



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Bone conductive headphones

Test Model: DG08

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
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
HVHT	1-DH5	2402	Ant1	0.942	N/A	Pass
HVHT	1-DH5	2441	Ant1	0.942	N/A	Pass
HVHT	1-DH5	2480	Ant1	0.966	N/A	Pass
HVHT	2-DH5	2402	Ant1	1.276	N/A	Pass
HVHT	2-DH5	2441	Ant1	1.282	N/A	Pass
HVHT	2-DH5	2480	Ant1	1.284	N/A	Pass



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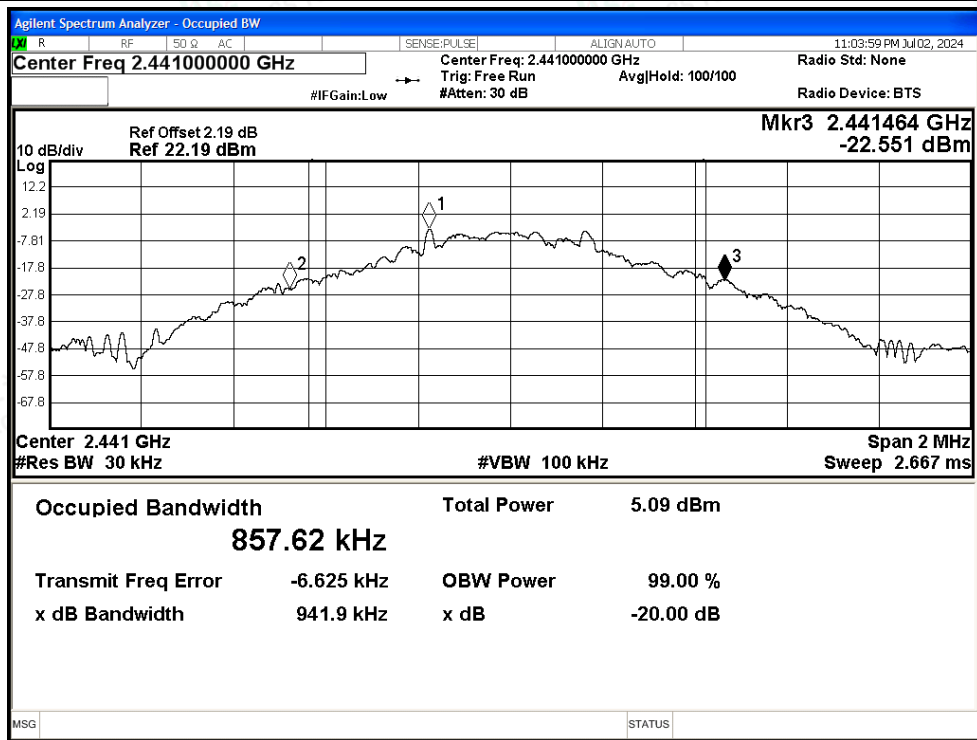


Test Graphs

-20dB Bandwidth HVHT 1-DH5 2402MHz Ant1

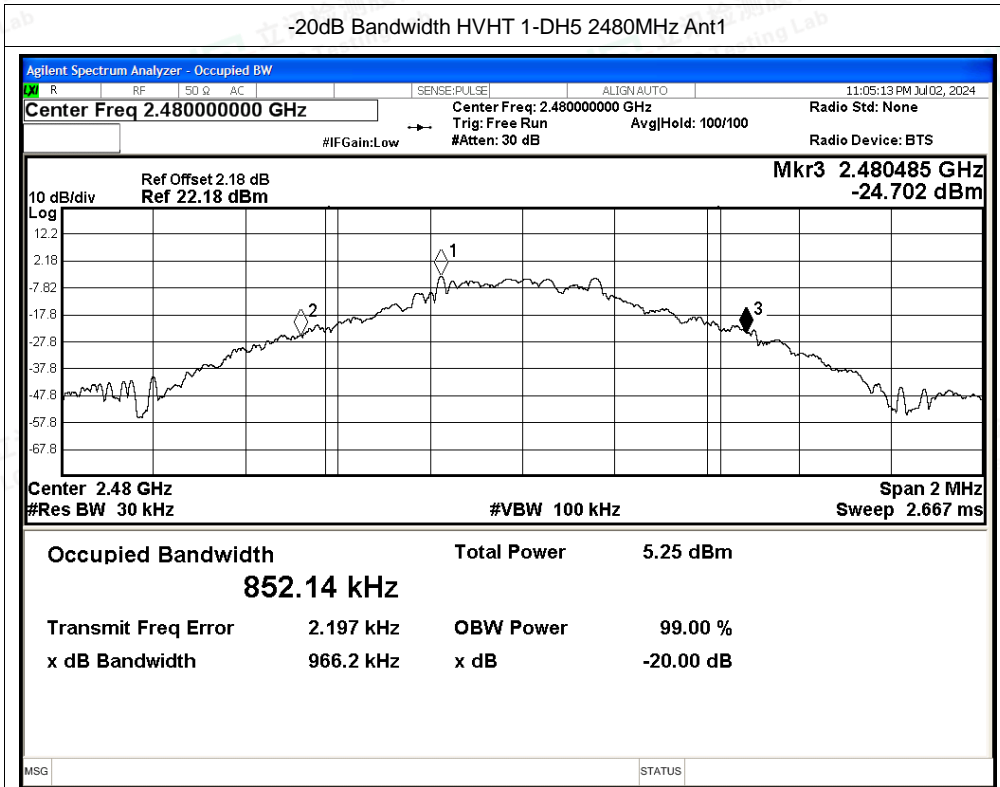


-20dB Bandwidth HVHT 1-DH5 2441MHz Ant1

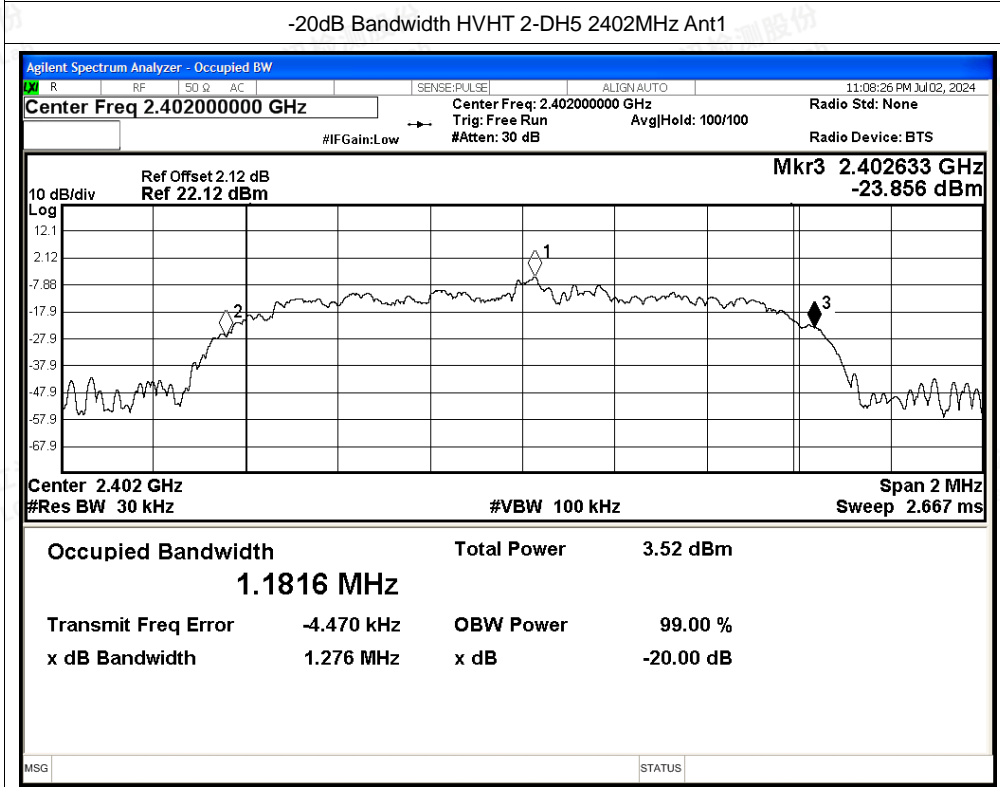




-20dB Bandwidth HVHT 1-DH5 2480MHz Ant1

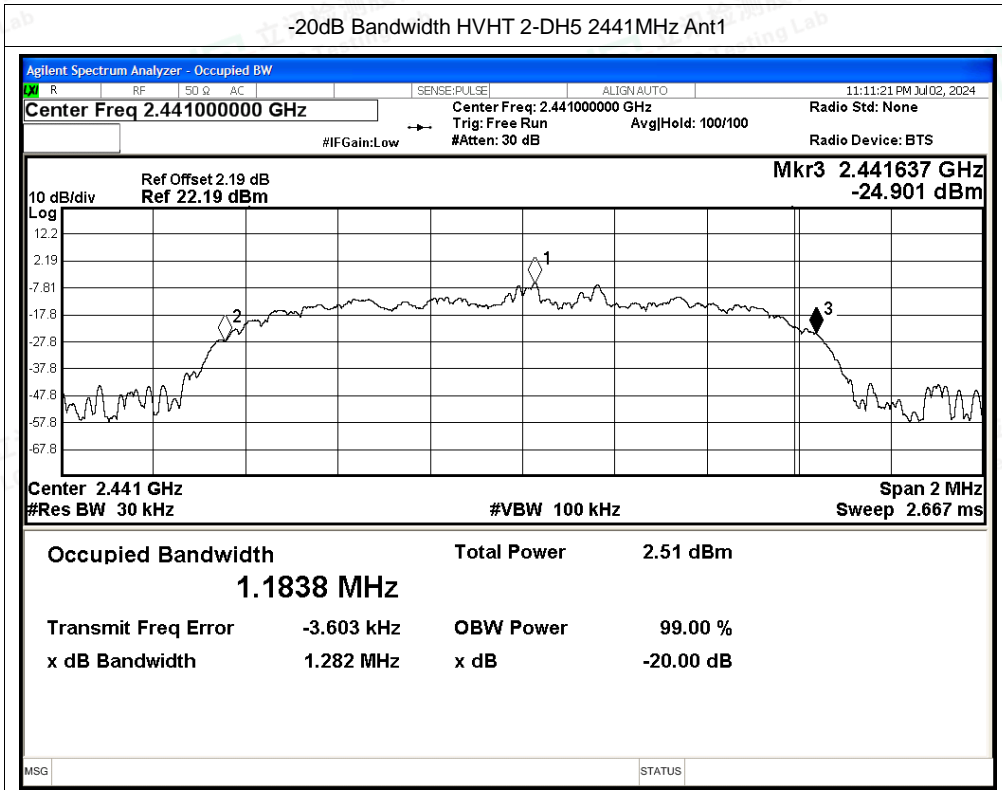


-20dB Bandwidth HVHT 2-DH5 2402MHz Ant1

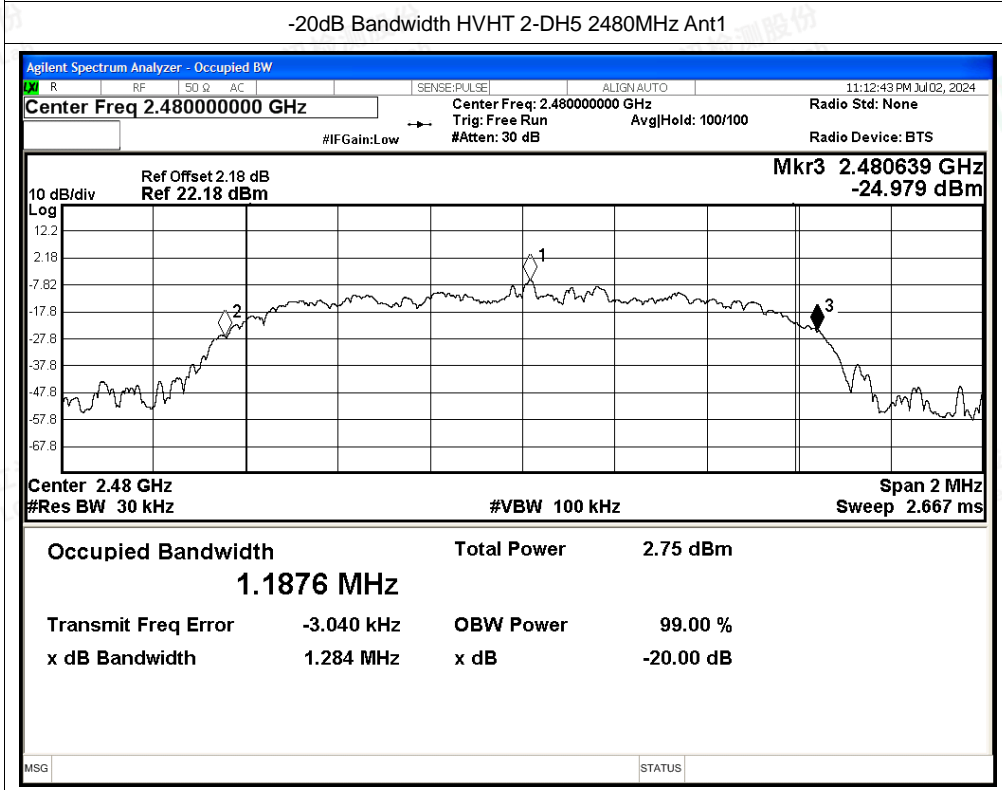




-20dB Bandwidth HVHT 2-DH5 2441MHz Ant1



-20dB Bandwidth HVHT 2-DH5 2480MHz Ant1





A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
HVHT	1-DH5	2402	Ant1	-0.54	21	Pass
HVHT	1-DH5	2441	Ant1	-1.54	21	Pass
HVHT	1-DH5	2480	Ant1	-1.39	21	Pass
HVHT	2-DH5	2402	Ant1	-0.79	21	Pass
HVHT	2-DH5	2441	Ant1	0.62	21	Pass
HVHT	2-DH5	2480	Ant1	-1.36	21	Pass

