



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless Speaker

Test Model: G30

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Taylor Hu</i> Taylor Hu
Supervised by:	<i>Li Huan</i> Li Huan





A.1 -20dB Bandwidth

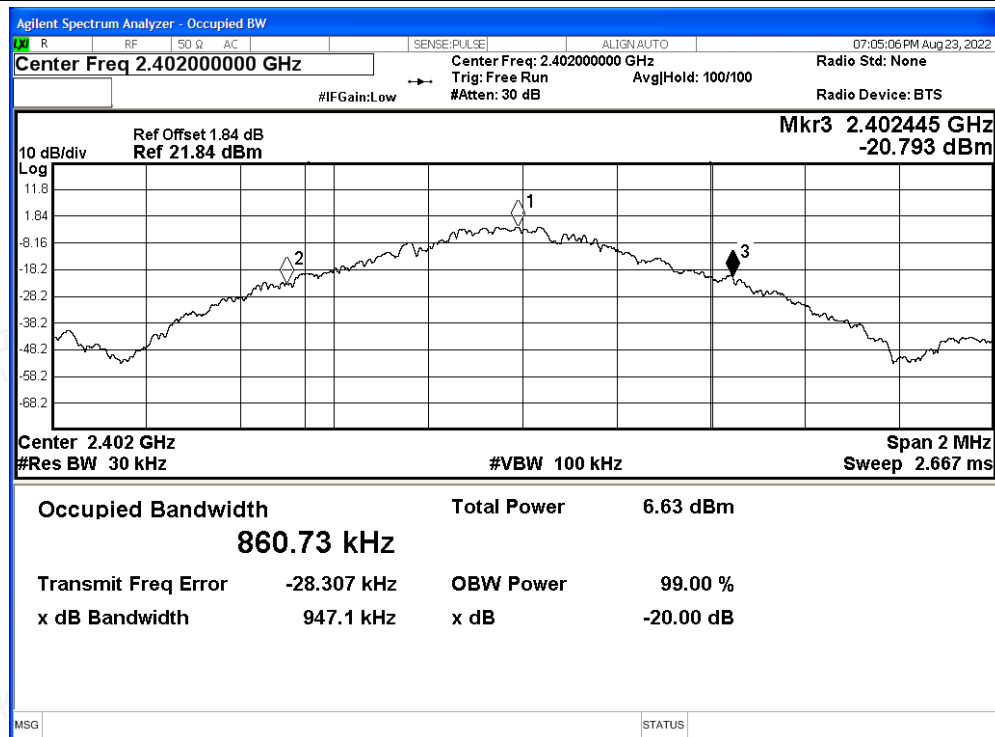
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.947	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.952	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.927	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.316	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.302	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.329	N/A	Pass



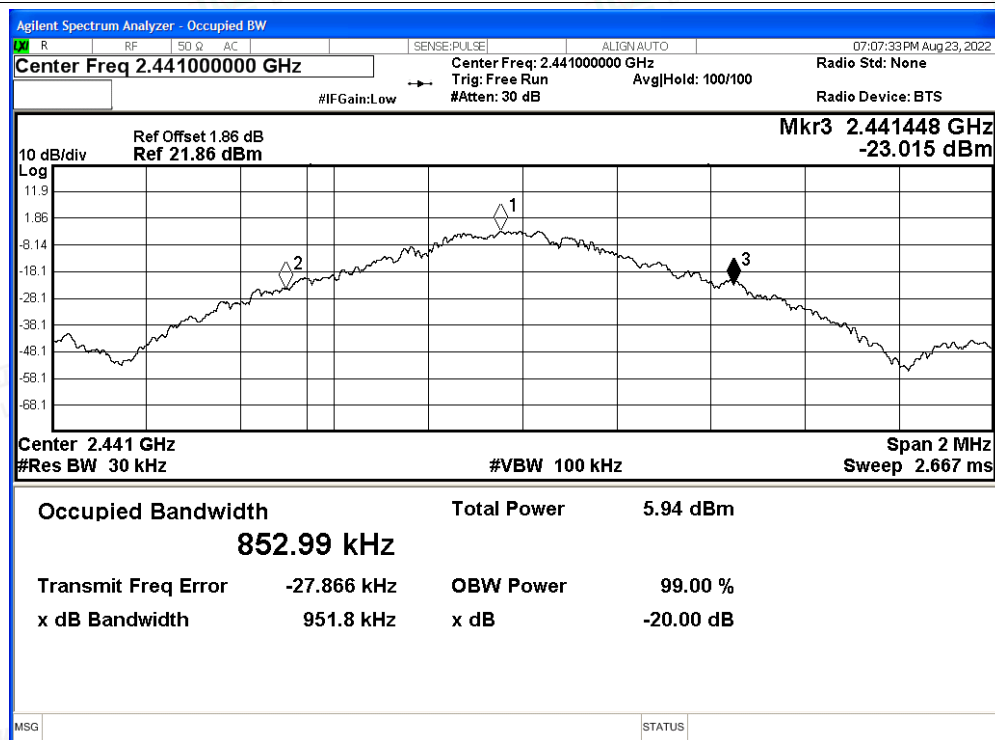


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

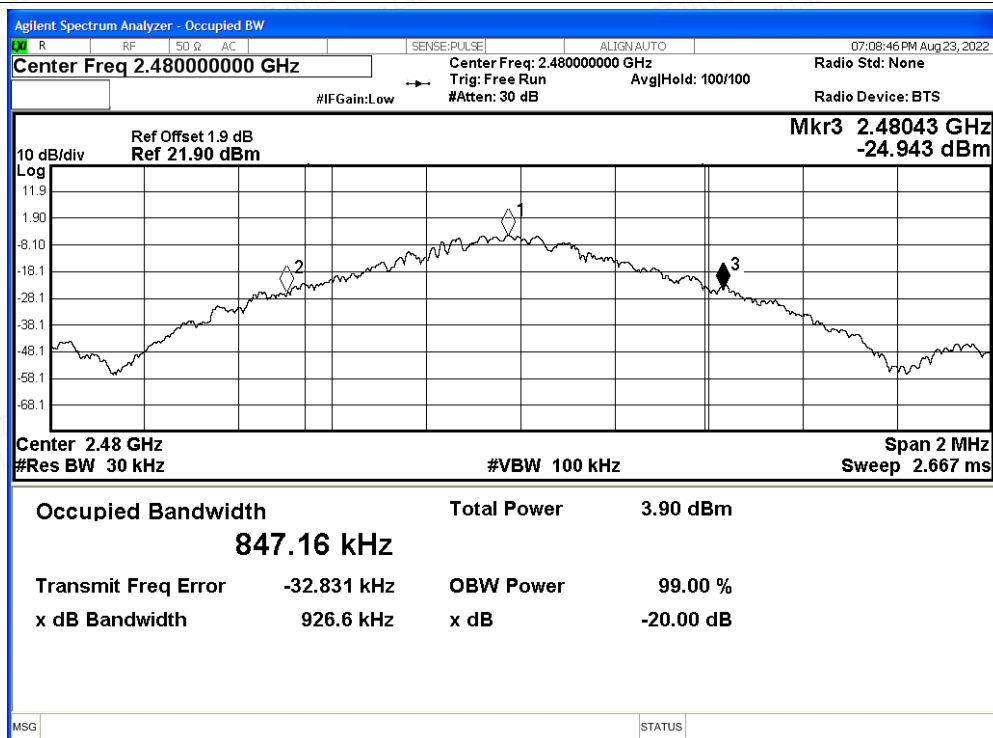


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

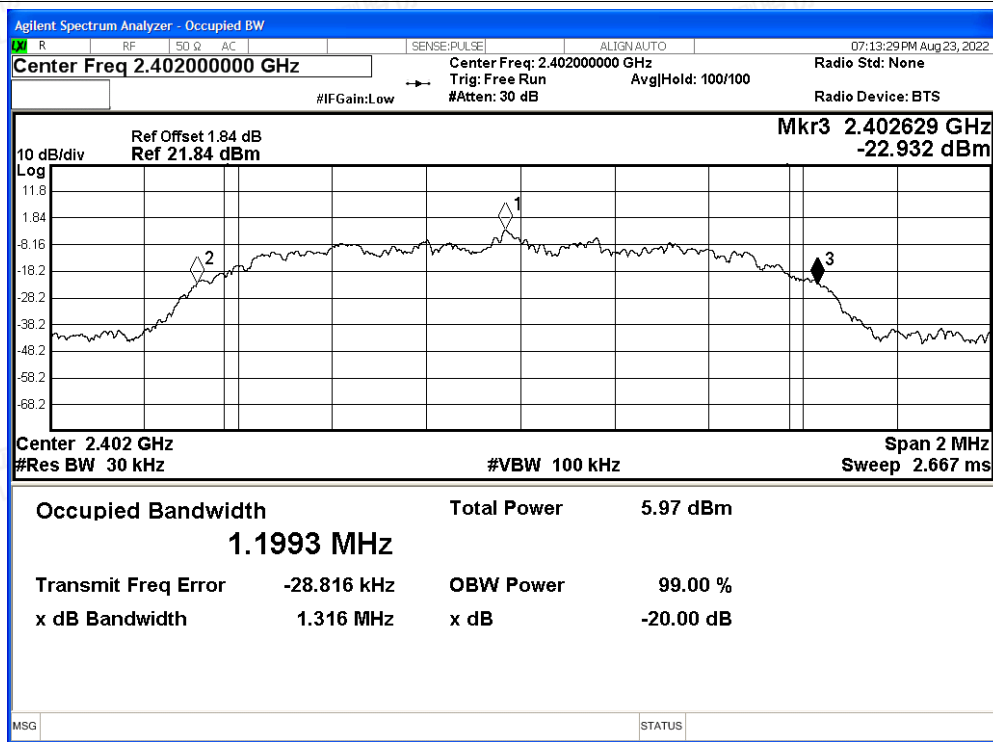




-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

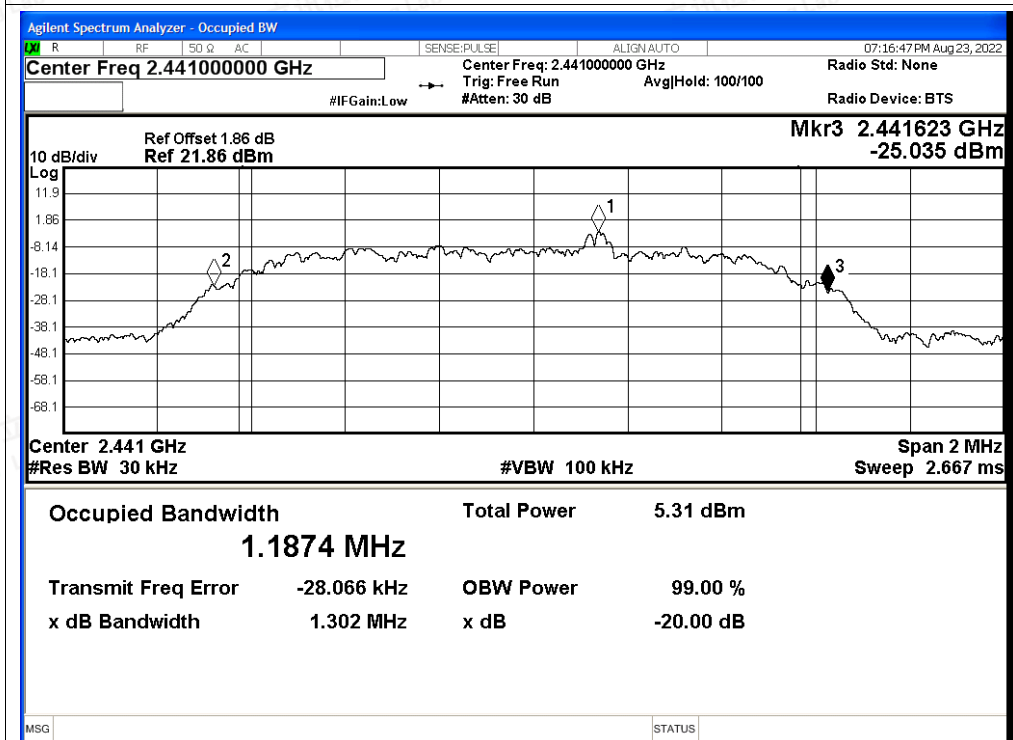


-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

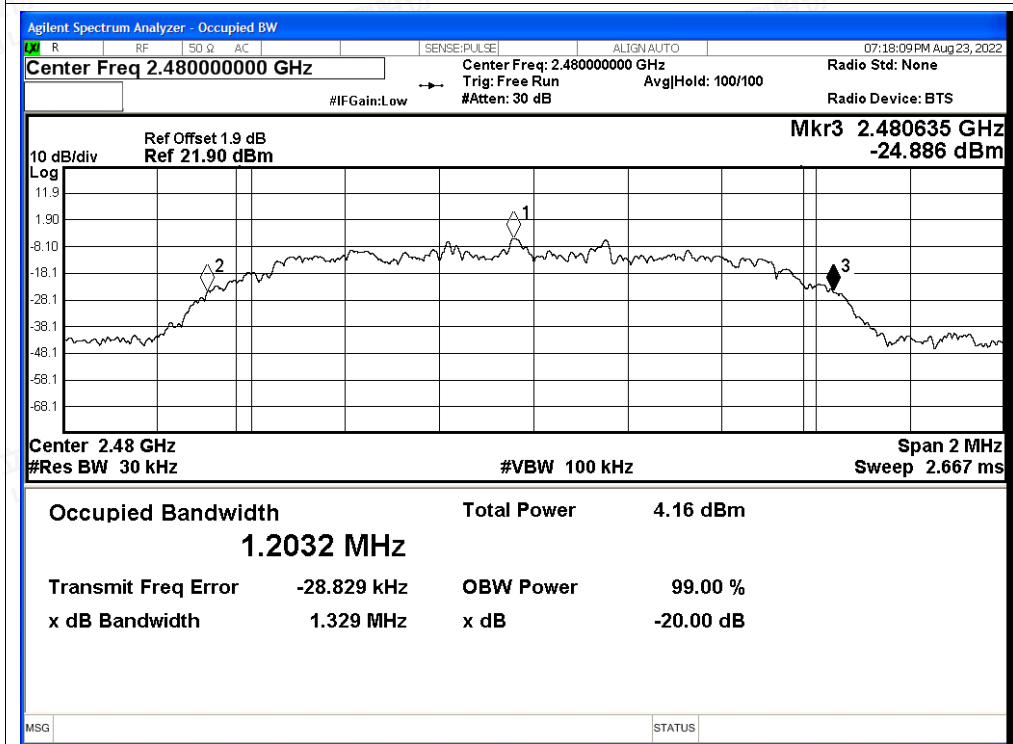




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1





A.2 Maximum Conducted Output Power

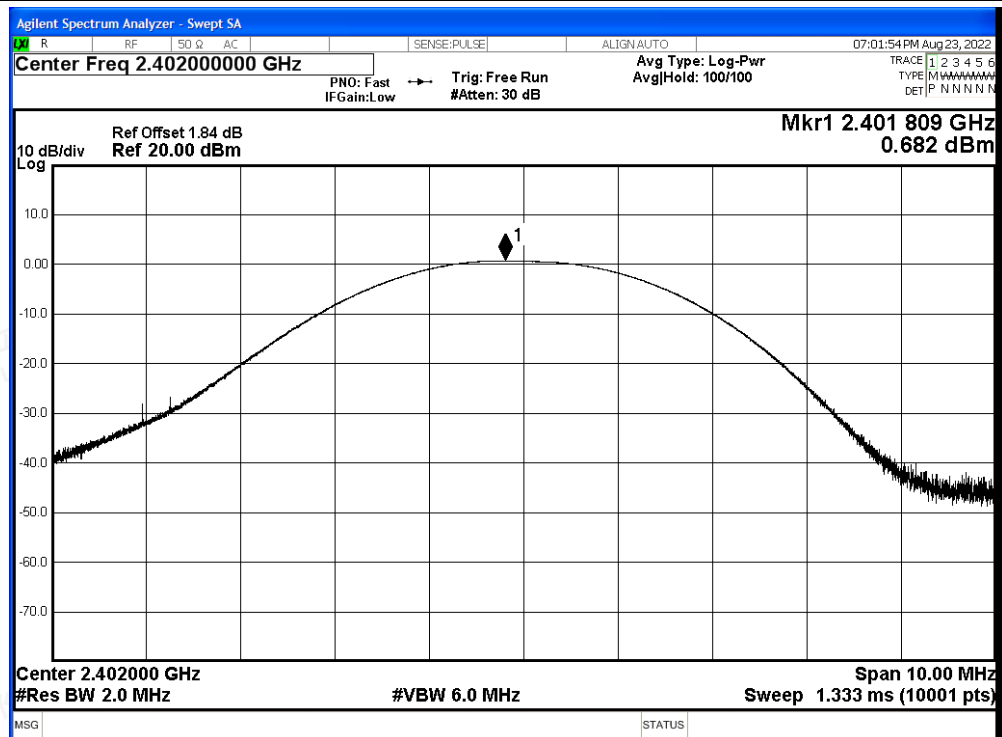
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.68	0	0.68	21	Pass
NVNT	1-DH5	2441	Ant1	-0.15	0	-0.15	21	Pass
NVNT	1-DH5	2480	Ant1	-1.98	0	-1.98	21	Pass
NVNT	2-DH5	2402	Ant1	1.45	0	1.45	21	Pass
NVNT	2-DH5	2441	Ant1	0.84	0	0.84	21	Pass
NVNT	2-DH5	2480	Ant1	-0.35	0	-0.35	21	Pass



