



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Wireless Speaker

Test Model: HKSPK2PK

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Nick Peng



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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	1.02	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.014	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.018	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.284	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.289	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.286	N/A	Pass

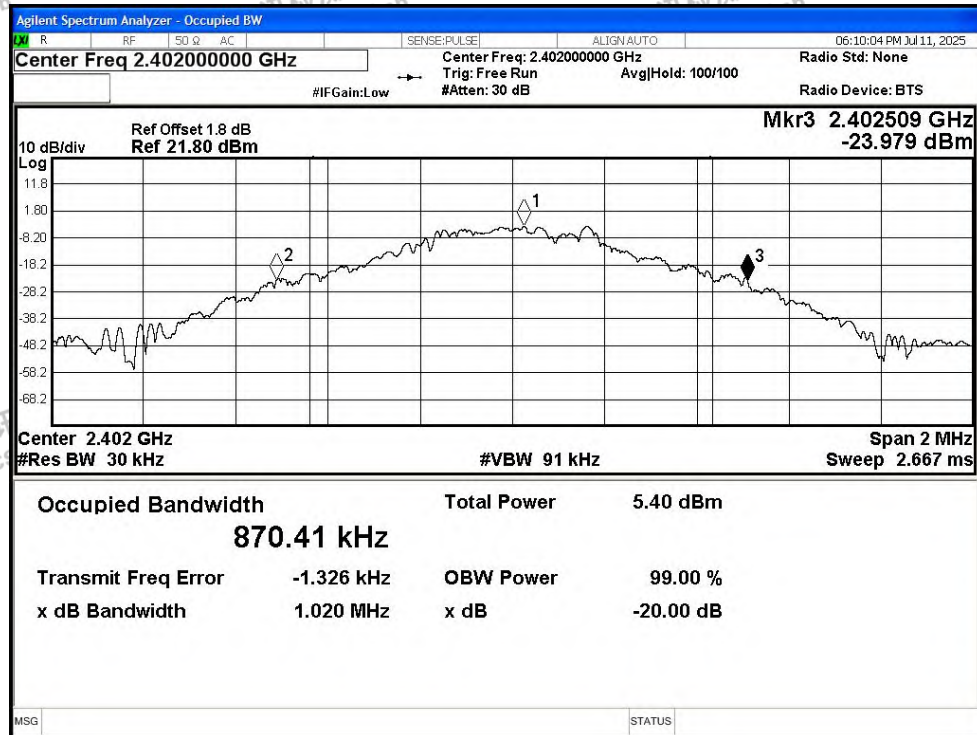


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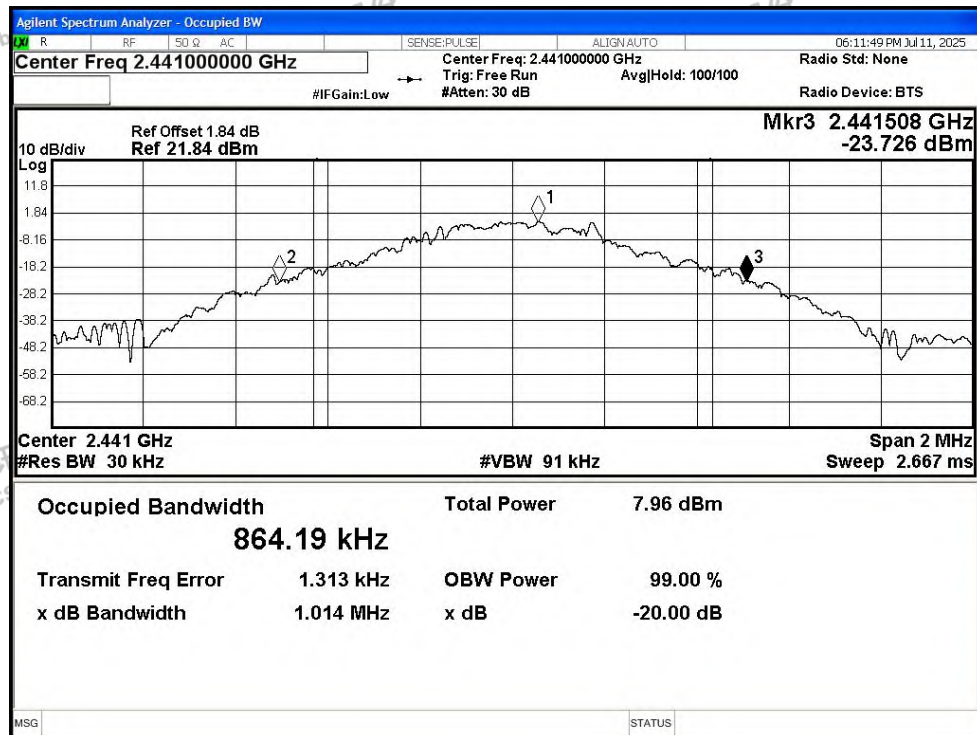


Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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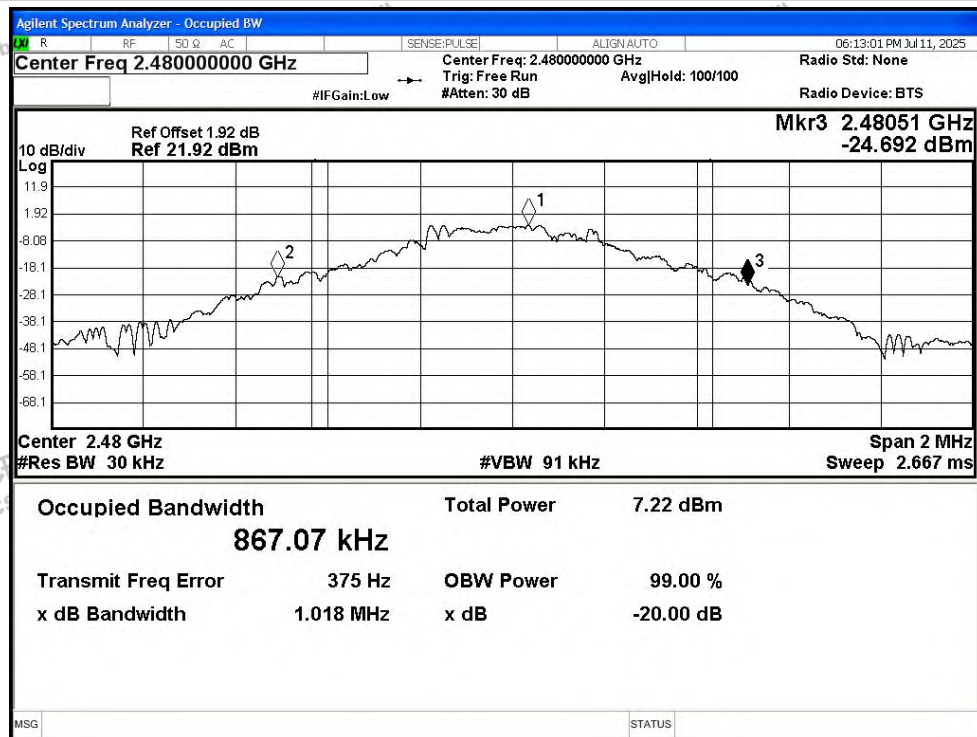
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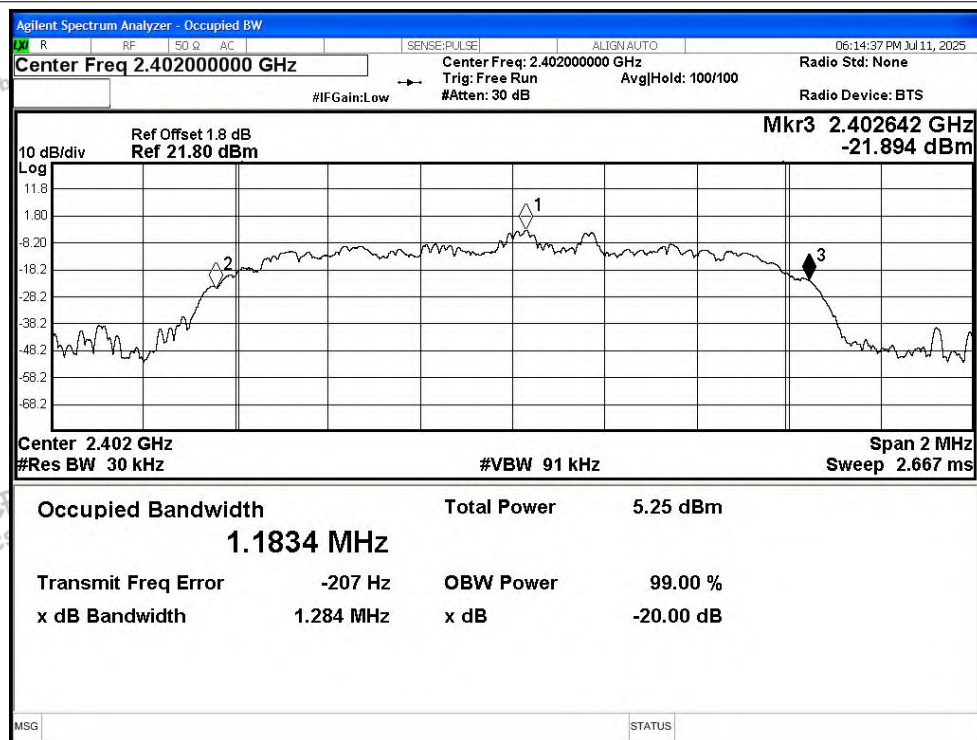
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-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



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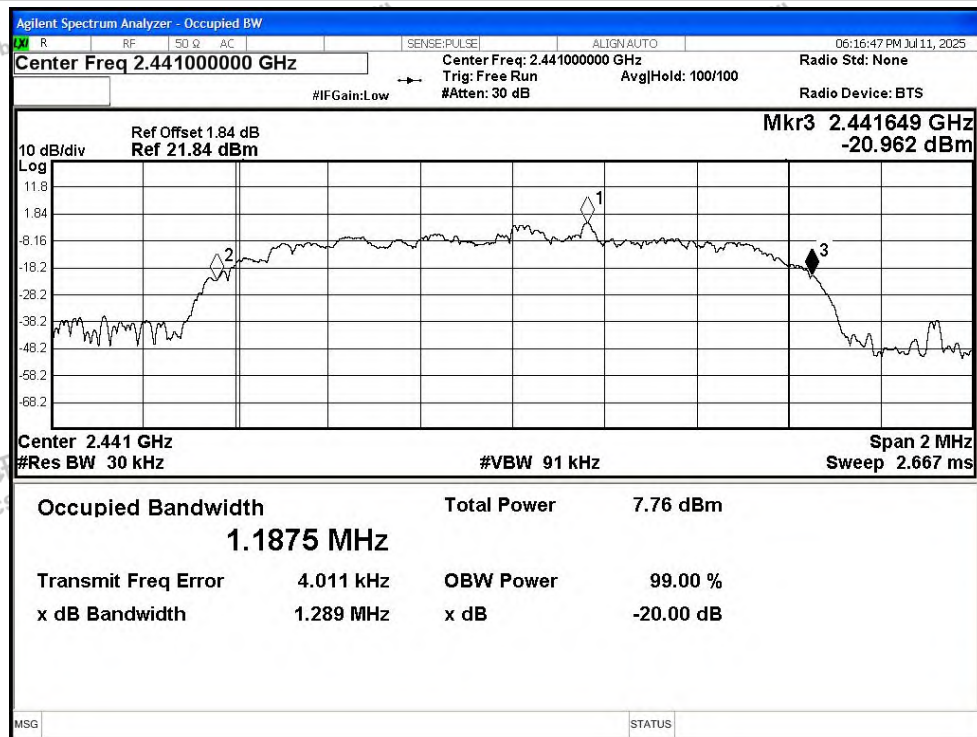
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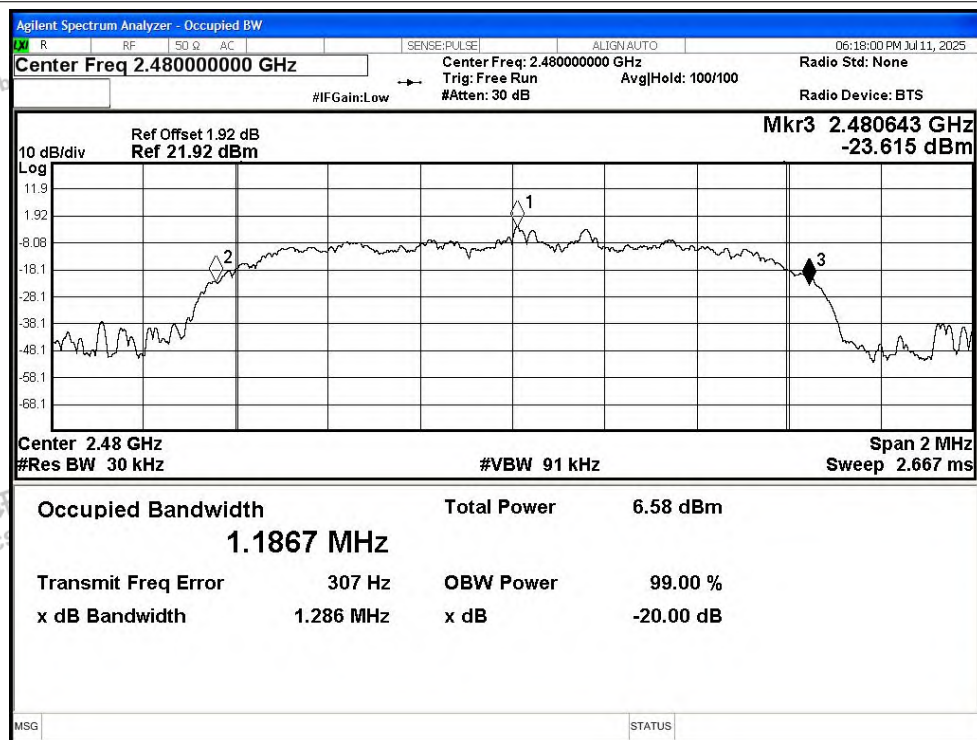
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-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-1.05	21	Pass
NVNT	1-DH5	2441	Ant1	1.7	21	Pass
NVNT	1-DH5	2480	Ant1	0.65	21	Pass
NVNT	2-DH5	2402	Ant1	0.81	21	Pass
NVNT	2-DH5	2441	Ant1	3.39	21	Pass
NVNT	2-DH5	2480	Ant1	2.27	21	Pass



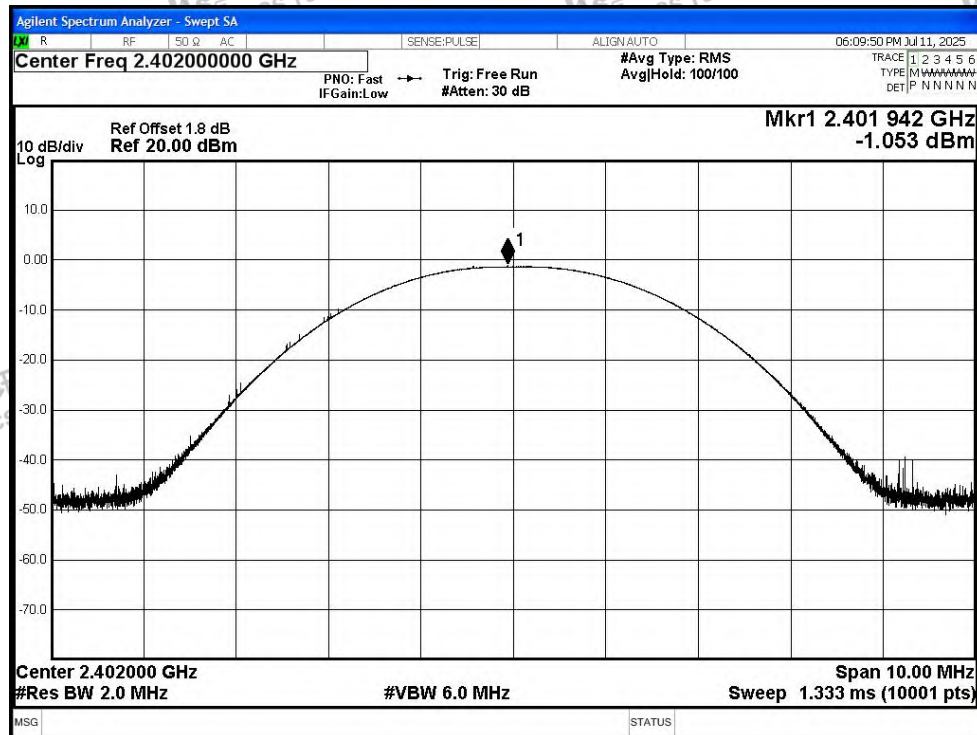
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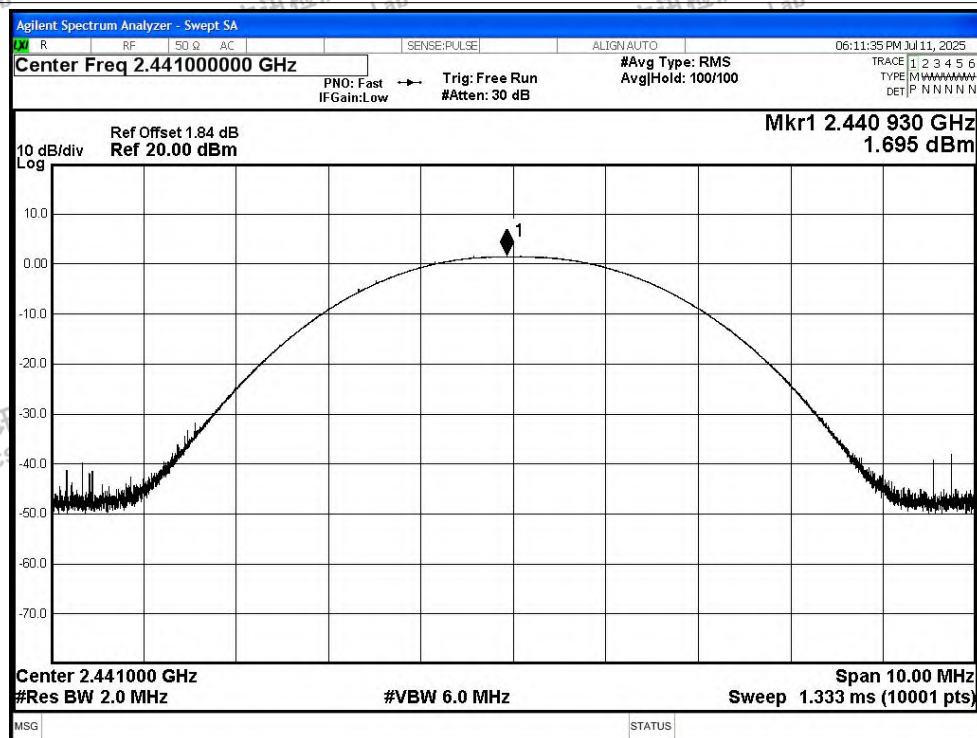
A.3

Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1



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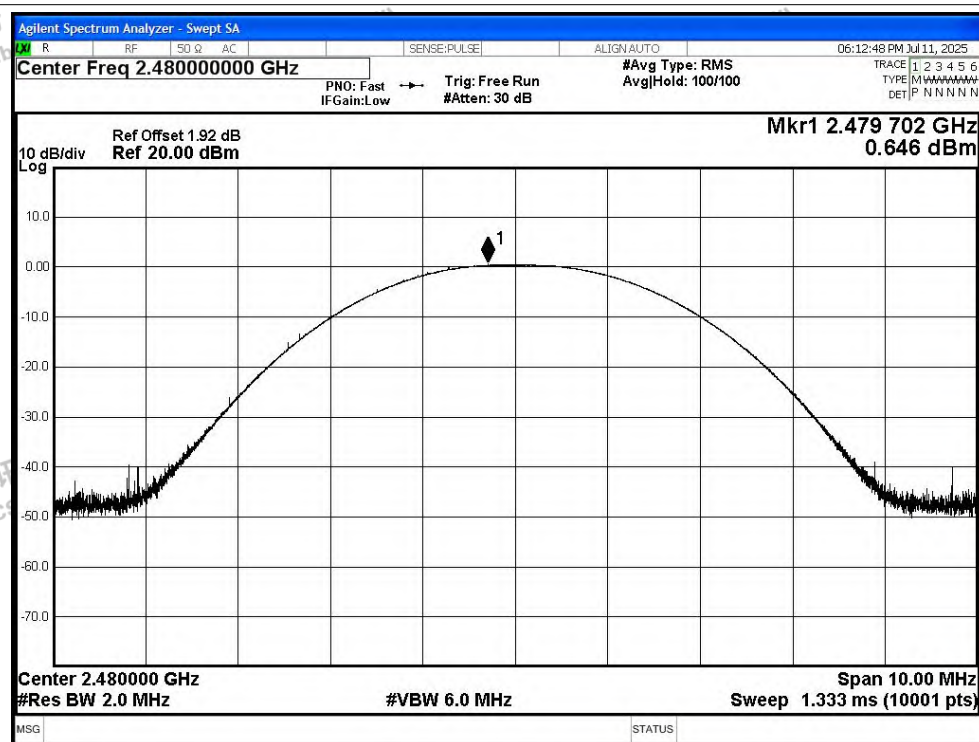
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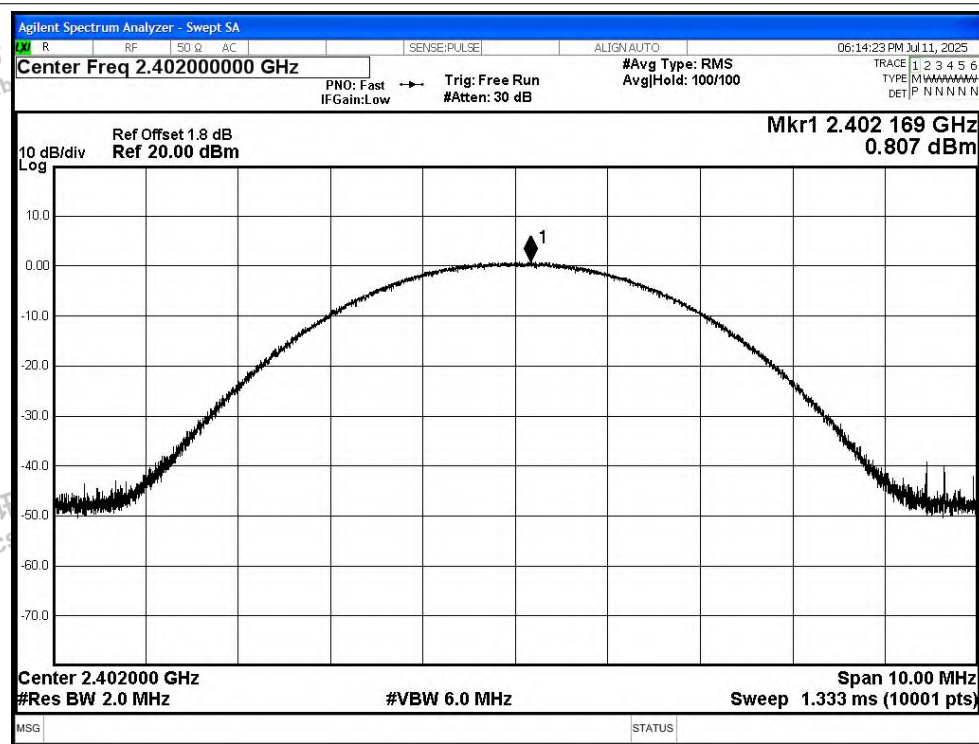
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Power NVNT 1-DH5 2480MHz Ant1



Power NVNT 2-DH5 2402MHz Ant1



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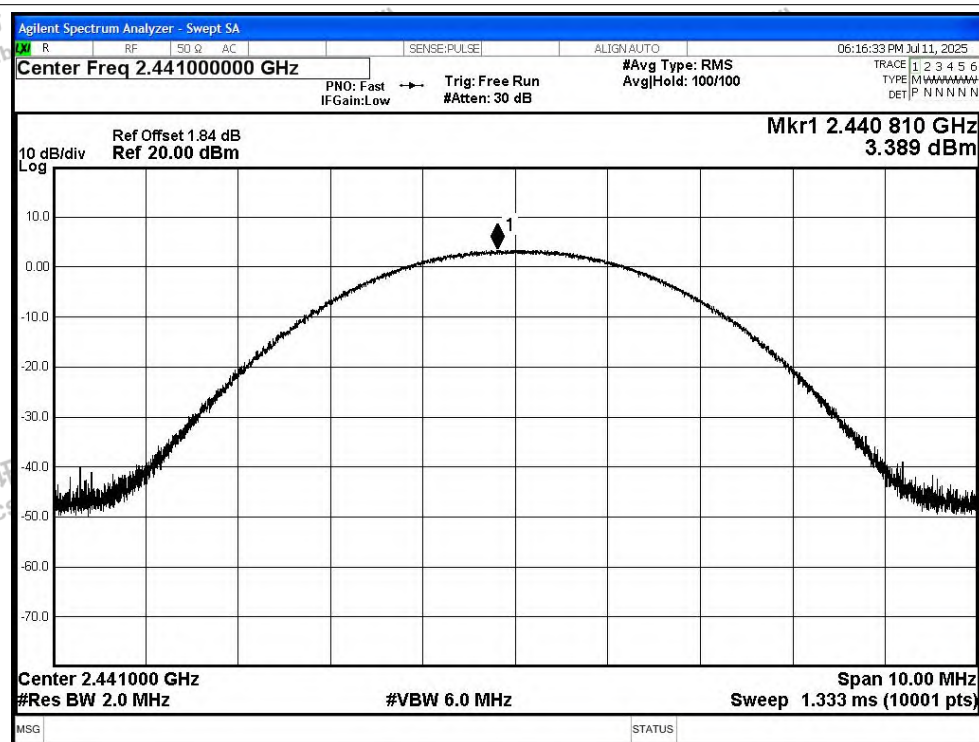
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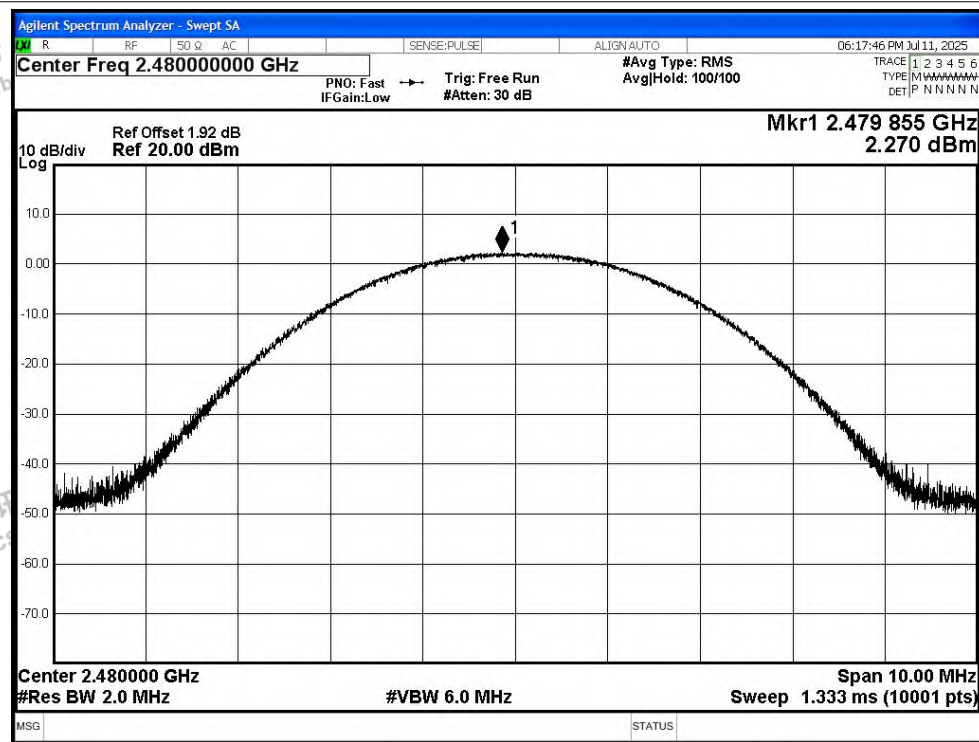
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Power NVNT 2-DH5 2441MHz Ant1



Power NVNT 2-DH5 2480MHz Ant1



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A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.838	2403.056	1.218	0.680	Pass
NVNT	2-DH5	Ant1	2402.016	2403.17	1.154	0.859	Pass

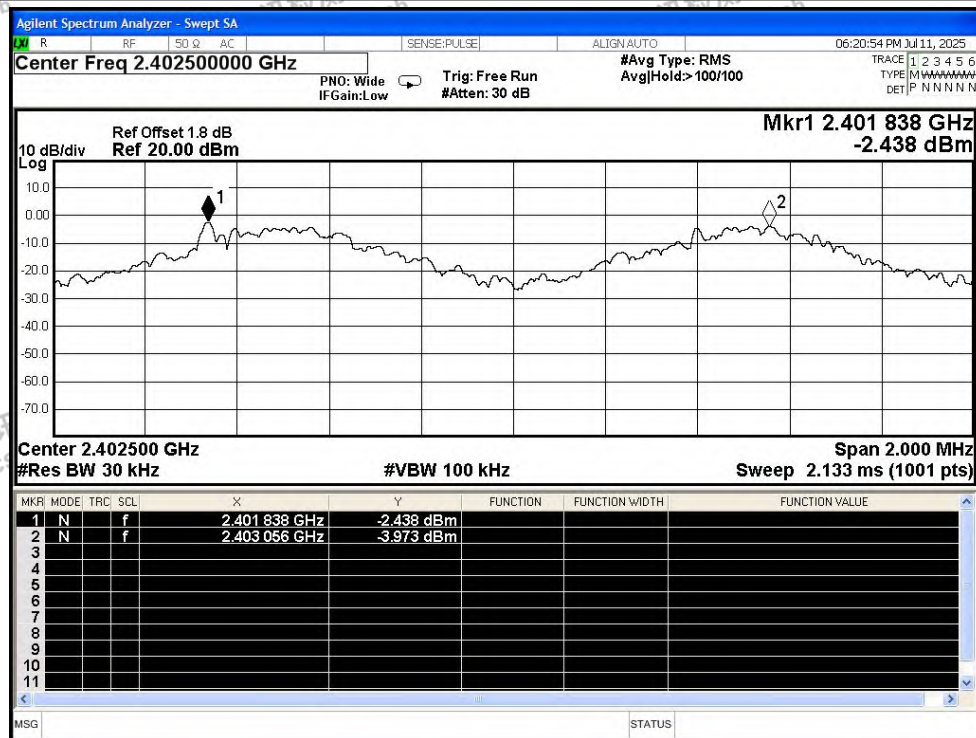


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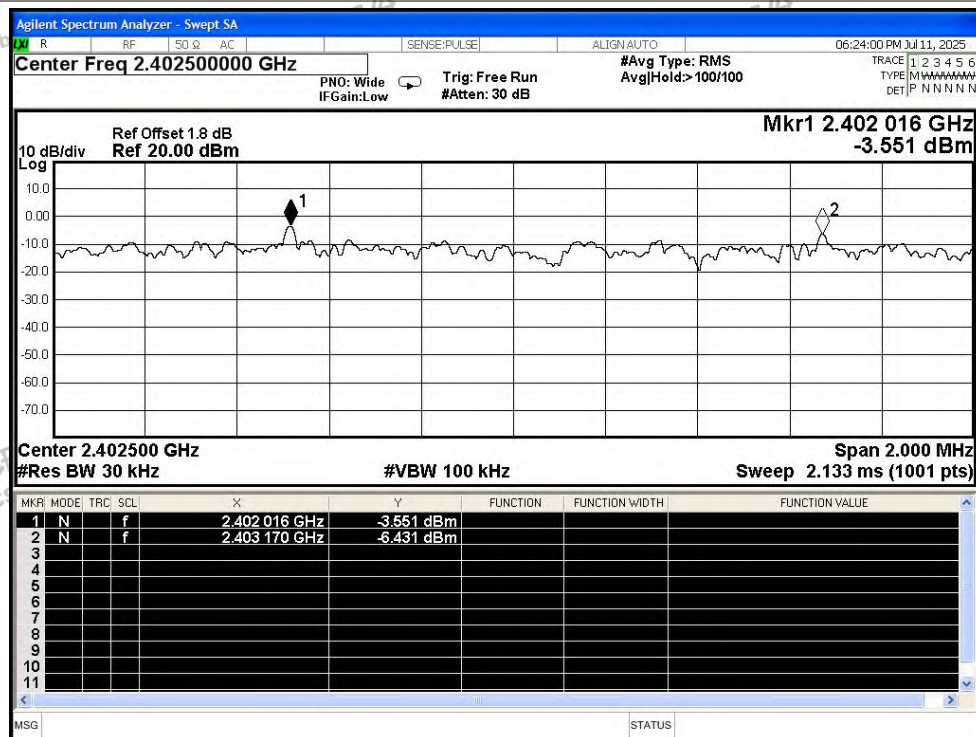


Test Graphs

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	2.91	340.47	117	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.182	213.836	98	31600	400	Pass