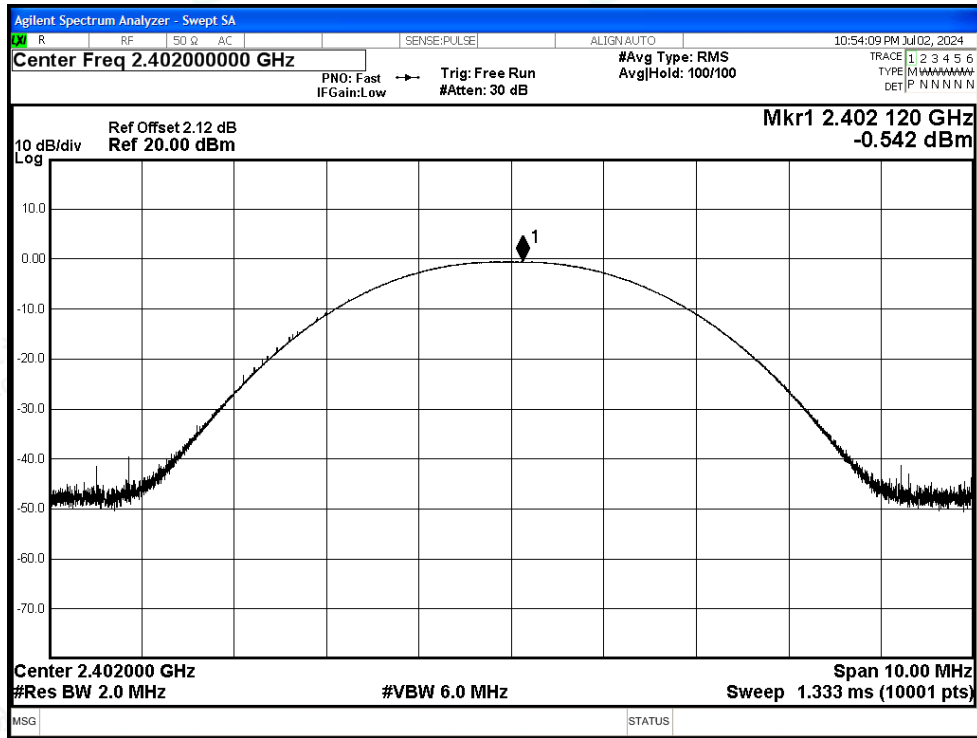


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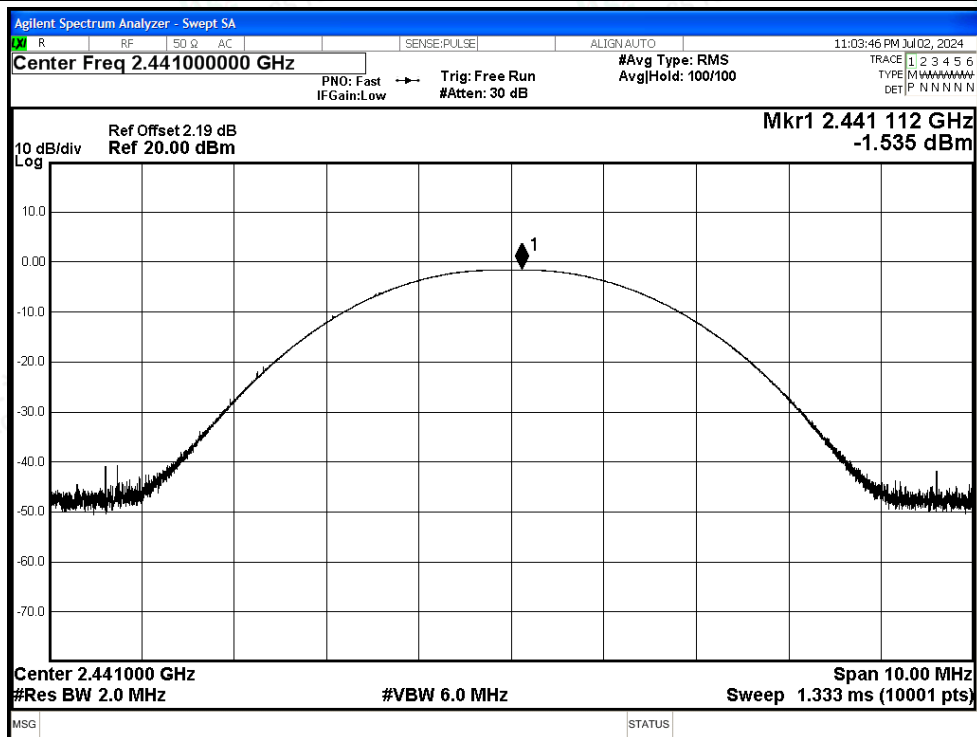


Test Graphs

Power HVHT 1-DH5 2402MHz Ant1

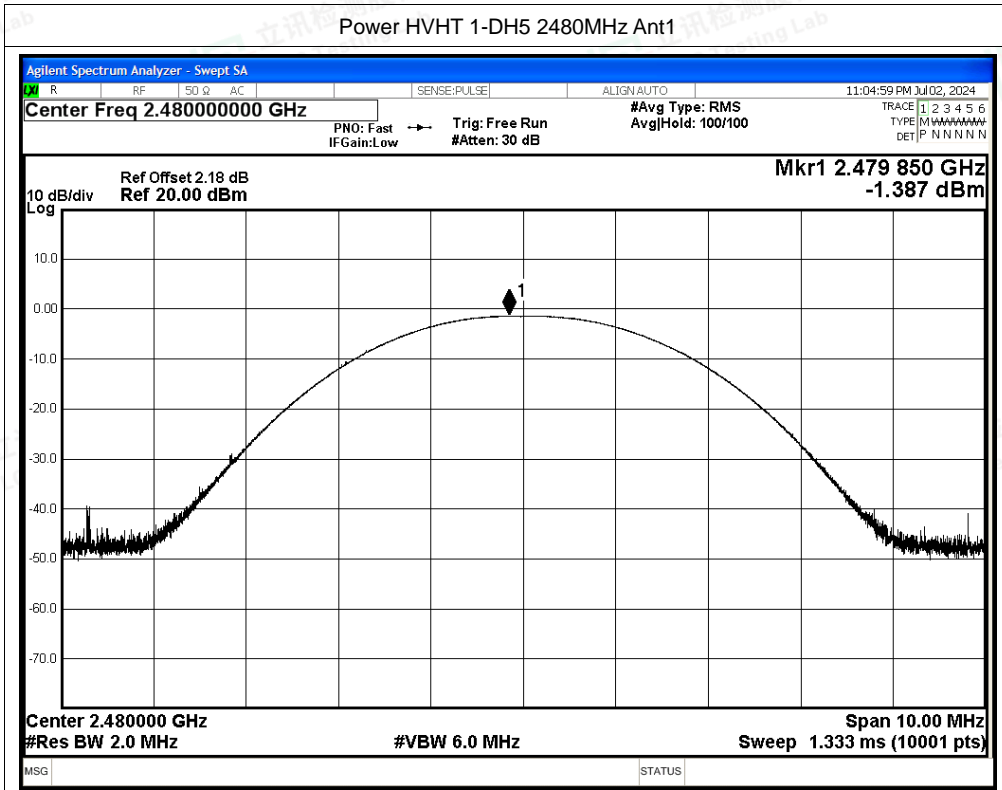


Power HVHT 1-DH5 2441MHz Ant1

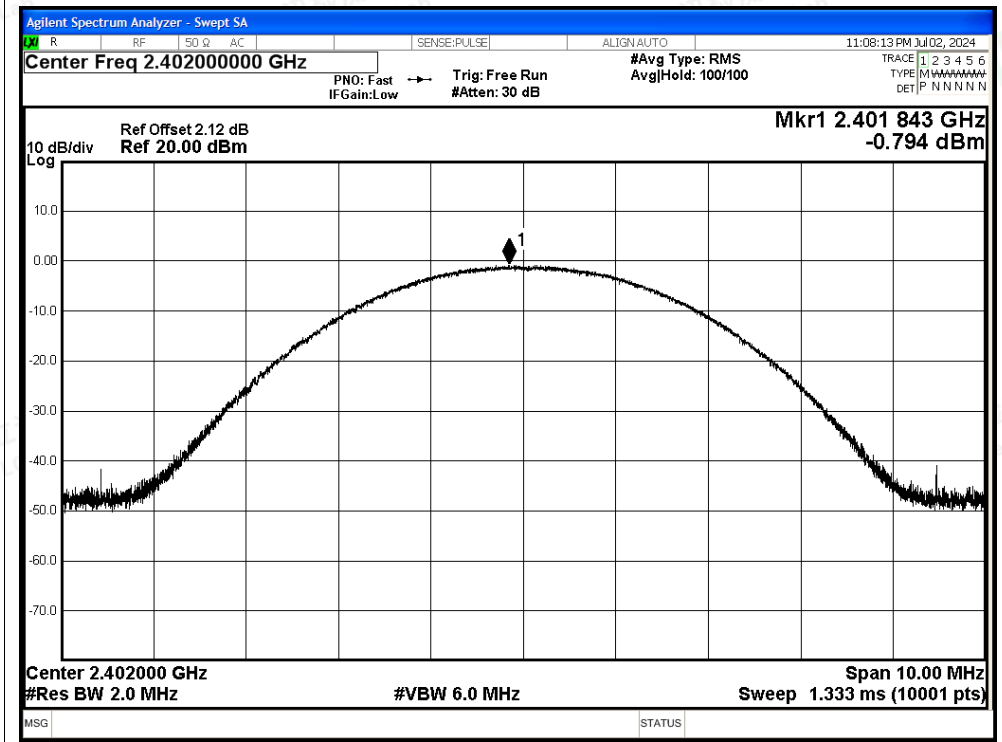




Power HVHT 1-DH5 2480MHz Ant1

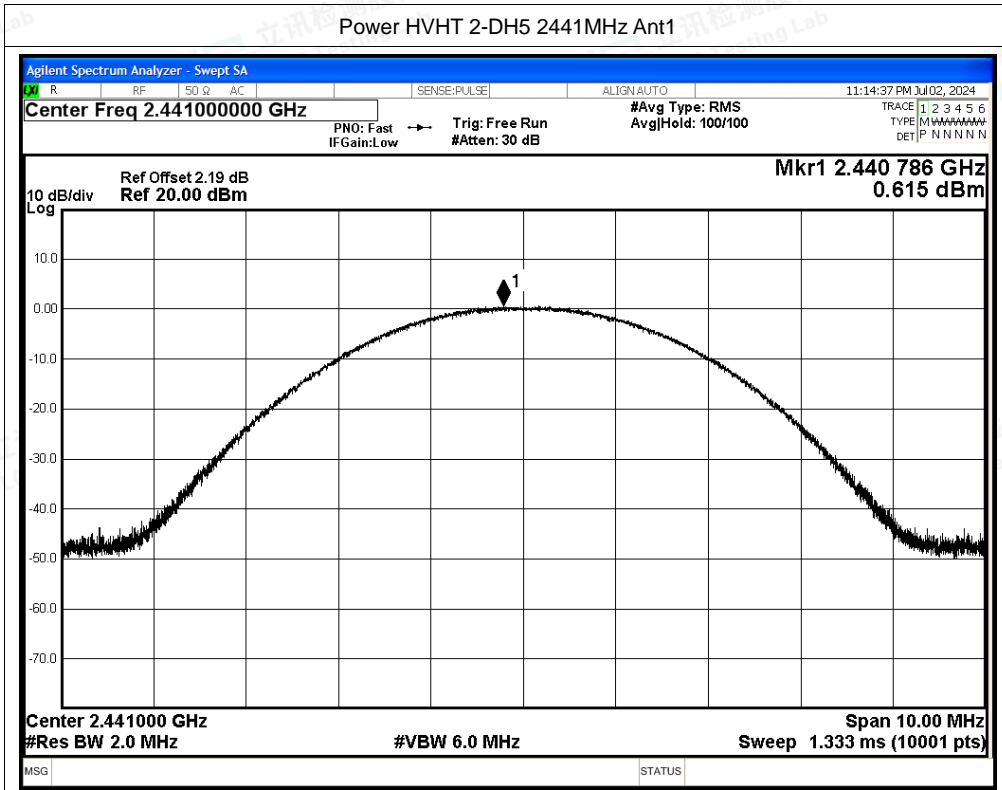


Power HVHT 2-DH5 2402MHz Ant1

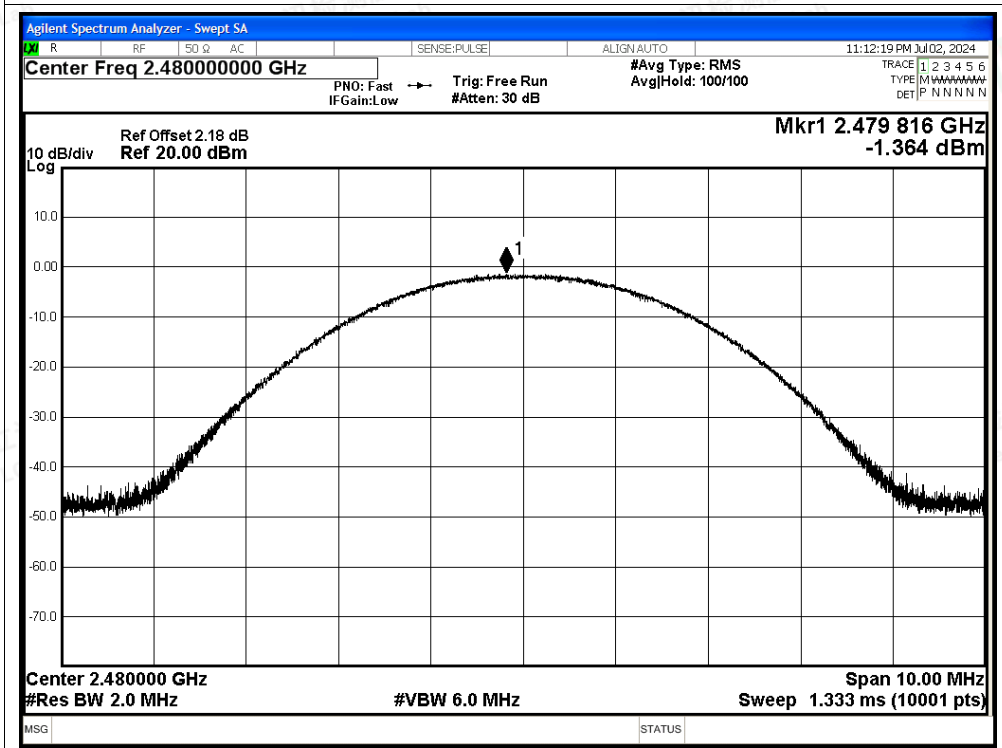




Power HVHT 2-DH5 2441MHz Ant1



Power HVHT 2-DH5 2480MHz Ant1





A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
HVHT	1-DH5	Ant1	2401.836	2403.022	1.186	0.644	Pass
HVHT	2-DH5	Ant1	2402.168	2403.02	0.852	0.856	Pass

