



Appendix B

RF Test Data for BT LE(Conducted Measurement)

Product Name: Tea Pro Magnetic Headphone Amplifier

Test Model: K1017

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Building A and 301 Building C, Juji Industrial Park, Yabianxueziwei Shajing Street, Baoan District, Shenzhen, 518000, P.R.C.
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
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B.1 -6dB Bandwidth

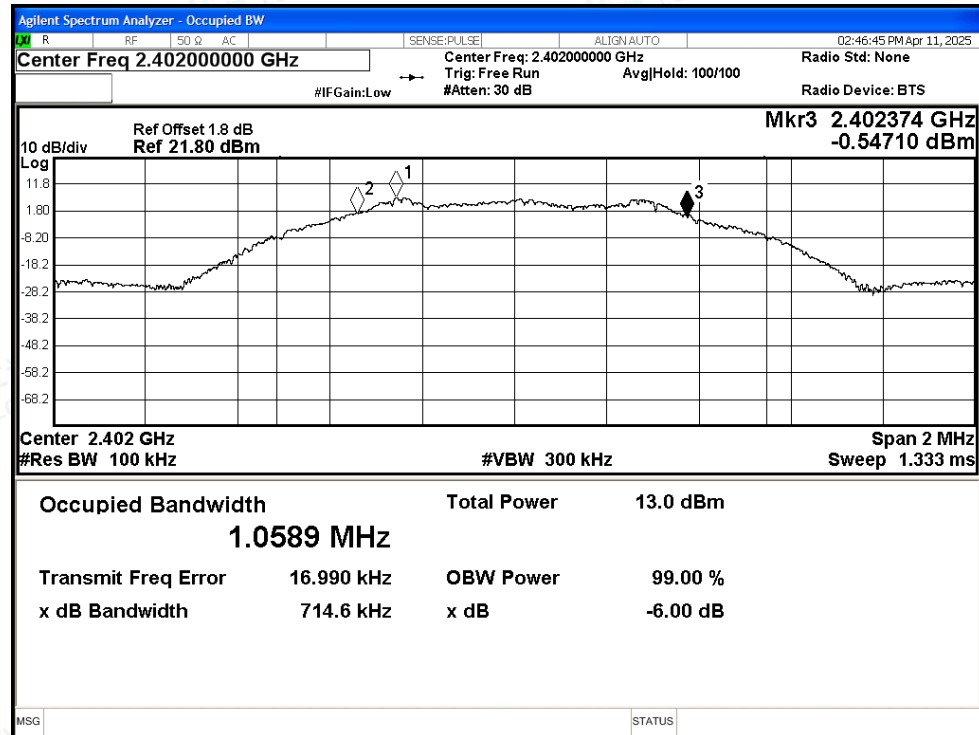
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.715	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.691	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.699	≥ 0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.186	≥ 0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.235	≥ 0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.199	≥ 0.5	Pass



