



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: LCD PROJECTOR

Test Model: L009BQ

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Summer Wu
Supervised by:	Nick Peng





A.1 -20dB Bandwidth

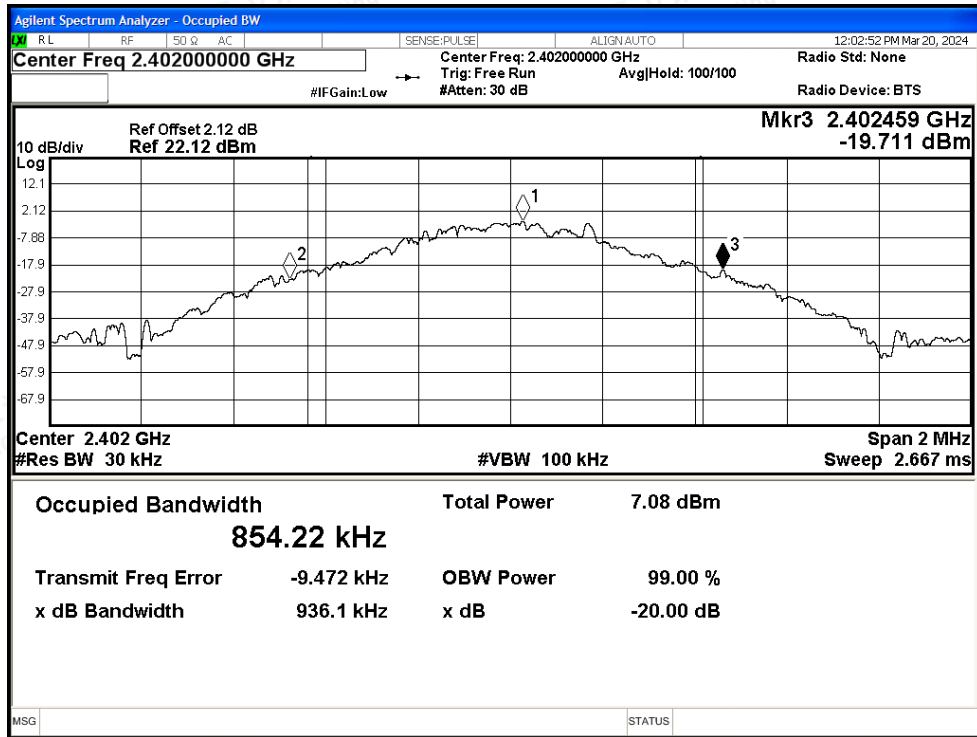
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	BT ANT	0.936	N/A	Pass
NVNT	1-DH5	2441	BT ANT	0.95	N/A	Pass
NVNT	1-DH5	2480	BT ANT	0.956	N/A	Pass
NVNT	2-DH5	2402	BT ANT	1.277	N/A	Pass
NVNT	2-DH5	2441	BT ANT	1.283	N/A	Pass
NVNT	2-DH5	2480	BT ANT	1.285	N/A	Pass
NVNT	3-DH5	2402	BT ANT	1.316	N/A	Pass
NVNT	3-DH5	2441	BT ANT	1.306	N/A	Pass
NVNT	3-DH5	2480	BT ANT	1.294	N/A	Pass





Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz BT ANT

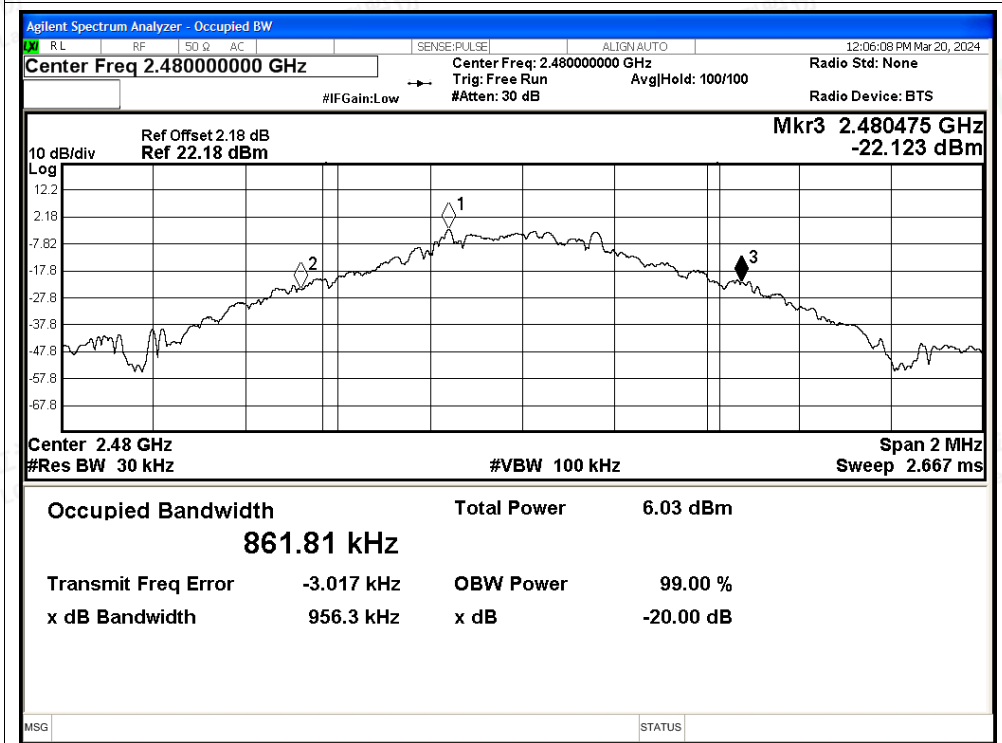


-20dB Bandwidth NVNT 1-DH5 2441MHz BT ANT

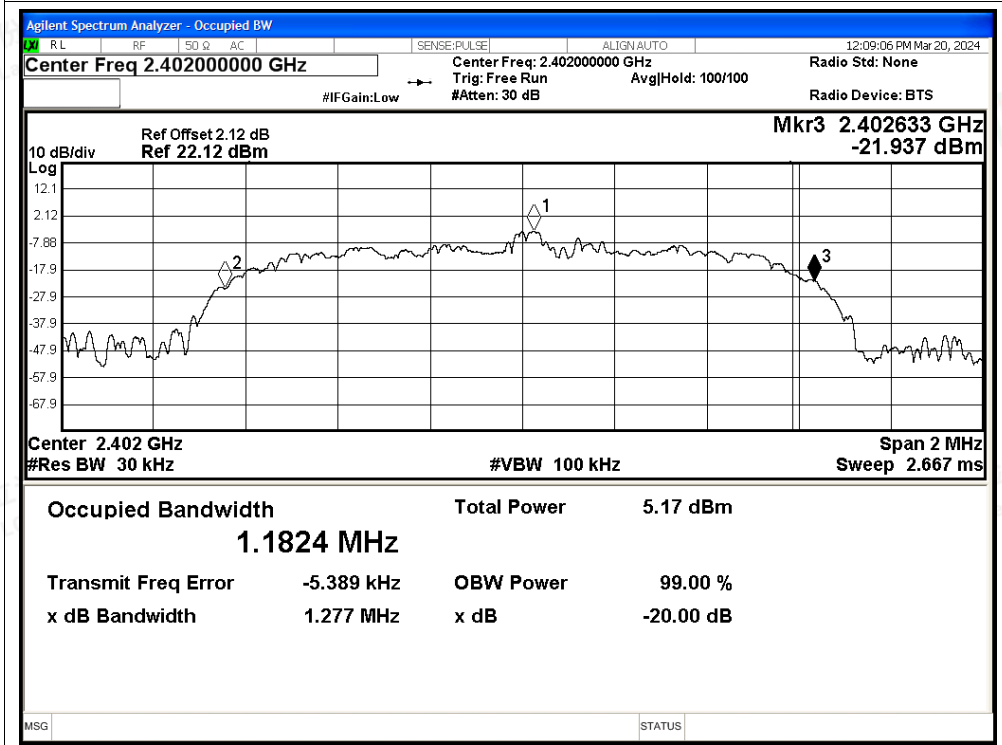




-20dB Bandwidth NVNT 1-DH5 2480MHz BT ANT

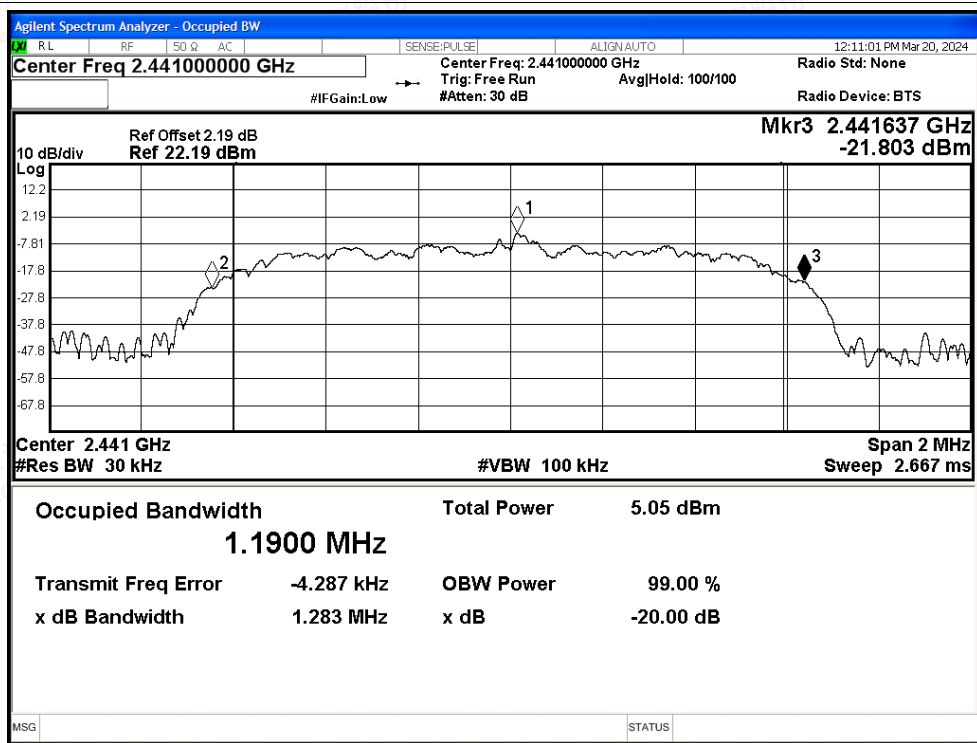


-20dB Bandwidth NVNT 2-DH5 2402MHz BT ANT

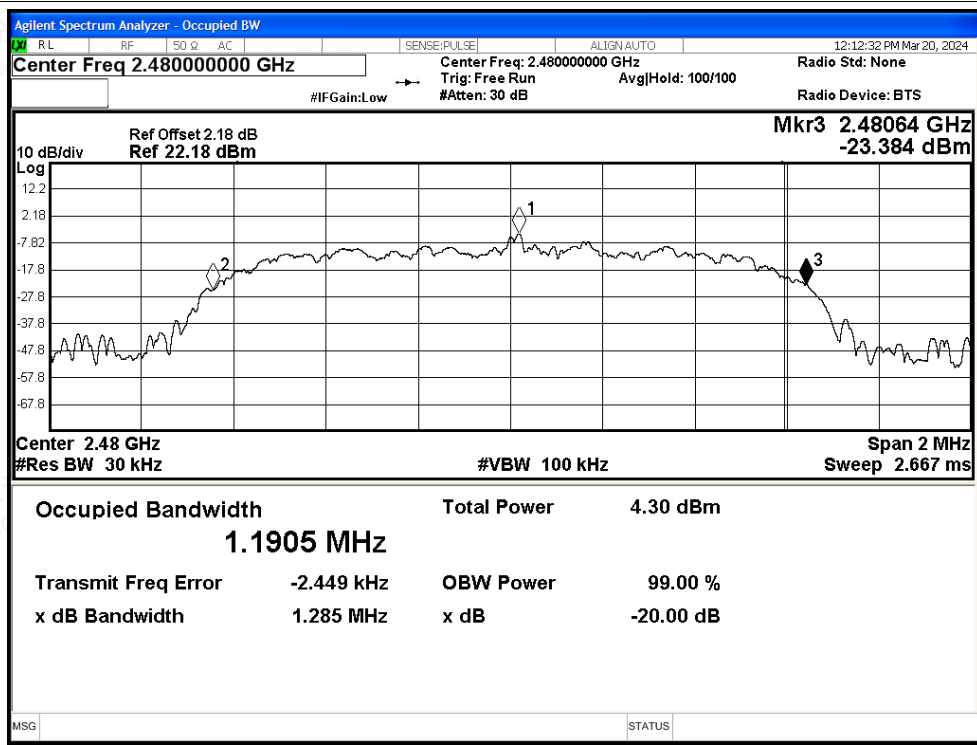




-20dB Bandwidth NVNT 2-DH5 2441MHz BT ANT

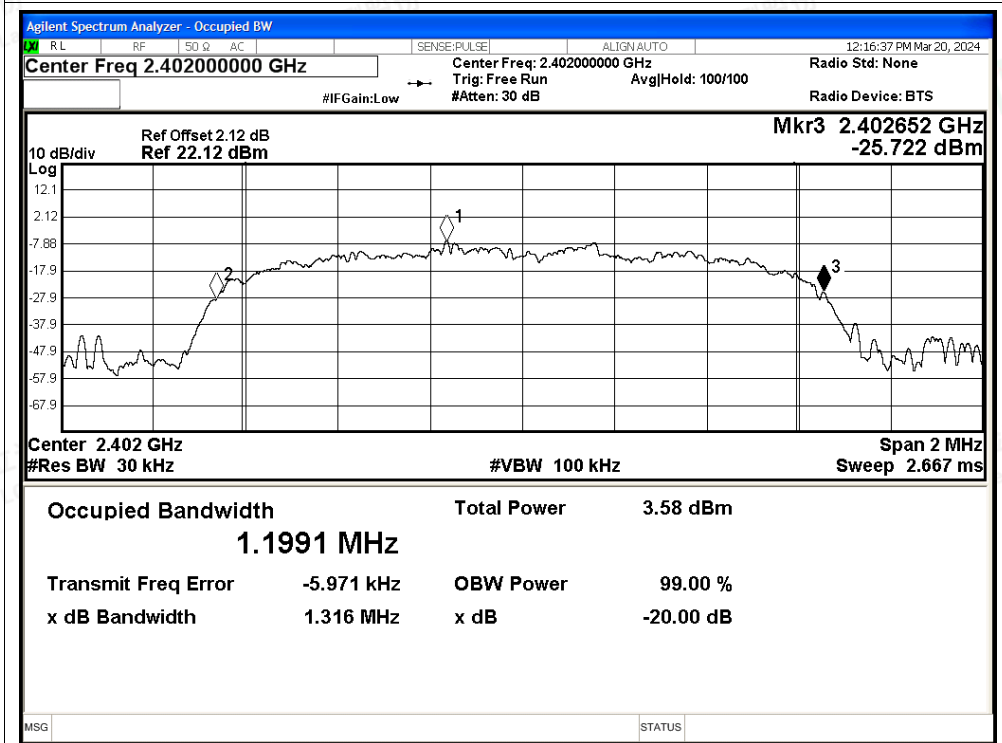


-20dB Bandwidth NVNT 2-DH5 2480MHz BT ANT

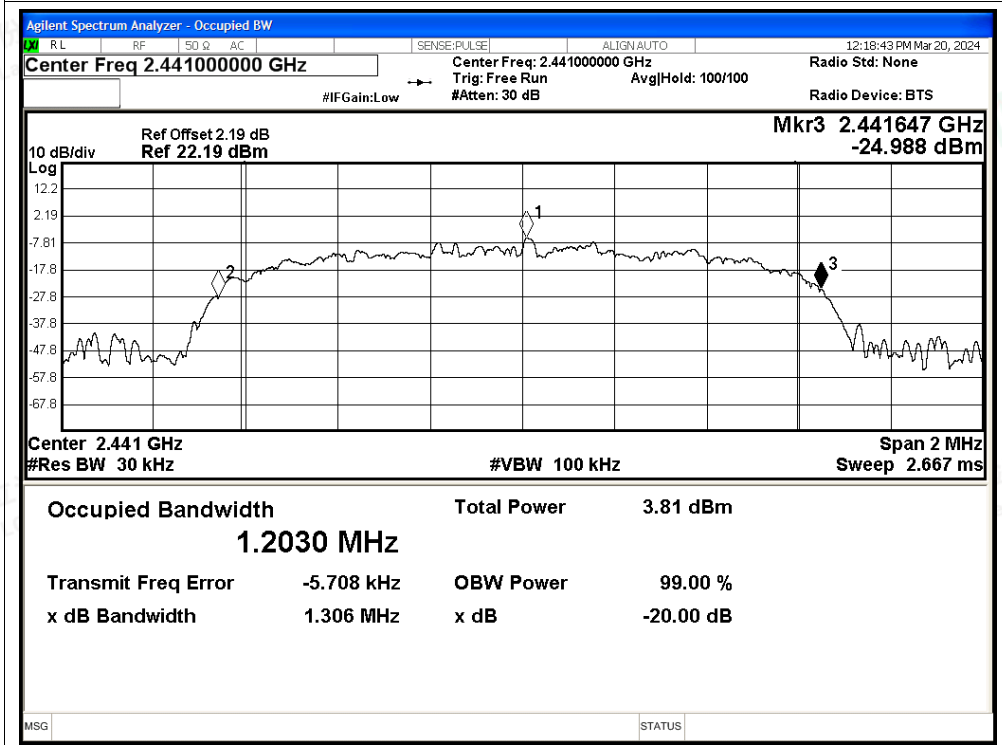


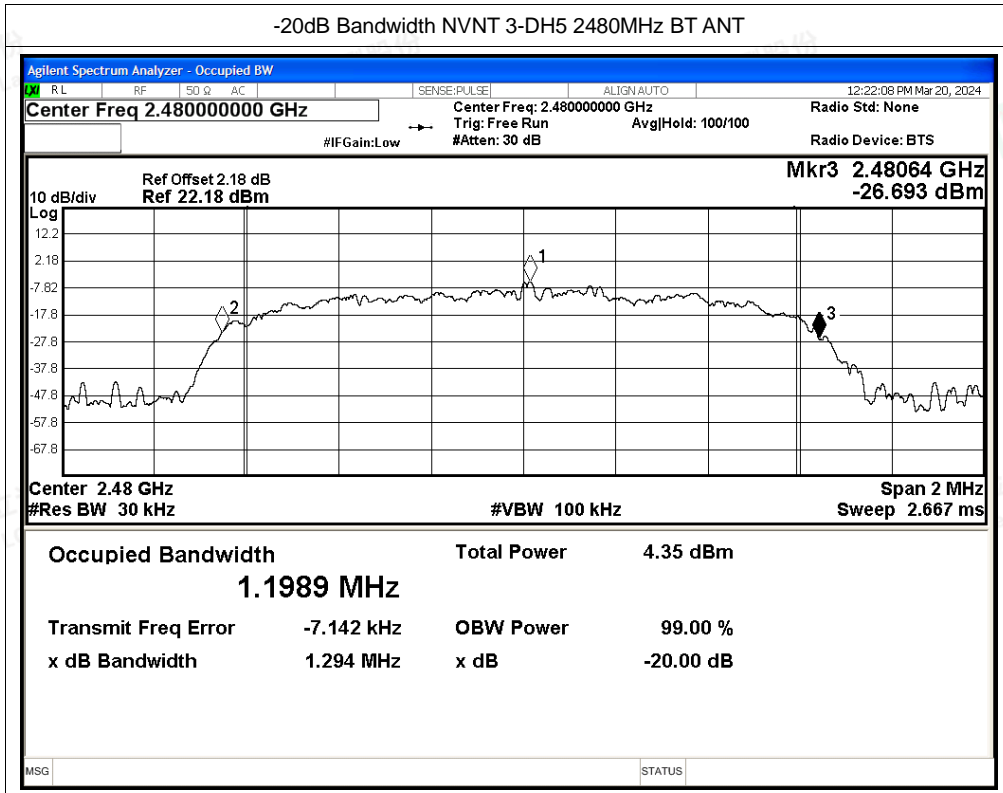


-20dB Bandwidth NVNT 3-DH5 2402MHz BT ANT



-20dB Bandwidth NVNT 3-DH5 2441MHz BT ANT







A.2 Maximum Peak Conducted Output Power

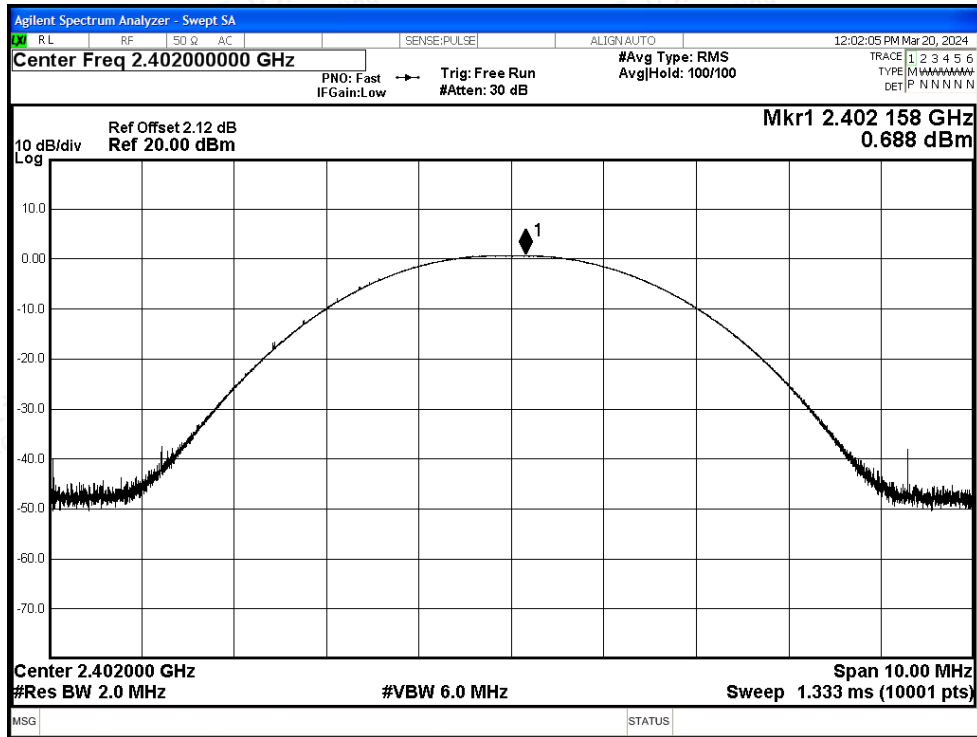
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	BT ANT	0.69	21	Pass
NVNT	1-DH5	2441	BT ANT	0.83	21	Pass
NVNT	1-DH5	2480	BT ANT	-0.55	21	Pass
NVNT	2-DH5	2402	BT ANT	0.71	21	Pass
NVNT	2-DH5	2441	BT ANT	0.93	21	Pass
NVNT	2-DH5	2480	BT ANT	0.18	21	Pass
NVNT	3-DH5	2402	BT ANT	-0.03	21	Pass
NVNT	3-DH5	2441	BT ANT	-0.01	21	Pass
NVNT	3-DH5	2480	BT ANT	0.56	21	Pass



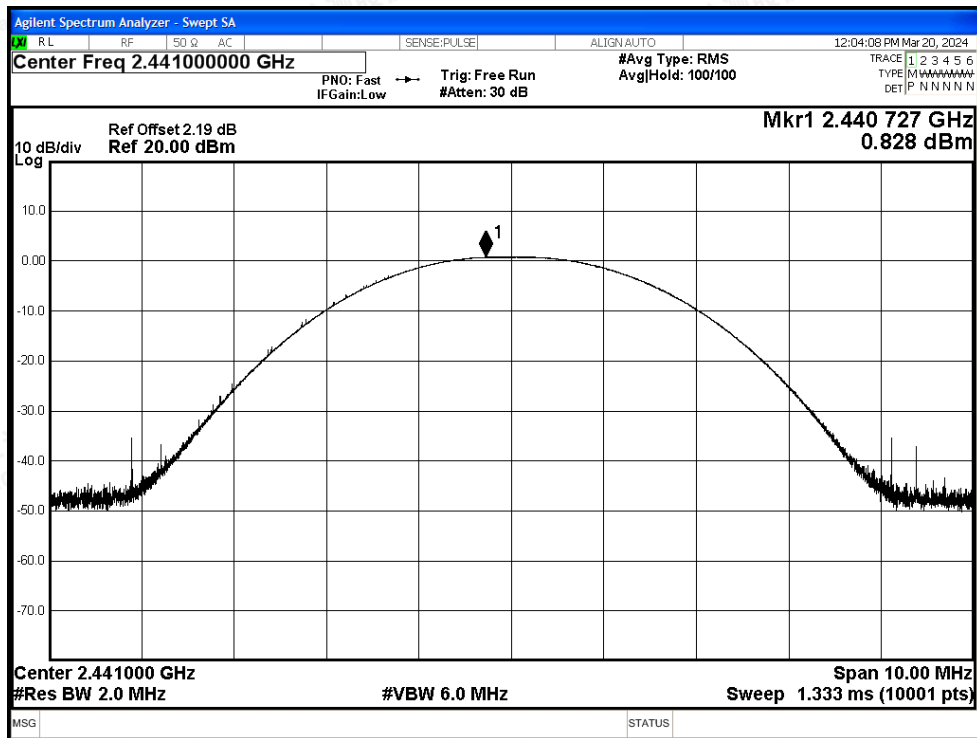


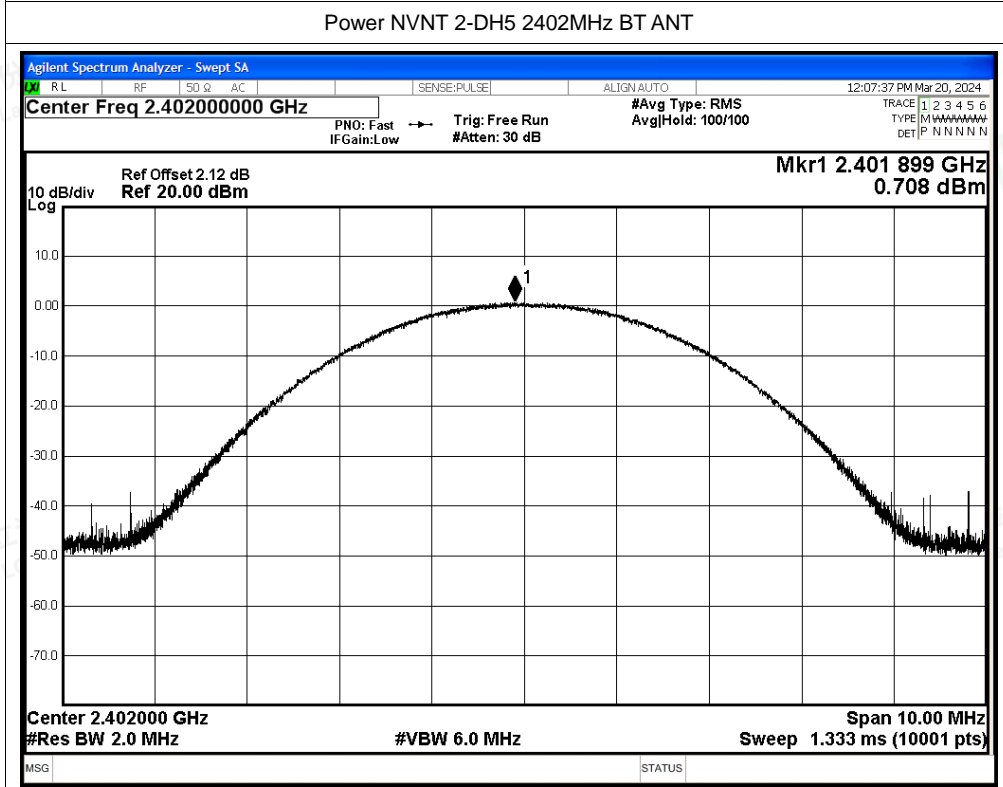
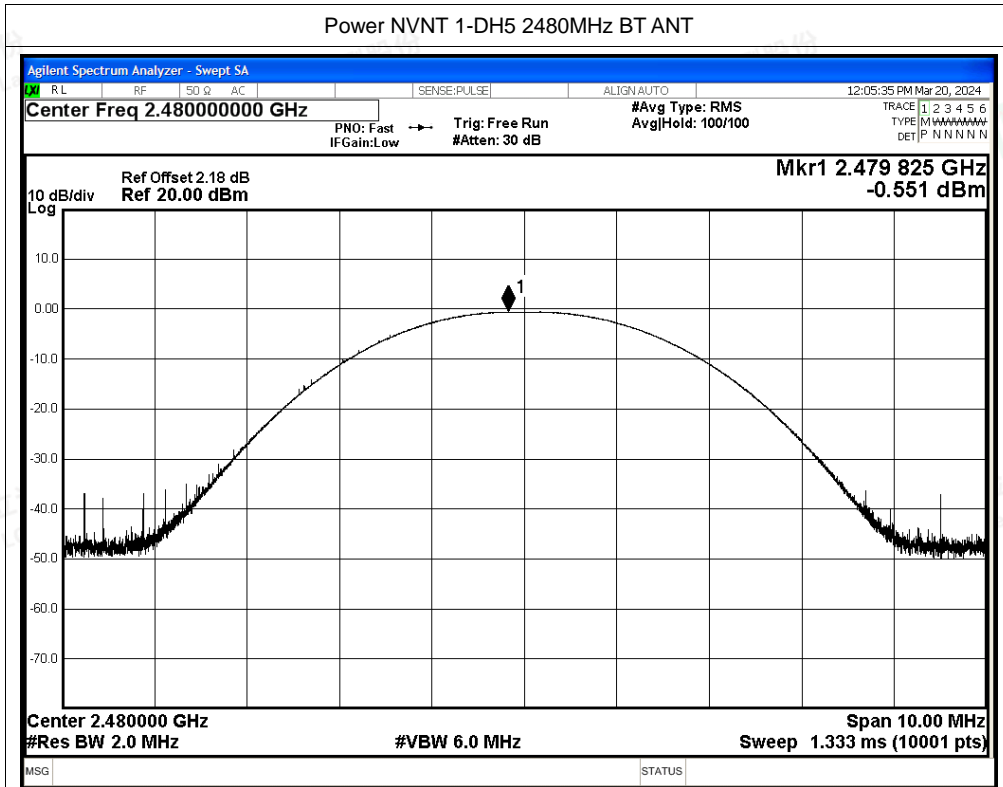
Test Graphs

