



Appendix B

RF Test Data for BT LE(Conducted Measurement)

Product Name: Electric Scooter for Kids

Test Model: S4

Environmental Conditions

Temperature:	24.9° C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Nick Peng



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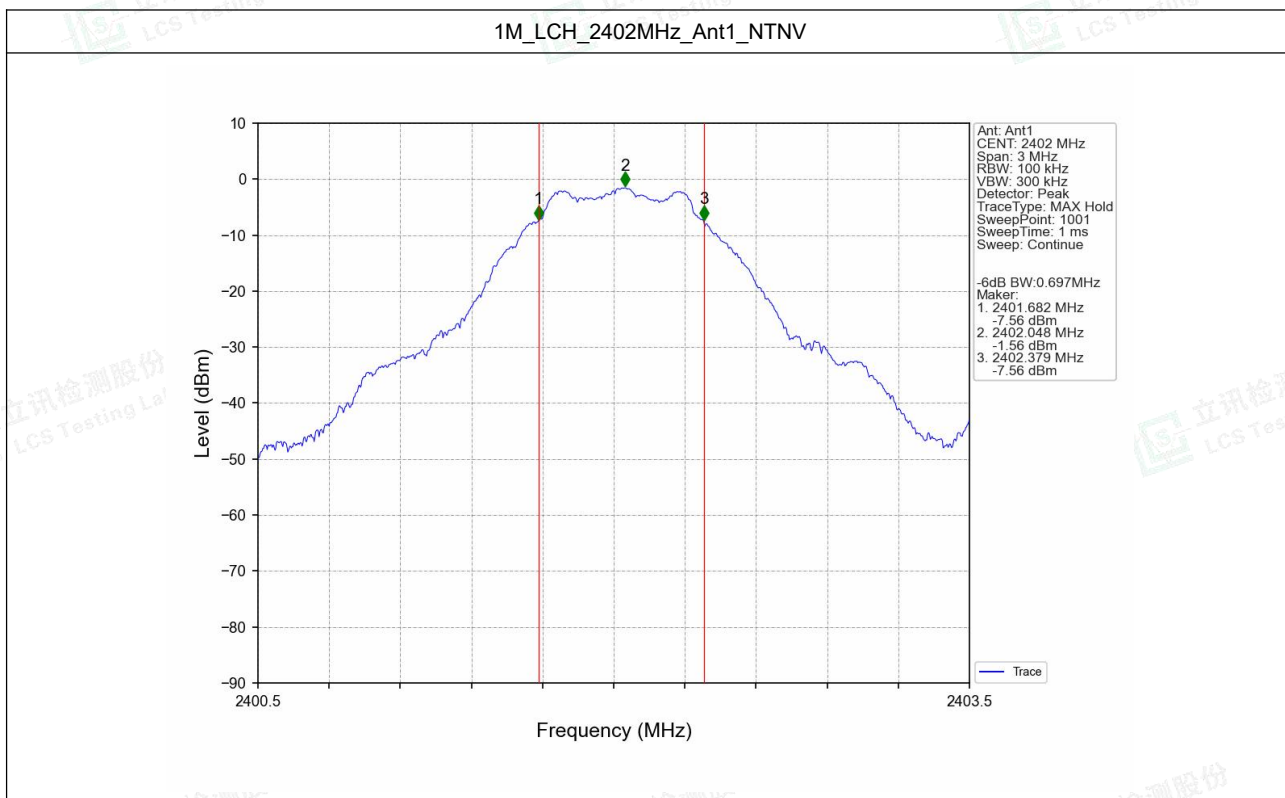
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B.1 -6dB Bandwidth

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.697	≥ 0.5	Pass
		2440	1	0.727	≥ 0.5	Pass
		2480	1	0.704	≥ 0.5	Pass
2M	SISO	2402	1	1.194	≥ 0.5	Pass
		2440	1	1.256	≥ 0.5	Pass
		2480	1	1.219	≥ 0.5	Pass



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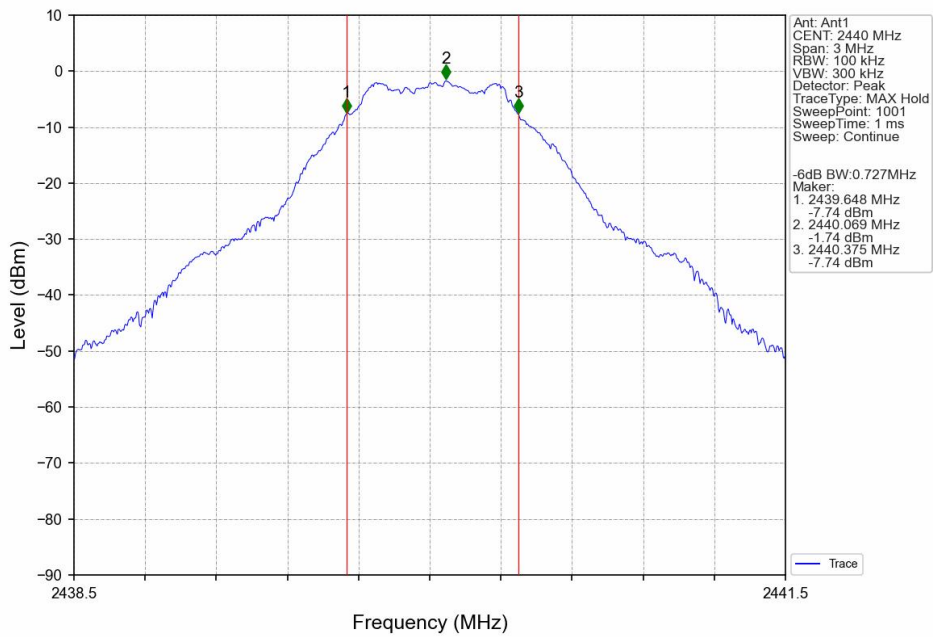
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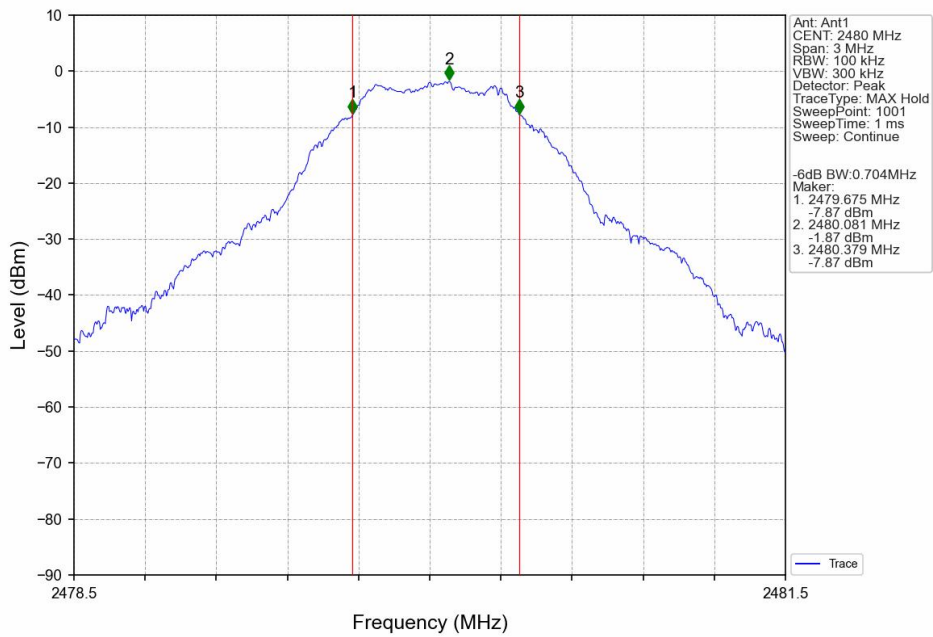


1M_MCH_2440MHz_Ant1_NTNV

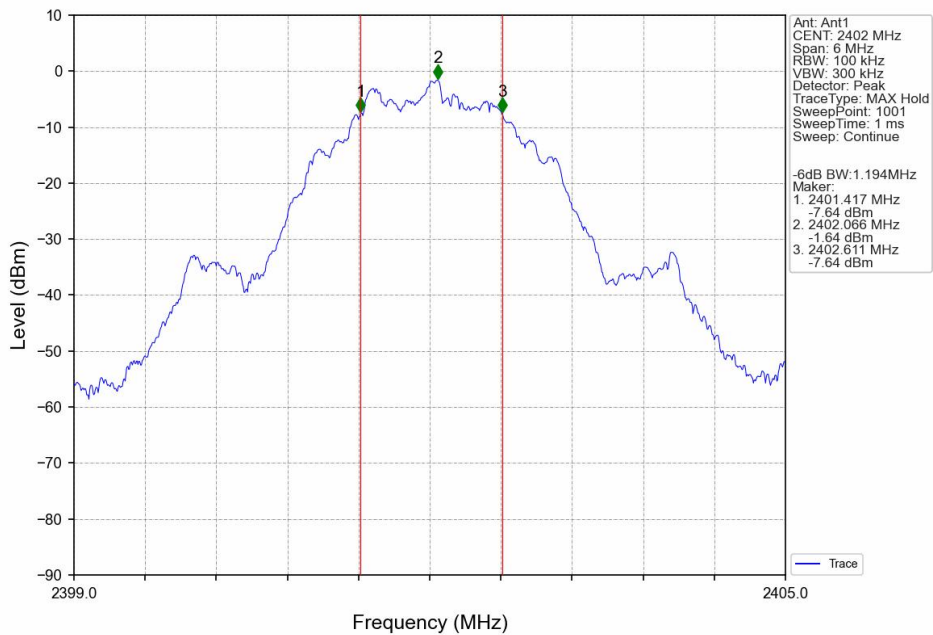




1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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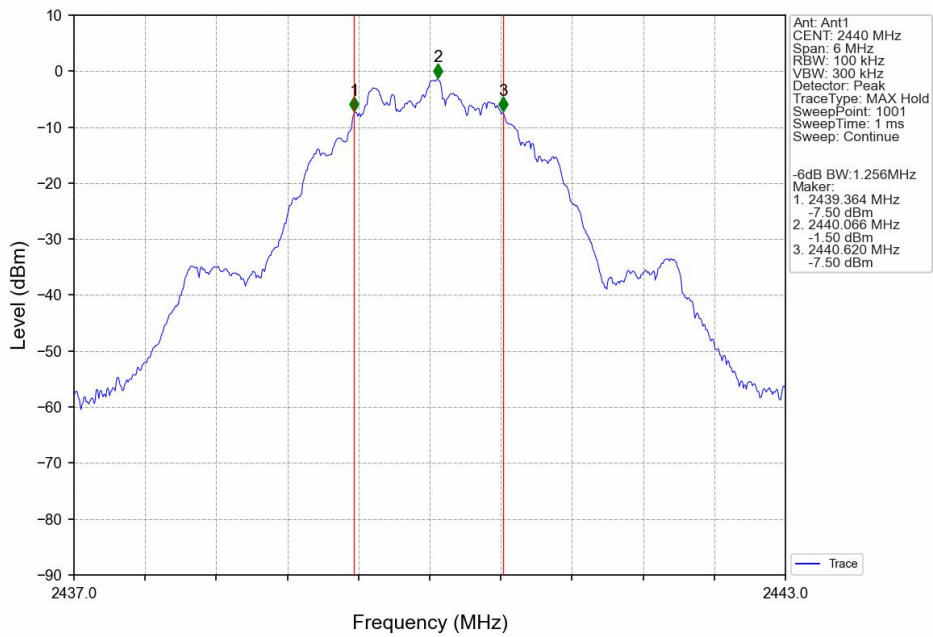
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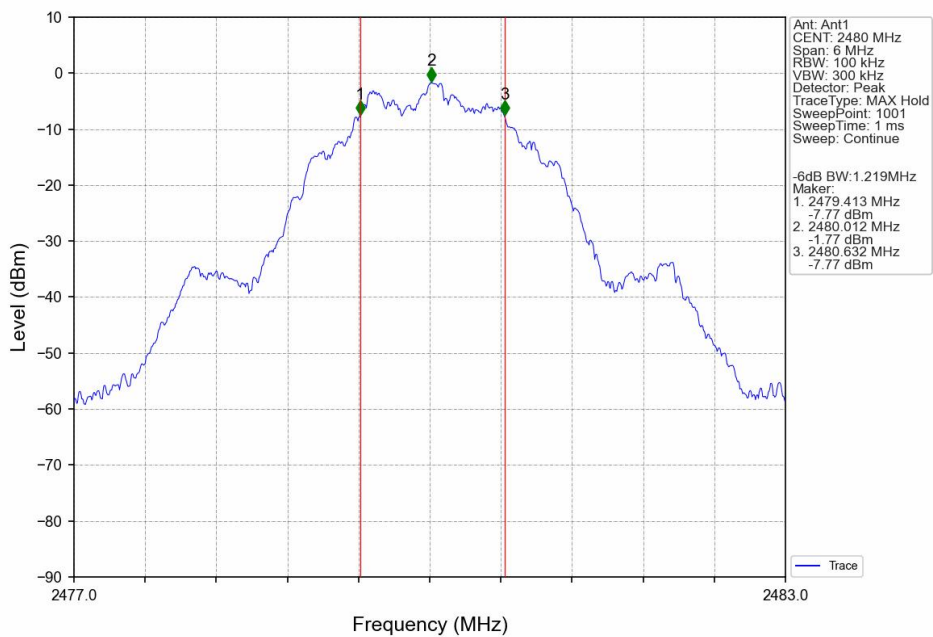
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2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV

