



## Appendix B

### RF Test Data for BT LE(Conducted Measurement)

Product Name: Electric Scooter for Kids

Test Model: S7

#### Environmental Conditions

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

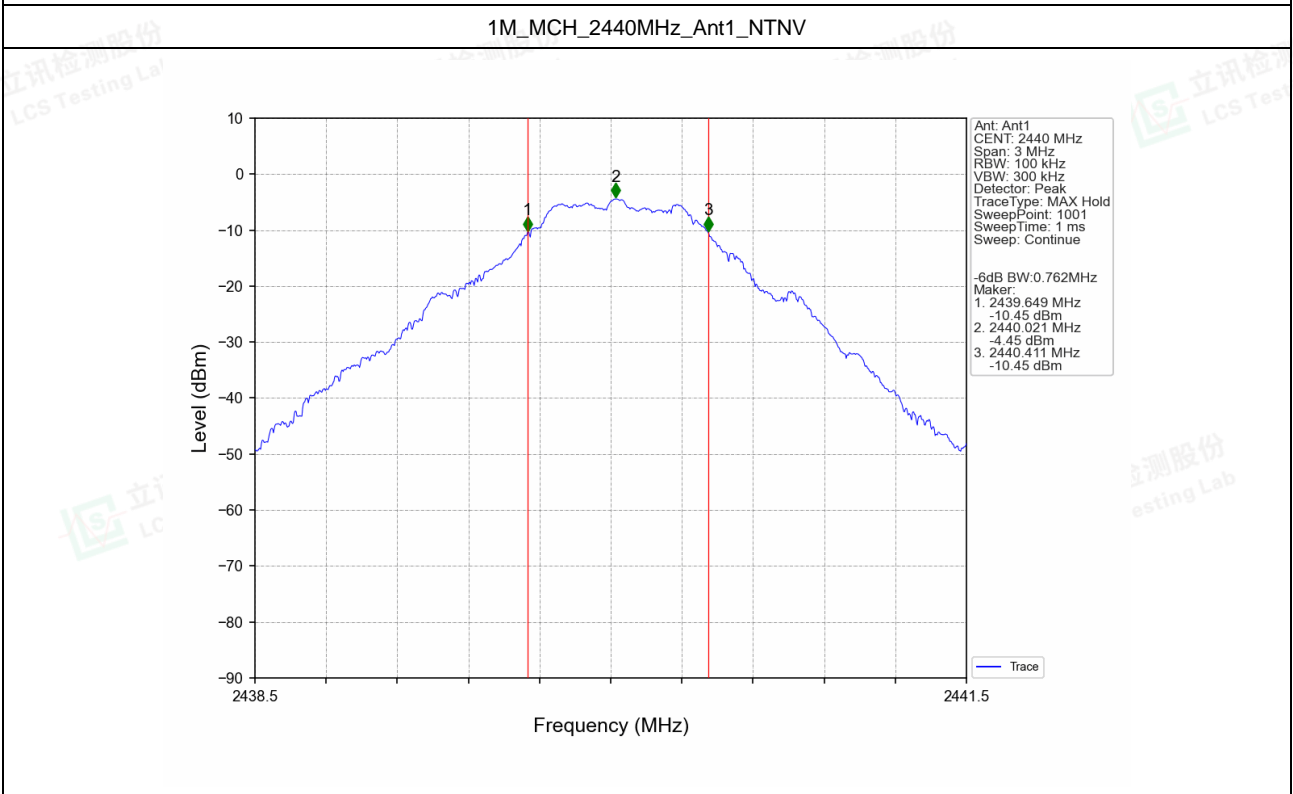
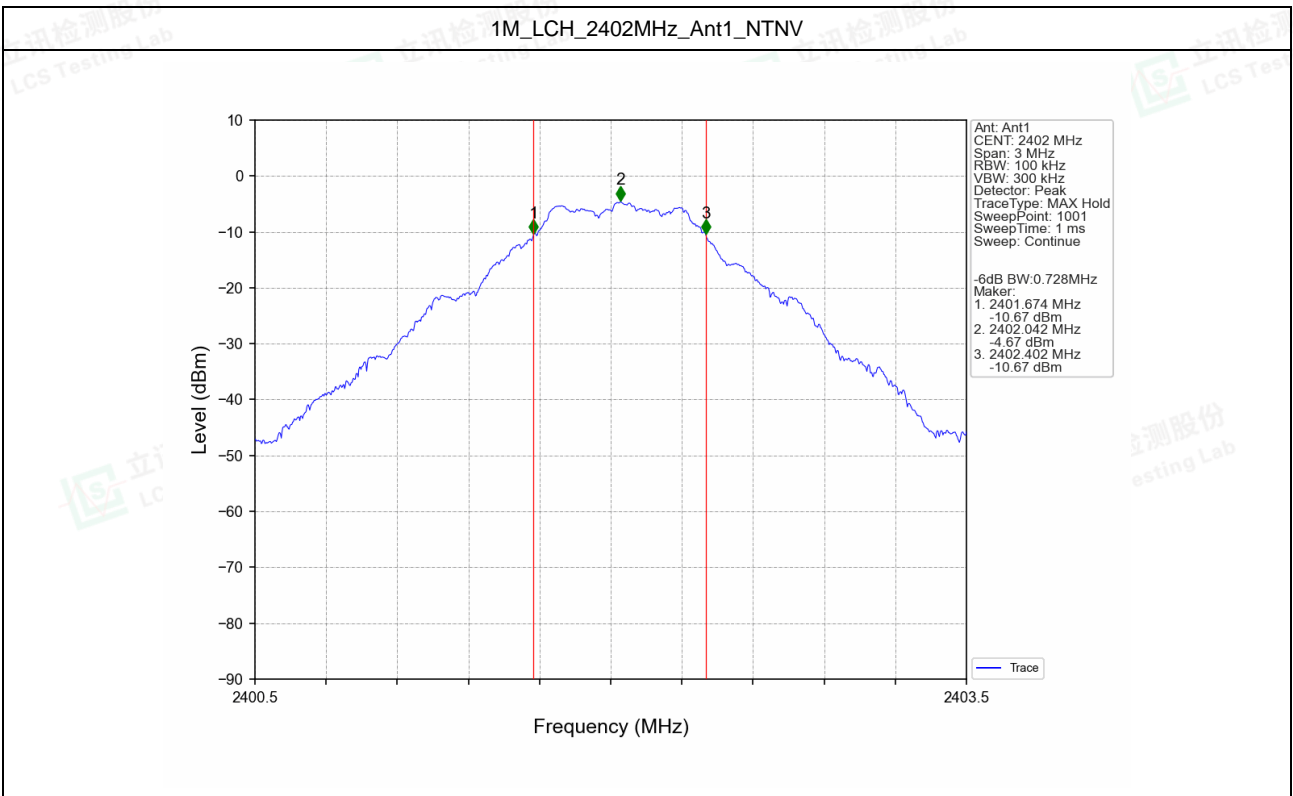




### B.1 -6dB Bandwidth

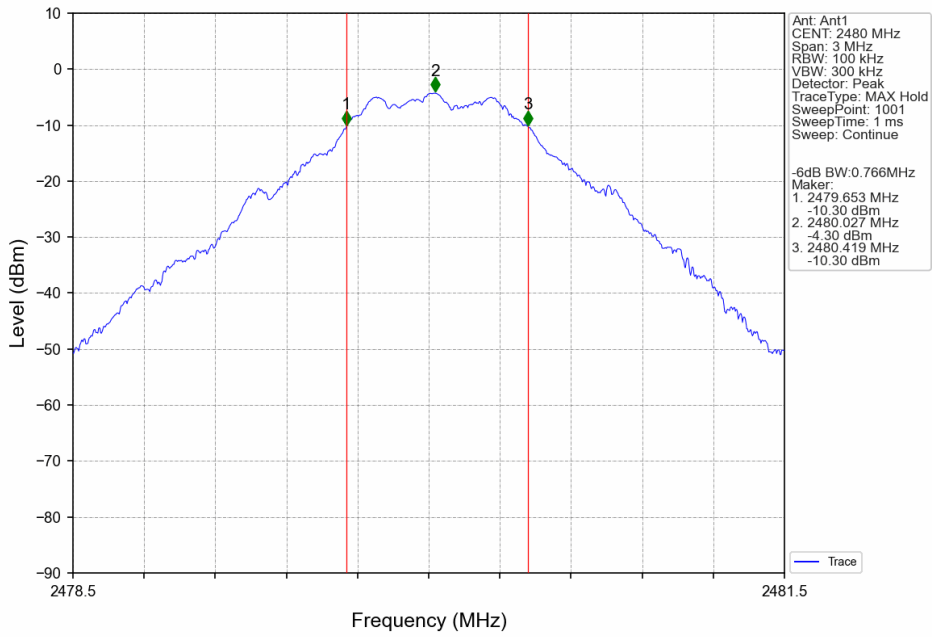
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.728	$\geq 0.5$	Pass
		2440	1	0.762	$\geq 0.5$	Pass
		2480	1	0.766	$\geq 0.5$	Pass
2M	SISO	2402	1	1.203	$\geq 0.5$	Pass
		2440	1	1.174	$\geq 0.5$	Pass
		2480	1	1.175	$\geq 0.5$	Pass



