



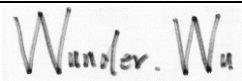
Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: Mibro Watch C2

Test Model: XPAW009

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Wunder Wu
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	Ant	0.656	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant	0.651	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant	0.687	≥ 0.5	Pass
NVNT	BLE 2M	2402	Ant	1.425	≥ 0.5	Pass
NVNT	BLE 2M	2440	Ant	1.445	≥ 0.5	Pass
NVNT	BLE 2M	2480	Ant	1.291	≥ 0.5	Pass



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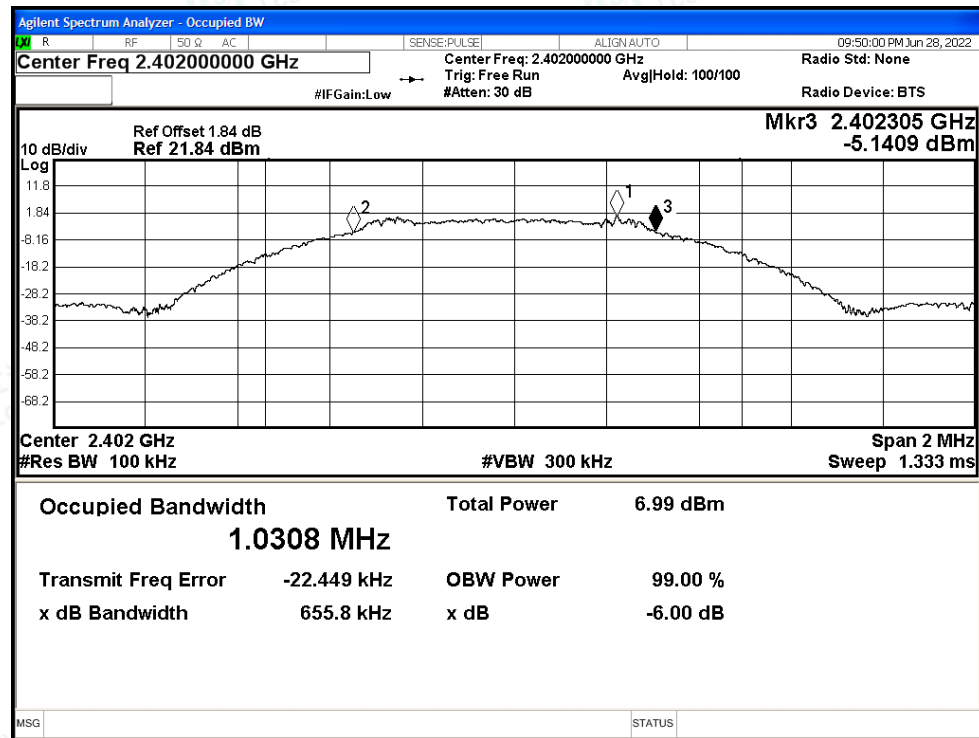
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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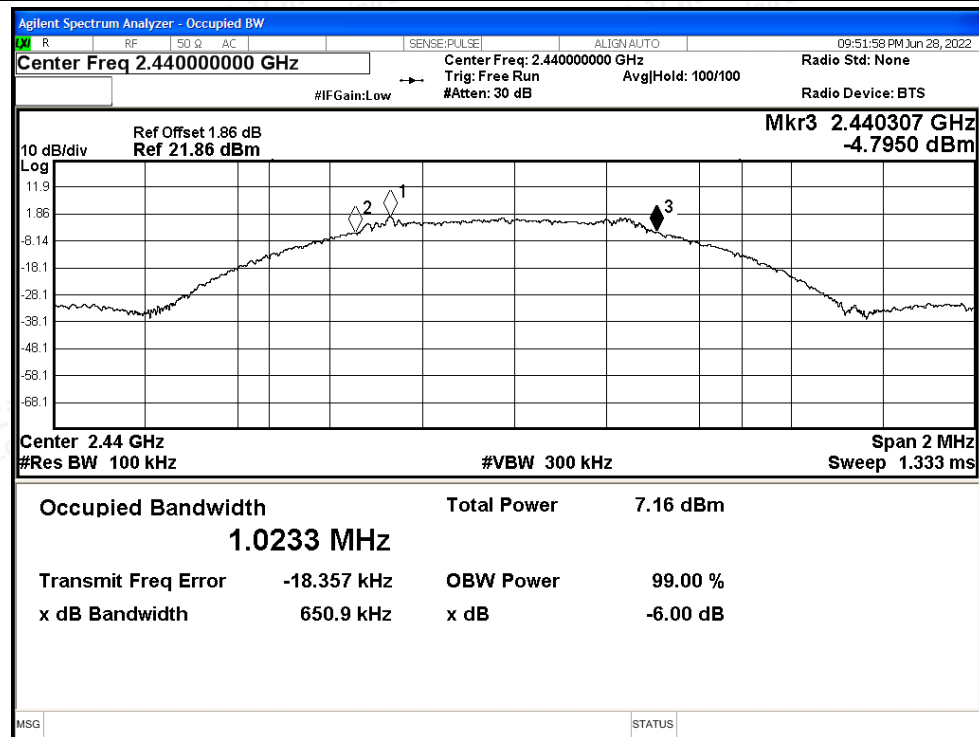


Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant



-6dB Bandwidth NVNT BLE 1M 2440MHz Ant



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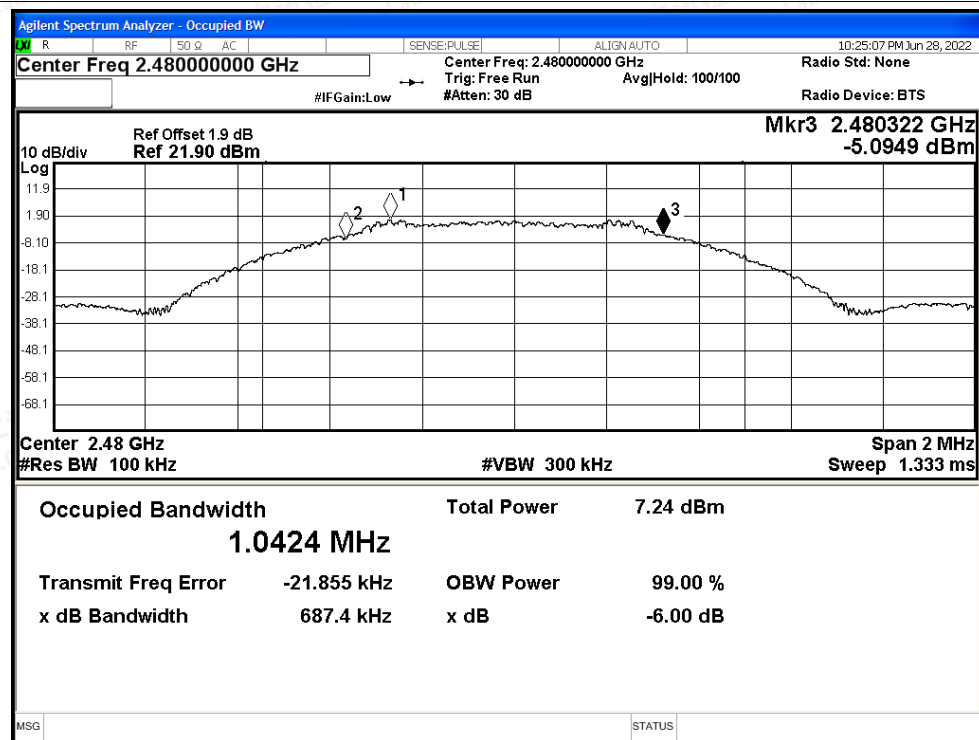
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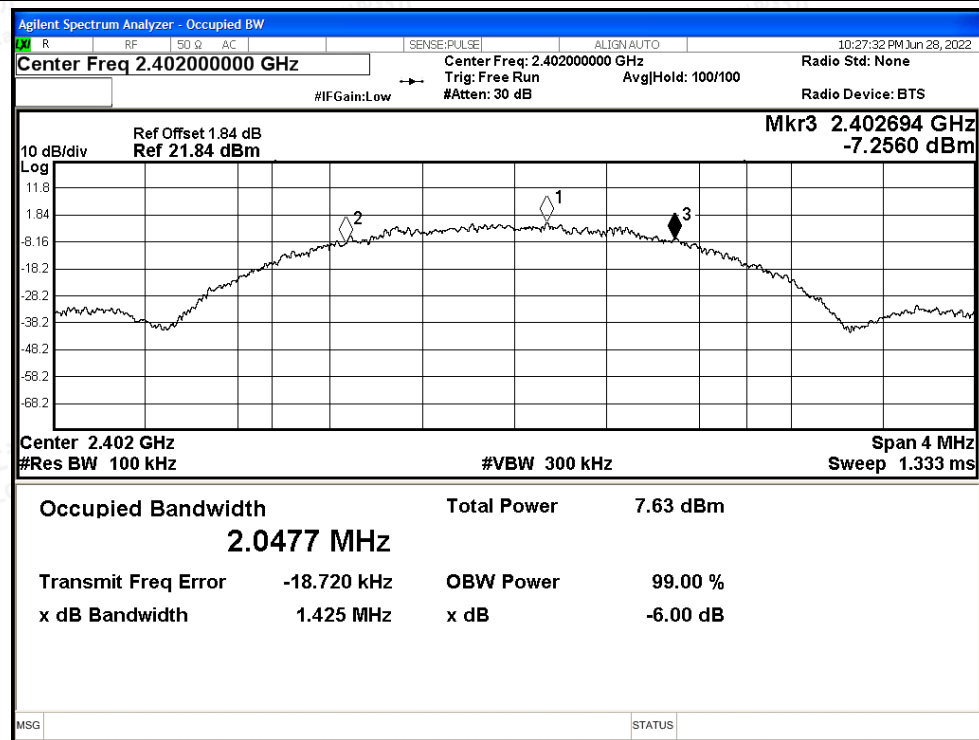
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-6dB Bandwidth NVNT BLE 1M 2480MHz Ant



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant



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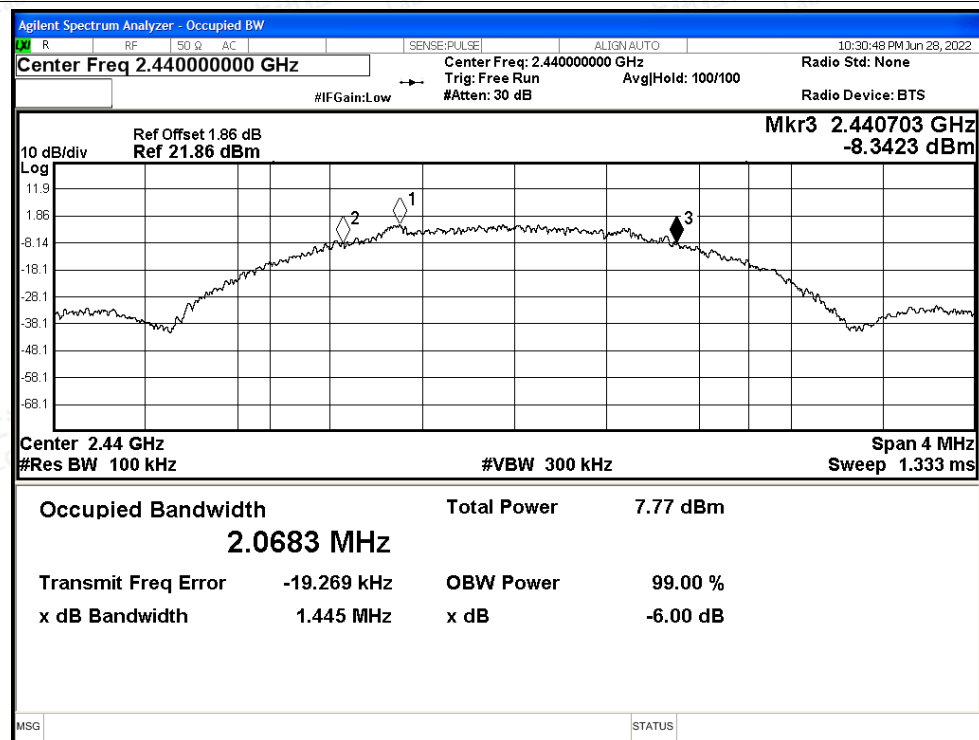
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

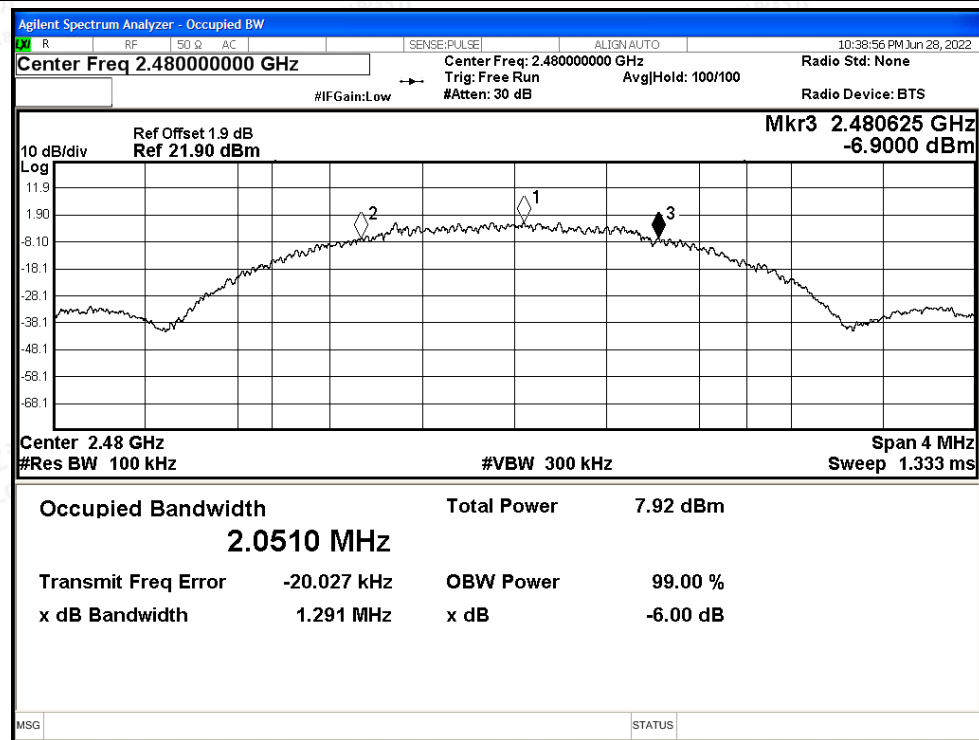
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-6dB Bandwidth NVNT BLE 2M 2440MHz Ant



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant



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A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant	0.95	30	Pass
NVNT	BLE 1M	2440	Ant	1.08	30	Pass
NVNT	BLE 1M	2480	Ant	1.27	30	Pass
NVNT	BLE 2M	2402	Ant	1.07	30	Pass
NVNT	BLE 2M	2440	Ant	1.17	30	Pass
NVNT	BLE 2M	2480	Ant	1.26	30	Pass



