



Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: Gamepad

Test Model: MOCUTE-061

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





A.1 -6dB Bandwidth

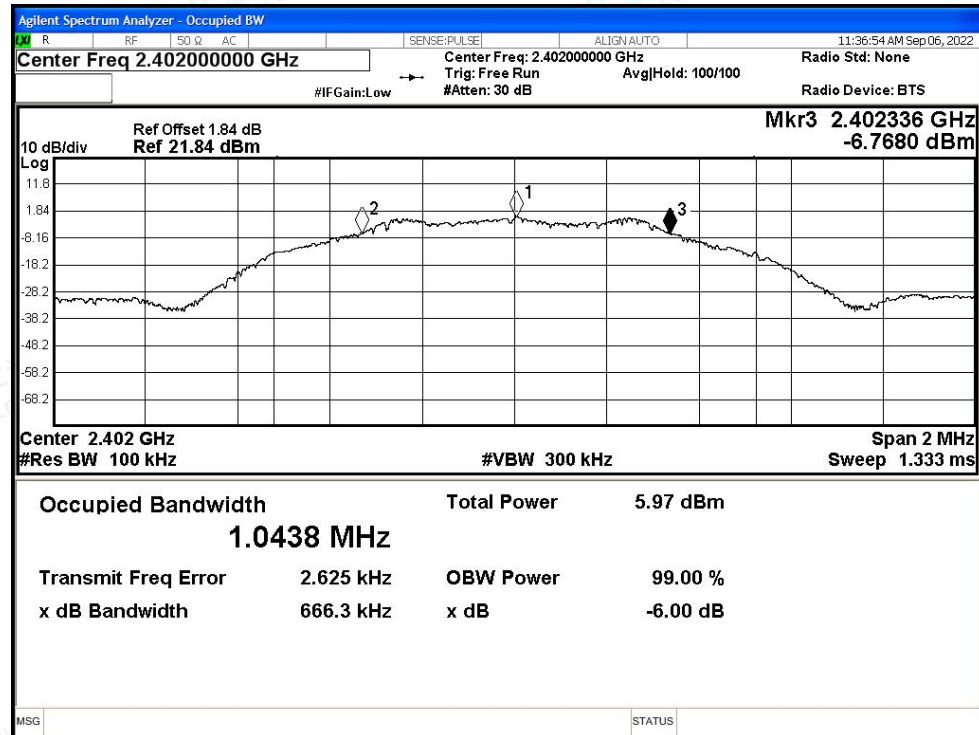
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.666	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.668	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.663	≥ 0.5	Pass



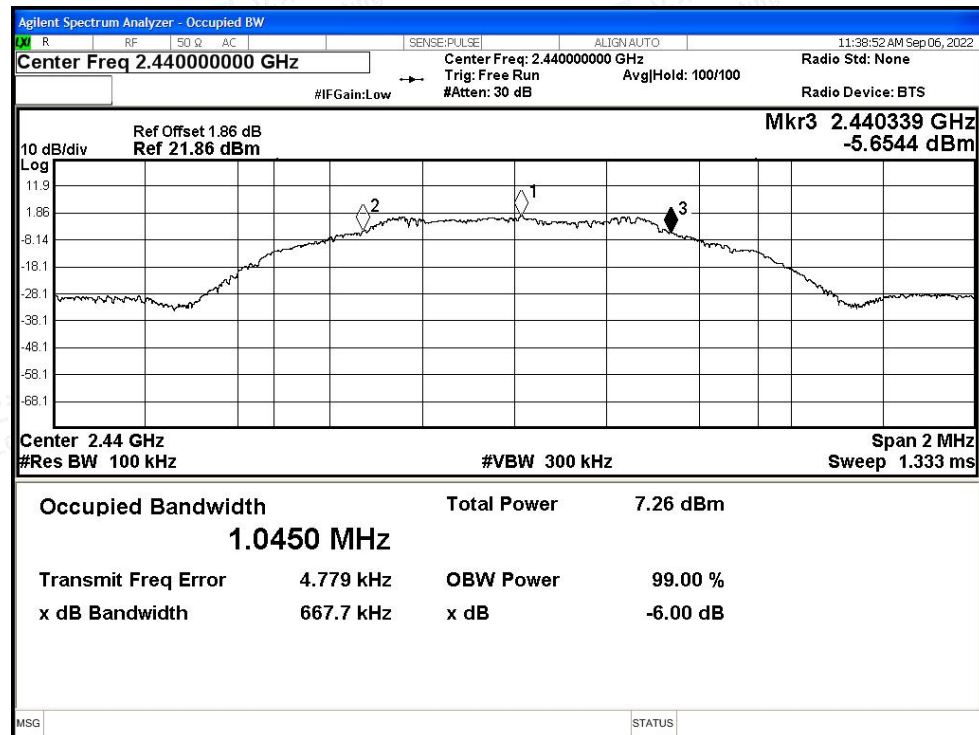


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

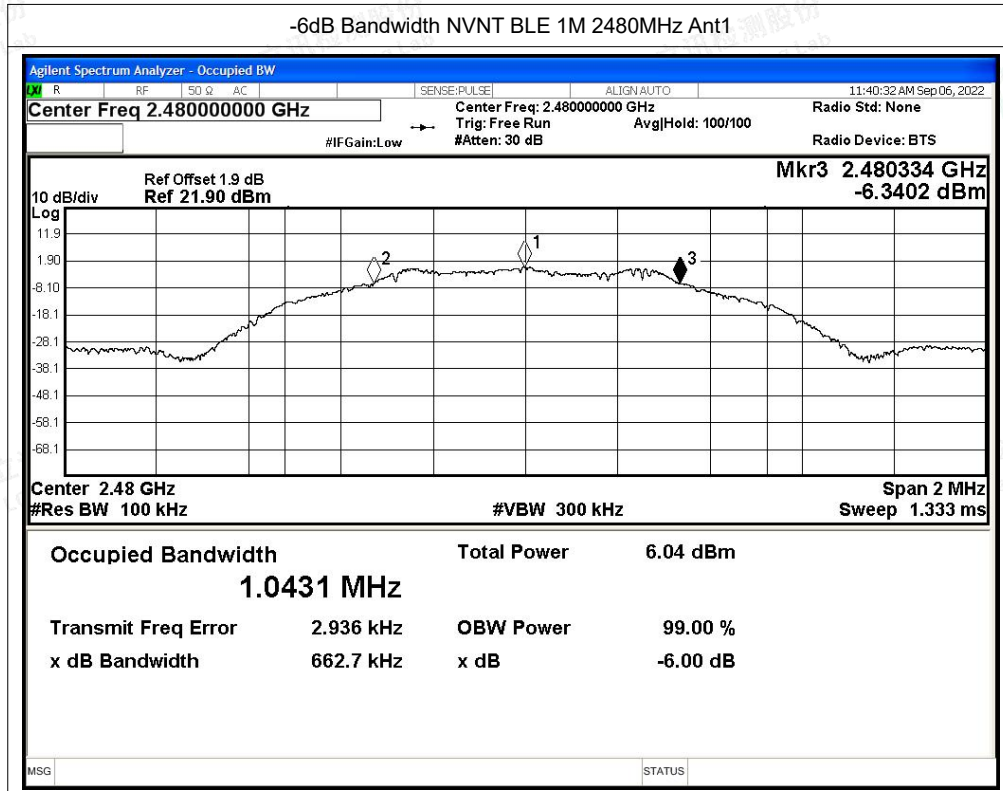


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A.2 Maximum Conducted Output Power