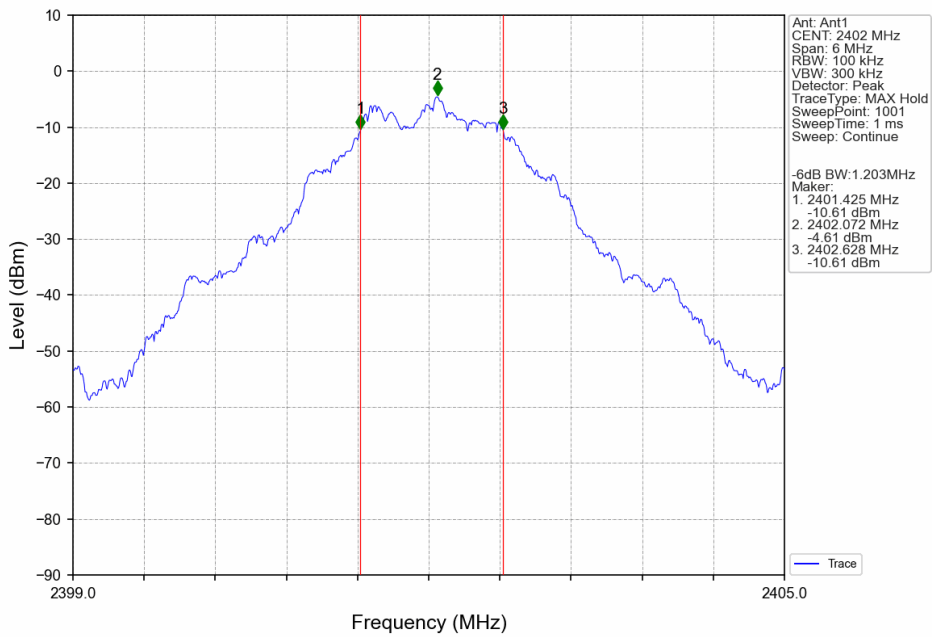




1M\_HCH\_2480MHz\_Ant1\_NTNV

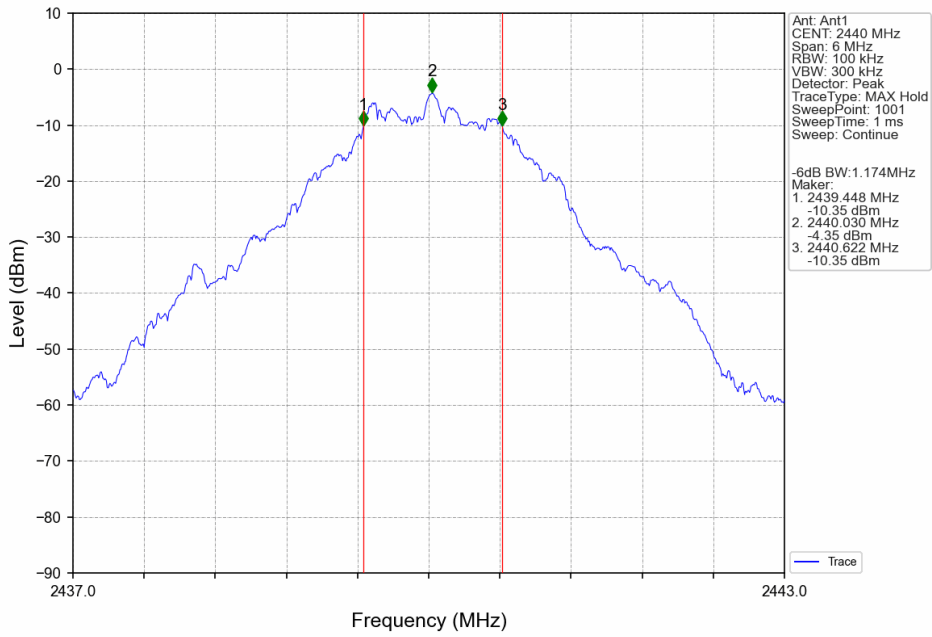


2M\_LCH\_2402MHz\_Ant1\_NTNV

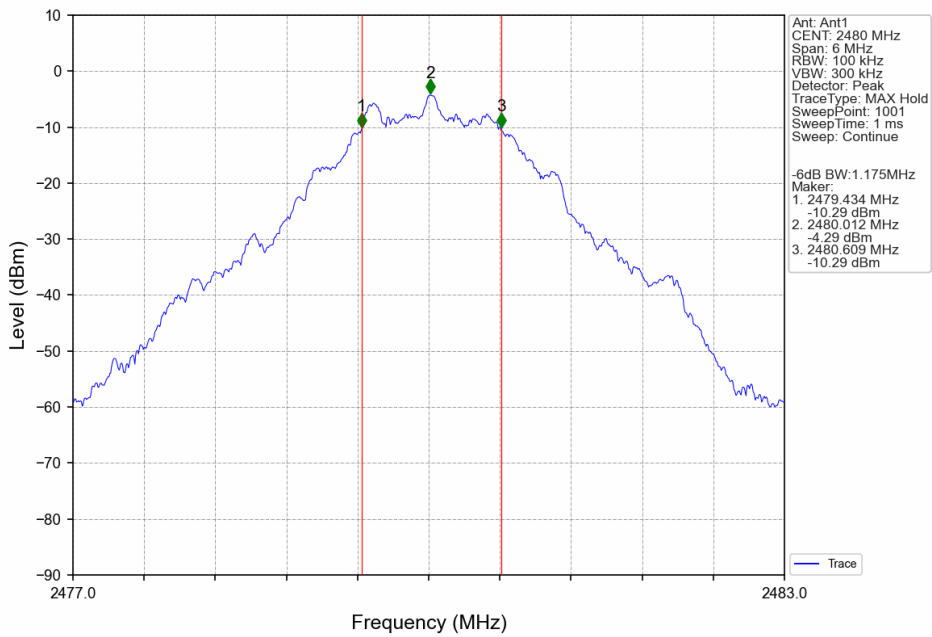




2M\_MCH\_2440MHz\_Ant1\_NTNV



2M\_HCH\_2480MHz\_Ant1\_NTNV

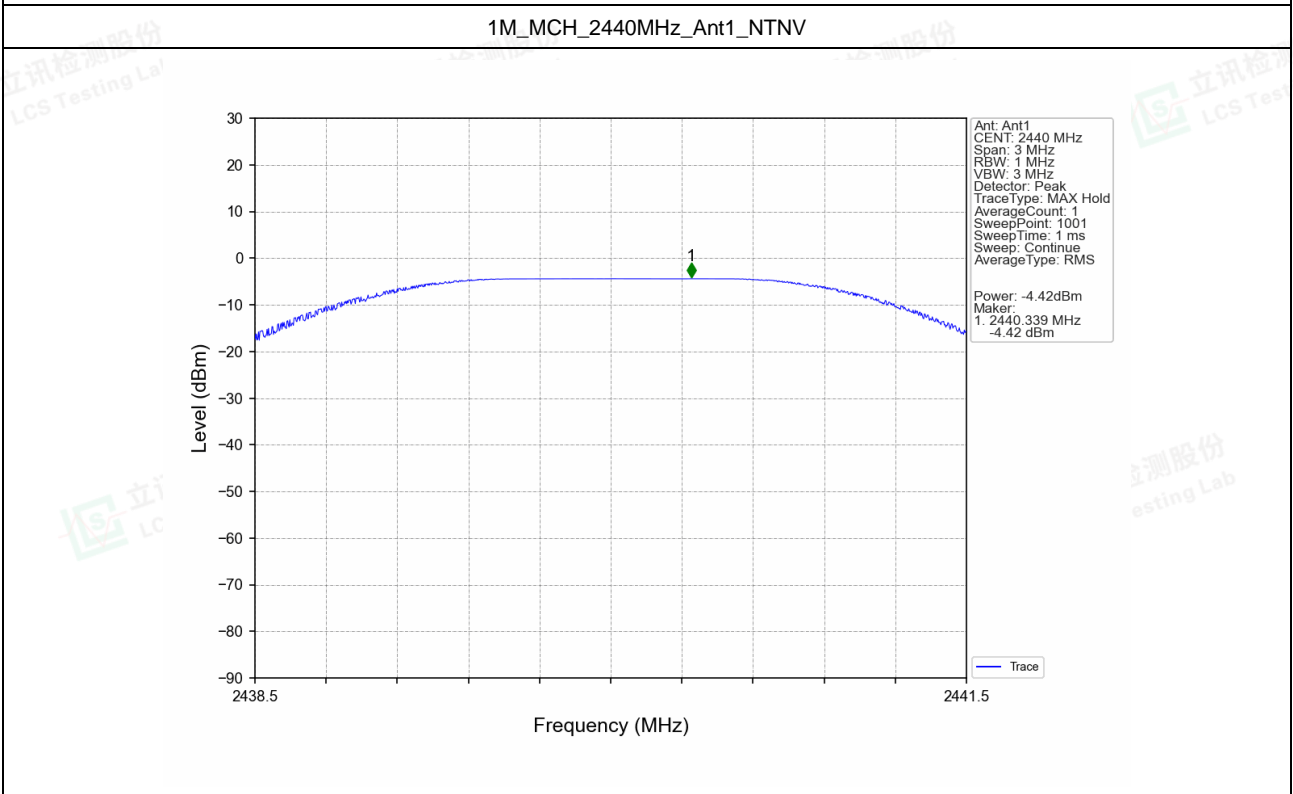
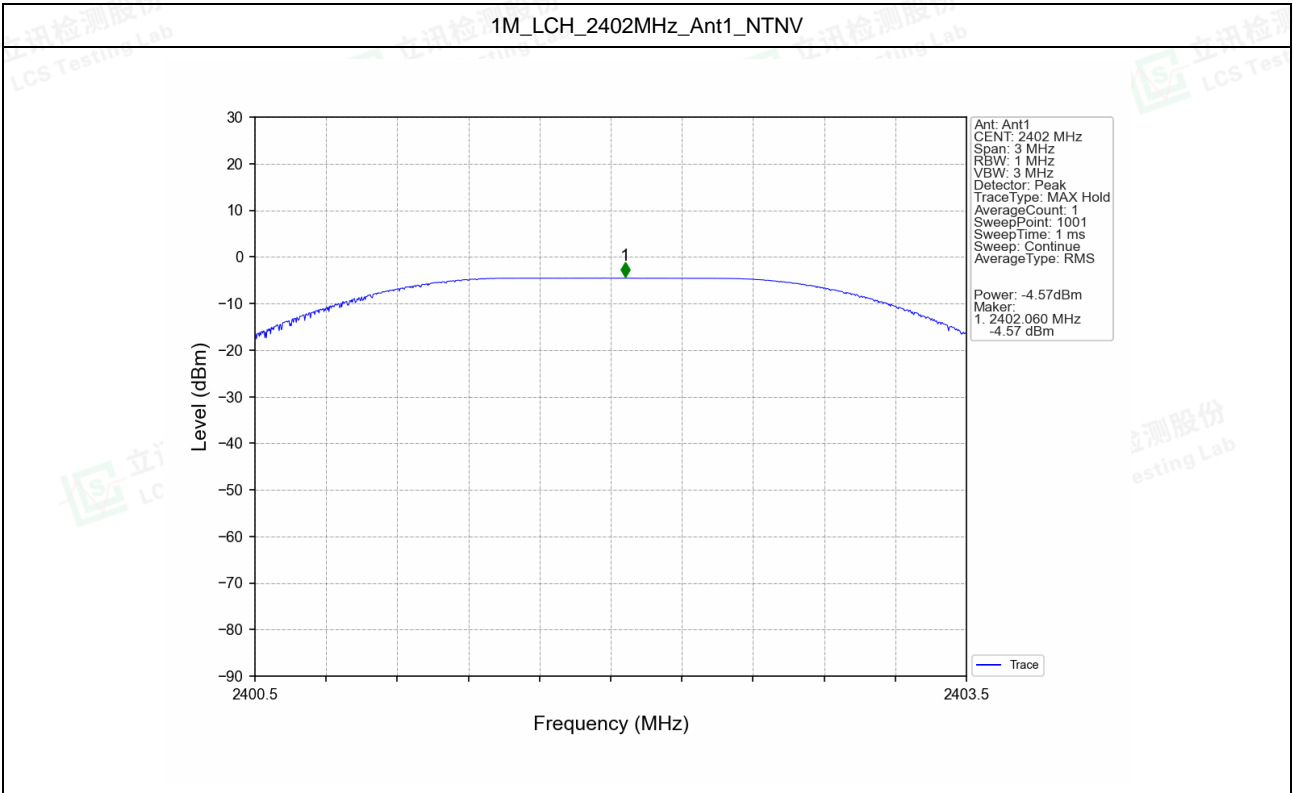




## B.2 Maximum Peak Conducted Output Power

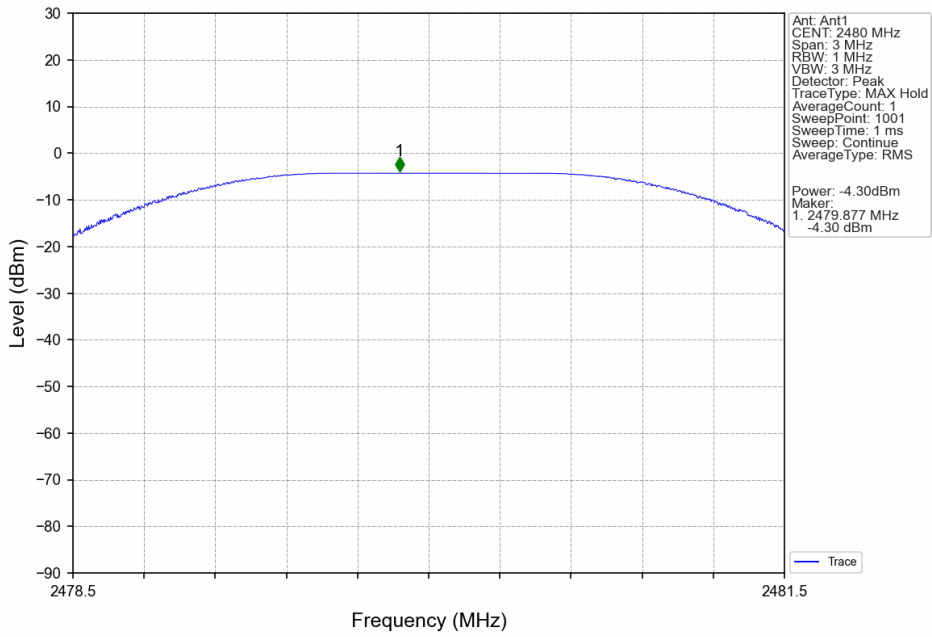
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-4.57	<=30	Pass
		2440	-4.42	<=30	Pass
		2480	-4.30	<=30	Pass
2M	SISO	2402	-4.53	<=30	Pass
		2440	-4.39	<=30	Pass
		2480	-4.25	<=30	Pass



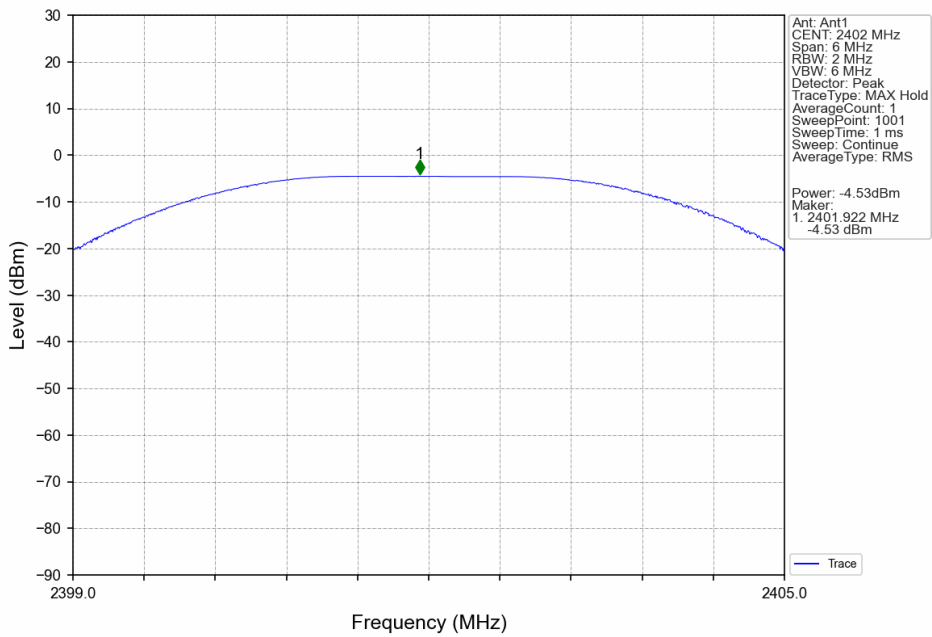




1M\_HCH\_2480MHz\_Ant1\_NTNV



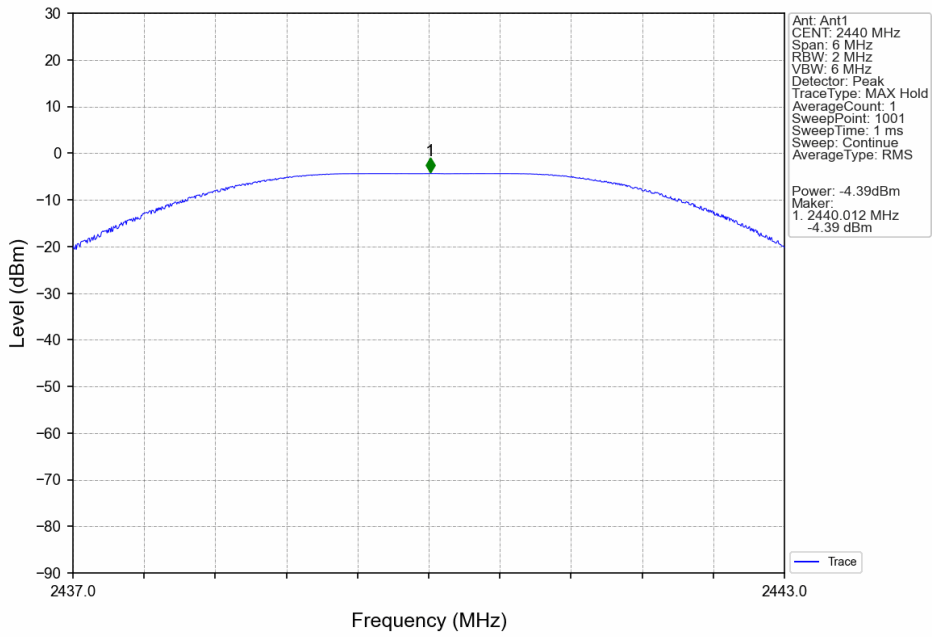
2M\_LCH\_2402MHz\_Ant1\_NTNV



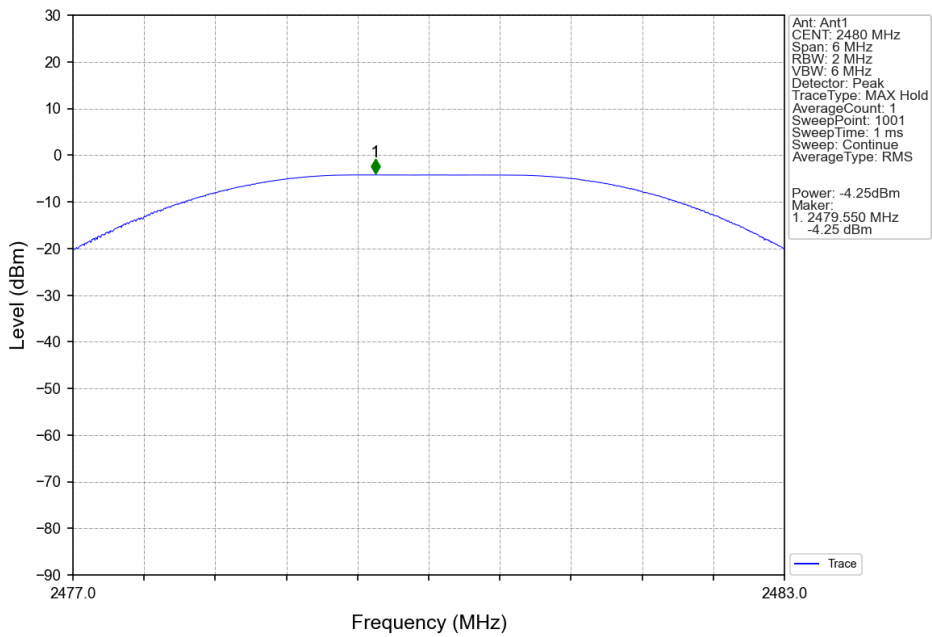




2M\_MCH\_2440MHz\_Ant1\_NTNV



2M\_HCH\_2480MHz\_Ant1\_NTNV

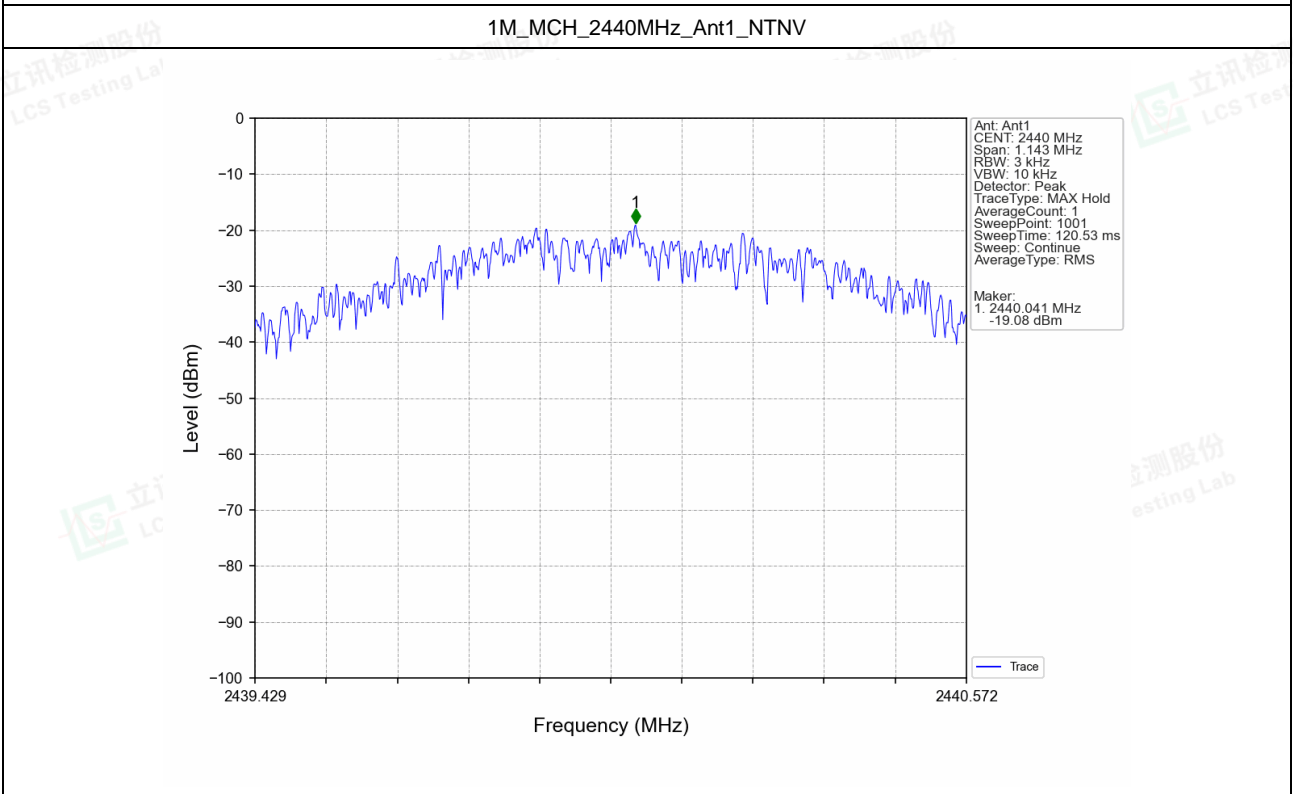
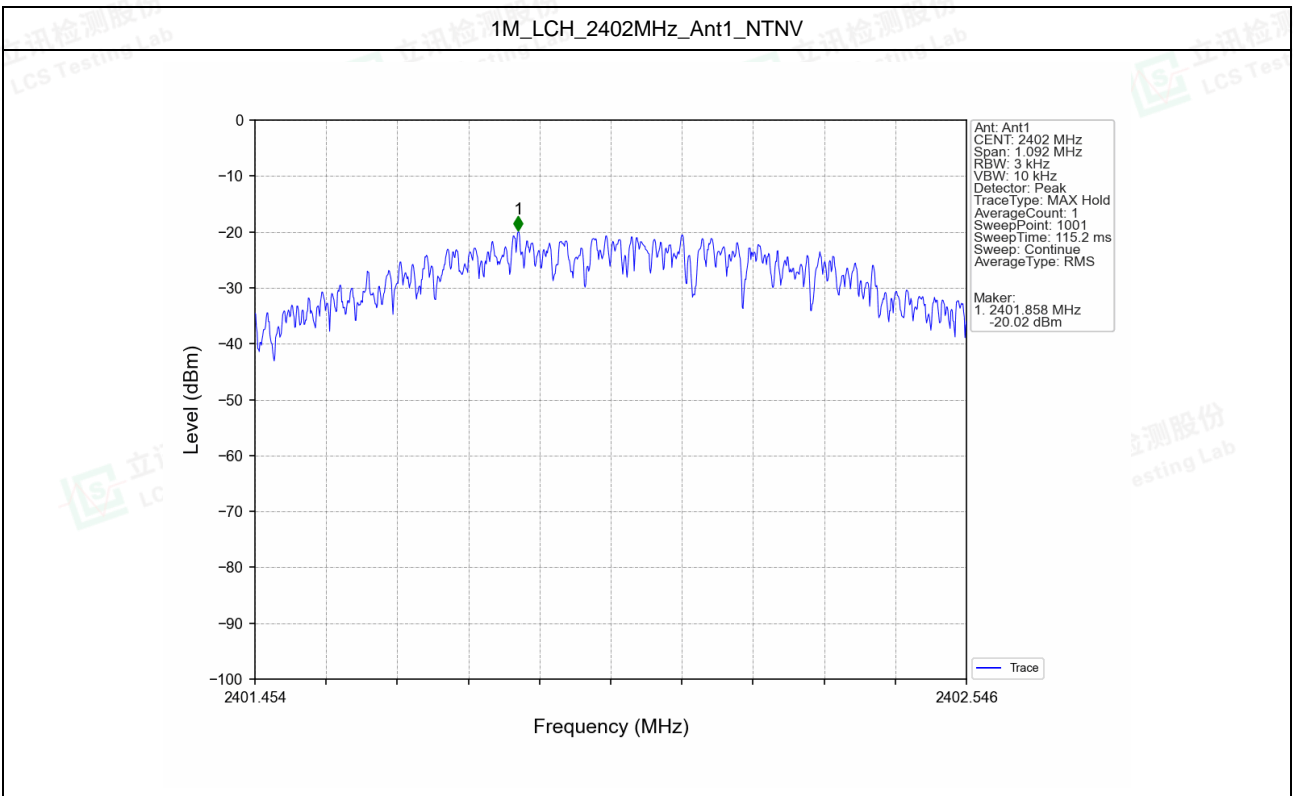


