



Shenzhen BANTEK Testing Co., Ltd.

Report No.: BTEK260506003A01E0101

RF Test Report

For BTEK260506003A01E01

Project No.:	BTEK260506003A01E01
Product Description:	22.1℃, 64%, 101.3kPa
Test Engineer:	Zora
Test Date:	2026-05-15



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

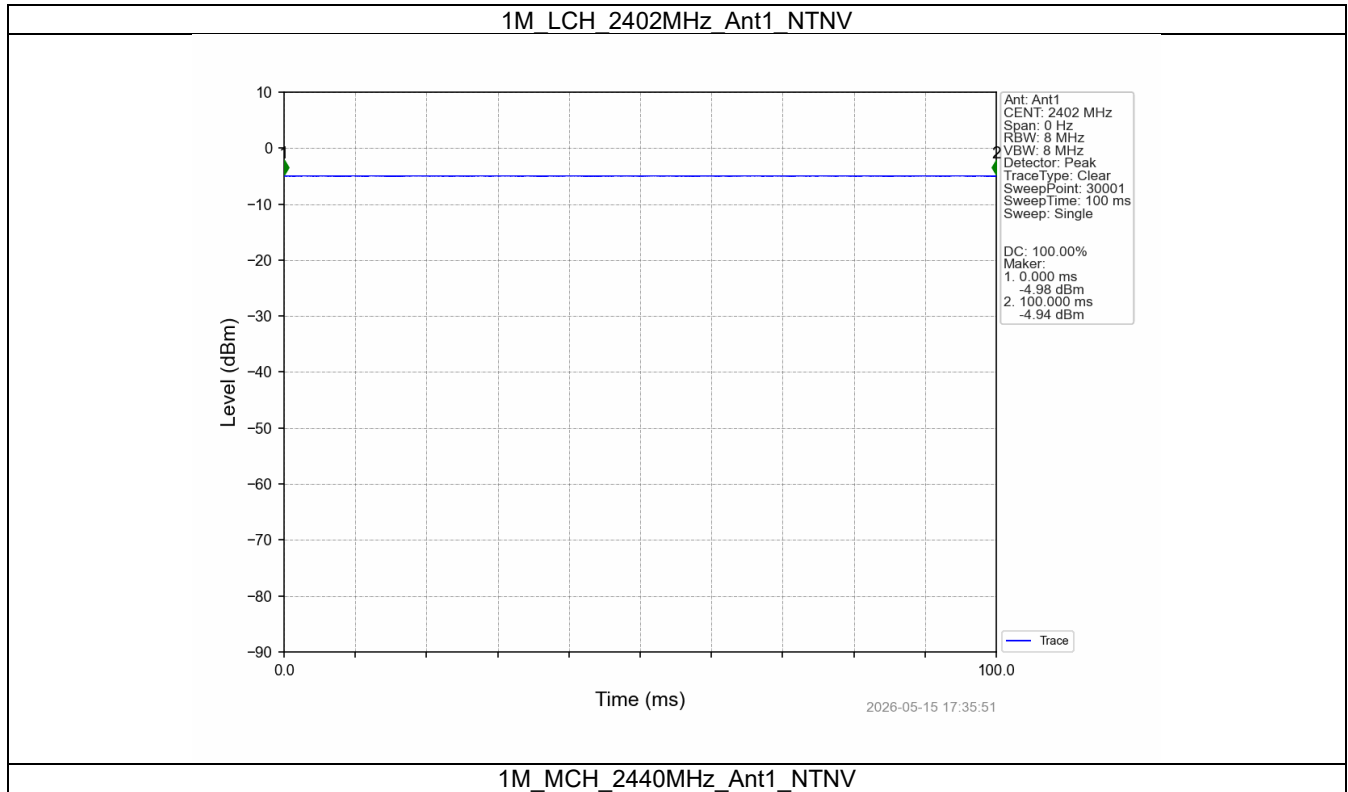
1.1.1 Ant1

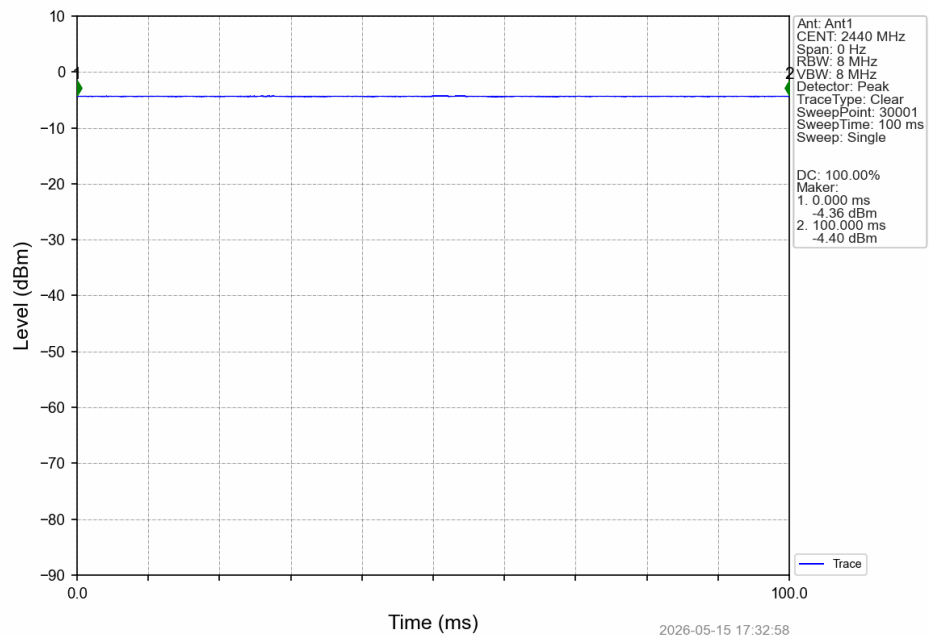
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	100.000	100.000	100.00	0.00	0.00
		2440	100.000	100.000	100.00	0.00	0.00
		2480	100.000	100.000	100.00	0.00	0.00
2M	SISO	2402	100.000	100.000	100.00	0.00	0.00
		2440	100.000	100.000	100.00	0.00	0.00
		2480	100.000	100.000	100.00	0.00	0.00

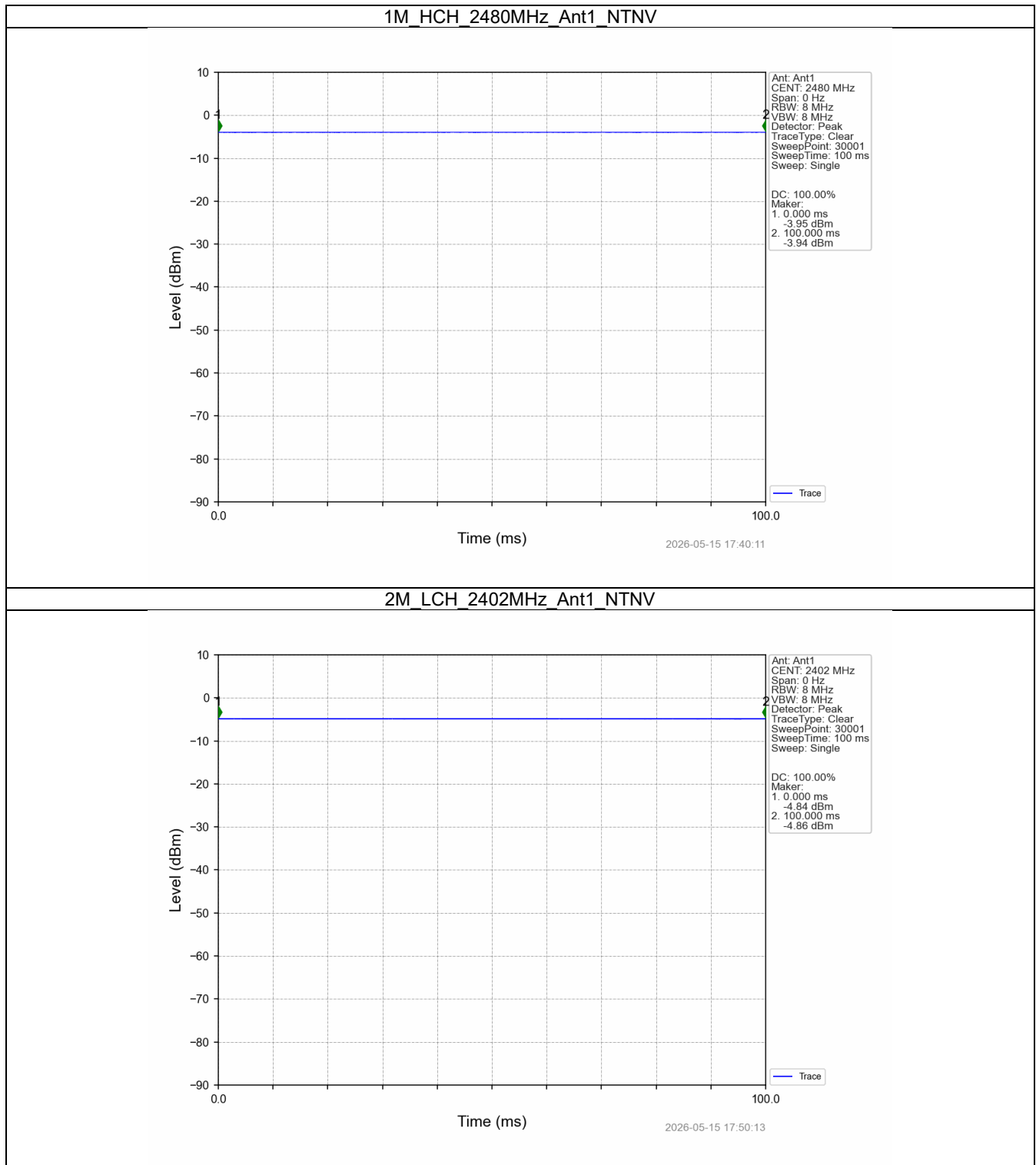


1.2 Test Graph

1.2.1 Ant1

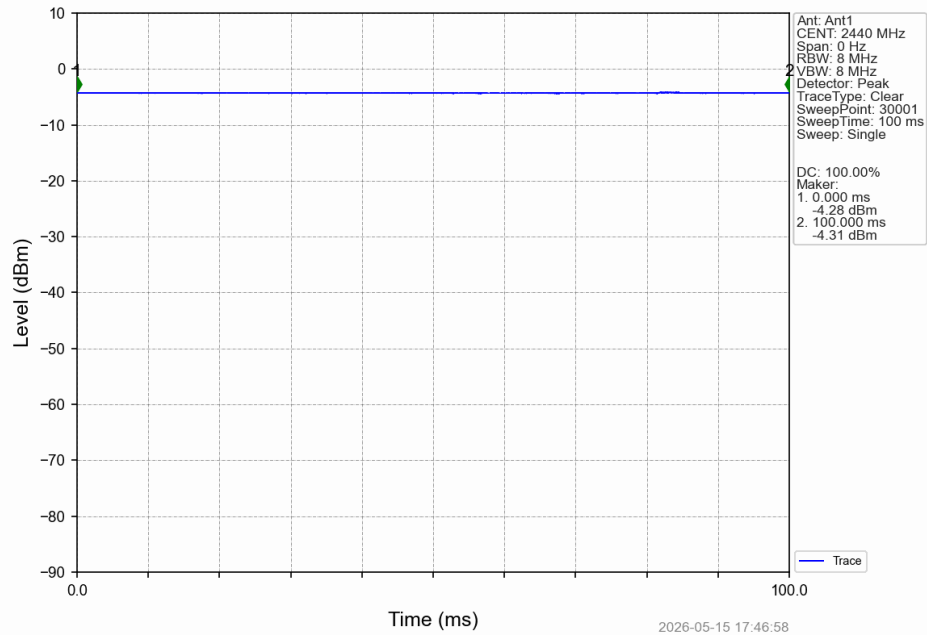




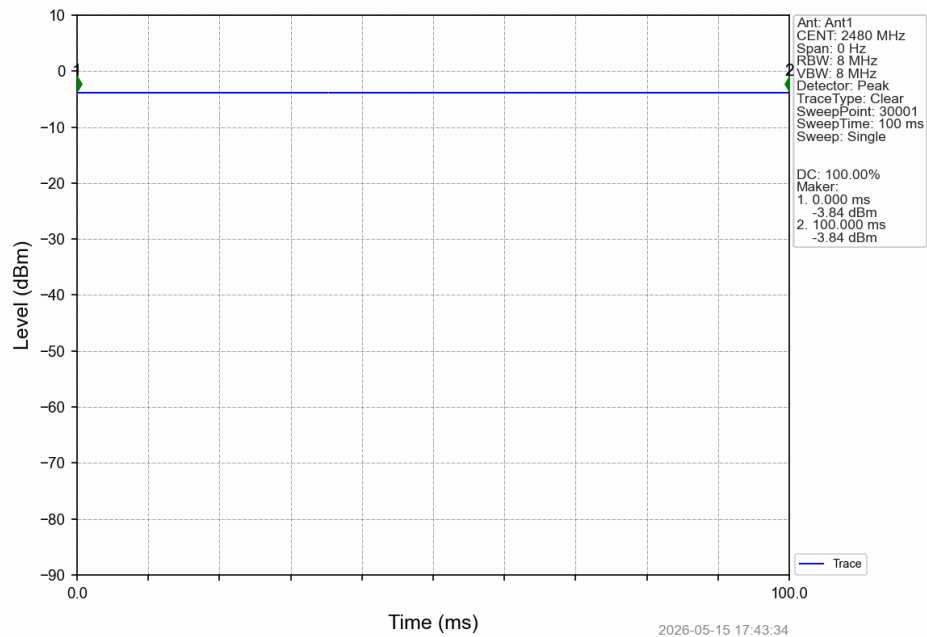




2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV





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	1.022	/	Pass
		2440	1	1.013	/	Pass
		2480	1	1.016	/	Pass
2M	SISO	2402	1	2.044	/	Pass
		2440	1	2.051	/	Pass
		2480	1	2.049	/	Pass

