



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: OWL Camera

Test Model: OWL 1

Environmental Conditions

Temperature:	24.2°C
Relative Humidity:	56.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun

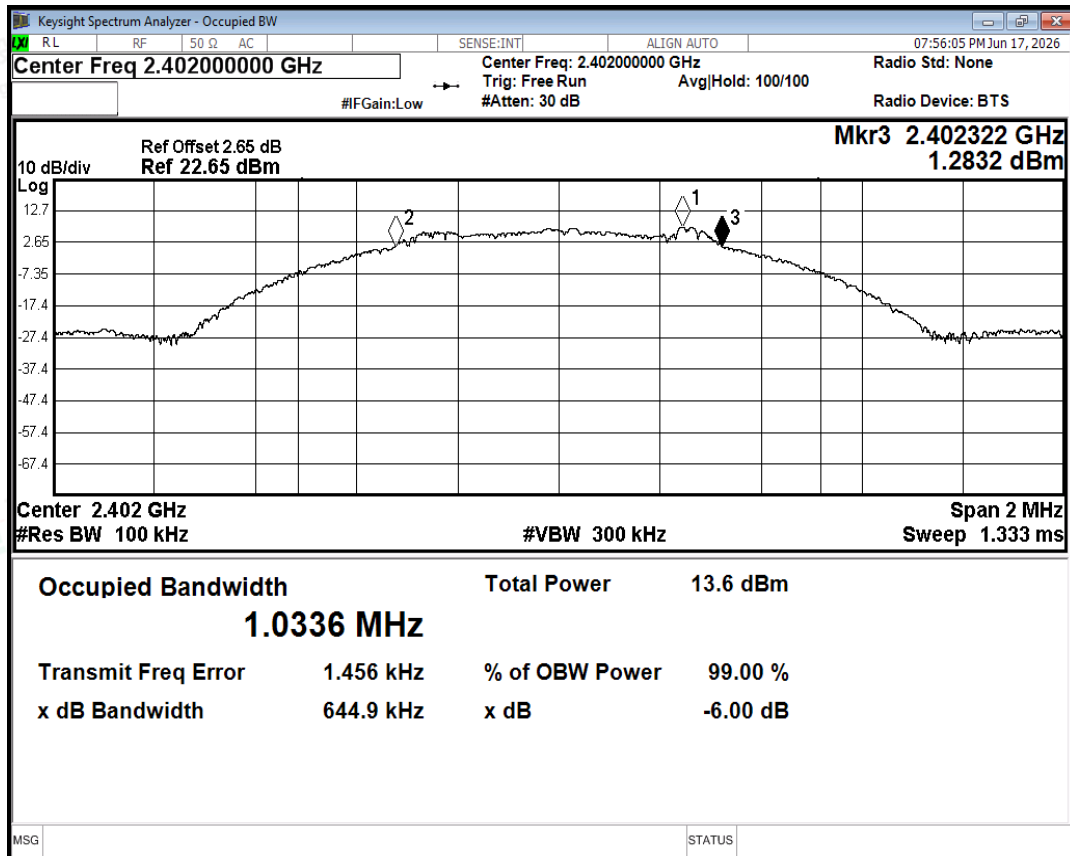




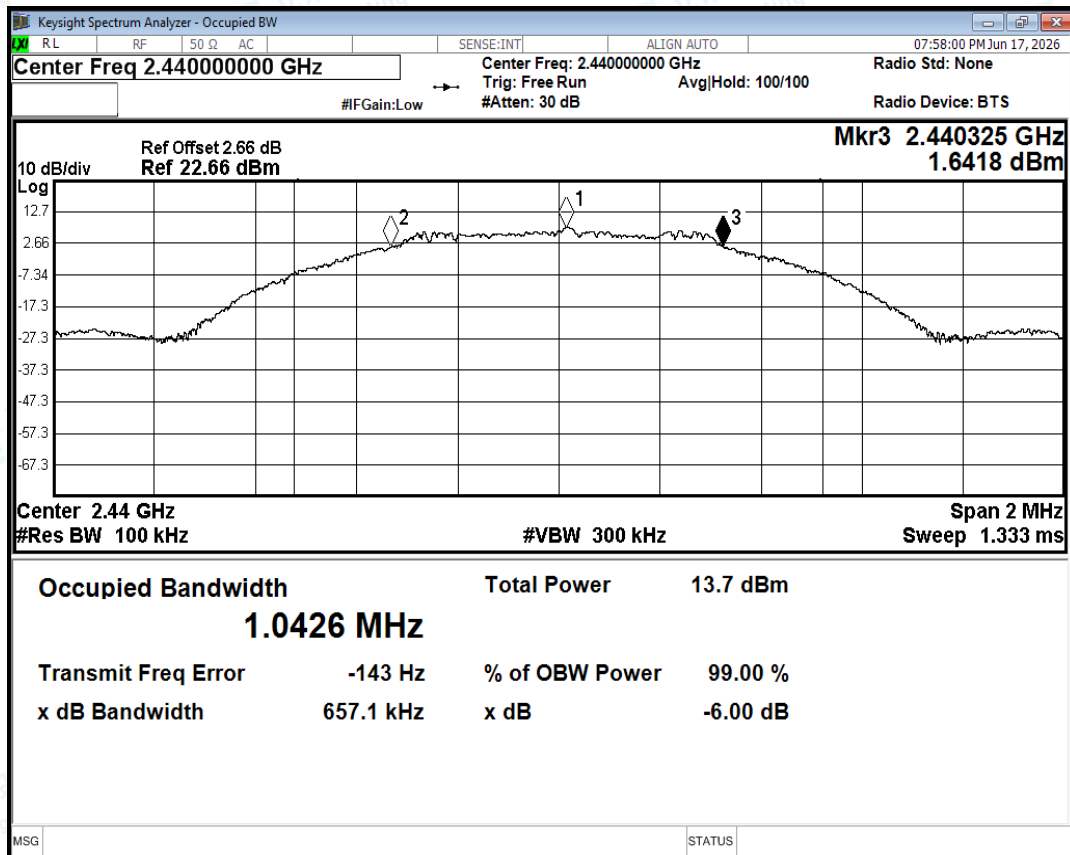
B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant2	0.6449	0.5	Pass
NVNT	BLE 1M	2440	Ant2	0.6571	0.5	Pass
NVNT	BLE 1M	2480	Ant2	0.6486	0.5	Pass
NVNT	BLE 2M	2402	Ant2	1.224	0.5	Pass
NVNT	BLE 2M	2440	Ant2	1.116	0.5	Pass
NVNT	BLE 2M	2480	Ant2	1.142	0.5	Pass





-6dB Bandwidth NVNT BLE 1M 2402MHz Ant2



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant2

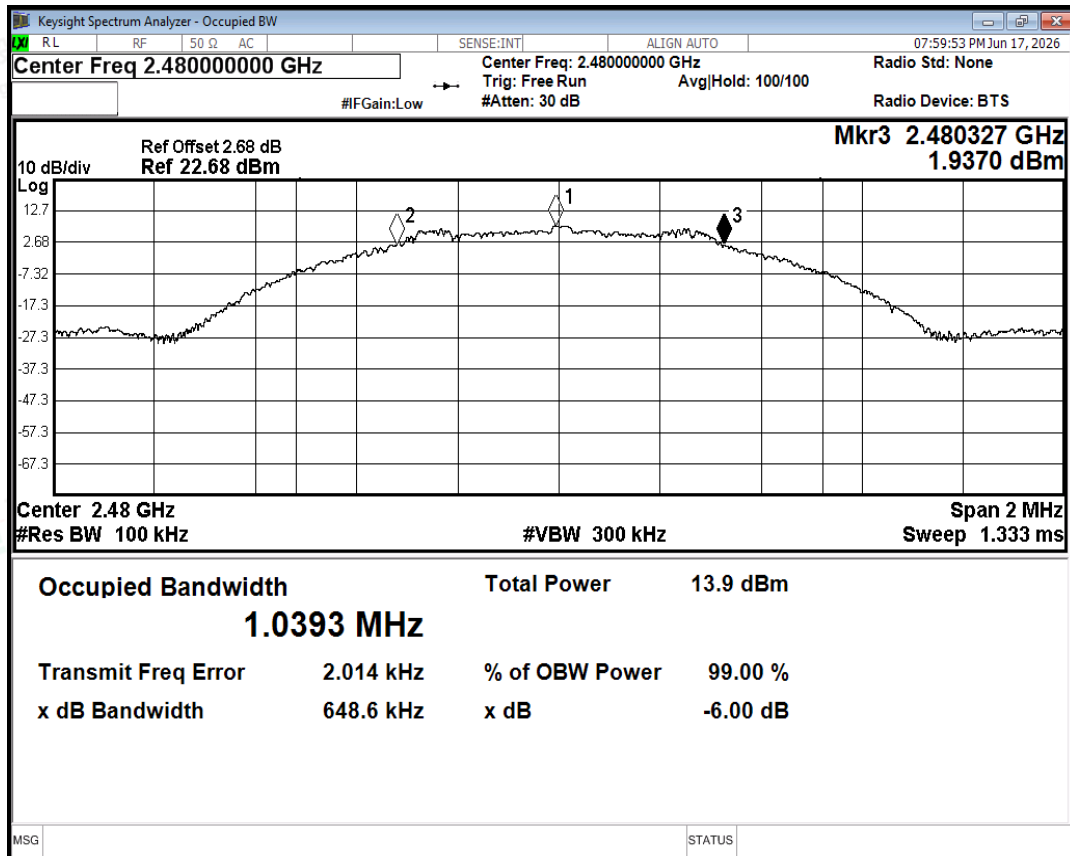


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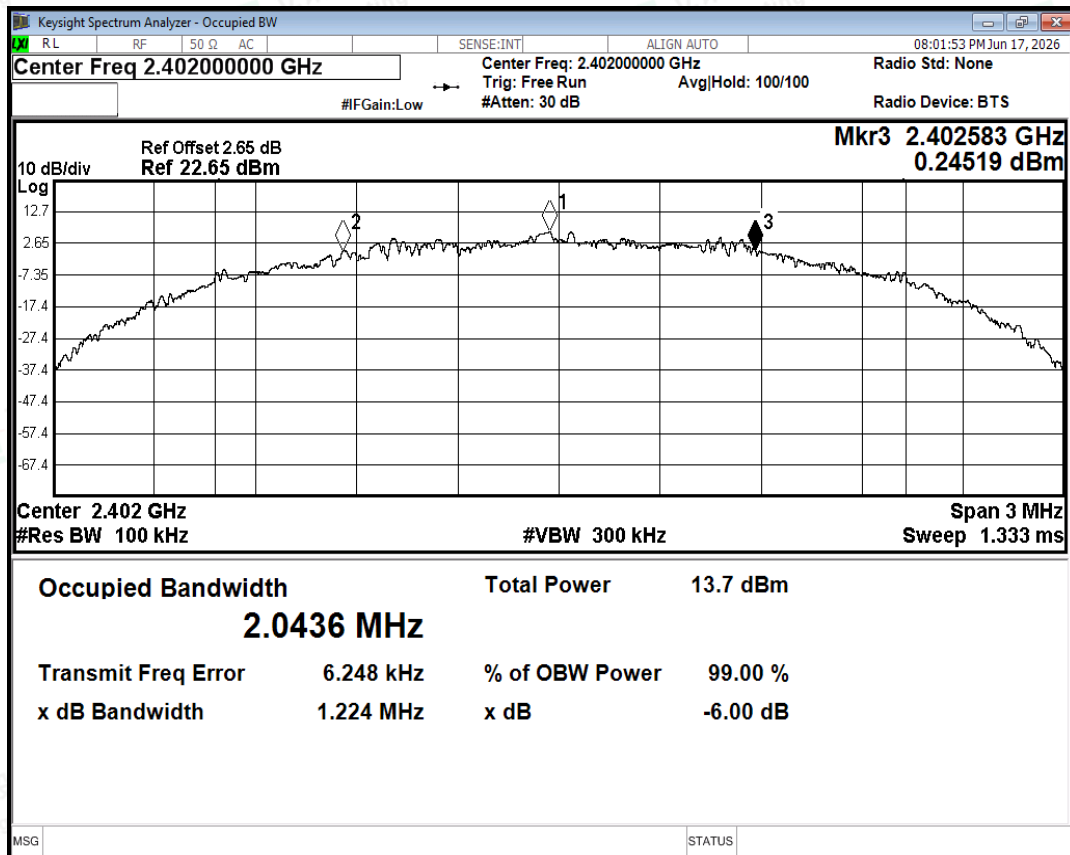
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-6dB Bandwidth NVNT BLE 1M 2480MHz Ant2



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant2

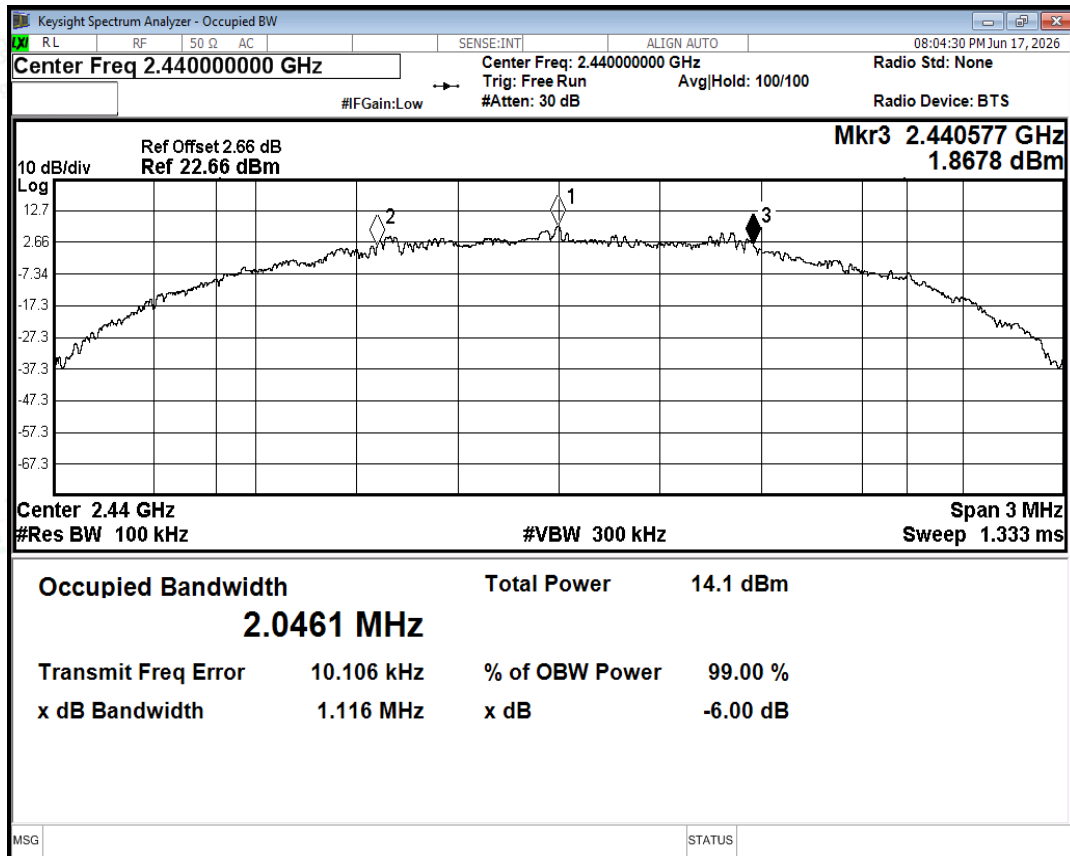


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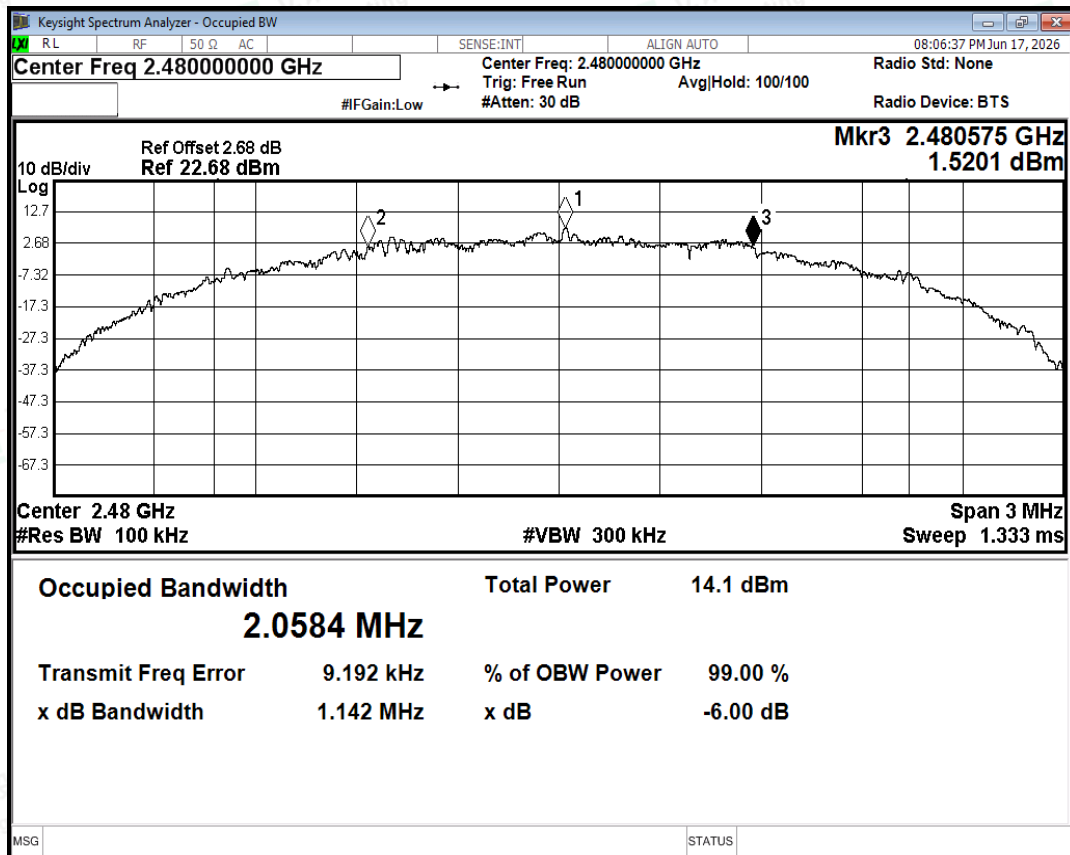
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-6dB Bandwidth NVNT BLE 2M 2440MHz Ant2