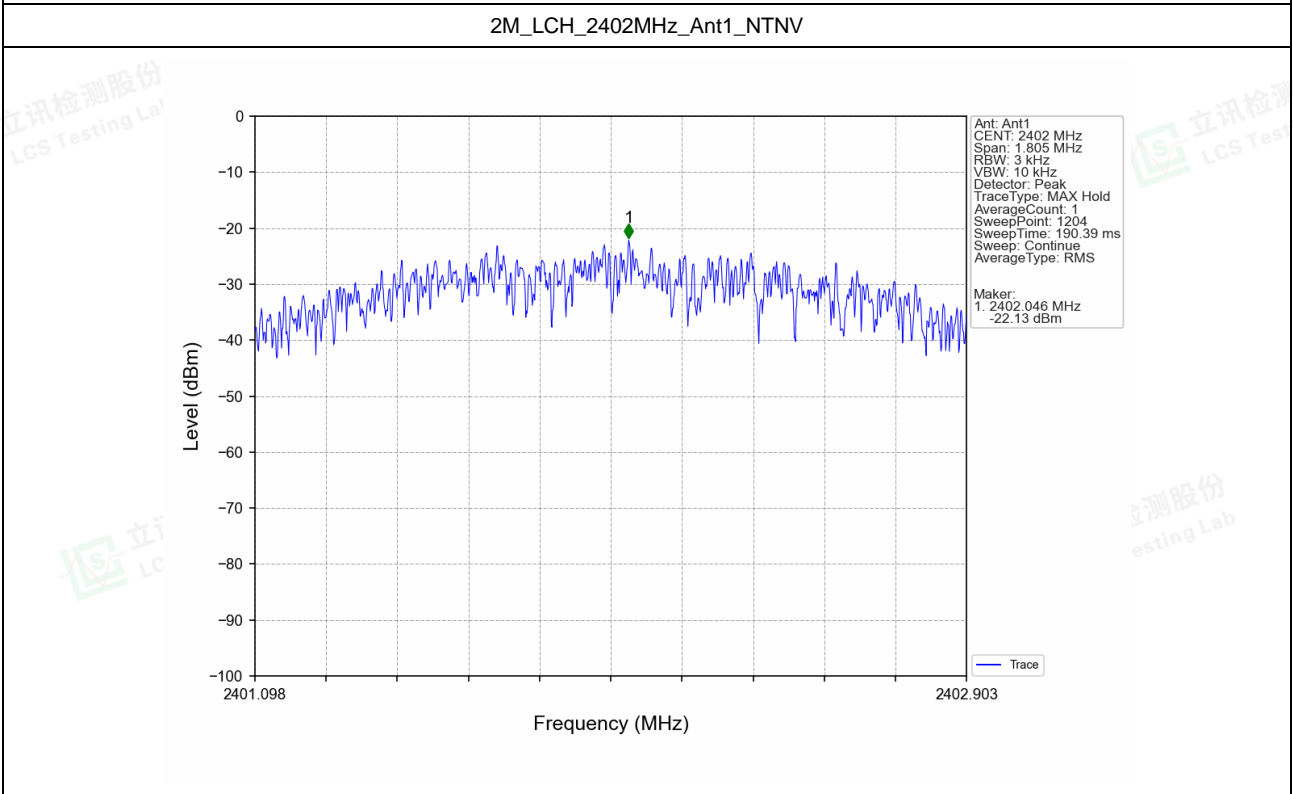
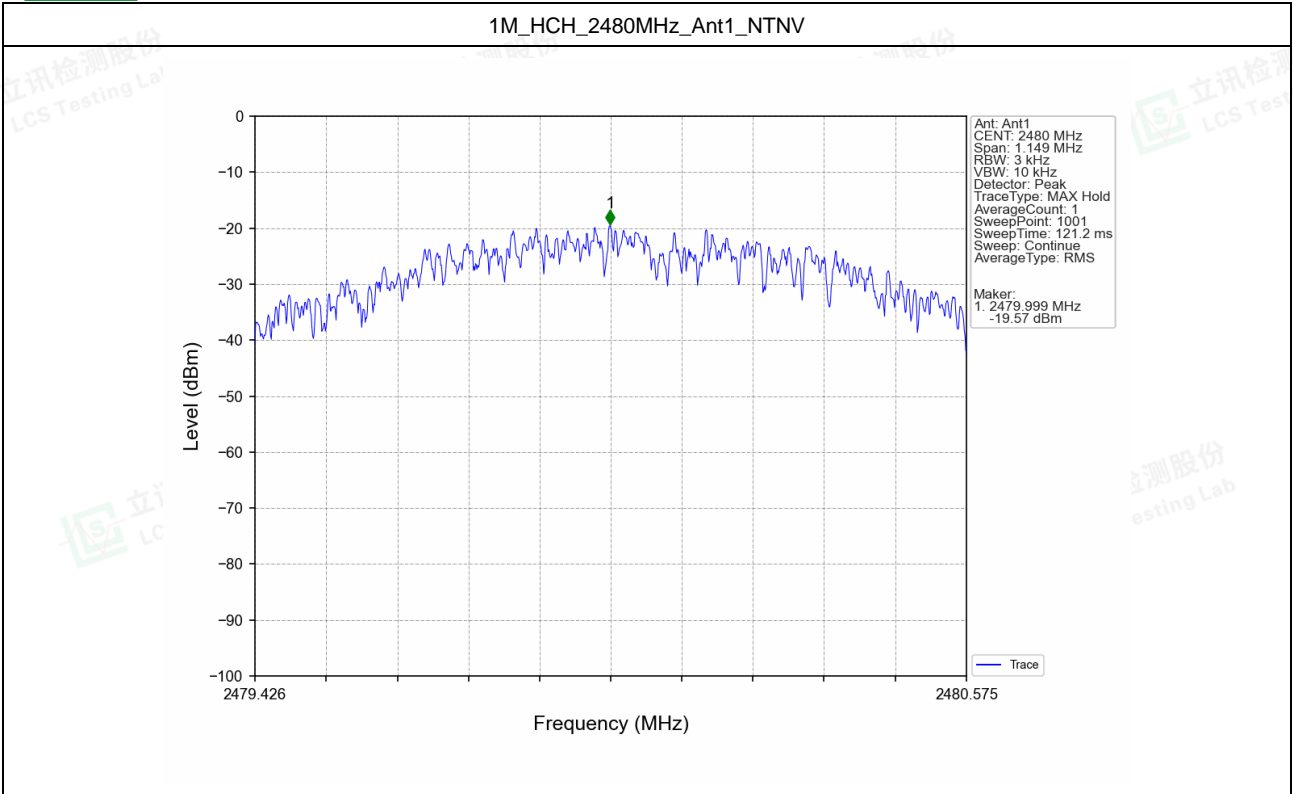


### B.3 Maximum Power Spectral Density Level

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-20.02	<=8	Pass
		2440	-19.08	<=8	Pass
		2480	-19.57	<=8	Pass
2M	SISO	2402	-22.13	<=8	Pass
		2440	-21.87	<=8	Pass
		2480	-21.11	<=8	Pass

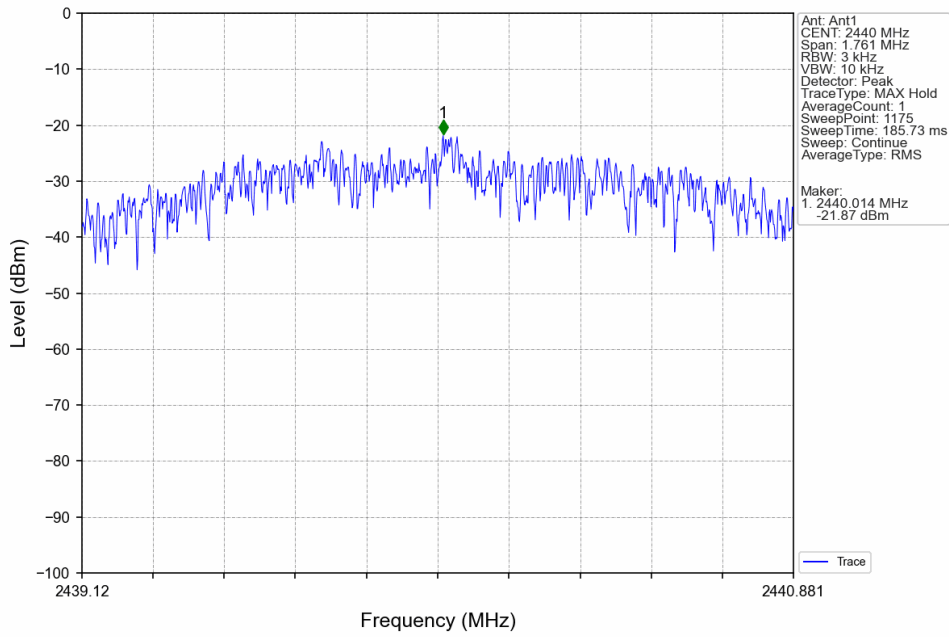




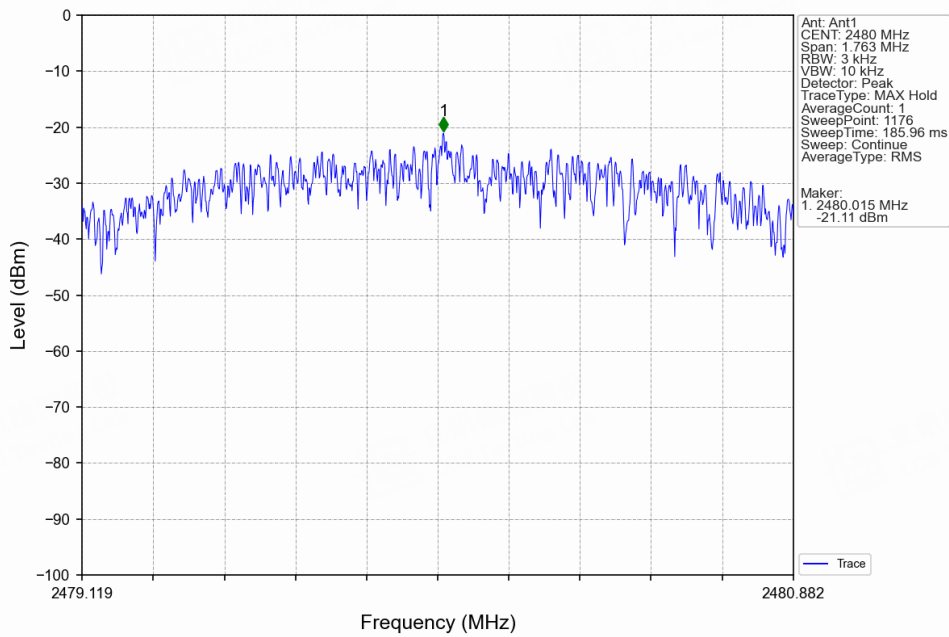




2M\_MCH\_2440MHz\_Ant1\_NTNV



2M\_HCH\_2480MHz\_Ant1\_NTNV



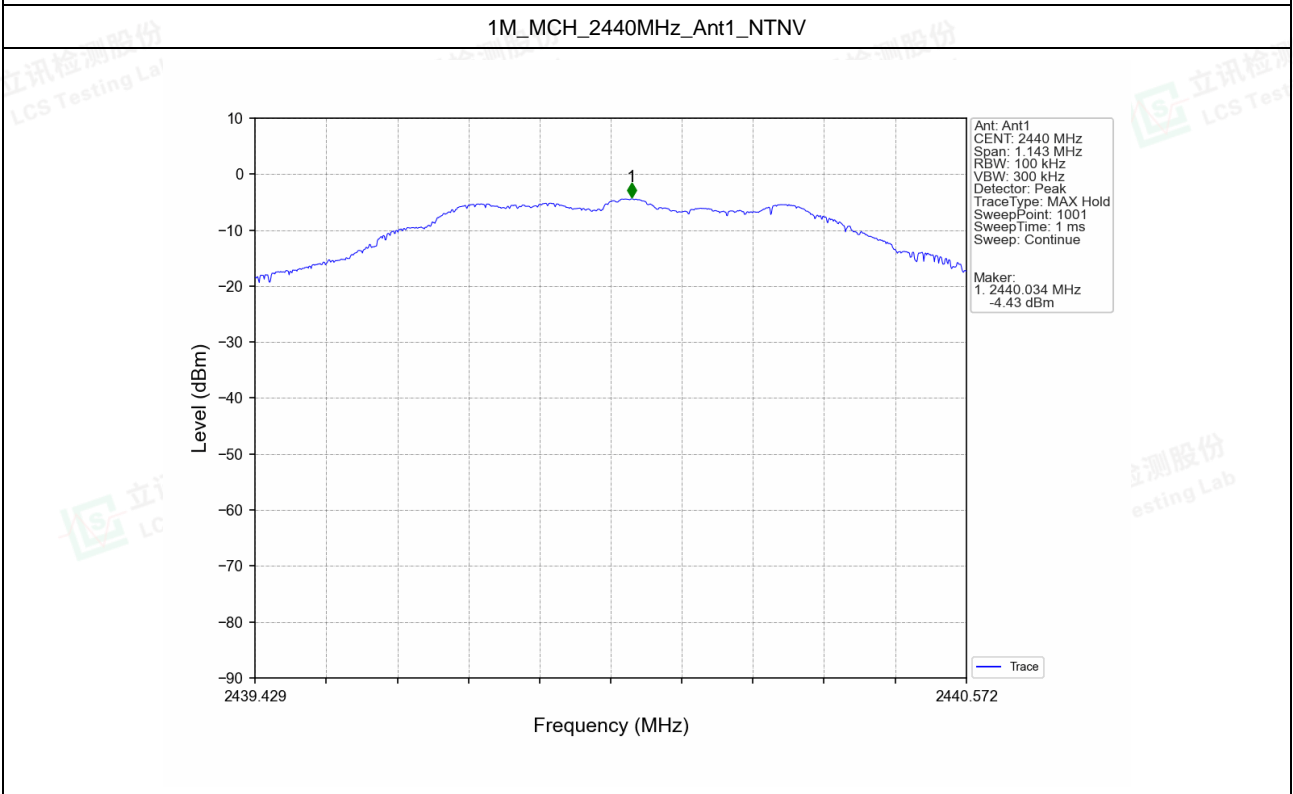
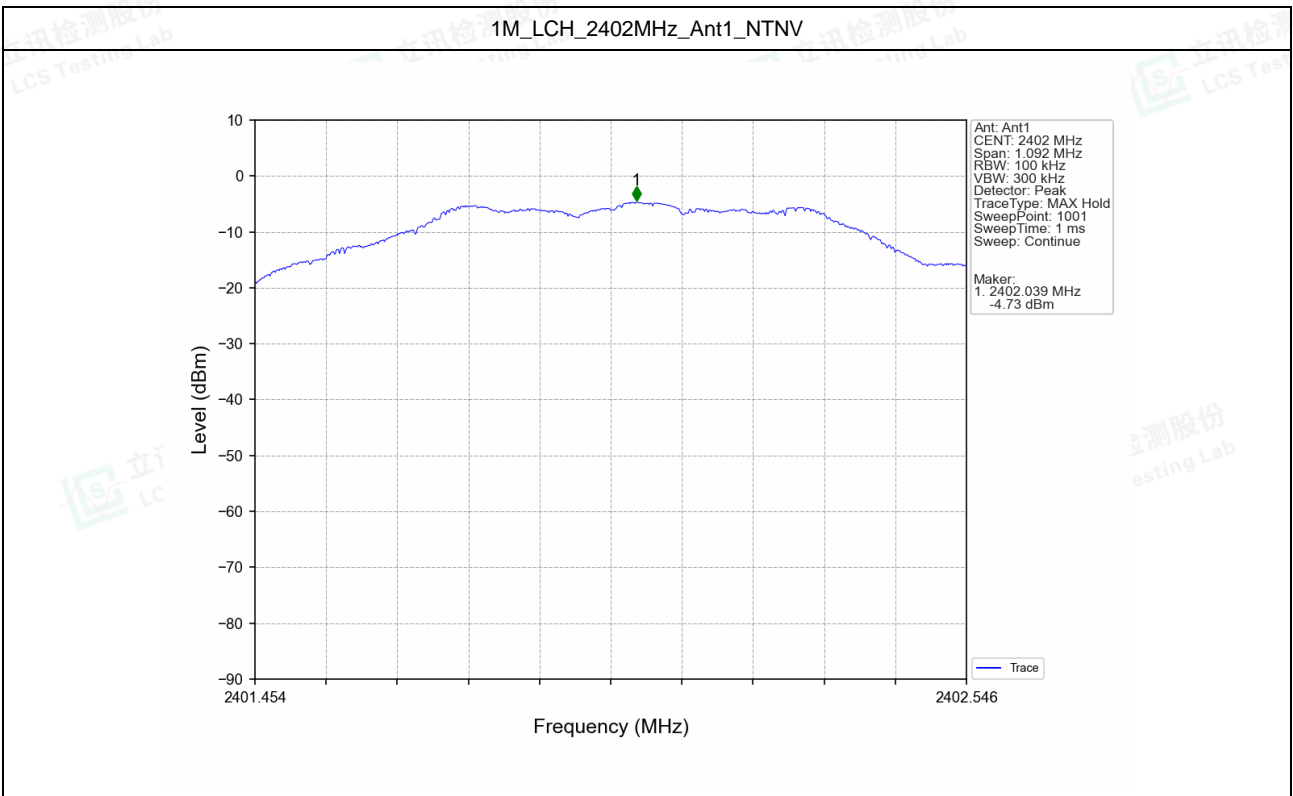