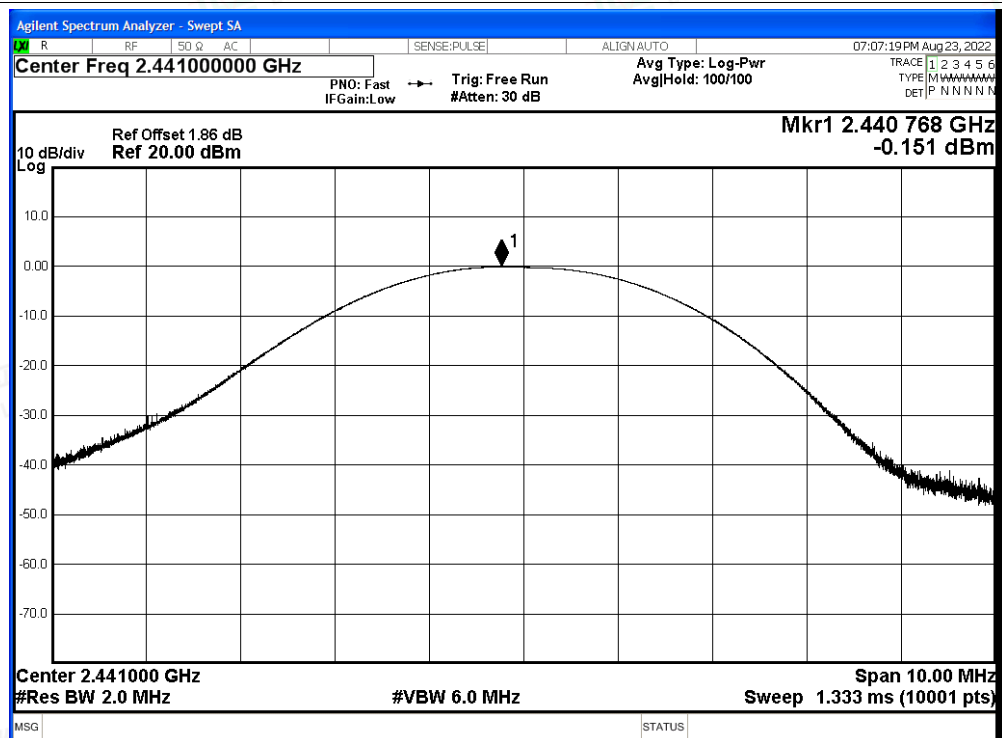


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

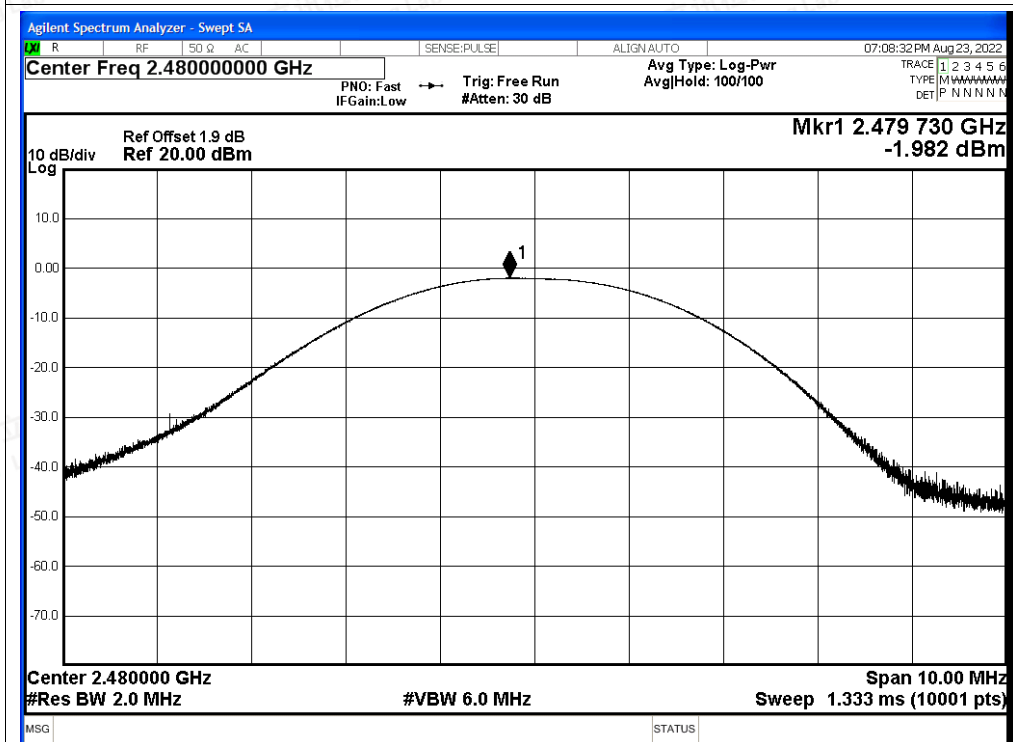


Power NVNT 1-DH5 2441MHz Ant1

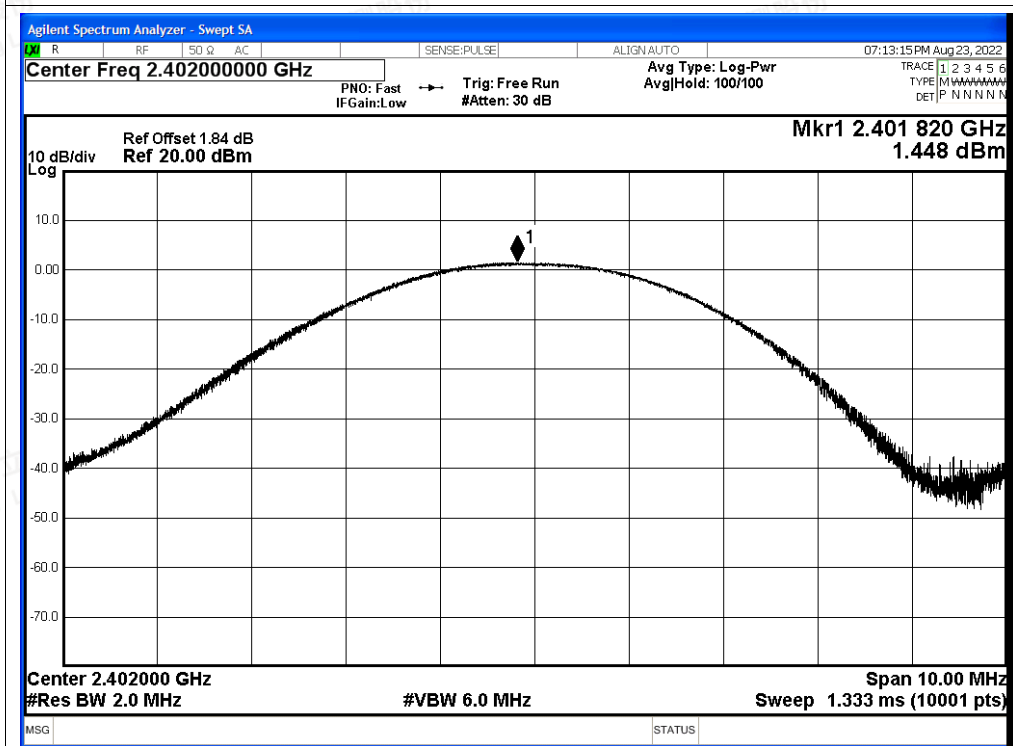




Power NVNT 1-DH5 2480MHz Ant1

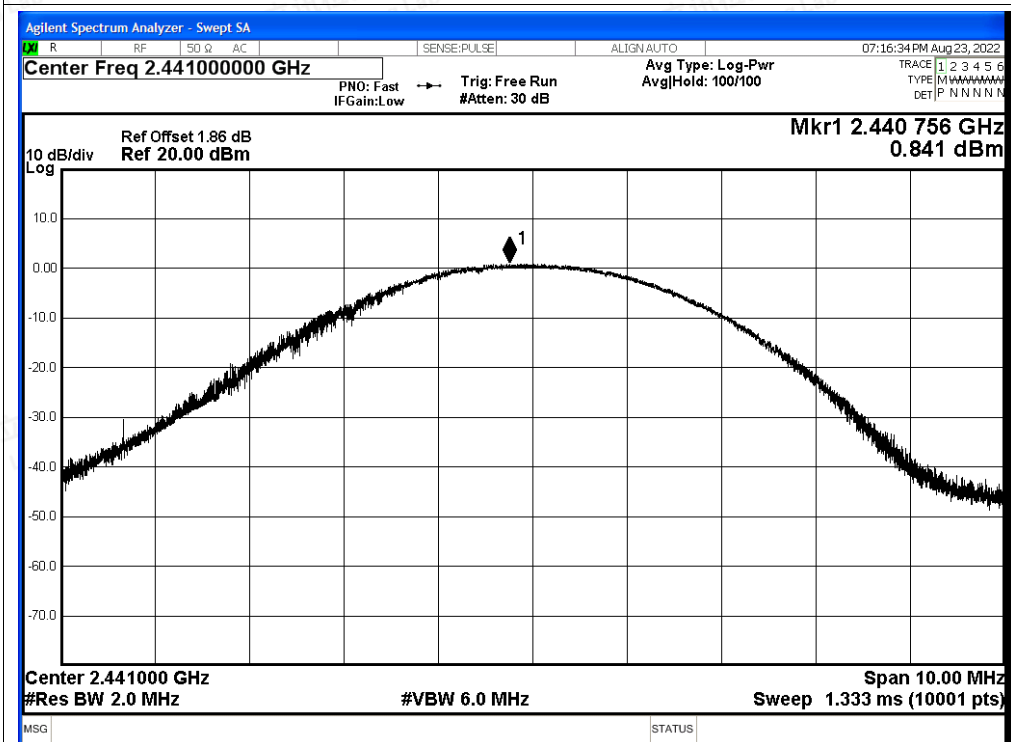


Power NVNT 2-DH5 2402MHz Ant1

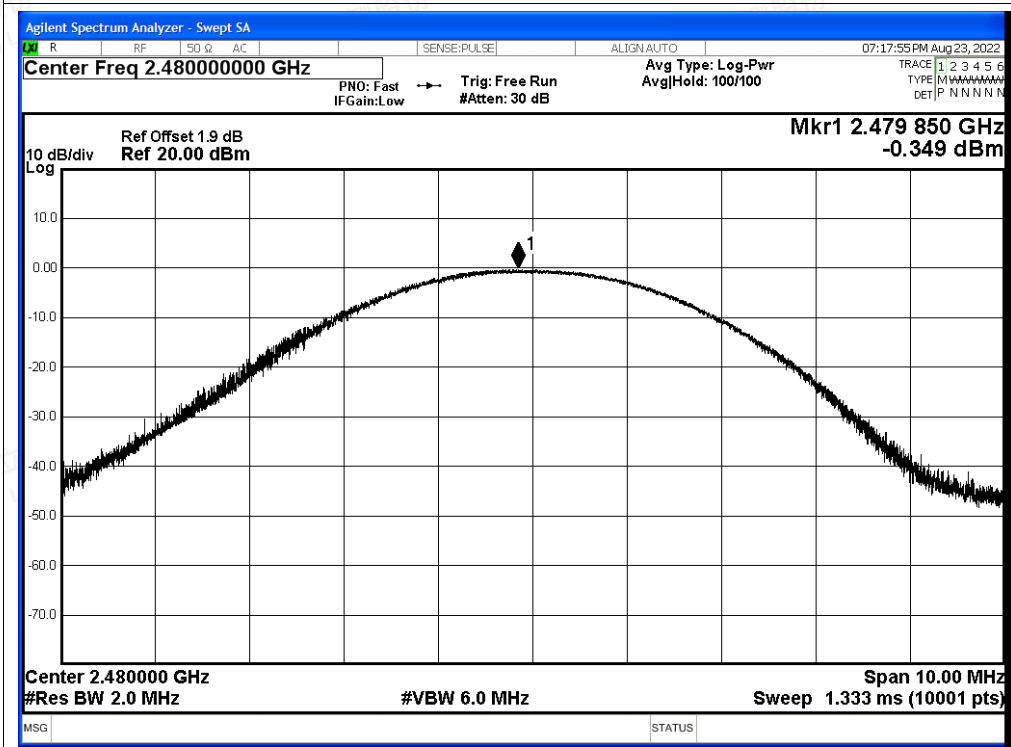




Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1





A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.948	2402.922	0.974	0.025	Pass
NVNT	2-DH5	Ant1	2401.978	2402.976	0.998	0.025	Pass

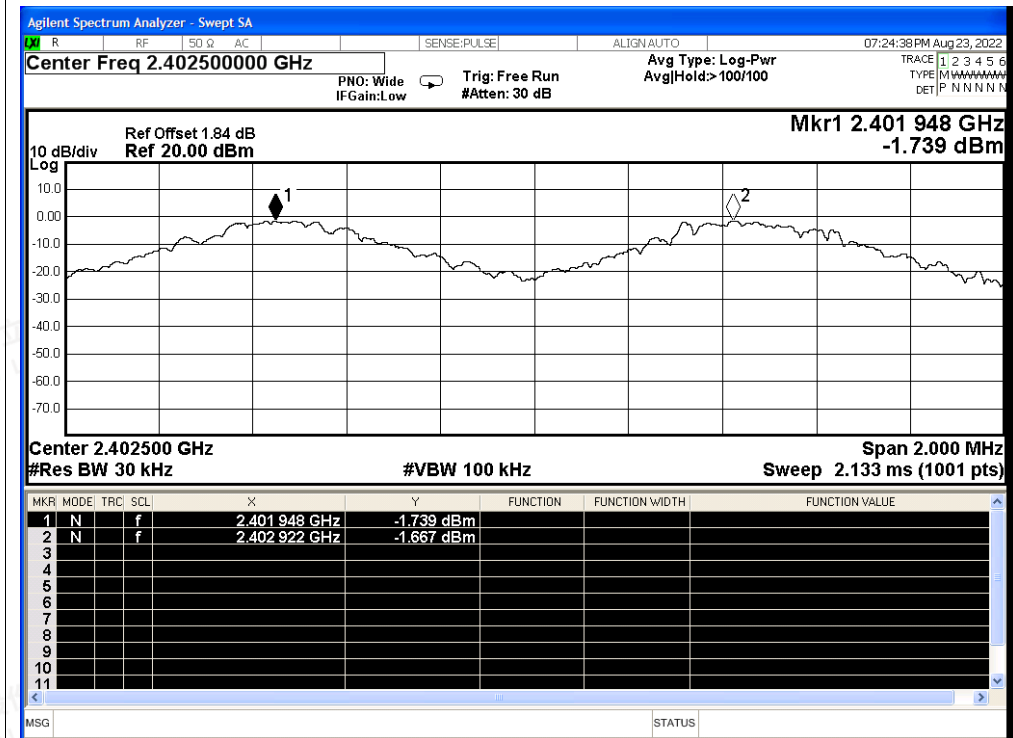




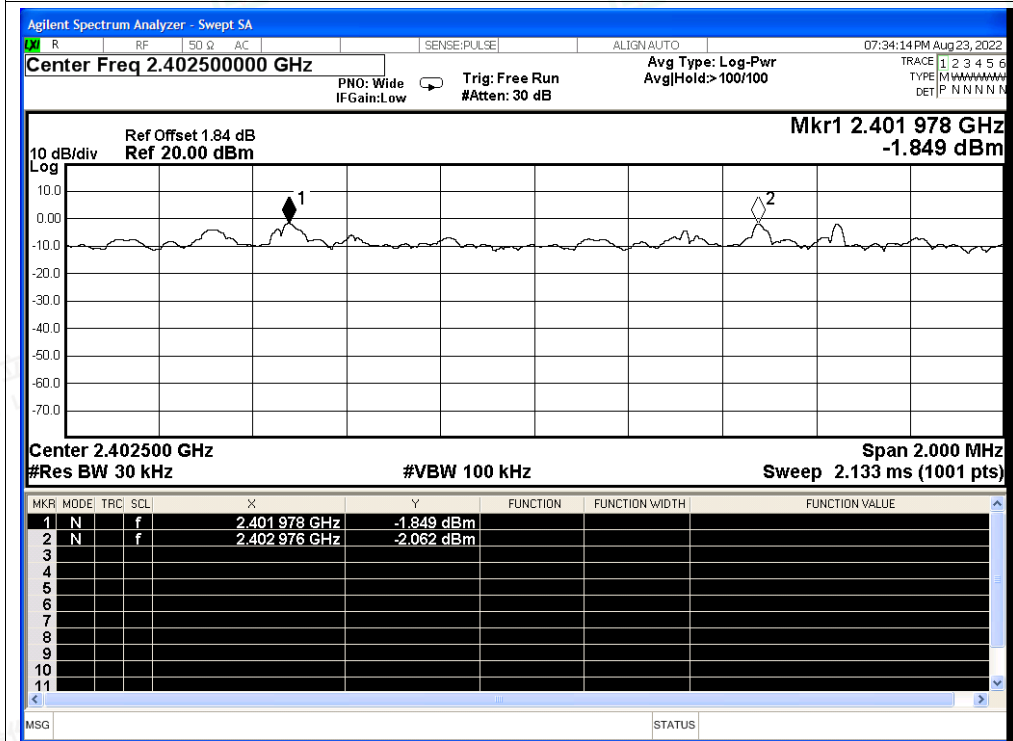
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Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