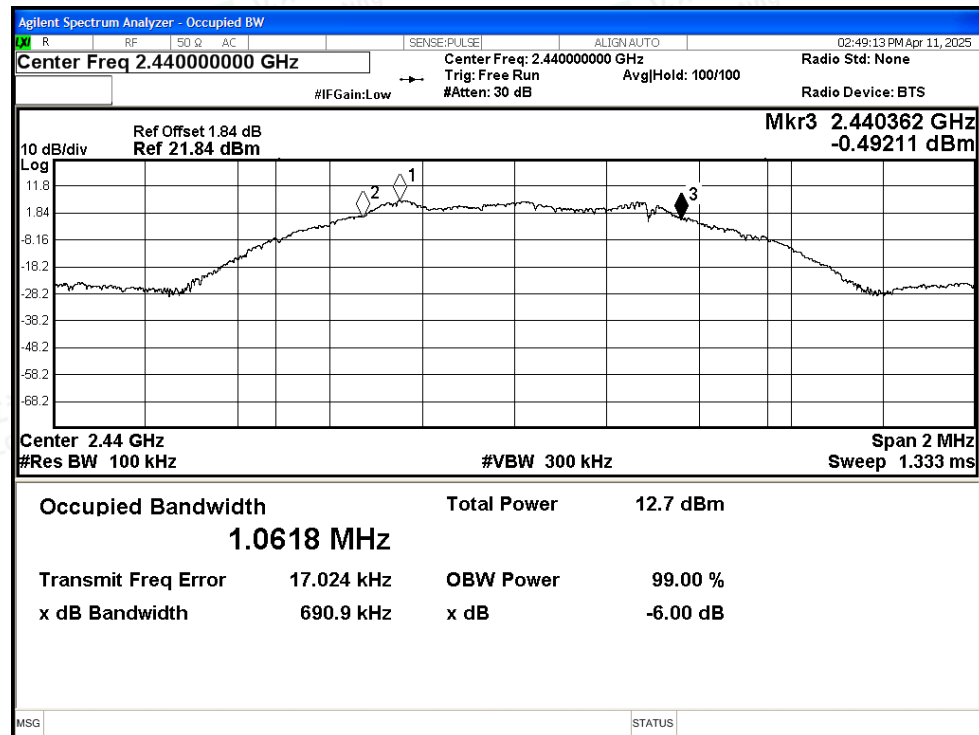


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1

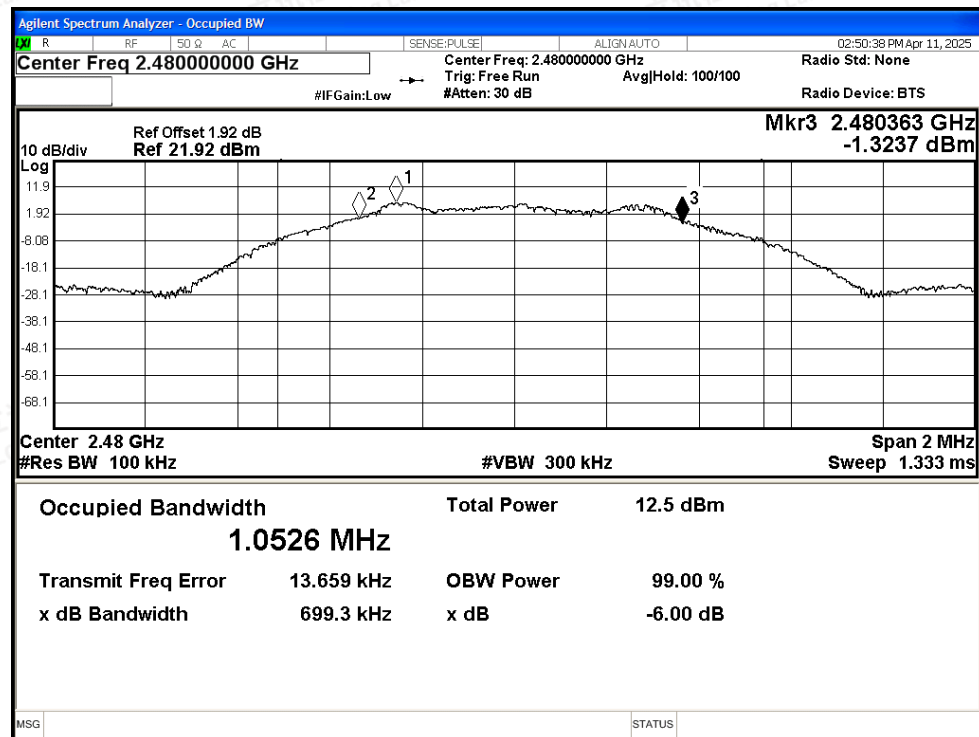


-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

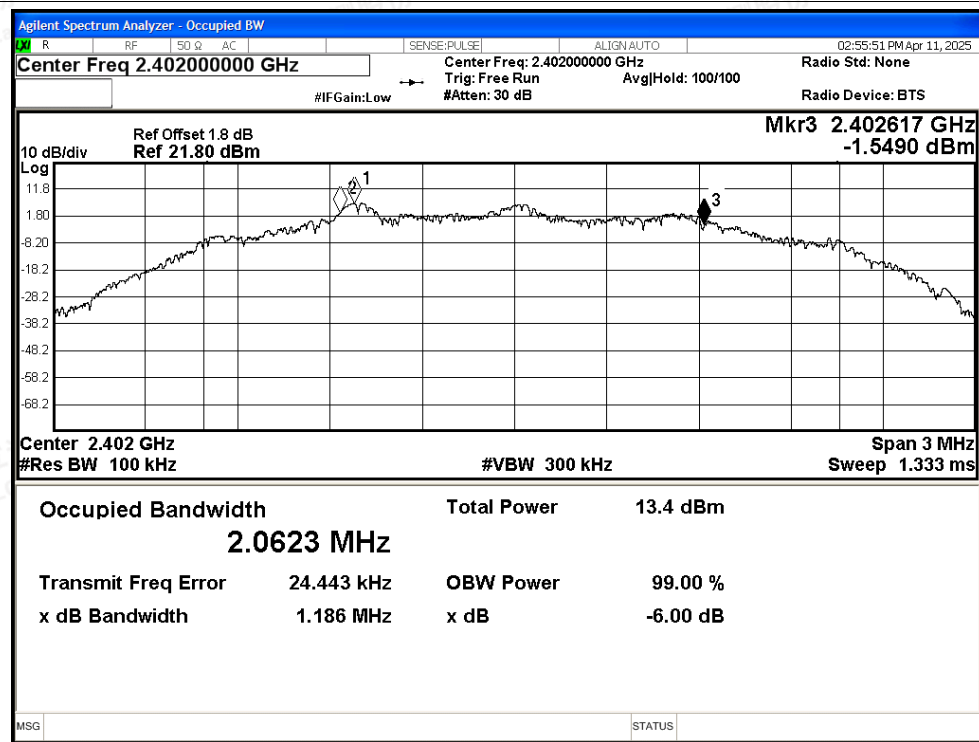




-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1

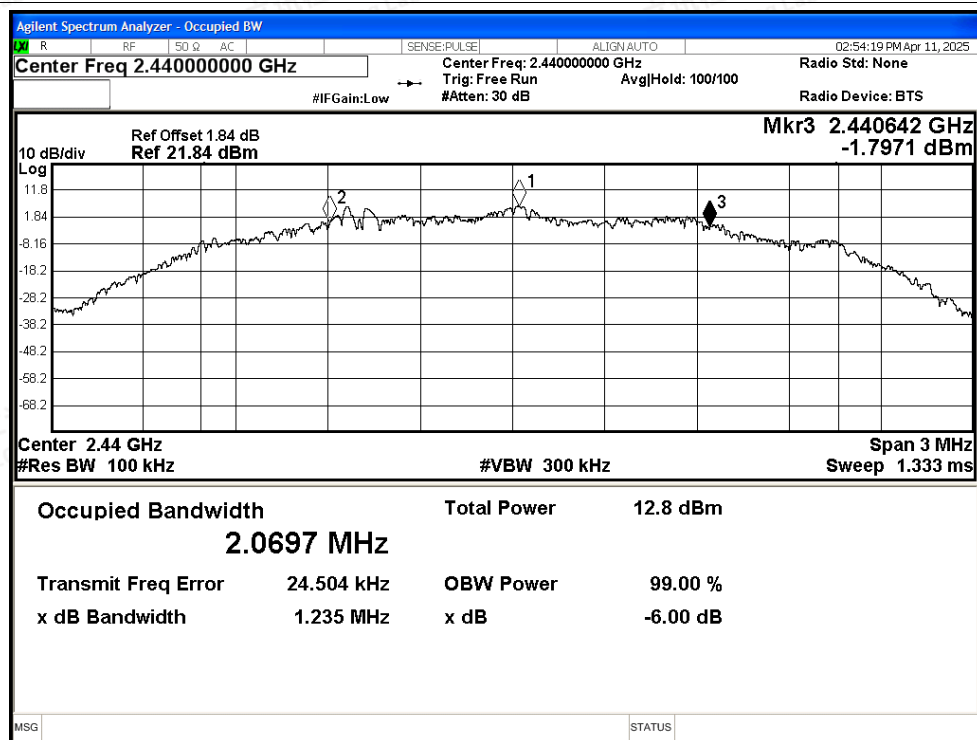


-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1

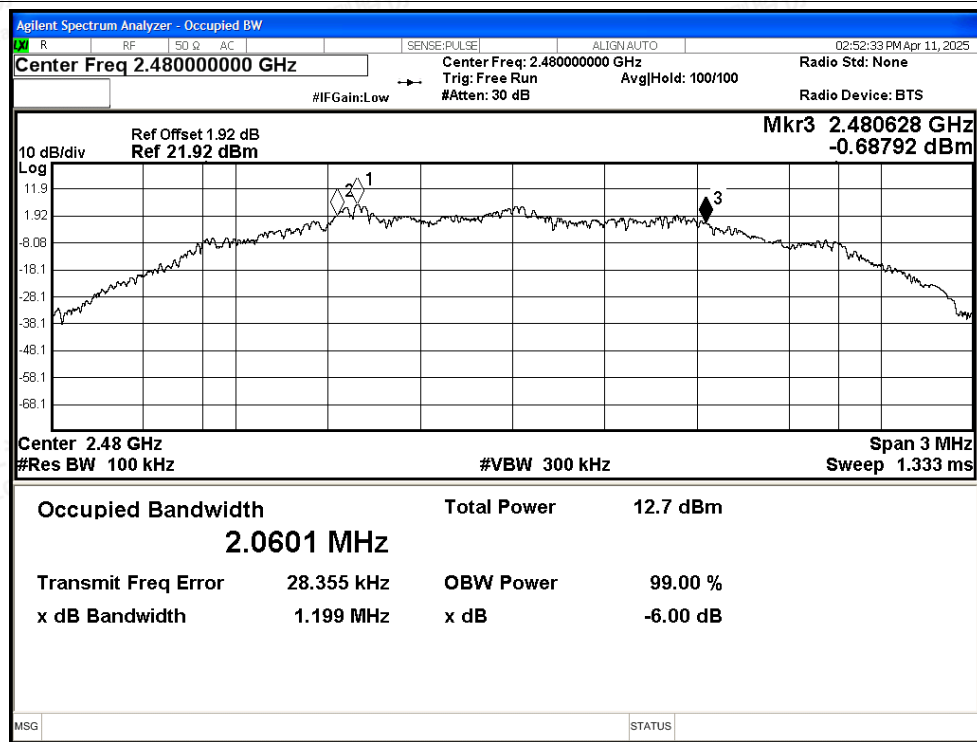




-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1





B.2 Maximum Peak Conducted Output Power

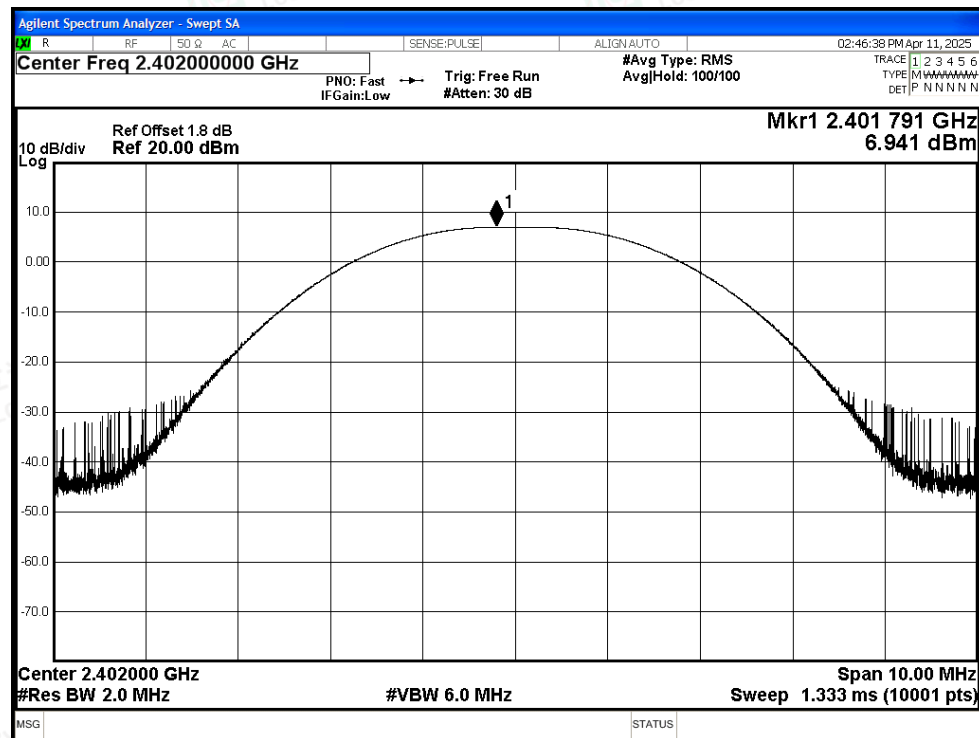
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	6.94	30	Pass
NVNT	BLE 1M	2440	Ant1	6.66	30	Pass
NVNT	BLE 1M	2480	Ant1	6.38	30	Pass
NVNT	BLE 2M	2402	Ant1	6.93	30	Pass
NVNT	BLE 2M	2440	Ant1	6.66	30	Pass
NVNT	BLE 2M	2480	Ant1	6.38	30	Pass



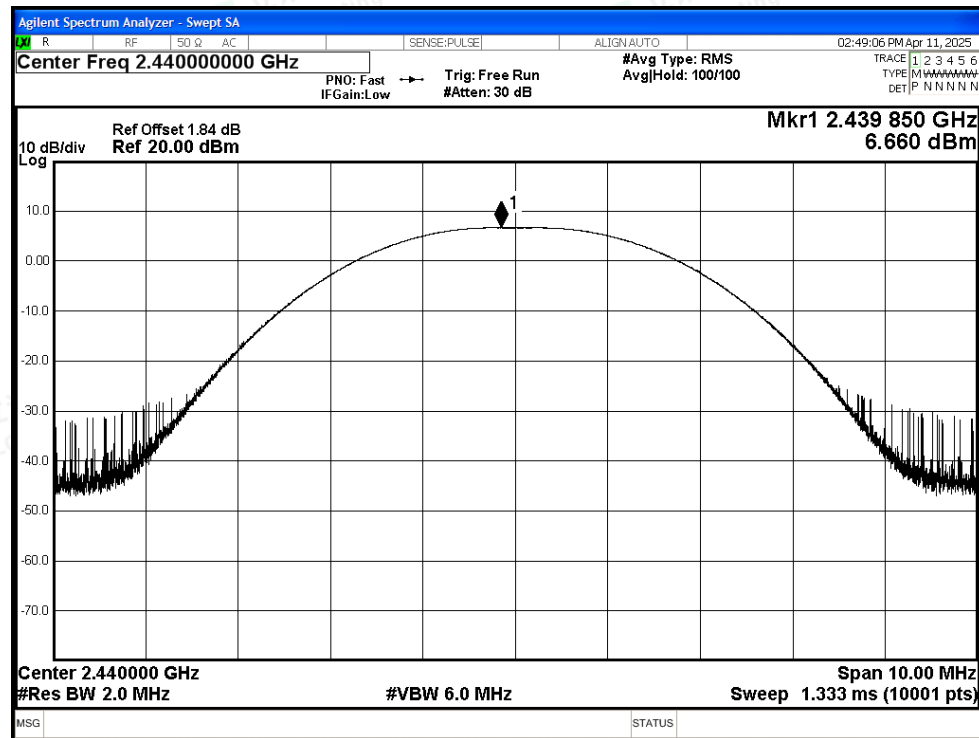


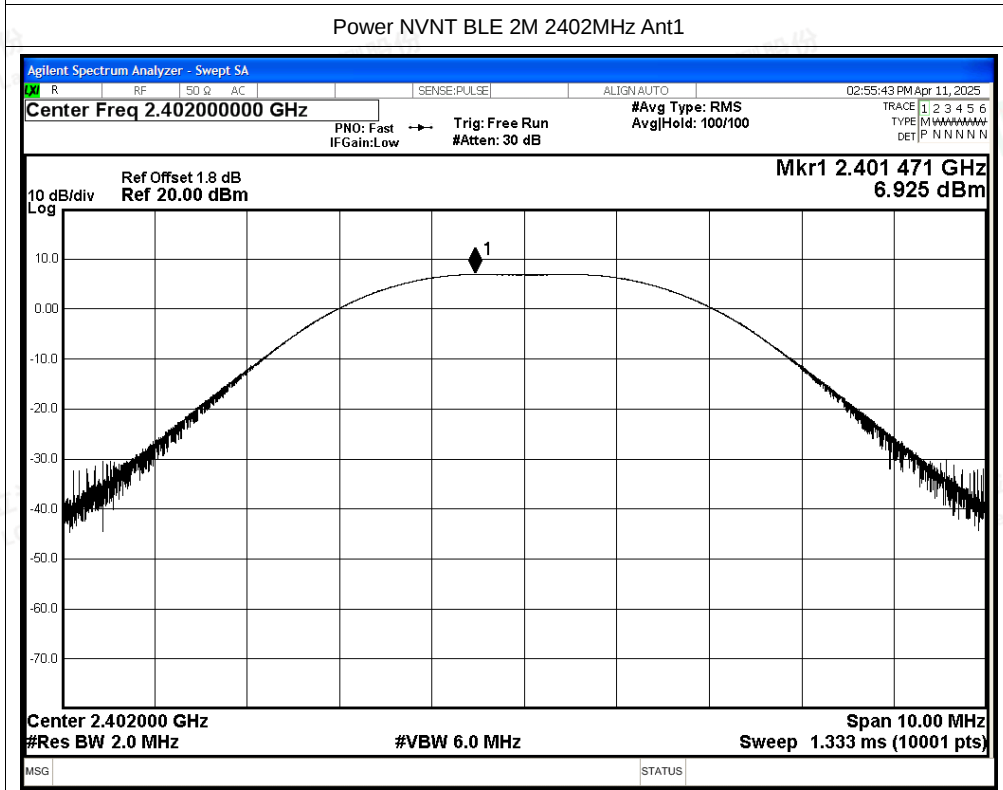
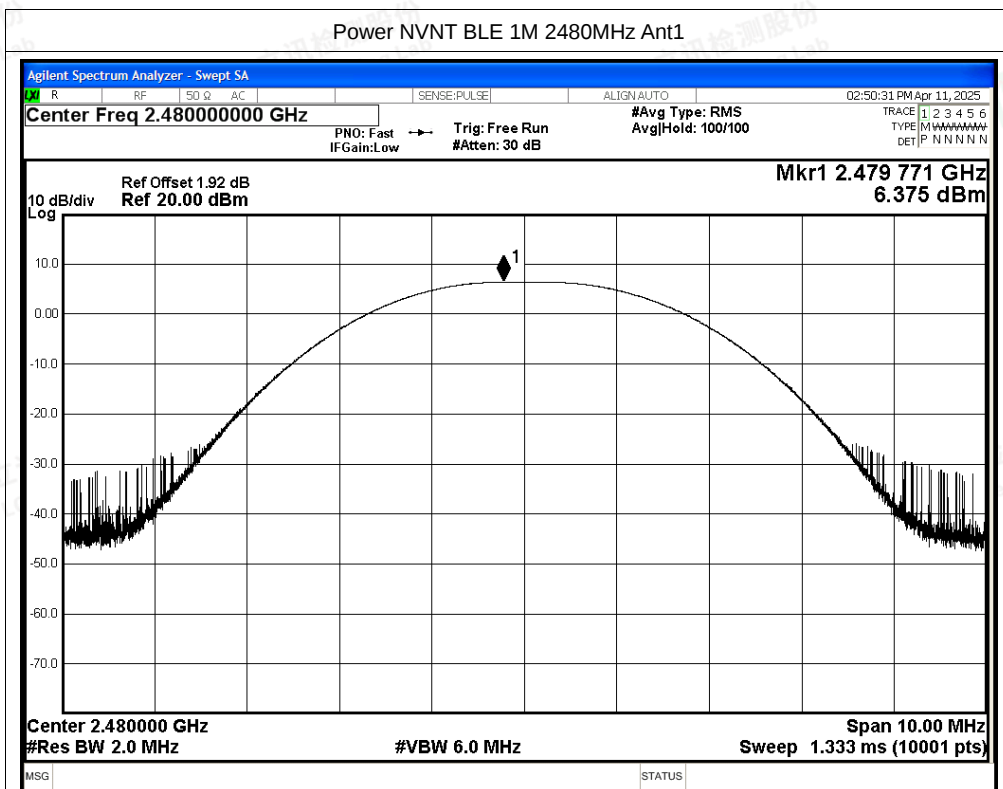
Test Graphs

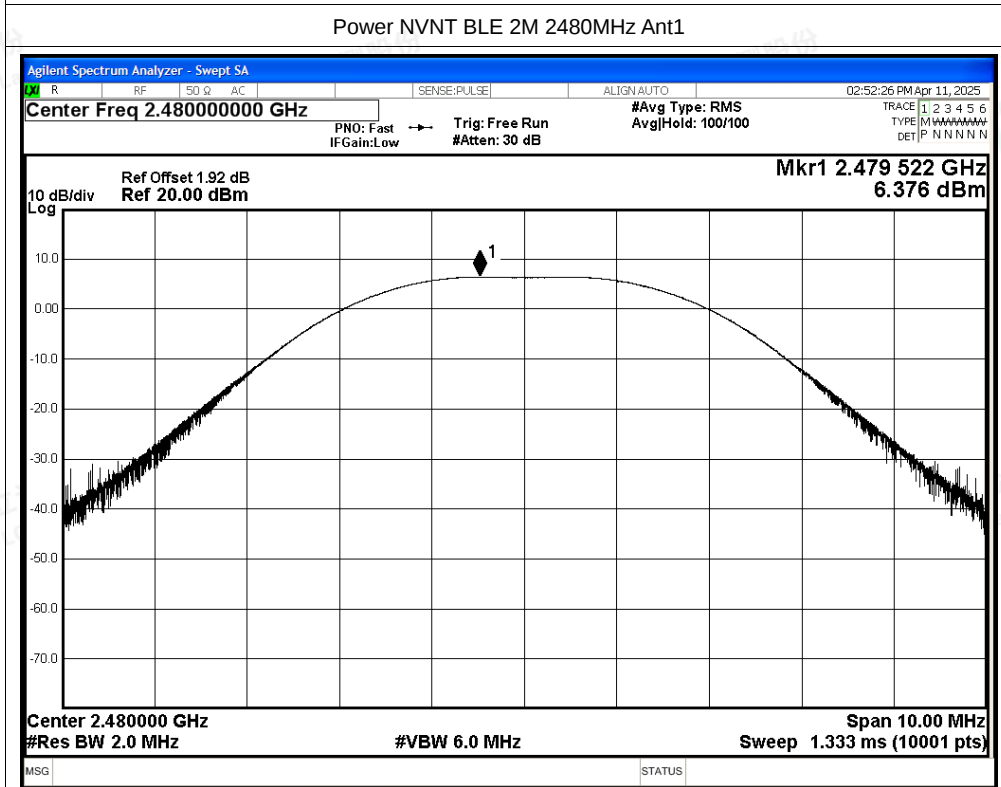
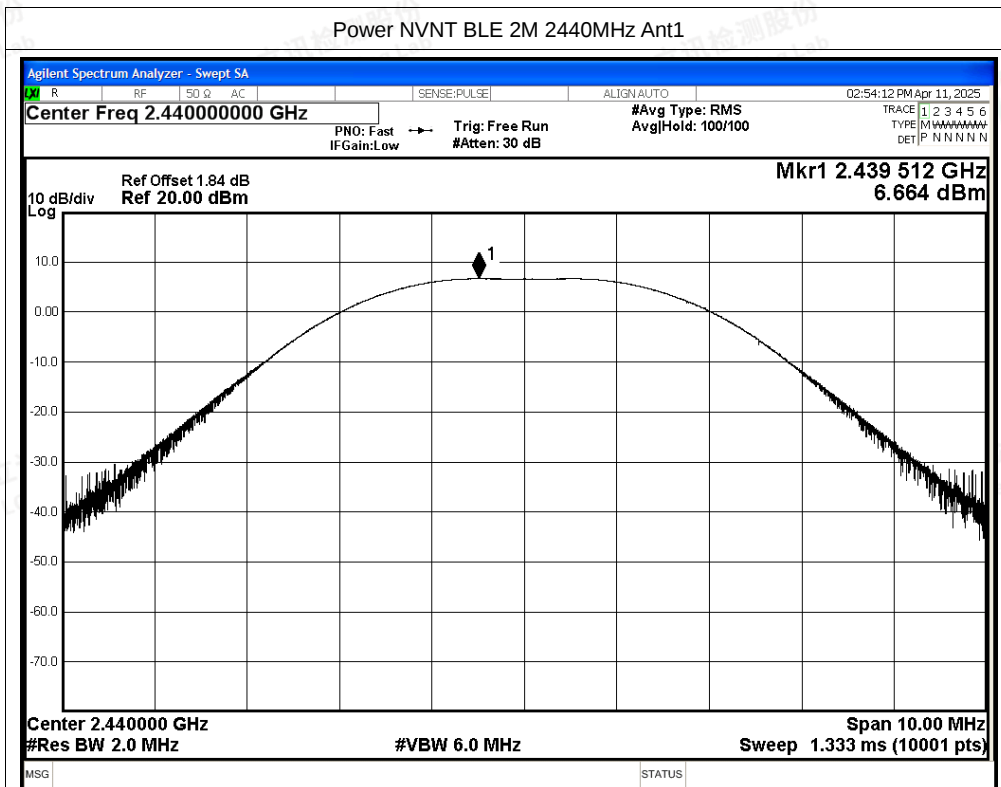
Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1









