

Appendix RF test data for BLE

1. Duty Cycle

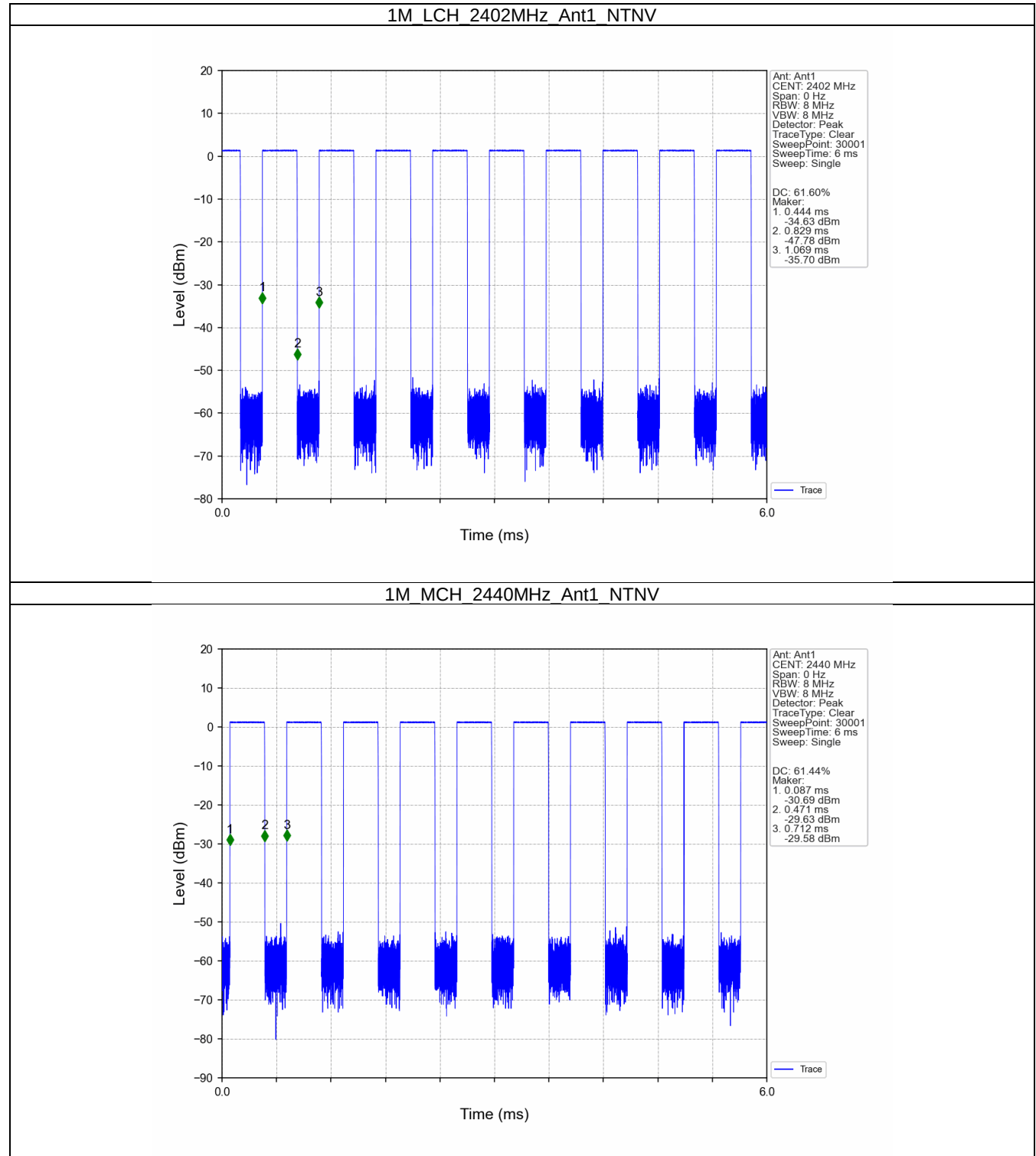
1.1 Test Result

1.1.1 Ant1

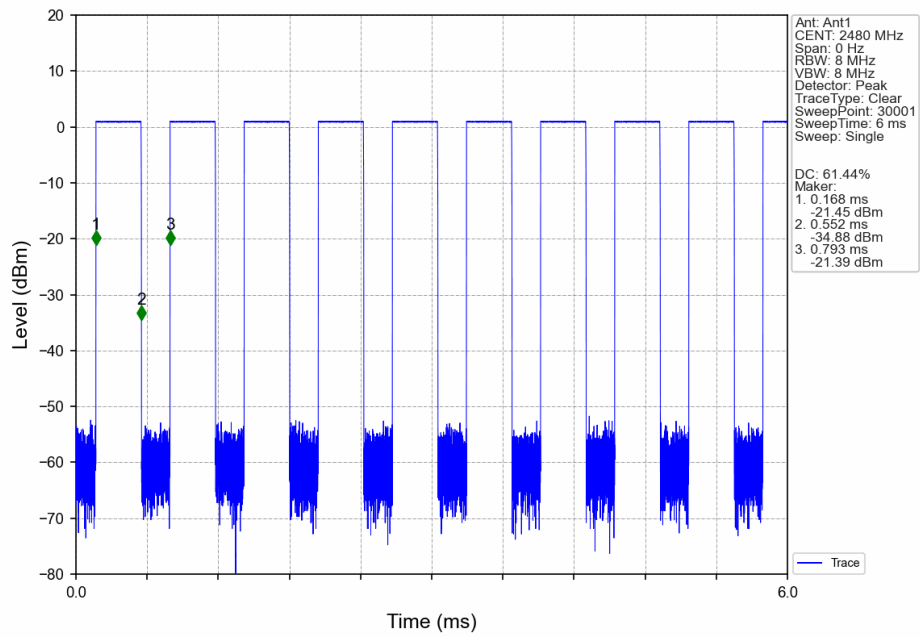
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.385	0.625	61.60	2.10	0.00
		2440	0.384	0.625	61.44	2.12	0.00
		2480	0.384	0.625	61.44	2.12	0.00
2M	SISO	2402	0.199	0.625	31.84	4.97	0.03
		2440	0.199	0.625	31.84	4.97	0.00
		2480	0.199	0.625	31.84	4.97	0.00