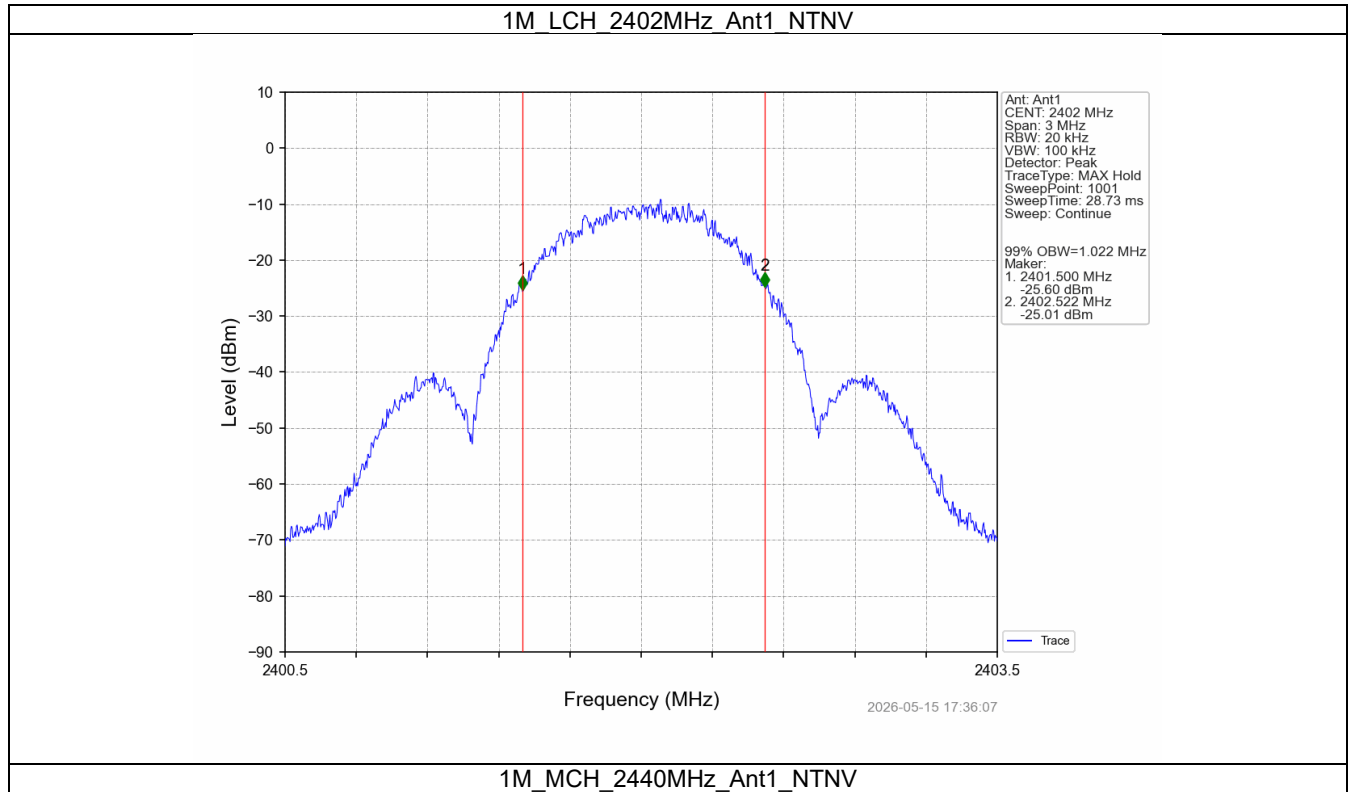
2.1.2 6dB BW

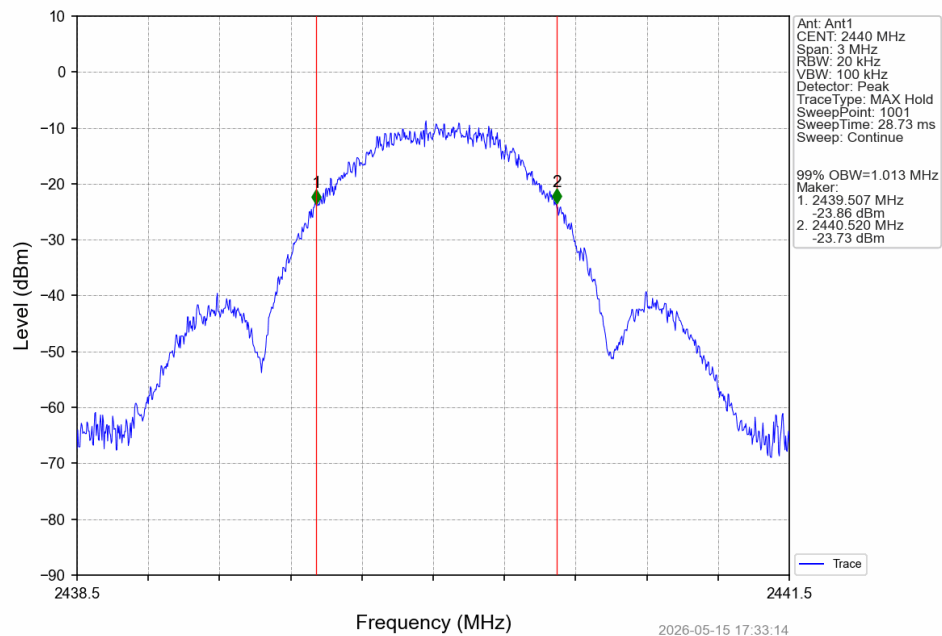
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.686	≥ 0.5	Pass
		2440	1	0.678	≥ 0.5	Pass
		2480	1	0.673	≥ 0.5	Pass
2M	SISO	2402	1	1.341	≥ 0.5	Pass
		2440	1	1.427	≥ 0.5	Pass
		2480	1	1.390	≥ 0.5	Pass



