



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: INTEGRATED AMPLIFIER

Test Model: OMNIA

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Bill Zhu
Supervised by:	 Li Huan





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.007	0	Pass
NVNT	1-DH5	2441	Ant1	1.019	0	Pass
NVNT	1-DH5	2480	Ant1	0.969	0	Pass
NVNT	2-DH5	2402	Ant1	1.288	0	Pass
NVNT	2-DH5	2441	Ant1	1.282	0	Pass
NVNT	2-DH5	2480	Ant1	1.282	0	Pass
NVNT	3-DH5	2402	Ant1	1.285	0	Pass
NVNT	3-DH5	2441	Ant1	1.284	0	Pass
NVNT	3-DH5	2480	Ant1	1.285	0	Pass



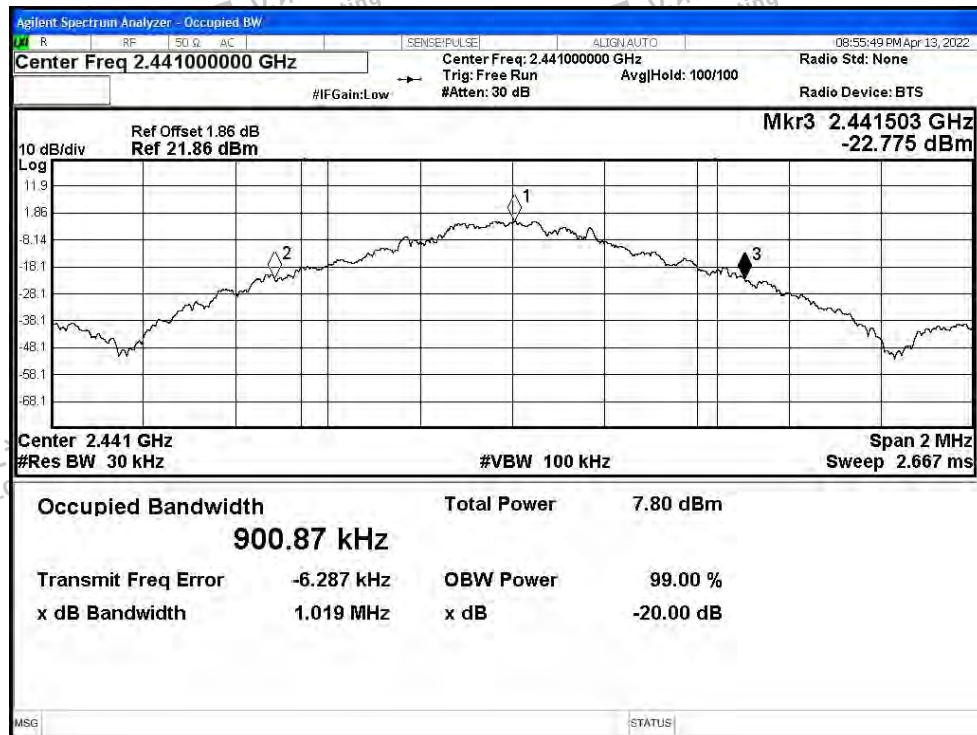


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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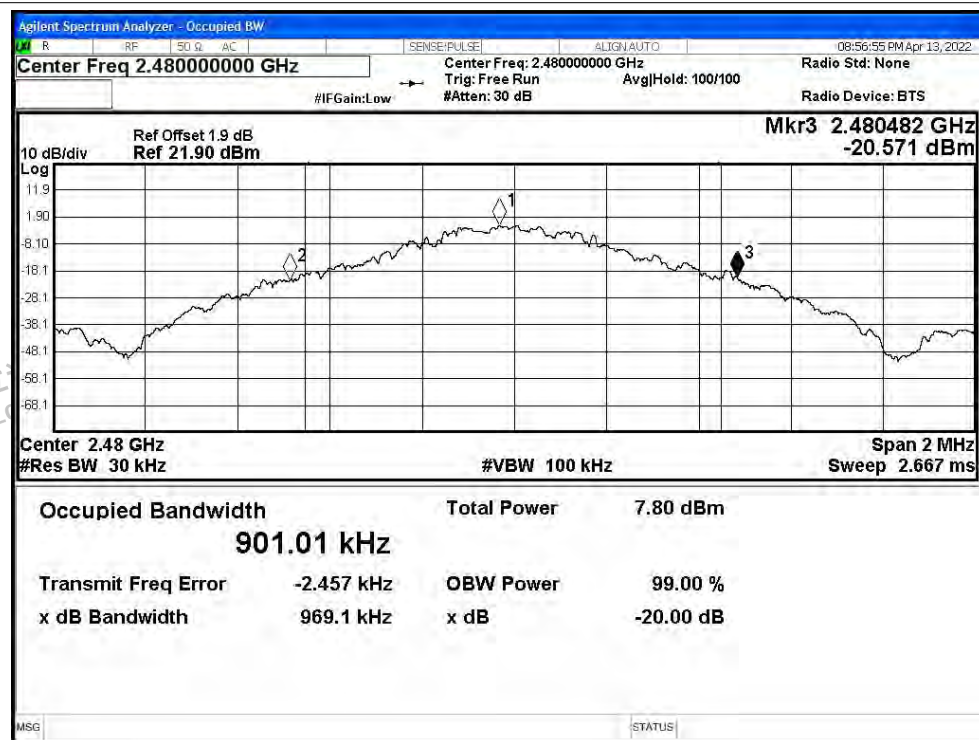
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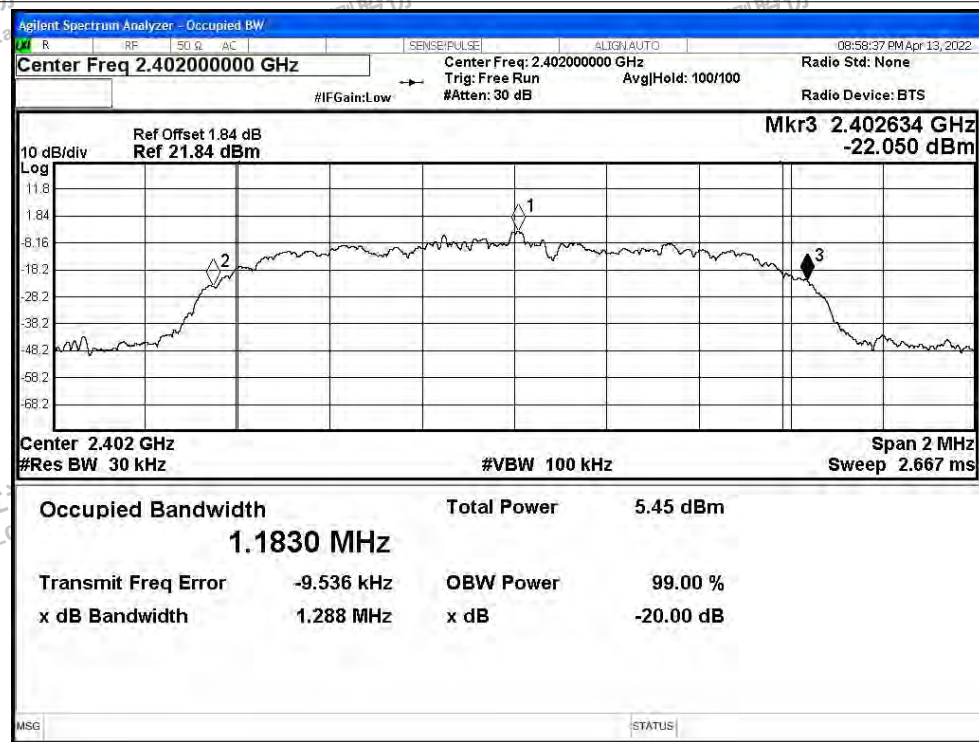
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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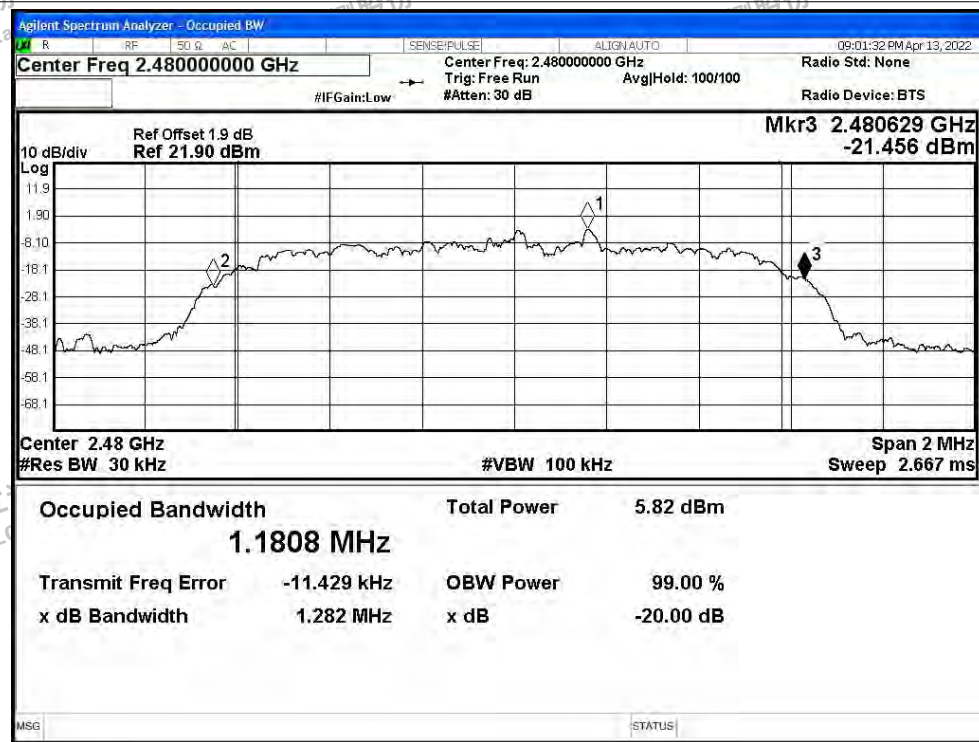
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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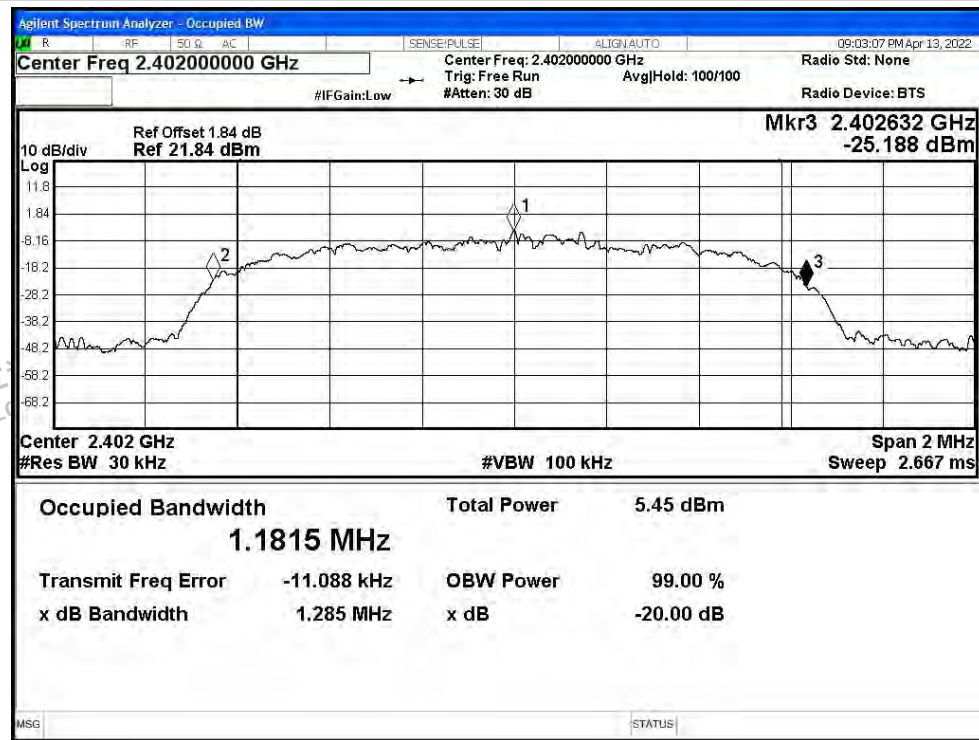
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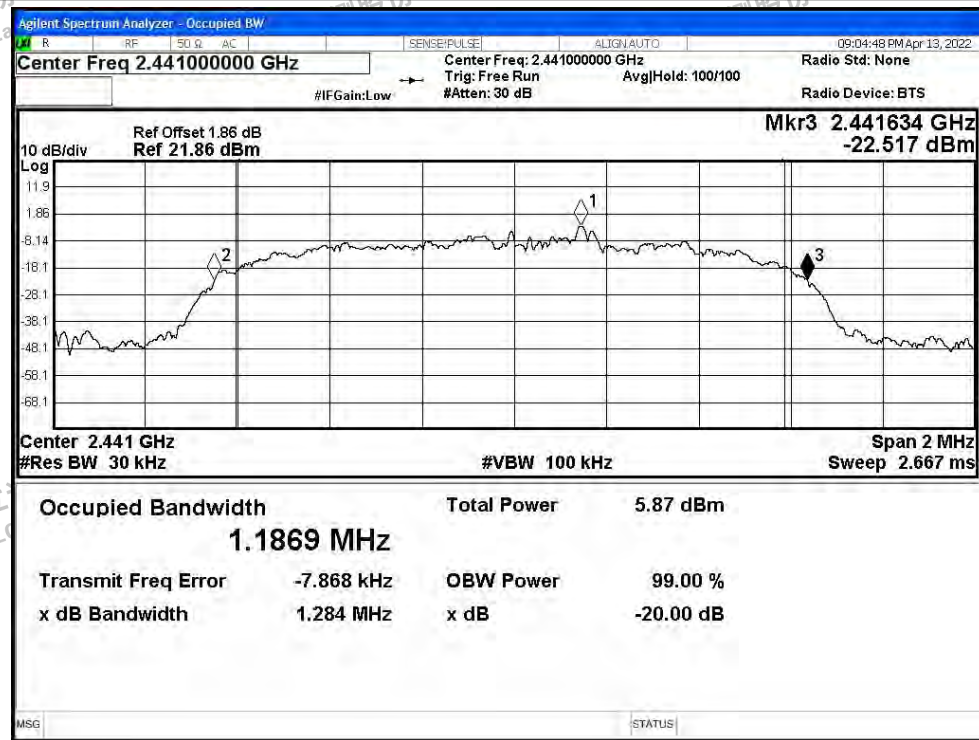
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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



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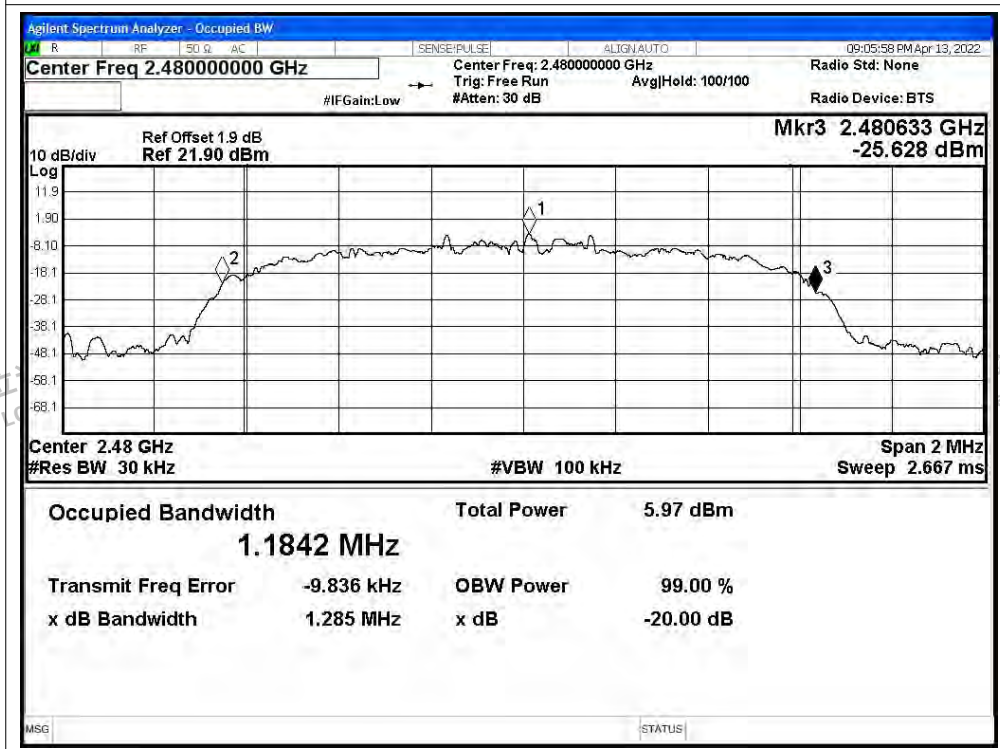
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-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



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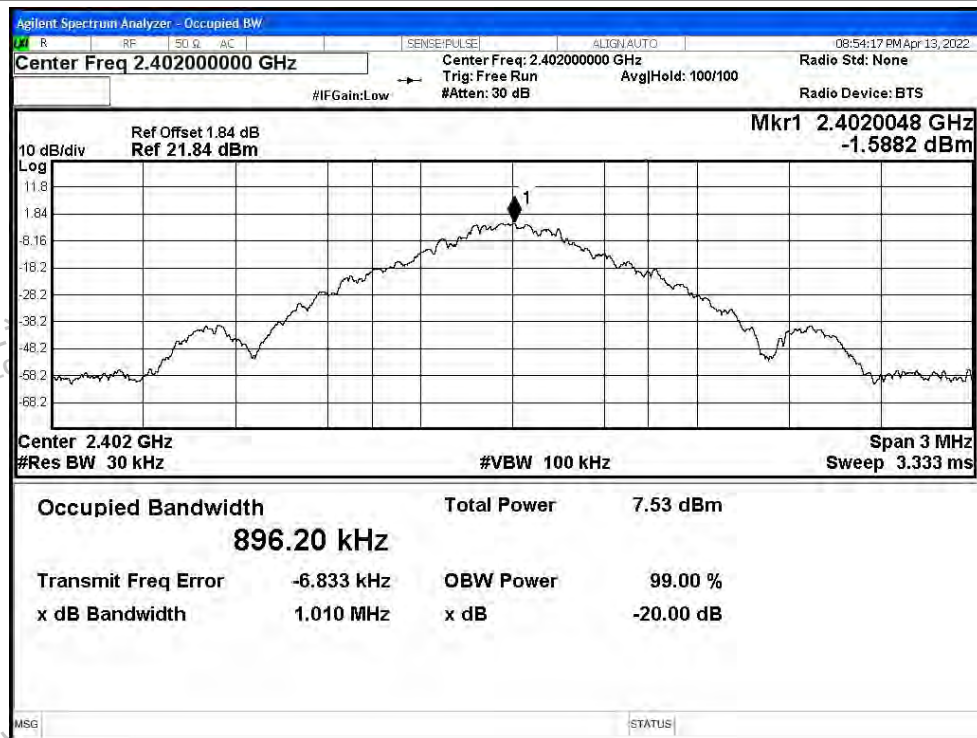
A.2 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.896
NVNT	1-DH5	2441	Ant1	0.893
NVNT	1-DH5	2480	Ant1	0.886
NVNT	2-DH5	2402	Ant1	1.182
NVNT	2-DH5	2441	Ant1	1.182
NVNT	2-DH5	2480	Ant1	1.18
NVNT	3-DH5	2402	Ant1	1.185
NVNT	3-DH5	2441	Ant1	1.191
NVNT	3-DH5	2480	Ant1	1.187

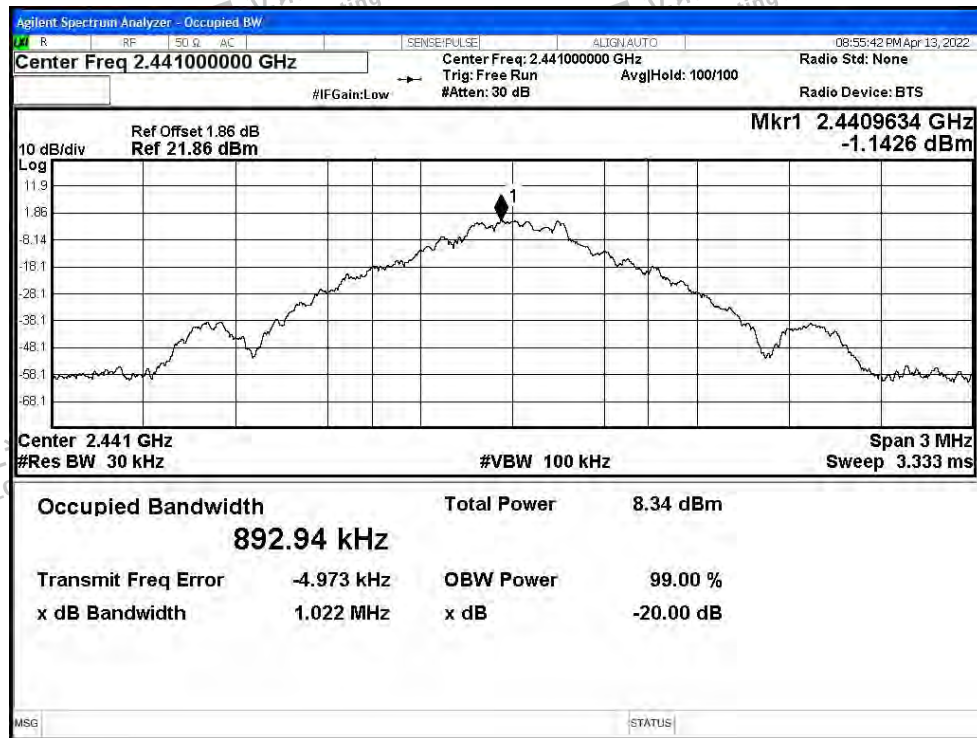


Test Graphs

OBW NVNT 1-DH5 2402MHz Ant1



OBW NVNT 1-DH5 2441MHz Ant1



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OBW NVNT 1-DH5 2480MHz Ant1



OBW NVNT 2-DH5 2402MHz Ant1



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OBW NVNT 2-DH5 2441MHz Ant1



OBW NVNT 2-DH5 2480MHz Ant1



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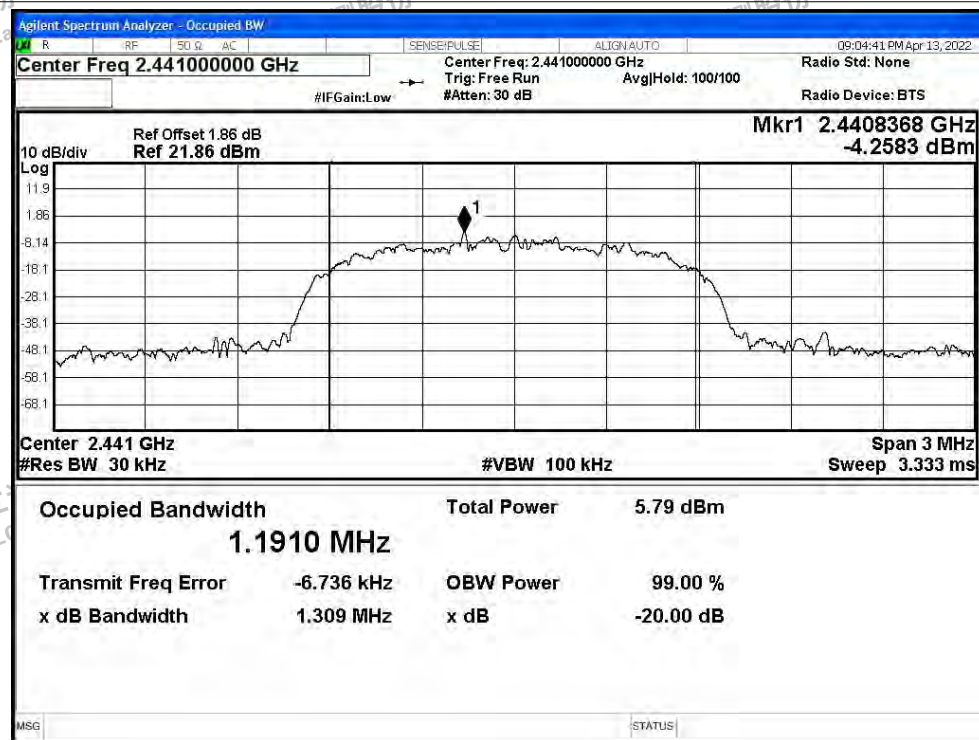
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OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



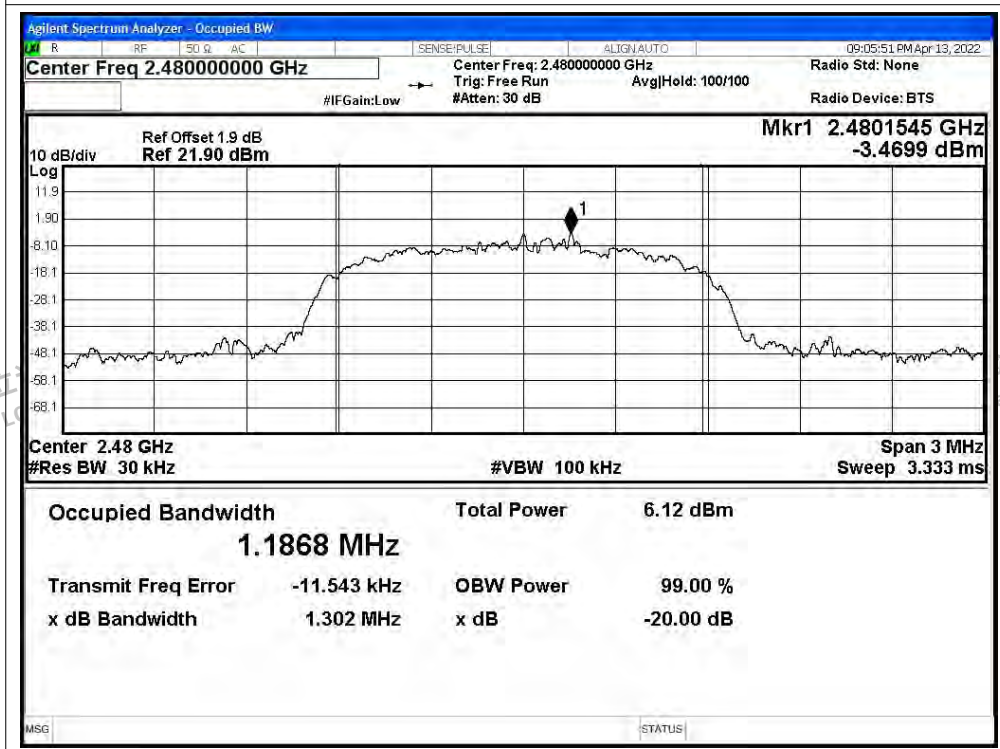
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OBW NVNT 3-DH5 2480MHz Ant1





A.3 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	1.15	0	1.15	21	Pass
NVNT	1-DH5	2441	Ant1	1.66	0	1.66	21	Pass
NVNT	1-DH5	2480	Ant1	1.65	0	1.65	21	Pass
NVNT	2-DH5	2402	Ant1	0.94	0	0.94	21	Pass
NVNT	2-DH5	2441	Ant1	1.43	0	1.43	21	Pass
NVNT	2-DH5	2480	Ant1	1.38	0	1.38	21	Pass
NVNT	3-DH5	2402	Ant1	0.99	0	0.99	21	Pass
NVNT	3-DH5	2441	Ant1	1.55	0	1.55	21	Pass
NVNT	3-DH5	2480	Ant1	1.49	0	1.49	21	Pass



