



Appendix A

RF Test Data for BT(Conducted Measurement)

Product Name: Music Box

Test Model: K7

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu



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A.1 -20dB Bandwidth

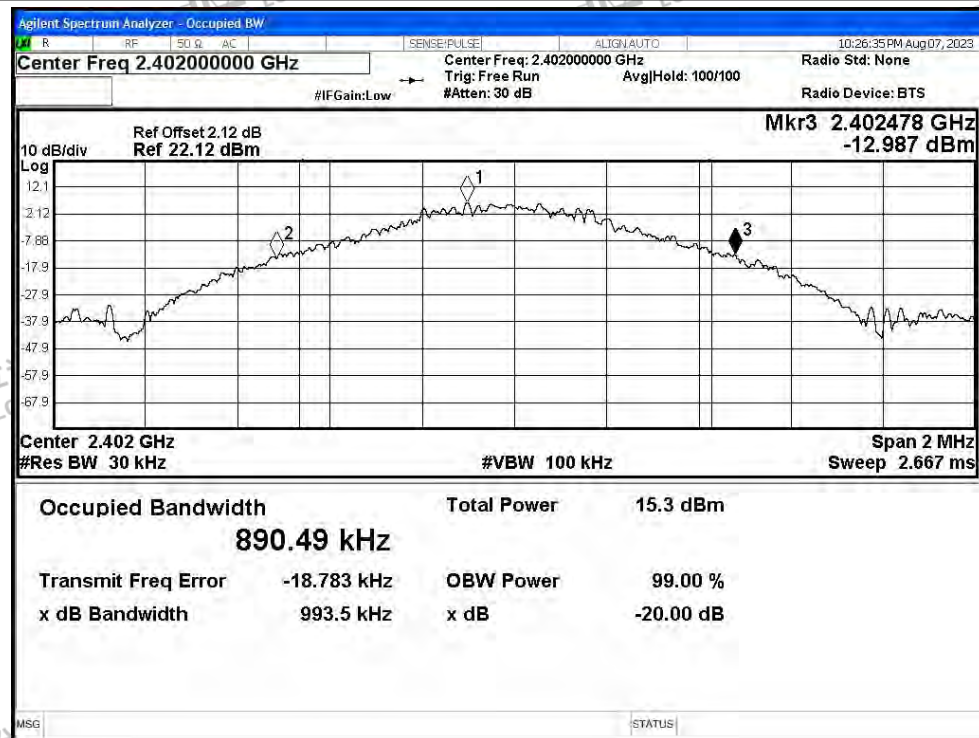
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.994	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.069	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.051	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.309	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.276	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.309	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.307	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.271	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.287	N/A	Pass



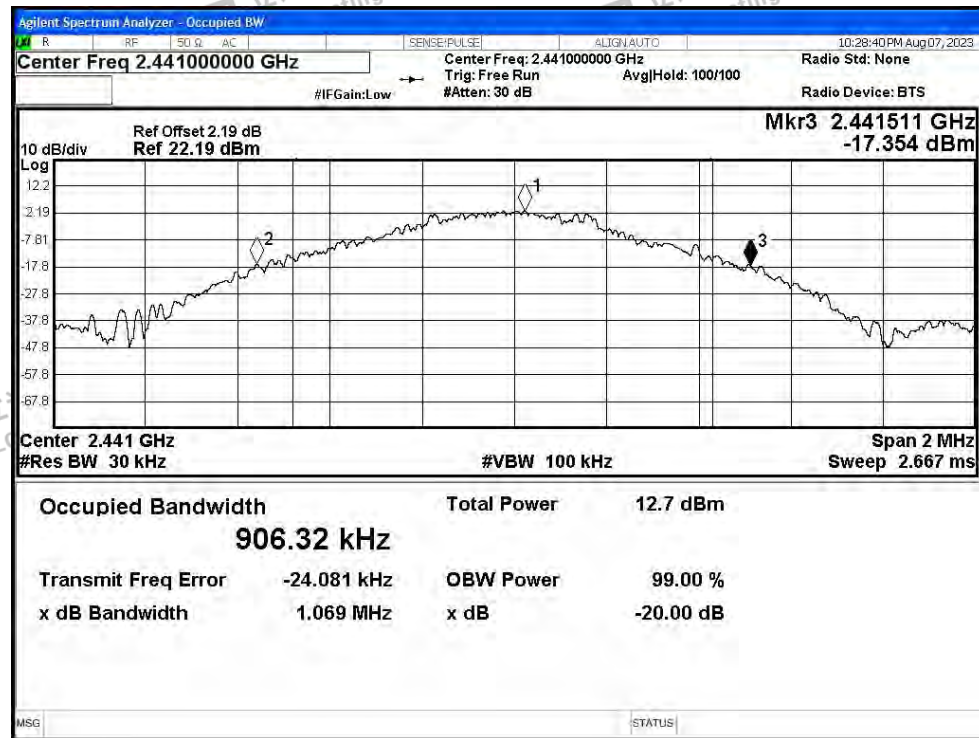


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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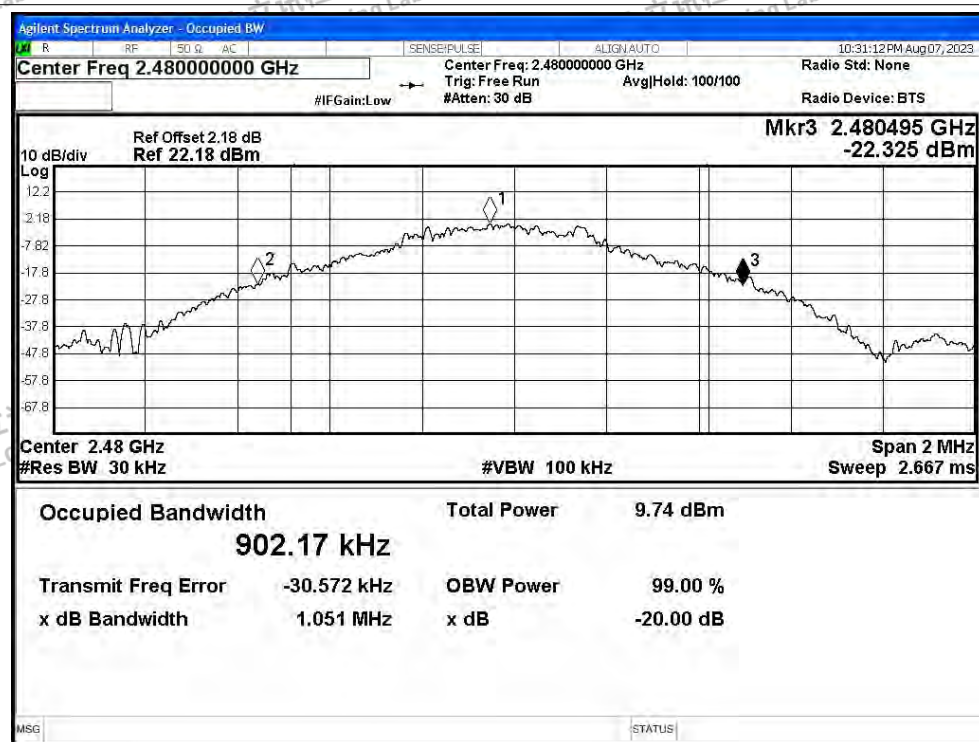
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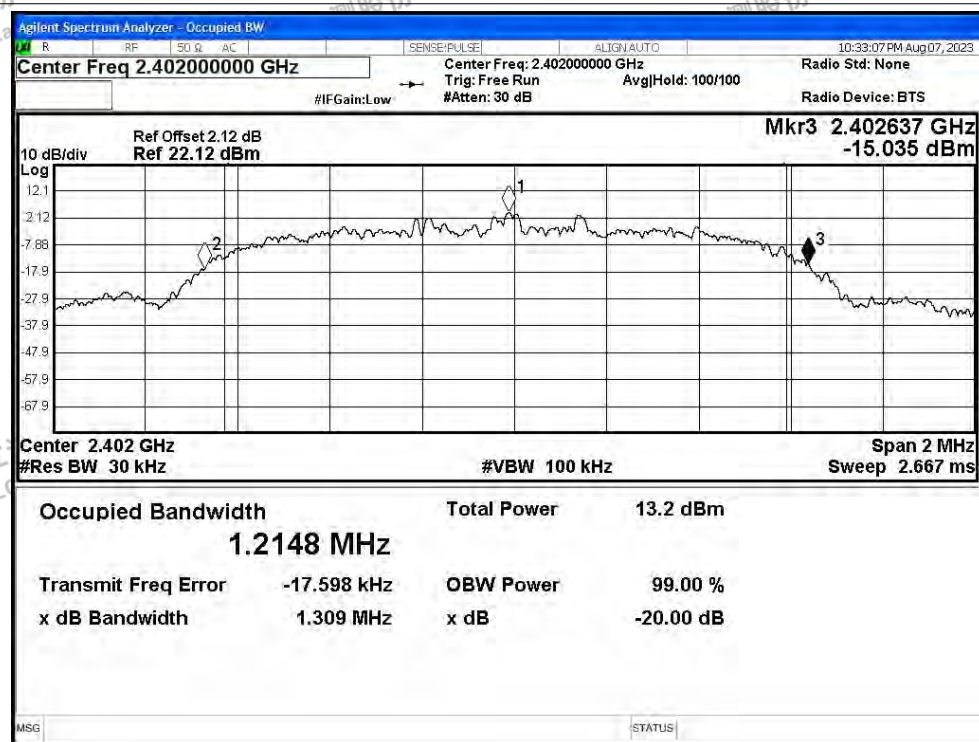
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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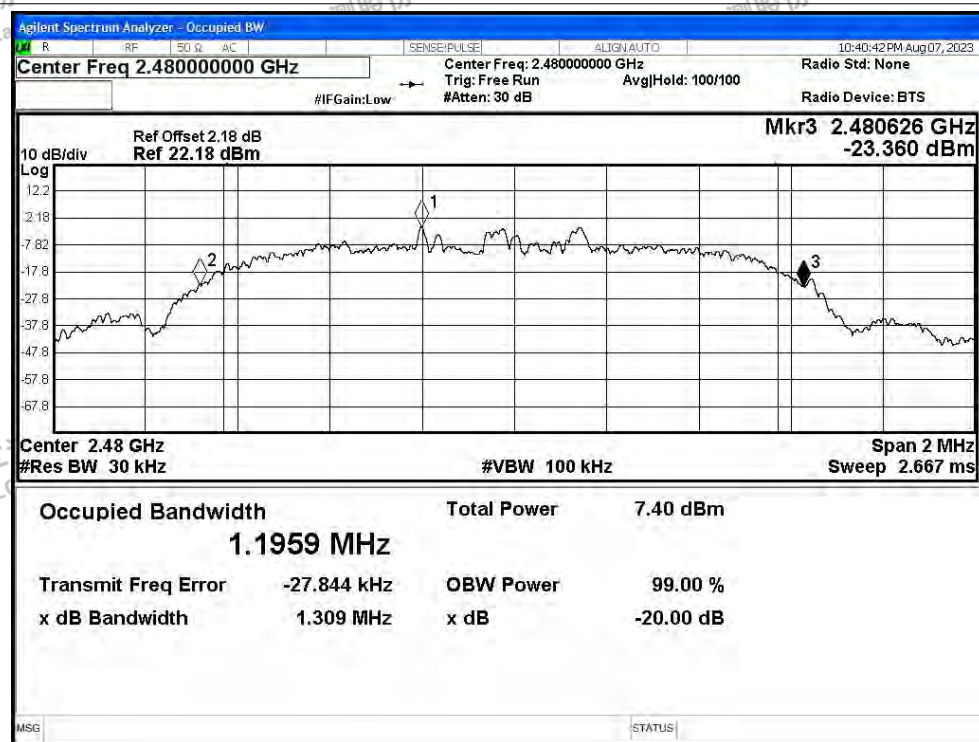
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

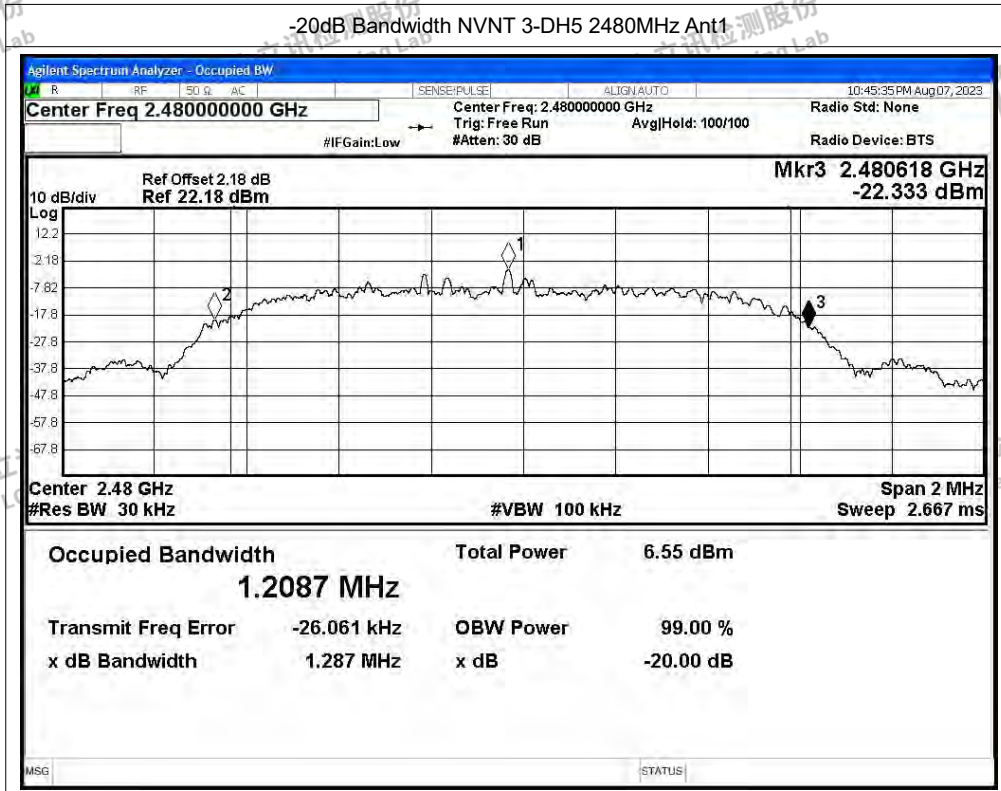


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A.2 Occupied Channel Bandwidth

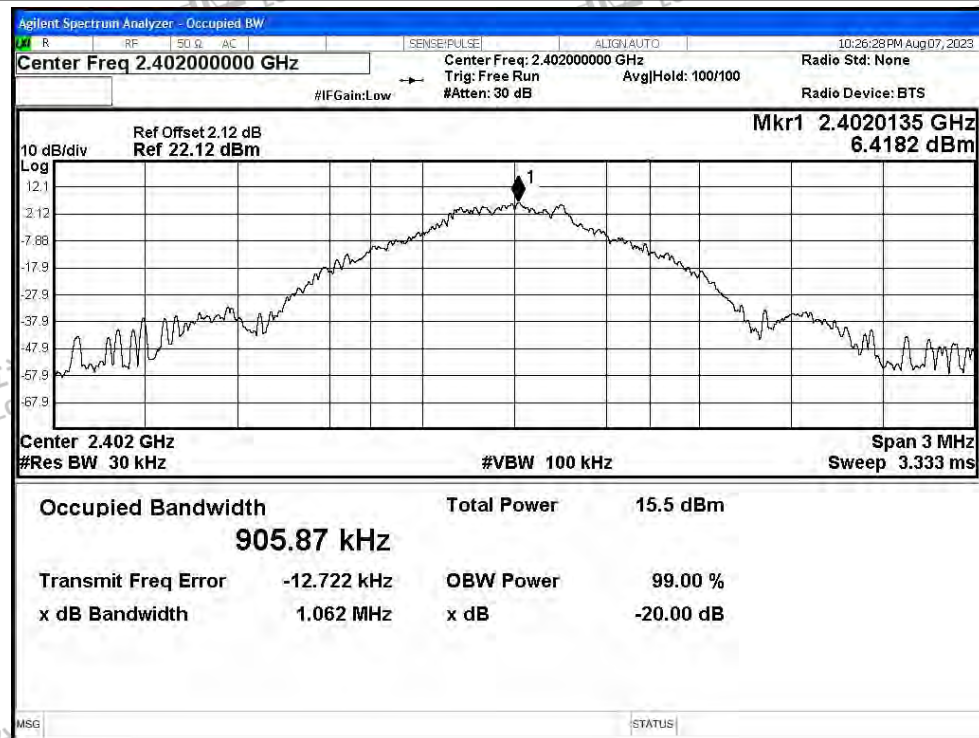
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.906
NVNT	1-DH5	2441	Ant1	0.908
NVNT	1-DH5	2480	Ant1	0.918
NVNT	2-DH5	2402	Ant1	1.211
NVNT	2-DH5	2441	Ant1	1.194
NVNT	2-DH5	2480	Ant1	1.191
NVNT	3-DH5	2402	Ant1	1.224
NVNT	3-DH5	2441	Ant1	1.187
NVNT	3-DH5	2480	Ant1	1.19



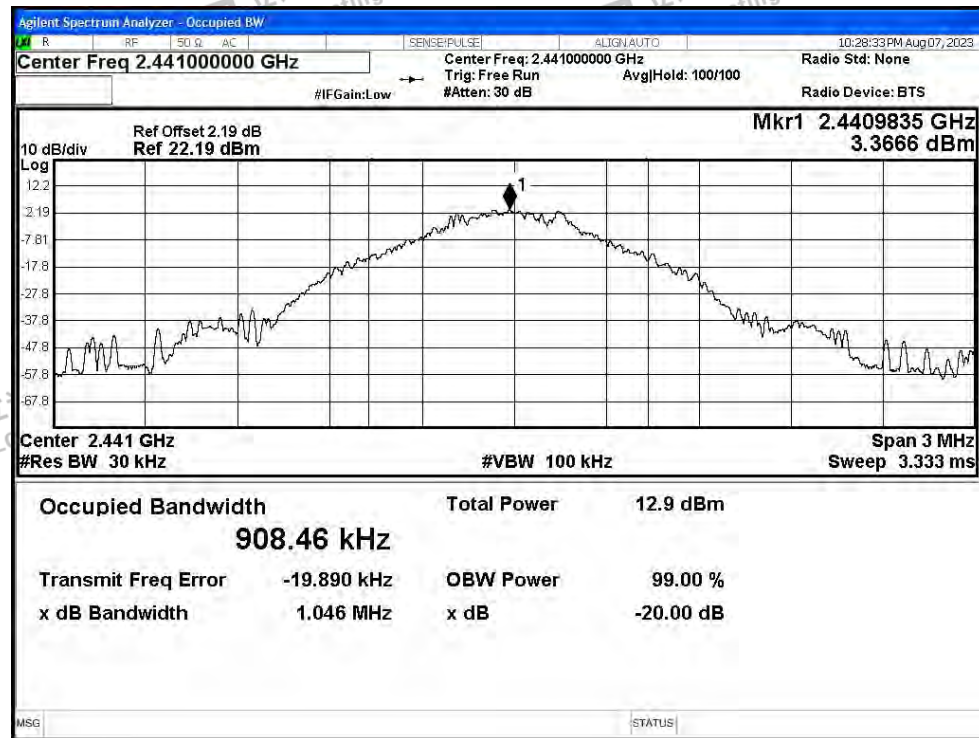


Test Graphs

OBW NVNT 1-DH5 2402MHz Ant1



OBW NVNT 1-DH5 2441MHz Ant1



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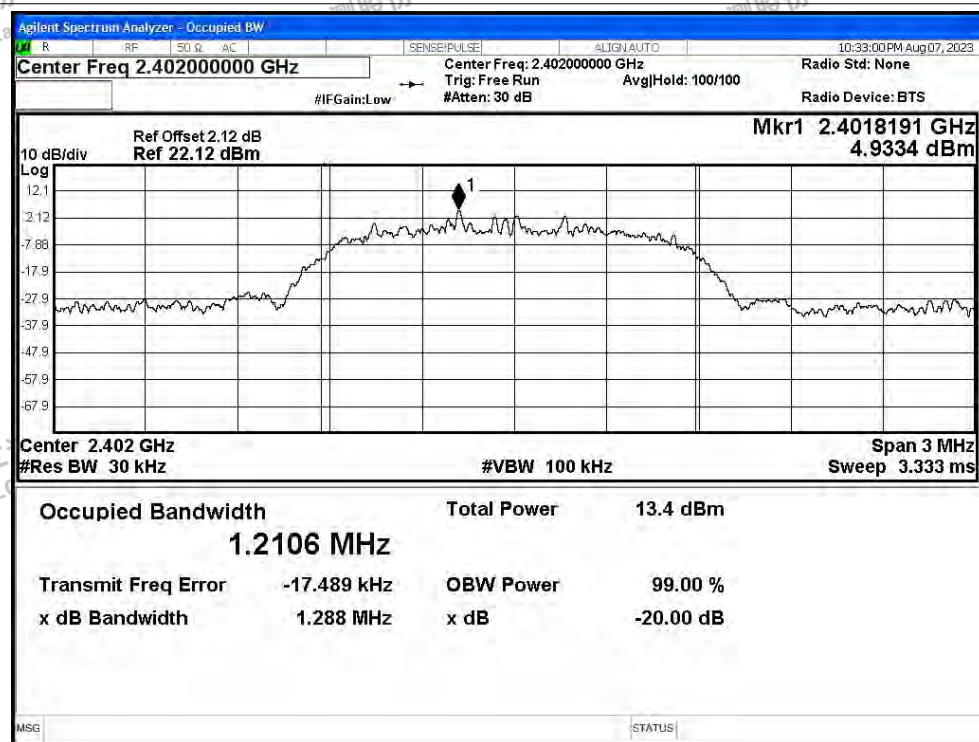
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OBW NVNT 1-DH5 2480MHz Ant1



OBW NVNT 2-DH5 2402MHz Ant1



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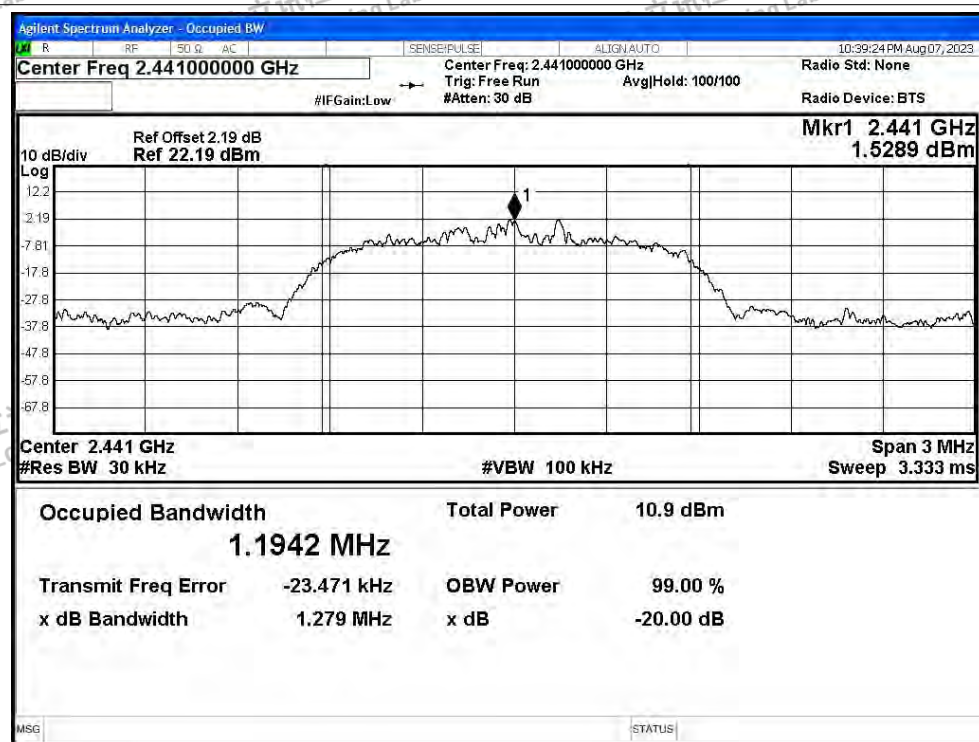
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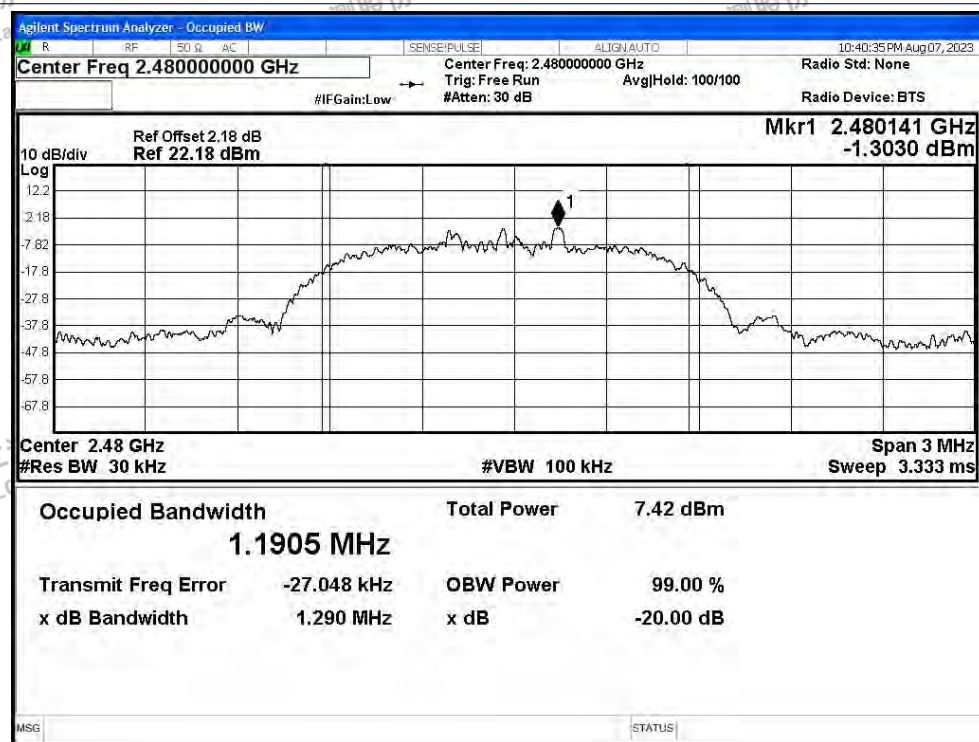
Scan code to check authenticity