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant2



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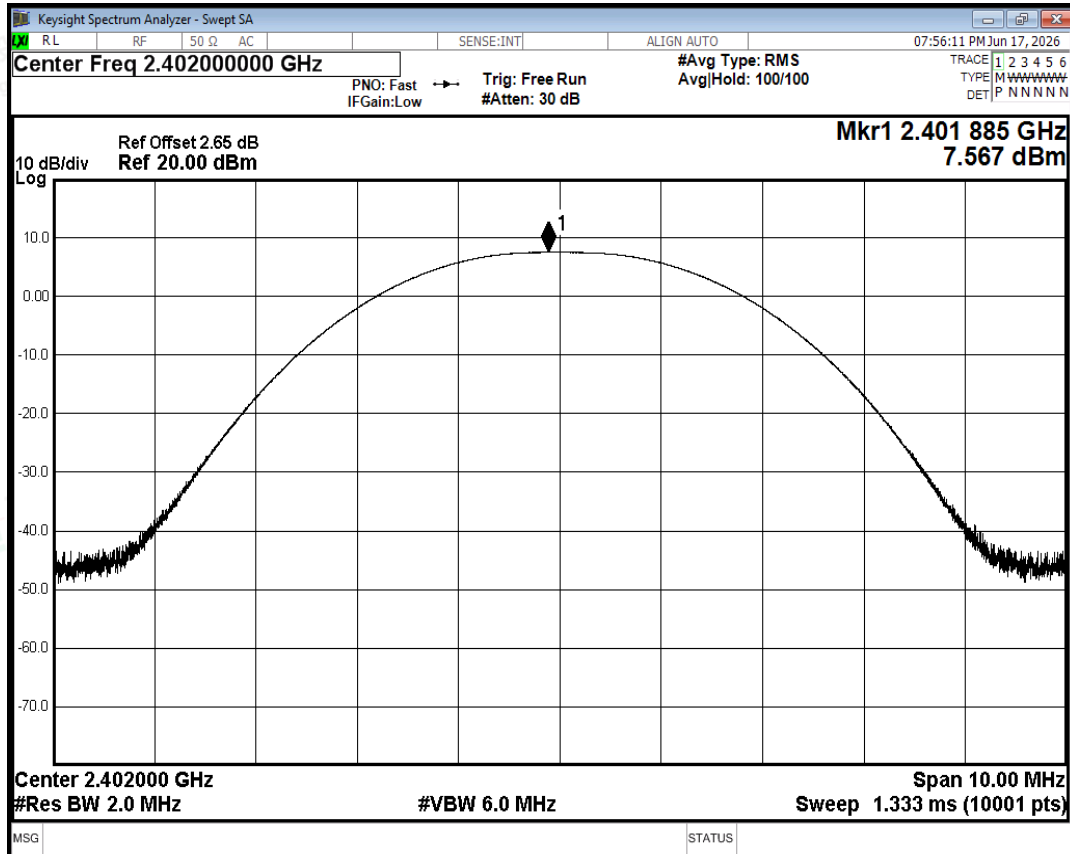
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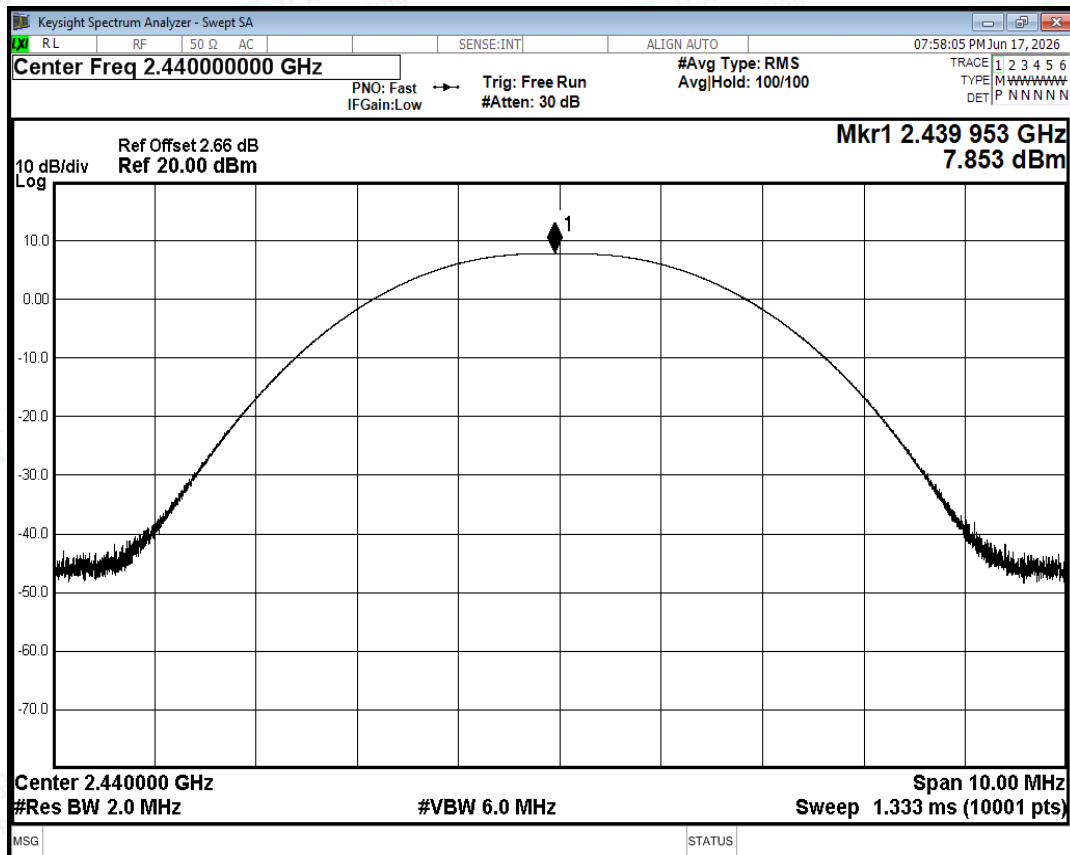
B.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	BLE 1M	2402	Ant2	7.57	30	Pass
NVNT	BLE 1M	2440	Ant2	7.85	30	Pass
NVNT	BLE 1M	2480	Ant2	7.97	30	Pass
NVNT	BLE 2M	2402	Ant2	7.68	30	Pass
NVNT	BLE 2M	2440	Ant2	8.01	30	Pass
NVNT	BLE 2M	2480	Ant2	8.15	30	Pass





Peak Power NVNT BLE 1M 2402MHz Ant2



Peak Power NVNT BLE 1M 2440MHz Ant2

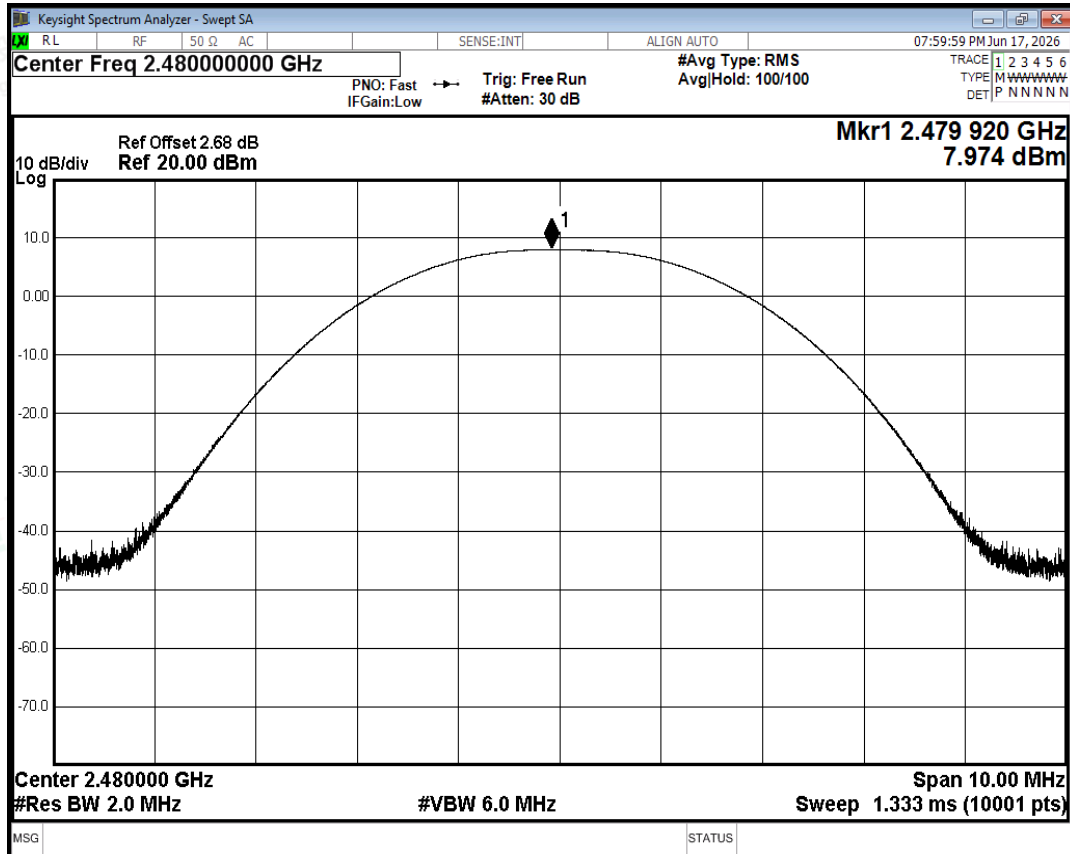


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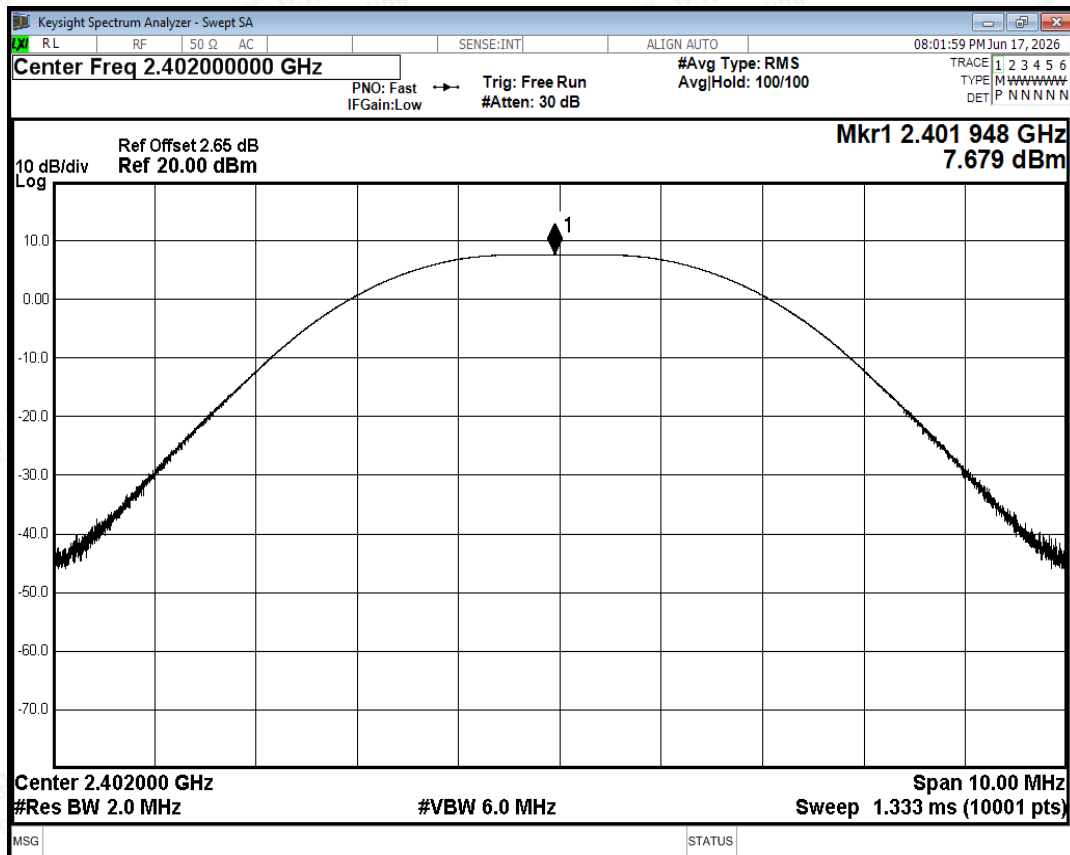
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Peak Power NVNT BLE 1M 2480MHz Ant2



Peak Power NVNT BLE 2M 2402MHz Ant2

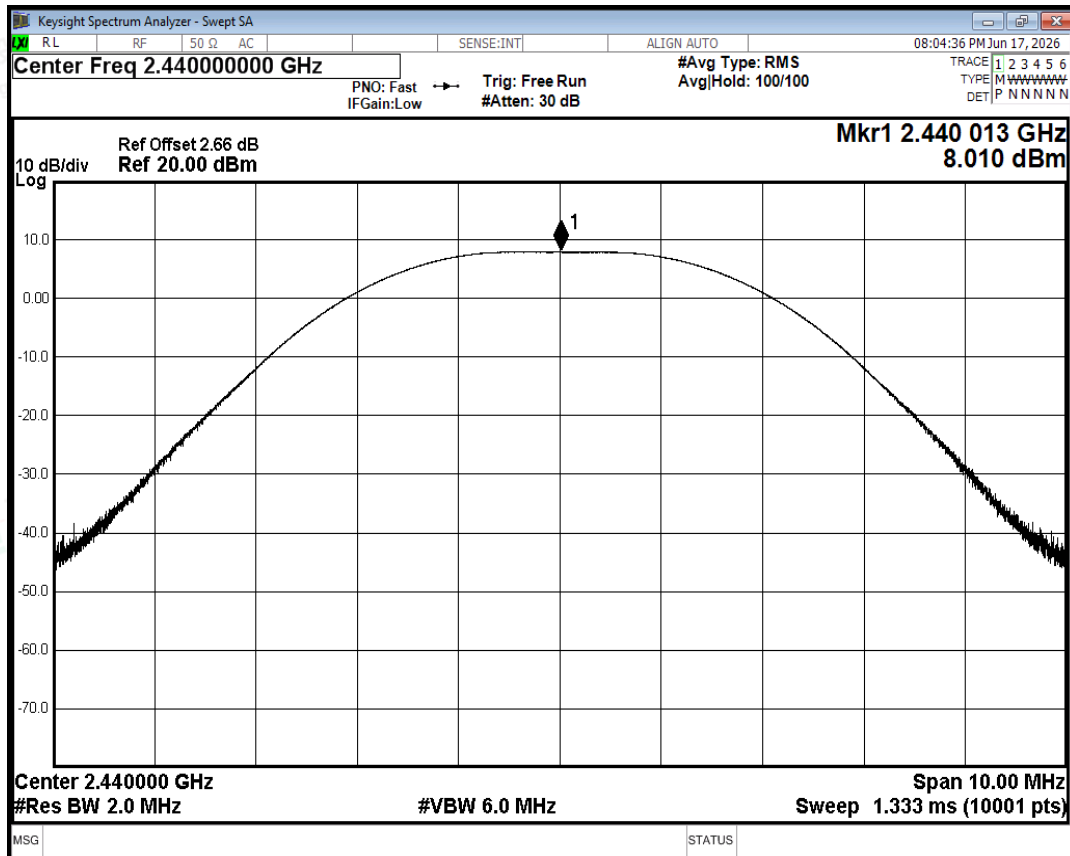


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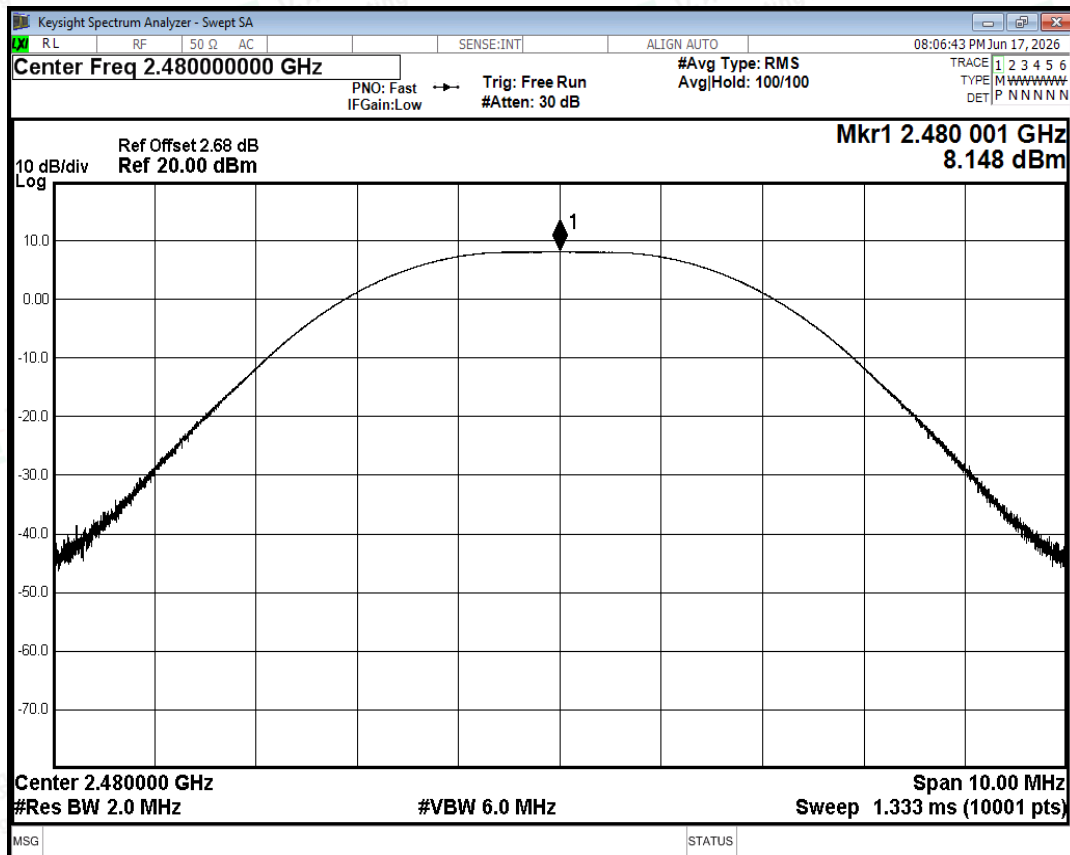
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Peak Power NVNT BLE 2M 2480MHz Ant2



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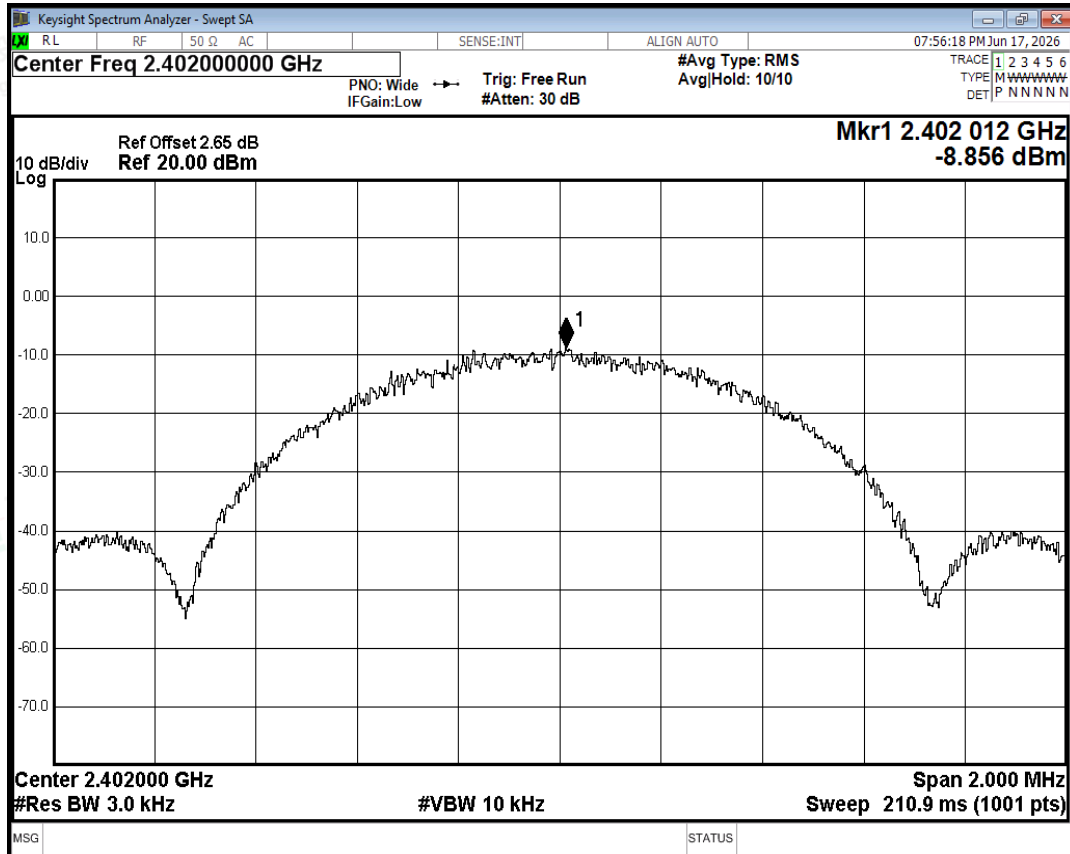
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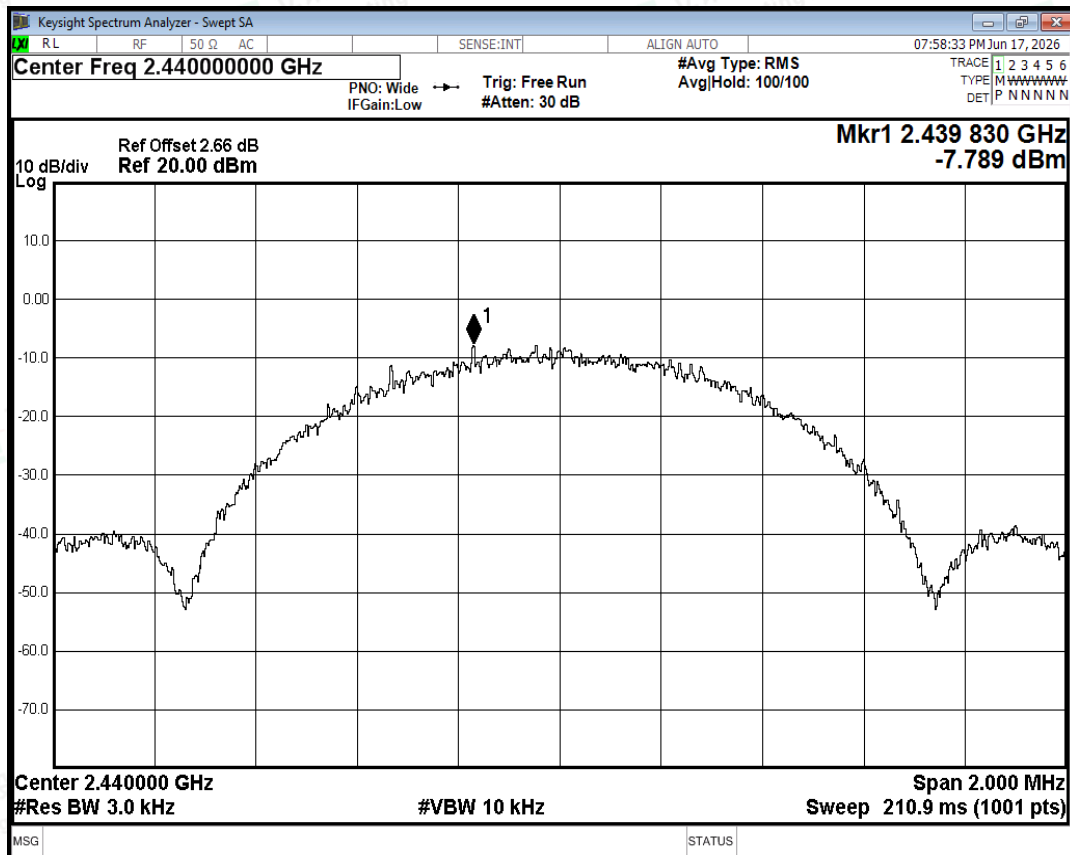
B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant2	-8.86	8	Pass
NVNT	BLE 1M	2440	Ant2	-7.79	8	Pass
NVNT	BLE 1M	2480	Ant2	-7.41	8	Pass
NVNT	BLE 2M	2402	Ant2	-9.23	8	Pass
NVNT	BLE 2M	2440	Ant2	-9.23	8	Pass
NVNT	BLE 2M	2480	Ant2	-9.92	8	Pass