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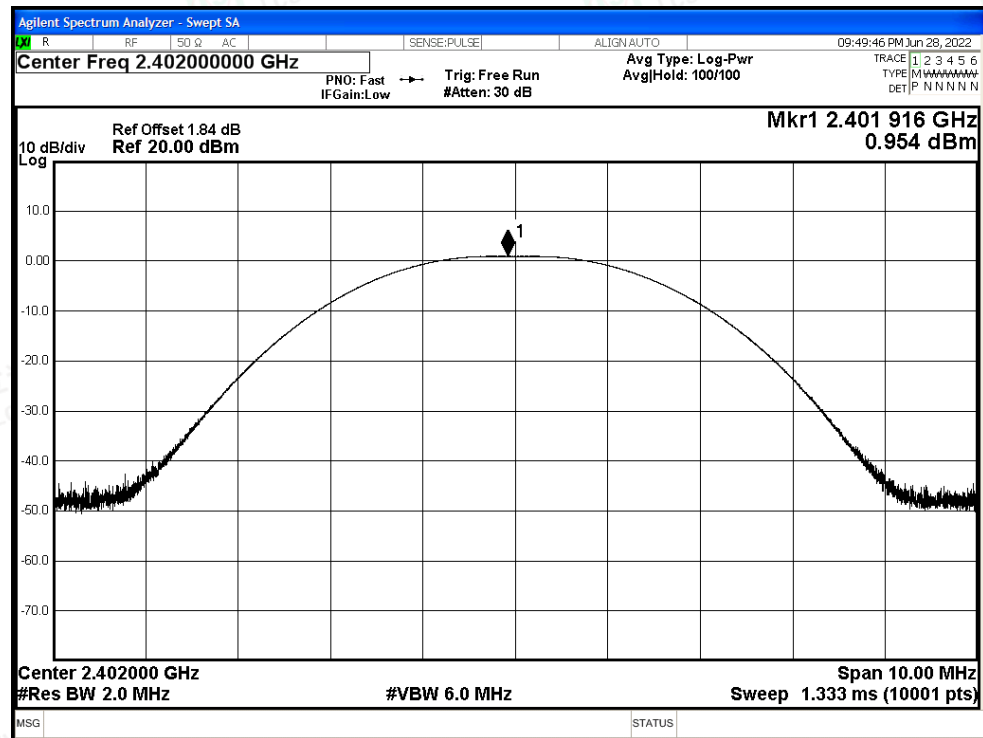
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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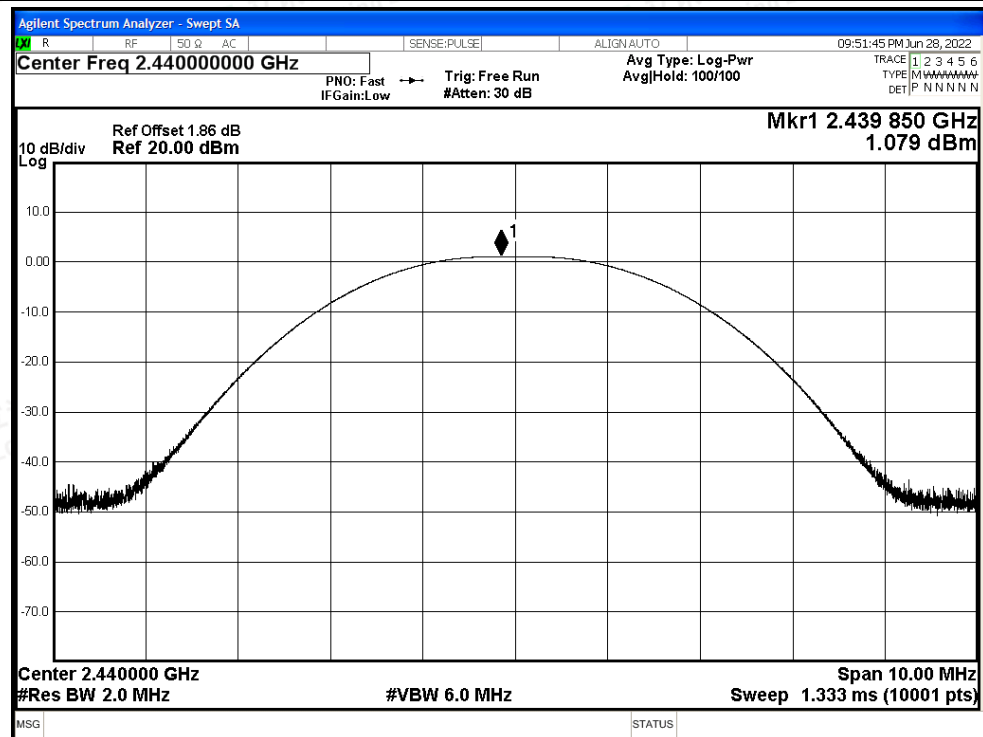


Test Graphs

Power NVNT BLE 1M 2402MHz Ant



Power NVNT BLE 1M 2440MHz Ant

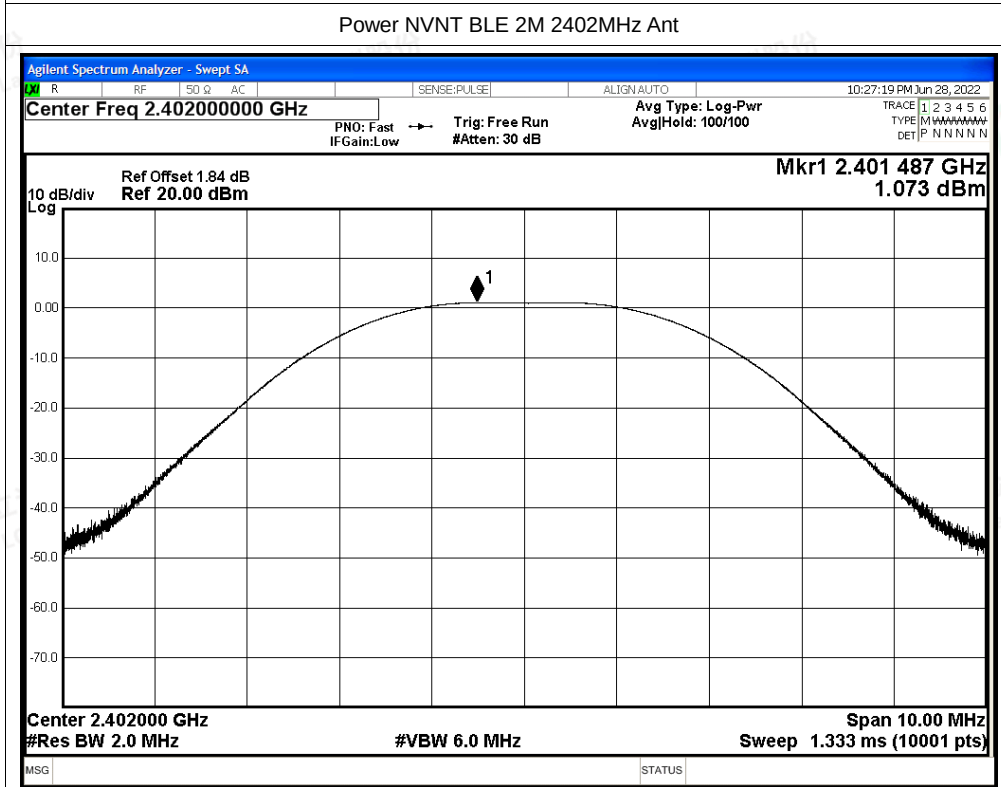
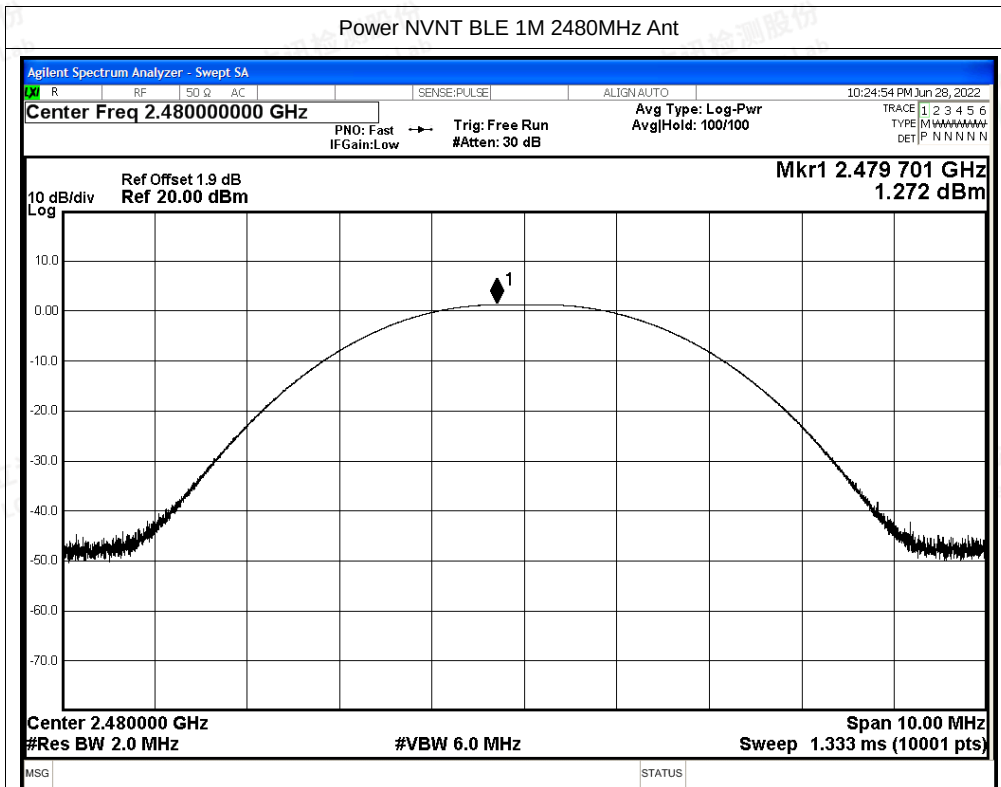


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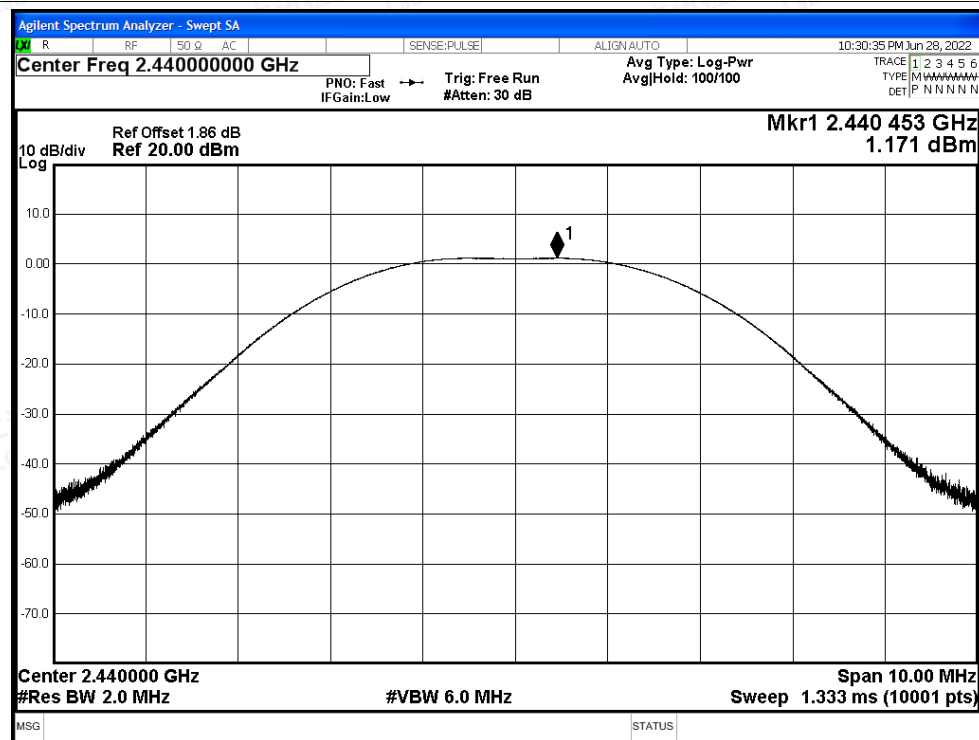
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

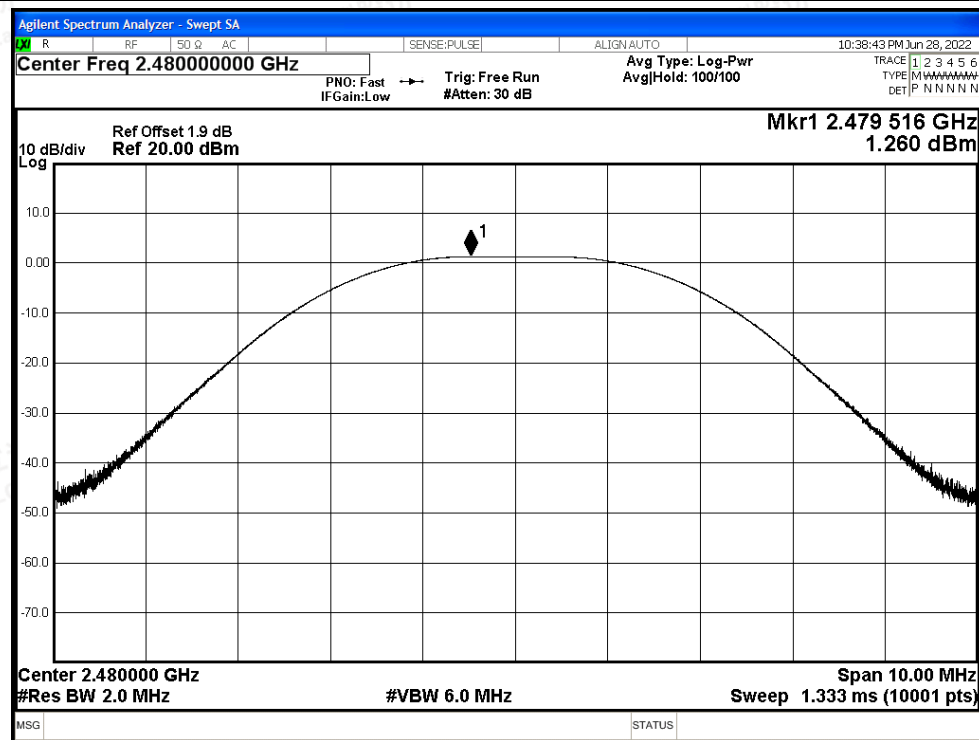
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Power NVNT BLE 2M 2440MHz Ant



Power NVNT BLE 2M 2480MHz Ant



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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	Ant	-9.33	0	-9.33	8	Pass
NVNT	BLE 1M	2440	Ant	-9.18	0	-9.18	8	Pass
NVNT	BLE 1M	2480	Ant	-8.4	0	-8.4	8	Pass
NVNT	BLE 2M	2402	Ant	-12.25	0	-12.25	8	Pass
NVNT	BLE 2M	2440	Ant	-12.12	0	-12.12	8	Pass
NVNT	BLE 2M	2480	Ant	-11.55	0	-11.55	8	Pass