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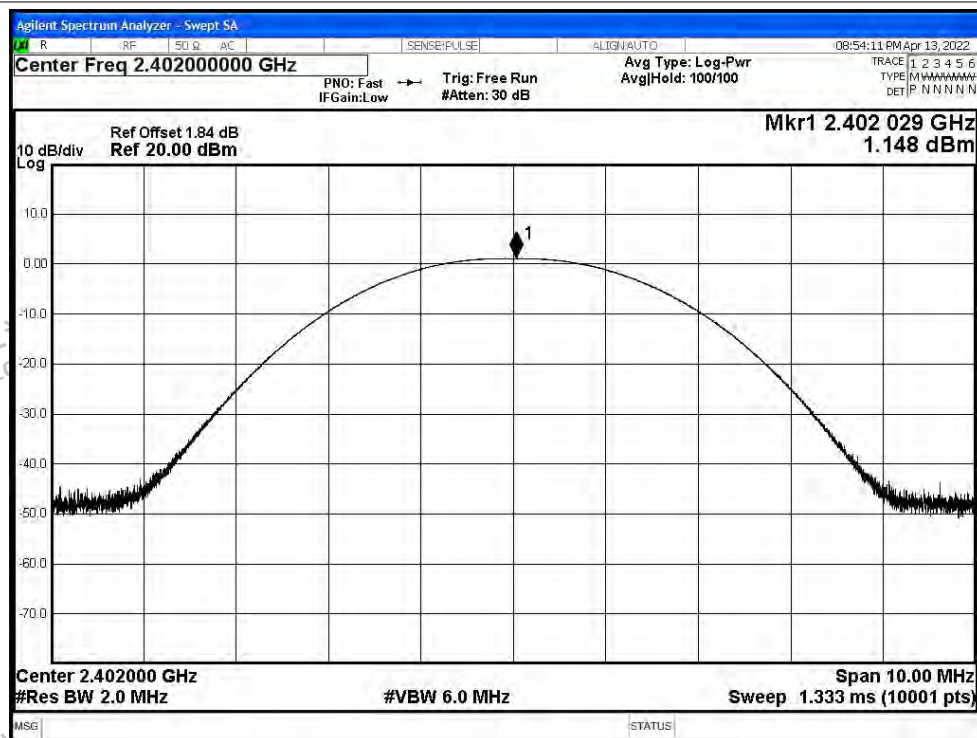
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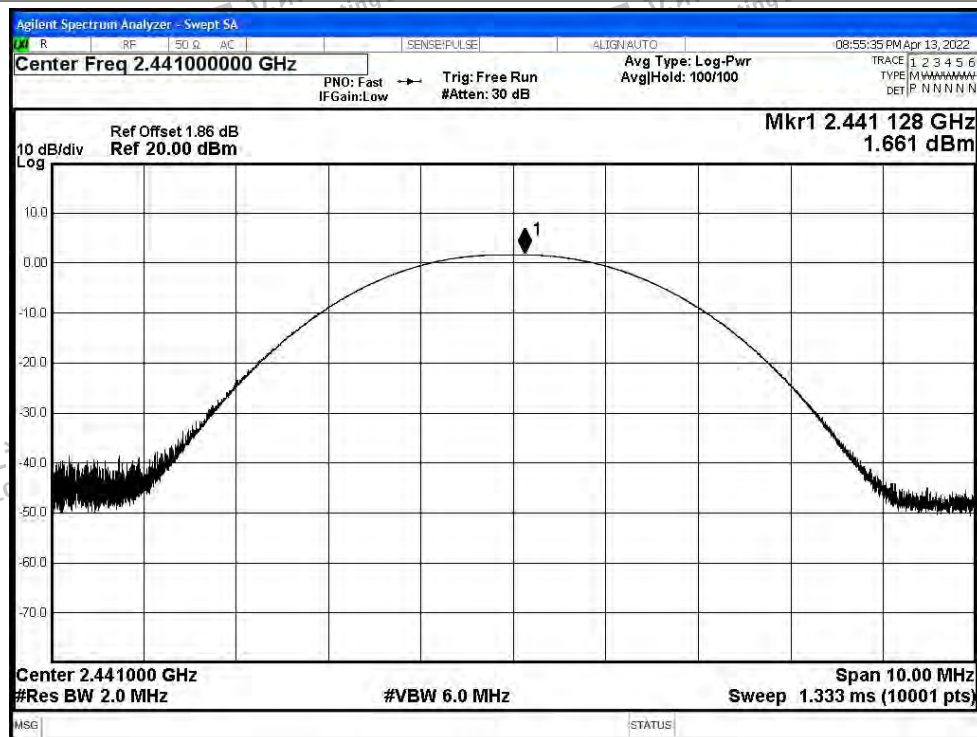


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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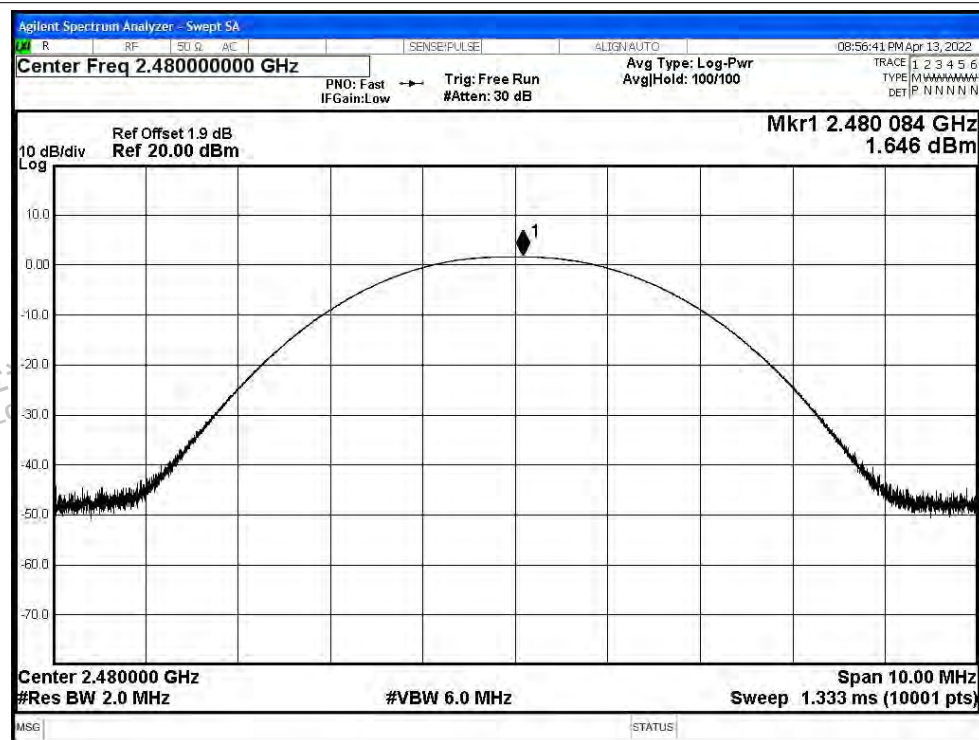
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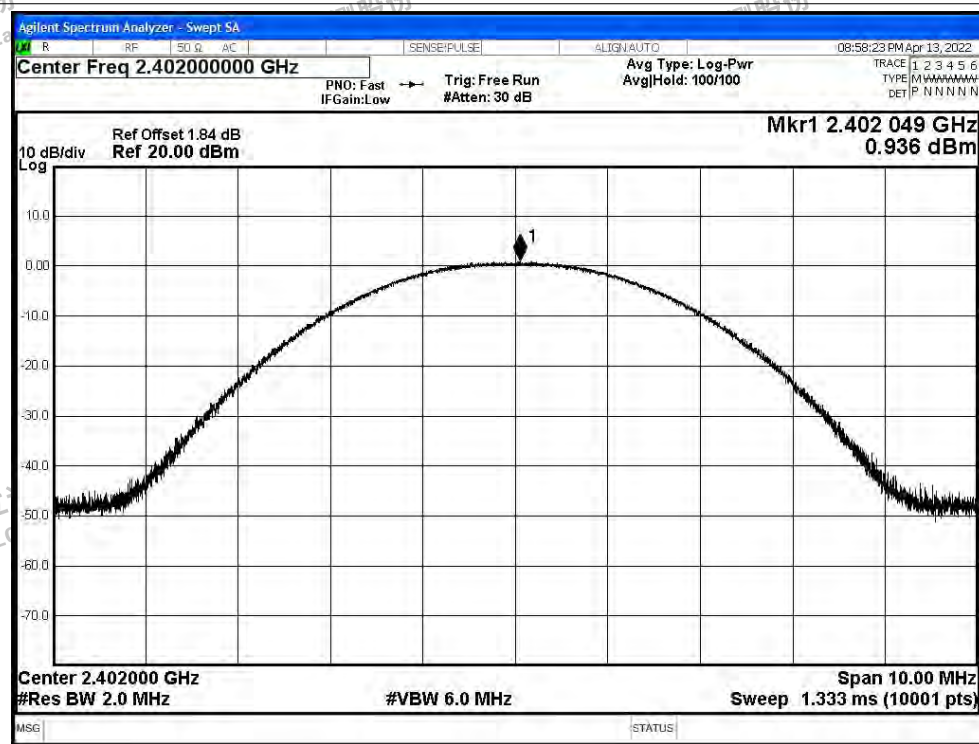
Scan code to check authenticity



Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1



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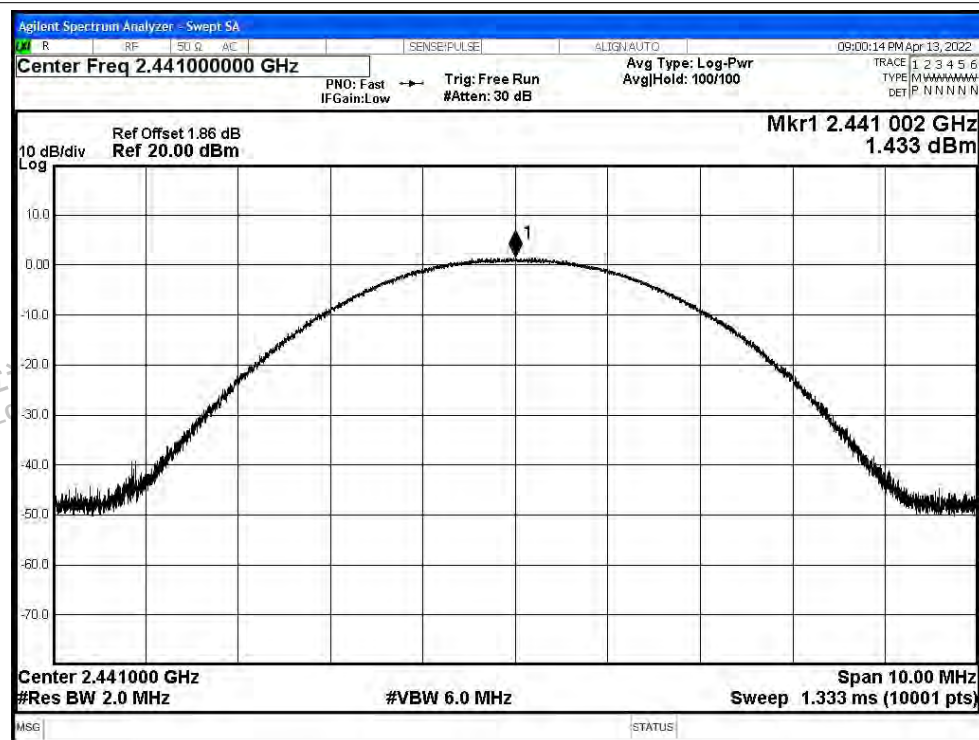
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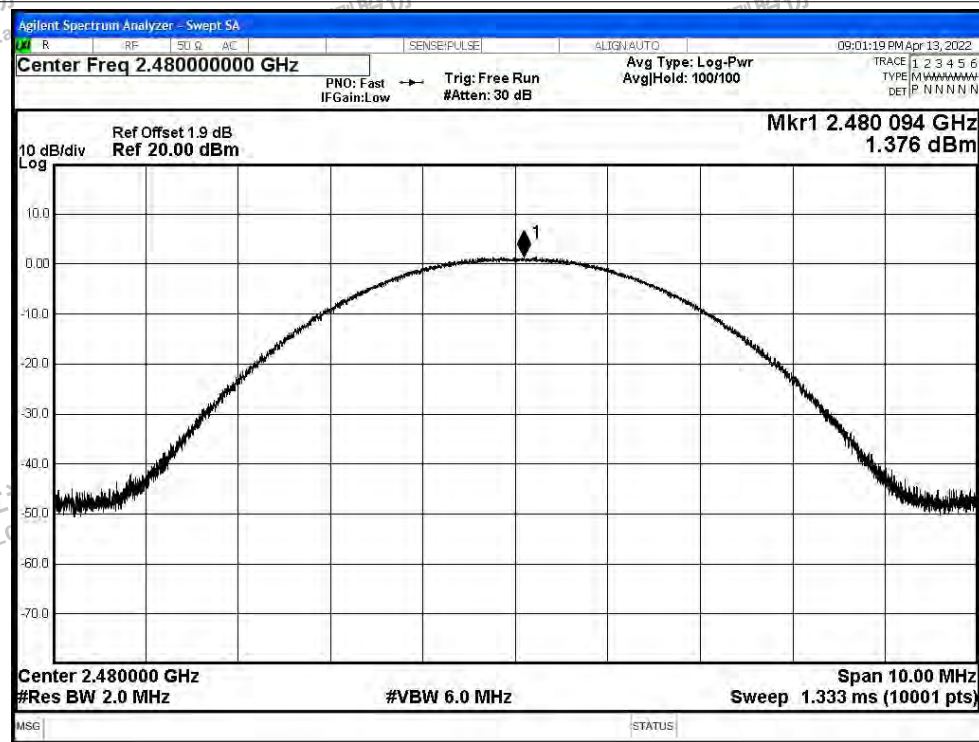
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Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1



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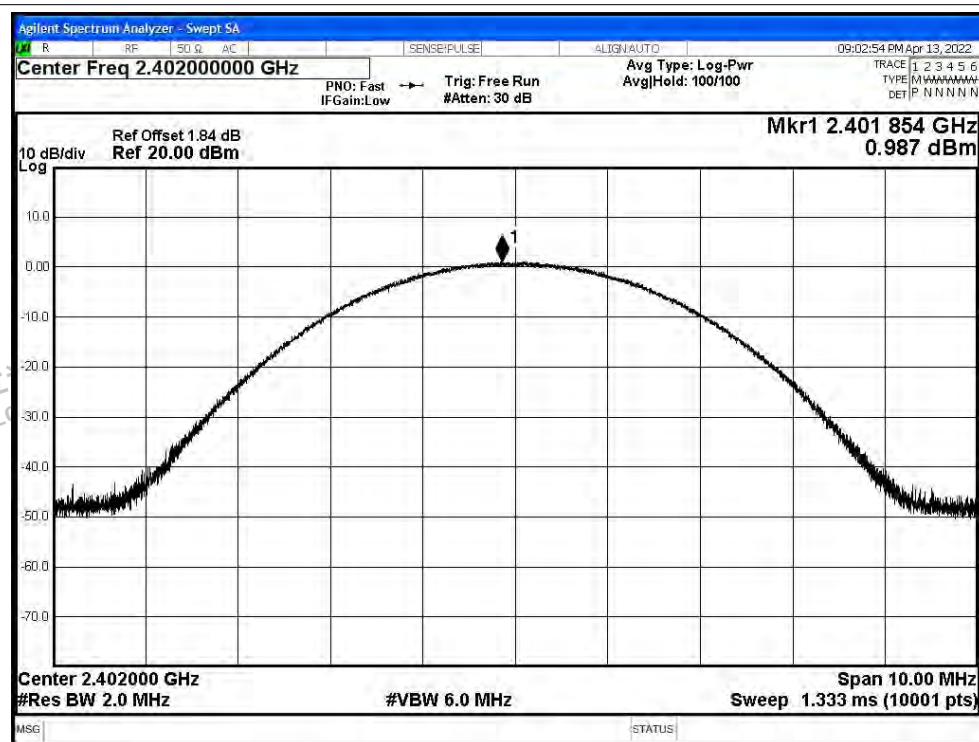
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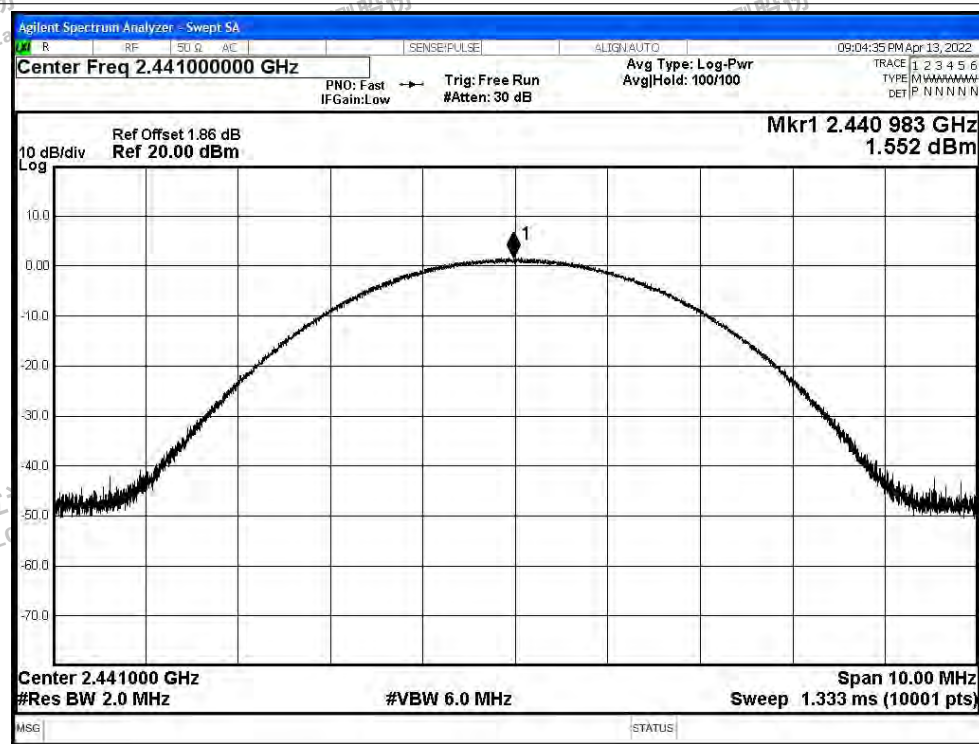
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Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1

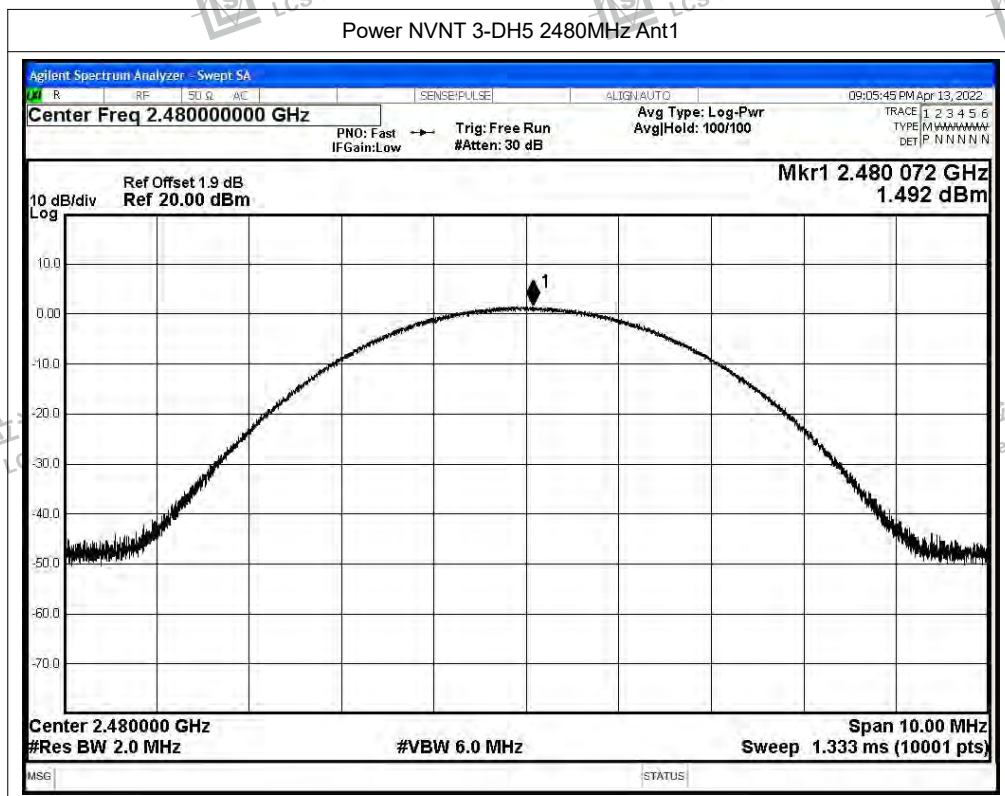


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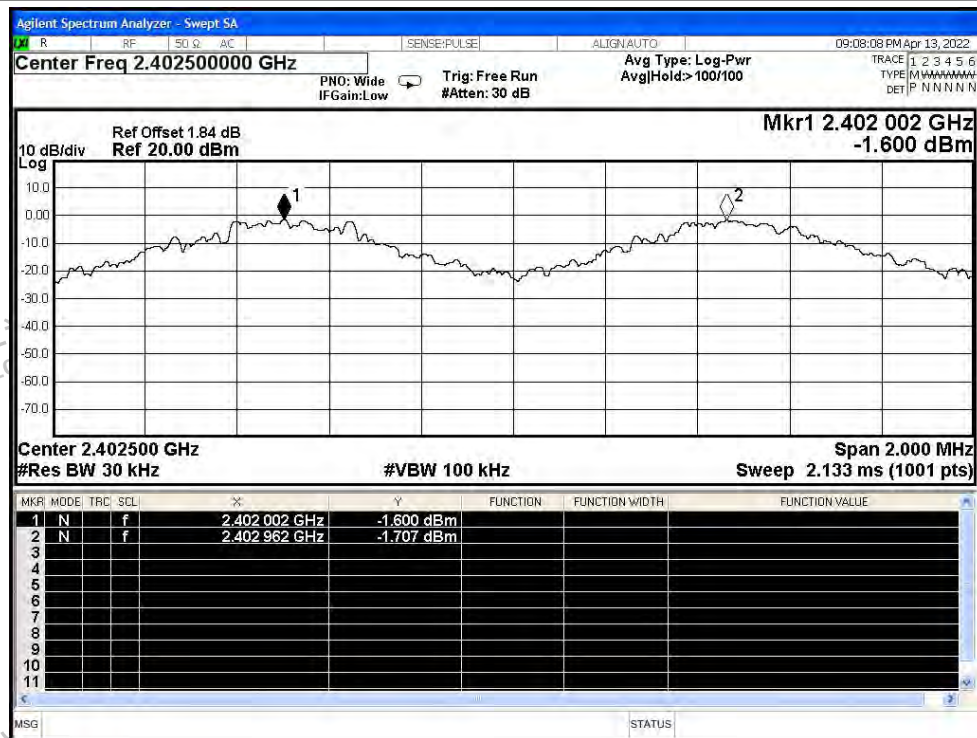


A.4 Carrier Frequencies Separation

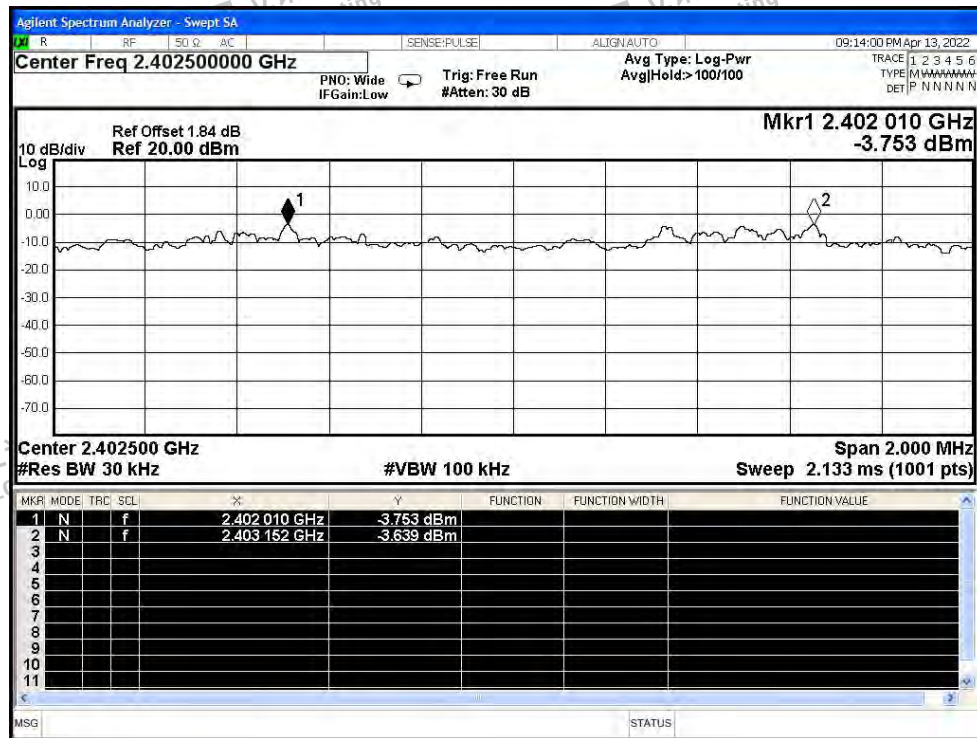
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.002	2402.962	0.96	0.671	Pass
NVNT	2-DH5	Ant1	2402.01	2403.152	1.142	0.859	Pass
NVNT	3-DH5	Ant1	2401.846	2403.008	1.162	0.857	Pass

Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

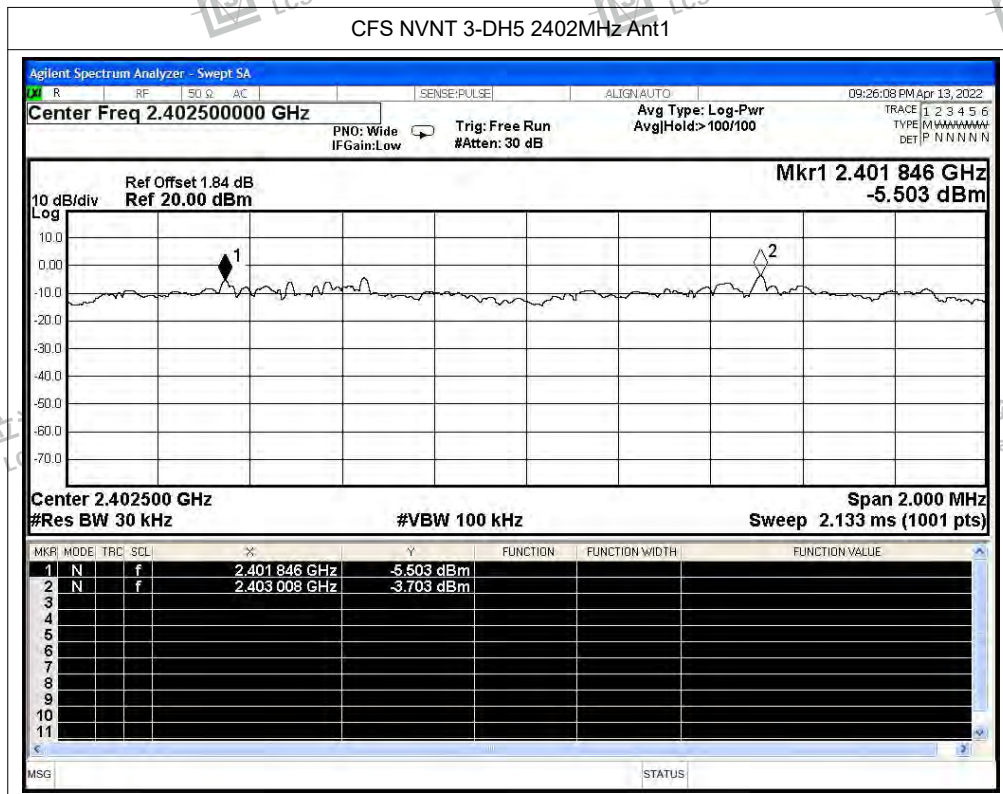


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A.5 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.882	273.79	95	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.882	299.728	104	31600	400	Pass
NVNT	1-DH5	2480	Ant1	2.882	282.436	98	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	291.385	101	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.88	308.16	107	31600	400	Pass
NVNT	2-DH5	2480	Ant1	2.885	282.73	98	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.886	305.916	106	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.884	273.98	95	31600	400	Pass
NVNT	3-DH5	2480	Ant1	2.887	282.926	98	31600	400	Pass