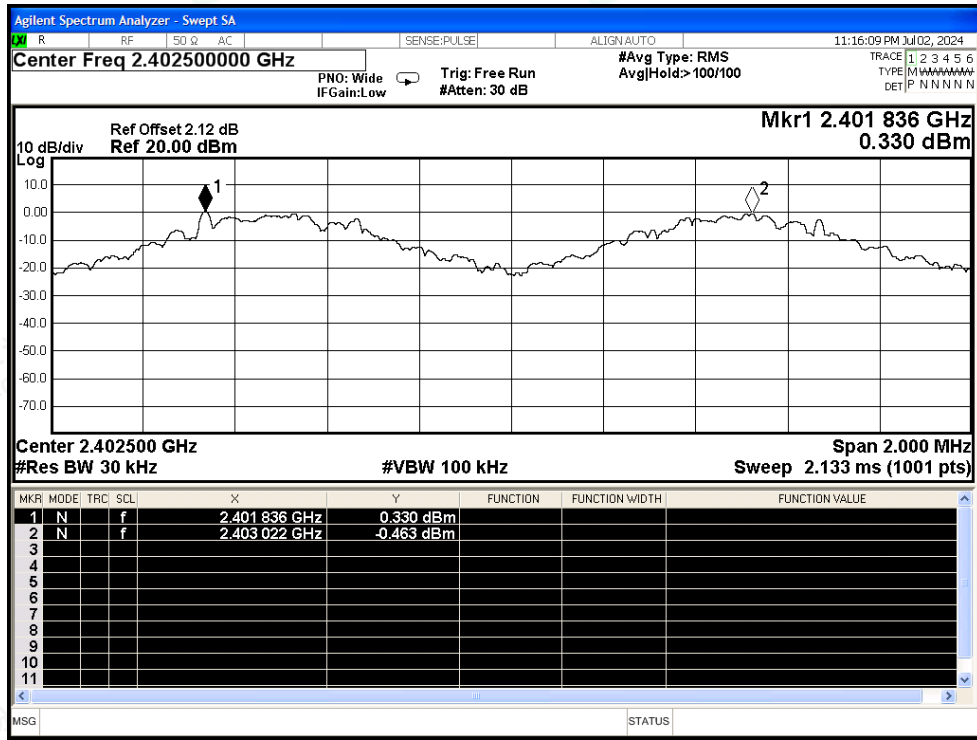


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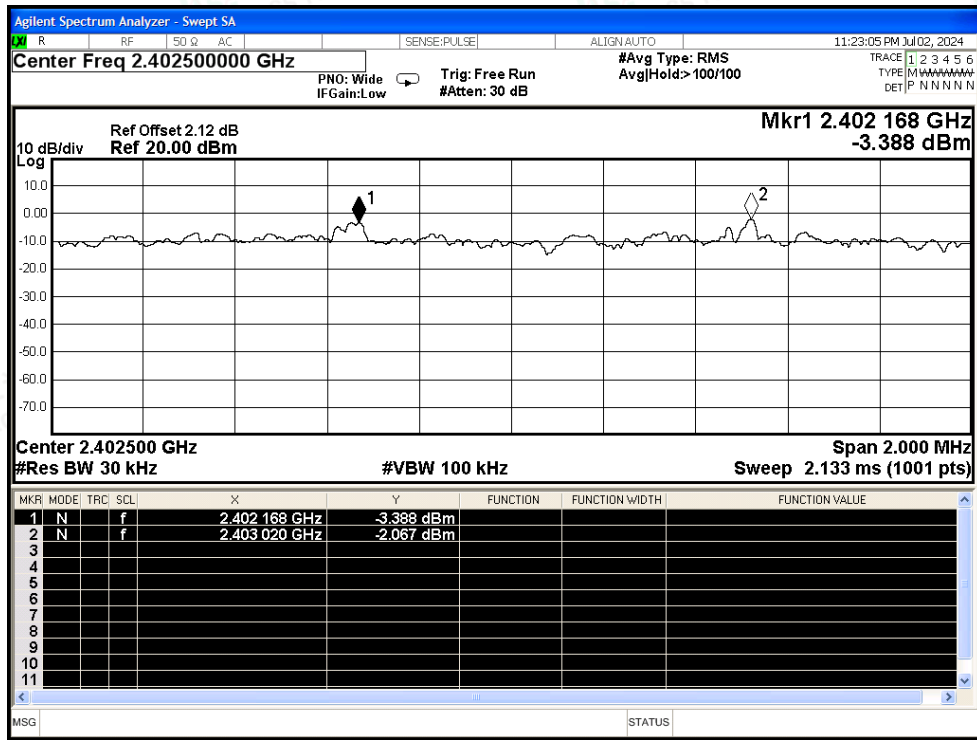


Test Graphs

CFS HVHT 1-DH5 2402MHz Ant1



CFS HVHT 2-DH5 2402MHz Ant1





A.4 Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
HVHT	1-DH5	2402	Ant1	2.909	311.263	107	31600	400	Pass
HVHT	2-DH5	2402	Ant1	2.898	266.616	92	31600	400	Pass

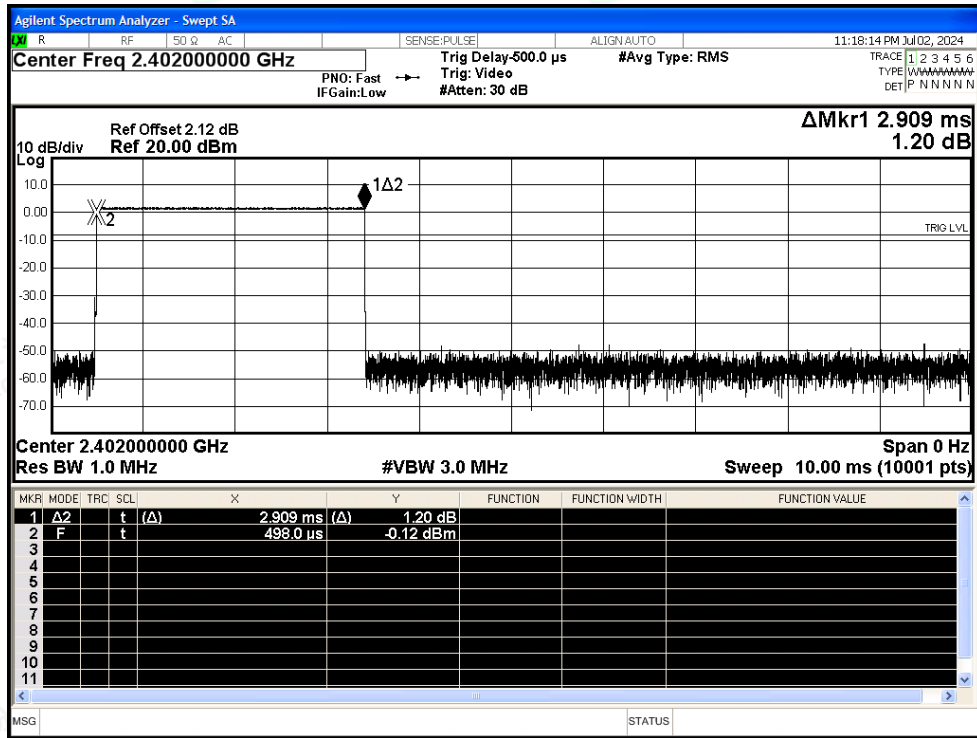


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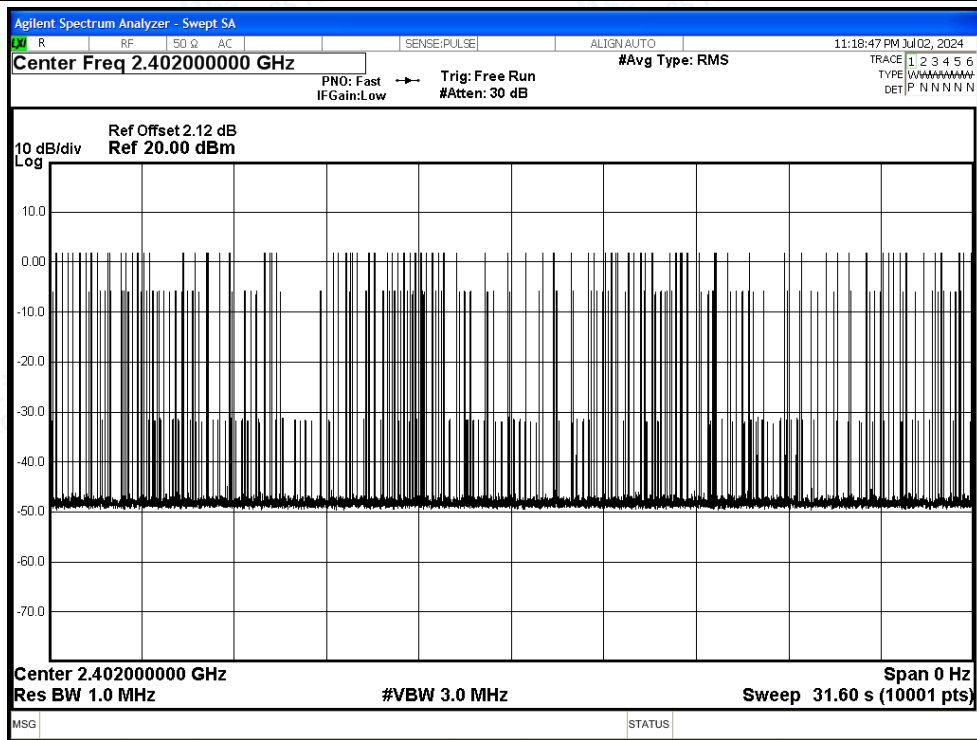


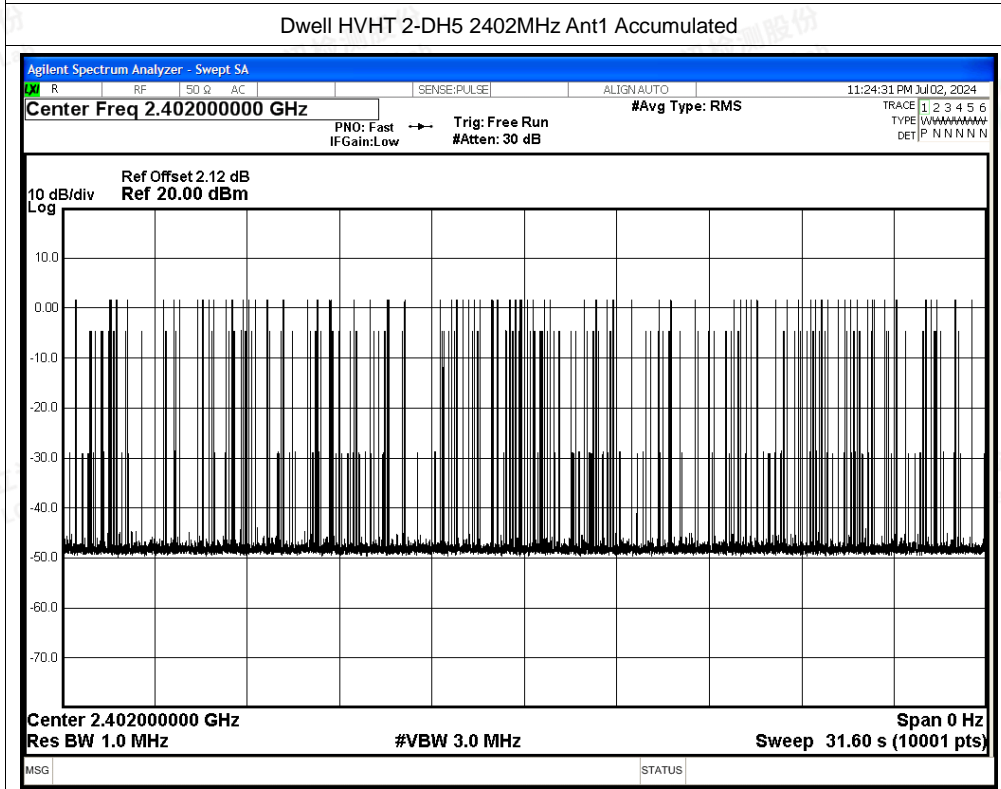
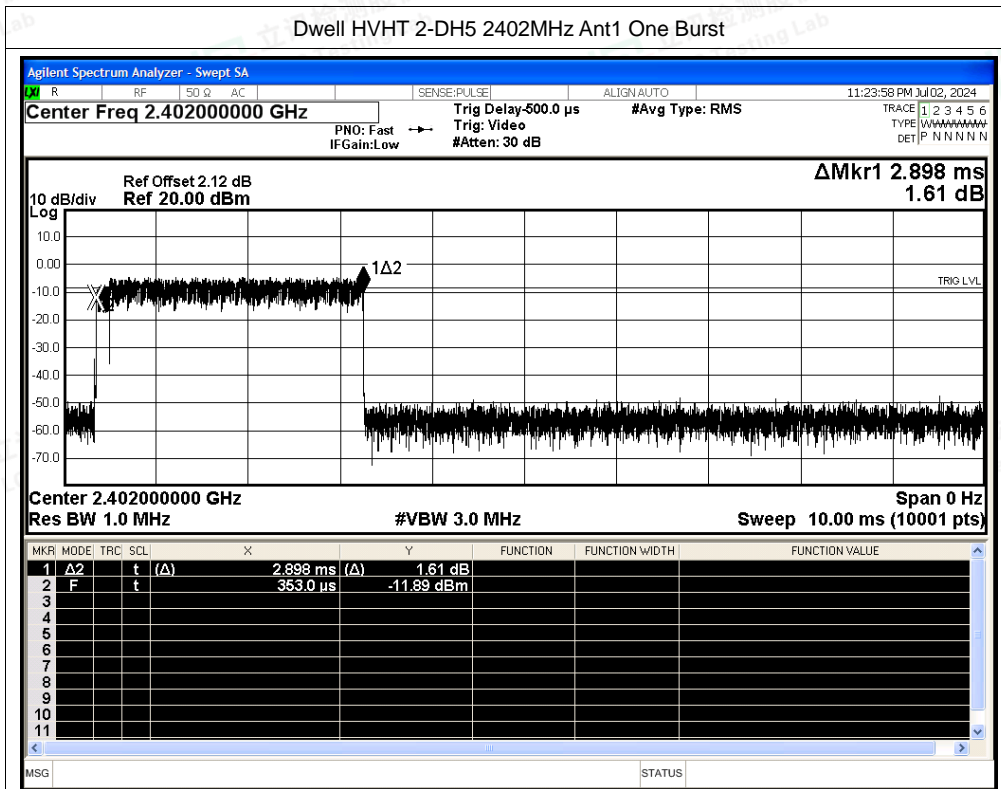
Test Graphs

