



Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: WellBody 5, WellBody 3

Test Model: LM-22WB5

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	0.66	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.656	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.629	≥ 0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.27	≥ 0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.309	≥ 0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.395	≥ 0.5	Pass



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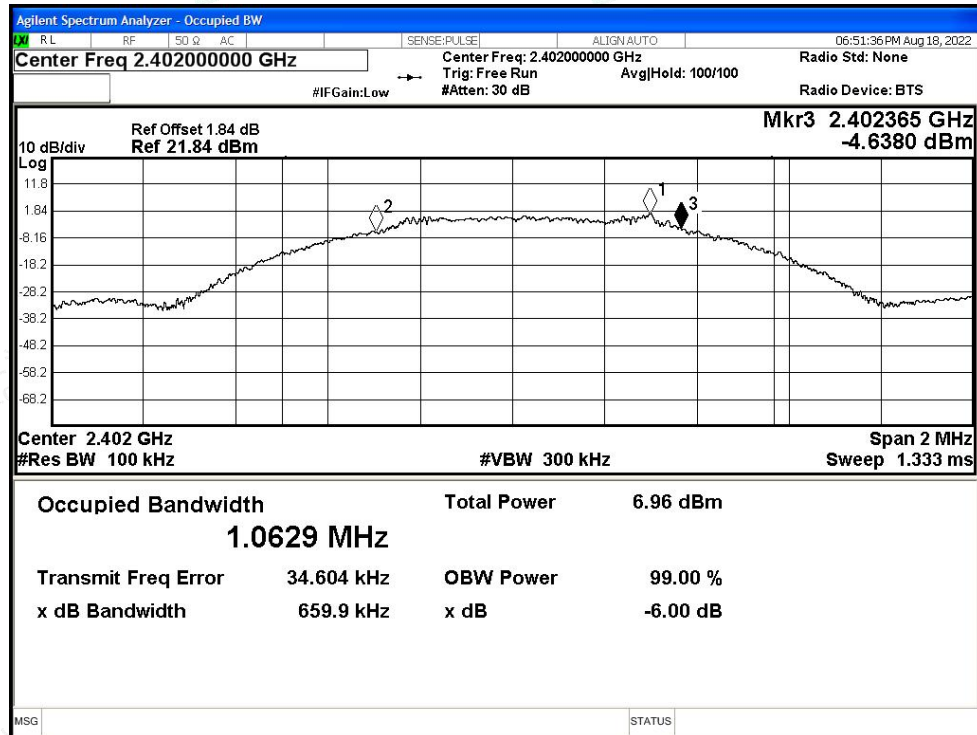
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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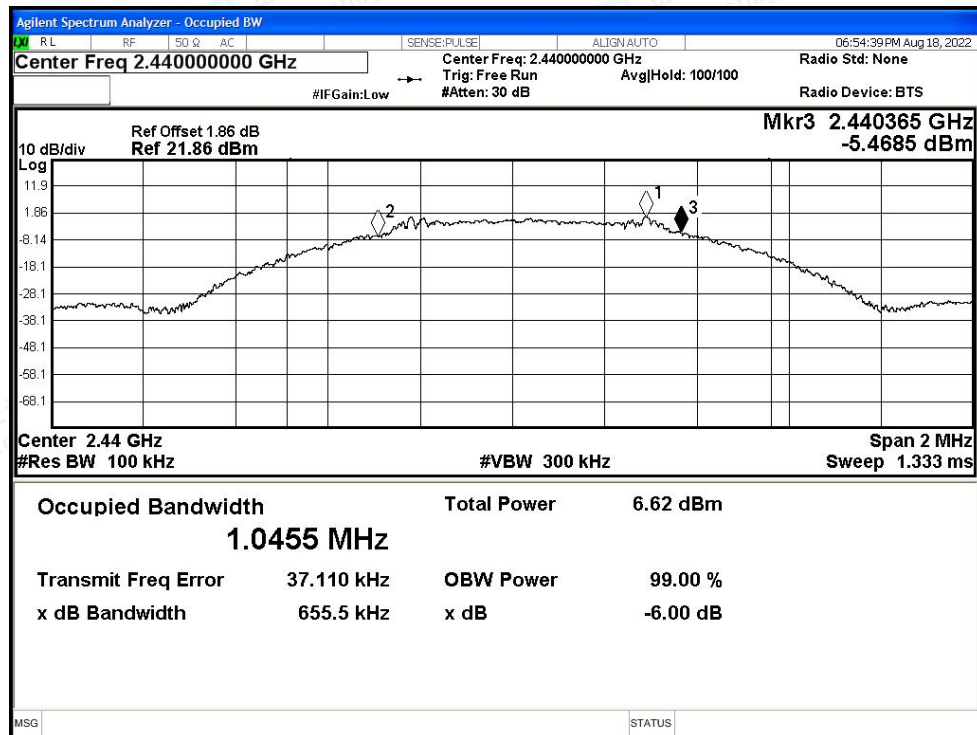


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



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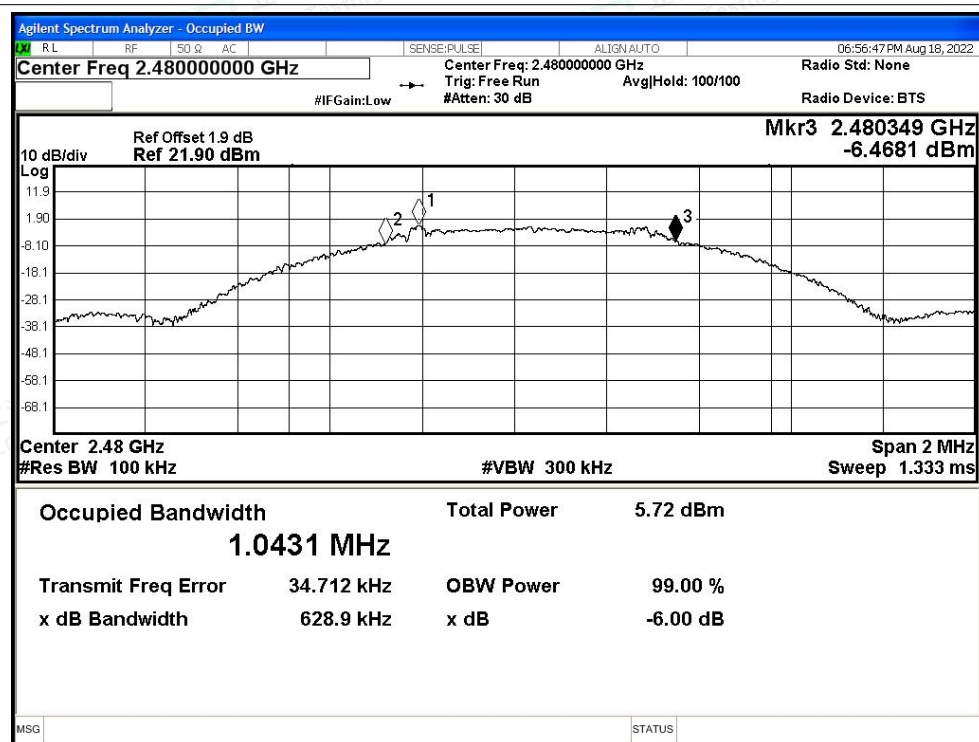
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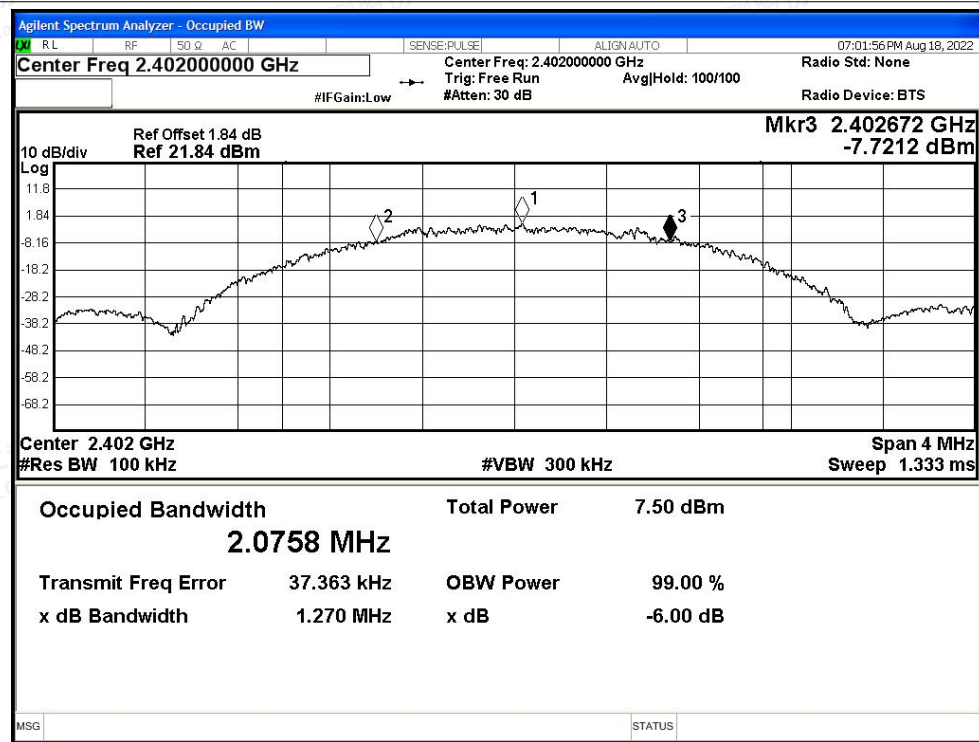
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-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



