



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Bluetooth Headset

Test Model: A2

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Li huan





B.1 -6dB Bandwidth

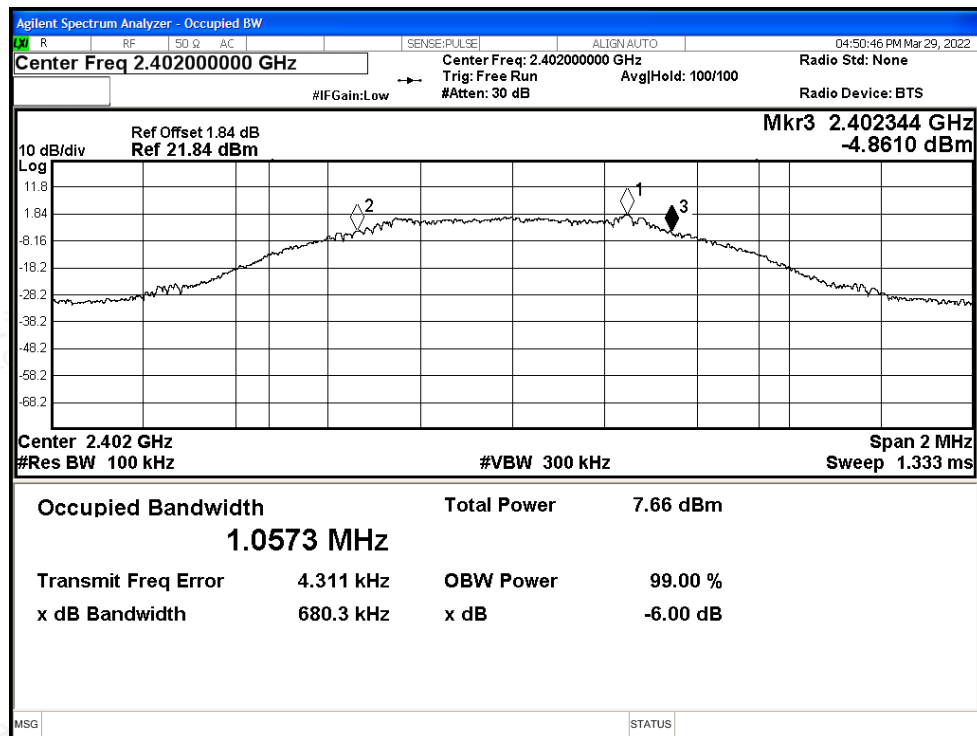
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.68	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.675	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.691	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.021	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.162	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.219	0.5	Pass



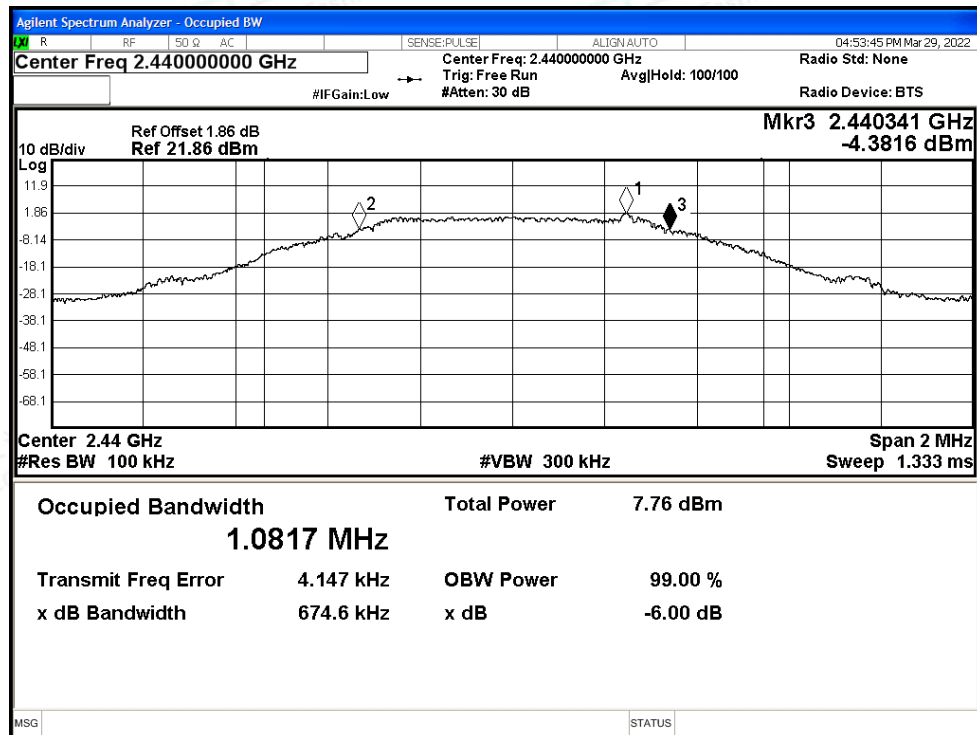


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

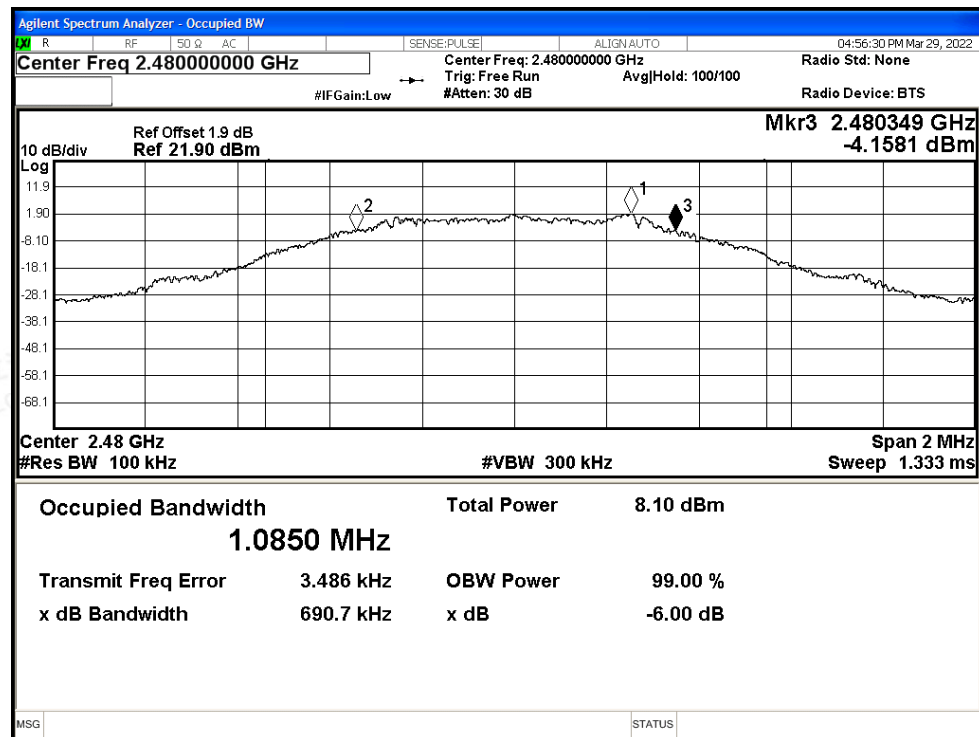
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

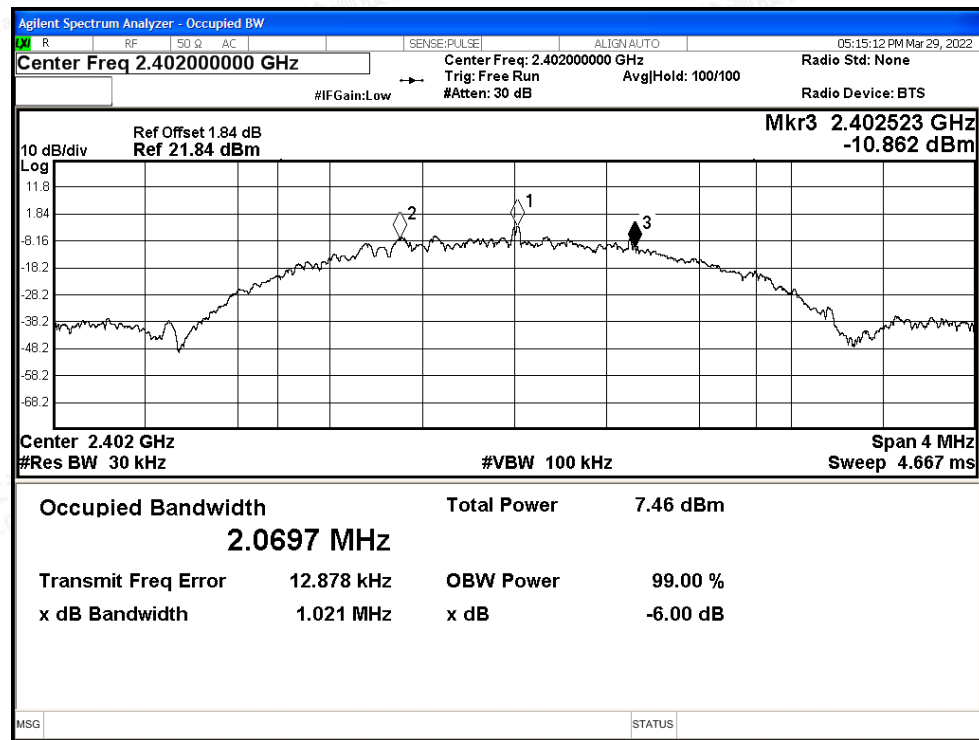
Scan code to check authenticity



-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



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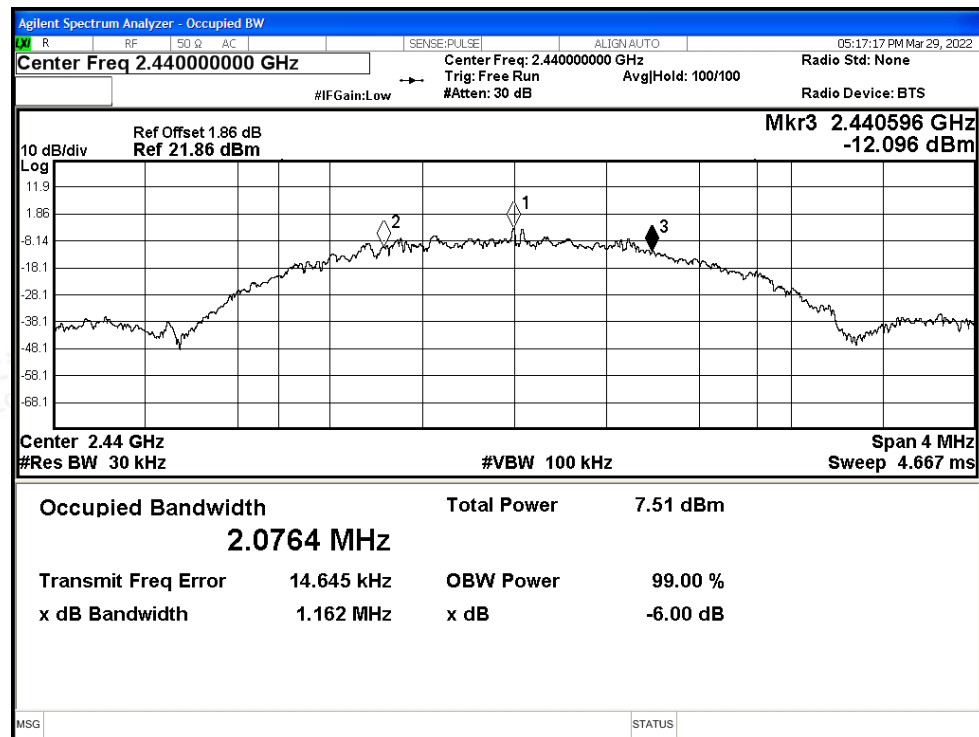
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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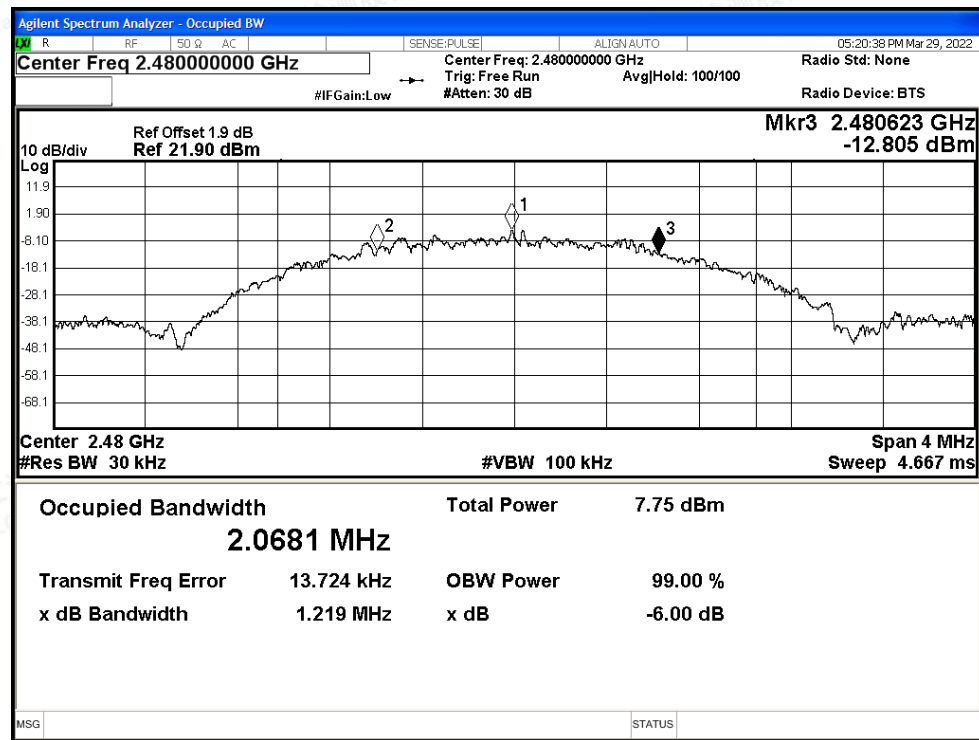
Scan code to check authenticity



-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1



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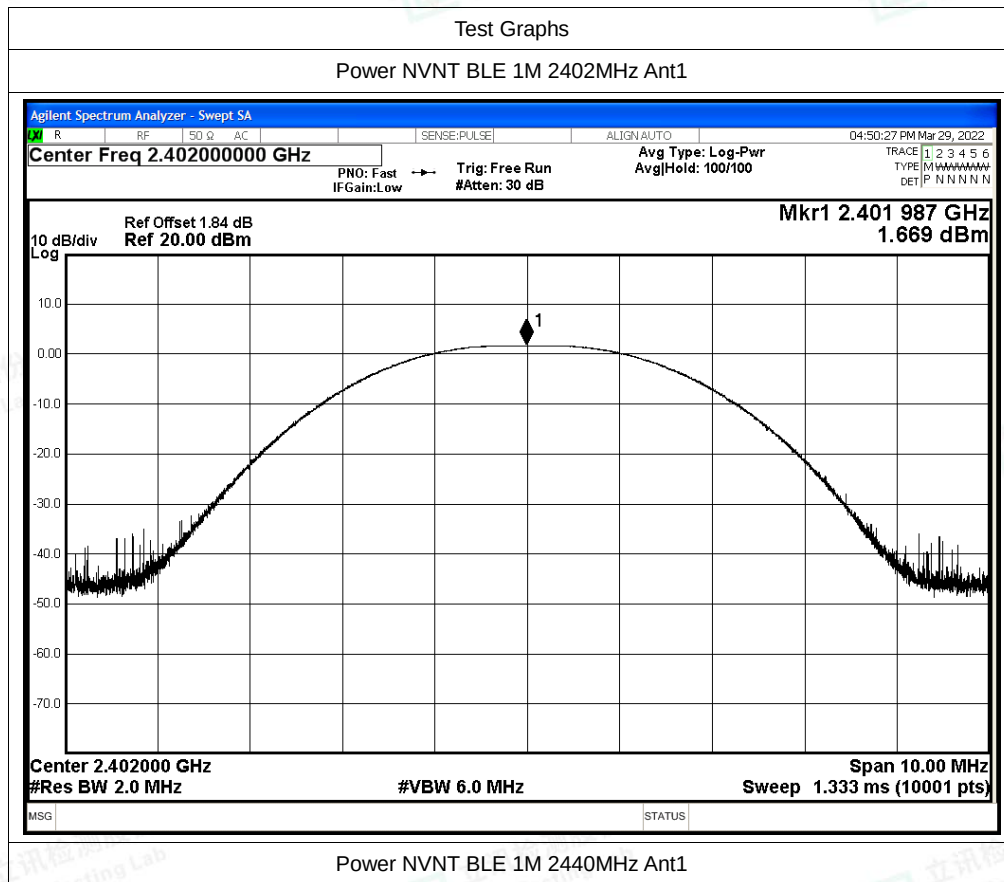
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B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	1.67	0	1.67	30	Pass
NVNT	BLE 1M	2440	Ant1	1.81	0	1.81	30	Pass
NVNT	BLE 1M	2480	Ant1	1.99	0	1.99	30	Pass
NVNT	BLE 2M	2402	Ant1	1.79	0	1.79	30	Pass
NVNT	BLE 2M	2440	Ant1	1.74	0	1.74	30	Pass
NVNT	BLE 2M	2480	Ant1	1.9	0	1.9	30	Pass