Dwell HVHT 1-DH5 2402MHz Ant1 One Burst



Dwell HVHT 1-DH5 2402MHz Ant1 Accumulated







A.5 Number of Hopping Channel

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

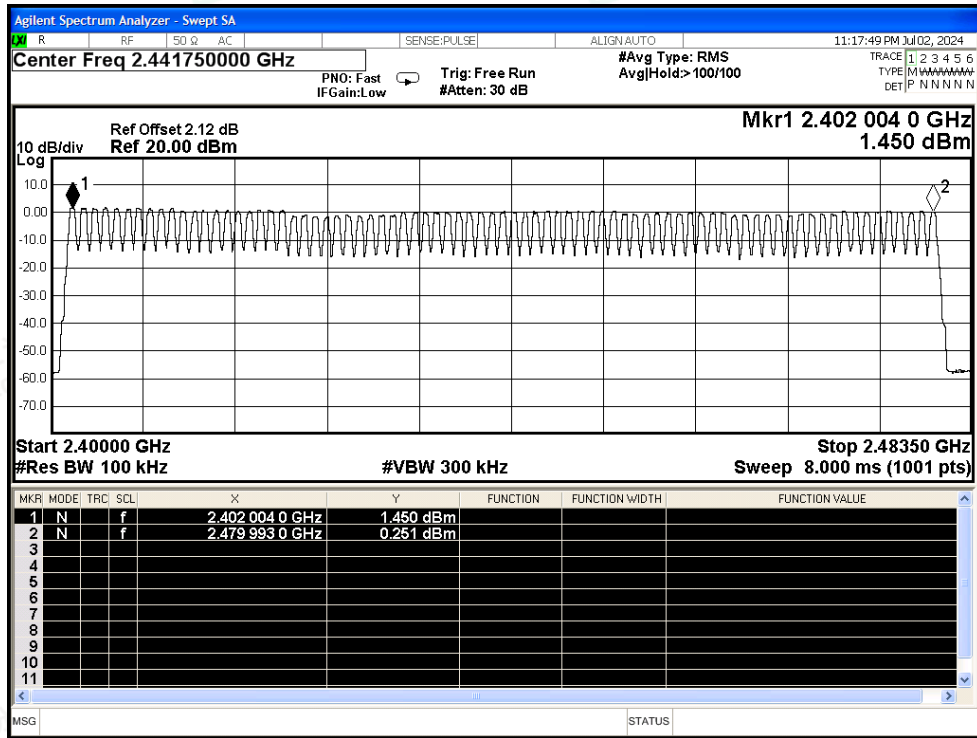


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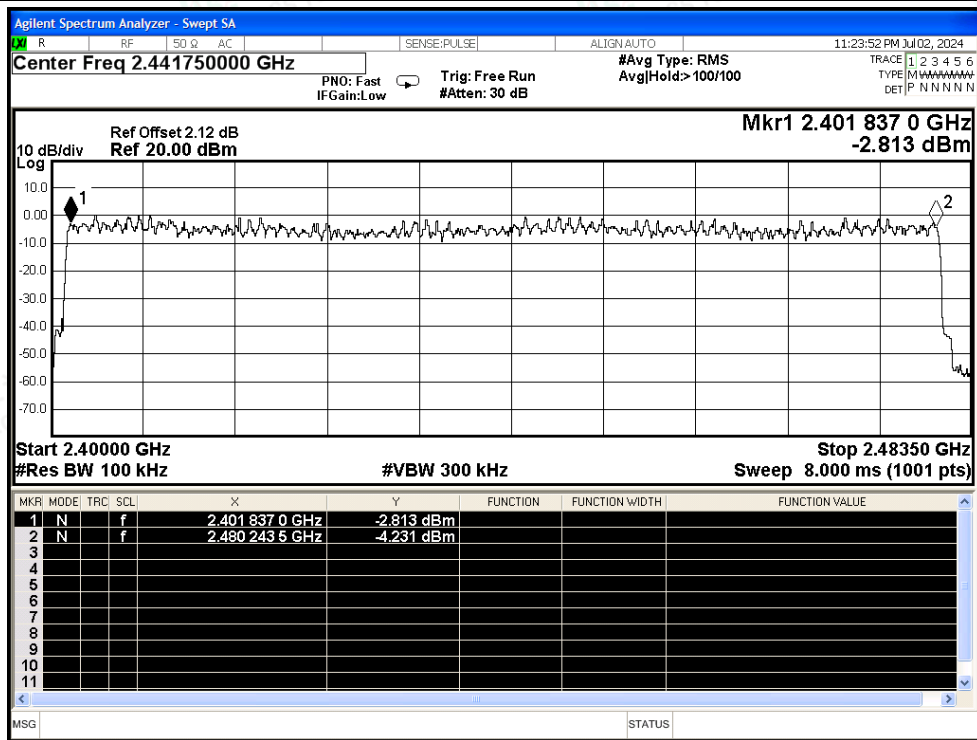


Test Graphs

Hopping No. HVHT 1-DH5 2402MHz Ant1



Hopping No. HVHT 2-DH5 2402MHz Ant1





A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
HVHT	1-DH5	2402	Ant1	No-Hopping	-55.89	-20	Pass
HVHT	1-DH5	2480	Ant1	No-Hopping	-55.04	-20	Pass
HVHT	2-DH5	2402	Ant1	No-Hopping	-53.36	-20	Pass
HVHT	2-DH5	2480	Ant1	No-Hopping	-52.6	-20	Pass

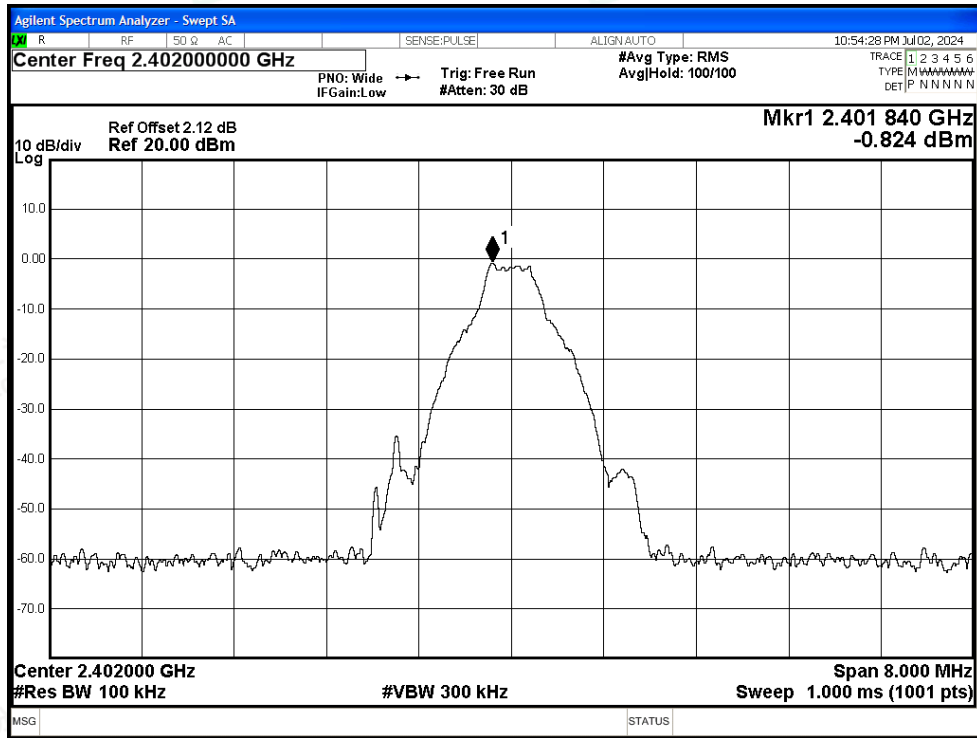


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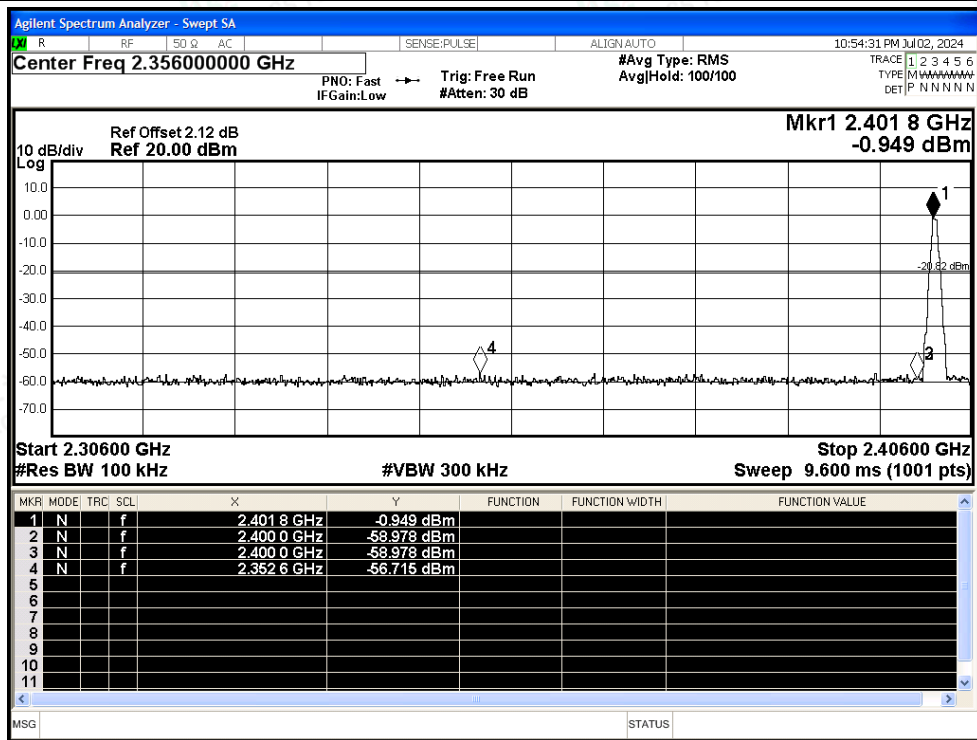


