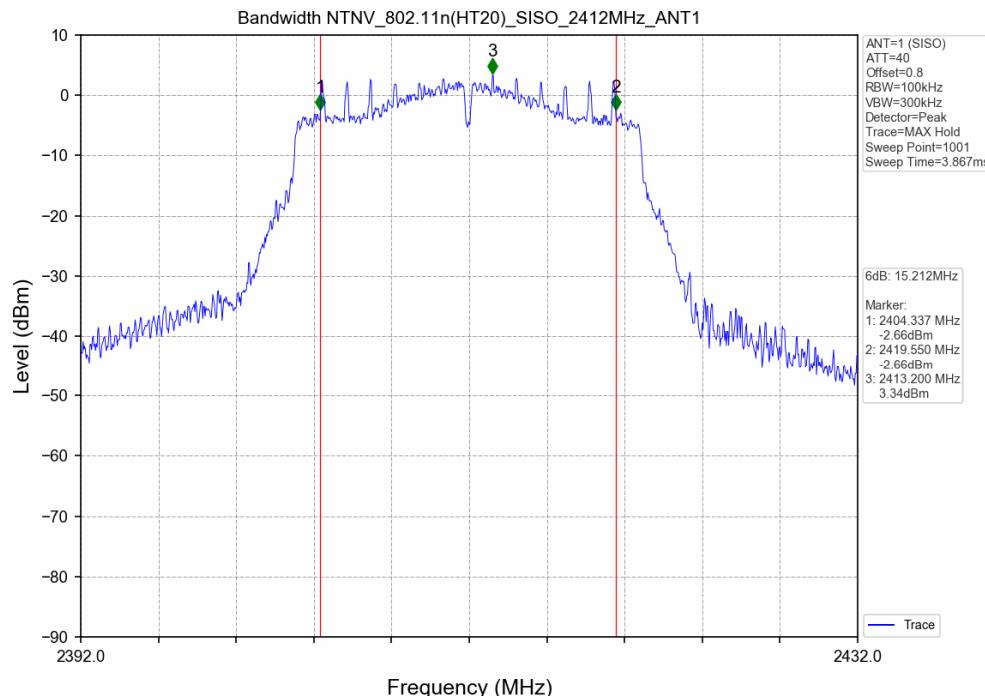
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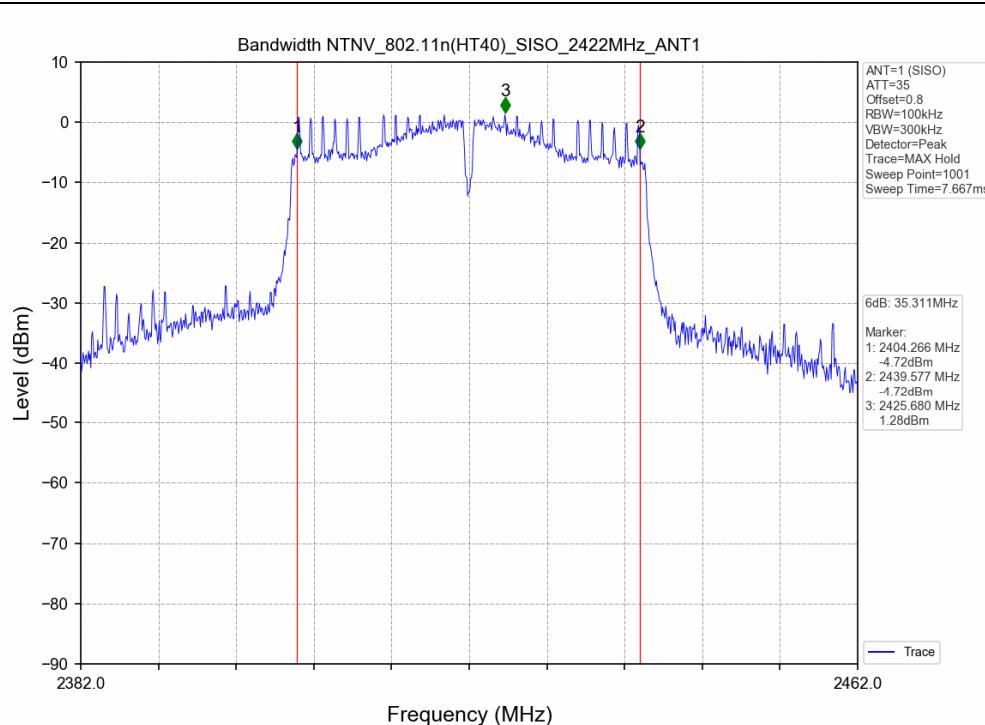
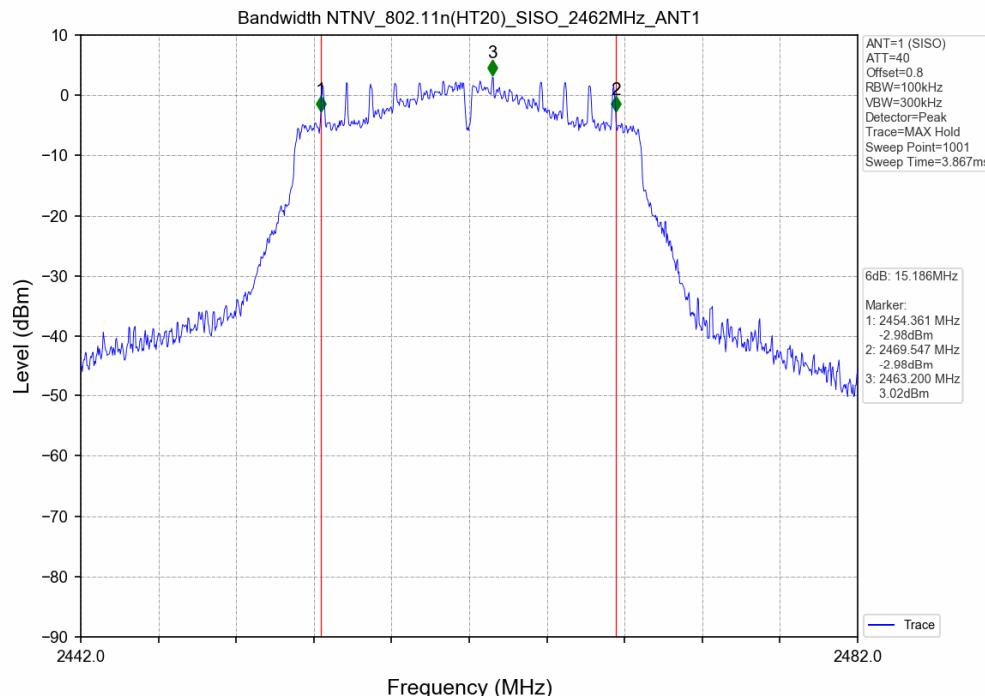
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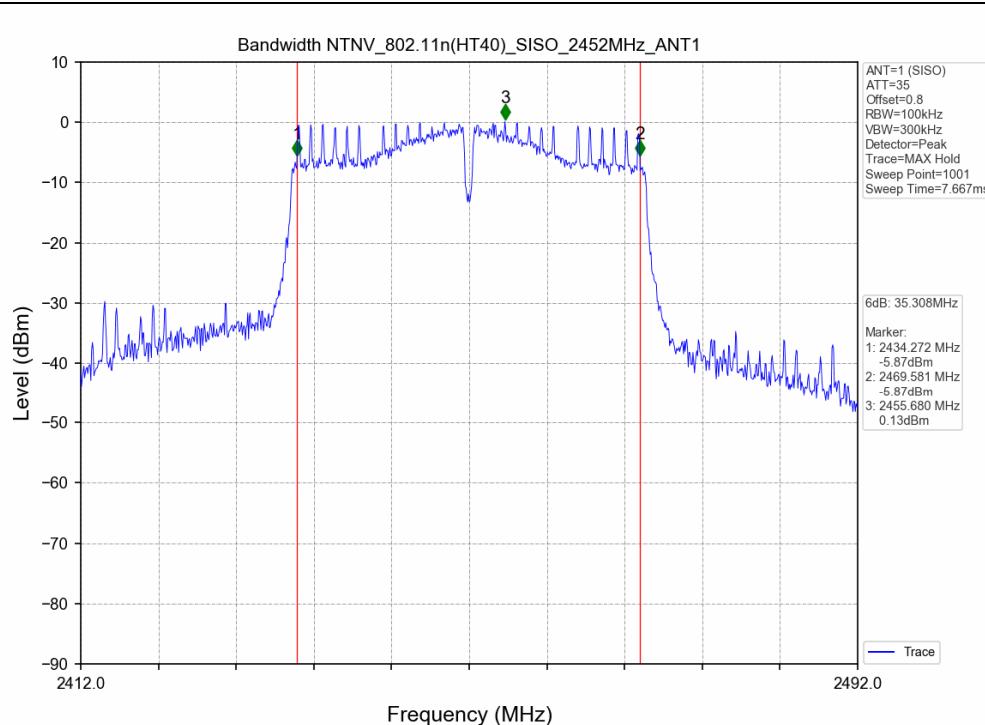
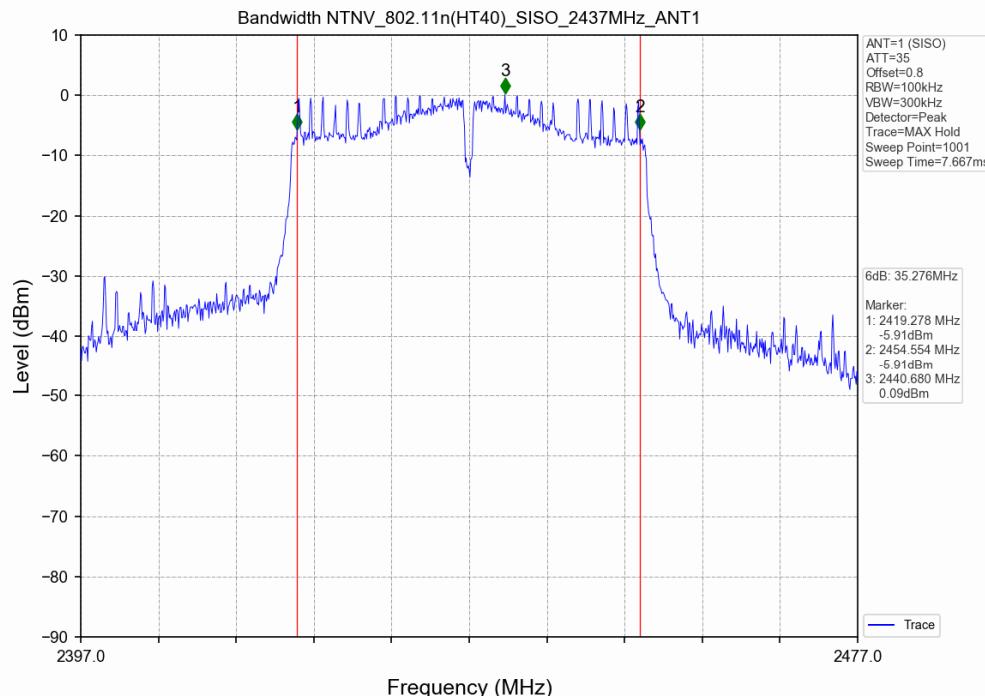


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**3. Maximum Conducted Output Power****3.1 Test Result**

Test Mode	Frequency (MHz)	Tx Type	Measured Average Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	18.19	30	PASS
	2437	SISO	18.10	30	PASS
	2462	SISO	17.95	30	PASS
802.11g	2412	SISO	14.26	30	PASS
	2437	SISO	13.90	30	PASS
	2462	SISO	13.99	30	PASS
802.11n(HT20)	2412	SISO	13.57	30	PASS
	2437	SISO	13.48	30	PASS
	2462	SISO	13.31	30	PASS
802.11n(HT40)	2422	SISO	13.95	30	PASS
	2437	SISO	13.95	30	PASS
	2452	SISO	13.93	30	PASS

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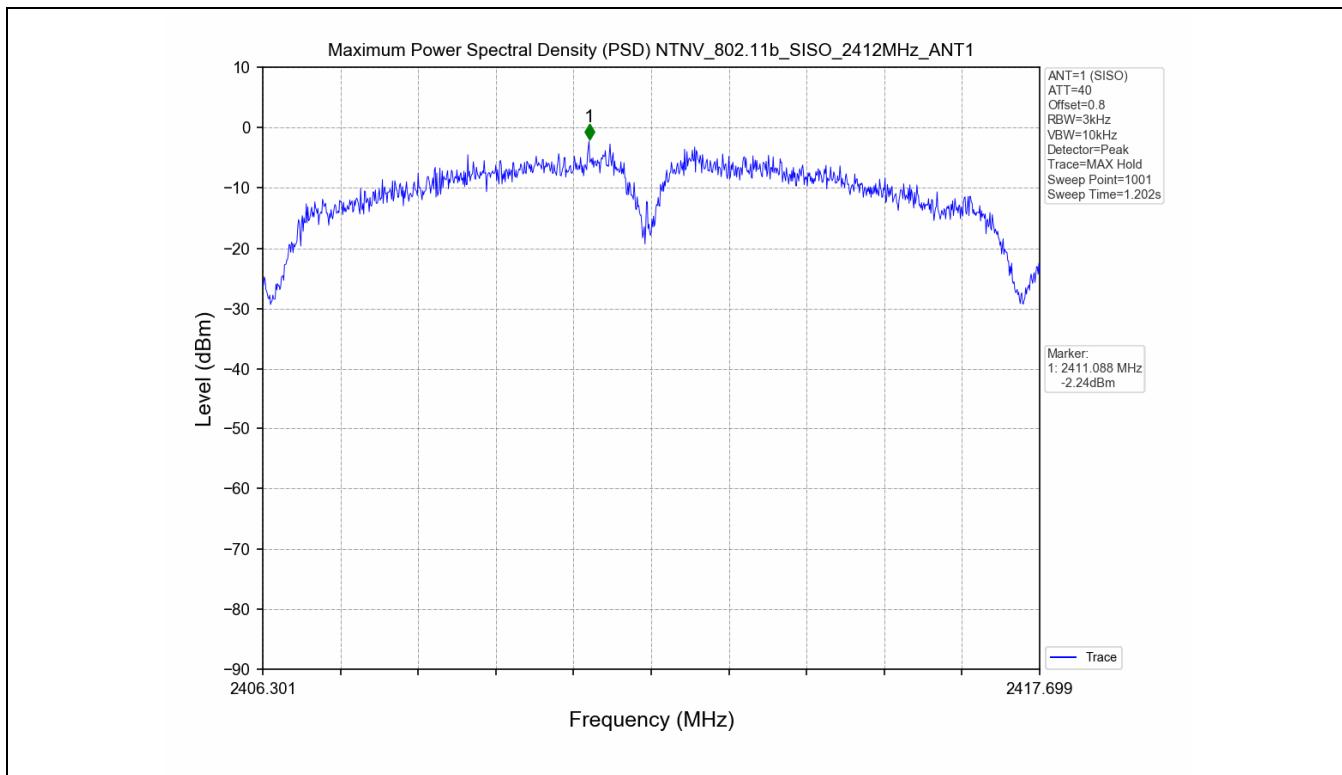