### B.4 Band Edge

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-4.33	-24.33	Pass
		2440	1	-4.33	-24.33	Pass
		2480	1	-4.33	-24.33	Pass
2M	SISO	2402	1	-4.30	-24.30	Pass
		2440	1	-4.30	-24.30	Pass
		2480	1	-4.30	-24.30	Pass

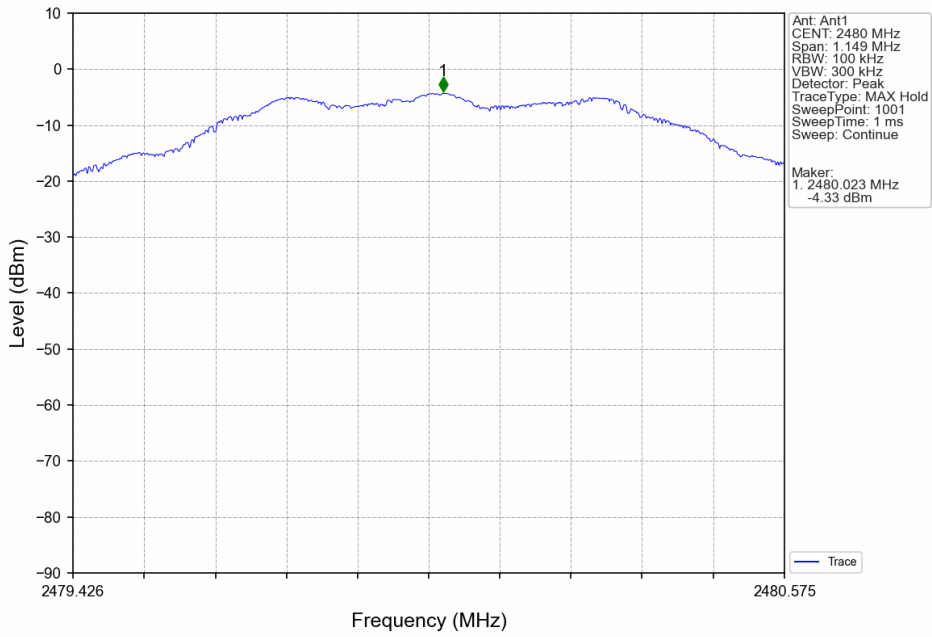
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



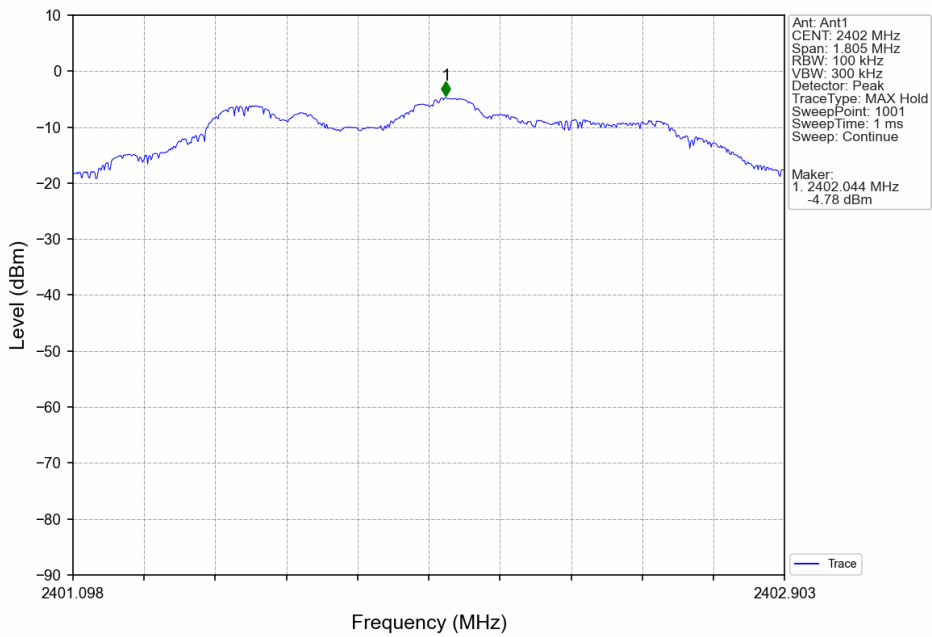




1M\_HCH\_2480MHz\_Ant1\_NTNV



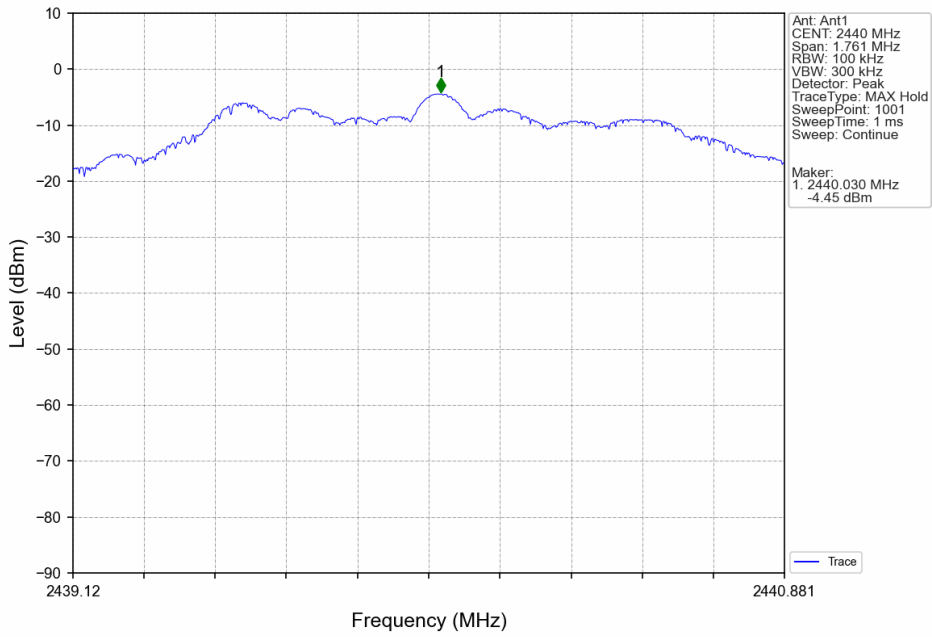
2M\_LCH\_2402MHz\_Ant1\_NTNV



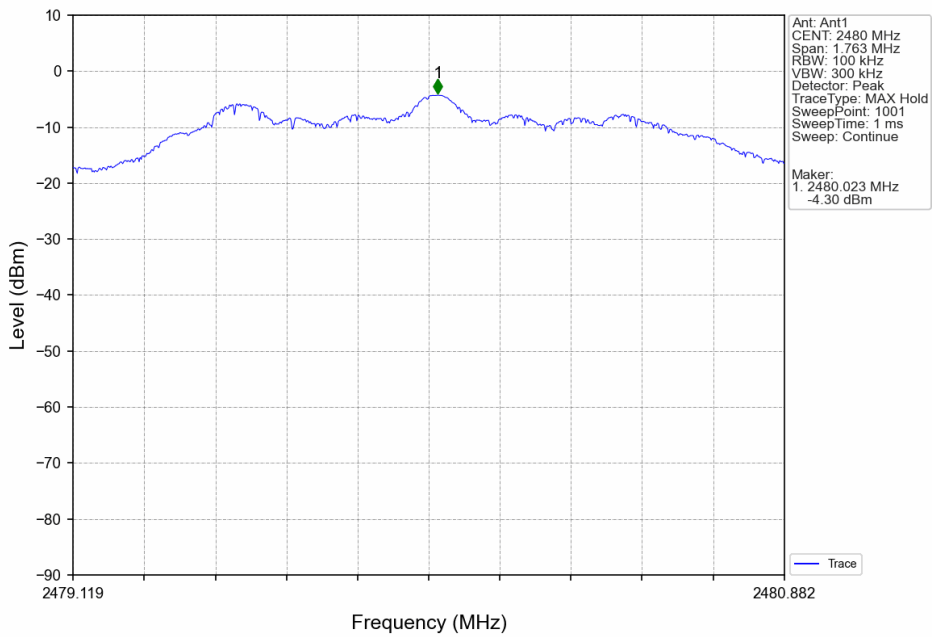


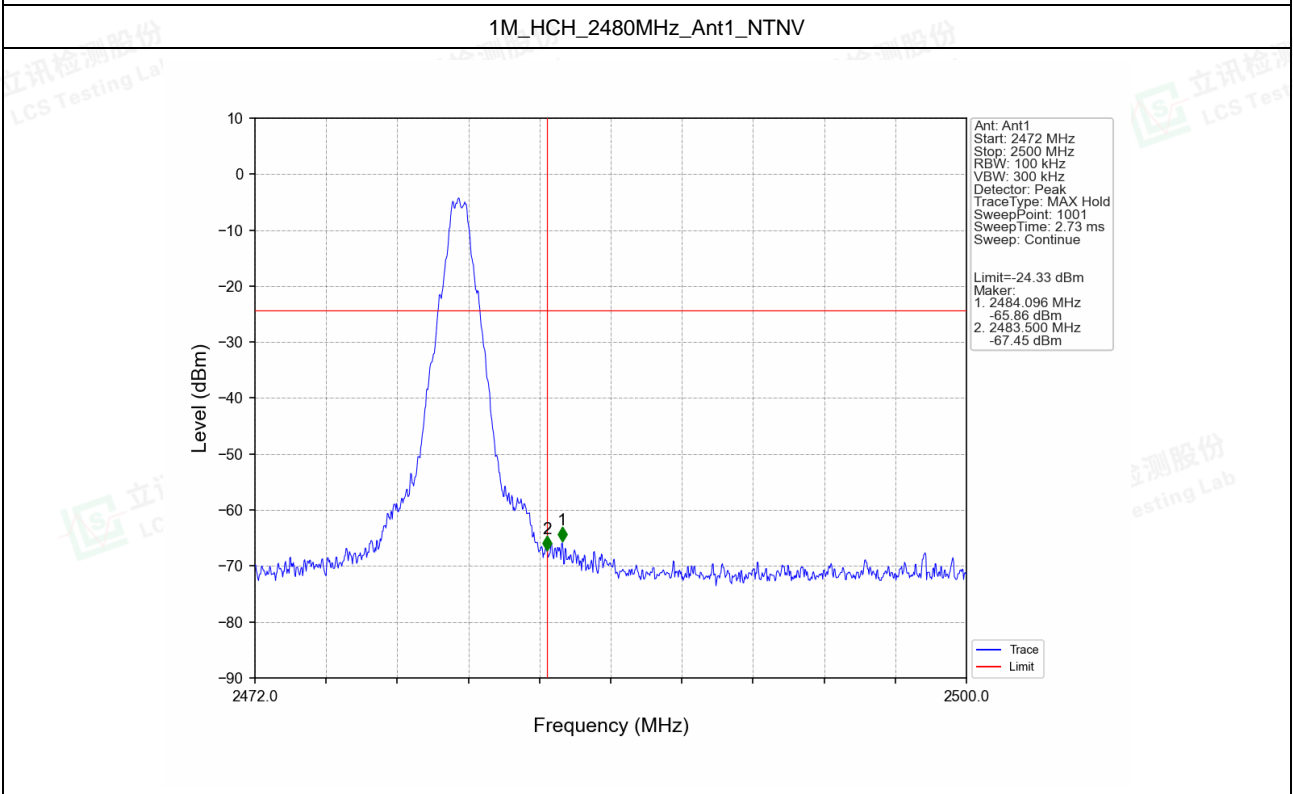
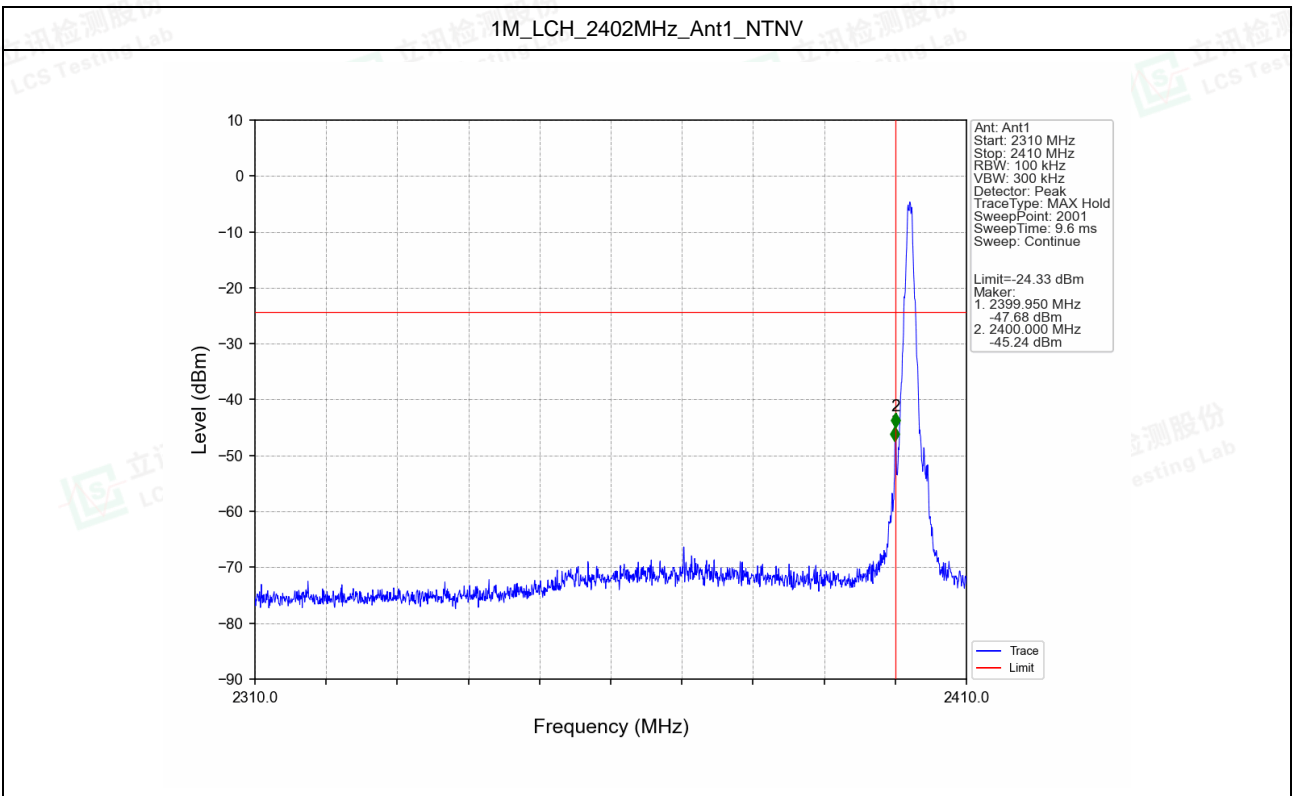


