

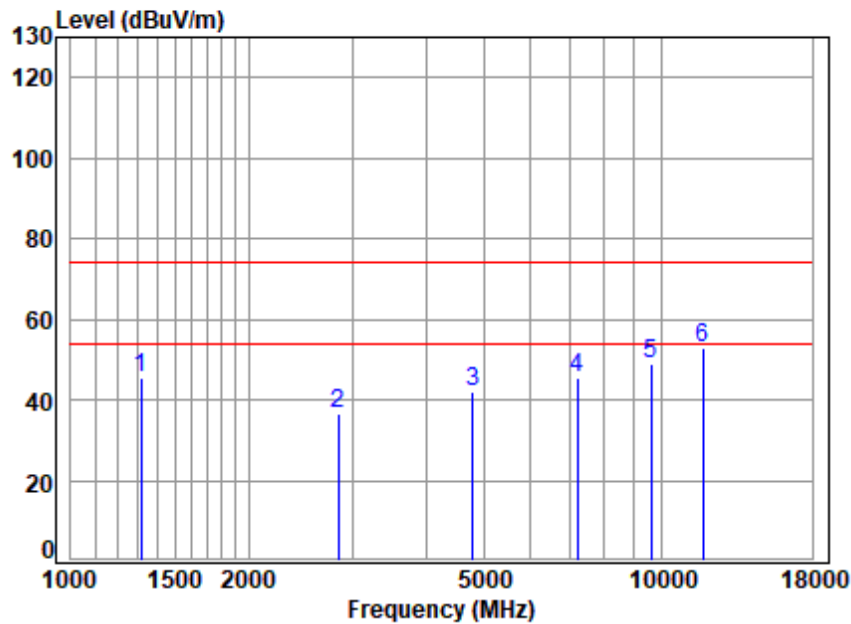
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230300056703

Page: 70 of 139

Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00567AT/00568AT
Mode : 2402 TX RSE
Note : BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1315.985	2.98	24.76	38.64	56.48	45.58	74.00	-28.42	peak
2	2838.921	4.67	29.66	39.43	41.58	36.48	74.00	-37.52	Peak
3	4804.000	7.04	33.82	40.87	41.87	41.86	74.00	-32.14	peak
4	7206.000	8.52	35.80	40.47	41.48	45.33	74.00	-28.67	peak
5	9608.000	10.39	37.10	37.05	38.55	48.99	74.00	-25.01	peak
6	11769.210	11.75	38.00	37.29	40.27	52.73	74.00	-21.27	Peak



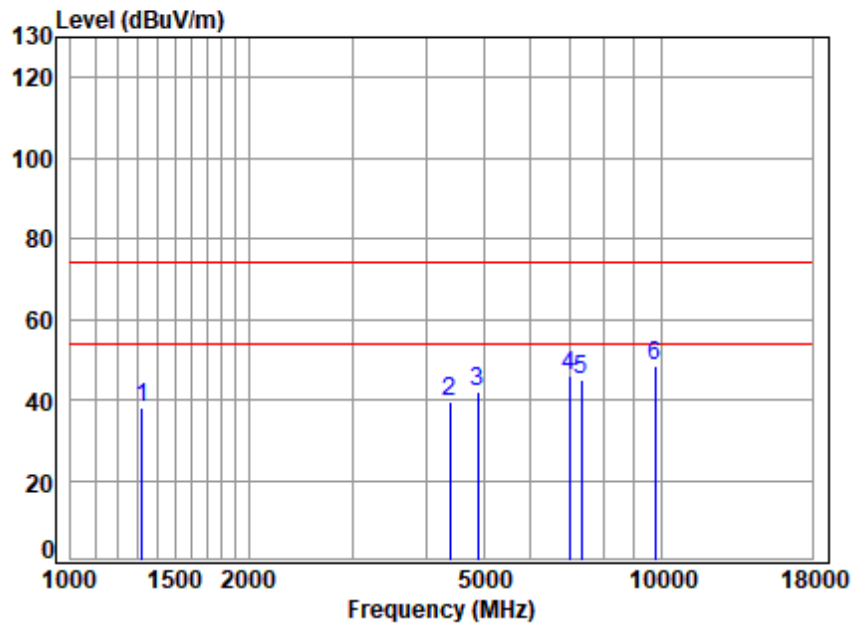
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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00567AT/00568AT
Mode : 2440 TX RSE
Note : BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.794	2.99	24.78	38.64	48.91	38.04	74.00	-35.96	peak
2	4379.699	6.66	33.54	40.58	39.97	39.59	74.00	-34.41	peak
3	4880.000	7.11	34.06	40.92	41.63	41.88	74.00	-32.12	peak
4	6995.172	8.32	35.79	40.60	42.61	46.12	74.00	-27.88	peak
5	7320.000	8.62	35.90	40.40	41.07	45.19	74.00	-28.81	peak
6	9760.000	10.45	37.20	36.79	37.76	48.62	74.00	-25.38	peak



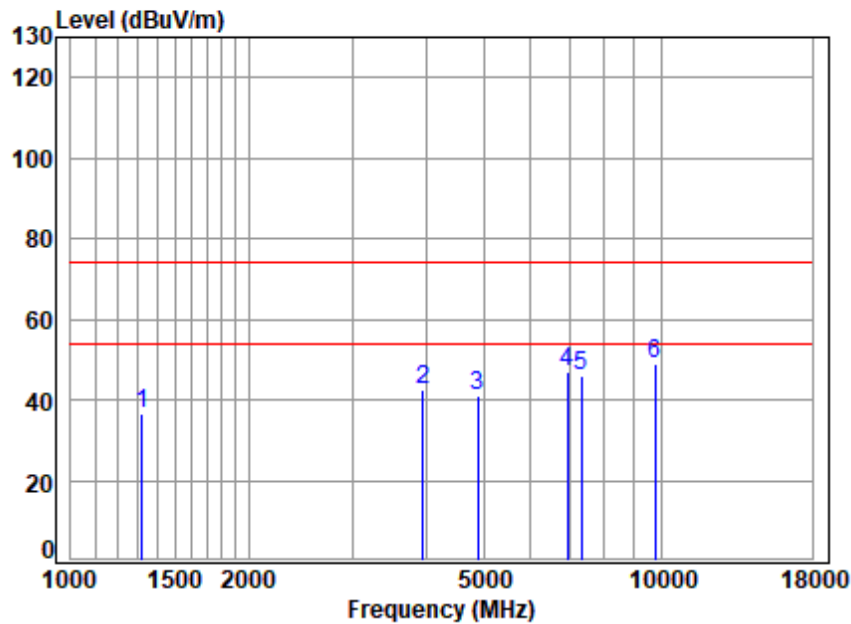
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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00567AT/00568AT
Mode : 2440 TX RSE
Note : BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.794	2.99	24.78	38.64	47.21	36.34	74.00	-37.66	peak
2	3946.885	6.21	32.60	40.26	43.79	42.34	74.00	-31.66	peak
3	4880.000	7.11	34.06	40.92	40.66	40.91	74.00	-33.09	peak
4	6934.778	8.31	35.67	40.65	43.48	46.81	74.00	-27.19	peak
5	7320.000	8.62	35.90	40.40	42.07	46.19	74.00	-27.81	peak
6	9760.000	10.45	37.20	36.79	38.06	48.92	74.00	-25.08	peak



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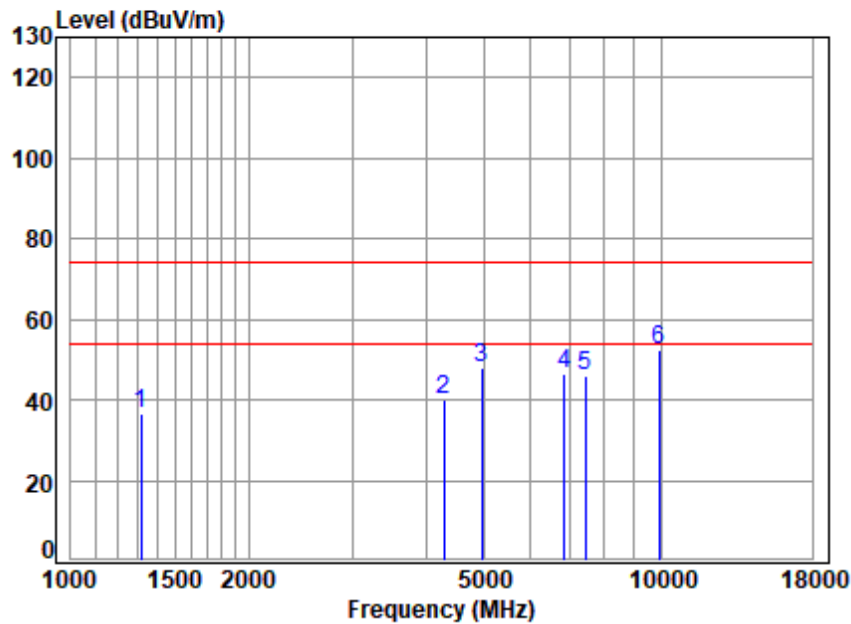
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Report No.: SZCR230300056703

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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00567AT/00568AT
Mode : 2480 TX RSE
Note : BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1315.985	2.98	24.76	38.64	47.67	36.77	74.00	-37.23	peak
2	4279.589	6.56	33.60	40.51	40.60	40.25	74.00	-33.75	peak
3	4960.000	7.18	34.22	40.97	47.55	47.98	74.00	-26.02	peak
4	6855.063	8.30	35.60	40.71	43.45	46.64	74.00	-27.36	peak
5	7440.000	8.73	35.90	40.33	41.69	45.99	74.00	-28.01	peak
6	9920.000	10.52	37.30	36.53	40.87	52.16	74.00	-21.84	peak

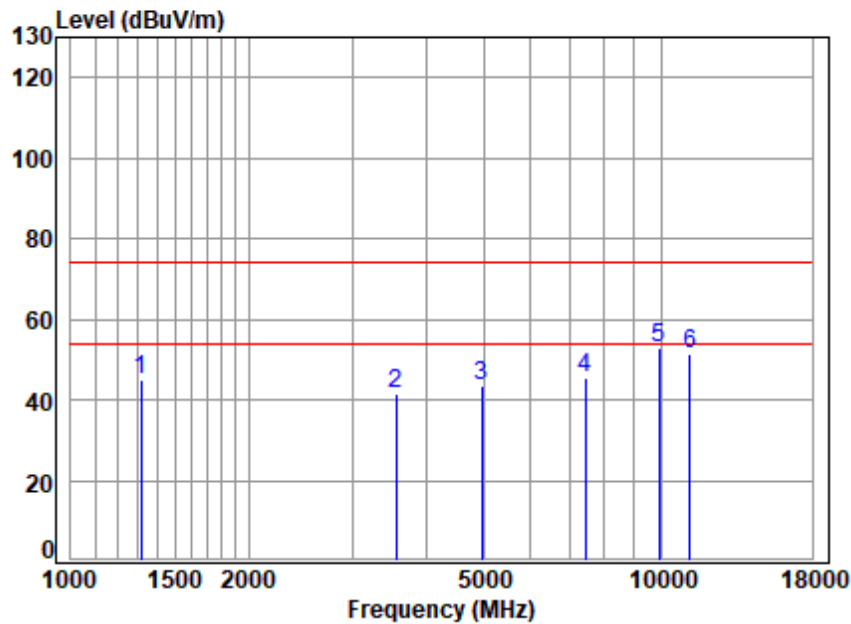


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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00567AT/00568AT
Mode : 2480 TX RSE
Note : BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1315.985	2.98	24.76	38.64	55.97	45.07	74.00	-28.93	peak
2	3556.843	5.68	31.81	39.97	43.88	41.40	74.00	-32.60	peak
3	4960.000	7.18	34.22	40.97	42.83	43.26	74.00	-30.74	peak
4	7440.000	8.73	35.90	40.33	41.34	45.64	74.00	-28.36	peak
5	9920.000	10.52	37.30	36.53	41.39	52.68	74.00	-21.32	peak
6	11172.560	11.37	37.80	37.01	39.31	51.47	74.00	-22.53	Peak



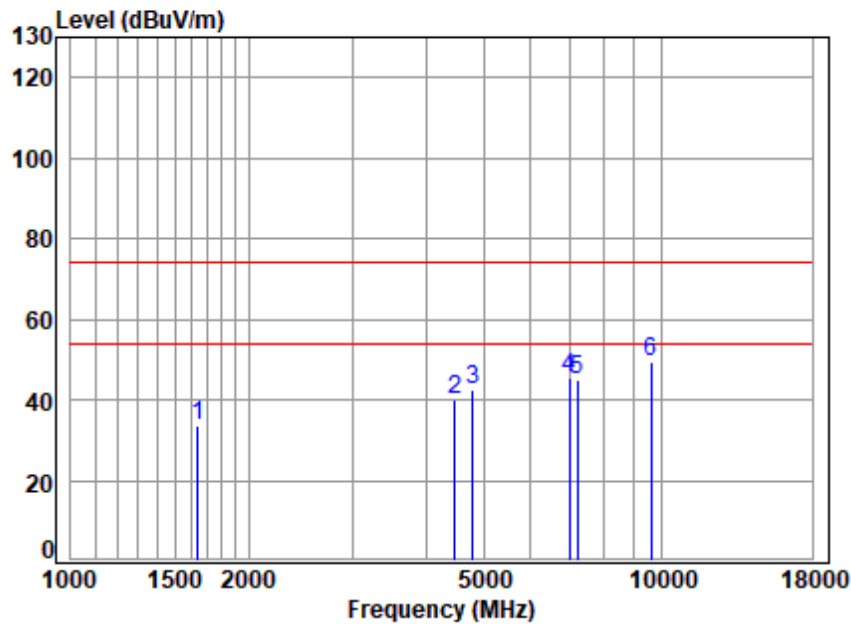
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Report No.: SZCR230300056703

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Test Mode: 10; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00567AT/00568AT
Mode : 2402 TX RSE
Note : BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1639.274	3.42	26.66	38.83	42.31	33.56	74.00	-40.44	peak
2	4469.214	6.74	33.50	40.65	40.32	39.91	74.00	-34.09	peak
3	4804.000	7.04	33.82	40.87	42.35	42.34	74.00	-31.66	peak
4	6974.982	8.32	35.75	40.62	41.96	45.41	74.00	-28.59	peak
5	7206.000	8.52	35.80	40.47	41.21	45.06	74.00	-28.94	peak
6	9608.000	10.39	37.10	37.05	39.11	49.55	74.00	-24.45	peak



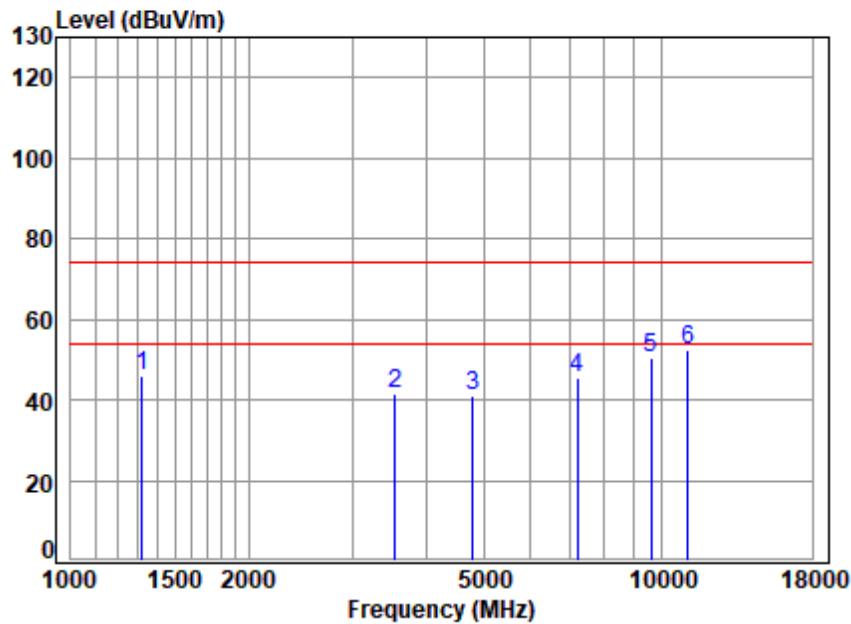
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Test Mode: 10; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00567AT/00568AT
Mode : 2402 TX RSE
Note : BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.794	2.99	24.78	38.64	56.66	45.79	74.00	-28.21	peak
2	3546.577	5.67	31.80	39.97	43.97	41.47	74.00	-32.53	Peak
3	4804.000	7.04	33.82	40.87	41.14	41.13	74.00	-32.87	peak
4	7206.000	8.52	35.80	40.47	41.49	45.34	74.00	-28.66	peak
5	9608.000	10.39	37.10	37.05	40.12	50.56	74.00	-23.44	peak
6	11108.160	11.33	37.80	36.98	40.06	52.21	74.00	-21.79	Peak



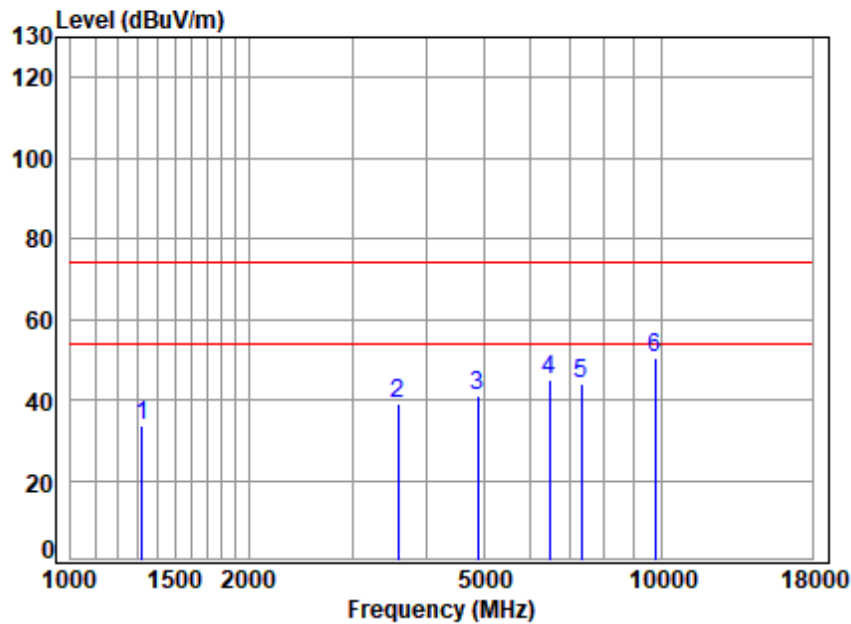
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Test Mode: 10; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00567AT/00568AT
Mode : 2440 TX RSE
Note : BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.794	2.99	24.78	38.64	44.71	33.84	74.00	-40.16	peak
2	3577.463	5.71	31.86	39.99	41.27	38.85	74.00	-35.15	peak
3	4880.000	7.11	34.06	40.92	40.55	40.80	74.00	-33.20	peak
4	6470.026	8.24	35.44	41.01	42.27	44.94	74.00	-29.06	peak
5	7320.000	8.62	35.90	40.40	39.85	43.97	74.00	-30.03	peak
6	9760.000	10.45	37.20	36.79	39.72	50.58	74.00	-23.42	peak

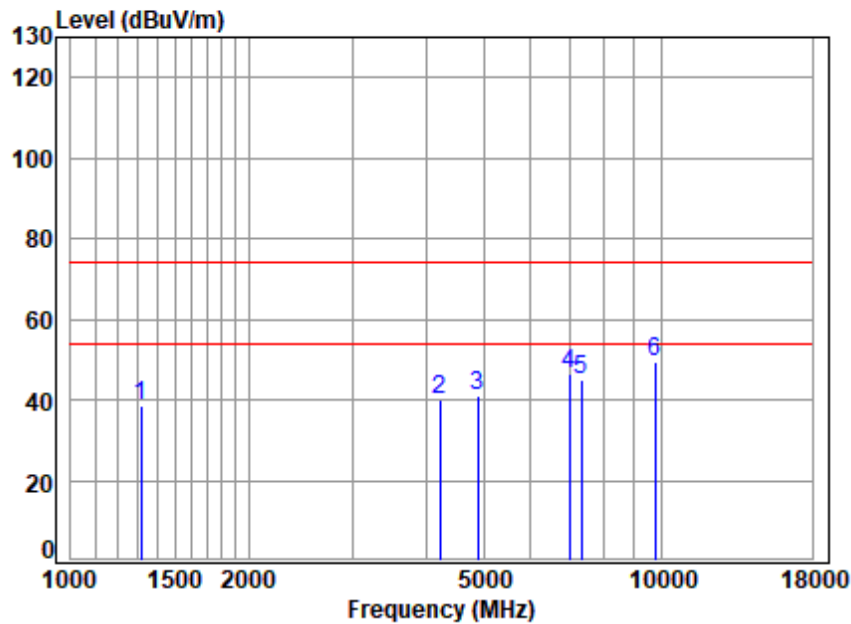


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Test Mode: 10; Polarity: Vertical; Modulation:GFSK; Channel:middle

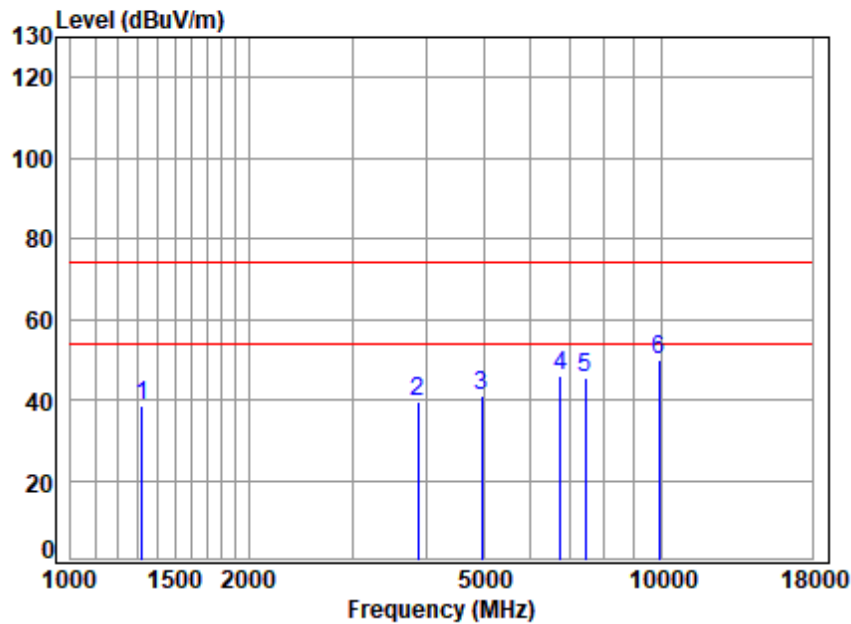


Site : chamber
Condition: 3m VERTICAL
Job No : 00567AT/00568AT
Mode : 2440 TX RSE
Note : BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1315.985	2.98	24.76	38.64	49.34	38.44	74.00	-35.56	peak
2	4218.186	6.50	33.47	40.47	40.34	39.84	74.00	-34.16	peak
3	4880.000	7.11	34.06	40.92	40.64	40.89	74.00	-33.11	peak
4	6974.982	8.32	35.75	40.62	42.97	46.42	74.00	-27.58	peak
5	7320.000	8.62	35.90	40.40	41.05	45.17	74.00	-28.83	peak
6	9760.000	10.45	37.20	36.79	38.39	49.25	74.00	-24.75	peak