OBW NVNT 2-DH5 2441MHz Ant1



OBW NVNT 2-DH5 2480MHz Ant1



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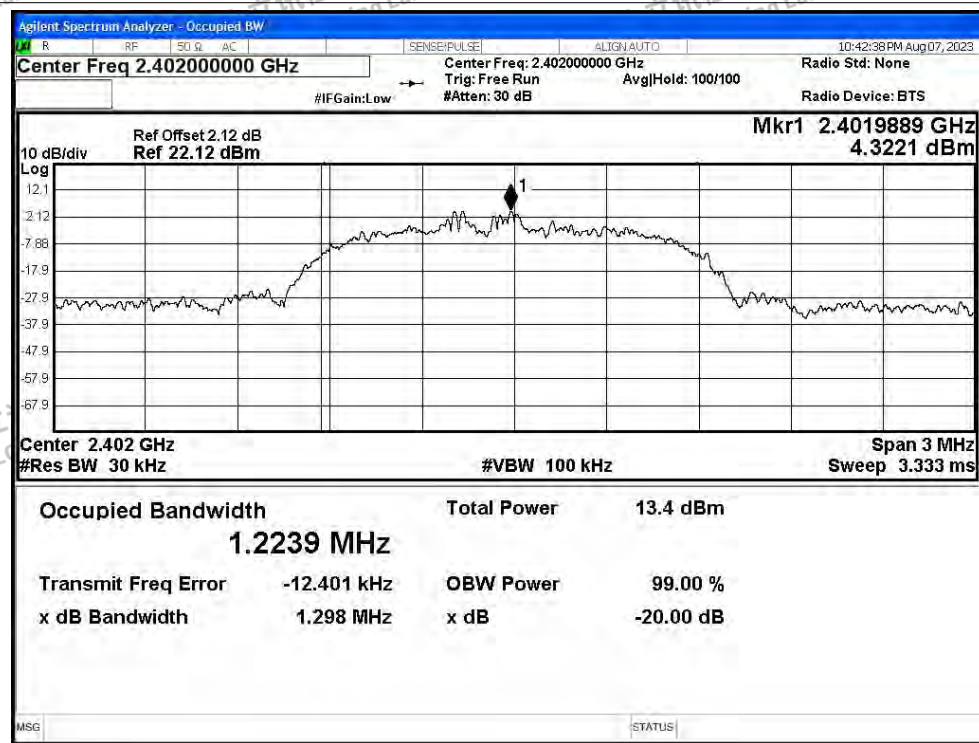
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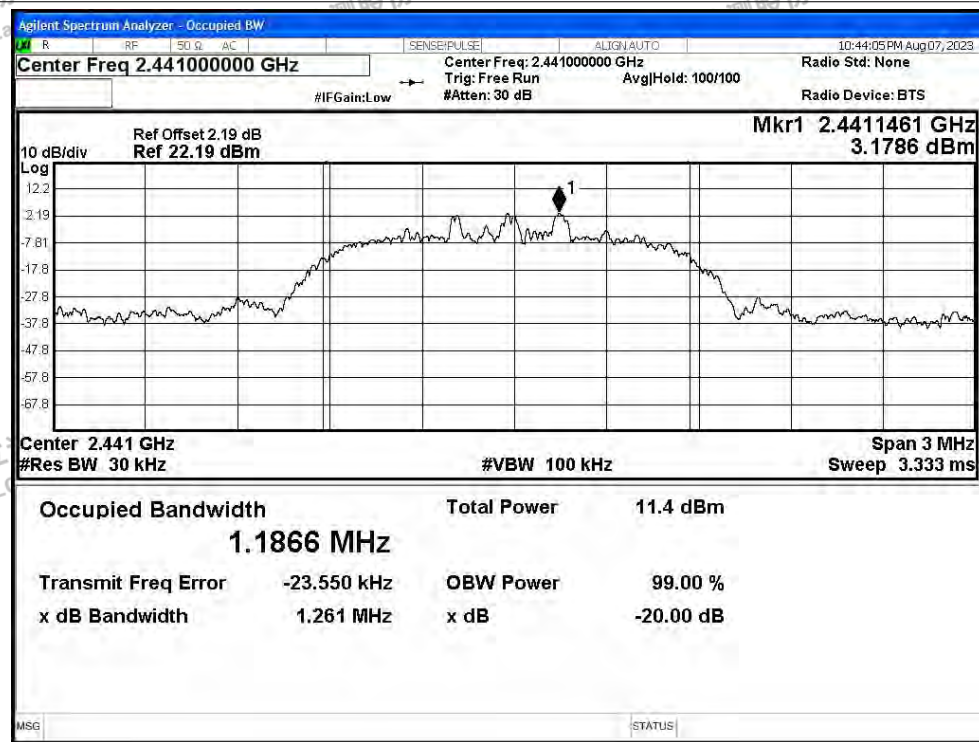
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OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



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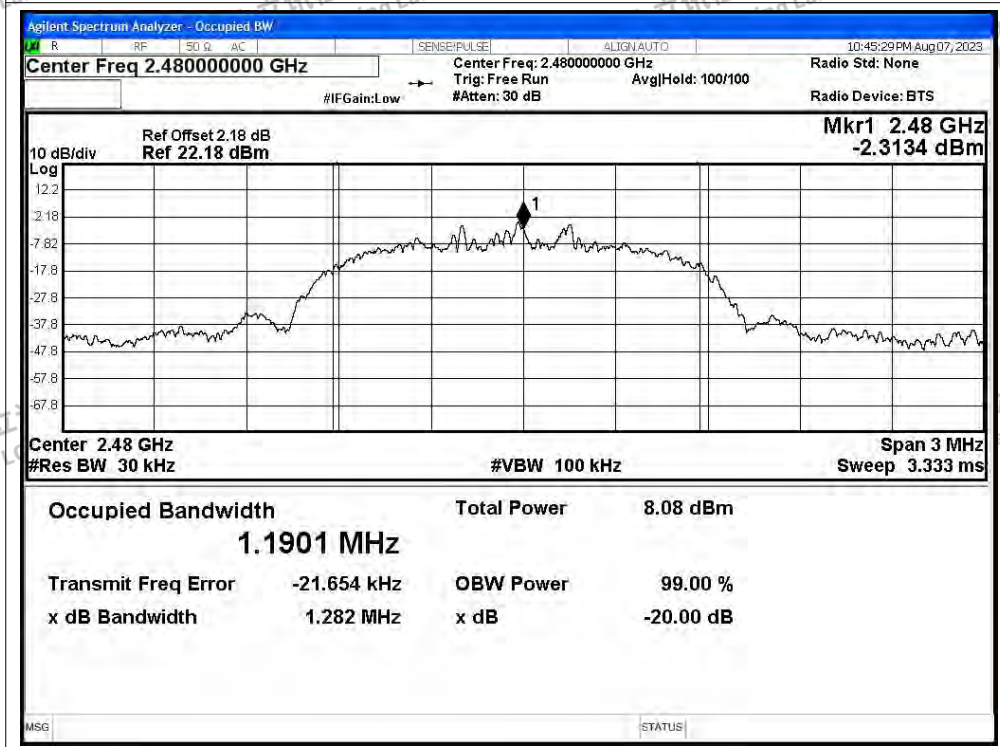
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OBW NVNT 3-DH5 2480MHz Ant1



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A.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	8.48	21	Pass
NVNT	1-DH5	2441	Ant1	6.1	21	Pass
NVNT	1-DH5	2480	Ant1	2.92	21	Pass
NVNT	2-DH5	2402	Ant1	8.46	21	Pass
NVNT	2-DH5	2441	Ant1	6.16	21	Pass
NVNT	2-DH5	2480	Ant1	2.96	21	Pass
NVNT	3-DH5	2402	Ant1	8.51	21	Pass
NVNT	3-DH5	2441	Ant1	6.14	21	Pass
NVNT	3-DH5	2480	Ant1	2.97	21	Pass

EIRP

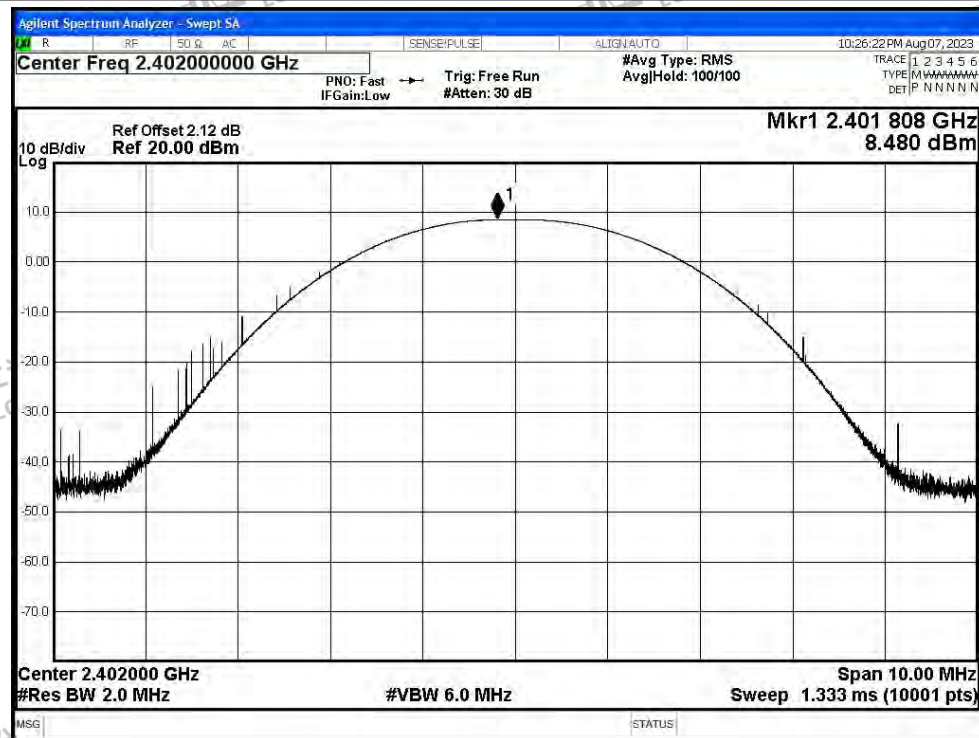
Mode	Channel.	Maximum Peak Output Power (dBm)	Antenna Gain	Report EIRP Power(dBm)	Limit (dBm)	Verdict
1-DH5	LCH	8.48	3.38	11.86	36	PASS
	MCH	6.1	3.38	9.48	36	PASS
	HCH	2.92	3.38	6.3	36	PASS
2-DH5	LCH	8.46	3.38	11.84	36	PASS
	MCH	6.16	3.38	9.54	36	PASS
	HCH	2.96	3.38	6.34	36	PASS
3-DH5	LCH	8.51	3.38	11.89	36	PASS
	MCH	6.14	3.38	9.52	36	PASS
	HCH	2.97	3.38	6.35	36	PASS



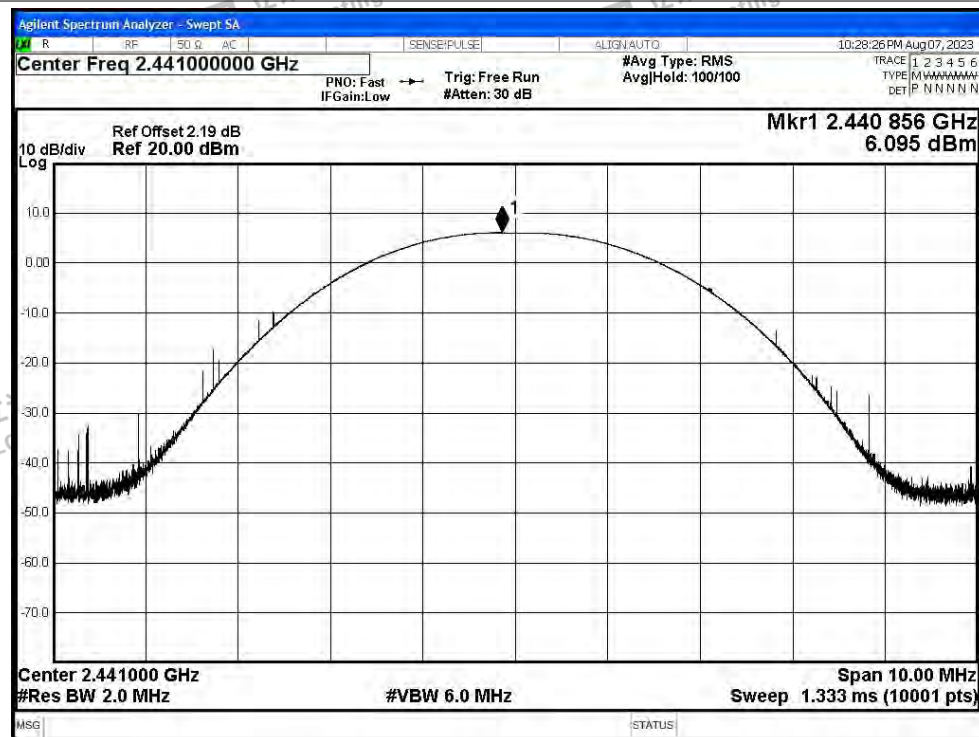


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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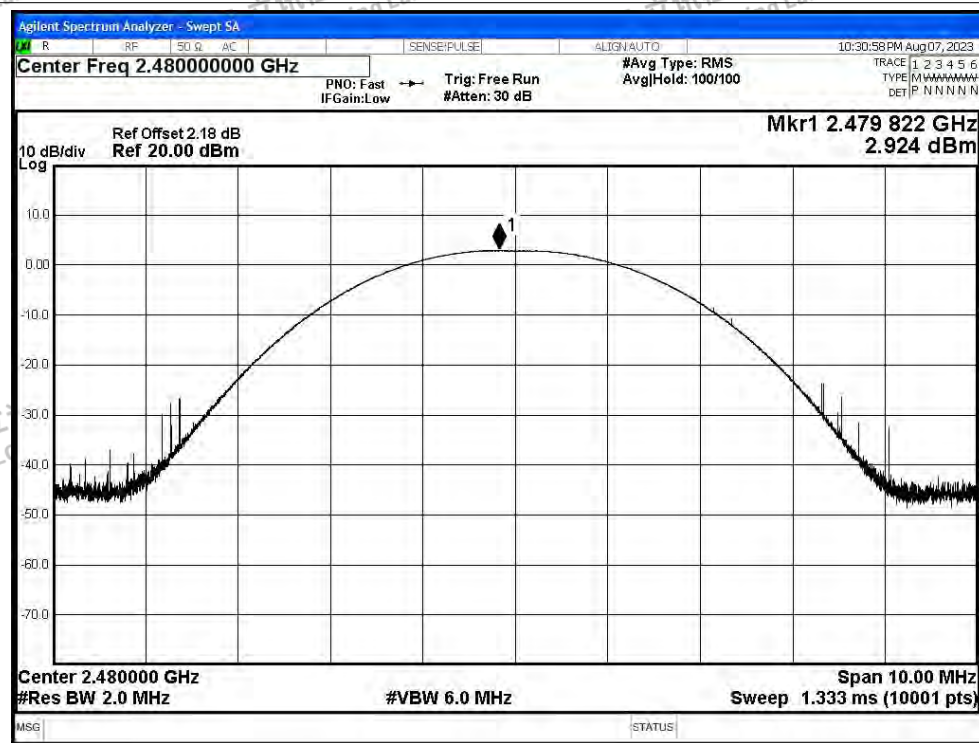
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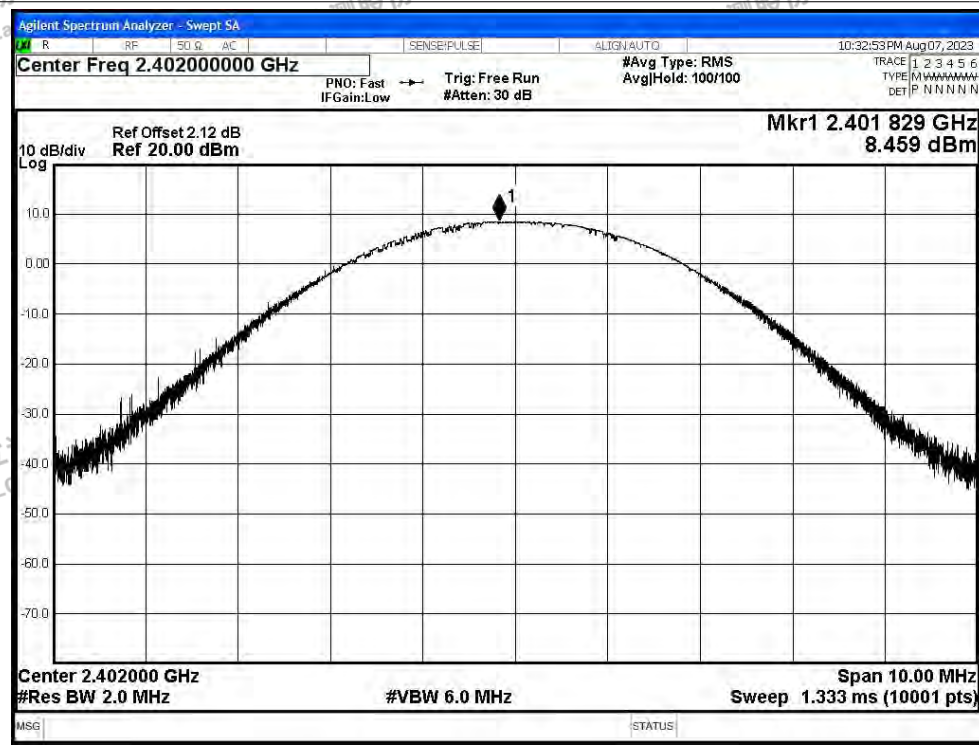
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Power NVNT 1-DH5 2480MHz Ant1