1.2 Test Graph

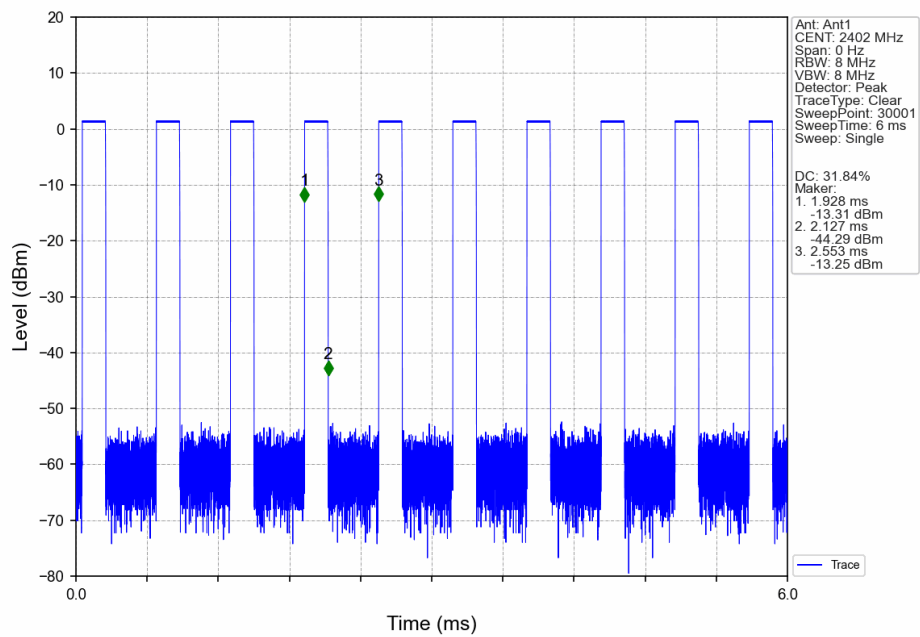
1.2.1 Ant1



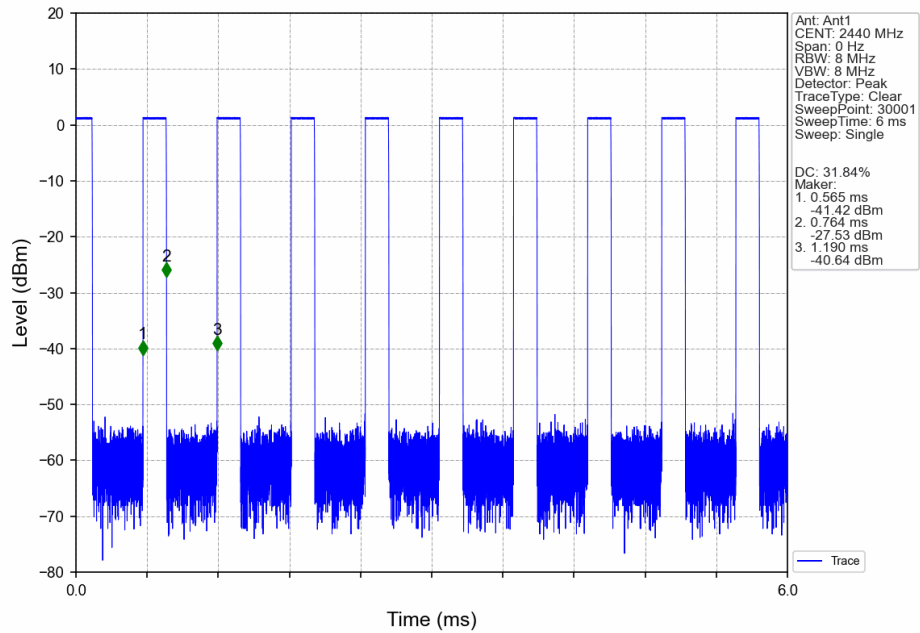
1M HCH 2480MHz Ant1 NTNV



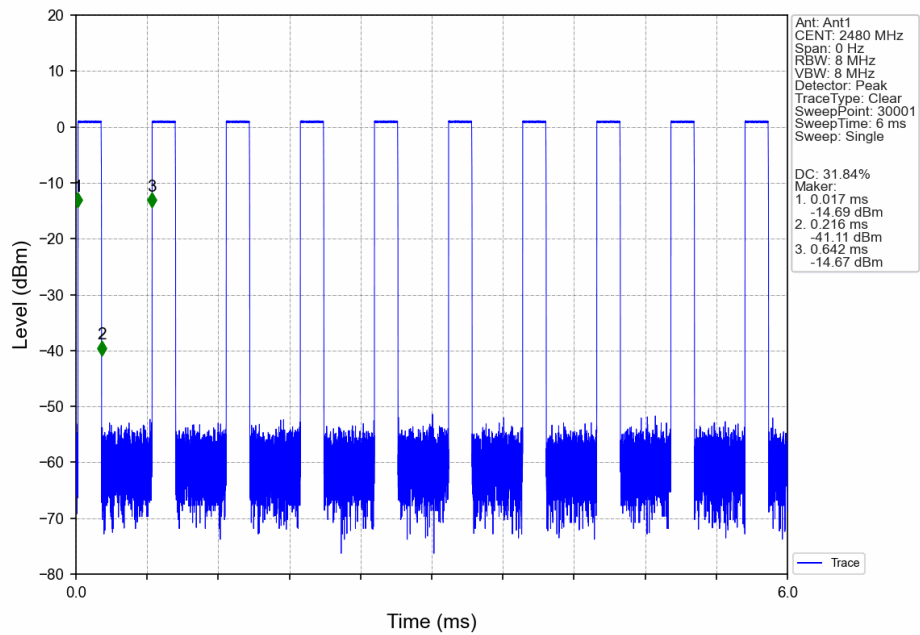
2M LCH 2402MHz Ant1 NTNV



2M MCH 2440MHz Ant1 NTN



2M HCH 2480MHz Ant1 NTN



2. Bandwidth

2.1 Test Result

2.1.1 OBW

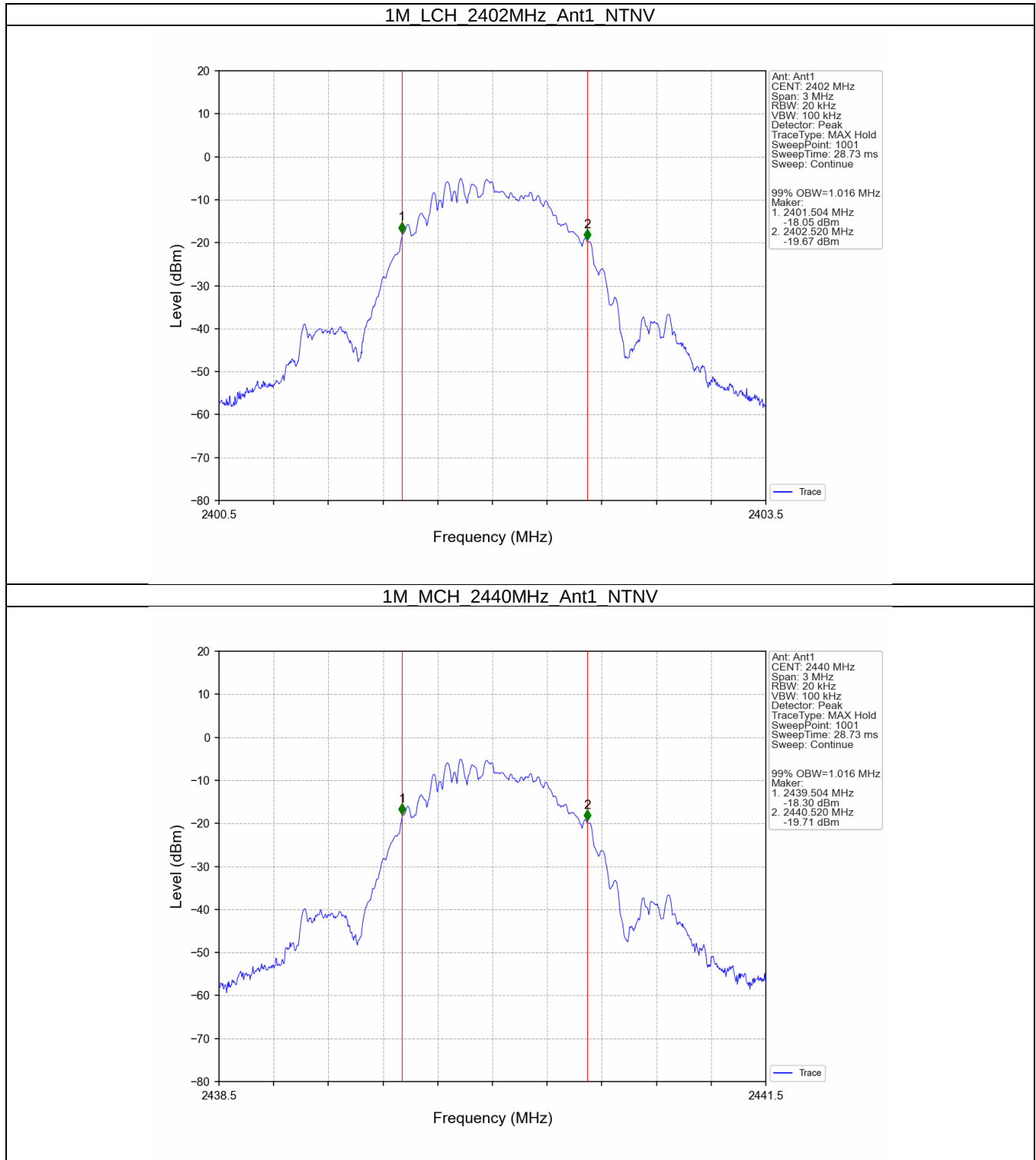
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.016	/	Pass
		2440	1	1.016	/	Pass
		2480	1	1.021	/	Pass
2M	SISO	2402	1	2.029	/	Pass
		2440	1	2.032	/	Pass
		2480	1	2.034	/	Pass

2.1.2 6dB BW

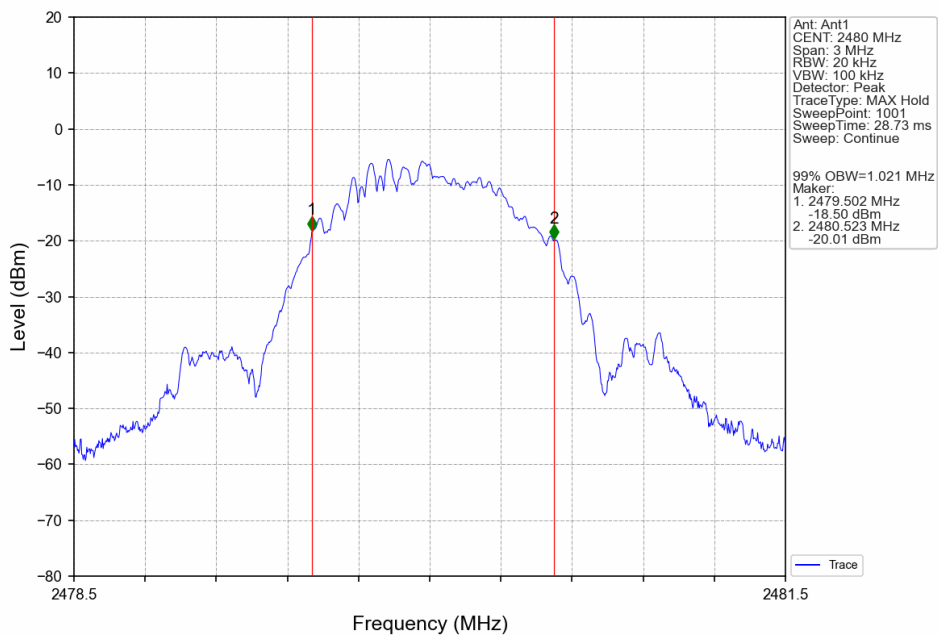
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.684	≥ 0.5	Pass
		2440	1	0.682	≥ 0.5	Pass
		2480	1	0.697	≥ 0.5	Pass
2M	SISO	2402	1	1.181	≥ 0.5	Pass
		2440	1	1.192	≥ 0.5	Pass
		2480	1	1.202	≥ 0.5	Pass