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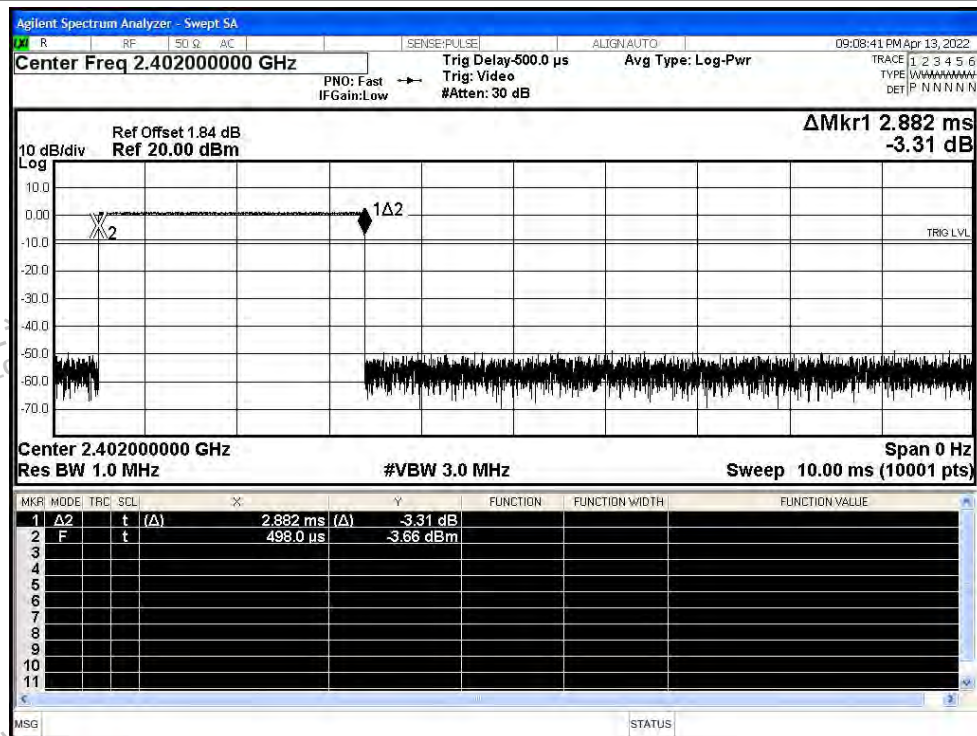
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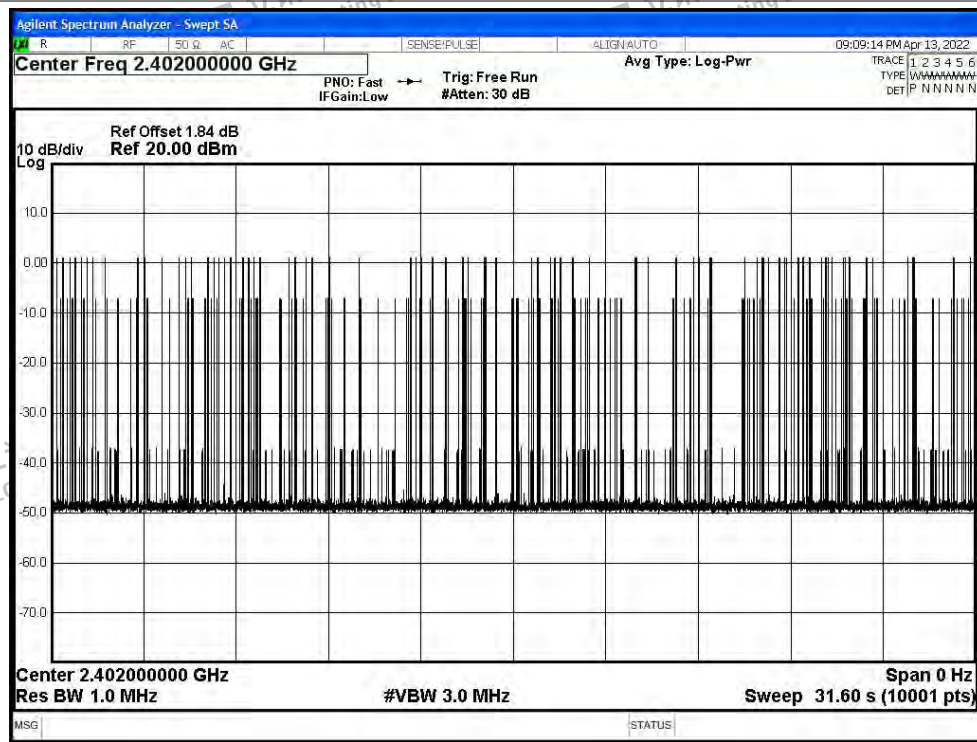


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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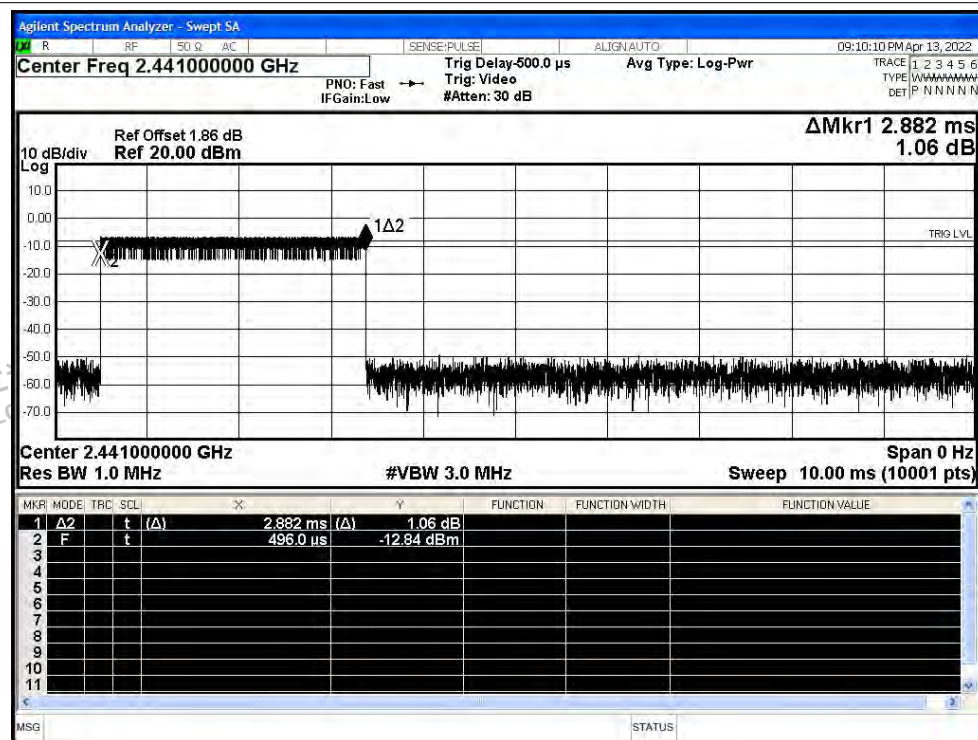
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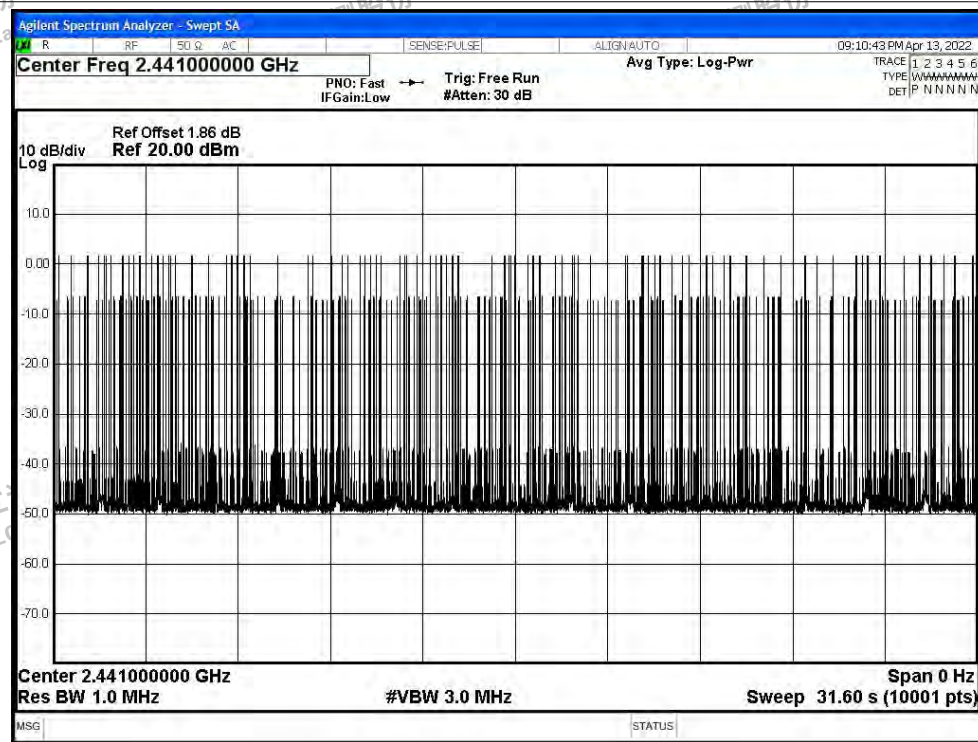
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Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



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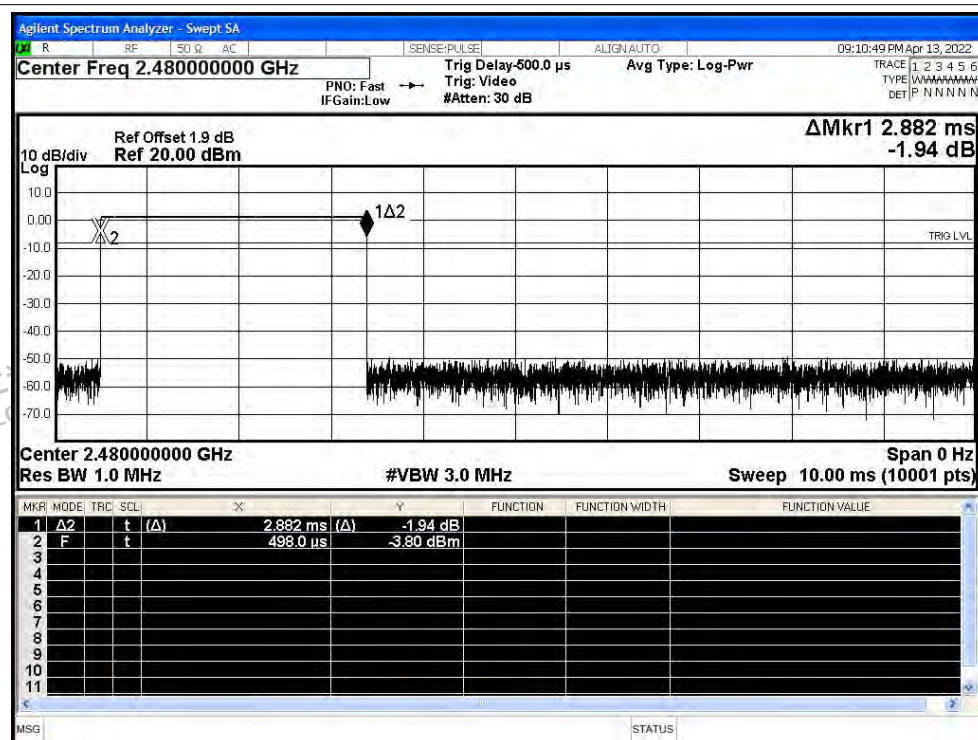
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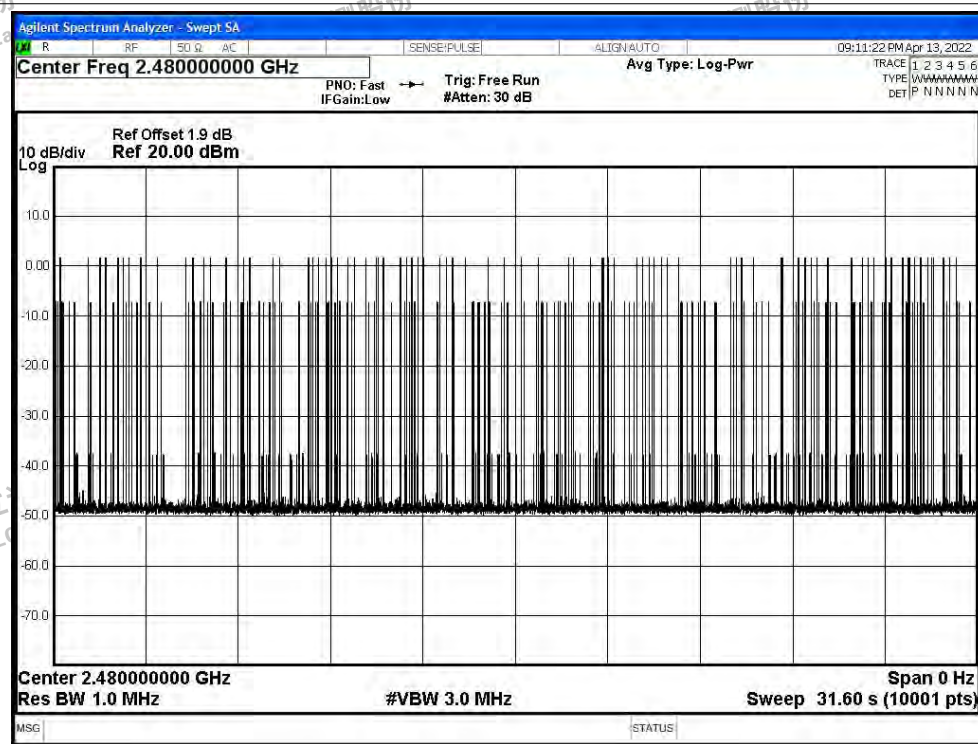
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Dwell NVNT 1-DH5 2480MHz Ant1 One Burst



Dwell NVNT 1-DH5 2480MHz Ant1 Accumulated



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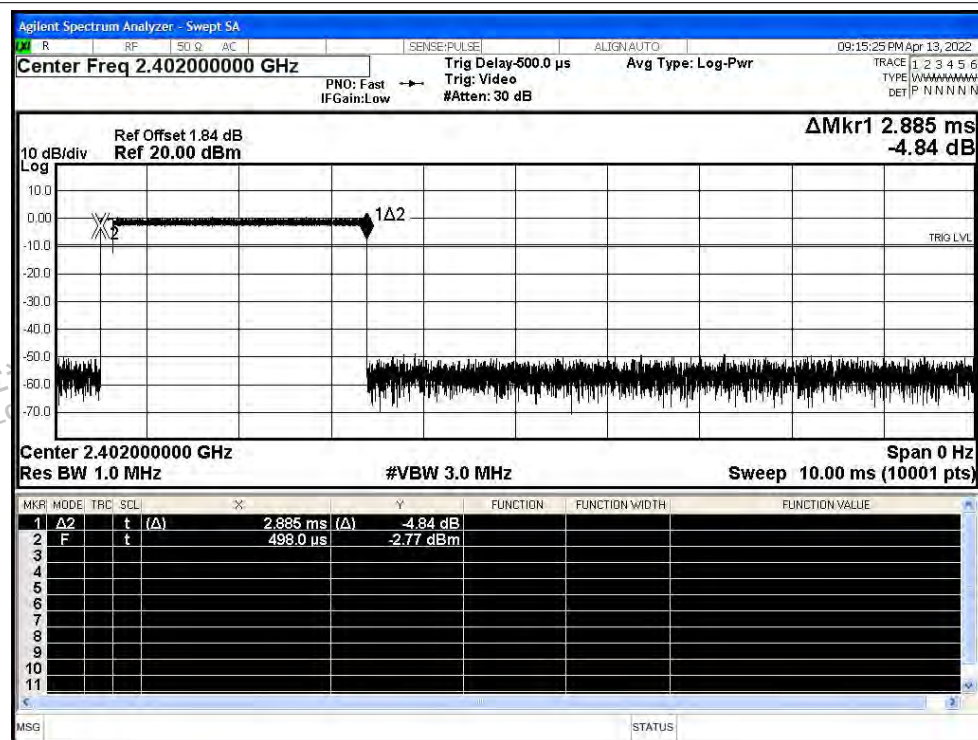
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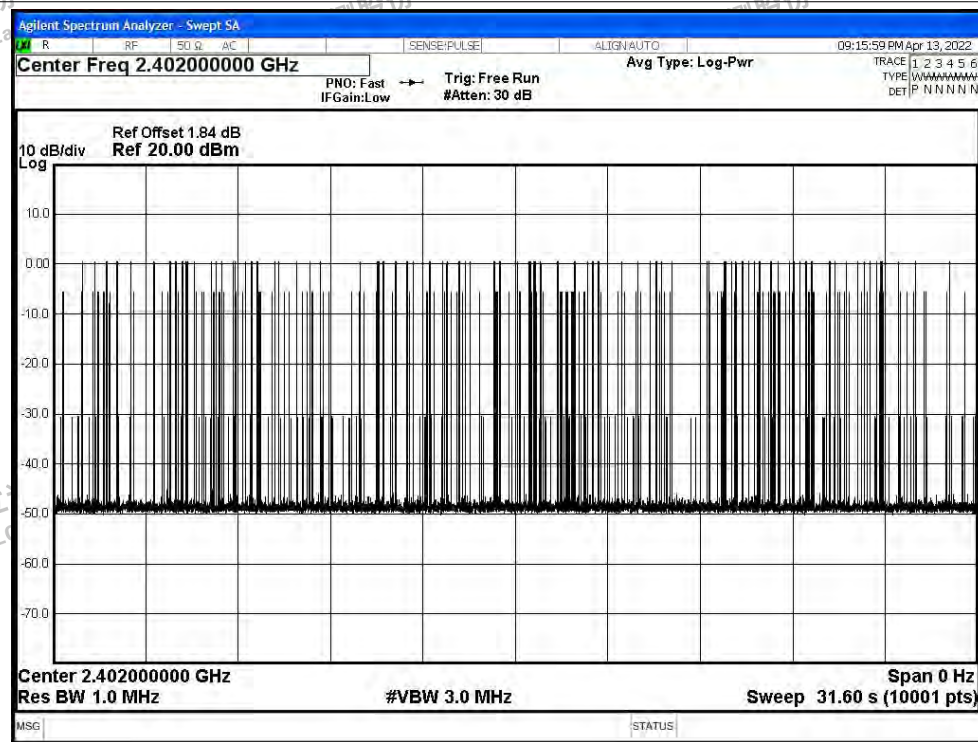
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



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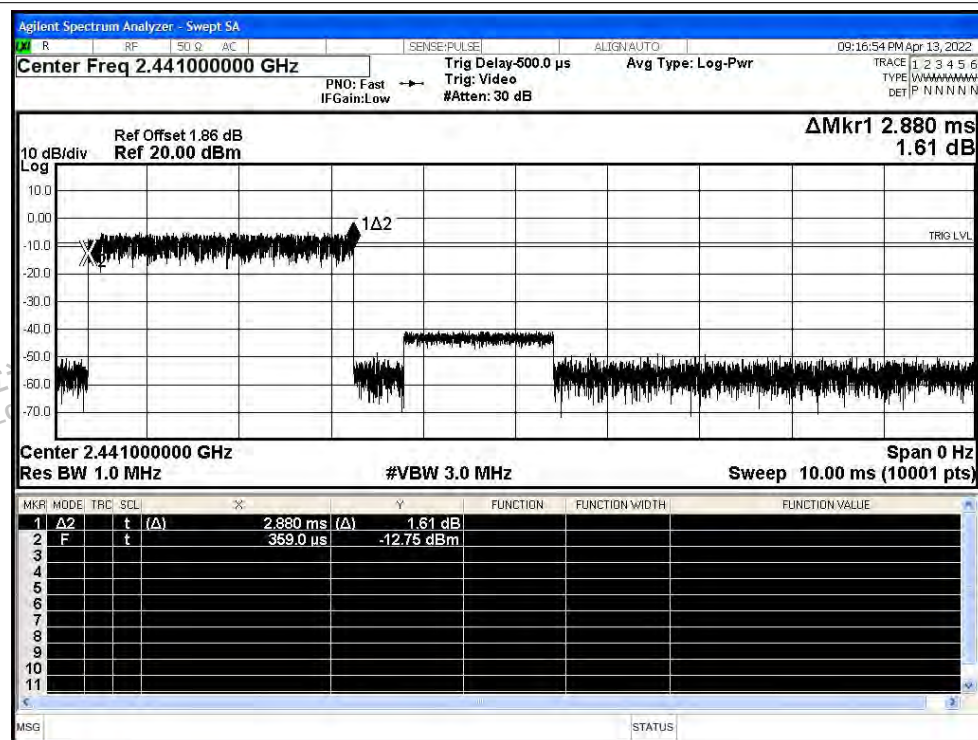
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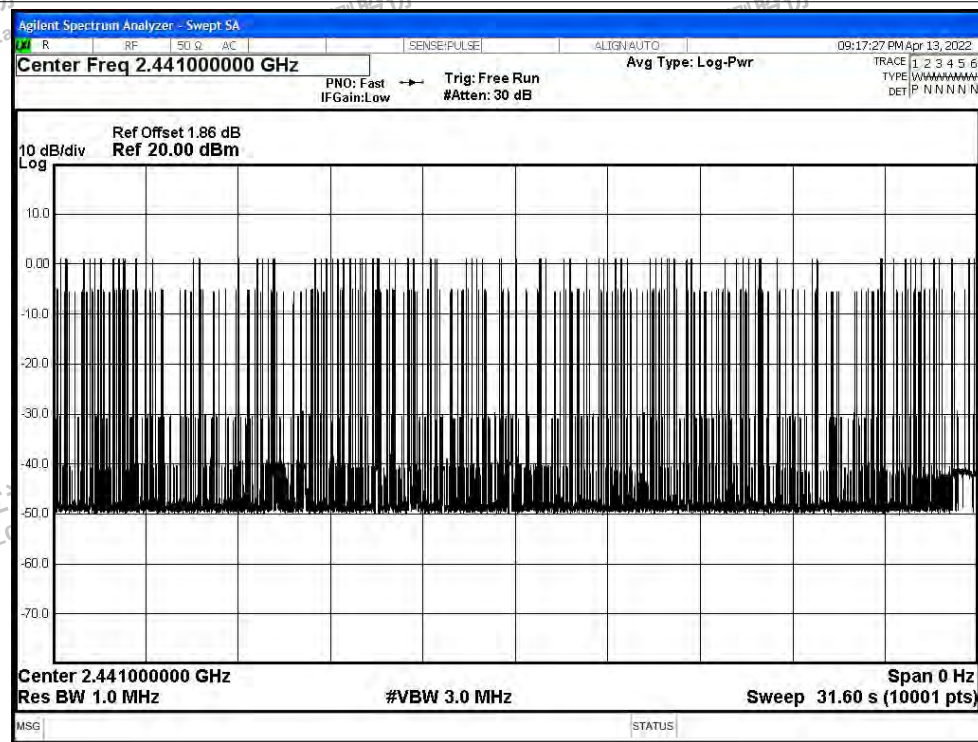
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Dwell NVNT 2-DH5 2441MHz Ant1 One Burst



Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



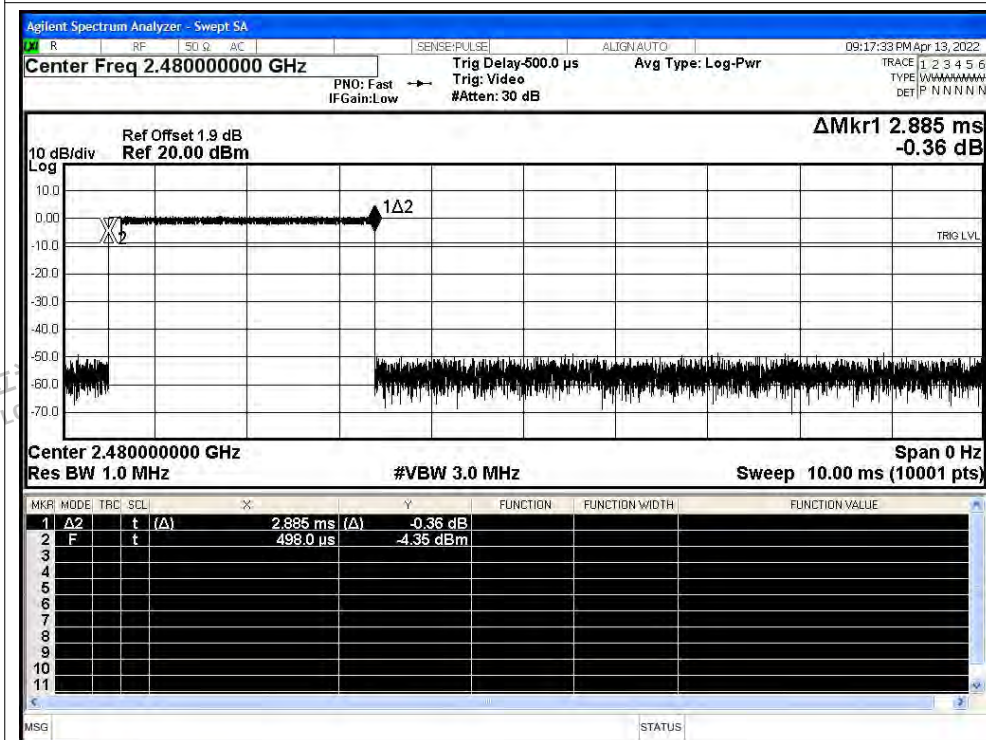
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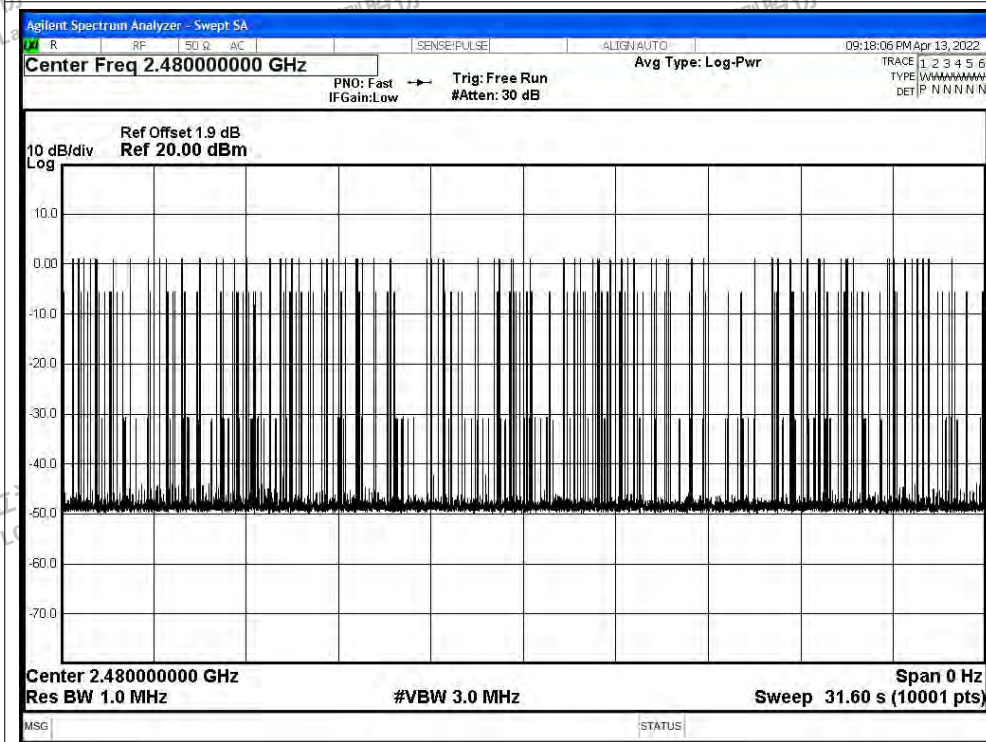
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Dwell NVNT 2-DH5 2480MHz Ant1 One Burst



Dwell NVNT 2-DH5 2480MHz Ant1 Accumulated



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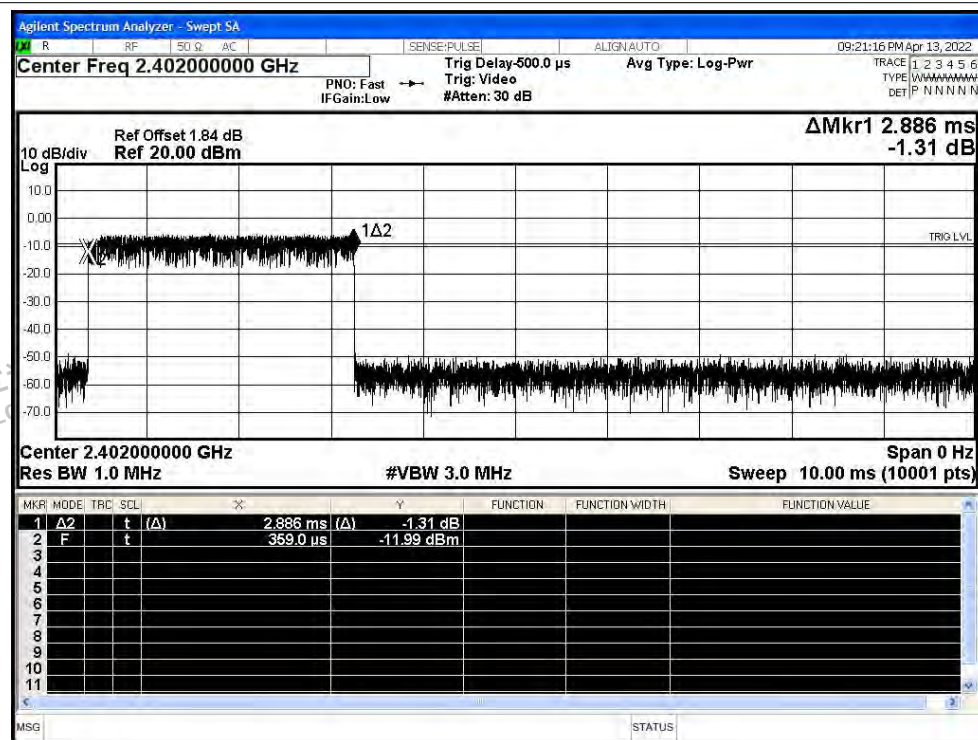
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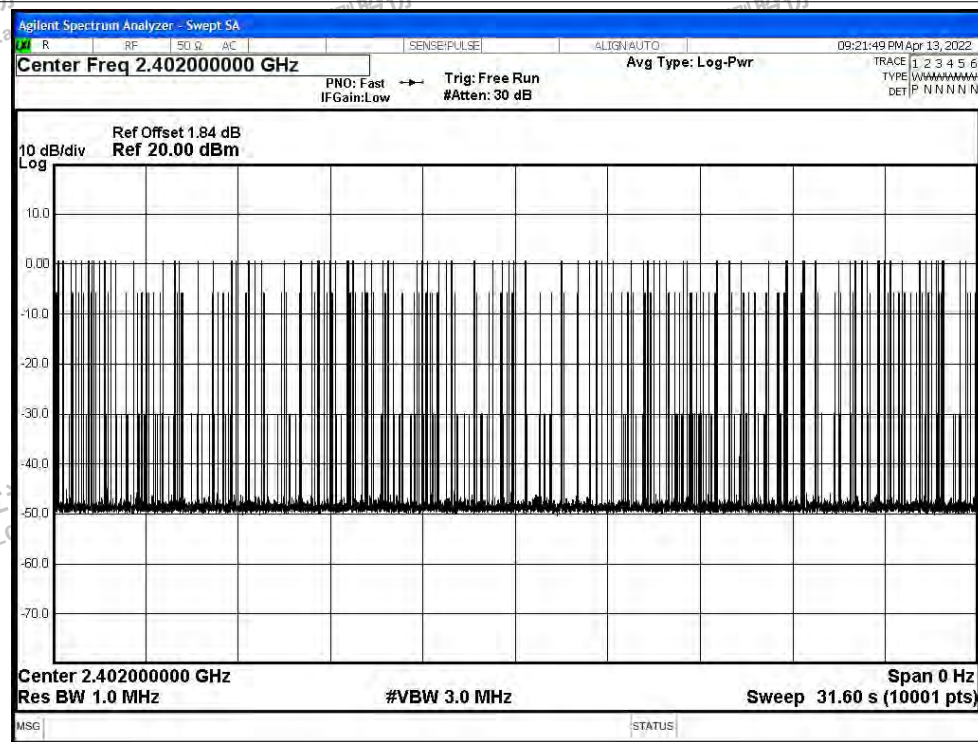
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Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



Shenzhen LCS Compliance Testing Laboratory Ltd.