Test Mode: 10; Polarity: Horizontal; Modulation:GFSK; Channel:High

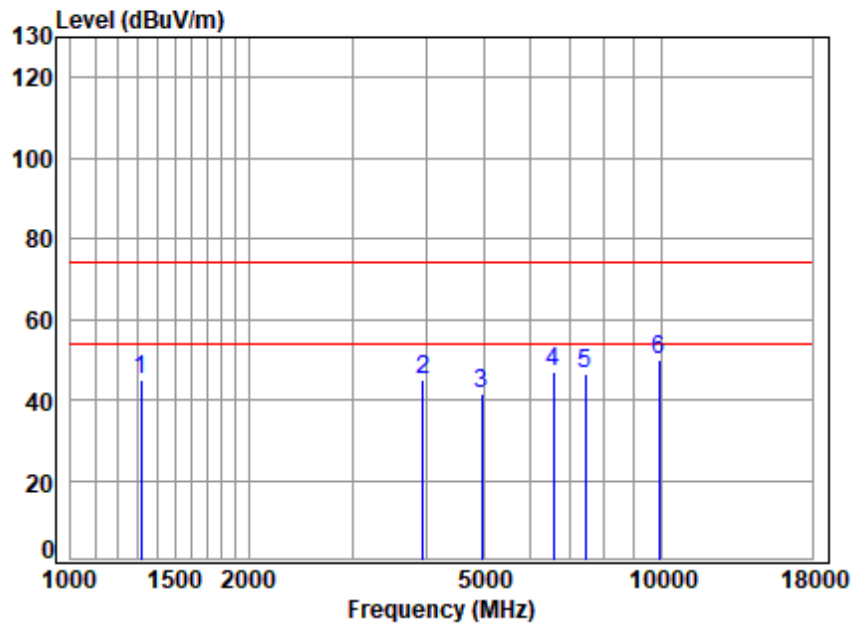


Site : chamber
Condition: 3m HORIZONTAL
Job No : 00567AT/00568AT
Mode : 2480 TX RSE
Note : BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.794	2.99	24.78	38.64	49.34	38.47	74.00	-35.53	peak
2	3867.831	6.11	32.66	40.21	40.94	39.50	74.00	-34.50	peak
3	4960.000	7.18	34.22	40.97	40.47	40.90	74.00	-33.10	peak
4	6737.207	8.28	35.53	40.80	42.95	45.96	74.00	-28.04	peak
5	7440.000	8.73	35.90	40.33	41.00	45.30	74.00	-28.70	peak
6	9920.000	10.52	37.30	36.53	38.73	50.02	74.00	-23.98	peak



Test Mode: 10; Polarity: Vertical; Modulation:GFSK; Channel:High

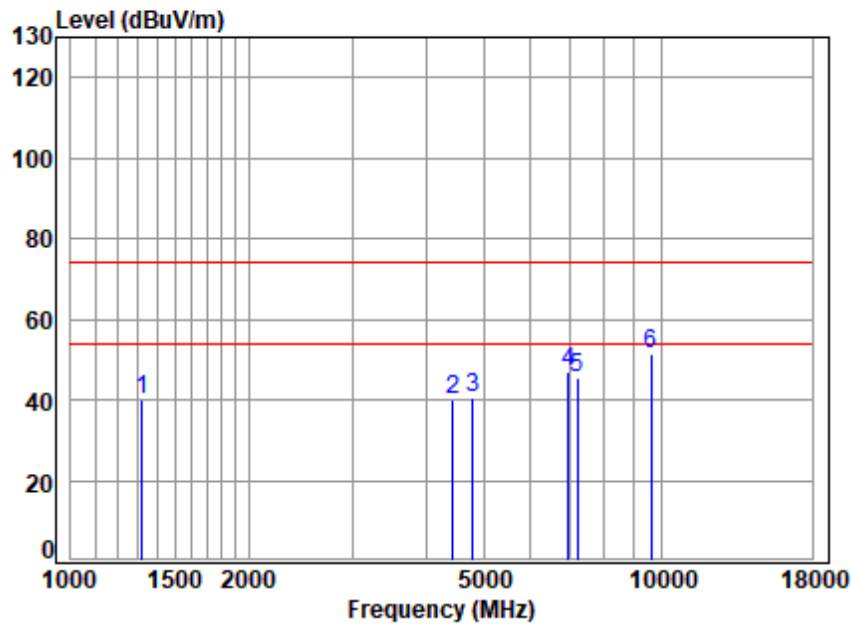


Site : chamber
Condition: 3m VERTICAL
Job No : 00567AT/00568AT
Mode : 2480 TX RSE
Note : BLE 1M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1315.985	2.98	24.76	38.64	55.85	44.95	74.00	-29.05	peak
2	3946.885	6.21	32.60	40.26	46.59	45.14	74.00	-28.86	peak
3	4960.000	7.18	34.22	40.97	41.10	41.53	74.00	-32.47	peak
4	6564.209	8.25	35.60	40.93	43.89	46.81	74.00	-27.19	peak
5	7440.000	8.73	35.90	40.33	42.38	46.68	74.00	-27.32	peak
6	9920.000	10.52	37.30	36.53	38.46	49.75	74.00	-24.25	peak



Test Mode: 11; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00567AT/00568AT
Mode : 2402 TX RSE
Note : BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.794	2.99	24.78	38.64	50.66	39.79	74.00	-34.21	peak
2	4430.628	6.71	33.50	40.62	40.61	40.20	74.00	-33.80	peak
3	4804.000	7.04	33.82	40.87	40.55	40.54	74.00	-33.46	peak
4	6954.852	8.31	35.71	40.63	43.33	46.72	74.00	-27.28	peak
5	7206.000	8.52	35.80	40.47	41.67	45.52	74.00	-28.48	peak
6	9608.000	10.39	37.10	37.05	40.96	51.40	74.00	-22.60	peak



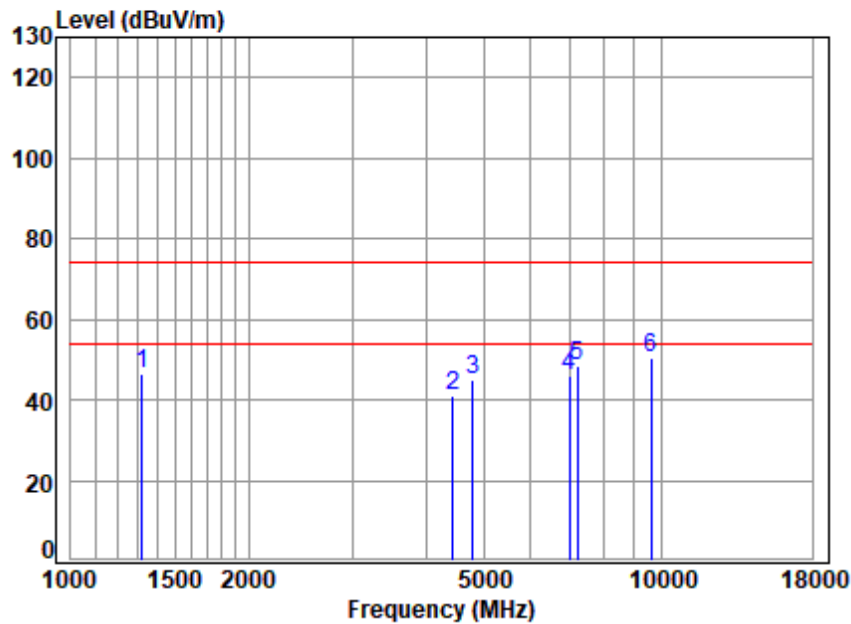
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Test Mode: 11; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00567AT/00568AT
Mode : 2402 TX RSE
Note : BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.794	2.99	24.78	38.64	57.54	46.67	74.00	-27.33	peak
2	4443.453	6.72	33.50	40.63	41.40	40.99	74.00	-33.01	peak
3	4804.000	7.04	33.82	40.87	45.13	45.12	74.00	-28.88	peak
4	6974.982	8.32	35.75	40.62	42.64	46.09	74.00	-27.91	peak
5	7206.000	8.52	35.80	40.47	44.66	48.51	74.00	-25.49	peak
6	9608.000	10.39	37.10	37.05	39.97	50.41	74.00	-23.59	peak

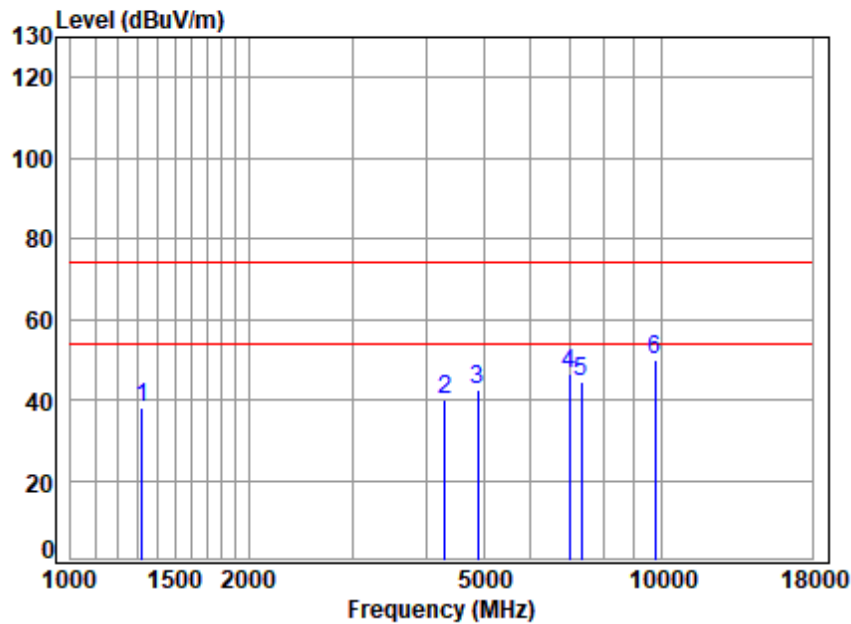


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Test Mode: 11; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00567AT/00568AT
Mode : 2440 TX RSE
Note : BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.794	2.99	24.78	38.64	48.95	38.08	74.00	-35.92	peak
2	4304.400	6.59	33.60	40.53	40.25	39.91	74.00	-34.09	peak
3	4880.000	7.11	34.06	40.92	42.20	42.45	74.00	-31.55	peak
4	6974.982	8.32	35.75	40.62	42.83	46.28	74.00	-27.72	peak
5	7320.000	8.62	35.90	40.40	40.53	44.65	74.00	-29.35	peak
6	9760.000	10.45	37.20	36.79	38.97	49.83	74.00	-24.17	peak



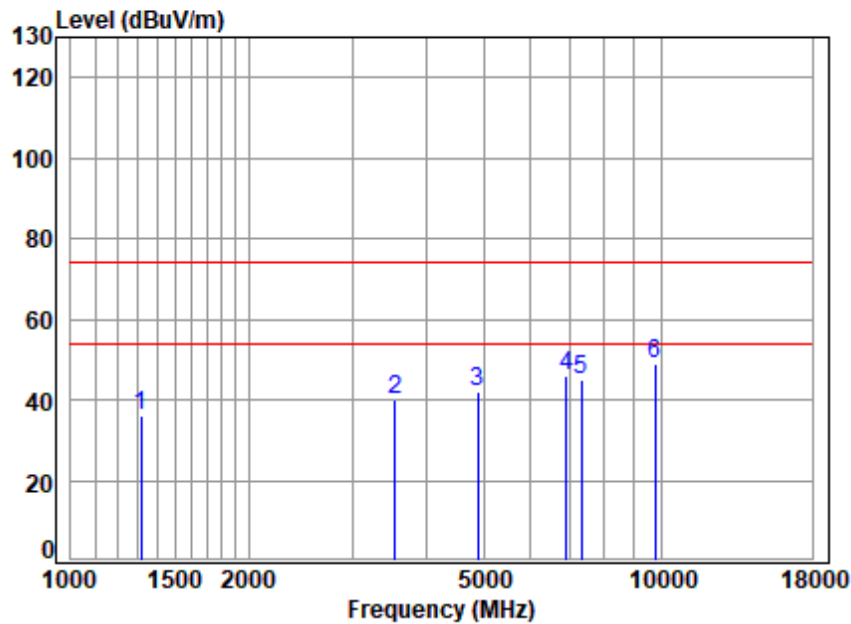
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Report No.: SZCR230300056703

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Test Mode: 11; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00567AT/00568AT
Mode : 2440 TX RSE
Note : BLE 2M

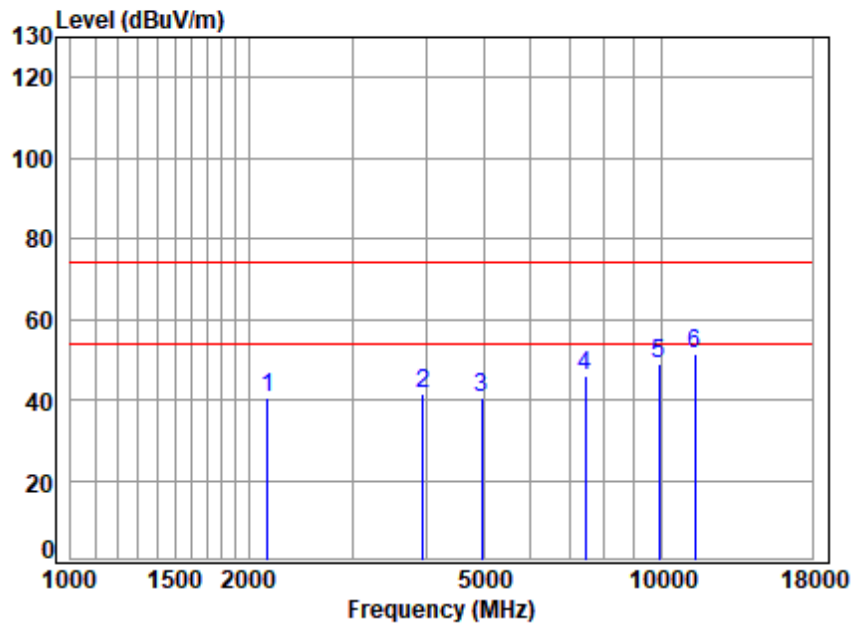
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1315.985	2.98	24.76	38.64	47.16	36.26	74.00	-37.74	peak
2	3536.341	5.65	31.80	39.96	42.46	39.95	74.00	-34.05	peak
3	4880.000	7.11	34.06	40.92	41.61	41.86	74.00	-32.14	peak
4	6914.763	8.31	35.63	40.66	42.67	45.95	74.00	-28.05	peak
5	7320.000	8.62	35.90	40.40	40.73	44.85	74.00	-29.15	peak
6	9760.000	10.45	37.20	36.79	38.29	49.15	74.00	-24.85	peak



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Test Mode: 11; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00567AT/00568AT
Mode : 2480 TX RSE
Note : BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2157.260	4.00	28.29	39.09	47.49	40.69	74.00	-33.31	Peak
2	3946.885	6.21	32.60	40.26	43.03	41.58	74.00	-32.42	peak
3	4960.000	7.18	34.22	40.97	40.12	40.55	74.00	-33.45	peak
4	7440.000	8.73	35.90	40.33	41.88	46.18	74.00	-27.82	peak
5	9920.000	10.52	37.30	36.53	37.83	49.12	74.00	-24.88	peak
6	11400.910	11.52	37.90	37.12	39.25	51.55	74.00	-22.45	Peak



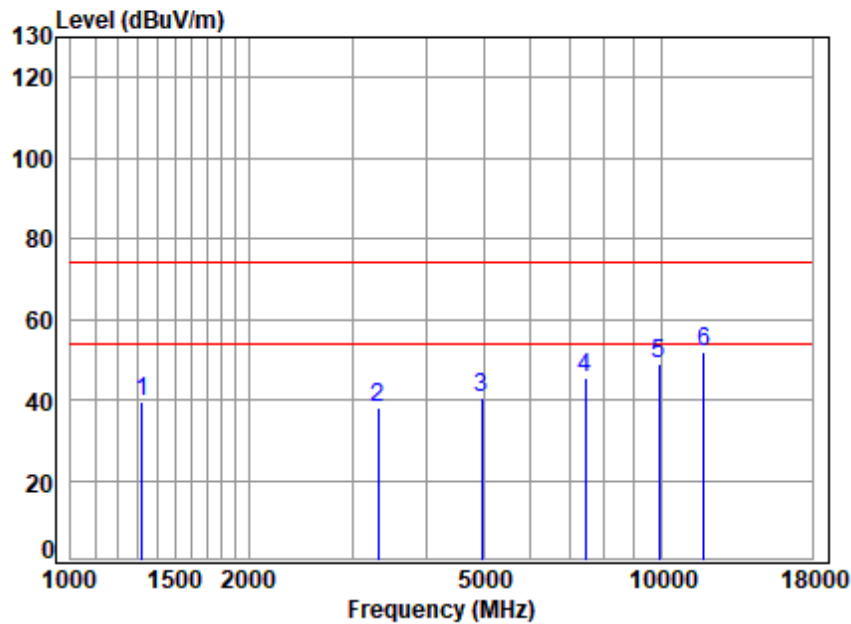
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Test Mode: 11; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00567AT/00568AT
Mode : 2480 TX RSE
Note : BLE 2M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.794	2.99	24.78	38.64	50.27	39.40	74.00	-34.60	peak
2	3318.471	5.33	31.60	39.78	40.73	37.88	74.00	-36.12	Peak
3	4960.000	7.18	34.22	40.97	40.33	40.76	74.00	-33.24	peak
4	7440.000	8.73	35.90	40.33	41.24	45.54	74.00	-28.46	peak
5	9920.000	10.52	37.30	36.53	37.76	49.05	74.00	-24.95	peak
6	11803.280	11.77	38.00	37.31	39.55	52.01	74.00	-21.99	Peak



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2303000567AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2303000567AT



10 Appendix

For right earbuds:

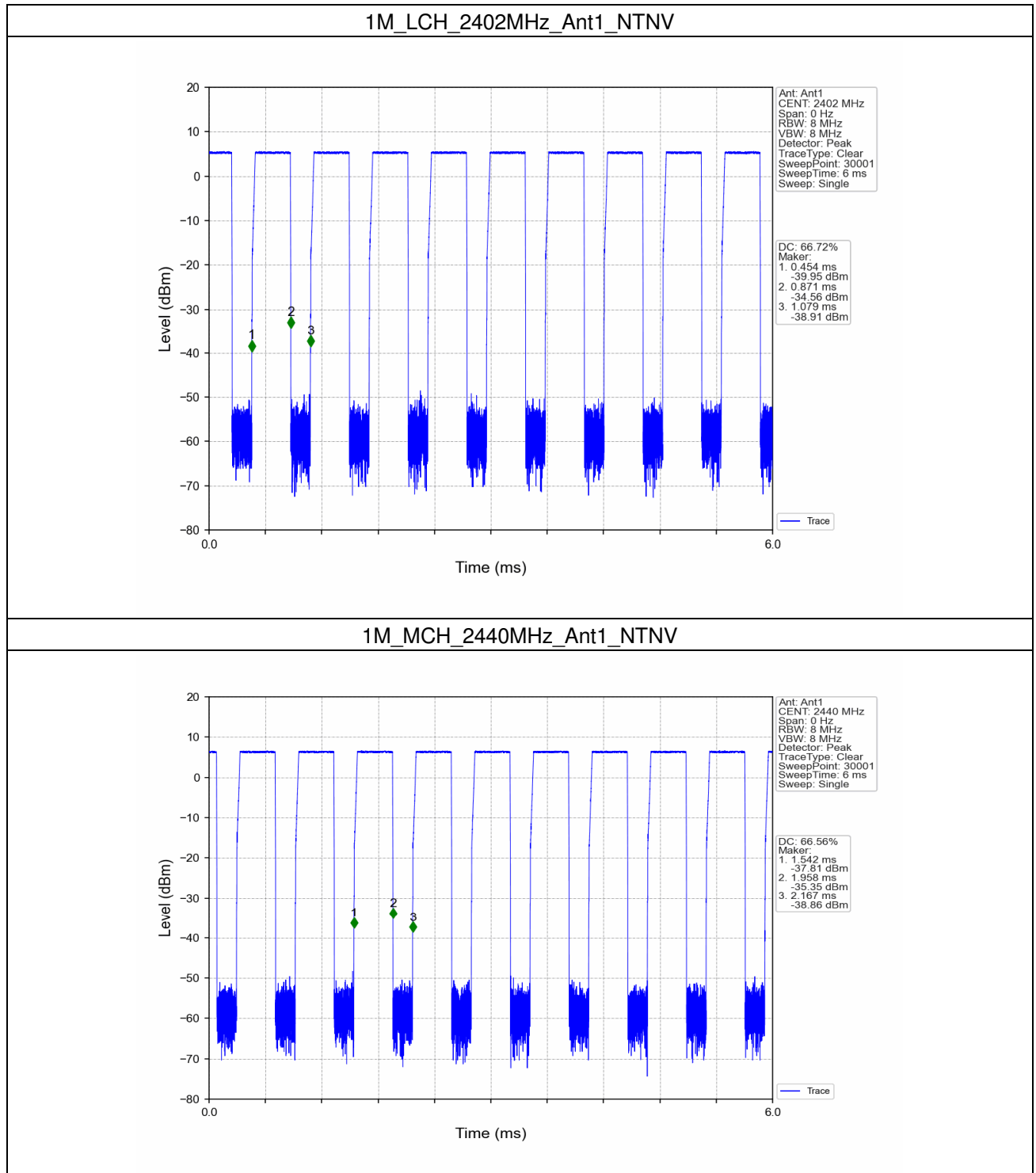
1. Duty Cycle

1.1 Ant1

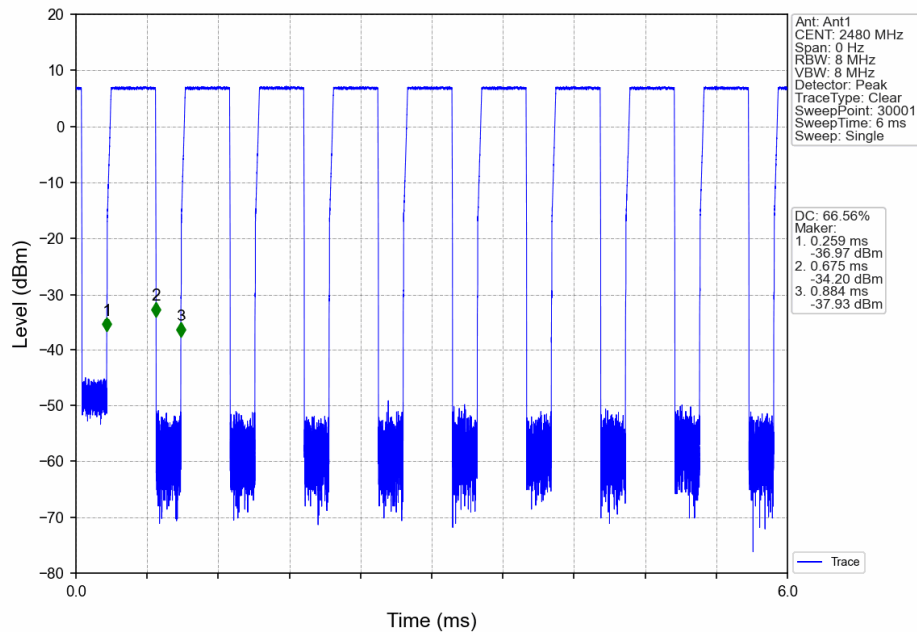
1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.417	0.625	66.72	1.76	0.00
		2440	0.416	0.625	66.56	1.77	0.02
		2480	0.416	0.625	66.56	1.77	0.00
2M	SISO	2402	0.232	0.625	37.12	4.30	0.00
		2440	0.232	0.625	37.12	4.30	0.00
		2480	0.233	0.625	37.28	4.29	0.00