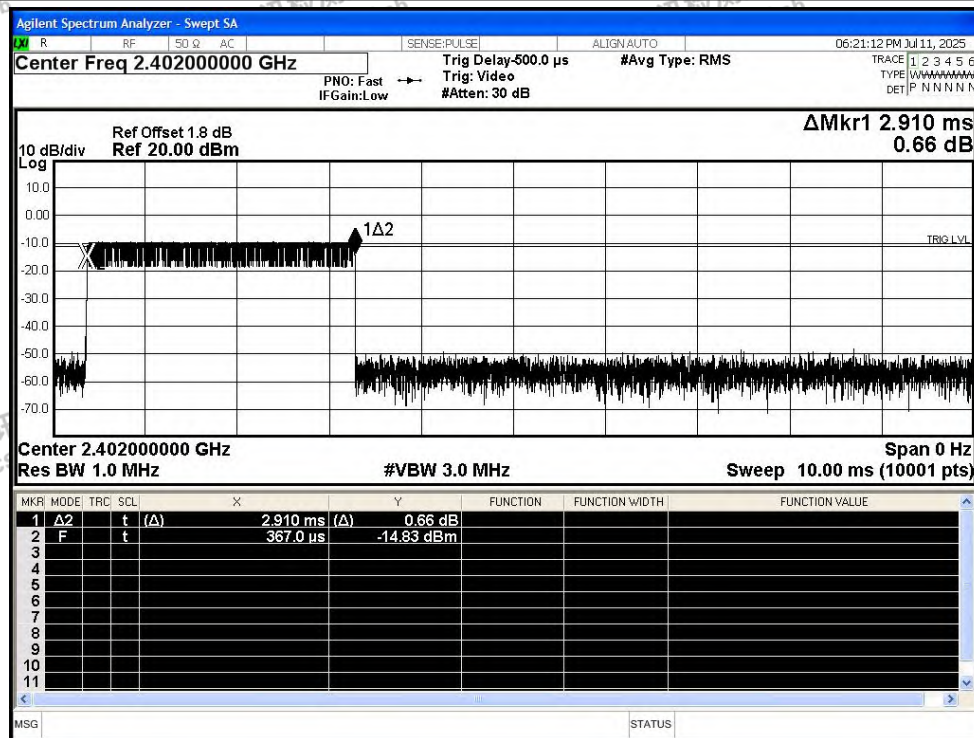


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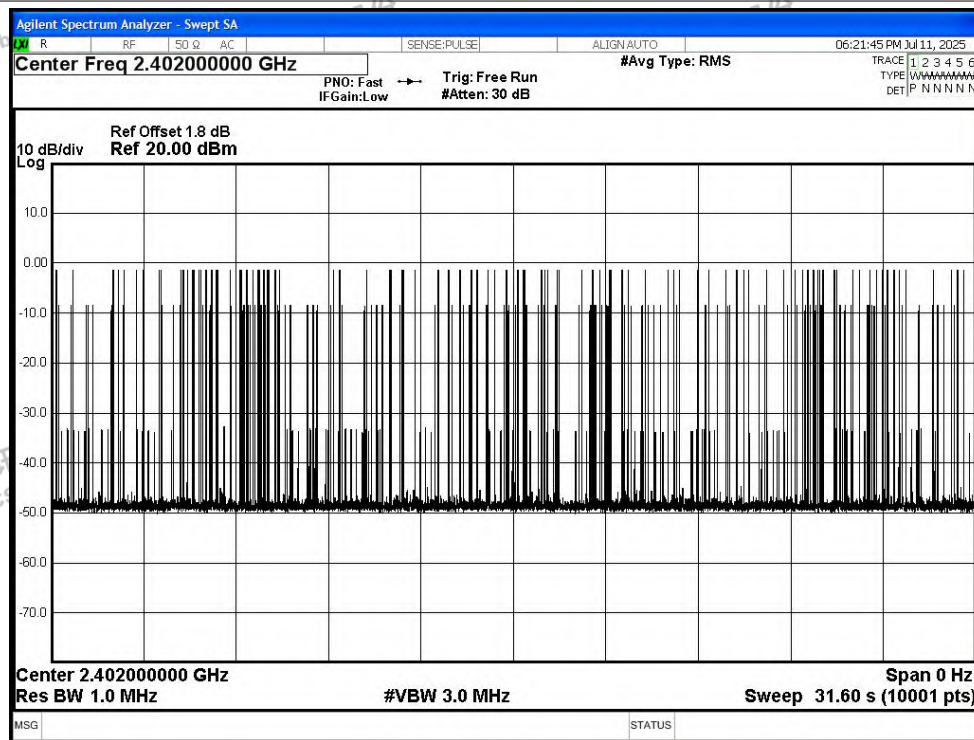


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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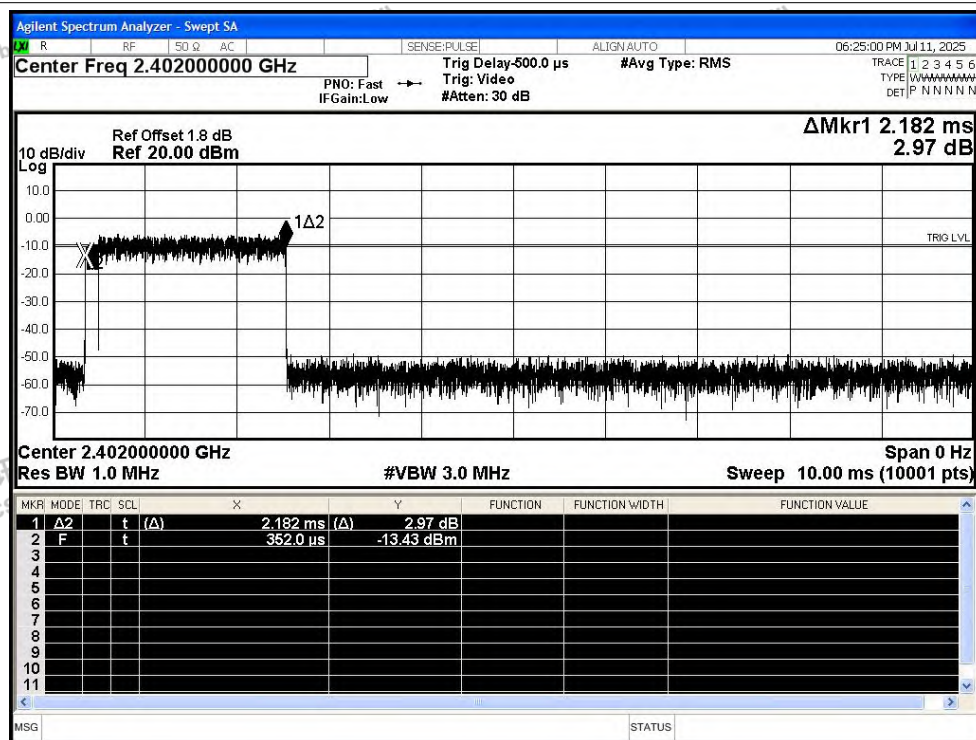
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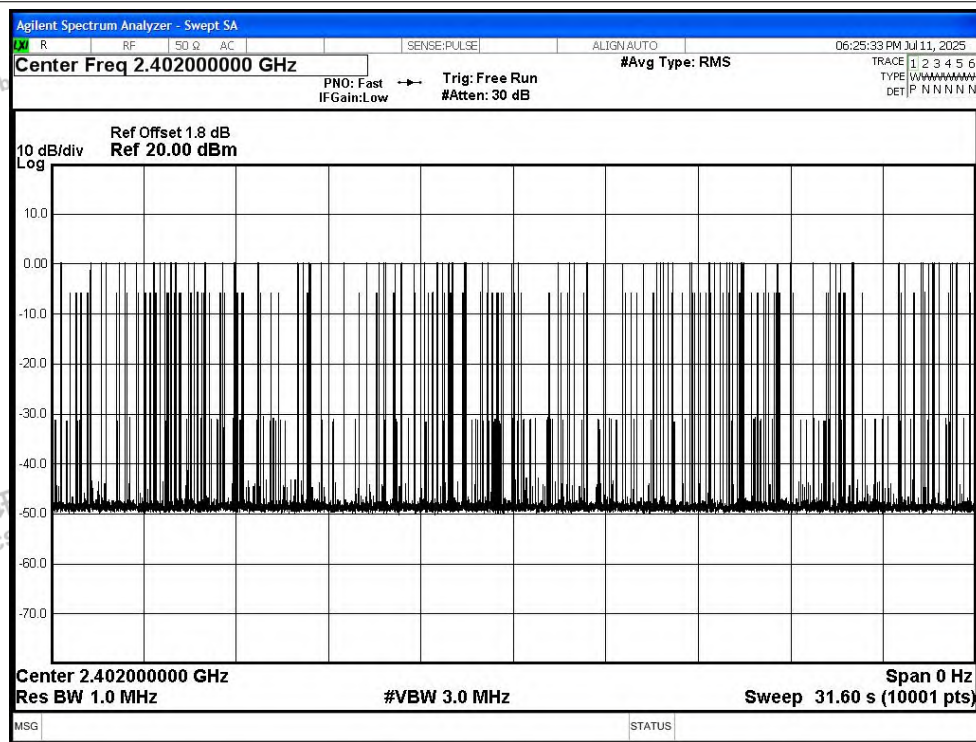
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Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



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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

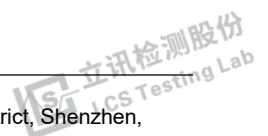
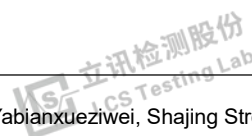


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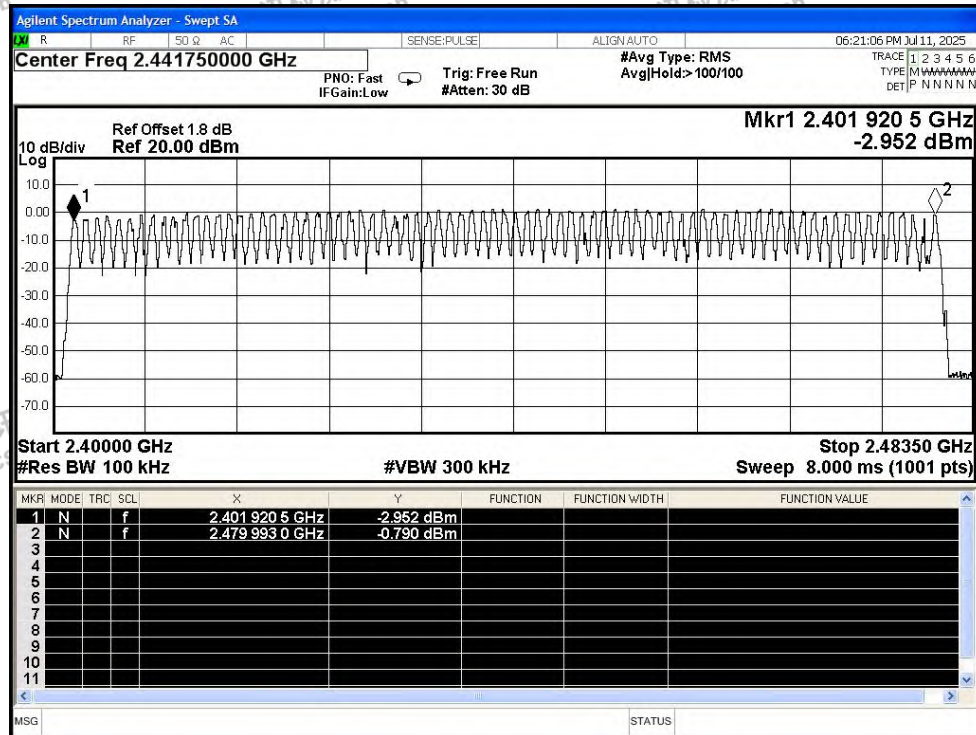
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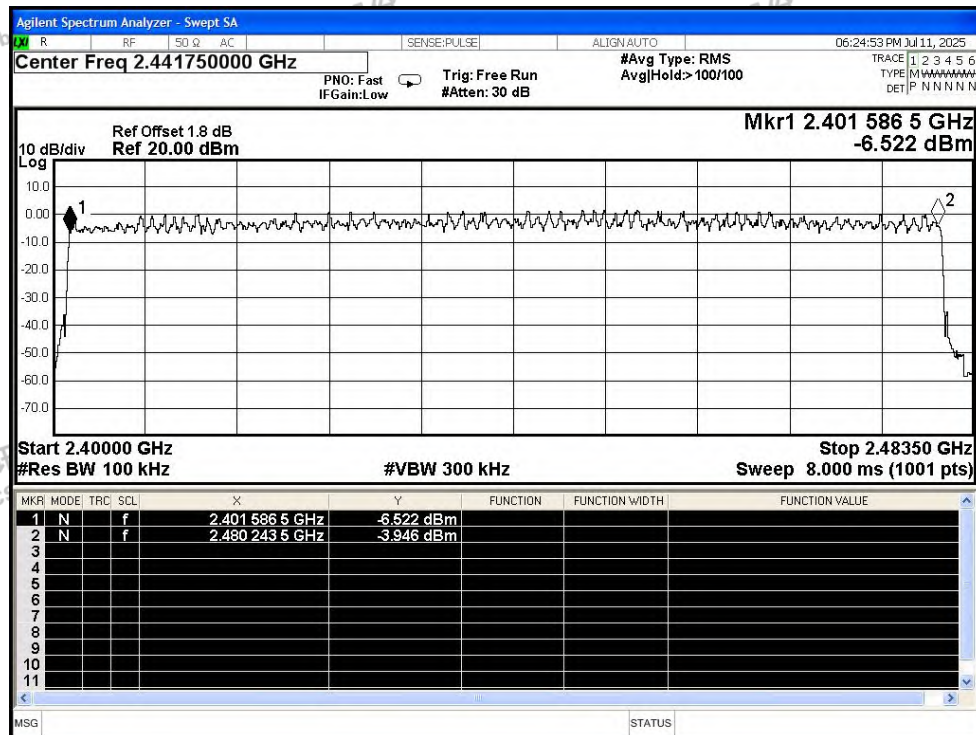


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



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A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-54.67	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.58	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-49.91	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.74	-20	Pass

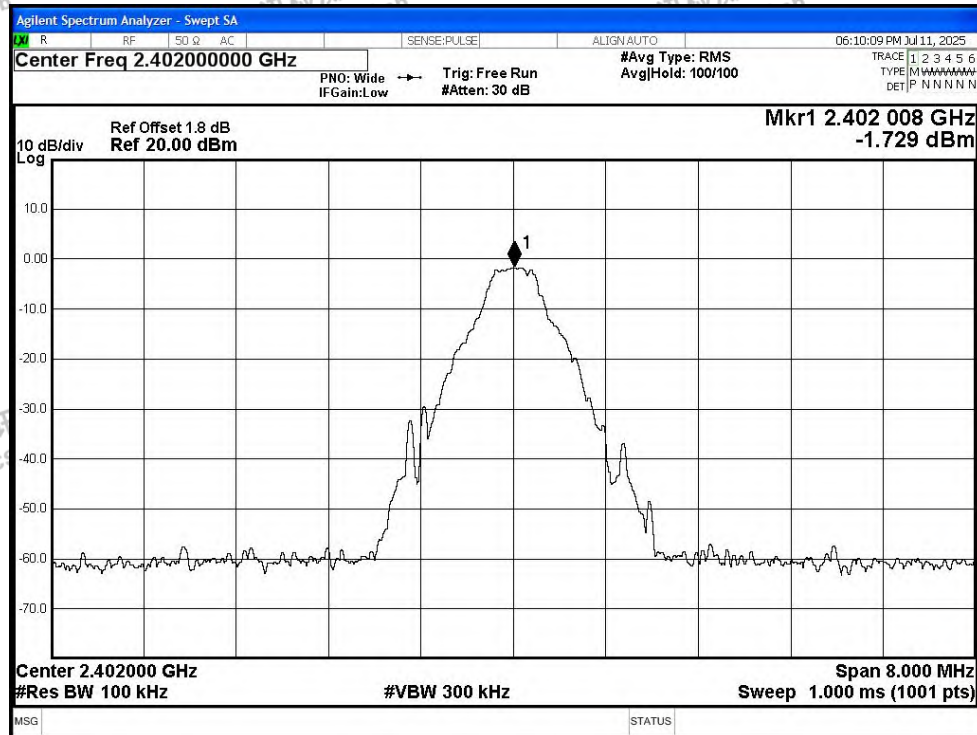


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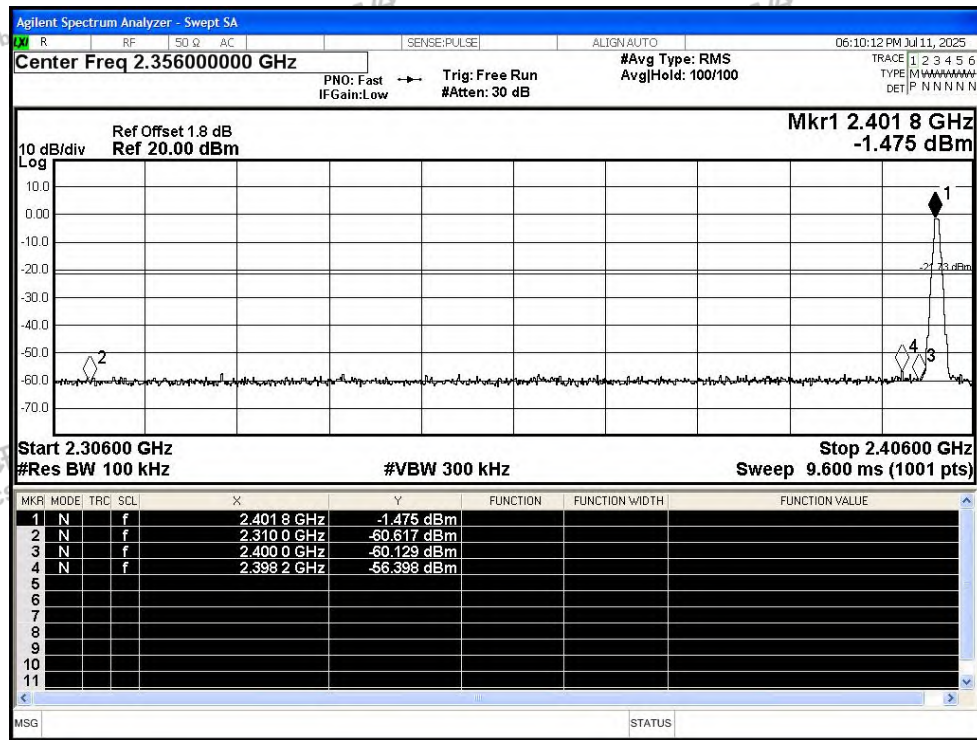