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**4. Maximum Power Spectral Density (PSD)****4.1 Test Result**

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-2.24	≤8	PASS
	2437	SISO	-3.95	≤8	PASS
	2462	SISO	-3.62	≤8	PASS
802.11g	2412	SISO	-7.99	≤8	PASS
	2437	SISO	-8.37	≤8	PASS
	2462	SISO	-8.58	≤8	PASS
802.11n(HT20)	2412	SISO	-8.79	≤8	PASS
	2437	SISO	-9.40	≤8	PASS
	2462	SISO	-8.65	≤8	PASS
802.11n(HT40)	2422	SISO	-11.37	≤8	PASS
	2437	SISO	-12.22	≤8	PASS
	2452	SISO	-11.49	≤8	PASS

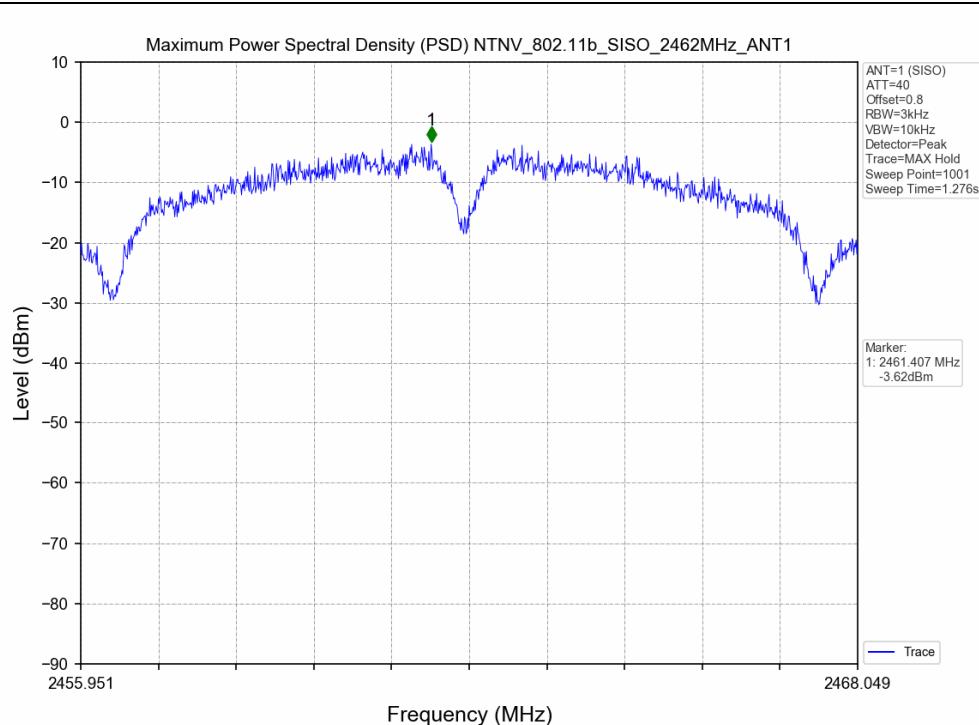
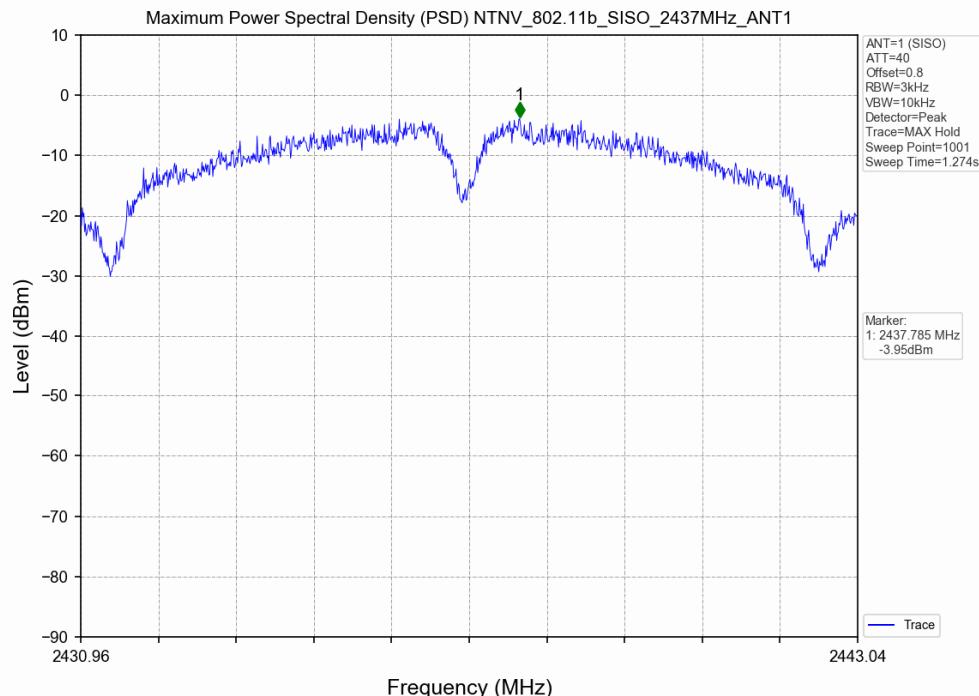
**4.2 Test Graph**

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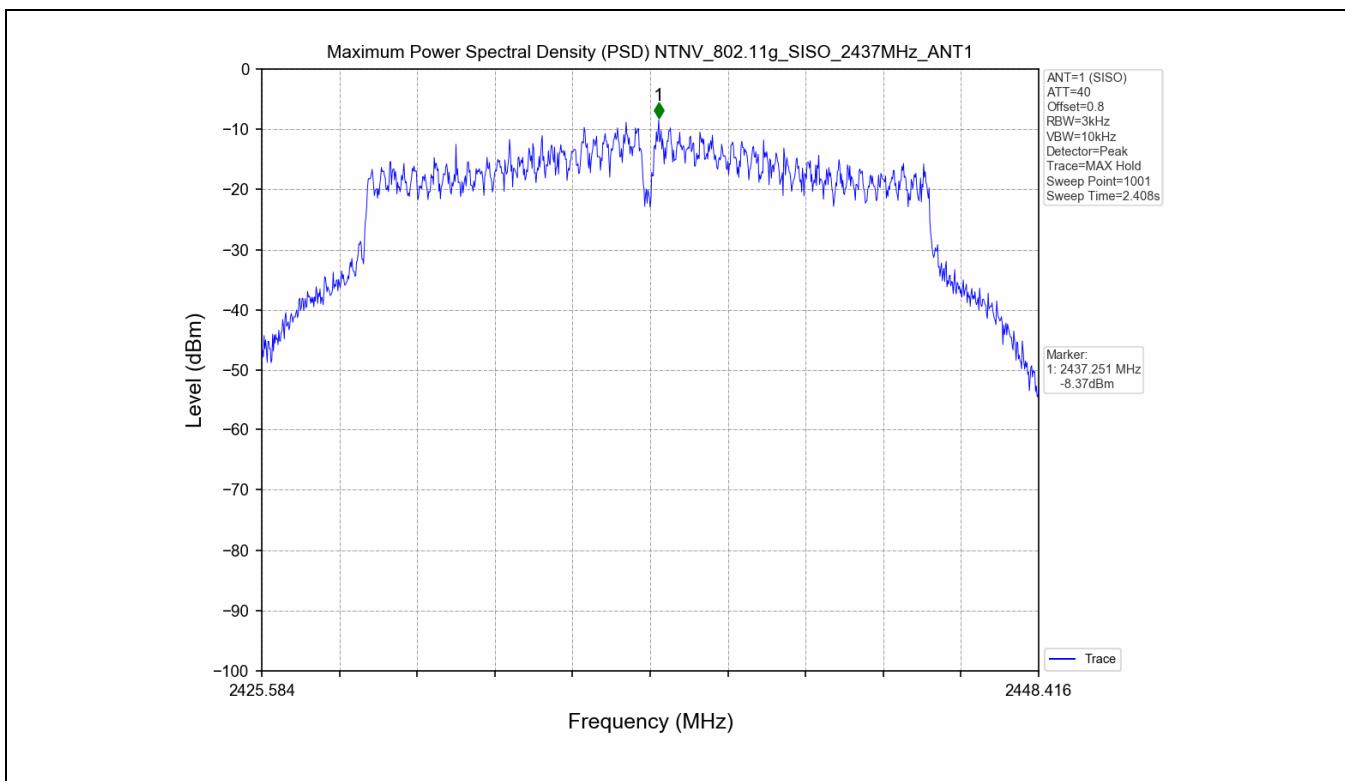
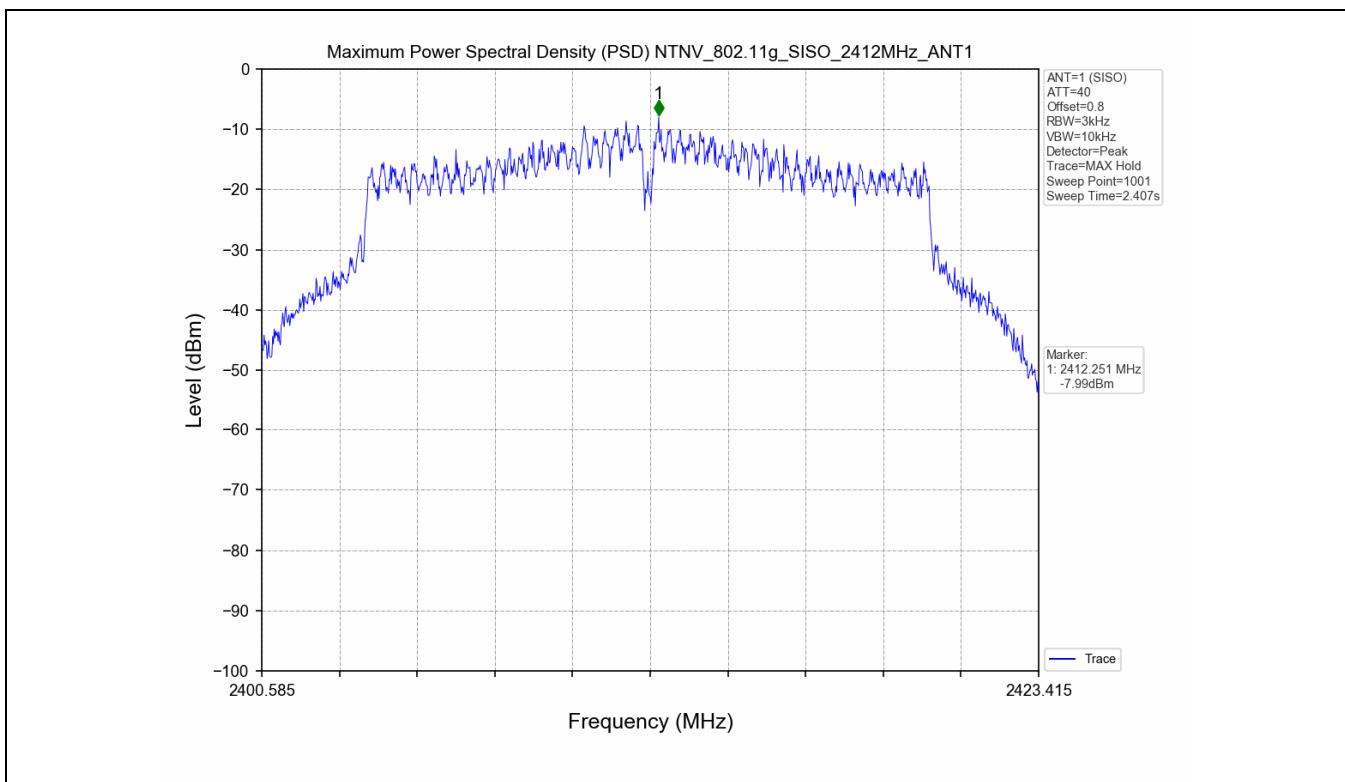