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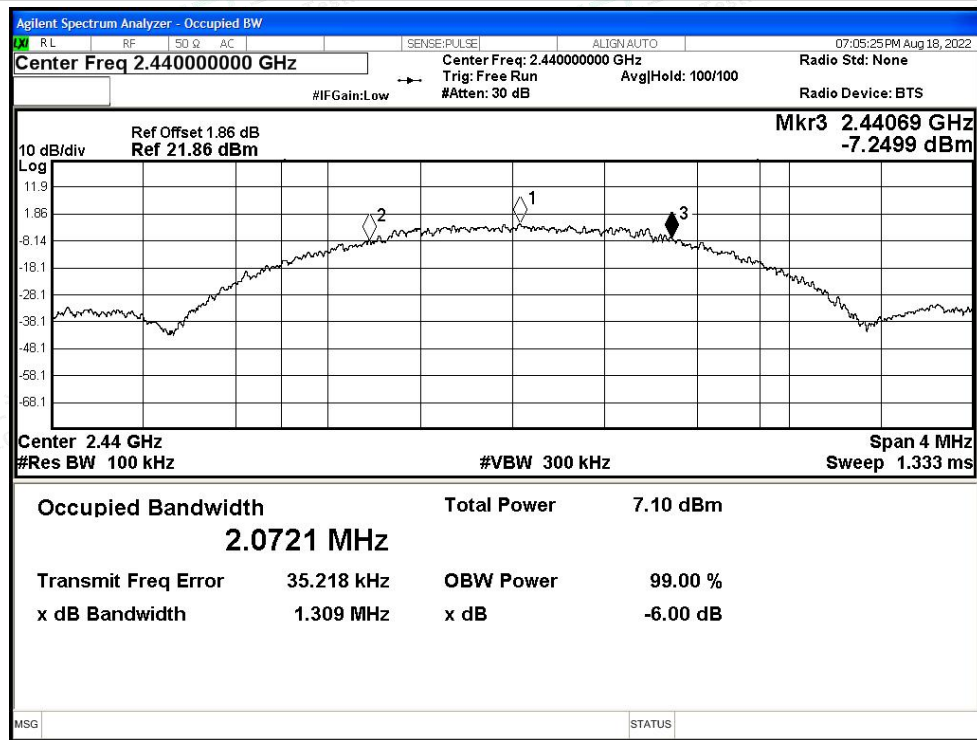
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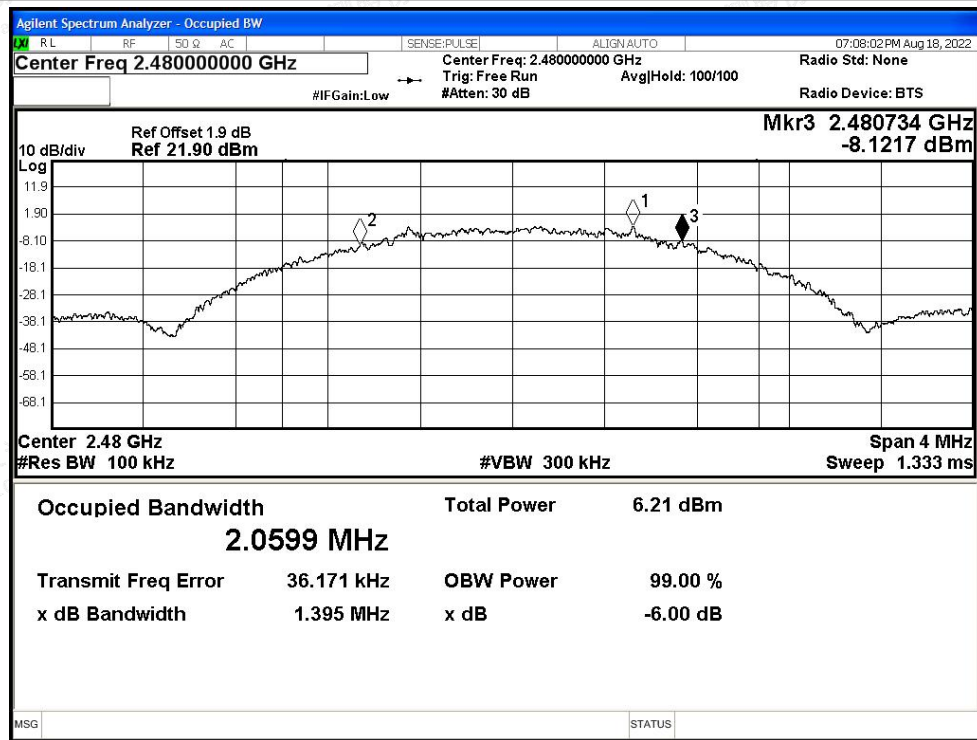
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-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz 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	1.01	0	1.01	30	Pass
NVNT	BLE 1M	2440	Ant1	0.52	0	0.52	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.38	0	-0.38	30	Pass
NVNT	BLE 2M	2402	Ant1	0.97	0	0.97	30	Pass
NVNT	BLE 2M	2440	Ant1	0.5	0	0.5	30	Pass
NVNT	BLE 2M	2480	Ant1	-0.42	0	-0.42	30	Pass



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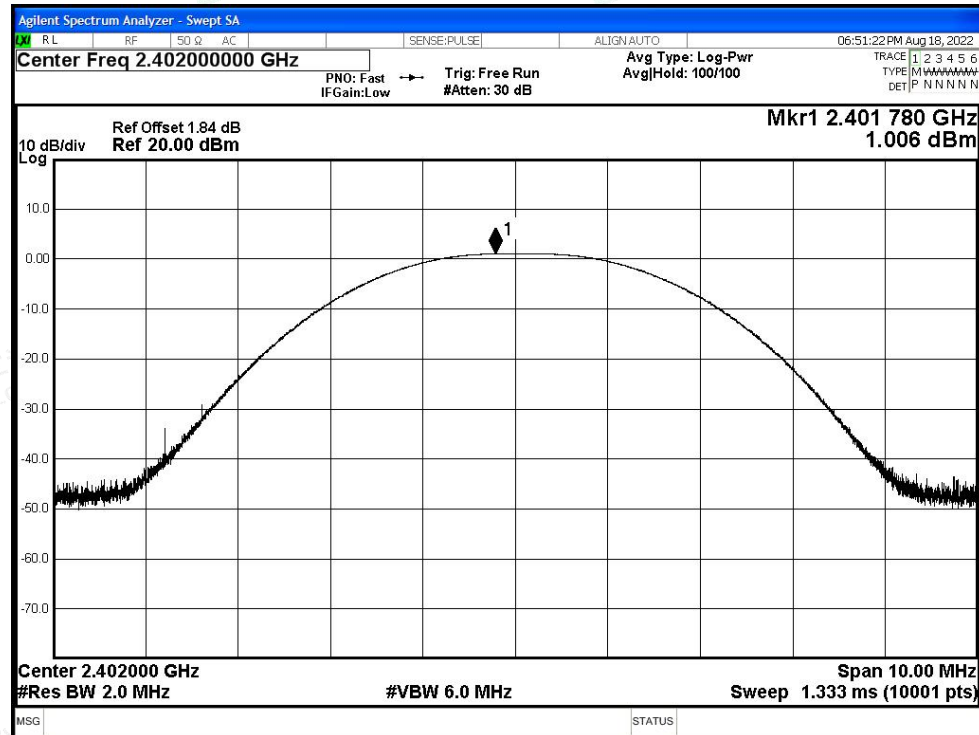
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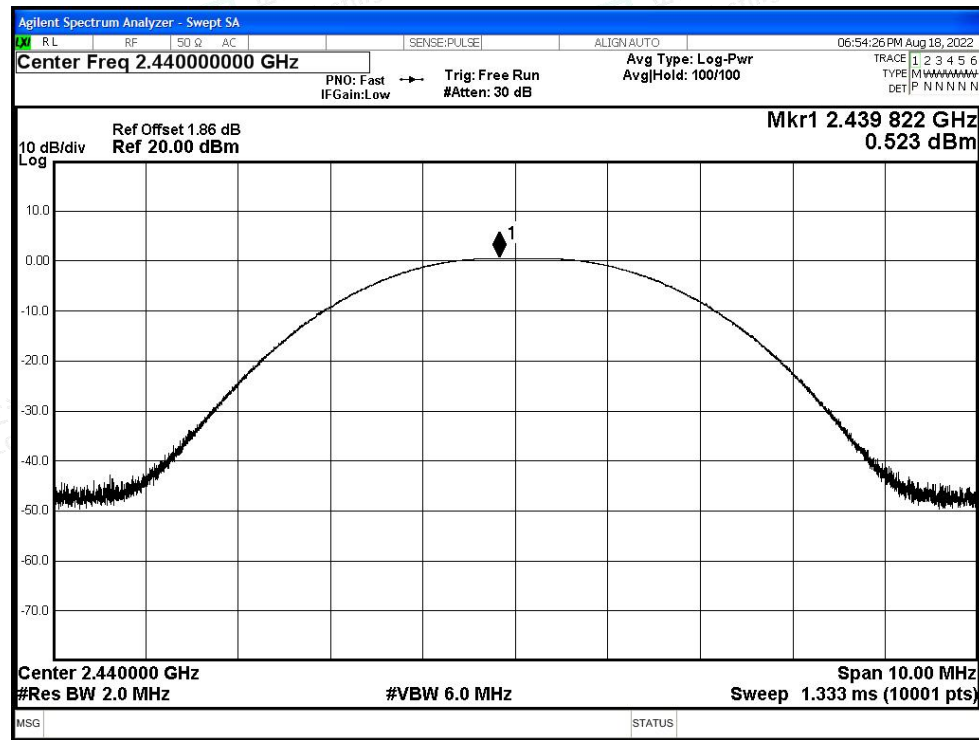