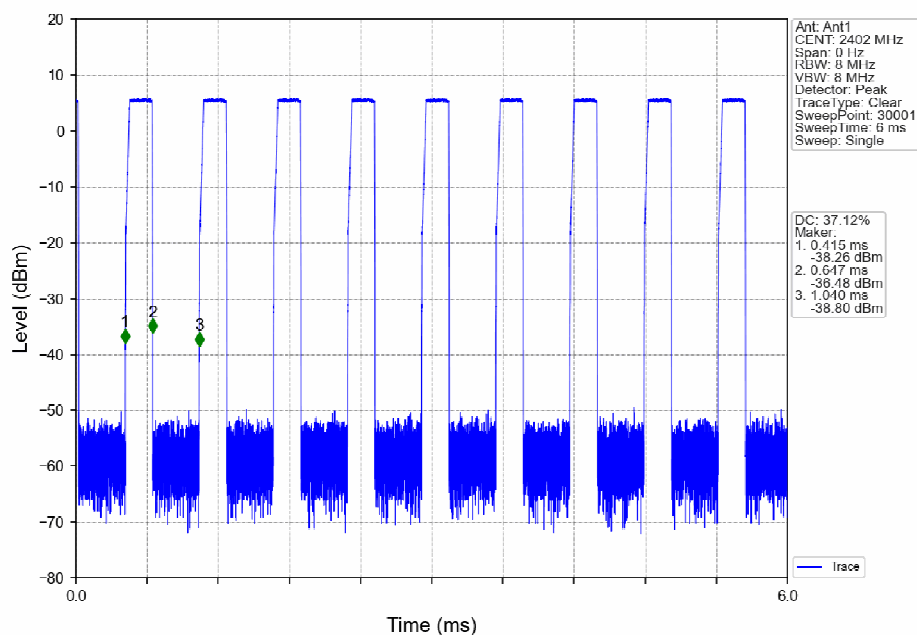
1.1.2 Test Graph



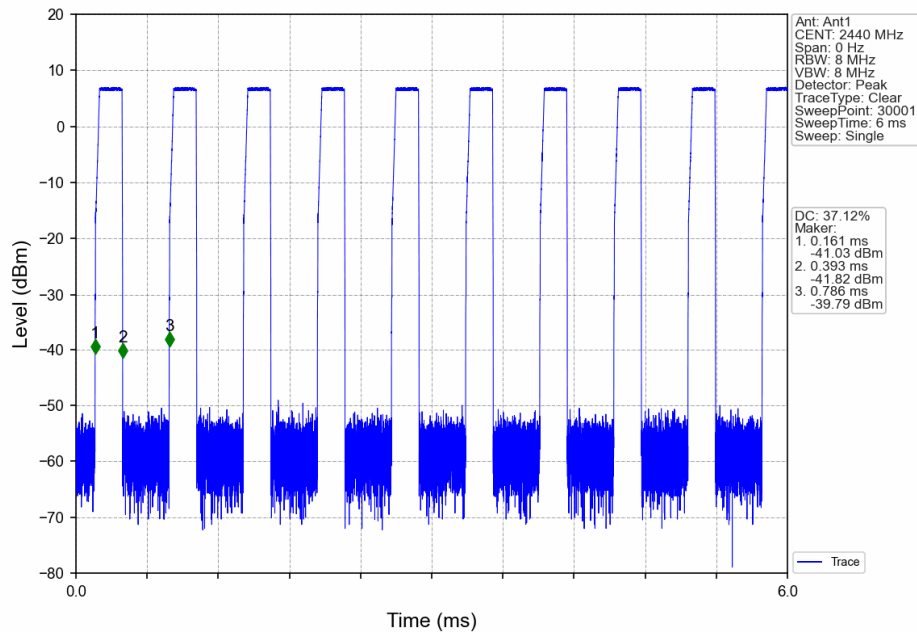
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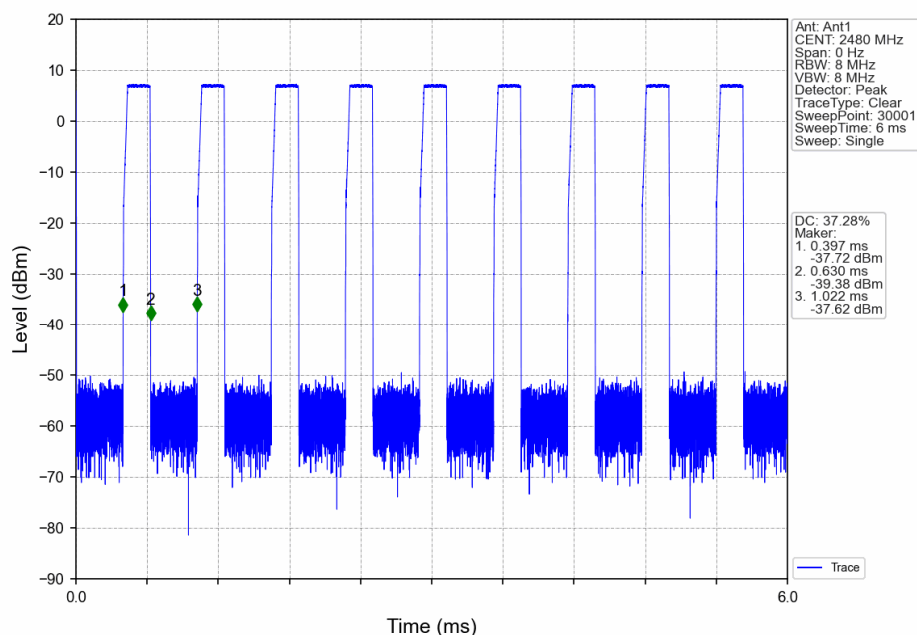
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1M	SISO	2402	1	1.015	Pass
		2440	1	1.015	Pass
		2480	1	1.014	Pass
2M	SISO	2402	1	1.991	Pass
		2440	1	1.992	Pass
		2480	1	1.991	Pass

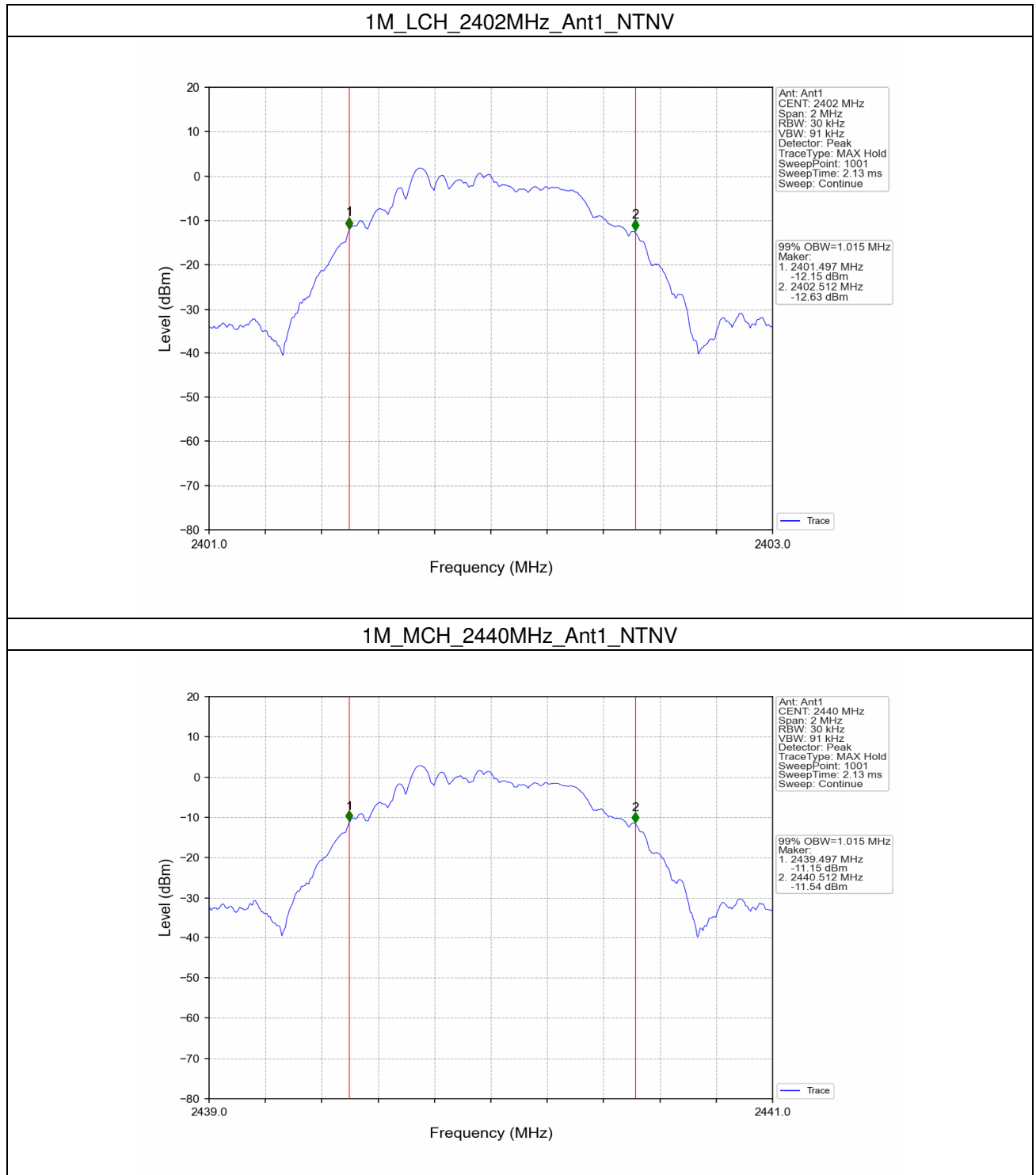


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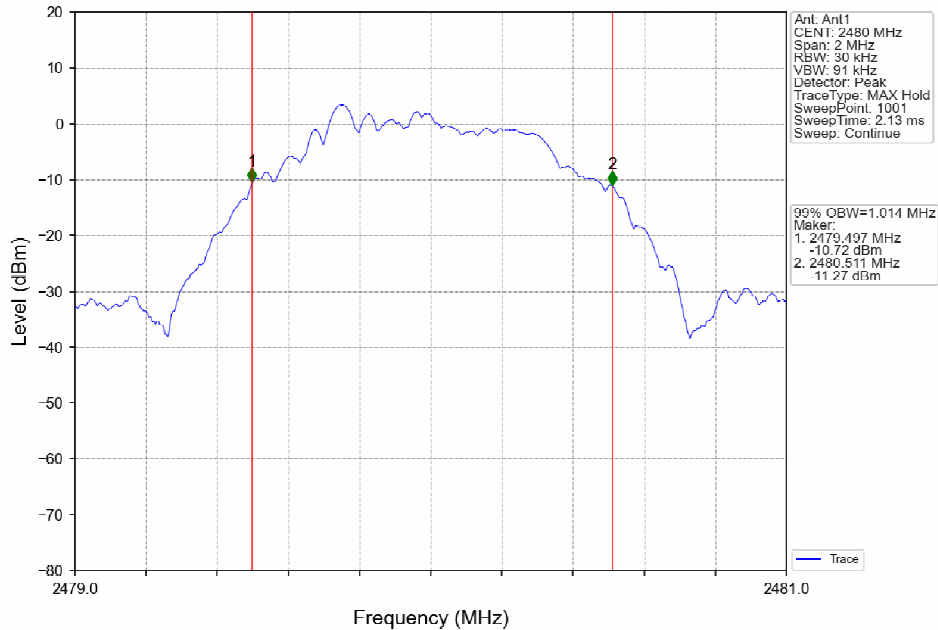
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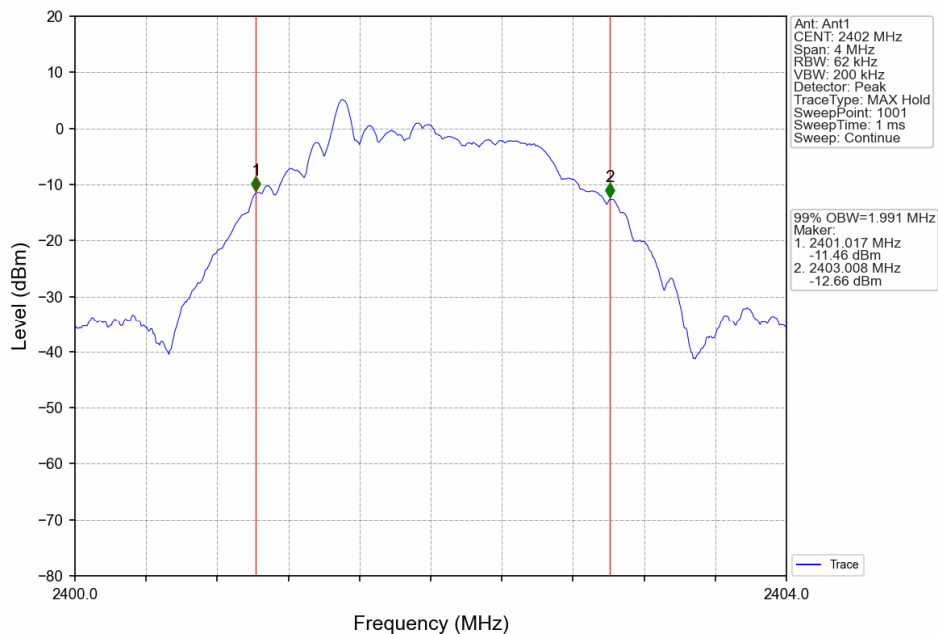
2.1.2 Test Graph



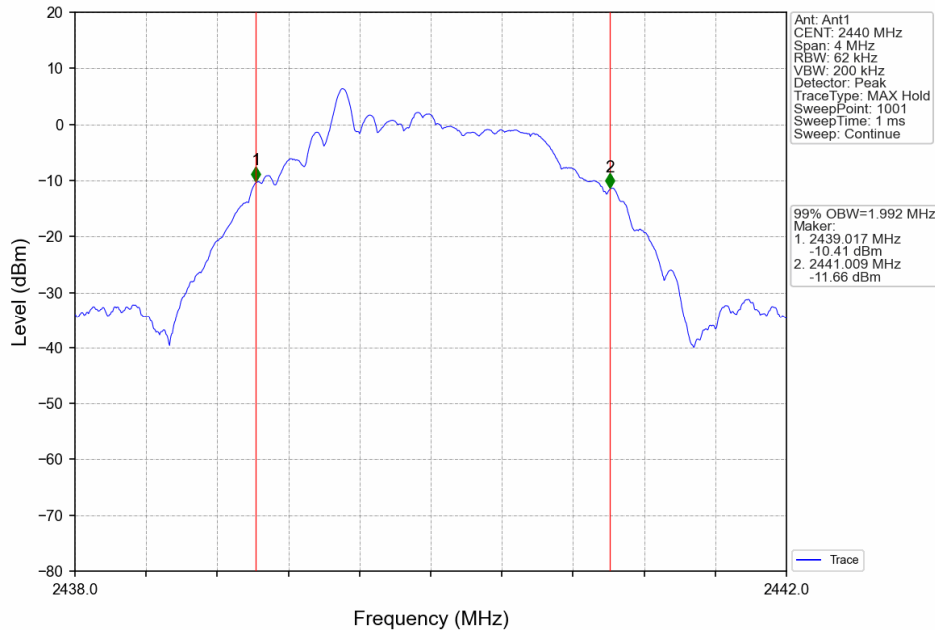
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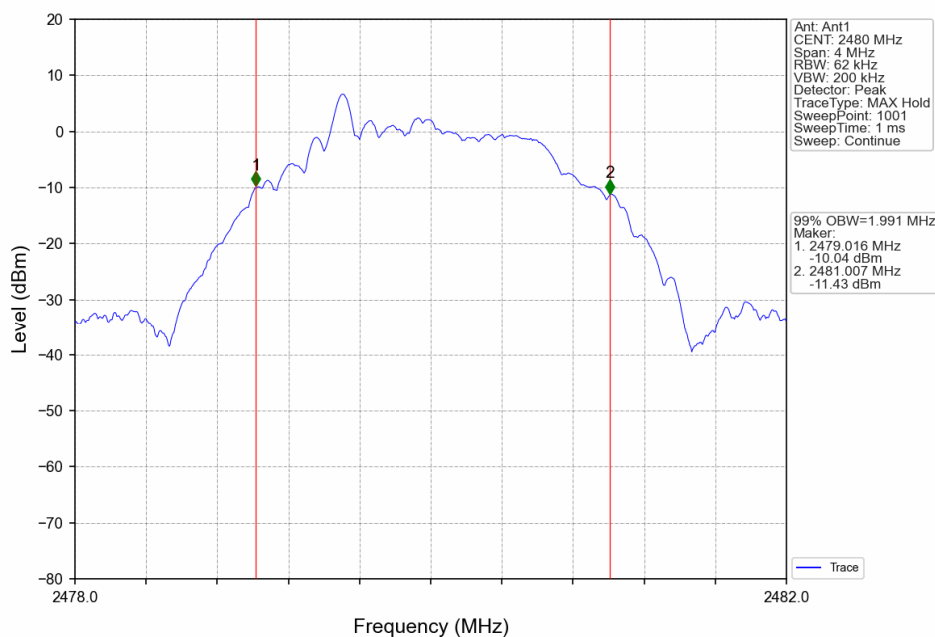
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2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.655	≥ 0.5	Pass
		2440	1	0.657	≥ 0.5	Pass
		2480	1	0.657	≥ 0.5	Pass
2M	SISO	2402	1	1.150	≥ 0.5	Pass
		2440	1	1.150	≥ 0.5	Pass
		2480	1	1.142	≥ 0.5	Pass

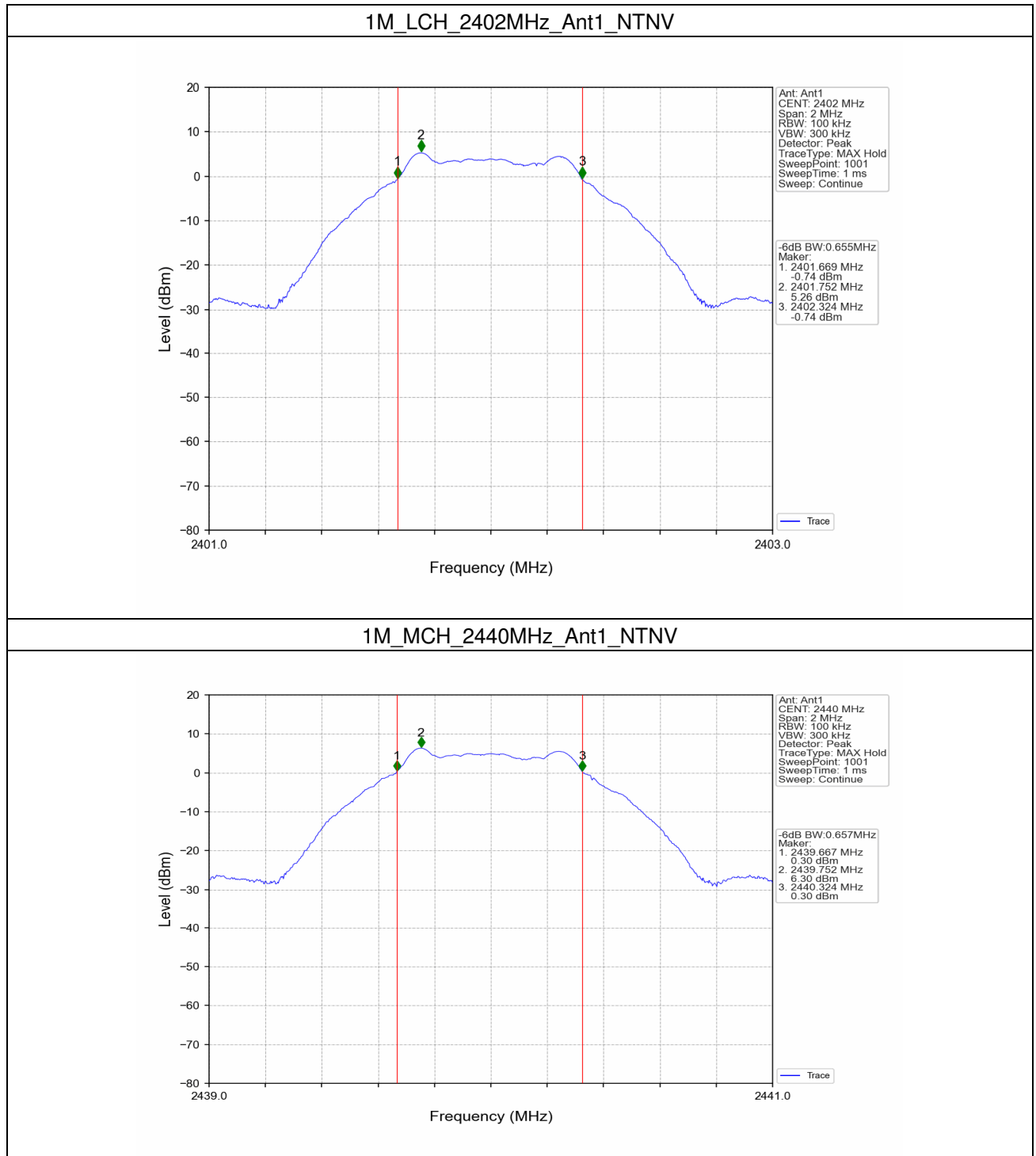


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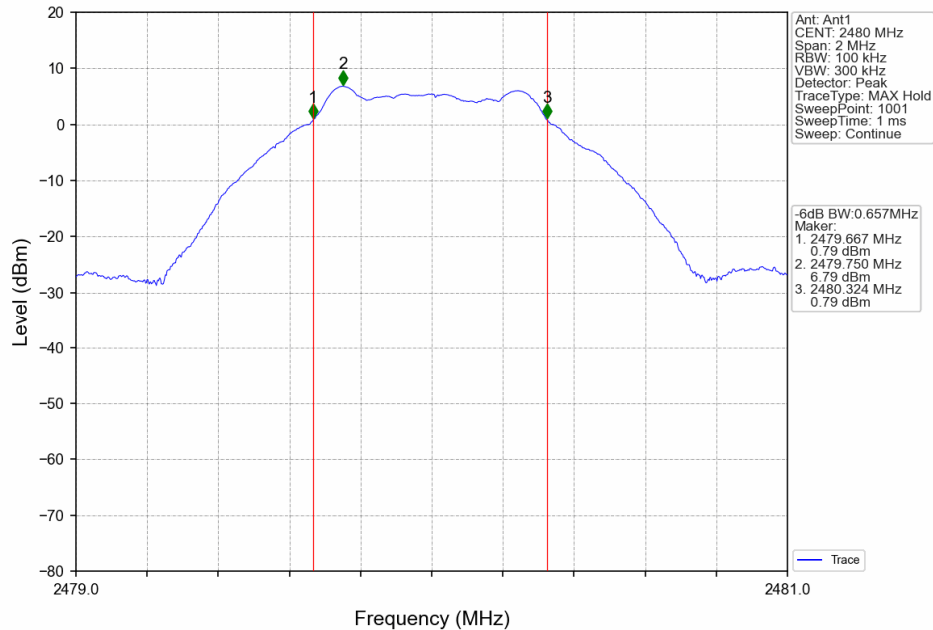
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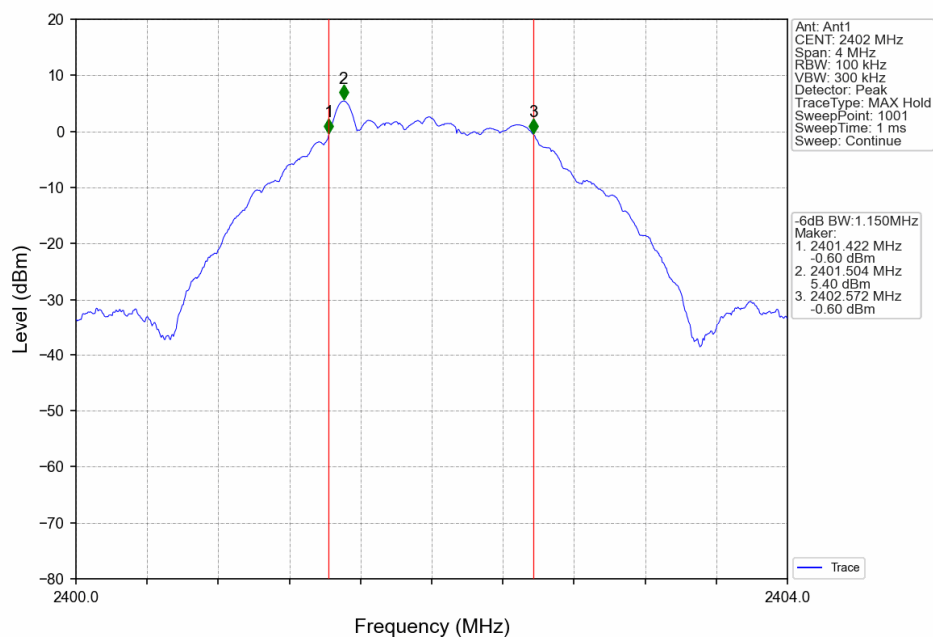
2.2.2 Test Graph



