



RF Test Report

For BTEK260416006A01E01

Project No.:	BTEK260416006A01E0101
Product Description:	21.8 °C, 62%, 101.4kPa
Test Engineer:	Zora
Test Date:	2026-06-03



Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass
Unwanted Emissions In Restricted Frequency Bands	Pass



1. Duty Cycle

1.1 Test Result

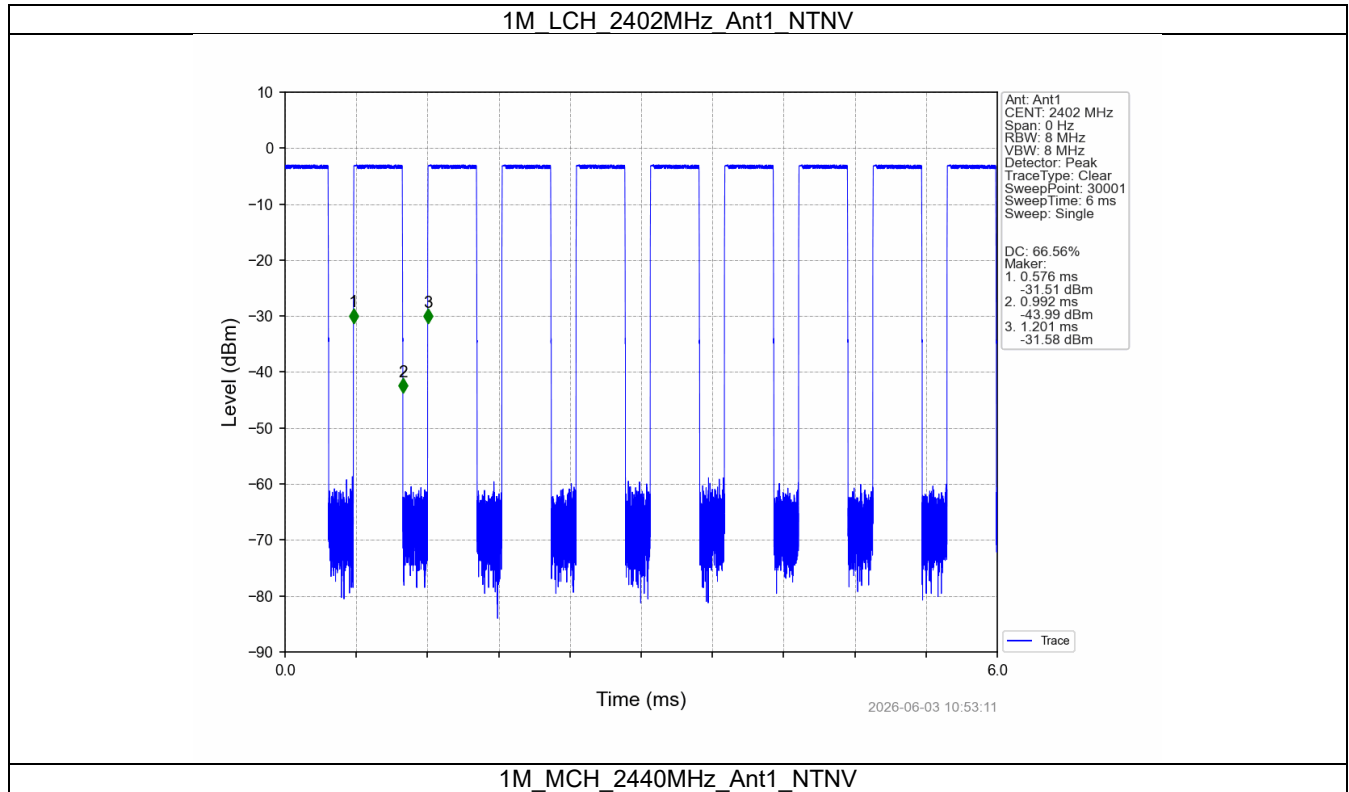
1.1.1 Ant1

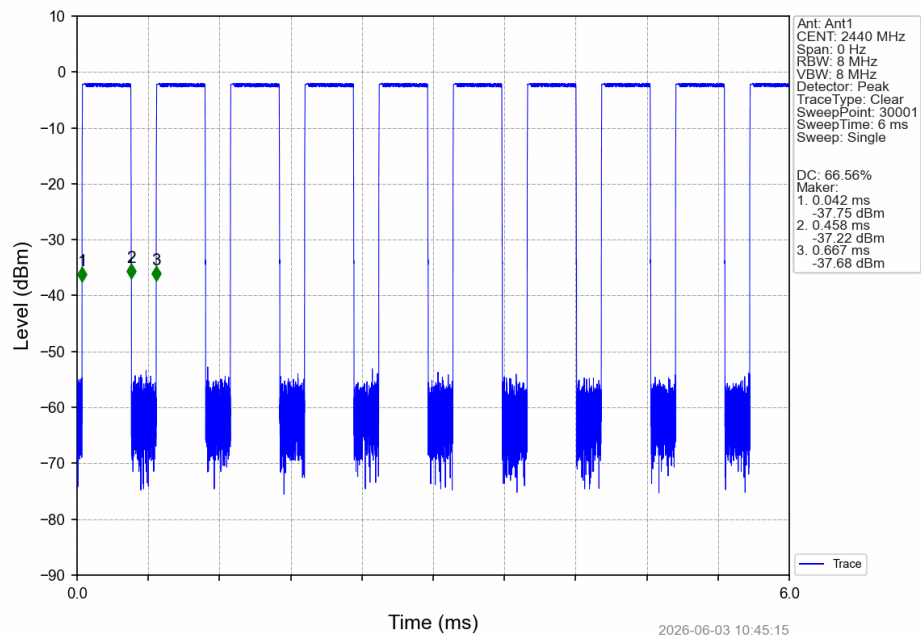
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.416	0.625	66.56	1.77	0.00
		2440	0.416	0.625	66.56	1.77	0.00
		2480	0.416	0.625	66.56	1.77	0.00



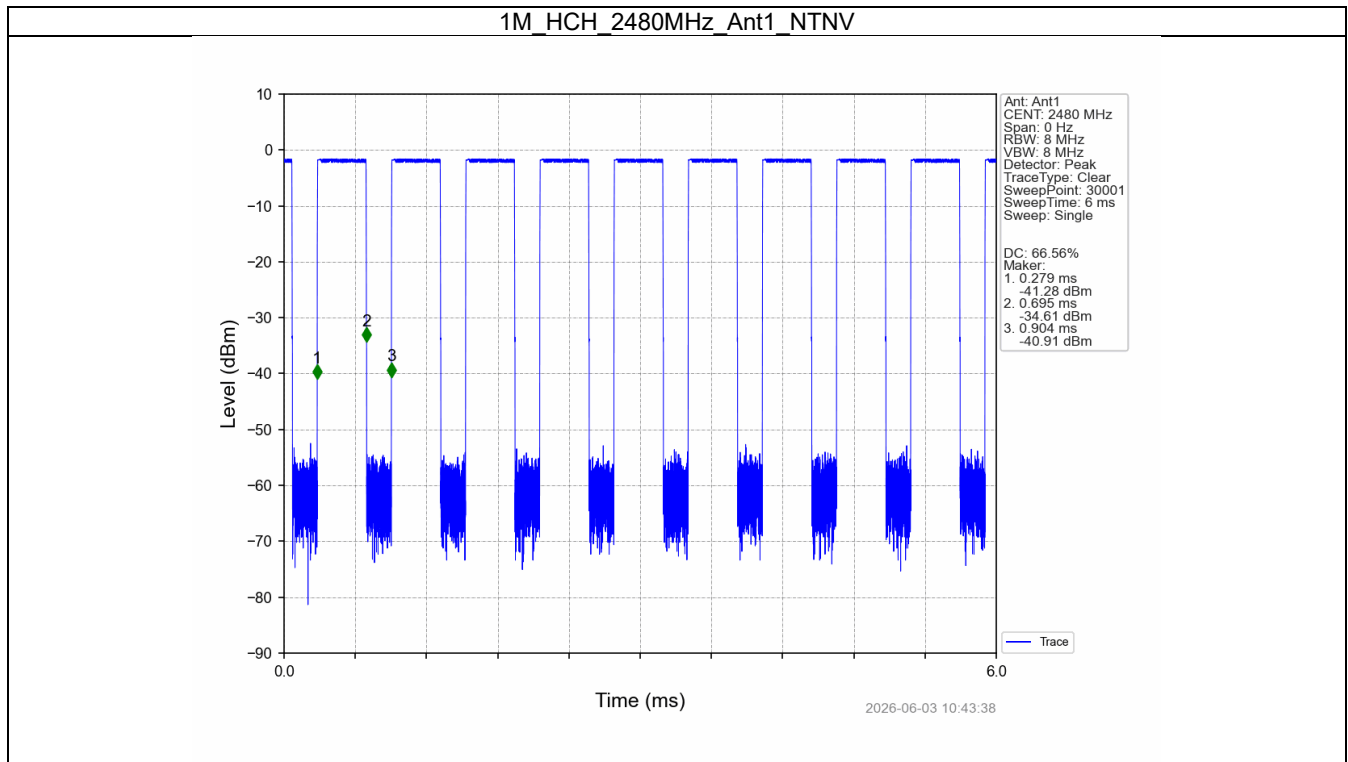
1.2 Test Graph

1.2.1 Ant1





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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	1.010	/	Pass
		2440	1	1.009	/	Pass
		2480	1	1.008	/	Pass