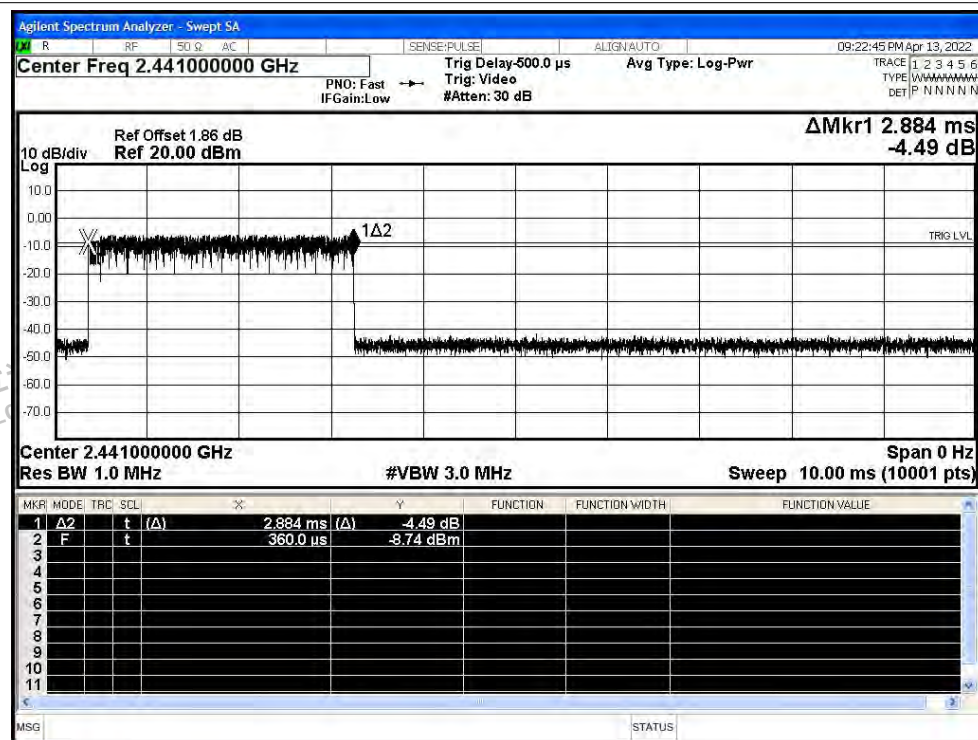
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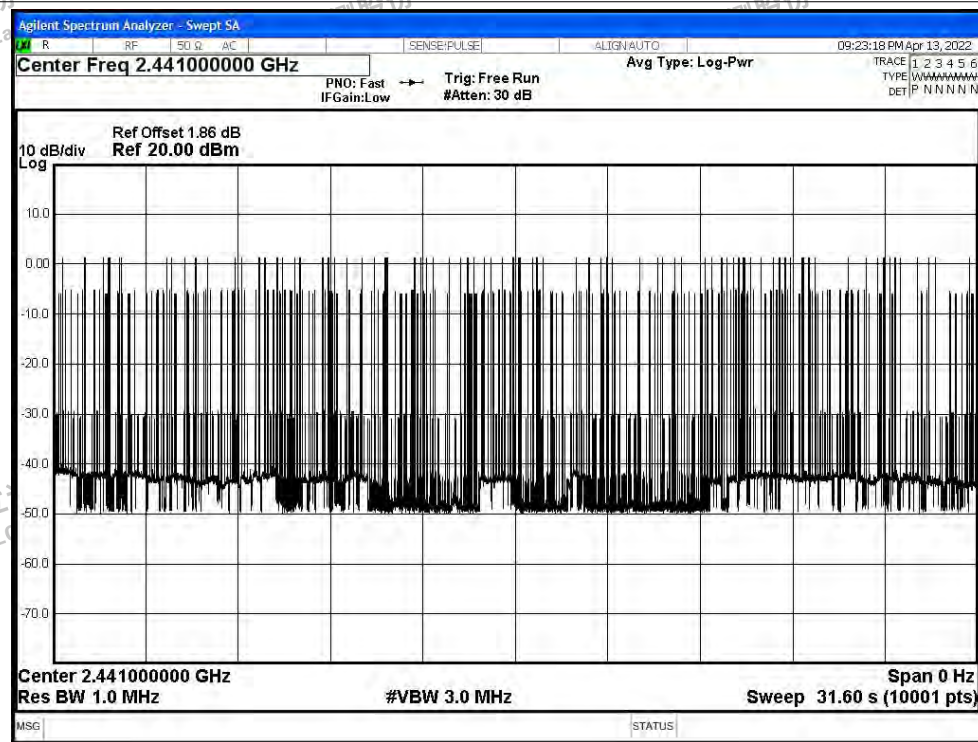
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Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated



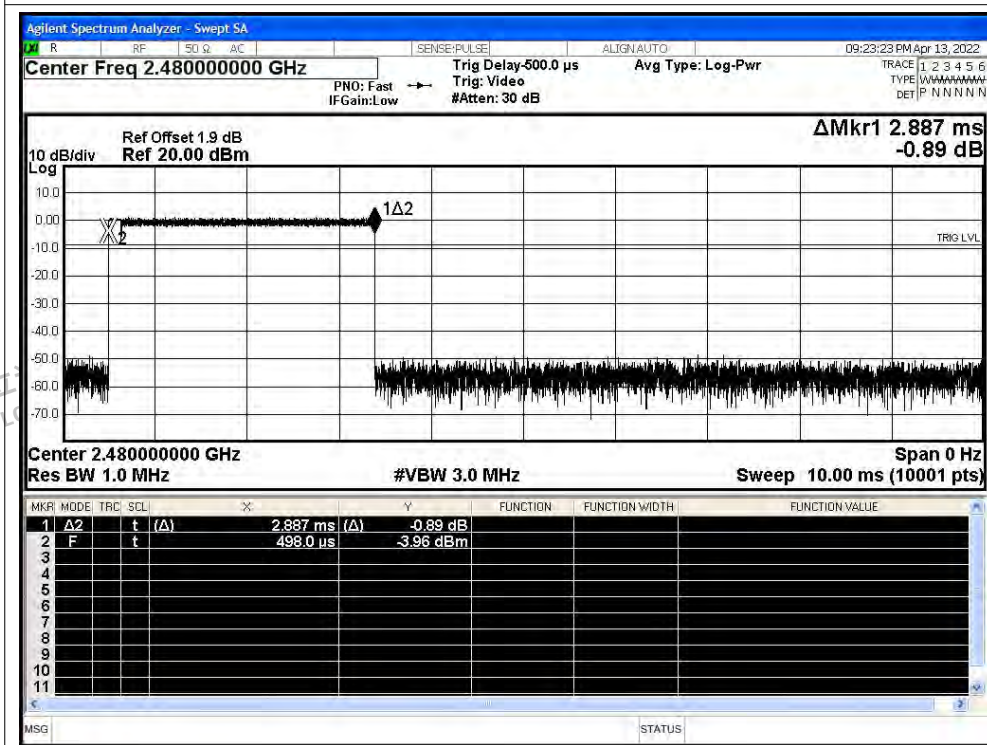
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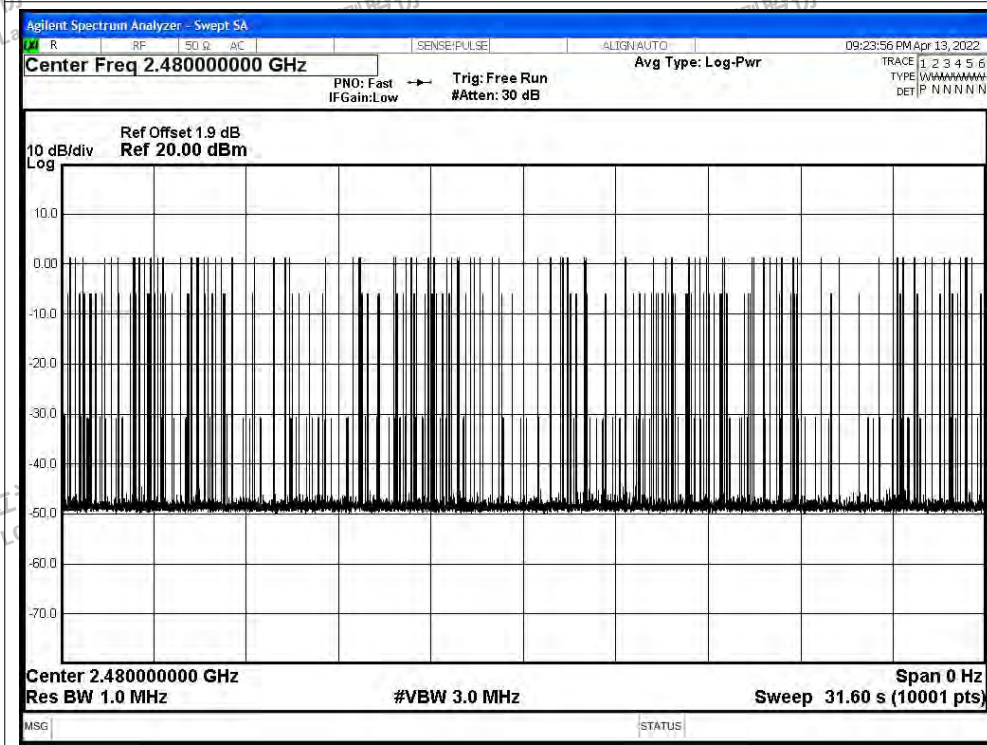
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



Dwell NVNT 3-DH5 2480MHz Ant1 Accumulated



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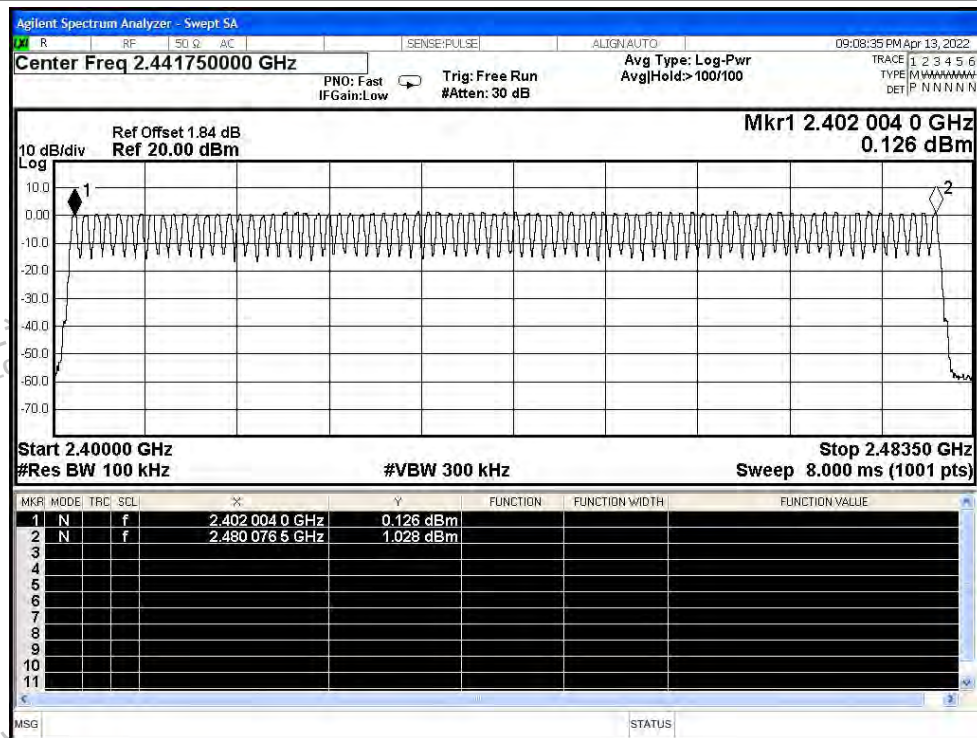
A.6 Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

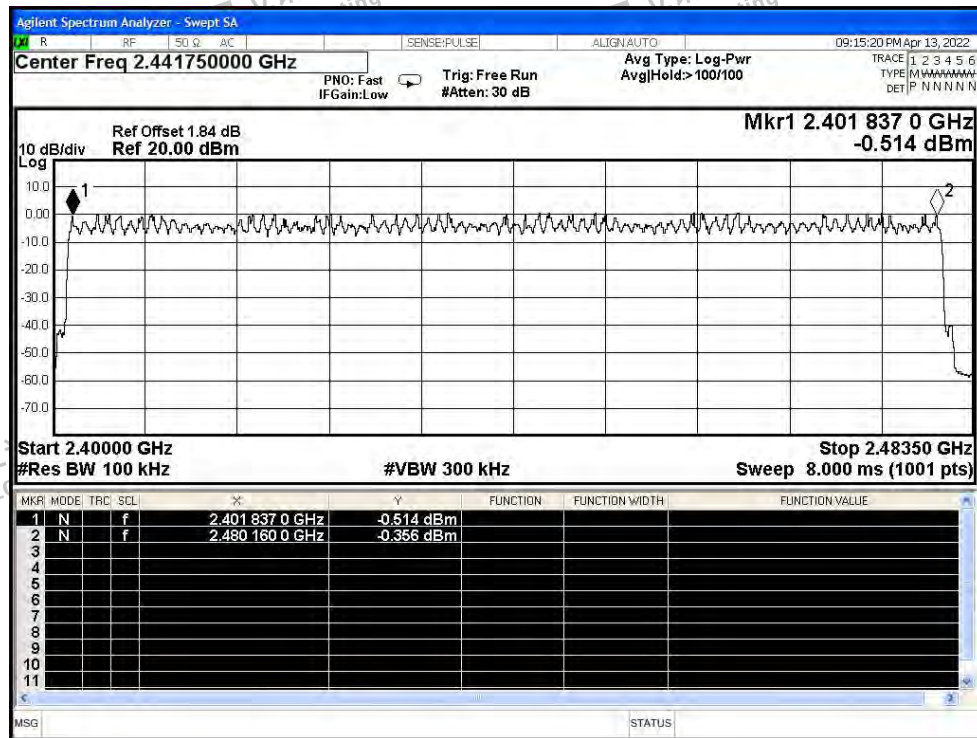


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



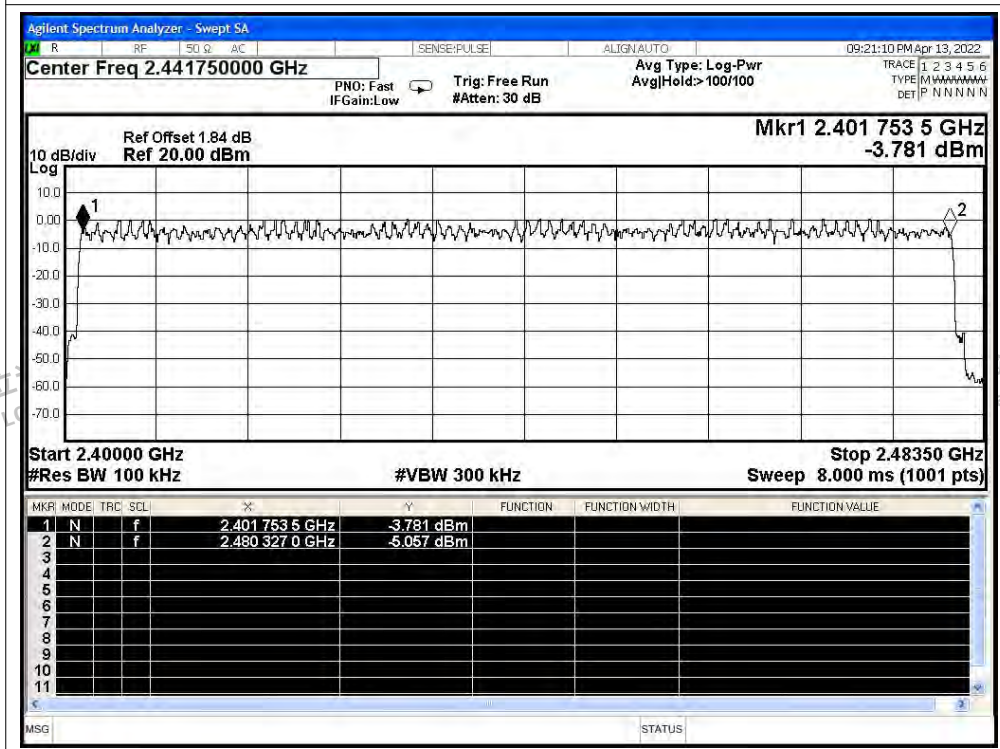
Shenzhen LCS Compliance Testing Laboratory Ltd.

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Hopping No. NVNT 3-DH5 2402MHz Ant1



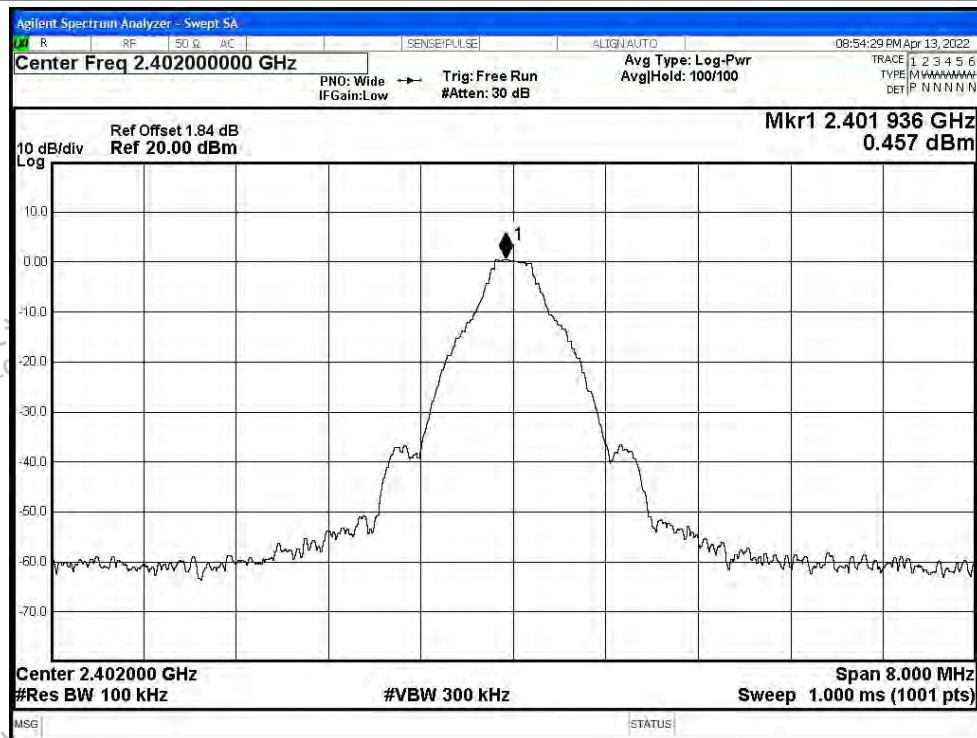
A.7 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-57.8	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.9	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.09	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.61	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-54.27	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.4	-20	Pass

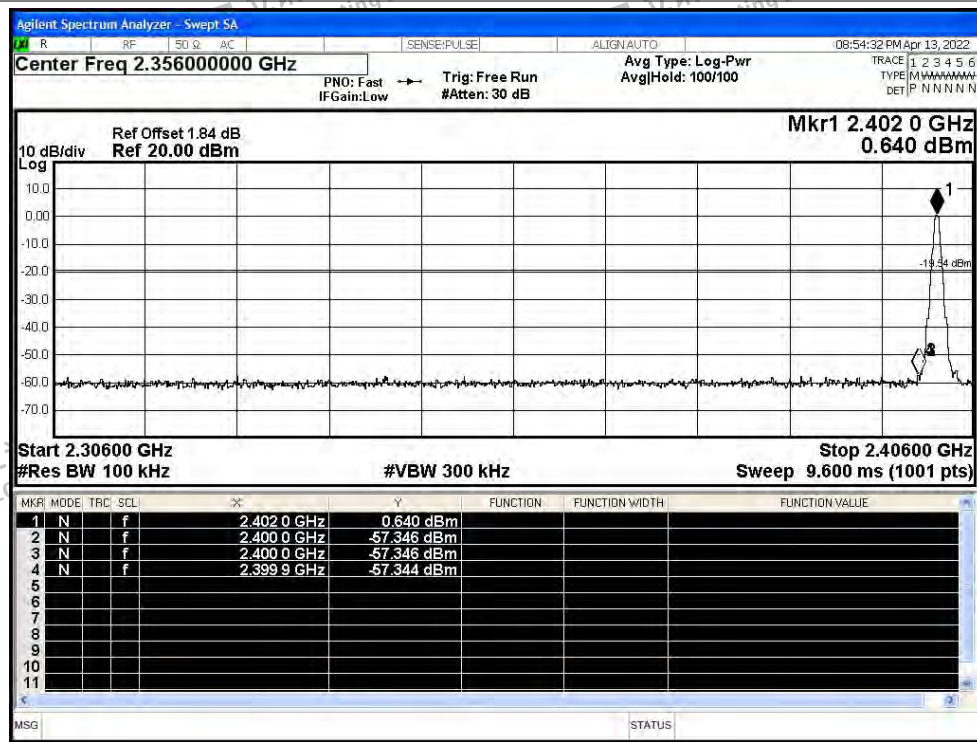


Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



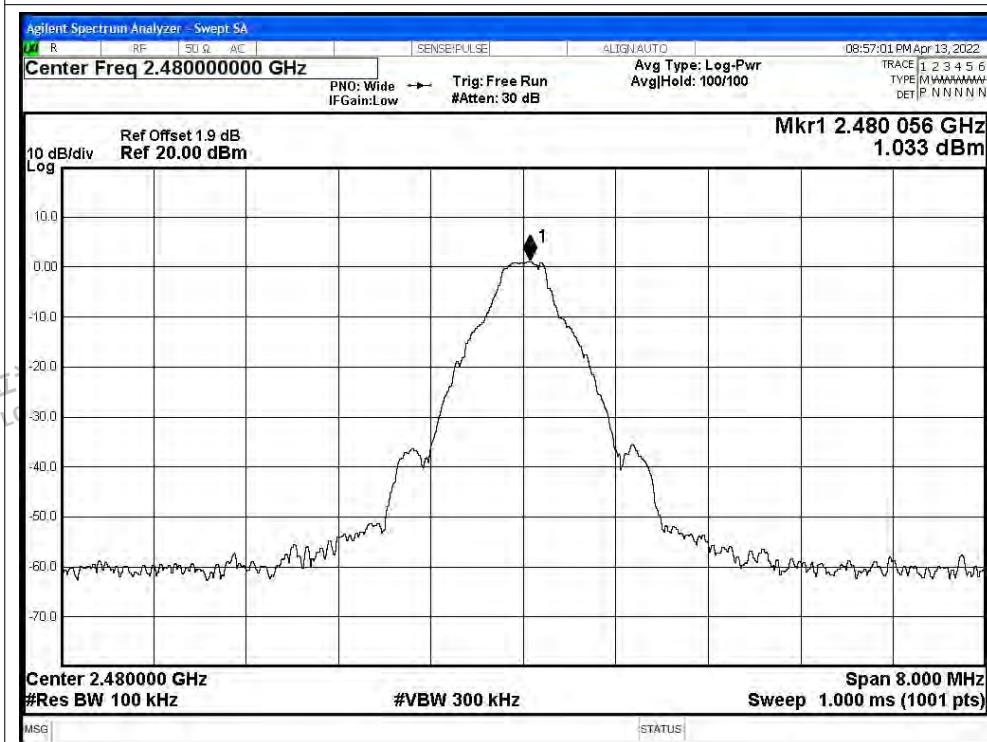
Shenzhen LCS Compliance Testing Laboratory Ltd.

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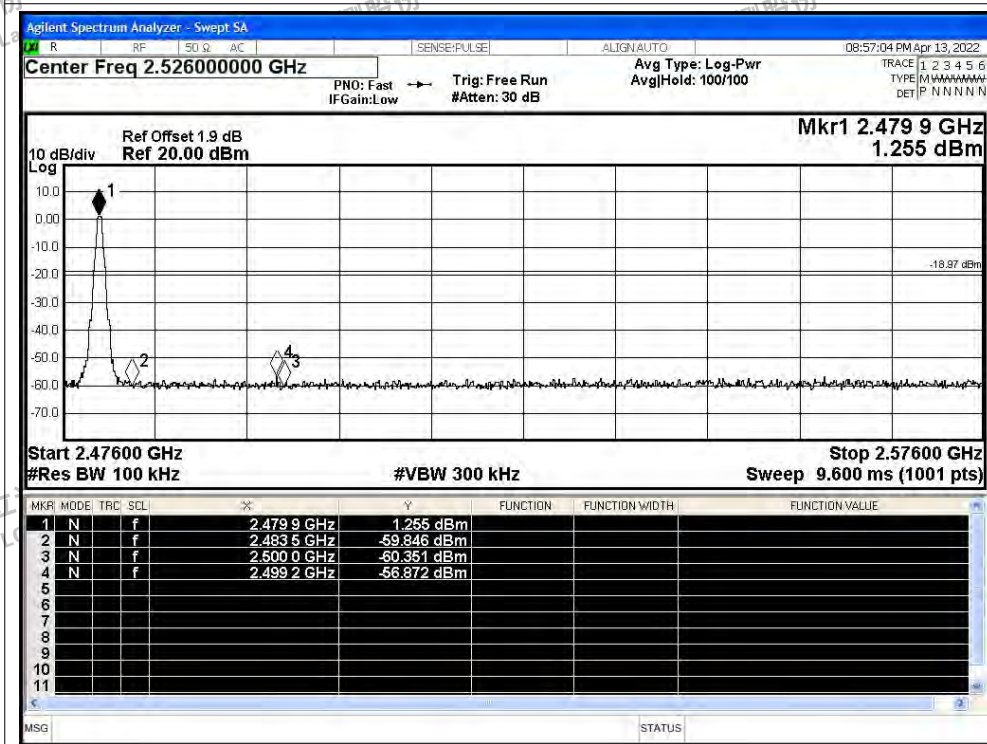
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



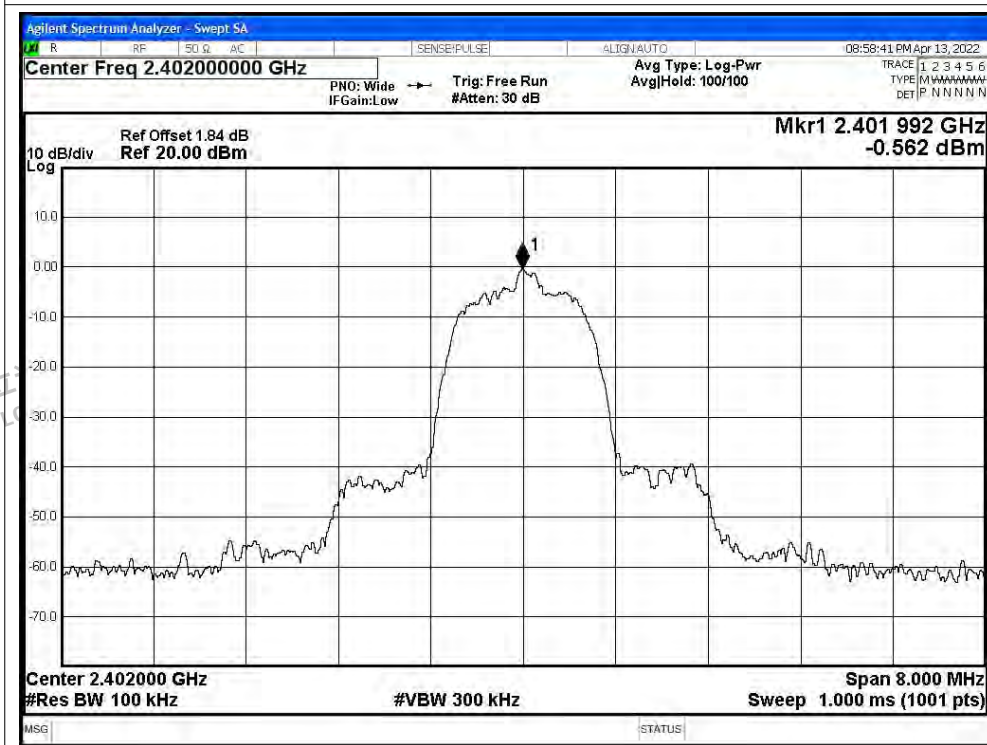
Shenzhen LCS Compliance Testing Laboratory Ltd.