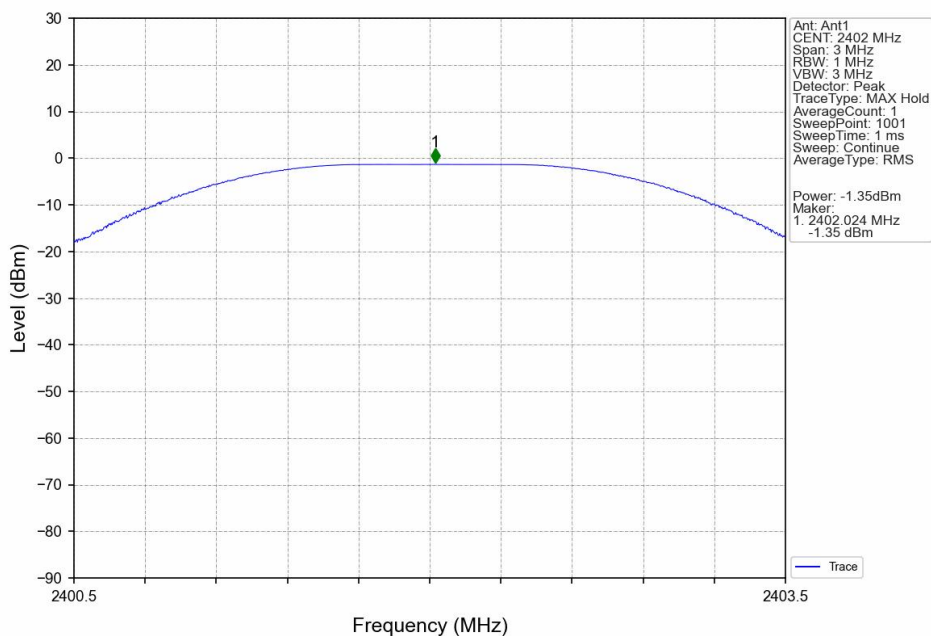




B.2 Maximum Peak Conducted Output Power

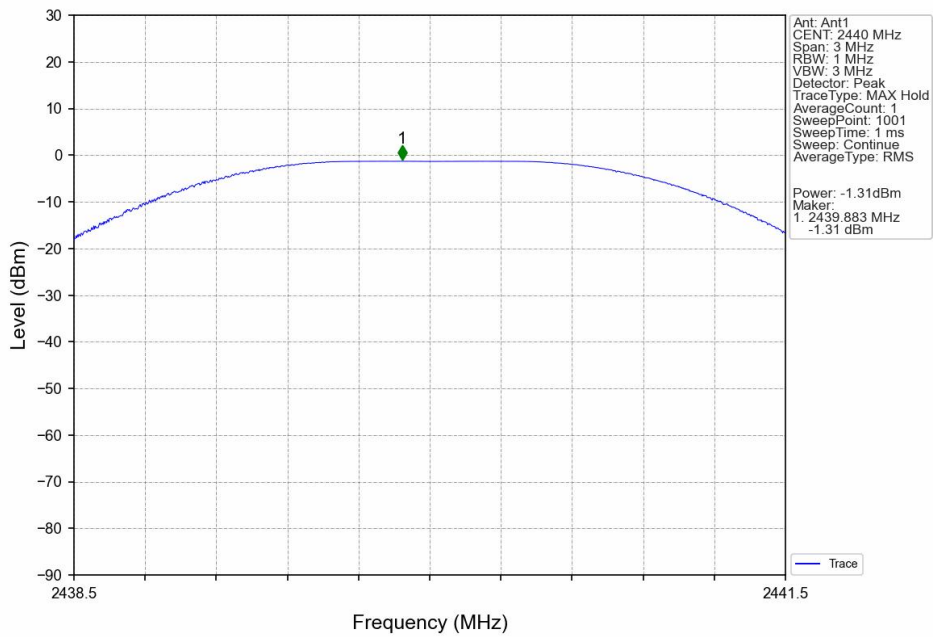
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-1.35	<=30	Pass
		2440	-1.31	<=30	Pass
		2480	-1.50	<=30	Pass
2M	SISO	2402	-1.28	<=30	Pass
		2440	-1.20	<=30	Pass
		2480	-1.38	<=30	Pass

1M_LCH_2402MHz_Ant1_NTNV





1M_MCH_2440MHz_Ant1_NTNV



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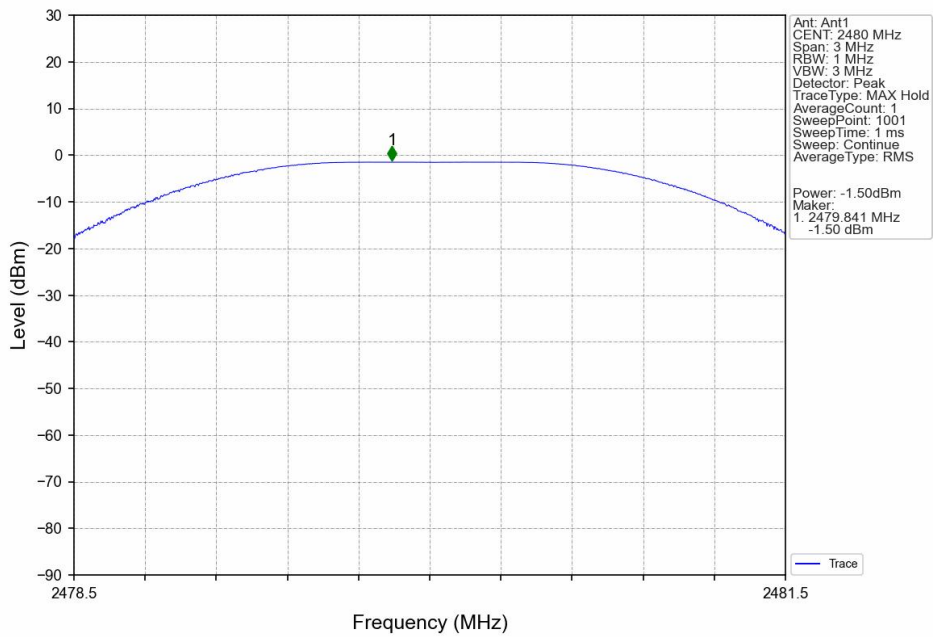
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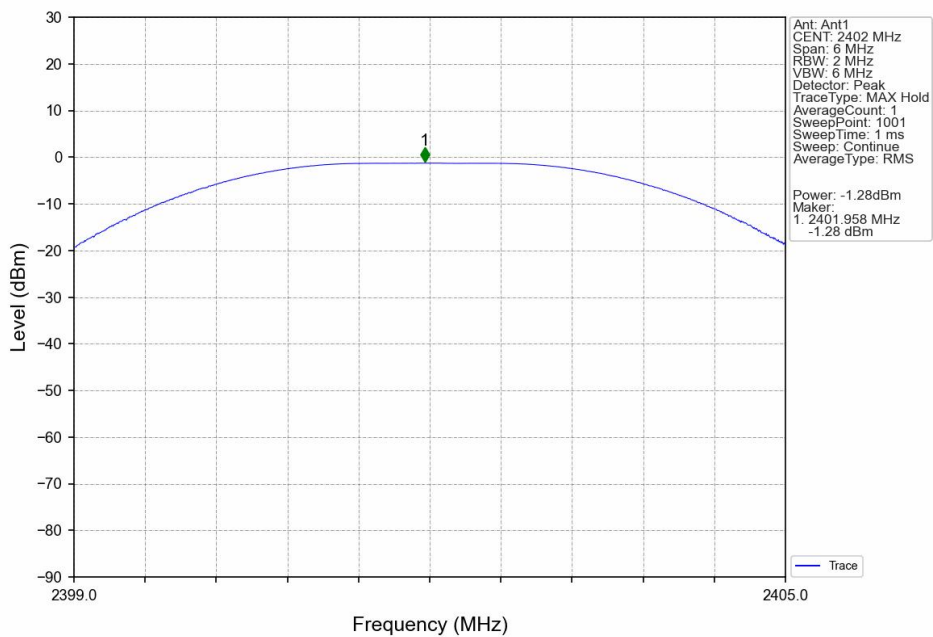
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1M_HCH_2480MHz_Ant1_NTNV

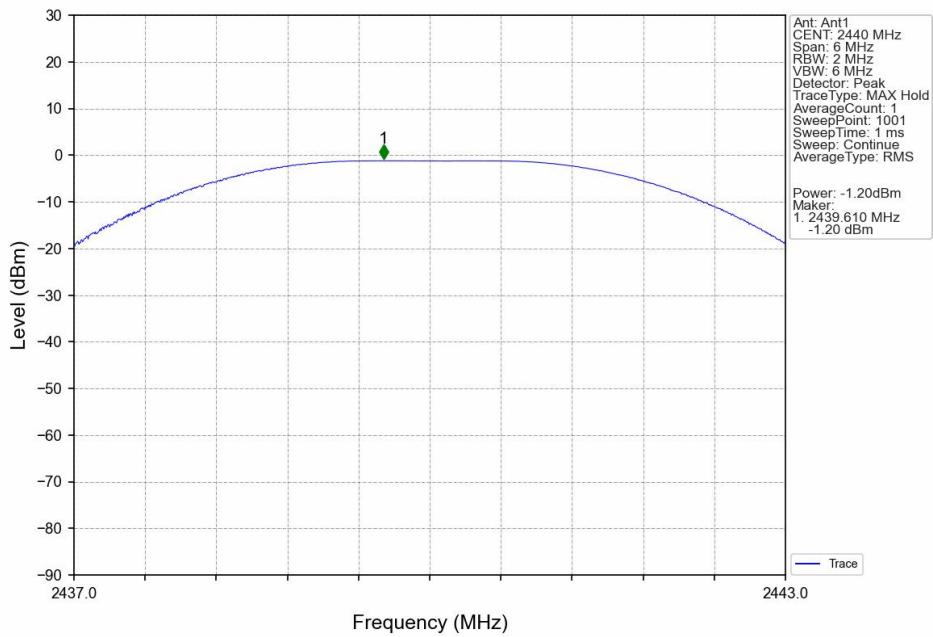


2M_LCH_2402MHz_Ant1_NTNV

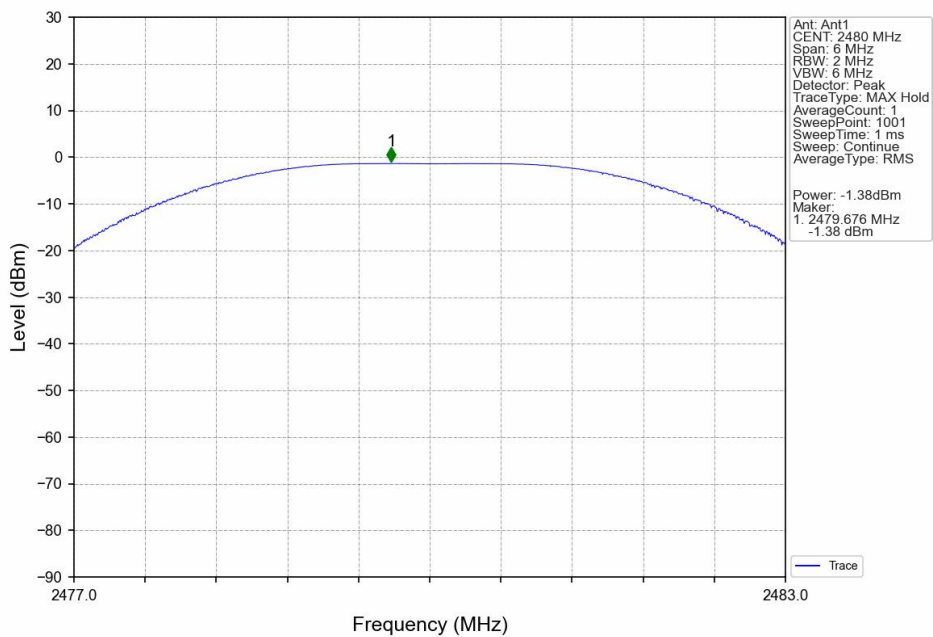




2M_MCH_2440MHz_Ant1_NTNV



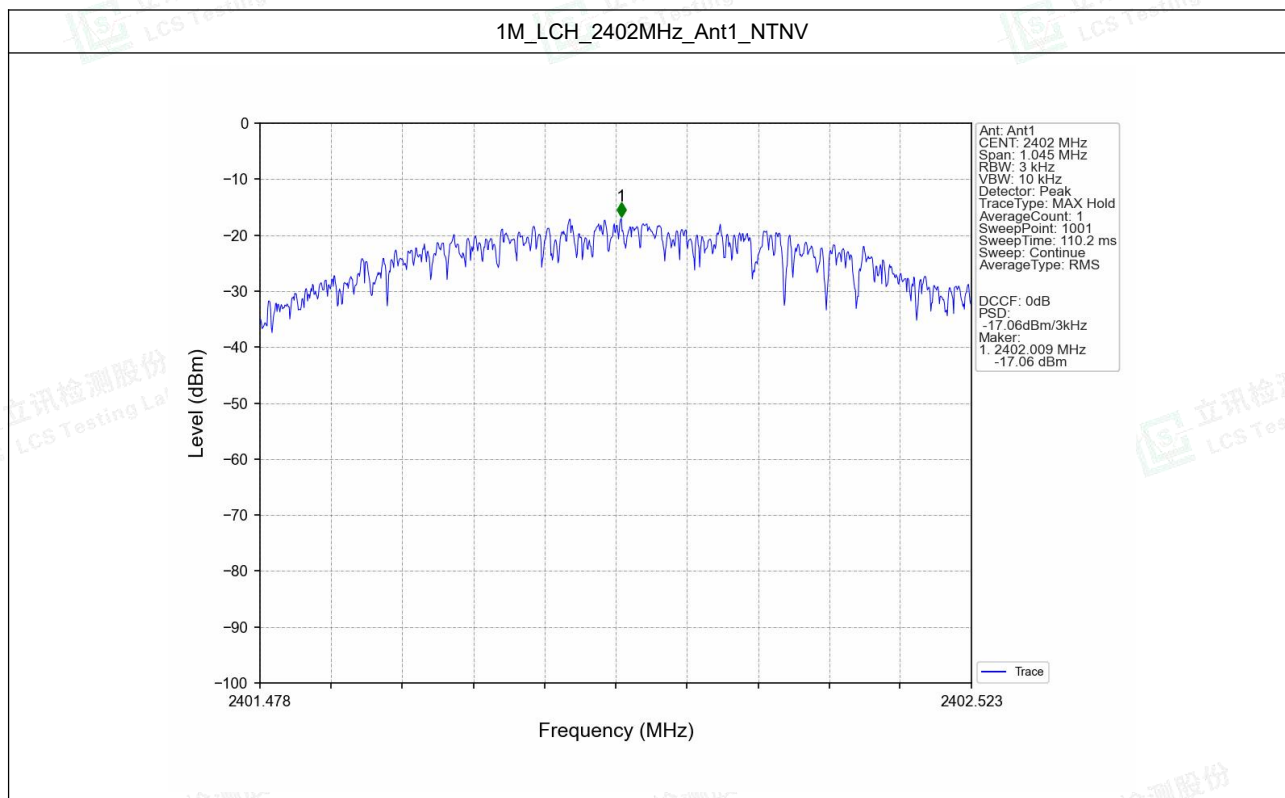
2M_HCH_2480MHz_Ant1_NTNV





B.3 Maximum Power Spectral Density Level

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-17.06	<=8	Pass
		2440	-17.19	<=8	Pass
		2480	-15.94	<=8	Pass
2M	SISO	2402	-19.58	<=8	Pass
		2440	-19.28	<=8	Pass
		2480	-20.14	<=8	Pass