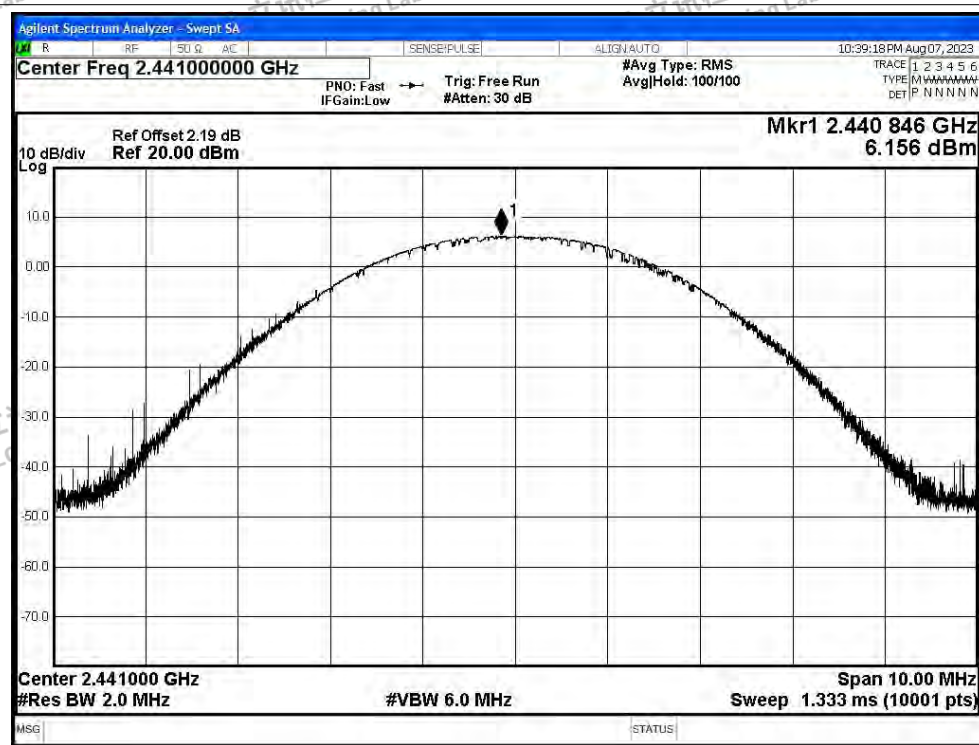


Power NVNT 2-DH5 2402MHz Ant1

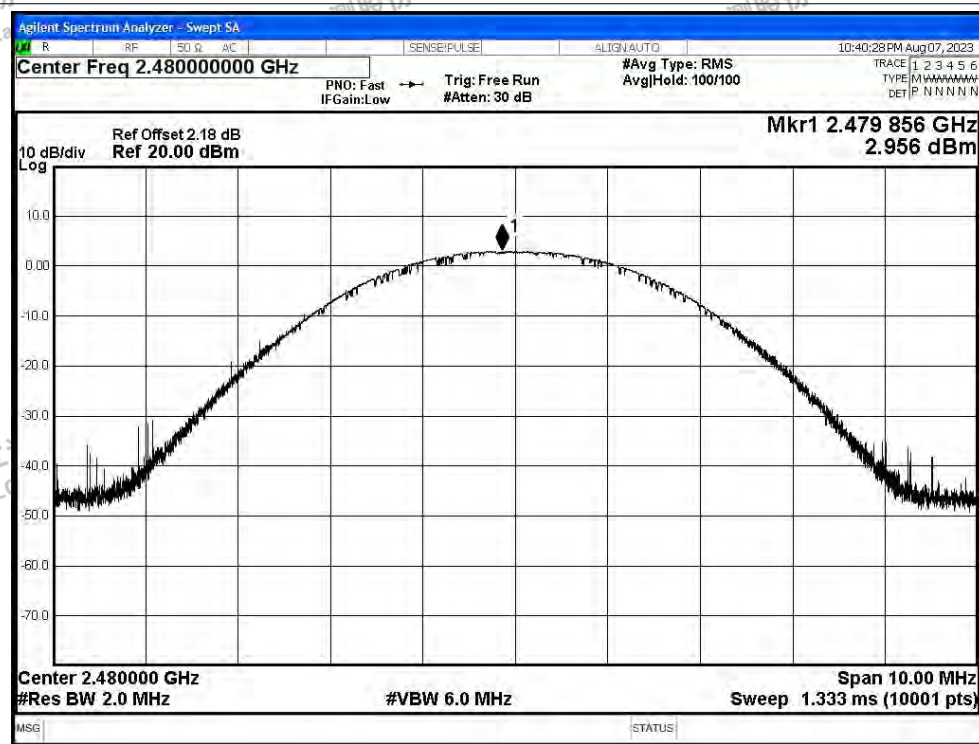




Power NVNT 2-DH5 2441MHz Ant1

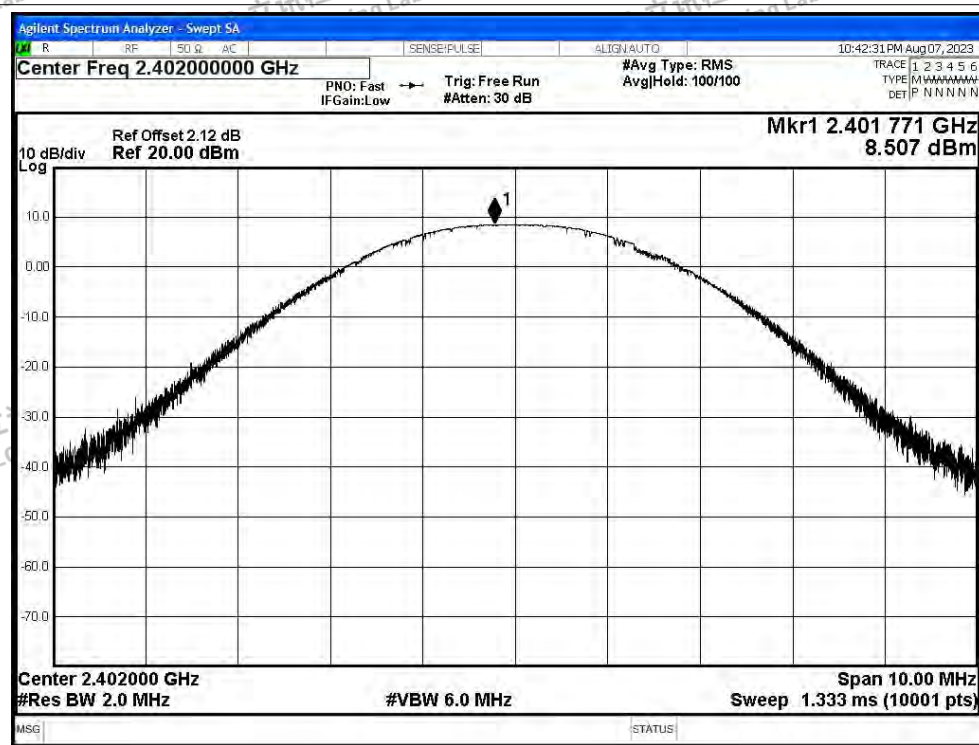


Power NVNT 2-DH5 2480MHz Ant1

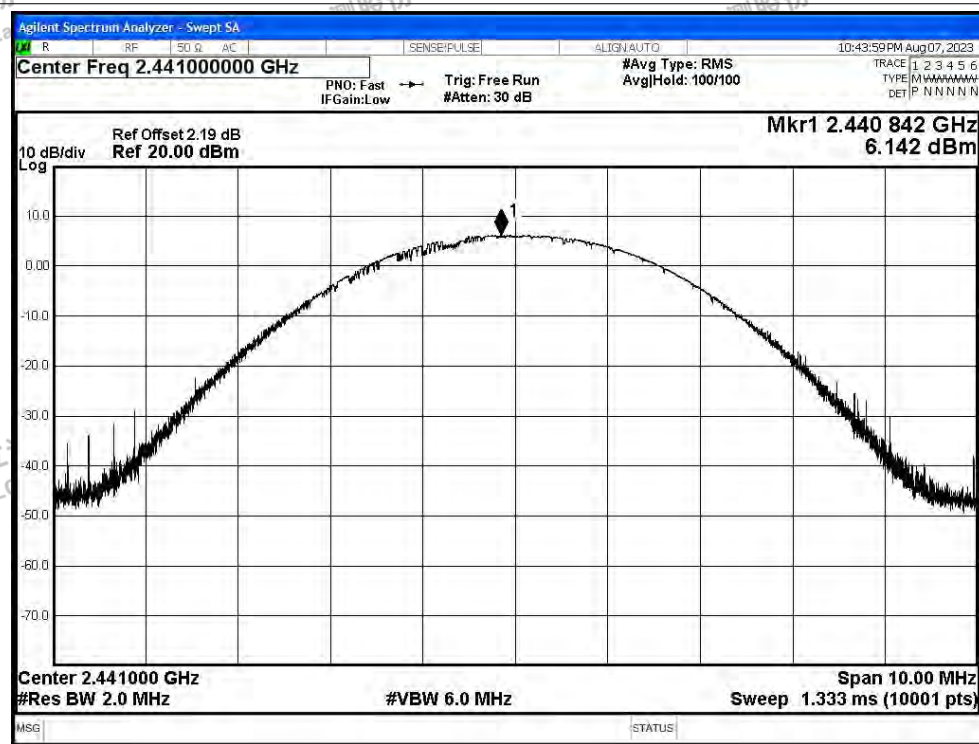




Power NVNT 3-DH5 2402MHz Ant1

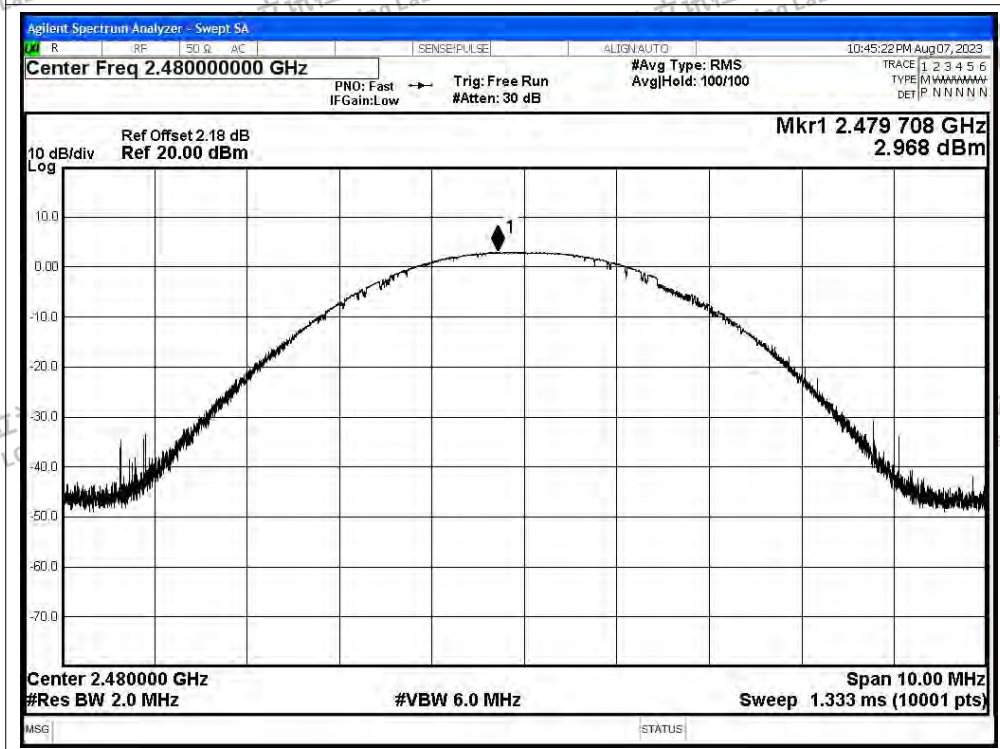


Power NVNT 3-DH5 2441MHz Ant1





Power NVNT 3-DH5 2480MHz Ant1





A.4 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.024	2402.918	0.894	0.713	Pass
NVNT	2-DH5	Ant1	2401.858	2402.978	1.12	0.873	Pass
NVNT	3-DH5	Ant1	2401.982	2402.988	1.006	0.871	Pass

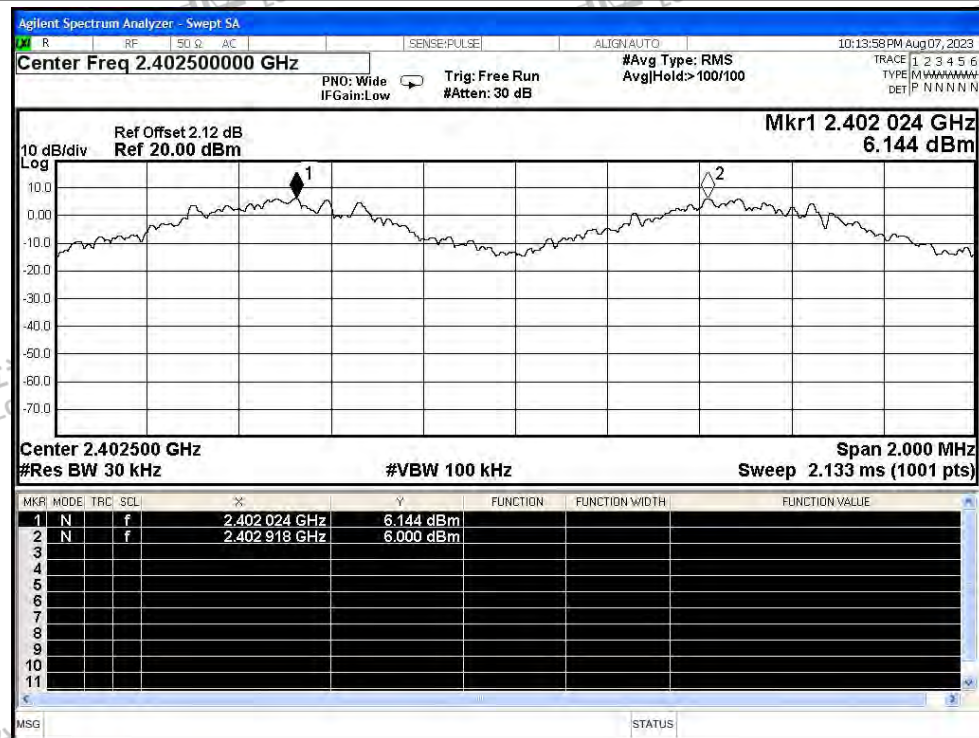


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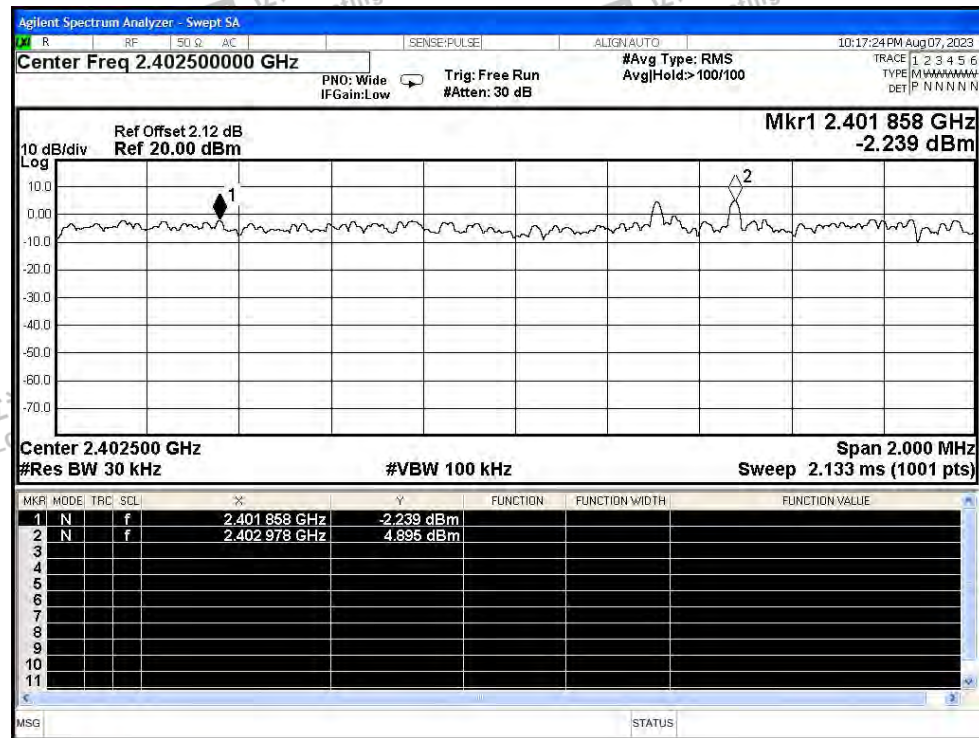


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1

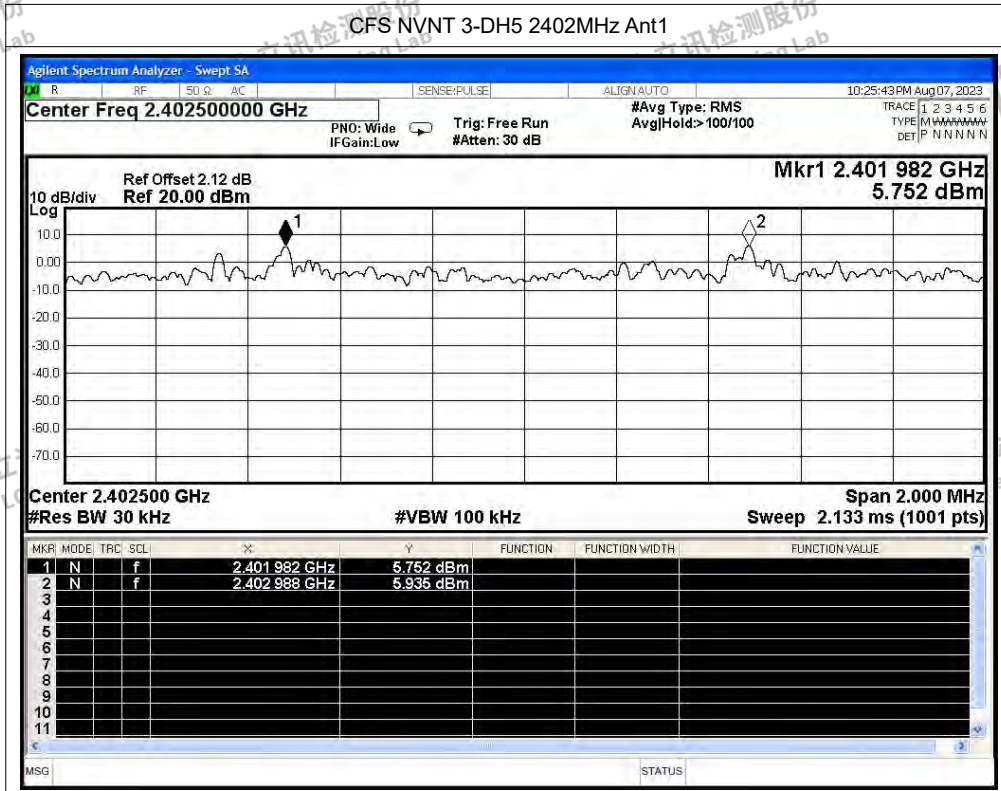


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A.5 Dwell Time

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	2.891	318.01	110	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.886	320.346	111	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.887	256.943	89	31600	400	Pass

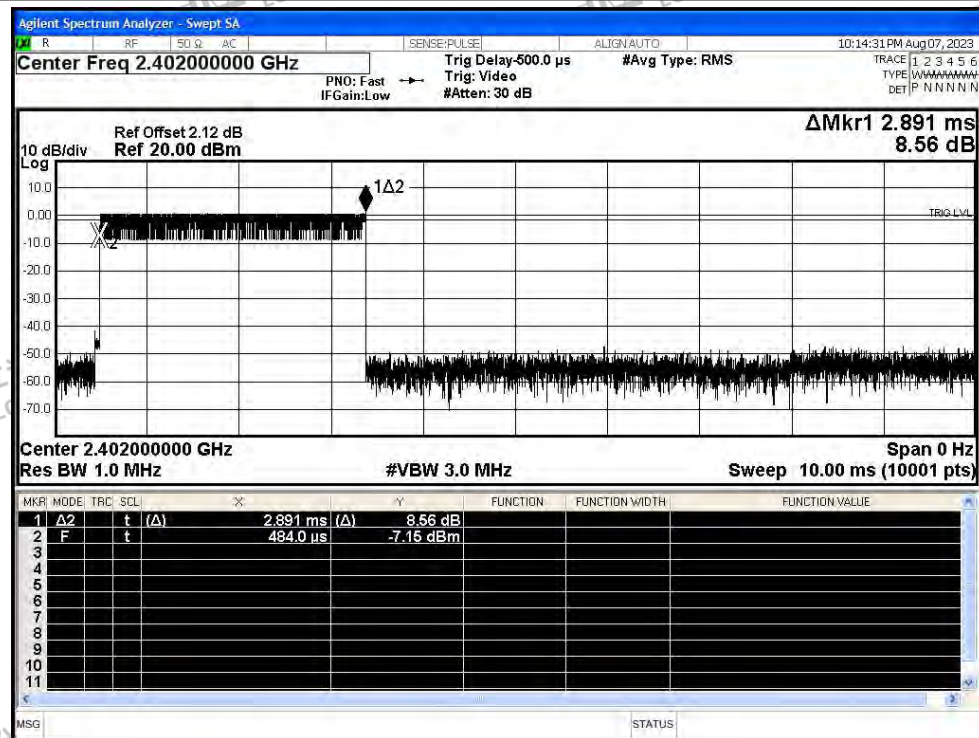


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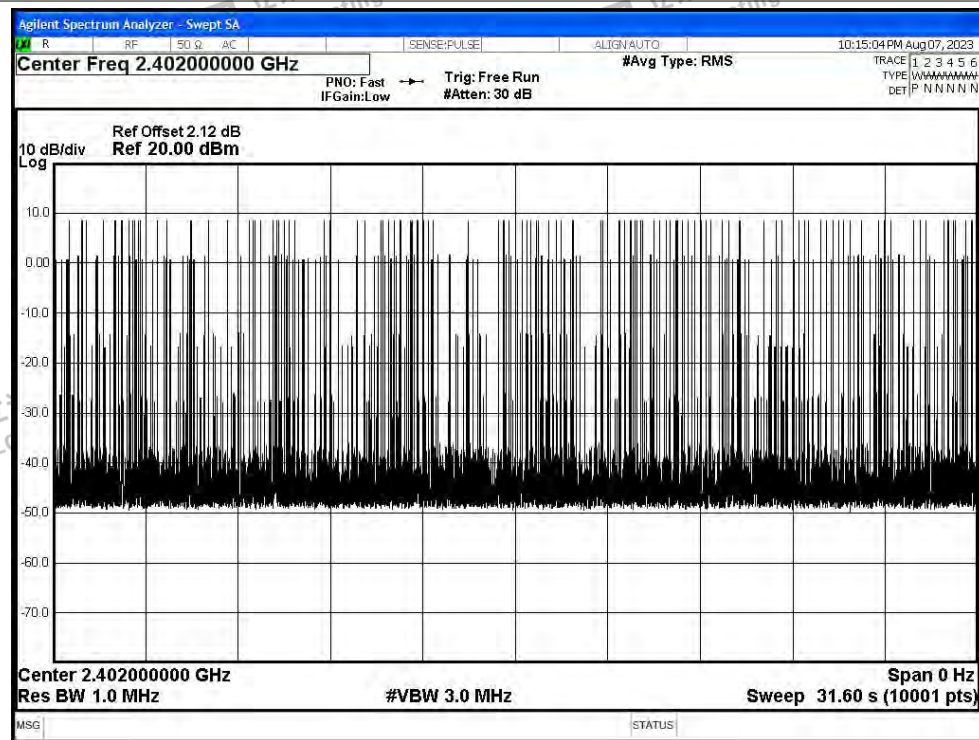


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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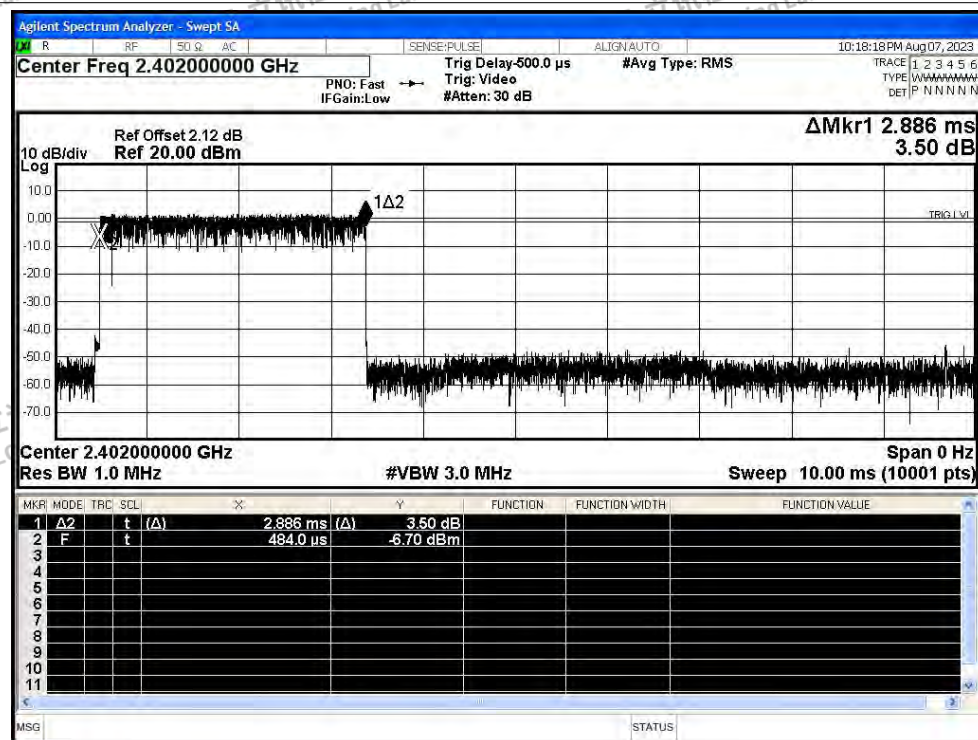
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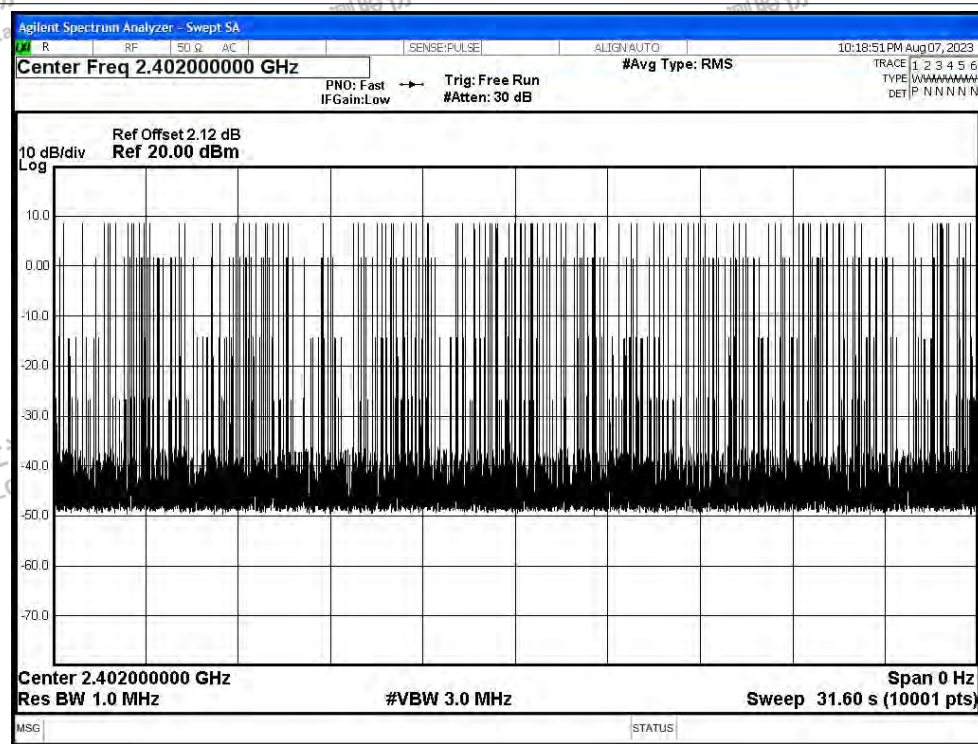
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

