

Appendix: Bluetooth LE

Content

Content	2
1. Duty Cycle	4
1.1 Test Result	4
1.1.1 Ant1	4
1.2 Test Graph	5
1.2.1 Ant1	5
2. Bandwidth	8
2.1 Test Result	8
2.1.1 OBW	8
2.1.2 6dB BW	8
2.2 Test Graph	9
2.2.1 OBW	9
2.2.2 6dB BW	12
3. Maximum Conducted Output Power	15
3.1 Test Result	15
3.1.1 Power	15
3.2 Test Graph	16
3.2.1 Power	16
4. Maximum Power Spectral Density	19
4.1 Test Result	19
4.1.1 PSD	19
4.2 Test Graph	20
4.2.1 PSD	20
5. Unwanted Emissions In Non-restricted Frequency Bands	23
5.1 Test Result	23

5.1.1 Ref..... 23

5.1.2 CSE..... 23

5.2 Test Graph..... 24

5.2.1 Ref..... 24

5.2.2 CSE..... 27

1. Duty Cycle

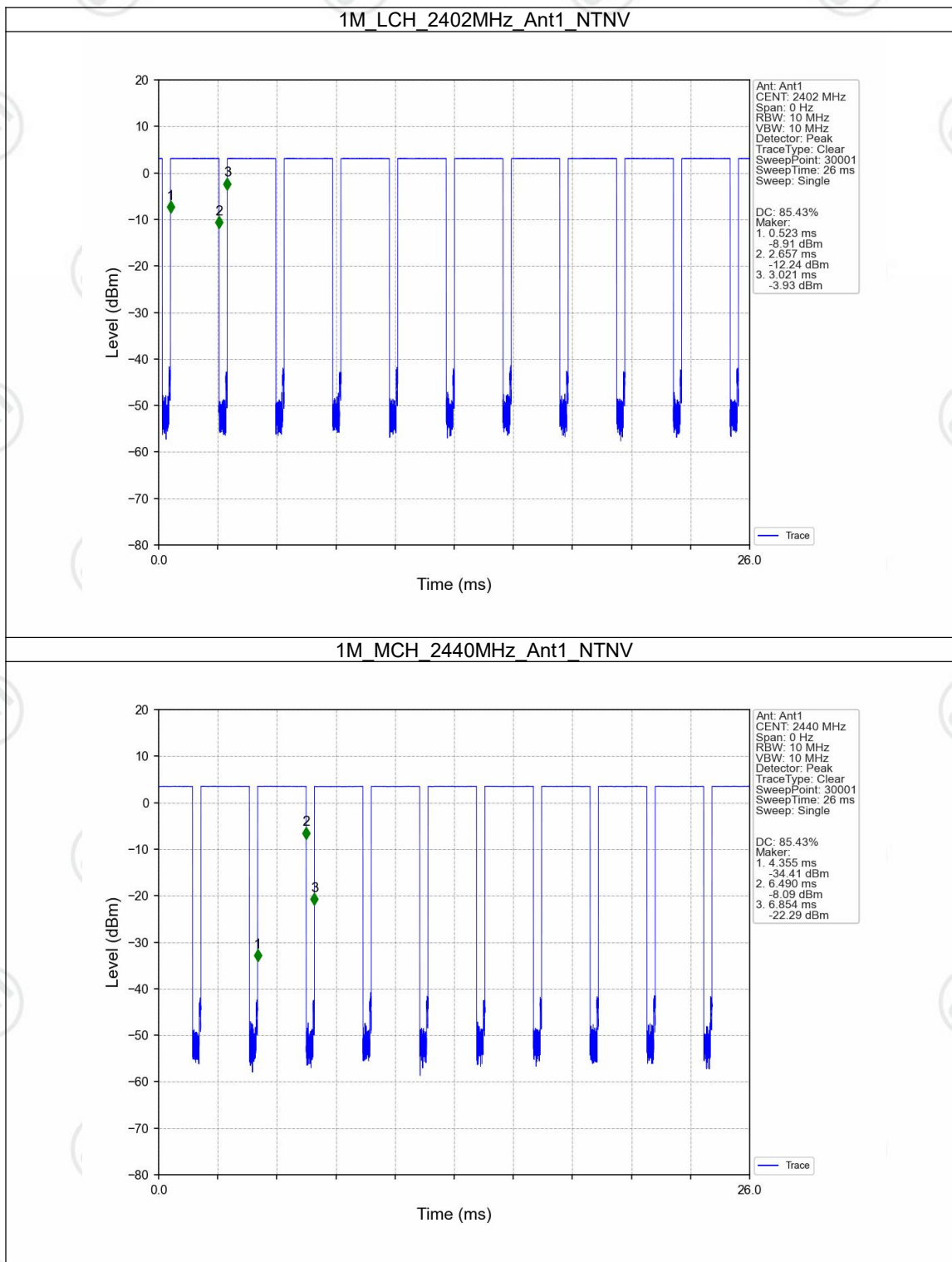
1.1 Test Result

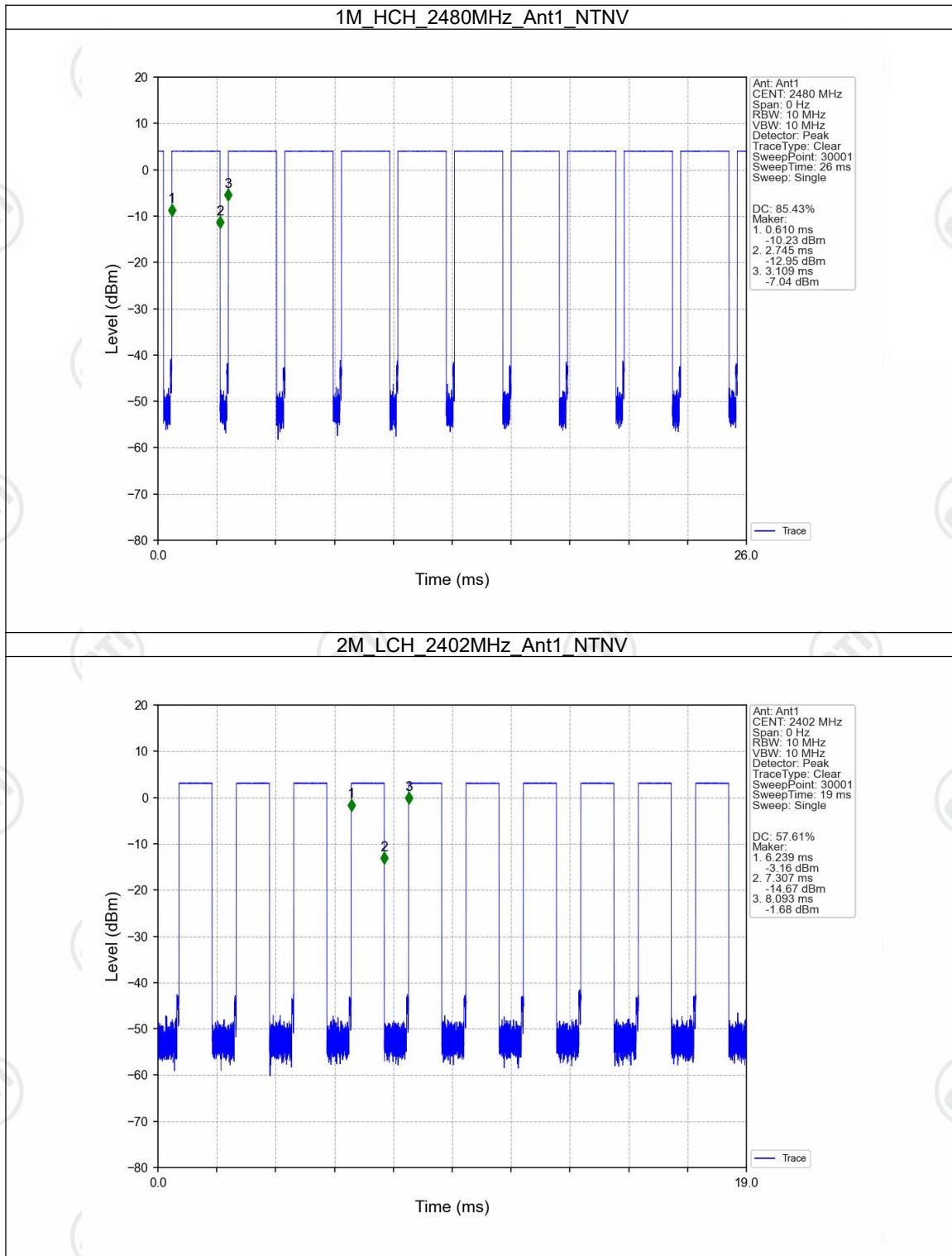
1.1.1 Ant1

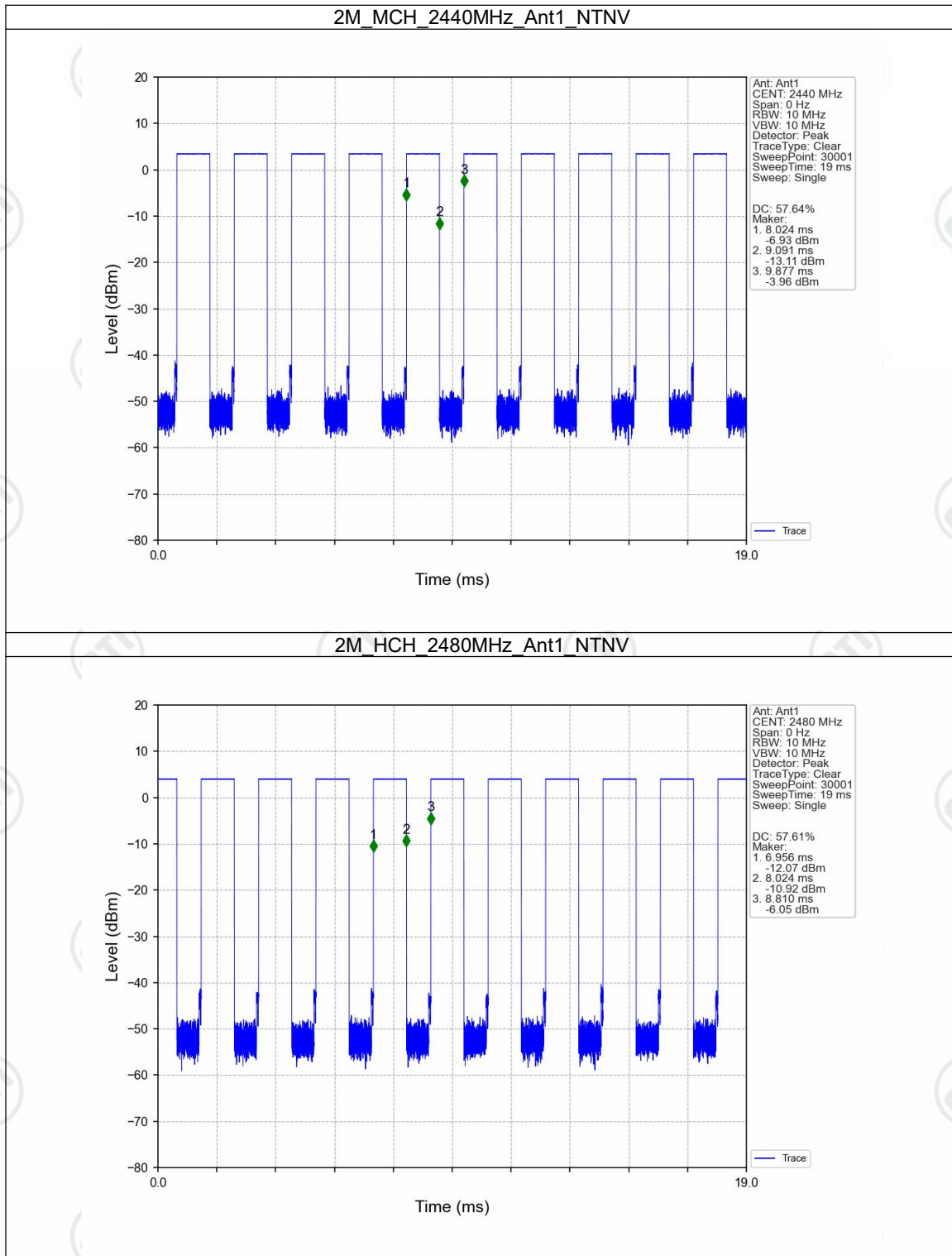
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	2.134	2.498	85.43	0.68	0.03
		2440	2.135	2.499	85.43	0.68	0.03
		2480	2.135	2.499	85.43	0.68	0.03
2M	SISO	2402	1.068	1.854	57.61	2.40	0.03
		2440	1.068	1.853	57.64	2.39	0.03
		2480	1.068	1.854	57.61	2.40	0.03