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A.4 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	2.88	230.4	80	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.886	184.704	64	31600	400	Pass

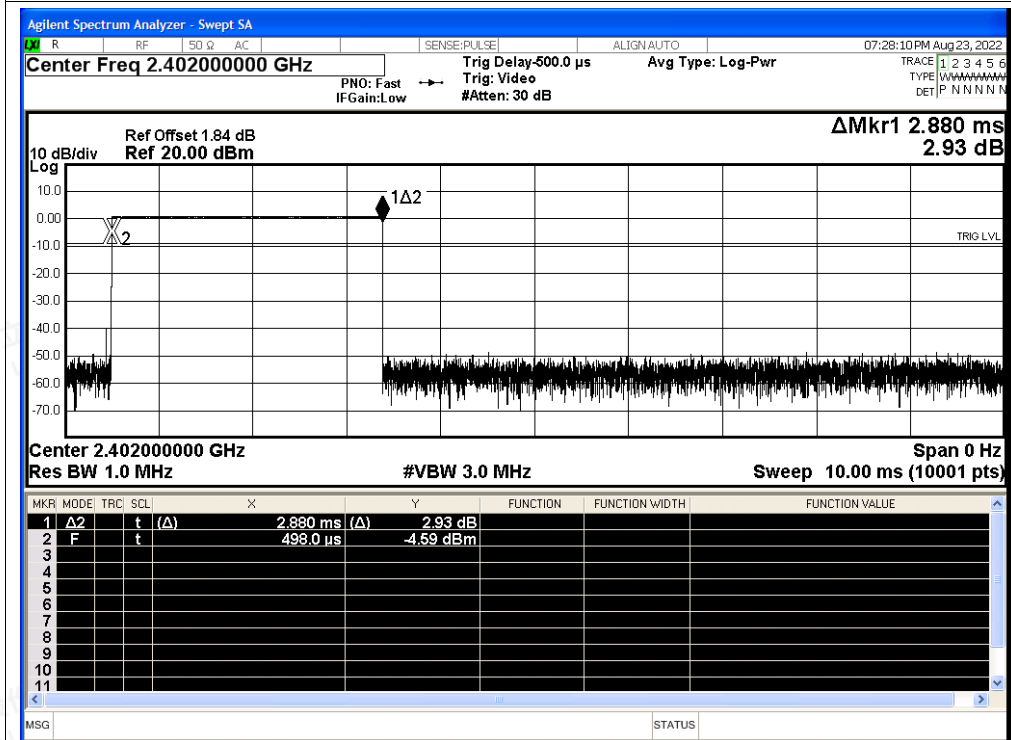




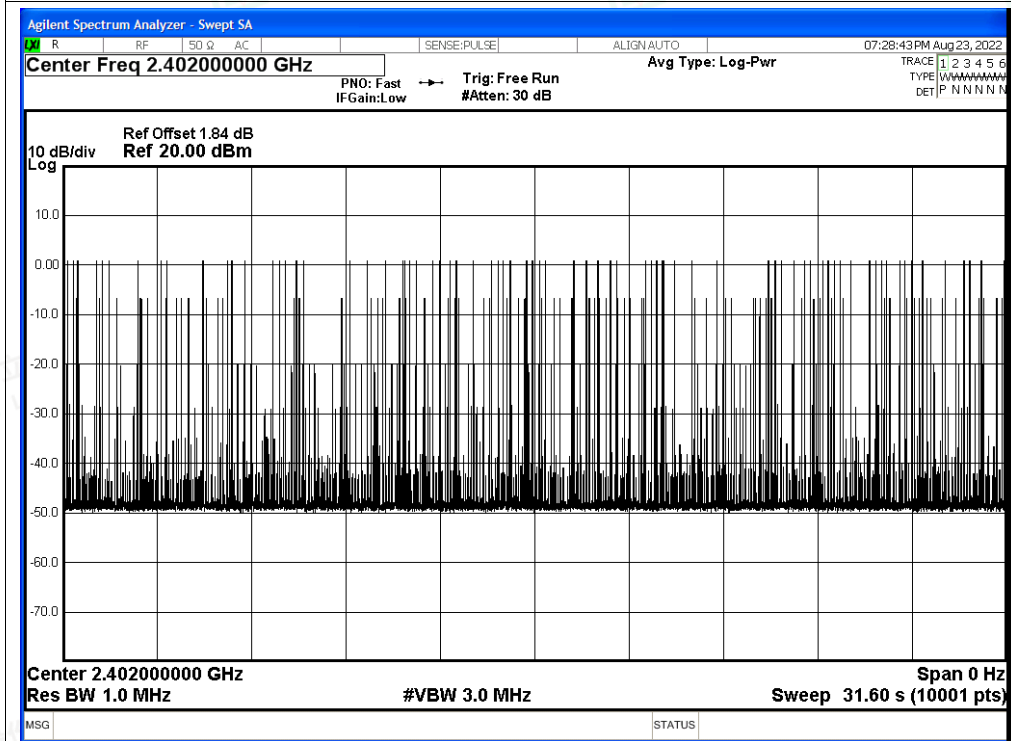
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Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



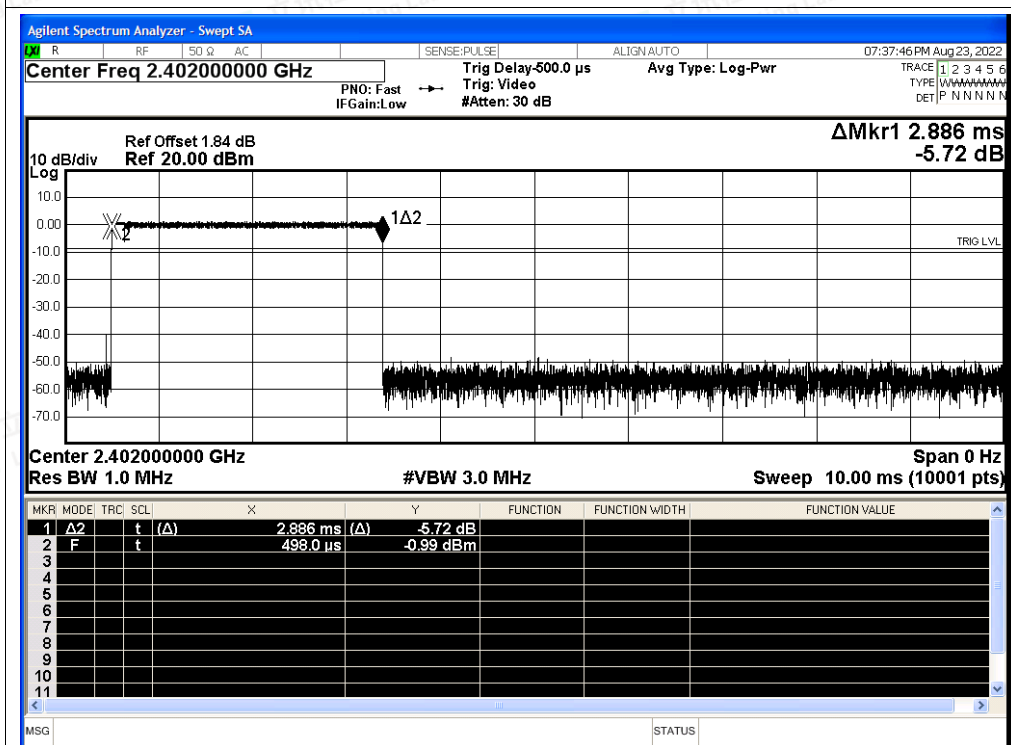
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



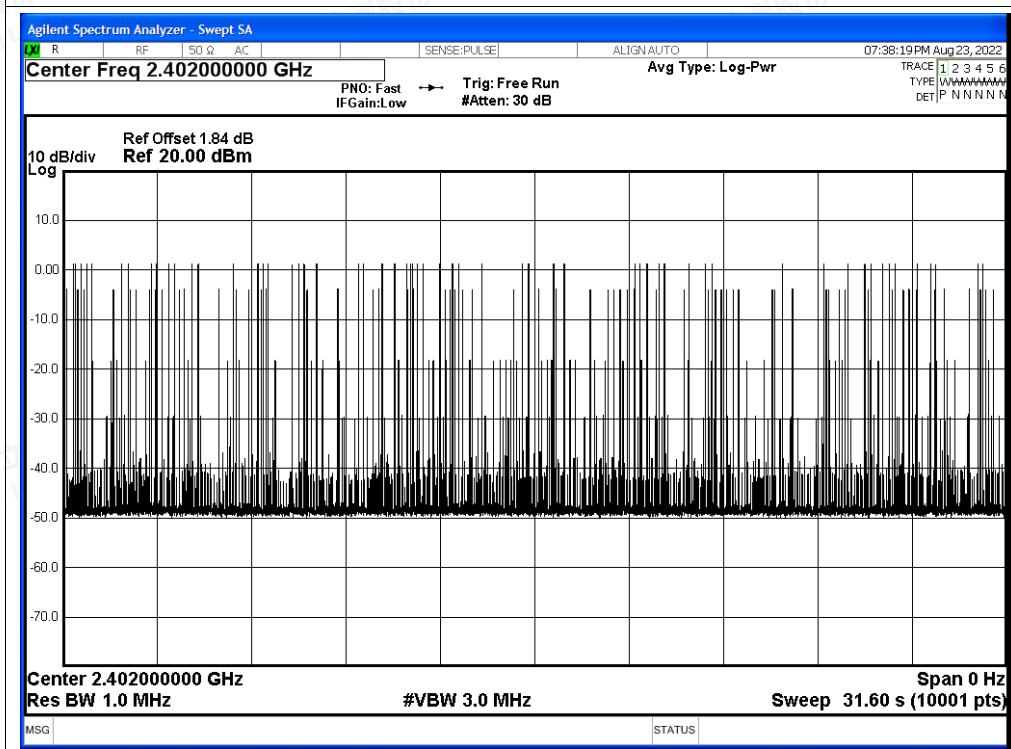


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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated





A.5 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

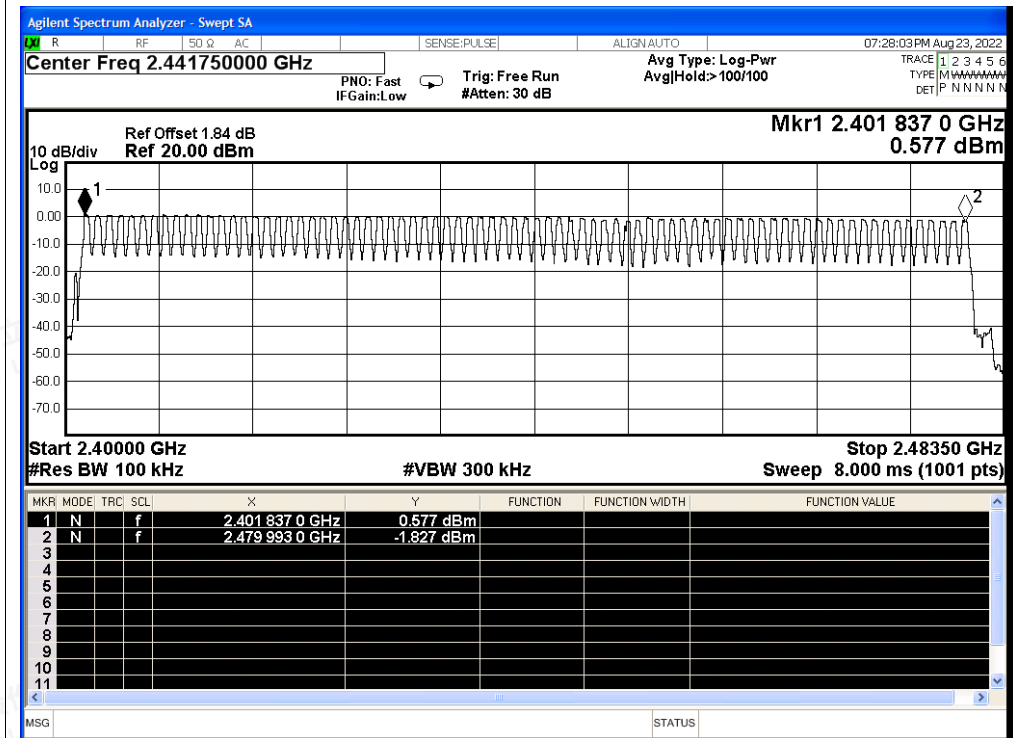




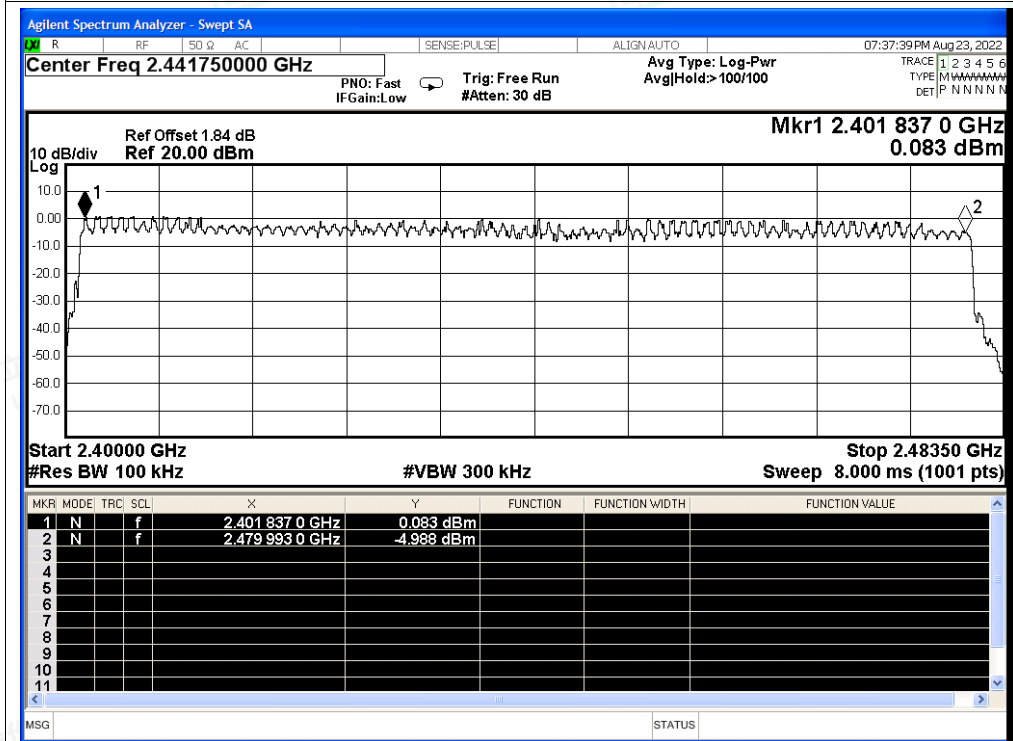
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Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1





A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-21.04	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-54.15	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-21.38	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-54.27	-20	Pass