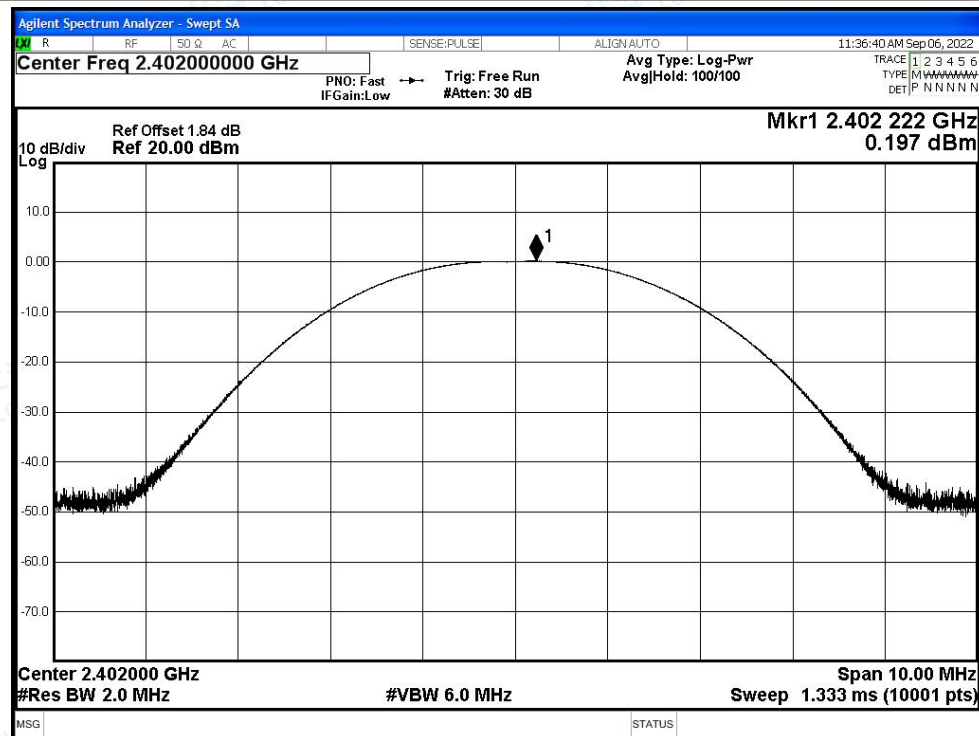
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	0.2	0	0.2	30	Pass
NVNT	BLE 1M	2440	Ant1	0.61	0	0.61	30	Pass
NVNT	BLE 1M	2480	Ant1	0.23	0	0.23	30	Pass



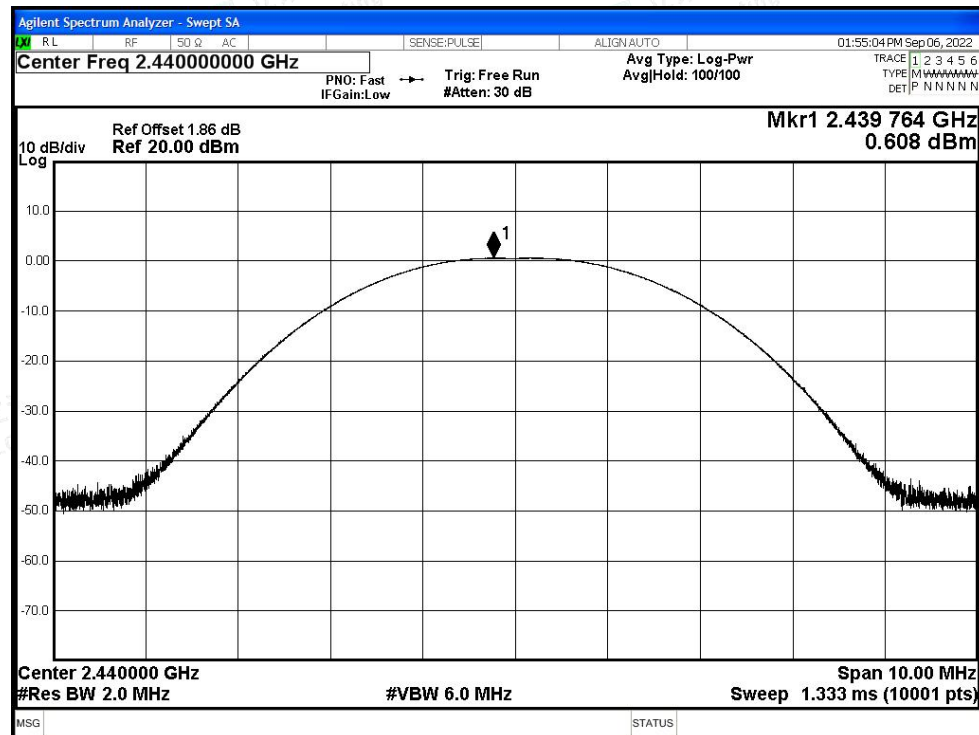


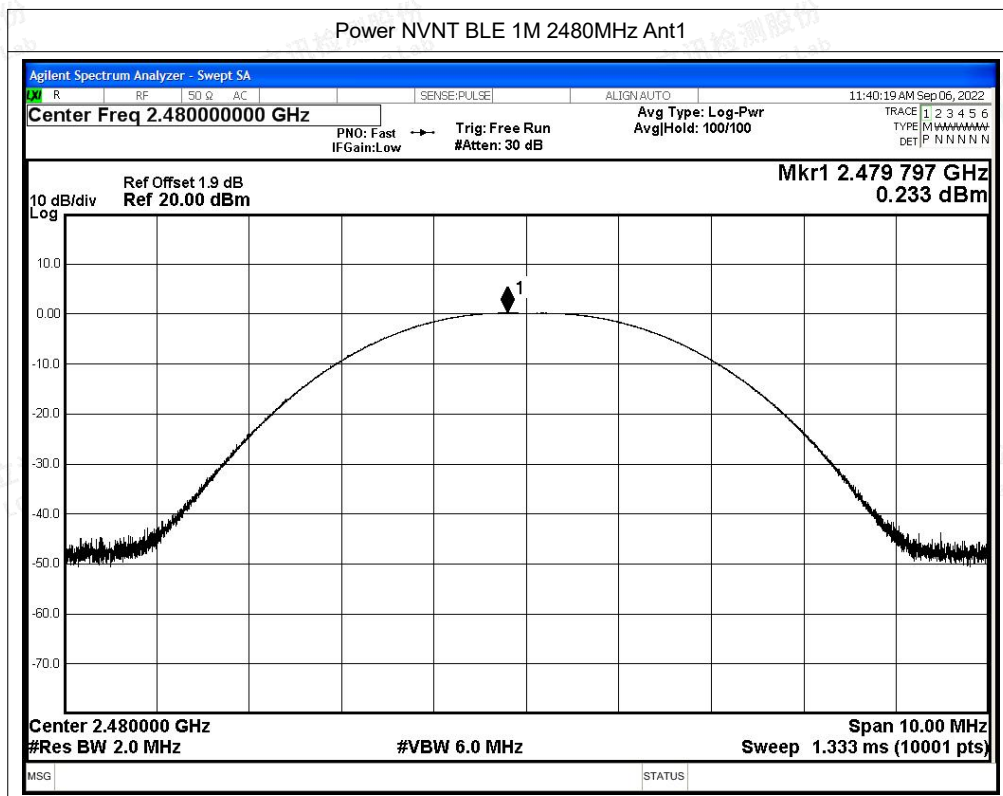
Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1