1.2 Test Graph

1.2.1 Ant1







2. Bandwidth

2.1 Test Result

2.1.1 OBW

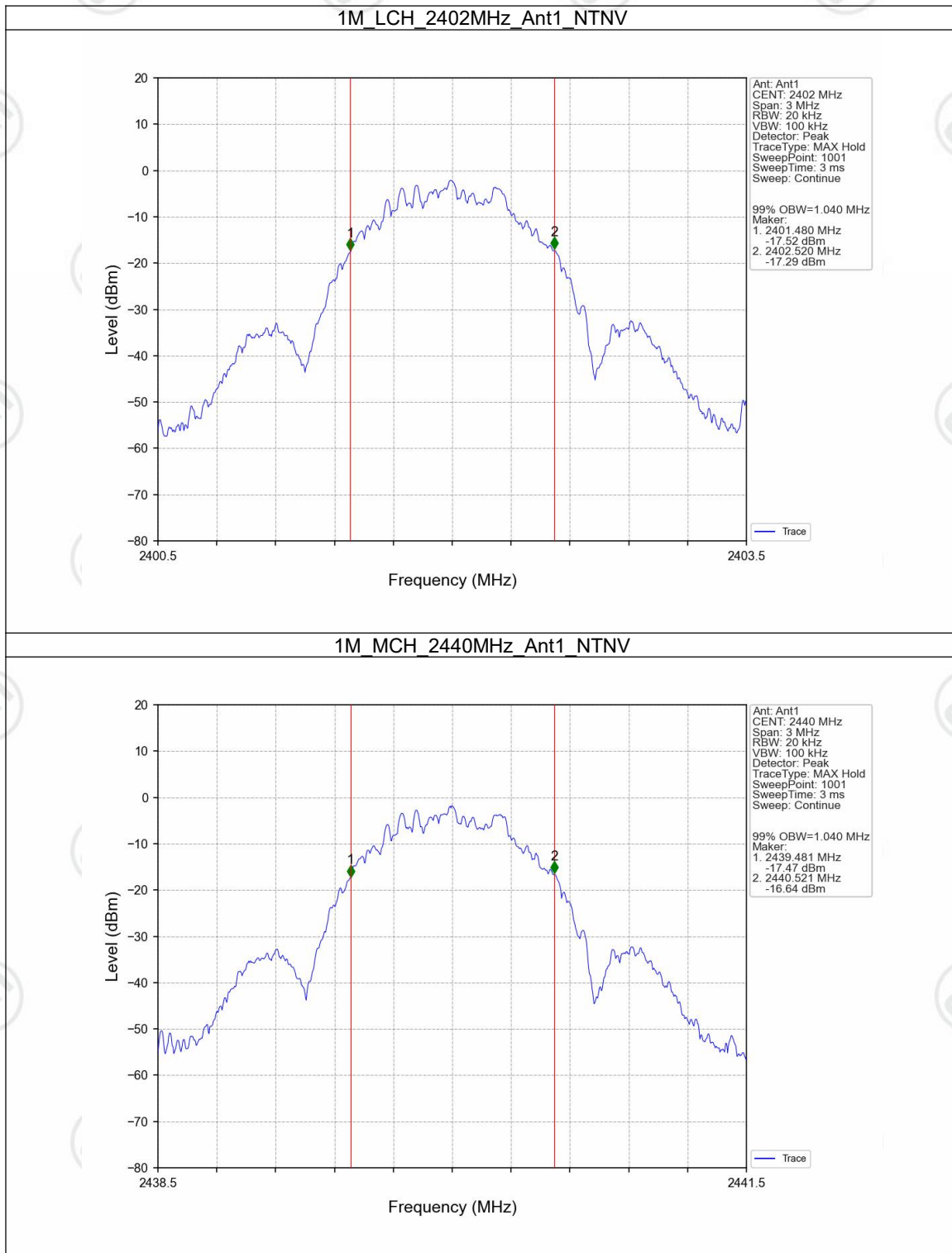
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.040	/	Pass
		2440	1	1.040	/	Pass
		2480	1	1.041	/	Pass
2M	SISO	2402	1	2.037	/	Pass
		2440	1	2.033	/	Pass
		2480	1	2.033	/	Pass

