



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: OTT Box

Test Model: Box Lite 4K V2

Environmental Conditions

Temperature:	23.9°C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun

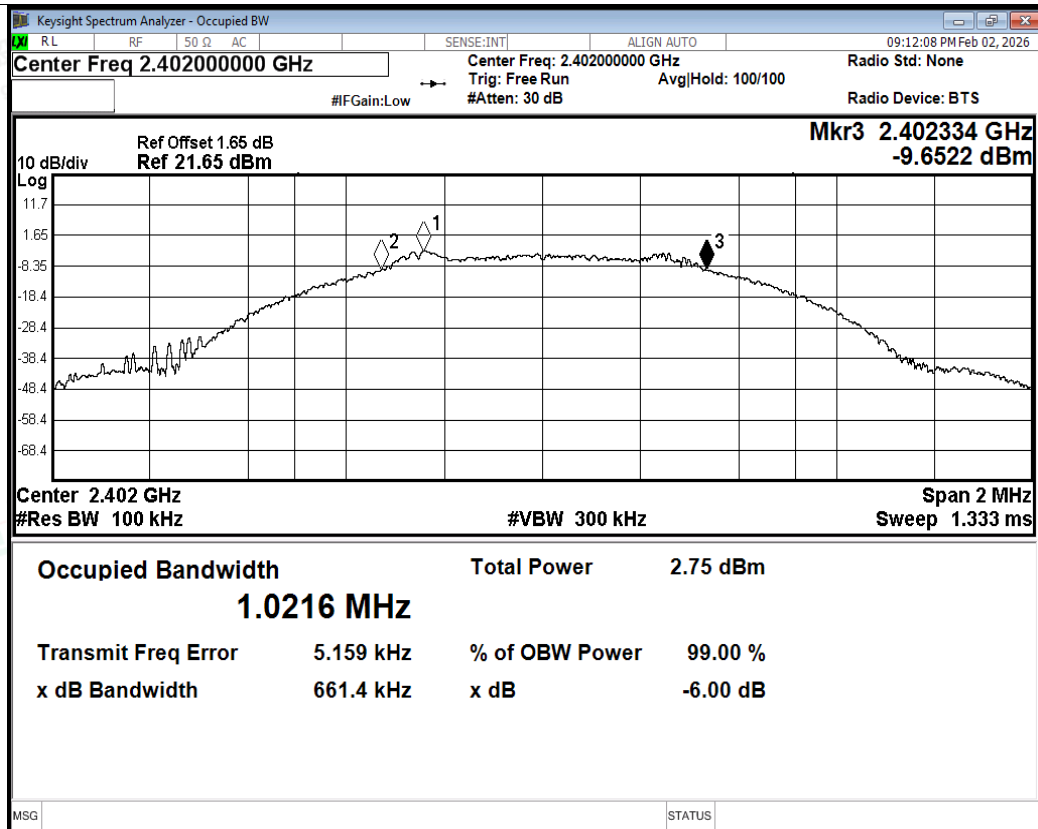




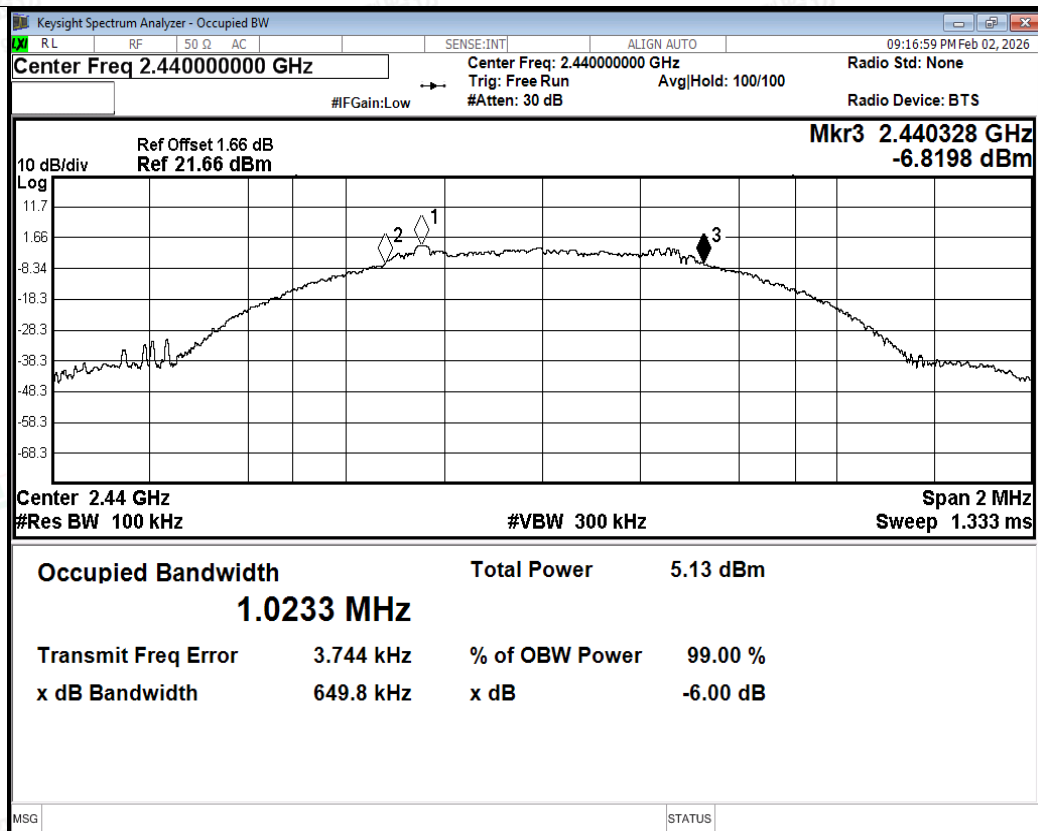
B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Ant0enna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant0	0.6614	0.5	Pass
NVNT	BLE 1M	2440	Ant0	0.6498	0.5	Pass
NVNT	BLE 1M	2480	Ant0	0.6648	0.5	Pass
NVNT	BLE 2M	2402	Ant0	1.145	0.5	Pass
NVNT	BLE 2M	2440	Ant0	1.16	0.5	Pass
NVNT	BLE 2M	2480	Ant0	1.142	0.5	Pass





-6dB Bandwidth NVNT BLE 1M 2402MHz Ant0



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant0

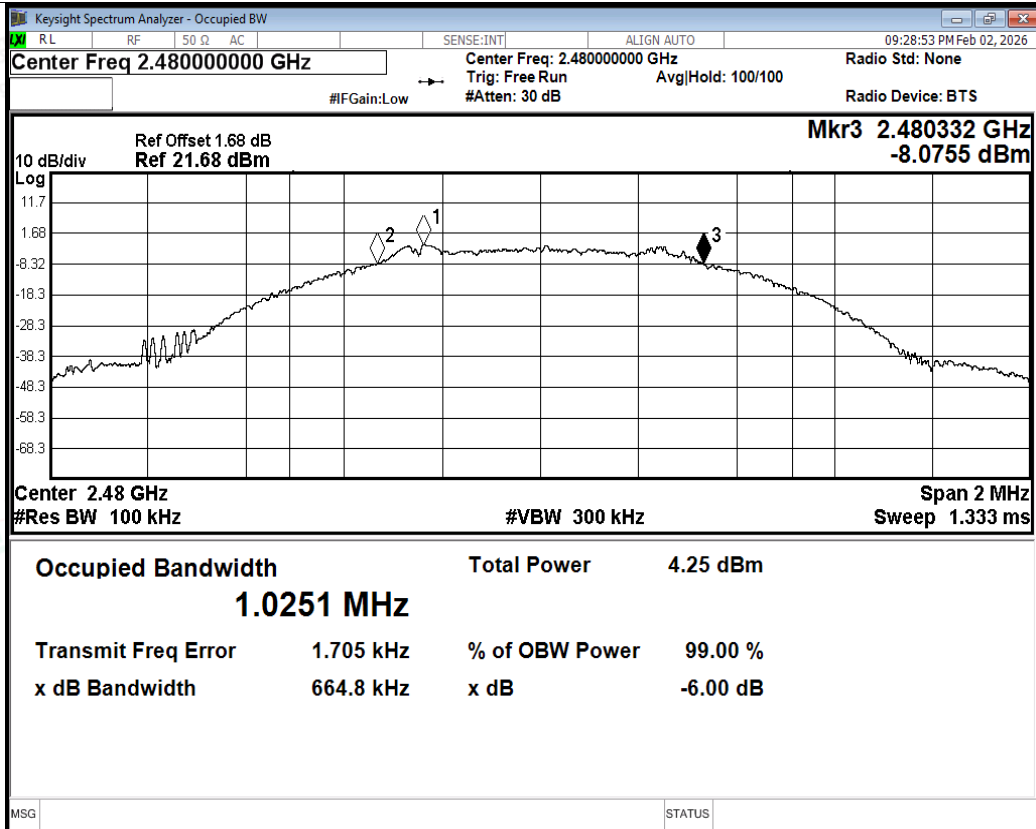


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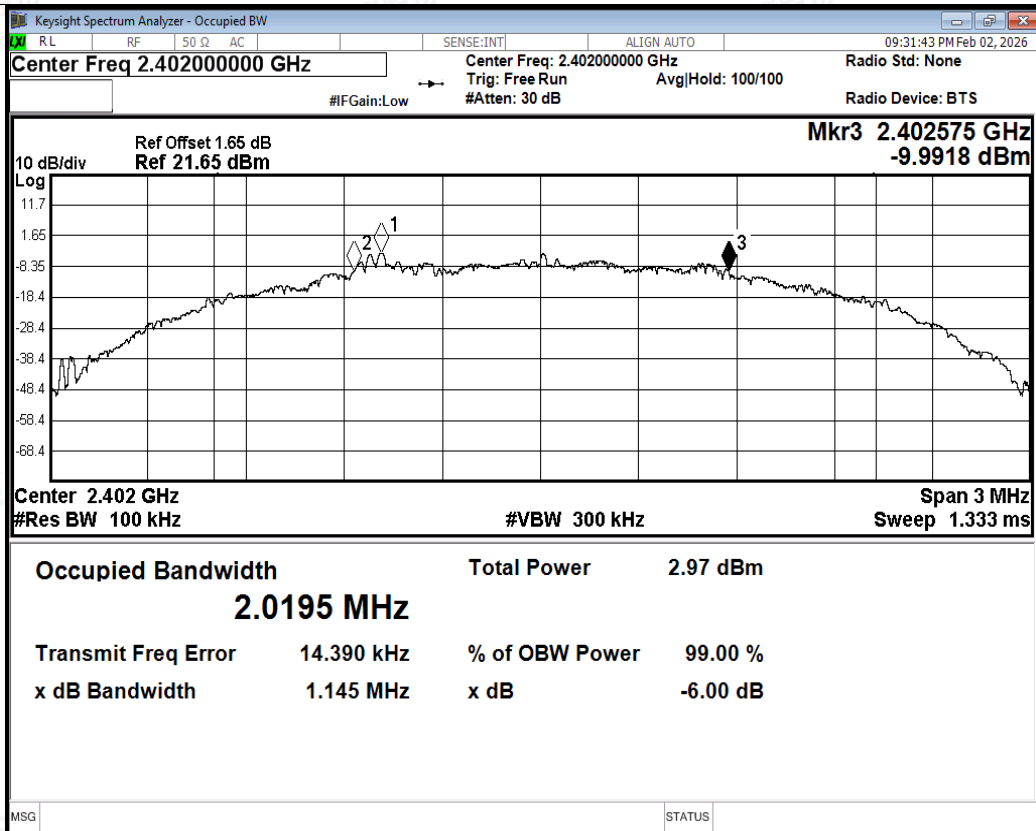
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-6dB Bandwidth NVNT BLE 1M 2480MHz Ant0



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant0

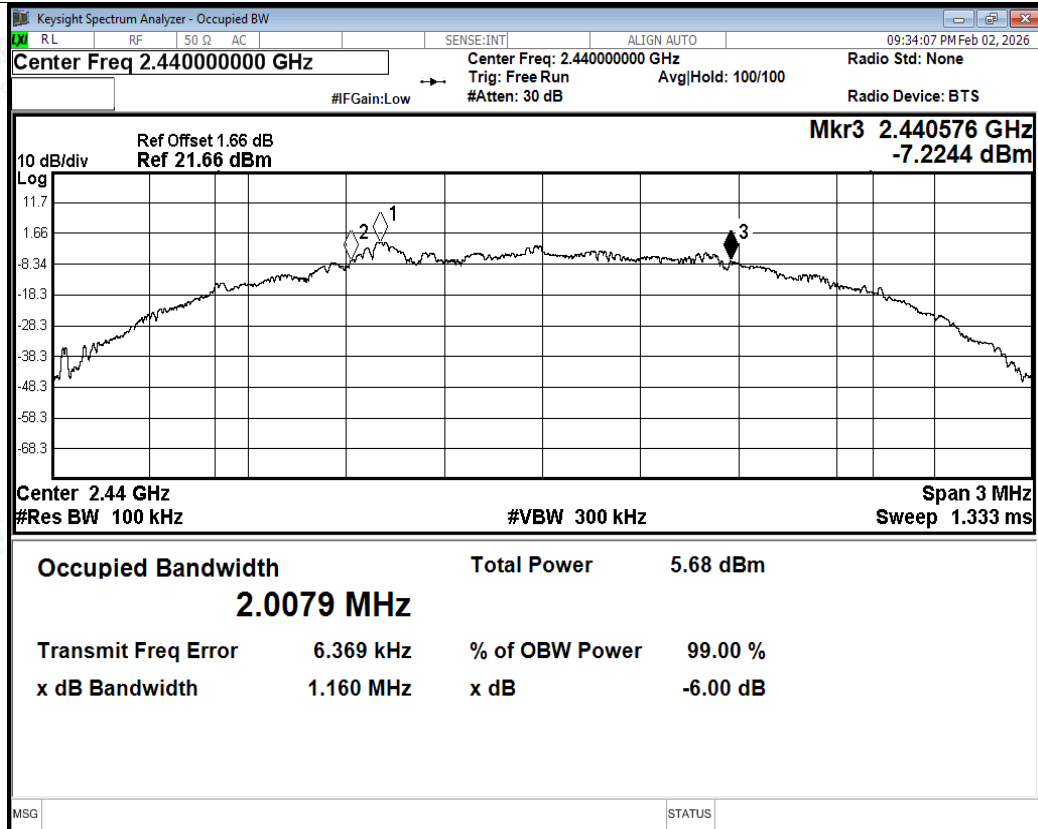


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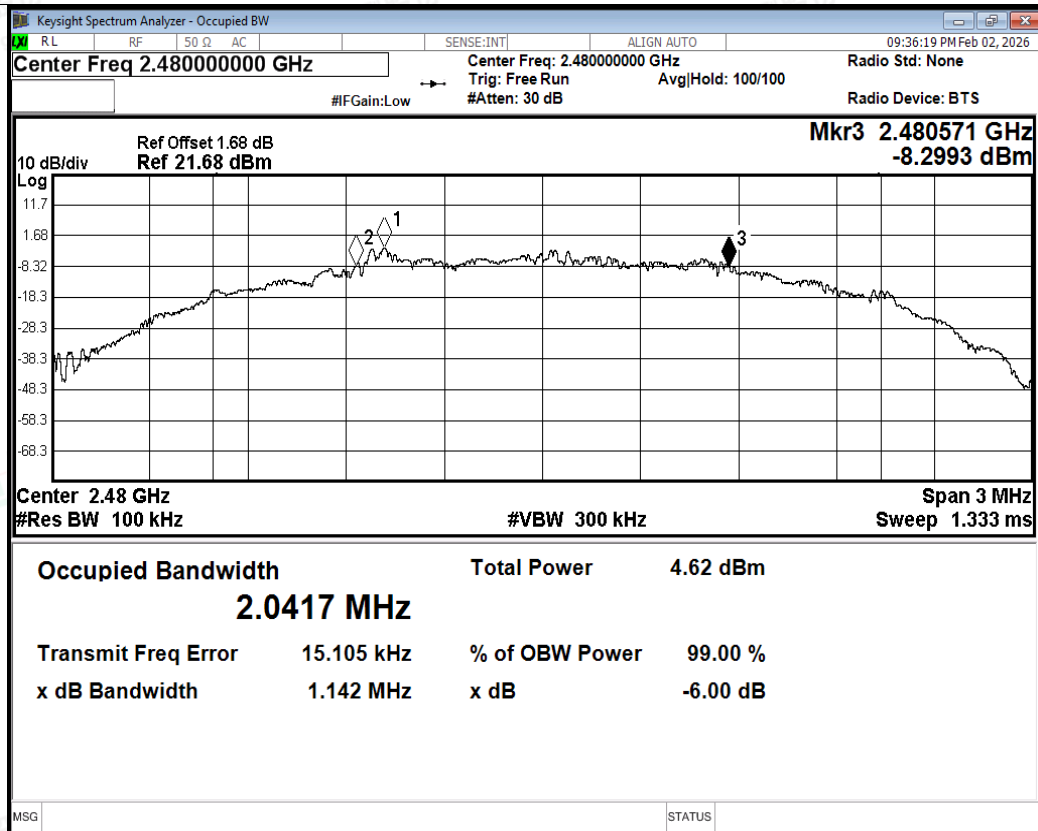
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-6dB Bandwidth NVNT BLE 2M 2440MHz Ant0



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant0



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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	Ant0	-3.01	30	Pass
NVNT	BLE 1M	2440	Ant0	-0.57	30	Pass
NVNT	BLE 1M	2480	Ant0	-1.46	30	Pass
NVNT	BLE 2M	2402	Ant0	-3.3	30	Pass
NVNT	BLE 2M	2440	Ant0	-0.74	30	Pass
NVNT	BLE 2M	2480	Ant0	-1.63	30	Pass