PSD NVNT BLE 1M 2402MHz Ant2



PSD NVNT BLE 1M 2440MHz Ant2

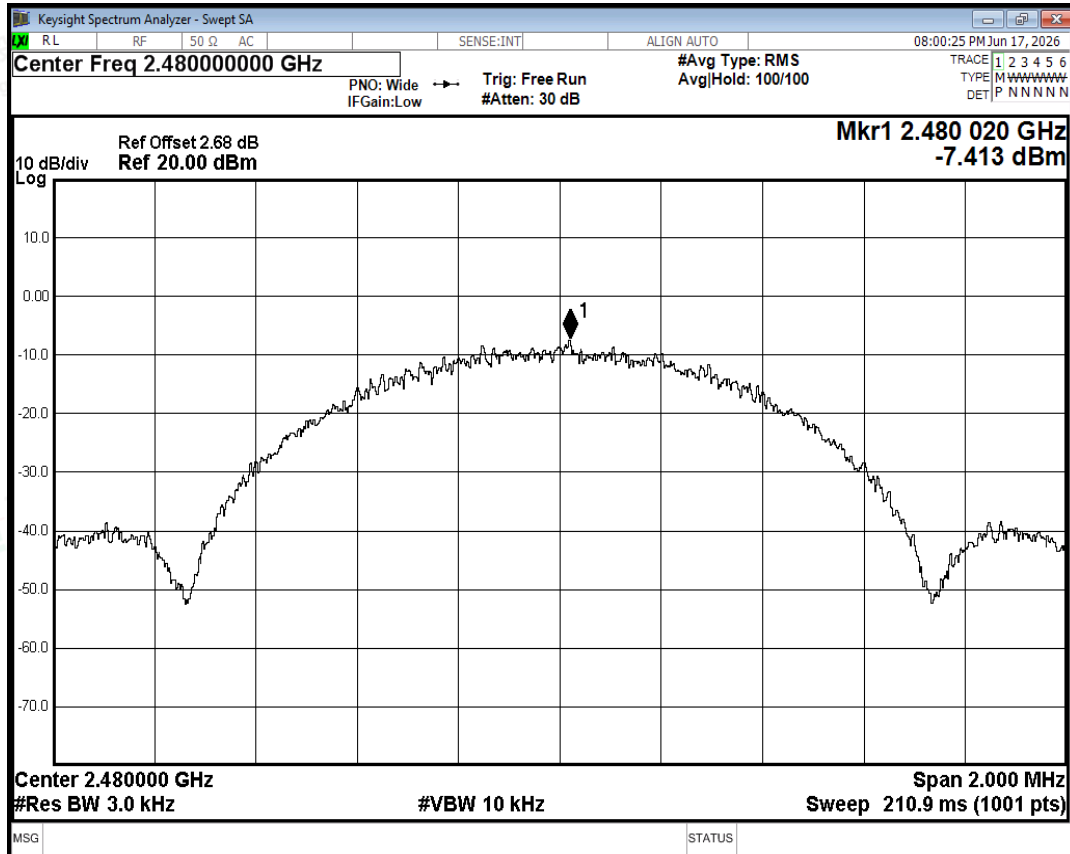


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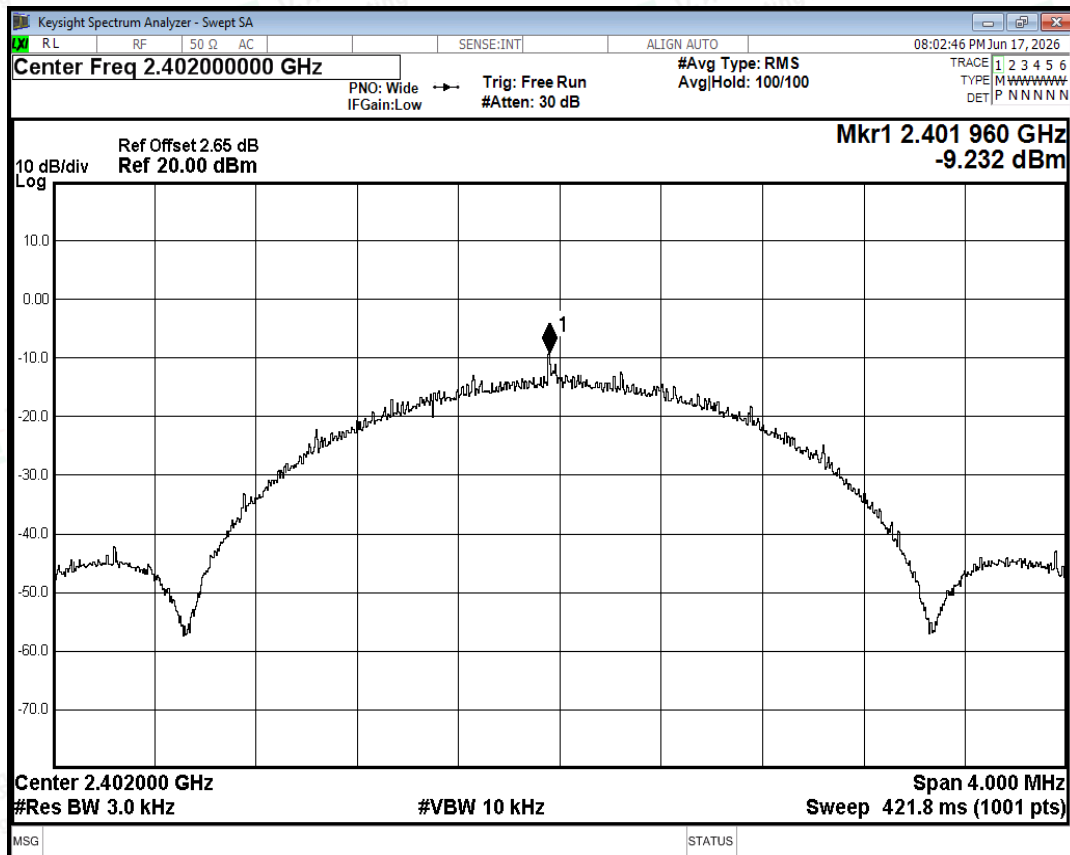
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PSD NVNT BLE 1M 2480MHz Ant2



PSD NVNT BLE 2M 2402MHz Ant2

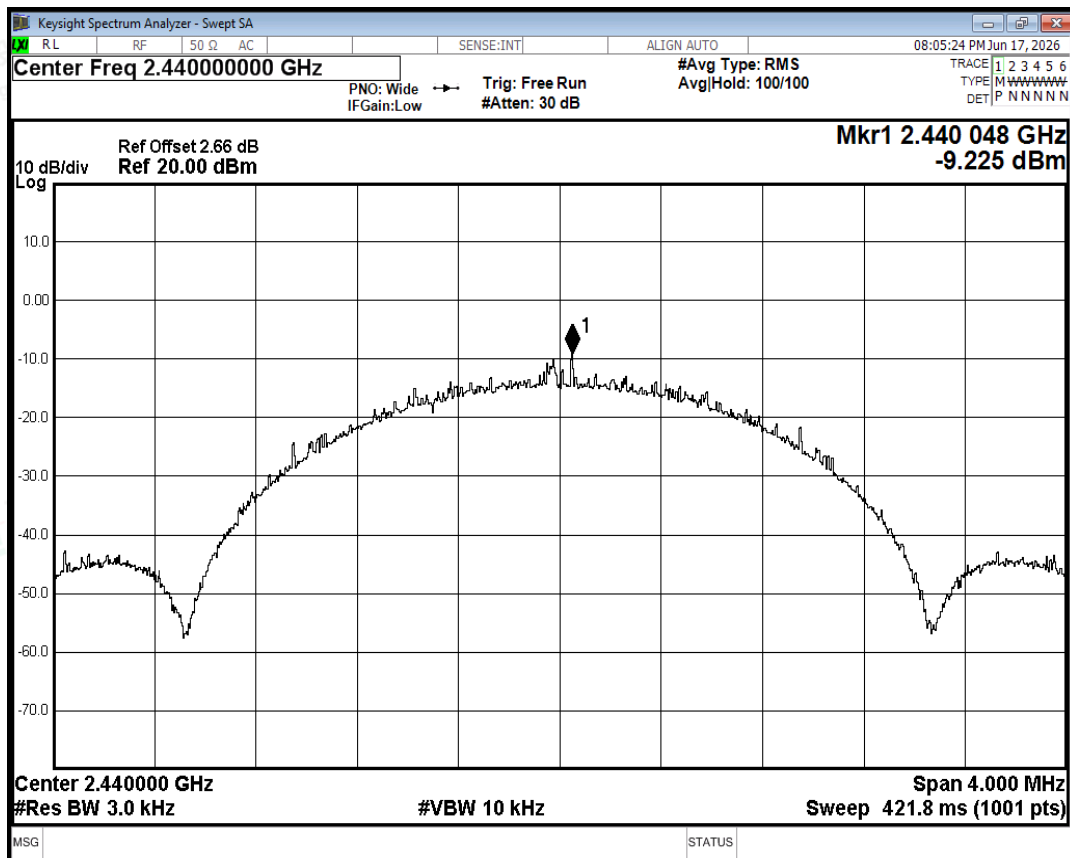


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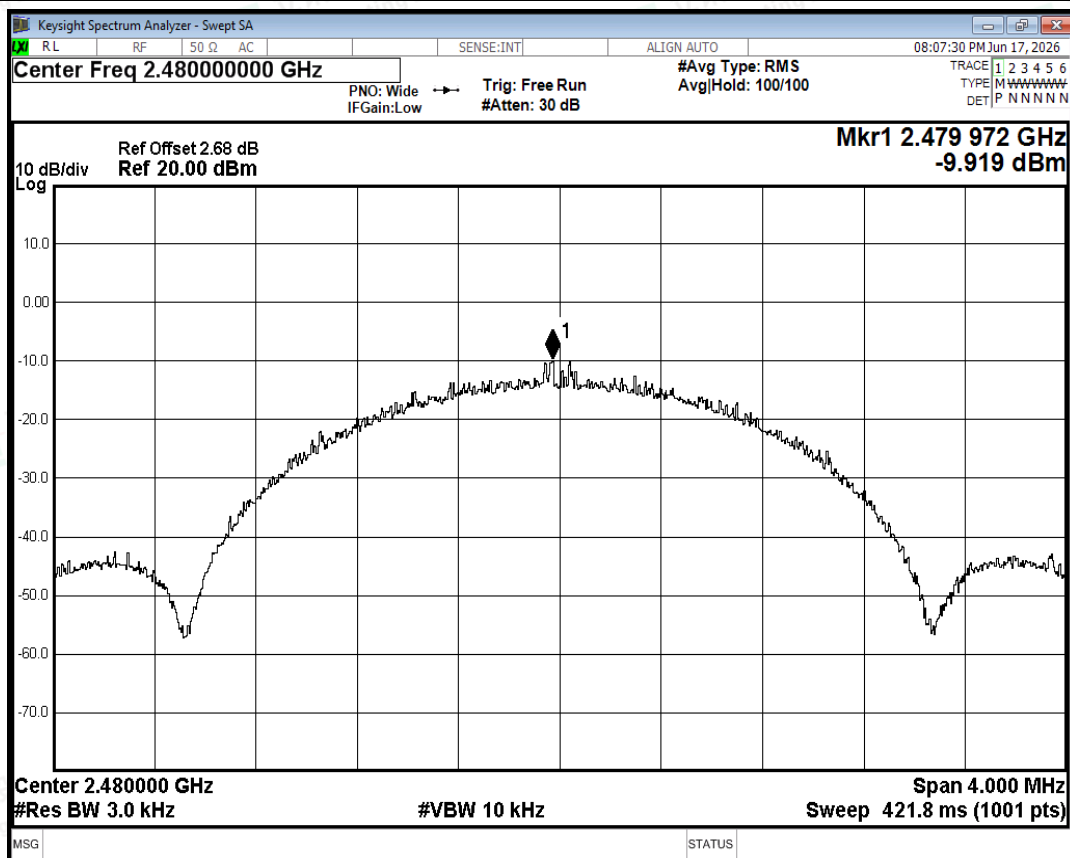
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PSD NVNT BLE 2M 2440MHz Ant2



PSD NVNT BLE 2M 2480MHz Ant2



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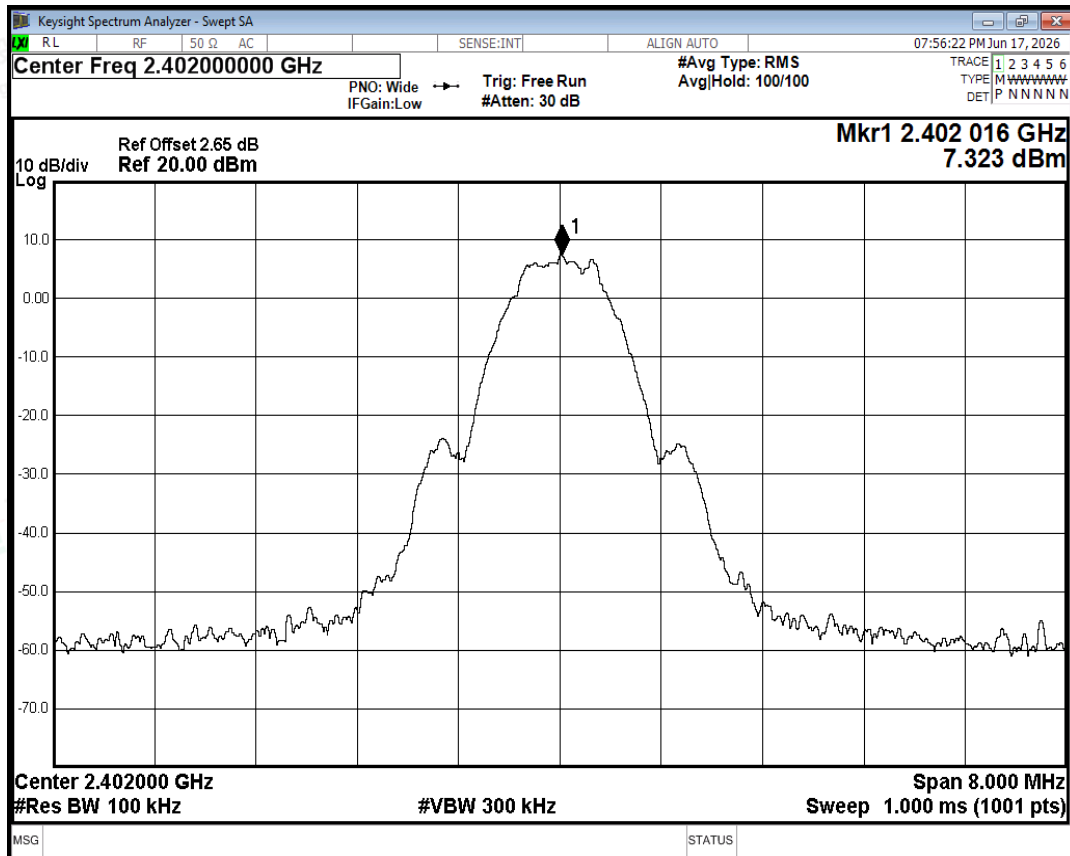
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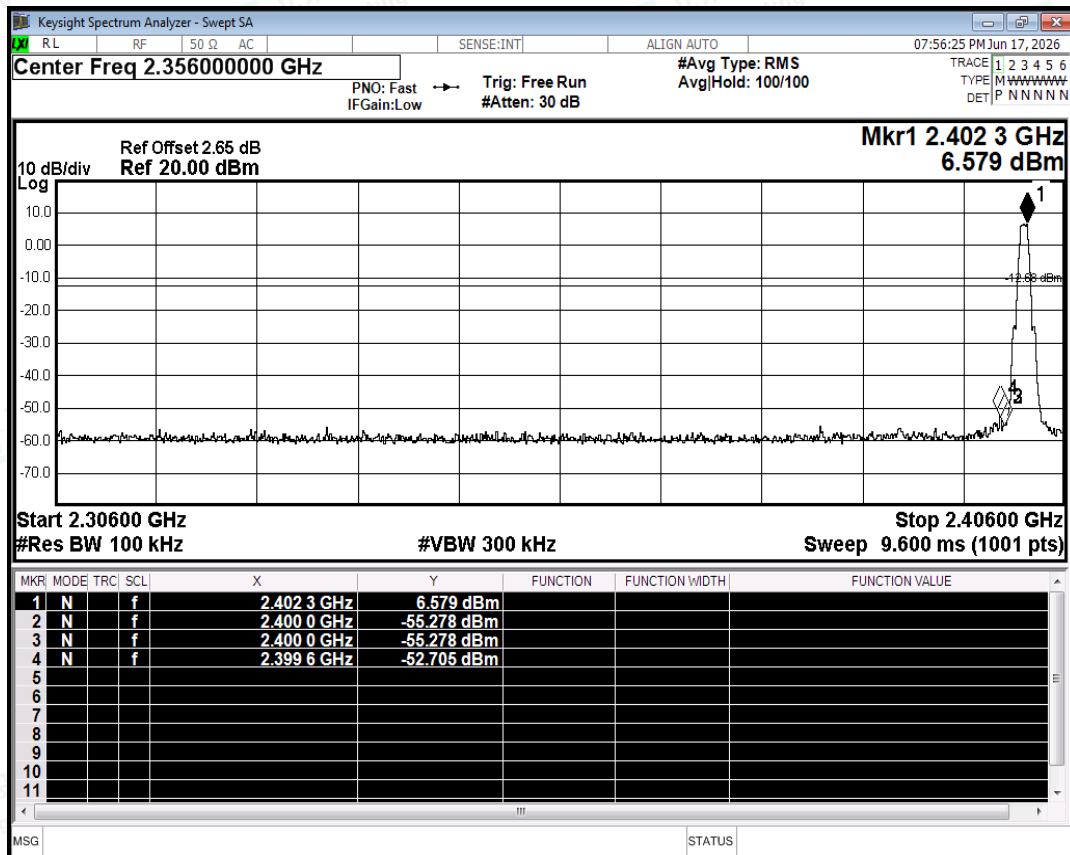
B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant2	-60.02	-20	Pass
NVNT	BLE 1M	2480	Ant2	-62.98	-20	Pass
NVNT	BLE 2M	2402	Ant2	-31.49	-20	Pass
NVNT	BLE 2M	2480	Ant2	-58.77	-20	Pass