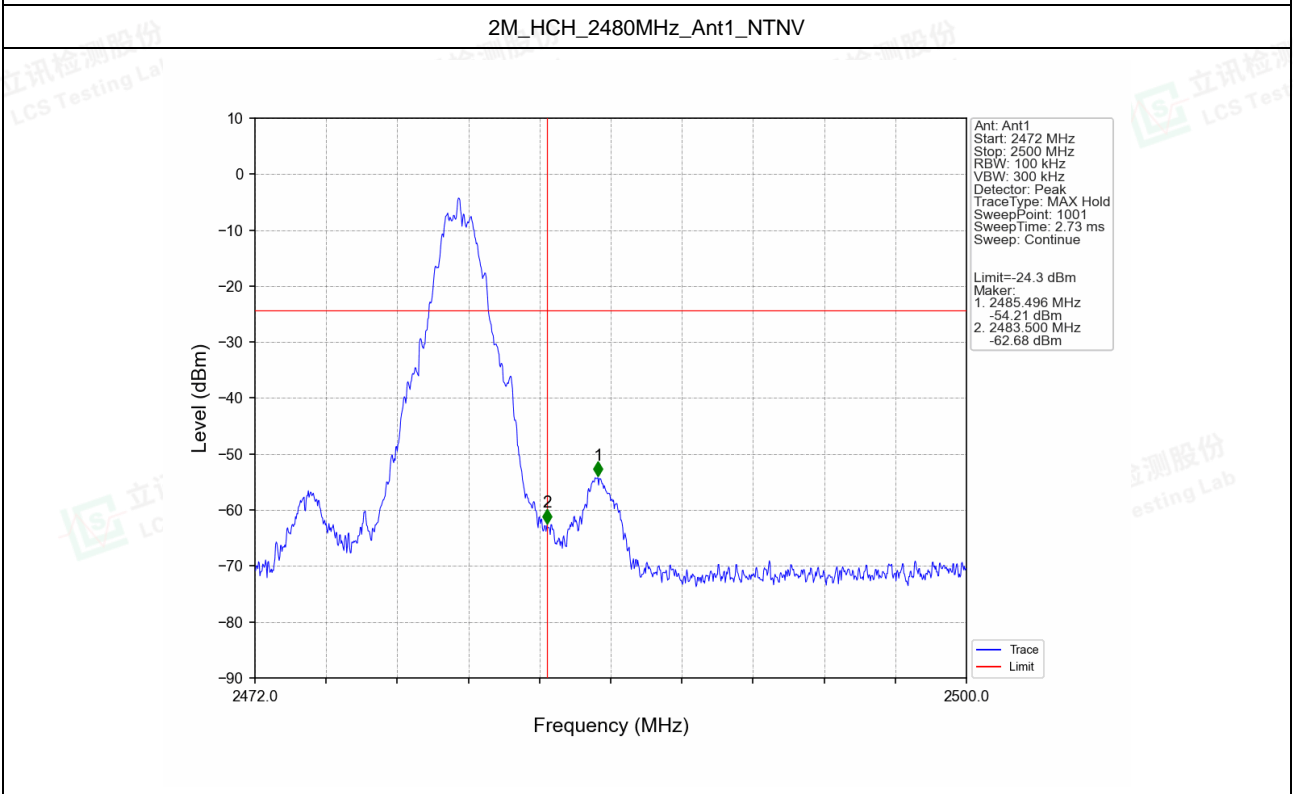
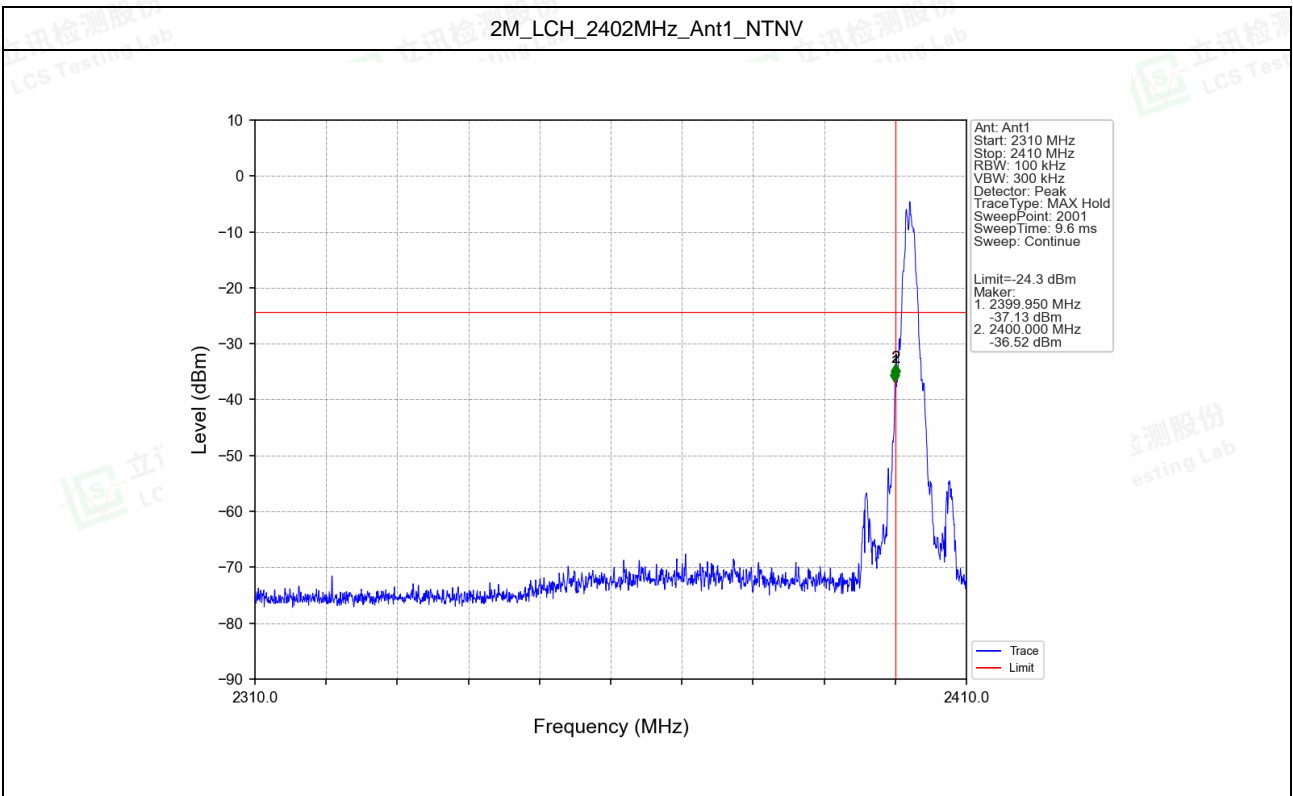
2M\_MCH\_2440MHz\_Ant1\_NTNV



2M\_HCH\_2480MHz\_Ant1\_NTNV







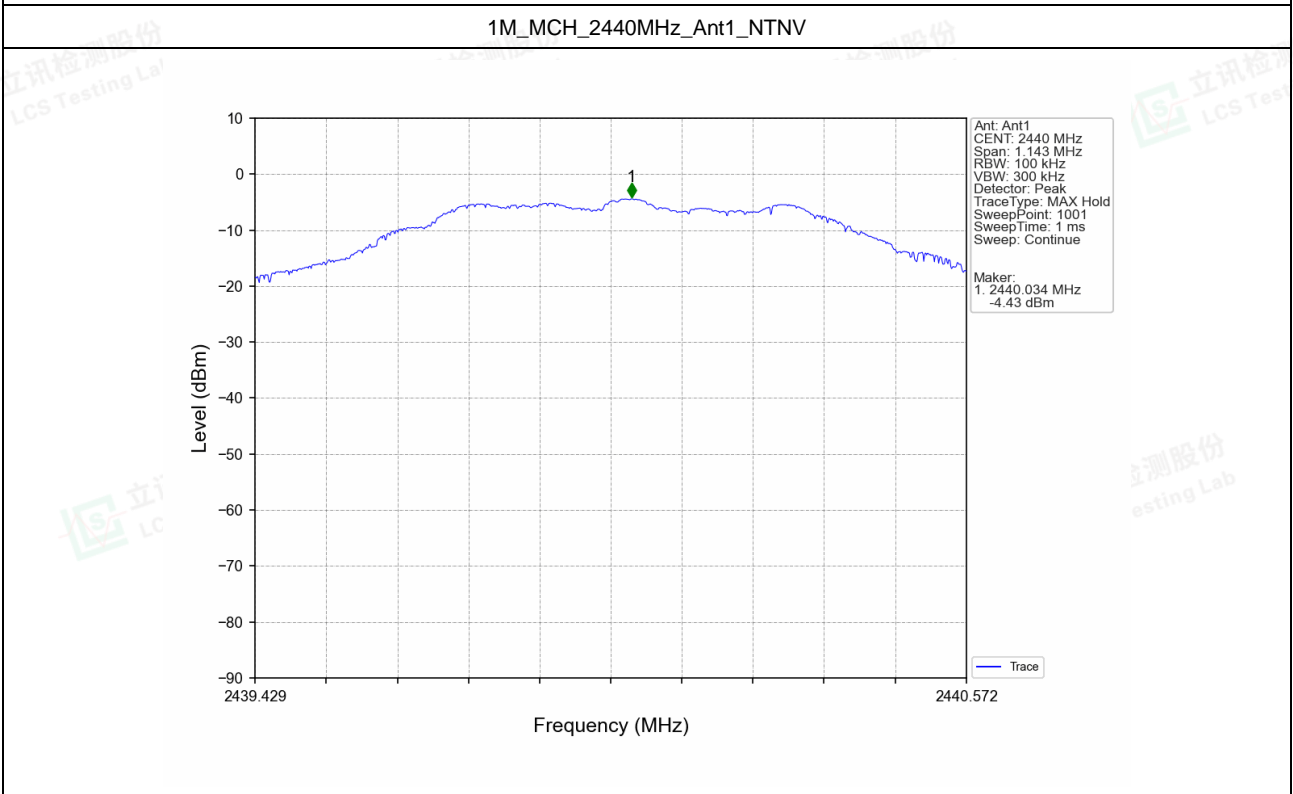
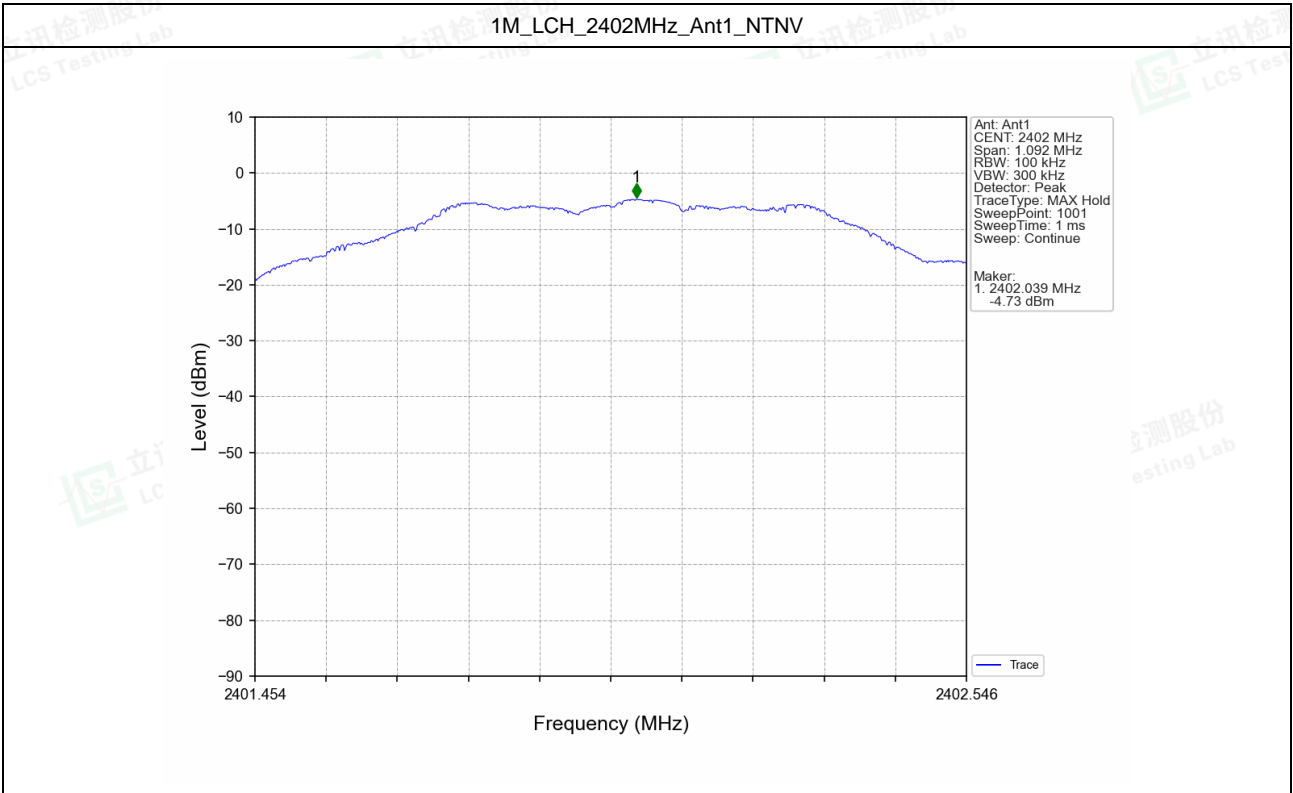


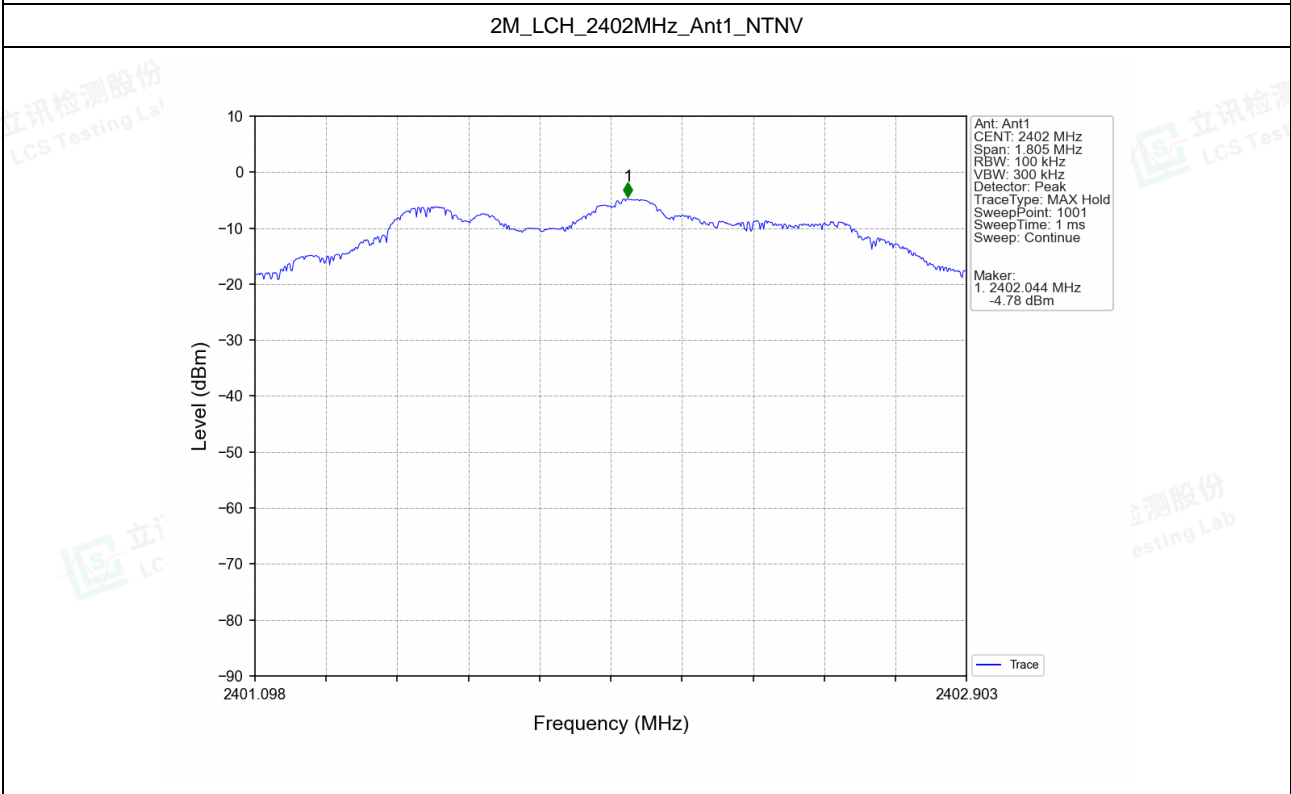
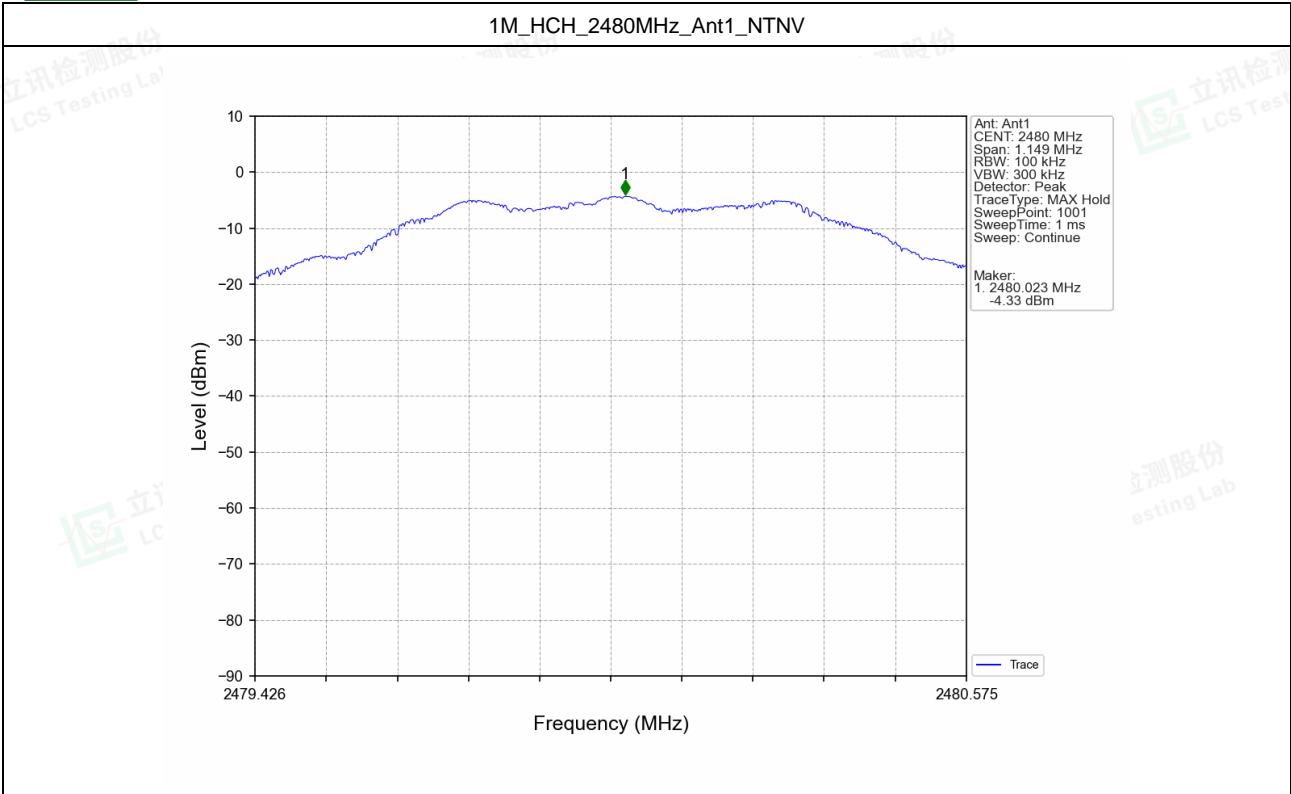
### B.5 Conducted RF Spurious Emission

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-4.73
		2440	1	-4.43
		2480	1	-4.33
2M	SISO	2402	1	-4.78
		2440	1	-4.45
		2480	1	-4.30

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.