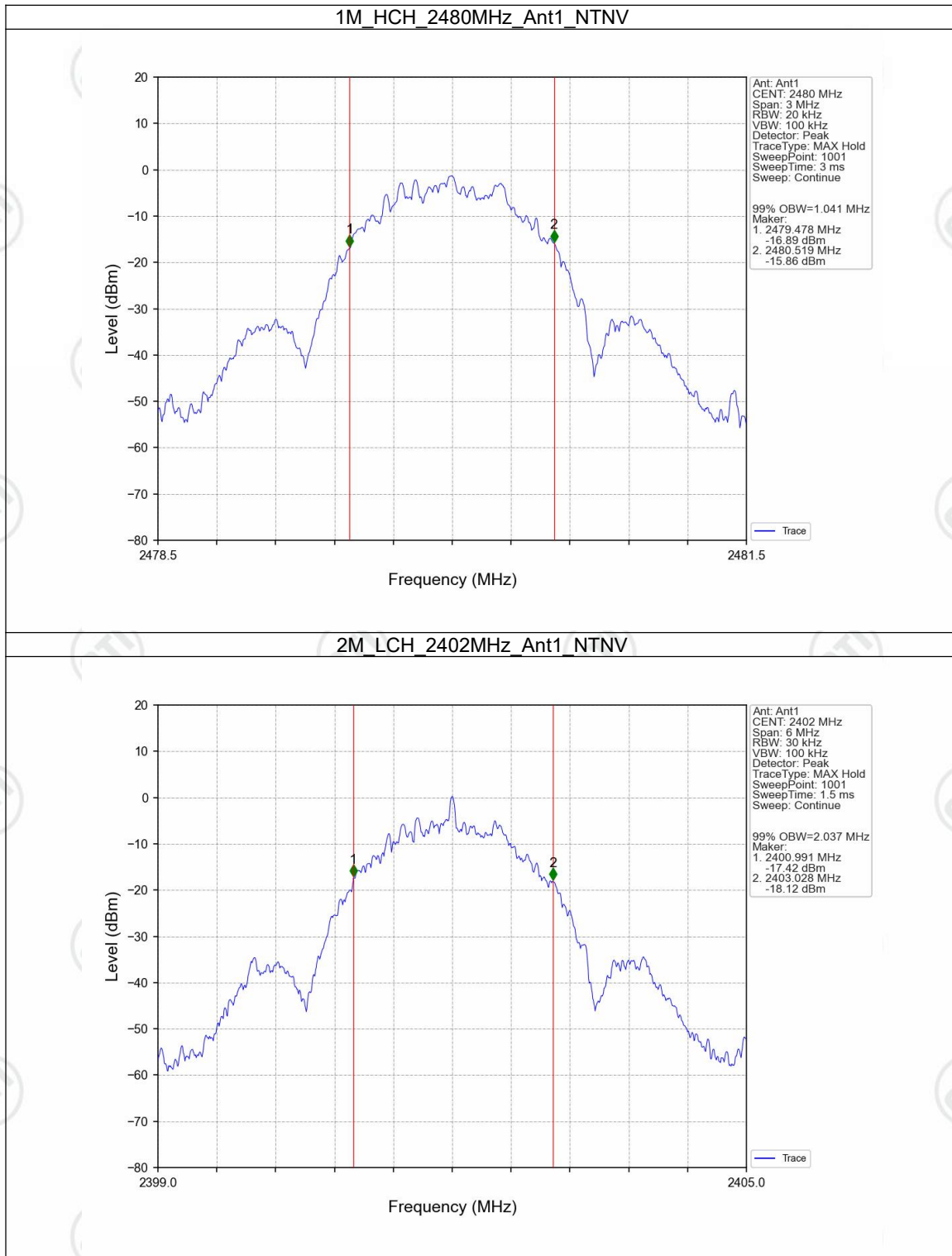
2.1.2 6dB BW

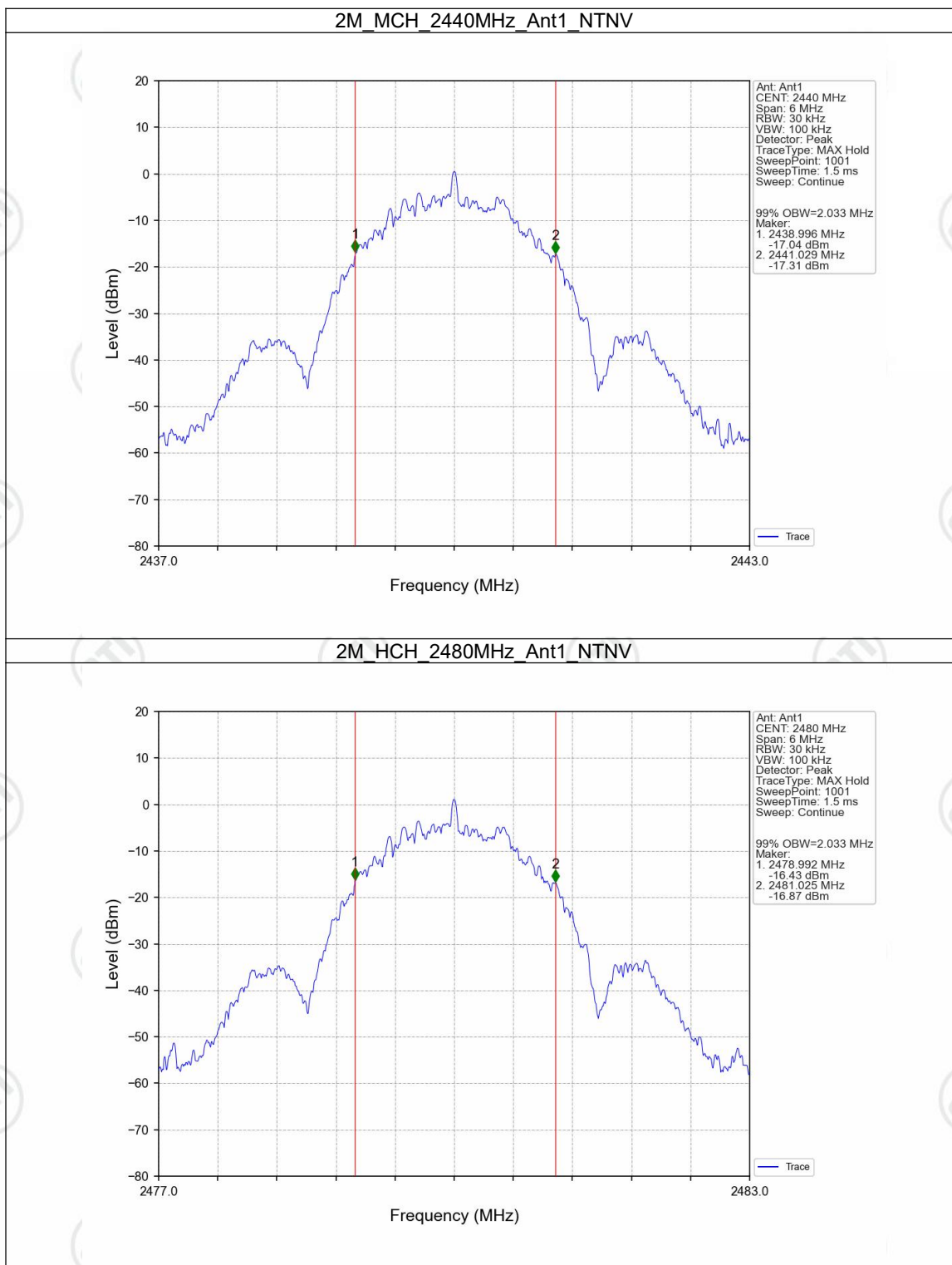
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.671	≥ 0.5	Pass
		2440	1	0.678	≥ 0.5	Pass
		2480	1	0.685	≥ 0.5	Pass
2M	SISO	2402	1	1.133	≥ 0.5	Pass
		2440	1	1.143	≥ 0.5	Pass
		2480	1	1.162	≥ 0.5	Pass

