



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: BDE Multi-Band & Multi-Protocol Wireless Module

Test Model: BDE-MB1354R10UA32

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jose Zhu
Supervised by:	Nick Peng



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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	0.706	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.72	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.669	≥ 0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.423	≥ 0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.373	≥ 0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.264	≥ 0.5	Pass
NVNT	BLE 125Kbps	2402	Ant1	0.681	≥ 0.5	Pass
NVNT	BLE 125Kbps	2440	Ant1	0.709	≥ 0.5	Pass
NVNT	BLE 125Kbps	2480	Ant1	0.711	≥ 0.5	Pass
NVNT	BLE 500Kbps	2402	Ant1	0.67	≥ 0.5	Pass
NVNT	BLE 500Kbps	2440	Ant1	0.689	≥ 0.5	Pass
NVNT	BLE 500Kbps	2480	Ant1	0.714	≥ 0.5	Pass

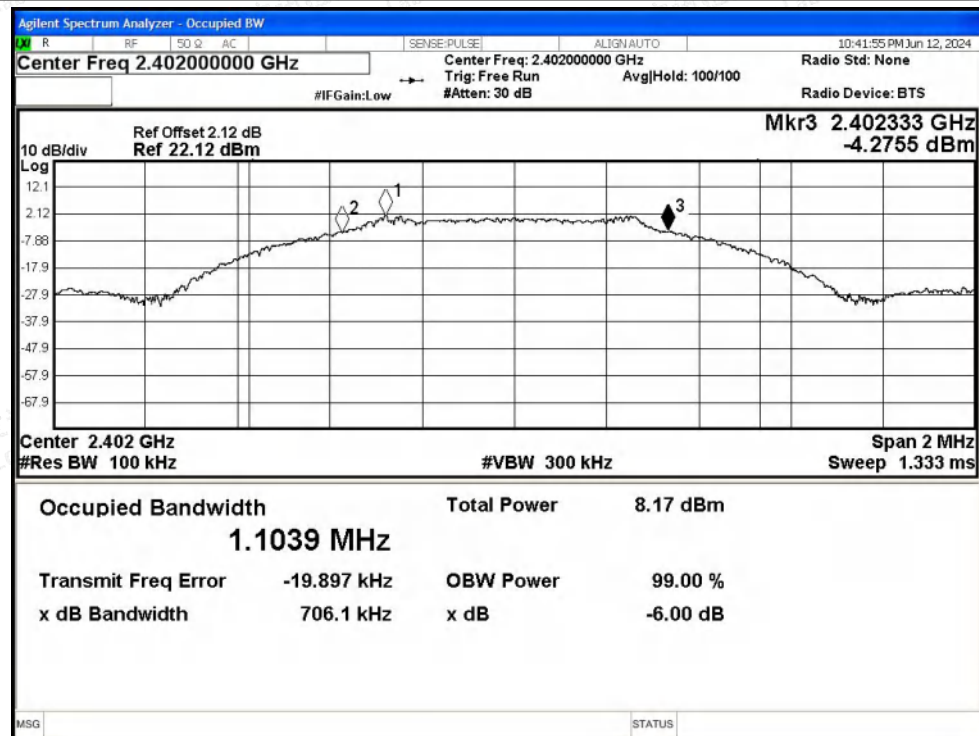


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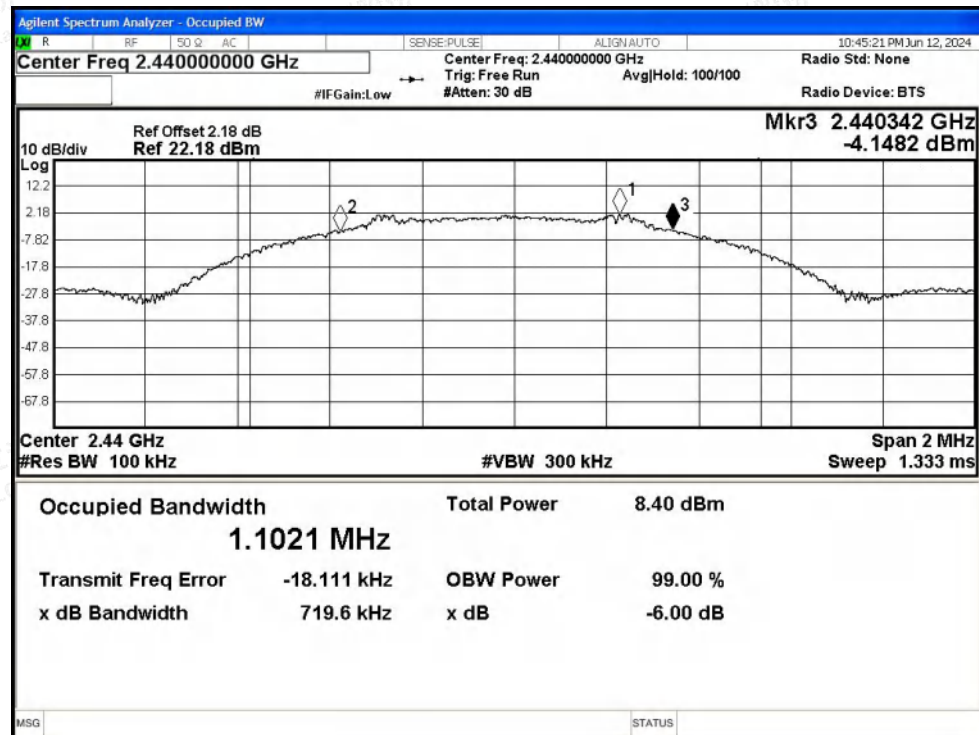


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



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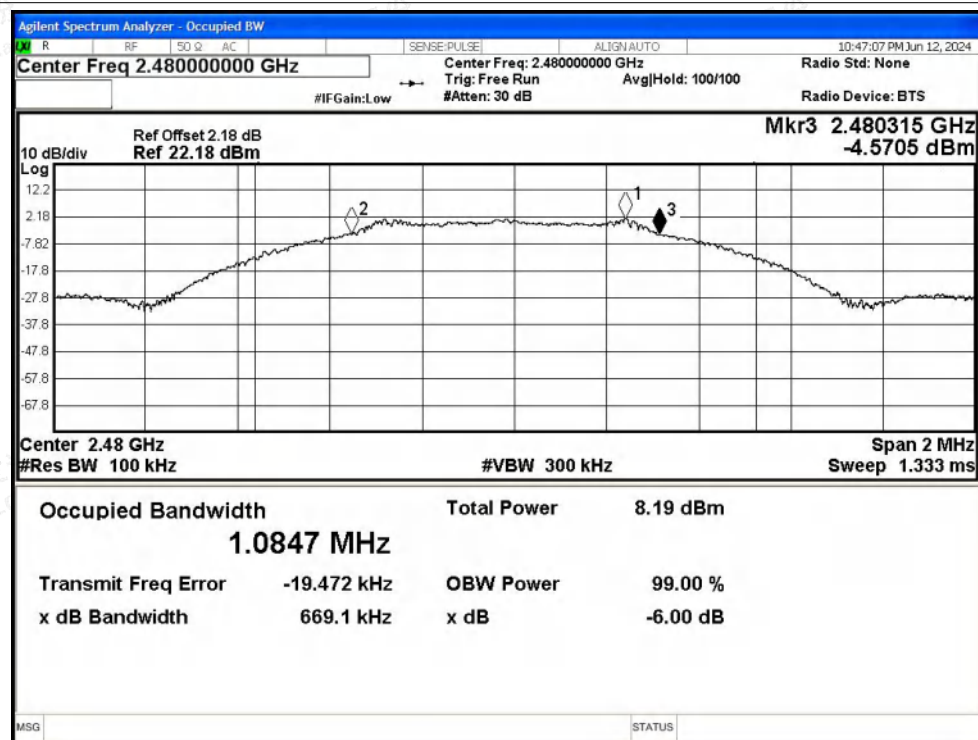
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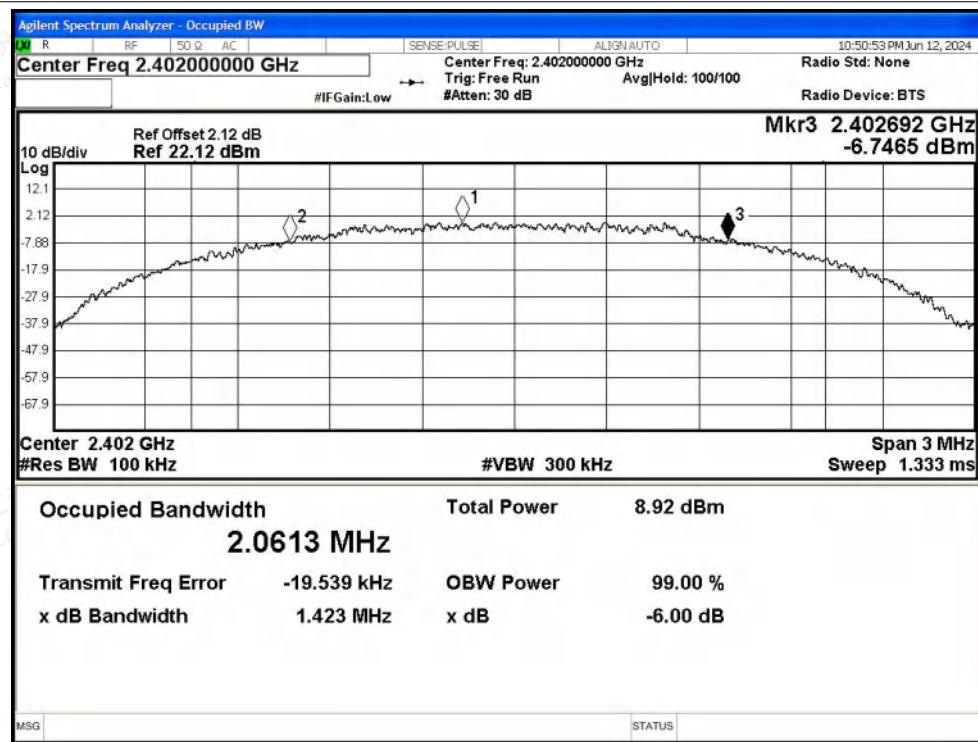
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-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



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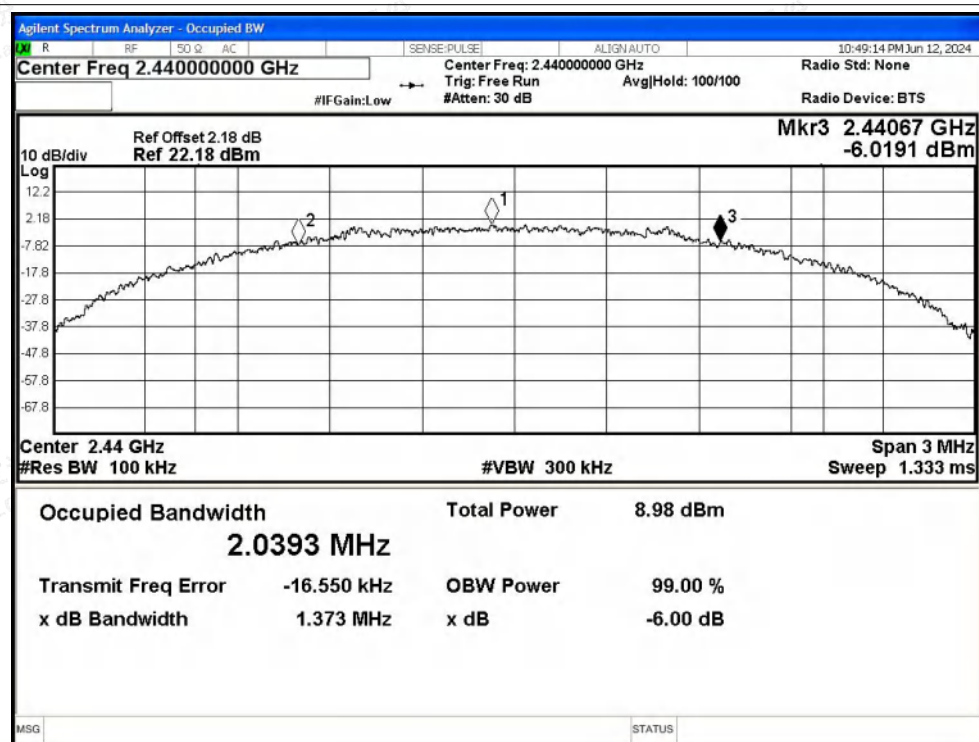
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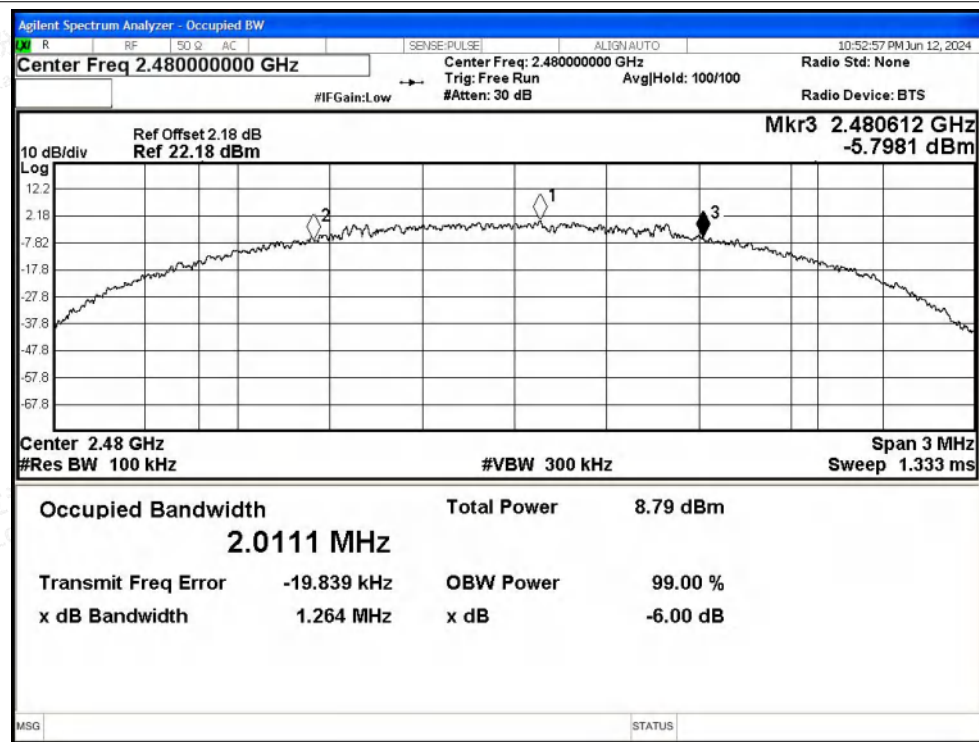
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-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1



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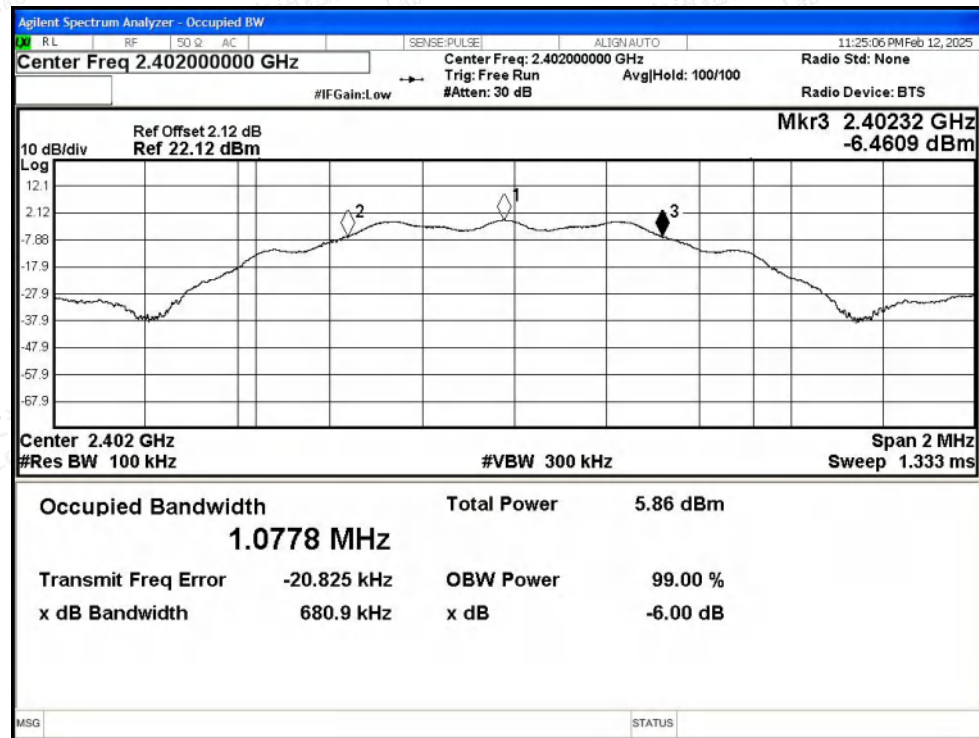
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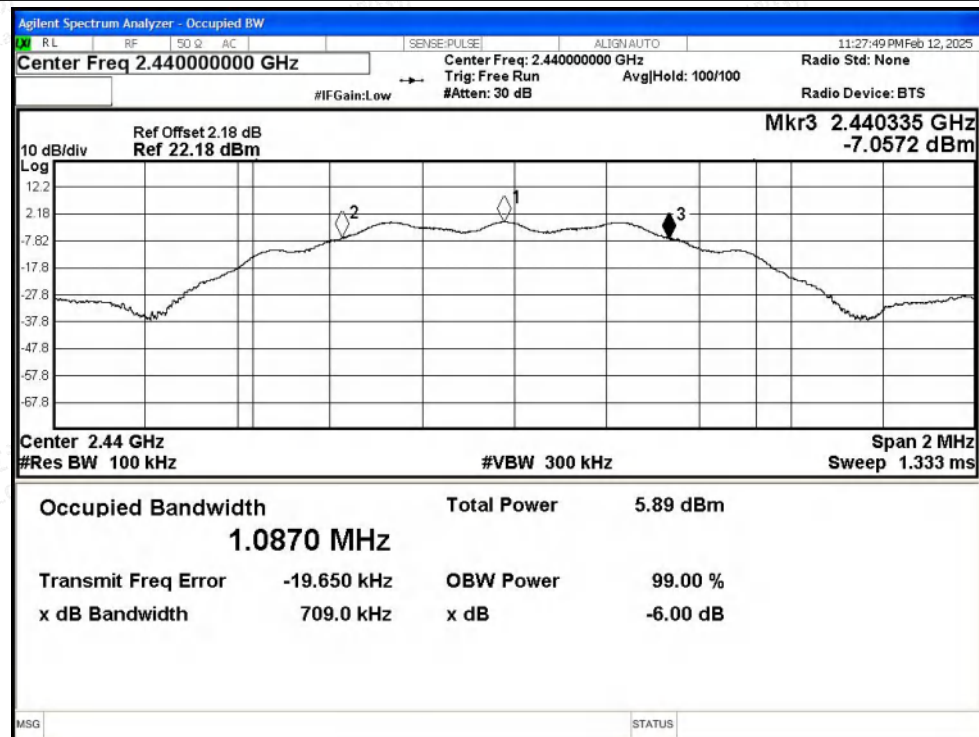
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-6dB Bandwidth NVNT BLE 125Kbps 2402MHz Ant1



-6dB Bandwidth NVNT BLE 125Kbps 2440MHz Ant1



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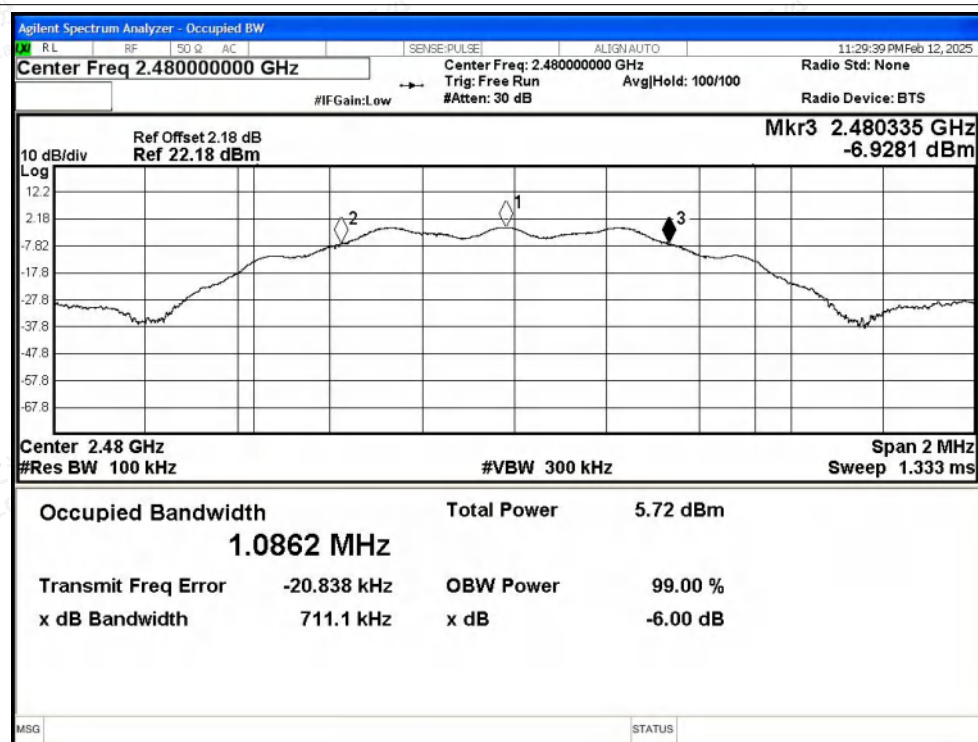
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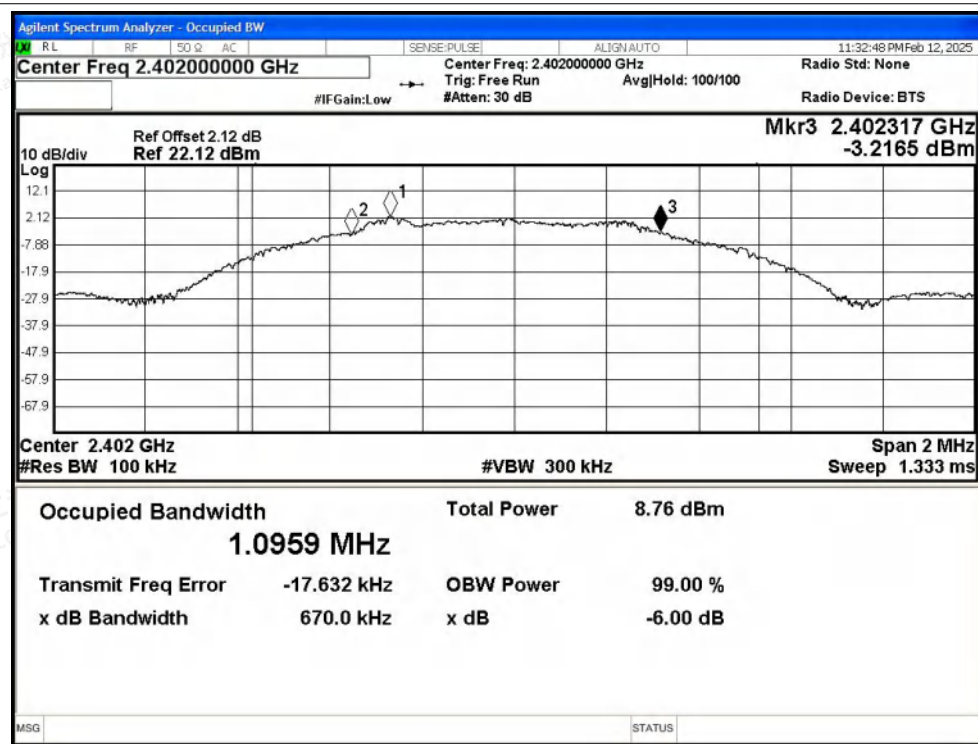
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-6dB Bandwidth NVNT BLE 125Kbps 2480MHz Ant1



-6dB Bandwidth NVNT BLE 500Kbps 2402MHz Ant1



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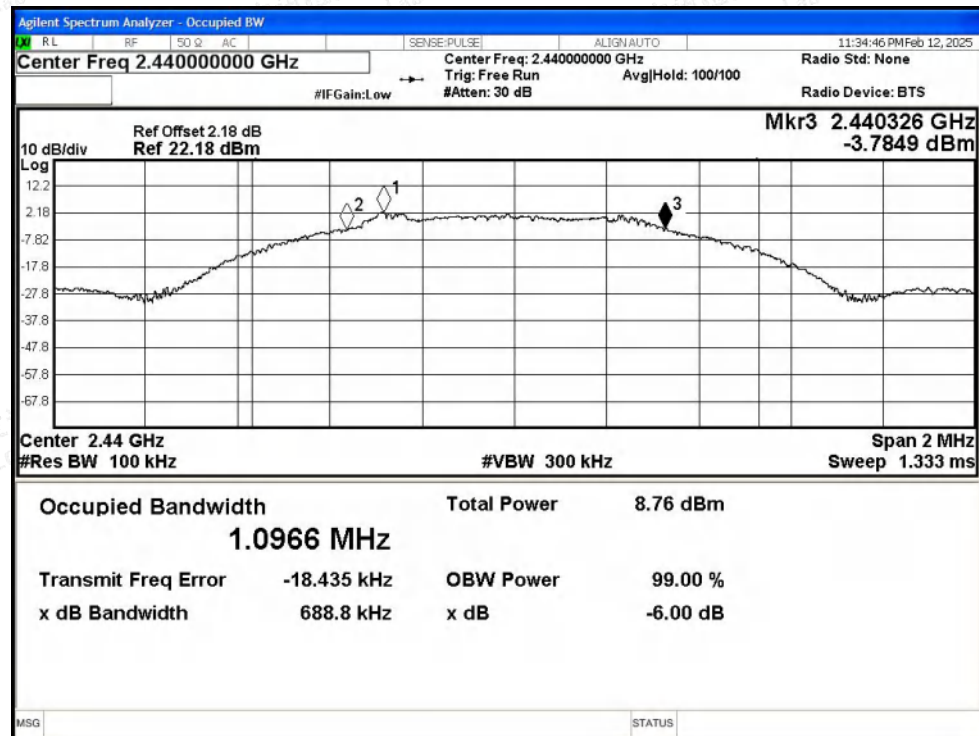
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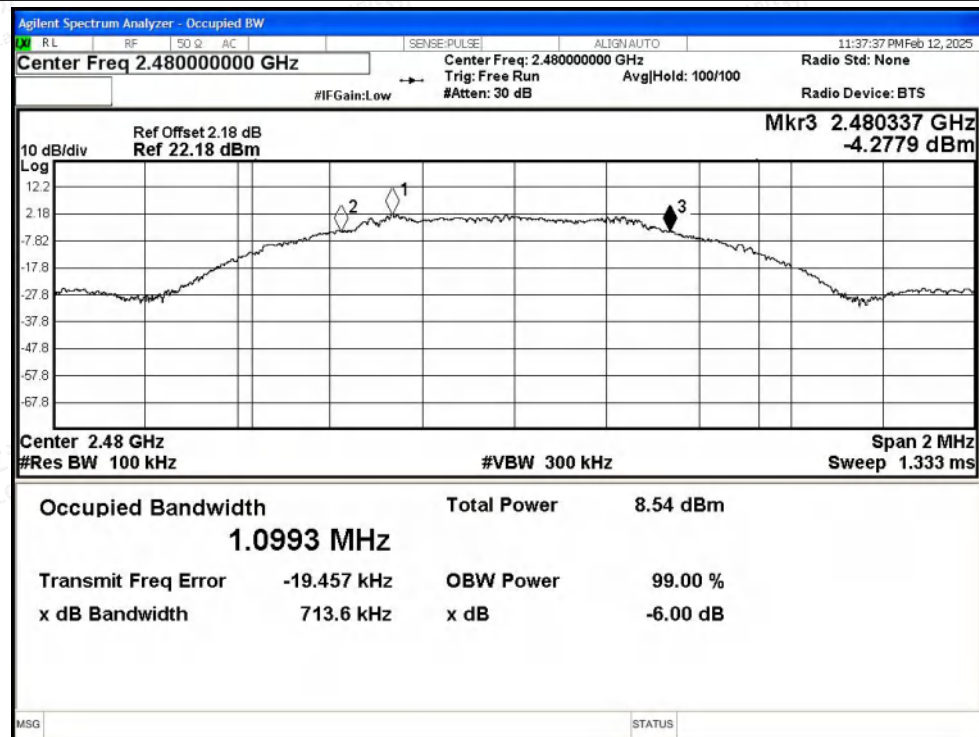
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-6dB Bandwidth NVNT BLE 500Kbps 2440MHz Ant1



-6dB Bandwidth NVNT BLE 500Kbps 2480MHz Ant1



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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	2.20	30	Pass
NVNT	BLE 1M	2440	Ant1	2.31	30	Pass
NVNT	BLE 1M	2480	Ant1	2.11	30	Pass
NVNT	BLE 2M	2402	Ant1	2.29	30	Pass
NVNT	BLE 2M	2440	Ant1	2.35	30	Pass
NVNT	BLE 2M	2480	Ant1	2.17	30	Pass
NVNT	BLE 125Kbps	2402	Ant1	2.77	30	Pass
NVNT	BLE 125Kbps	2440	Ant1	2.81	30	Pass
NVNT	BLE 125Kbps	2480	Ant1	2.64	30	Pass
NVNT	BLE 500Kbps	2402	Ant1	2.73	30	Pass
NVNT	BLE 500Kbps	2440	Ant1	2.77	30	Pass
NVNT	BLE 500Kbps	2480	Ant1	2.62	30	Pass