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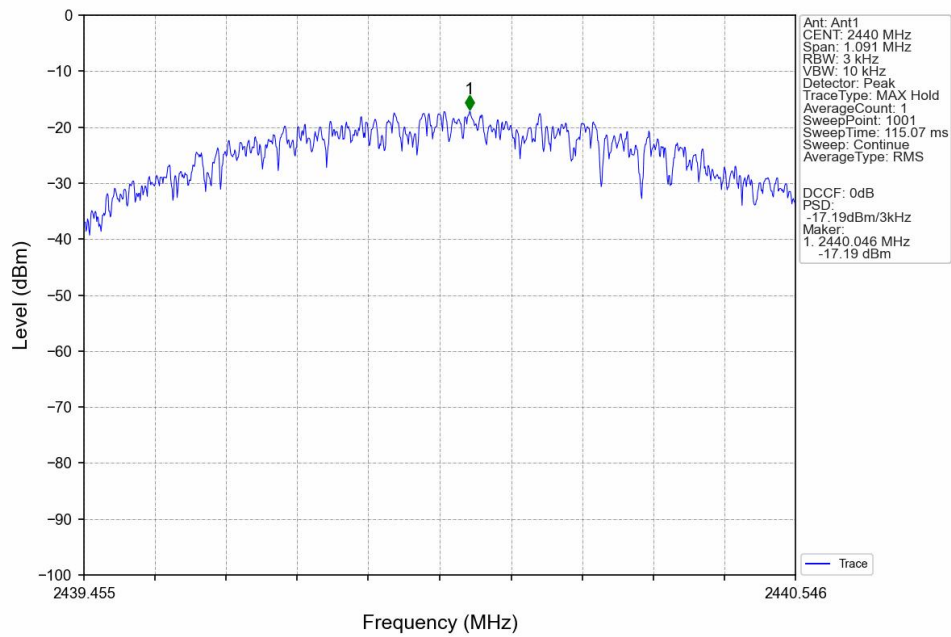
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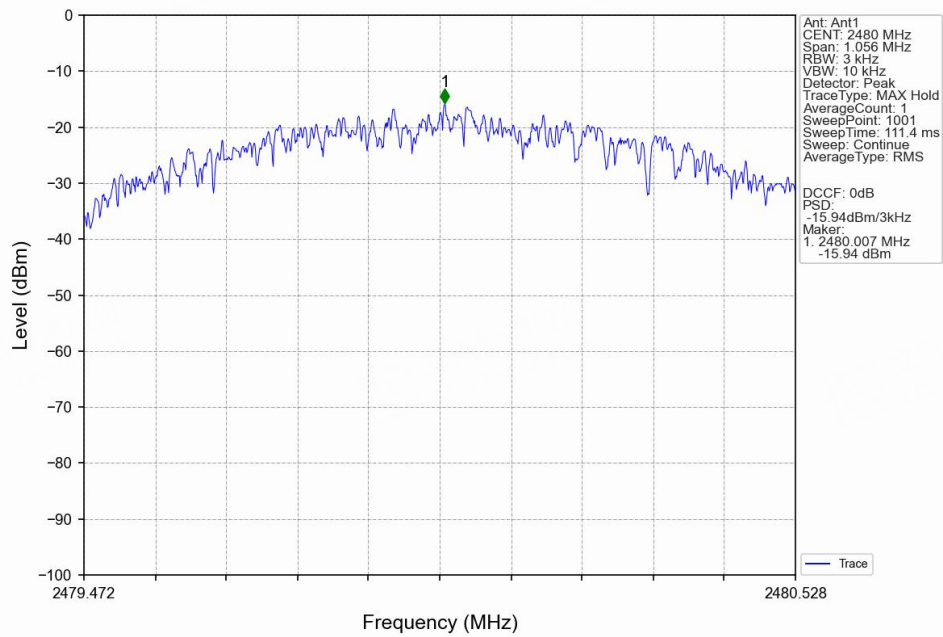


1M_MCH_2440MHz_Ant1_NTNV

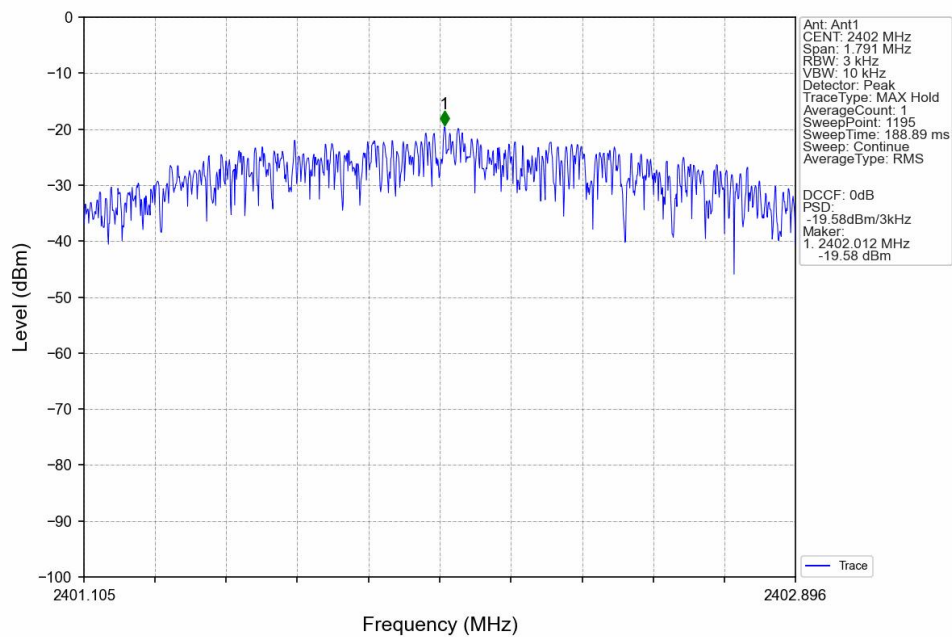




1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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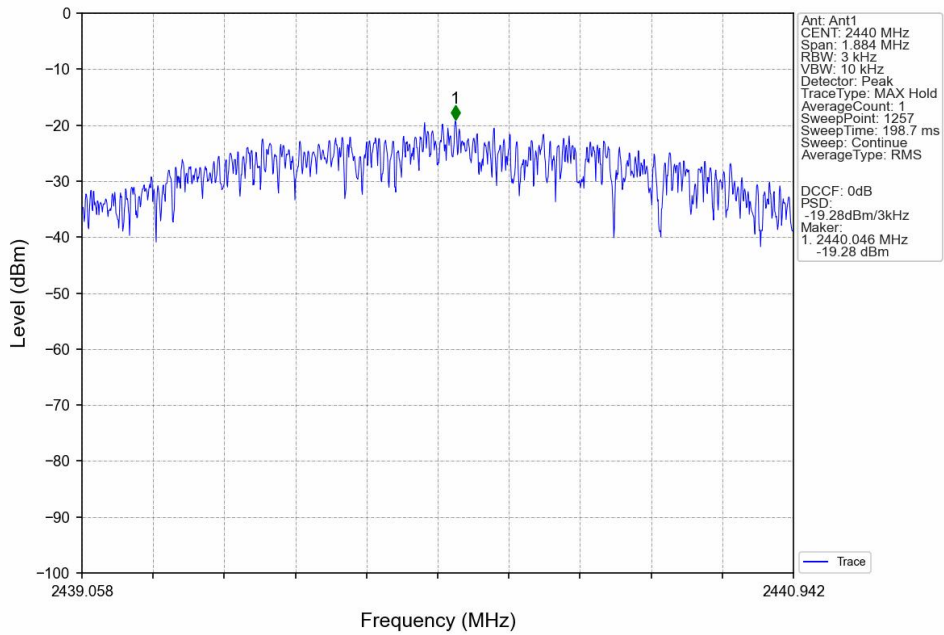
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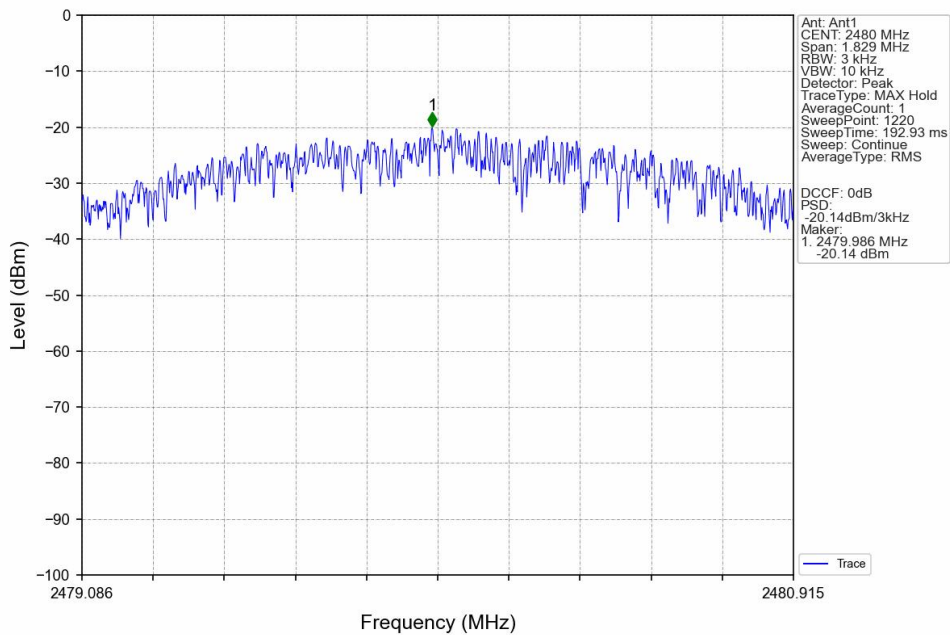
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2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV

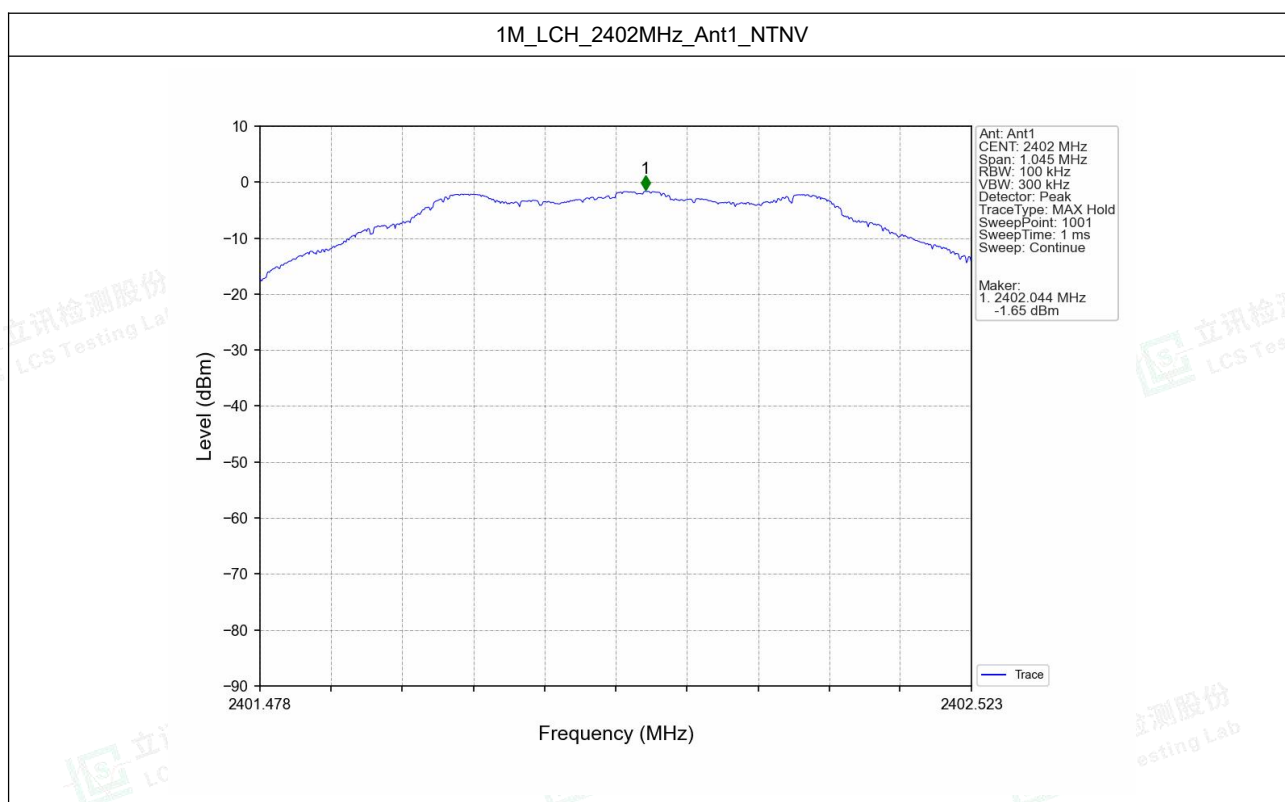




B.4 Band Edge

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-1.65	-21.65	Pass
		2440	1	-1.65	-21.65	Pass
		2480	1	-1.65	-21.65	Pass
2M	SISO	2402	1	-1.64	-21.64	Pass
		2440	1	-1.64	-21.64	Pass
		2480	1	-1.64	-21.64	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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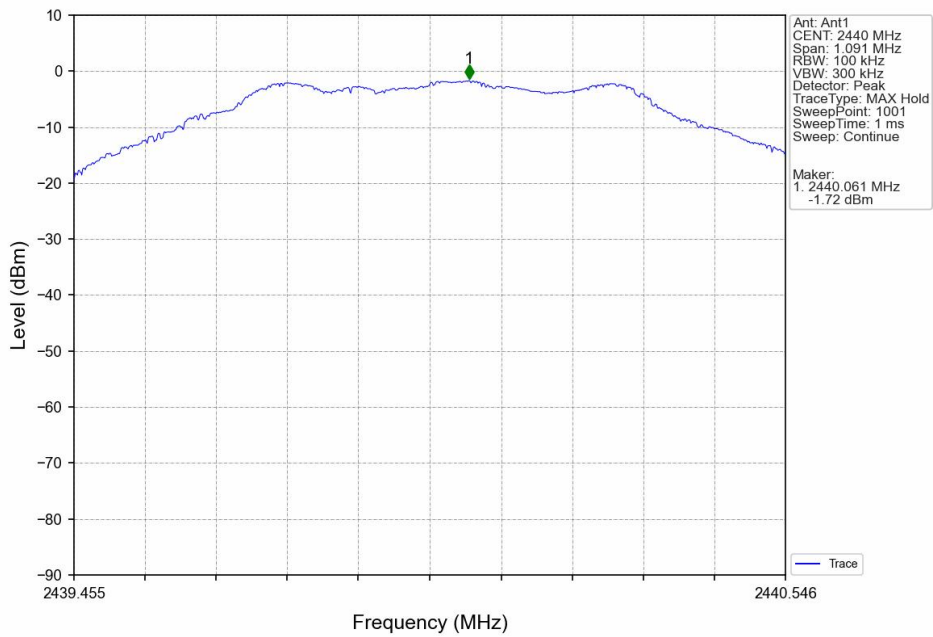
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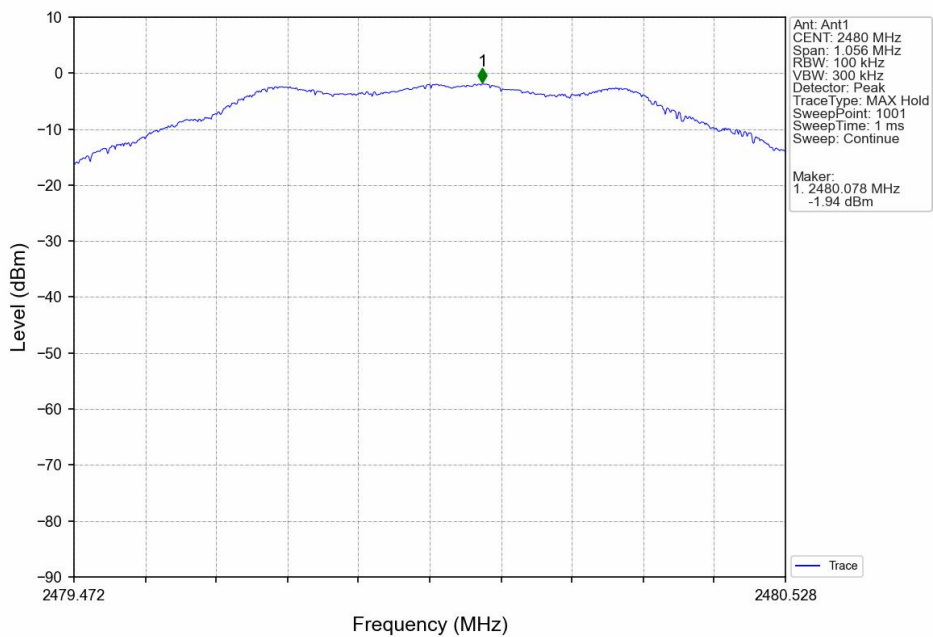
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1M_MCH_2440MHz_Ant1_NTNV