2.2 Test Graph

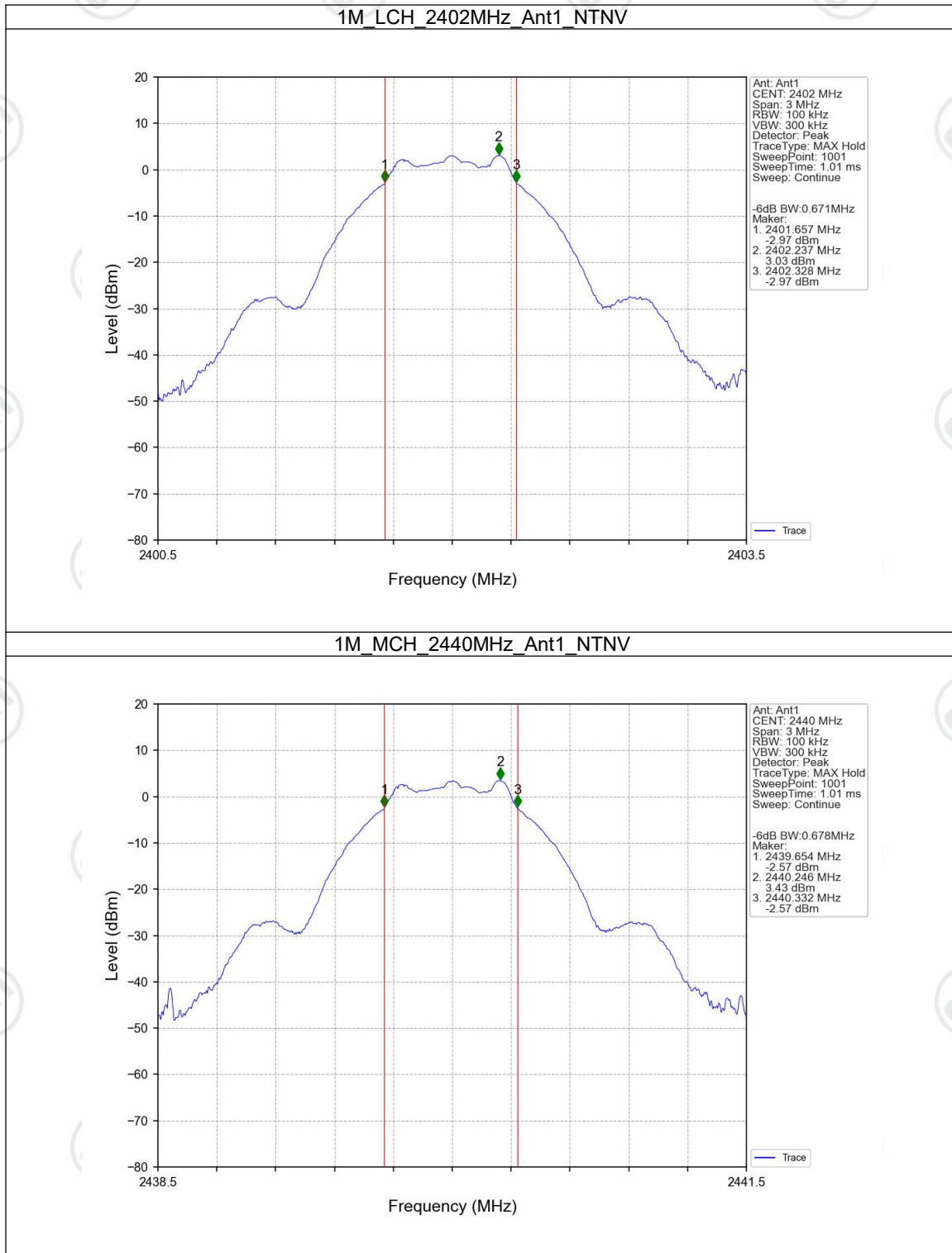
2.2.1 OBW

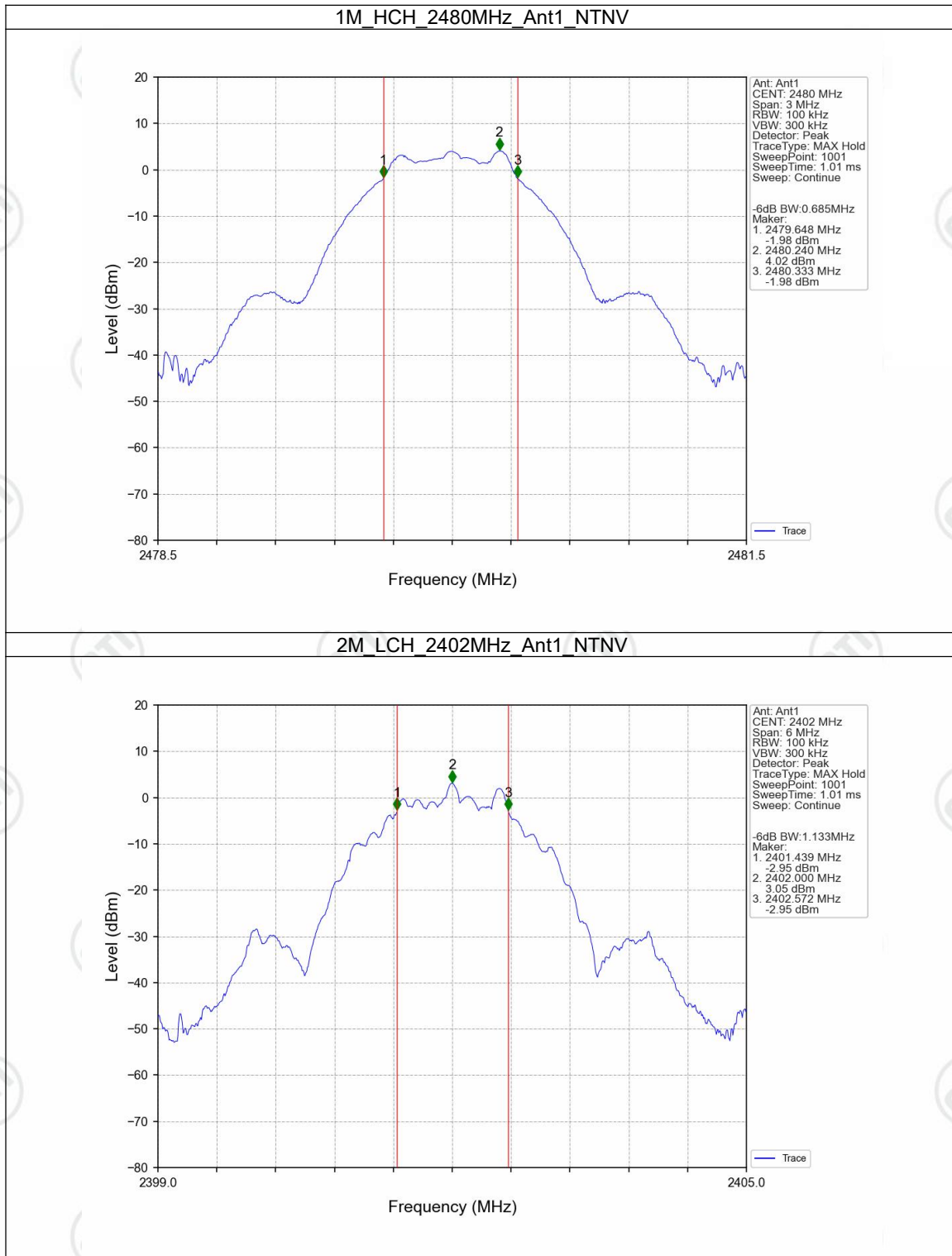


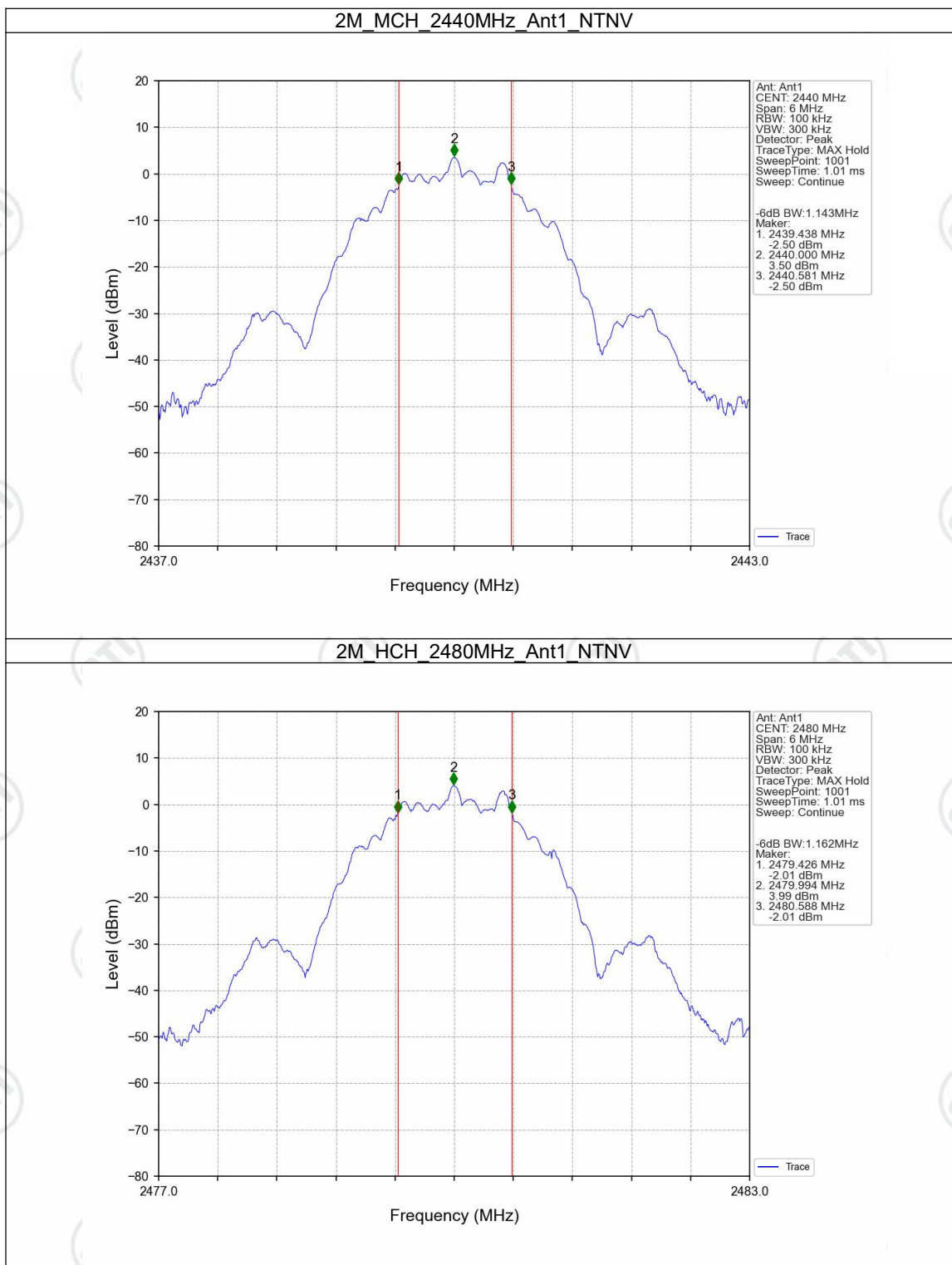




2.2.2 6dB BW







