



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: Dashcam

Test Model: V620

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
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	0.648	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.662	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.662	≥ 0.5	Pass

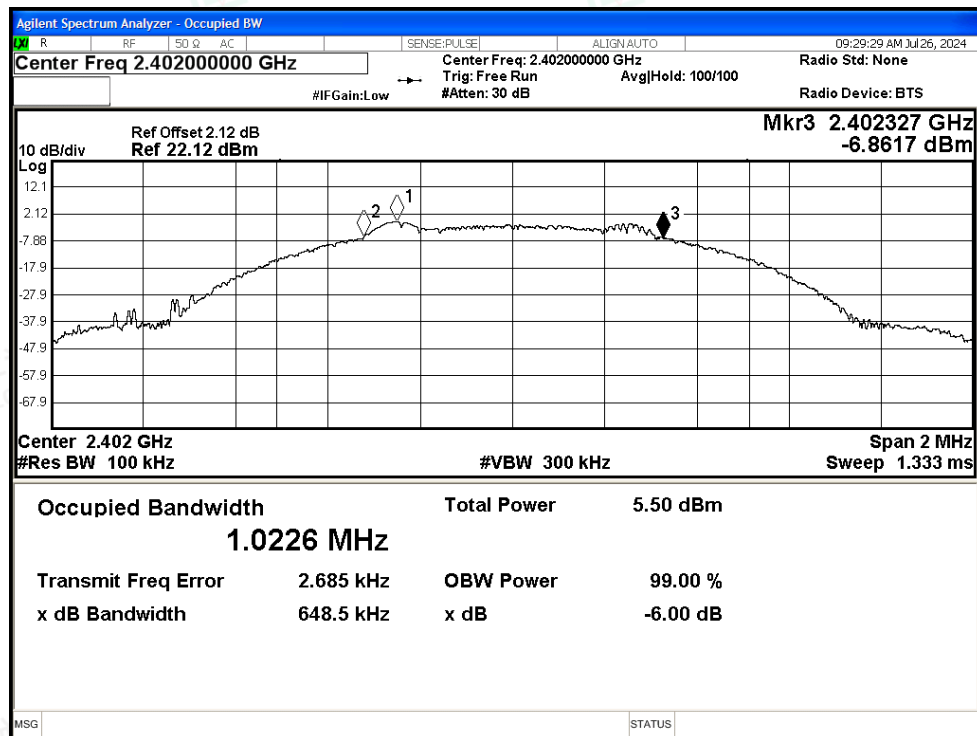


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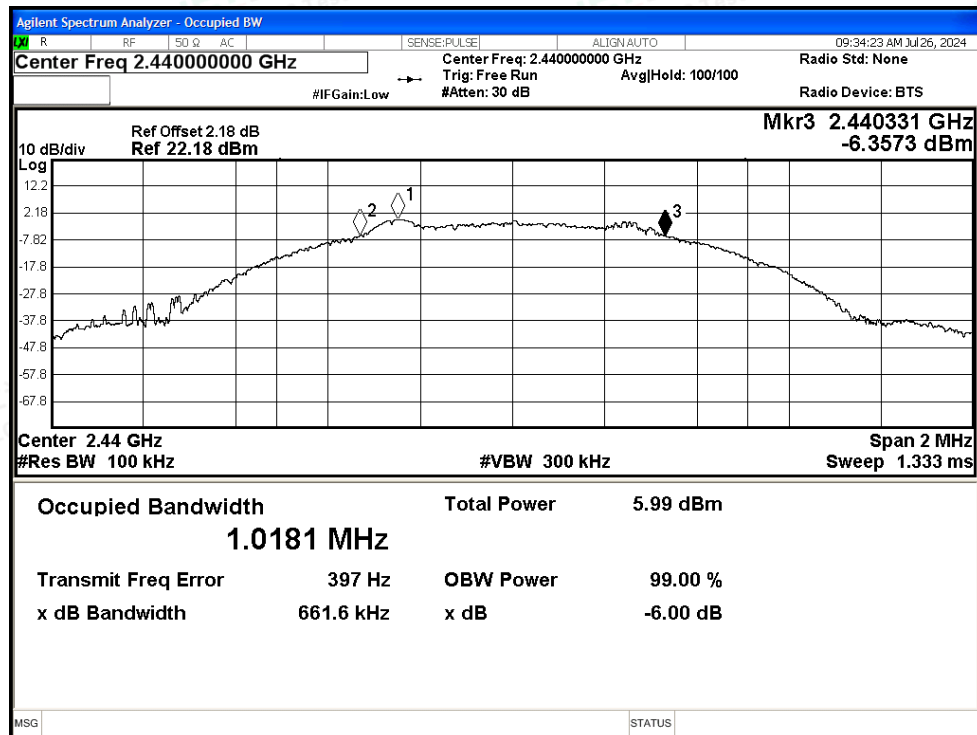


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

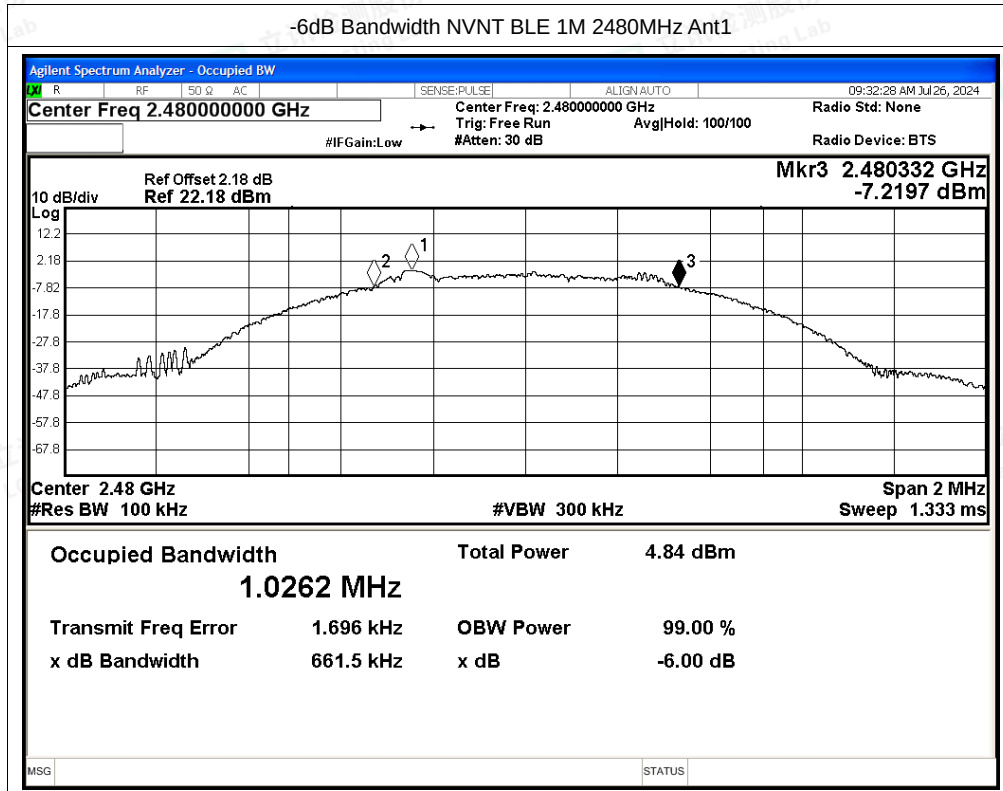


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A.2 Maximum Peak Conducted Output Power