B.3 Maximum Power Spectral Density Level

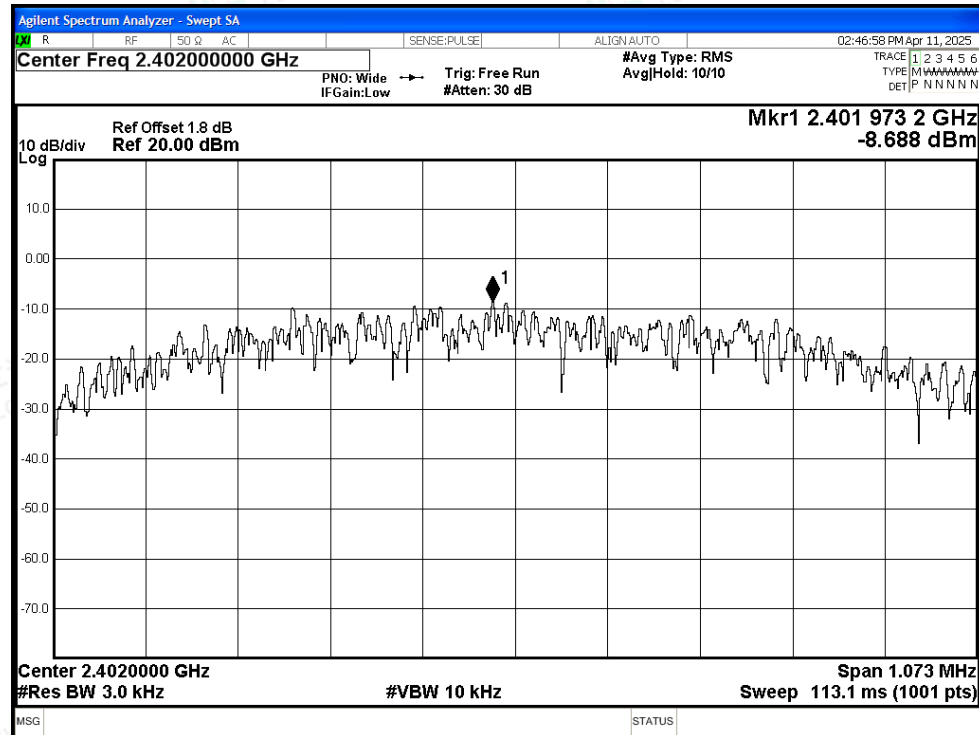
Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-8.69	8	Pass
NVNT	BLE 1M	2440	Ant1	-8.88	8	Pass
NVNT	BLE 1M	2480	Ant1	-9.12	8	Pass
NVNT	BLE 2M	2402	Ant1	-12.56	8	Pass
NVNT	BLE 2M	2440	Ant1	-12.39	8	Pass
NVNT	BLE 2M	2480	Ant1	-12.8	8	Pass



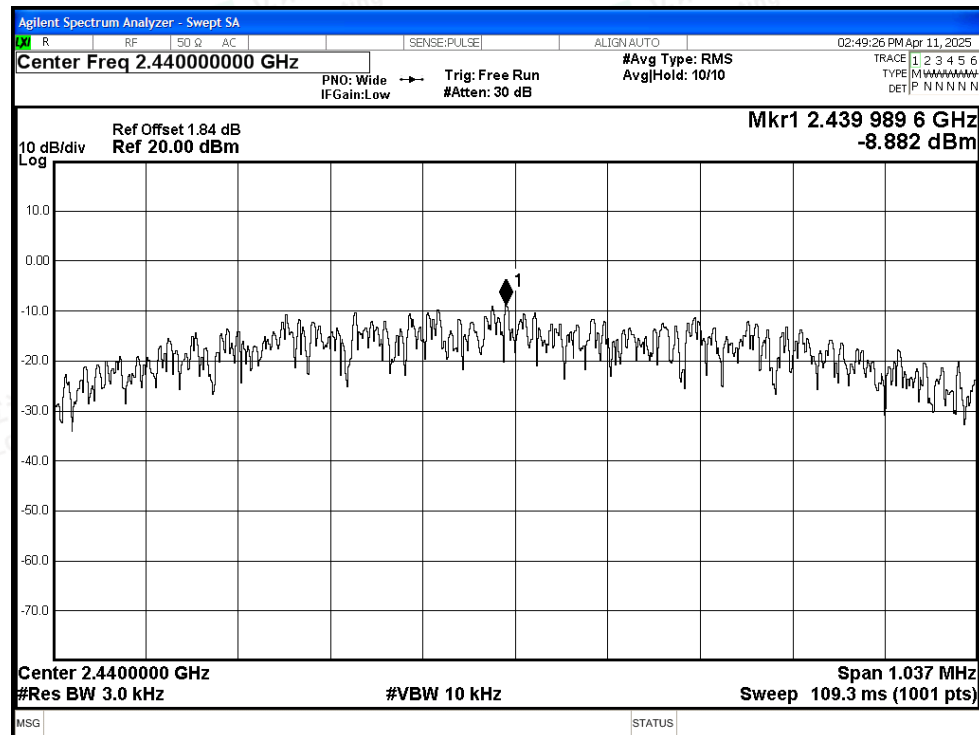


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1

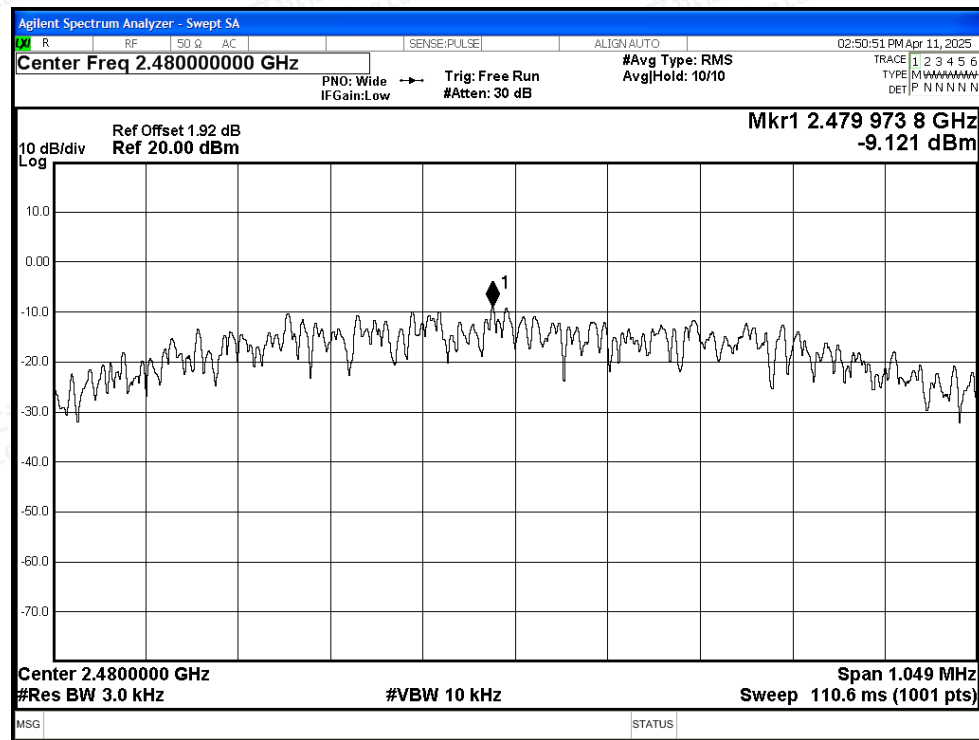


PSD NVNT BLE 1M 2440MHz Ant1

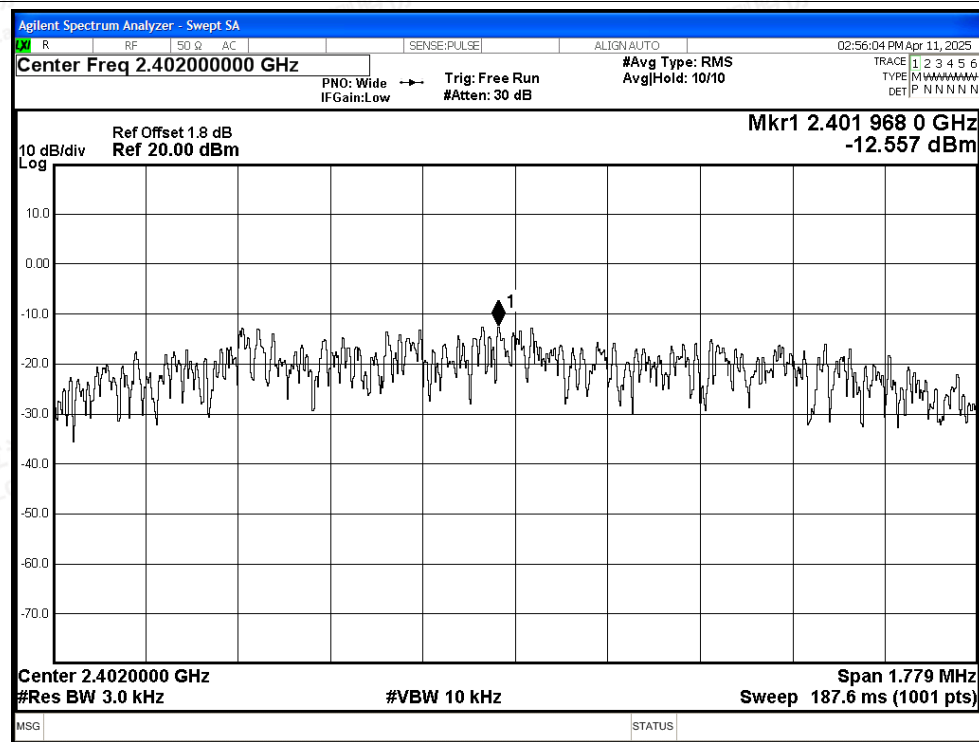


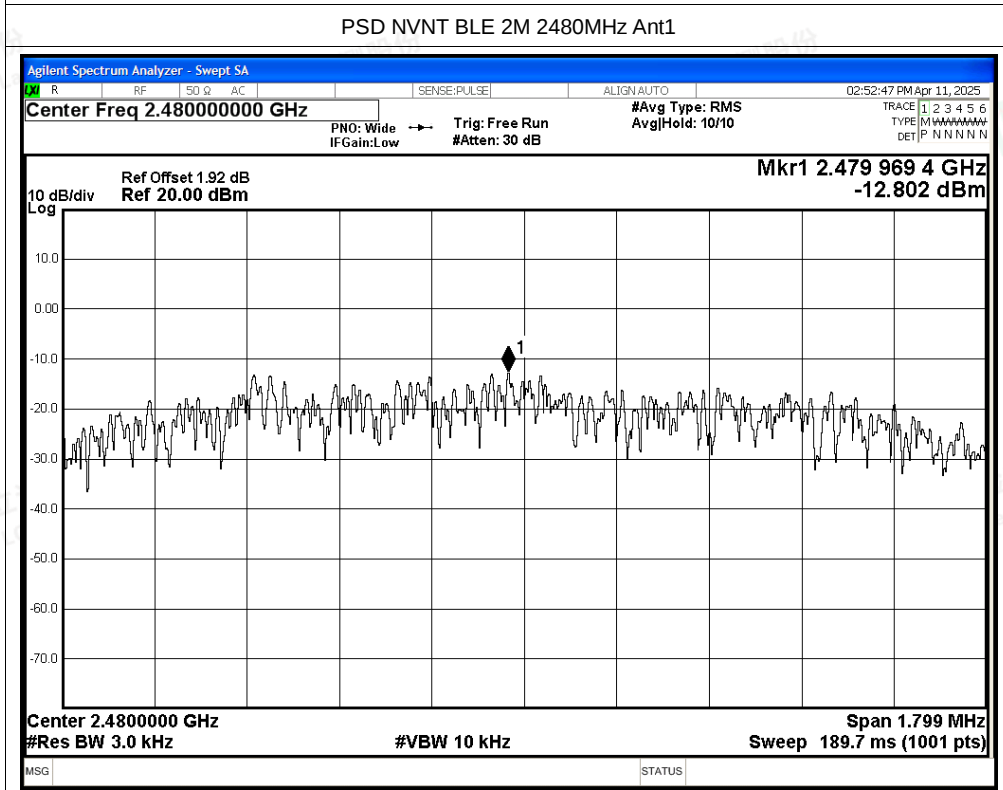
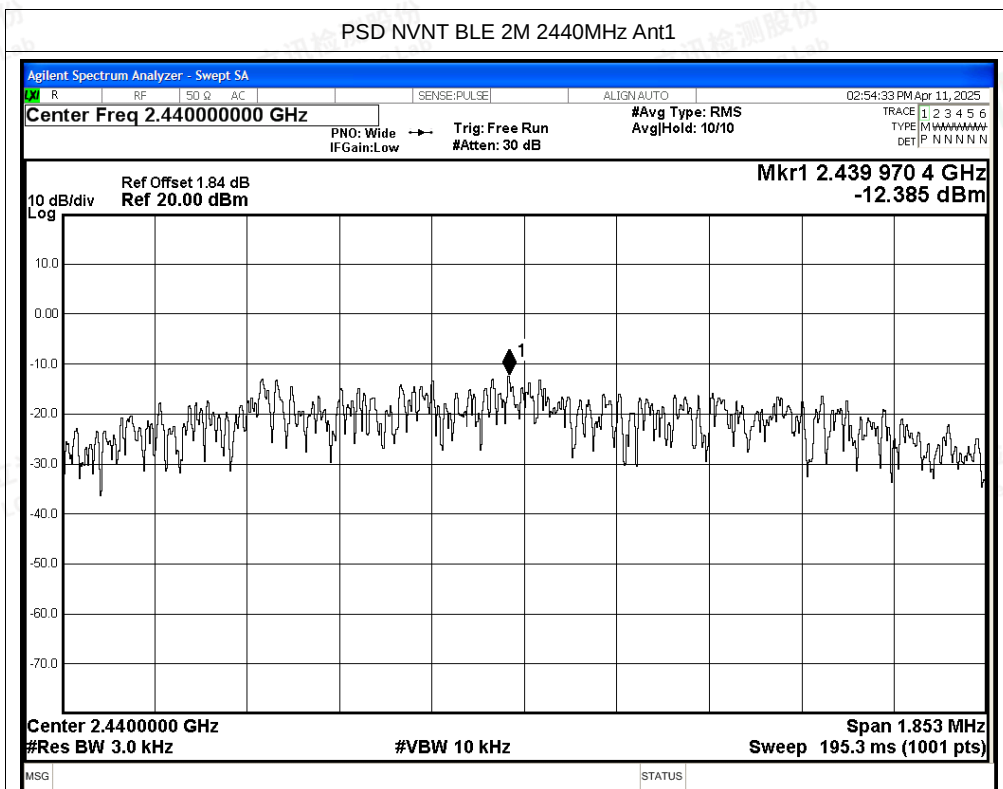