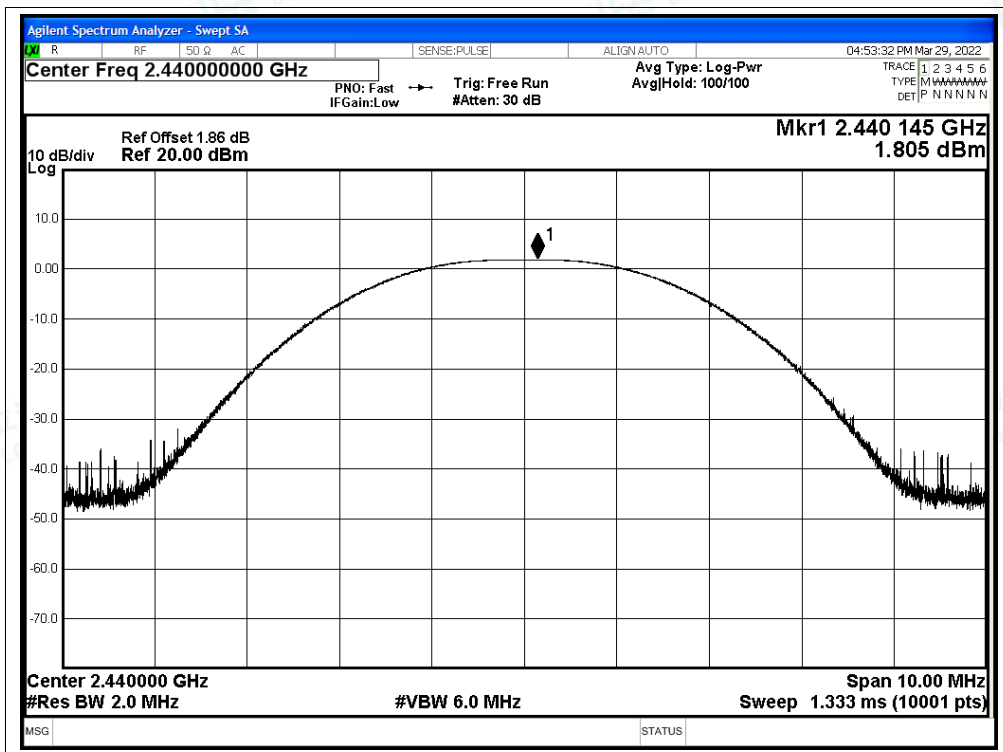


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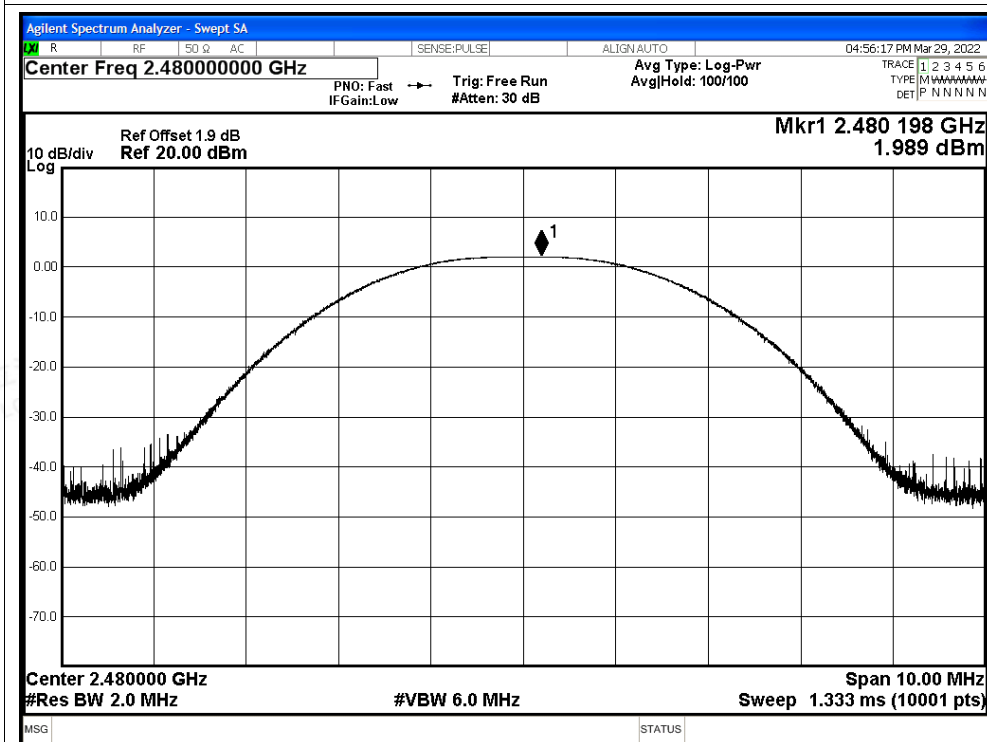
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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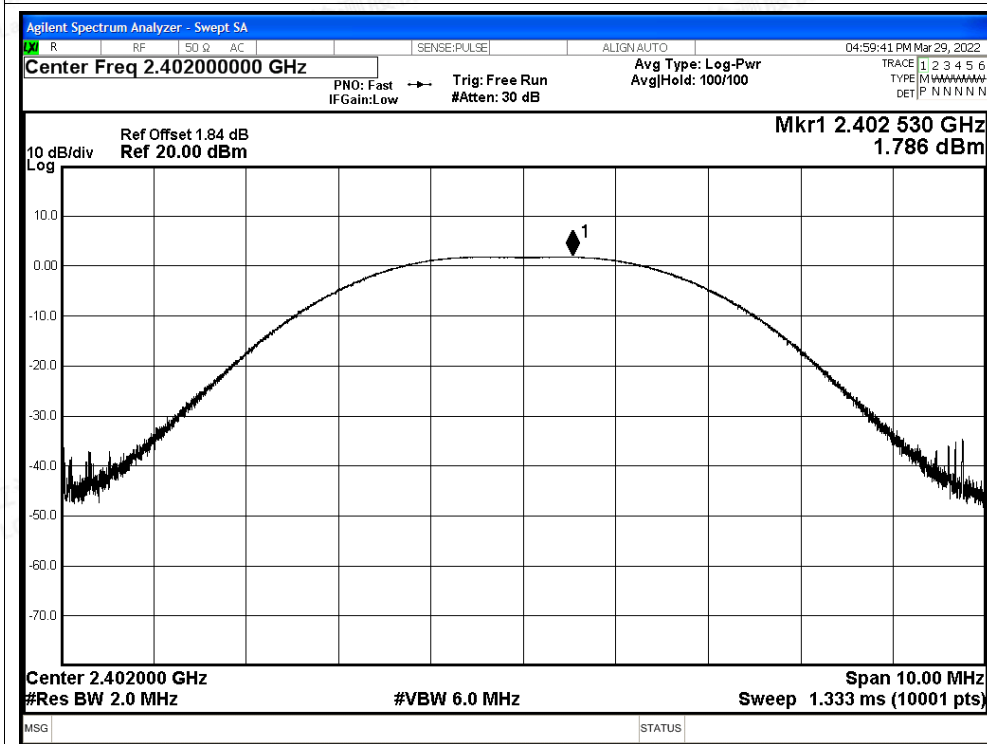
Scan code to check authenticity



Power NVNT BLE 1M 2480MHz Ant1



Power NVNT BLE 2M 2402MHz Ant1



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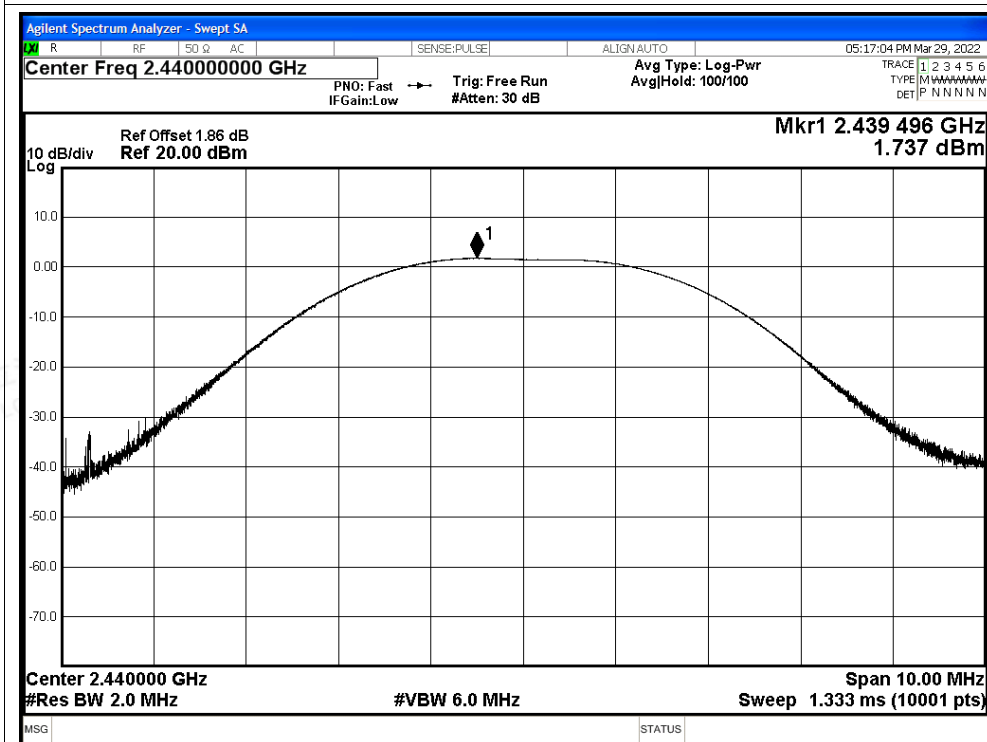
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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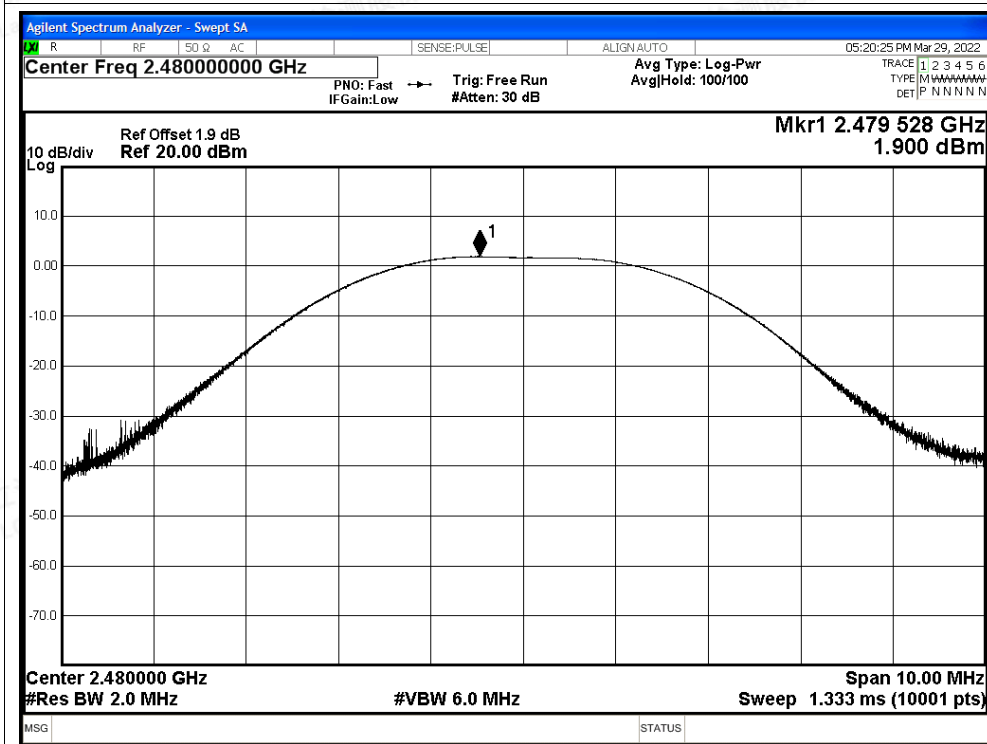
Scan code to check authenticity



Power NVNT BLE 2M 2440MHz Ant1



Power NVNT BLE 2M 2480MHz Ant1



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B.3 Maximum Power Spectral Density Level

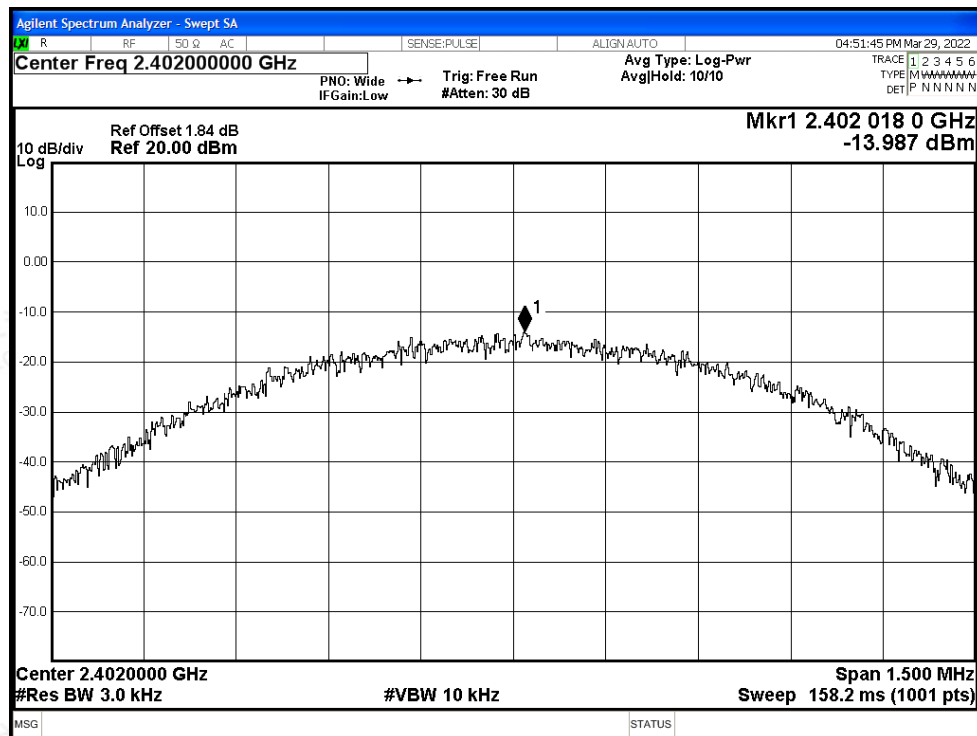
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-13.99	0	-13.99	8	Pass
NVNT	BLE 1M	2440	Ant1	-14.53	0	-14.53	8	Pass
NVNT	BLE 1M	2480	Ant1	-13.77	0	-13.77	8	Pass
NVNT	BLE 2M	2402	Ant1	-17.39	0	-17.39	8	Pass
NVNT	BLE 2M	2440	Ant1	-17.11	0	-17.11	8	Pass
NVNT	BLE 2M	2480	Ant1	-16.63	0	-16.63	8	Pass