Test Graphs

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



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



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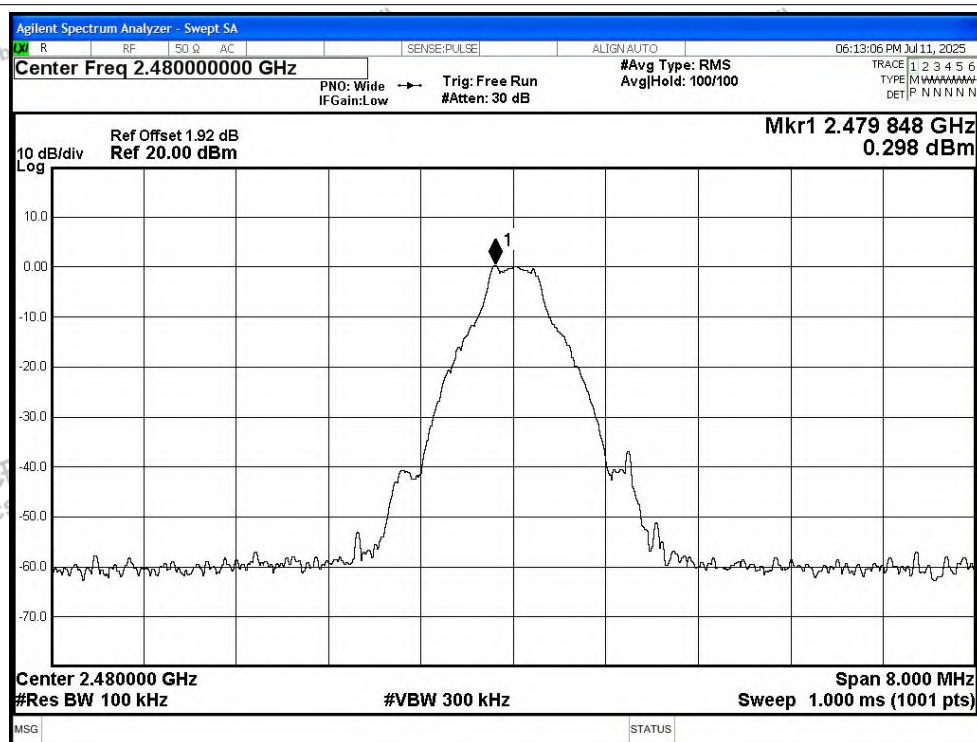
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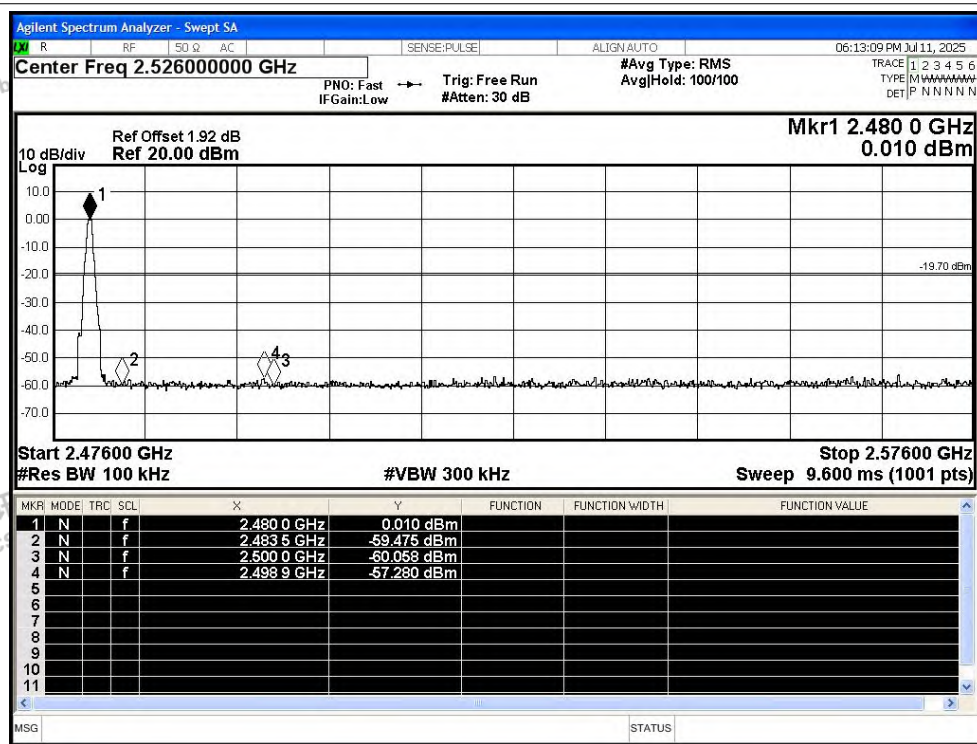
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Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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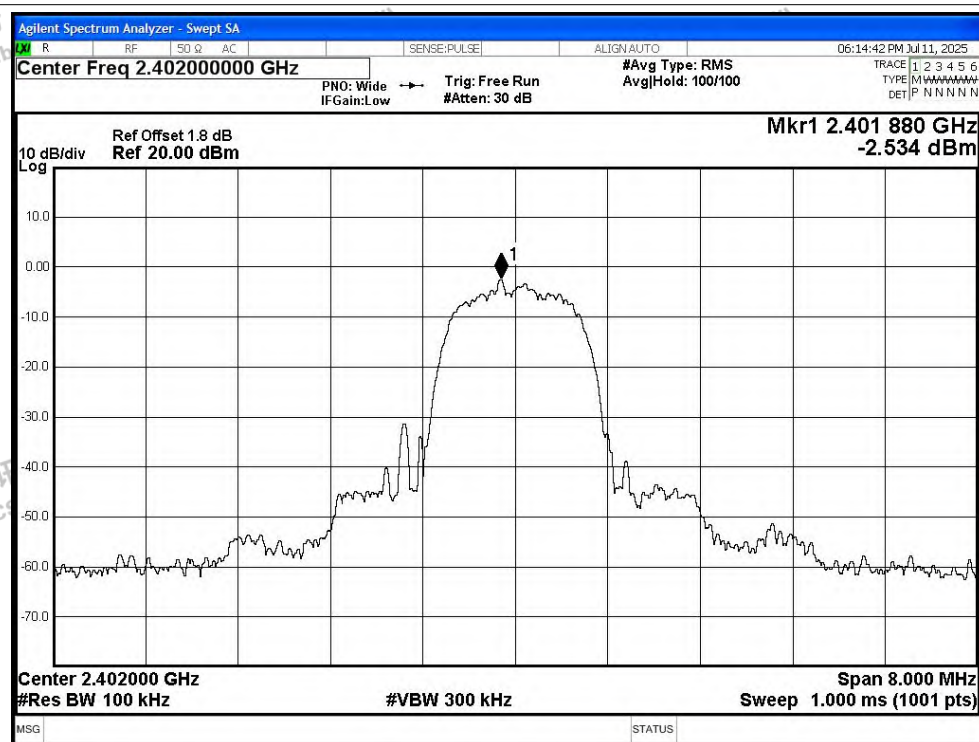
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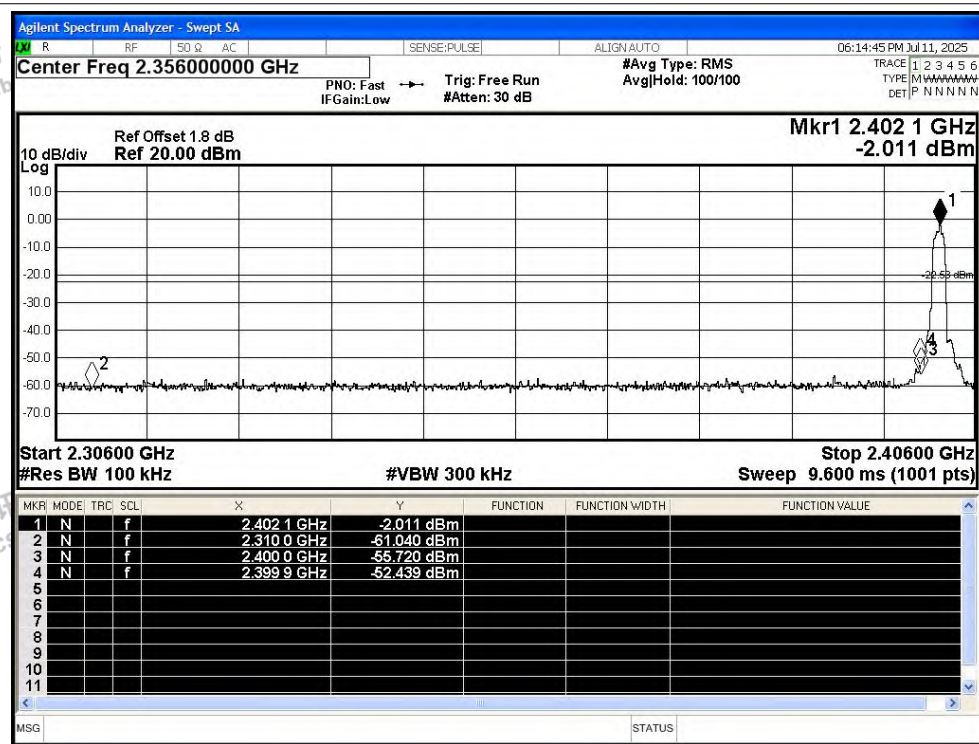
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Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



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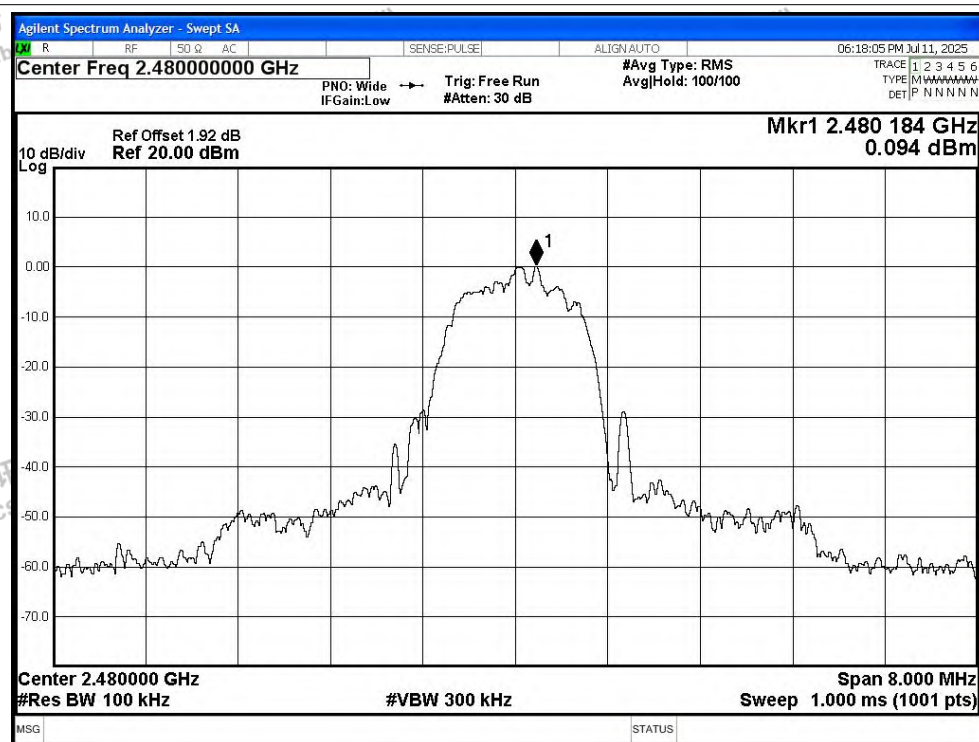
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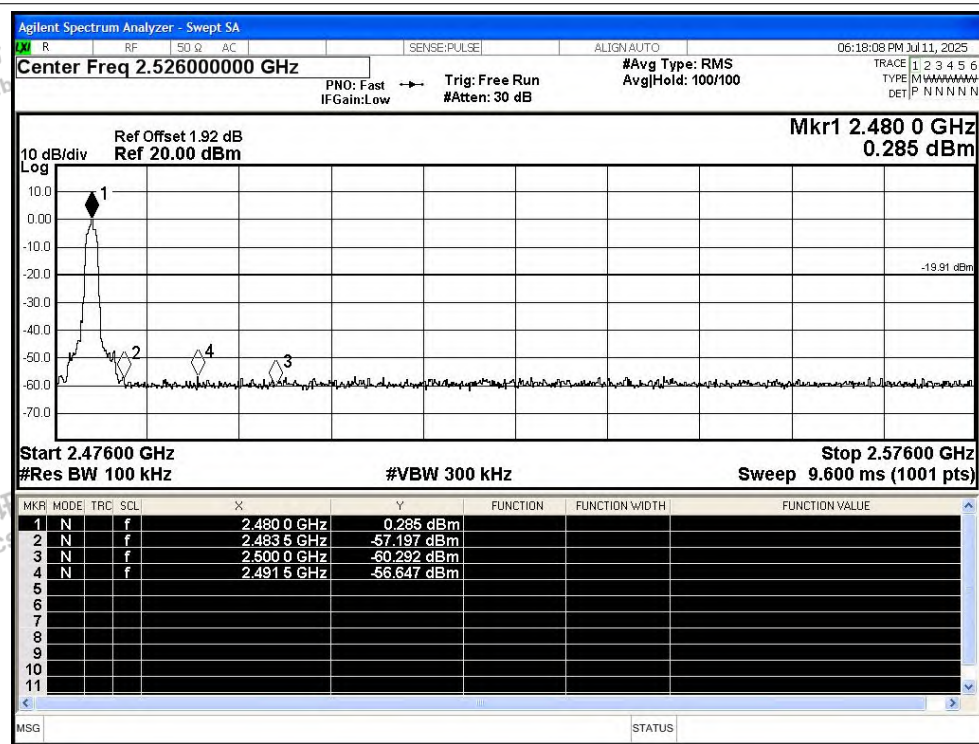
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Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-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	-55.4	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.11	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-54.34	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-56.07	-20	Pass

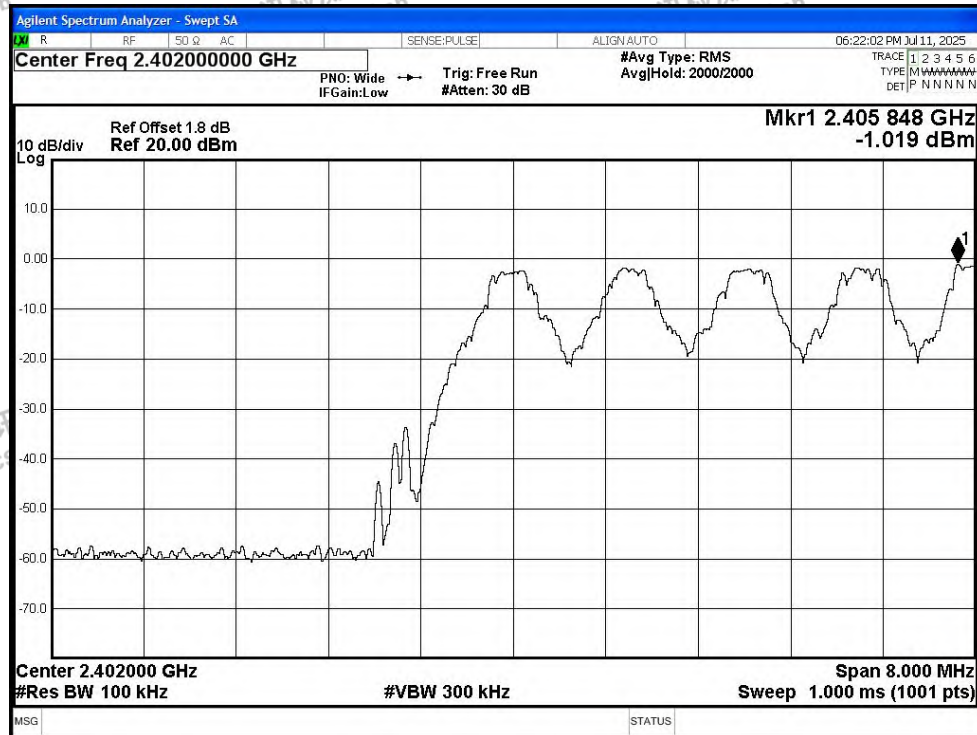


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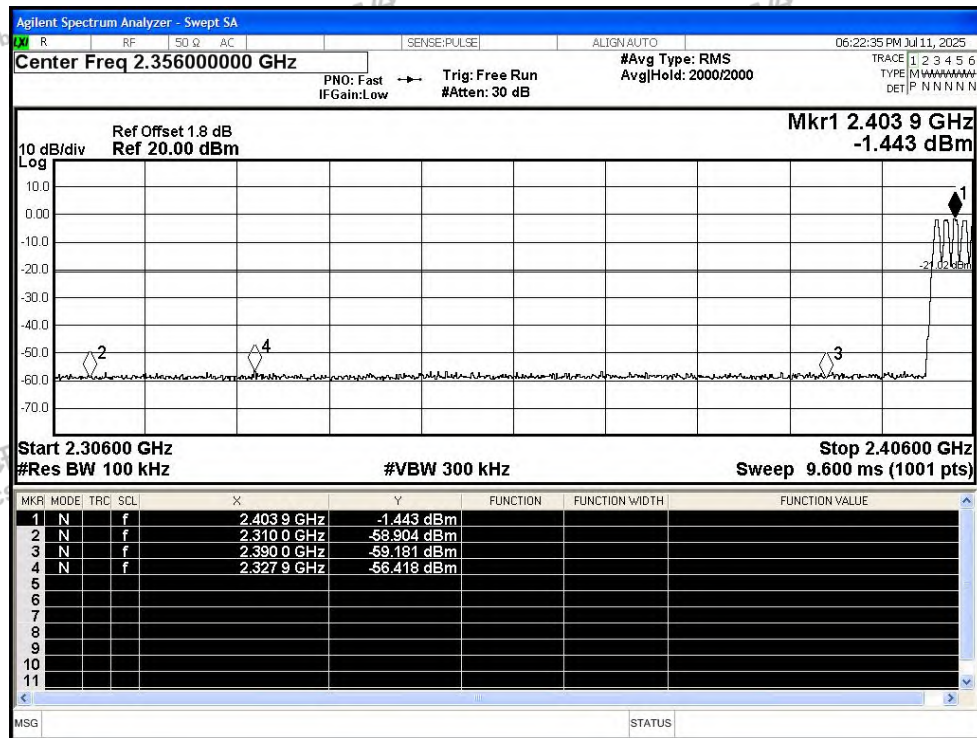


