



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: BLUETOOTH HEADPHONE

Test Model: PDB1077BX

Environmental Conditions

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



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B.1 -6dB Bandwidth

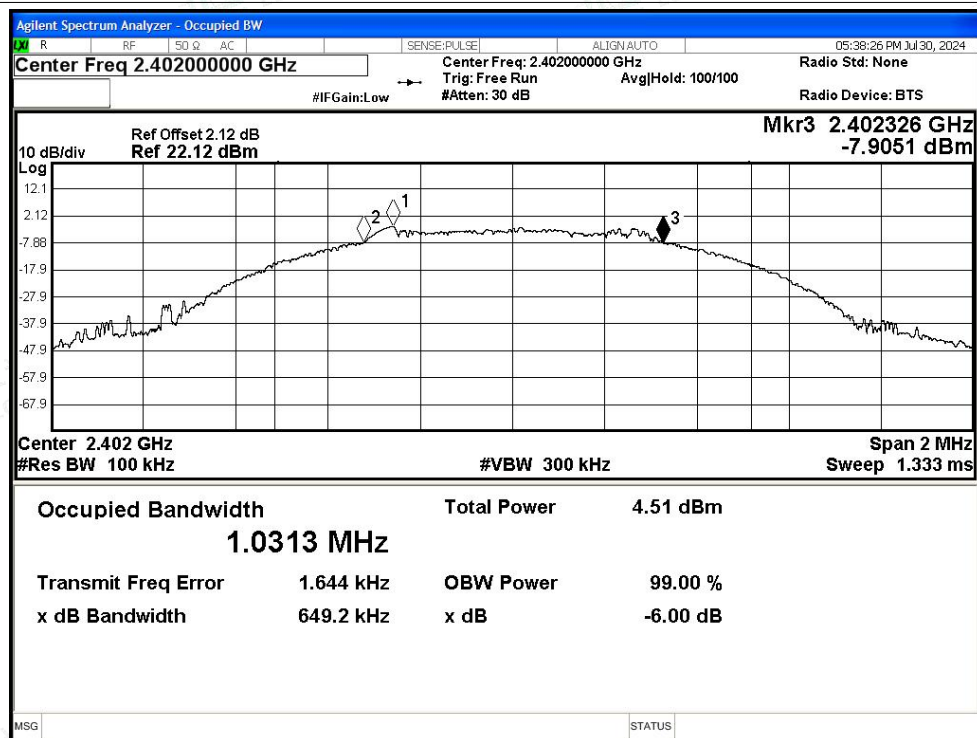
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.649	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.666	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.654	≥ 0.5	Pass



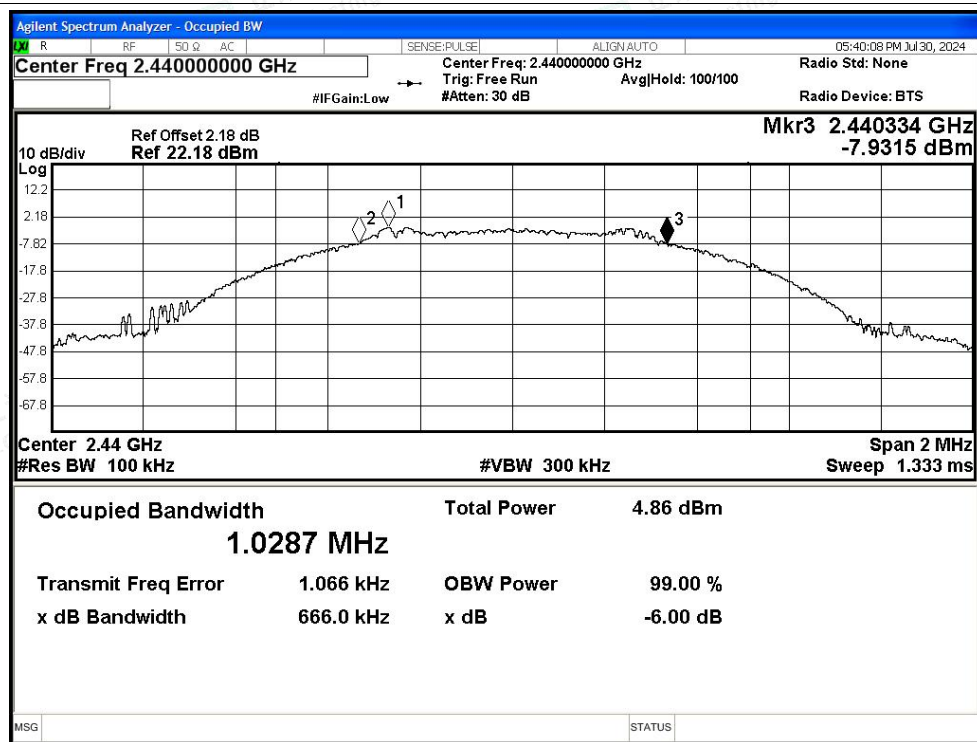


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

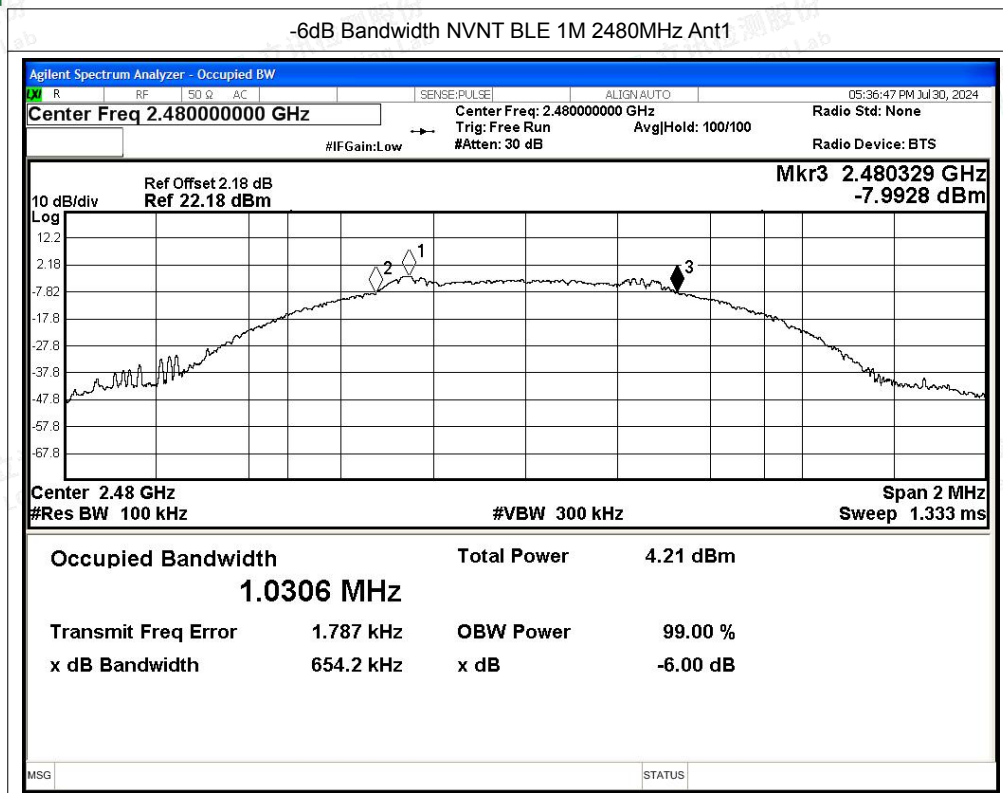


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B.2 Maximum Peak Conducted Output Power