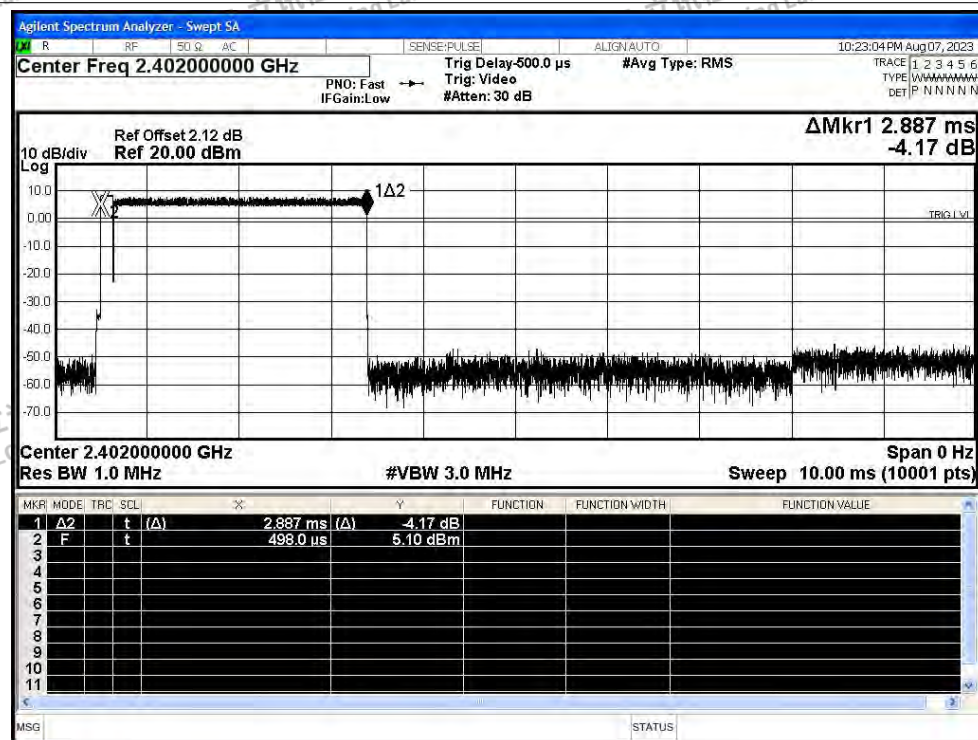


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

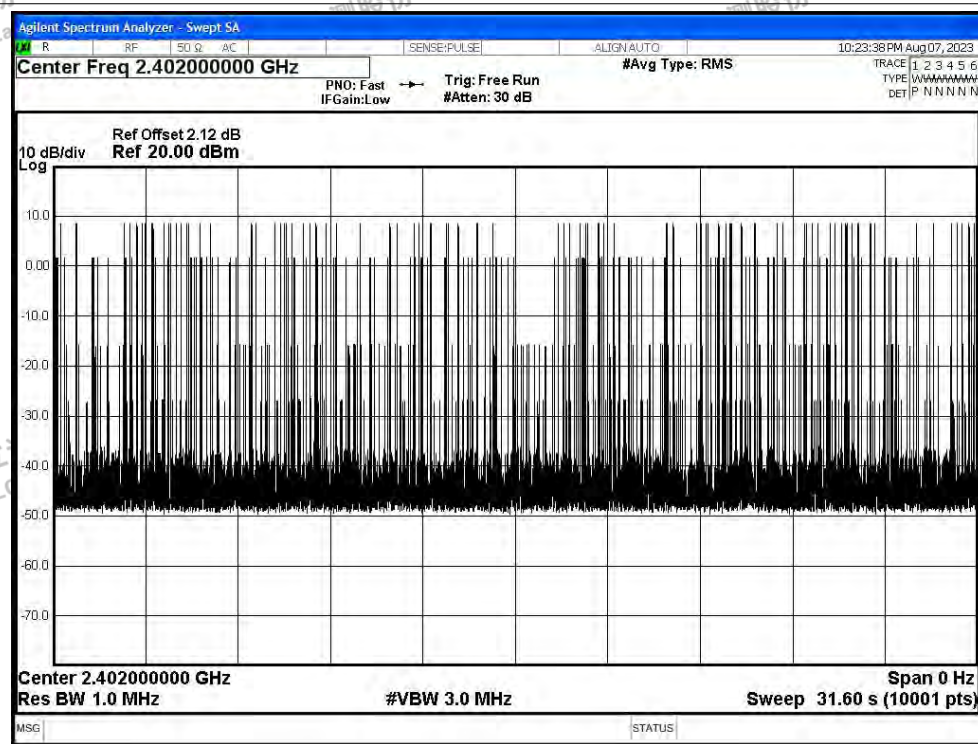




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated





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

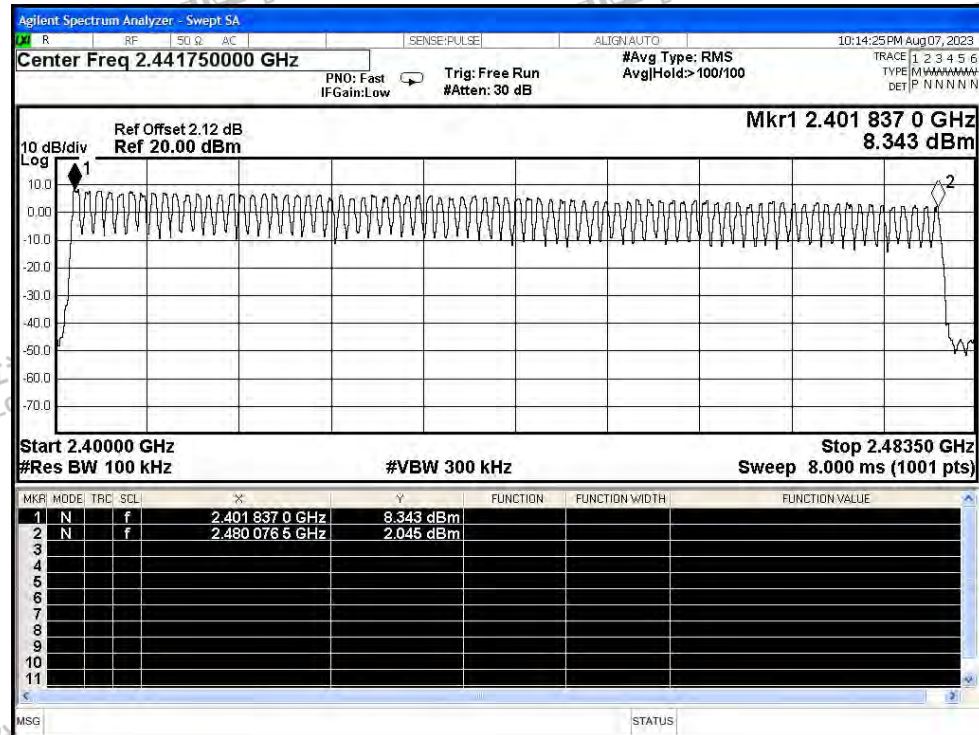


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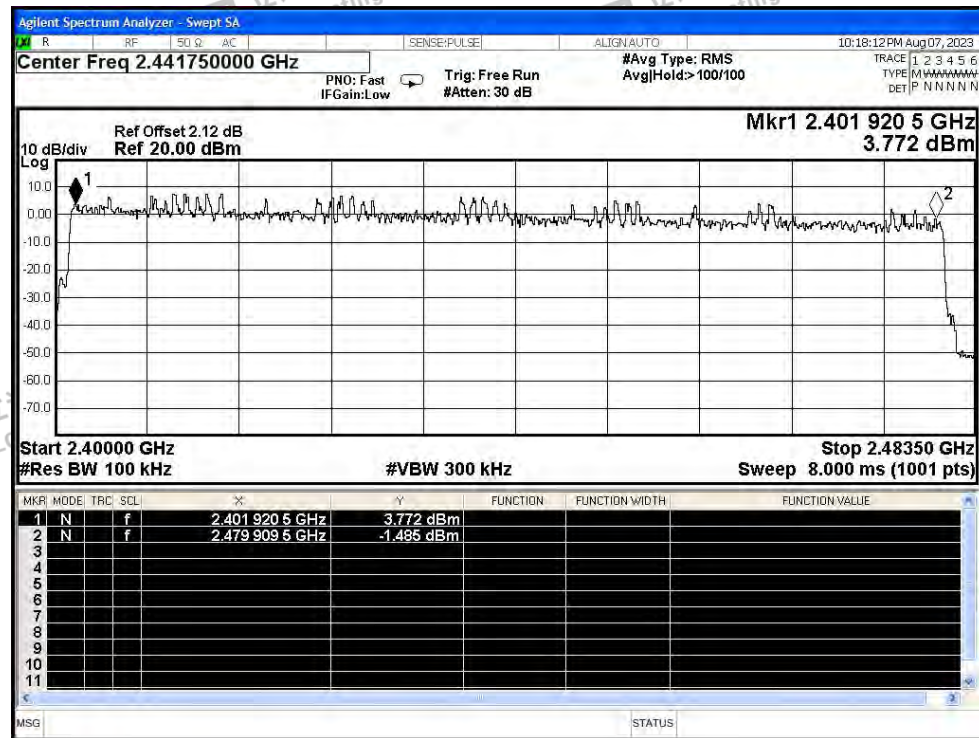


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



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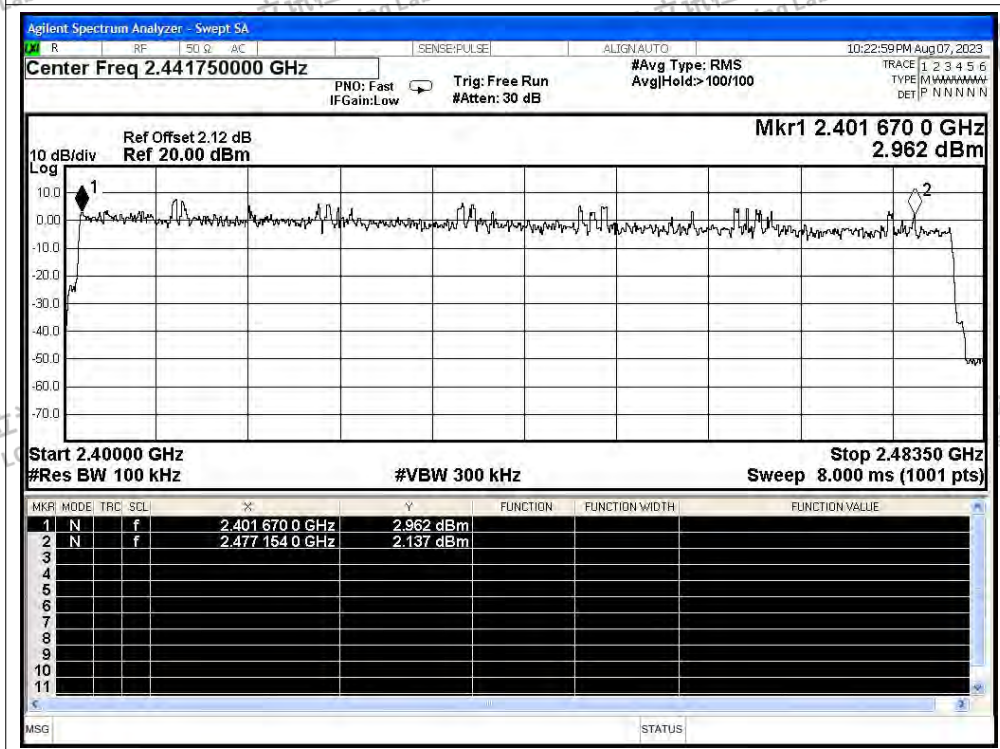
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Hopping No. NVNT 3-DH5 2402MHz Ant1



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A.7 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-48.43	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-47.95	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-40.2	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-48.85	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-42.16	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-49.01	-20	Pass

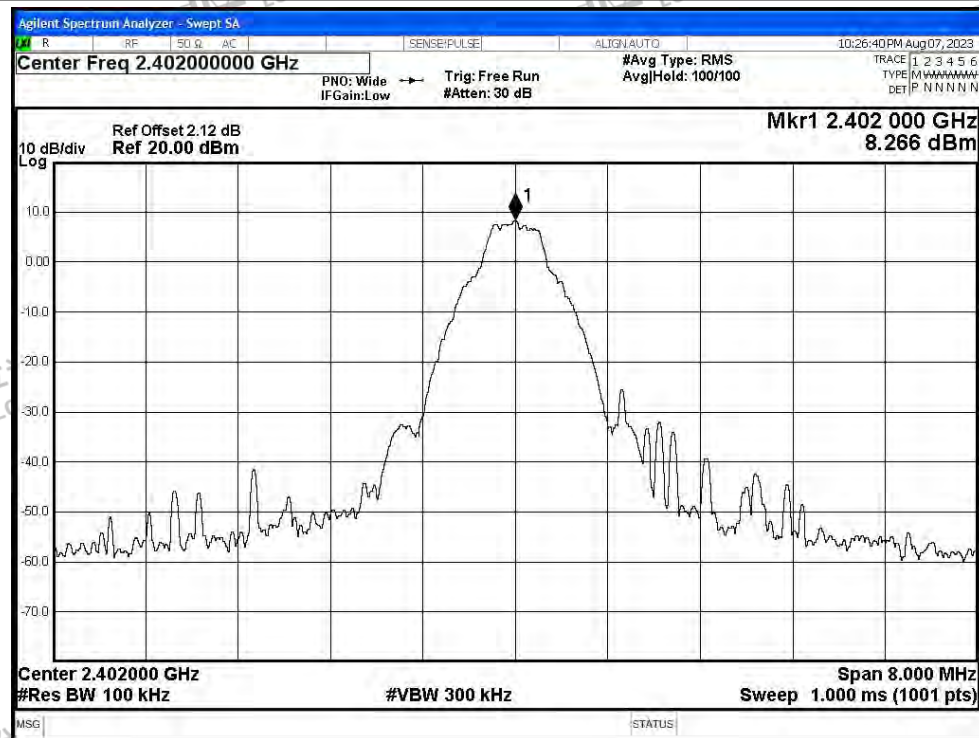


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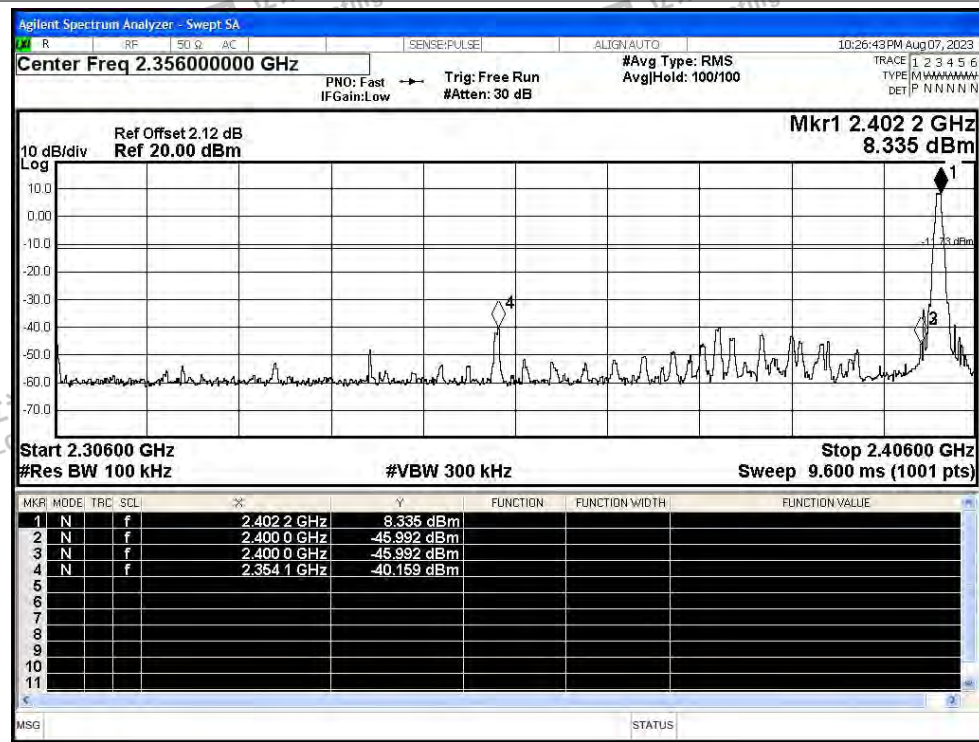


Test Graphs

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



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



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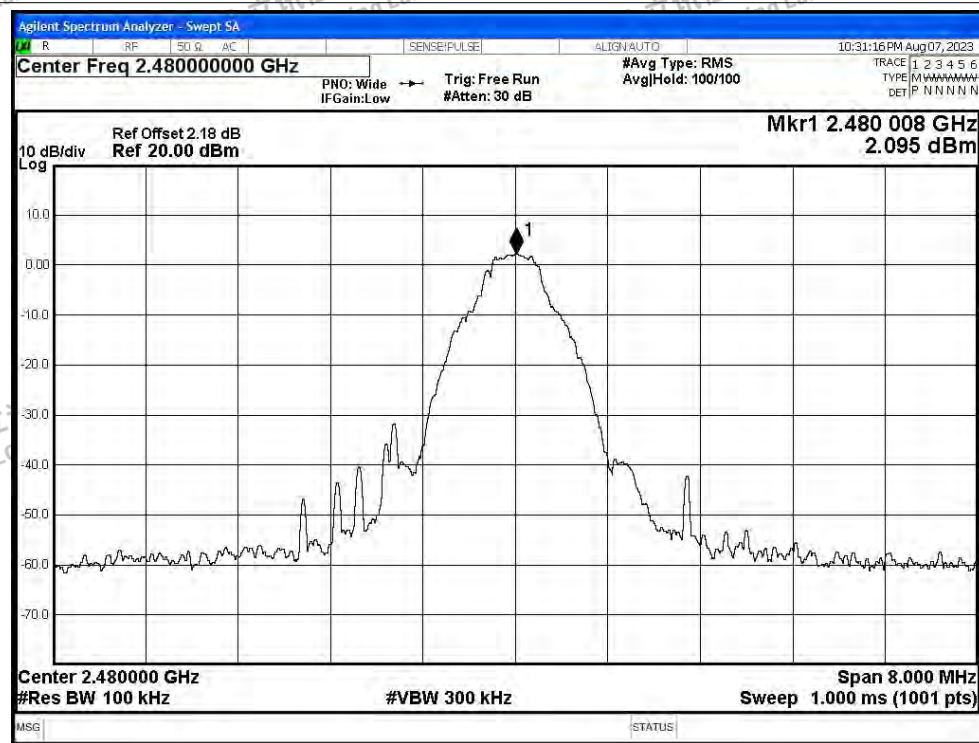
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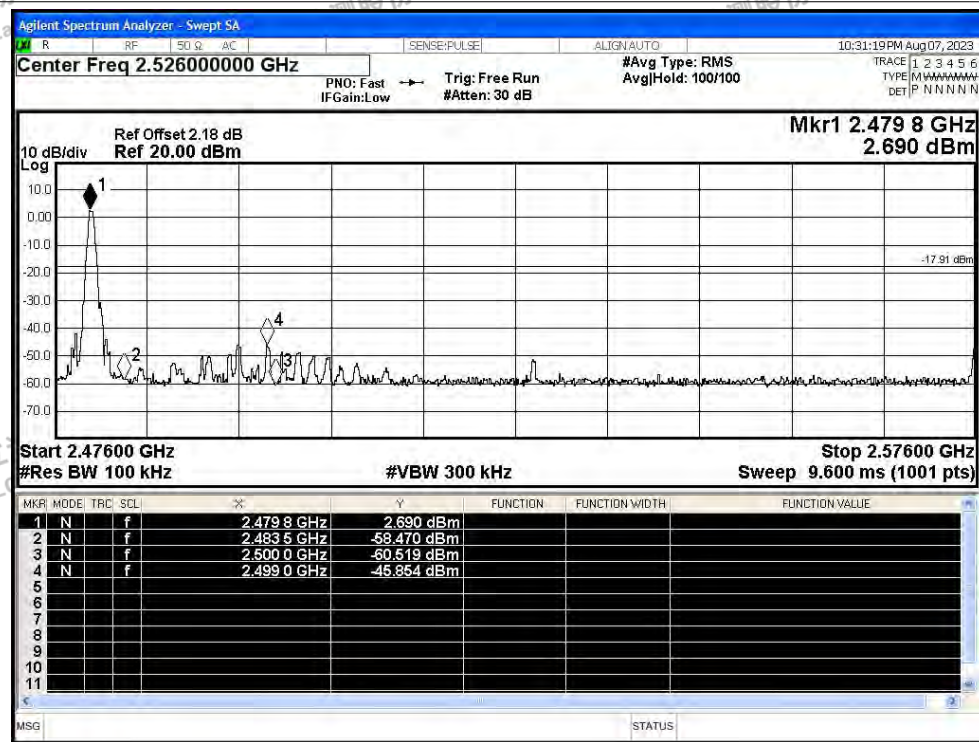
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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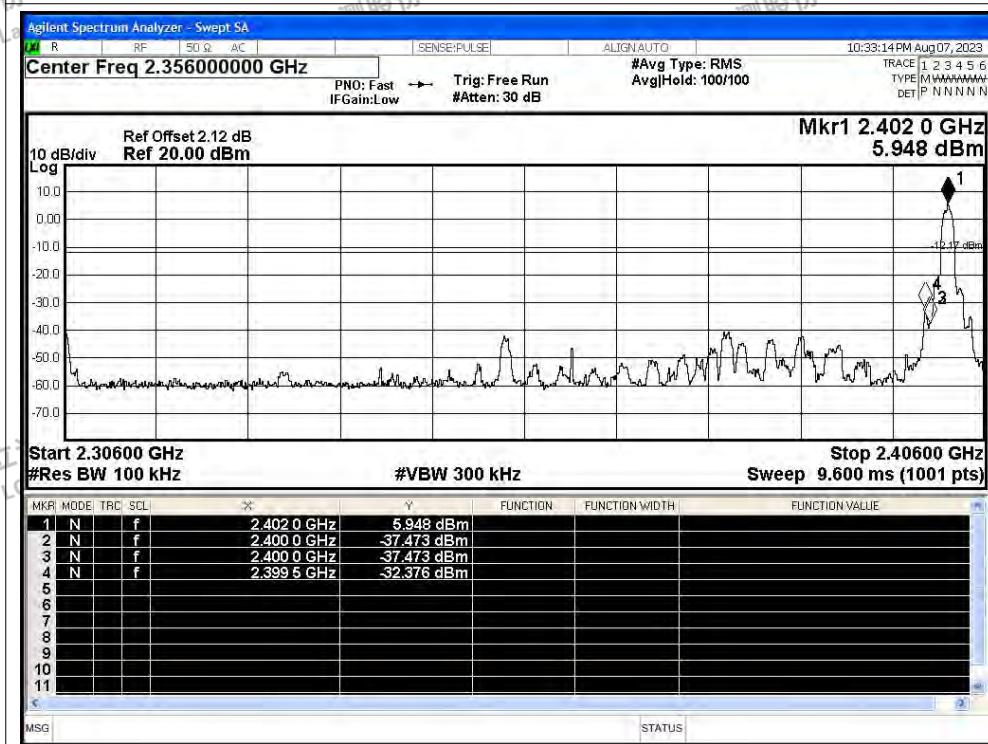
Scan code to check authenticity



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

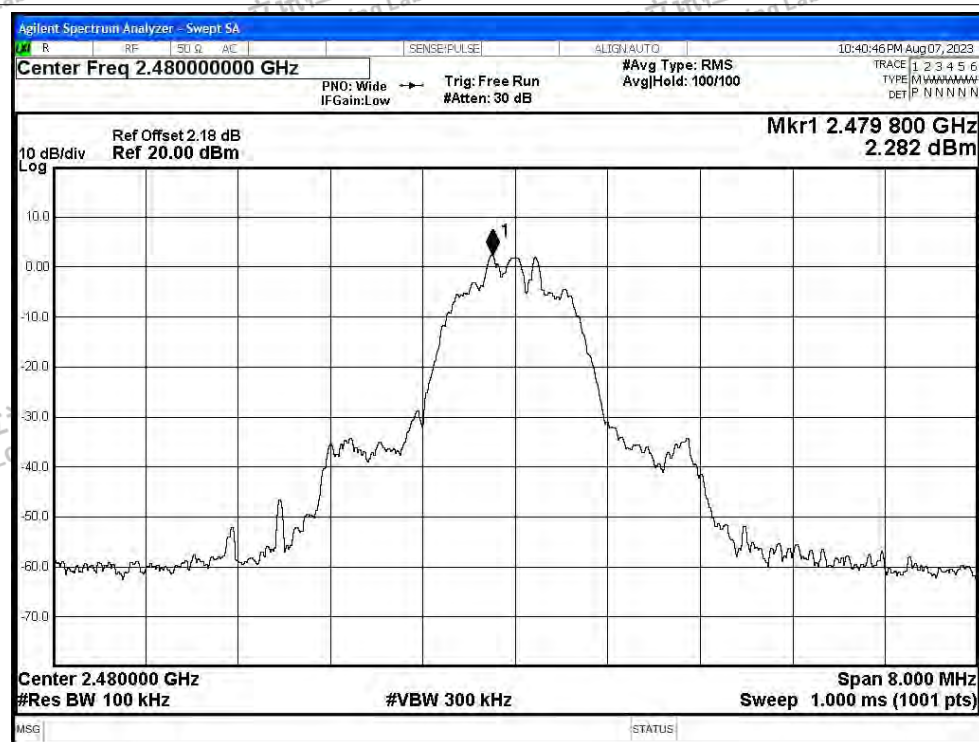


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

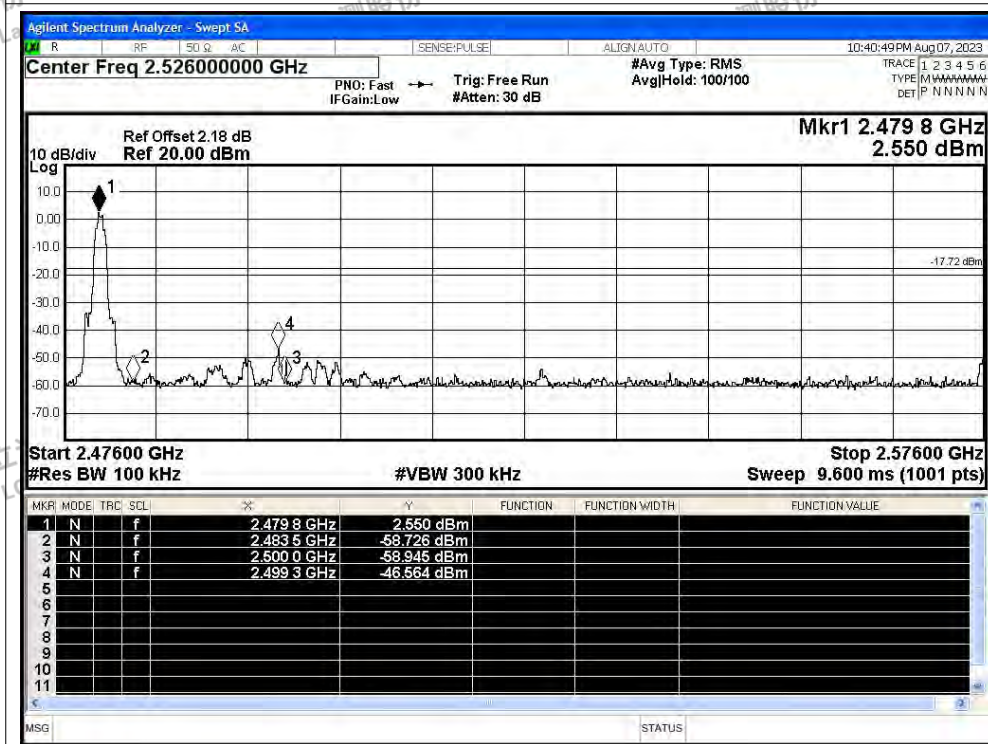




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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