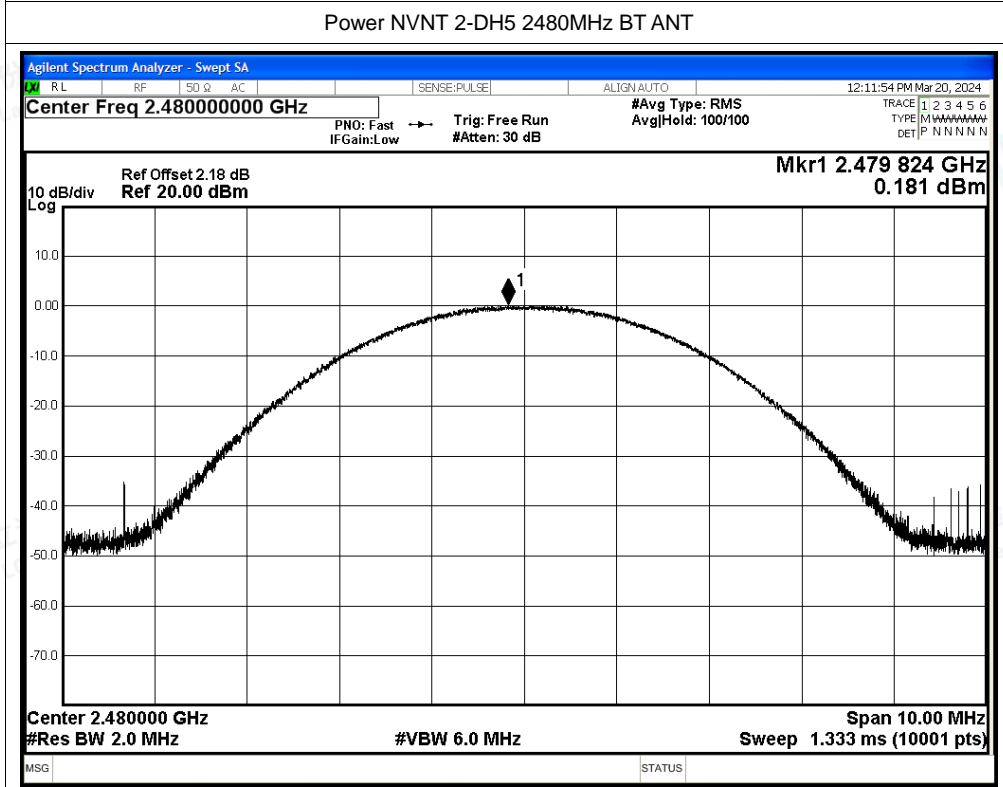
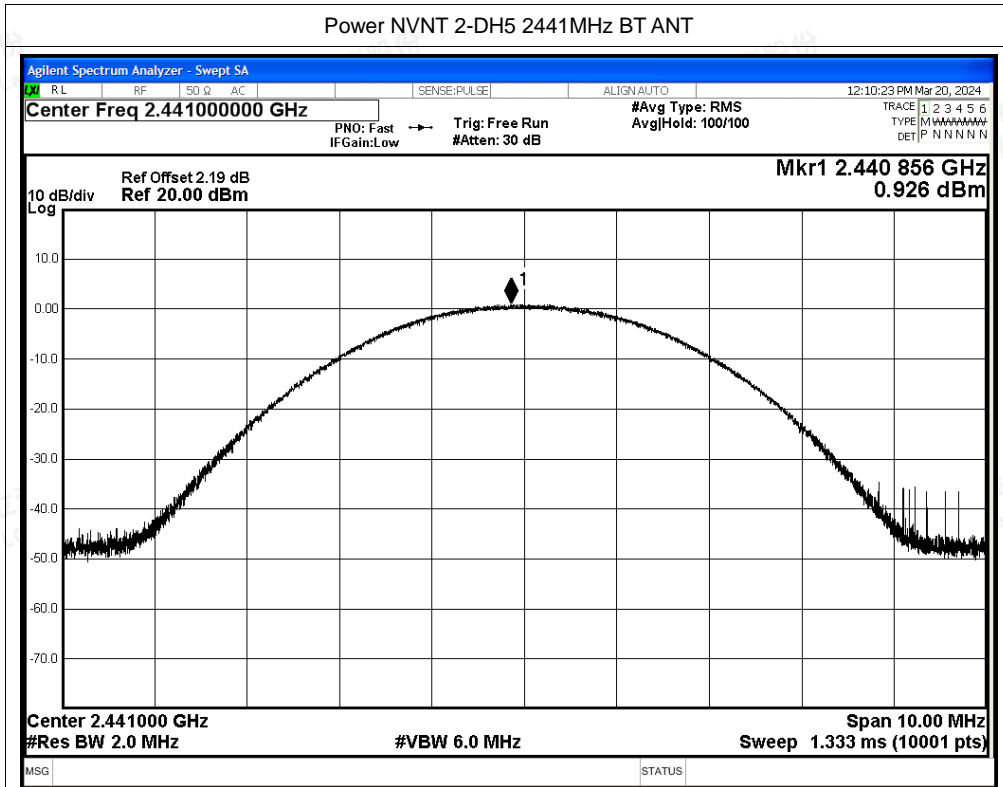
Power NVNT 1-DH5 2402MHz BT ANT

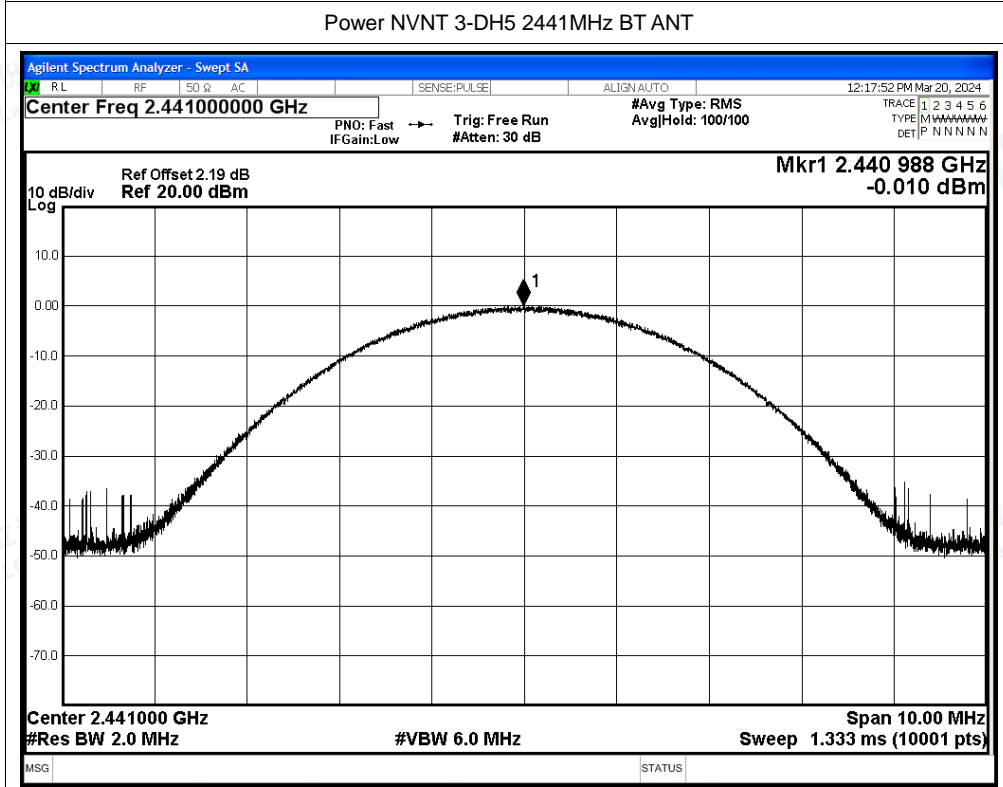
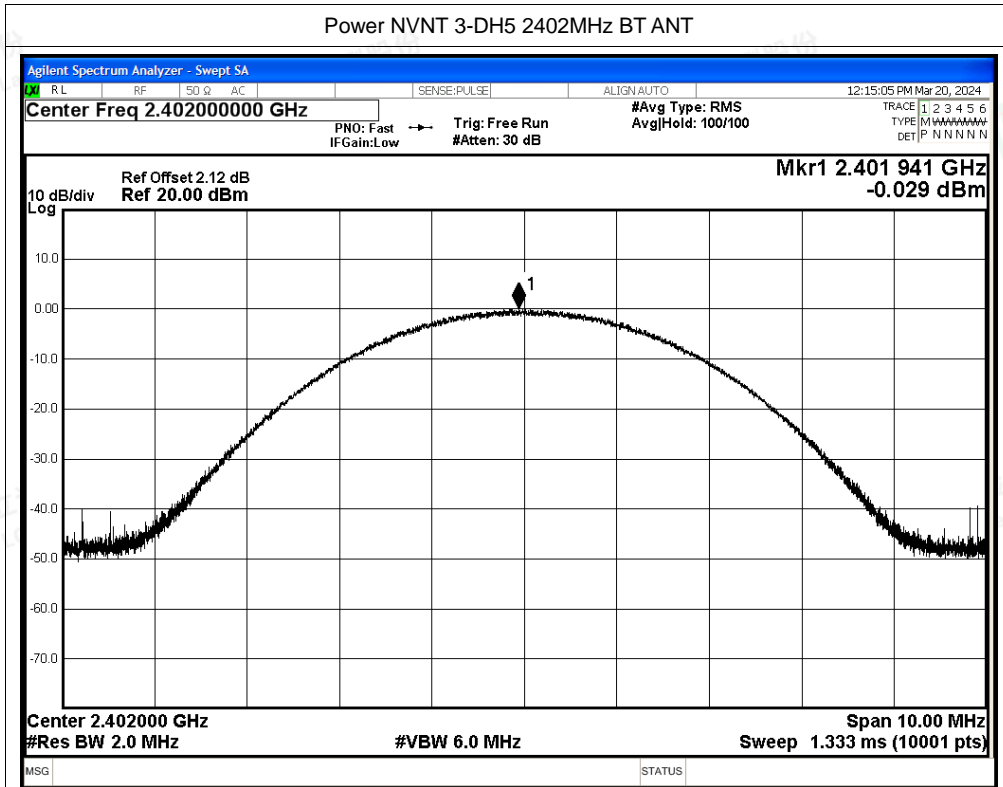


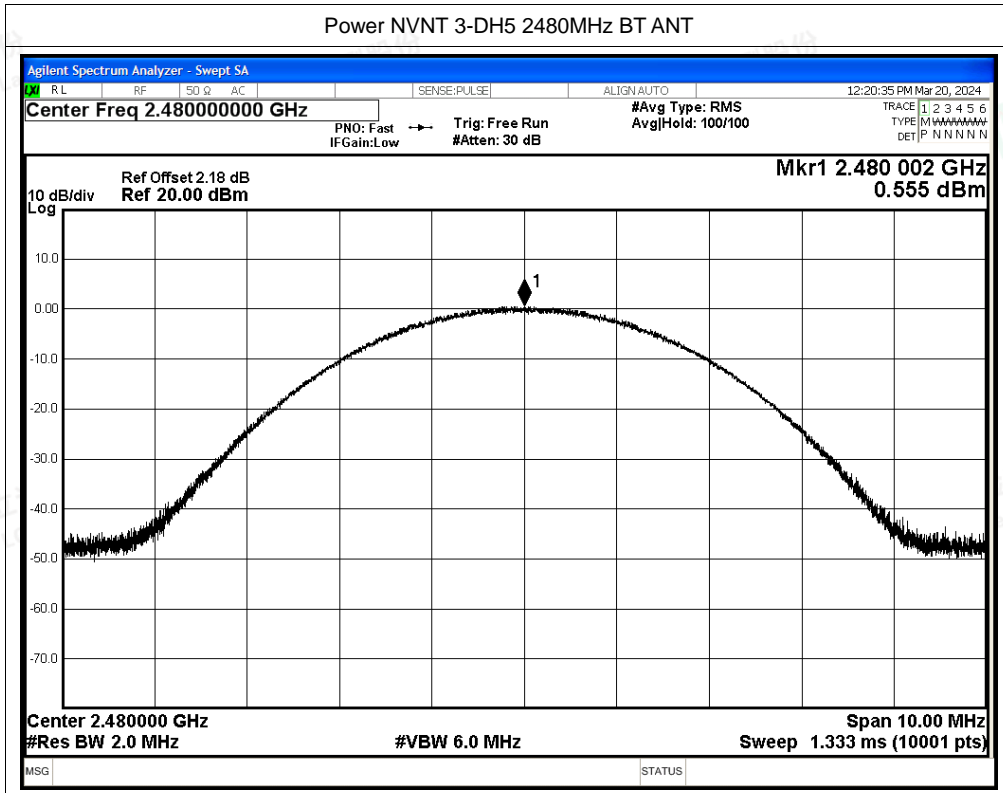
Power NVNT 1-DH5 2441MHz BT ANT













A.3 Carrier Frequencies Separation

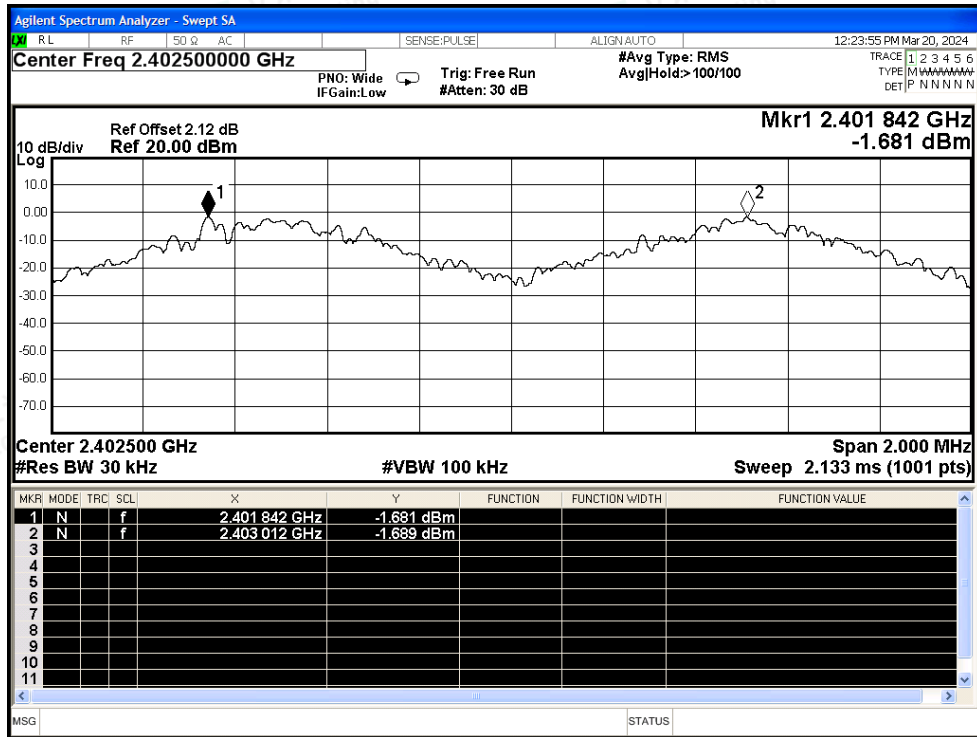
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	BT ANT	2401.842	2403.012	1.17	0.637	Pass
NVNT	2-DH5	BT ANT	2402.024	2403.02	0.996	0.857	Pass
NVNT	3-DH5	BT ANT	2401.998	2403.168	1.17	0.877	Pass



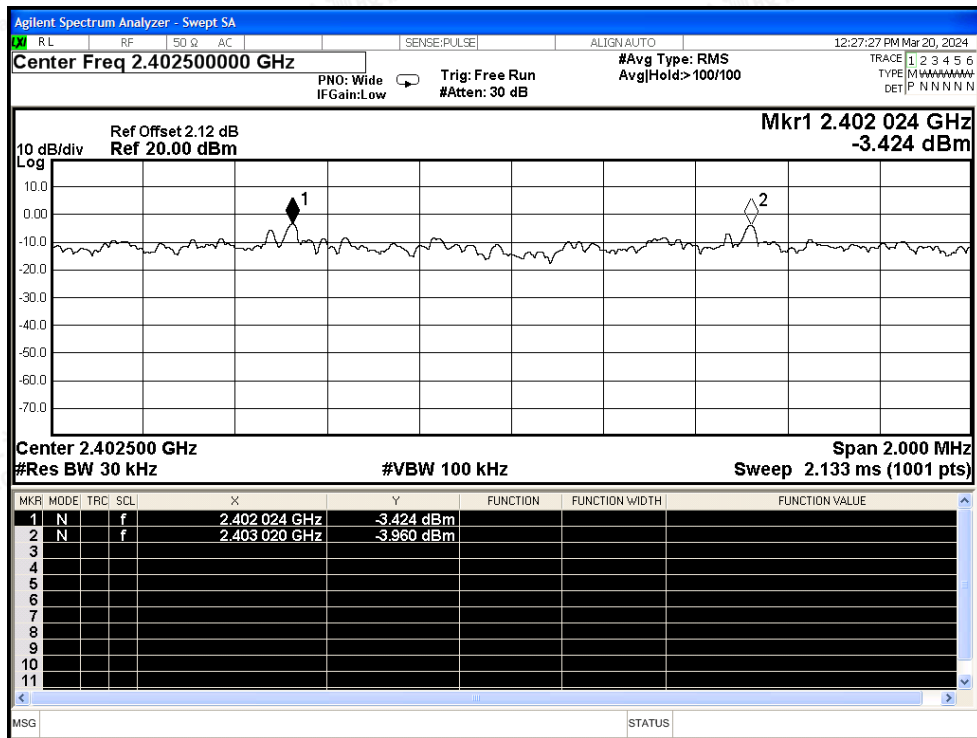


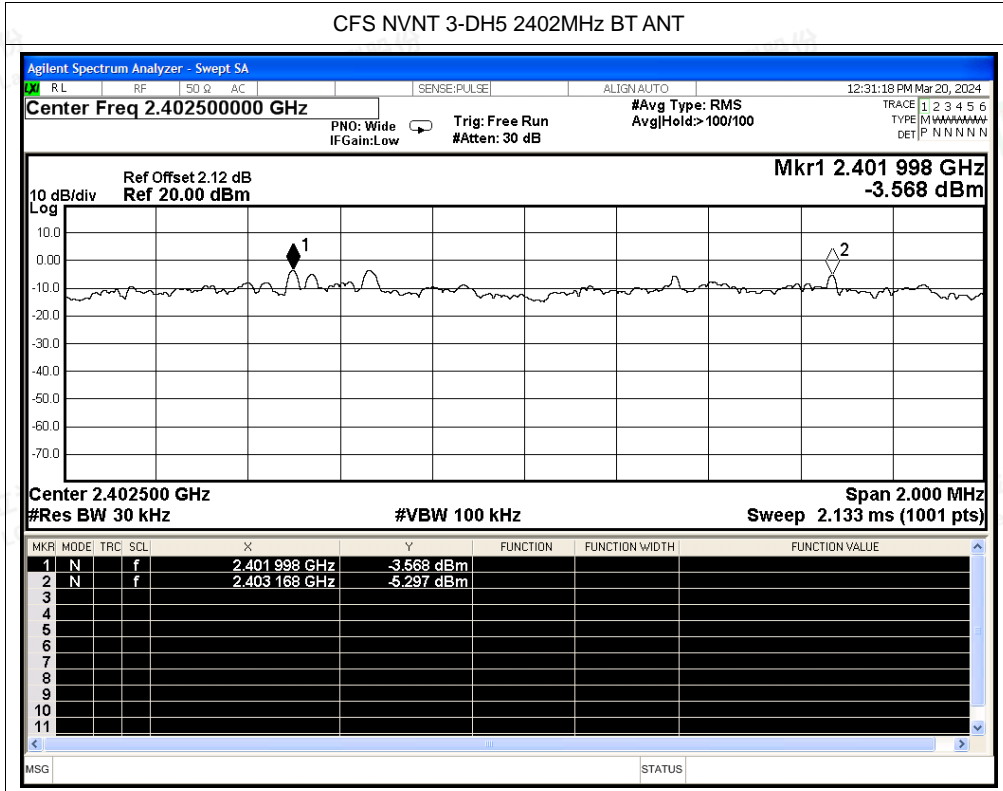
Test Graphs

CFS NVNT 1-DH5 2402MHz BT ANT



CFS NVNT 2-DH5 2402MHz BT ANT







A.4 Dwell Time

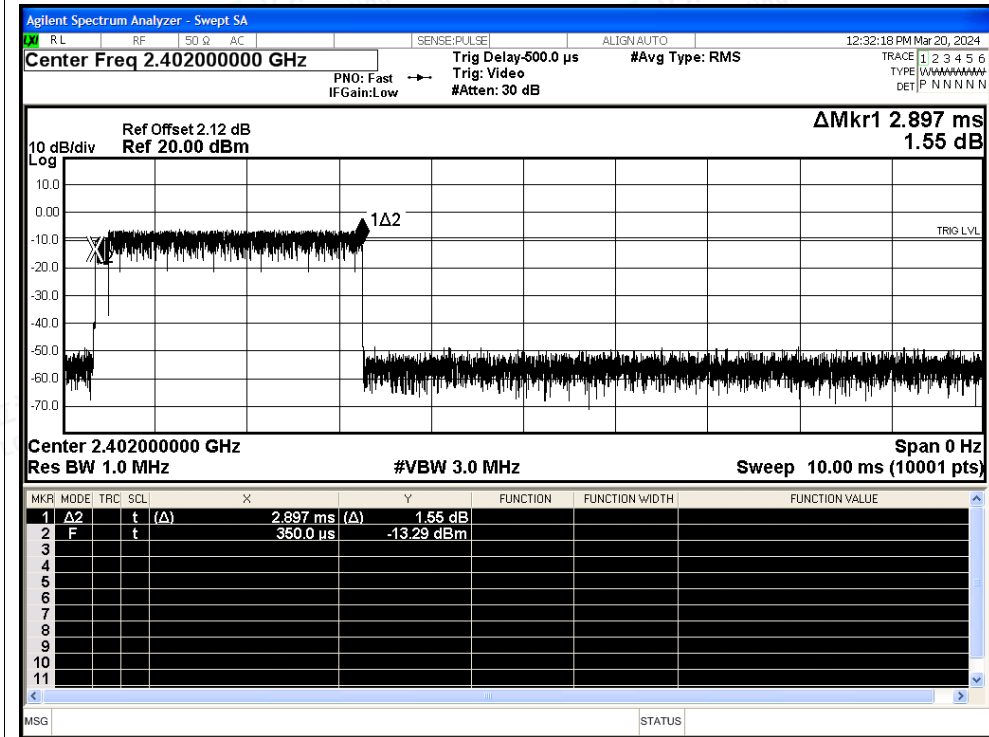
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	BT ANT	2.897	333.155	115	31600	400	Pass
NVNT	2-DH5	2402	BT ANT	2.898	295.596	102	31600	400	Pass
NVNT	3-DH5	2402	BT ANT	2.897	292.597	101	31600	400	Pass



