



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: H1 Wristband Controller

Test Model: HYWW001

Environmental Conditions

Temperature:	23.6°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun



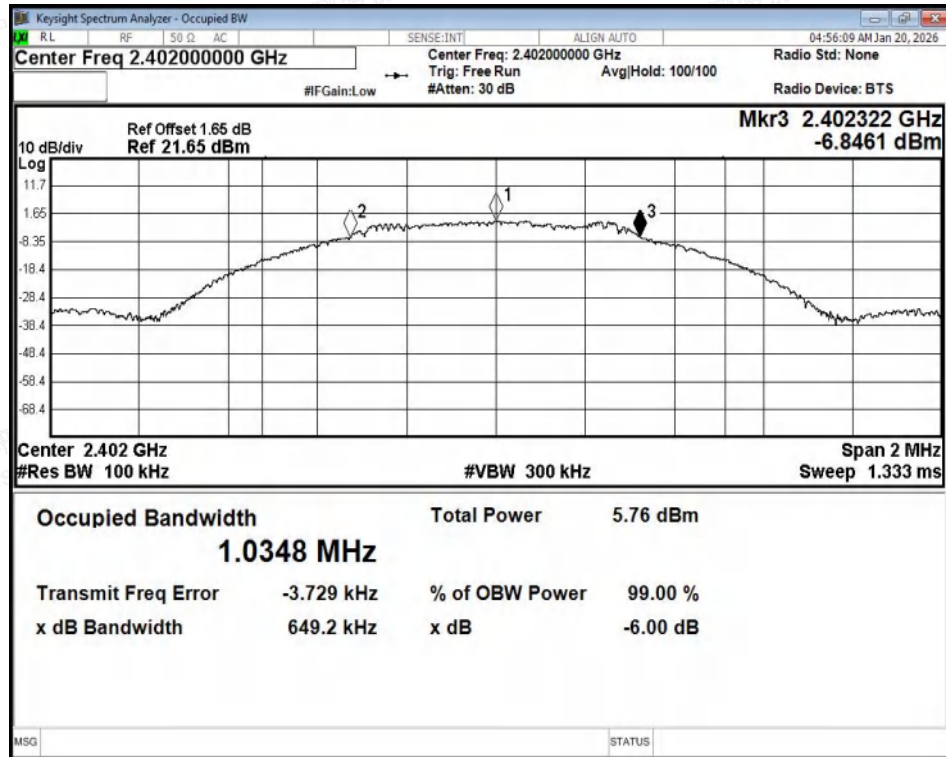
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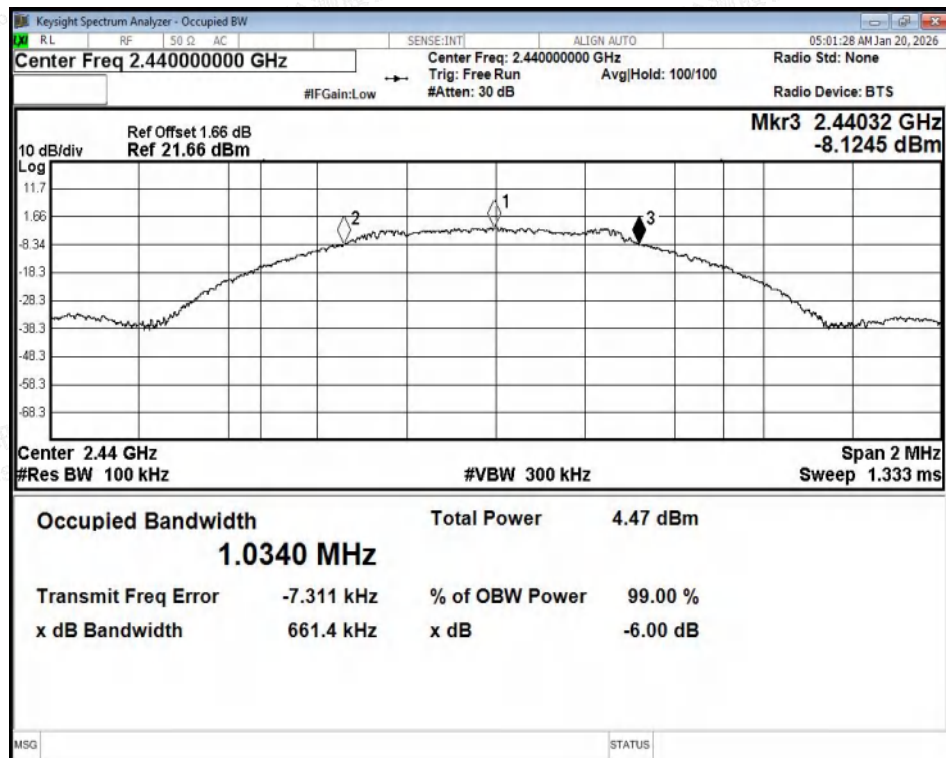
A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.6492	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.6614	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.6582	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.333	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.339	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.317	0.5	Pass



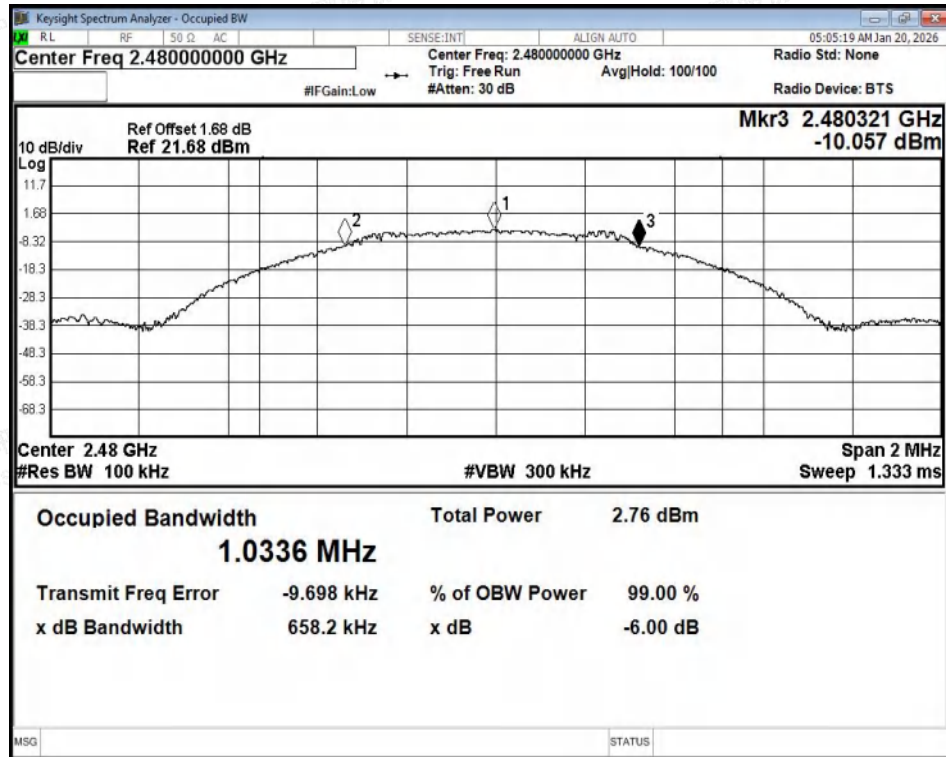


-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1

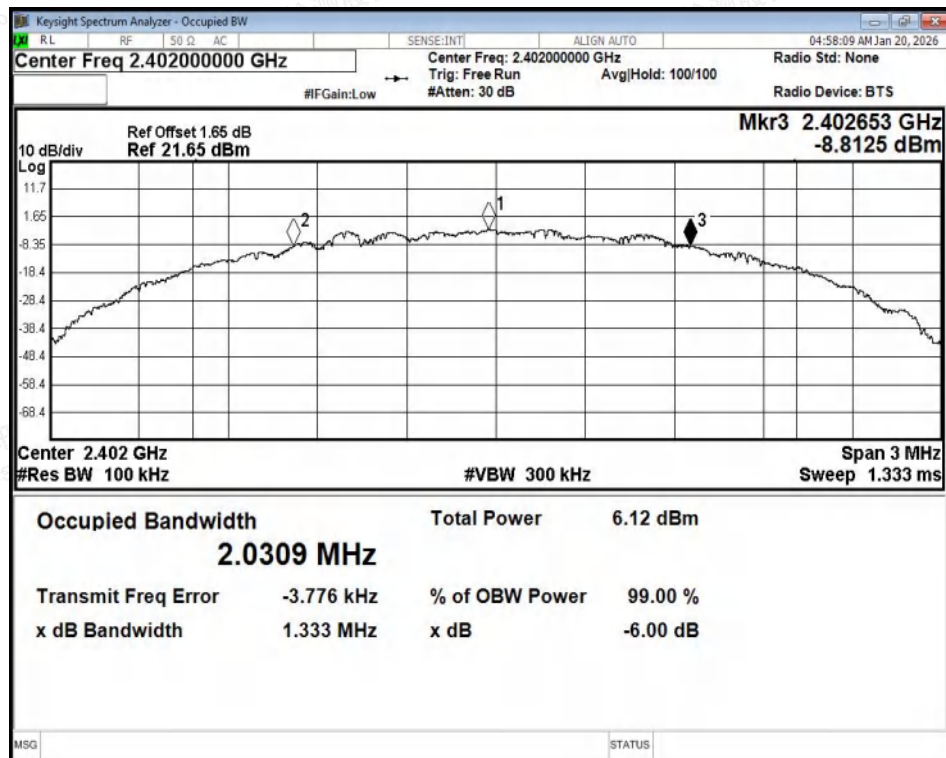


-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1





-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1

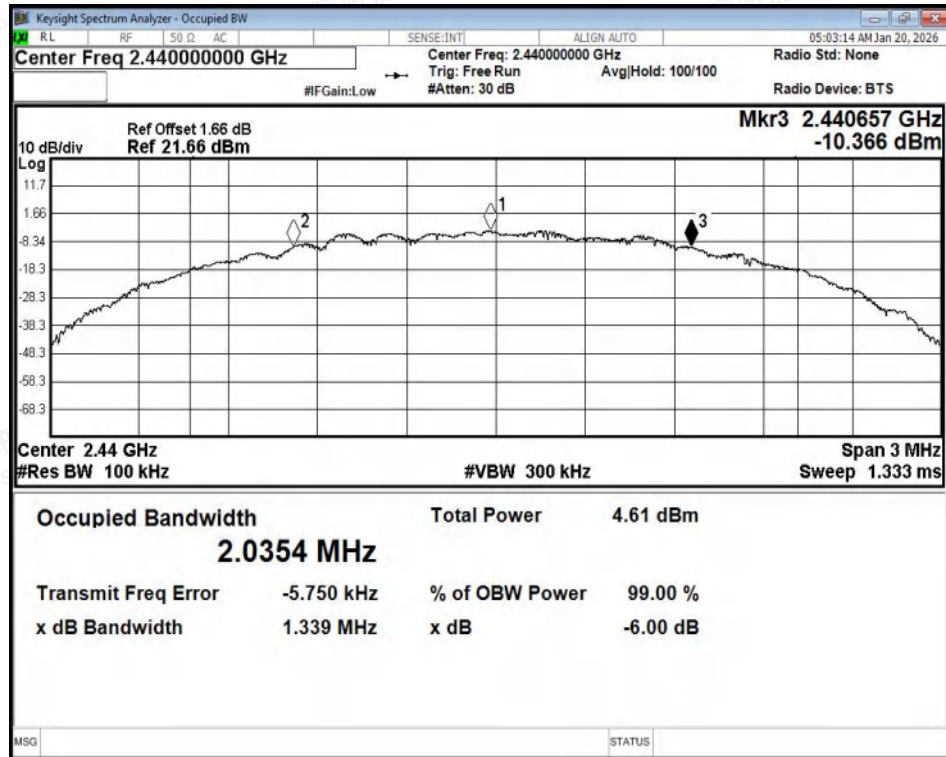


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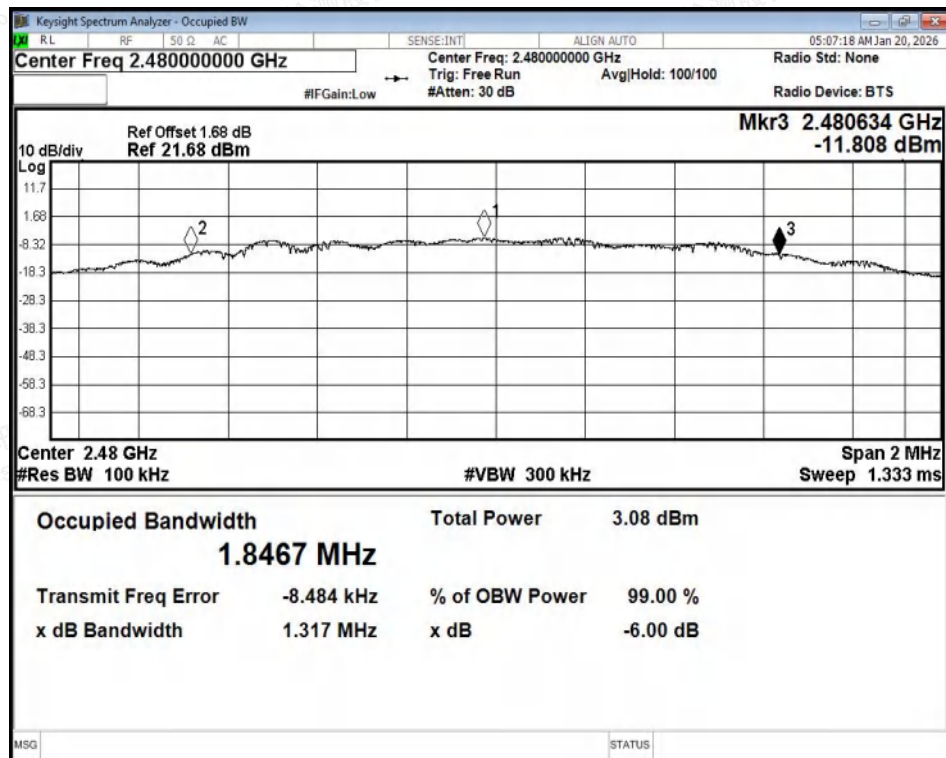
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-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1