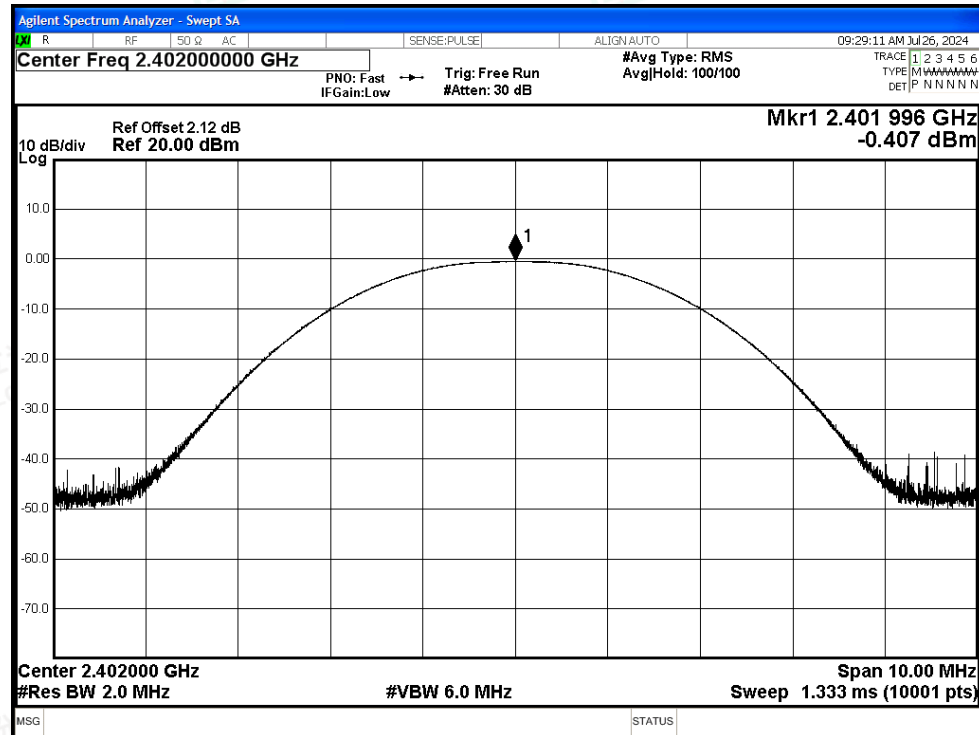
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.41	30	Pass
NVNT	BLE 1M	2440	Ant1	0.16	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.98	30	Pass



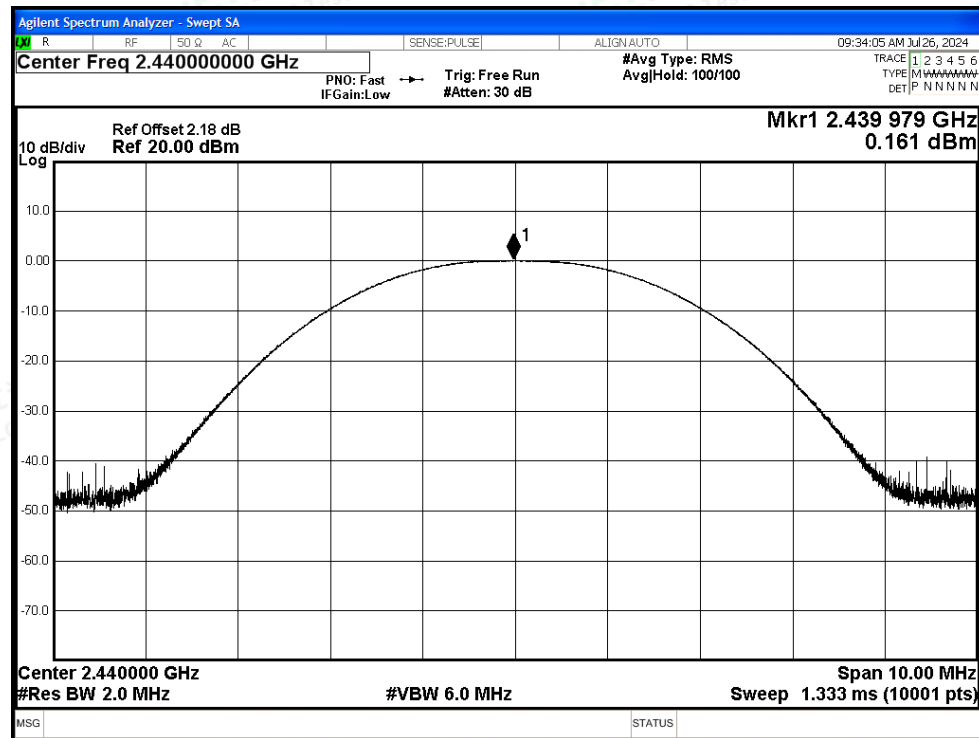


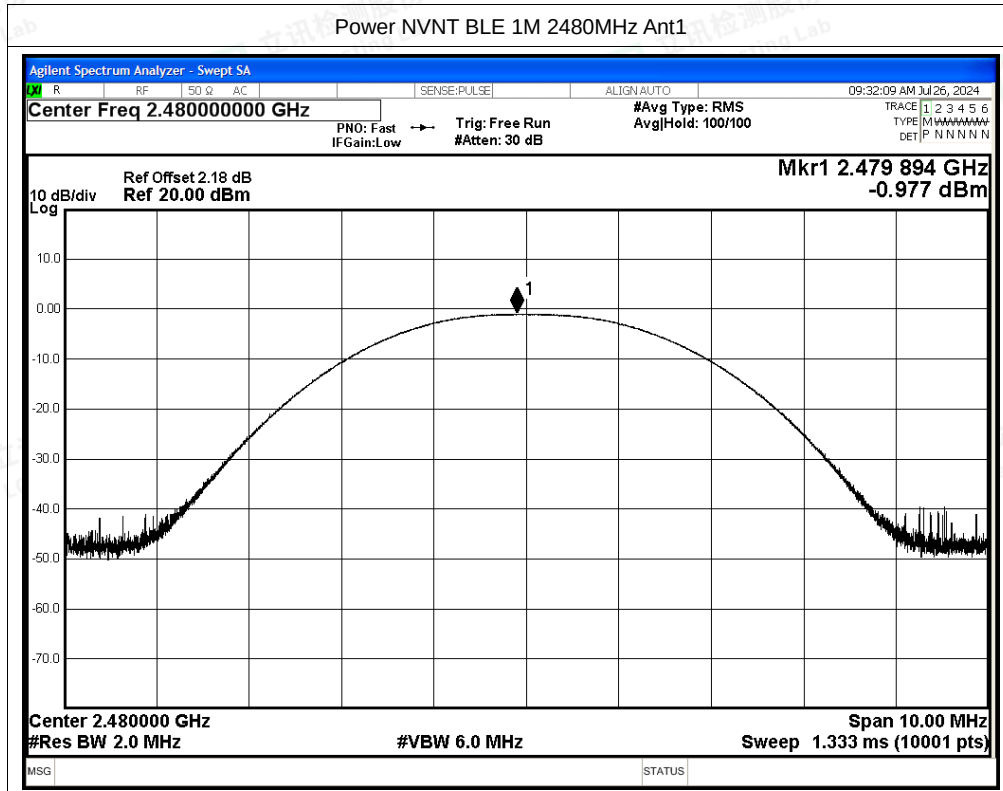
Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1







A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-17.1	8	Pass
NVNT	BLE 1M	2440	Ant1	-16.79	8	Pass
NVNT	BLE 1M	2480	Ant1	-17.68	8	Pass