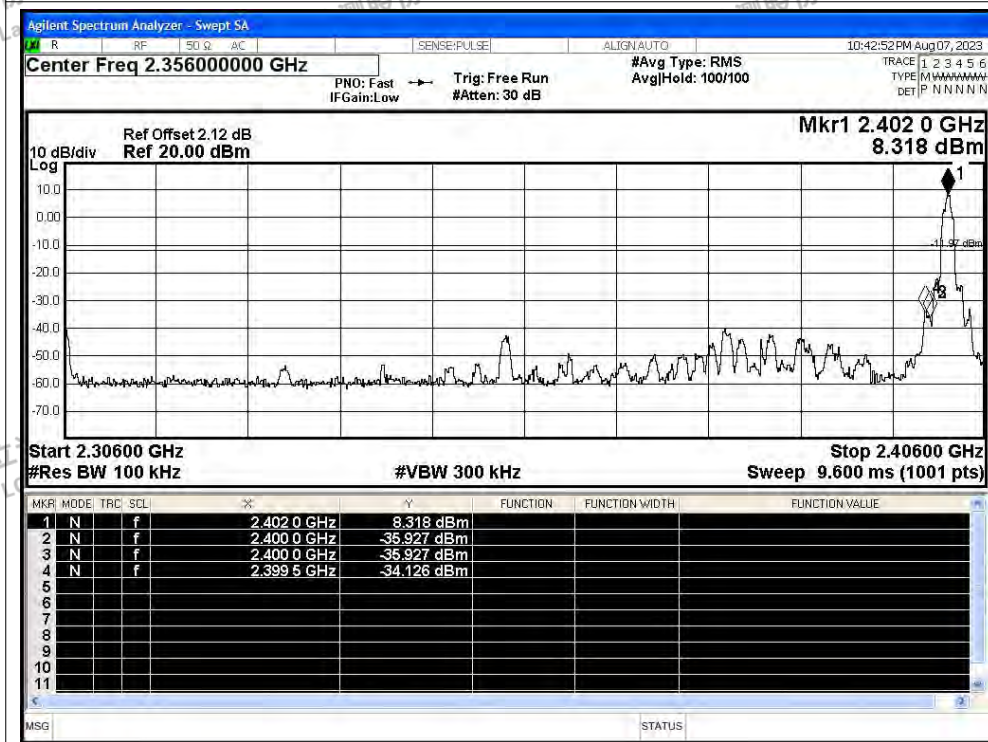




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



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



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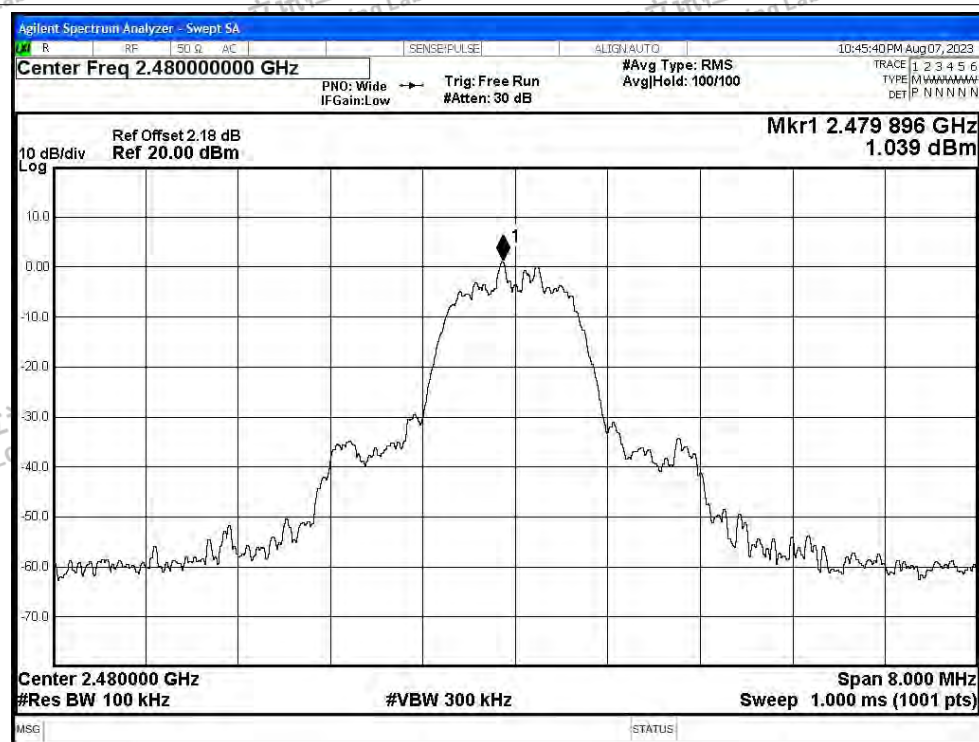
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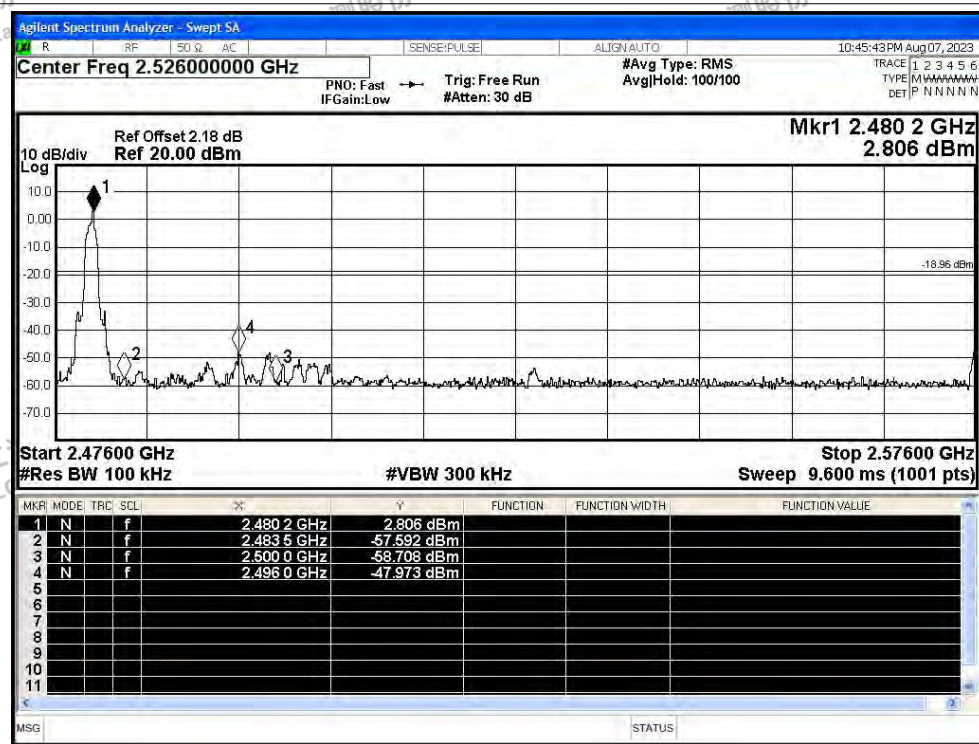
Scan code to check authenticity



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



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





(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-43.69	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-48.23	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-42.09	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-47.18	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-43.14	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-47.51	-20	Pass

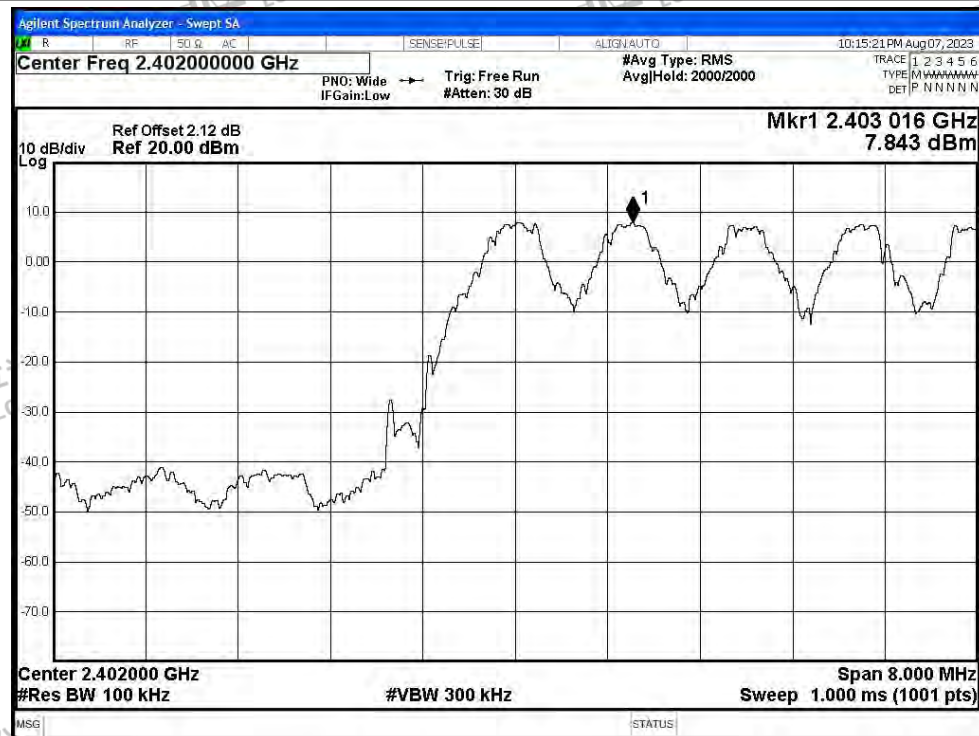


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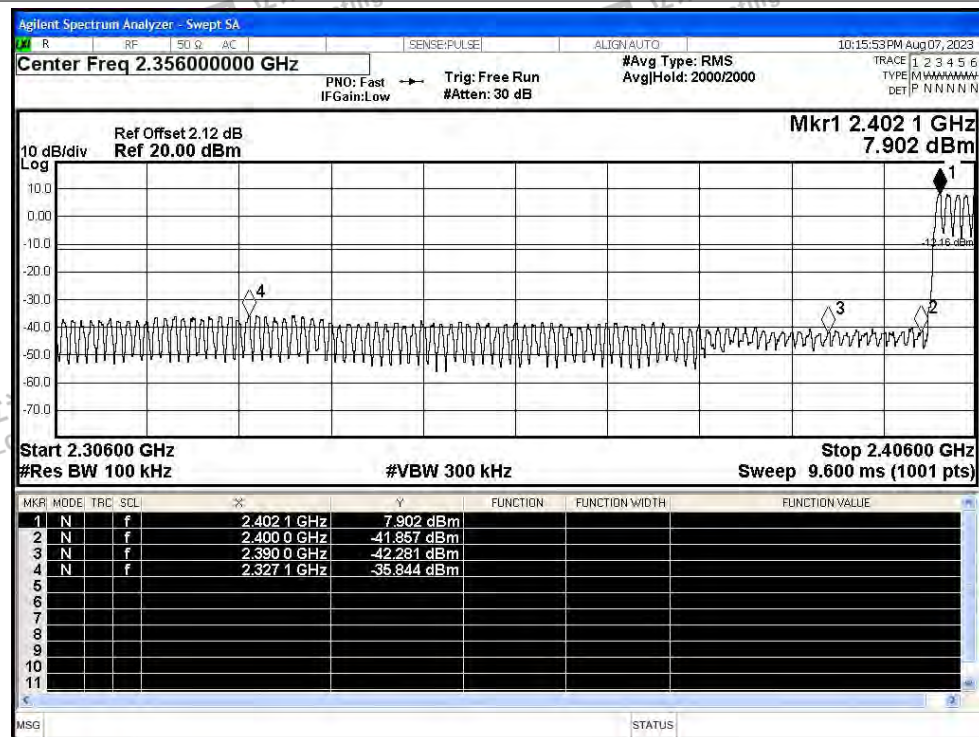


Test Graphs

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



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



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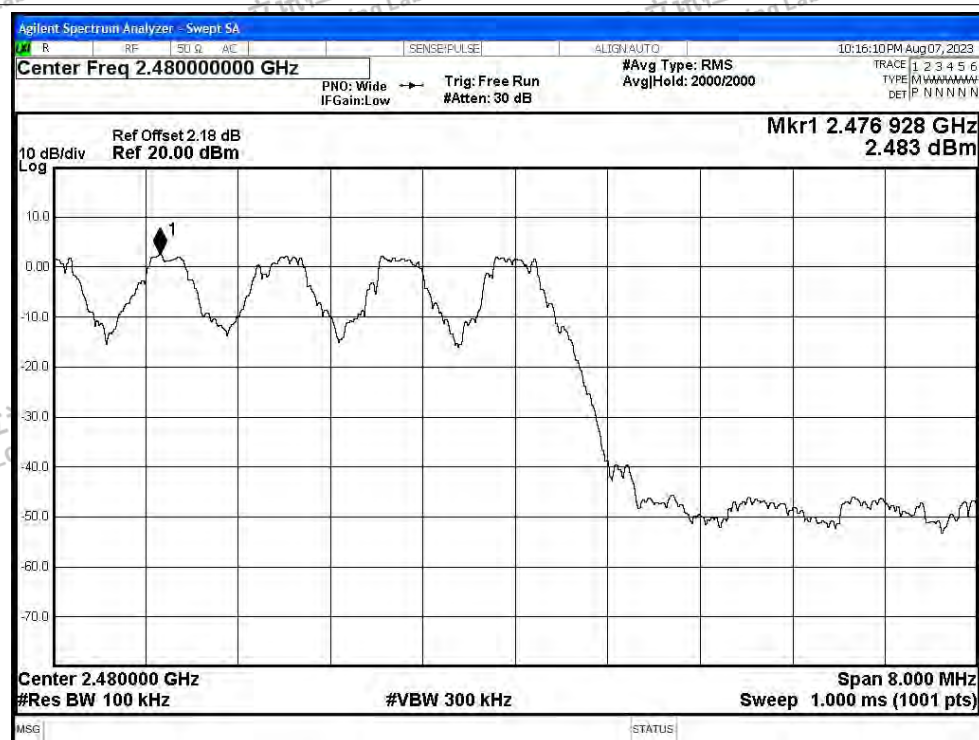
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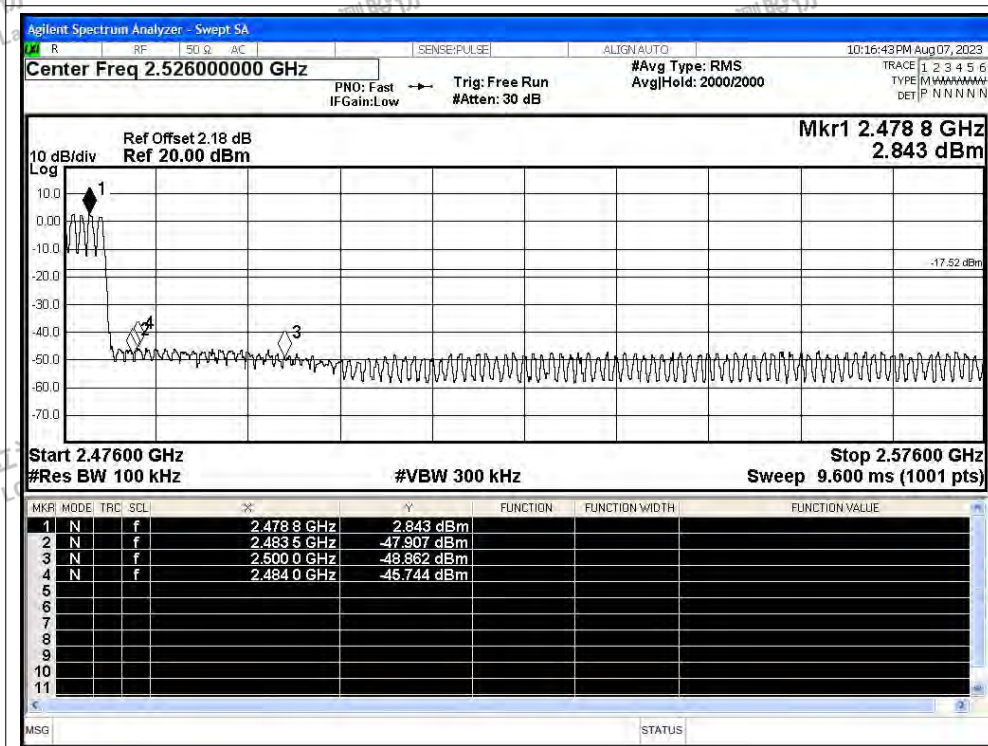
Scan code to check authenticity



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



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



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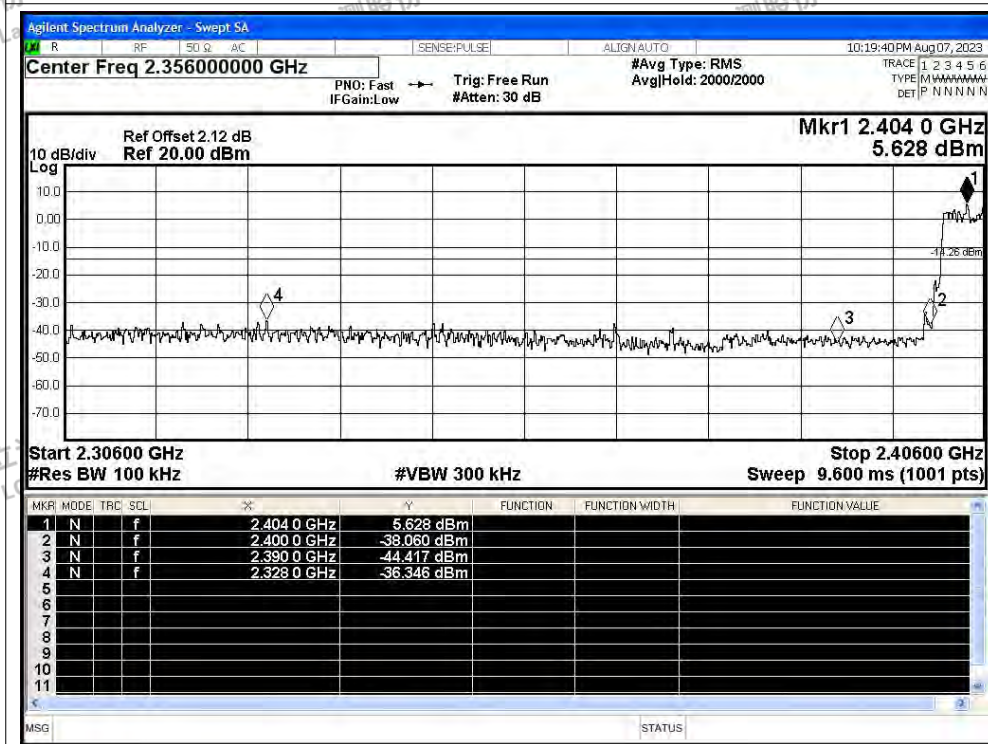
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Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

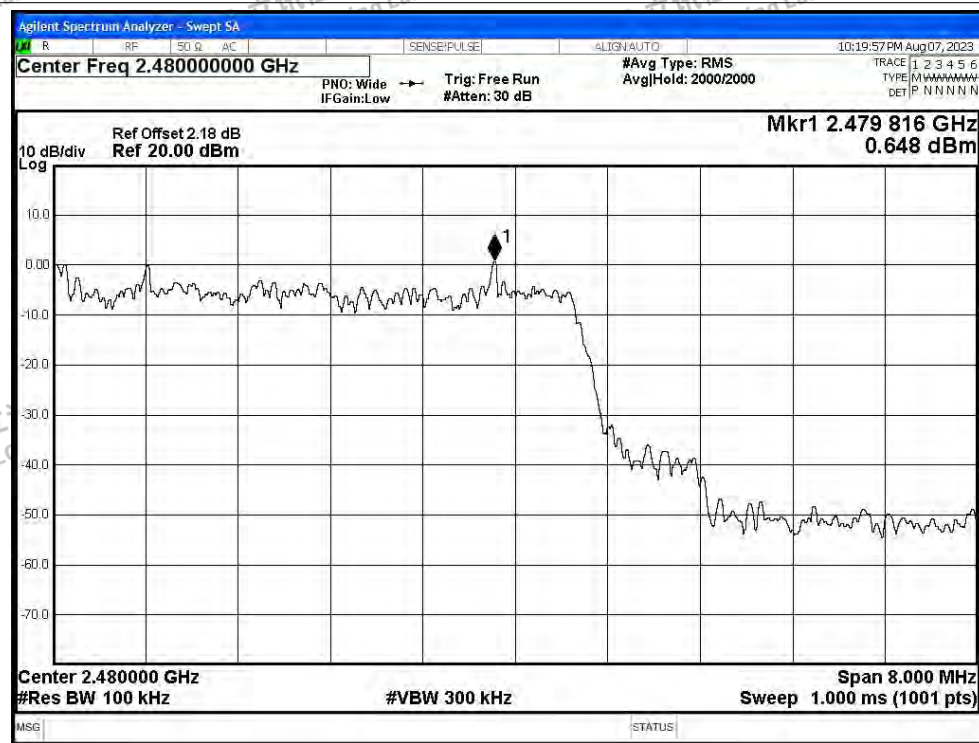
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

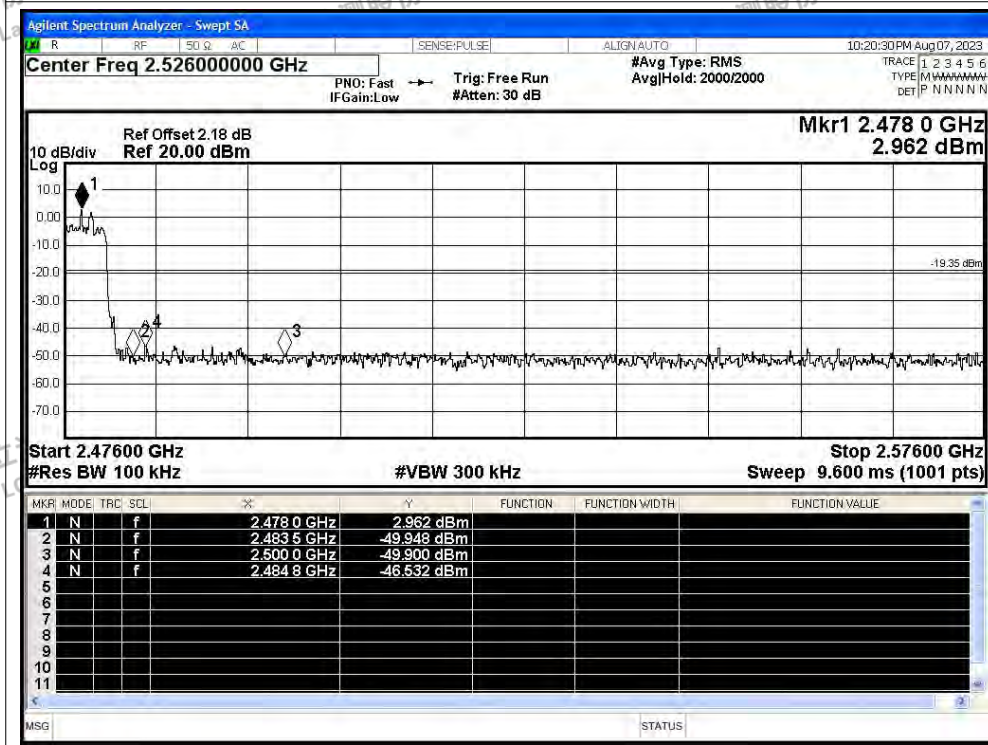
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Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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



