Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Pet Water Fountain

Test Model: WF311

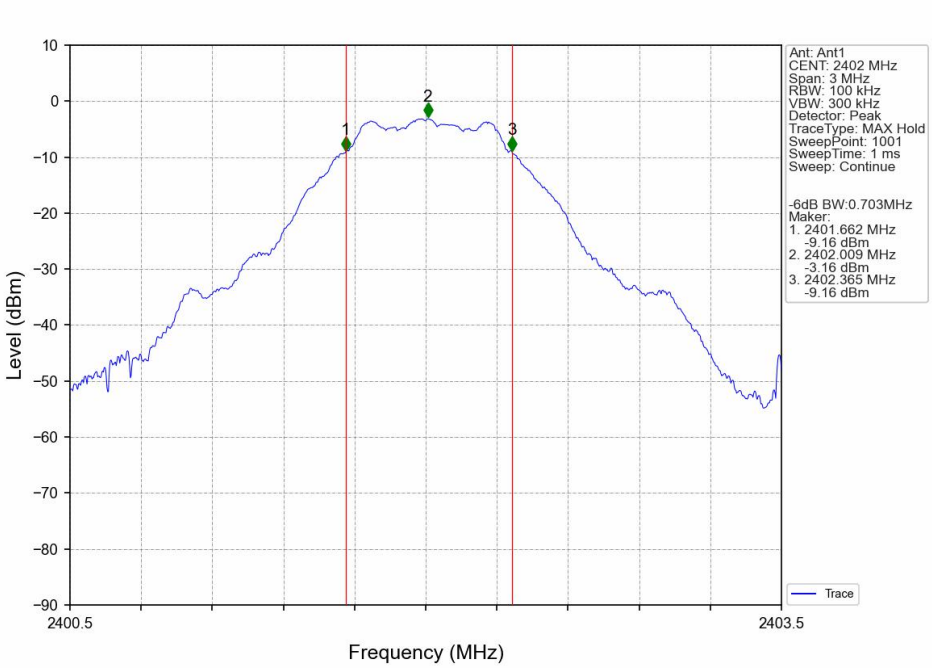
Environmental Conditions

Temperature:	23.9° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Jone.Lee
Supervised by:	Yan Chen

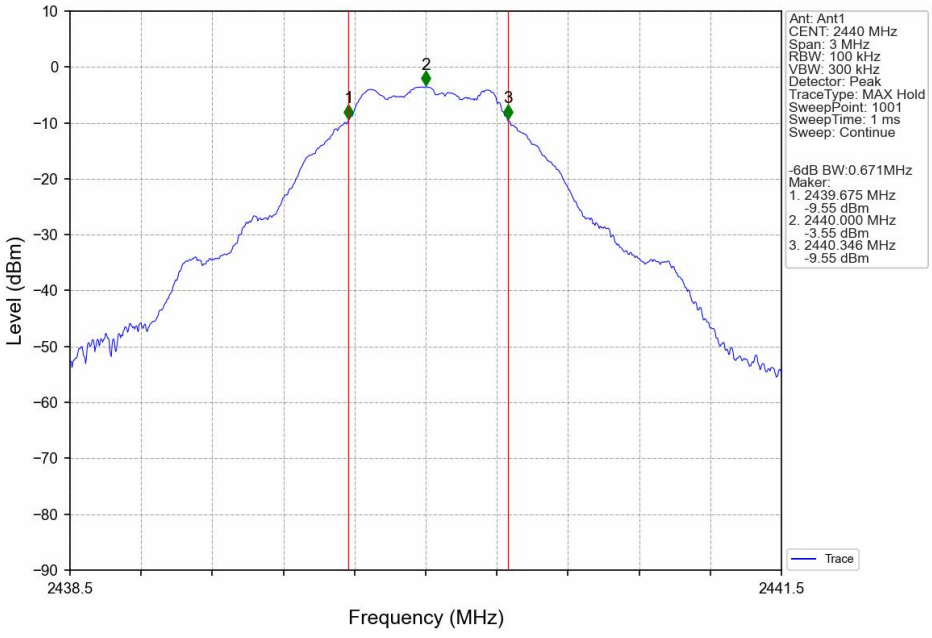
A.1 6dB Bandwidth

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.703	>=0.5	Pass
		2440	1	0.671	>=0.5	Pass
		2480	1	0.664	>=0.5	Pass

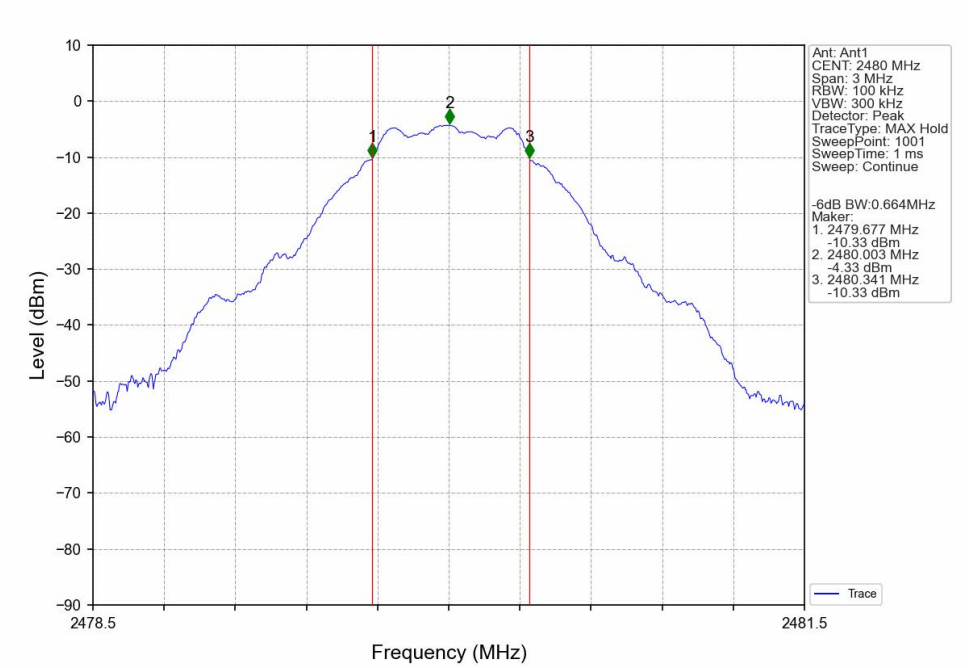
1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