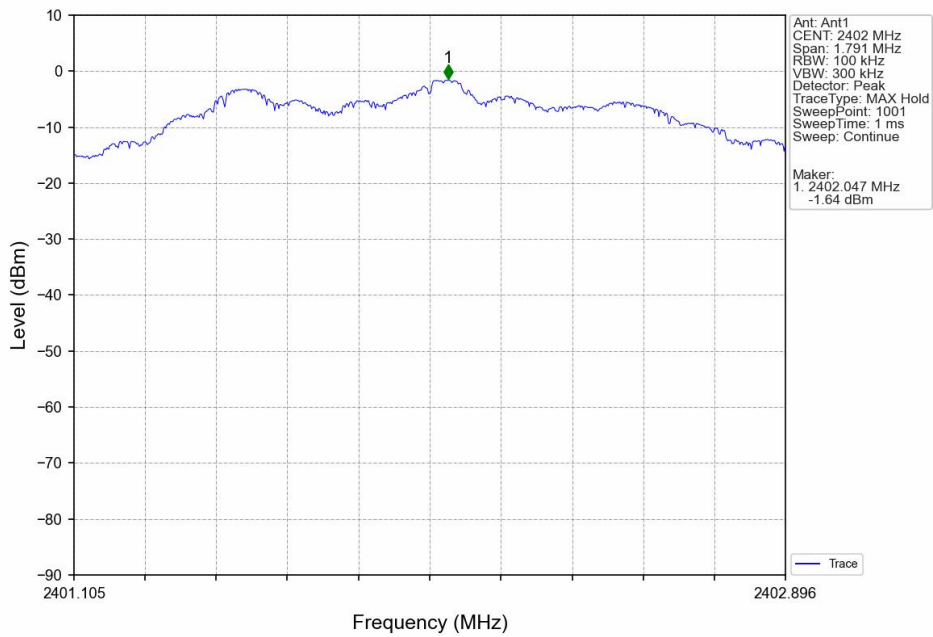


1M_HCH_2480MHz_Ant1_NTNV

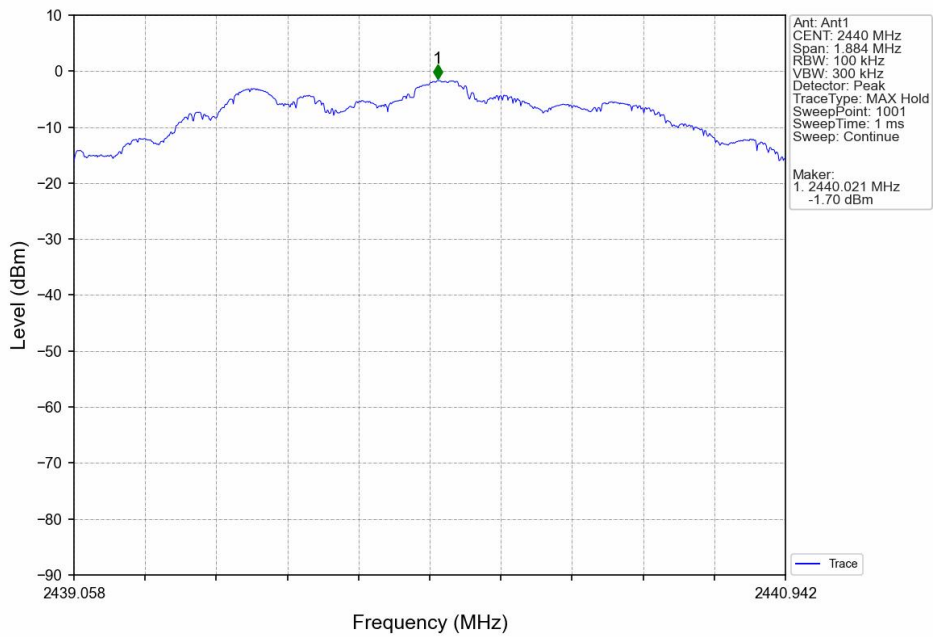




2M_LCH_2402MHz_Ant1_NTNV

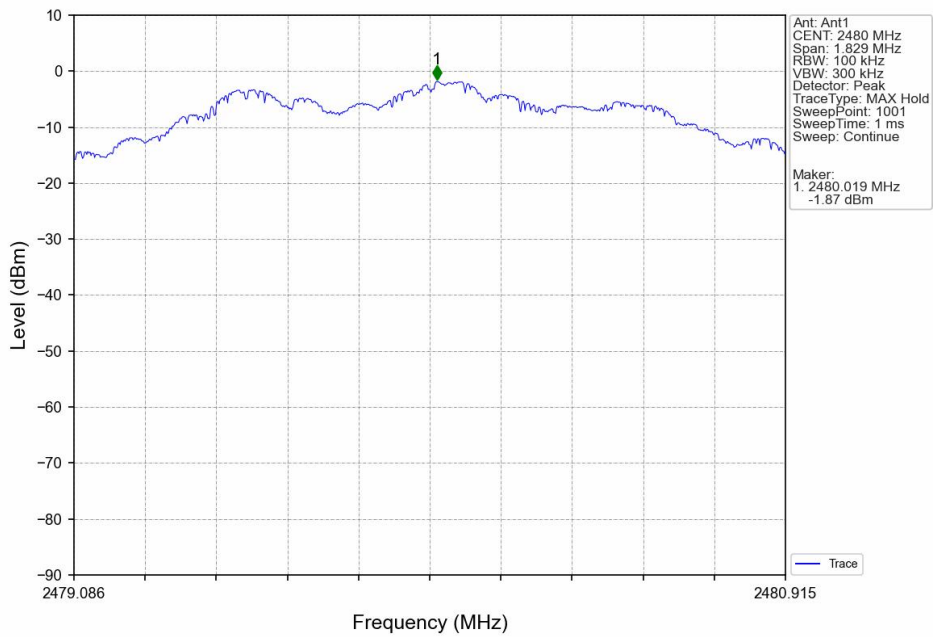


2M_MCH_2440MHz_Ant1_NTNV

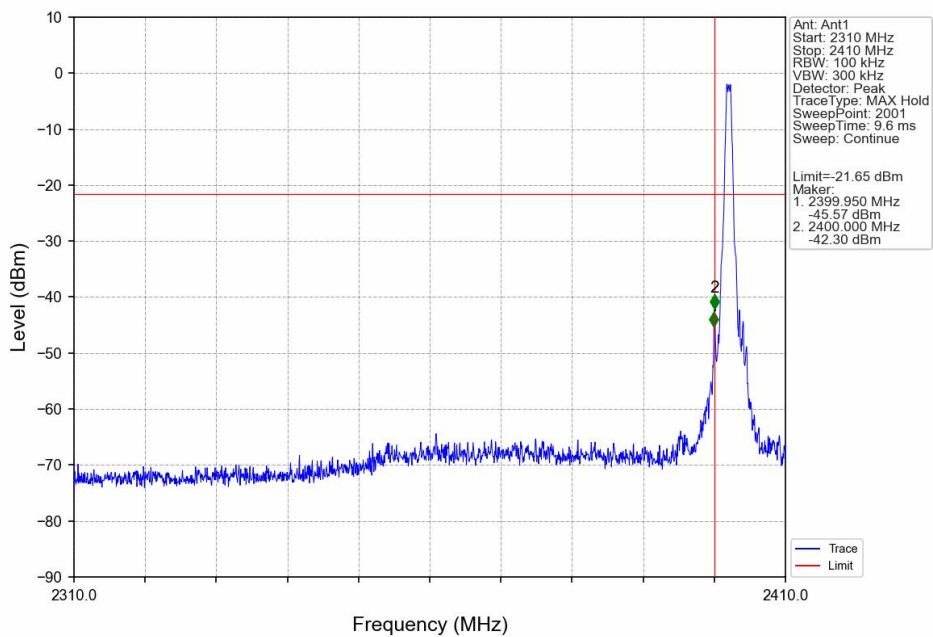




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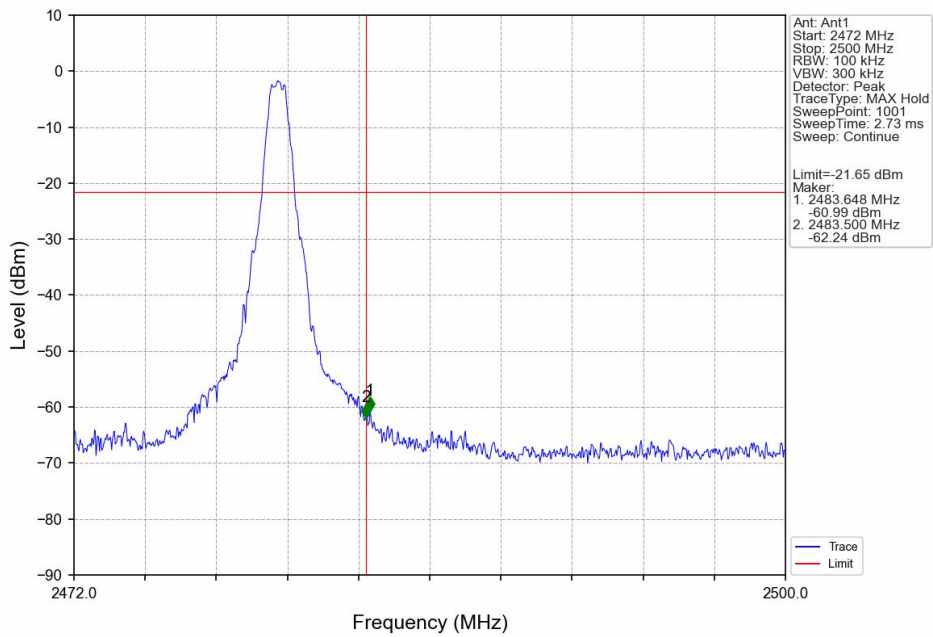


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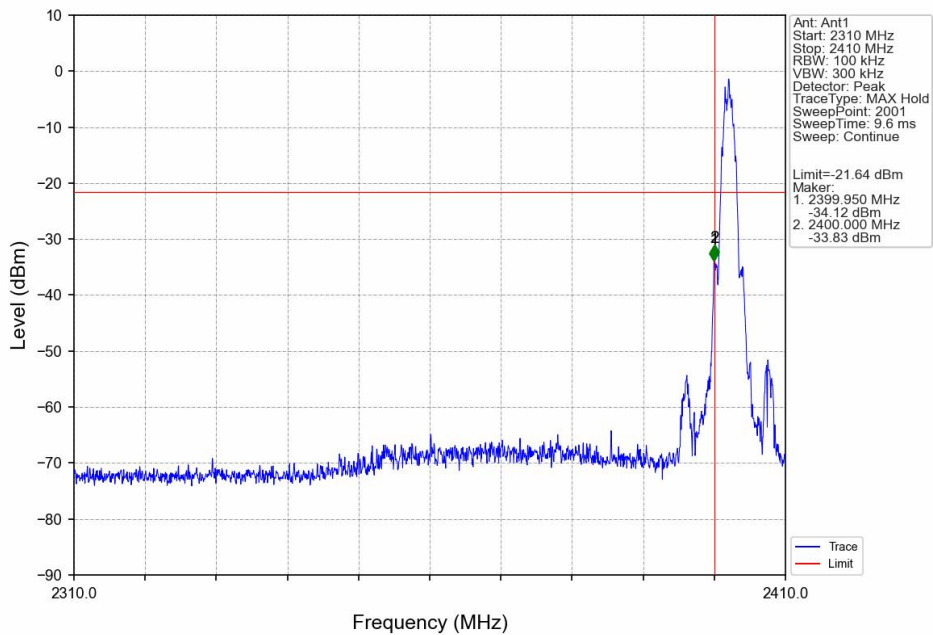




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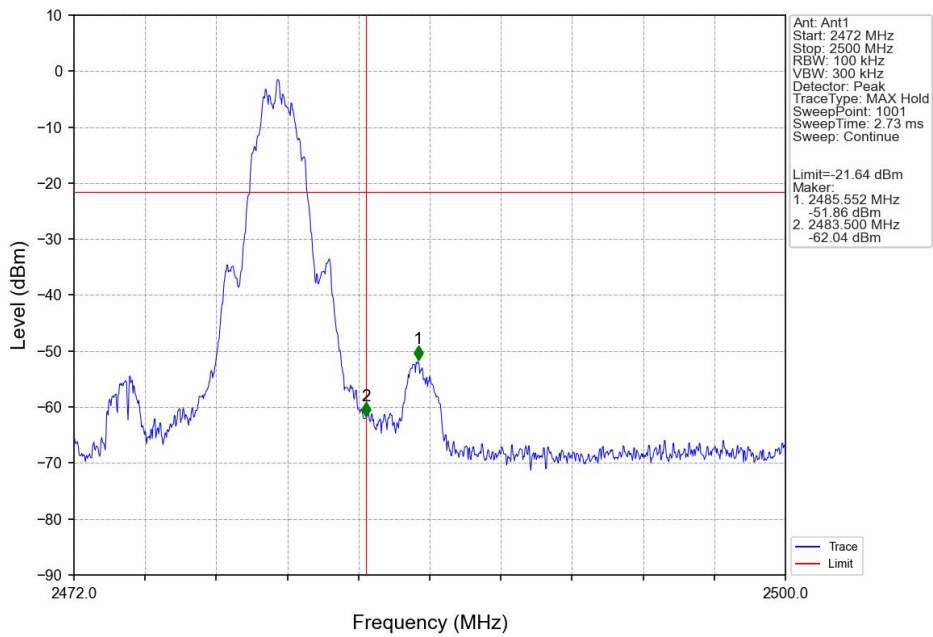