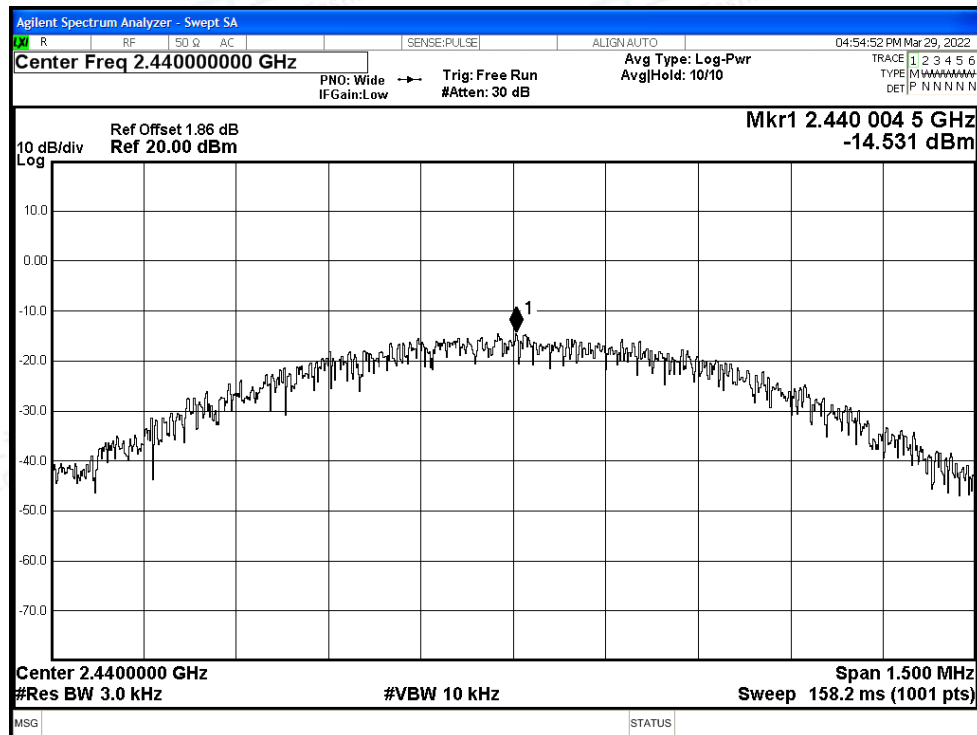


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

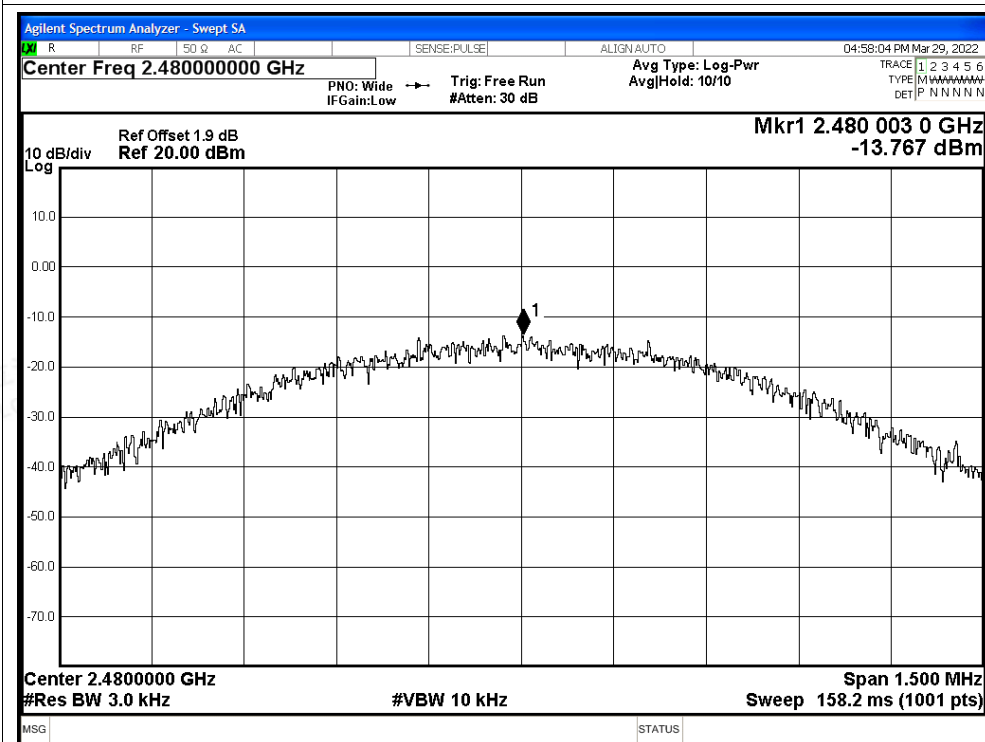
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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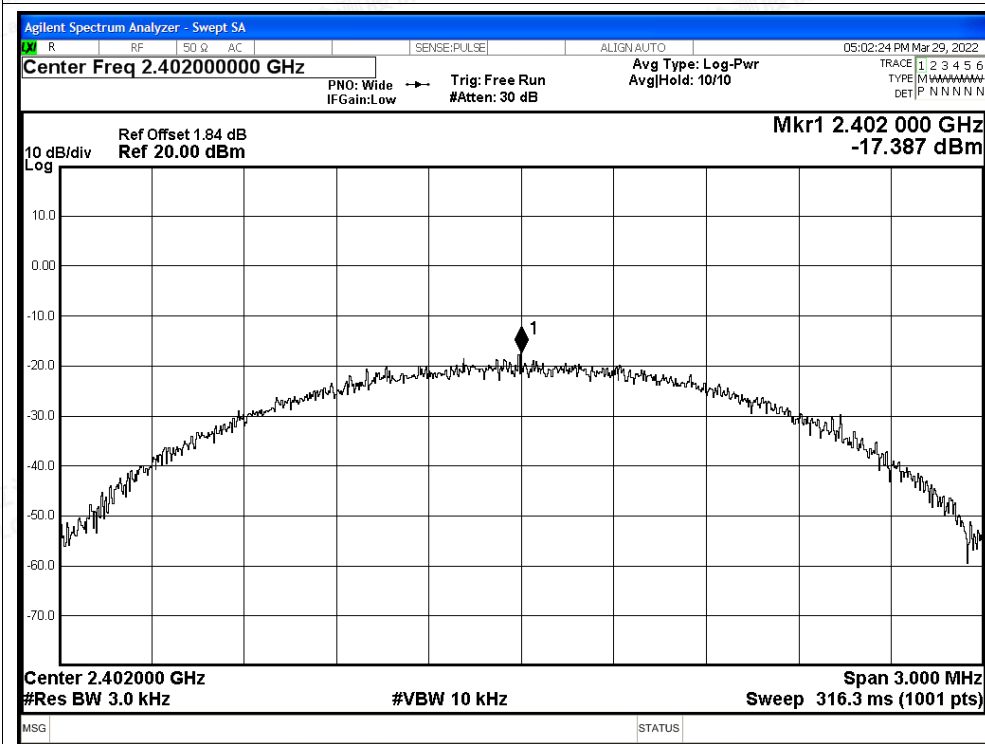
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PSD NVNT BLE 1M 2480MHz Ant1



PSD NVNT BLE 2M 2402MHz Ant1



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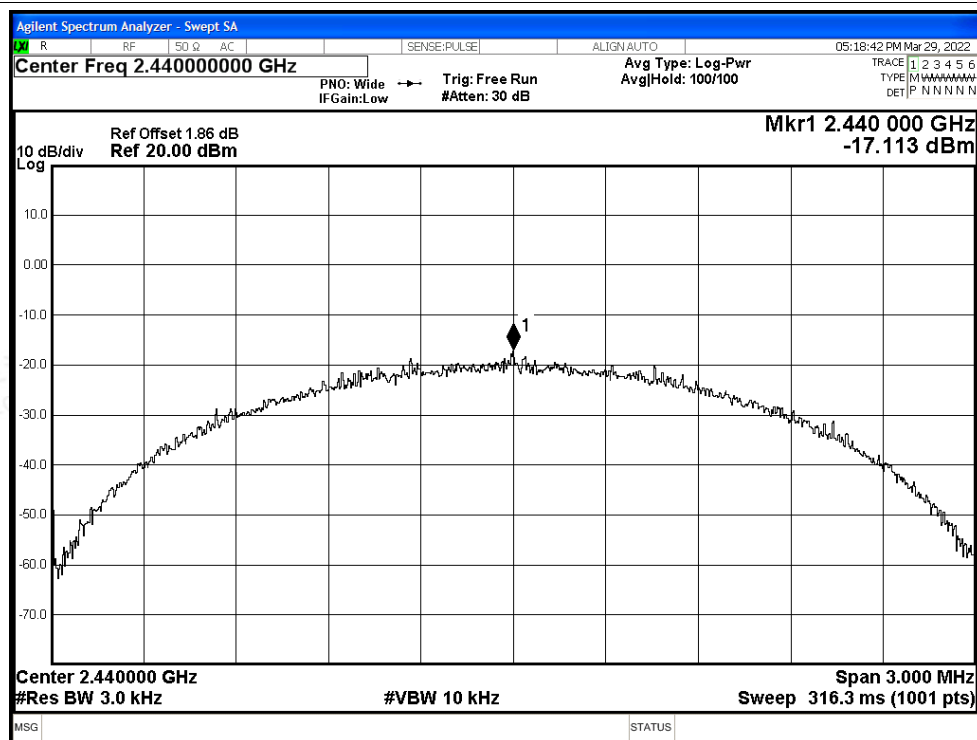
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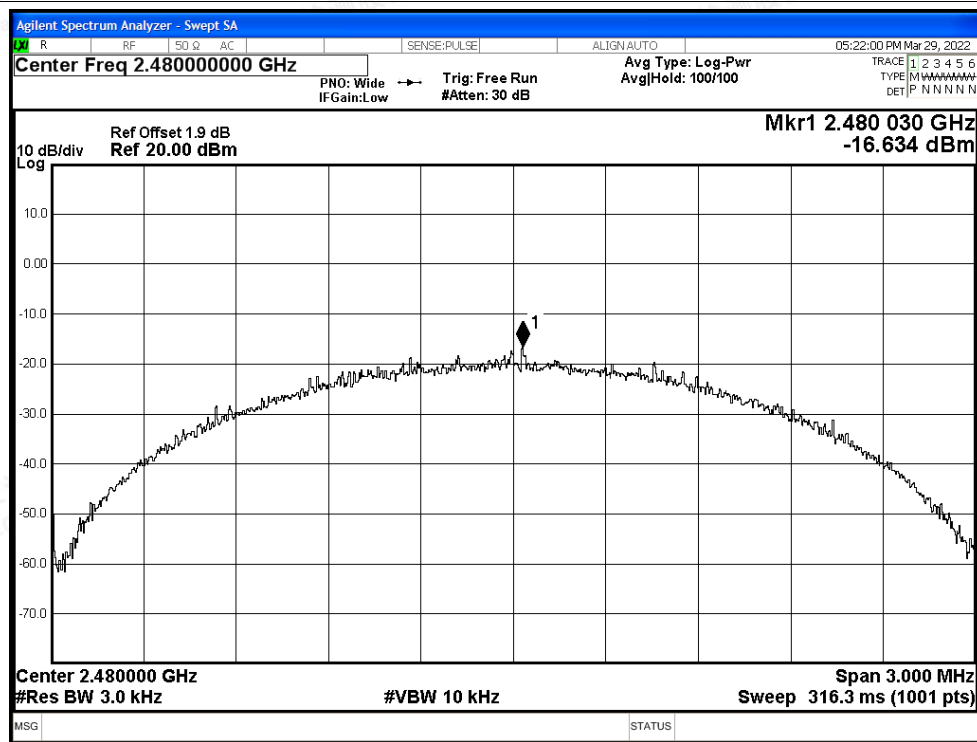
Scan code to check authenticity



PSD NVNT BLE 2M 2440MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1



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B.4 Band Edge

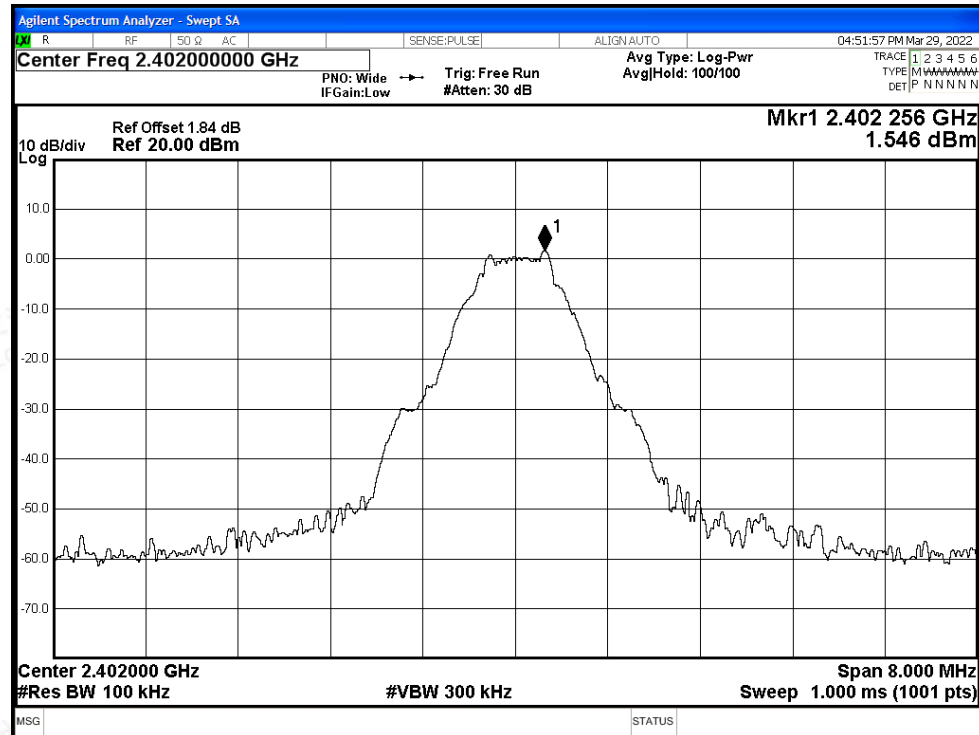
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-52.99	-20	Pass
NVNT	BLE 1M	2480	Ant1	-52.04	-20	Pass
NVNT	BLE 2M	2402	Ant1	-33.99	-20	Pass
NVNT	BLE 2M	2480	Ant1	-44.15	-20	Pass