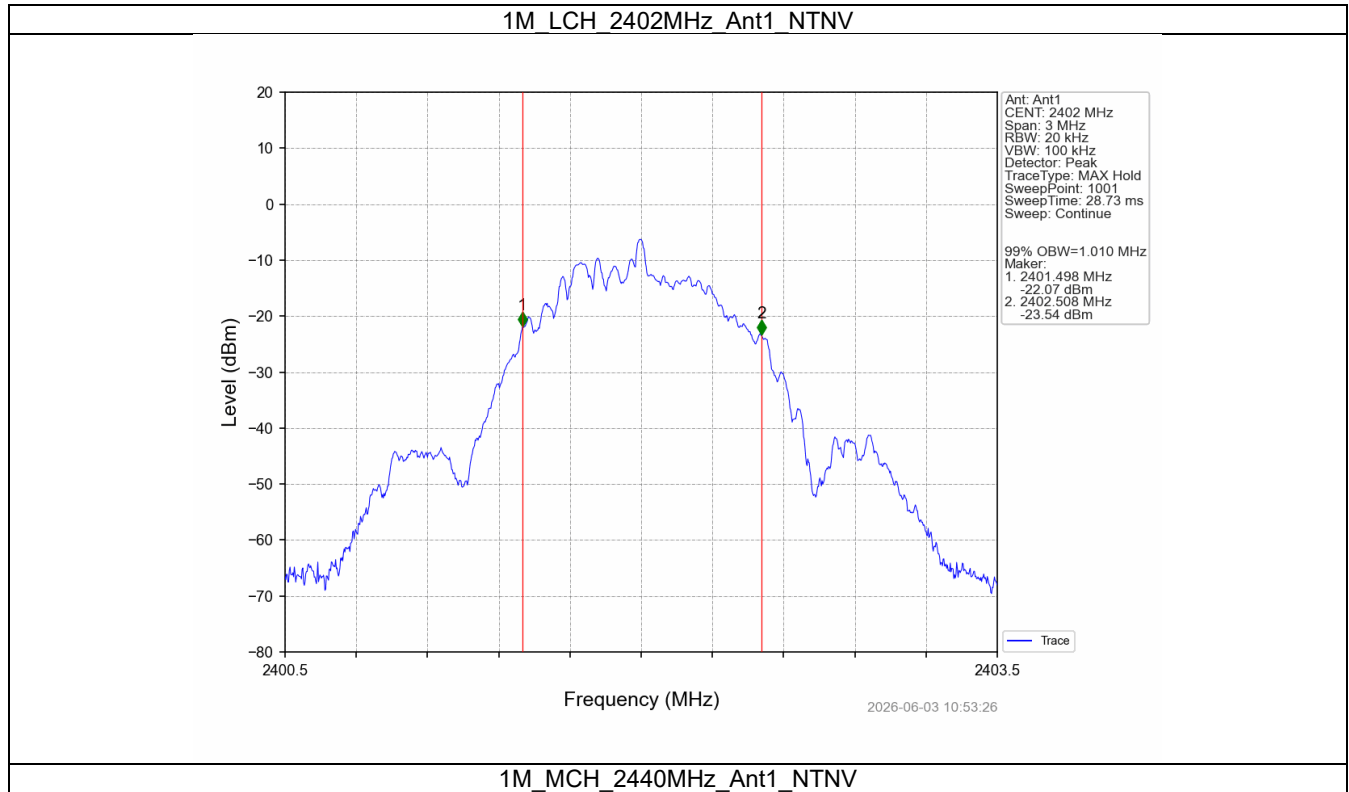
2.1.2 6dB BW

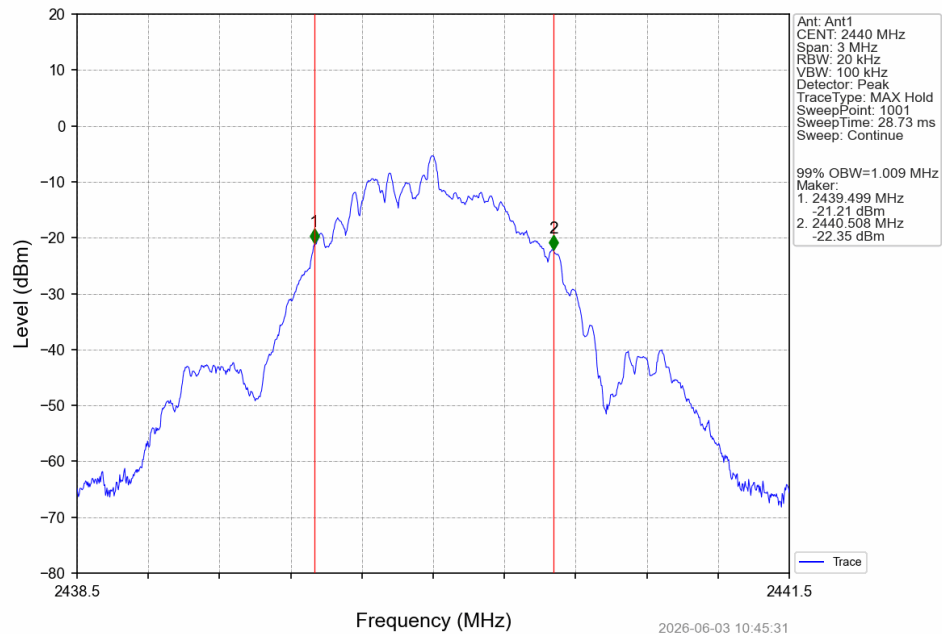
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.669	≥ 0.5	Pass
		2440	1	0.664	≥ 0.5	Pass
		2480	1	0.663	≥ 0.5	Pass