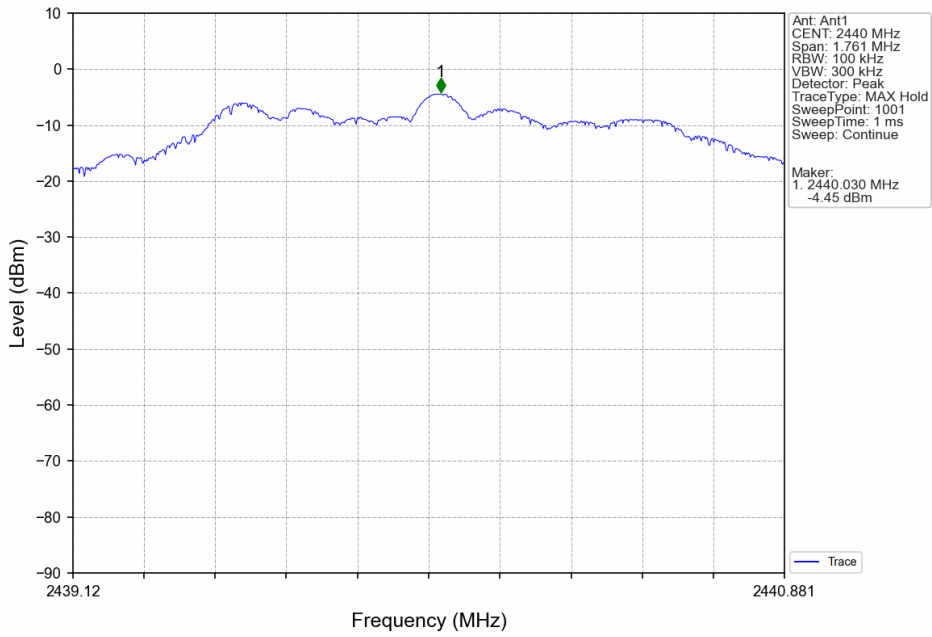




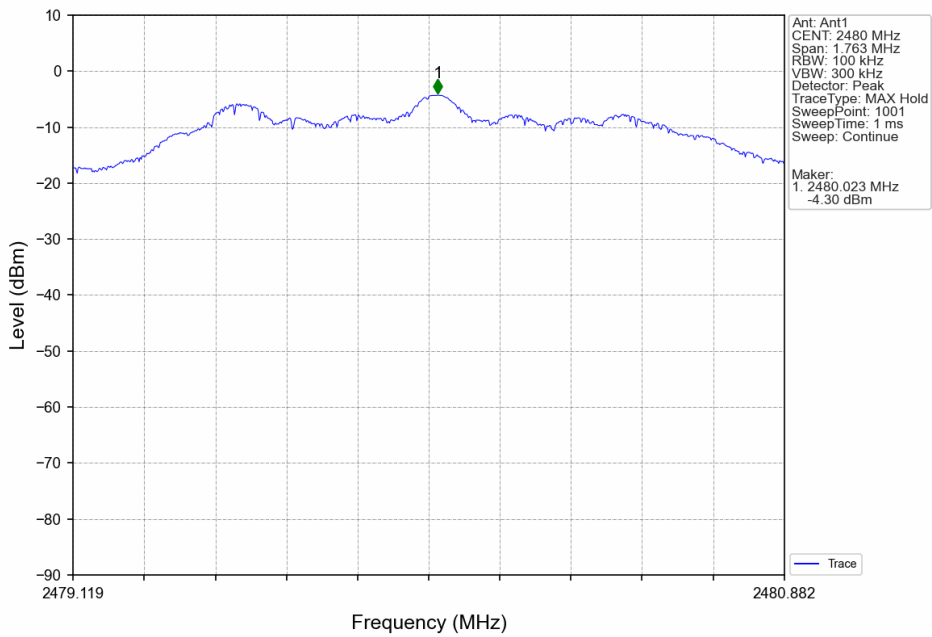


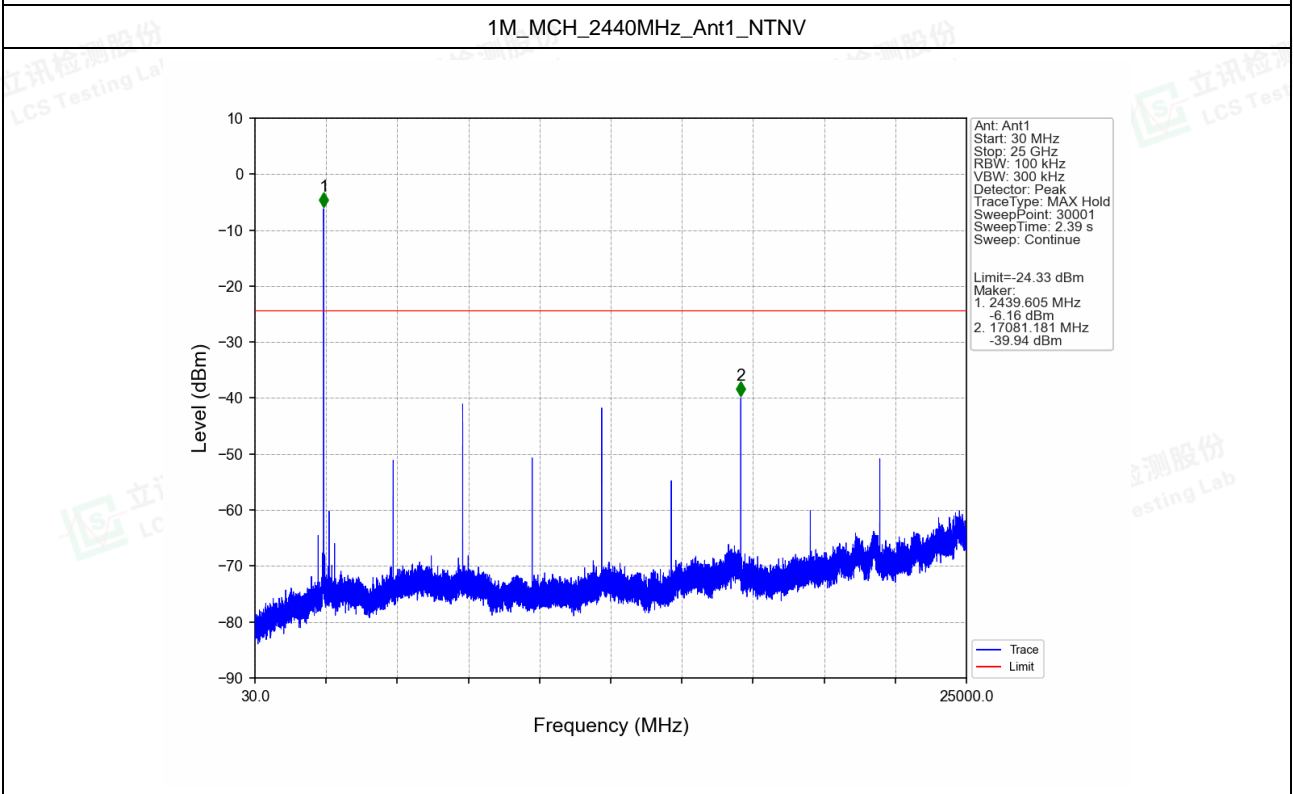
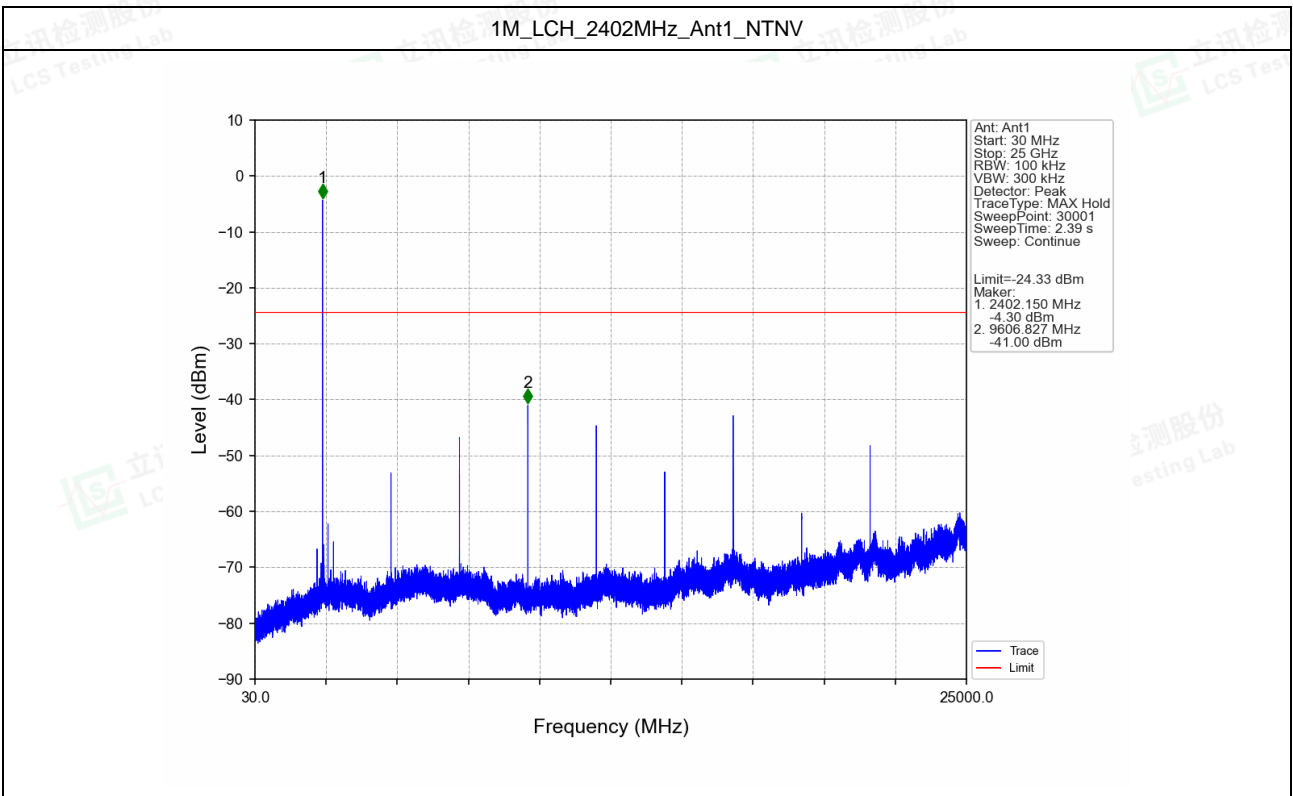


2M\_MCH\_2440MHz\_Ant1\_NTNV



2M\_HCH\_2480MHz\_Ant1\_NTNV

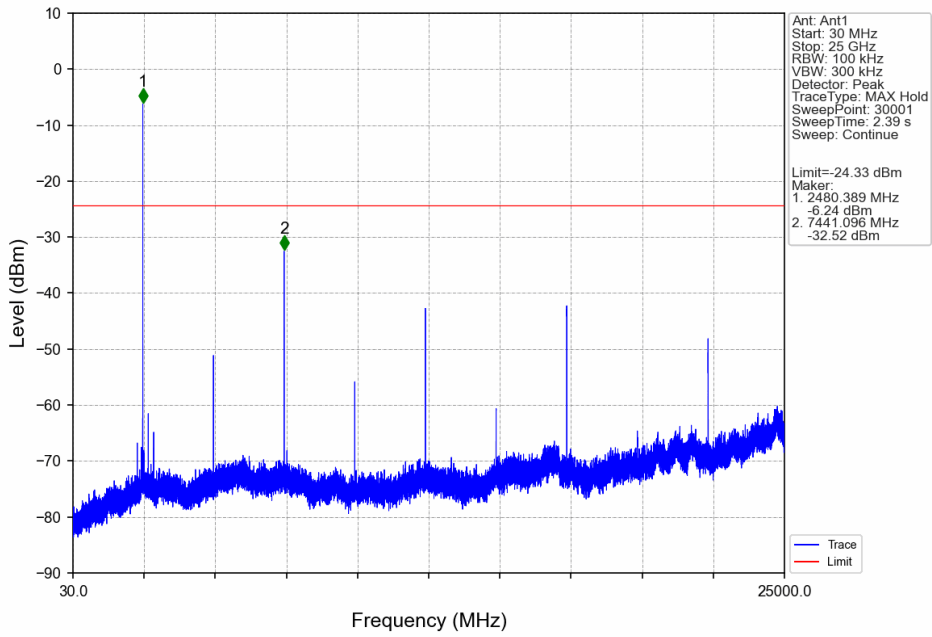




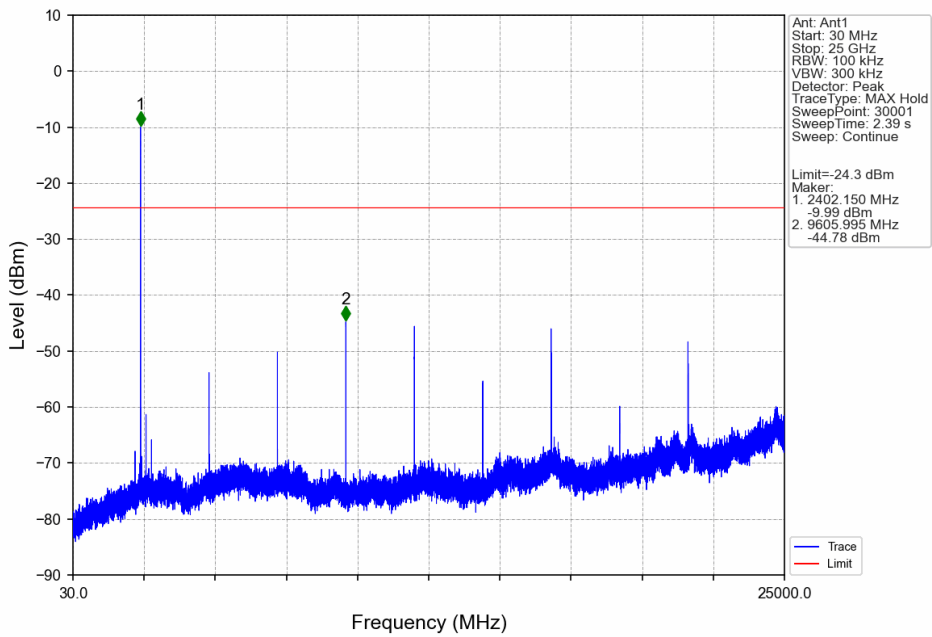


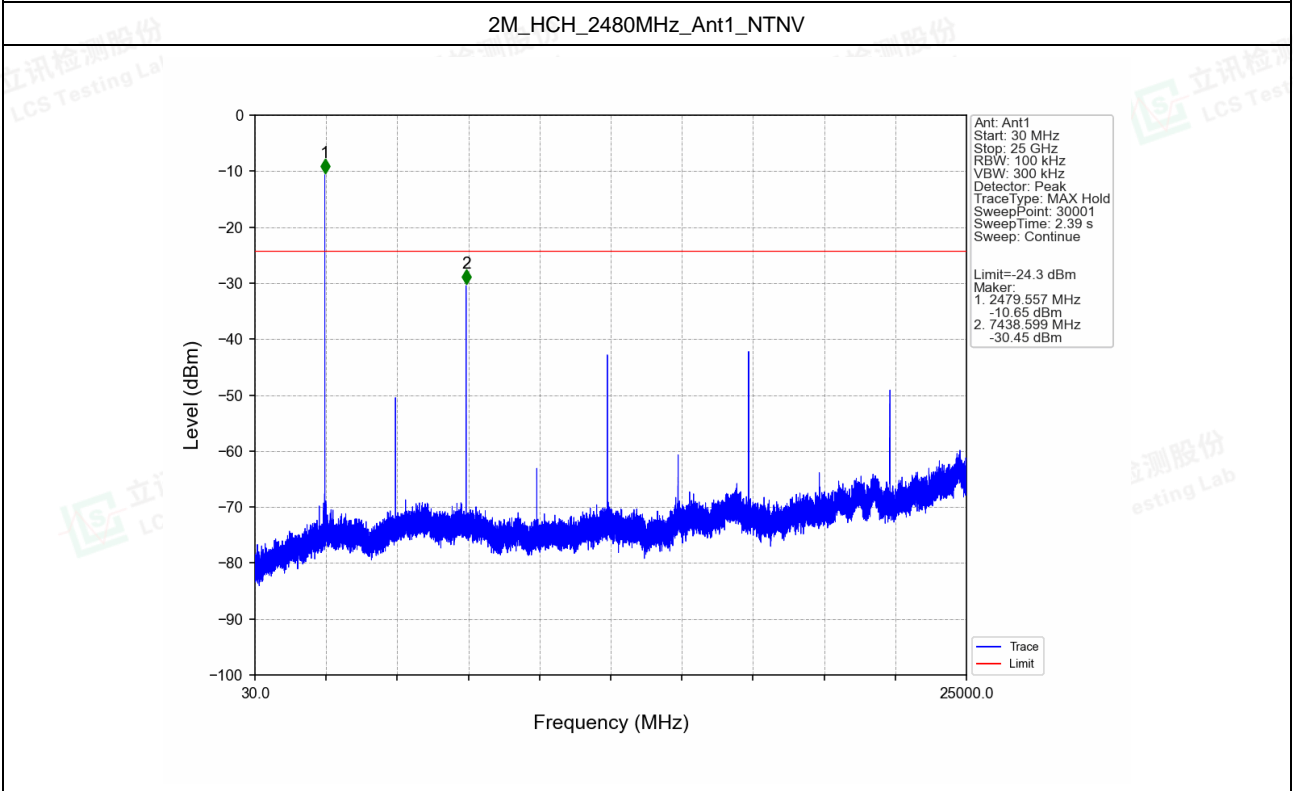
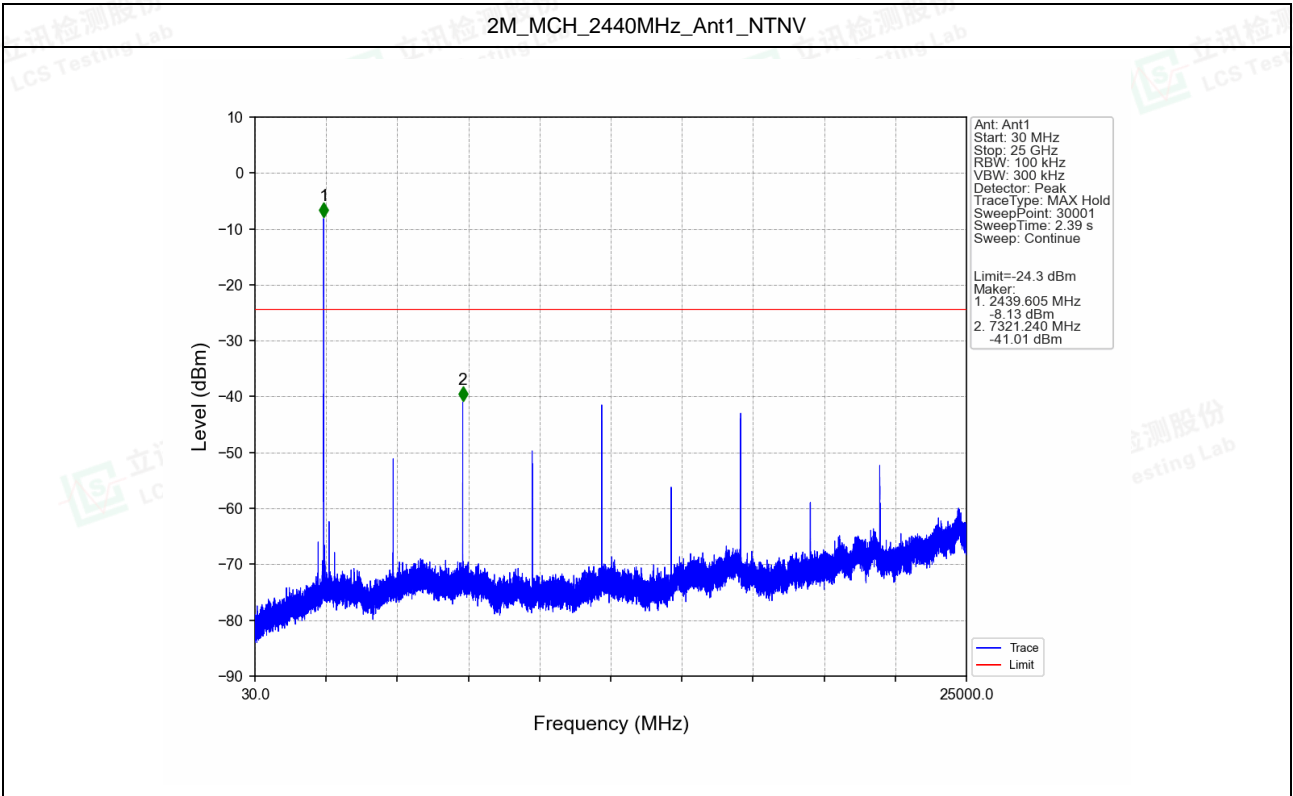