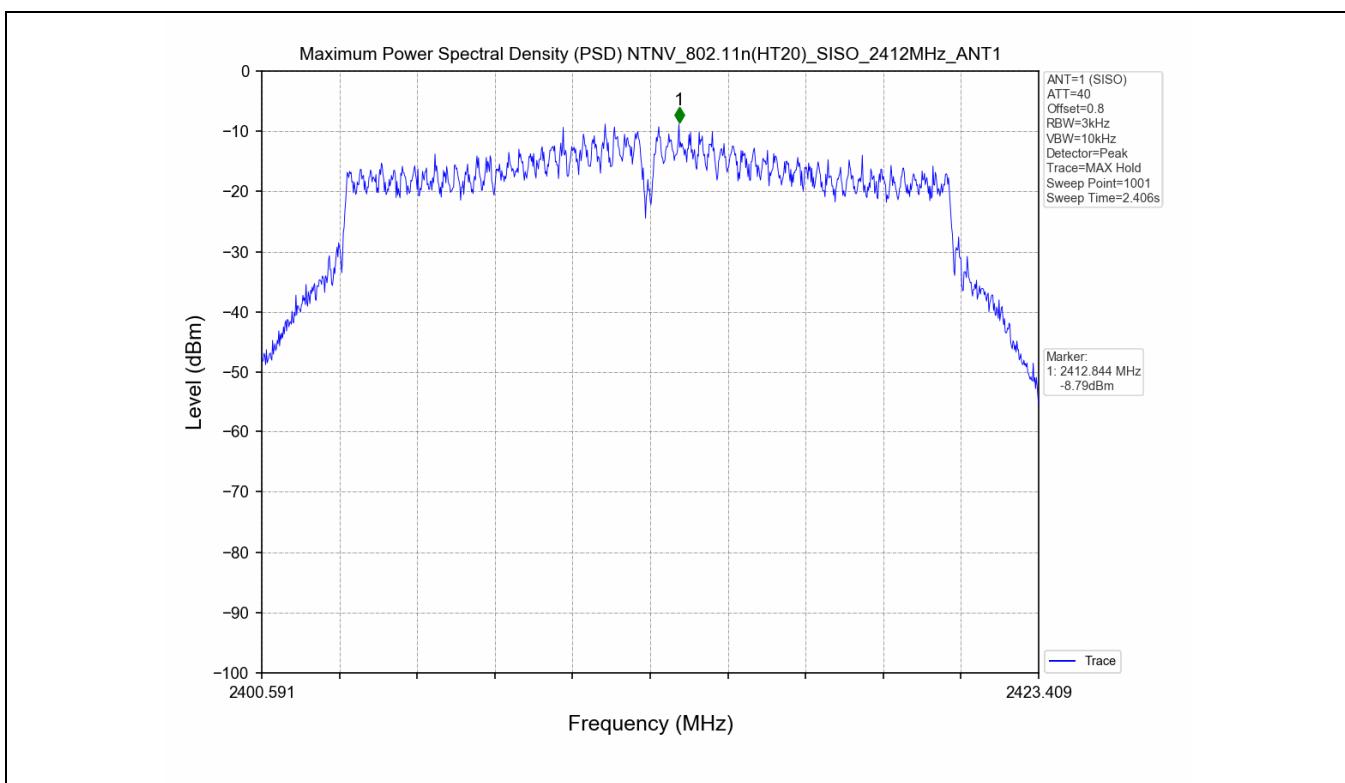
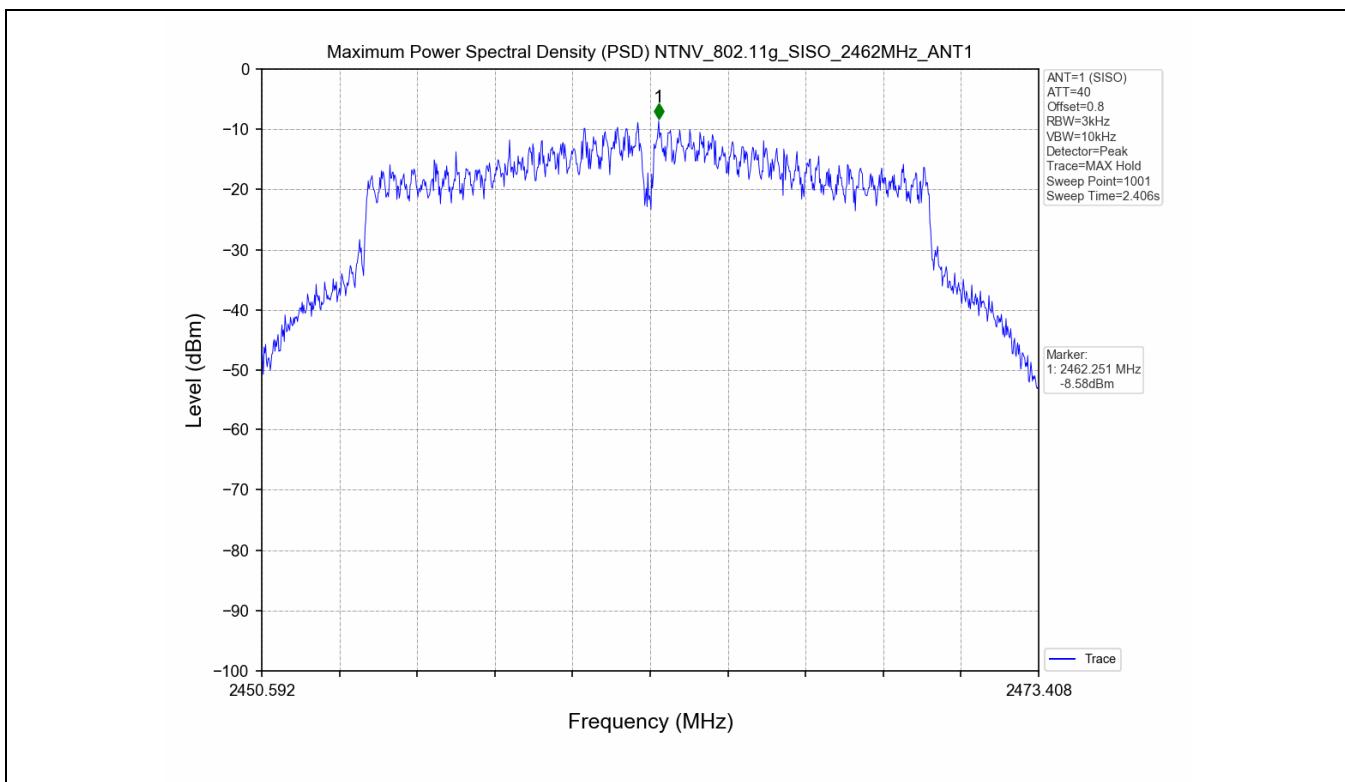
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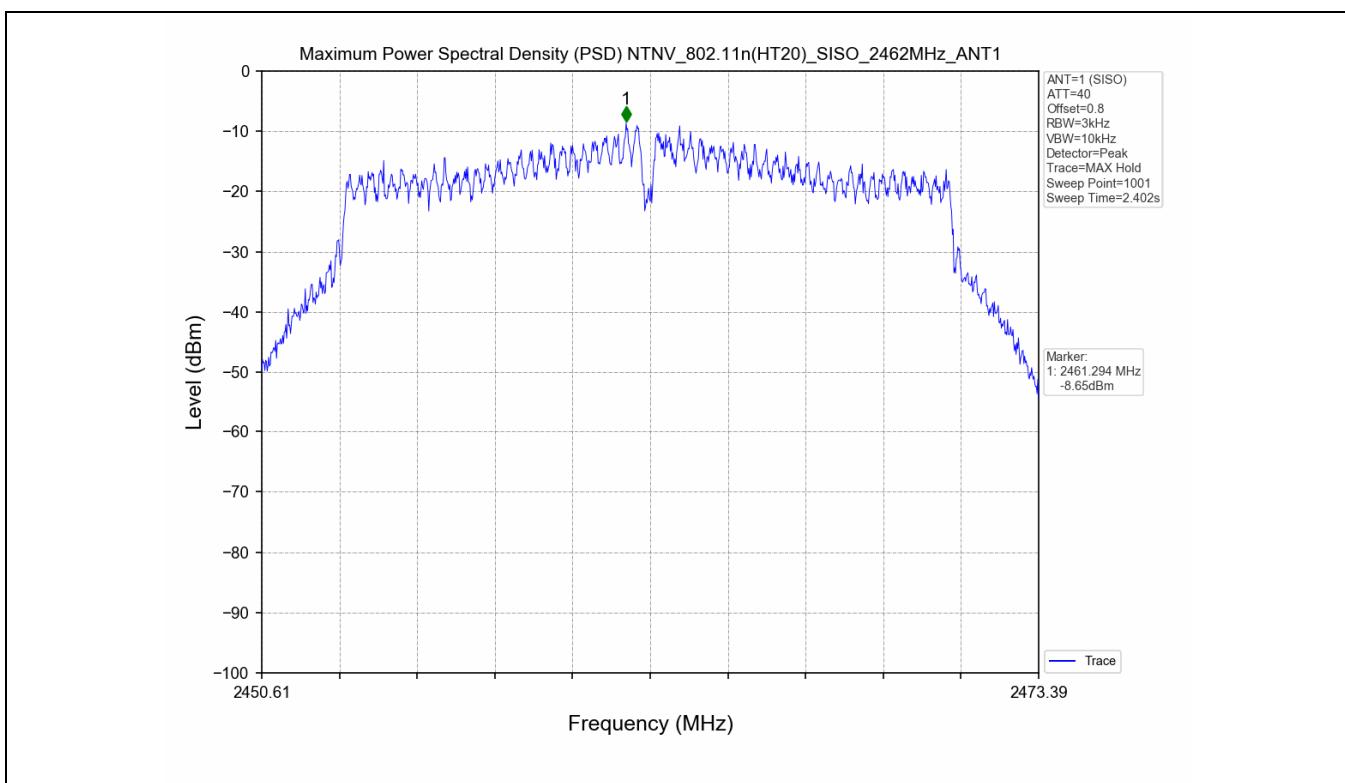
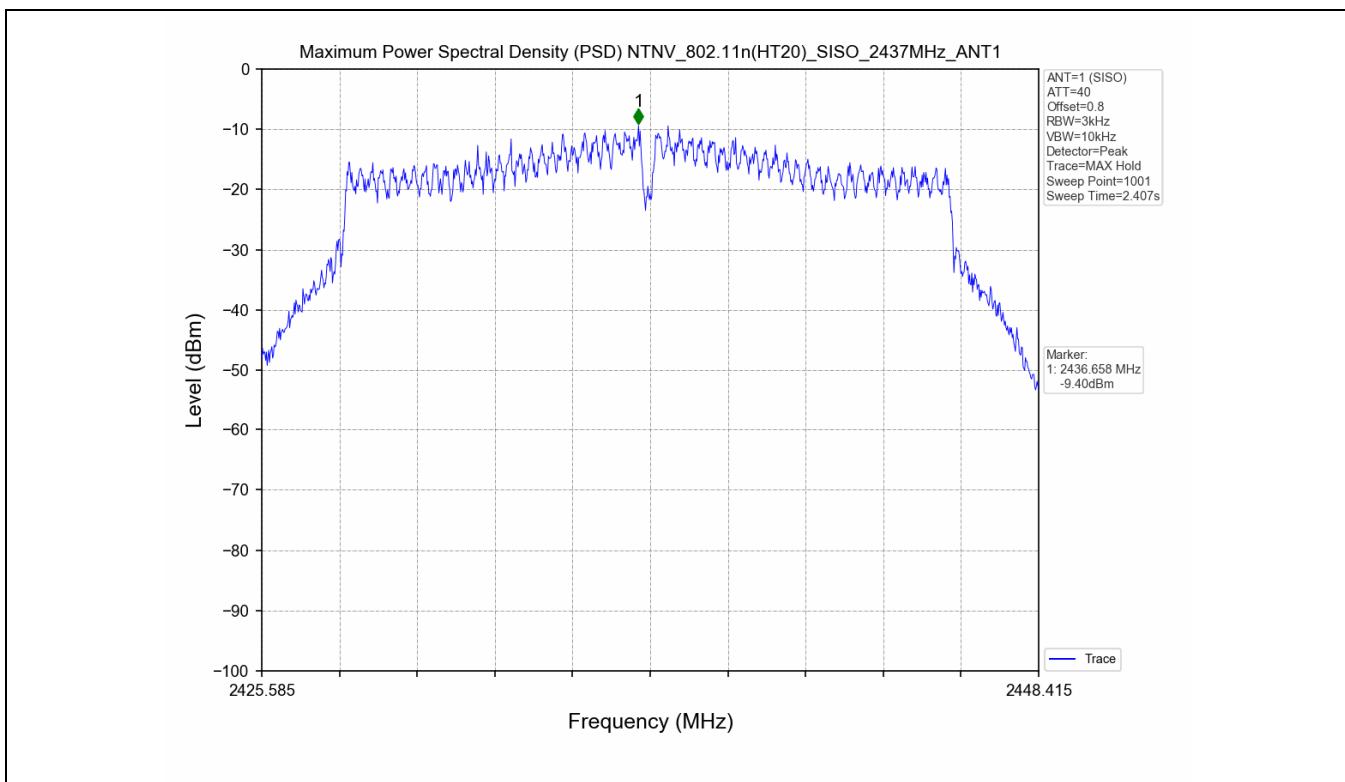


