

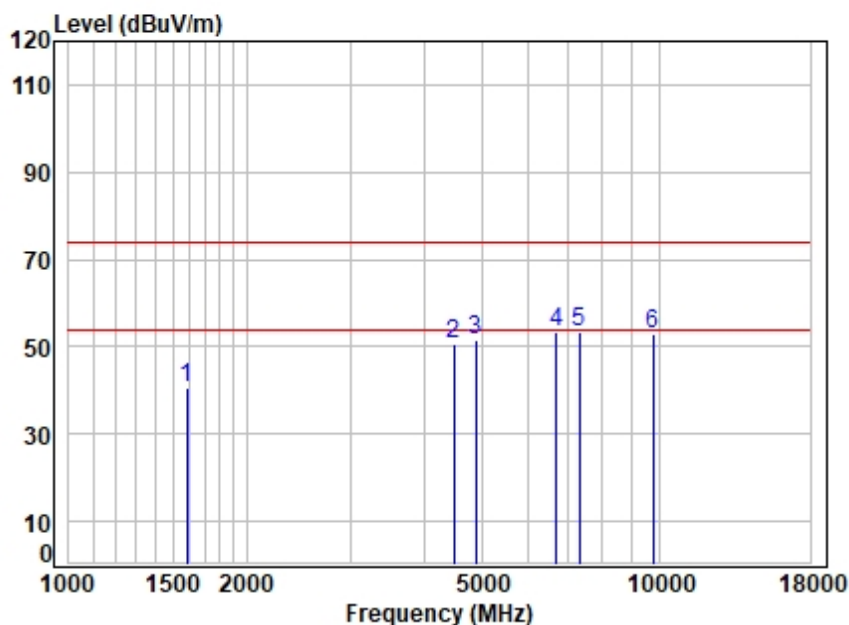
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR221000041903

Page: 61 of 129

Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00419AT/00420AT
Mode : 2440 TX RSE
: BLE 2M L

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1583.392	3.95	24.75	52.90	64.88	40.68	74.00	-33.32	peak
2	4482.150	7.47	30.18	52.95	66.09	50.79	74.00	-23.21	peak
3	4880.000	8.11	31.12	53.07	65.50	51.66	74.00	-22.34	peak
4	6698.373	7.90	35.09	53.30	63.61	53.30	74.00	-20.70	peak
5	7320.000	8.35	36.19	53.53	62.36	53.37	74.00	-20.63	peak
6	9760.000	11.30	37.87	53.43	57.34	53.08	74.00	-20.92	peak



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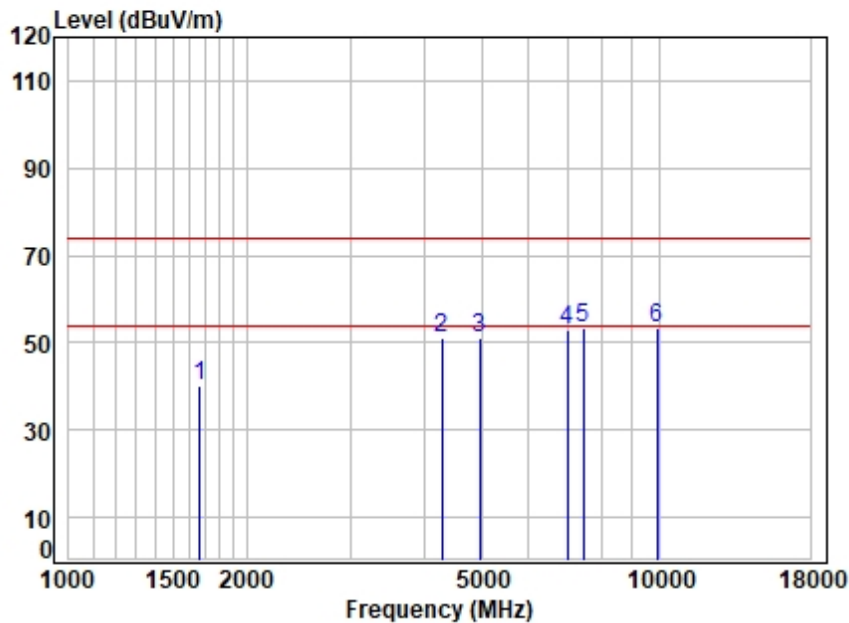
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Test Mode: 05; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00419AT/00420AT
 Mode : 2480 TX RSE
 : BLE 2M L

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1667.951	4.13	24.94	52.94	64.23	40.36	74.00	-33.64 peak
2	4291.977	7.48	29.92	52.89	66.45	50.96	74.00	-23.04 peak
3	4960.000	8.24	31.31	53.09	64.42	50.88	74.00	-23.12 peak
4	6995.172	8.19	35.79	53.50	62.44	52.92	74.00	-21.08 peak
5	7440.000	8.40	36.33	53.55	62.14	53.32	74.00	-20.68 peak
6	9920.000	11.18	38.22	53.28	57.41	53.53	74.00	-20.47 peak



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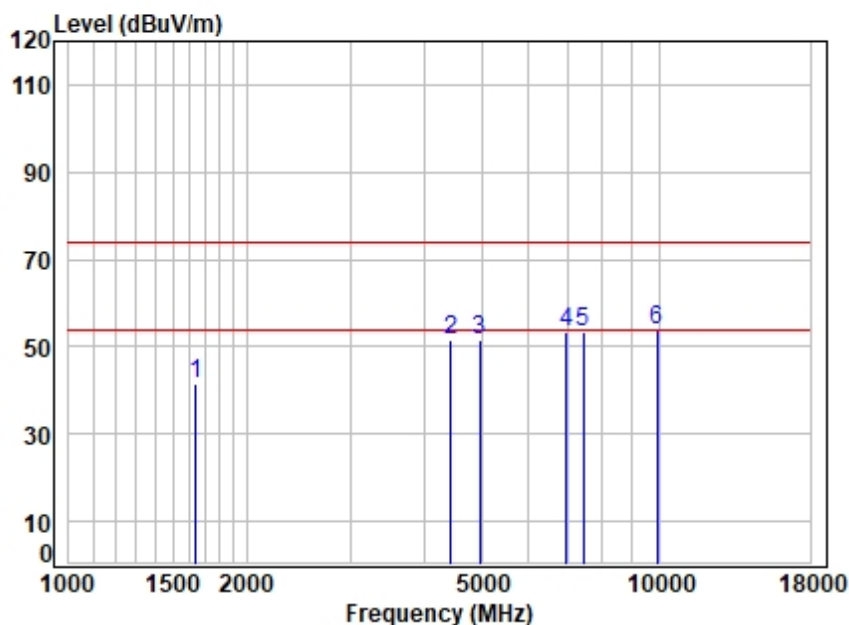
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Test Mode: 05; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00419AT/00420AT
Mode : 2480 TX RSE
: BLE 2M L

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1639.274	4.07	24.88	52.93	65.35	41.37	74.00	-32.63	peak
2	4430.628	7.47	30.11	52.94	66.96	51.60	74.00	-22.40	peak
3	4960.000	8.24	31.31	53.09	65.07	51.53	74.00	-22.47	peak
4	6954.852	8.15	35.70	53.47	62.86	53.24	74.00	-20.76	peak
5	7440.000	8.40	36.33	53.55	62.13	53.31	74.00	-20.69	peak
6	9920.000	11.18	38.22	53.28	57.79	53.91	74.00	-20.09	peak



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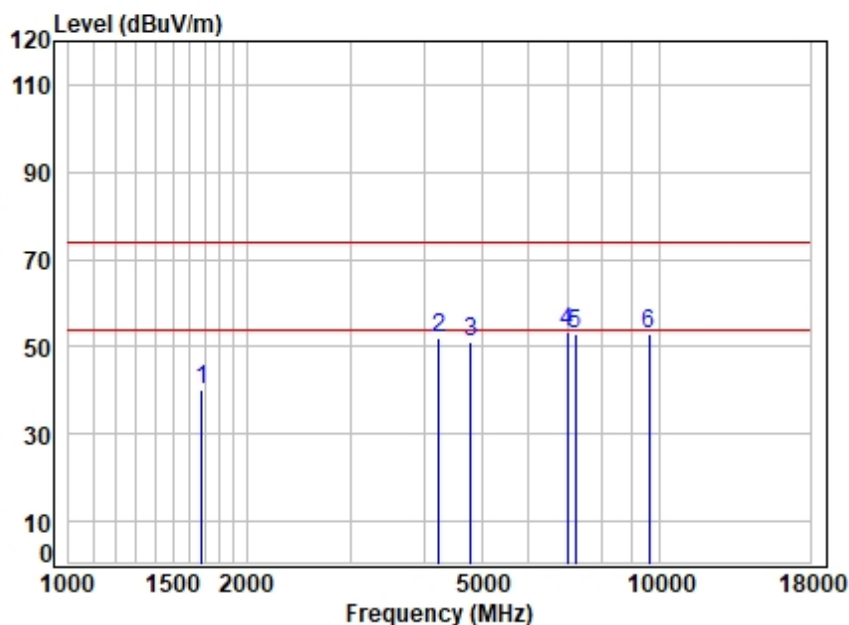
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Report No.: FYCR221000041903

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Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00419AT/00420AT
Mode : 2402 TX RSE
: BLE R

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	4.16	24.97	52.95	64.18	40.36	74.00	-33.64	peak
2	4230.396	7.48	29.83	52.88	67.44	51.87	74.00	-22.13	peak
3	4804.000	7.98	30.94	53.05	65.07	50.94	74.00	-23.06	peak
4	6995.172	8.19	35.79	53.50	62.81	53.29	74.00	-20.71	peak
5	7206.000	8.29	36.05	53.52	62.21	53.03	74.00	-20.97	peak
6	9608.000	11.41	37.53	53.58	57.72	53.08	74.00	-20.92	peak



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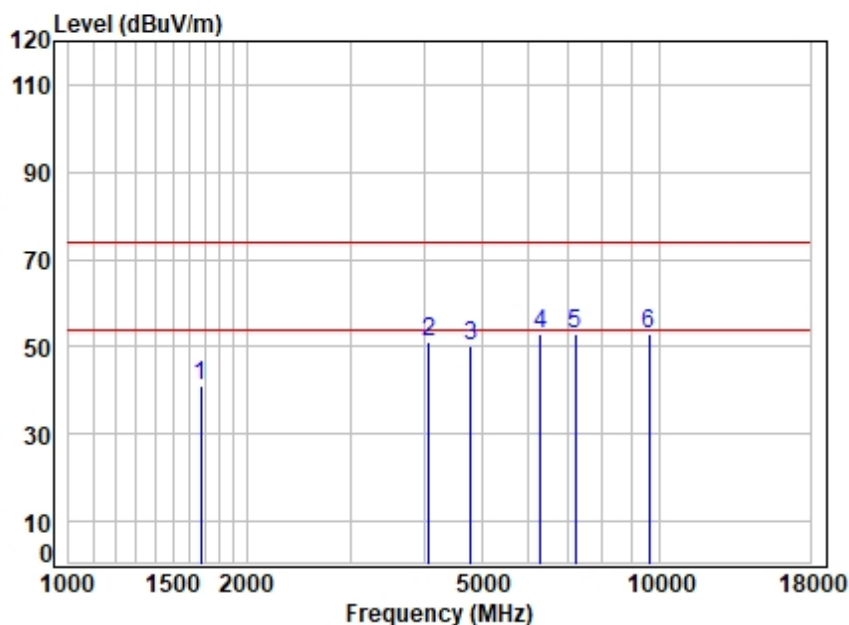
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00419AT/00420AT
Mode : 2402 TX RSE
: BLE R

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1672.779	4.14	24.95	52.95	64.88	41.02	74.00	-32.98 peak
2	4074.388	7.49	29.61	52.82	66.78	51.06	74.00	-22.94 peak
3	4804.000	7.98	30.94	53.05	64.15	50.02	74.00	-23.98 peak
4	6285.695	7.67	33.68	53.01	64.78	53.12	74.00	-20.88 peak
5	7206.000	8.29	36.05	53.52	62.05	52.87	74.00	-21.13 peak
6	9608.000	11.41	37.53	53.58	57.68	53.04	74.00	-20.96 peak