Band Edge NVNT BLE 1M 2402MHz Ant2 Ref



Band Edge NVNT BLE 1M 2402MHz Ant2 Emission

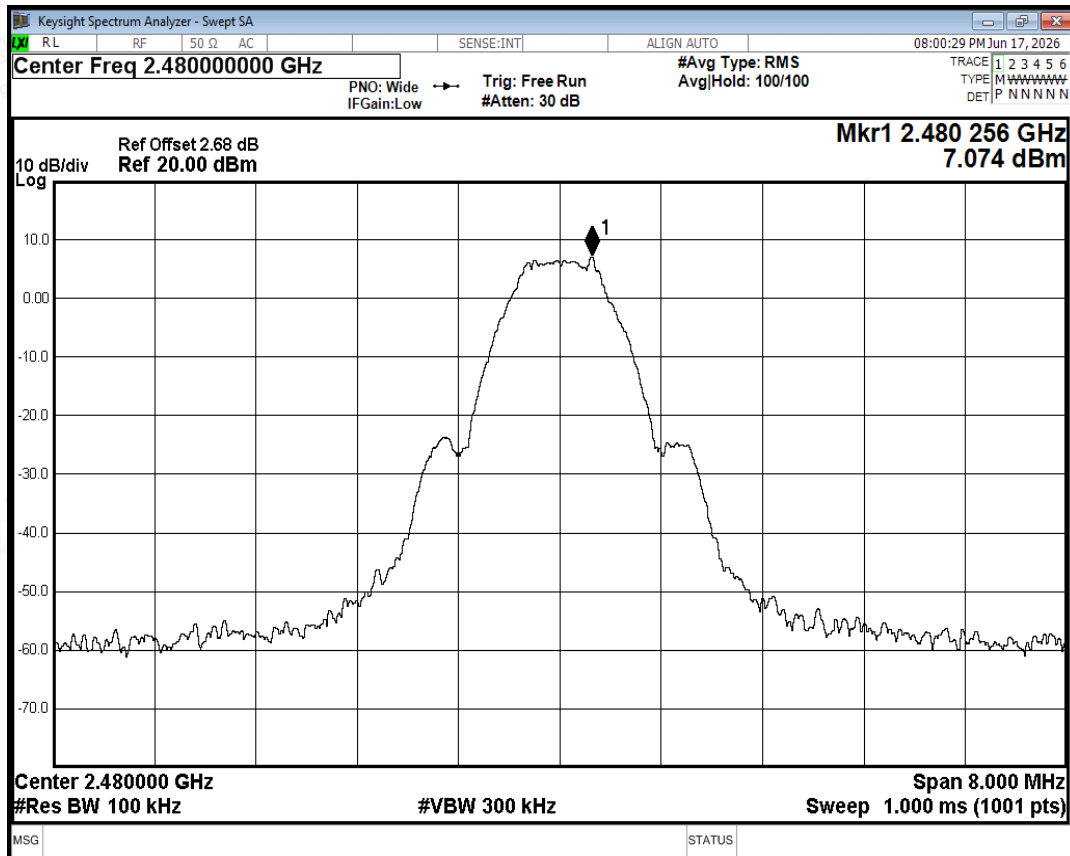


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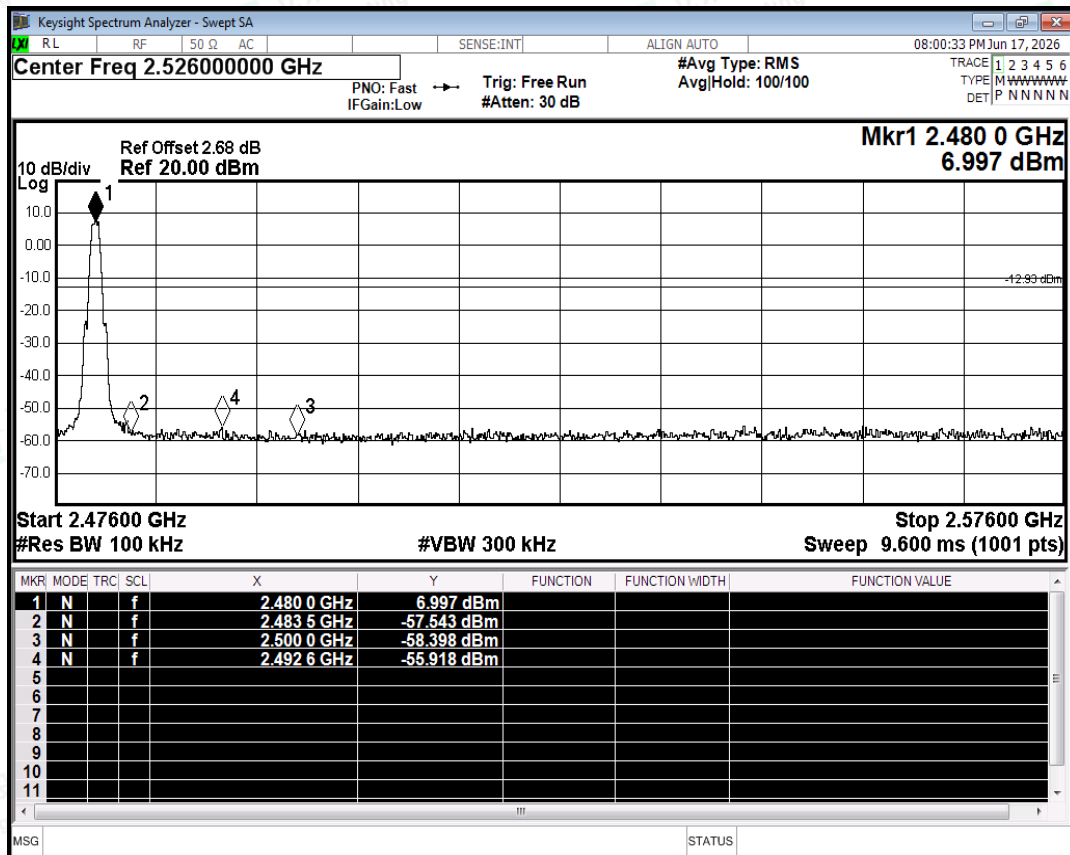
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Band Edge NVNT BLE 1M 2480MHz Ant2 Ref



Band Edge NVNT BLE 1M 2480MHz Ant2 Emission

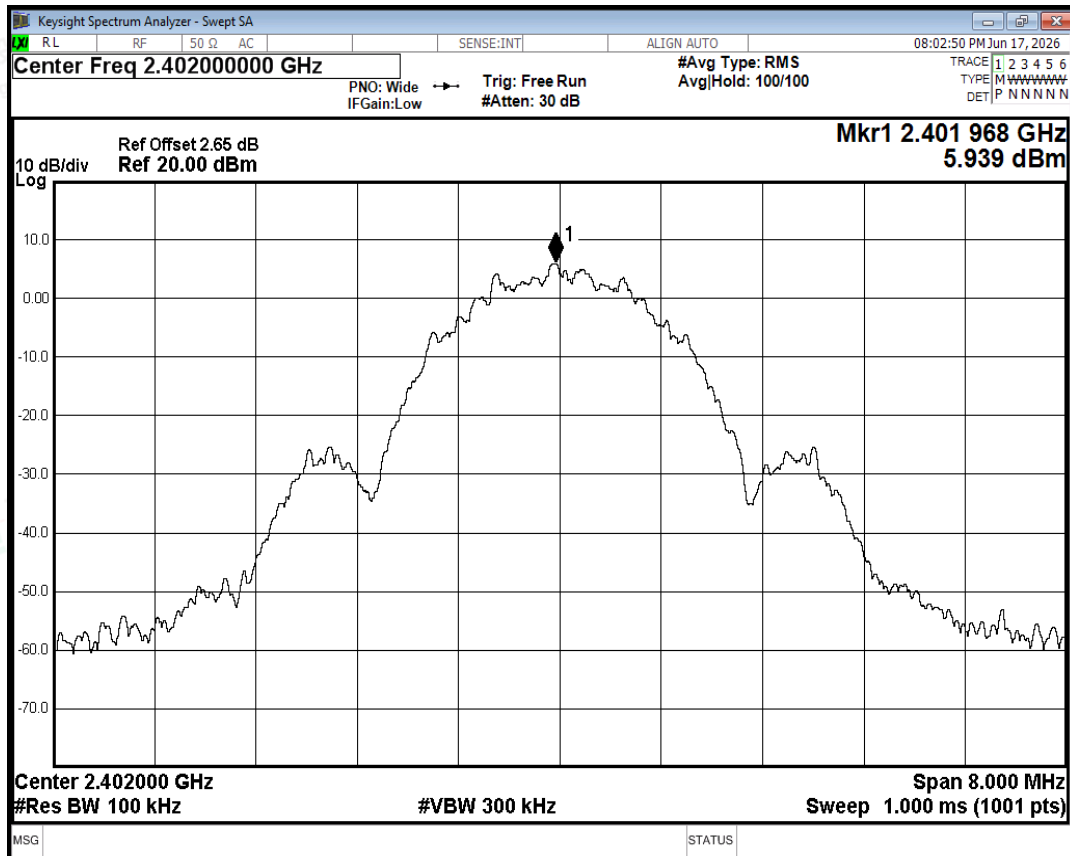


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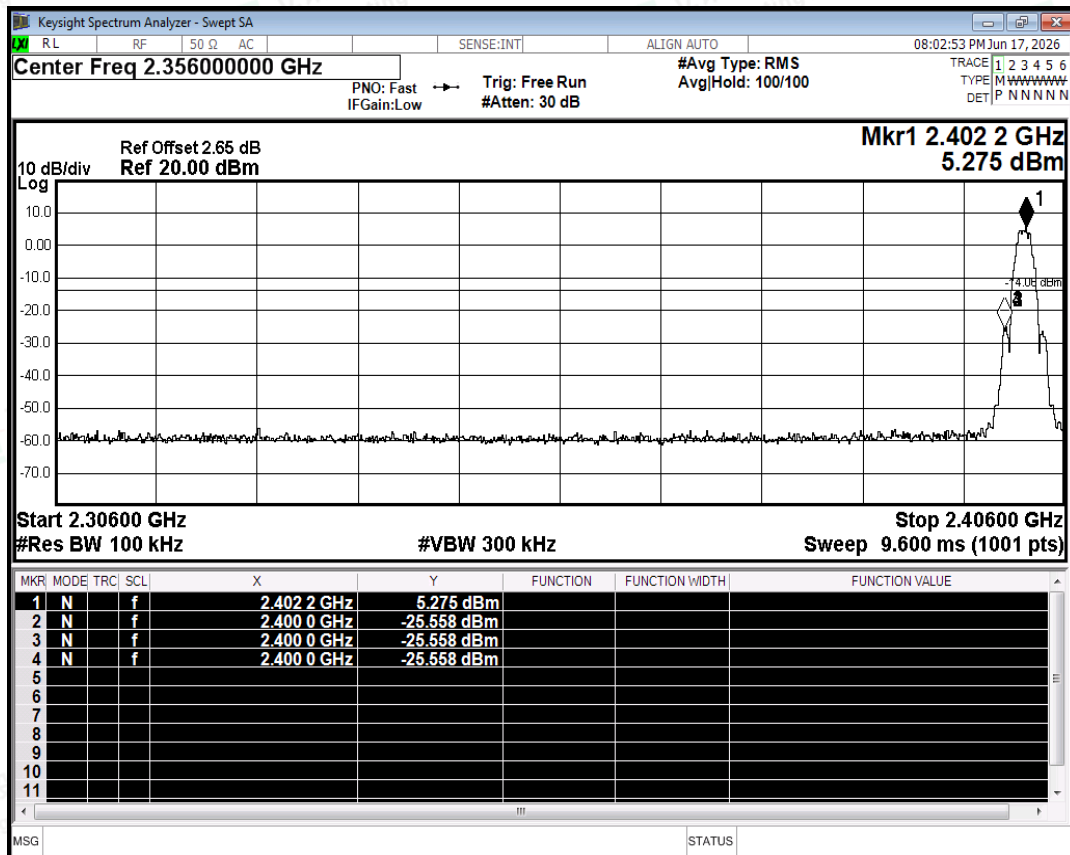
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Band Edge NVNT BLE 2M 2402MHz Ant2 Ref



Band Edge NVNT BLE 2M 2402MHz Ant2 Emission

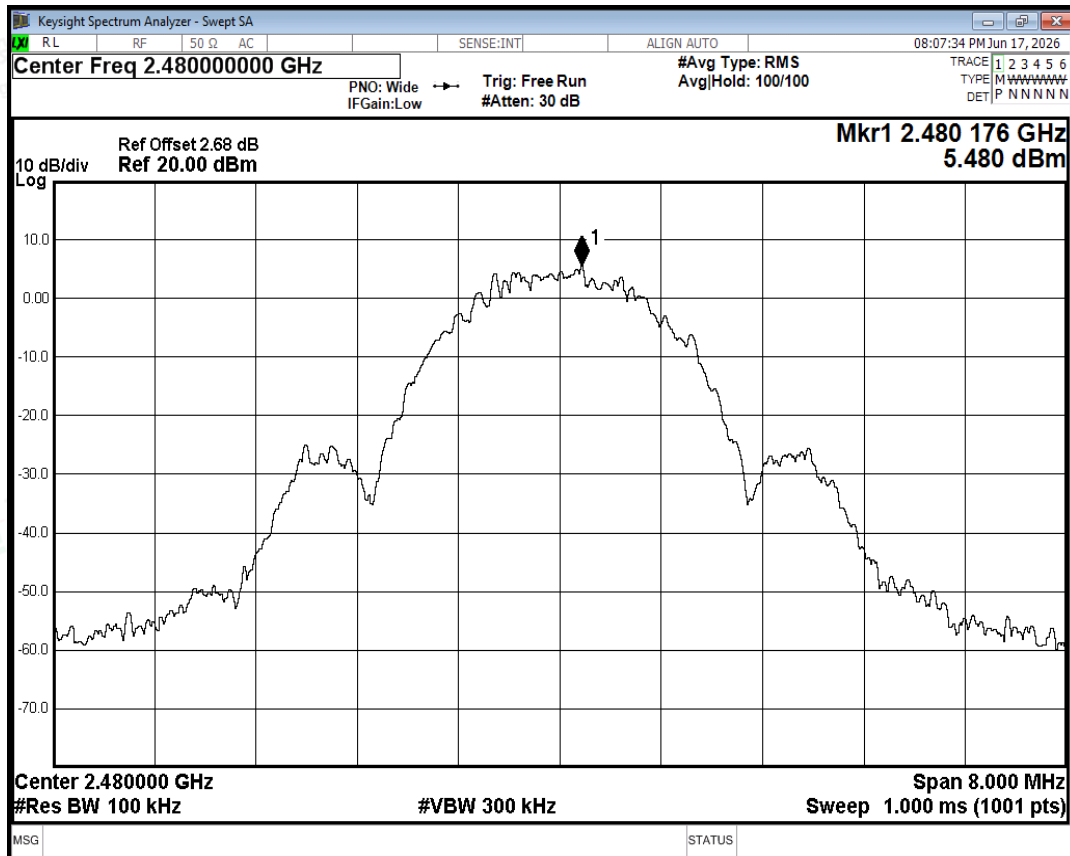


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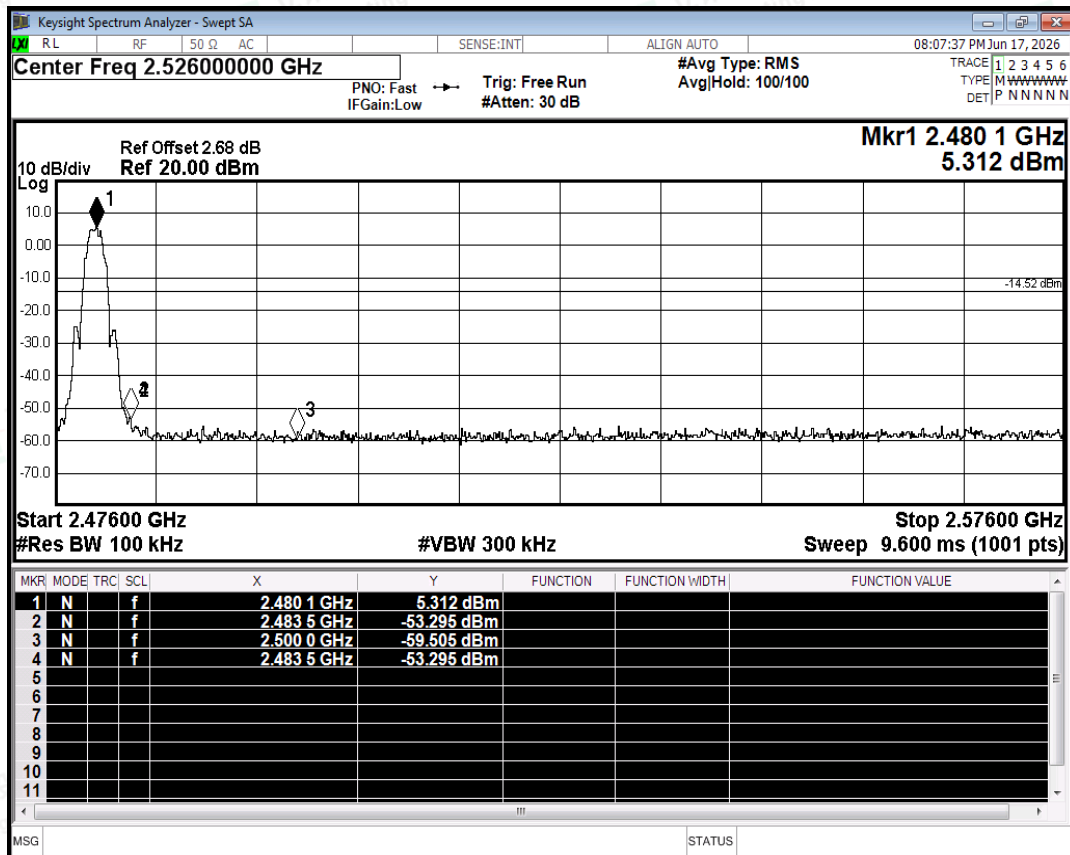
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Band Edge NVNT BLE 2M 2480MHz Ant2 Ref