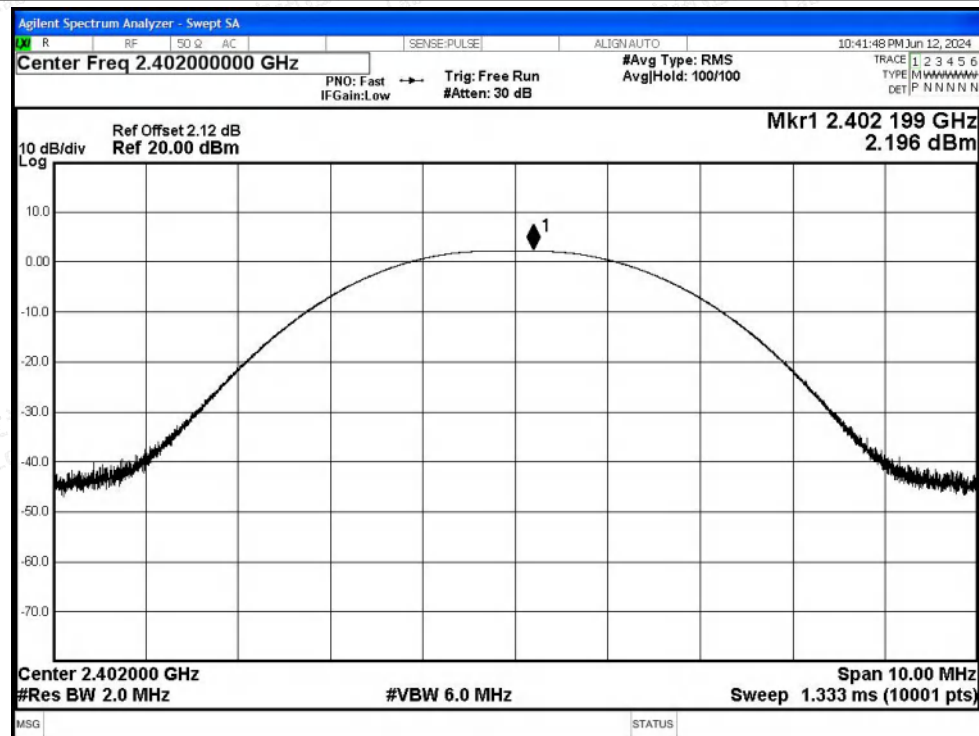


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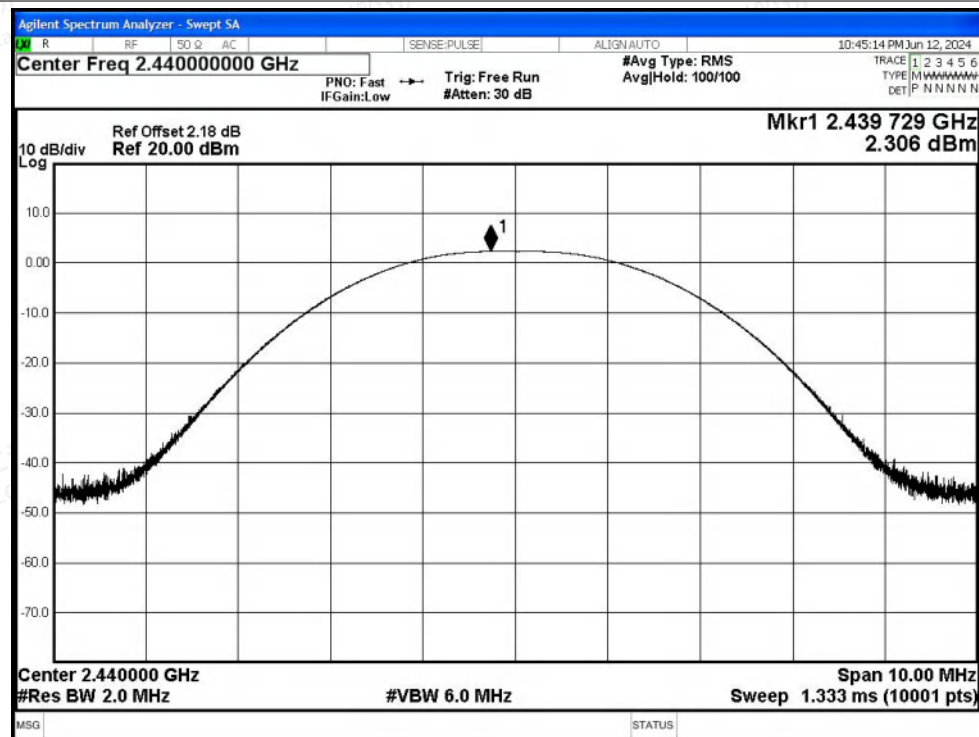


Test Graphs

Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2440MHz Ant1



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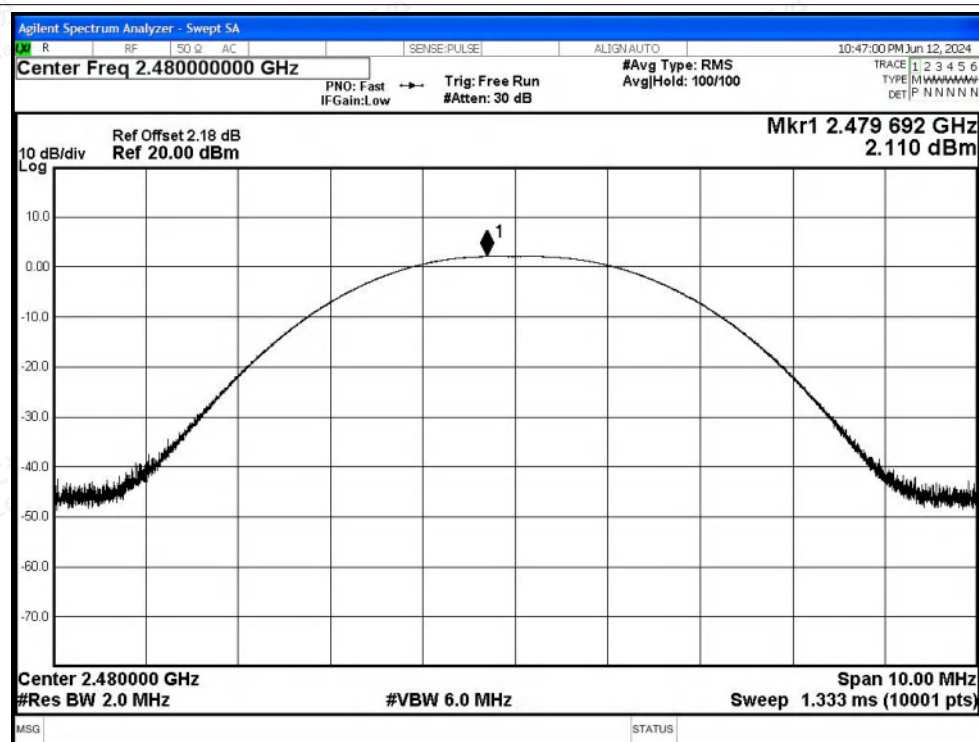
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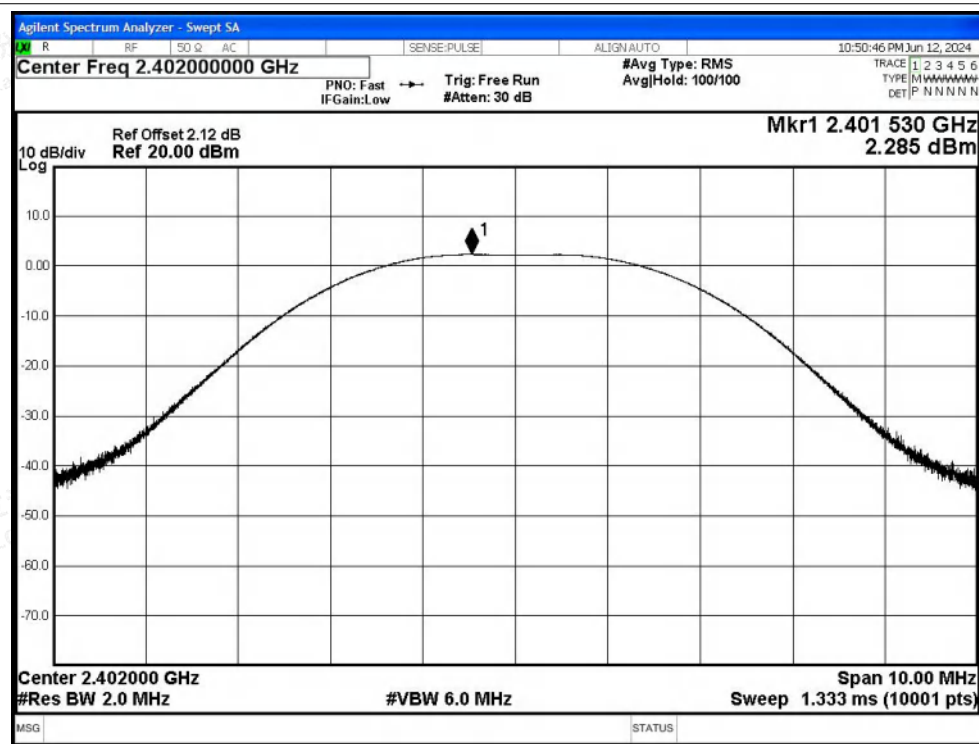
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Power NVNT BLE 1M 2480MHz Ant1



Power NVNT BLE 2M 2402MHz Ant1



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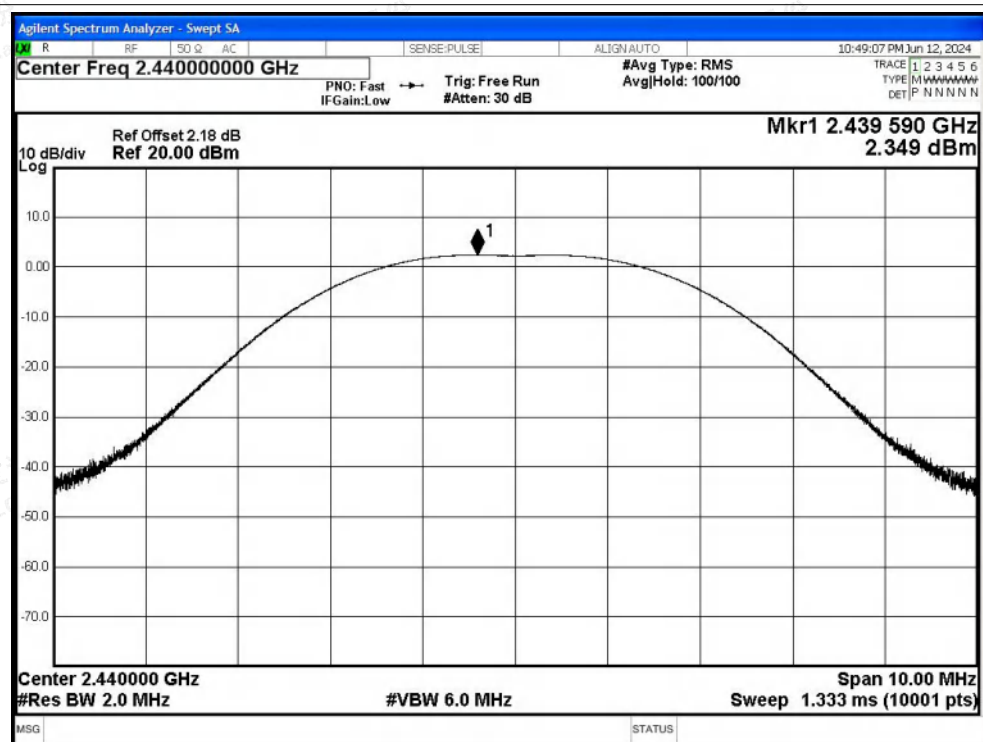
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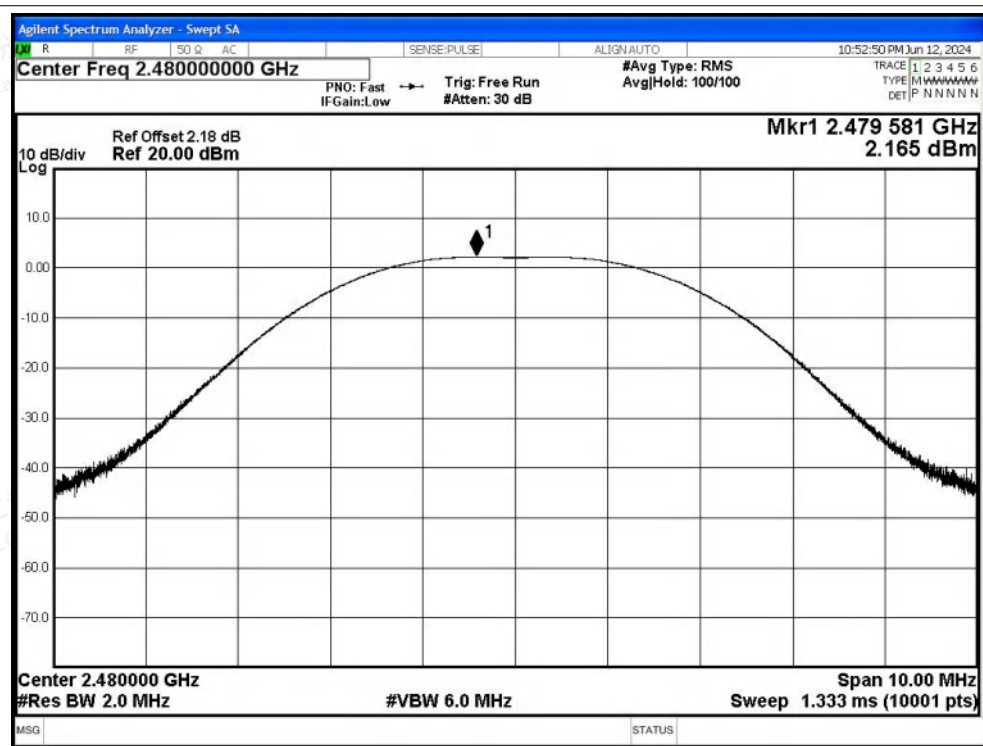
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Power NVNT BLE 2M 2440MHz Ant1



Power NVNT BLE 2M 2480MHz Ant1



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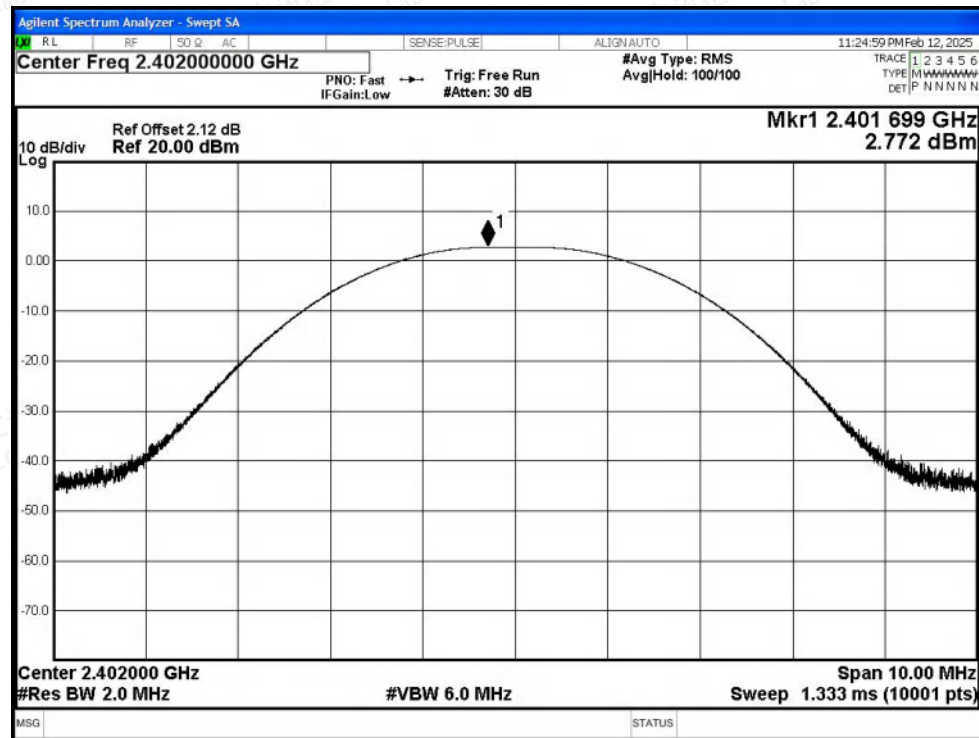
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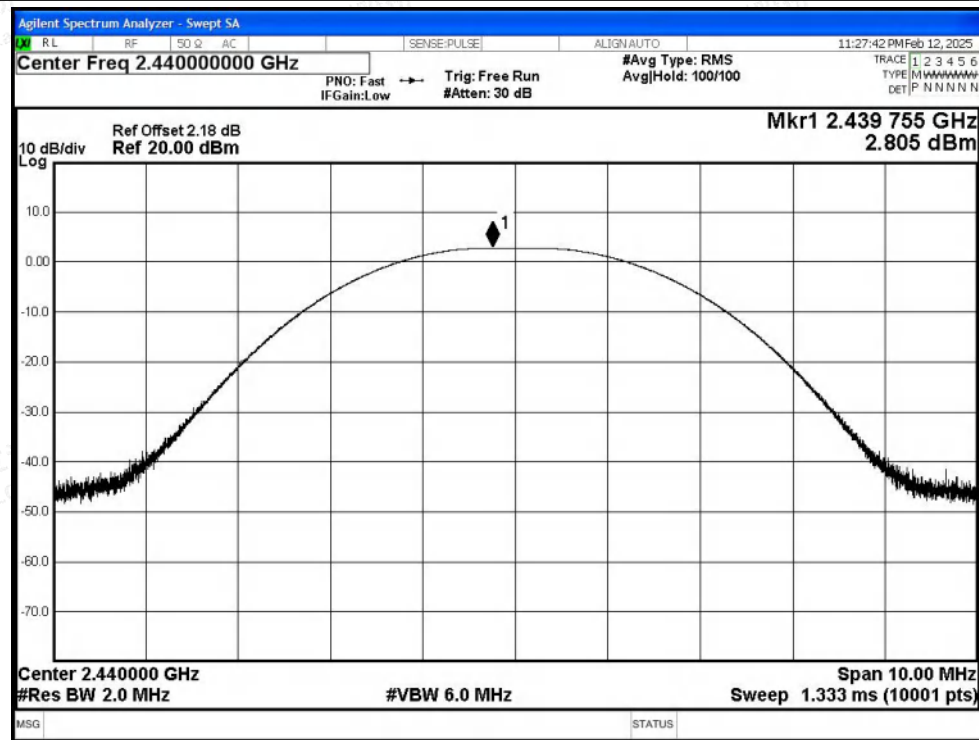
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Power NVNT BLE 125Kbps 2402MHz Ant1



Power NVNT BLE 125Kbps 2440MHz Ant1



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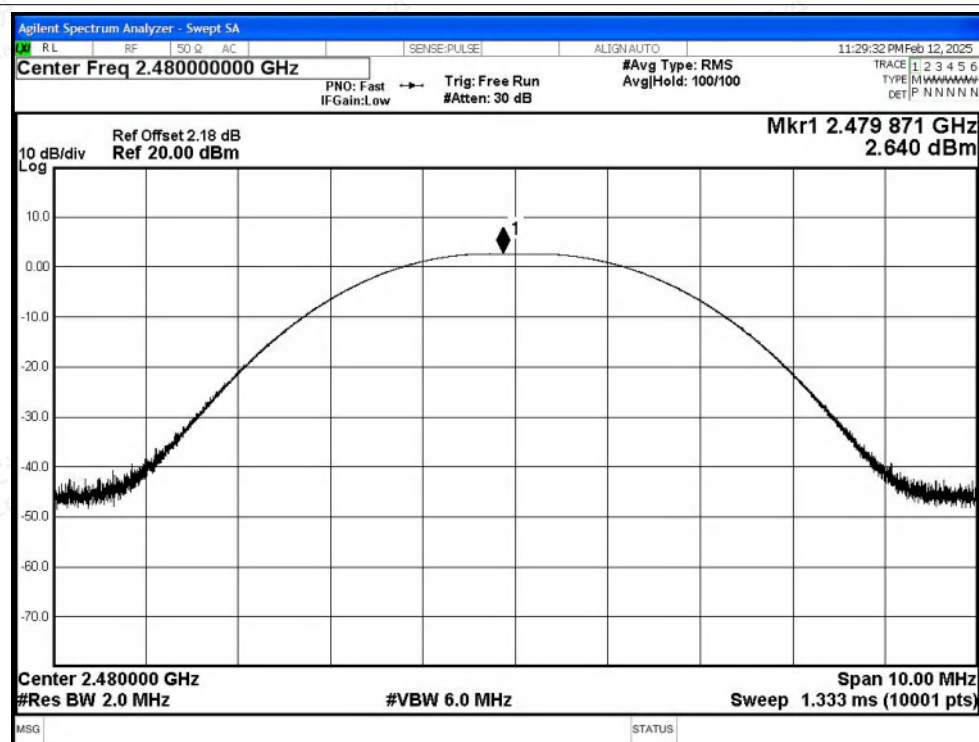
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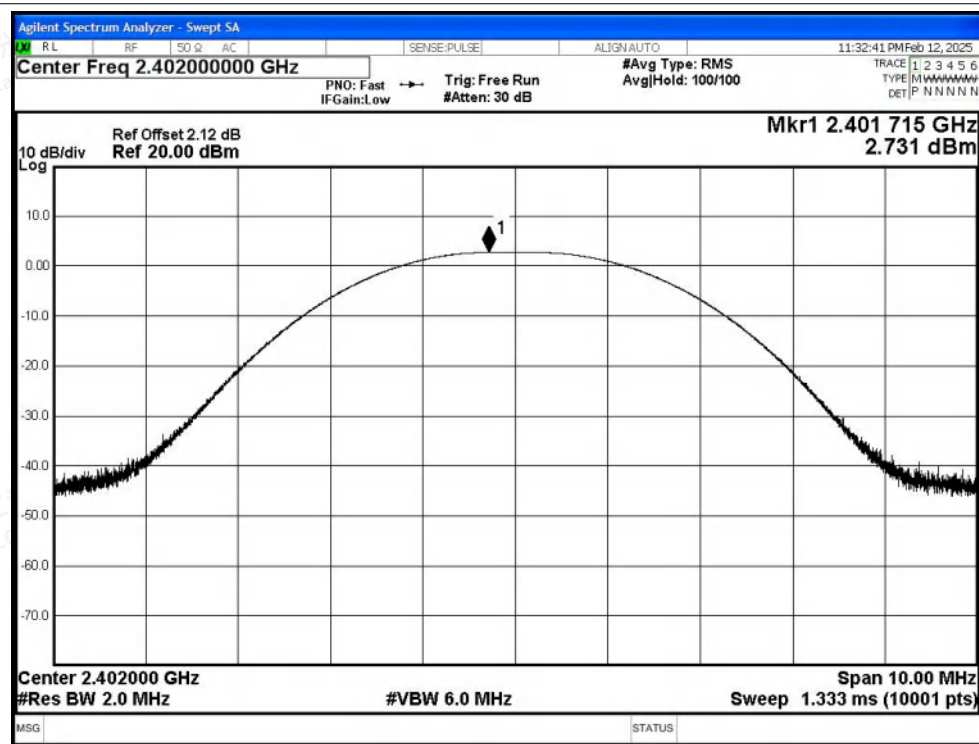
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Power NVNT BLE 125Kbps 2480MHz Ant1



Power NVNT BLE 500Kbps 2402MHz Ant1



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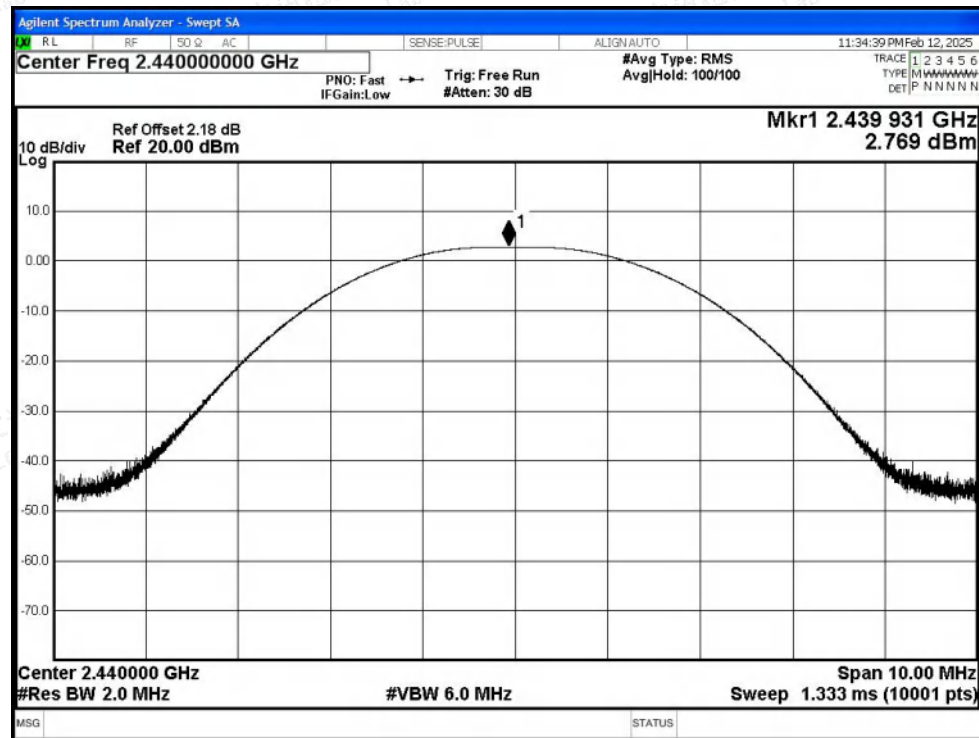
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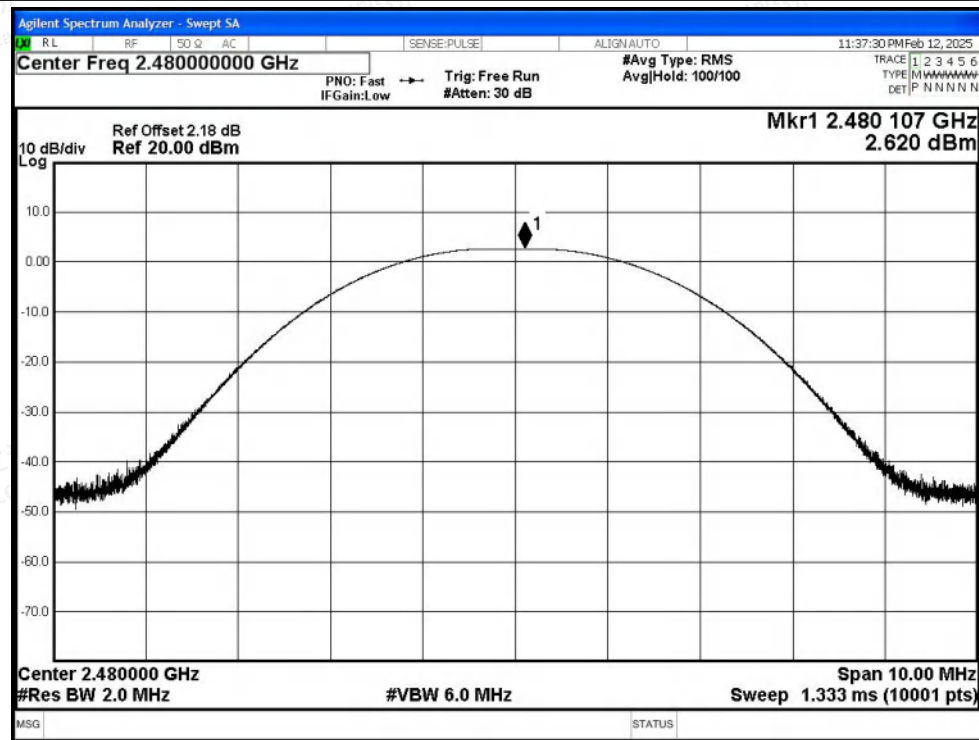
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Power NVNT BLE 500Kbps 2440MHz Ant1



Power NVNT BLE 500Kbps 2480MHz Ant1



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A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-7.27	8	Pass
NVNT	BLE 1M	2440	Ant1	-9.12	8	Pass
NVNT	BLE 1M	2480	Ant1	-9.53	8	Pass
NVNT	BLE 2M	2402	Ant1	-12.08	8	Pass
NVNT	BLE 2M	2440	Ant1	-14.27	8	Pass
NVNT	BLE 2M	2480	Ant1	-13.11	8	Pass
NVNT	BLE 125Kbps	2402	Ant1	-3.33	8	Pass
NVNT	BLE 125Kbps	2440	Ant1	-3.15	8	Pass
NVNT	BLE 125Kbps	2480	Ant1	-3.28	8	Pass
NVNT	BLE 500Kbps	2402	Ant1	-10.33	8	Pass
NVNT	BLE 500Kbps	2440	Ant1	-10.73	8	Pass
NVNT	BLE 500Kbps	2480	Ant1	-10.44	8	Pass