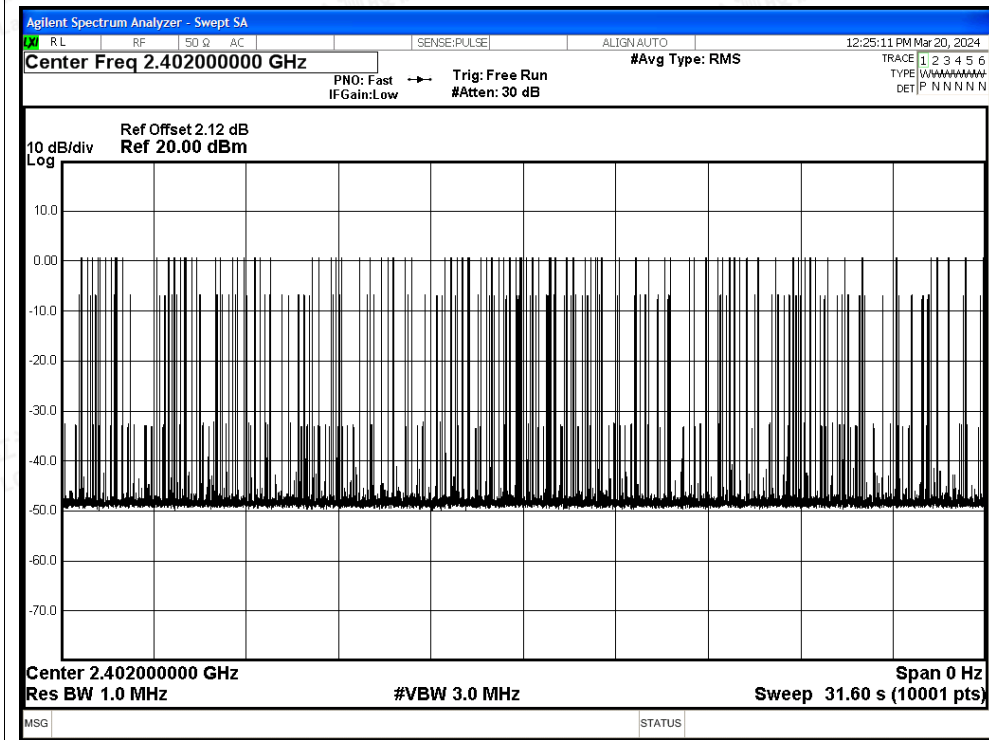


Test Graphs

Dwell NVNT 1-DH5 2402MHz BT ANT One Burst

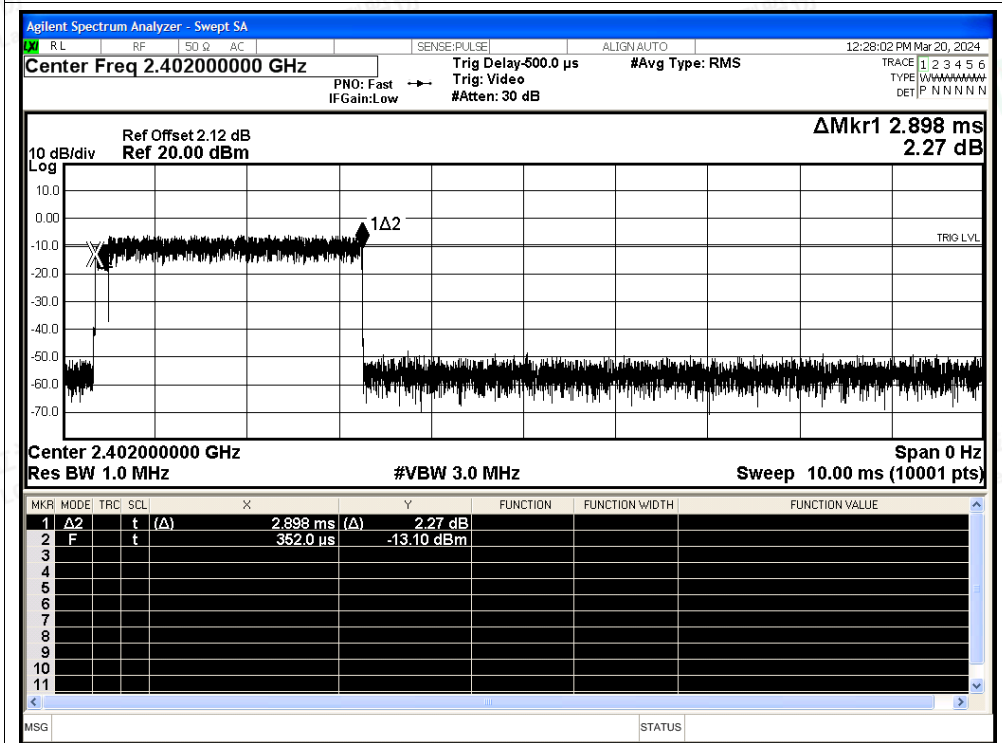


Dwell NVNT 1-DH5 2402MHz BT ANT Accumulated

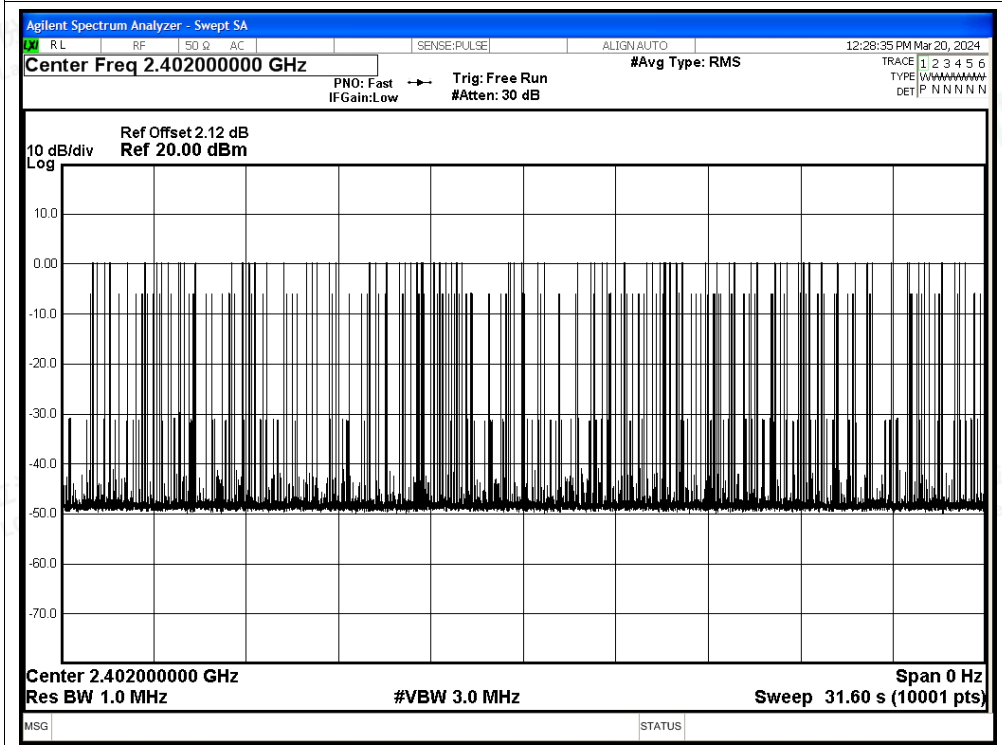




Dwell NVNT 2-DH5 2402MHz BT ANT One Burst

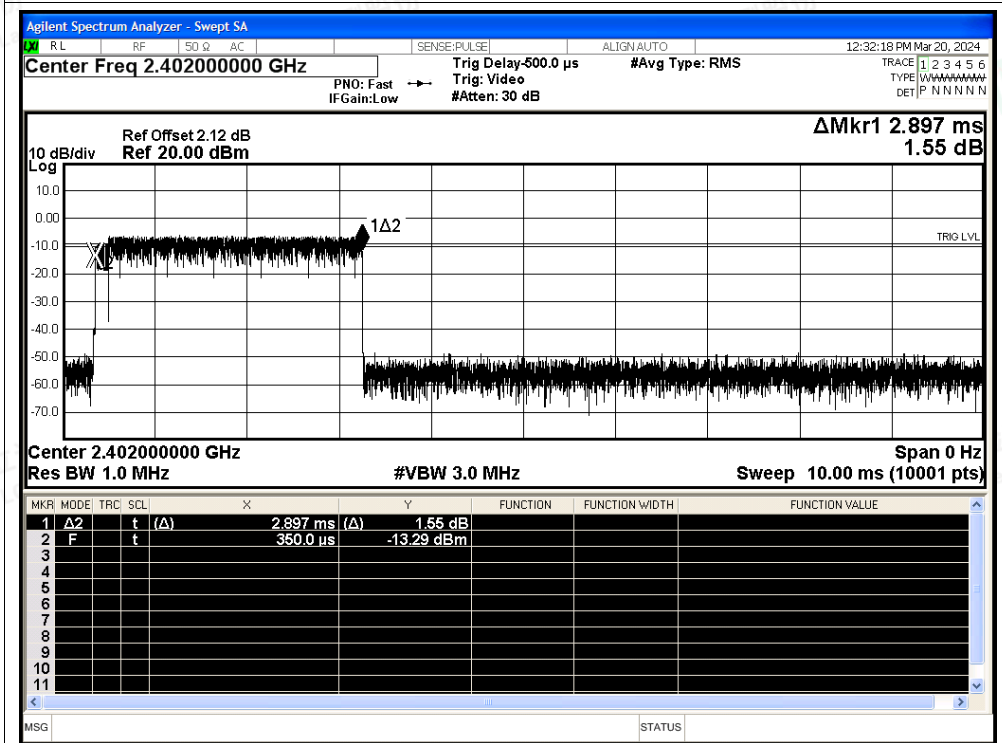


Dwell NVNT 2-DH5 2402MHz BT ANT Accumulated

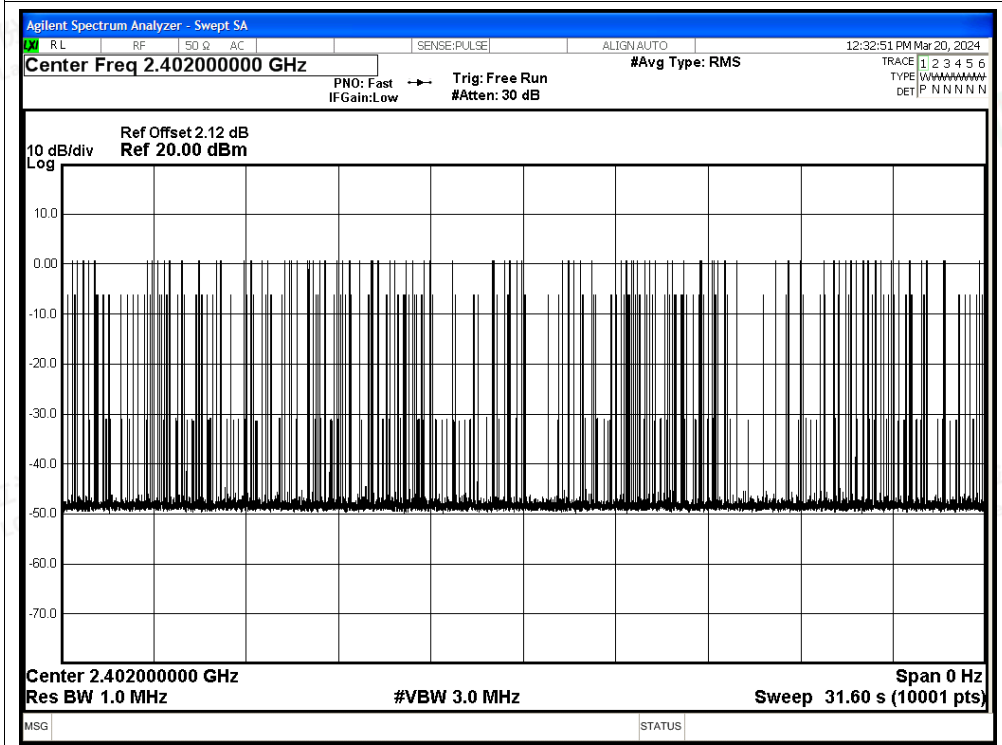




Dwell NVNT 3-DH5 2402MHz BT ANT One Burst



Dwell NVNT 3-DH5 2402MHz BT ANT Accumulated





A.5 Number of Hopping Channel

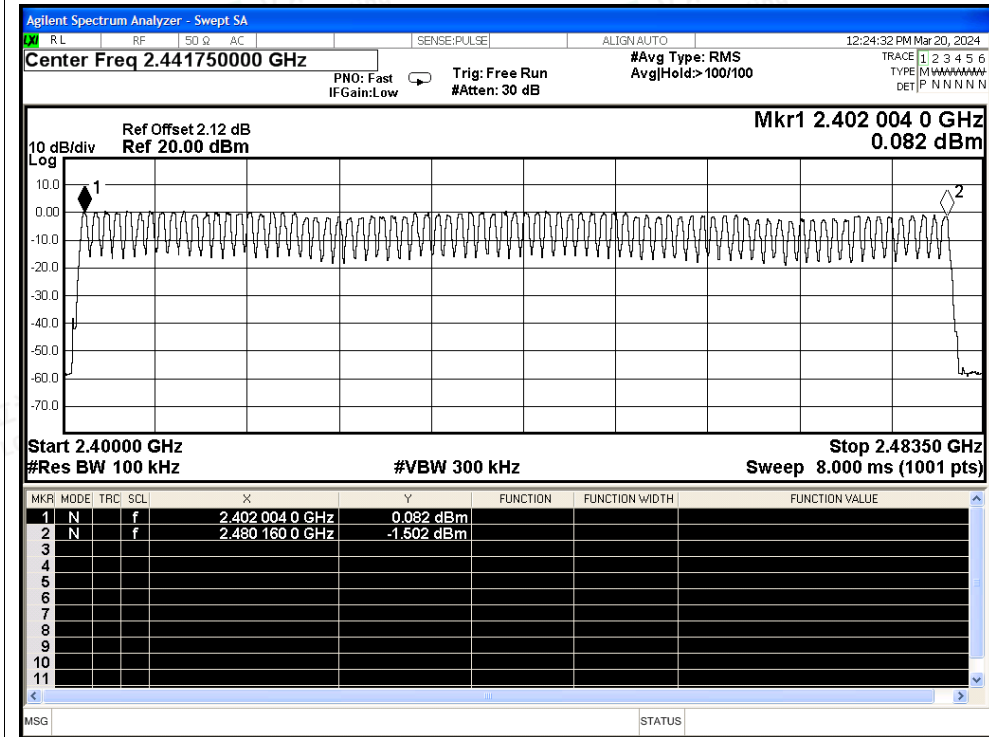
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	BT ANT	79	15	Pass
NVNT	2-DH5	BT ANT	79	15	Pass
NVNT	3-DH5	BT ANT	79	15	Pass



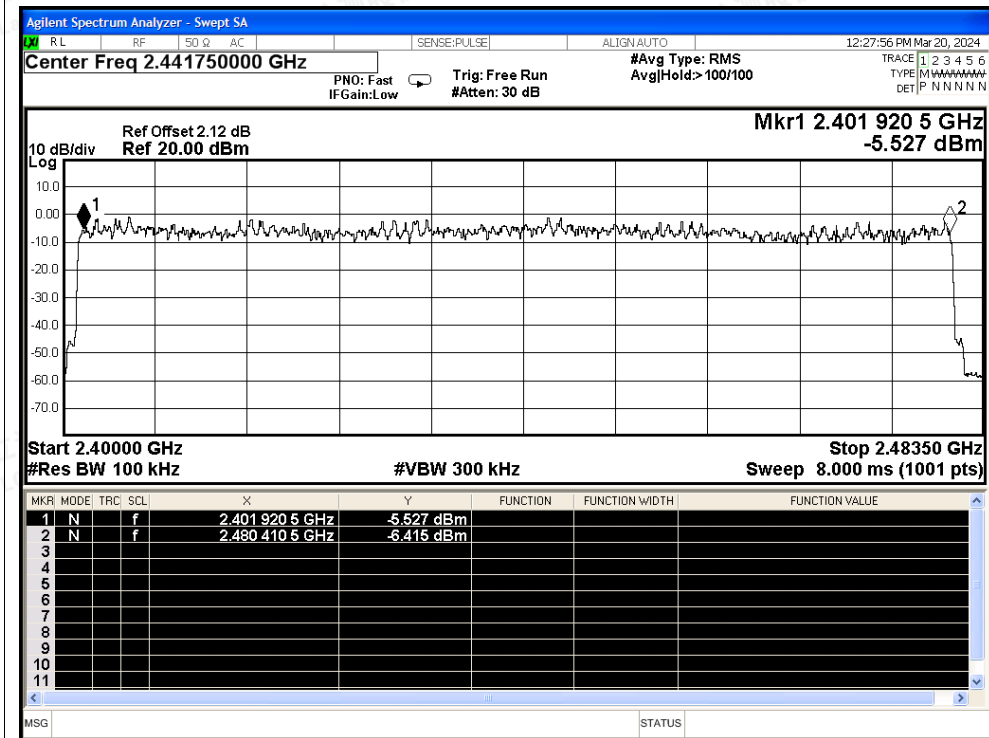


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz BT ANT

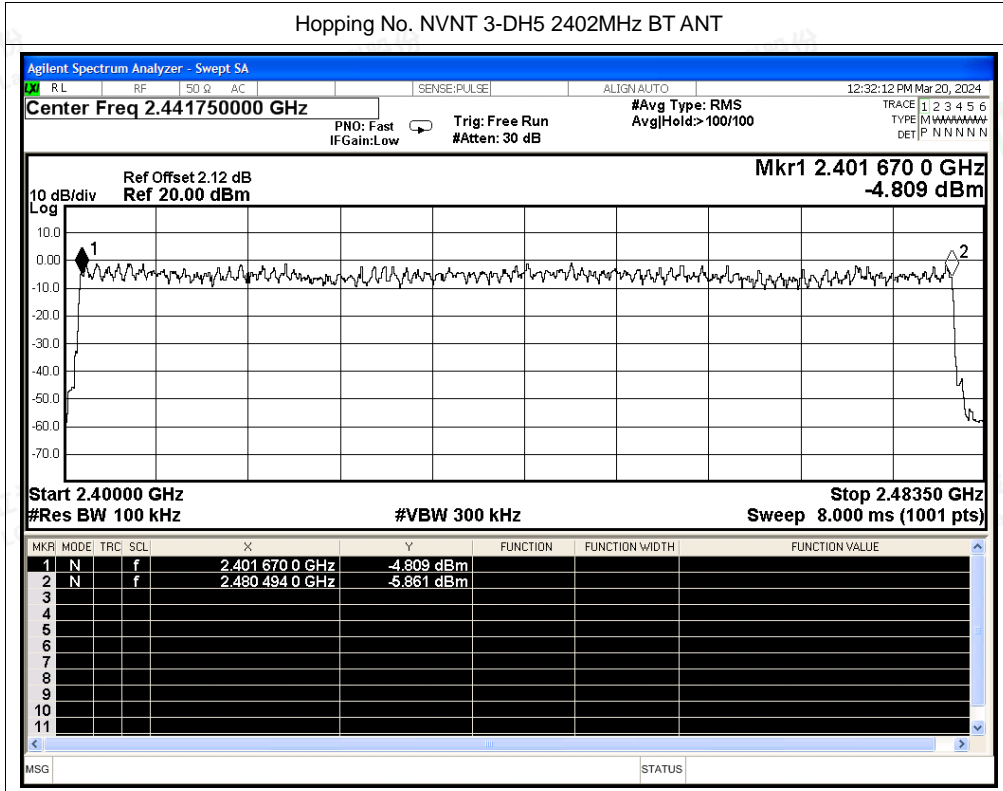


Hopping No. NVNT 2-DH5 2402MHz BT ANT





Hopping No. NVNT 3-DH5 2402MHz BT ANT





A.6 Band Edge

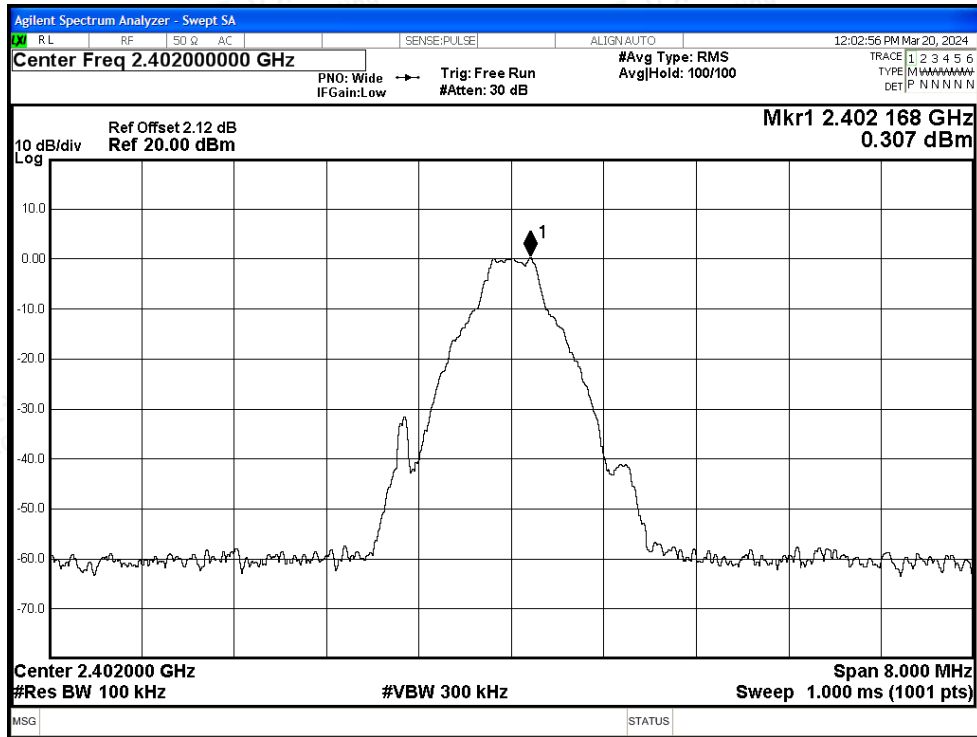
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	BT ANT	No-Hopping	-56.95	-20	Pass
NVNT	1-DH5	2480	BT ANT	No-Hopping	-55.42	-20	Pass
NVNT	2-DH5	2402	BT ANT	No-Hopping	-55.11	-20	Pass
NVNT	2-DH5	2480	BT ANT	No-Hopping	-55.22	-20	Pass
NVNT	3-DH5	2402	BT ANT	No-Hopping	-53.93	-20	Pass
NVNT	3-DH5	2480	BT ANT	No-Hopping	-54.5	-20	Pass



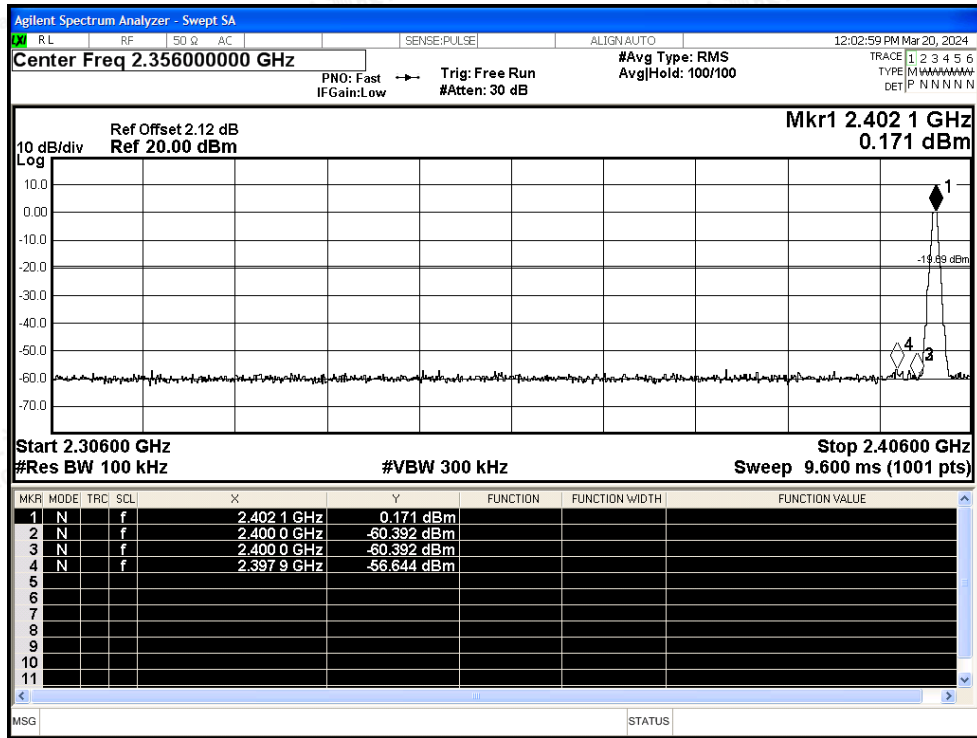


Test Graphs

Band Edge NVNT 1-DH5 2402MHz BT ANT No-Hopping Ref

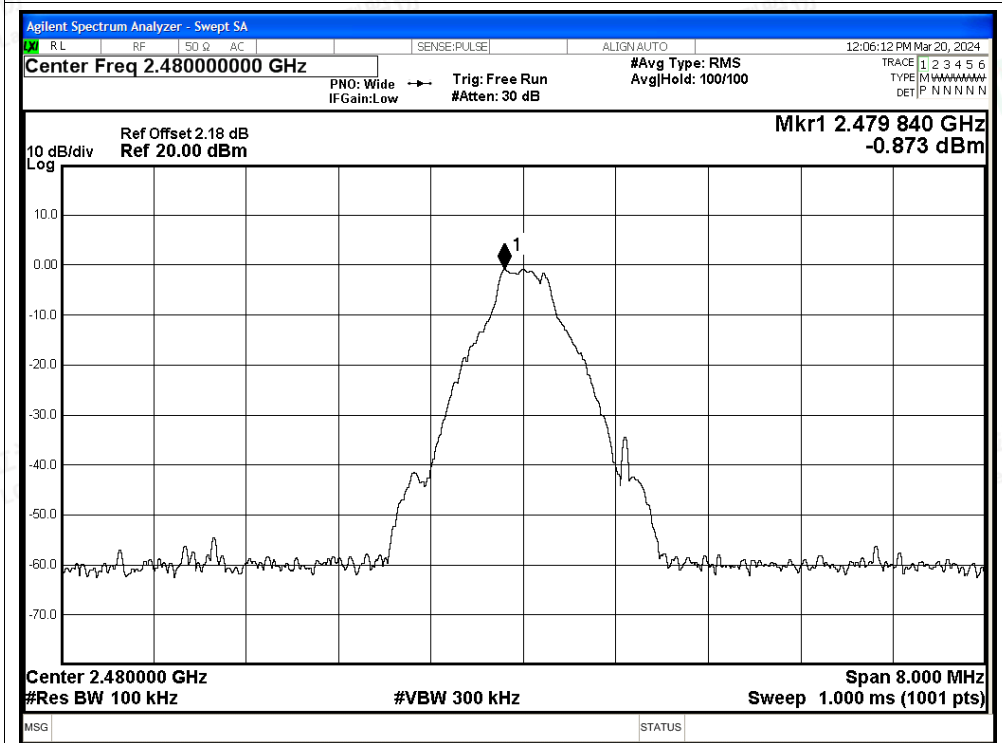


Band Edge NVNT 1-DH5 2402MHz BT ANT No-Hopping Emission

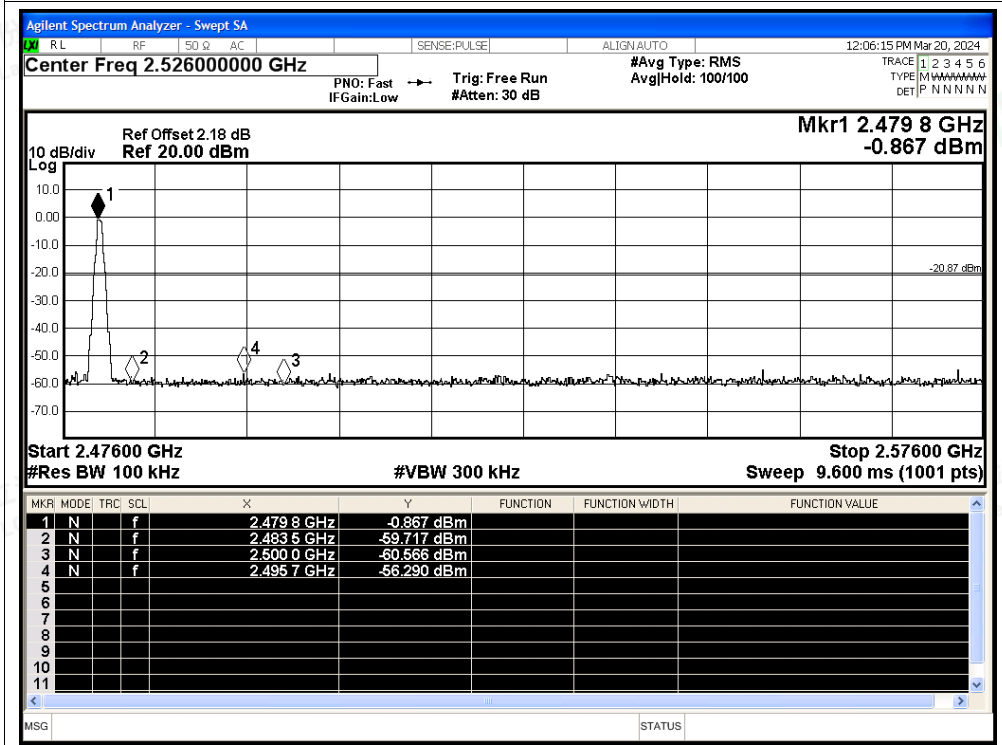




Band Edge NVNT 1-DH5 2480MHz BT ANT No-Hopping Ref

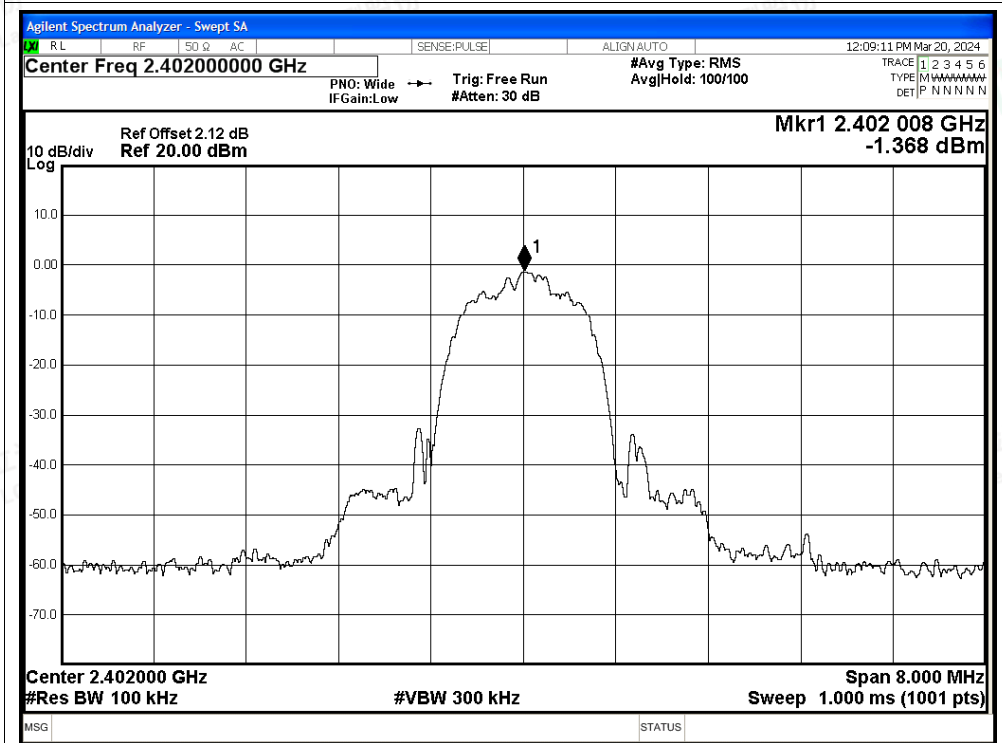


Band Edge NVNT 1-DH5 2480MHz BT ANT No-Hopping Emission

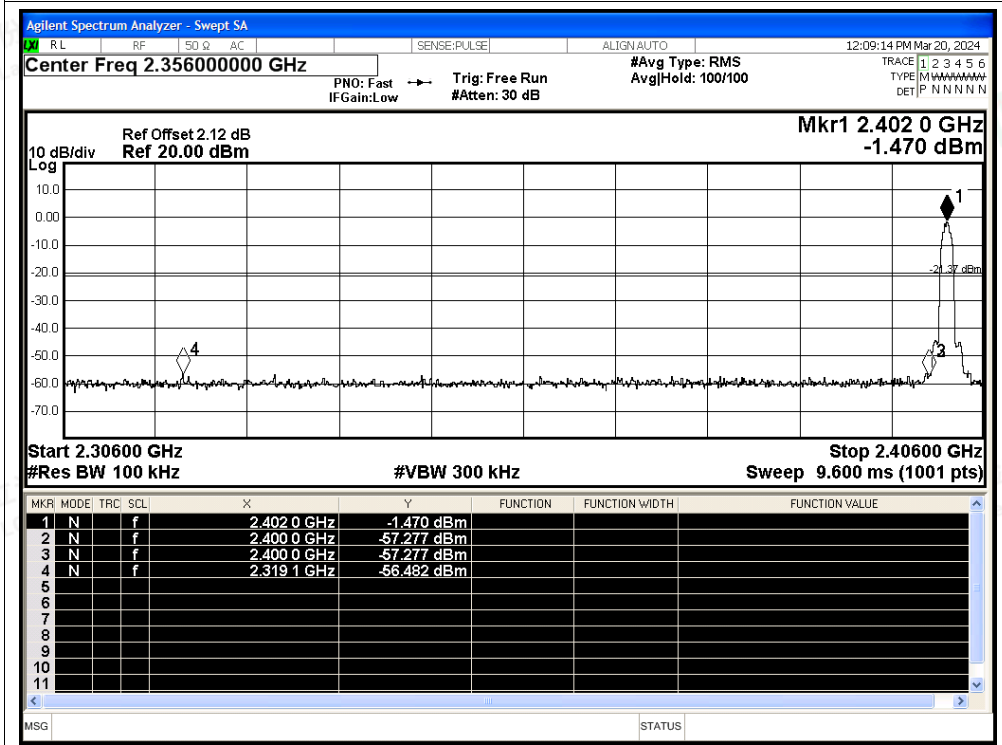




Band Edge NVNT 2-DH5 2402MHz BT ANT No-Hopping Ref



Band Edge NVNT 2-DH5 2402MHz BT ANT No-Hopping Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