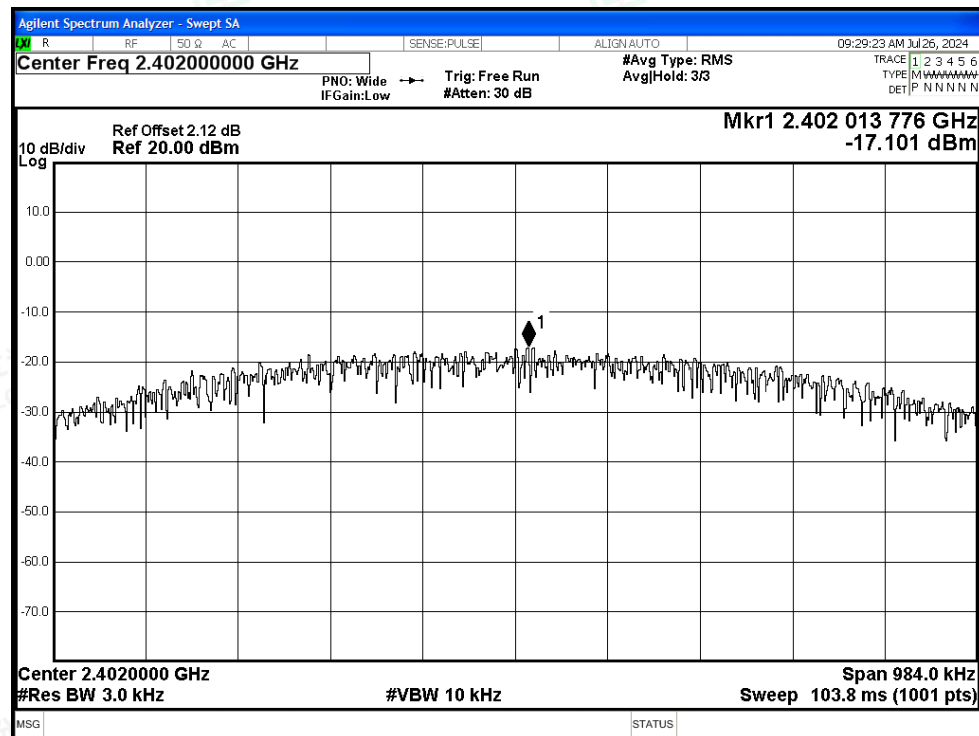


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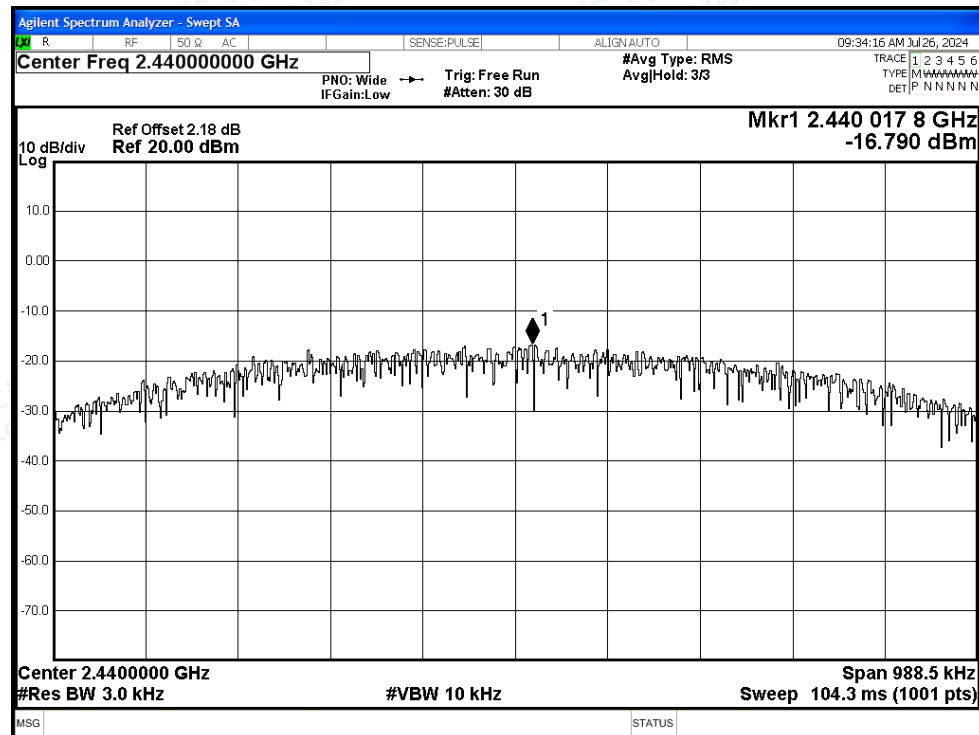


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

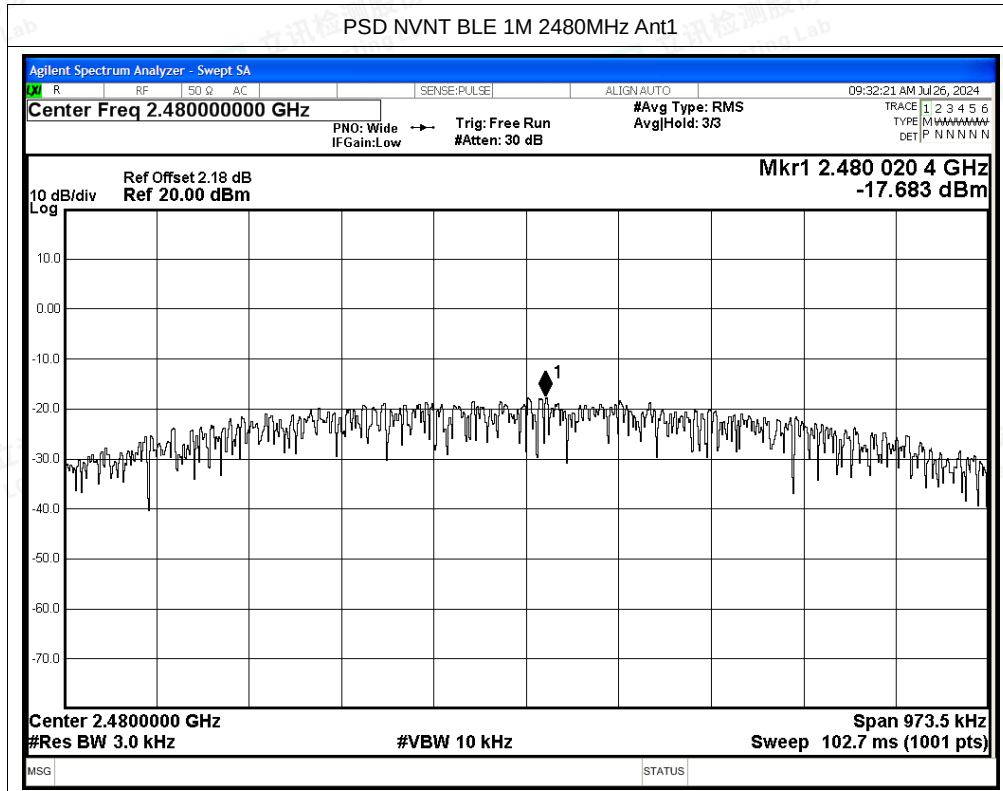


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A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-55.57	-20	Pass
NVNT	BLE 1M	2480	Ant1	-55.25	-20	Pass