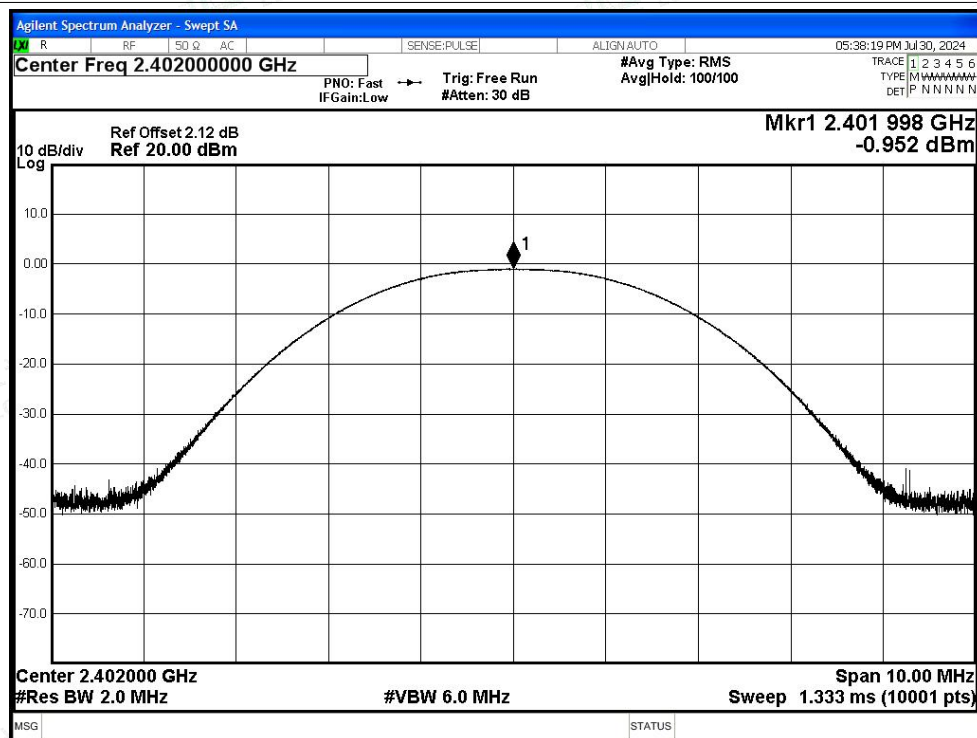
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.95	30	Pass
NVNT	BLE 1M	2440	Ant1	-0.63	30	Pass
NVNT	BLE 1M	2480	Ant1	-1.36	30	Pass



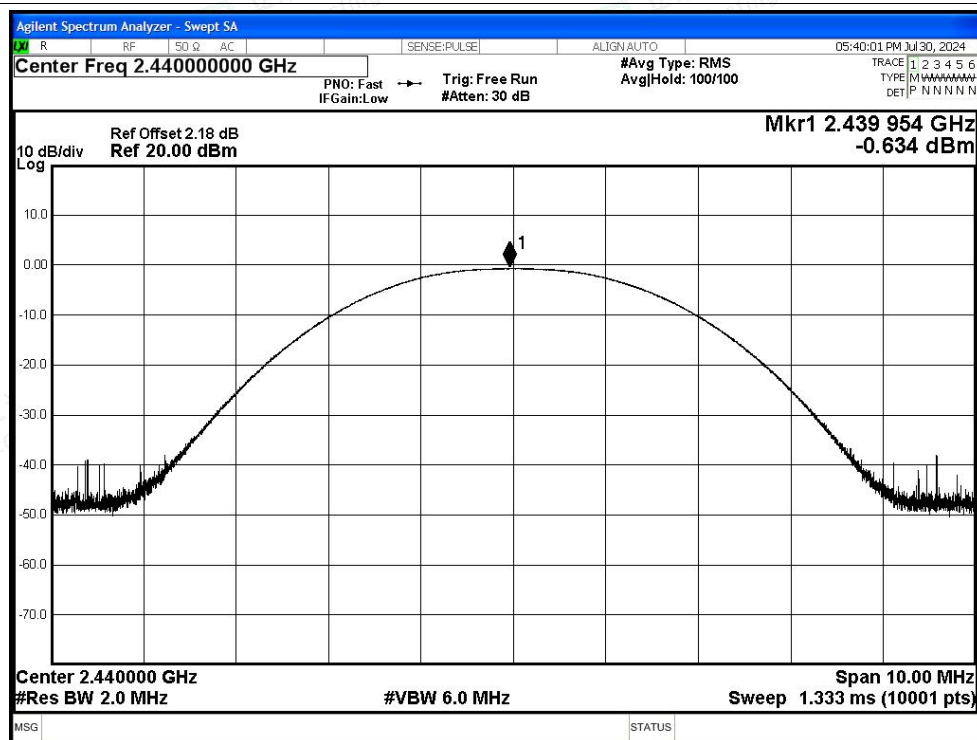


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

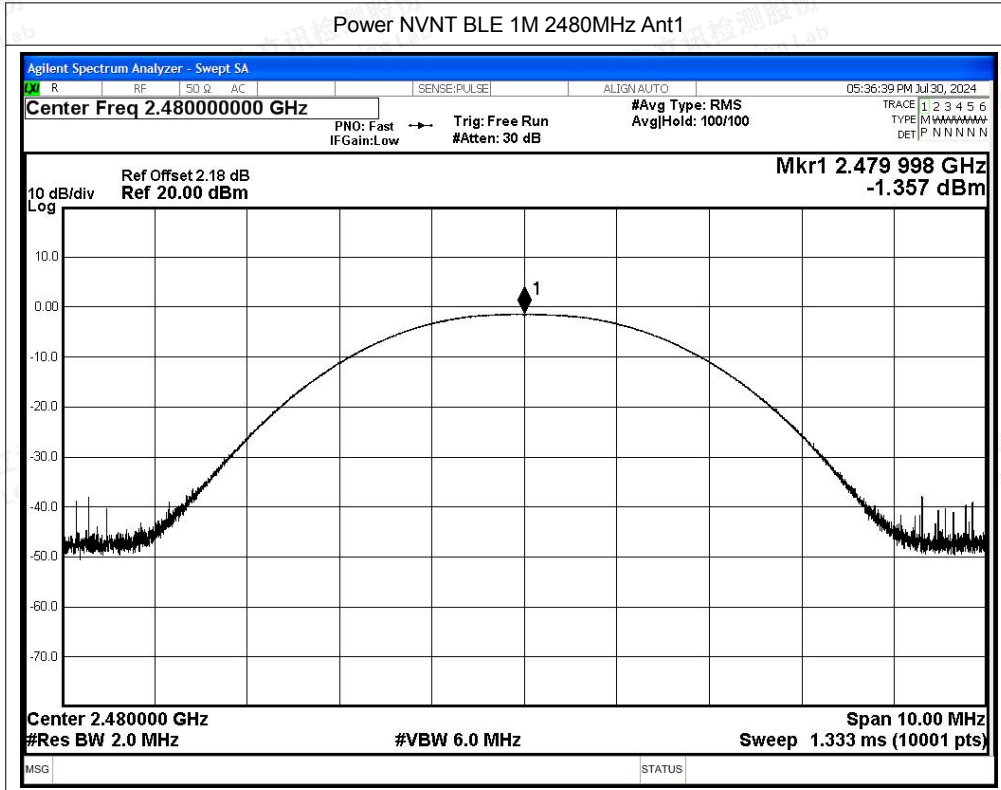


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B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-17.59	8	Pass
NVNT	BLE 1M	2440	Ant1	-17.49	8	Pass
NVNT	BLE 1M	2480	Ant1	-18.21	8	Pass