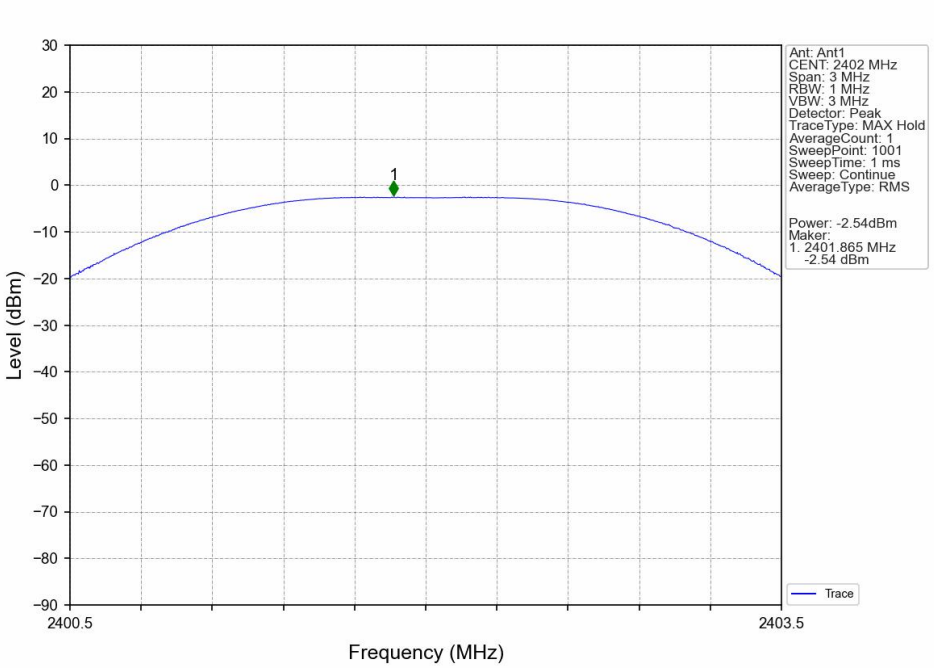
1M_HCH_2480MHz_Ant1_NTNV



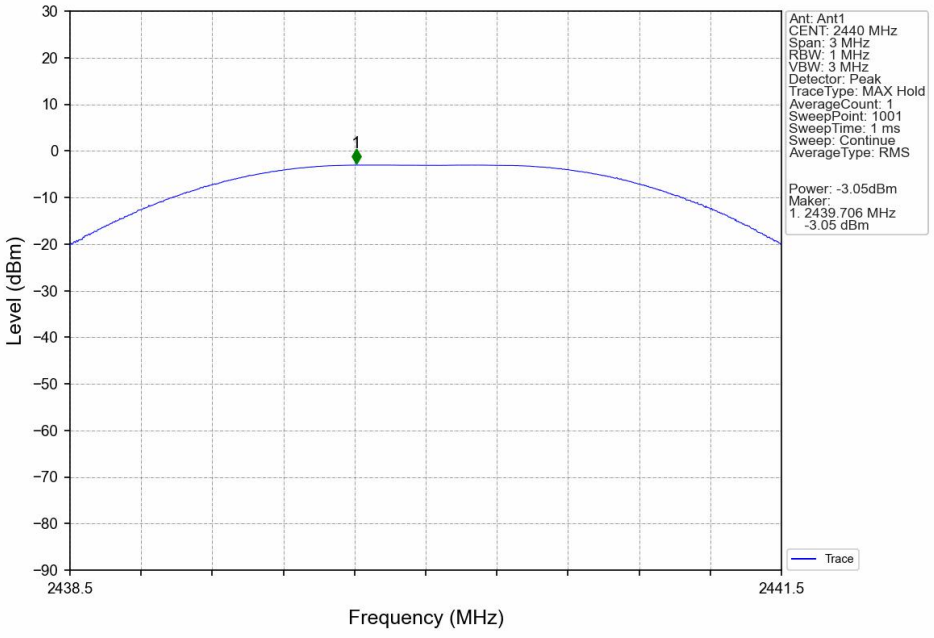
A.2 Maximum Peak Conducted Output Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-2.54	<=30	Pass
		2440	-3.05	<=30	Pass
		2480	-3.76	<=30	Pass

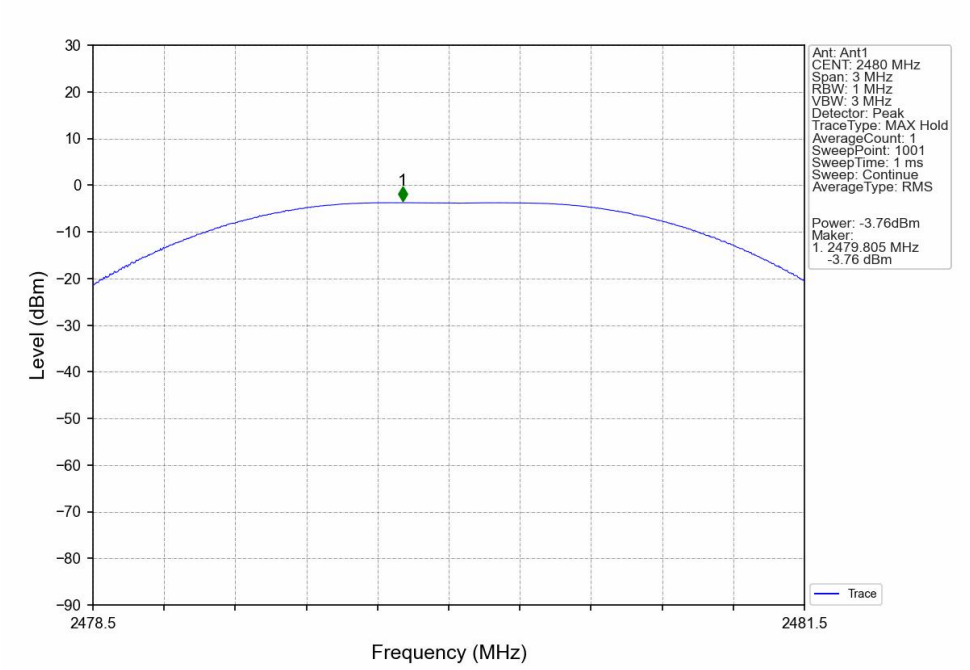
1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