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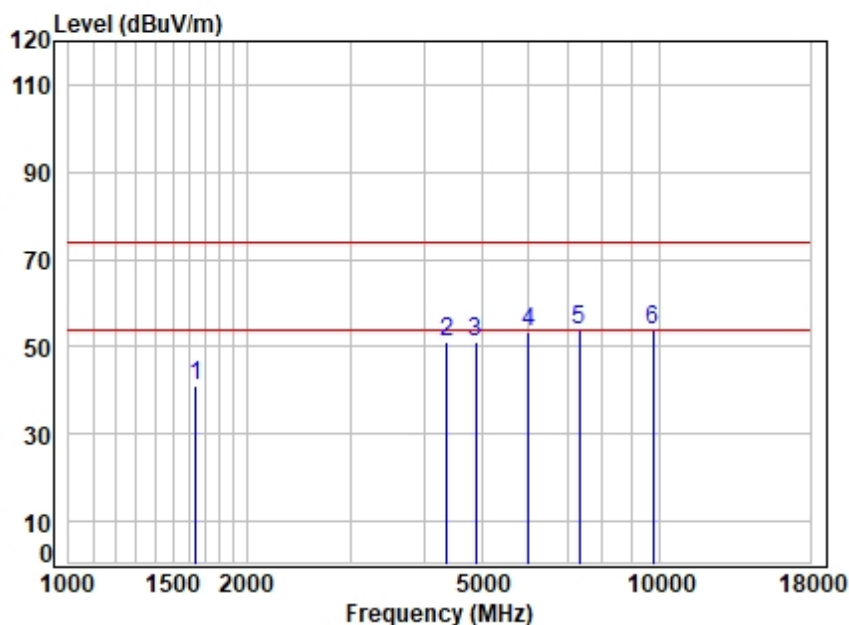
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00419AT/00420AT
Mode : 2440 TX RSE
: BLE R

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1639.274	4.07	24.88	52.93	65.20	41.22	74.00	-32.78	peak
2	4367.058	7.48	30.02	52.92	66.49	51.07	74.00	-22.93	peak
3	4880.000	8.11	31.12	53.07	64.85	51.01	74.00	-22.99	peak
4	6001.626	7.64	32.41	52.80	65.96	53.21	74.00	-20.79	peak
5	7320.000	8.35	36.19	53.53	62.68	53.69	74.00	-20.31	peak
6	9760.000	11.30	37.87	53.43	58.24	53.98	74.00	-20.02	peak



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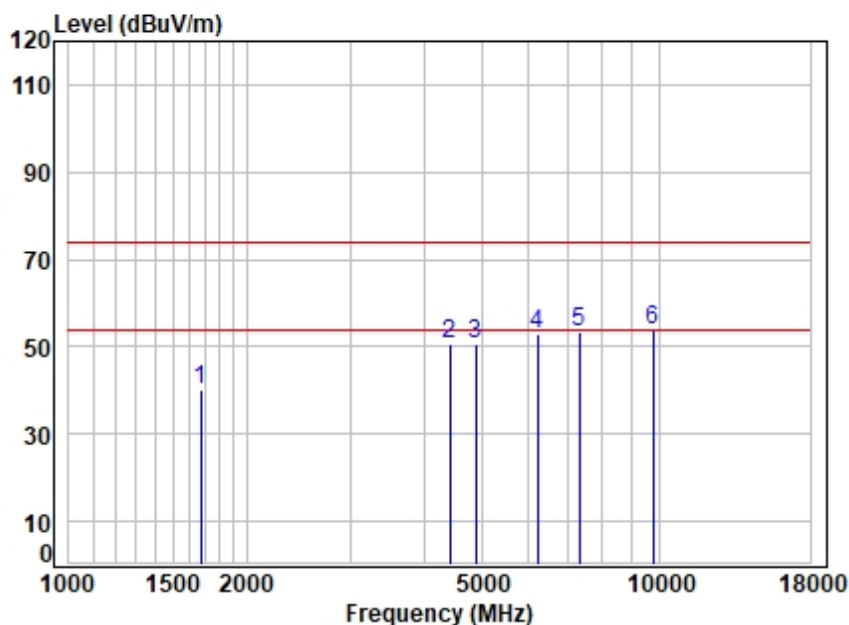
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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00419AT/00420AT
Mode : 2440 TX RSE
: BLE R

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	4.14	24.95	52.95	64.12	40.26	74.00	-33.74	peak
2	4417.841	7.47	30.09	52.93	65.99	50.62	74.00	-23.38	peak
3	4880.000	8.11	31.12	53.07	64.60	50.76	74.00	-23.24	peak
4	6231.427	7.67	33.44	52.97	64.73	52.87	74.00	-21.13	peak
5	7320.000	8.35	36.19	53.53	62.41	53.42	74.00	-20.58	peak
6	9760.000	11.30	37.87	53.43	58.06	53.80	74.00	-20.20	peak



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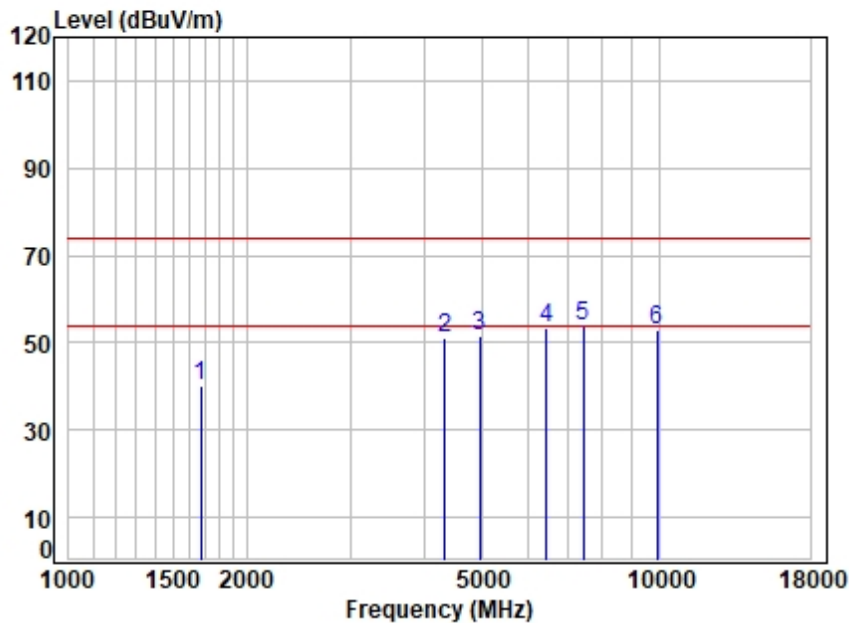
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Test Mode: 06; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00419AT/00420AT
Mode : 2480 TX RSE
: BLE R

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	4.14	24.95	52.95	63.96	40.10	74.00	-33.90	peak
2	4341.886	7.48	29.99	52.91	66.37	50.93	74.00	-23.07	peak
3	4960.000	8.24	31.31	53.09	64.88	51.34	74.00	-22.66	peak
4	6432.732	7.69	34.31	53.12	64.70	53.58	74.00	-20.42	peak
5	7440.000	8.40	36.33	53.55	62.74	53.92	74.00	-20.08	peak
6	9920.000	11.18	38.22	53.28	56.98	53.10	74.00	-20.90	peak



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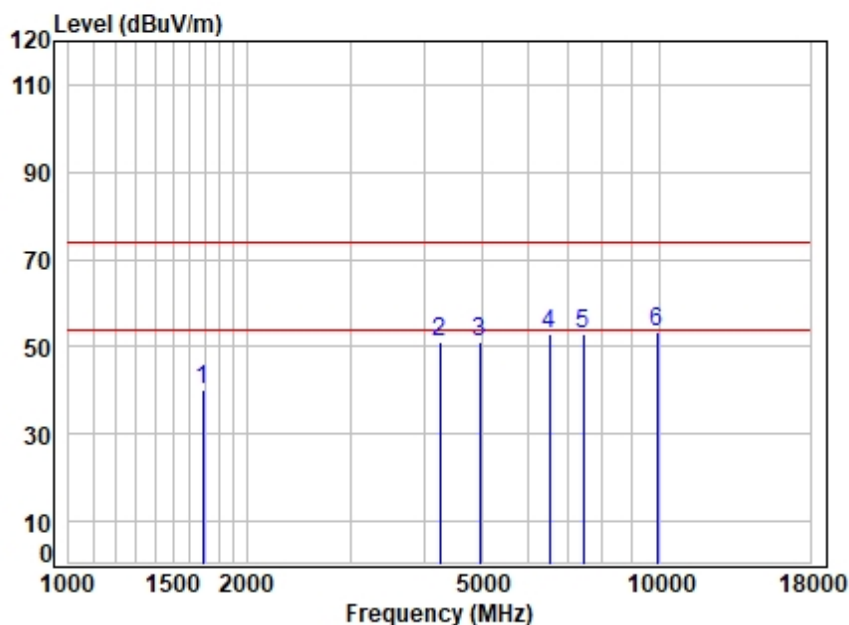
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Test Mode: 06; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00419AT/00420AT
Mode : 2480 TX RSE
: BLE R

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1687.347	4.17	24.98	52.95	63.85	40.05	74.00	-33.95 peak
2	4242.641	7.48	29.85	52.88	66.53	50.98	74.00	-23.02 peak
3	4960.000	8.24	31.31	53.09	64.49	50.95	74.00	-23.05 peak
4	6526.373	7.73	34.67	53.18	63.72	52.94	74.00	-21.06 peak
5	7440.000	8.40	36.33	53.55	61.77	52.95	74.00	-21.05 peak
6	9920.000	11.18	38.22	53.28	57.20	53.32	74.00	-20.68 peak



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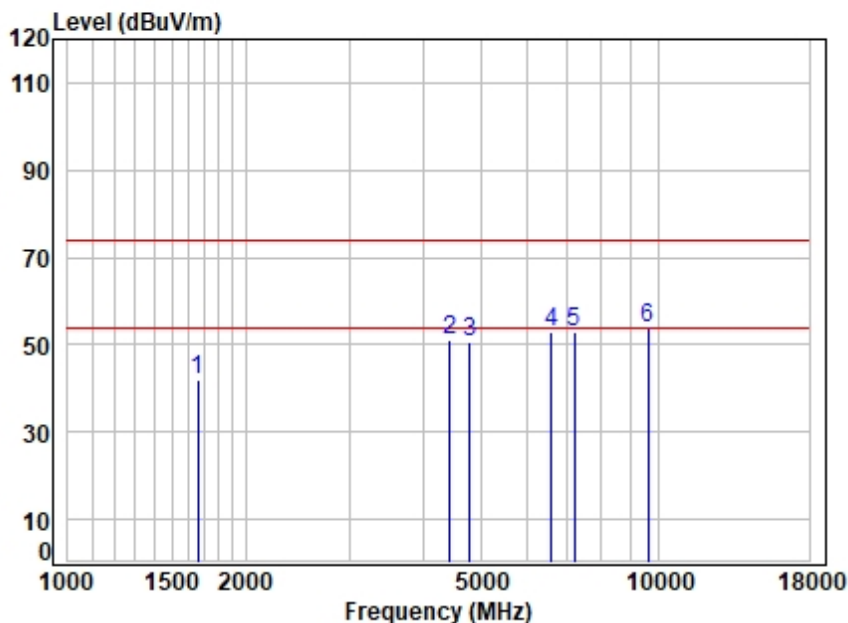
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Report No.: FYCR221000041903

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



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00419AT/00420AT
Mode : 2402 TX RSE
: BLE 2M R

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.337	4.11	24.92	52.94	65.68	41.77	74.00	-32.23	peak
2	4443.453	7.47	30.12	52.94	66.67	51.32	74.00	-22.68	peak
3	4804.000	7.98	30.94	53.05	64.65	50.52	74.00	-23.48	peak
4	6583.209	7.78	34.81	53.22	63.61	52.98	74.00	-21.02	peak
5	7206.000	8.29	36.05	53.52	62.23	53.05	74.00	-20.95	peak
6	9608.000	11.41	37.53	53.58	58.27	53.63	74.00	-20.37	peak