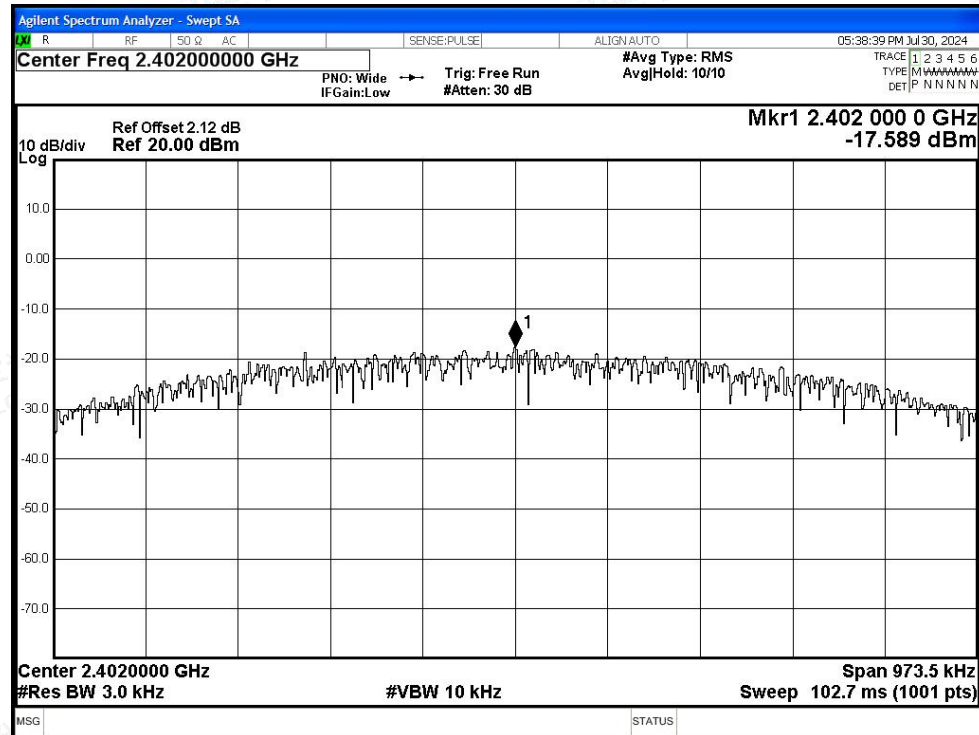


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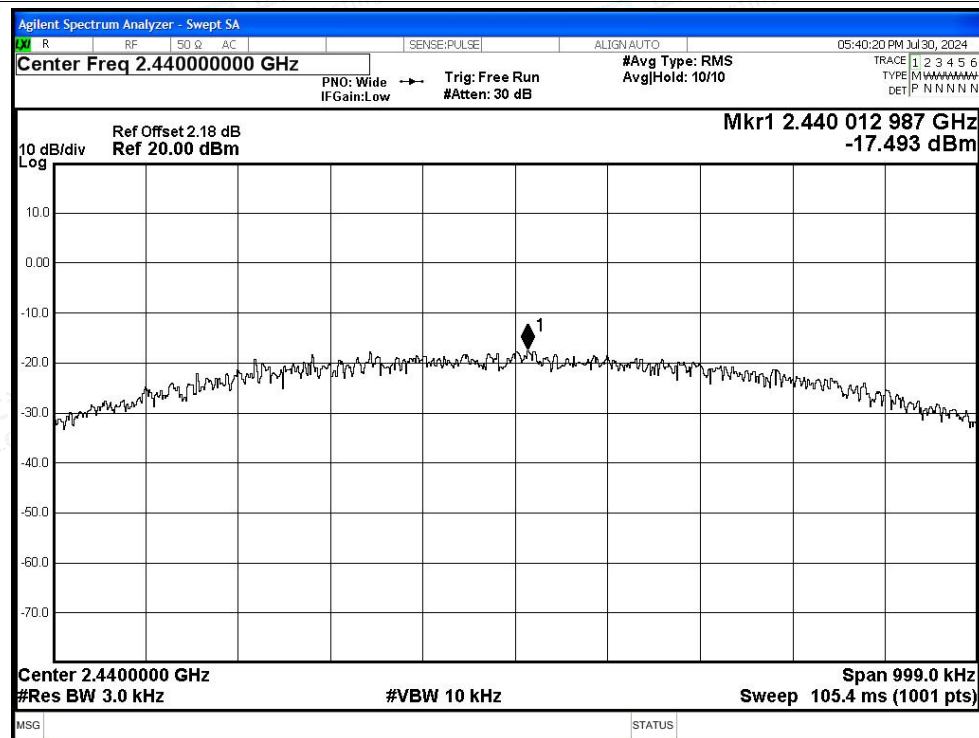


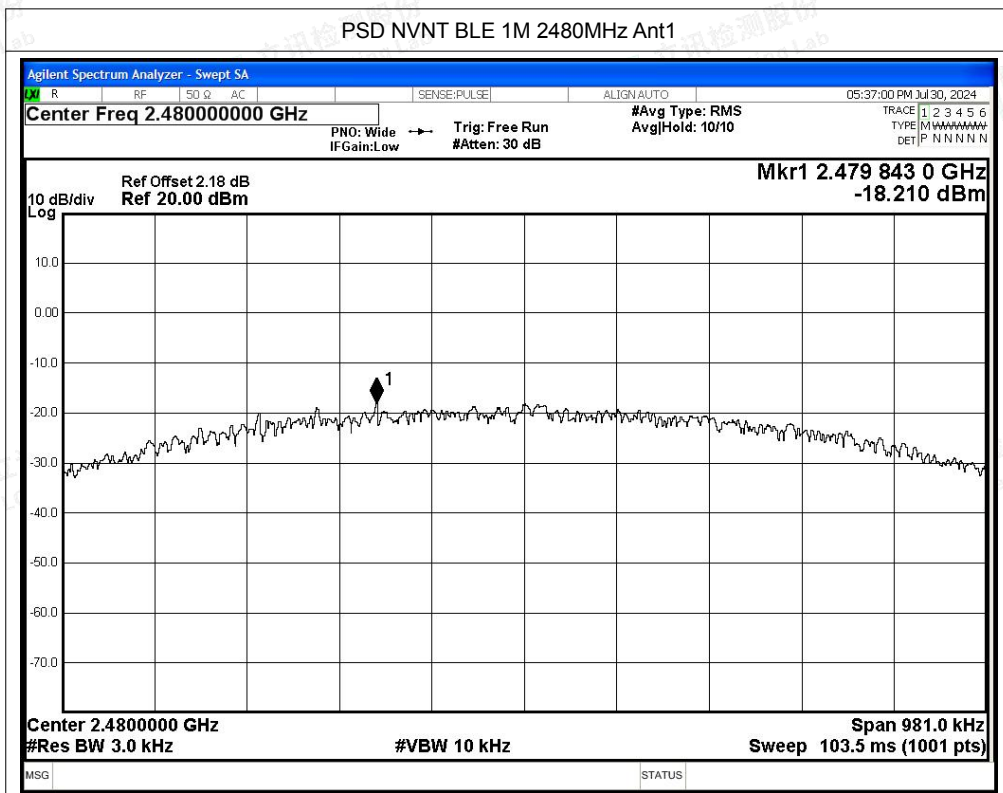
Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1





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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-55.07	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.16	-20	Pass