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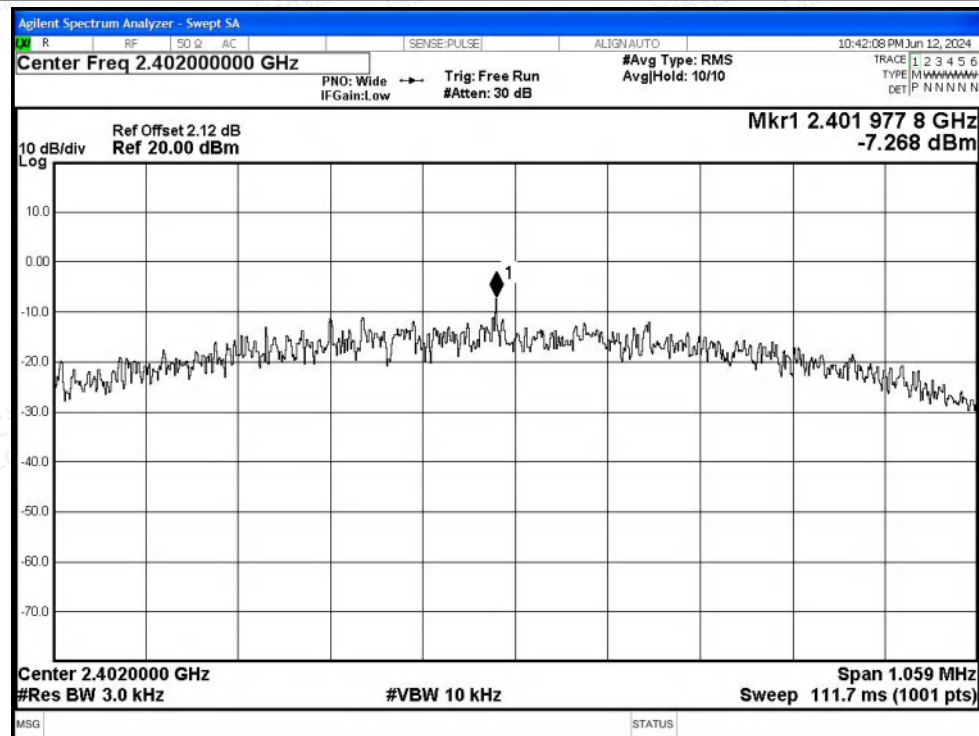
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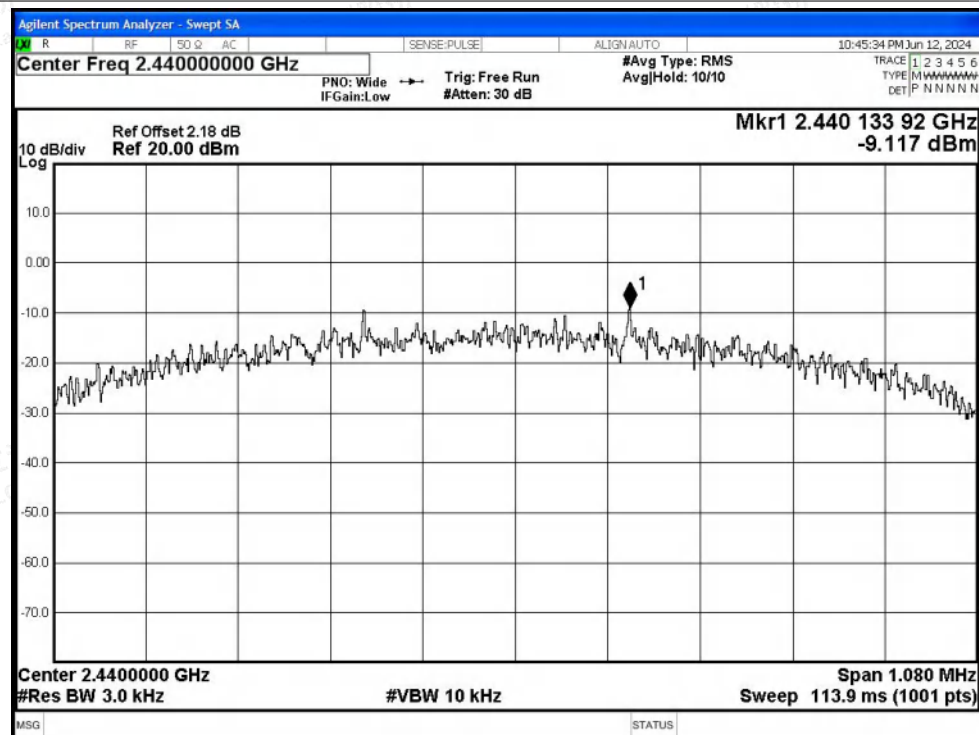


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1



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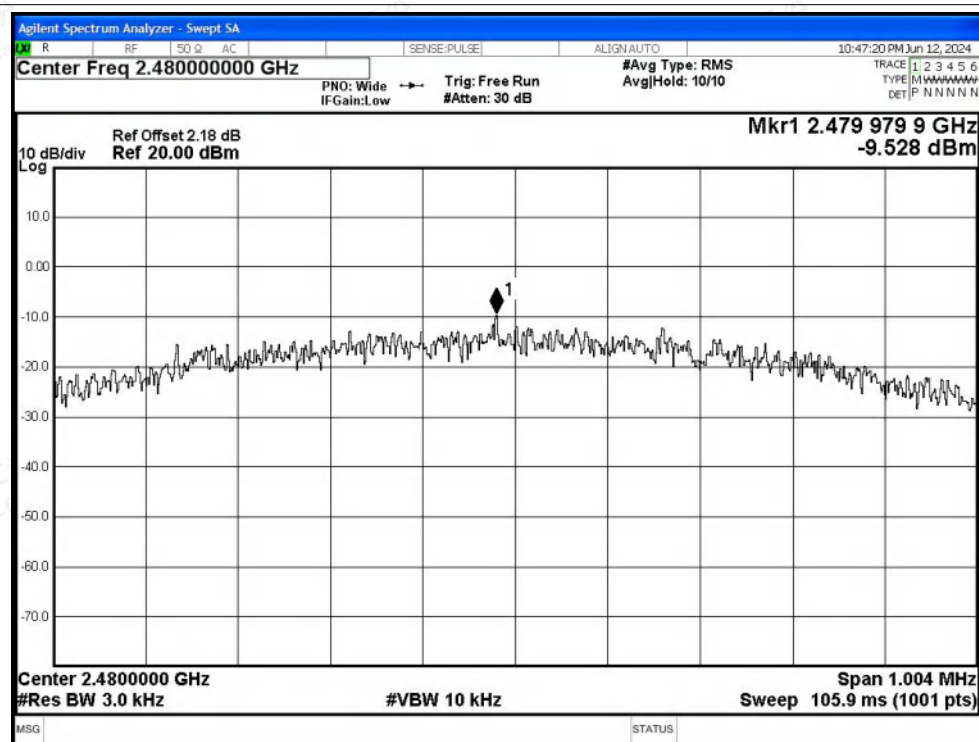
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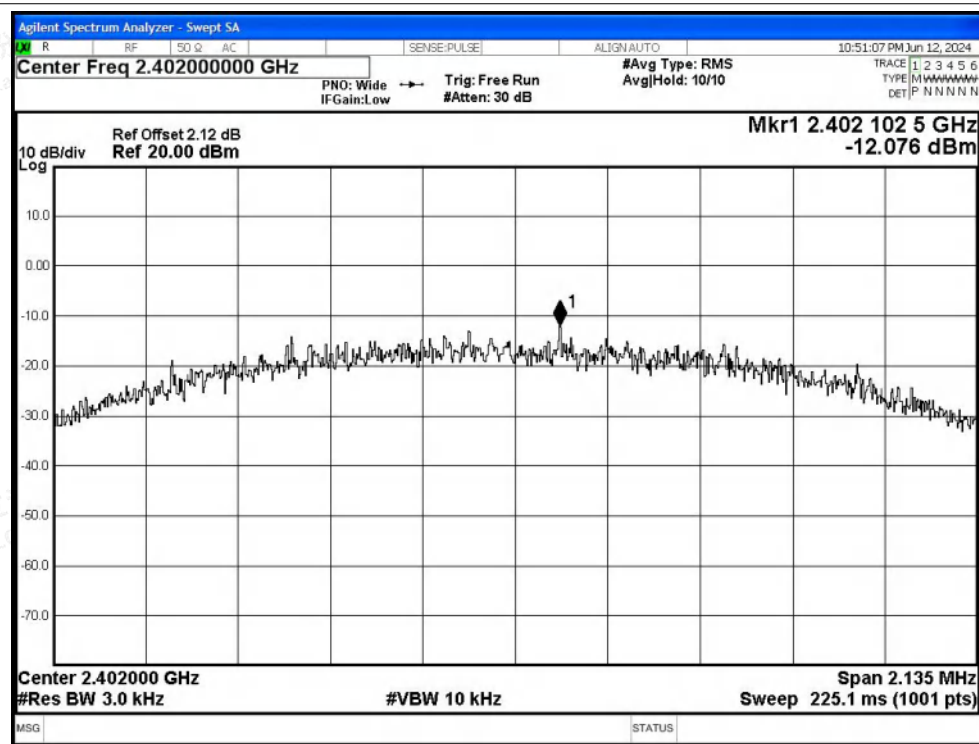
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PSD NVNT BLE 1M 2480MHz Ant1



PSD NVNT BLE 2M 2402MHz Ant1



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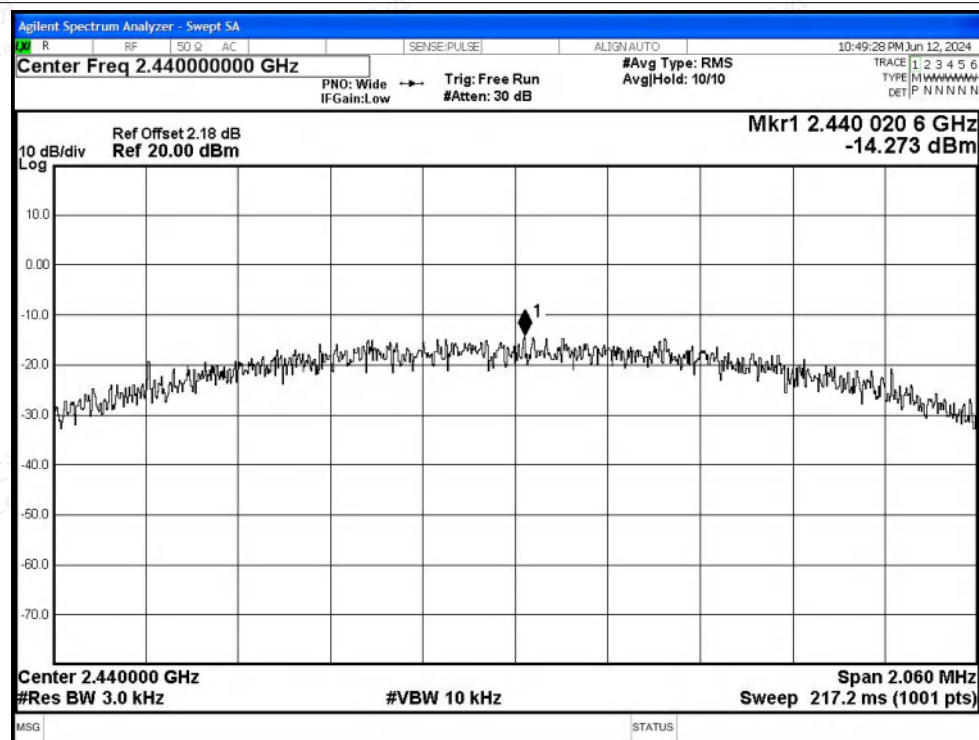
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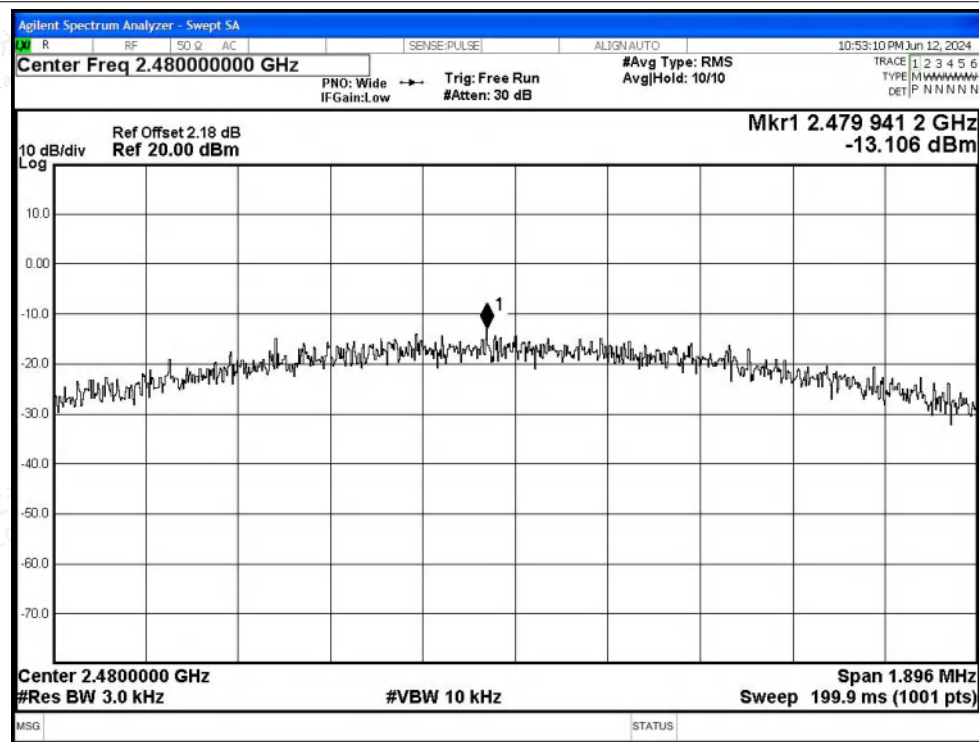
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PSD NVNT BLE 2M 2440MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1



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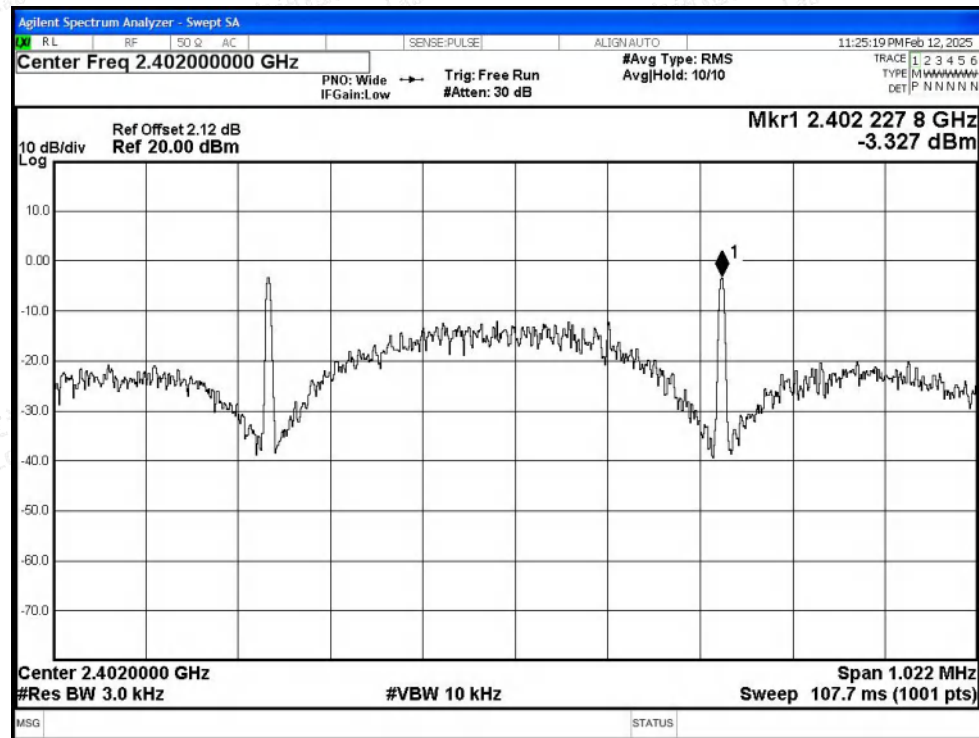
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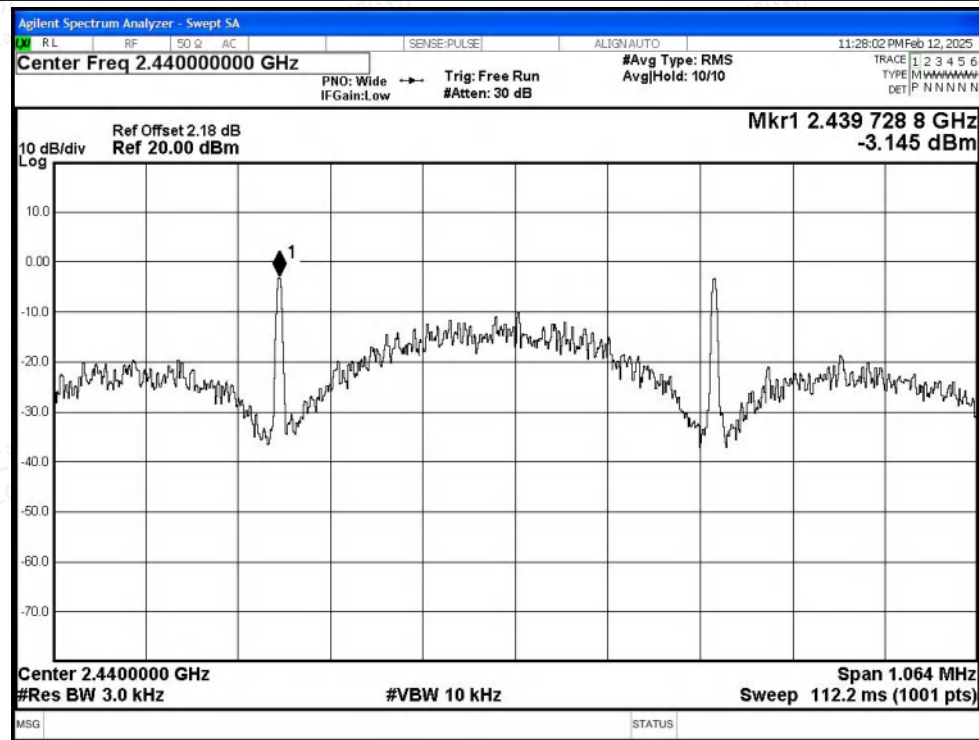
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PSD NVNT BLE 125Kbps 2402MHz Ant1



PSD NVNT BLE 125Kbps 2440MHz Ant1



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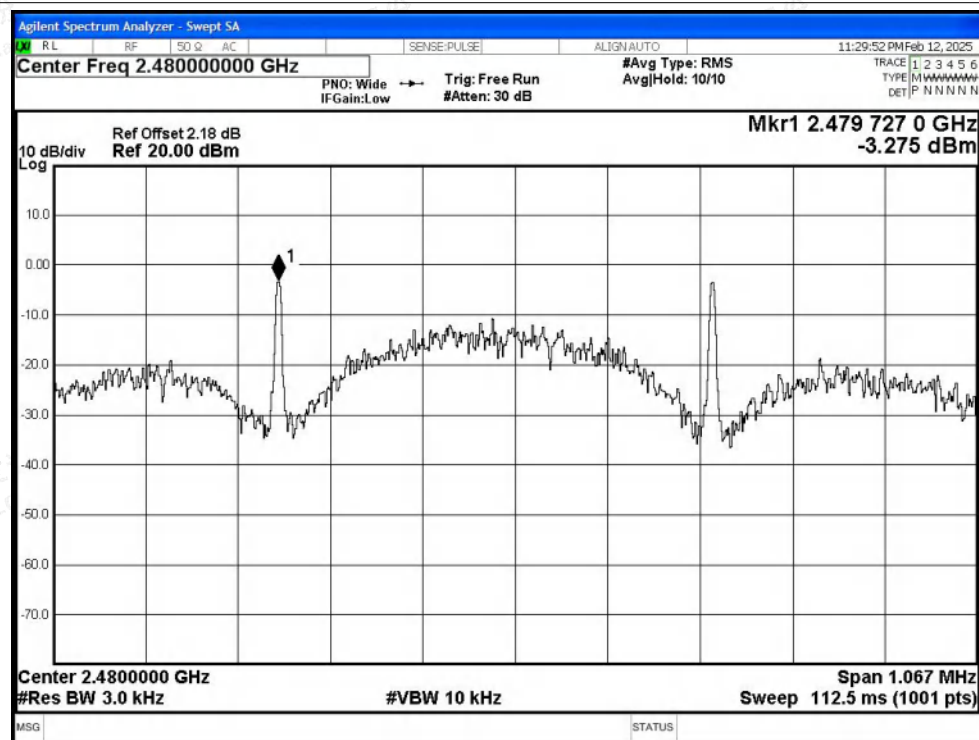
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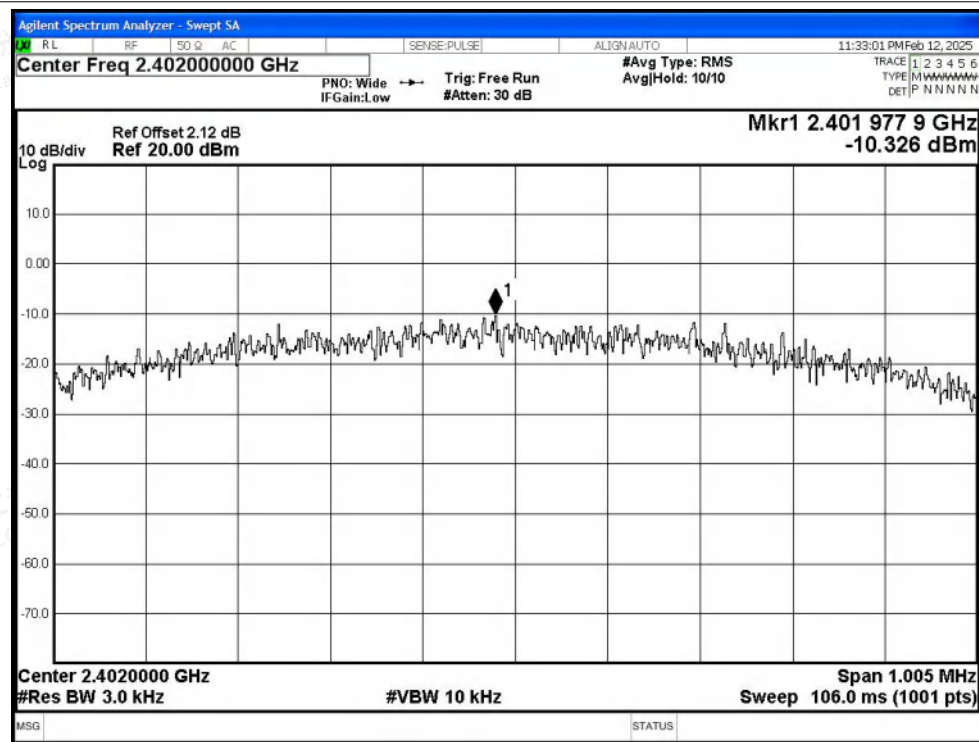
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PSD NVNT BLE 125Kbps 2480MHz Ant1



PSD NVNT BLE 500Kbps 2402MHz Ant1



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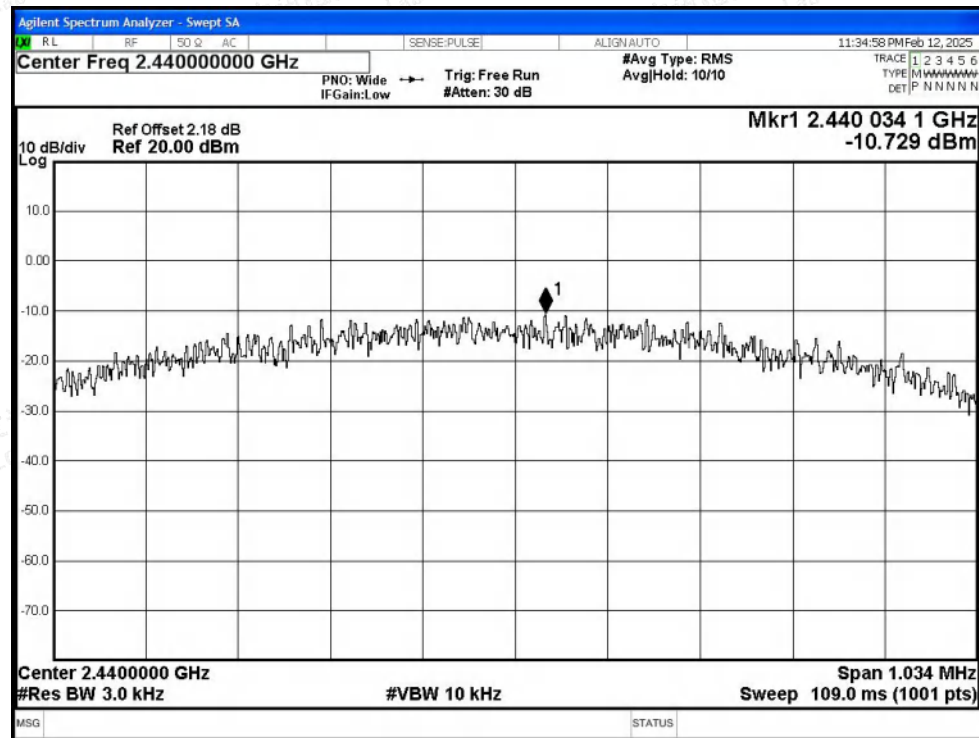
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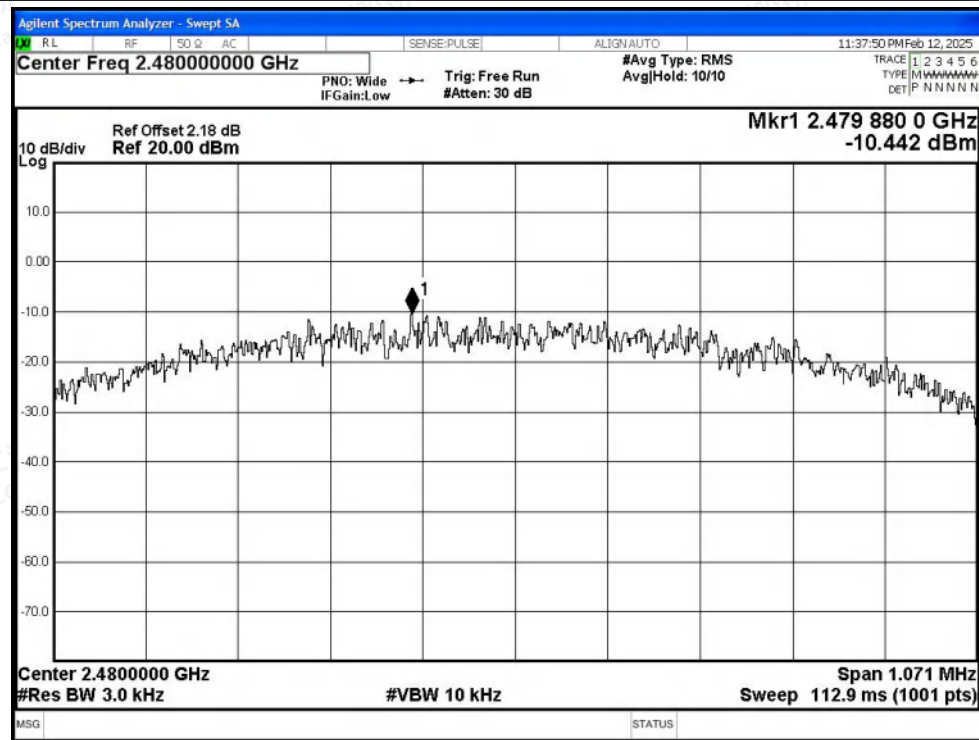
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PSD NVNT BLE 500Kbps 2440MHz Ant1



PSD NVNT BLE 500Kbps 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	-47.37	-20	Pass
NVNT	BLE 1M	2480	Ant1	-56.92	-20	Pass
NVNT	BLE 2M	2402	Ant1	-31.64	-20	Pass
NVNT	BLE 2M	2480	Ant1	-53.93	-20	Pass
NVNT	BLE 125Kbps	2402	Ant1	-44.65	-20	Pass
NVNT	BLE 125Kbps	2480	Ant1	-55.88	-20	Pass
NVNT	BLE 500Kbps	2402	Ant1	-46.76	-20	Pass
NVNT	BLE 500Kbps	2480	Ant1	-58.05	-20	Pass



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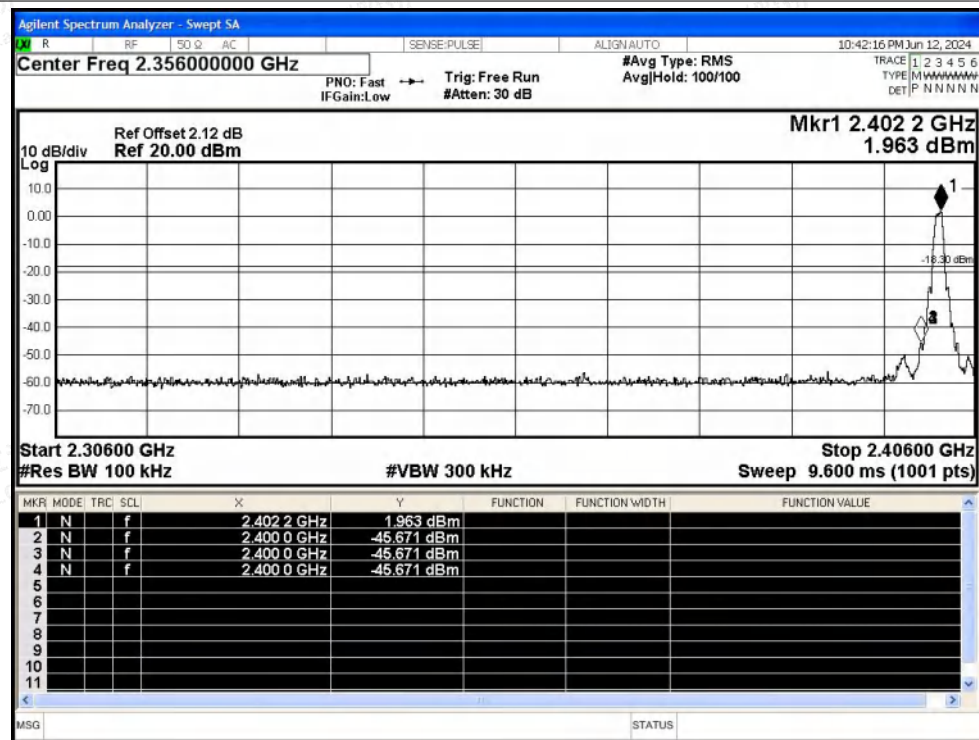