2M_LCH_2402MHz_Ant1_NTNV





2M_HCH_2480MHz_Ant1_NTNV



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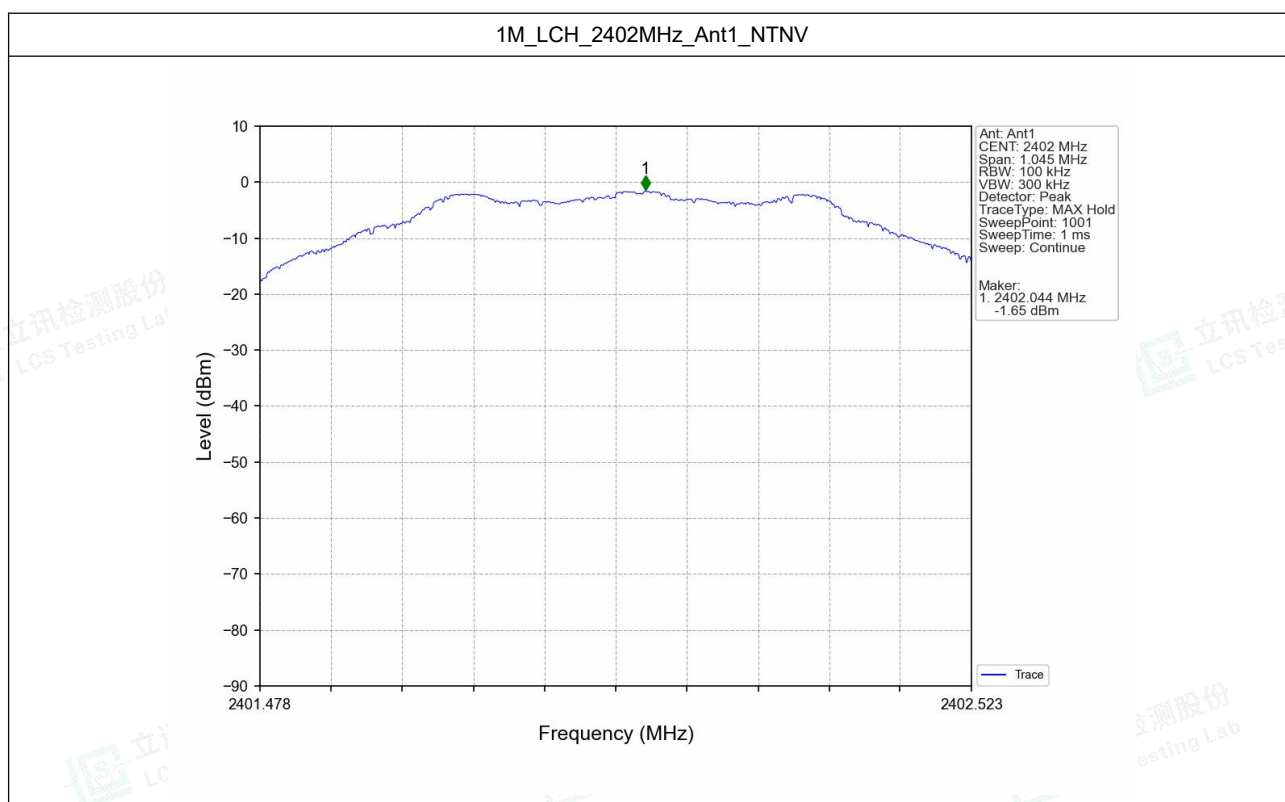
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B.5 Conducted RF Spurious Emission

Mode	TX Type	Frequency (MHz)	AN T	Level of Reference (dBm)
1M	SISO	2402	1	-1.65
		2440	1	-1.72
		2480	1	-1.94
2M	SISO	2402	1	-1.64
		2440	1	-1.70
		2480	1	-1.87

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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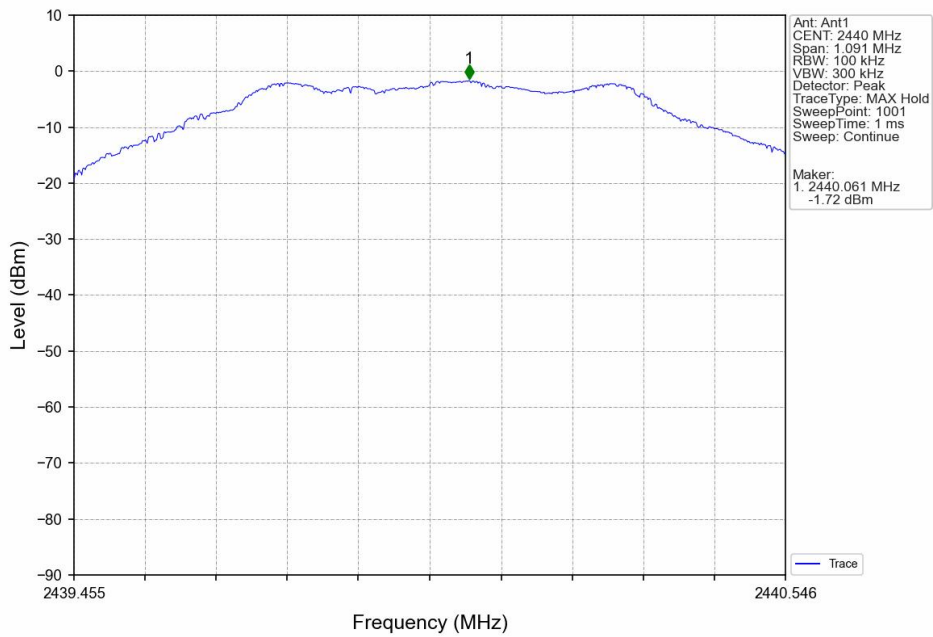
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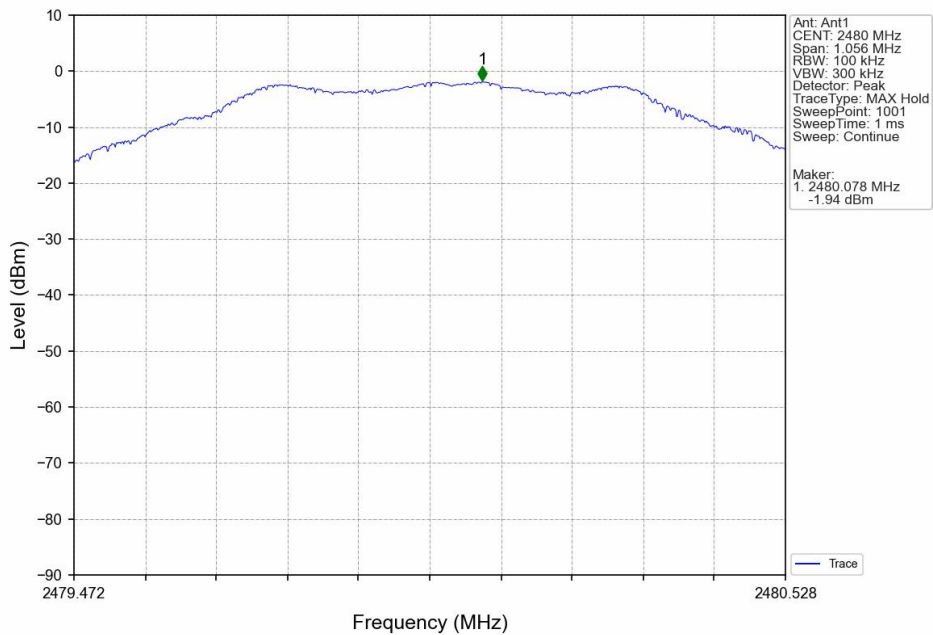
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1M_MCH_2440MHz_Ant1_NTNV