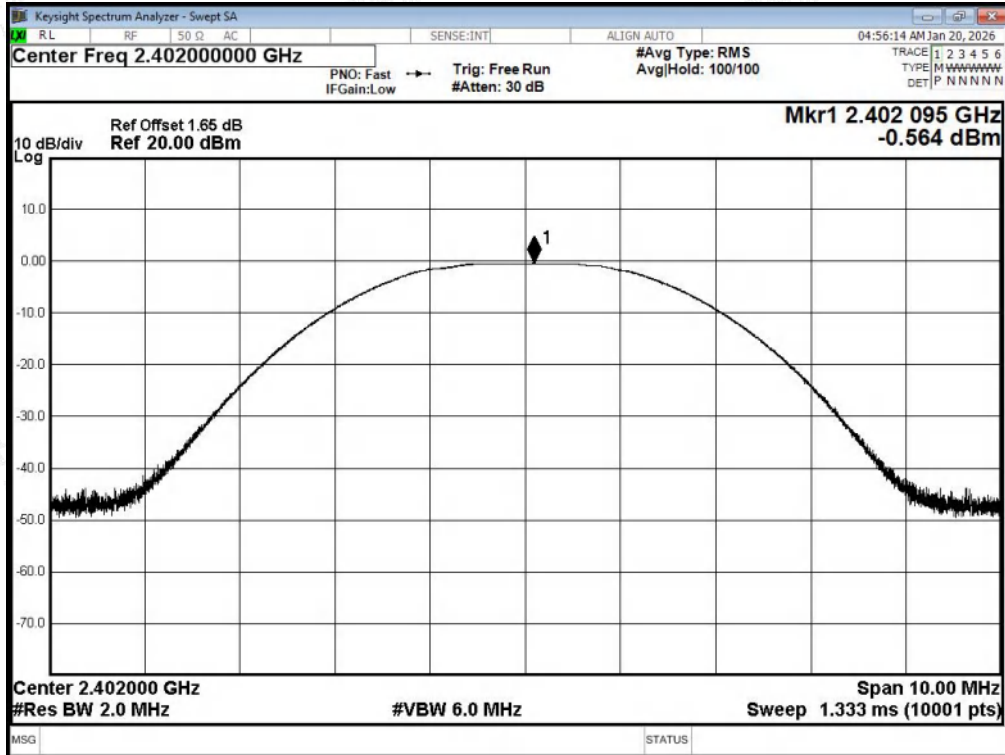




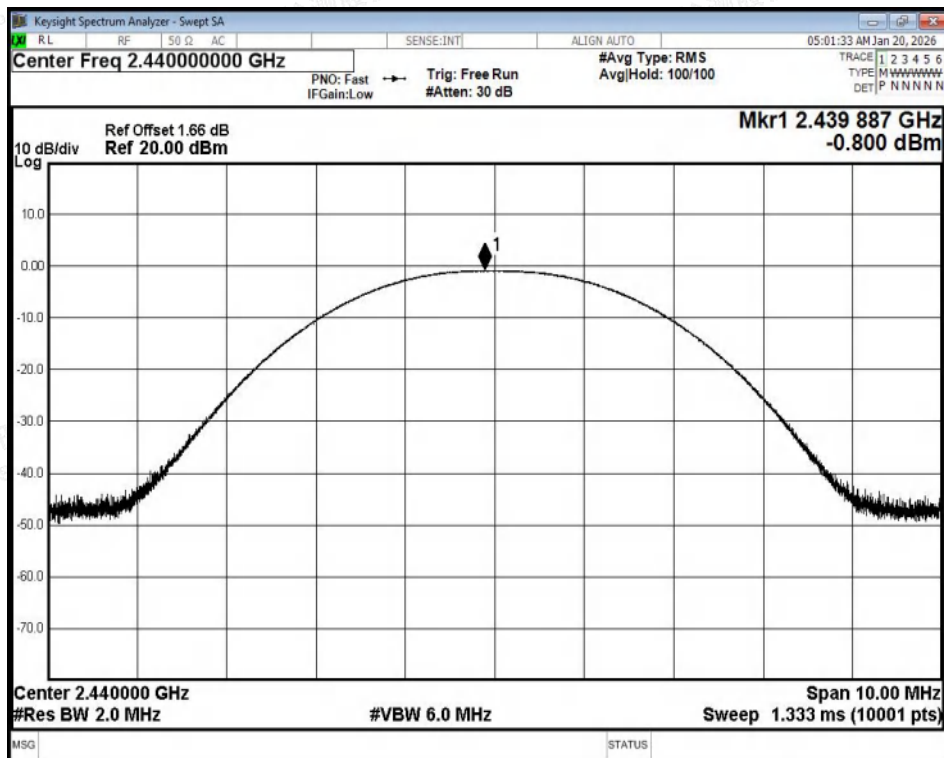
A.2 Maximum Peak Conducted Output Power and e.i.r.p.

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-0.56	30	Pass
NVNT	BLE 1M	2440	Ant1	-0.80	30	Pass
NVNT	BLE 1M	2480	Ant1	-2.50	30	Pass
NVNT	BLE 2M	2402	Ant1	-0.50	30	Pass
NVNT	BLE 2M	2440	Ant1	-0.99	30	Pass
NVNT	BLE 2M	2480	Ant1	-2.47	30	Pass