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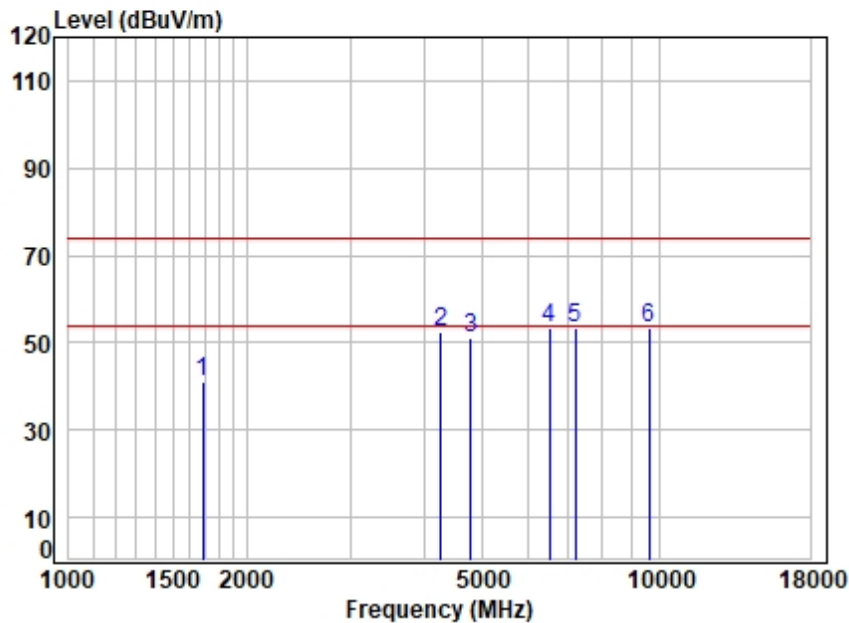
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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00419AT/00420AT
Mode : 2402 TX RSE
: BLE 2M R

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.347	4.17	24.98	52.95	64.68	40.88	74.00	-33.12	peak
2	4267.237	7.48	29.88	52.89	68.05	52.52	74.00	-21.48	peak
3	4804.000	7.98	30.94	53.05	65.37	51.24	74.00	-22.76	peak
4	6526.373	7.73	34.67	53.18	64.17	53.39	74.00	-20.61	peak
5	7206.000	8.29	36.05	53.52	62.67	53.49	74.00	-20.51	peak
6	9608.000	11.41	37.53	53.58	58.06	53.42	74.00	-20.58	peak



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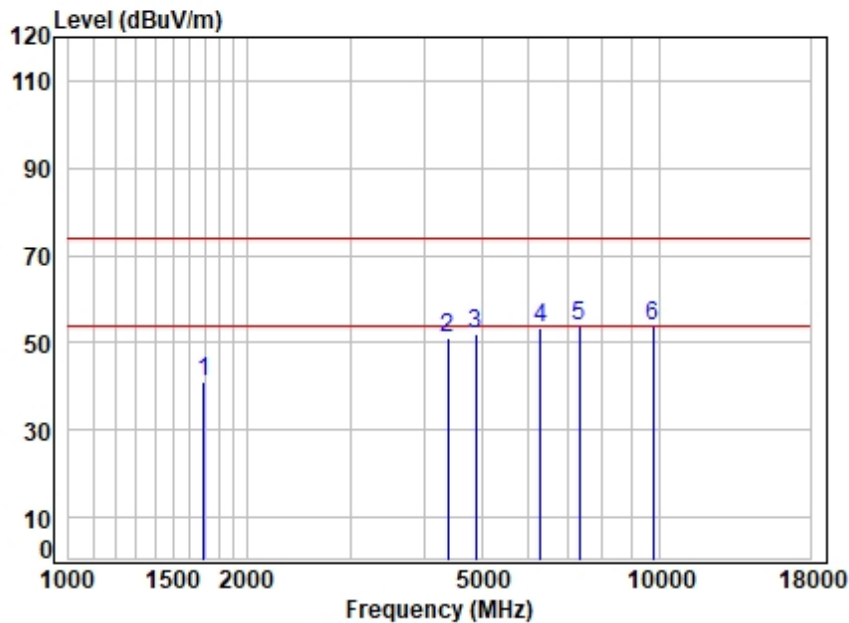
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Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00419AT/00420AT
 Mode : 2440 TX RSE
 : BLE 2M R

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1692.231	4.18	24.99	52.96	64.95	41.16	74.00	-32.84	peak
2	4379.699	7.47	30.04	52.92	66.65	51.24	74.00	-22.76	peak
3	4880.000	8.11	31.12	53.07	65.77	51.93	74.00	-22.07	peak
4	6303.890	7.68	33.76	53.02	64.84	53.26	74.00	-20.74	peak
5	7320.000	8.35	36.19	53.53	62.65	53.66	74.00	-20.34	peak
6	9760.000	11.30	37.87	53.43	58.09	53.83	74.00	-20.17	peak



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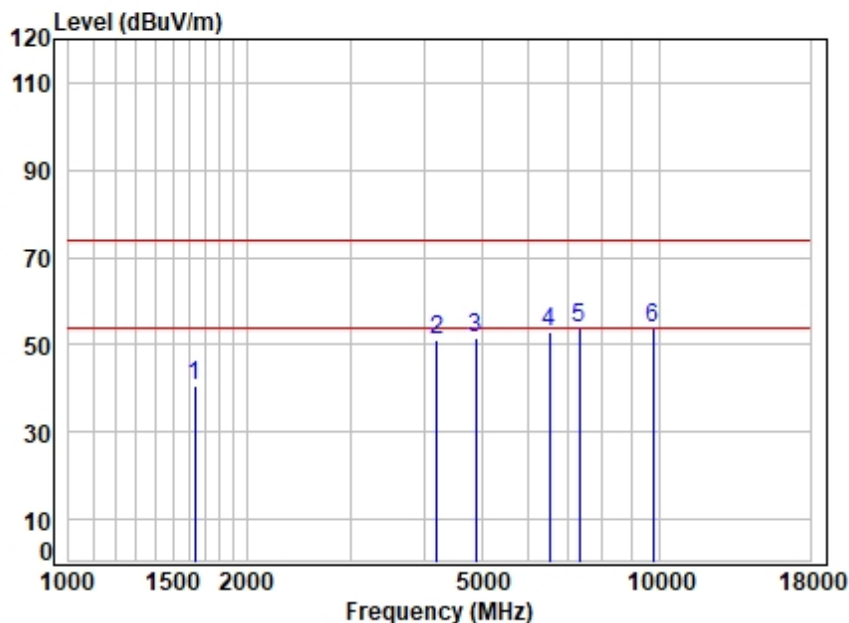
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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00419AT/00420AT
Mode : 2440 TX RSE
: BLE 2M R

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1634.543	4.06	24.87	52.93	64.51	40.51	74.00	-33.49	peak
2	4193.872	7.48	29.78	52.86	66.55	50.95	74.00	-23.05	peak
3	4880.000	8.11	31.12	53.07	65.38	51.54	74.00	-22.46	peak
4	6526.373	7.73	34.67	53.18	63.74	52.96	74.00	-21.04	peak
5	7320.000	8.35	36.19	53.53	62.98	53.99	74.00	-20.01	peak
6	9760.000	11.30	37.87	53.43	58.06	53.80	74.00	-20.20	peak



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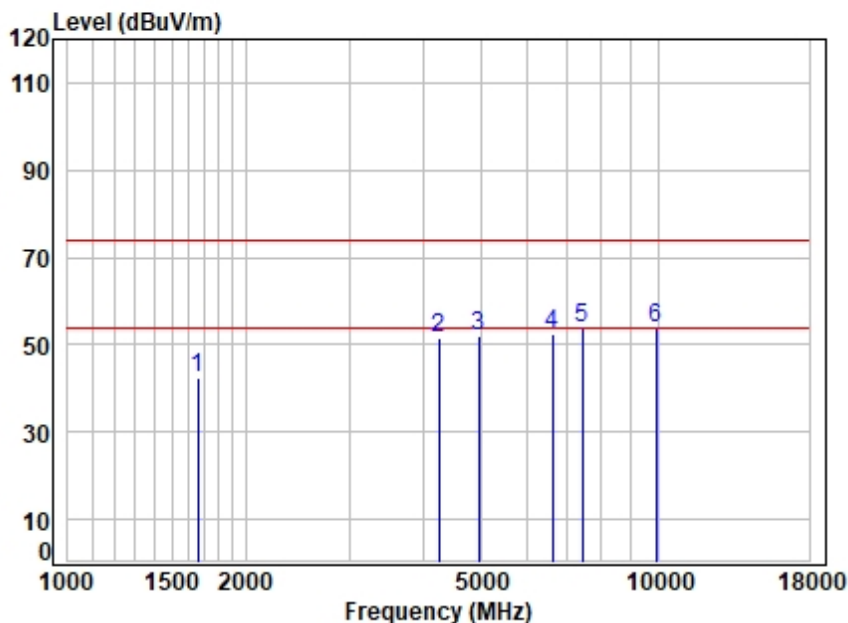
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Report No.: FYCR221000041903

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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00419AT/00420AT
 Mode : 2480 TX RSE
 : BLE 2M R

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.137	4.12	24.93	52.94	66.11	42.22	74.00	-31.78	peak
2	4254.921	7.48	29.87	52.88	67.01	51.48	74.00	-22.52	peak
3	4960.000	8.24	31.31	53.09	65.41	51.87	74.00	-22.13	peak
4	6621.375	7.82	34.90	53.25	63.23	52.70	74.00	-21.30	peak
5	7440.000	8.40	36.33	53.55	62.78	53.96	74.00	-20.04	peak
6	9920.000	11.18	38.22	53.28	57.87	53.99	74.00	-20.01	peak



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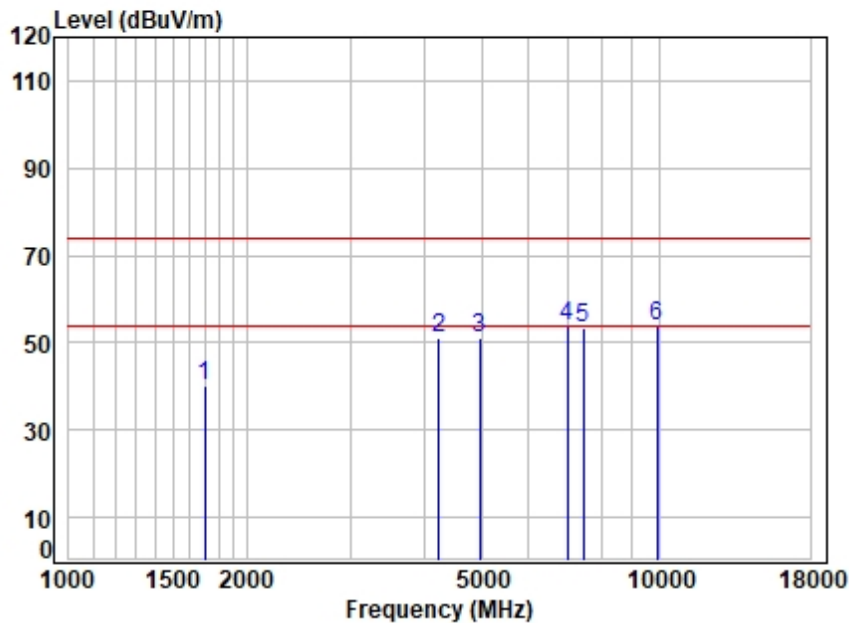
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Test Mode: 07; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00419AT/00420AT
Mode : 2480 TX RSE
: BLE 2M R

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	4.20	25.01	52.96	64.02	40.27	74.00	-33.73	peak
2	4230.396	7.48	29.83	52.88	66.67	51.10	74.00	-22.90	peak
3	4960.000	8.24	31.31	53.09	64.79	51.25	74.00	-22.75	peak
4	6995.172	8.19	35.79	53.50	63.19	53.67	74.00	-20.33	peak
5	7440.000	8.40	36.33	53.55	62.32	53.50	74.00	-20.50	peak
6	9920.000	11.18	38.22	53.28	57.81	53.93	74.00	-20.07	peak