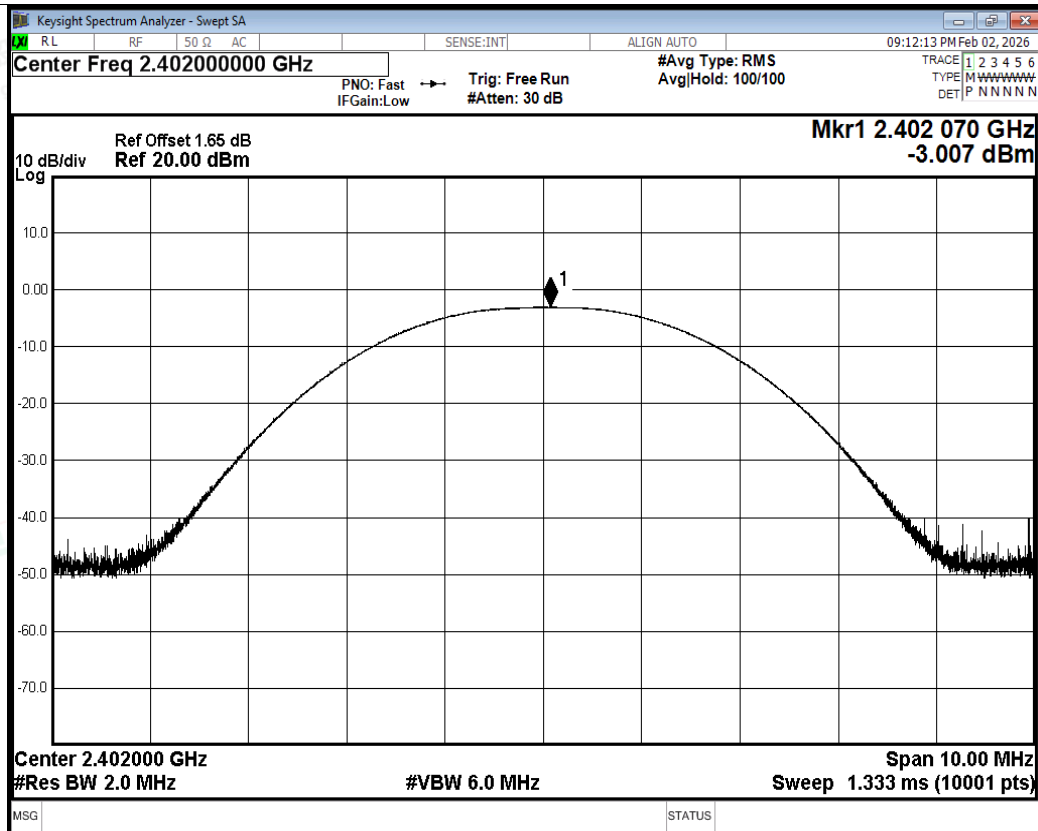


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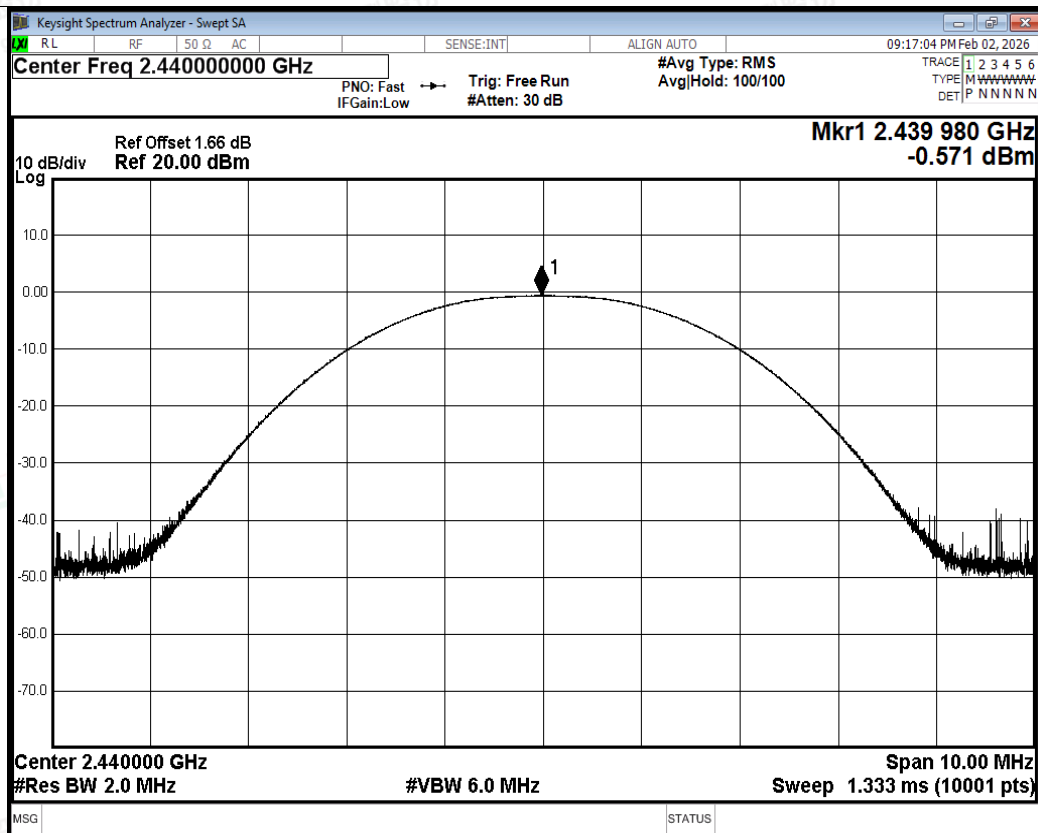
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Peak Power NVNT BLE 1M 2402MHz Ant0



Peak Power NVNT BLE 1M 2440MHz Ant0

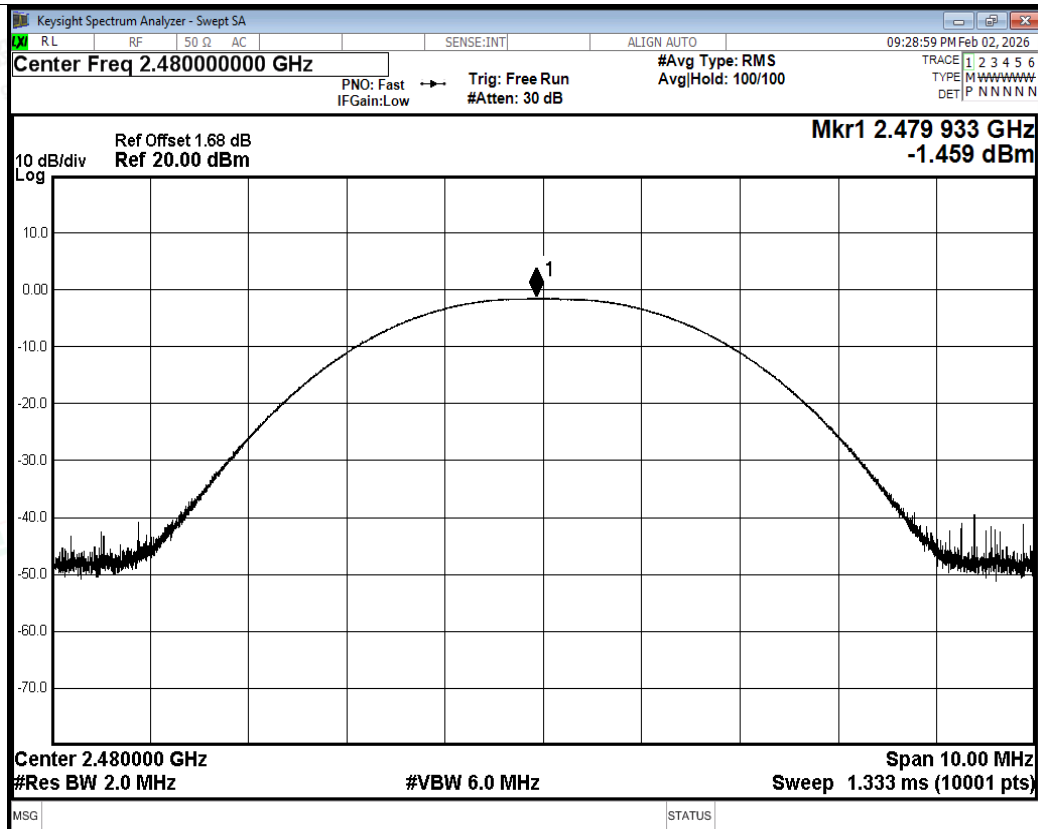


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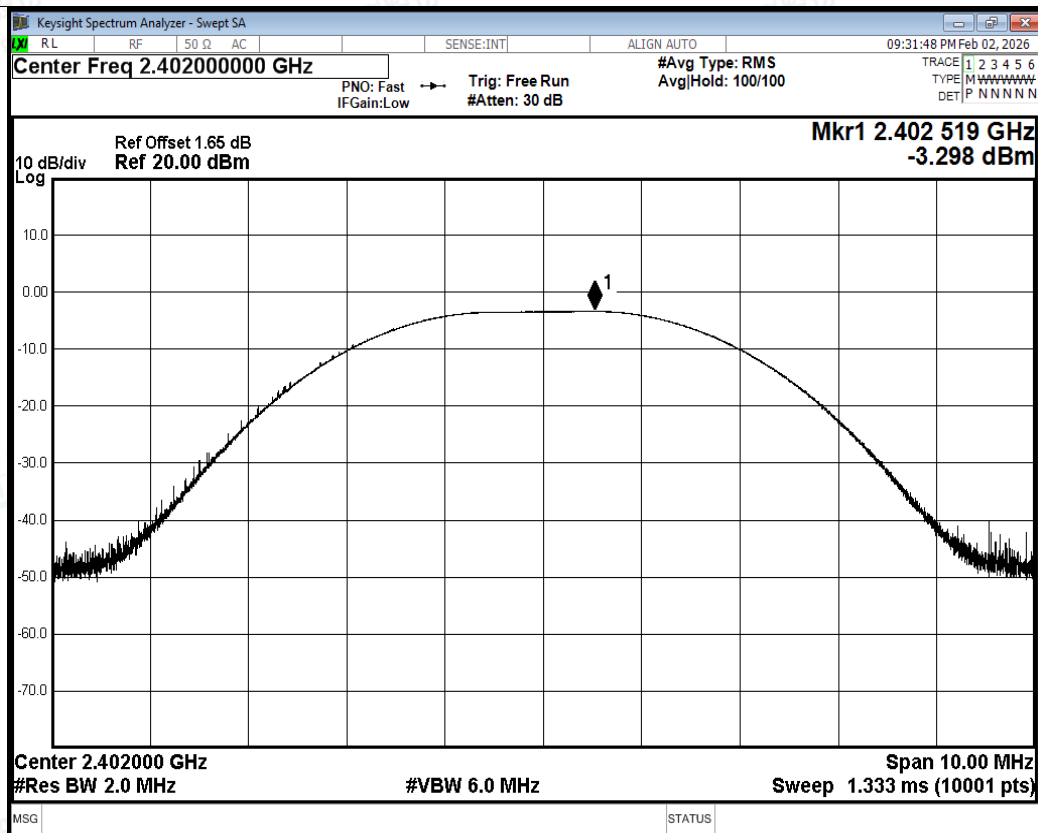
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Peak Power NVNT BLE 1M 2480MHz Ant0



Peak Power NVNT BLE 2M 2402MHz Ant0

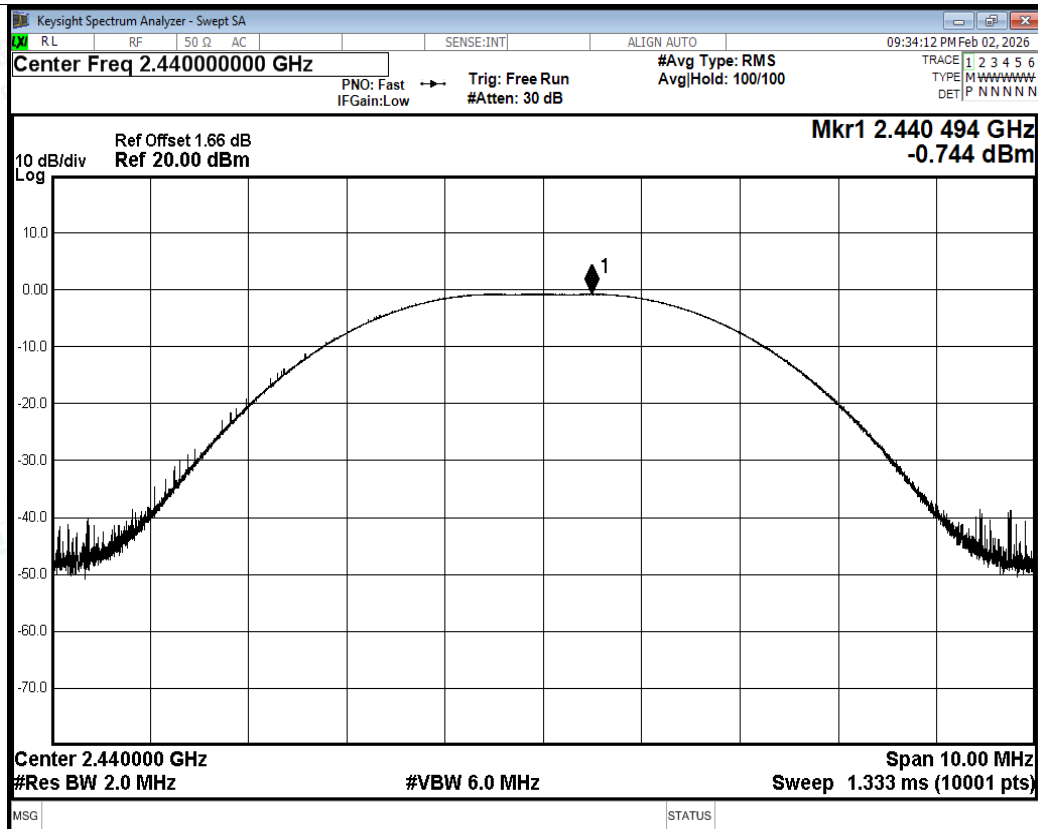


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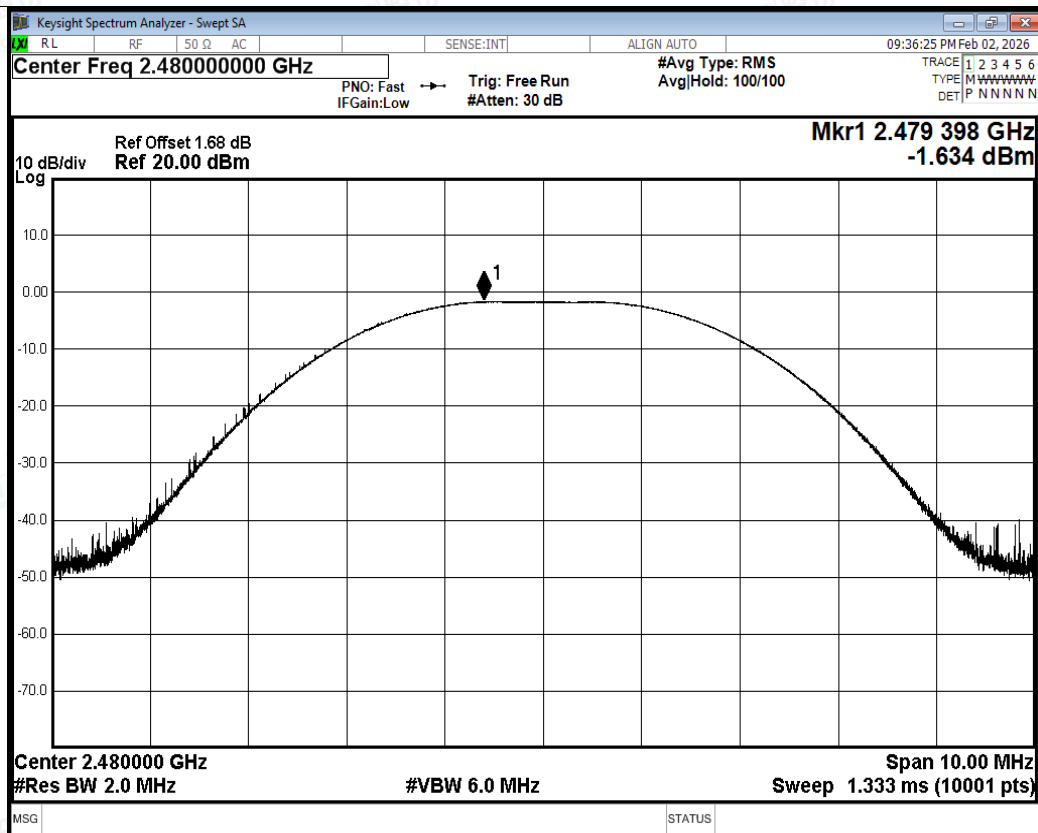
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Peak Power NVNT BLE 2M 2440MHz Ant0



Peak Power NVNT BLE 2M 2480MHz Ant0



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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	Ant0	-19.65	8	Pass
NVNT	BLE 1M	2440	Ant0	-17.05	8	Pass
NVNT	BLE 1M	2480	Ant0	-17.93	8	Pass
NVNT	BLE 2M	2402	Ant0	-22.72	8	Pass
NVNT	BLE 2M	2440	Ant0	-20.13	8	Pass
NVNT	BLE 2M	2480	Ant0	-21.36	8	Pass