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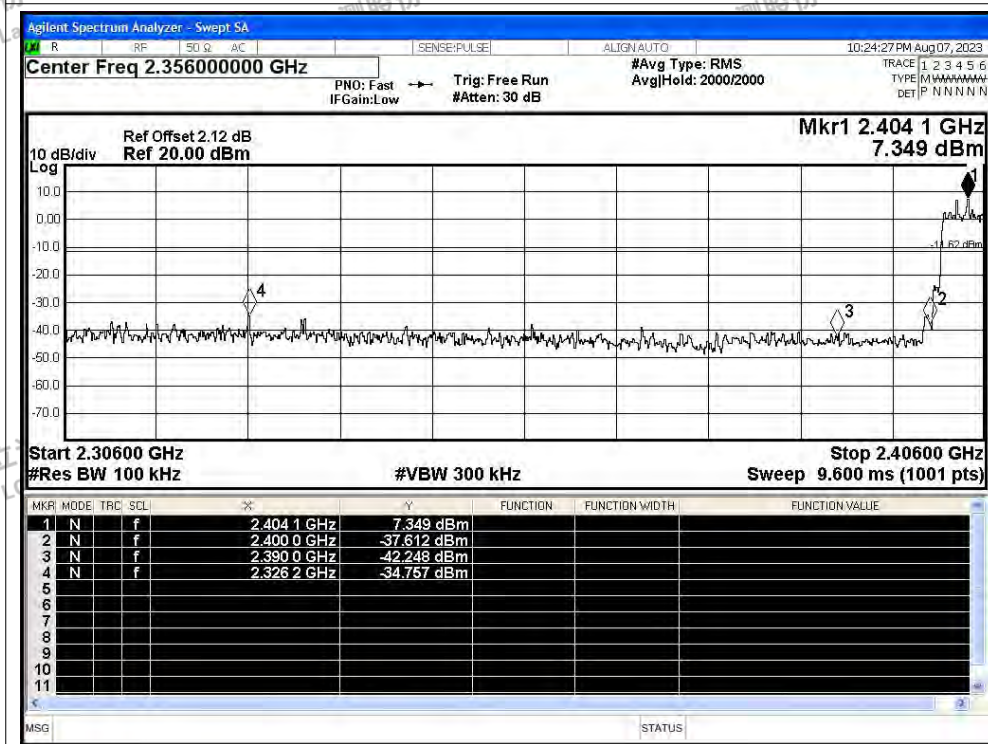
Scan code to check authenticity



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



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



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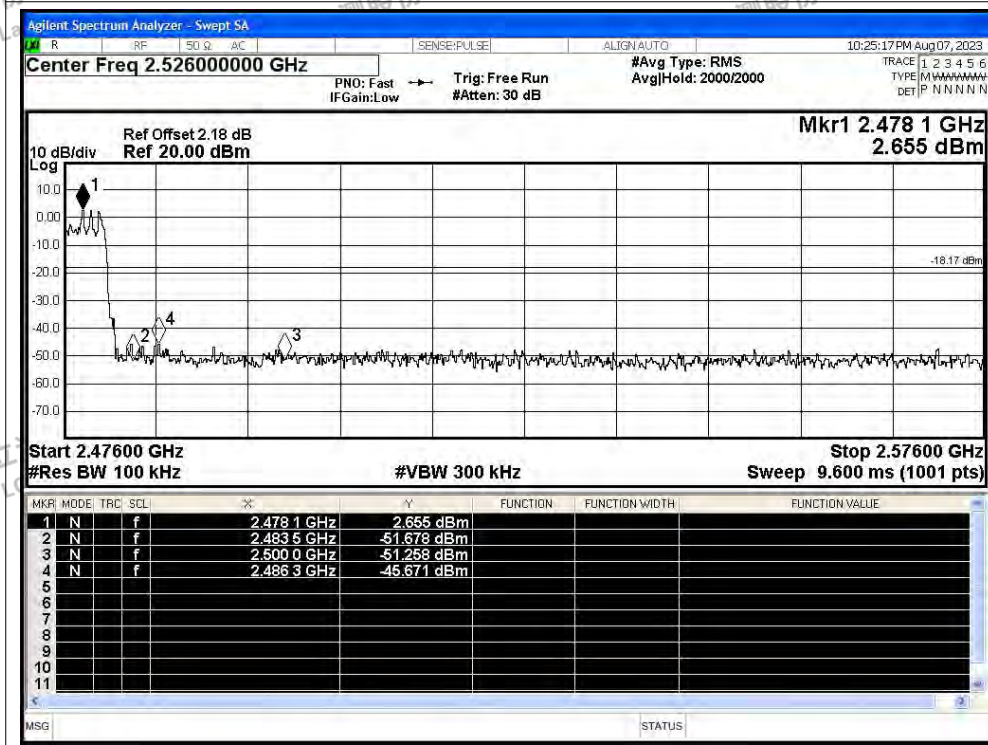
Scan code to check authenticity



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



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





A.8 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-23.17	-20	Pass
NVNT	1-DH5	2441	Ant1	-25.88	-20	Pass
NVNT	1-DH5	2480	Ant1	-27.82	-20	Pass
NVNT	2-DH5	2402	Ant1	-28.35	-20	Pass
NVNT	2-DH5	2441	Ant1	-35.46	-20	Pass
NVNT	2-DH5	2480	Ant1	-35.73	-20	Pass
NVNT	3-DH5	2402	Ant1	-26.35	-20	Pass
NVNT	3-DH5	2441	Ant1	-34.95	-20	Pass
NVNT	3-DH5	2480	Ant1	-30.89	-20	Pass

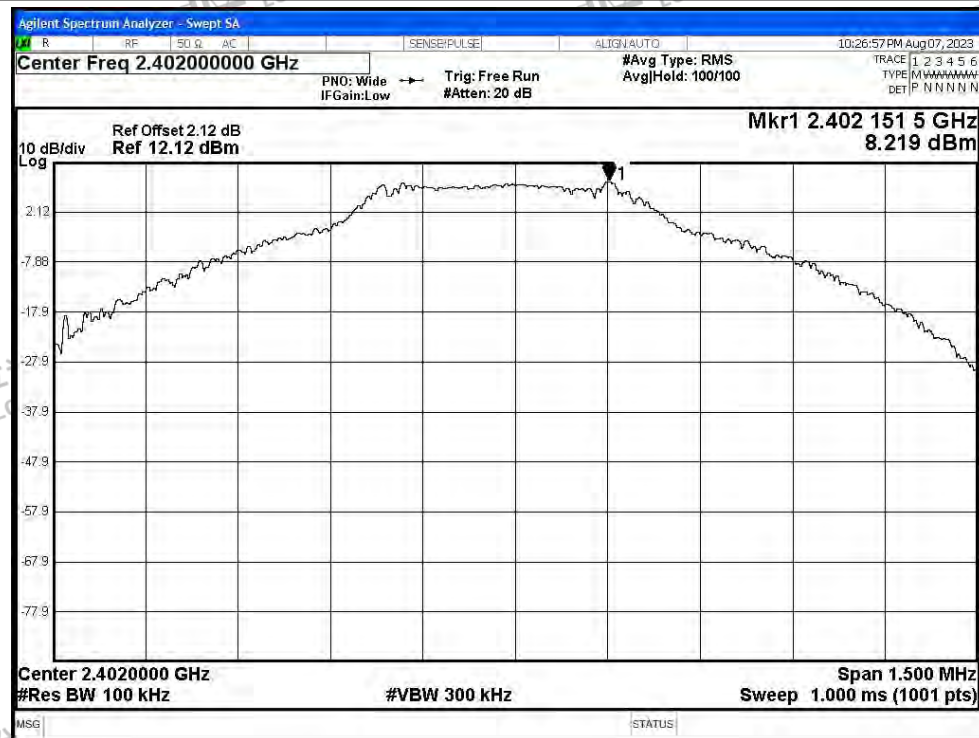


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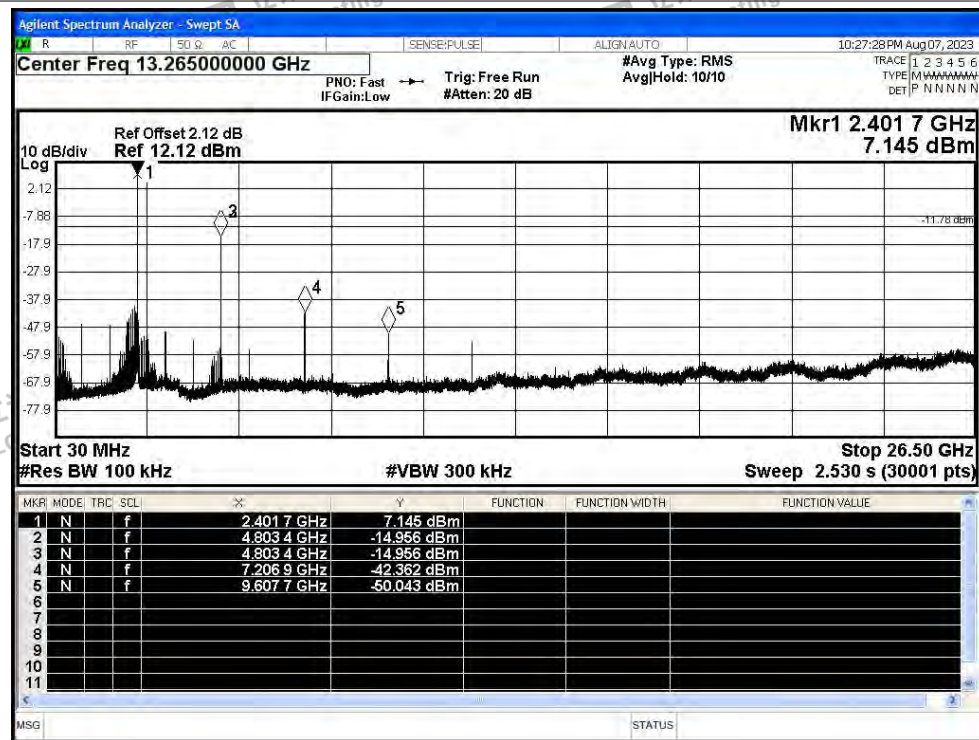


Test Graphs

Tx: Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx: Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

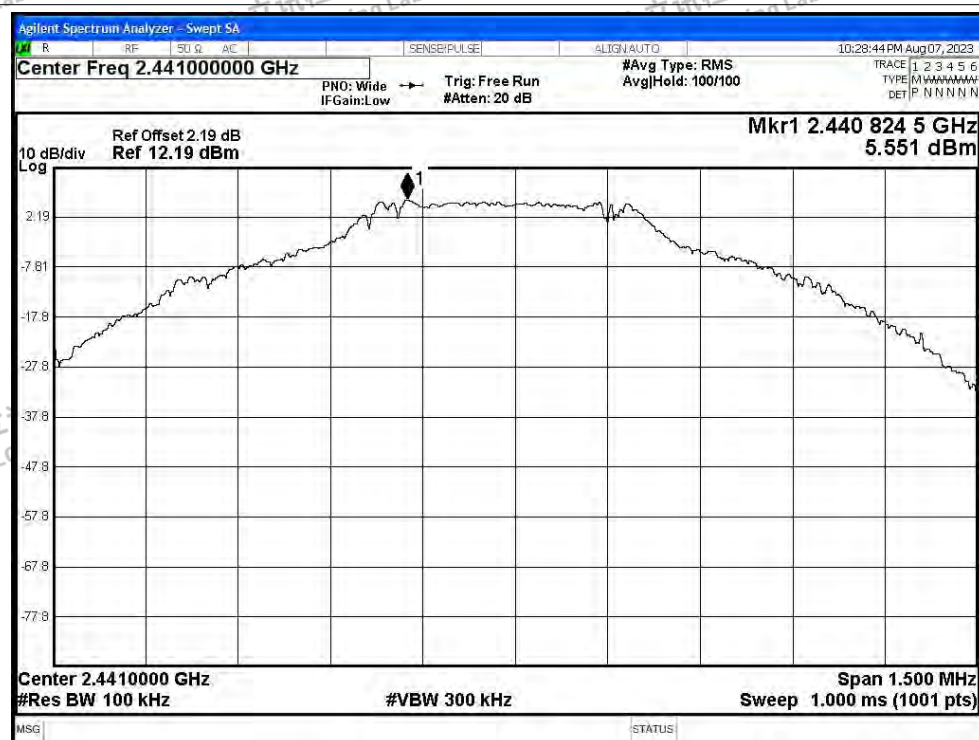
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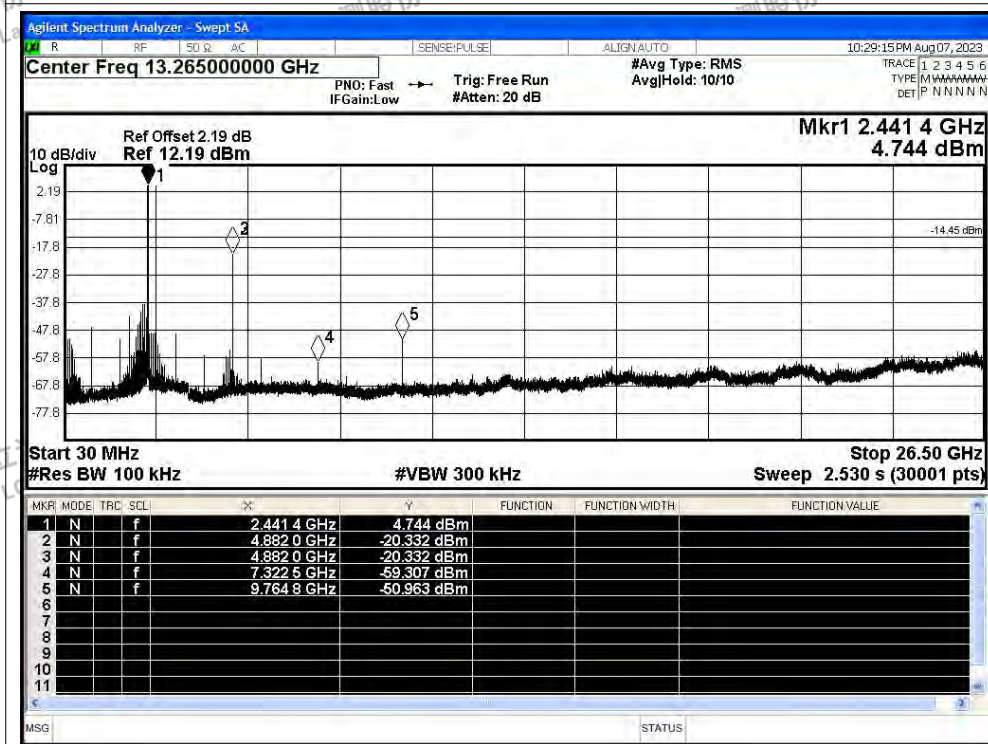
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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

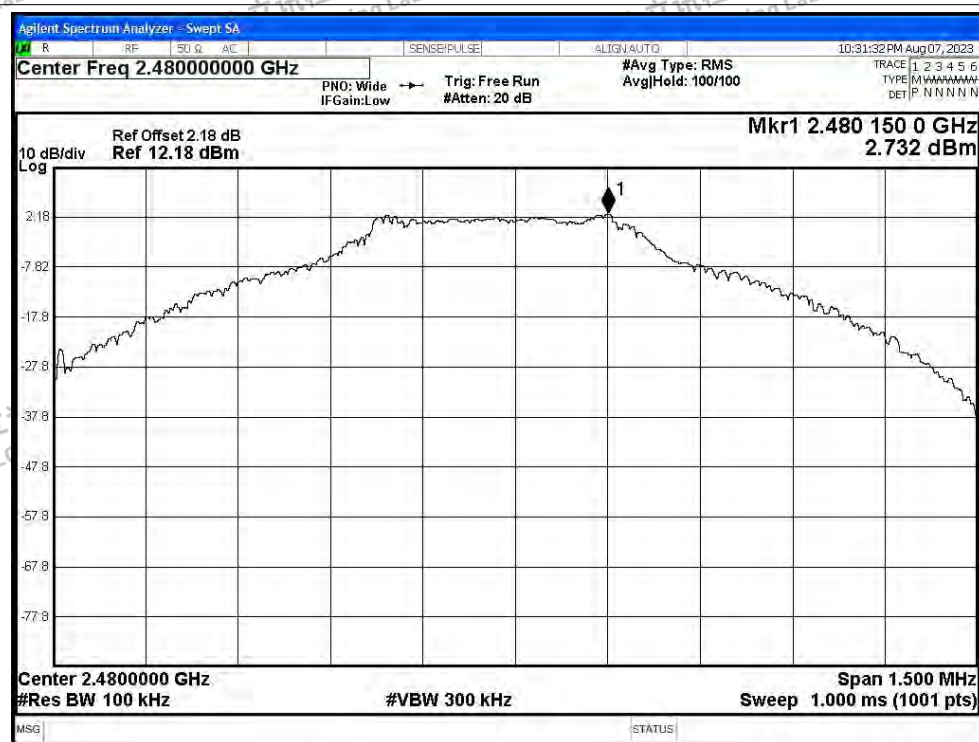


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

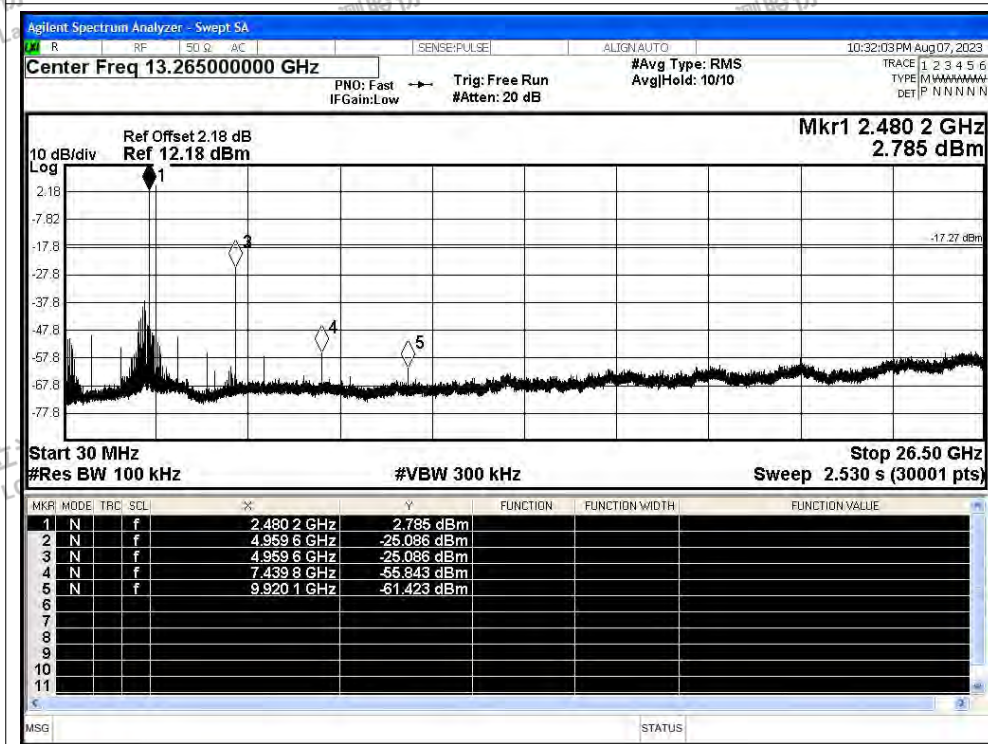




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

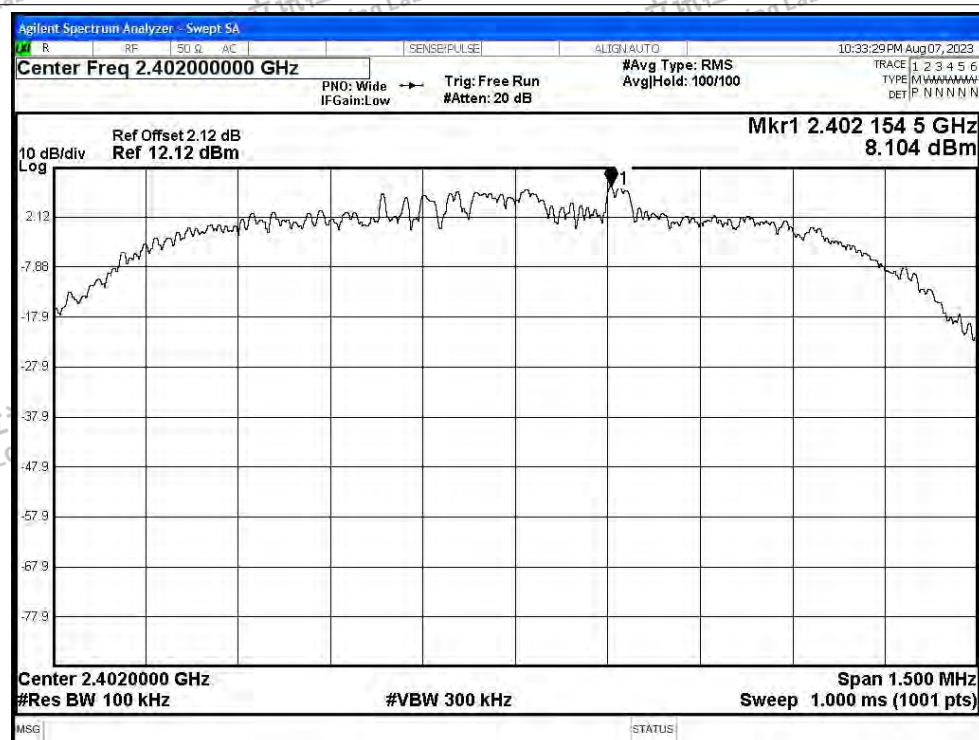
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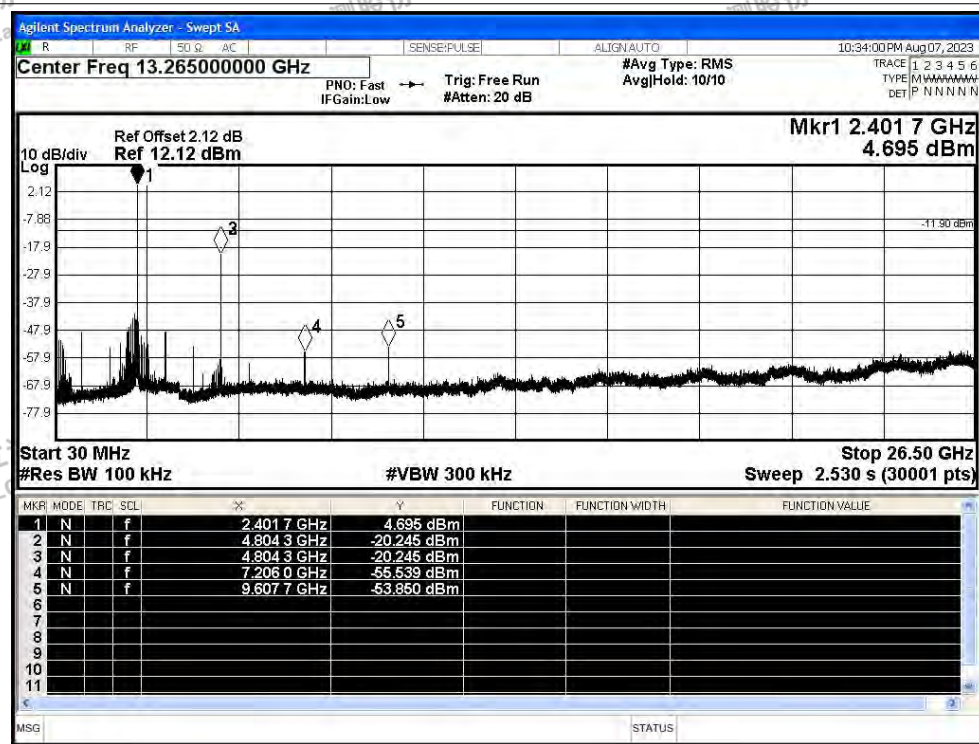
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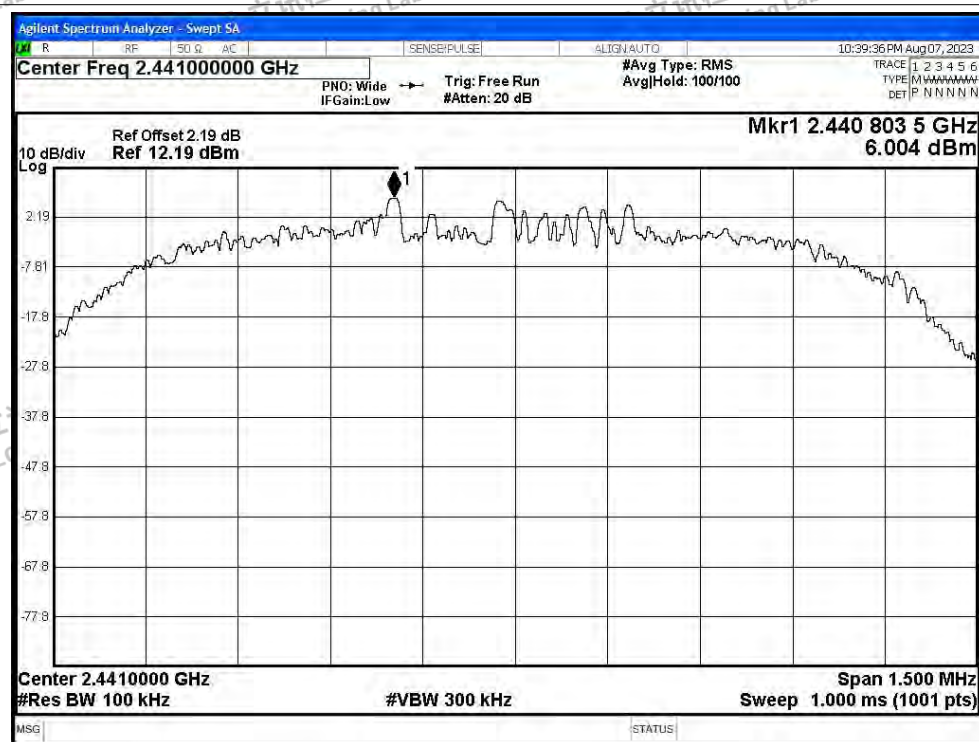


