



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Smart Battery Camera

Test Model: V6-WNQ-03

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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A.1 -6dB Bandwidth

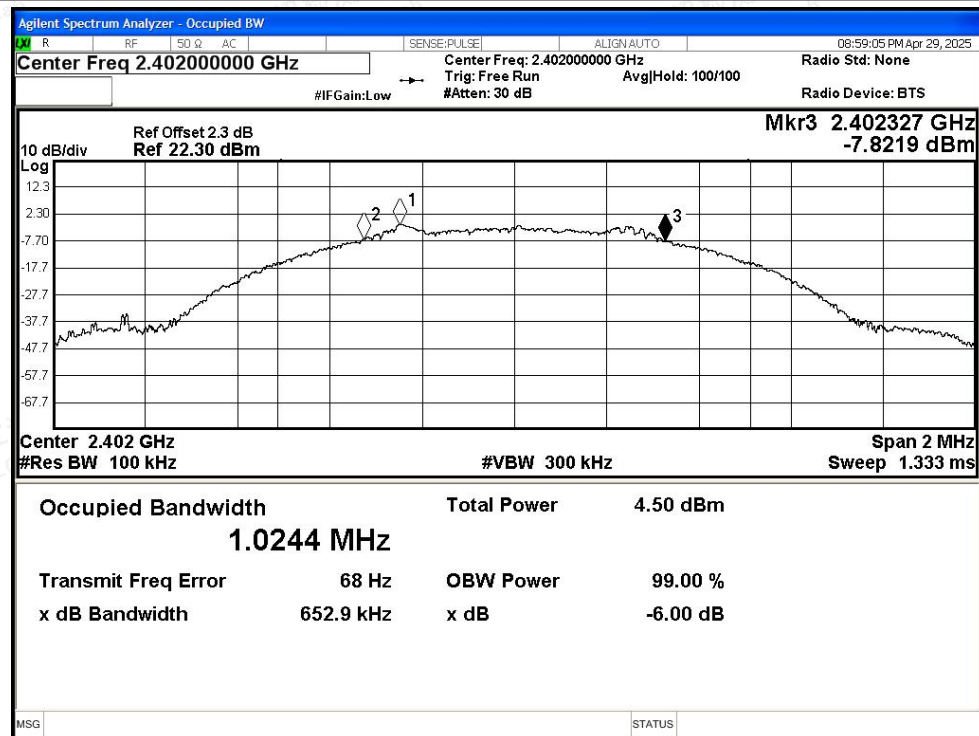
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.653	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.65	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.662	≥ 0.5	Pass





Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

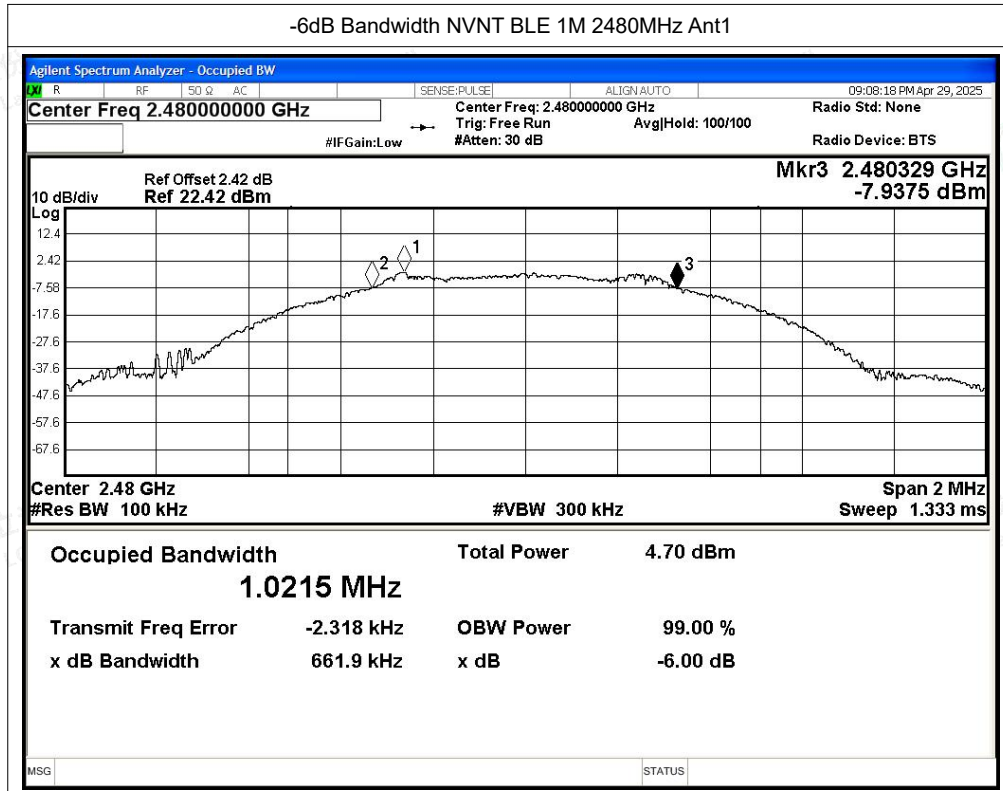


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A.2 Maximum Peak Conducted Output Power

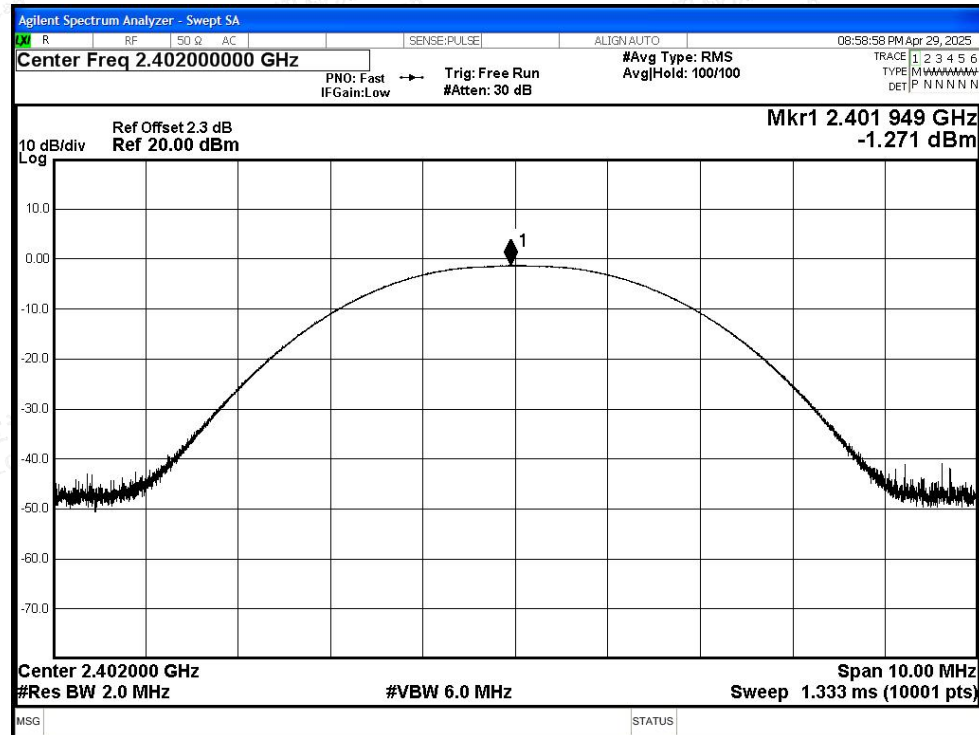
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-1.27	30	Pass
NVNT	BLE 1M	2440	Ant1	1.39	30	Pass
NVNT	BLE 1M	2480	Ant1	-1.84	30	Pass