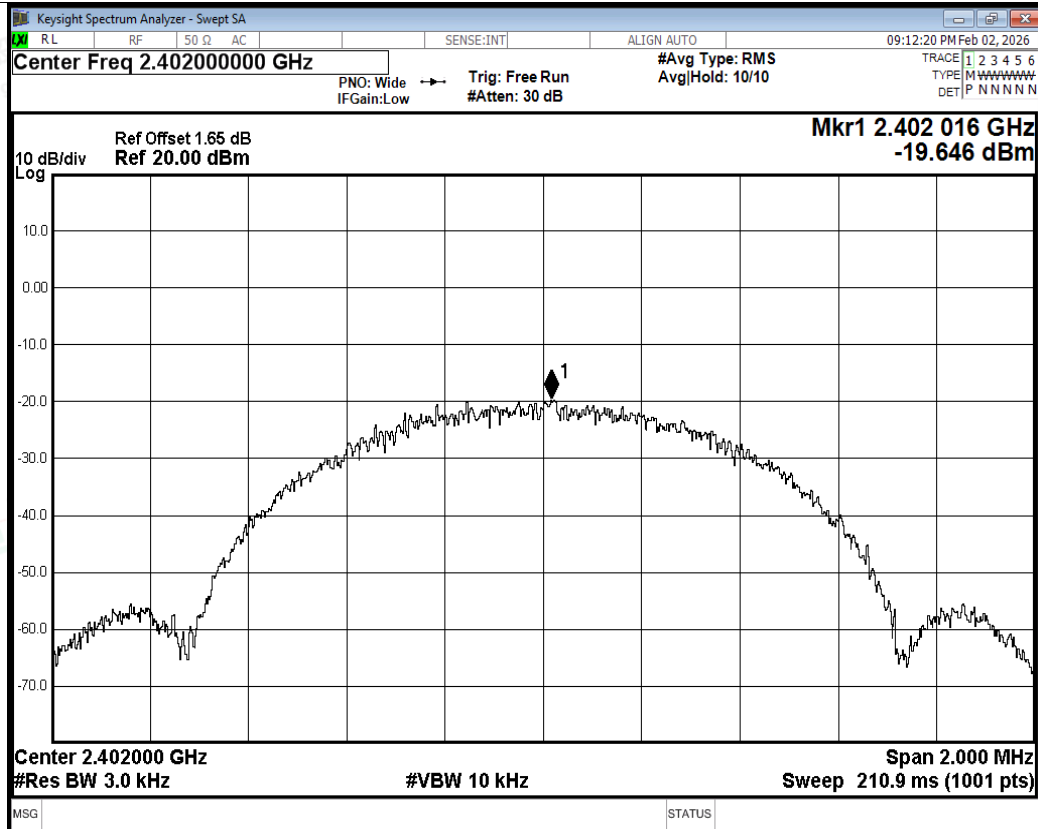


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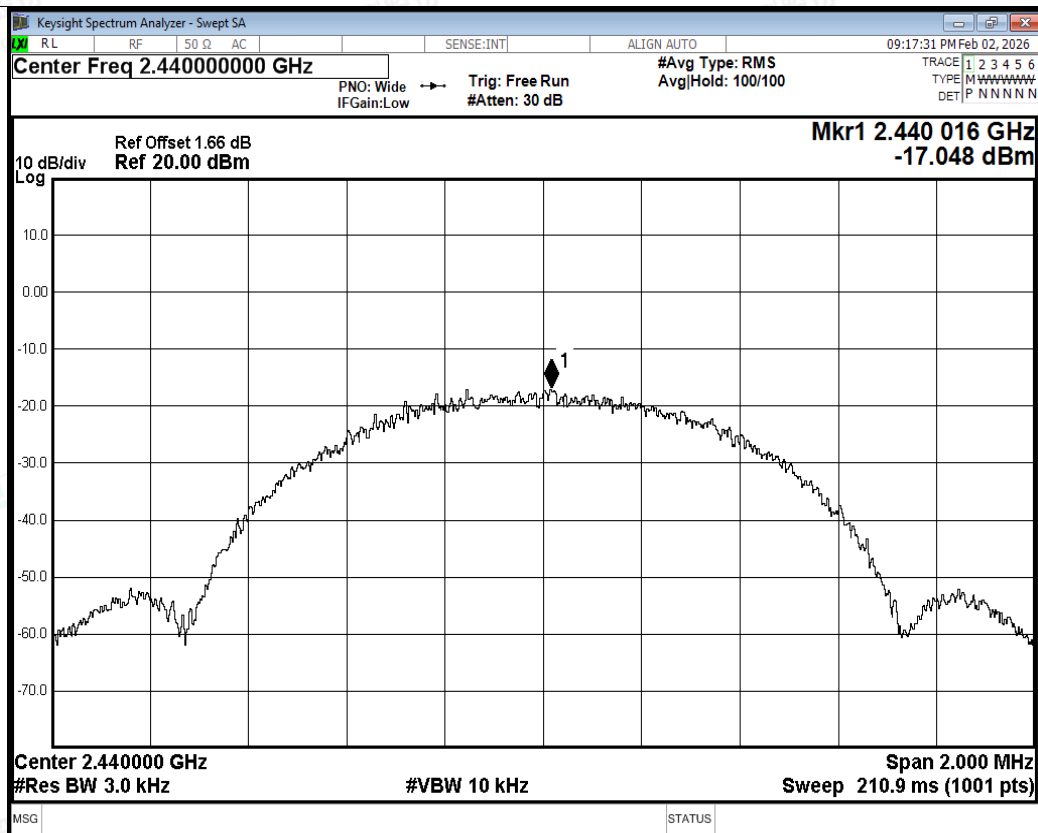
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PSD NVNT BLE 1M 2402MHz Ant0



PSD NVNT BLE 1M 2440MHz Ant0

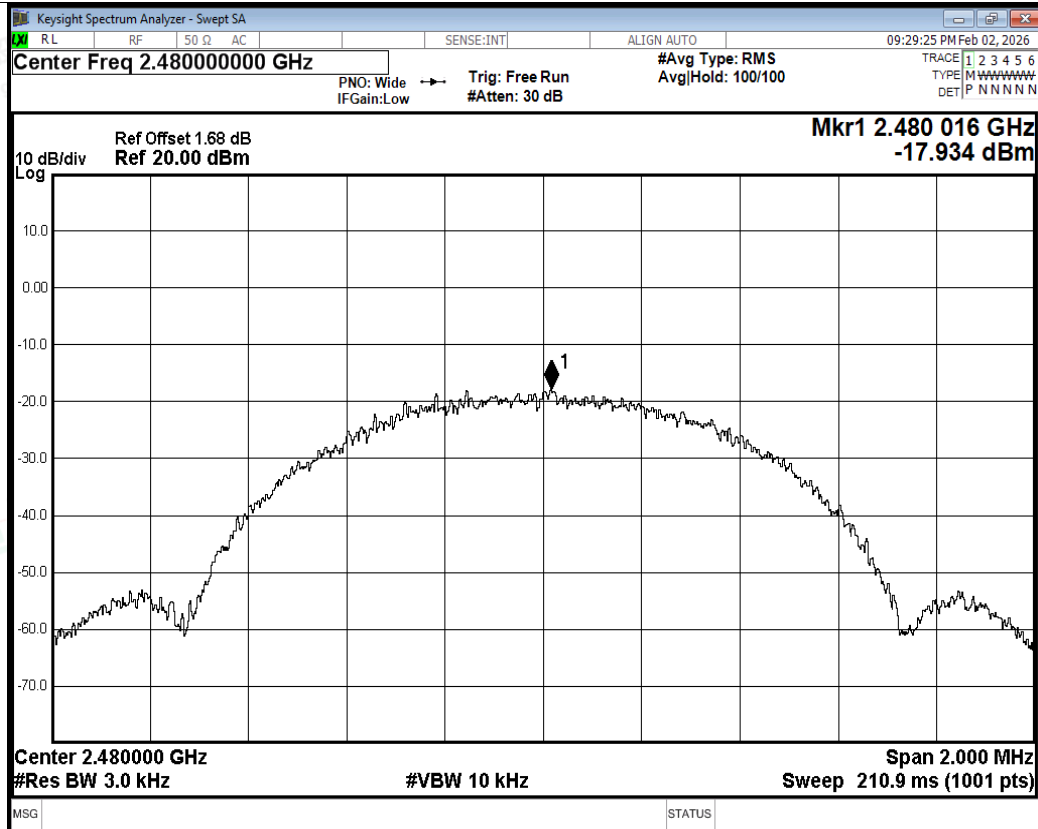


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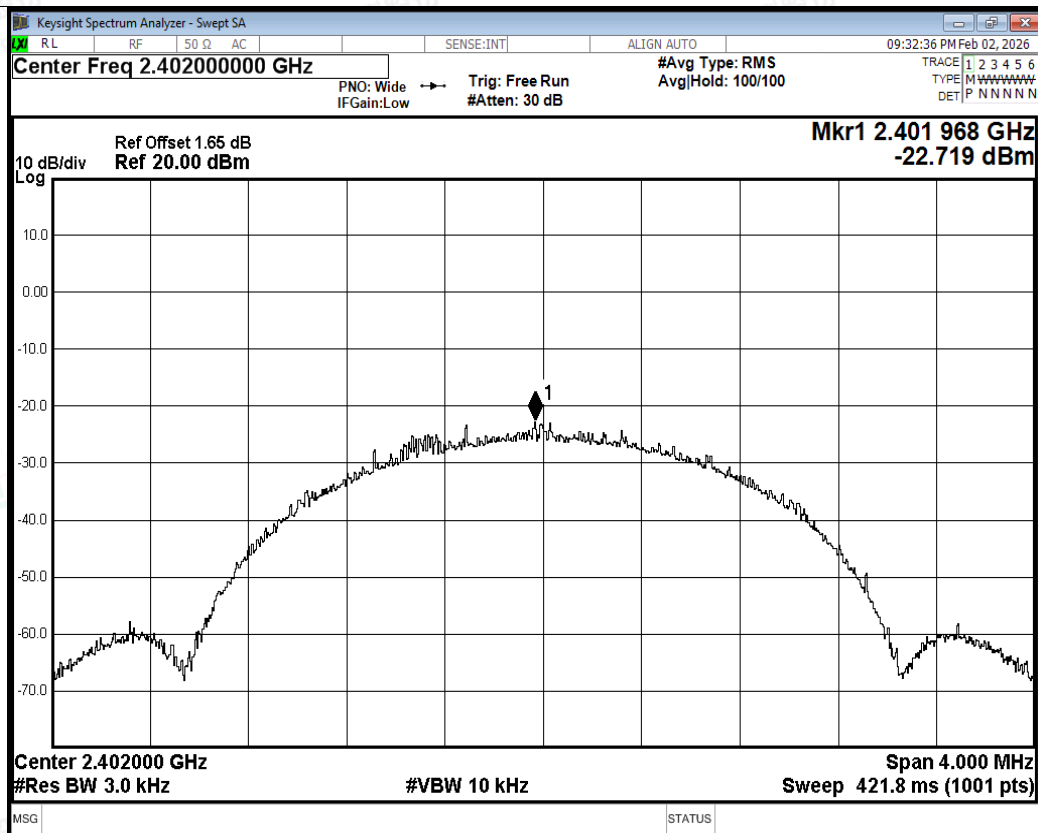
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PSD NVNT BLE 1M 2480MHz Ant0



PSD NVNT BLE 2M 2402MHz Ant0

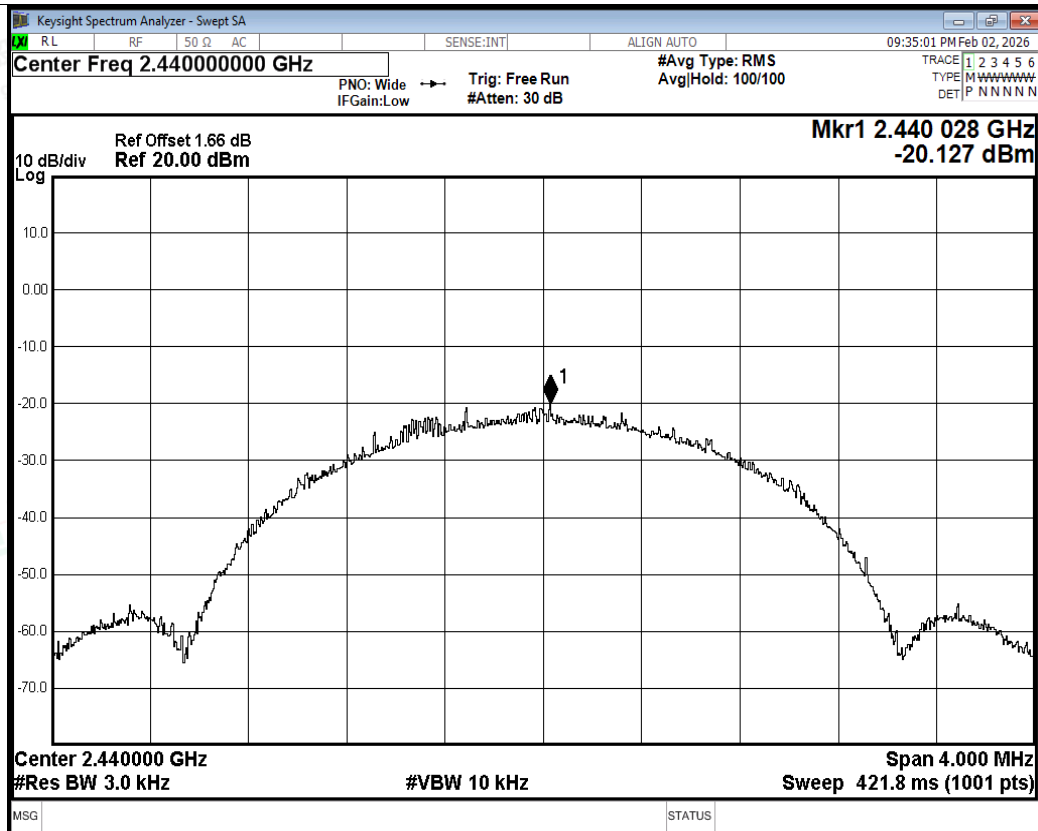


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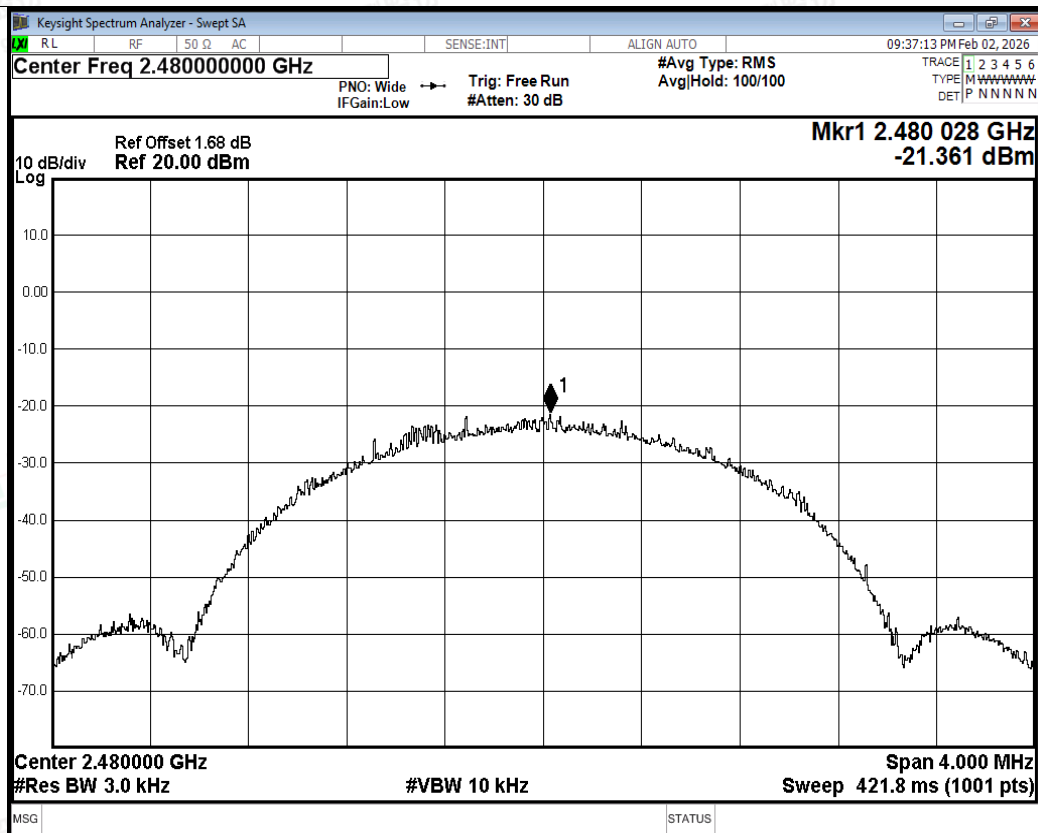
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PSD NVNT BLE 2M 2440MHz Ant0



PSD NVNT BLE 2M 2480MHz Ant0



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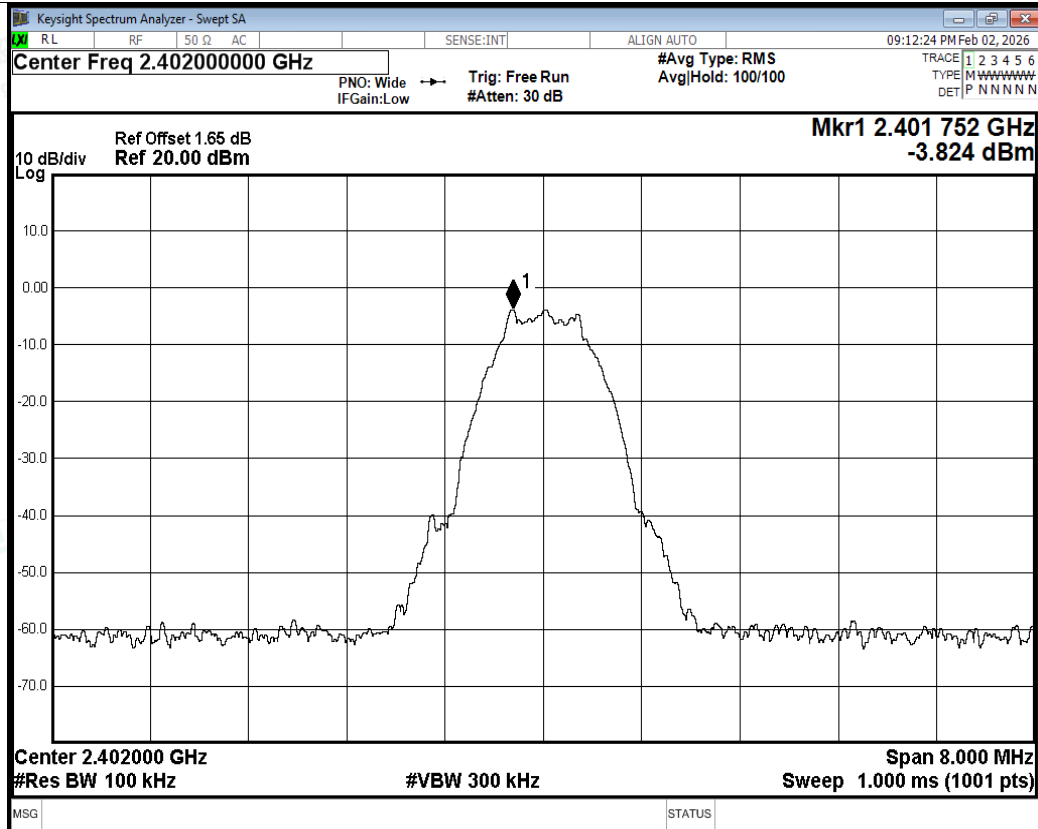
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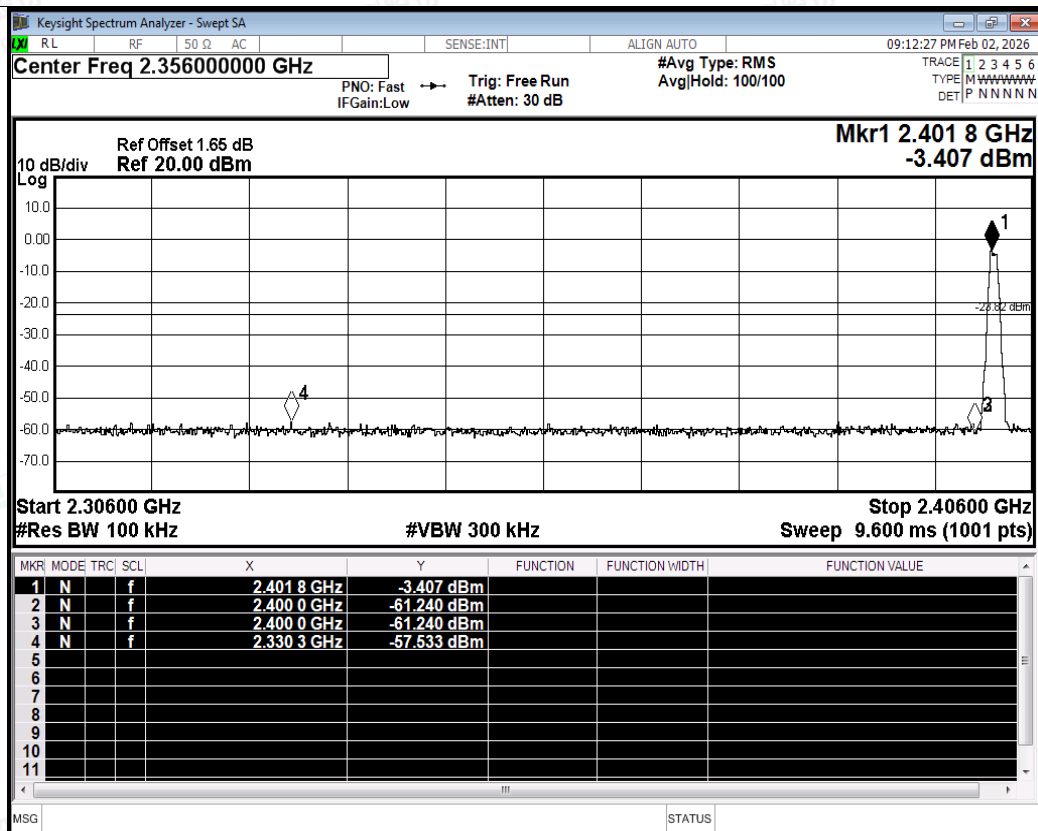
B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant0	-53.71	-20	Pass
NVNT	BLE 1M	2480	Ant0	-55.98	-20	Pass
NVNT	BLE 2M	2402	Ant0	-45.22	-20	Pass
NVNT	BLE 2M	2480	Ant0	-55.54	-20	Pass