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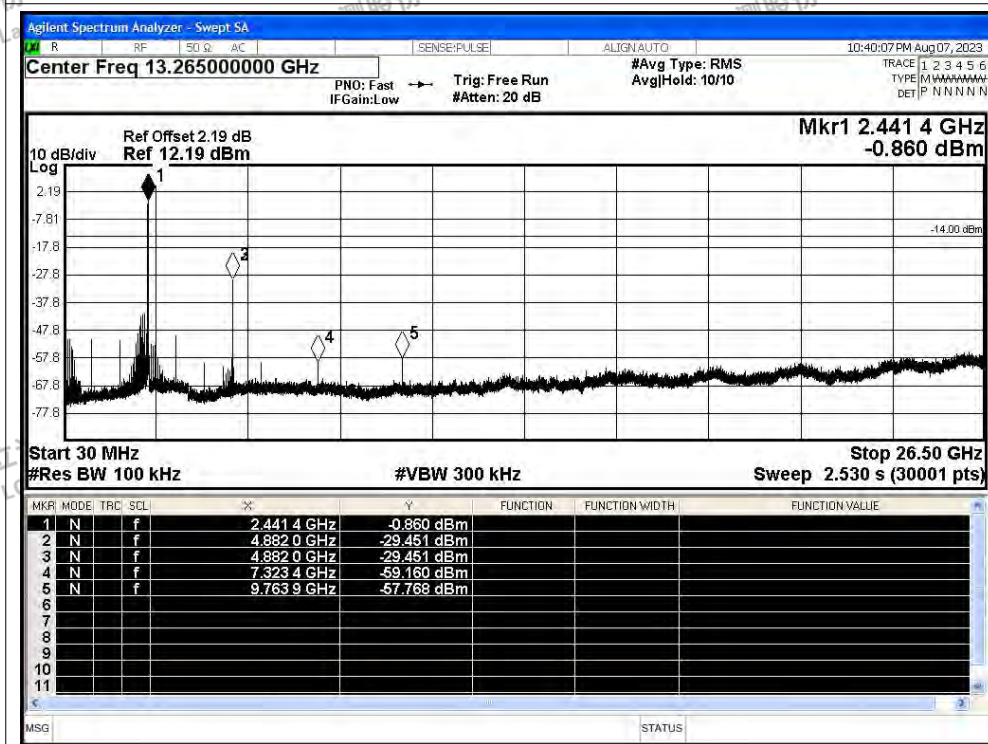




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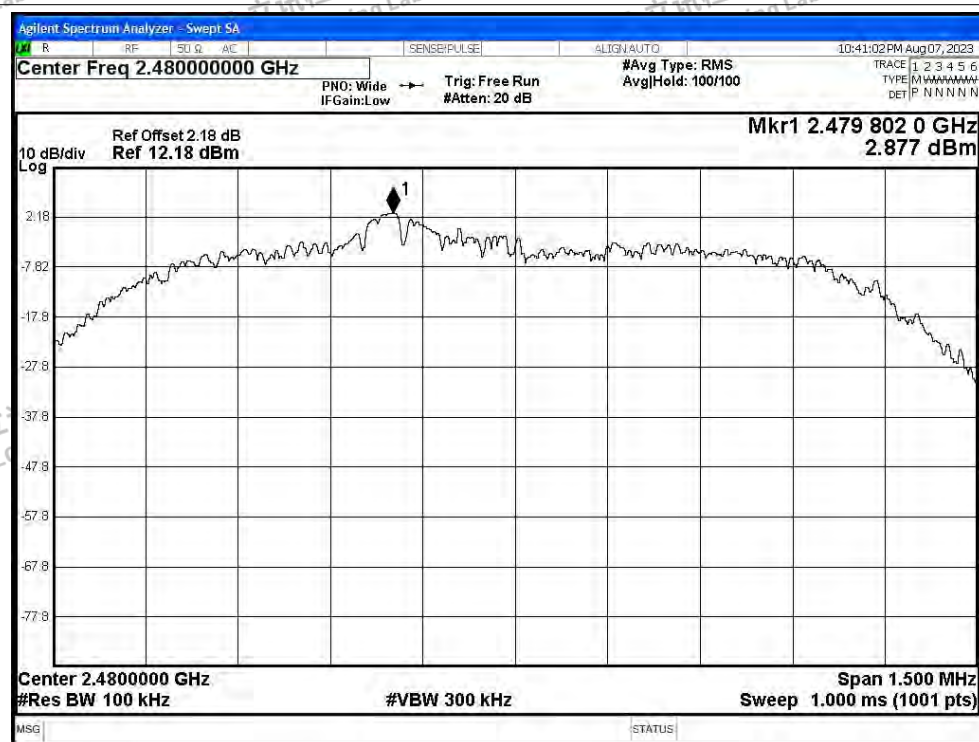


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

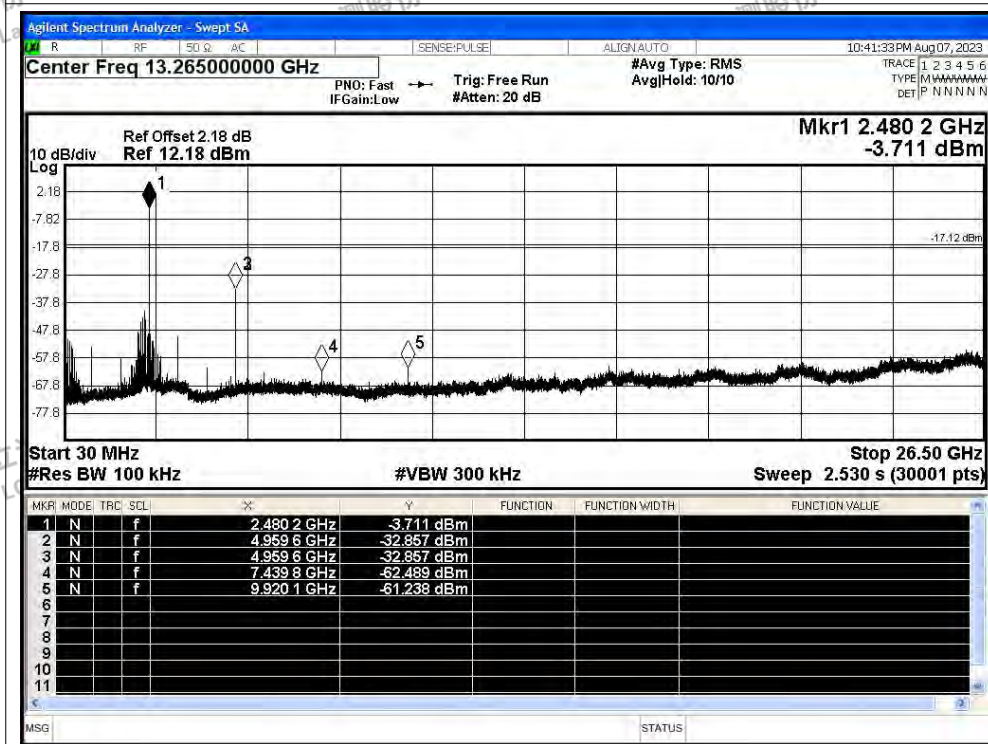




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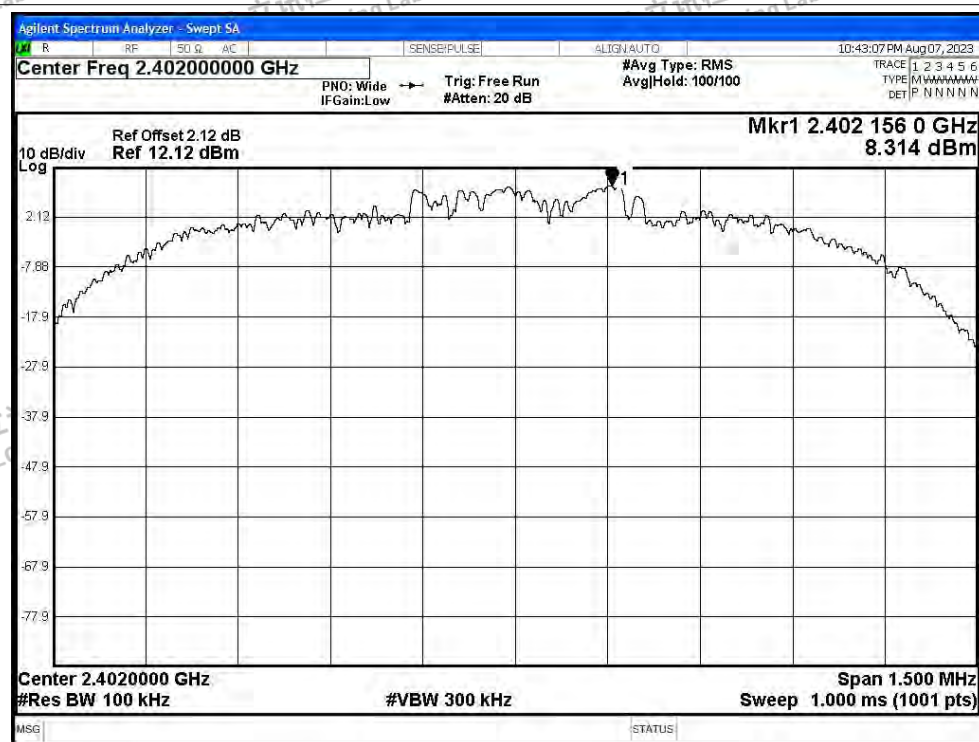


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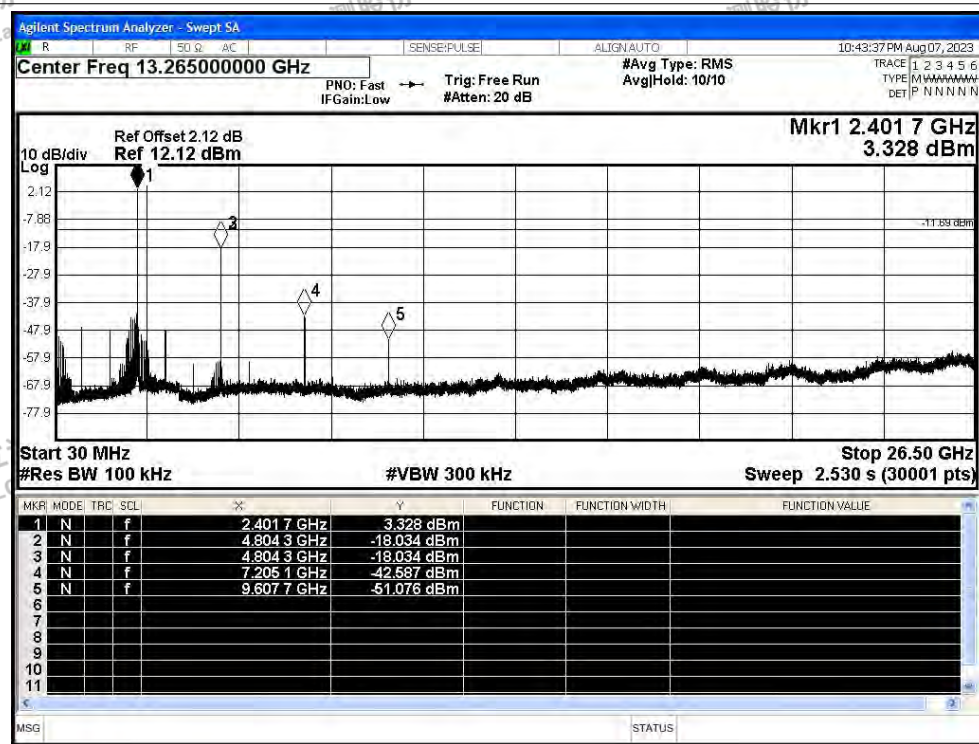




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



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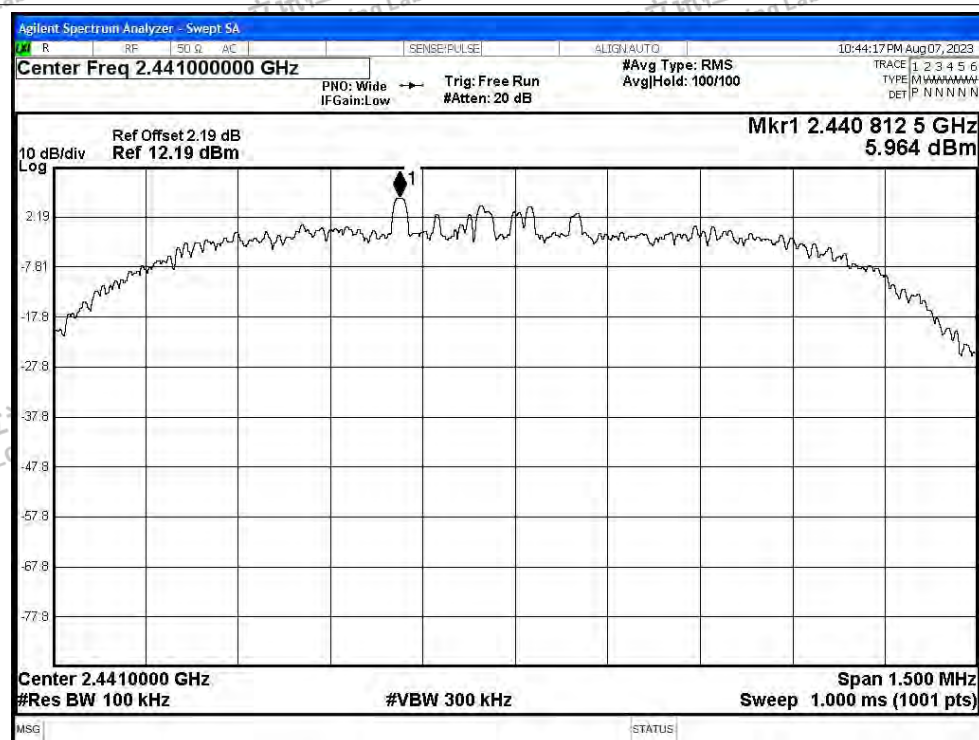
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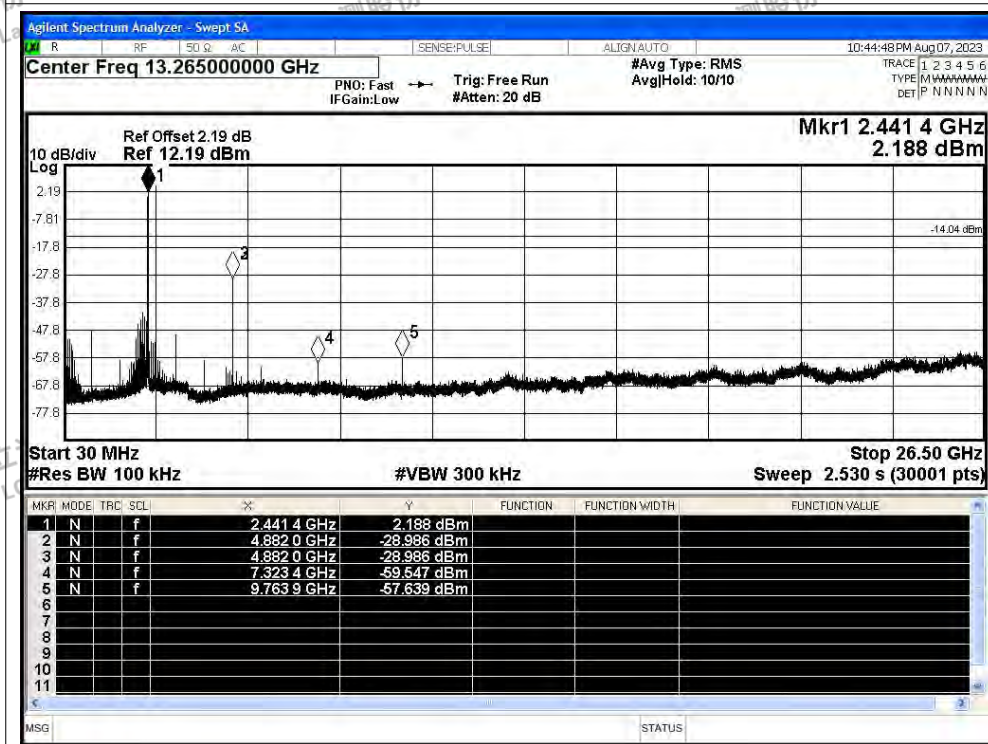
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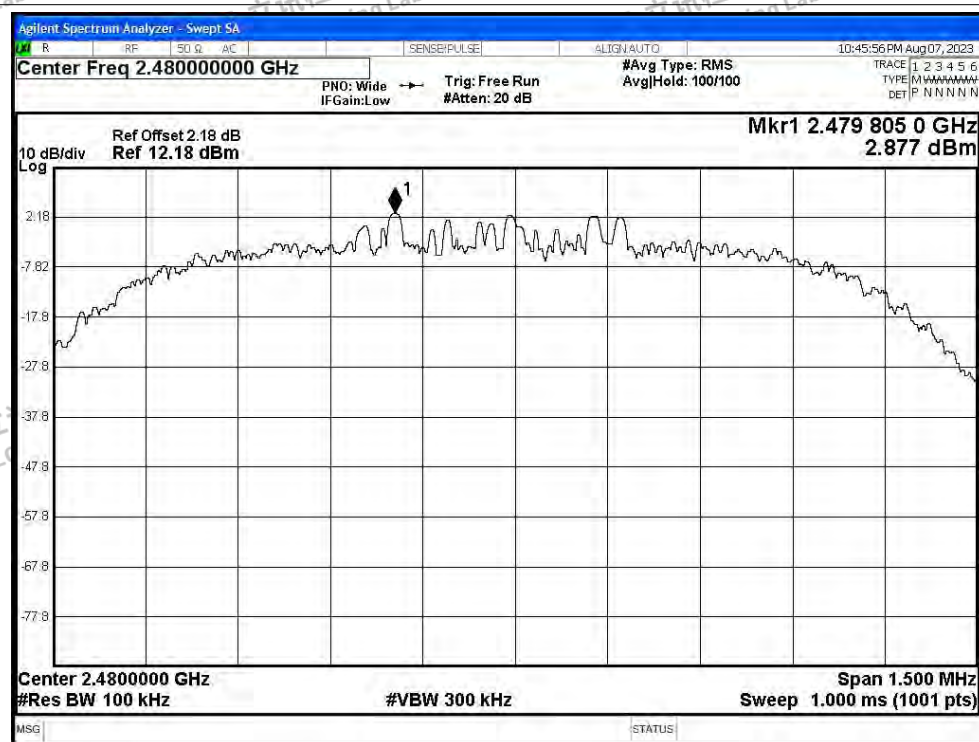


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

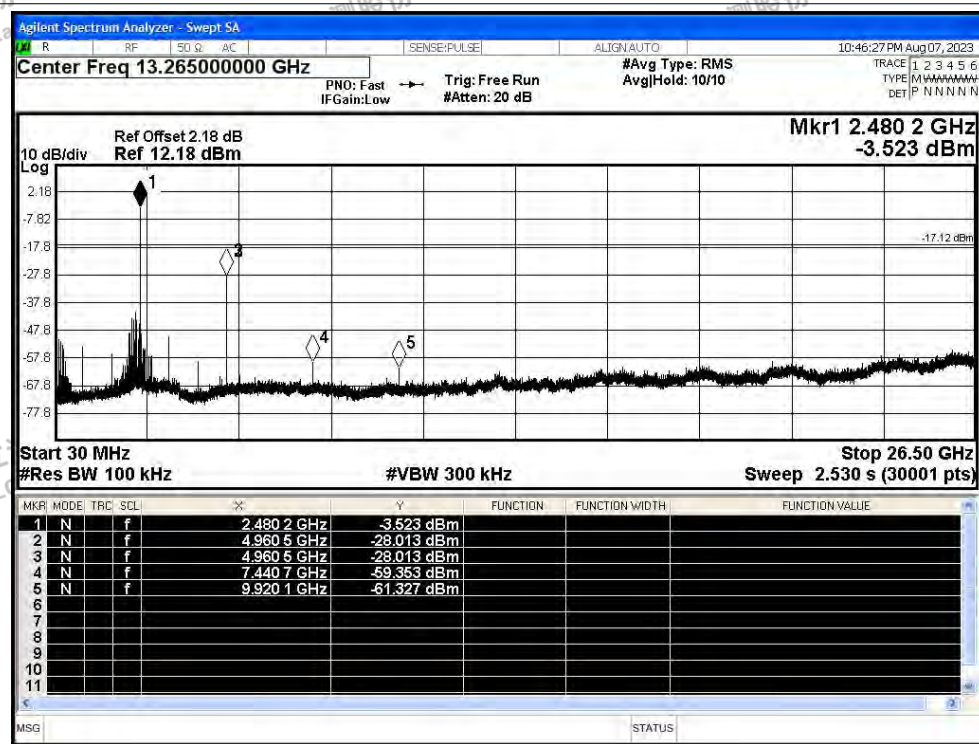




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





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	-50.08	3.38	48.56	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-57.89	3.38	40.75	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2381.232	-38.61	3.38	60.03	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2378.064	-46.34	3.38	52.30	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-43.15	3.38	55.49	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.02	3.38	49.62	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-48.82	3.38	49.82	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-54.47	3.38	44.17	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2499.304	-41.79	3.38	56.85	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2495.944	-46.96	3.38	51.68	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-45.88	3.38	52.76	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-51.55	3.38	47.09	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.06	3.38	47.58	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-57.53	3.38	41.11	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2354.16	-39.56	3.38	59.08	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2353.968	-47.41	3.38	51.23	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-43.79	3.38	54.85	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-48.13	3.38	50.51	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.13	3.38	50.51	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-54.94	3.38	43.70	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.848	-41.72	3.38	56.92	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2499.232	-50.04	3.38	48.60	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-46.23	3.38	52.41	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-53.09	3.38	45.55	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-49.35	3.38	49.29	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-57.83	3.38	40.81	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2377.872	-41.54	3.38	57.10	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2377.968	-45.22	3.38	53.42	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-44.73	3.38	53.91	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.14	3.38	47.50	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.67	3.38	48.97	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-54.88	3.38	43.76	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2499.136	-42.63	3.38	56.01	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2499.088	-50.07	3.38	48.57	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-47.2	3.38	51.44	Peak	74	Pass
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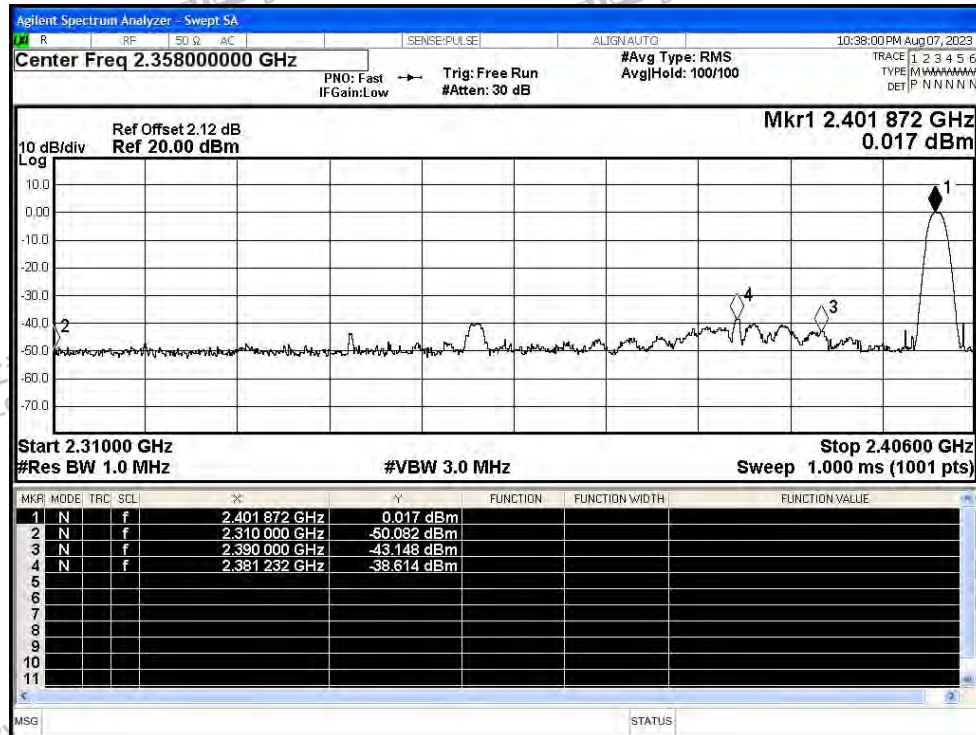


