



Appendix A

RF Test Data for BT LE(Conducted Measurement)

Product Name: 23 inch Revolve Pendant RGB IC w/ Remote LED light BL

Test Model: PDT-RVTWR-BL

Environmental Conditions	
Temperature:	23.5°C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun

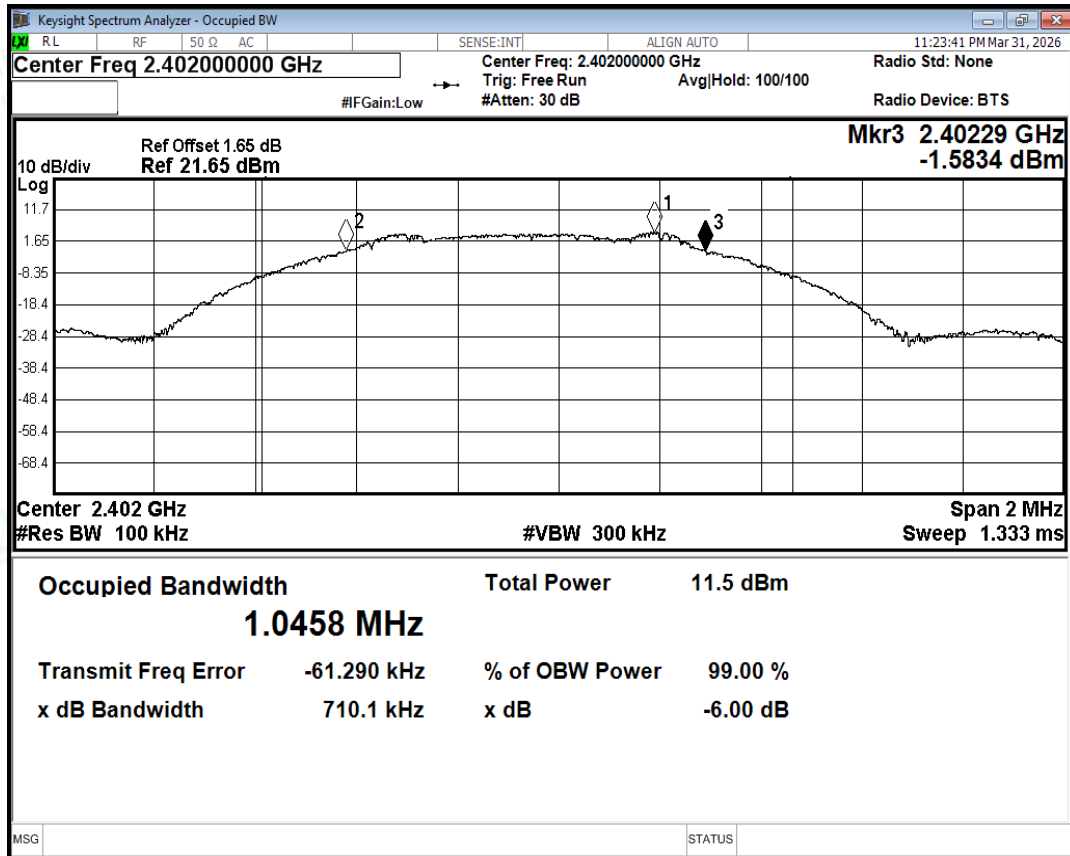




A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.7101	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.7217	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.7197	0.5	Pass





-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1

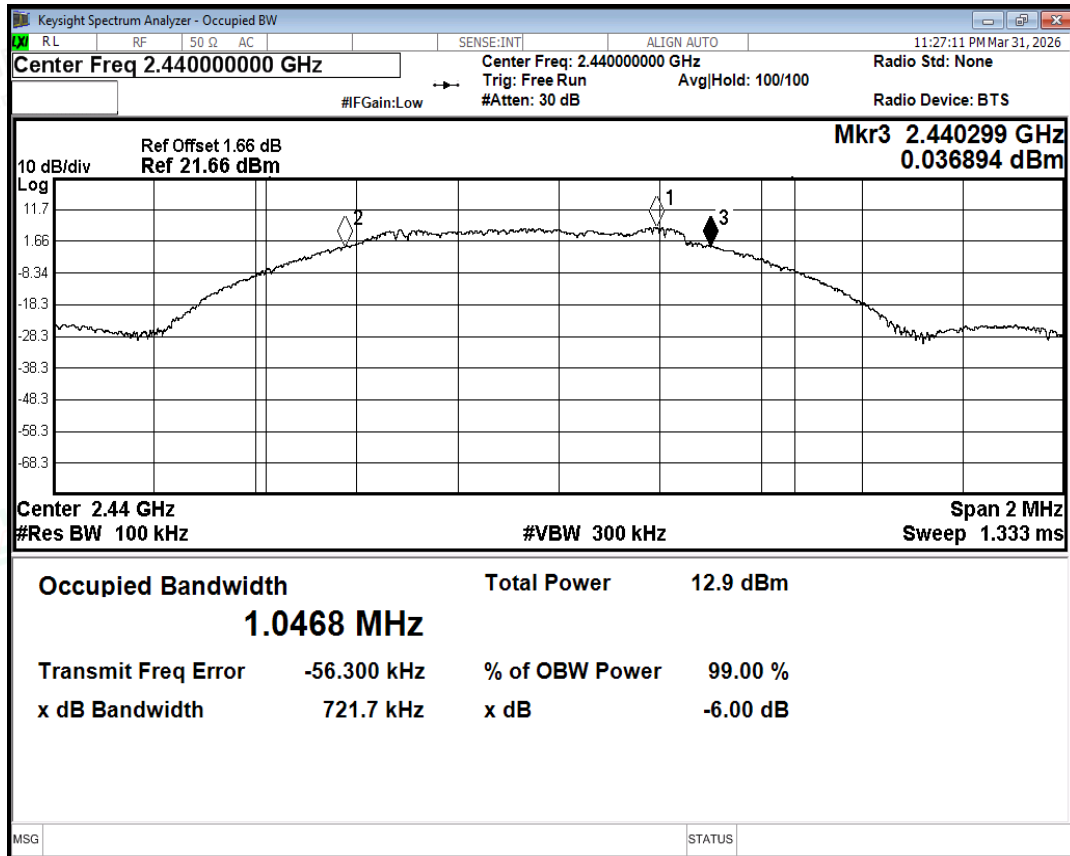


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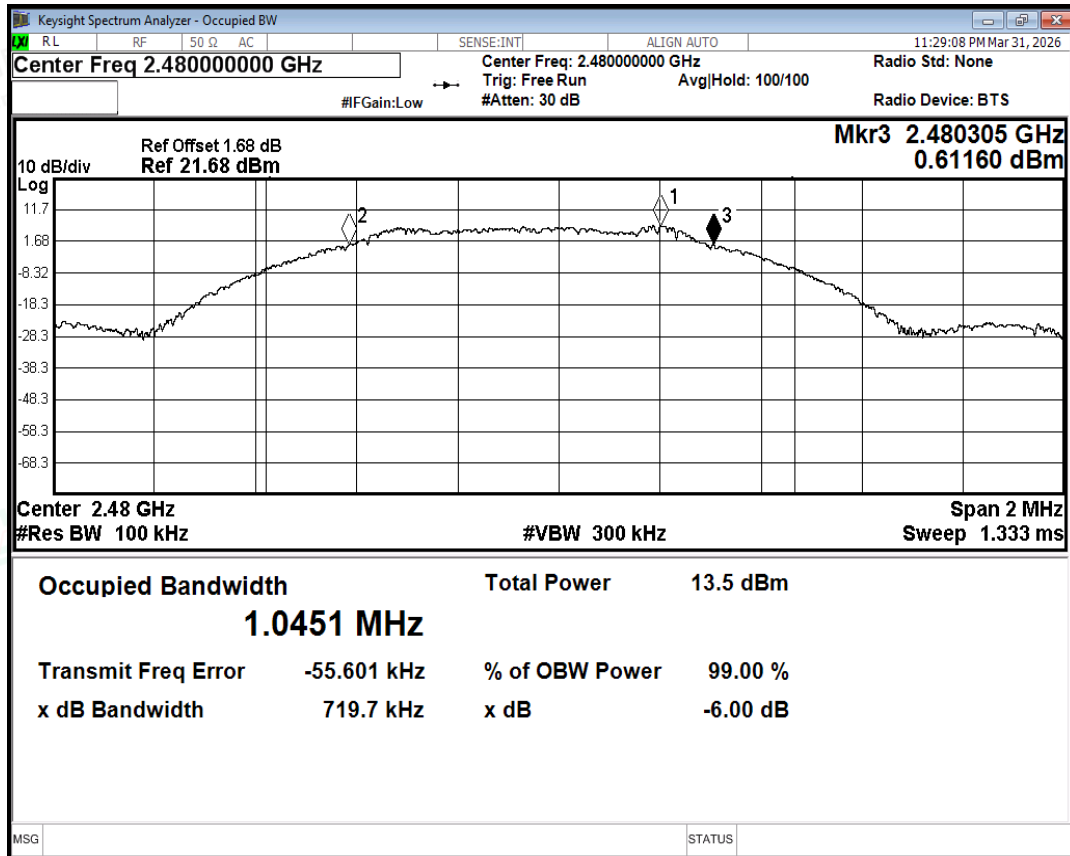
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-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1