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2210000419AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2210000419AT



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10 Appendix

Right earbud

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	0.410	0.625	65.60	1.83	0.00
		2440	0.410	0.625	65.60	1.83	0.00
		2480	0.410	0.625	65.60	1.83	0.02
2M	SISO	2402	0.226	0.625	36.16	4.42	0.00
		2440	0.226	0.625	36.16	4.42	0.02
		2480	0.225	0.625	36.00	4.44	0.00



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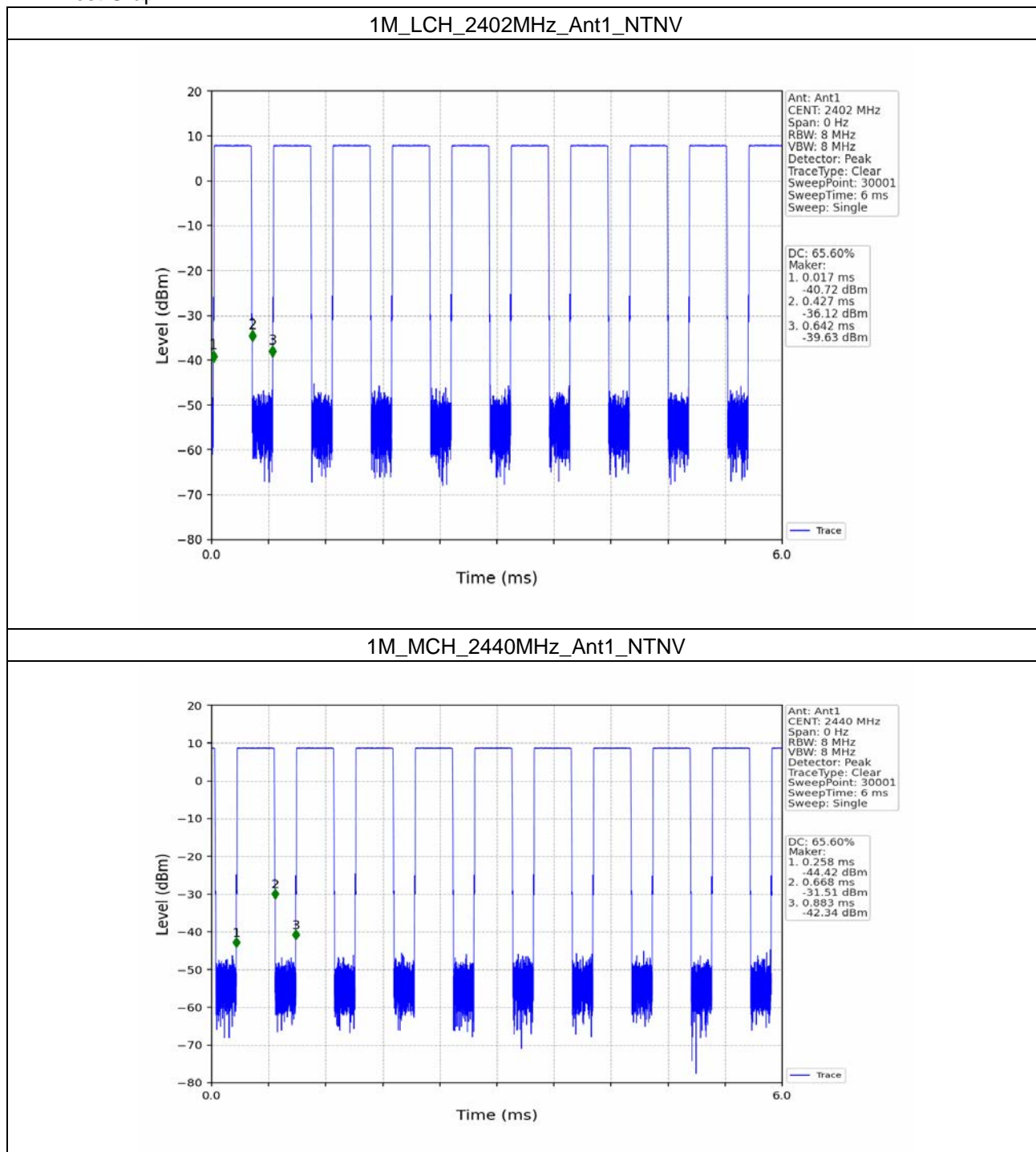
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1.1.2 Test Graph



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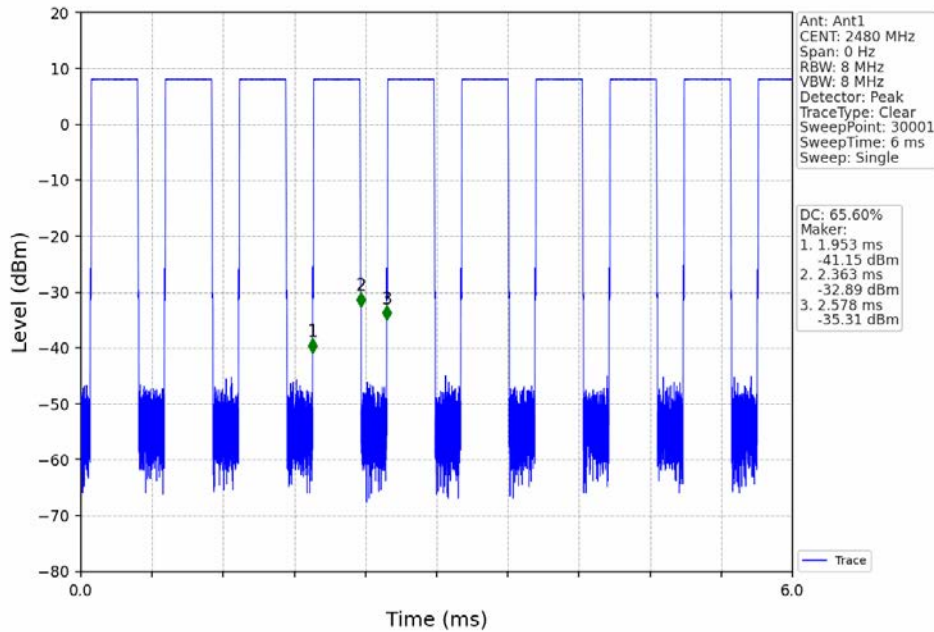
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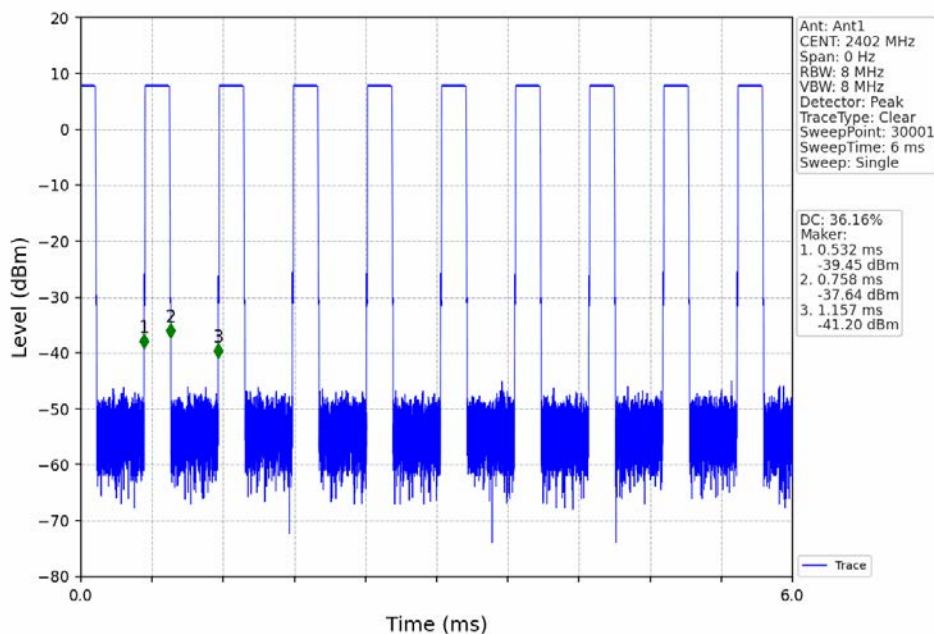
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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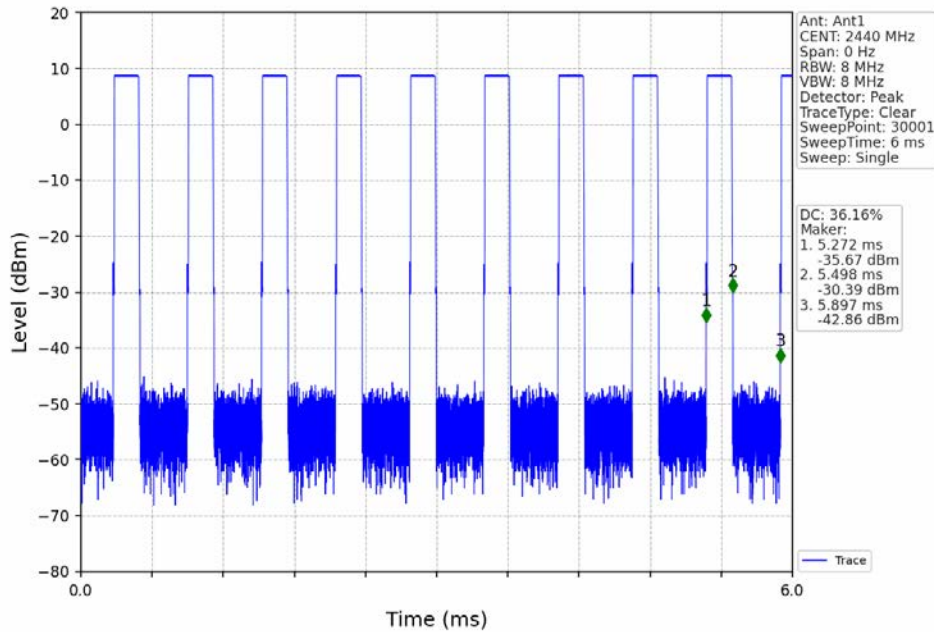
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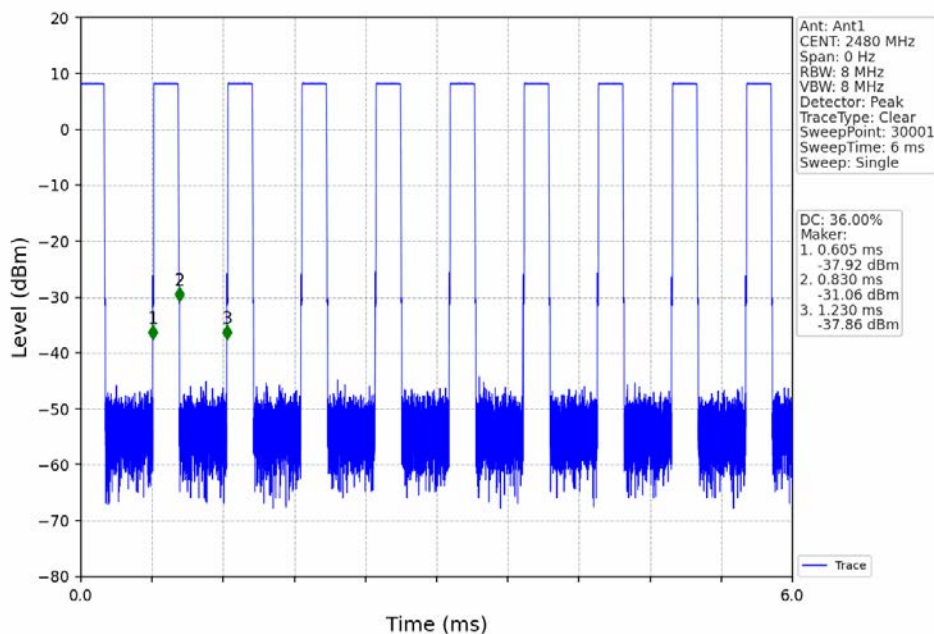
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2M_MCH_2440MHz_Ant1_NTNV