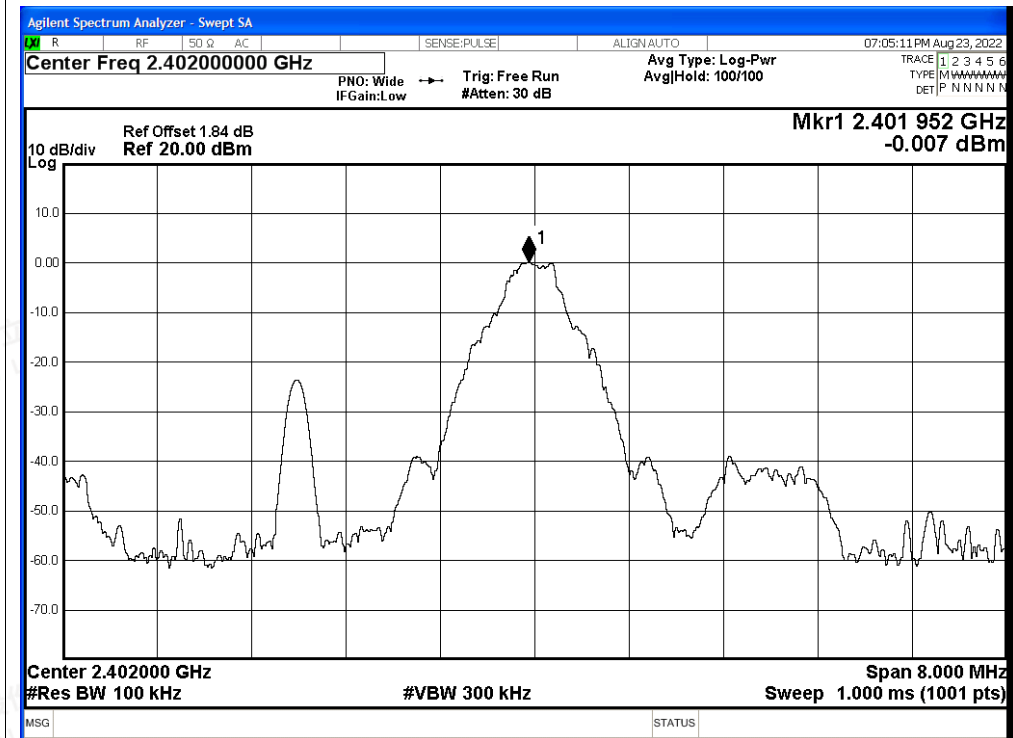




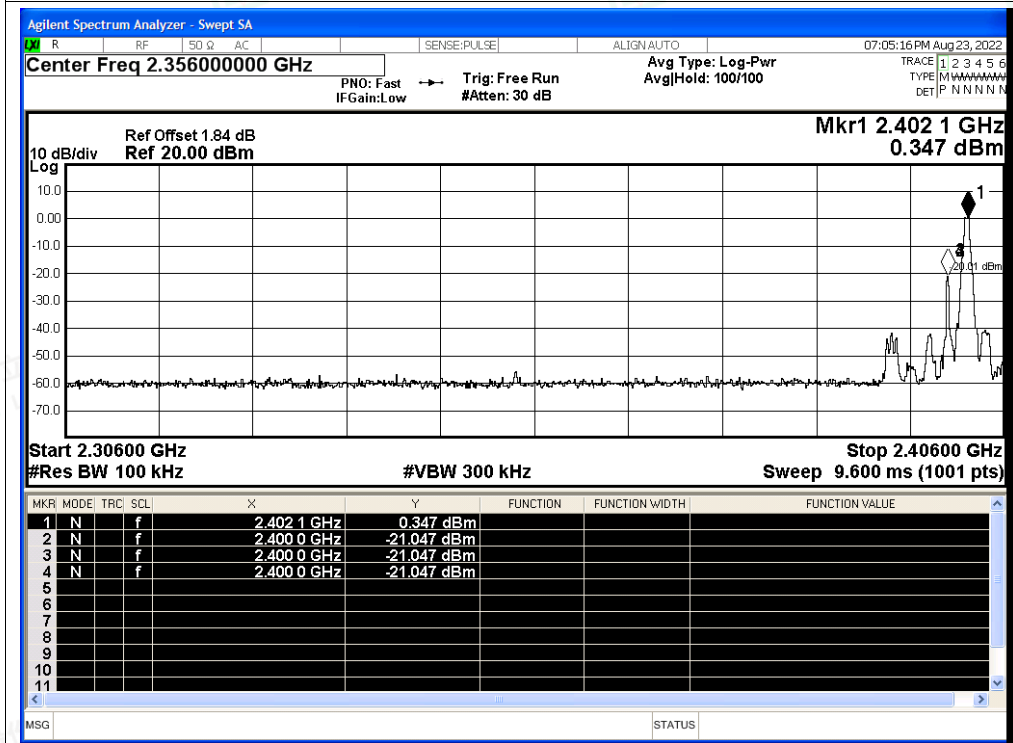
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Test Graphs

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



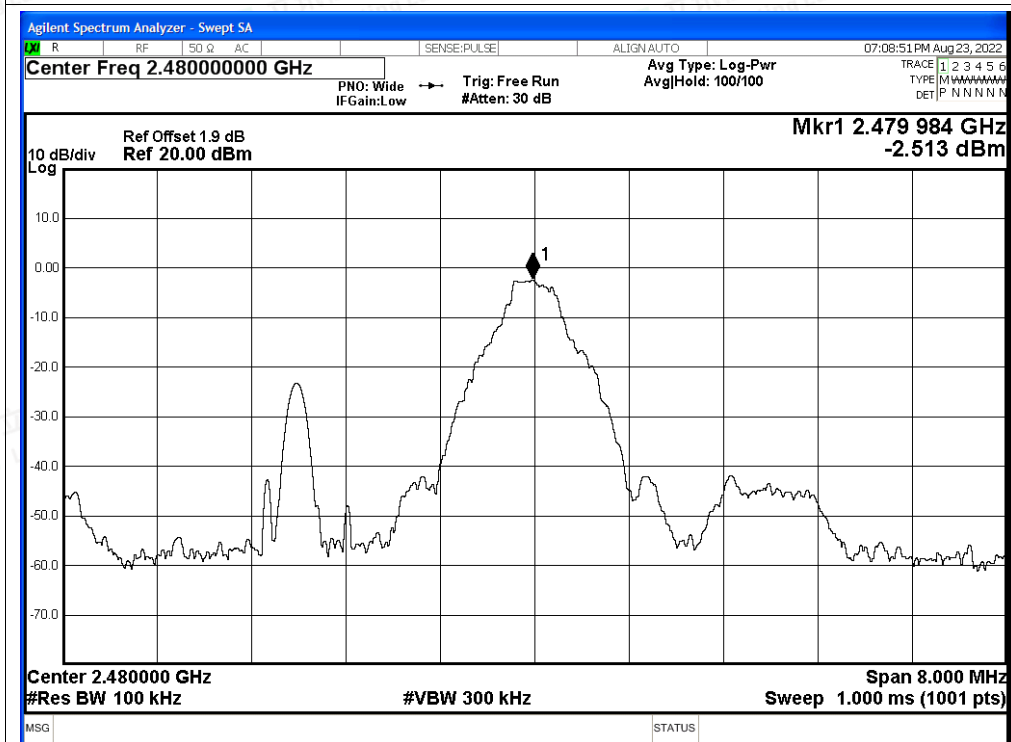
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



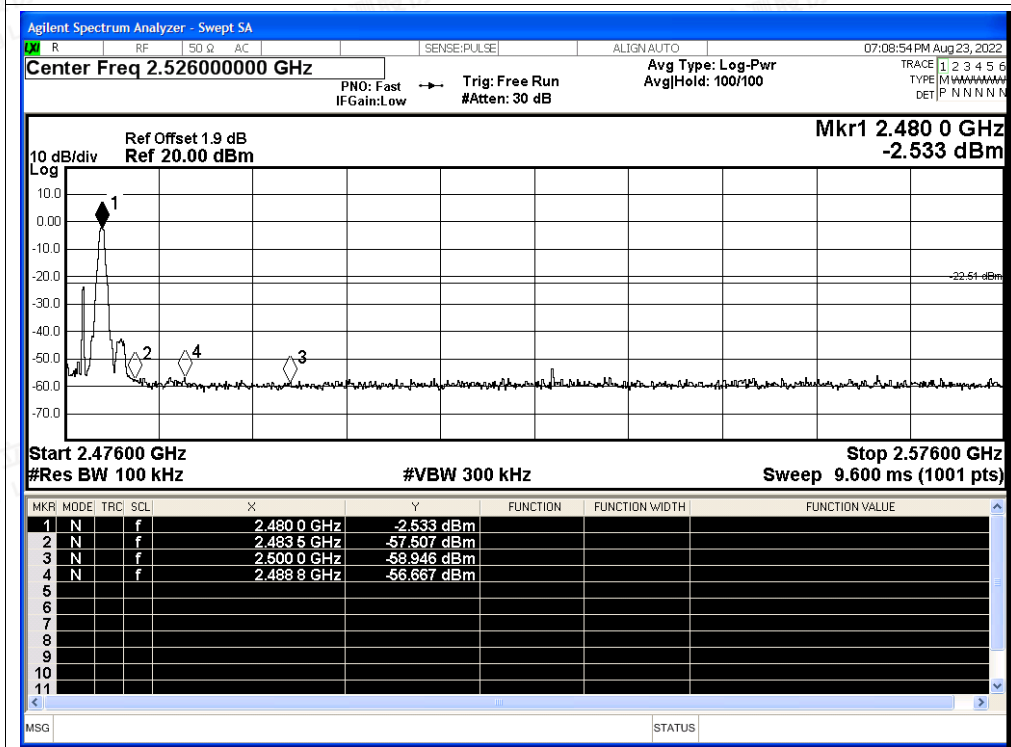


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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



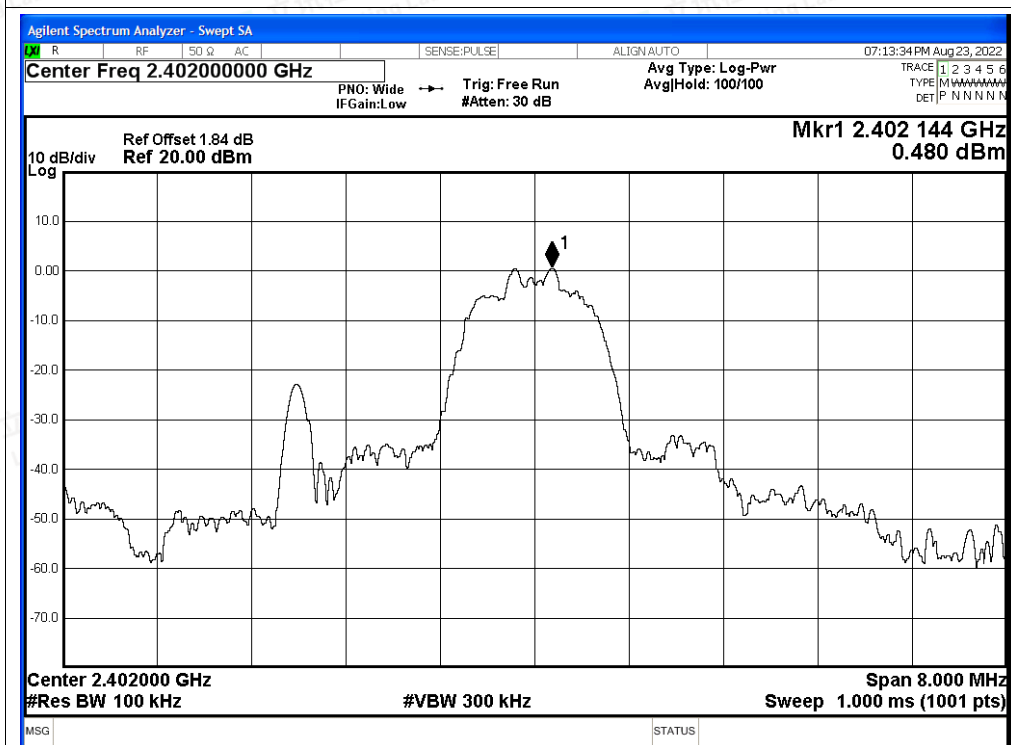
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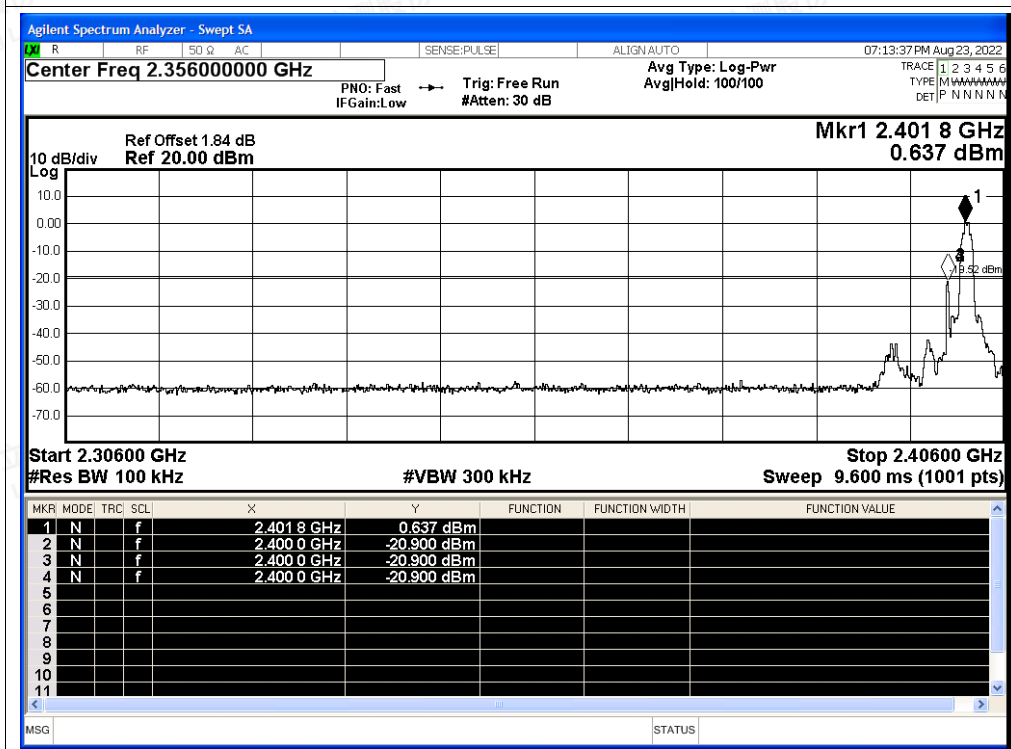


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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



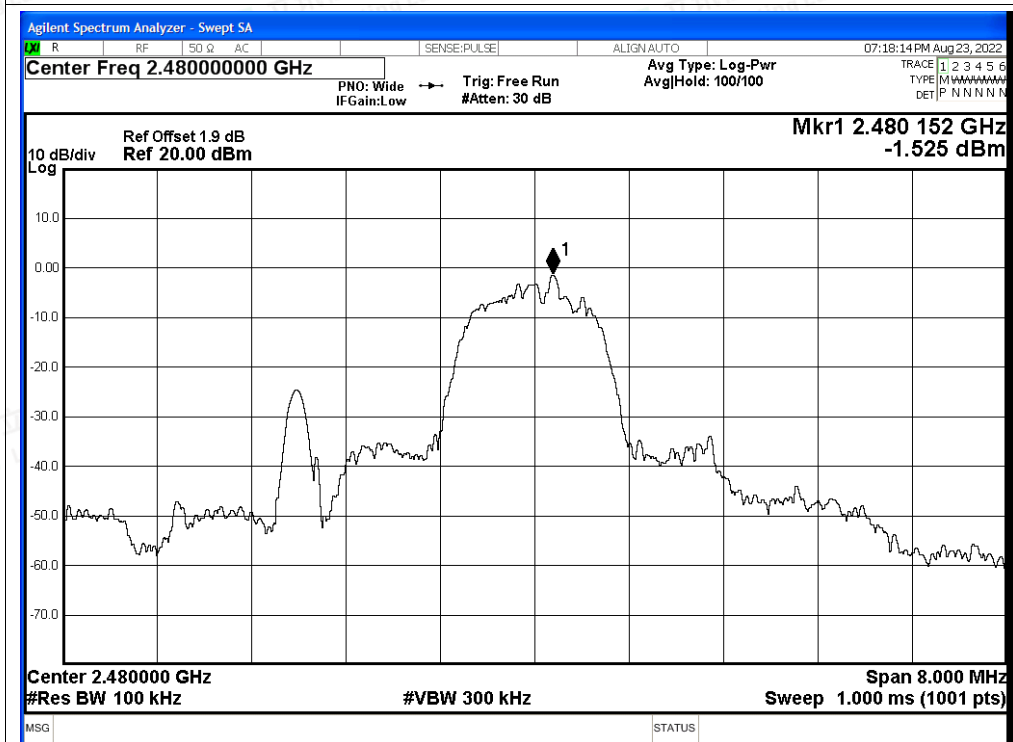
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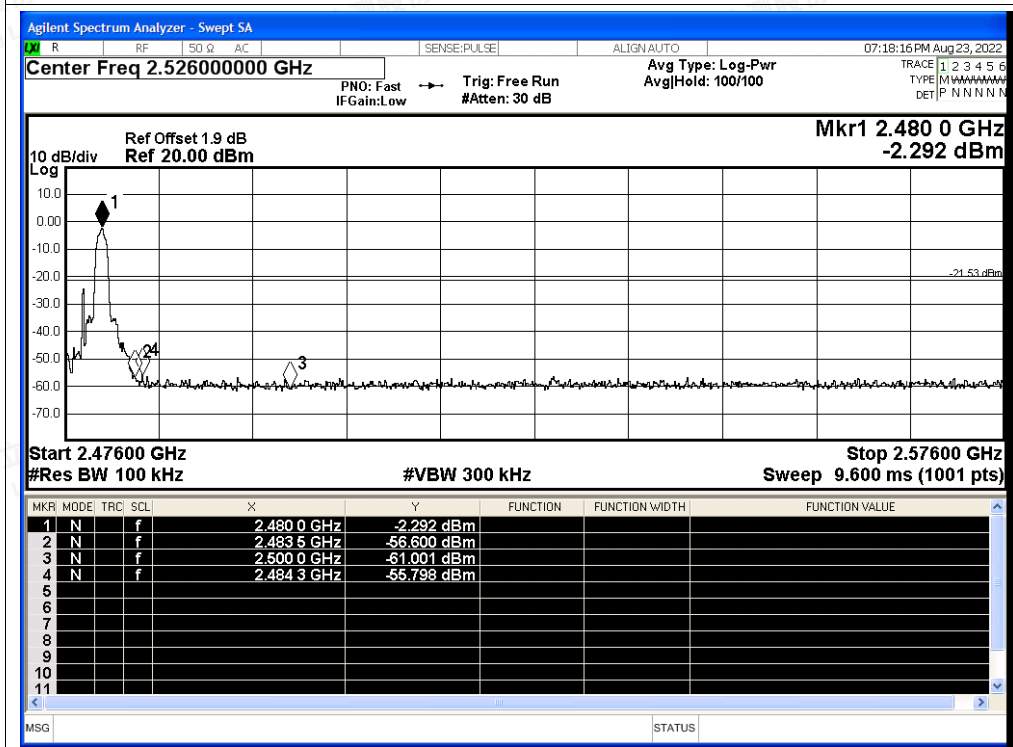