2.2 Test Graph

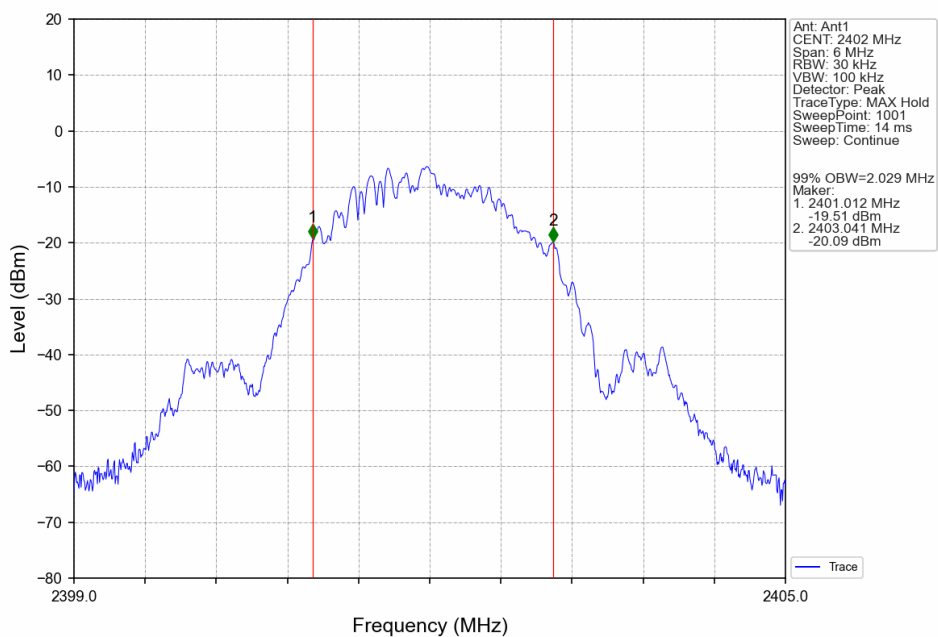
2.2.1 OBW



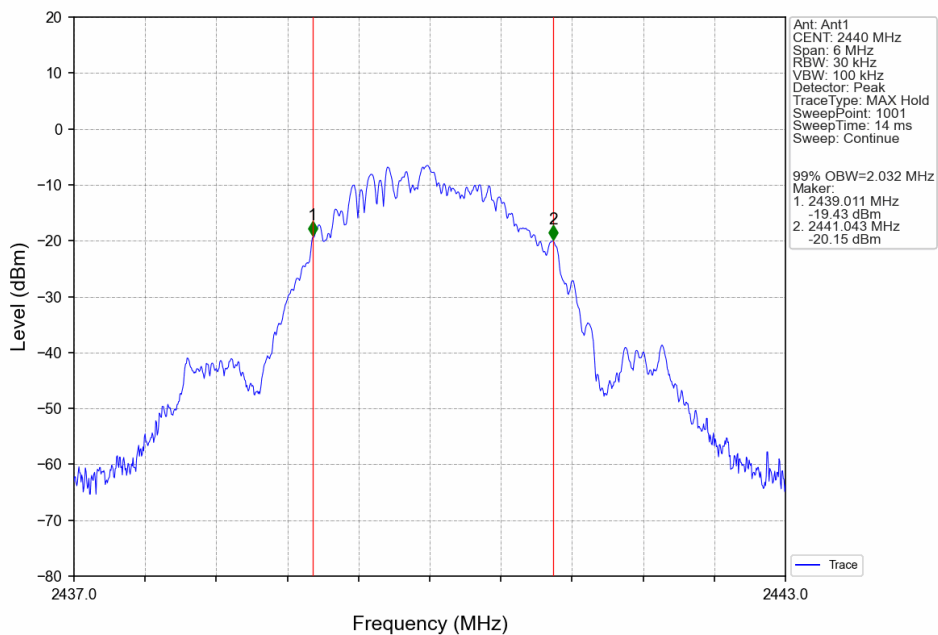
1M HCH 2480MHz Ant1 NTN



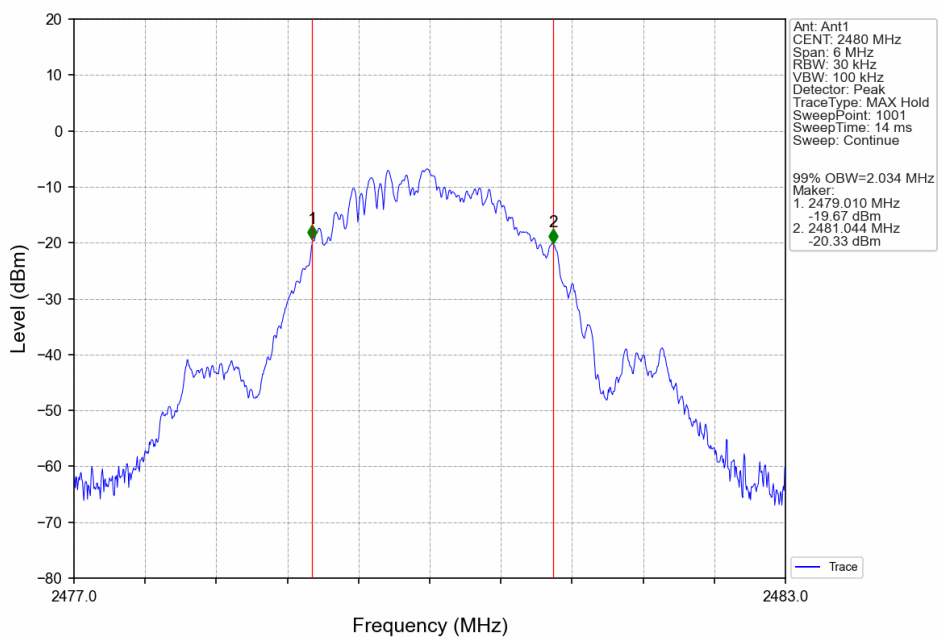
2M LCH 2402MHz Ant1 NTN



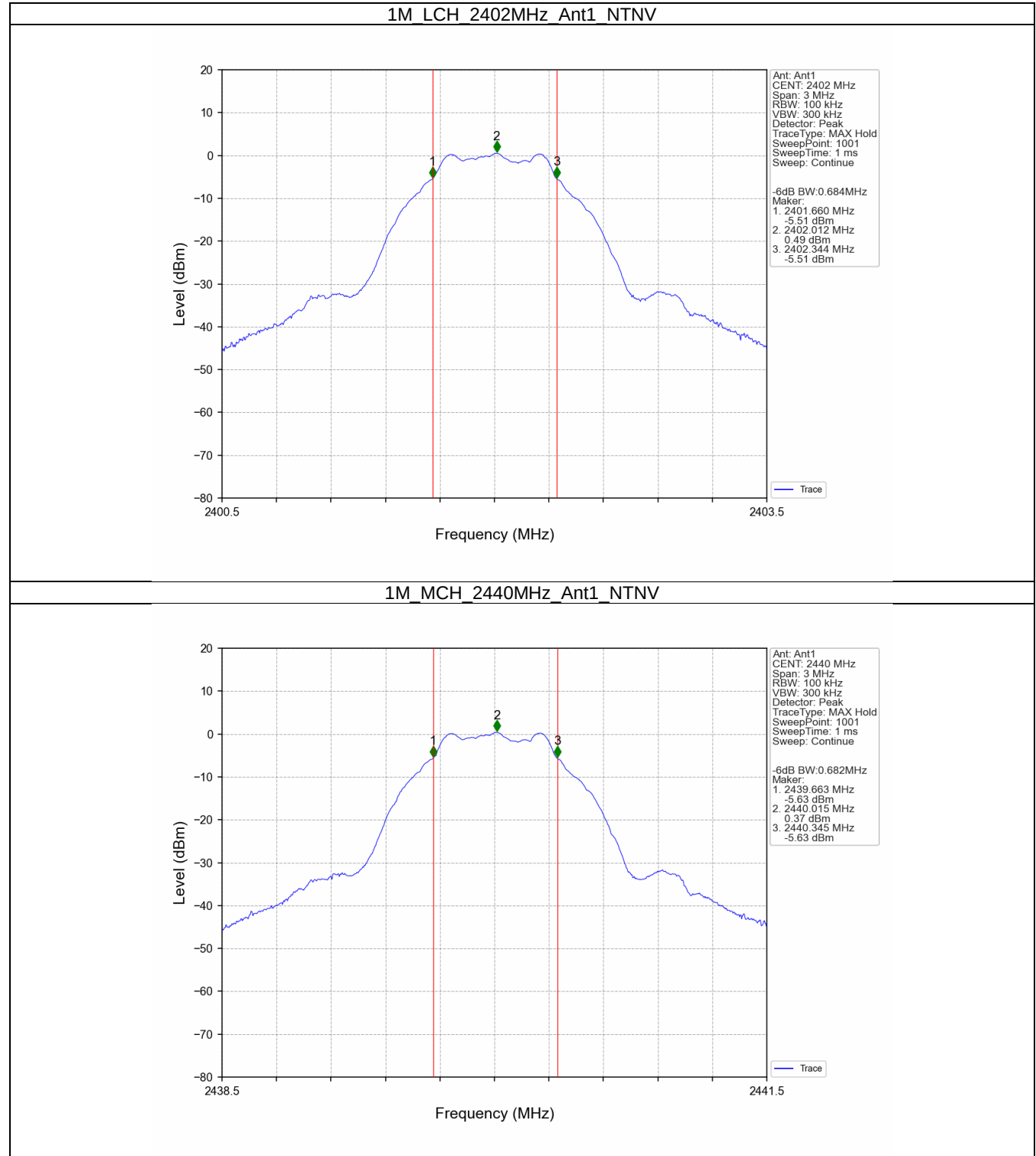
2M MCH 2440MHz Ant1 NTN



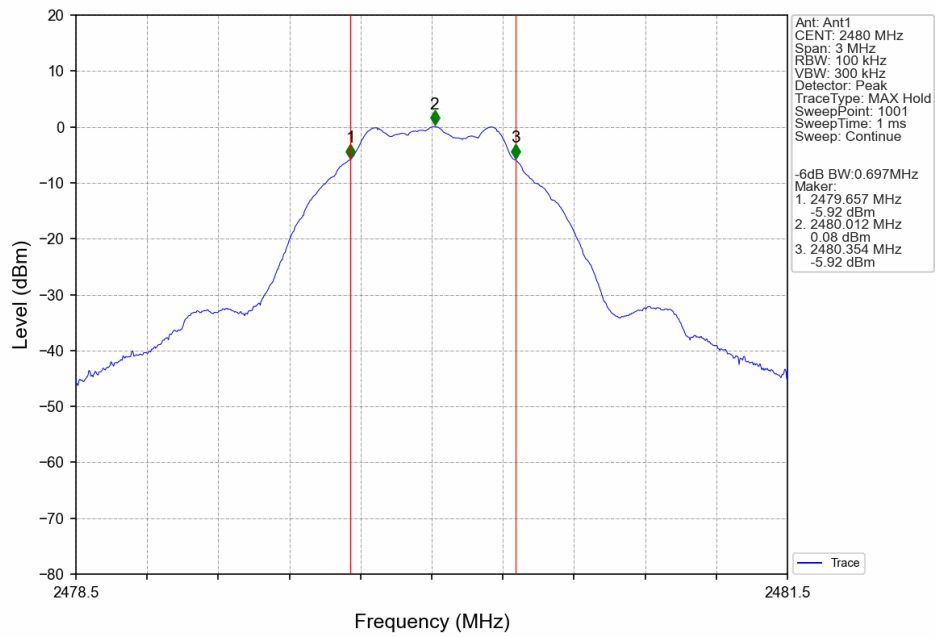
2M HCH 2480MHz Ant1 NTN



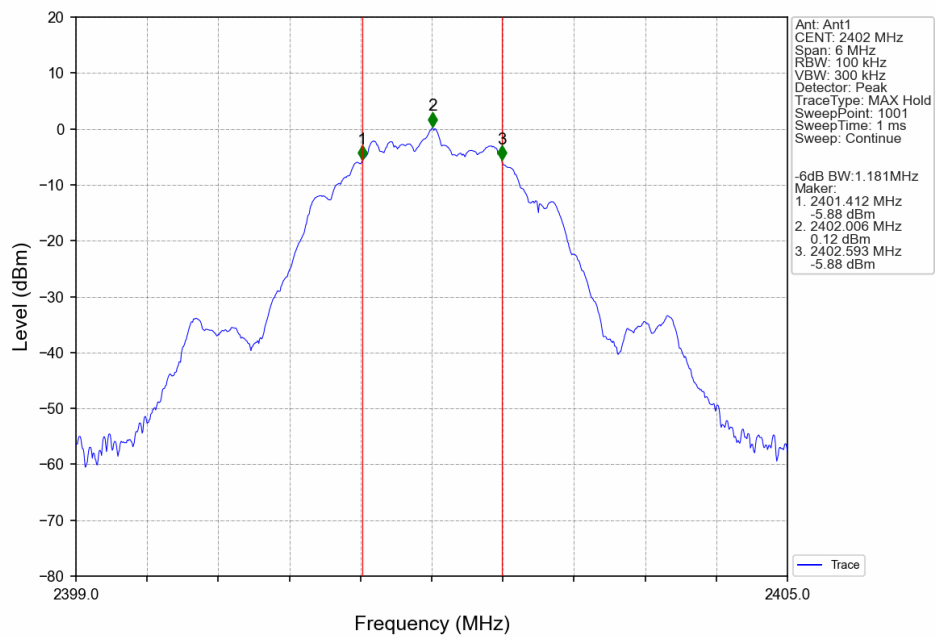
2.2.2 6dB BW



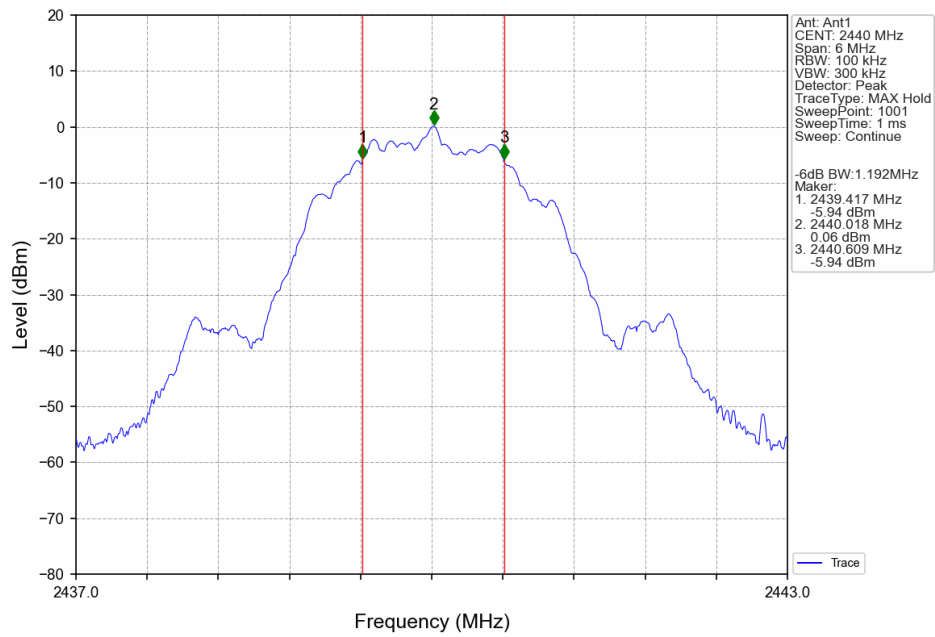
1M HCH 2480MHz Ant1 NTNV