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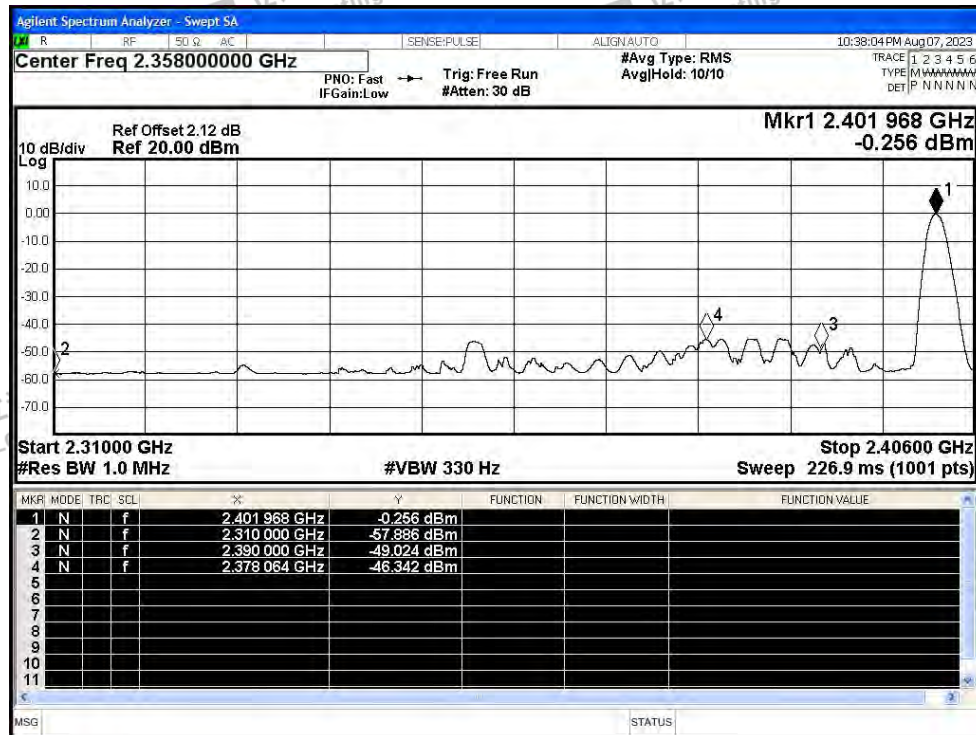


Test Graphs

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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

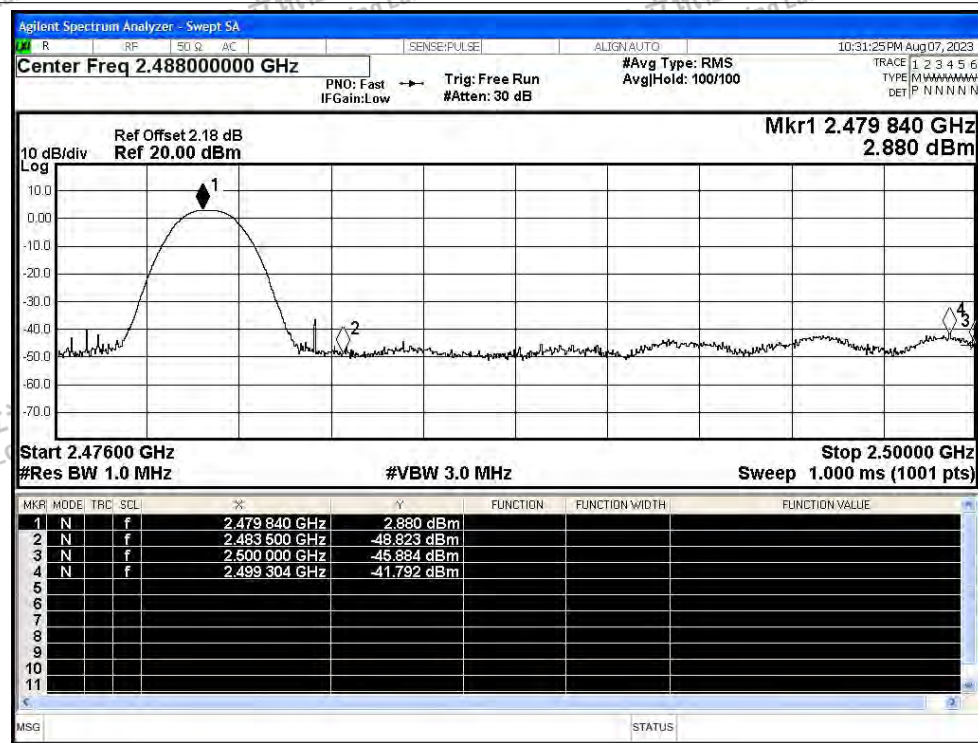
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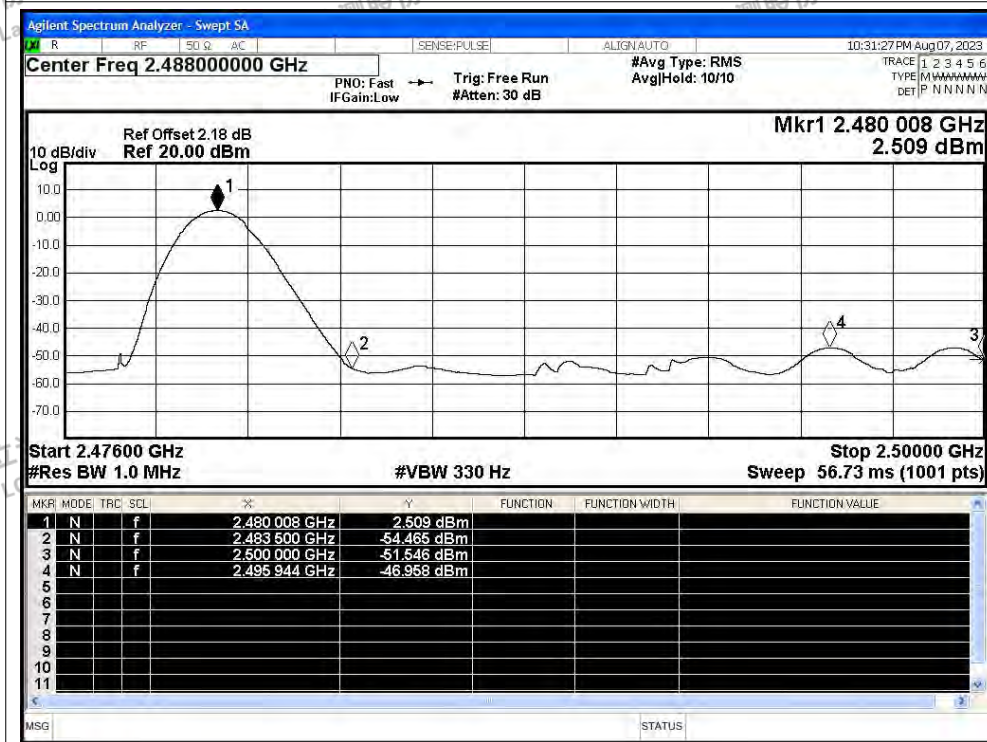
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

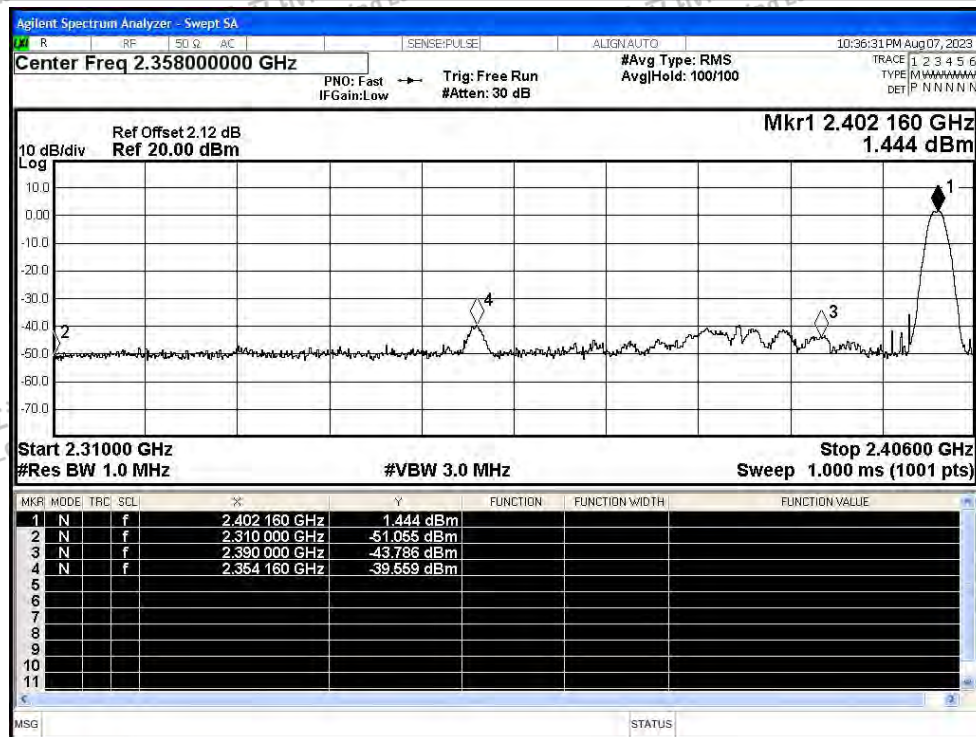
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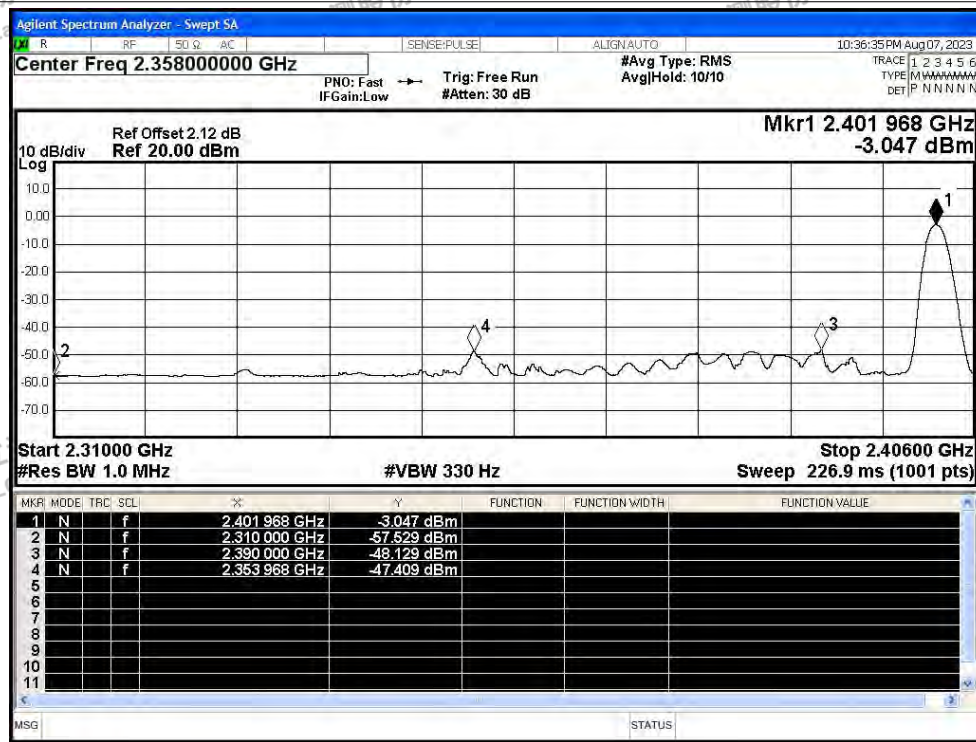
Scan code to check authenticity



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



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



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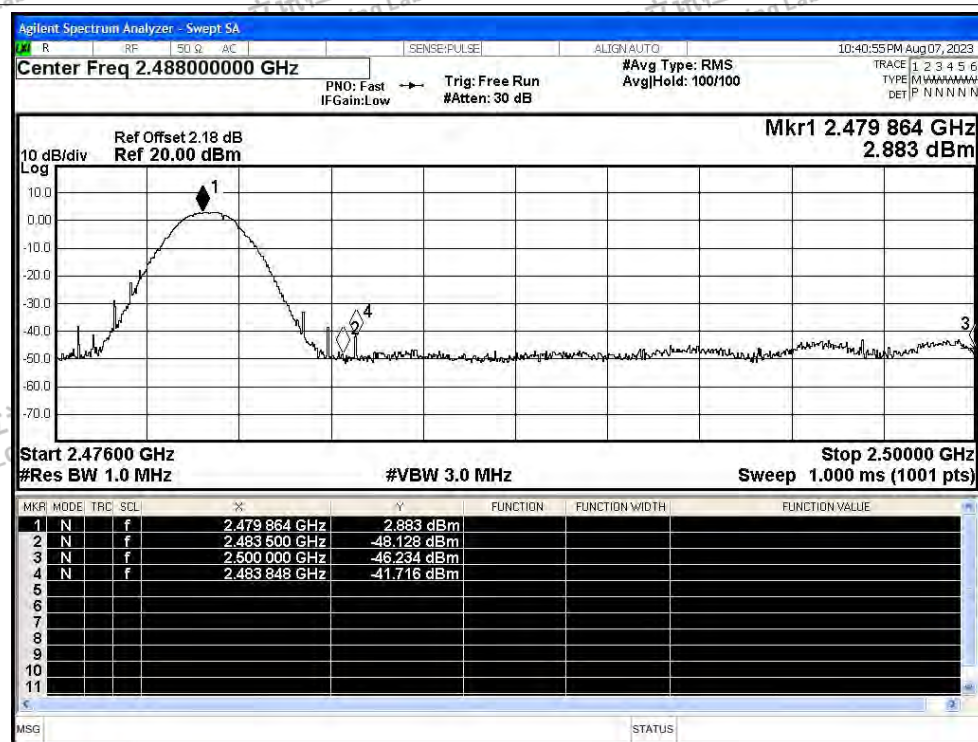
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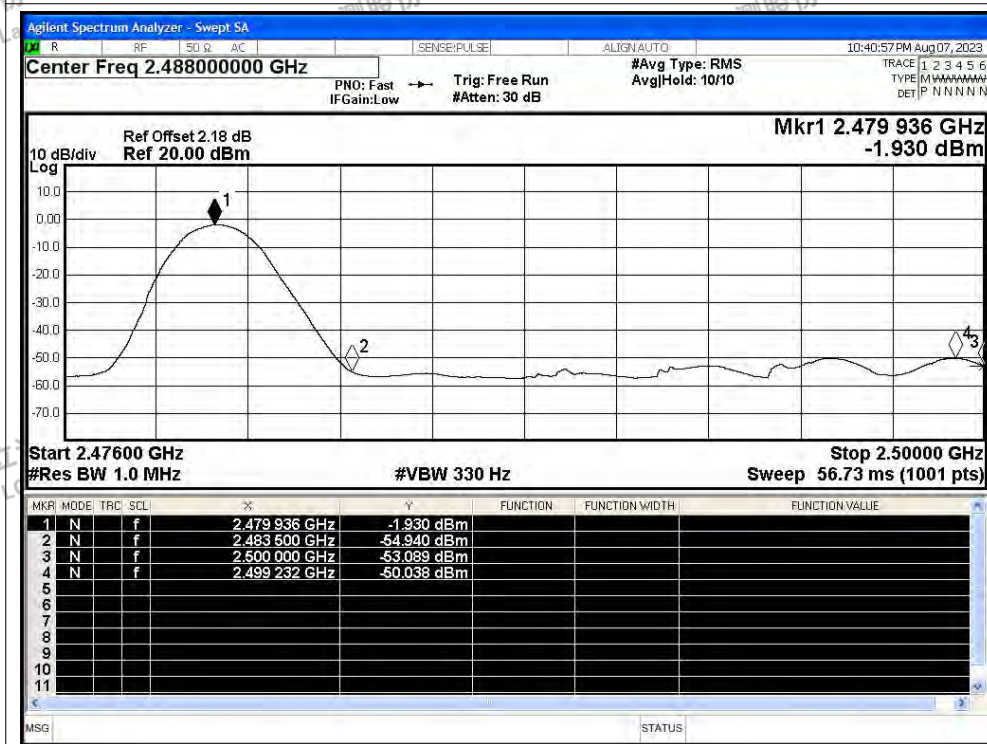
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

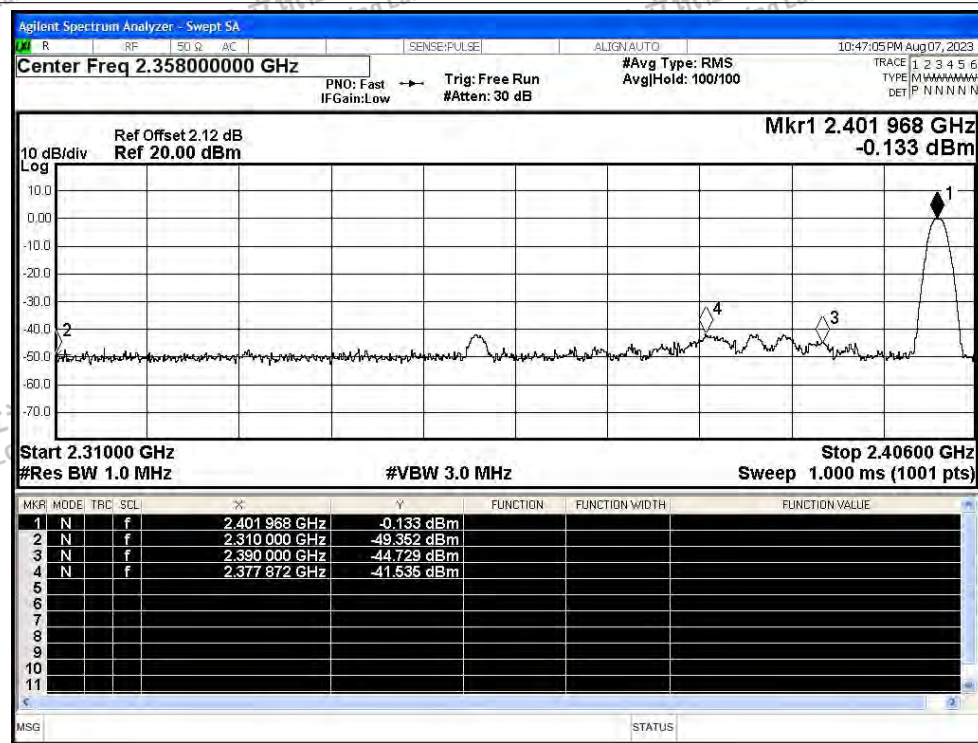
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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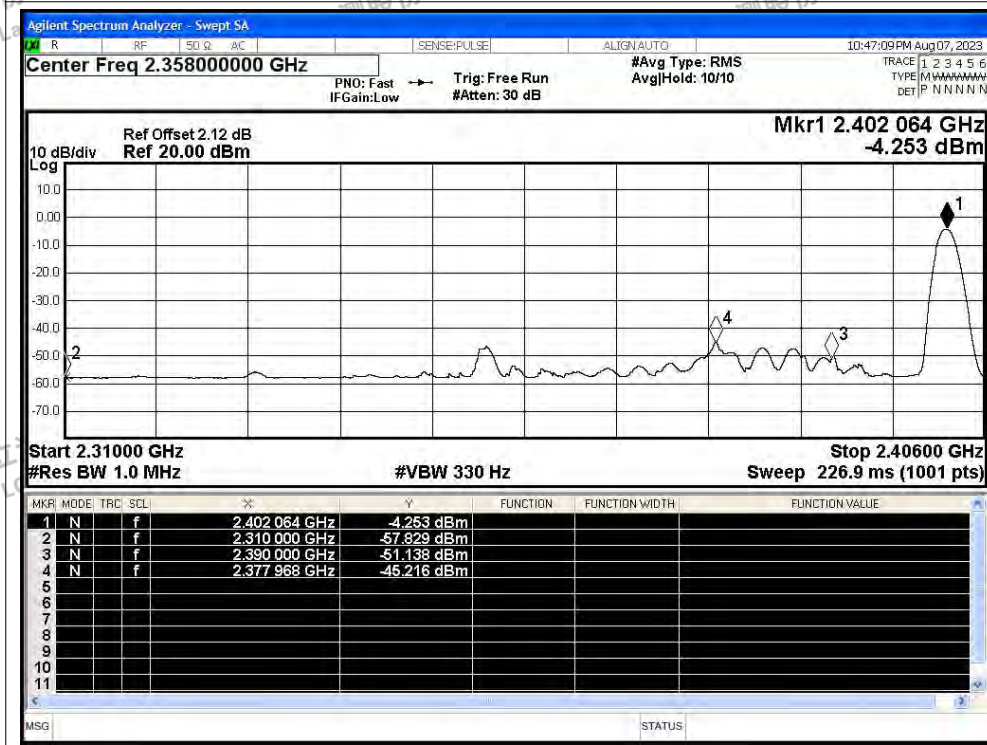
Scan code to check authenticity



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

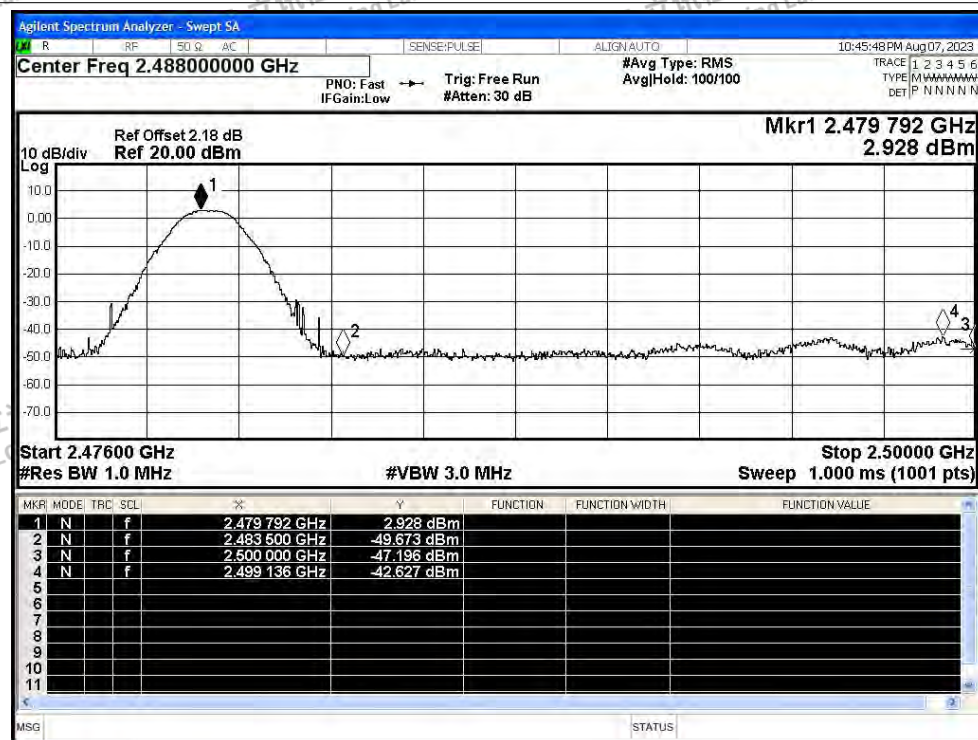


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average

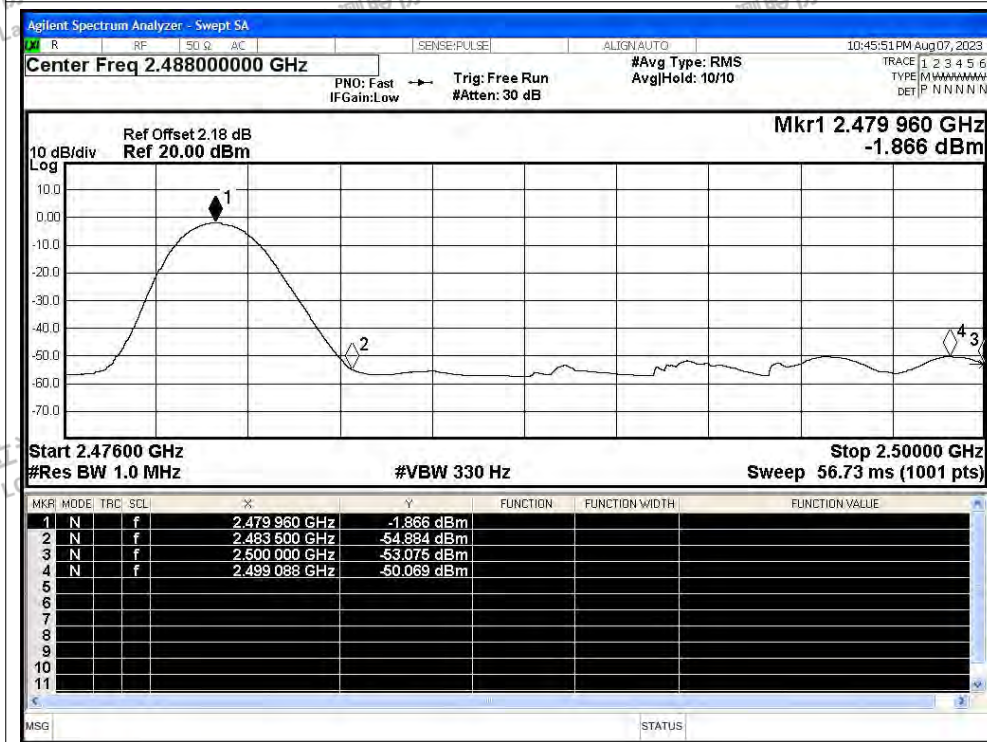




Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

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