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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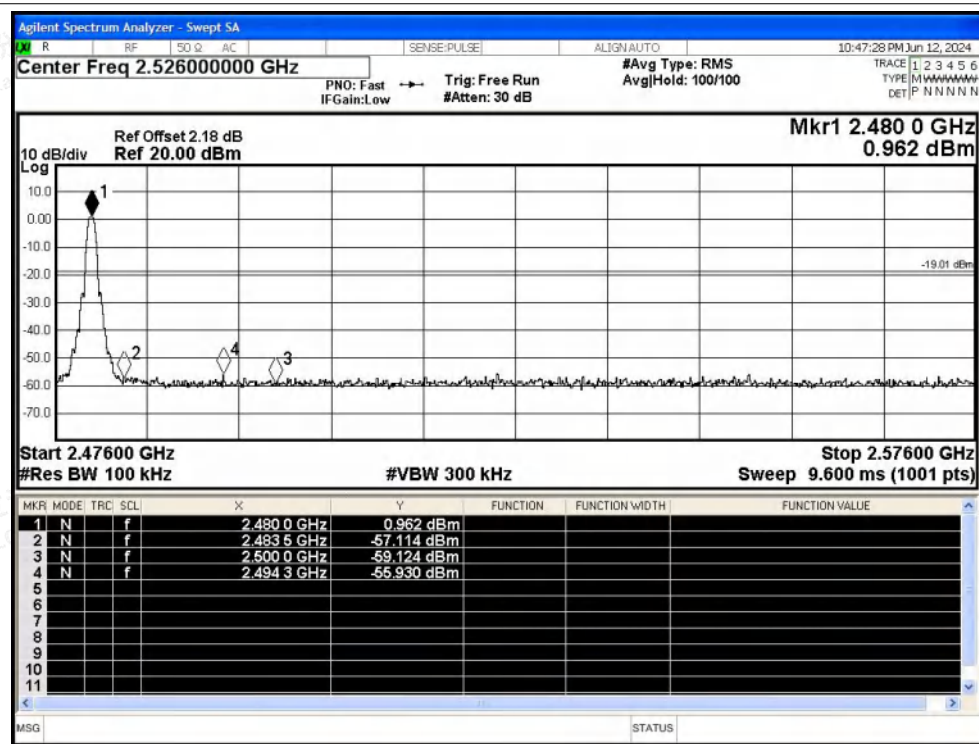
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Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



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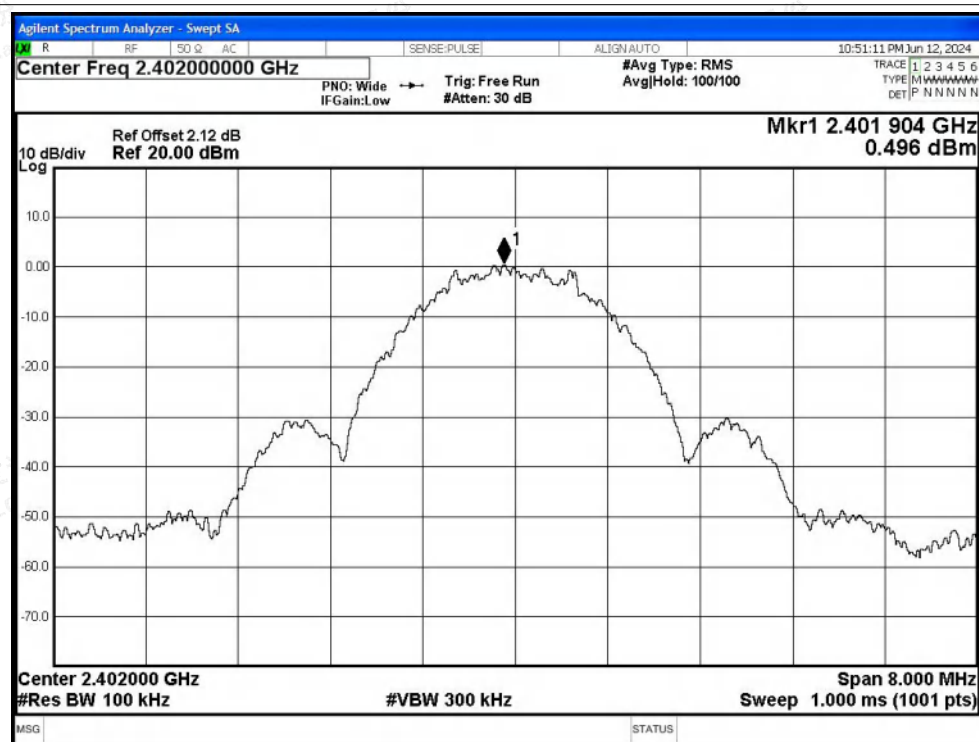
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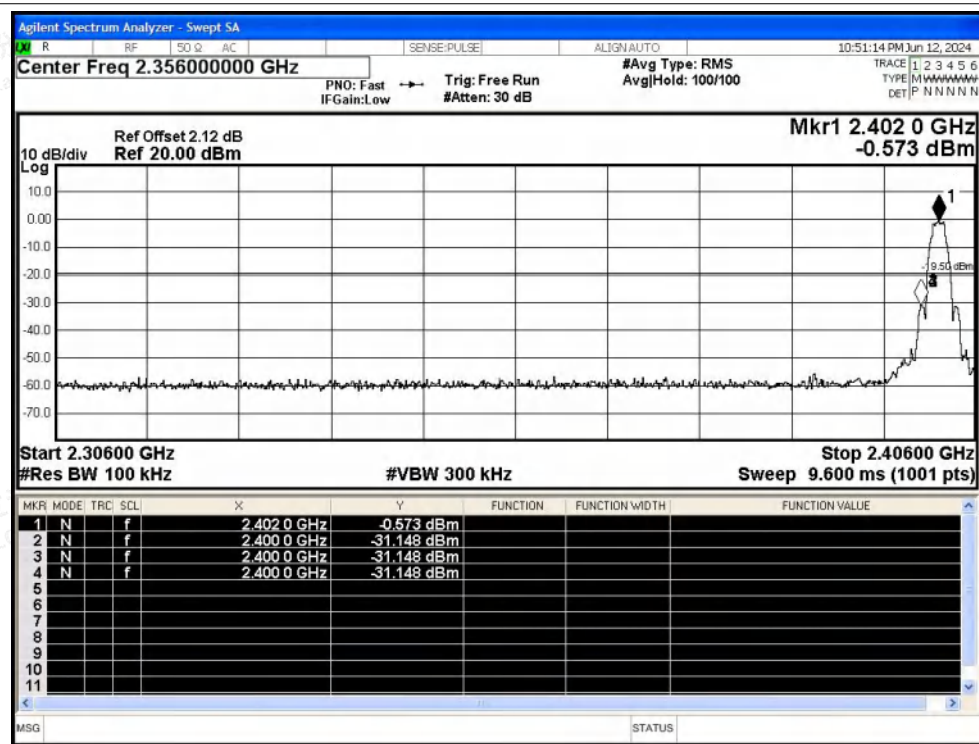
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Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

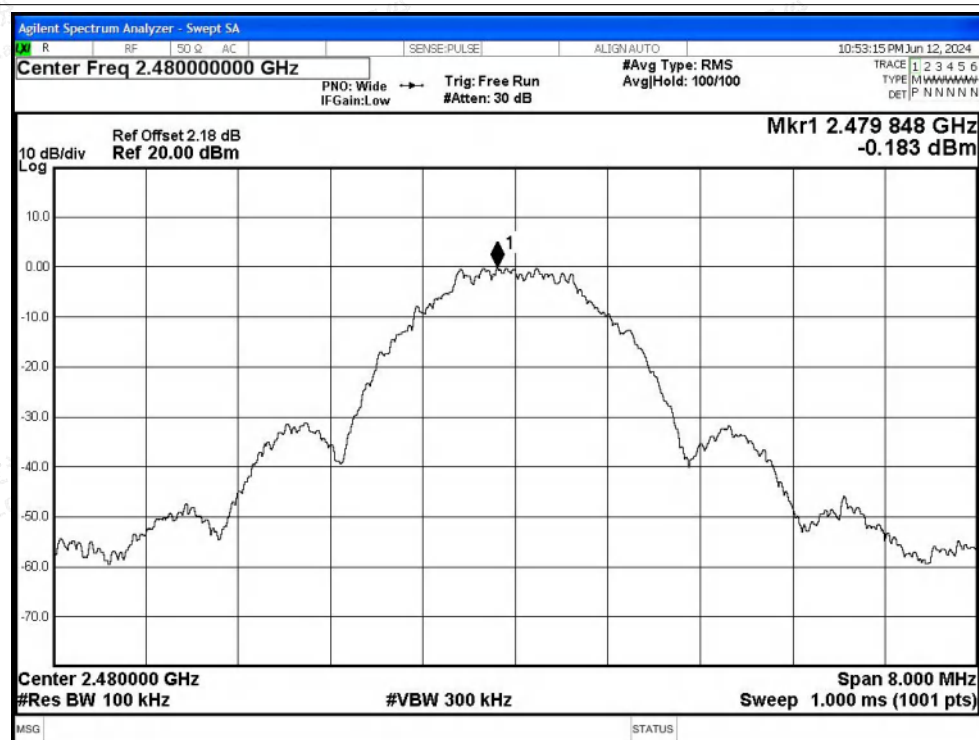
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

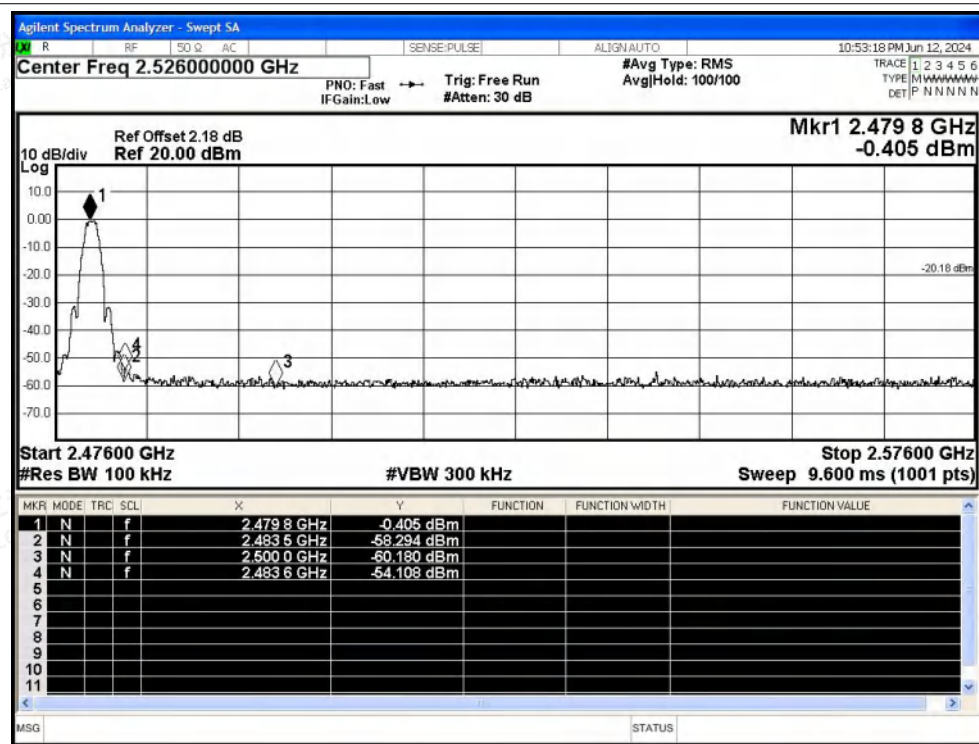
Scan code to check authenticity



Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission



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

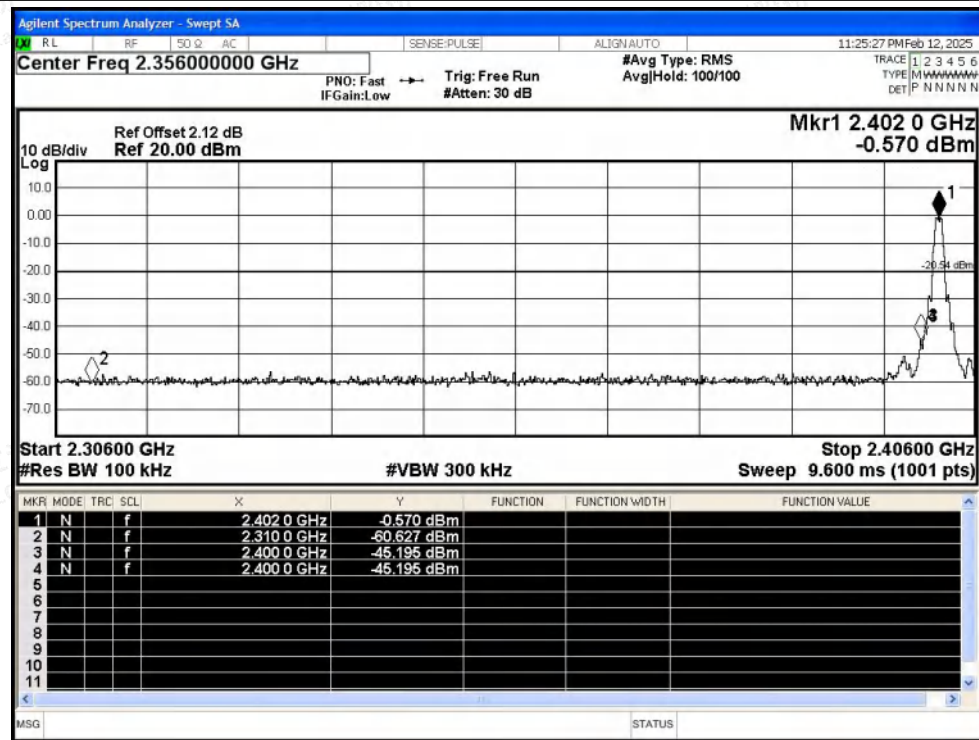
Scan code to check authenticity



Band Edge NVNT BLE 125Kbps 2402MHz Ant1 Ref



Band Edge NVNT BLE 125Kbps 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

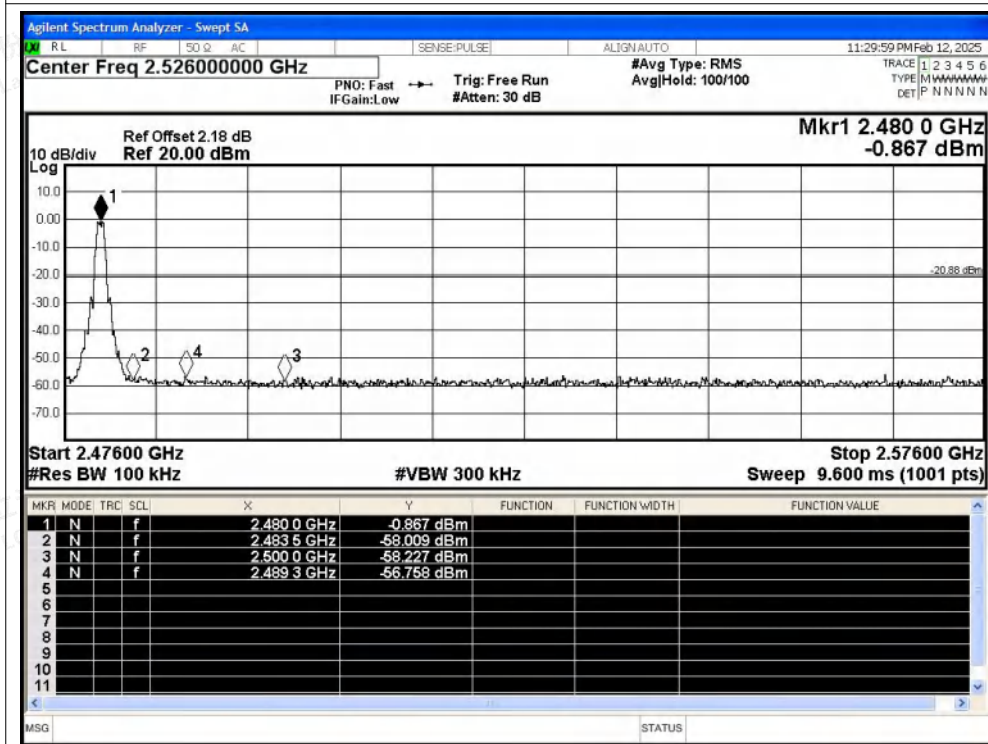
Scan code to check authenticity



Band Edge NVNT BLE 125Kbps 2480MHz Ant1 Ref



Band Edge NVNT BLE 125Kbps 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

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

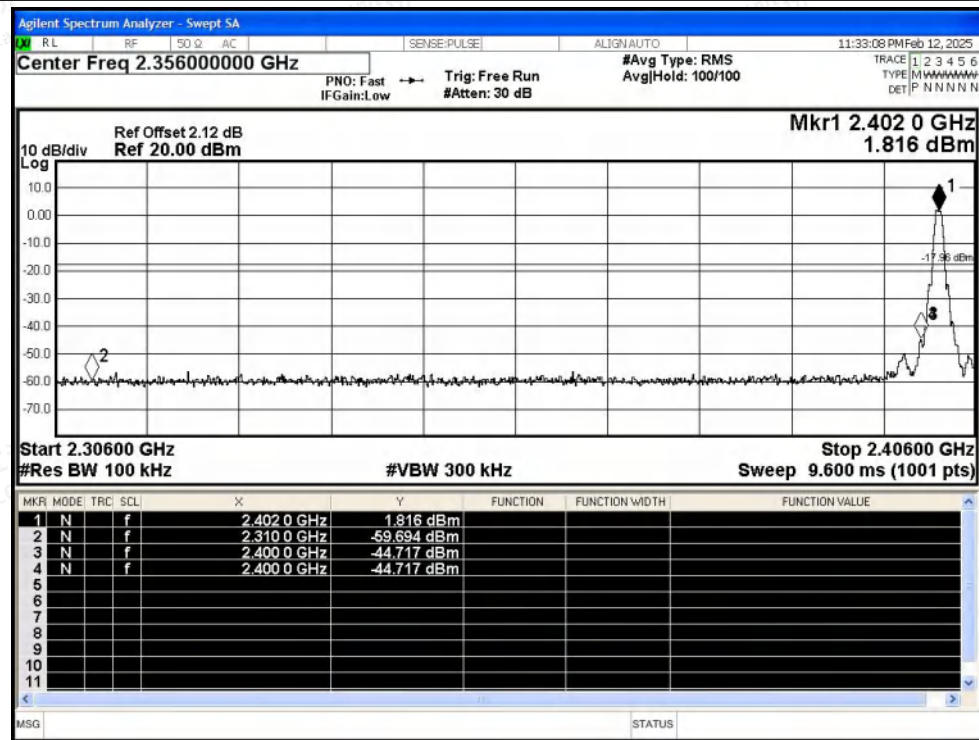
Scan code to check authenticity



Band Edge NVNT BLE 500Kbps 2402MHz Ant1 Ref



Band Edge NVNT BLE 500Kbps 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

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

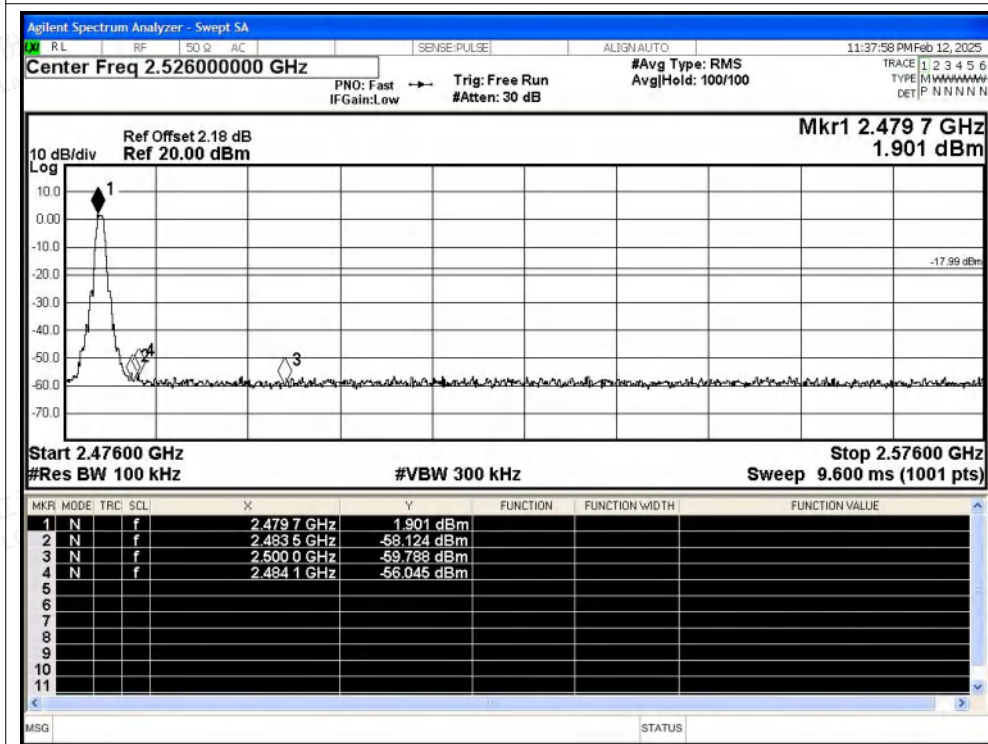
Scan code to check authenticity



Band Edge NVNT BLE 500Kbps 2480MHz Ant1 Ref



Band Edge NVNT BLE 500Kbps 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

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

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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	-48.59	-20	Pass
NVNT	BLE 1M	2440	Ant1	-50.61	-20	Pass
NVNT	BLE 1M	2480	Ant1	-48.6	-20	Pass
NVNT	BLE 2M	2402	Ant1	-47.76	-20	Pass
NVNT	BLE 2M	2440	Ant1	-50.68	-20	Pass
NVNT	BLE 2M	2480	Ant1	-50.97	-20	Pass
NVNT	BLE 125Kbps	2402	Ant1	-44.68	-20	Pass
NVNT	BLE 125Kbps	2440	Ant1	-44.07	-20	Pass
NVNT	BLE 125Kbps	2480	Ant1	-45.4	-20	Pass
NVNT	BLE 500Kbps	2402	Ant1	-46.21	-20	Pass
NVNT	BLE 500Kbps	2440	Ant1	-45.1	-20	Pass
NVNT	BLE 500Kbps	2480	Ant1	-46.47	-20	Pass



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Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

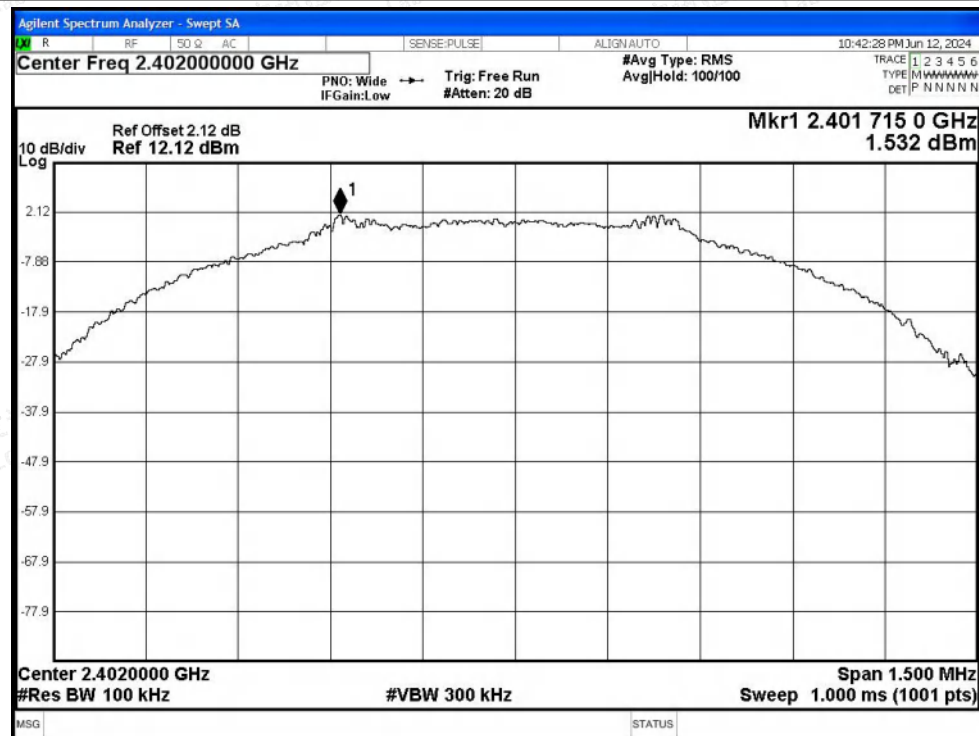
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

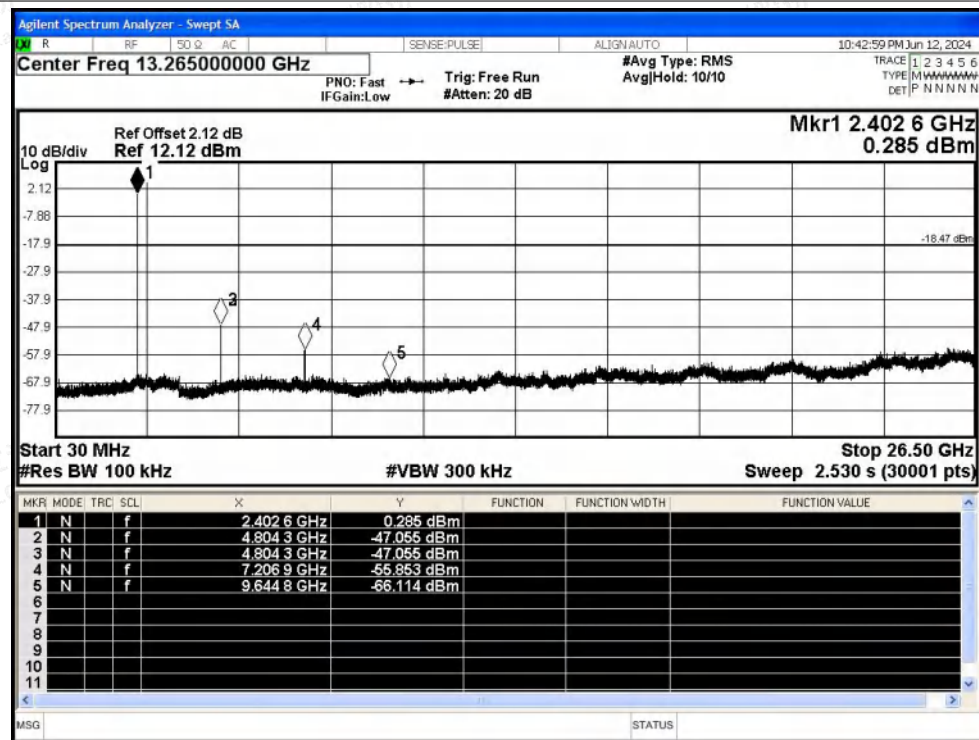


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

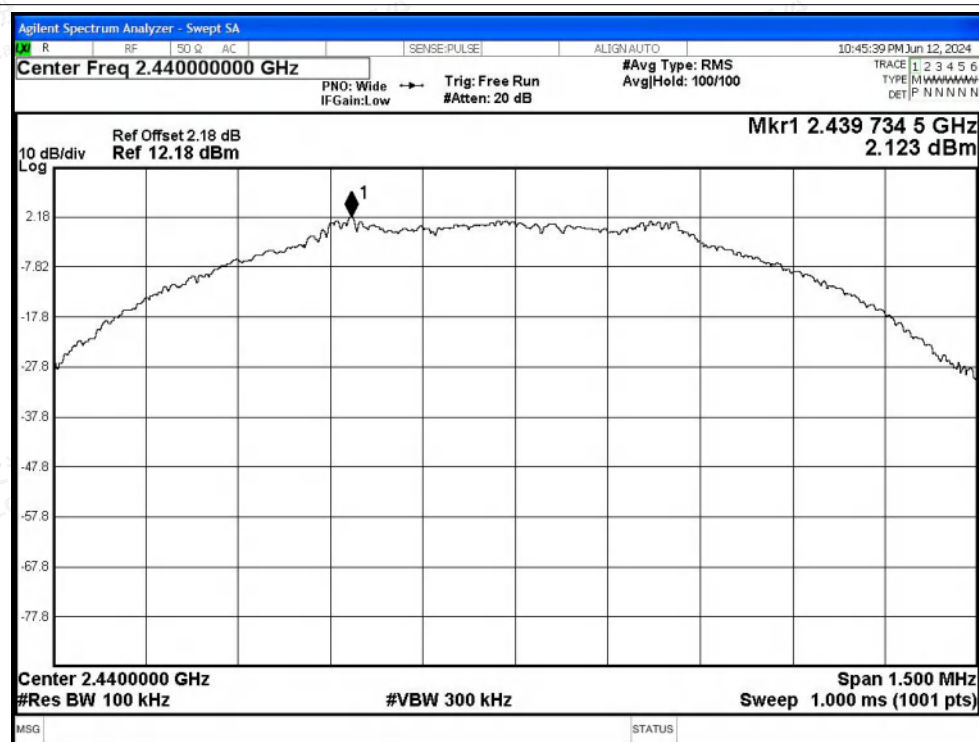
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