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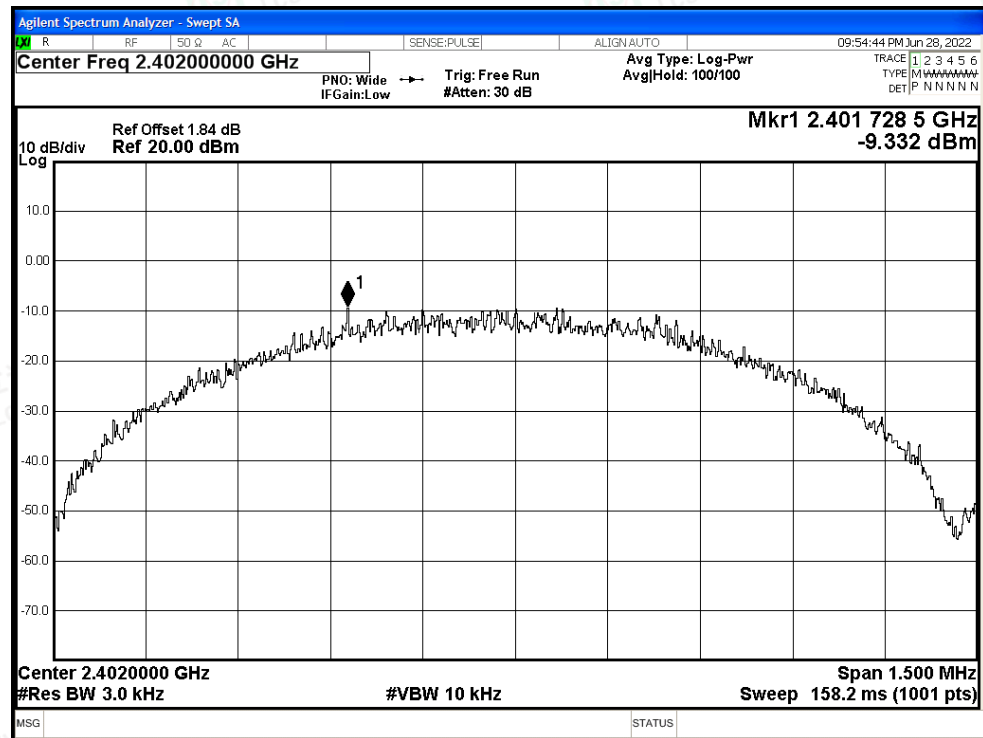
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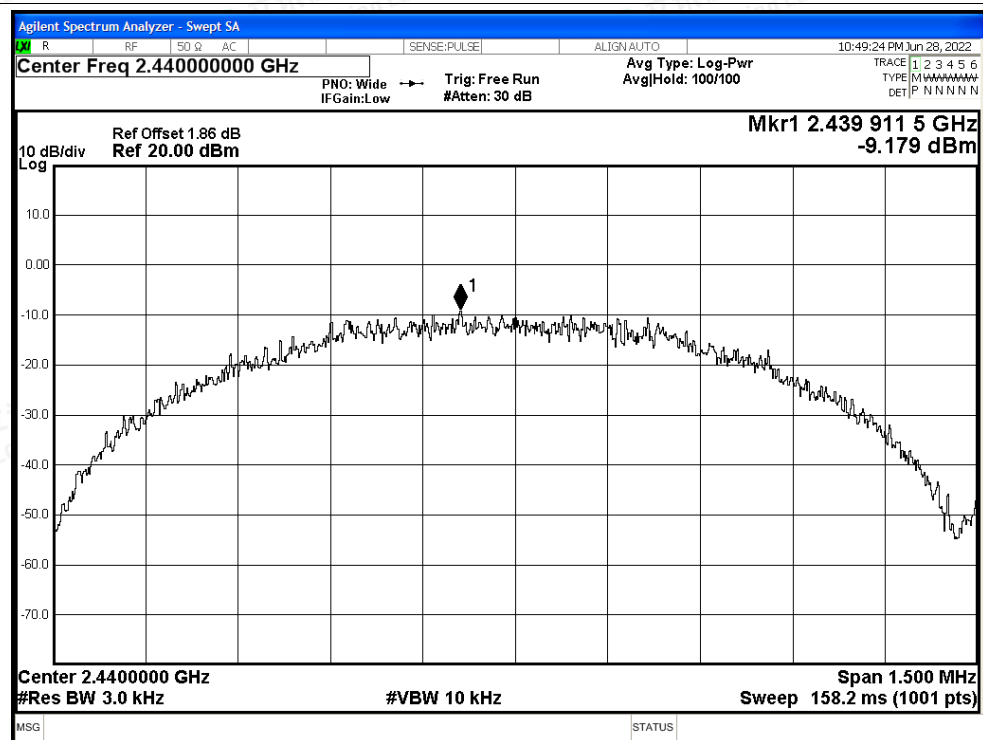


Test Graphs

PSD NVNT BLE 1M 2402MHz Ant



PSD NVNT BLE 1M 2440MHz Ant

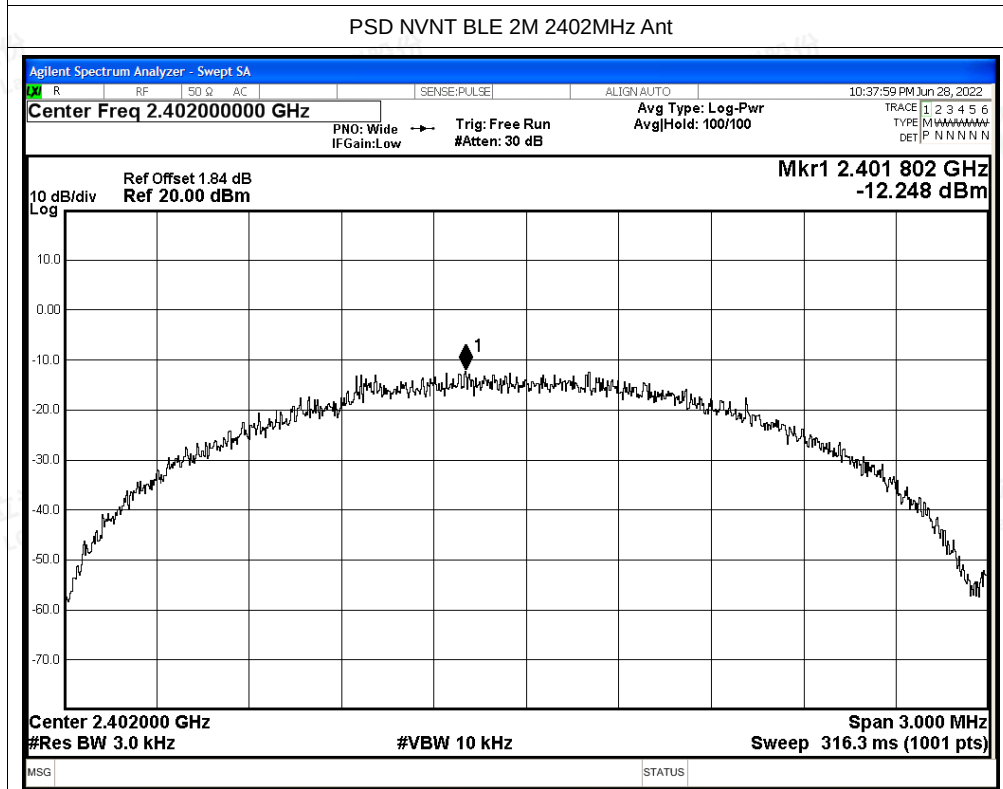
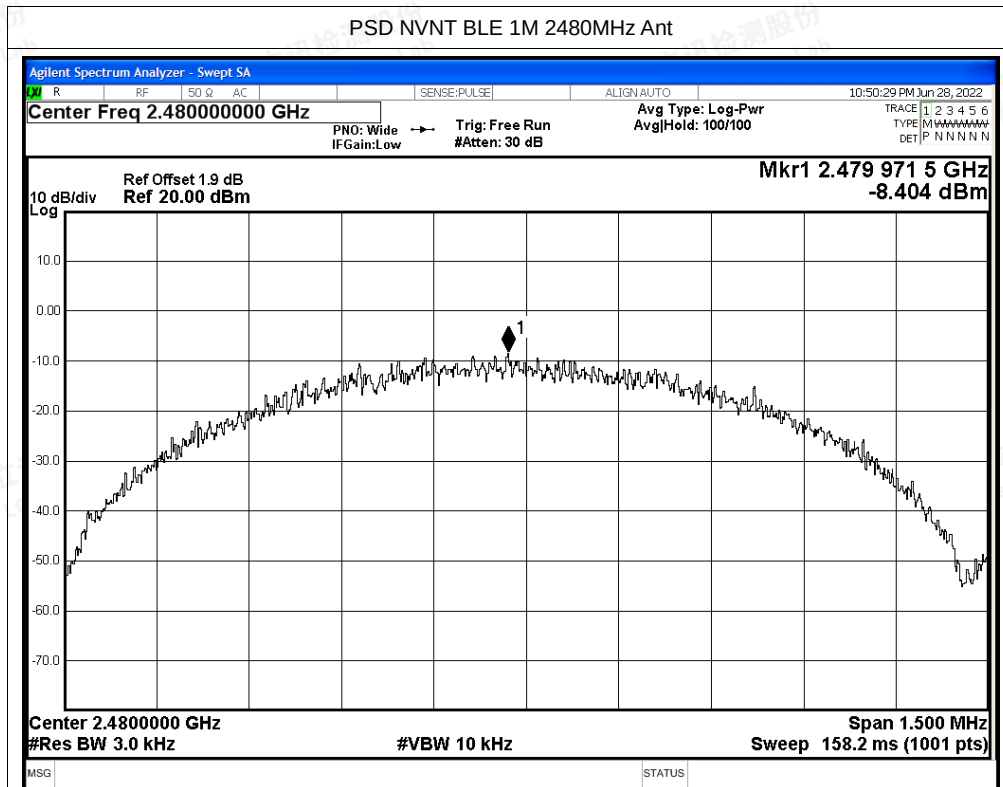


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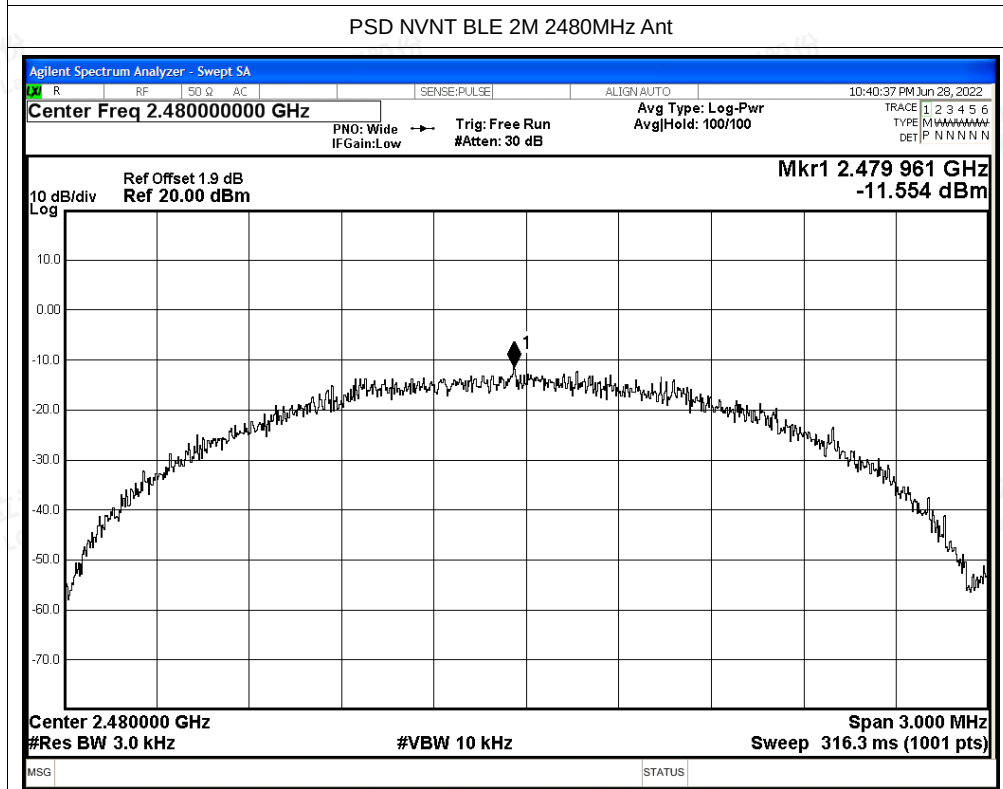
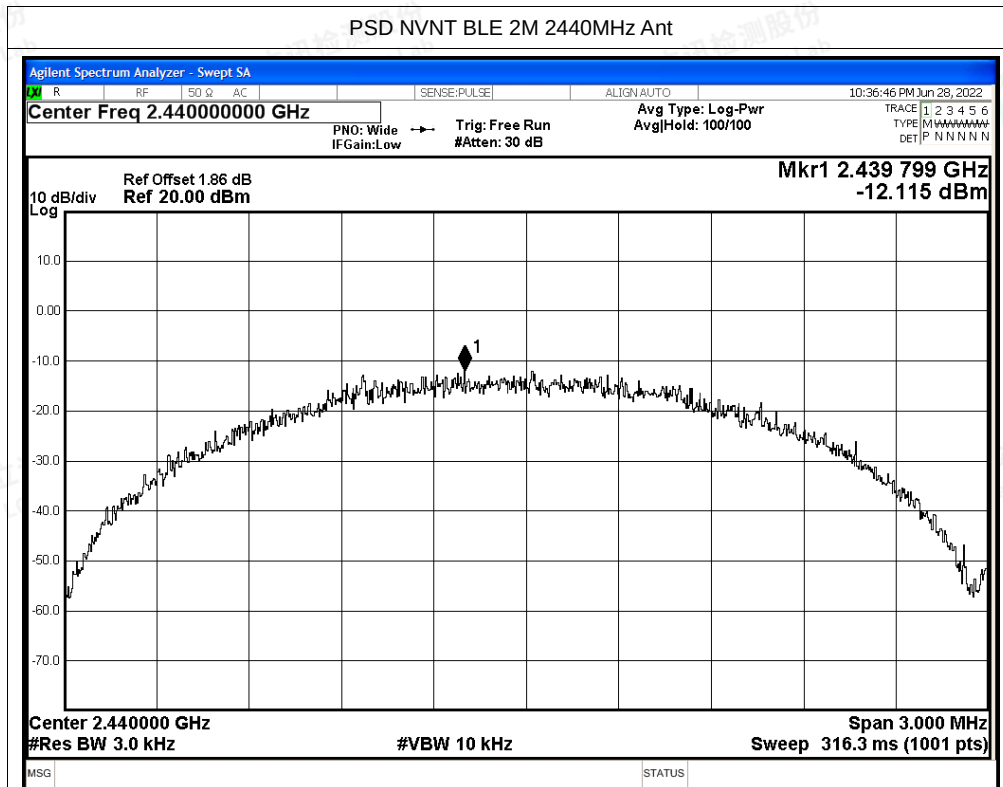


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A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant	-57.31	-20	Pass
NVNT	BLE 1M	2480	Ant	-58.4	-20	Pass
NVNT	BLE 2M	2402	Ant	-32.53	-20	Pass
NVNT	BLE 2M	2480	Ant	-55.93	-20	Pass



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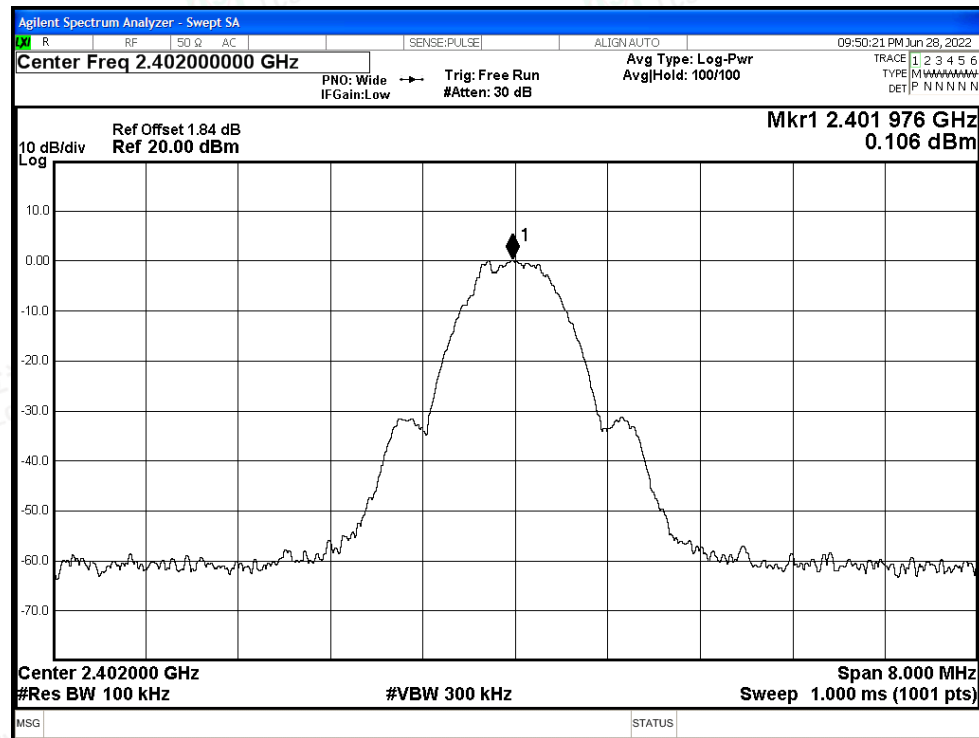
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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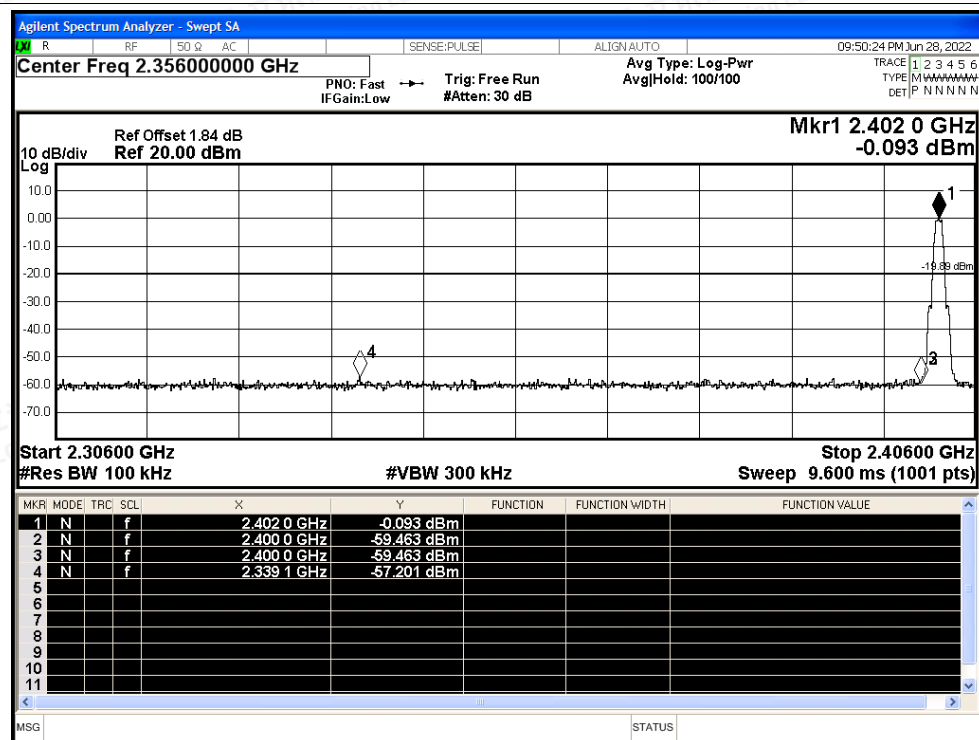