Band Edge NVNT BLE 1M 2402MHz Ant0 Ref



Band Edge NVNT BLE 1M 2402MHz Ant0 Emission

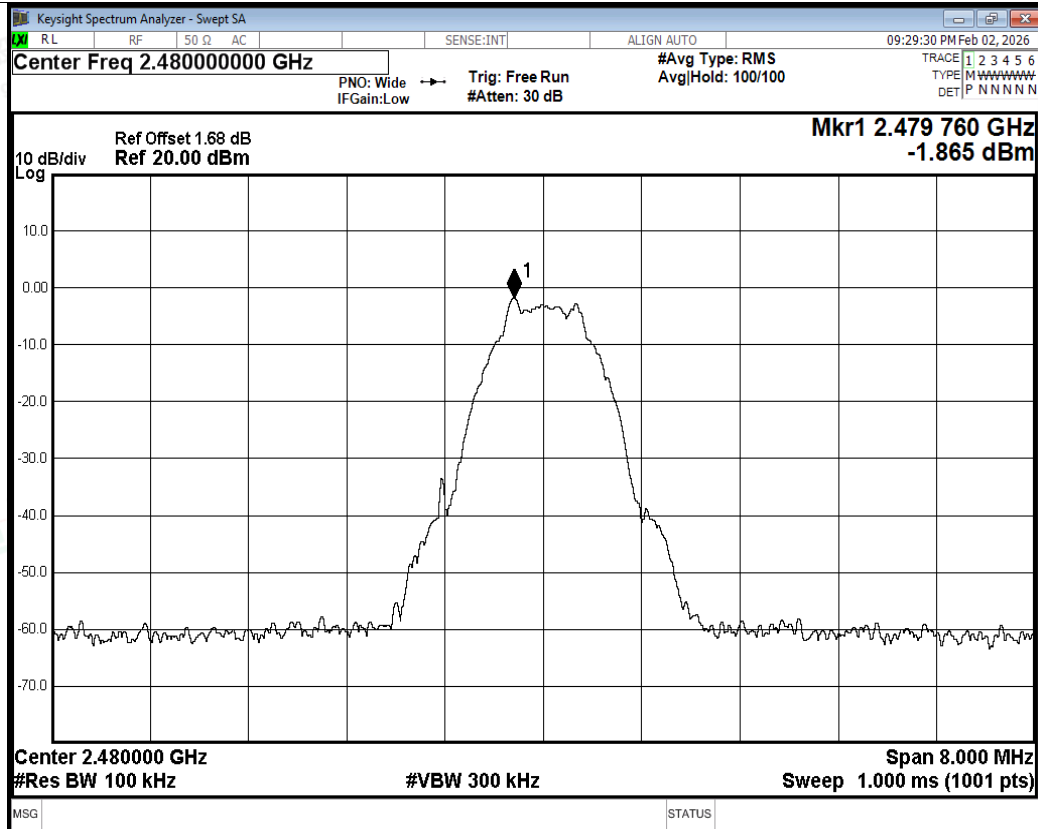


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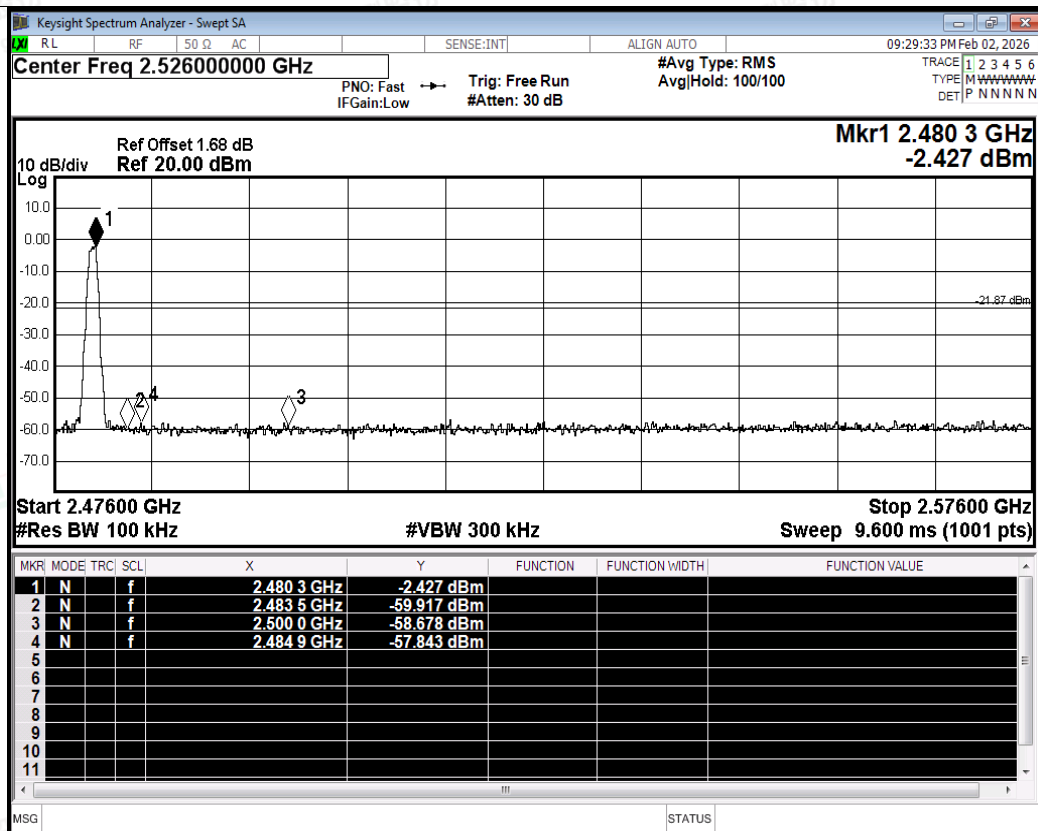
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Band Edge NVNT BLE 1M 2480MHz Ant0 Ref



Band Edge NVNT BLE 1M 2480MHz Ant0 Emission

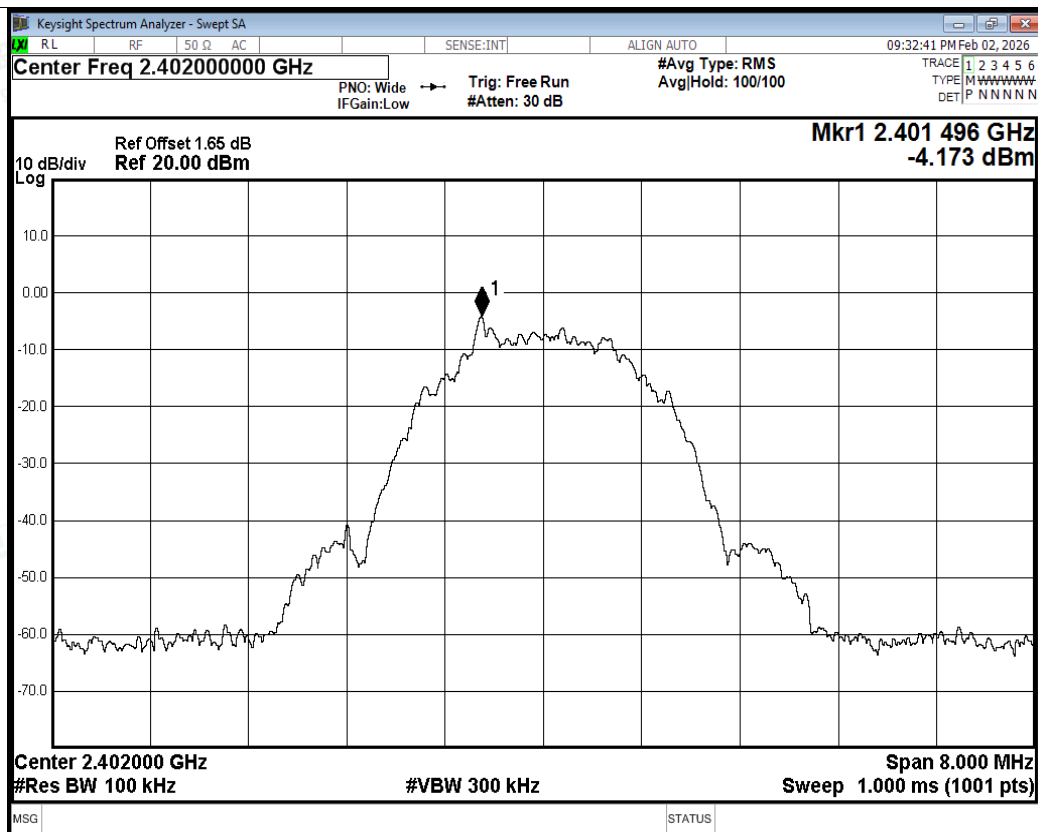


Shenzhen LCS Compliance Testing Laboratory Ltd.

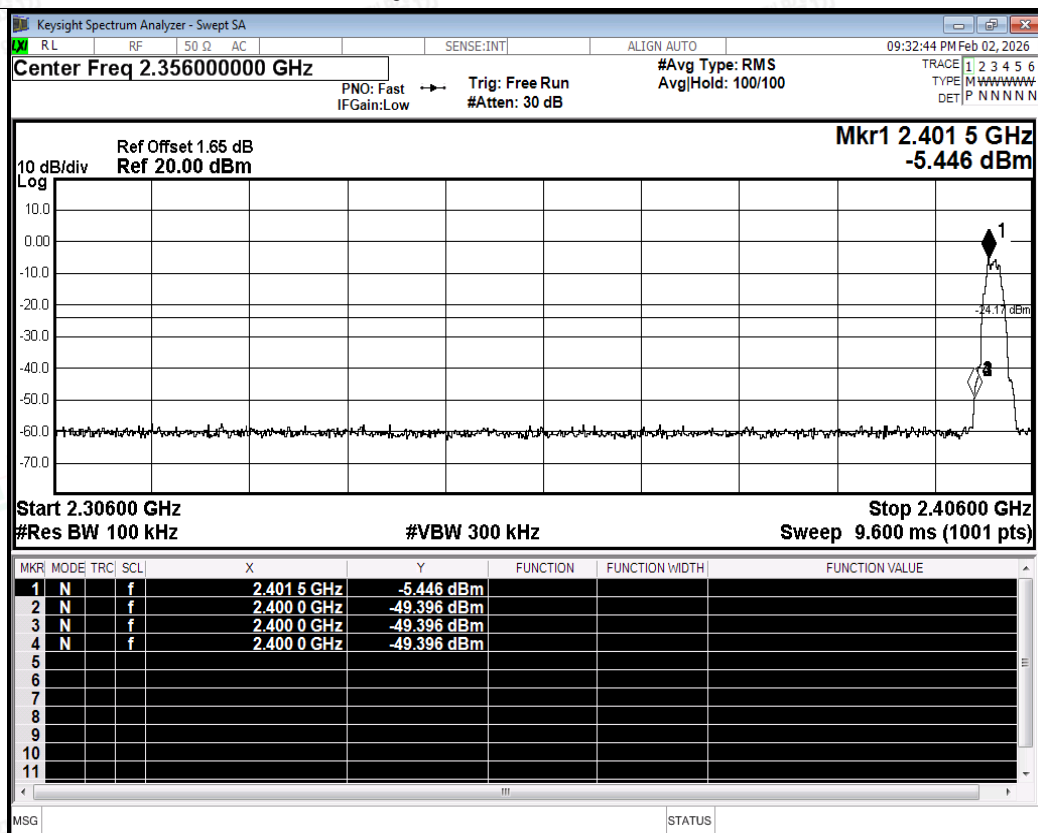
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Band Edge NVNT BLE 2M 2402MHz Ant0 Ref



Band Edge NVNT BLE 2M 2402MHz Ant0 Emission

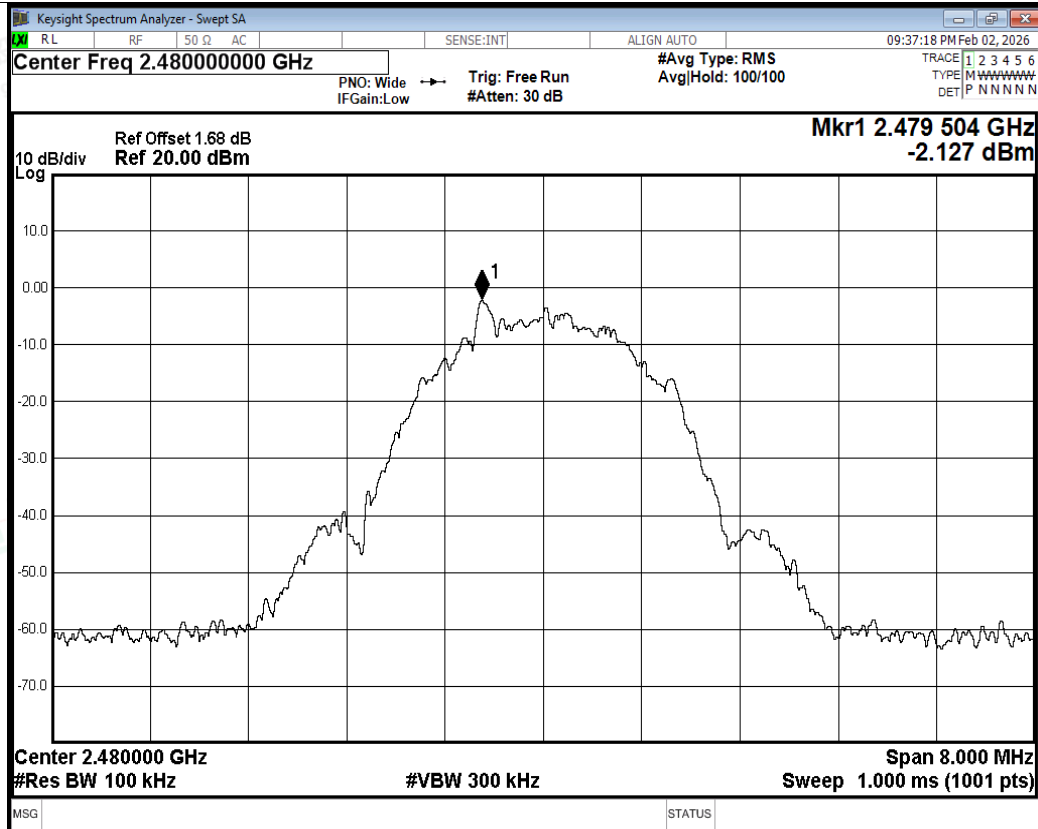


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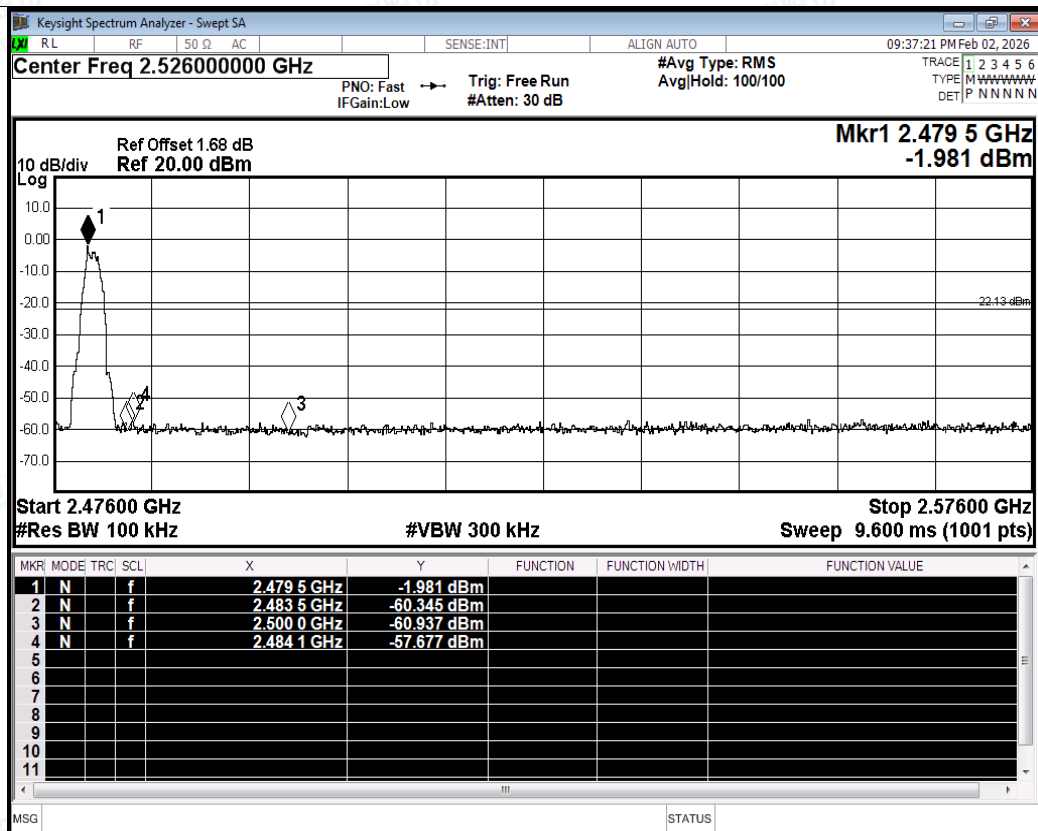
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Band Edge NVNT BLE 2M 2480MHz Ant0 Ref



Band Edge NVNT BLE 2M 2480MHz Ant0 Emission



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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	Ant0	-35.66	-20	Pass
NVNT	BLE 1M	2440	Ant0	-37.73	-20	Pass
NVNT	BLE 1M	2480	Ant0	-37	-20	Pass
NVNT	BLE 2M	2402	Ant0	-43.1	-20	Pass
NVNT	BLE 2M	2440	Ant0	-45.97	-20	Pass
NVNT	BLE 2M	2480	Ant0	-45.63	-20	Pass