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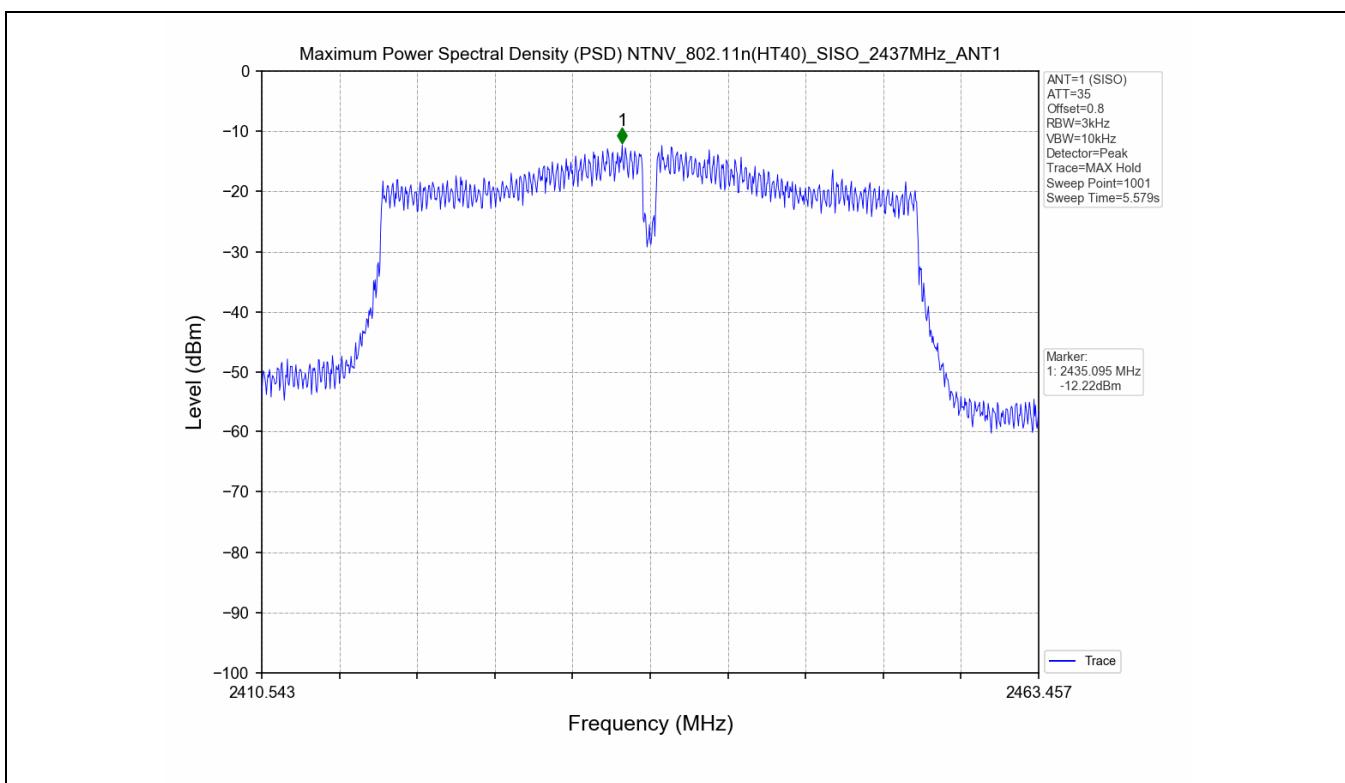
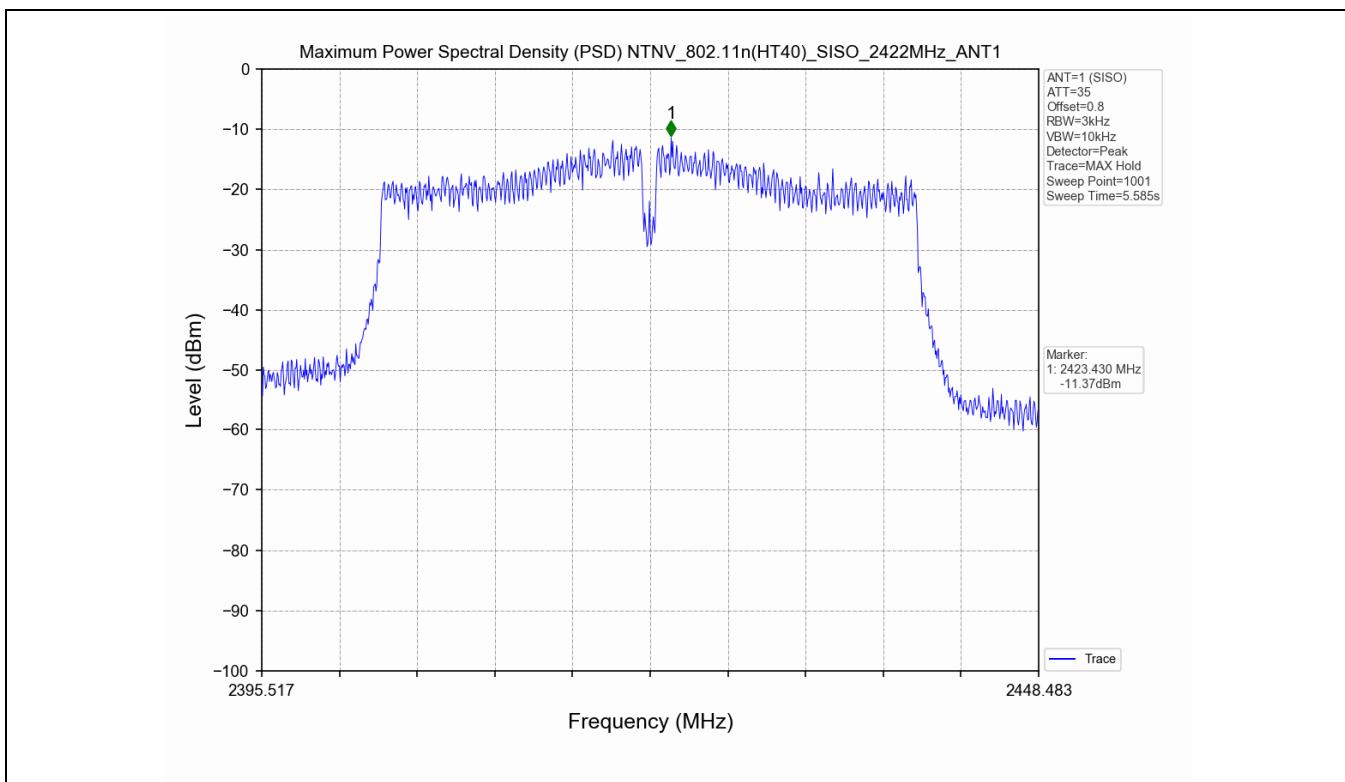


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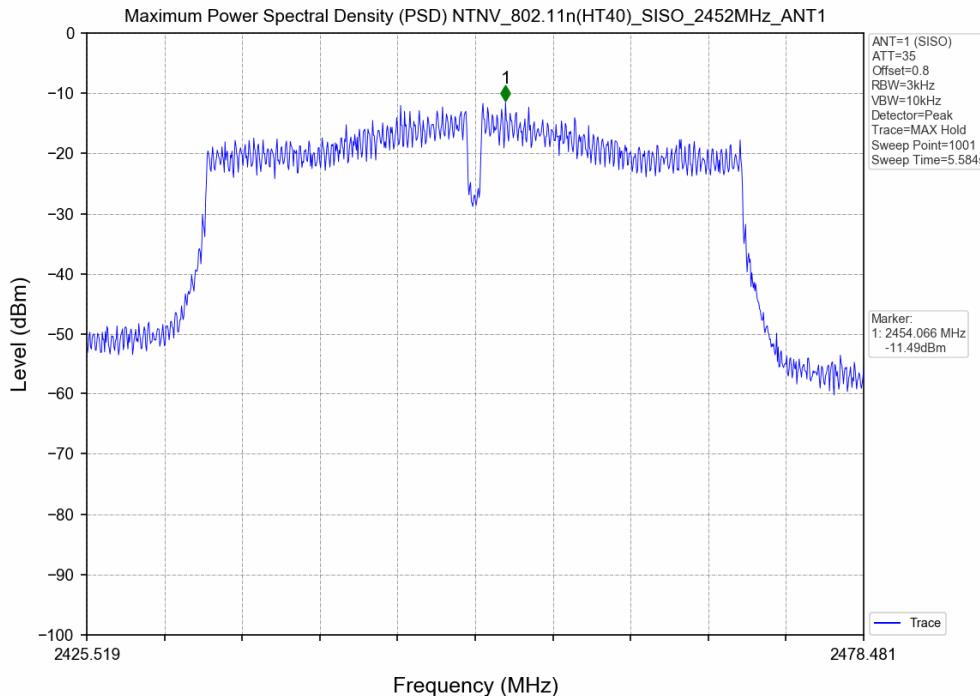
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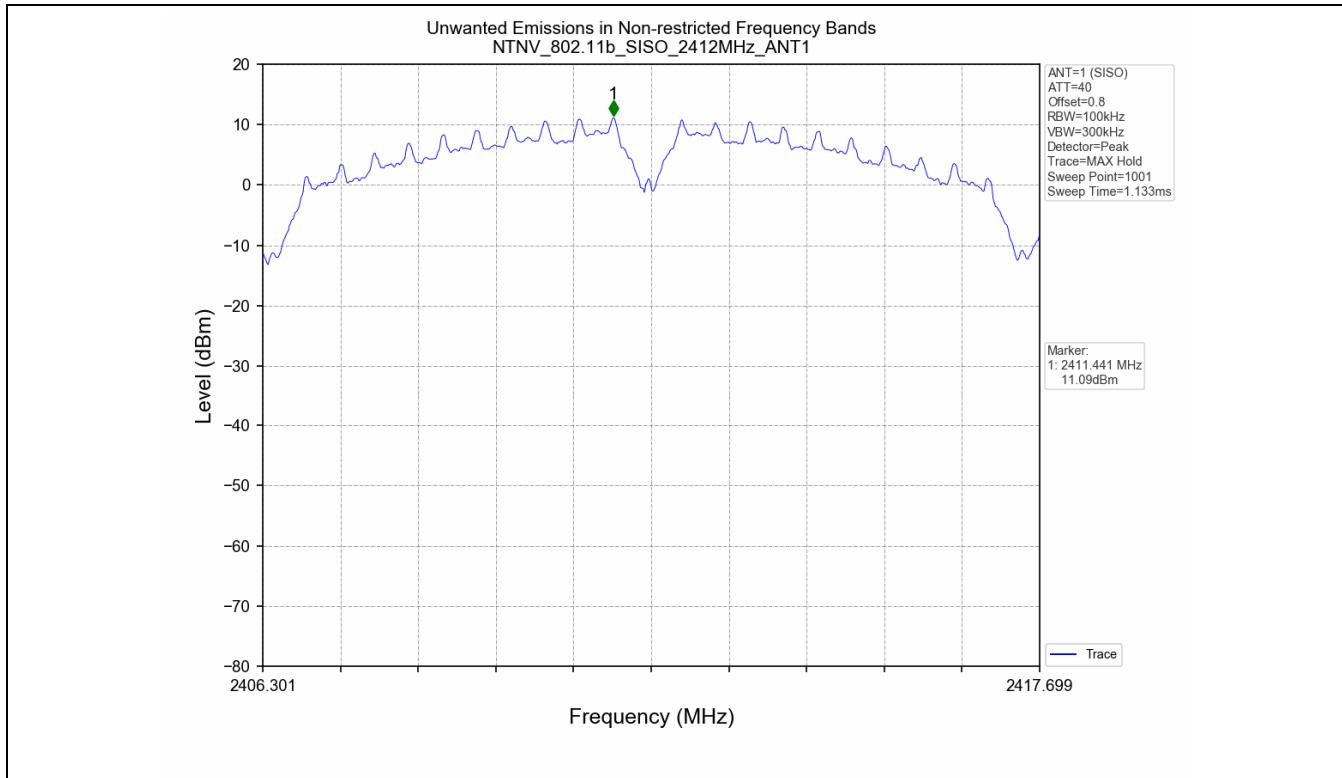
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**5. Unwanted Emissions in Non-restricted Frequency Bands****5.1 Test Result**

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-18.91	PASS
	2437	SISO	1	Refer to test graph	-18.91	PASS
	2462	SISO	1	Refer to test graph	-18.91	PASS
802.11g	2412	SISO	1	Refer to test graph	-26.72	PASS
	2437	SISO	1	Refer to test graph	-26.72	PASS
	2462	SISO	1	Refer to test graph	-26.72	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-26.73	PASS
	2437	SISO	1	Refer to test graph	-26.73	PASS
	2462	SISO	1	Refer to test graph	-26.73	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-29.74	PASS
	2437	SISO	1	Refer to test graph	-29.74	PASS
	2452	SISO	1	Refer to test graph	-29.74	PASS