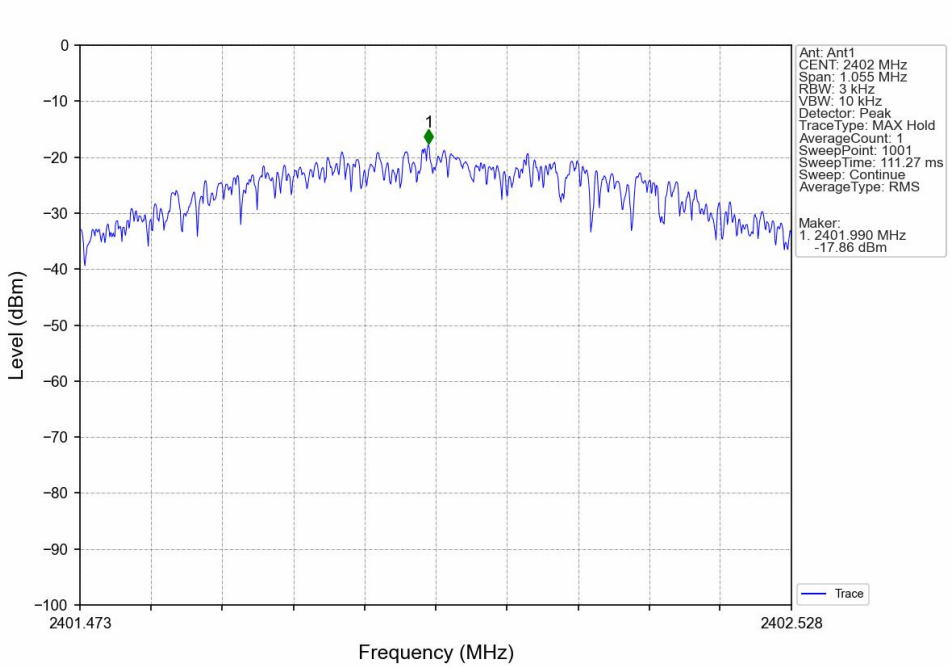
1M_HCH_2480MHz_Ant1_NTNV



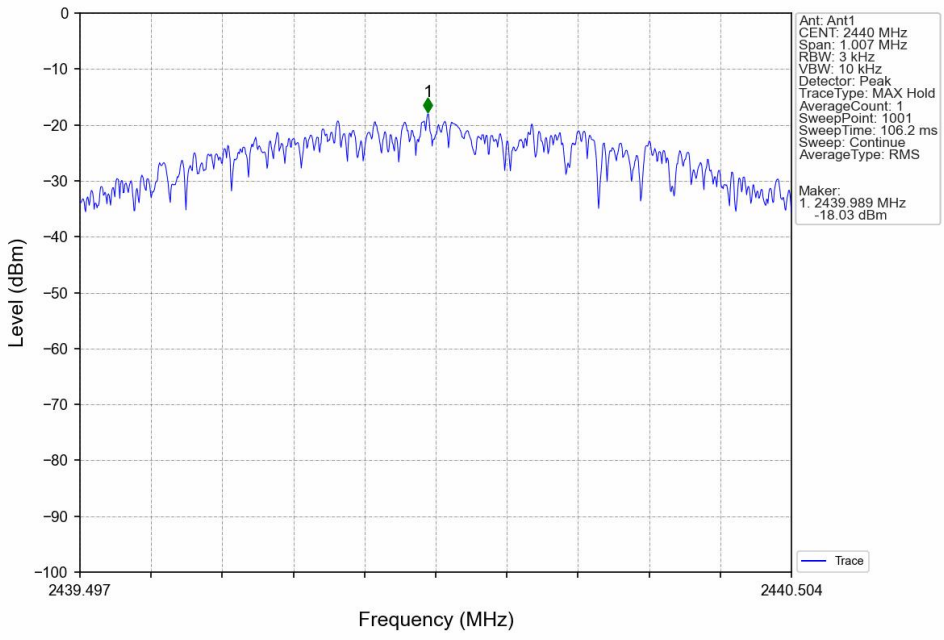
A.3 Maximum Power Spectral Density

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-17.86	<=8	Pass
		2440	-18.03	<=8	Pass
		2480	-19.10	<=8	Pass

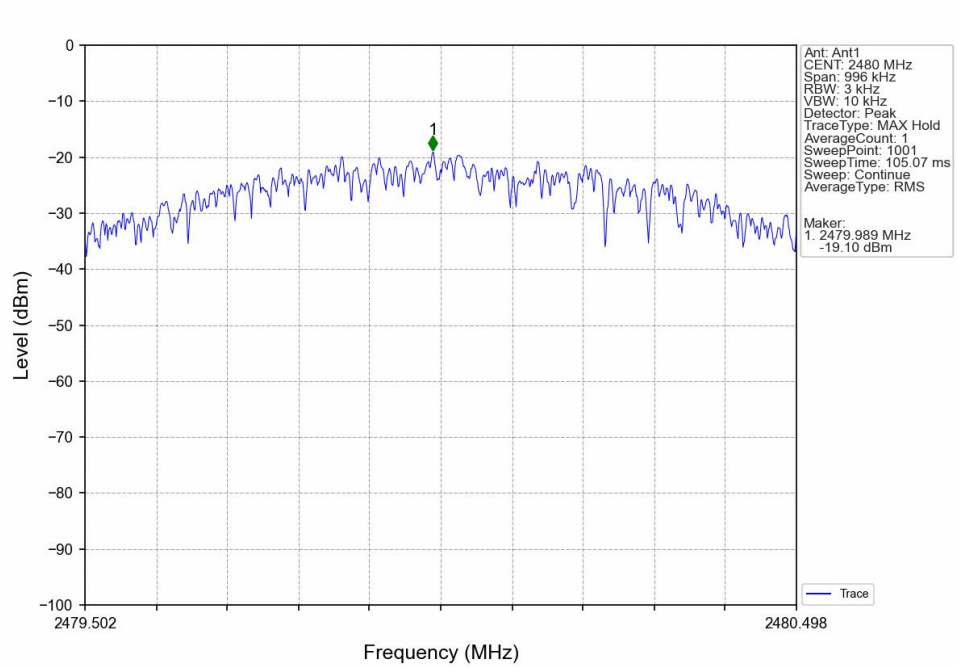
1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



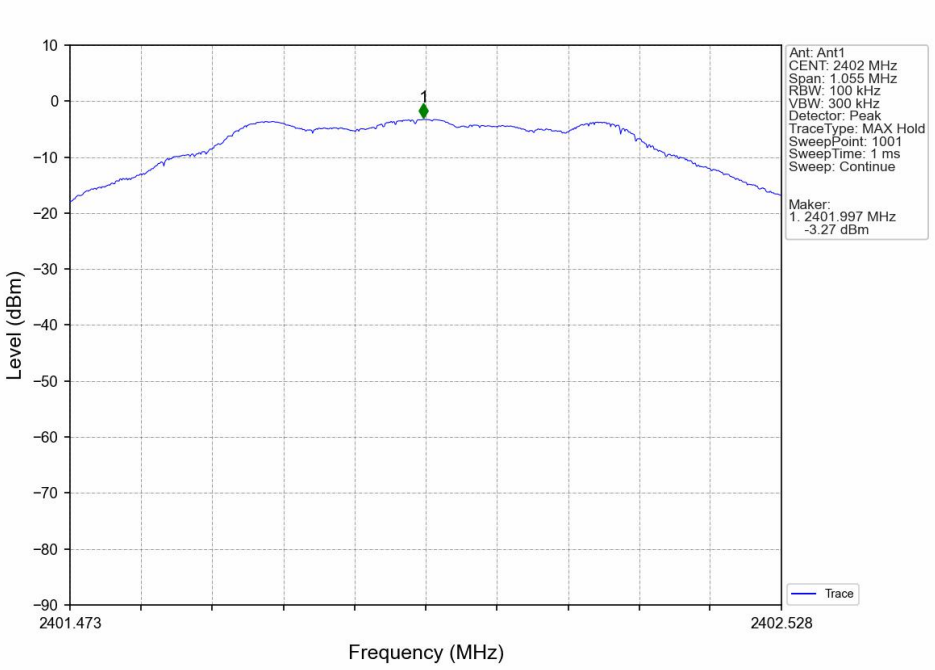
1M_HCH_2480MHz_Ant1_NTNV



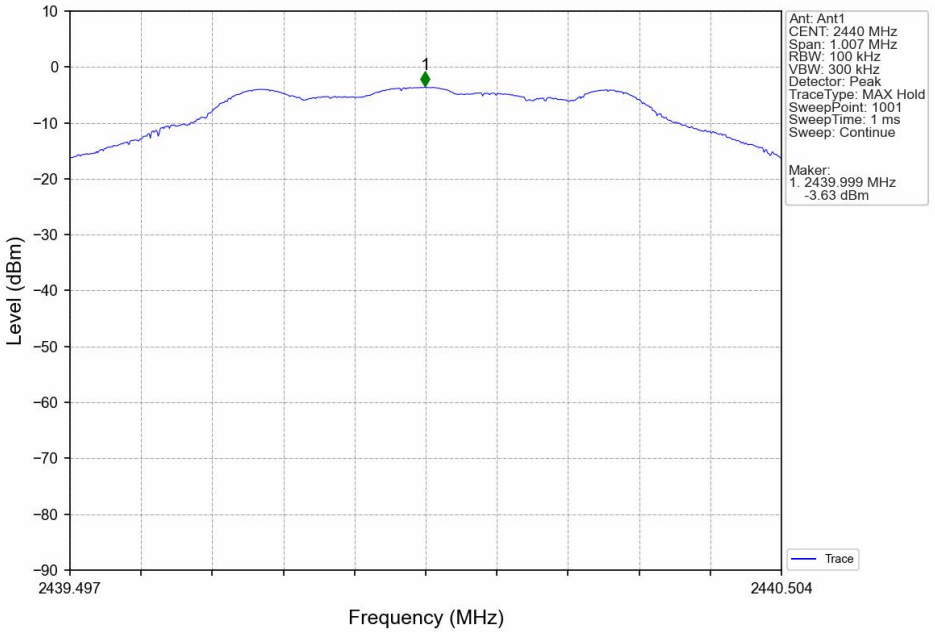
A.4 Band Edge

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-3.27	-23.27	Pass
		2440	1	-3.27	-23.27	Pass
		2480	1	-3.27	-23.27	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.						