Test Graphs

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

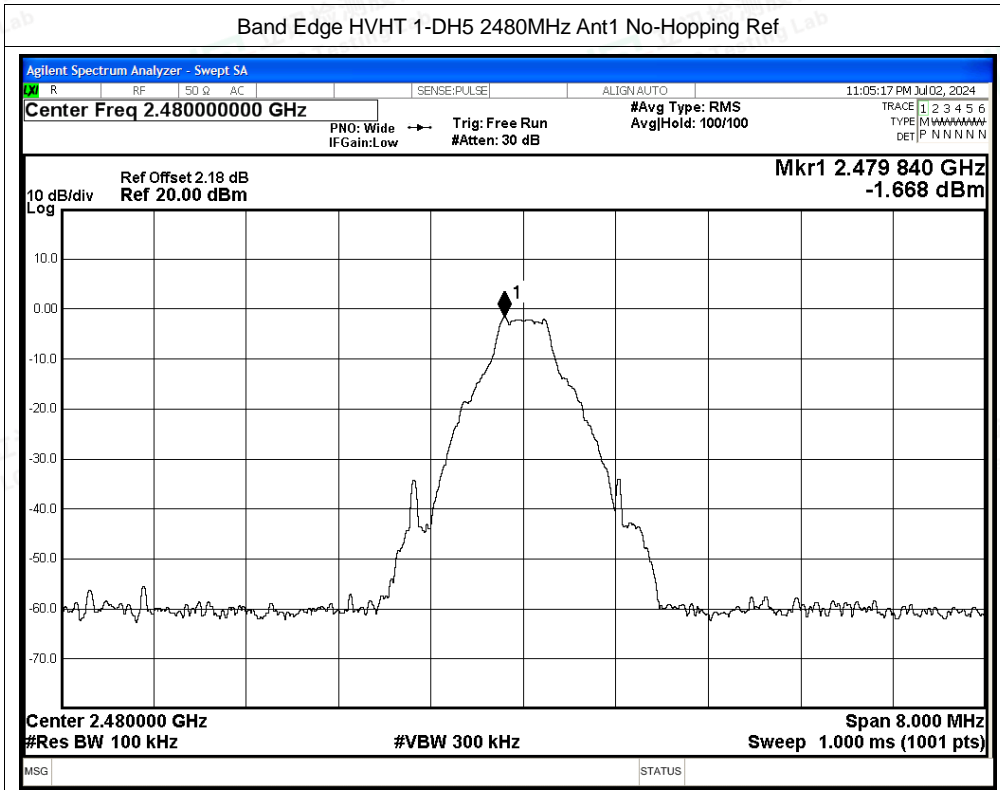


Band Edge HVHT 1-DH5 2402MHz Ant1 No-Hopping Emission

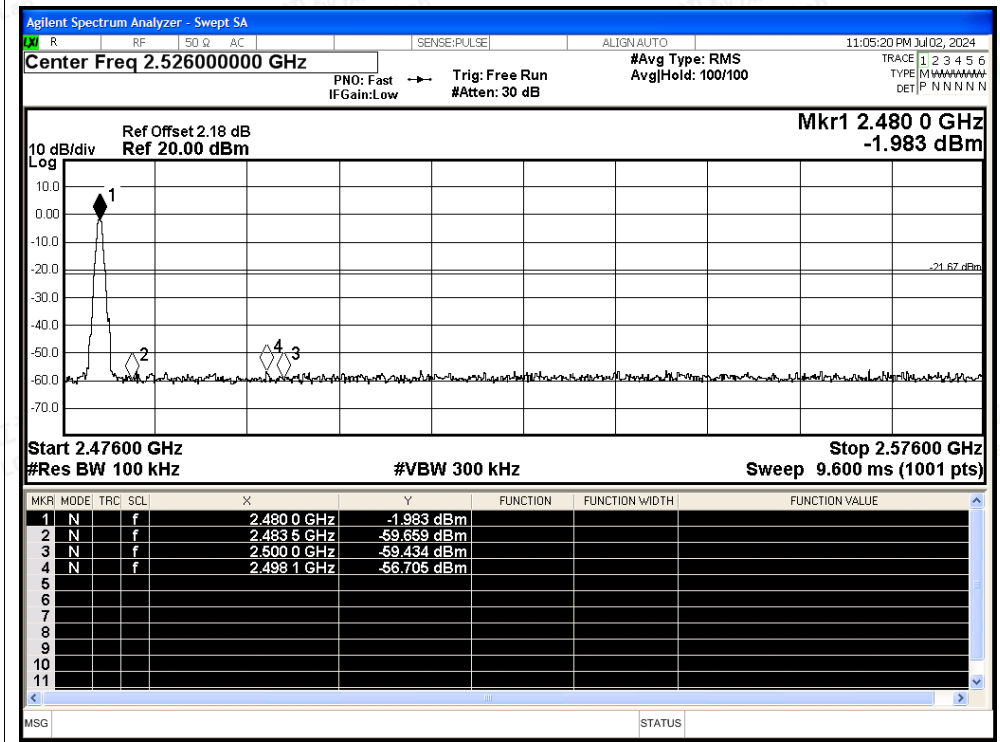




Band Edge HVHT 1-DH5 2480MHz Ant1 No-Hopping Ref

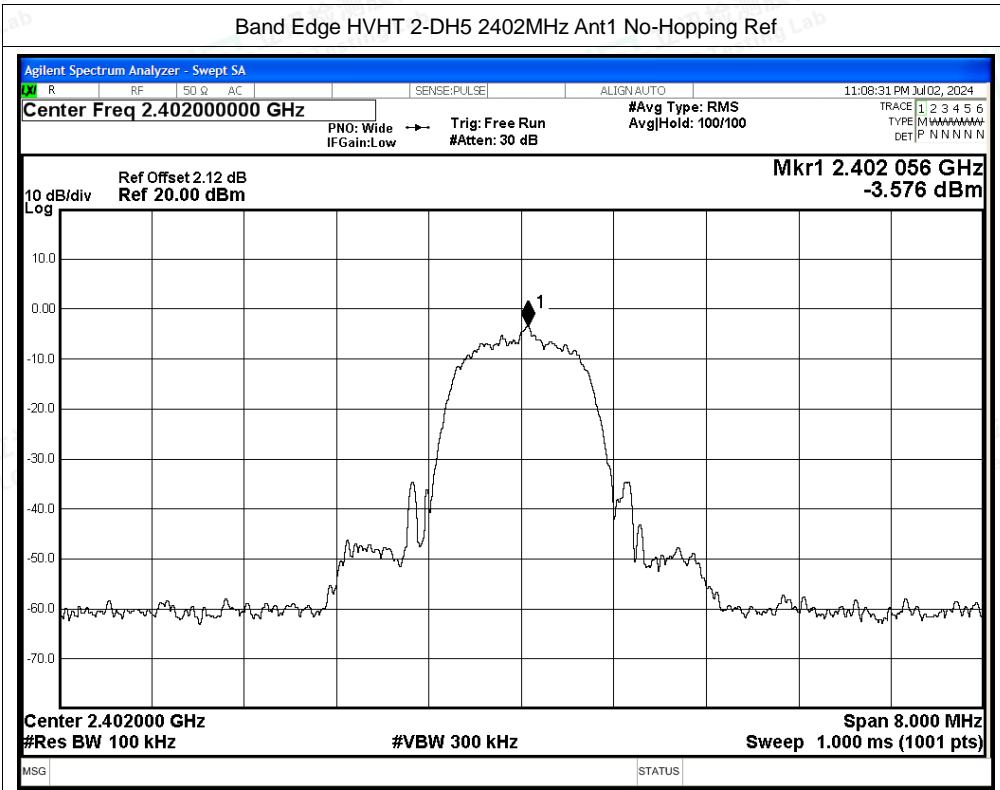


Band Edge HVHT 1-DH5 2480MHz Ant1 No-Hopping Emission

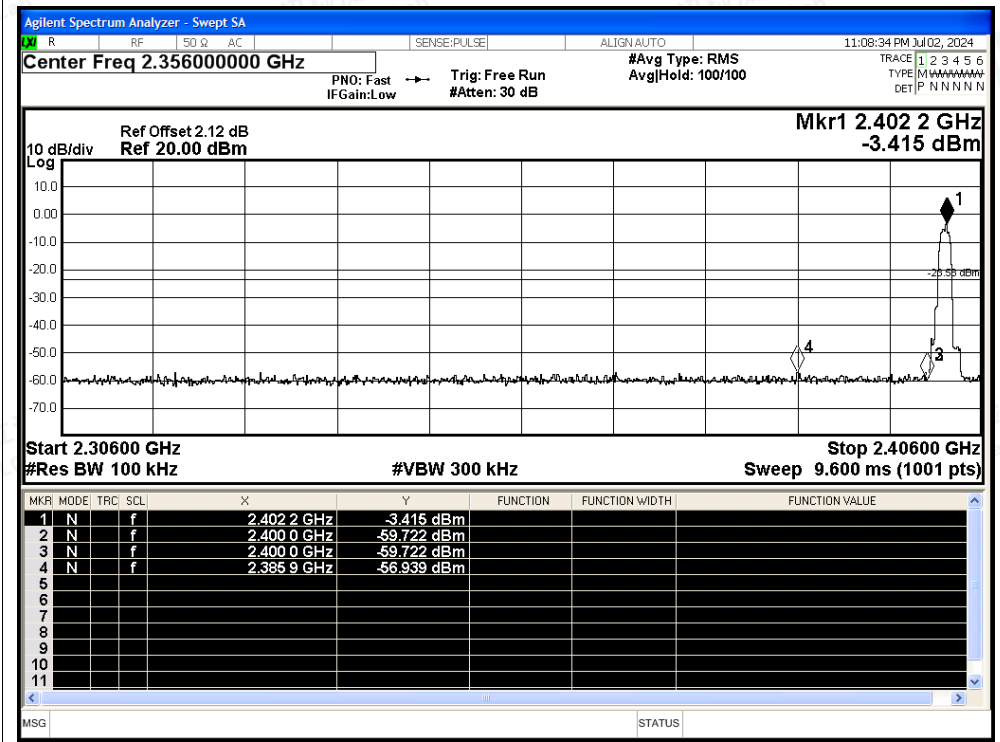




Band Edge HVHT 2-DH5 2402MHz Ant1 No-Hopping Ref

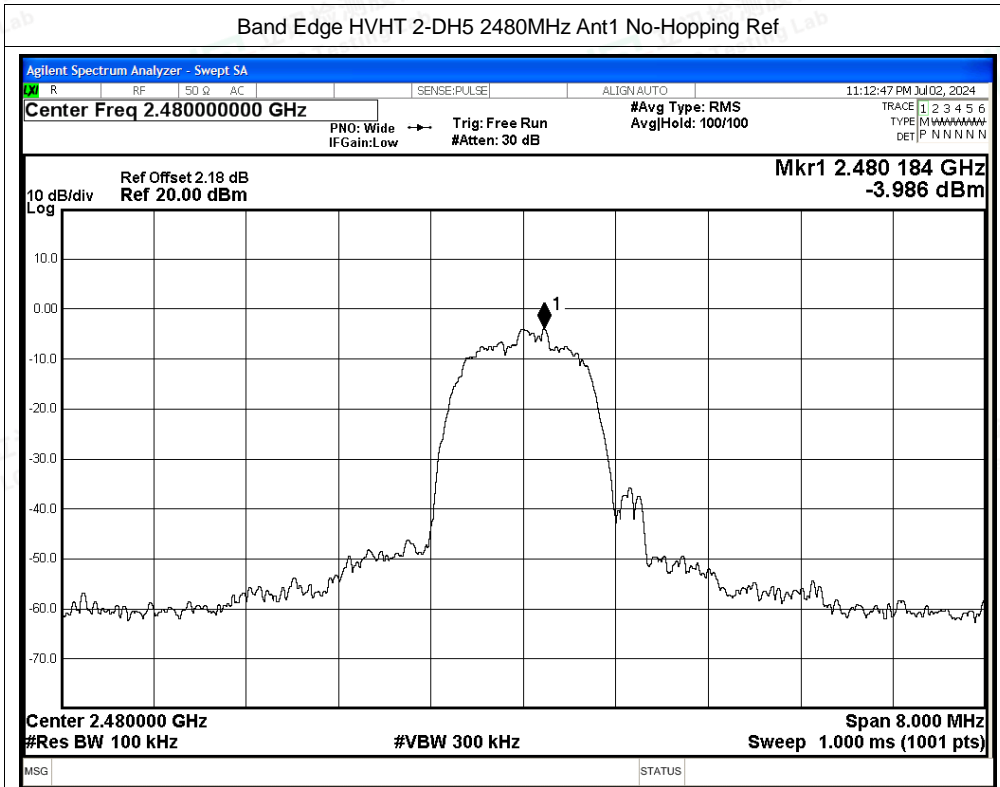


Band Edge HVHT 2-DH5 2402MHz Ant1 No-Hopping Emission

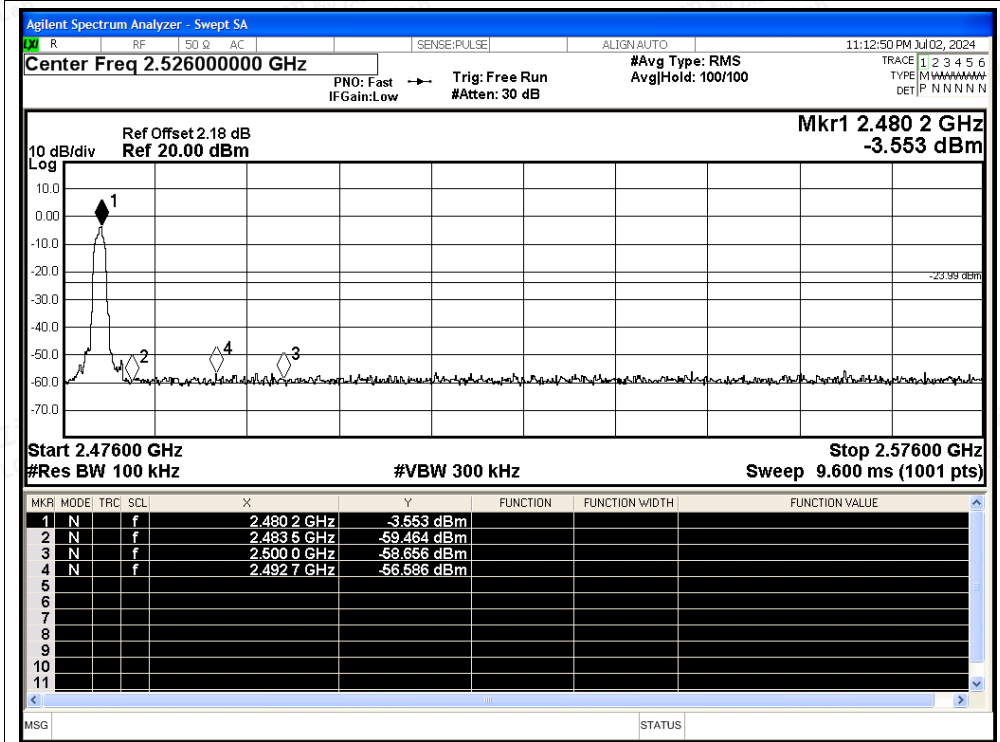




Band Edge HVHT 2-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
HVHT	1-DH5	2402	Ant1	Hopping	-57.51	-20	Pass
HVHT	1-DH5	2480	Ant1	Hopping	-55.91	-20	Pass
HVHT	2-DH5	2402	Ant1	Hopping	-56.14	-20	Pass
HVHT	2-DH5	2480	Ant1	Hopping	-54.2	-20	Pass

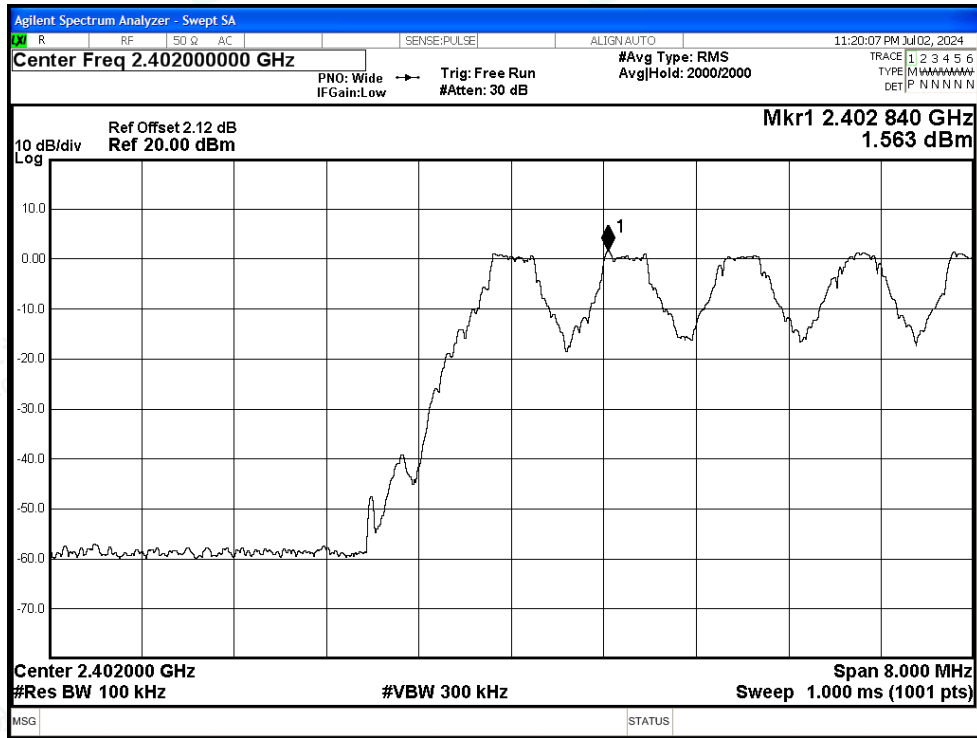


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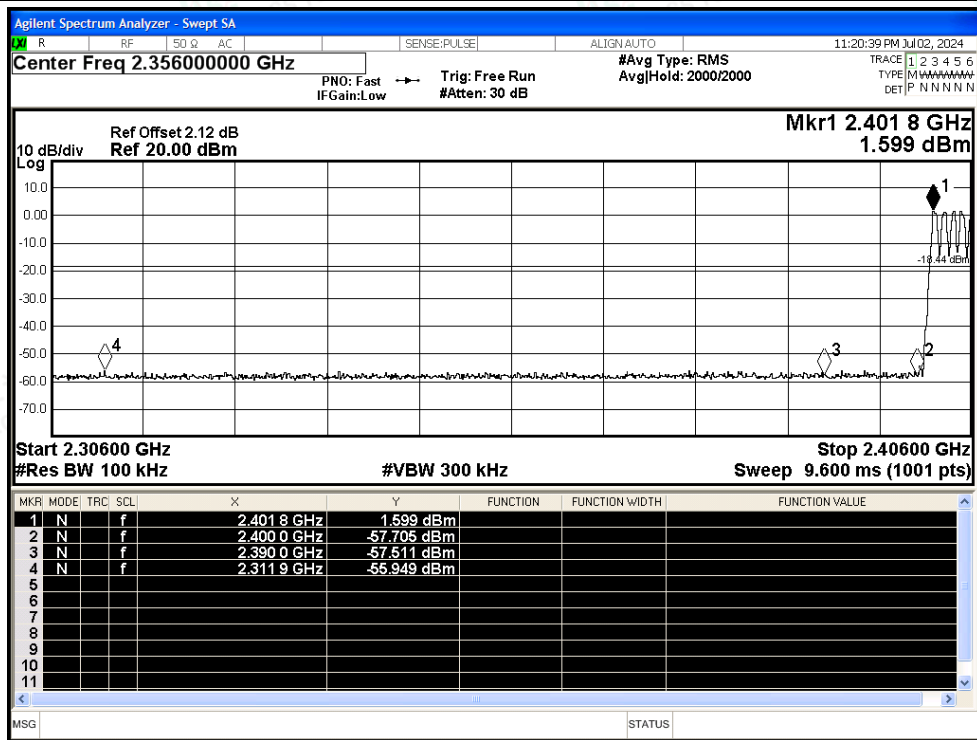


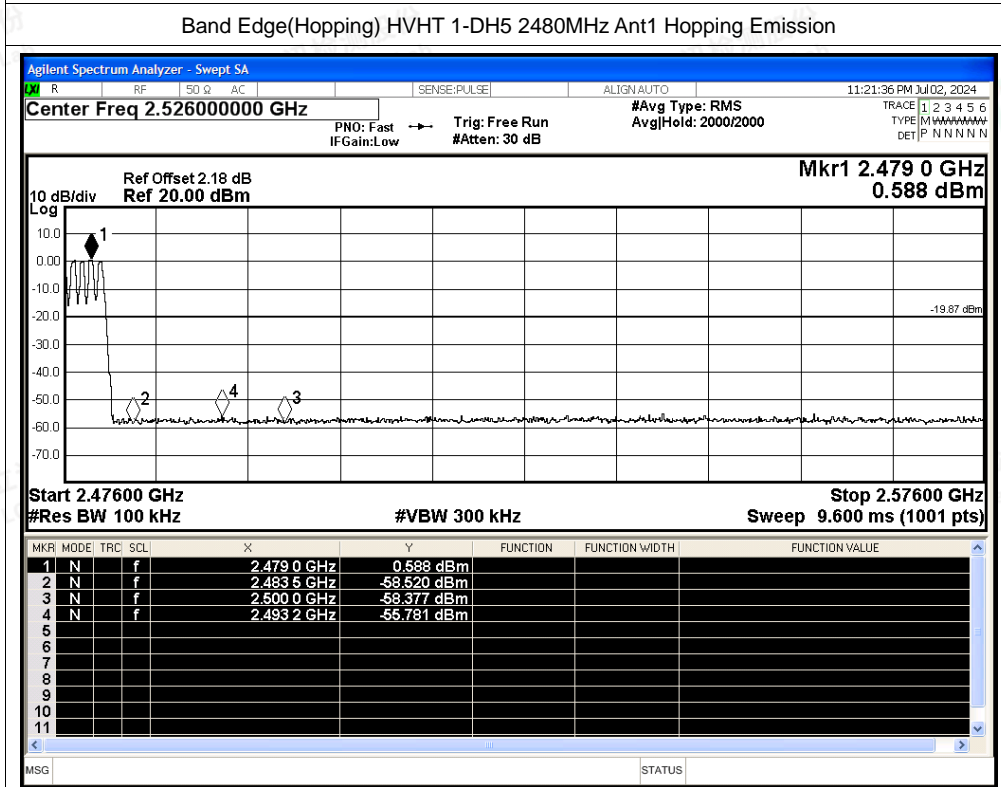
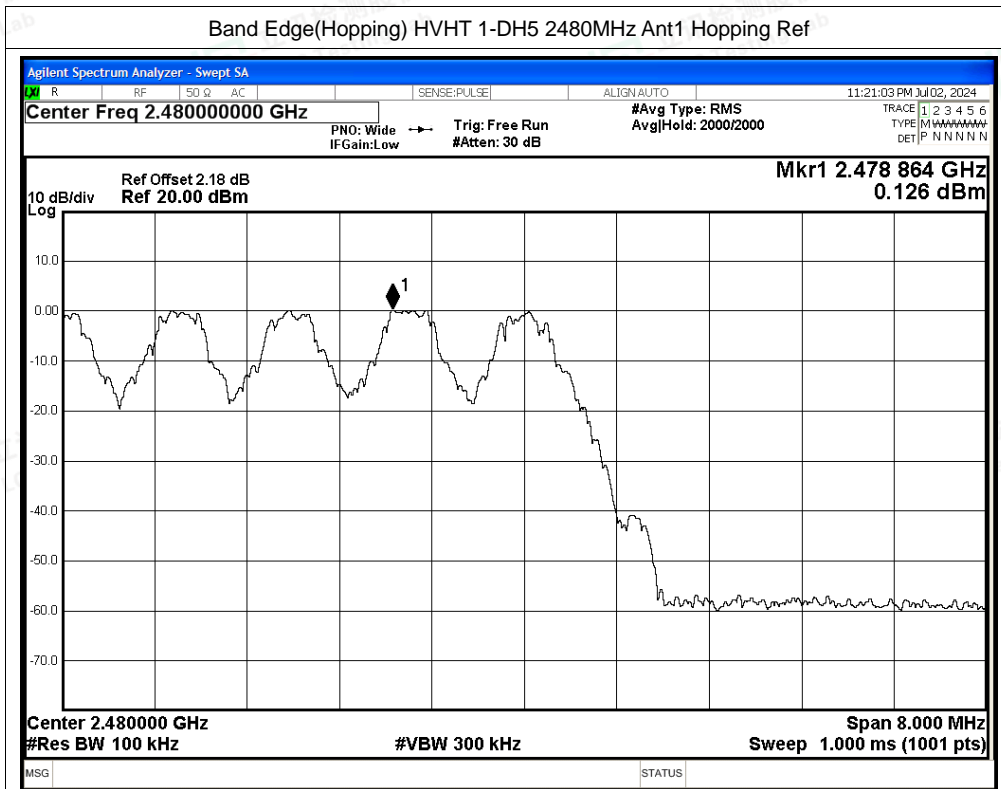
Test Graphs