A.3 Maximum Power Spectral Density Level

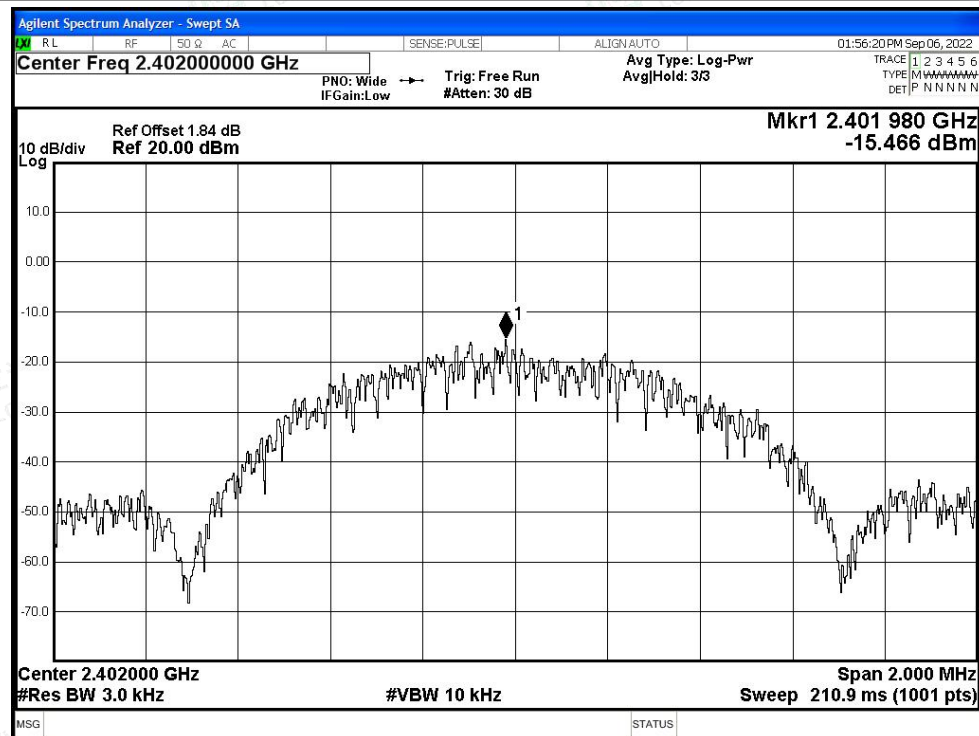
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-15.47	0	-15.47	8	Pass
NVNT	BLE 1M	2440	Ant1	-14.39	0	-14.39	8	Pass
NVNT	BLE 1M	2480	Ant1	-15.42	0	-15.42	8	Pass



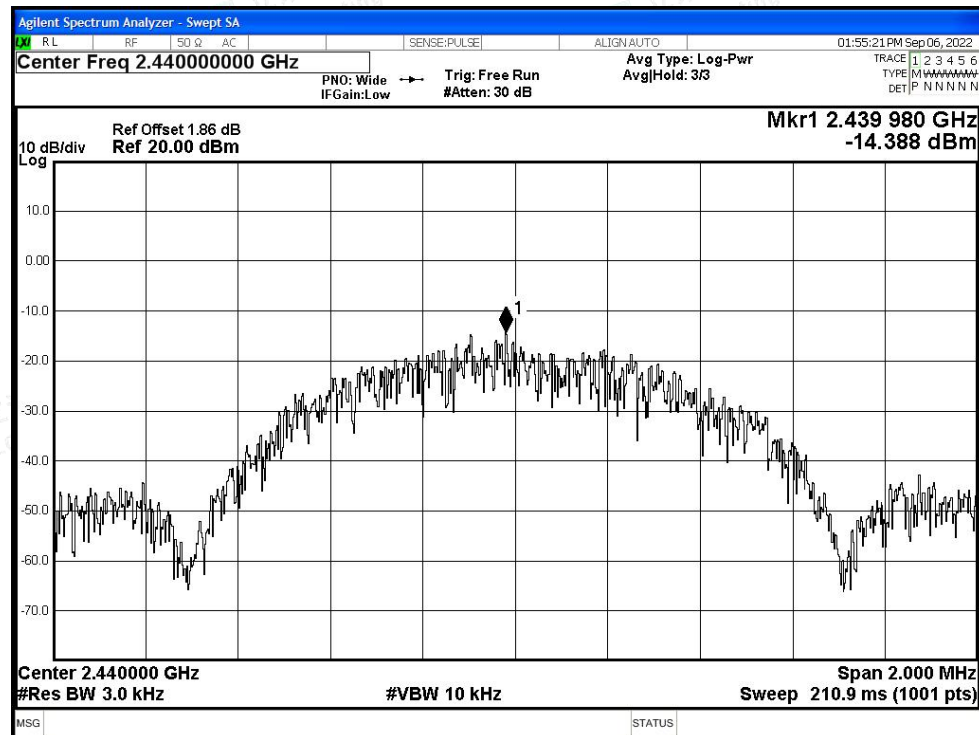


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1

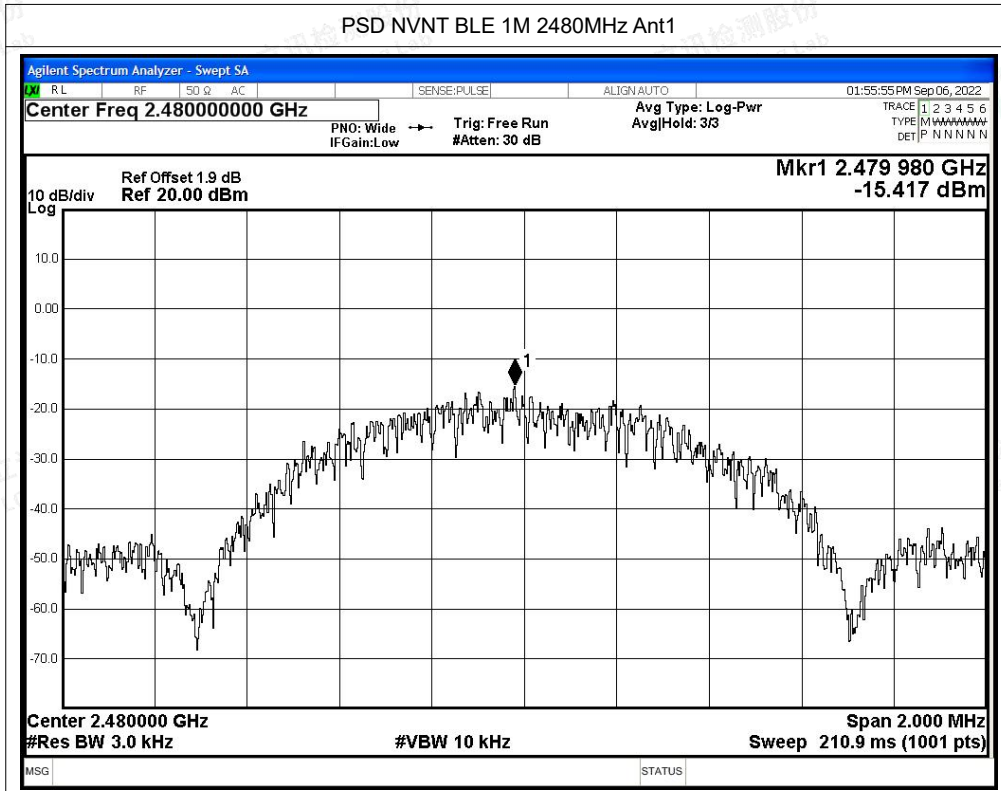


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A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-57.23	-20	Pass
NVNT	BLE 1M	2480	Ant1	-56.55	-20	Pass