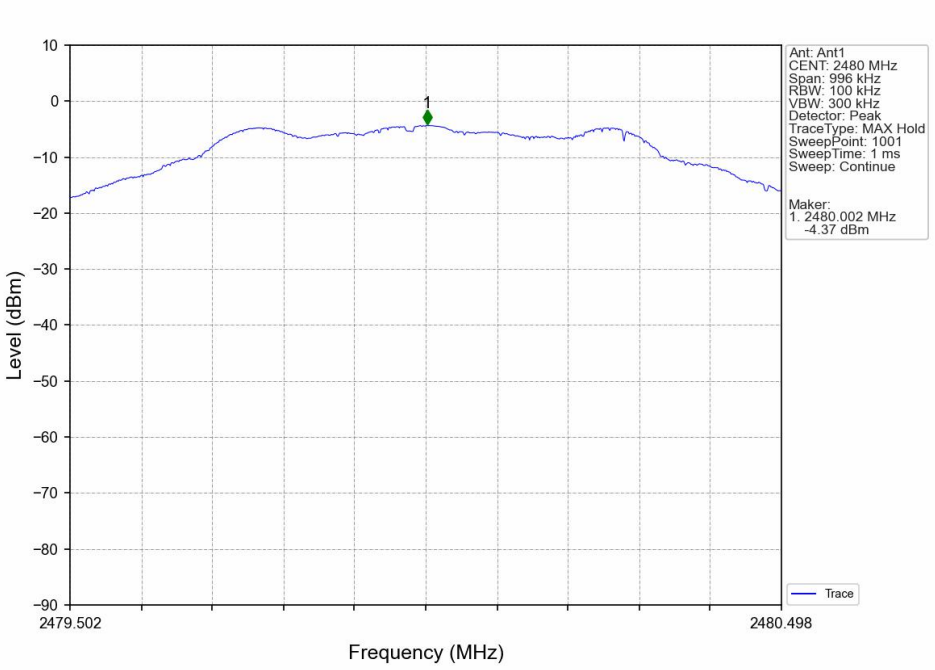
1M_LCH_2402MHz_Ant1_NTNV



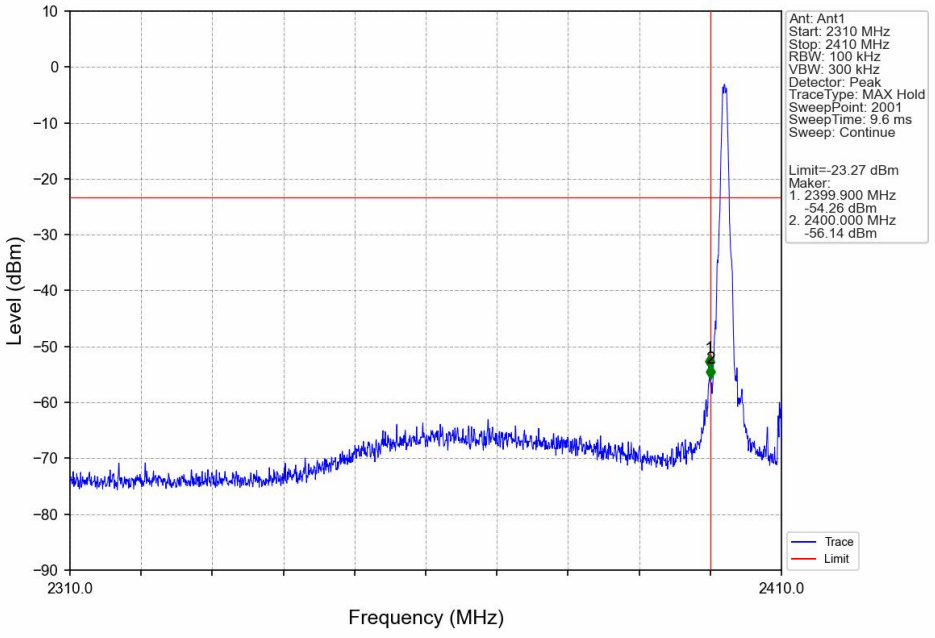
1M_MCH_2440MHz_Ant1_NTNV



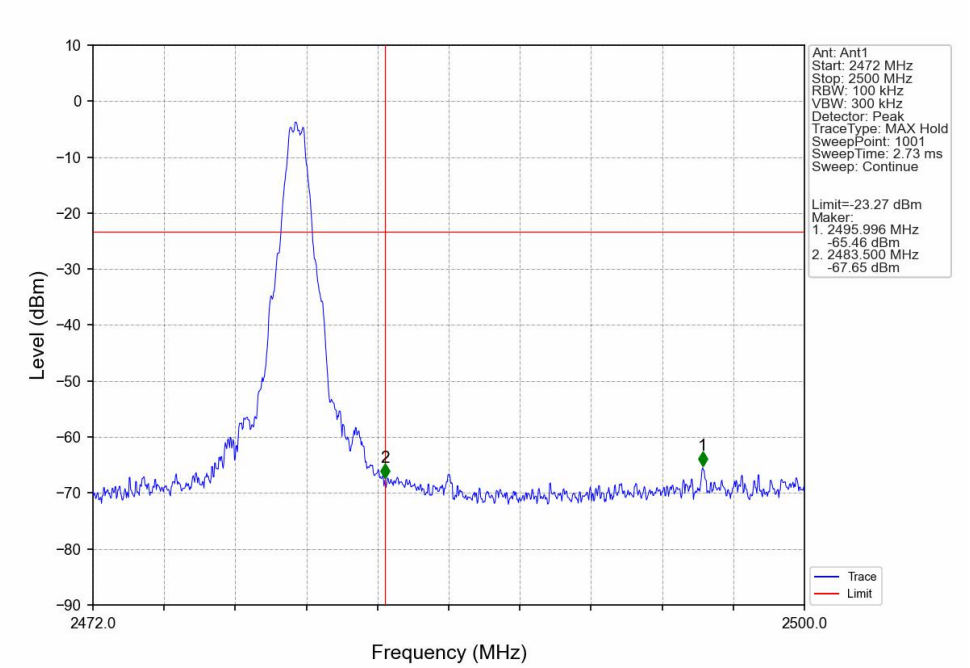
1M_HCH_2480MHz_Ant1_NTNV



1M_LCH_2402MHz_Ant1_NTNV



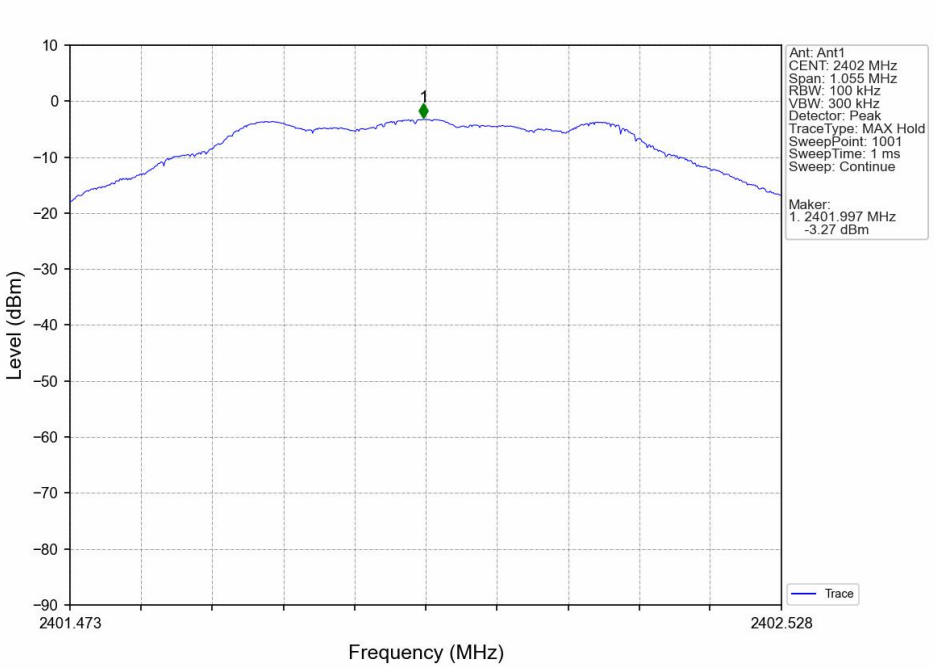
1M_HCH_2480MHz_Ant1_NTNV



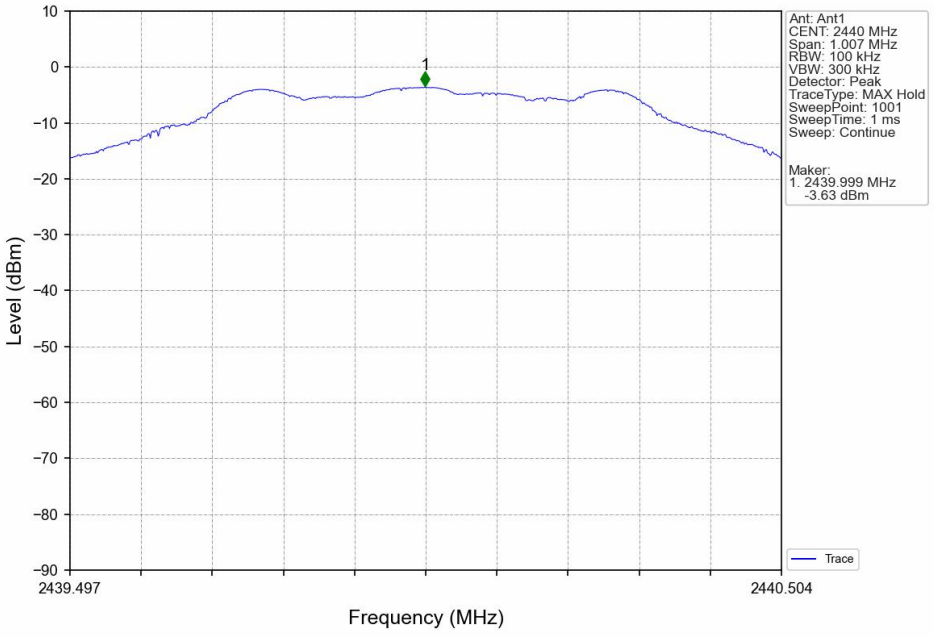
A.5 Conducted RF Spurious Emission

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-3.27
		2440	1	-3.63
		2480	1	-4.37
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.				