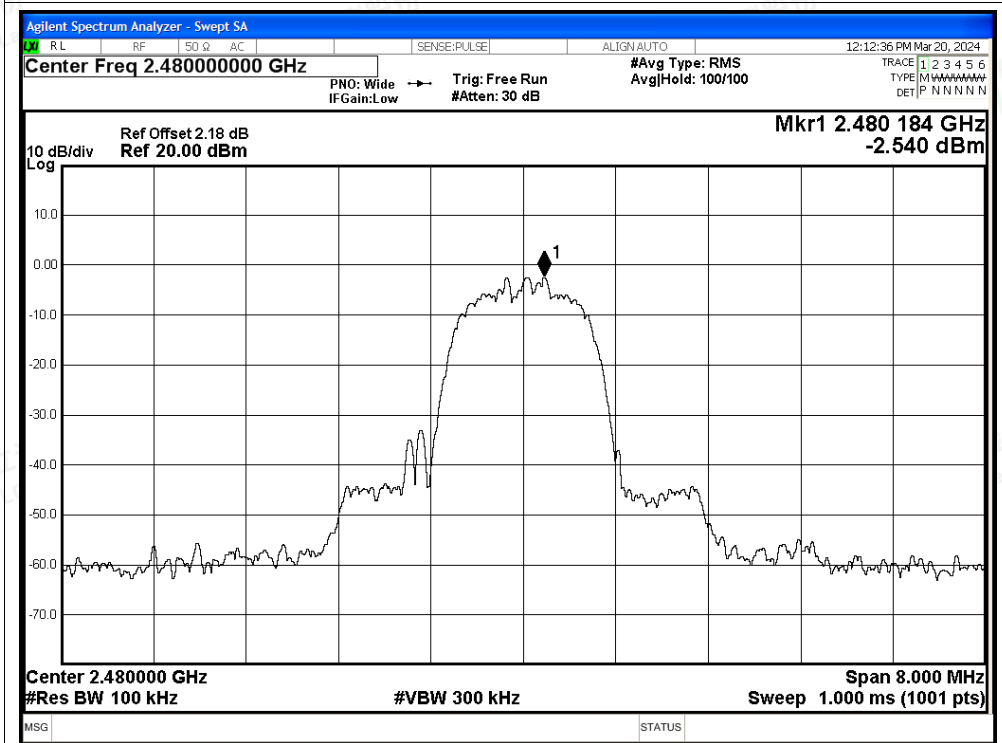
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

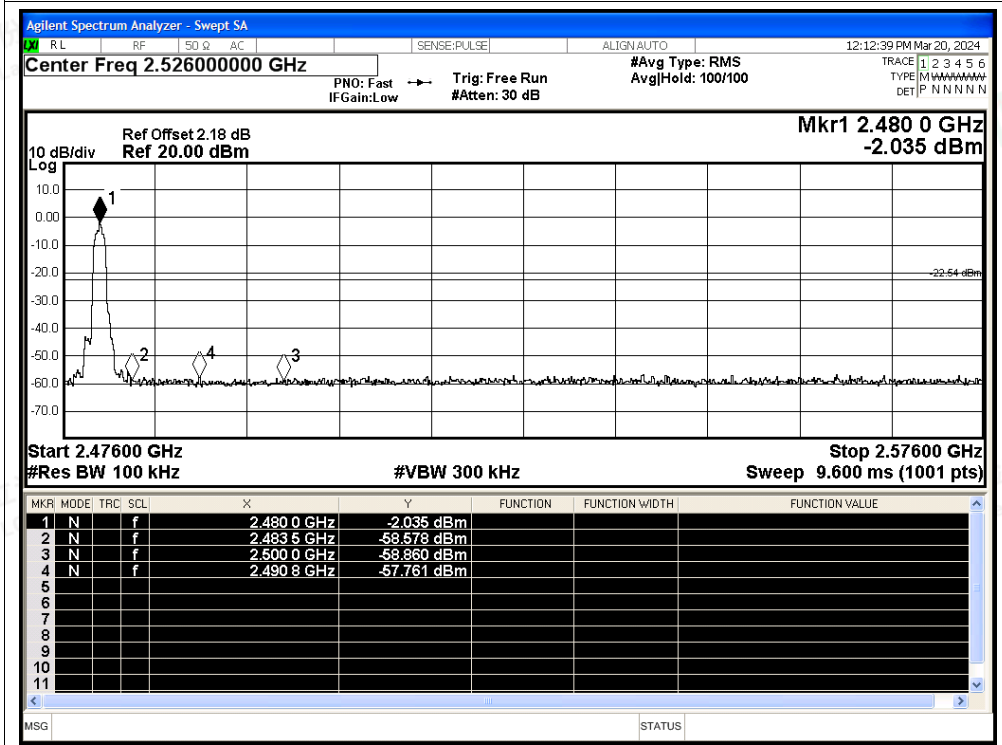
Scan code to check authenticity



Band Edge NVNT 2-DH5 2480MHz BT ANT No-Hopping Ref

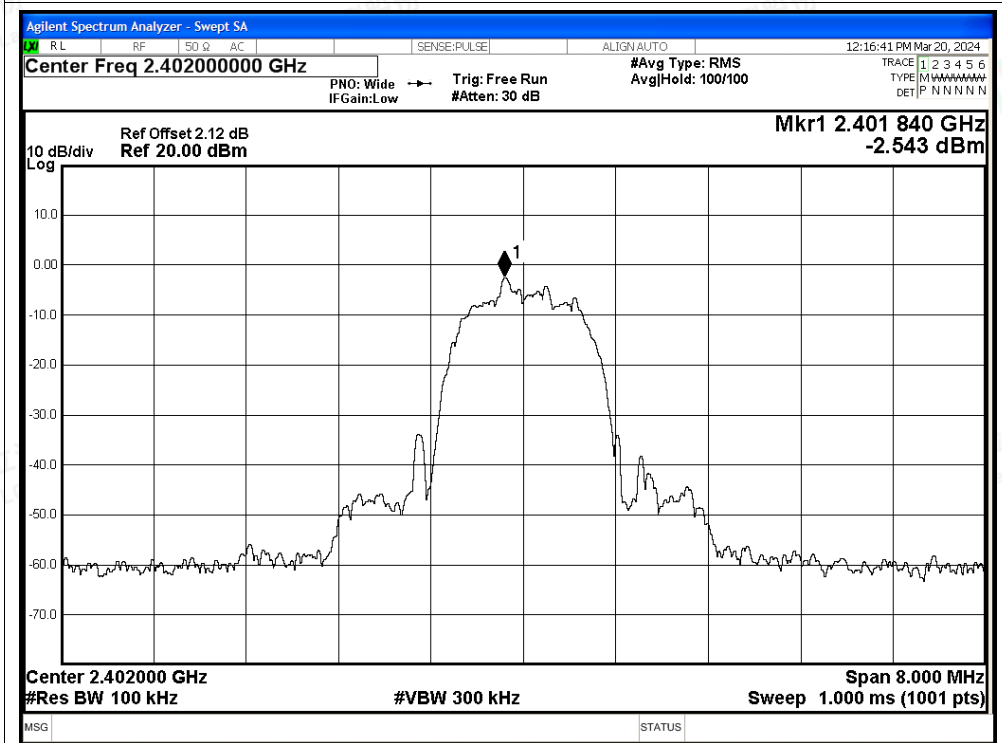


Band Edge NVNT 2-DH5 2480MHz BT ANT No-Hopping Emission

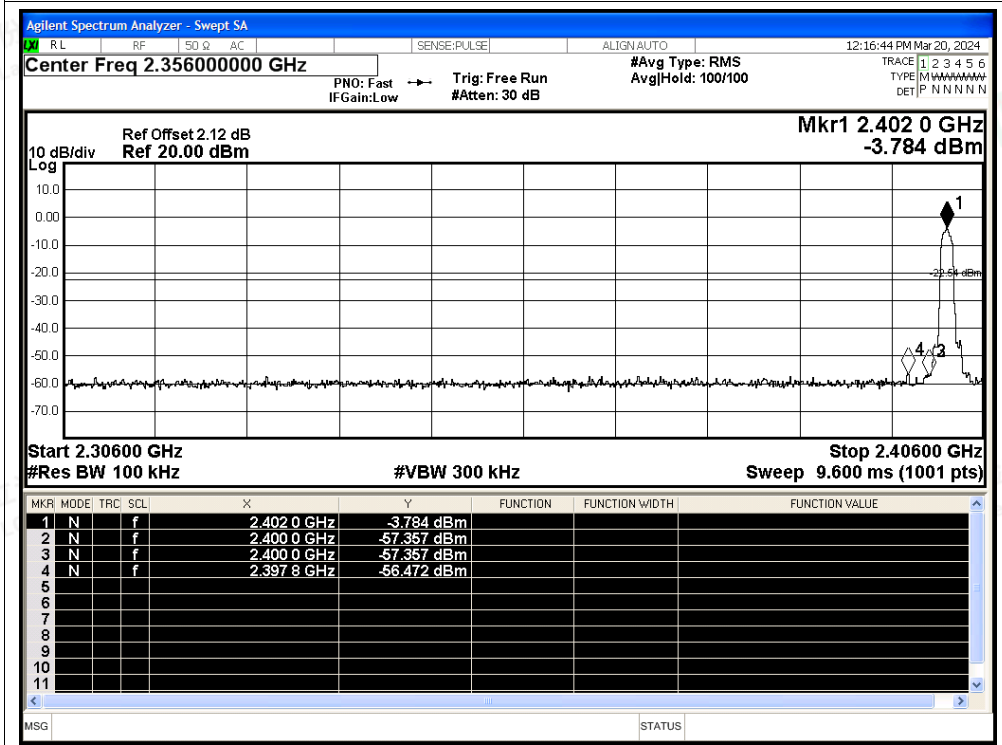




Band Edge NVNT 3-DH5 2402MHz BT ANT No-Hopping Ref

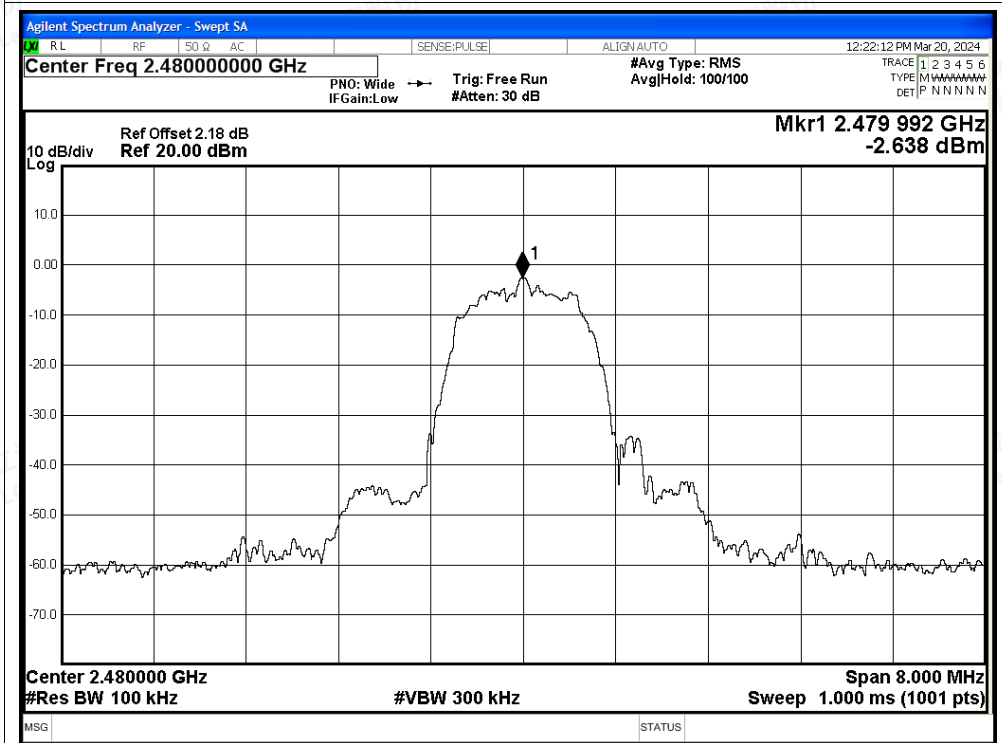


Band Edge NVNT 3-DH5 2402MHz BT ANT No-Hopping Emission

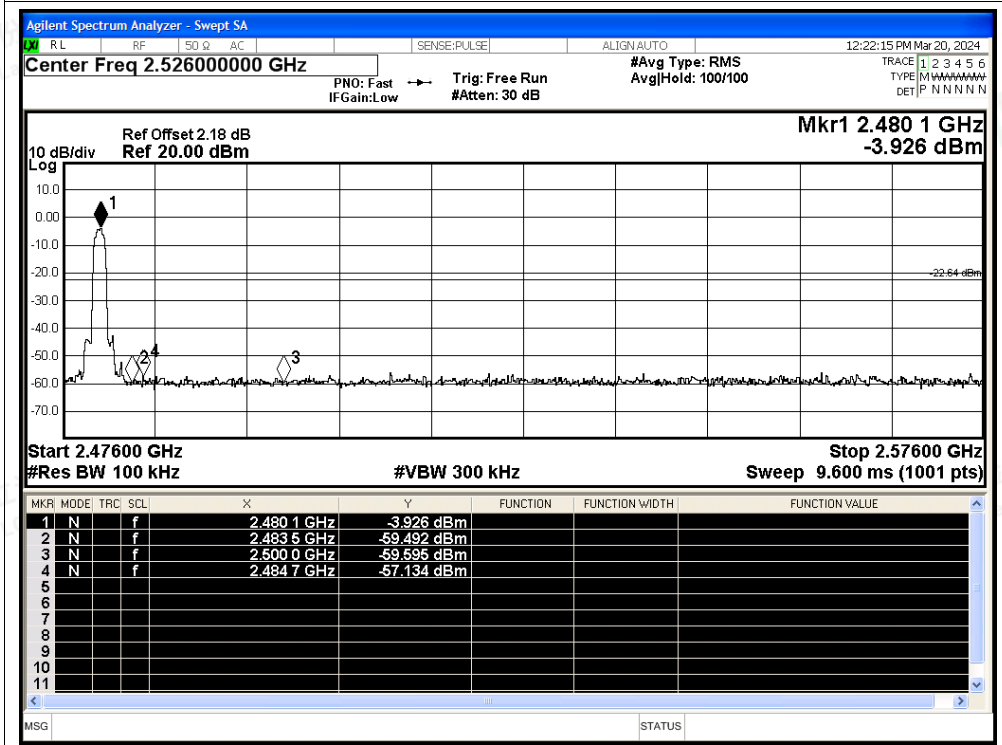




Band Edge NVNT 3-DH5 2480MHz BT ANT No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz BT ANT No-Hopping Emission





(Hopping)

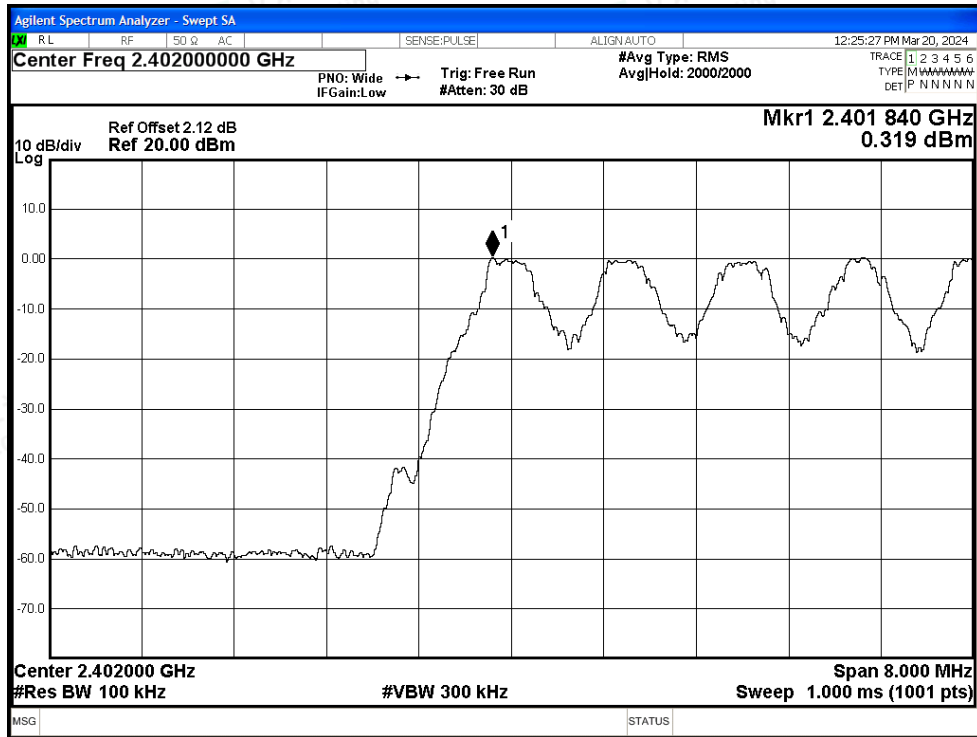
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	BT ANT	Hopping	-56.83	-20	Pass
NVNT	1-DH5	2480	BT ANT	Hopping	-54.16	-20	Pass
NVNT	2-DH5	2402	BT ANT	Hopping	-55.11	-20	Pass
NVNT	2-DH5	2480	BT ANT	Hopping	-54.42	-20	Pass
NVNT	3-DH5	2402	BT ANT	Hopping	-54.58	-20	Pass
NVNT	3-DH5	2480	BT ANT	Hopping	-53.08	-20	Pass