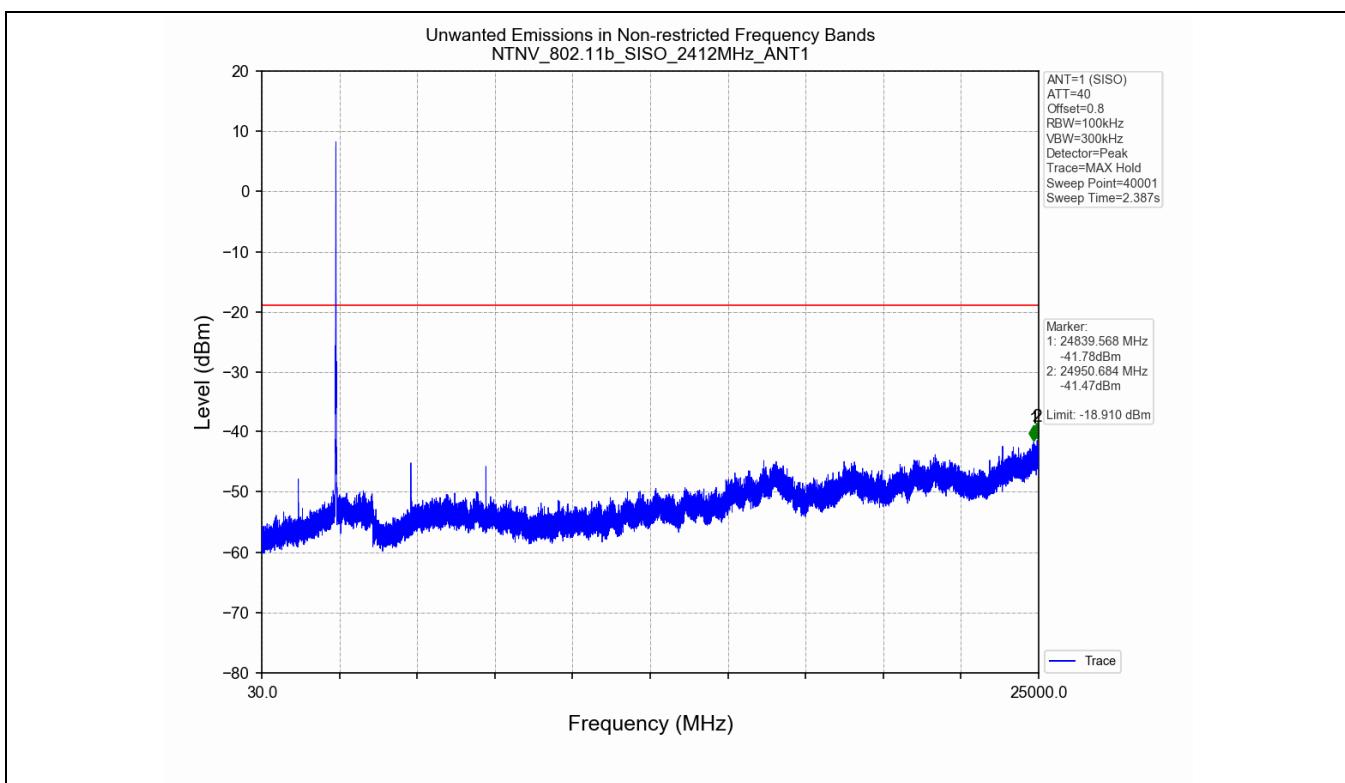
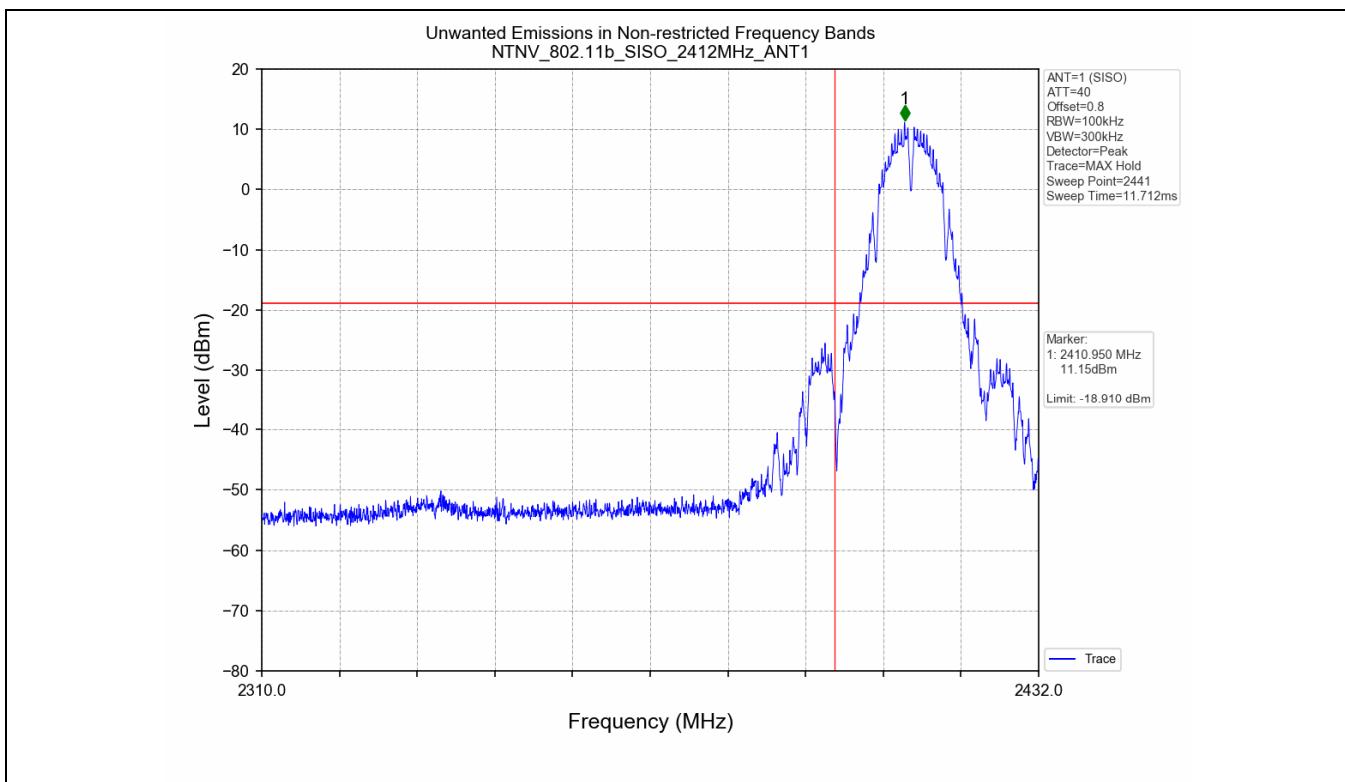
**5.2 Test Graph**

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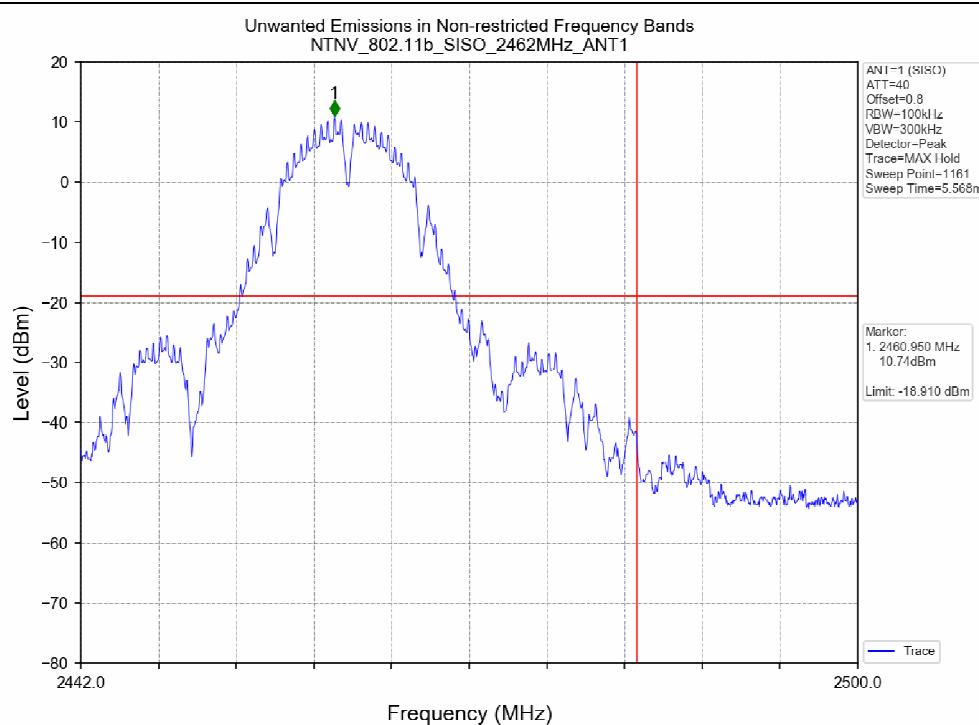
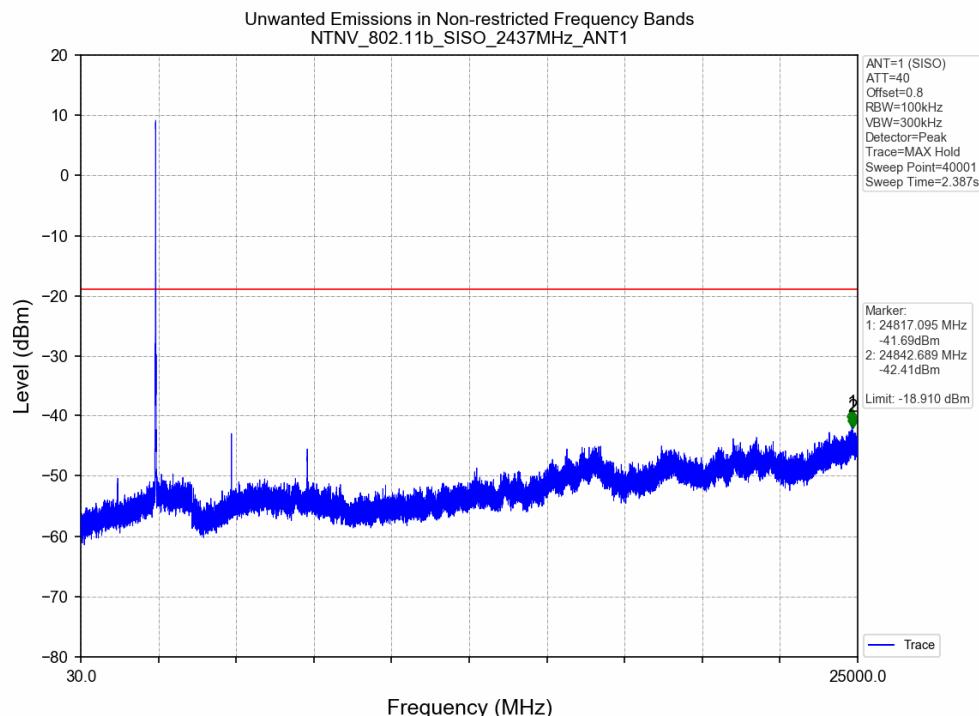


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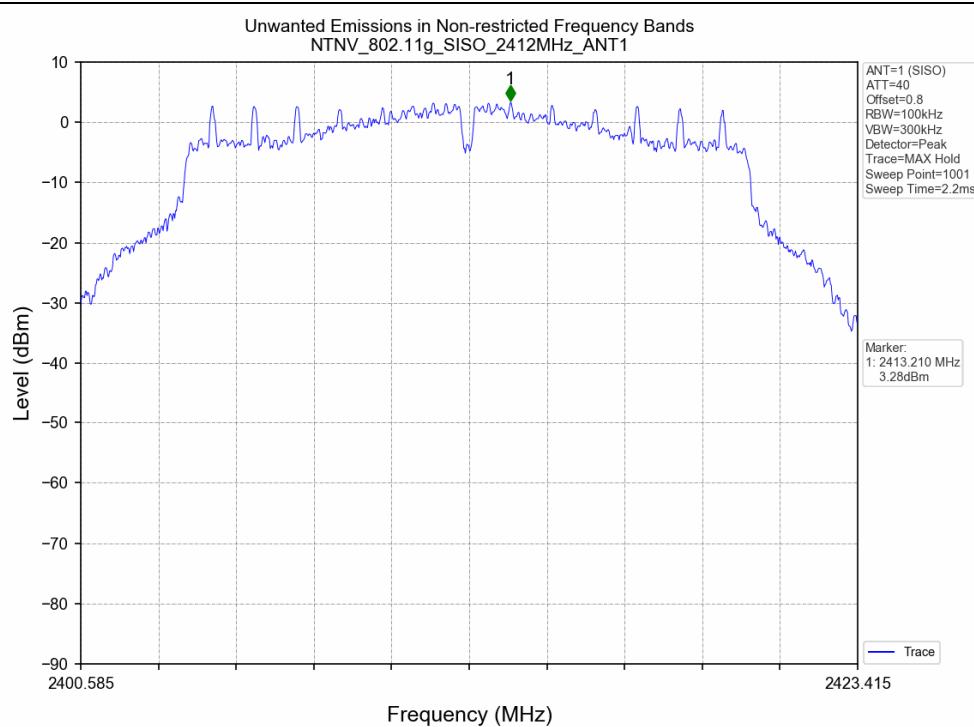
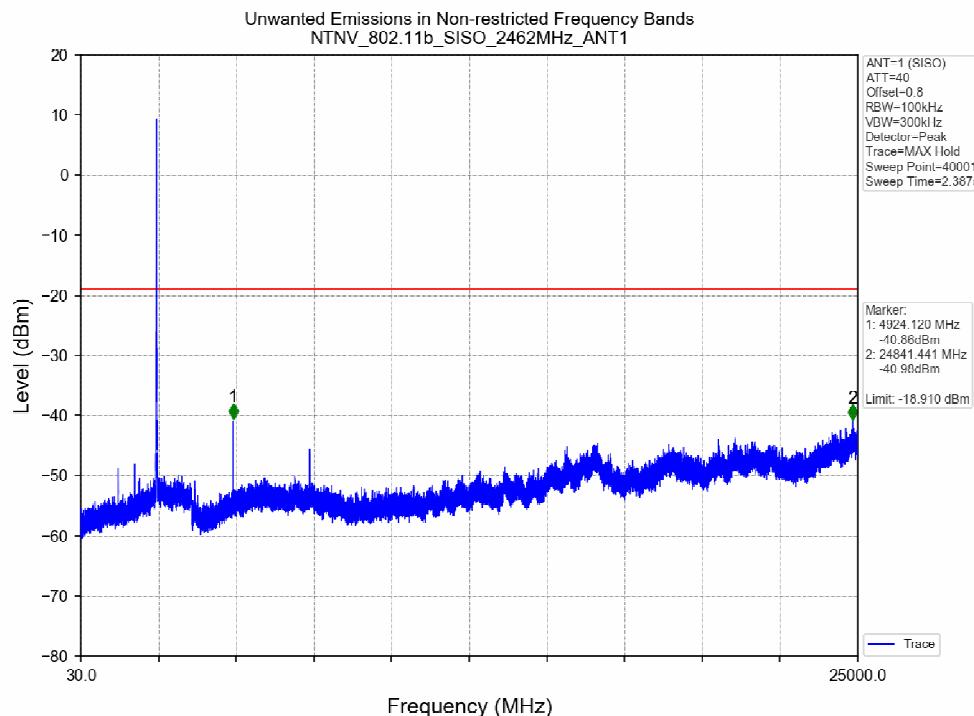