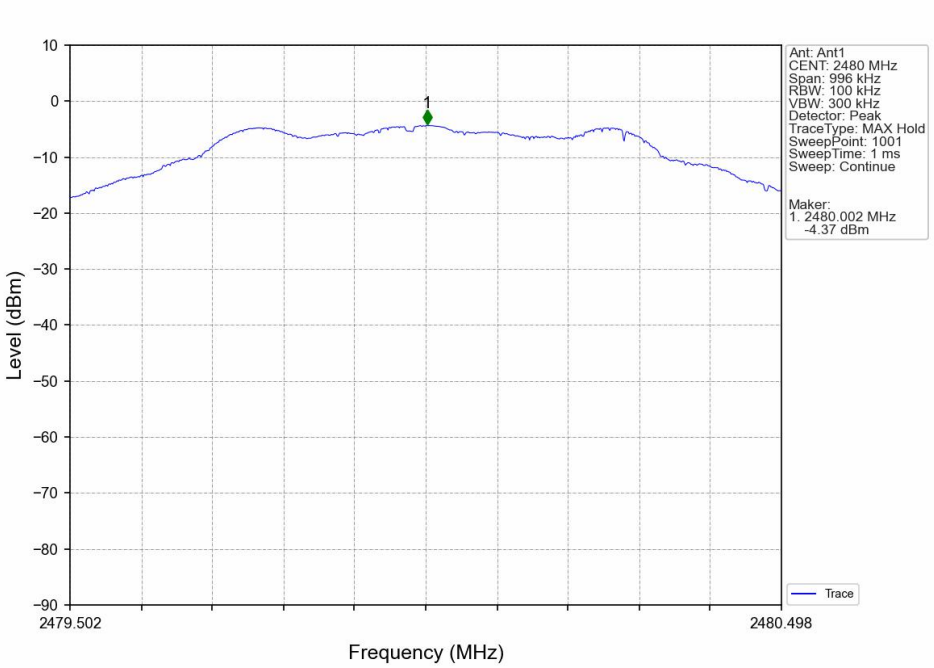
1M_LCH_2402MHz_Ant1_NTNV



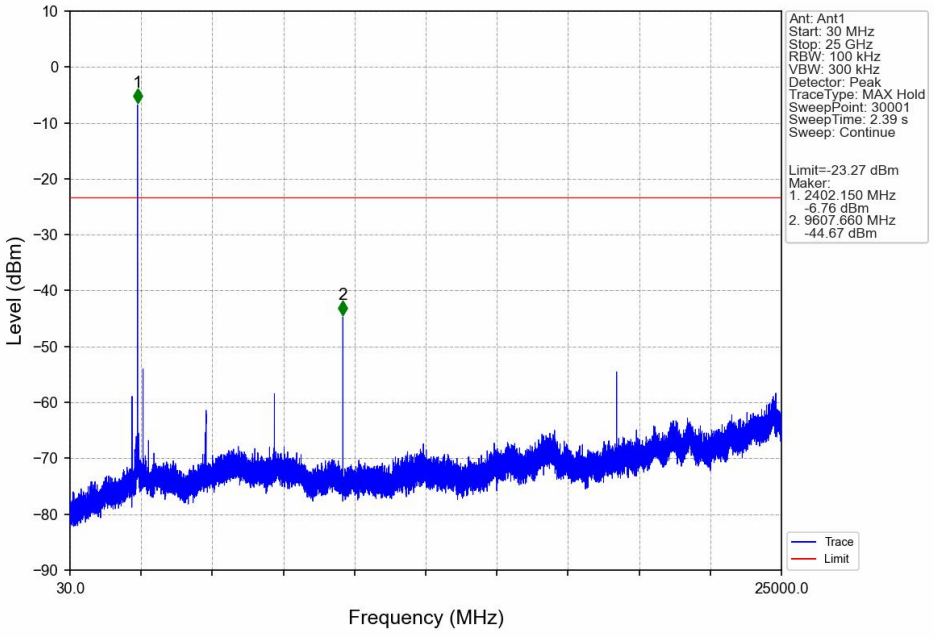
1M_MCH_2440MHz_Ant1_NTNV



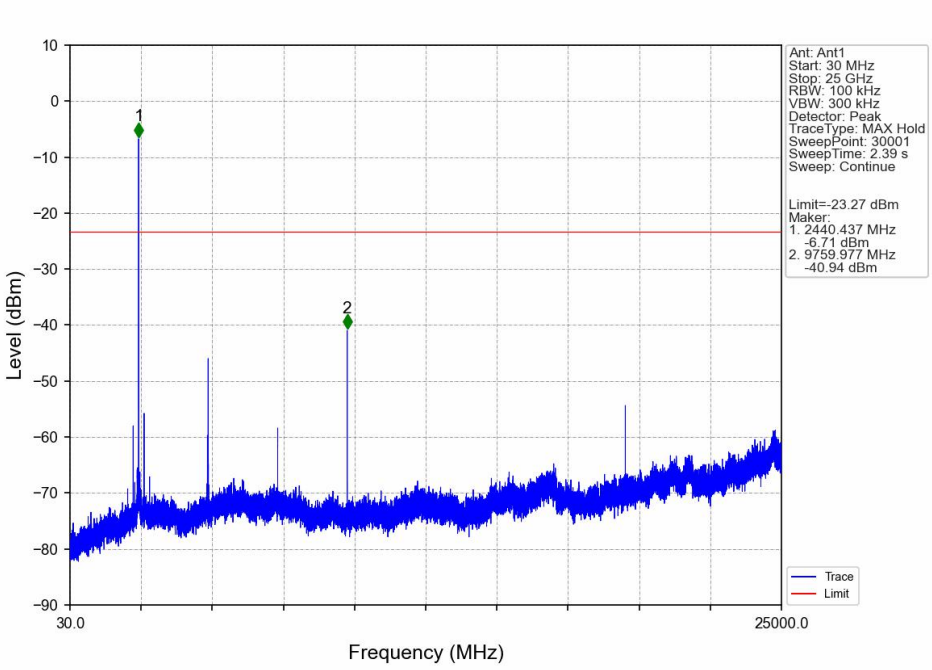
1M_HCH_2480MHz_Ant1_NTNV



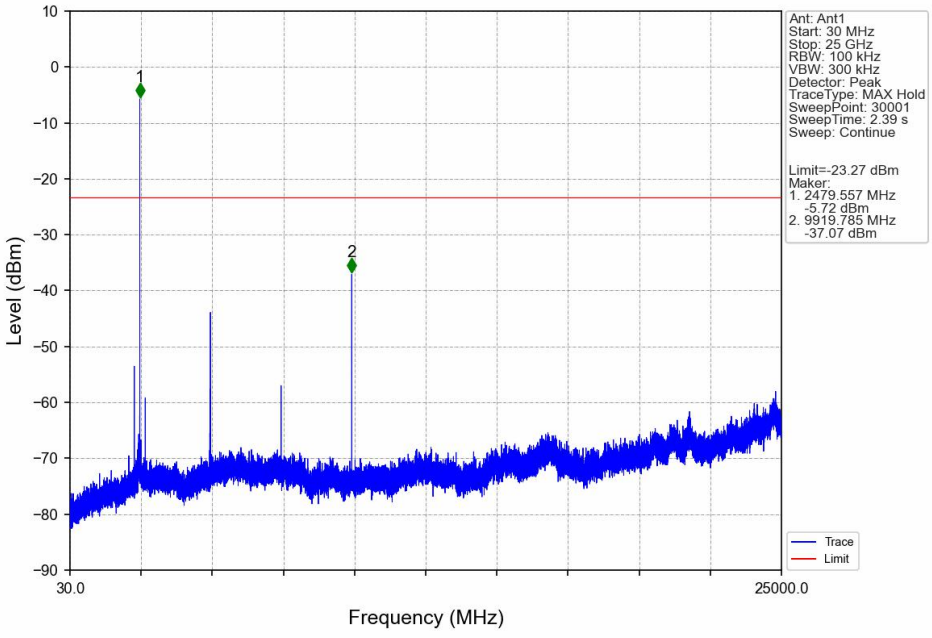
1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