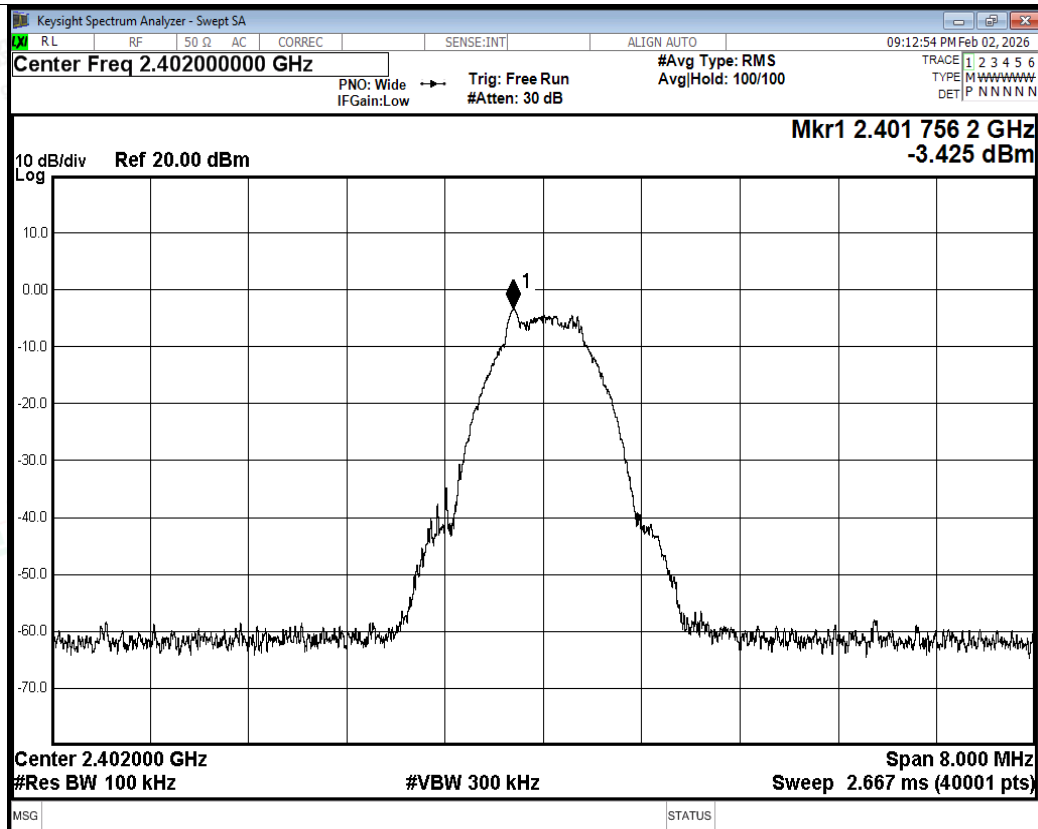


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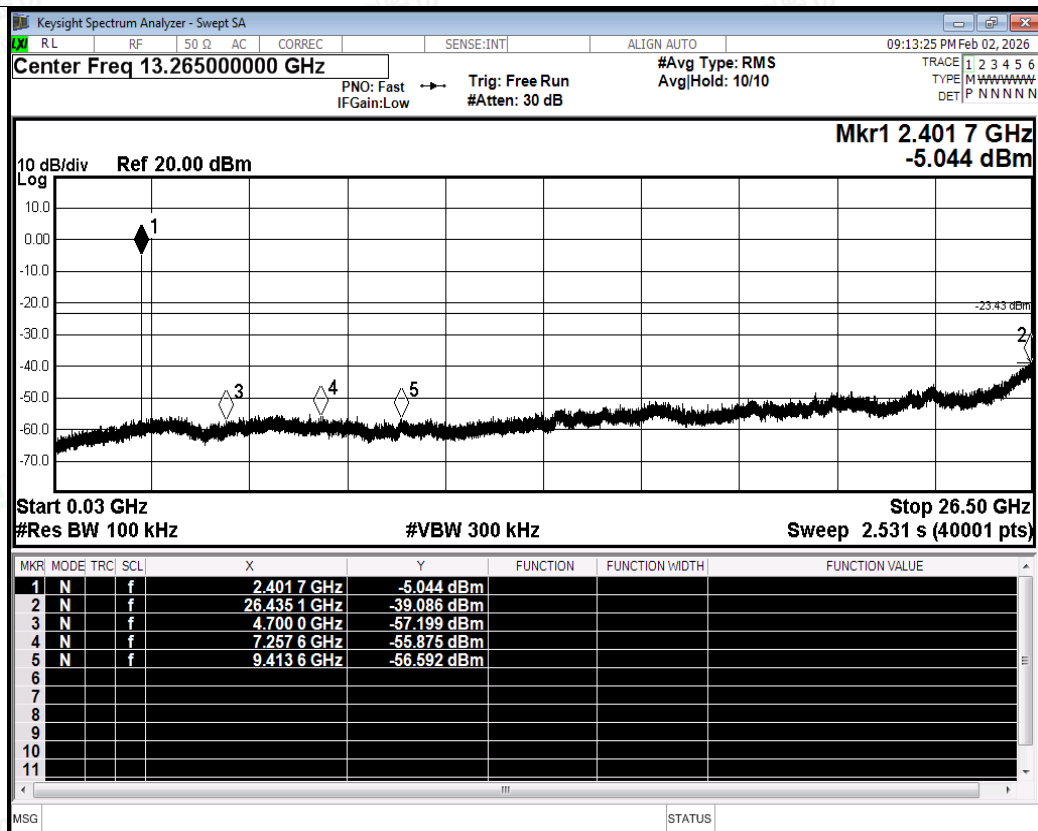
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Tx. Spurious NVNT BLE 1M 2402MHz Ant0 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant0 Emission

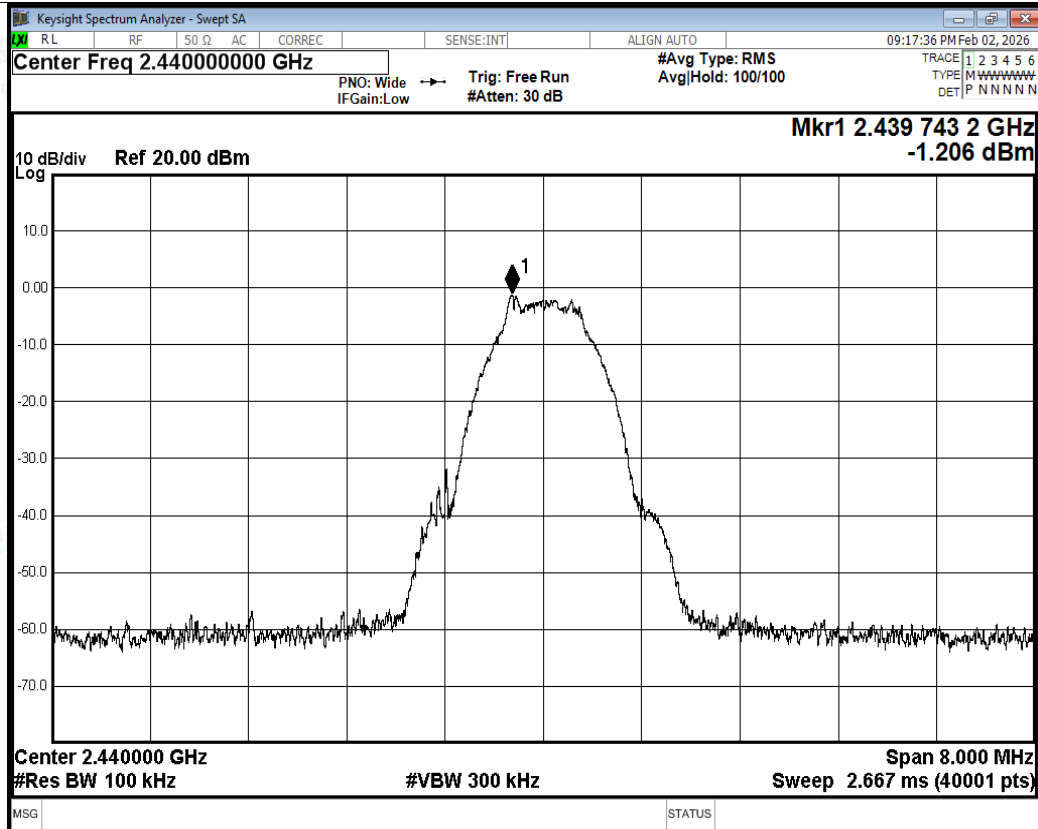


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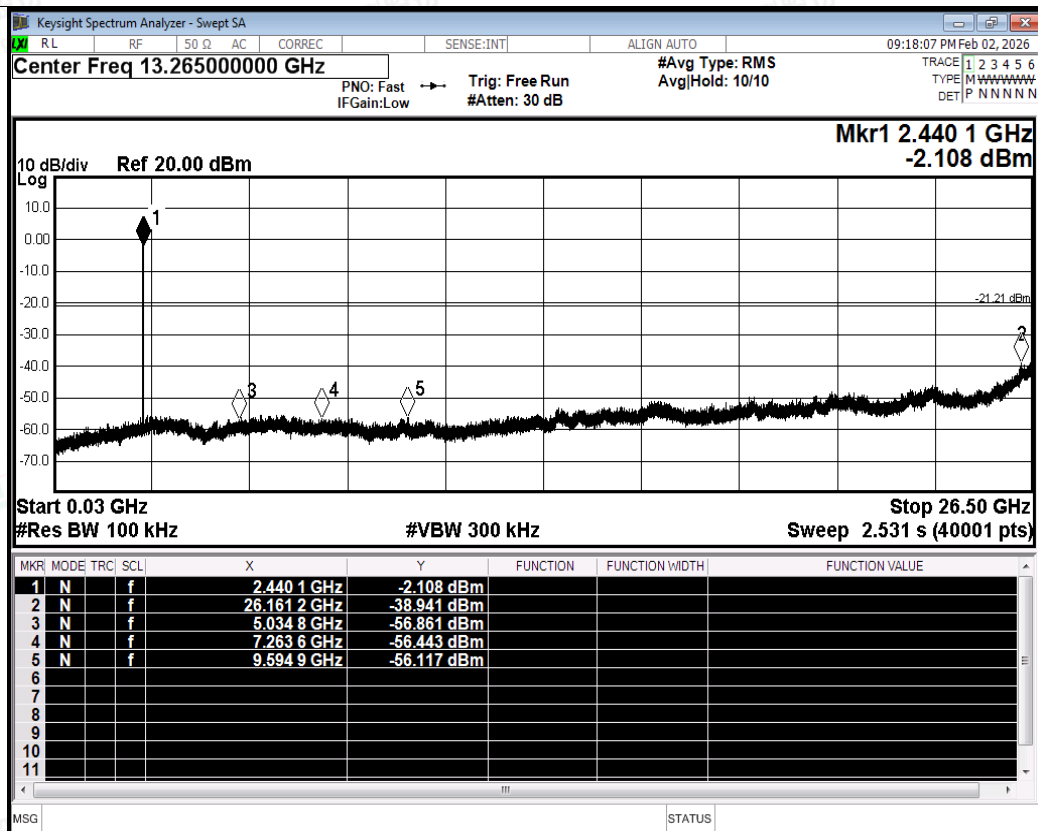
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Tx. Spurious NVNT BLE 1M 2440MHz Ant0 Ref



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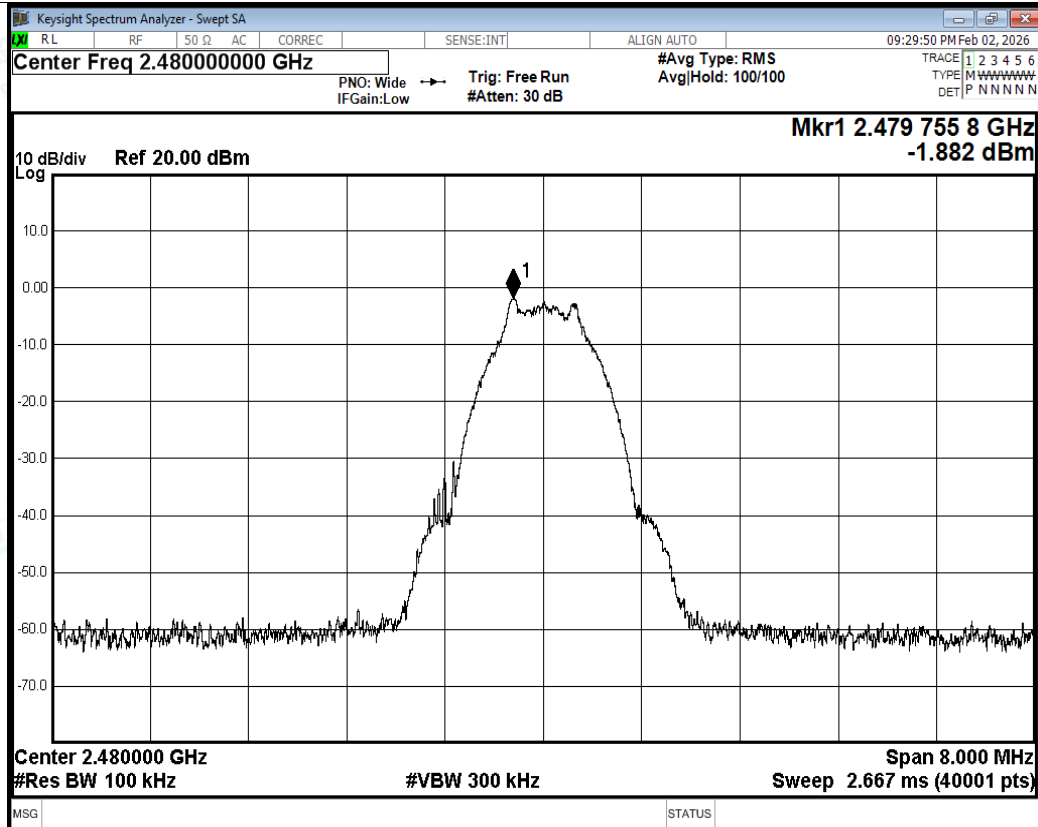


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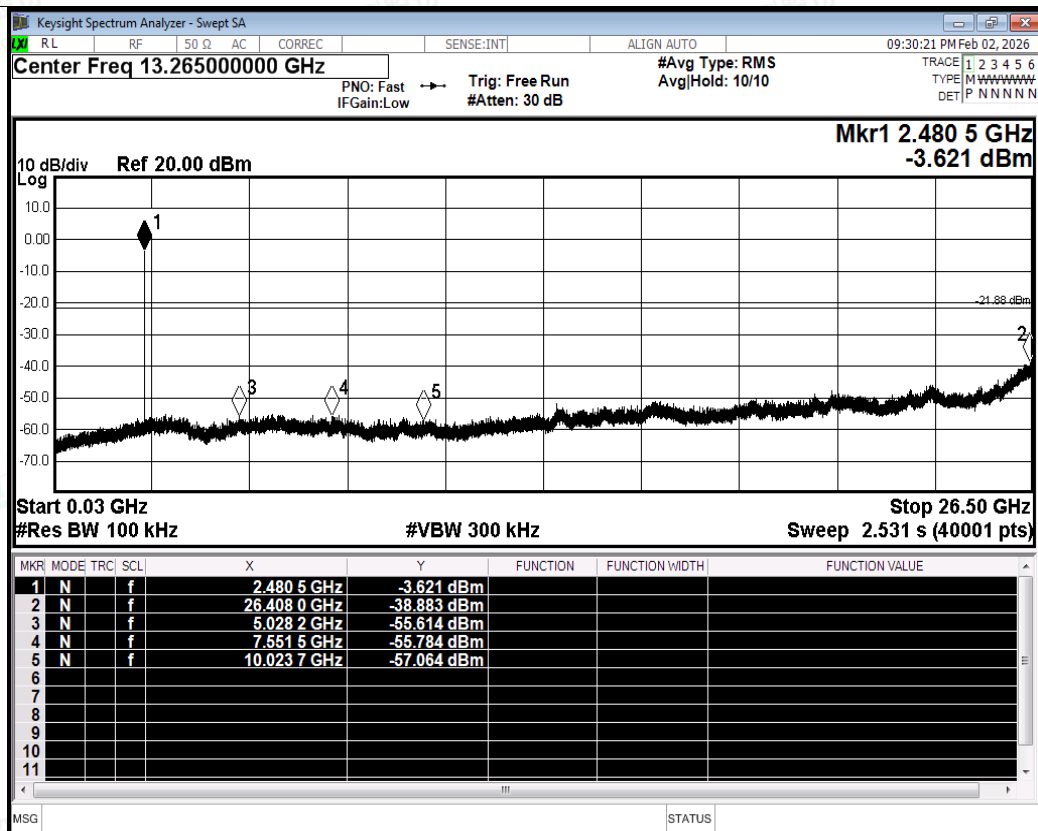
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Tx. Spurious NVNT BLE 1M 2480MHz Ant0 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant0 Emission