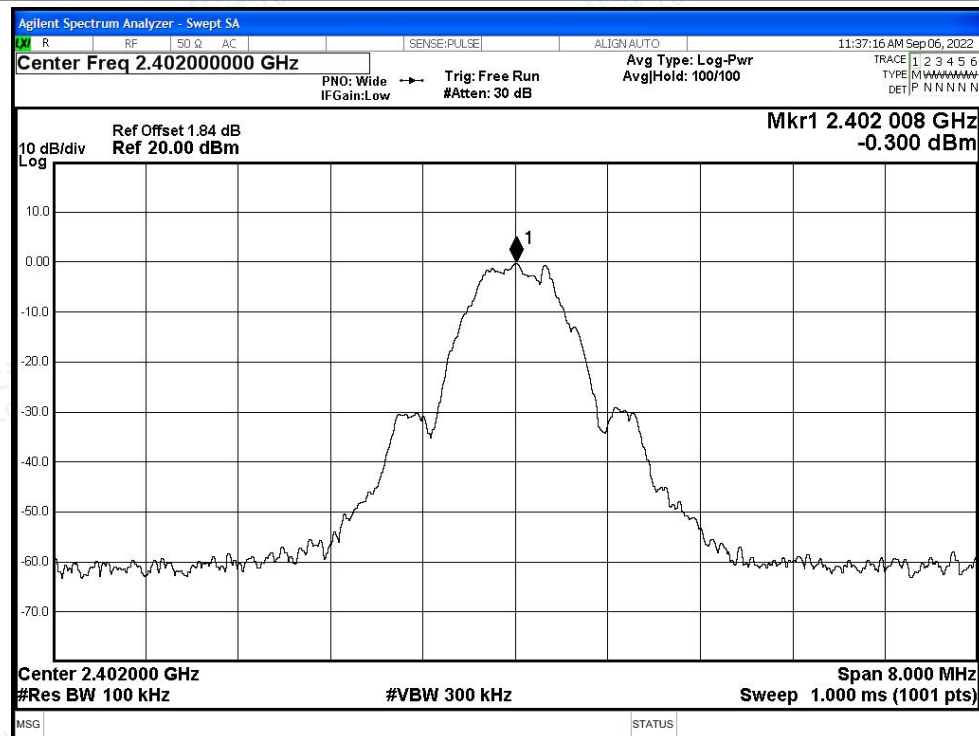


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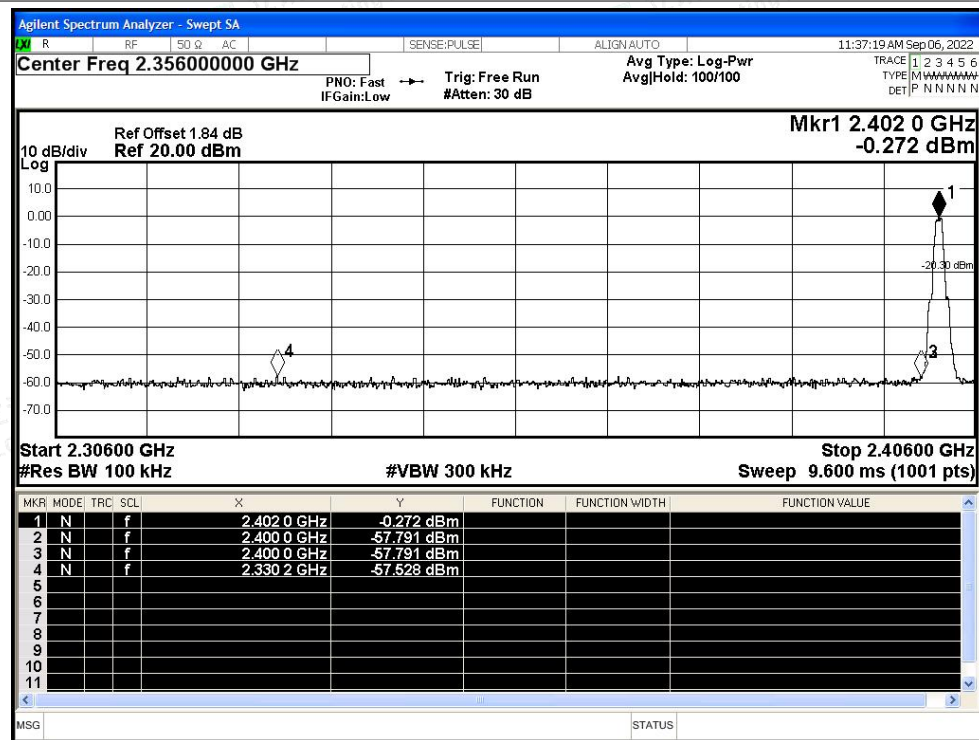


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission

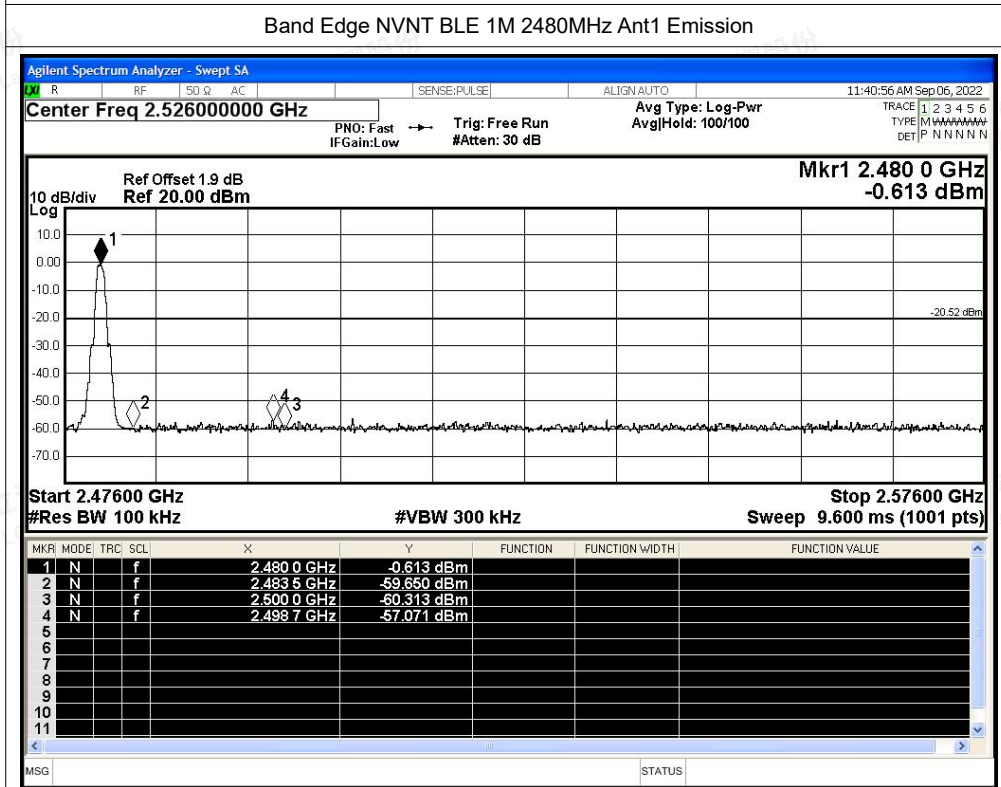
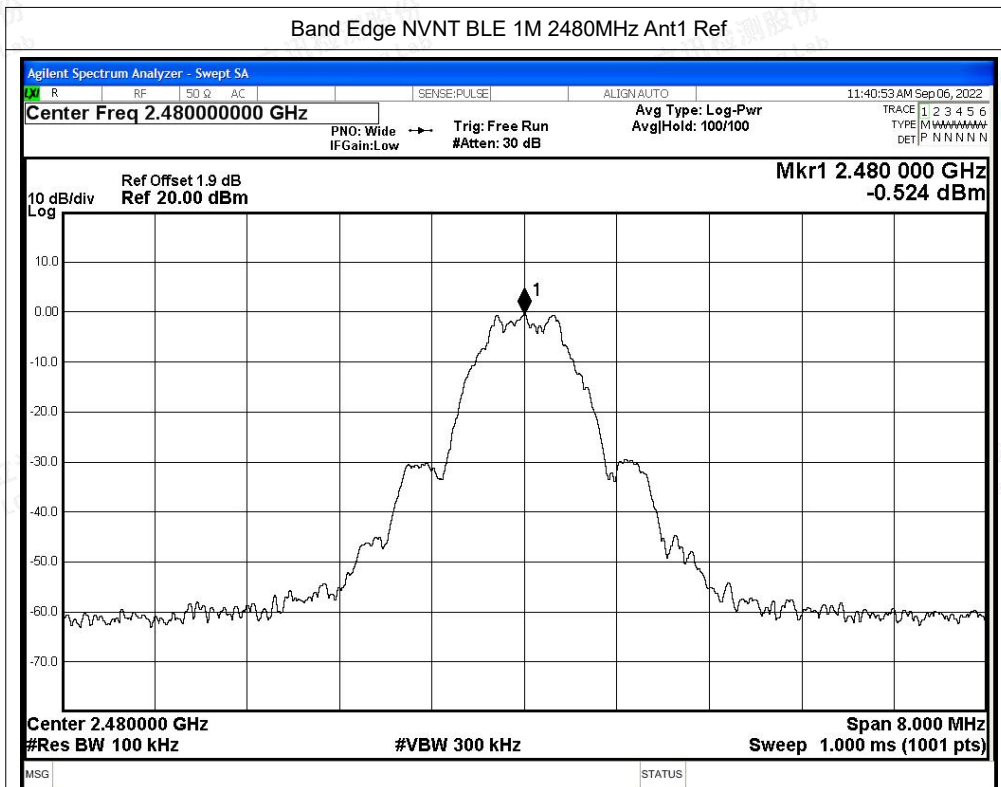