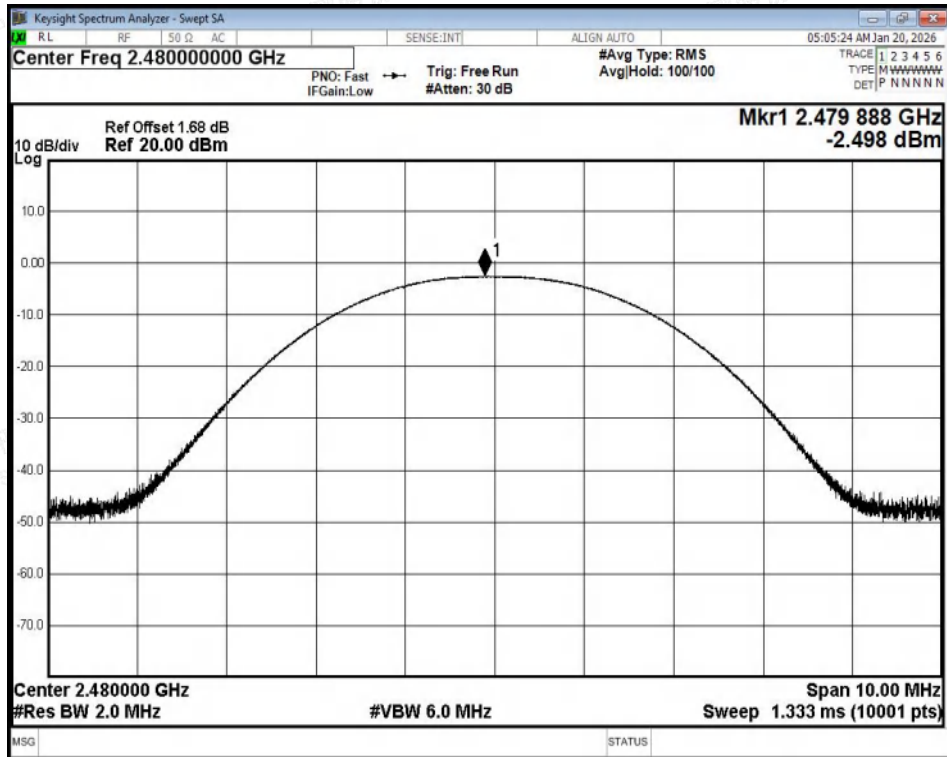


Peak Power NVNT BLE 1M 2402MHz Ant1

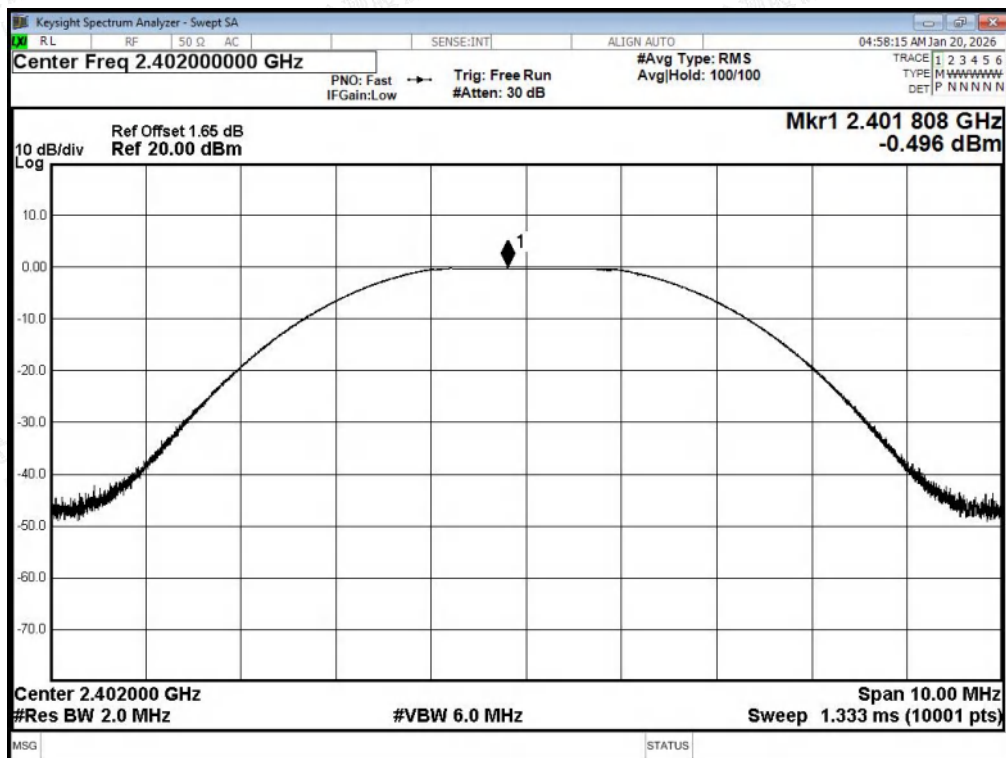


Peak Power NVNT BLE 1M 2440MHz Ant1



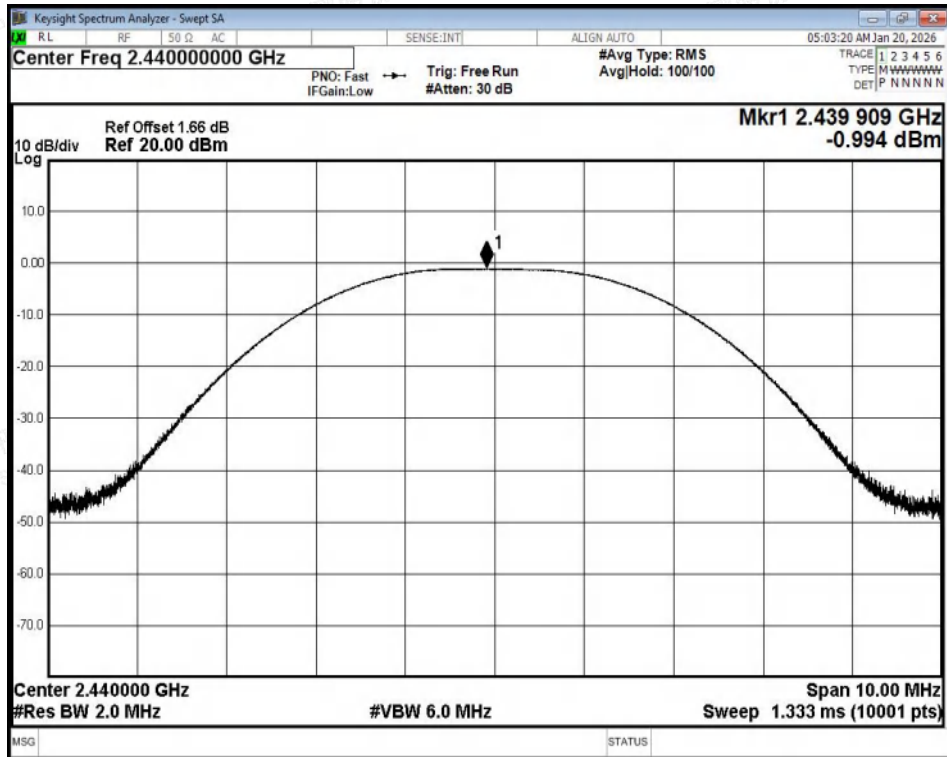


Peak Power NVNT BLE 1M 2480MHz Ant1

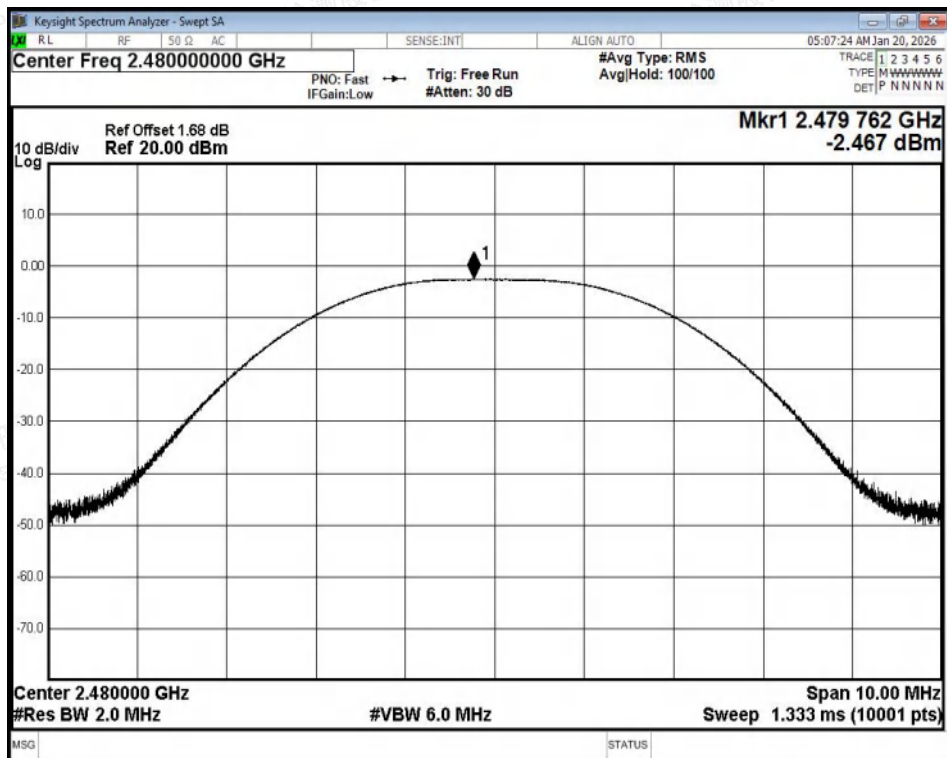


Peak Power NVNT BLE 2M 2402MHz Ant1





Peak Power NVNT BLE 2M 2440MHz Ant1



Peak Power NVNT BLE 2M 2480MHz Ant1



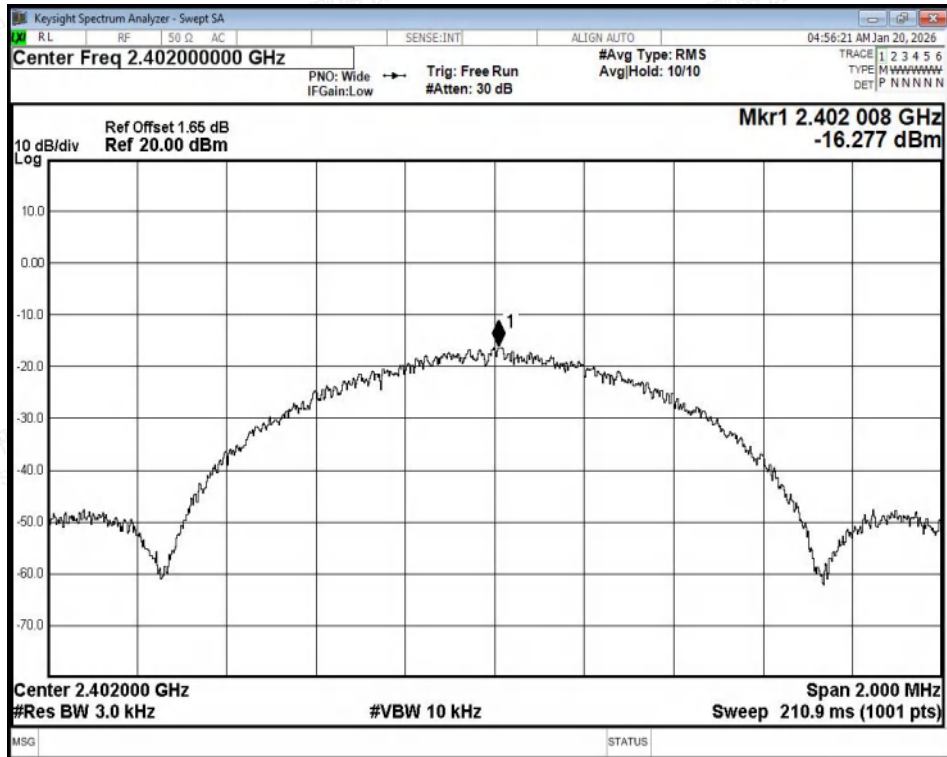


A.3 Maximum Power Spectral Density Level

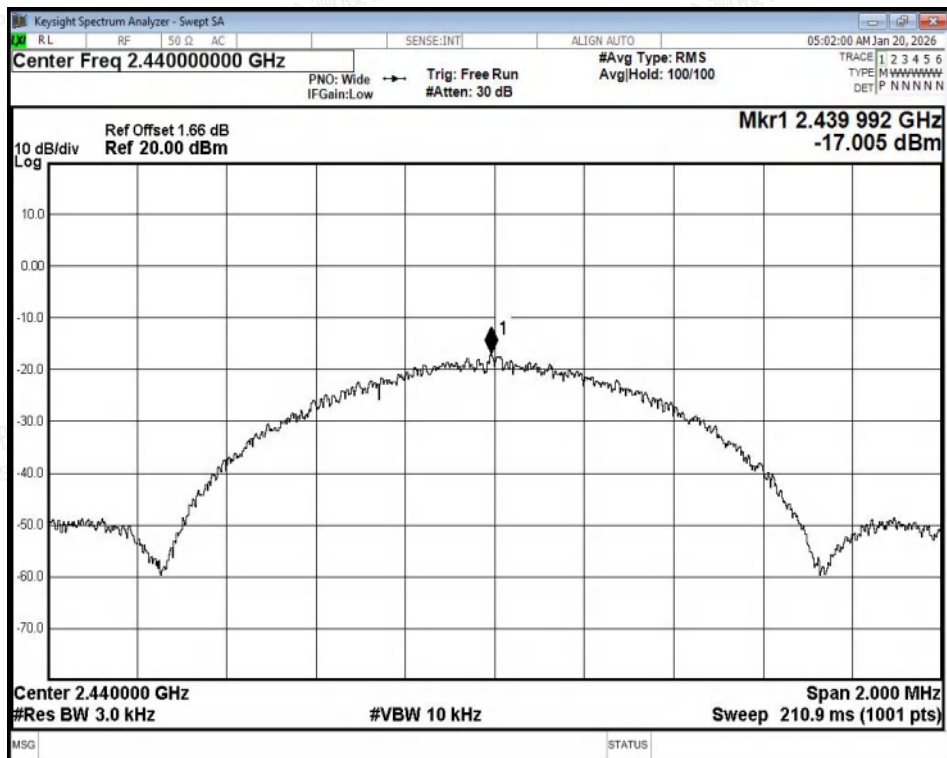
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-16.28	8	Pass
NVNT	BLE 1M	2440	Ant1	-17.01	8	Pass
NVNT	BLE 1M	2480	Ant1	-18.34	8	Pass
NVNT	BLE 2M	2402	Ant1	-20.94	8	Pass
NVNT	BLE 2M	2440	Ant1	-21.73	8	Pass
NVNT	BLE 2M	2480	Ant1	-23.2	8	Pass



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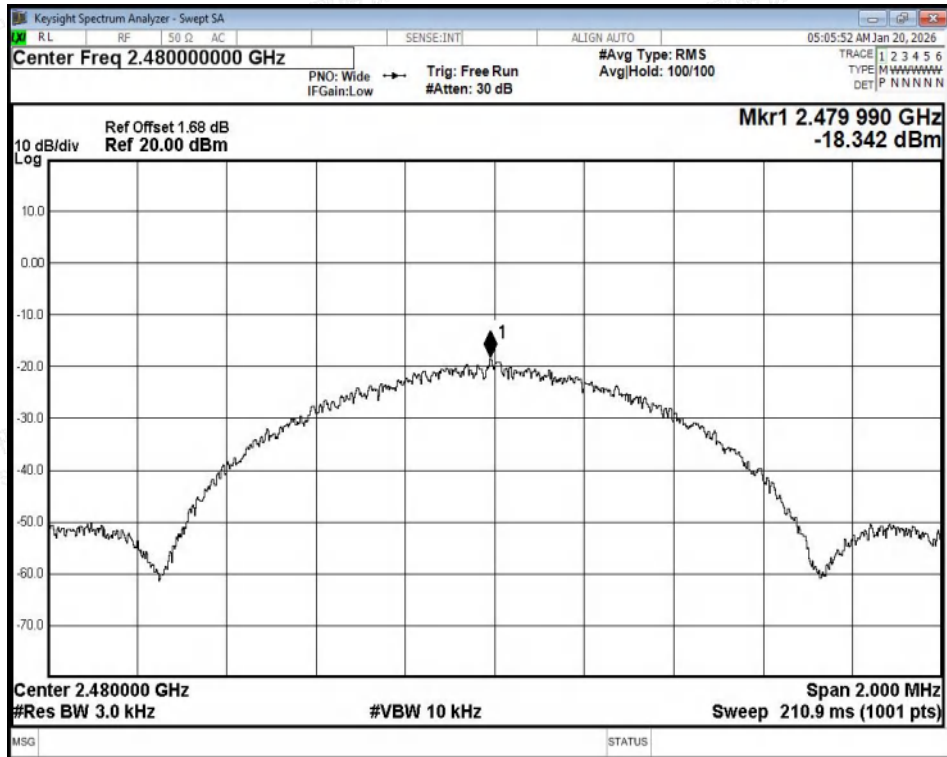