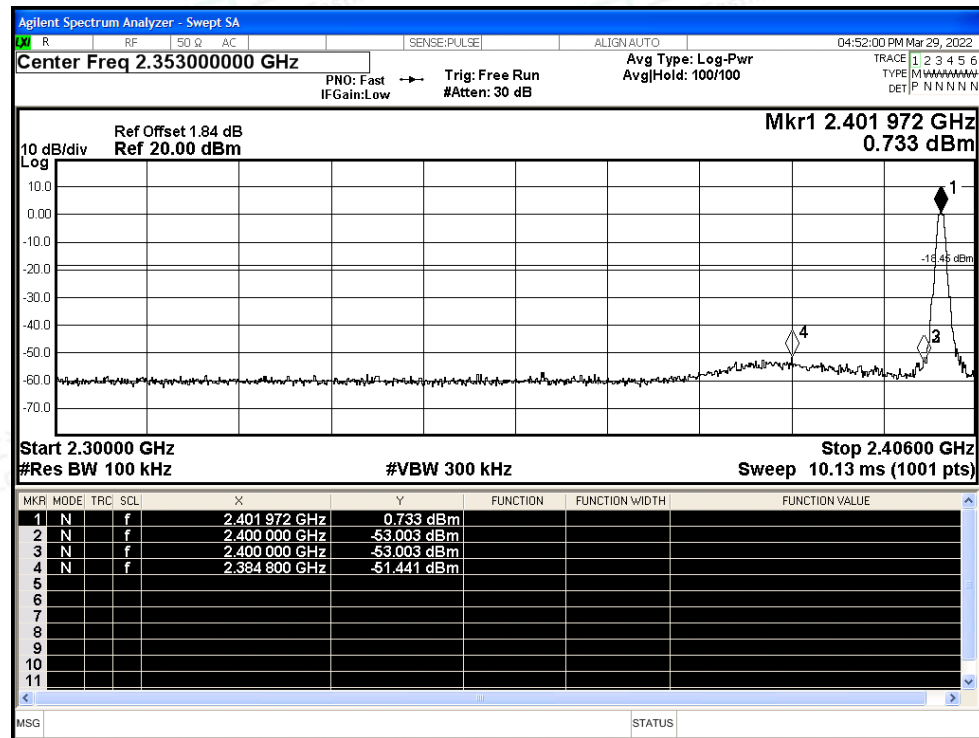


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



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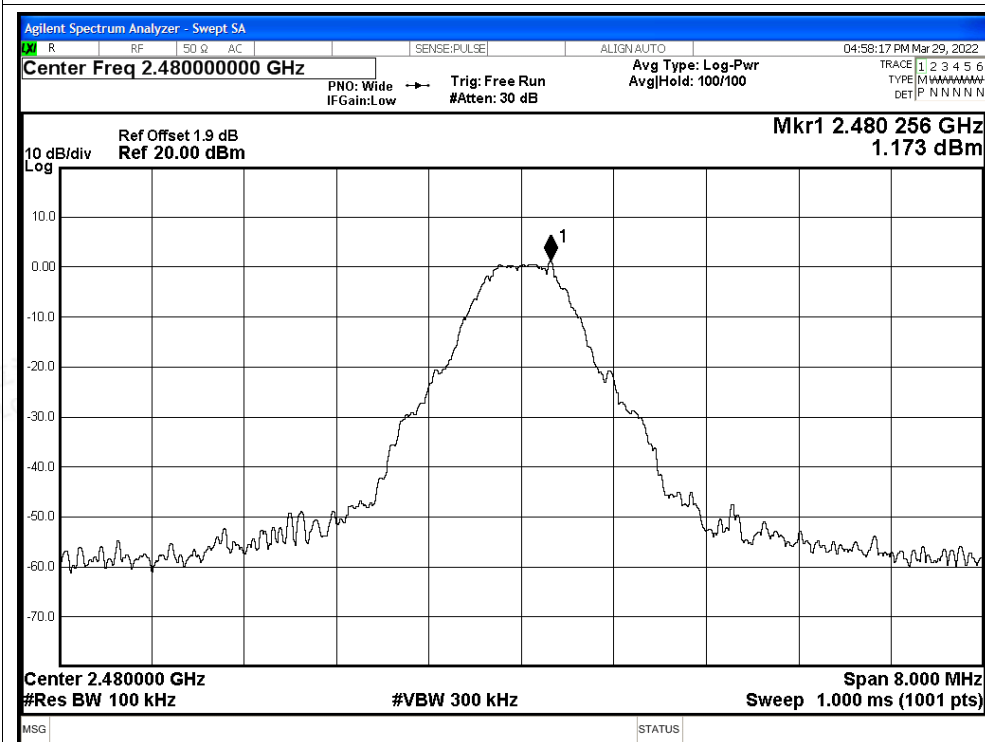
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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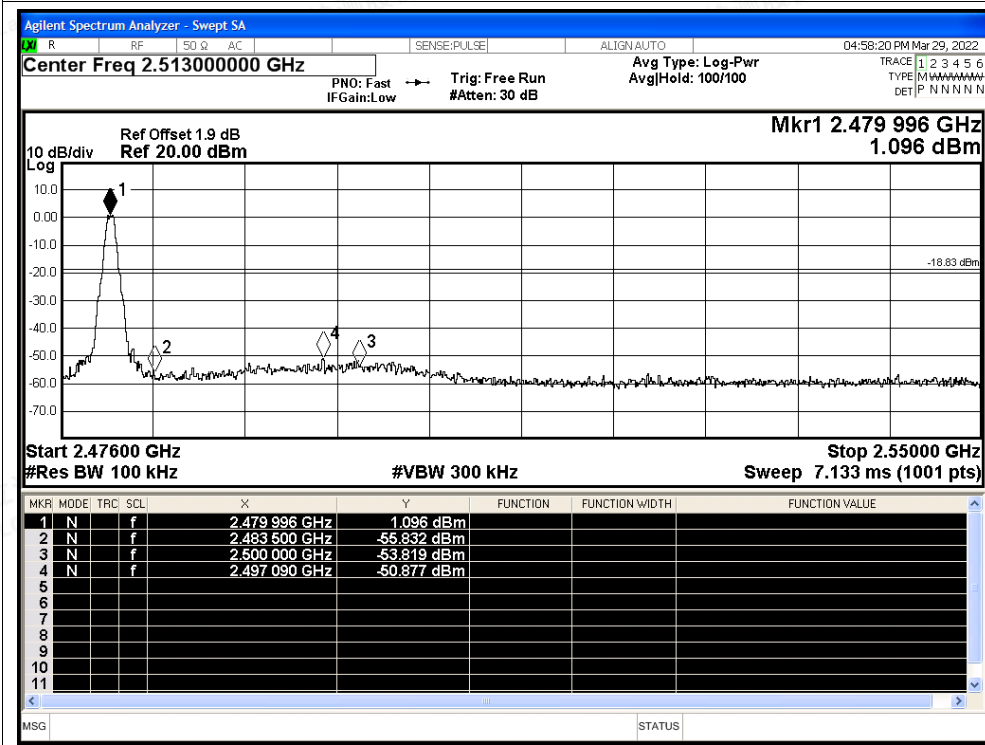
Scan code to check authenticity



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

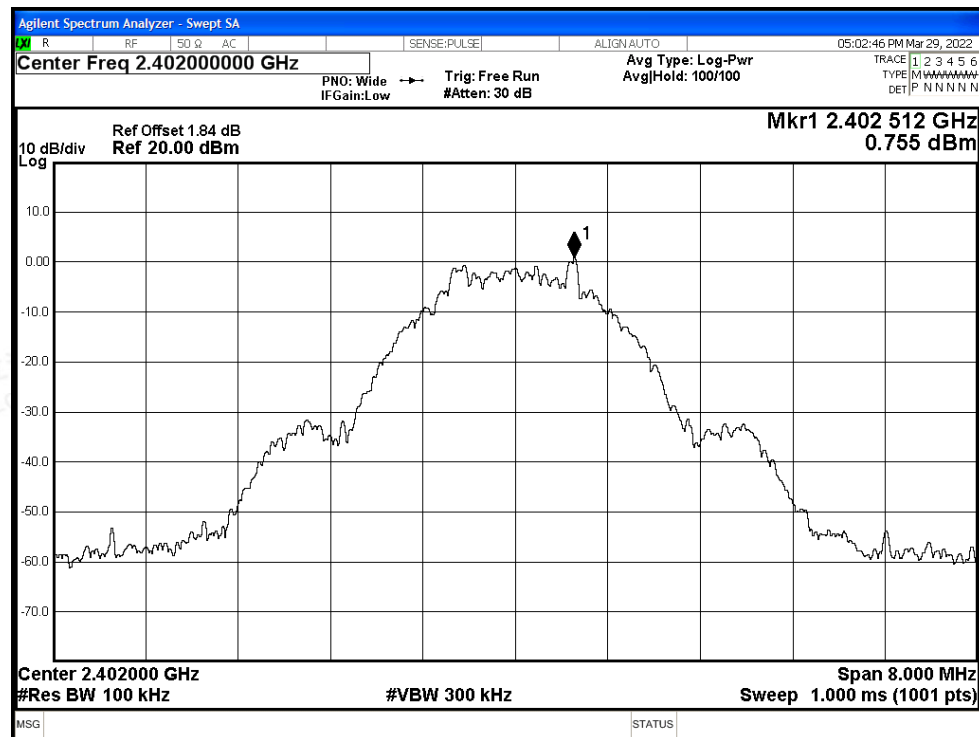
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

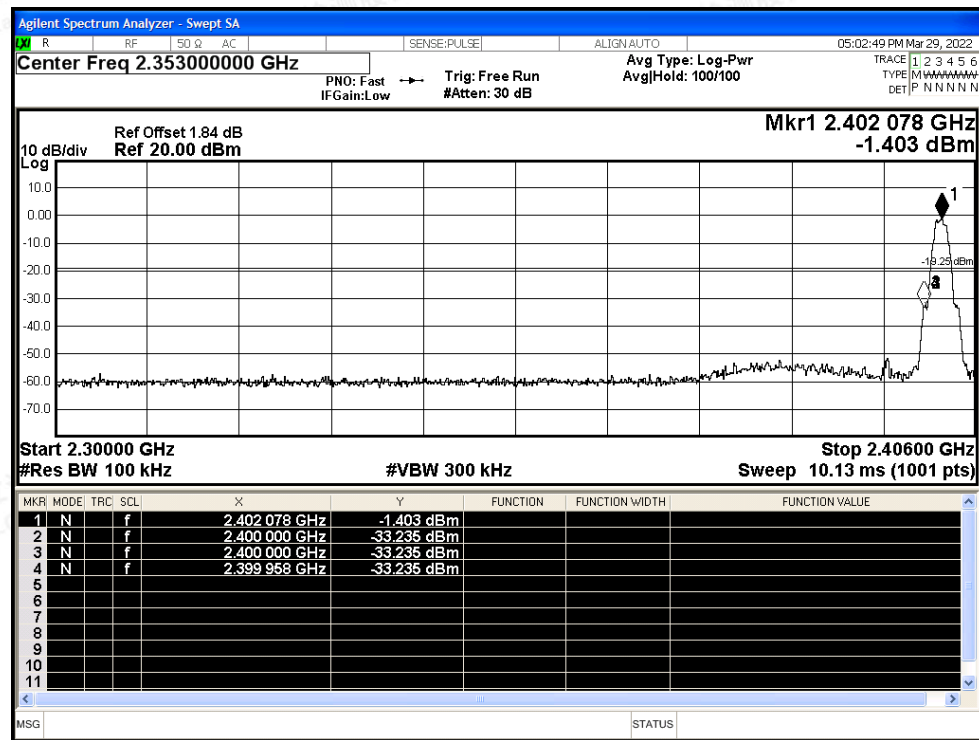
Scan code to check authenticity



Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

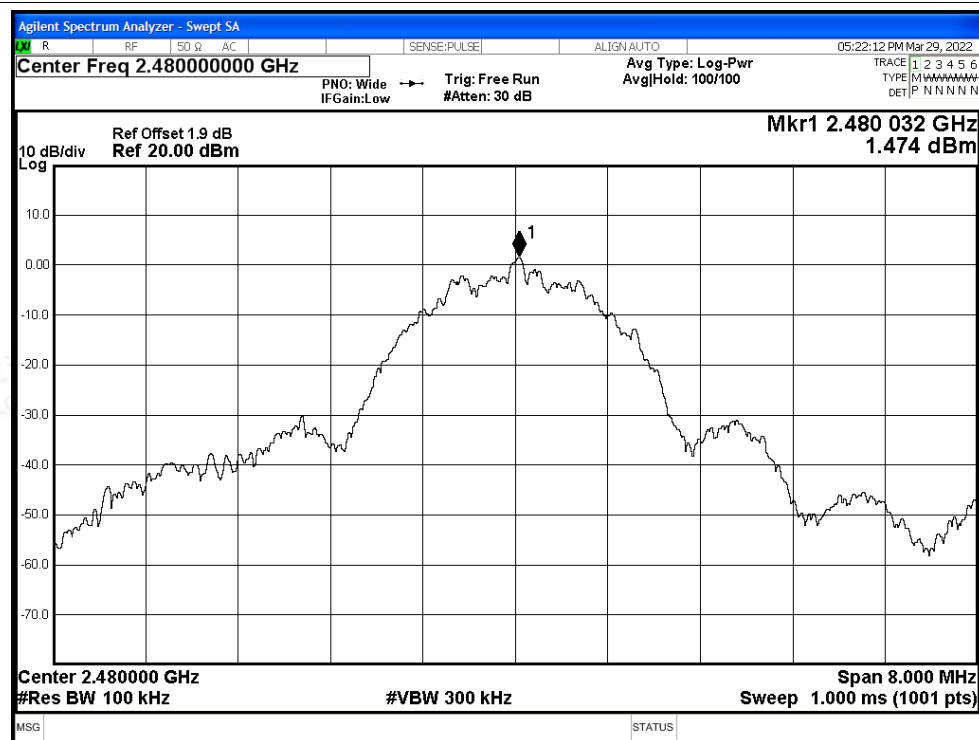
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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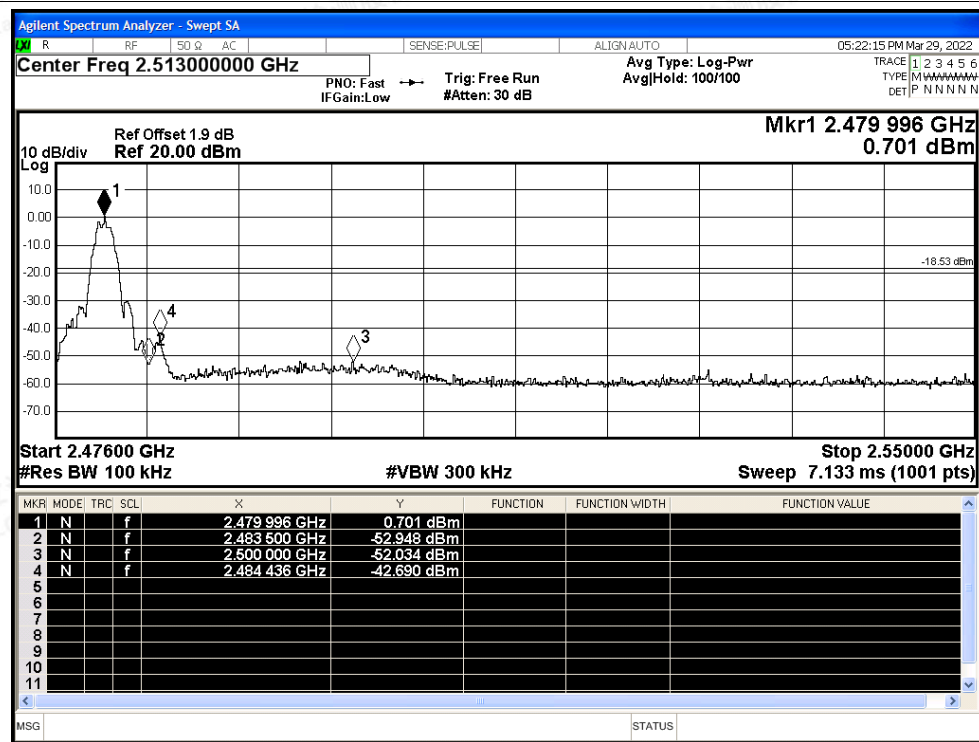
Scan code to check authenticity



Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission



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B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-45.58	-20	Pass
NVNT	BLE 1M	2440	Ant1	-46.91	-20	Pass
NVNT	BLE 1M	2480	Ant1	-48.97	-20	Pass
NVNT	BLE 2M	2402	Ant1	-49.68	-20	Pass
NVNT	BLE 2M	2440	Ant1	-47.6	-20	Pass
NVNT	BLE 2M	2480	Ant1	-51.16	-20	Pass

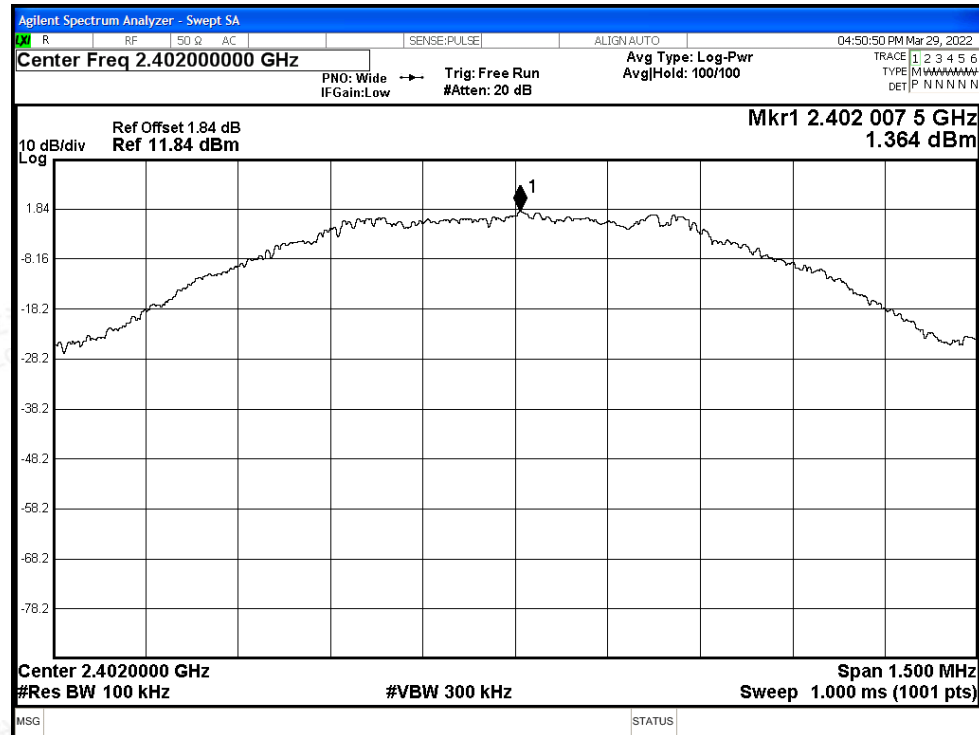


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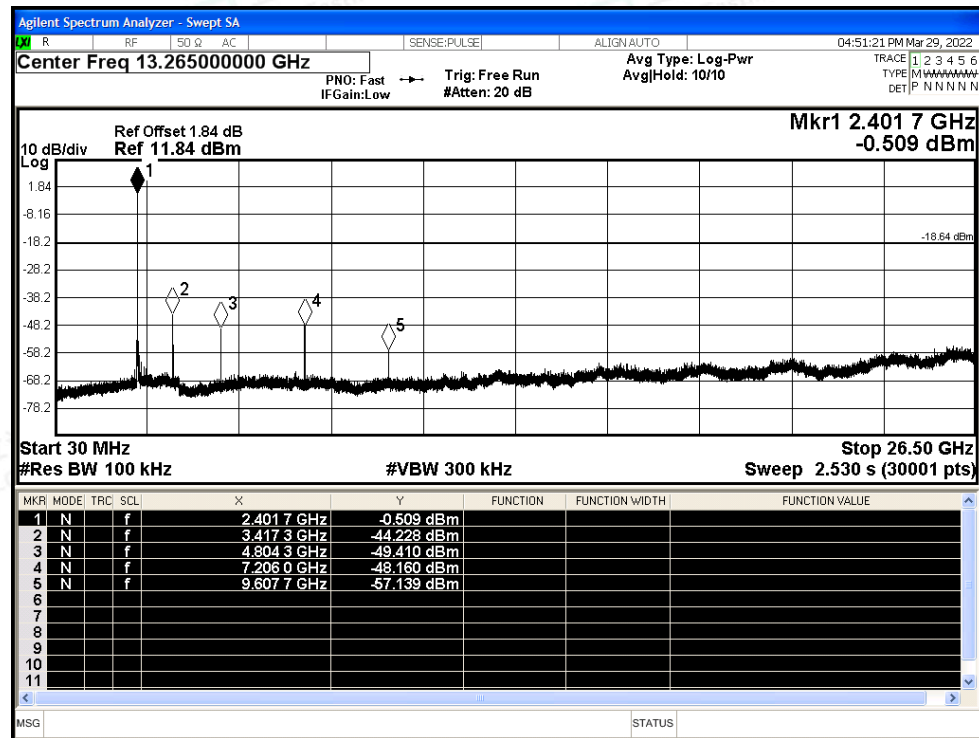


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

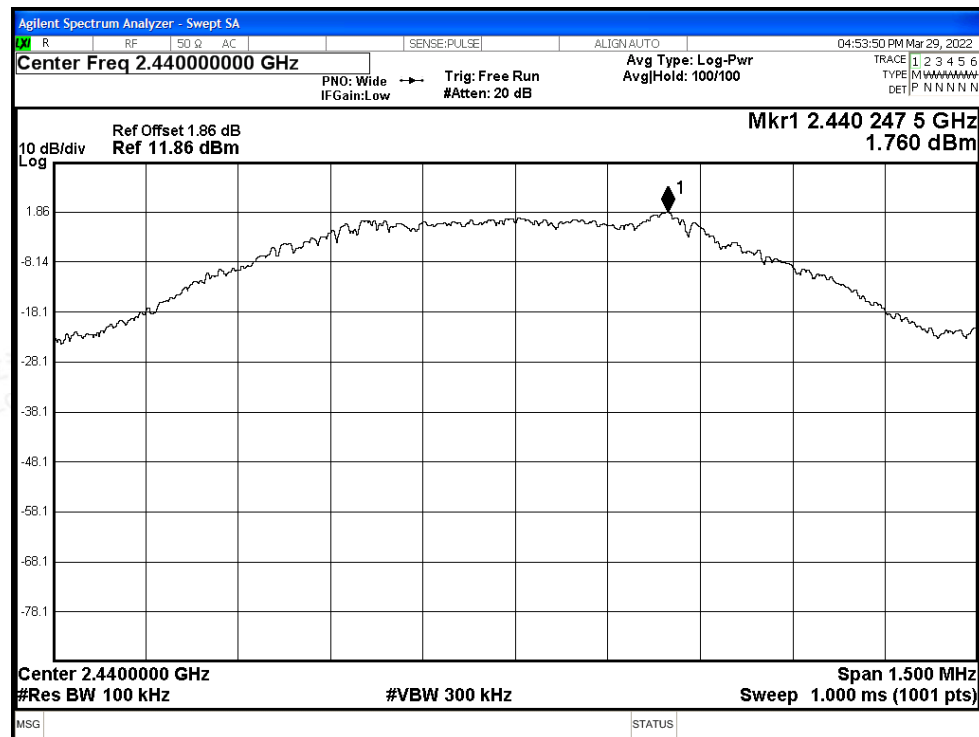
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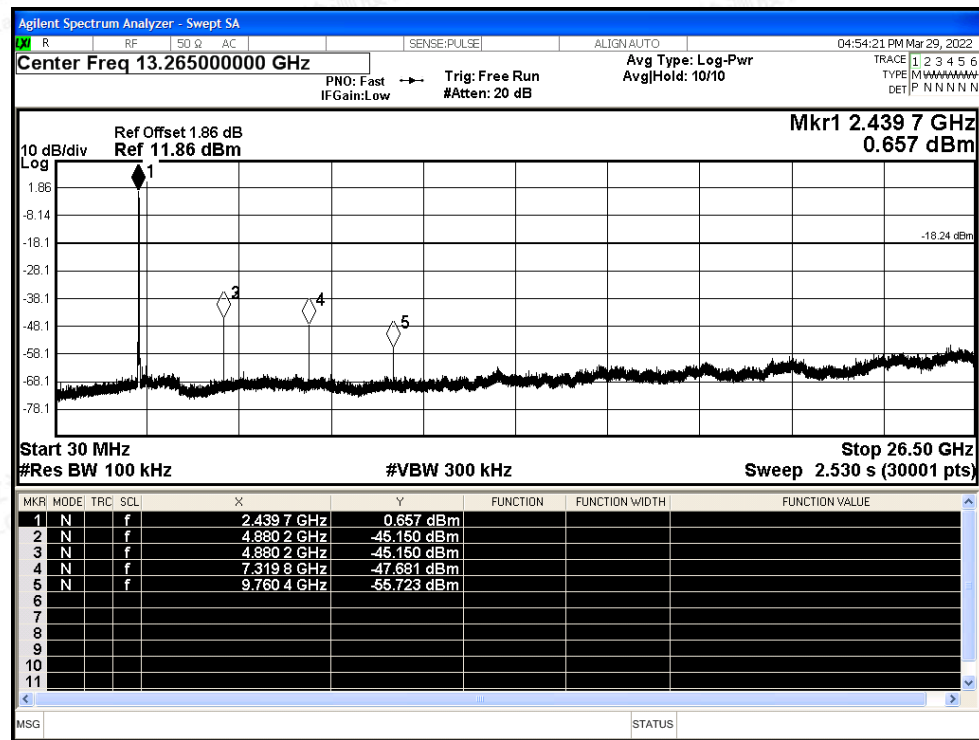
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Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



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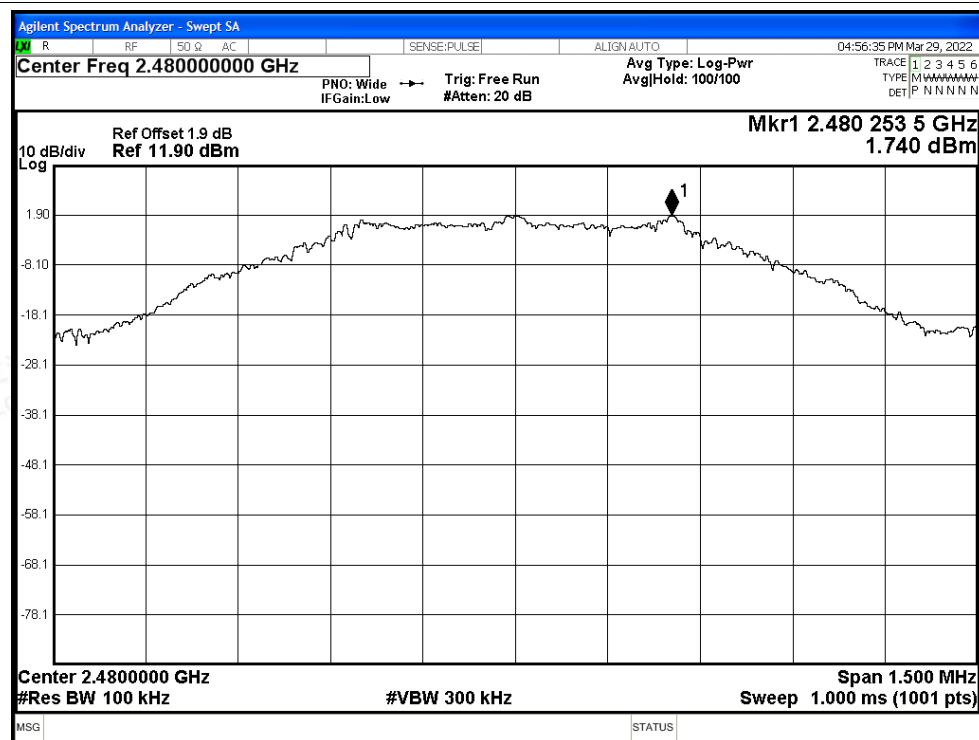
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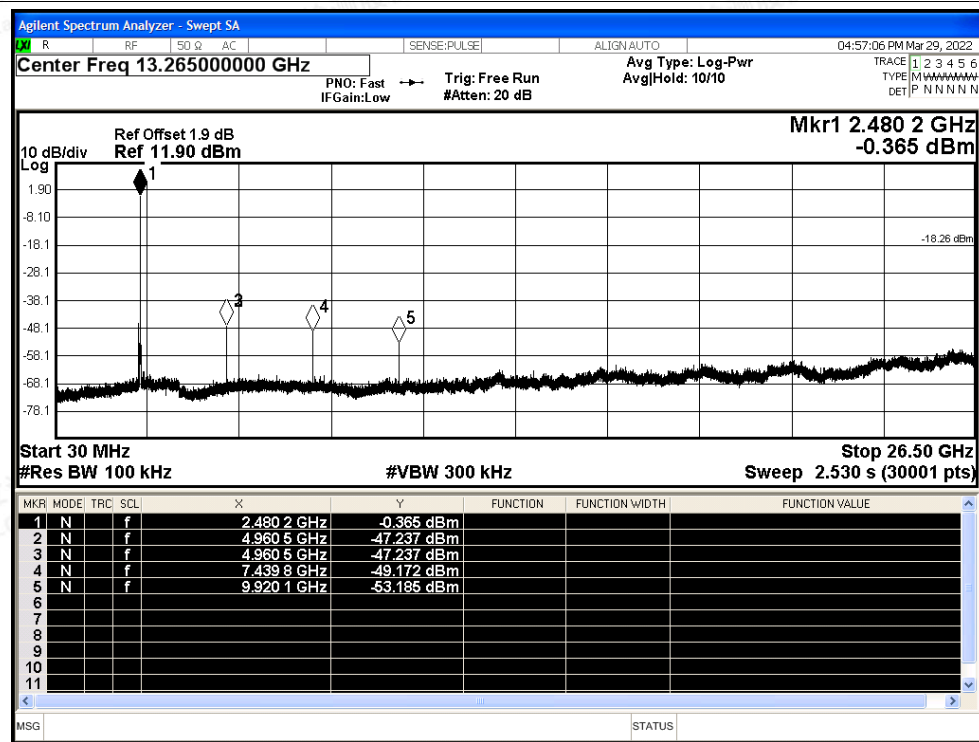
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