Band Edge NVNT BLE 2M 2480MHz Ant2 Emission



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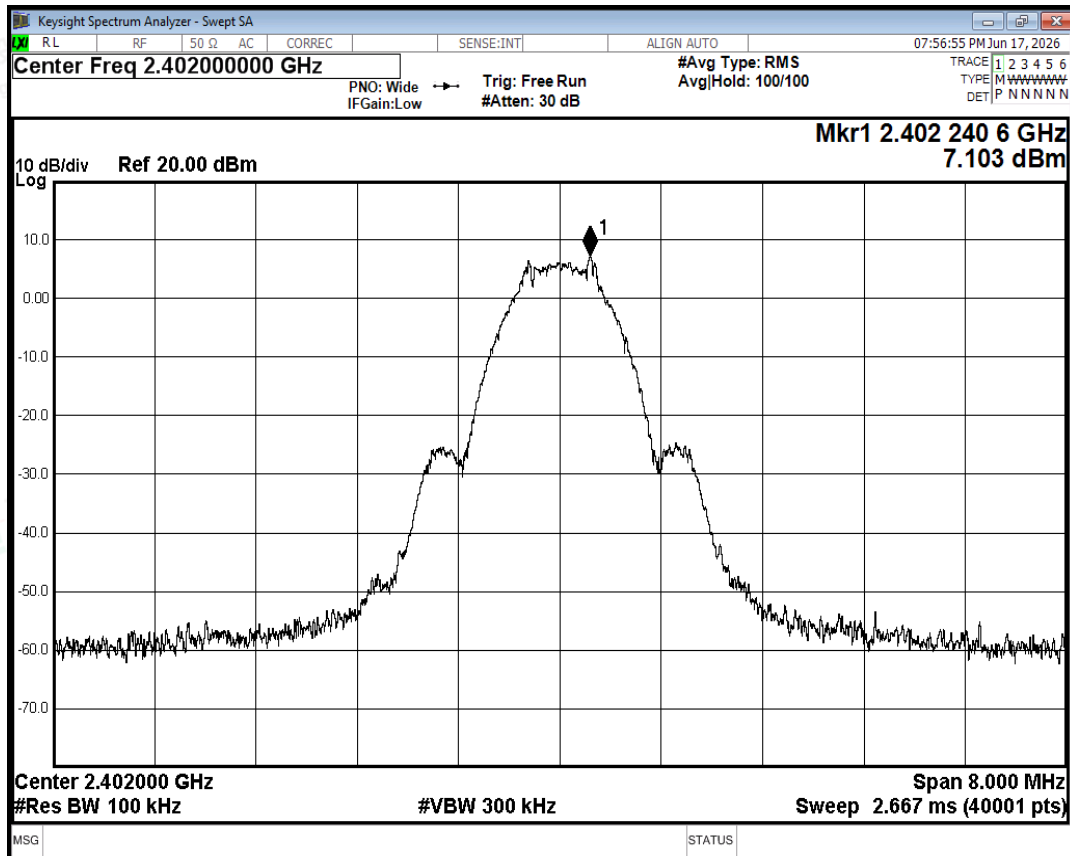
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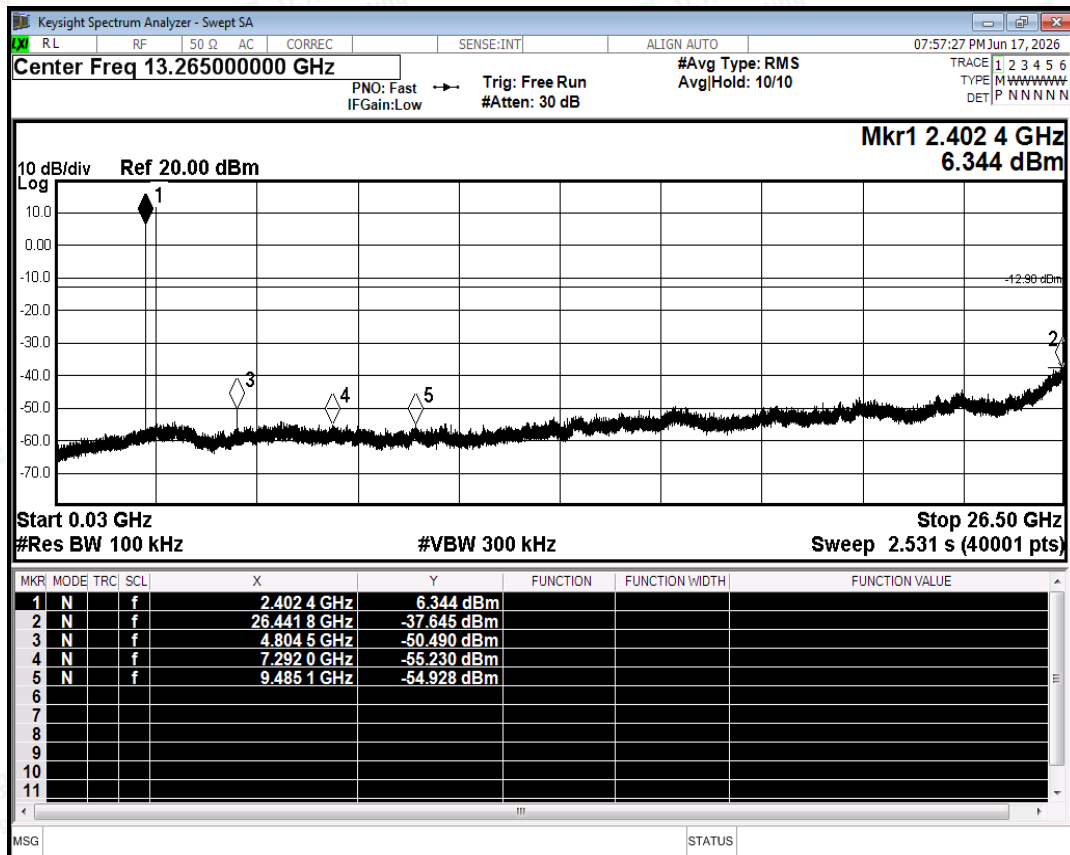
B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant2	-44.74	-20	Pass
NVNT	BLE 1M	2440	Ant2	-44.91	-20	Pass
NVNT	BLE 1M	2480	Ant2	-45.03	-20	Pass
NVNT	BLE 2M	2402	Ant2	-53.08	-20	Pass
NVNT	BLE 2M	2440	Ant2	-51.33	-20	Pass
NVNT	BLE 2M	2480	Ant2	-52.76	-20	Pass





Tx. Spurious NVNT BLE 1M 2402MHz Ant2 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant2 Emission

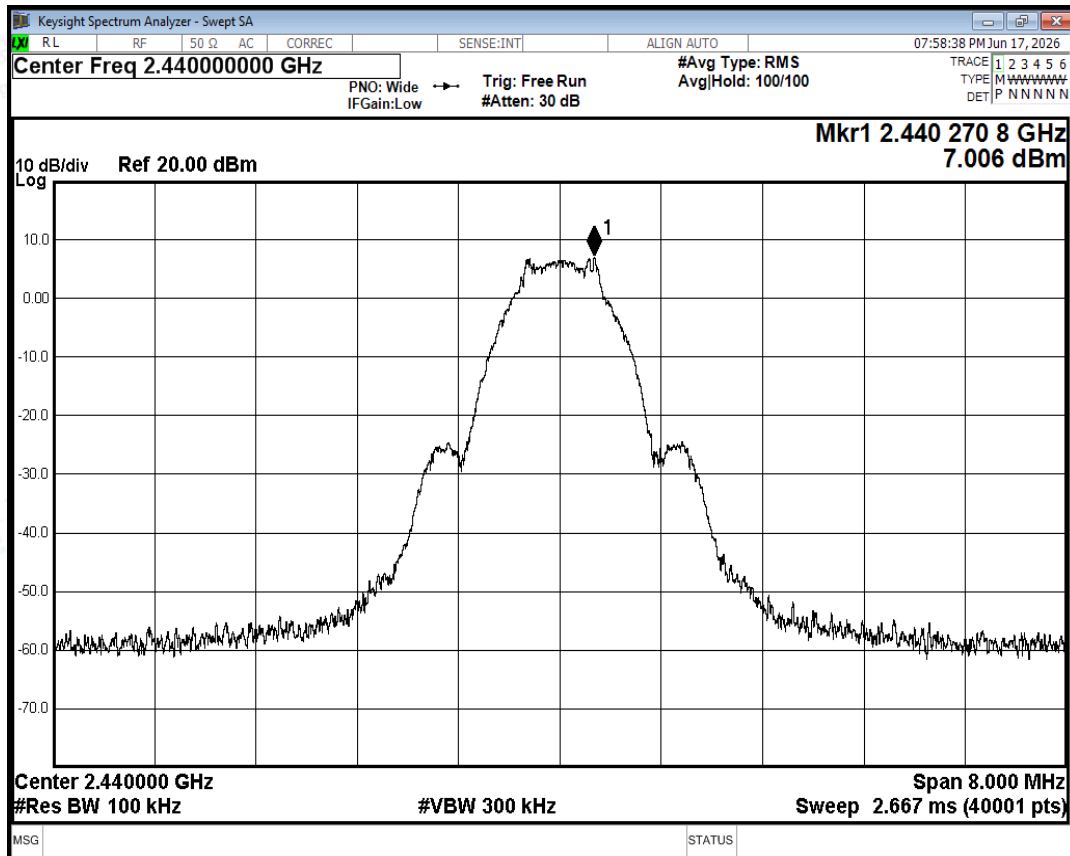


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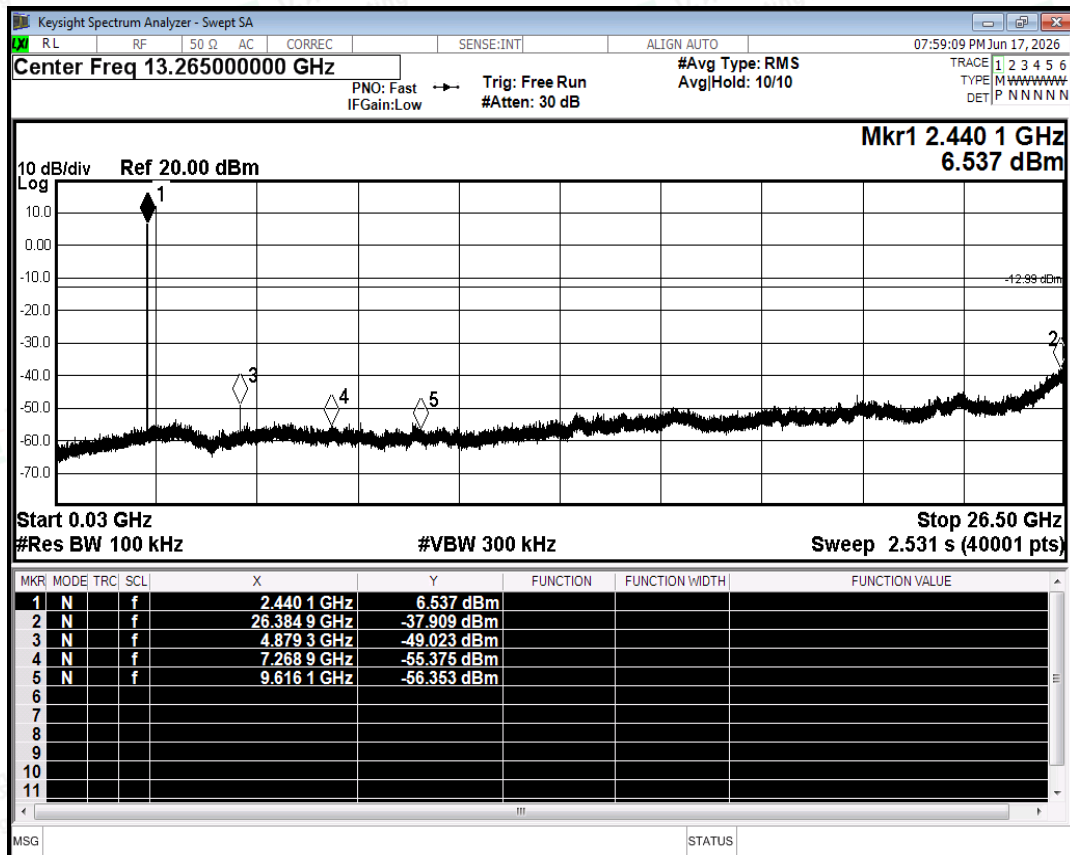
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Tx. Spurious NVNT BLE 1M 2440MHz Ant2 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant2 Emission

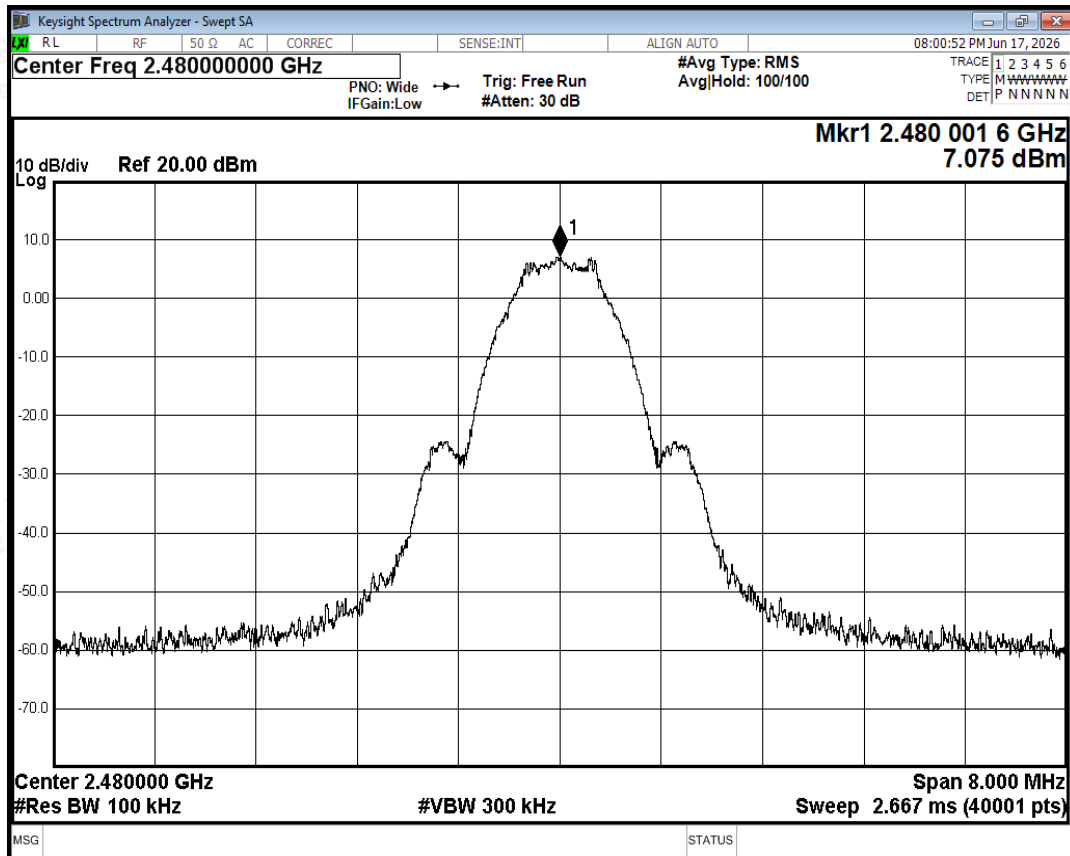


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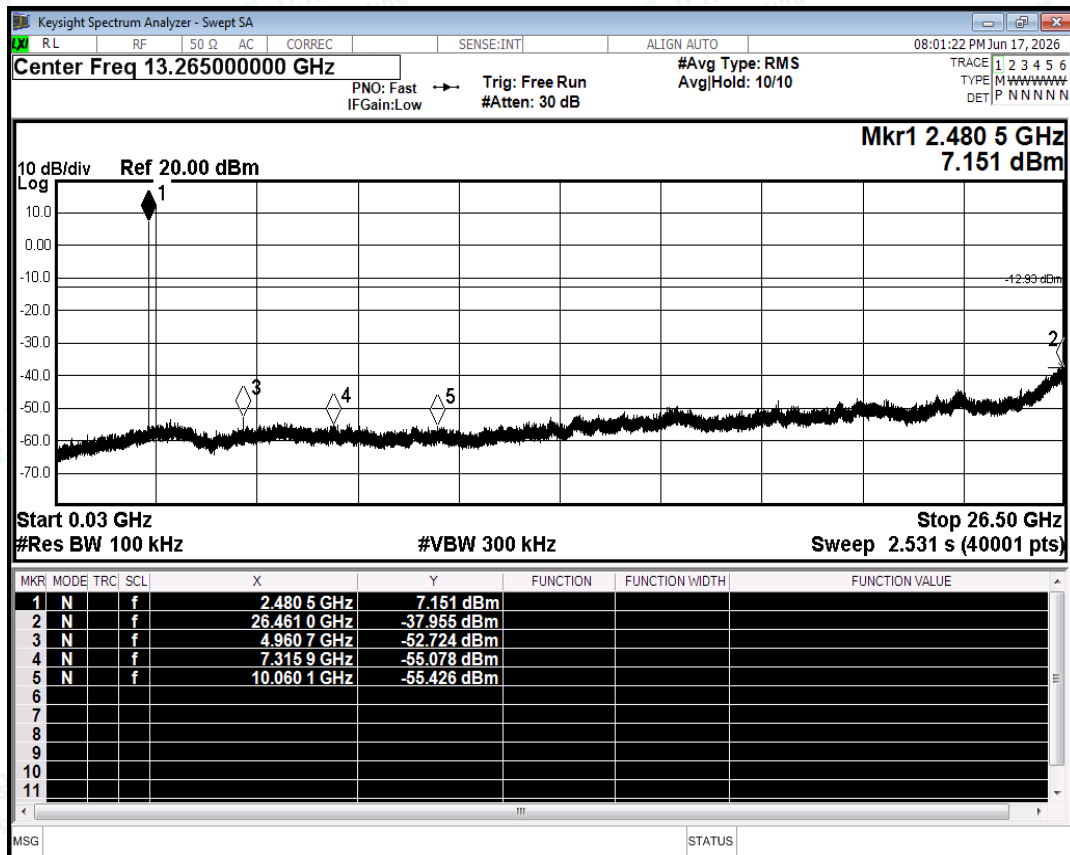
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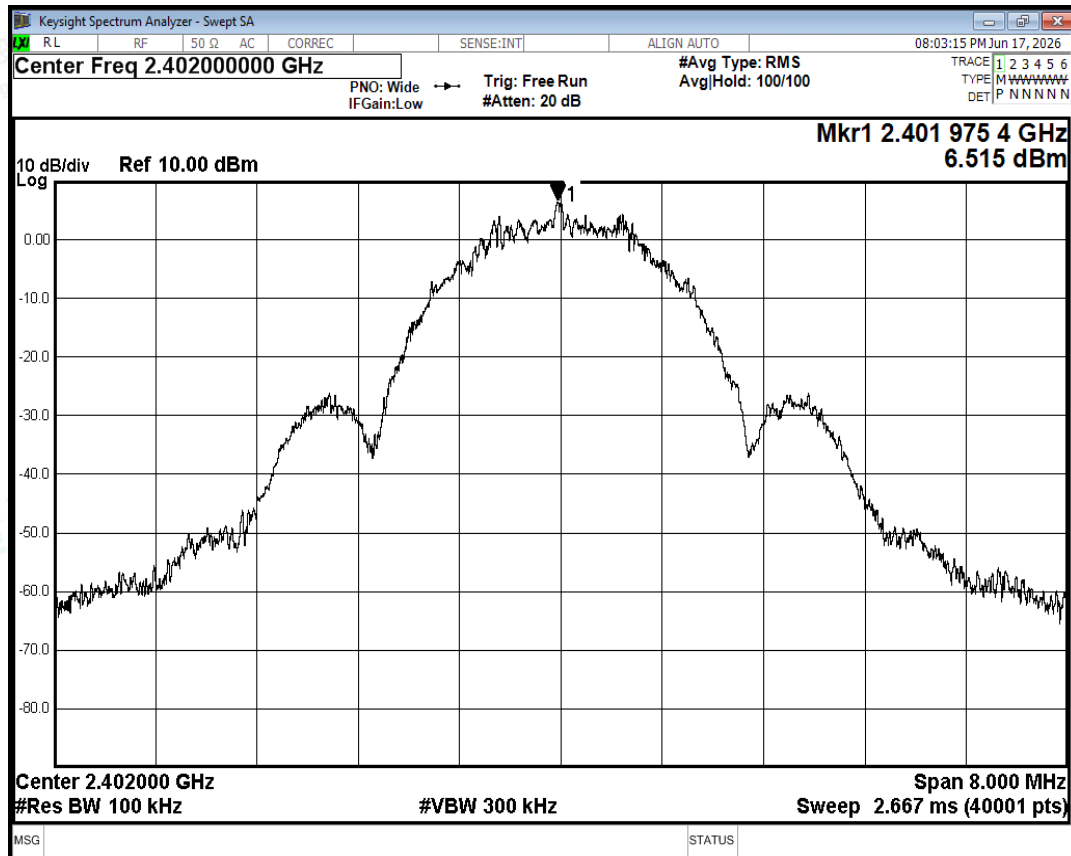