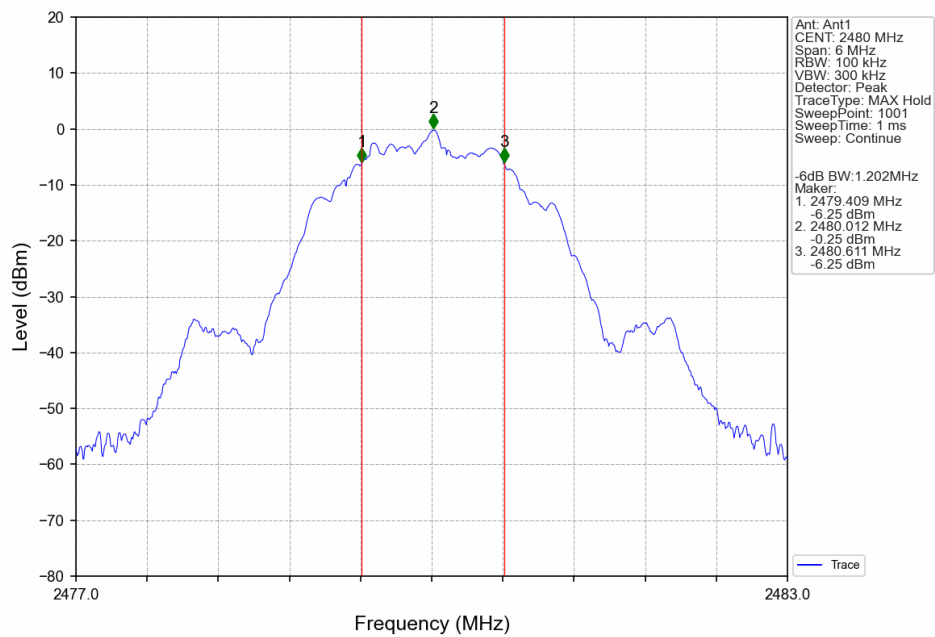
2M LCH 2402MHz Ant1 NTNV



2M MCH 2440MHz Ant1 NTNV



2M HCH 2480MHz Ant1 NTNV



3. Maximum Conducted Output Power

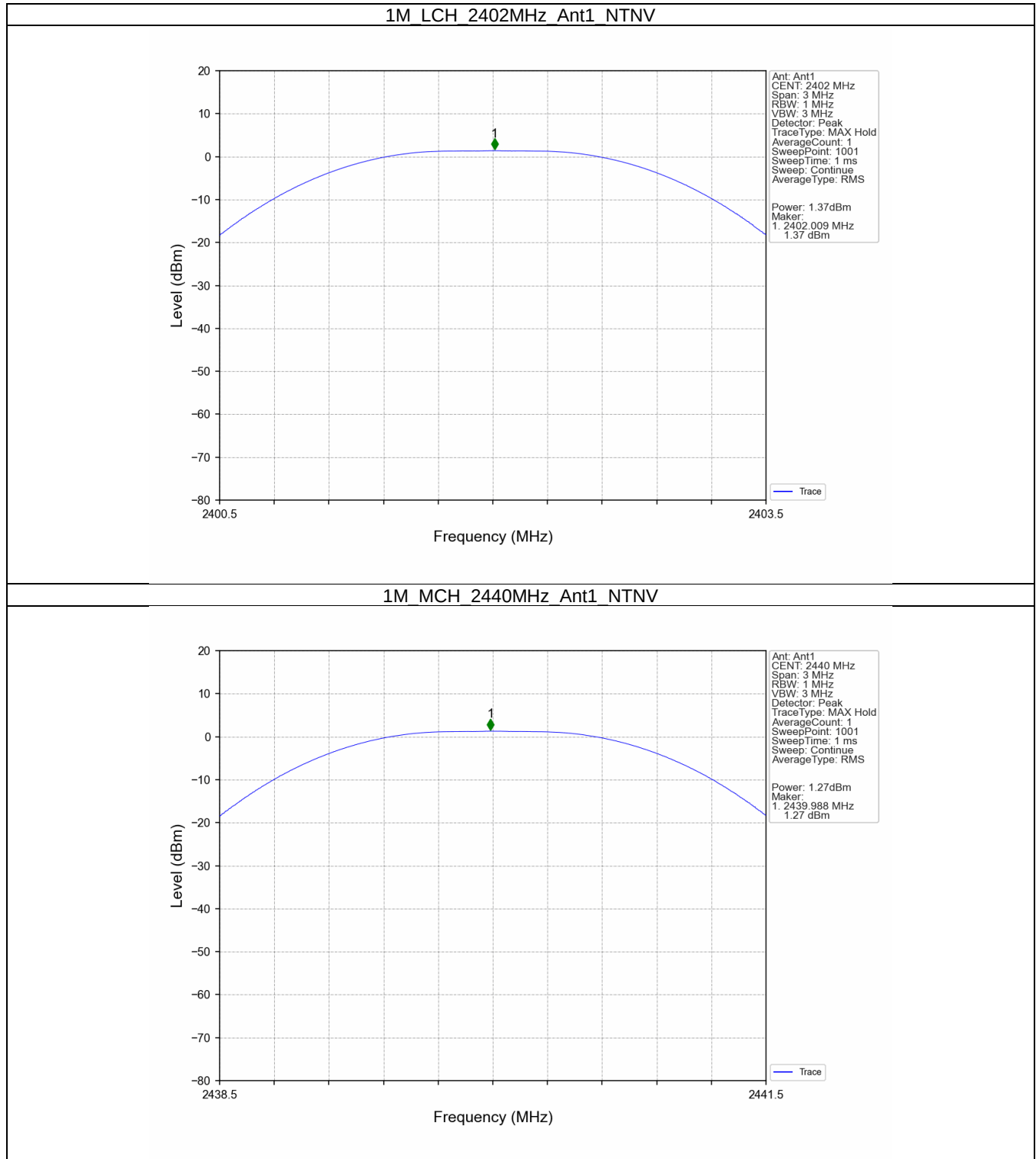
3.1 Test Result

3.1.1 Power

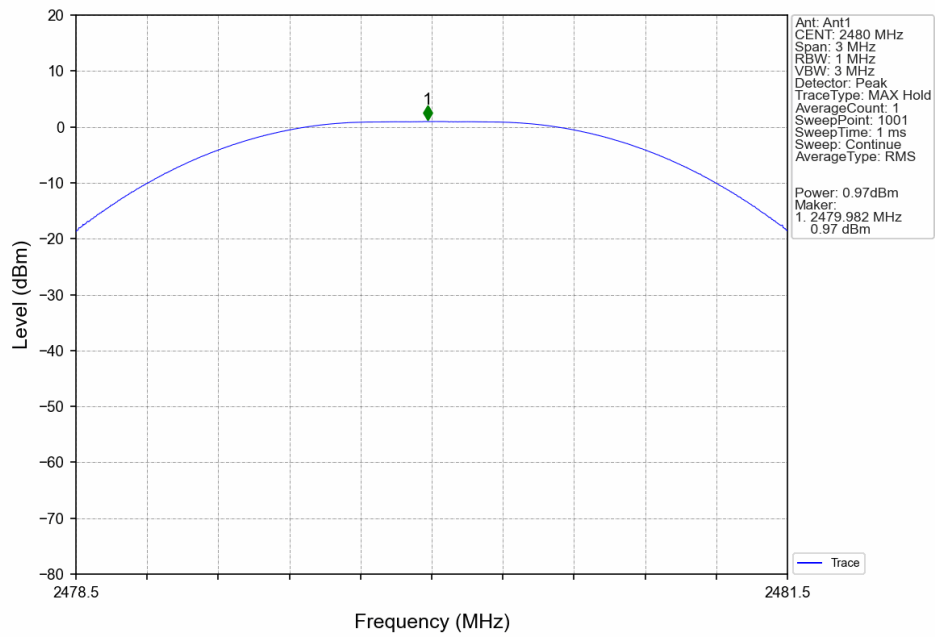
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	1.37	<=30	Pass
		2440	1.27	<=30	Pass
		2480	0.97	<=30	Pass
2M	SISO	2402	1.38	<=30	Pass
		2440	1.29	<=30	Pass
		2480	0.99	<=30	Pass