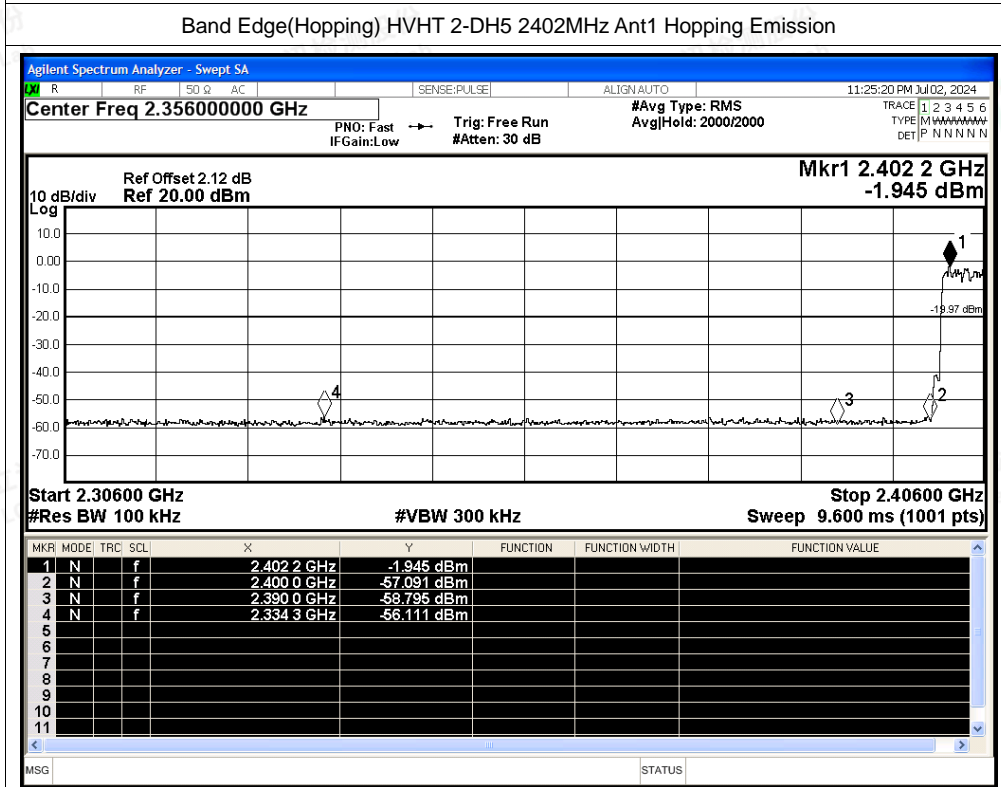
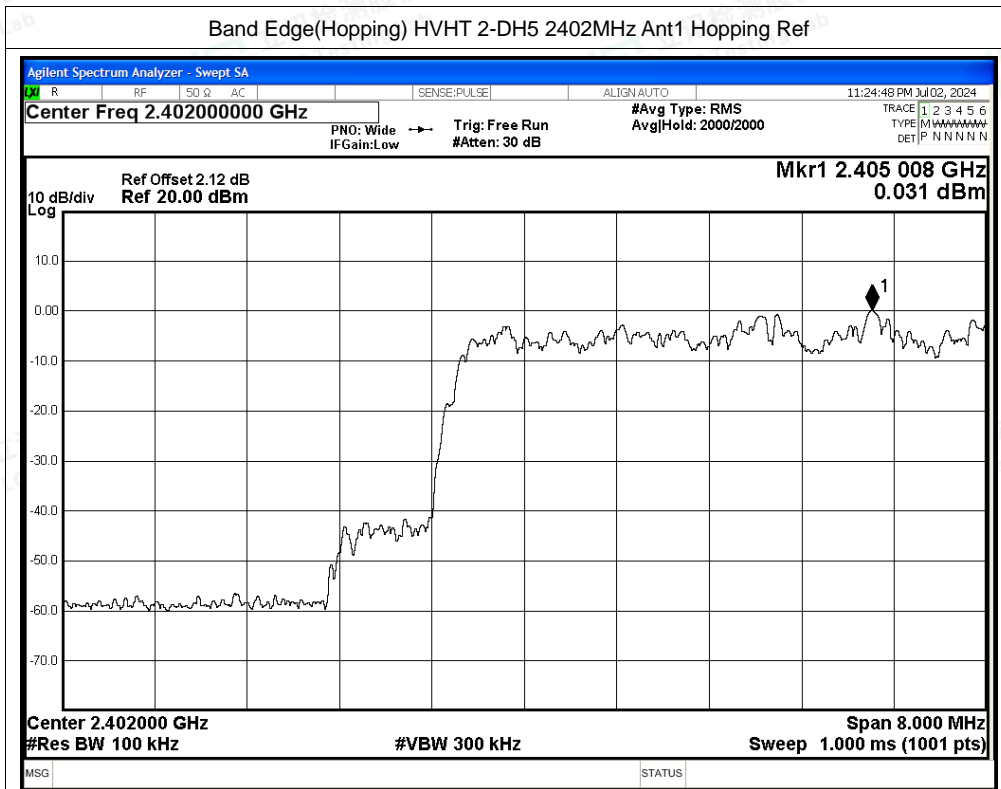
Band Edge(Hopping) HVHT 1-DH5 2402MHz Ant1 Hopping Ref

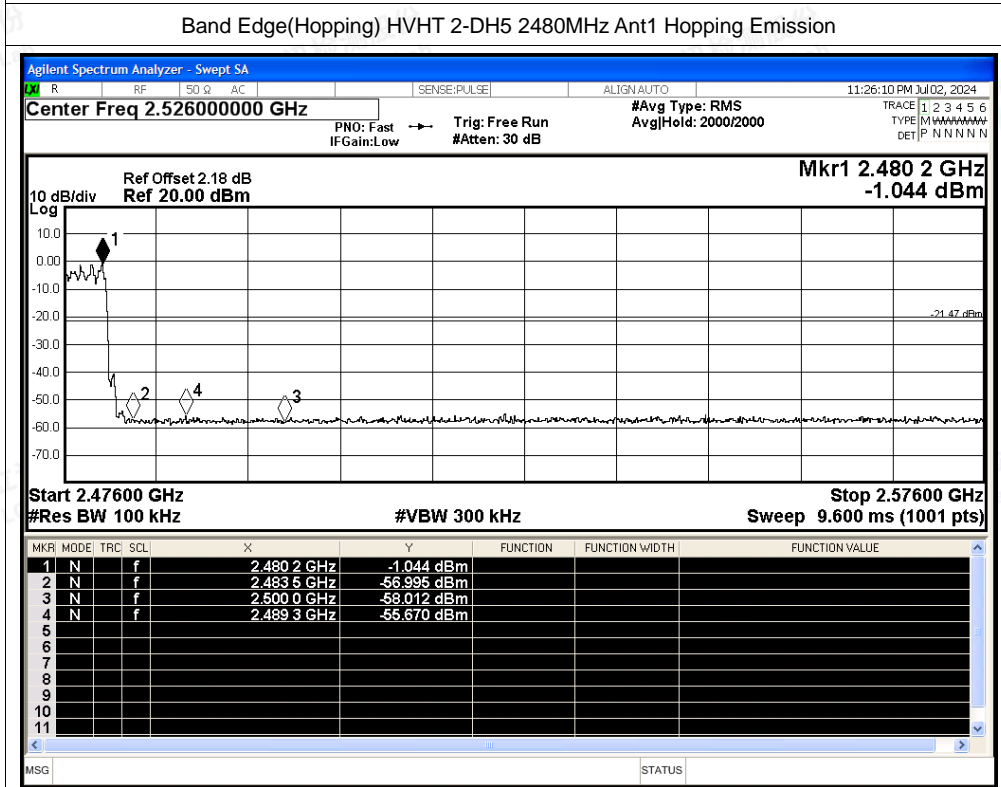
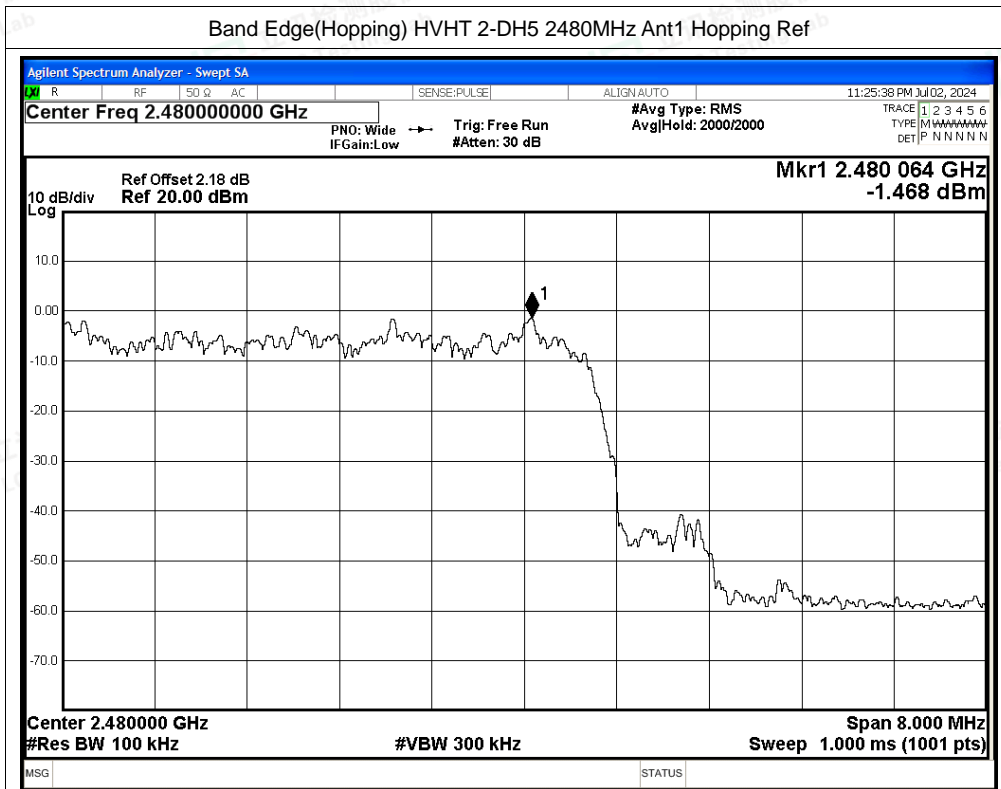


Band Edge(Hopping) HVHT 1-DH5 2402MHz Ant1 Hopping Emission











A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
HVHT	1-DH5	2402	Ant1	-53.8	-20	Pass
HVHT	1-DH5	2441	Ant1	-53.51	-20	Pass
HVHT	1-DH5	2480	Ant1	-38.94	-20	Pass
HVHT	2-DH5	2402	Ant1	-51.46	-20	Pass
HVHT	2-DH5	2441	Ant1	-49.17	-20	Pass
HVHT	2-DH5	2480	Ant1	-51.03	-20	Pass