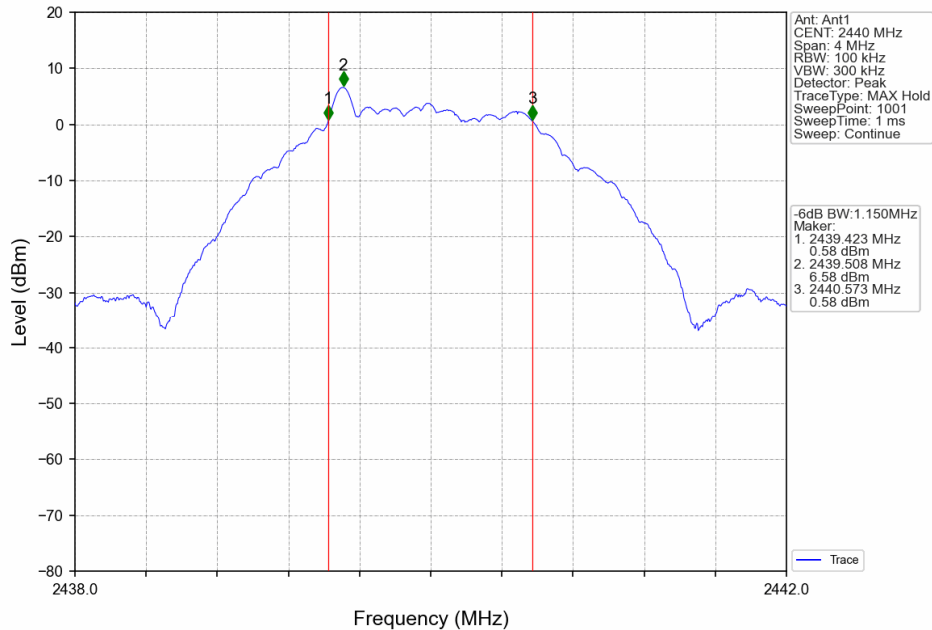
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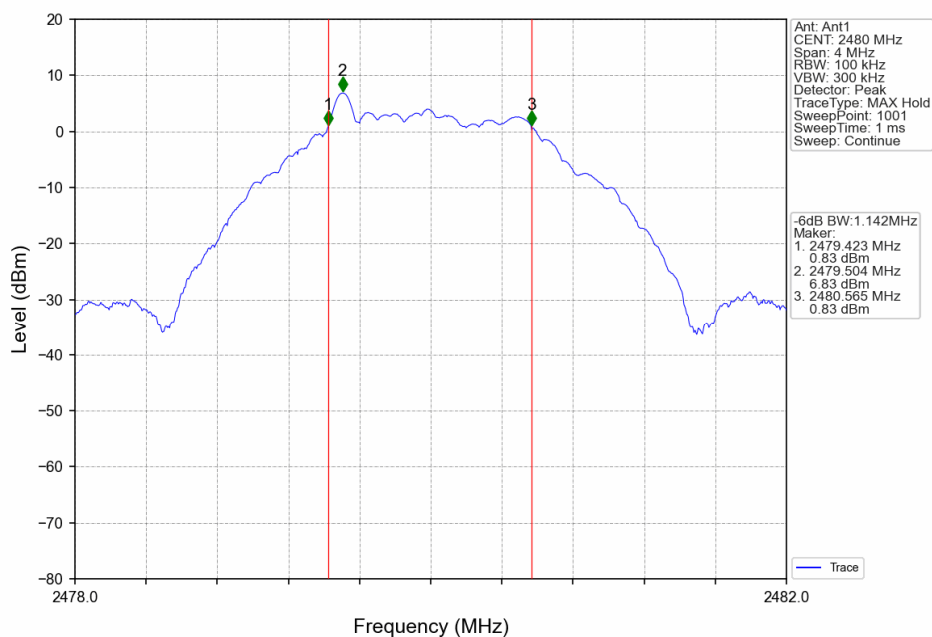
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	6.57	<=30	Pass
		2440	8.03	<=30	Pass
		2480	8.28	<=30	Pass
2M	SISO	2402	7.78	<=30	Pass
		2440	7.06	<=30	Pass
		2480	8.31	<=30	Pass

Note1: Antenna Gain: Ant1: -2.00dBi;

4. Maximum Power Spectral Density

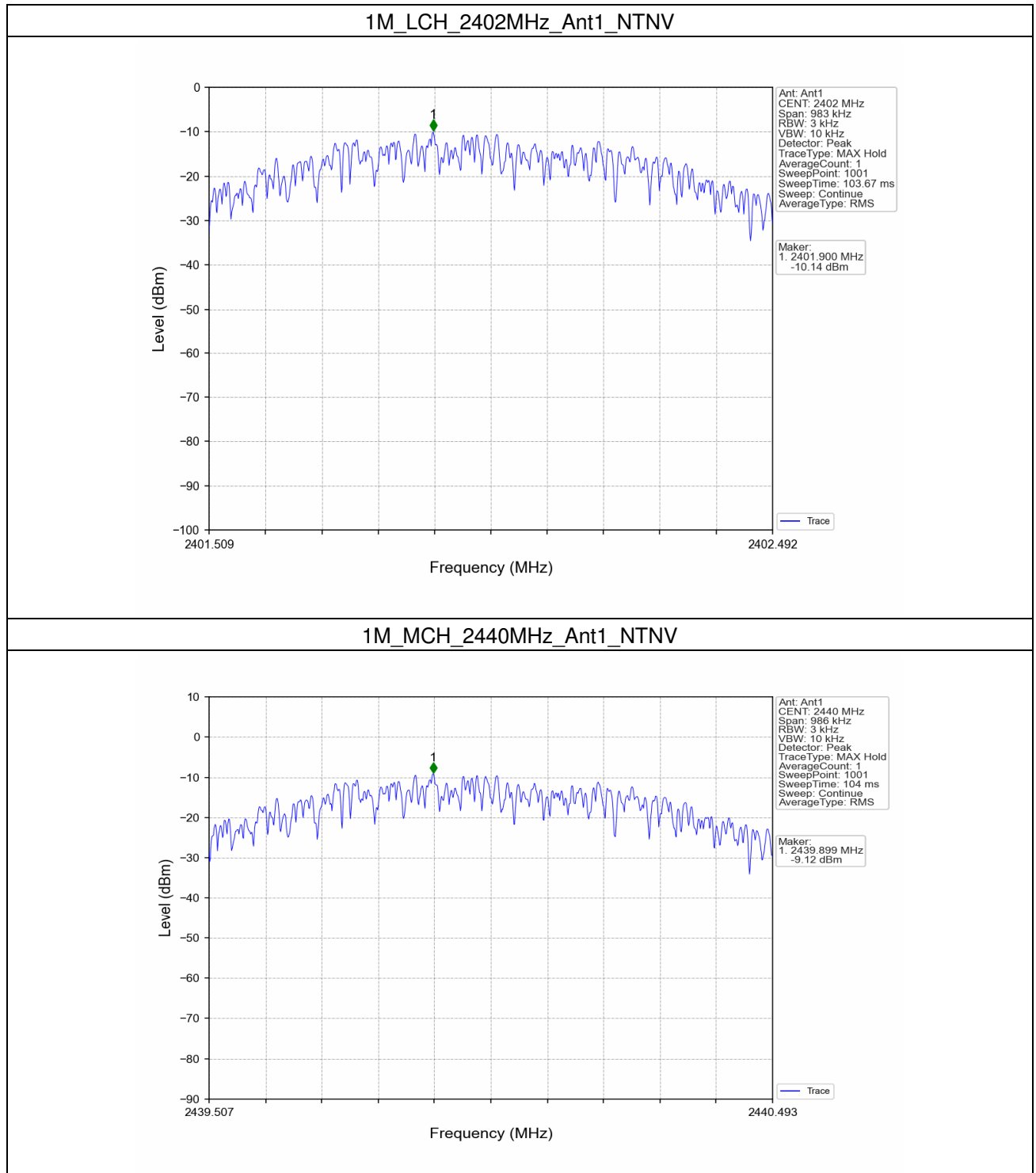
4.1 PSD

4.1.1 Test Result

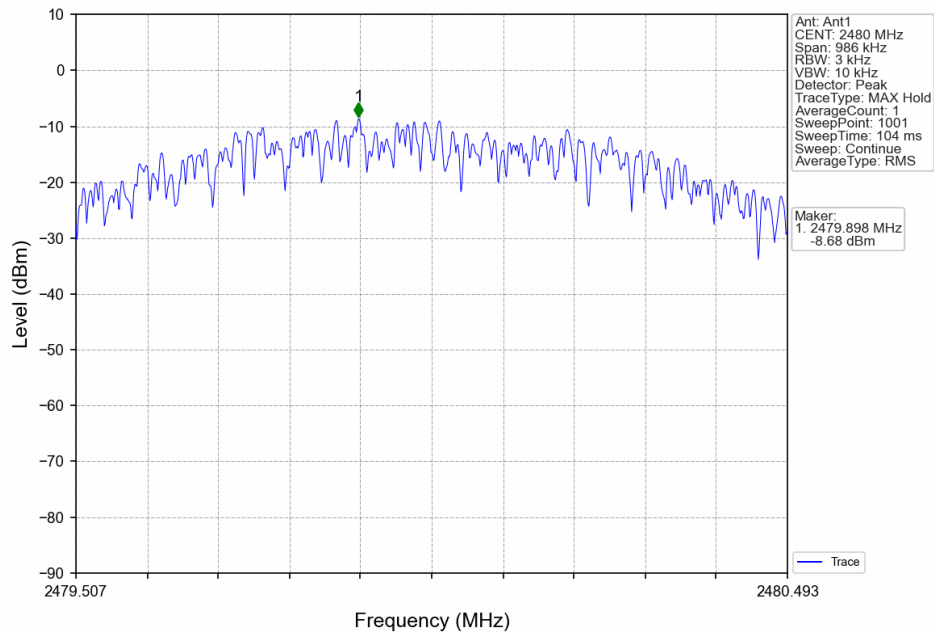
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-10.14	<=8	Pass
		2440	-9.12	<=8	Pass
		2480	-8.68	<=8	Pass
2M	SISO	2402	-13.13	<=8	Pass
		2440	-11.98	<=8	Pass
		2480	-11.76	<=8	Pass

Note1: Antenna Gain: Ant1: -2.00dBi;

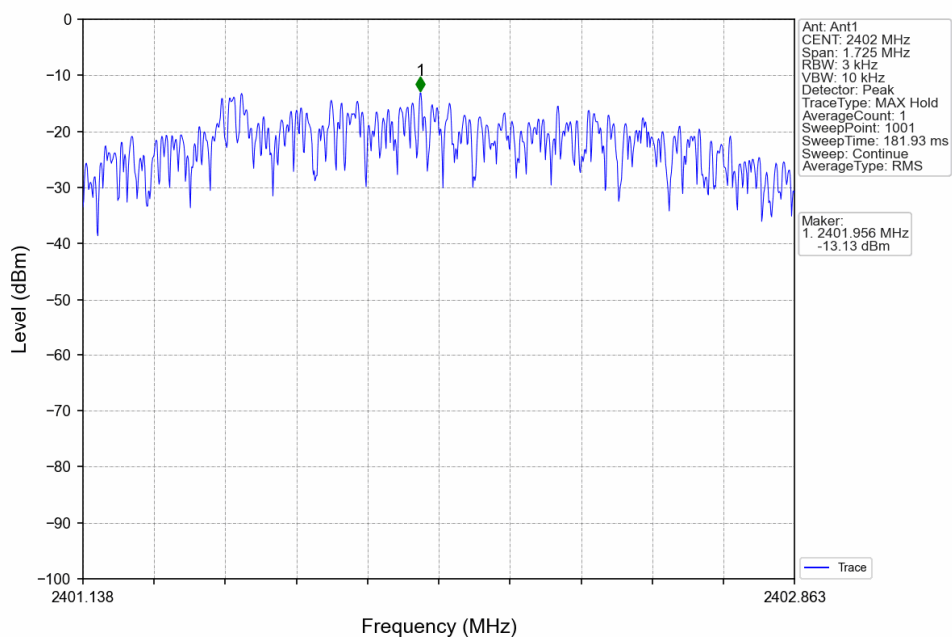
4.1.2 Test Graph



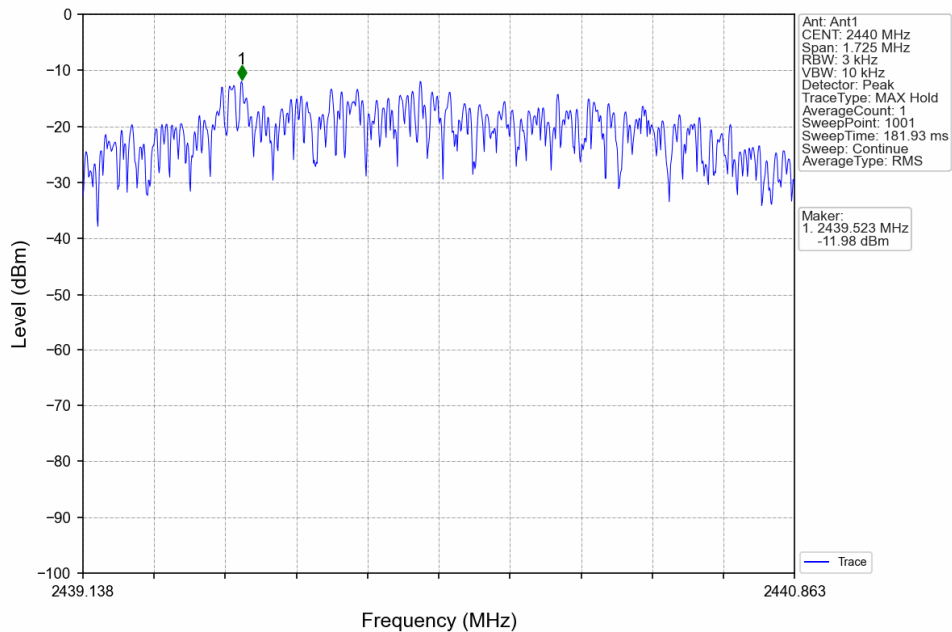
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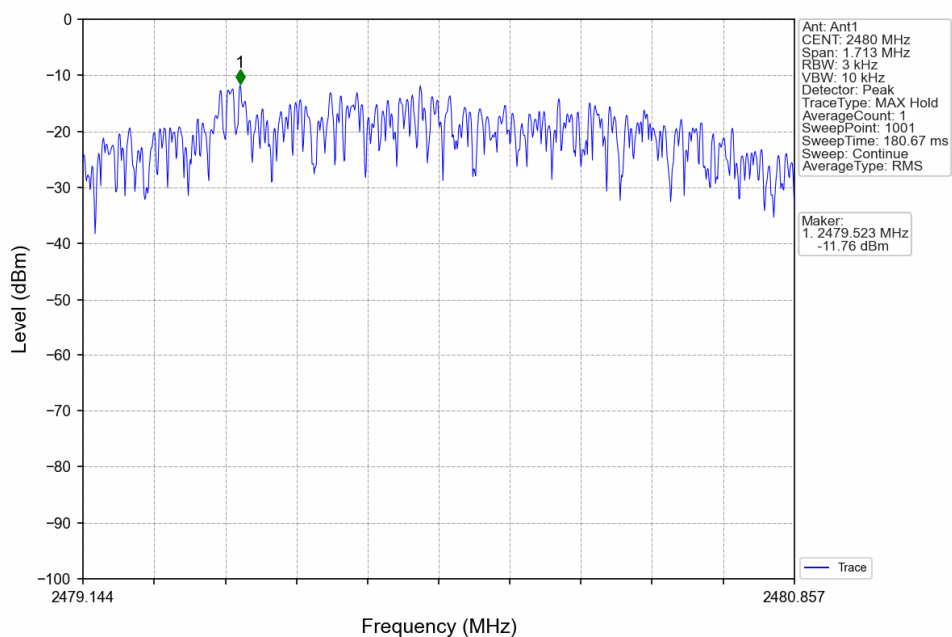
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

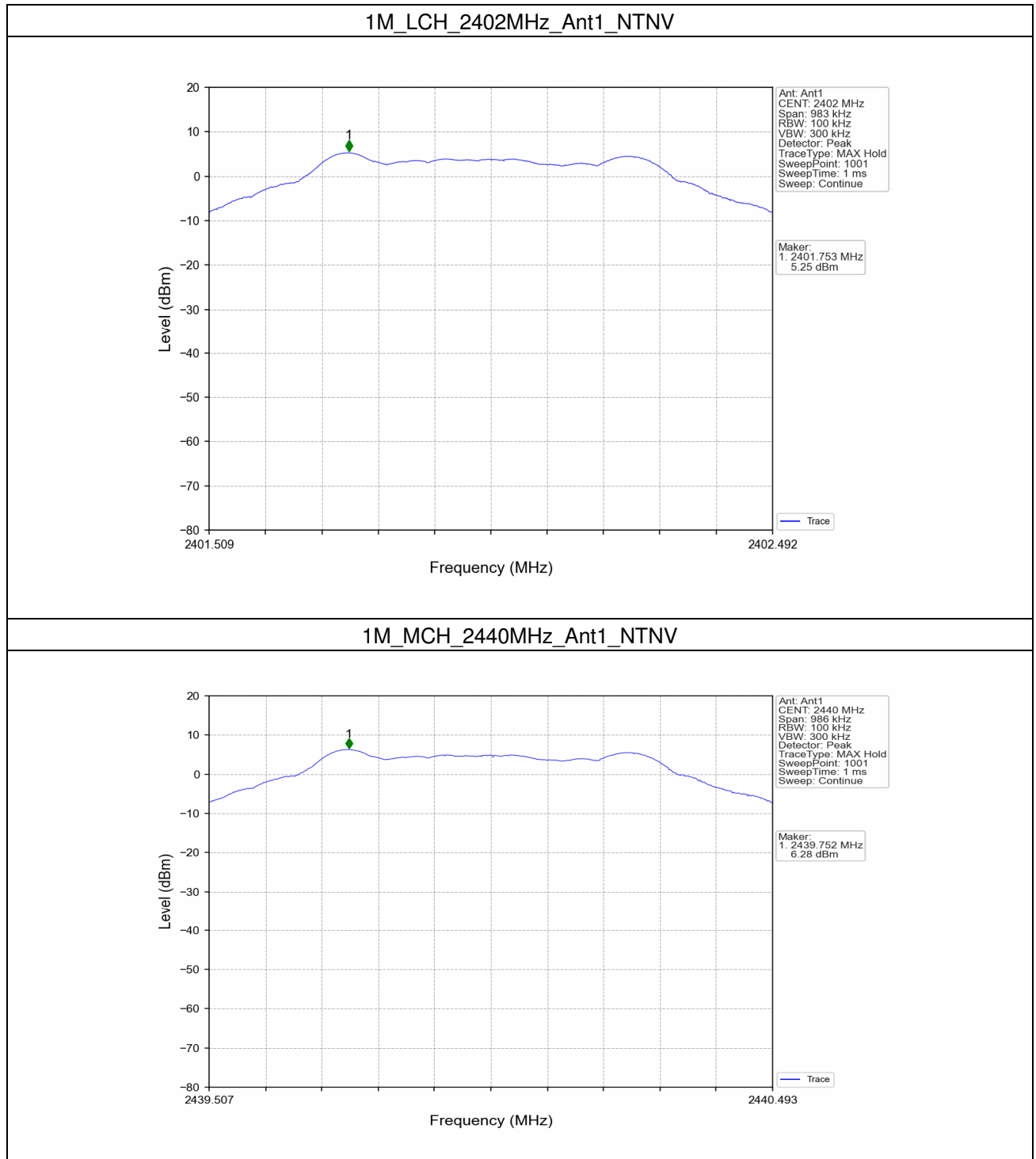
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	5.25
		2440	1	6.28
		2480	1	6.79
2M	SISO	2402	1	5.42
		2440	1	6.59
		2480	1	6.82

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



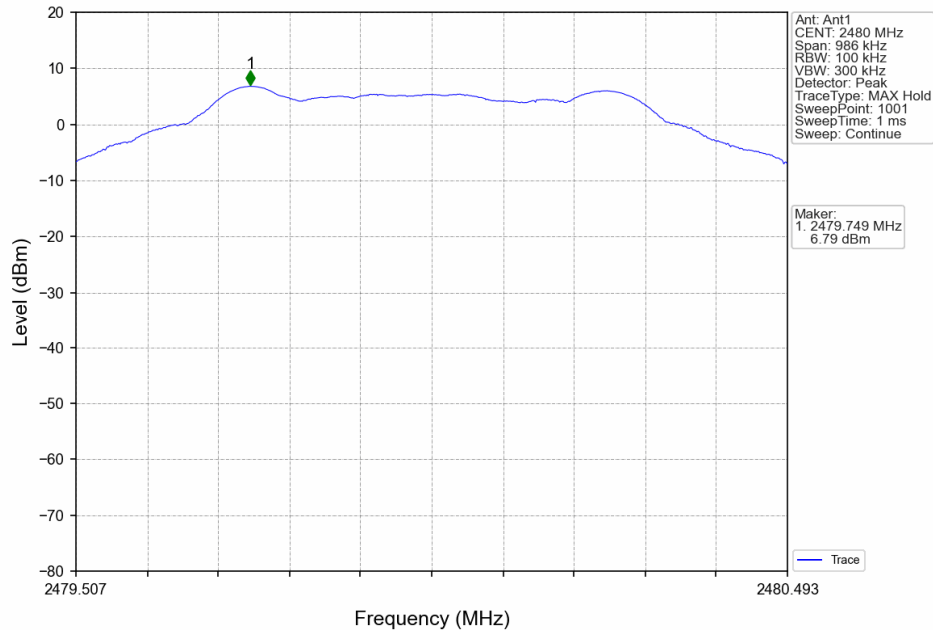
5.1.2 Test Graph



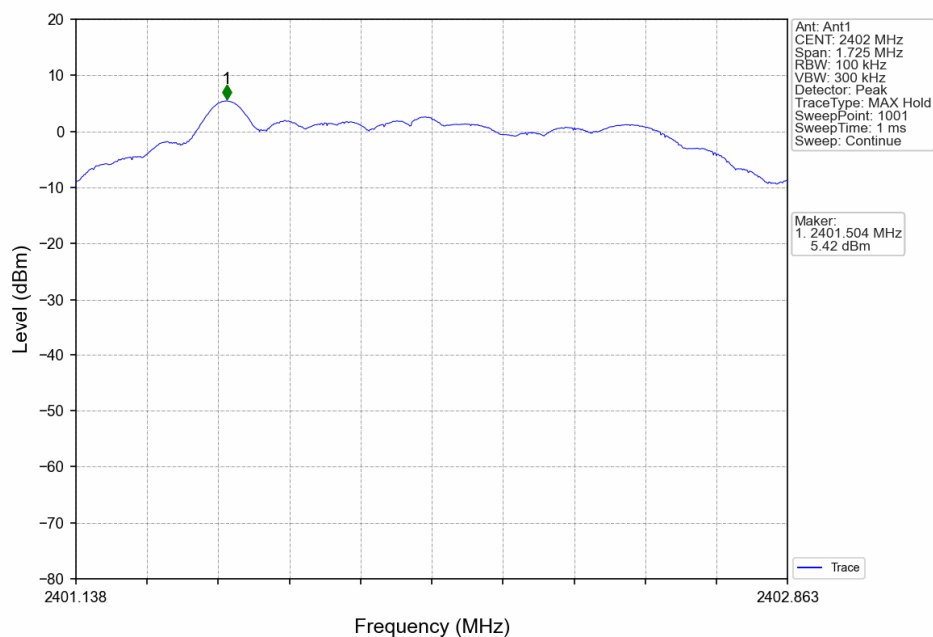
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



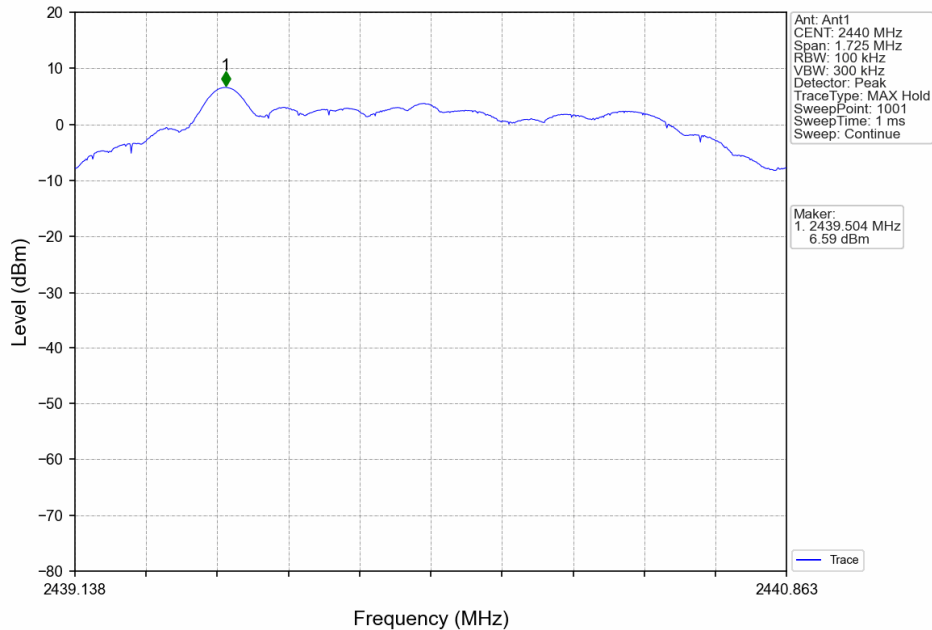
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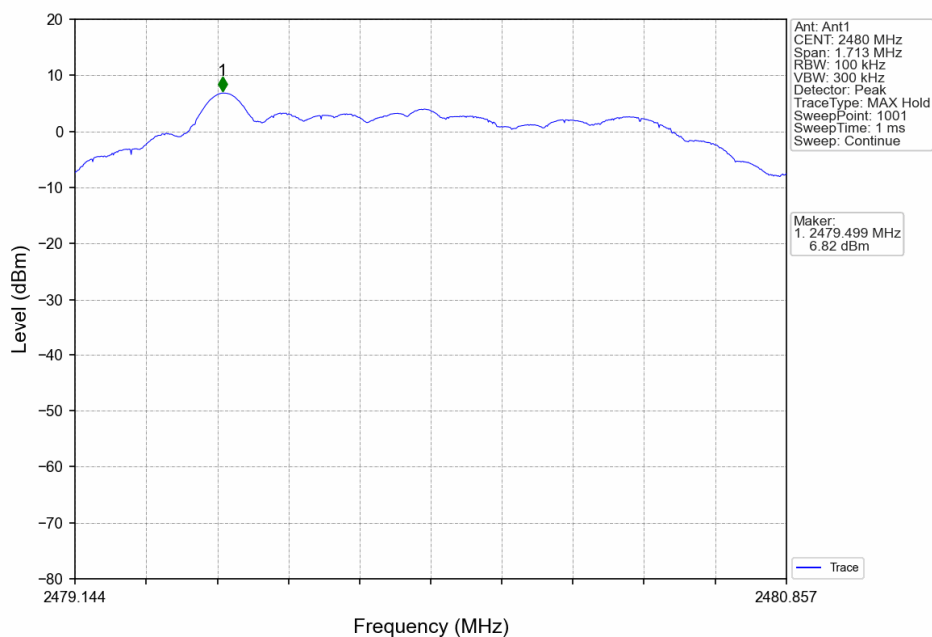
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2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	6.79	-13.21	Pass
		2440	1	6.79	-13.21	Pass
		2480	1	6.79	-13.21	Pass
2M	SISO	2402	1	6.82	-13.18	Pass
		2440	1	6.82	-13.18	Pass
		2480	1	6.82	-13.18	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