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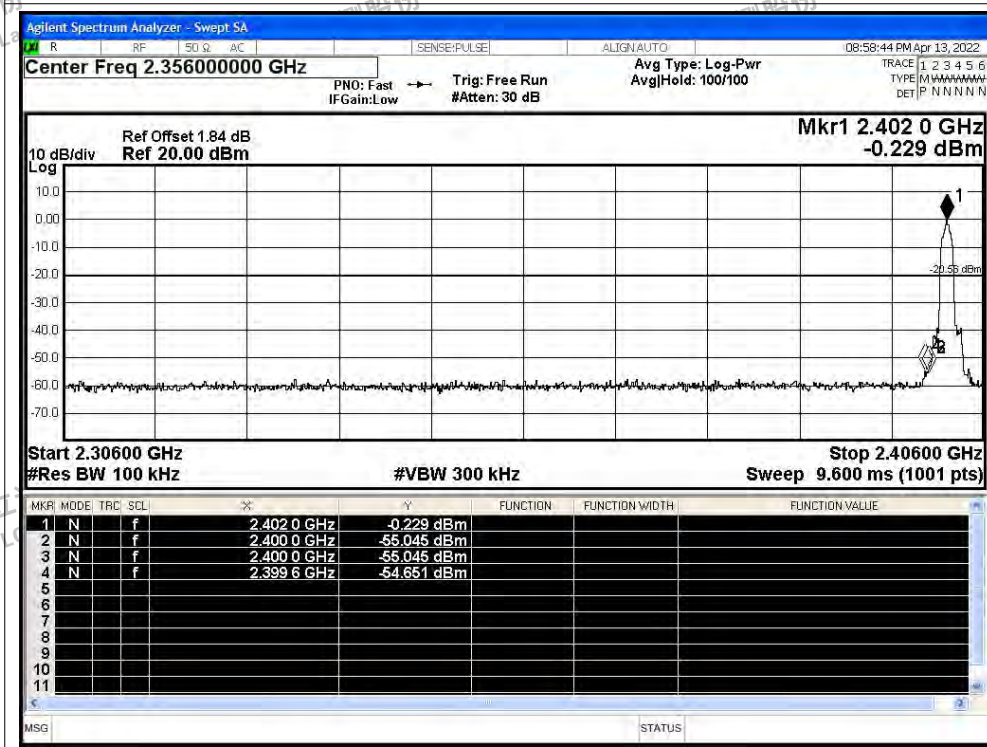
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



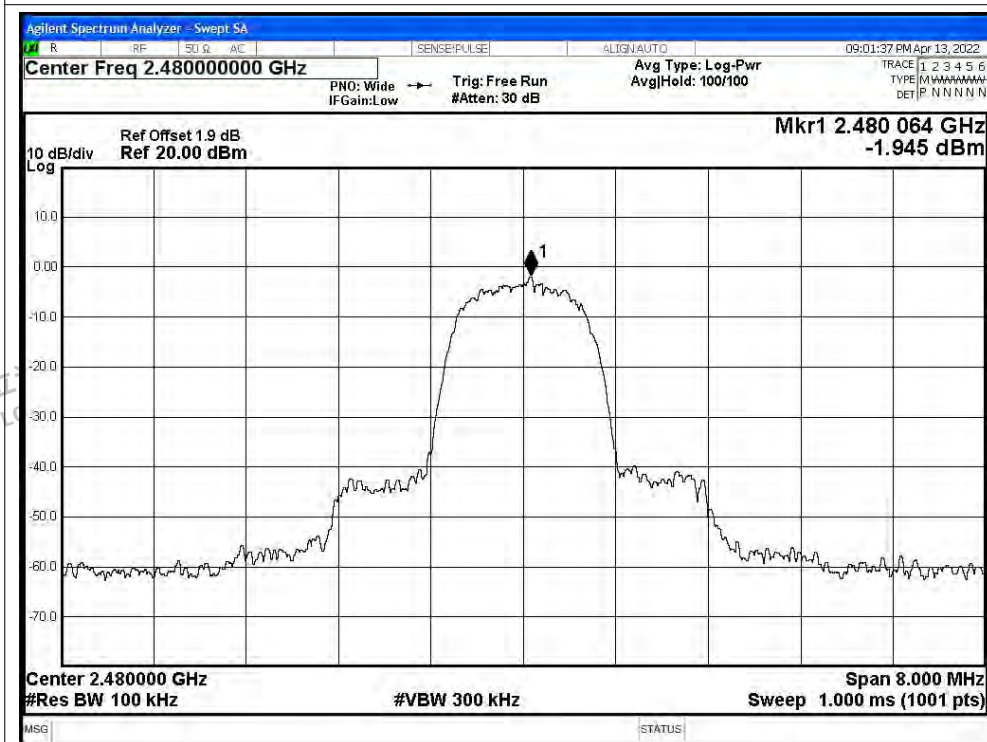
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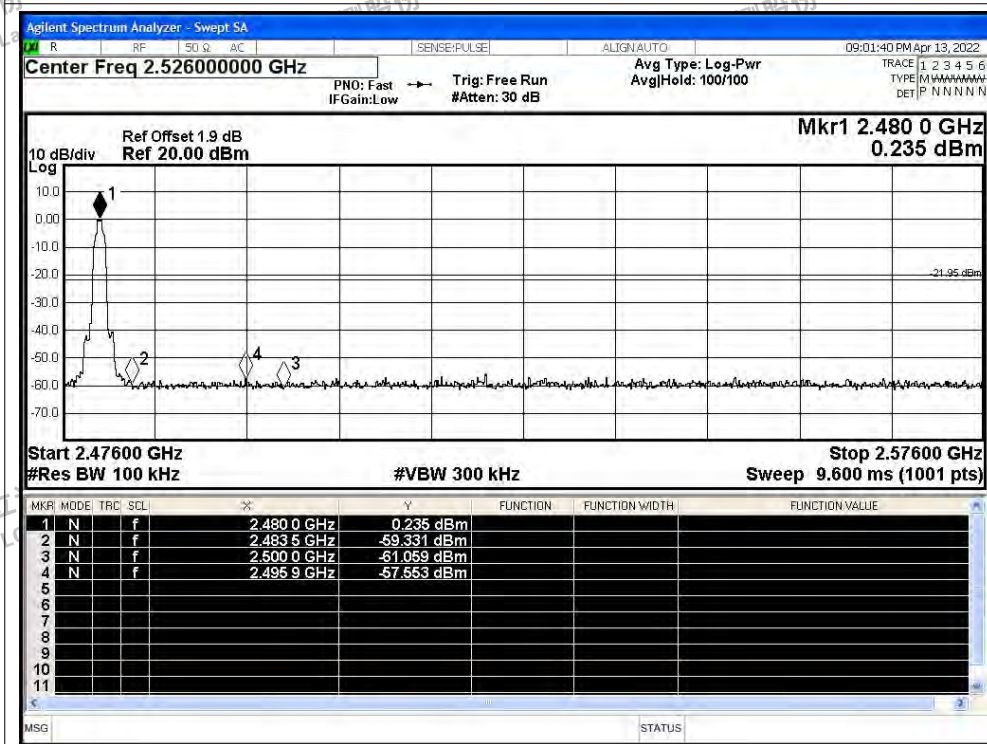
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Scan code to check authenticity

Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



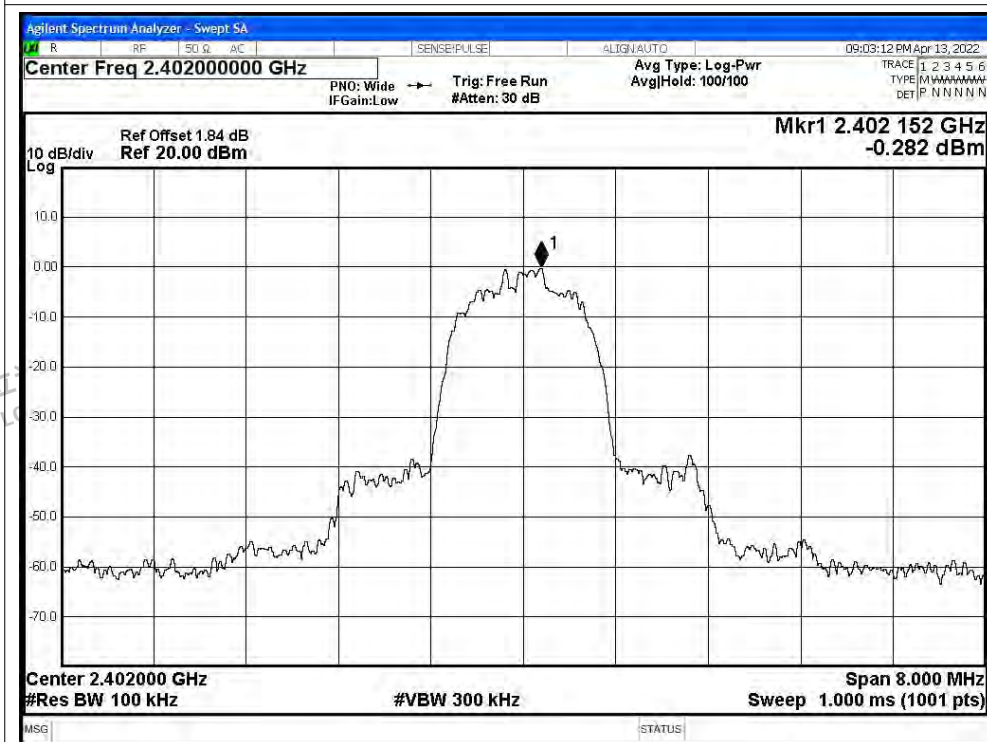
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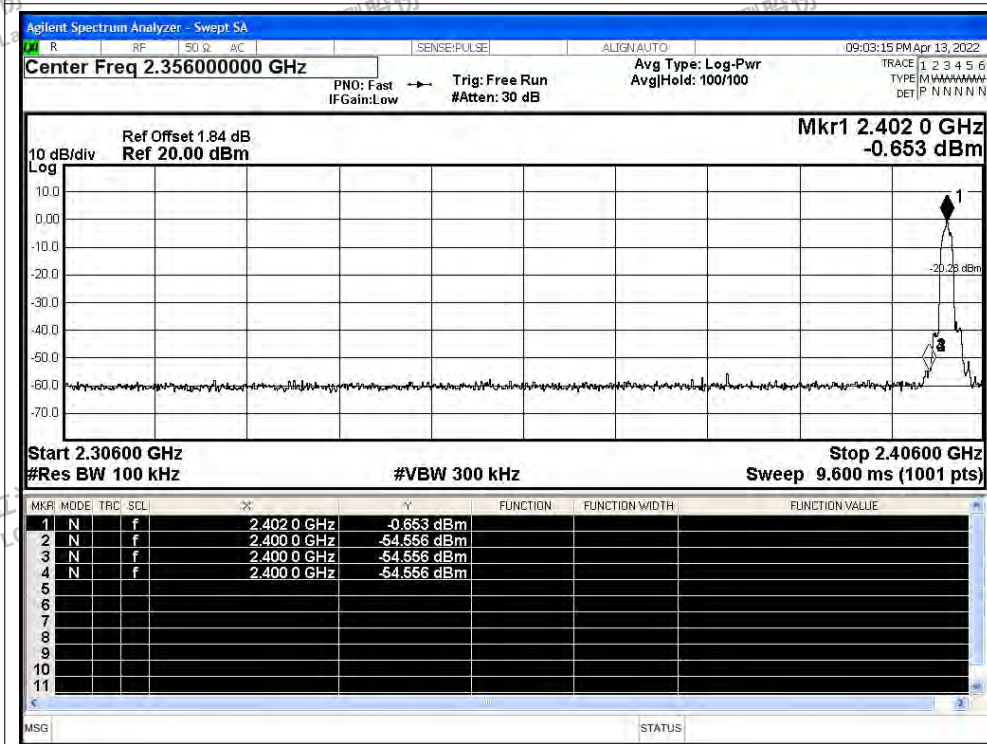
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Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



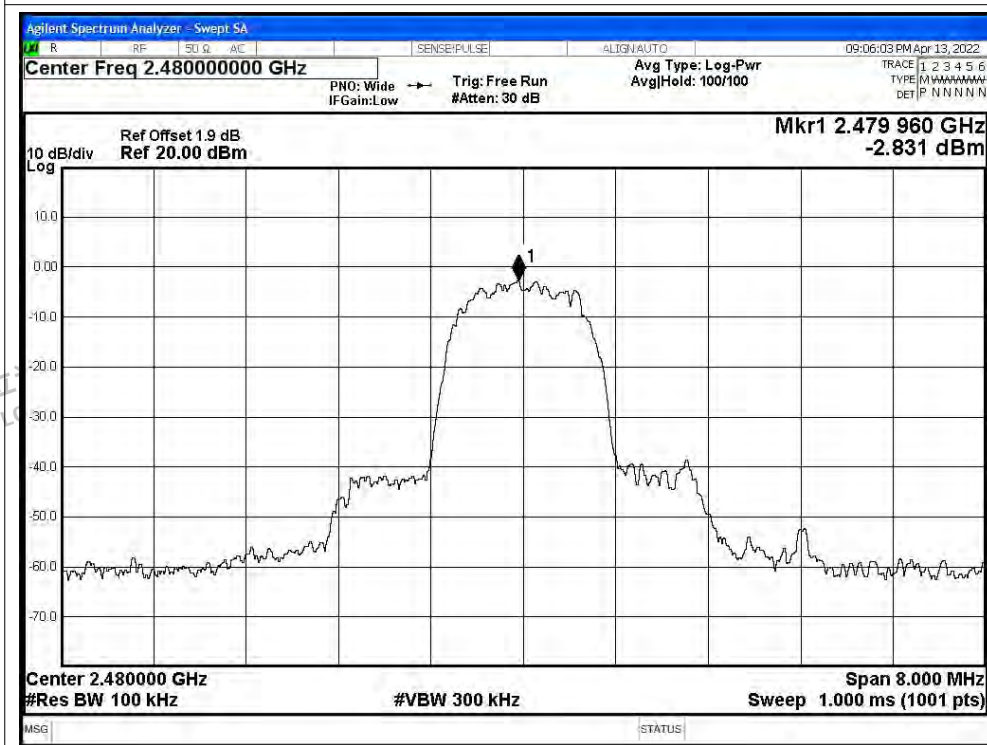
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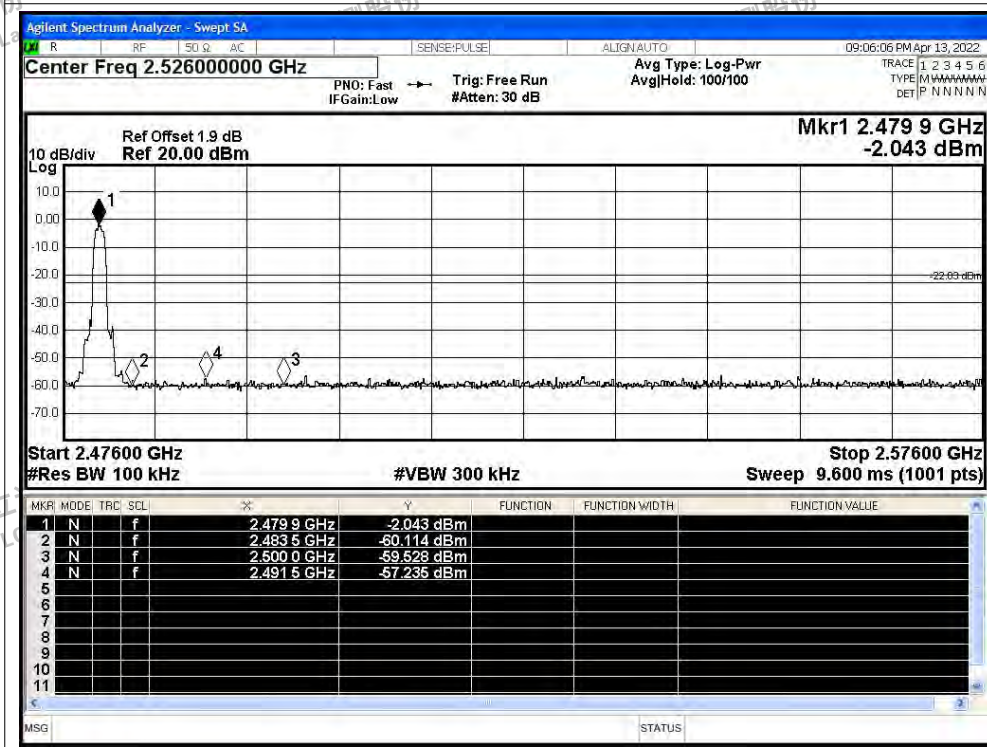
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



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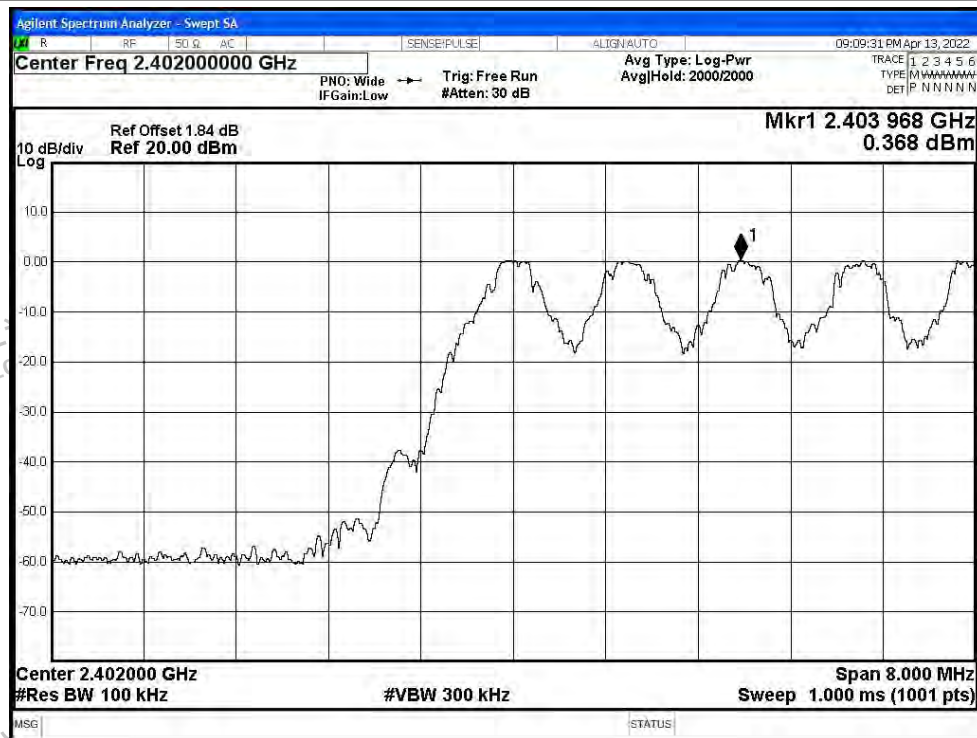
(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.28	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.4	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.49	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-56.57	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-55.78	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-56.44	-20	Pass

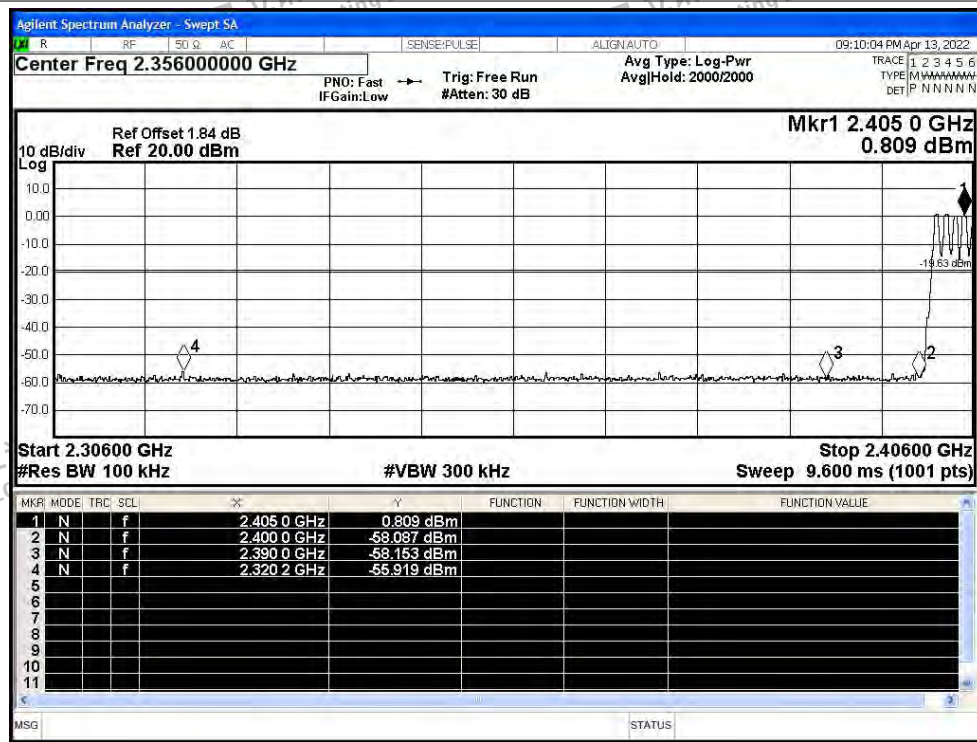


Test Graphs

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



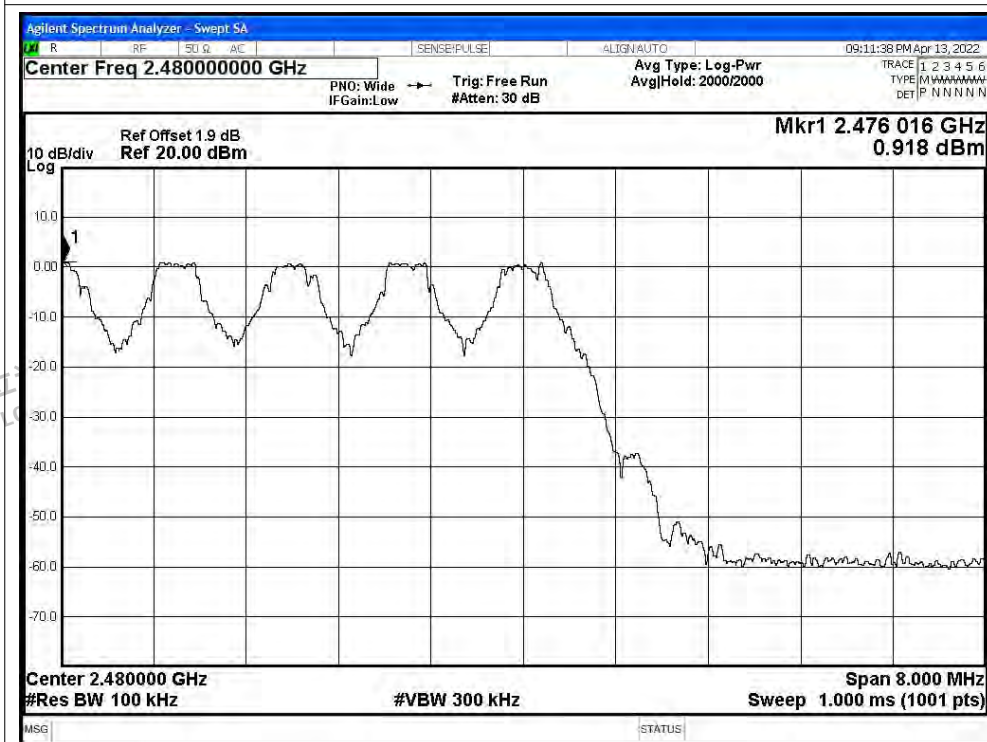
Shenzhen LCS Compliance Testing Laboratory Ltd.