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1

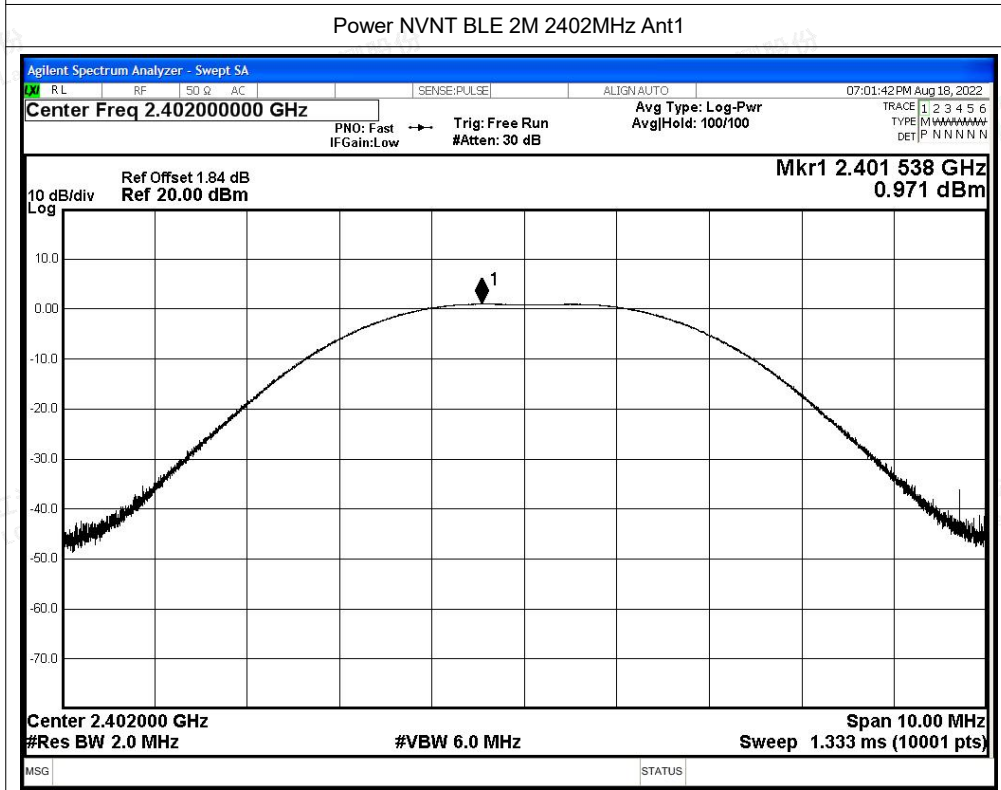
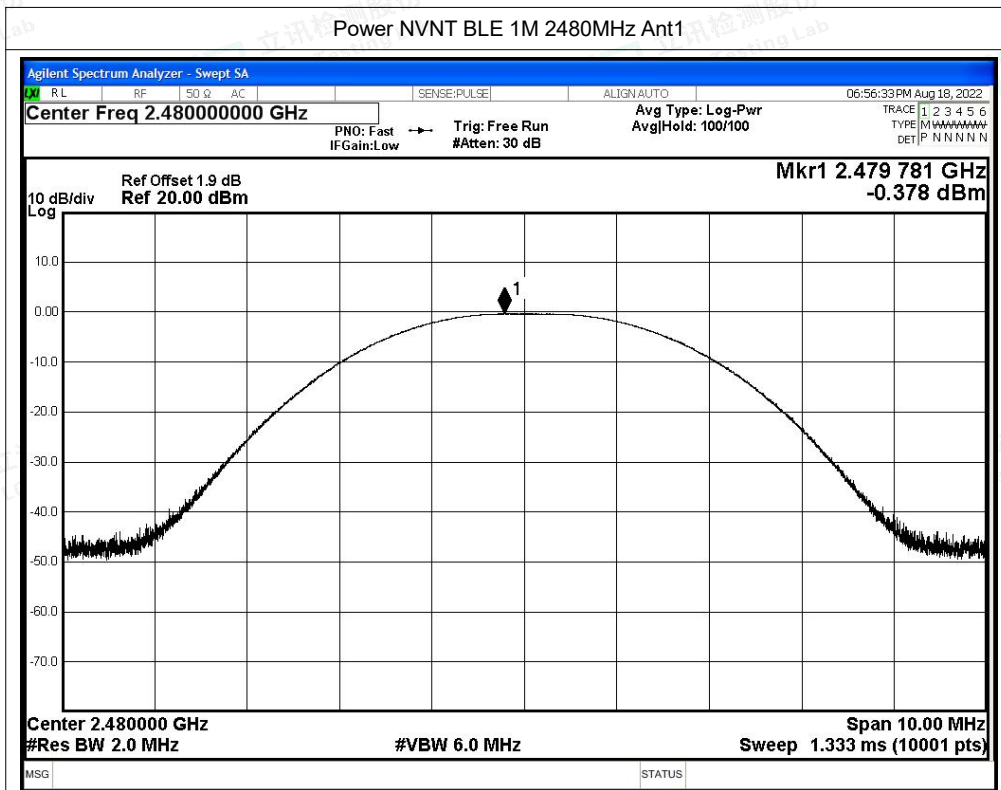


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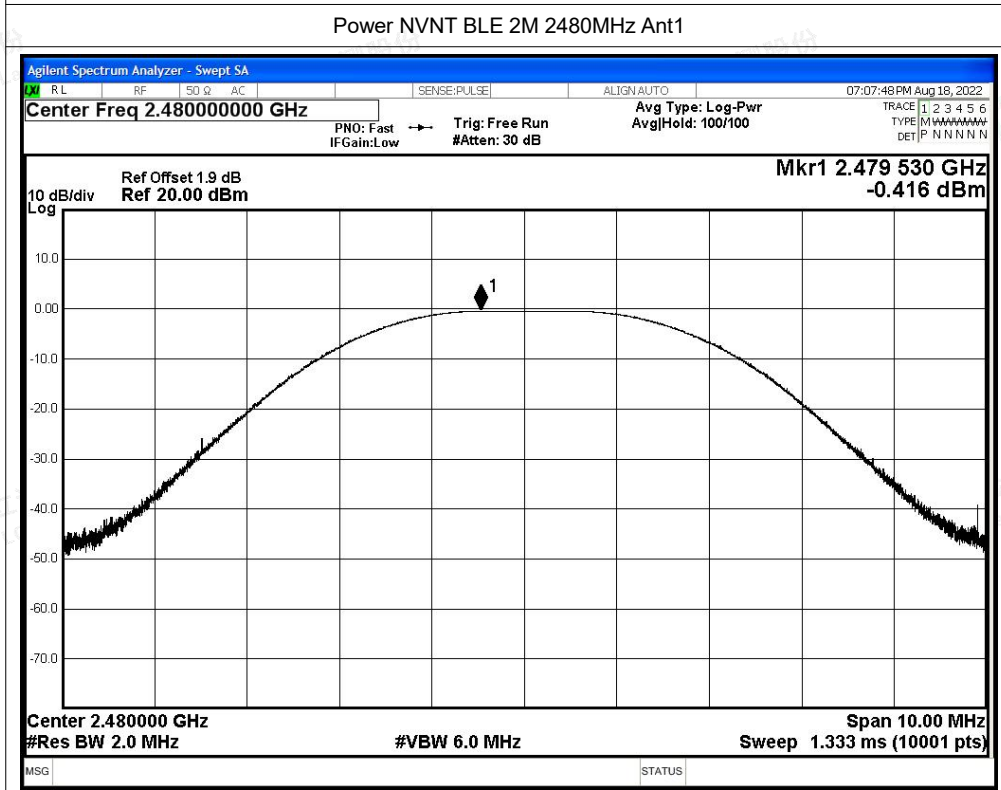
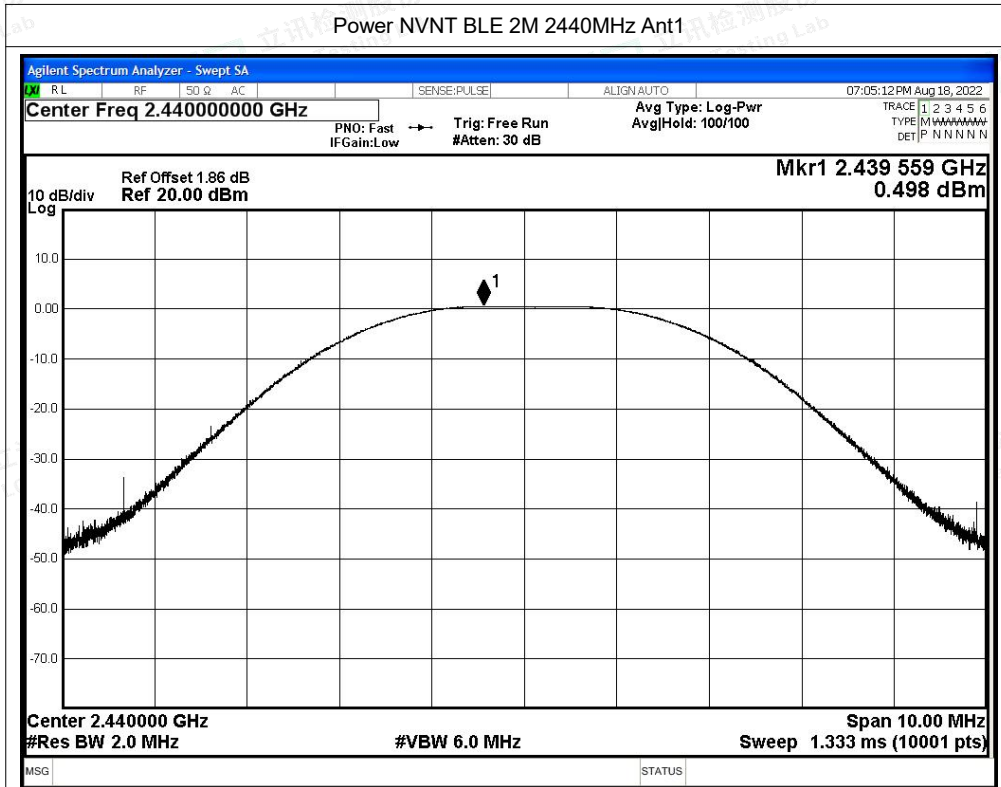


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A.3 Maximum Power Spectral Density Level

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	-12.78	0	-12.78	8	Pass
NVNT	BLE 1M	2440	Ant1	-12.63	0	-12.63	8	Pass
NVNT	BLE 1M	2480	Ant1	-12.8	0	-12.8	8	Pass
NVNT	BLE 2M	2402	Ant1	-15.04	0	-15.04	8	Pass
NVNT	BLE 2M	2440	Ant1	-16.59	0	-16.59	8	Pass
NVNT	BLE 2M	2480	Ant1	-15.98	0	-15.98	8	Pass



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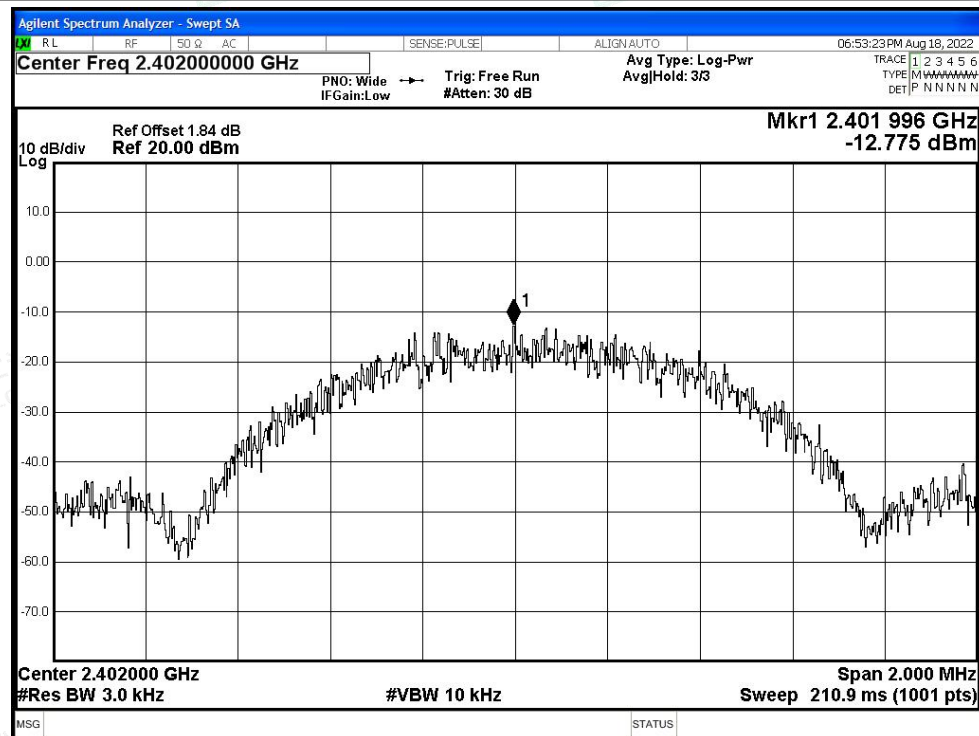
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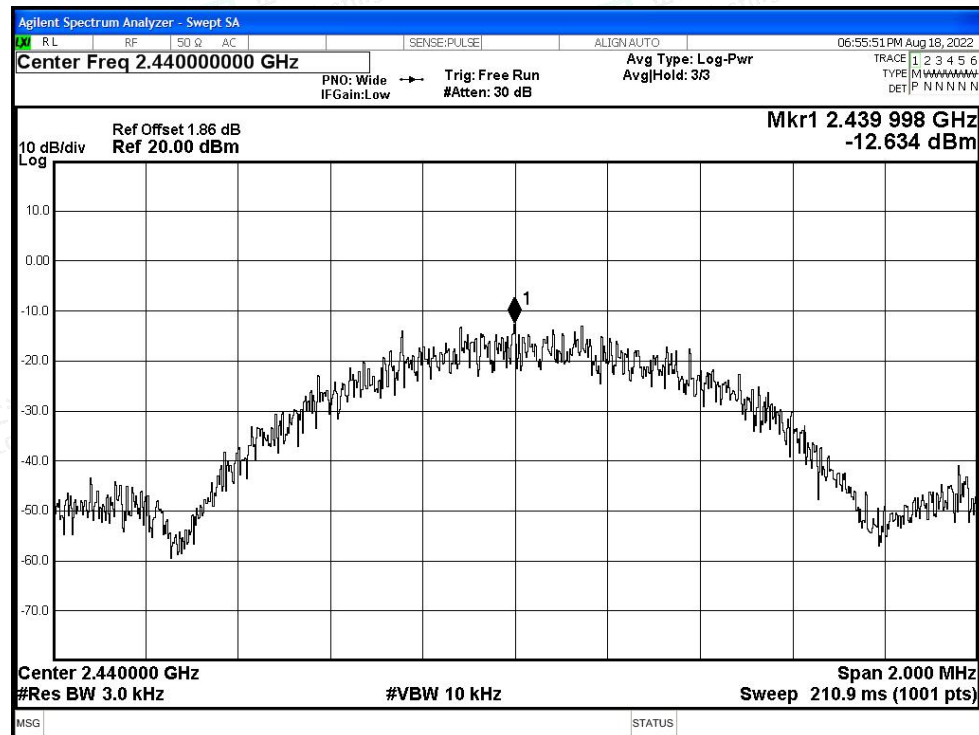