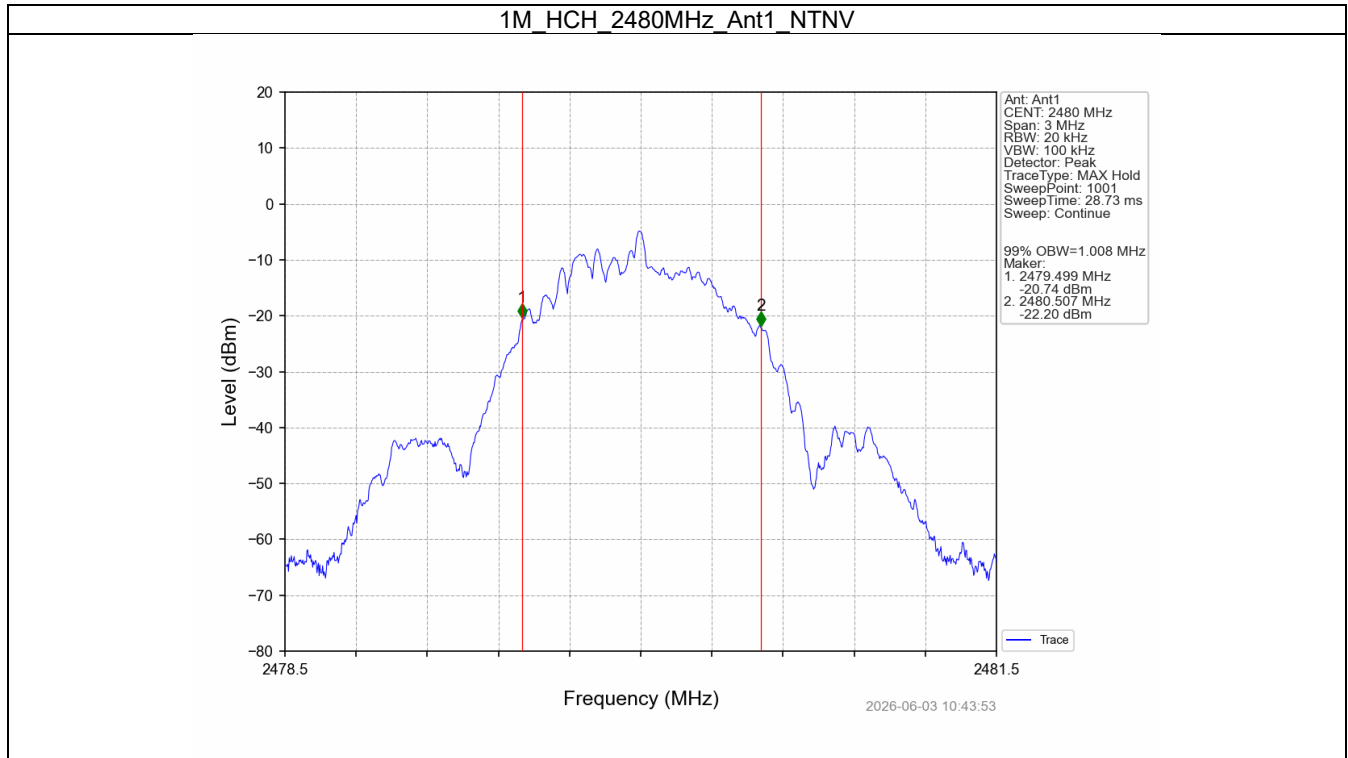


2.2 Test Graph

2.2.1 OBW

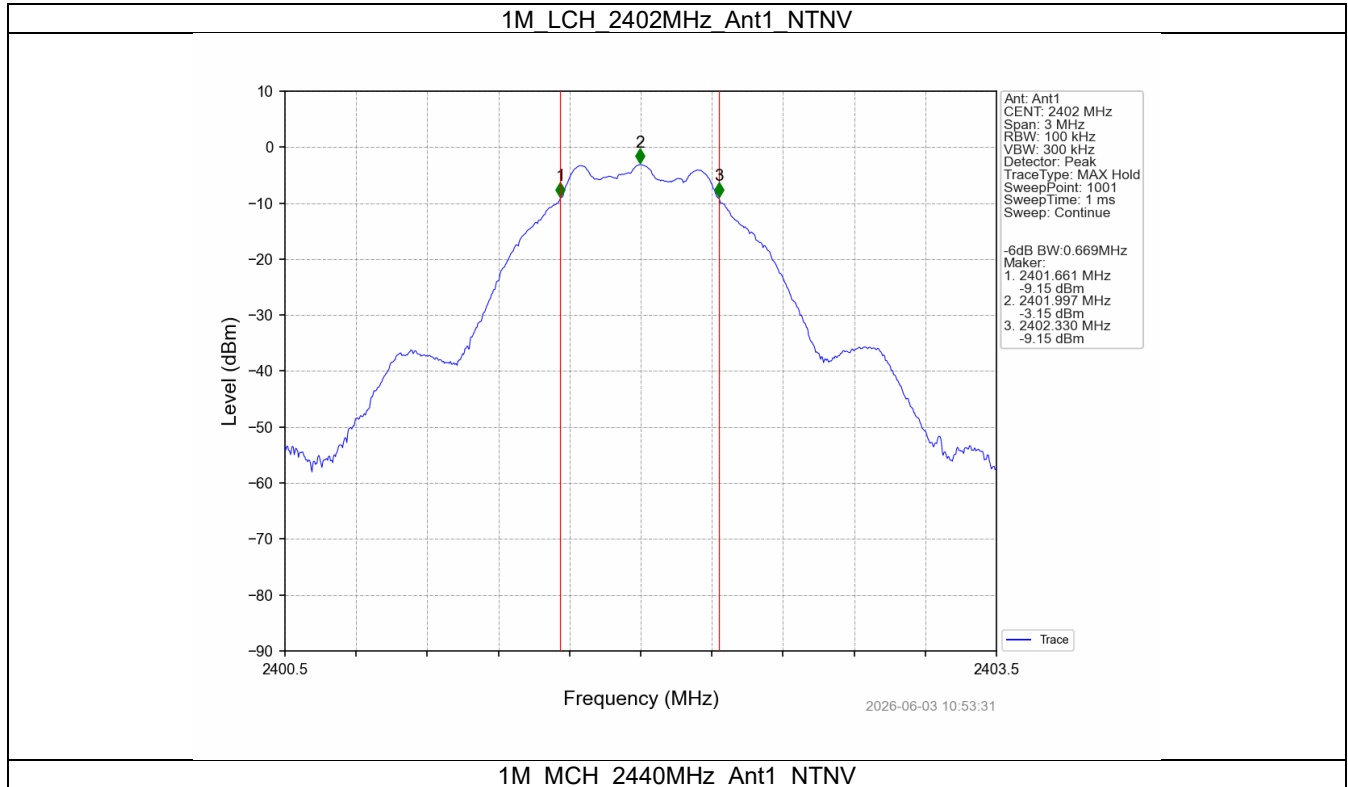


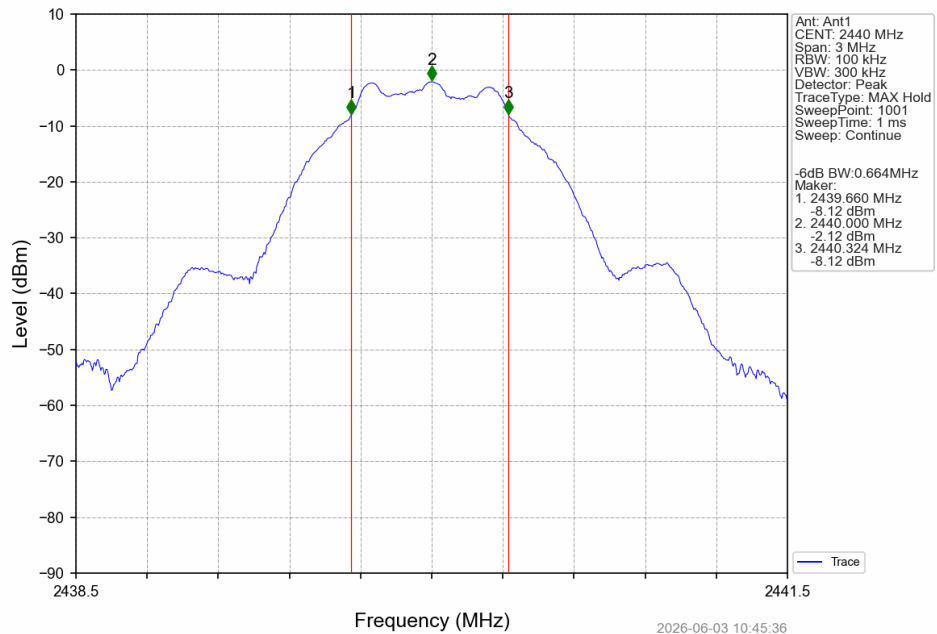


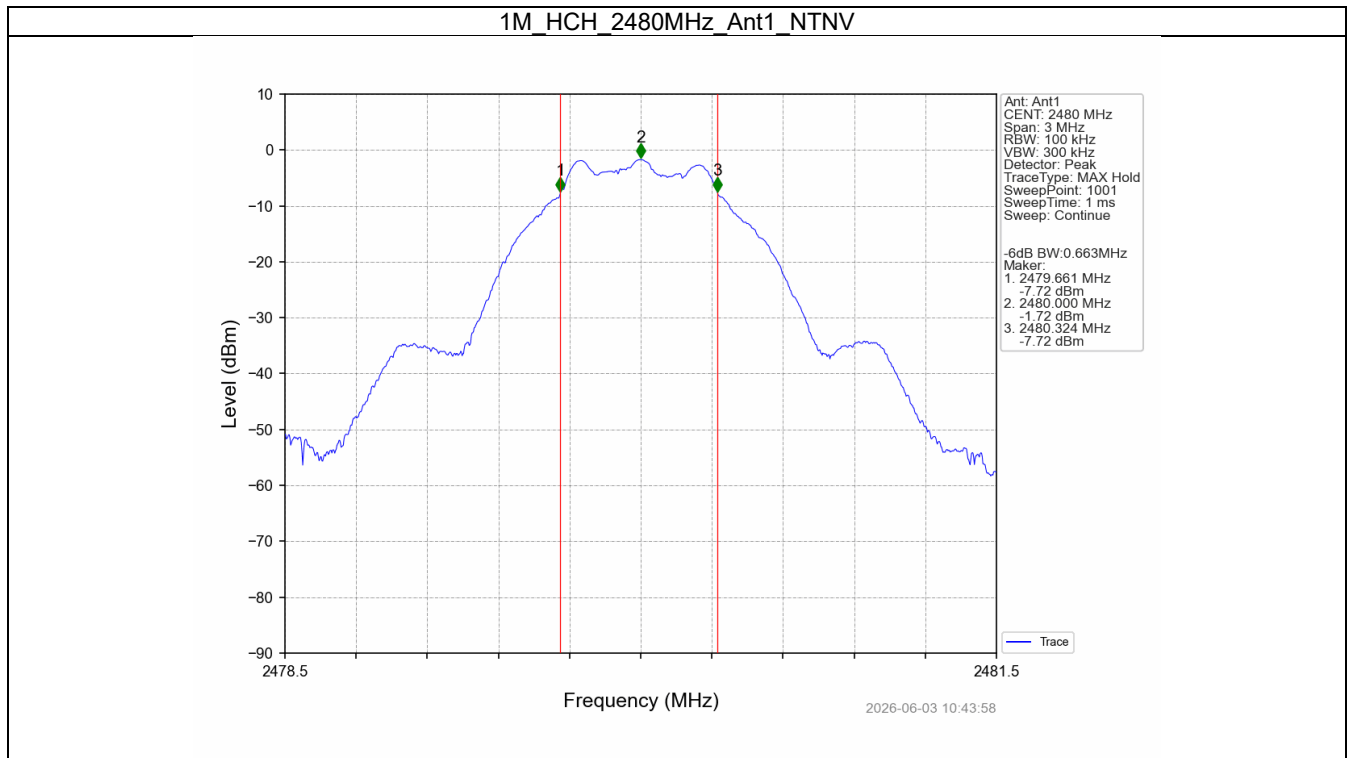




2.2.2 6dB BW









3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

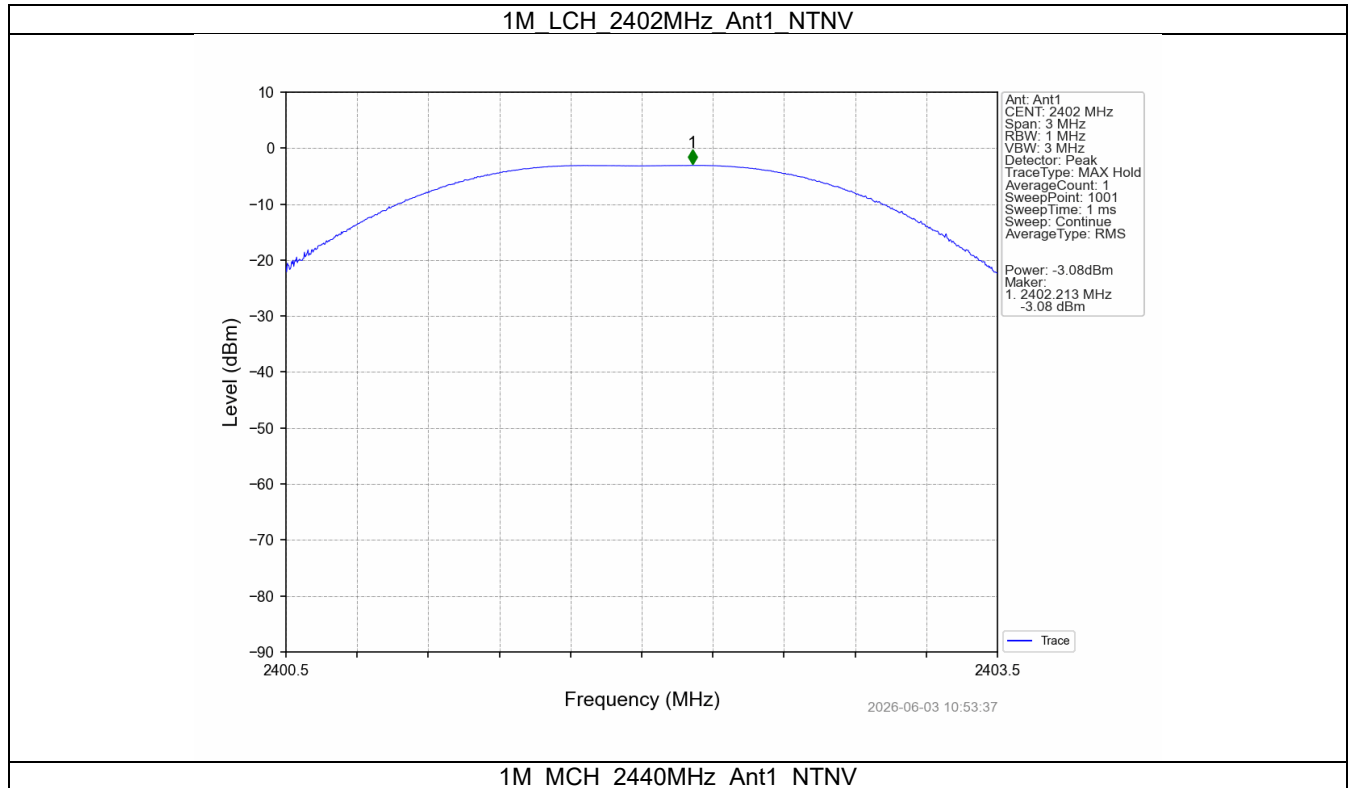
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-3.08	<=30	Pass
		2440	-2.05	<=30	Pass
		2480	-1.66	<=30	Pass