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

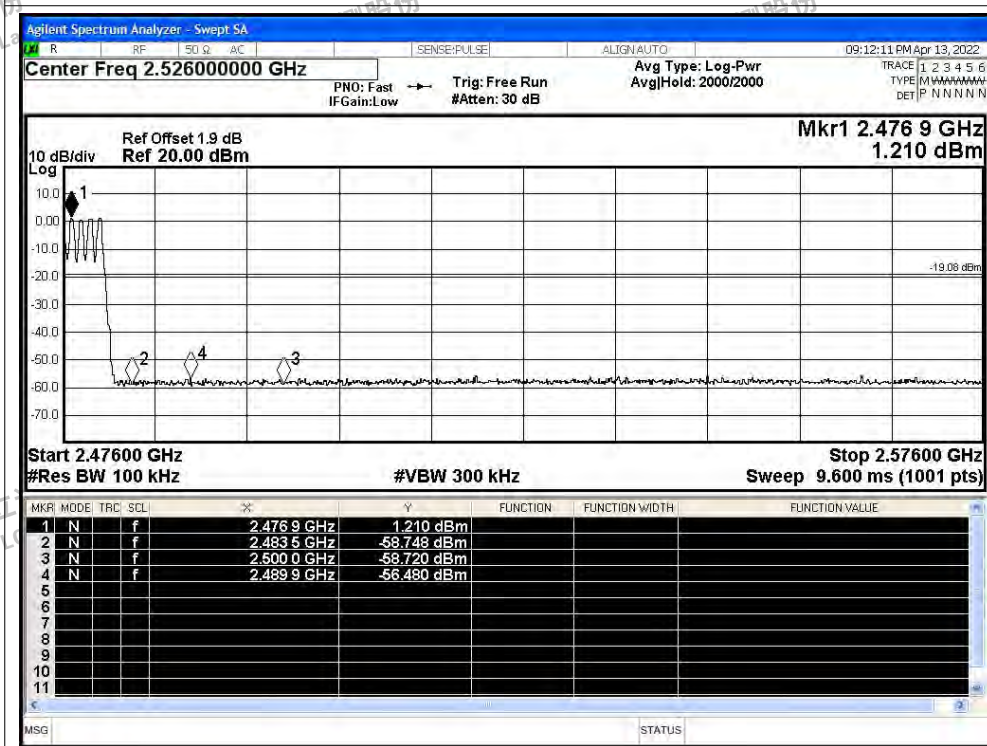
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

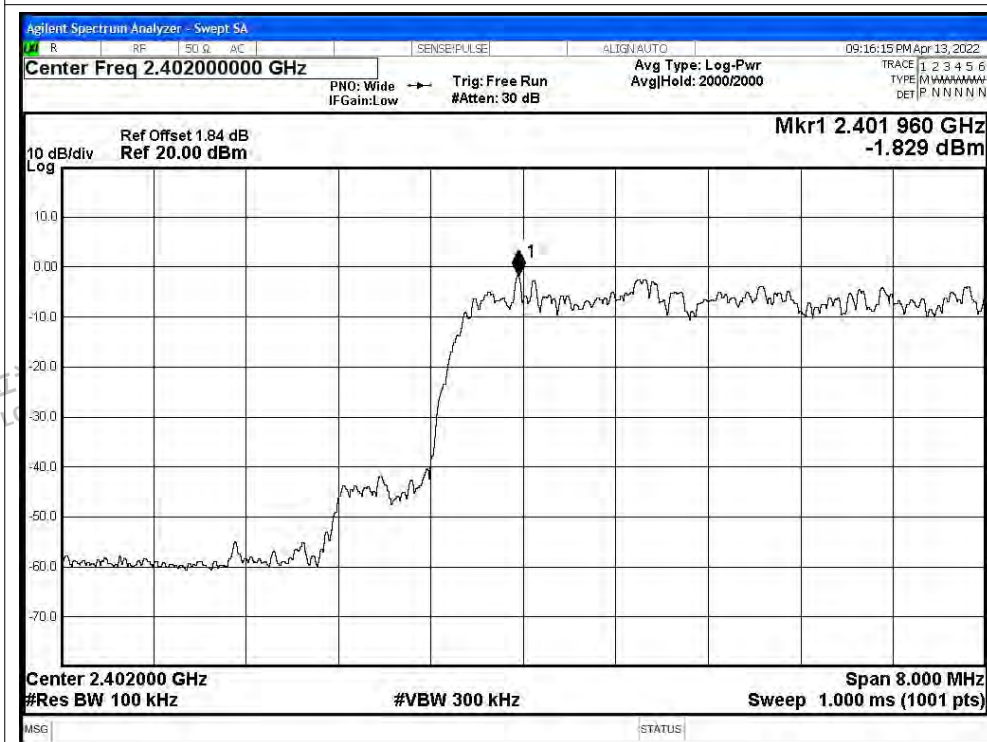
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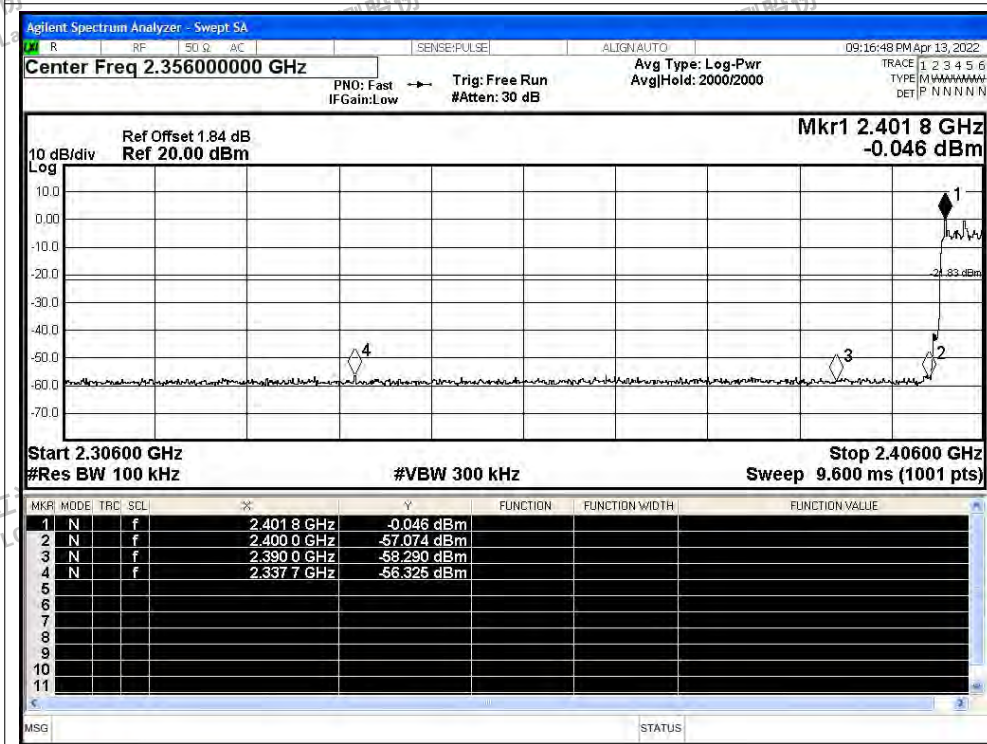
Scan code to check authenticity



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



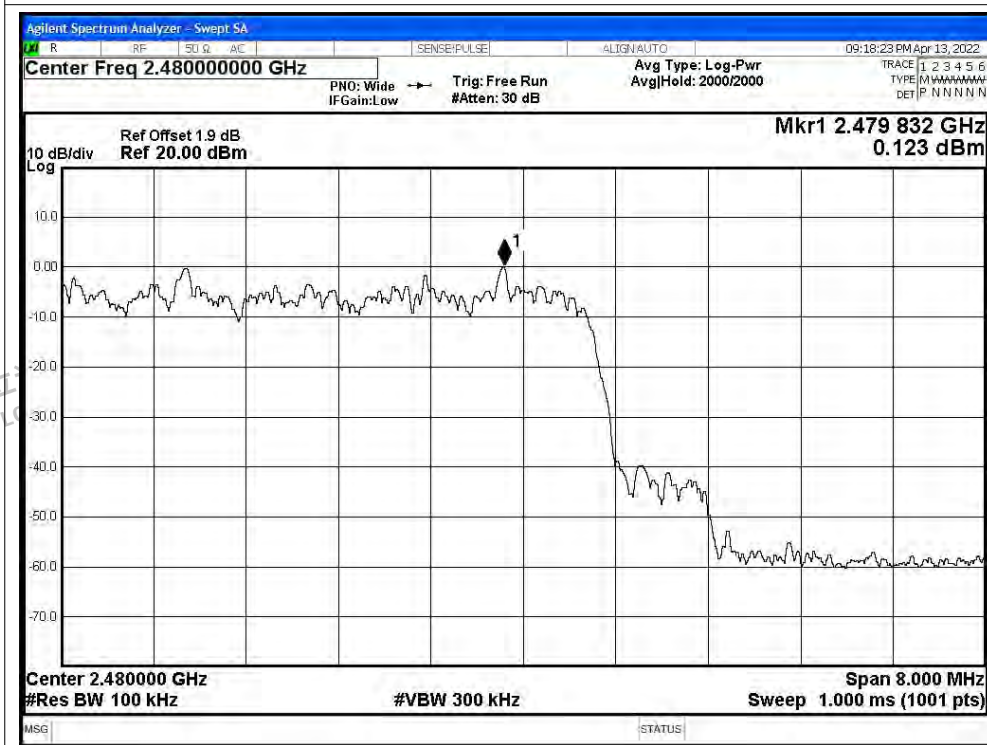
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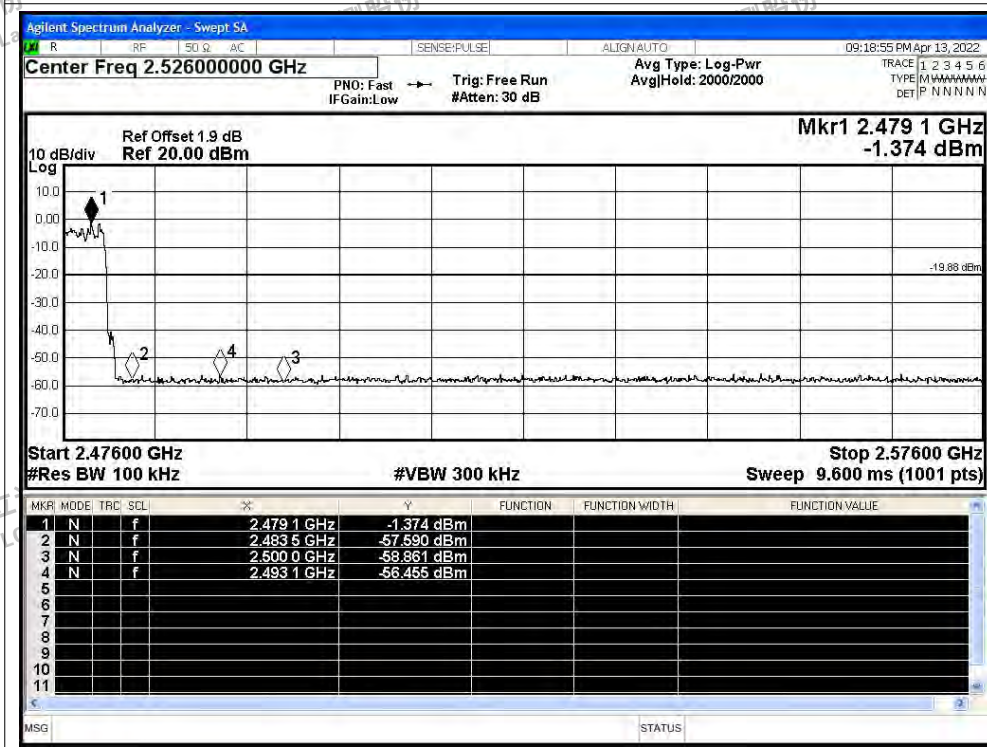
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Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



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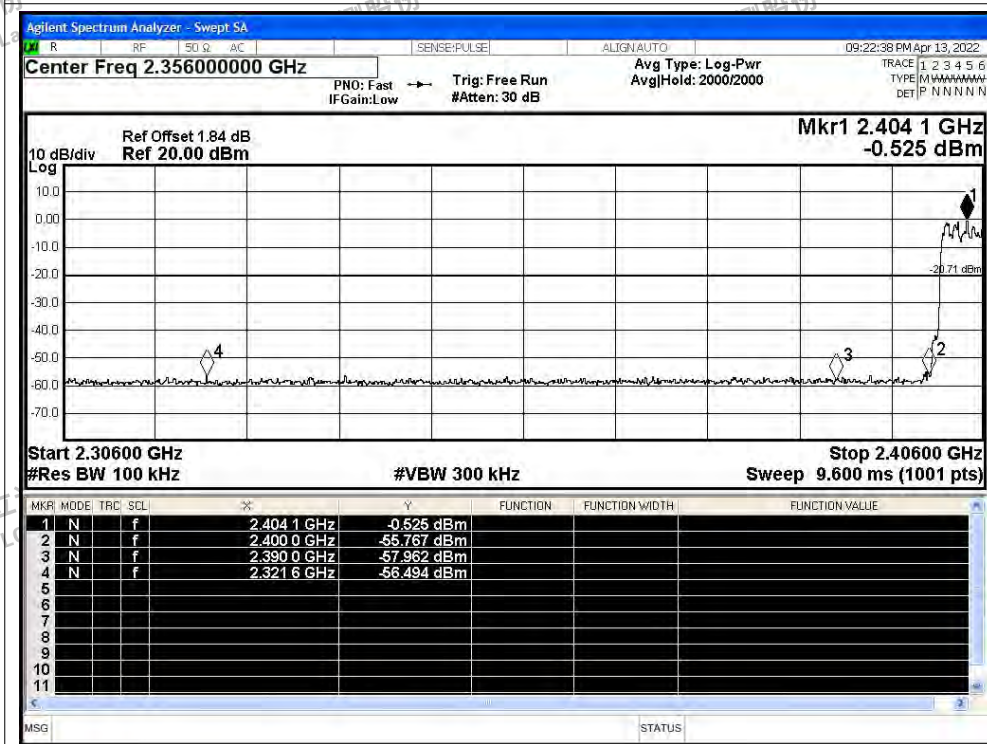
Scan code to check authenticity



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



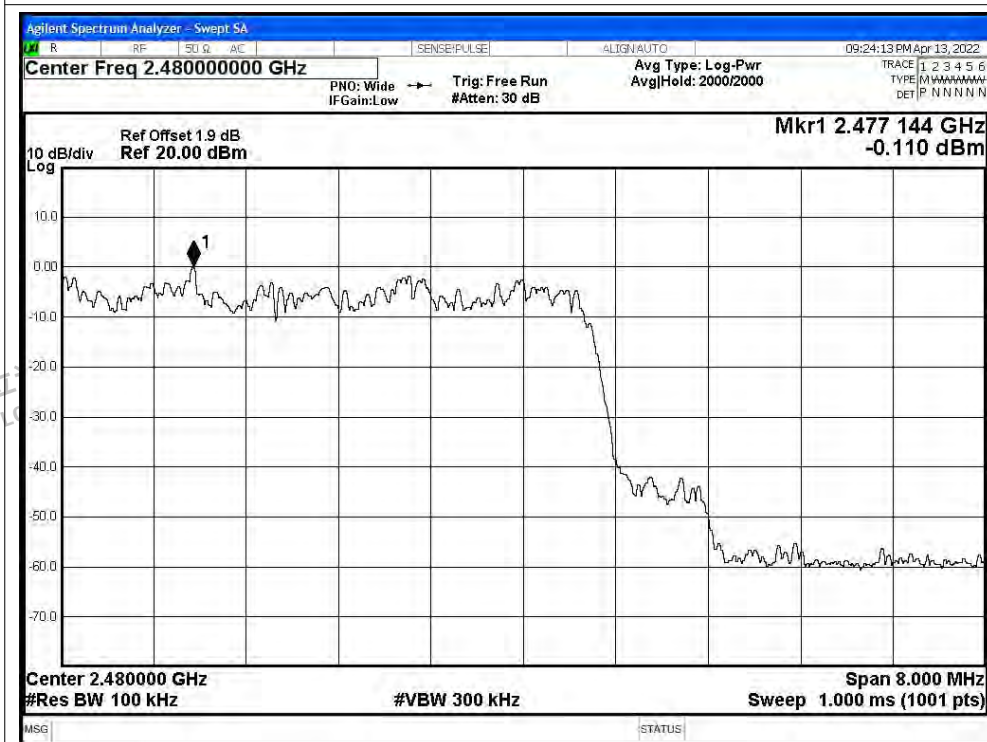
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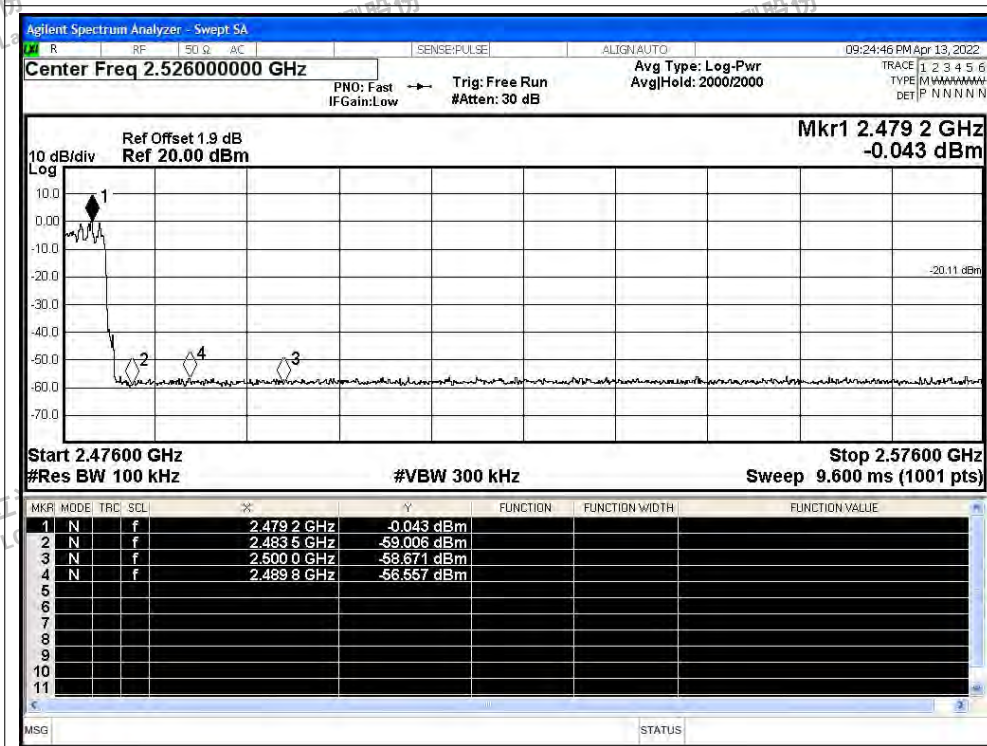
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Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission



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A.8 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-56.67	-20	Pass
NVNT	1-DH5	2441	Ant1	-57.4	-20	Pass
NVNT	1-DH5	2480	Ant1	-57.16	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.68	-20	Pass
NVNT	2-DH5	2441	Ant1	-56.41	-20	Pass
NVNT	2-DH5	2480	Ant1	-54.44	-20	Pass
NVNT	3-DH5	2402	Ant1	-55.31	-20	Pass
NVNT	3-DH5	2441	Ant1	-55.22	-20	Pass
NVNT	3-DH5	2480	Ant1	-55.34	-20	Pass



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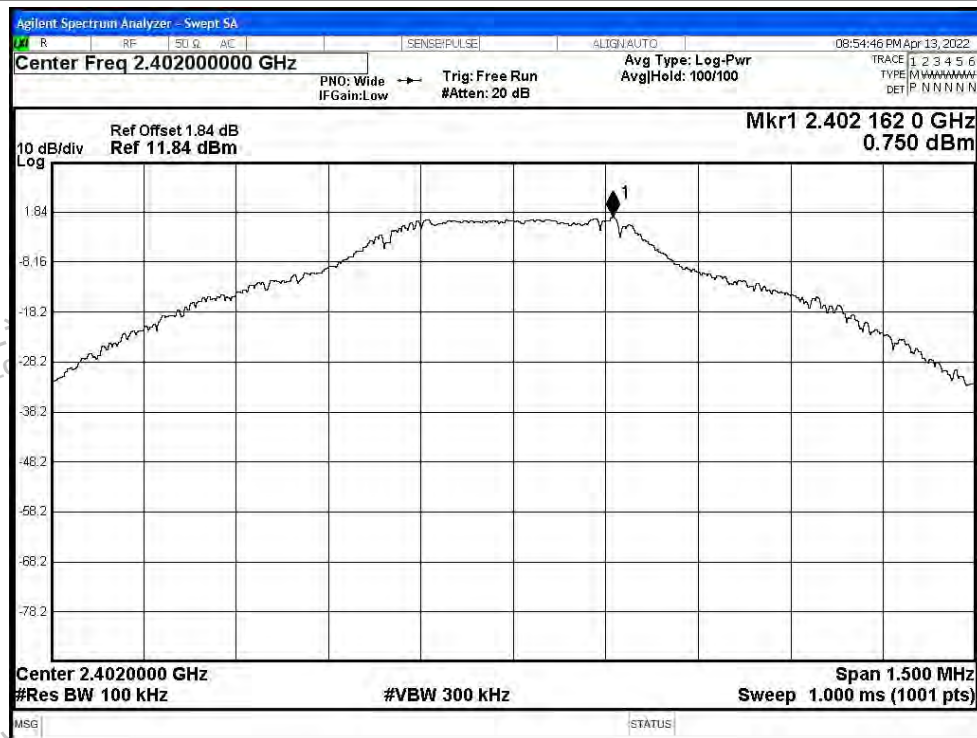
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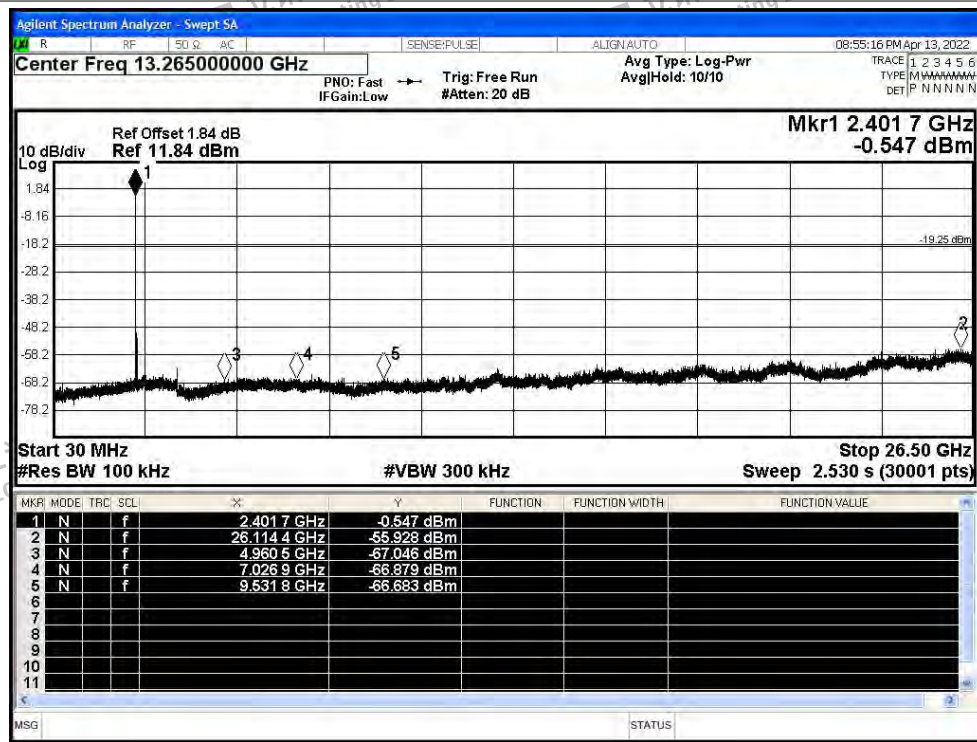
Scan code to check authenticity

Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



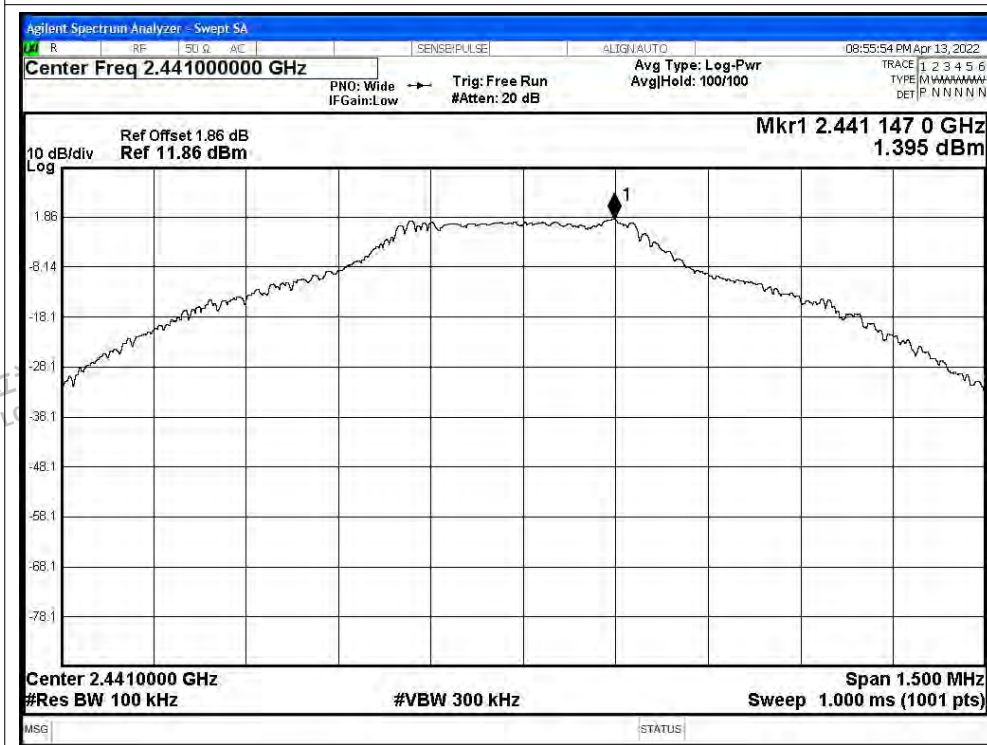
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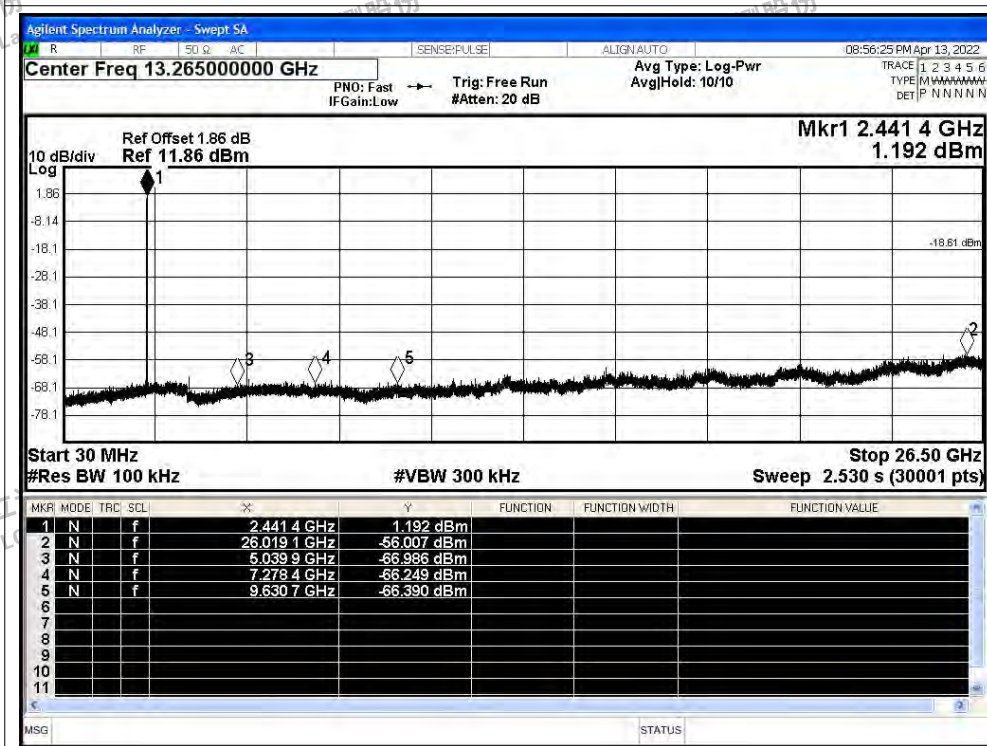
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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