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1



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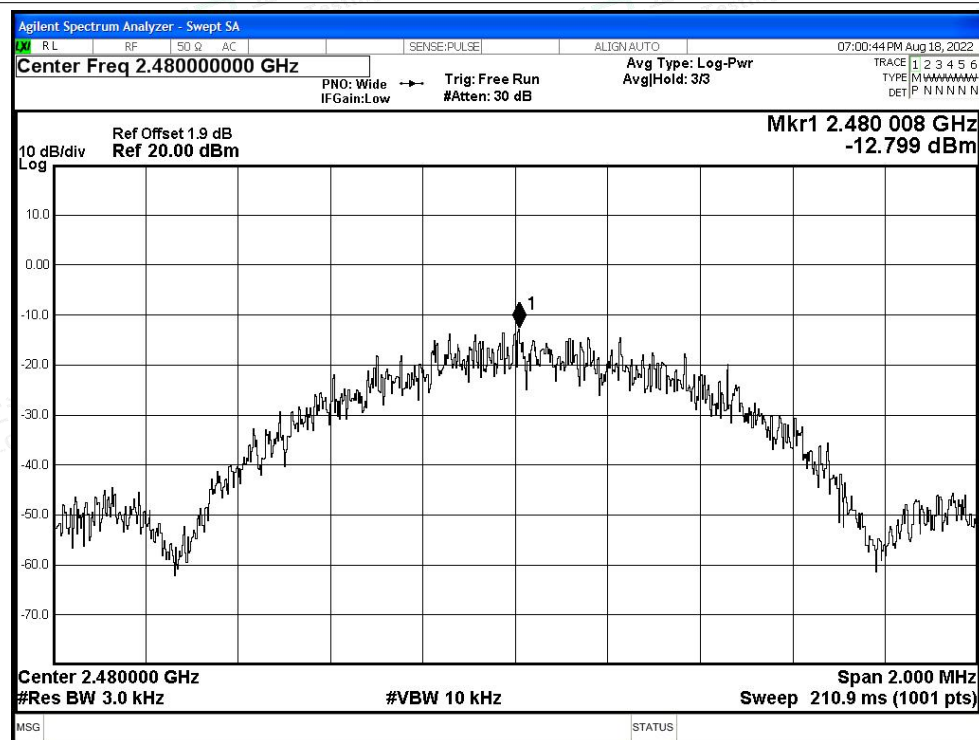
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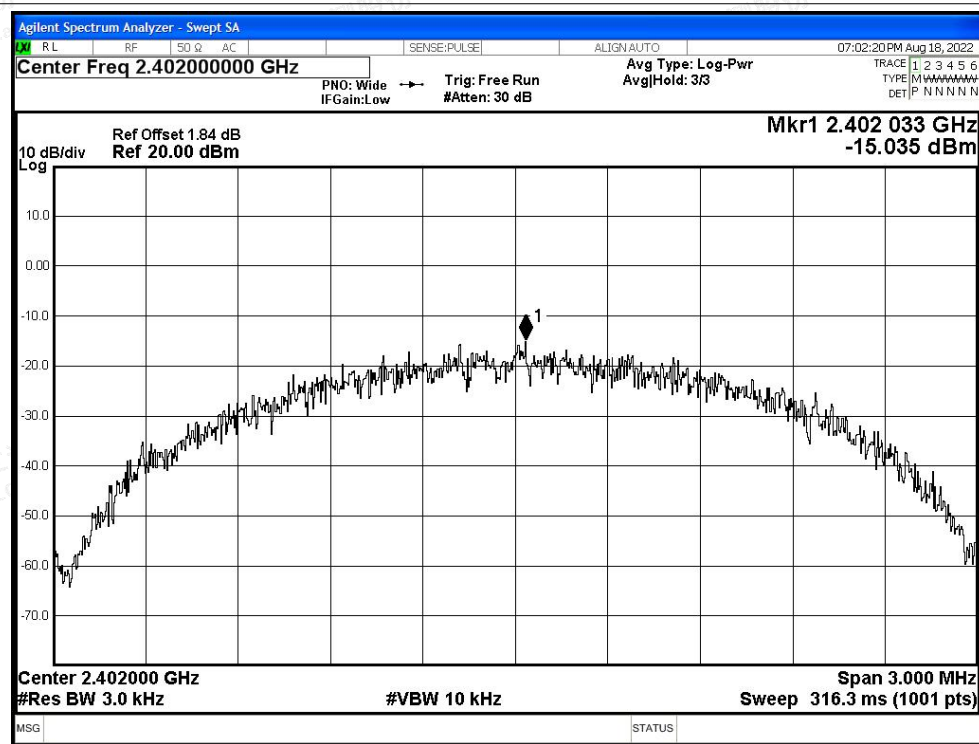
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PSD NVNT BLE 1M 2480MHz Ant1



PSD NVNT BLE 2M 2402MHz Ant1



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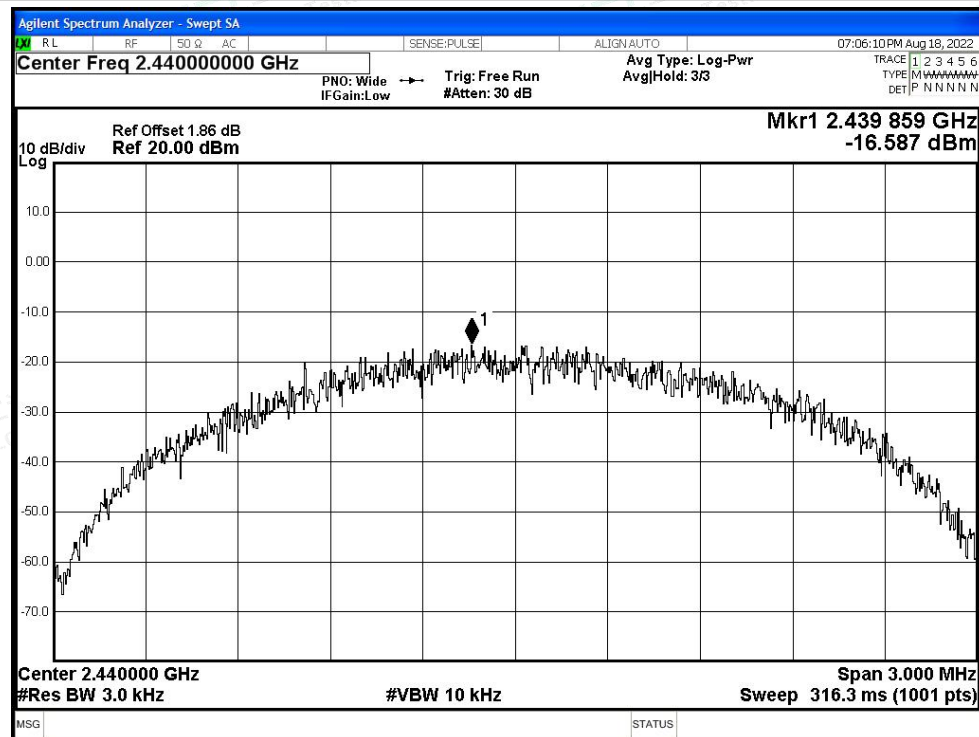
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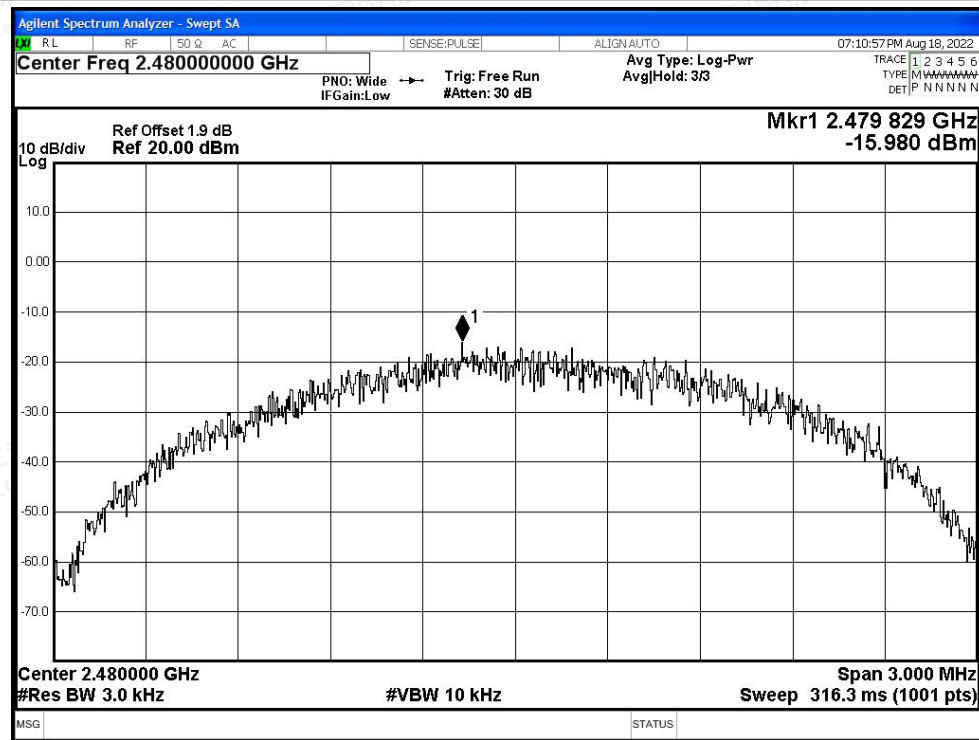
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PSD NVNT BLE 2M 2440MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1