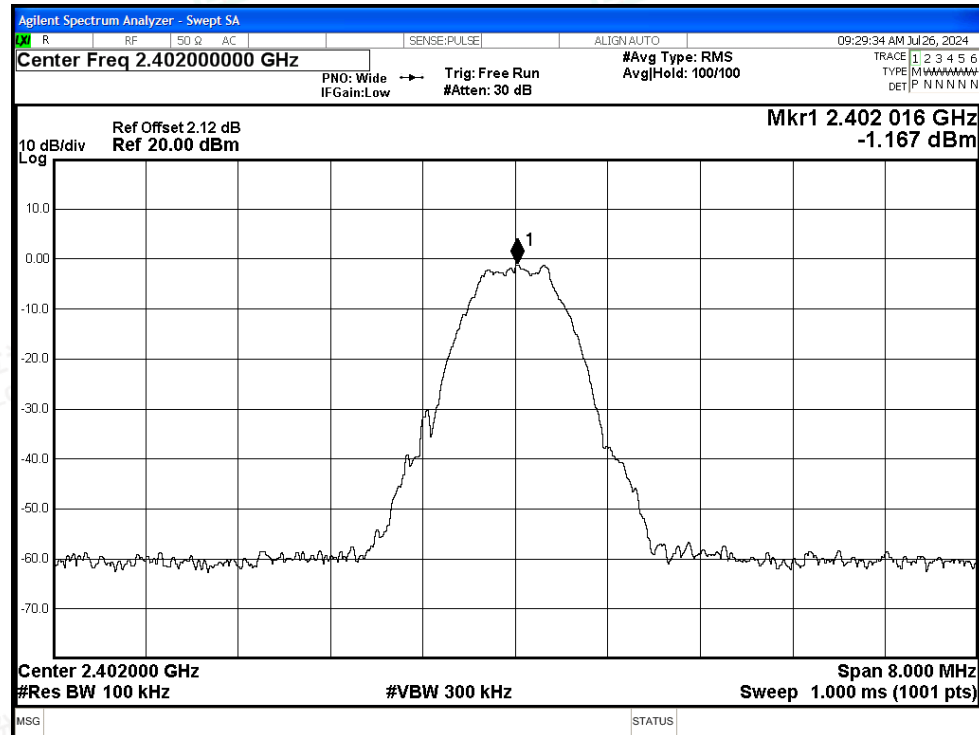


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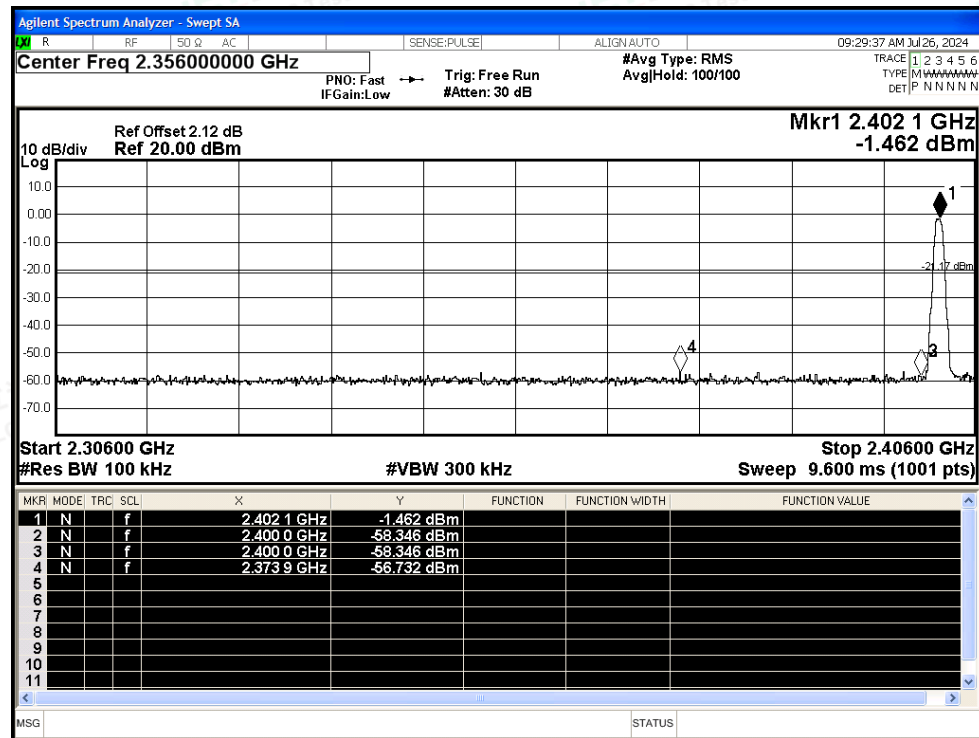


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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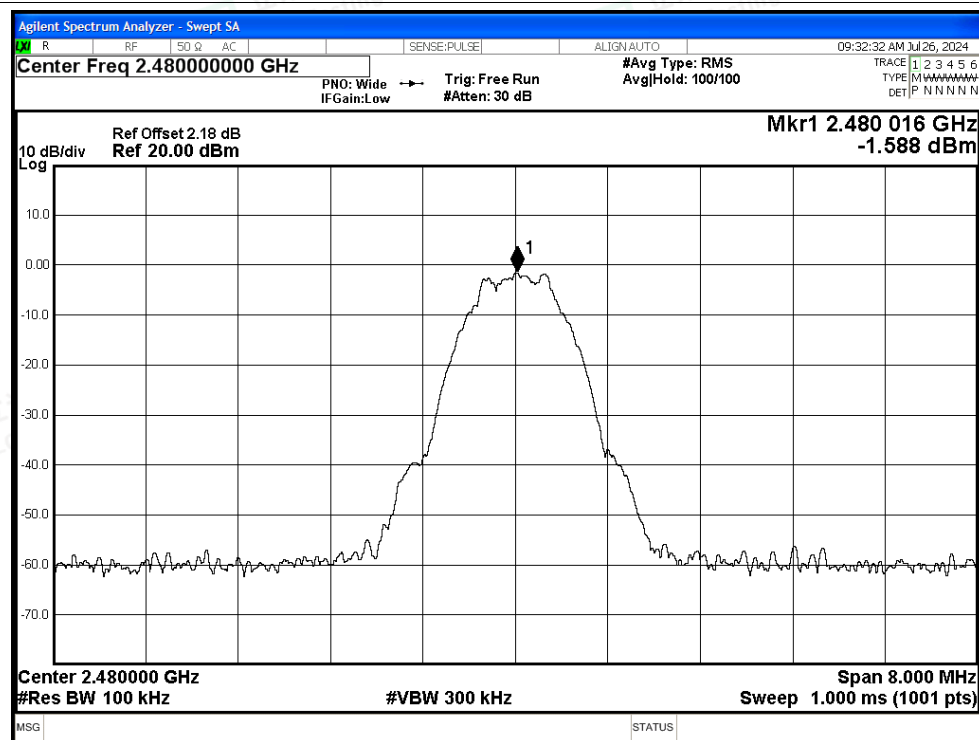
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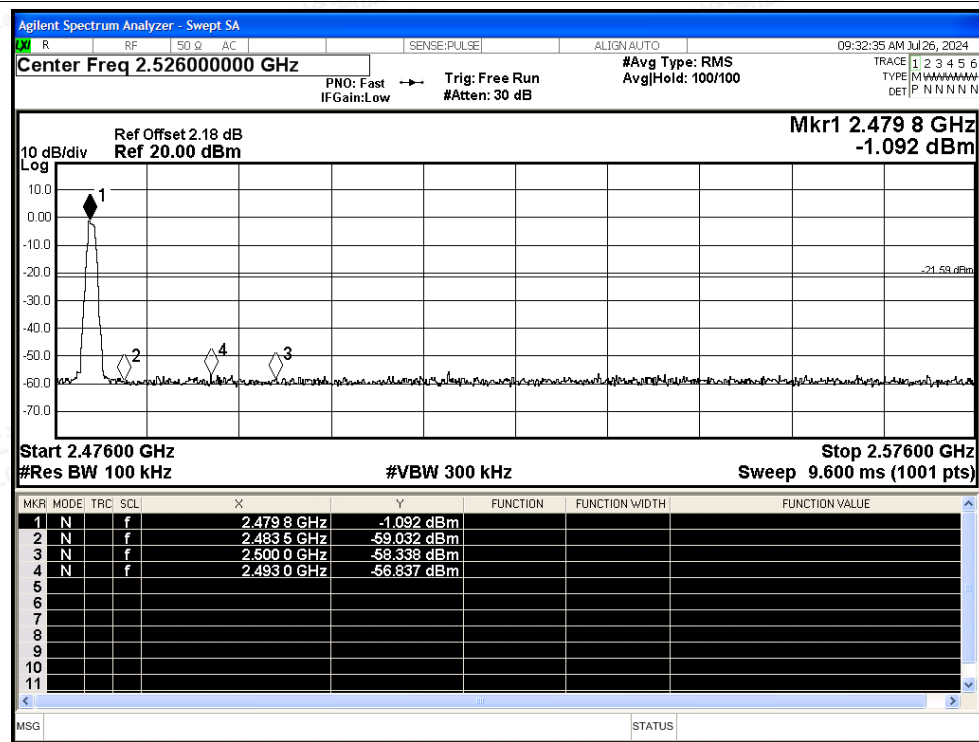
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