PSD NVNT BLE 1M 2480MHz Ant1



PSD NVNT BLE 2M 2402MHz Ant1







B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-53.13	-20	Pass
NVNT	BLE 1M	2480	Ant1	-58.79	-20	Pass
NVNT	BLE 2M	2402	Ant1	-31.03	-20	Pass
NVNT	BLE 2M	2480	Ant1	-58.04	-20	Pass

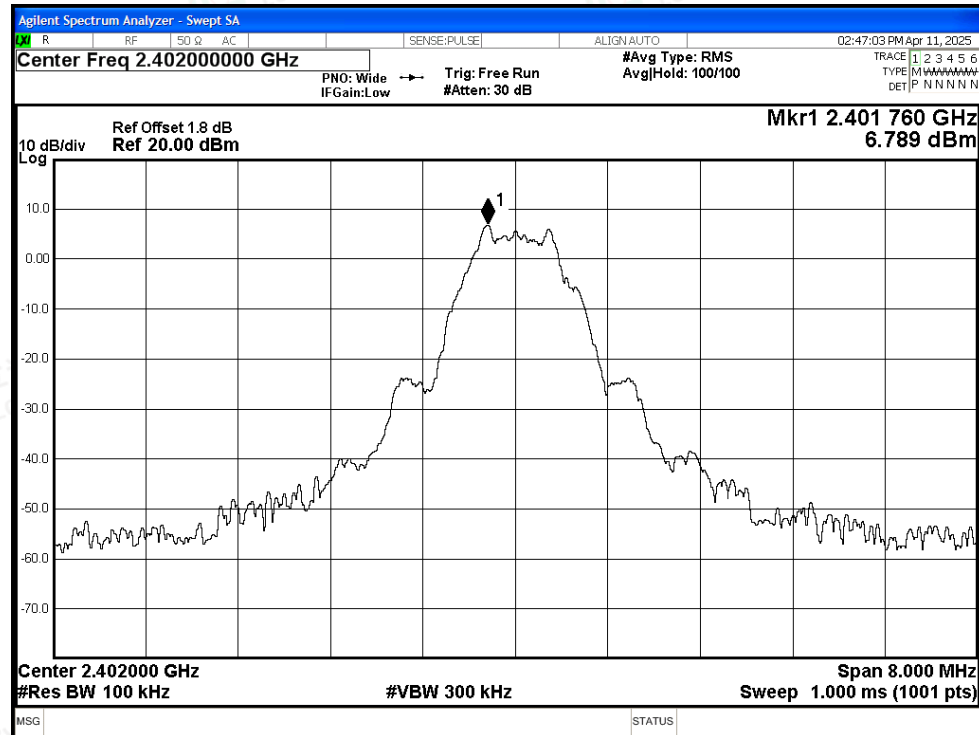


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Building A and 301 Building C, Juji Industrial Park, Yabianxueziwei Shajing Street, Baoan District, Shenzhen, 518000, P.R.C.
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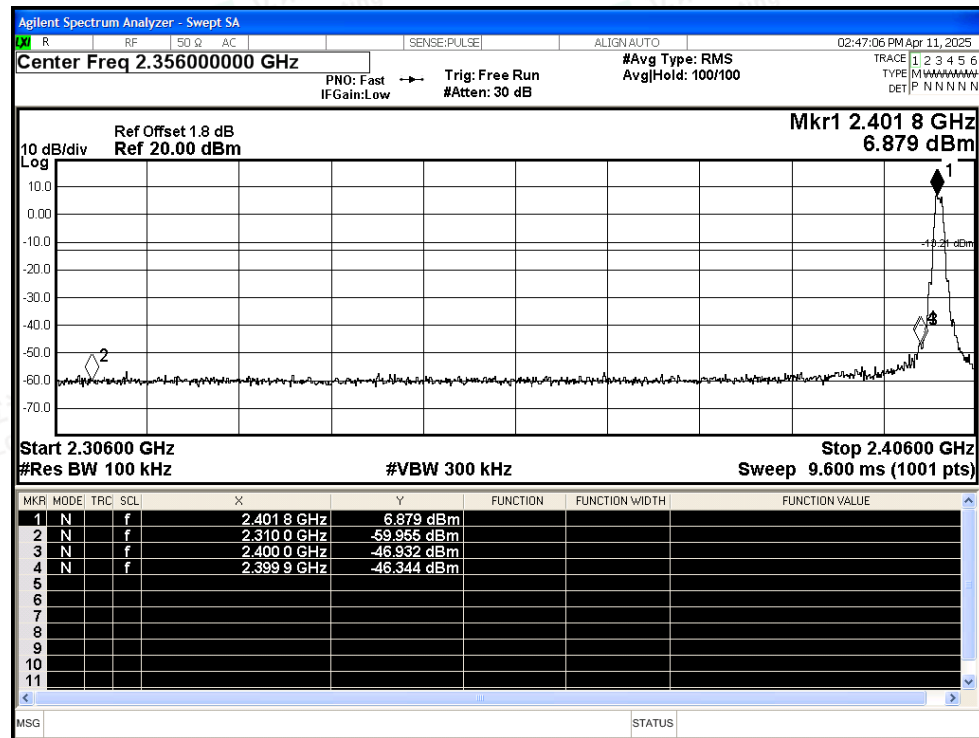


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission

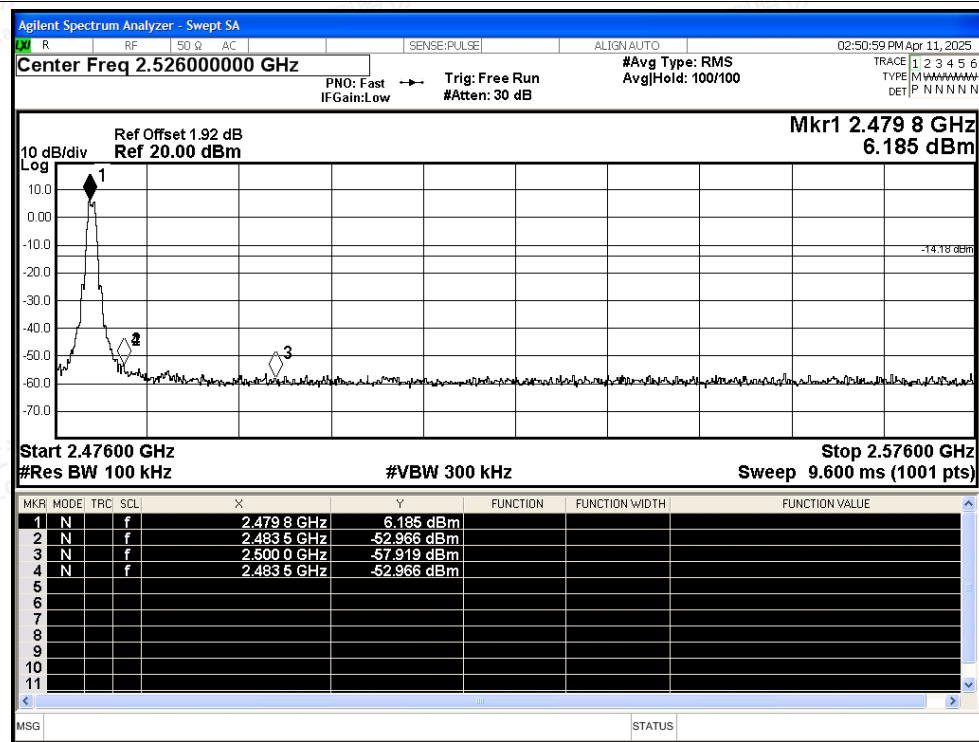




Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission

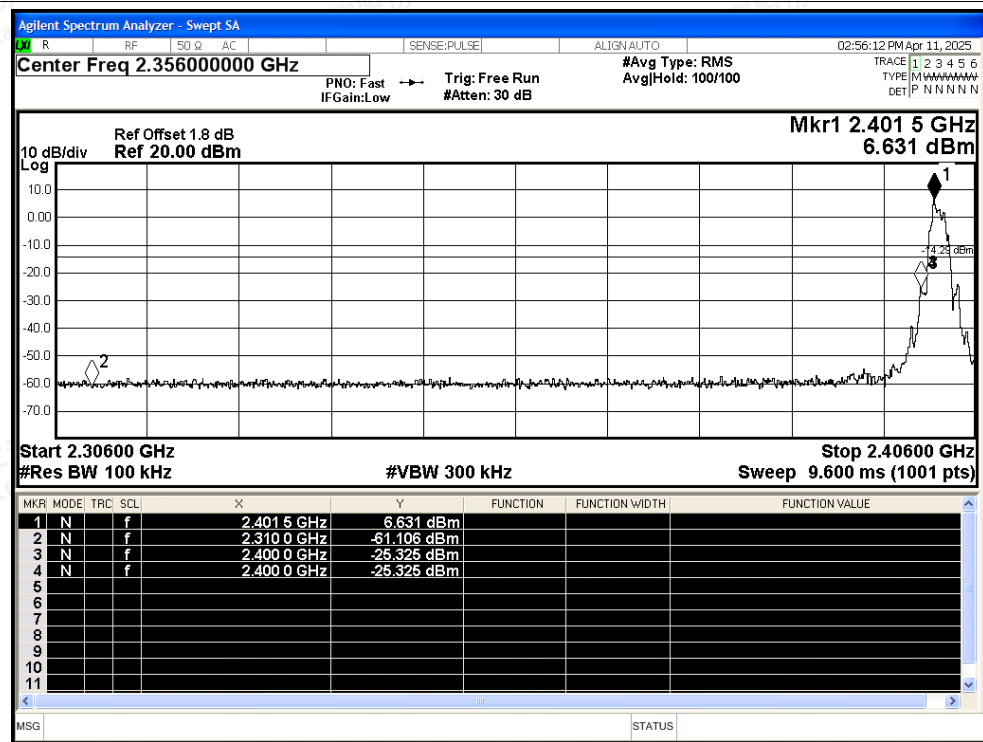




Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission

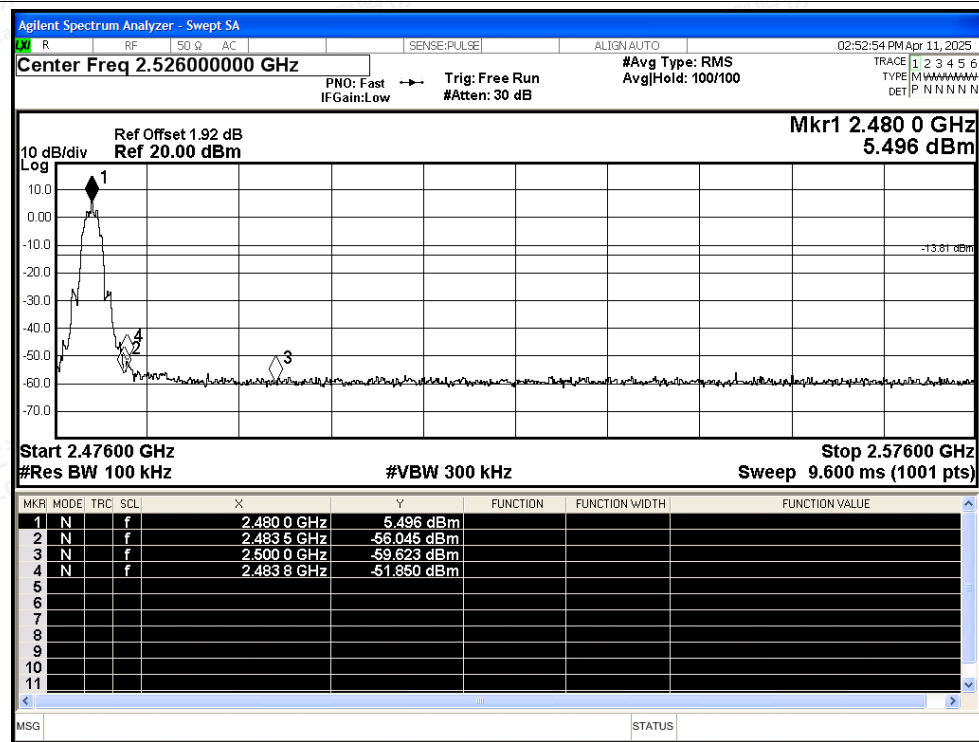




Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission





B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-61.83	-20	Pass
NVNT	BLE 1M	2440	Ant1	-60.72	-20	Pass
NVNT	BLE 1M	2480	Ant1	-61.38	-20	Pass
NVNT	BLE 2M	2402	Ant1	-61.28	-20	Pass
NVNT	BLE 2M	2440	Ant1	-56.98	-20	Pass
NVNT	BLE 2M	2480	Ant1	-61.66	-20	Pass