2.2 Test Graph

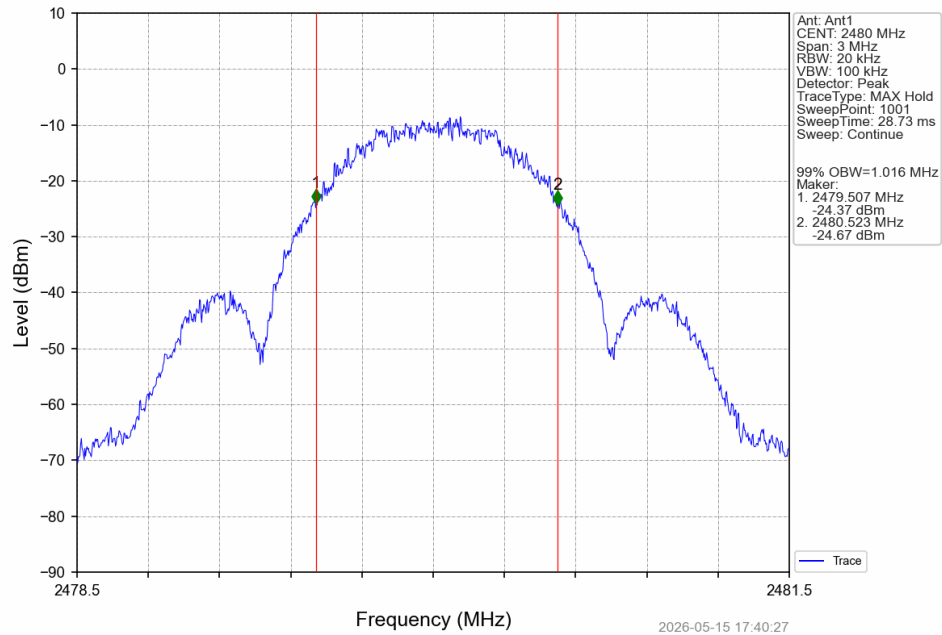
2.2.1 OBW



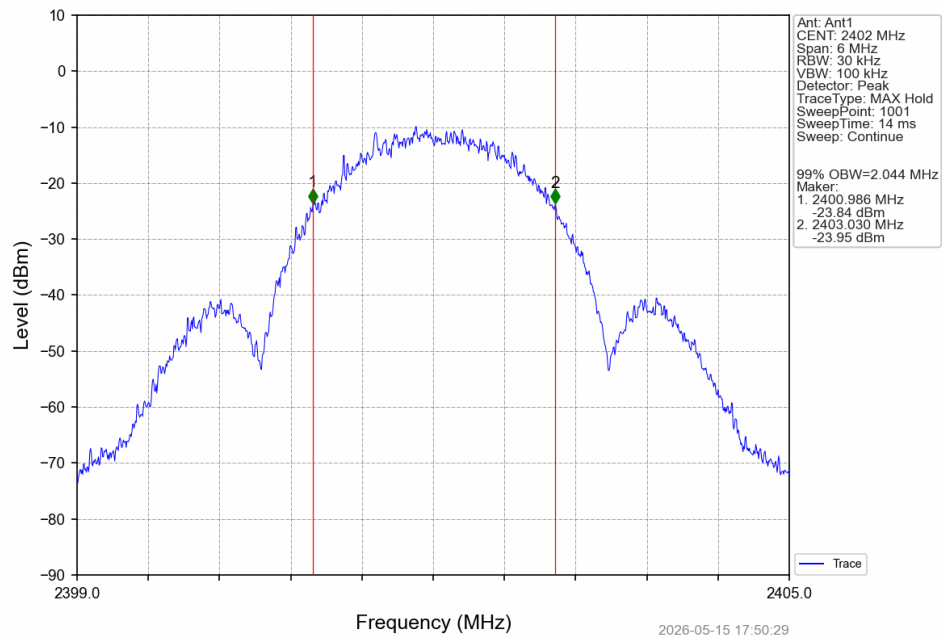




1M_HCH_2480MHz_Ant1_NTNV

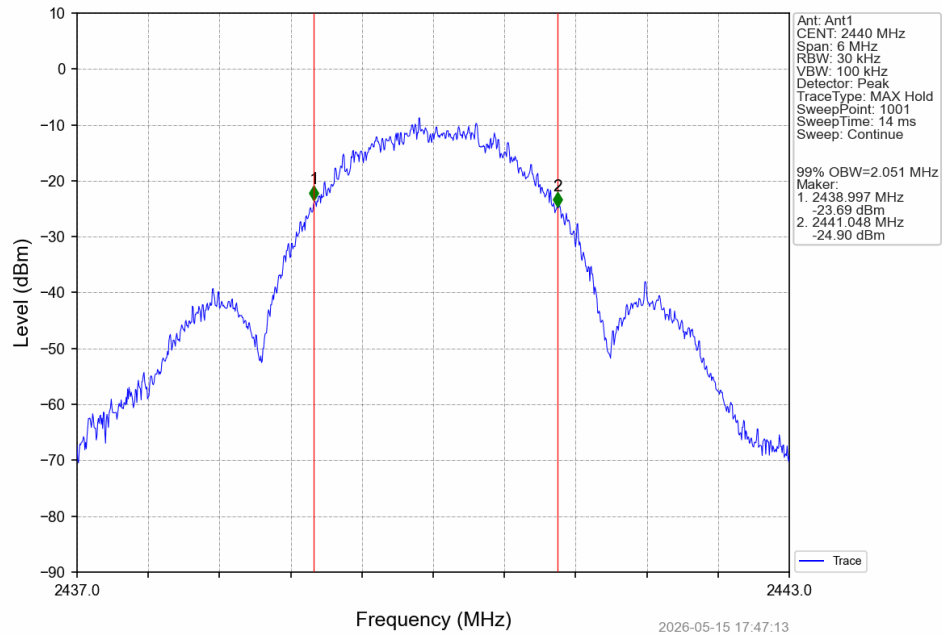


2M_LCH_2402MHz_Ant1_NTNV

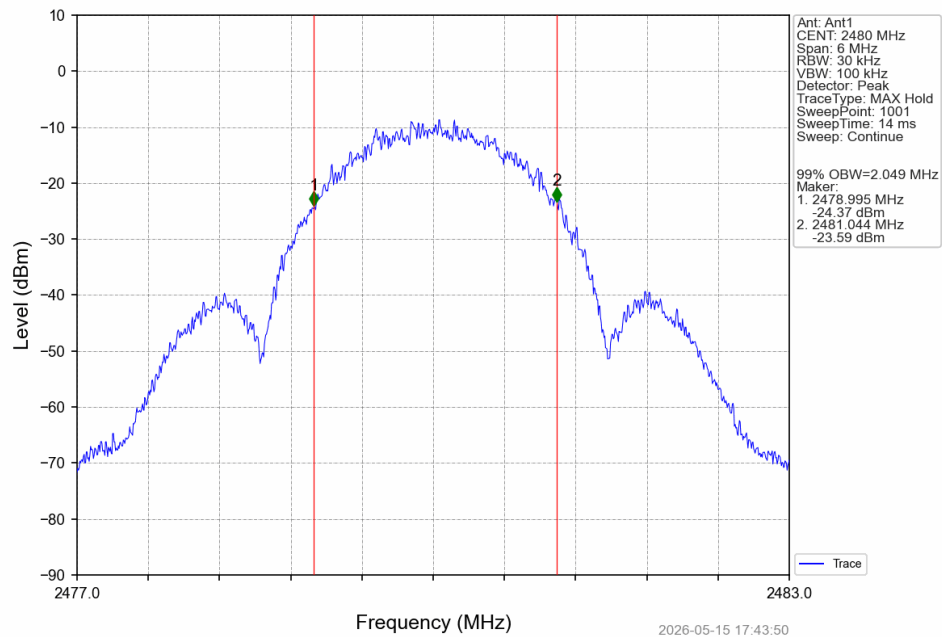




2M_MCH_2440MHz_Ant1_NTNV

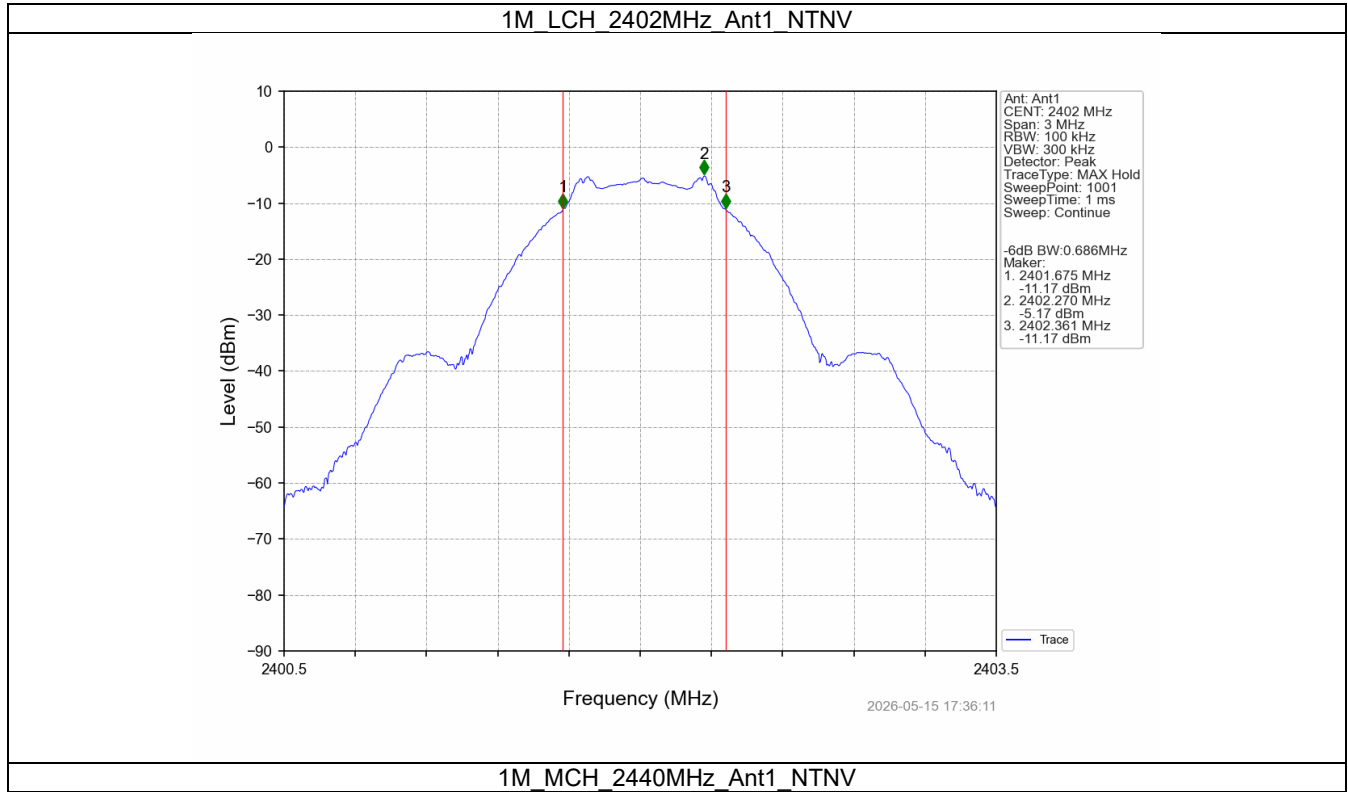


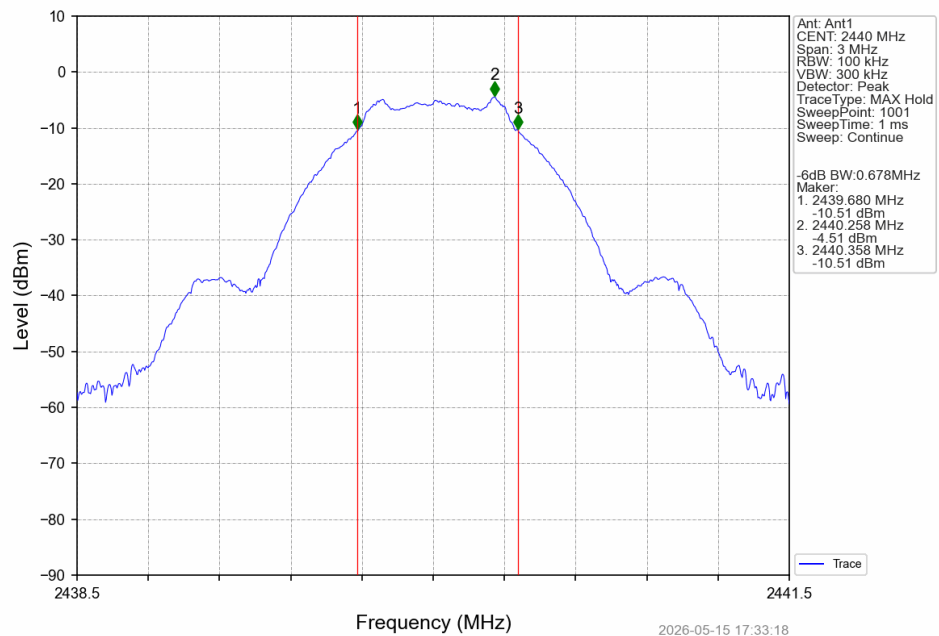
2M_HCH_2480MHz_Ant1_NTNV





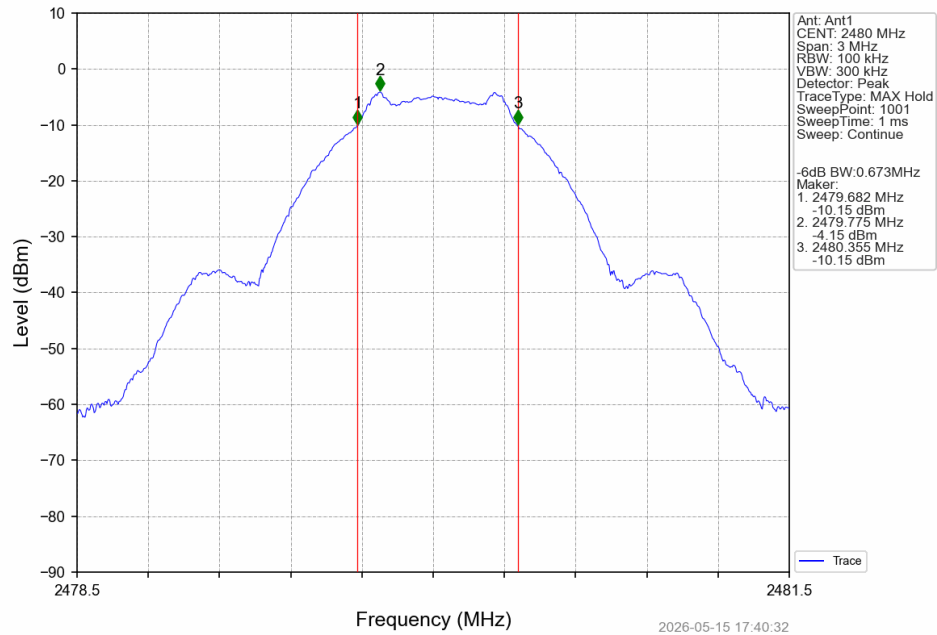
2.2.2 6dB BW



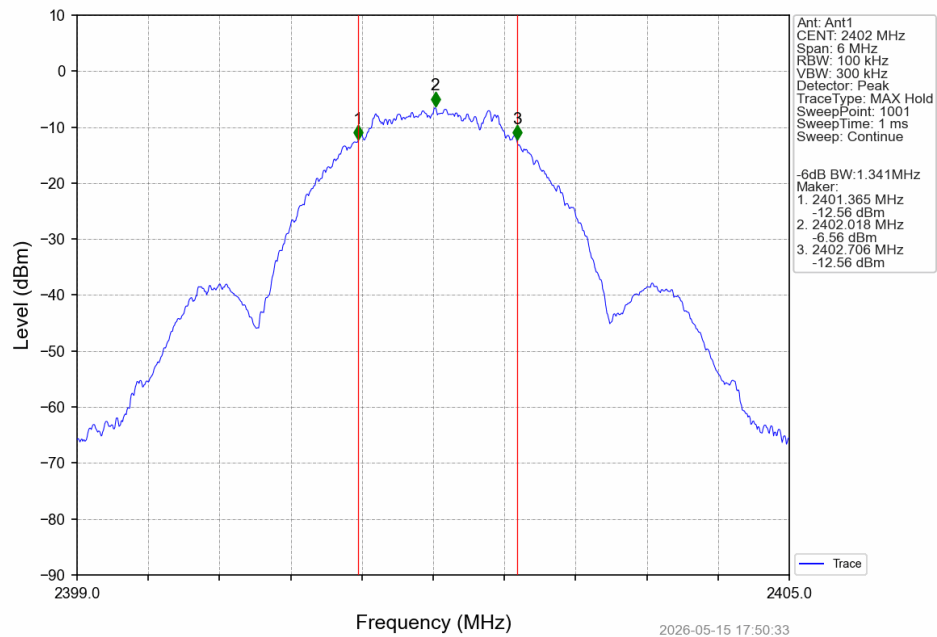




1M_HCH_2480MHz_Ant1_NTNV

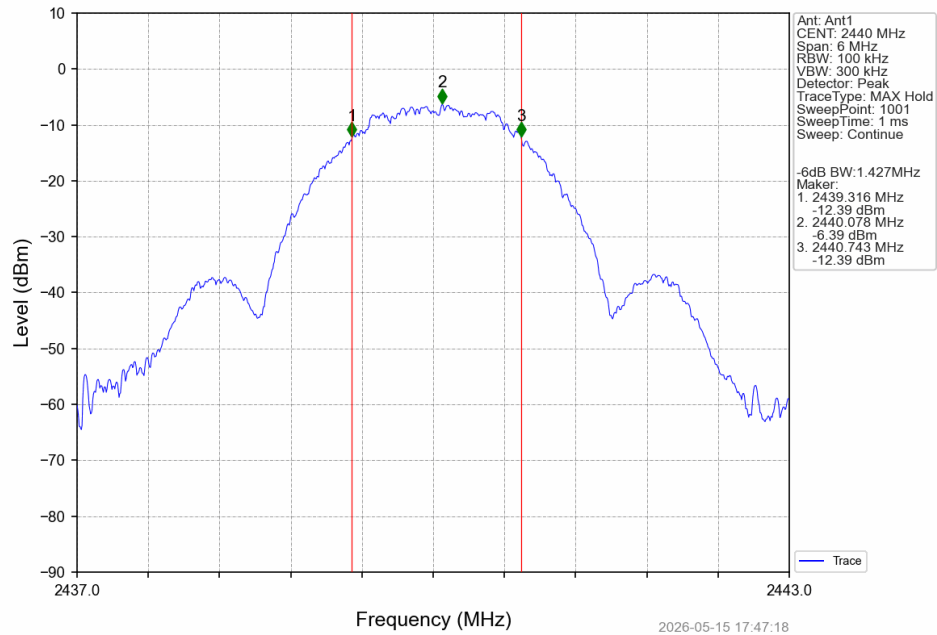


2M_LCH_2402MHz_Ant1_NTNV

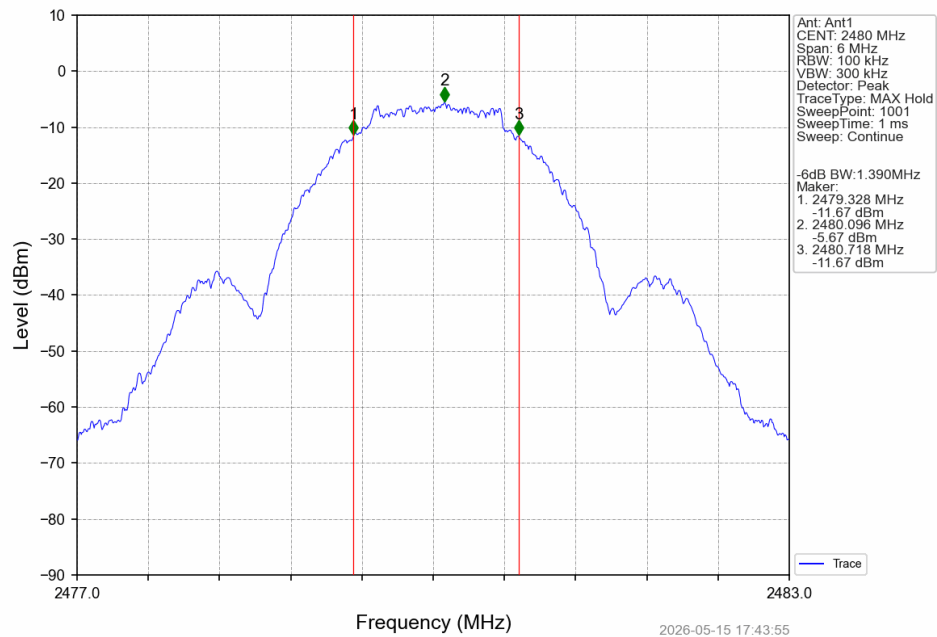




2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV





3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

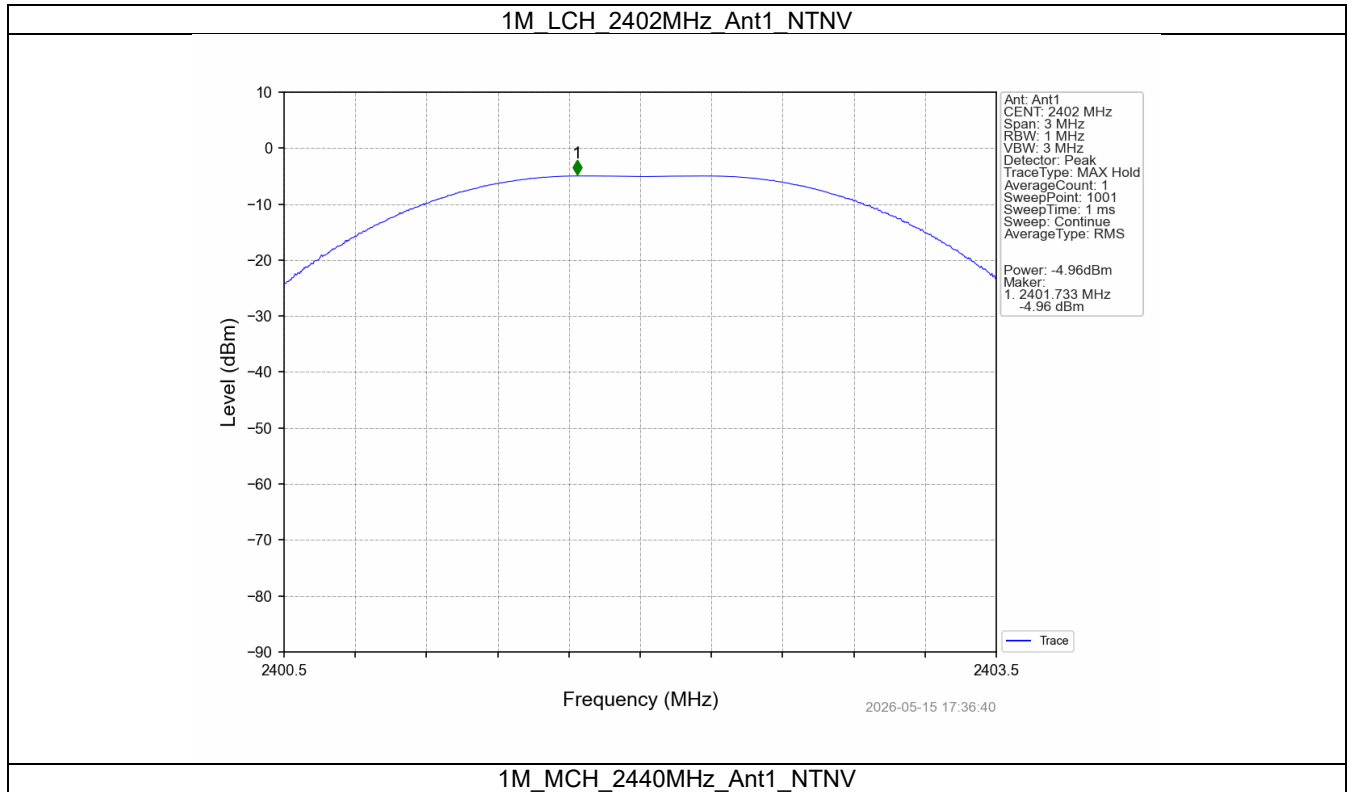
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-4.96	<=30	Pass
		2440	-4.33	<=30	Pass
		2480	-3.90	<=30	Pass
2M	SISO	2402	-4.92	<=30	Pass
		2440	-4.26	<=30	Pass
		2480	-3.89	<=30	Pass

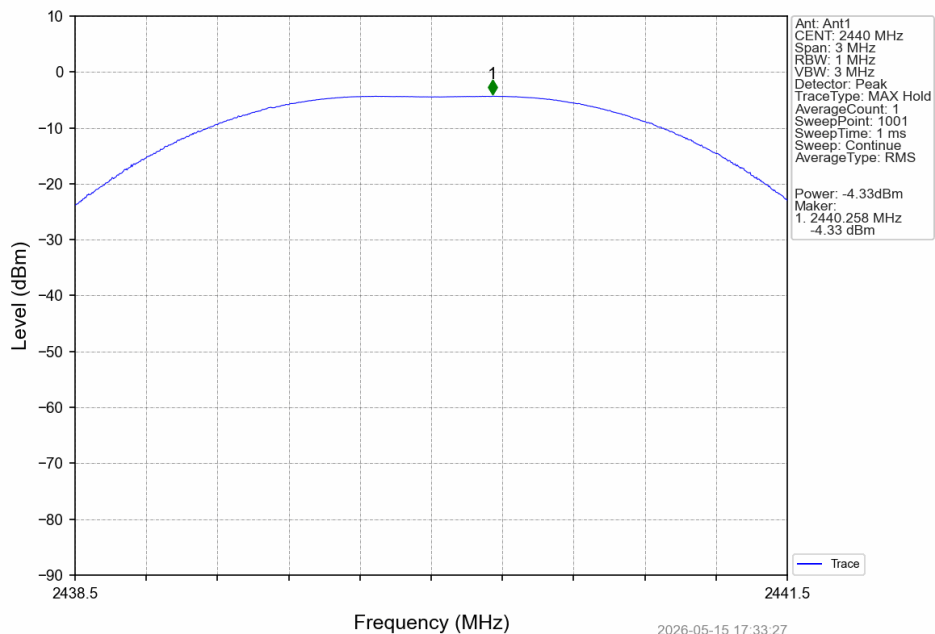
Note1: Antenna Gain: Ant1: 1.05dBi;