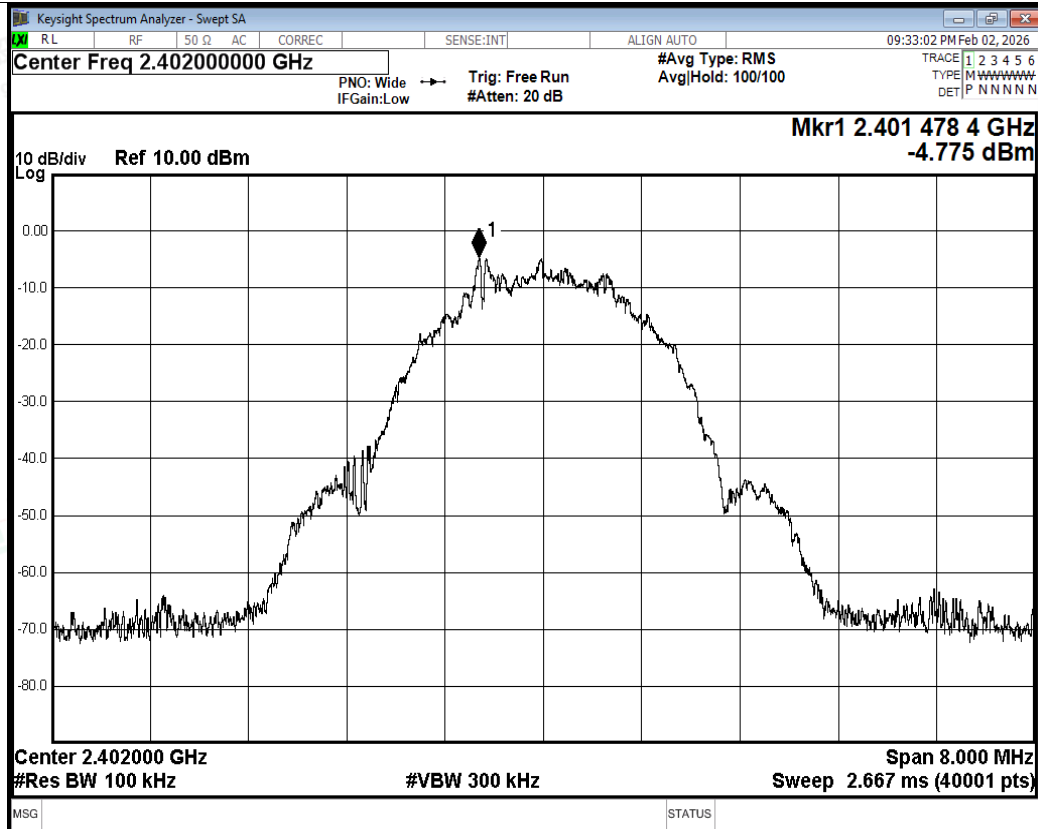


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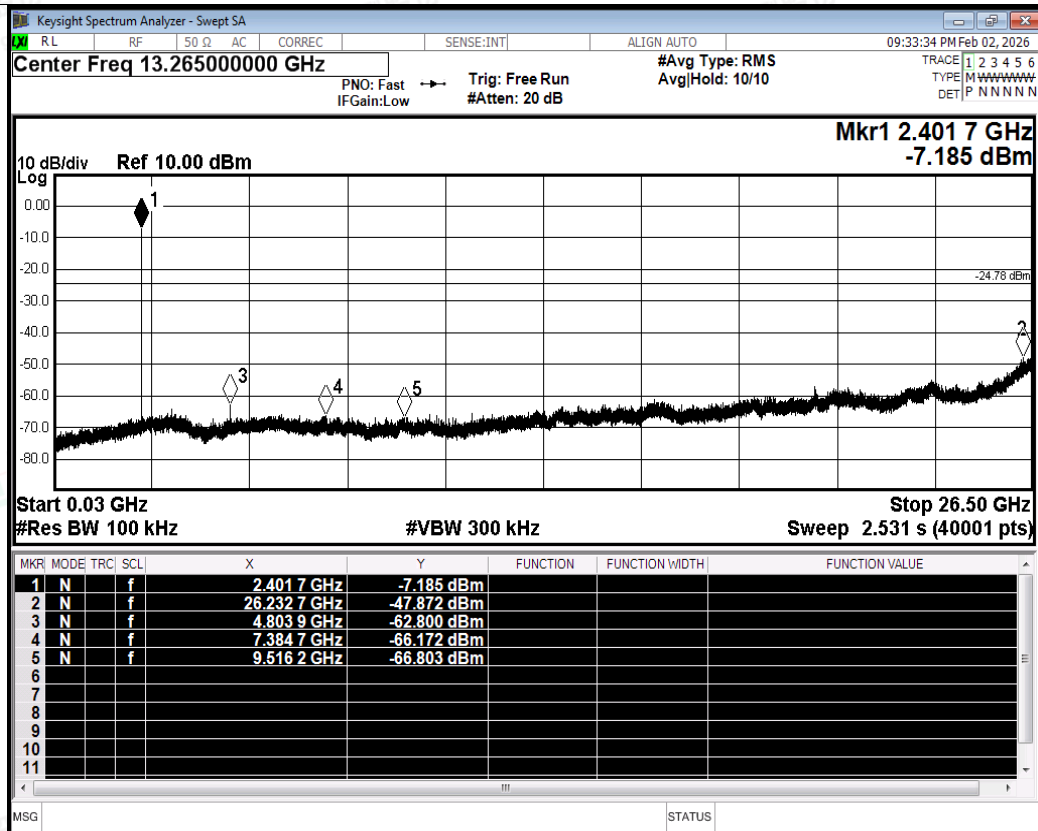
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Tx. Spurious NVNT BLE 2M 2402MHz Ant0 Emission

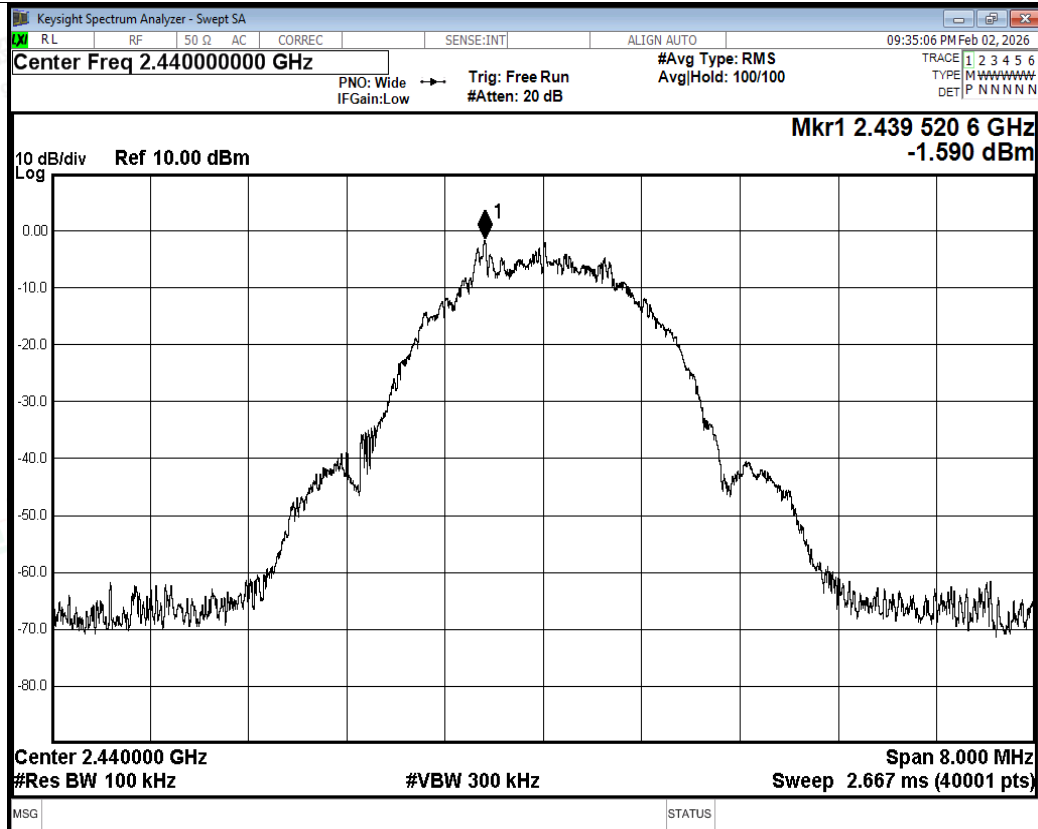


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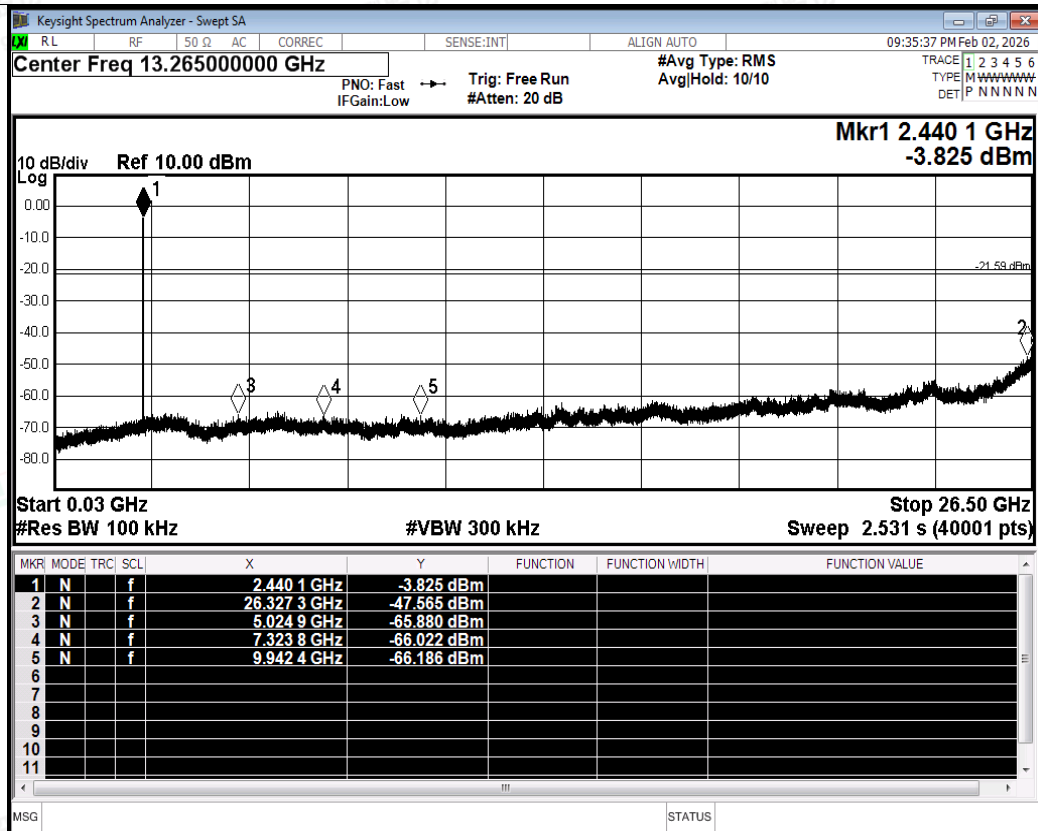
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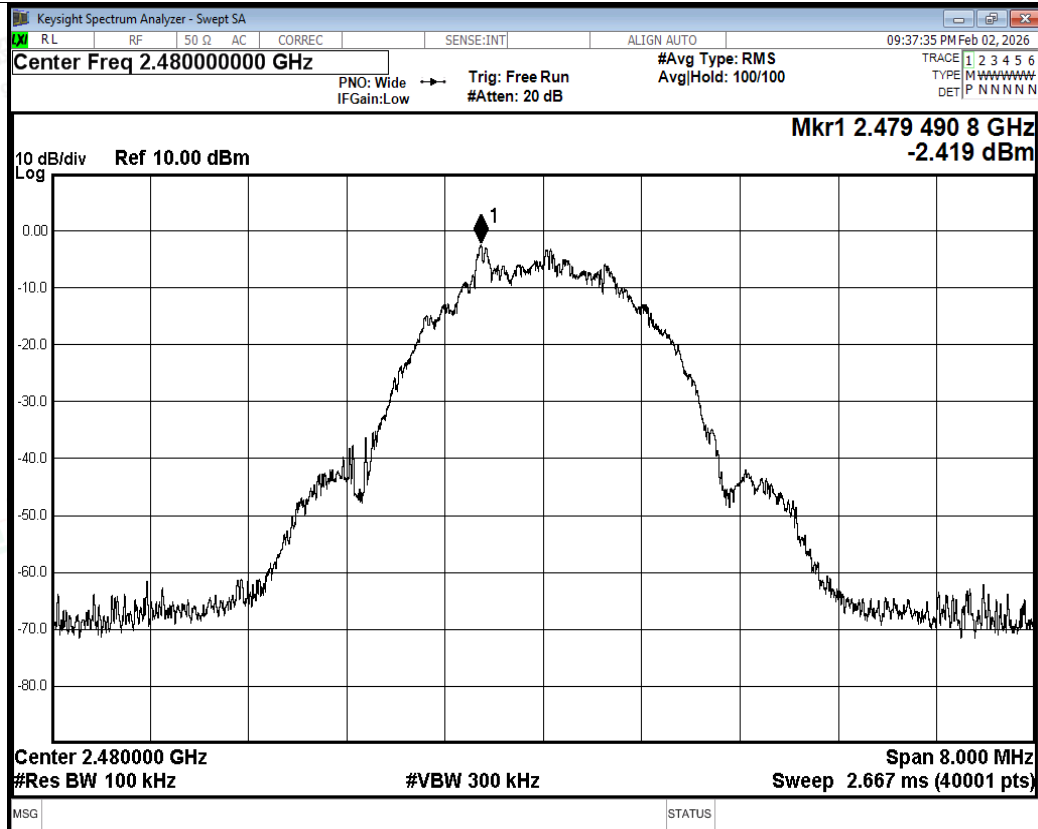


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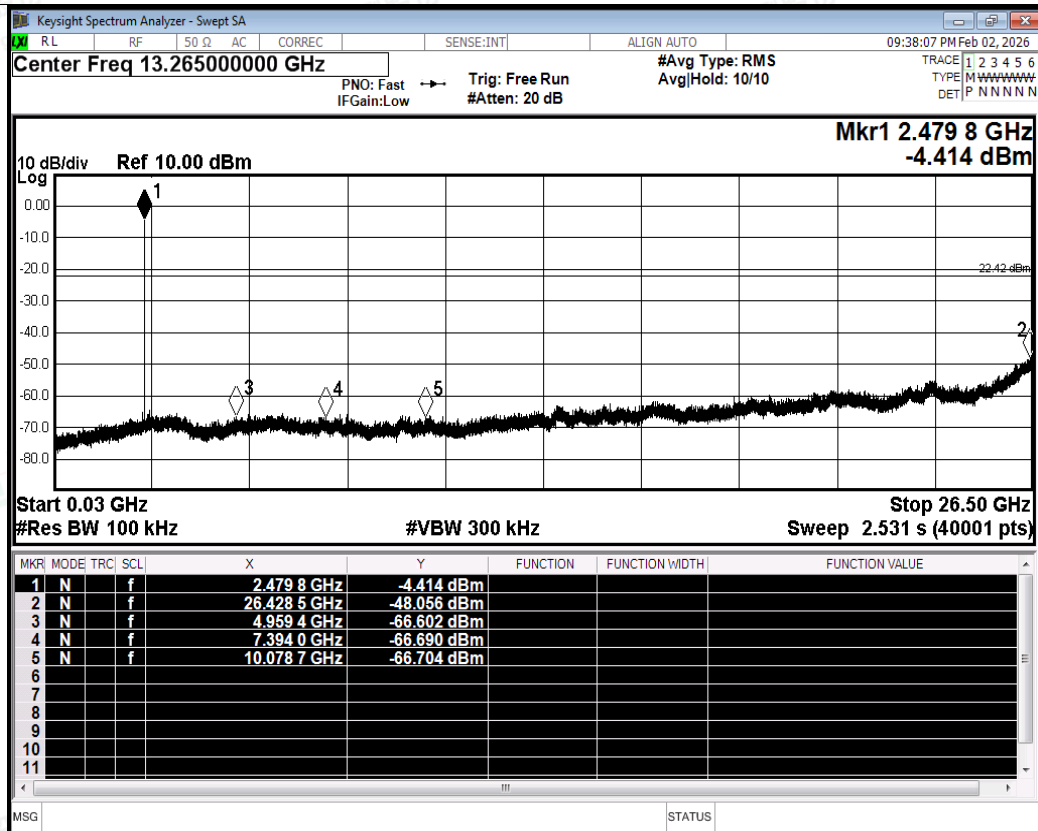
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Tx. Spurious NVNT BLE 2M 2480MHz Ant0 Emission



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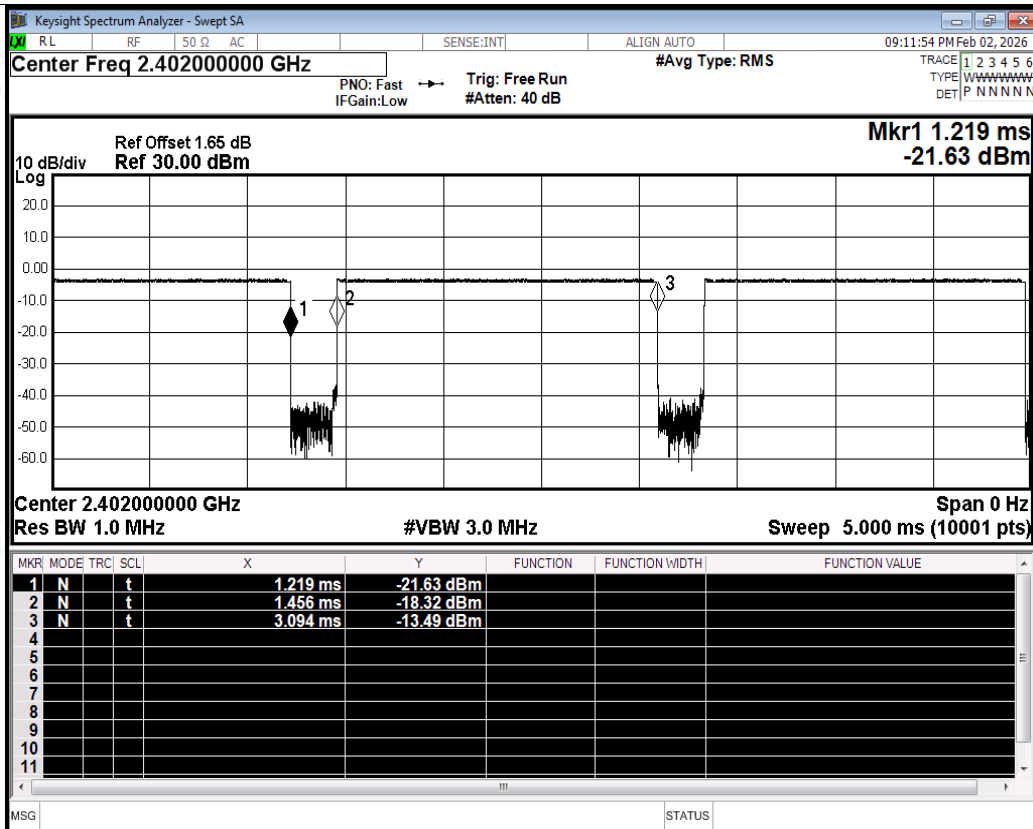
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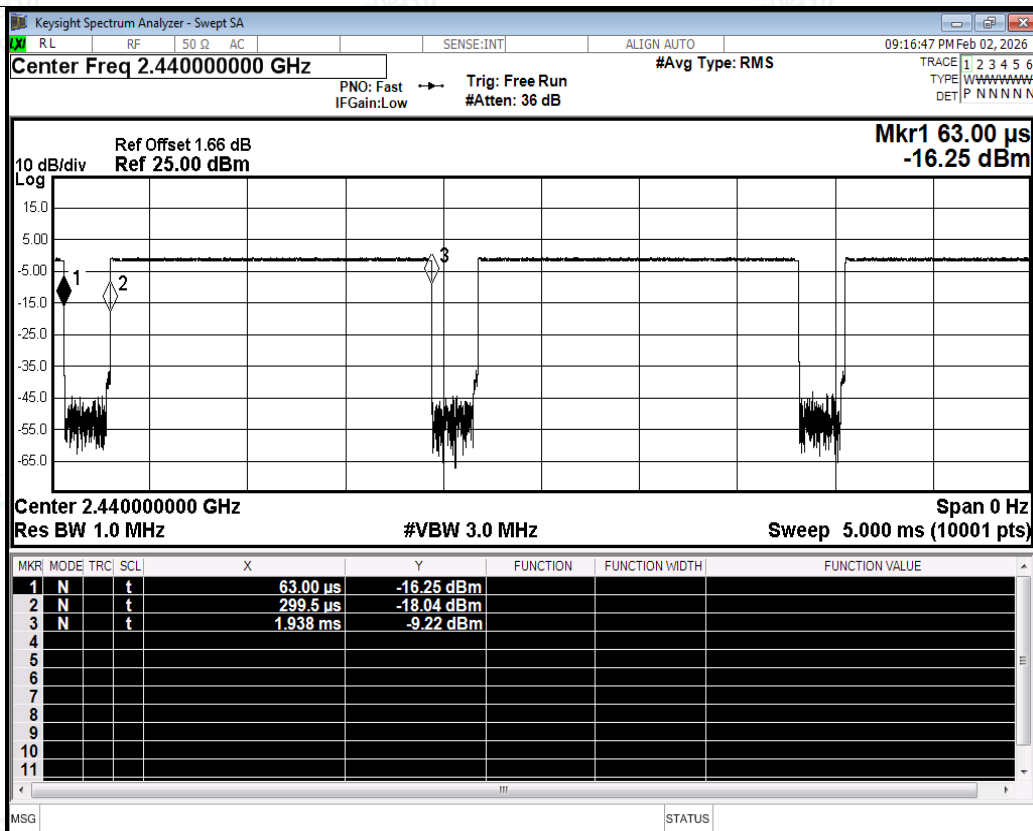
B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Ant0enna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant0	87.39	0.59	0.61
NVNT	BLE 1M	2440	Ant0	87.39	0.59	0.61
NVNT	BLE 1M	2480	Ant0	87.36	0.59	0.61
NVNT	BLE 2M	2402	Ant0	65.96	1.81	1.21
NVNT	BLE 2M	2440	Ant0	65.96	1.81	1.21
NVNT	BLE 2M	2480	Ant0	65.96	1.81	1.21