Test Graphs

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



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



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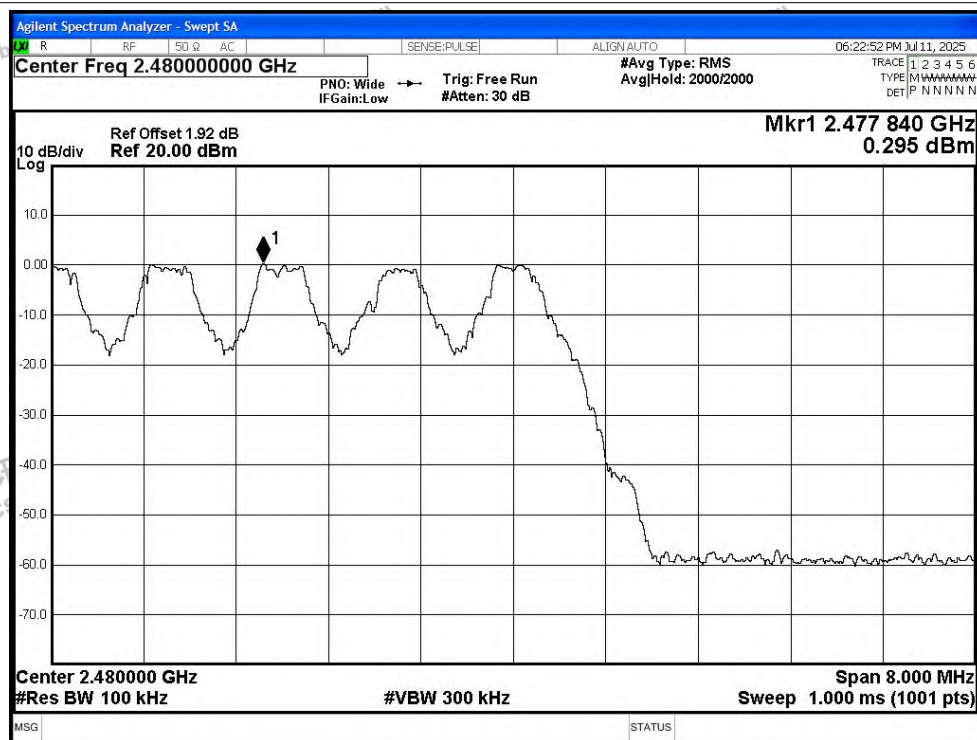
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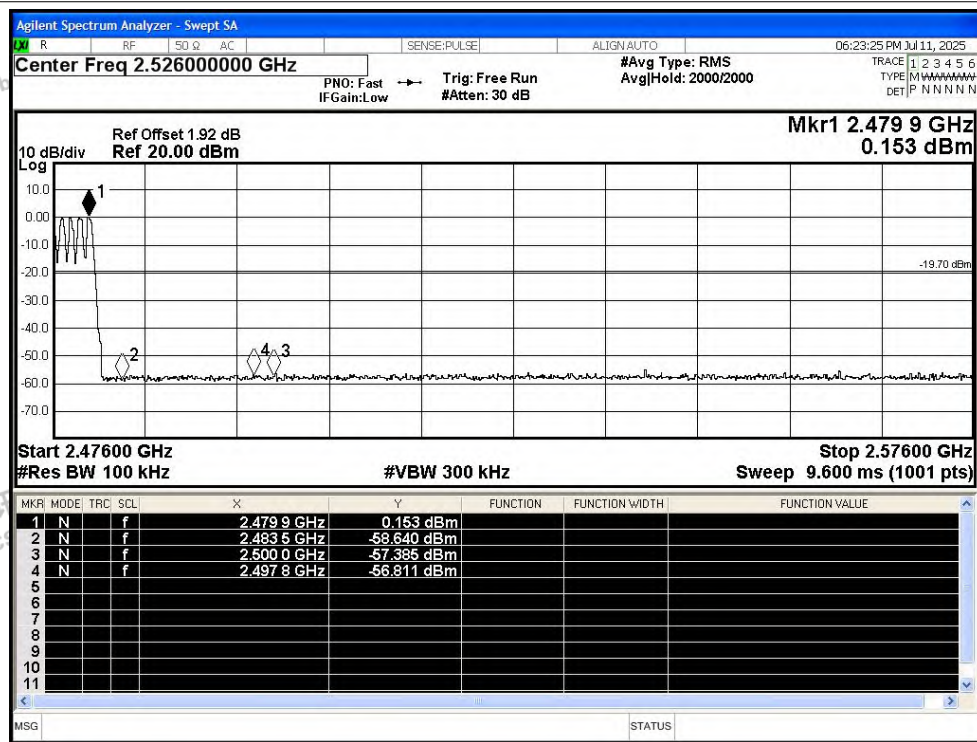
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Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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



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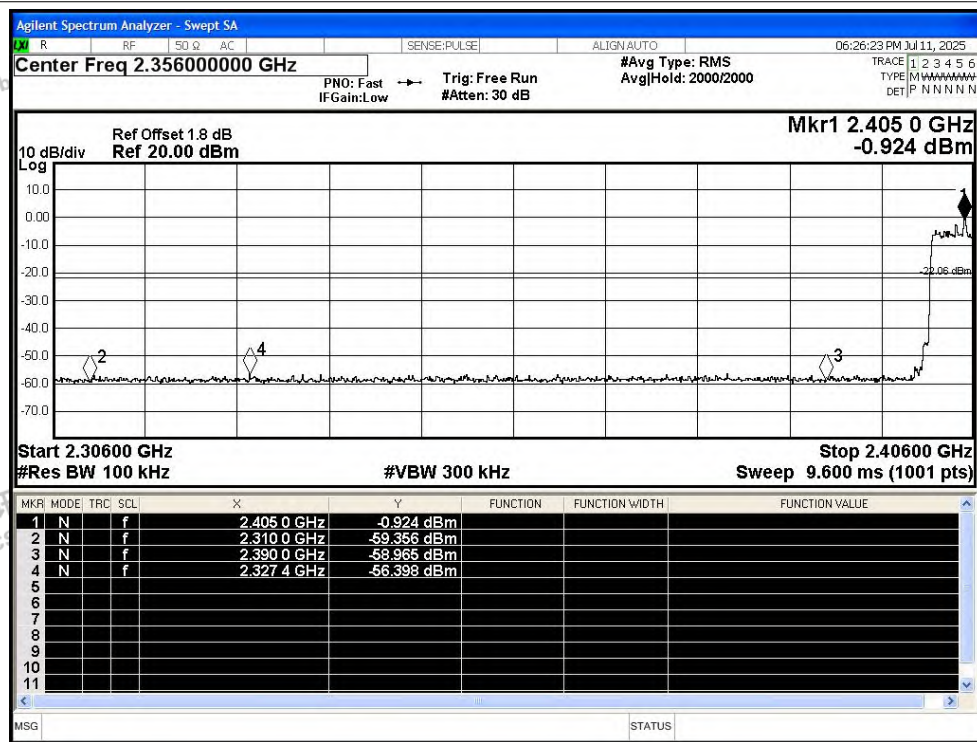
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Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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



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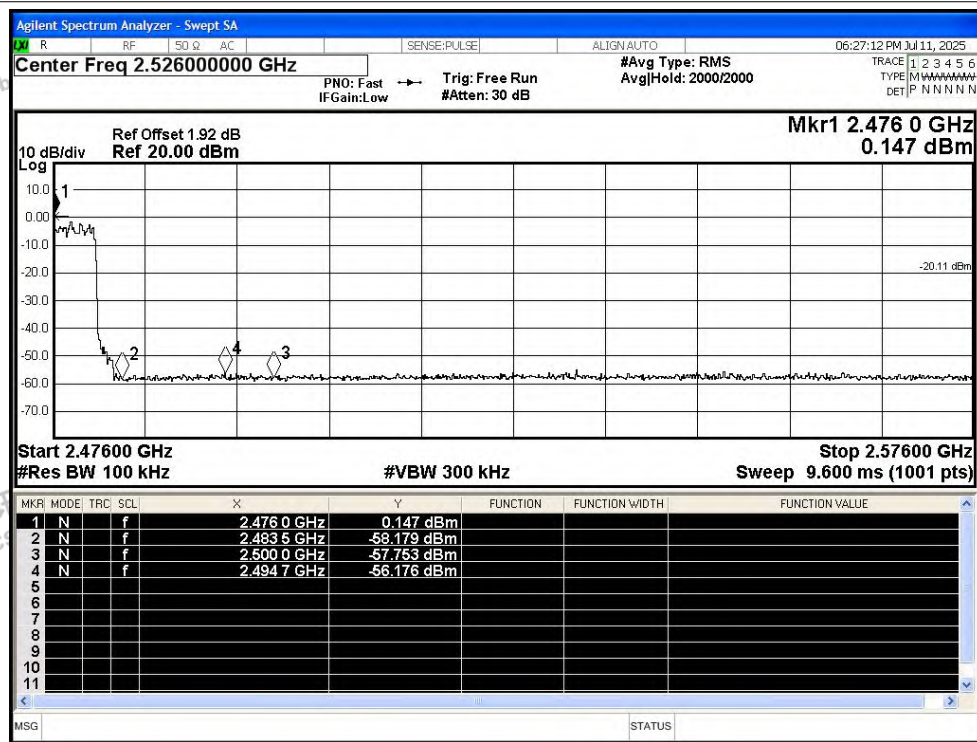
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Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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



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A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-54.19	-20	Pass
NVNT	1-DH5	2441	Ant1	-56.97	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.29	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.12	-20	Pass
NVNT	2-DH5	2441	Ant1	-55.57	-20	Pass
NVNT	2-DH5	2480	Ant1	-55.32	-20	Pass

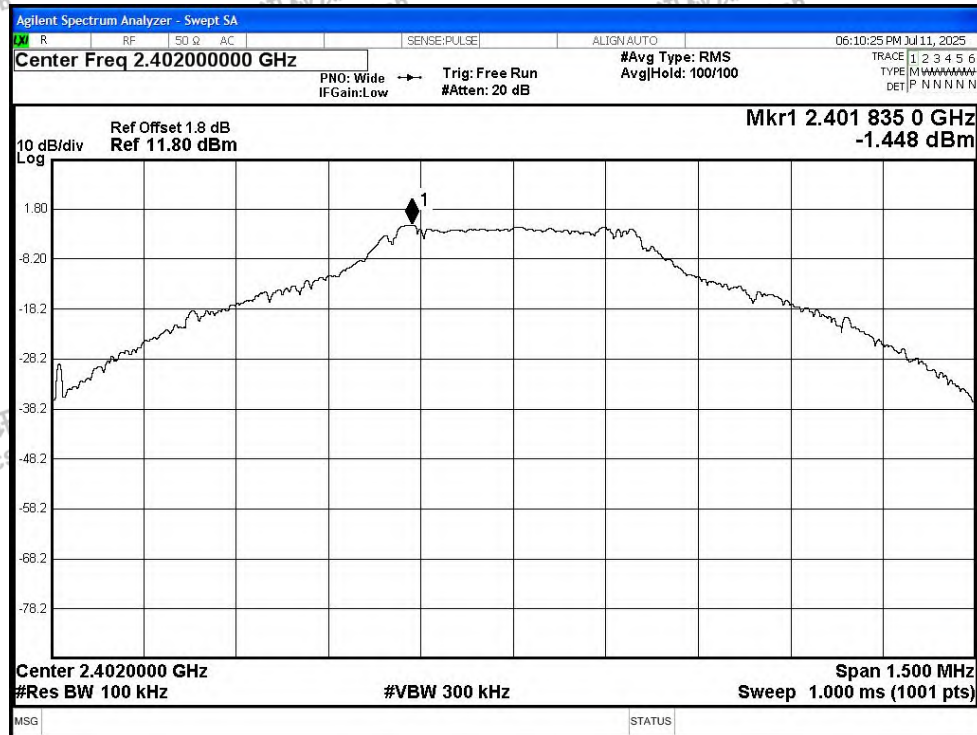


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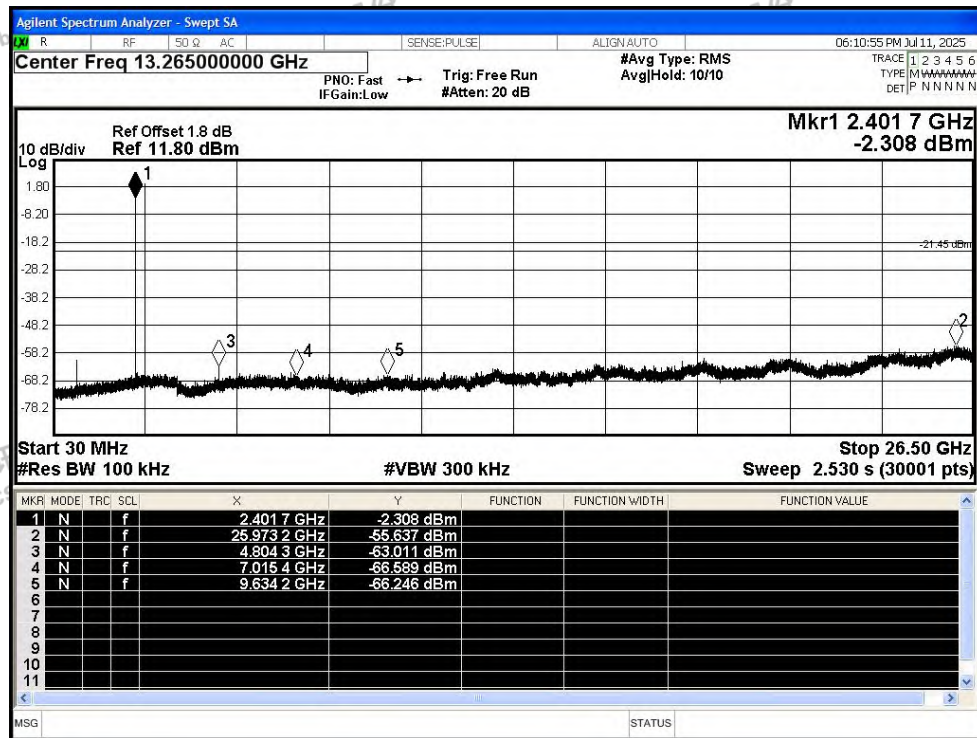


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

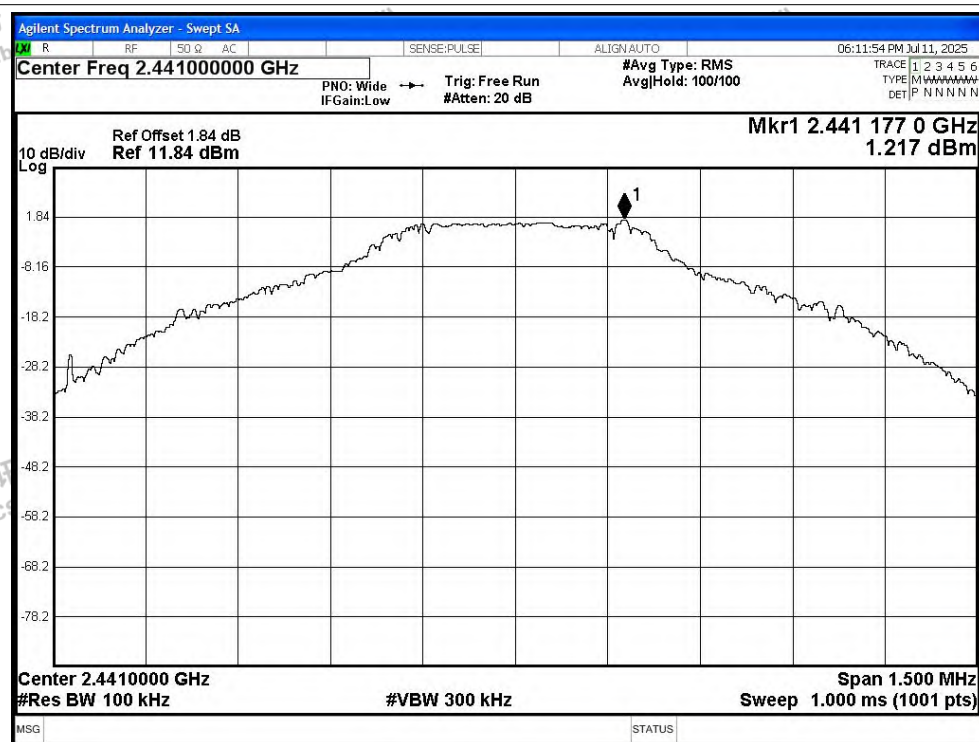
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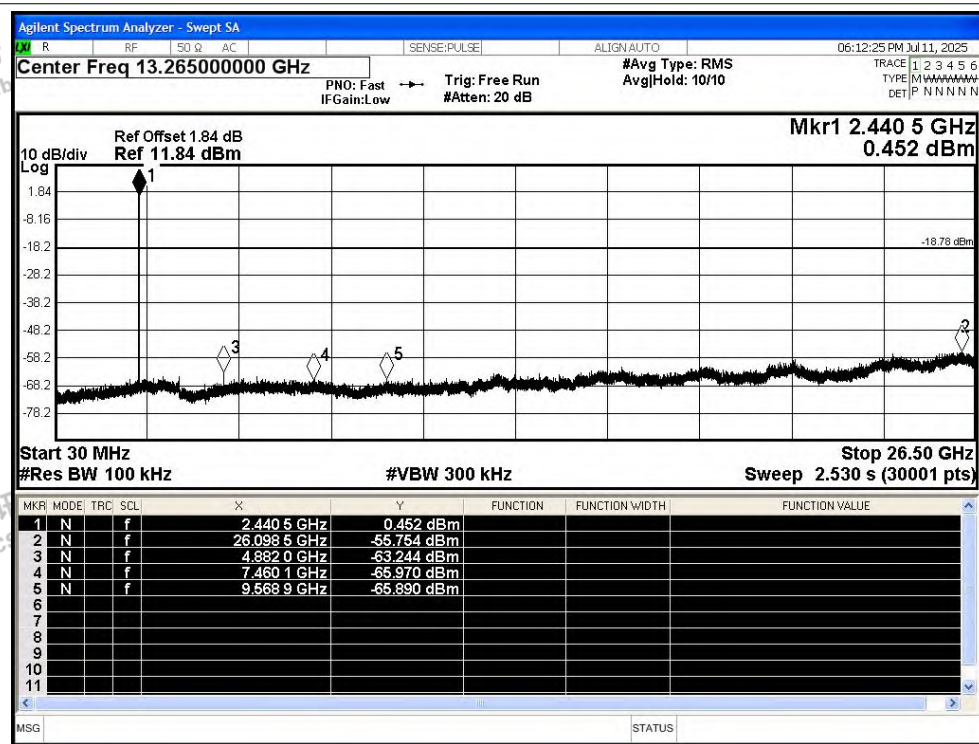
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Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