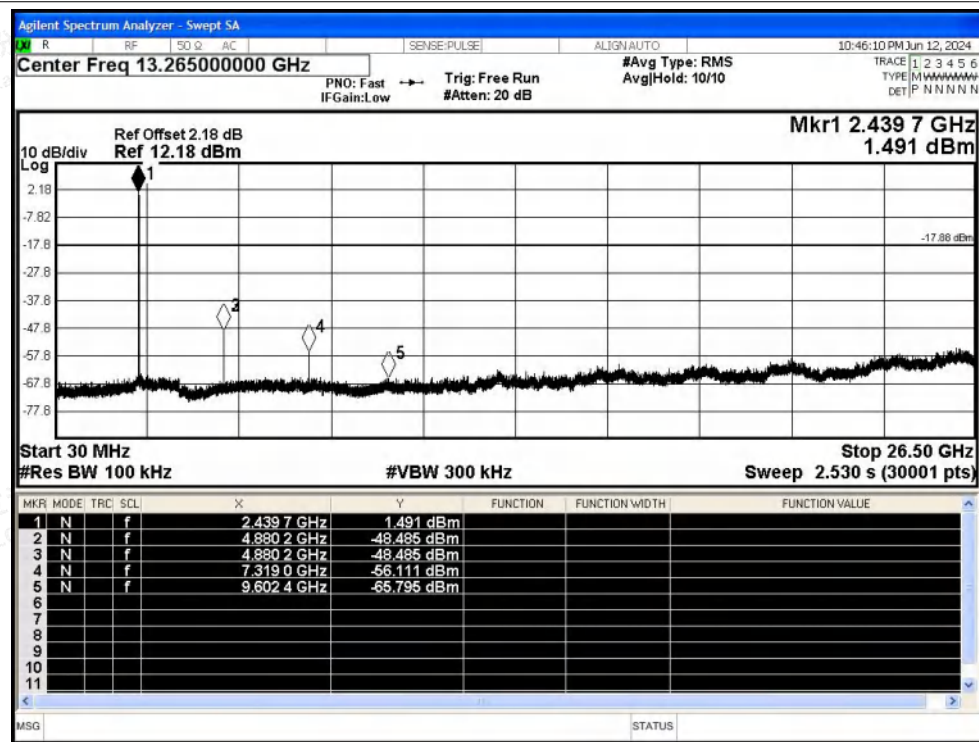
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

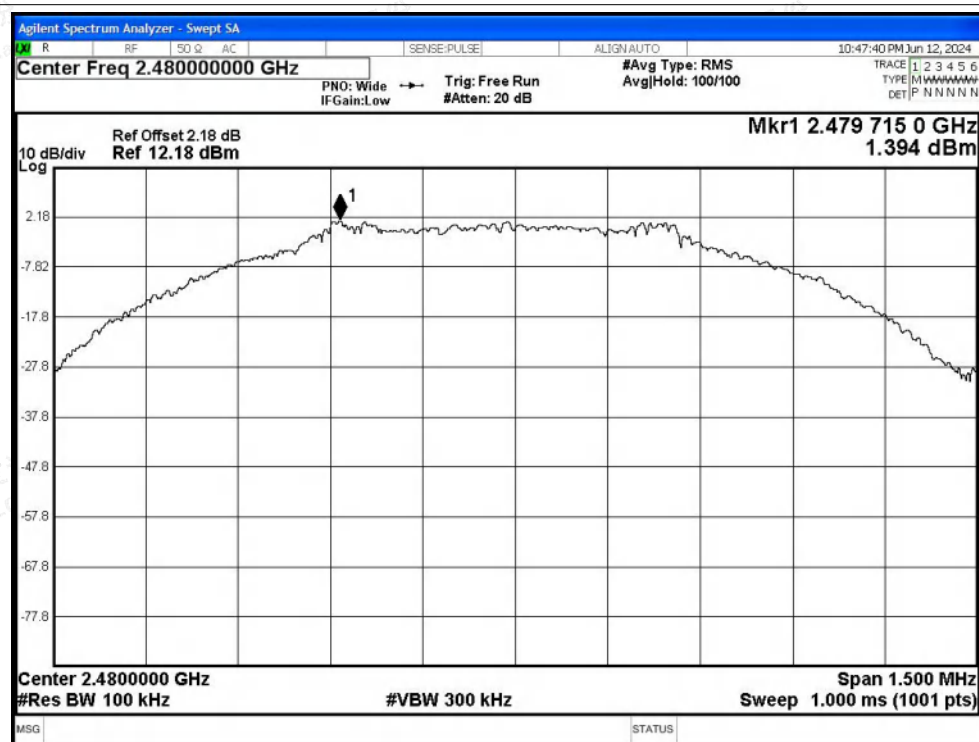
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

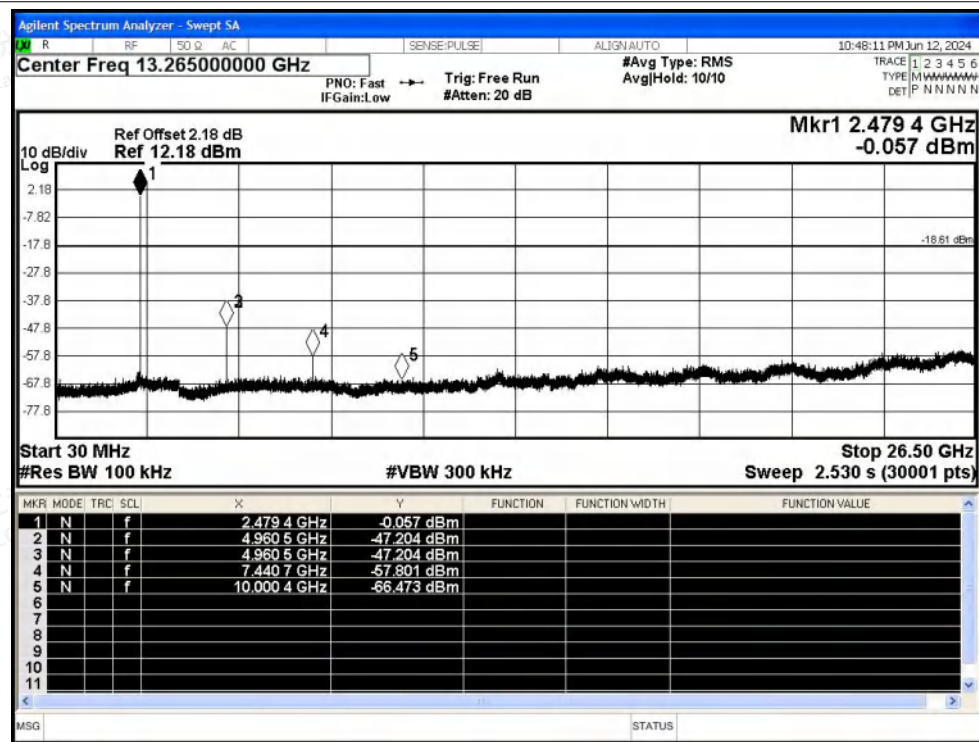
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

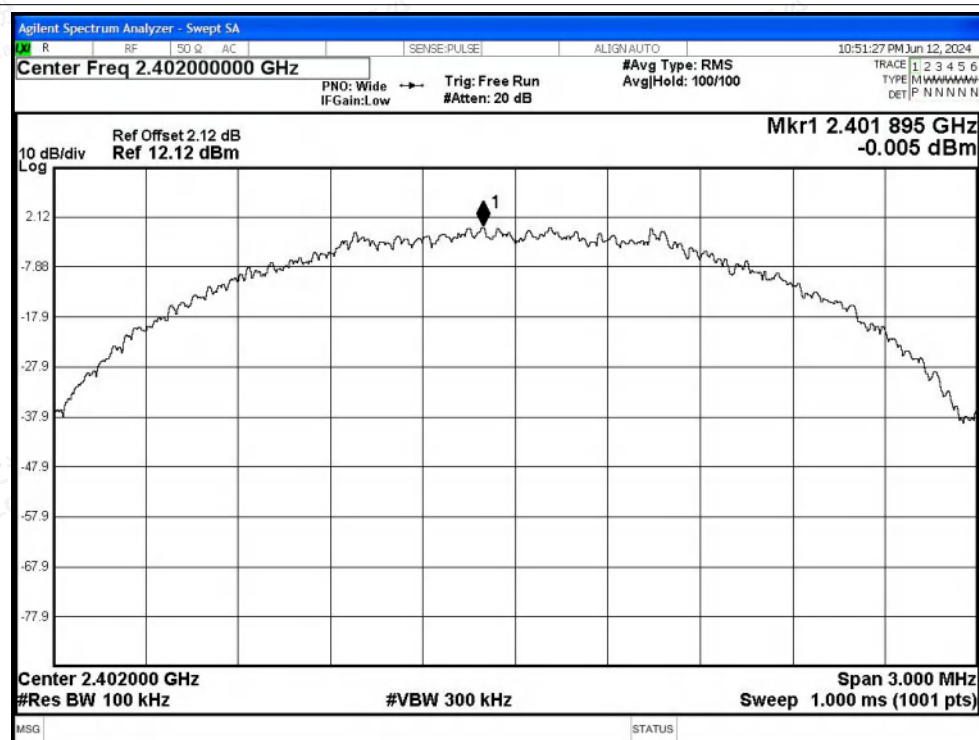
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

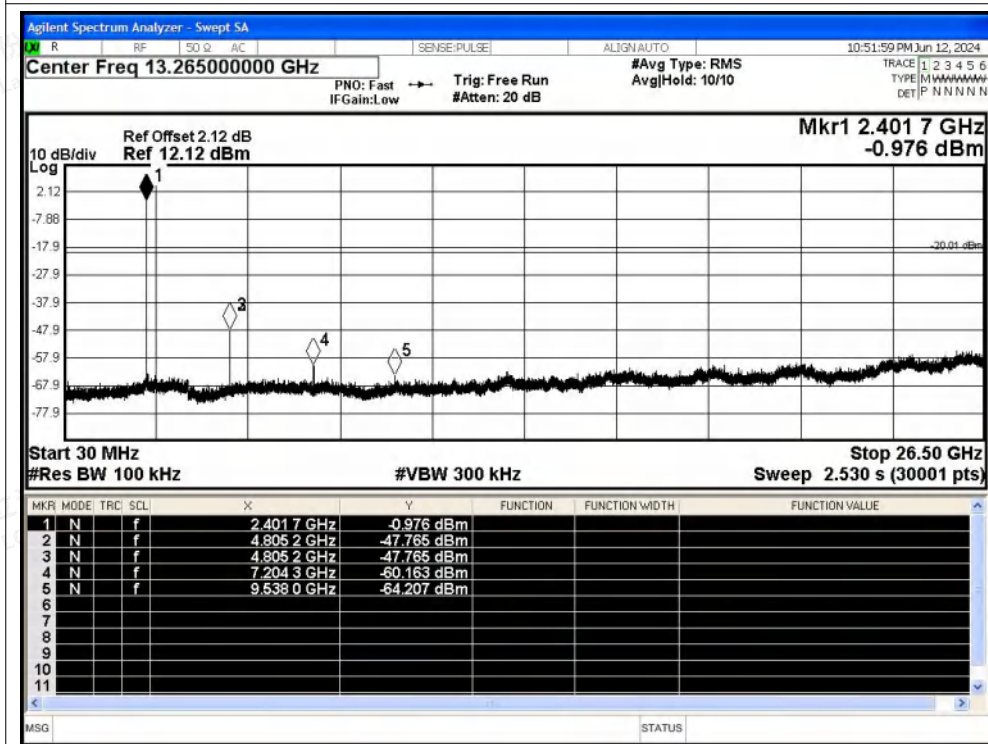
Scan code to check authenticity



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

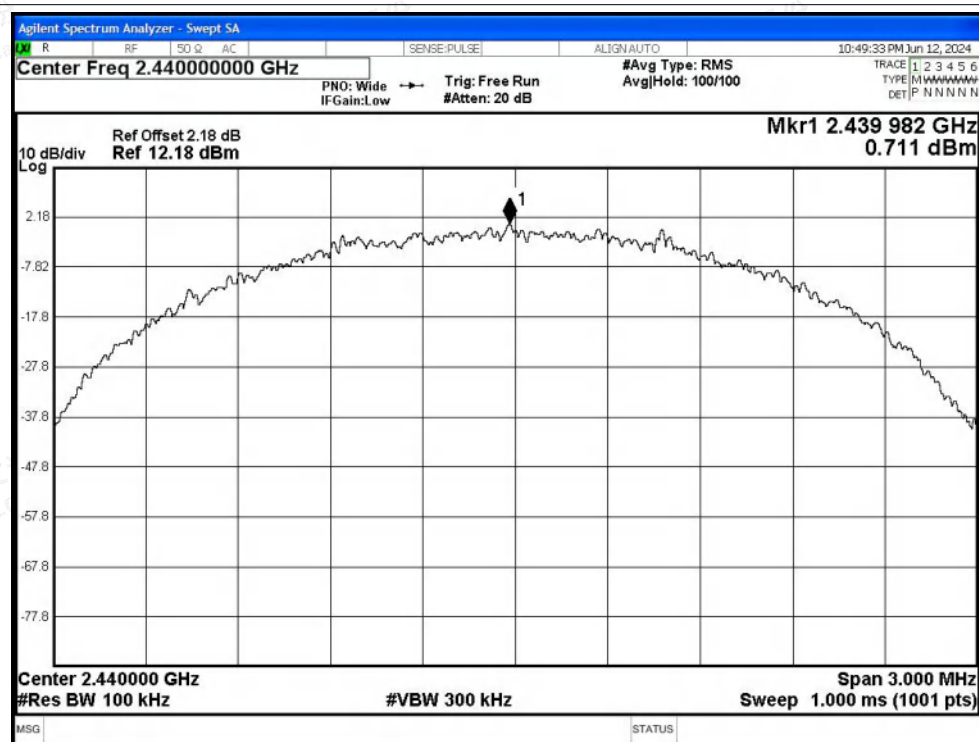
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

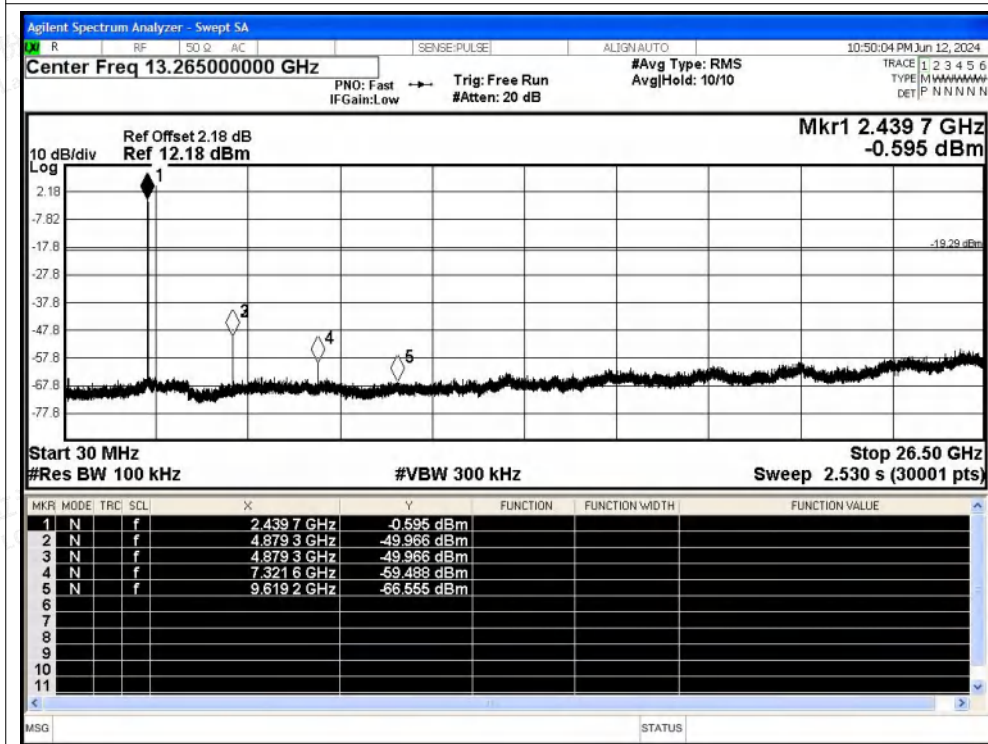
Scan code to check authenticity



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

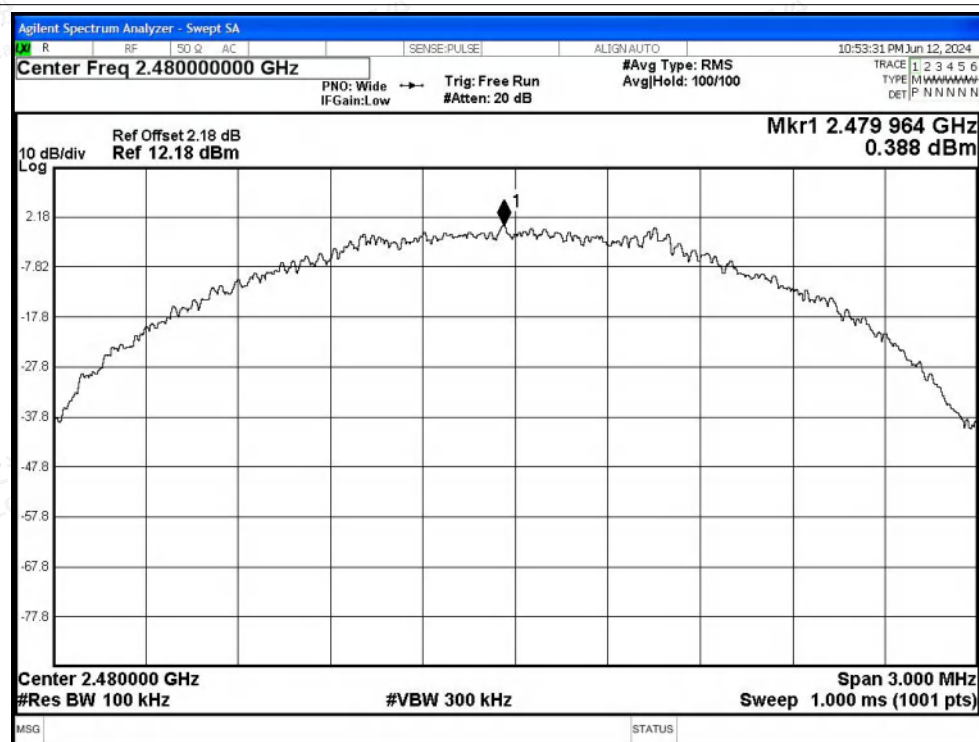
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

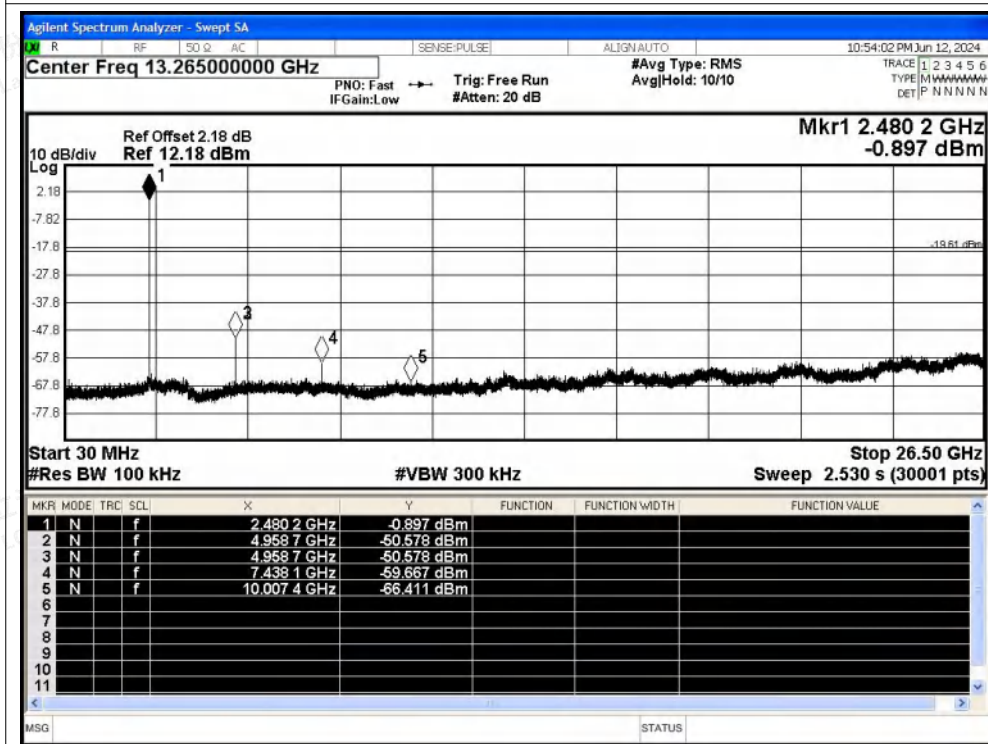
Scan code to check authenticity



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

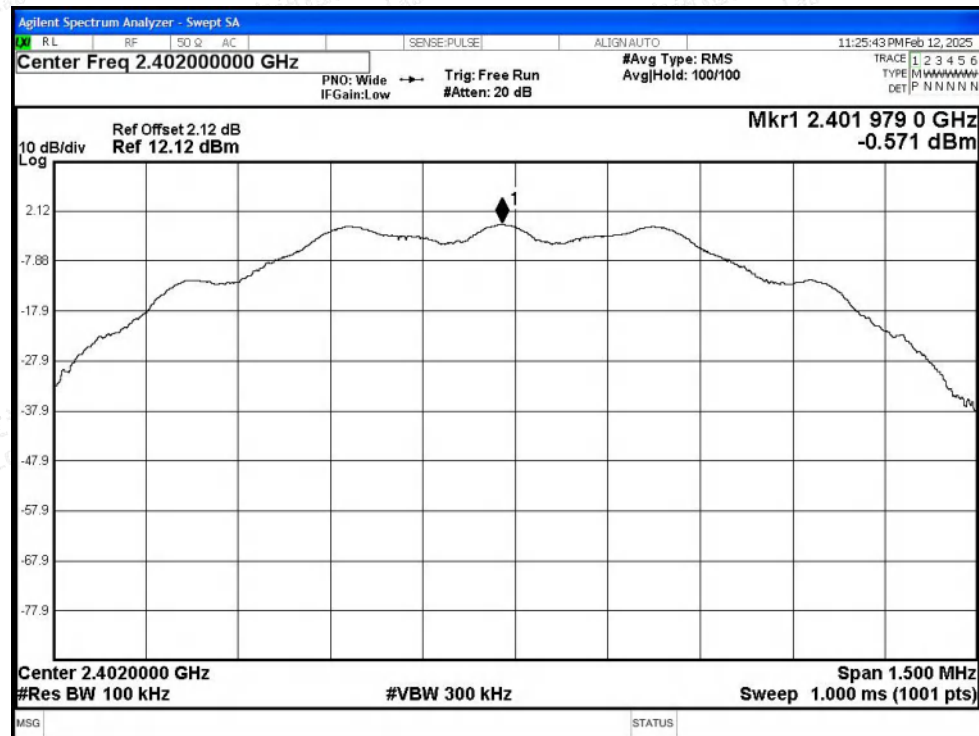
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

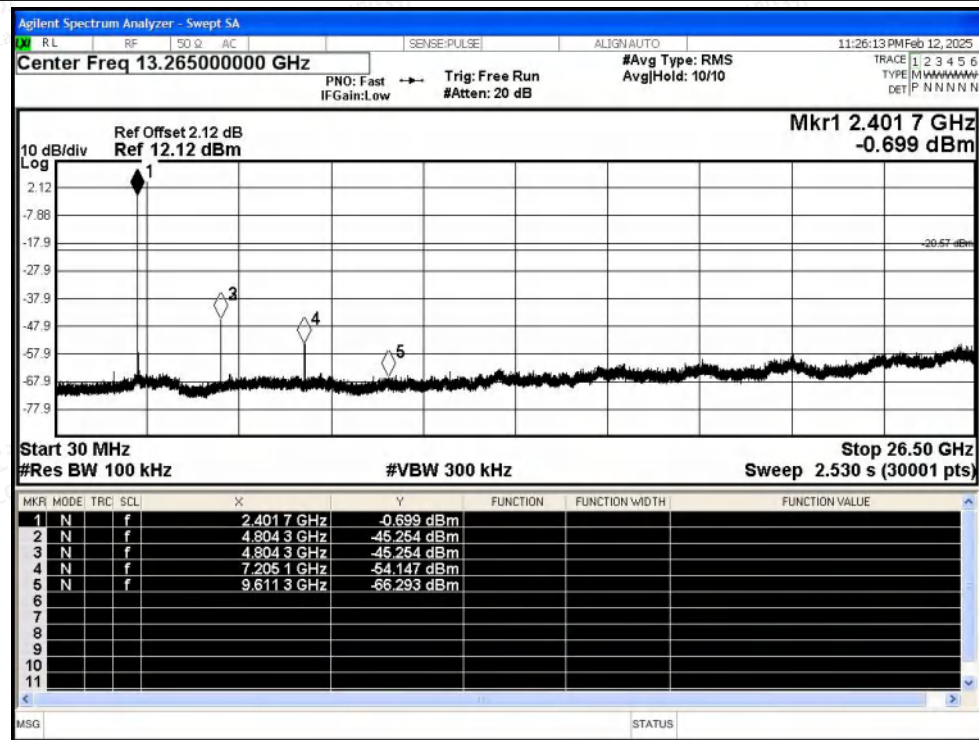
Scan code to check authenticity



Tx. Spurious NVNT BLE 125Kbps 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 125Kbps 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

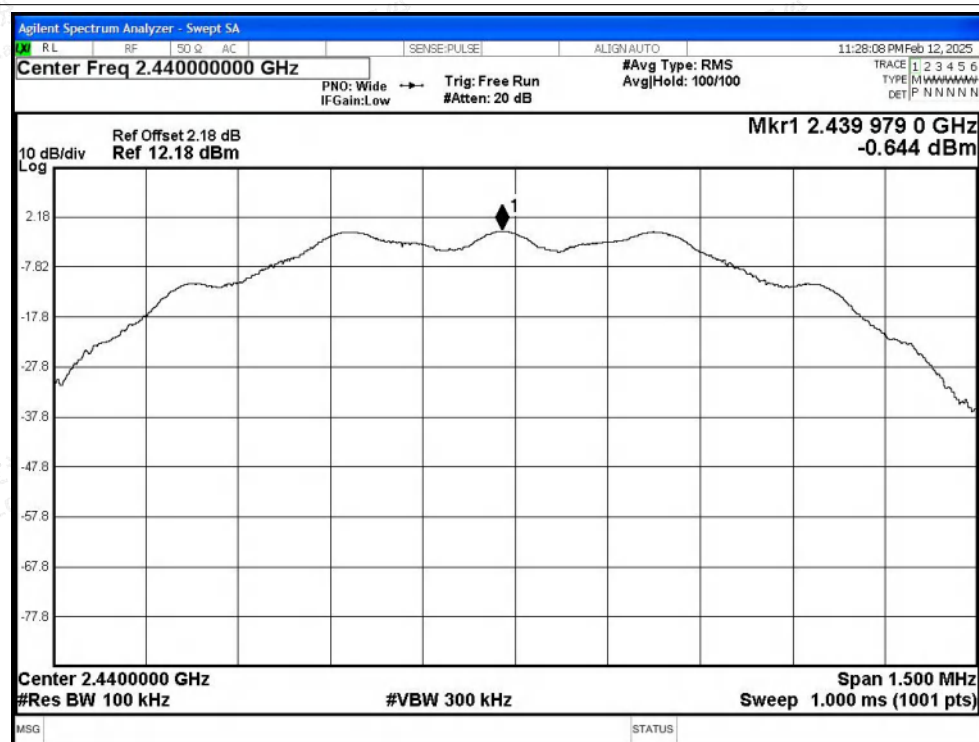
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

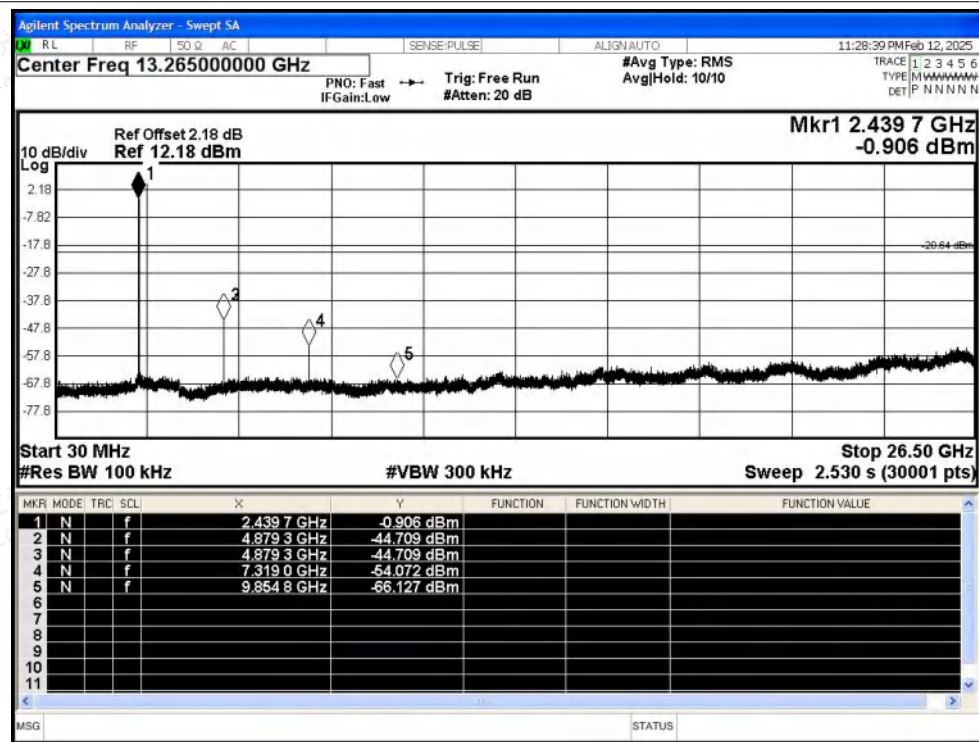
Scan code to check authenticity



Tx. Spurious NVNT BLE 125Kbps 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 125Kbps 2440MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