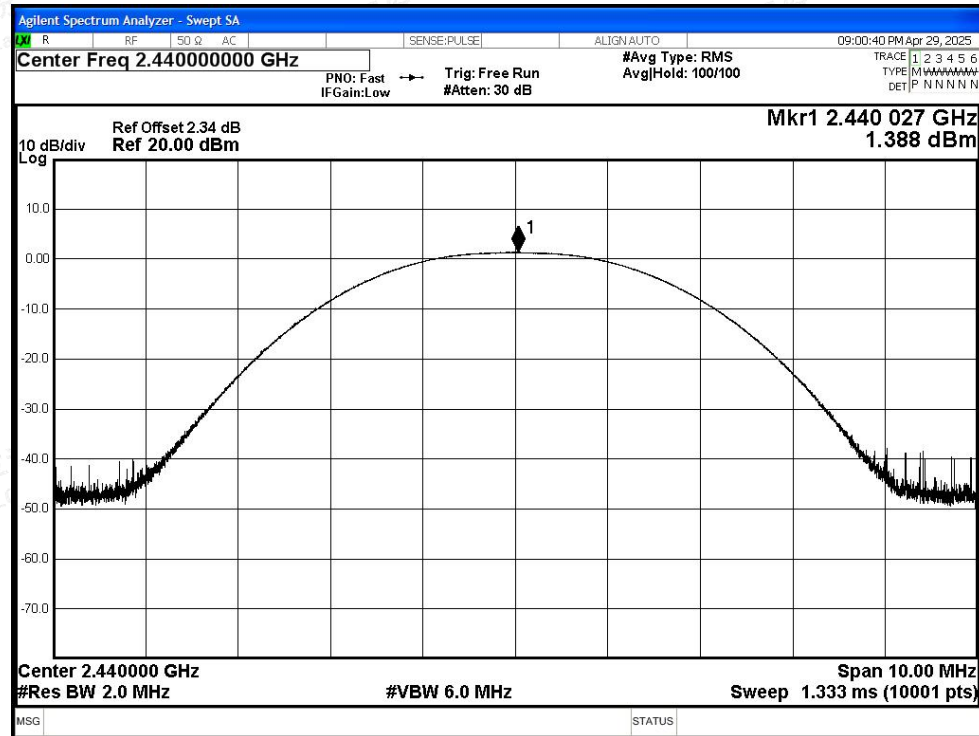


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

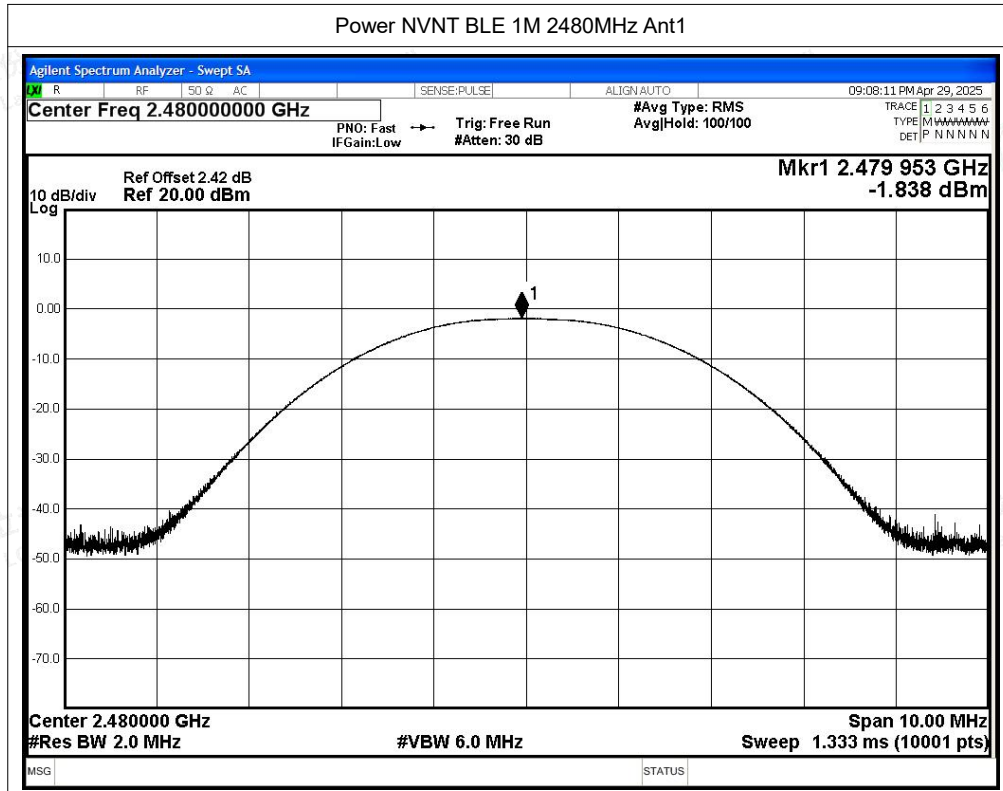


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A.3 Maximum Power Spectral Density Level

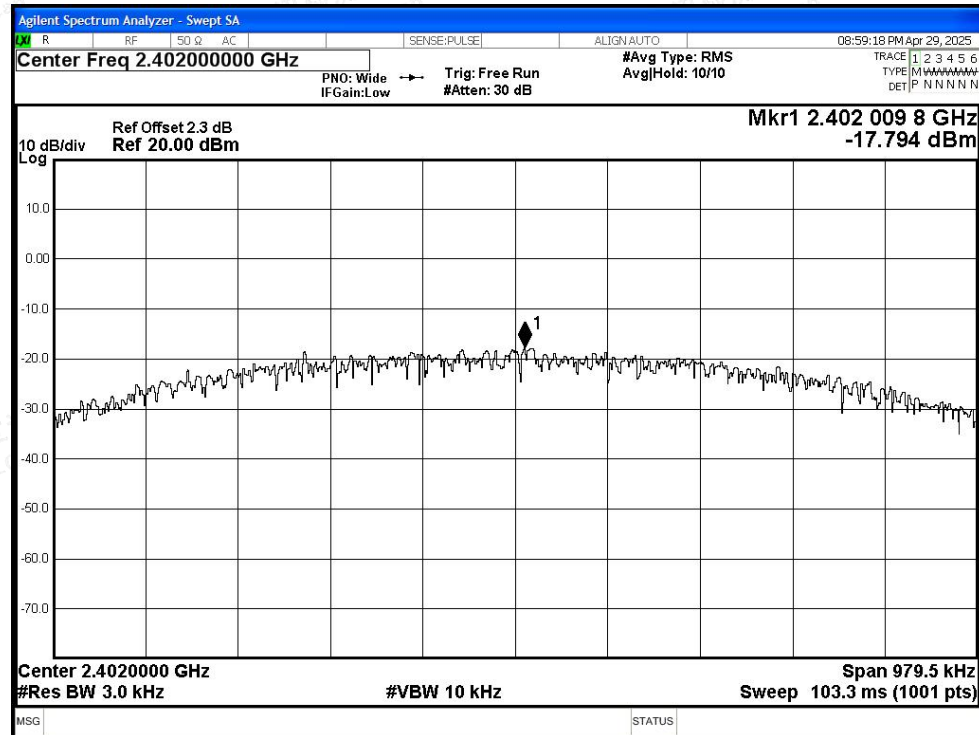
Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-17.79	8	Pass
NVNT	BLE 1M	2440	Ant1	-15.72	8	Pass
NVNT	BLE 1M	2480	Ant1	-17.71	8	Pass