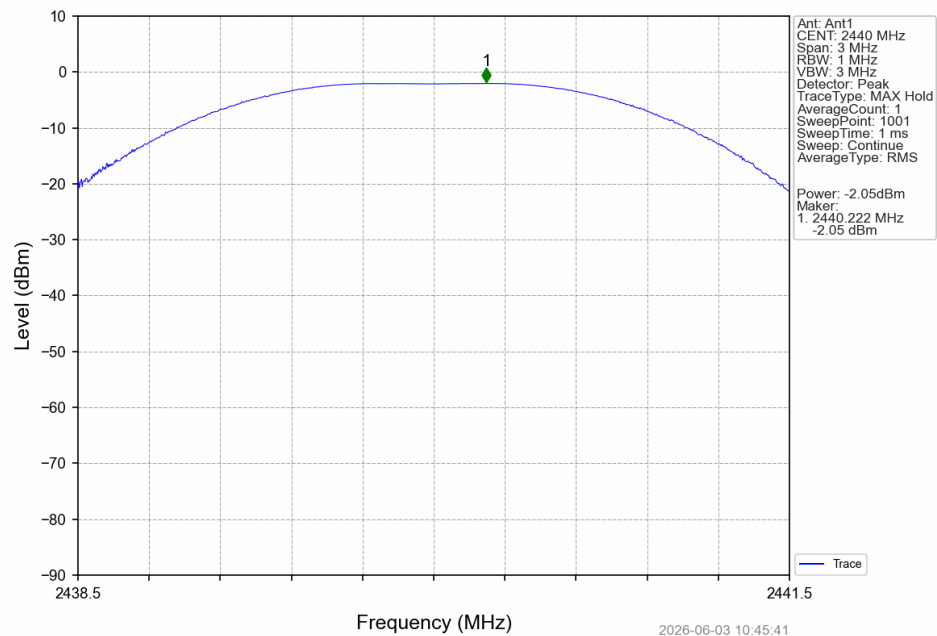
Note1: Antenna Gain: Ant1: 2.7dBi;