-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1

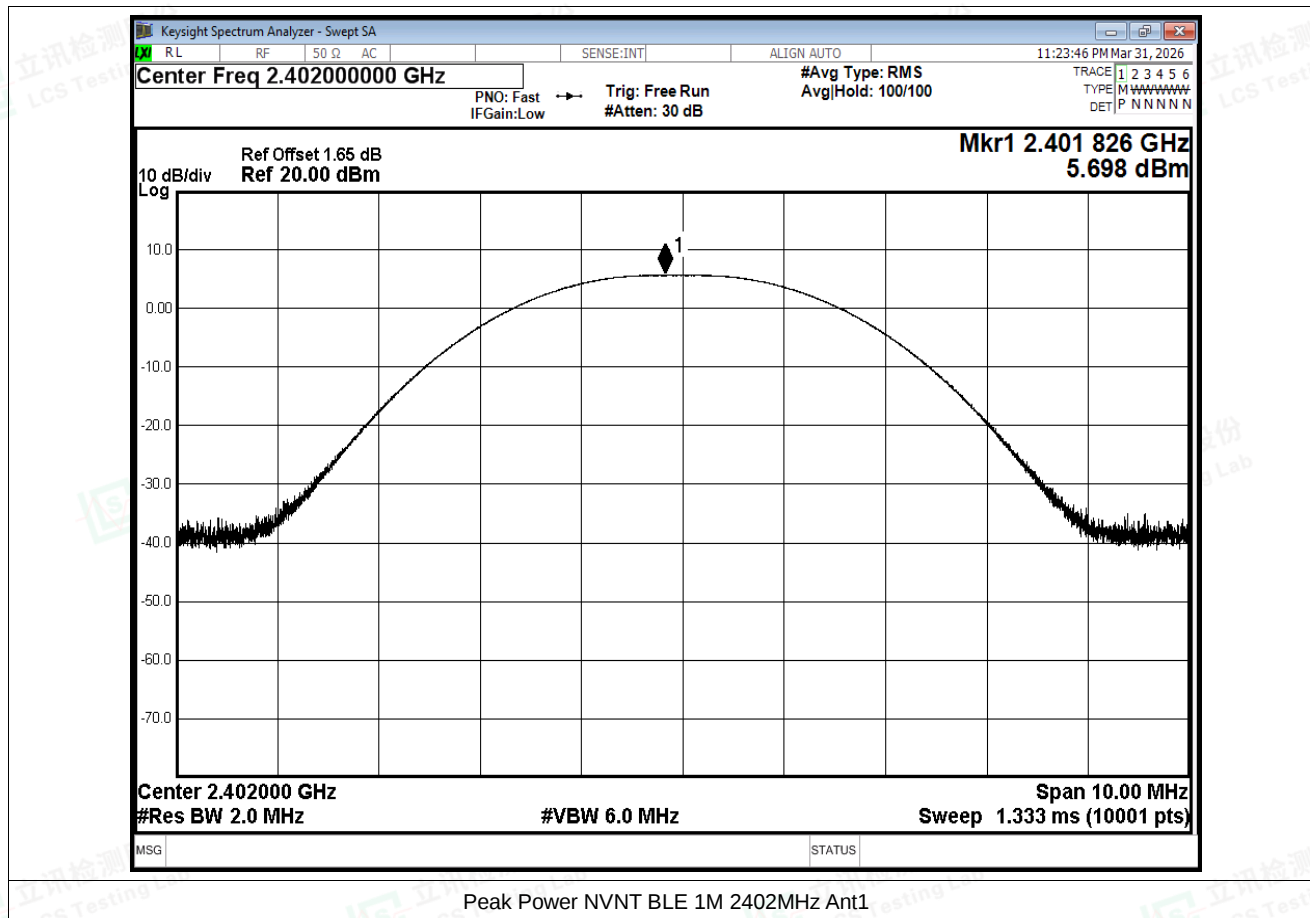


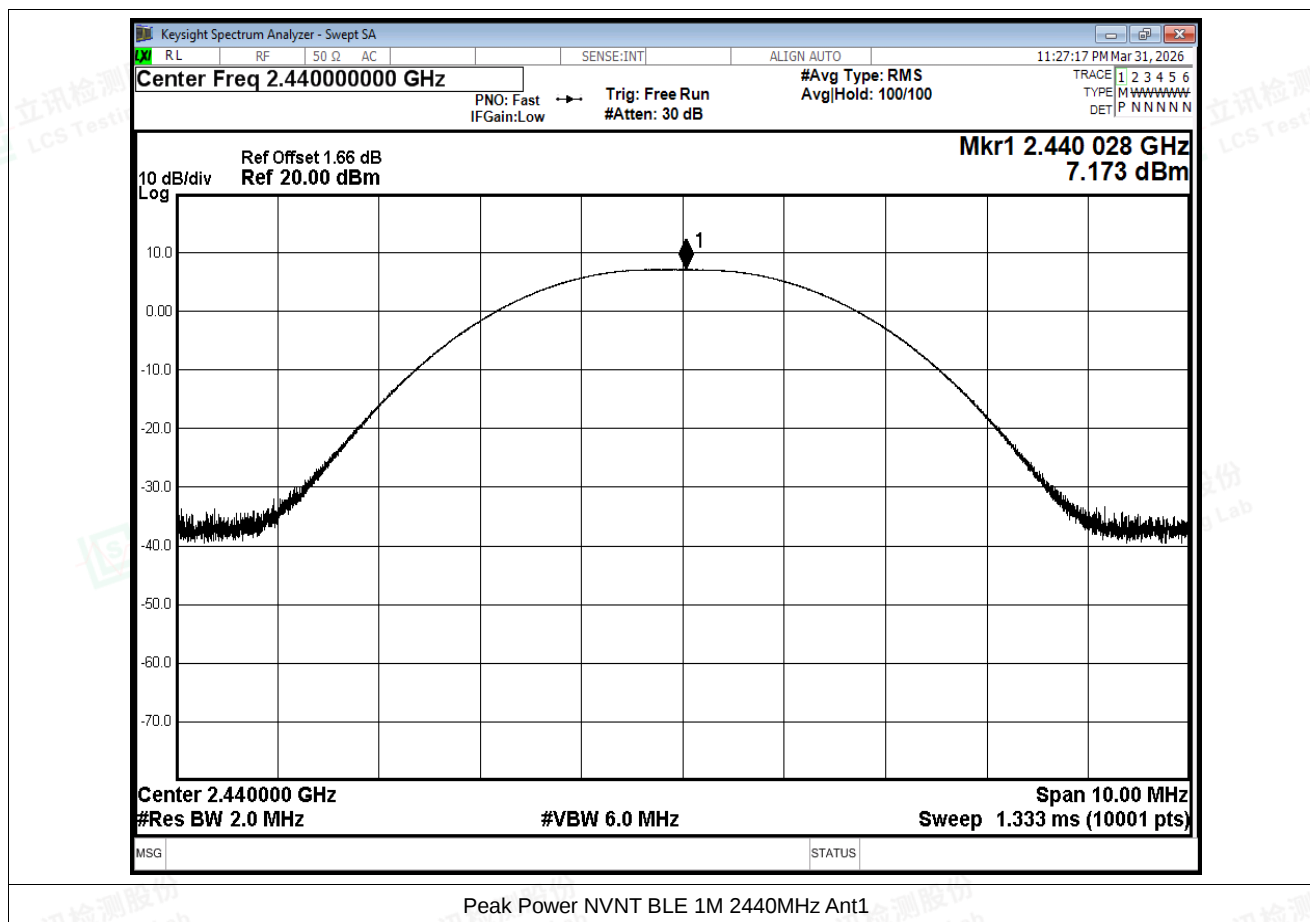


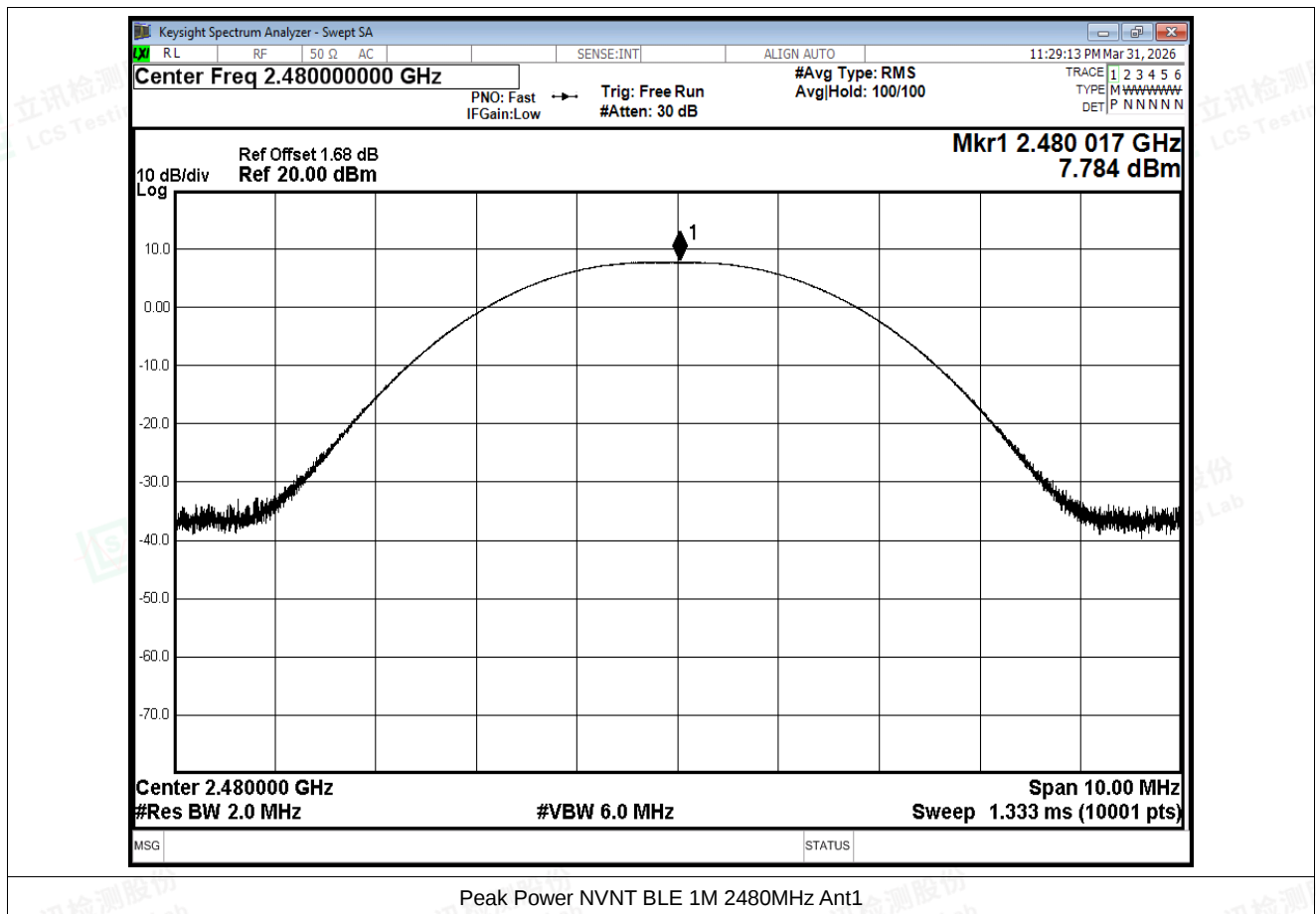
A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	5.7	30	Pass
NVNT	BLE 1M	2440	Ant1	7.17	30	Pass
NVNT	BLE 1M	2480	Ant1	7.78	30	Pass