3. Maximum Conducted Output Power

3.1 Test Result

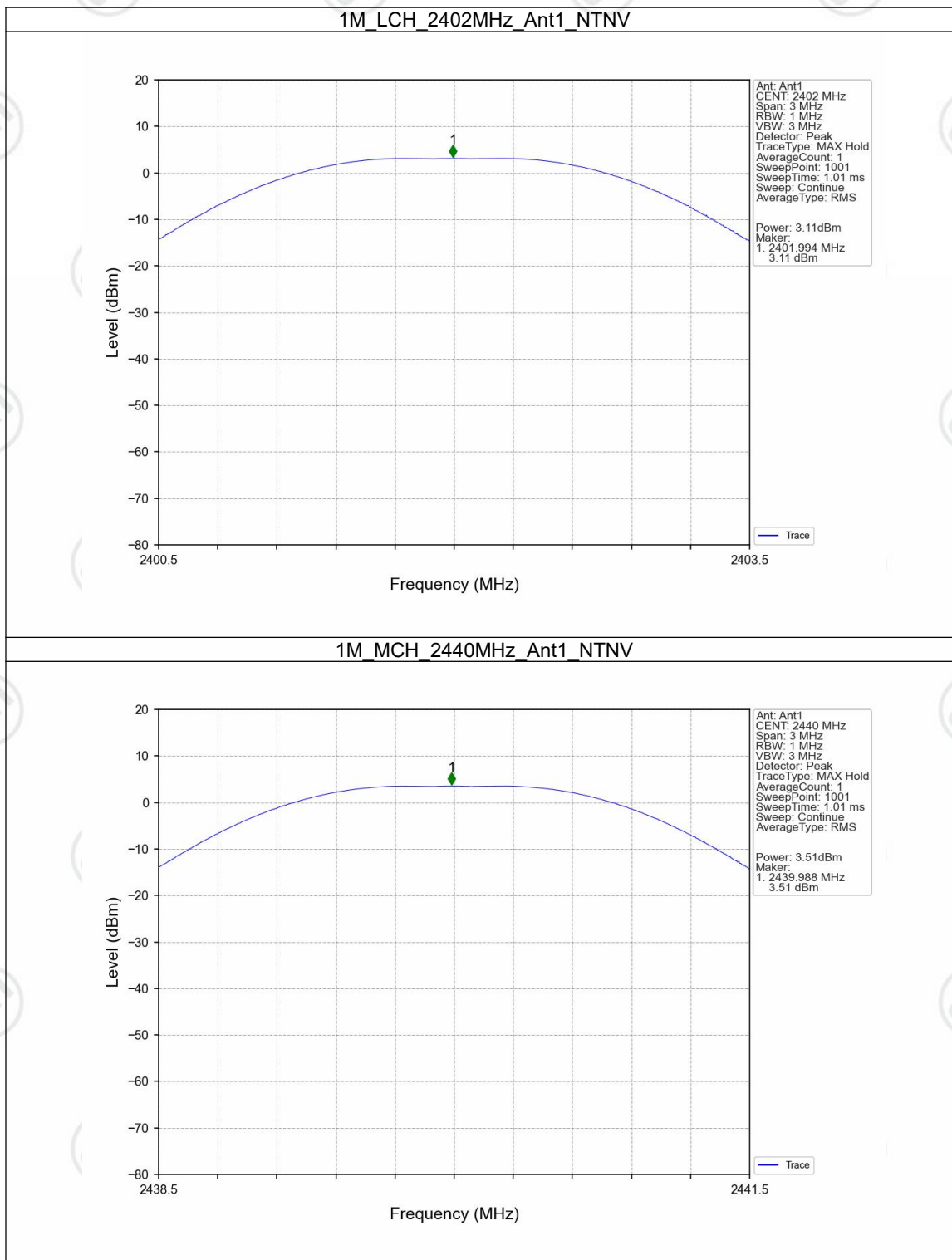
3.1.1 Power

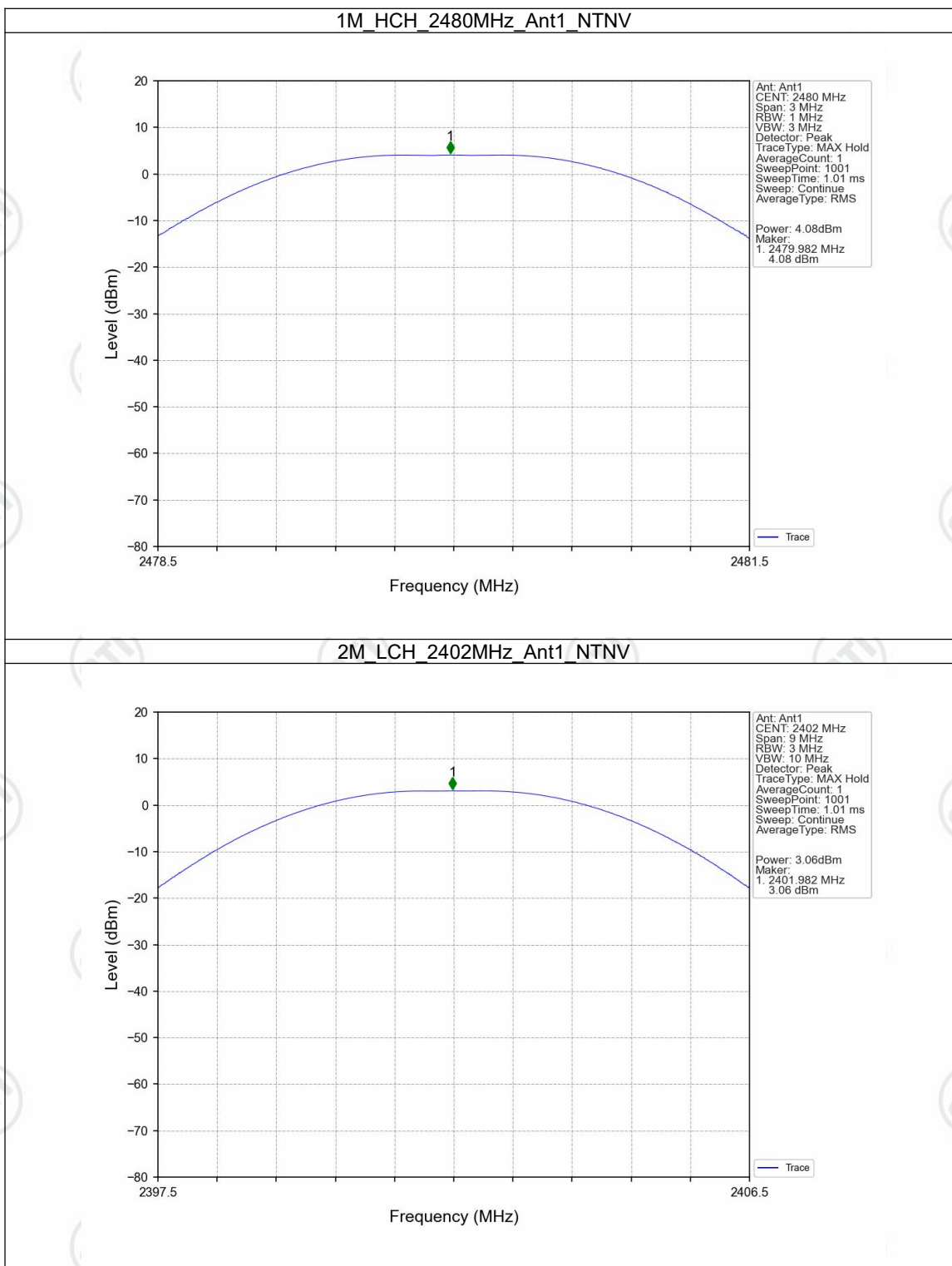
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	3.11	<=30	Pass
		2440	3.51	<=30	Pass
		2480	4.08	<=30	Pass
2M	SISO	2402	3.06	<=30	Pass
		2440	3.48	<=30	Pass
		2480	4.03	<=30	Pass