Duty Cycle NVNT BLE 1M 2402MHz Ant0



Duty Cycle NVNT BLE 1M 2440MHz Ant0

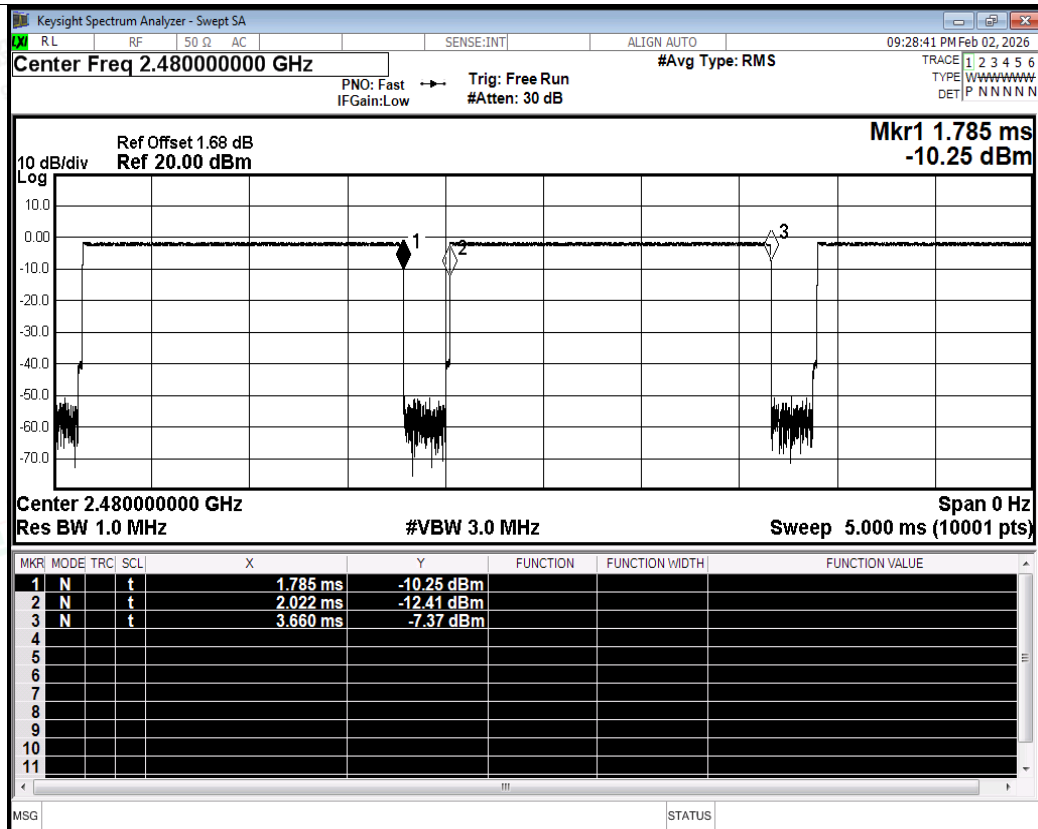


Shenzhen LCS Compliance Testing Laboratory Ltd.

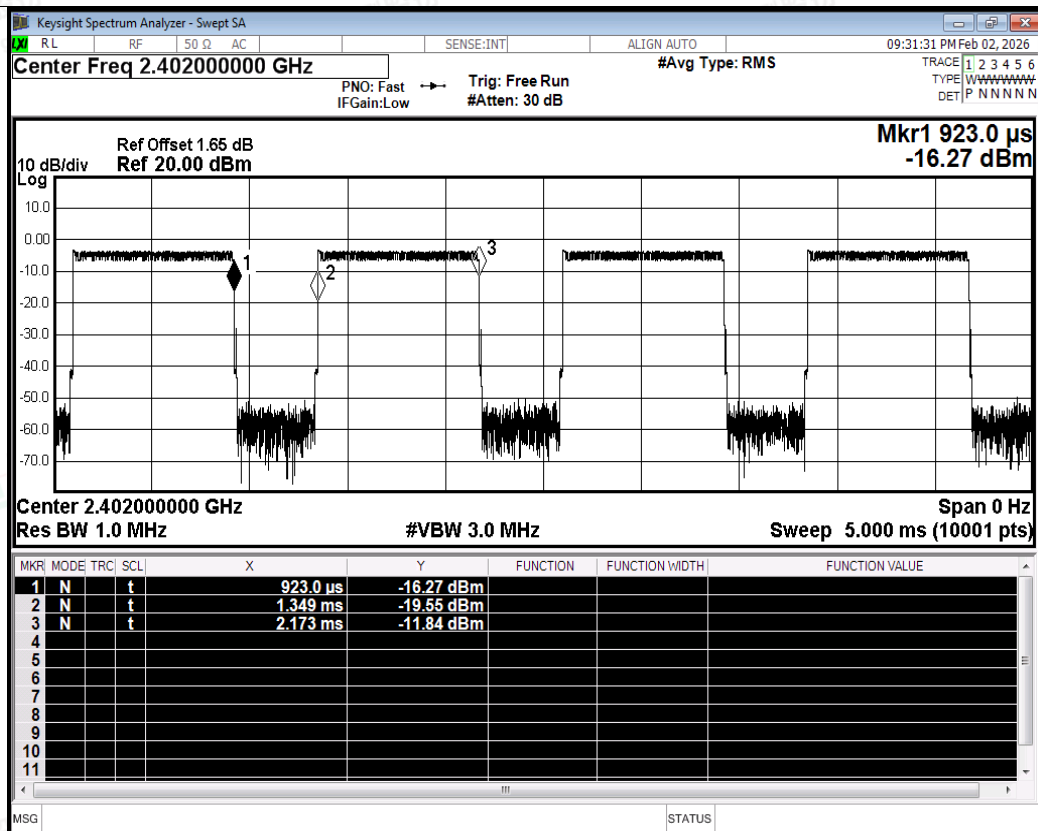
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Duty Cycle NVNT BLE 1M 2480MHz Ant0



Duty Cycle NVNT BLE 2M 2402MHz Ant0

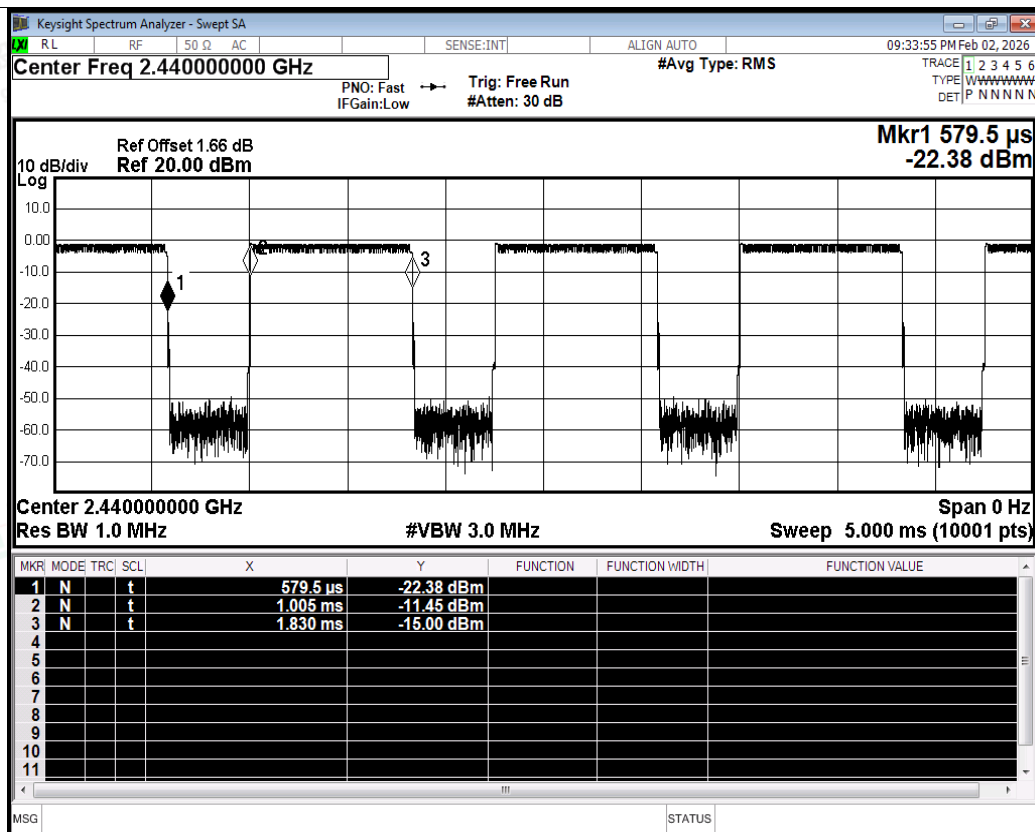


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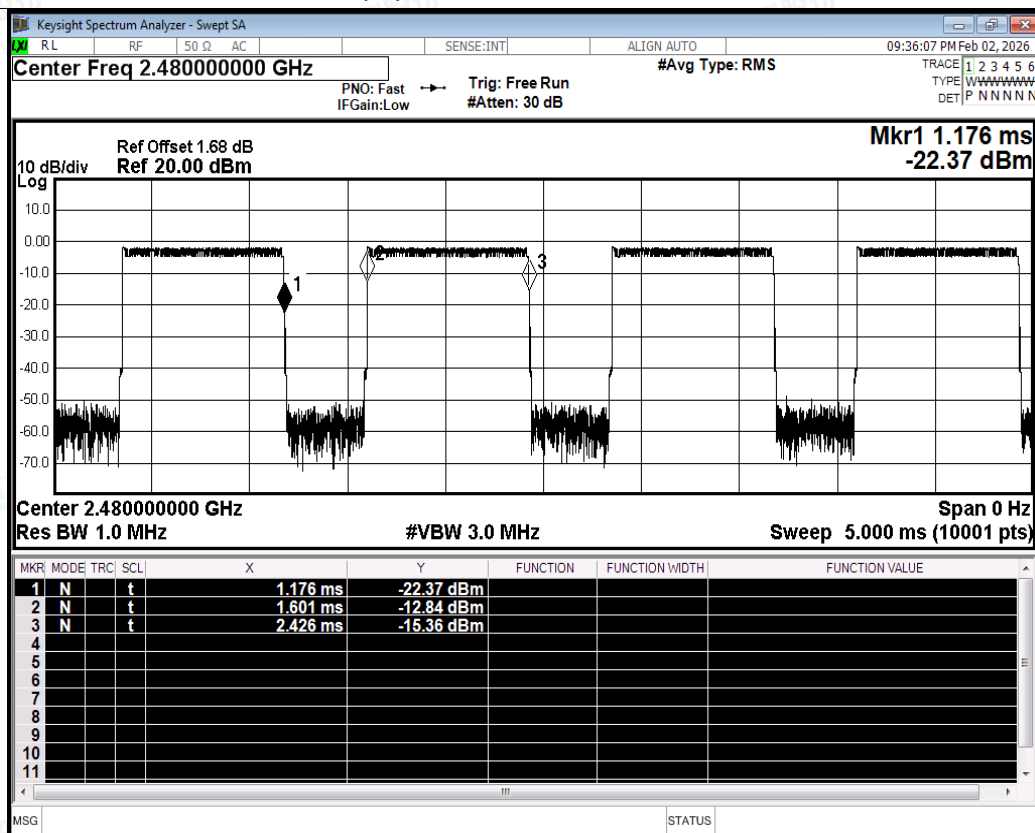
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Duty Cycle NVNT BLE 2M 2480MHz Ant0



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	Ant0	2310	-54.1	2	43.16	Peak	74	Pass
NVNT	BLE 1M	2402	Ant0	2310	-60.01	2	37.25	Average	54	Pass
NVNT	BLE 1M	2402	Ant0	2310.48	-50.19	2	47.07	Peak	74	Pass
NVNT	BLE 1M	2402	Ant0	2320.272	-59.87	2	37.39	Average	54	Pass
NVNT	BLE 1M	2402	Ant0	2390	-52.51	2	44.75	Peak	74	Pass
NVNT	BLE 1M	2402	Ant0	2390	-60.16	2	37.1	Average	54	Pass
NVNT	BLE 1M	2480	Ant0	2483.5	-52.43	2	44.83	Peak	74	Pass
NVNT	BLE 1M	2480	Ant0	2483.5	-58.16	2	39.1	Average	54	Pass
NVNT	BLE 1M	2480	Ant0	2484.256	-46.45	2	50.81	Peak	74	Pass
NVNT	BLE 1M	2480	Ant0	2483.512	-58.16	2	39.1	Average	54	Pass
NVNT	BLE 1M	2480	Ant0	2500	-52.97	2	44.29	Peak	74	Pass
NVNT	BLE 1M	2480	Ant0	2500	-59.9	2	37.36	Average	54	Pass
NVNT	BLE 2M	2402	Ant0	2310	-52.69	2	44.57	Peak	74	Pass
NVNT	BLE 2M	2402	Ant0	2310	-59.94	2	37.32	Average	54	Pass
NVNT	BLE 2M	2402	Ant0	2319.312	-49.6	2	47.66	Peak	74	Pass
NVNT	BLE 2M	2402	Ant0	2315.088	-59.56	2	37.7	Average	54	Pass
NVNT	BLE 2M	2402	Ant0	2390	-53.51	2	43.75	Peak	74	Pass
NVNT	BLE 2M	2402	Ant0	2390	-60.06	2	37.2	Average	54	Pass
NVNT	BLE 2M	2480	Ant0	2483.5	-51.95	2	45.31	Peak	74	Pass
NVNT	BLE 2M	2480	Ant0	2483.5	-55.9	2	41.36	Average	54	Pass
NVNT	BLE 2M	2480	Ant0	2485.648	-46.36	2	50.9	Peak	74	Pass
NVNT	BLE 2M	2480	Ant0	2483.512	-55.9	2	41.36	Average	54	Pass
NVNT	BLE 2M	2480	Ant0	2500	-53.43	2	43.83	Peak	74	Pass
NVNT	BLE 2M	2480	Ant0	2500	-59.6	2	37.66	Average	54	Pass

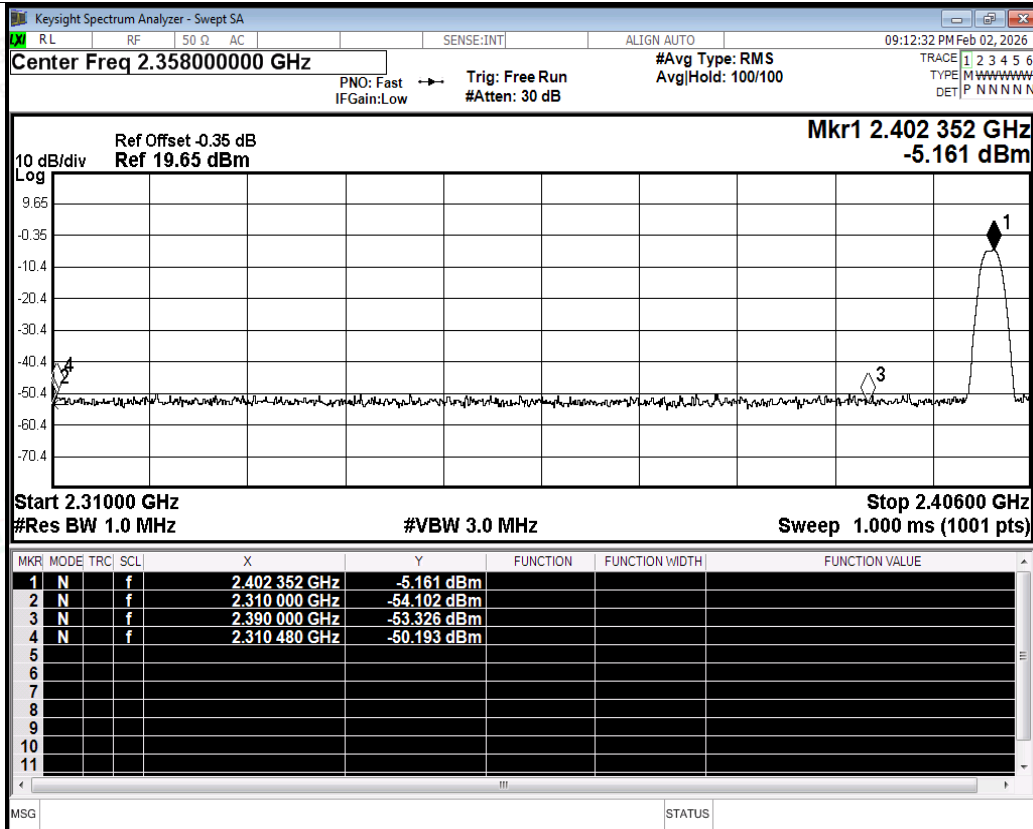


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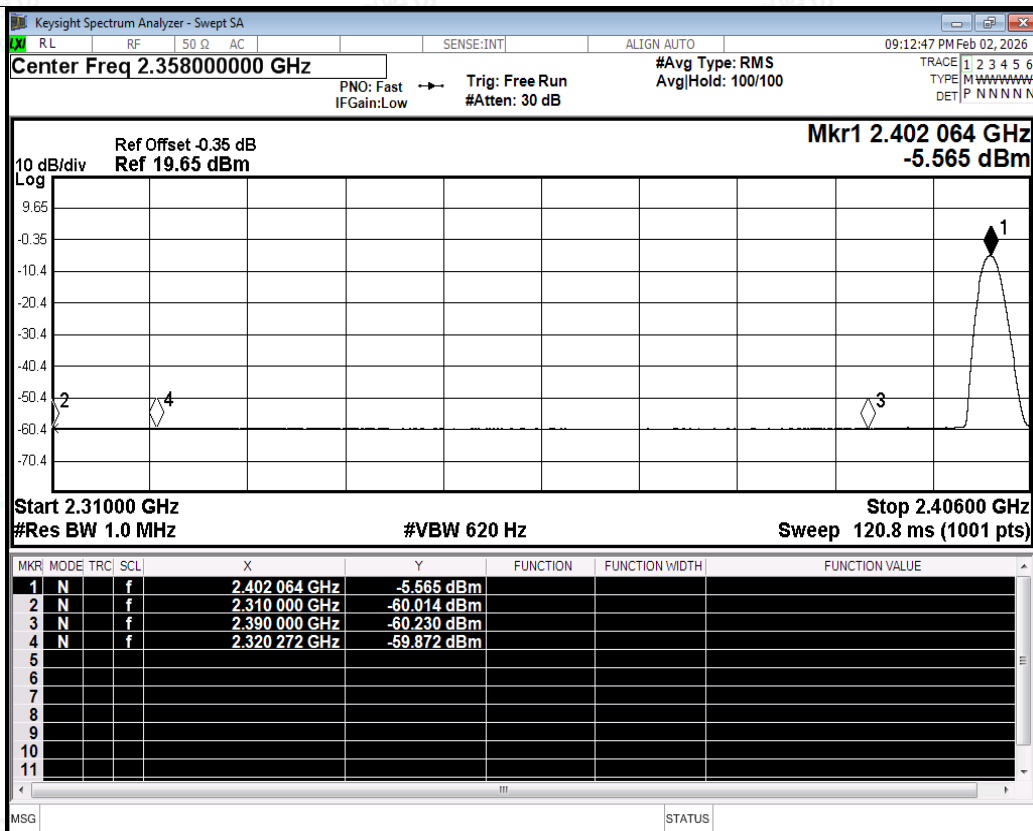
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Restrict Band NVNT BLE 1M 2402MHz Ant0 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant0 Average