PSD NVNT BLE 1M 2402MHz Ant1

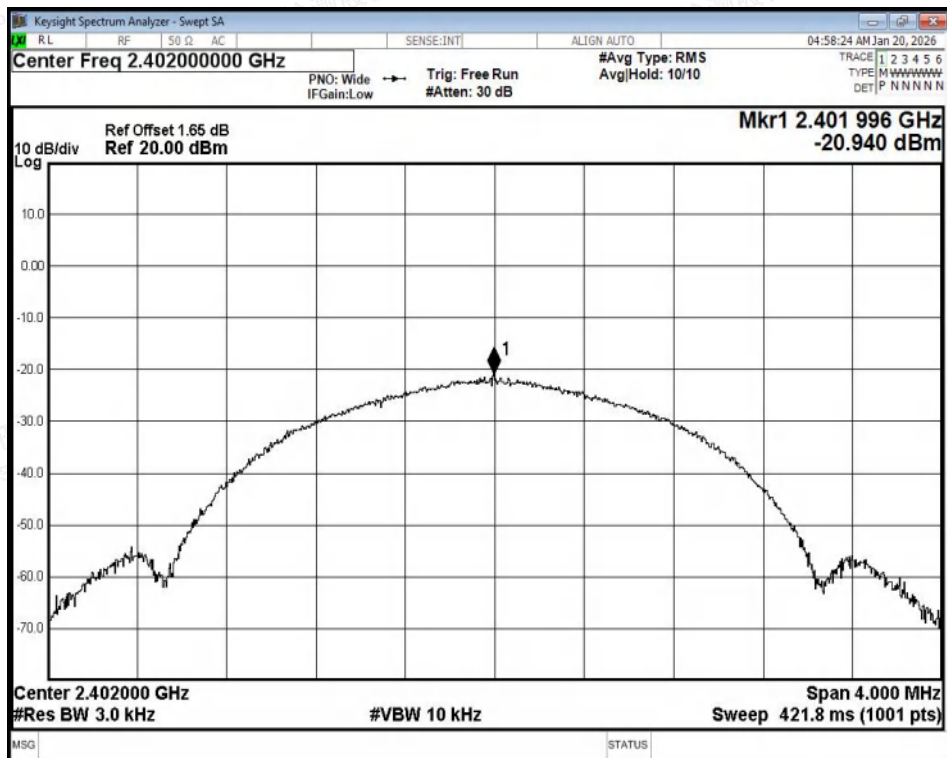


PSD NVNT BLE 1M 2440MHz Ant1



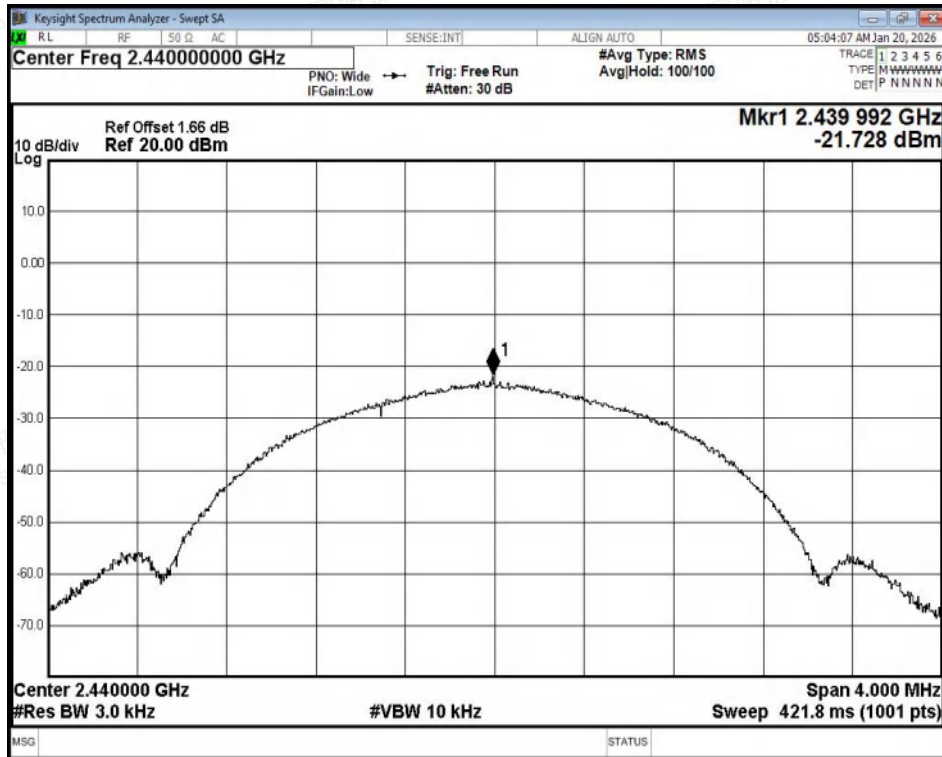


PSD NVNT BLE 1M 2480MHz Ant1

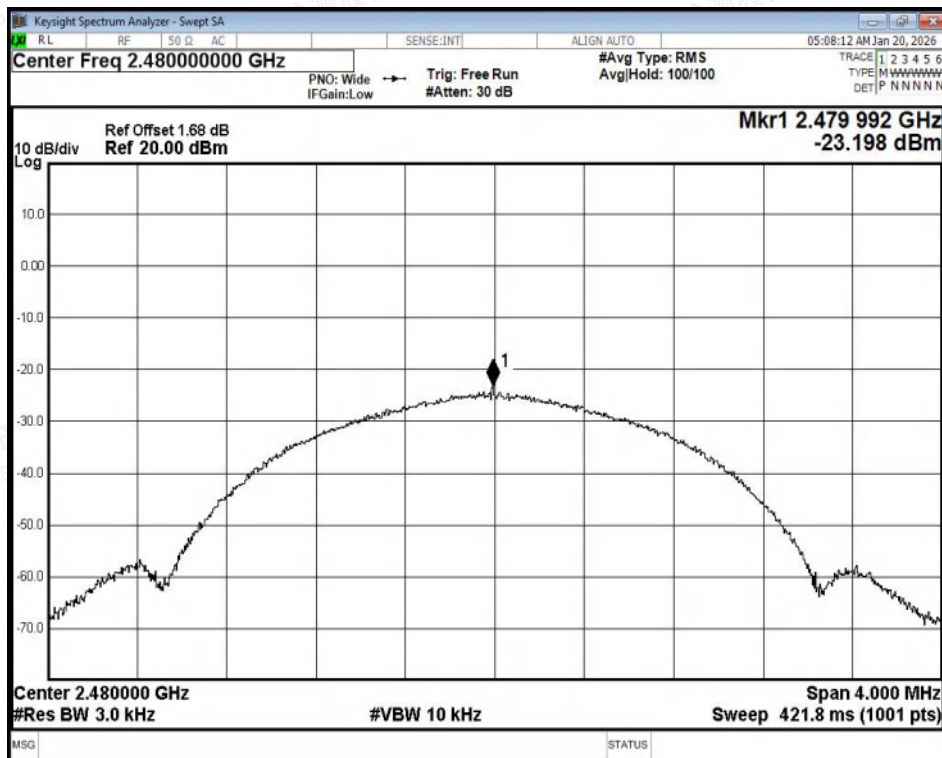


PSD NVNT BLE 2M 2402MHz Ant1





PSD NVNT BLE 2M 2440MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1



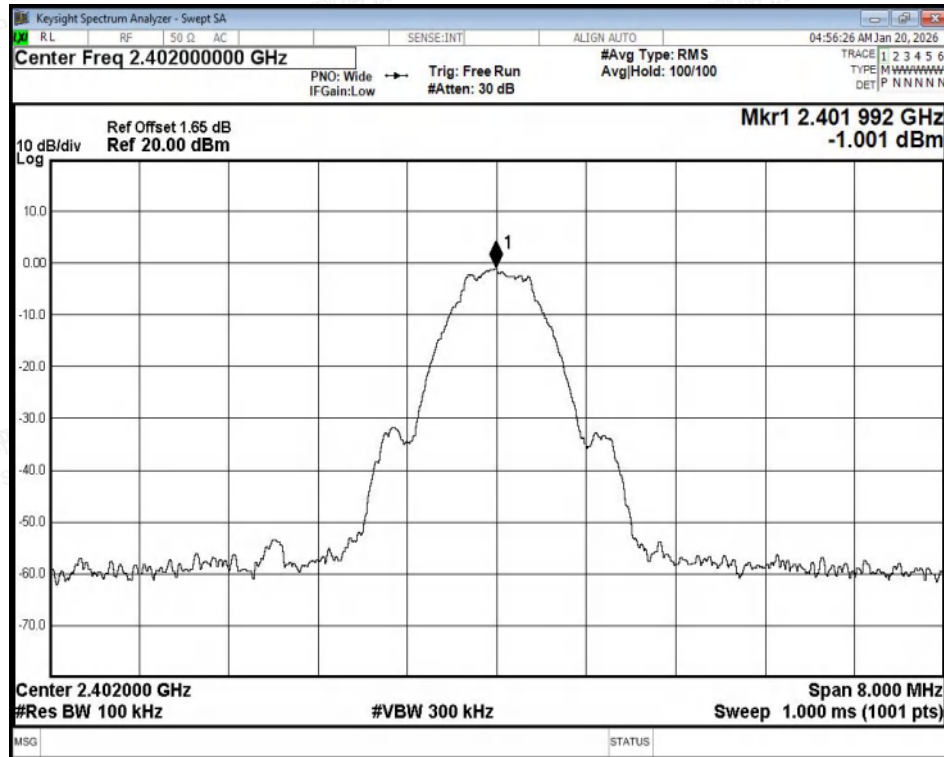


A.4 Band Edge

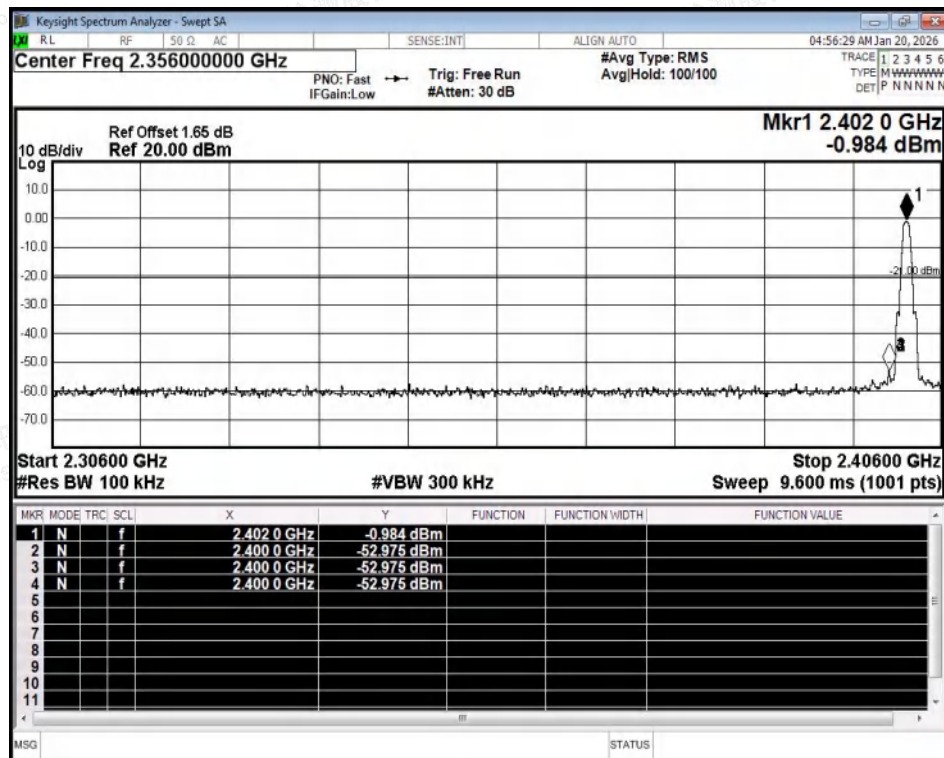
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-51.97	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.04	-20	Pass
NVNT	BLE 2M	2402	Ant1	-43.06	-20	Pass
NVNT	BLE 2M	2480	Ant1	-51.9	-20	Pass



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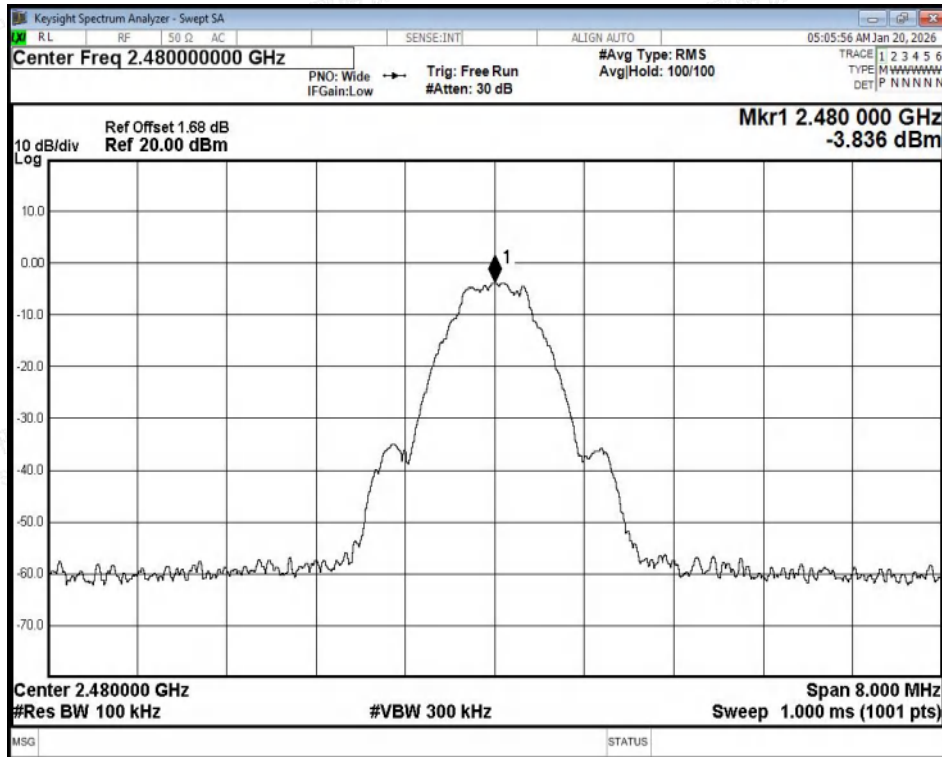


Band Edge NVNT BLE 1M 2402MHz Ant1 Ref

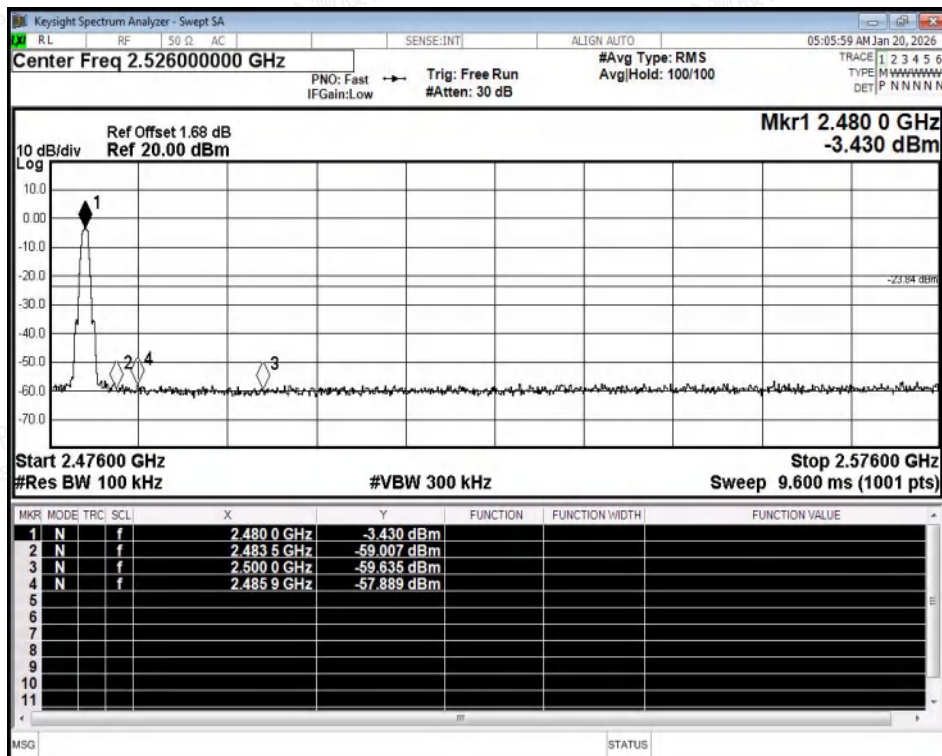


Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



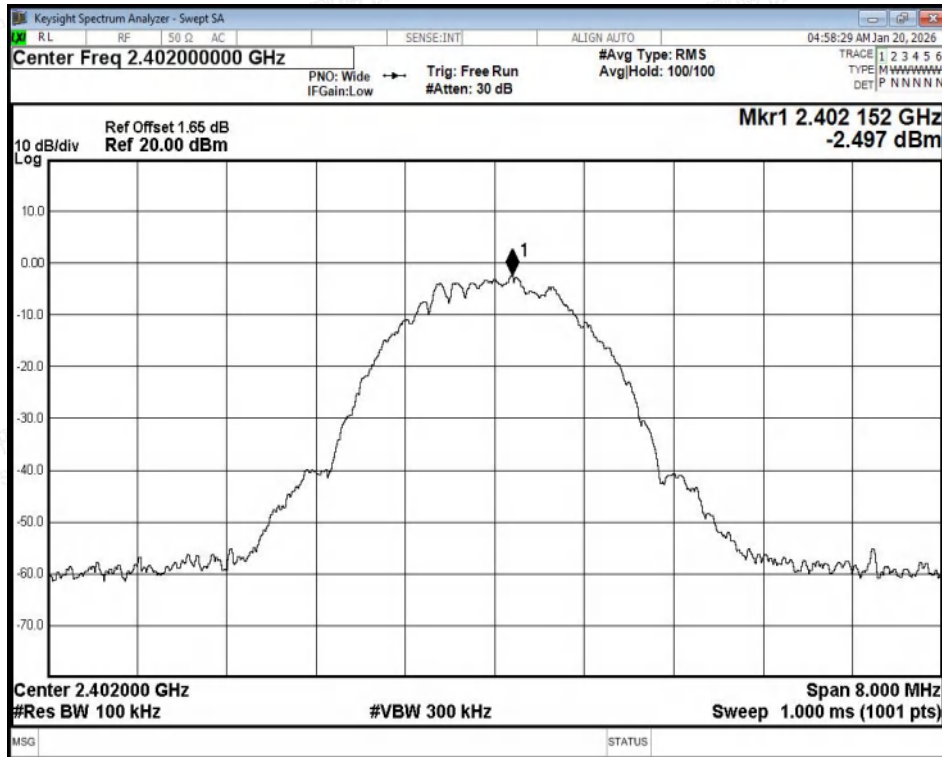


Band Edge NVNT BLE 1M 2480MHz Ant1 Ref

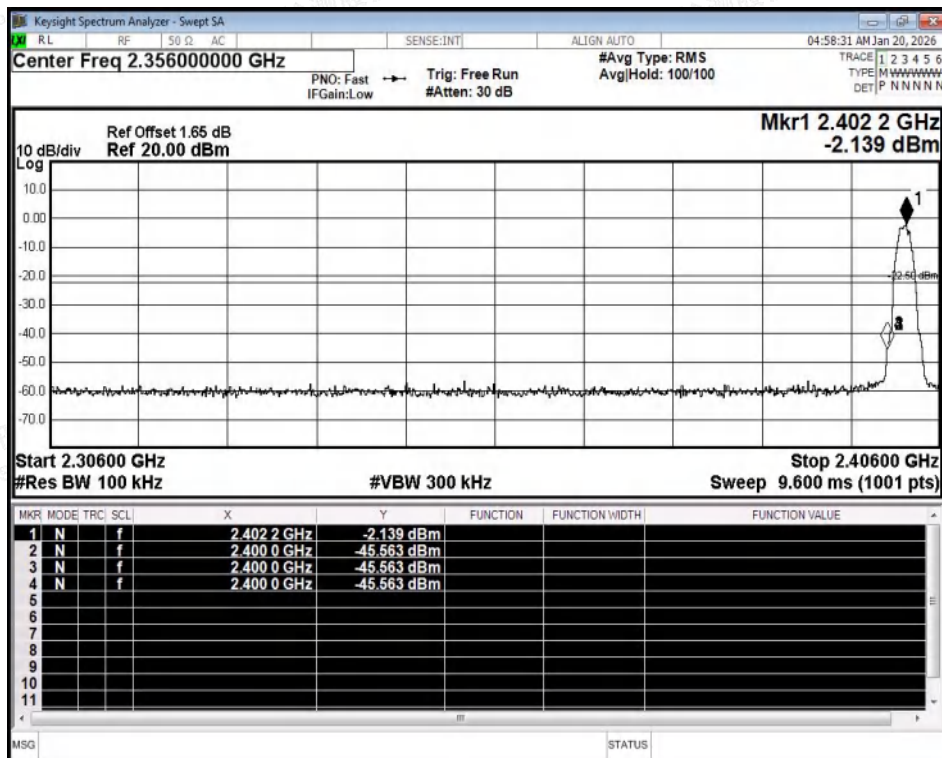


Band Edge NVNT BLE 1M 2480MHz Ant1 Emission





Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission

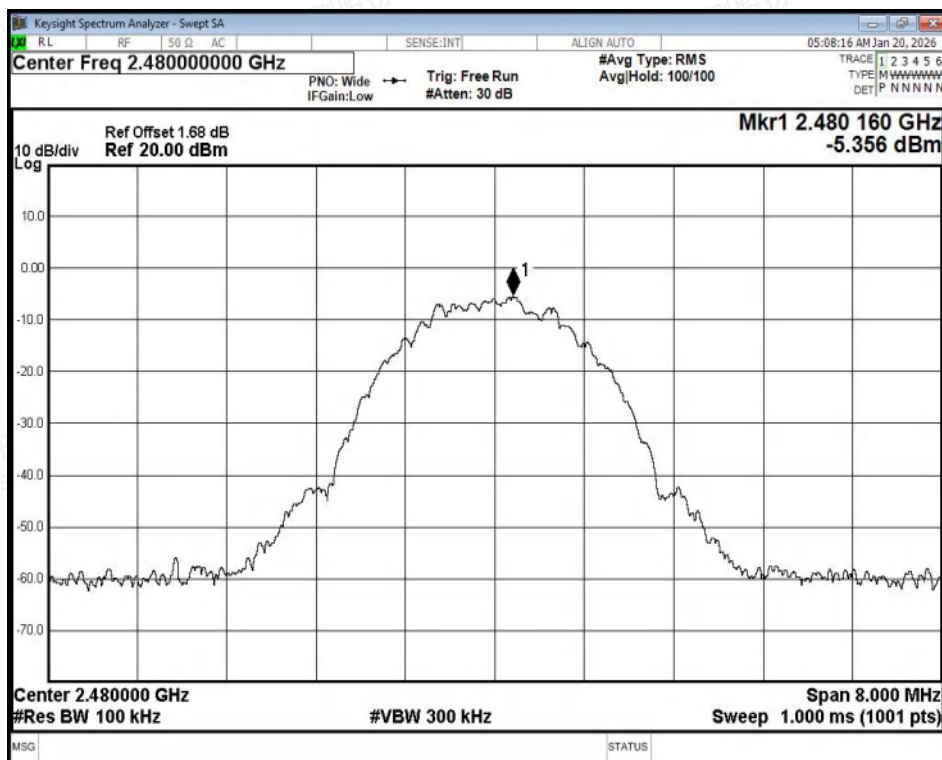


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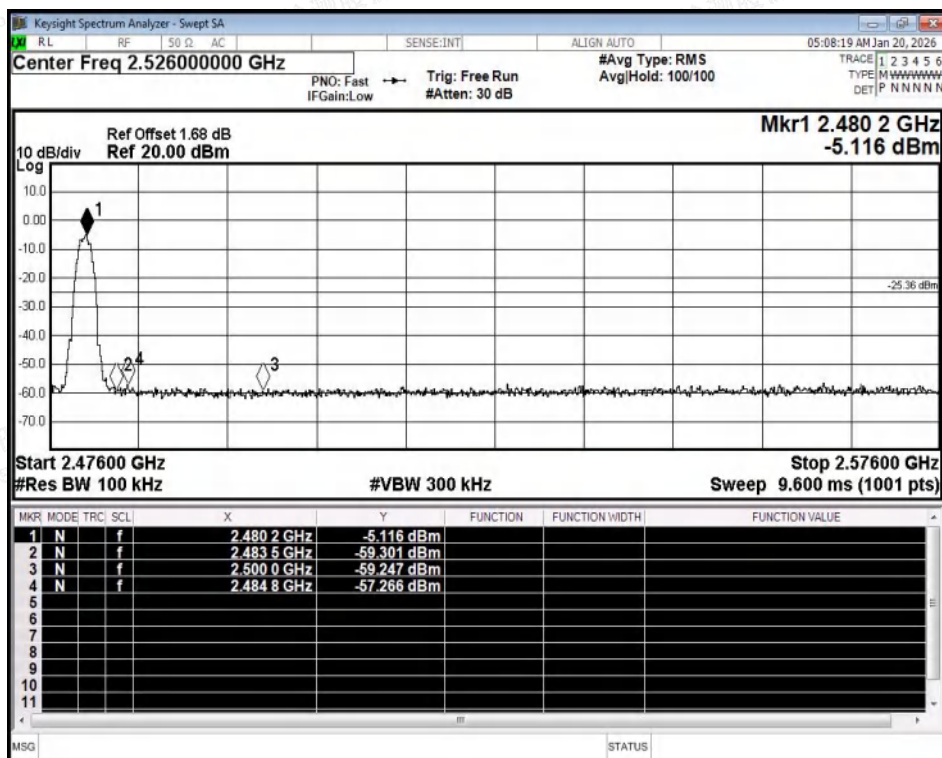
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Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission