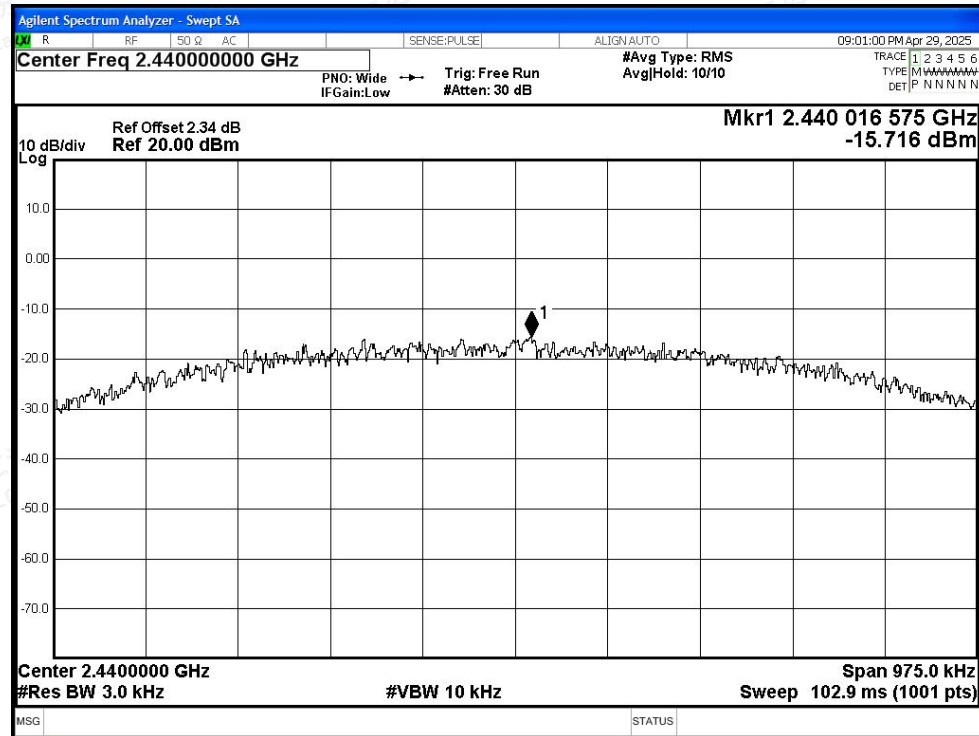


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

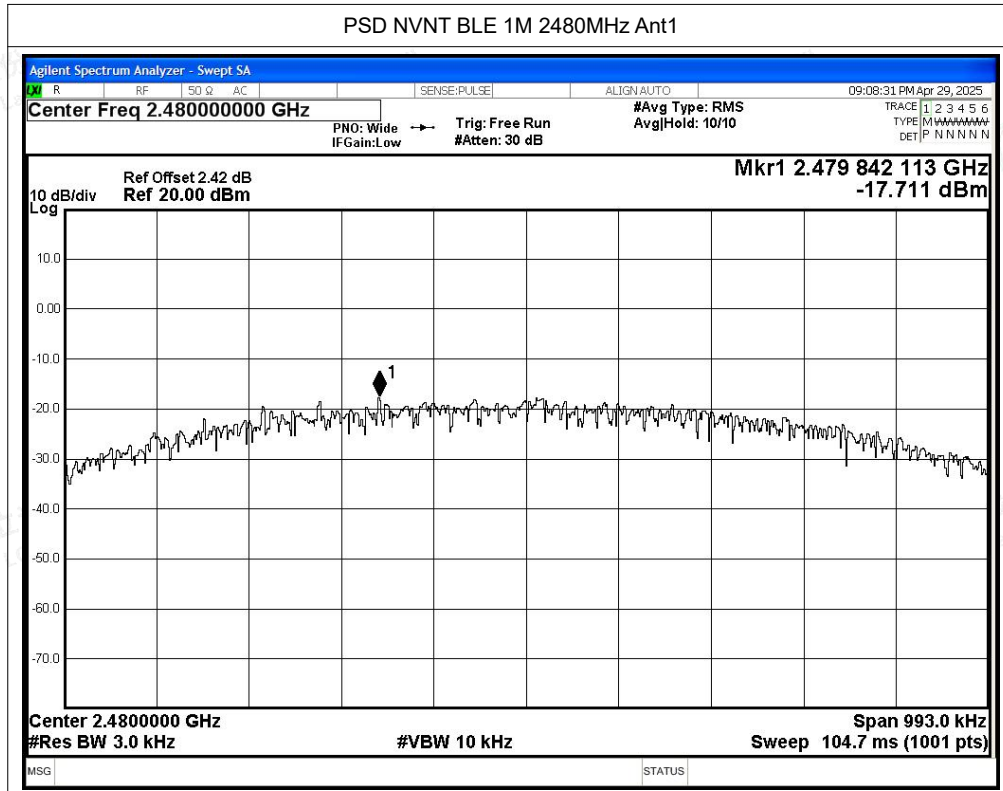


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A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-54.37	-20	Pass
NVNT	BLE 1M	2480	Ant1	-55.4	-20	Pass