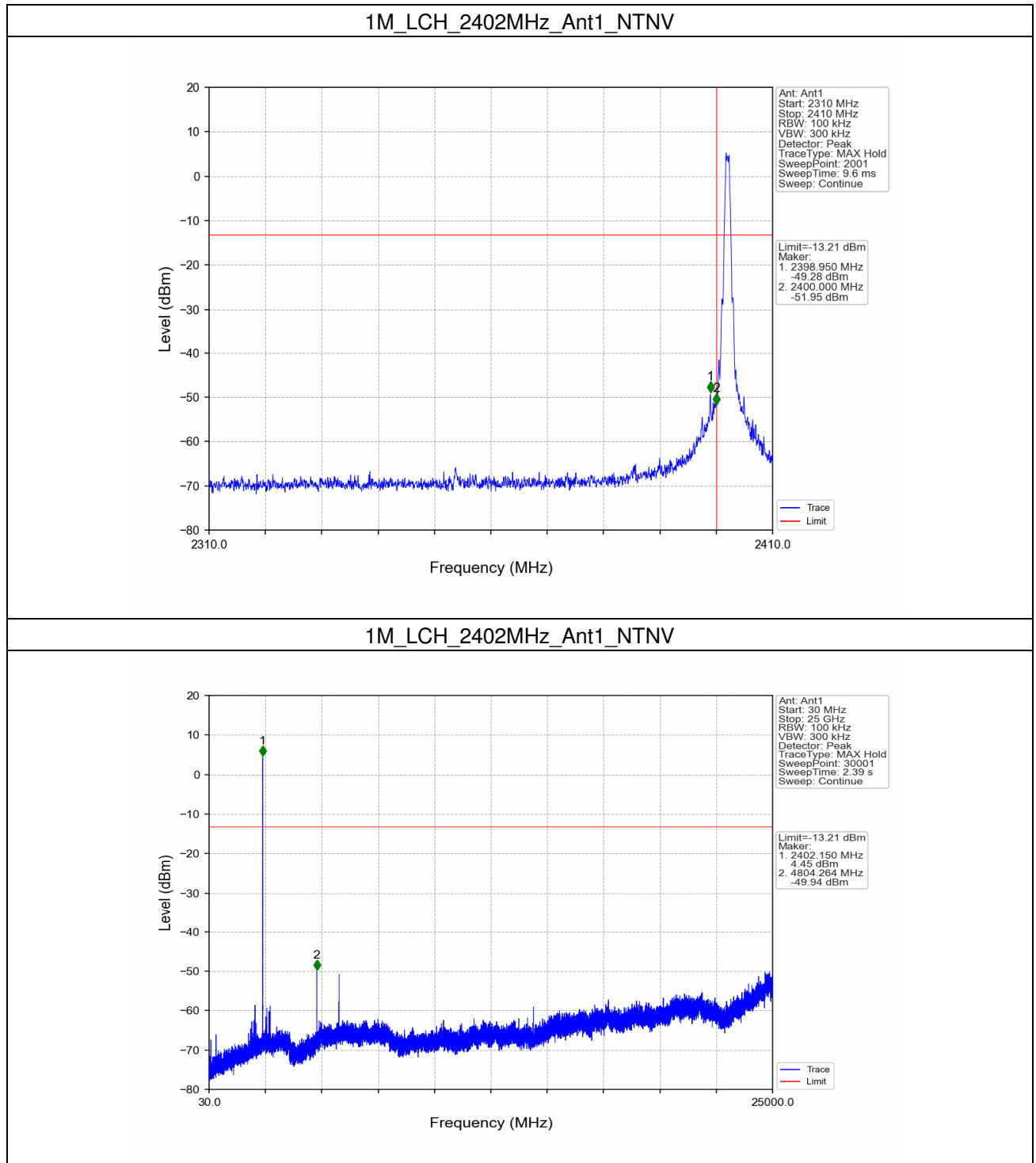


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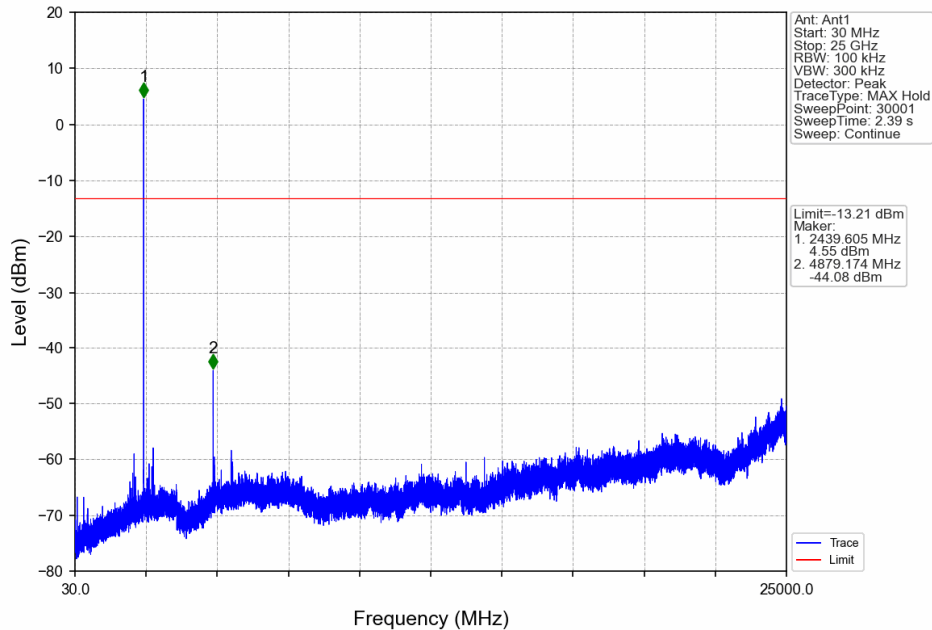
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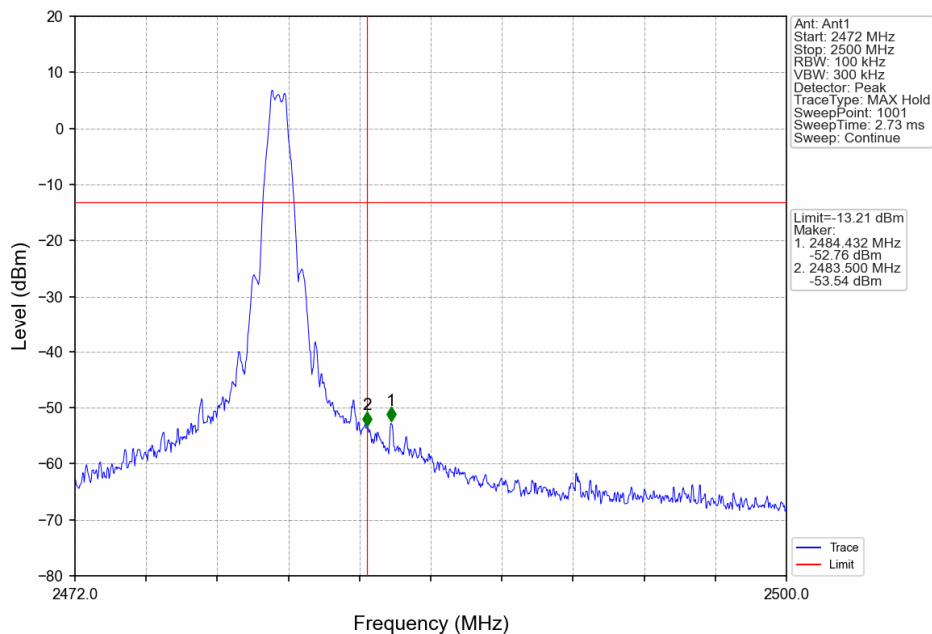
5.2.2 Test Graph



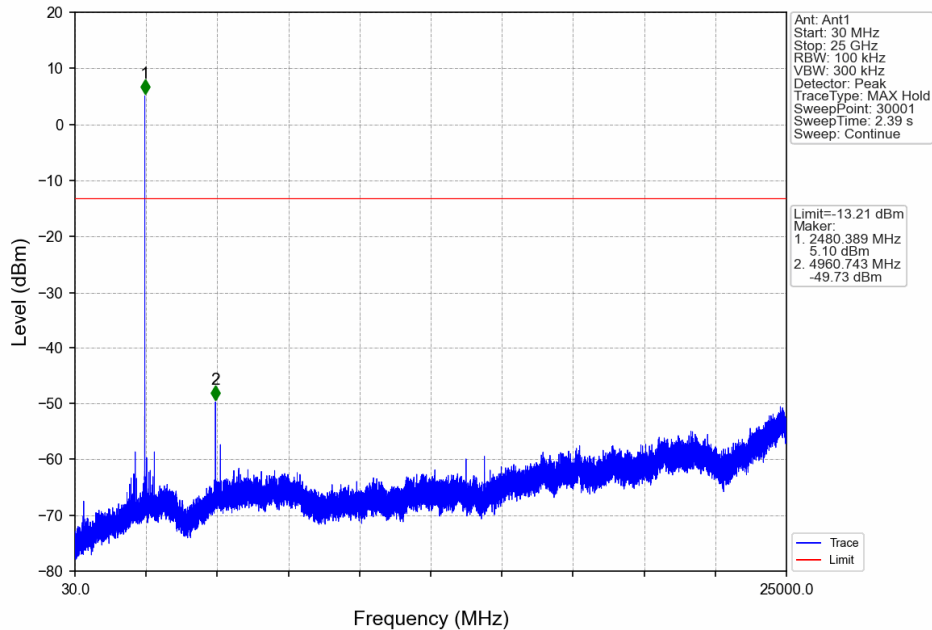
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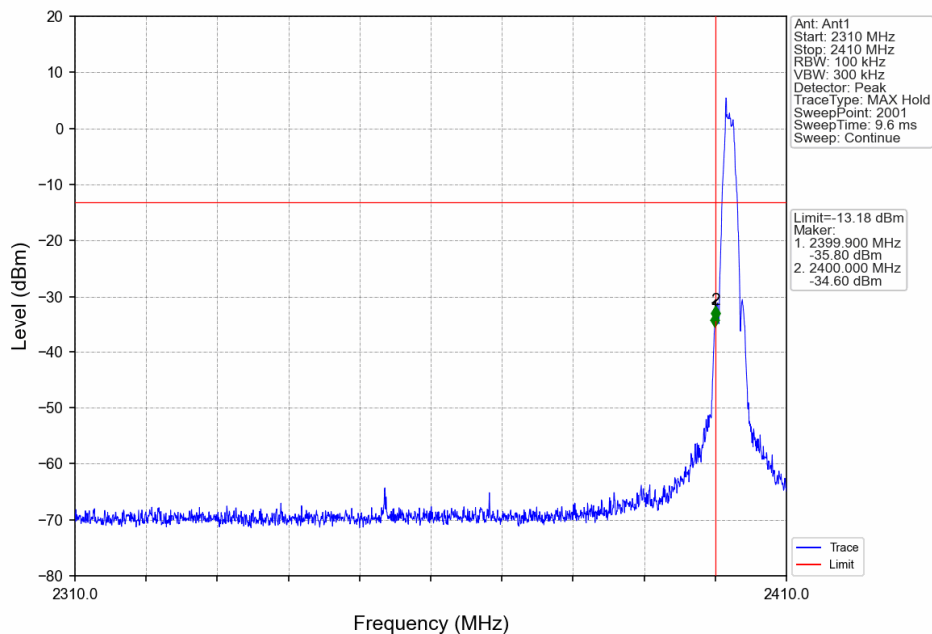
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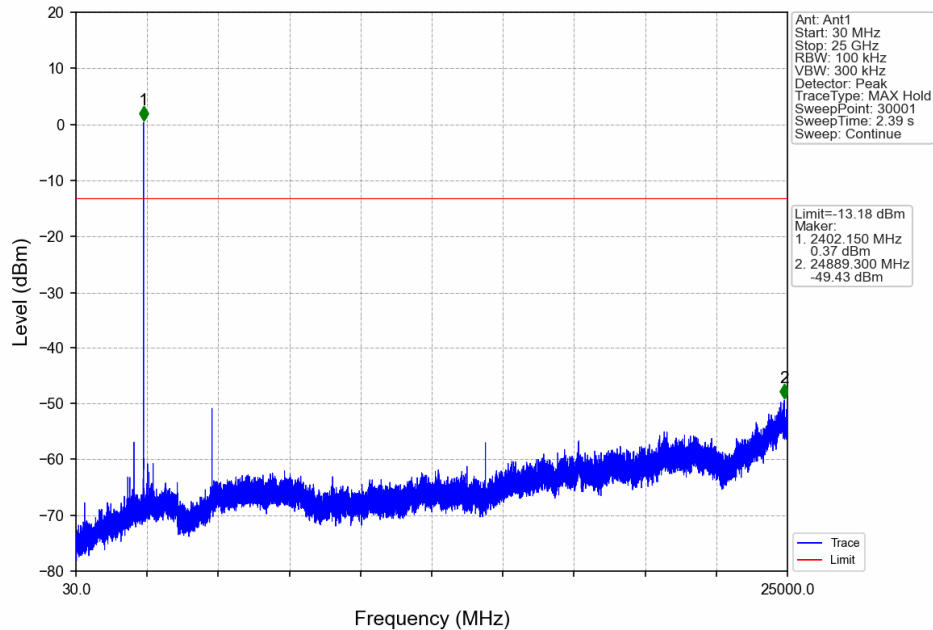
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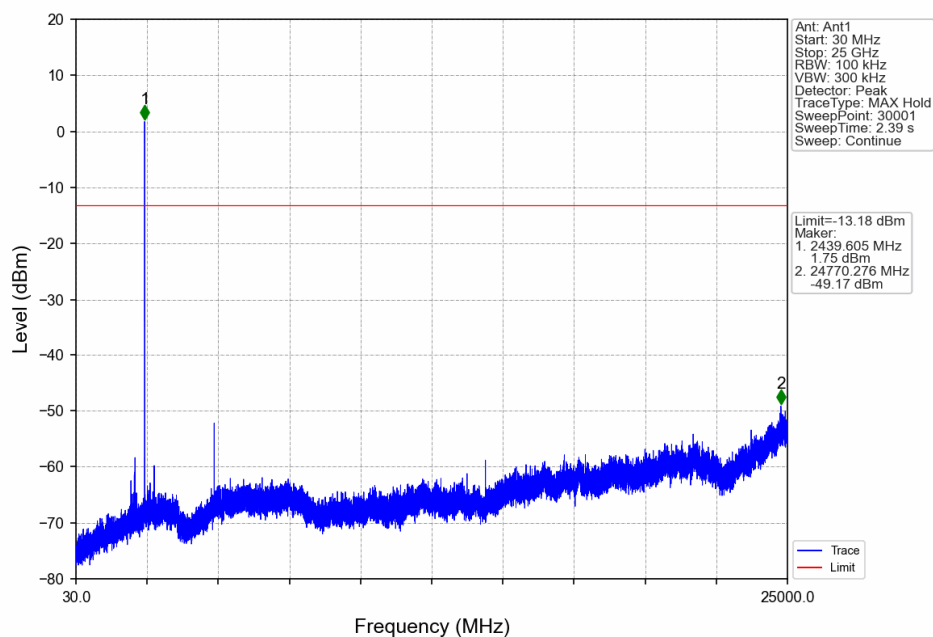
2M_LCH_2402MHz_Ant1_NTNV



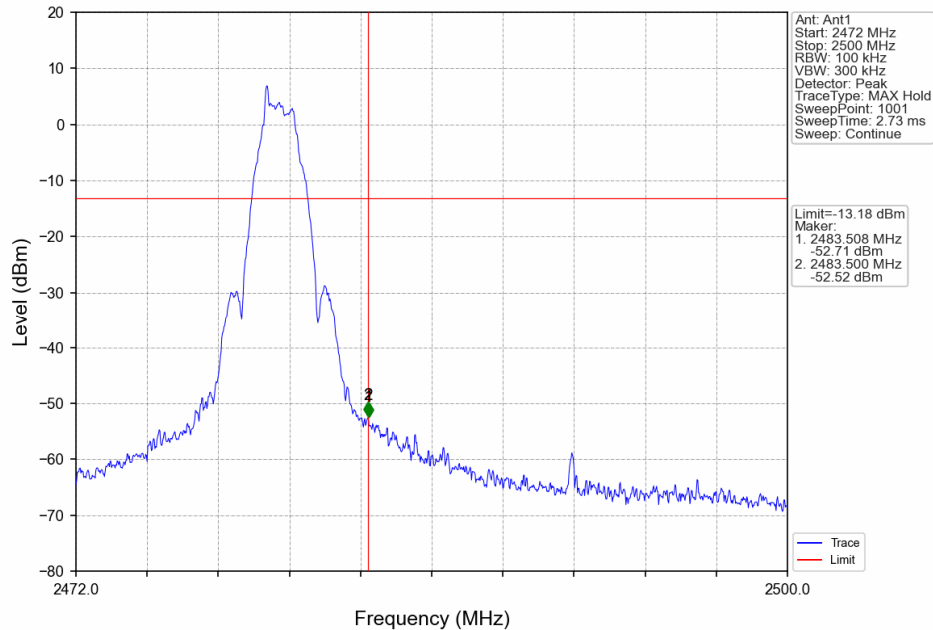
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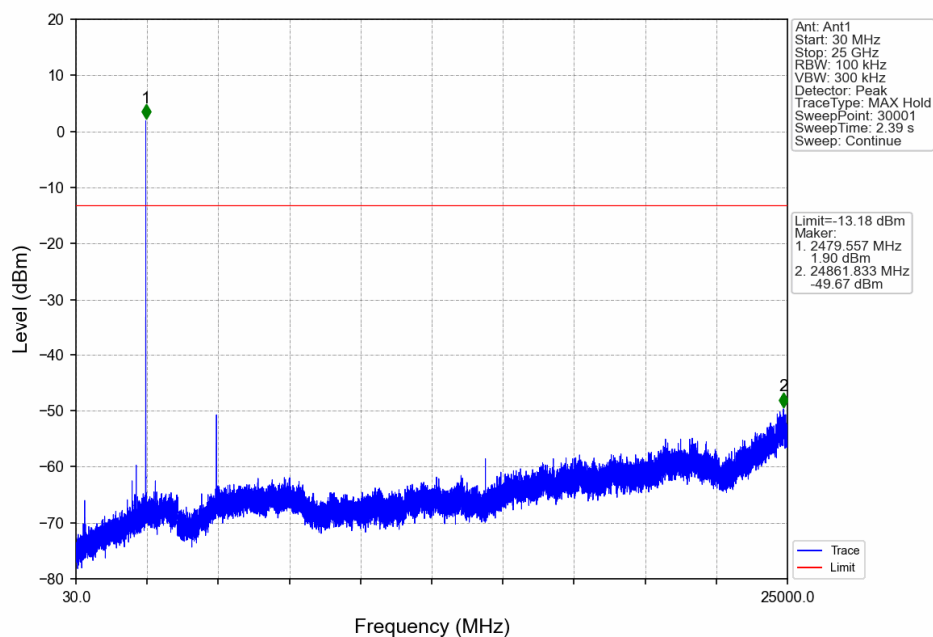
2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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For left earbuds:

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

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
2M	SISO	2402	0.198	0.625	31.68	4.99	0.00
		2440	0.233	0.625	37.28	4.29	0.00
		2480	0.233	0.625	37.28	4.29	0.00