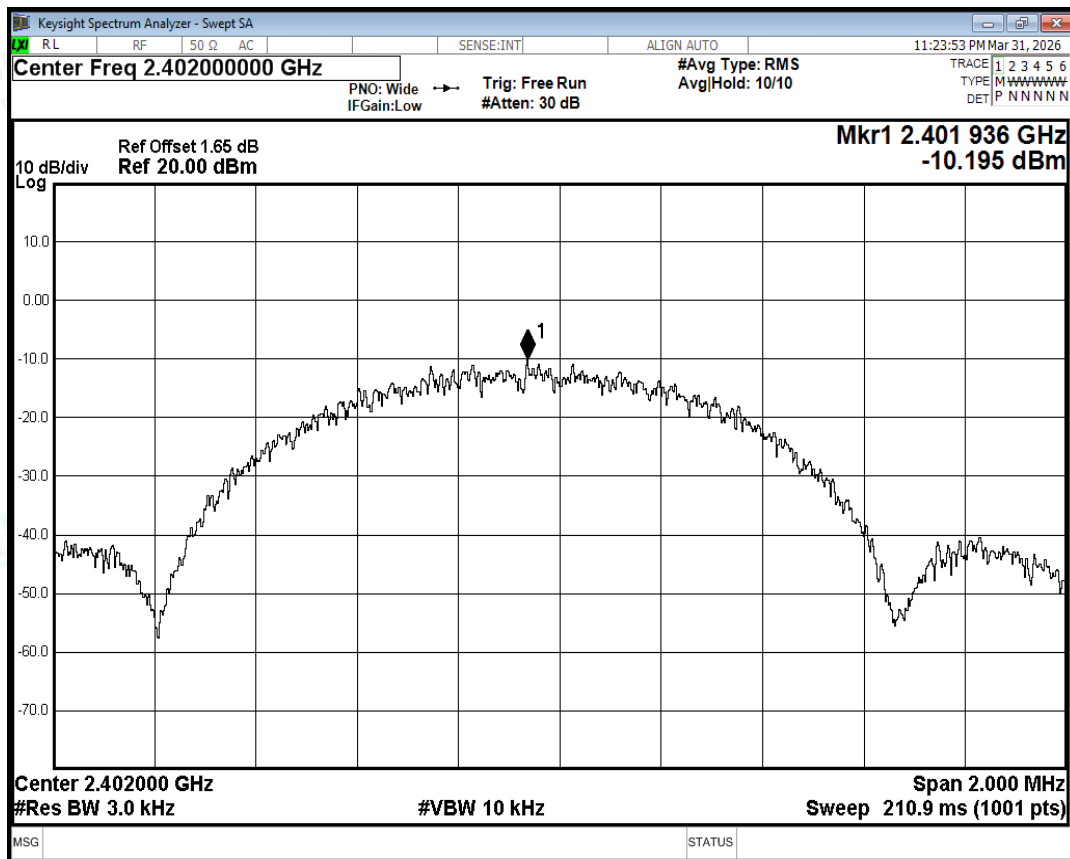




A.3 Maximum Power Spectral Density Level

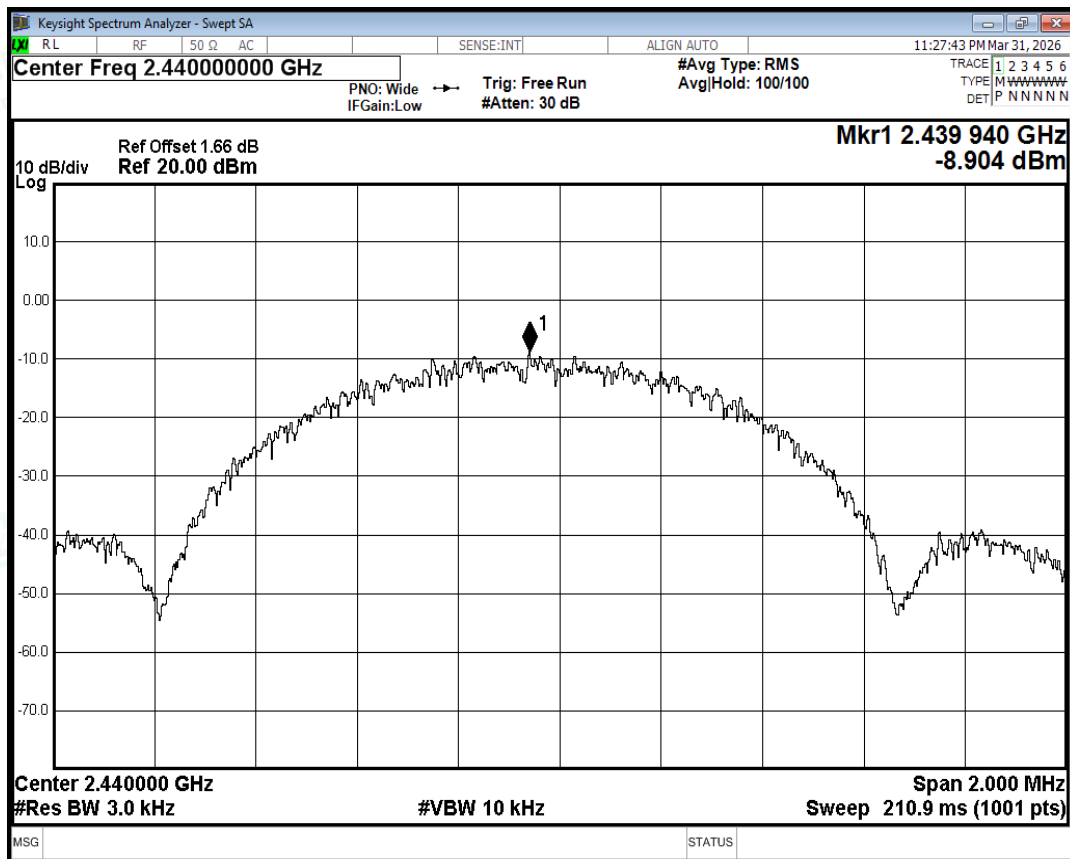
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-10.2	8	Pass
NVNT	BLE 1M	2440	Ant1	-8.9	8	Pass
NVNT	BLE 1M	2480	Ant1	-8.31	8	Pass