3.2 Test Graph

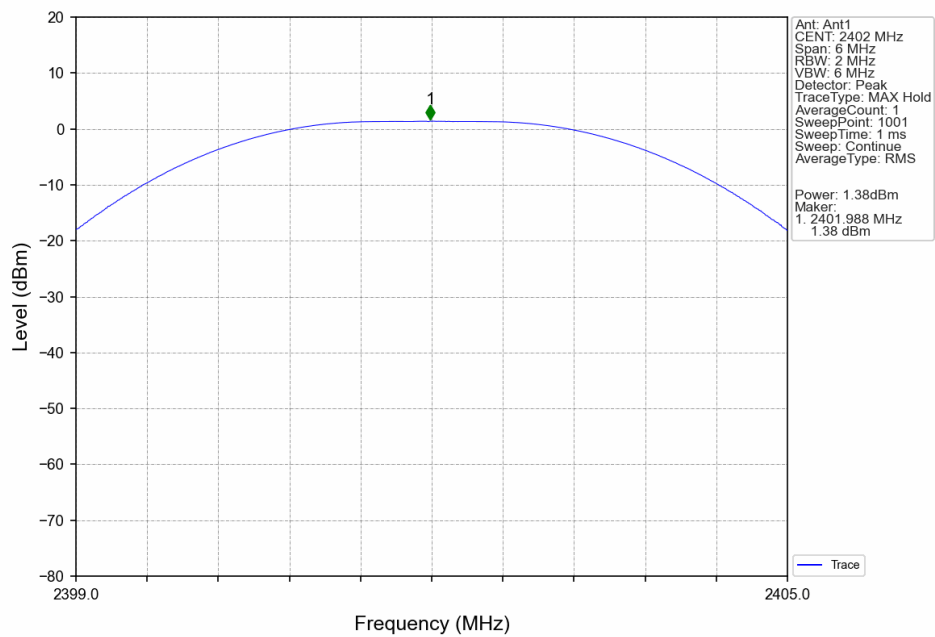
3.2.1 Power



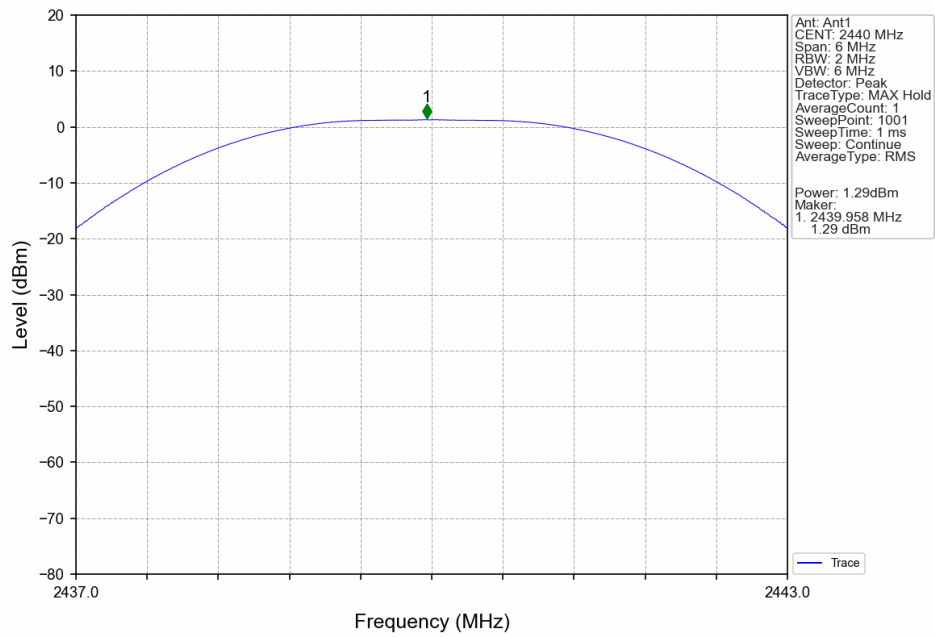
1M HCH 2480MHz Ant1 NTNV



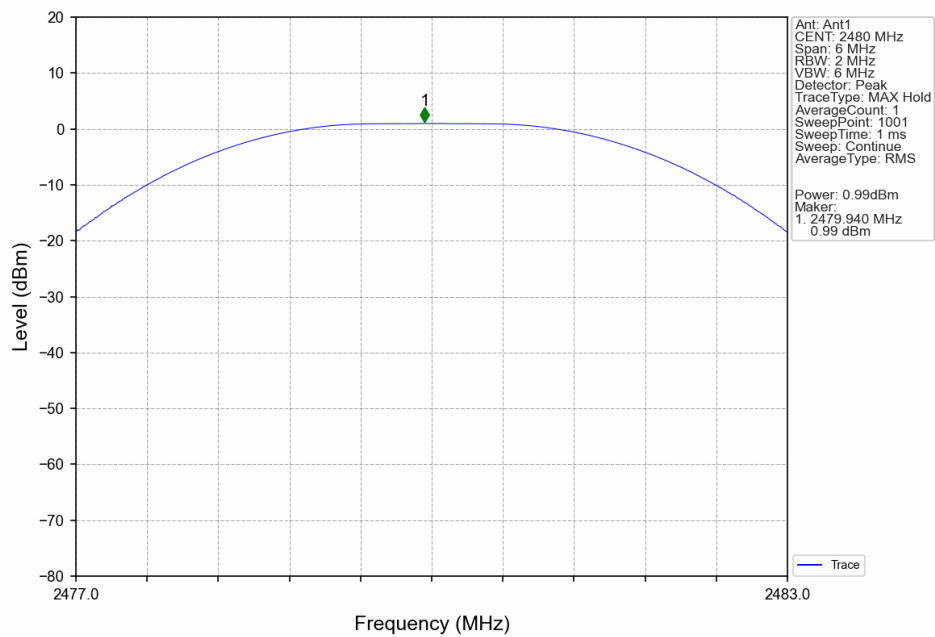
2M LCH 2402MHz Ant1 NTNV



2M MCH 2440MHz Ant1 NTNV



2M HCH 2480MHz Ant1 NTNV



4. Maximum Power Spectral Density

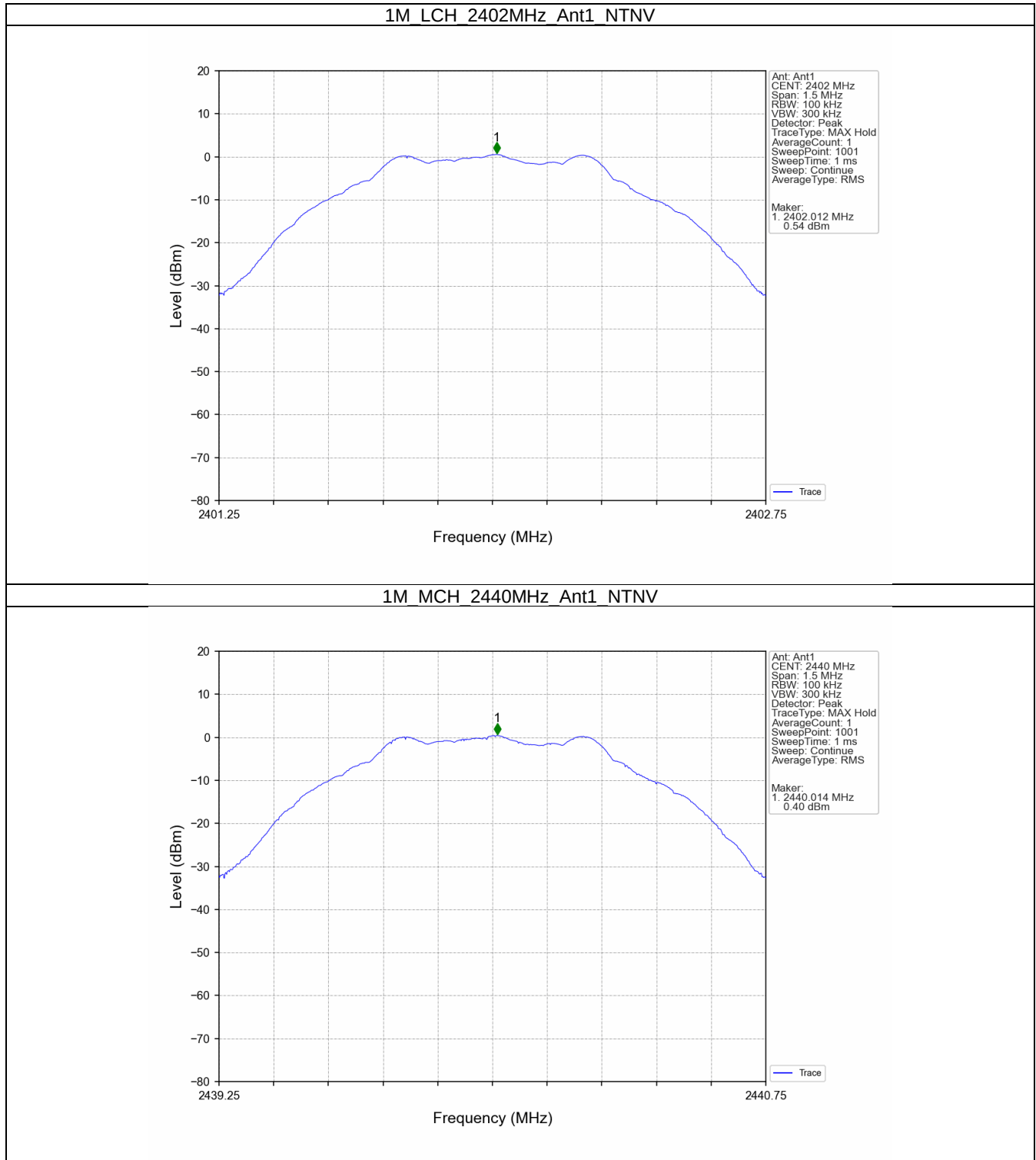
4.1 Test Result

4.1.1 PSD

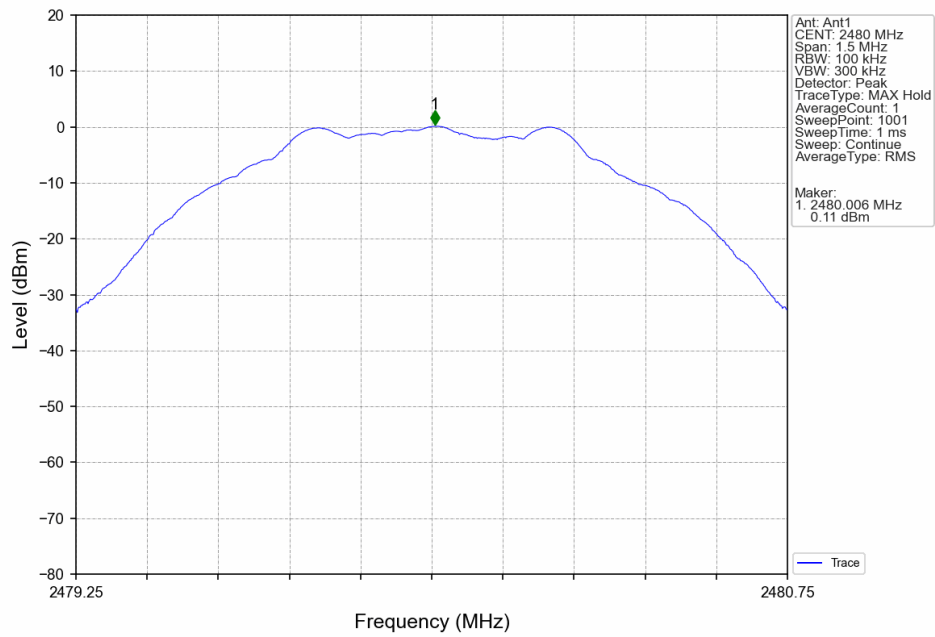
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
1M	SISO	2402	0.54dBm/100kHz	<=8	Pass
		2440	0.40dBm/100kHz	<=8	Pass
		2480	0.11dBm/100kHz	<=8	Pass
2M	SISO	2402	0.23dBm/100kHz	<=8	Pass
		2440	0.13dBm/100kHz	<=8	Pass
		2480	-0.16dBm/100kHz	<=8	Pass