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A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-55.68	-20	Pass
NVNT	BLE 1M	2440	Ant1	-56.82	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.85	-20	Pass

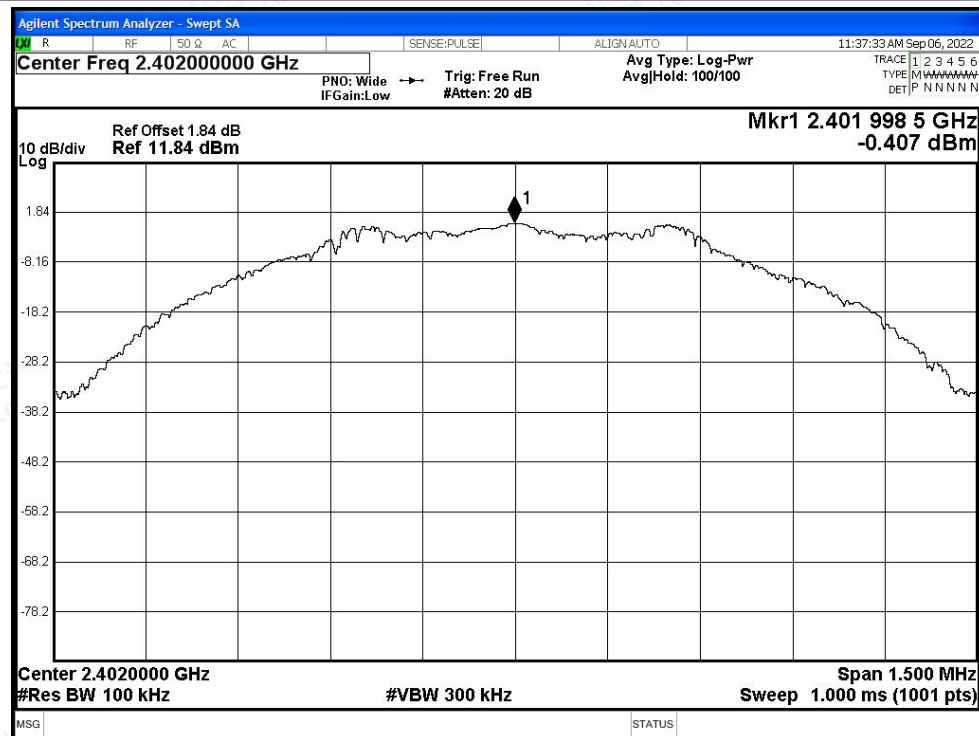


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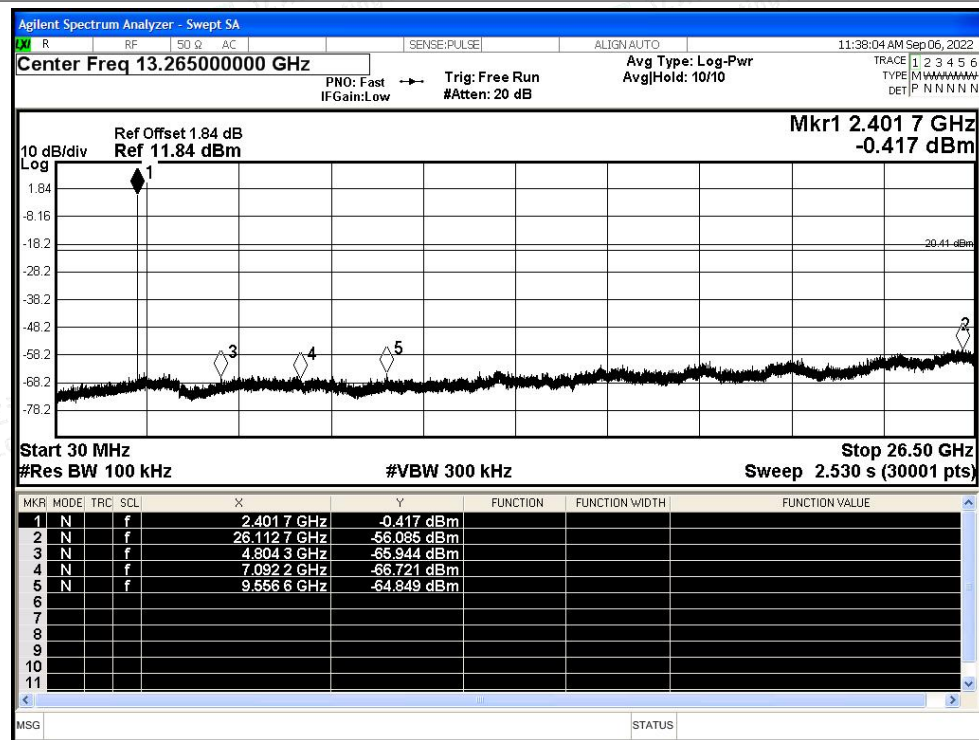