3.2 Test Graph

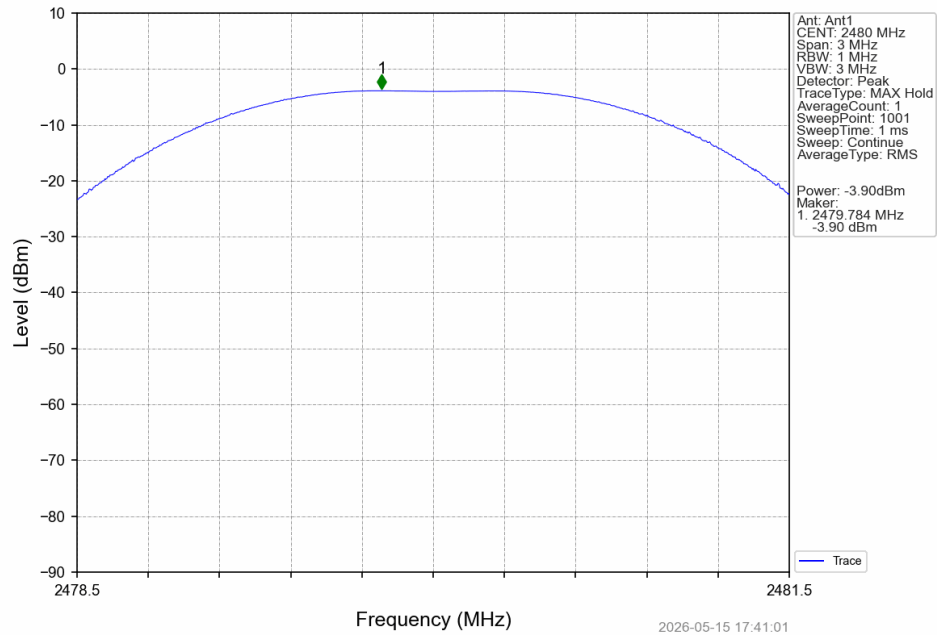
3.2.1 Power



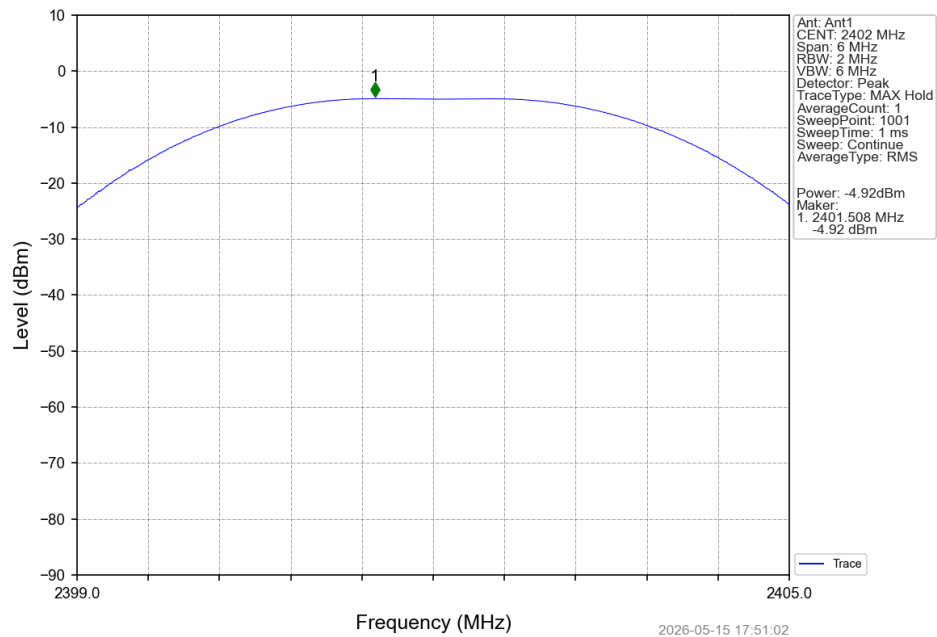




1M_HCH_2480MHz_Ant1_NTNV

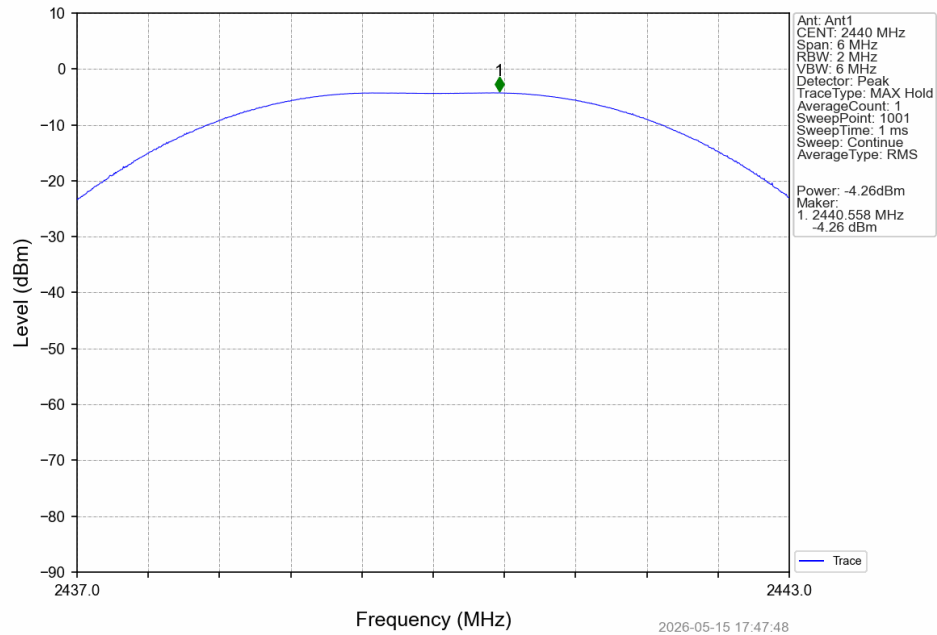


2M_LCH_2402MHz_Ant1_NTNV

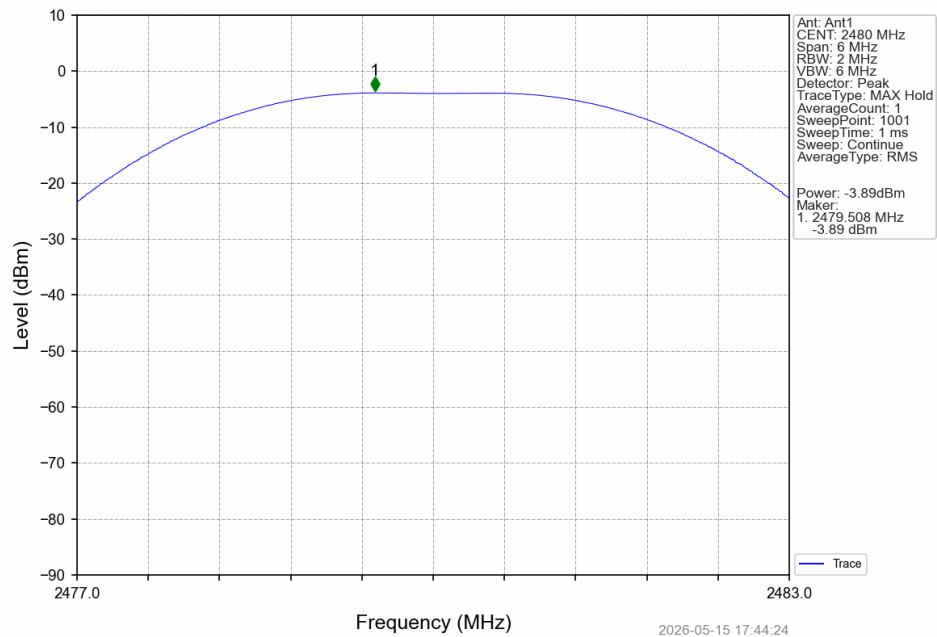




2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV





4. Maximum Power Spectral Density

4.1 Test Result

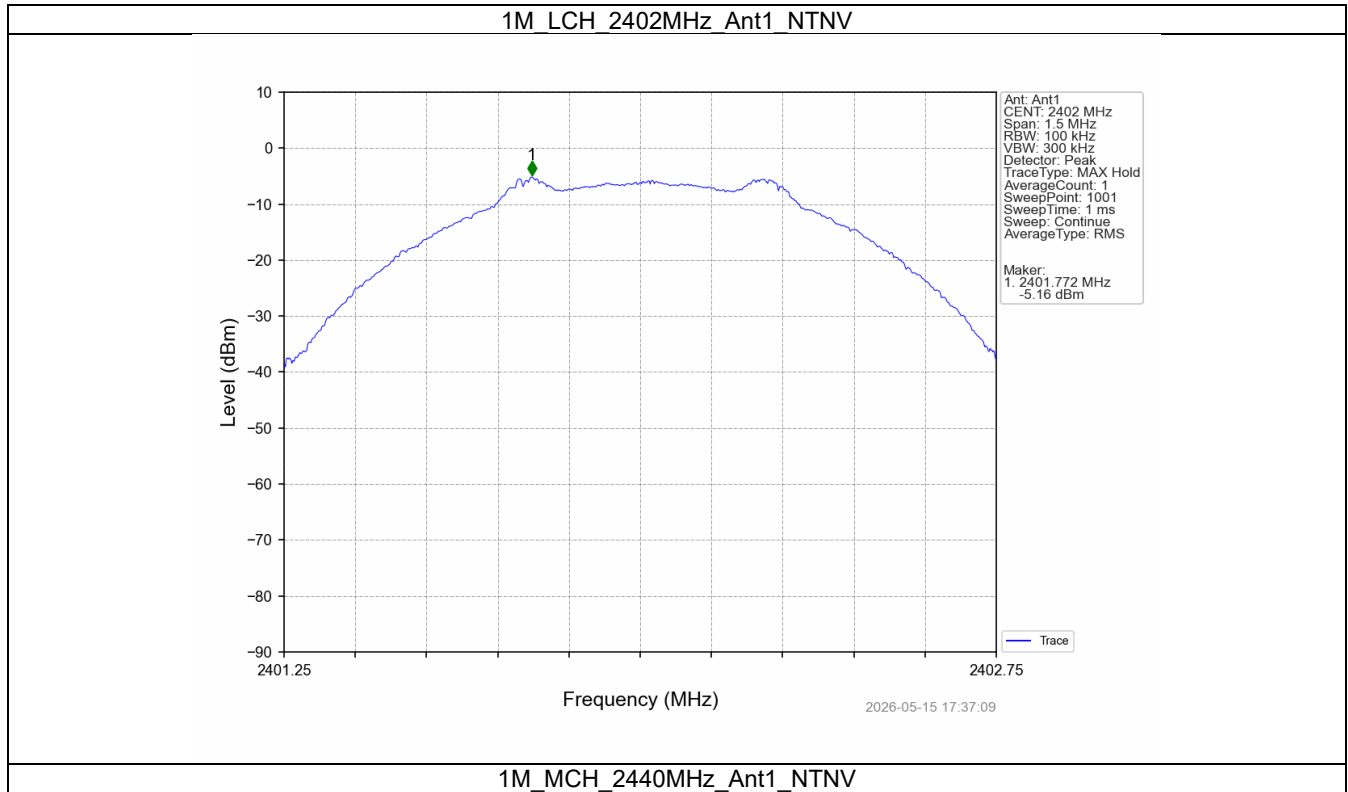
4.1.1 PSD

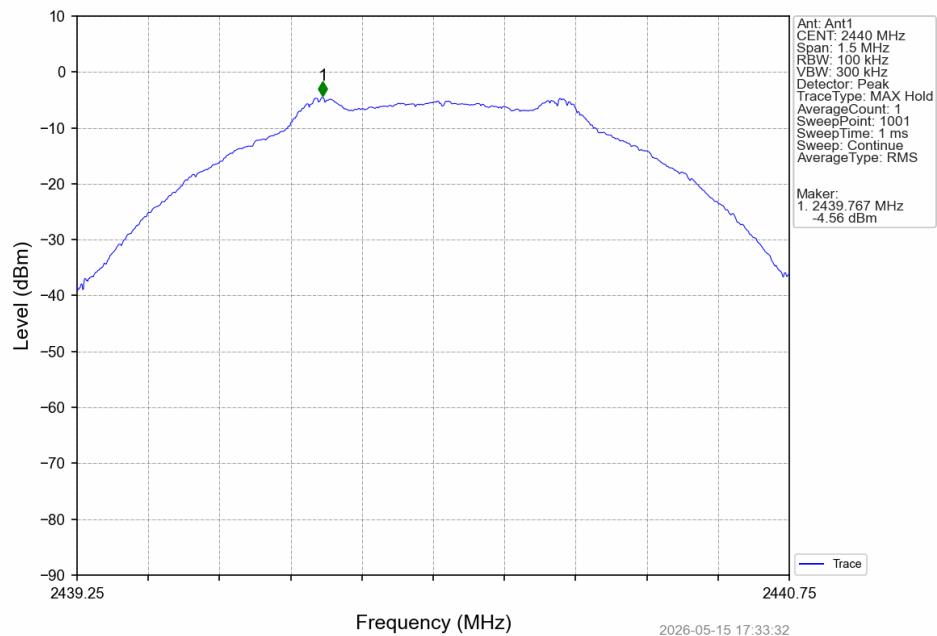
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit(dBm/3kHz)	
1M	SISO	2402	-5.16dBm/100kHz	<=8	Pass
		2440	-4.56dBm/100kHz	<=8	Pass
		2480	-4.08dBm/100kHz	<=8	Pass
2M	SISO	2402	-6.37dBm/100kHz	<=8	Pass
		2440	-6.22dBm/100kHz	<=8	Pass
		2480	-6.05dBm/100kHz	<=8	Pass
Note1: Antenna Gain: Ant1: 1.05dBi;					