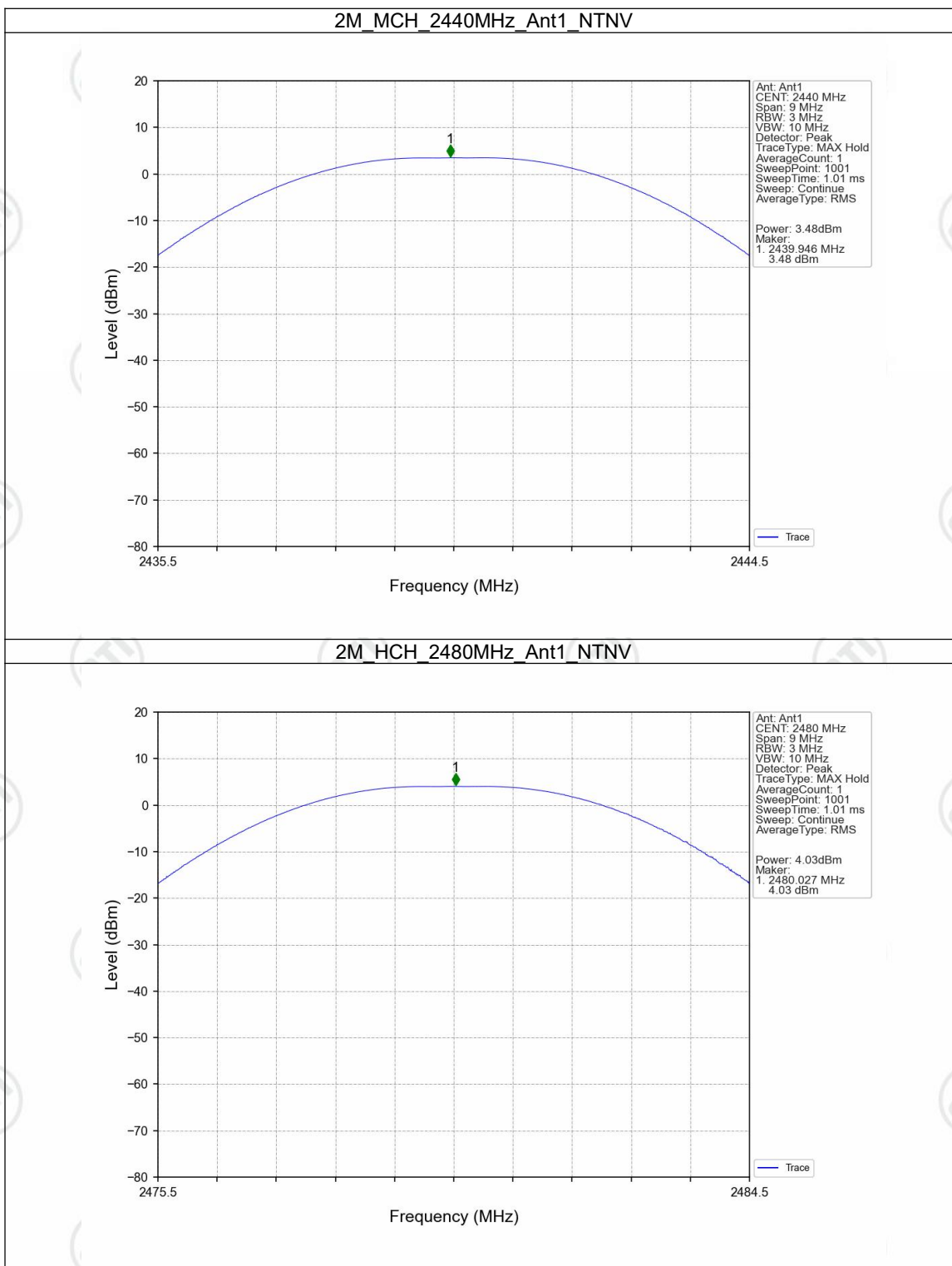
Note1: Antenna Gain: Ant1: -4.22dBi;

3.2 Test Graph

3.2.1 Power







4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit(dBm/3kHz)	
1M	SISO	2402	-13.15dBm/3kHz	<=8	Pass
		2440	-13.03dBm/3kHz	<=8	Pass
		2480	-12.14dBm/3kHz	<=8	Pass
2M	SISO	2402	-14.60dBm/3kHz	<=8	Pass
		2440	-14.27dBm/3kHz	<=8	Pass
		2480	-13.60dBm/3kHz	<=8	Pass

Note1: Antenna Gain: Ant1: -4.22dBi;

4.2 Test Graph

4.2.1 PSD