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A.4 Band Edge

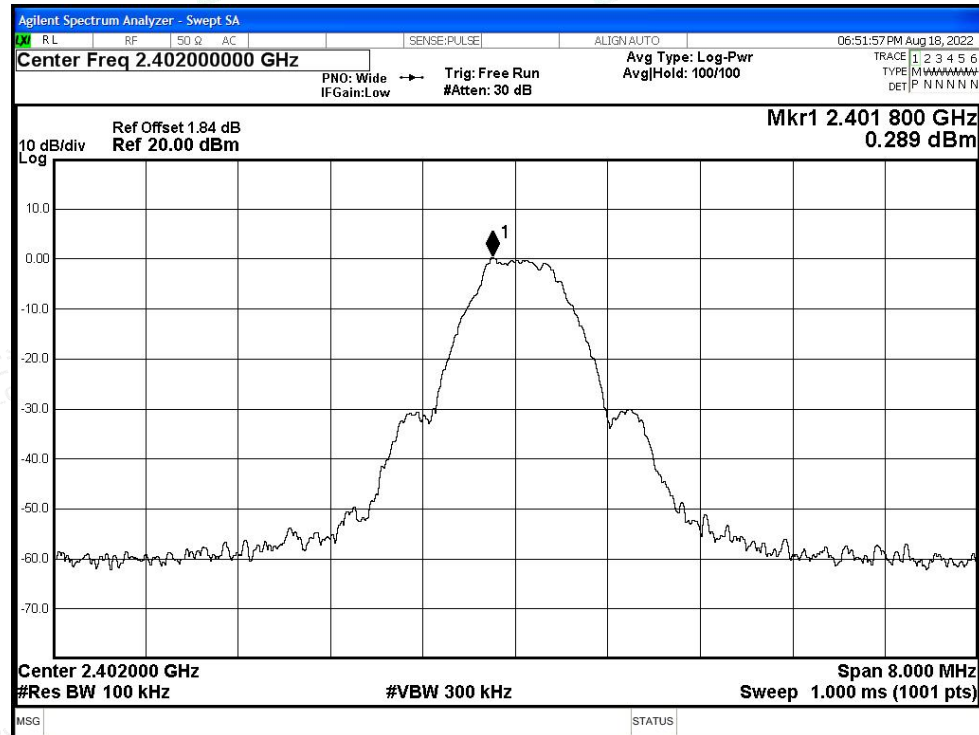
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-50.2	-20	Pass
NVNT	BLE 1M	2480	Ant1	-48.78	-20	Pass
NVNT	BLE 2M	2402	Ant1	-32.62	-20	Pass
NVNT	BLE 2M	2480	Ant1	-47.24	-20	Pass



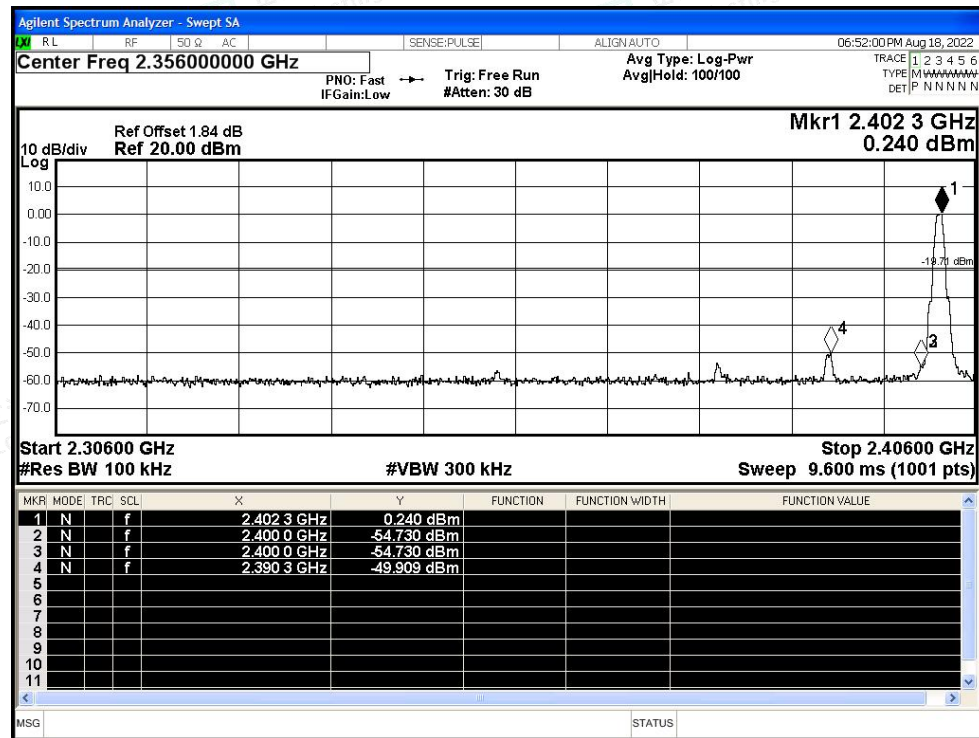


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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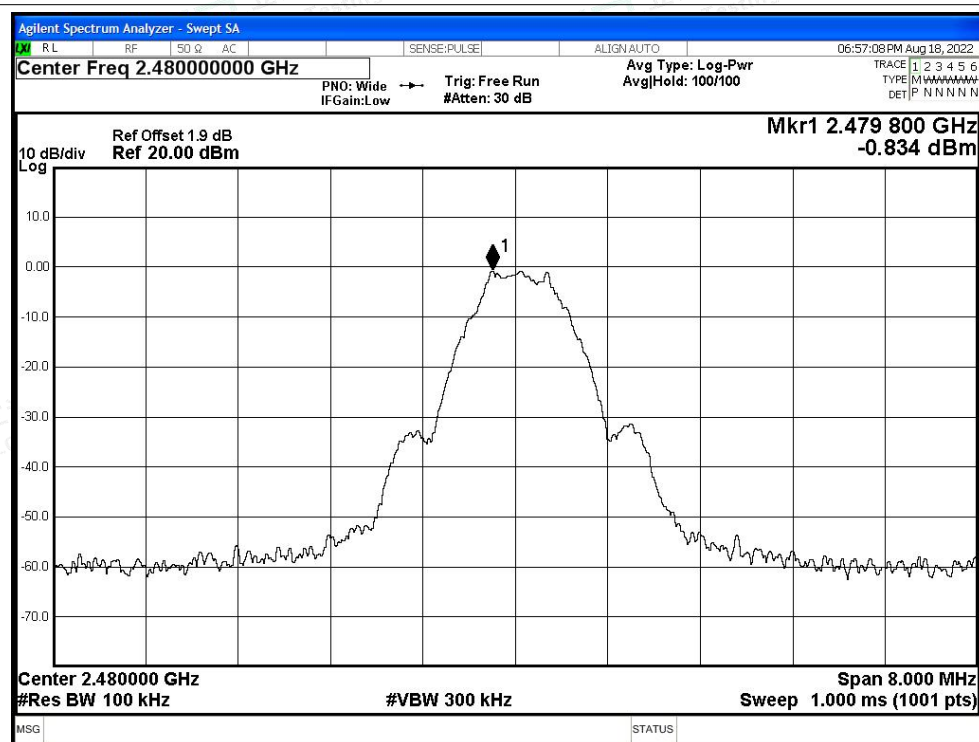
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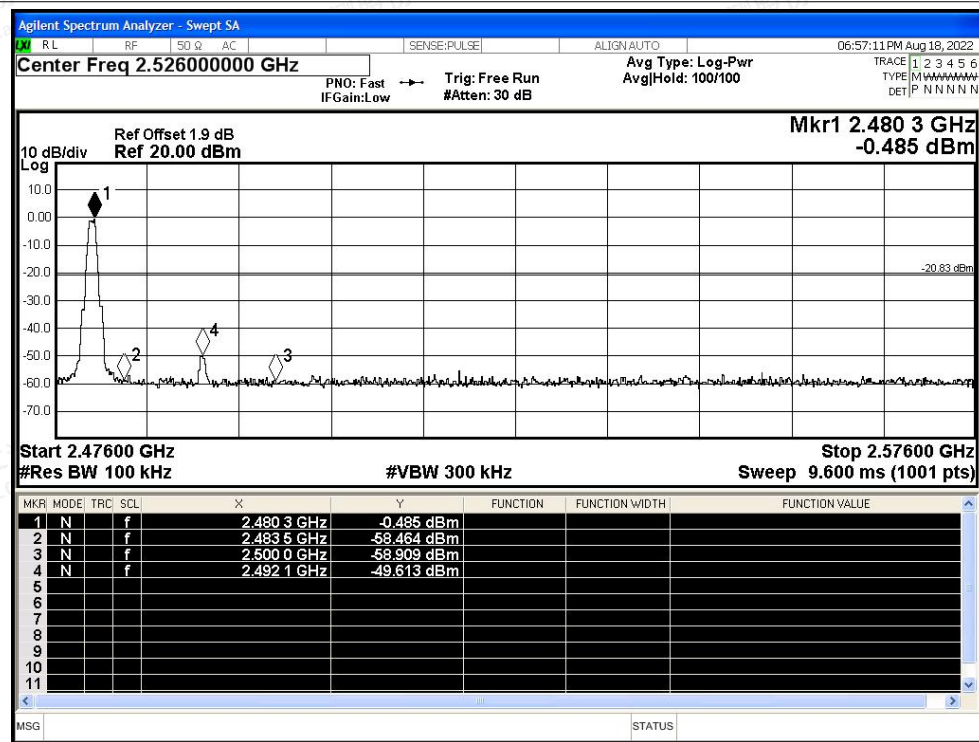
Scan code to check authenticity