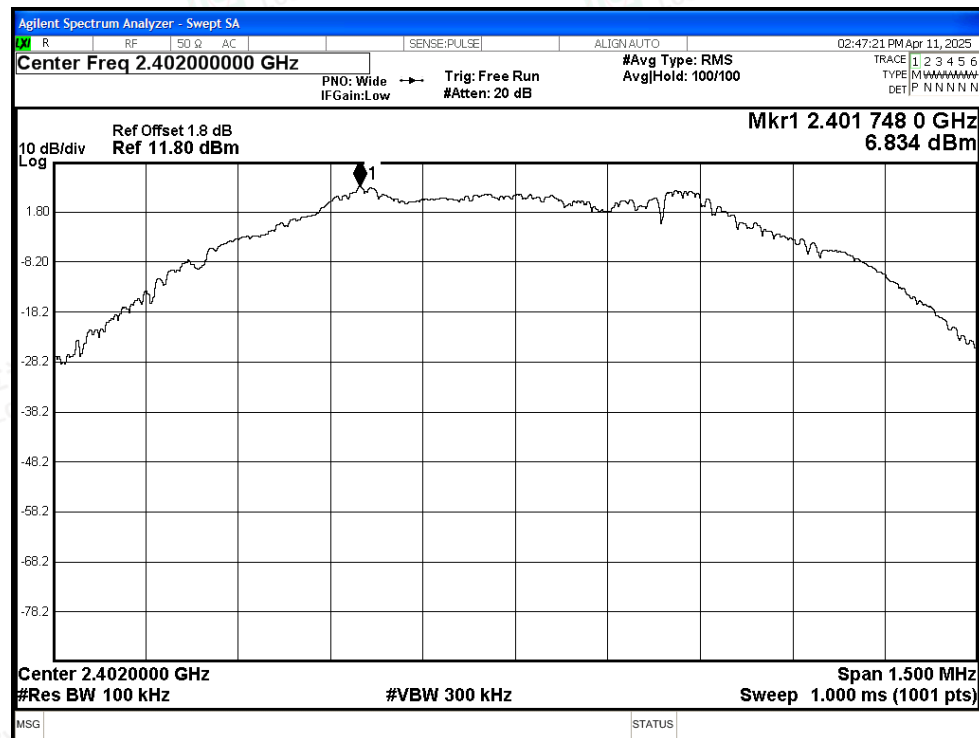


Shenzhen LCS Compliance Testing Laboratory Ltd.
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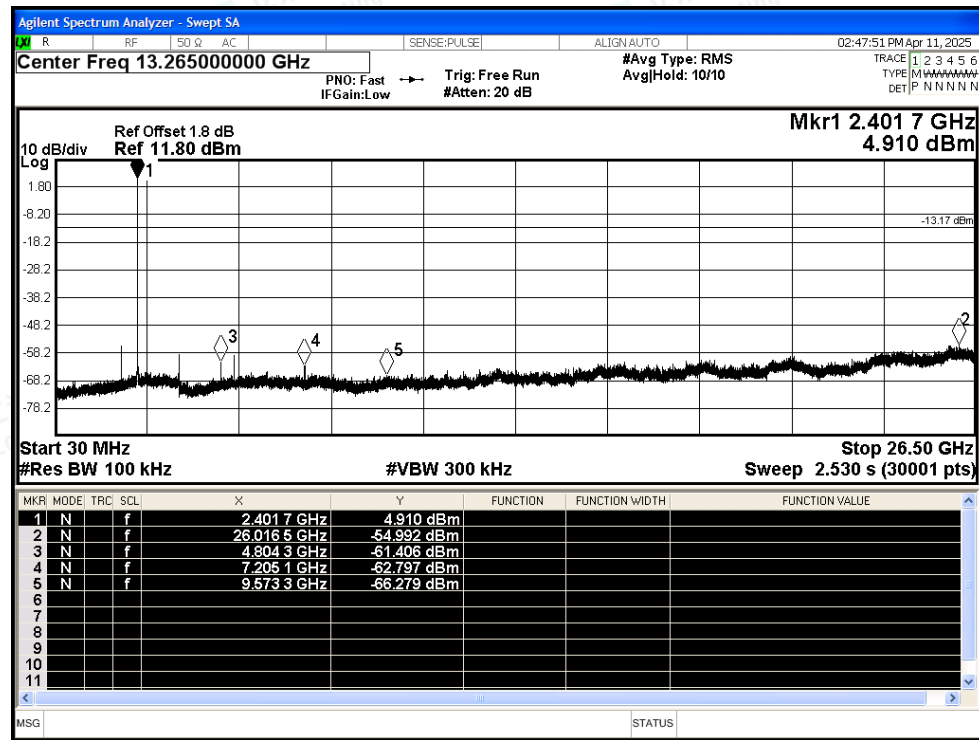