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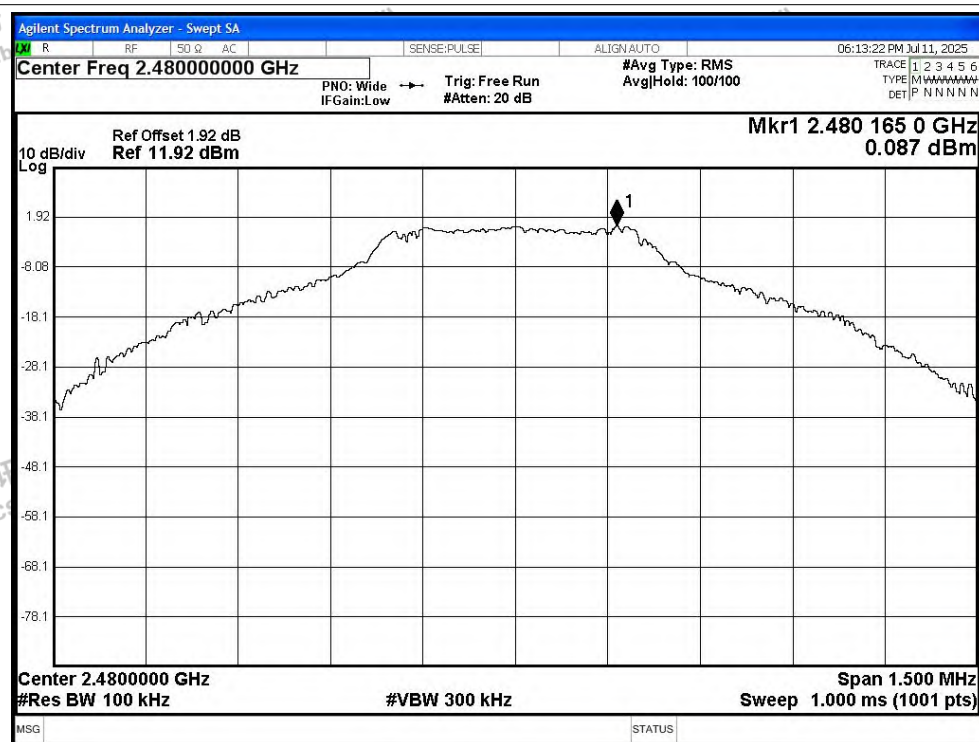
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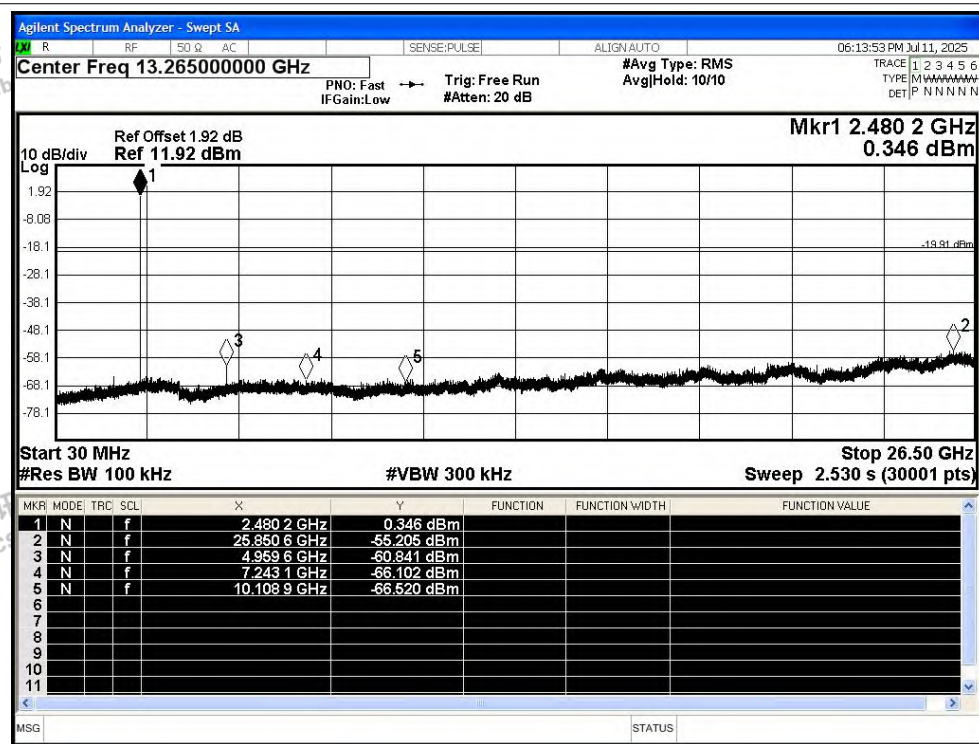
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Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



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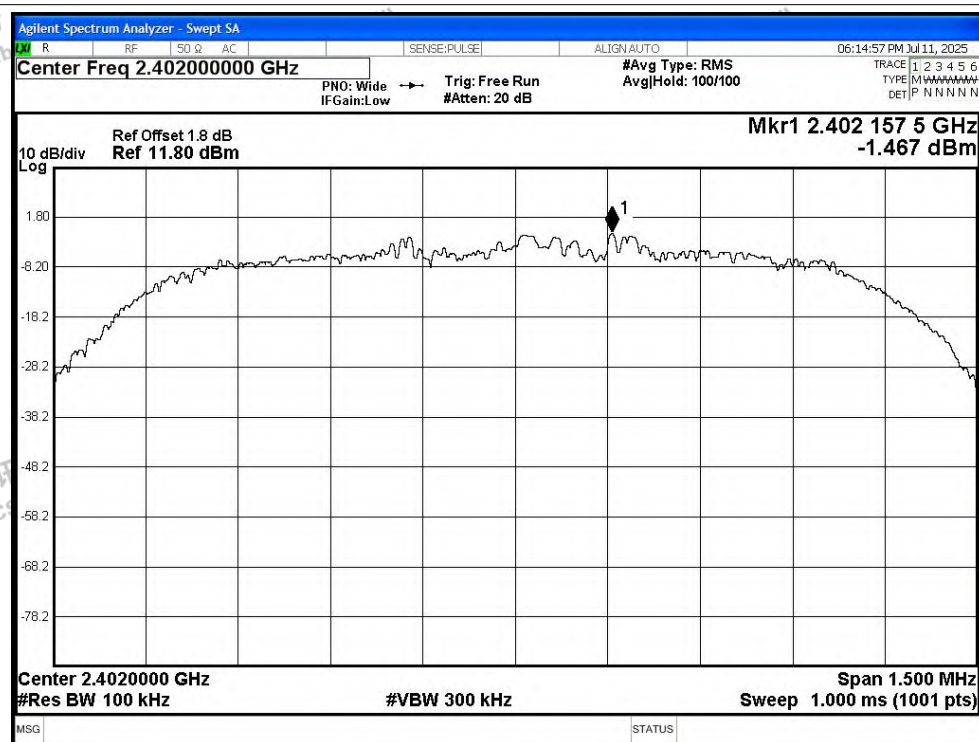
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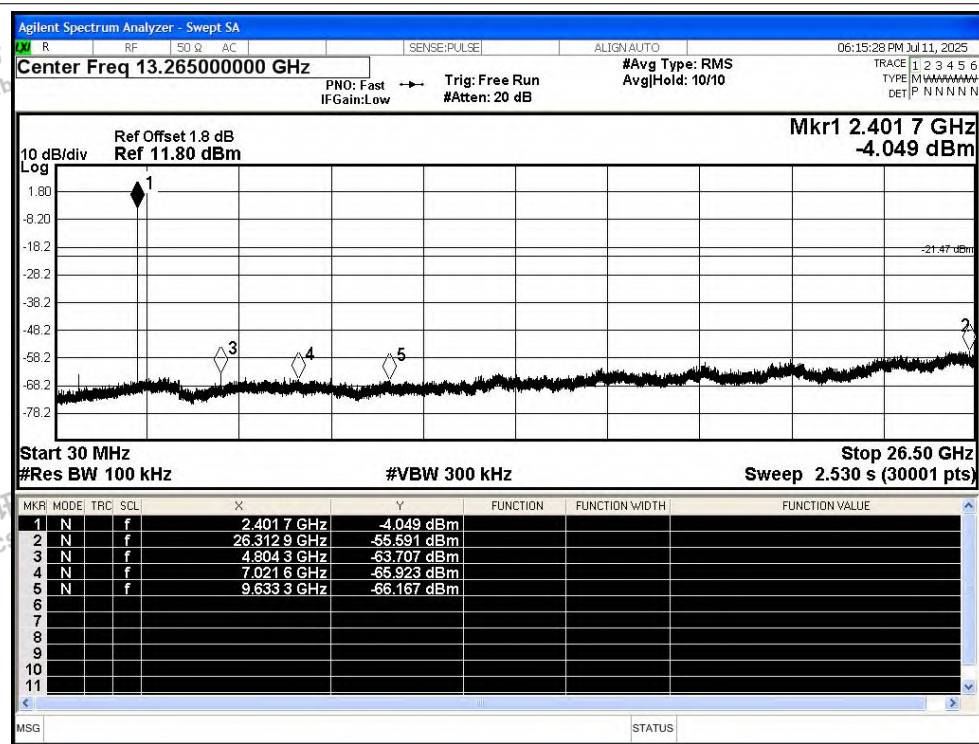
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Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



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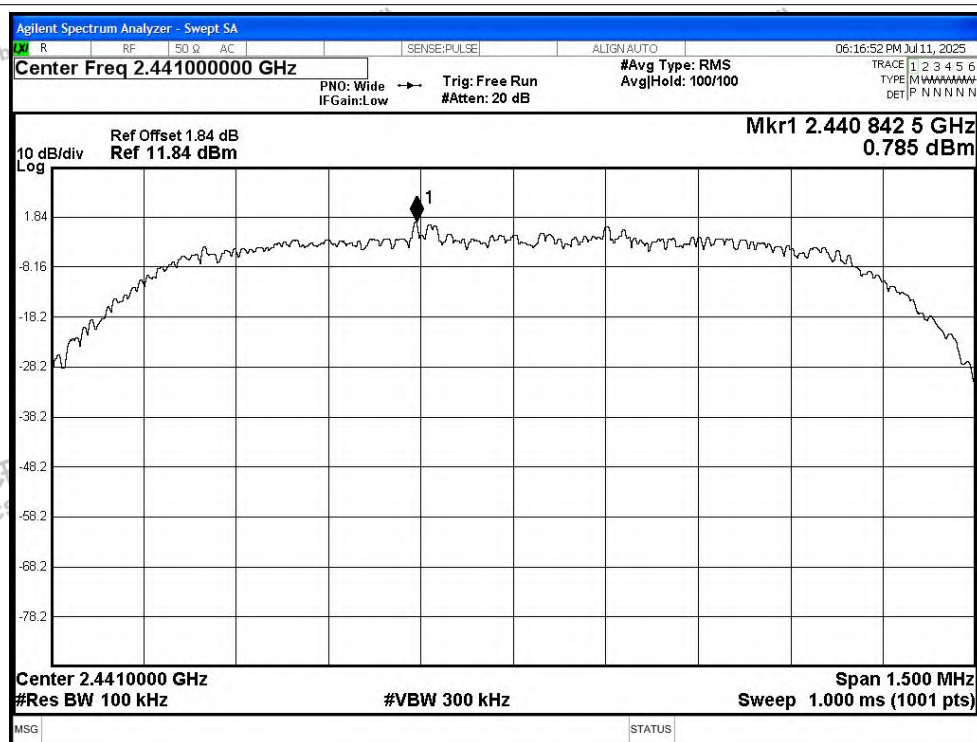
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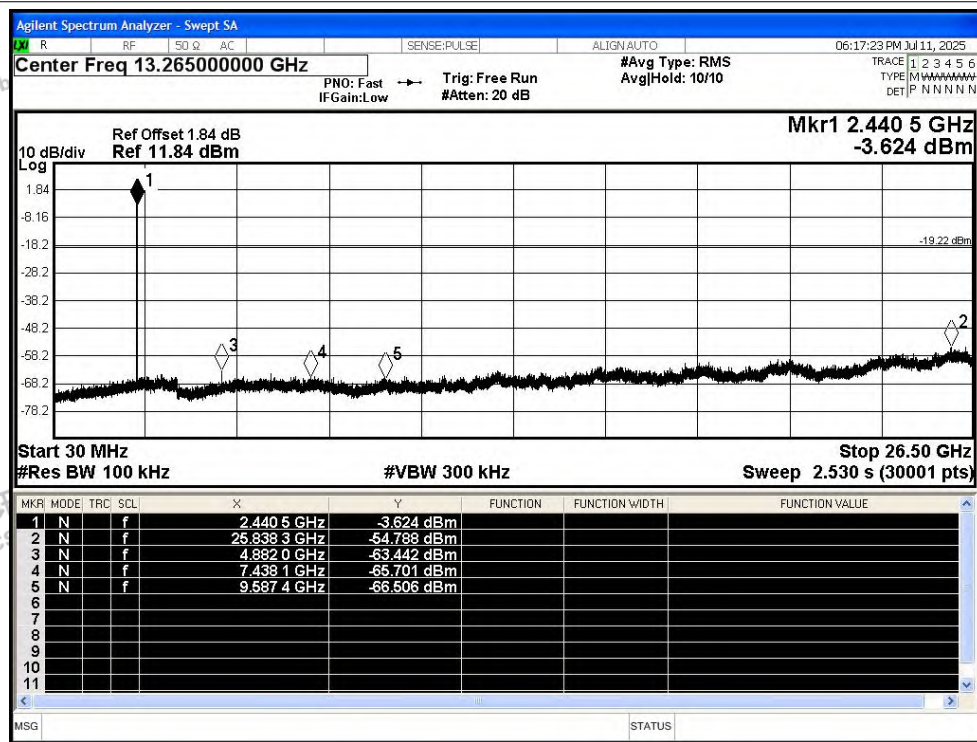
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



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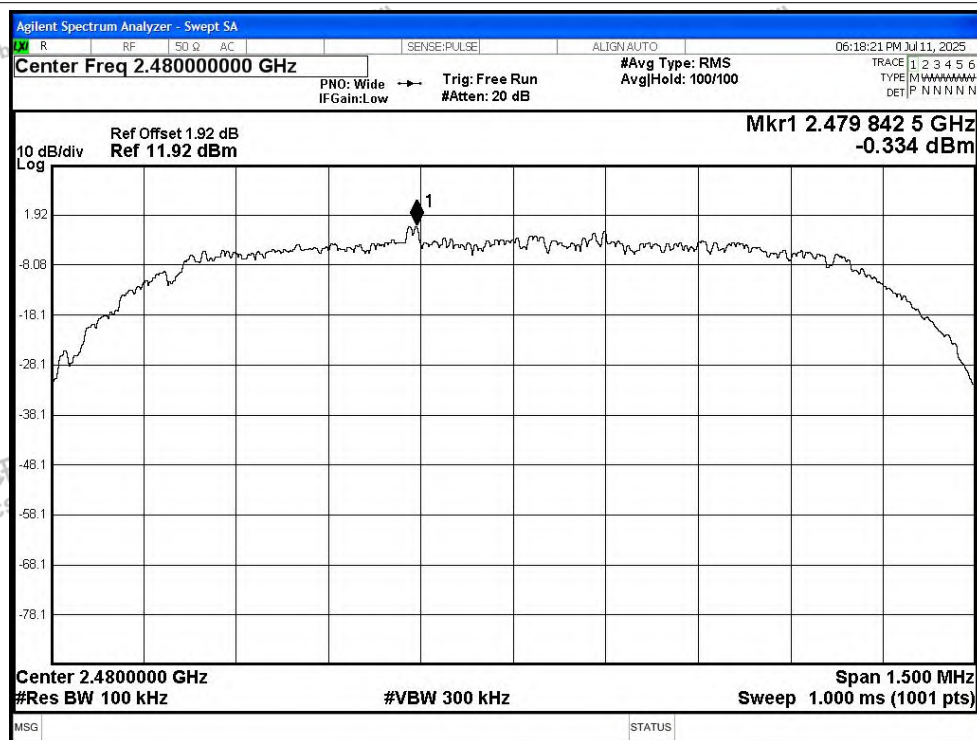
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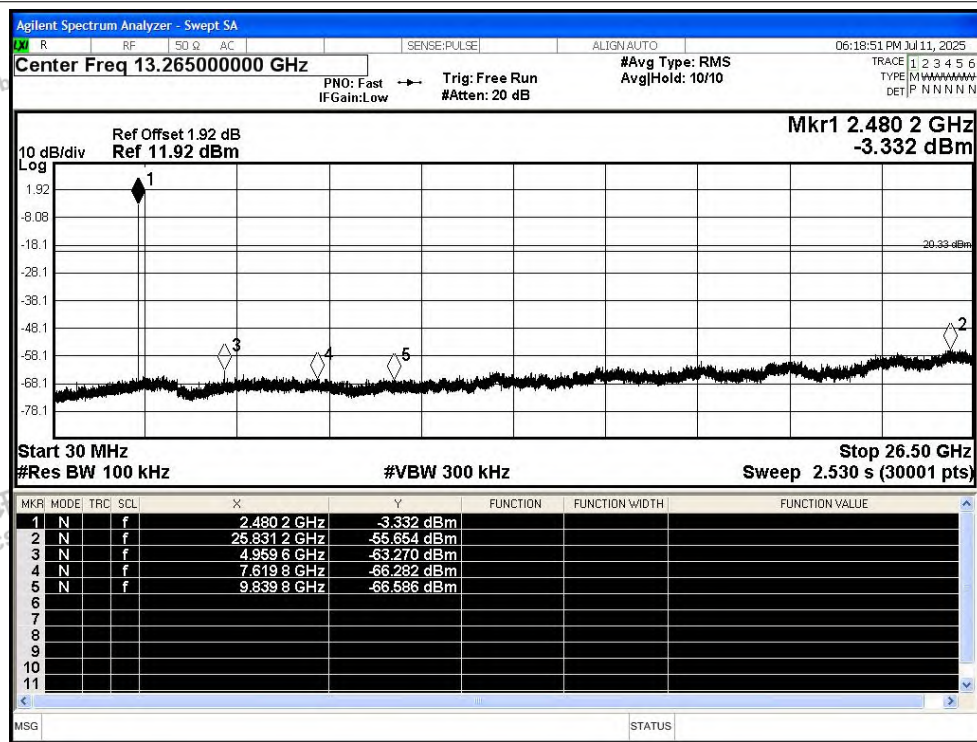
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Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