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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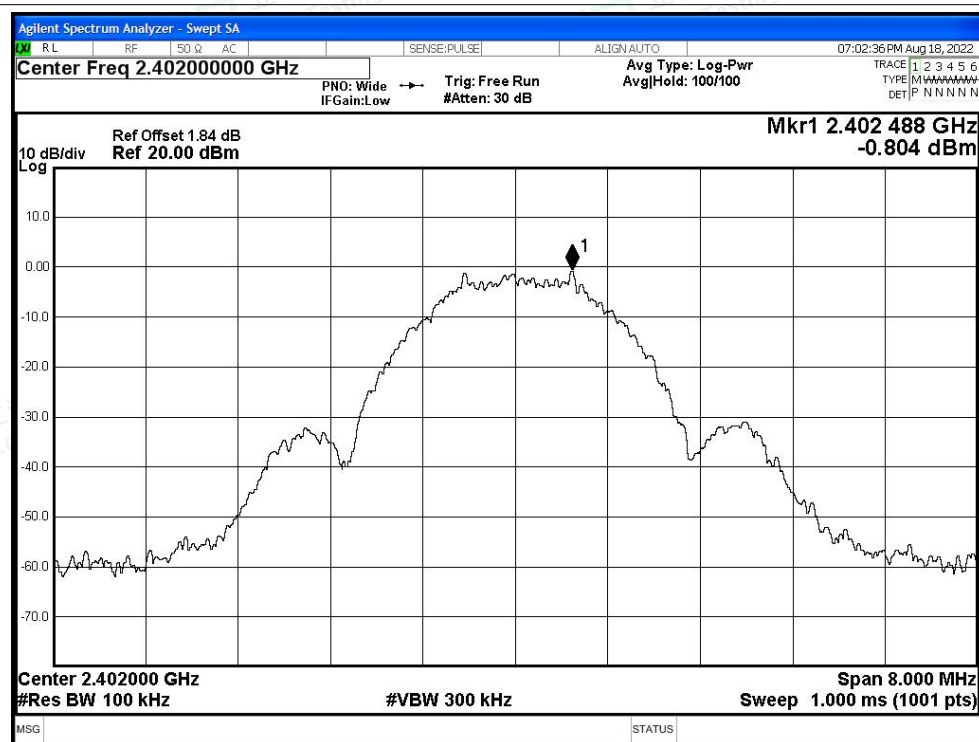
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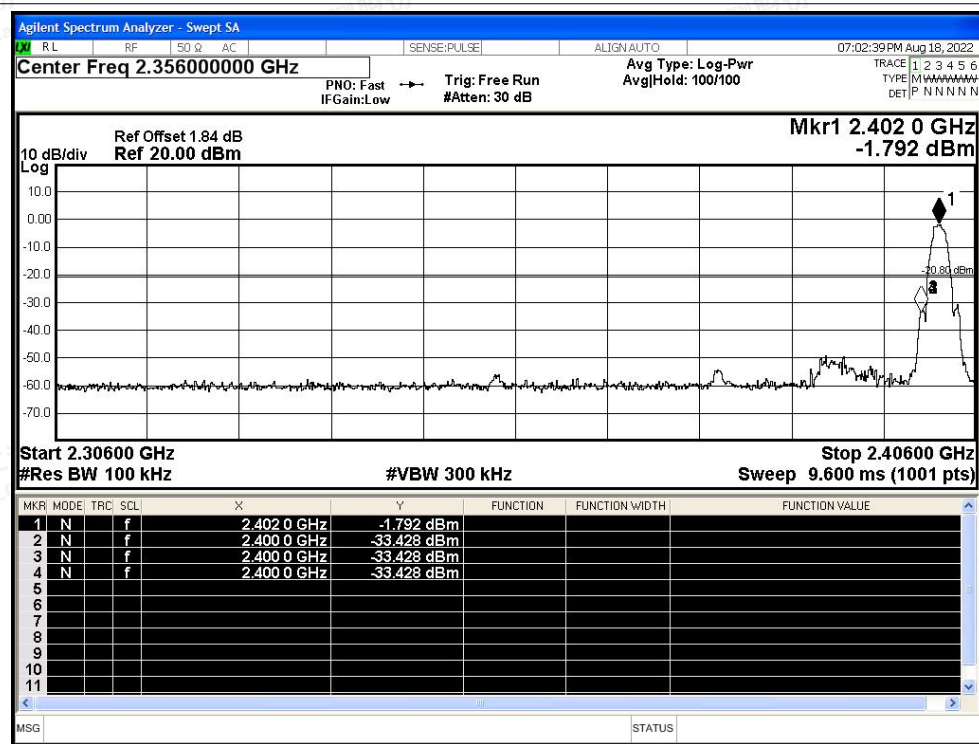
Scan code to check authenticity



Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



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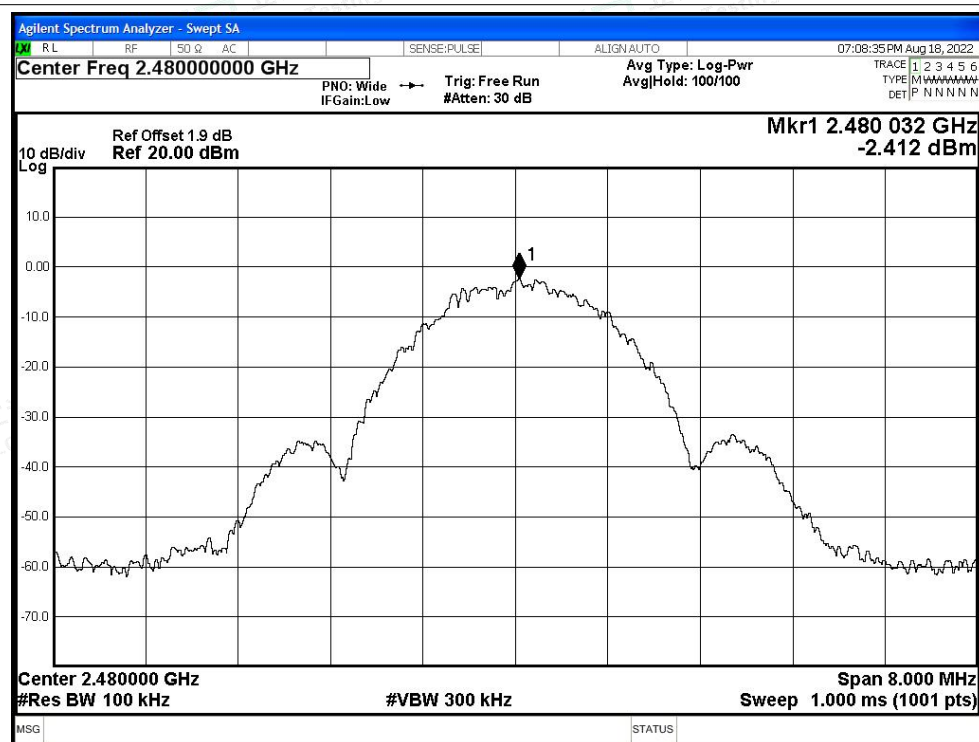
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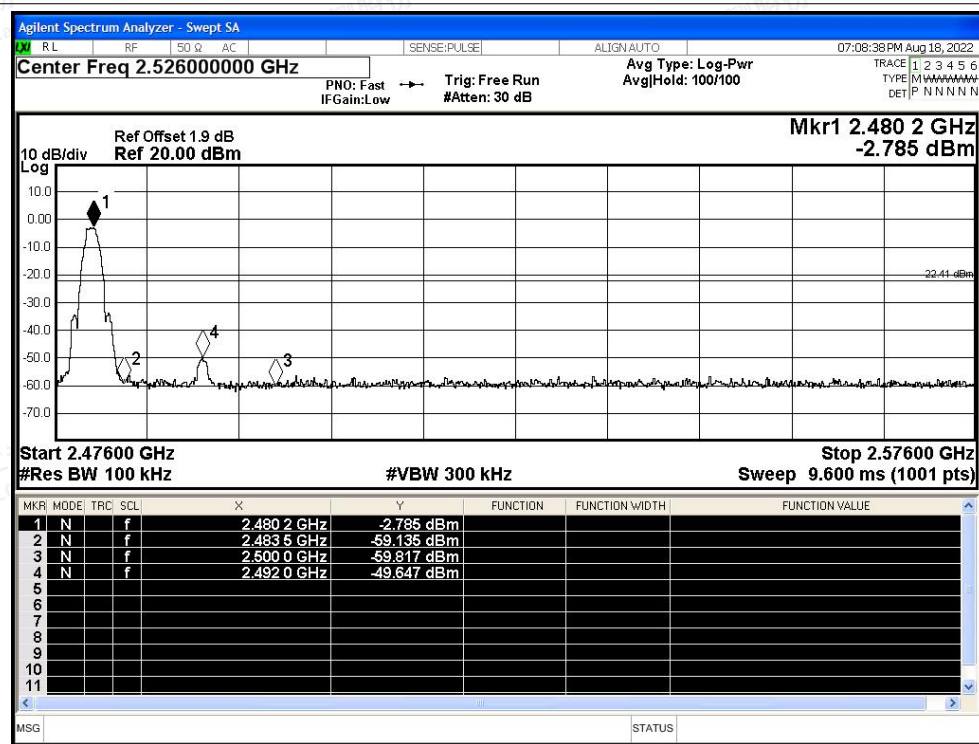
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Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz 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	-55.29	-20	Pass
NVNT	BLE 1M	2440	Ant1	-43.3	-20	Pass
NVNT	BLE 1M	2480	Ant1	-44.16	-20	Pass
NVNT	BLE 2M	2402	Ant1	-53.14	-20	Pass
NVNT	BLE 2M	2440	Ant1	-54.67	-20	Pass
NVNT	BLE 2M	2480	Ant1	-54.22	-20	Pass