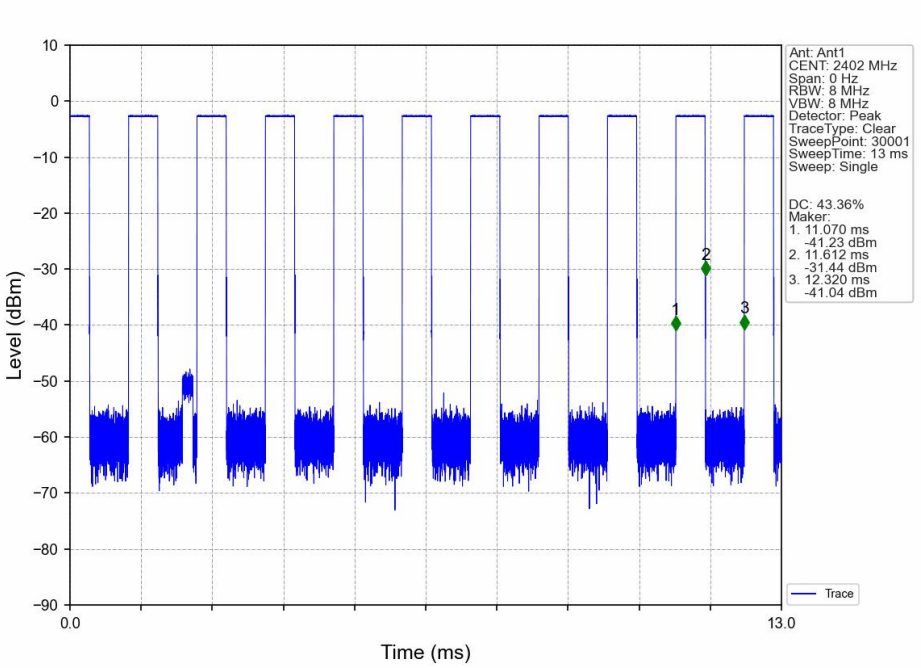
1M_HCH_2480MHz_Ant1_NTNV



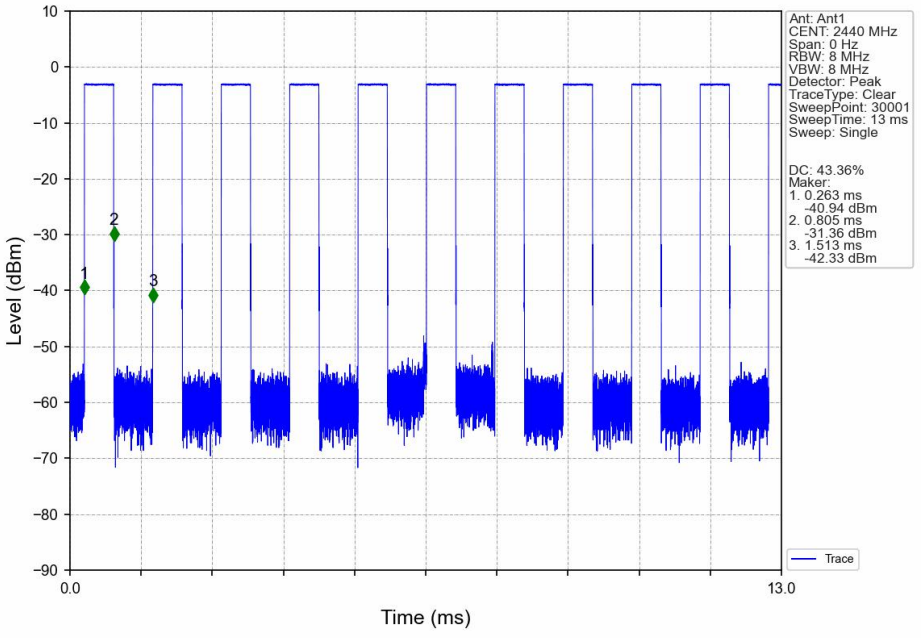
A.6 Duty Cycle

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.542	1.250	43.36	3.63	0.03
		2440	0.542	1.250	43.36	3.63	0.03
		2480	0.542	1.251	43.33	3.63	0.03