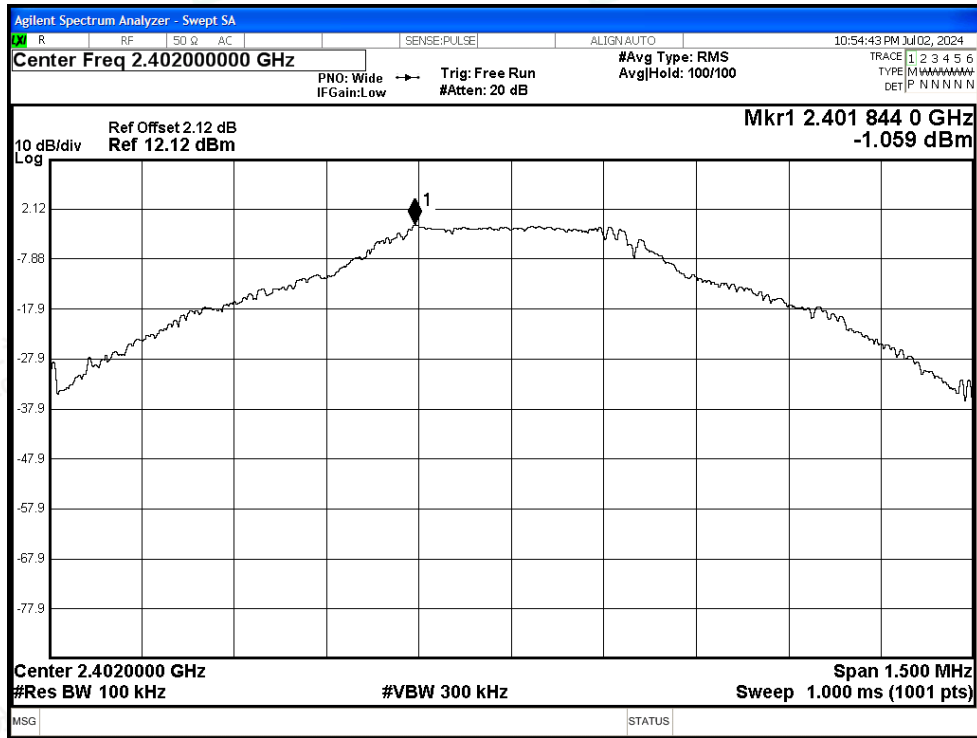


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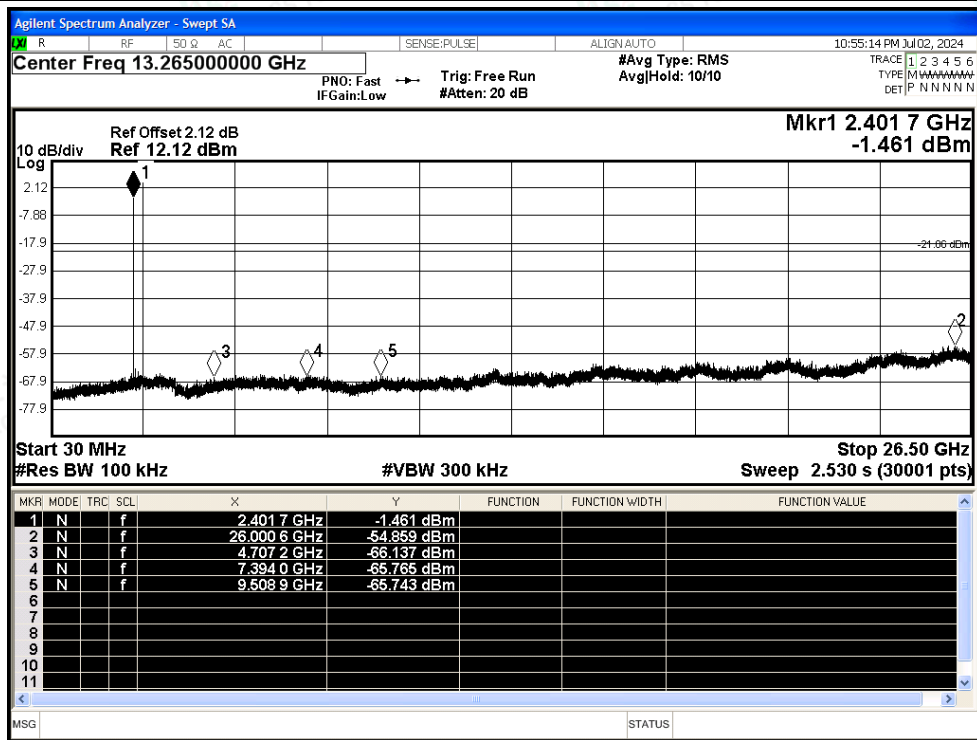