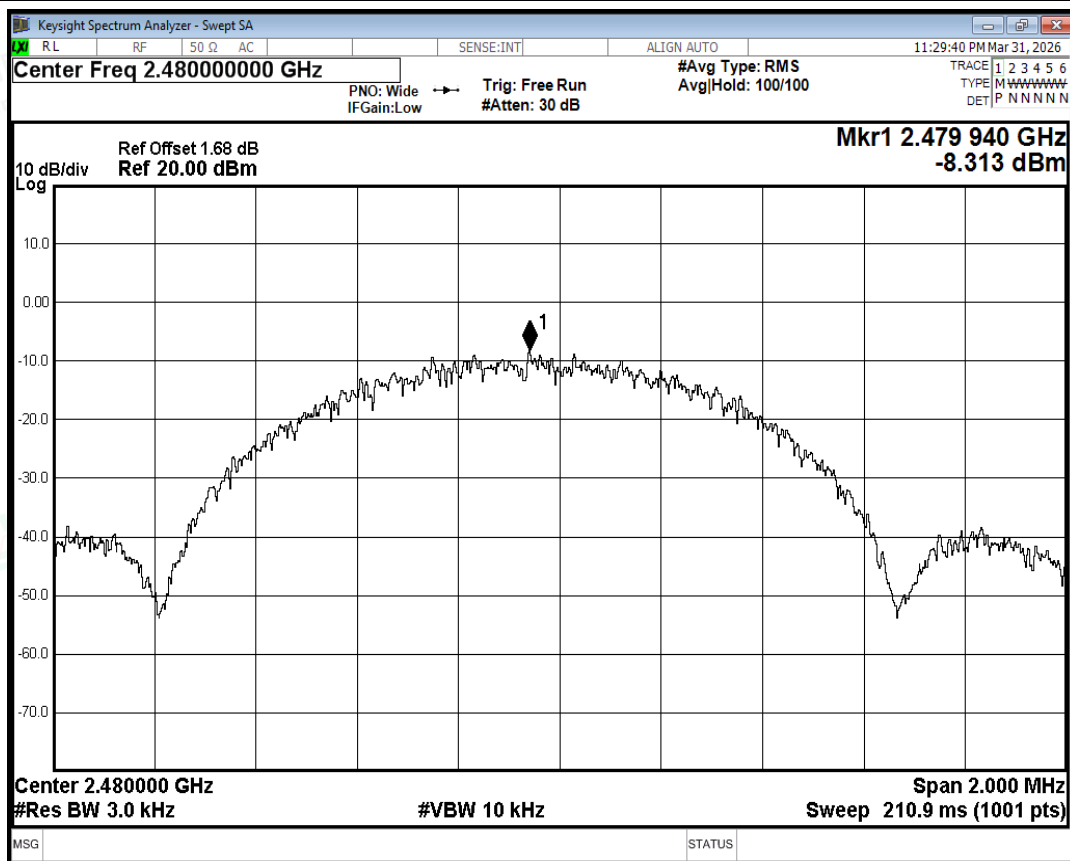




PSD NVNT BLE 1M 2402MHz Ant1







PSD NVNT BLE 1M 2480MHz Ant1

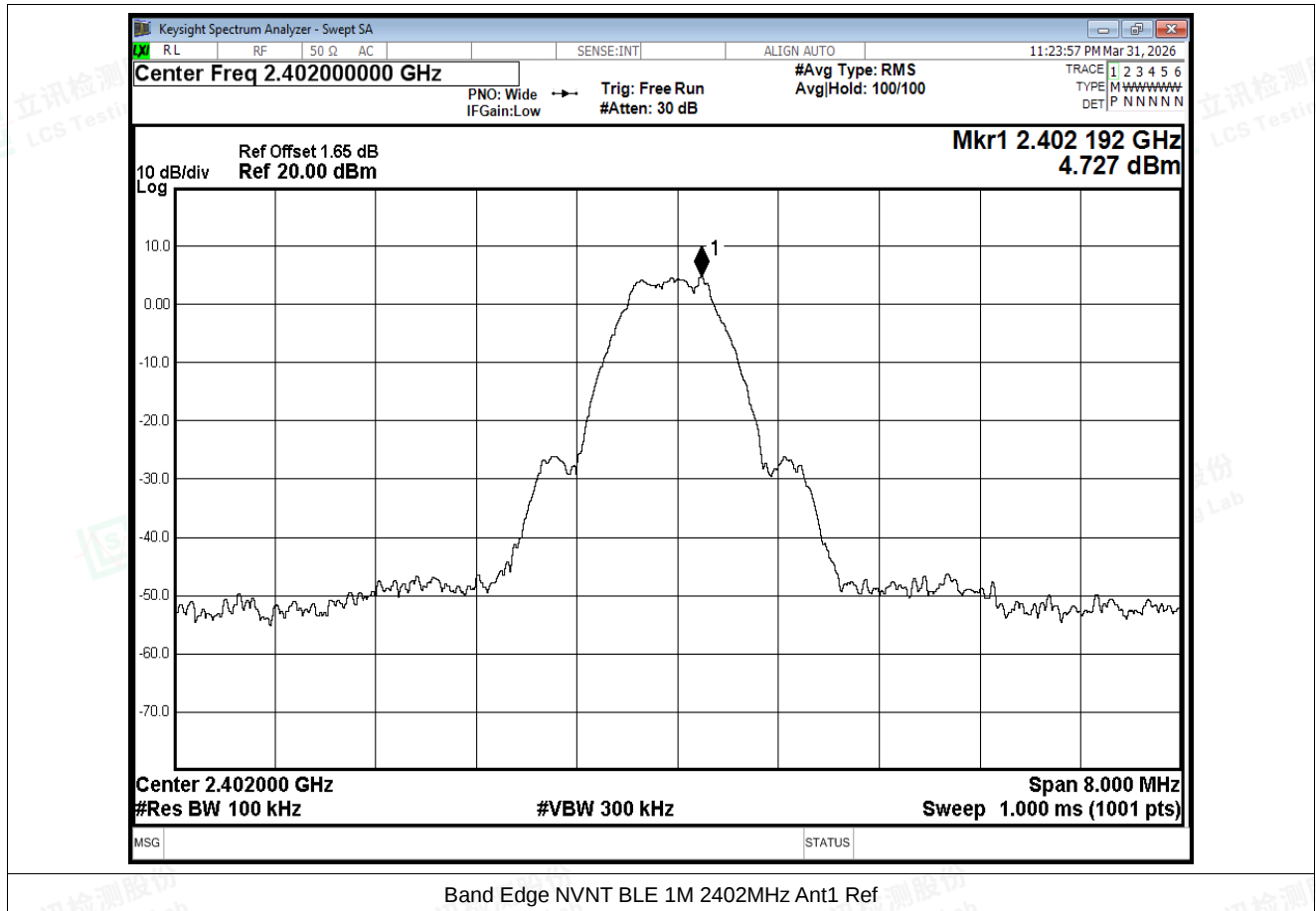


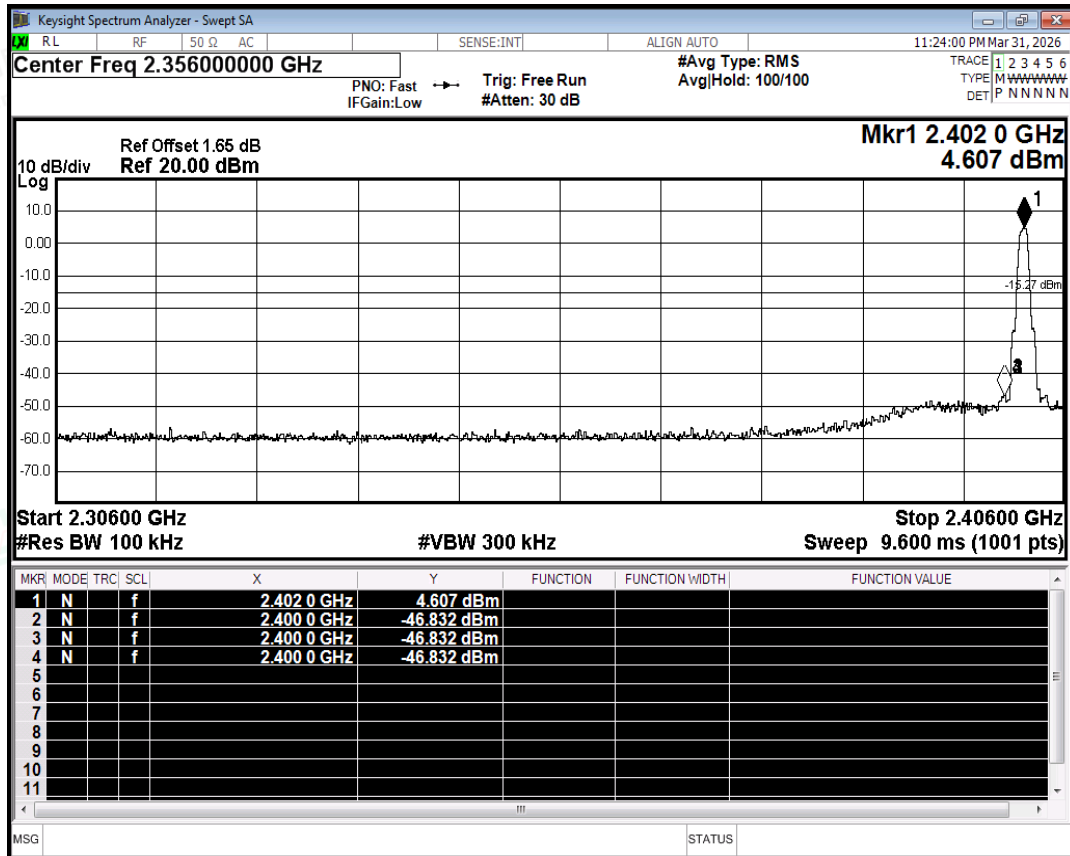


A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-51.56	-20	Pass
NVNT	BLE 1M	2480	Ant1	-53.49	-20	Pass