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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	1.045	Pass
		2440	1	1.043	Pass
		2480	1	1.043	Pass
2M	SISO	2402	1	2.071	Pass
		2440	1	2.069	Pass
		2480	1	2.066	Pass



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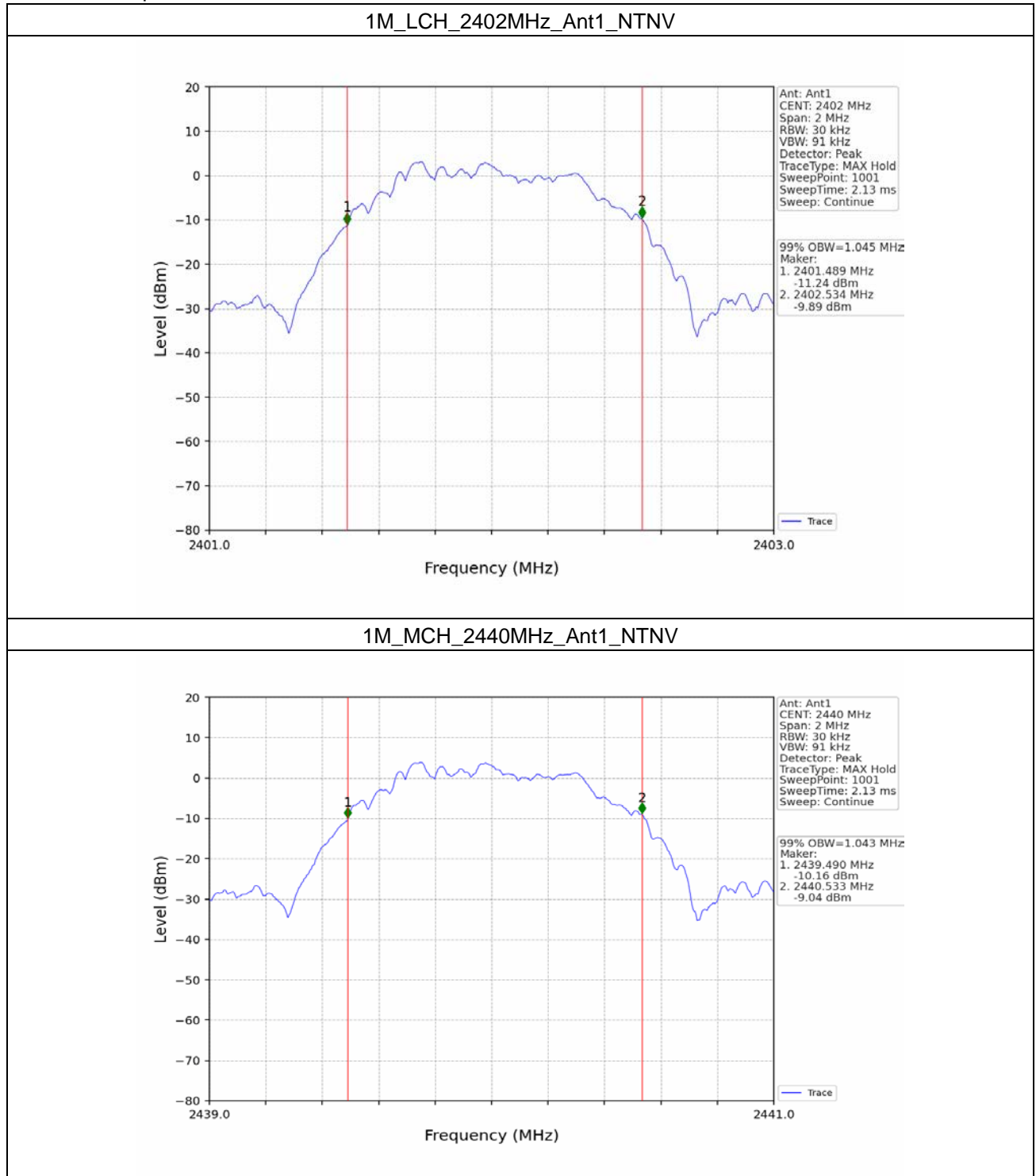
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2.1.2 Test Graph



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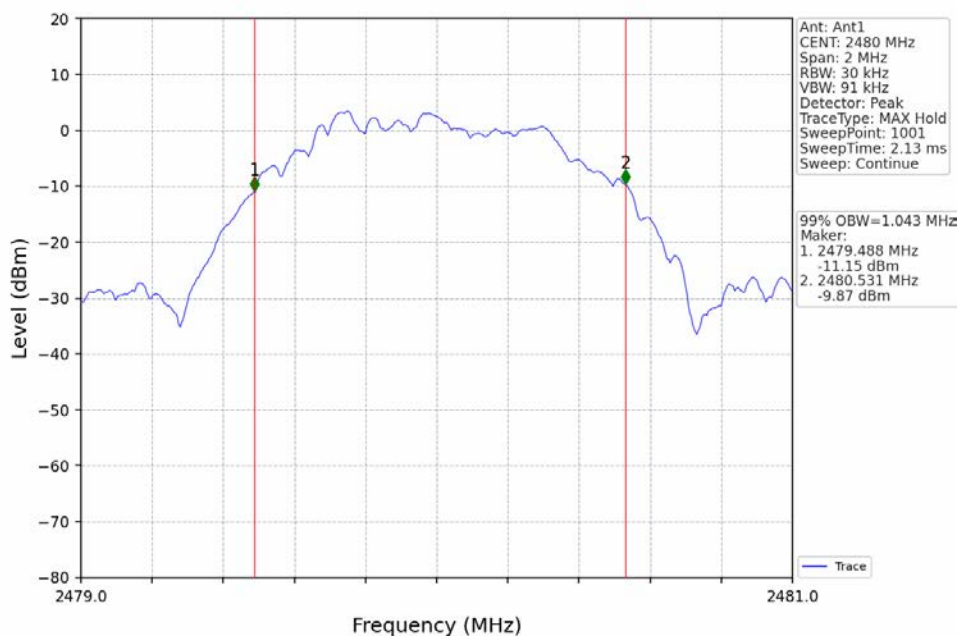
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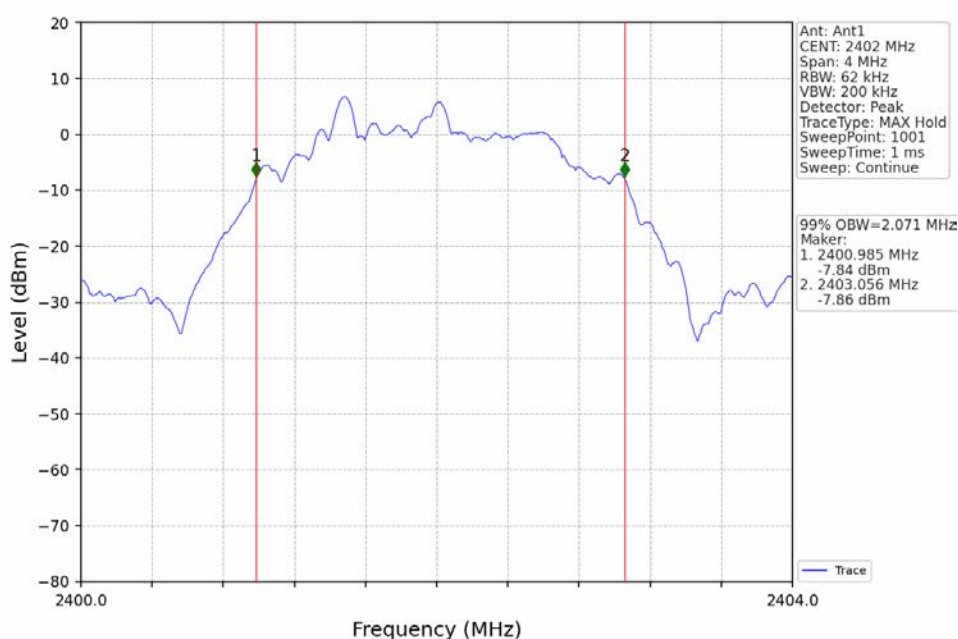
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2M_LCH_2402MHz_Ant1_NTNV



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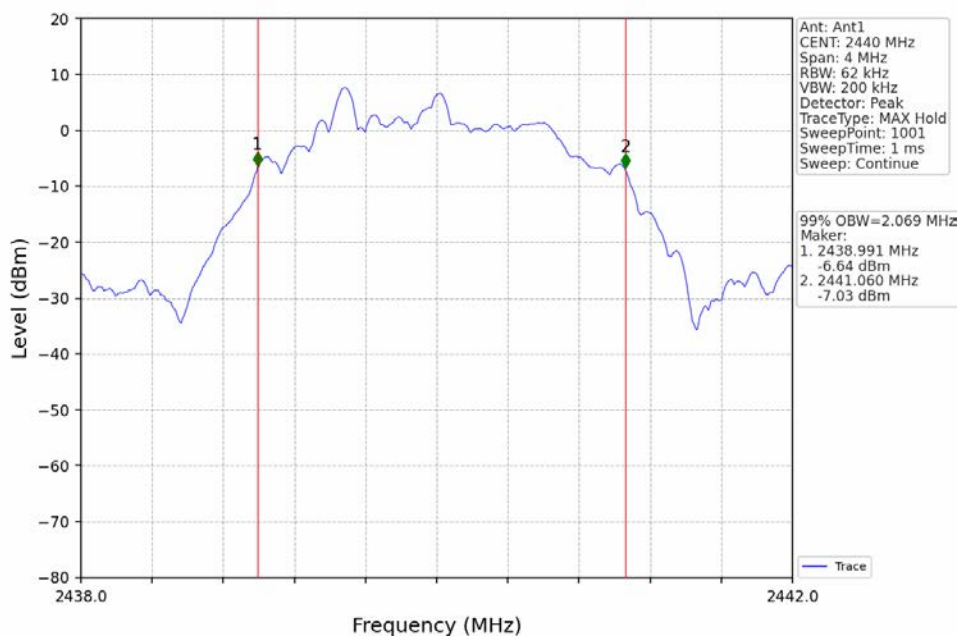
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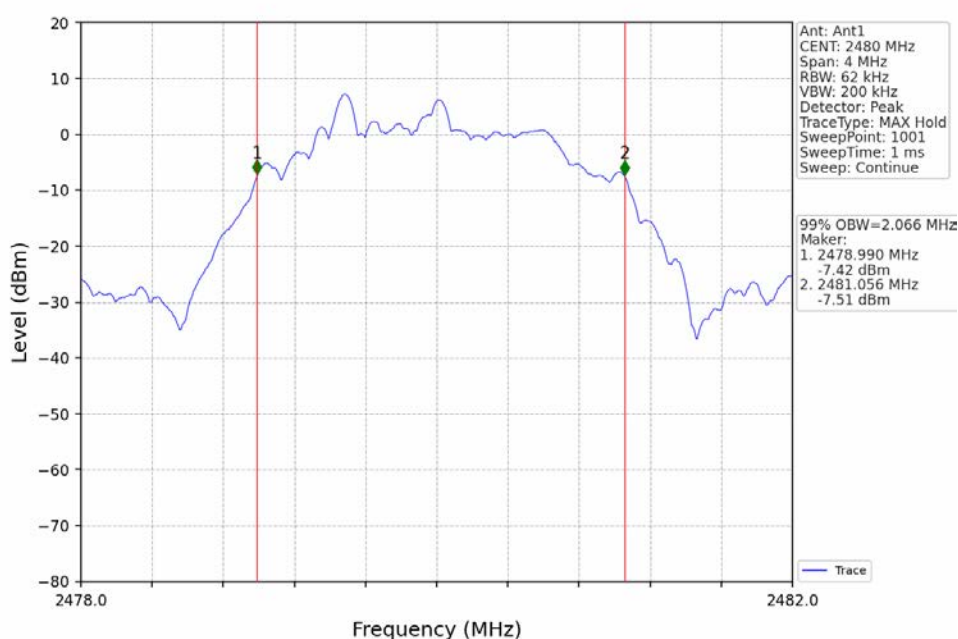
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2M_MCH_2440MHz_Ant1_NTNV