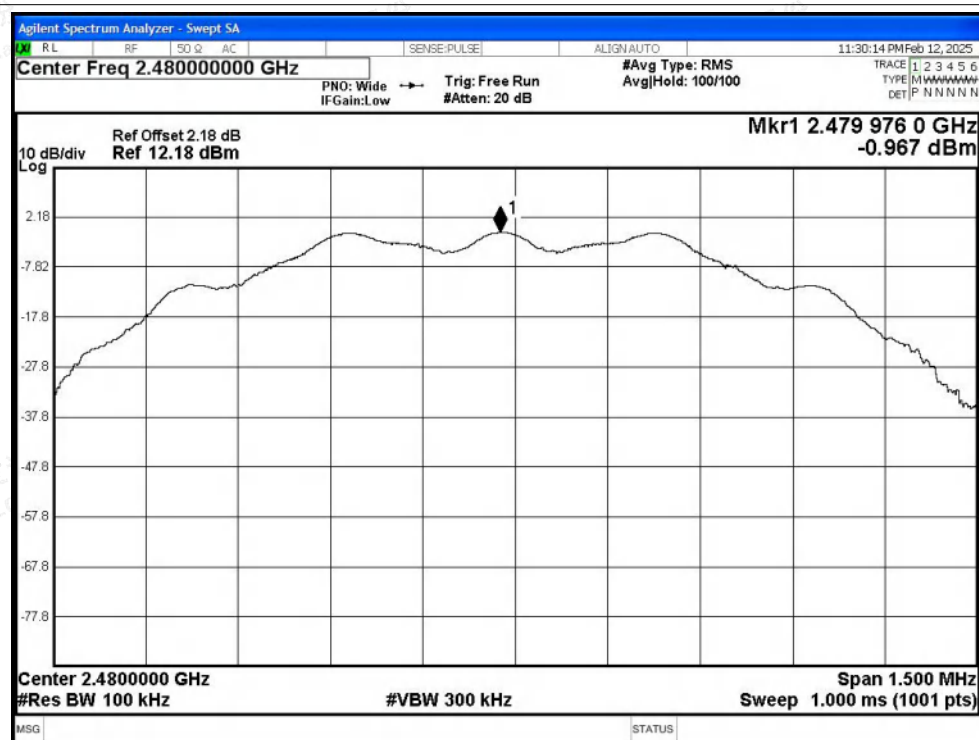
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

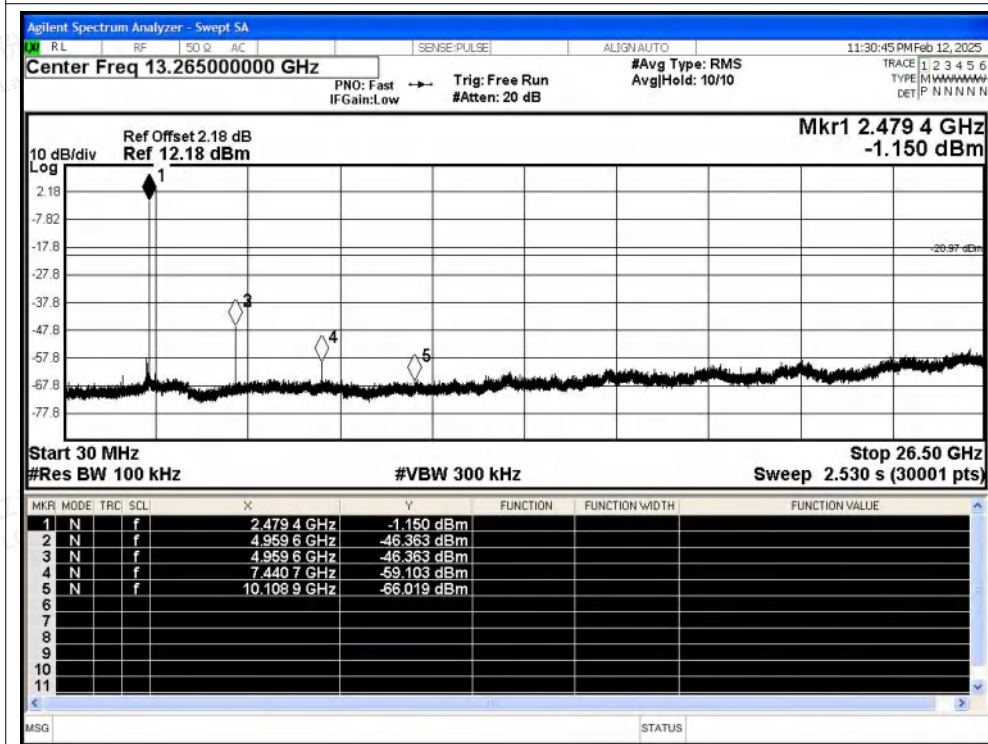
Scan code to check authenticity



Tx. Spurious NVNT BLE 125Kbps 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 125Kbps 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

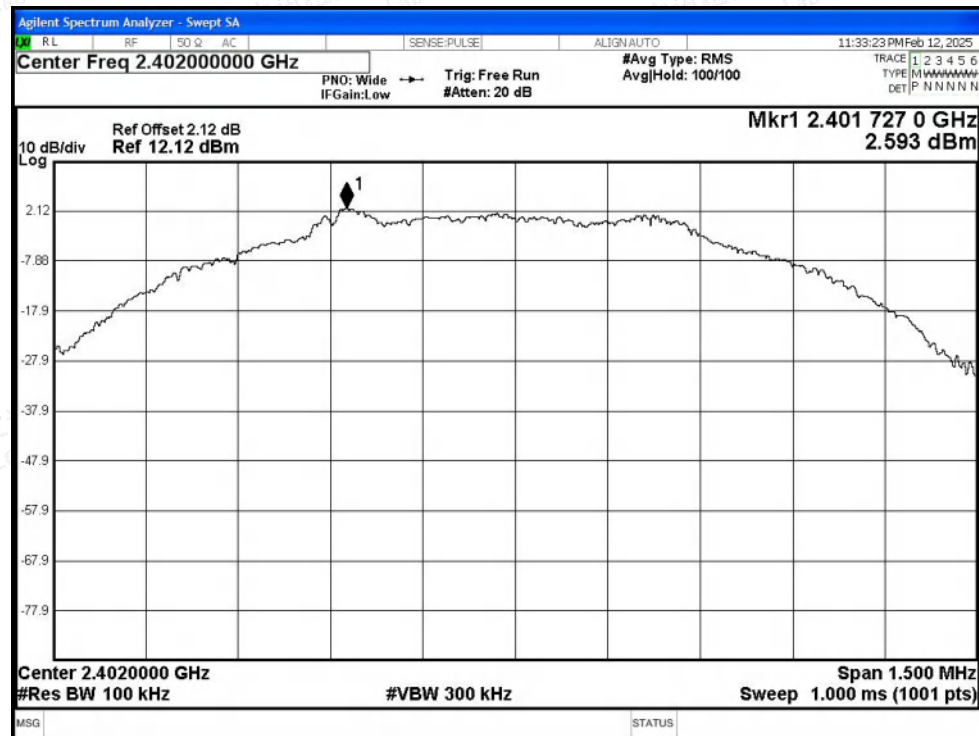
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

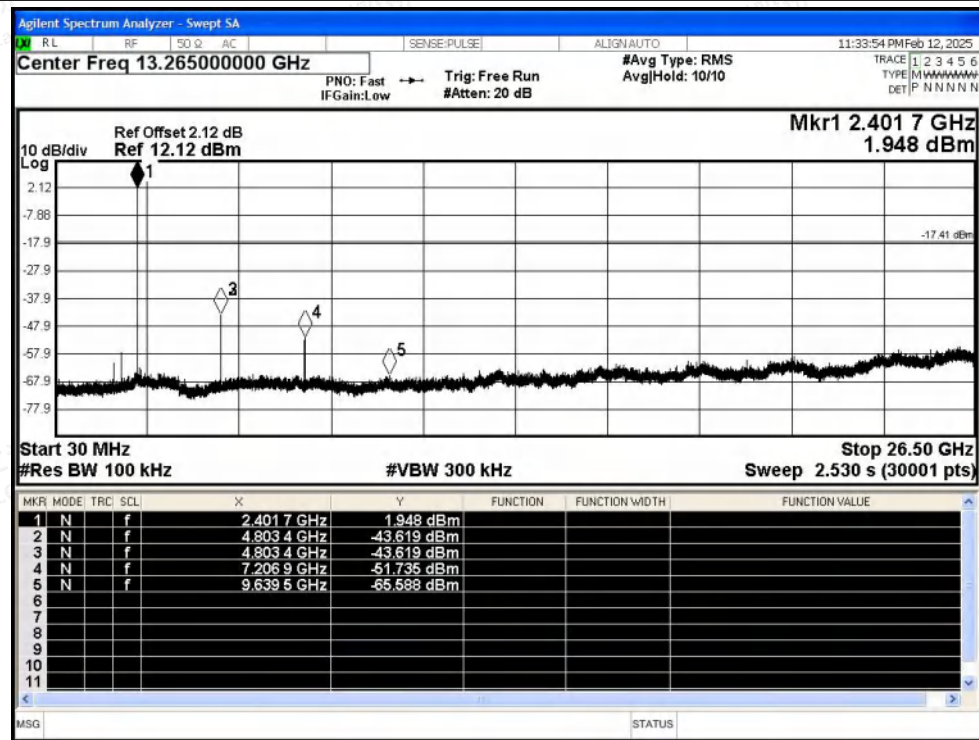
Scan code to check authenticity



Tx. Spurious NVNT BLE 500Kbps 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 500Kbps 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

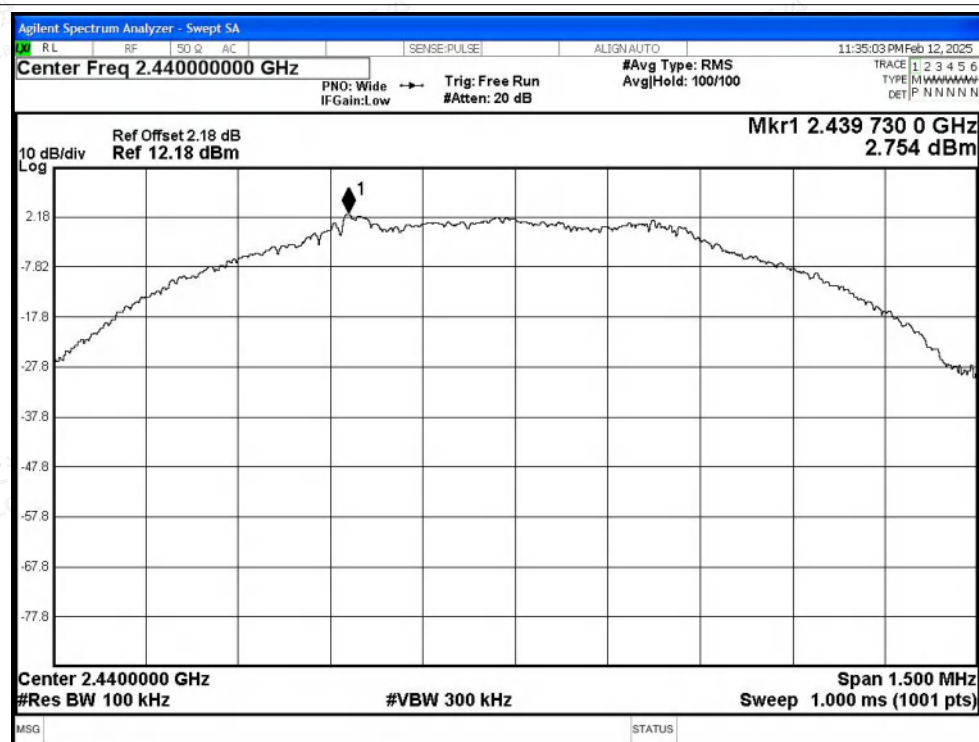
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

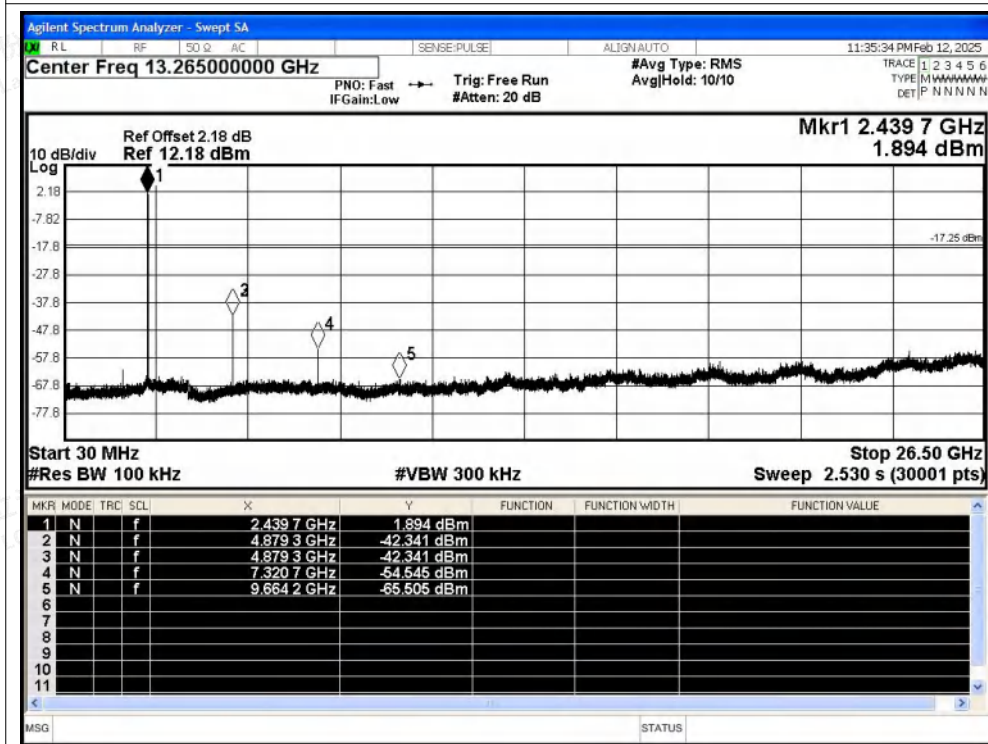
Scan code to check authenticity



Tx. Spurious NVNT BLE 500Kbps 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 500Kbps 2440MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

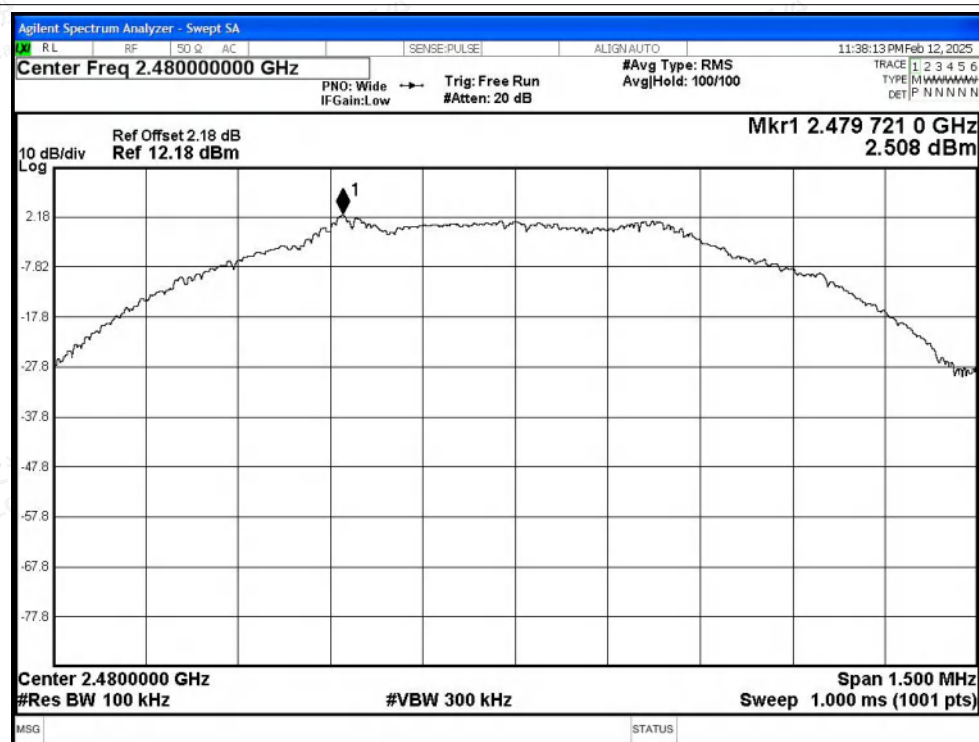
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

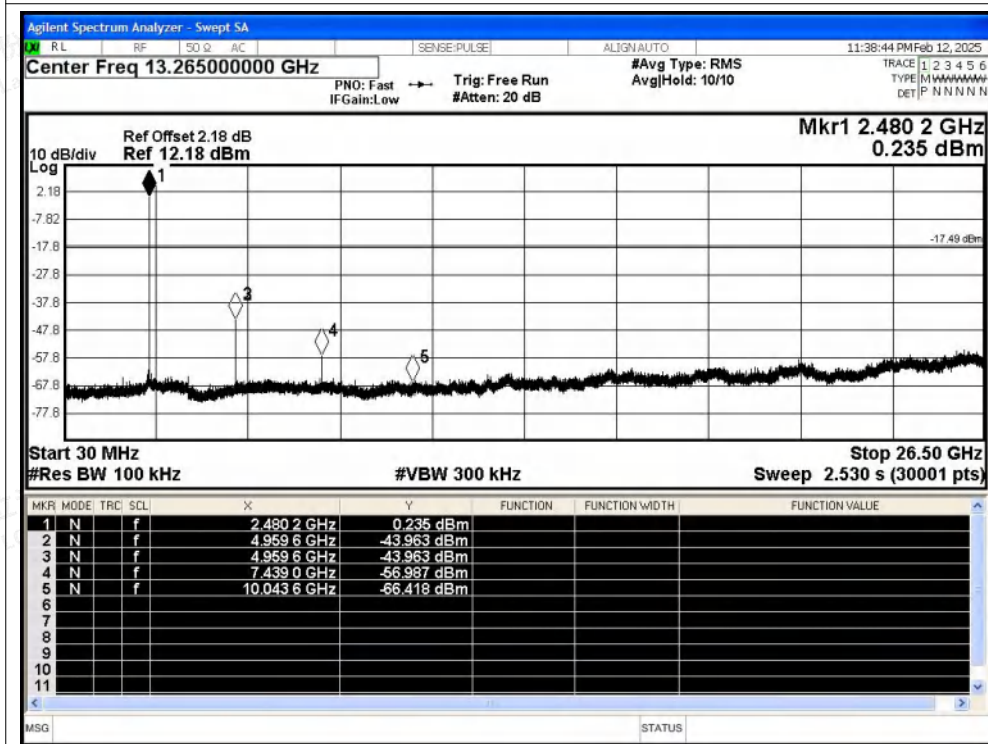
Scan code to check authenticity



Tx. Spurious NVNT BLE 500Kbps 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 500Kbps 2480MHz Ant1 Emission



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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
NVNT	BLE 125Kbps	2402	Ant1	100	0	0
NVNT	BLE 125Kbps	2440	Ant1	100	0	0
NVNT	BLE 125Kbps	2480	Ant1	100	0	0
NVNT	BLE 500Kbps	2402	Ant1	100	0	0
NVNT	BLE 500Kbps	2440	Ant1	100	0	0
NVNT	BLE 500Kbps	2480	Ant1	100	0	0

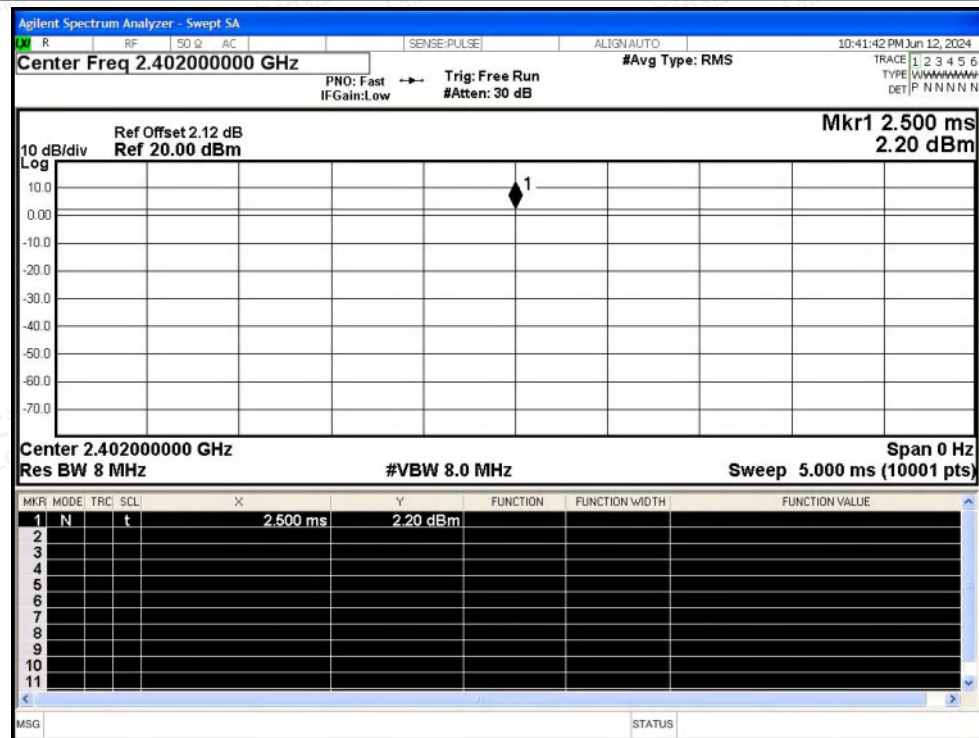


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Scan code to check authenticity

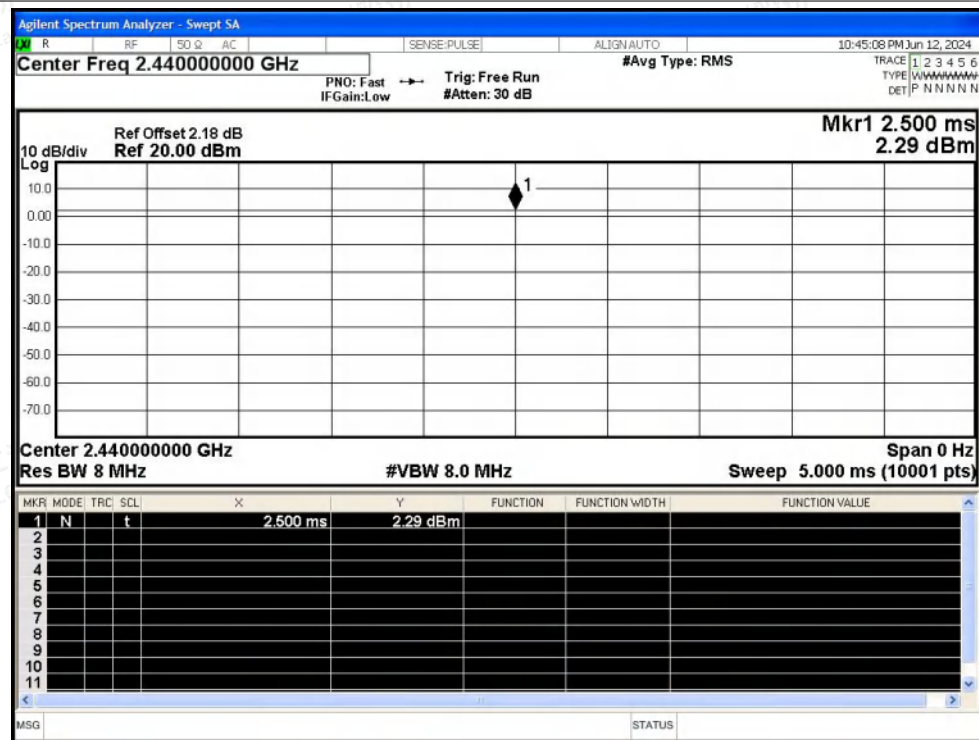


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



Duty Cycle NVNT BLE 1M 2440MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

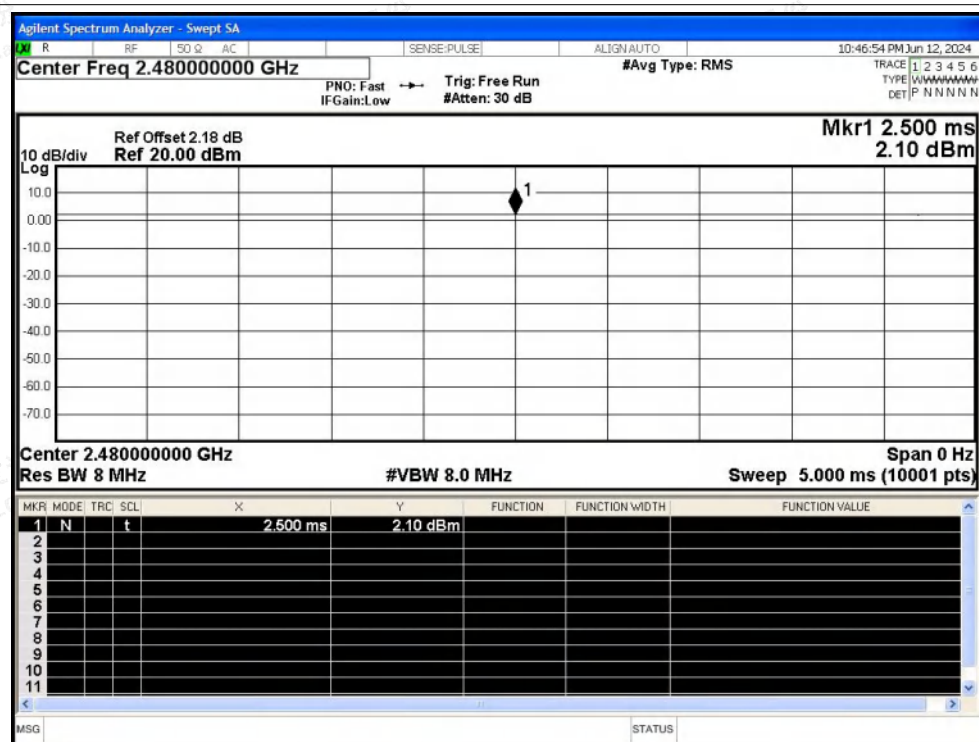
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

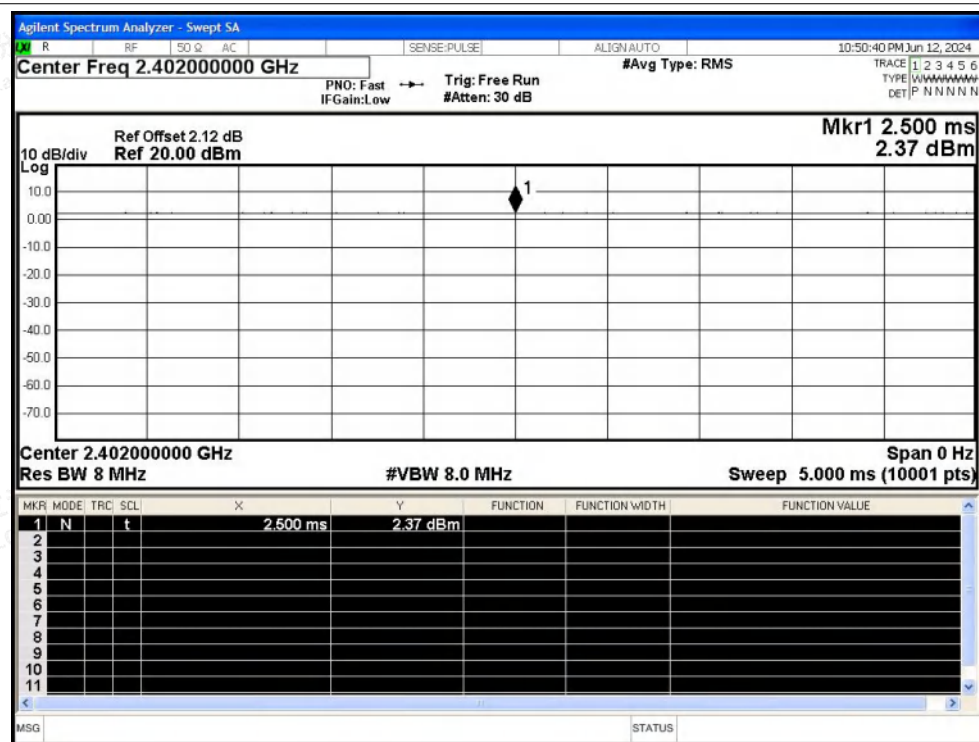
Scan code to check authenticity



Duty Cycle NVNT BLE 1M 2480MHz Ant1



Duty Cycle NVNT BLE 2M 2402MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