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A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.63	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.63	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	76.37	1.17	0.36
NVNT	2-DH5	2480	Ant1	56.57	2.47	0.49

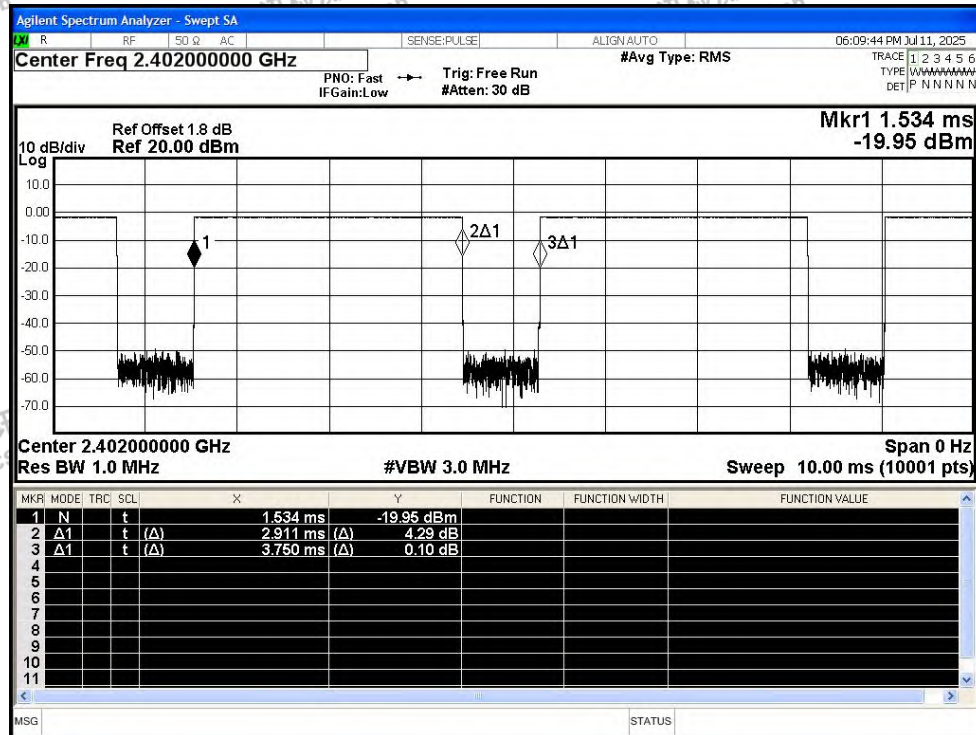


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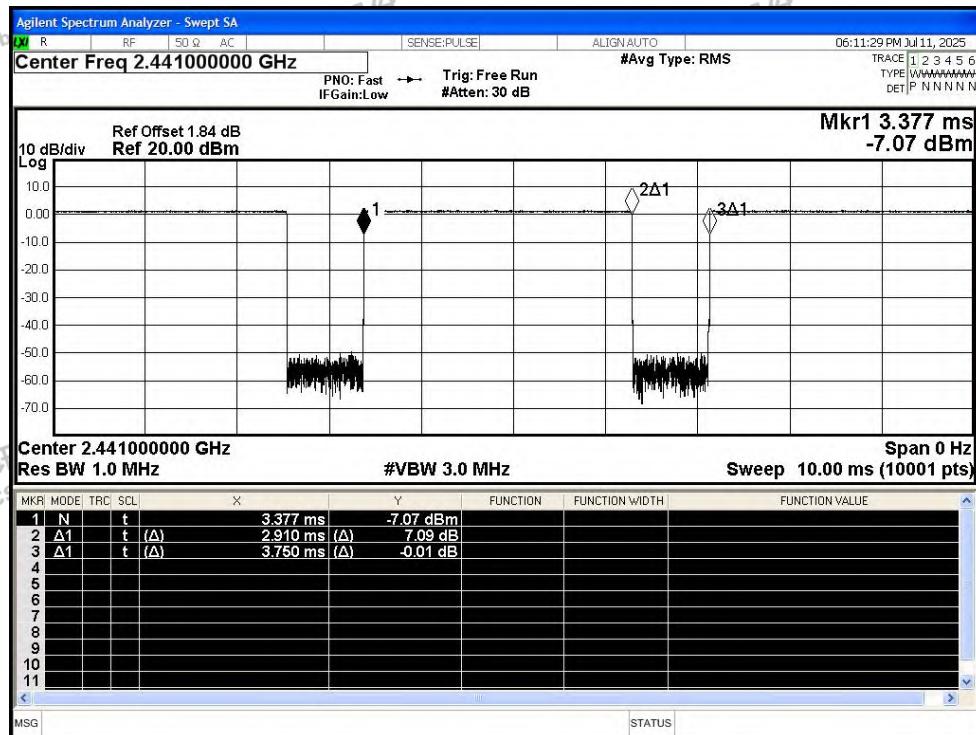


Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



Duty Cycle NVNT 1-DH5 2441MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

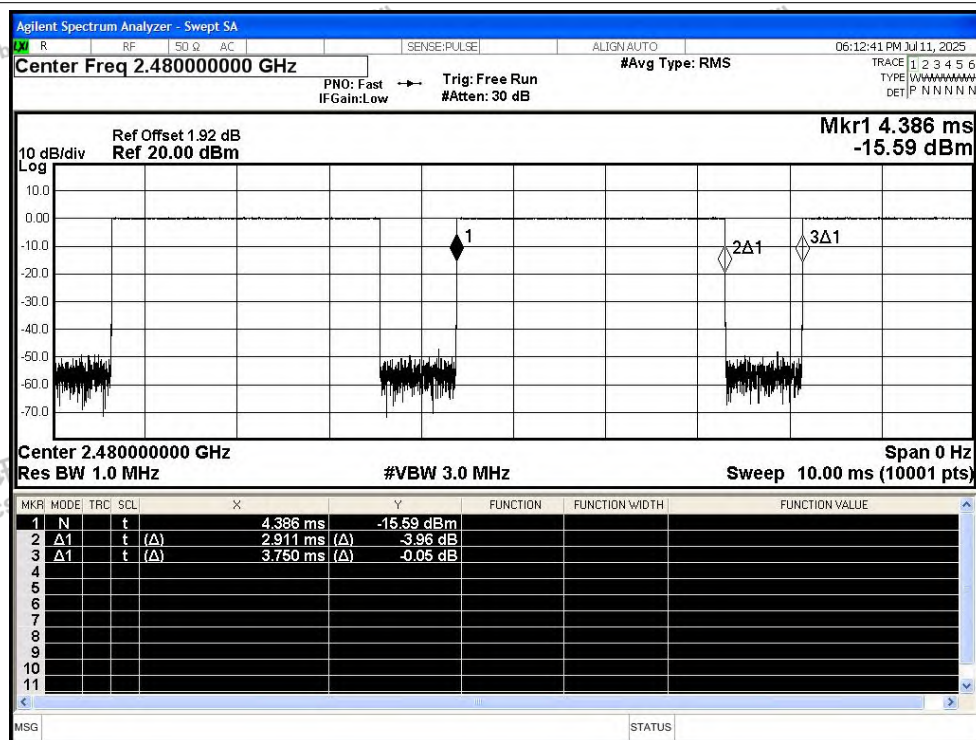
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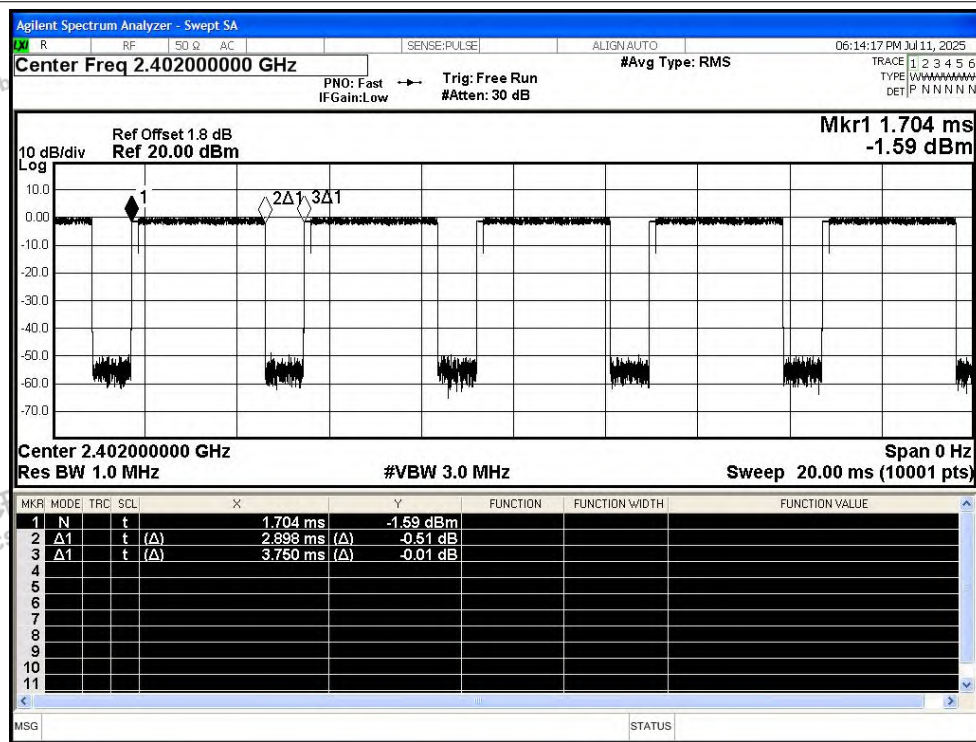
Scan code to check authenticity



Duty Cycle NVNT 1-DH5 2480MHz Ant1



Duty Cycle NVNT 2-DH5 2402MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

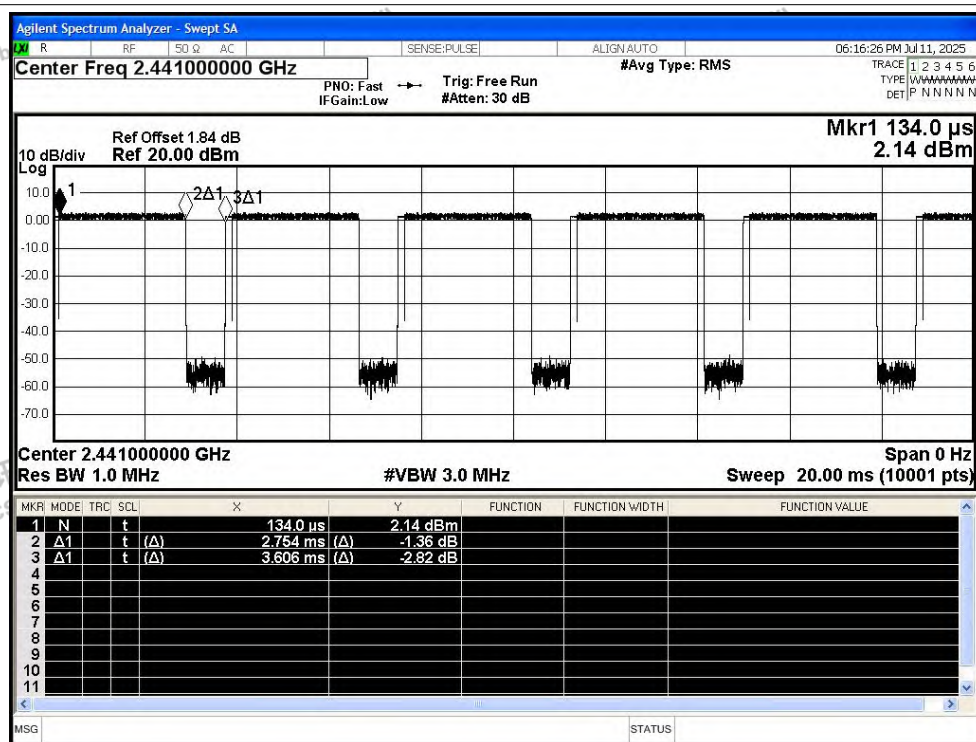
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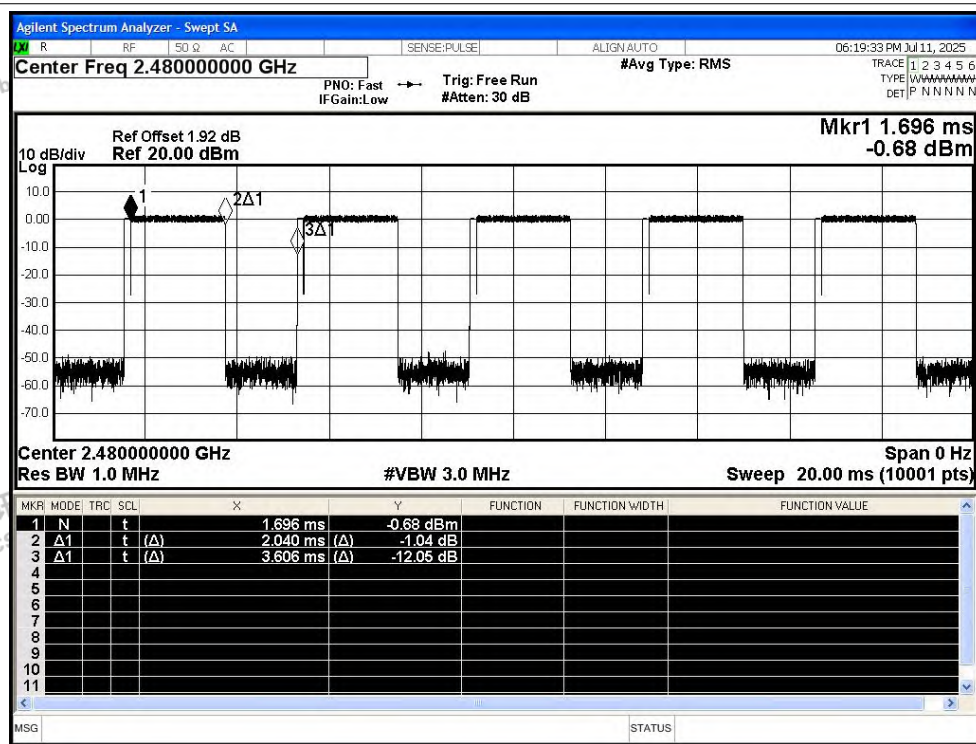
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Duty Cycle NVNT 2-DH5 2441MHz Ant1



Duty Cycle NVNT 2-DH5 2480MHz Ant1



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A.9 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.62	2	-	46.64	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-59.14	2	1.1	39.22	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2321.136	-47.76	2	-	49.5	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2368.56	-57.8	2	1.1	40.56	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.27	2	-	47.99	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.61	2	1.1	39.75	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.25	2	-	48.01	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.73	2	1.1	40.63	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.584	-44.35	2	-	52.91	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.944	-57.16	2	1.1	41.2	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-48.68	2	-	48.58	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.53	2	1.1	39.83	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.97	2	-	46.29	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-59.42	2	1.12	38.96	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2381.232	-48.27	2	-	48.99	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2355.12	-57.81	2	1.12	40.57	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.27	2	-	46.99	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-59.29	2	1.12	39.09	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.59	2	-	48.67	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-56.87	2	0.12	40.51	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2485	-45.1	2	-	52.16	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.512	-56.87	2	0.12	40.51	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.65	2	-	46.61	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.08	2	0.12	39.3	Average	54	Pass