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	-55.04	-20	Pass
NVNT	BLE 1M	2440	Ant1	-55.21	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.72	-20	Pass

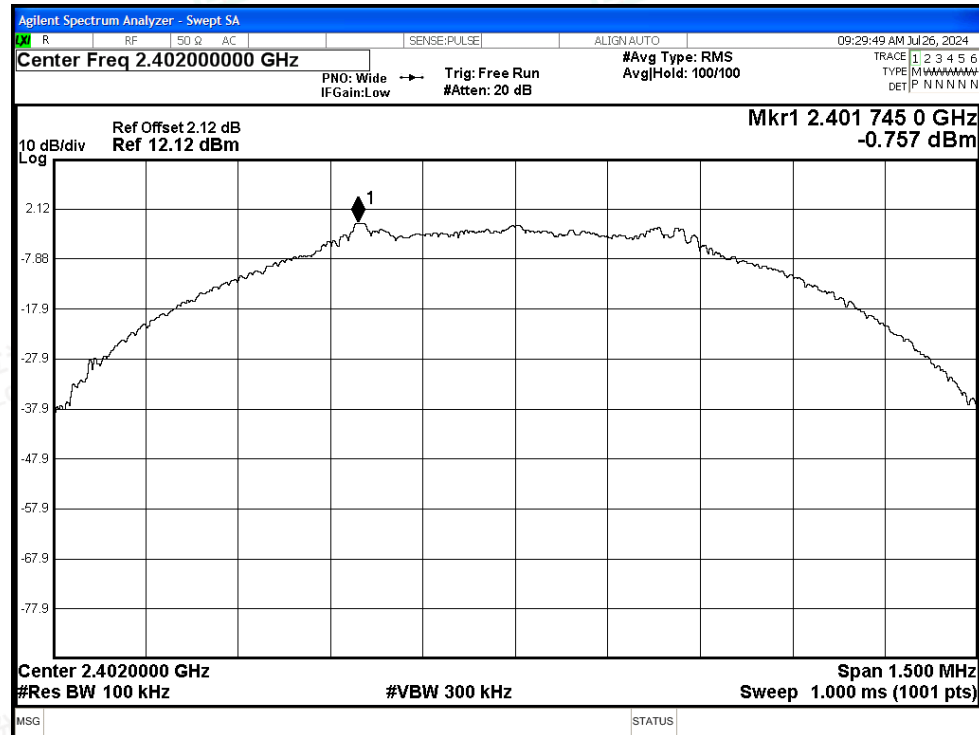


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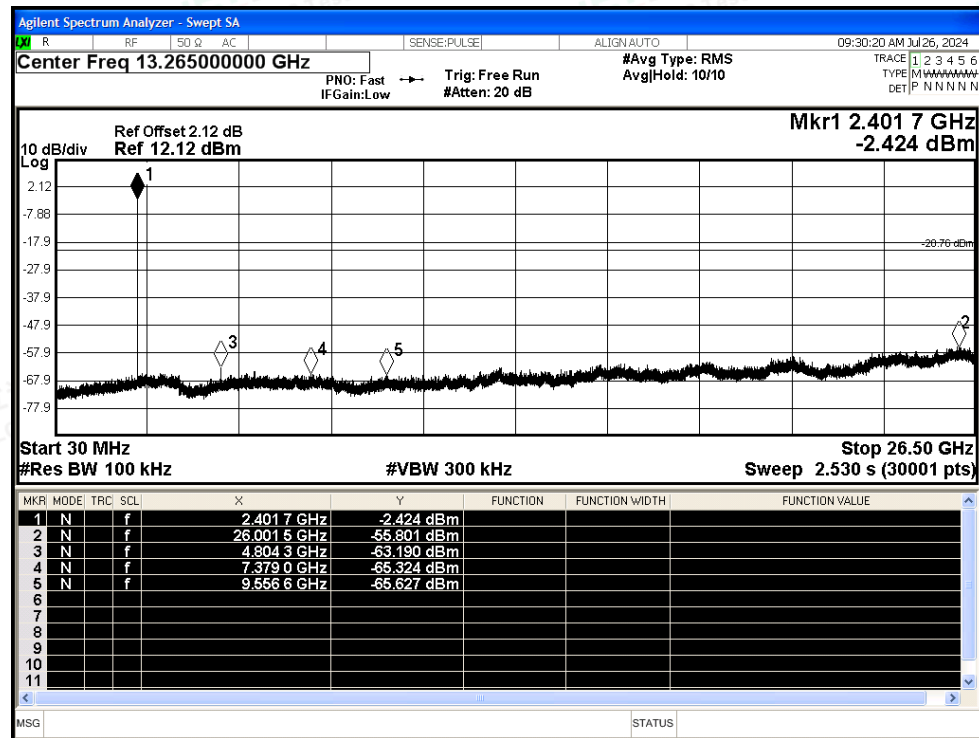


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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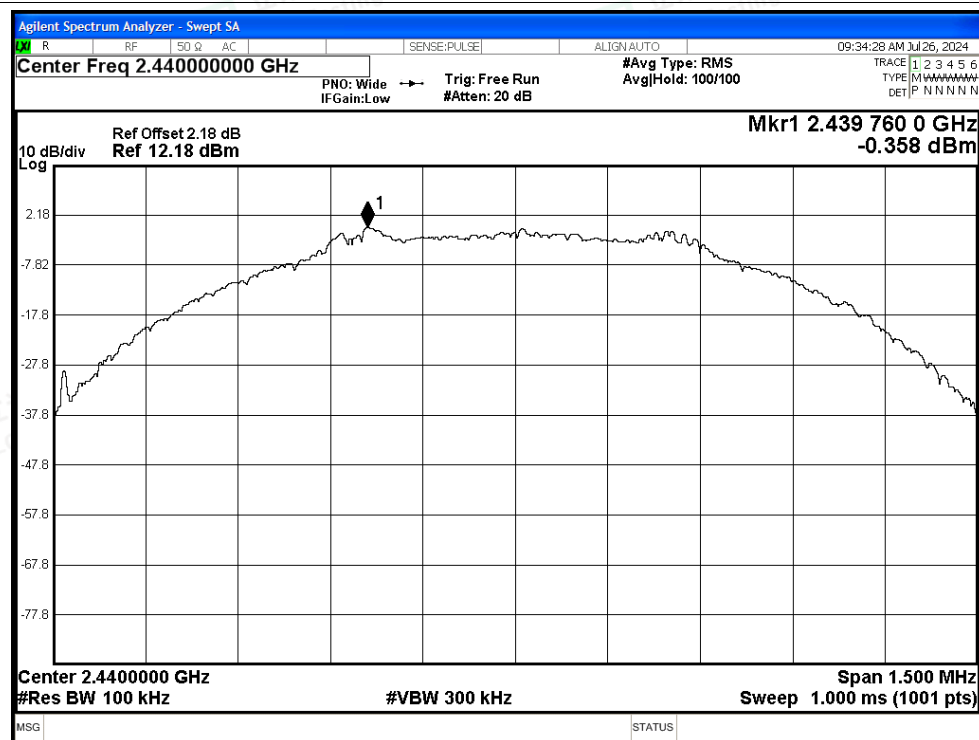
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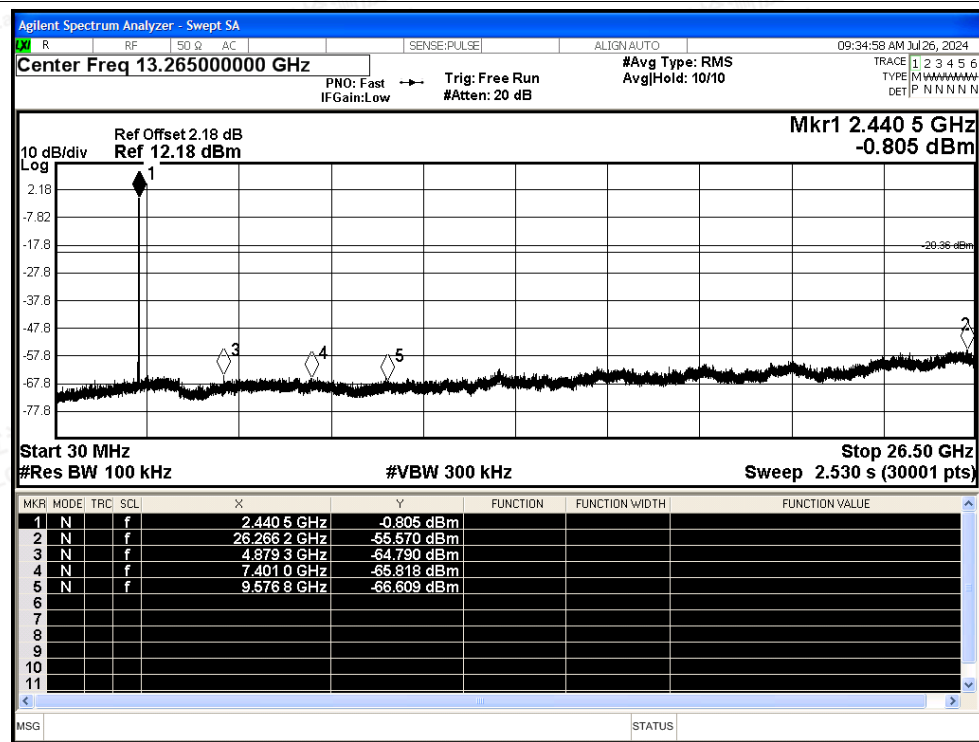
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref