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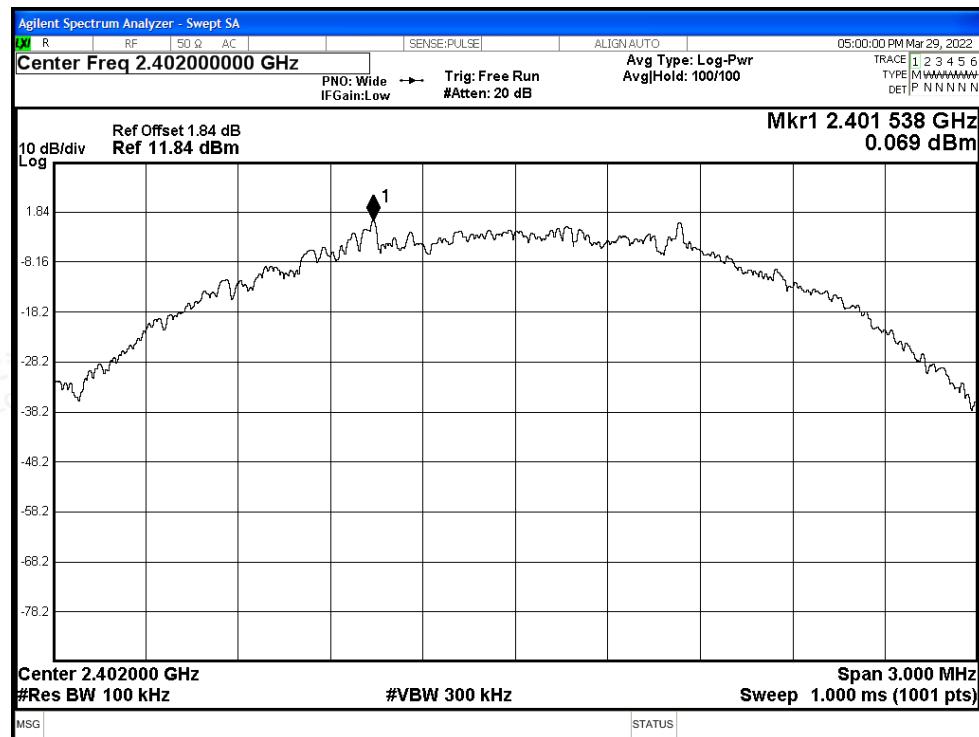
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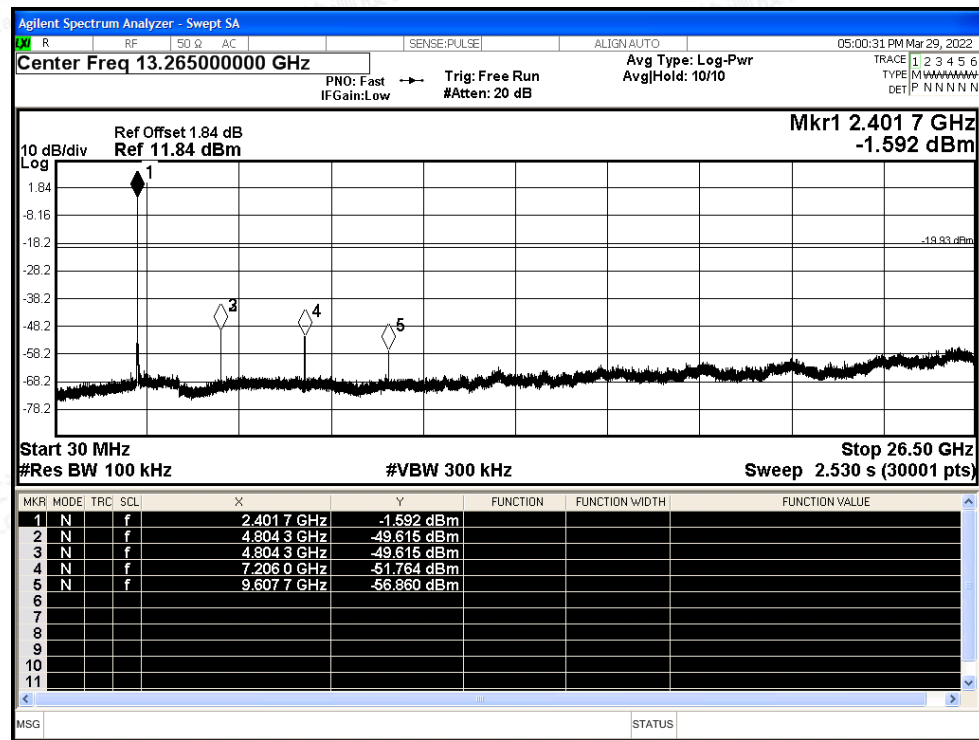
Scan code to check authenticity



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



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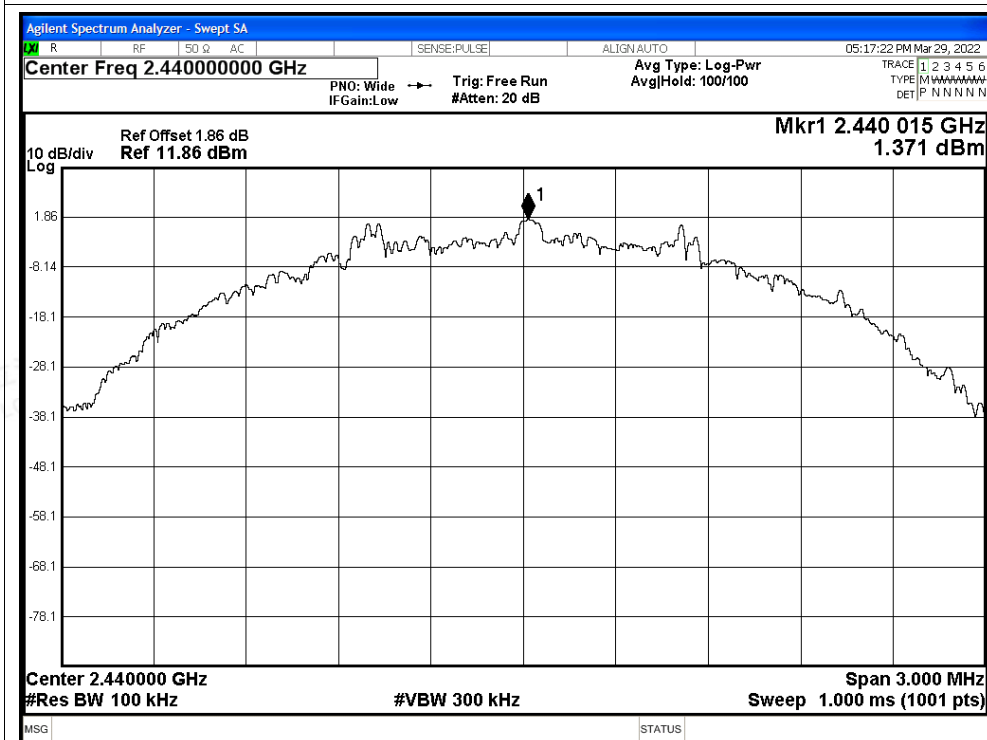
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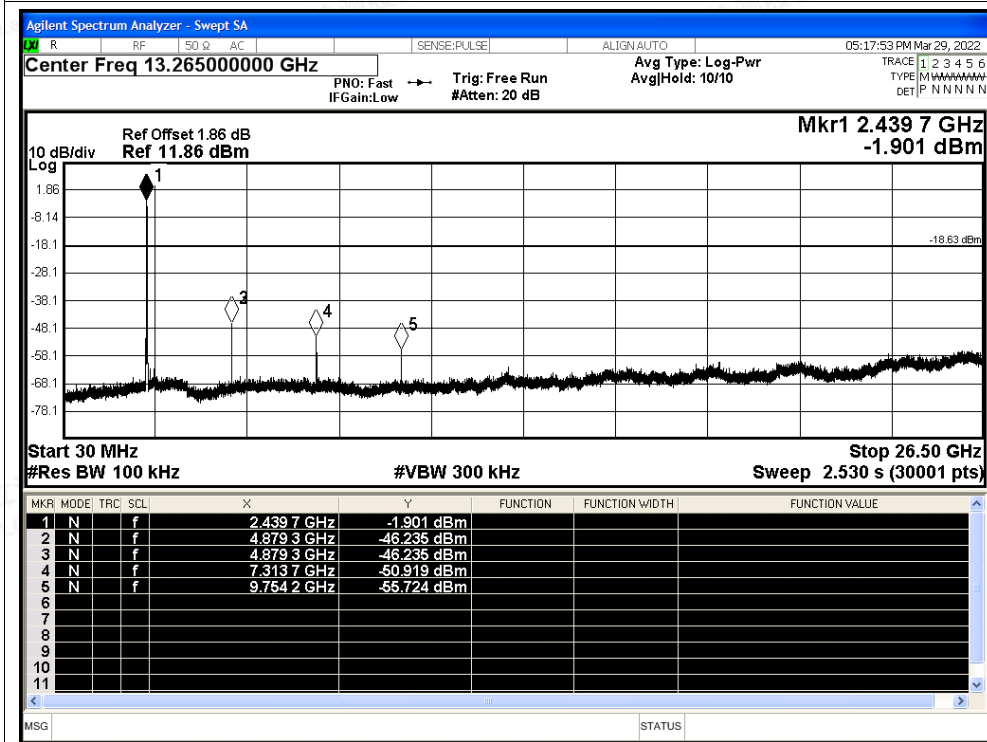
Scan code to check authenticity



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



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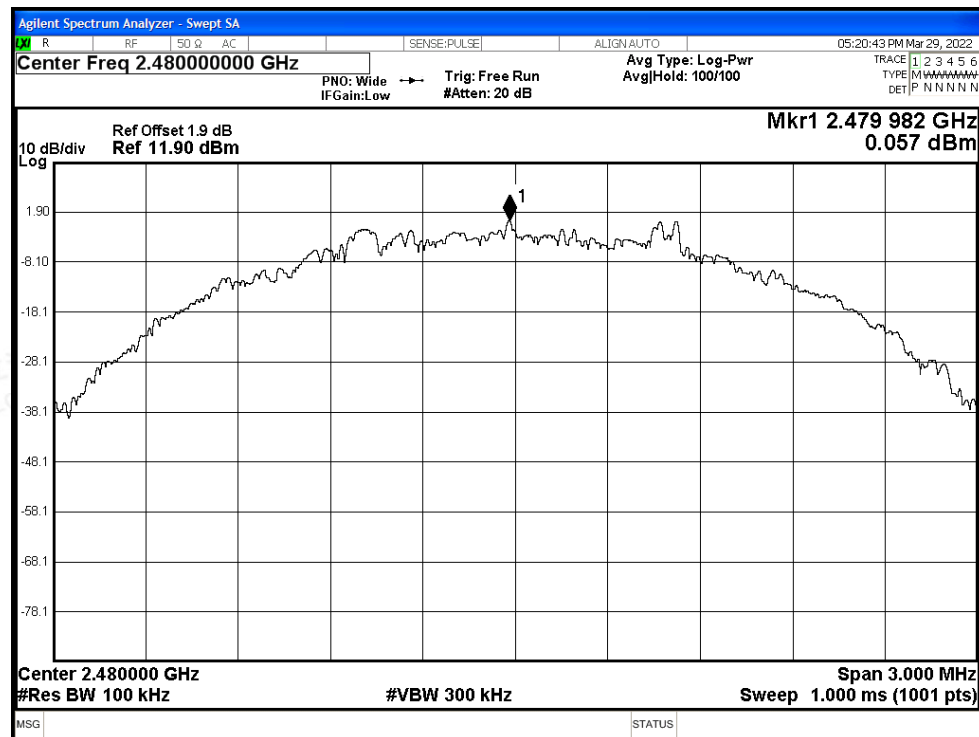
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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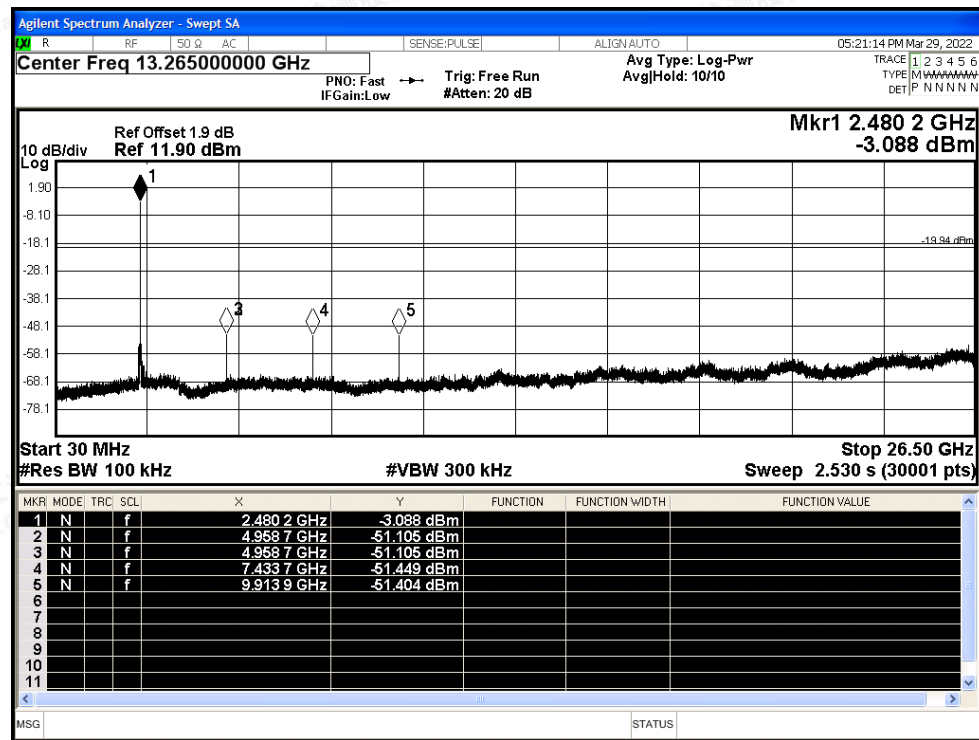
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Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission



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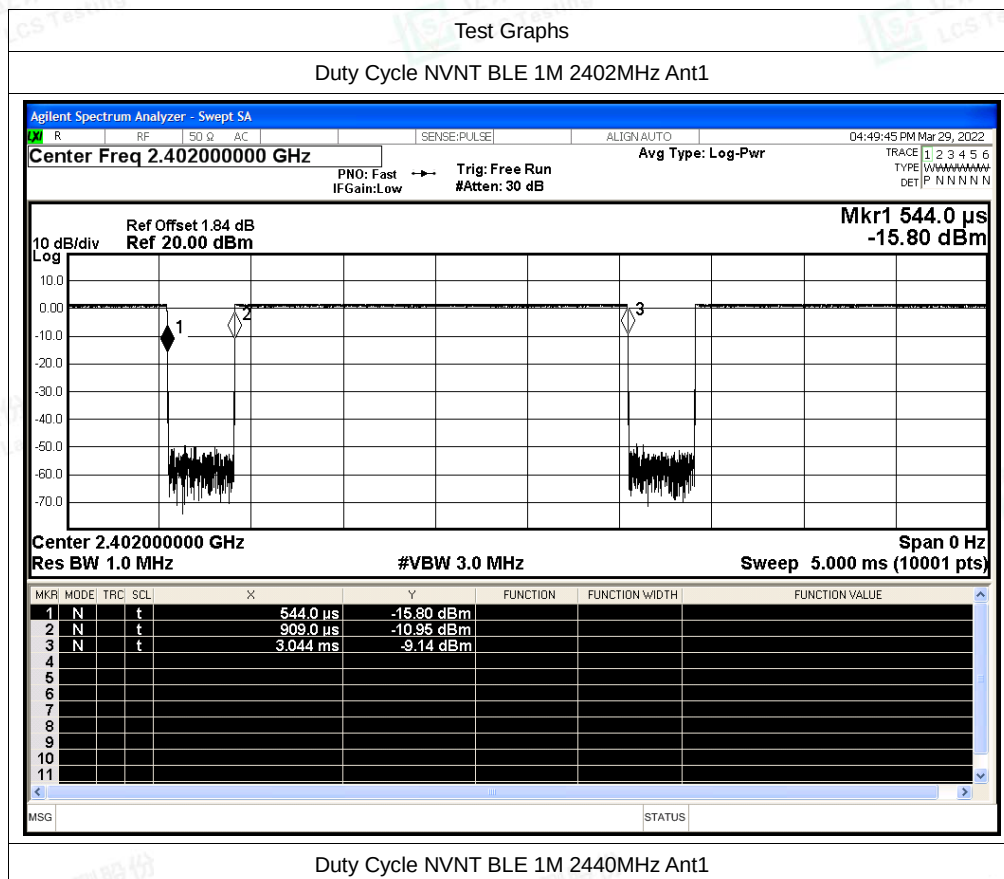
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B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	85.4	0.69	0.47
NVNT	BLE 1M	2440	Ant1	85.4	0.69	0.47
NVNT	BLE 1M	2480	Ant1	85.42	0.68	0.47
NVNT	BLE 2M	2402	Ant1	43.33	3.63	0.92
NVNT	BLE 2M	2440	Ant1	43.32	3.63	0.92
NVNT	BLE 2M	2480	Ant1	43.32	3.63	0.92