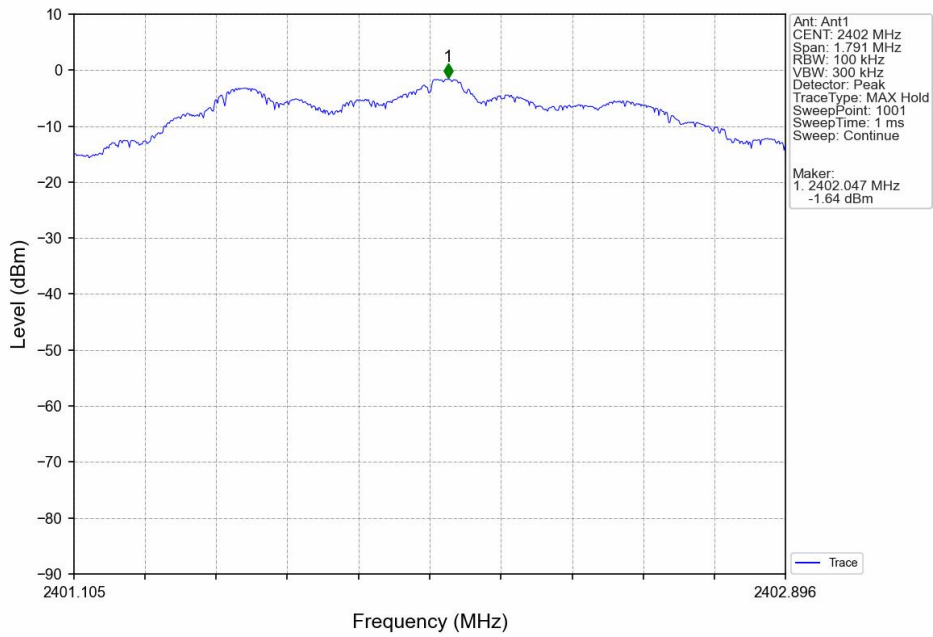


1M_HCH_2480MHz_Ant1_NTNV

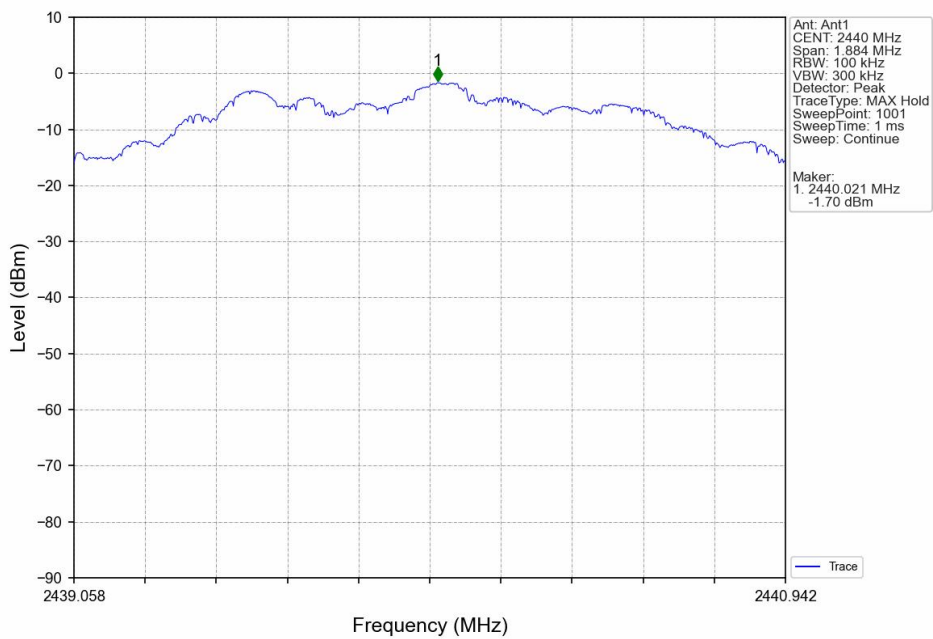


2M_LCH_2402MHz_Ant1_NTNV



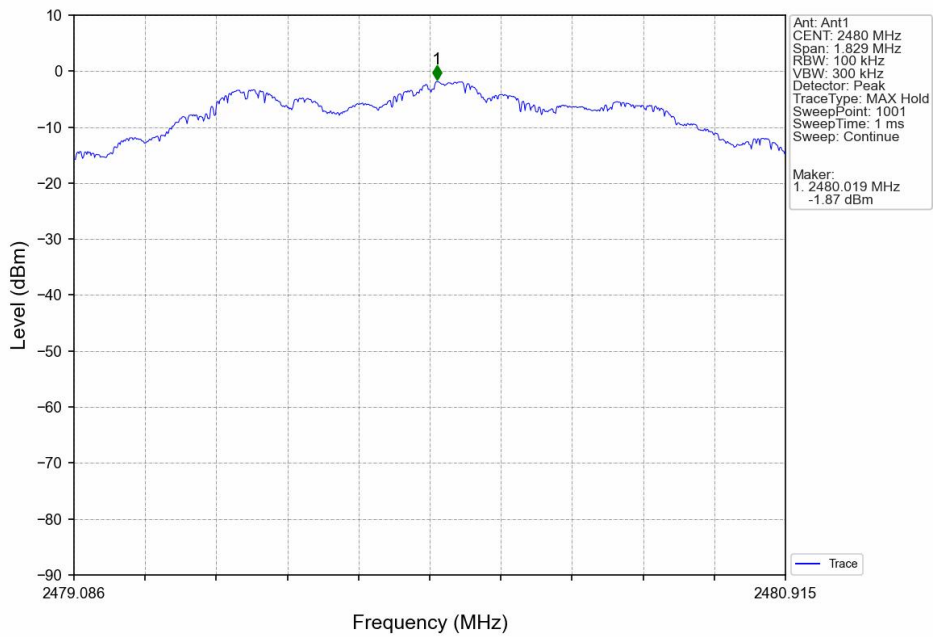


2M_MCH_2440MHz_Ant1_NTNV

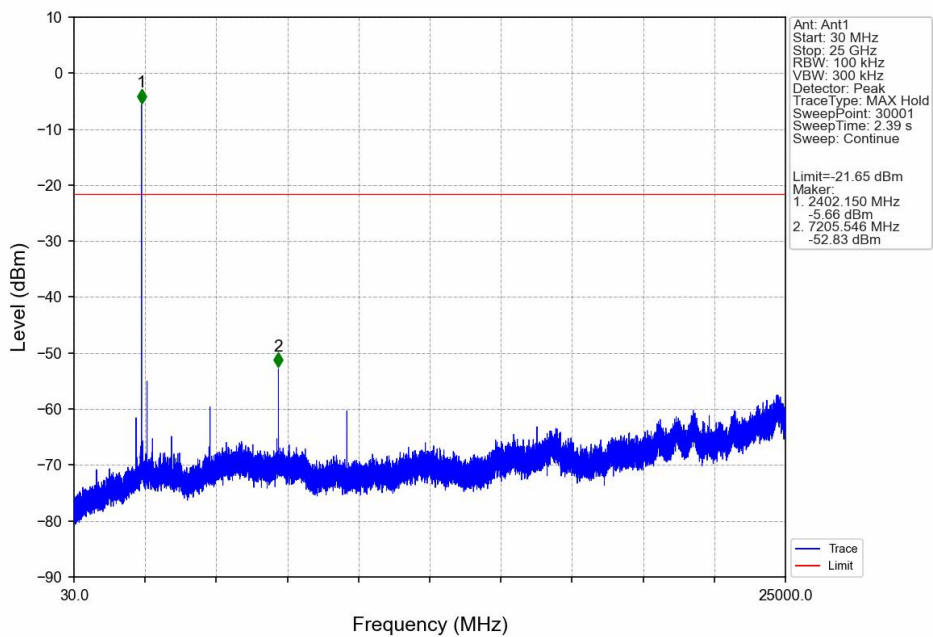




2M_HCH_2480MHz_Ant1_NTNV

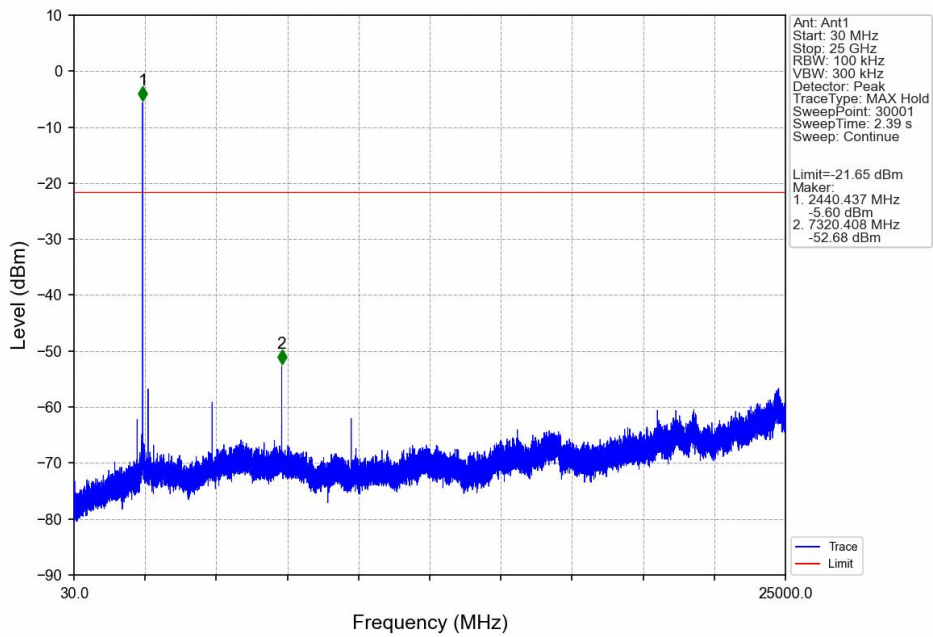


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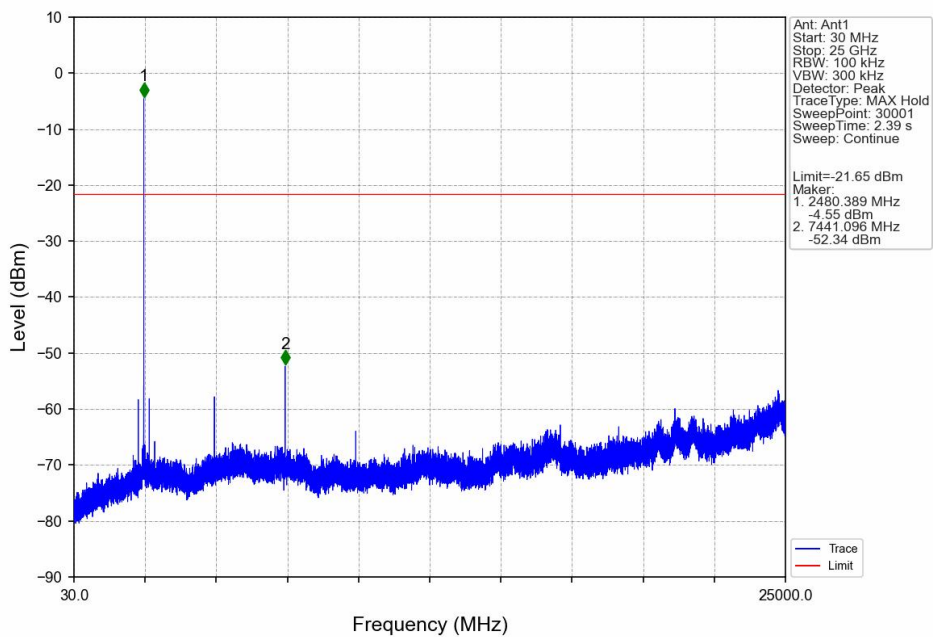




1M_MCH_2440MHz_Ant1_NTNV

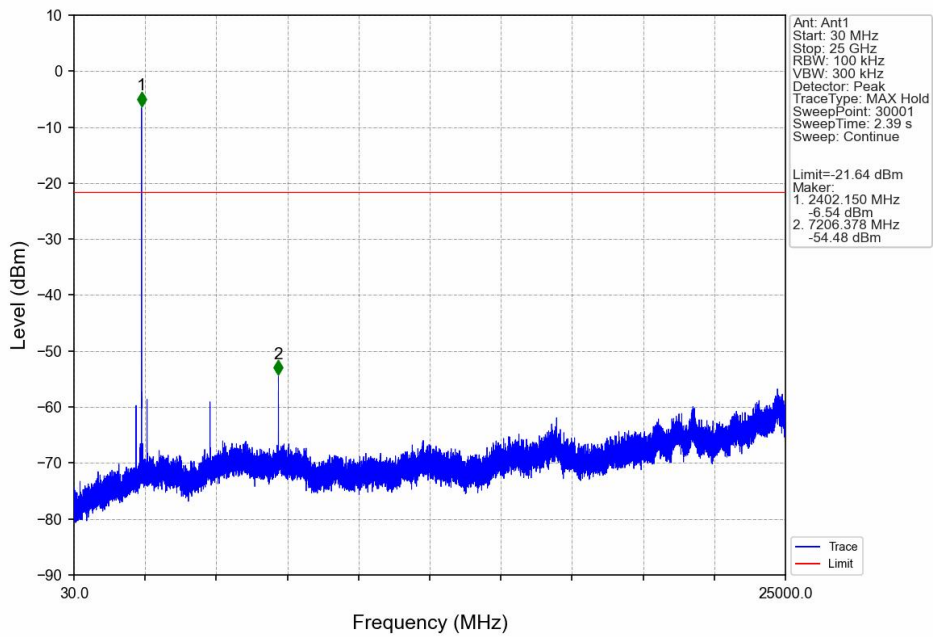


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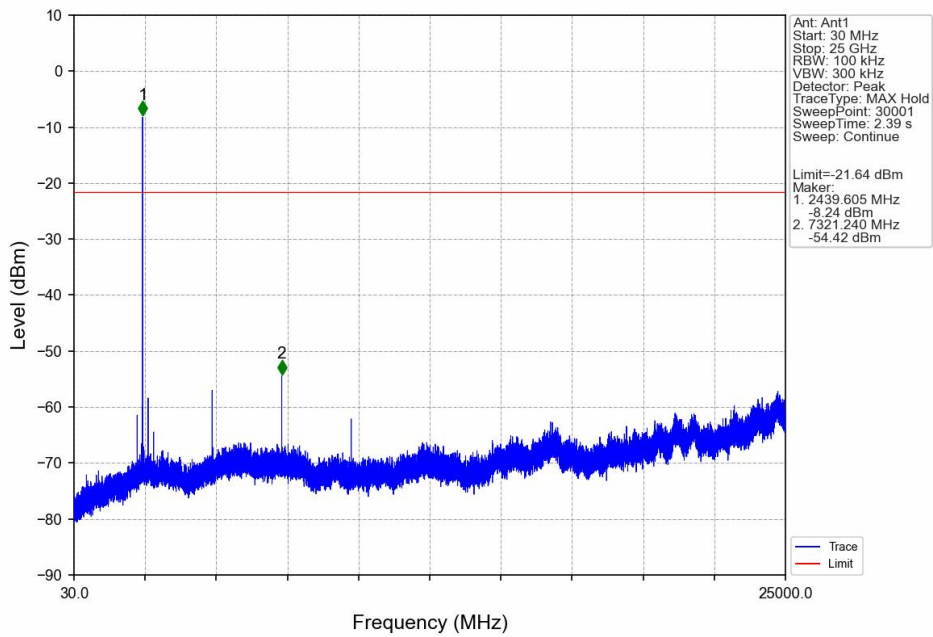




2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



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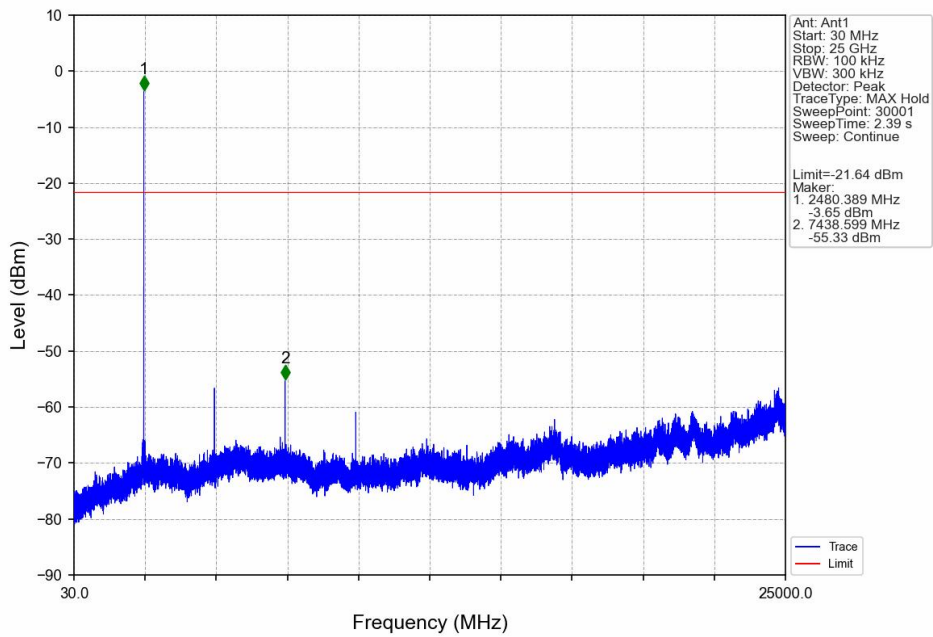
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2M_HCH_2480MHz_Ant1_NTNV

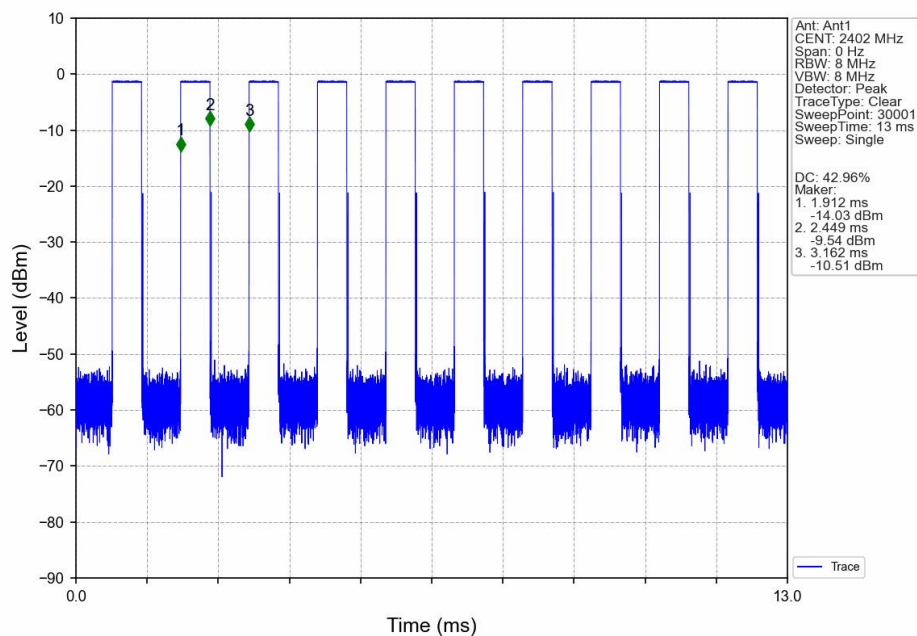




B.6 Duty Cycle

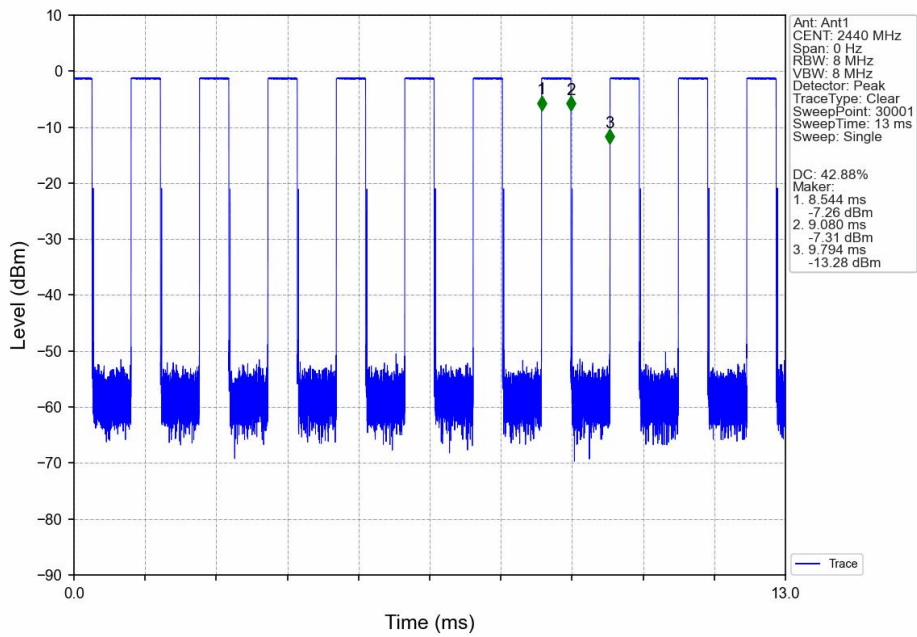
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.537	1.250	42.96	3.67	0.01
		2440	0.536	1.250	42.88	3.68	0.03
		2480	0.537	1.250	42.96	3.67	0.01
2M	SISO	2402	0.280	1.250	22.40	6.50	0.03
		2440	0.280	1.250	22.40	6.50	0.03
		2480	0.280	1.250	22.40	6.50	0.03