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	0.719	≥ 0.5	Pass
		2440	1	0.712	≥ 0.5	Pass
		2480	1	0.704	≥ 0.5	Pass
2M	SISO	2402	1	1.260	≥ 0.5	Pass
		2440	1	1.261	≥ 0.5	Pass
		2480	1	1.258	≥ 0.5	Pass



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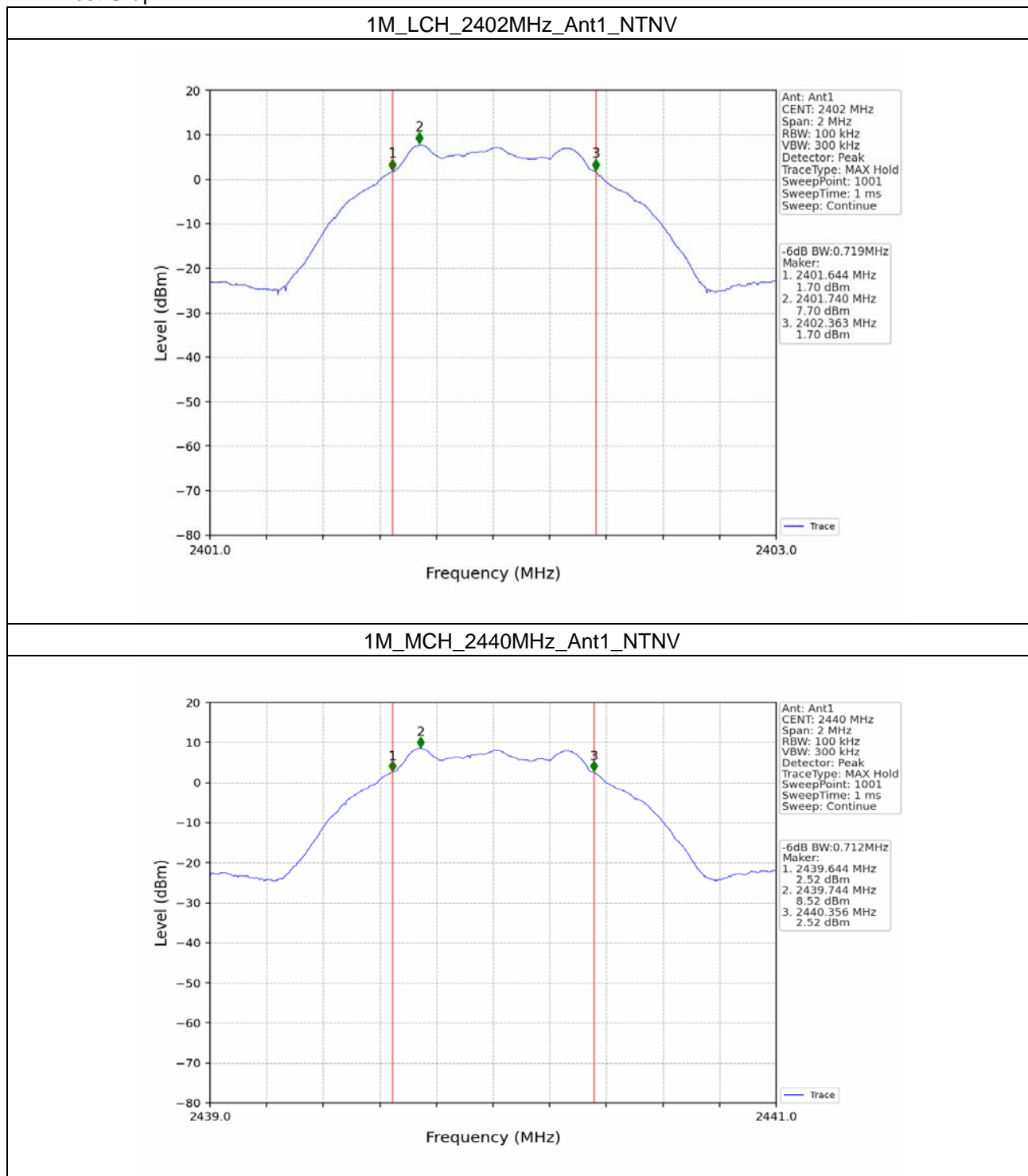
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2.2.2 Test Graph



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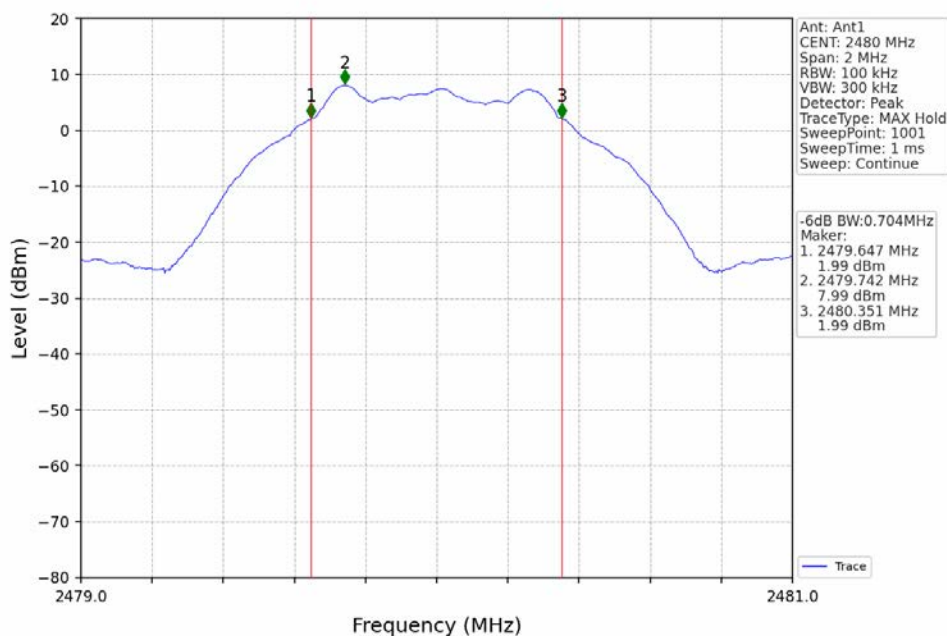
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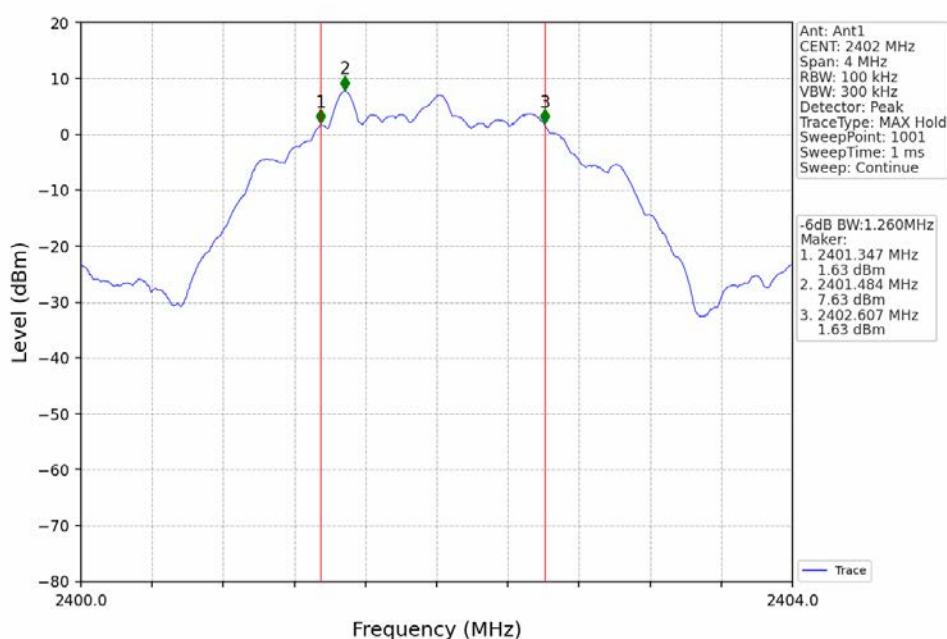
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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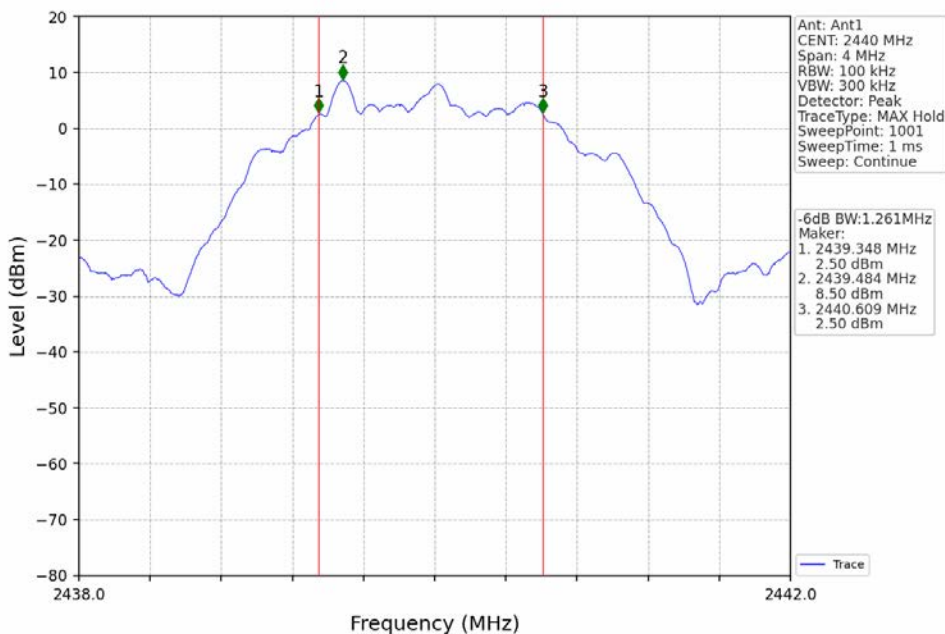
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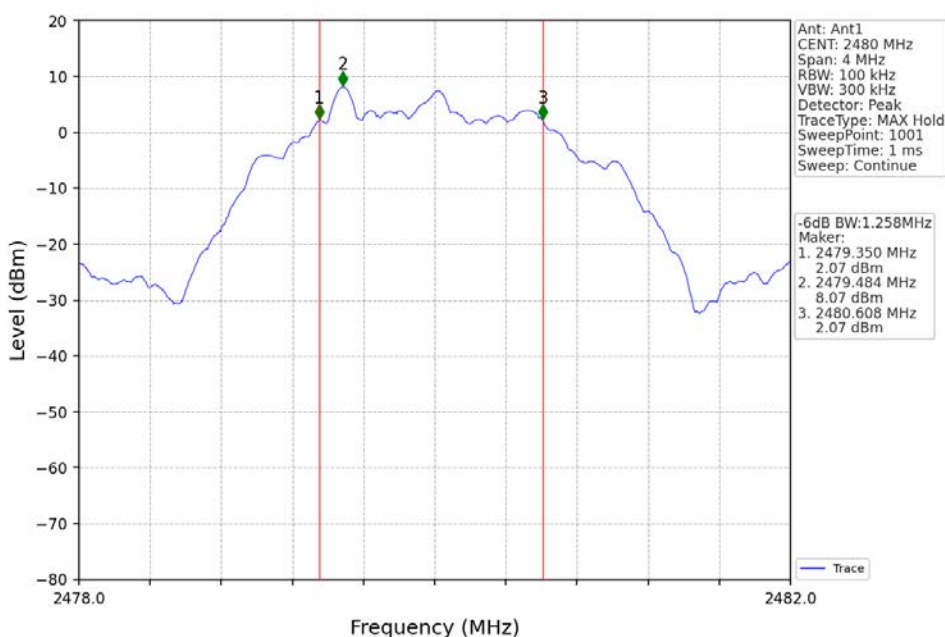
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3. Maximum Conducted Output Power