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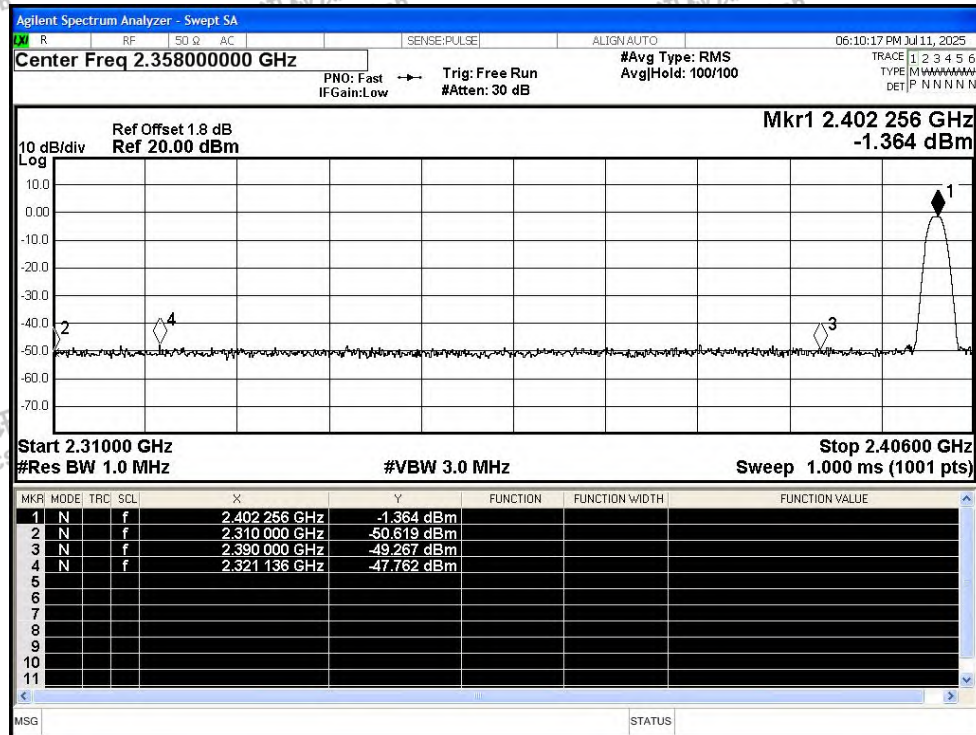
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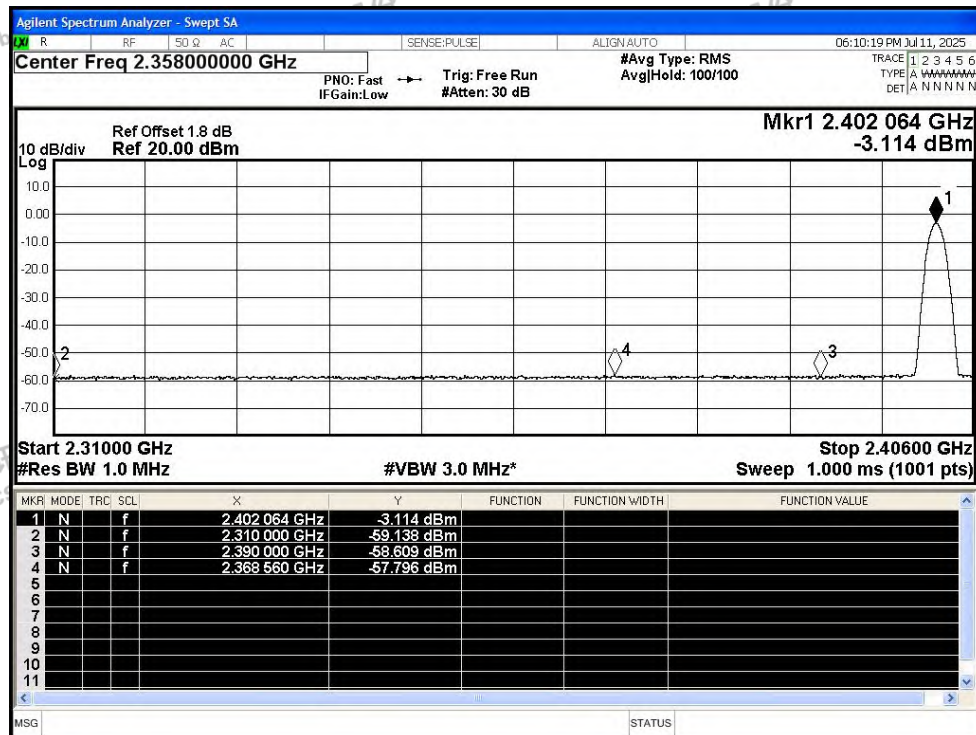


Test Graphs

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.

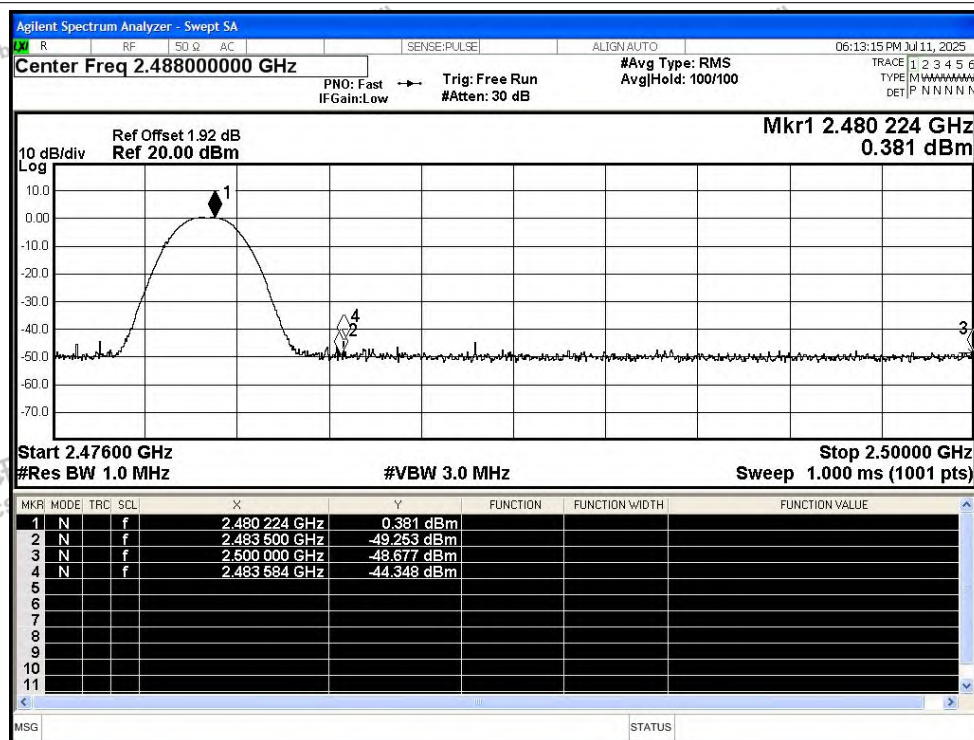
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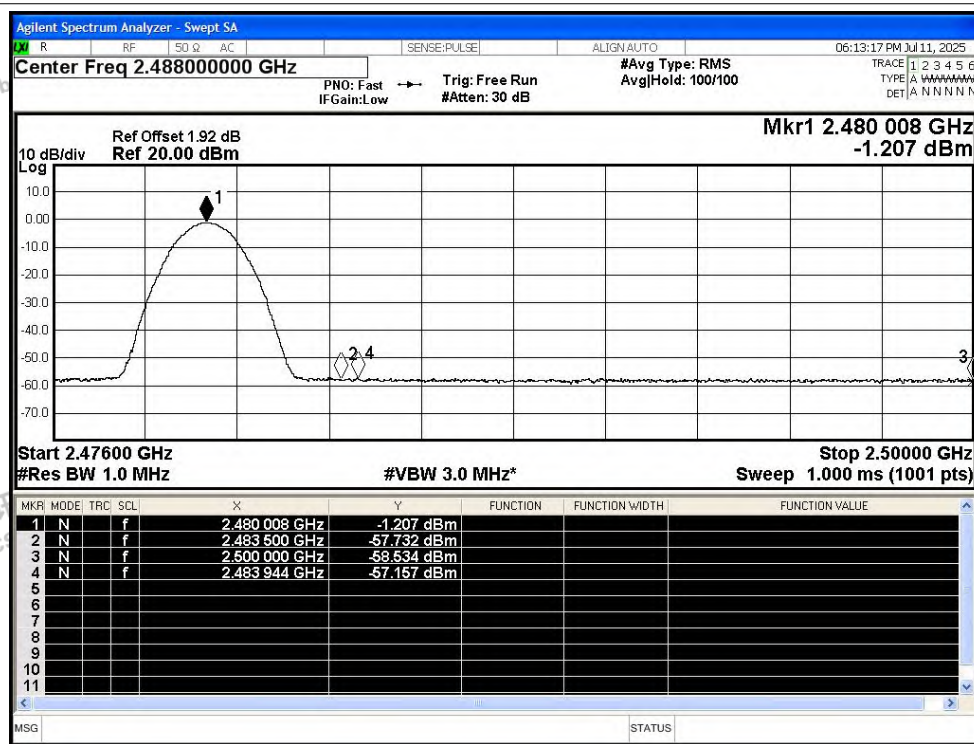
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Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

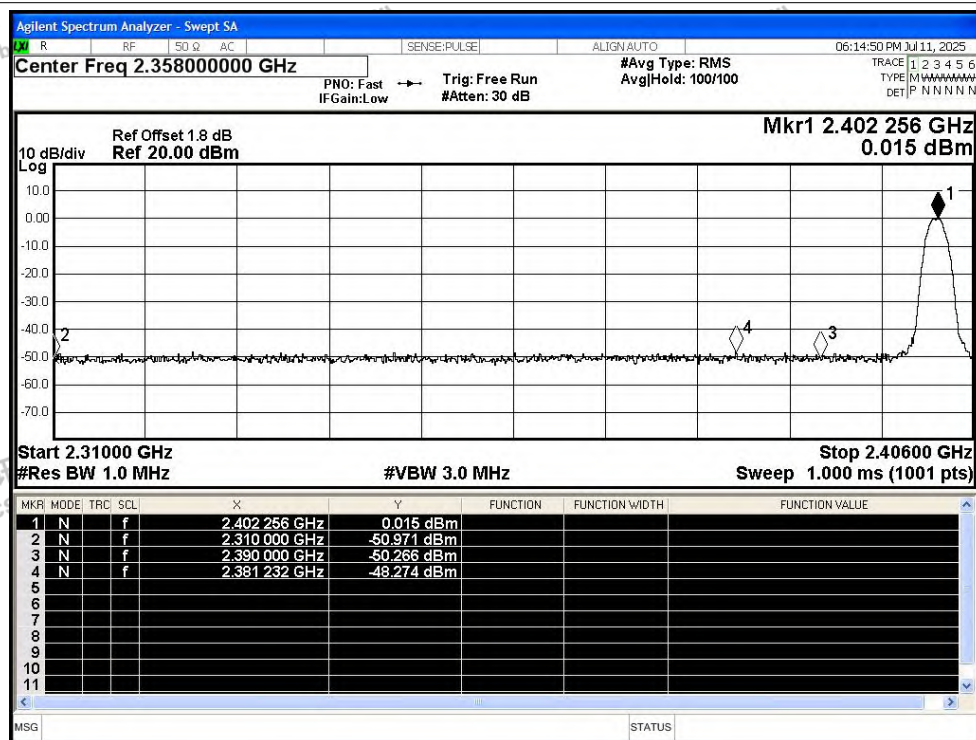
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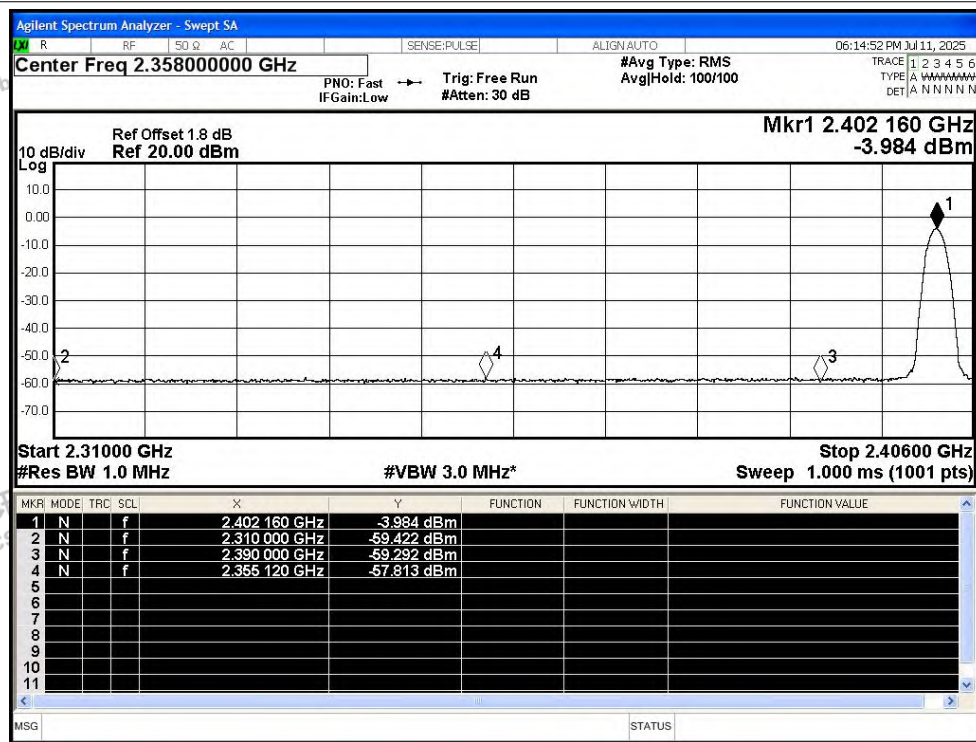
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Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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



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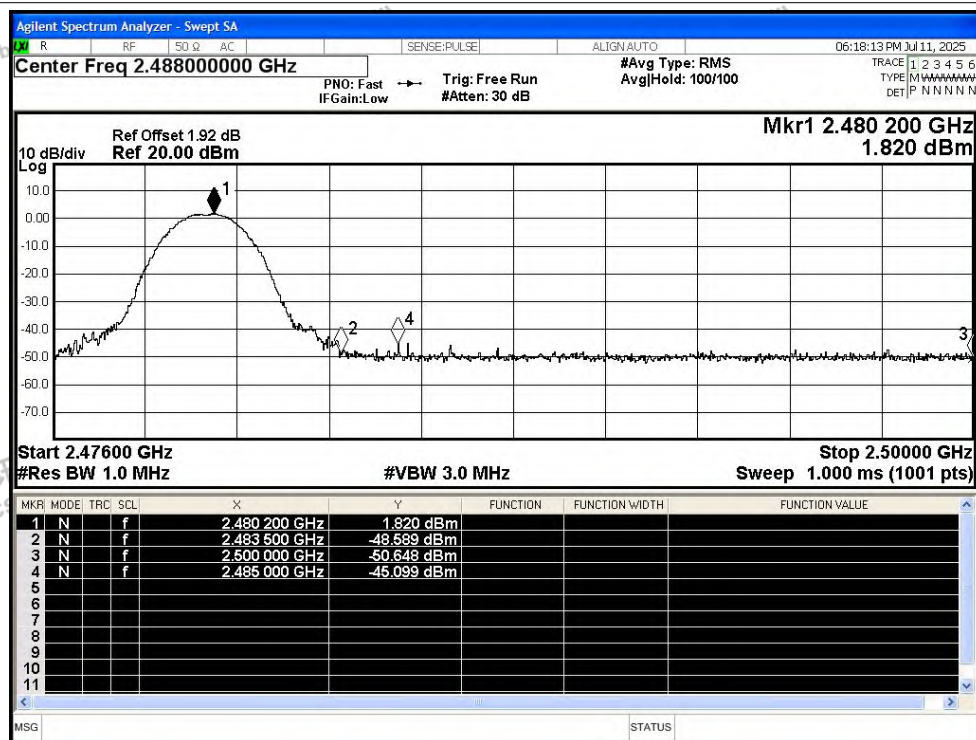
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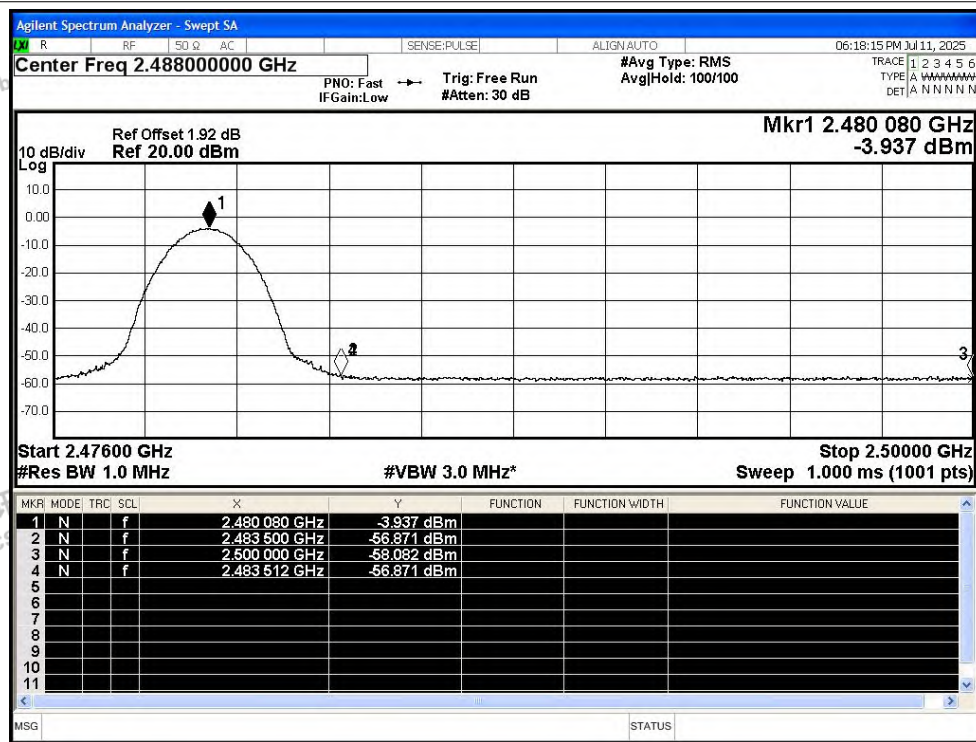
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Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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



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