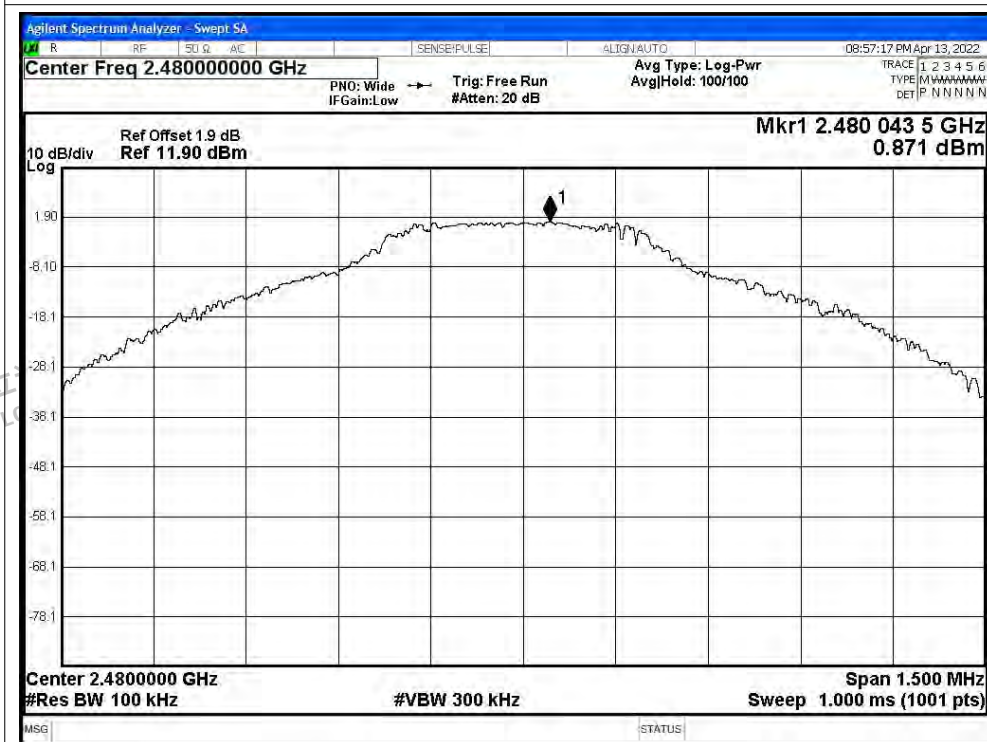
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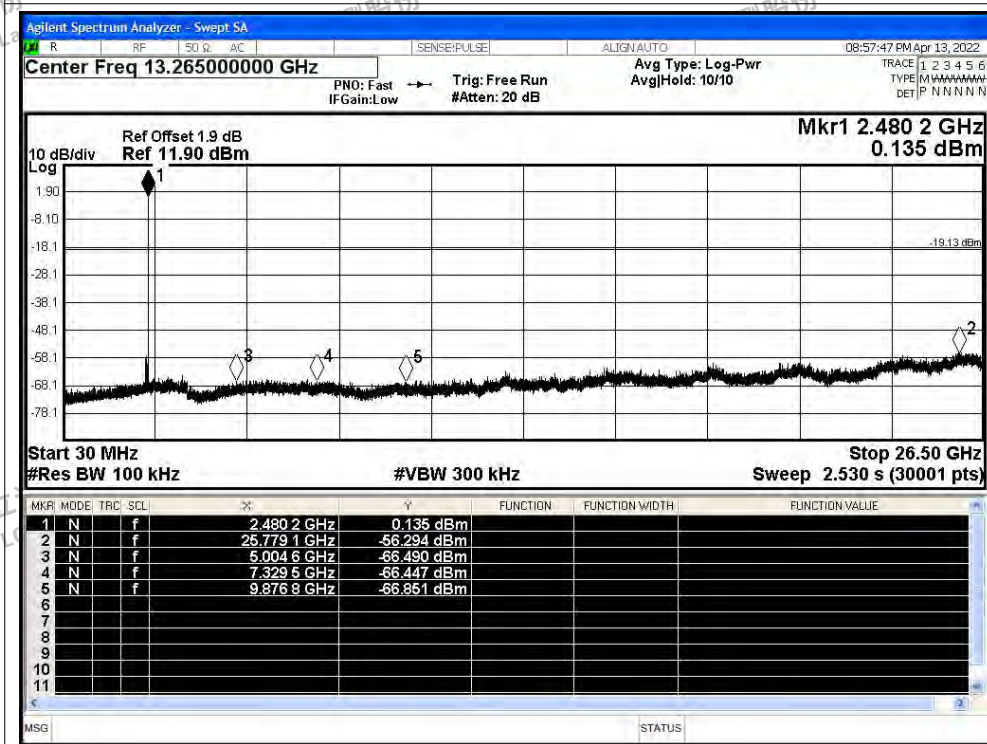
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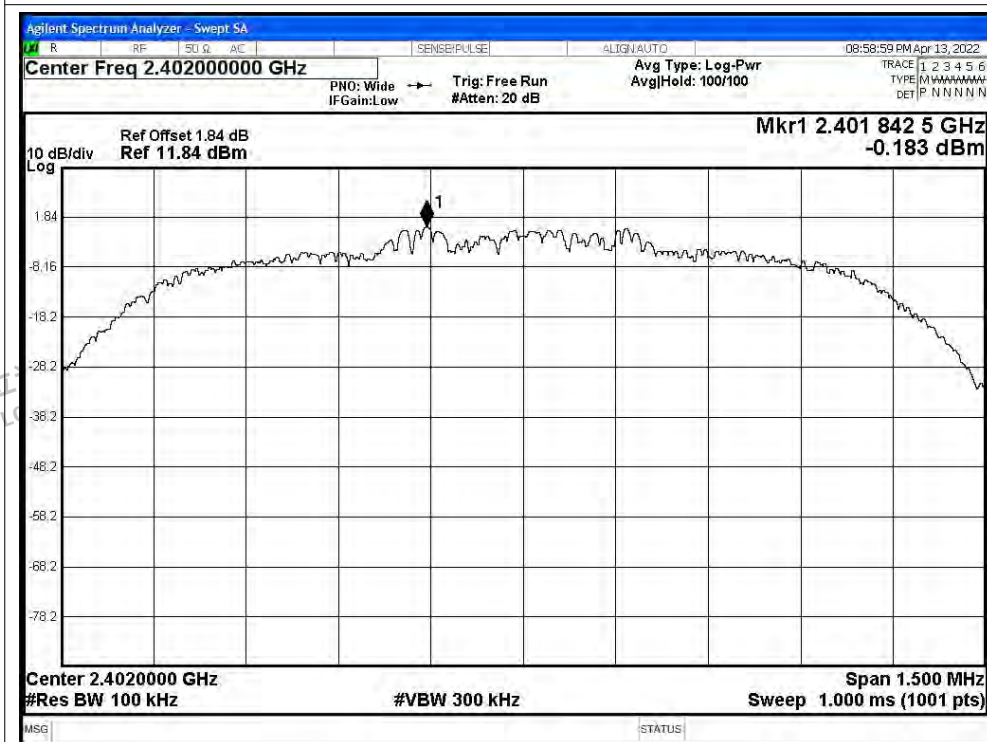
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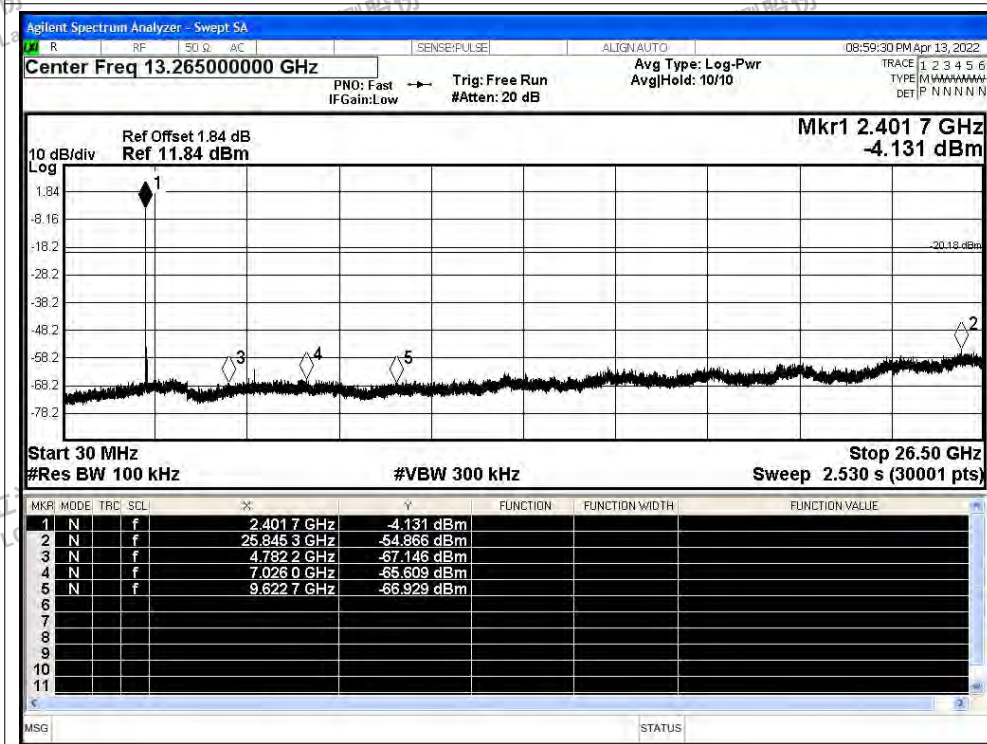
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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



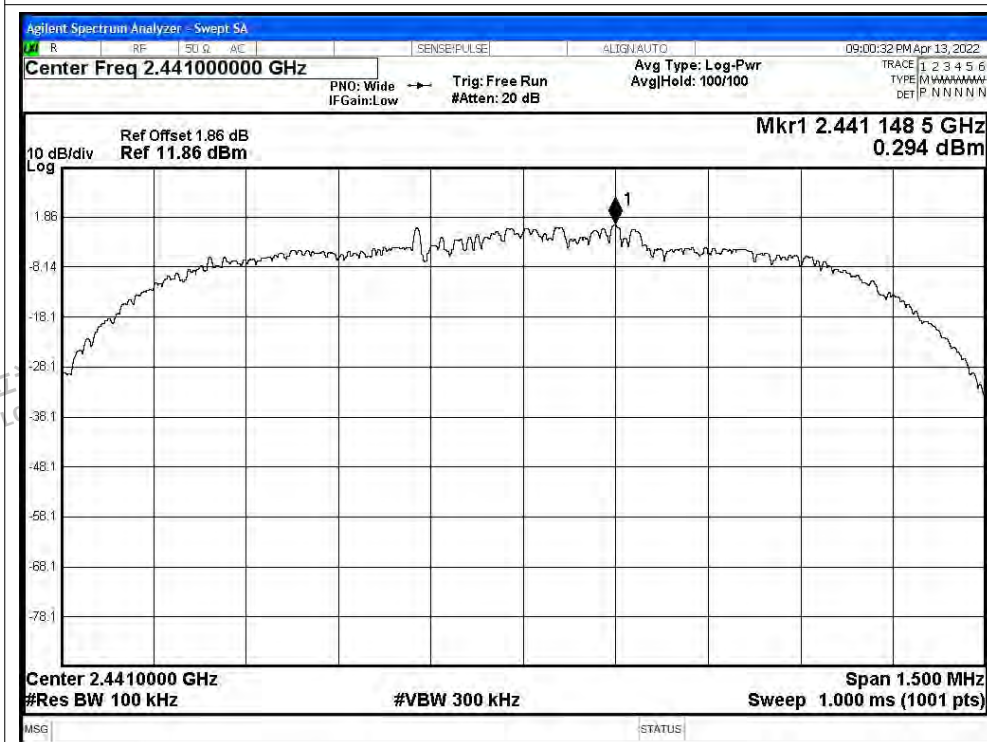
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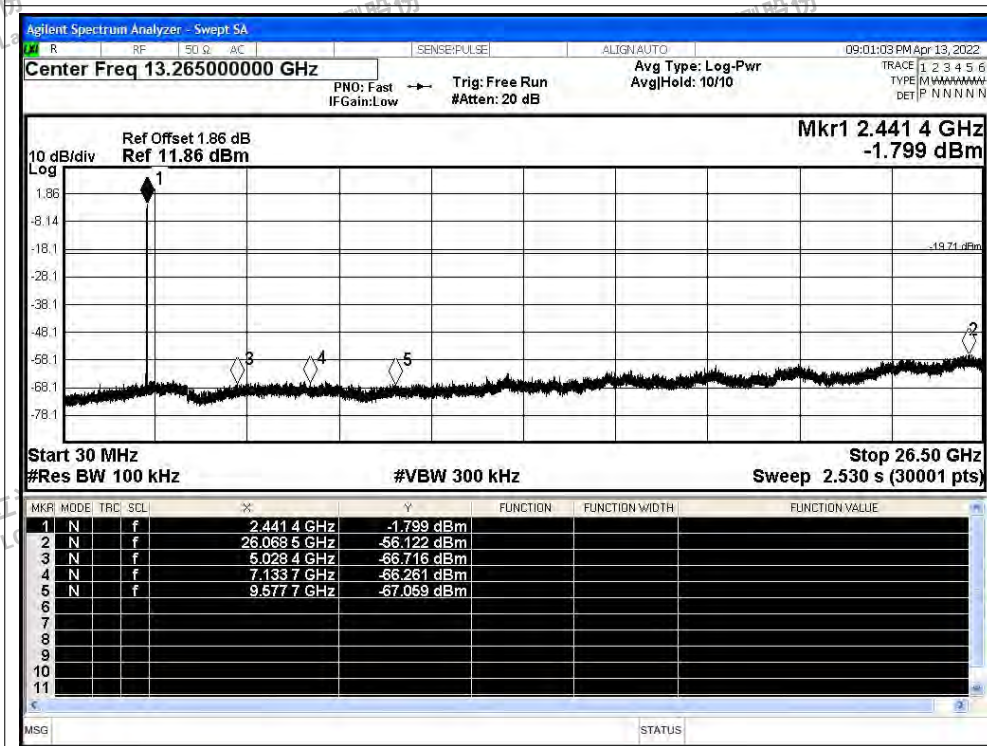
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

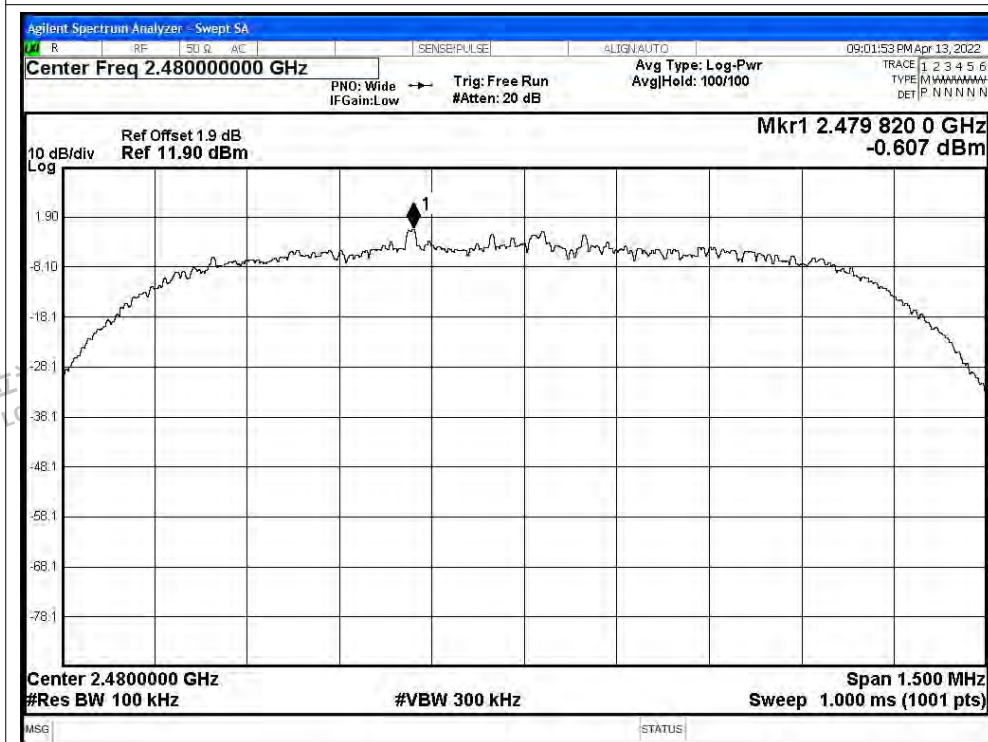
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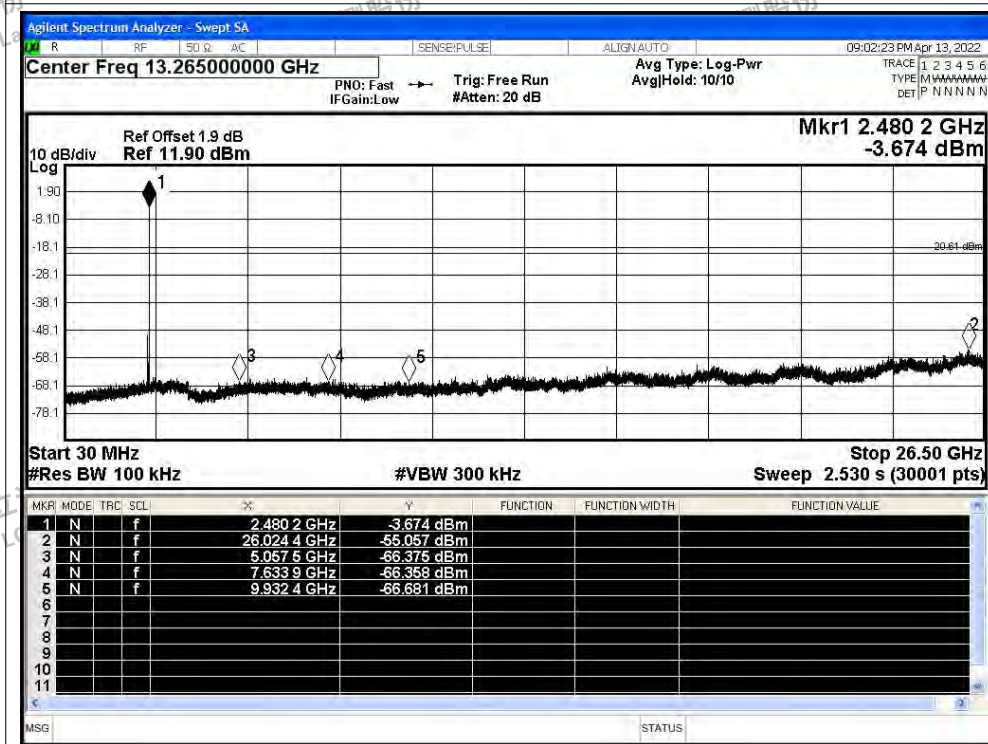
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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



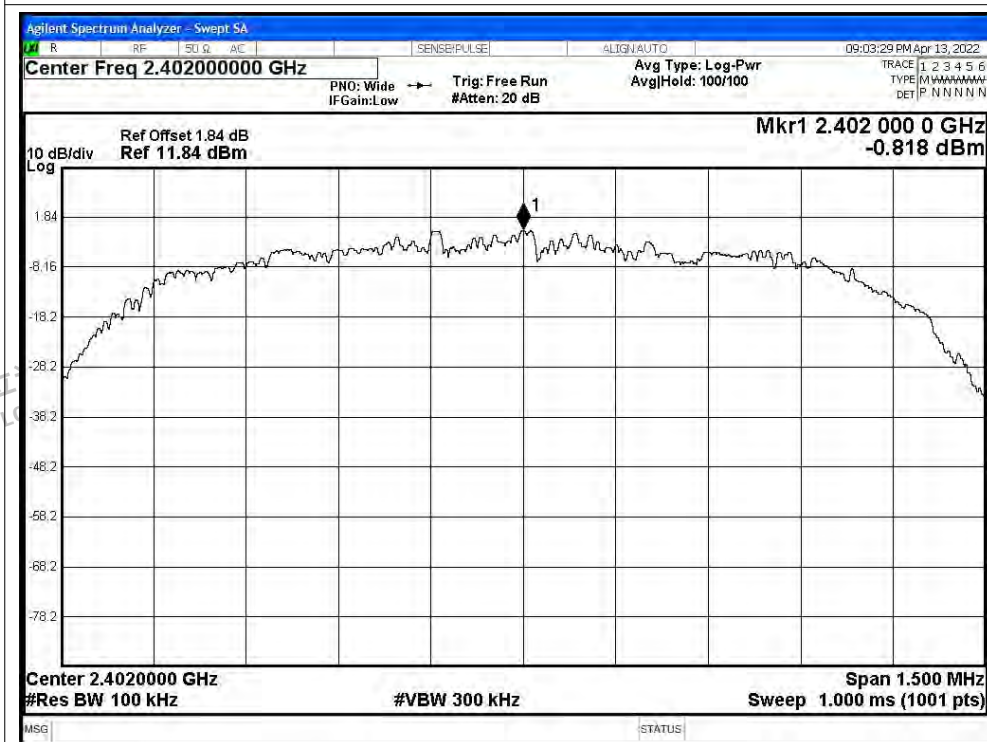
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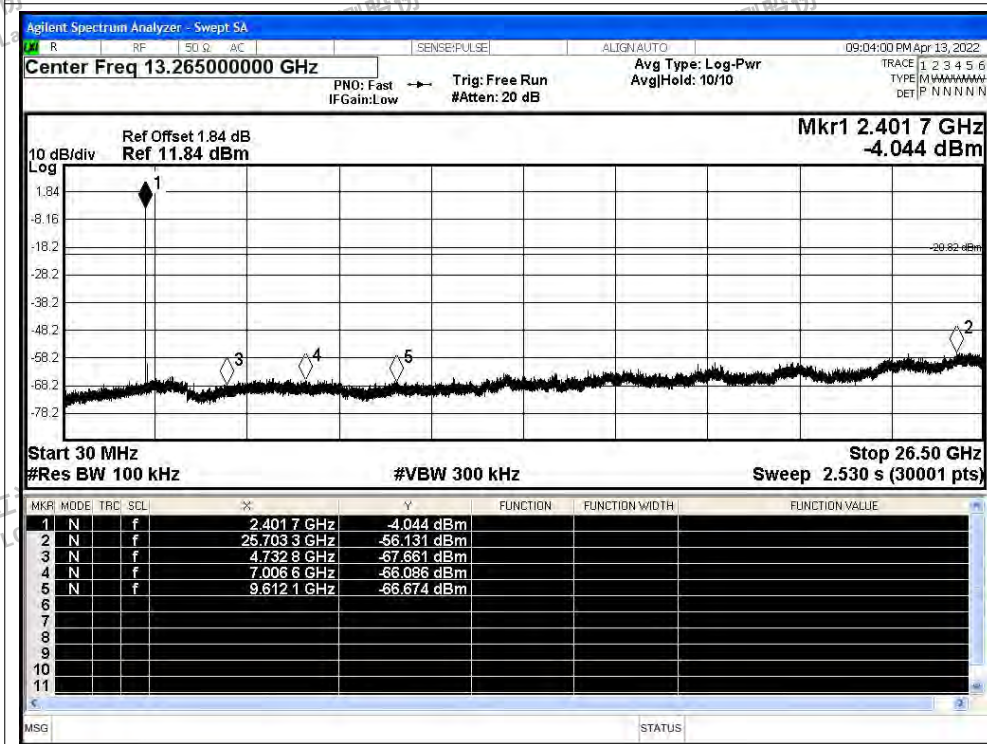
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Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



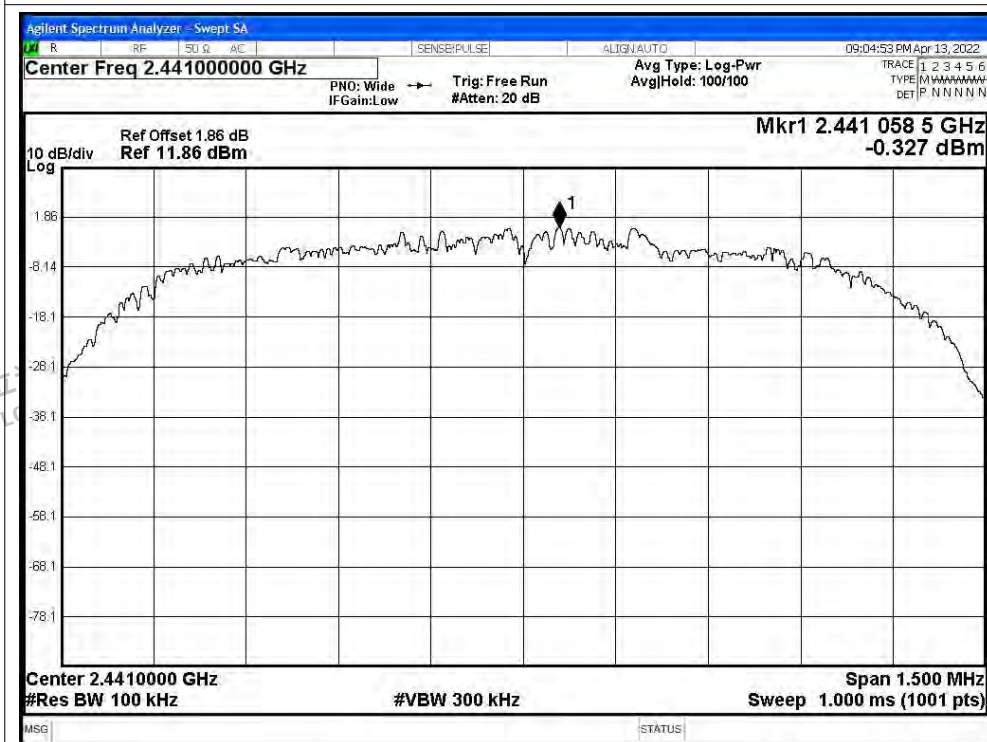
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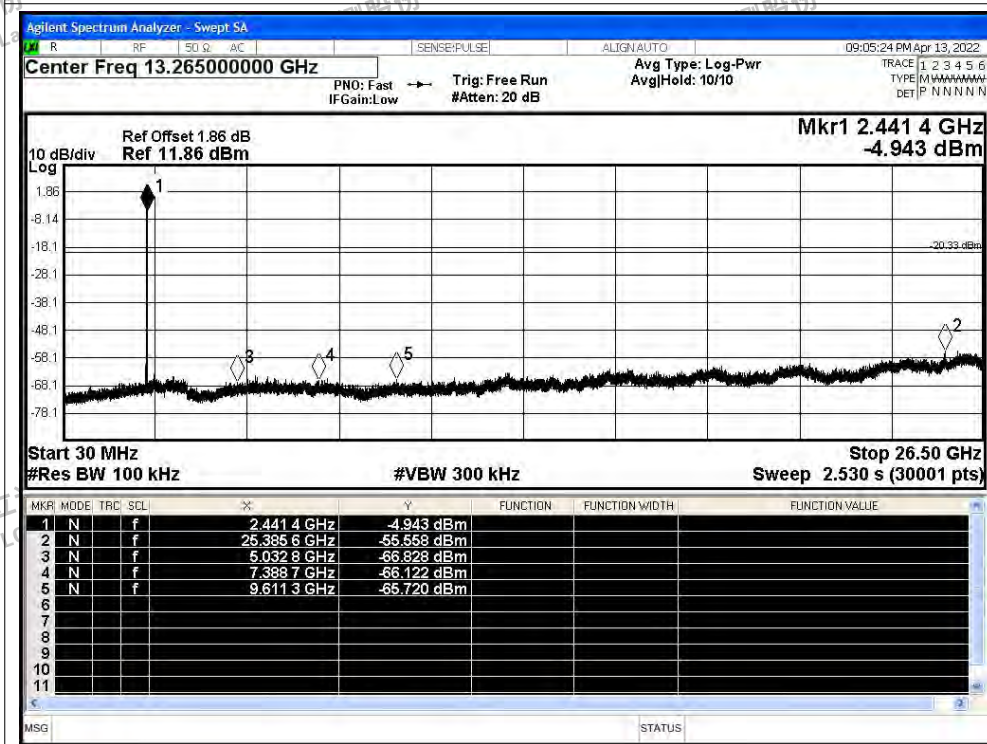
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Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



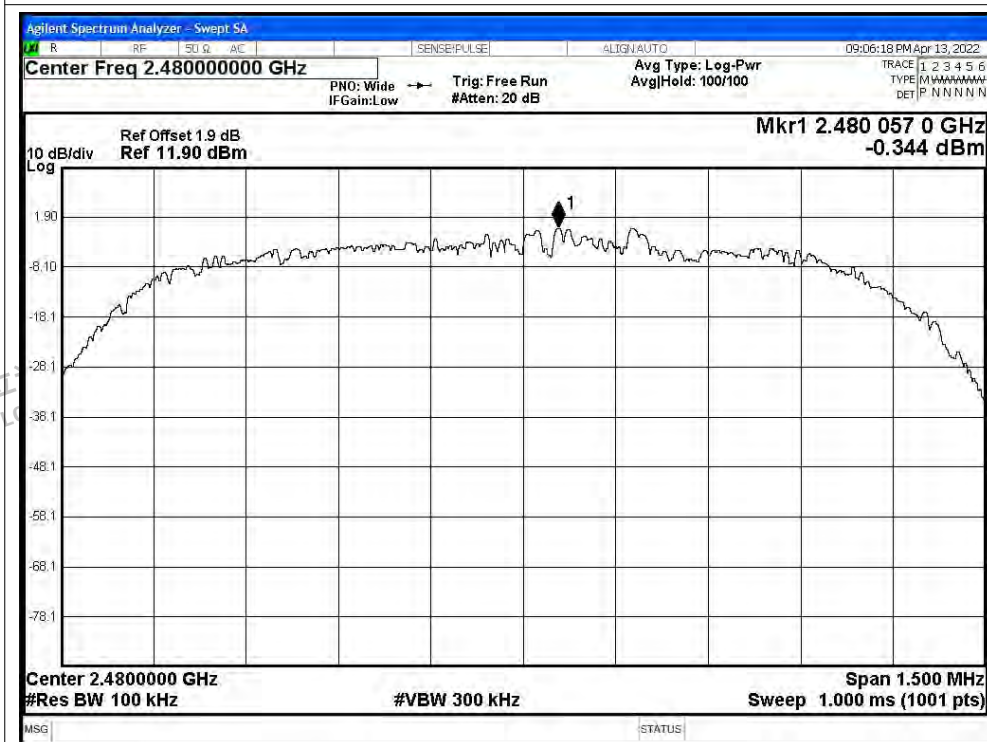
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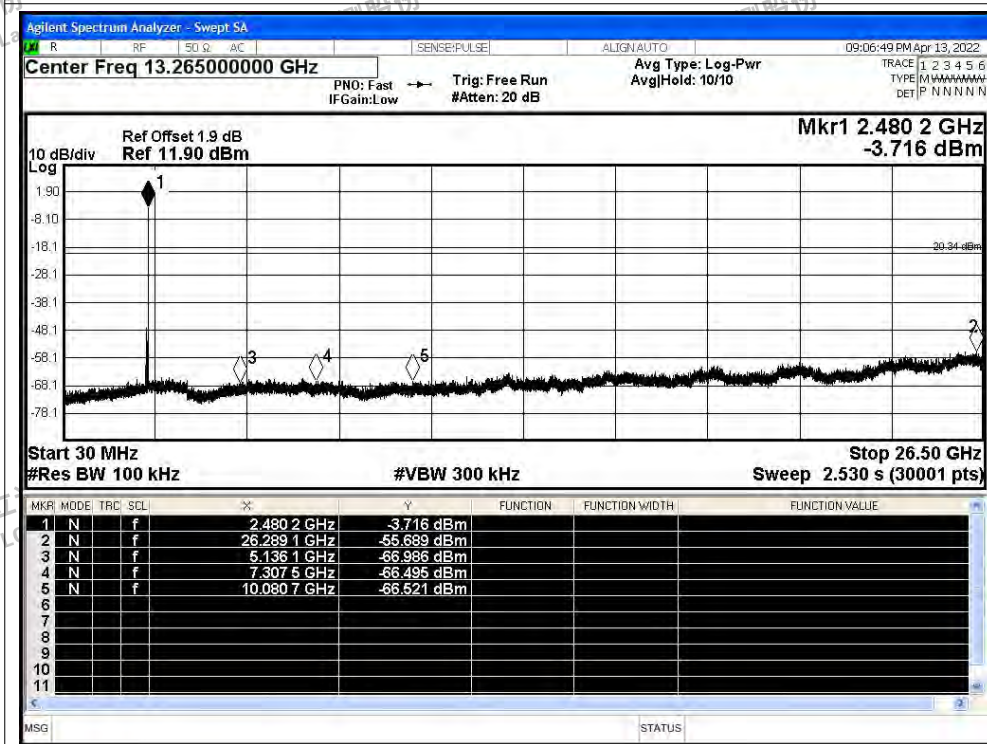
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Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