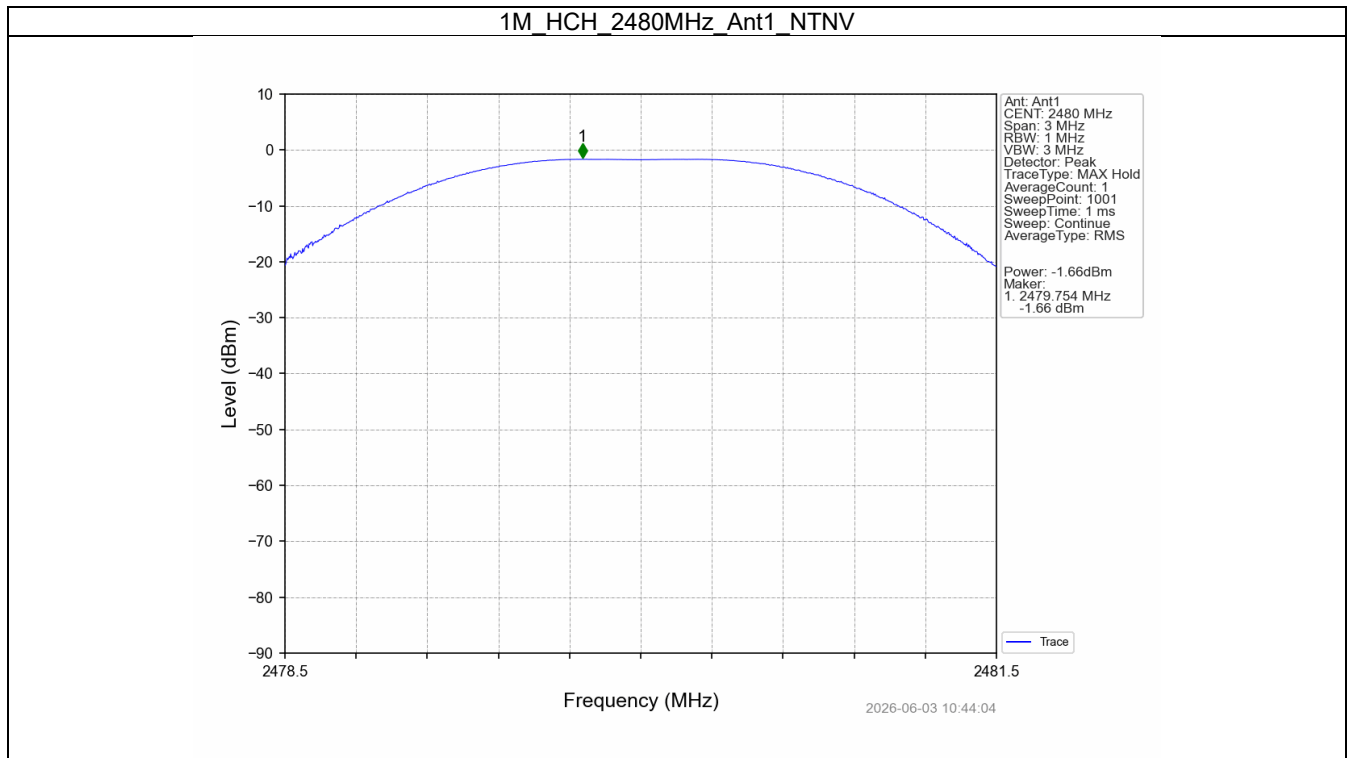


3.2 Test Graph

3.2.1 Power









4. Maximum Power Spectral Density

4.1 Test Result

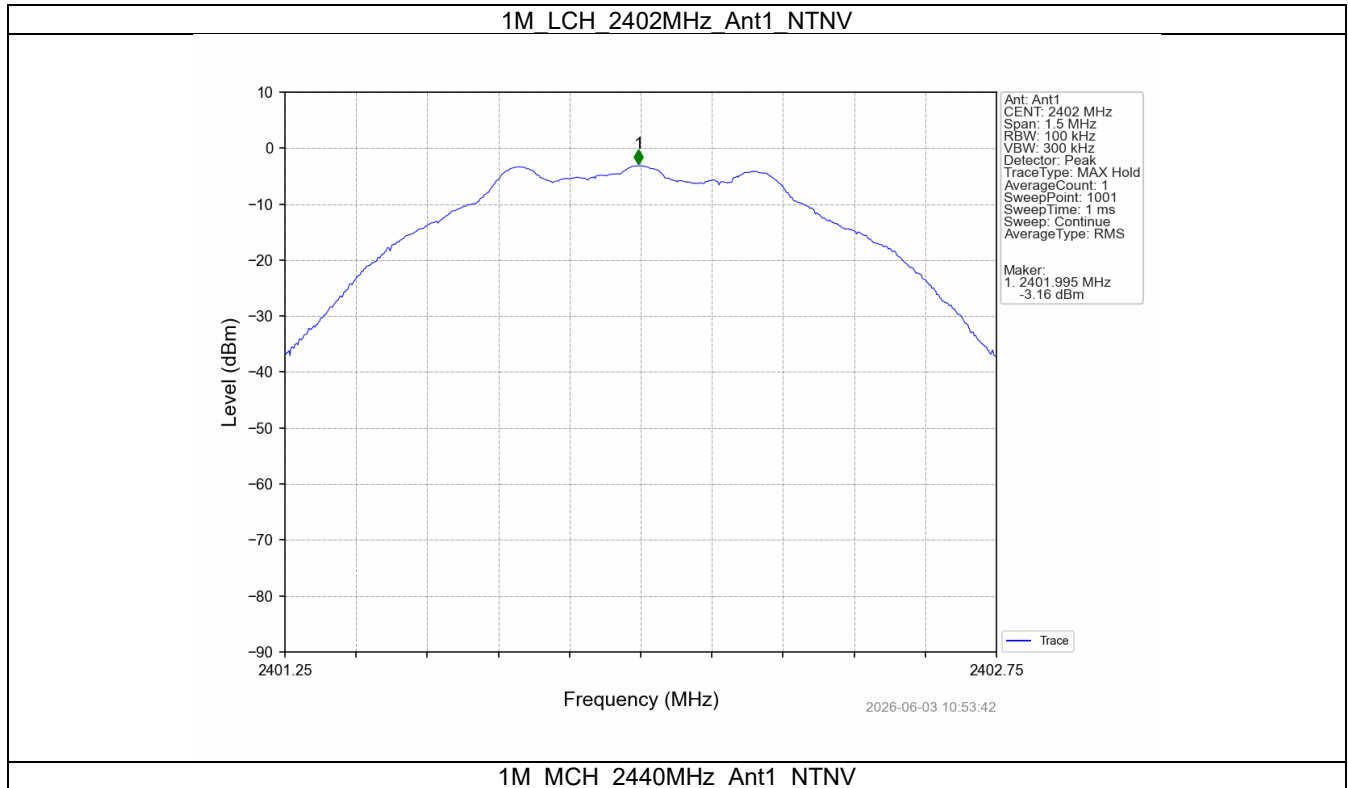
4.1.1 PSD

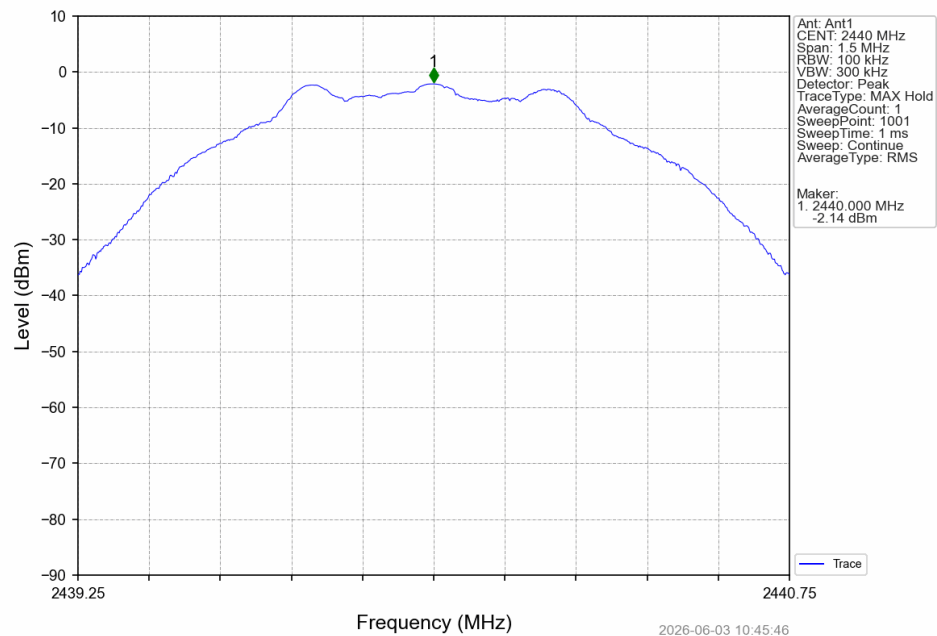
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
1M	SISO	2402	-3.16dBm/100kHz	<=8	Pass
		2440	-2.14dBm/100kHz	<=8	Pass
		2480	-1.74dBm/100kHz	<=8	Pass
Note1: Antenna Gain: Ant1: 2.7dBi;					

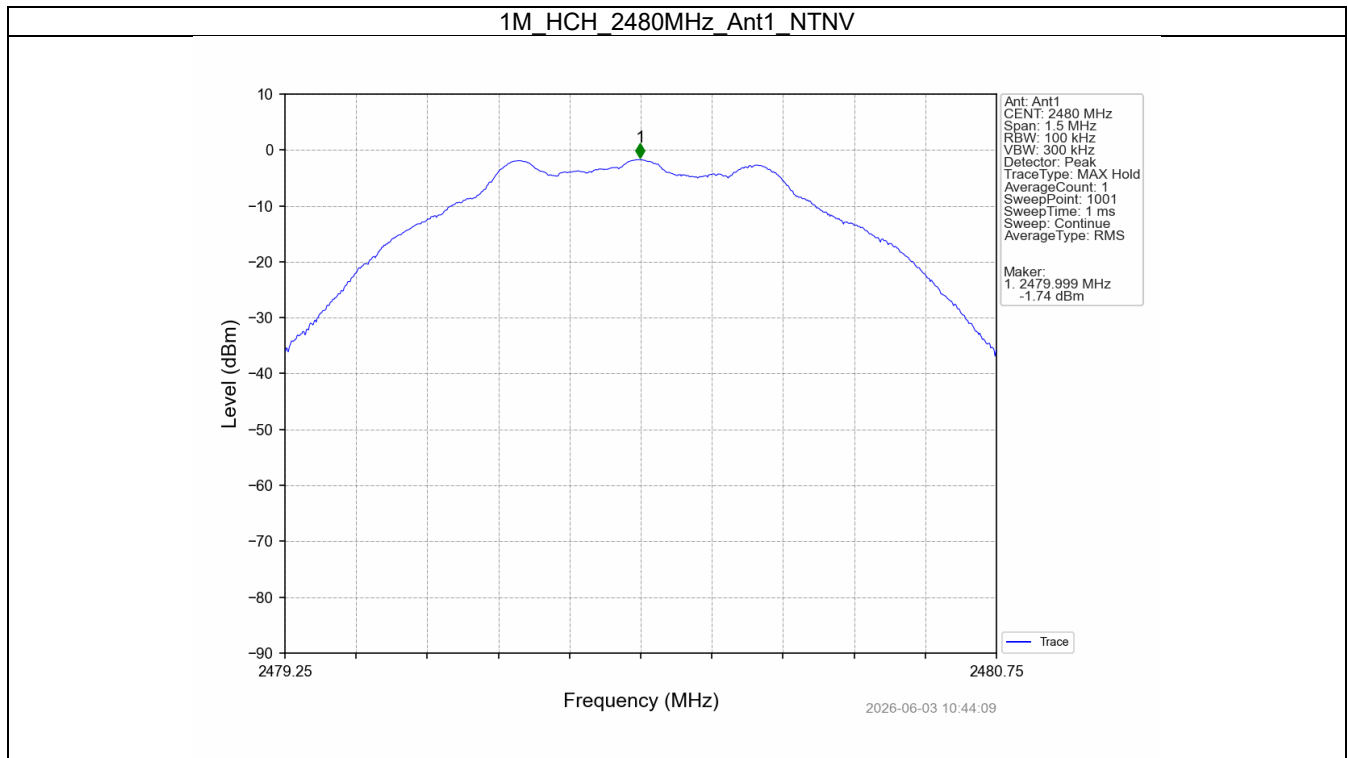


4.2 Test Graph

4.2.1 PSD









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	-3.16
		2440	1	-2.11
		2480	1	-1.74