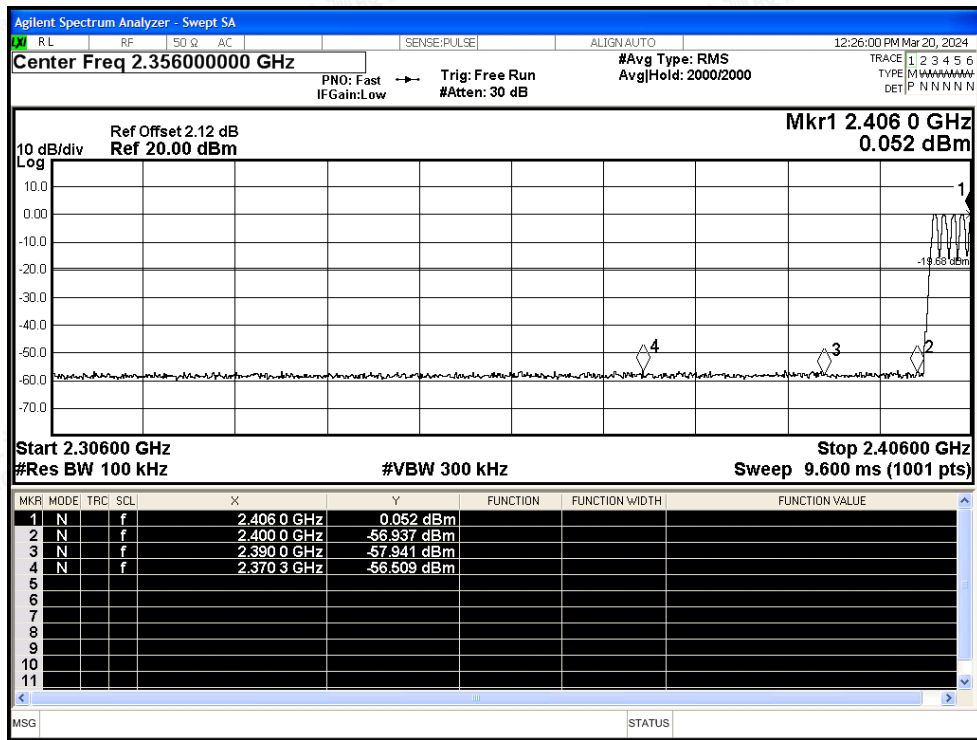


Test Graphs

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

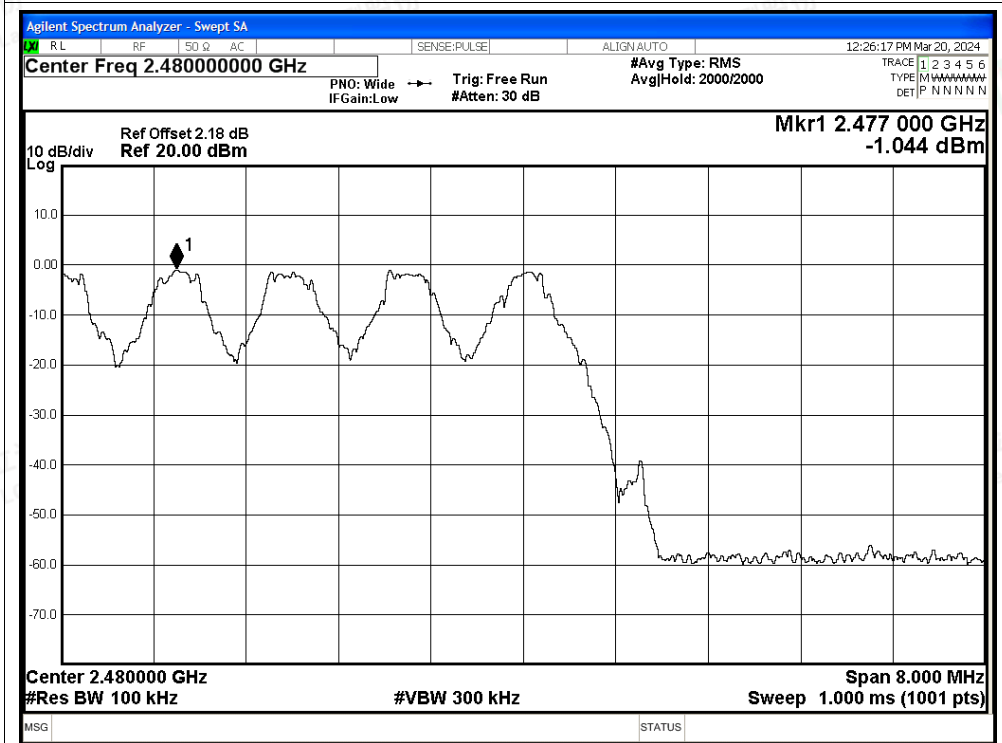


Band Edge(Hopping) NVNT 1-DH5 2402MHz BT ANT Hopping Emission

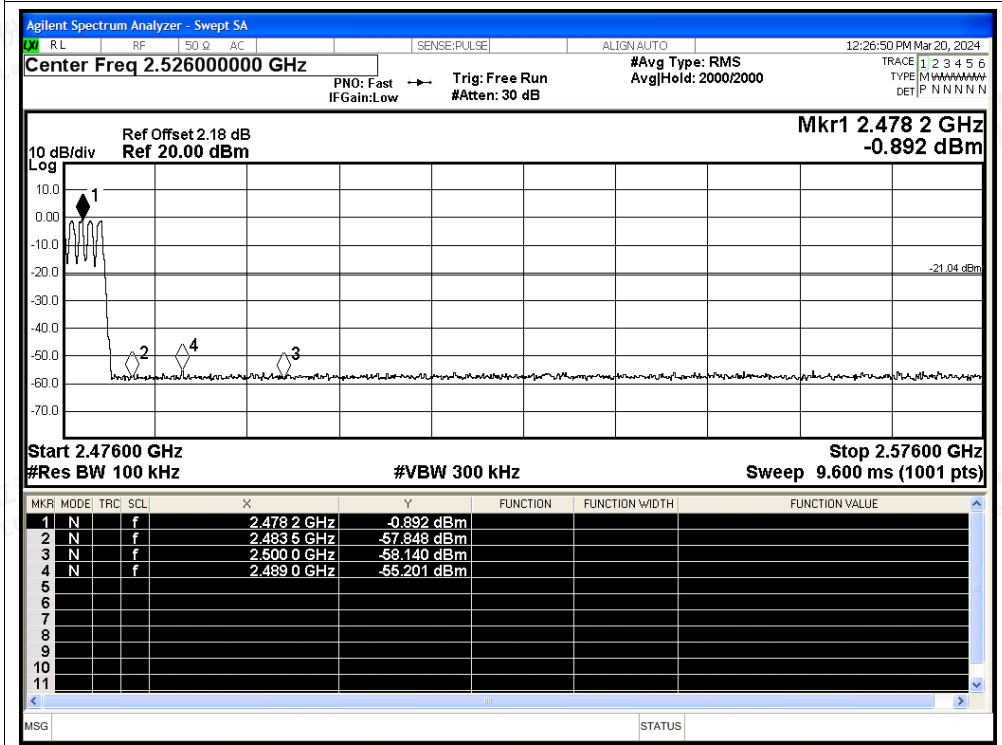




Band Edge(Hopping) NVNT 1-DH5 2480MHz BT ANT Hopping Ref

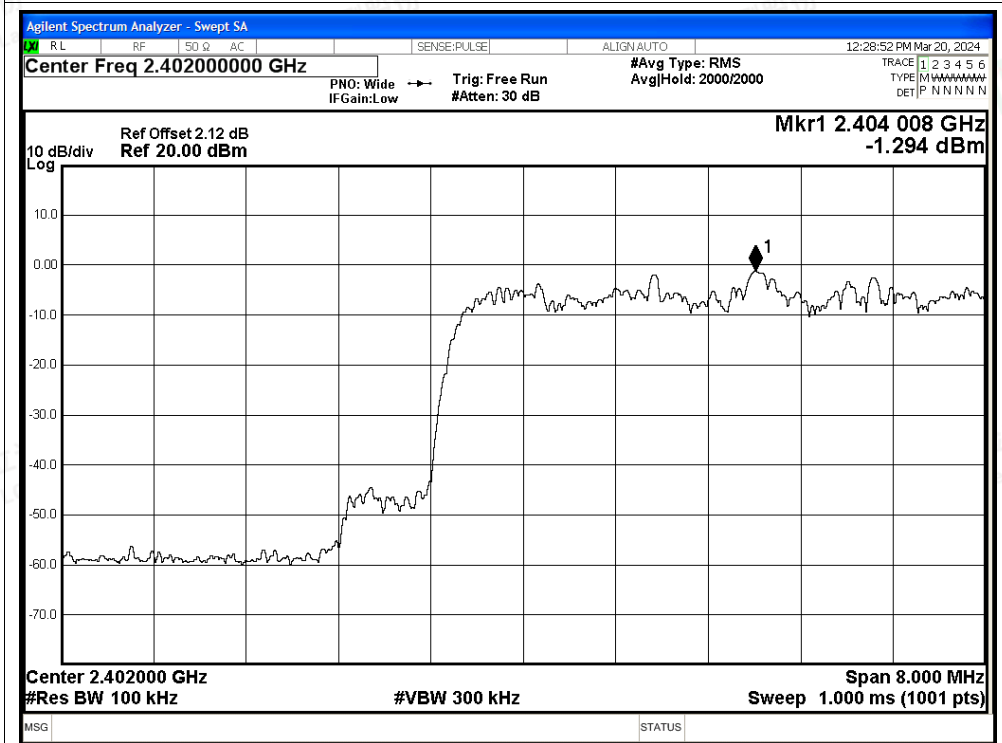


Band Edge(Hopping) NVNT 1-DH5 2480MHz BT ANT Hopping Emission

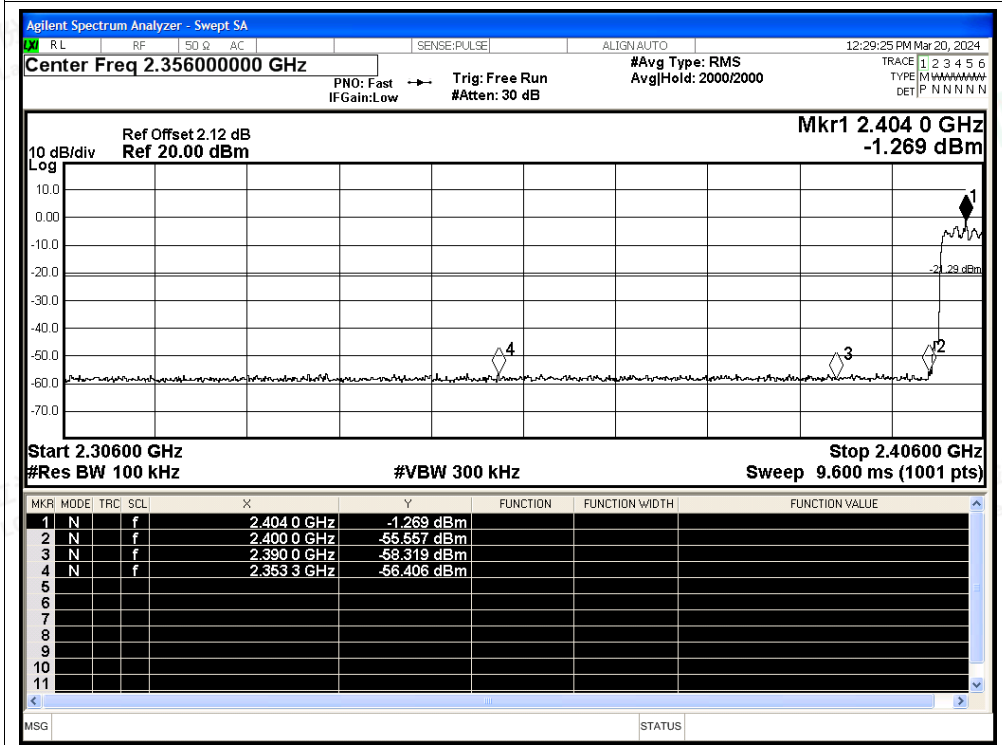




Band Edge(Hopping) NVNT 2-DH5 2402MHz BT ANT Hopping Ref

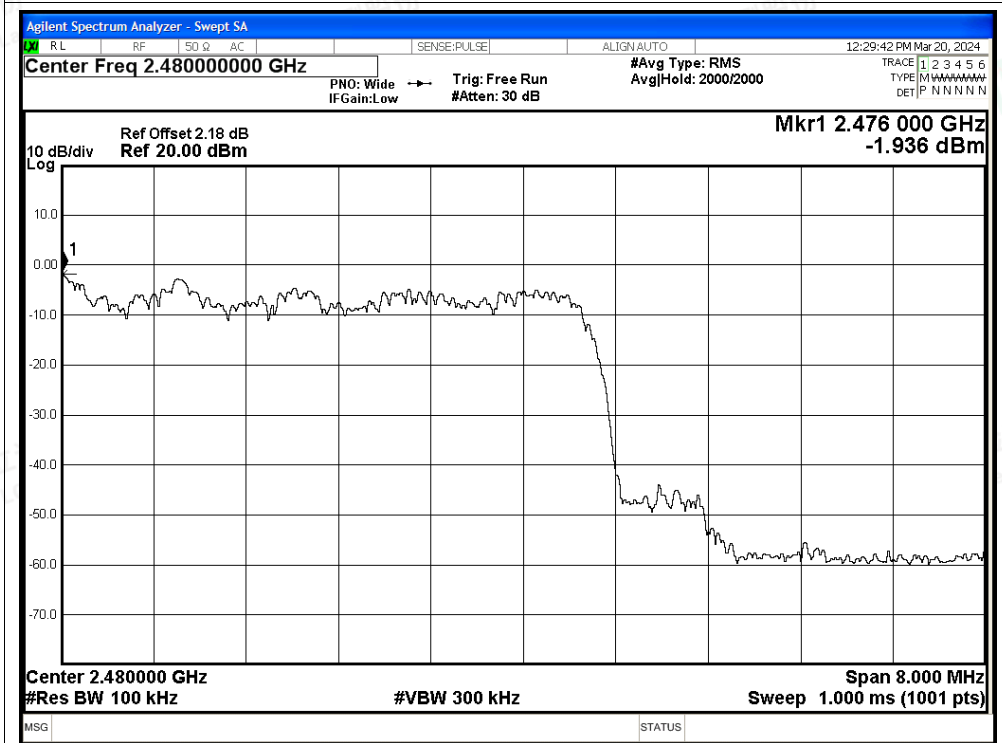


Band Edge(Hopping) NVNT 2-DH5 2402MHz BT ANT Hopping Emission

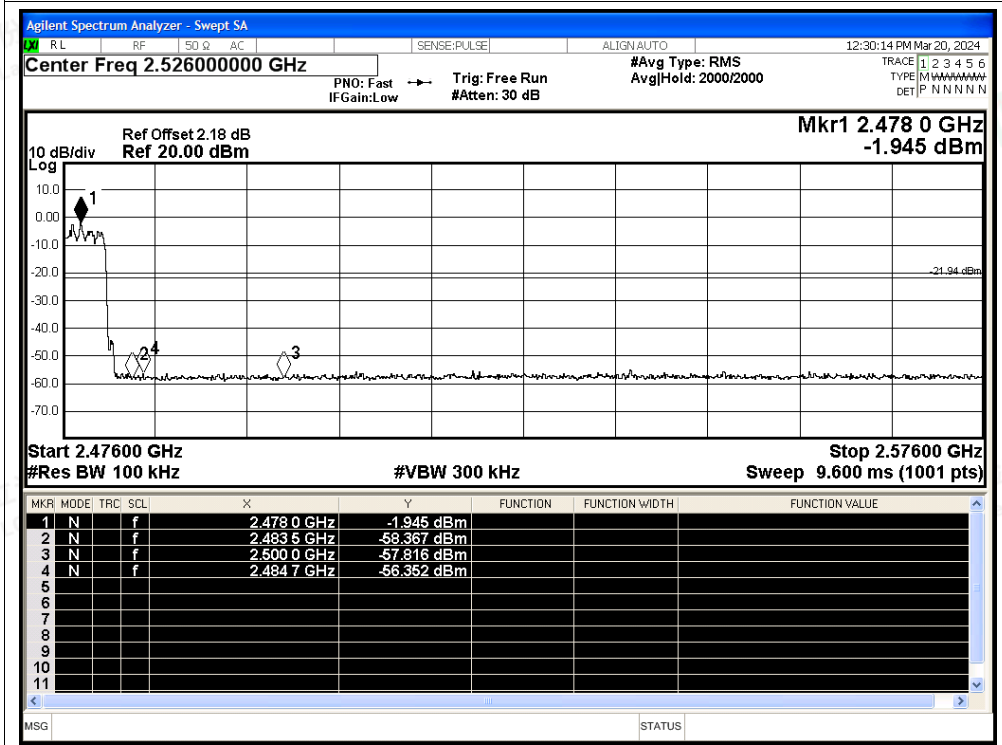




Band Edge(Hopping) NVNT 2-DH5 2480MHz BT ANT Hopping Ref



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

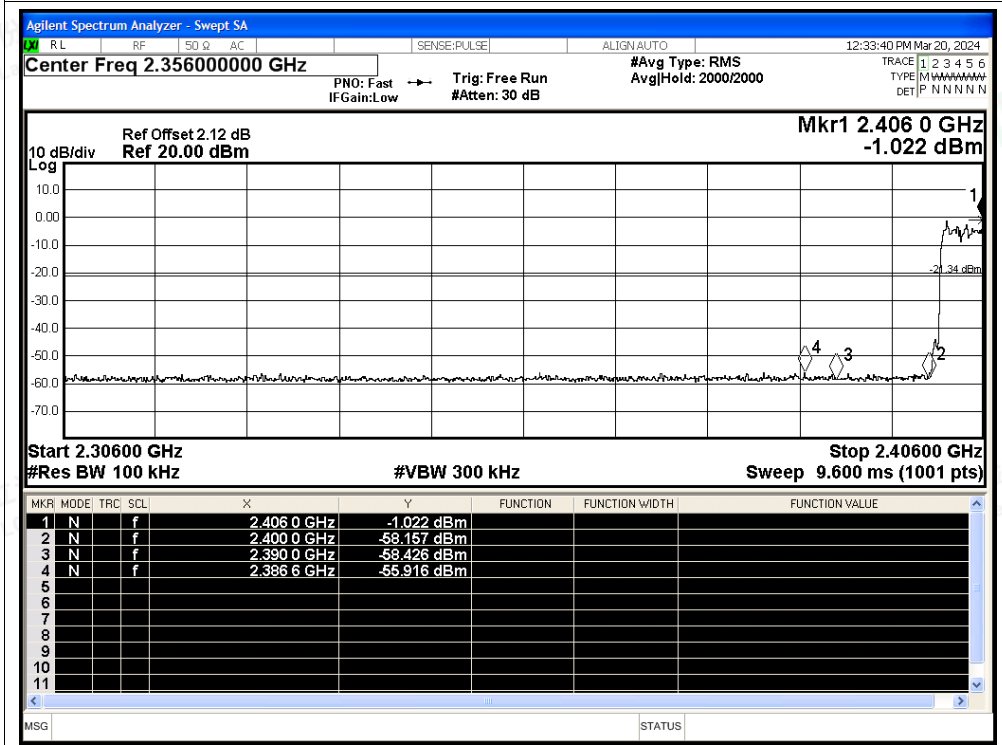




Band Edge(Hopping) NVNT 3-DH5 2402MHz BT ANT Hopping Ref

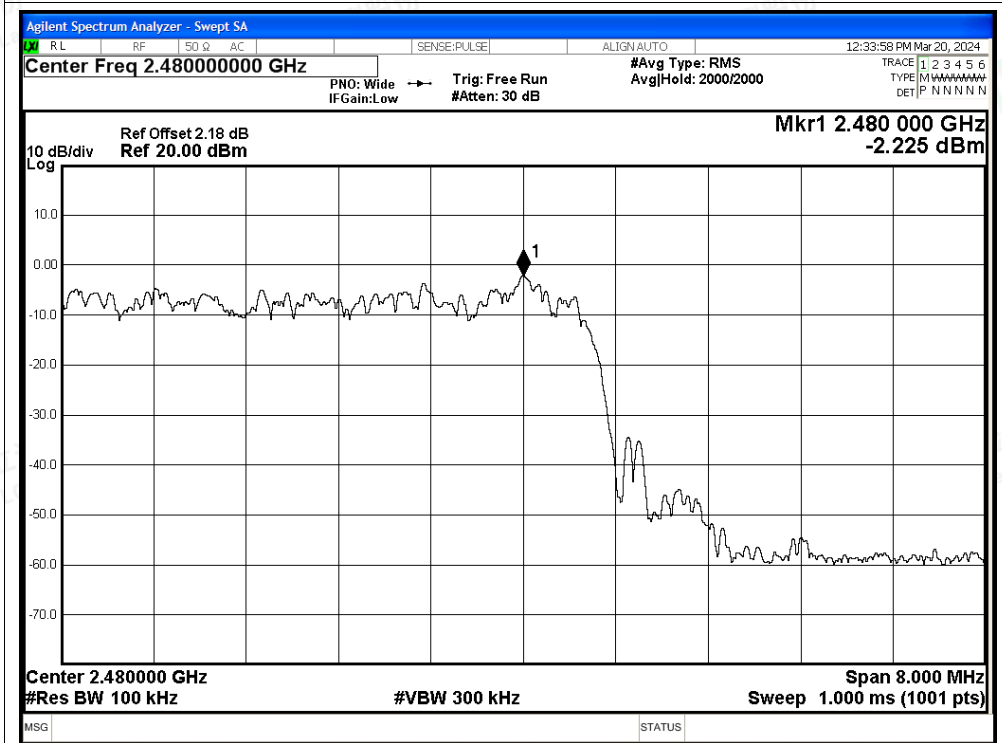


Band Edge(Hopping) NVNT 3-DH5 2402MHz BT ANT Hopping Emission

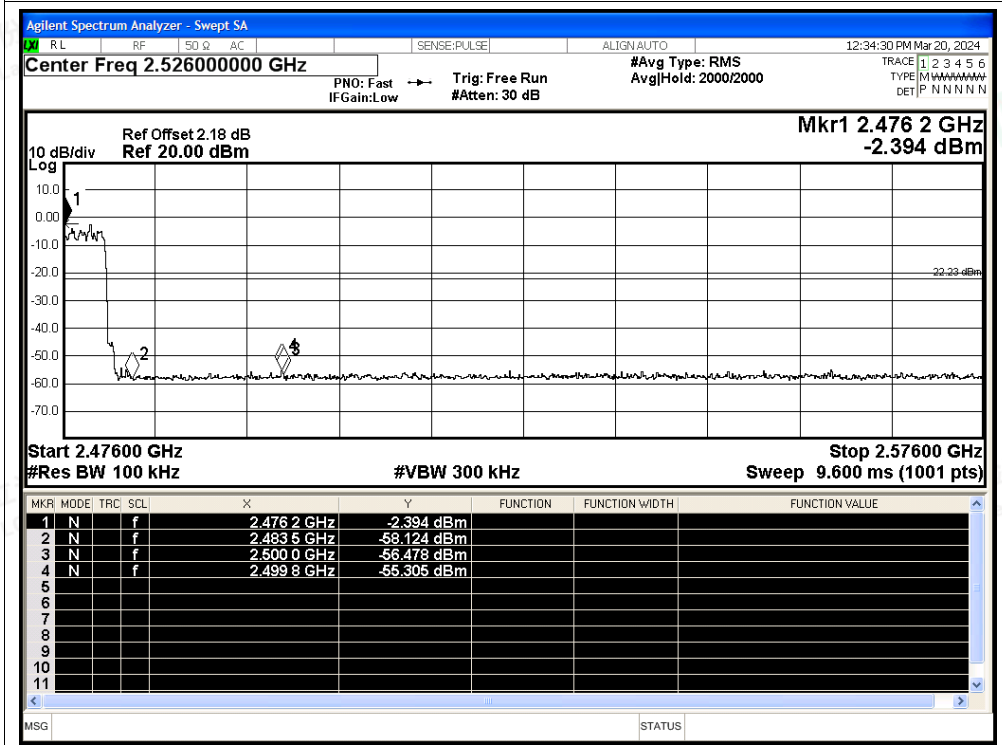




Band Edge(Hopping) NVNT 3-DH5 2480MHz BT ANT Hopping Ref



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





A.7 Conducted RF Spurious Emission

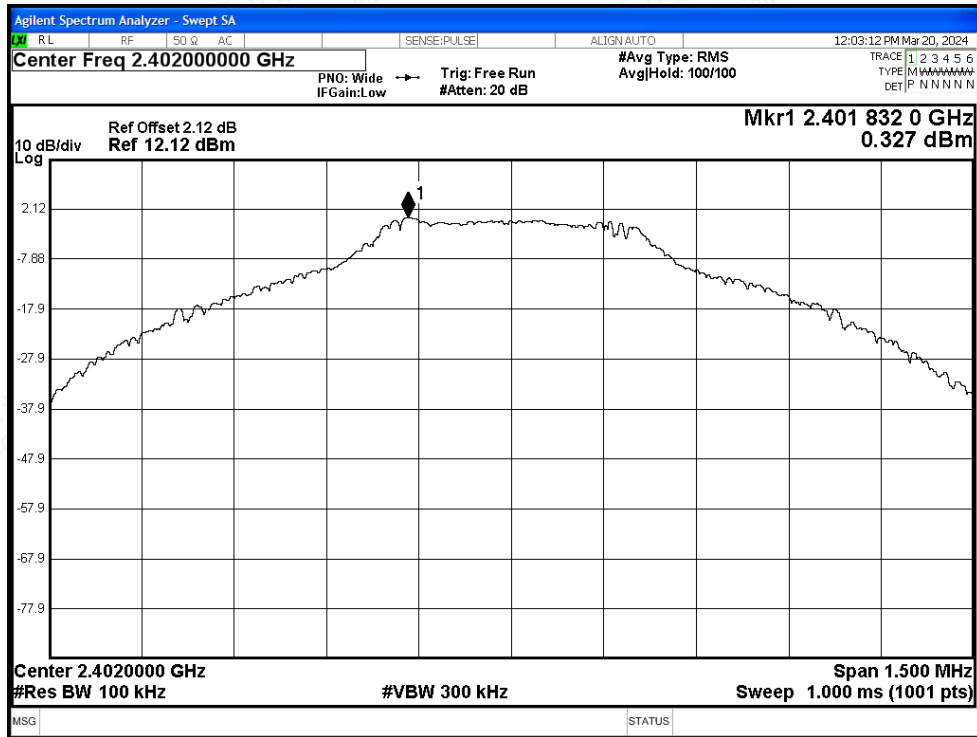
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	BT ANT	-55.78	-20	Pass
NVNT	1-DH5	2441	BT ANT	-55.86	-20	Pass
NVNT	1-DH5	2480	BT ANT	-54.63	-20	Pass
NVNT	2-DH5	2402	BT ANT	-54.36	-20	Pass
NVNT	2-DH5	2441	BT ANT	-53.58	-20	Pass
NVNT	2-DH5	2480	BT ANT	-52.86	-20	Pass
NVNT	3-DH5	2402	BT ANT	-53.01	-20	Pass
NVNT	3-DH5	2441	BT ANT	-53.13	-20	Pass
NVNT	3-DH5	2480	BT ANT	-52.67	-20	Pass



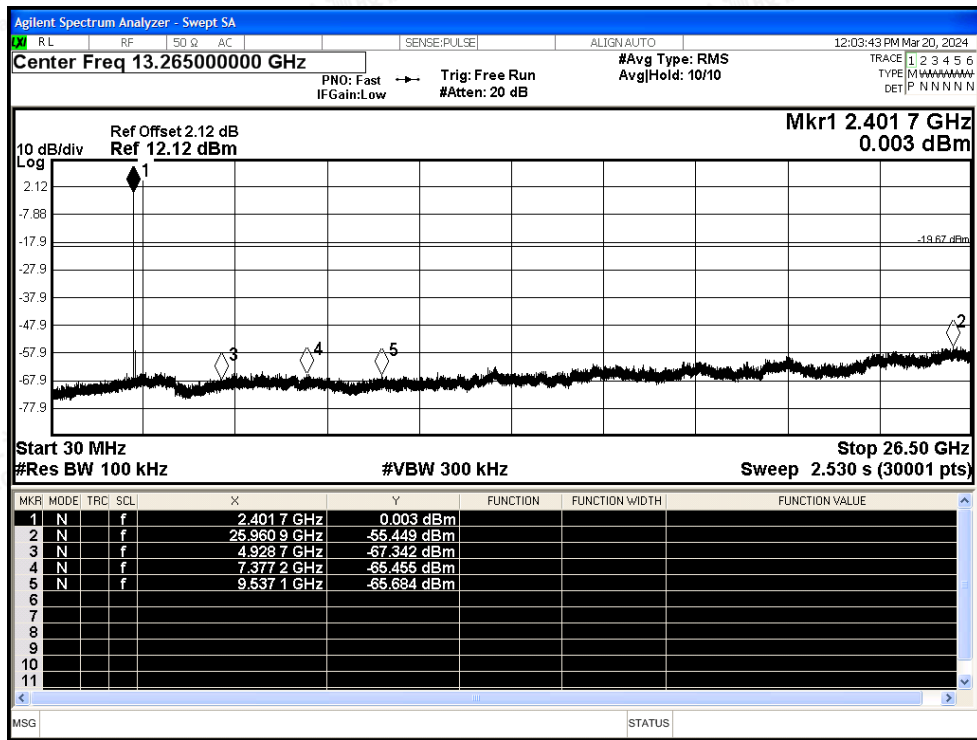


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz BT ANT Ref

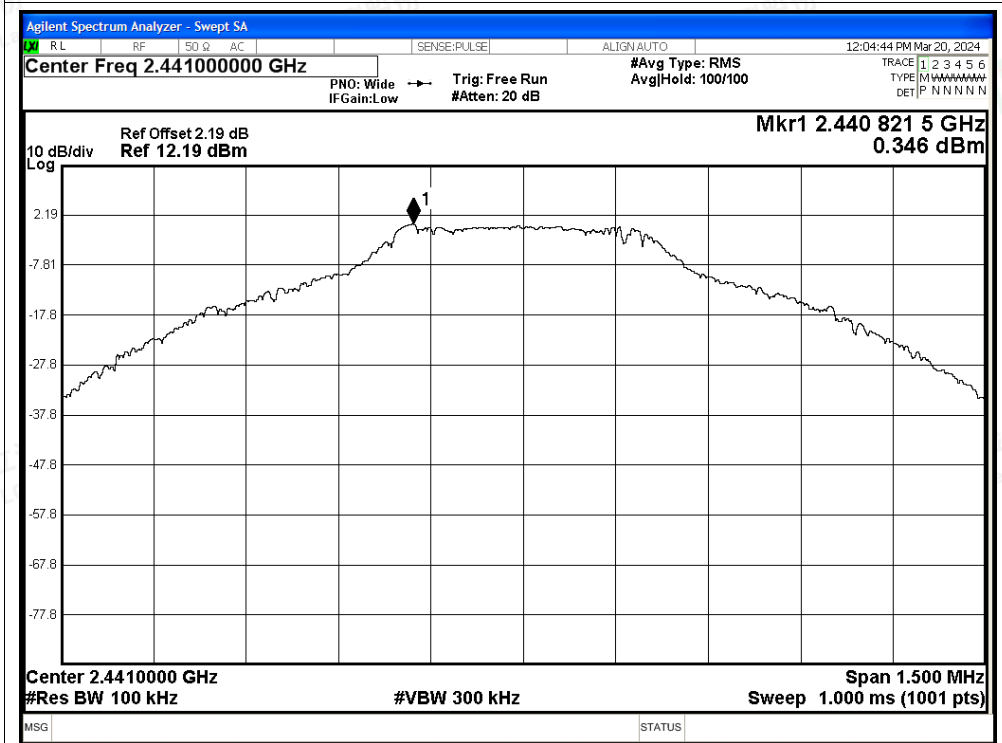


Tx. Spurious NVNT 1-DH5 2402MHz BT ANT Emission

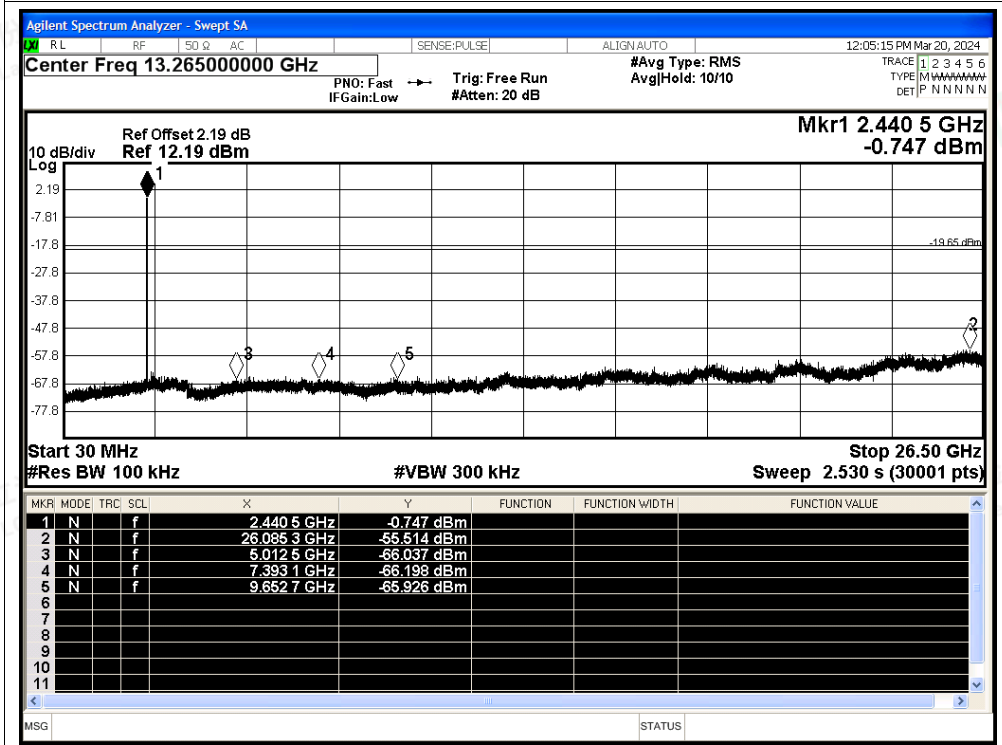




Tx. Spurious NVNT 1-DH5 2441MHz BT ANT Ref

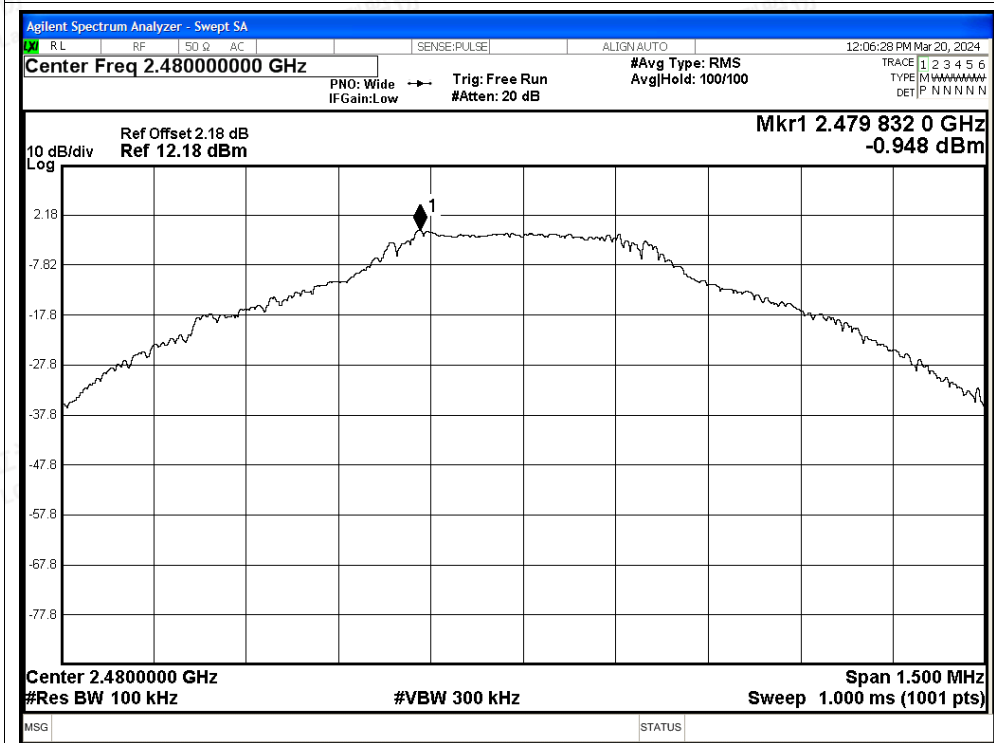


Tx. Spurious NVNT 1-DH5 2441MHz BT ANT Emission

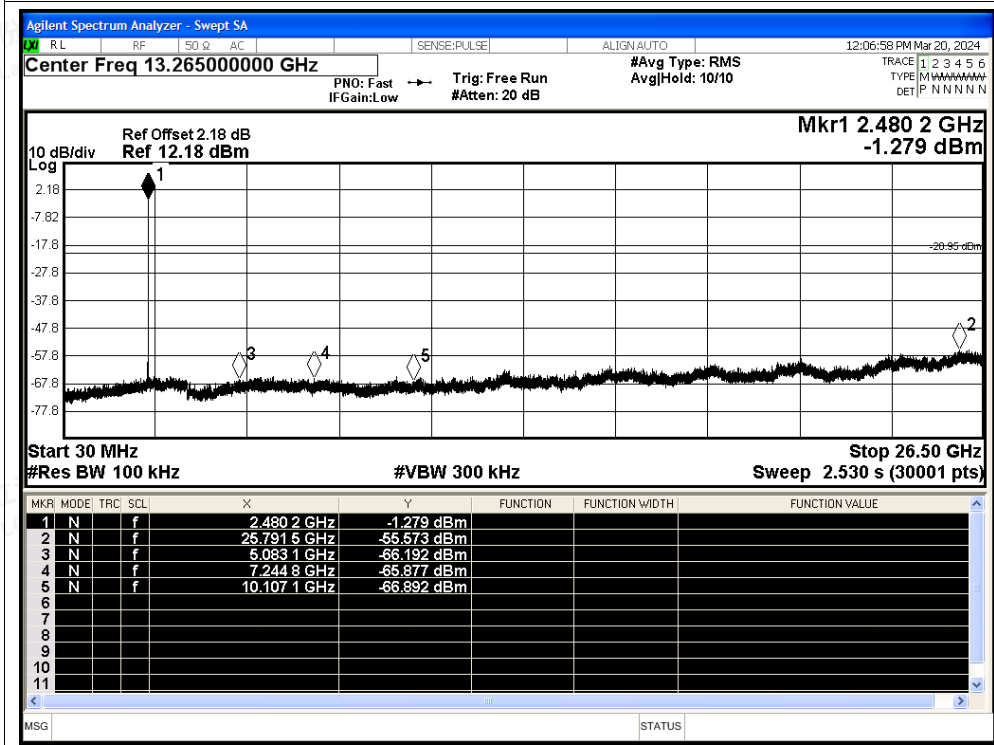




Tx. Spurious NVNT 1-DH5 2480MHz BT ANT Ref



Tx. Spurious NVNT 1-DH5 2480MHz BT ANT Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