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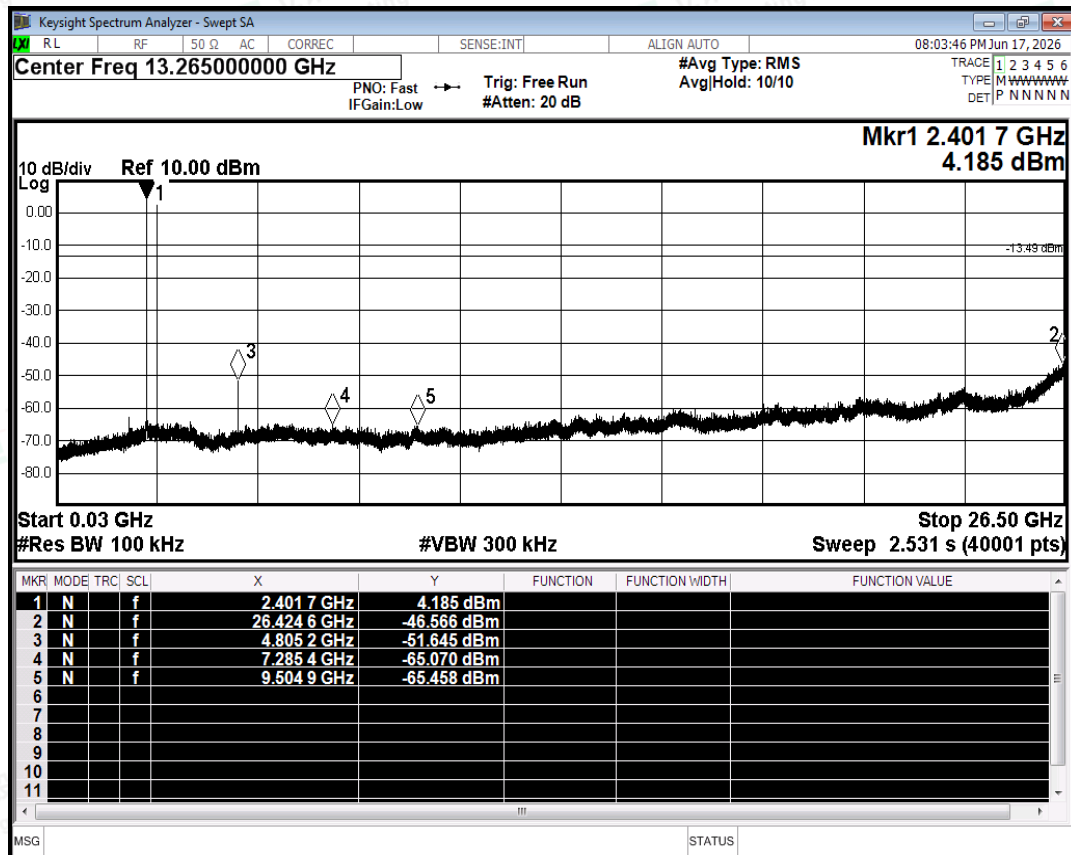
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Tx. Spurious NVNT BLE 2M 2402MHz Ant2 Emission

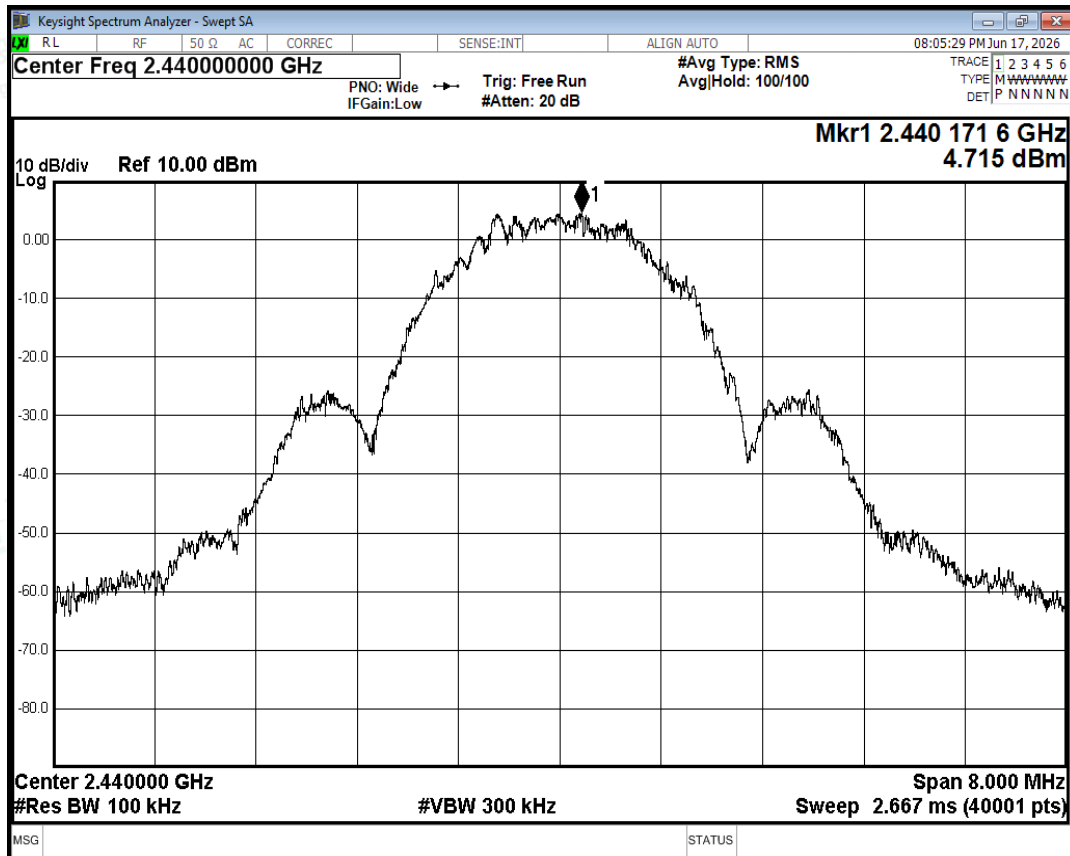


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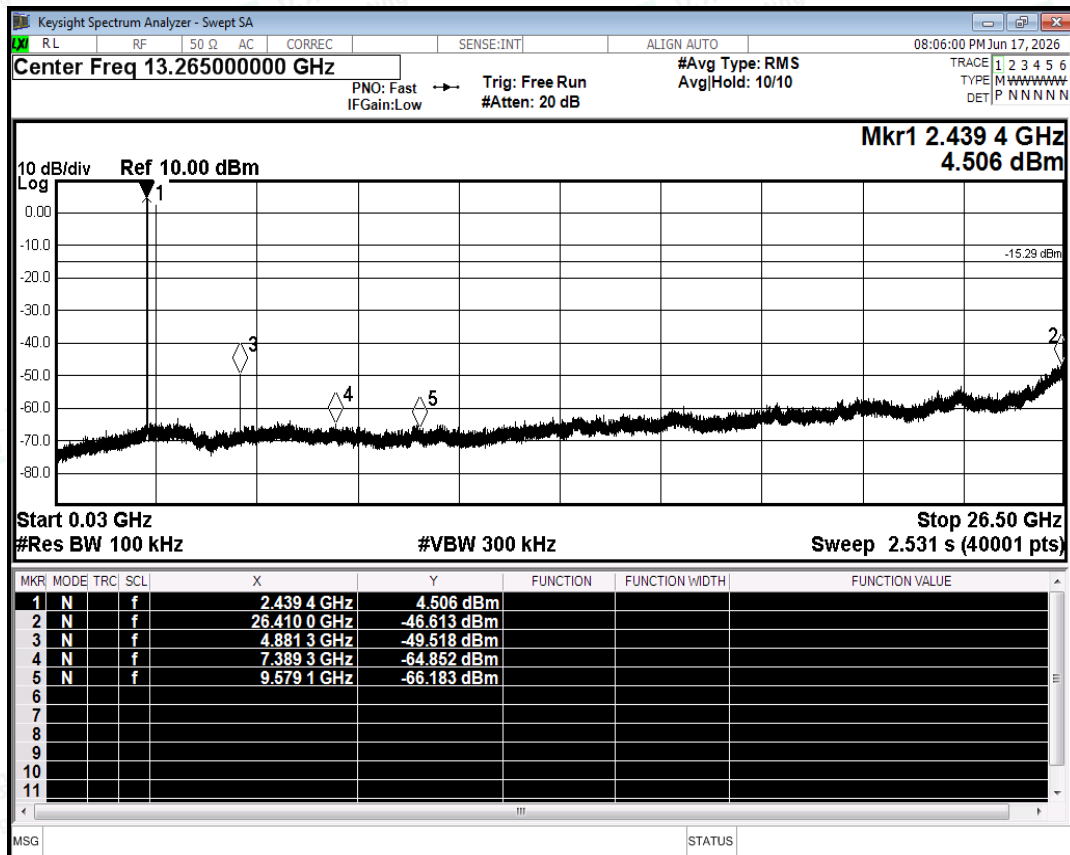
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Tx. Spurious NVNT BLE 2M 2440MHz Ant2 Emission

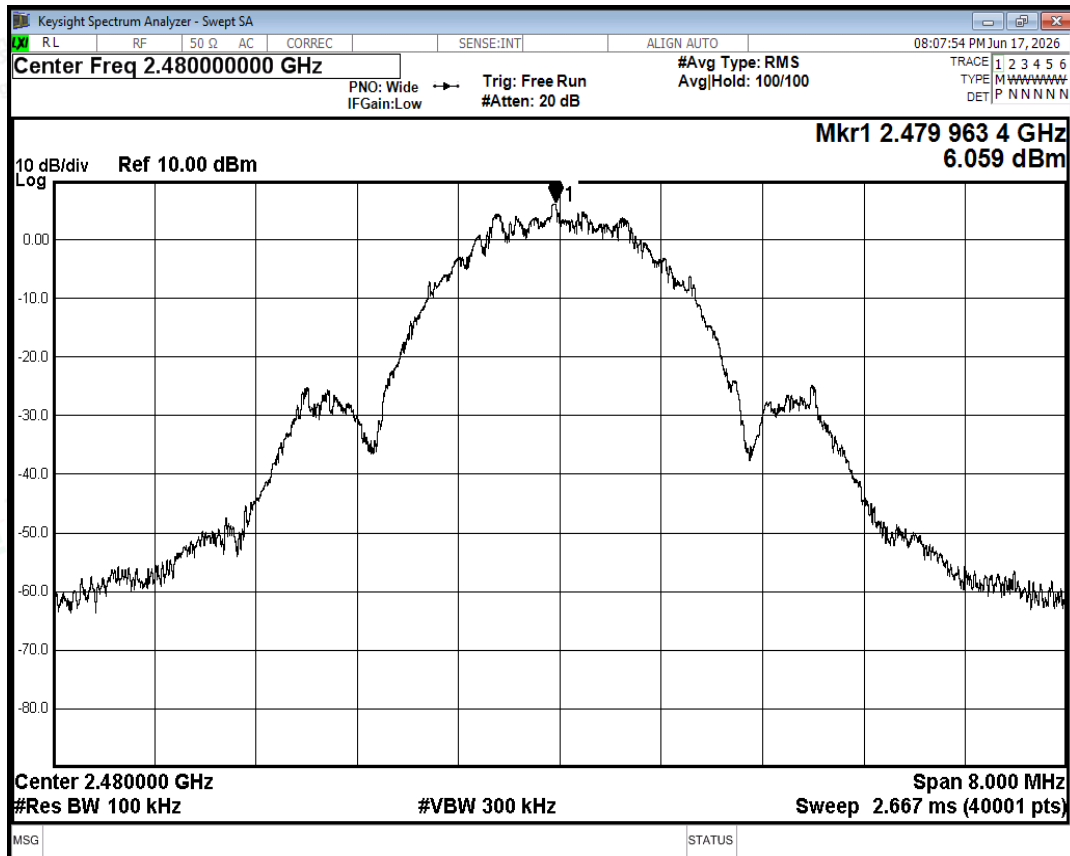


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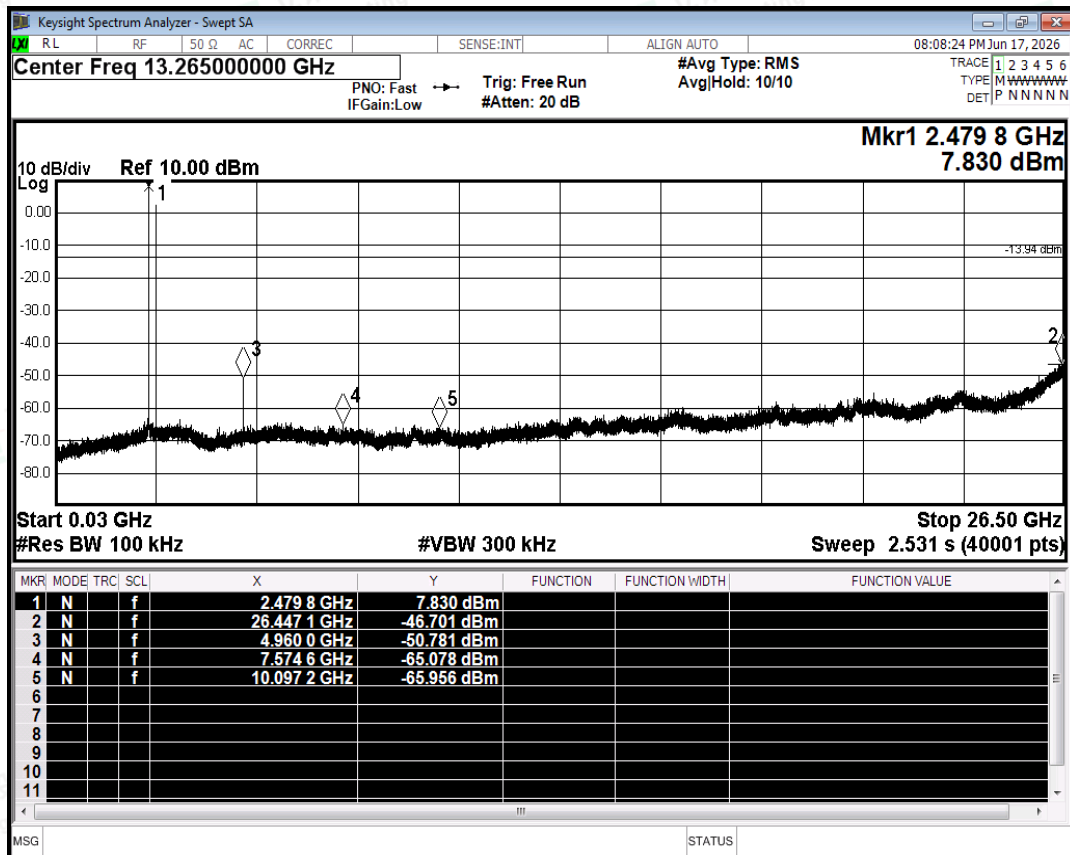
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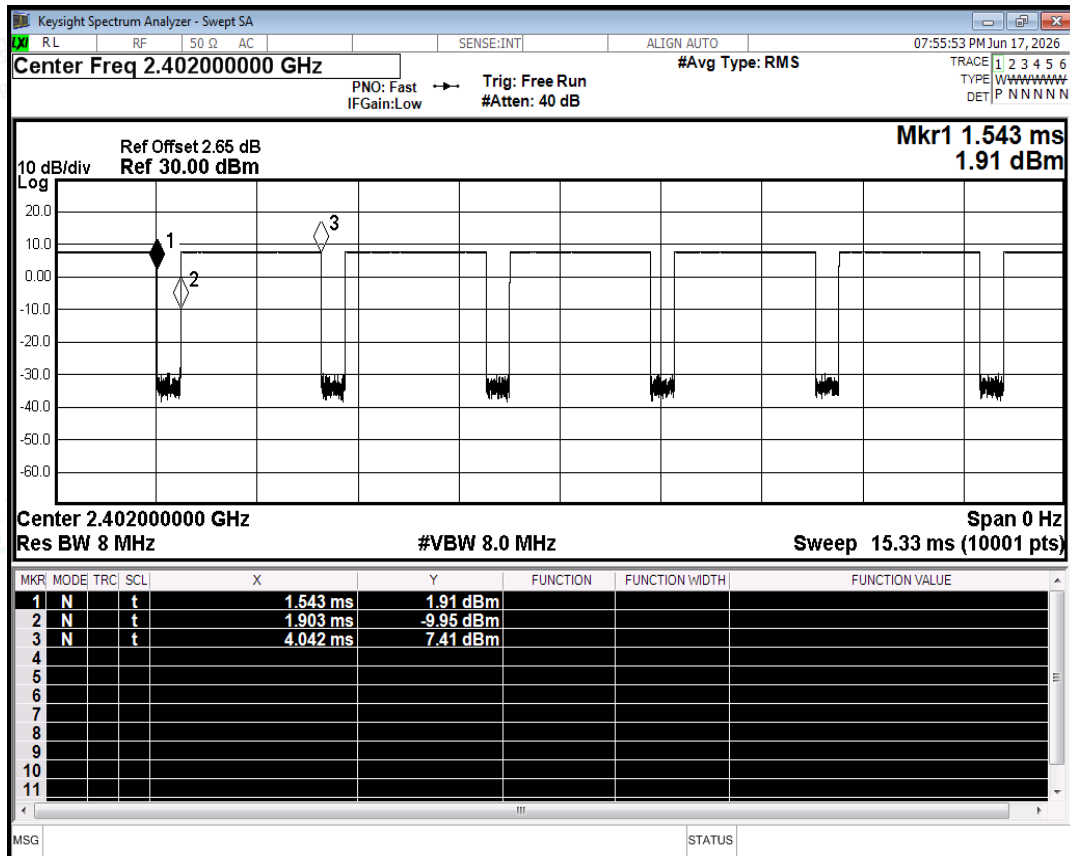
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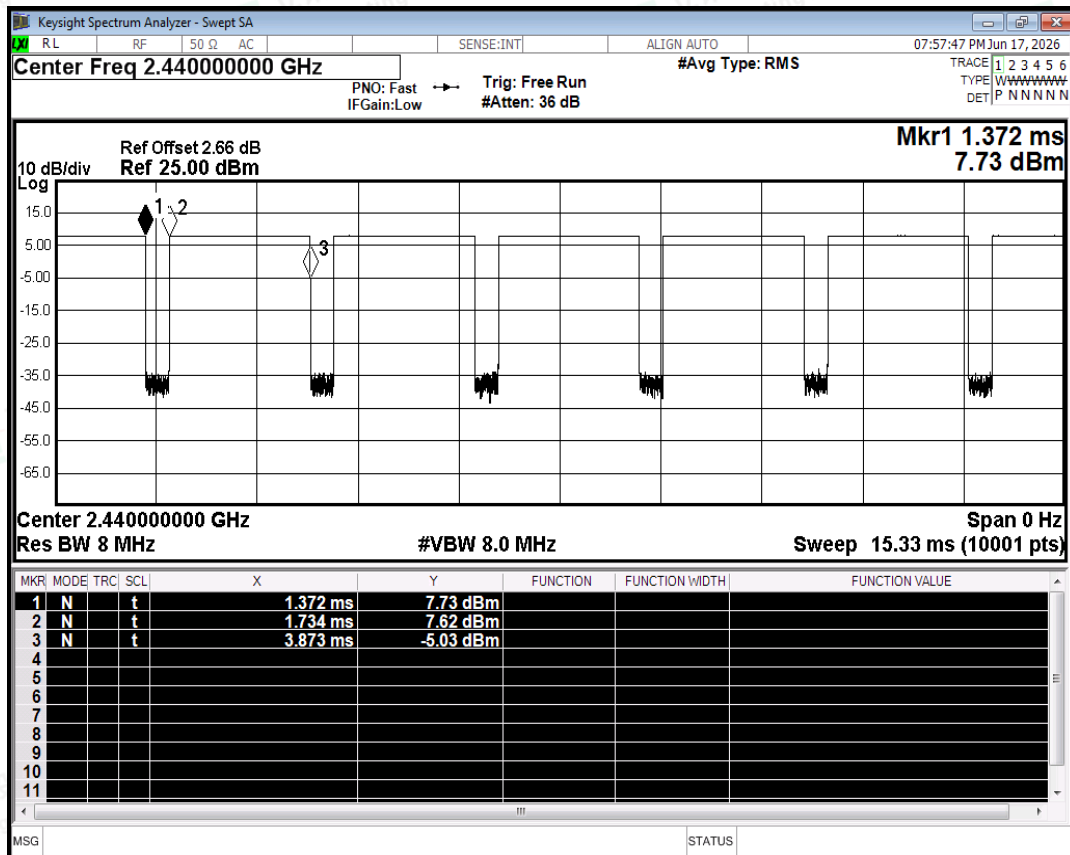
B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant2	85.58	0.68	0.47
NVNT	BLE 1M	2440	Ant2	85.53	0.68	0.47
NVNT	BLE 1M	2480	Ant2	85.53	0.68	0.47
NVNT	BLE 2M	2402	Ant2	57.69	2.39	0.93
NVNT	BLE 2M	2440	Ant2	57.65	2.39	0.93
NVNT	BLE 2M	2480	Ant2	57.61	2.39	0.93