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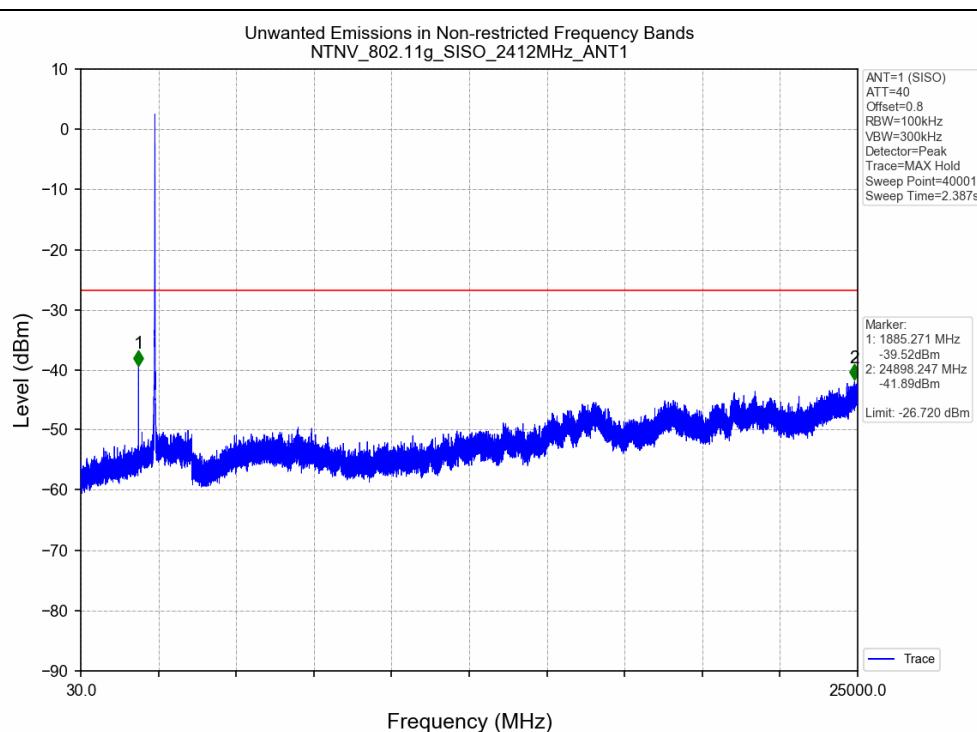
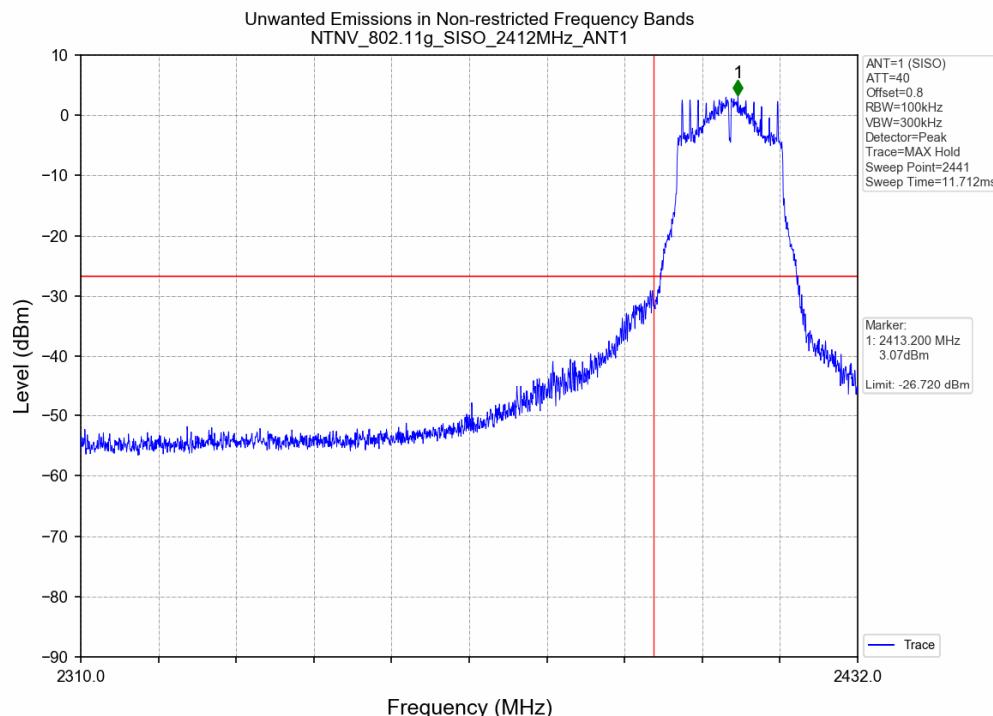
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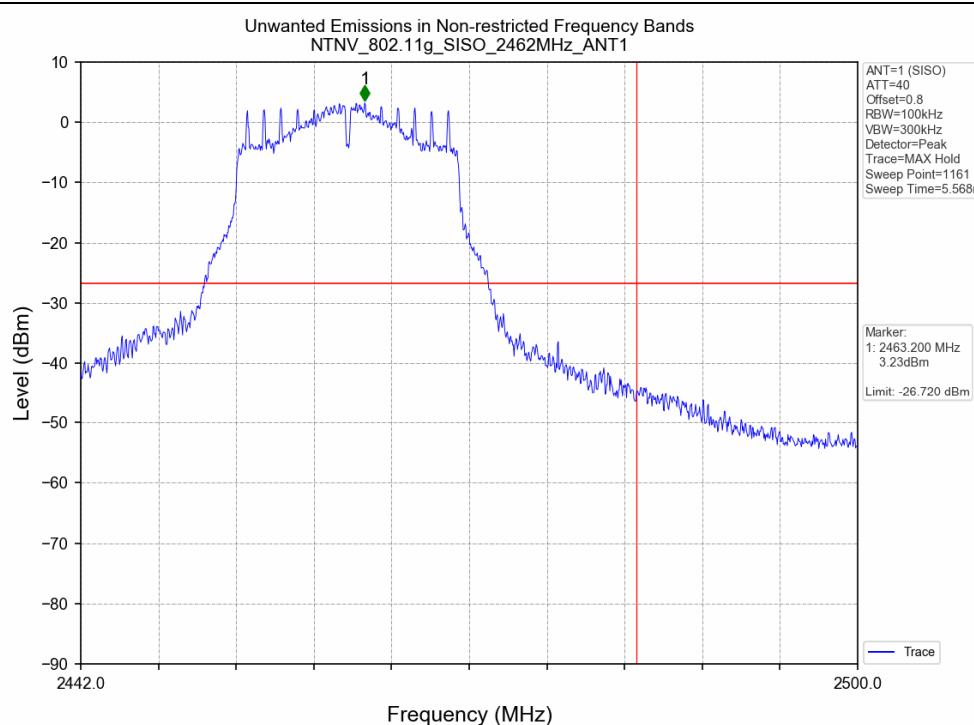
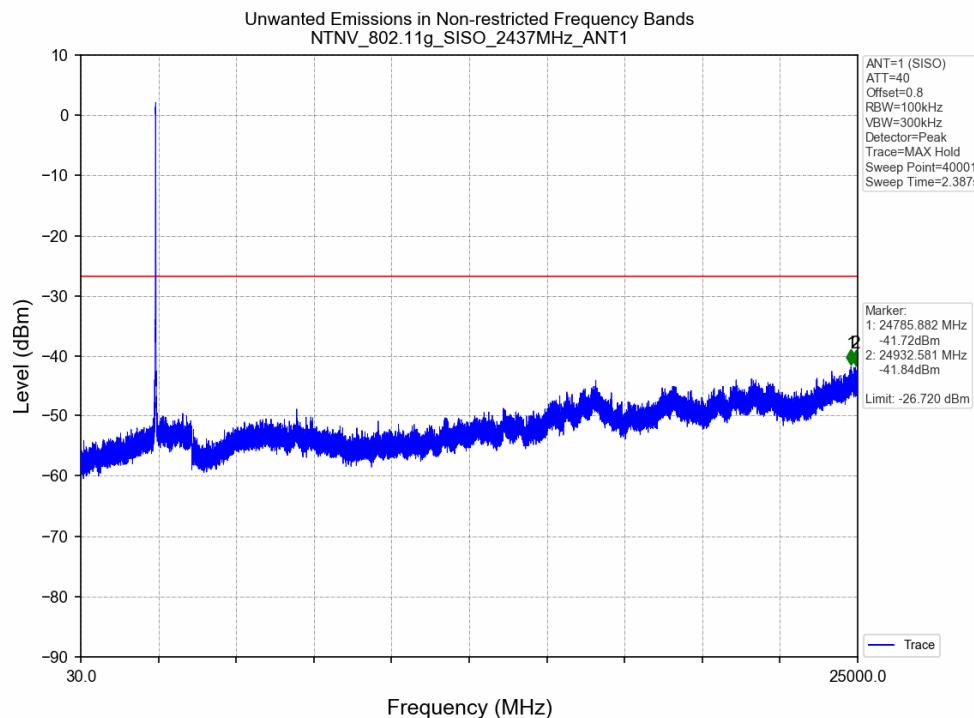


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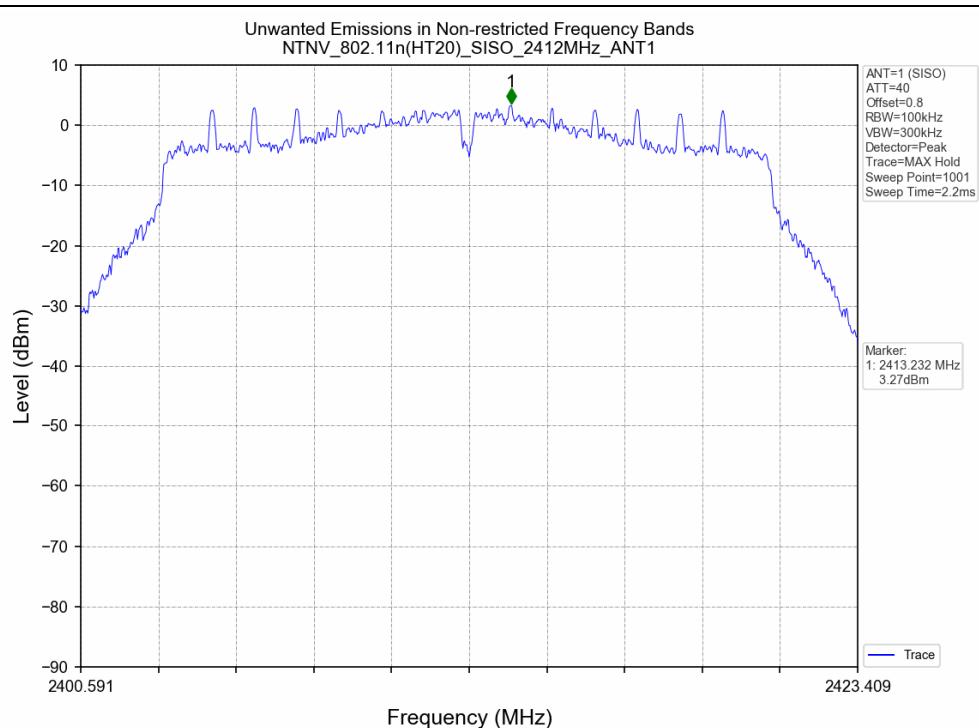
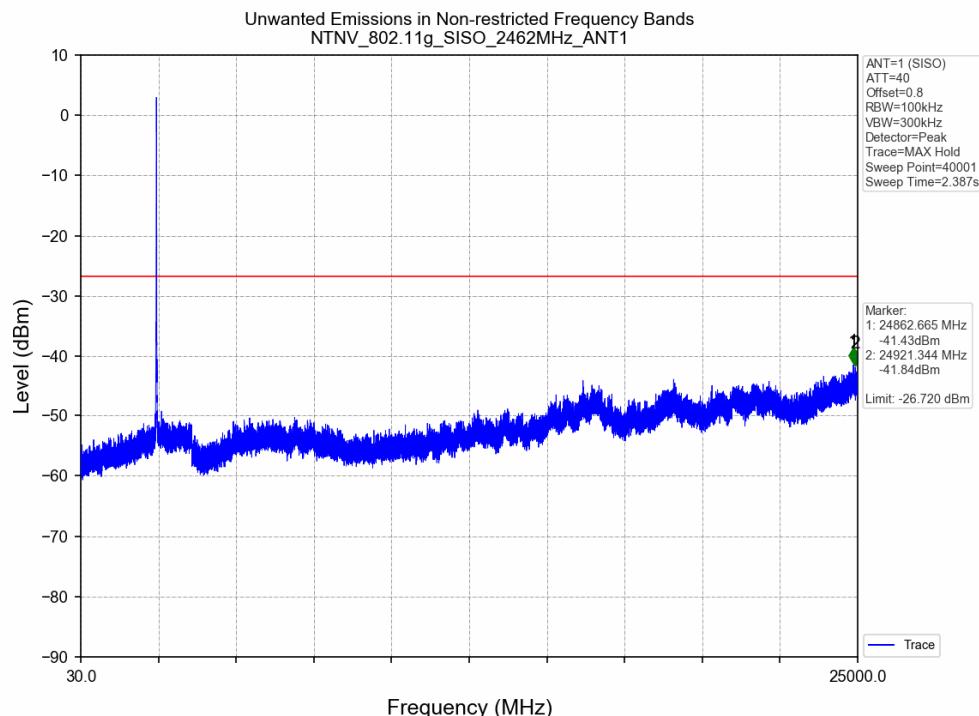