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	7.84	<=30	Pass
		2440	8.70	<=30	Pass
		2480	8.12	<=30	Pass
2M	SISO	2402	7.87	<=30	Pass
		2440	8.77	<=30	Pass
		2480	8.24	<=30	Pass

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	-7.81	<=8	Pass
		2440	-6.96	<=8	Pass
		2480	-7.46	<=8	Pass
2M	SISO	2402	-11.32	<=8	Pass
		2440	-10.40	<=8	Pass
		2480	-11.01	<=8	Pass



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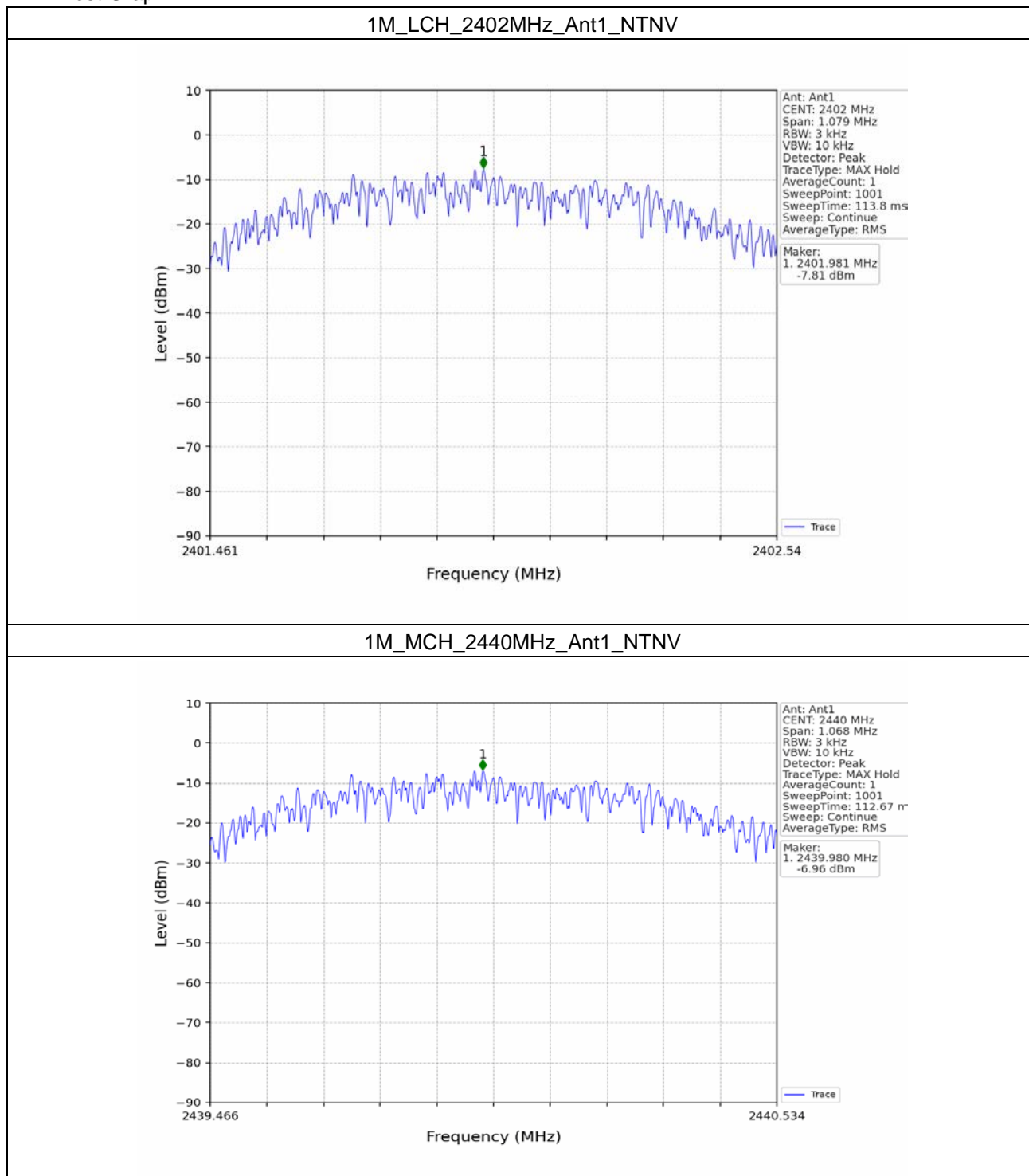
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4.1.2 Test Graph



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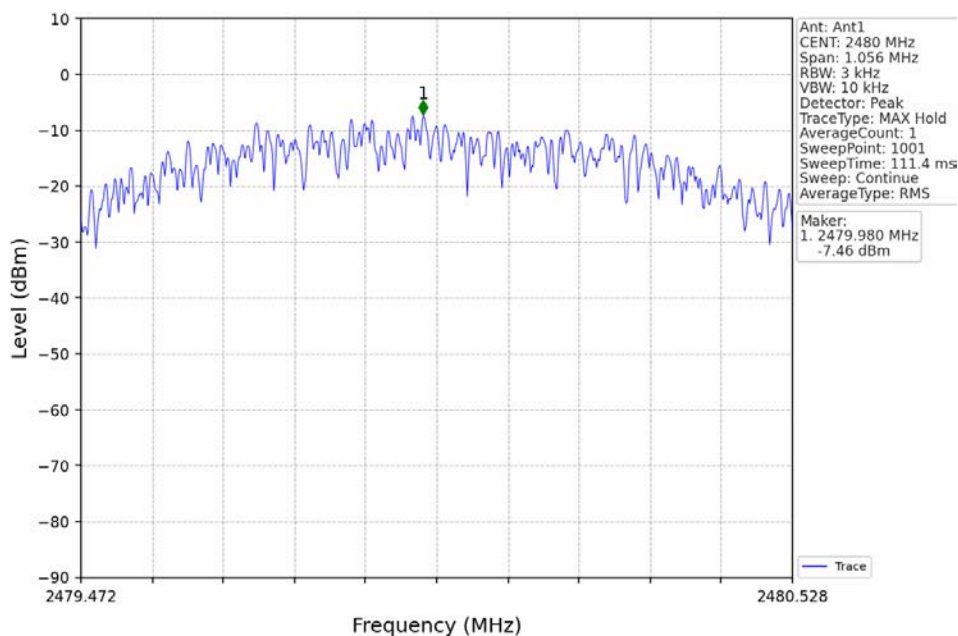
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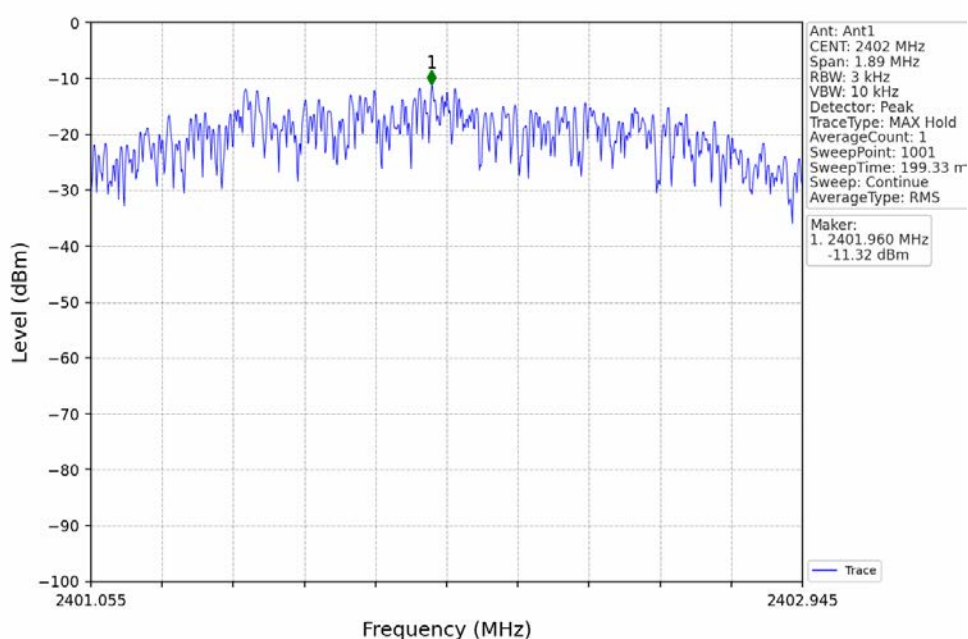
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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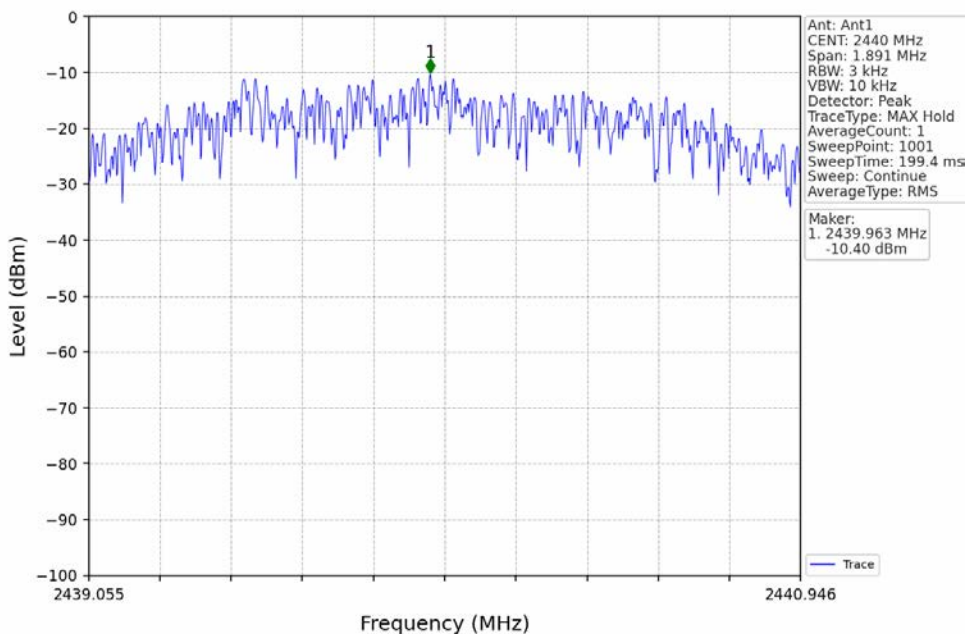
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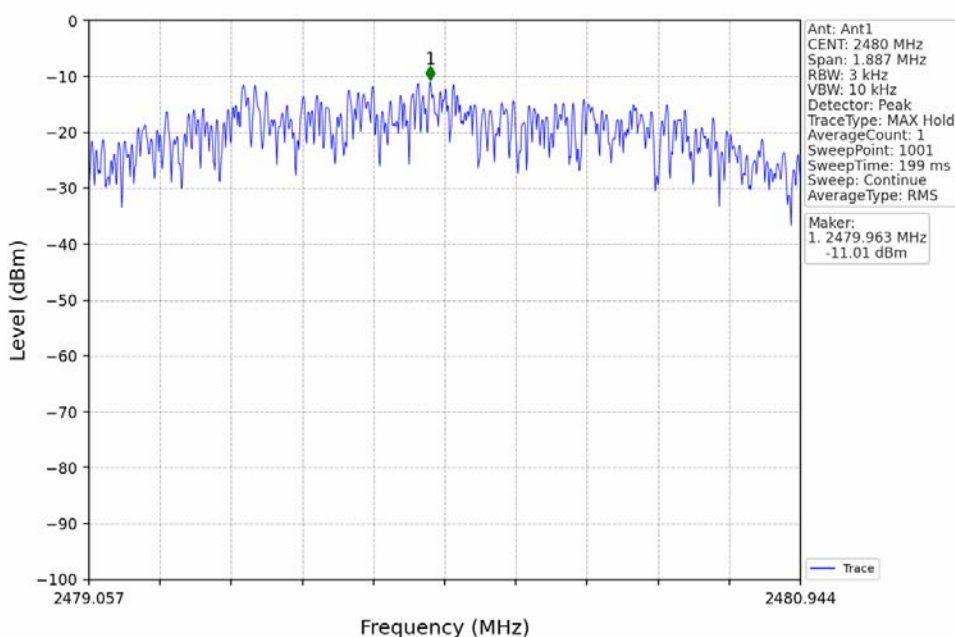
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2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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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	7.70
		2440	1	8.53
		2480	1	8.00
2M	SISO	2402	1	7.63
		2440	1	8.47
		2480	1	8.05