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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-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	-55.55	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-53.03	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.6	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.33	-20	Pass

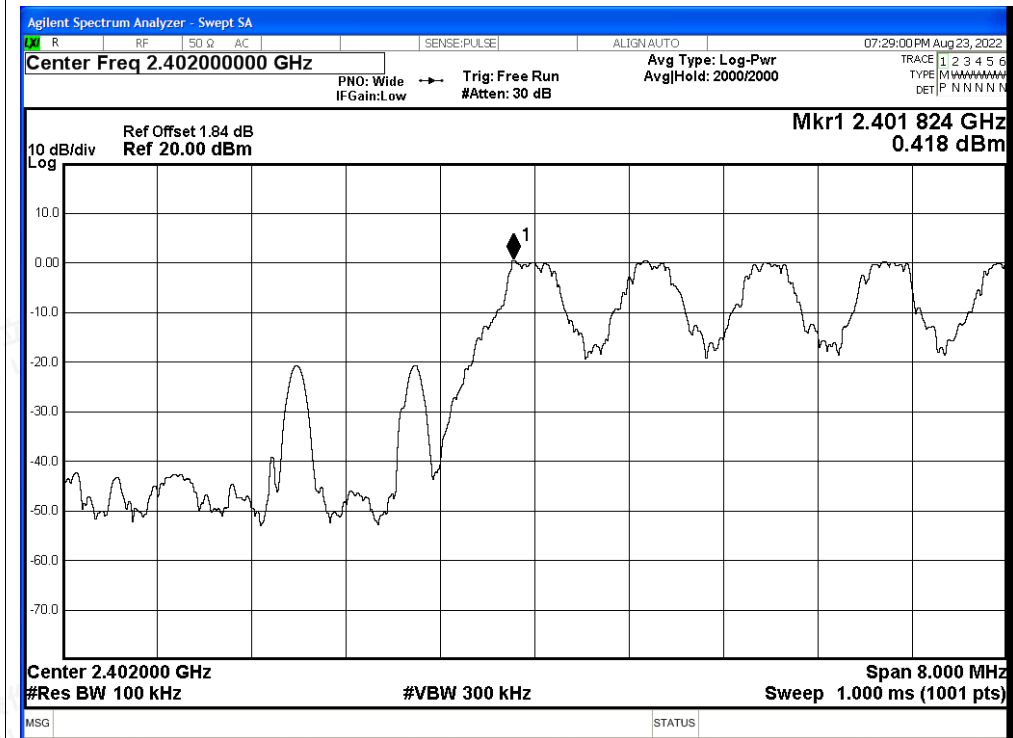




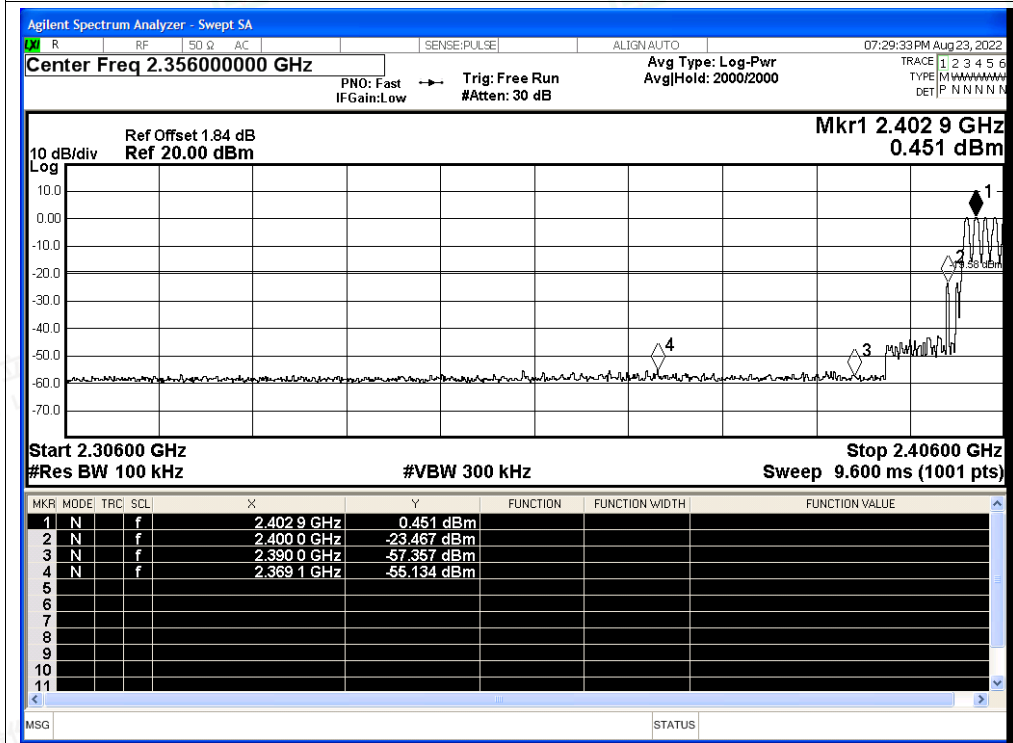
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Test Graphs

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



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



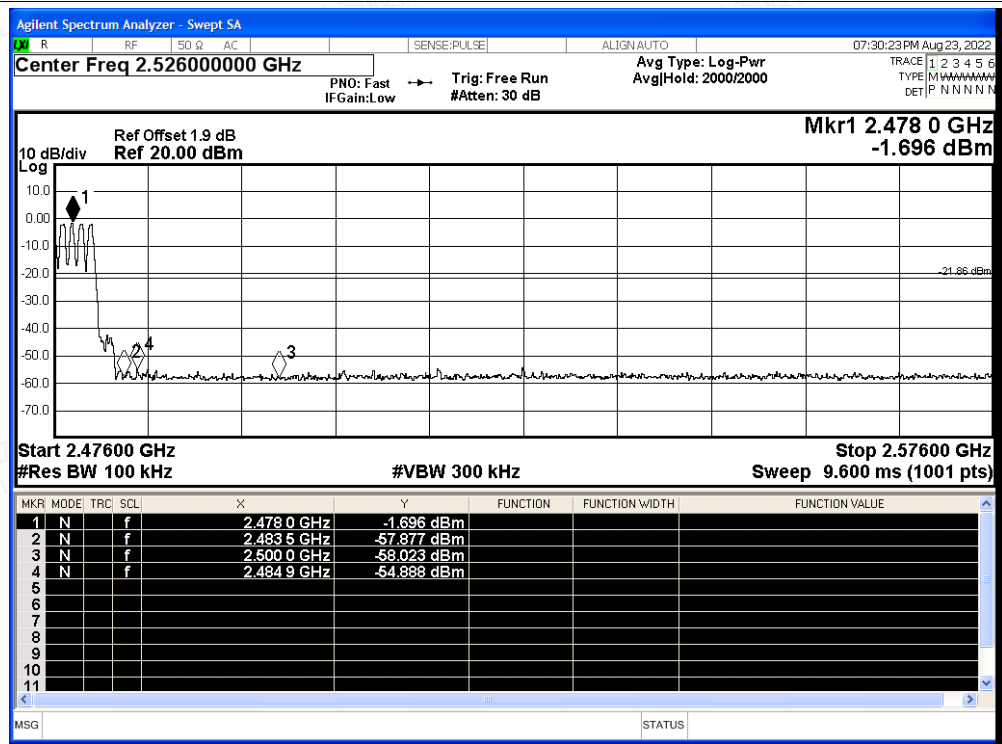


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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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



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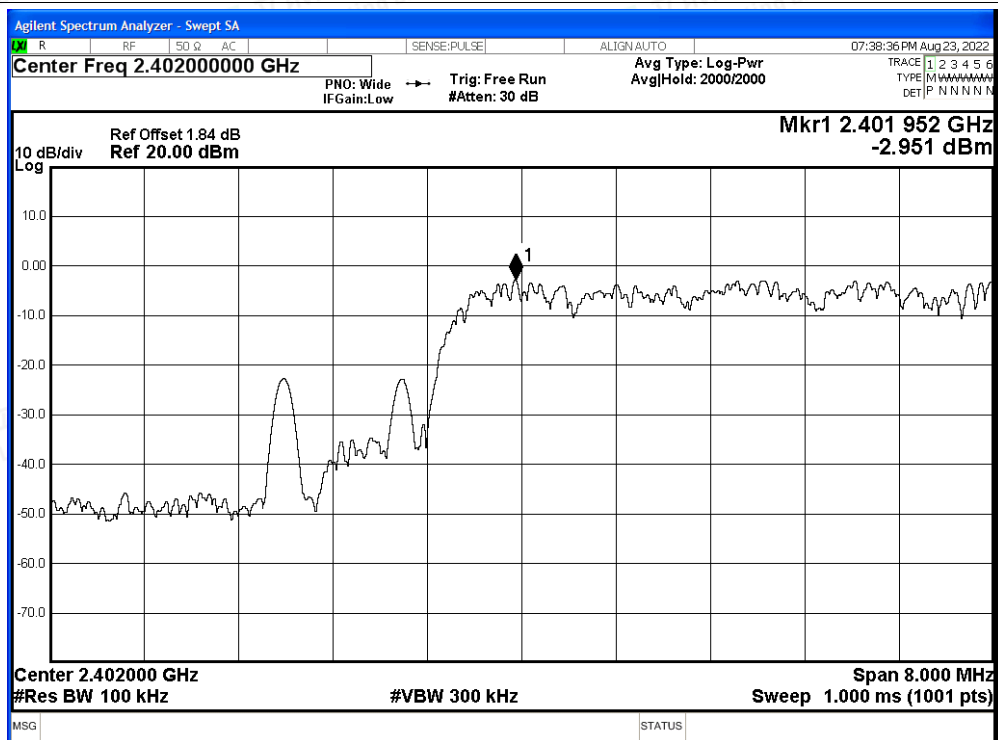
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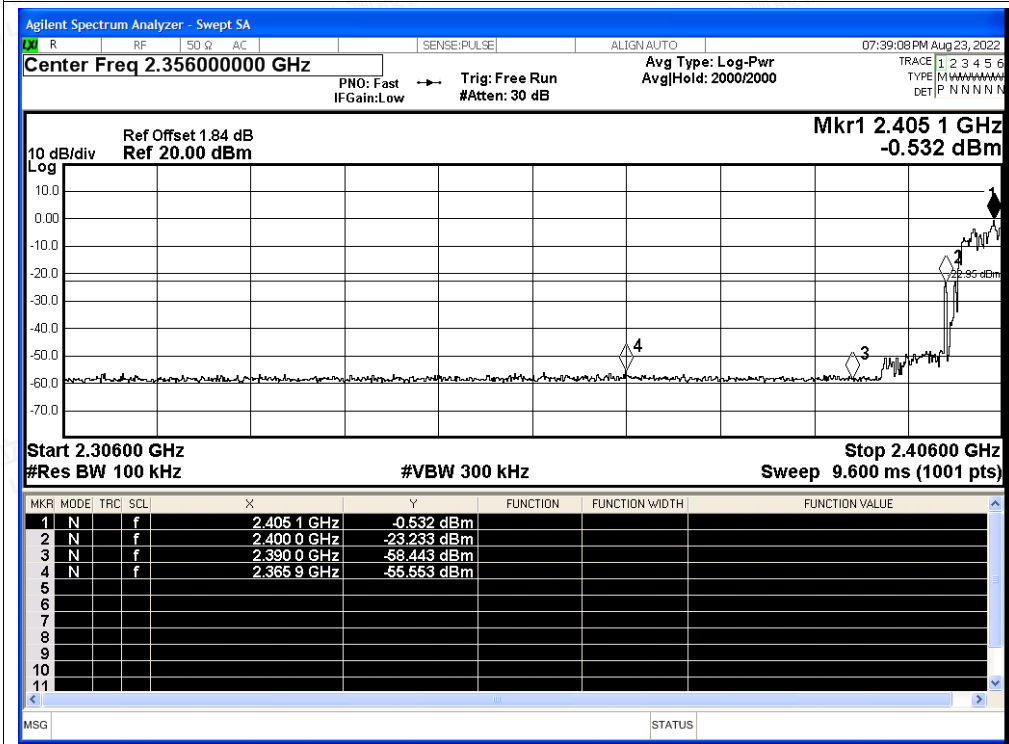


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Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



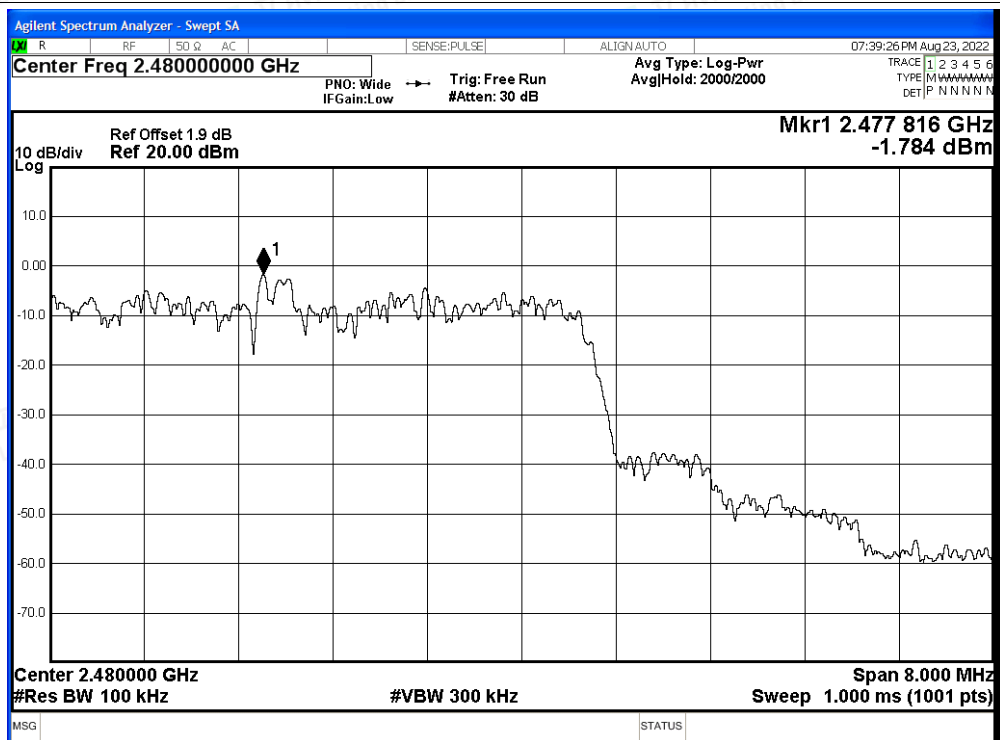
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