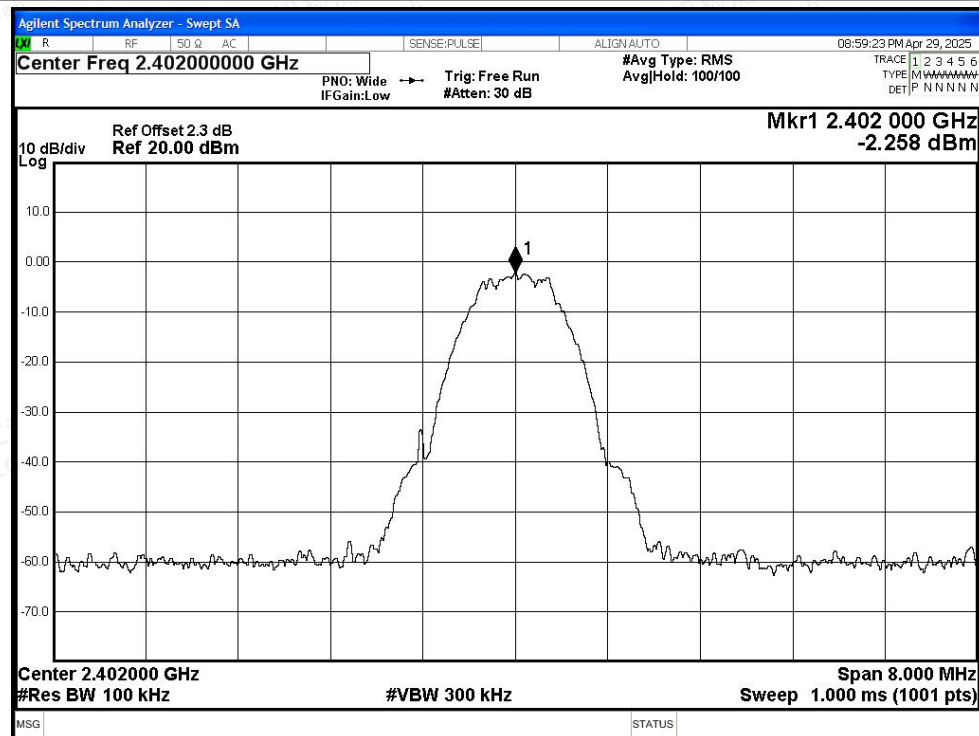


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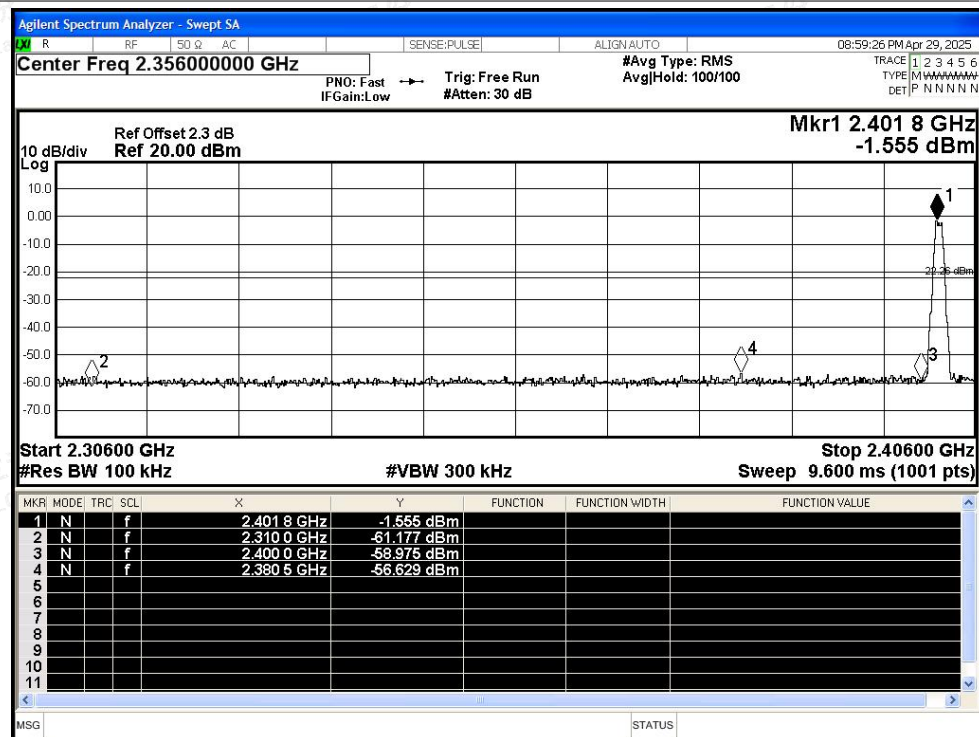


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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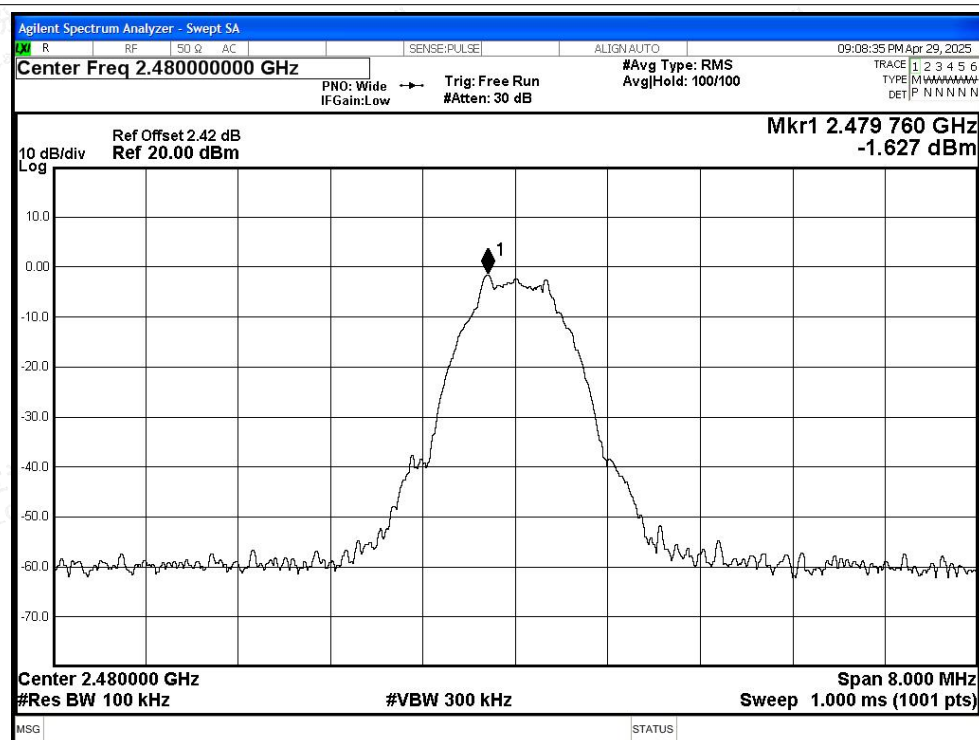
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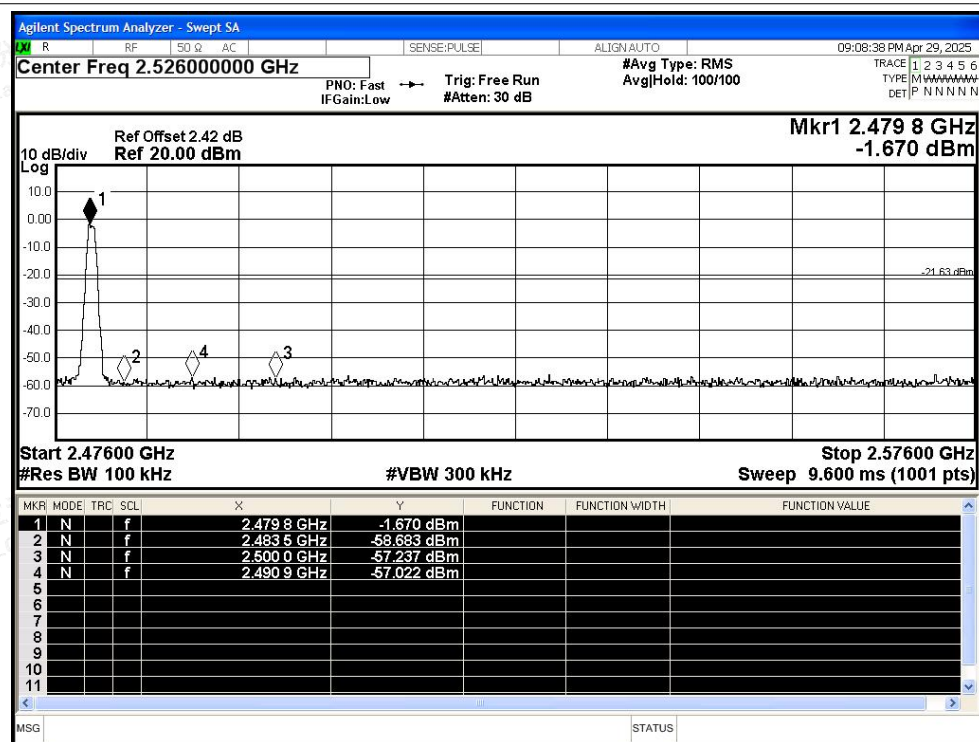
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-54.21	-20	Pass
NVNT	BLE 1M	2440	Ant1	-54.85	-20	Pass
NVNT	BLE 1M	2480	Ant1	-53.99	-20	Pass