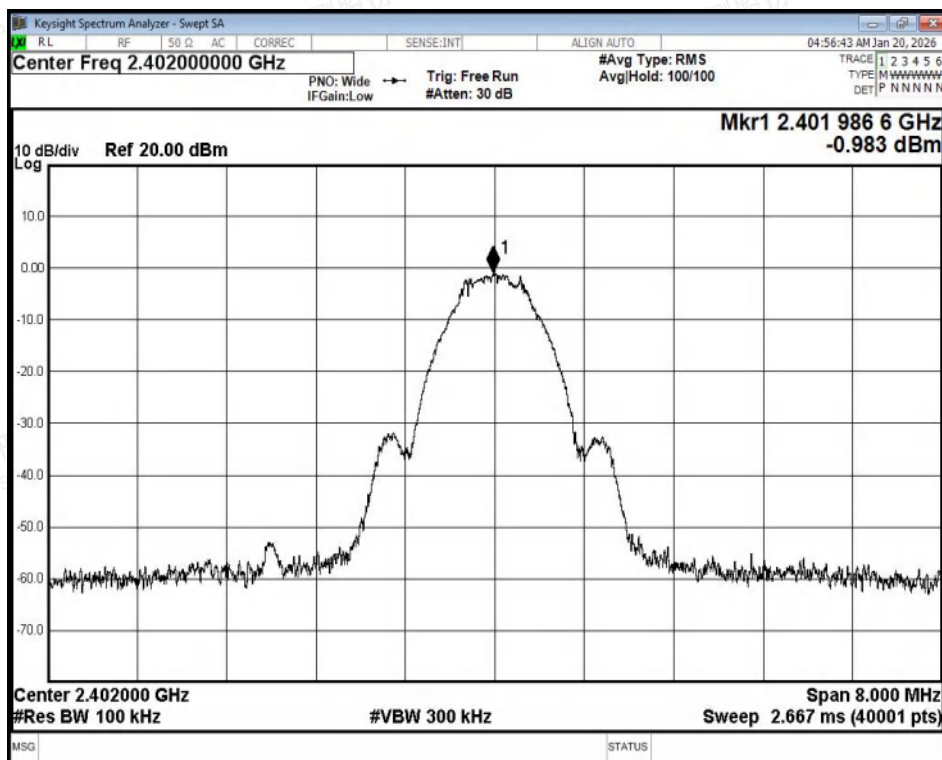




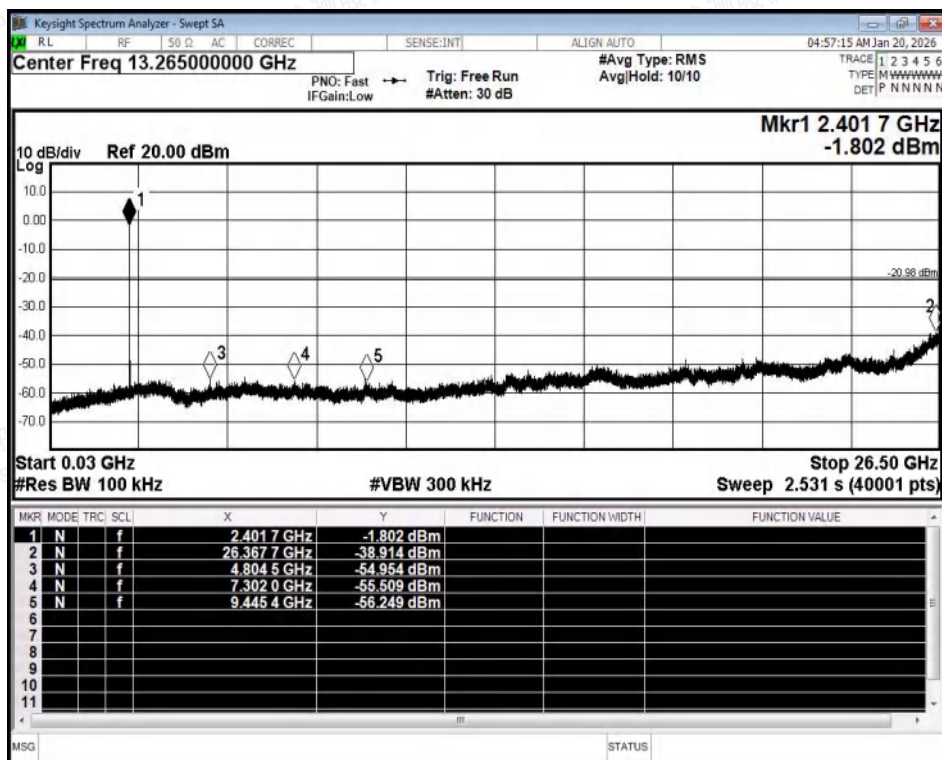
A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-37.93	-20	Pass
NVNT	BLE 1M	2440	Ant1	-36.84	-20	Pass
NVNT	BLE 1M	2480	Ant1	-34.2	-20	Pass
NVNT	BLE 2M	2402	Ant1	-44.49	-20	Pass
NVNT	BLE 2M	2440	Ant1	-42.72	-20	Pass
NVNT	BLE 2M	2480	Ant1	-41.1	-20	Pass