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A.9 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.85	2	46.41	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.83	2	36.43	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2315.28	-47.59	2	49.67	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2372.016	-60.16	2	37.1	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.64	2	45.62	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.41	2	36.85	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.62	2	47.64	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.91	2	37.35	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2486.392	-47.07	2	50.19	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.848	-59.79	2	37.47	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.66	2	46.6	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-60.2	2	37.06	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.62	2	47.64	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.66	2	36.6	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2360.976	-47.1	2	50.16	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2387.184	-60.21	2	37.05	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.93	2	46.33	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.4	2	36.86	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.4	2	46.86	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.83	2	37.43	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2490.808	-47.46	2	49.8	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.56	-59.77	2	37.49	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.8	2	46.46	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-60.18	2	37.08	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.05	2	46.21	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.85	2	36.41	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2368.464	-47.74	2	49.52	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2386.32	-60.24	2	37.02	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-48	2	49.26	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.44	2	36.82	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-51.61	2	45.65	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.78	2	37.48	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2488.408	-46.4	2	50.86	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2499.04	-59.69	2	37.57	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.87	2	46.39	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.99	2	37.27	Average	54	Pass



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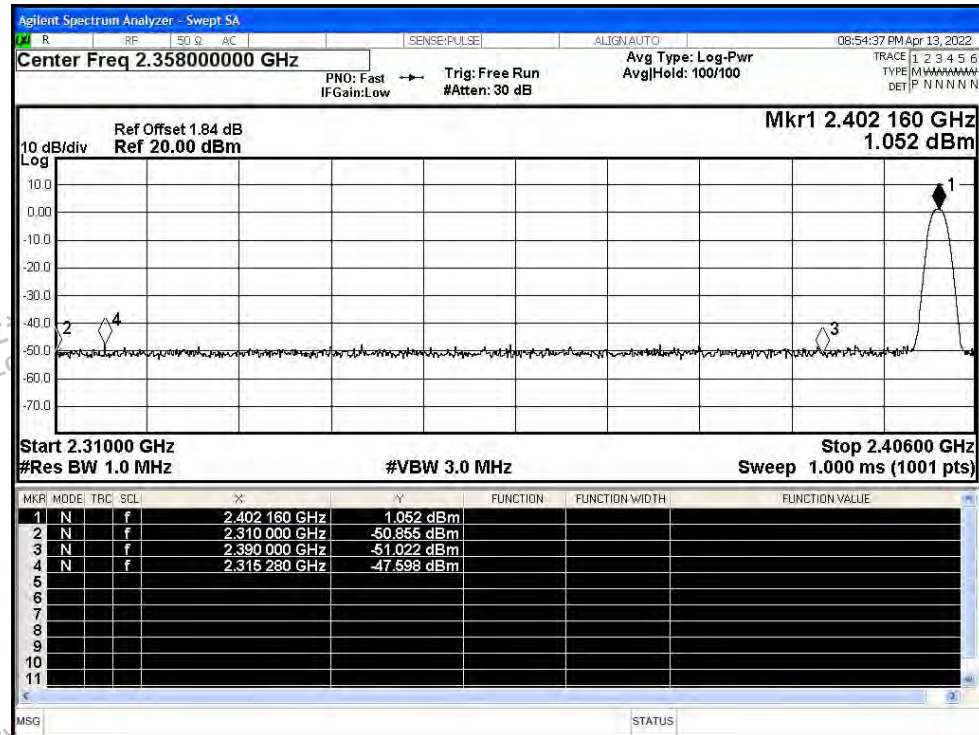
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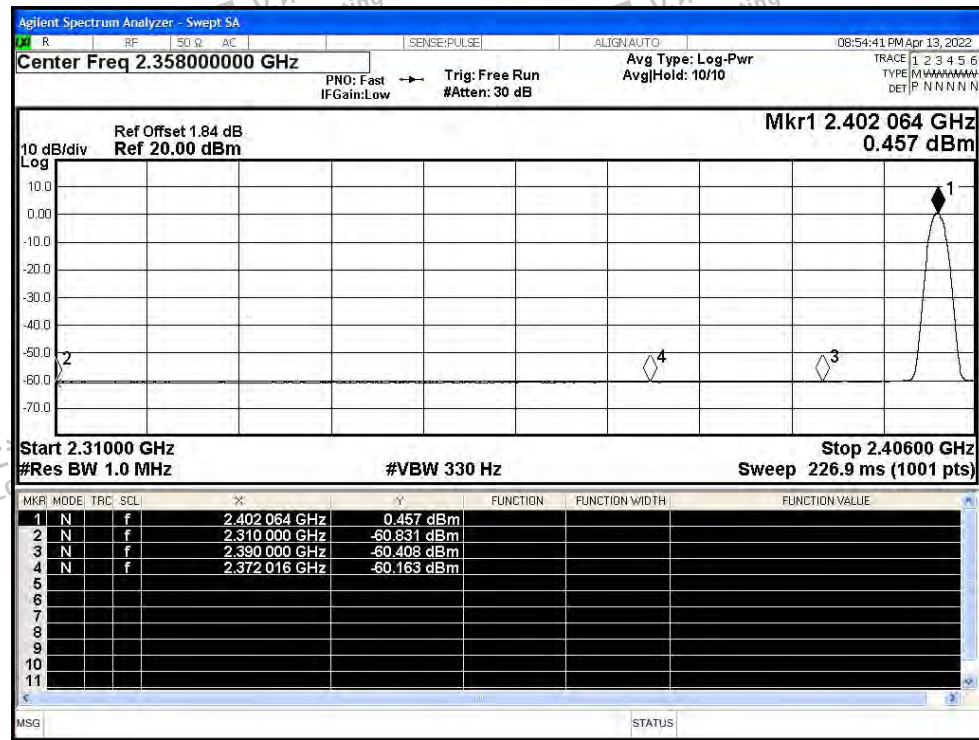
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Test Graphs

Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



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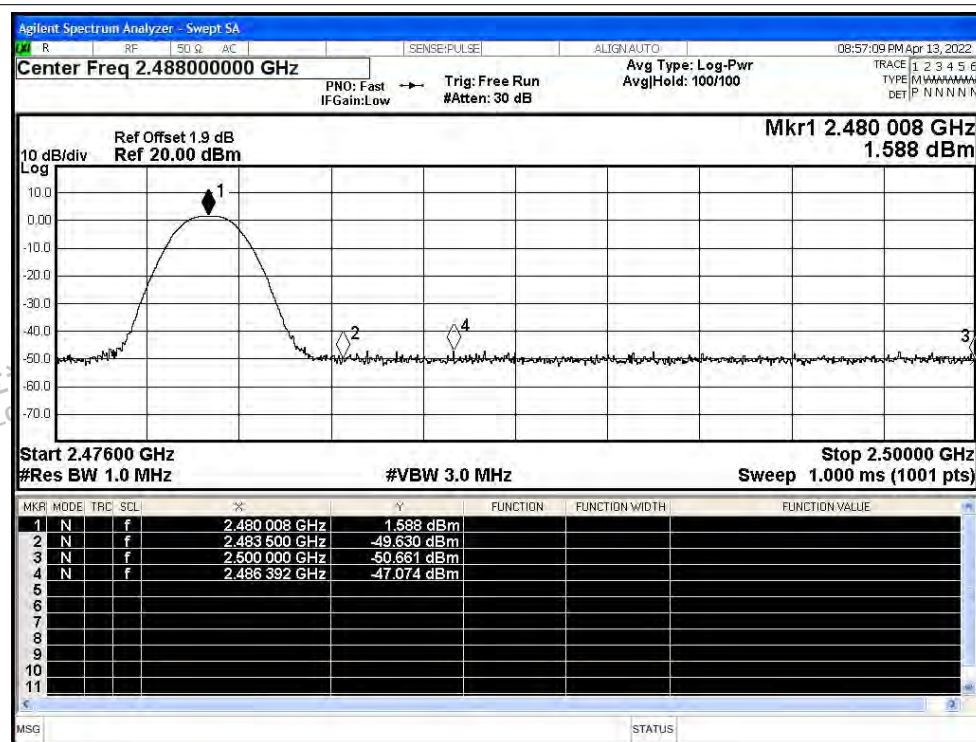
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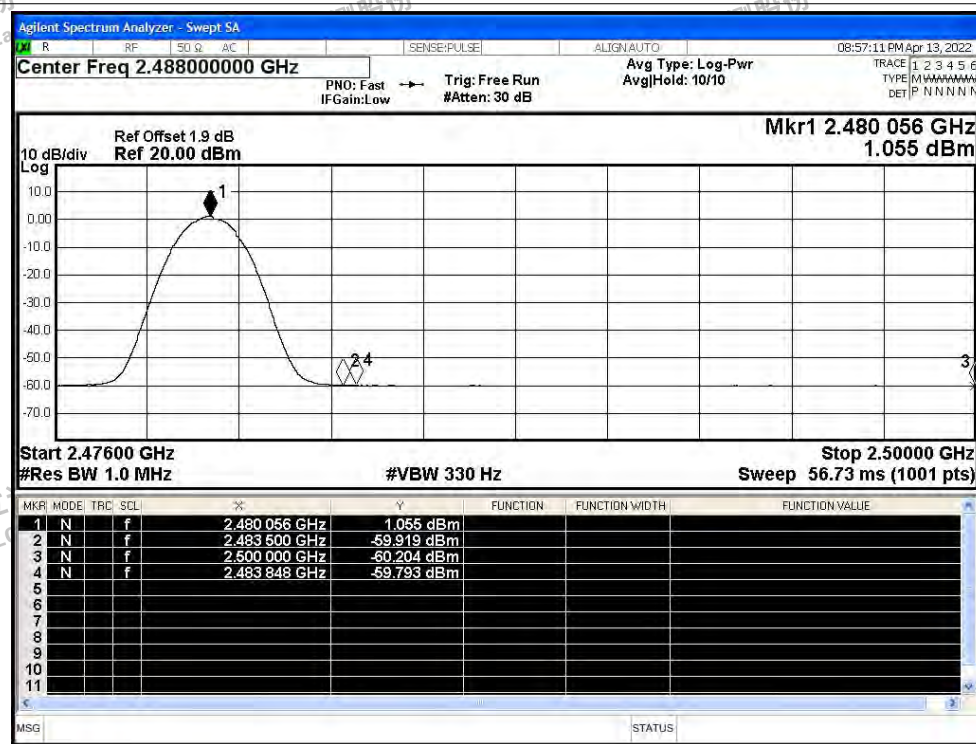
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



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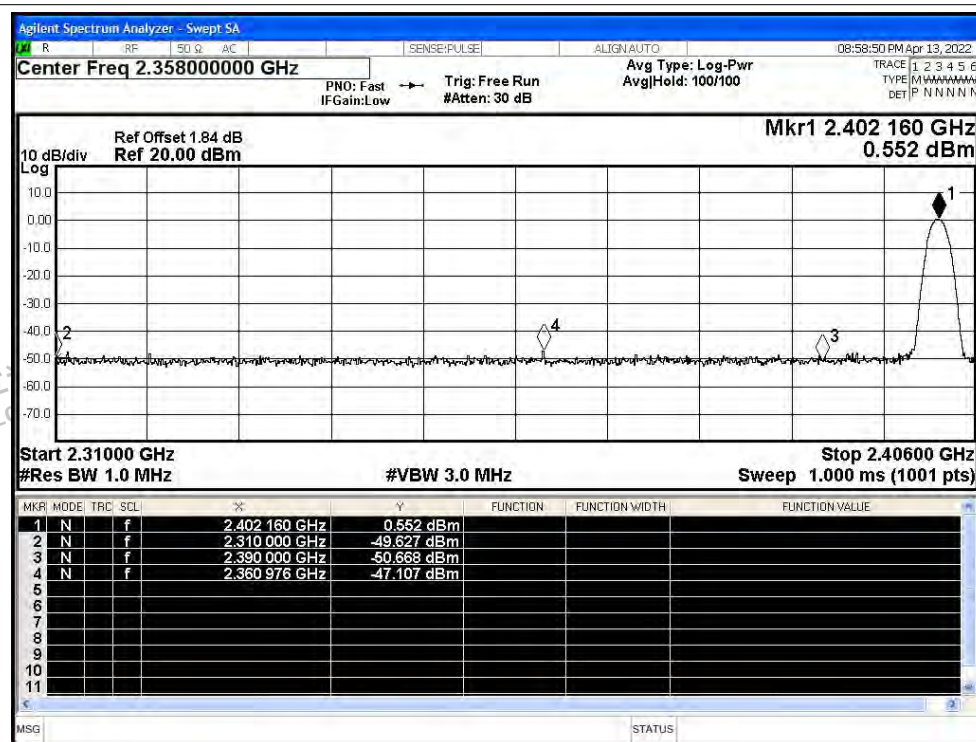
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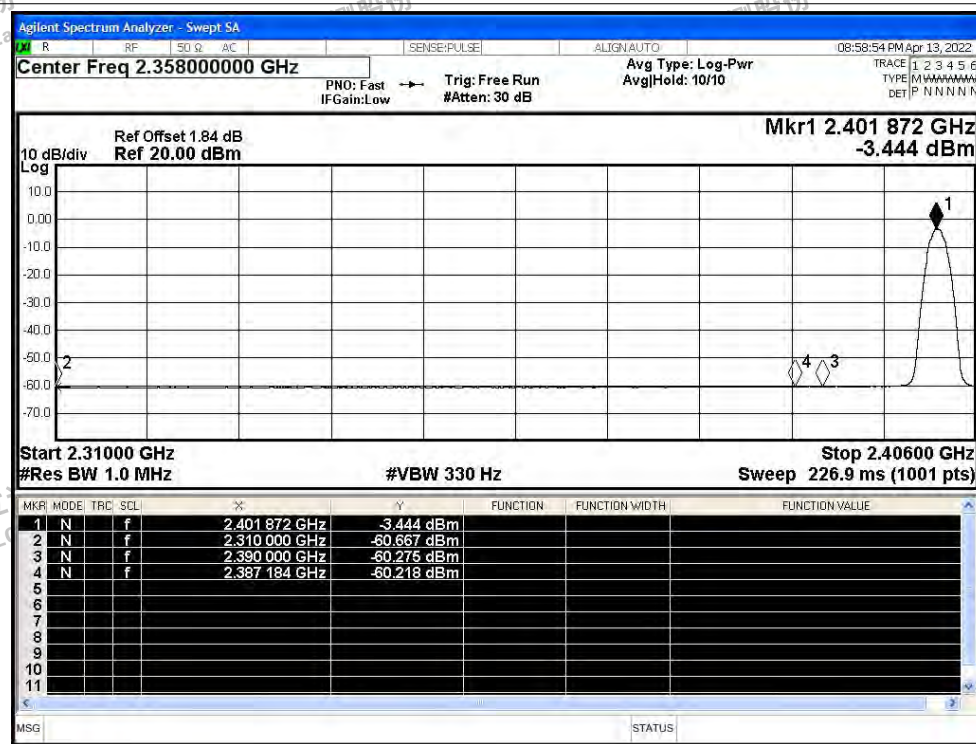
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Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average



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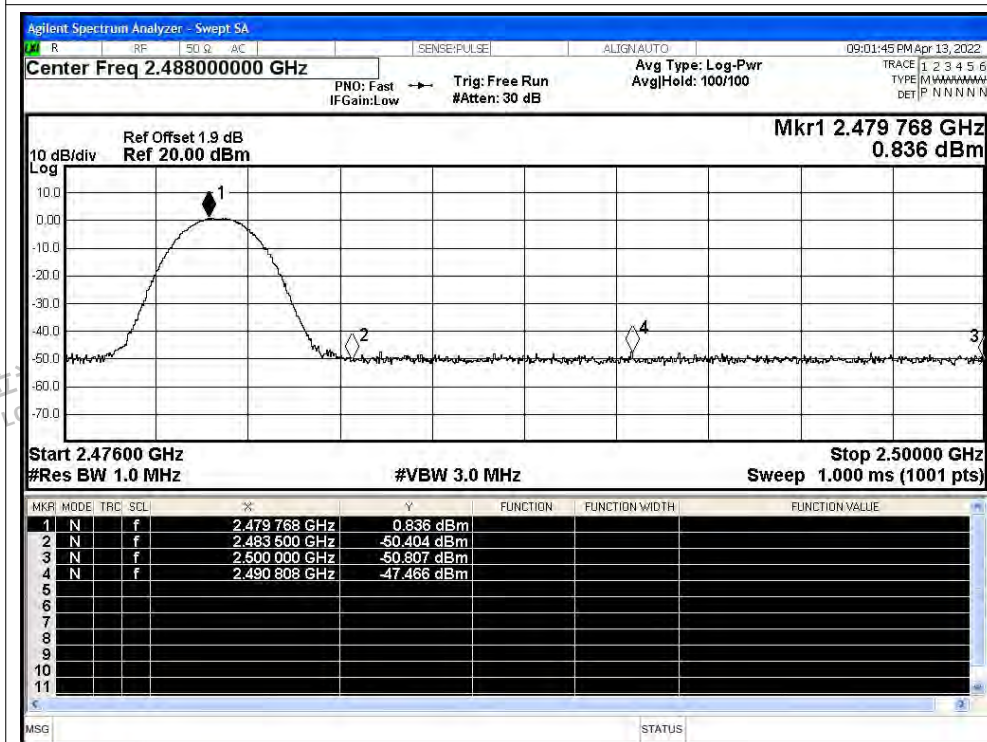
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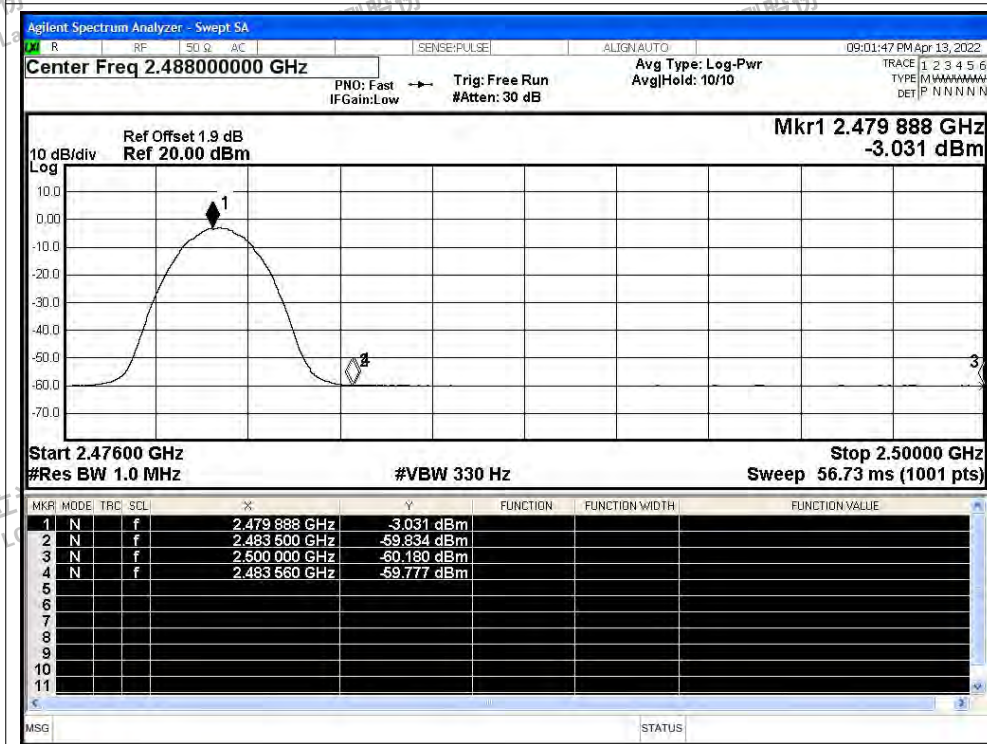
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average



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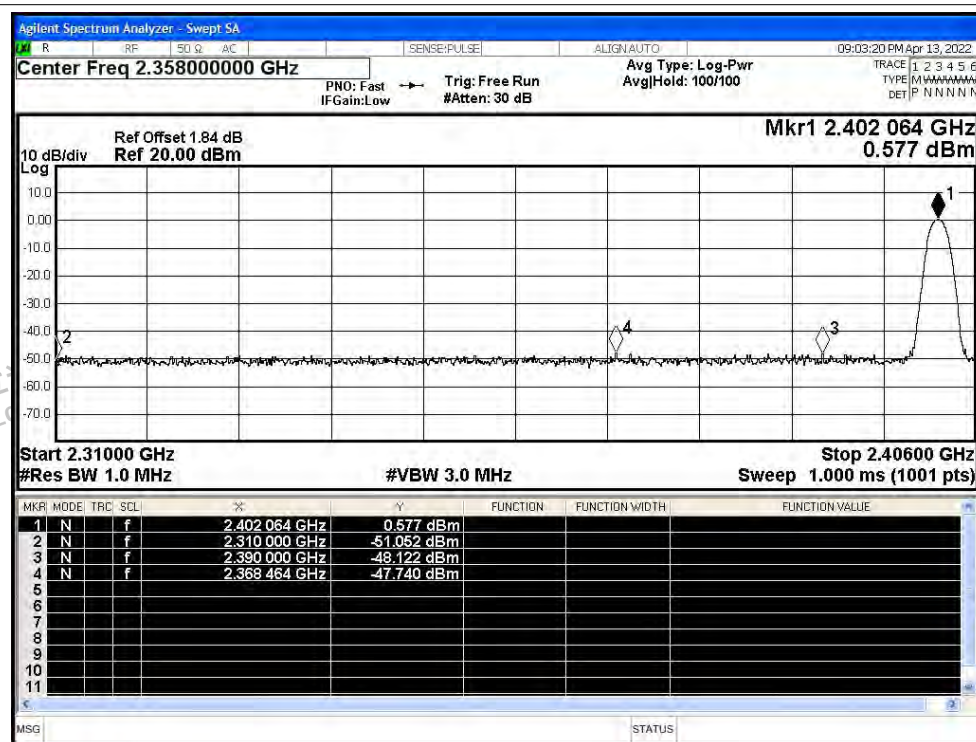
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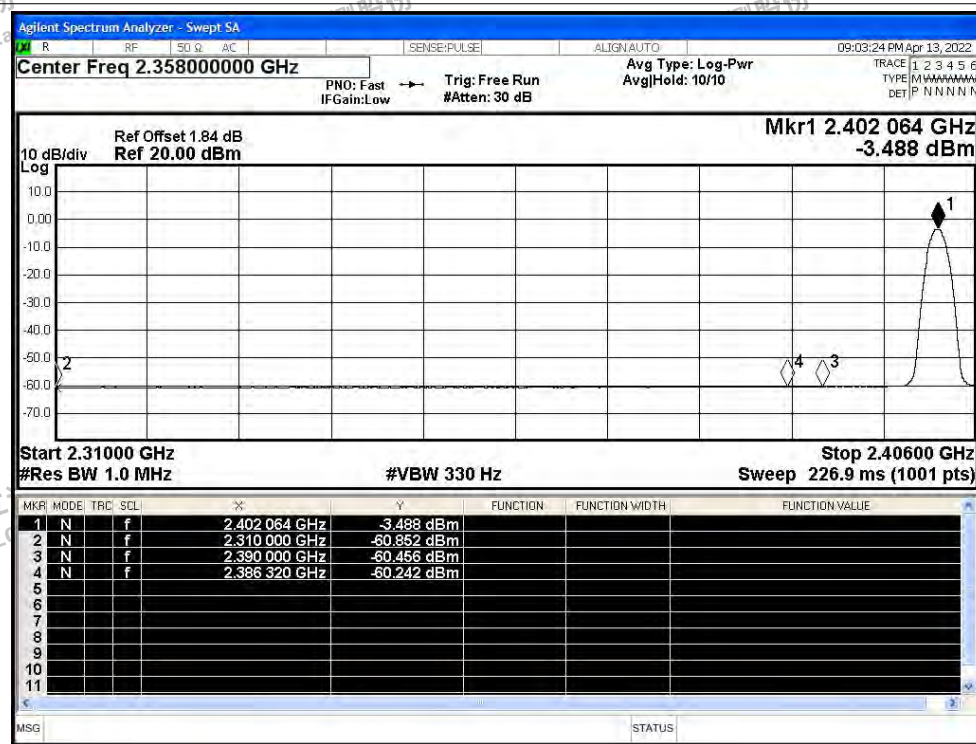
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Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average



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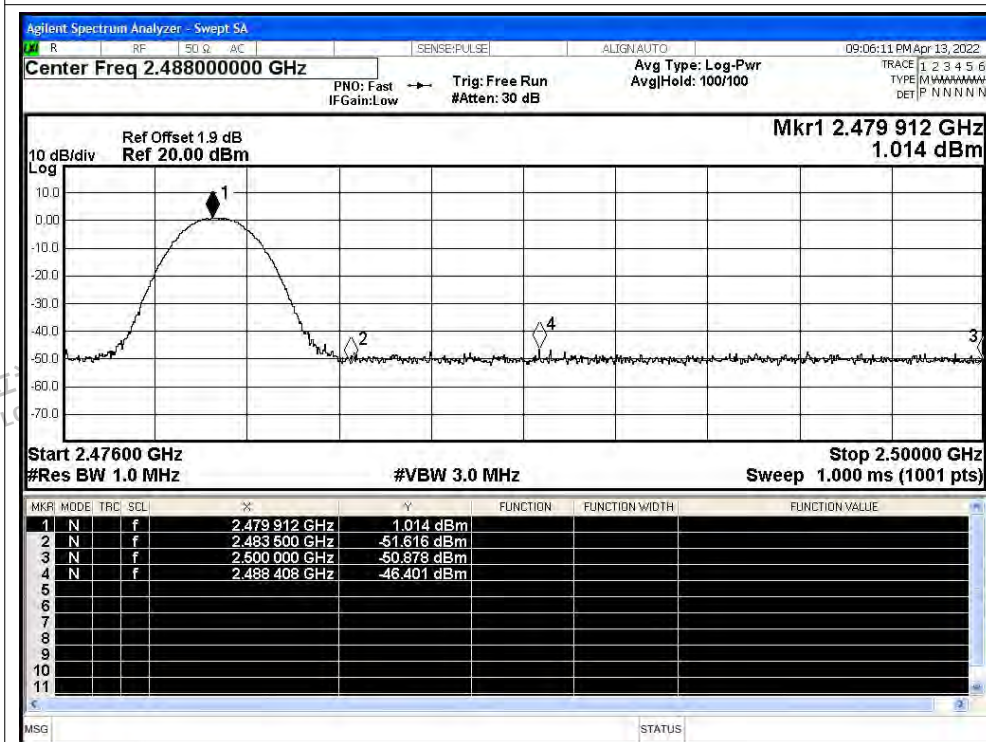
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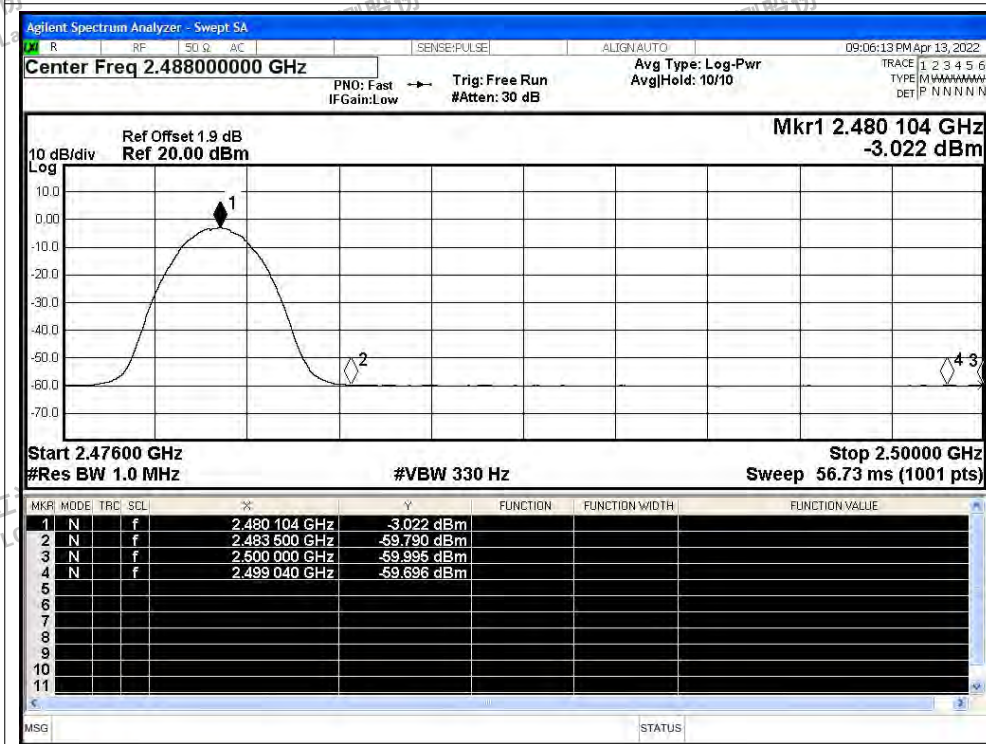
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Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average



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