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant Ref



Band Edge NVNT BLE 1M 2402MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

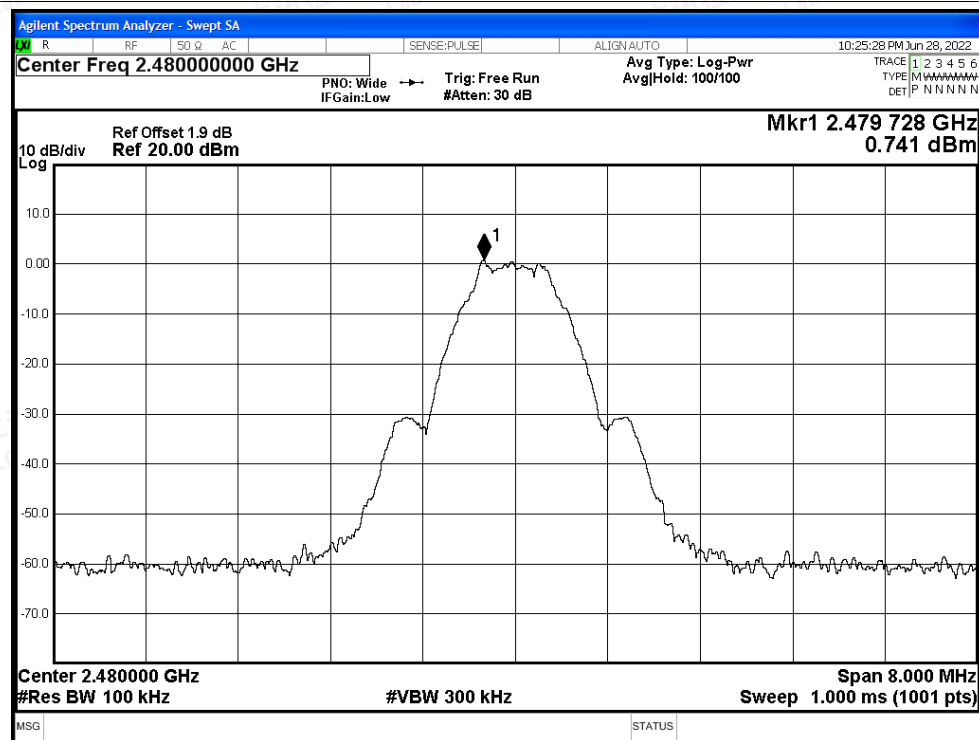
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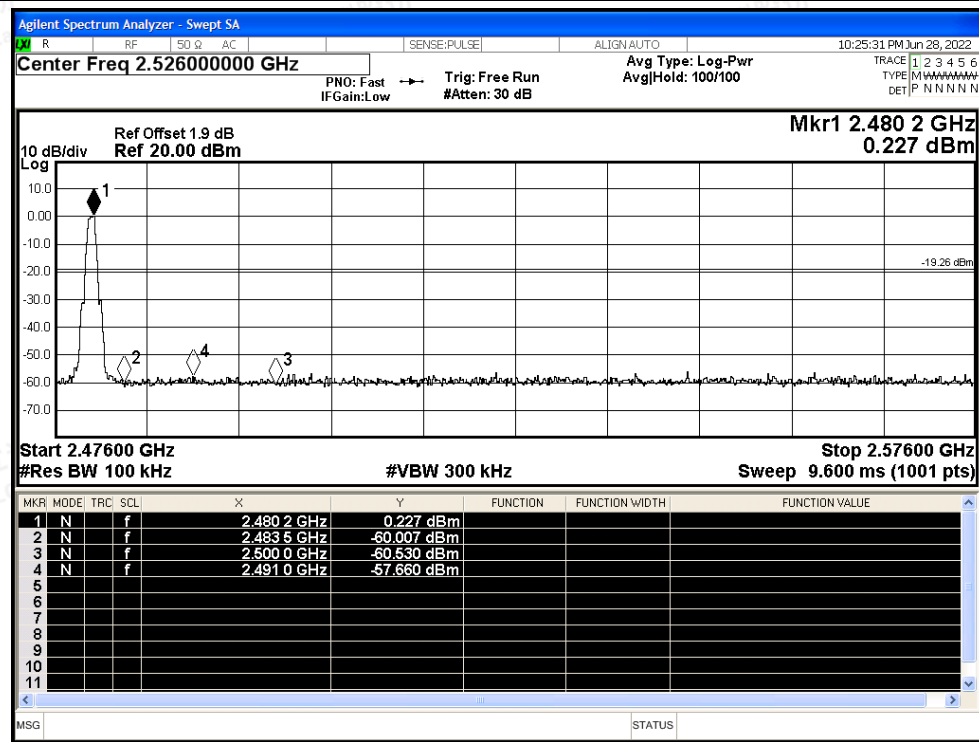
Scan code to check authenticity



Band Edge NVNT BLE 1M 2480MHz Ant Ref



Band Edge NVNT BLE 1M 2480MHz Ant Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

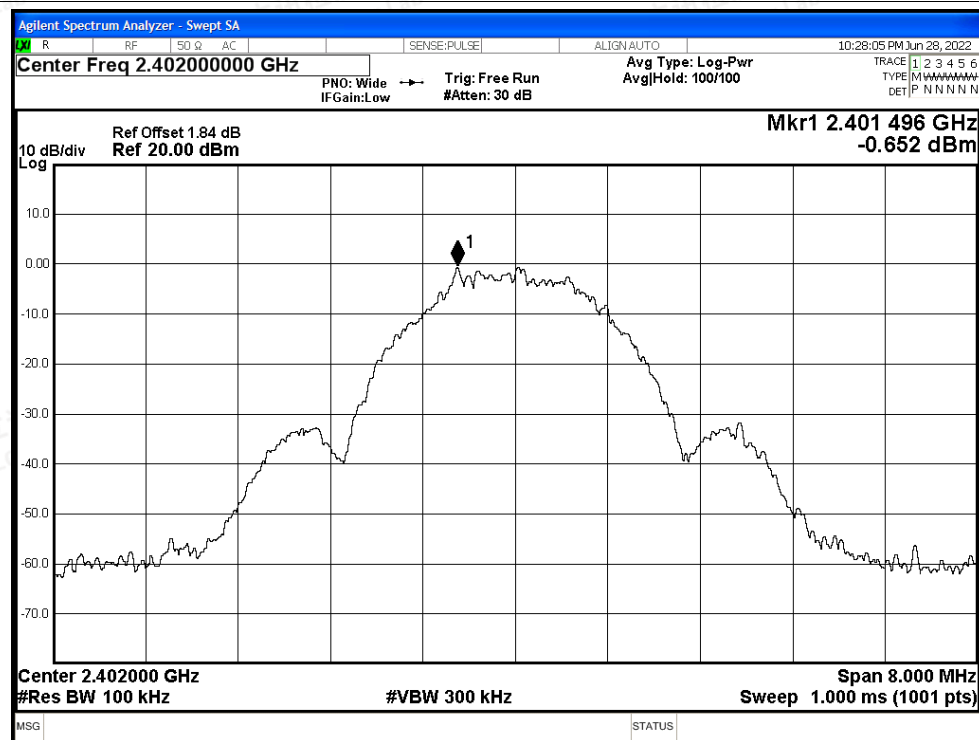
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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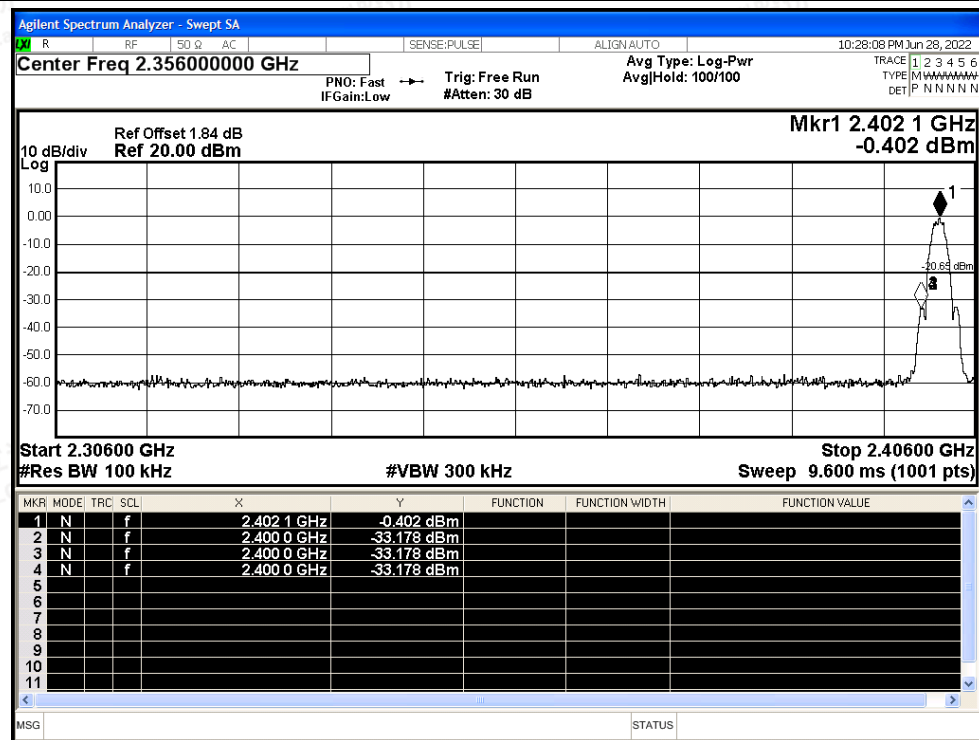
Scan code to check authenticity



Band Edge NVNT BLE 2M 2402MHz Ant Ref



Band Edge NVNT BLE 2M 2402MHz Ant Emission



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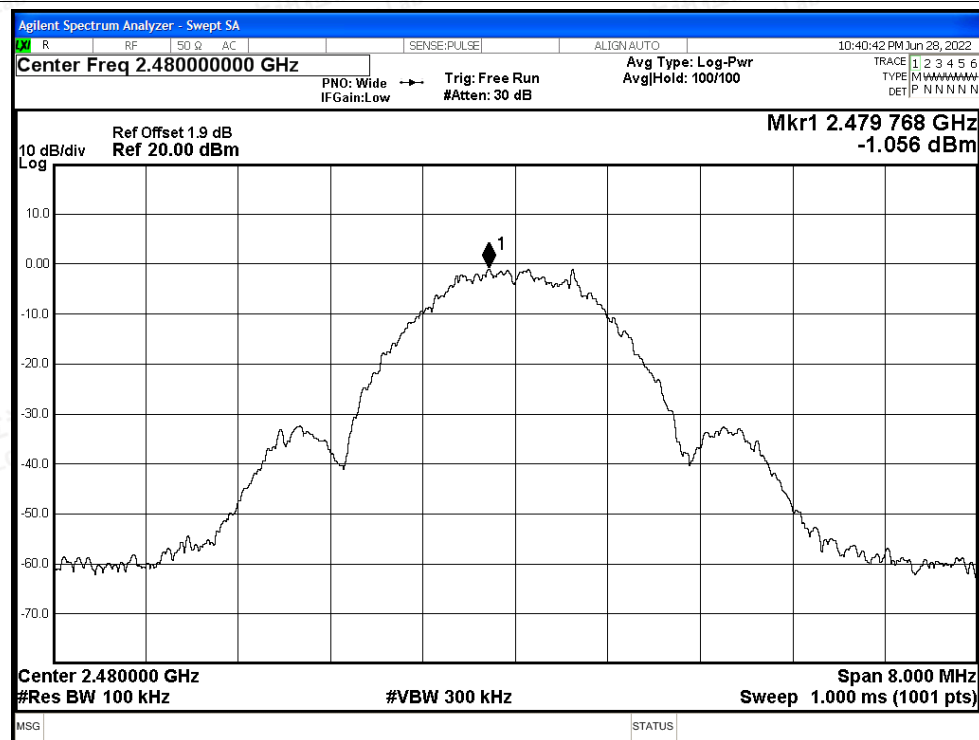
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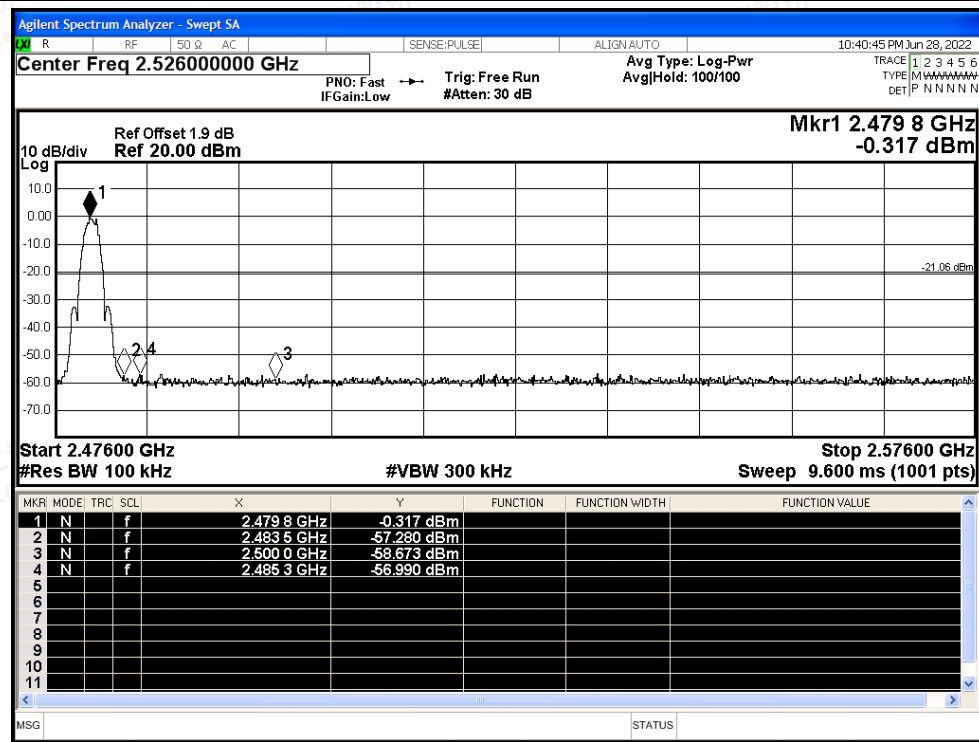
Scan code to check authenticity



Band Edge NVNT BLE 2M 2480MHz Ant Ref



Band Edge NVNT BLE 2M 2480MHz Ant 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	Ant	-51.9	-20	Pass
NVNT	BLE 1M	2440	Ant	-51	-20	Pass
NVNT	BLE 1M	2480	Ant	-55.58	-20	Pass
NVNT	BLE 2M	2402	Ant	-49.02	-20	Pass
NVNT	BLE 2M	2440	Ant	-50.96	-20	Pass
NVNT	BLE 2M	2480	Ant	-54.83	-20	Pass