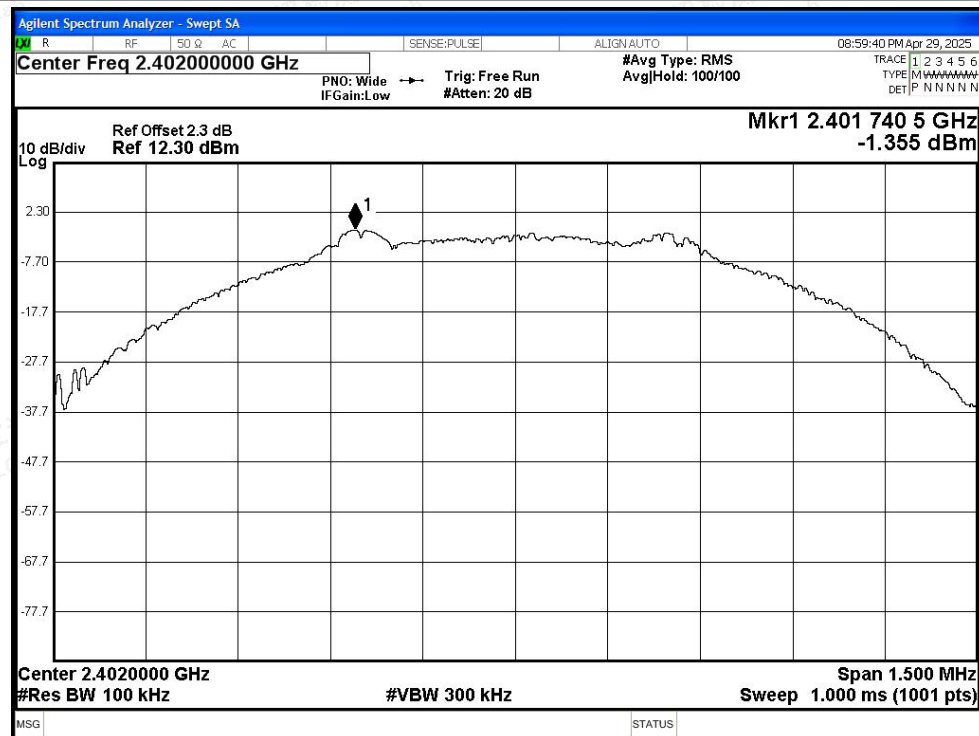


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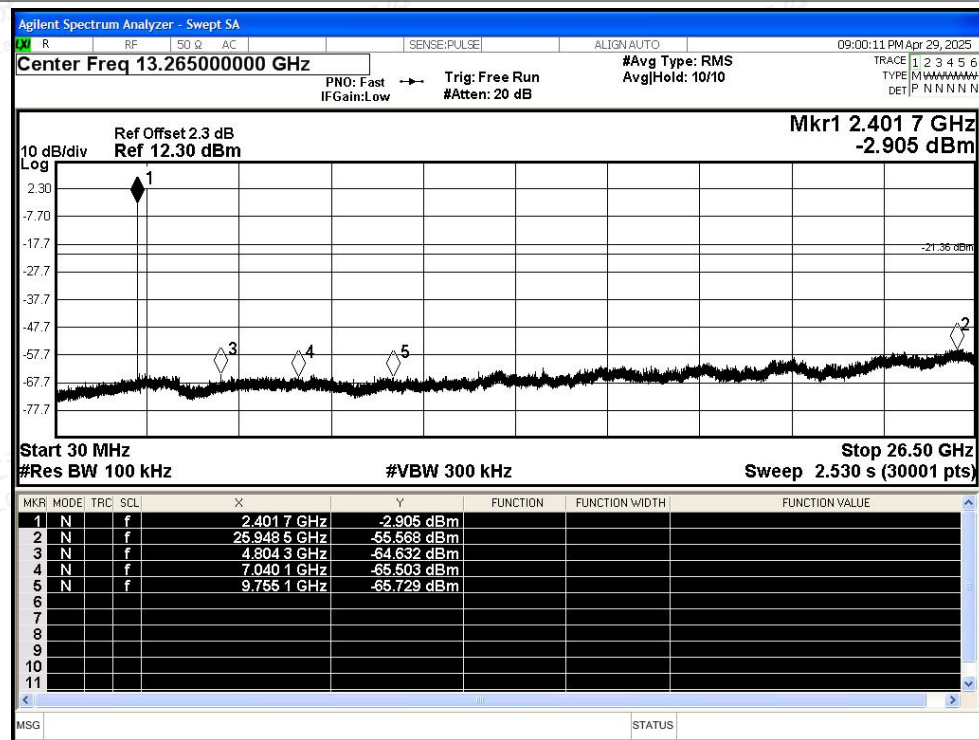