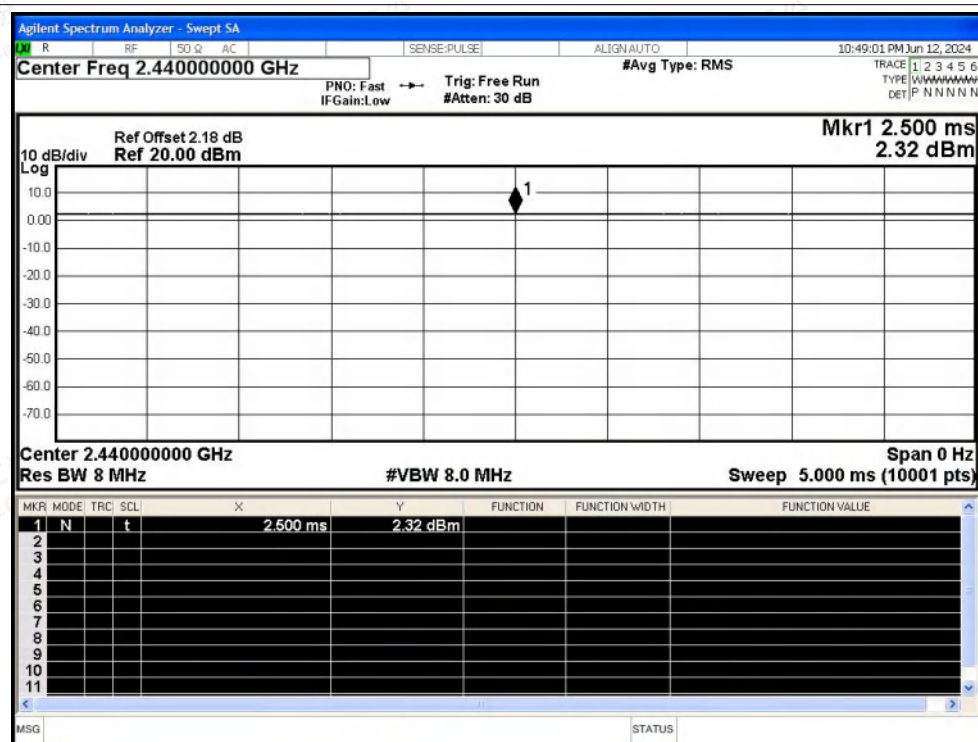
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

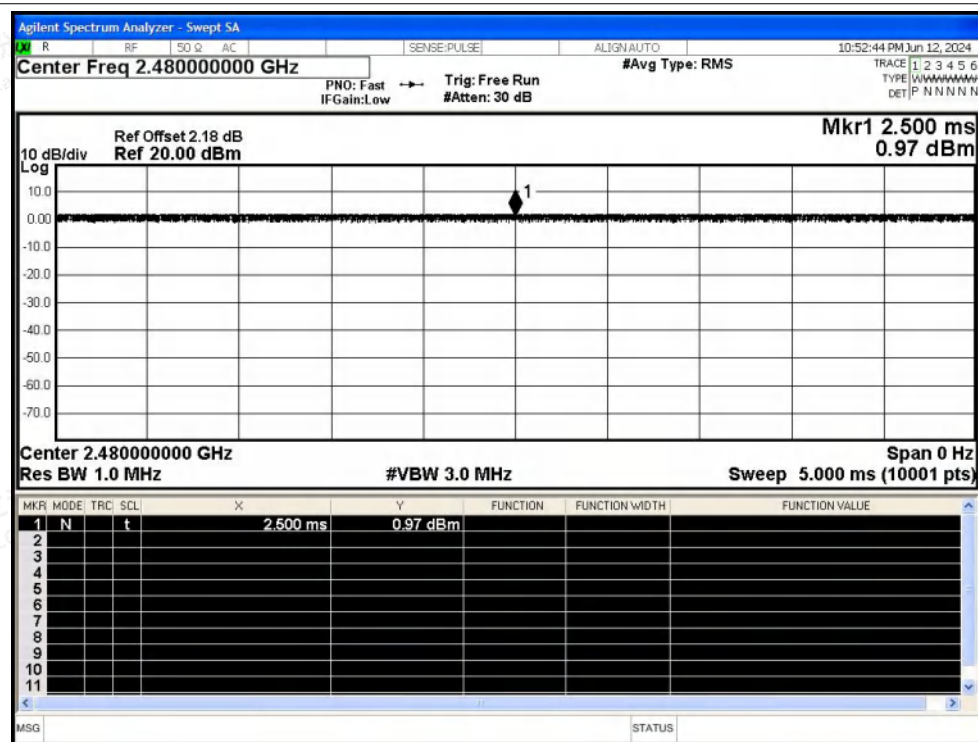
Scan code to check authenticity



Duty Cycle NVNT BLE 2M 2440MHz Ant1



Duty Cycle NVNT BLE 2M 2480MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

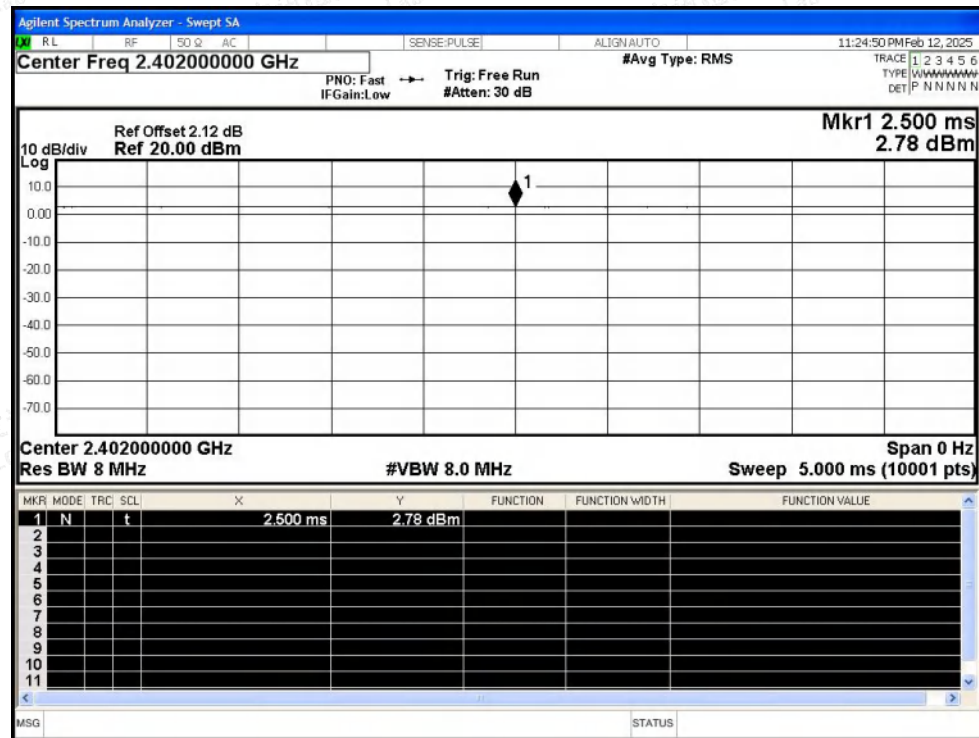
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

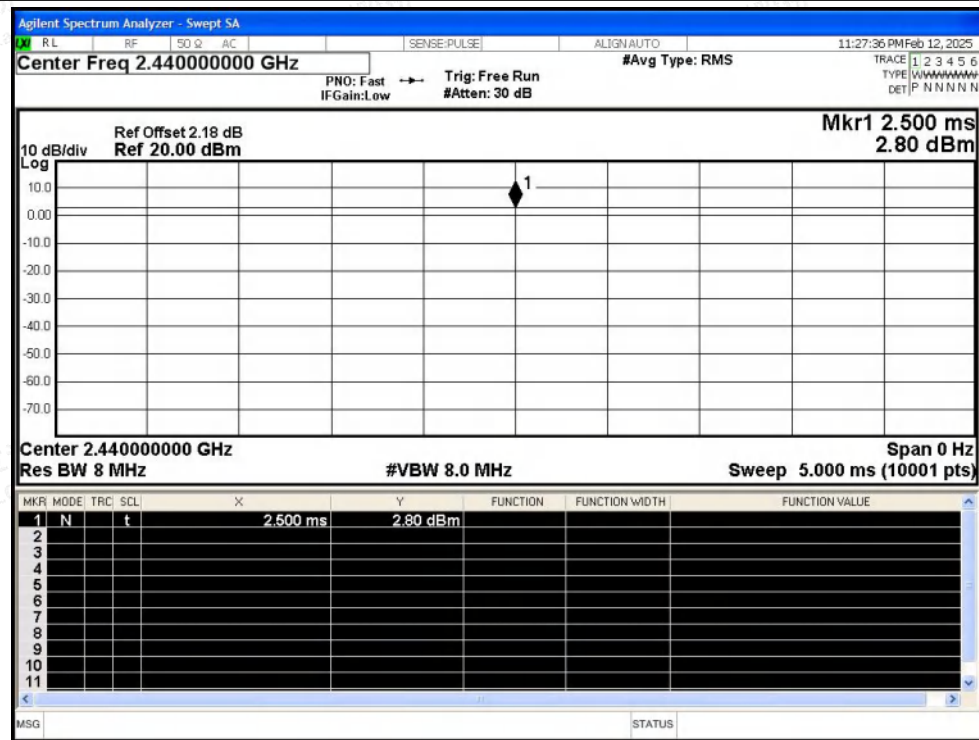
Scan code to check authenticity



Duty Cycle NVNT BLE 125Kbps 2402MHz Ant1



Duty Cycle NVNT BLE 125Kbps 2440MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

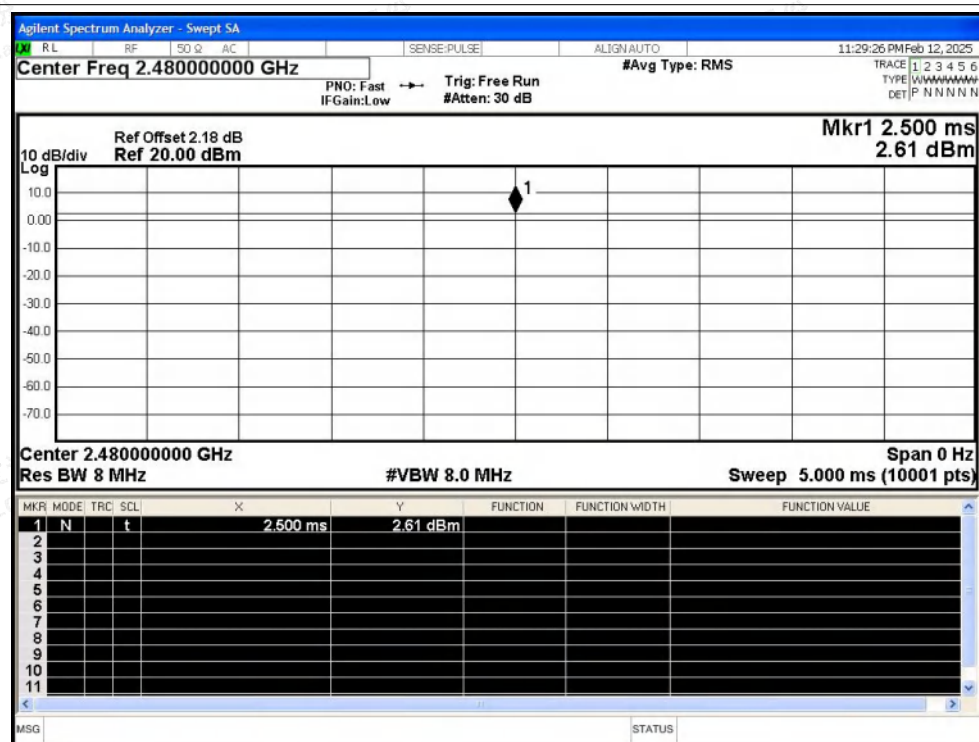
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

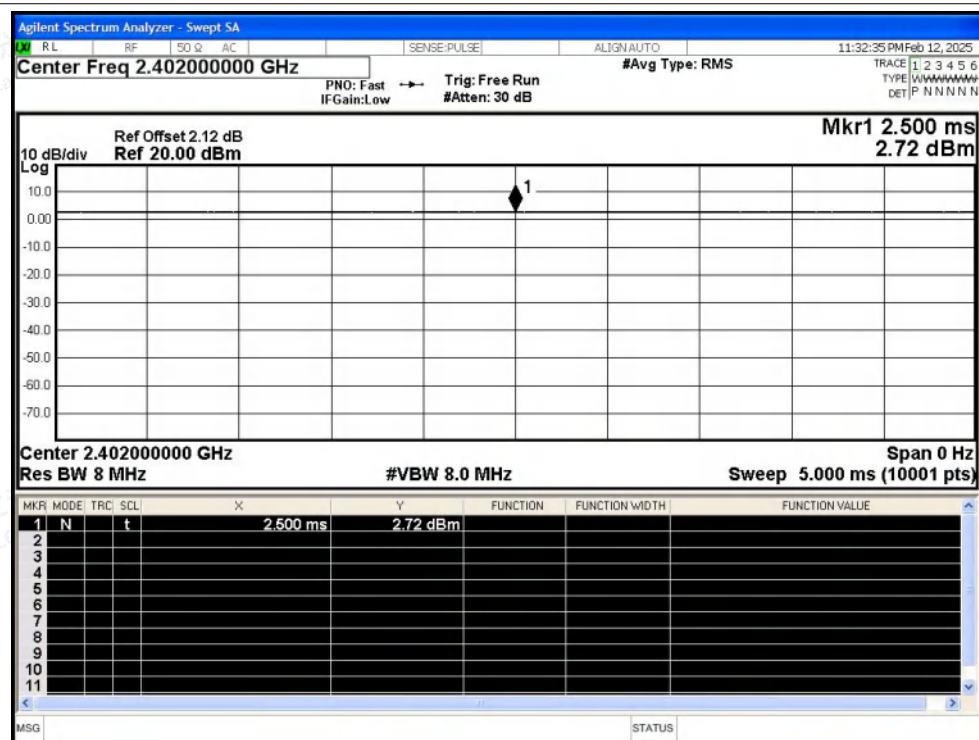
Scan code to check authenticity



Duty Cycle NVNT BLE 125Kbps 2480MHz Ant1



Duty Cycle NVNT BLE 500Kbps 2402MHz Ant1



Duty Cycle NVNT BLE 500Kbps 2440MHz Ant1

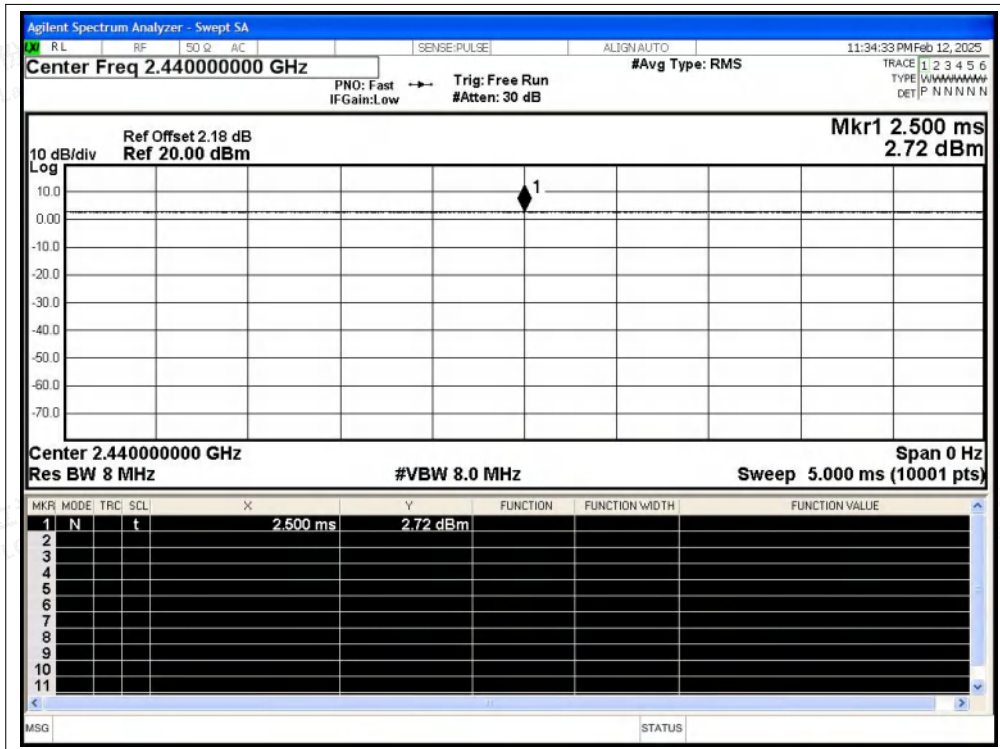


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Scan code to check authenticity

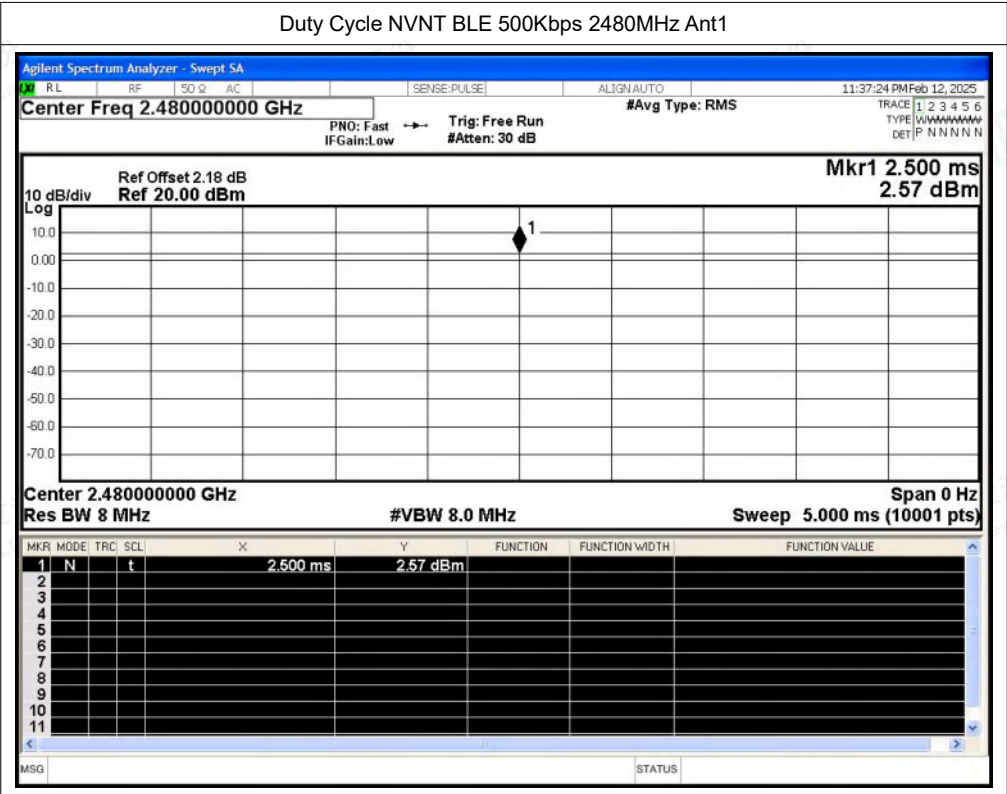


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Scan code to check authenticity





A.7 Restrict Band

Worst Case:

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Max antenna Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-50.39	3.0	-	47.87	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.26	3.0	0	40.00	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2349.072	-47.03	3.0	-	51.23	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2388.528	-57.49	3.0	0	40.77	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-50.4	3.0	-	47.86	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-57.94	3.0	0	40.32	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-48.01	3.0	-	50.25	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-56.19	3.0	0	42.07	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2484.256	-45.94	3.0	-	52.32	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.584	-55.69	3.0	0	42.57	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-49.55	3.0	-	48.71	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-57.65	3.0	0	40.61	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2310	-50.85	3.0	-	47.41	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2310	-58.5	3.0	0	39.76	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2359.344	-47.19	3.0	-	51.07	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2385.072	-57.21	3.0	0	41.05	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2390	-50.95	3.0	-	47.31	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2390	-58.24	3.0	0	40.02	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-44.43	3.0	-	53.83	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-51.07	3.0	0	47.19	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.656	-43.39	3.0	-	54.87	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.512	-51.07	3.0	0	47.19	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2500	-49.92	3.0	-	48.34	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2500	-57.71	3.0	0	40.55	Average	54	Pass
NVNT	BLE 125Kbps	2402	Ant1	2310	-51.67	3.0	-	46.59	Peak	74	Pass
NVNT	BLE 125Kbps	2402	Ant1	2310	-58.63	3.0	0	39.63	Average	54	Pass
NVNT	BLE 125Kbps	2402	Ant1	2381.904	-47.11	3.0	-	51.15	Peak	74	Pass
NVNT	BLE 125Kbps	2402	Ant1	2388.528	-57.54	3.0	0	40.72	Average	54	Pass
NVNT	BLE 125Kbps	2402	Ant1	2390	-51.5	3.0	-	46.76	Peak	74	Pass
NVNT	BLE 125Kbps	2402	Ant1	2390	-57.94	3.0	0	40.32	Average	54	Pass
NVNT	BLE 125Kbps	2480	Ant1	2483.5	-49.02	3.0	-	49.24	Peak	74	Pass
NVNT	BLE 125Kbps	2480	Ant1	2483.5	-55.82	3.0	0	42.44	Average	54	Pass
NVNT	BLE 125Kbps	2480	Ant1	2487.76	-46.18	3.0	-	52.08	Peak	74	Pass
NVNT	BLE 125Kbps	2480	Ant1	2483.632	-55.72	3.0	0	42.54	Average	54	Pass
NVNT	BLE 125Kbps	2480	Ant1	2500	-49.3	3.0	-	48.96	Peak	74	Pass



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NVNT	BLE 125Kbps	2480	Ant1	2500	-57.78	3.0	0	40.48	Average	54	Pass
NVNT	BLE 500Kbps	2402	Ant1	2310	-50.55	3.0	-	47.71	Peak	74	Pass
NVNT	BLE 500Kbps	2402	Ant1	2310	-58.64	3.0	0	39.62	Average	54	Pass
NVNT	BLE 500Kbps	2402	Ant1	2331.024	-47.64	3.0	-	50.62	Peak	74	Pass
NVNT	BLE 500Kbps	2402	Ant1	2388.528	-57.63	3.0	0	40.63	Average	54	Pass
NVNT	BLE 500Kbps	2402	Ant1	2390	-50.29	3.0	-	47.97	Peak	74	Pass
NVNT	BLE 500Kbps	2402	Ant1	2390	-57.88	3.0	0	40.38	Average	54	Pass
NVNT	BLE 500Kbps	2480	Ant1	2483.5	-47.68	3.0	-	50.58	Peak	74	Pass
NVNT	BLE 500Kbps	2480	Ant1	2483.5	-55.97	3.0	0	42.29	Average	54	Pass
NVNT	BLE 500Kbps	2480	Ant1	2483.536	-45.95	3.0	-	52.31	Peak	74	Pass
NVNT	BLE 500Kbps	2480	Ant1	2483.512	-55.97	3.0	0	42.29	Average	54	Pass
NVNT	BLE 500Kbps	2480	Ant1	2500	-49.34	3.0	-	48.92	Peak	74	Pass
NVNT	BLE 500Kbps	2480	Ant1	2500	-57.44	3.0	0	40.82	Average	54	Pass

Note: For restrict band, only max antenna gain recorded in this report

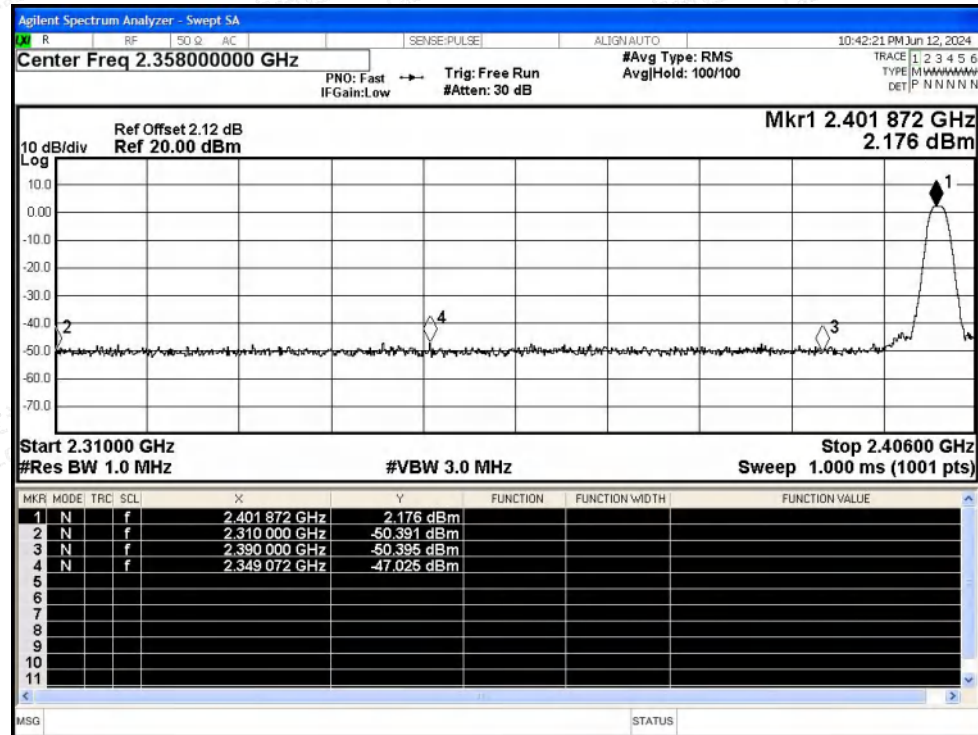


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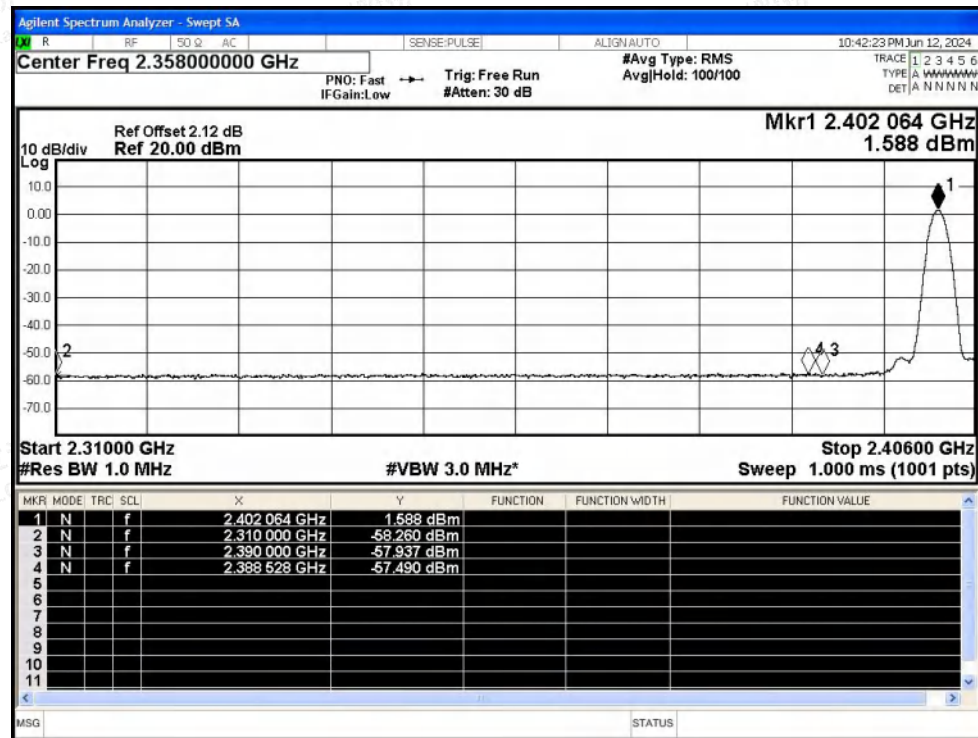


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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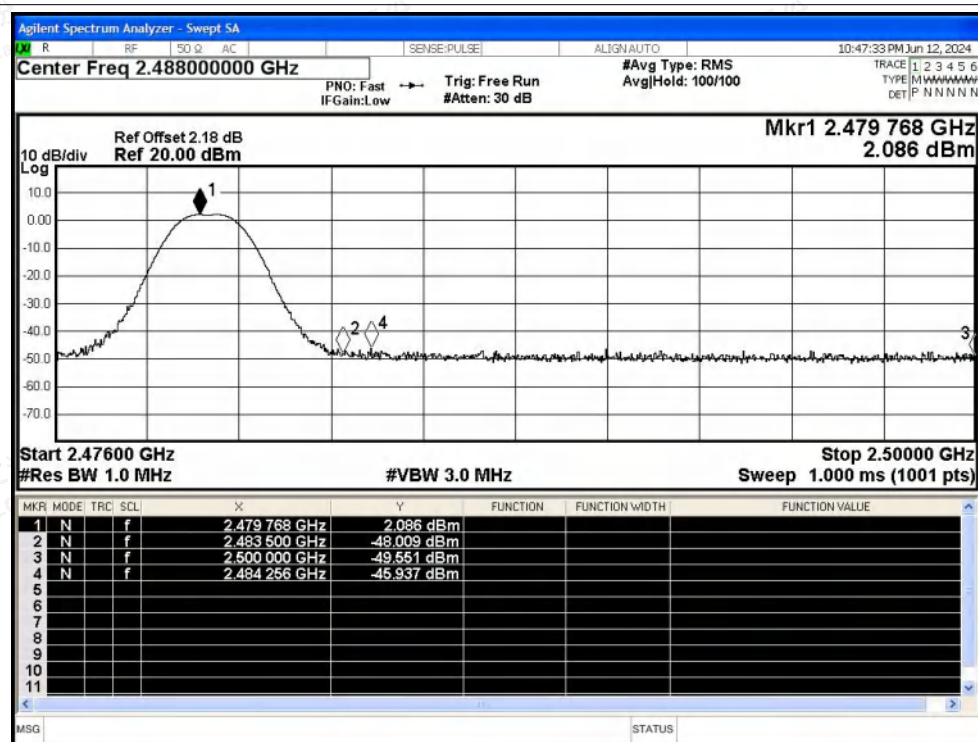
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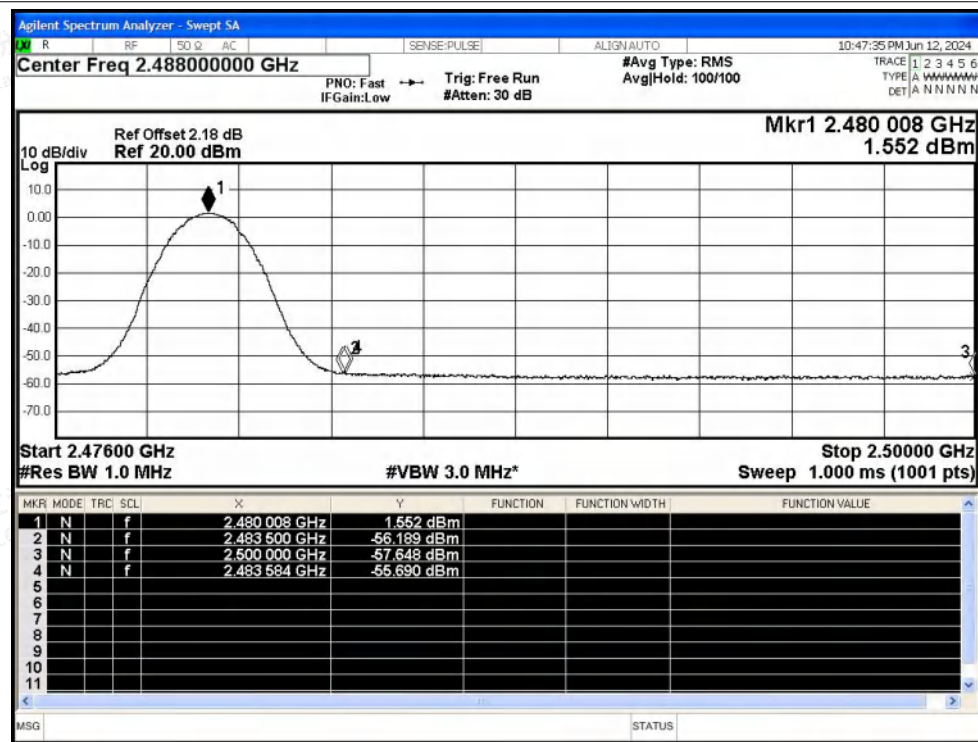
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