4.2 Test Graph

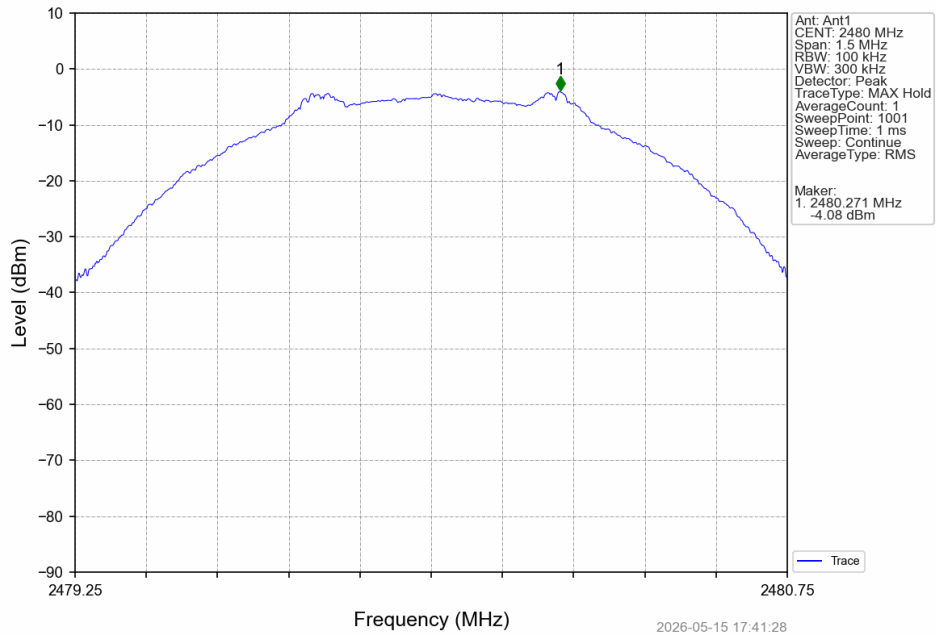
4.2.1 PSD



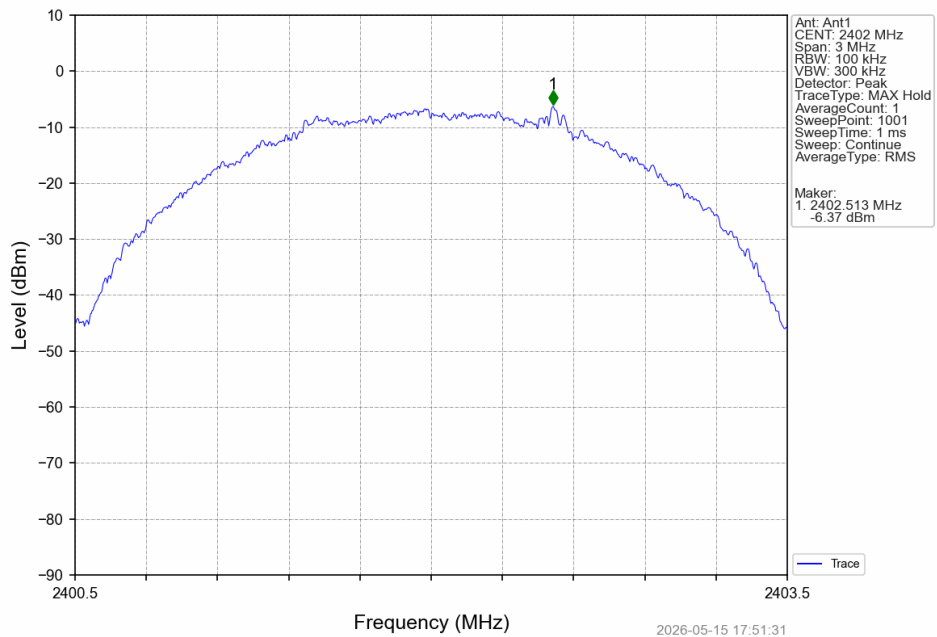




1M_HCH_2480MHz_Ant1_NTNV

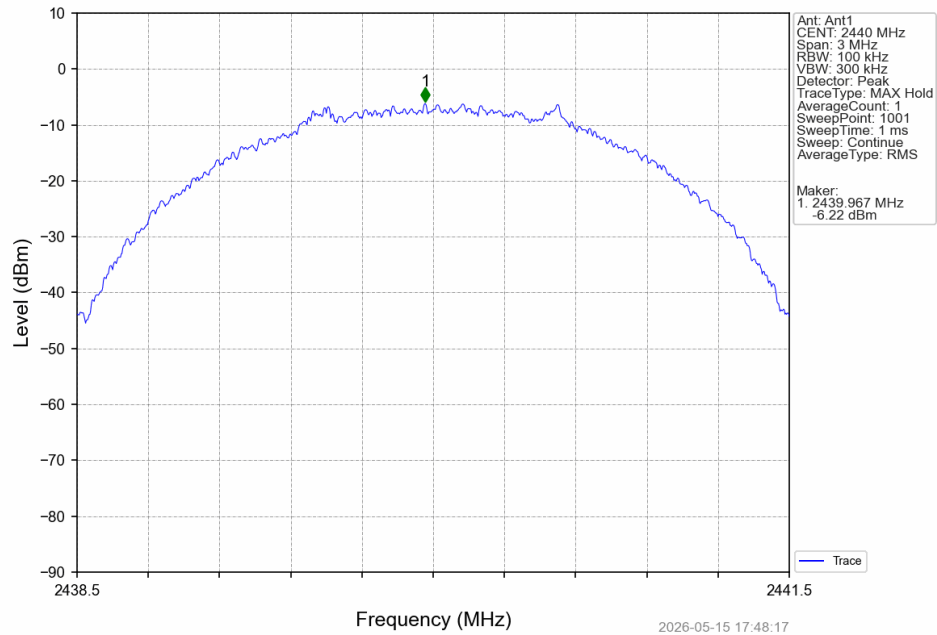


2M_LCH_2402MHz_Ant1_NTNV

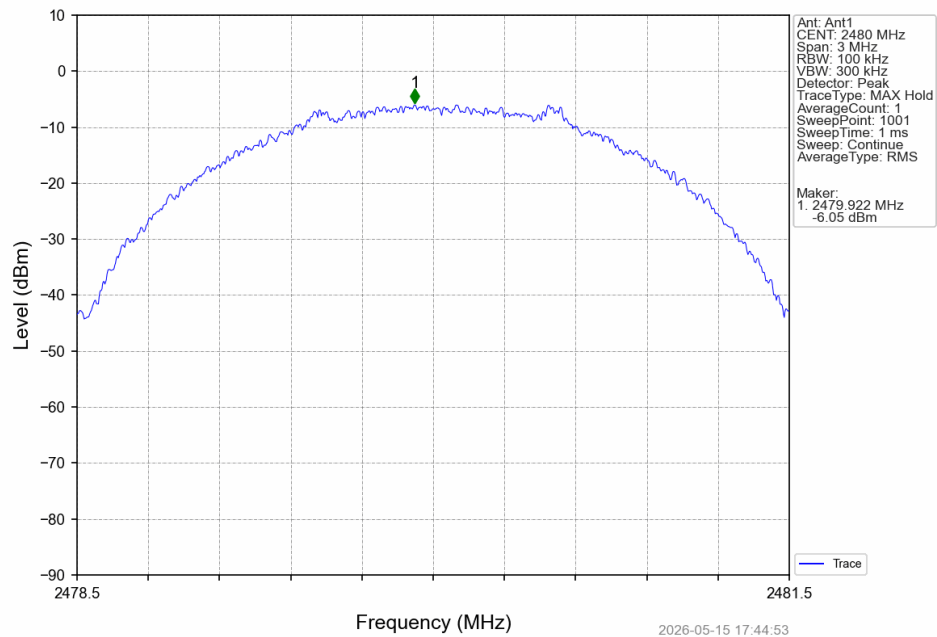




2M_MCH_2440MHz_Ant1_NTNV



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	-5.15
		2440	1	-4.74
		2480	1	-4.14
2M	SISO	2402	1	-6.75
		2440	1	-6.05
		2480	1	-5.75

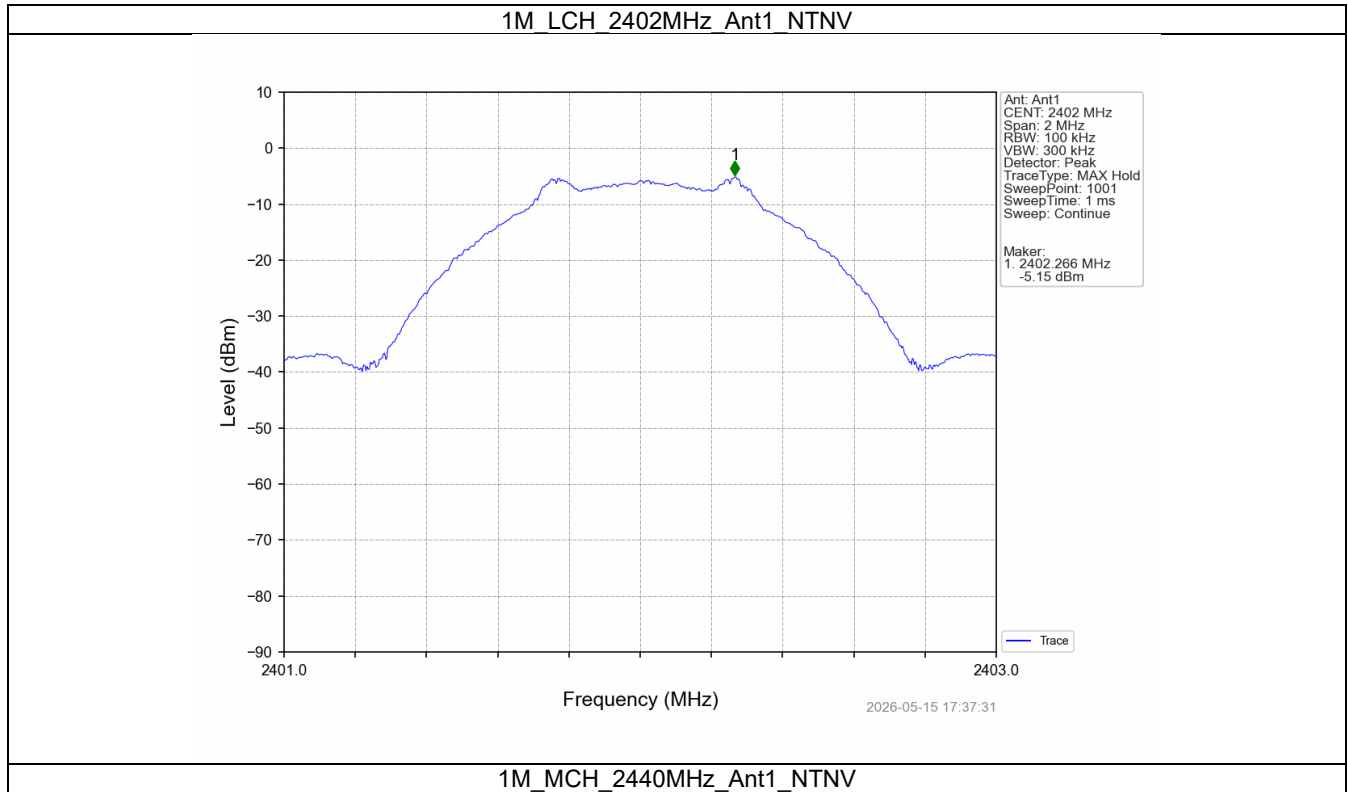
5.1.2 CSE

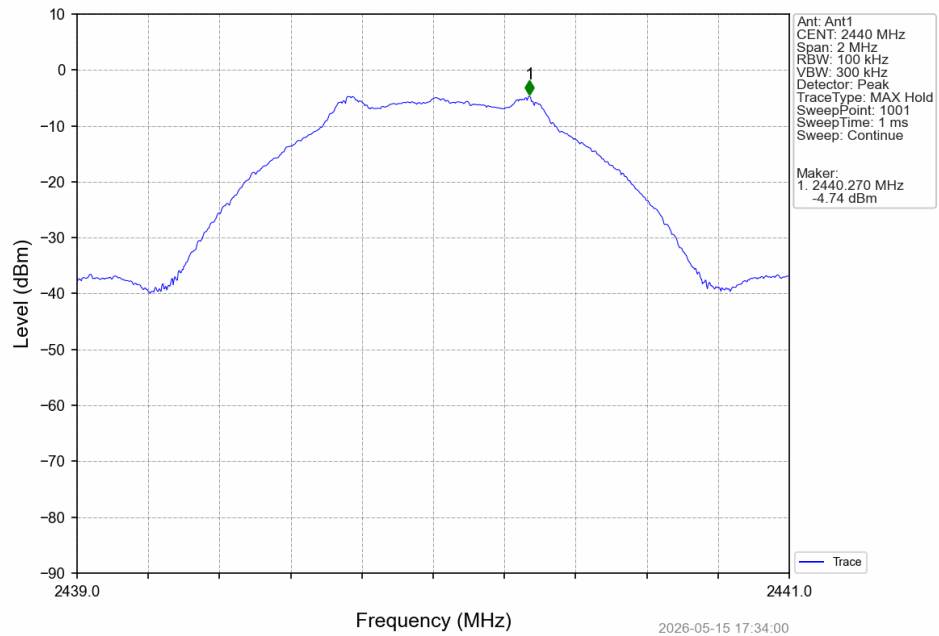
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-4.14	-24.14	Pass
		2440	1	-4.14	-24.14	Pass
		2480	1	-4.14	-24.14	Pass
2M	SISO	2402	1	-5.75	-25.75	Pass
		2440	1	-5.75	-25.75	Pass
		2480	1	-5.75	-25.75	Pass