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref

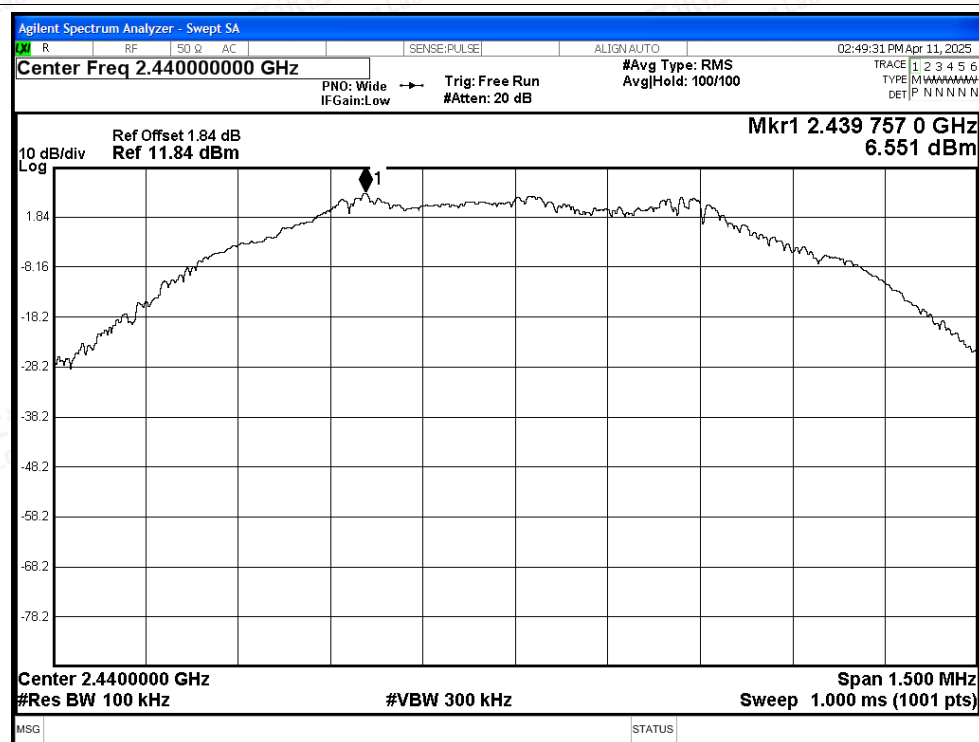


Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission

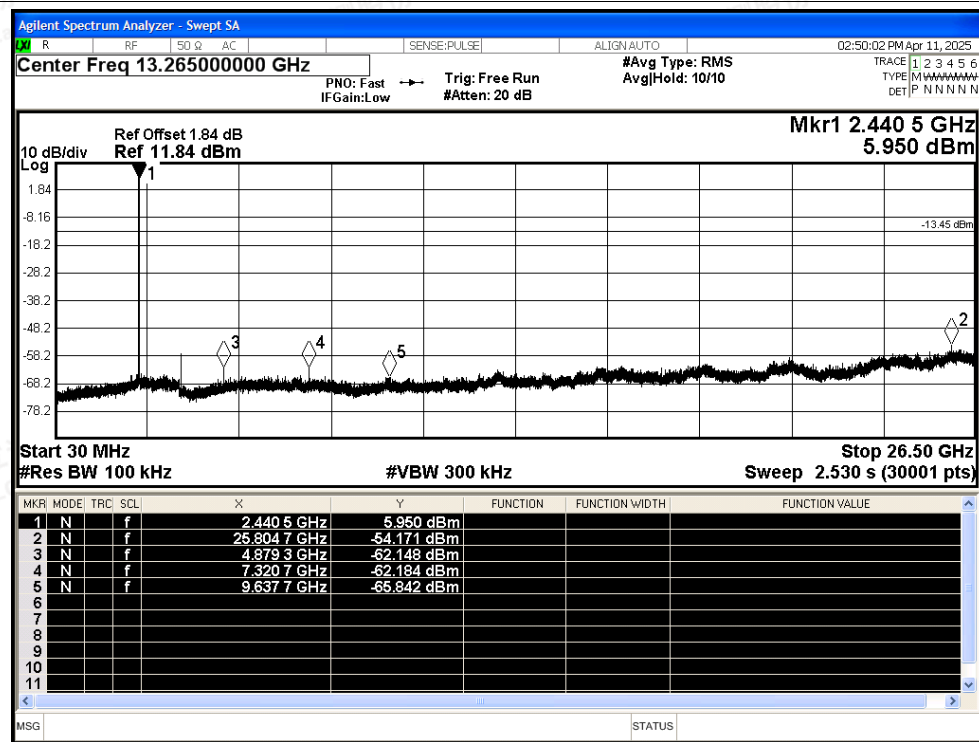




Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref

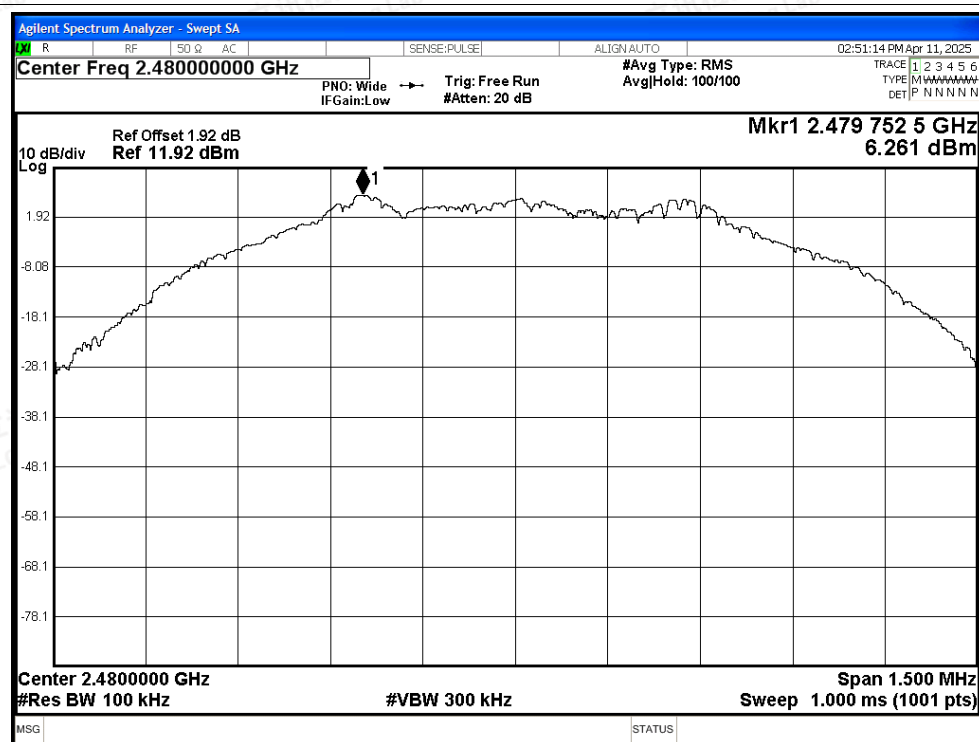


Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission

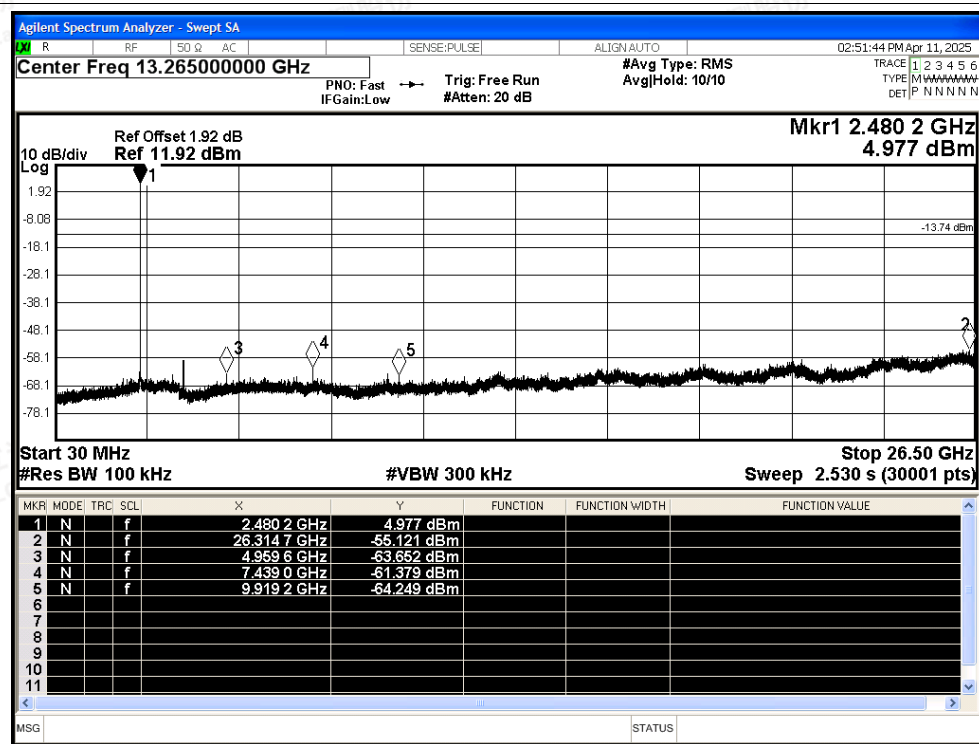




Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission

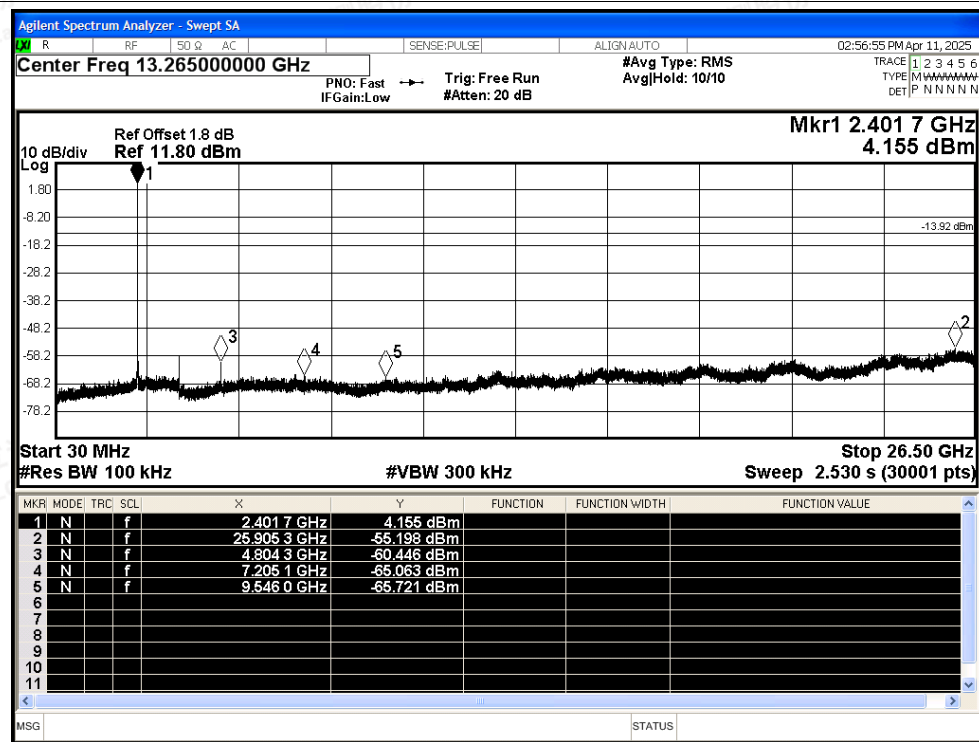




Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref

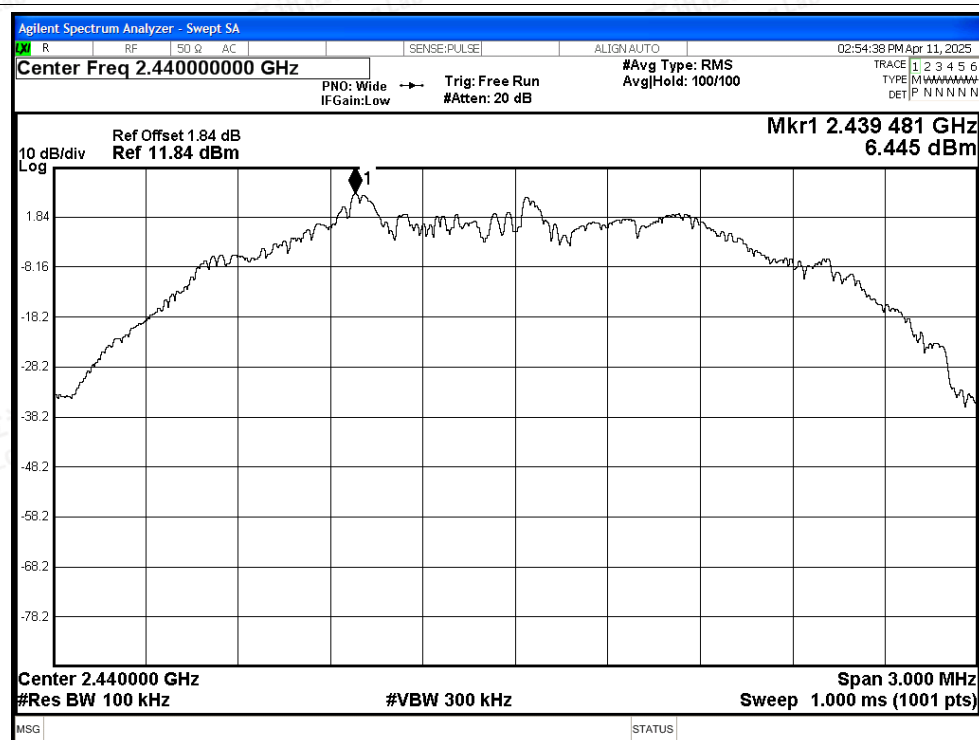


Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission

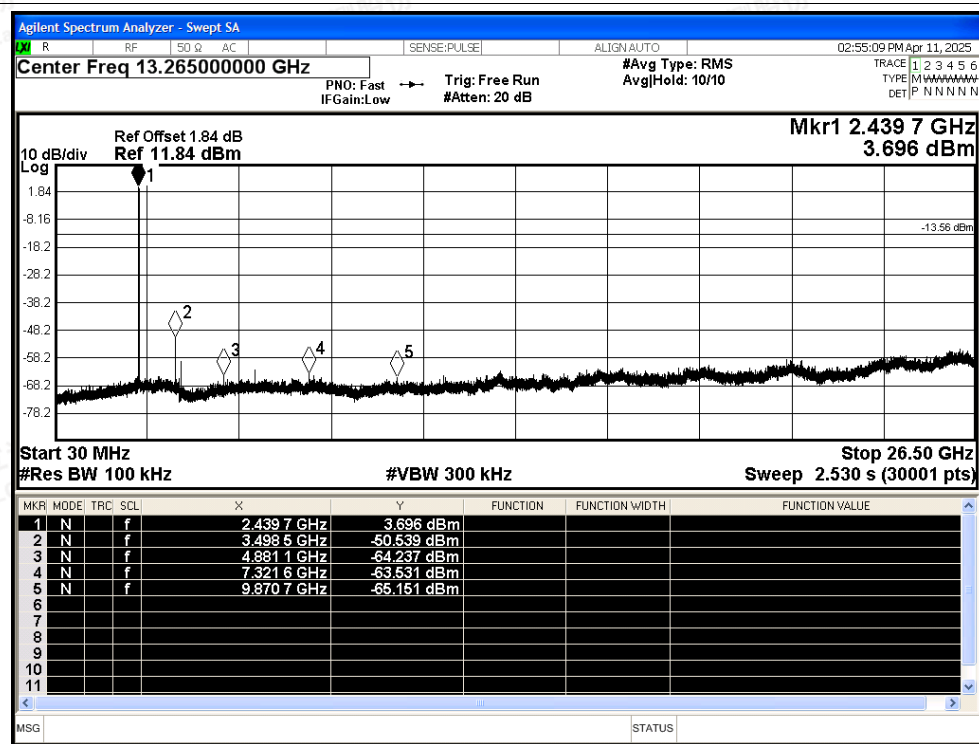




Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref

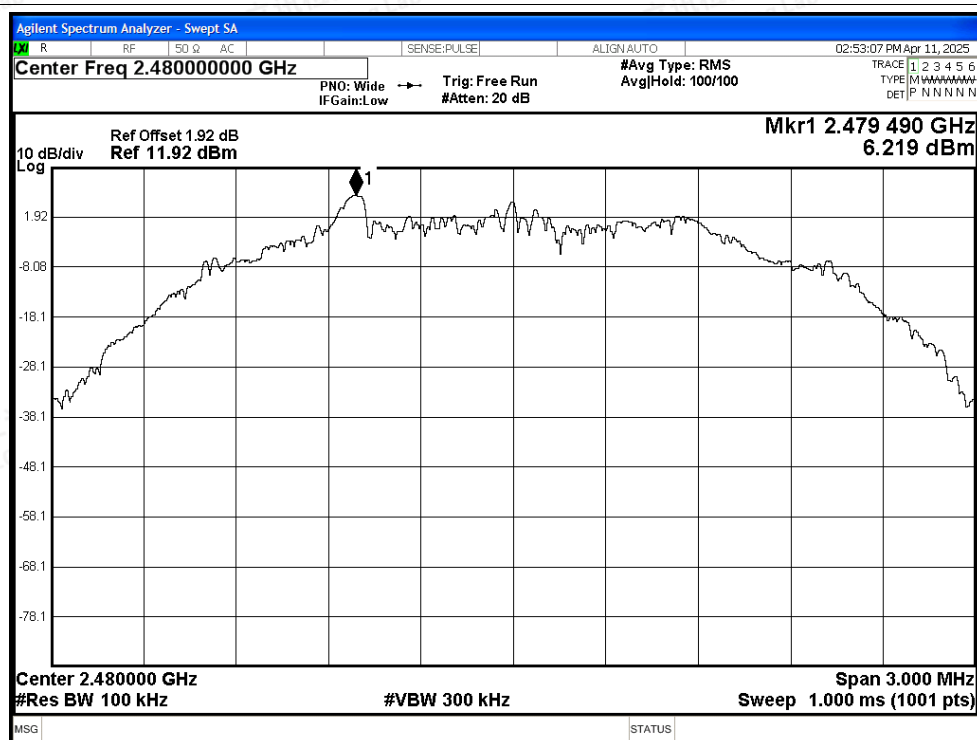


Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission

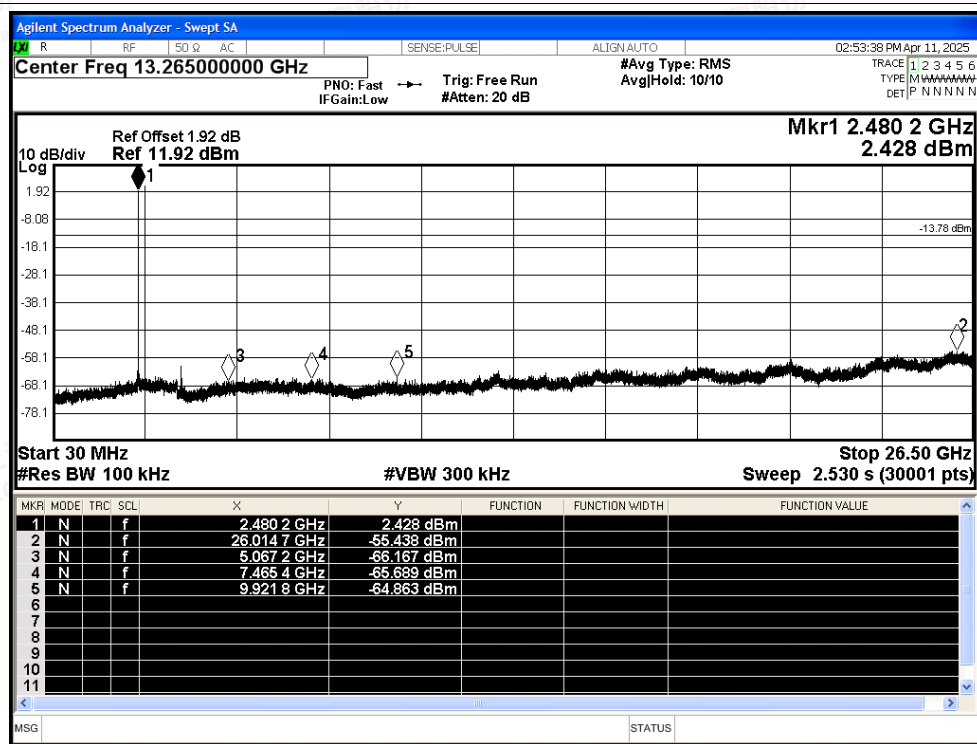




Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission





B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	63.44	1.98	2.52
NVNT	BLE 1M	2440	Ant1	63.39	1.98	2.52
NVNT	BLE 1M	2480	Ant1	63.44	1.98	2.52
NVNT	BLE 2M	2402	Ant1	33.92	4.7	4.72
NVNT	BLE 2M	2440	Ant1	33.92	4.7	4.72
NVNT	BLE 2M	2480	Ant1	33.92	4.7	4.72

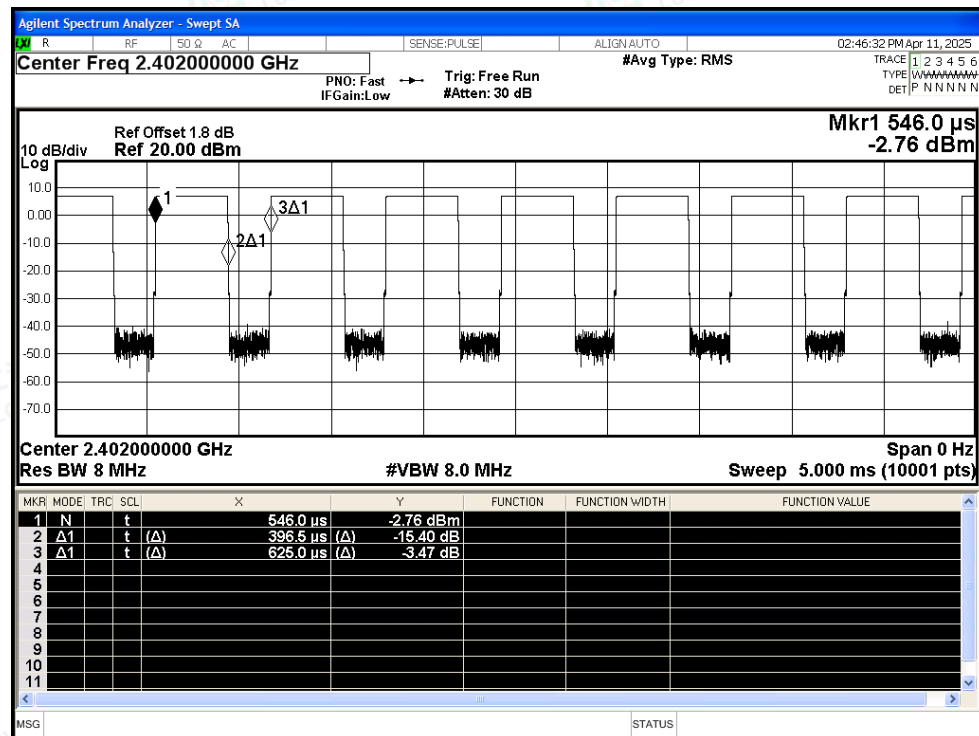


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Building A and 301 Building C, Juji Industrial Park, Yabianxueziwei Shajing Street, Baoan District, Shenzhen, 518000, P.R.C.
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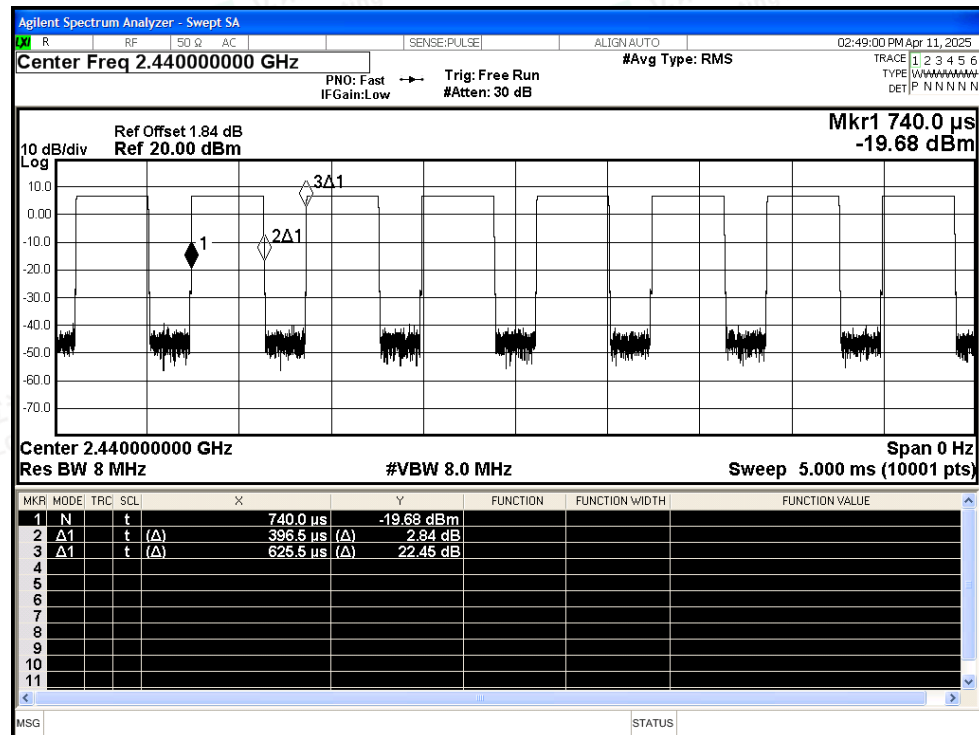