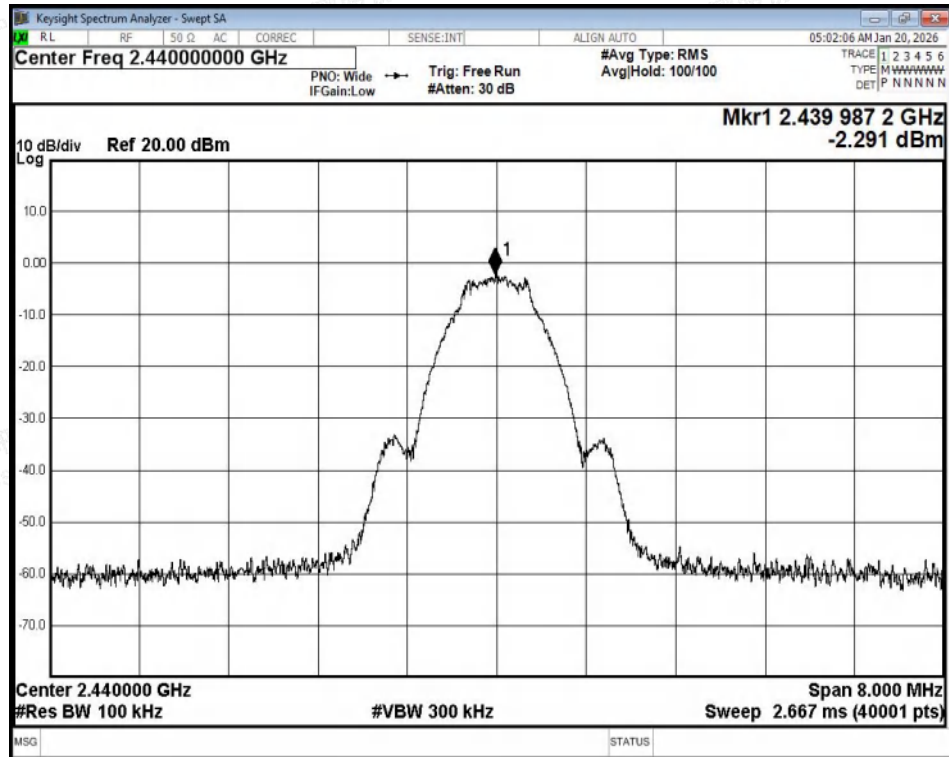


Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref

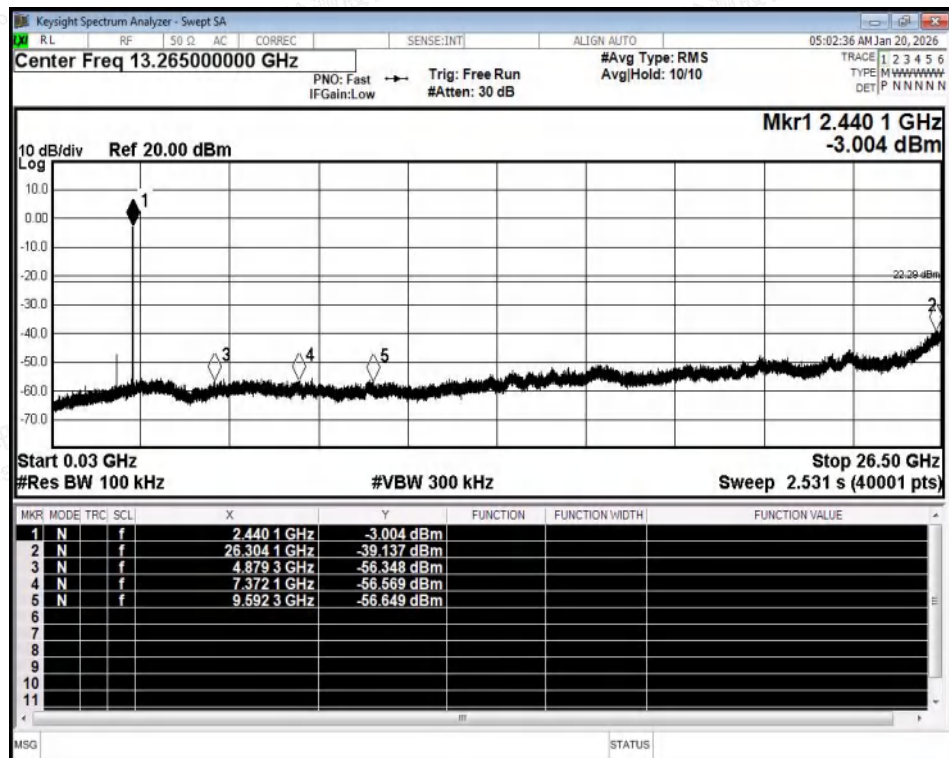


Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



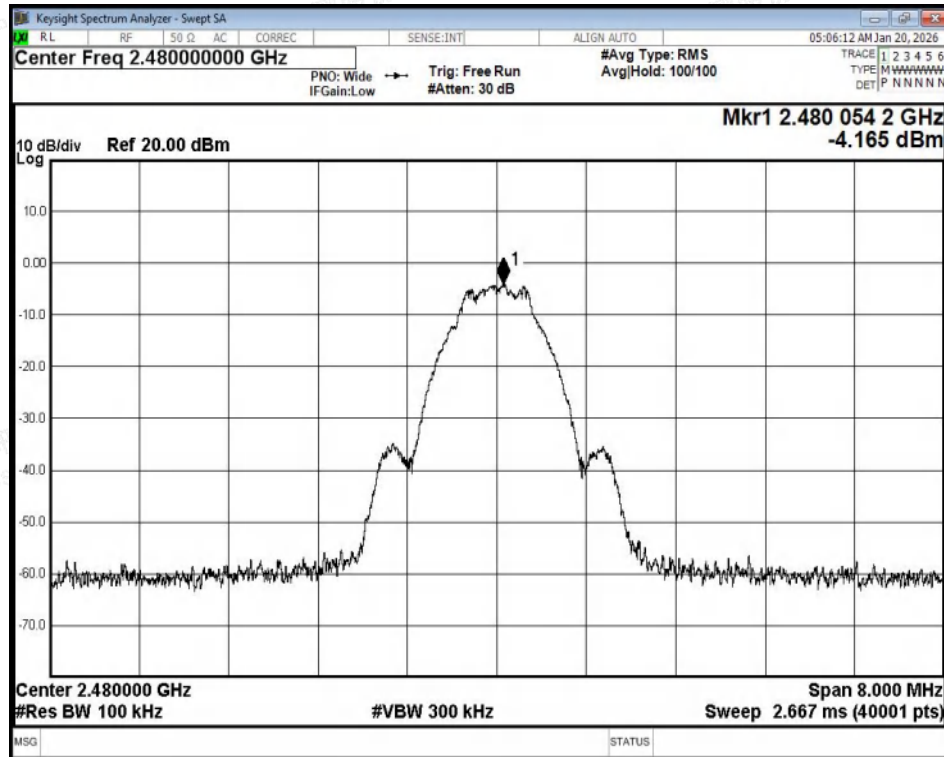


Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref

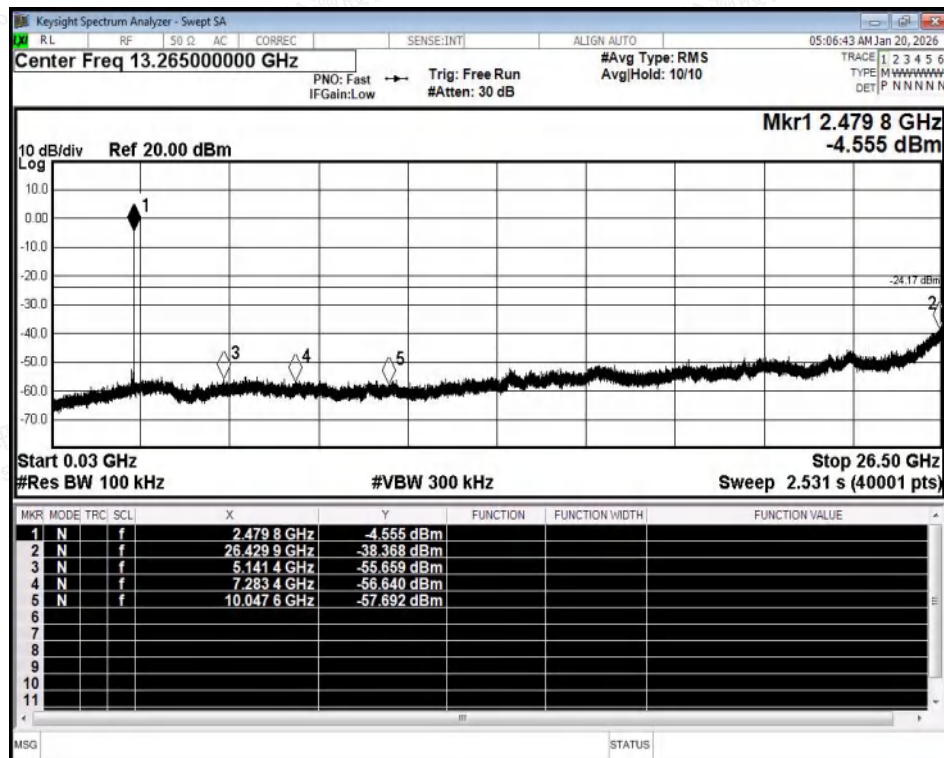


Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



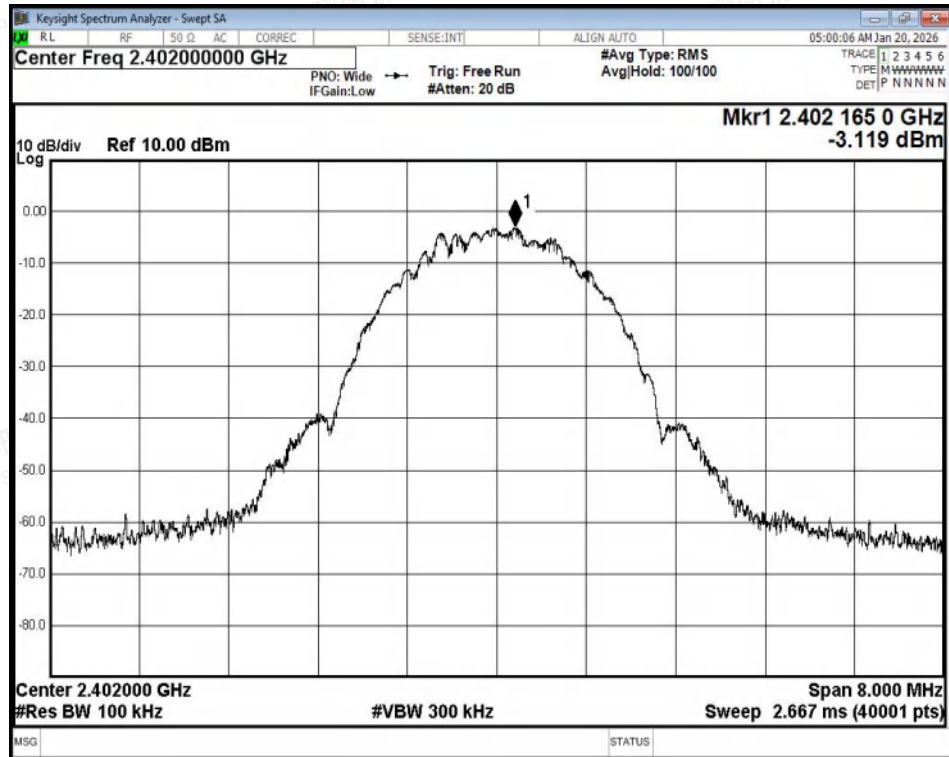


Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref

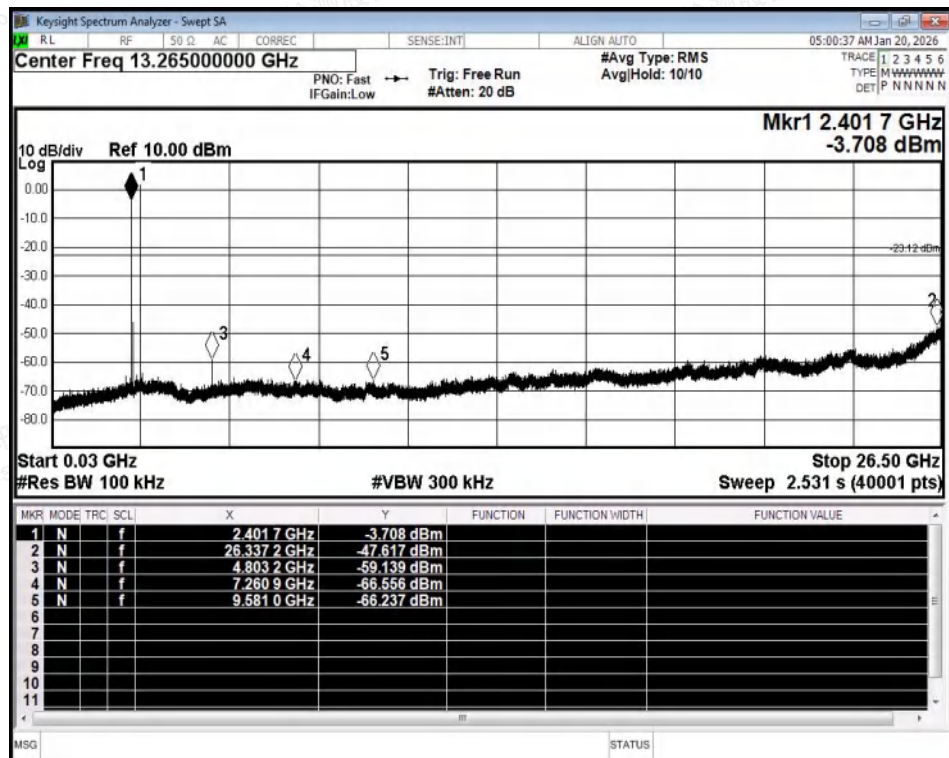


Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



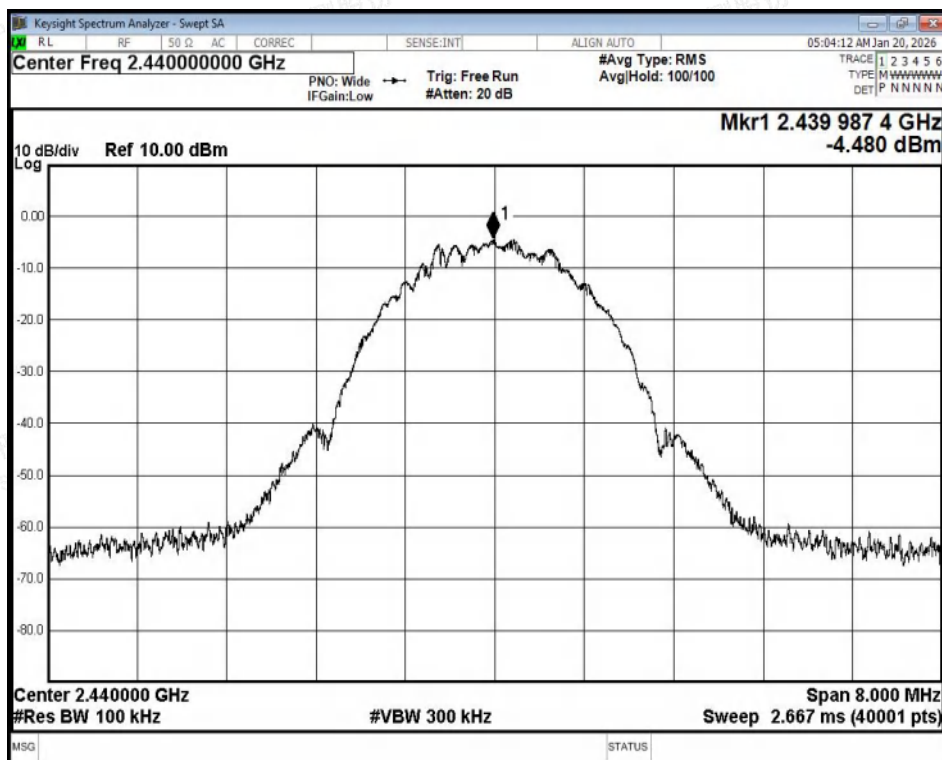


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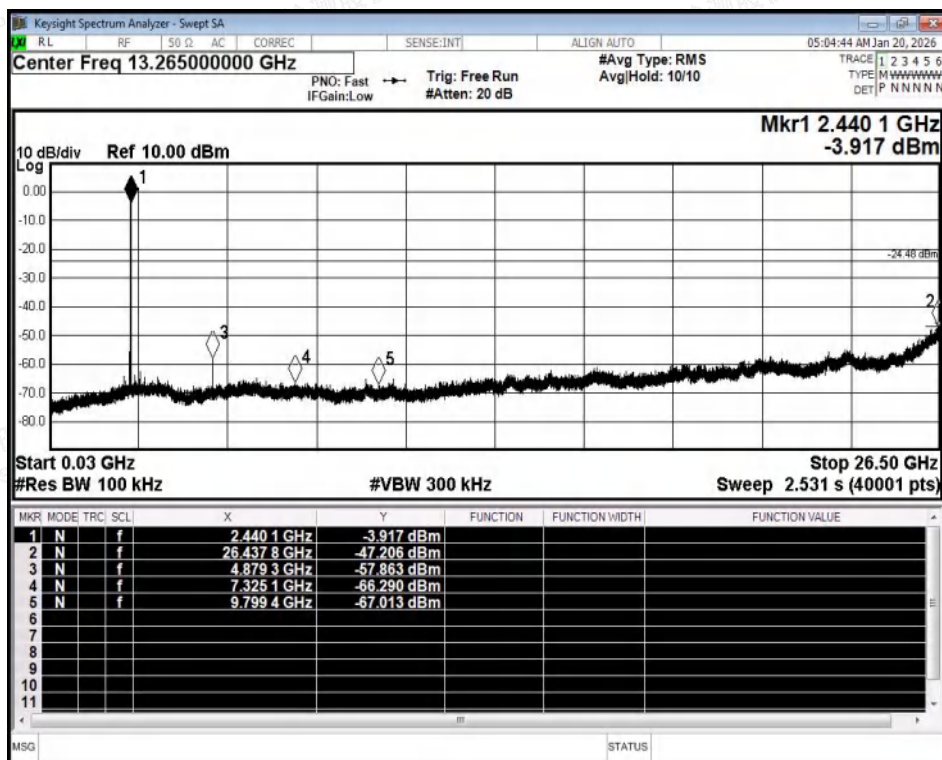


Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



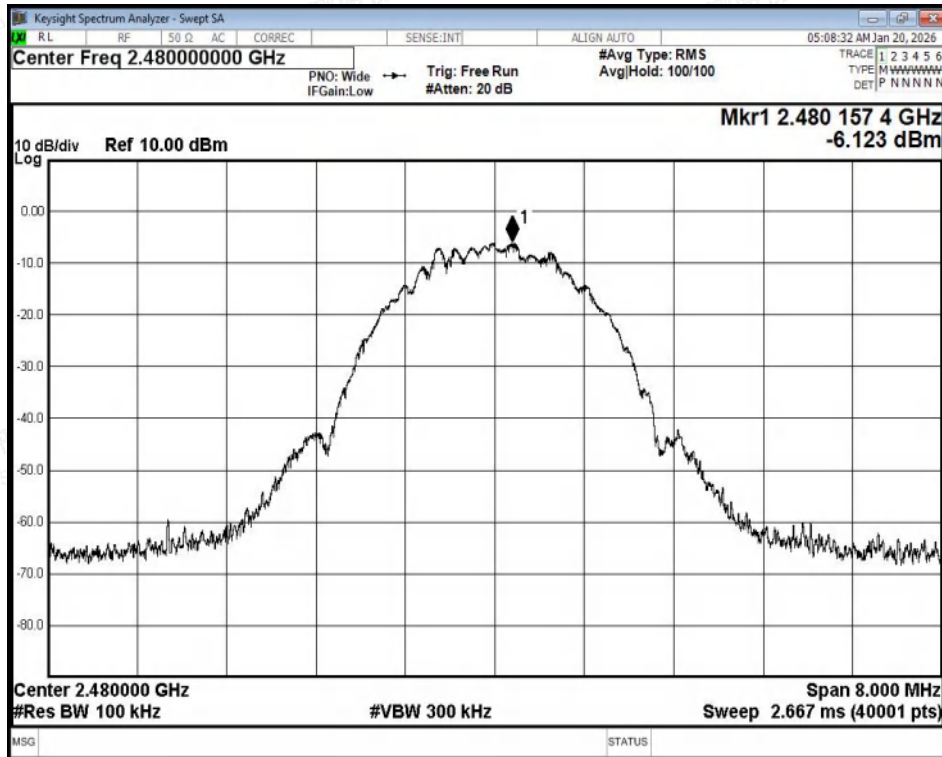


Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref

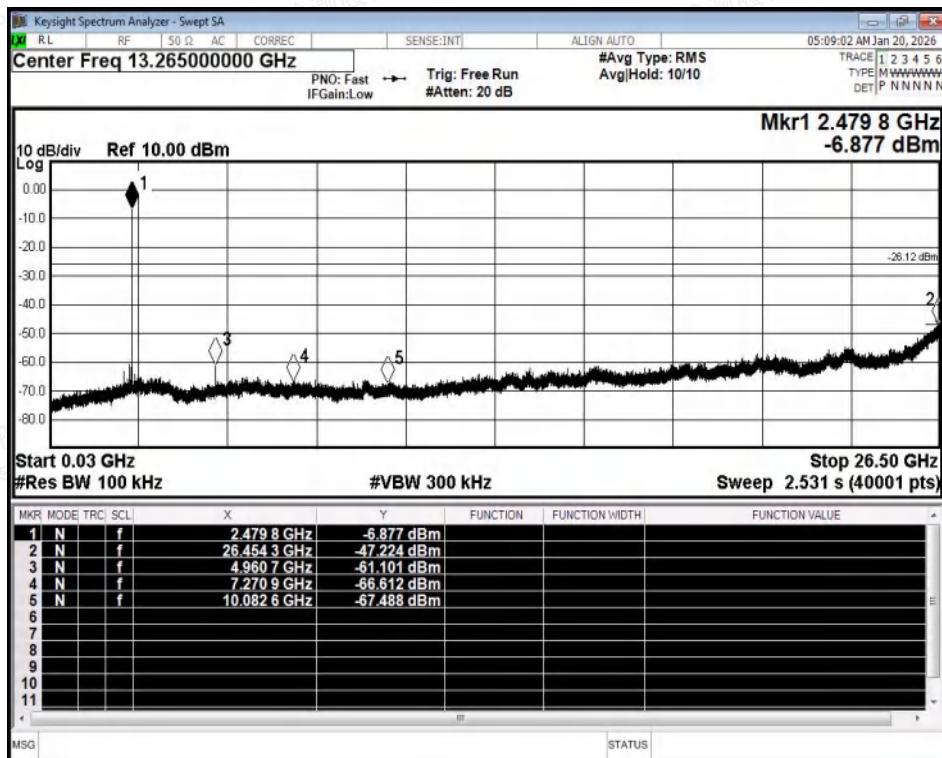


Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission





Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission



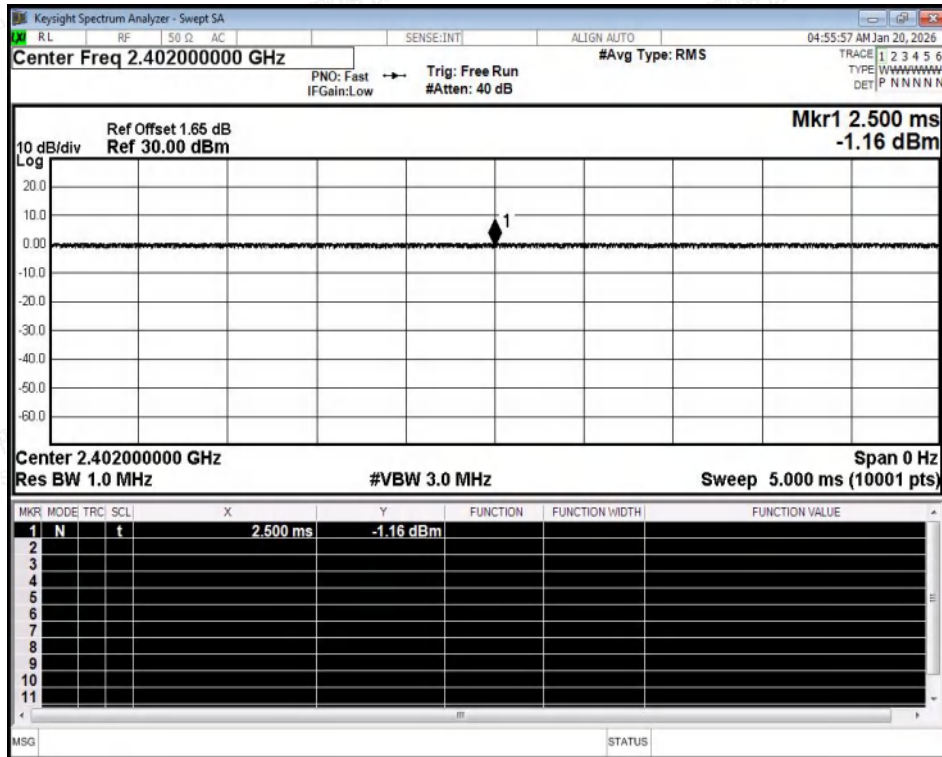


A.6 Duty Cycle

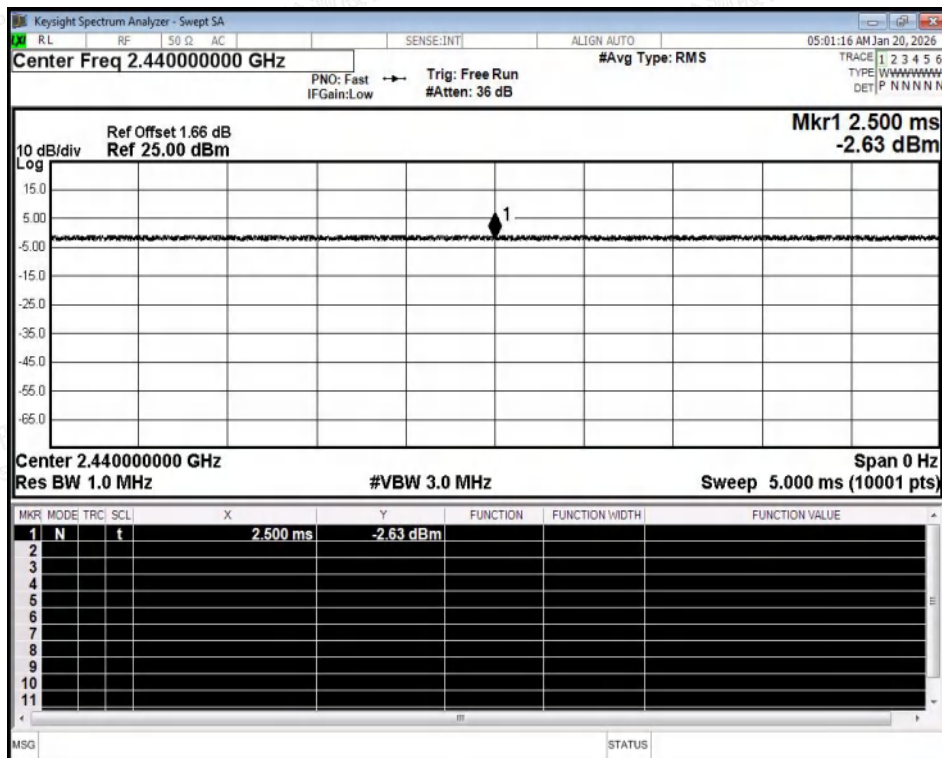
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	100	0	0
NVNT	BLE 1M	2440	Ant1	100	0	0
NVNT	BLE 1M	2480	Ant1	100	0	0
NVNT	BLE 2M	2402	Ant1	100	0	0
NVNT	BLE 2M	2440	Ant1	100	0	0
NVNT	BLE 2M	2480	Ant1	100	0	0



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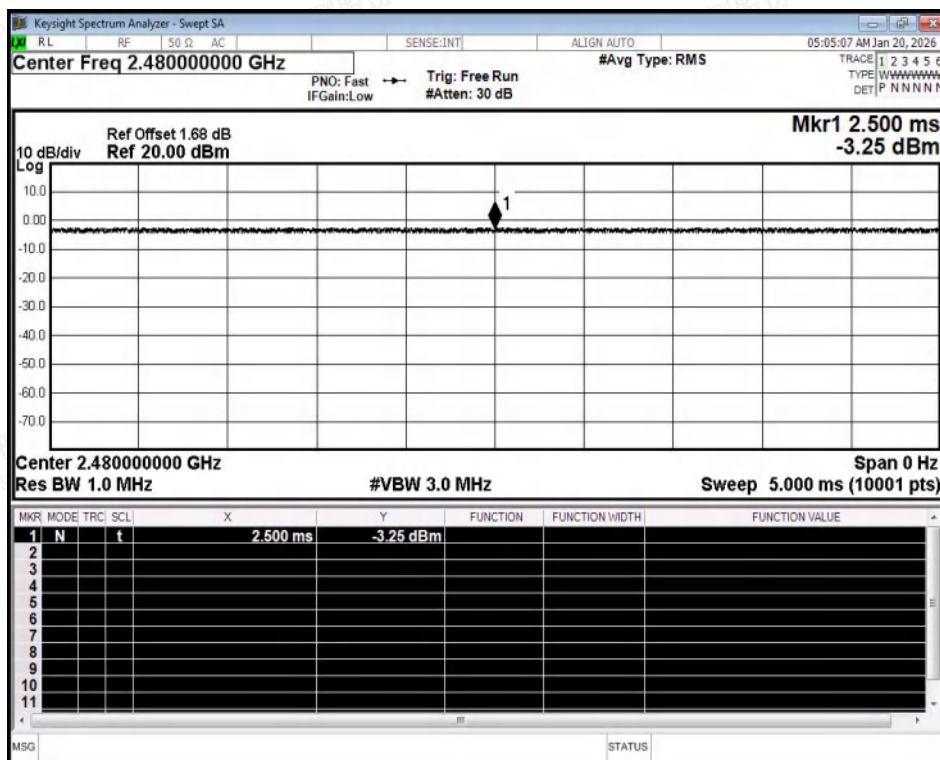


Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1



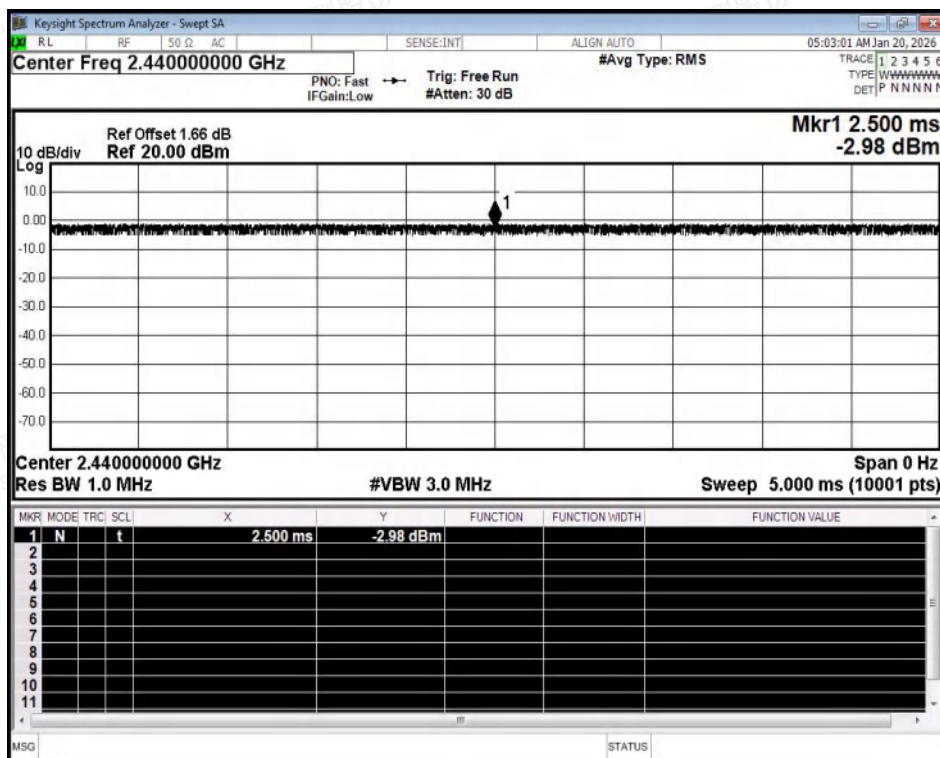


Duty Cycle NVNT BLE 1M 2480MHz Ant1

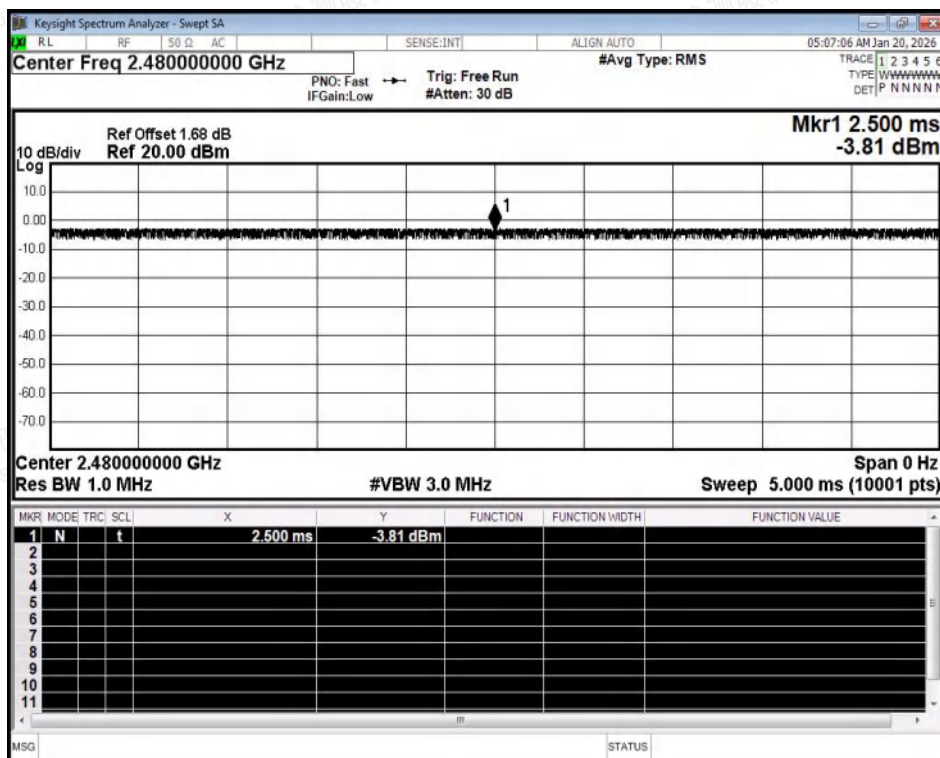


Duty Cycle NVNT BLE 2M 2402MHz Ant1





Duty Cycle NVNT BLE 2M 2440MHz Ant1



Duty Cycle NVNT BLE 2M 2480MHz Ant1



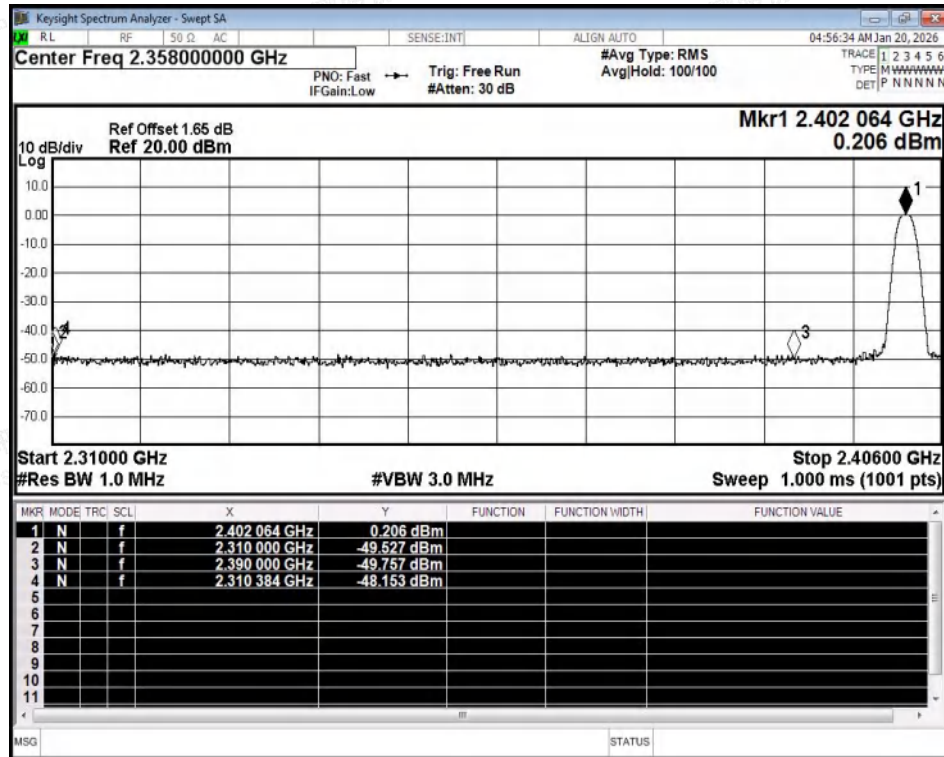


A.7 Restrict Band

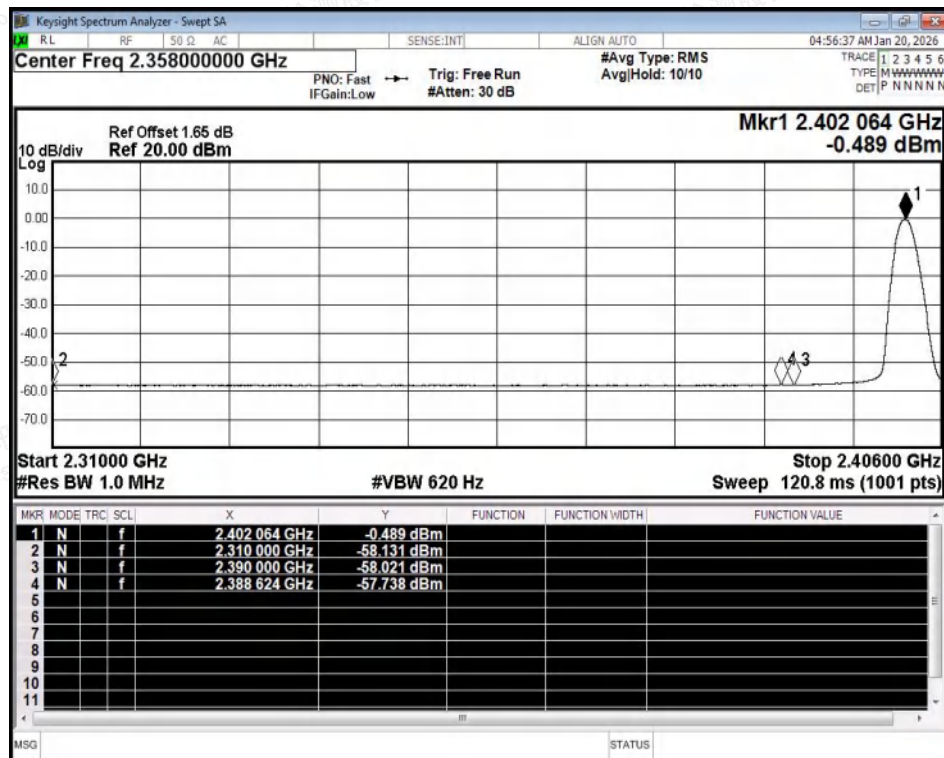
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-49.52	3.12	48.86	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.13	3.12	40.25	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2310.384	-48.15	3.12	50.23	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2388.624	-57.73	3.12	40.65	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-49.22	3.12	49.16	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-57.99	3.12	40.39	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-50.15	3.12	48.23	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-55.86	3.12	42.52	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2486.416	-47.55	3.12	50.83	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.512	-55.86	3.12	42.52	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-49.91	3.12	48.47	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-57.98	3.12	40.4	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2310	-50.2	3.12	48.18	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2310	-58.31	3.12	40.07	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2329.008	-47.89	3.12	50.49	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2389.68	-58.21	3.12	40.17	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2390	-51.16	3.12	47.22	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2390	-58.2	3.12	40.18	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-49.75	3.12	48.63	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-53.92	3.12	44.46	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.824	-47.7	3.12	50.68	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.512	-53.92	3.12	44.46	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2500	-51.41	3.12	46.97	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2500	-57.89	3.12	40.49	Average	54	Pass