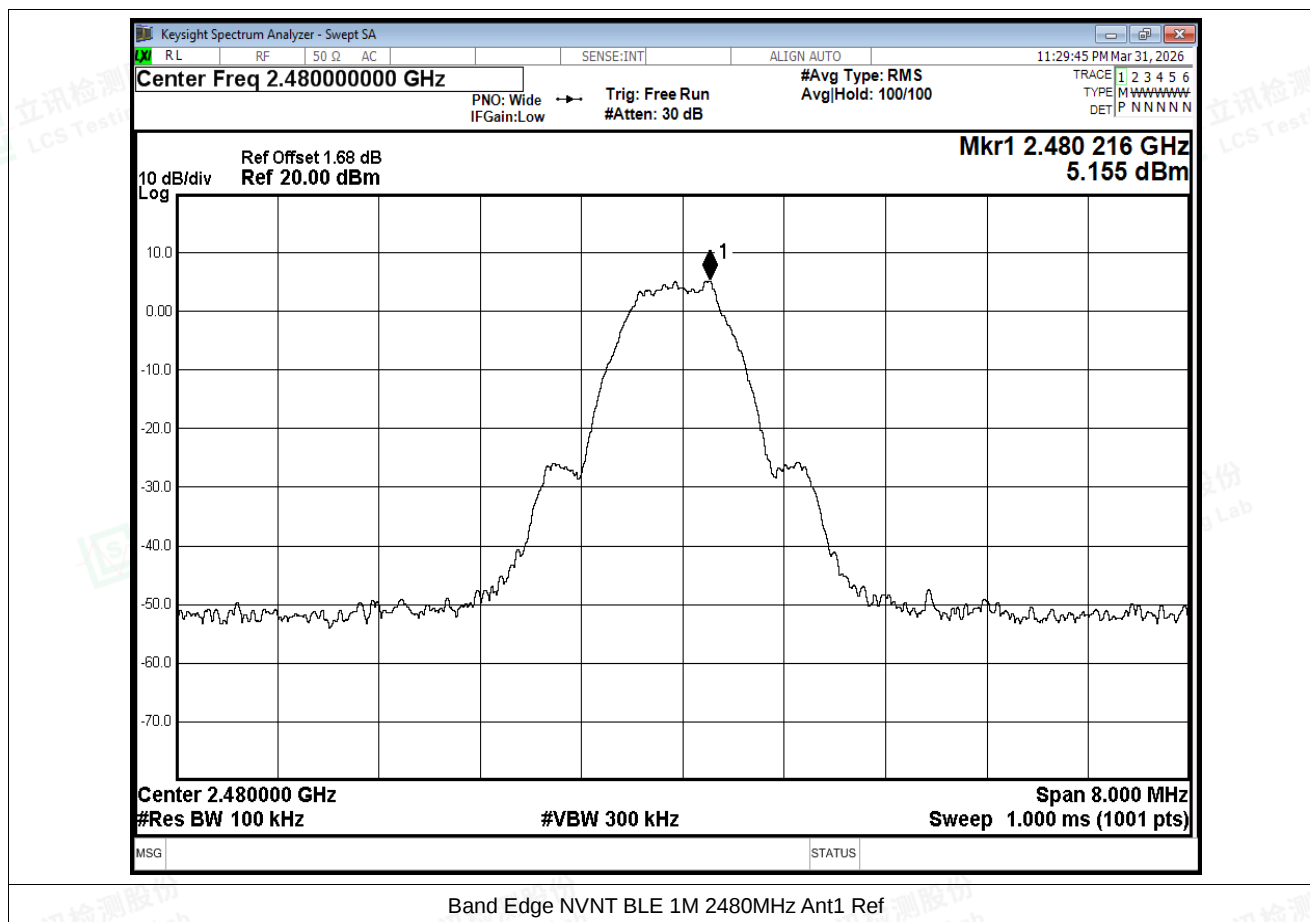


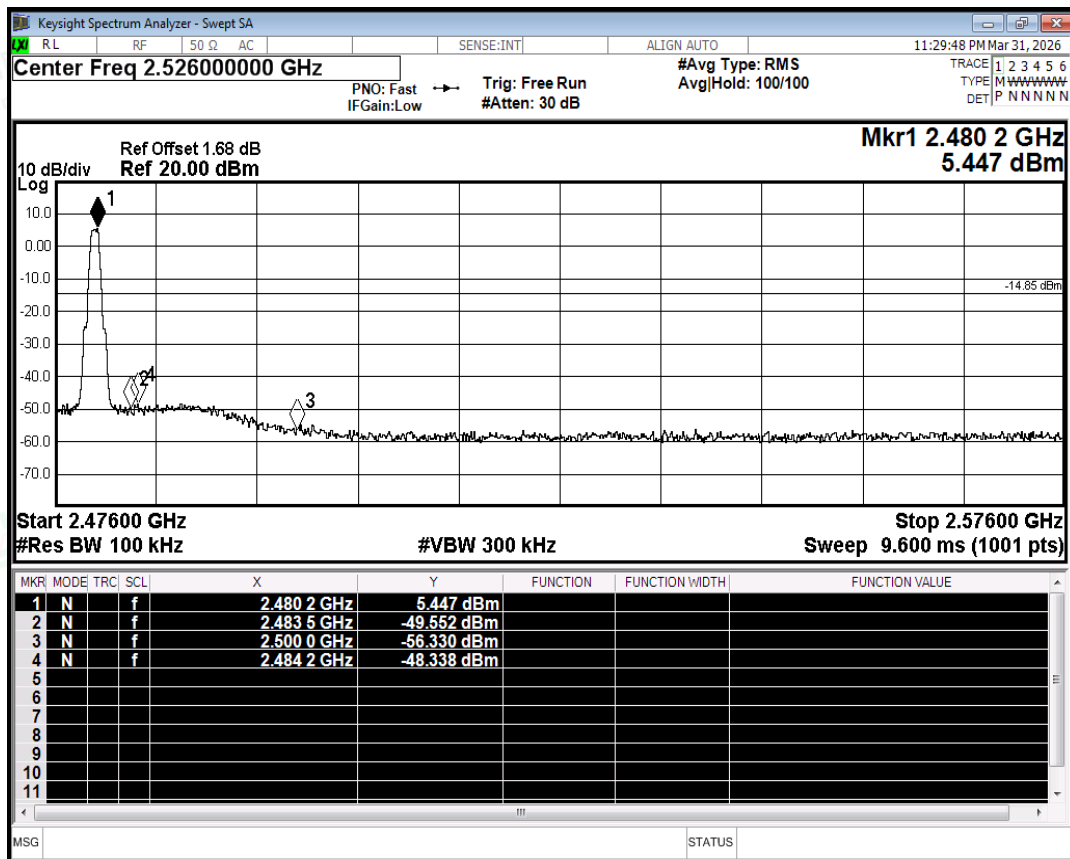




Band Edge NVNT BLE 1M 2402MHz Ant1 Emission







Band Edge NVNT BLE 1M 2480MHz Ant1 Emission

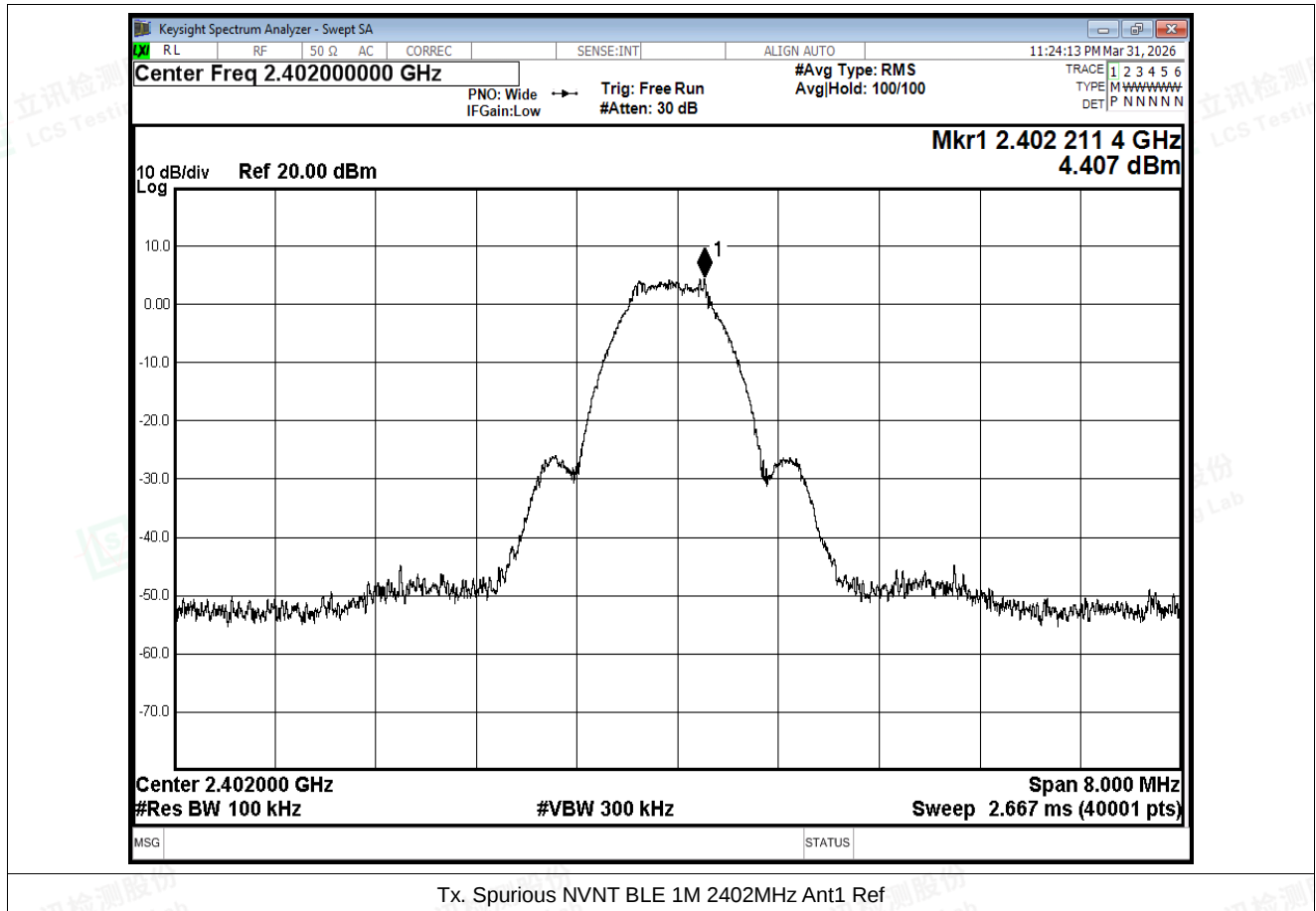


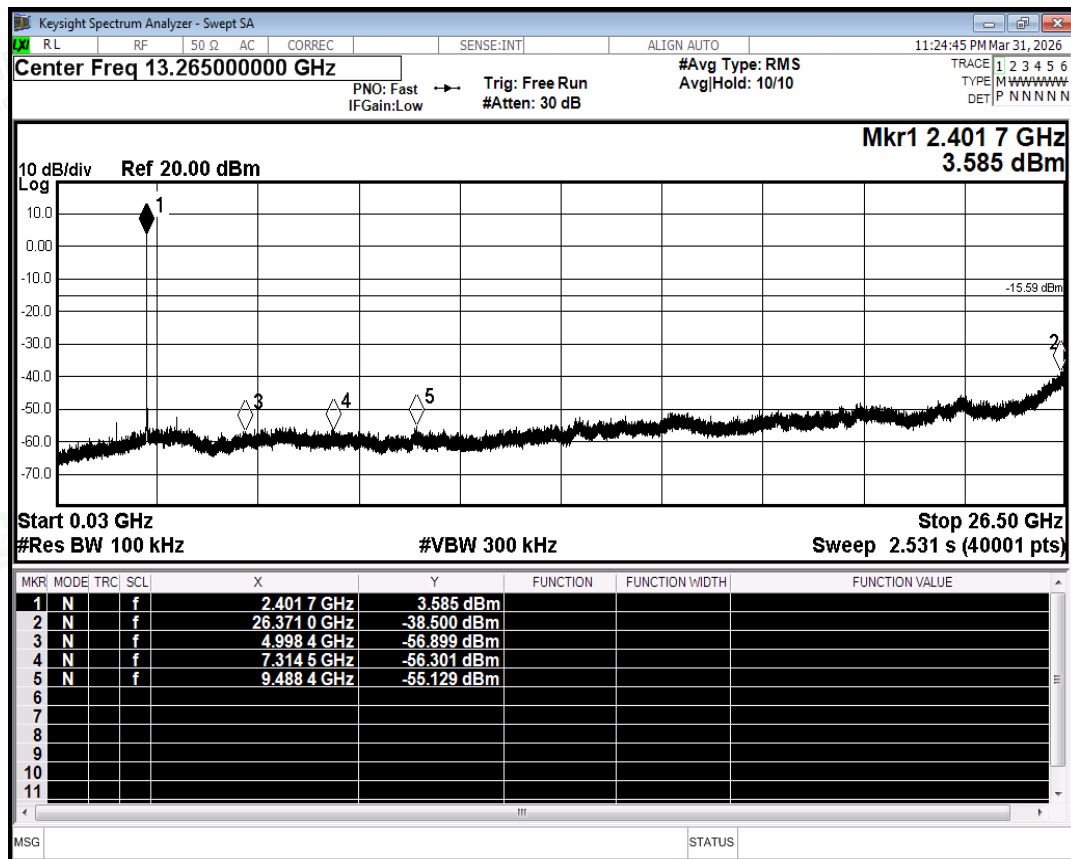


A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-42.91	-20	Pass
NVNT	BLE 1M	2440	Ant1	-43.5	-20	Pass
NVNT	BLE 1M	2480	Ant1	-44.52	-20	Pass