5.2 Test Graph

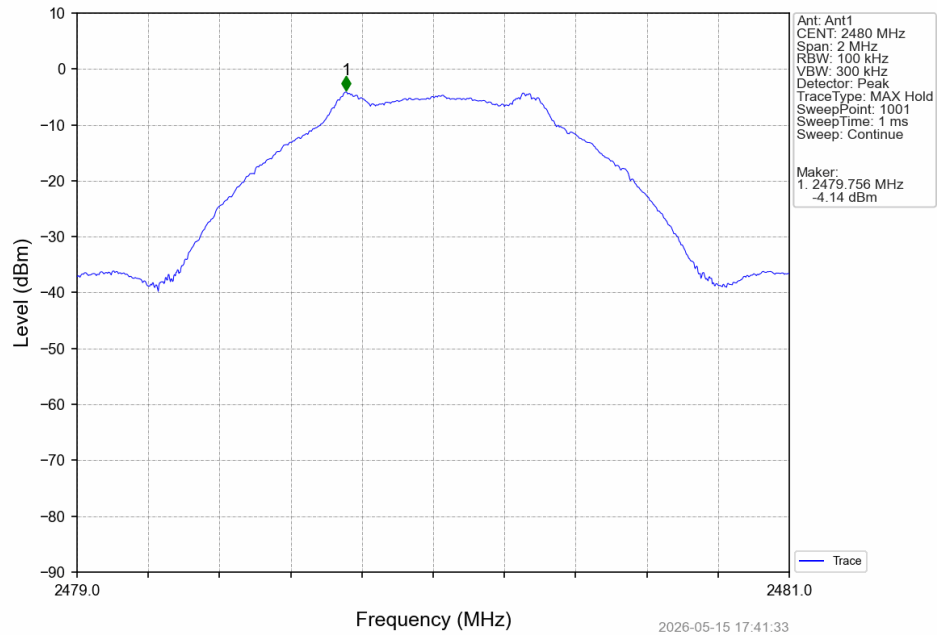
5.2.1 Ref



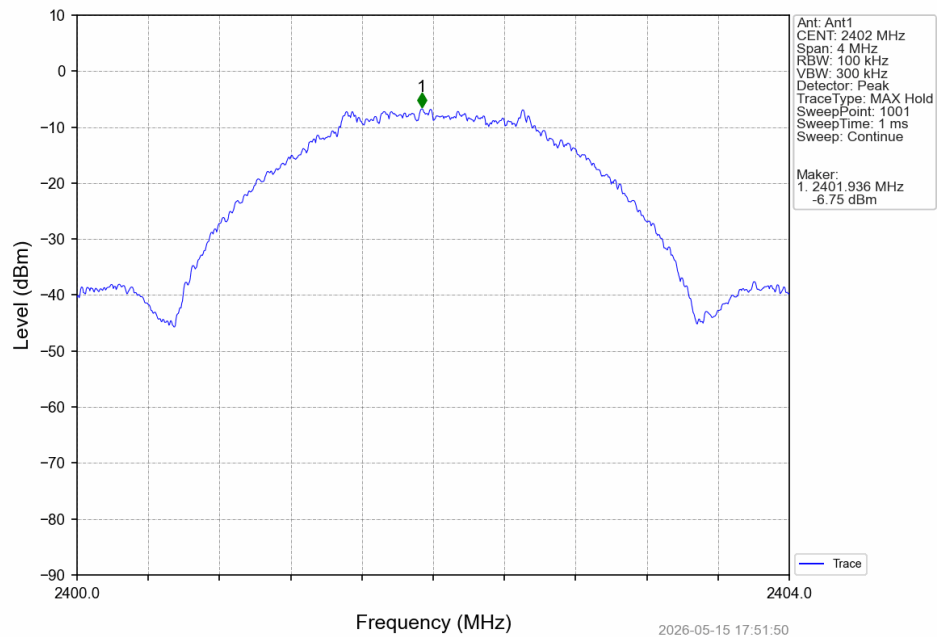




1M_HCH_2480MHz_Ant1_NTNV

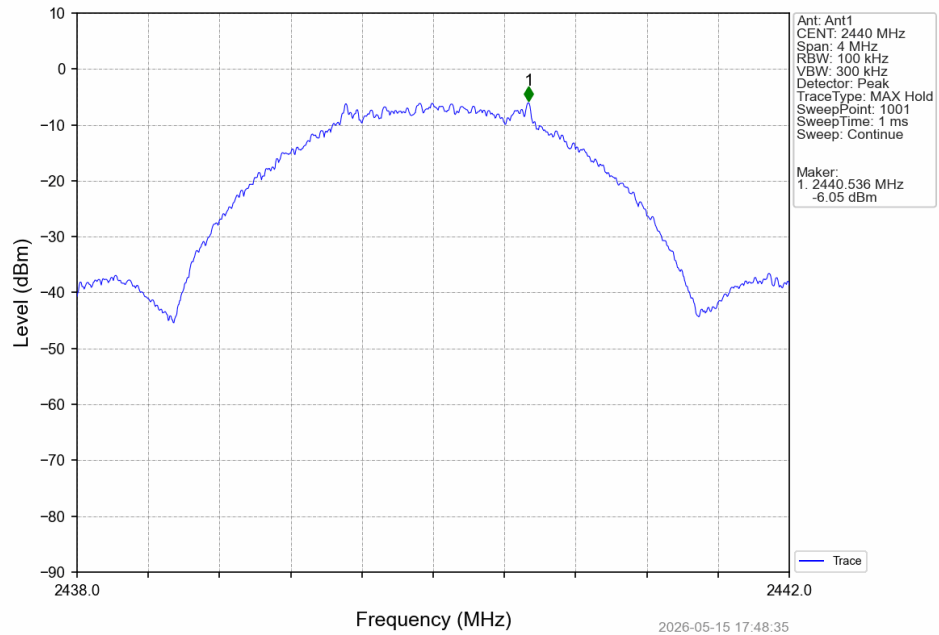


2M_LCH_2402MHz_Ant1_NTNV

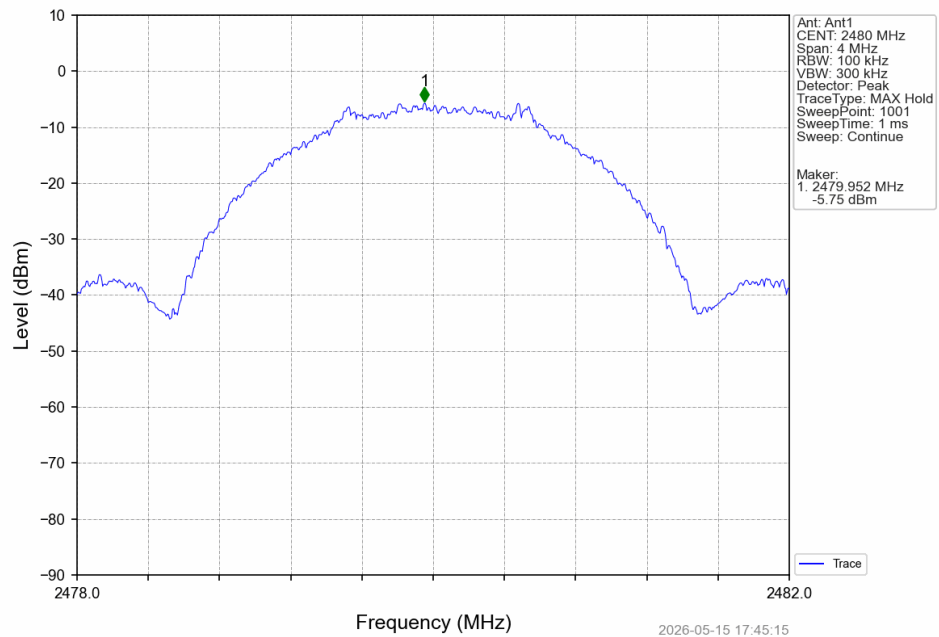




2M_MCH_2440MHz_Ant1_NTNV

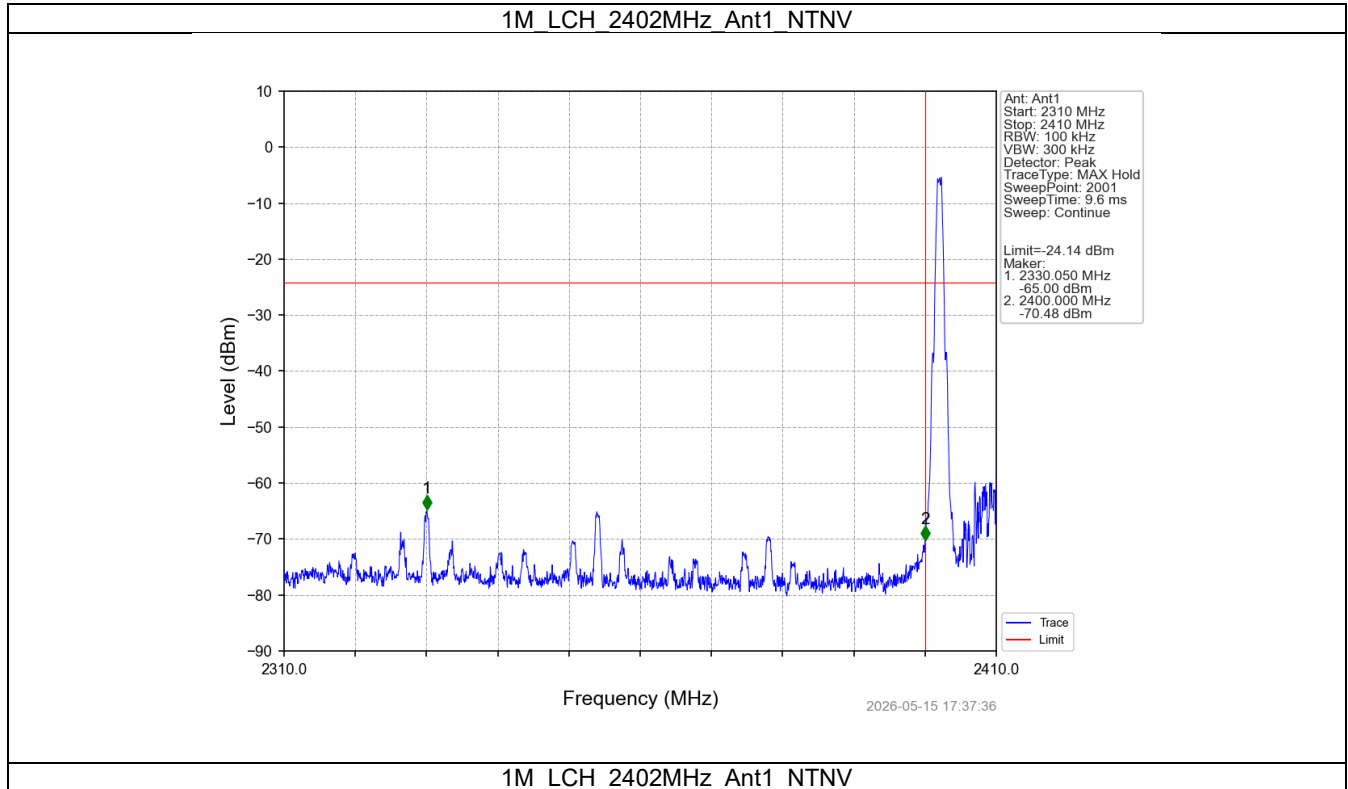


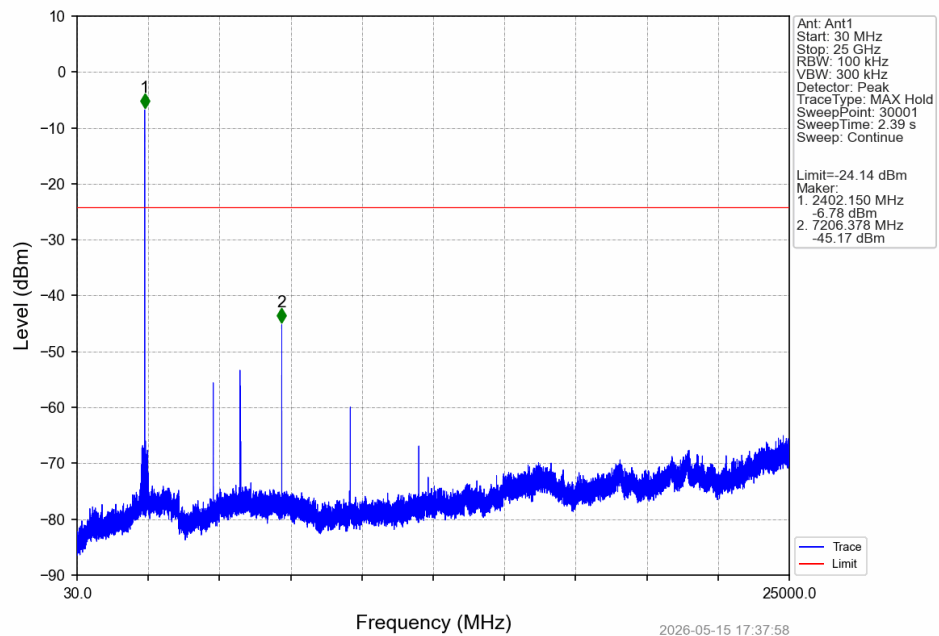
2M_HCH_2480MHz_Ant1_NTNV





5.2.2 CSE

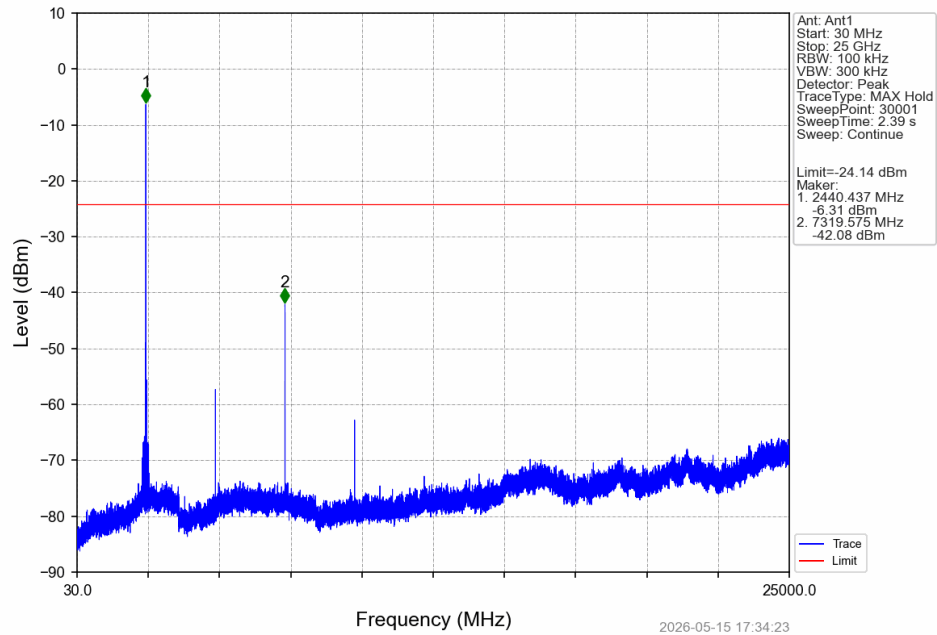




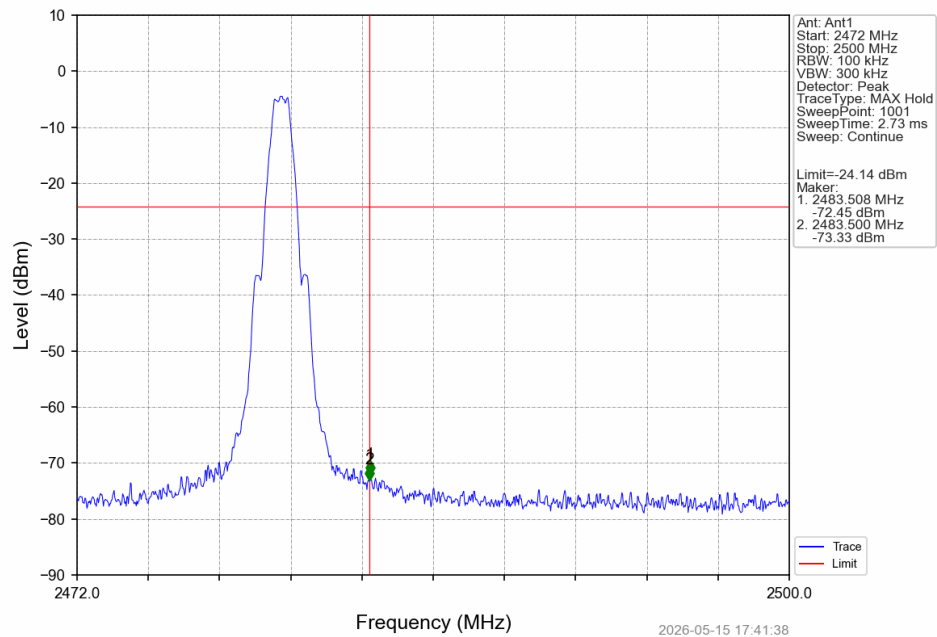
2026-05-15 17:37:58



1M_MCH_2440MHz_Ant1_NTNV

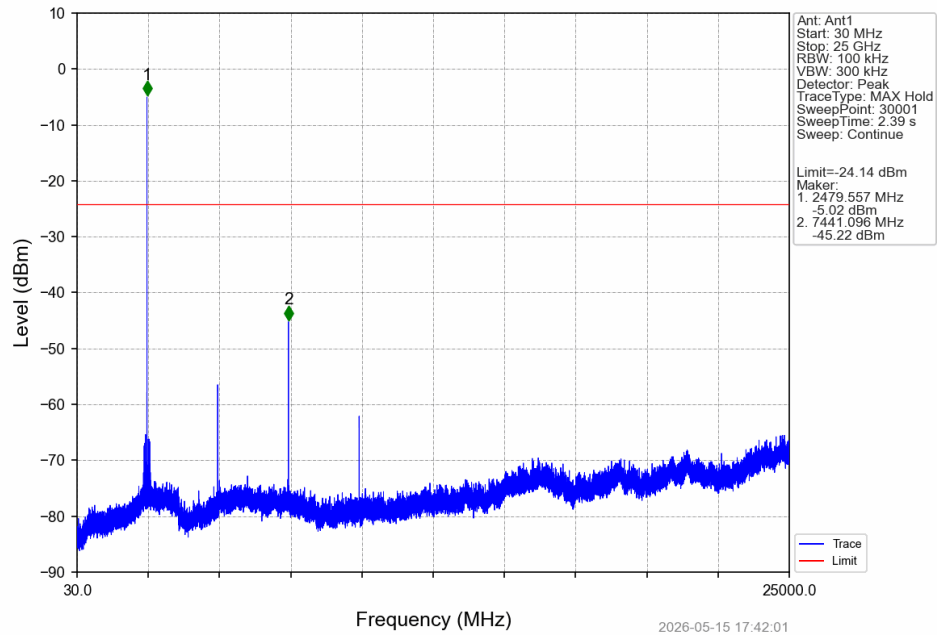


1M_HCH_2480MHz_Ant1_NTNV

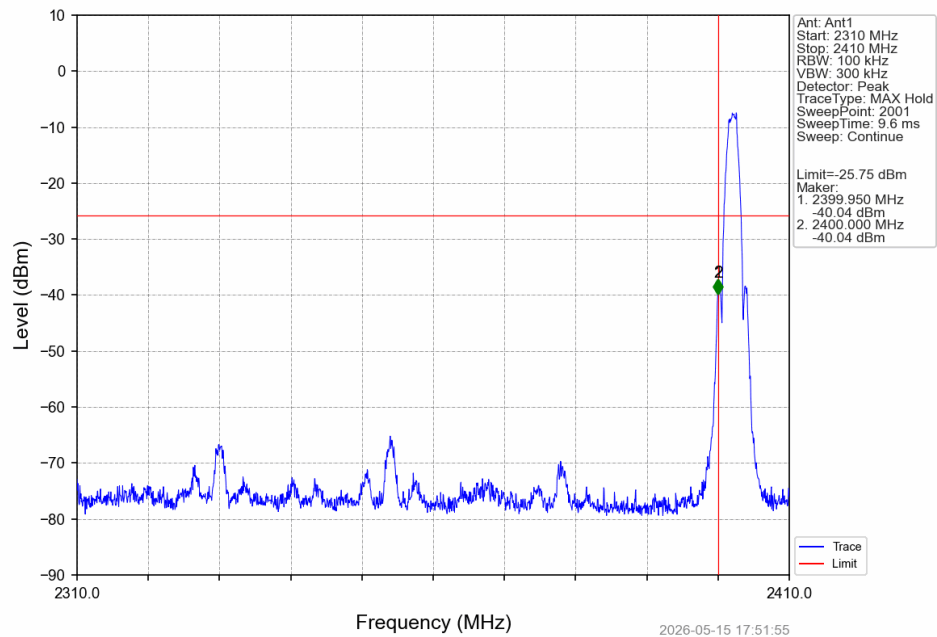




1M_HCH_2480MHz_Ant1_NTNV

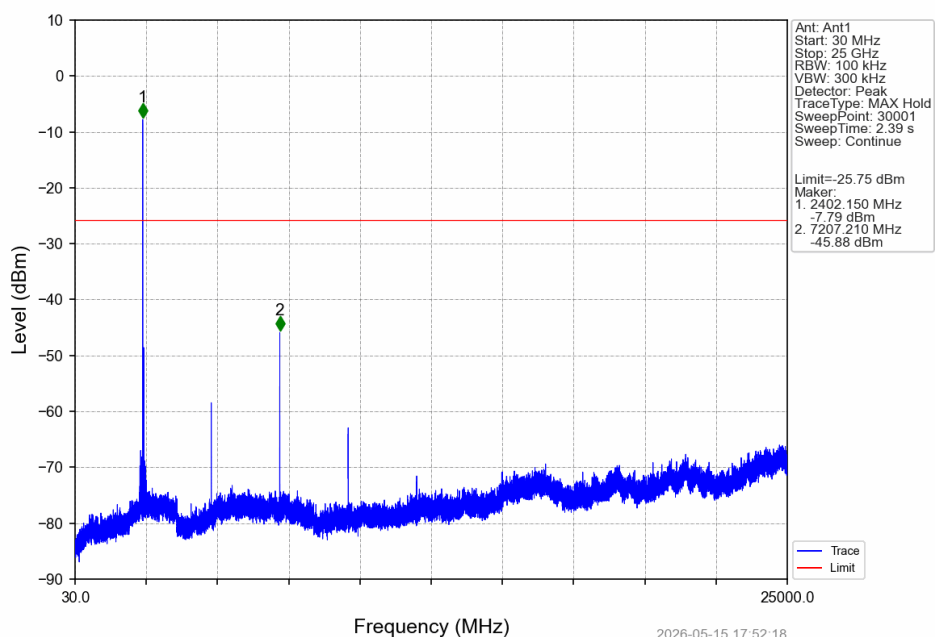


2M_LCH_2402MHz_Ant1_NTNV

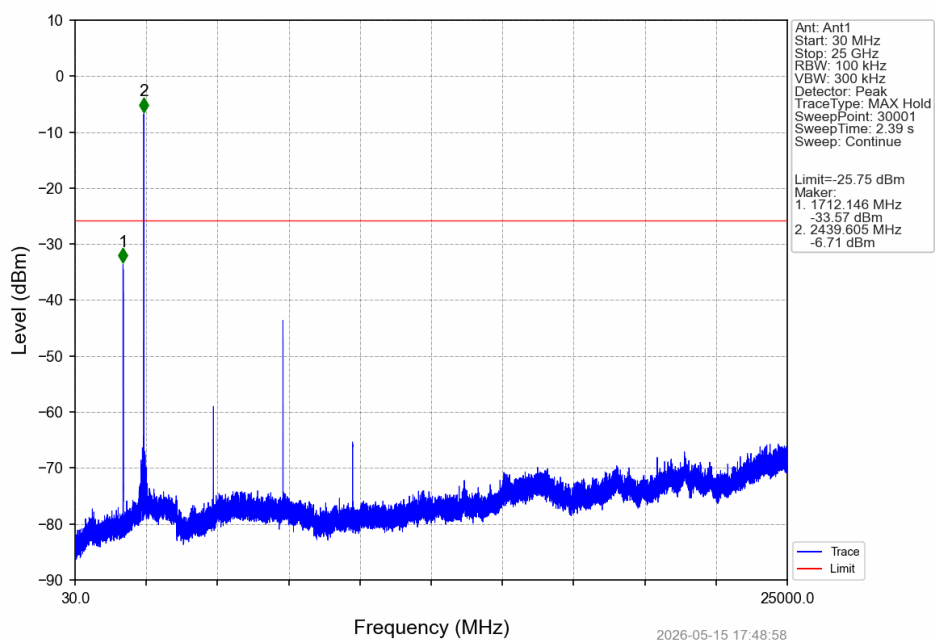




2M_LCH_2402MHz_Ant1_NTNV

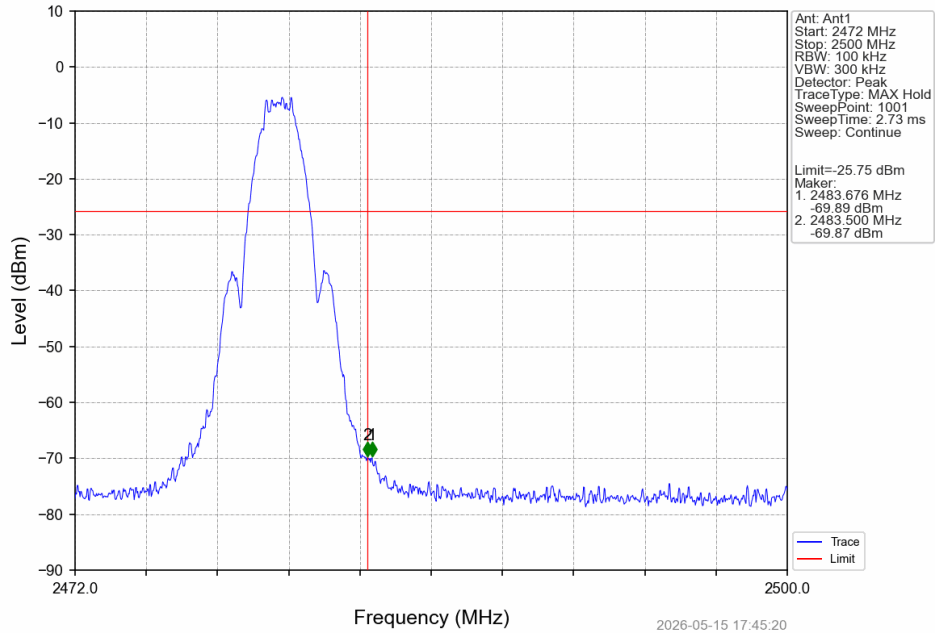


2M_MCH_2440MHz_Ant1_NTNV

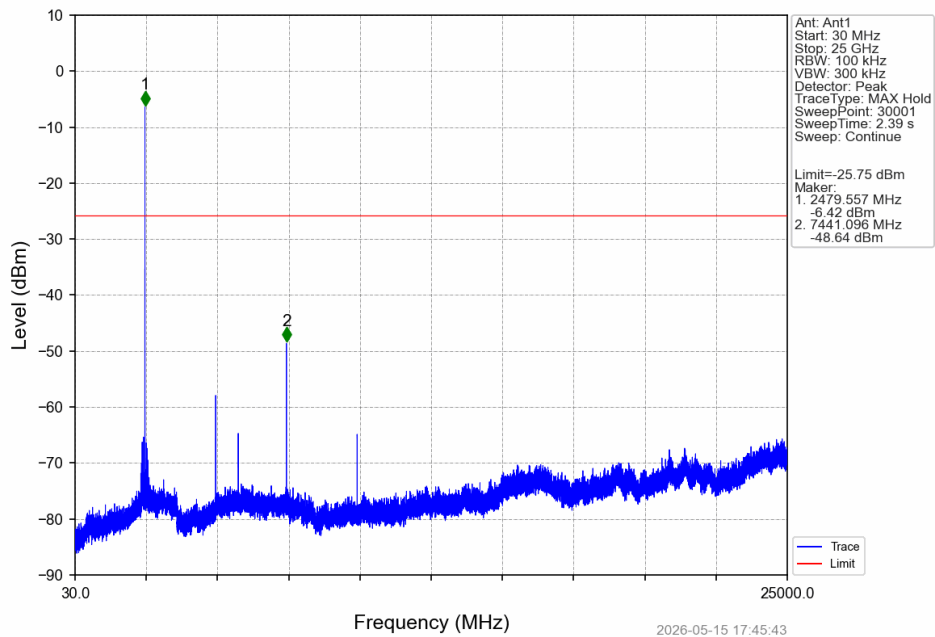




2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV





6. Unwanted Emissions In Restricted Frequency Bands

6.1 Test Result

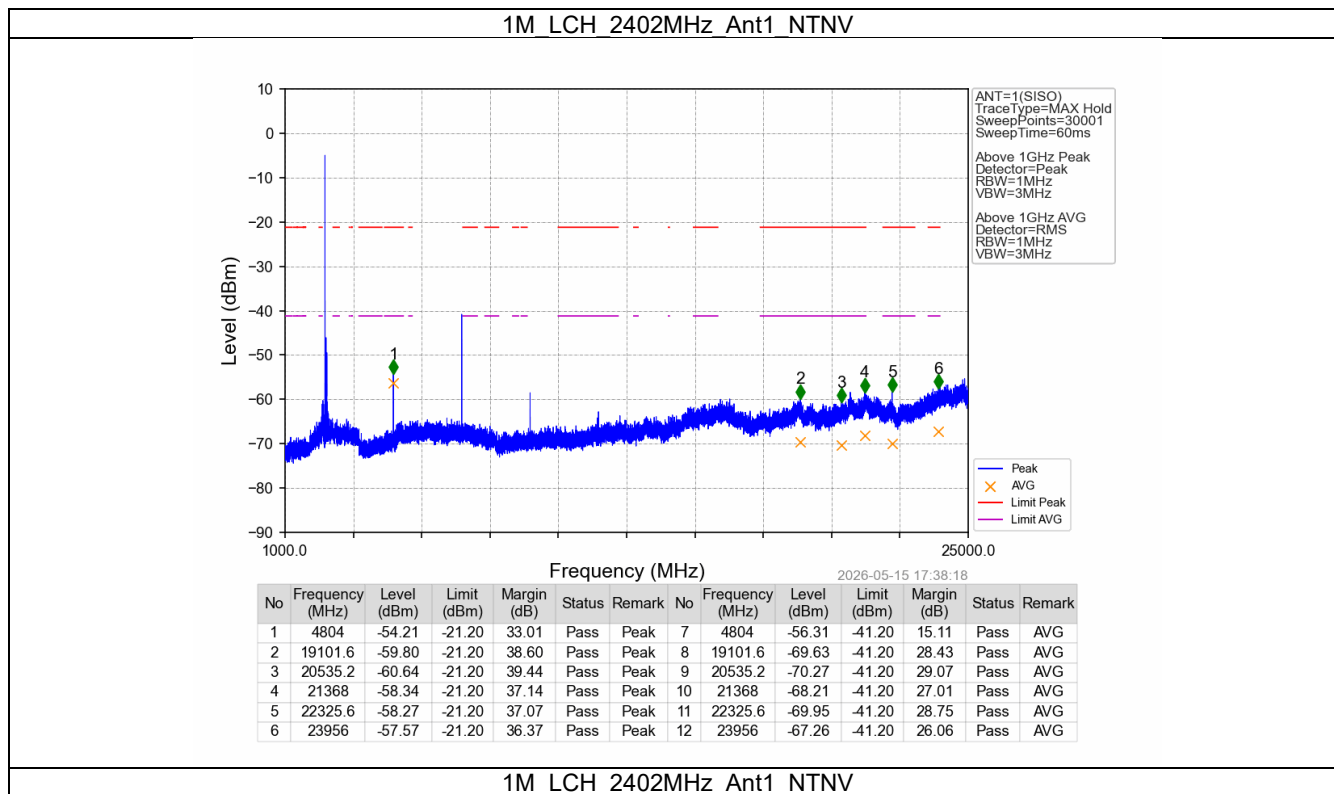
6.1.1 RSE

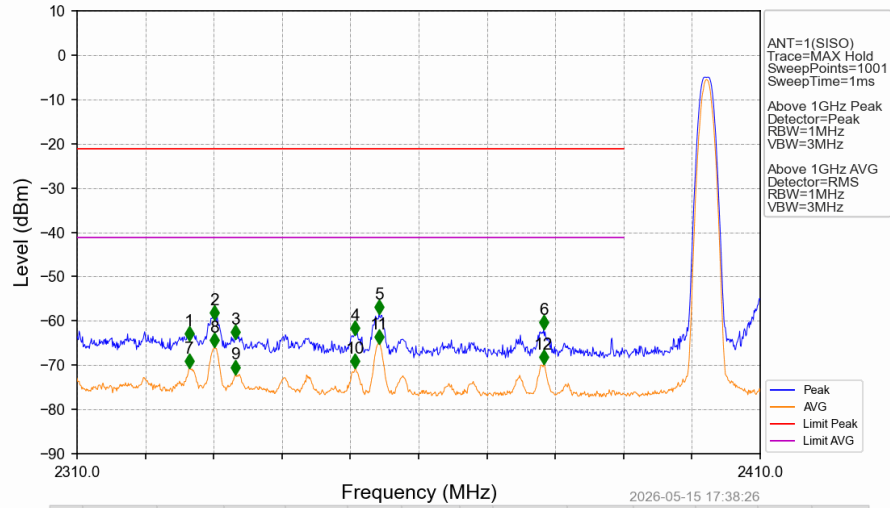
Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
1M	SISO	2402	1	Refer To Test Graph		Pass
		2440	1	Refer To Test Graph		Pass
		2480	1	Refer To Test Graph		Pass