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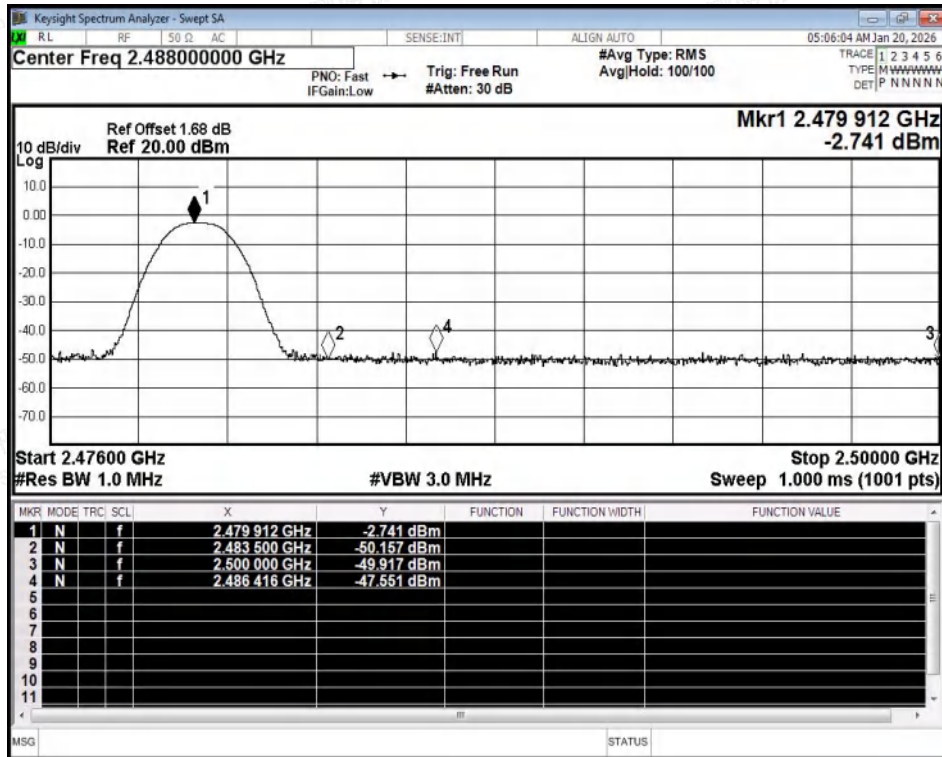


Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak

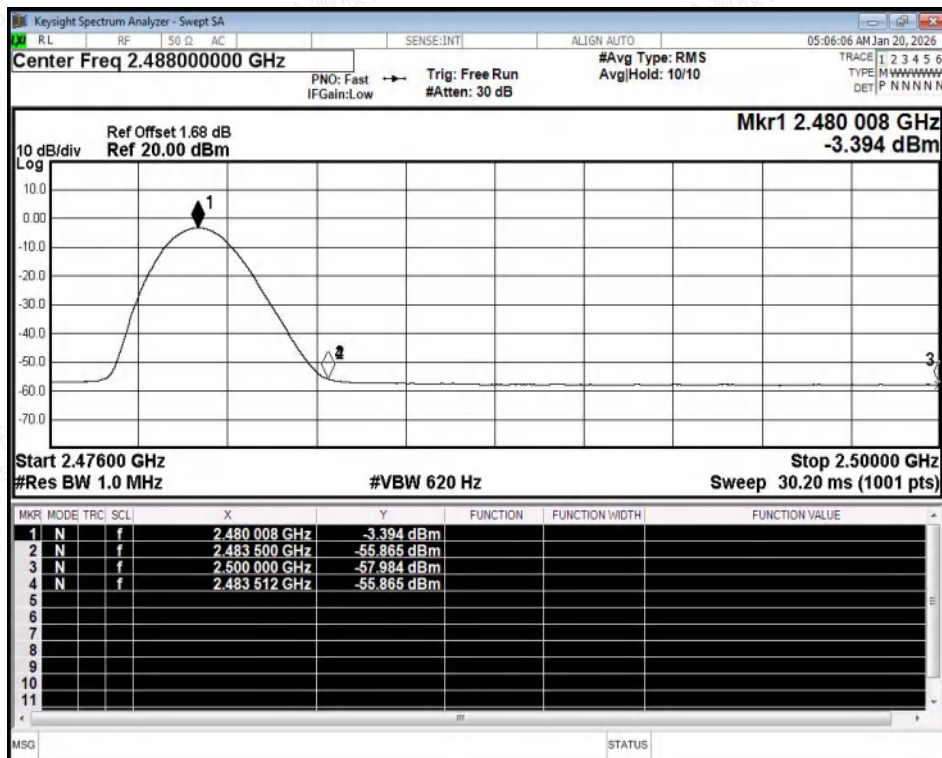


Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



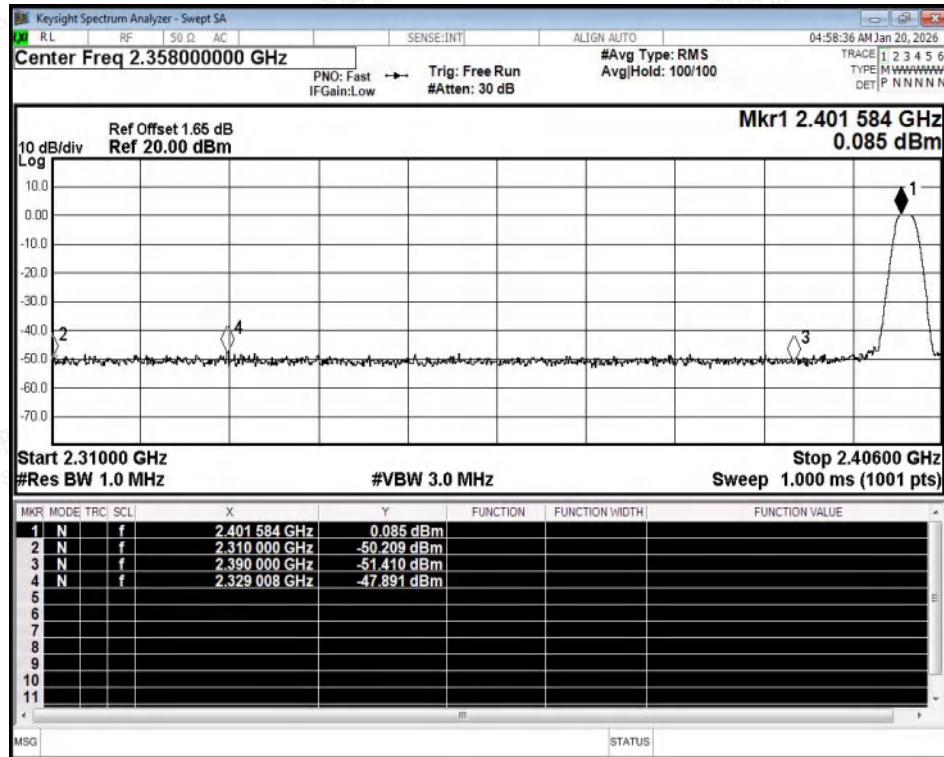


Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak

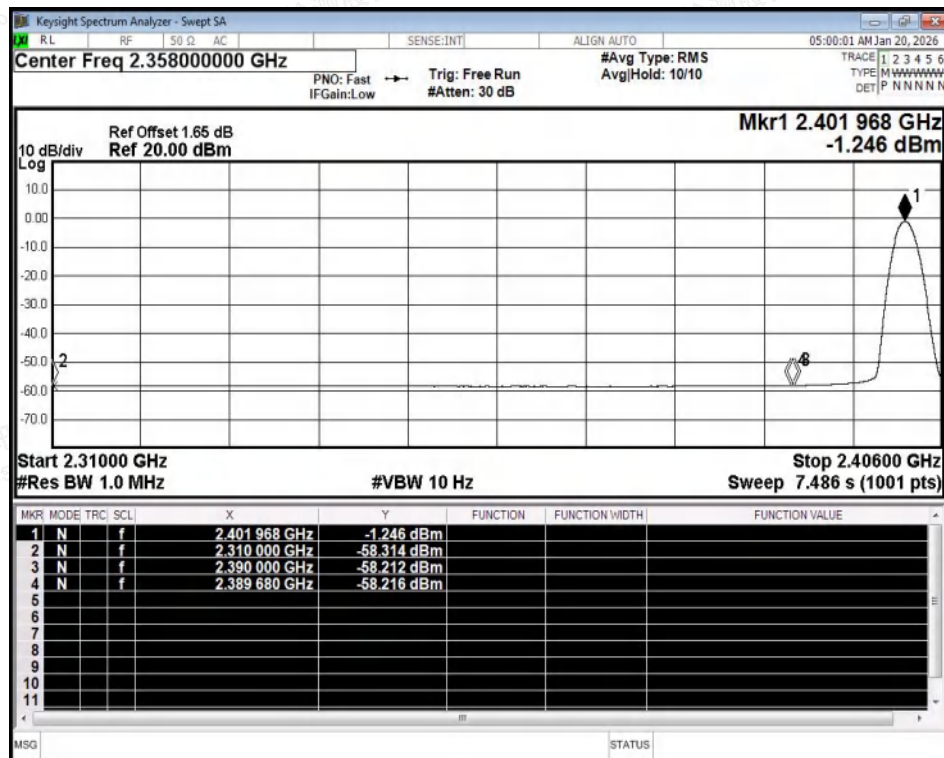


Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



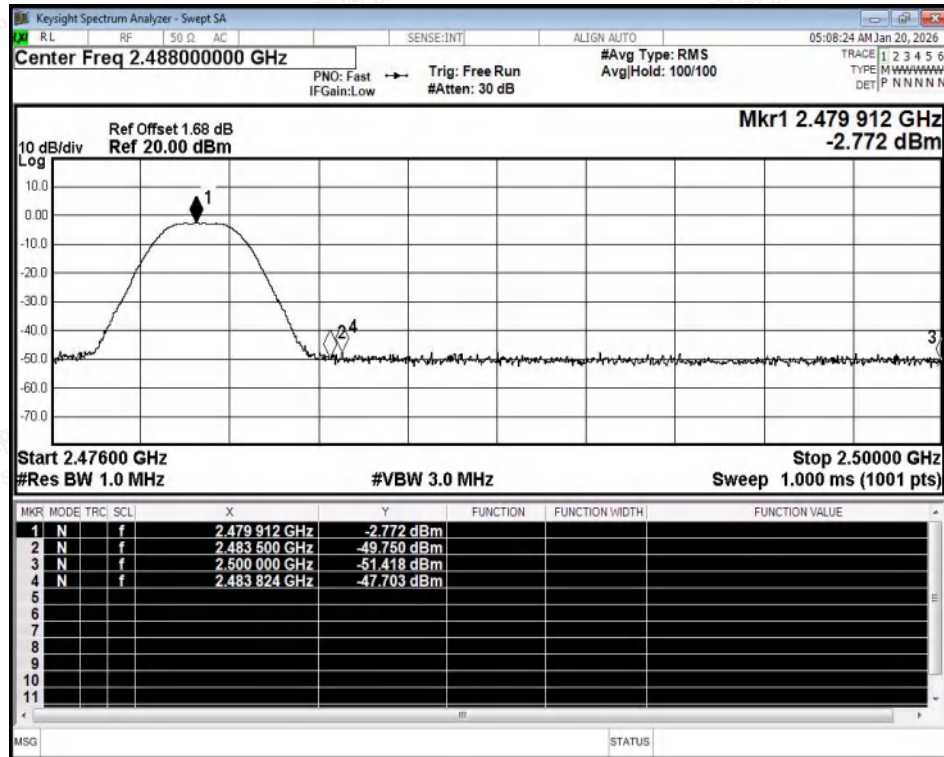


Restrict Band NVNT BLE 2M 2402MHz Ant1 Peak

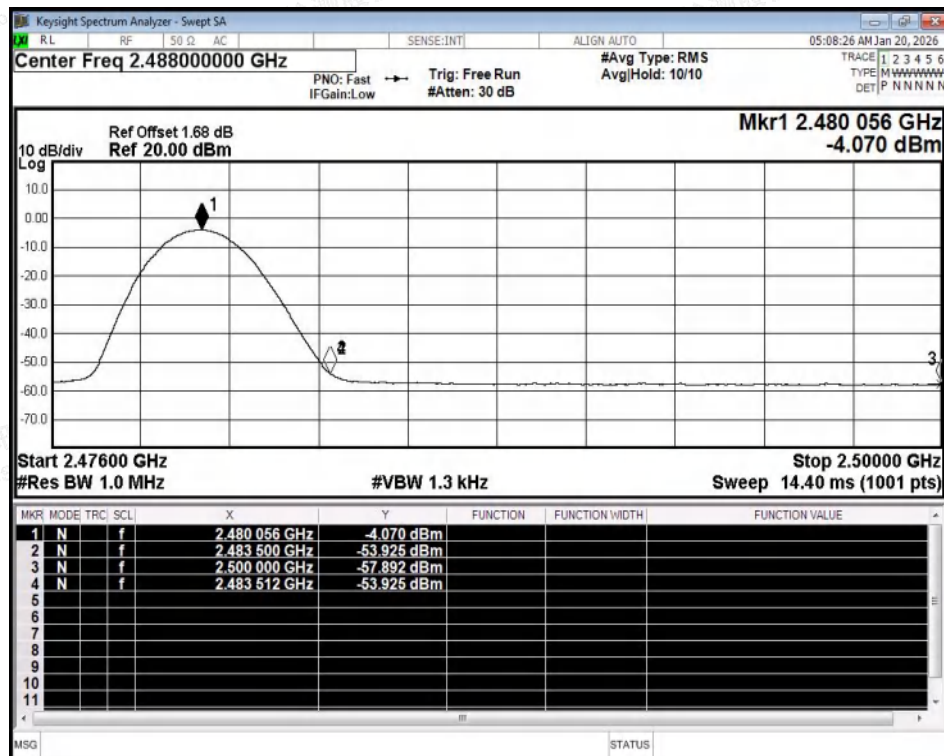


Restrict Band NVNT BLE 2M 2402MHz Ant1 Average





Restrict Band NVNT BLE 2M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2480MHz Ant1 Average