4.2 Test Graph

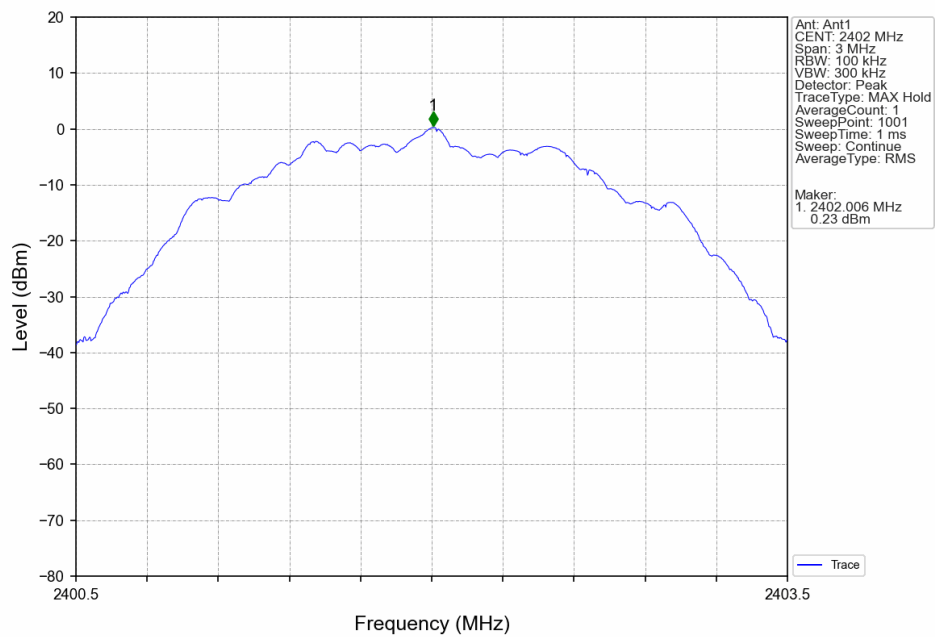
4.2.1 PSD



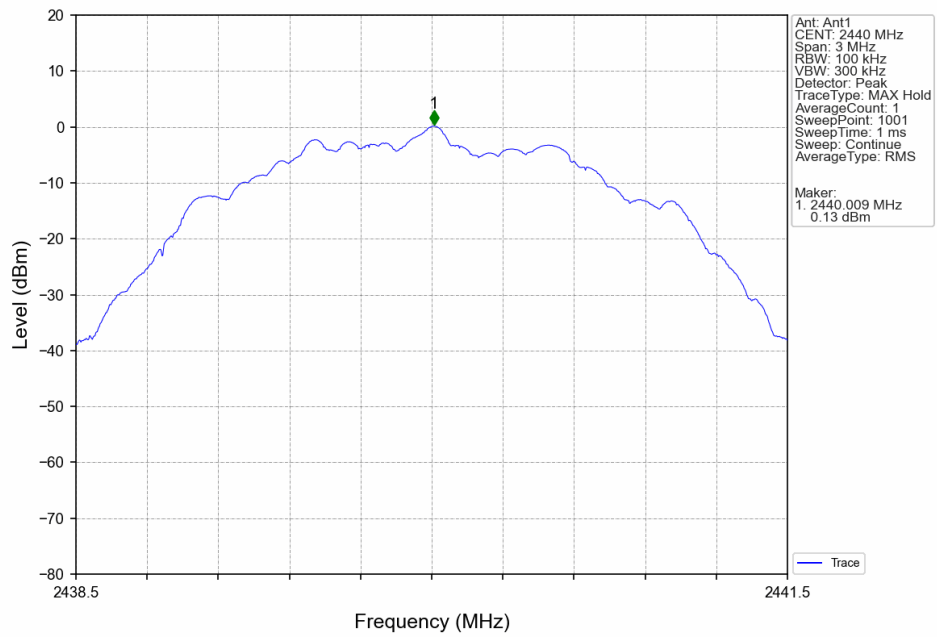
1M HCH 2480MHz Ant1 NTVN



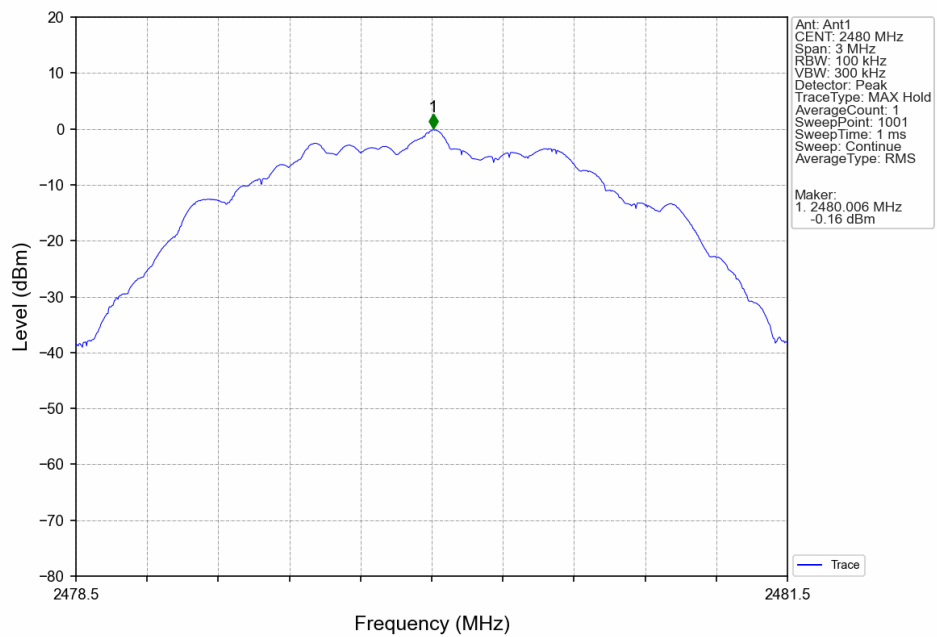
2M LCH 2402MHz Ant1 NTVN



2M MCH 2440MHz Ant1 NTNV



2M HCH 2480MHz Ant1 NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

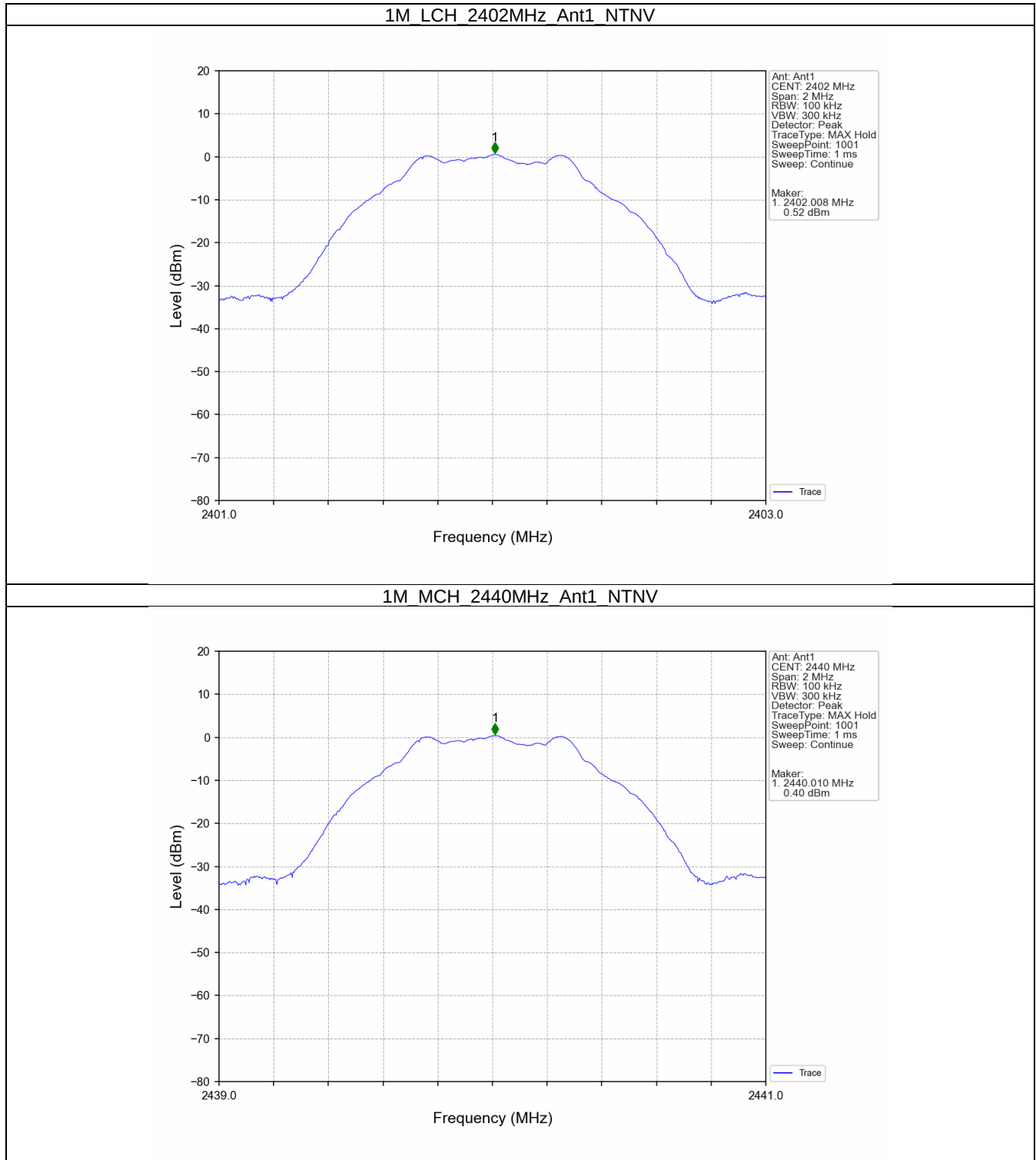
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	0.52
		2440	1	0.40
		2480	1	0.12
2M	SISO	2402	1	0.22
		2440	1	0.10
		2480	1	-0.19

5.1.2 CSE

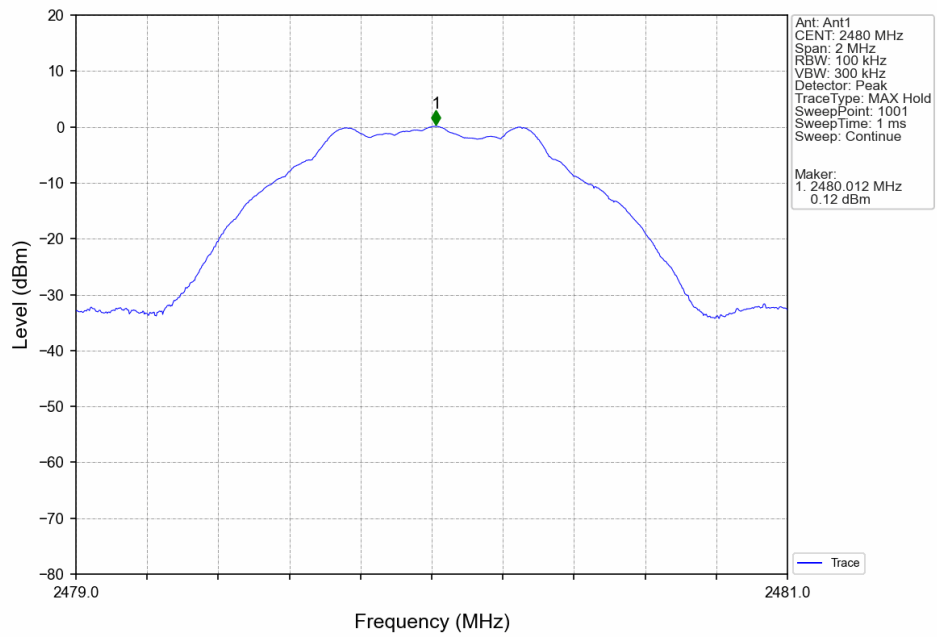
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	0.52	-19.48	Pass
		2440	1	0.40	-19.60	Pass
		2480	1	0.12	-19.88	Pass
2M	SISO	2402	1	0.22	-19.78	Pass
		2440	1	0.10	-19.90	Pass
		2480	1	-0.19	-20.19	Pass