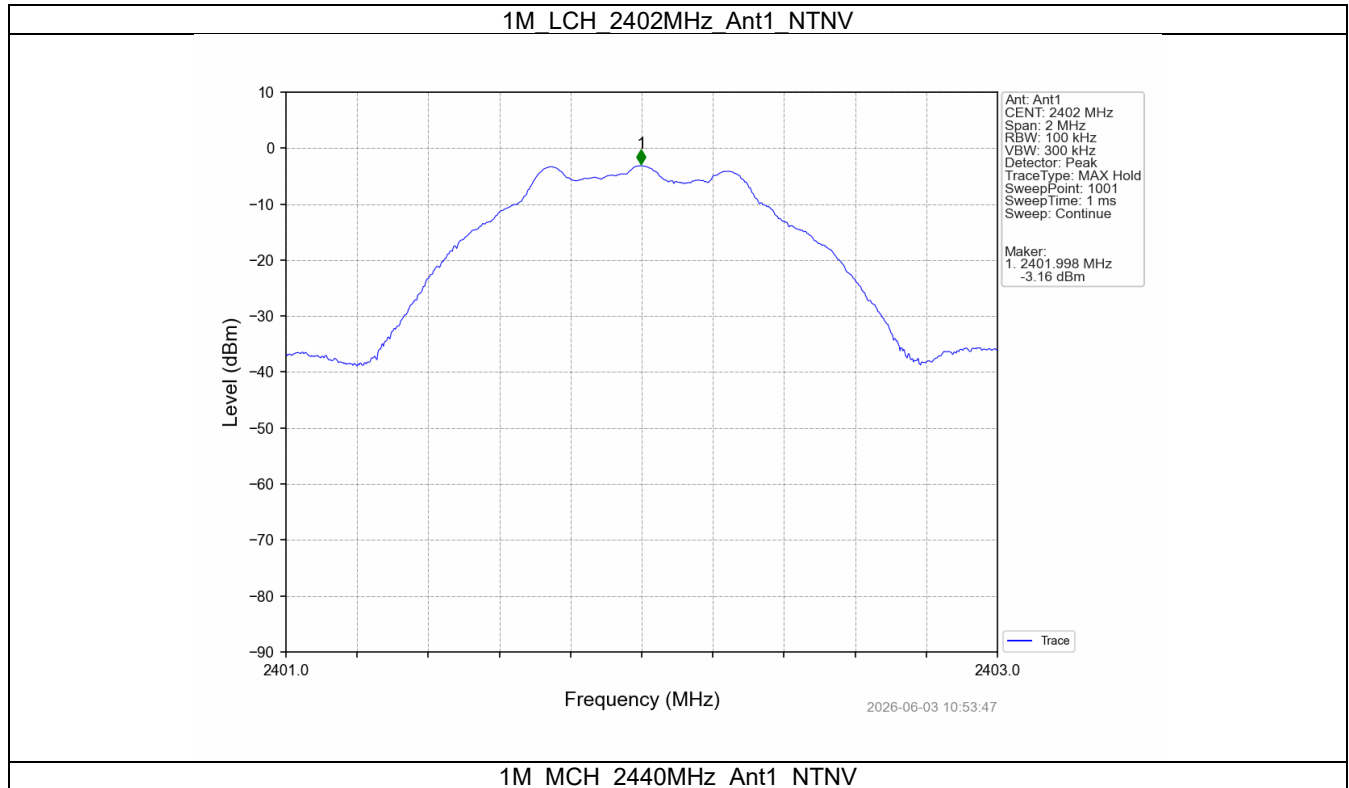
5.1.2 CSE

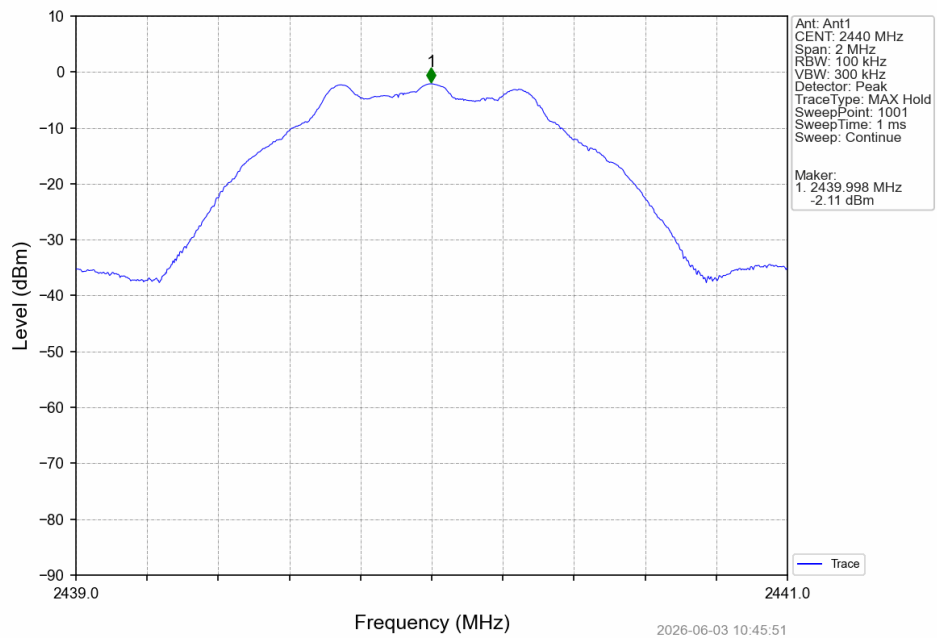
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-1.74	-21.74	Pass
		2440	1	-1.74	-21.74	Pass
		2480	1	-1.74	-21.74	Pass