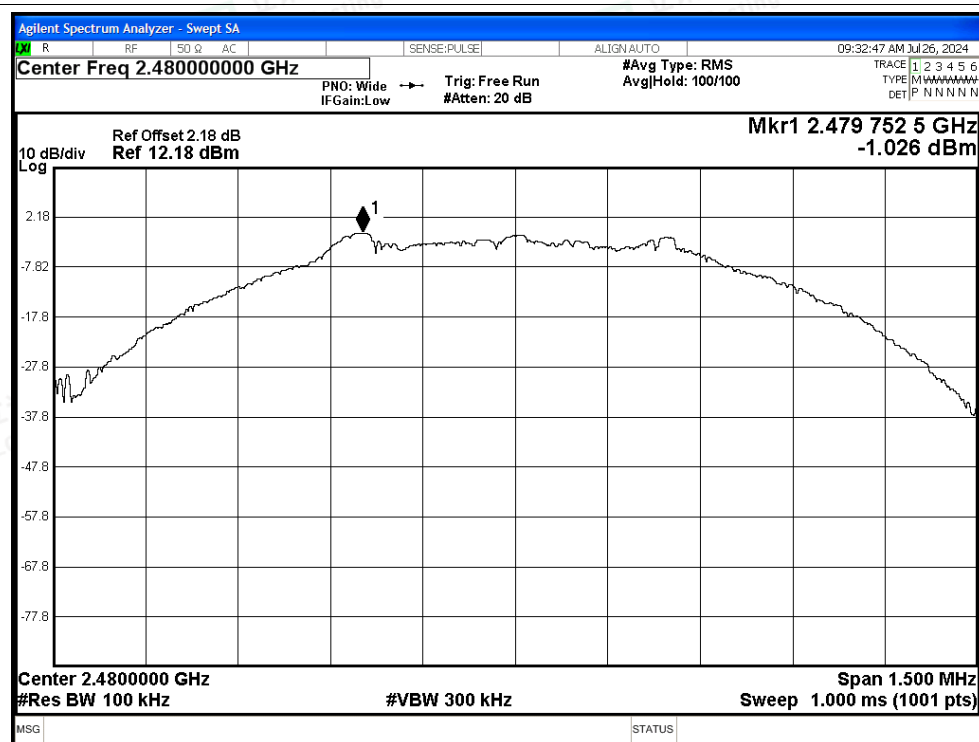


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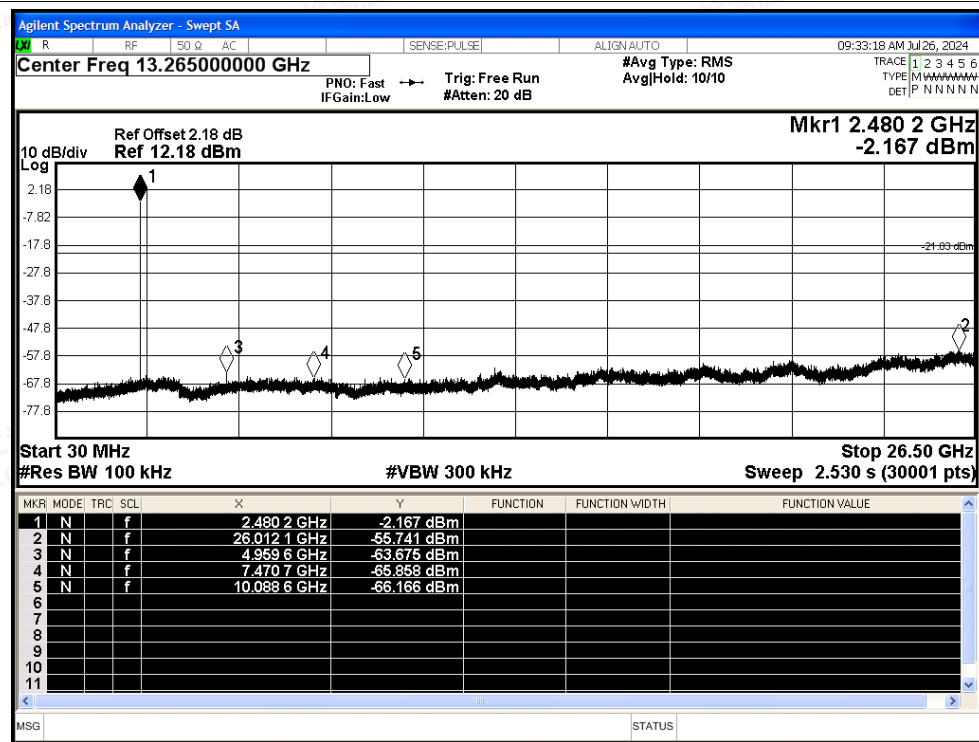




Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



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

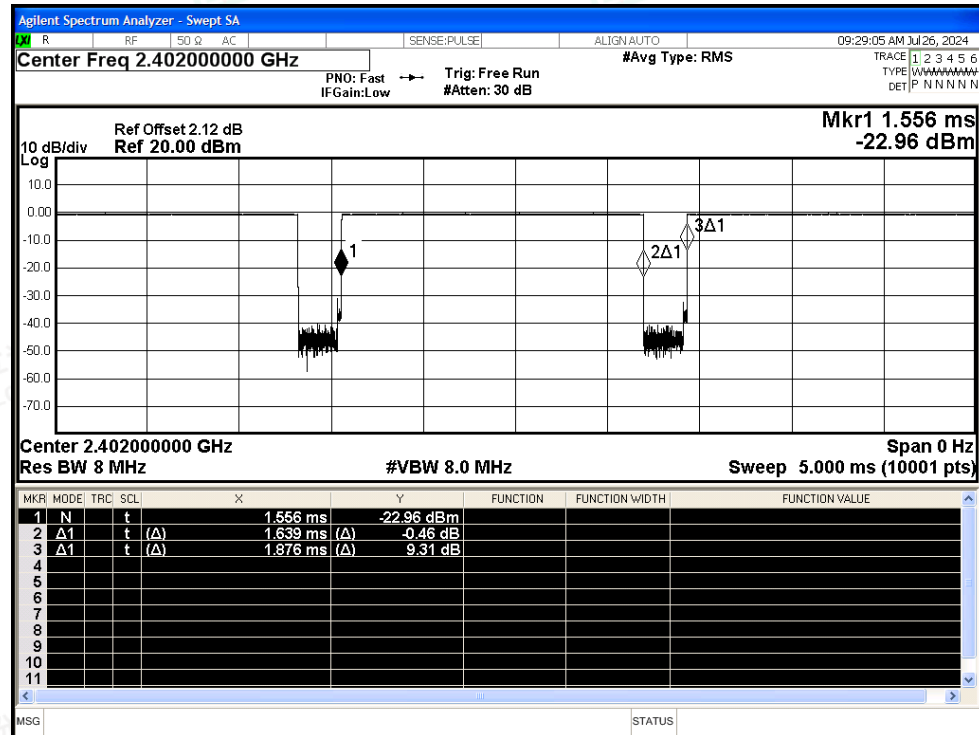


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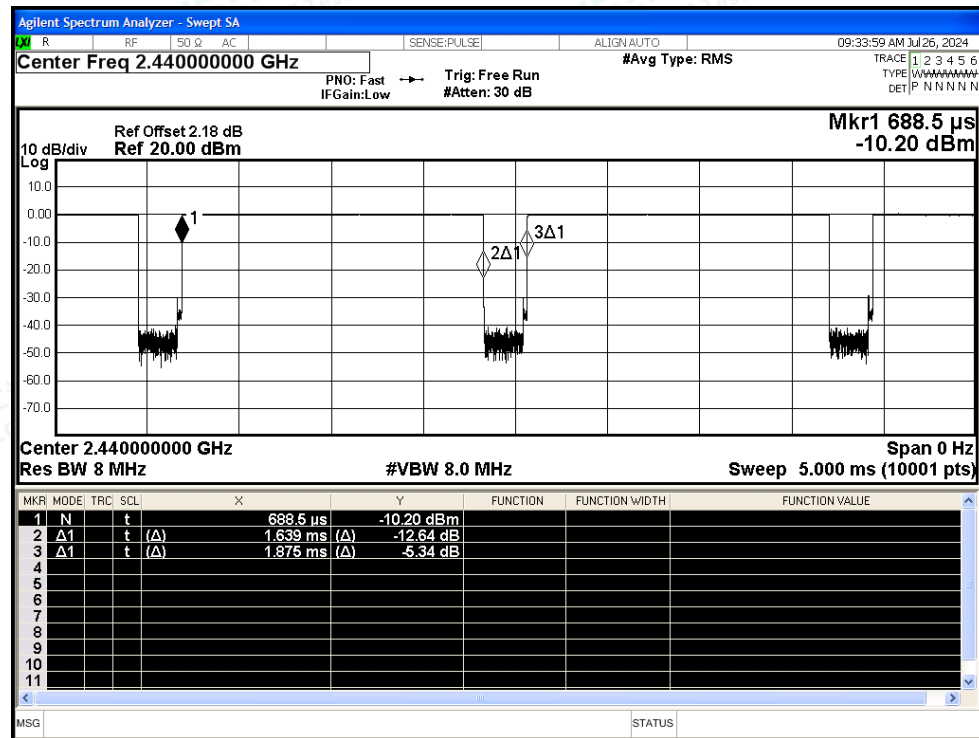


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

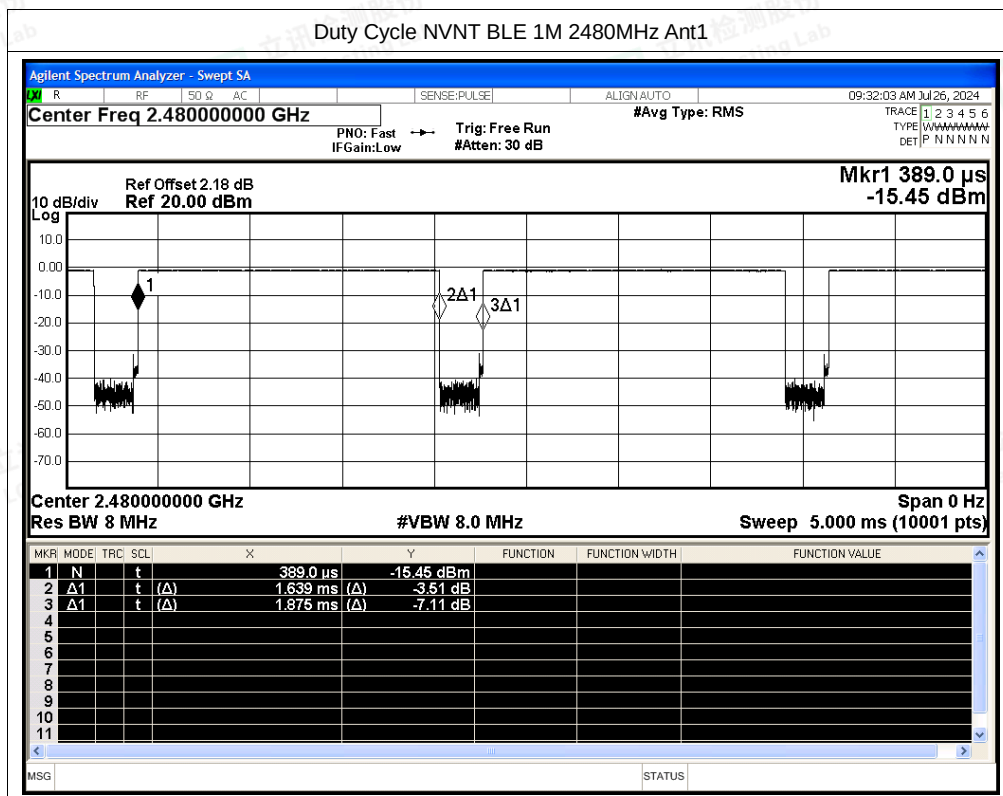


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A.7 Restrict Band

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	-51.01	2.17	-	46.42	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.62	2.17	0.59	39.4	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2358.288	-47.7	2.17	-	49.73	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2382.48	-57.63	2.17	0.59	40.39	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-51.01	2.17	-	46.42	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.66	2.17	0.59	39.36	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-50.58	2.17	-	46.85	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-58.23	2.17	0.59	39.79	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2488.504	-45.6	2.17	-	51.83	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.584	-57.1	2.17	0.59	40.92	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-50.17	2.17	-	47.26	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-57.63	2.17	0.59	40.39	Average	54	Pass