2M	SISO	2402	1	Refer To Test Graph		Pass
		2440	1	Refer To Test Graph		Pass
		2480	1	Refer To Test Graph		Pass



6.2 Test Graph

6.2.1 RSE

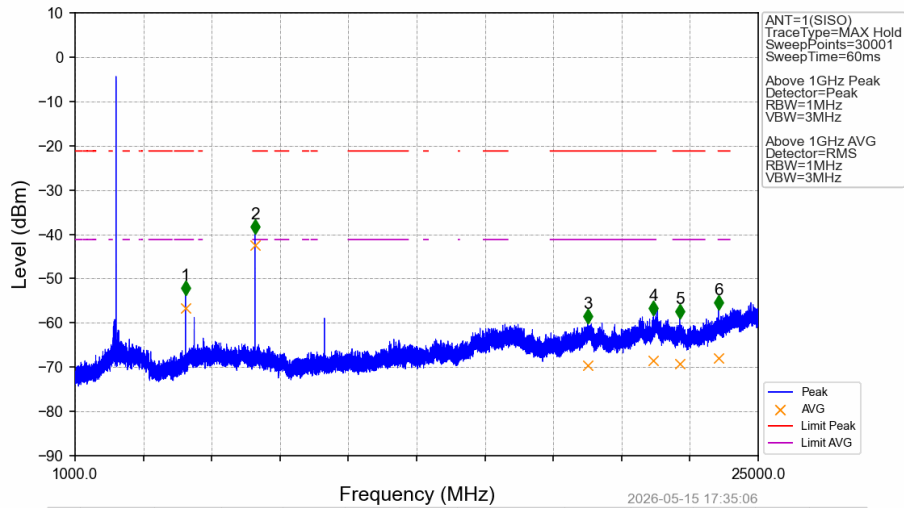




No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2326.400	-64.37	-21.20	43.17	Pass	Peak	7	2326.400	-70.60	-41.20	29.40	Pass	AVG
2	2330.100	-59.77	-21.20	38.57	Pass	Peak	8	2330.100	-65.94	-41.20	24.74	Pass	AVG
3	2333.200	-64.06	-21.20	42.86	Pass	Peak	9	2333.200	-72.01	-41.20	30.81	Pass	AVG
4	2350.700	-63.09	-21.20	41.89	Pass	Peak	10	2350.700	-70.69	-41.20	29.49	Pass	AVG
5	2354.200	-58.47	-21.20	37.27	Pass	Peak	11	2354.200	-65.10	-41.20	23.90	Pass	AVG
6	2378.300	-61.94	-21.20	40.74	Pass	Peak	12	2378.300	-69.80	-41.20	28.60	Pass	AVG

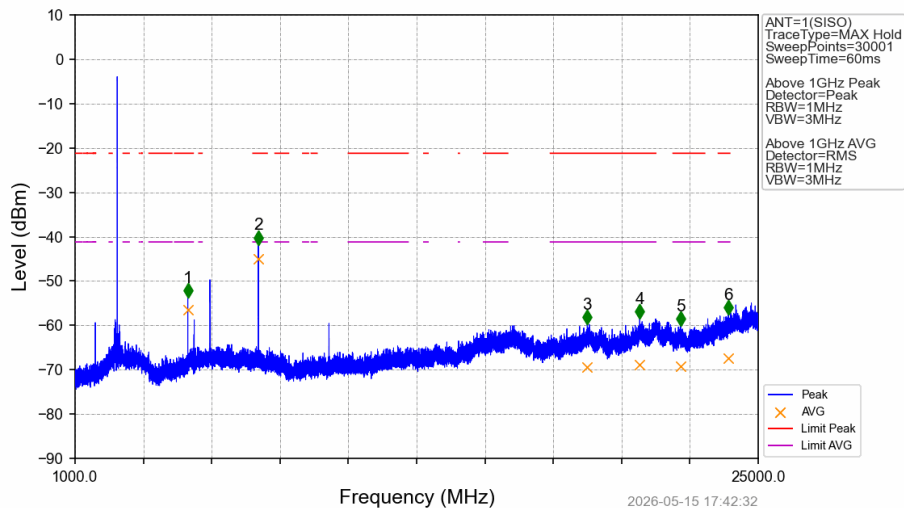


1M_MCH_2440MHz_Ant1_NTNV



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	-53.78	-21.20	32.58	Pass	Peak	7	4880.8	-56.63	-41.20	15.43	Pass	AVG
2	7320.8	-39.91	-21.20	18.71	Pass	Peak	8	7320.8	-42.38	-41.20	1.18	Pass	AVG
3	19009.6	-60.01	-21.20	38.81	Pass	Peak	9	19009.6	-69.53	-41.20	28.33	Pass	AVG
4	21325.6	-58.28	-21.20	37.08	Pass	Peak	10	21325.6	-68.51	-41.20	27.31	Pass	AVG
5	22242.4	-58.91	-21.20	37.71	Pass	Peak	11	22242.4	-69.22	-41.20	28.02	Pass	AVG
6	23605.6	-57.05	-21.20	35.85	Pass	Peak	12	23605.6	-67.94	-41.20	26.74	Pass	AVG