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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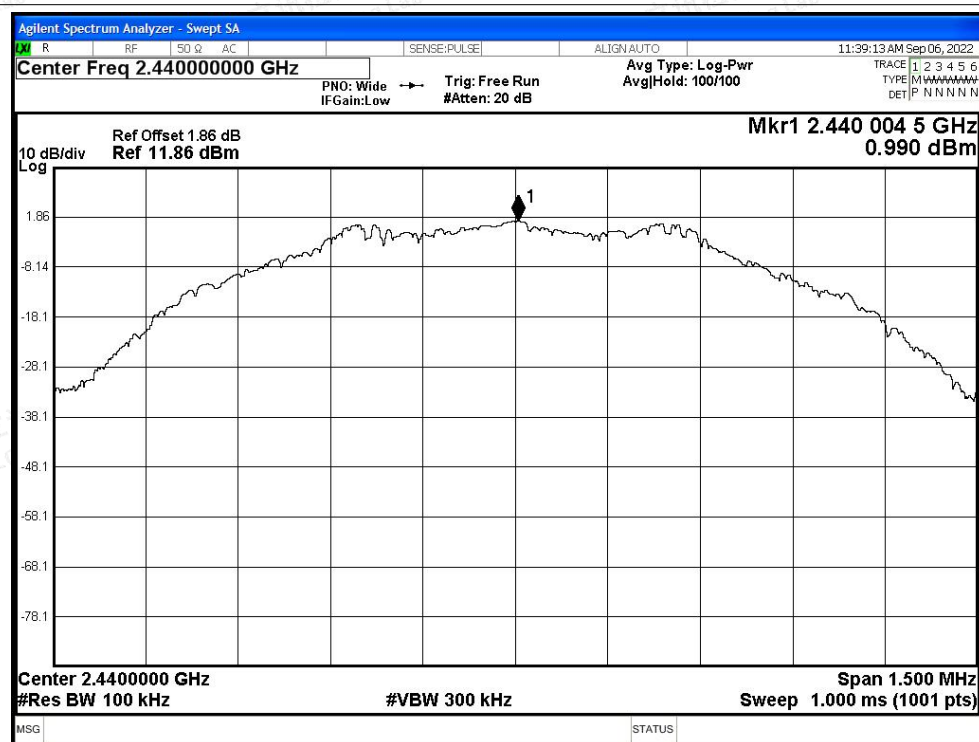
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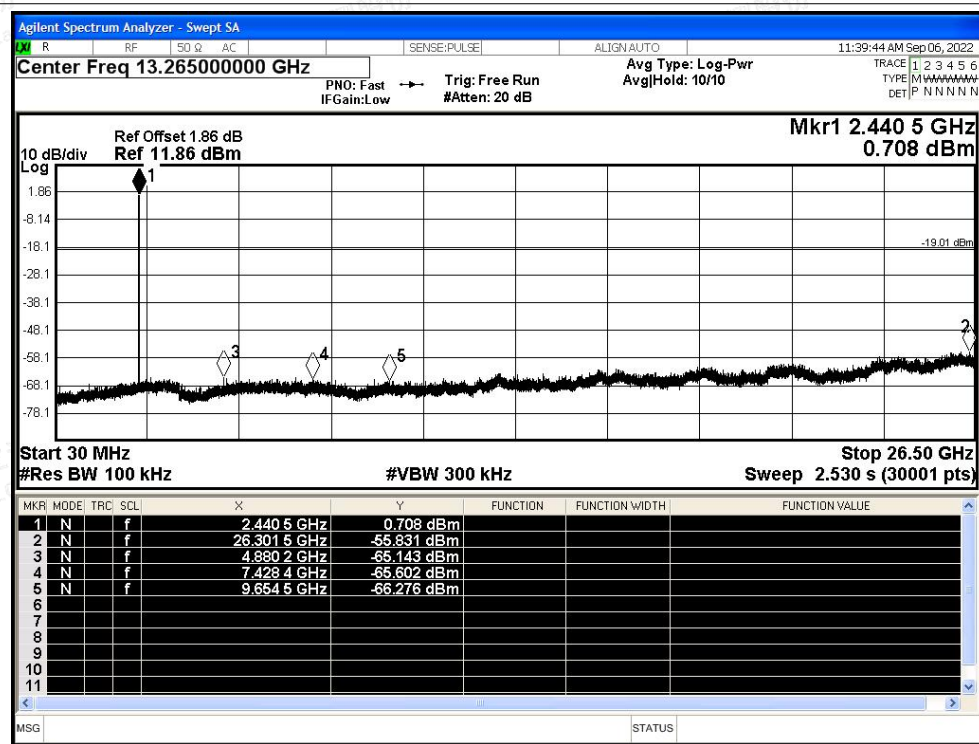
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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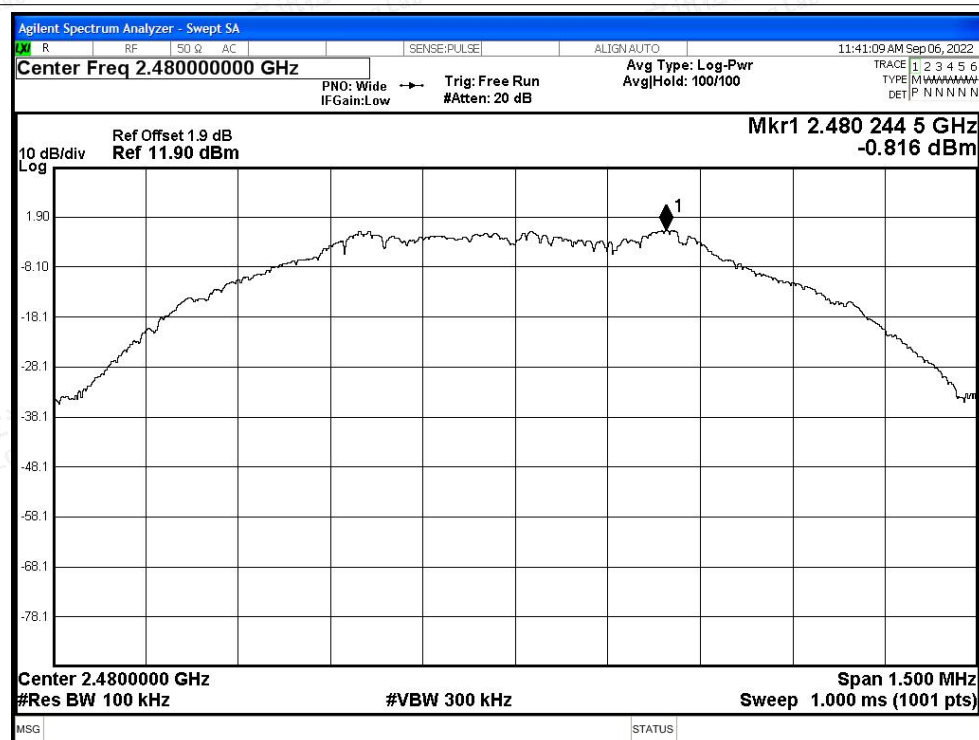
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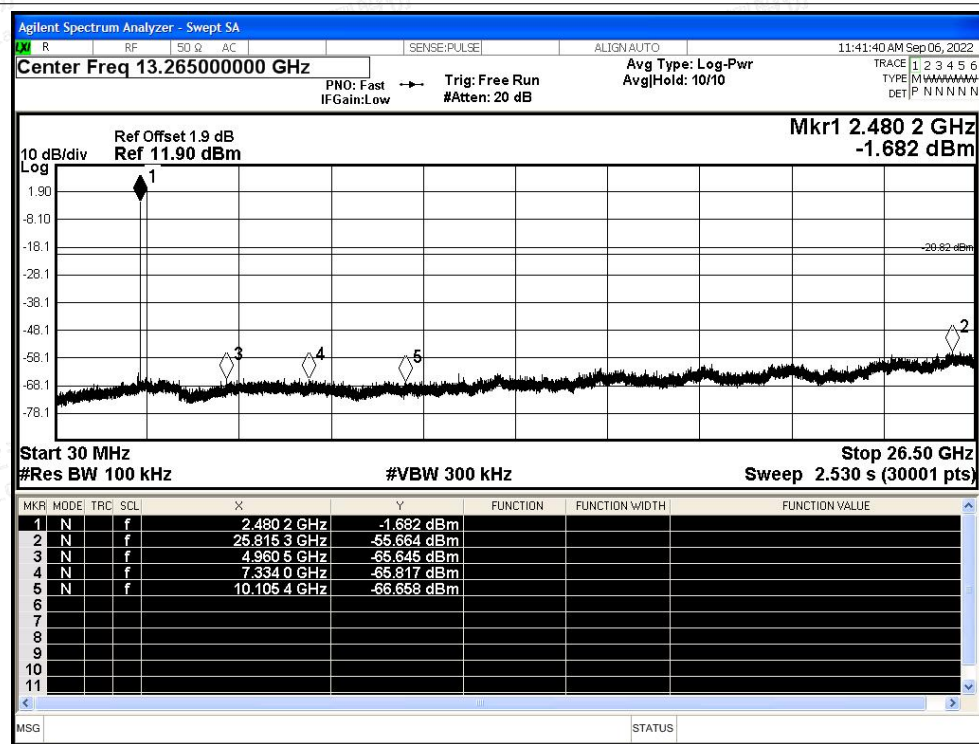
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	61.44	2.12	2.6
NVNT	BLE 1M	2440	Ant1	61.44	2.12	2.6
NVNT	BLE 1M	2480	Ant1	61.44	2.12	2.6