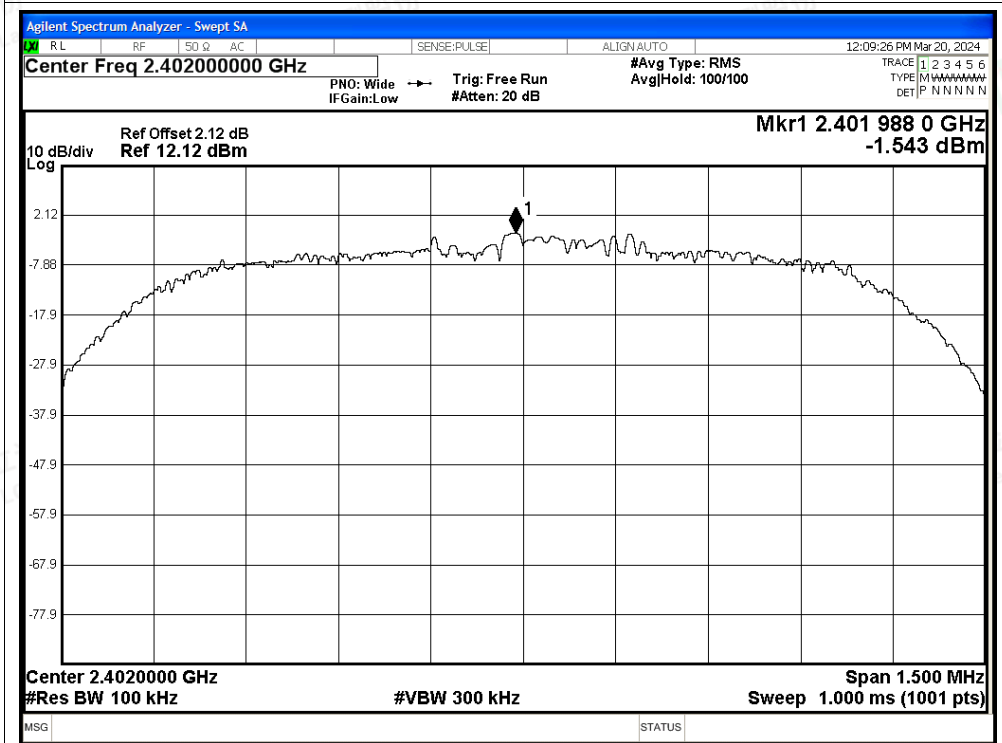
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

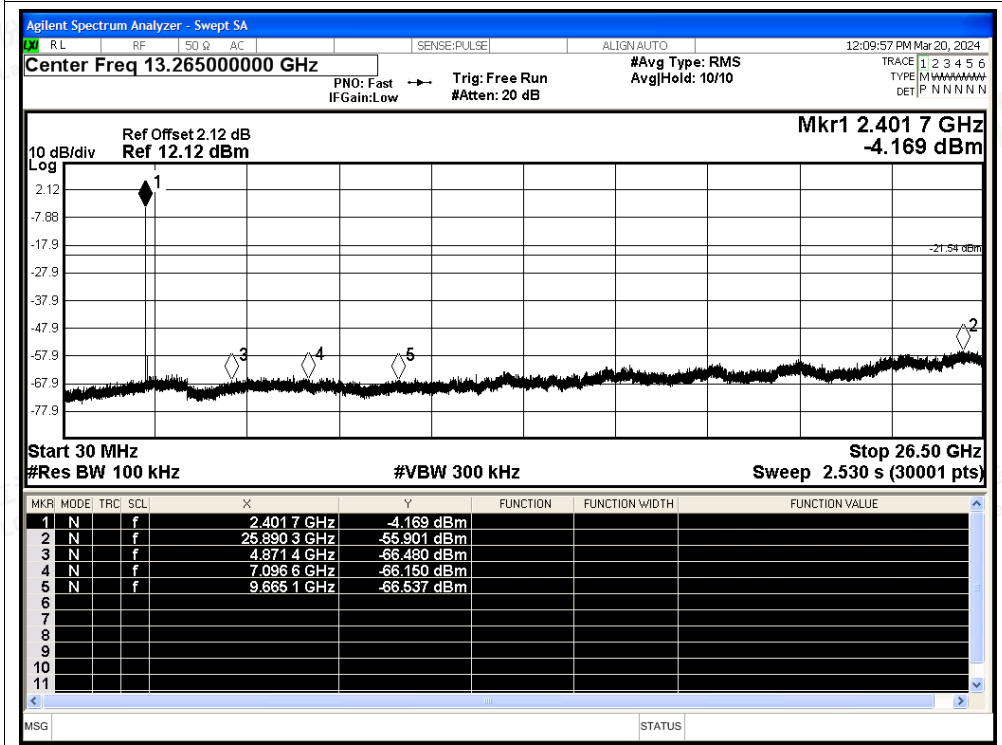
Scan code to check authenticity



Tx. Spurious NVNT 2-DH5 2402MHz BT ANT Ref

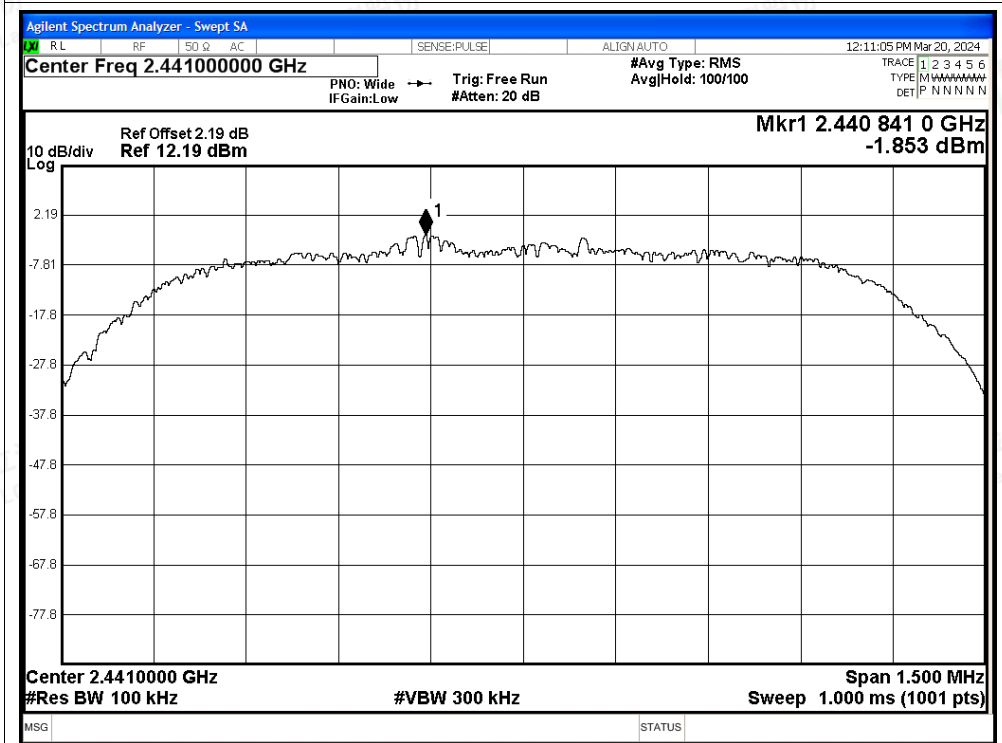


Tx. Spurious NVNT 2-DH5 2402MHz BT ANT Emission

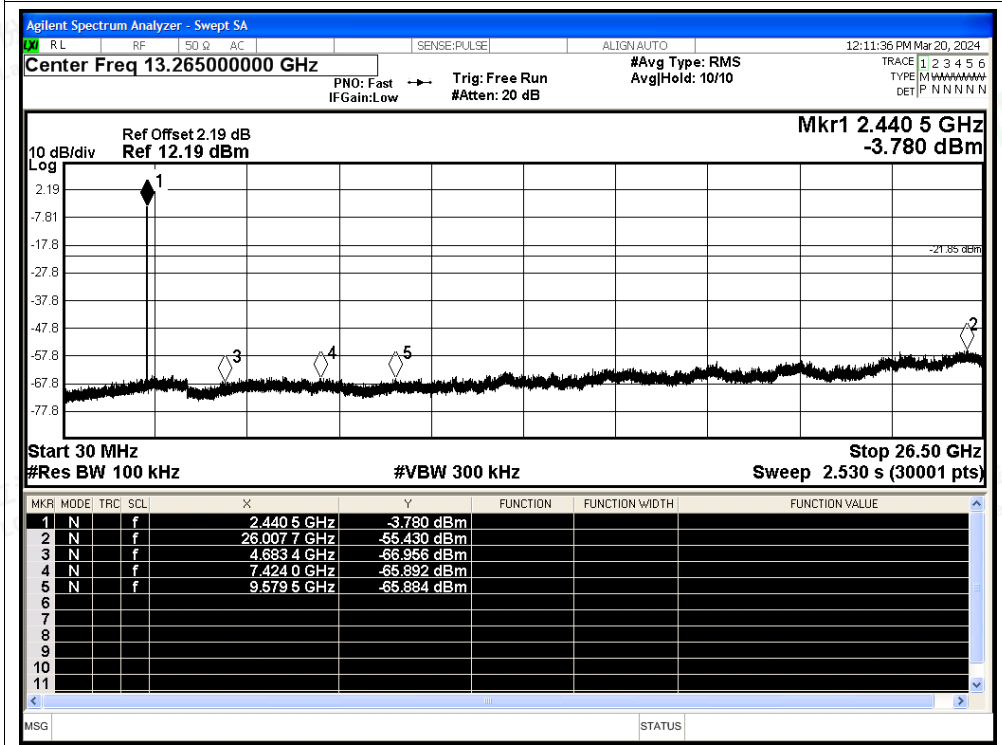




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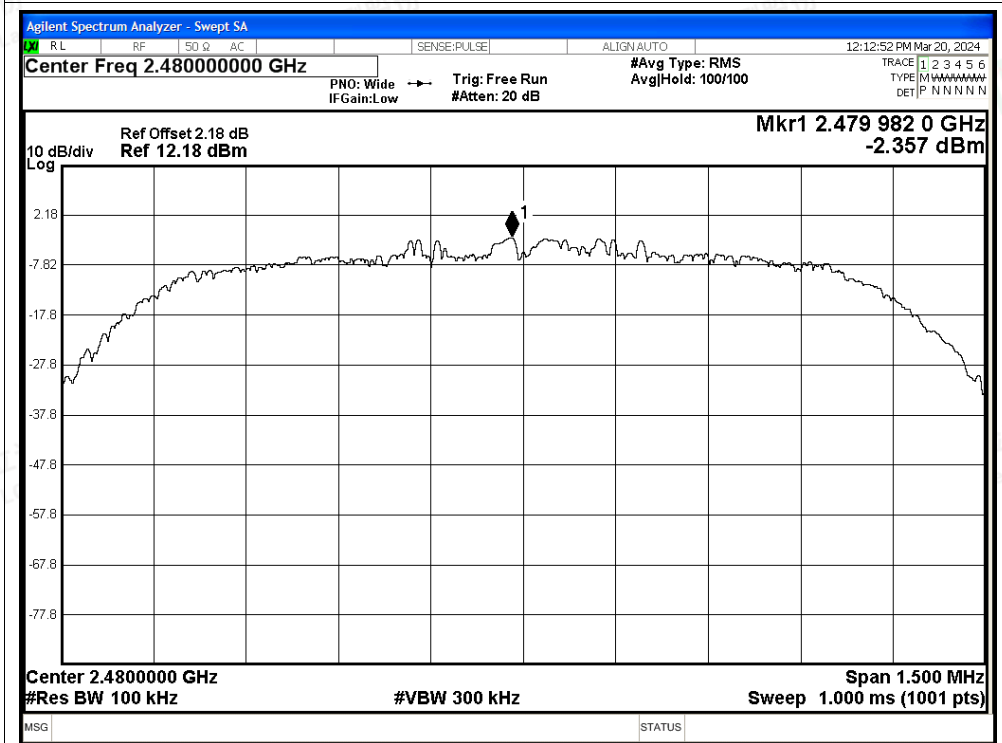


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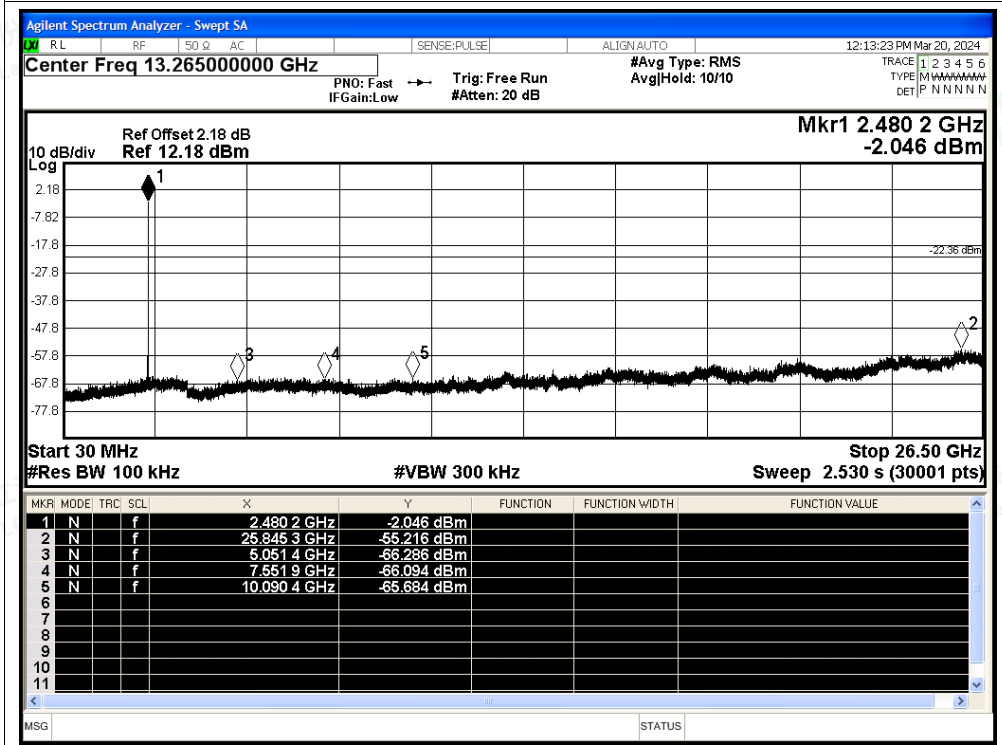




Tx. Spurious NVNT 2-DH5 2480MHz BT ANT Ref

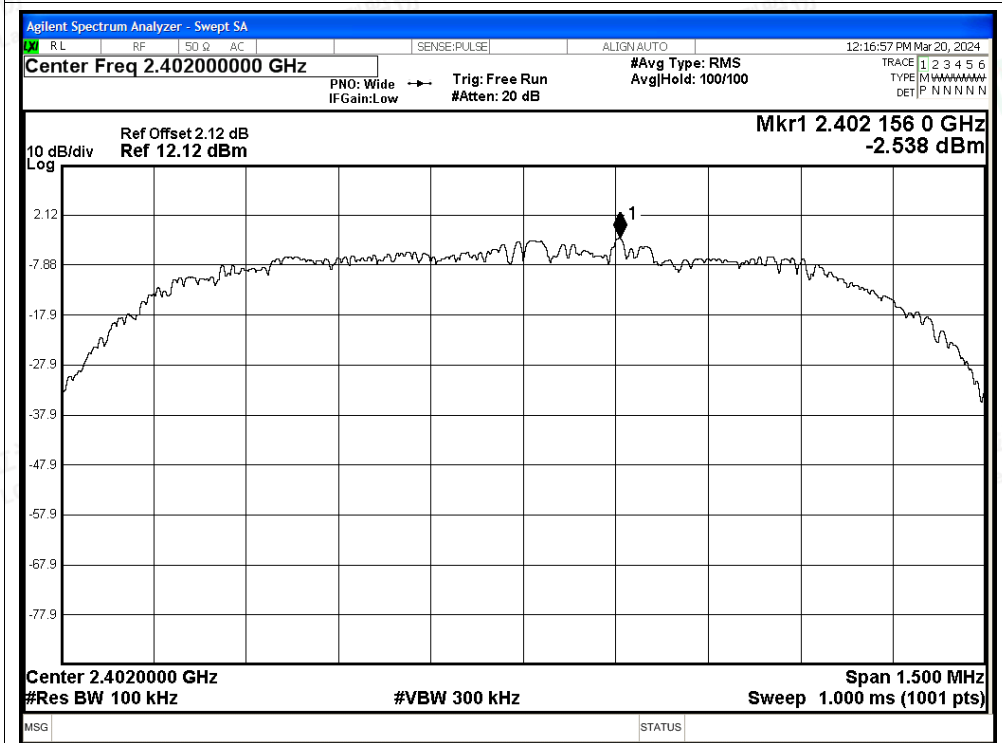


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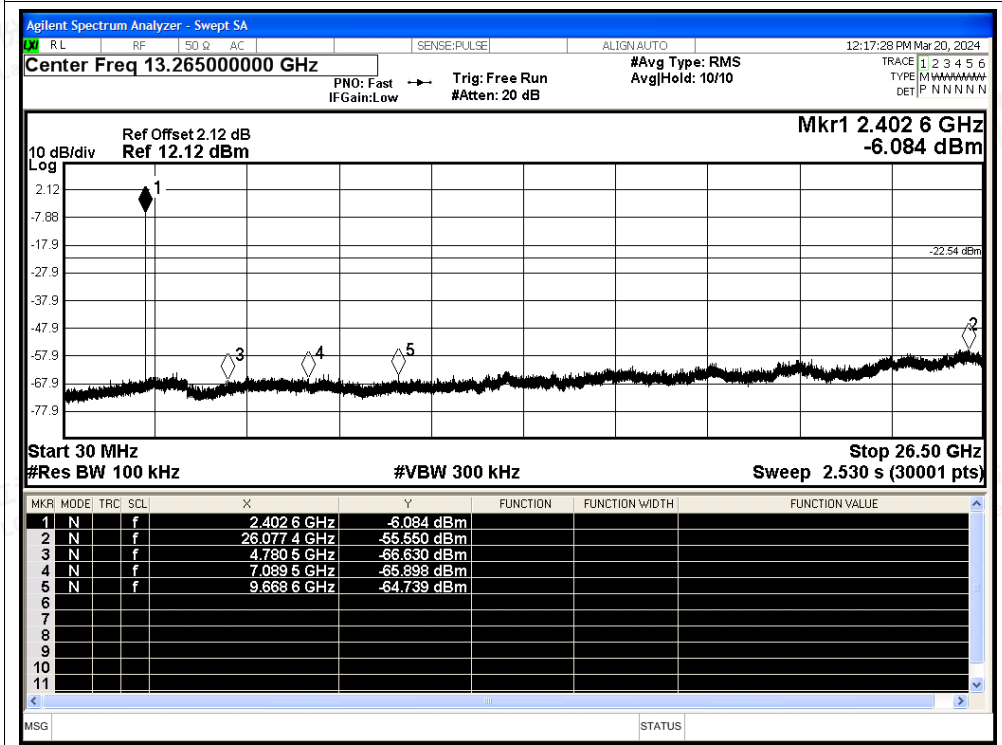




Tx. Spurious NVNT 3-DH5 2402MHz BT ANT Ref



Tx. Spurious NVNT 3-DH5 2402MHz BT ANT Emission



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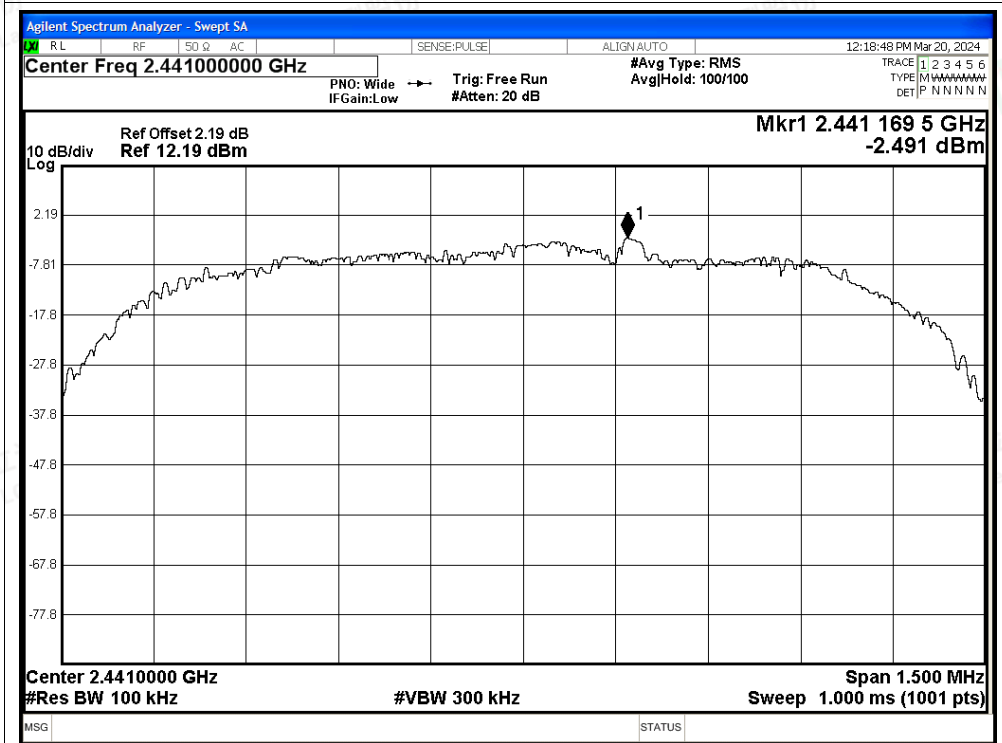
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

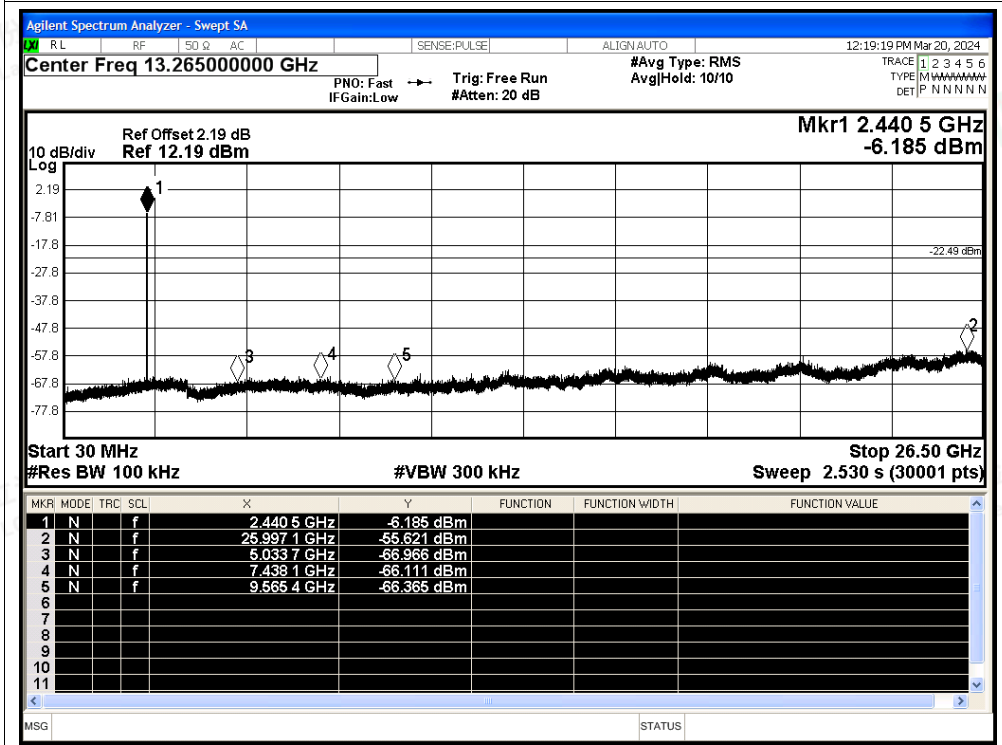
Scan code to check authenticity



Tx. Spurious NVNT 3-DH5 2441MHz BT ANT Ref

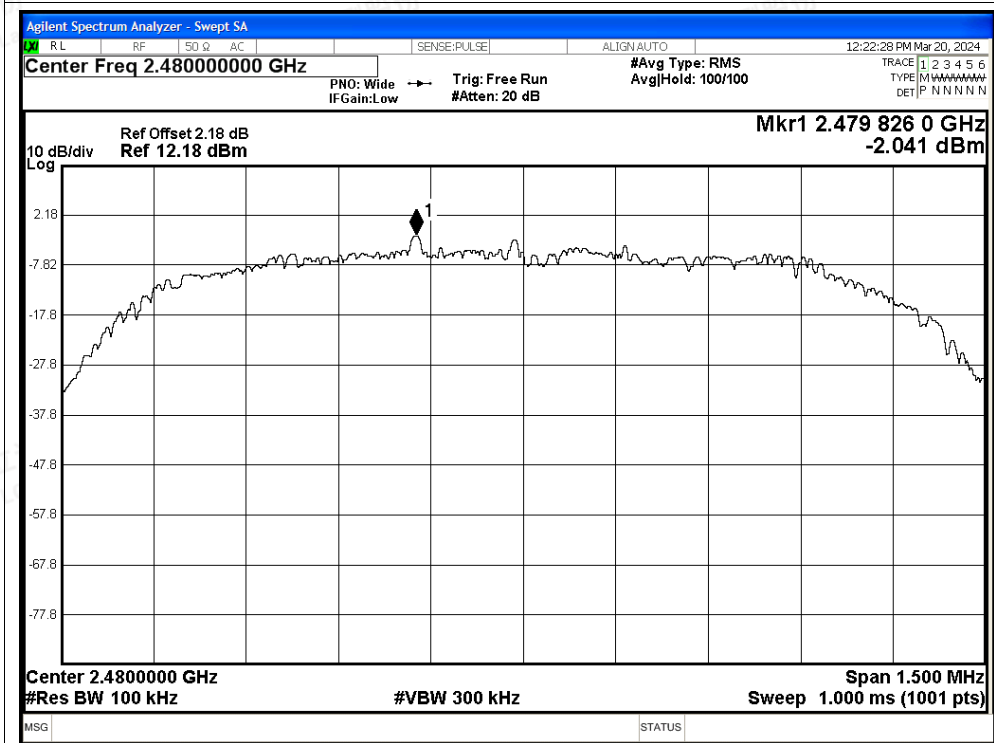


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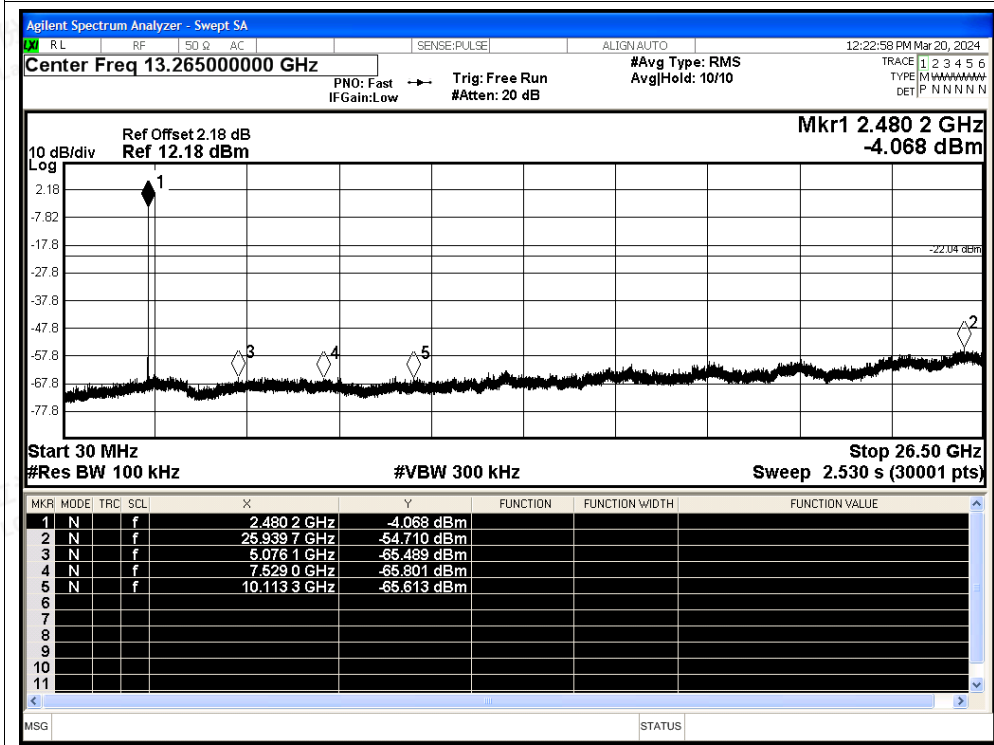