1M_LCH_2402MHz_Ant1_NTNV

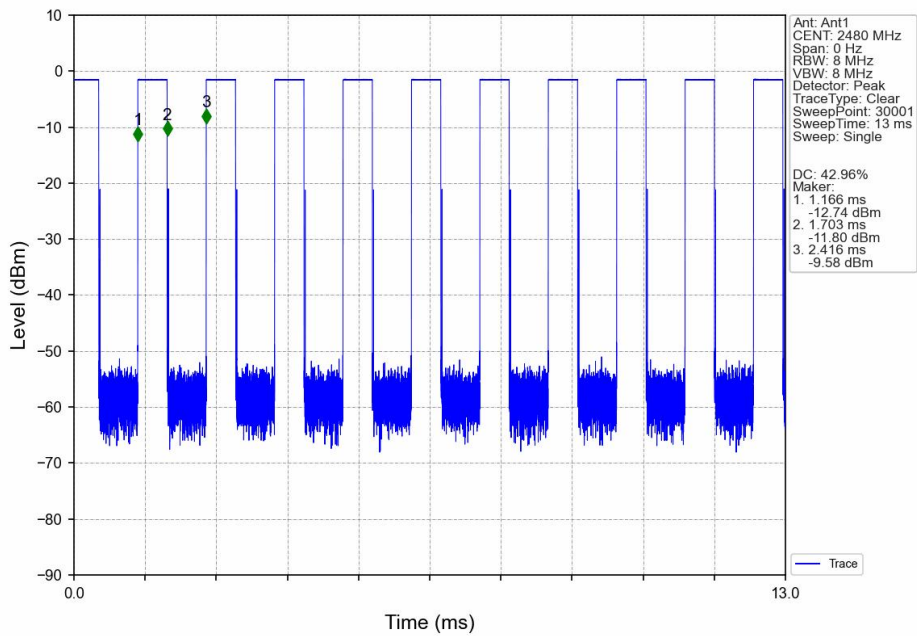




1M_MCH_2440MHz_Ant1_NTNV

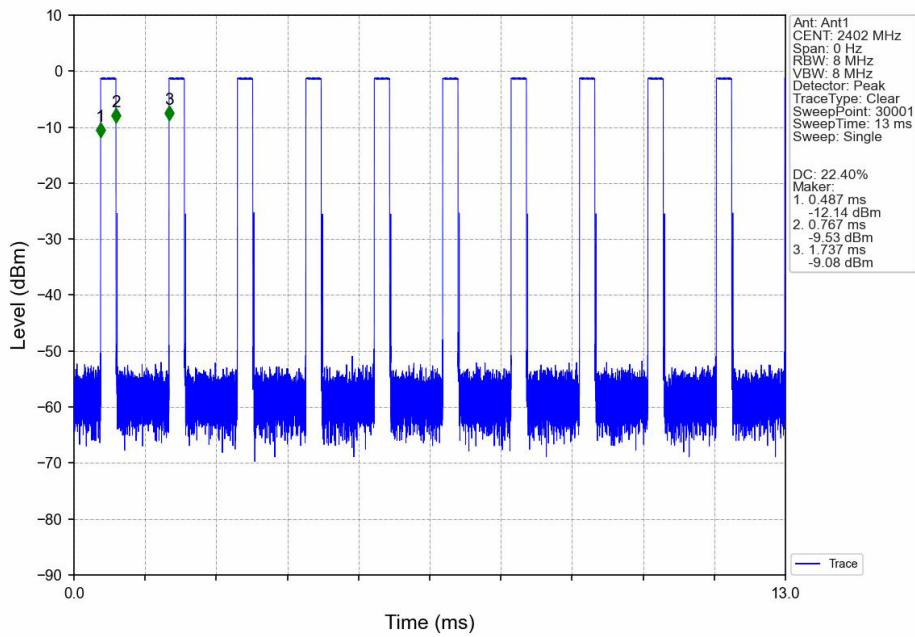


1M_HCH_2480MHz_Ant1_NTNV

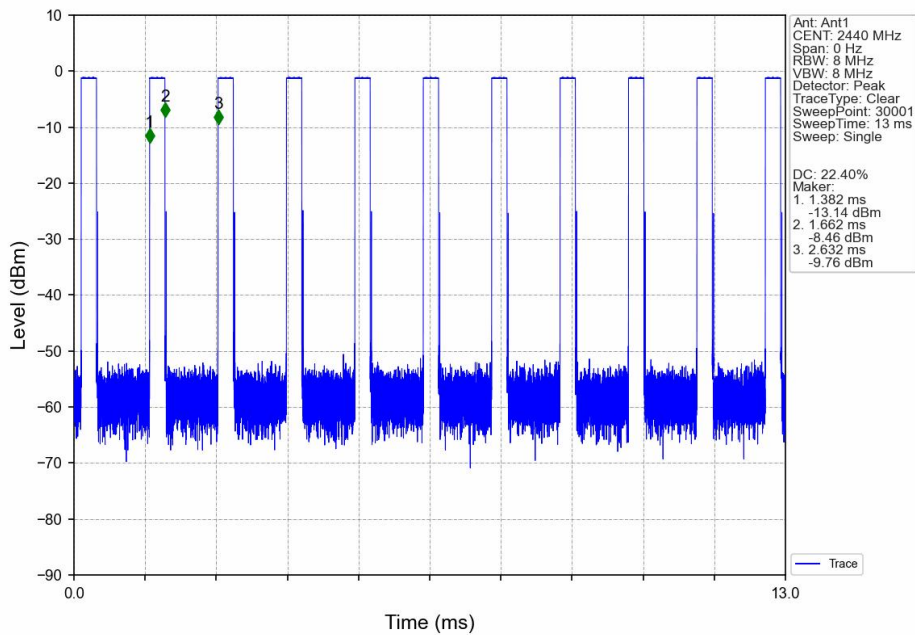




2M_LCH_2402MHz_Ant1_NTNV

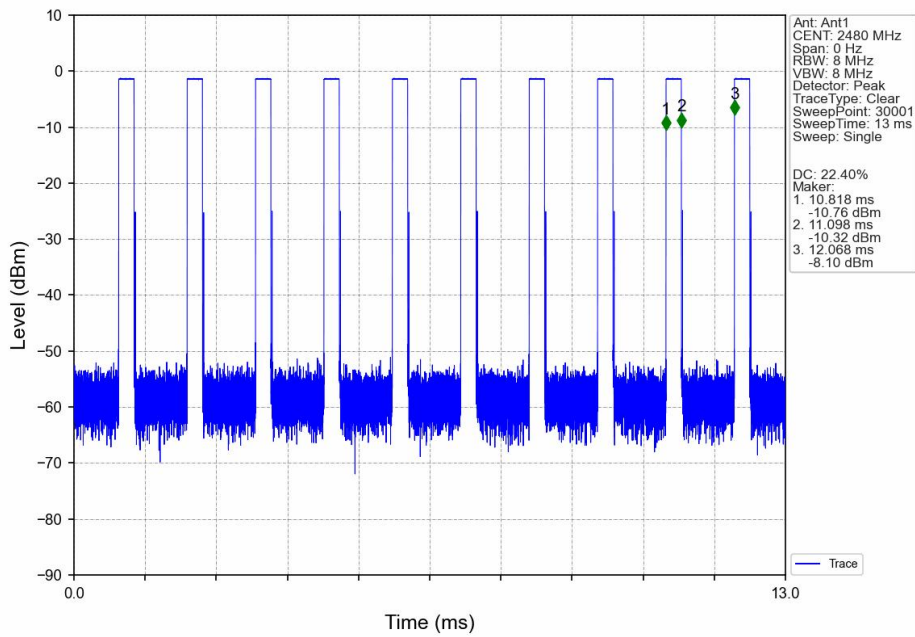


2M_MCH_2440MHz_Ant1_NTNV





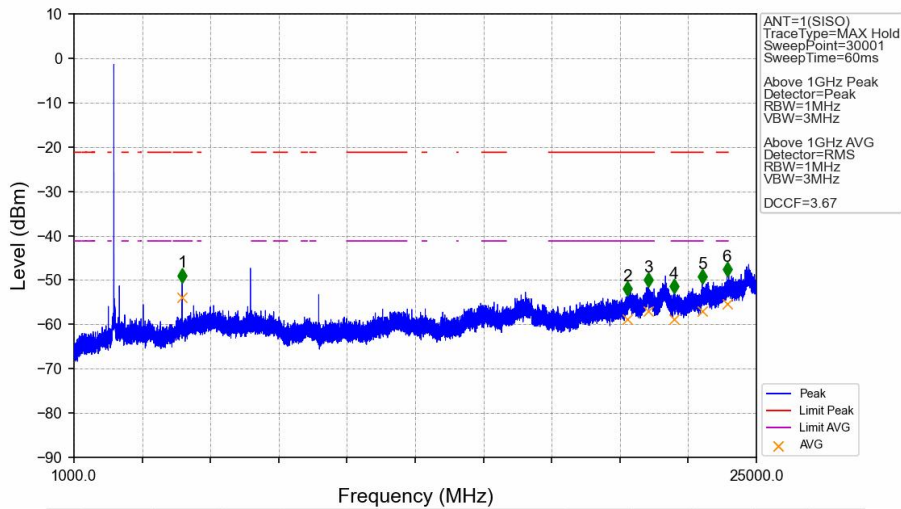
2M_HCH_2480MHz_Ant1_NTNV





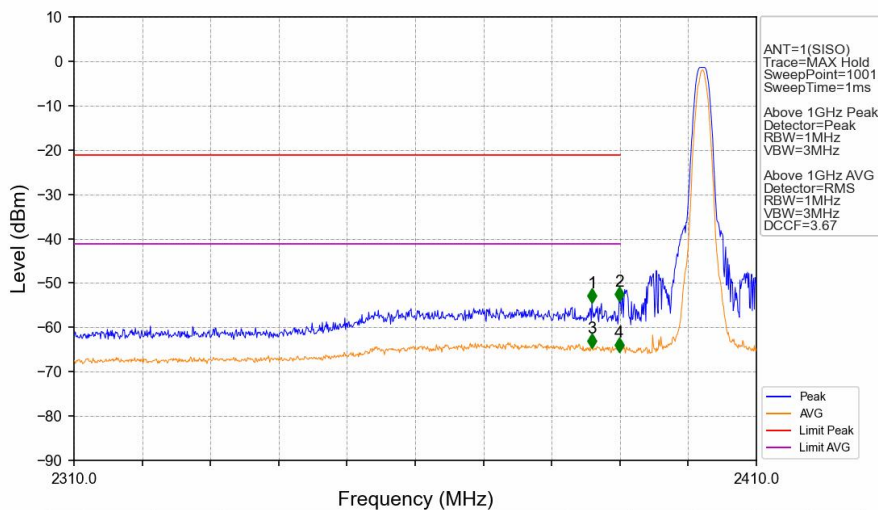
B.7 Restrict Band

1M_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	4804	-50.51	-21.20	29.31	Pass	Peak	7	4804	-53.90	-41.20	12.70	Pass	AVG
2	20464	-53.46	-21.20	32.26	Pass	Peak	8	20464	-58.89	-41.20	17.69	Pass	AVG
3	21192	-51.44	-21.20	30.24	Pass	Peak	9	21192	-57.03	-41.20	15.83	Pass	AVG
4	22092.8	-53.03	-21.20	31.83	Pass	Peak	10	22092.8	-58.84	-41.20	17.64	Pass	AVG
5	23095.2	-50.76	-21.20	29.56	Pass	Peak	11	23095.2	-57.01	-41.20	15.81	Pass	AVG
6	23965.6	-49.21	-21.20	28.01	Pass	Peak	12	23965.6	-55.34	-41.20	14.14	Pass	AVG

1M_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	2385.900	-54.37	-21.20	33.17	Pass	Peak	3	2385.900	-64.55	-41.20	23.35	Pass	AVG
2	2389.900	-53.99	-21.20	32.79	Pass	Peak	4	2389.900	-65.53	-41.20	24.32	Pass	AVG



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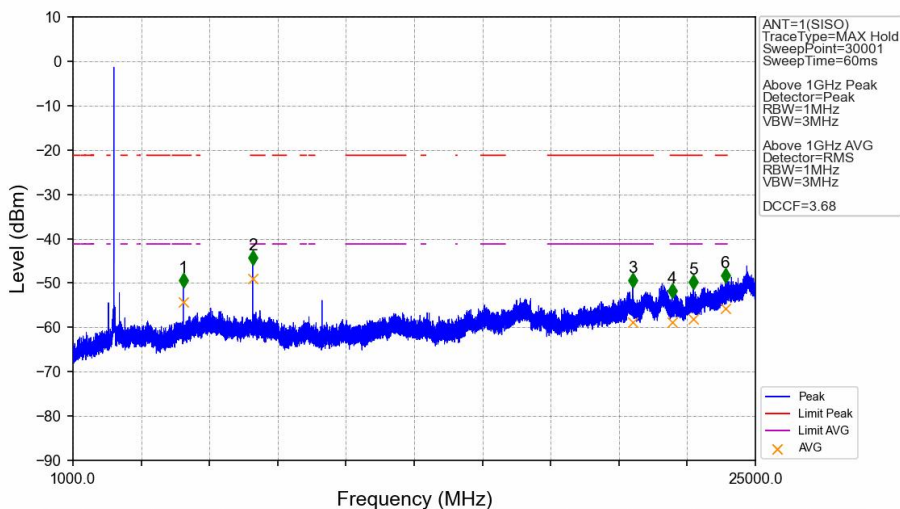
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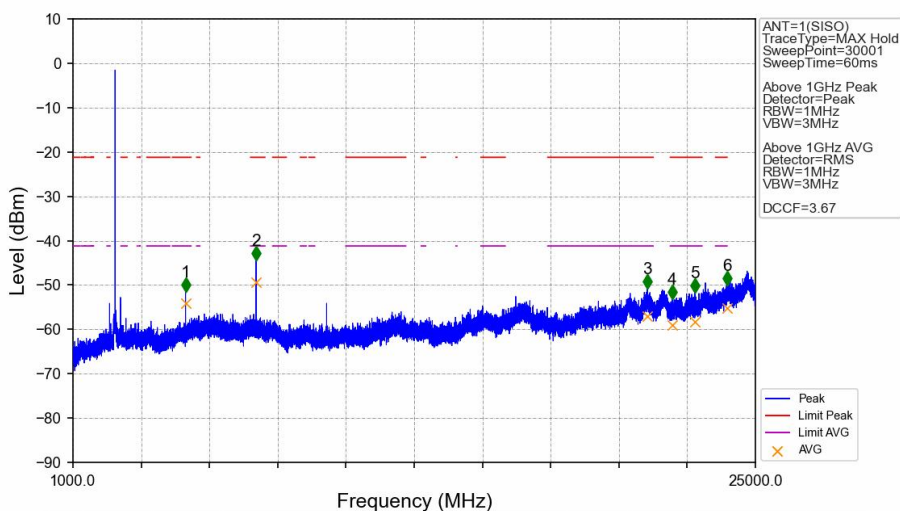