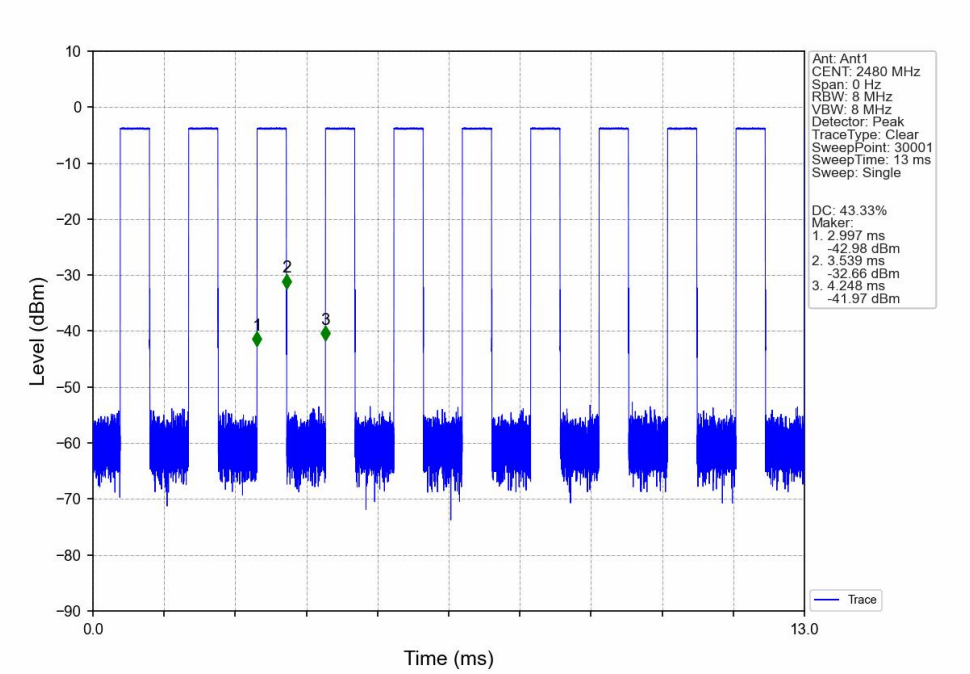
1M_LCH_2402MHz_Ant1_NTNV



1M_MCH_2440MHz_Ant1_NTNV



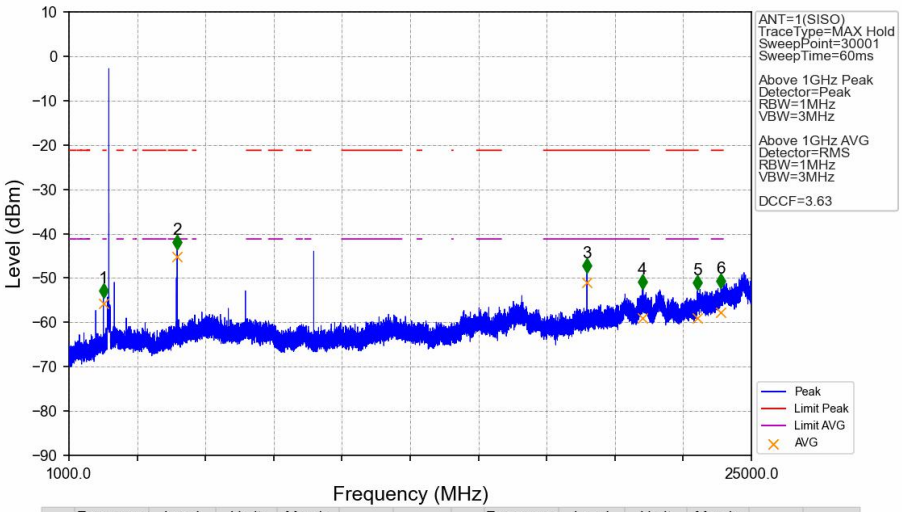
1M_HCH_2480MHz_Ant1_NTNV



A.7 Restrict Band

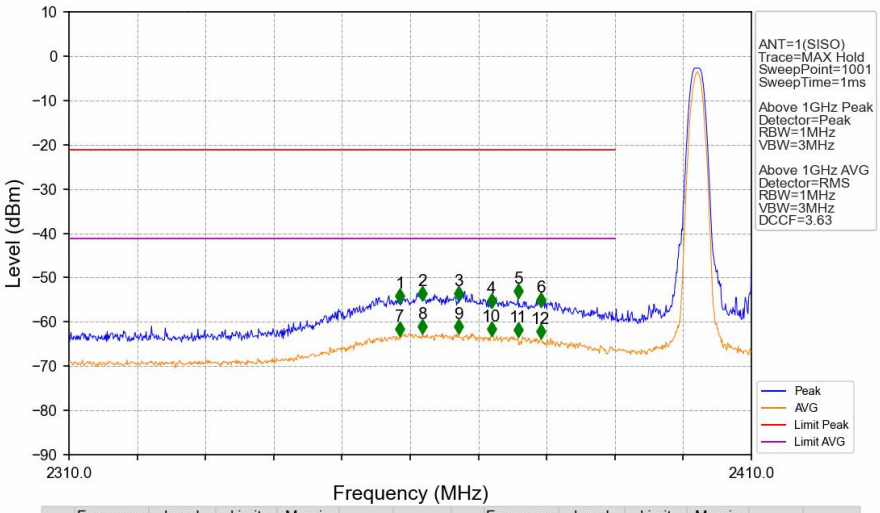
Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
1M	SISO	2402	1	Refer To Test Graph		Pass
		2440	1	Refer To Test Graph		Pass
		2480	1	Refer To Test Graph		Pass

1M_LCH_2402MHz_Ant1_NTNV



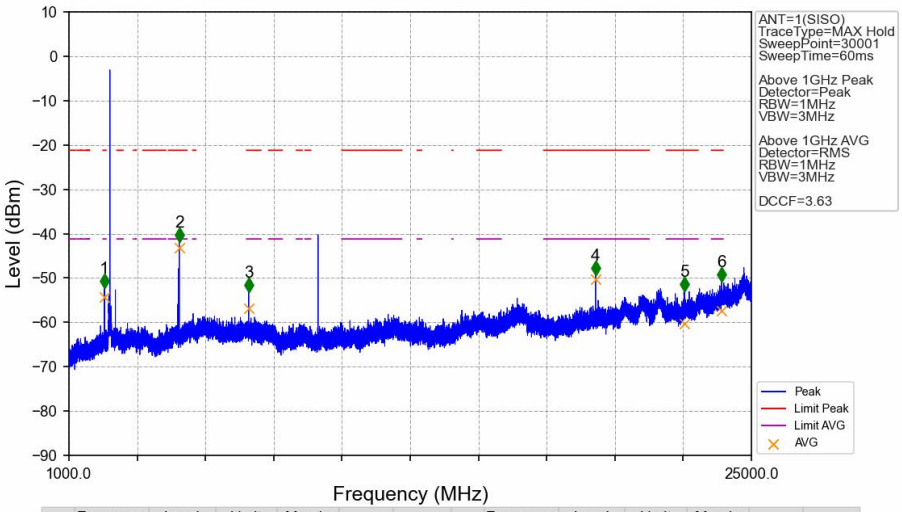
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2210.4	-54.39	-21.20	33.19	Pass	Peak	7	2210.4	-55.80	-41.20	14.60	Pass	AVG
2	4804	-43.44	-21.20	22.24	Pass	Peak	8	4804	-45.16	-41.20	3.96	Pass	AVG
3	19216	-48.81	-21.20	27.61	Pass	Peak	9	19216	-50.95	-41.20	9.75	Pass	AVG
4	21160	-52.34	-21.20	31.14	Pass	Peak	10	21160	-59.01	-41.20	17.81	Pass	AVG
5	23108	-52.58	-21.20	31.38	Pass	Peak	11	23108	-59.11	-41.20	17.91	Pass	AVG
6	23928	-52.19	-21.20	30.99	Pass	Peak	12	23928	-57.84	-41.20	16.64	Pass	AVG