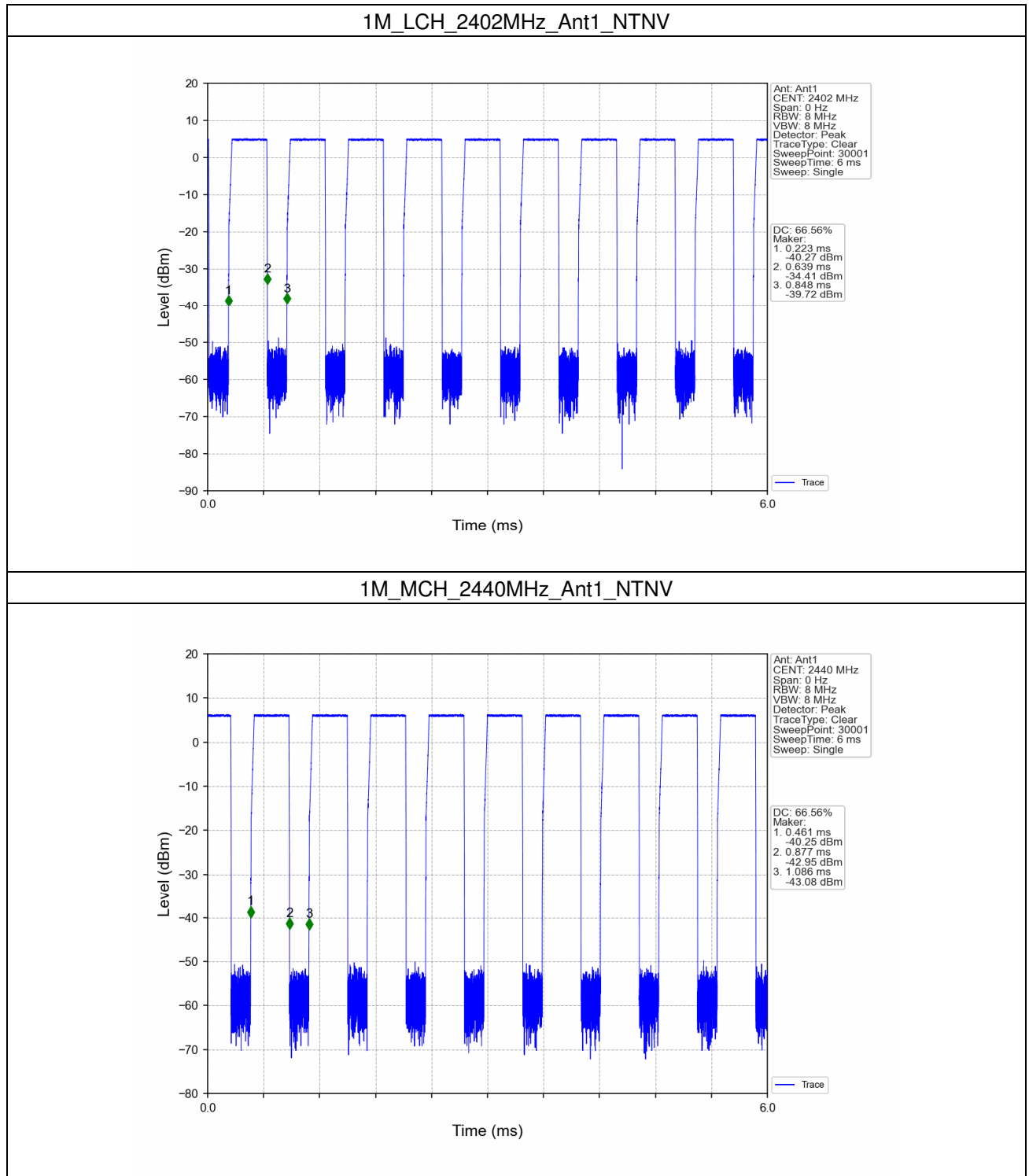


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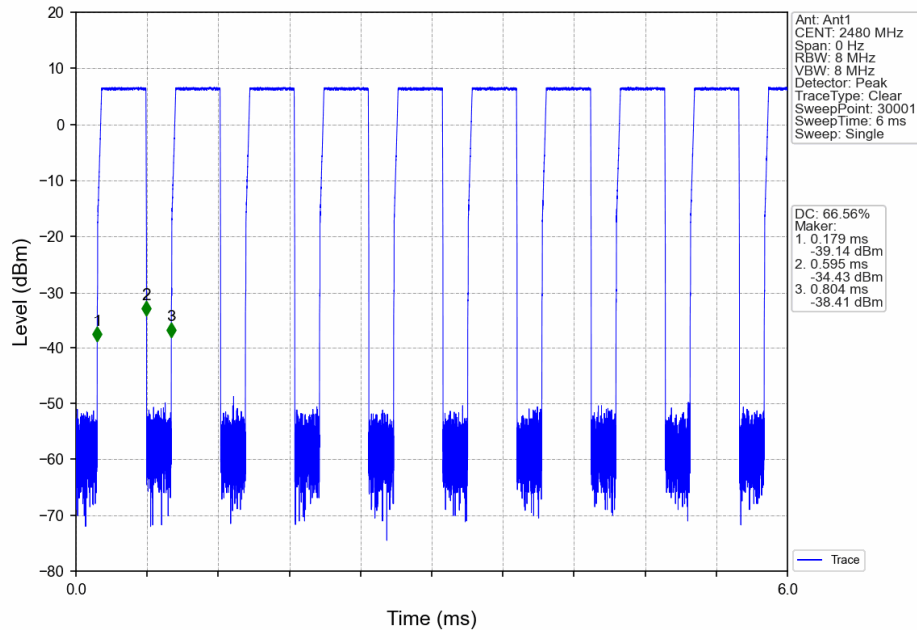
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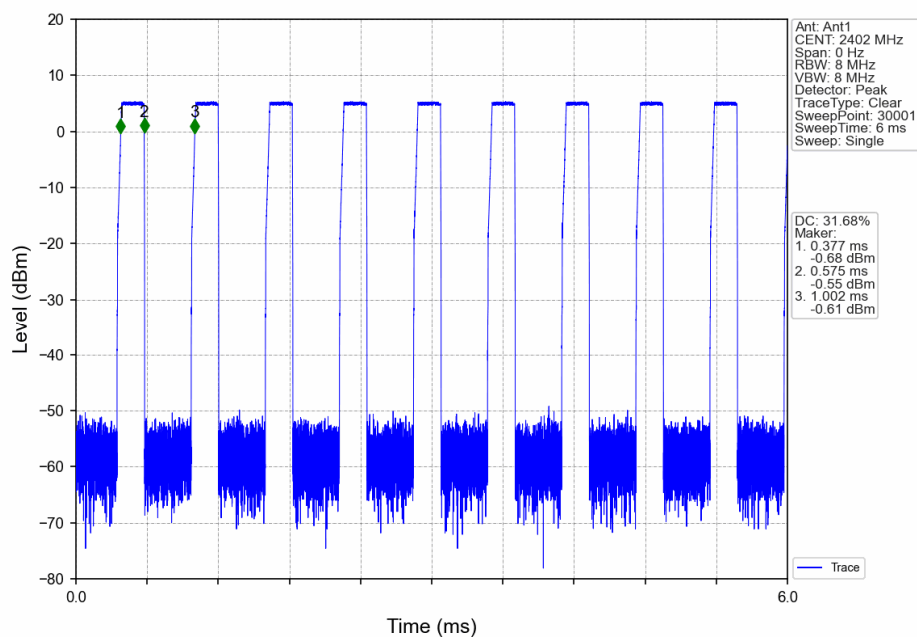
1.1.2 Test Graph



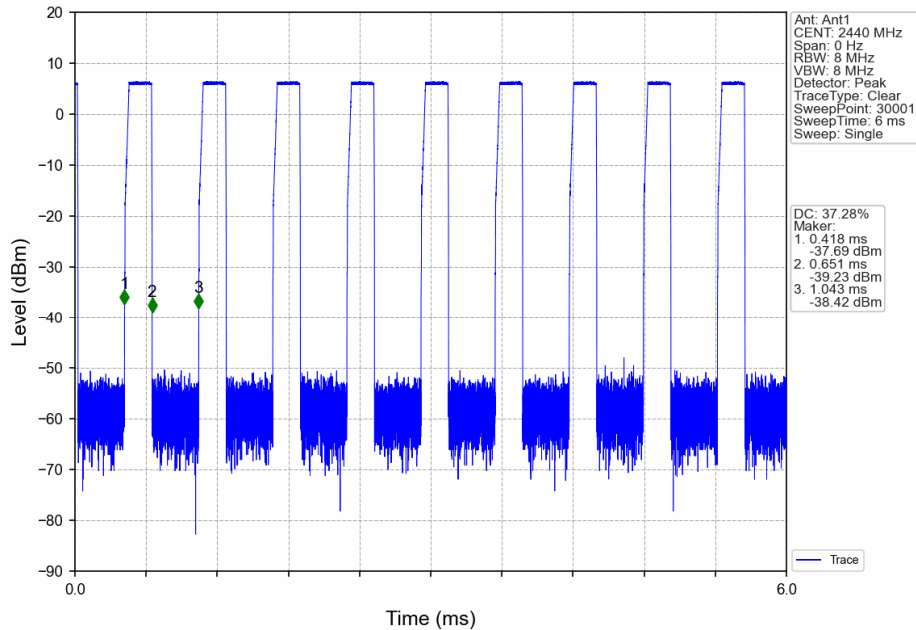
1M_HCH_2480MHz_Ant1_NTNV



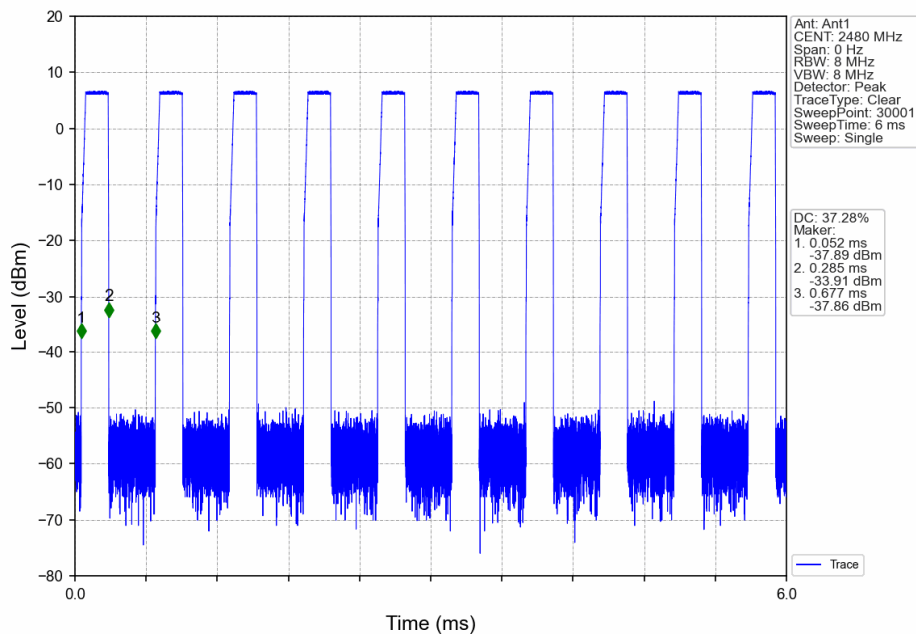
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1M	SISO	2402	1	1.015	Pass
		2440	1	1.015	Pass
		2480	1	1.015	Pass
2M	SISO	2402	1	1.993	Pass
		2440	1	1.990	Pass
		2480	1	1.989	Pass



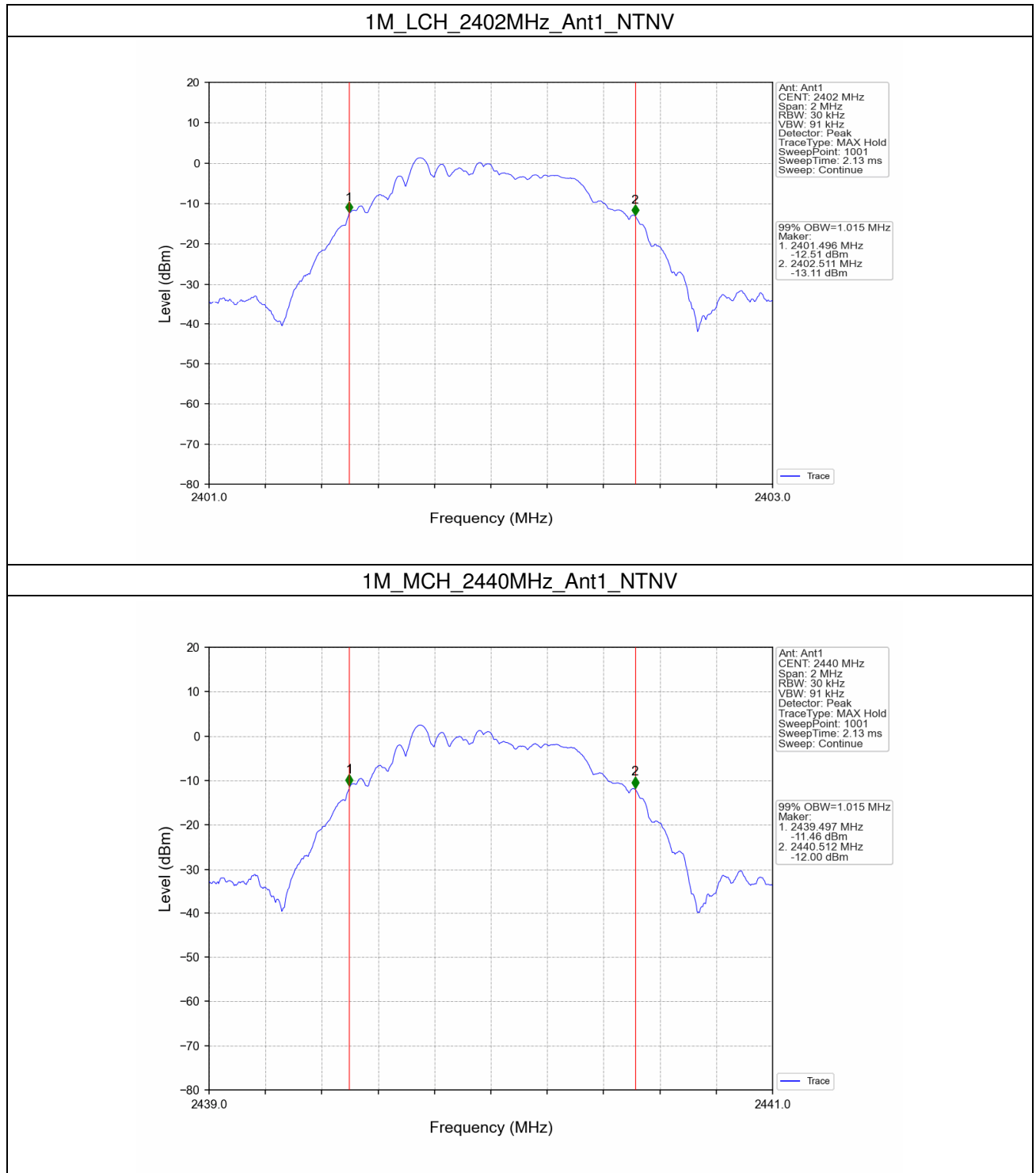
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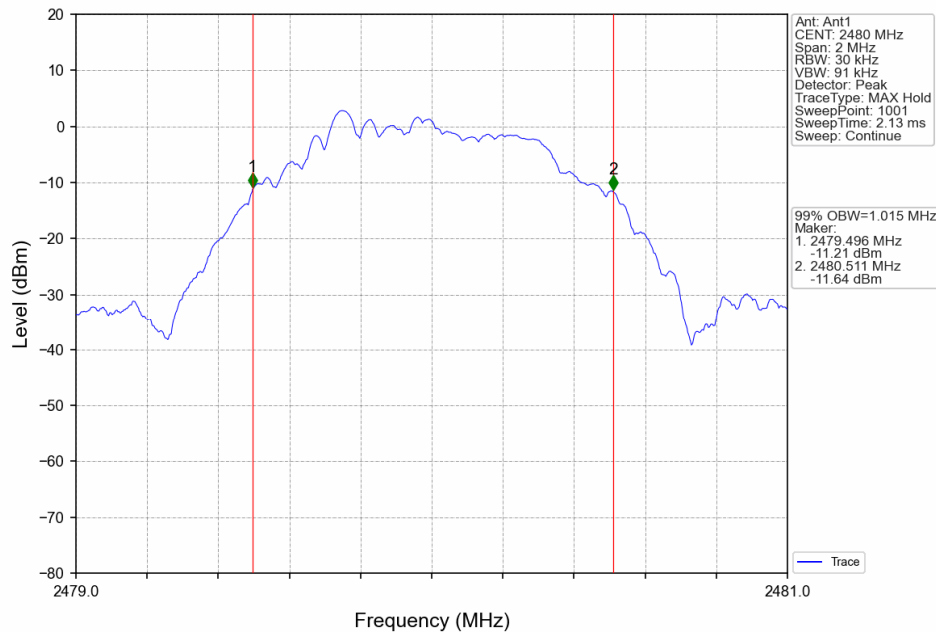
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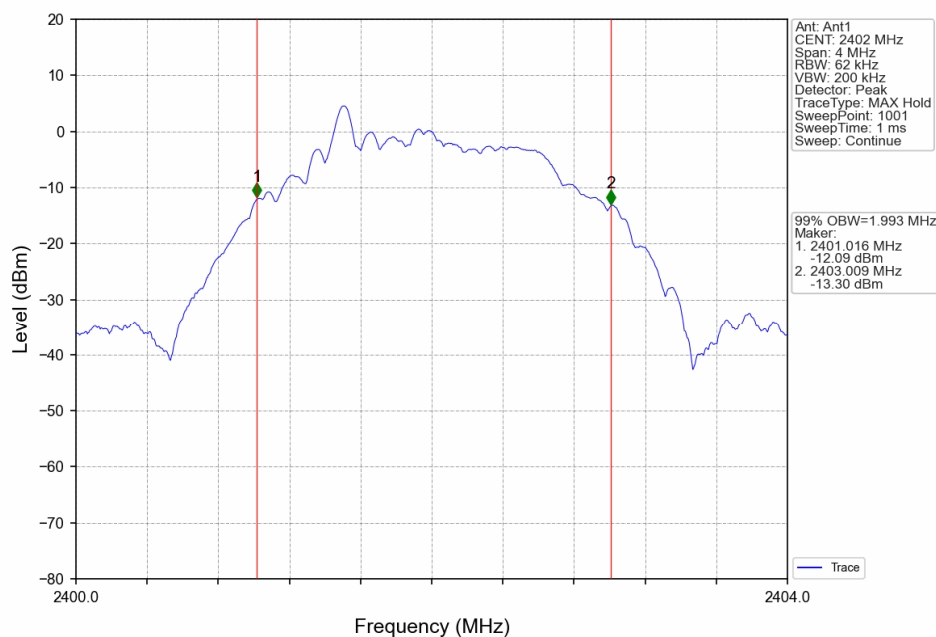
2.1.2 Test Graph



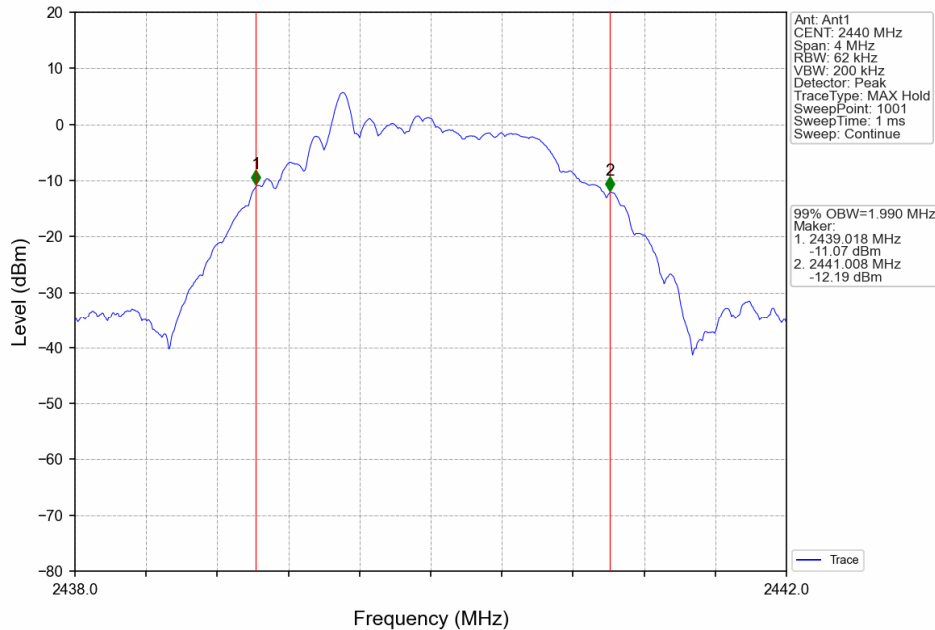
1M_HCH_2480MHz_Ant1_NTNV



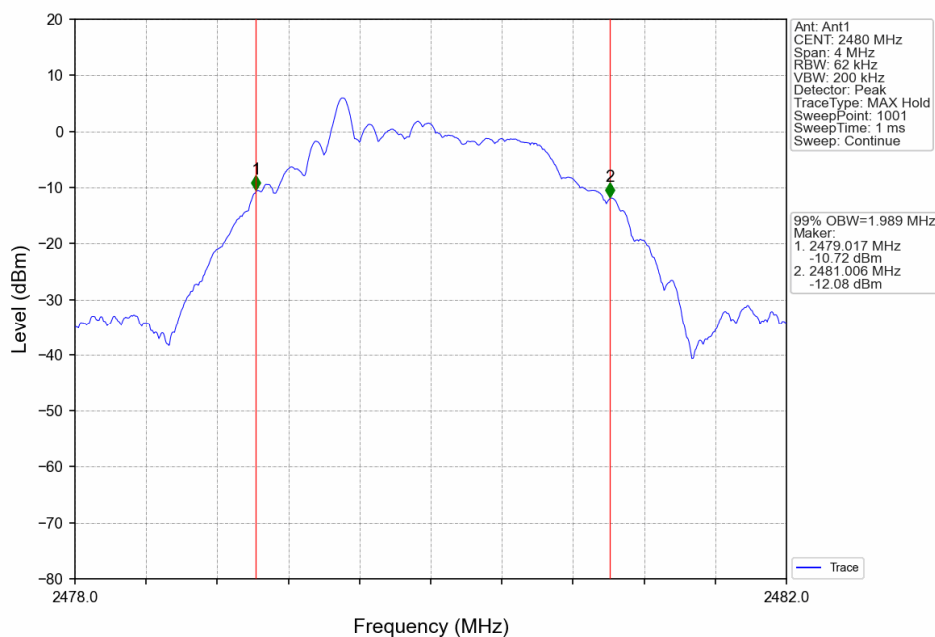
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.655	≥ 0.5	Pass
		2440	1	0.656	≥ 0.5	Pass
		2480	1	0.656	≥ 0.5	Pass
2M	SISO	2402	1	1.151	≥ 0.5	Pass
		2440	1	1.152	≥ 0.5	Pass
		2480	1	1.151	≥ 0.5	Pass

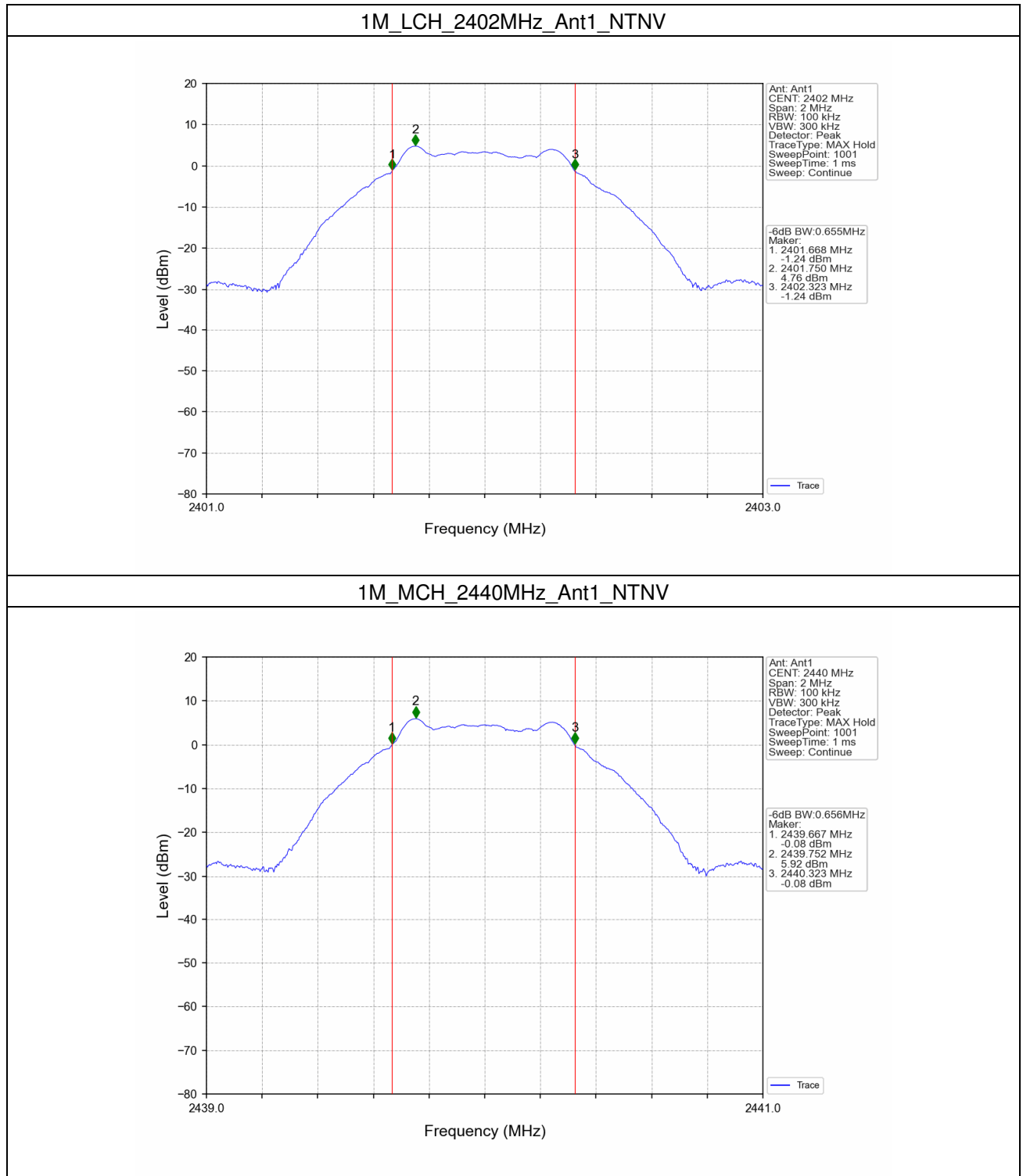


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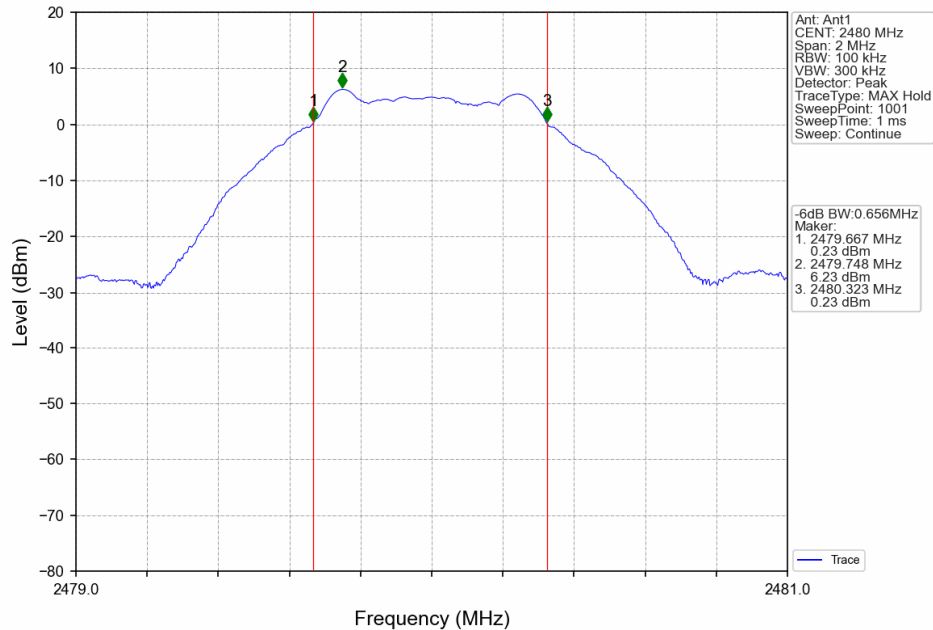
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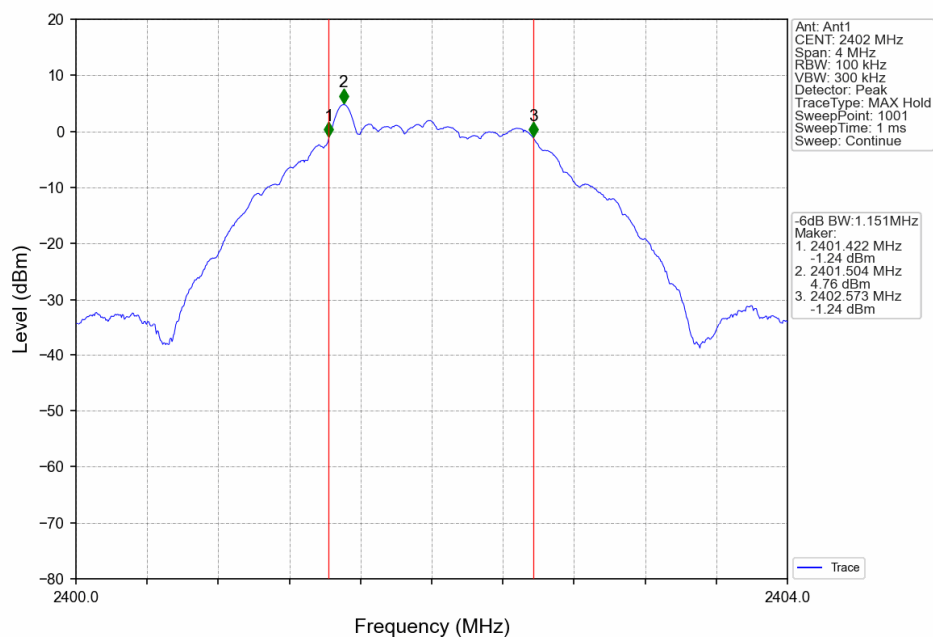
2.2.2 Test Graph