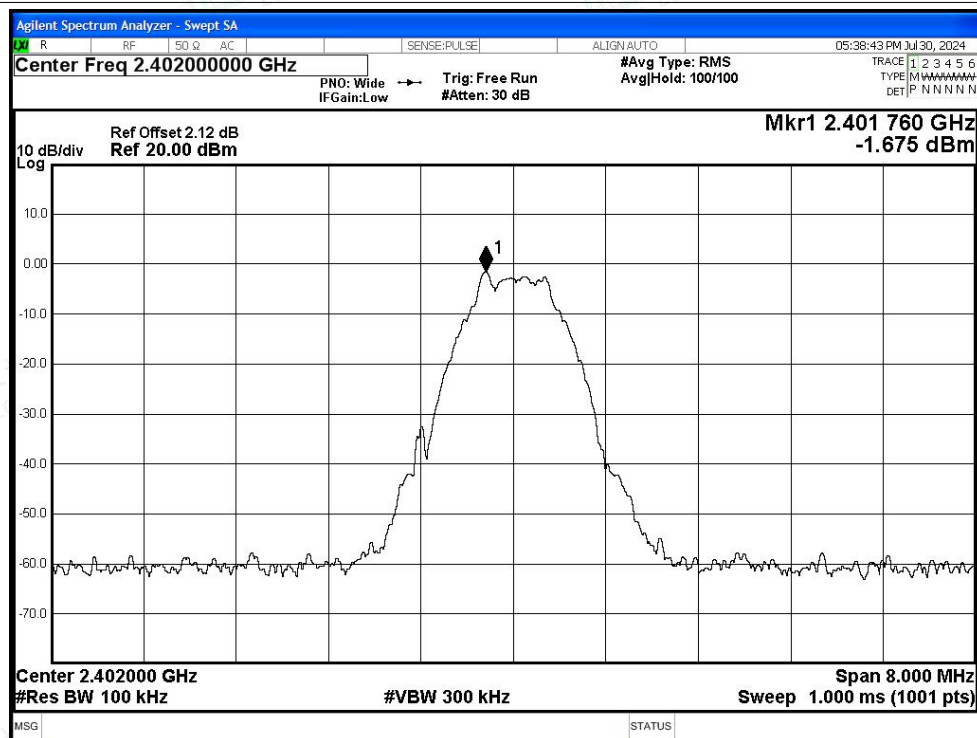


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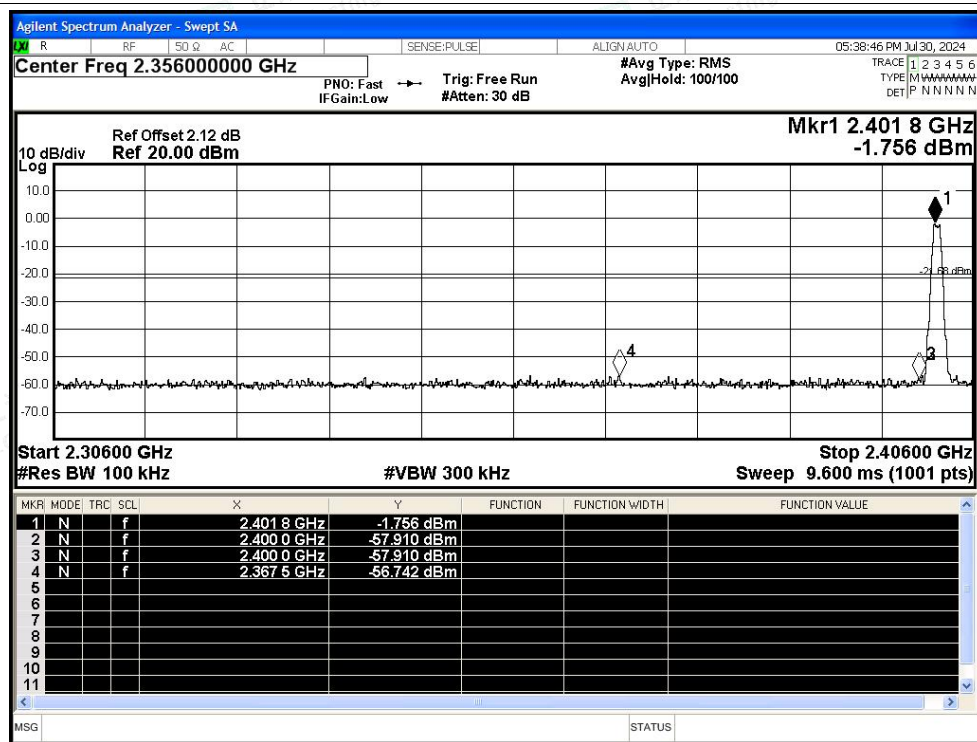


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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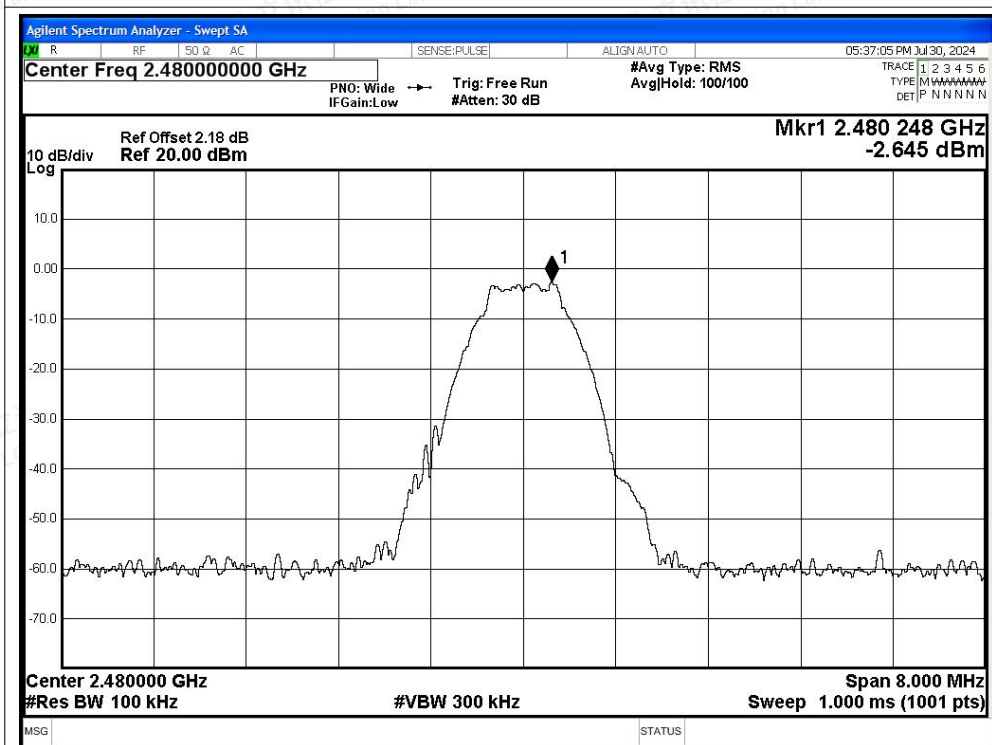
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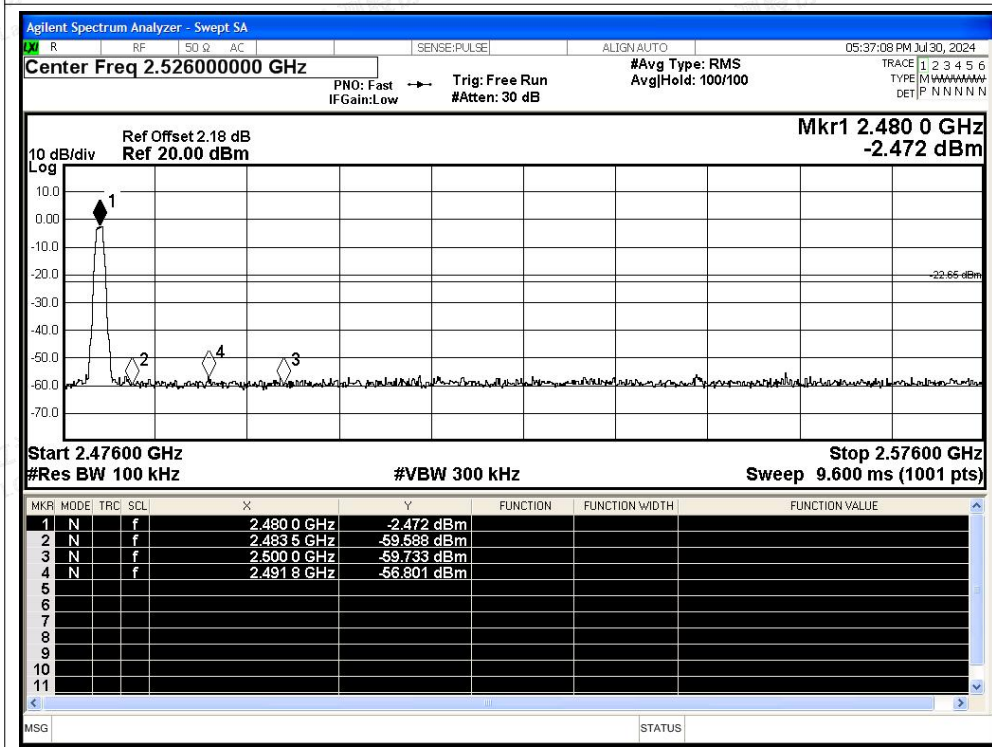
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-53.55	-20	Pass
NVNT	BLE 1M	2440	Ant1	-54.02	-20	Pass
NVNT	BLE 1M	2480	Ant1	-53.57	-20	Pass