1M\_HCH\_2480MHz\_Ant1\_NTNV



2M\_LCH\_2402MHz\_Ant1\_NTNV





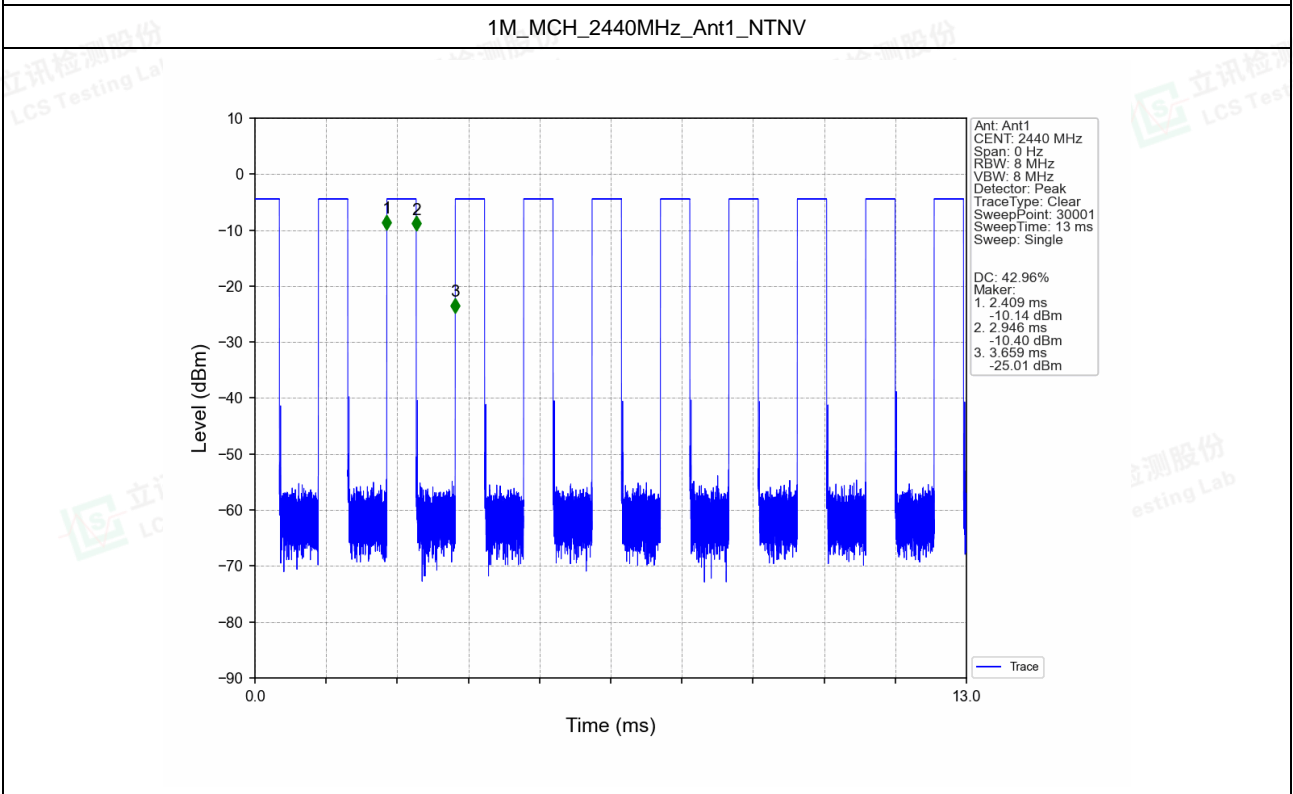
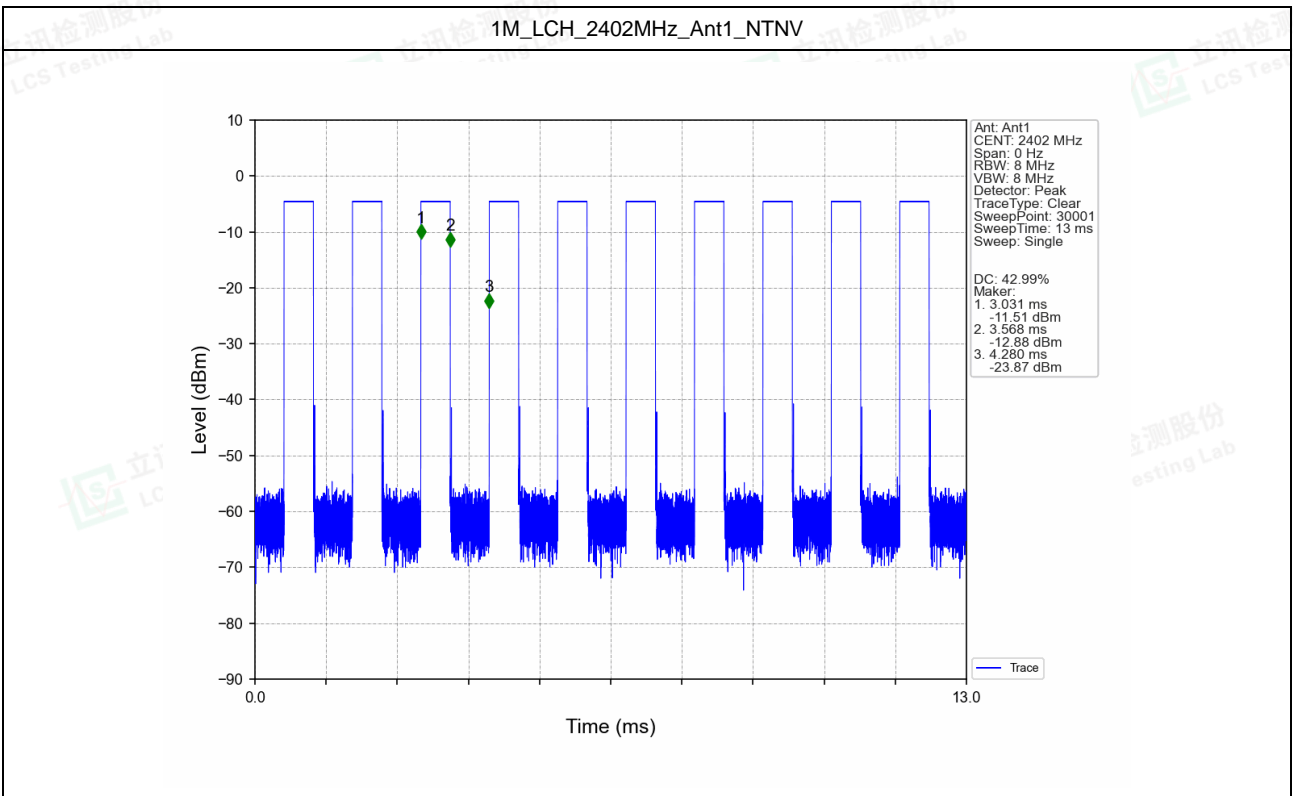


### B.6 Duty Cycle

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	1.249	42.99	3.67	0.02
		2440	0.537	1.250	42.96	3.67	0.03
		2480	0.537	1.250	42.96	3.67	0.03
2M	SISO	2402	0.281	1.250	22.48	6.48	0.03
		2440	0.281	1.250	22.48	6.48	0.03
		2480	0.280	1.249	22.42	6.49	0.03

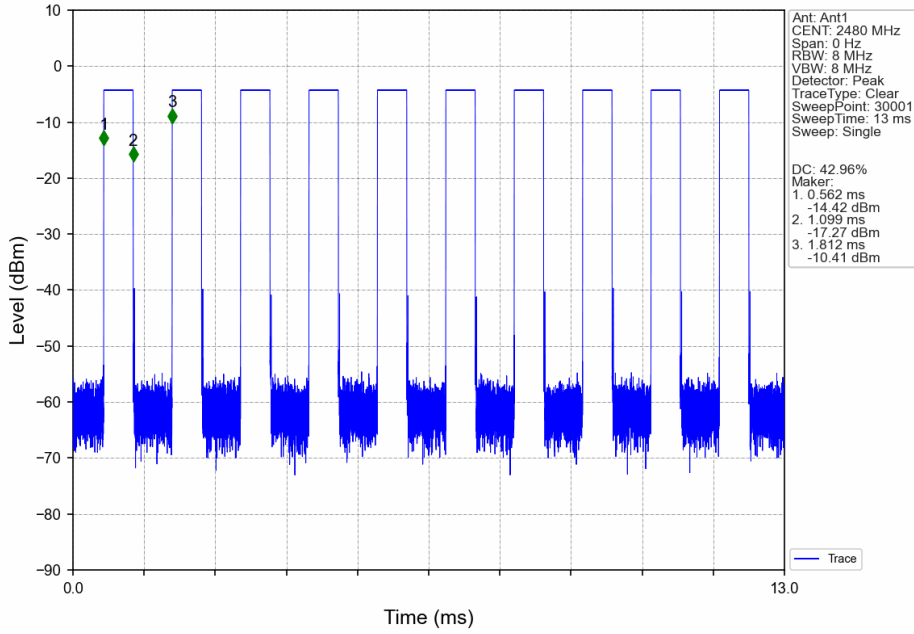


Shenzhen LCS Compliance Testing Laboratory Ltd.  
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity

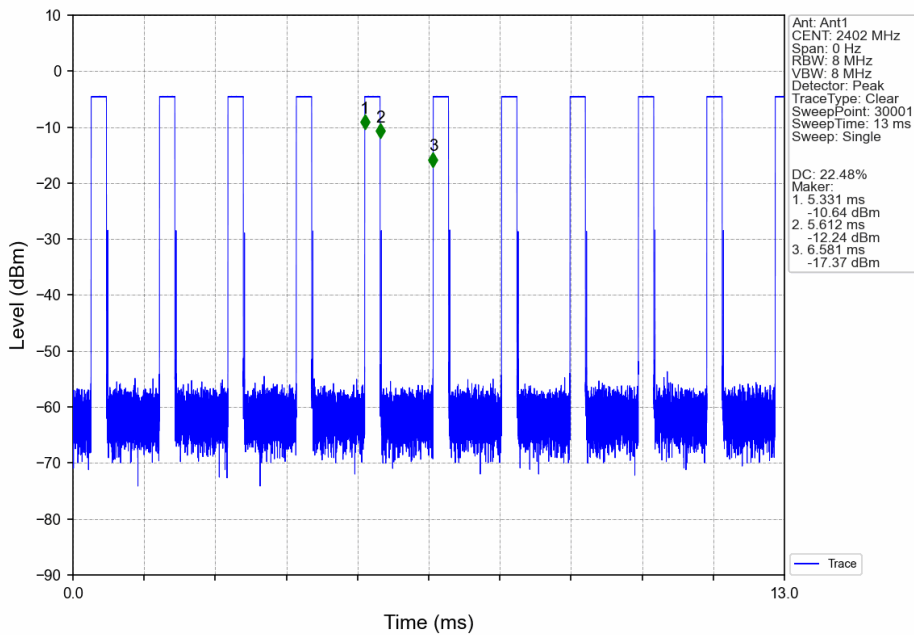




1M\_HCH\_2480MHz\_Ant1\_NTNV

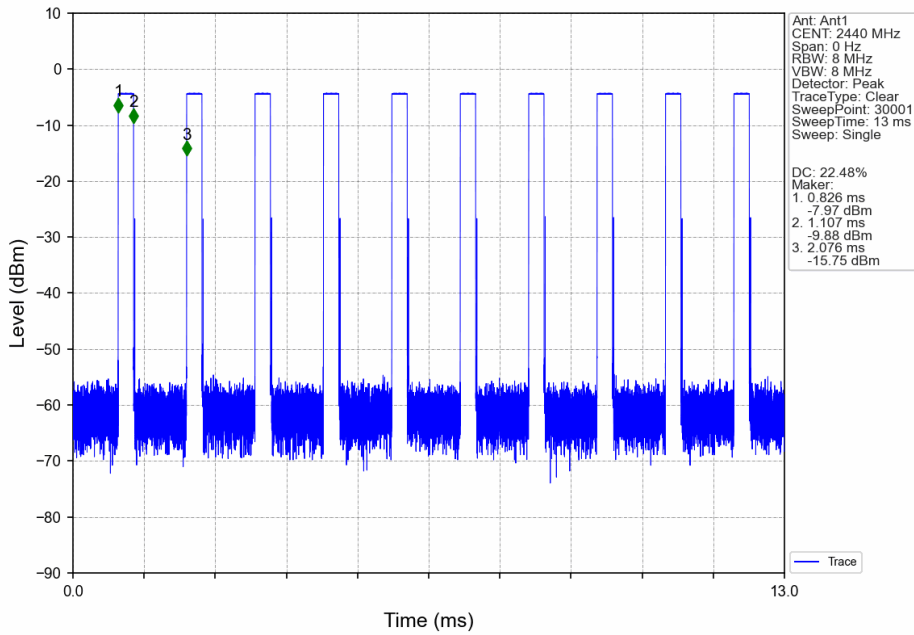


2M\_LCH\_2402MHz\_Ant1\_NTNV

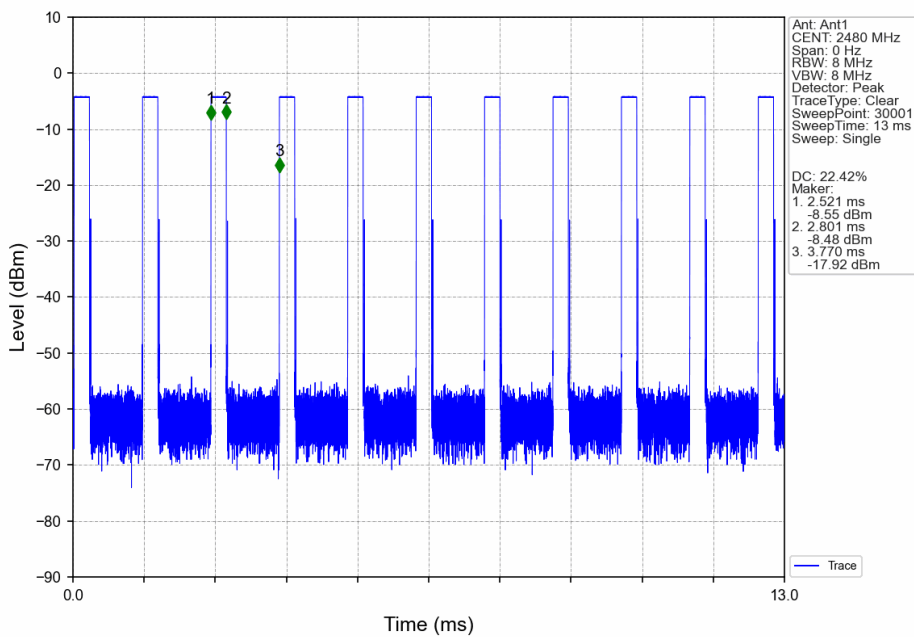




2M\_MCH\_2440MHz\_Ant1\_NTNV



2M\_HCH\_2480MHz\_Ant1\_NTNV





## B.7 Restrict Band

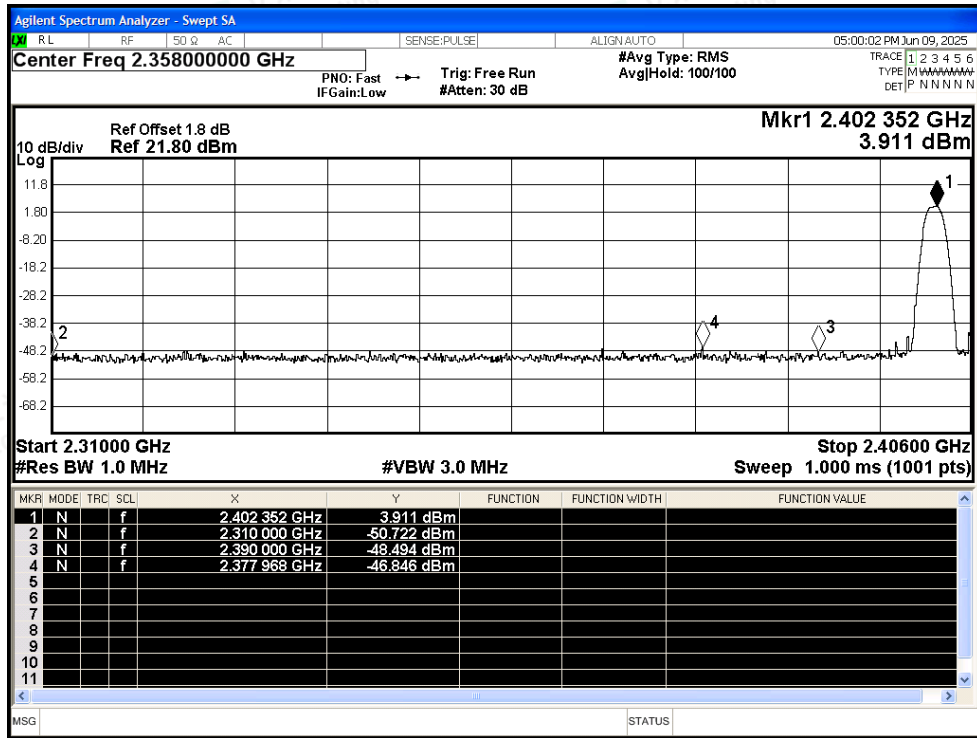
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-50.72	2	-	46.54	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.85	2	3.67	42.08	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2377.968	-46.85	2	-	50.41	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2364.624	-58.29	2	3.67	42.64	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-48.49	2	-	48.77	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.41	2	3.67	42.52	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-40.82	2	-	56.44	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-56.81	2	3.67	44.12	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2485	-40.24	2	-	57.02	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.608	-56.32	2	3.67	44.61	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-51.07	2	-	46.19	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.52	2	3.67	42.41	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2310	-50.85	2	-	46.41	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2310	-59.26	2	6.48	44.48	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2348.688	-46.58	2	-	50.68	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2363.568	-57.8	2	6.48	45.94	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2390	-51.37	2	-	45.89	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2390	-58.43	2	6.48	45.31	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-48.94	2	-	48.32	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-56.61	2	6.49	47.14	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2484.784	-39.6	2	-	57.66	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.848	-55.9	2	6.49	47.85	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2500	-50.11	2	-	47.15	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2500	-58.29	2	6.49	45.46	Average	54	Pass



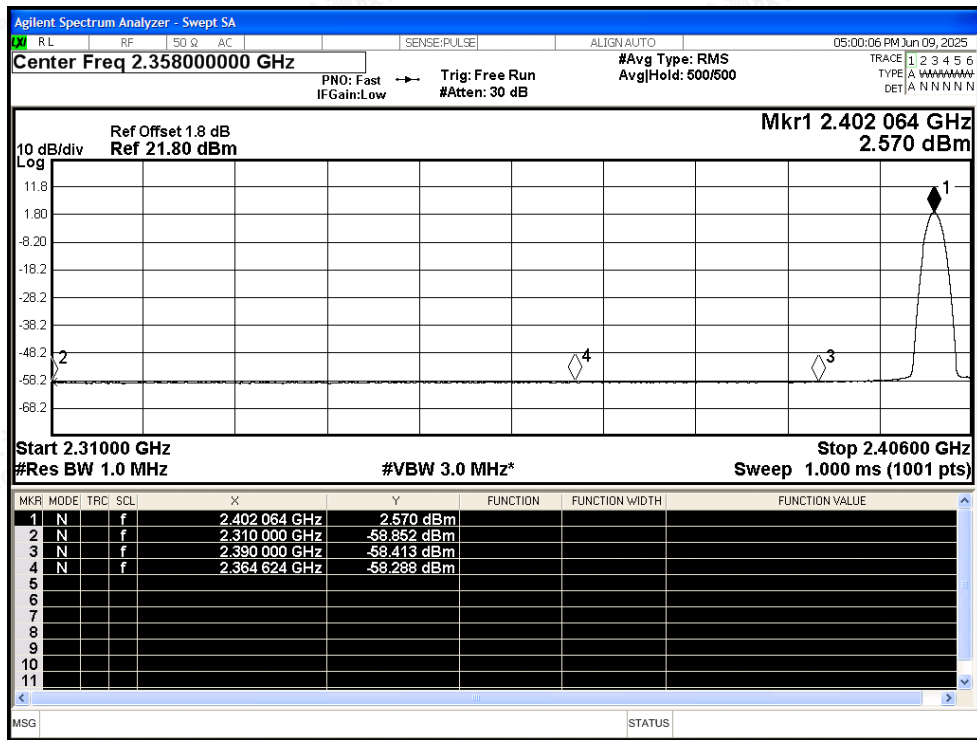


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



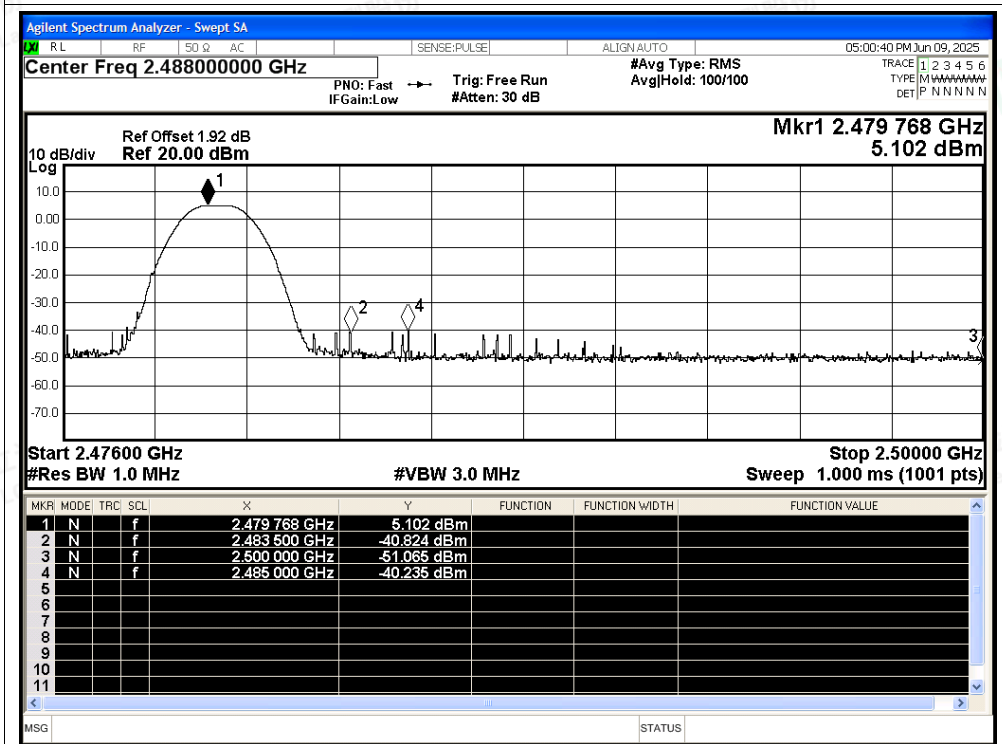
Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



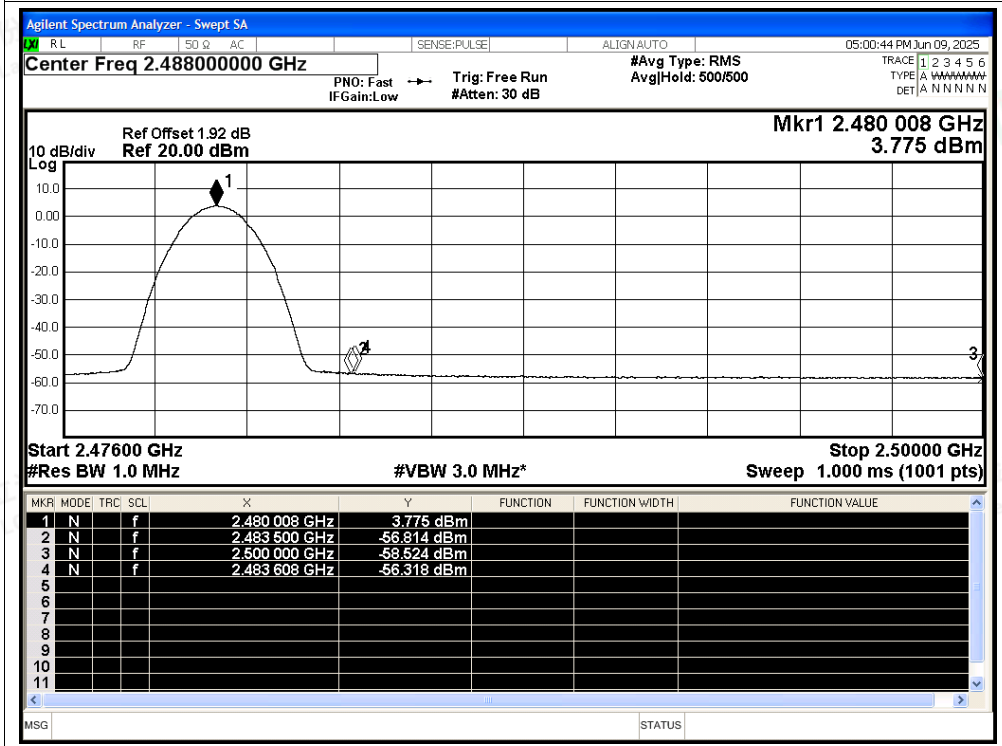




Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak

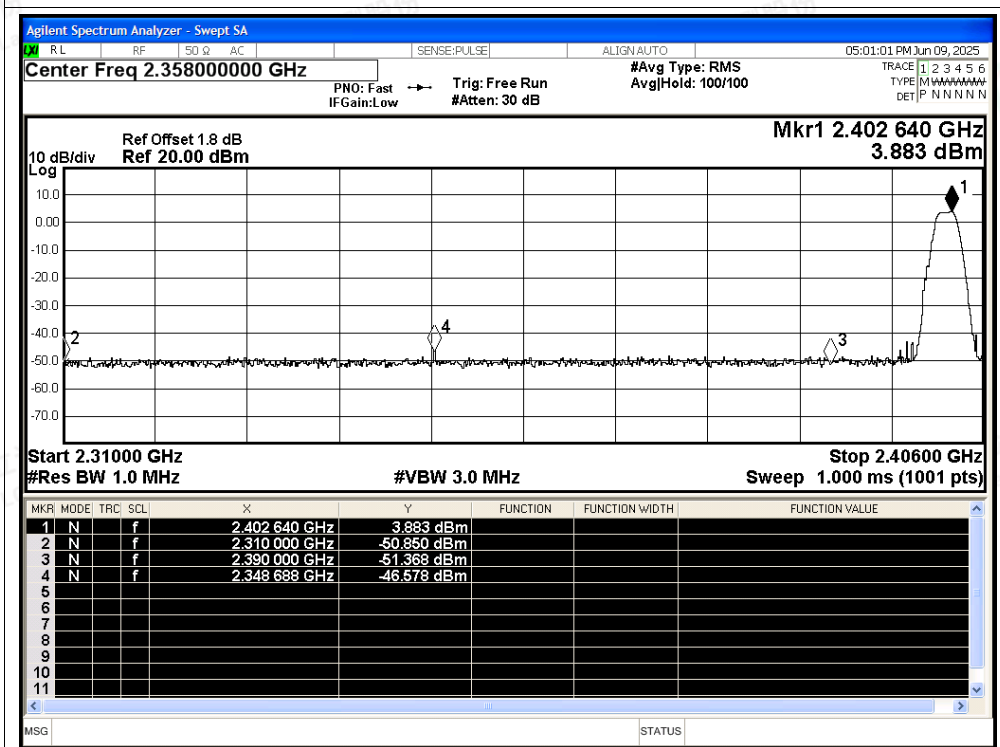


Restrict Band NVNT BLE 1M 2480MHz Ant1 Average

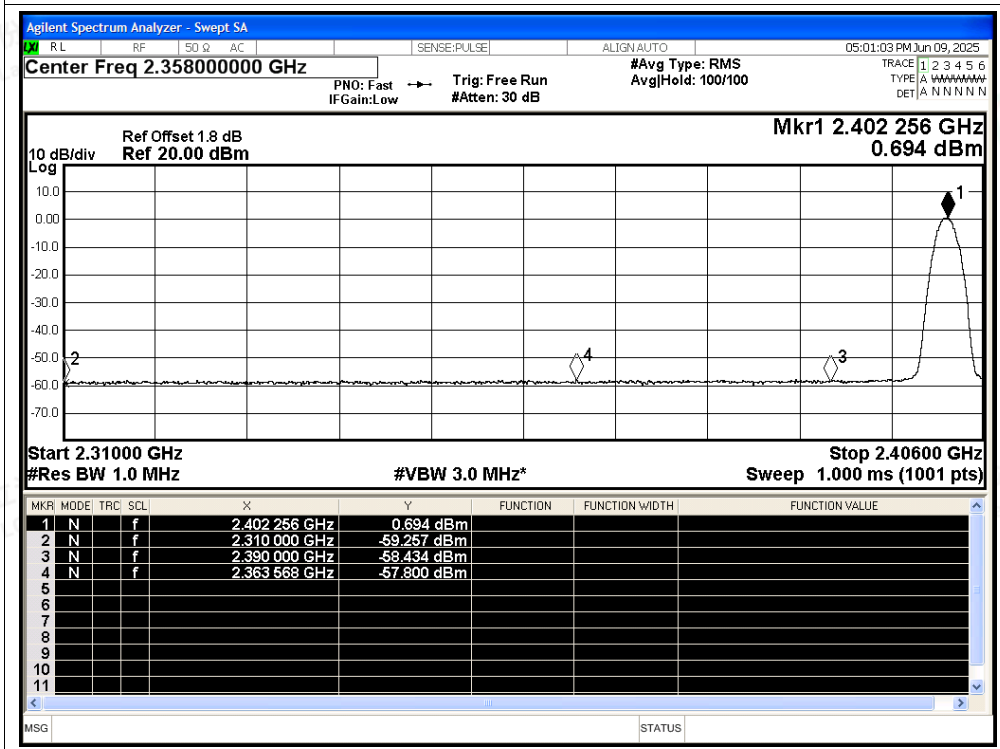




Restrict Band NVNT BLE 2M 2402MHz Ant1 Peak

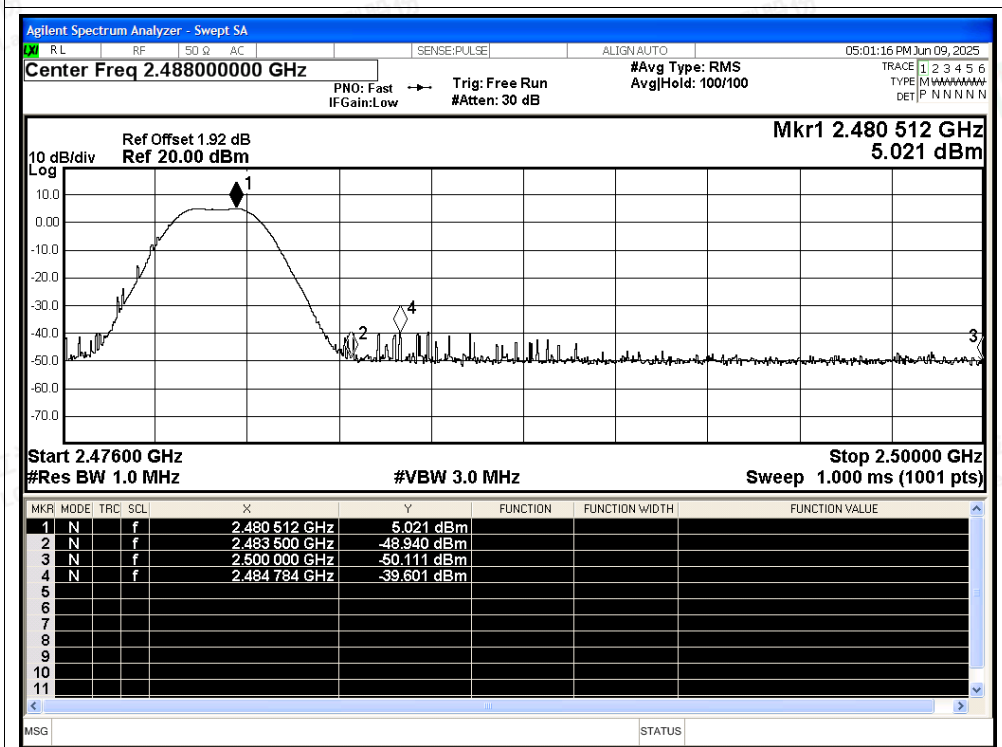


Restrict Band NVNT BLE 2M 2402MHz Ant1 Average





Restrict Band NVNT BLE 2M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2480MHz Ant1 Average