1M_MCH_2440MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4880	-51.05	-21.20	29.85	Pass	Peak	7	4880	-54.23	-41.20	13.04	Pass	AVG
2	7320.8	-45.90	-21.20	24.70	Pass	Peak	8	7320.8	-48.93	-41.20	7.73	Pass	AVG
3	20685.6	-51.04	-21.20	29.84	Pass	Peak	9	20685.6	-58.92	-41.20	17.72	Pass	AVG
4	22074.4	-53.25	-21.20	32.05	Pass	Peak	10	22074.4	-58.89	-41.20	17.69	Pass	AVG
5	22816	-51.33	-21.20	30.13	Pass	Peak	11	22816	-58.09	-41.20	16.89	Pass	AVG
6	23937.6	-49.90	-21.20	28.70	Pass	Peak	12	23937.6	-55.73	-41.20	14.53	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	-51.48	-21.20	30.27	Pass	Peak	7	4960	-54.11	-41.20	12.91	Pass	AVG
2	7440	-44.44	-21.20	23.24	Pass	Peak	8	7440	-49.47	-41.20	8.27	Pass	AVG
3	21198.4	-50.77	-21.20	29.57	Pass	Peak	9	21198.4	-56.99	-41.20	15.79	Pass	AVG
4	22072	-53.20	-21.20	32.00	Pass	Peak	10	22072	-58.99	-41.20	17.80	Pass	AVG
5	22873.6	-51.73	-21.20	30.53	Pass	Peak	11	22873.6	-58.30	-41.20	17.10	Pass	AVG
6	23999.2	-50.02	-21.20	28.82	Pass	Peak	12	23999.2	-55.16	-41.20	13.96	Pass	AVG



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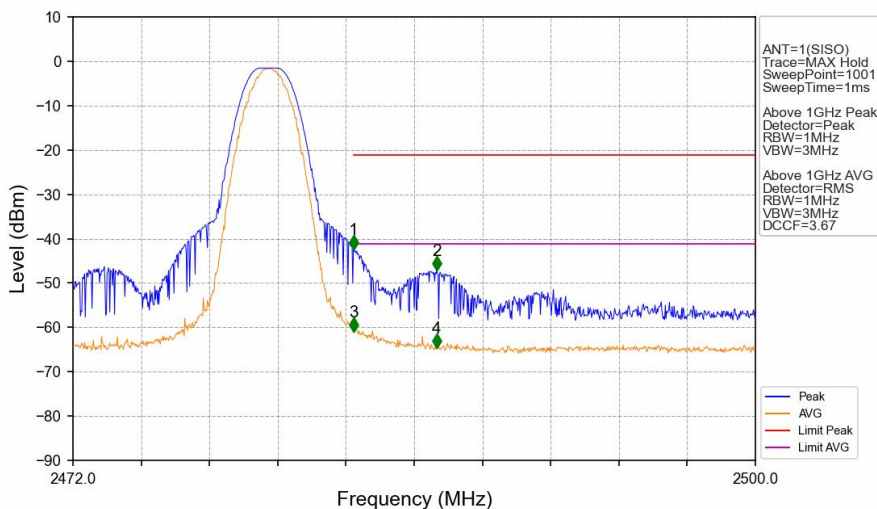
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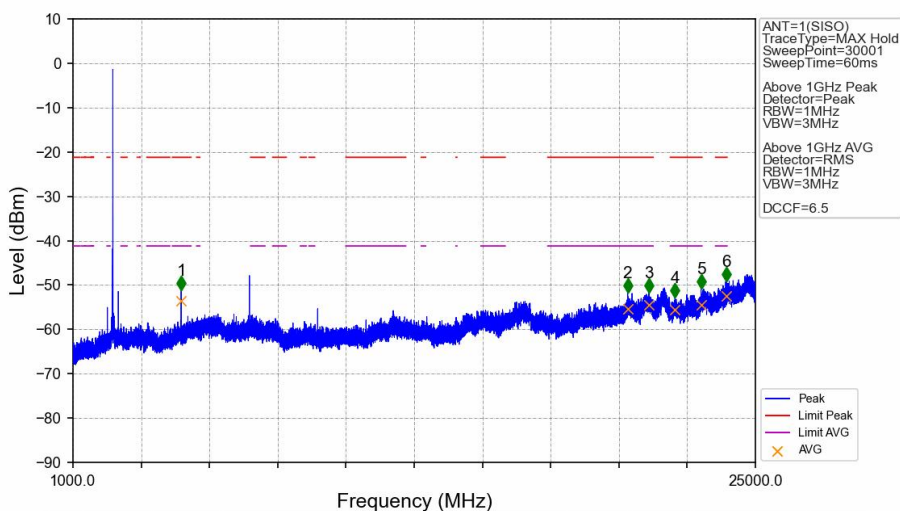


1M_HCH_2480MHz_Ant1_NTNV



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	-42.46	-21.20	21.26	Pass	Peak	3	2483.508	-61.03	-41.20	19.83	Pass	AVG
2	2486.924	-47.06	-21.20	25.86	Pass	Peak	4	2486.924	-64.65	-41.20	23.45	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	4804.8	-51.15	-21.20	29.95	Pass	Peak	7	4804.8	-53.55	-41.20	12.35	Pass	AVG
2	20508.8	-51.69	-21.20	30.49	Pass	Peak	8	20508.8	-55.36	-41.20	14.16	Pass	AVG
3	21267.2	-51.66	-21.20	30.46	Pass	Peak	9	21267.2	-54.45	-41.20	13.25	Pass	AVG
4	22170.4	-52.74	-21.20	31.54	Pass	Peak	10	22170.4	-55.52	-41.20	14.32	Pass	AVG
5	23088.8	-50.78	-21.20	29.58	Pass	Peak	11	23088.8	-54.51	-41.20	13.31	Pass	AVG
6	23983.2	-49.13	-21.20	27.93	Pass	Peak	12	23983.2	-52.42	-41.20	11.22	Pass	AVG



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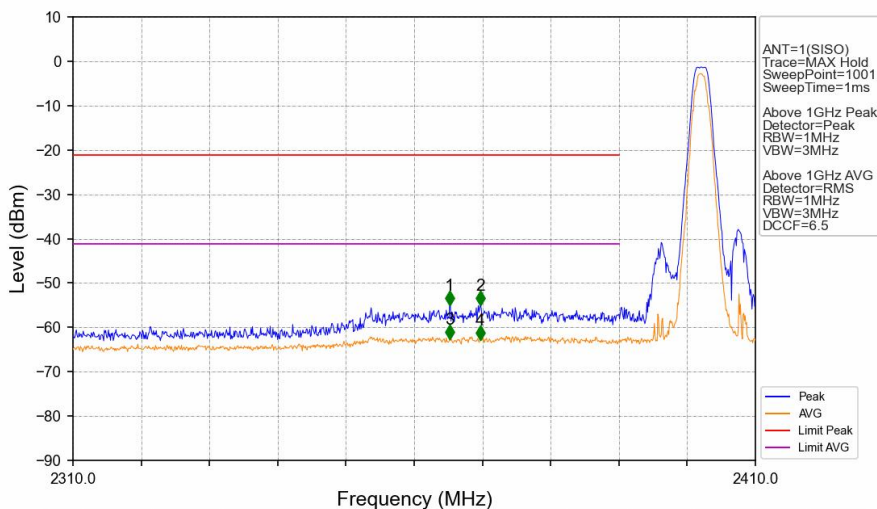
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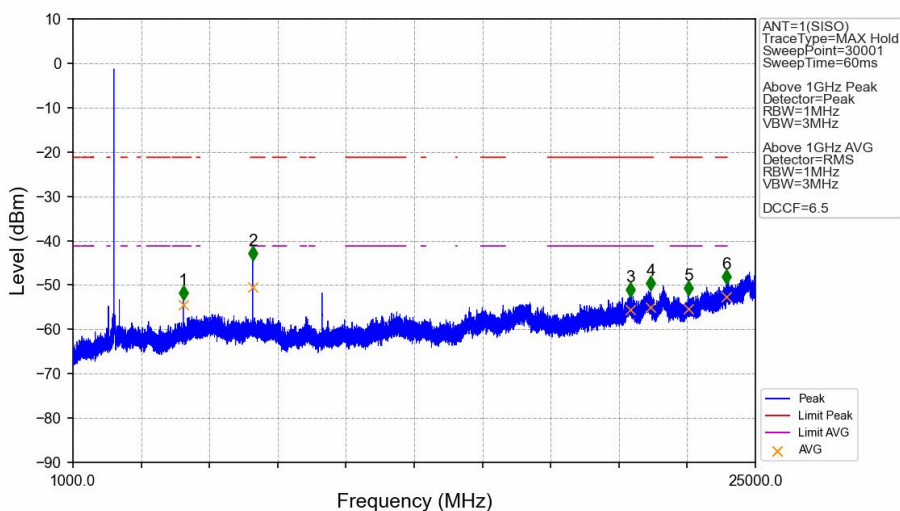


2M_LCH_2402MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2365.200	-54.95	-21.20	33.75	Pass	Peak	3	2365.200	-62.62	-41.20	21.41	Pass	AVG
2	2369.700	-54.93	-21.20	33.73	Pass	Peak	4	2369.700	-62.83	-41.20	21.63	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	4879.2	-53.35	-21.20	32.15	Pass	Peak	7	4879.2	-54.40	-41.20	13.20	Pass	AVG
2	7320	-44.43	-21.20	23.23	Pass	Peak	8	7320	-50.47	-41.20	9.27	Pass	AVG
3	20588.8	-52.69	-21.20	31.49	Pass	Peak	9	20588.8	-55.49	-41.20	14.29	Pass	AVG
4	21325.6	-51.19	-21.20	29.99	Pass	Peak	10	21325.6	-55.03	-41.20	13.83	Pass	AVG
5	22640.8	-52.17	-21.20	30.97	Pass	Peak	11	22640.8	-55.47	-41.20	14.27	Pass	AVG
6	23968.8	-49.70	-21.20	28.50	Pass	Peak	12	23968.8	-52.64	-41.20	11.44	Pass	AVG



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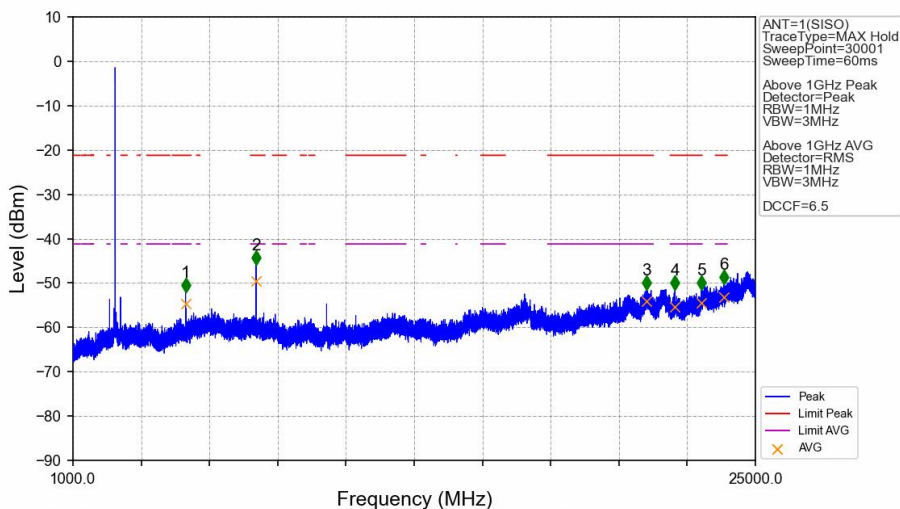
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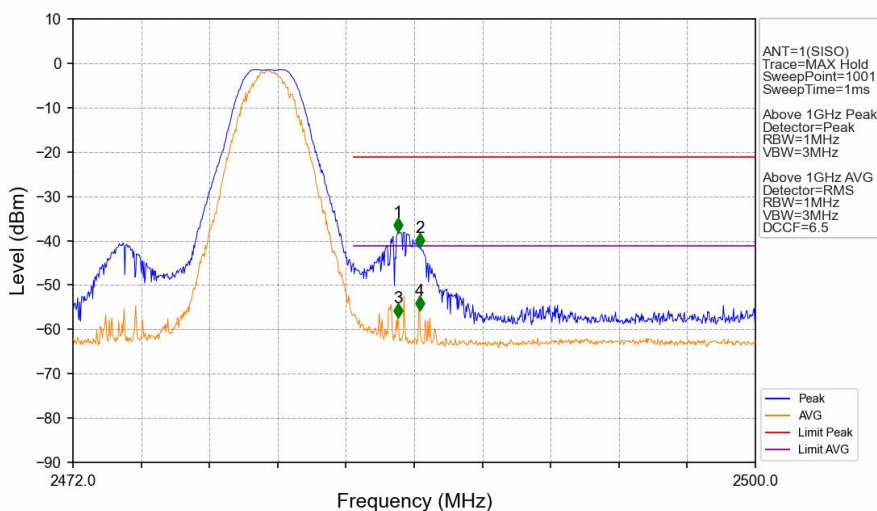


2M_HCH_2480MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4960.8	-52.09	-21.20	30.89	Pass	Peak	7	4960.8	-54.62	-41.20	13.42	Pass	AVG
2	7440.8	-45.90	-21.20	24.70	Pass	Peak	8	7440.8	-49.65	-41.20	8.45	Pass	AVG
3	21171.2	-51.59	-21.20	30.39	Pass	Peak	9	21171.2	-54.20	-41.20	13.00	Pass	AVG
4	22167.2	-51.46	-21.20	30.26	Pass	Peak	10	22167.2	-55.44	-41.20	14.24	Pass	AVG
5	23093.6	-51.53	-21.20	30.33	Pass	Peak	11	23093.6	-54.45	-41.20	13.25	Pass	AVG
6	23898.4	-50.19	-21.20	28.99	Pass	Peak	12	23898.4	-53.25	-41.20	12.05	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	2485.328	-38.10	-21.20	16.90	Pass	Peak	3	2485.328	-57.32	-41.20	16.12	Pass	AVG
2	2486.224	-41.45	-21.20	20.25	Pass	Peak	4	2486.224	-55.64	-41.20	14.44	Pass	AVG



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