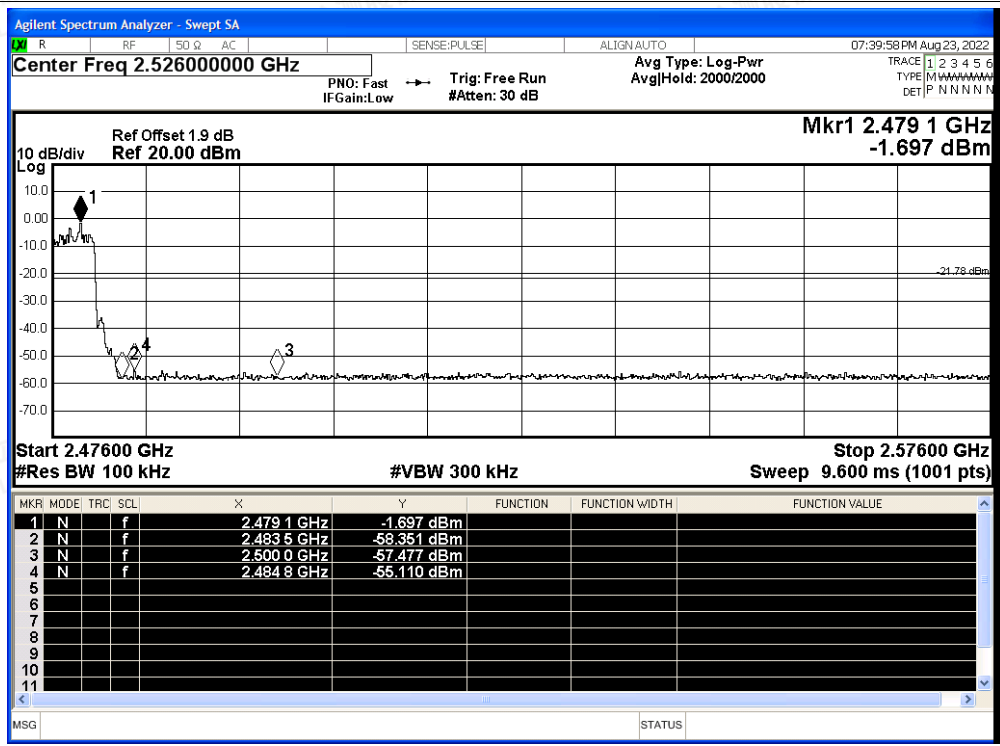


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Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-38	-20	Pass
NVNT	1-DH5	2441	Ant1	-38.15	-20	Pass
NVNT	1-DH5	2480	Ant1	-37.99	-20	Pass
NVNT	2-DH5	2402	Ant1	-42.36	-20	Pass
NVNT	2-DH5	2441	Ant1	-40.07	-20	Pass
NVNT	2-DH5	2480	Ant1	-39.45	-20	Pass

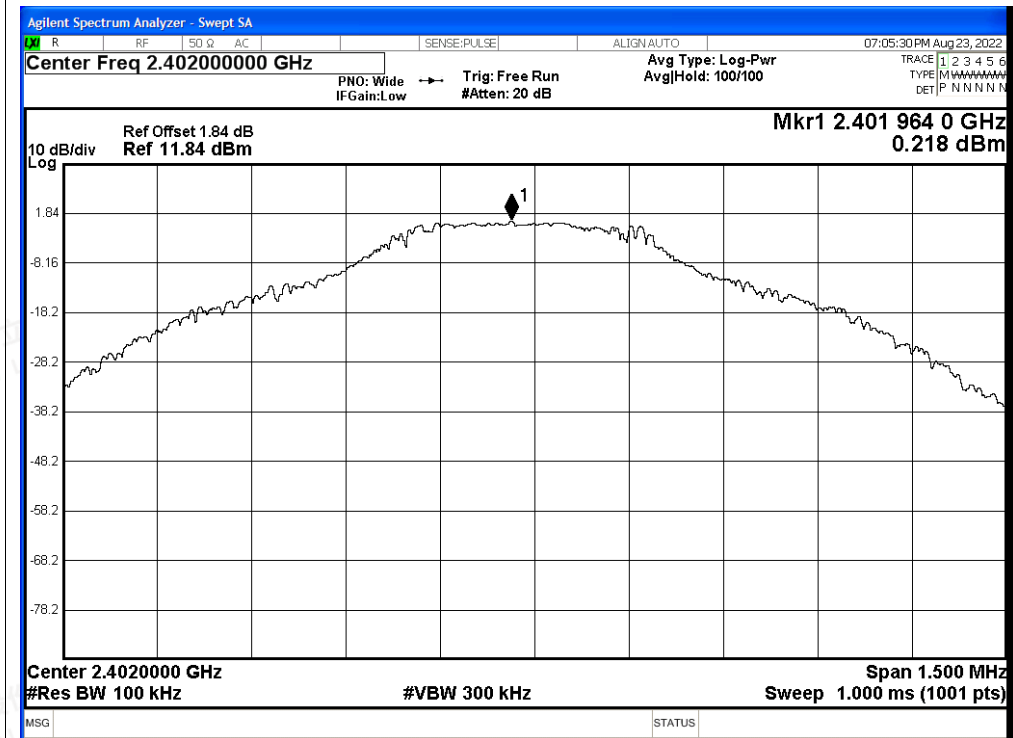




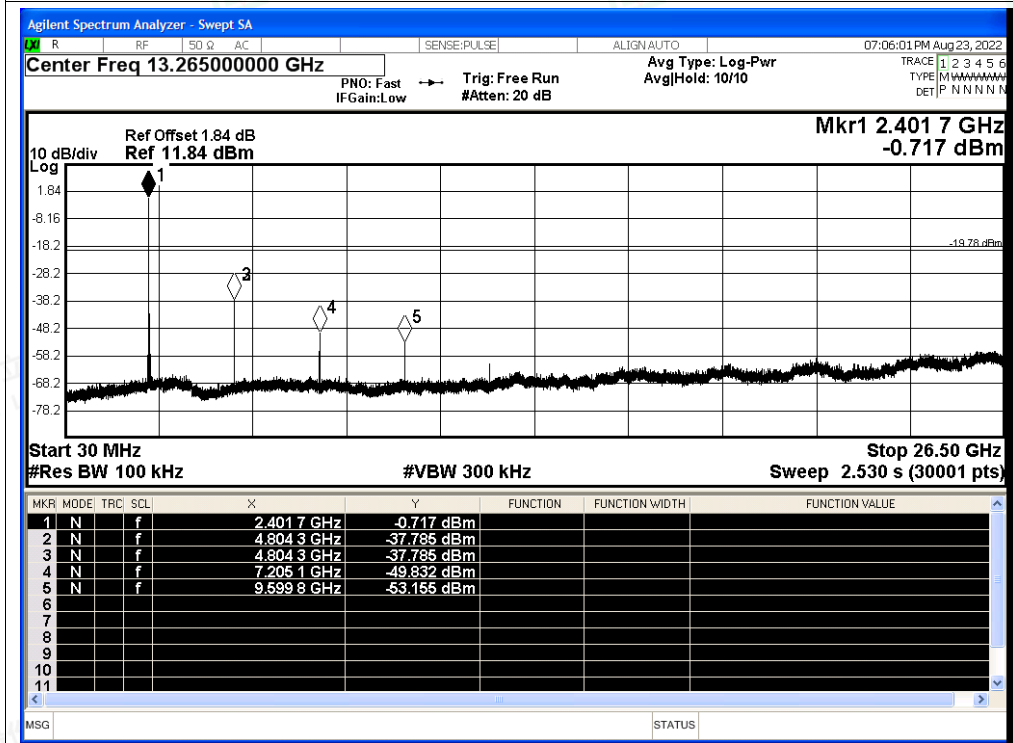
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Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



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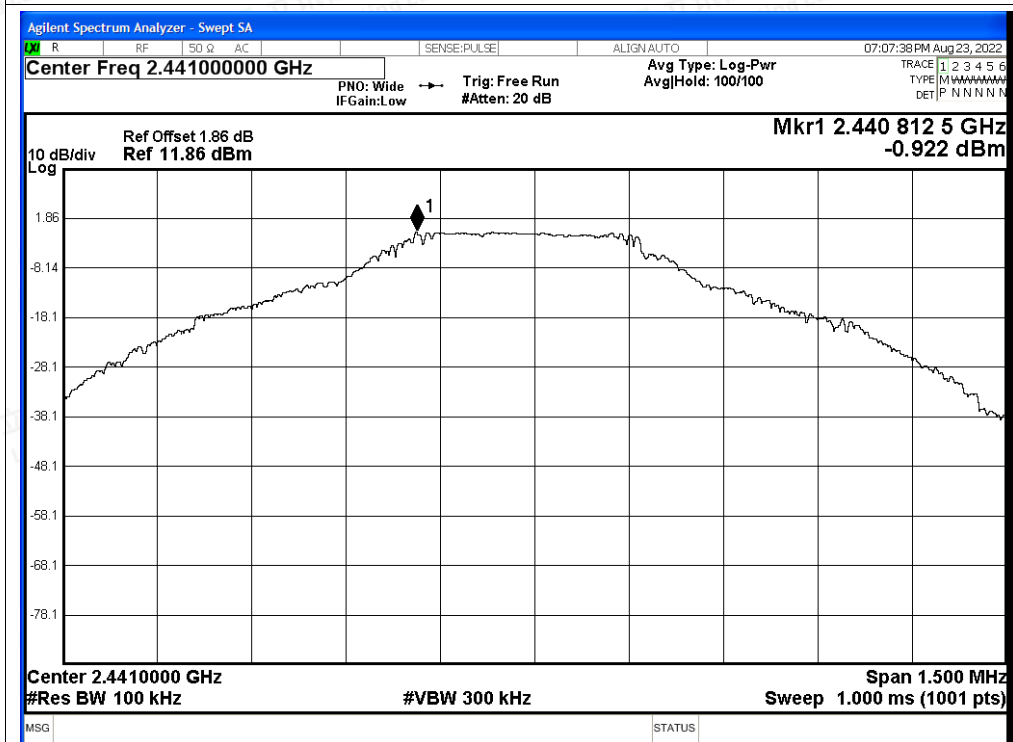
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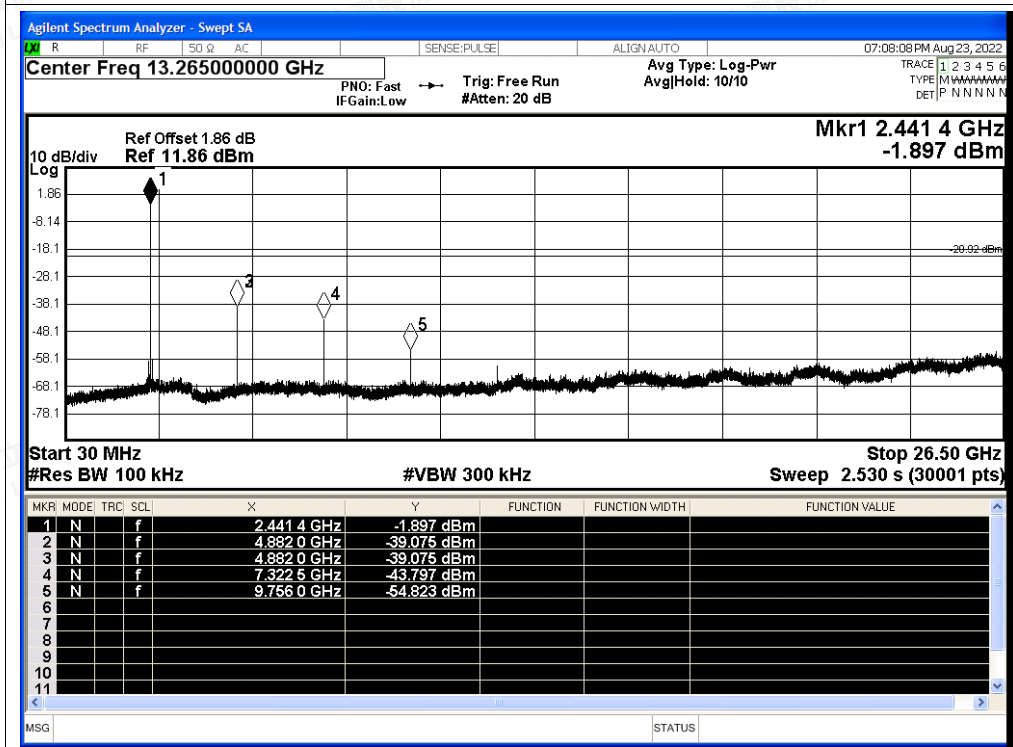


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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



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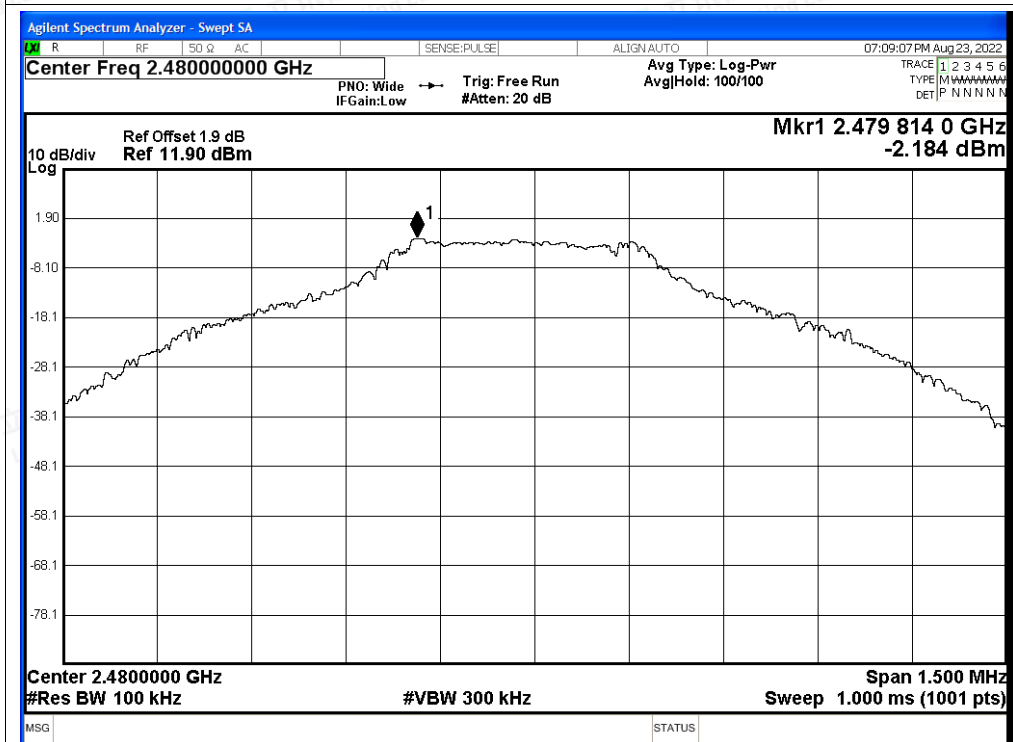
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Scan code to check authenticity

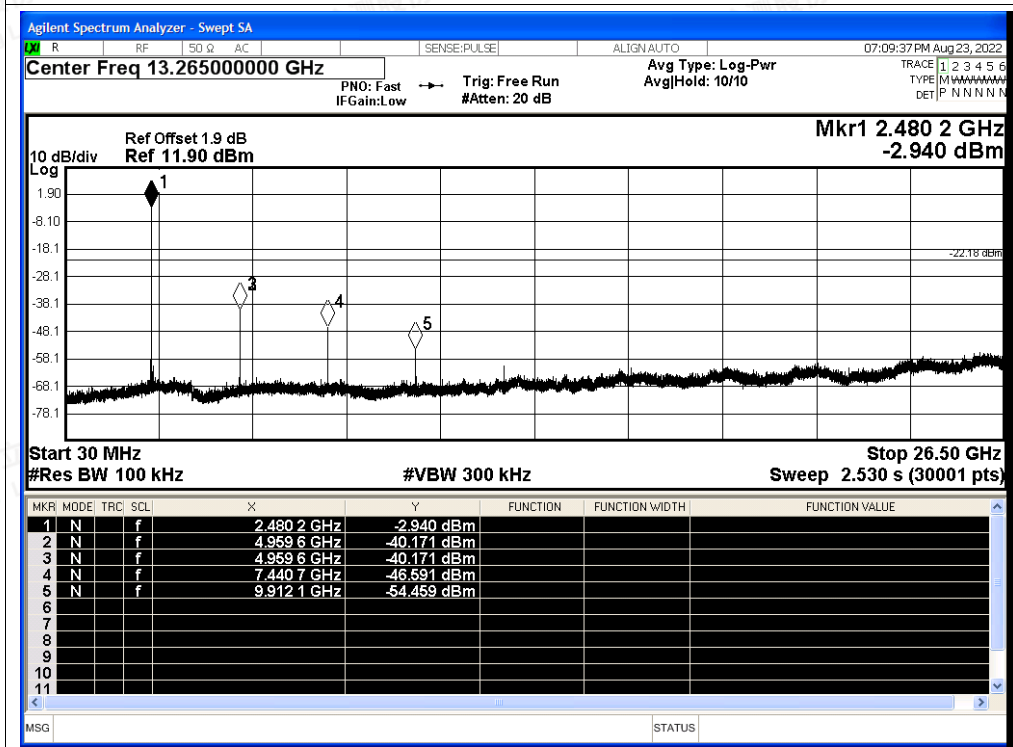


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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