Tx. Spurious NVNT 3-DH5 2480MHz BT ANT Ref



Tx. Spurious NVNT 3-DH5 2480MHz BT ANT Emission



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A.8 Duty Cycle

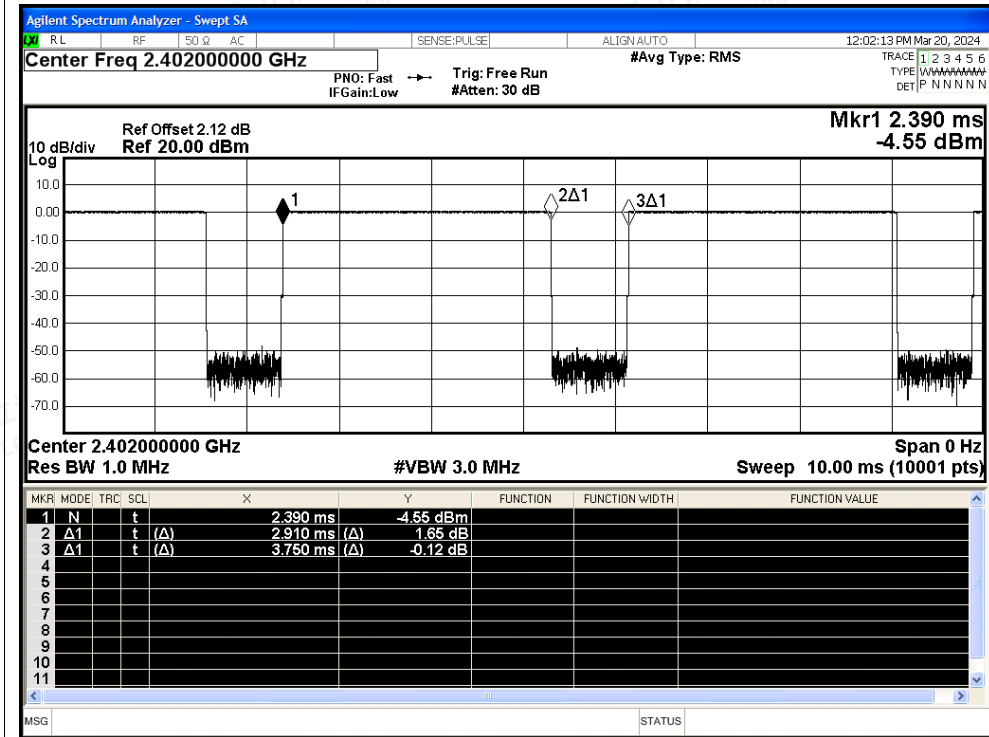
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	BT ANT	77.6	1.1	0.34
NVNT	1-DH5	2441	BT ANT	77.6	1.1	0.34
NVNT	1-DH5	2480	BT ANT	77.6	1.1	0.34
NVNT	2-DH5	2402	BT ANT	76.38	1.17	0.36
NVNT	2-DH5	2441	BT ANT	76.41	1.17	0.36
NVNT	2-DH5	2480	BT ANT	76.43	1.17	0.36
NVNT	3-DH5	2402	BT ANT	76.35	1.17	0.36
NVNT	3-DH5	2441	BT ANT	76.4	1.17	0.36
NVNT	3-DH5	2480	BT ANT	76.38	1.17	0.36



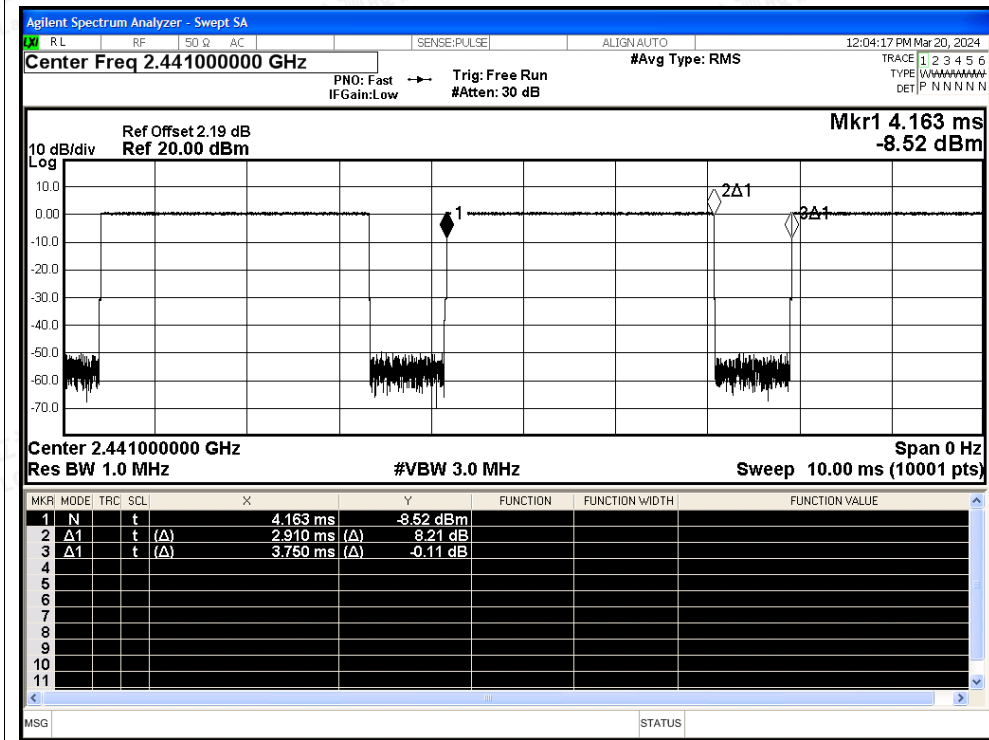


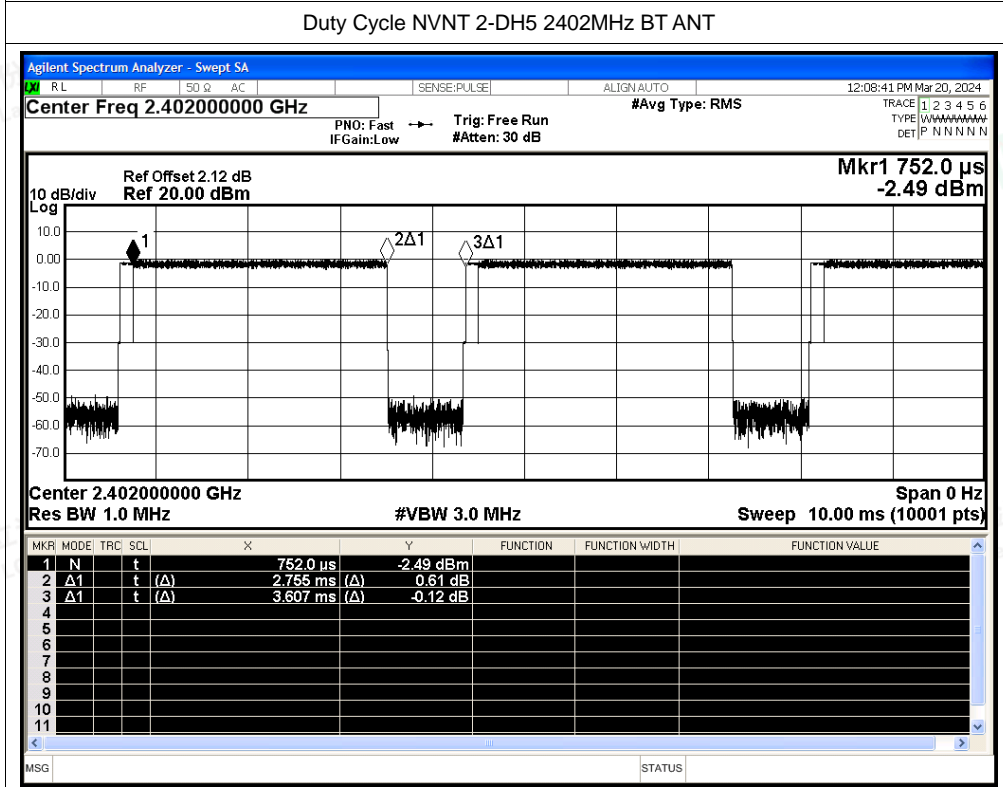
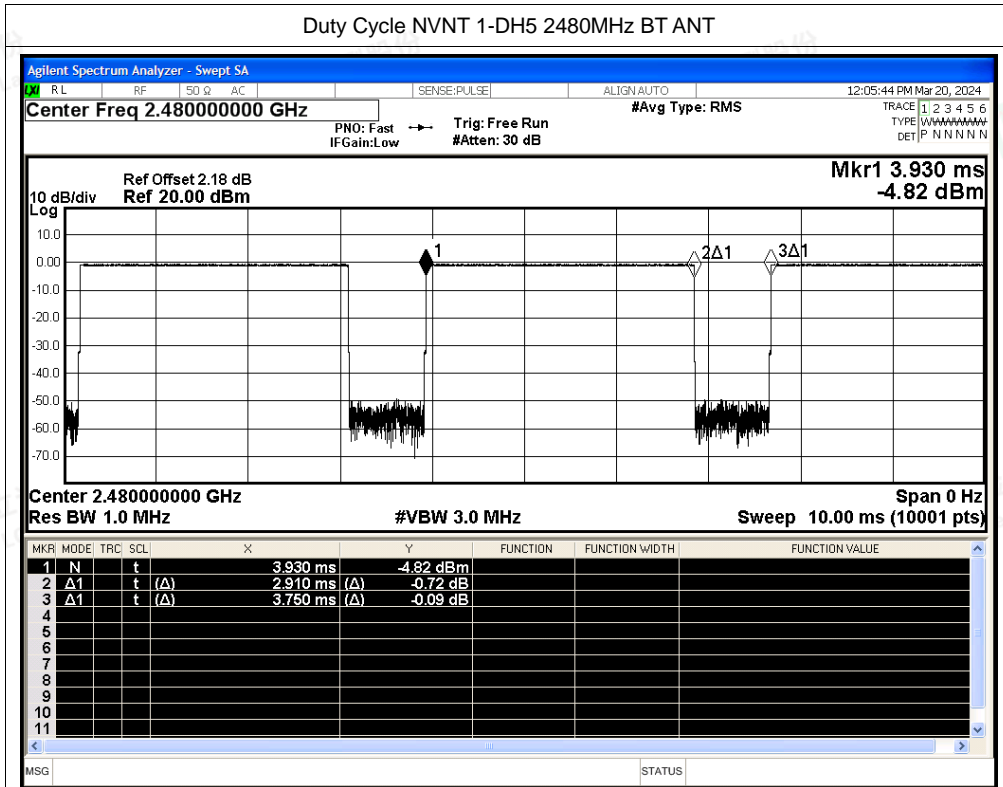
Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz BT ANT



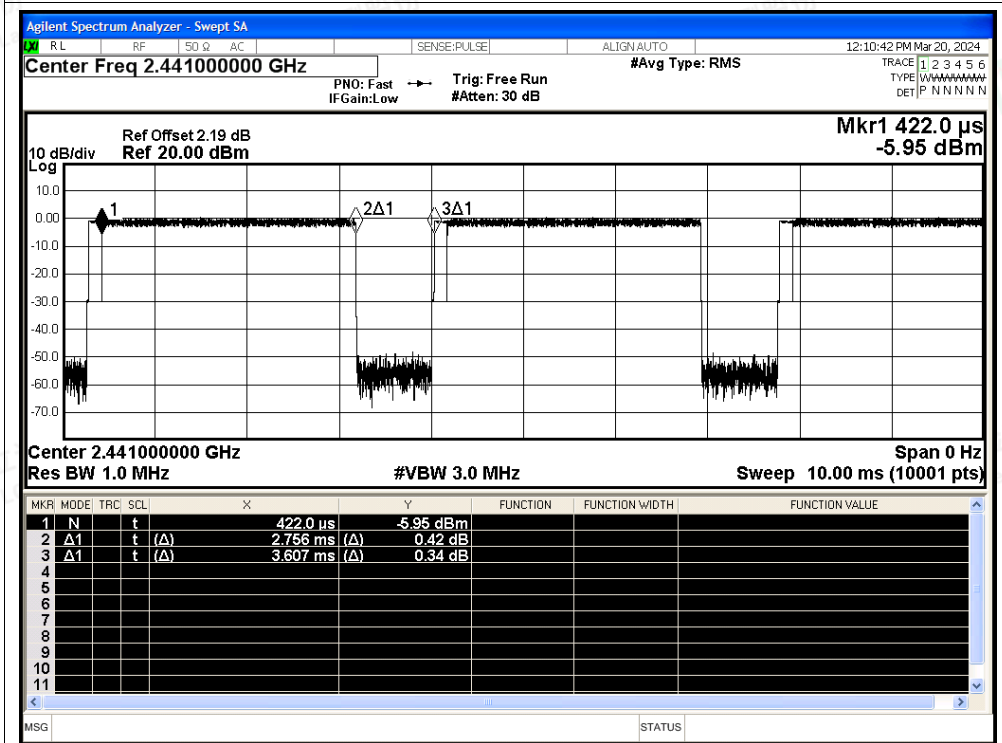
Duty Cycle NVNT 1-DH5 2441MHz BT ANT



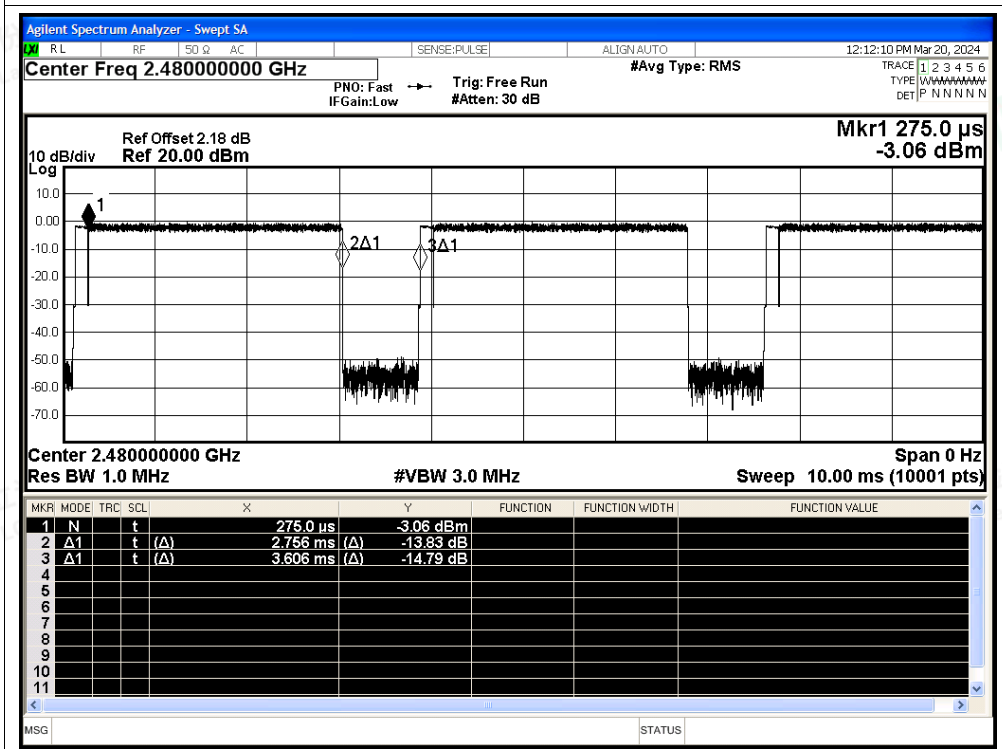




Duty Cycle NVNT 2-DH5 2441MHz BT ANT

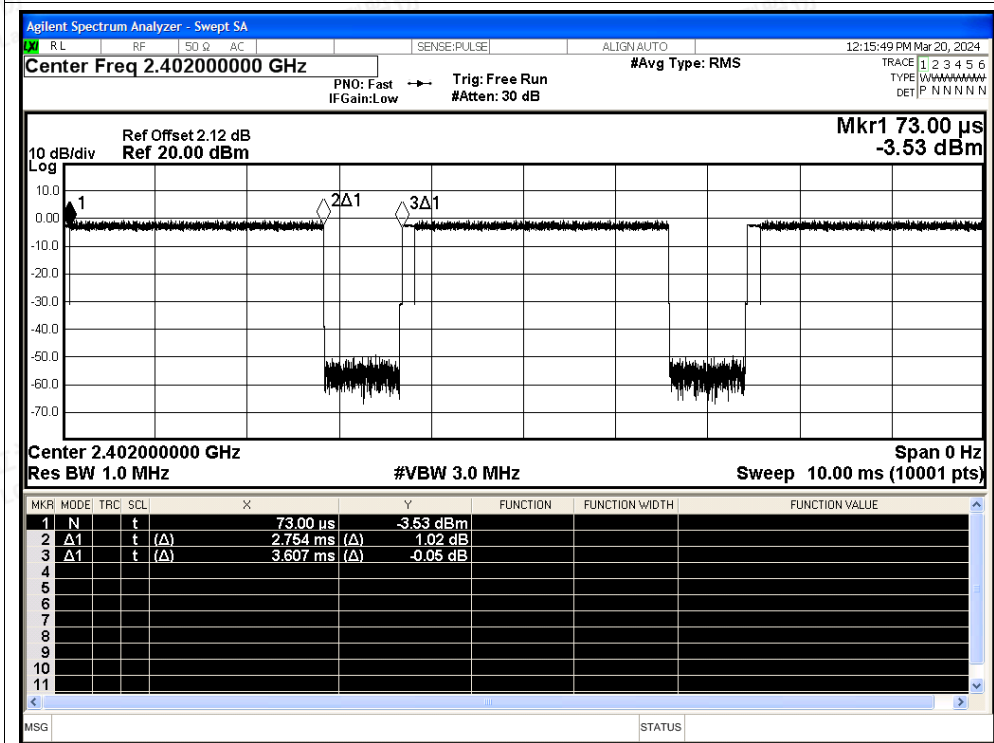


Duty Cycle NVNT 2-DH5 2480MHz BT ANT

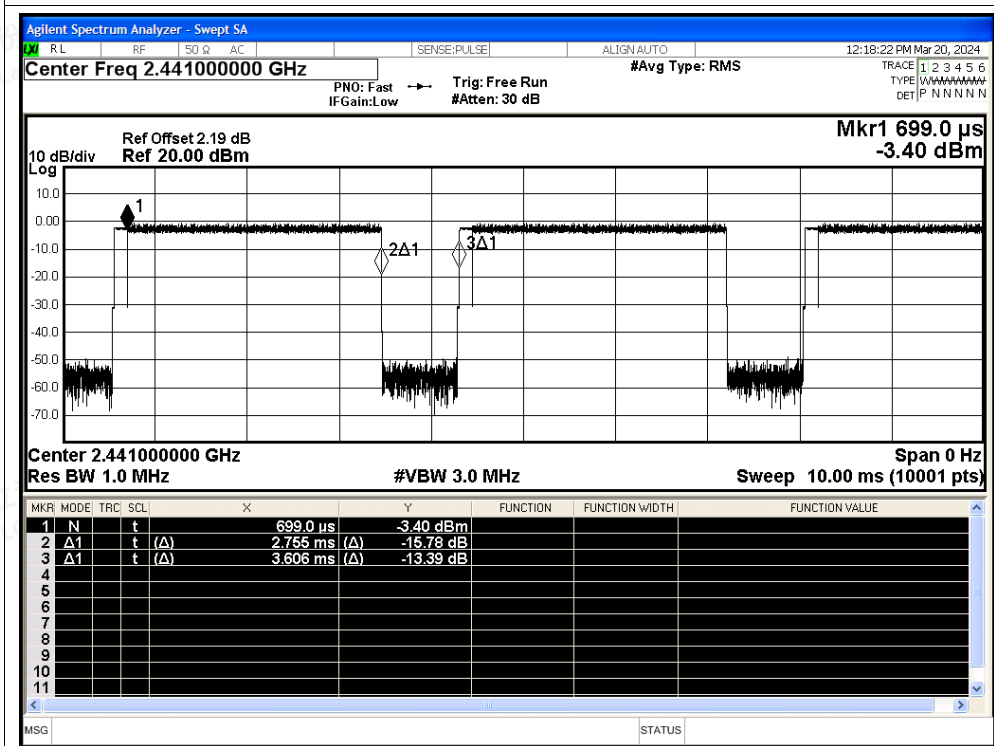


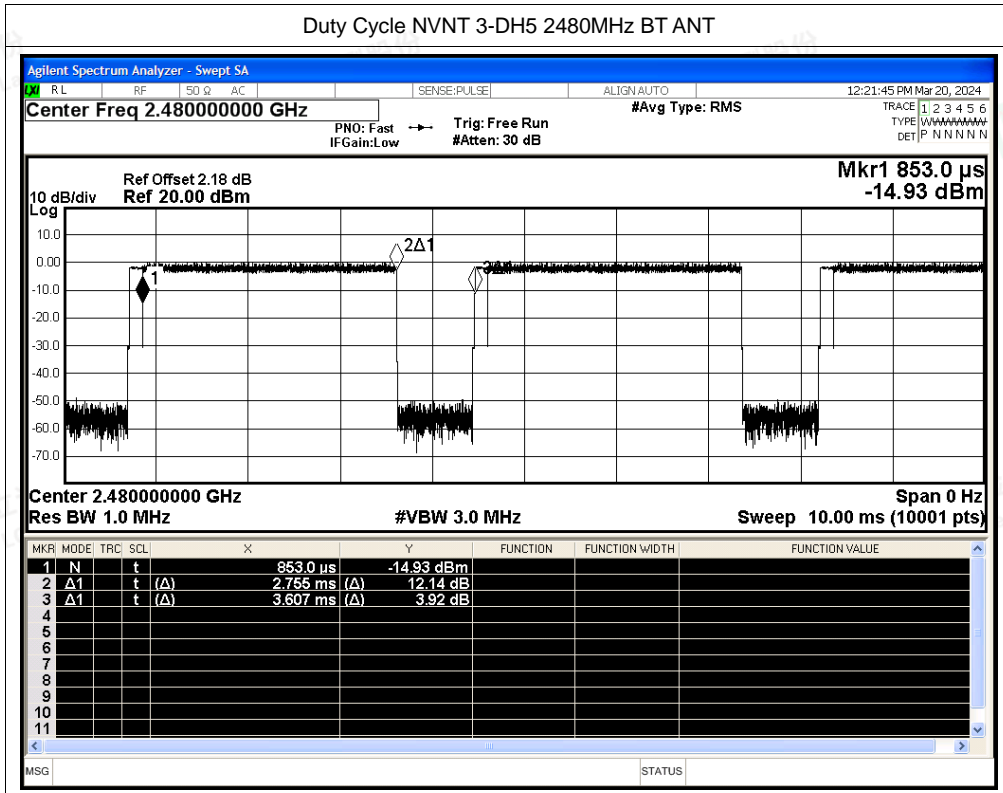


Duty Cycle NVNT 3-DH5 2402MHz BT ANT



Duty Cycle NVNT 3-DH5 2441MHz BT ANT







A.9 Restrict Band

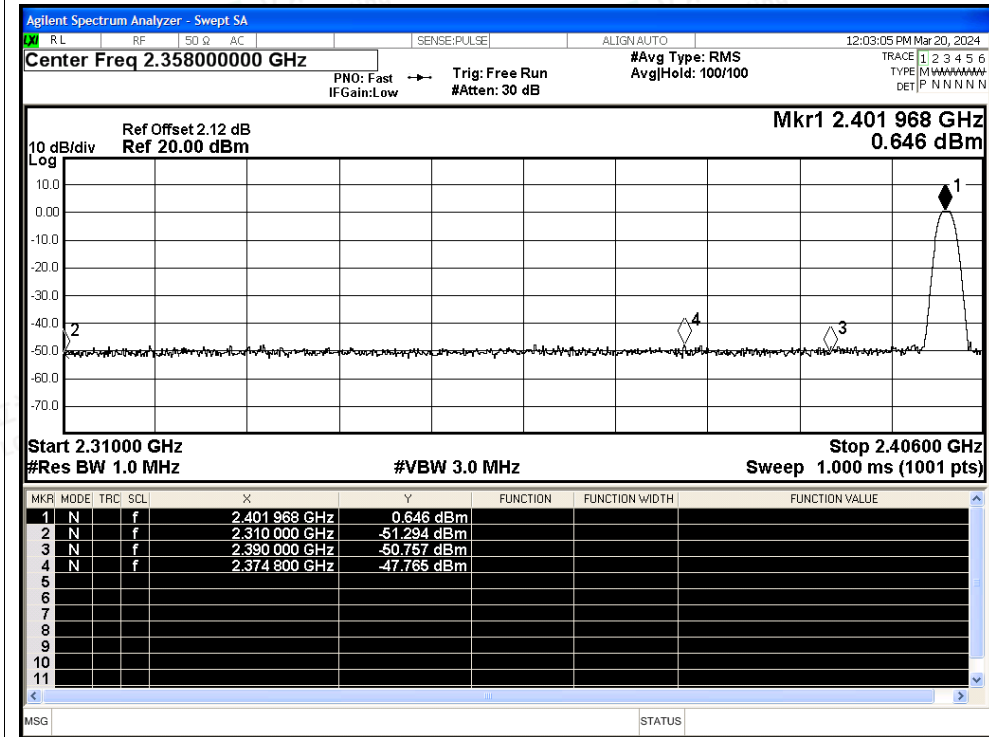
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	BT ANT	No-Hopping	2310	-51.29	2.70	-	46.67	Peak	74	Pass
NVNT	1-DH5	2402	BT ANT	No-Hopping	2310	-58.57	2.70	1.1	40.49	Average	54	Pass
NVNT	1-DH5	2402	BT ANT	No-Hopping	2374.8	-47.77	2.70	-	50.19	Peak	74	Pass
NVNT	1-DH5	2402	BT ANT	No-Hopping	2368.56	-57.68	2.70	1.1	41.38	Average	54	Pass
NVNT	1-DH5	2402	BT ANT	No-Hopping	2390	-50.76	2.70	-	47.20	Peak	74	Pass
NVNT	1-DH5	2402	BT ANT	No-Hopping	2390	-58.3	2.70	1.1	40.76	Average	54	Pass
NVNT	1-DH5	2480	BT ANT	No-Hopping	2483.5	-49.63	2.70	-	48.33	Peak	74	Pass
NVNT	1-DH5	2480	BT ANT	No-Hopping	2483.5	-57.94	2.70	1.1	41.12	Average	54	Pass
NVNT	1-DH5	2480	BT ANT	No-Hopping	2484.208	-41.58	2.70	-	56.38	Peak	74	Pass
NVNT	1-DH5	2480	BT ANT	No-Hopping	2484.16	-56.44	2.70	1.1	42.62	Average	54	Pass
NVNT	1-DH5	2480	BT ANT	No-Hopping	2500	-50.23	2.70	-	47.73	Peak	74	Pass
NVNT	1-DH5	2480	BT ANT	No-Hopping	2500	-57.69	2.70	1.1	41.37	Average	54	Pass
NVNT	2-DH5	2402	BT ANT	No-Hopping	2310	-50.94	2.70	-	47.02	Peak	74	Pass
NVNT	2-DH5	2402	BT ANT	No-Hopping	2310	-59.04	2.70	1.17	40.09	Average	54	Pass
NVNT	2-DH5	2402	BT ANT	No-Hopping	2389.584	-47.57	2.70	-	50.39	Peak	74	Pass
NVNT	2-DH5	2402	BT ANT	No-Hopping	2378.448	-57.5	2.70	1.17	41.63	Average	54	Pass
NVNT	2-DH5	2402	BT ANT	No-Hopping	2390	-49.87	2.70	-	48.09	Peak	74	Pass
NVNT	2-DH5	2402	BT ANT	No-Hopping	2390	-58.07	2.70	1.17	41.06	Average	54	Pass
NVNT	2-DH5	2480	BT ANT	No-Hopping	2483.5	-51.09	2.70	-	46.87	Peak	74	Pass
NVNT	2-DH5	2480	BT ANT	No-Hopping	2483.5	-57.95	2.70	1.17	41.18	Average	54	Pass
NVNT	2-DH5	2480	BT ANT	No-Hopping	2484.76	-41.92	2.70	-	56.04	Peak	74	Pass
NVNT	2-DH5	2480	BT ANT	No-Hopping	2483.656	-56.78	2.70	1.17	42.35	Average	54	Pass
NVNT	2-DH5	2480	BT ANT	No-Hopping	2500	-50.73	2.70	-	47.23	Peak	74	Pass
NVNT	2-DH5	2480	BT ANT	No-Hopping	2500	-58.15	2.70	1.17	40.98	Average	54	Pass
NVNT	3-DH5	2402	BT ANT	No-Hopping	2310	-50.98	2.70	-	46.98	Peak	74	Pass
NVNT	3-DH5	2402	BT ANT	No-Hopping	2310	-58.88	2.70	1.17	40.25	Average	54	Pass
NVNT	3-DH5	2402	BT ANT	No-Hopping	2376.144	-46.82	2.70	-	51.14	Peak	74	Pass
NVNT	3-DH5	2402	BT ANT	No-Hopping	2389.392	-57.67	2.70	1.17	41.46	Average	54	Pass
NVNT	3-DH5	2402	BT ANT	No-Hopping	2390	-48.59	2.70	-	49.37	Peak	74	Pass
NVNT	3-DH5	2402	BT ANT	No-Hopping	2390	-58.41	2.70	1.17	40.72	Average	54	Pass
NVNT	3-DH5	2480	BT ANT	No-Hopping	2483.5	-49.05	2.70	-	48.91	Peak	74	Pass
NVNT	3-DH5	2480	BT ANT	No-Hopping	2483.5	-58.34	2.70	1.17	40.79	Average	54	Pass
NVNT	3-DH5	2480	BT ANT	No-Hopping	2489.104	-46.58	2.70	-	51.38	Peak	74	Pass
NVNT	3-DH5	2480	BT ANT	No-Hopping	2494.432	-57.21	2.70	1.17	41.92	Average	54	Pass
NVNT	3-DH5	2480	BT ANT	No-Hopping	2500	-47.94	2.70	-	50.02	Peak	74	Pass
NVNT	3-DH5	2480	BT ANT	No-Hopping	2500	-57.84	2.70	1.17	41.29	Average	54	Pass