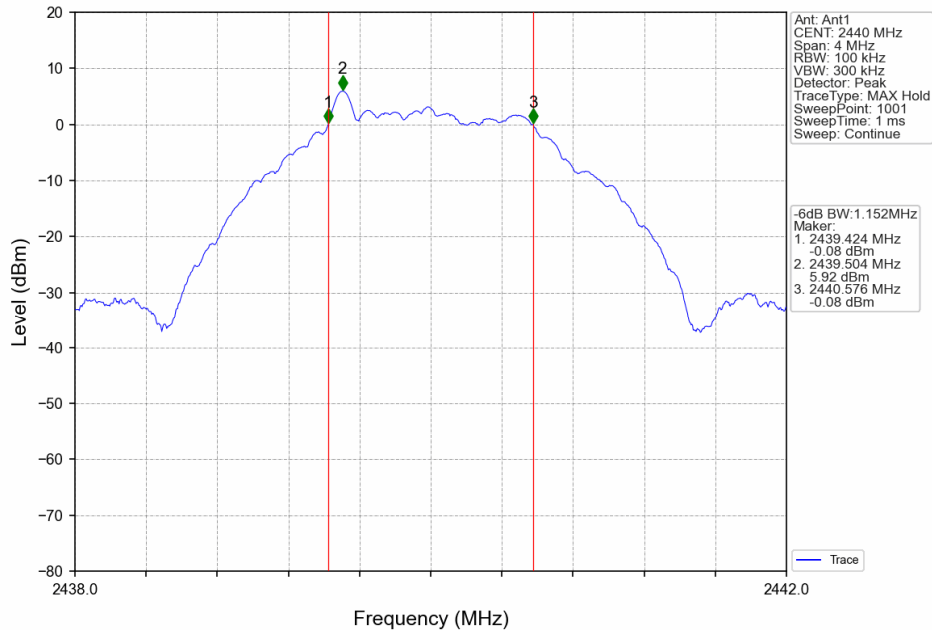
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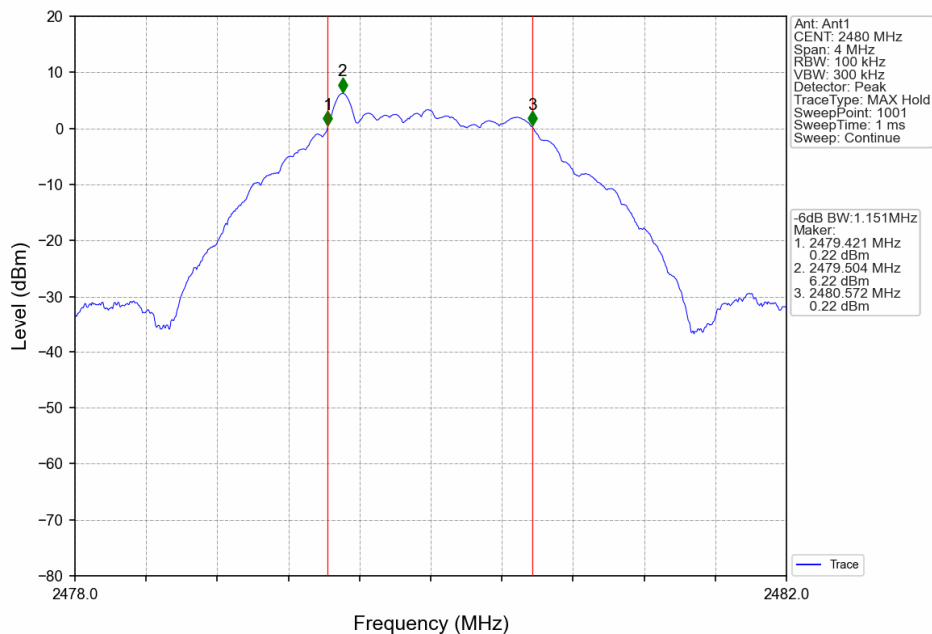
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	5.13	<=30	Pass
		2440	6.28	<=30	Pass
		2480	6.58	<=30	Pass
2M	SISO	2402	5.23	<=30	Pass
		2440	6.36	<=30	Pass
		2480	6.67	<=30	Pass

Note1: Antenna Gain: Ant1: -1.90dBi;

4. Maximum Power Spectral Density

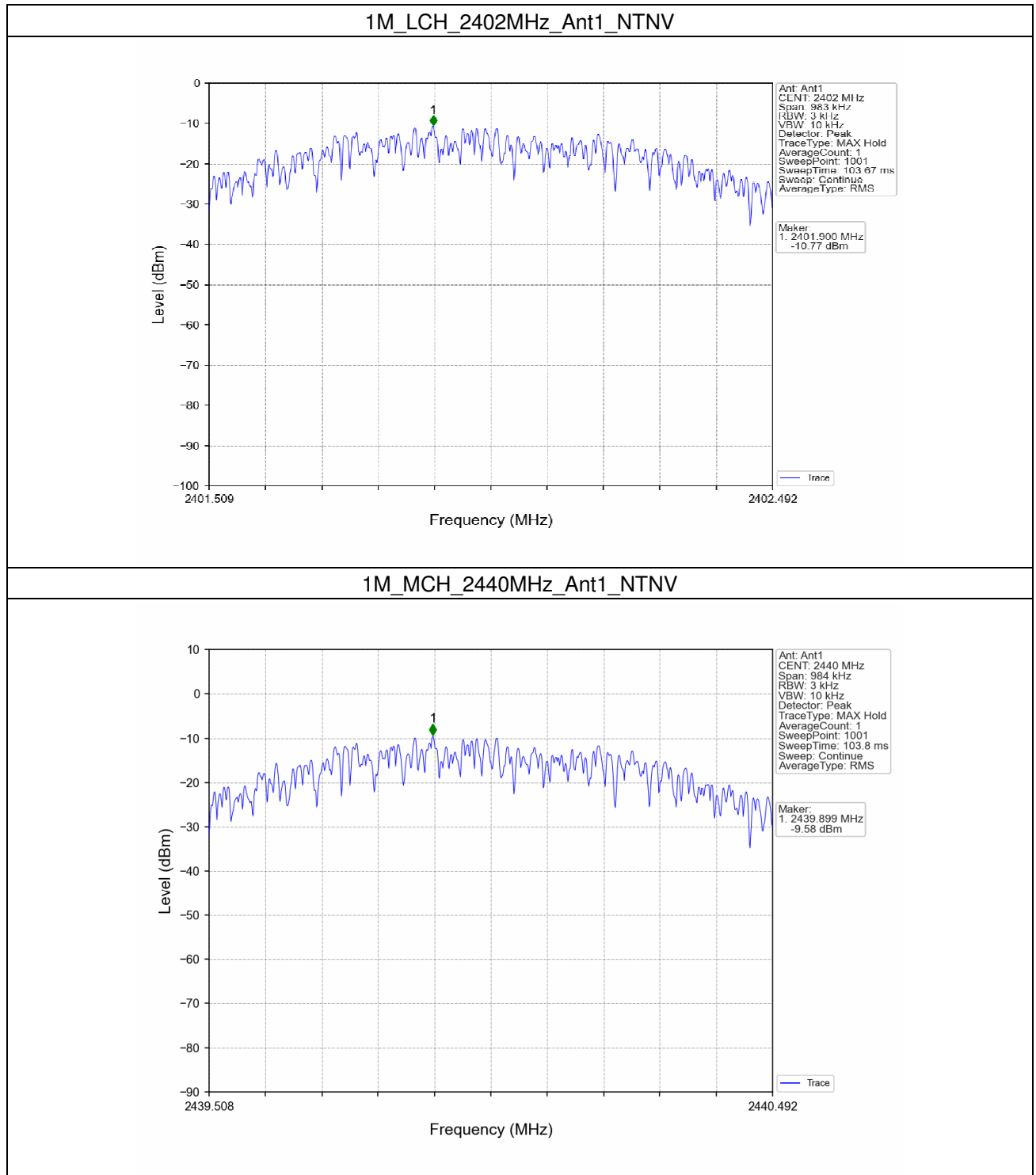
4.1 PSD

4.1.1 Test Result

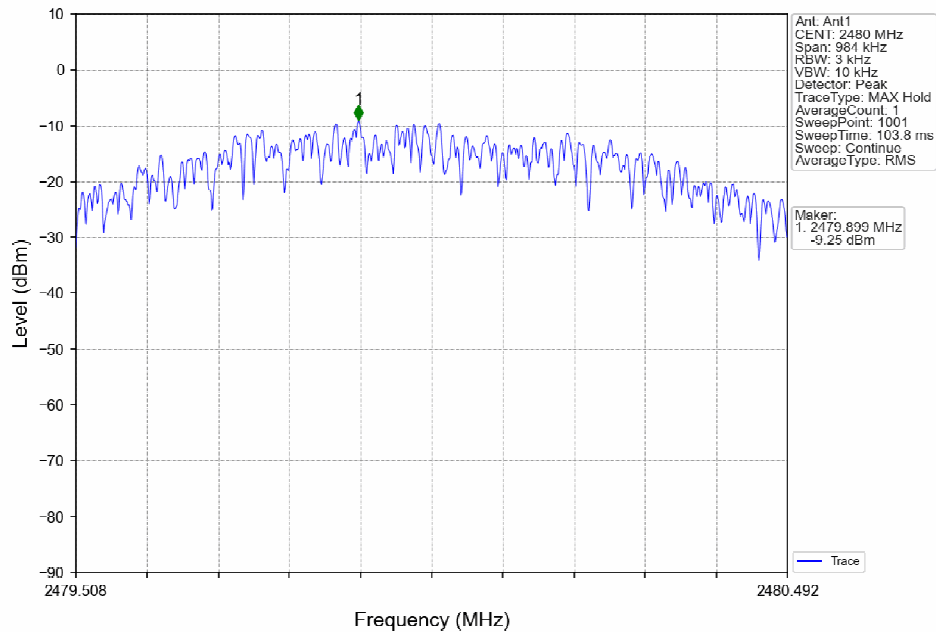
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-10.77	<=8	Pass
		2440	-9.58	<=8	Pass
		2480	-9.25	<=8	Pass
2M	SISO	2402	-13.82	<=8	Pass
		2440	-12.73	<=8	Pass
		2480	-12.37	<=8	Pass

Note1: Antenna Gain: Ant1: -1.90dBi;

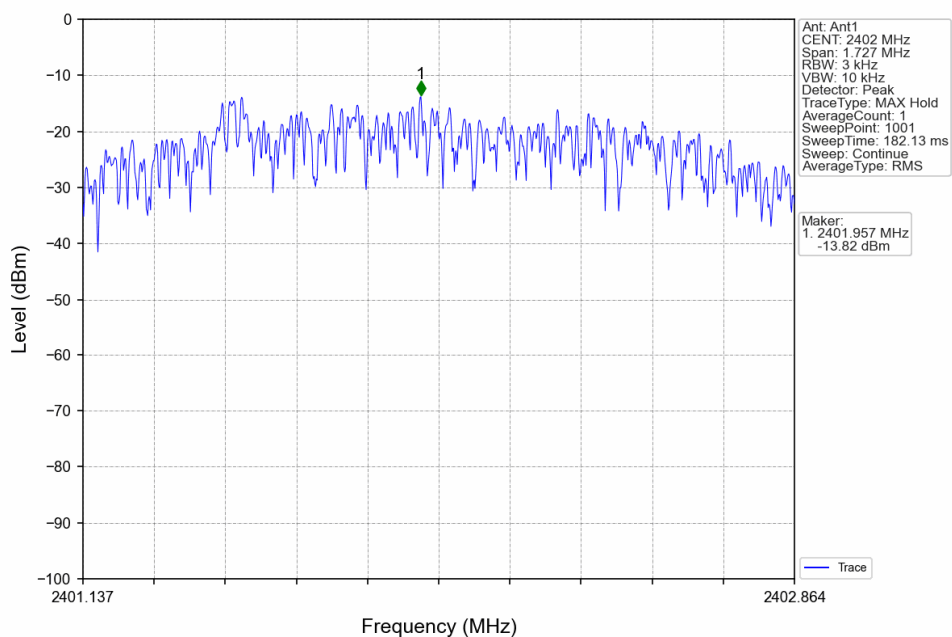
4.1.2 Test Graph



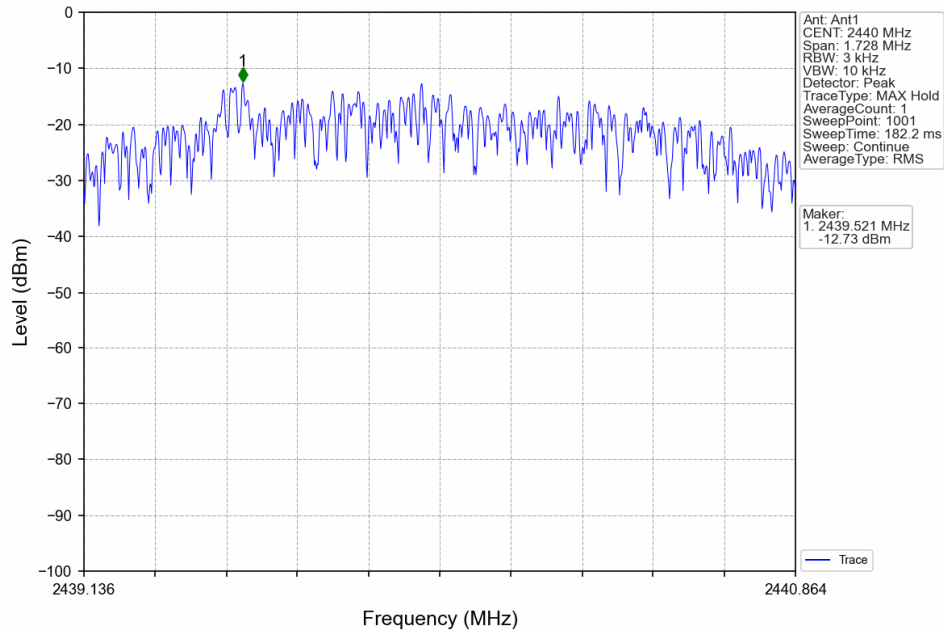
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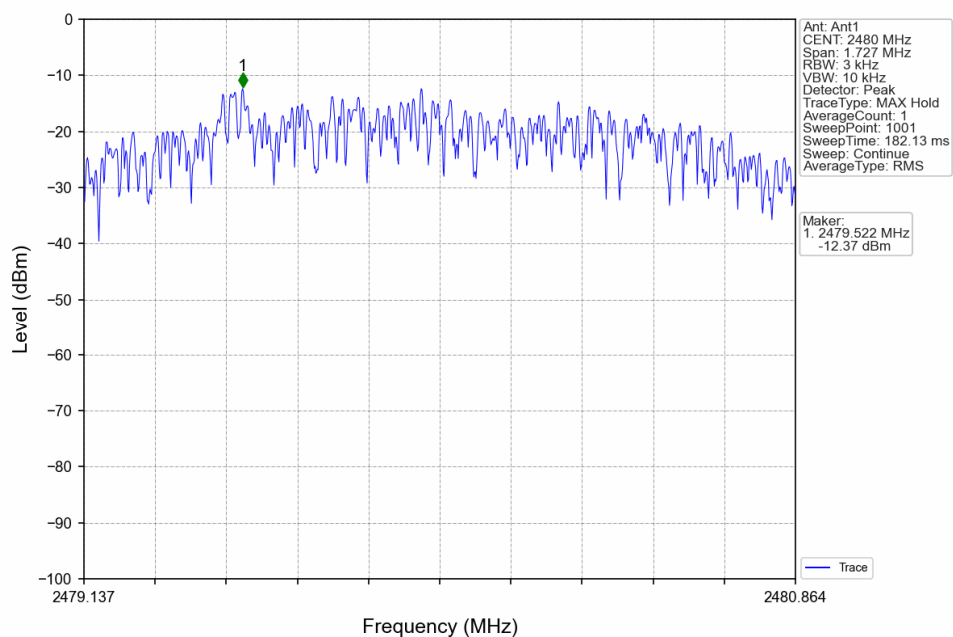
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

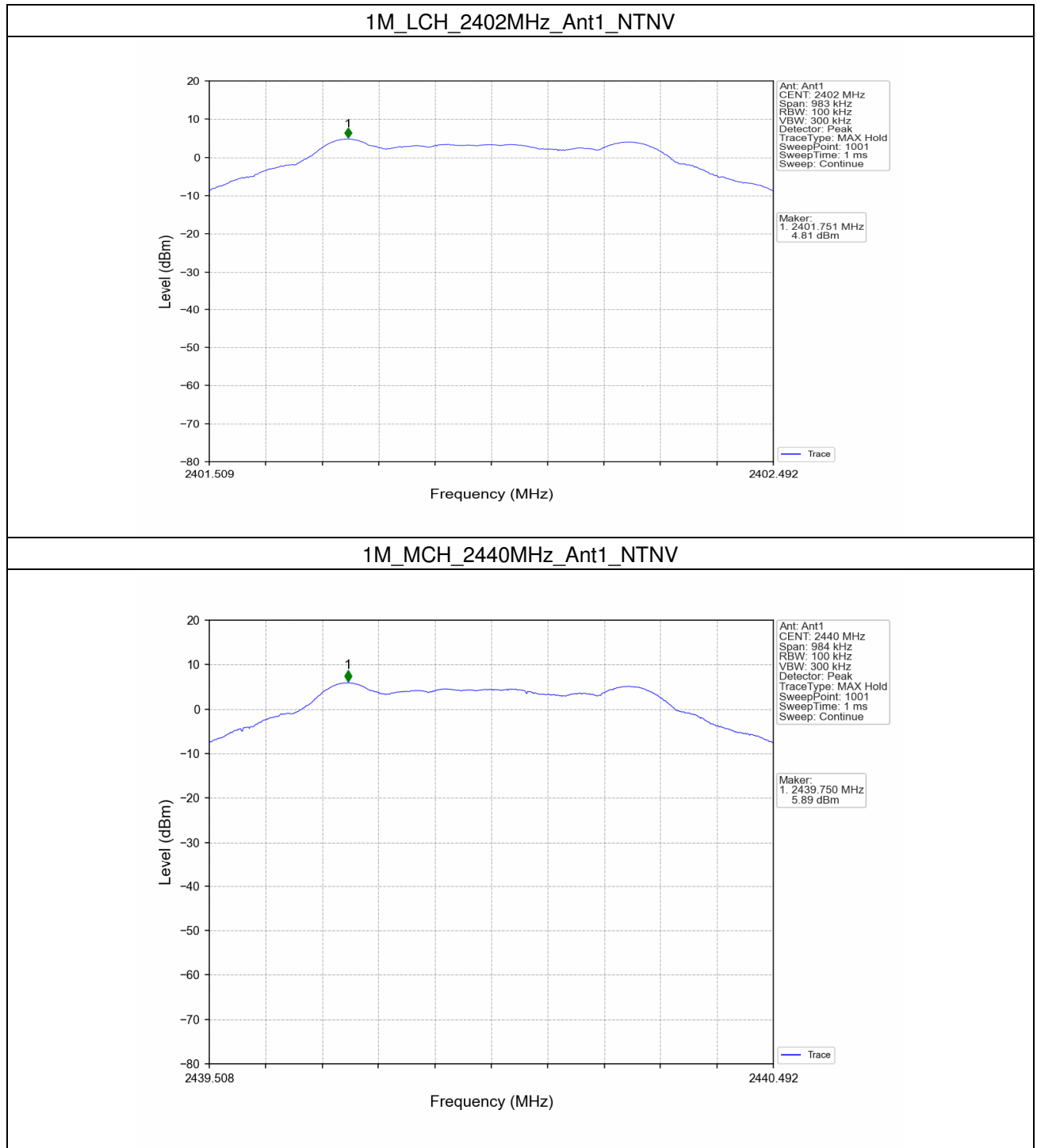
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	4.81
		2440	1	5.89
		2480	1	6.22
2M	SISO	2402	1	4.74
		2440	1	5.88
		2480	1	6.21

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



5.1.2 Test Graph



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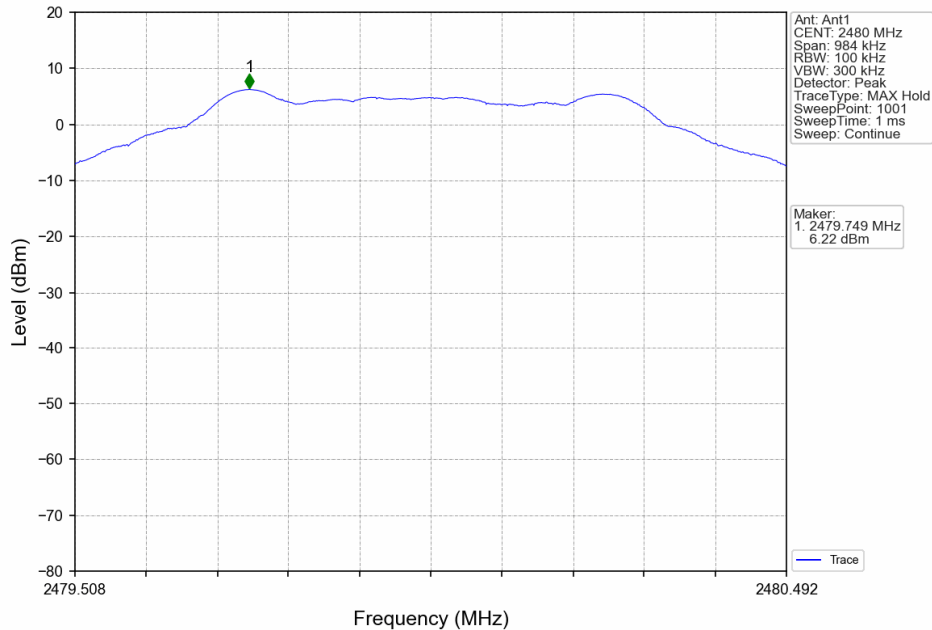
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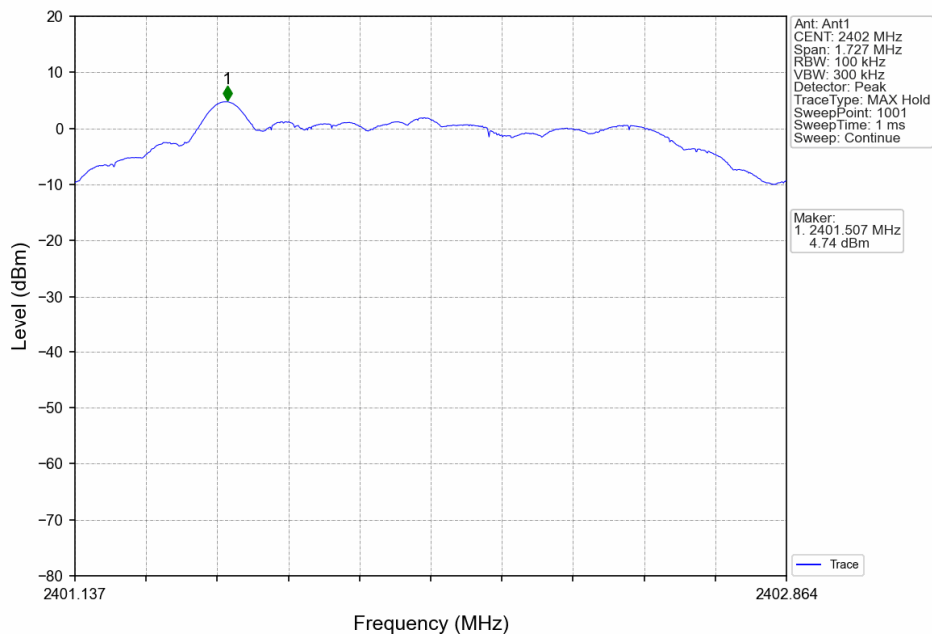
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