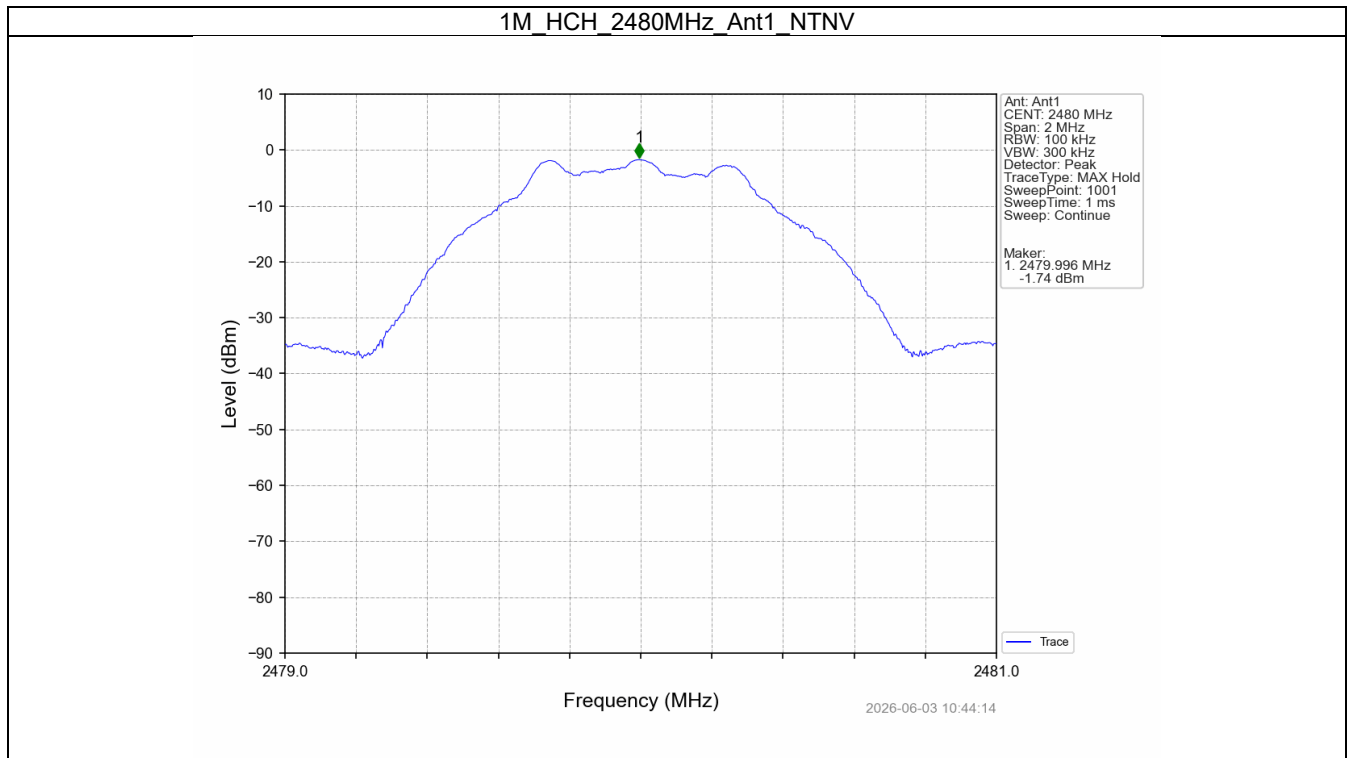


5.2 Test Graph

5.2.1 Ref

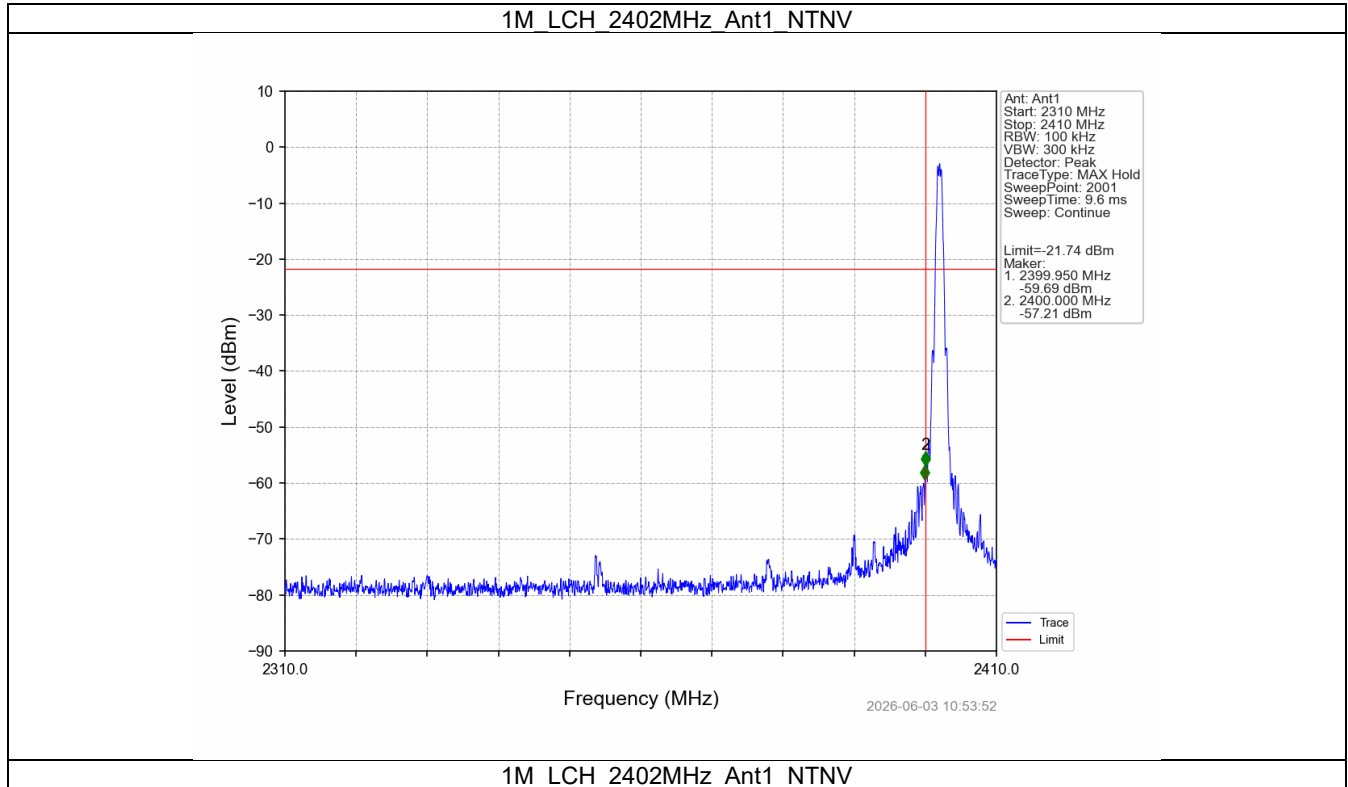


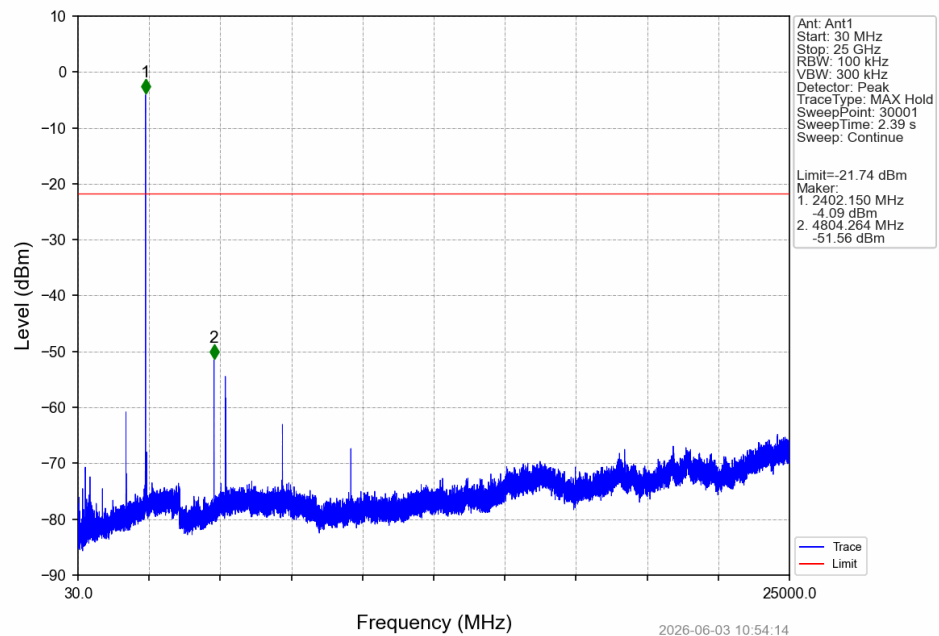


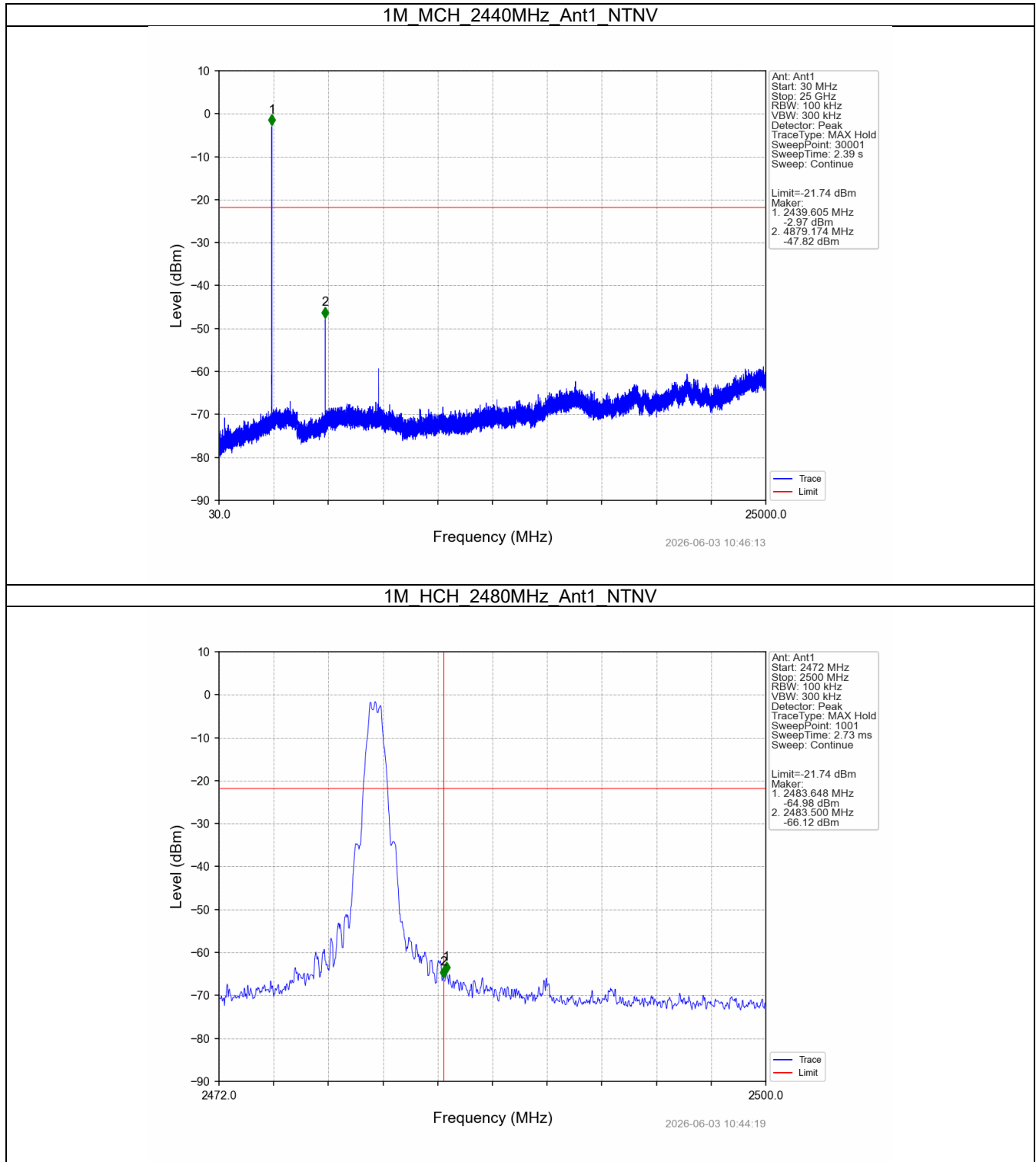


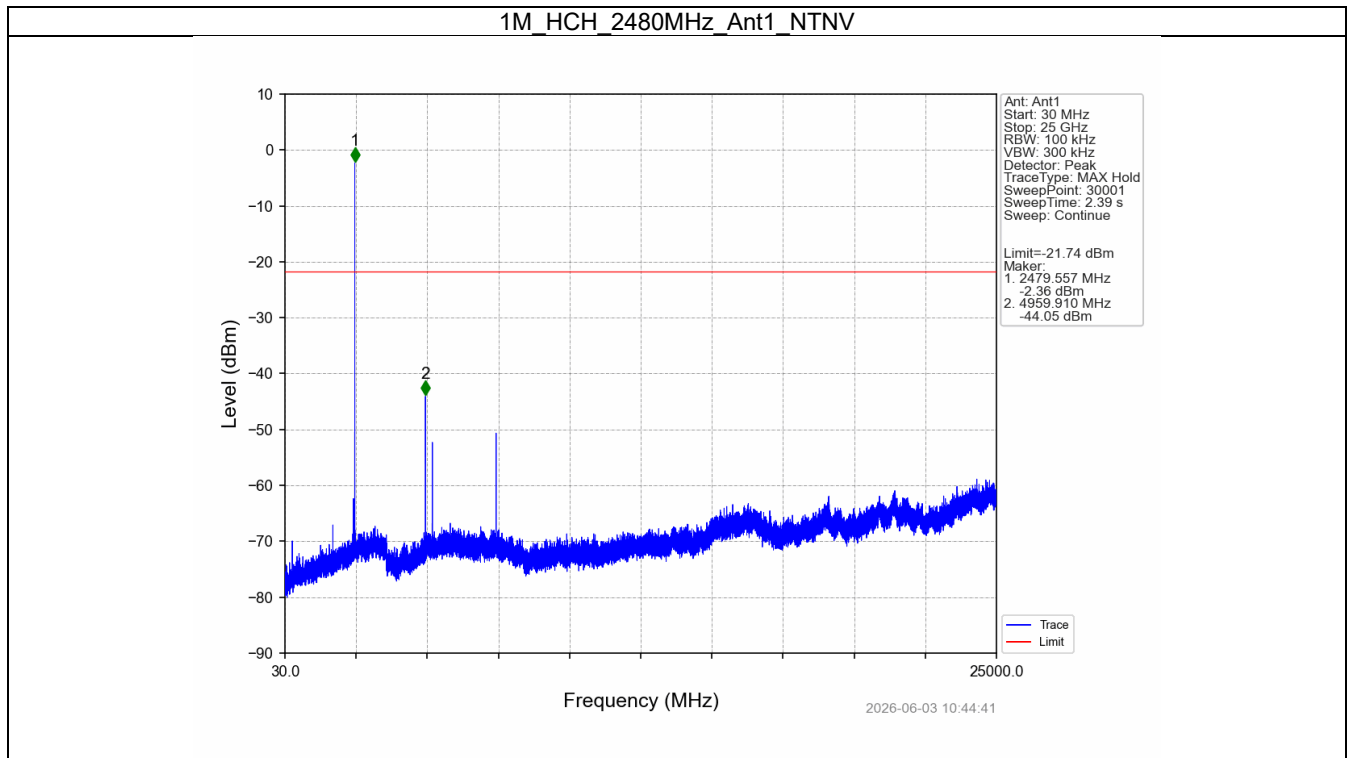


5.2.2 CSE











6. Unwanted Emissions In Restricted Frequency Bands

6.1 Test Result

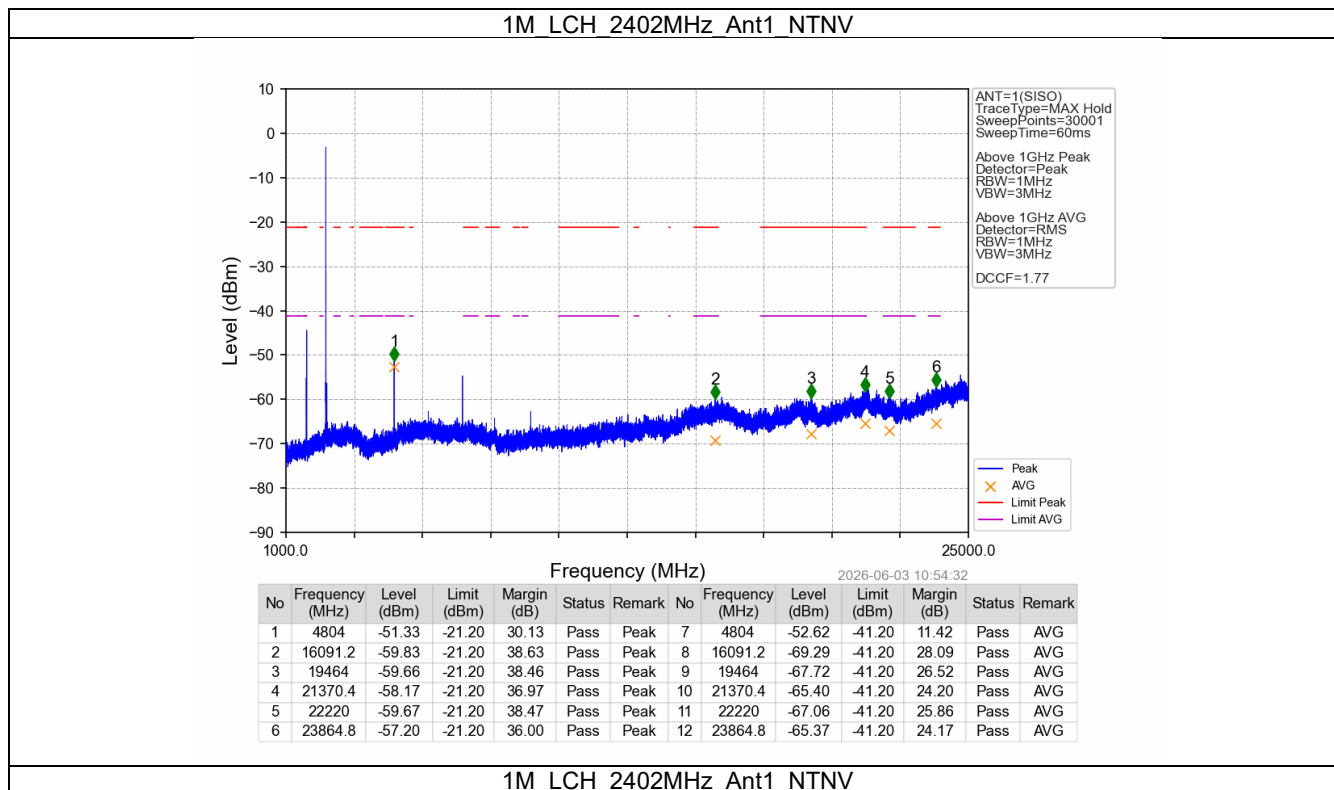
6.1.1 RSE

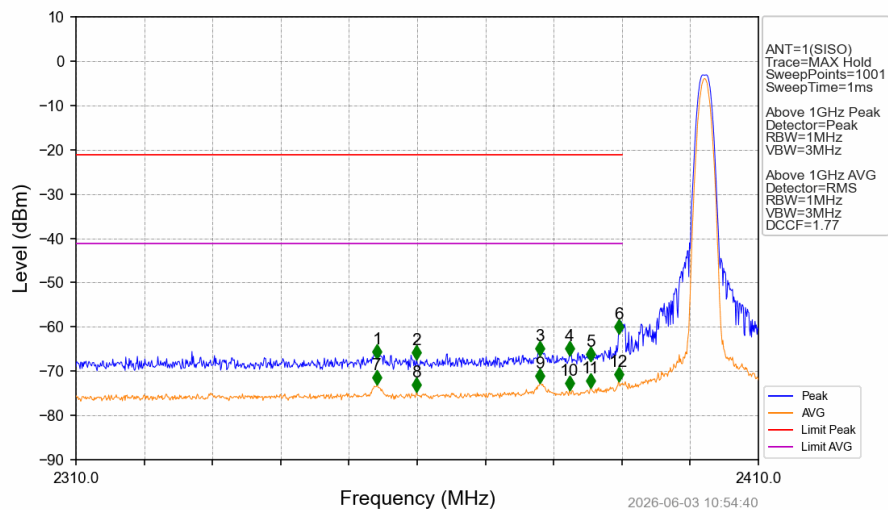
Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
1M	SISO	2402	1	Refer To Test Graph		Pass
		2440	1	Refer To Test Graph		Pass
		2480	1	Refer To Test Graph		Pass



6.2 Test Graph

6.2.1 RSE

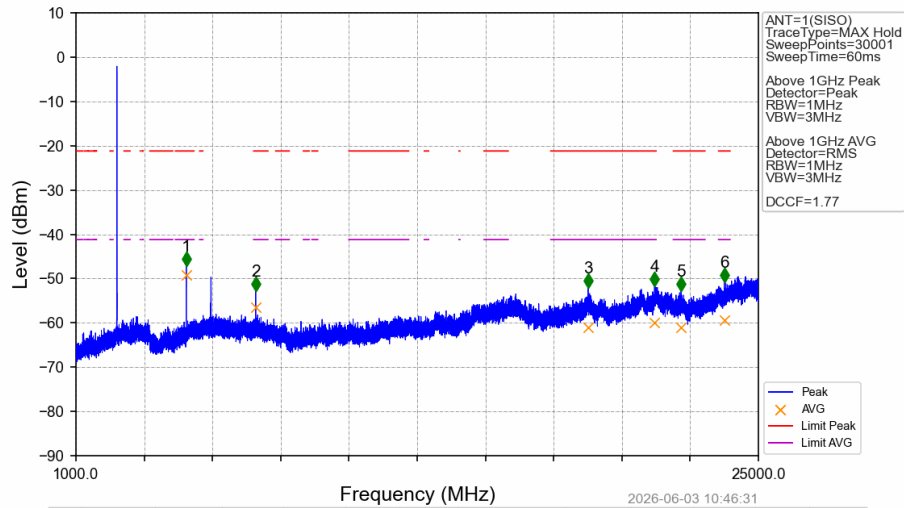




Frequency (MHz)														2026-06-03 10:54:40			
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark				
1	2354.100	-67.21	-21.20	46.01	Pass	Peak	7	2354.100	-73.09	-41.20	31.89	Pass	AVG				
2	2359.900	-67.43	-21.20	46.23	Pass	Peak	8	2359.900	-74.71	-41.20	33.51	Pass	AVG				
3	2378.000	-66.40	-21.20	45.20	Pass	Peak	9	2378.000	-72.67	-41.20	31.47	Pass	AVG				
4	2382.300	-66.49	-21.20	45.29	Pass	Peak	10	2382.300	-74.32	-41.20	33.12	Pass	AVG				
5	2385.400	-67.72	-21.20	46.52	Pass	Peak	11	2385.400	-73.76	-41.20	32.56	Pass	AVG				