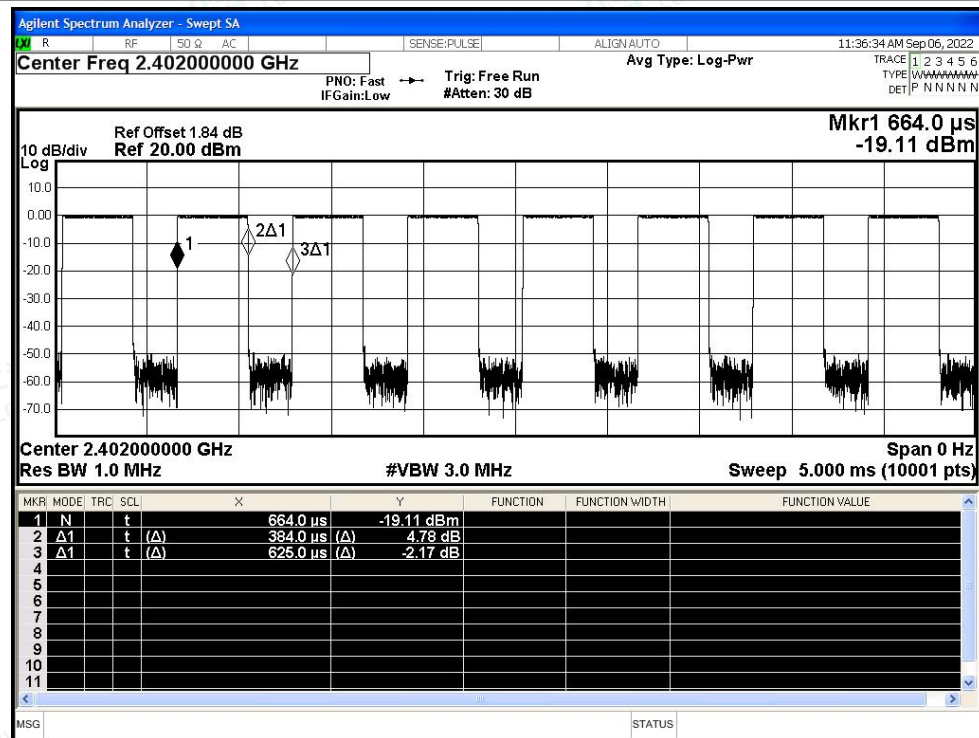


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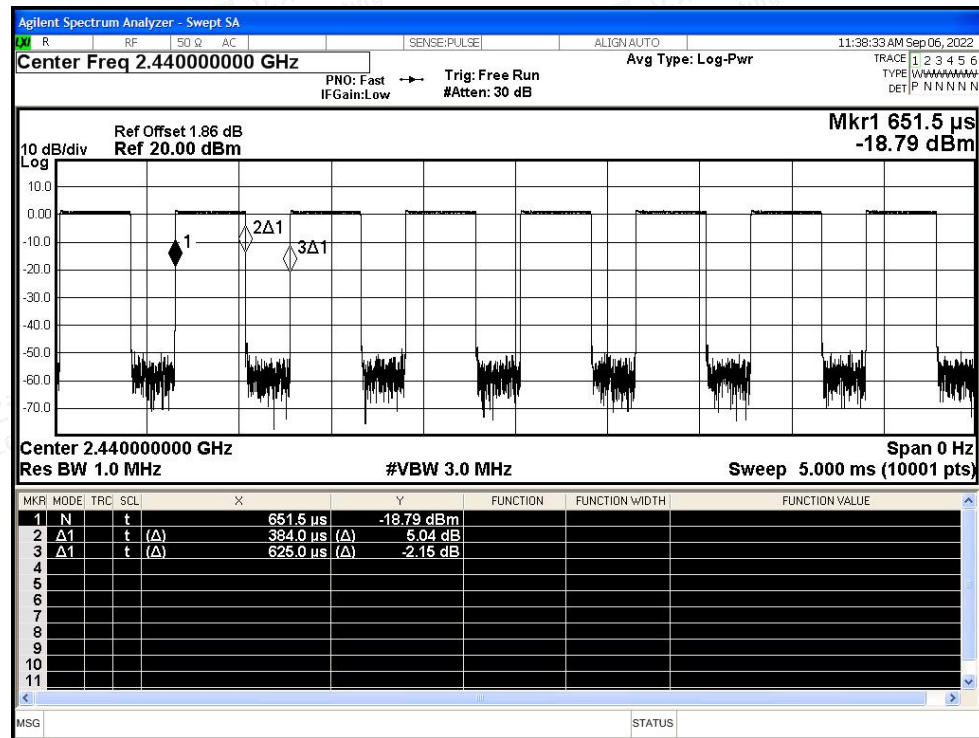


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1

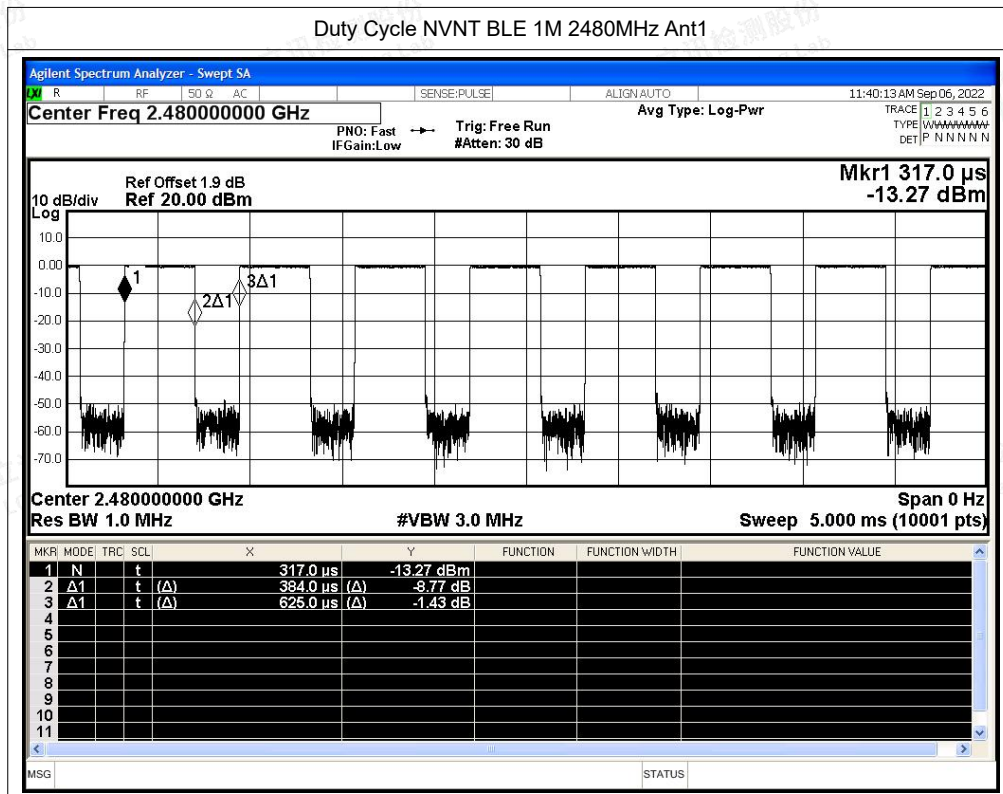


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A.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-49.05	2	48.21	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-59.98	2	37.28	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2317.104	-47.57	2	49.69	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2376.144	-59.22	2	38.04	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-50.35	2	46.91	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-59.69	2	37.57	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-51.03	2	46.23	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-59.36	2	37.9	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2490.808	-47.67	2	49.59	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.992	-58.47	2	38.79	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-50.89	2	46.37	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-59.59	2	37.67	Average	54	Pass