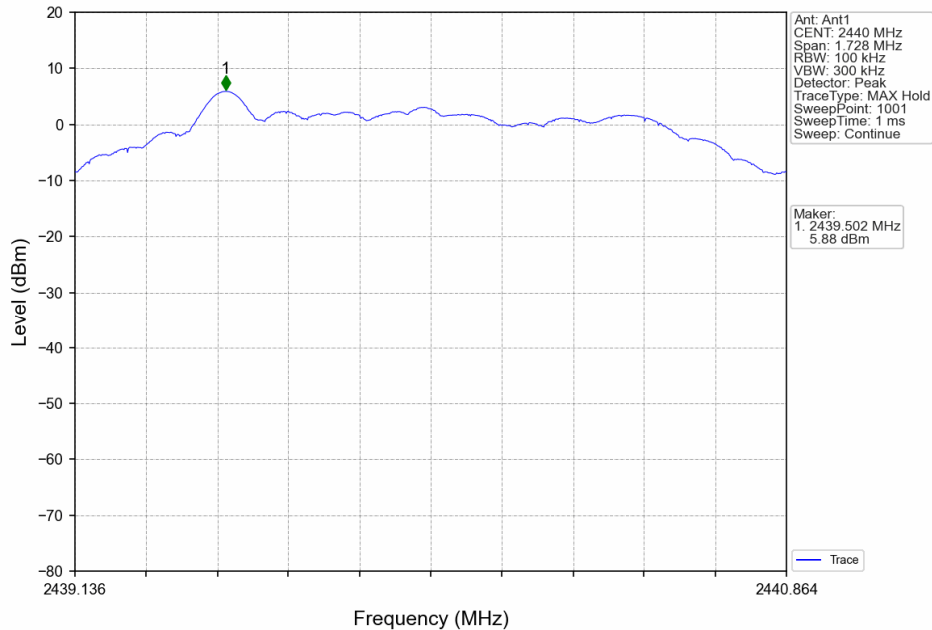
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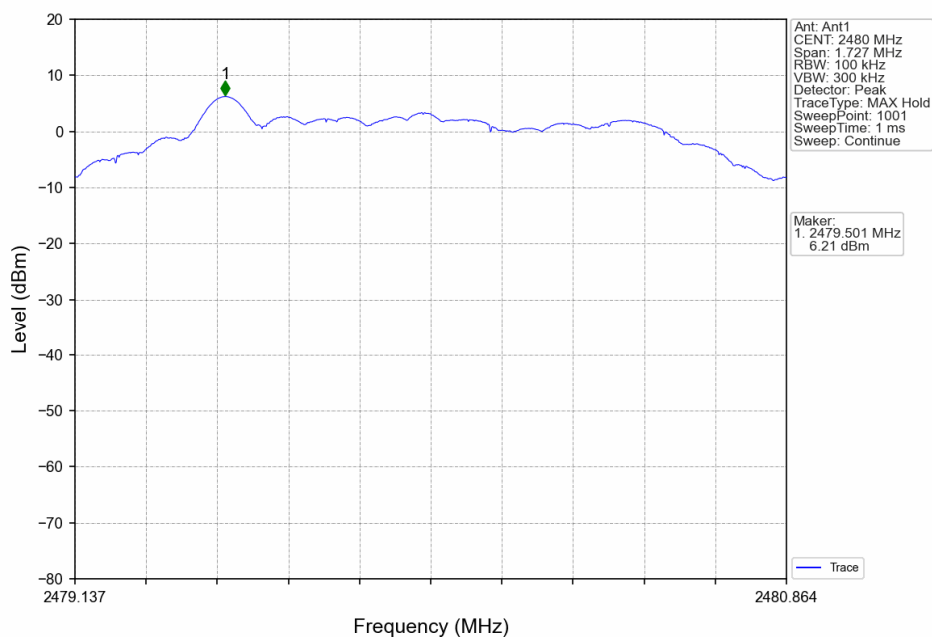
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2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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SZEMC-TRF-01 Rev. A/0 Aug01,2022

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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	6.22	-13.78	Pass
		2440	1	6.22	-13.78	Pass
		2480	1	6.22	-13.78	Pass
2M	SISO	2402	1	6.21	-13.79	Pass
		2440	1	6.21	-13.79	Pass
		2480	1	6.21	-13.79	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



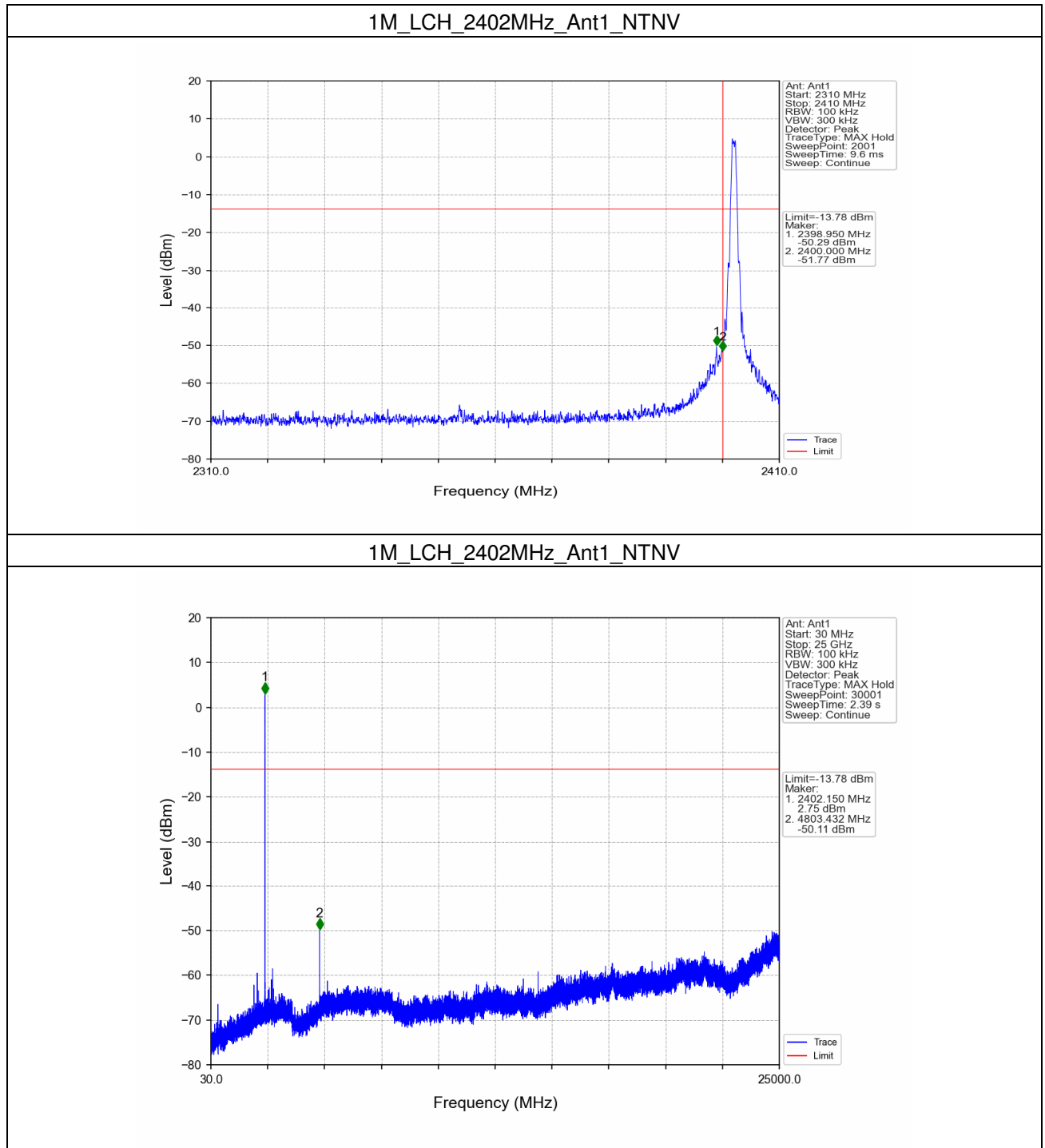
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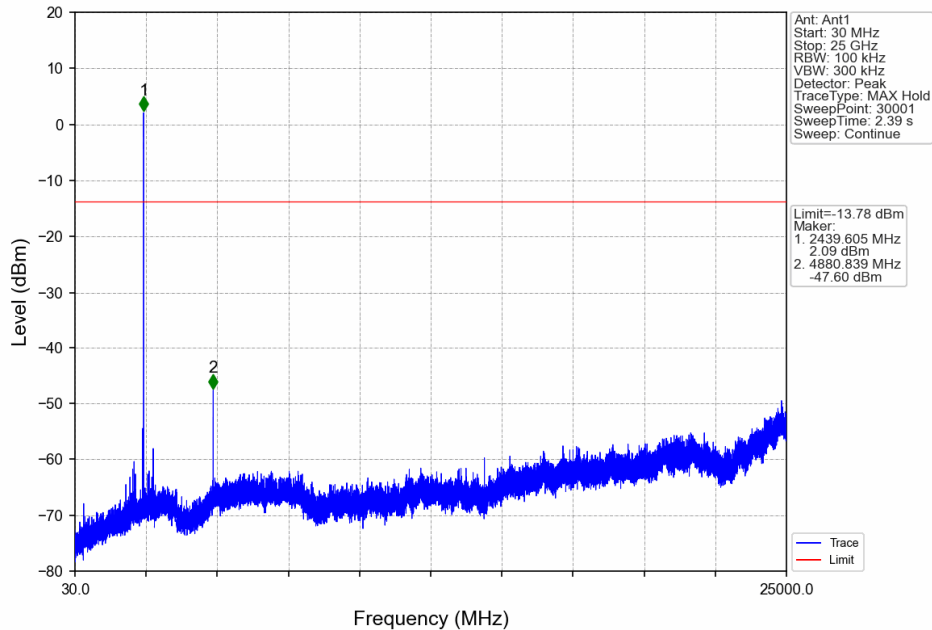
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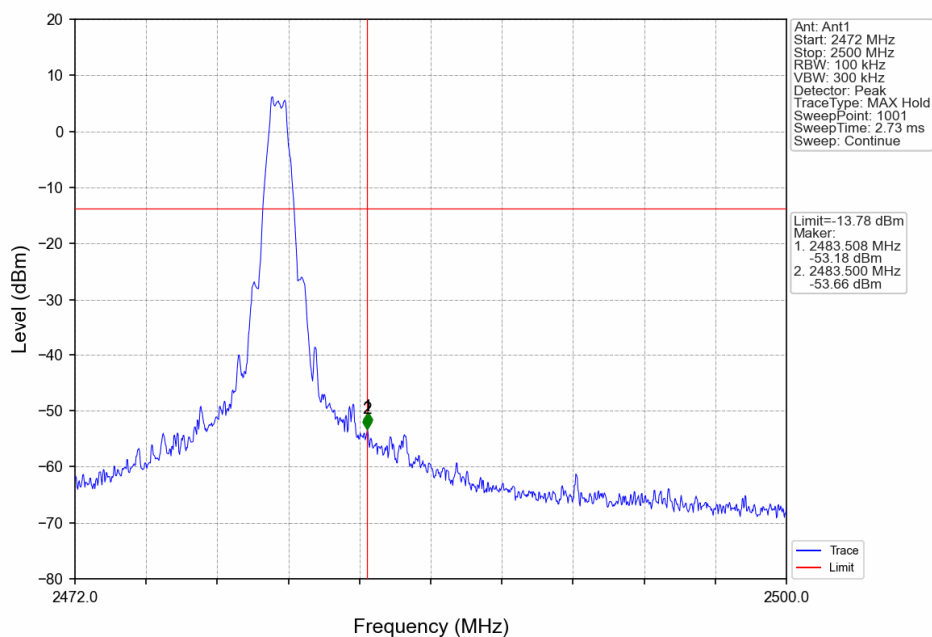
5.2.2 Test Graph



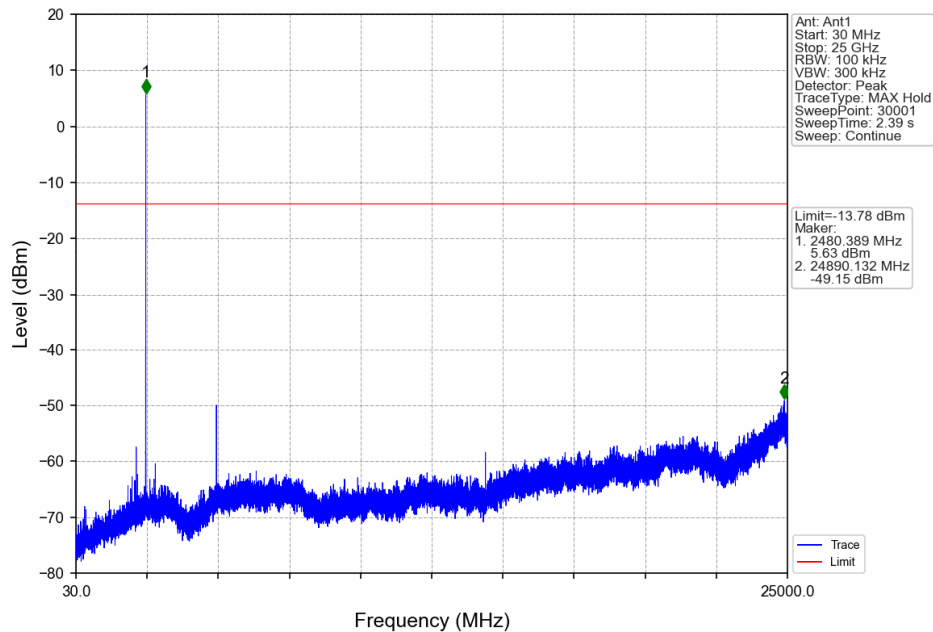
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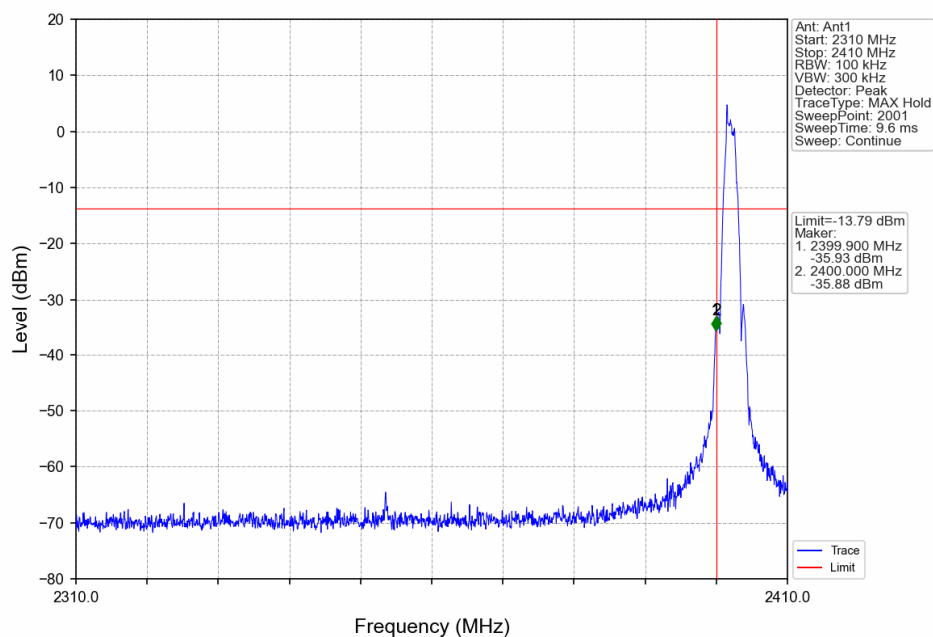
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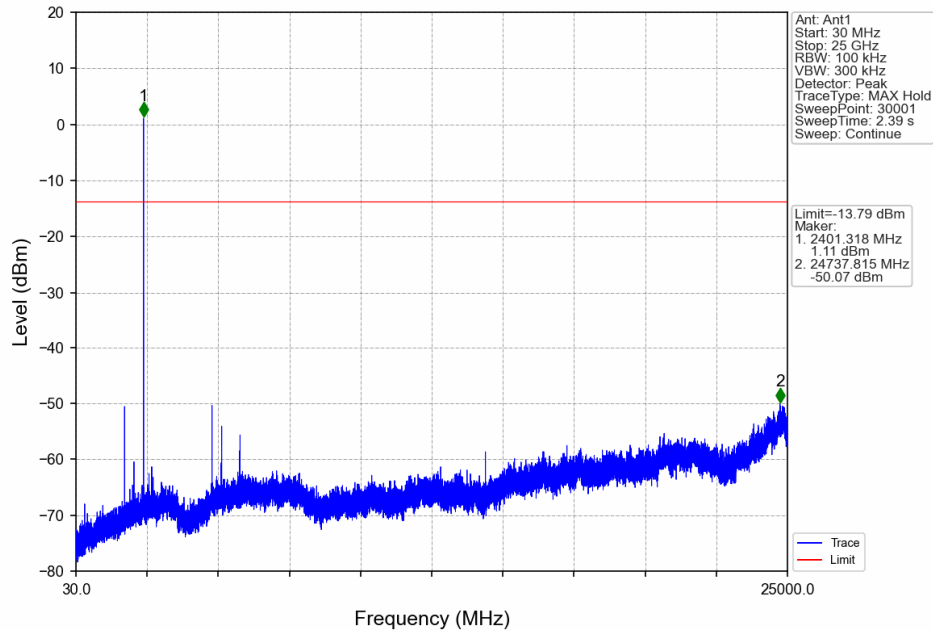
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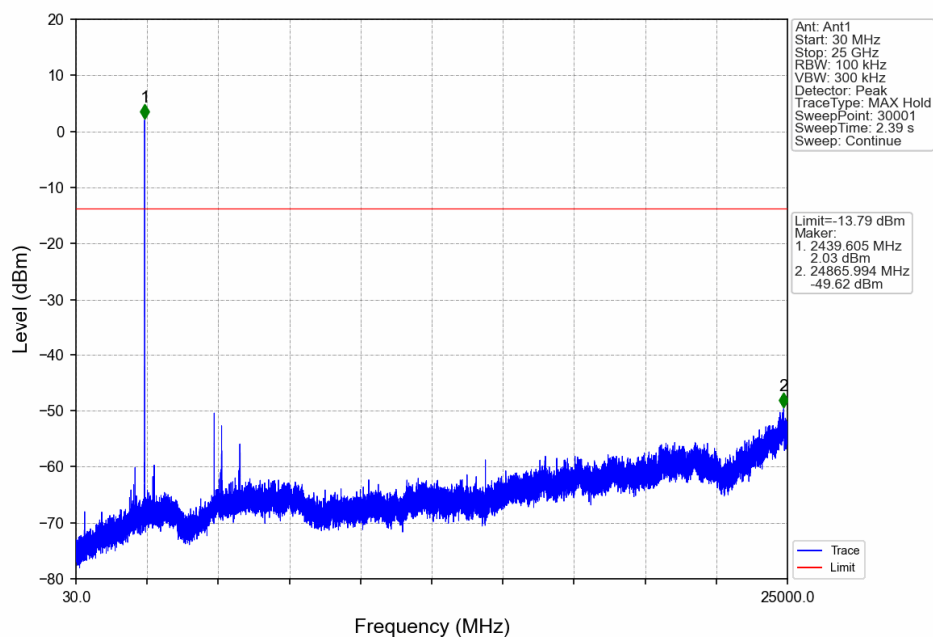
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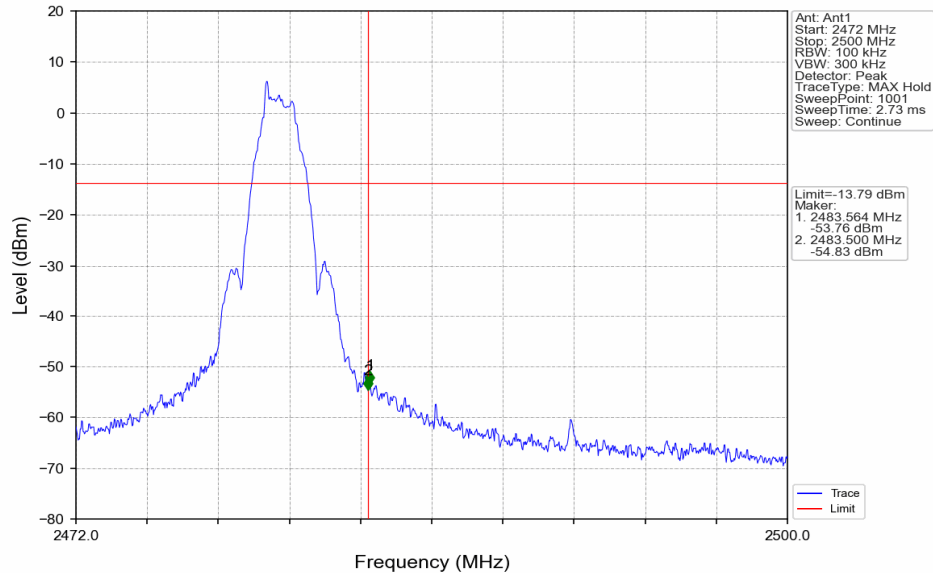
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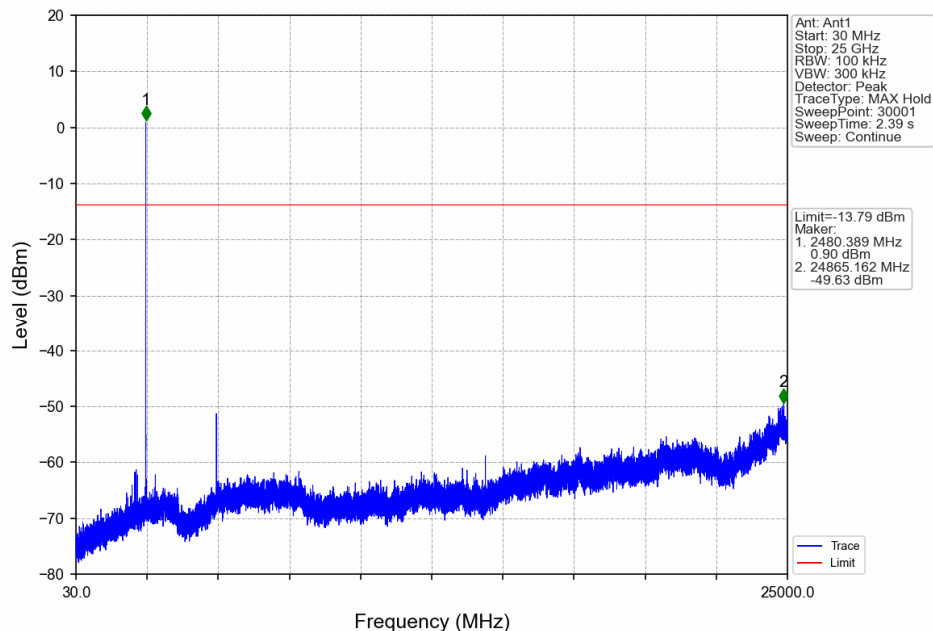
2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



- End of the Report -