Duty Cycle NVNT BLE 1M 2402MHz Ant2



Duty Cycle NVNT BLE 1M 2440MHz Ant2

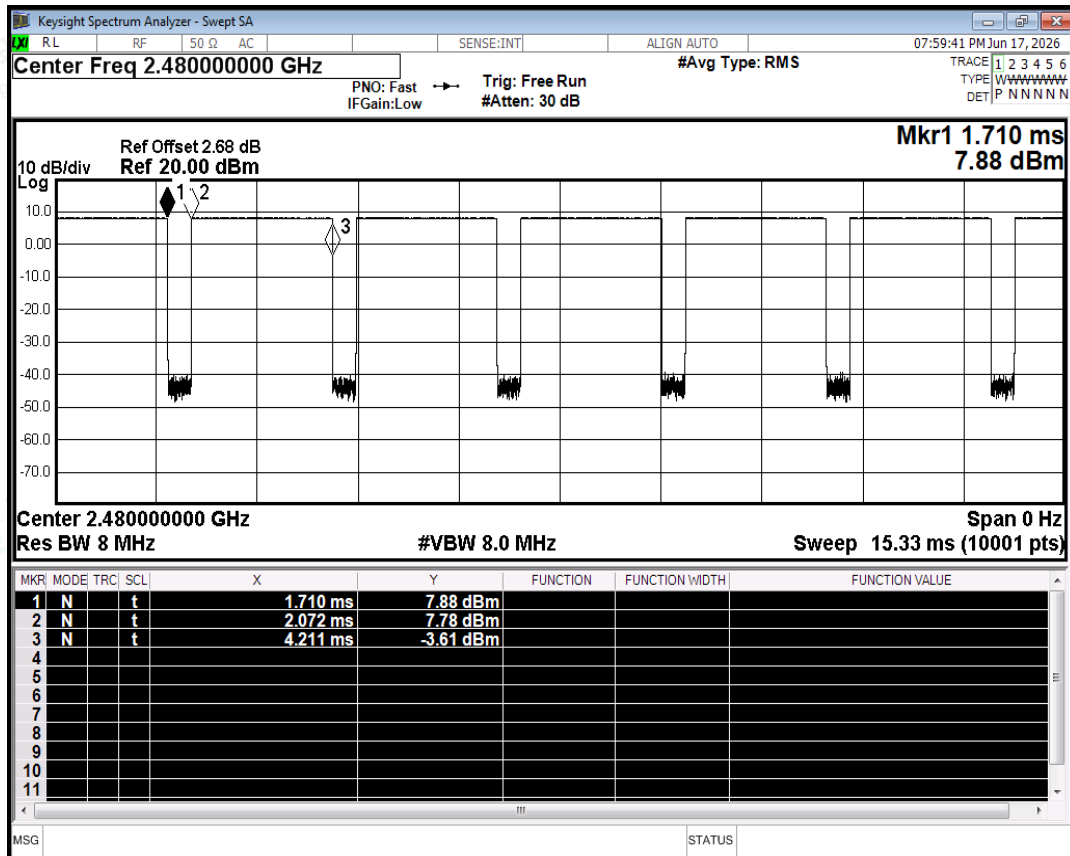


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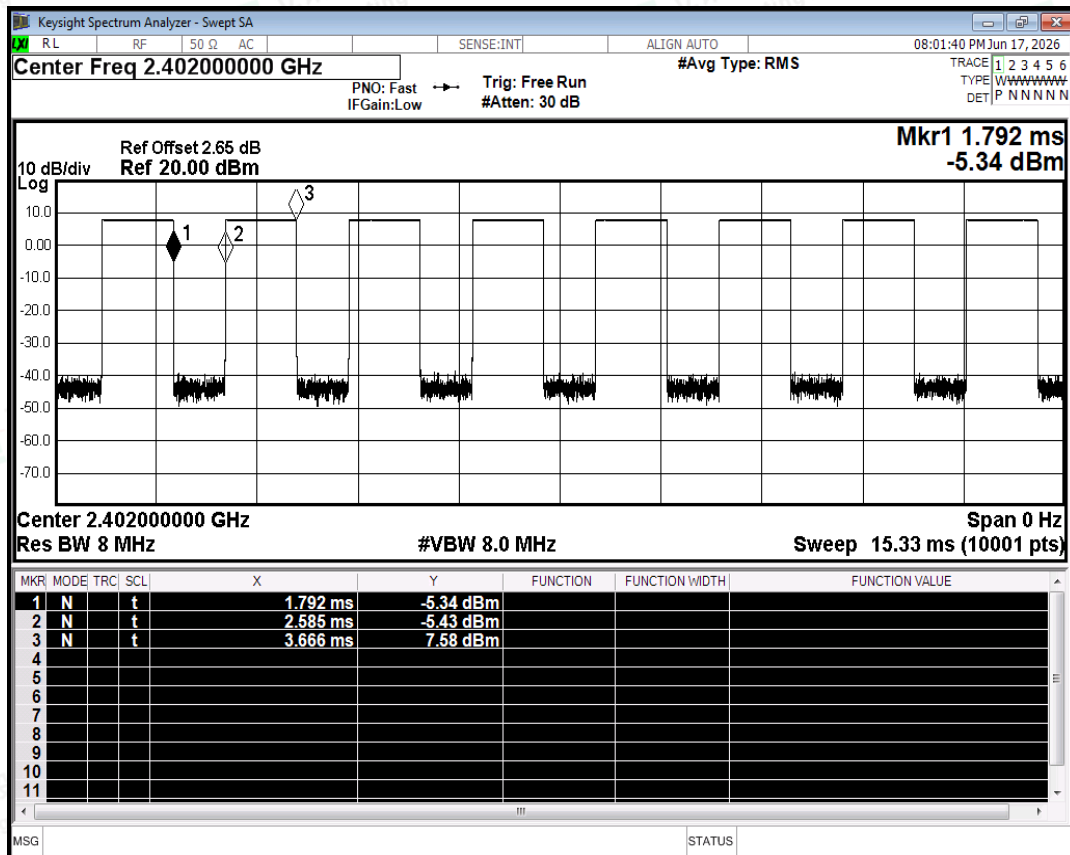
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Duty Cycle NVNT BLE 1M 2480MHz Ant2



Duty Cycle NVNT BLE 2M 2402MHz Ant2

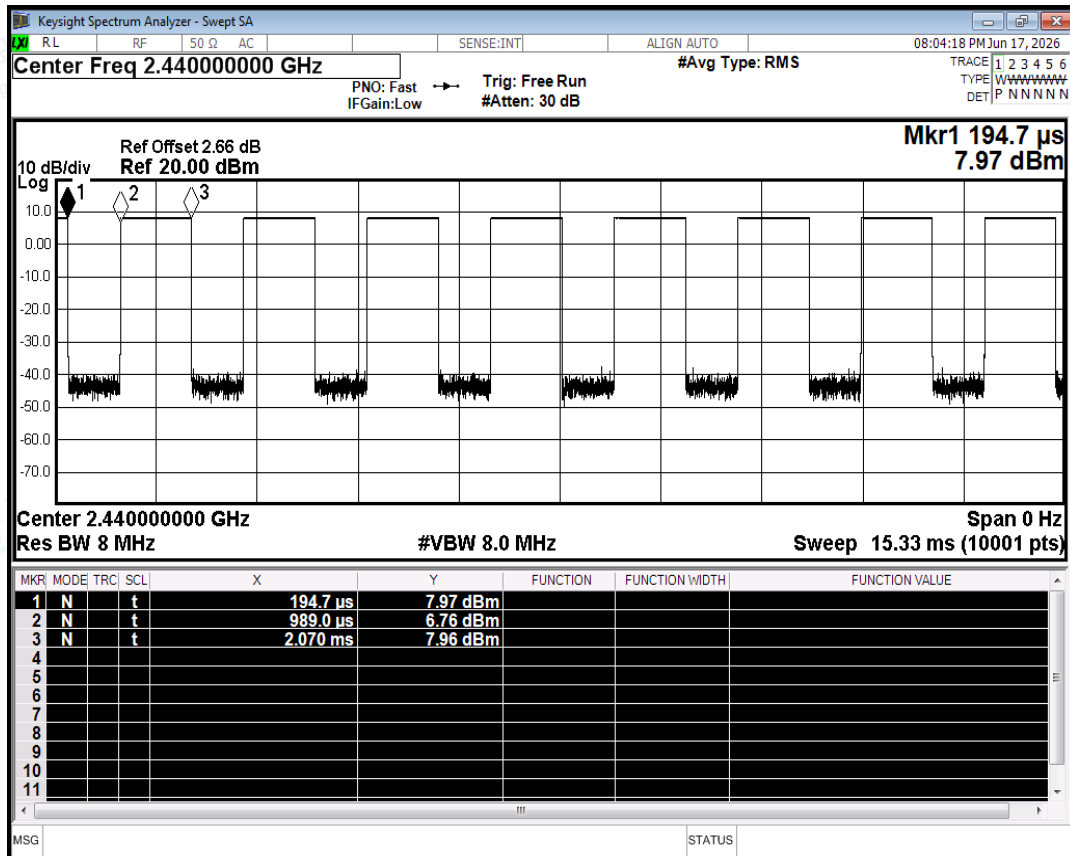


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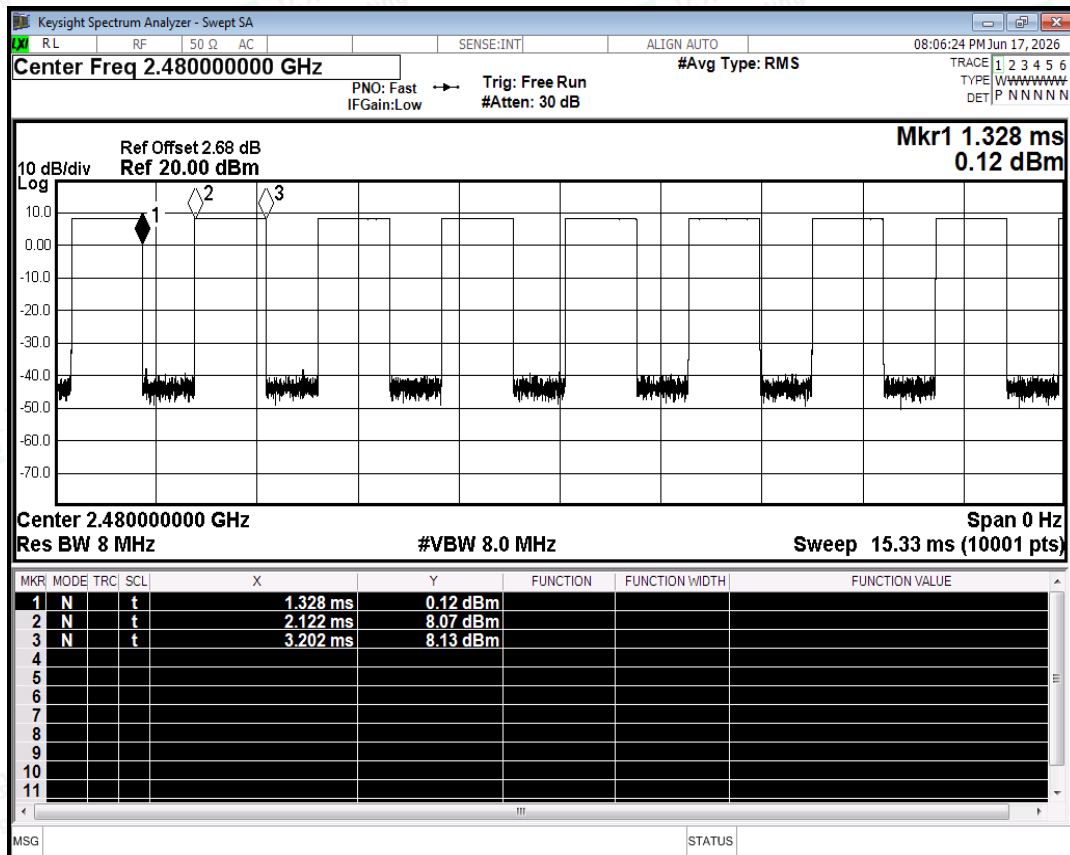
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Duty Cycle NVNT BLE 2M 2480MHz Ant2



Shenzhen LCS Compliance Testing Laboratory Ltd.

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B.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	Ant2	2310	-48.4	2	48.86	Peak	74	Pass
NVNT	BLE 1M	2402	Ant2	2310	-56.79	2	40.47	Average	54	Pass
NVNT	BLE 1M	2402	Ant2	2389.872	-46.62	2	50.64	Peak	74	Pass
NVNT	BLE 1M	2402	Ant2	2389.488	-55.31	2	41.95	Average	54	Pass
NVNT	BLE 1M	2402	Ant2	2390	-48.85	2	48.41	Peak	74	Pass
NVNT	BLE 1M	2402	Ant2	2390	-55.49	2	41.77	Average	54	Pass
NVNT	BLE 1M	2480	Ant2	2483.5	-48	2	49.26	Peak	74	Pass
NVNT	BLE 1M	2480	Ant2	2483.5	-50.52	2	46.74	Average	54	Pass
NVNT	BLE 1M	2480	Ant2	2483.728	-45.26	2	52	Peak	74	Pass
NVNT	BLE 1M	2480	Ant2	2483.512	-50.52	2	46.74	Average	54	Pass
NVNT	BLE 1M	2480	Ant2	2500	-48.7	2	48.56	Peak	74	Pass
NVNT	BLE 1M	2480	Ant2	2500	-56.57	2	40.69	Average	54	Pass
NVNT	BLE 2M	2402	Ant2	2310	-50.78	2	46.48	Peak	74	Pass
NVNT	BLE 2M	2402	Ant2	2310	-56.82	2	40.44	Average	54	Pass
NVNT	BLE 2M	2402	Ant2	2383.632	-47.01	2	50.25	Peak	74	Pass
NVNT	BLE 2M	2402	Ant2	2389.296	-55.17	2	42.09	Average	54	Pass
NVNT	BLE 2M	2402	Ant2	2390	-48.95	2	48.31	Peak	74	Pass
NVNT	BLE 2M	2402	Ant2	2390	-55.39	2	41.87	Average	54	Pass
NVNT	BLE 2M	2480	Ant2	2483.5	-43.68	2	53.58	Peak	74	Pass
NVNT	BLE 2M	2480	Ant2	2483.5	-44.83	2	52.43	Average	54	Pass
NVNT	BLE 2M	2480	Ant2	2483.56	-43.19	2	54.07	Peak	74	Pass
NVNT	BLE 2M	2480	Ant2	2483.512	-44.83	2	52.43	Average	54	Pass
NVNT	BLE 2M	2480	Ant2	2500	-49.16	2	48.1	Peak	74	Pass
NVNT	BLE 2M	2480	Ant2	2500	-56.36	2	40.9	Average	54	Pass

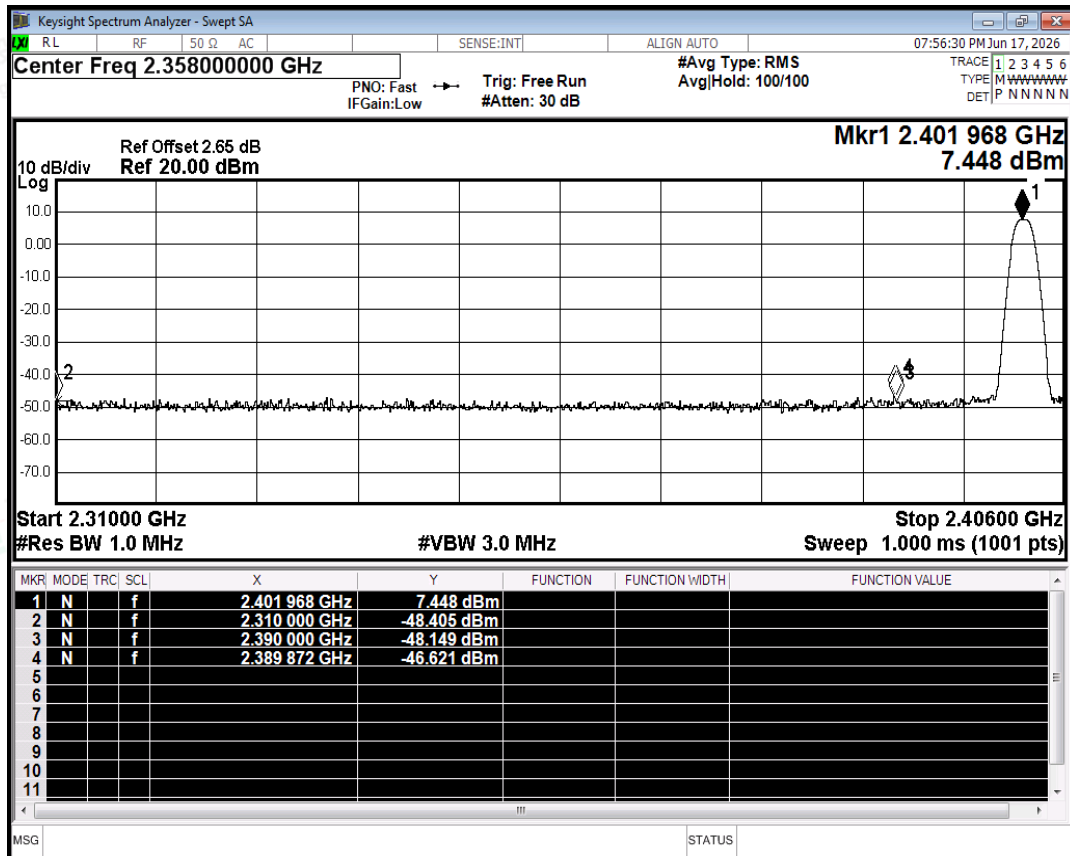


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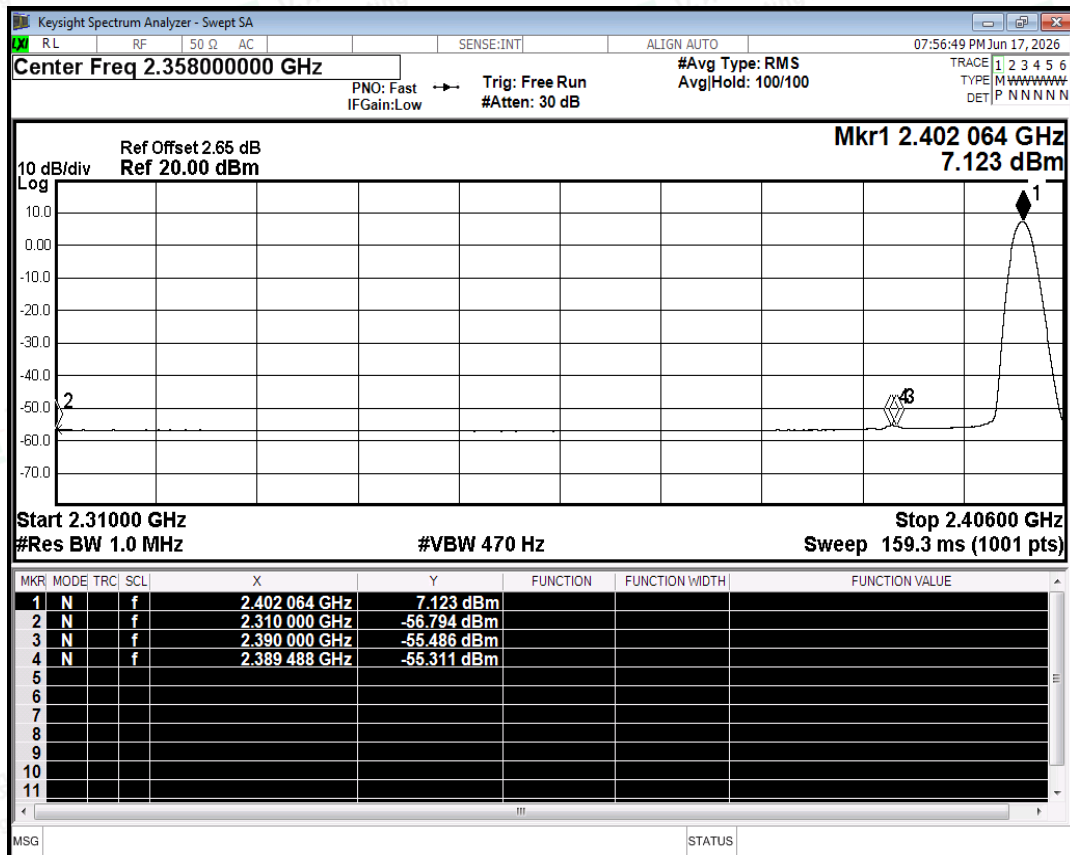
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Restrict Band NVNT BLE 1M 2402MHz Ant2 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant2 Average