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1

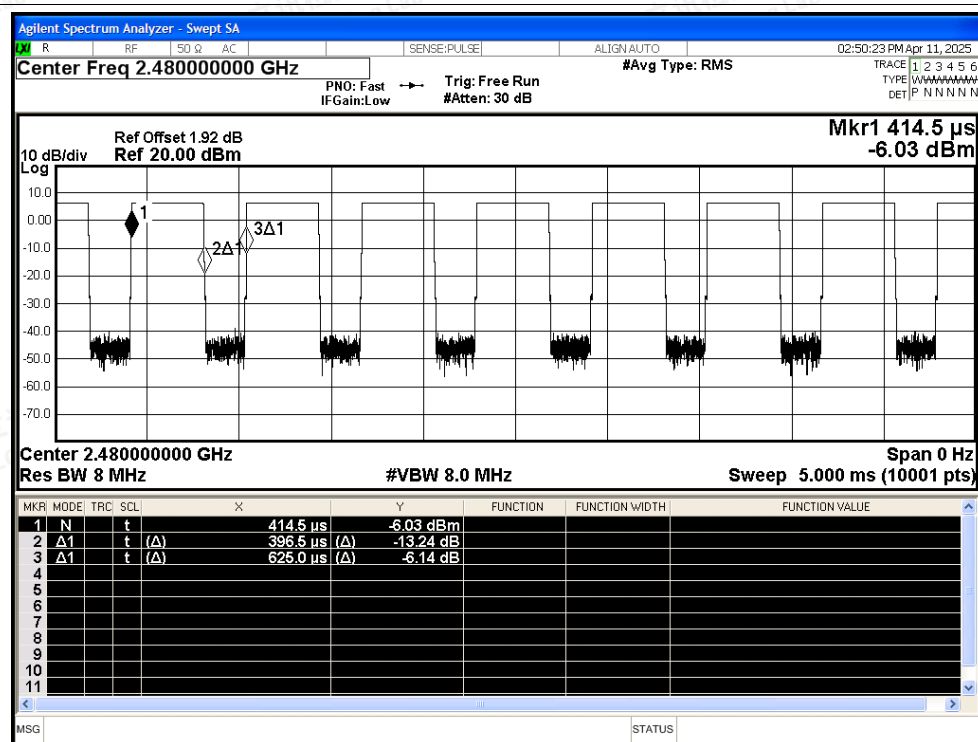


Duty Cycle NVNT BLE 1M 2440MHz Ant1

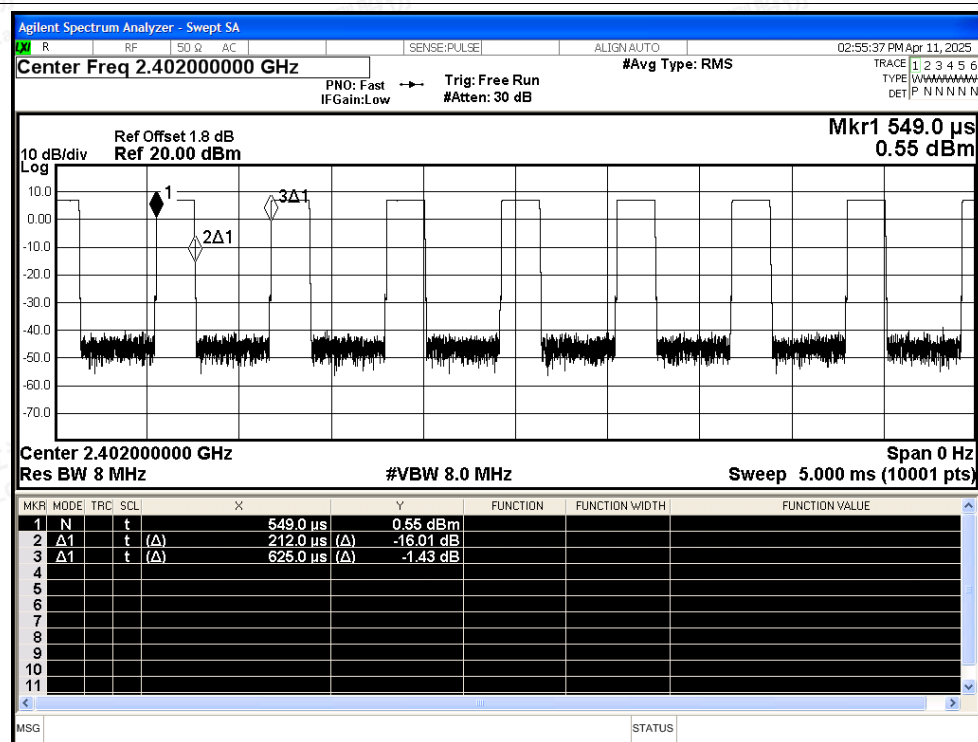




Duty Cycle NVNT BLE 1M 2480MHz Ant1

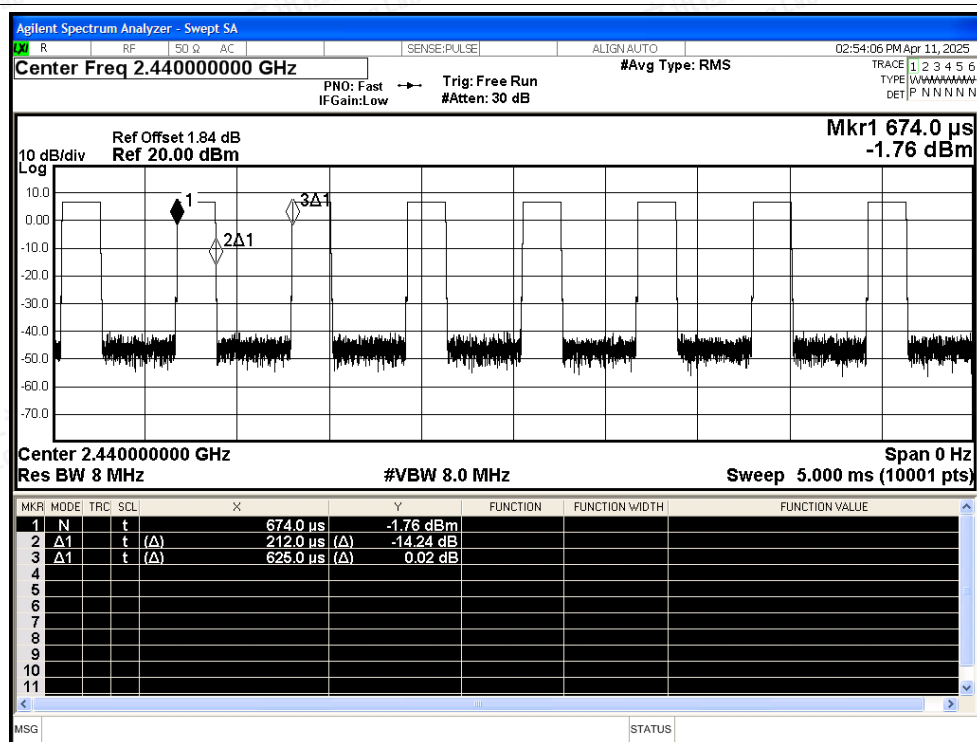


Duty Cycle NVNT BLE 2M 2402MHz Ant1

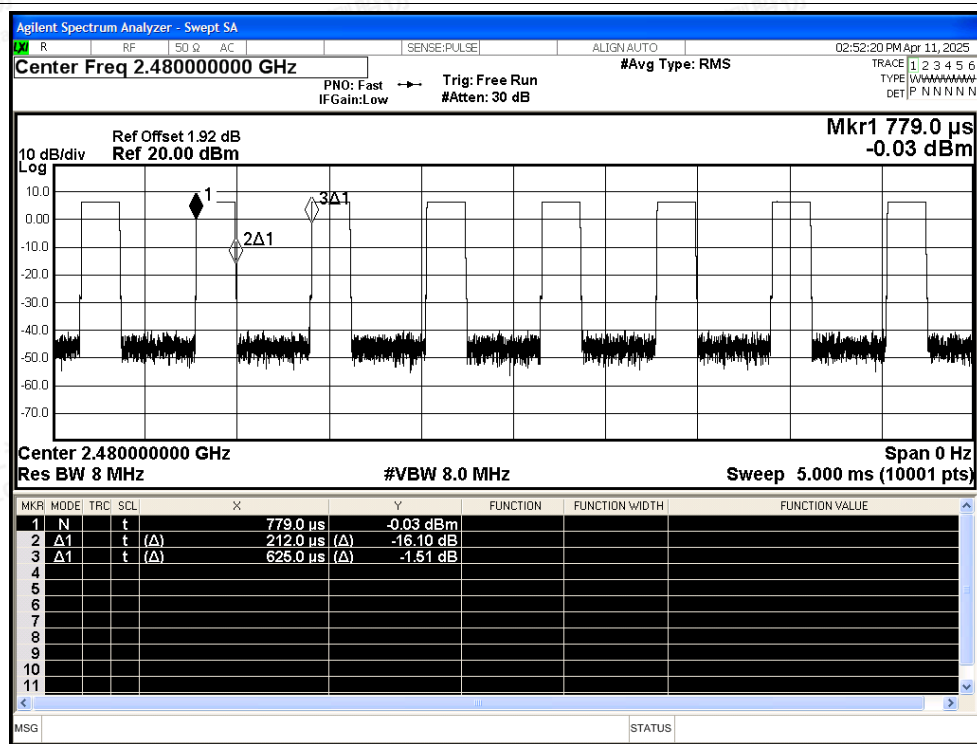




Duty Cycle NVNT BLE 2M 2440MHz Ant1



Duty Cycle NVNT BLE 2M 2480MHz Ant1





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	-51.39	2	-	45.87	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.58	2	1.98	40.66	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2372.688	-47.62	2	-	49.64	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2389.968	-57.3	2	1.98	41.94	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-49.21	2	-	48.05	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-57.3	2	1.98	41.94	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-38.44	2	-	58.82	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-55.05	2	1.98	44.19	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.752	-35.11	2	-	62.15	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.536	-54.79	2	1.98	44.45	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-50.51	2	-	46.75	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.08	2	1.98	41.16	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2310	-50.18	2	-	47.08	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2310	-58.94	2	4.7	43.02	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2389.488	-47.05	2	-	50.21	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2388.144	-57.67	2	4.7	44.29	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2390	-50.42	2	-	46.84	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2390	-58.09	2	4.7	43.87	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-38.04	2	-	59.22	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-49.8	2	4.7	52.16	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.944	-35.71	2	-	61.55	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.512	-49.8	2	4.7	52.16	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2500	-50.08	2	-	47.18	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2500	-58.24	2	4.7	43.72	Average	54	Pass