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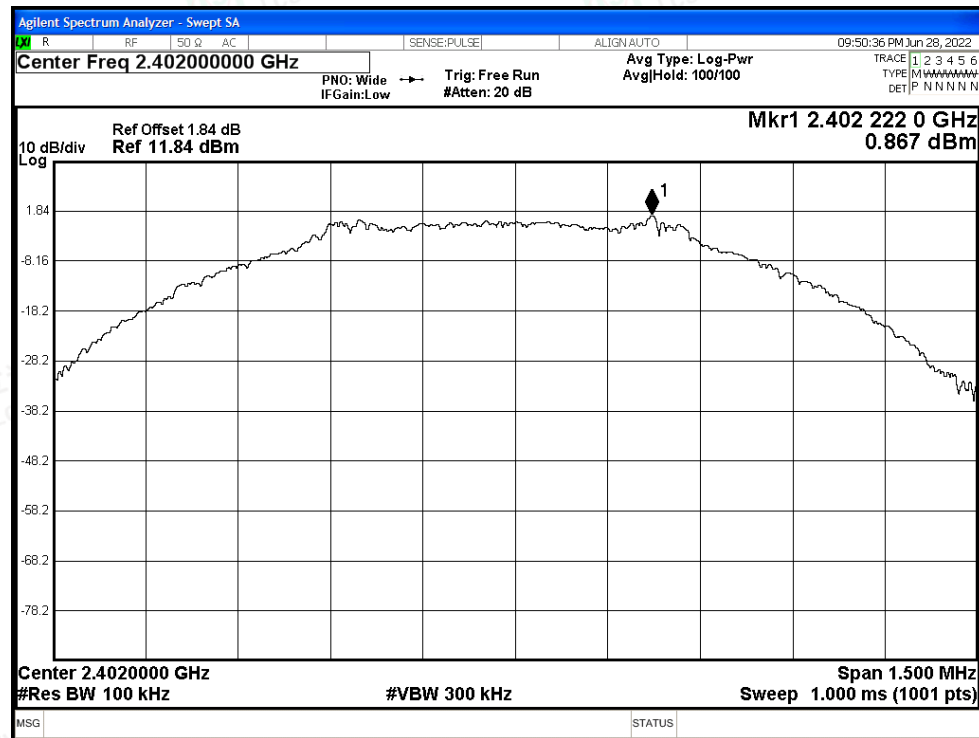
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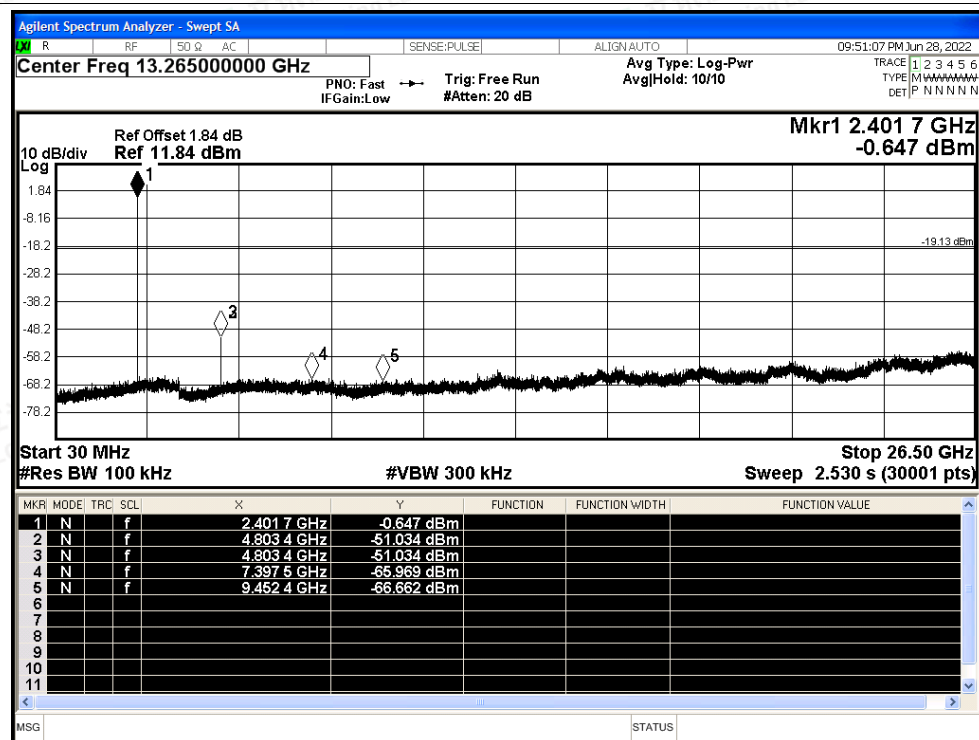


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant Ref



Tx. Spurious NVNT BLE 1M 2402MHz Ant Emission



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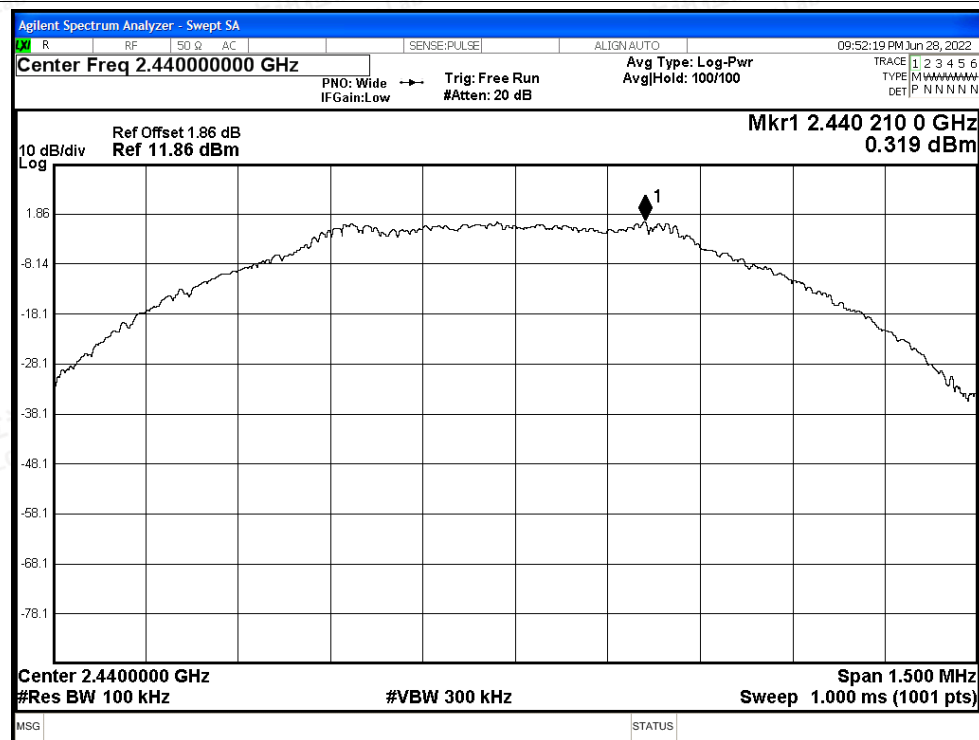
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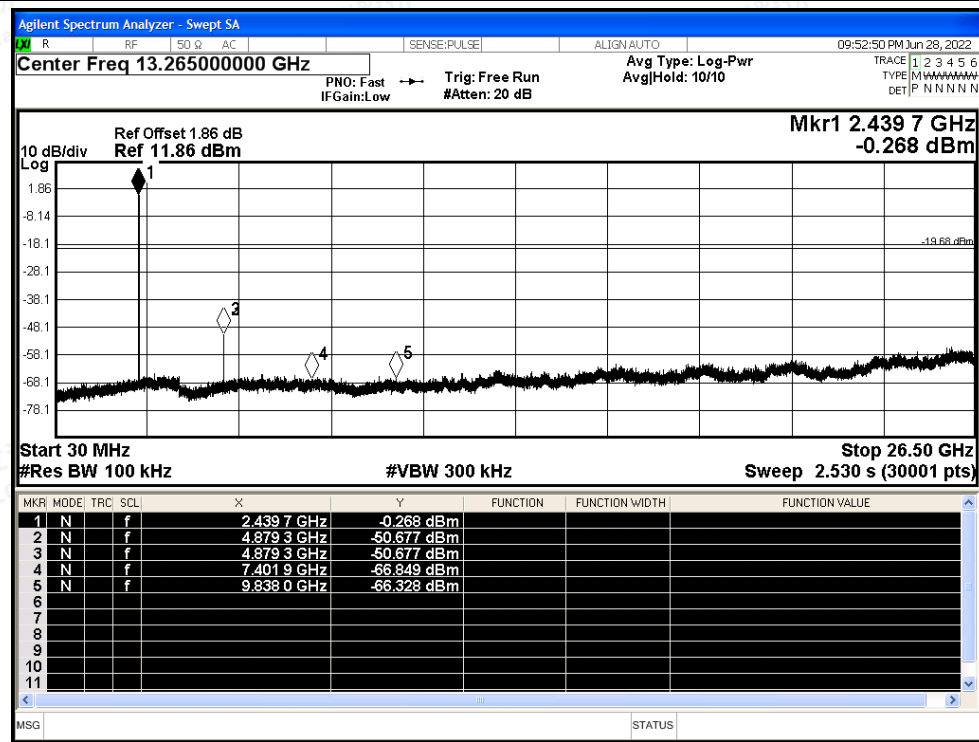
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2440MHz Ant Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant Emission



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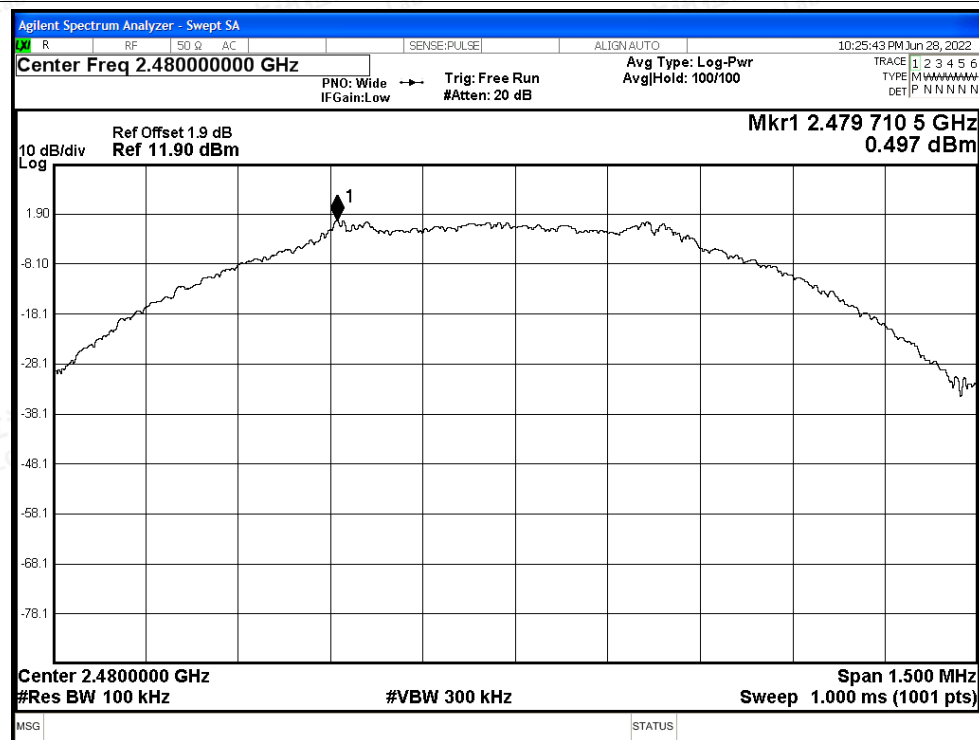
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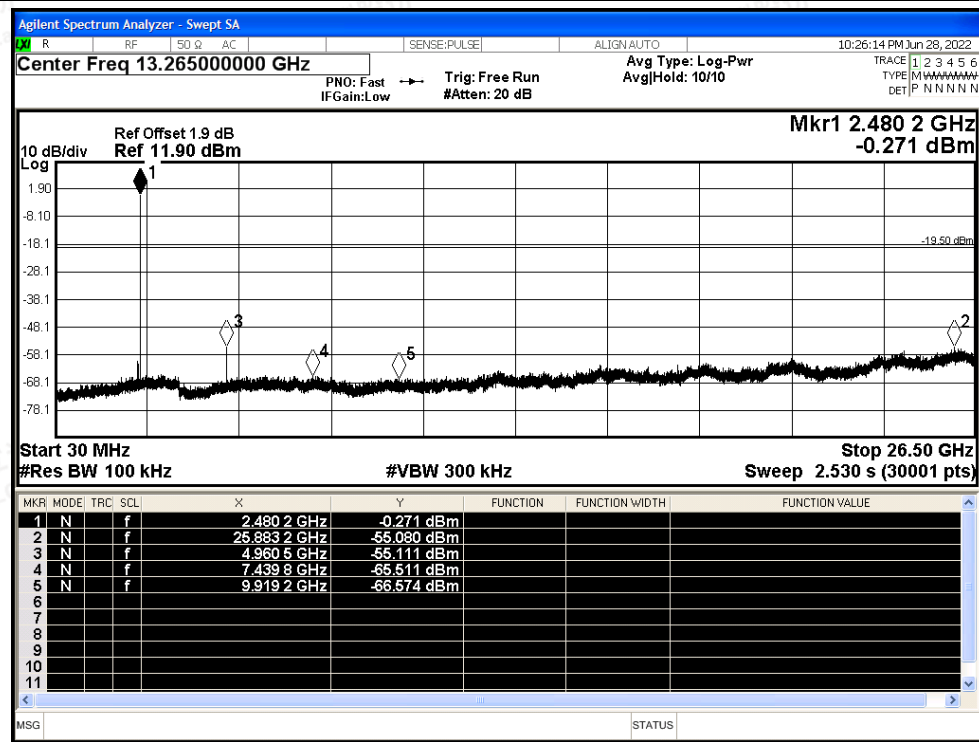
Scan code to check authenticity



Tx. Spurious NVNT BLE 1M 2480MHz Ant Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant Emission