6	2389.500	-61.57	-21.20	40.37	Pass	Peak	12	2389.500	-72.23	-41.20	31.03	Pass	AVG				

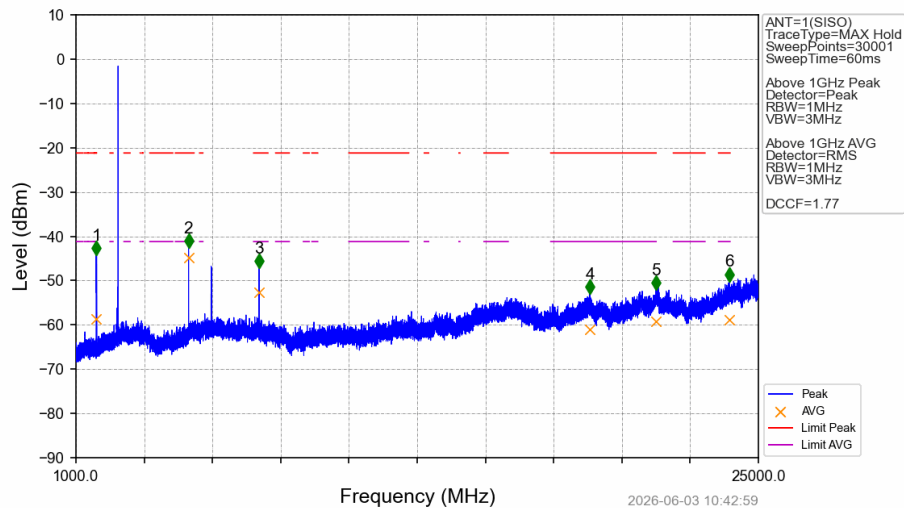


1M_MCH_2440MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4880.8	-47.10	-21.20	25.90	Pass	Peak	7	4880.8	-49.13	-41.20	7.93	Pass	AVG
2	7320.8	-52.72	-21.20	31.52	Pass	Peak	8	7320.8	-56.48	-41.20	15.28	Pass	AVG
3	19011.2	-52.13	-21.20	30.93	Pass	Peak	9	19011.2	-60.98	-41.20	19.78	Pass	AVG
4	21347.2	-51.72	-21.20	30.52	Pass	Peak	10	21347.2	-59.86	-41.20	18.66	Pass	AVG
5	22279.2	-52.76	-21.20	31.56	Pass	Peak	11	22279.2	-60.99	-41.20	19.79	Pass	AVG
6	23803.2	-50.73	-21.20	29.53	Pass	Peak	12	23803.2	-59.37	-41.20	18.17	Pass	AVG

1M_HCH_2480MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	1719.2	-44.21	-21.20	23.01	Pass	Peak	7	1719.2	-58.75	-41.20	17.55	Pass	AVG
2	4960	-42.59	-21.20	21.39	Pass	Peak	8	4960	-44.81	-41.20	3.61	Pass	AVG
3	7440.8	-47.22	-21.20	26.02	Pass	Peak	9	7440.8	-52.68	-41.20	11.48	Pass	AVG
4	19072.8	-53.00	-21.20	31.80	Pass	Peak	10	19072.8	-61.05	-41.20	19.85	Pass	AVG
5	21392	-52.01	-21.20	30.81	Pass	Peak	11	21392	-59.30	-41.20	18.10	Pass	AVG
6	23976.8	-50.15	-21.20	28.95	Pass	Peak	12	23976.8	-58.84	-41.20	17.64	Pass	AVG