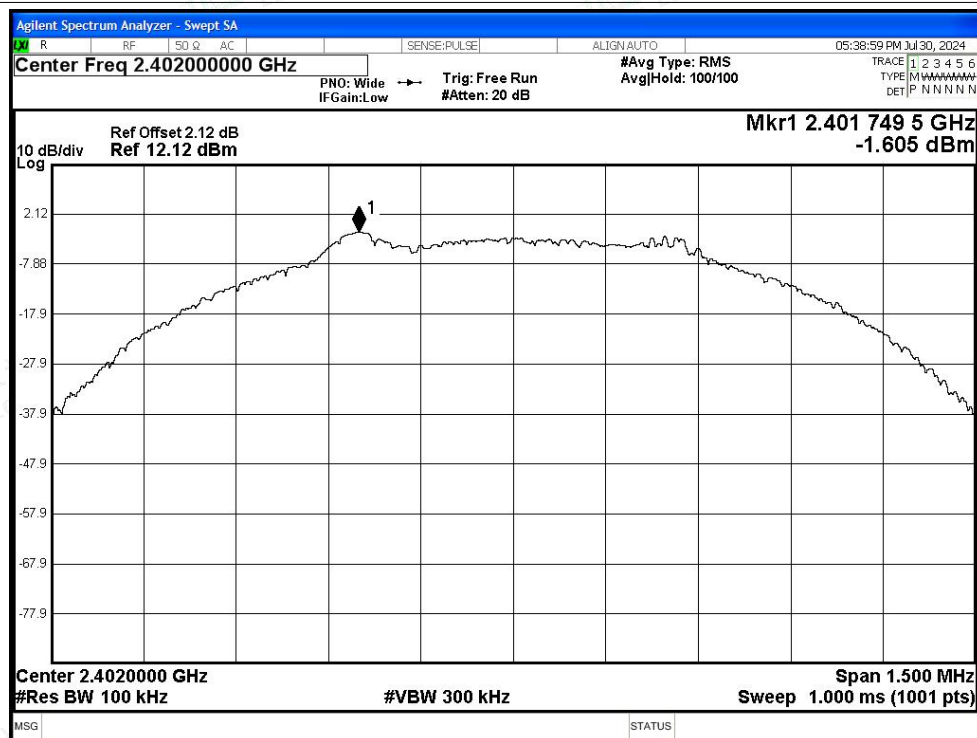


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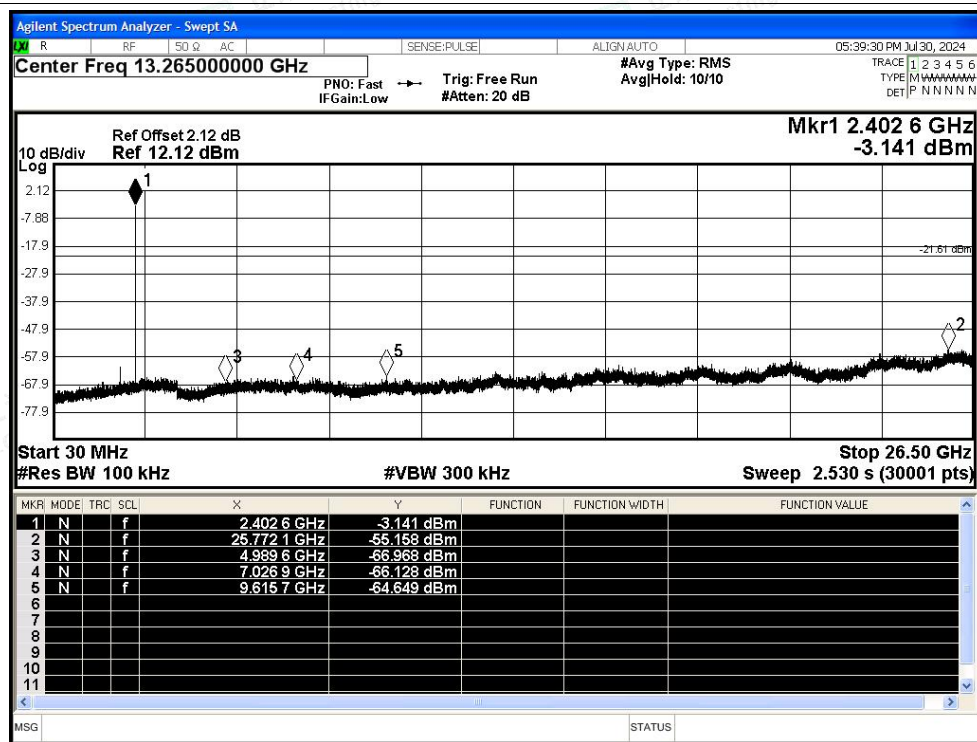