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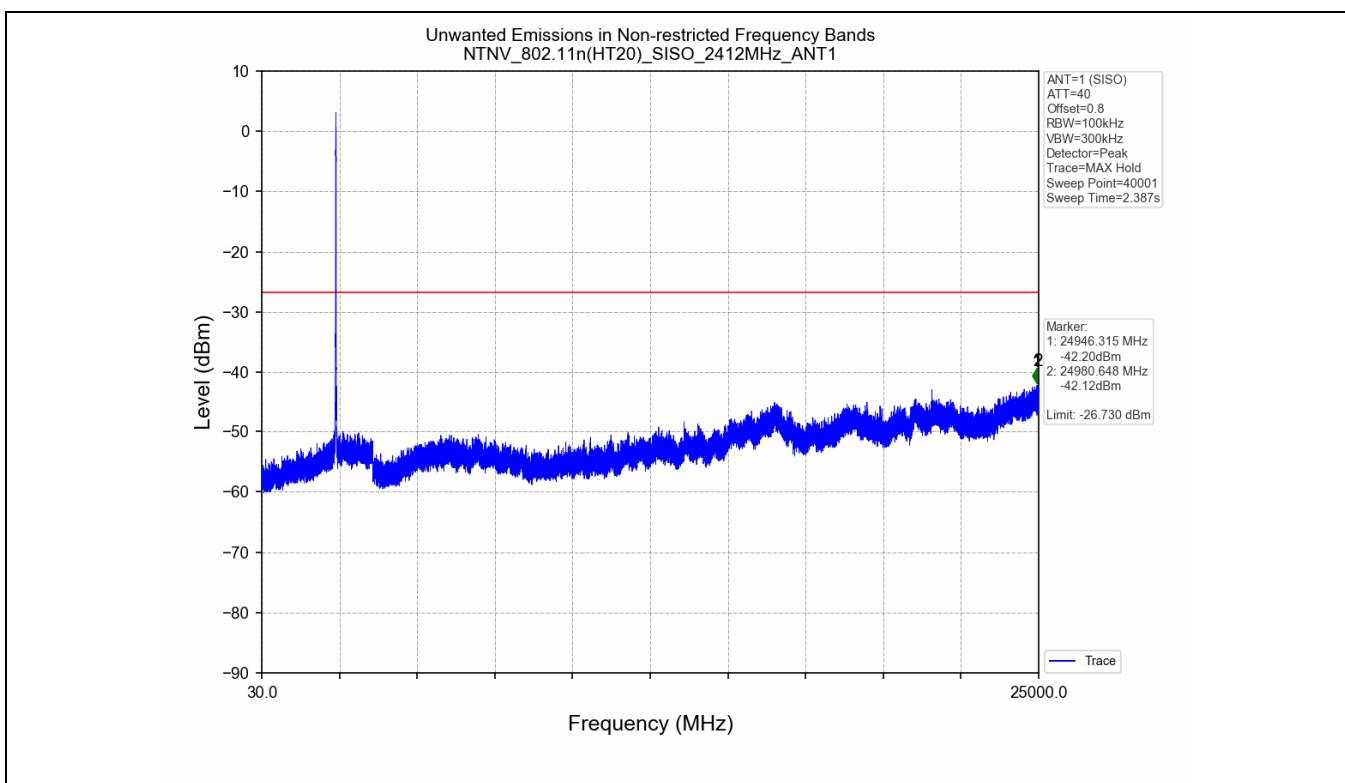
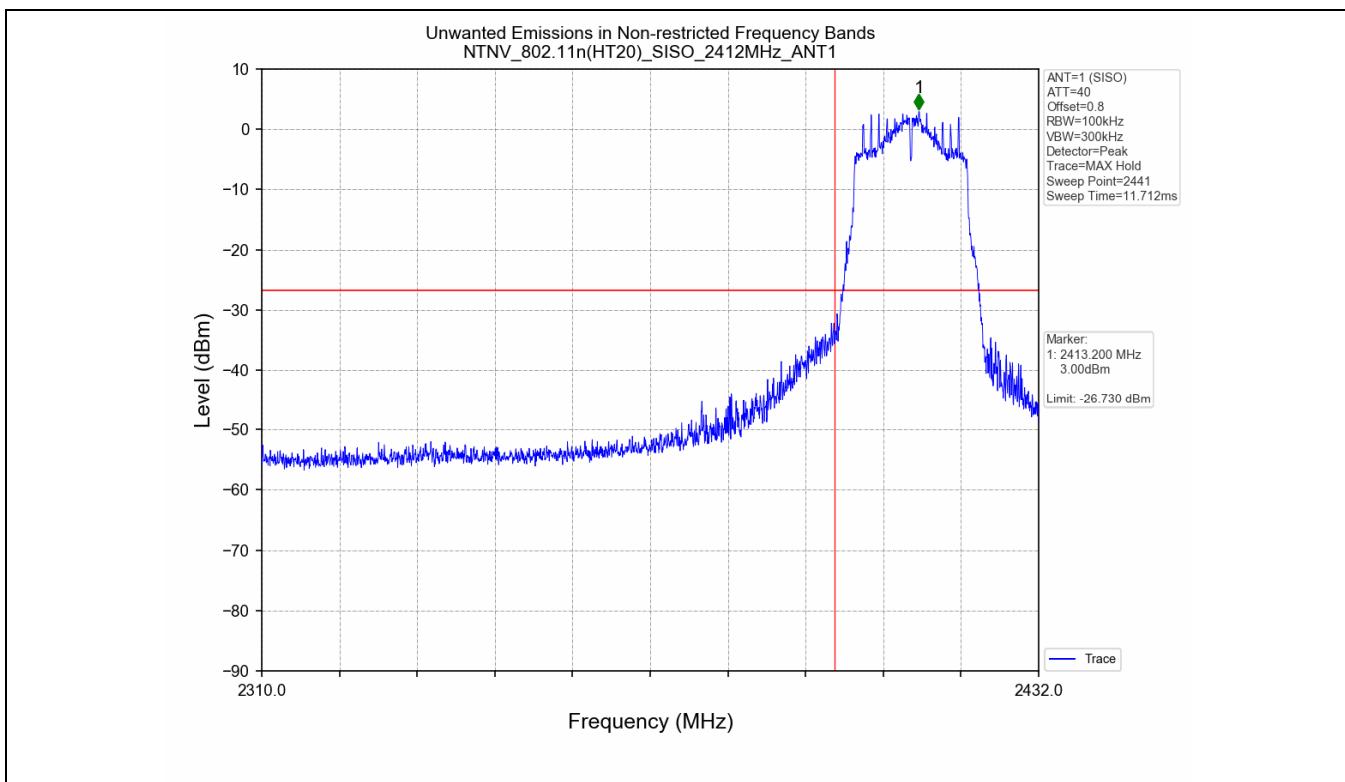


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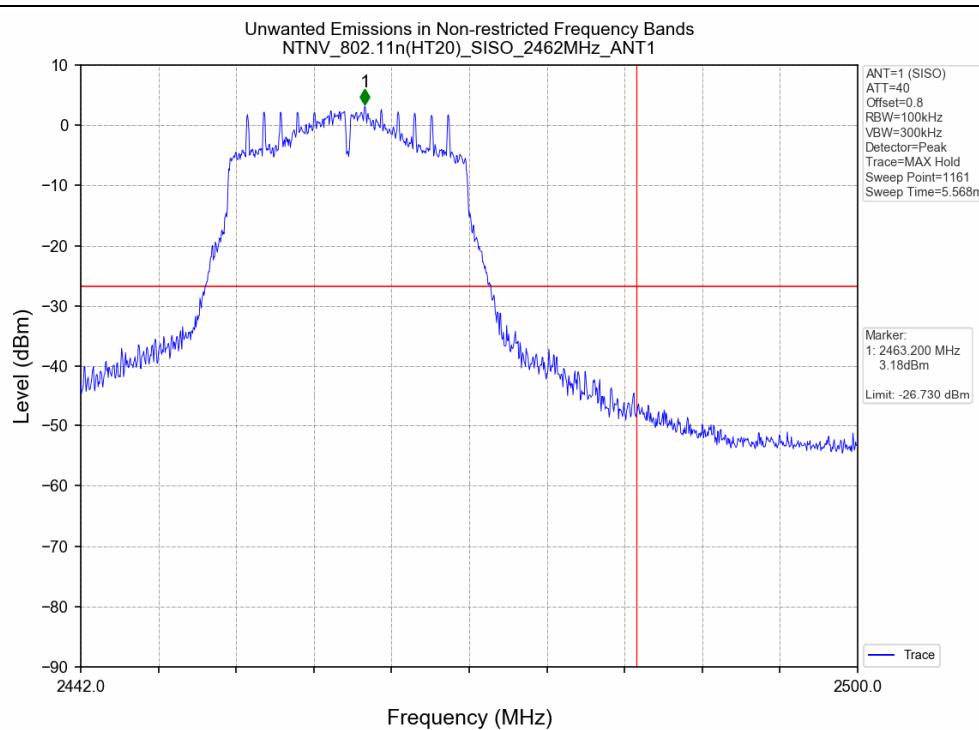
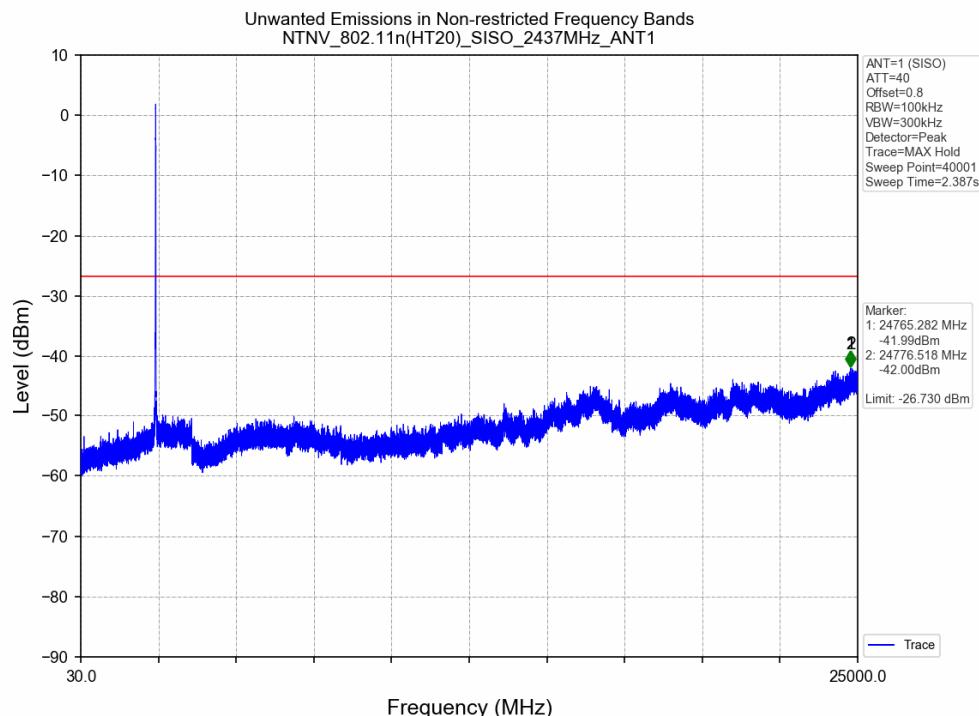