5.2 Test Graph

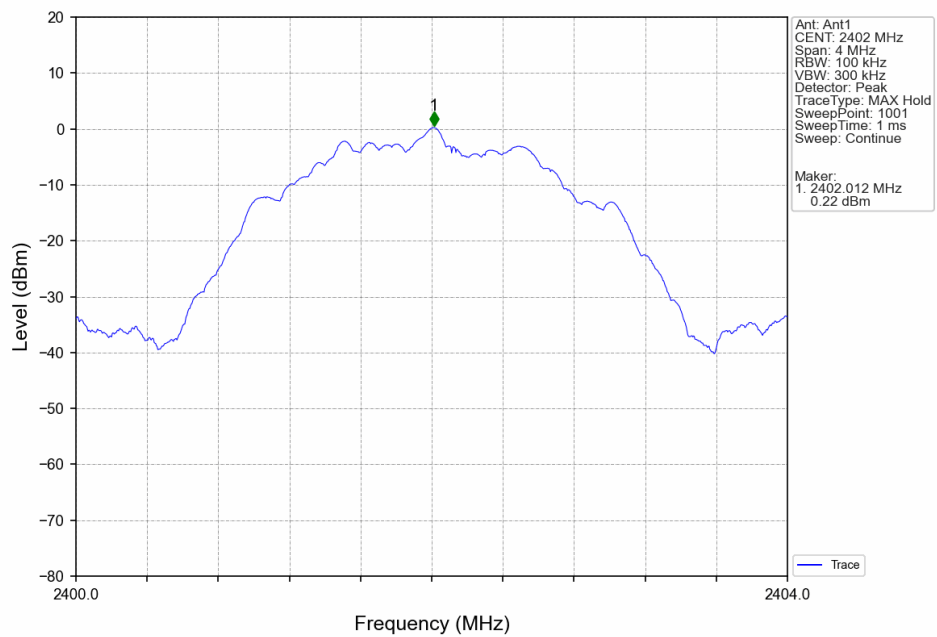
5.2.1 Ref



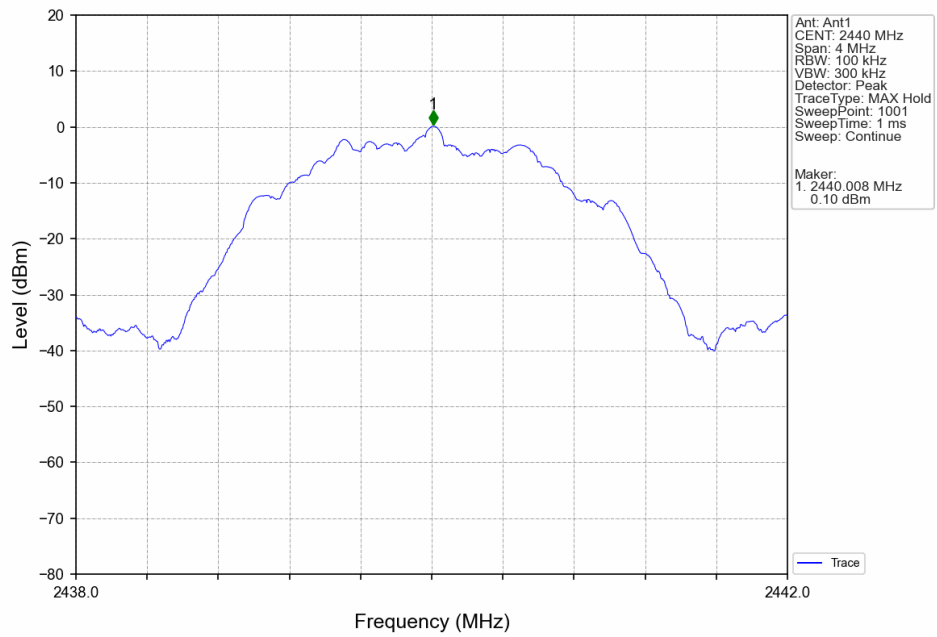
1M HCH 2480MHz Ant1 NTV



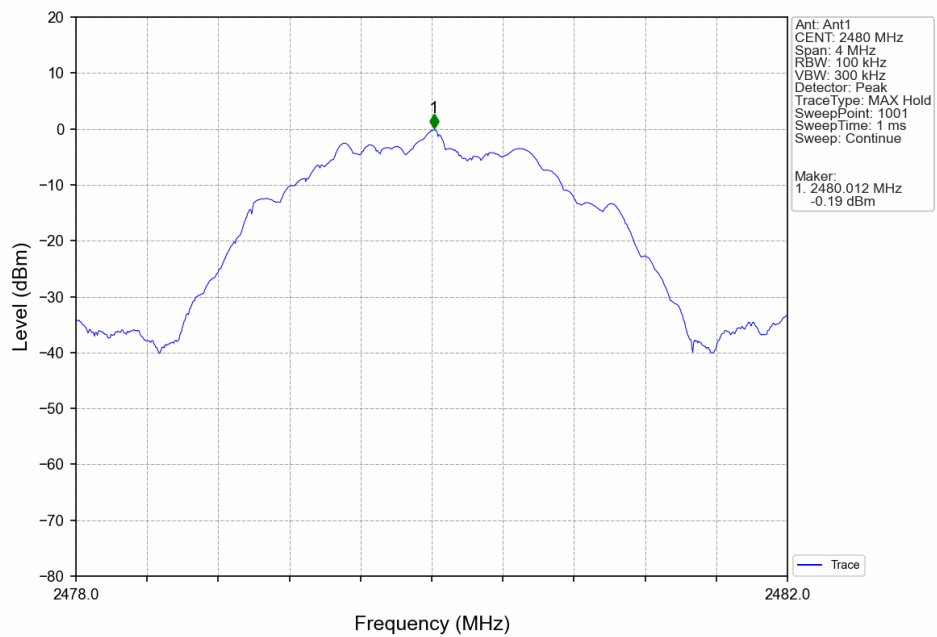
2M LCH 2402MHz Ant1 NTV



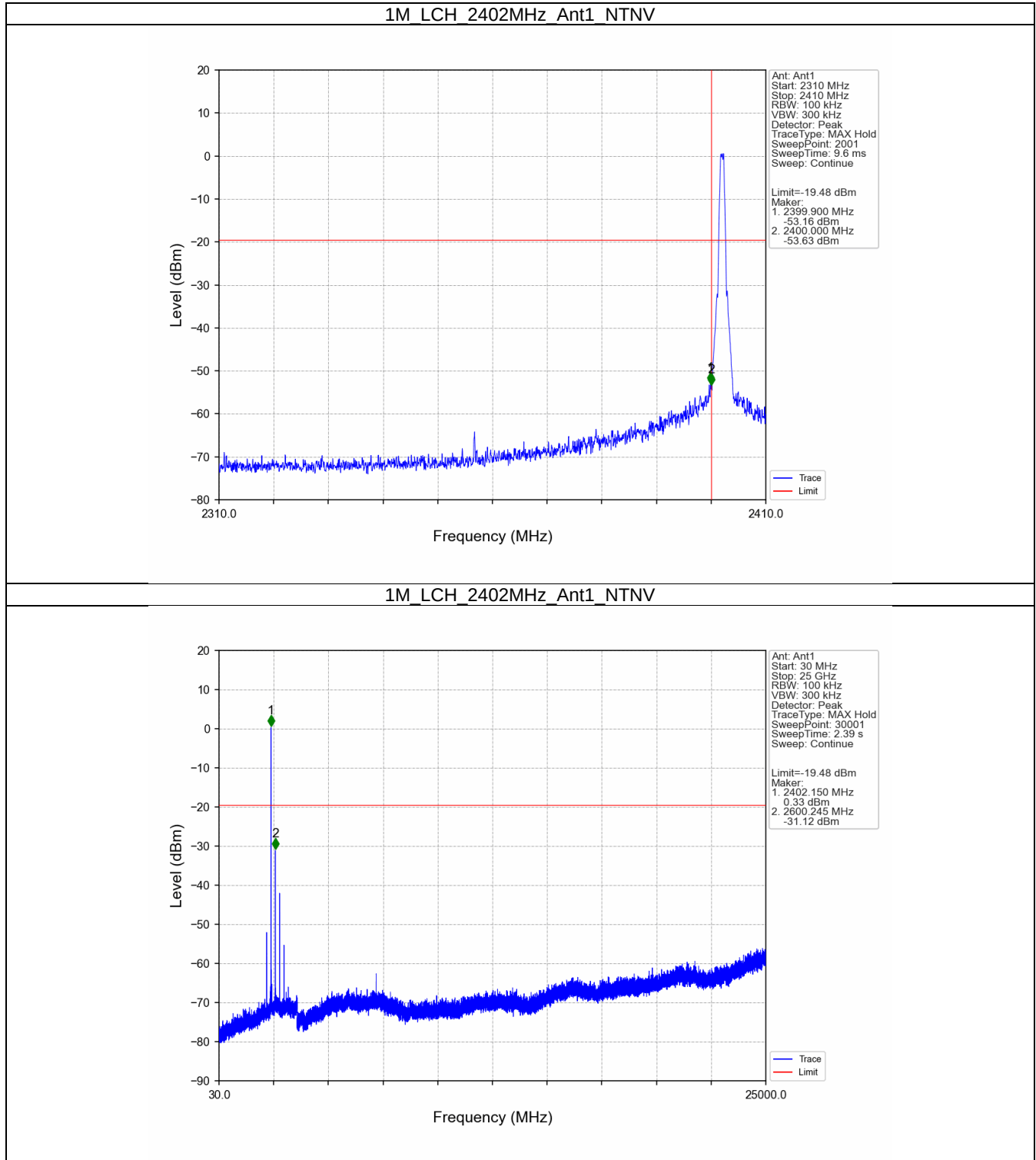
2M MCH 2440MHz Ant1 NTNV



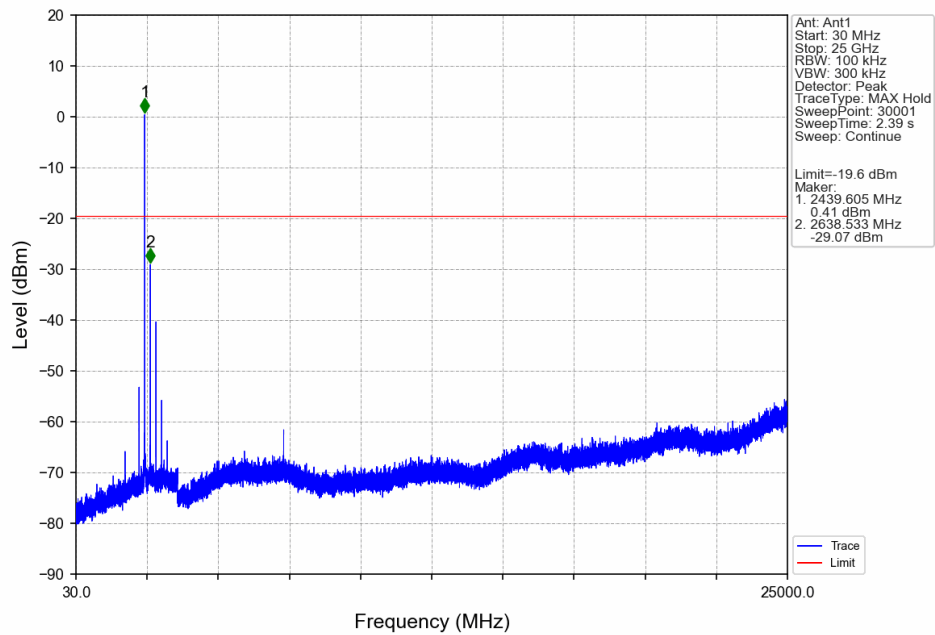
2M HCH 2480MHz Ant1 NTNV



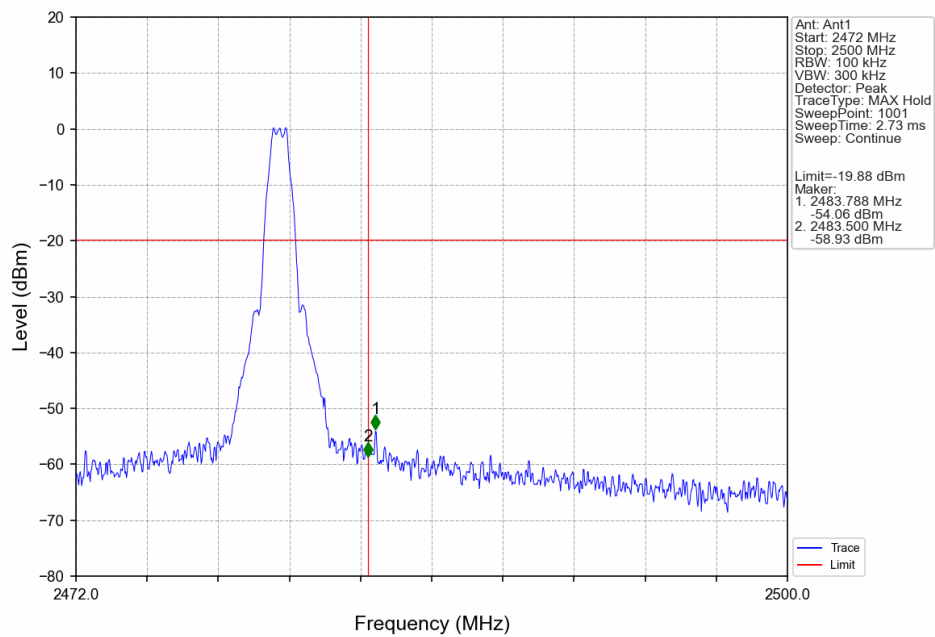
5.2.2 CSE



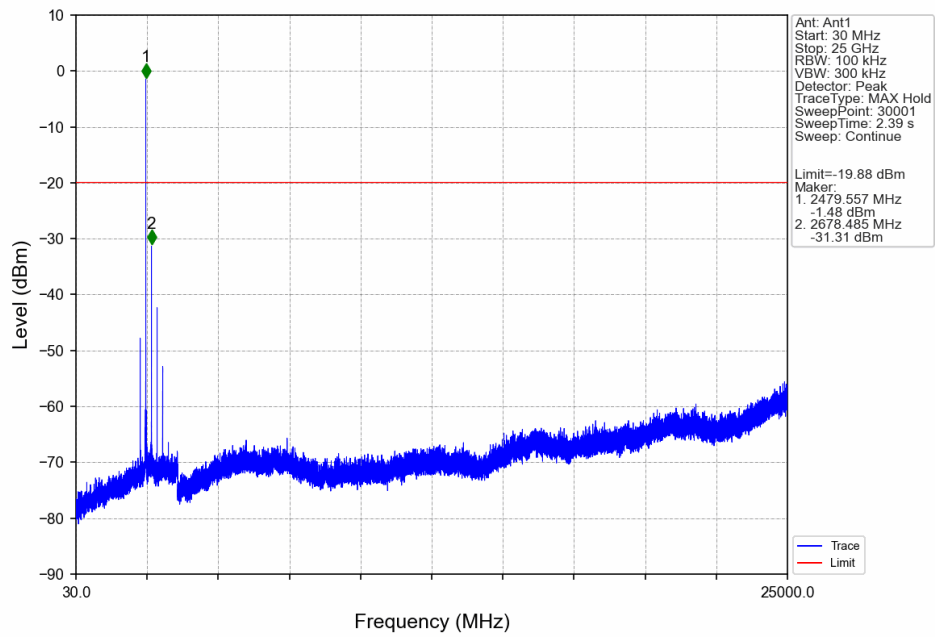