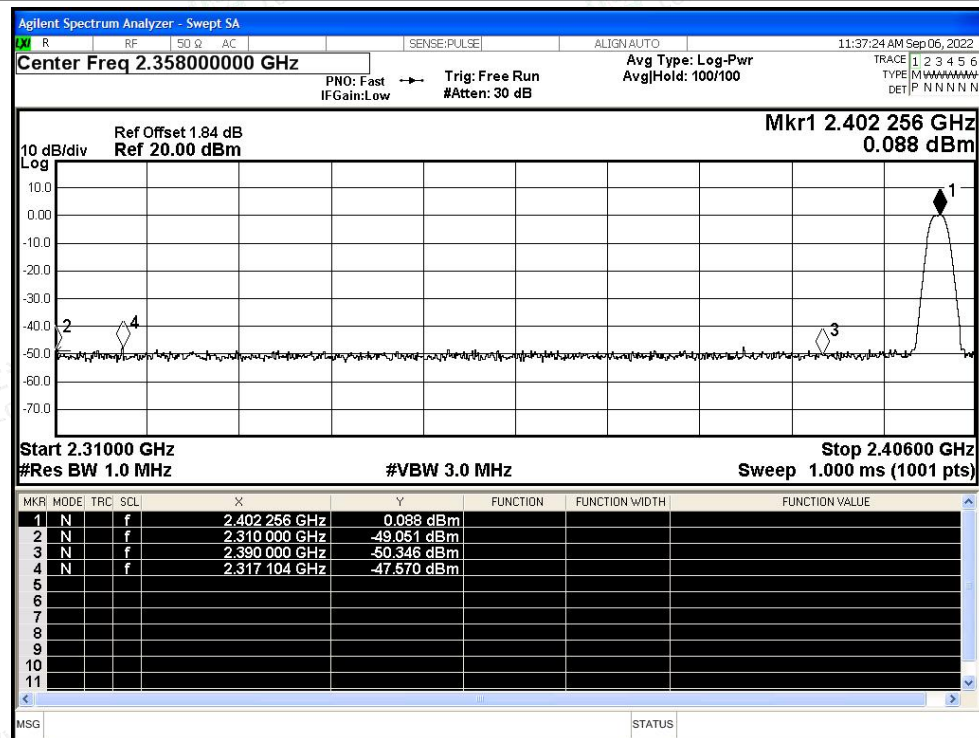


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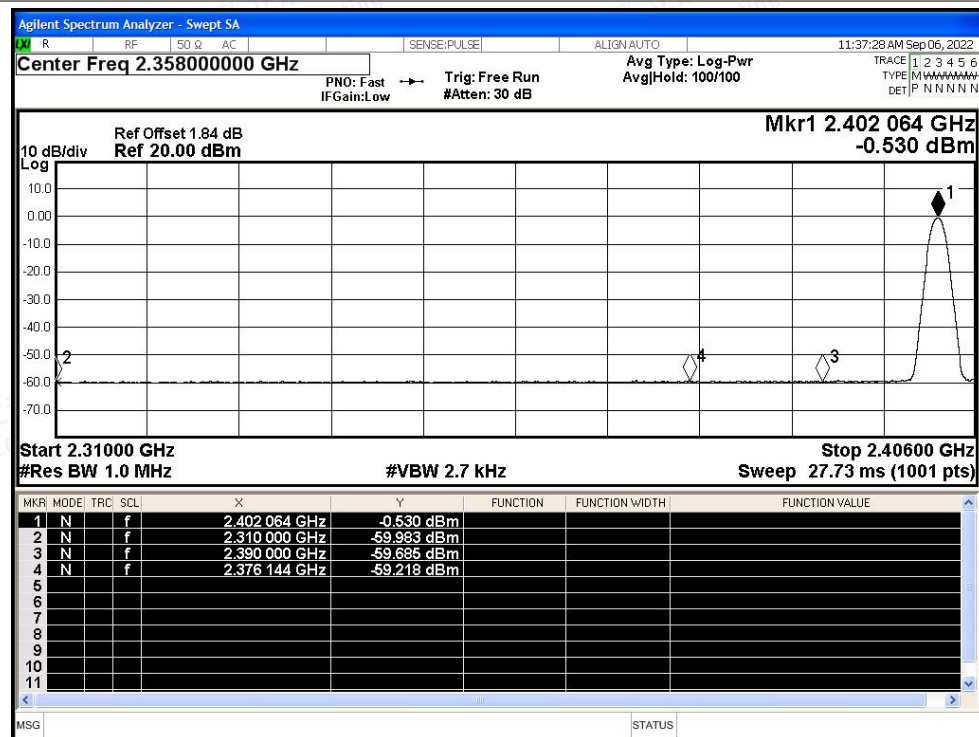


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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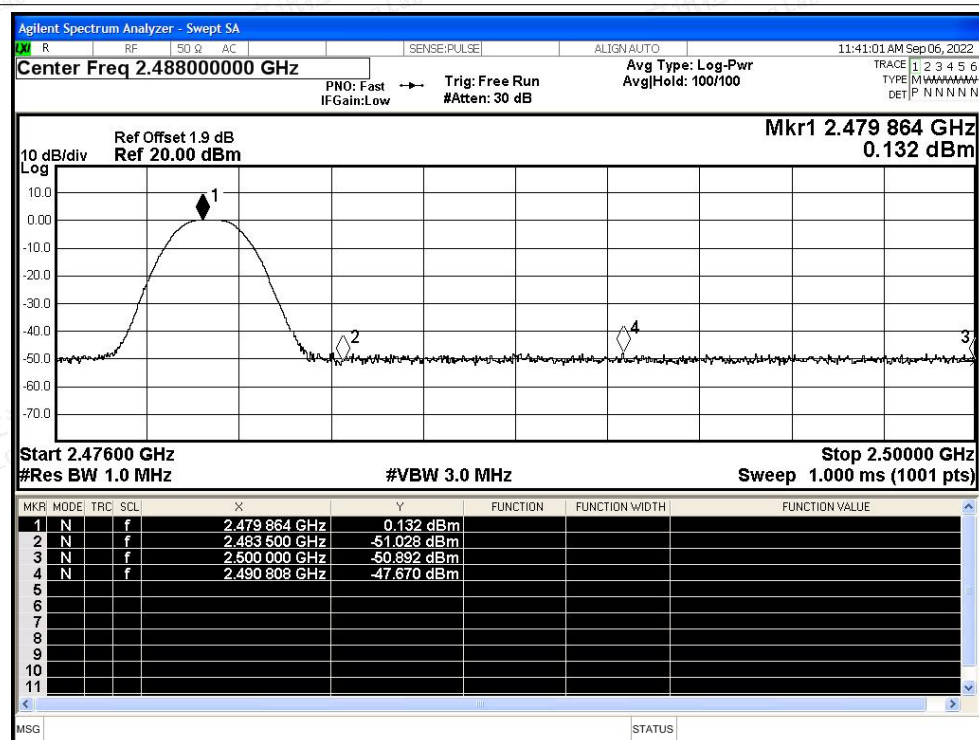
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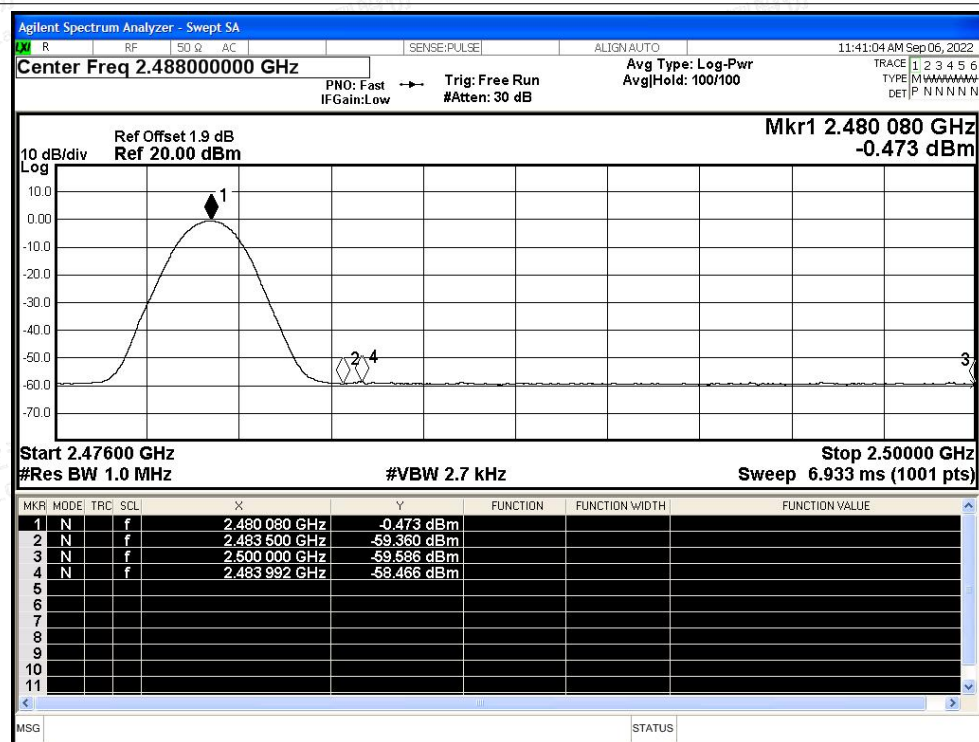
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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