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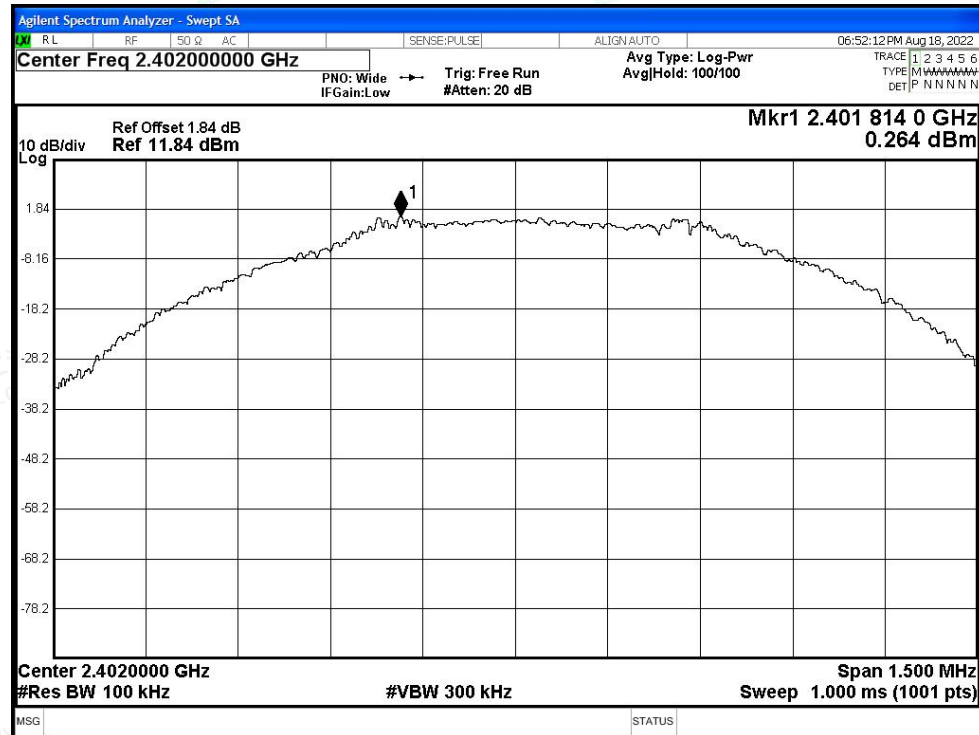
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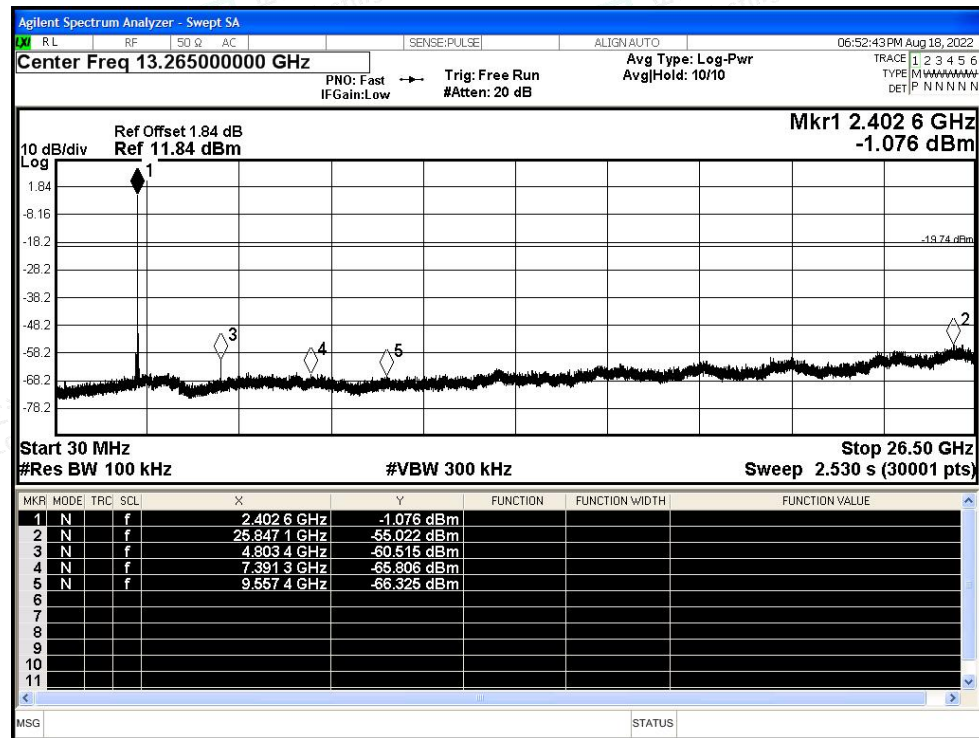


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



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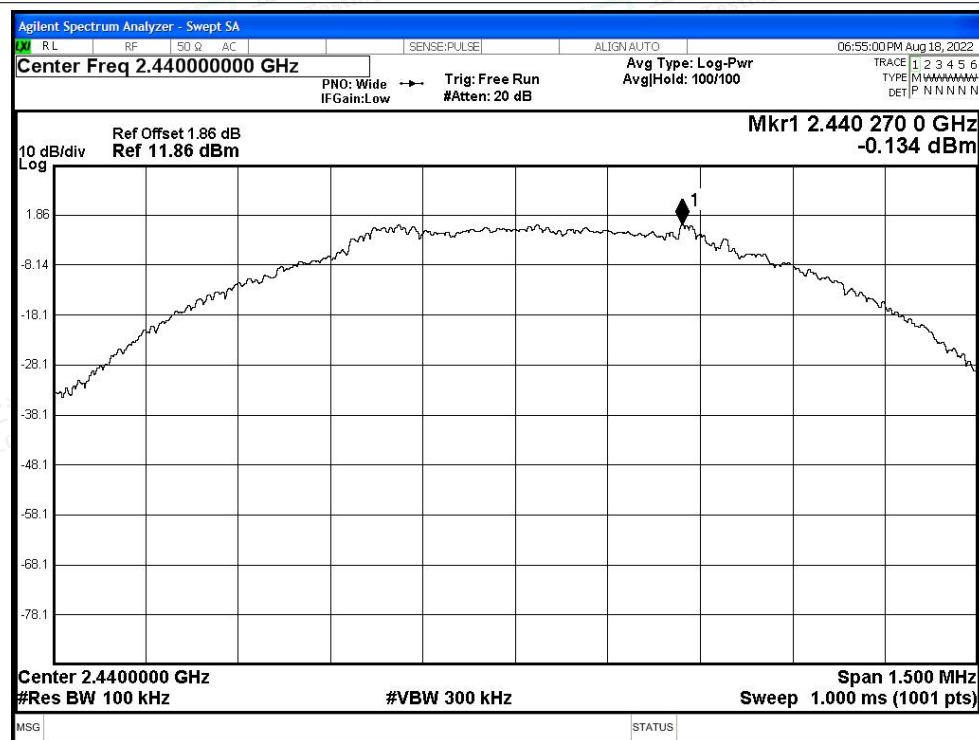
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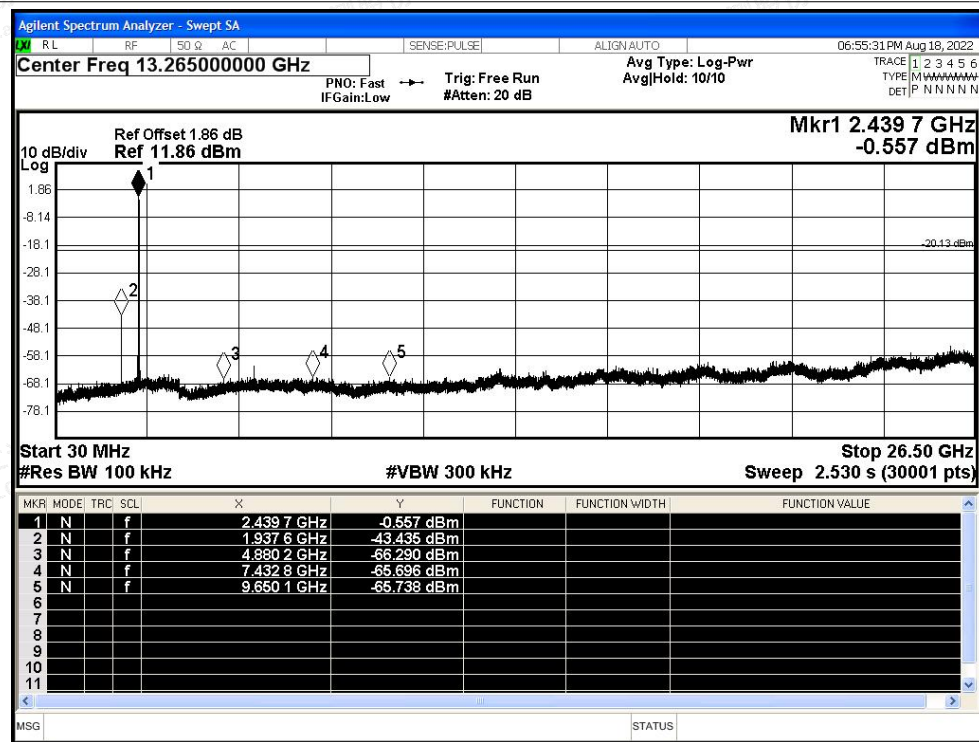
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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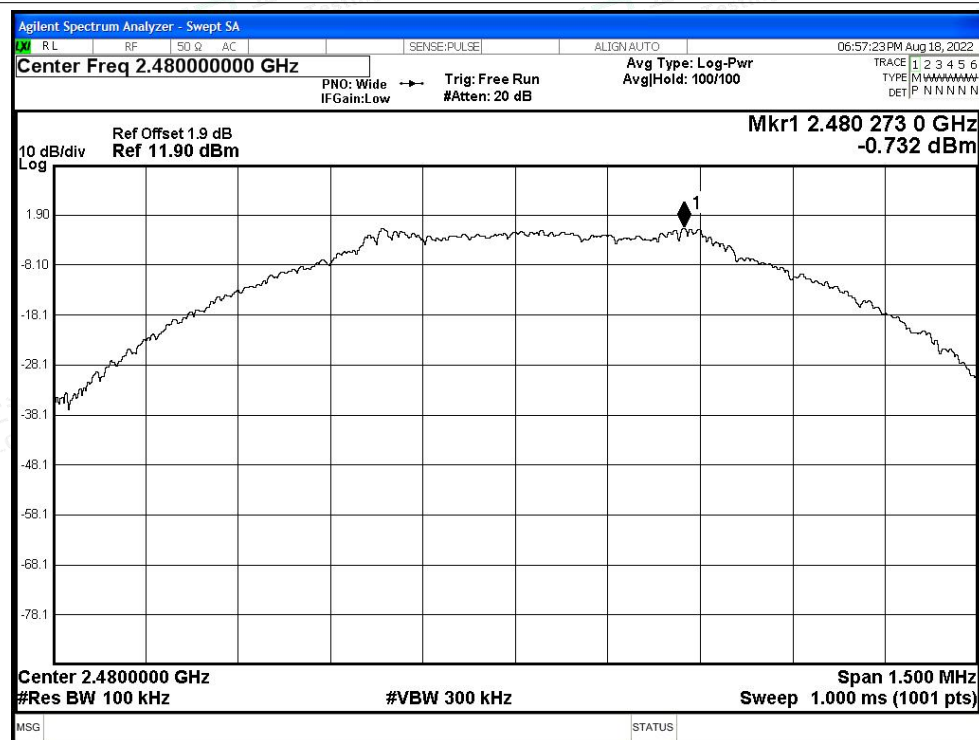
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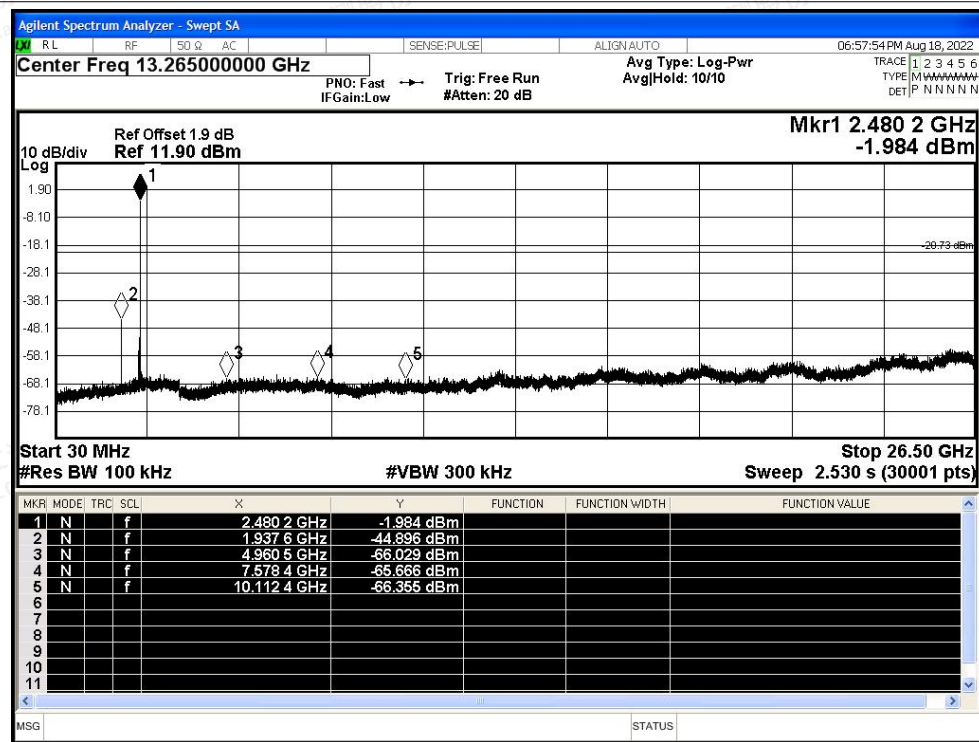
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Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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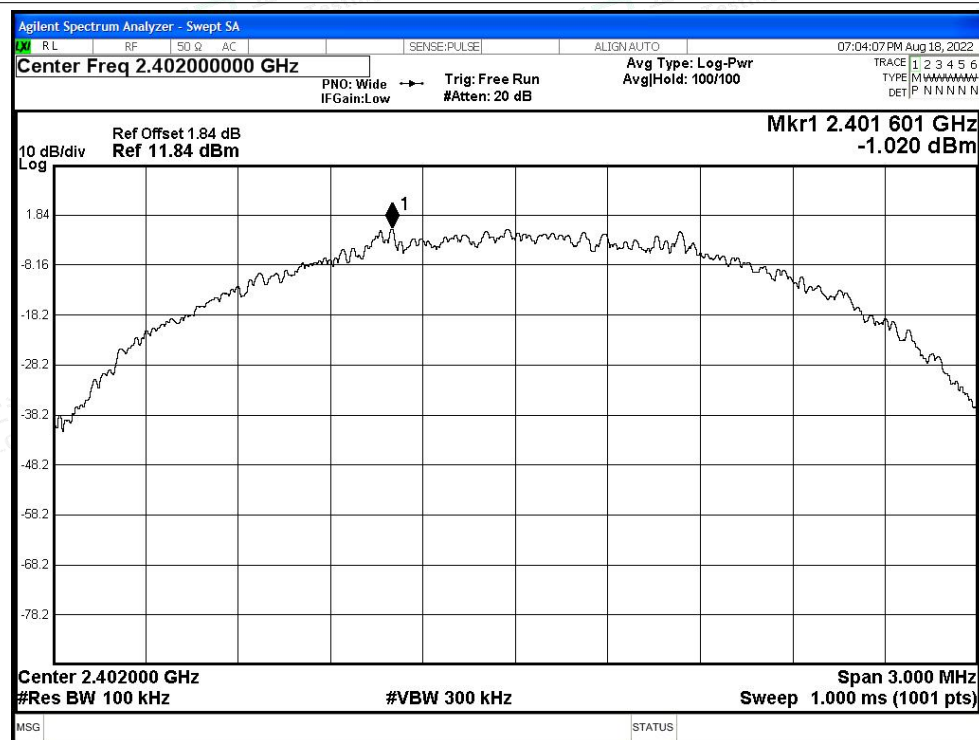
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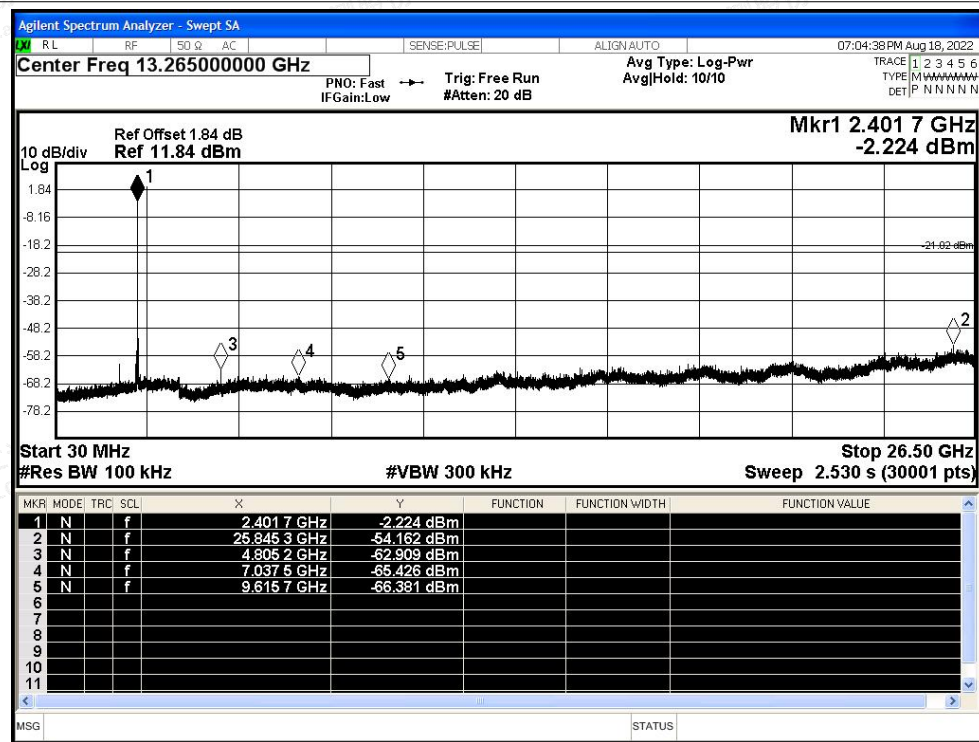
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Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