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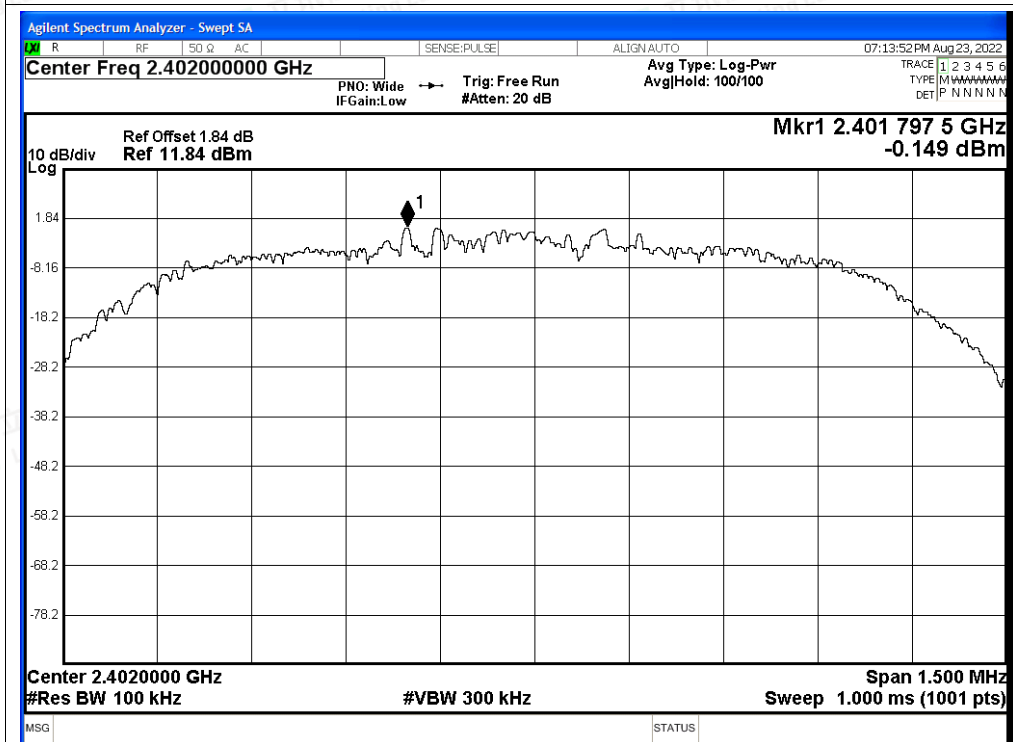
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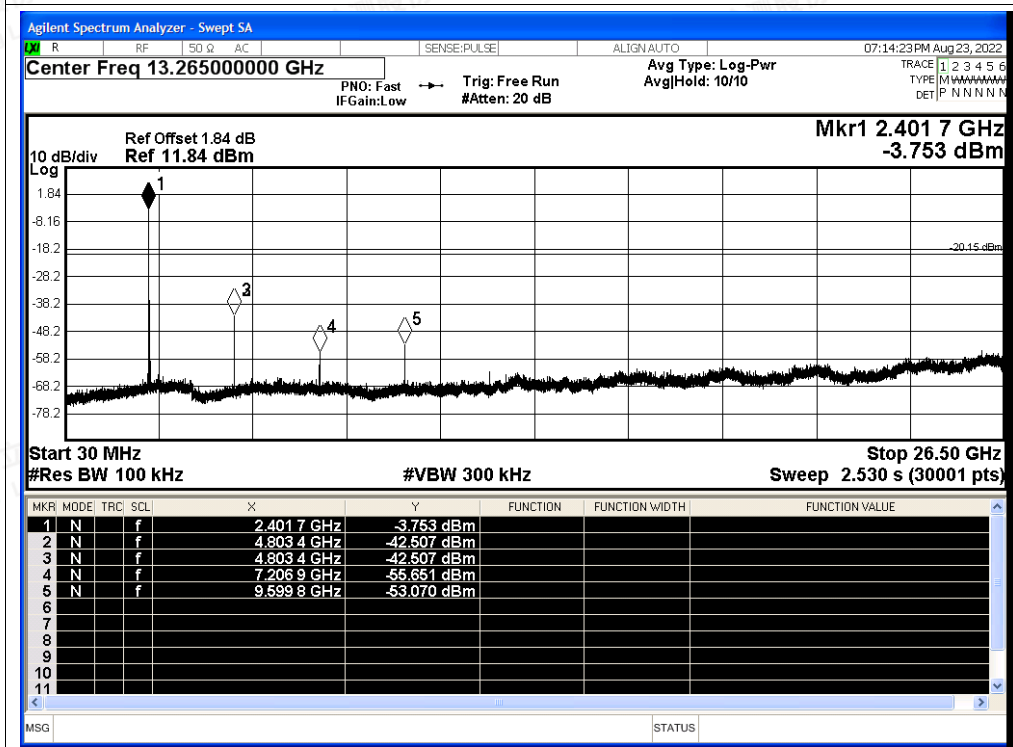


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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



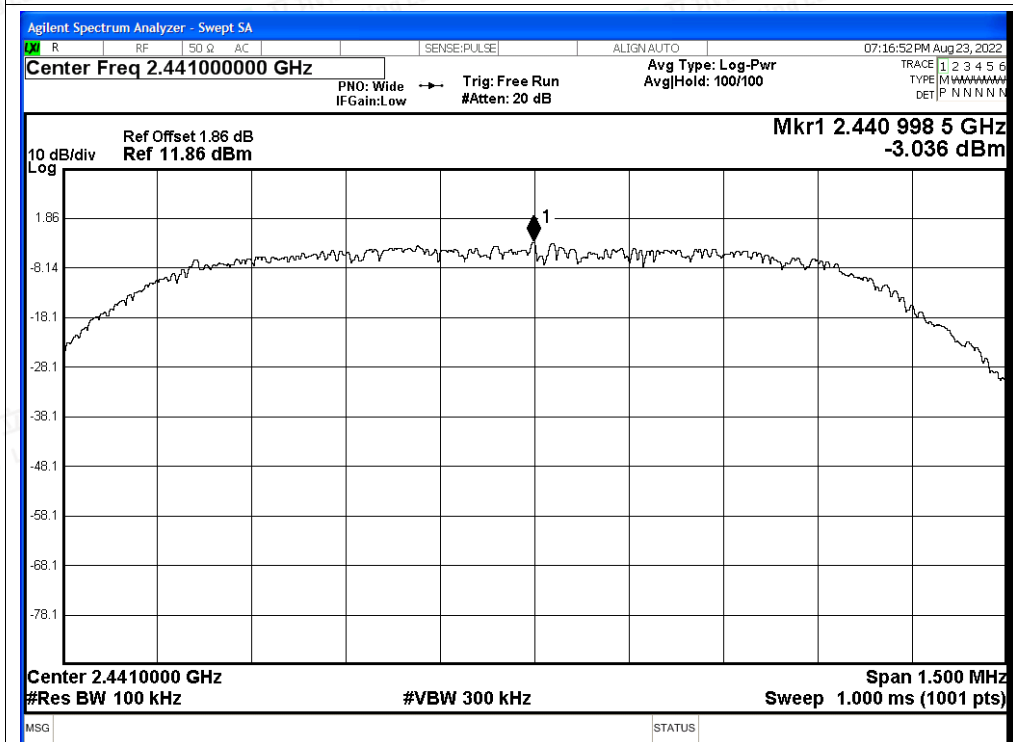
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



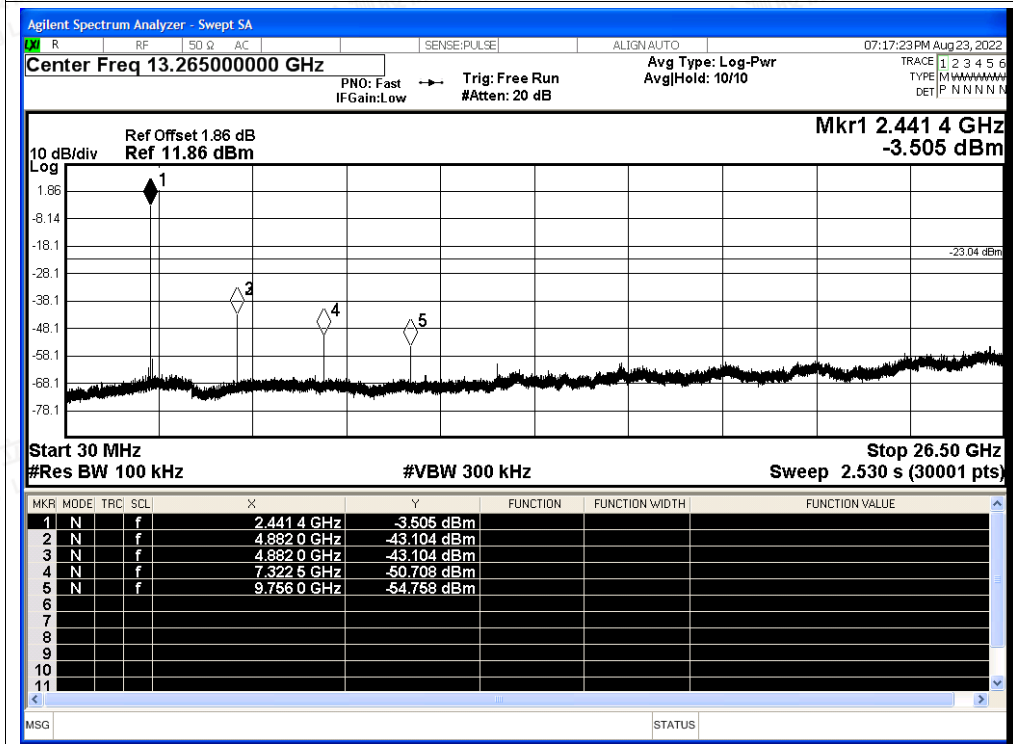


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Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



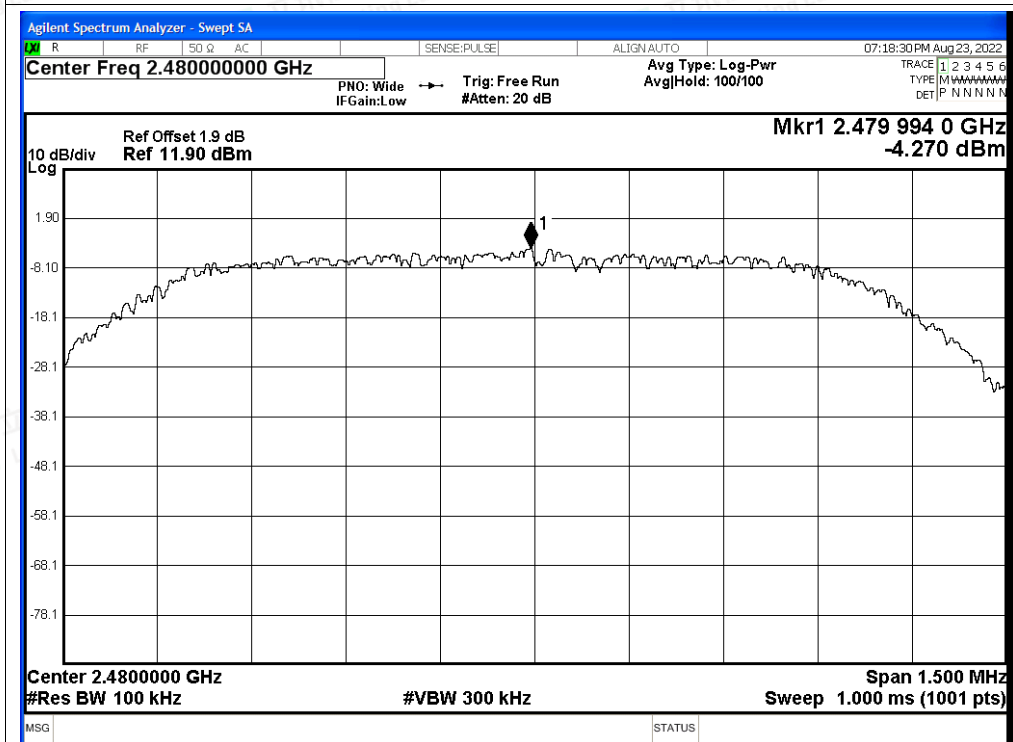
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



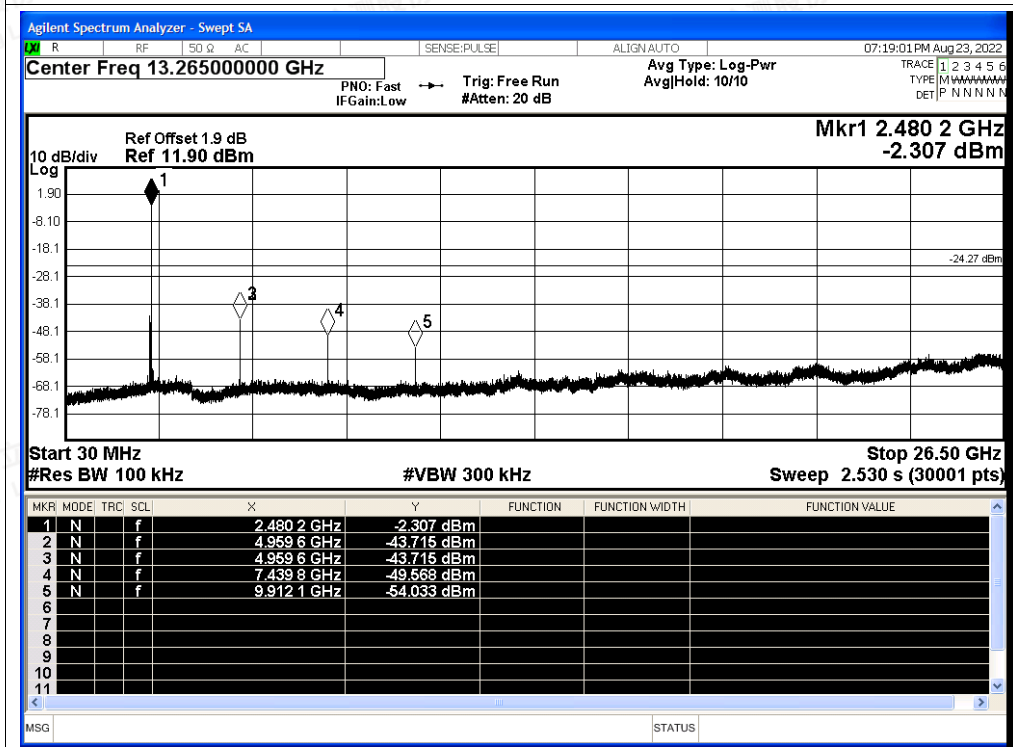


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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission





A.8 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	-51.82	2	45.44	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.68	2	36.58	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2330.352	-47.37	2	49.89	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2354.064	-57.66	2	39.6	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.22	2	47.04	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.04	2	37.22	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-47.37	2	49.89	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-56.47	2	40.79	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.68	-46.56	2	50.7	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.512	-56.47	2	40.79	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.69	2	46.57	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-60.07	2	37.19	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.35	2	45.91	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.7	2	36.56	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2388.912	-46.19	2	51.07	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2353.968	-58.74	2	38.52	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.79	2	46.47	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.21	2	37.05	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-45.43	2	51.83	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-55.1	2	42.16	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.536	-43.24	2	54.02	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-55.1	2	42.16	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.88	2	47.38	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-60	2	37.26	Average	54	Pass

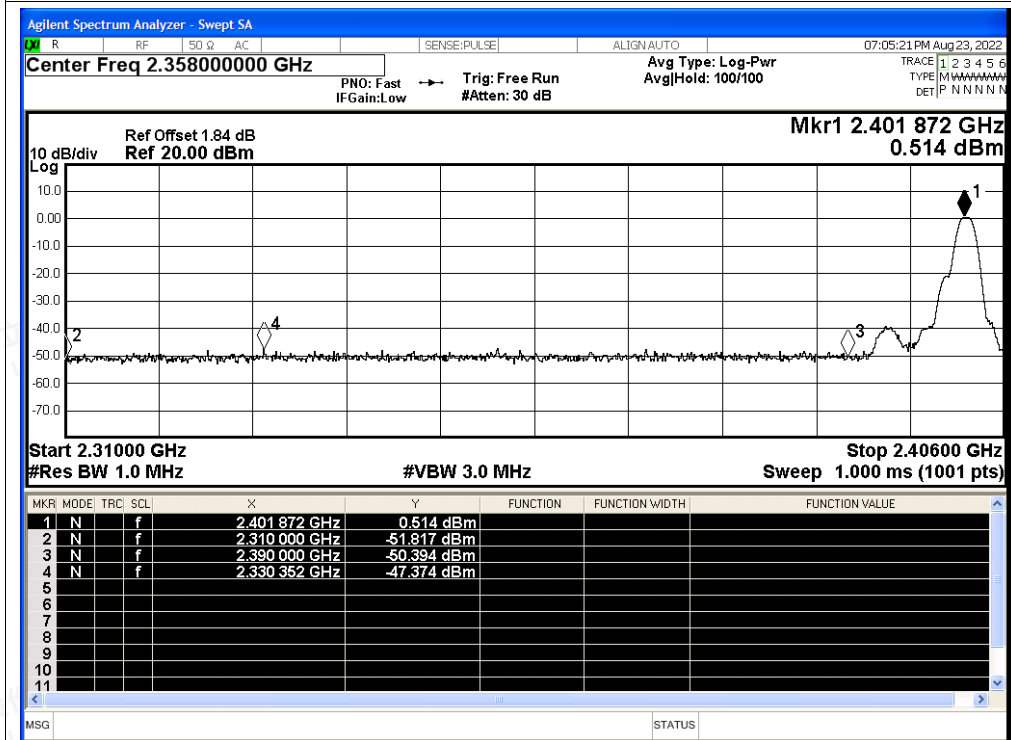




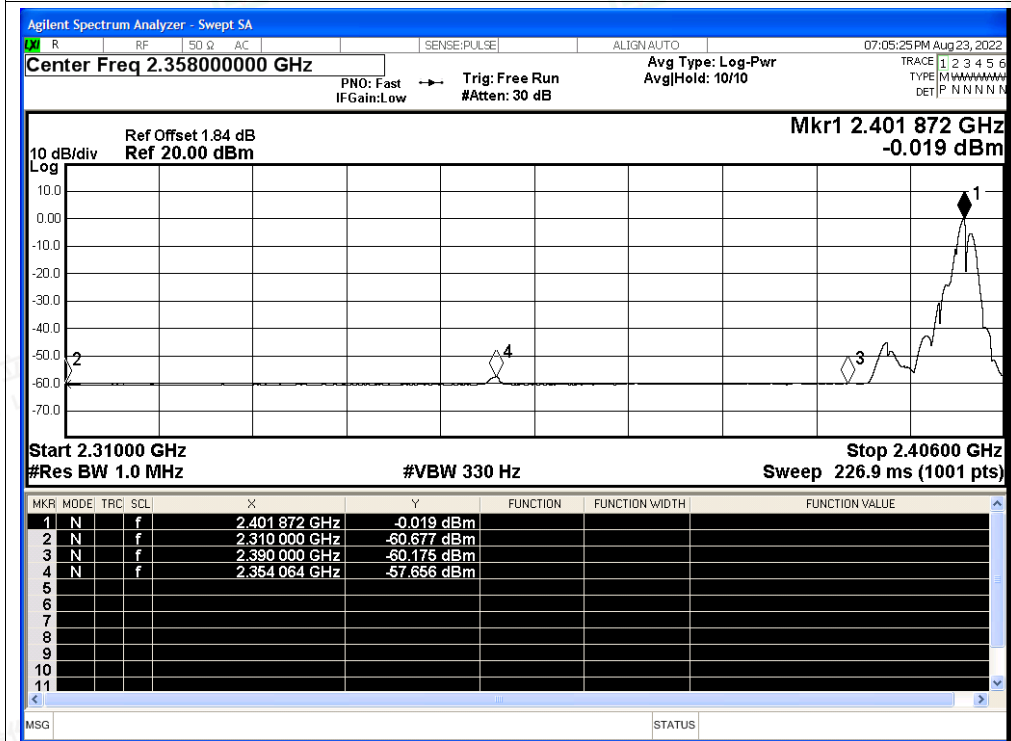
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Test Graphs