1M MCH 2440MHz Ant1 NTNV



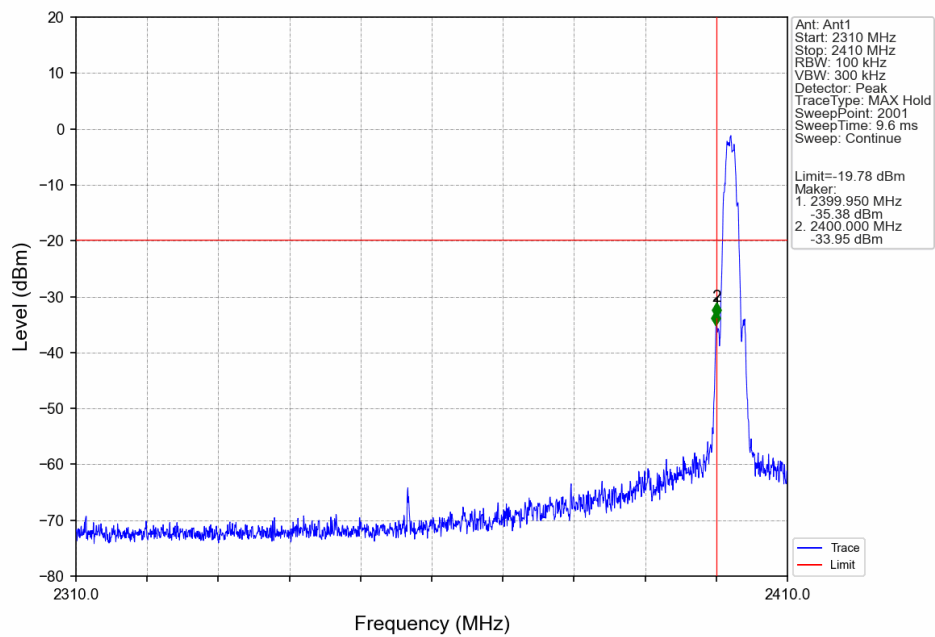
1M HCH 2480MHz Ant1 NTNV



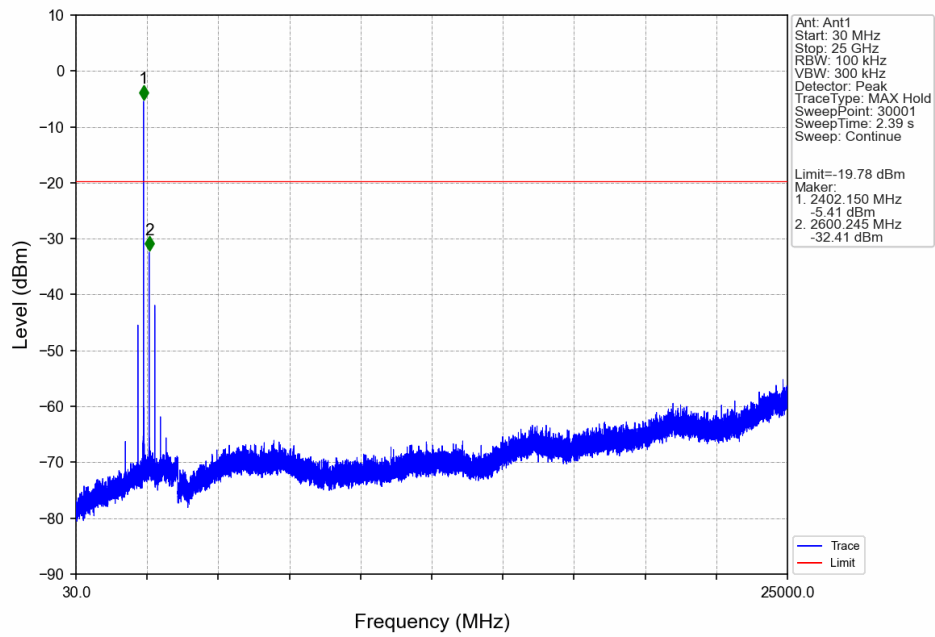
1M HCH 2480MHz Ant1 NTVN



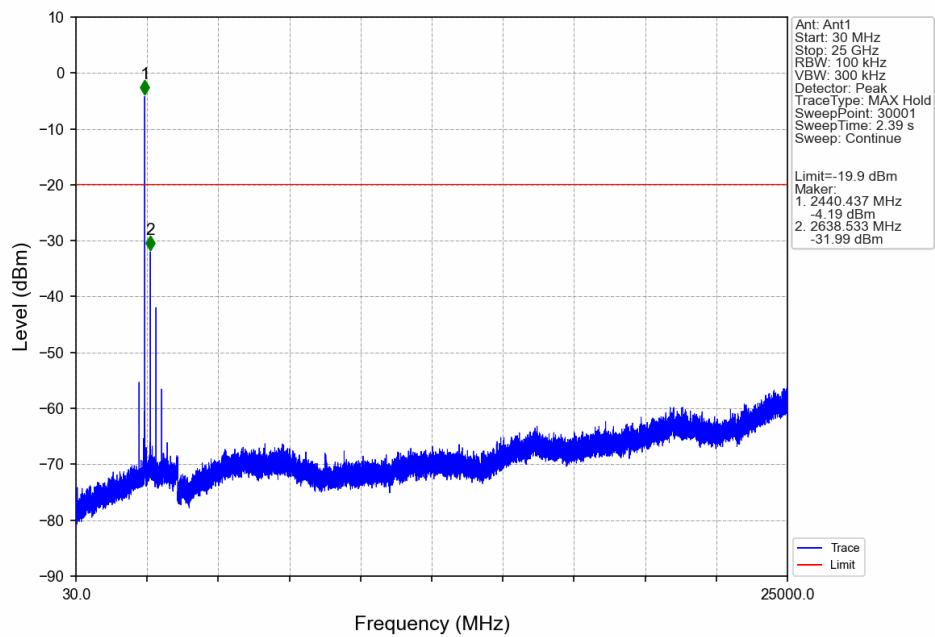
2M LCH 2402MHz Ant1 NTVN



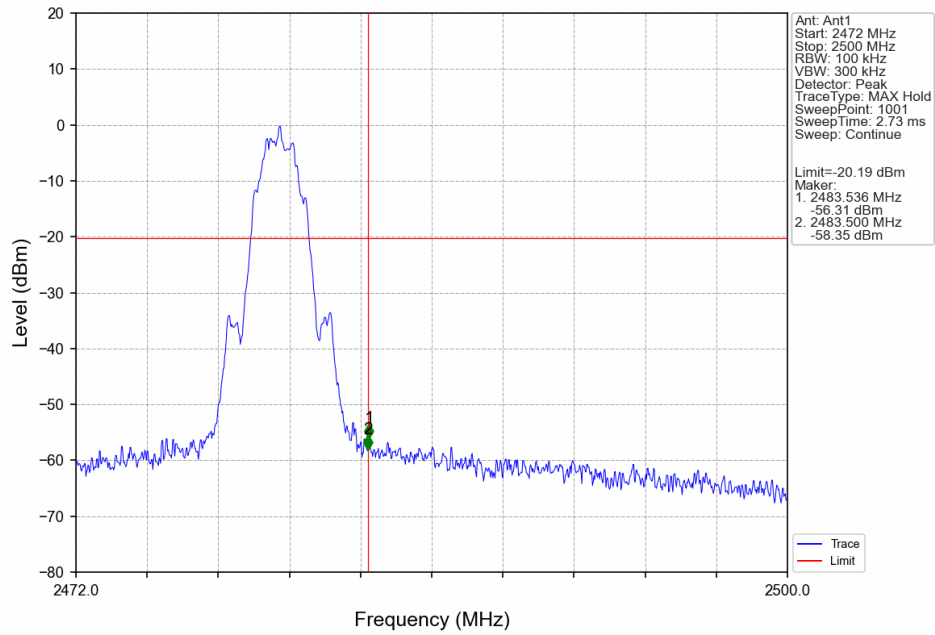
2M LCH 2402MHz Ant1 NTN



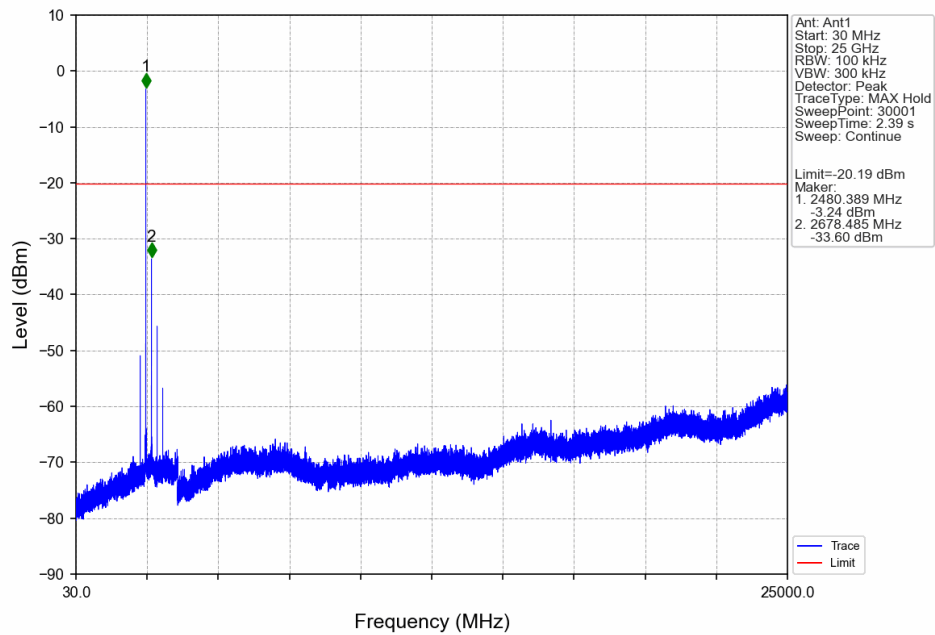
2M MCH 2440MHz Ant1 NTN



2M HCH 2480MHz Ant1 NTN



2M HCH 2480MHz Ant1 NTN



***** End of Report *****