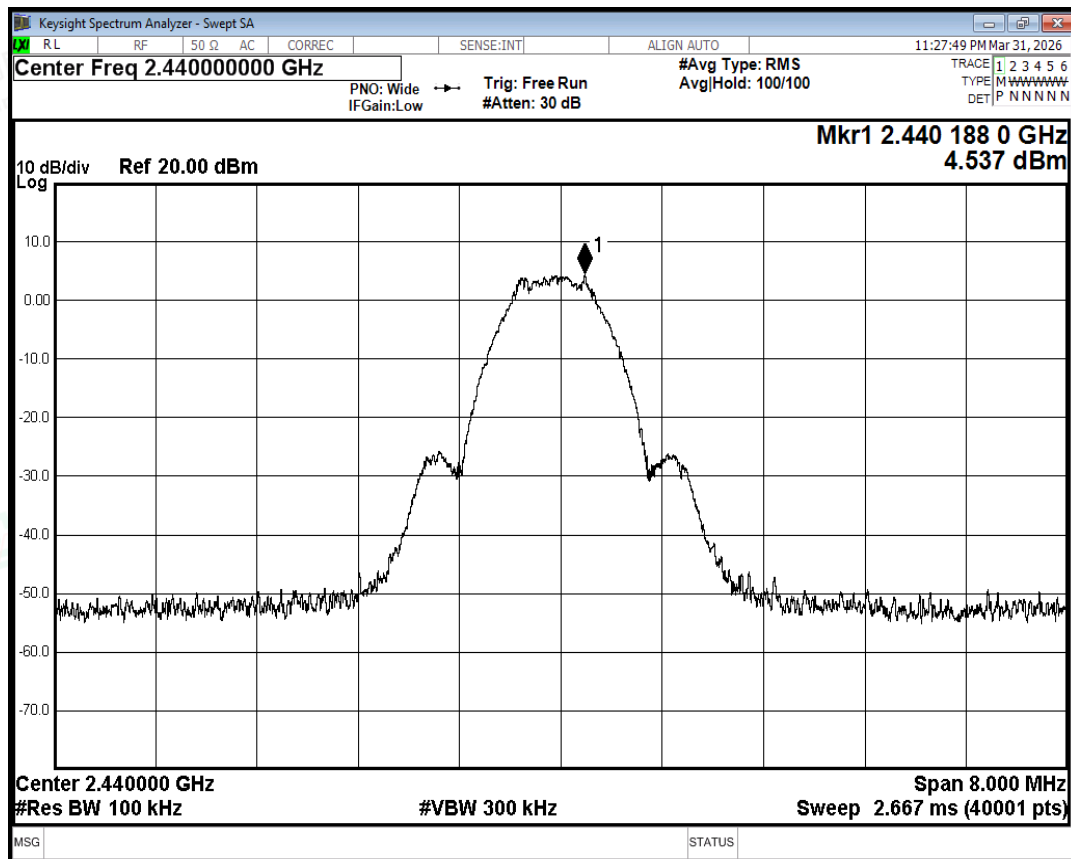






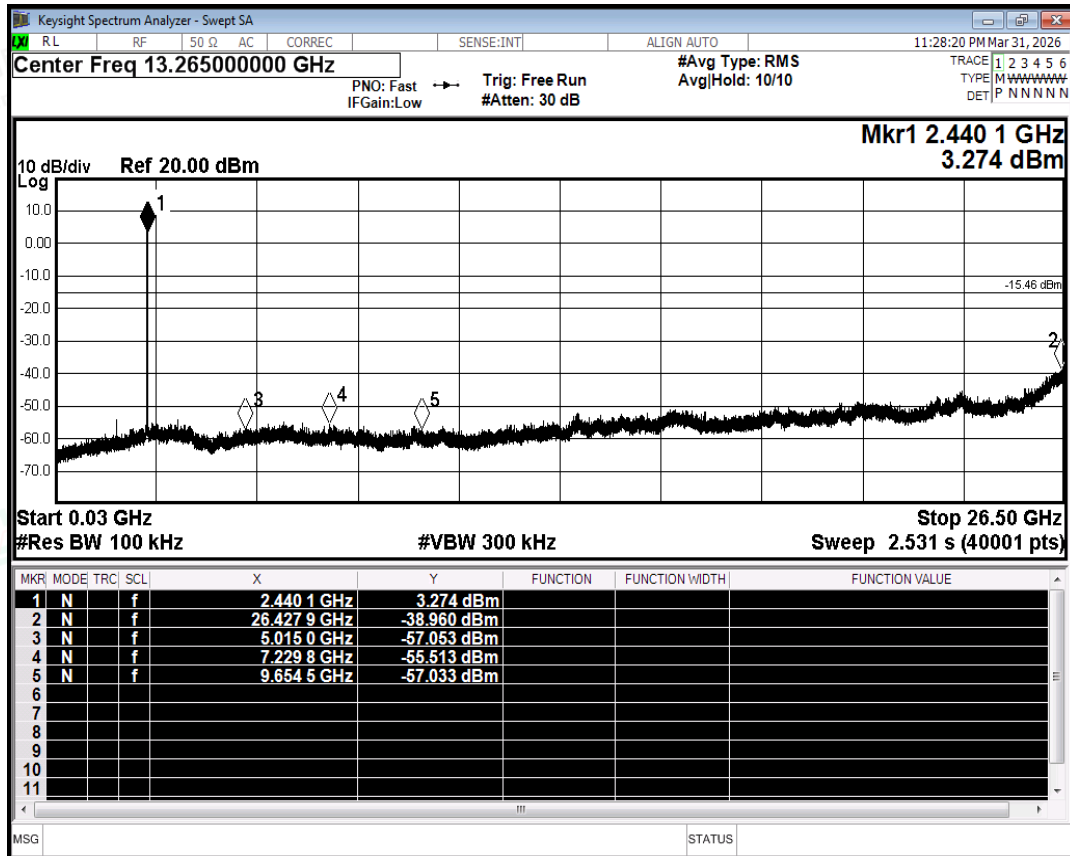
Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission





Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref





Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission

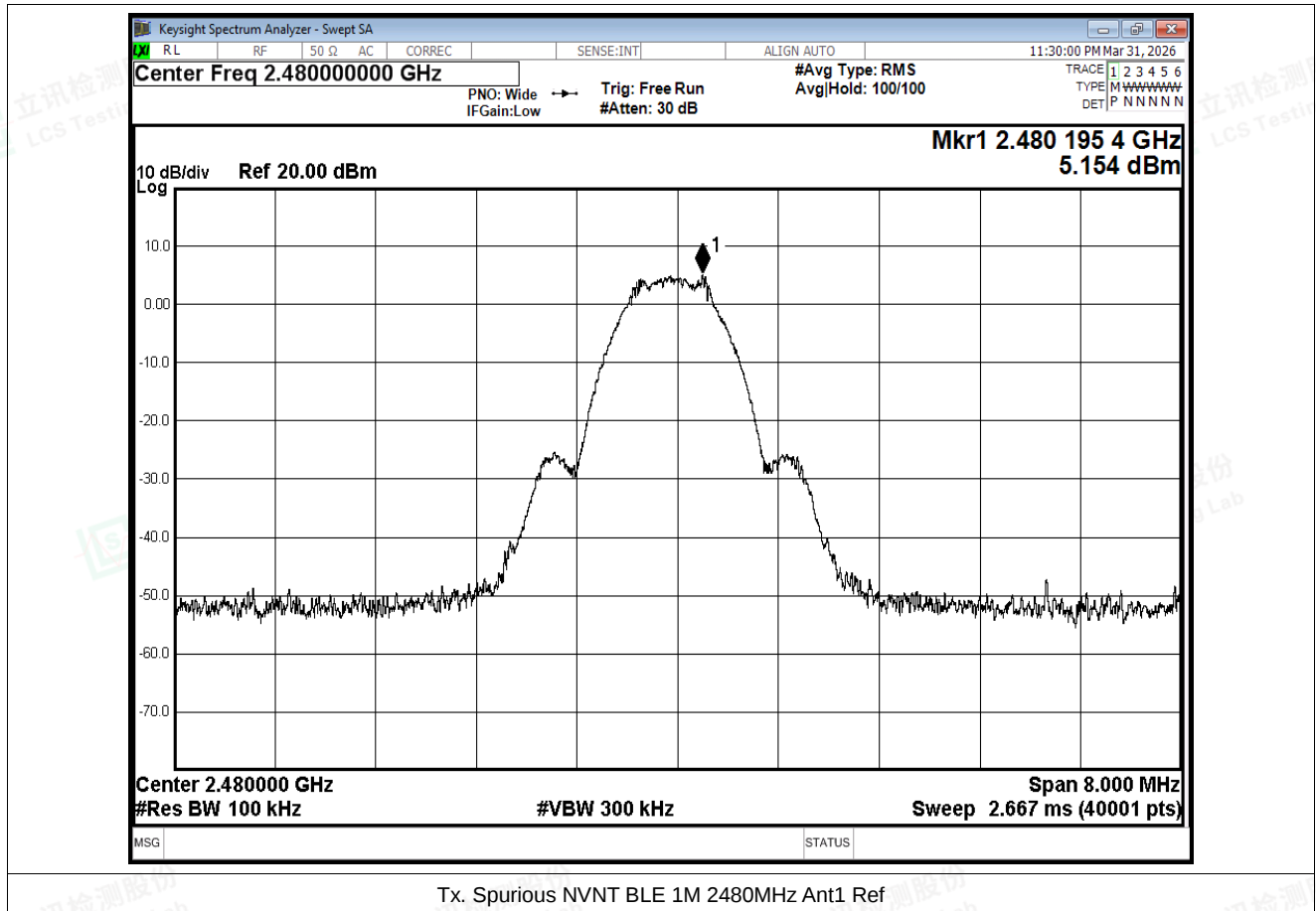


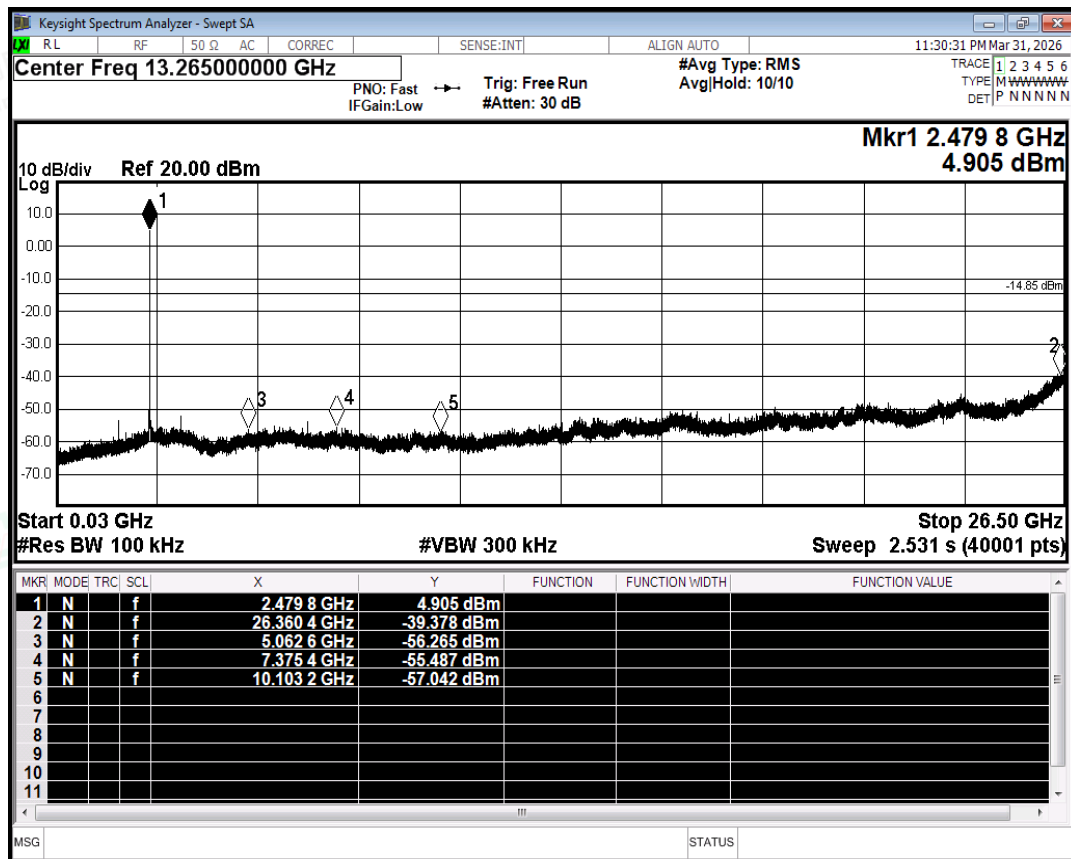
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission

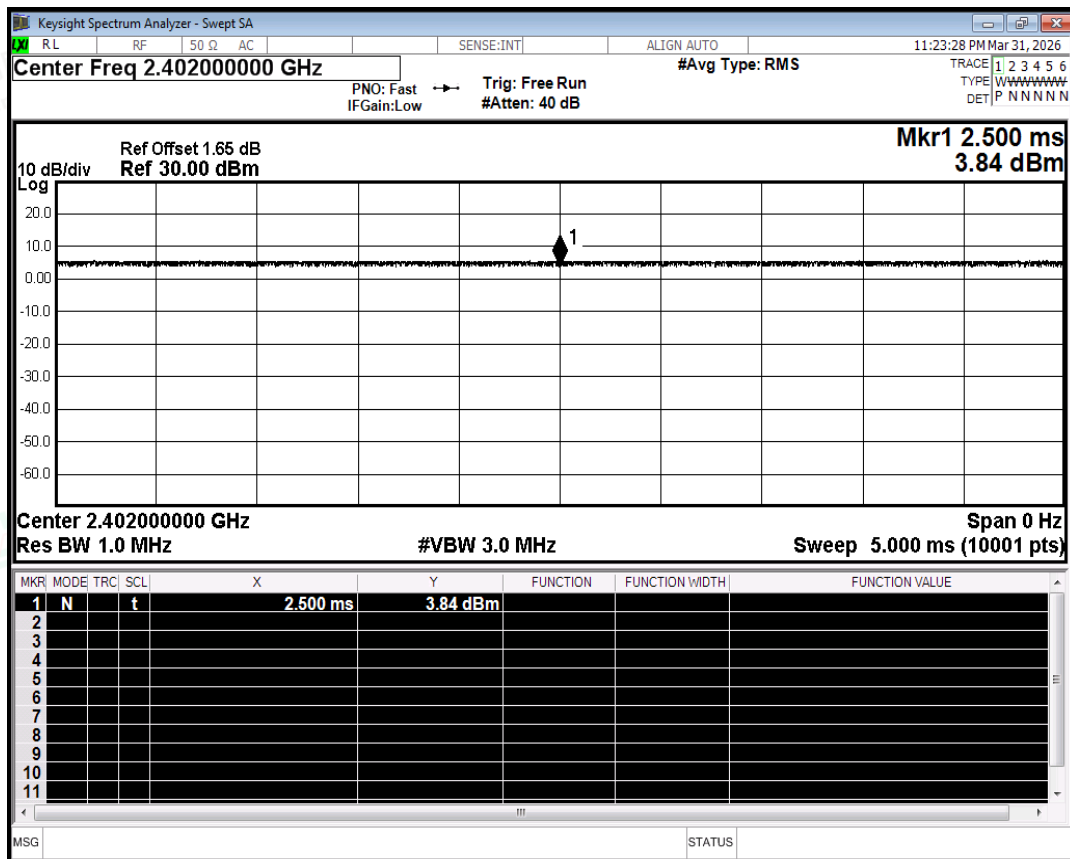




A.6 Duty Cycle

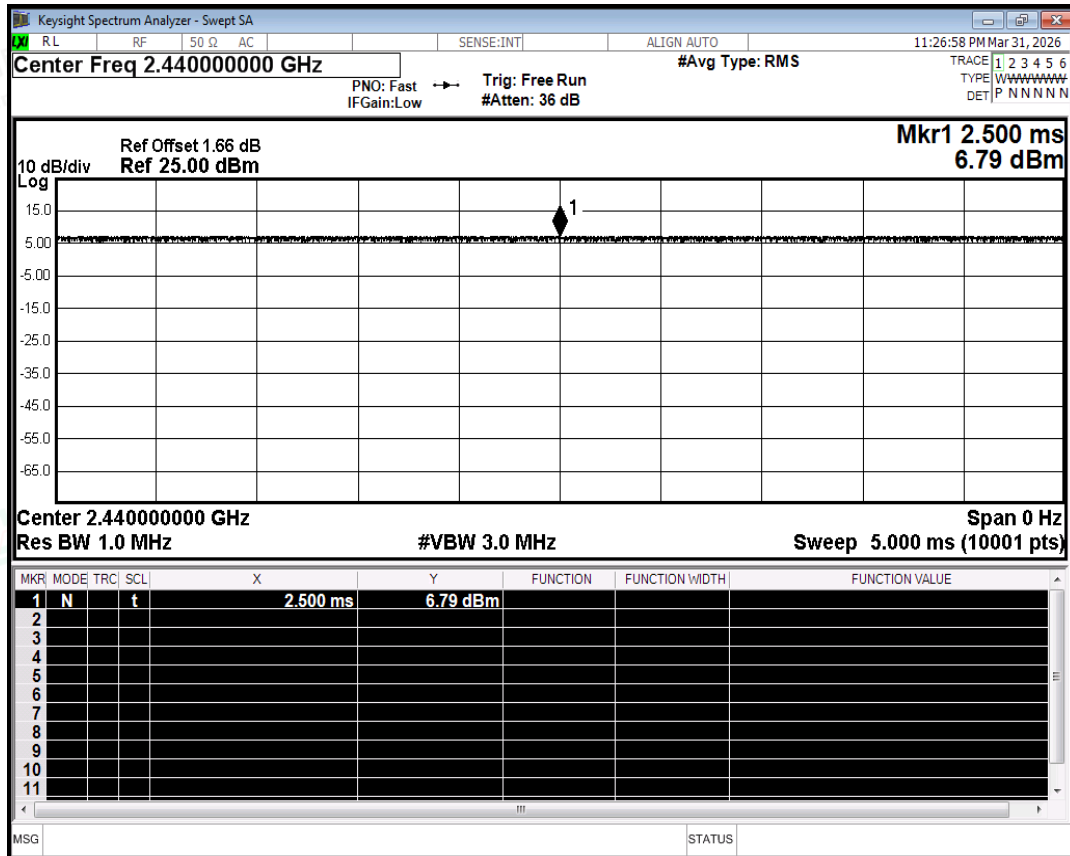
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	100	0	0
NVNT	BLE 1M	2440	Ant1	100	0	0
NVNT	BLE 1M	2480	Ant1	100	0	0