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



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



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

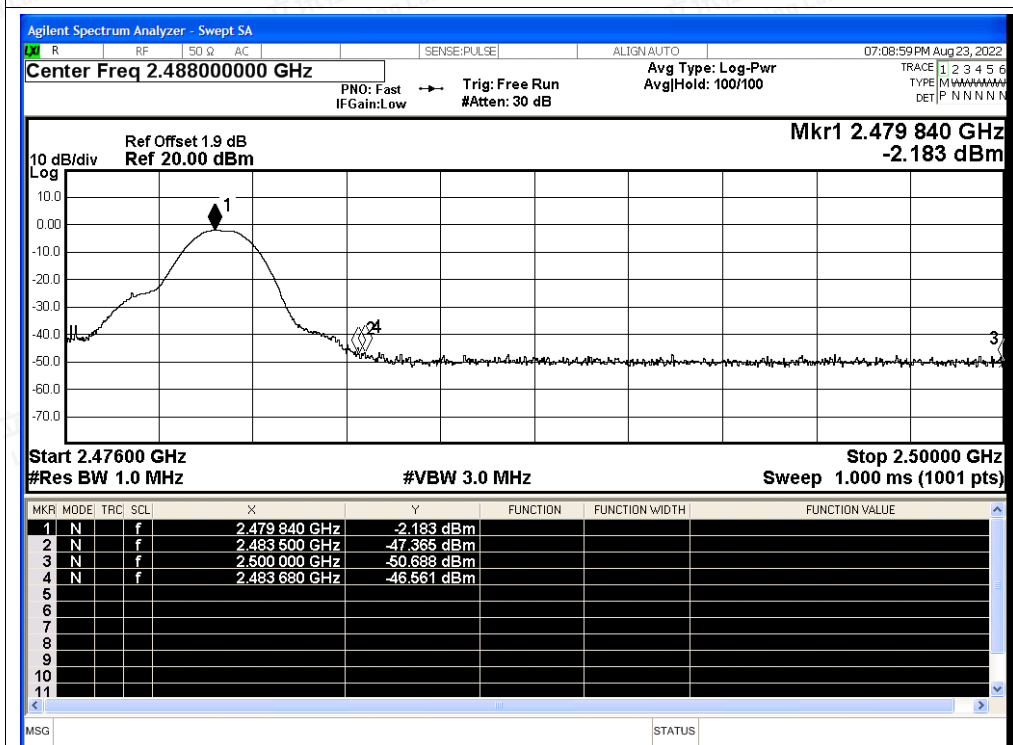
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

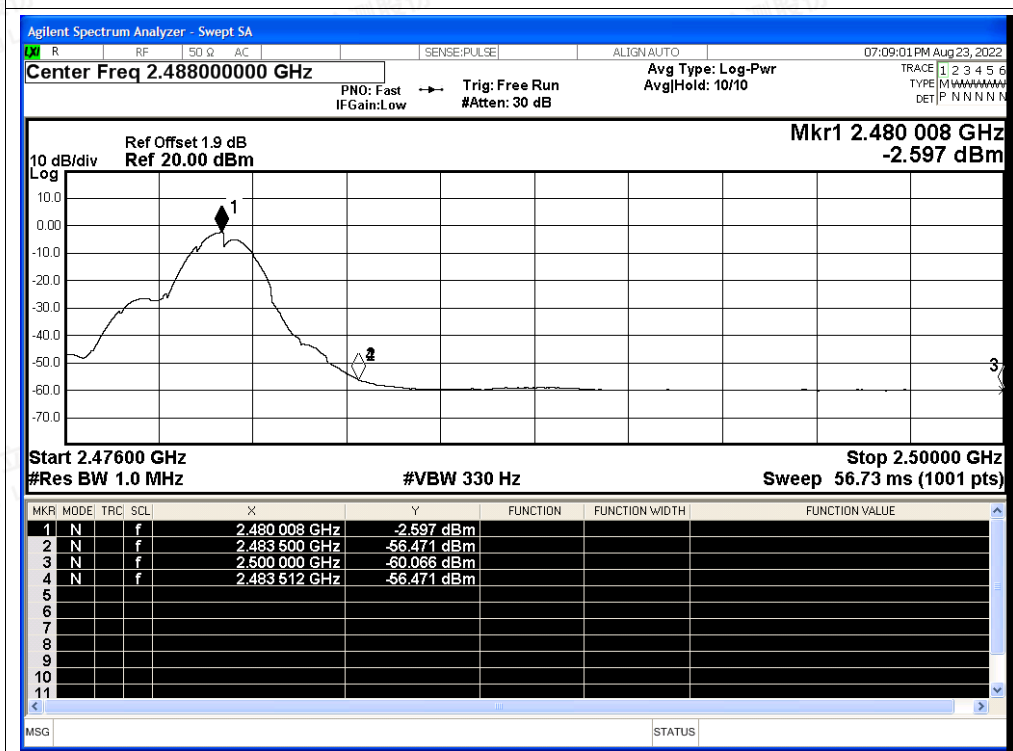


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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



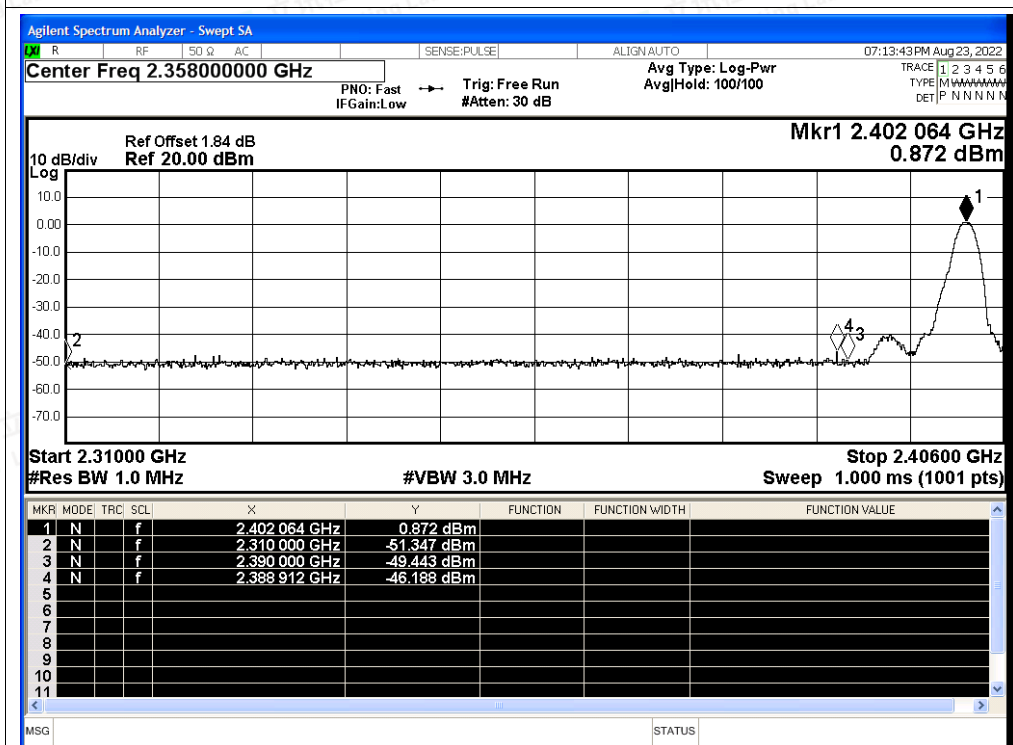
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



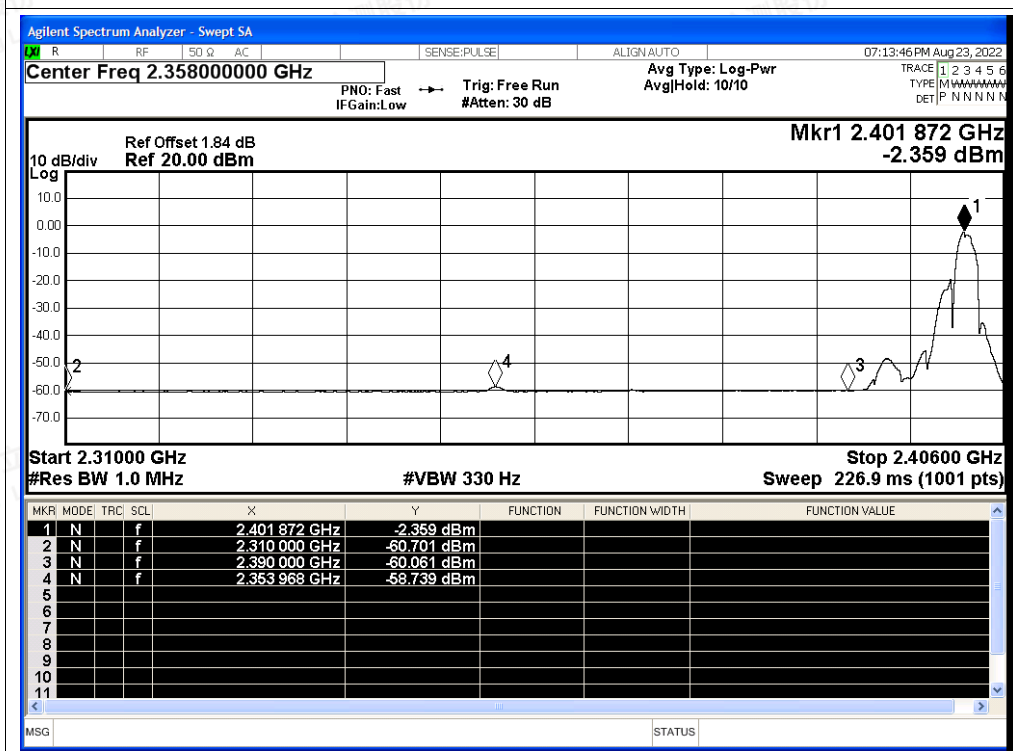


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Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



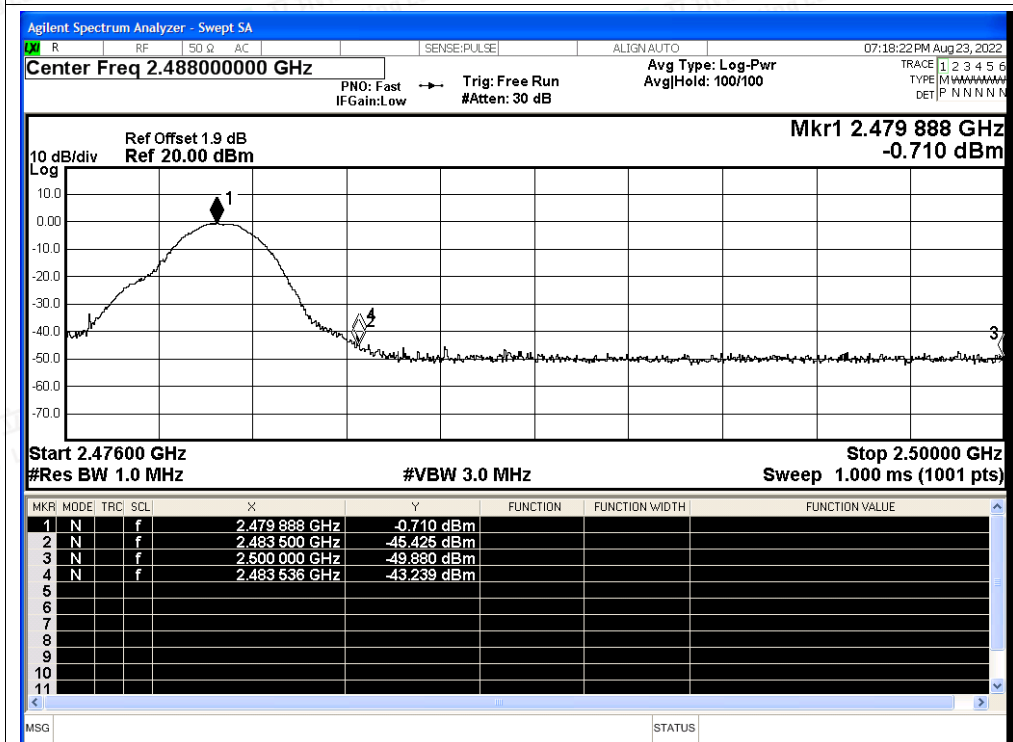
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average



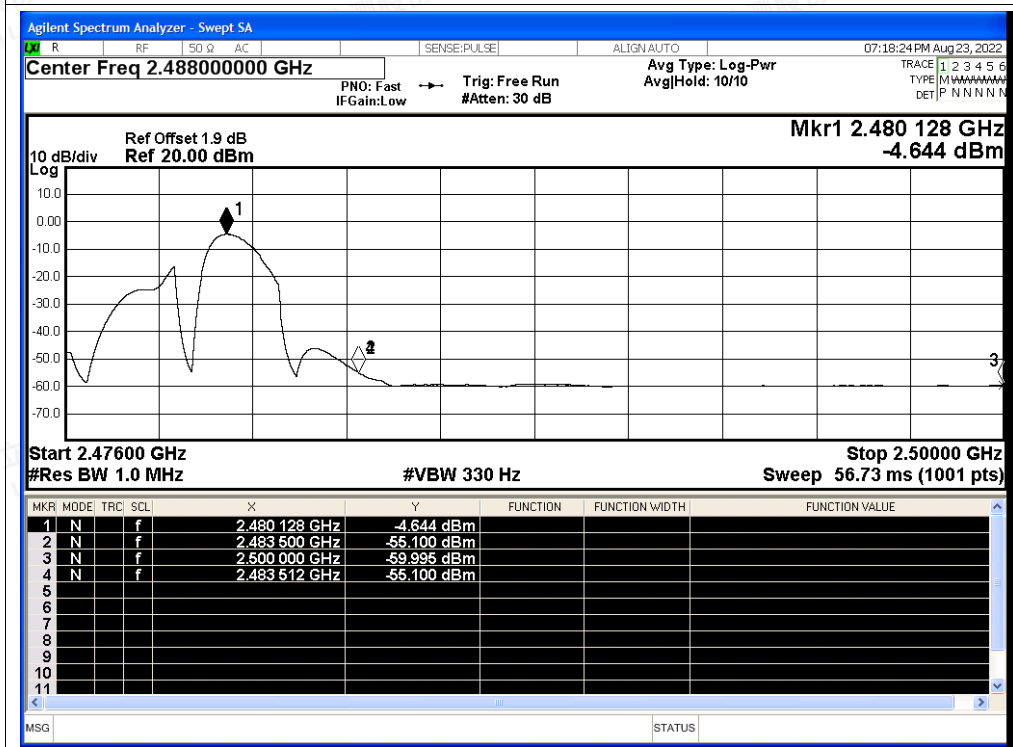


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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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



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