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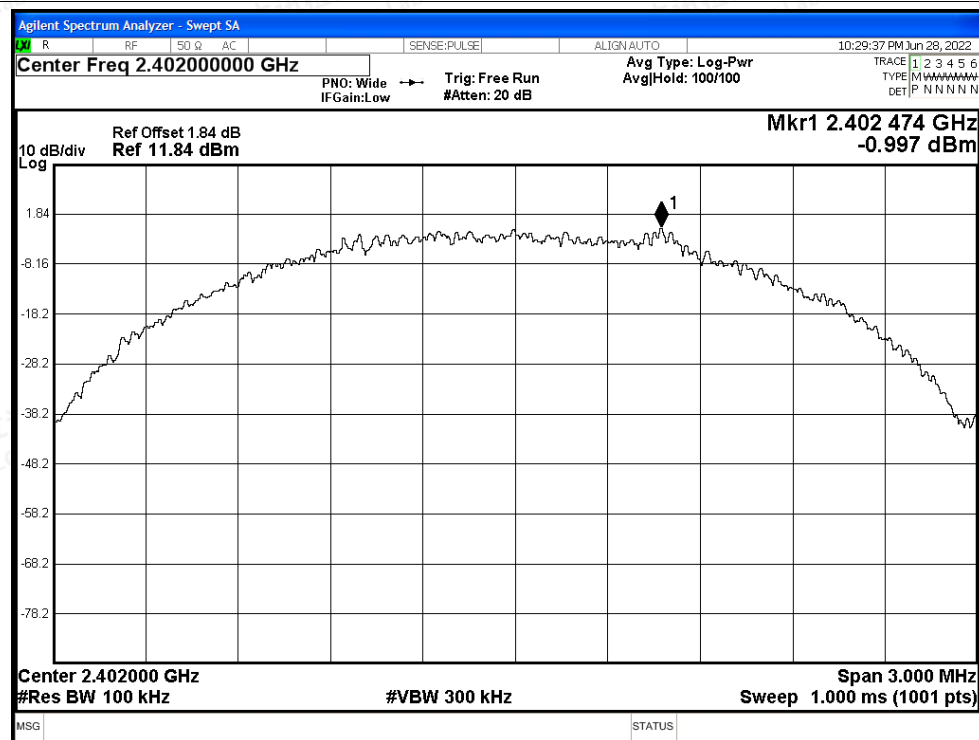
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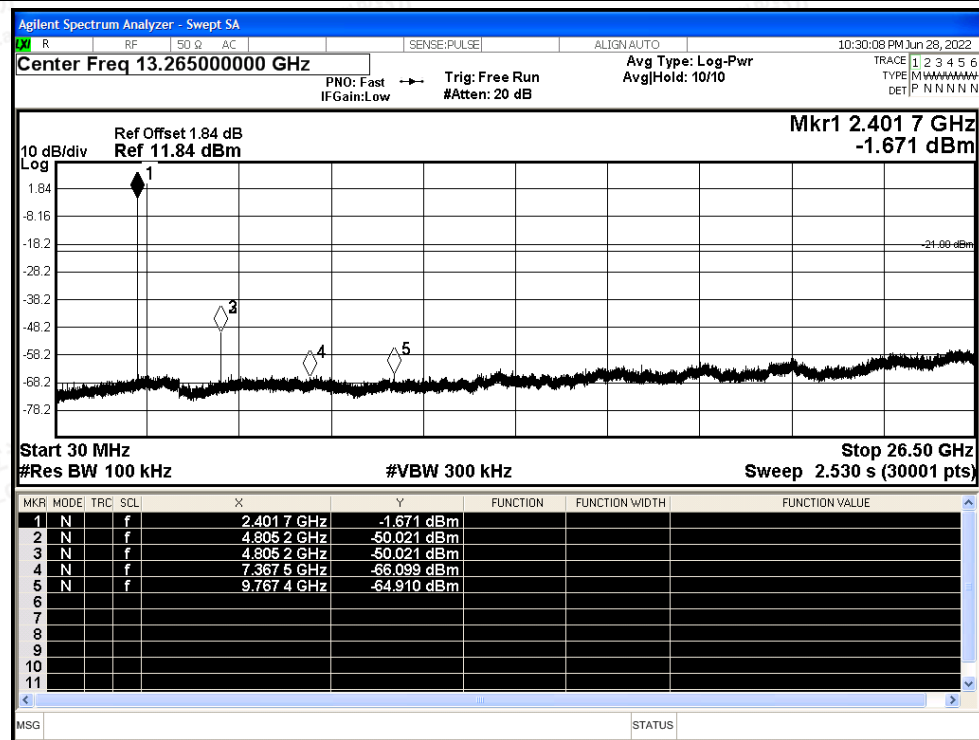
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Tx. Spurious NVNT BLE 2M 2402MHz Ant Ref



Tx. Spurious NVNT BLE 2M 2402MHz Ant Emission



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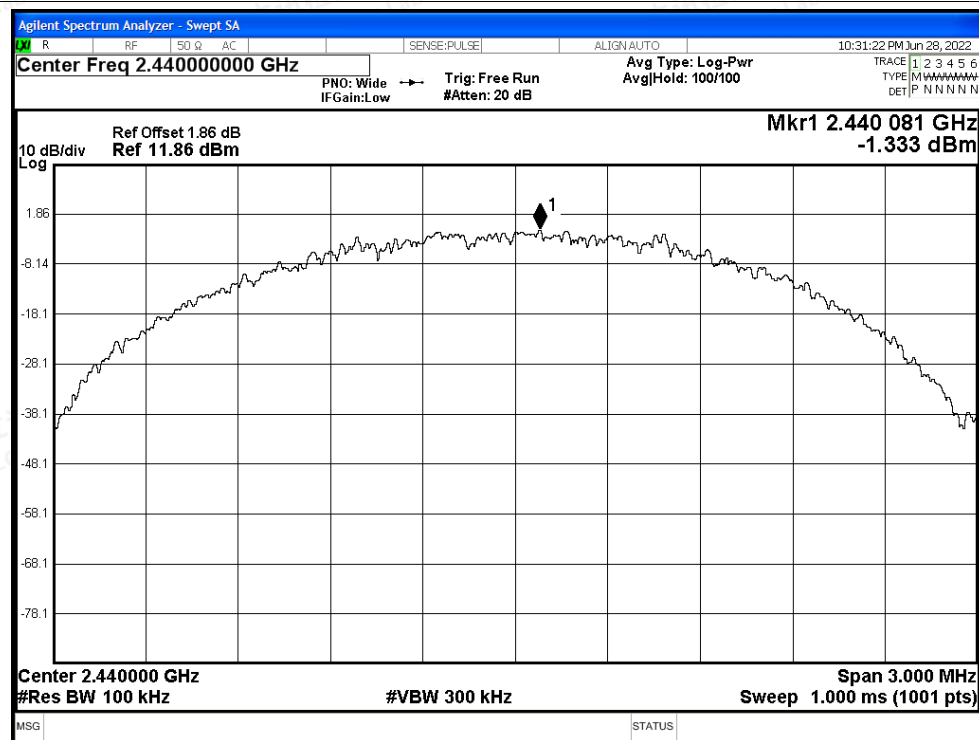
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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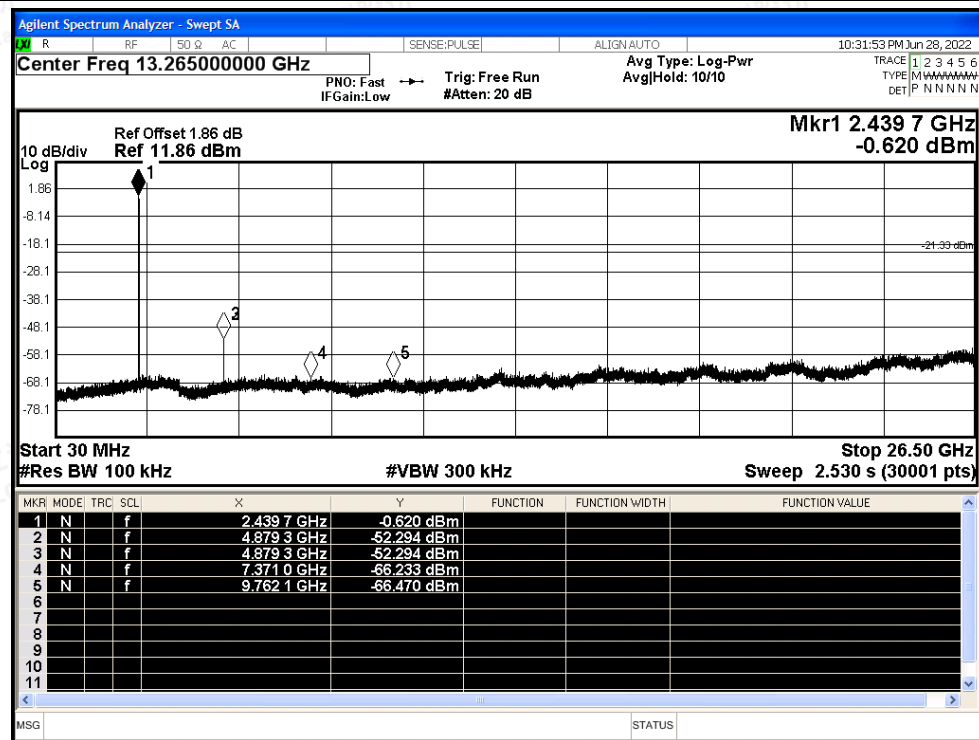
Scan code to check authenticity



Tx. Spurious NVNT BLE 2M 2440MHz Ant Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant Emission



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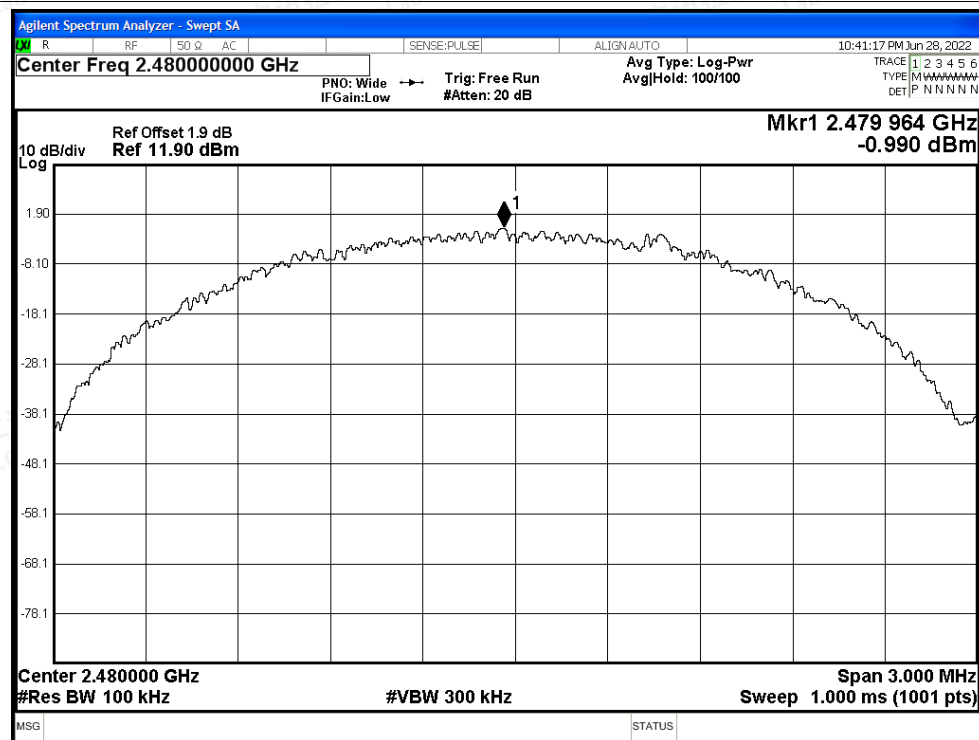
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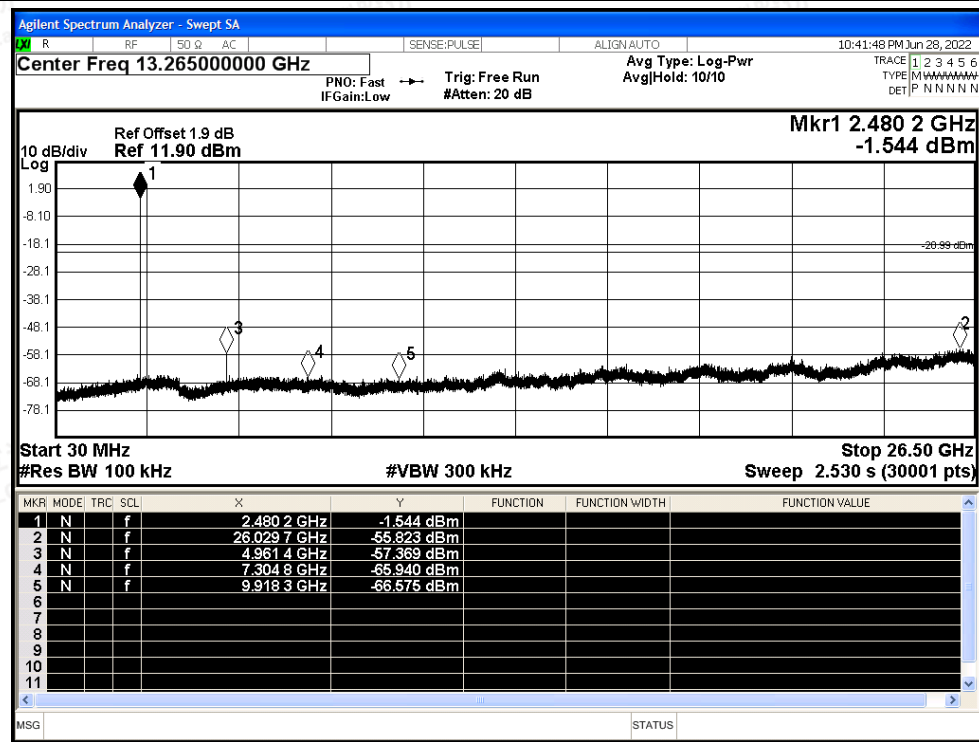
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Tx. Spurious NVNT BLE 2M 2480MHz Ant Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant Emission



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A.6 Duty Cycle

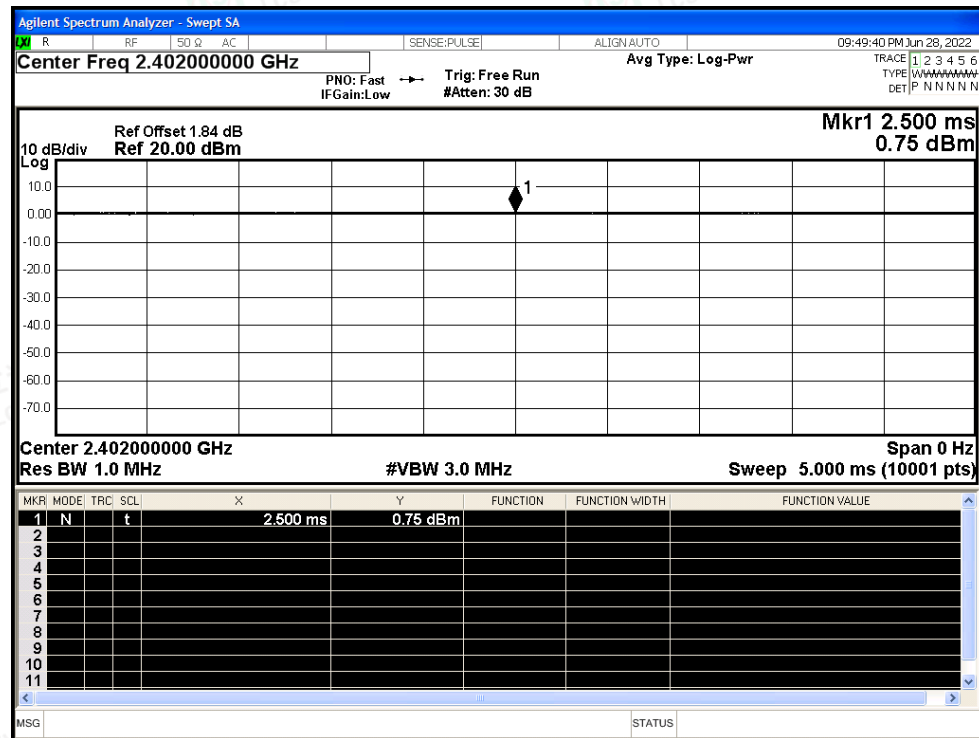
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant	100	0	0
NVNT	BLE 1M	2440	Ant	100	0	0
NVNT	BLE 1M	2480	Ant	100	0	0
NVNT	BLE 2M	2402	Ant	100	0	0
NVNT	BLE 2M	2440	Ant	100	0	0
NVNT	BLE 2M	2480	Ant	100	0	0