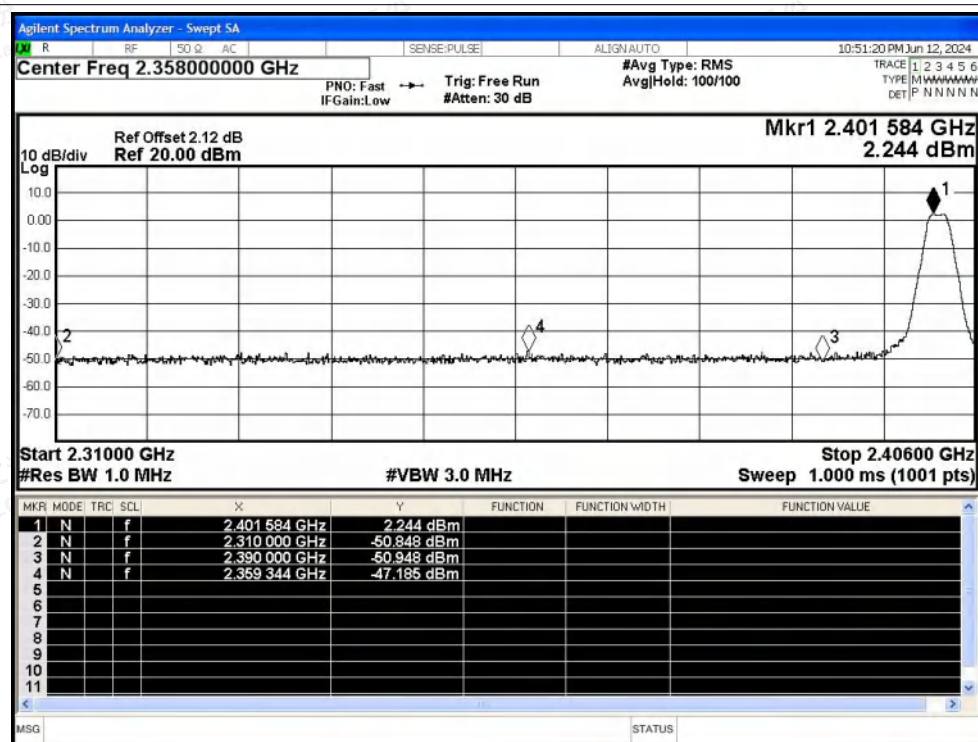
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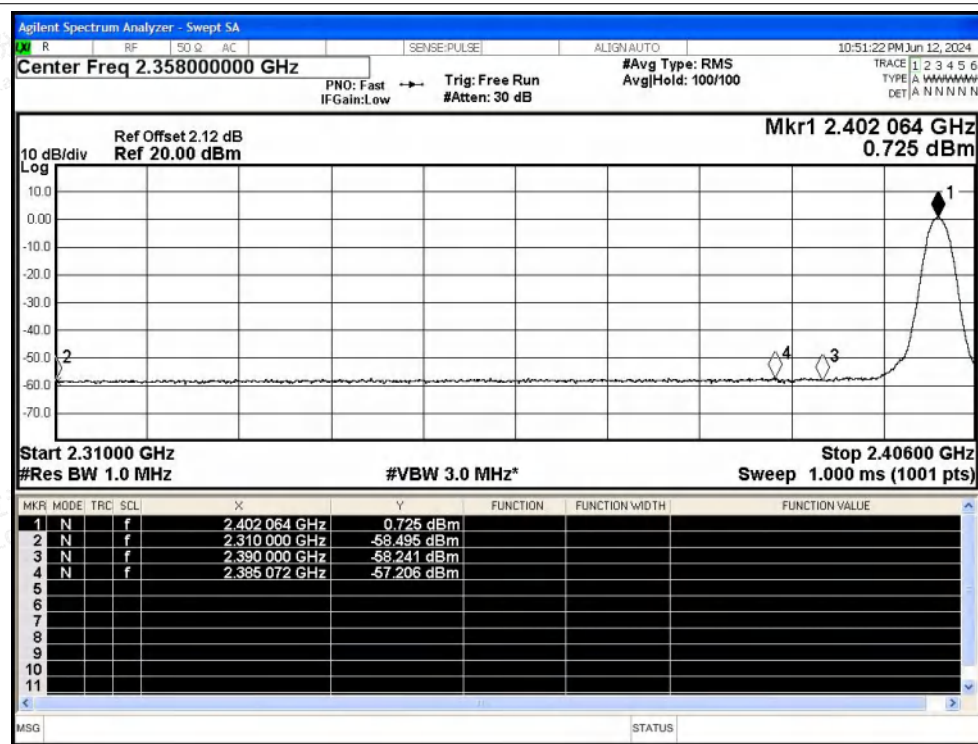
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Restrict Band NVNT BLE 2M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2402MHz Ant1 Average



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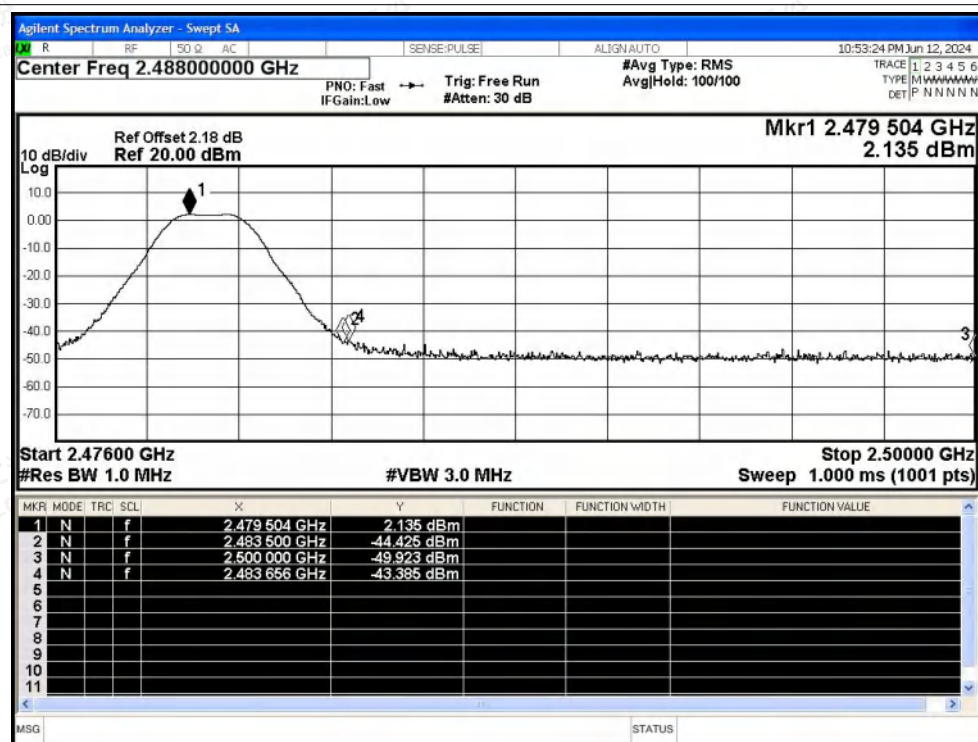
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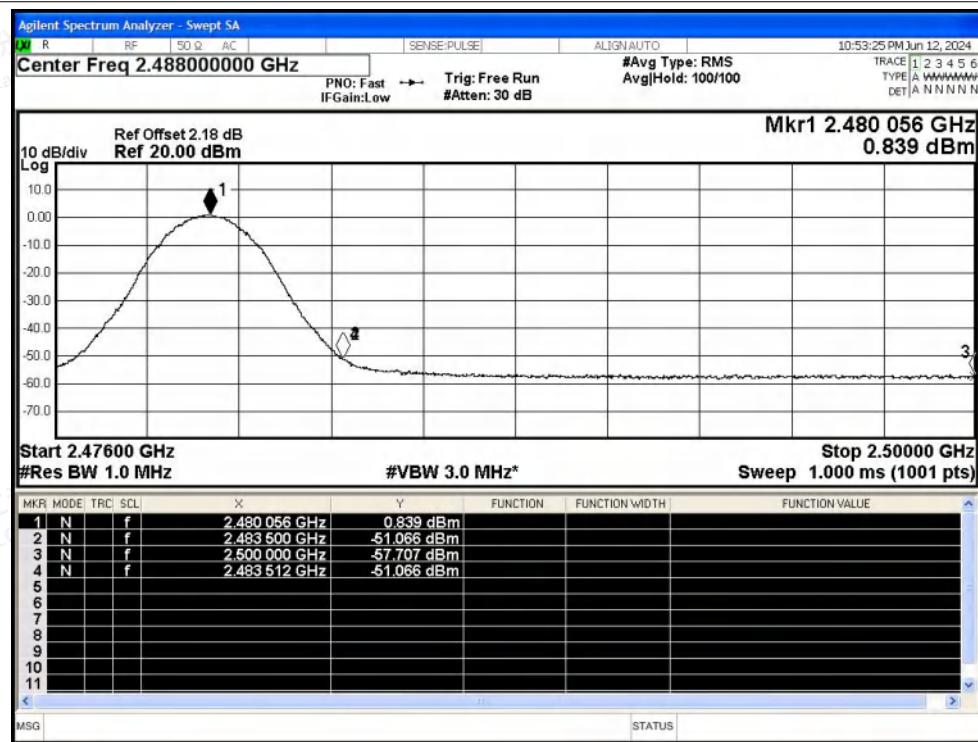
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Restrict Band NVNT BLE 2M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2480MHz Ant1 Average



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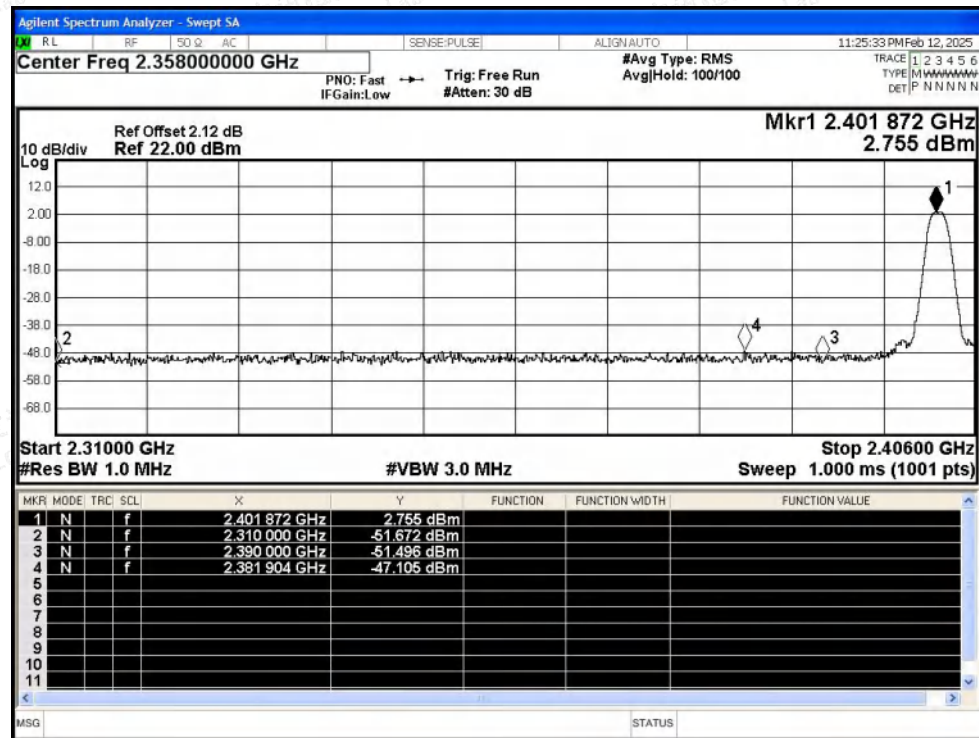
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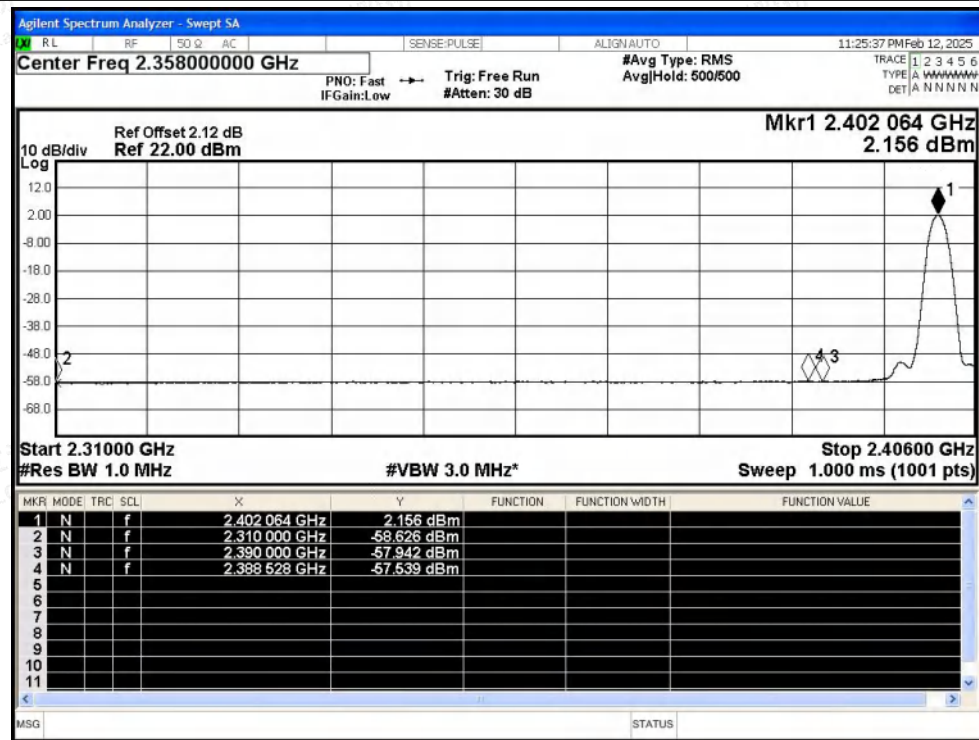
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Restrict Band NVNT BLE 125Kbps 2402MHz Ant1 Peak



Restrict Band NVNT BLE 125Kbps 2402MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

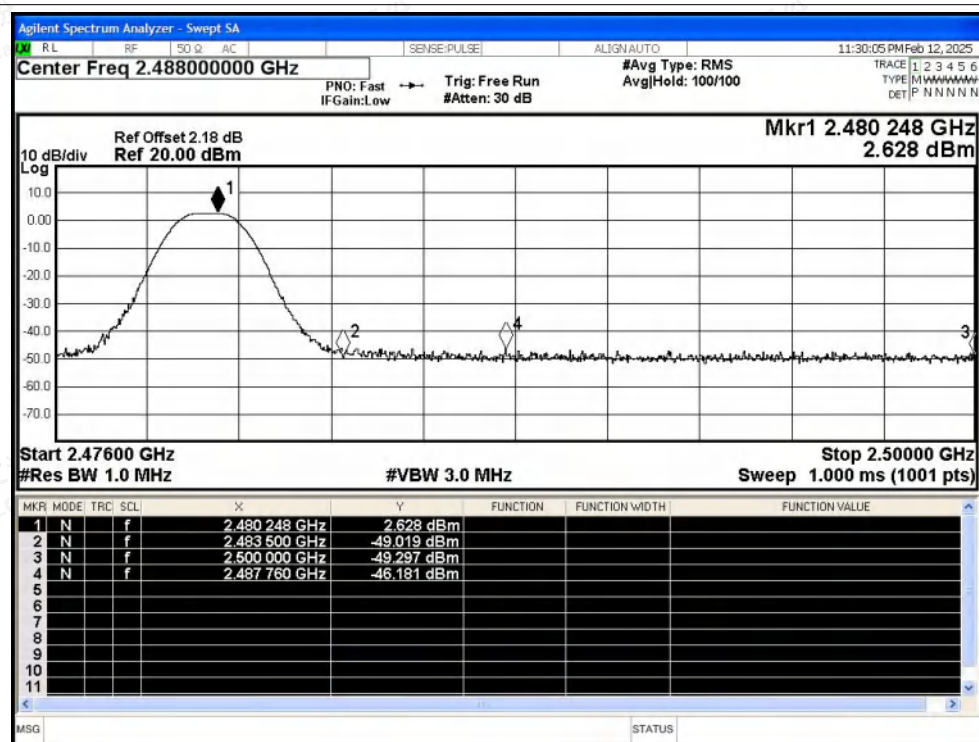
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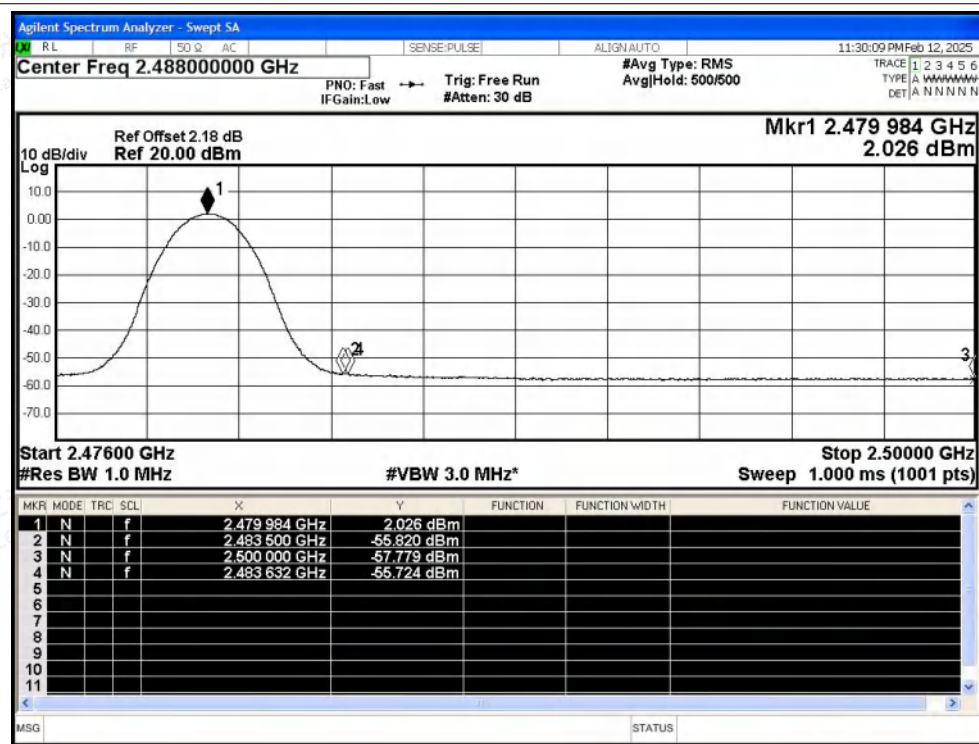
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Restrict Band NVNT BLE 125Kbps 2480MHz Ant1 Peak



Restrict Band NVNT BLE 125Kbps 2480MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

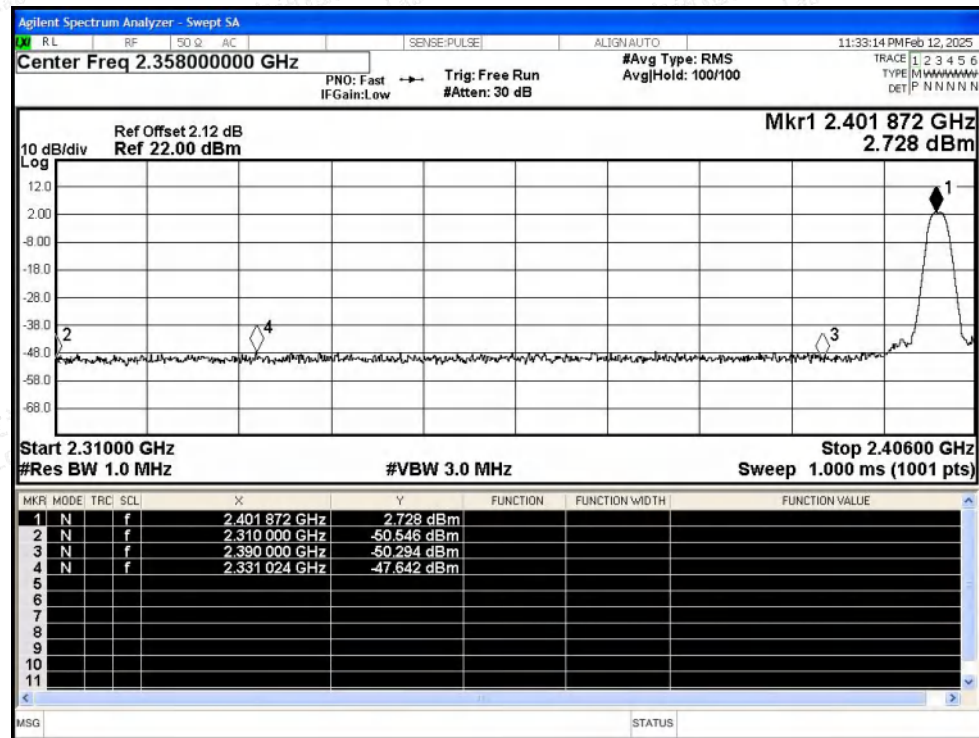
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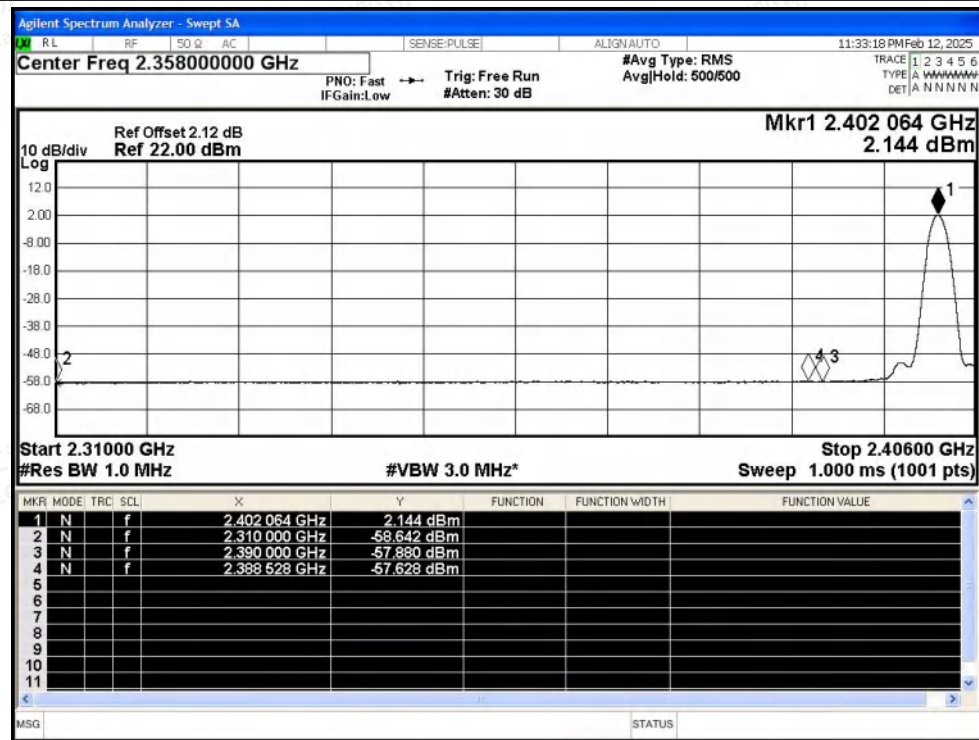
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Restrict Band NVNT BLE 500Kbps 2402MHz Ant1 Peak



Restrict Band NVNT BLE 500Kbps 2402MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

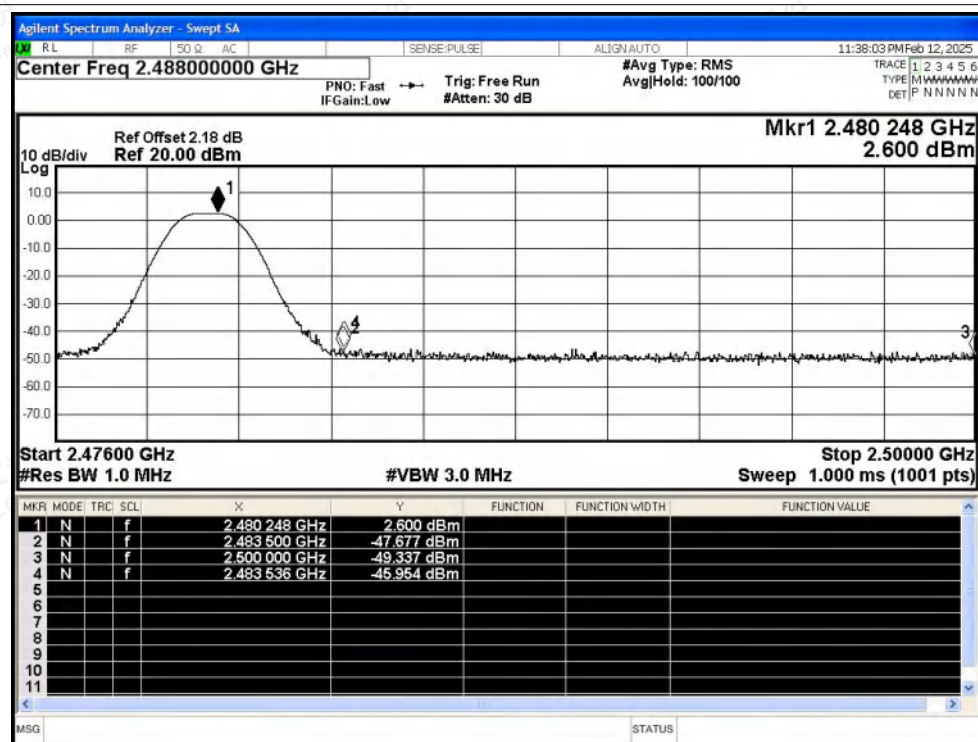
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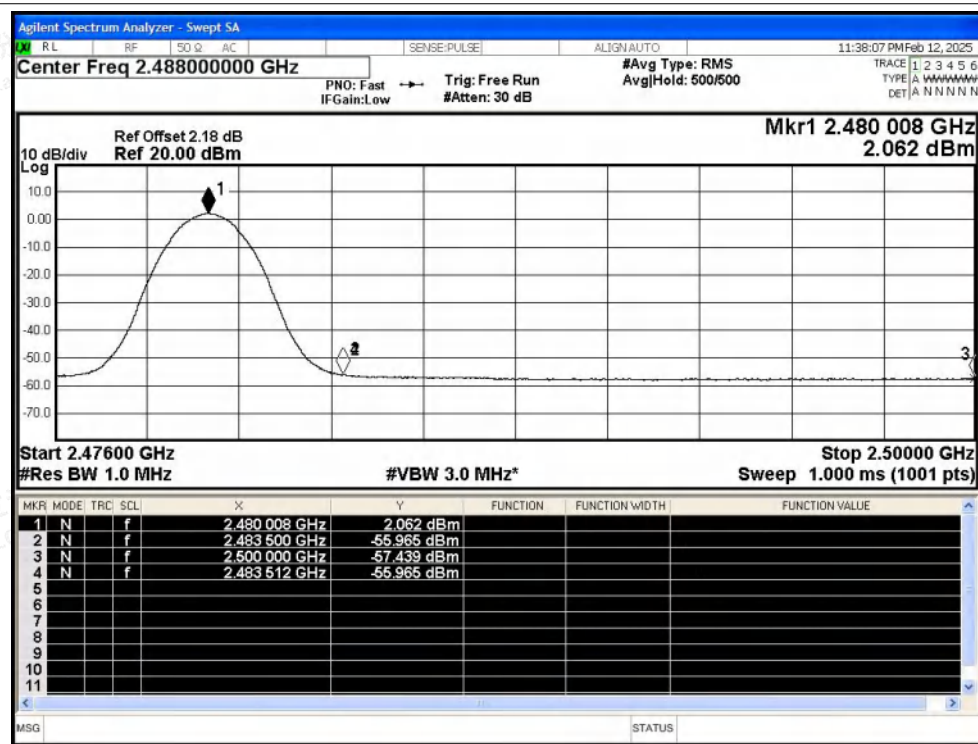
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Restrict Band NVNT BLE 500Kbps 2480MHz Ant1 Peak



Restrict Band NVNT BLE 500Kbps 2480MHz Ant1 Average



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