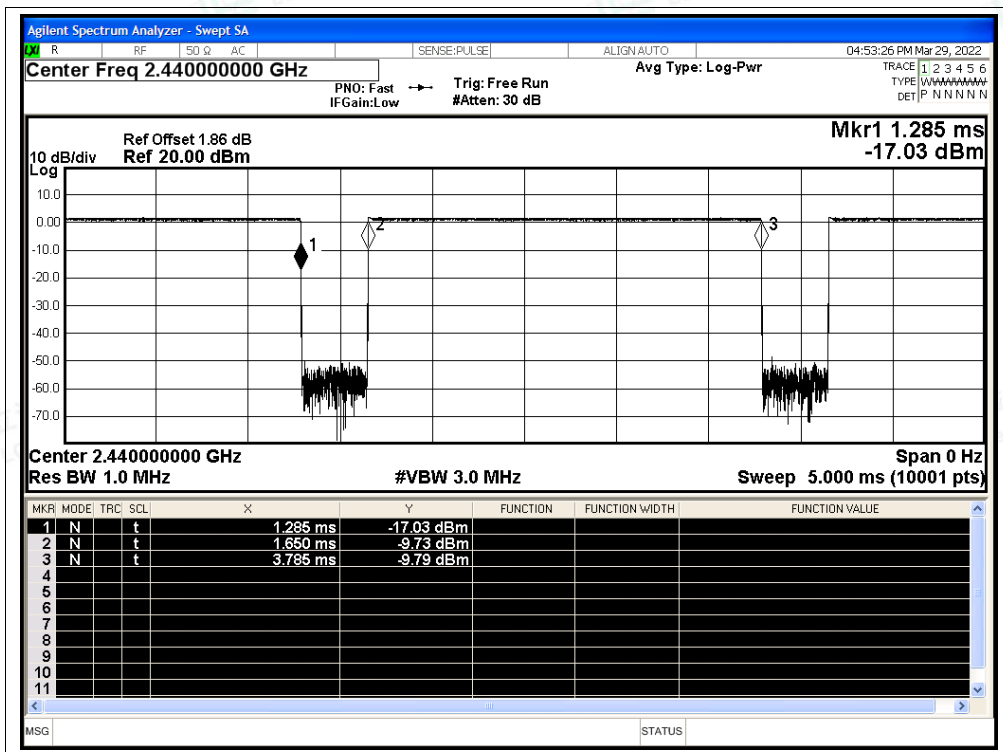


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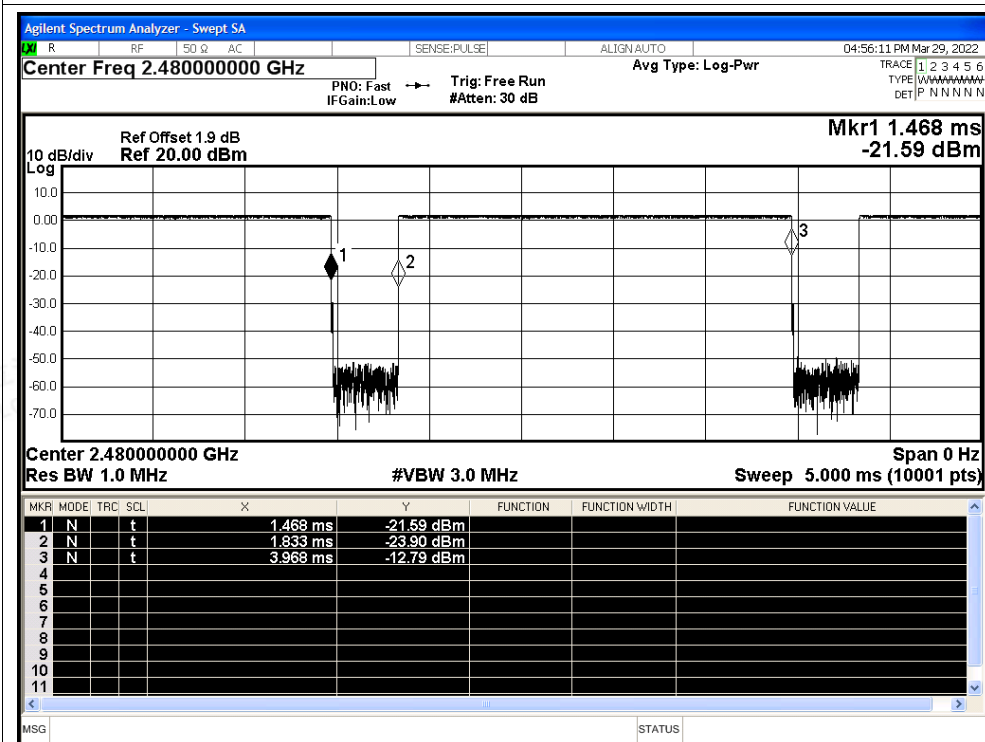
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

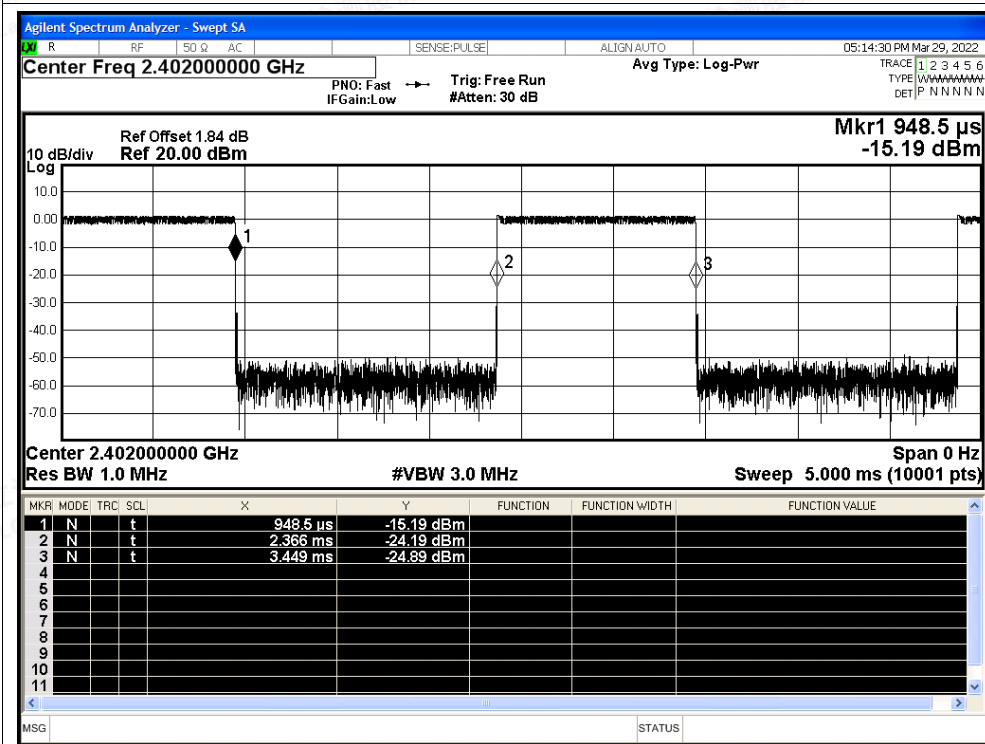
Scan code to check authenticity



Duty Cycle NVNT BLE 1M 2480MHz Ant1



Duty Cycle NVNT BLE 2M 2402MHz Ant1



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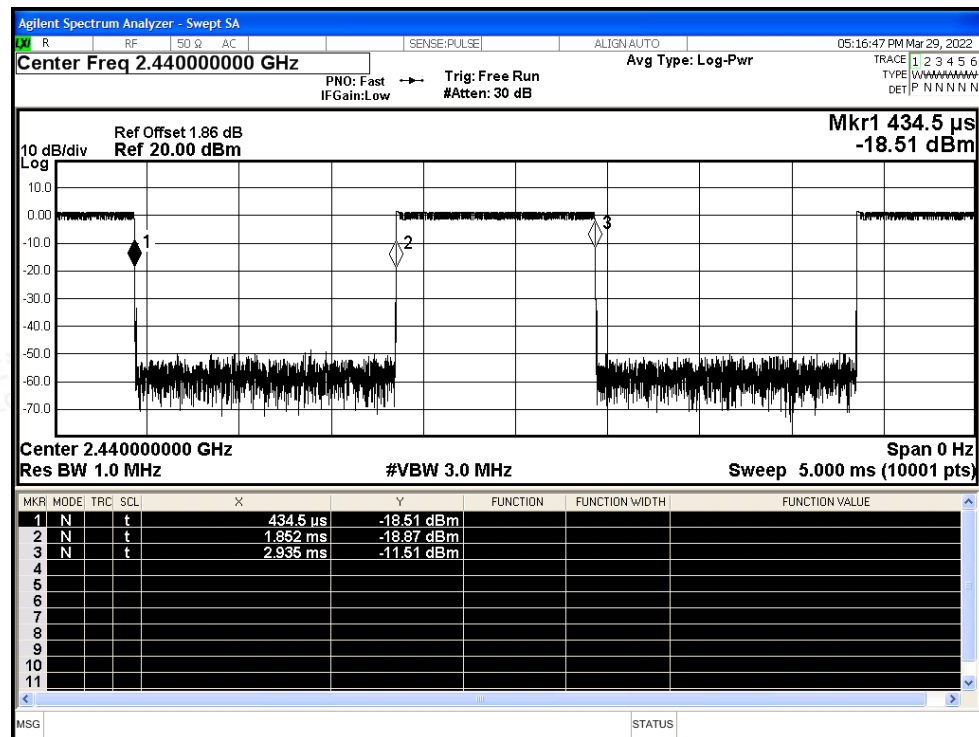
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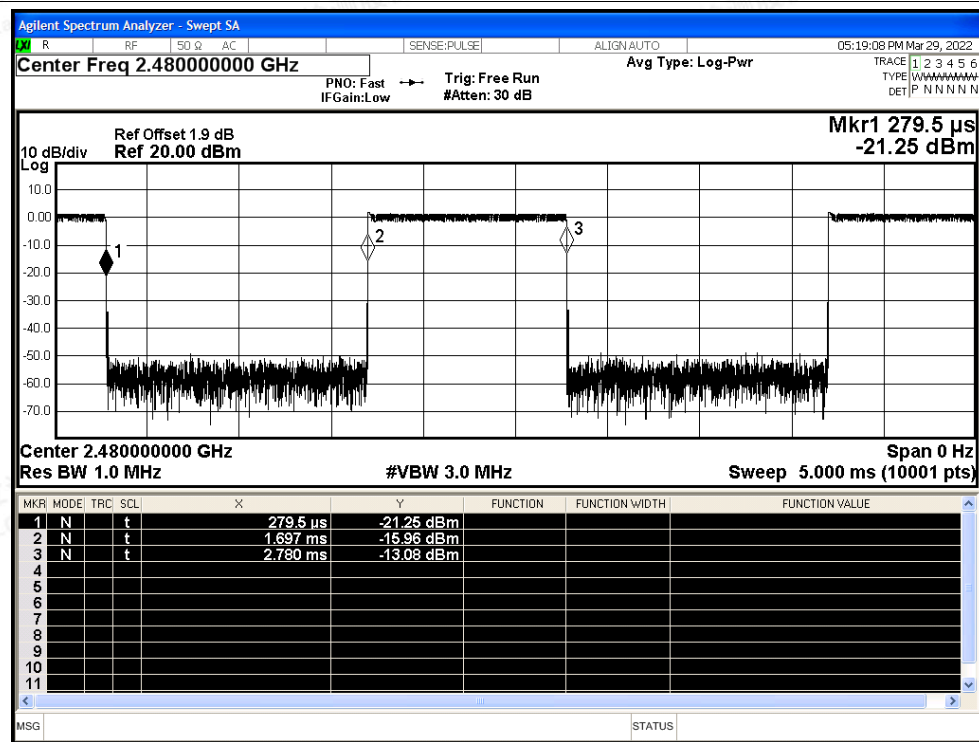
Scan code to check authenticity



Duty Cycle NVNT BLE 2M 2440MHz Ant1



Duty Cycle NVNT BLE 2M 2480MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

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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	Ant1	2310	-50.63	2	46.63	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-60.42	2	36.84	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2379.606	-42.94	2	54.32	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2382.68	-54.3	2	42.96	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-46.23	2	51.03	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-55.95	2	41.31	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-47.7	2	49.56	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-56.96	2	40.3	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2498.126	-42.56	2	54.7	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2499.31	-53.69	2	43.57	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-45.88	2	51.38	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-53.84	2	43.42	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2310	-49.58	2	47.68	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2310	-60.24	2	37.02	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2377.698	-43.42	2	53.84	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2381.196	-53.6	2	43.66	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2390	-47.02	2	50.24	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2390	-56.38	2	40.88	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-38.97	2	58.29	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-48.08	2	49.18	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2484.51	-37.93	2	59.33	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2484.14	-46.6	2	50.66	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2500	-44.34	2	52.92	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2500	-53.57	2	43.69	Average	54	Pass



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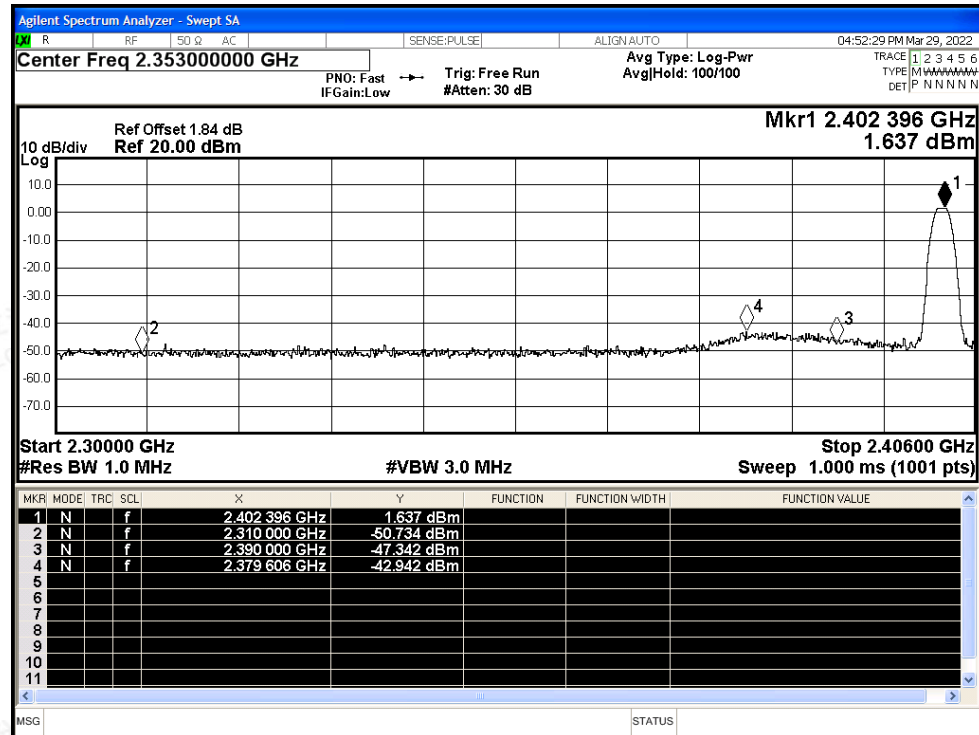
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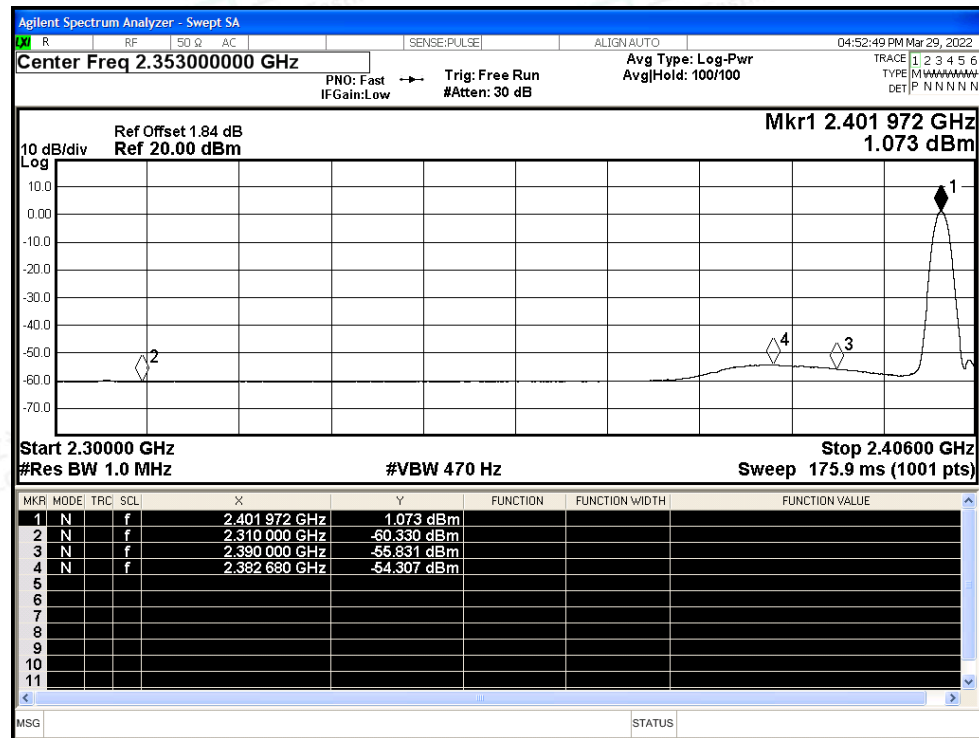