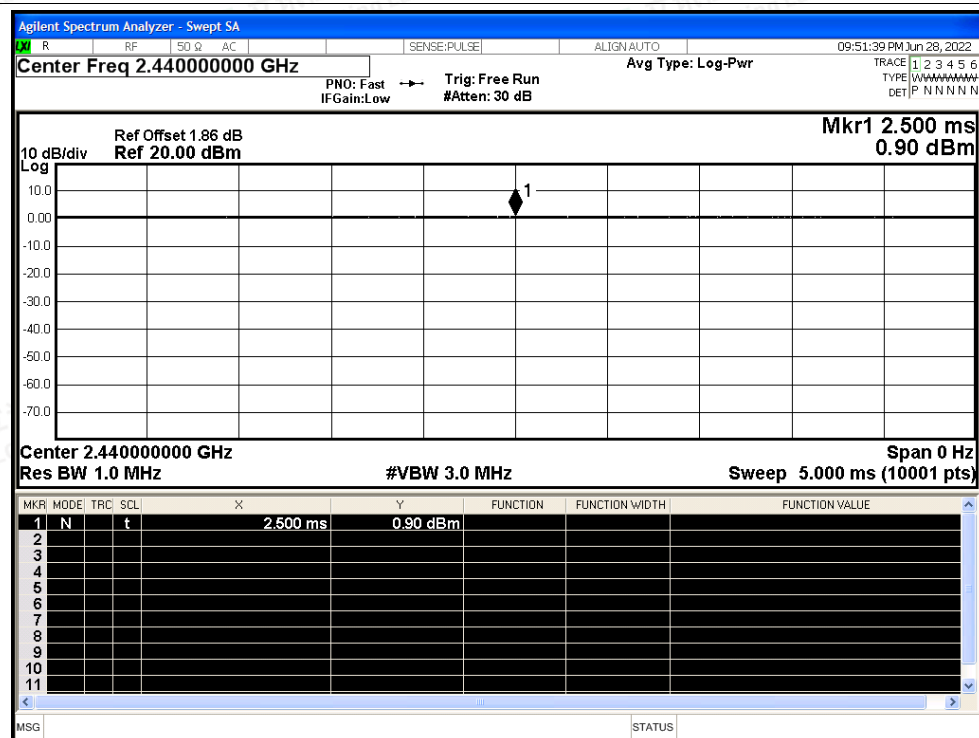


Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant



Duty Cycle NVNT BLE 1M 2440MHz Ant

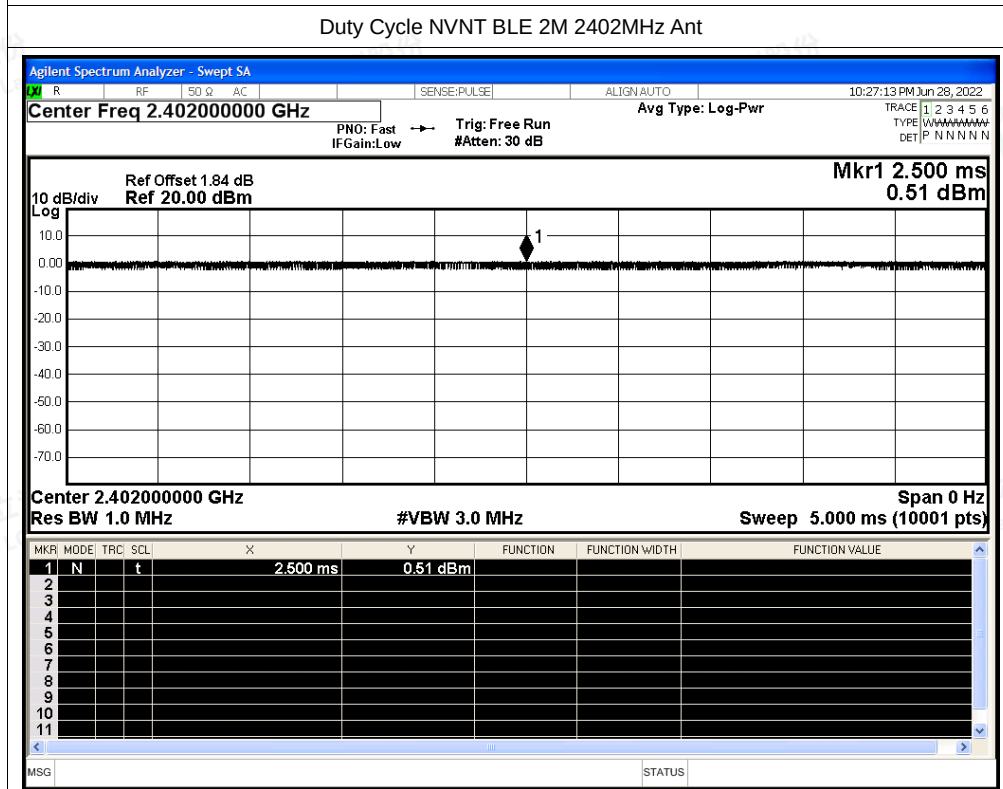
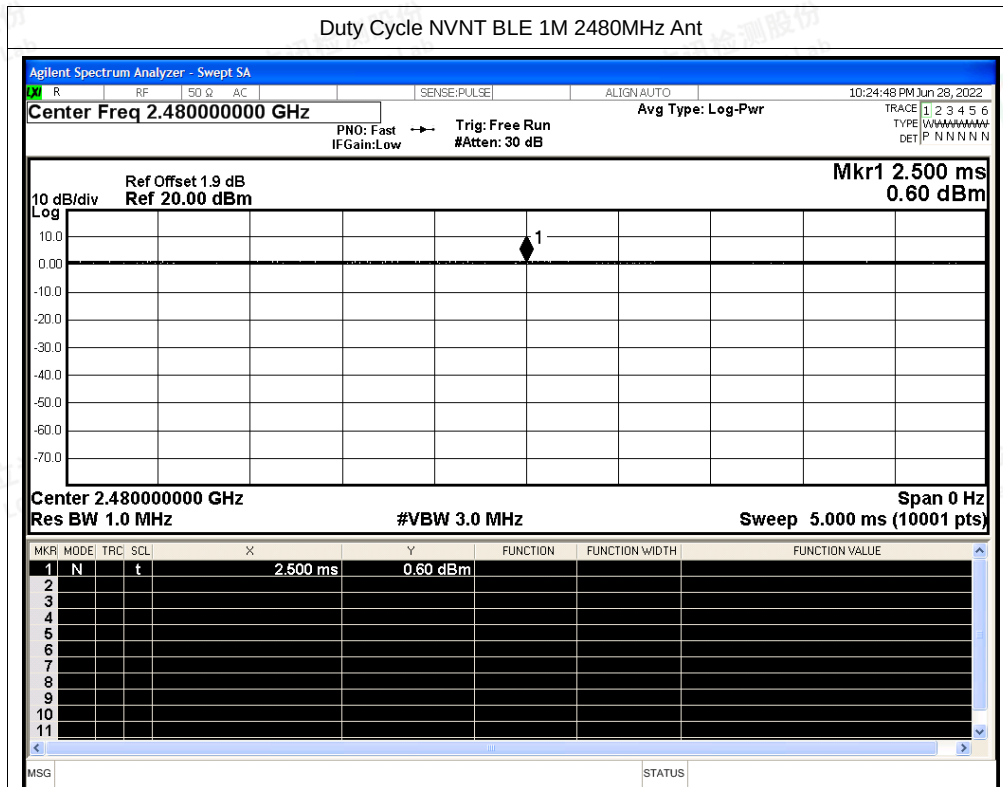


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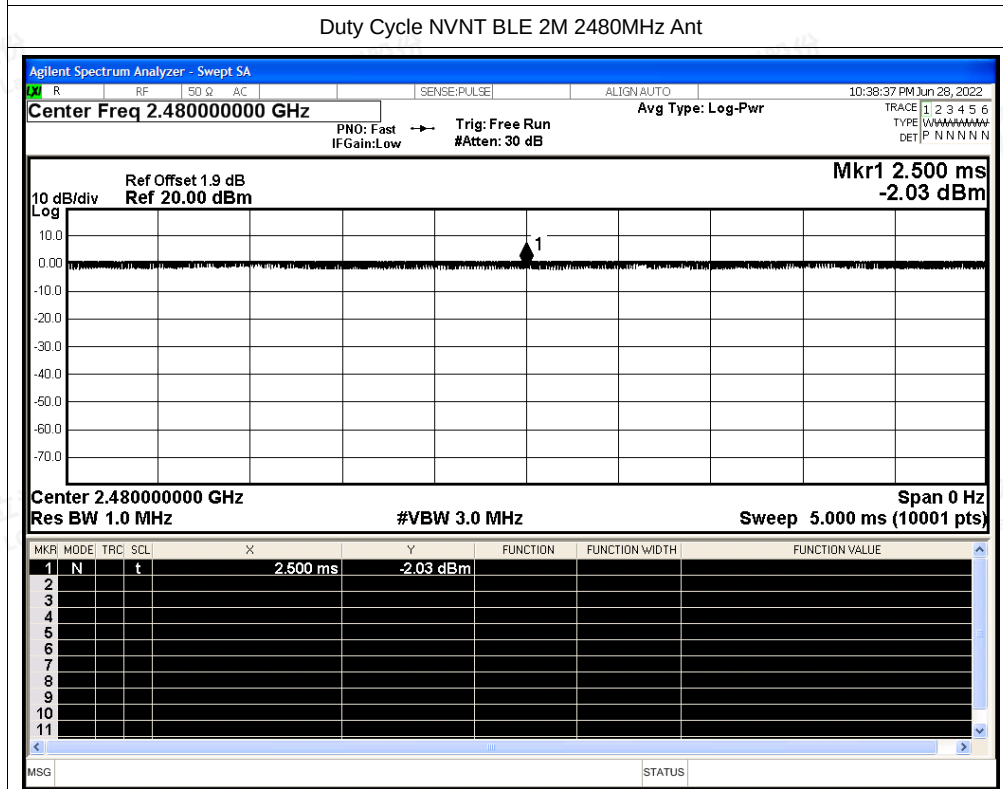
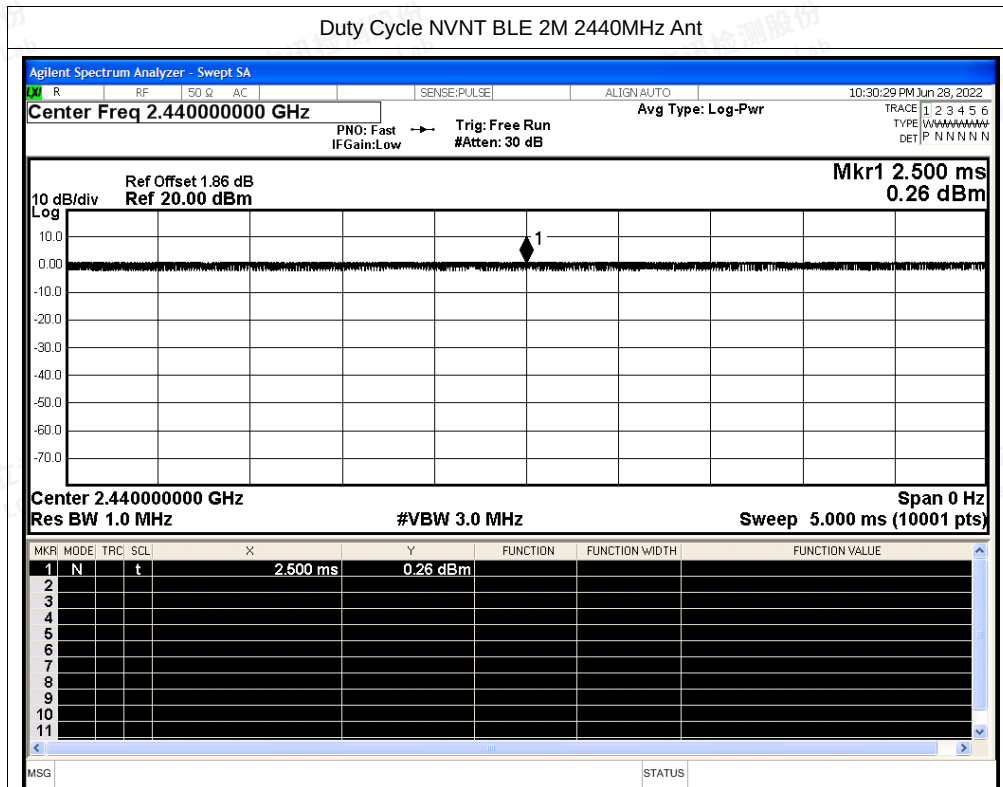


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A.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant	2310	-50.28	2	46.98	Peak	74	Pass
NVNT	BLE 1M	2402	Ant	2310	-59.8	2	37.46	Average	54	Pass
NVNT	BLE 1M	2402	Ant	2379.504	-47.82	2	49.44	Peak	74	Pass
NVNT	BLE 1M	2402	Ant	2387.664	-59.32	2	37.94	Average	54	Pass
NVNT	BLE 1M	2402	Ant	2390	-49.26	2	48	Peak	74	Pass
NVNT	BLE 1M	2402	Ant	2390	-60.04	2	37.22	Average	54	Pass
NVNT	BLE 1M	2480	Ant	2483.5	-50.19	2	47.07	Peak	74	Pass
NVNT	BLE 1M	2480	Ant	2483.5	-59.38	2	37.88	Average	54	Pass
NVNT	BLE 1M	2480	Ant	2487.112	-47.42	2	49.84	Peak	74	Pass
NVNT	BLE 1M	2480	Ant	2485.024	-58.86	2	38.4	Average	54	Pass
NVNT	BLE 1M	2480	Ant	2500	-49.8	2	47.46	Peak	74	Pass
NVNT	BLE 1M	2480	Ant	2500	-59.36	2	37.9	Average	54	Pass
NVNT	BLE 2M	2402	Ant	2310	-50.95	2	46.31	Peak	74	Pass
NVNT	BLE 2M	2402	Ant	2310	-60.87	2	36.39	Average	54	Pass
NVNT	BLE 2M	2402	Ant	2333.136	-47.97	2	49.29	Peak	74	Pass
NVNT	BLE 2M	2402	Ant	2389.872	-60.54	2	36.72	Average	54	Pass
NVNT	BLE 2M	2402	Ant	2390	-51.24	2	46.02	Peak	74	Pass
NVNT	BLE 2M	2402	Ant	2390	-60.54	2	36.72	Average	54	Pass
NVNT	BLE 2M	2480	Ant	2483.5	-48.83	2	48.43	Peak	74	Pass
NVNT	BLE 2M	2480	Ant	2483.5	-56.98	2	40.28	Average	54	Pass
NVNT	BLE 2M	2480	Ant	2498.152	-47.19	2	50.07	Peak	74	Pass
NVNT	BLE 2M	2480	Ant	2483.512	-56.98	2	40.28	Average	54	Pass
NVNT	BLE 2M	2480	Ant	2500	-51.2	2	46.06	Peak	74	Pass
NVNT	BLE 2M	2480	Ant	2500	-60.15	2	37.11	Average	54	Pass



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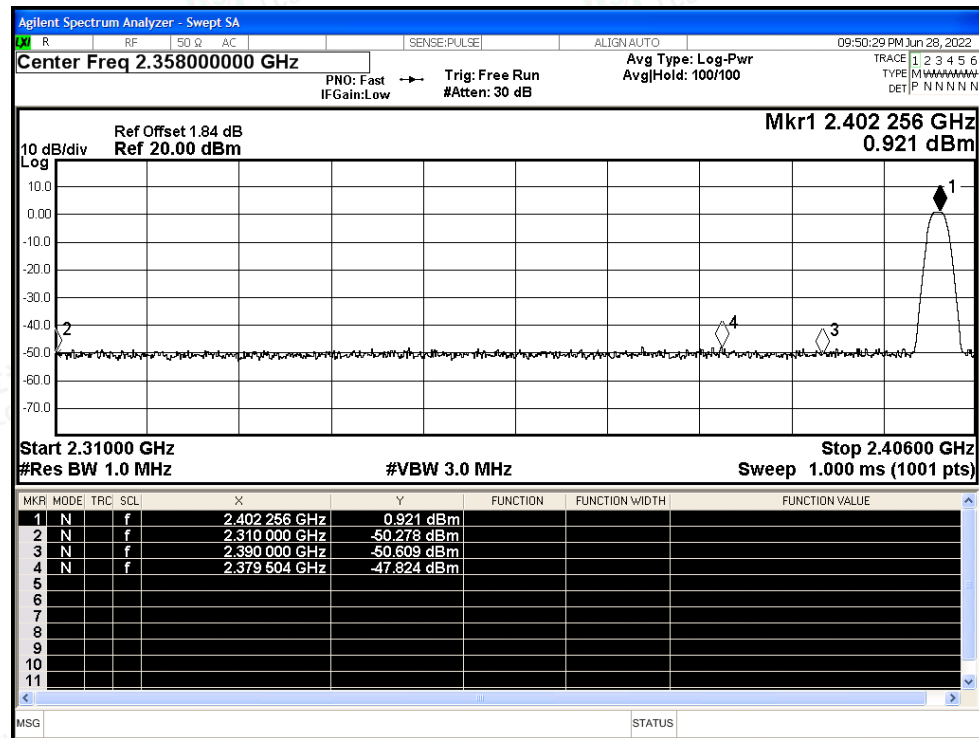
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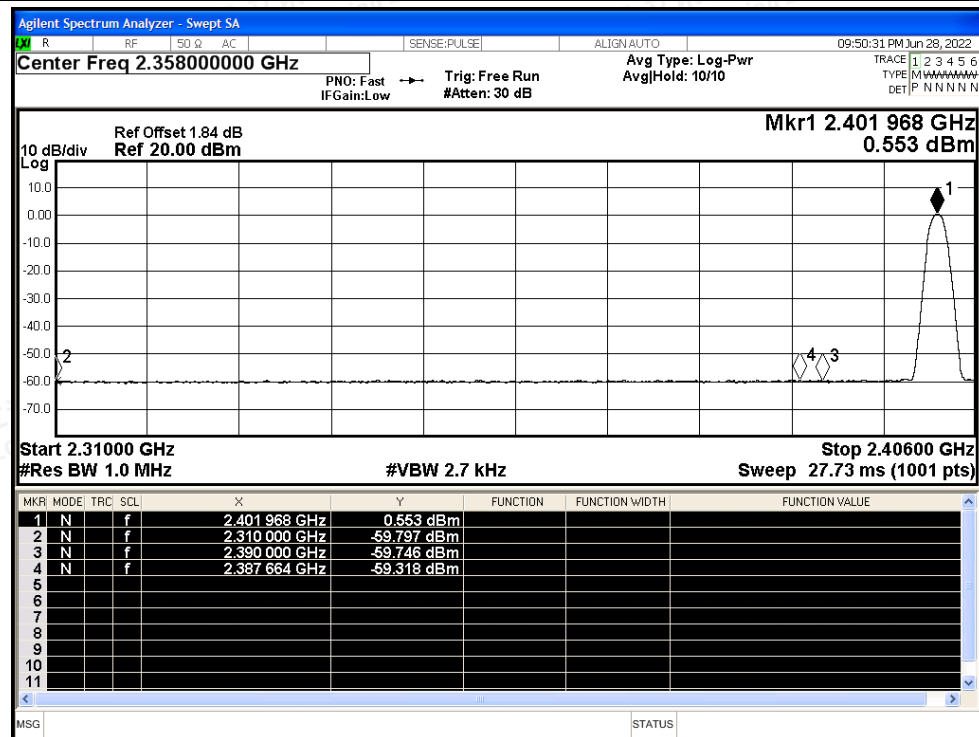