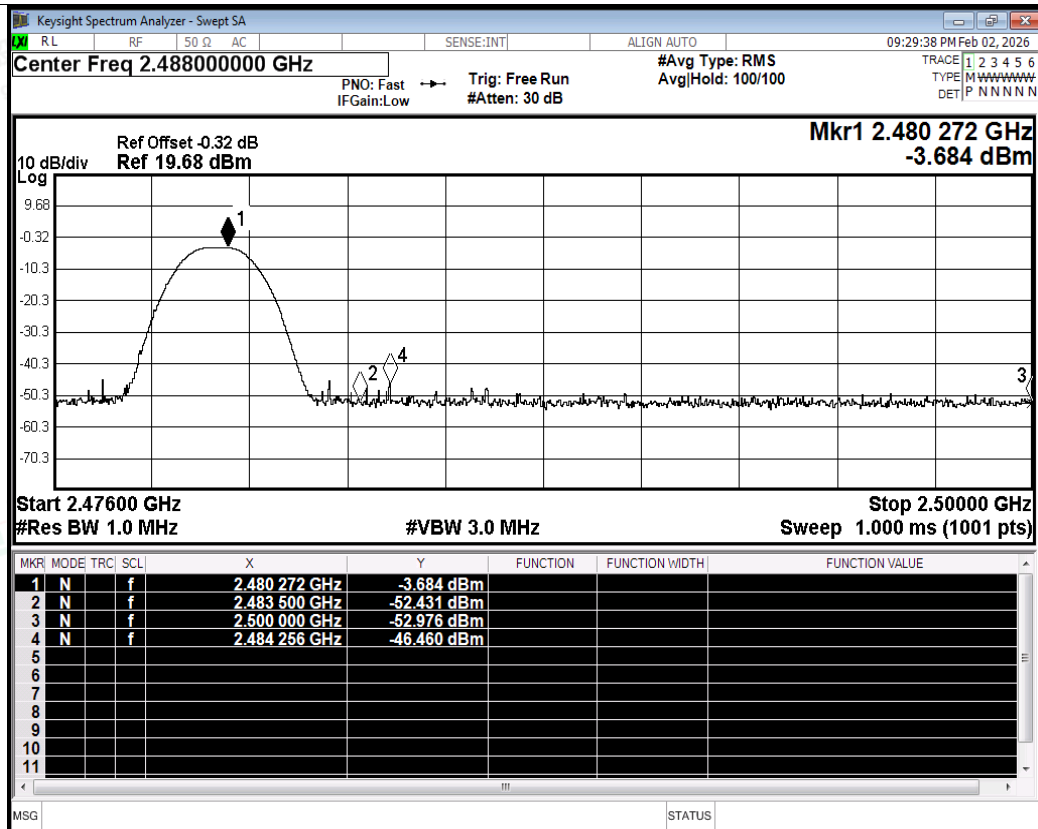


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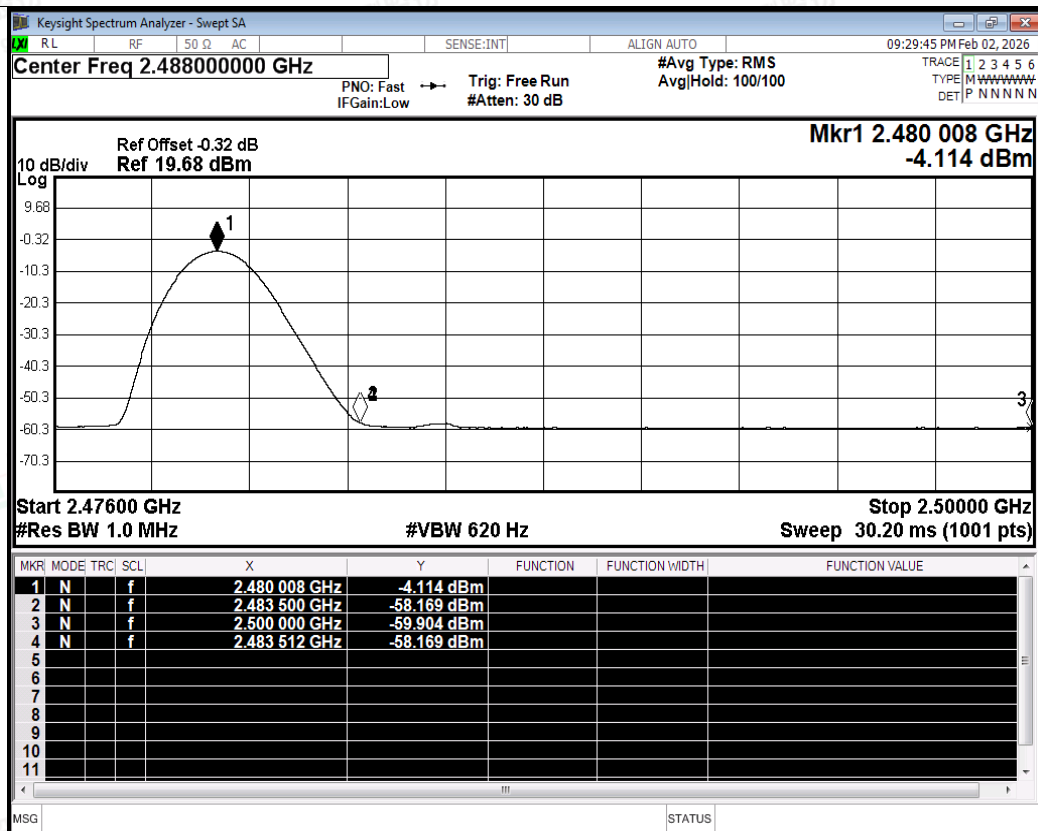
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Restrict Band NVNT BLE 1M 2480MHz Ant0 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant0 Average

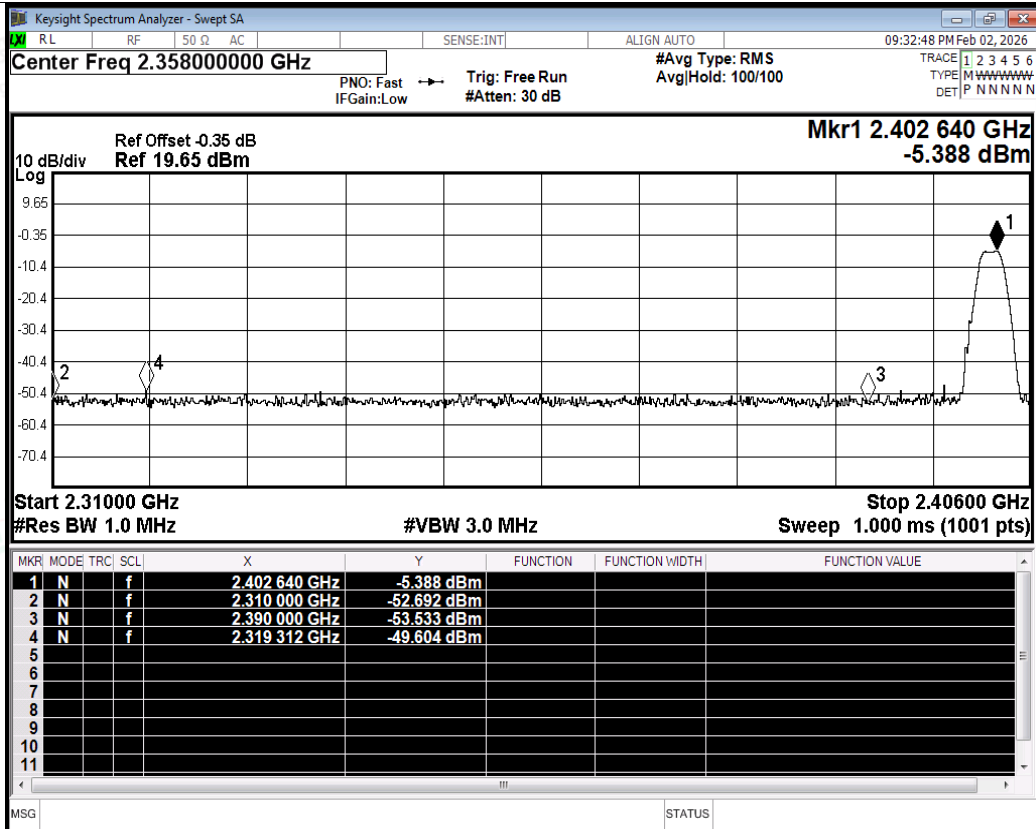


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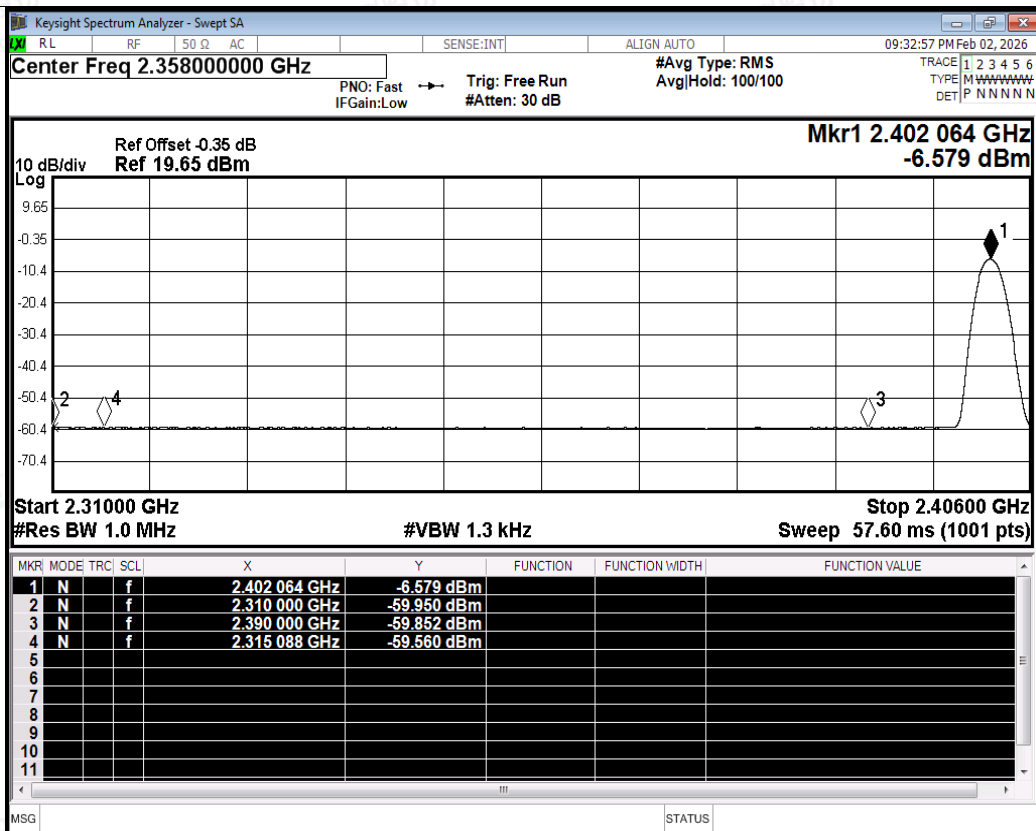
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Restrict Band NVNT BLE 2M 2402MHz Ant0 Peak



Restrict Band NVNT BLE 2M 2402MHz Ant0 Average

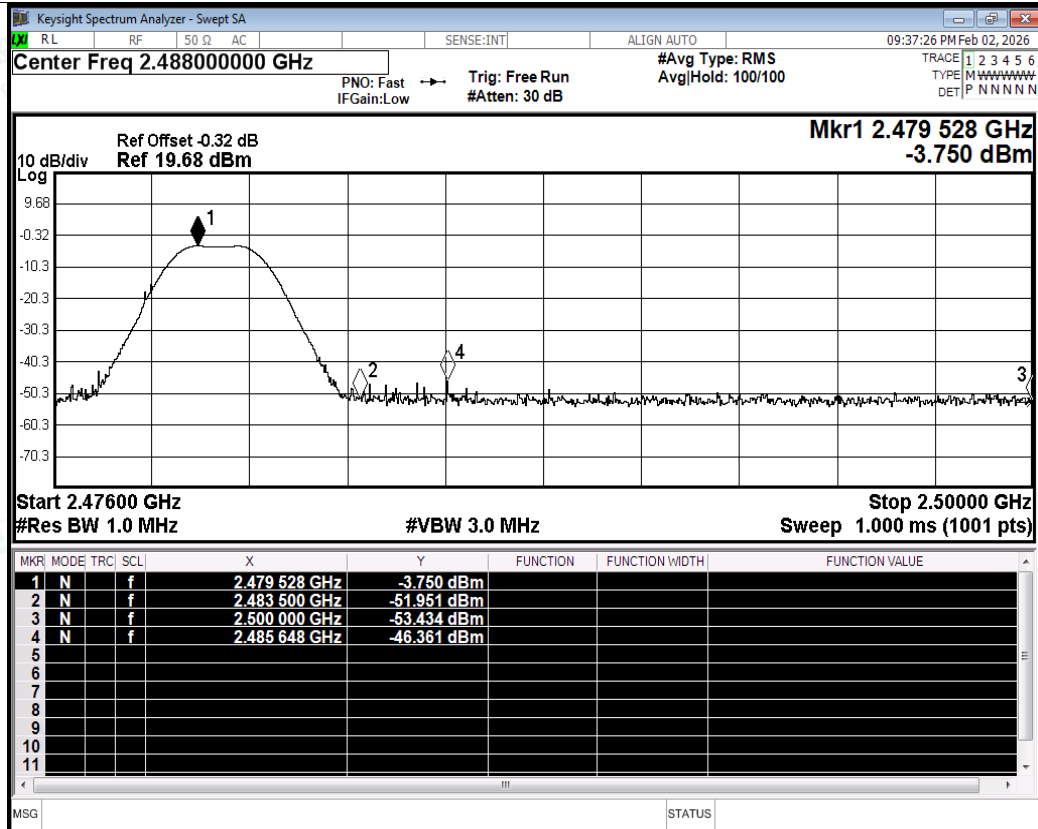


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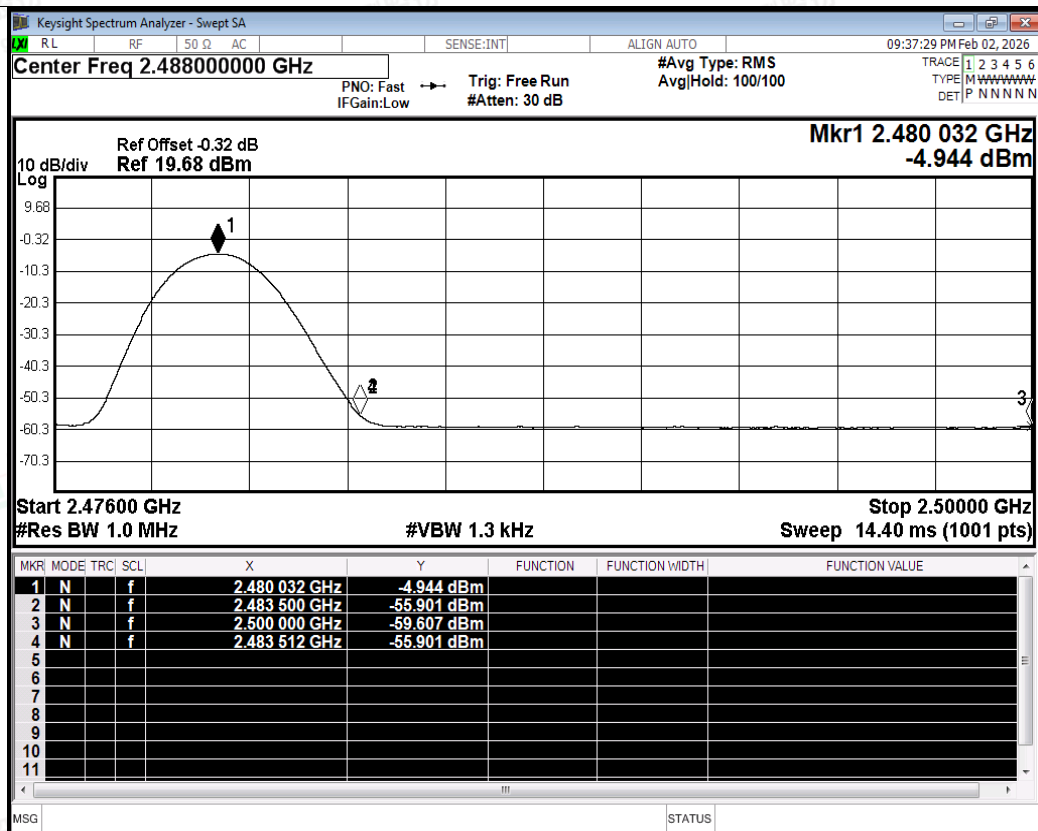
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Restrict Band NVNT BLE 2M 2480MHz Ant0 Average



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