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

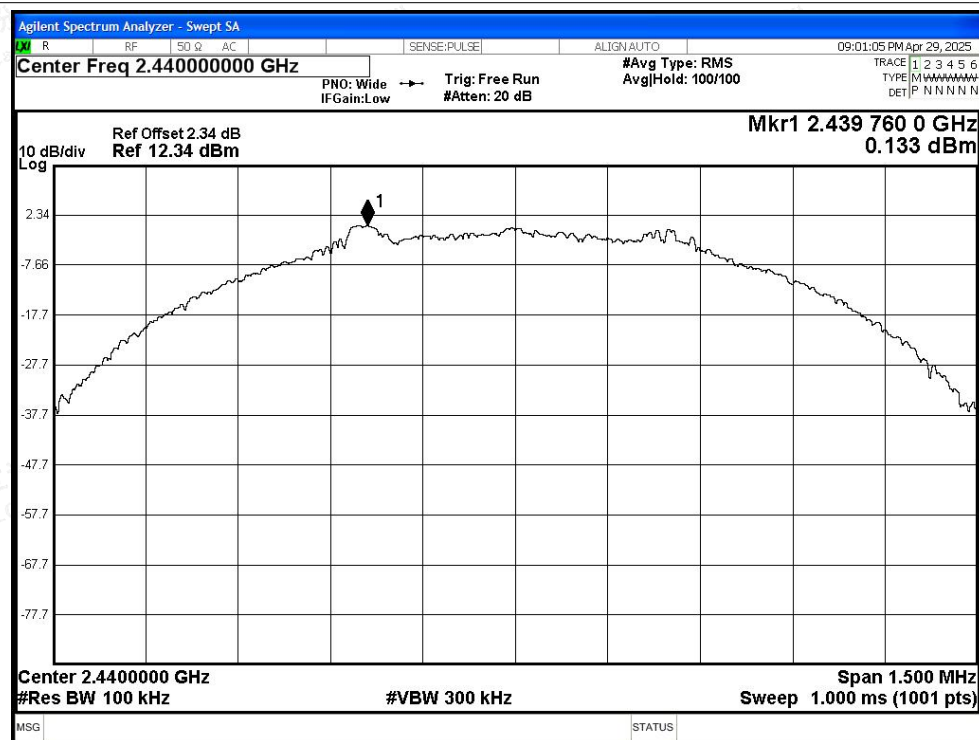
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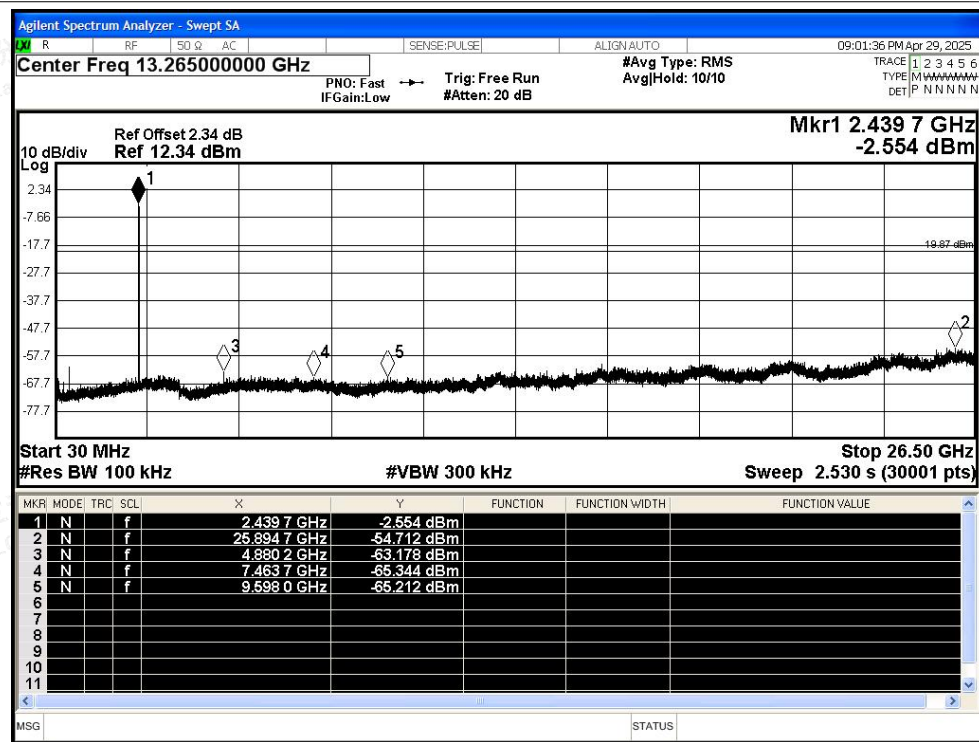
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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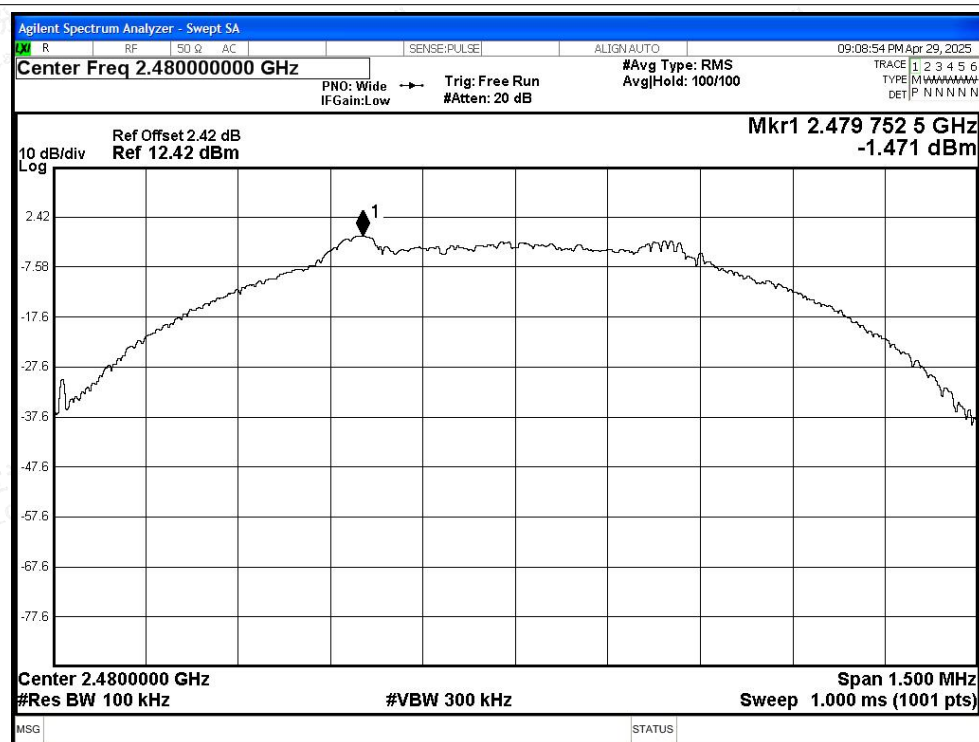
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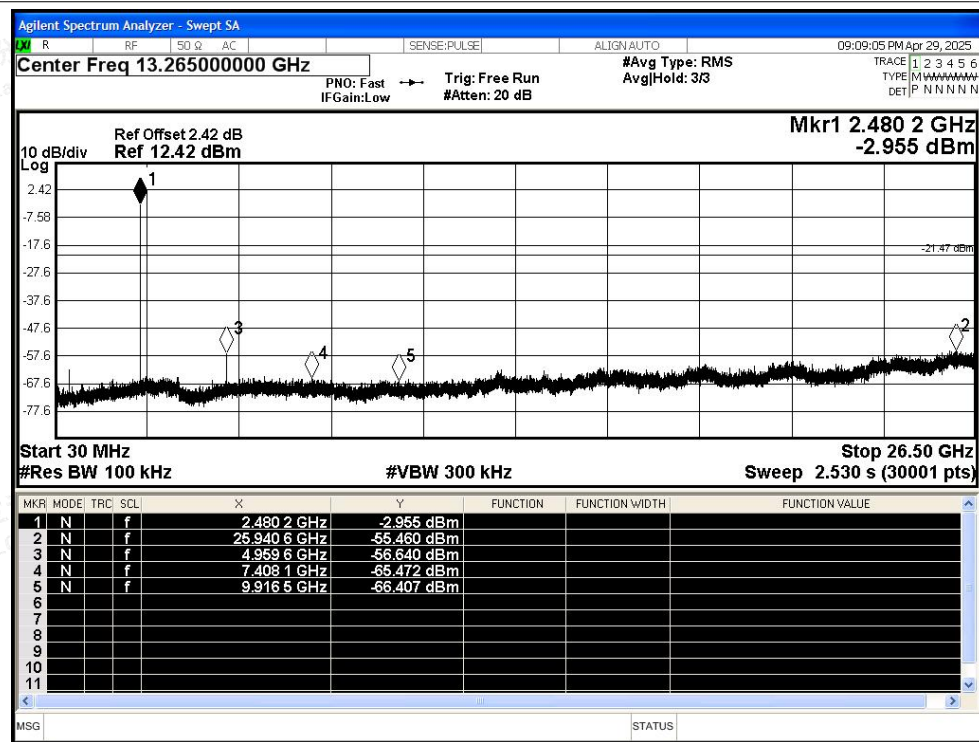
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	87.39	0.59	0.61
NVNT	BLE 1M	2440	Ant1	87.39	0.59	0.61
NVNT	BLE 1M	2480	Ant1	87.39	0.59	0.61