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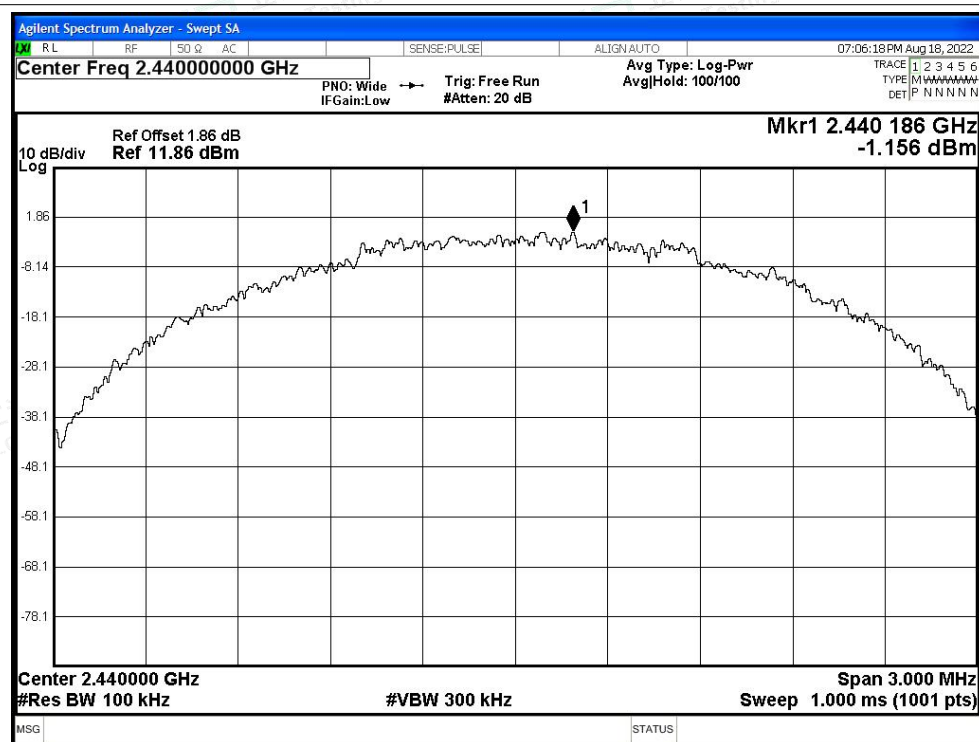
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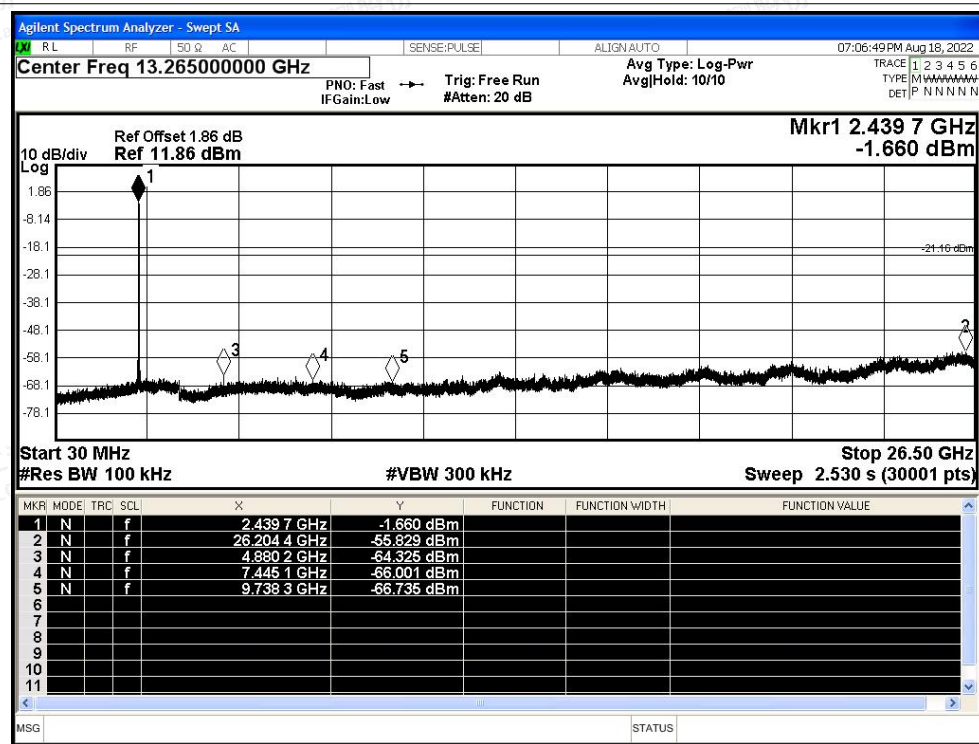
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