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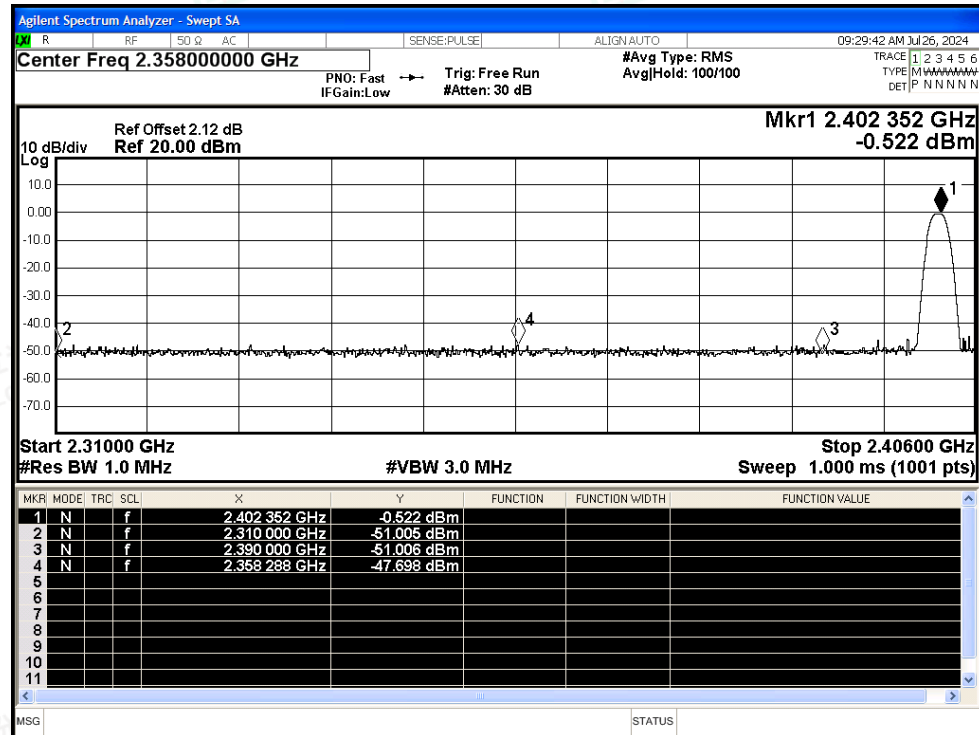
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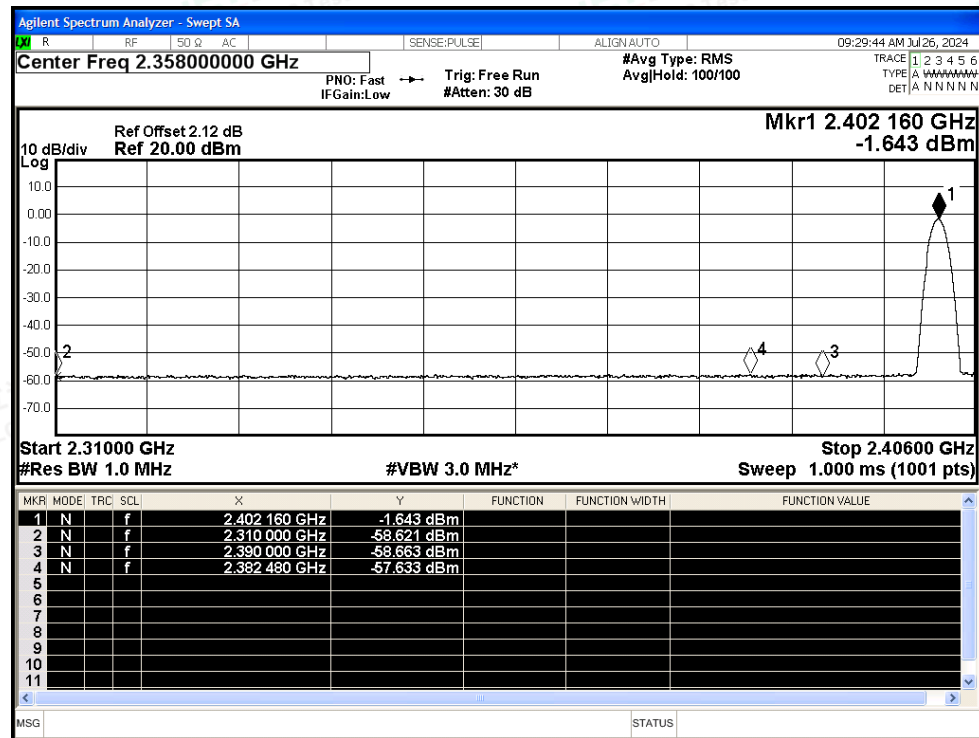


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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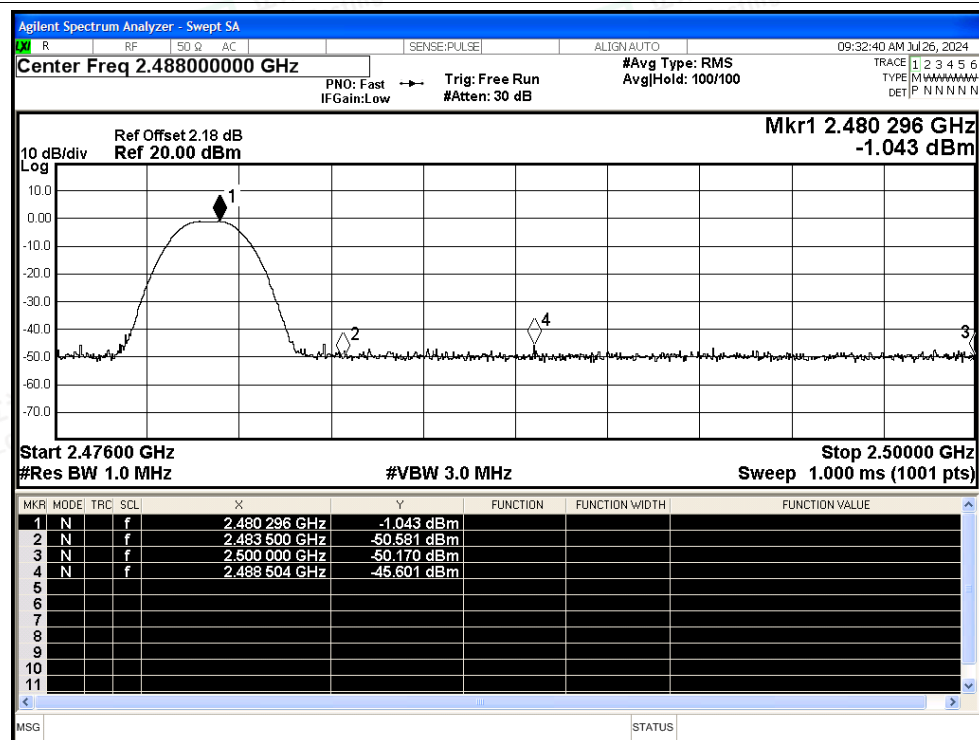
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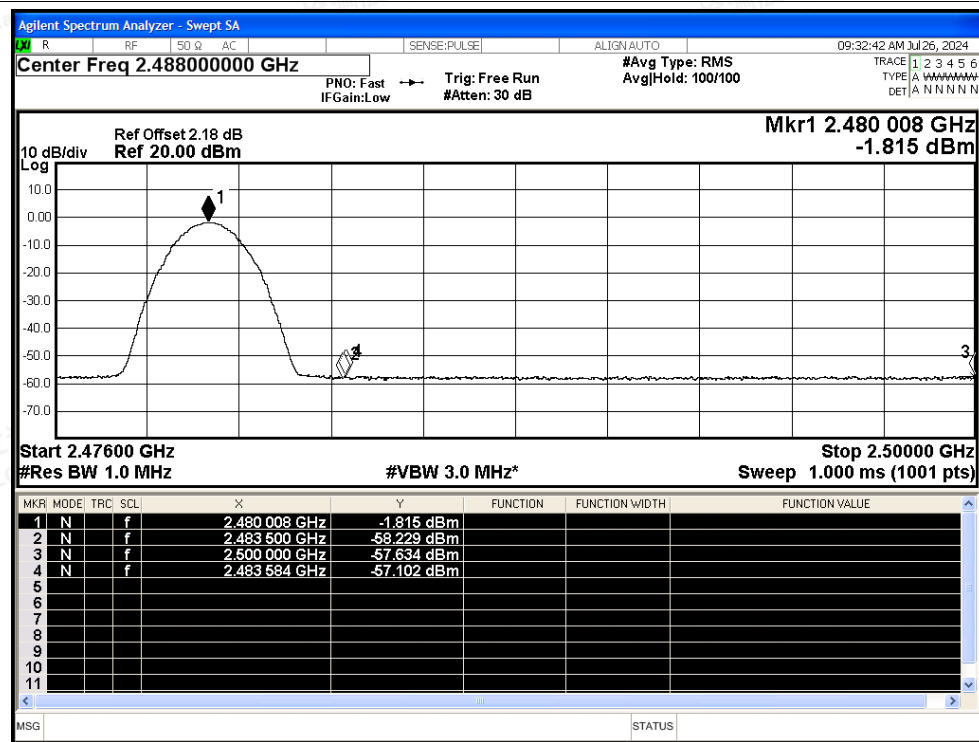
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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