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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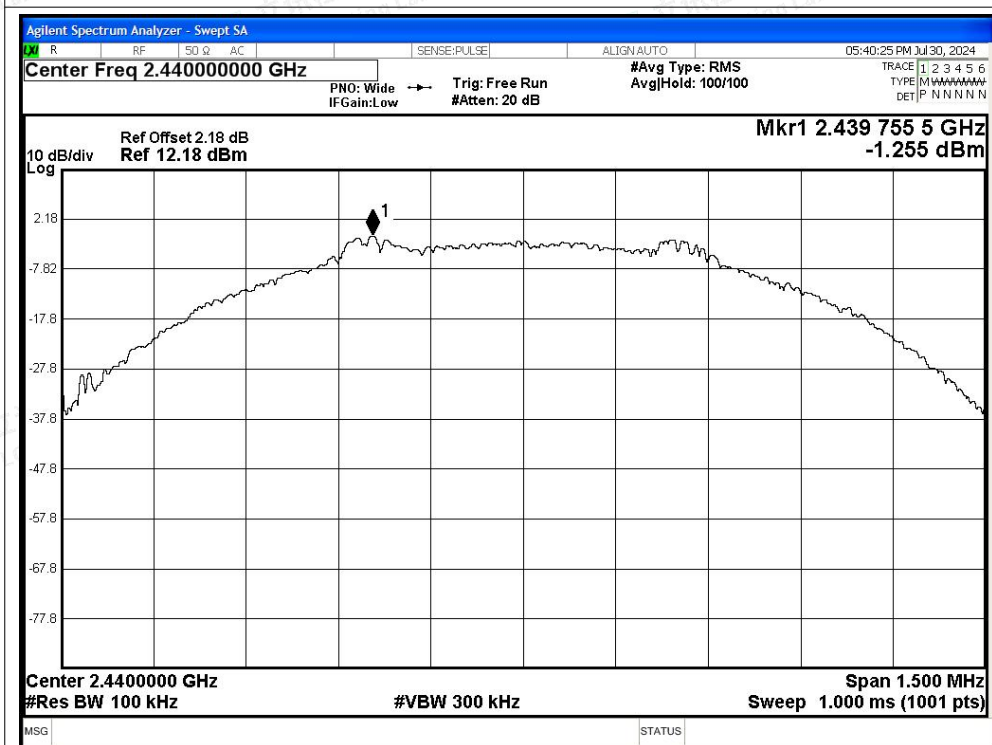
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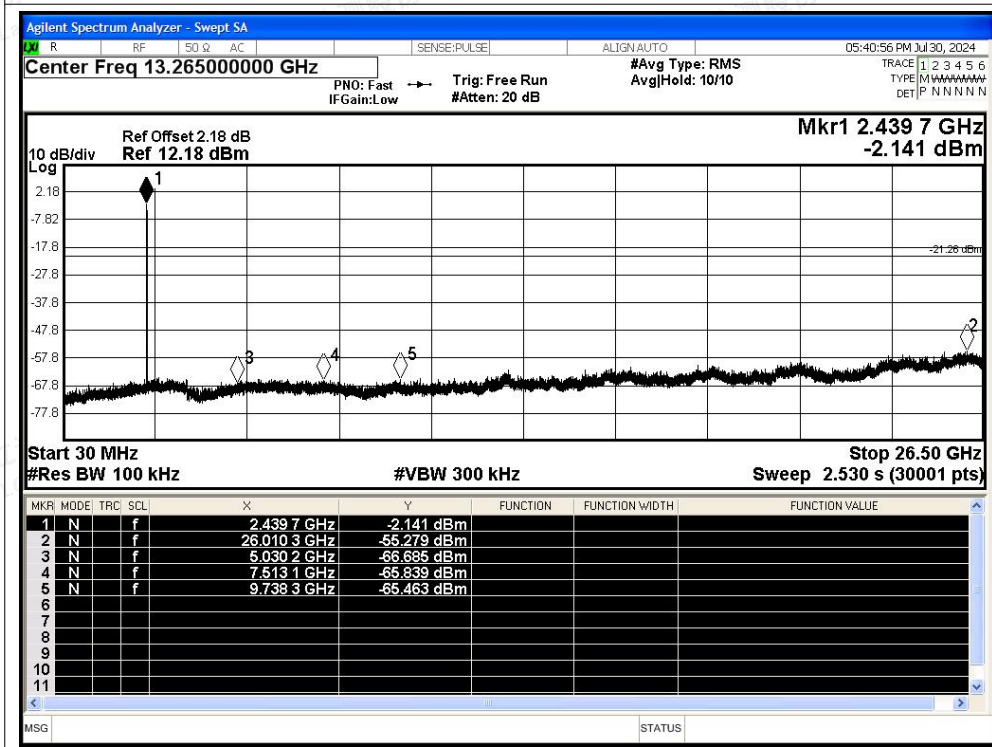
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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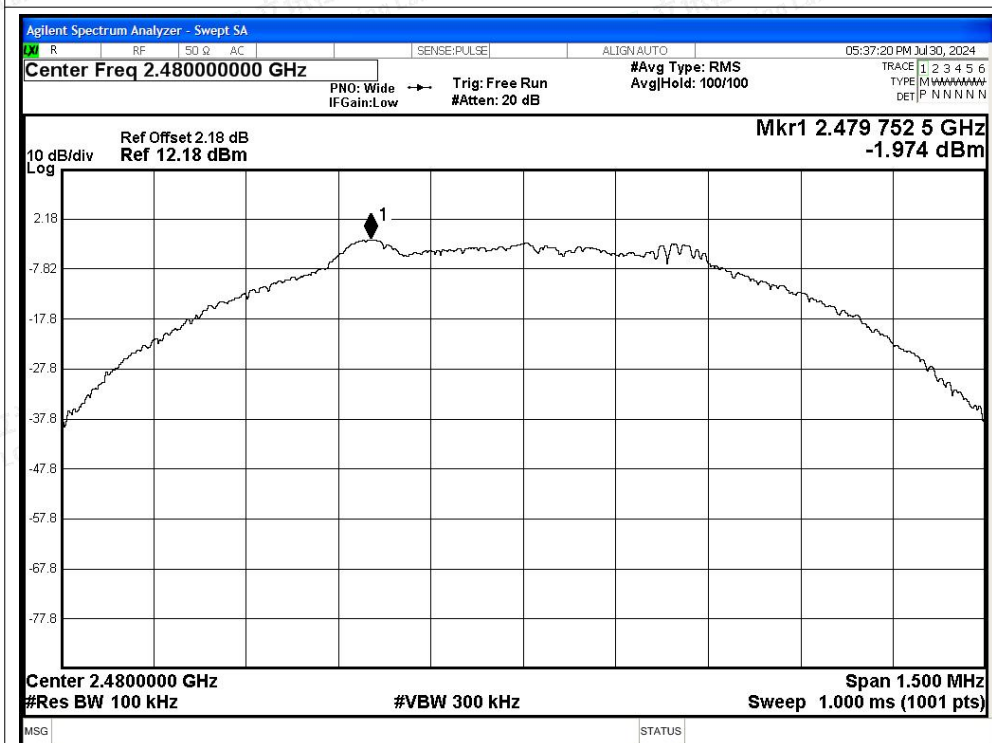
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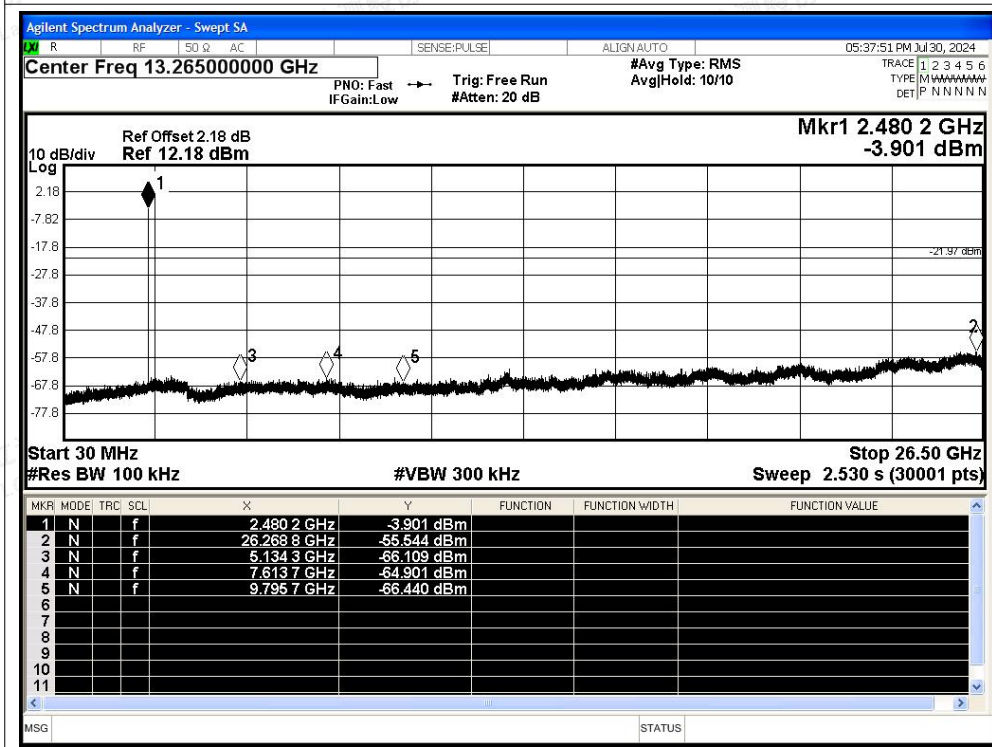
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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B.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