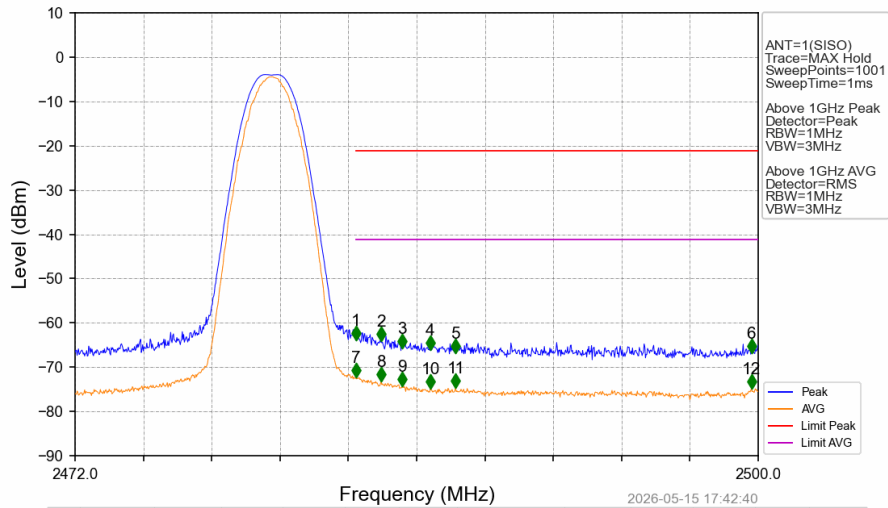
1M_HCH_2480MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4960.8	-53.64	-21.20	32.44	Pass	Peak	7	4960.8	-56.44	-41.20	15.24	Pass	AVG
2	7440	-41.77	-21.20	20.57	Pass	Peak	8	7440	-44.98	-41.20	3.78	Pass	AVG
3	18994.4	-59.76	-21.20	38.56	Pass	Peak	9	18994.4	-69.36	-41.20	28.16	Pass	AVG
4	20836.8	-58.41	-21.20	37.21	Pass	Peak	10	20836.8	-68.85	-41.20	27.65	Pass	AVG
5	22274.4	-60.07	-21.20	38.87	Pass	Peak	11	22274.4	-69.21	-41.20	28.01	Pass	AVG
6	23949.6	-57.52	-21.20	36.32	Pass	Peak	12	23949.6	-67.42	-41.20	26.22	Pass	AVG

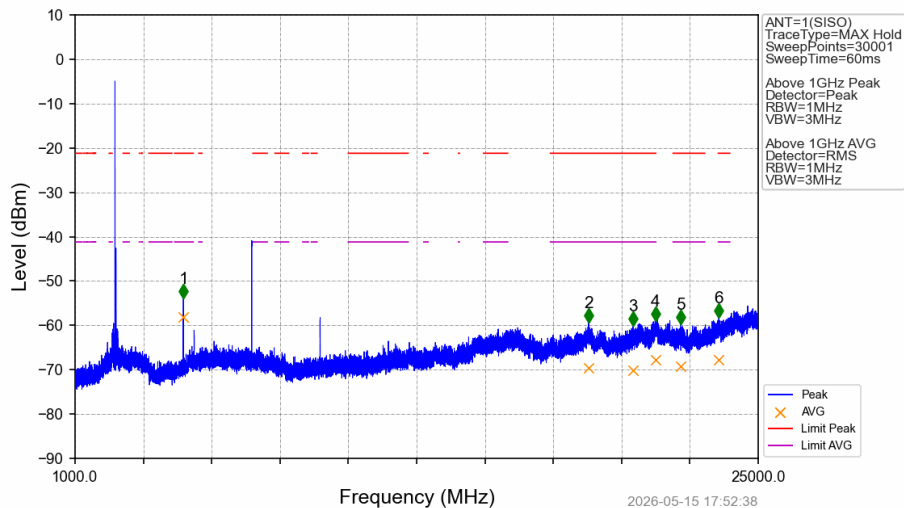


1M_HCH_2480MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2483.508	-63.94	-21.20	42.74	Pass	Peak	7	2483.508	-72.36	-41.20	31.16	Pass	AVG
2	2484.544	-64.06	-21.20	42.86	Pass	Peak	8	2484.544	-73.14	-41.20	31.94	Pass	AVG
3	2485.412	-65.71	-21.20	44.51	Pass	Peak	9	2485.412	-74.22	-41.20	33.02	Pass	AVG
4	2486.560	-66.02	-21.20	44.82	Pass	Peak	10	2486.560	-74.78	-41.20	33.58	Pass	AVG
5	2487.596	-66.83	-21.20	45.63	Pass	Peak	11	2487.596	-74.72	-41.20	33.52	Pass	AVG
6	2499.720	-66.76	-21.20	45.56	Pass	Peak	12	2499.720	-74.84	-41.20	33.64	Pass	AVG

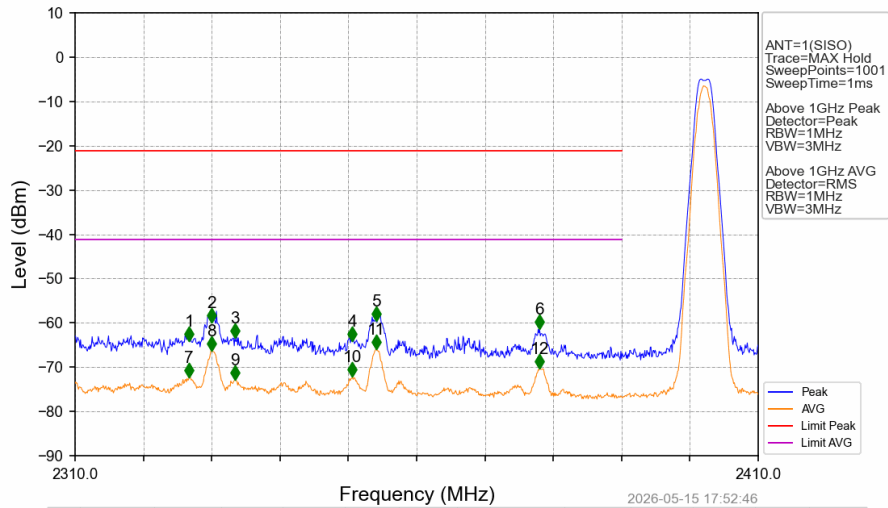
2M_LCH_2402MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4805.6	-53.93	-21.20	32.73	Pass	Peak	7	4805.6	-58.17	-41.20	16.97	Pass	AVG
2	19041.6	-59.39	-21.20	38.19	Pass	Peak	8	19041.6	-69.51	-41.20	28.31	Pass	AVG
3	20603.2	-60.07	-21.20	38.87	Pass	Peak	9	20603.2	-70.12	-41.20	28.92	Pass	AVG
4	21390.4	-58.94	-21.20	37.74	Pass	Peak	10	21390.4	-67.72	-41.20	26.52	Pass	AVG
5	22263.2	-59.75	-21.20	38.55	Pass	Peak	11	22263.2	-69.30	-41.20	28.10	Pass	AVG
6	23614.4	-58.25	-21.20	37.05	Pass	Peak	12	23614.4	-67.73	-41.20	26.53	Pass	AVG

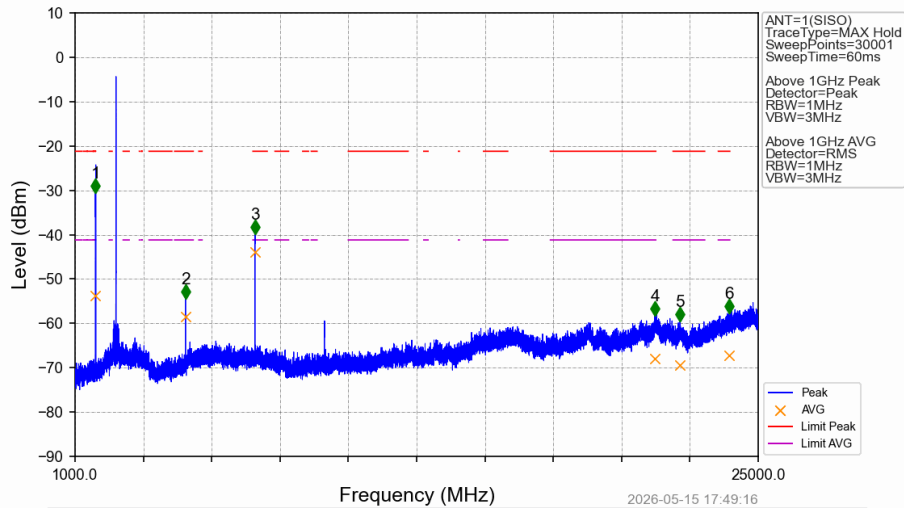


2M_LCH_2402MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2326.700	-64.02	-21.20	42.82	Pass	Peak	7	2326.700	-72.28	-41.20	31.08	Pass	AVG
2	2330.000	-59.91	-21.20	38.71	Pass	Peak	8	2330.000	-66.20	-41.20	25.00	Pass	AVG
3	2333.400	-63.30	-21.20	42.10	Pass	Peak	9	2333.400	-72.86	-41.20	31.66	Pass	AVG
4	2350.600	-64.06	-21.20	42.86	Pass	Peak	10	2350.600	-72.15	-41.20	30.95	Pass	AVG
5	2354.100	-59.48	-21.20	38.28	Pass	Peak	11	2354.100	-65.98	-41.20	24.78	Pass	AVG
6	2378.000	-61.40	-21.20	40.20	Pass	Peak	12	2378.000	-70.21	-41.20	29.01	Pass	AVG

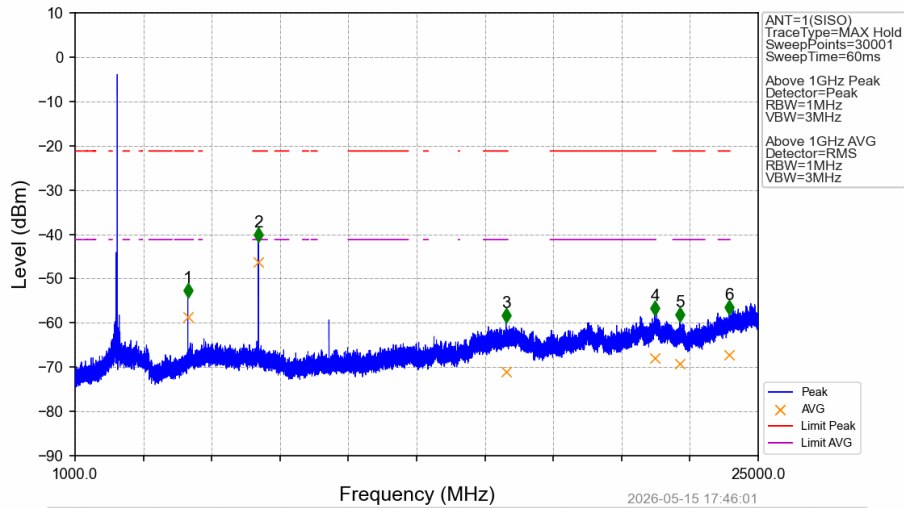
2M_MCH_2440MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	1720	-30.51	-21.20	9.31	Pass	Peak	7	1720	-53.69	-41.20	12.49	Pass	AVG
2	4881.6	-54.51	-21.20	33.31	Pass	Peak	8	4881.6	-58.42	-41.20	17.22	Pass	AVG
3	7319.2	-39.91	-21.20	18.71	Pass	Peak	9	7319.2	-43.89	-41.20	2.69	Pass	AVG
4	21372.8	-58.19	-21.20	36.99	Pass	Peak	10	21372.8	-68.02	-41.20	26.82	Pass	AVG
5	22250.4	-59.54	-21.20	38.34	Pass	Peak	11	22250.4	-69.45	-41.20	28.25	Pass	AVG
6	23972.8	-57.64	-21.20	36.44	Pass	Peak	12	23972.8	-67.22	-41.20	26.02	Pass	AVG

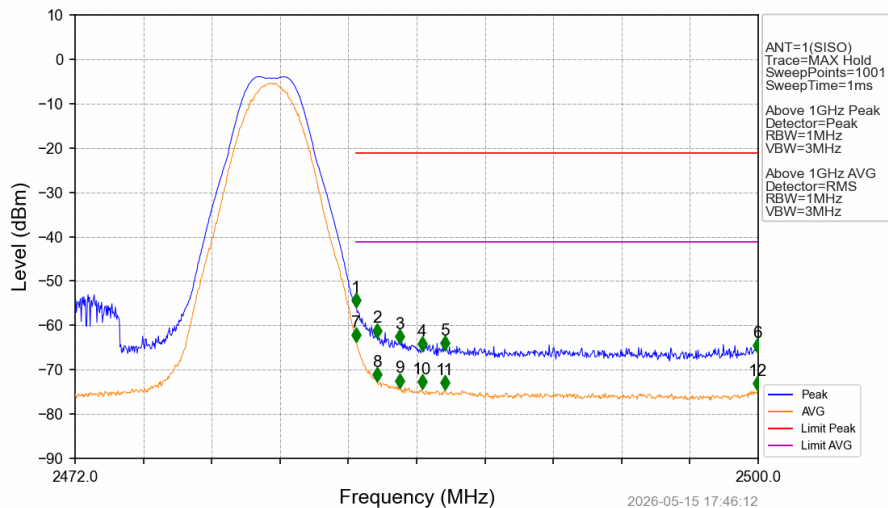


2M_HCH_2480MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4961.6	-54.28	-21.20	33.08	Pass	Peak	7	4961.6	-58.65	-41.20	17.45	Pass	AVG
2	7439.2	-41.64	-21.20	20.44	Pass	Peak	8	7439.2	-46.32	-41.20	5.12	Pass	AVG
3	16141.6	-59.82	-21.20	38.62	Pass	Peak	9	16141.6	-71.11	-41.20	29.91	Pass	AVG
4	21376.8	-58.23	-21.20	37.03	Pass	Peak	10	21376.8	-68.02	-41.20	26.82	Pass	AVG
5	22236.8	-59.75	-21.20	38.55	Pass	Peak	11	22236.8	-69.31	-41.20	28.11	Pass	AVG
6	23966.4	-58.10	-21.20	36.90	Pass	Peak	12	23966.4	-67.18	-41.20	25.98	Pass	AVG

2M_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	2483.508	-55.83	-21.20	34.63	Pass	Peak	7	2483.508	-63.71	-41.20	22.51	Pass	AVG
2	2484.376	-62.71	-21.20	41.51	Pass	Peak	8	2484.376	-72.60	-41.20	31.40	Pass	AVG
3	2485.300	-64.04	-21.20	42.84	Pass	Peak	9	2485.300	-74.01	-41.20	32.81	Pass	AVG
4	2486.224	-65.74	-21.20	44.54	Pass	Peak	10	2486.224	-74.29	-41.20	33.09	Pass	AVG
5	2487.148	-65.45	-21.20	44.25	Pass	Peak	11	2487.148	-74.42	-41.20	33.22	Pass	AVG
6	2499.972	-66.16	-21.20	44.96	Pass	Peak	12	2499.972	-74.65	-41.20	33.45	Pass	AVG