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



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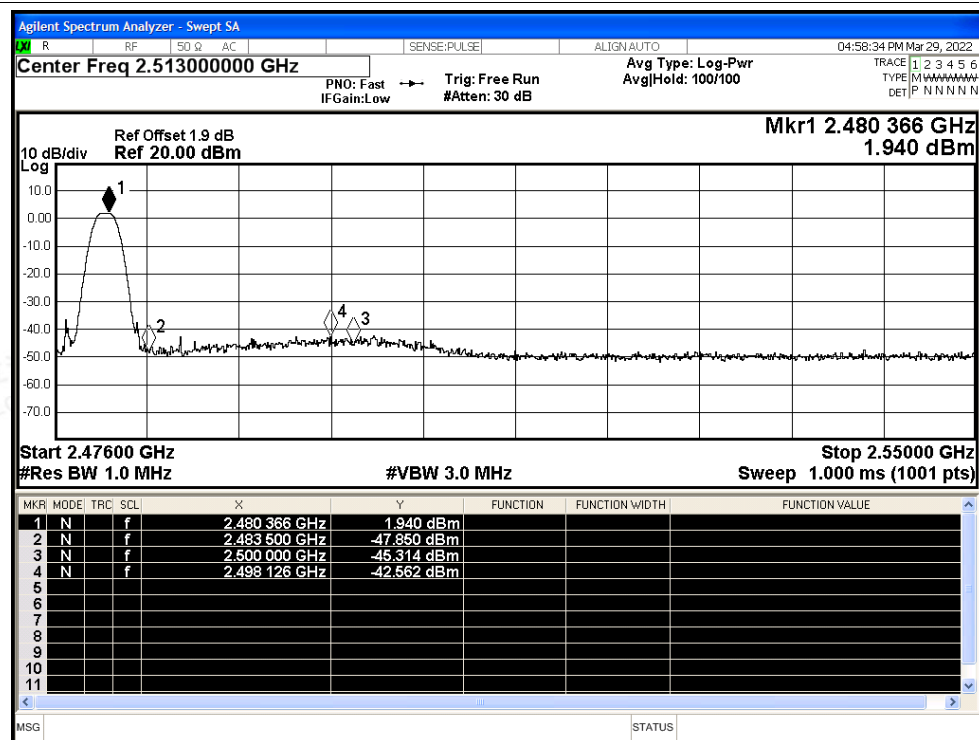
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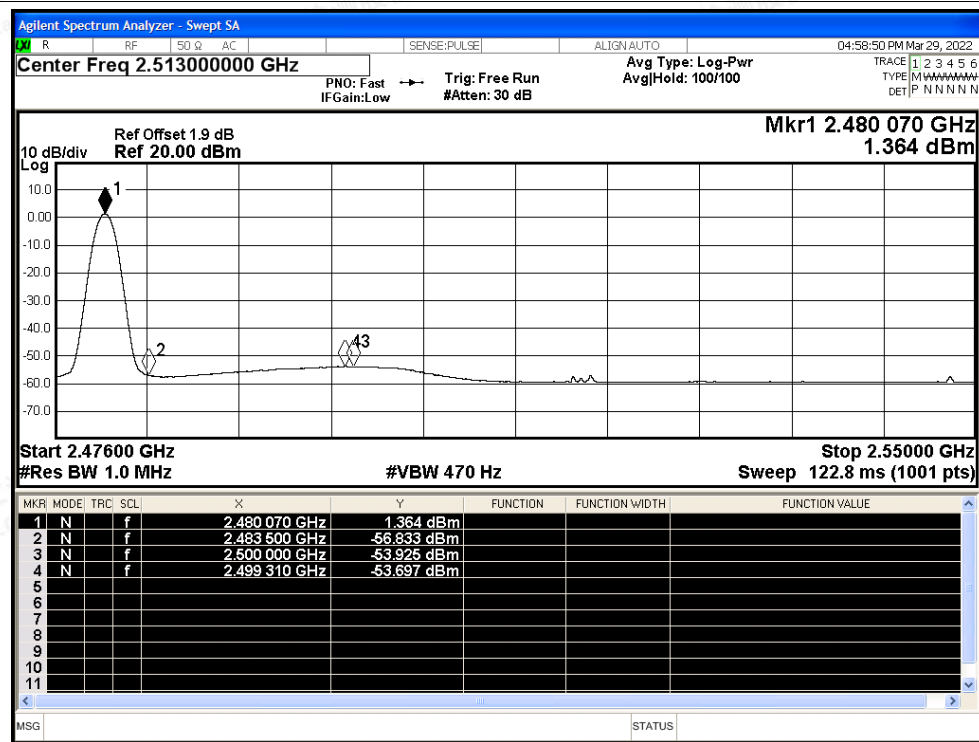
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Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



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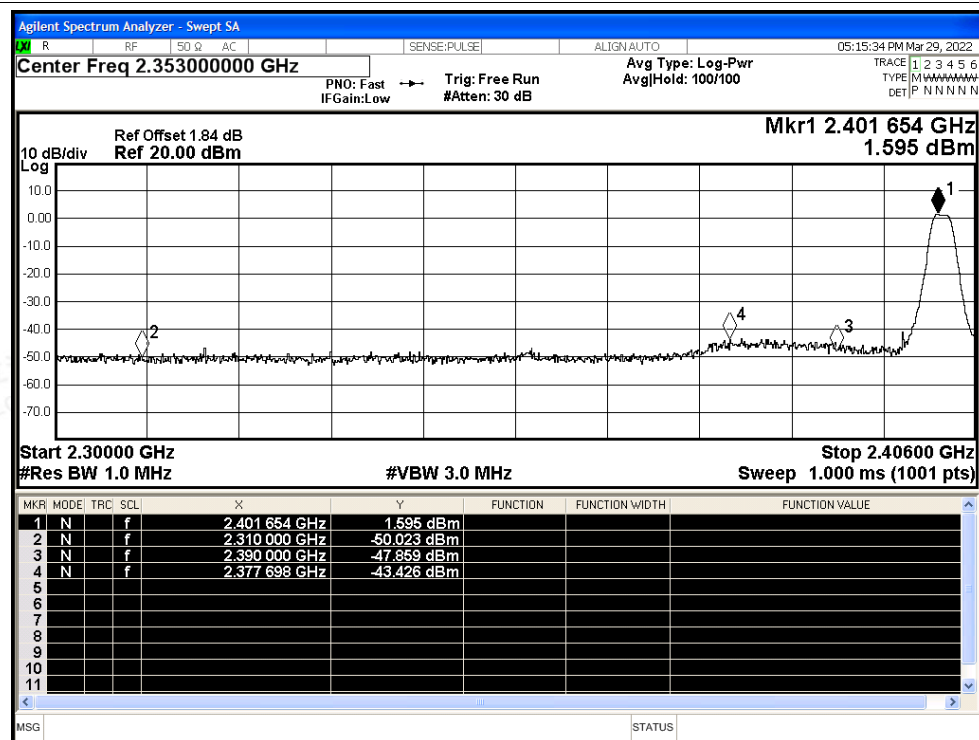
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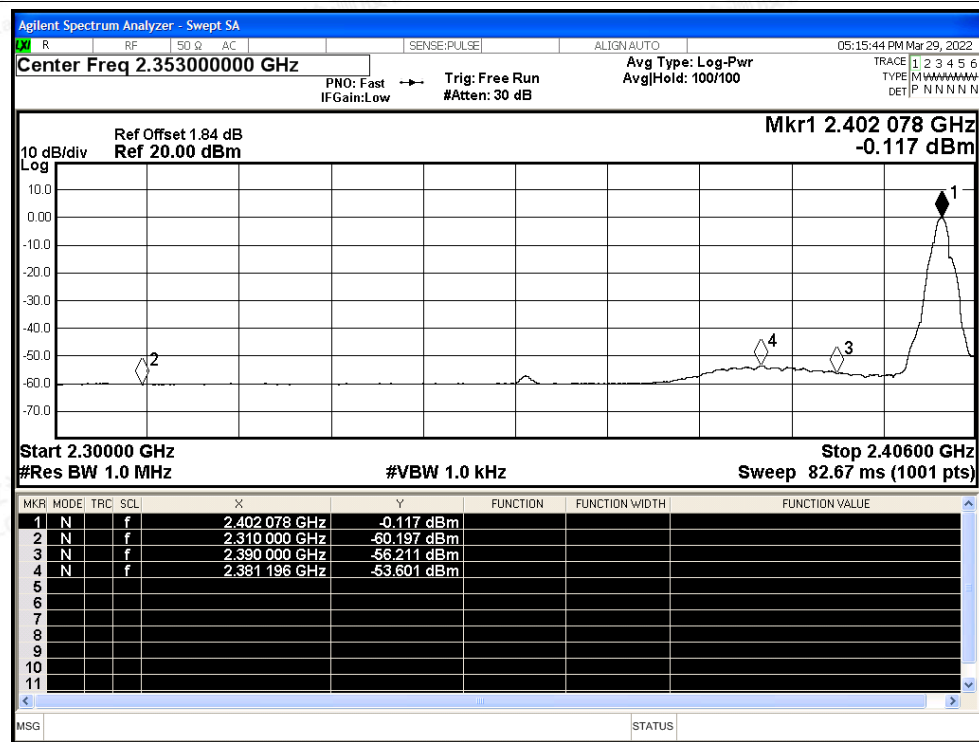
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Restrict Band NVNT BLE 2M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2402MHz Ant1 Average



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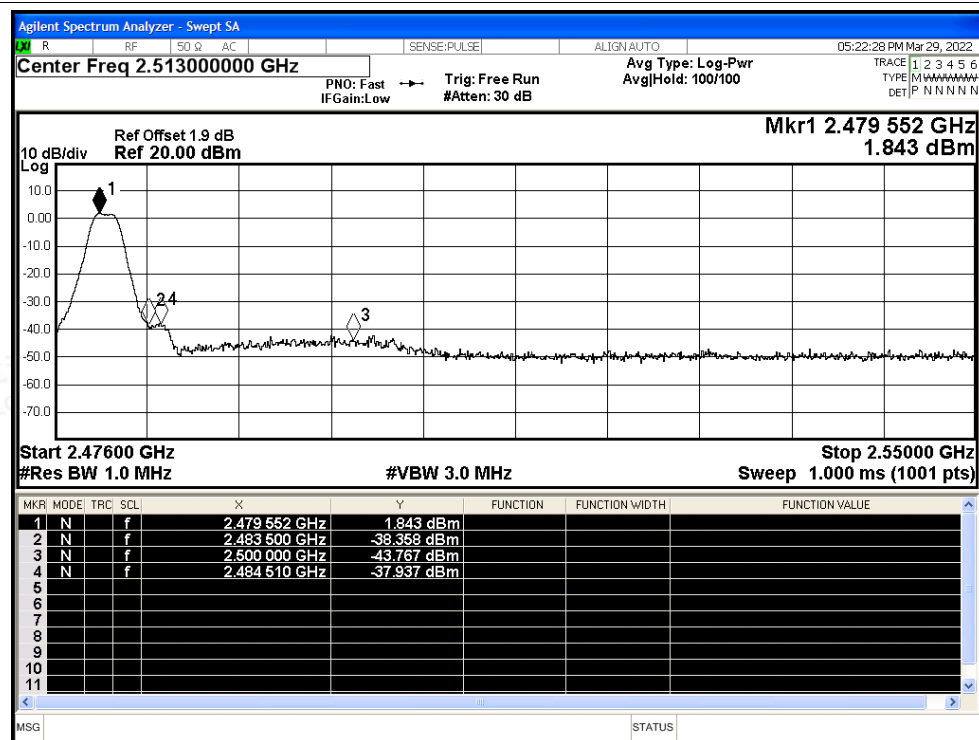
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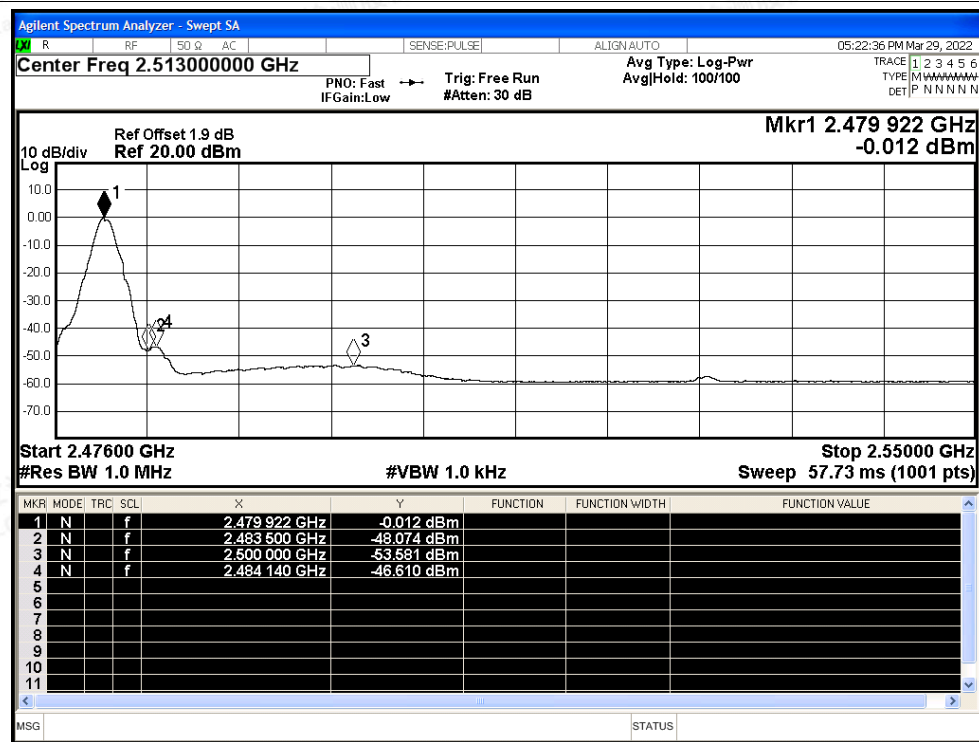
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Restrict Band NVNT BLE 2M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2480MHz Ant1 Average



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