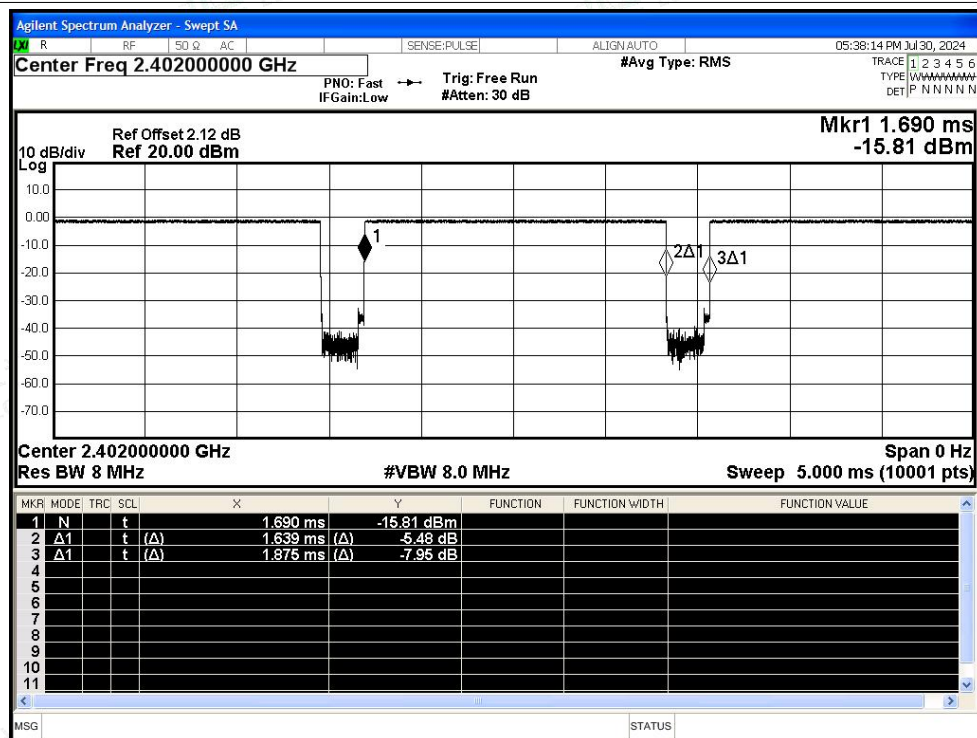


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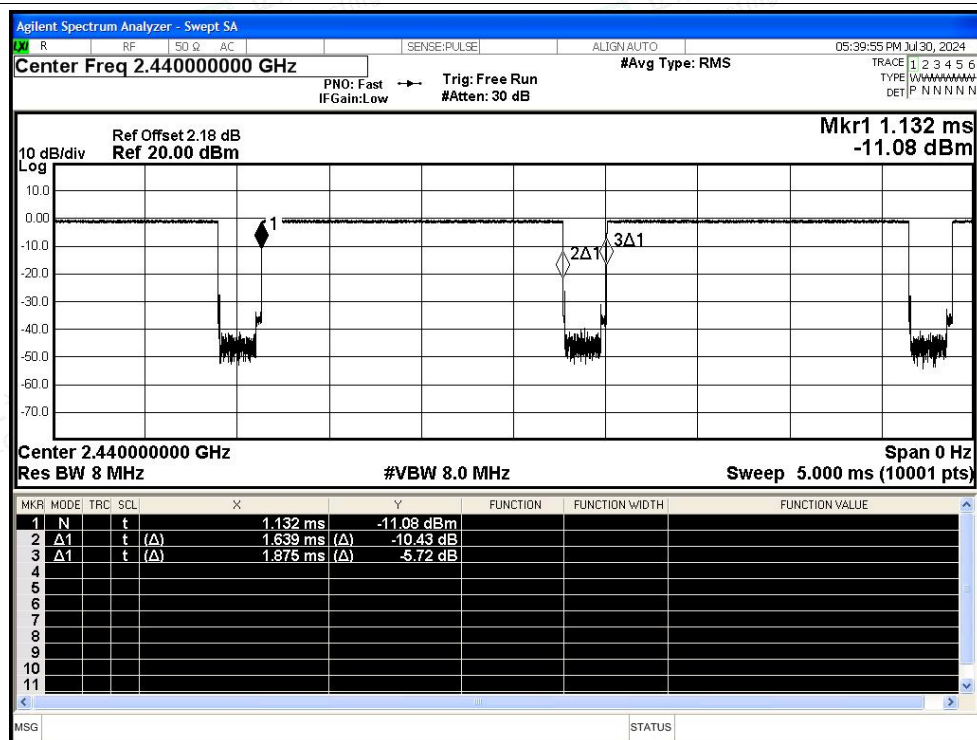


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

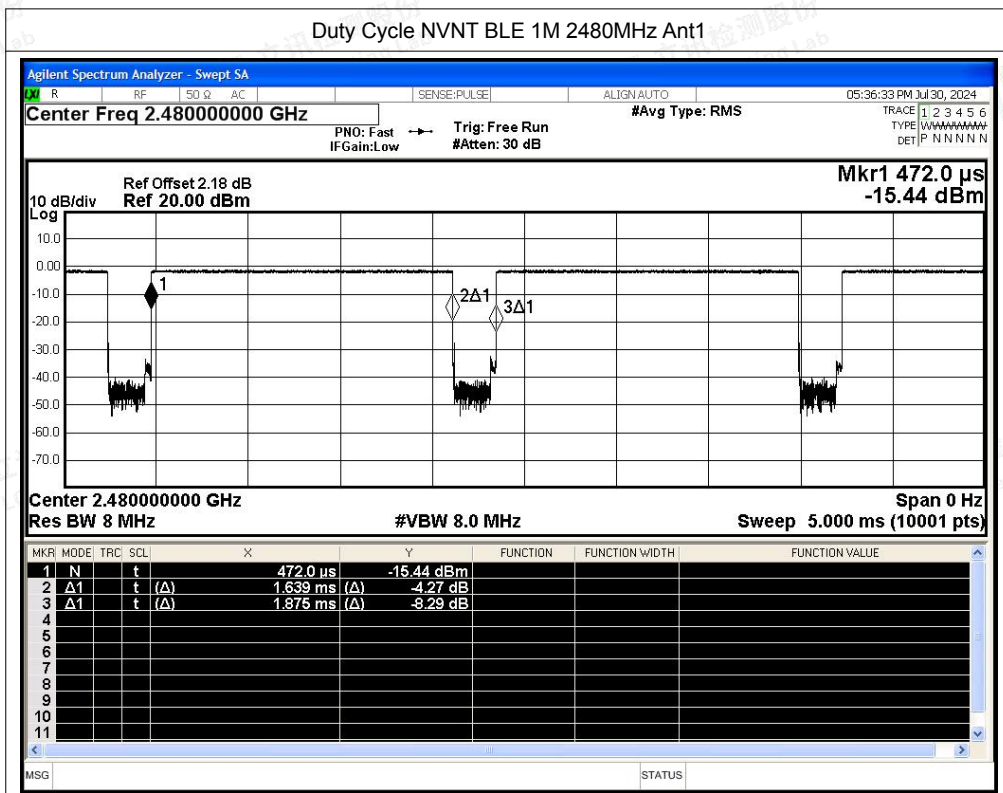


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B.7 Restrict Band

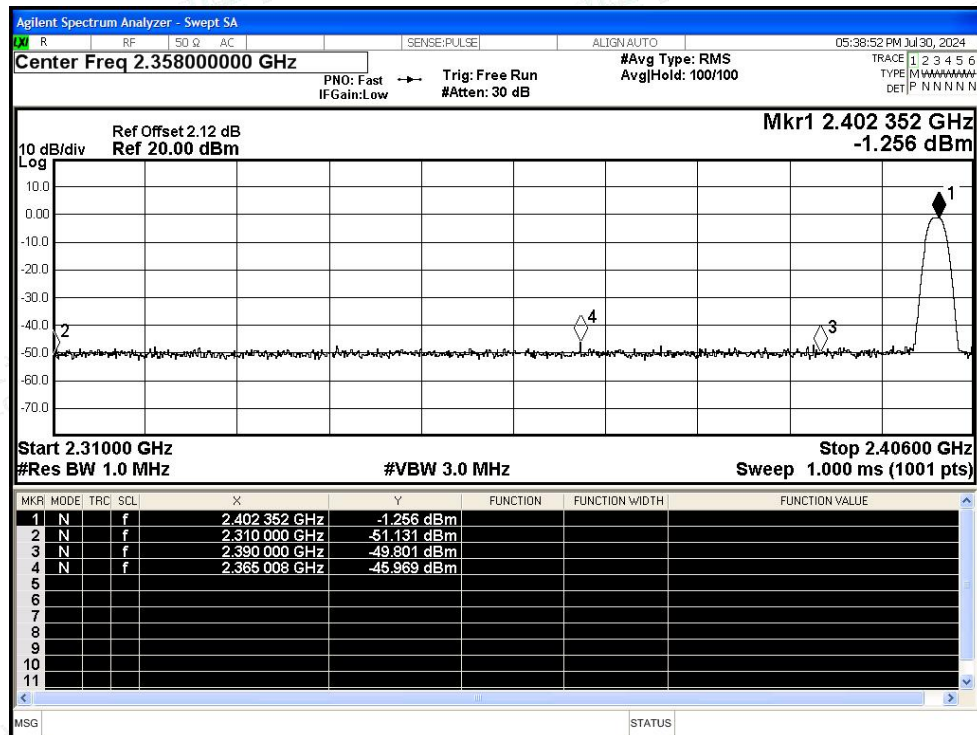
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-51.13	2.499	-	46.63	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.62	2.499	0.59	39.73	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2365.008	-45.97	2.499	-	51.79	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2372.208	-57.54	2.499	0.59	40.81	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-49.8	2.499	-	47.96	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.37	2.499	0.59	39.98	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-49.71	2.499	-	48.05	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-57.61	2.499	0.59	40.74	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2485.888	-46.28	2.499	-	51.48	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2492.944	-57.06	2.499	0.59	41.29	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-50.36	2.499	-	47.40	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.03	2.499	0.59	40.32	Average	54	Pass