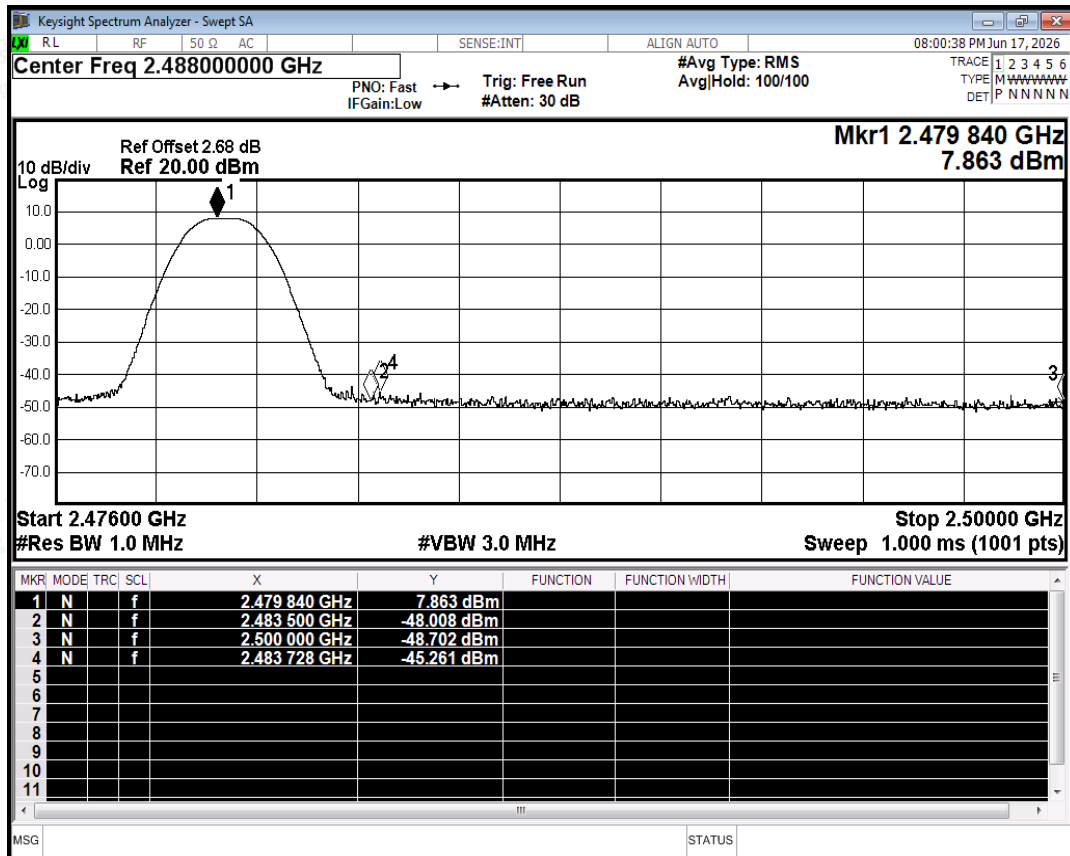


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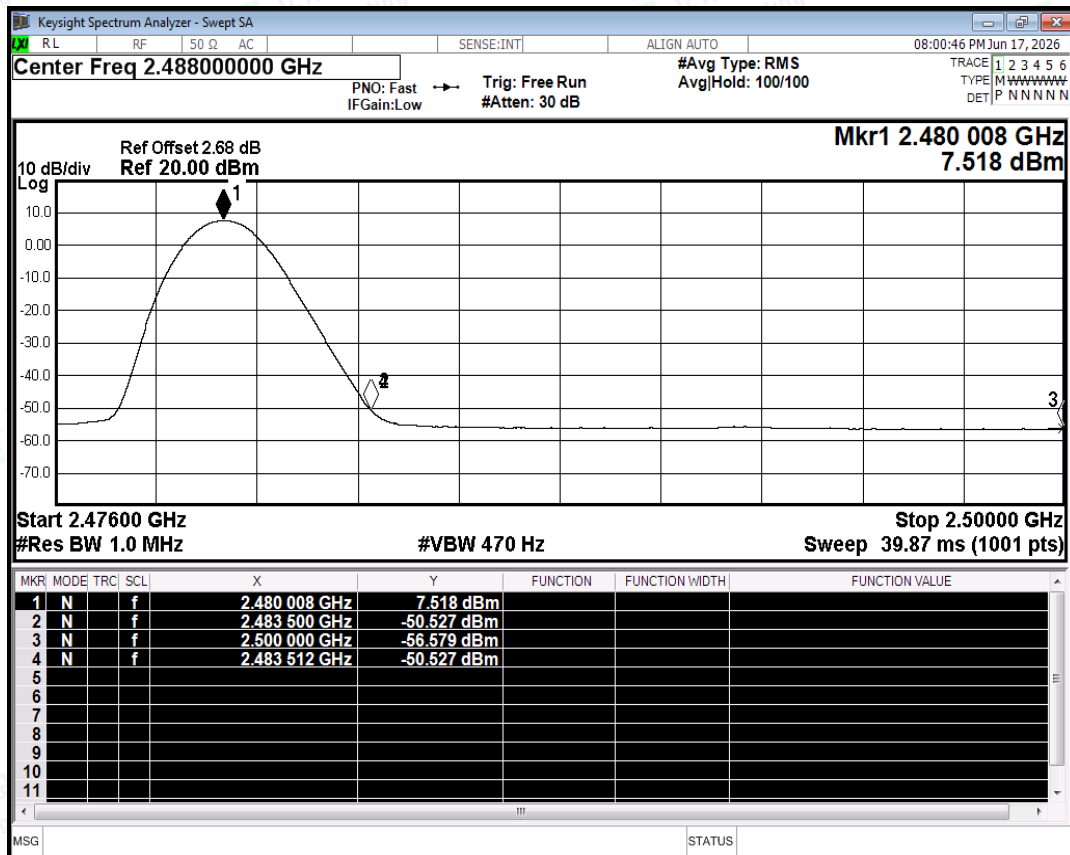
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Restrict Band NVNT BLE 1M 2480MHz Ant2 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant2 Average

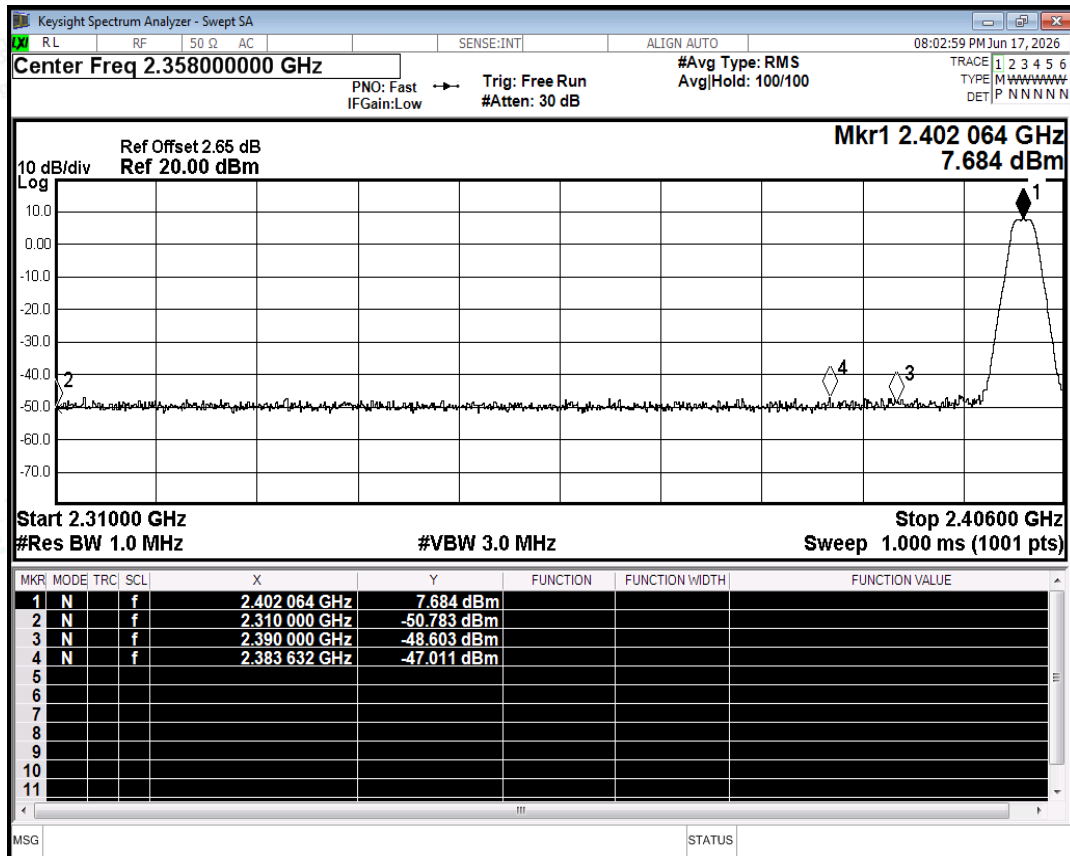


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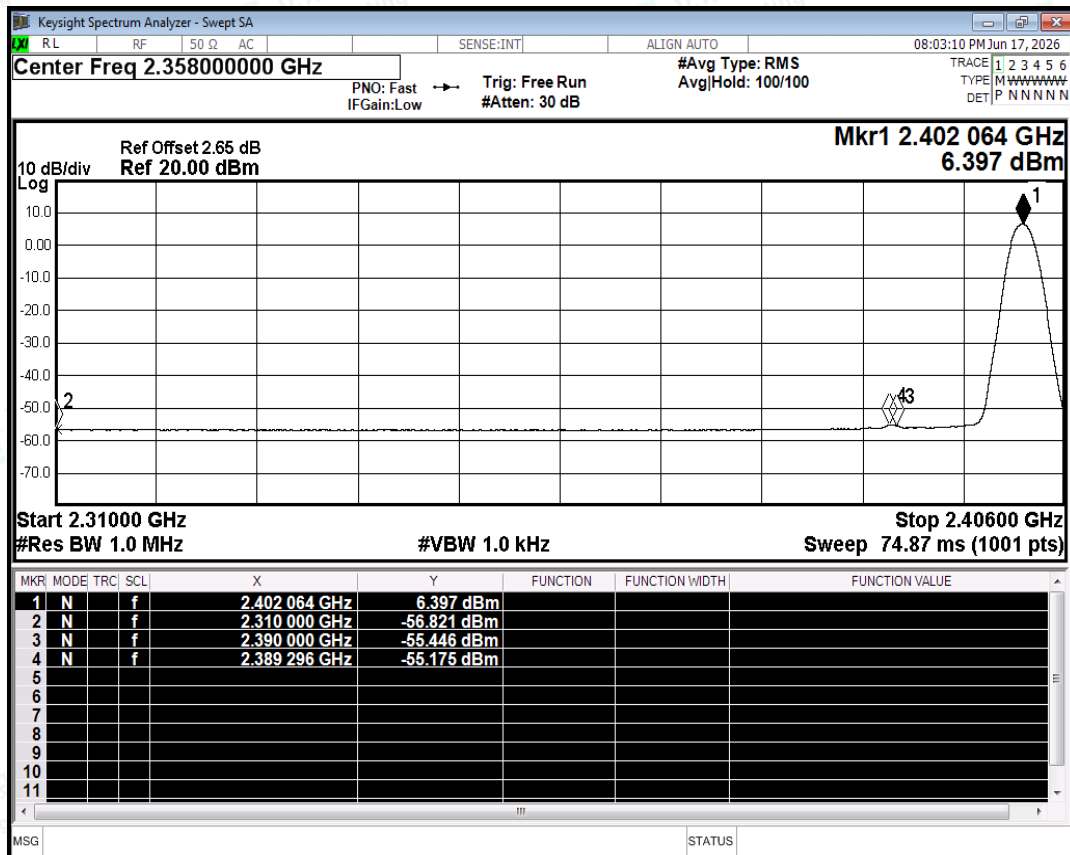
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Restrict Band NVNT BLE 2M 2402MHz Ant2 Peak



Restrict Band NVNT BLE 2M 2402MHz Ant2 Average

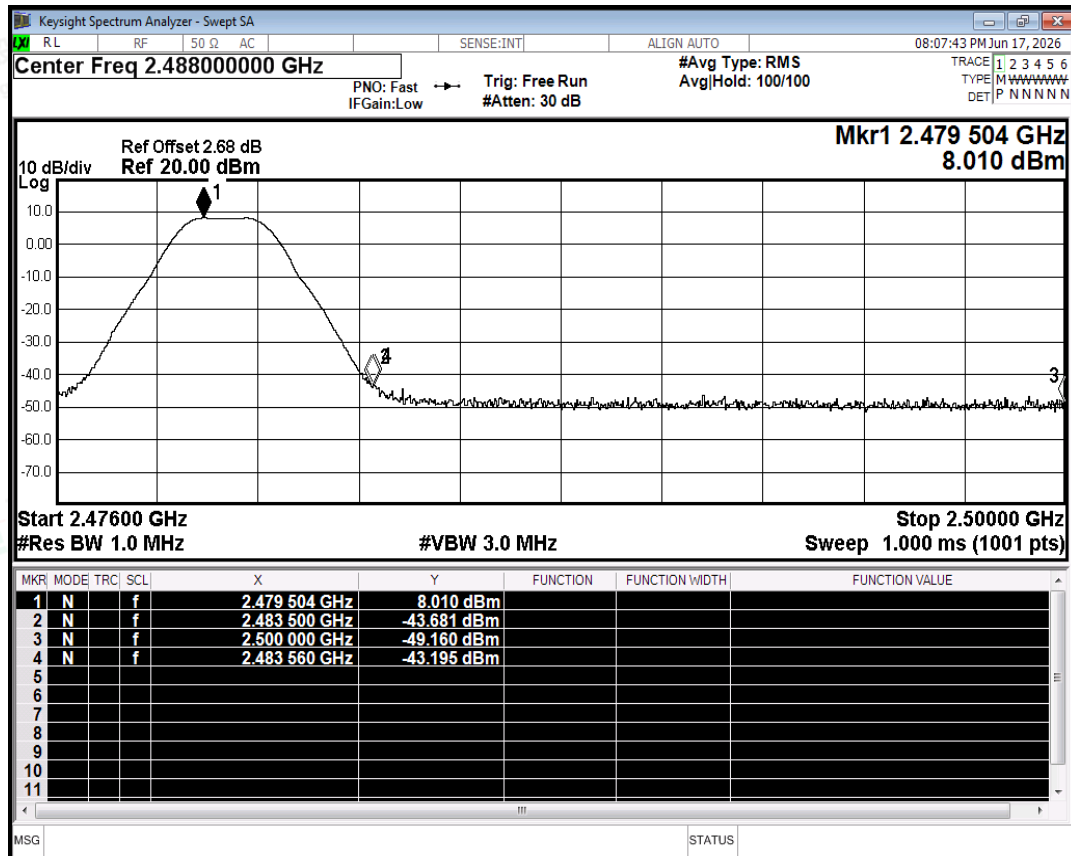


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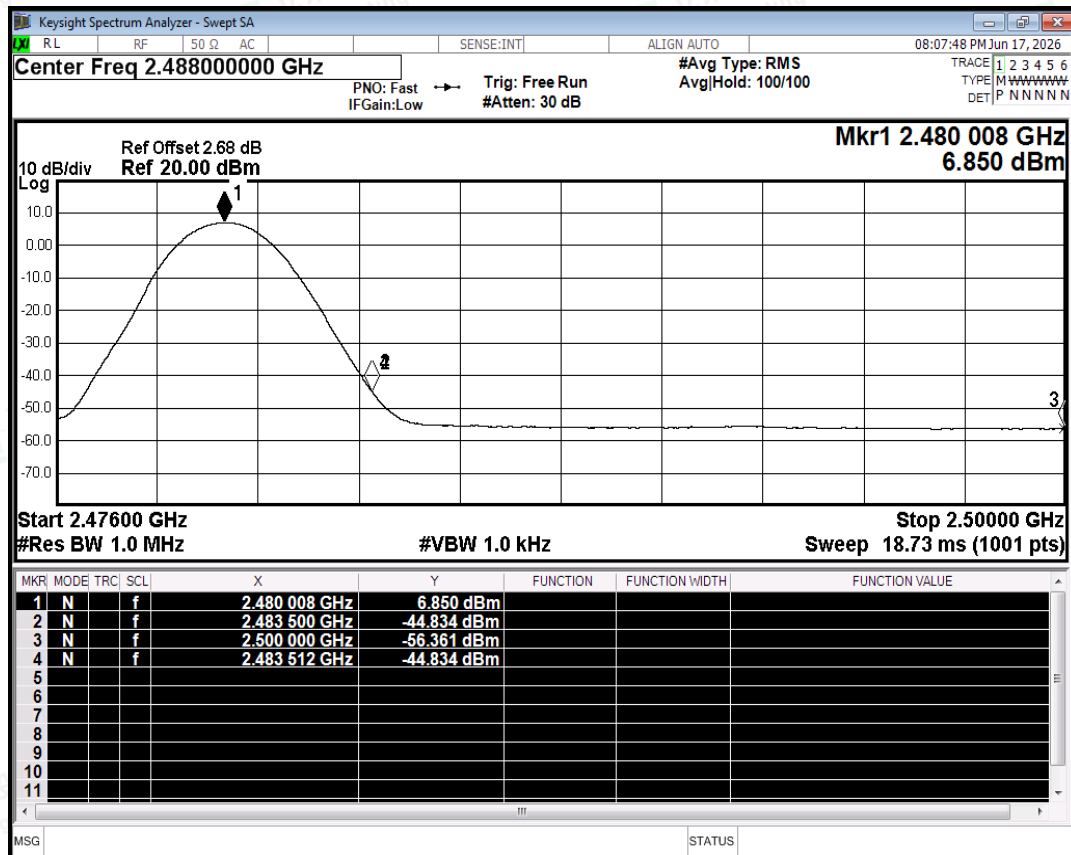
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