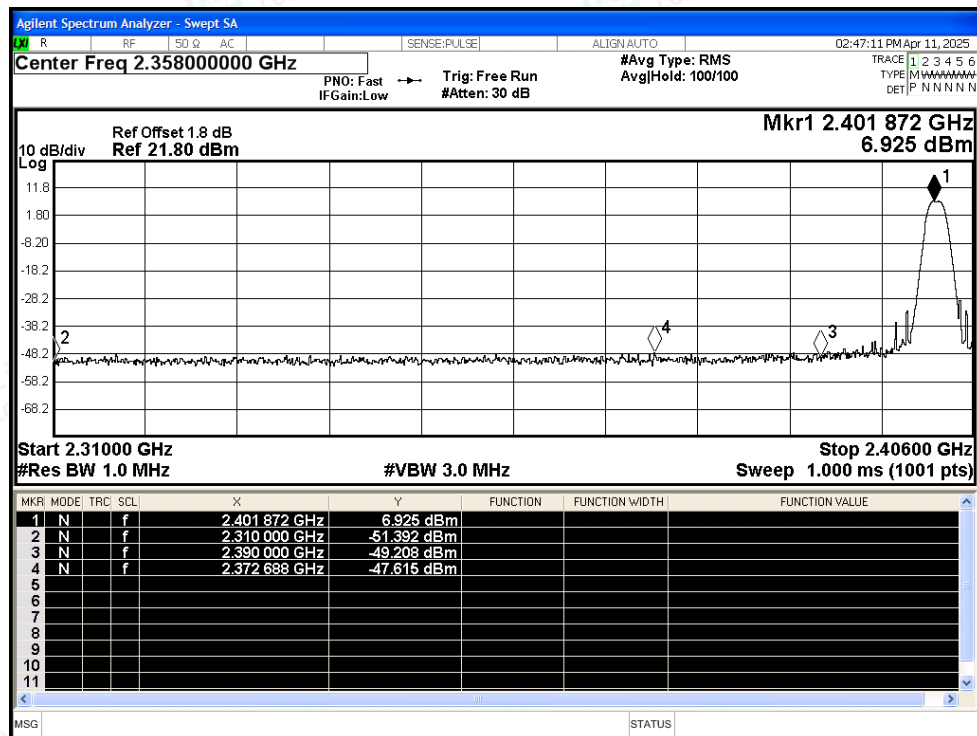


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Building A and 301 Building C, Juji Industrial Park, Yabianxueziwei Shajing Street, Baoan District, Shenzhen, 518000, P.R.C.
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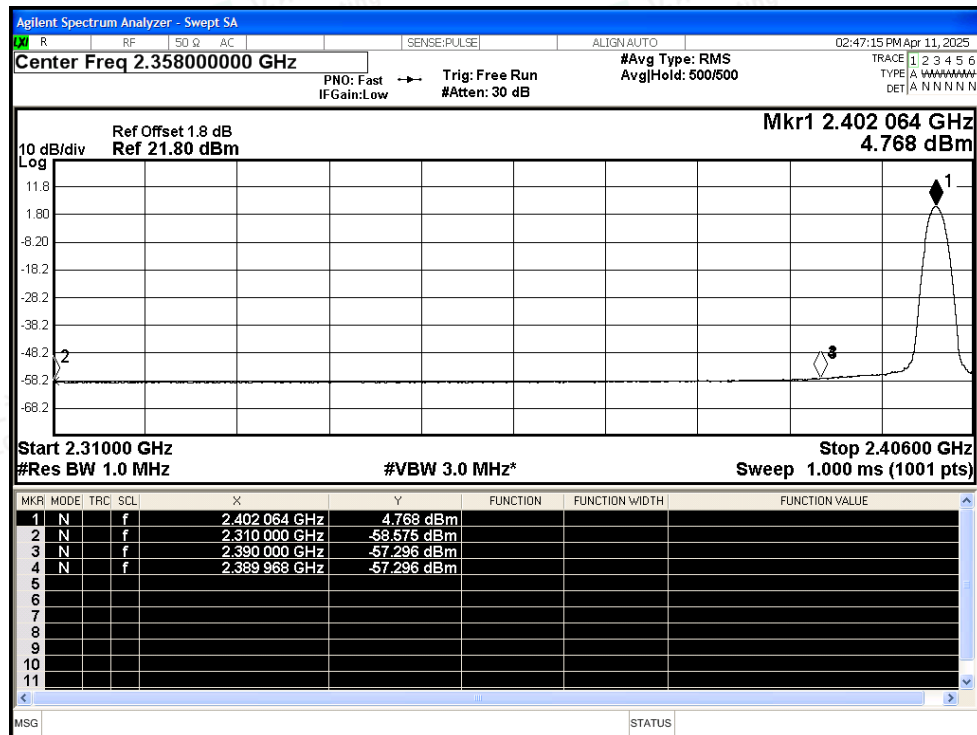


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak

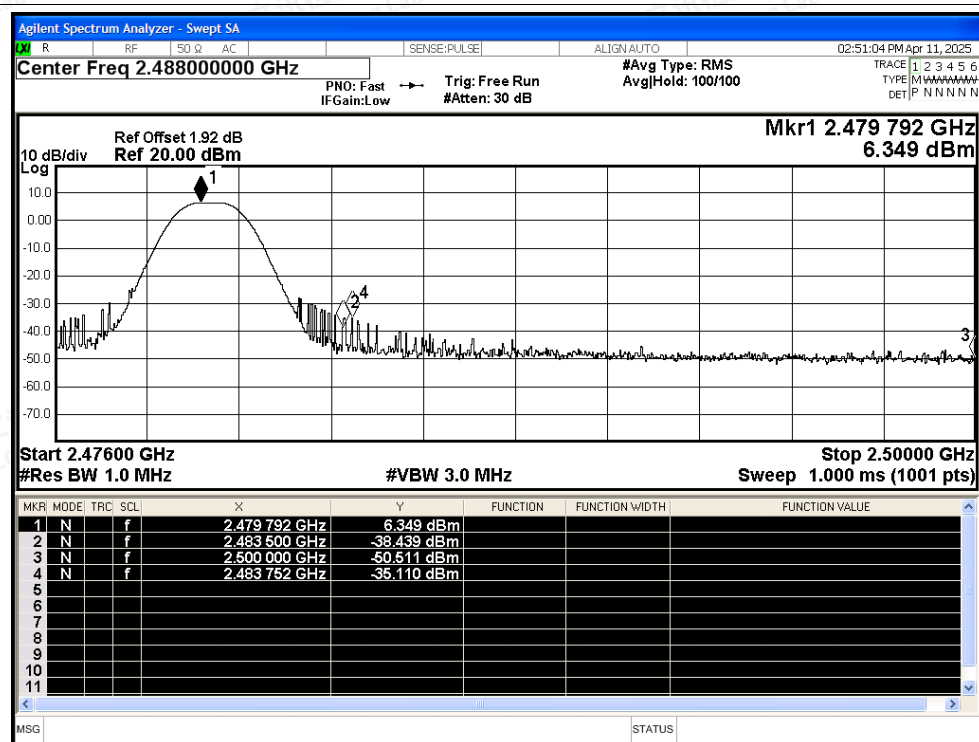


Restrict Band NVNT BLE 1M 2402MHz Ant1 Average

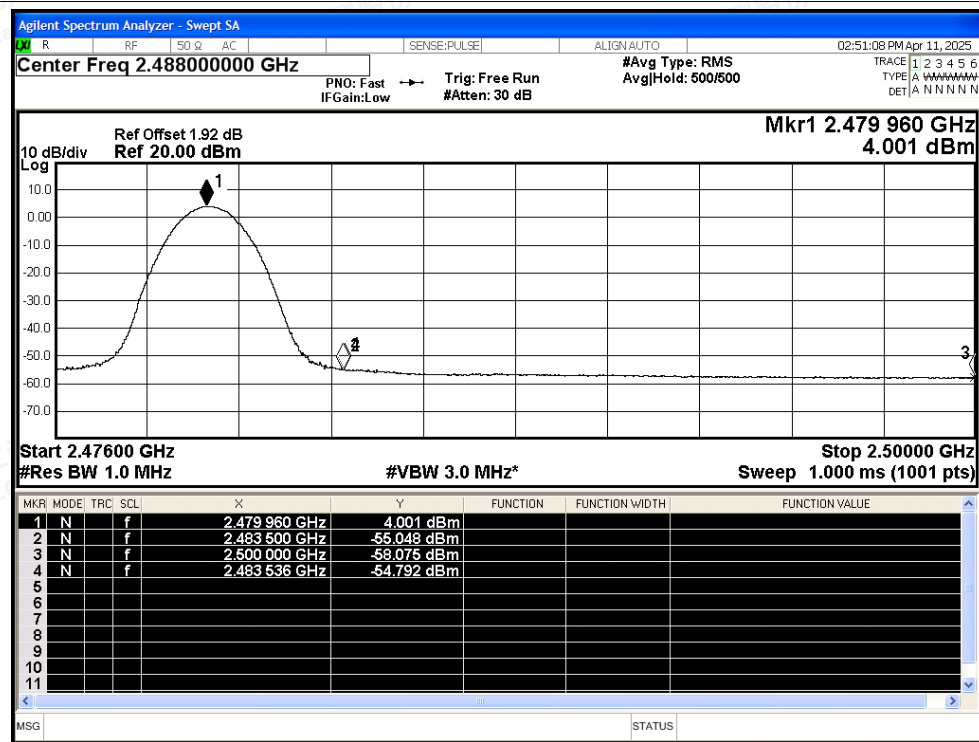




Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak

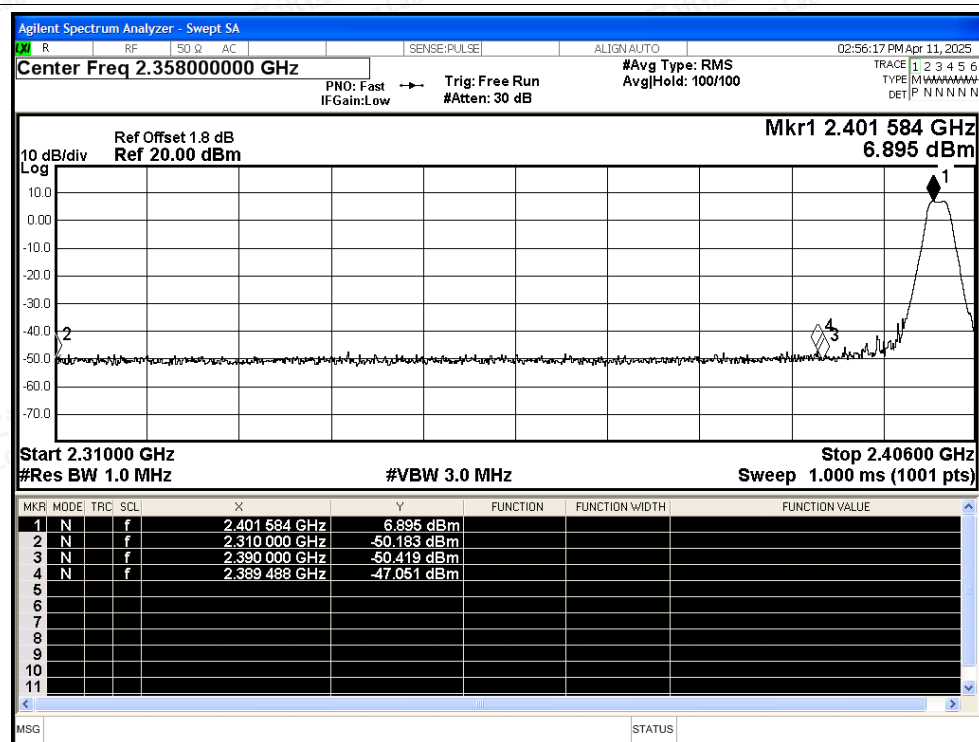


Restrict Band NVNT BLE 1M 2480MHz Ant1 Average

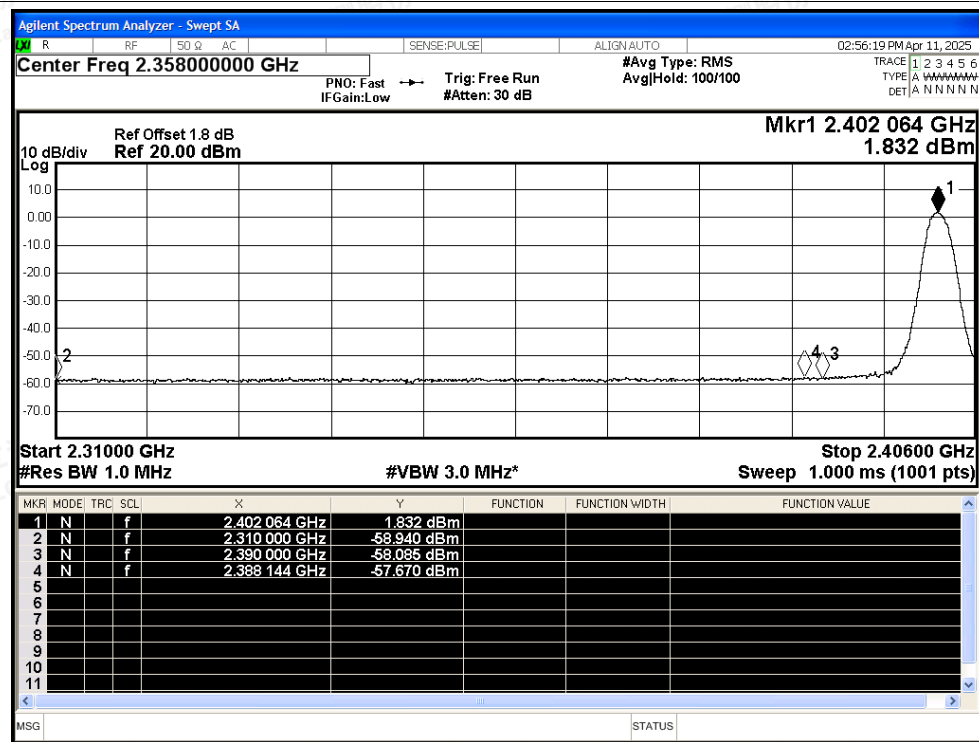




Restrict Band NVNT BLE 2M 2402MHz Ant1 Peak

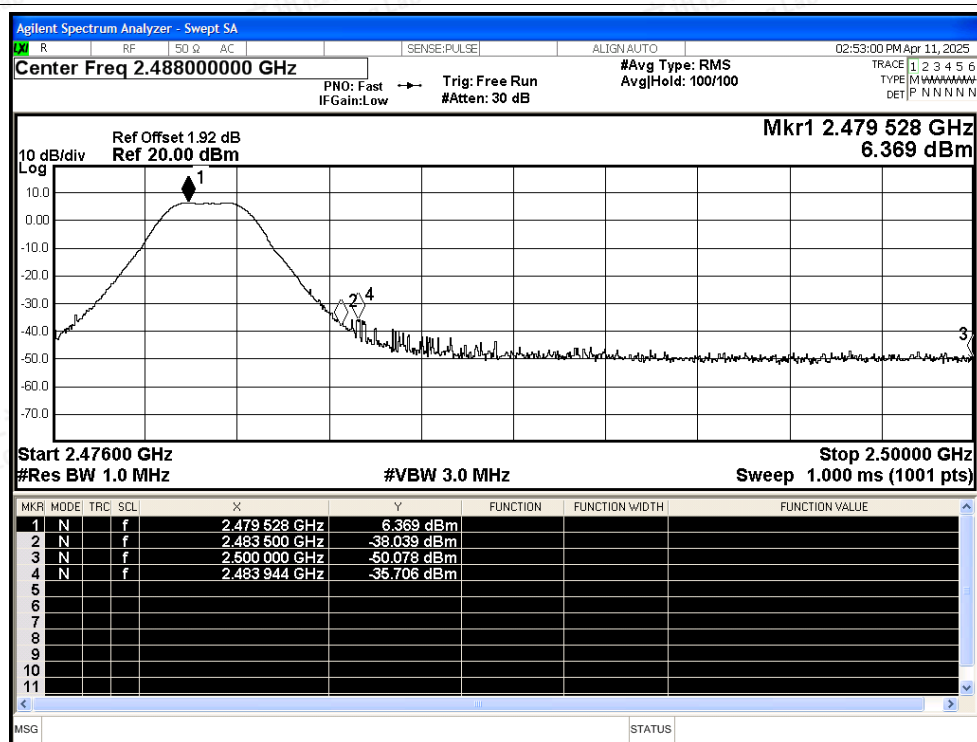


Restrict Band NVNT BLE 2M 2402MHz Ant1 Average





Restrict Band NVNT BLE 2M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2480MHz Ant1 Average