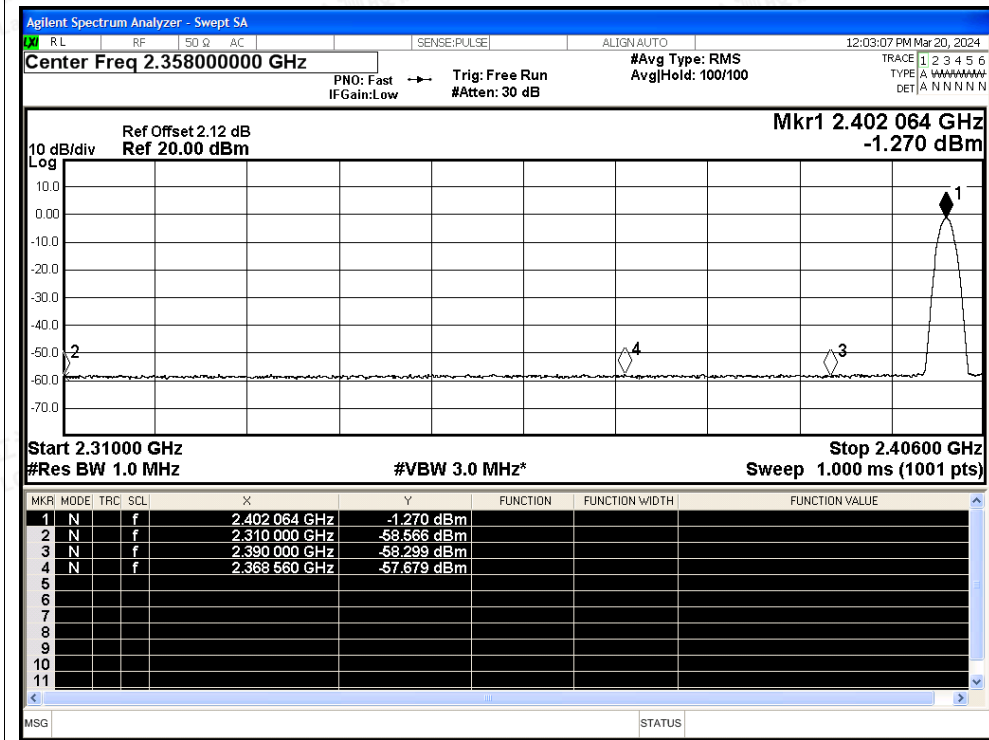


Test Graphs

Restrict Band NVNT 1-DH5 2402MHz BT ANT No-Hopping Peak

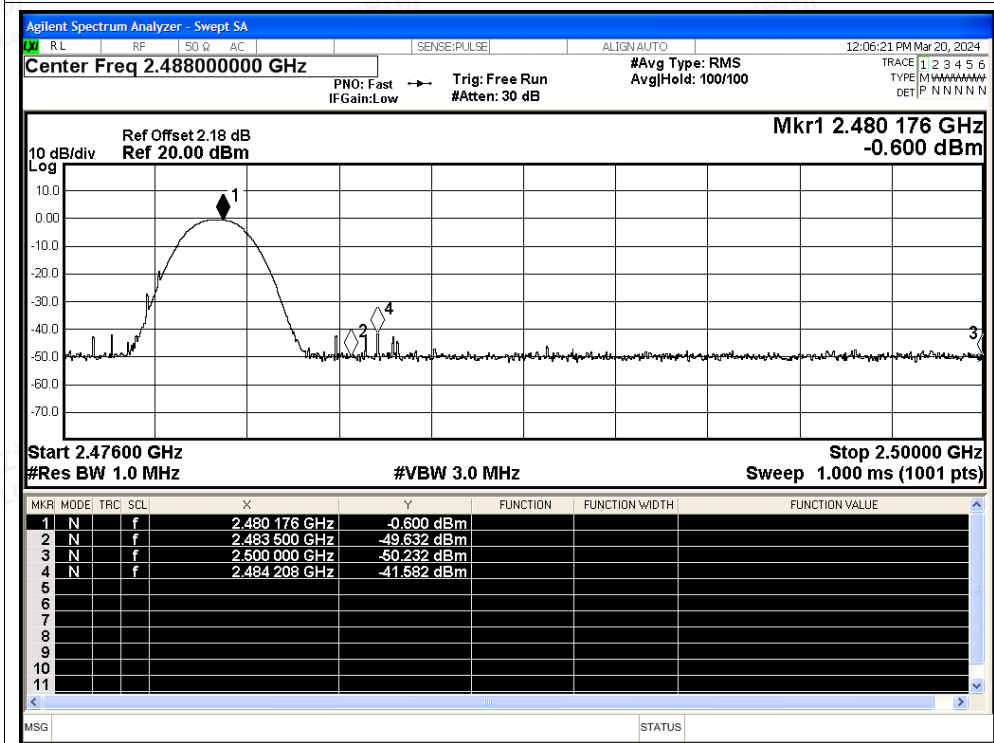


Restrict Band NVNT 1-DH5 2402MHz BT ANT No-Hopping Average

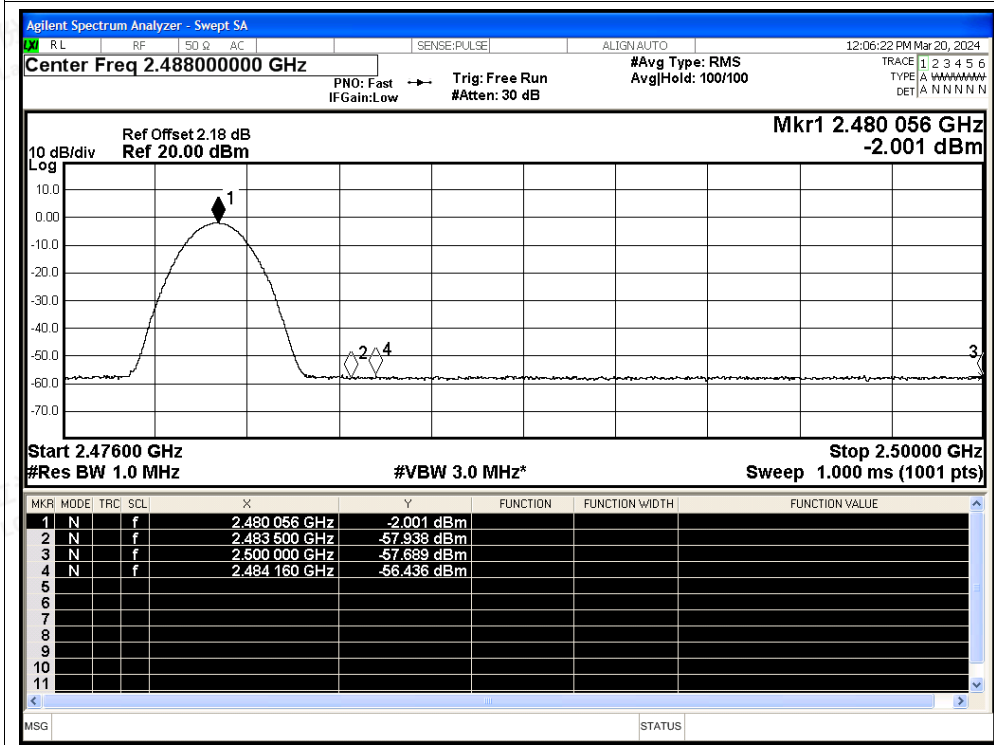




Restrict Band NVNT 1-DH5 2480MHz BT ANT No-Hopping Peak

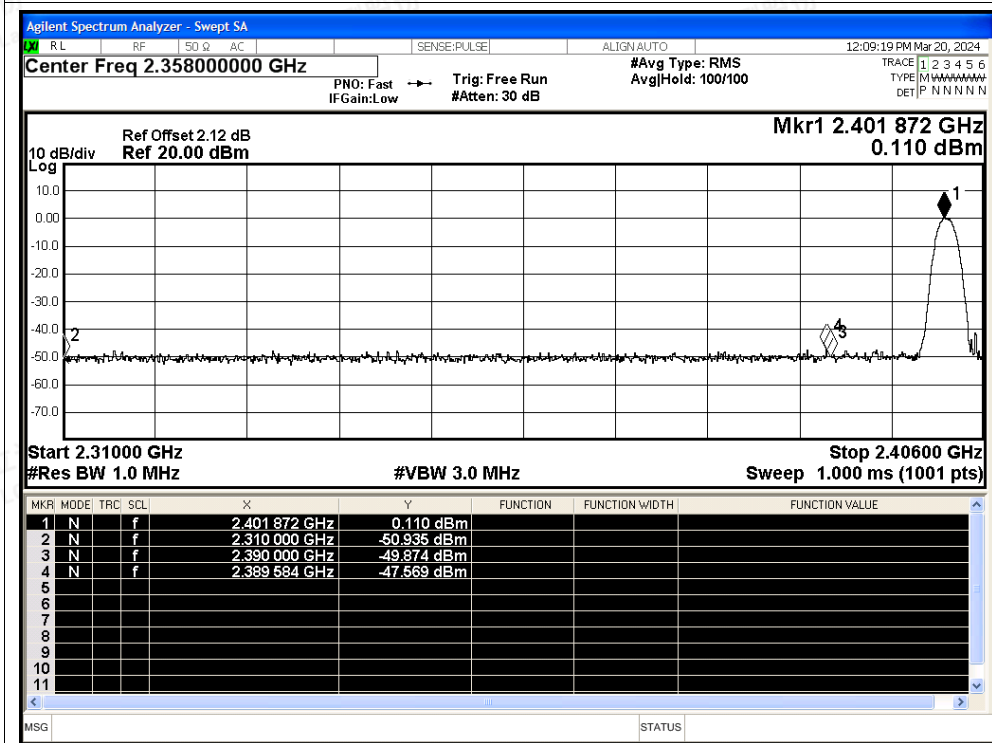


Restrict Band NVNT 1-DH5 2480MHz BT ANT No-Hopping Average

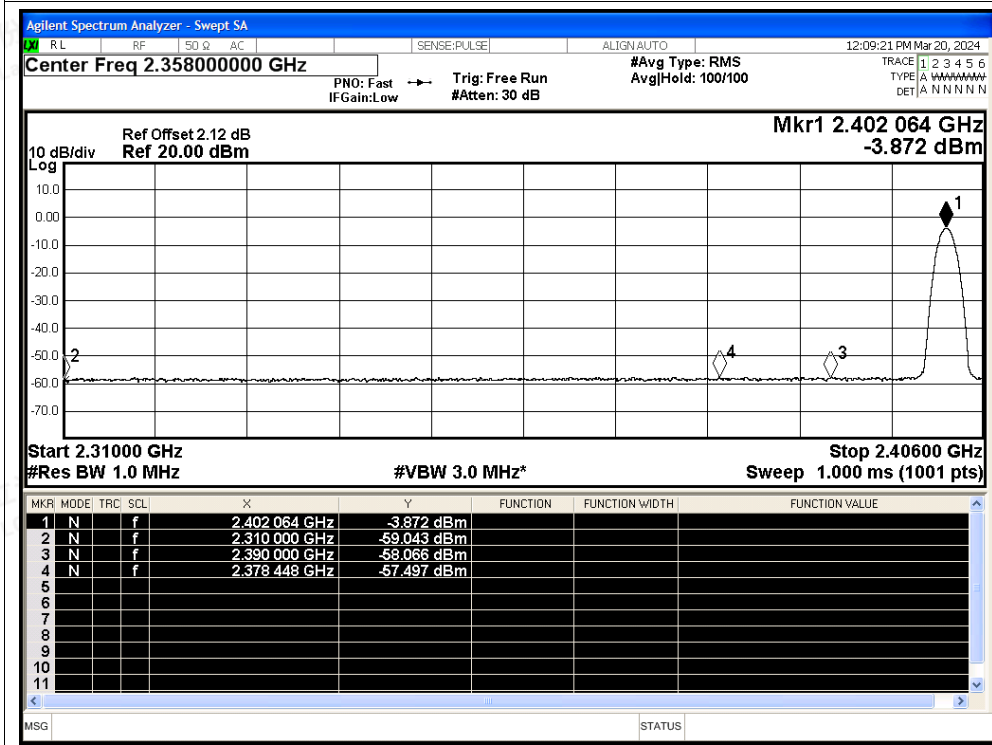




Restrict Band NVNT 2-DH5 2402MHz BT ANT No-Hopping Peak

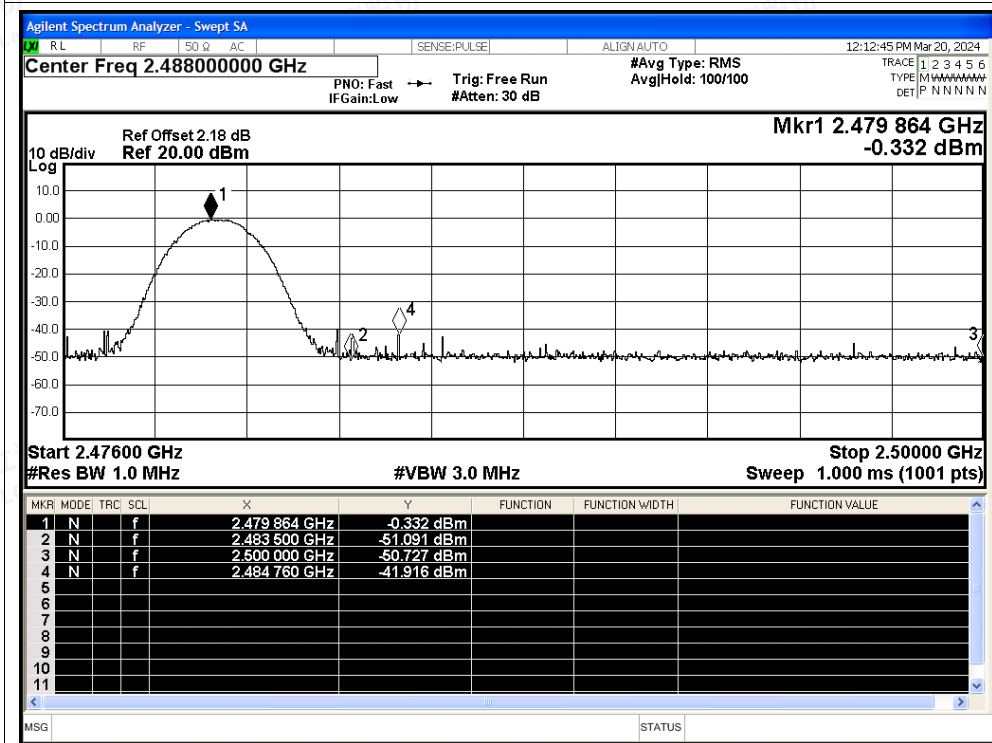


Restrict Band NVNT 2-DH5 2402MHz BT ANT No-Hopping Average

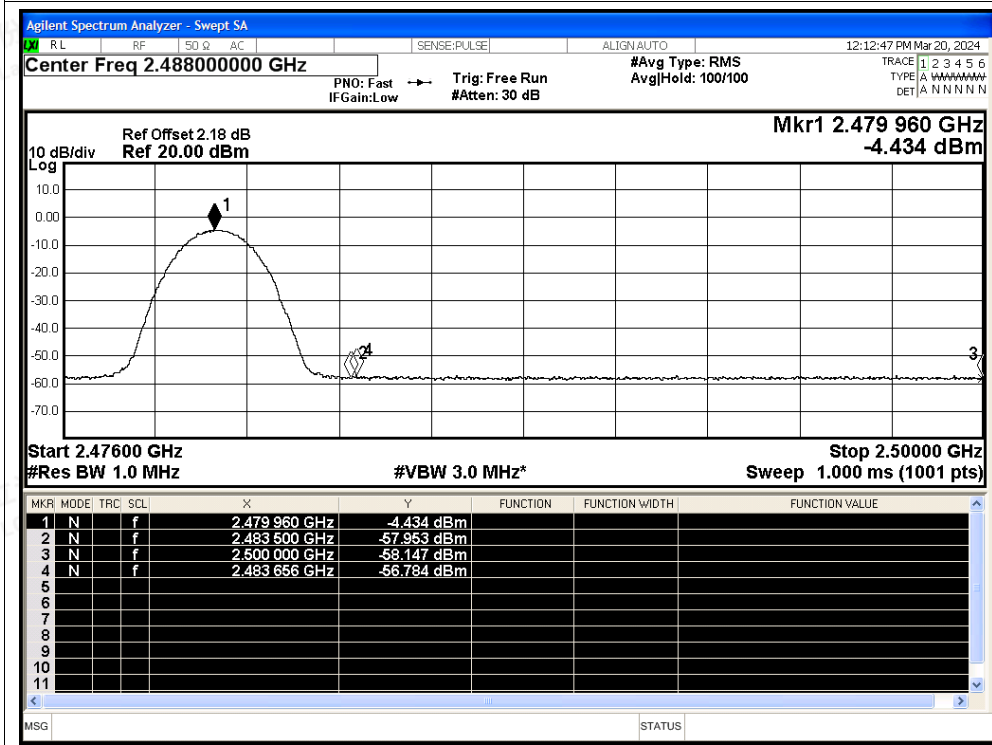




Restrict Band NVNT 2-DH5 2480MHz BT ANT No-Hopping Peak

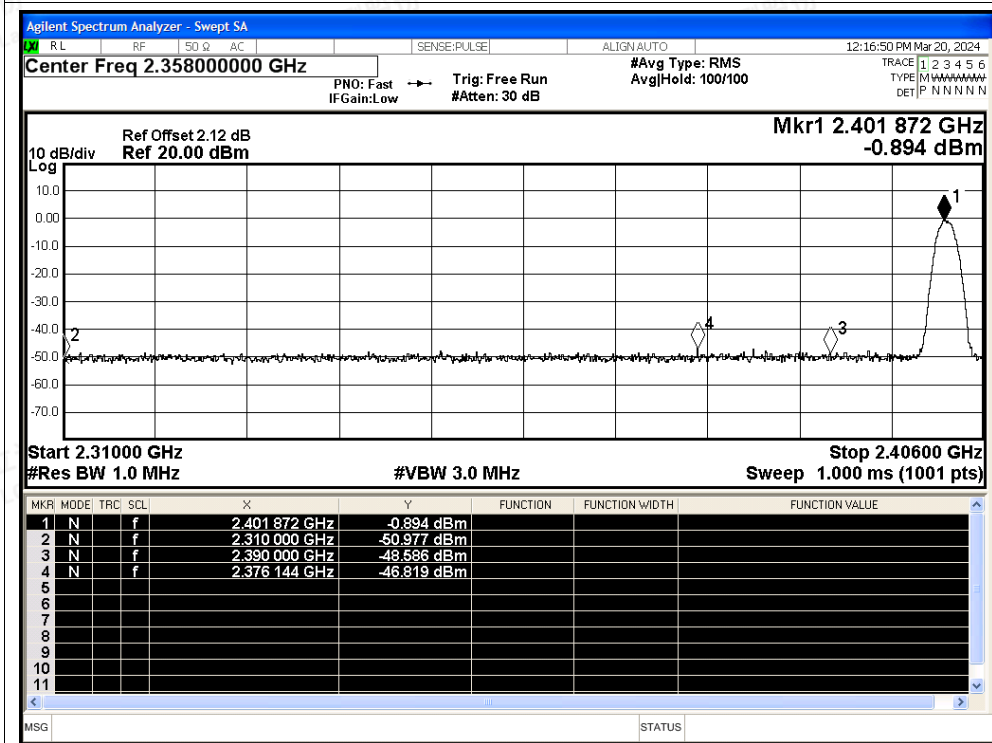


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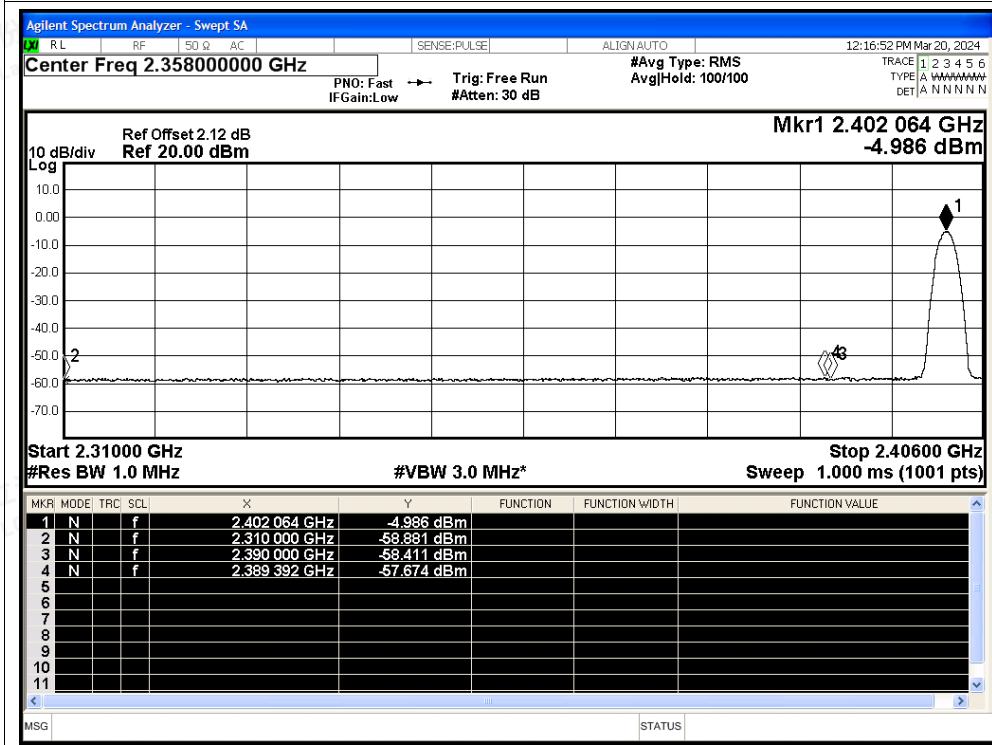




Restrict Band NVNT 3-DH5 2402MHz BT ANT No-Hopping Peak



Restrict Band NVNT 3-DH5 2402MHz BT ANT No-Hopping Average



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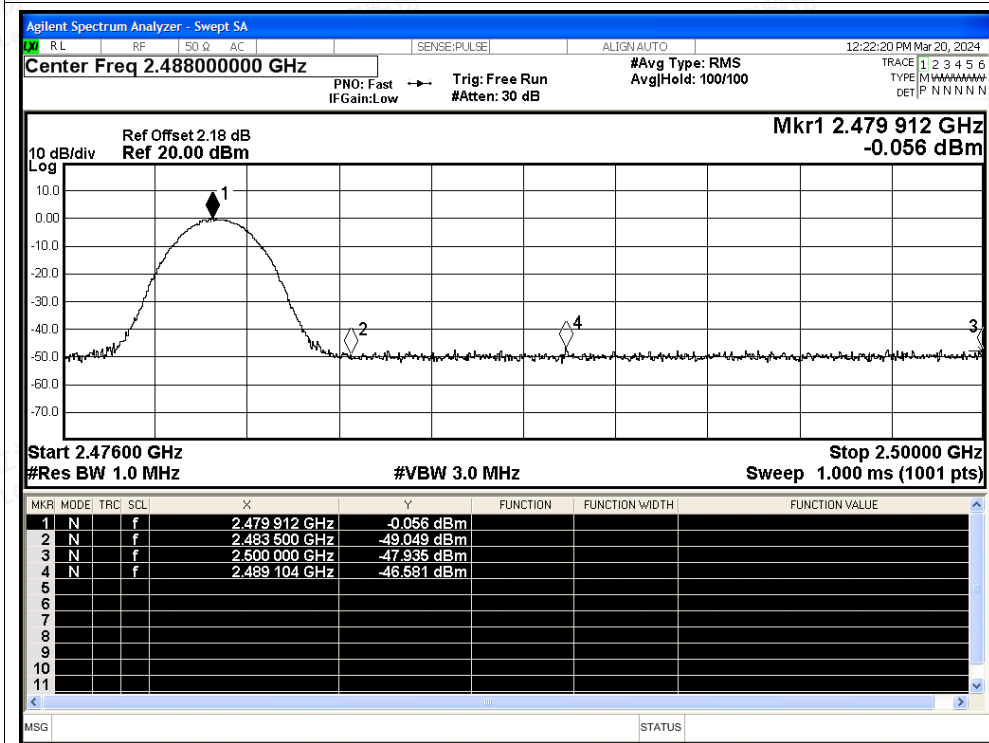
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Restrict Band NVNT 3-DH5 2480MHz BT ANT No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz BT ANT No-Hopping Average