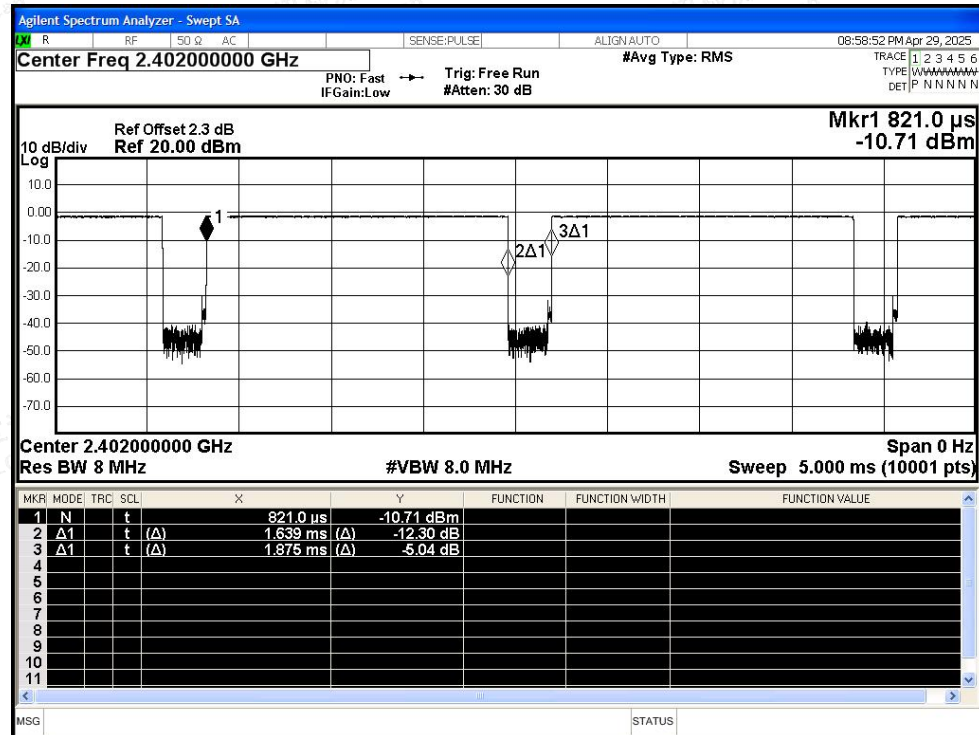


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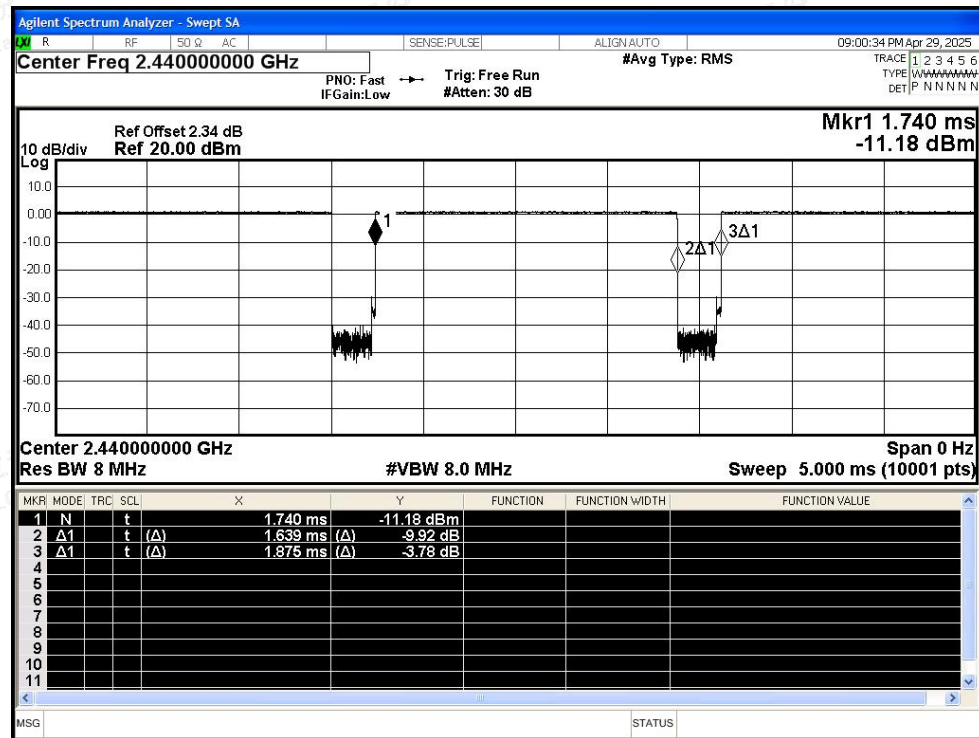


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

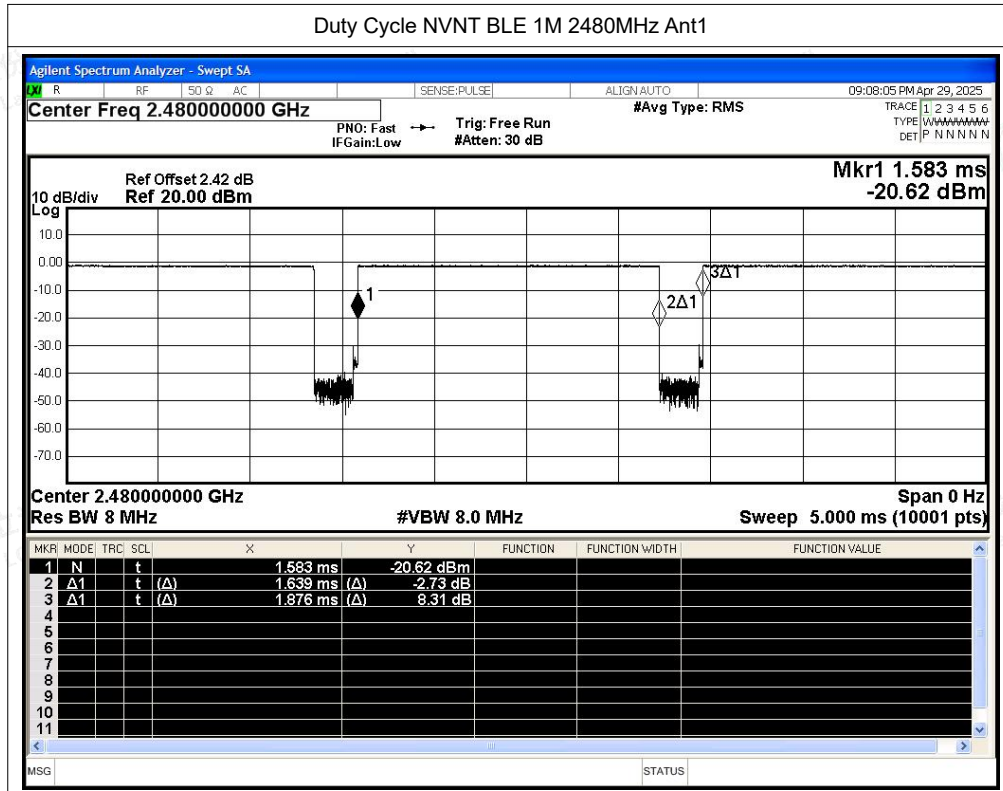


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A.7 Restrict Band

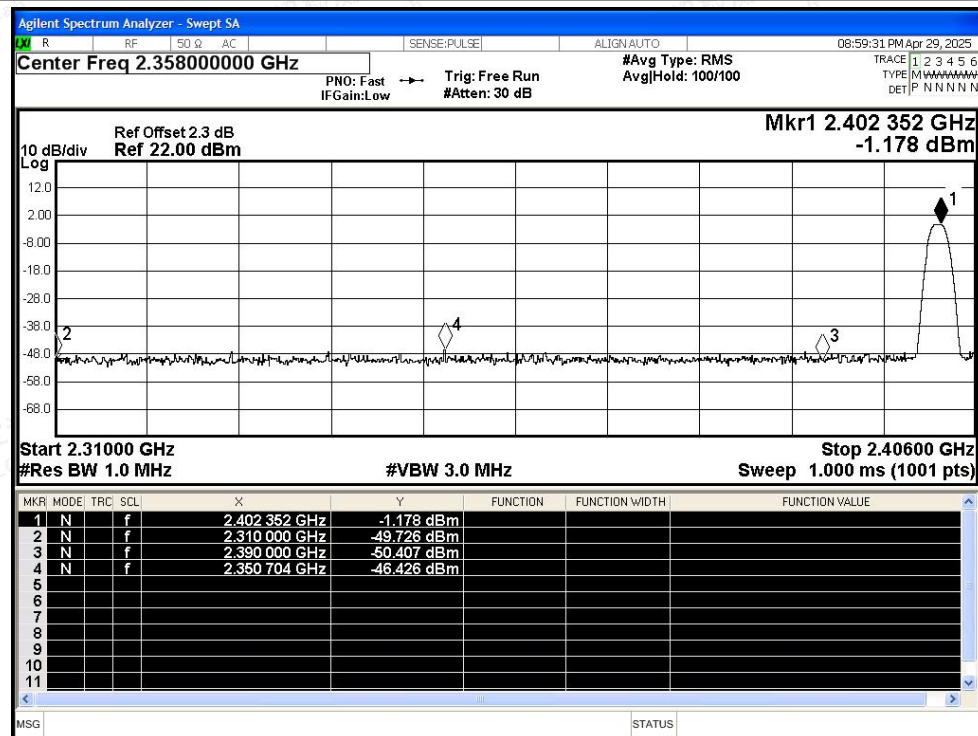
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-49.73	2	-	47.53	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.33	2	0.59	39.52	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2350.704	-46.43	2	-	50.83	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2389.68	-57.71	2	0.59	40.14	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-50.41	2	-	46.85	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.09	2	0.59	39.76	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-48.67	2	-	48.59	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-57.23	2	0.59	40.62	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2484.832	-44.79	2	-	52.47	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.584	-57.19	2	0.59	40.66	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-48.67	2	-	48.59	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-57.72	2	0.59	40.13	Average	54	Pass