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant Peak



Restrict Band NVNT BLE 1M 2402MHz Ant Average



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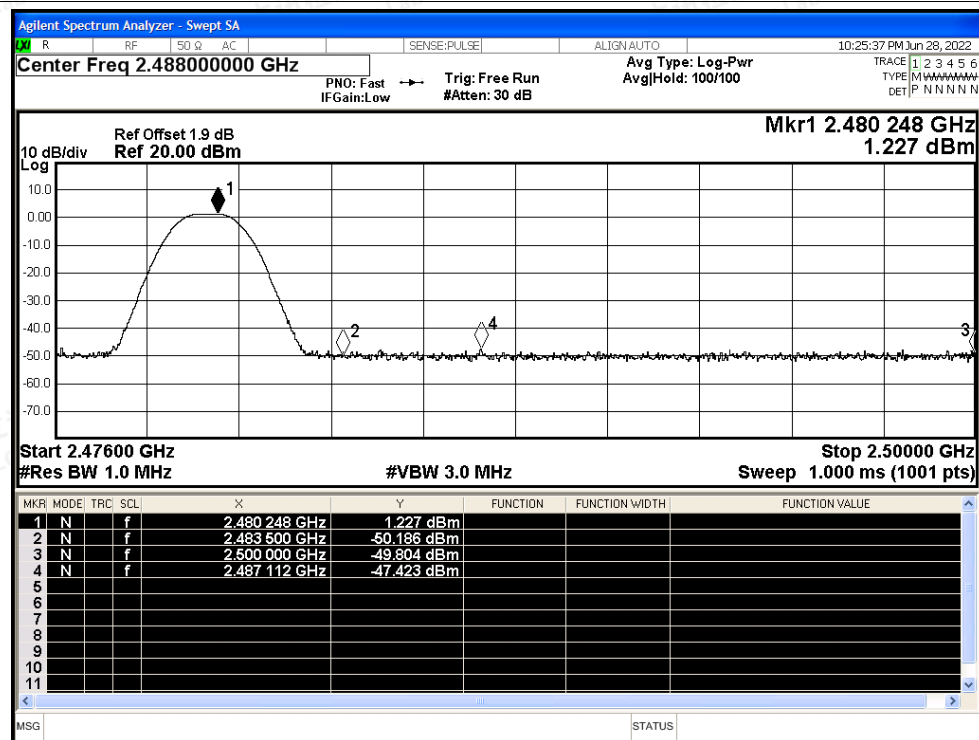
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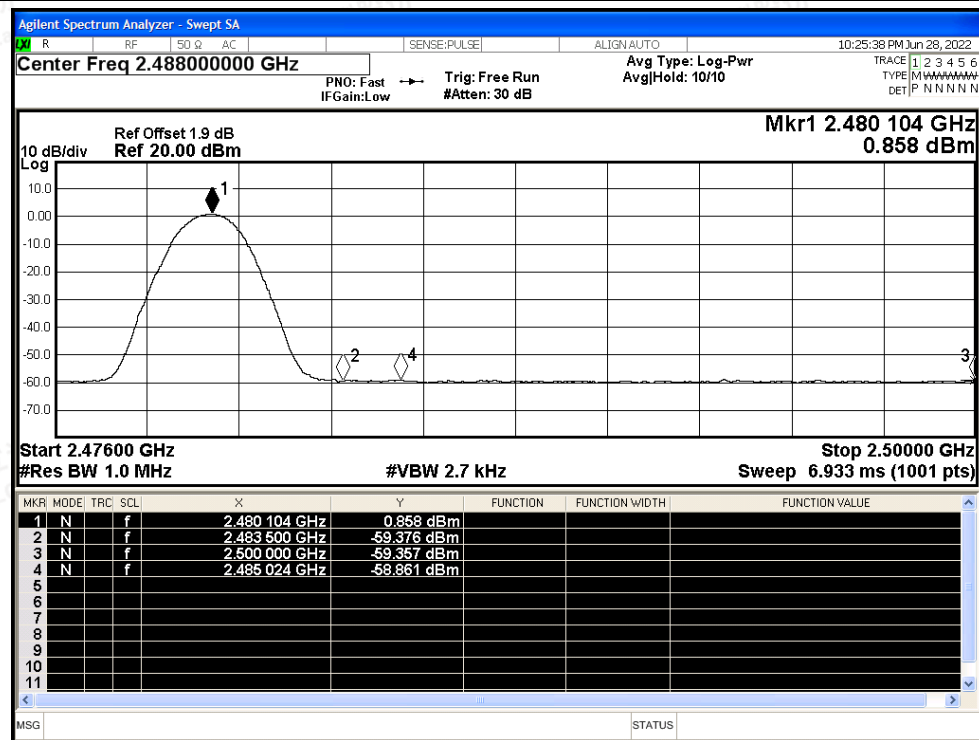
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Restrict Band NVNT BLE 1M 2480MHz Ant Peak



Restrict Band NVNT BLE 1M 2480MHz Ant Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

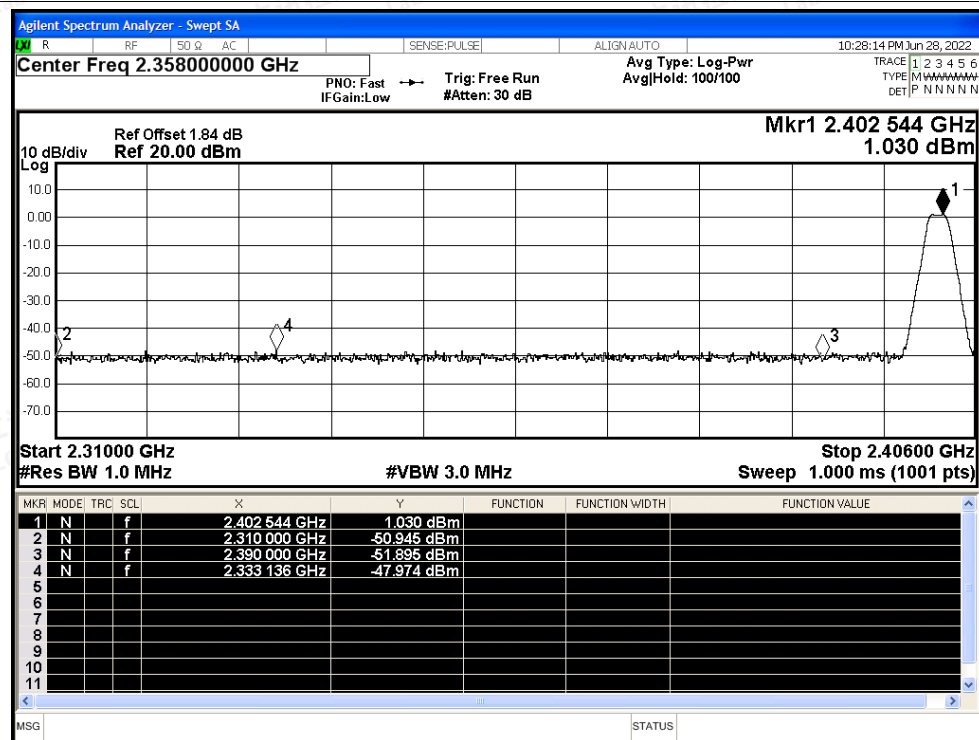
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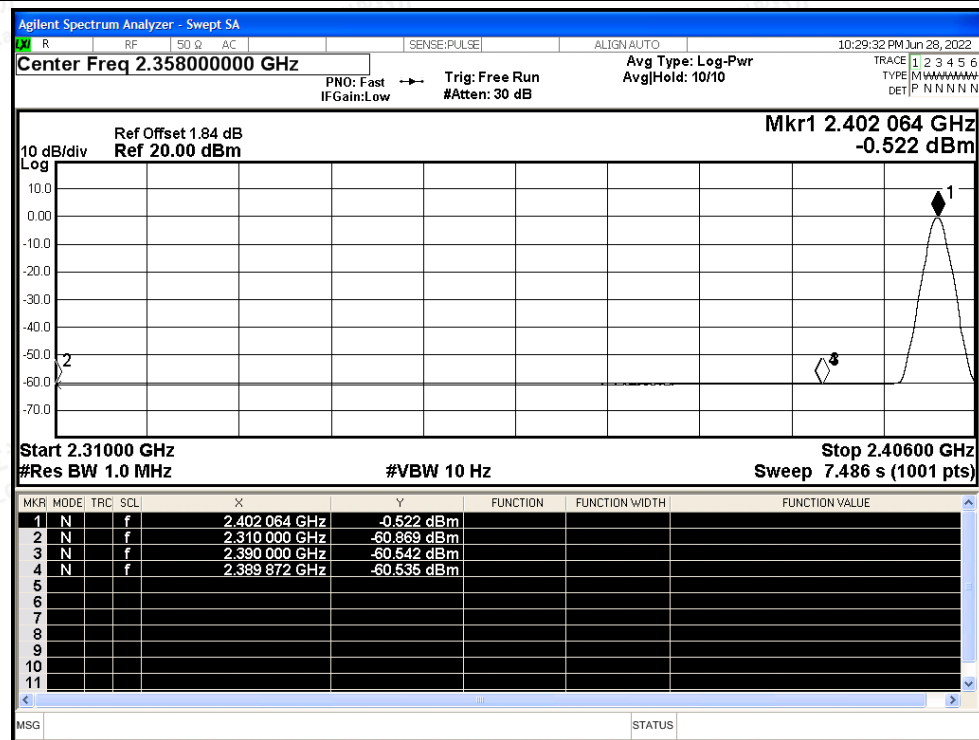
Scan code to check authenticity



Restrict Band NVNT BLE 2M 2402MHz Ant Peak



Restrict Band NVNT BLE 2M 2402MHz Ant Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

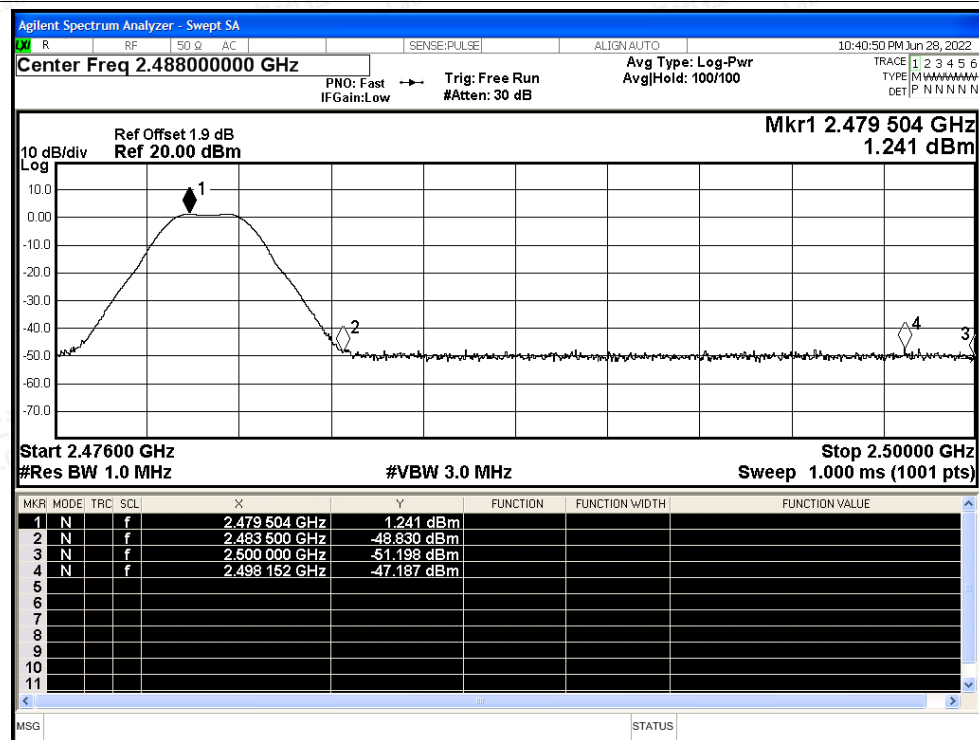
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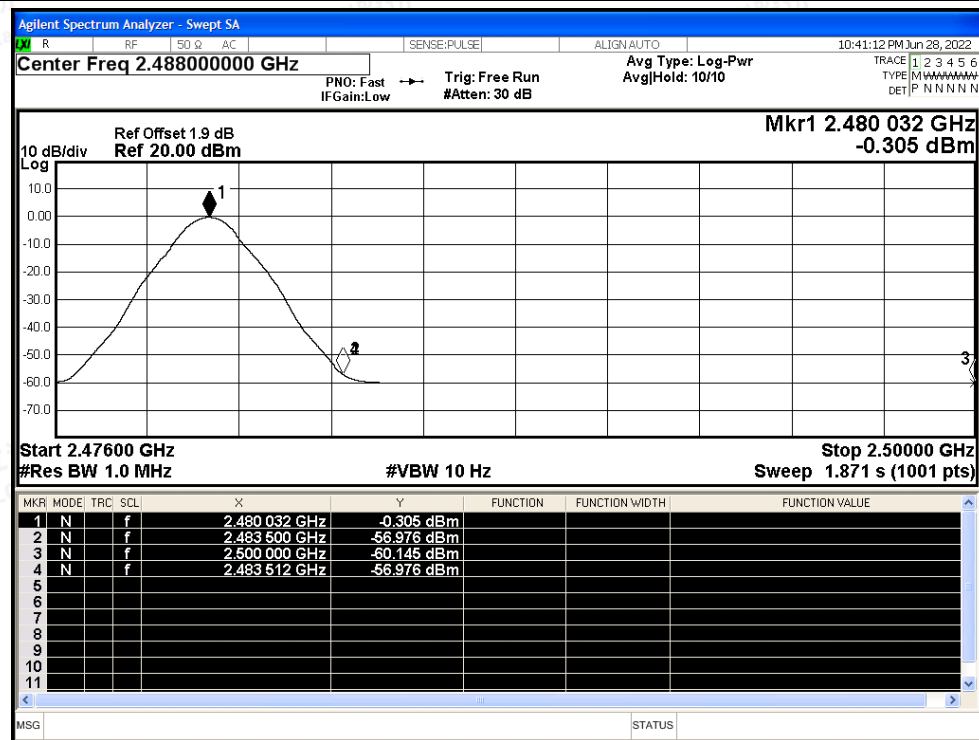
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Restrict Band NVNT BLE 2M 2480MHz Ant Peak



Restrict Band NVNT BLE 2M 2480MHz Ant Average



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