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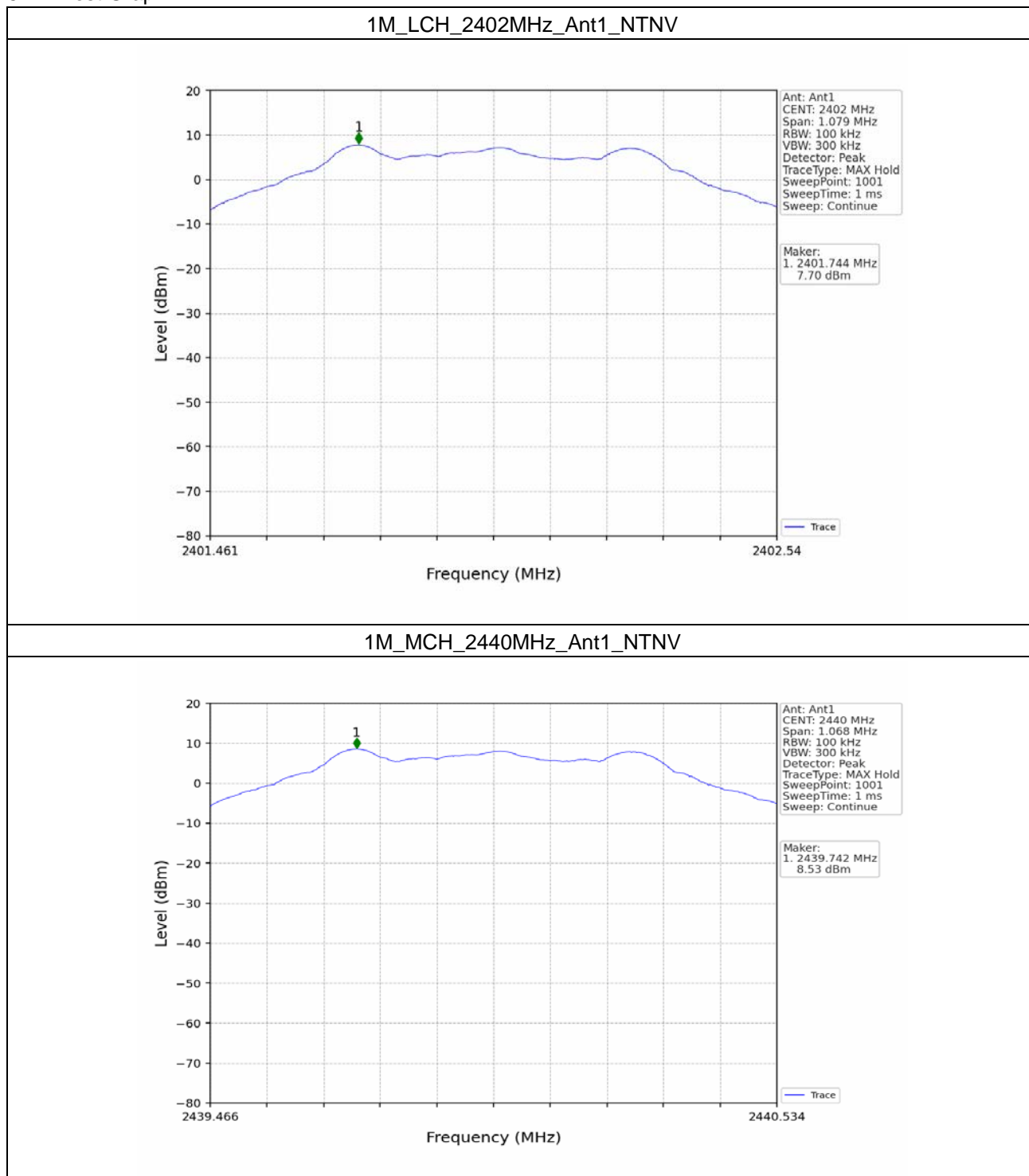
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5.1.2 Test Graph



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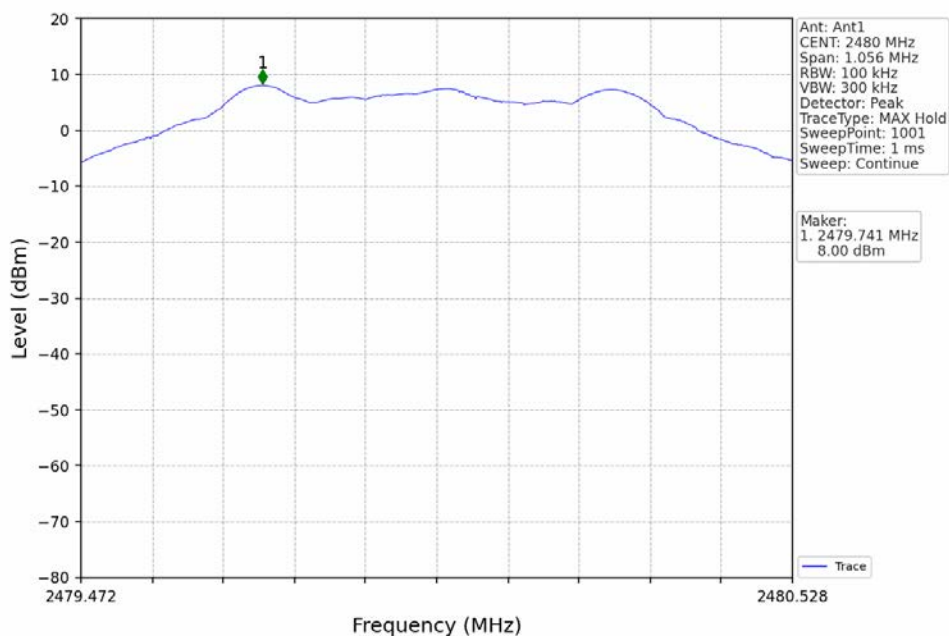
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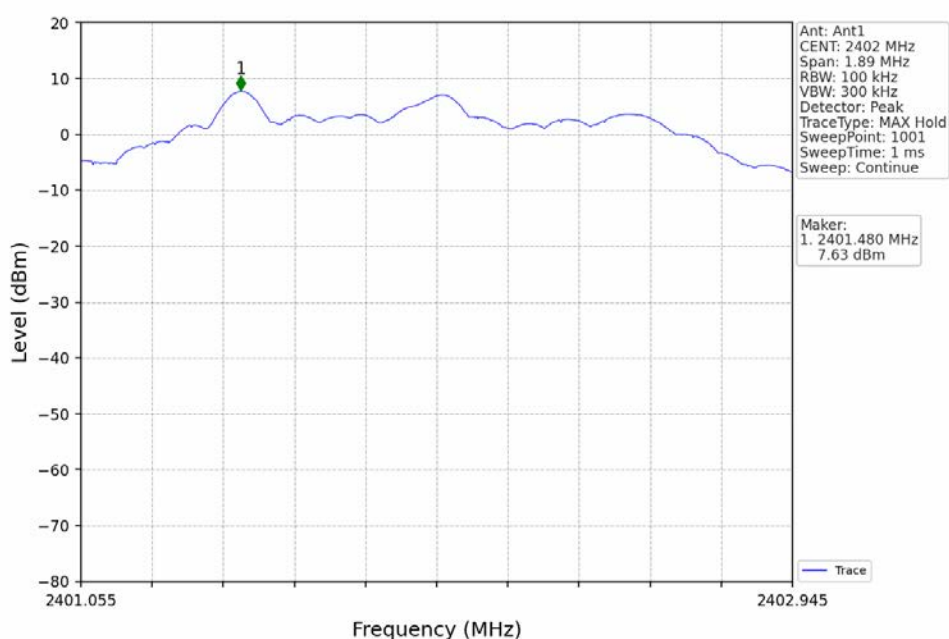
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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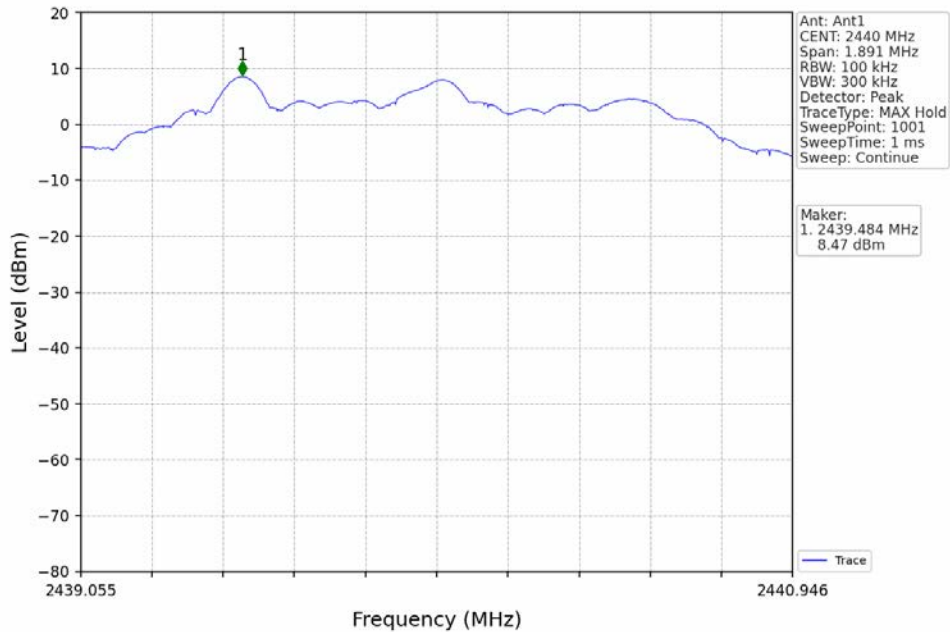
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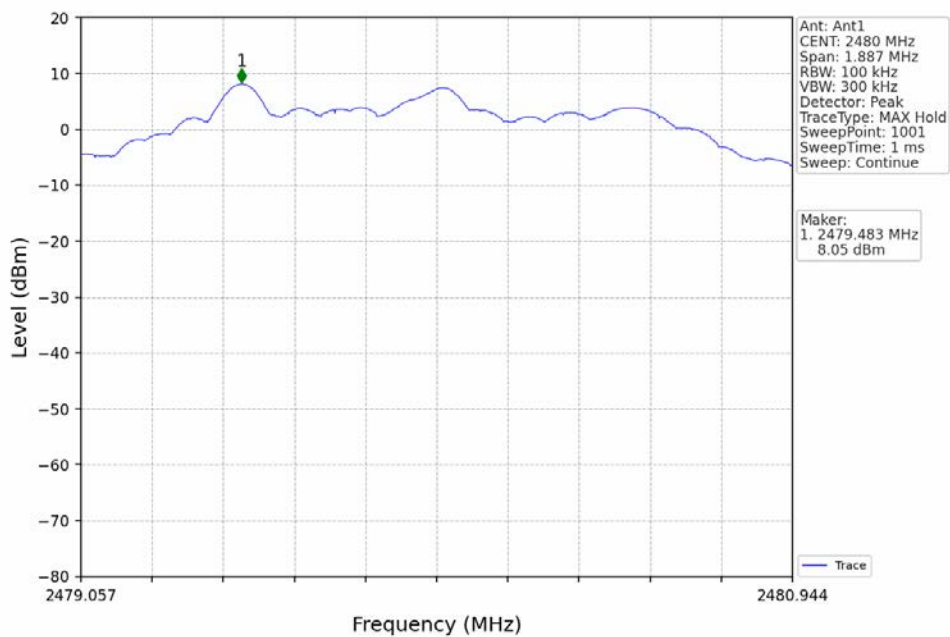
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