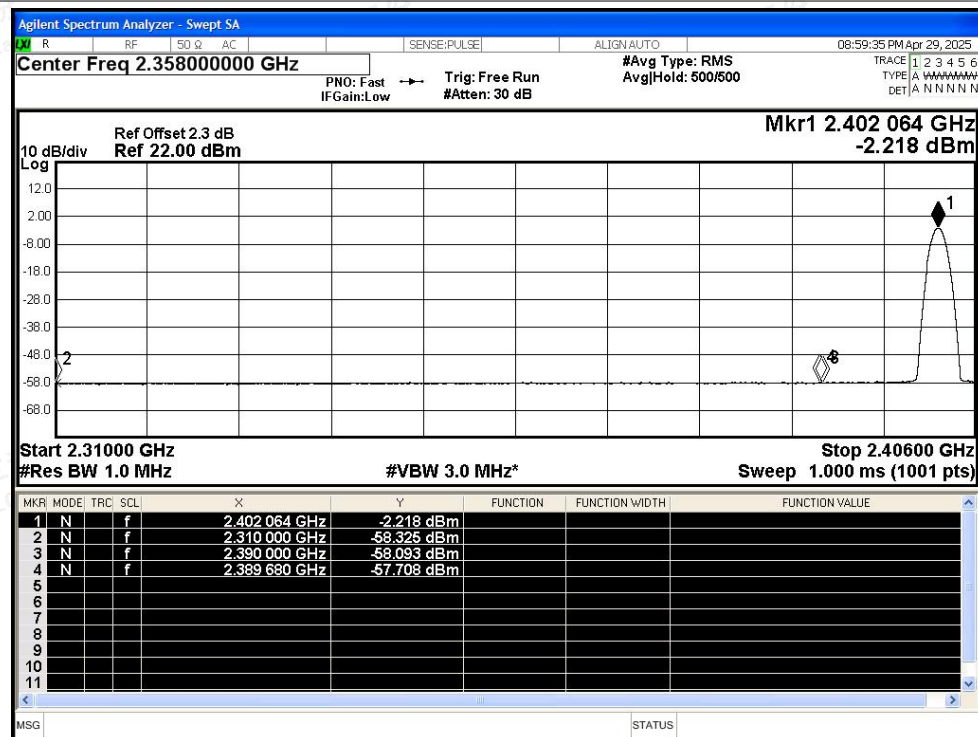


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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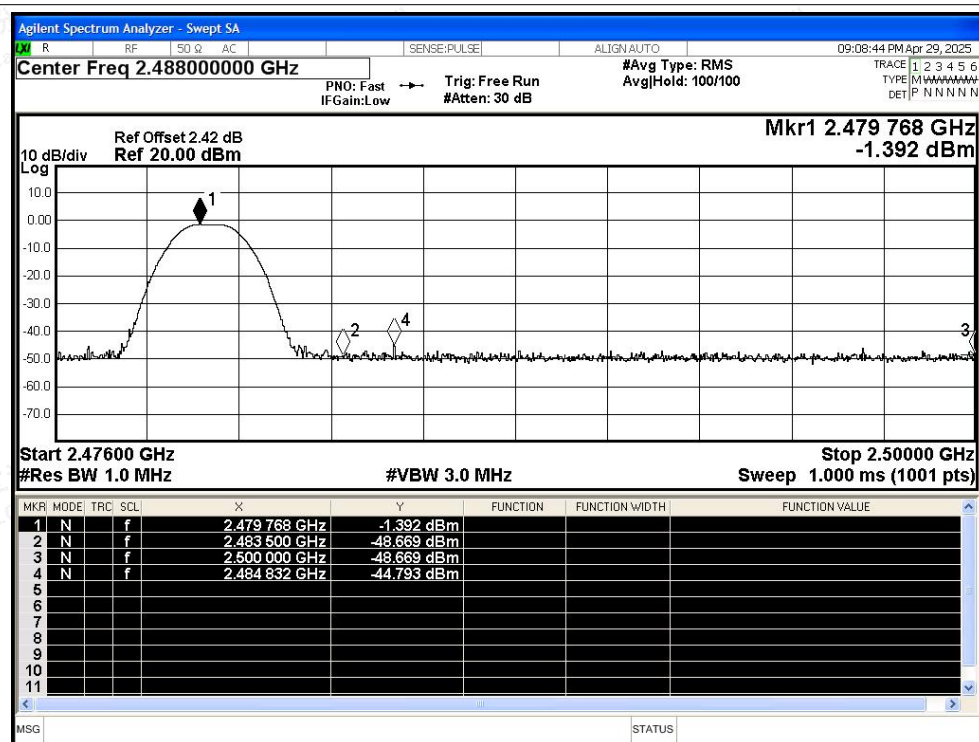
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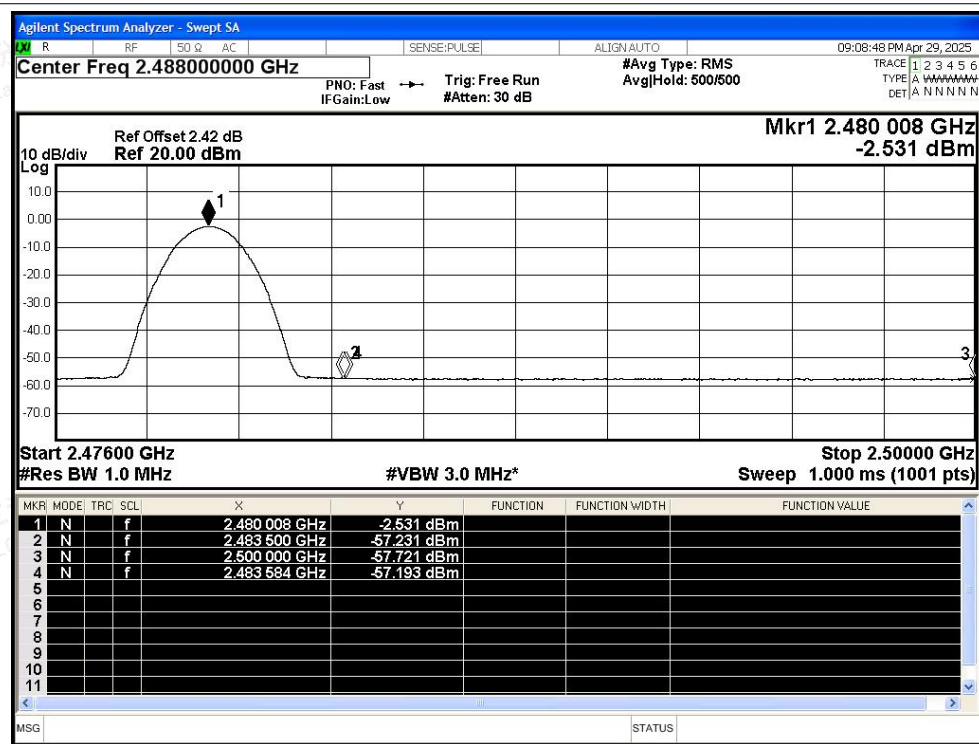
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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