1M_LCH_2402MHz_Ant1_NTNV



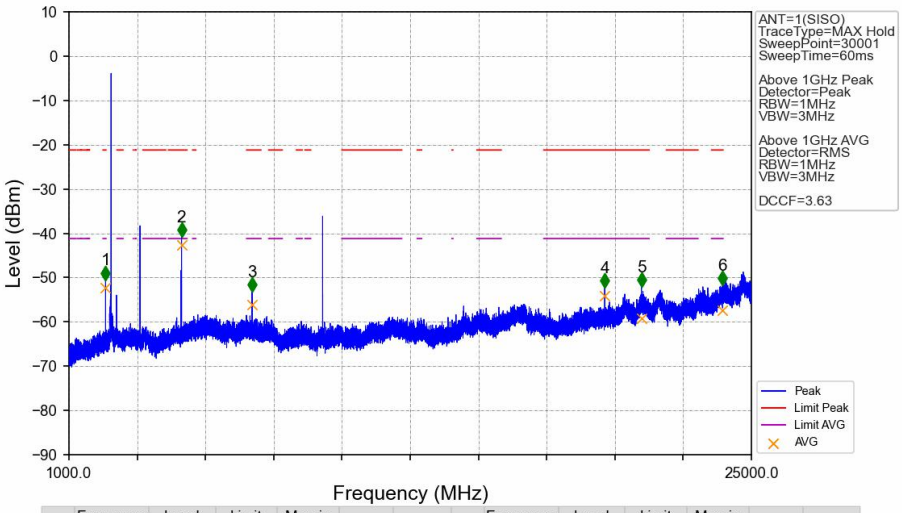
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2358.500	-55.70	-21.20	34.50	Pass	Peak	7	2358.500	-63.10	-41.20	21.90	Pass	AVG
2	2361.800	-55.20	-21.20	34.00	Pass	Peak	8	2361.800	-62.58	-41.20	21.38	Pass	AVG
3	2367.100	-55.13	-21.20	33.93	Pass	Peak	9	2367.100	-62.61	-41.20	21.41	Pass	AVG
4	2371.900	-56.85	-21.20	35.65	Pass	Peak	10	2371.900	-63.18	-41.20	21.98	Pass	AVG
5	2375.800	-54.56	-21.20	33.36	Pass	Peak	11	2375.800	-63.29	-41.20	22.09	Pass	AVG
6	2379.100	-56.60	-21.20	35.40	Pass	Peak	12	2379.100	-63.63	-41.20	22.43	Pass	AVG

1M_MCH_2440MHz_Ant1_NTNV



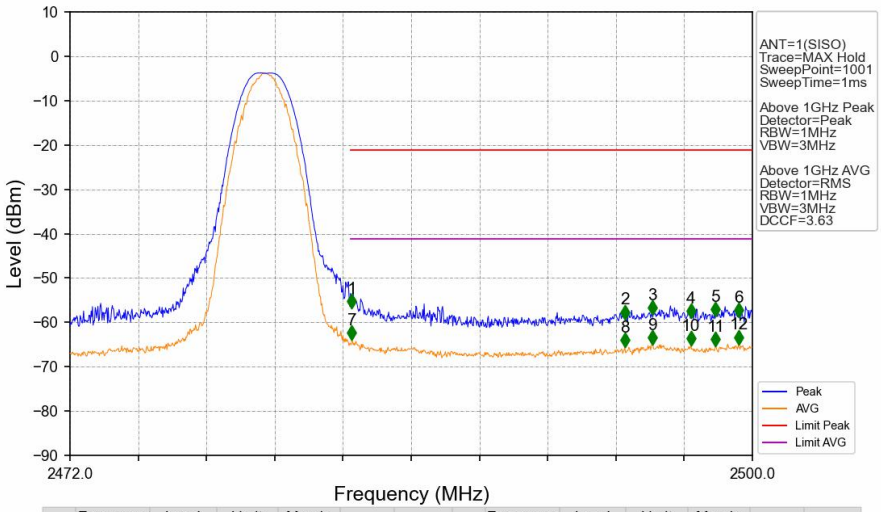
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2248	-52.25	-21.20	31.05	Pass	Peak	7	2248	-54.33	-41.20	13.13	Pass	AVG
2	4880	-41.93	-21.20	20.73	Pass	Peak	8	4880	-43.13	-41.20	1.93	Pass	AVG
3	7320.8	-53.21	-21.20	32.01	Pass	Peak	9	7320.8	-56.82	-41.20	15.62	Pass	AVG
4	19520	-49.34	-21.20	28.14	Pass	Peak	10	19520	-50.23	-41.20	9.03	Pass	AVG
5	22645.6	-53.02	-21.20	31.82	Pass	Peak	11	22645.6	-60.31	-41.20	19.11	Pass	AVG
6	23954.4	-50.74	-21.20	29.54	Pass	Peak	12	23954.4	-57.46	-41.20	16.26	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	2288	-50.51	-21.20	29.31	Pass	Peak	7	2288	-52.30	-41.20	11.10	Pass	AVG
2	4960	-40.73	-21.20	19.53	Pass	Peak	8	4960	-42.56	-41.20	1.36	Pass	AVG
3	7440	-53.16	-21.20	31.96	Pass	Peak	9	7440	-56.16	-41.20	14.96	Pass	AVG
4	19840.8	-52.31	-21.20	31.11	Pass	Peak	10	19840.8	-54.03	-41.20	12.83	Pass	AVG
5	21132.8	-52.06	-21.20	30.86	Pass	Peak	11	21132.8	-59.14	-41.20	17.94	Pass	AVG
6	23984	-51.76	-21.20	30.56	Pass	Peak	12	23984	-57.32	-41.20	16.12	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	2483.564	-56.86	-21.20	35.66	Pass	Peak	7	2483.564	-63.98	-41.20	22.78	Pass	AVG
2	2494.764	-59.25	-21.20	38.05	Pass	Peak	8	2494.764	-65.52	-41.20	24.32	Pass	AVG
3	2495.884	-58.30	-21.20	37.10	Pass	Peak	9	2495.884	-64.99	-41.20	23.79	Pass	AVG
4	2497.480	-58.93	-21.20	37.73	Pass	Peak	10	2497.480	-65.19	-41.20	23.99	Pass	AVG
5	2498.488	-58.57	-21.20	37.37	Pass	Peak	11	2498.488	-65.38	-41.20	24.18	Pass	AVG
6	2499.440	-58.73	-21.20	37.53	Pass	Peak	12	2499.440	-64.90	-41.20	23.70	Pass	AVG