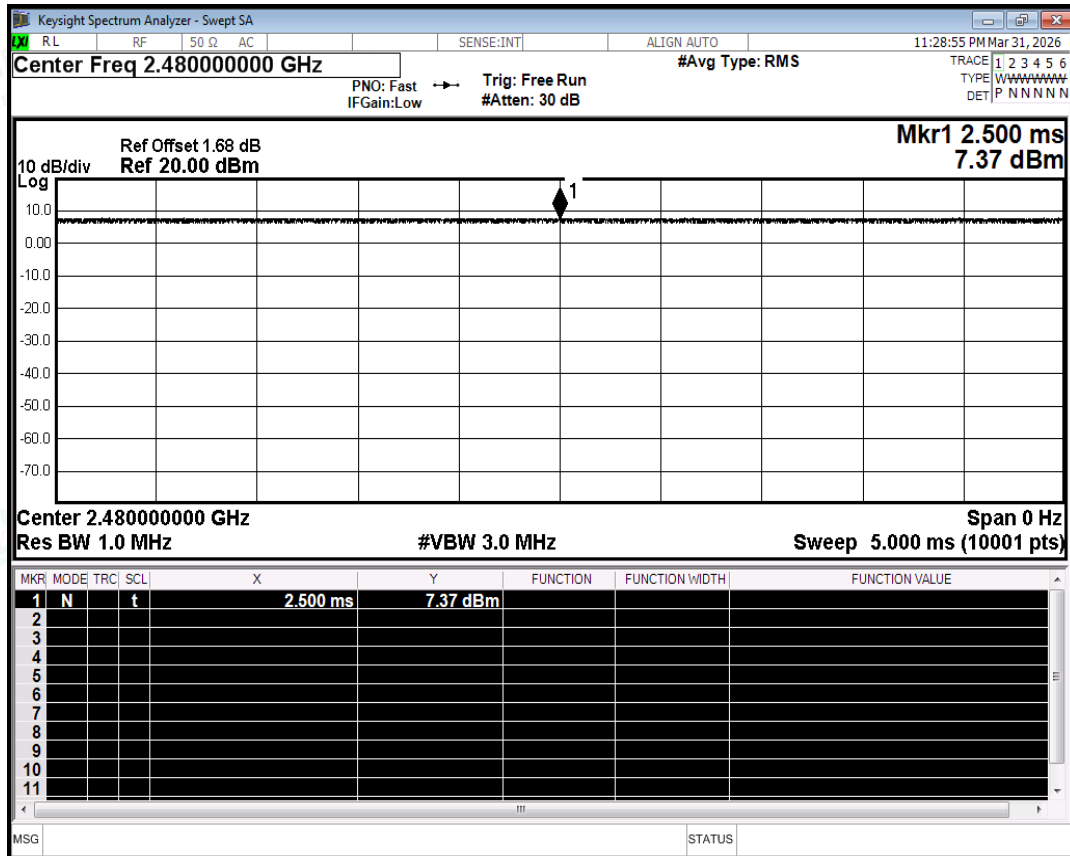
Duty Cycle NVNT BLE 1M 2402MHz Ant1





Duty Cycle NVNT BLE 1M 2440MHz Ant1





Duty Cycle NVNT BLE 1M 2480MHz Ant1

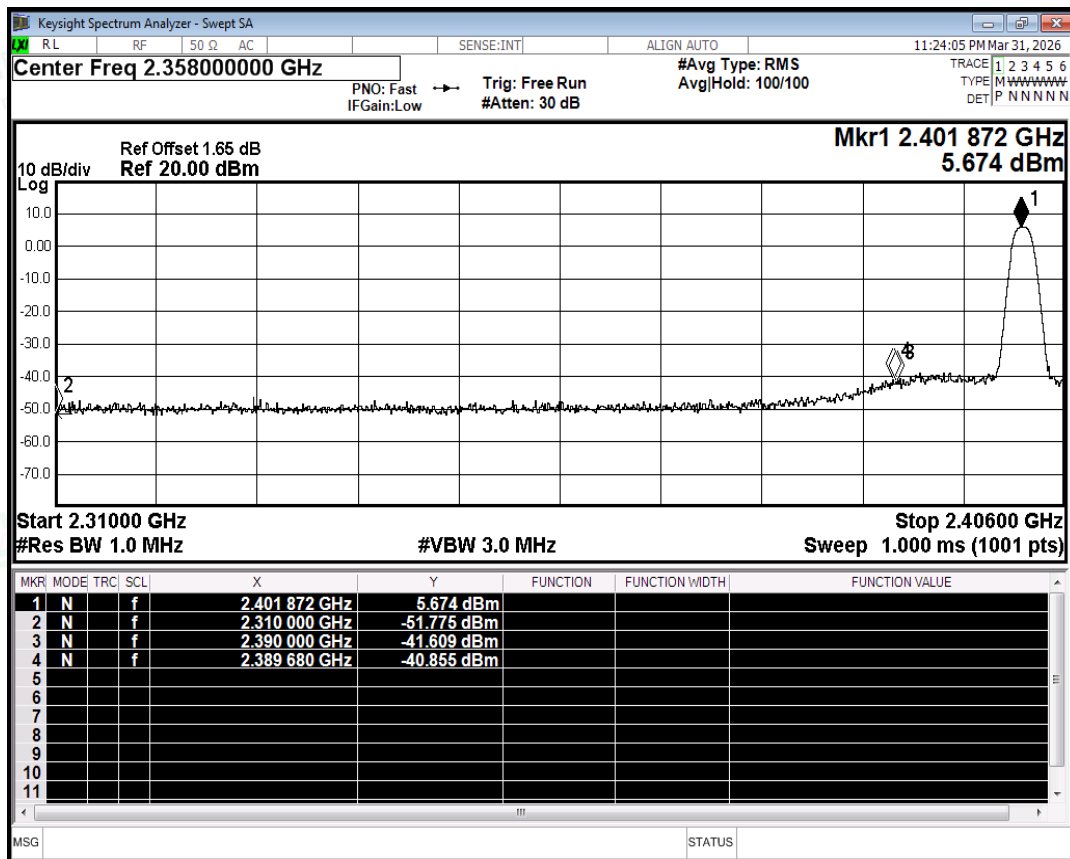




A.7 Restrict Band

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	-51.77	2	45.49	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-57.01	2	40.25	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2389.68	-40.85	2	56.41	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2389.968	-49.12	2	48.14	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-42.4	2	54.86	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-48.81	2	48.45	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-41.83	2	55.43	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-47.15	2	50.11	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2489.44	-37.76	2	59.5	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2488.84	-46.92	2	50.34	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-47.82	2	49.44	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-54.22	2	43.04	Average	54	Pass





Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak

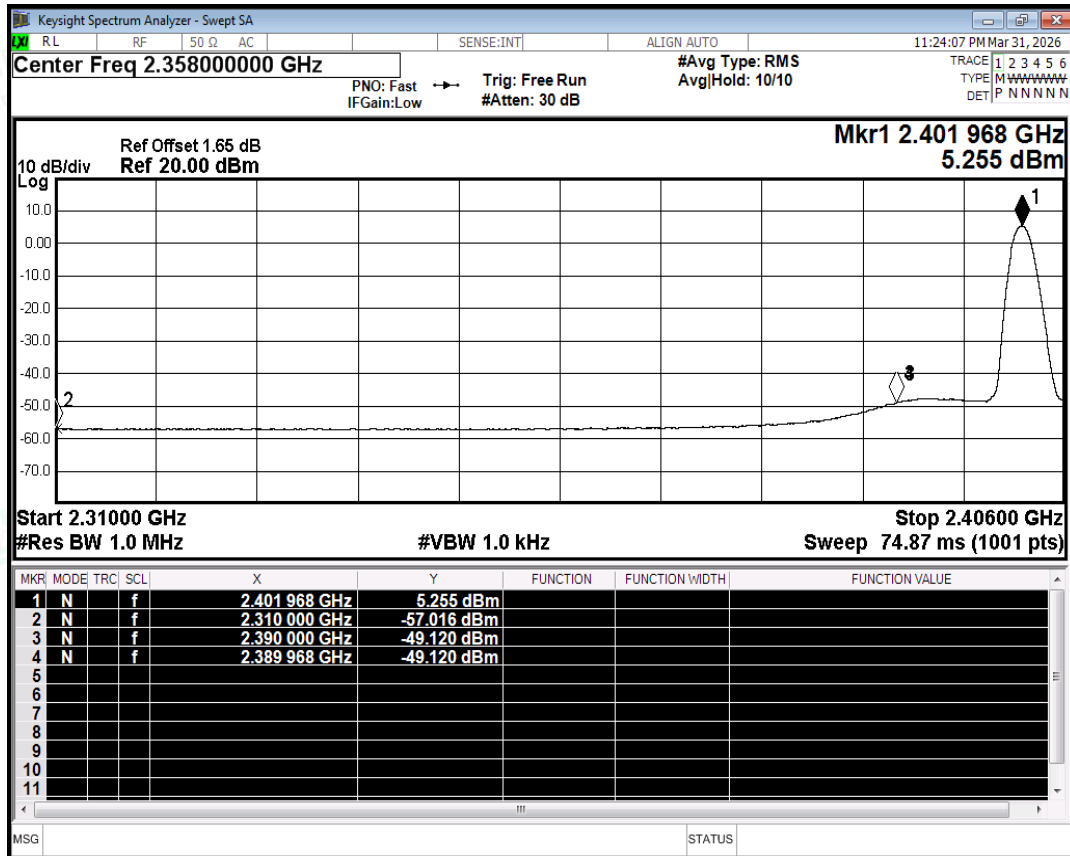


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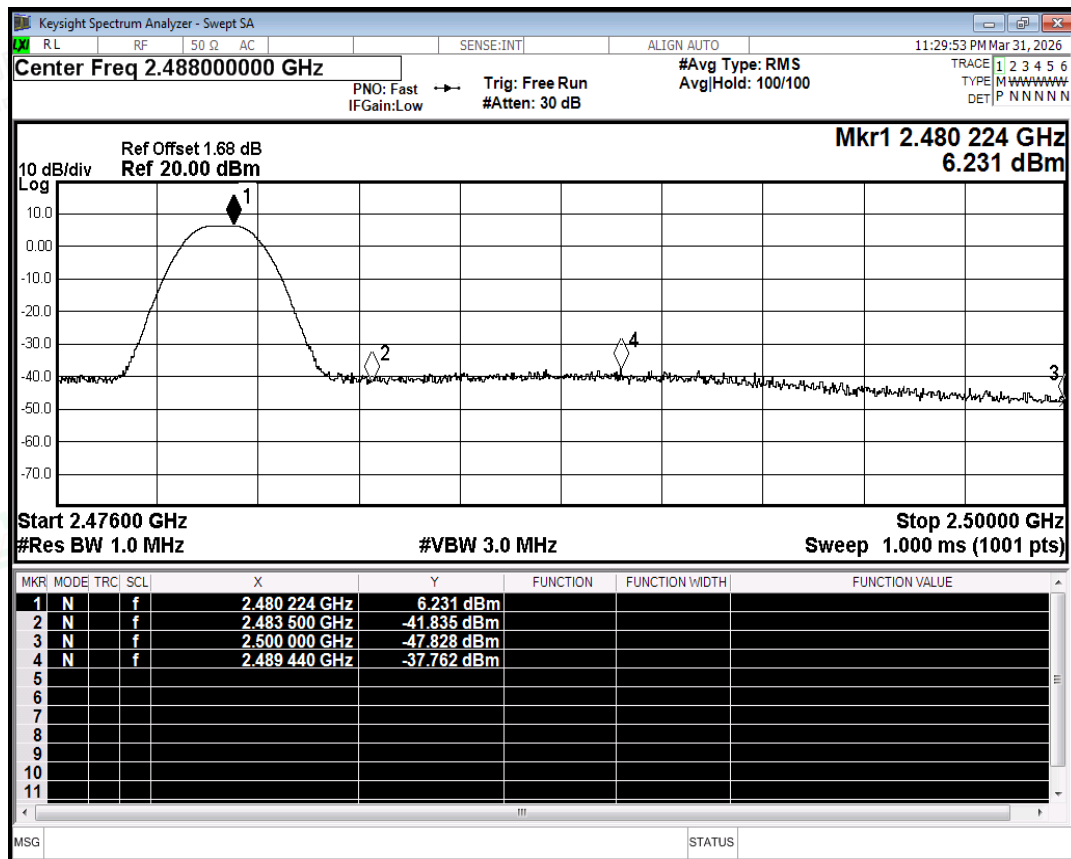
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Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



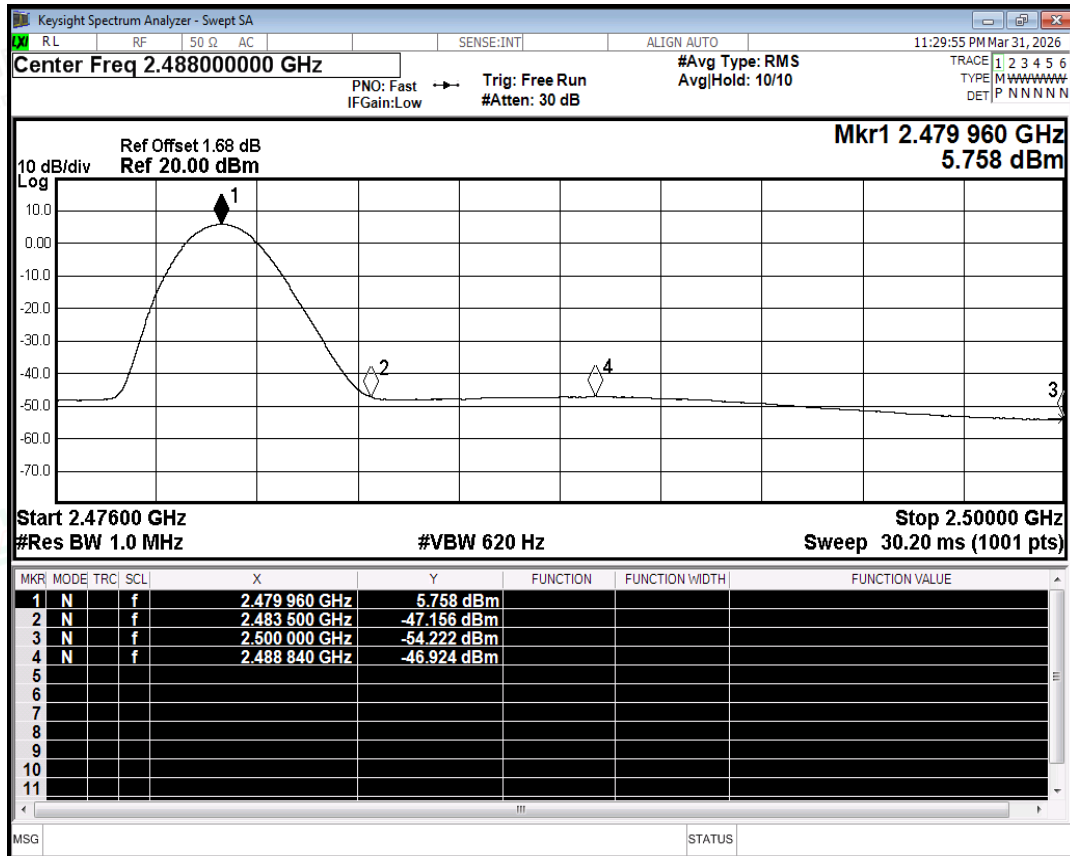
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



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Restrict Band NVNT BLE 1M 2480MHz Ant1 Average