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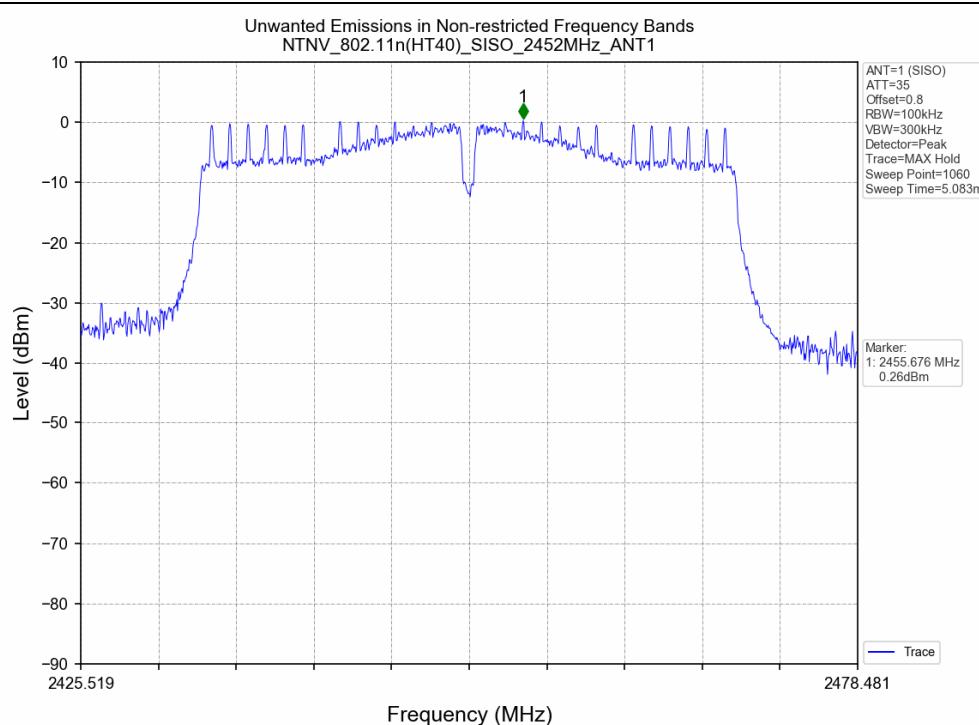
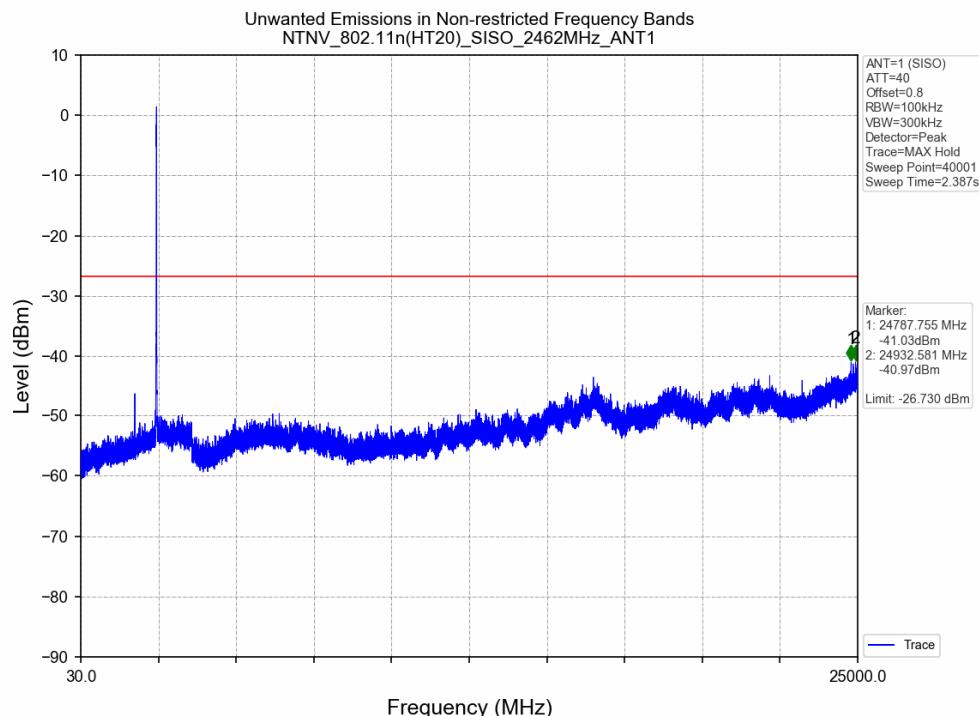


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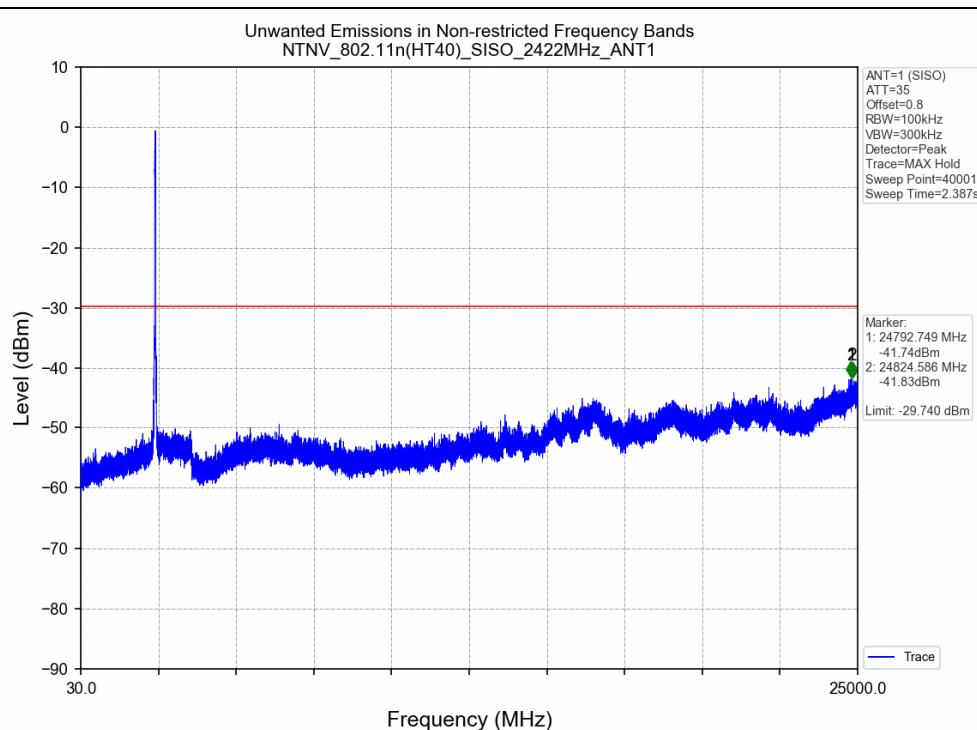
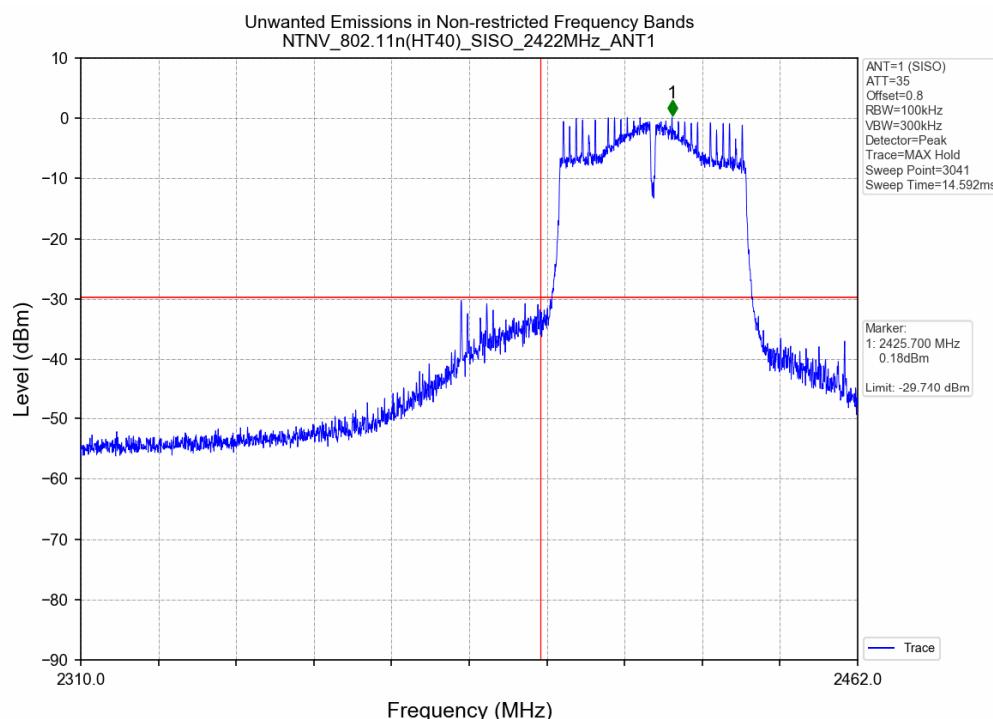


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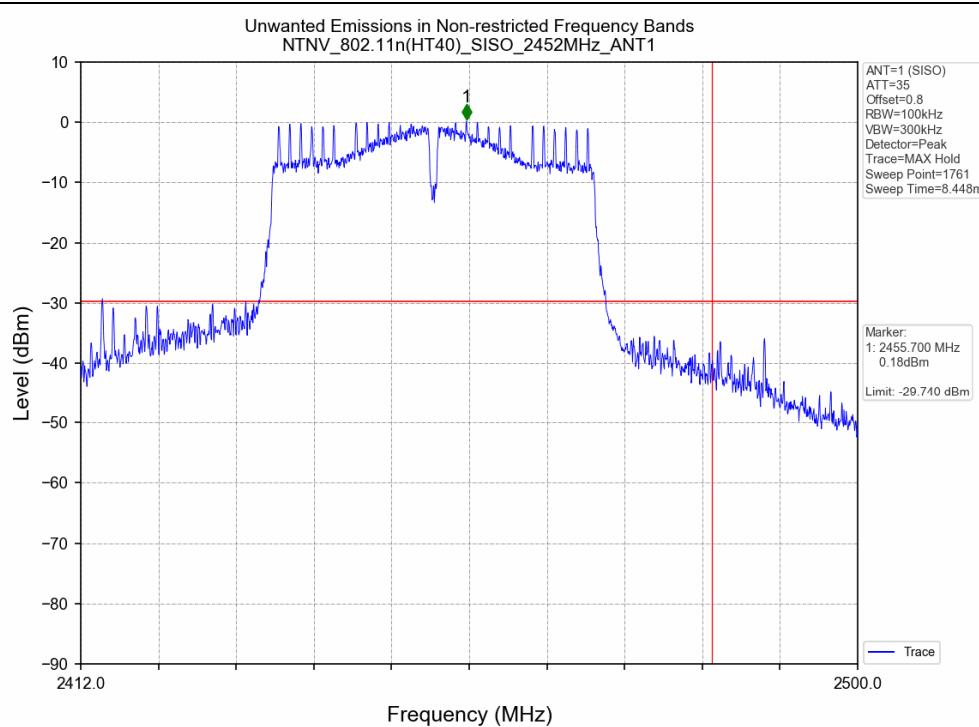
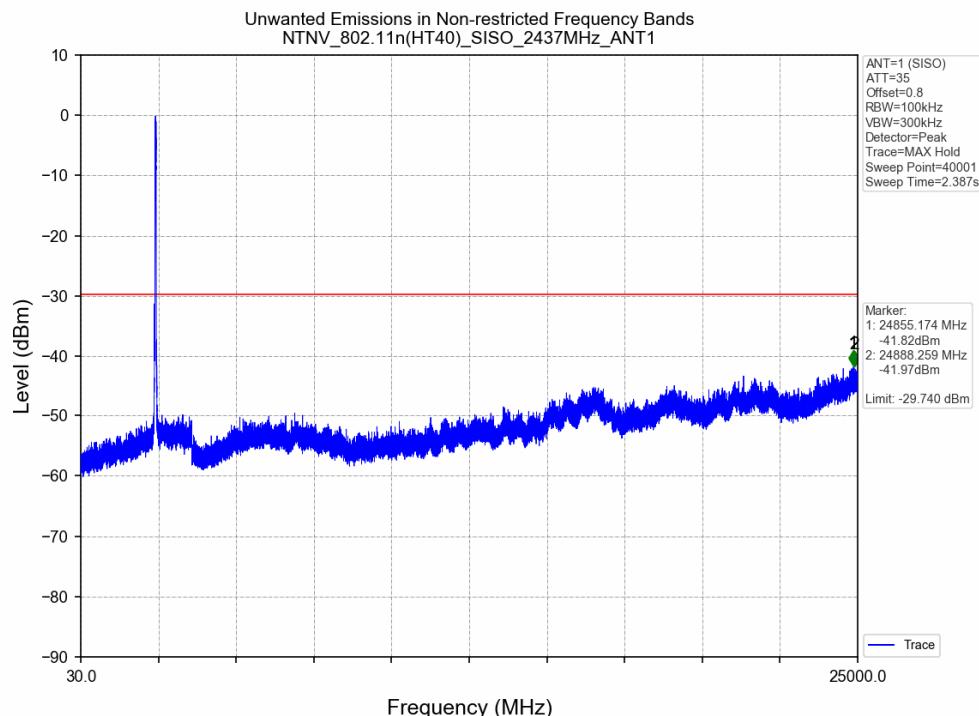


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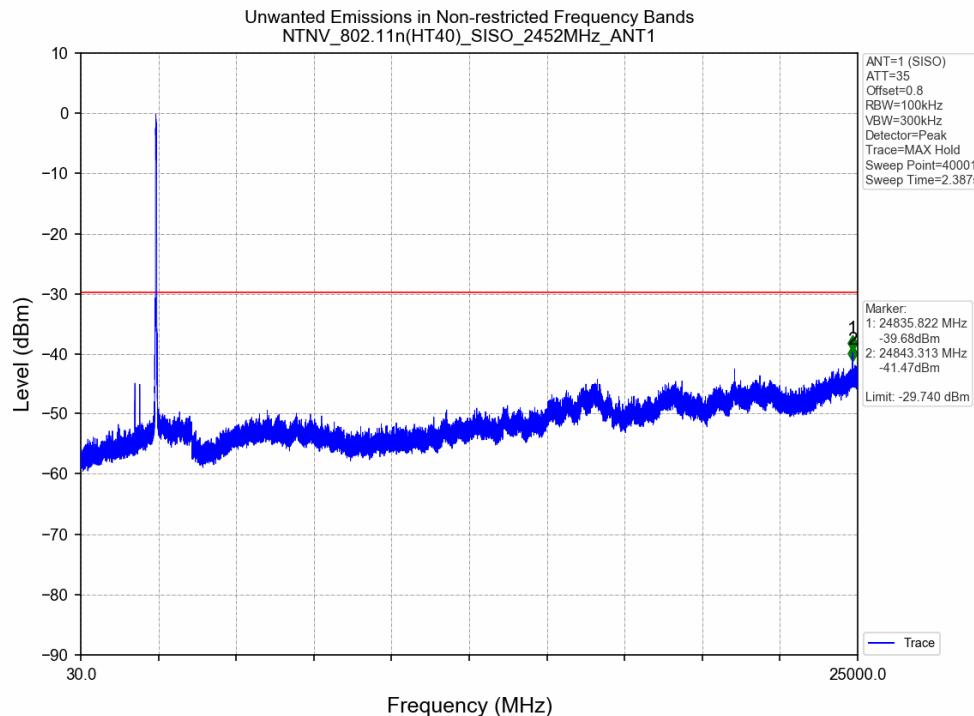


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