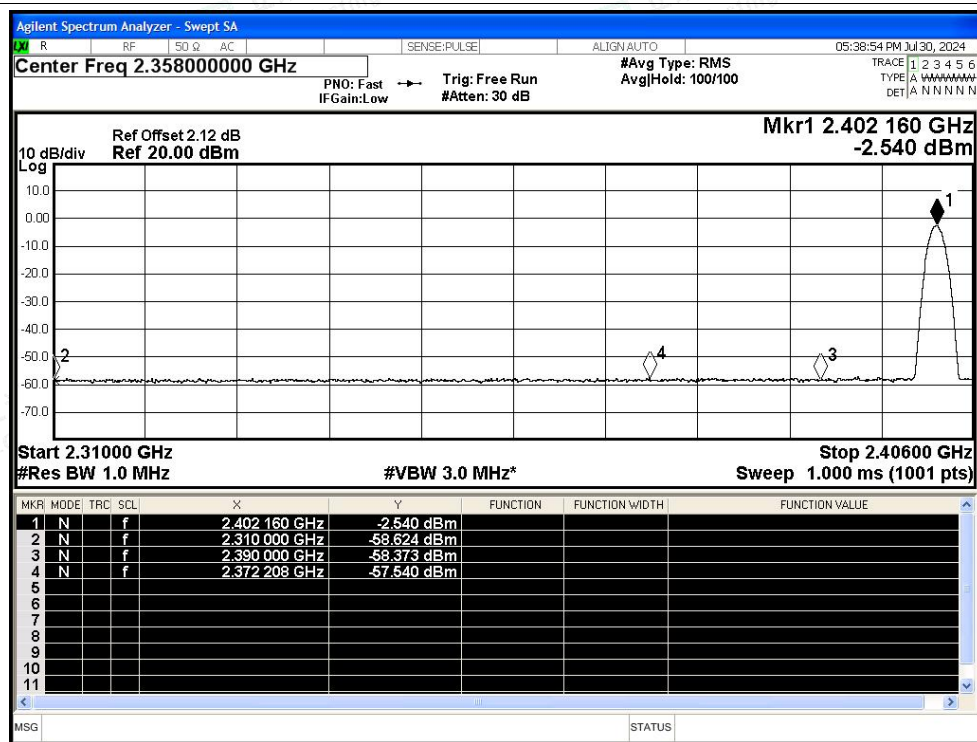


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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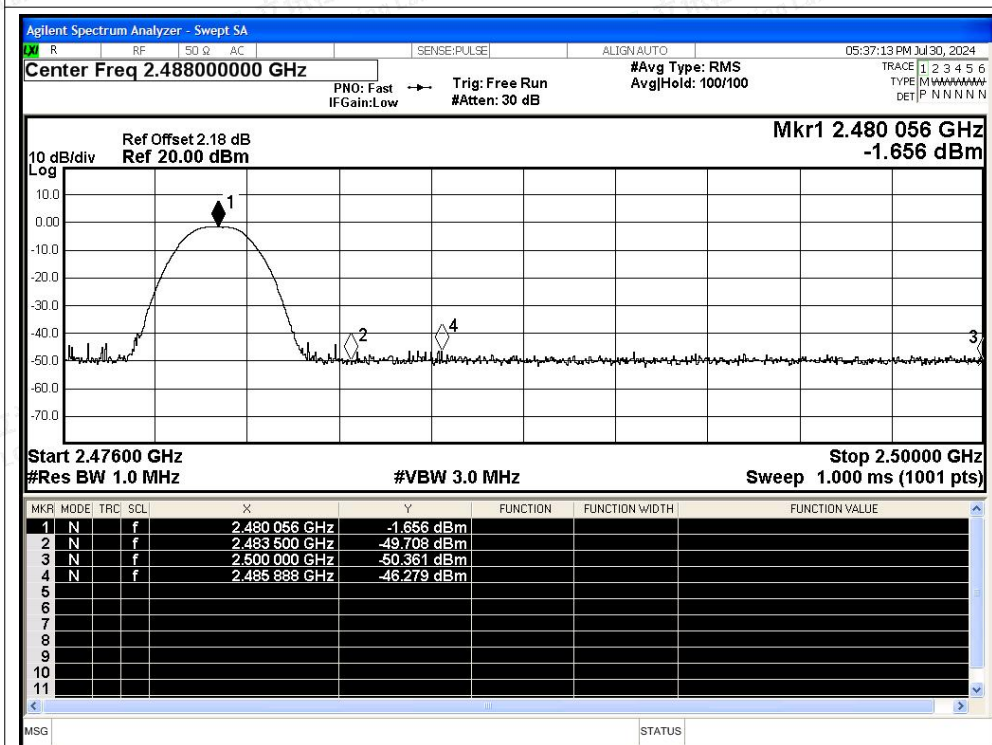
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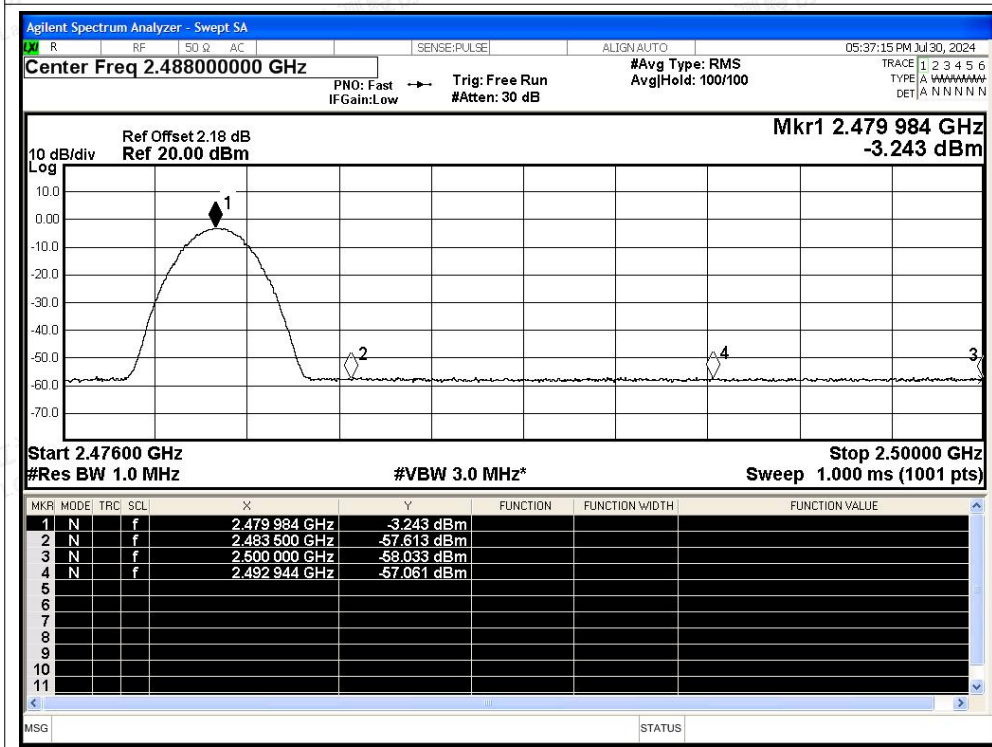
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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