Test Graphs

Tx. Spurious HVHT 1-DH5 2402MHz Ant1 Ref

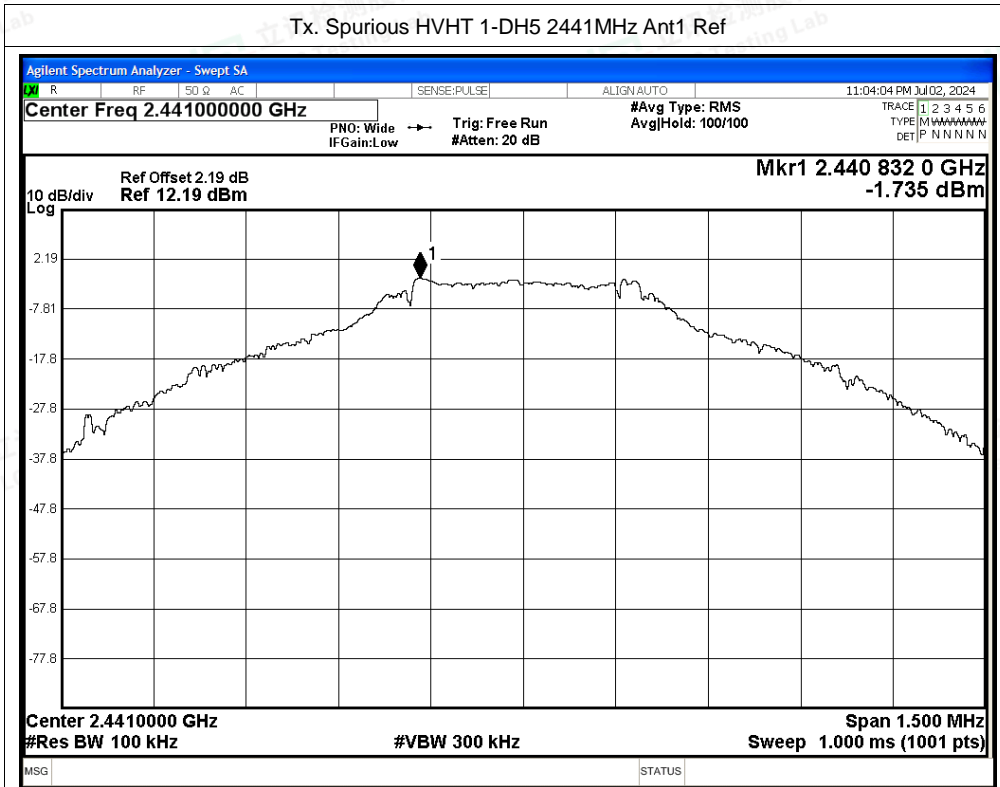


Tx. Spurious HVHT 1-DH5 2402MHz Ant1 Emission

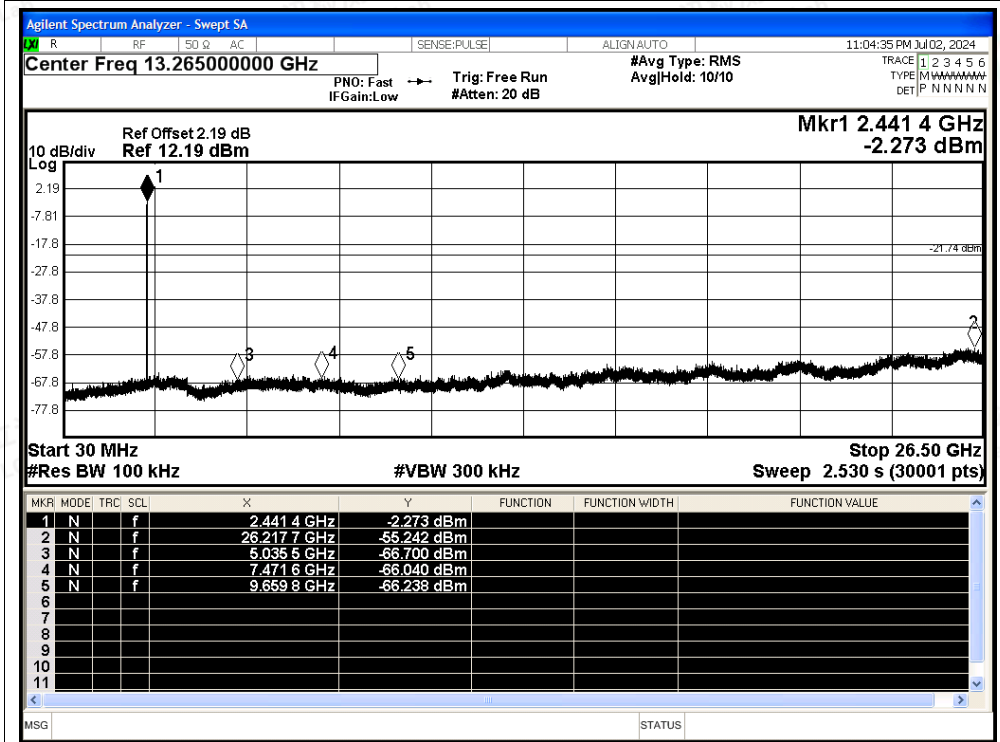




Tx. Spurious HVHT 1-DH5 2441MHz Ant1 Ref

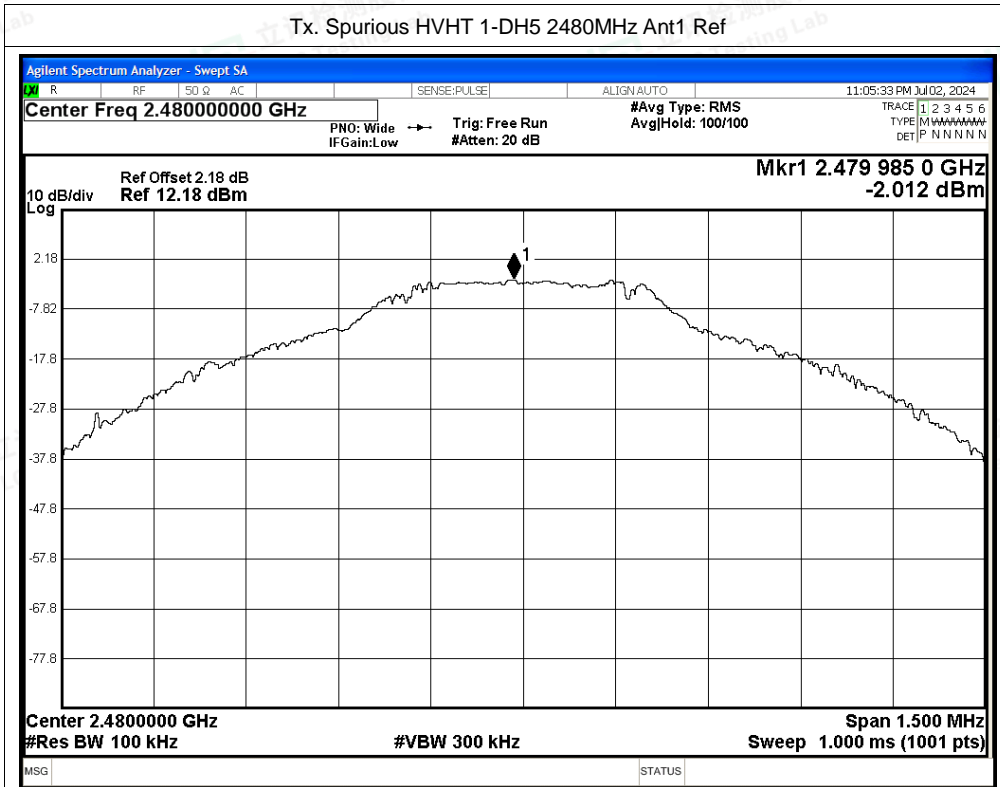


Tx. Spurious HVHT 1-DH5 2441MHz Ant1 Emission

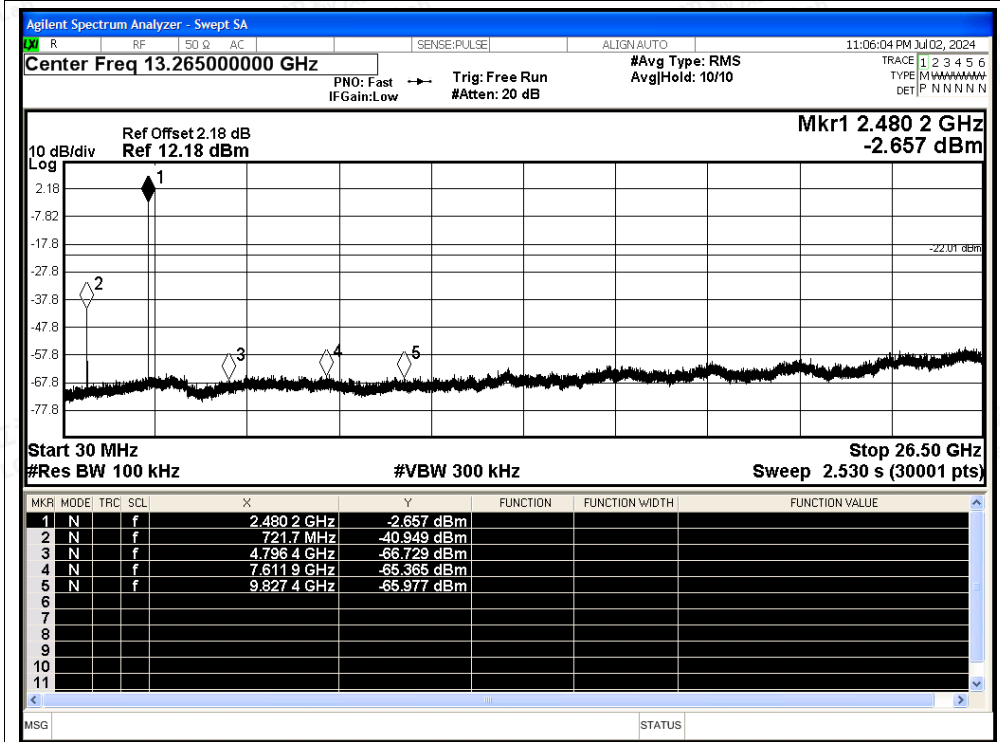




Tx. Spurious HVHT 1-DH5 2480MHz Ant1 Ref

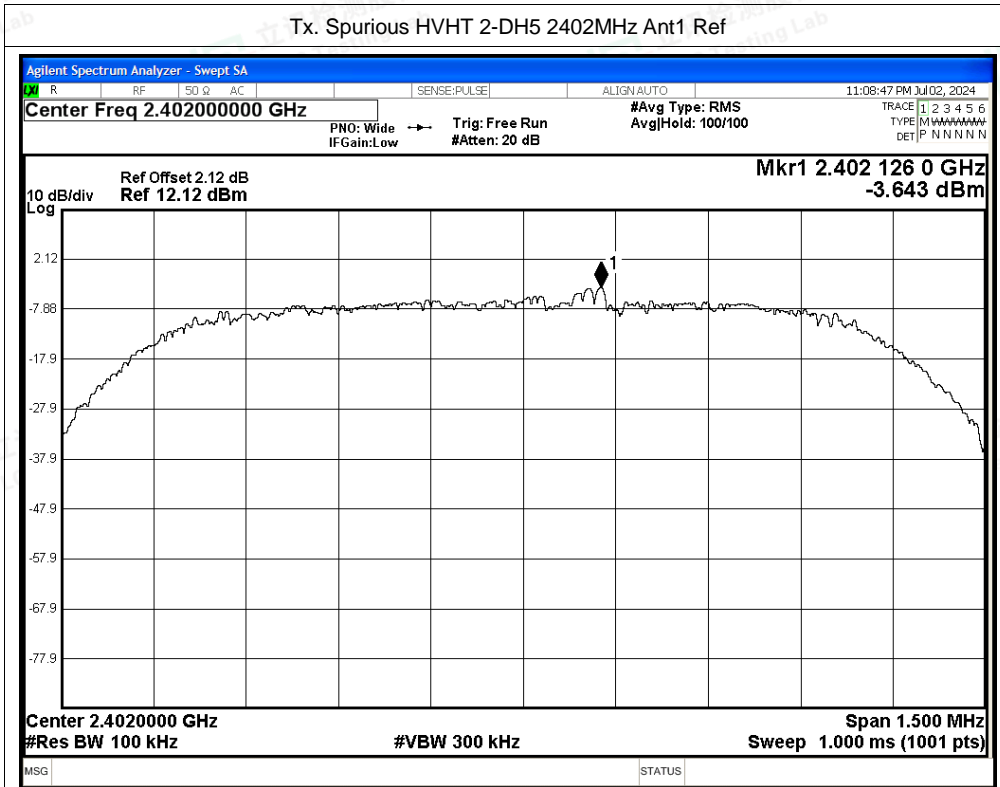


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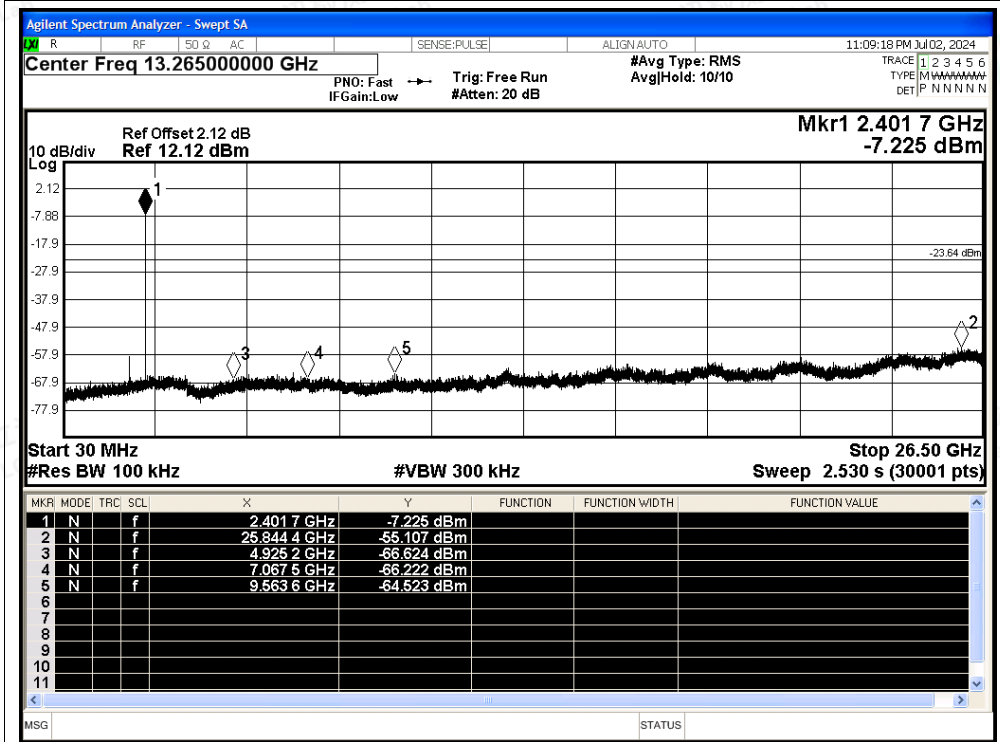




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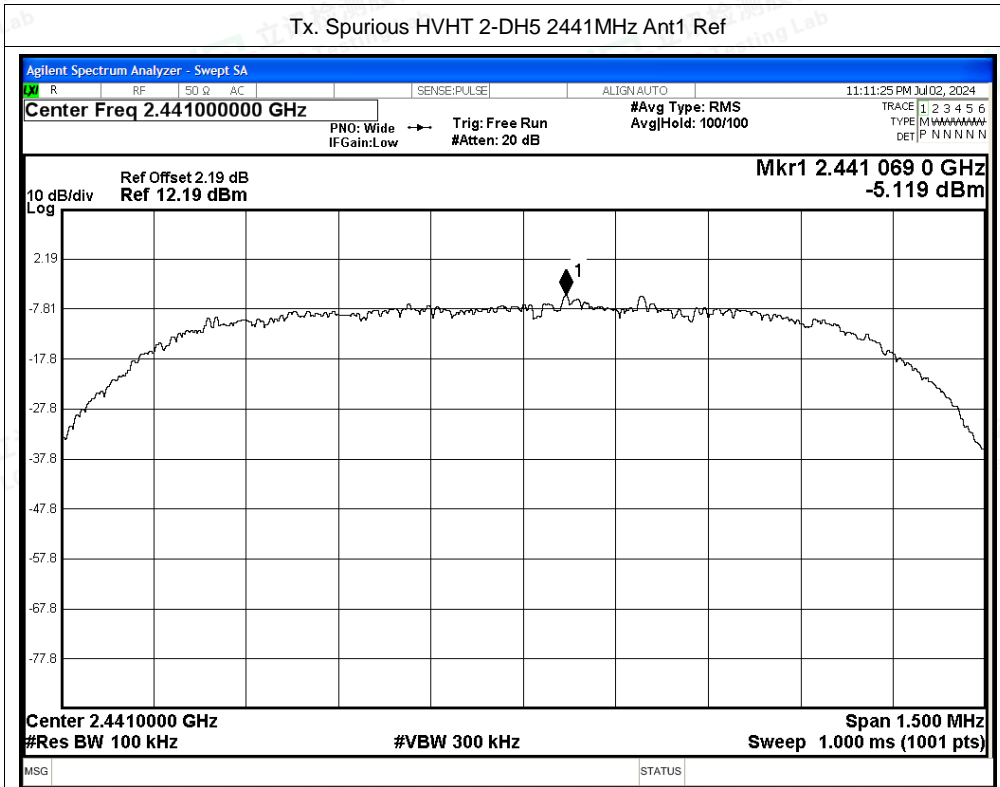


Tx. Spurious HVHT 2-DH5 2402MHz Ant1 Emission

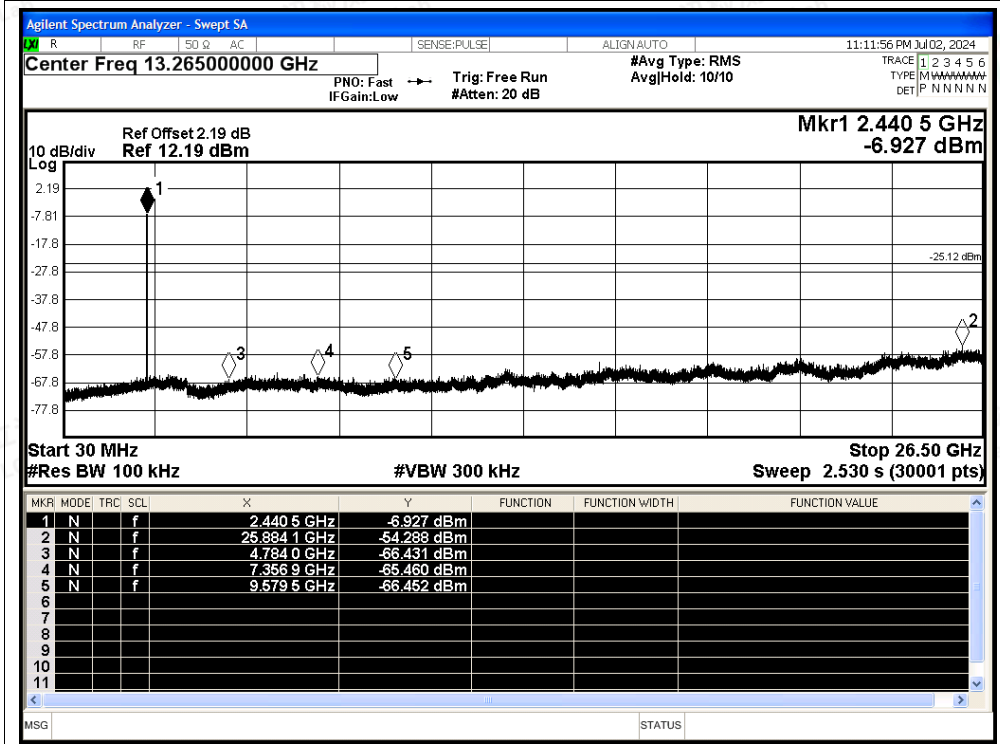




Tx. Spurious HVHT 2-DH5 2441MHz Ant1 Ref

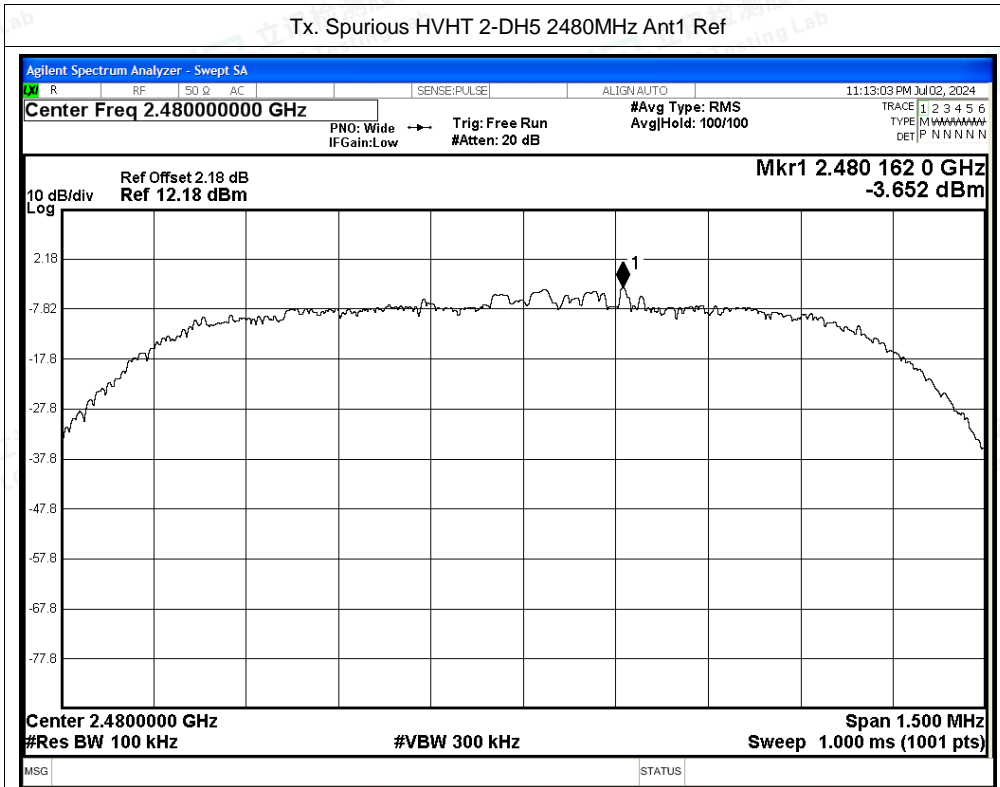


Tx. Spurious HVHT 2-DH5 2441MHz Ant1 Emission

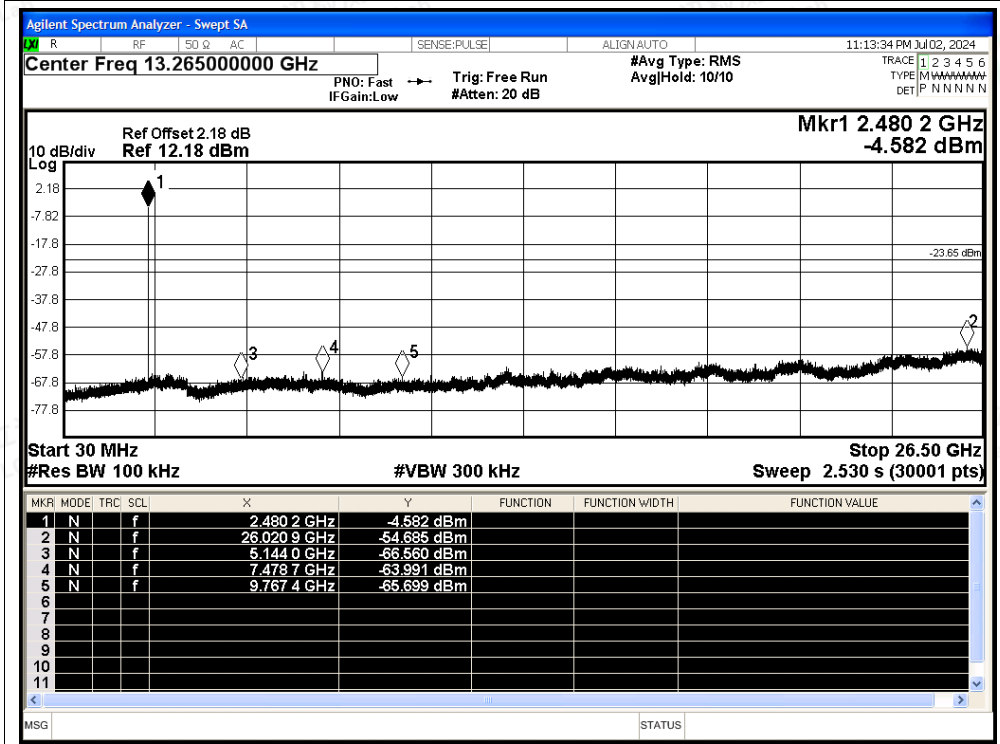




Tx. Spurious HVHT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious HVHT 2-DH5 2480MHz Ant1 Emission





A.8 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
HVHT	1-DH5	2402	Ant1	77.6	1.1	0.34
HVHT	1-DH5	2441	Ant1	77.6	1.1	0.34
HVHT	1-DH5	2480	Ant1	77.63	1.1	0.34
HVHT	2-DH5	2402	Ant1	76.41	1.17	0.36
HVHT	2-DH5	2441	Ant1	76.38	1.17	0.36
HVHT	2-DH5	2480	Ant1	76.41	1.17	0.36

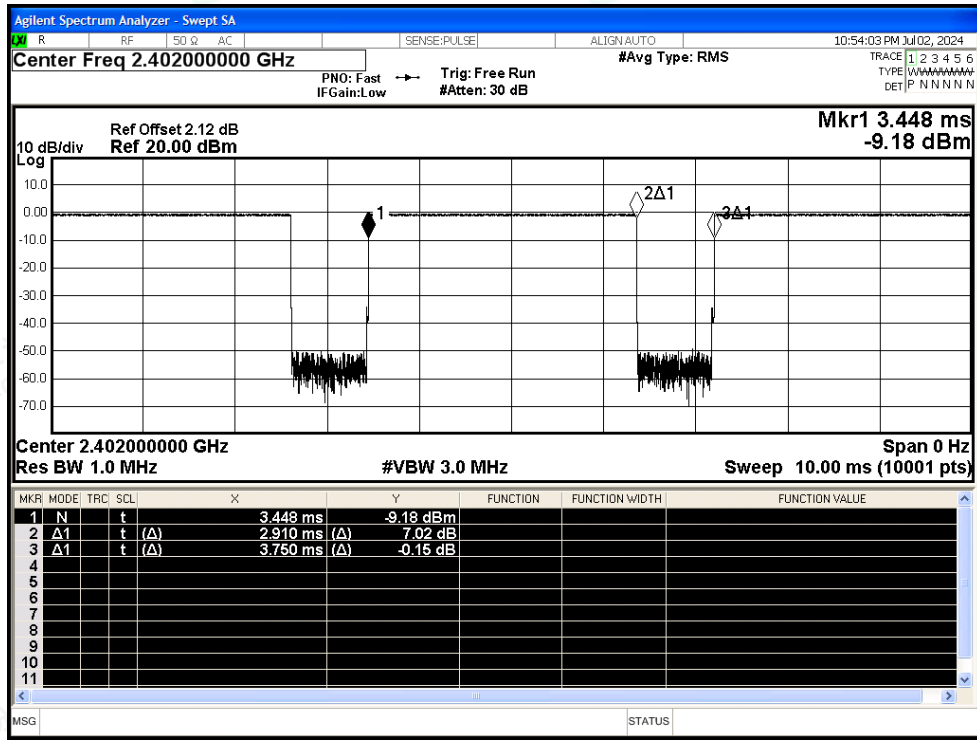


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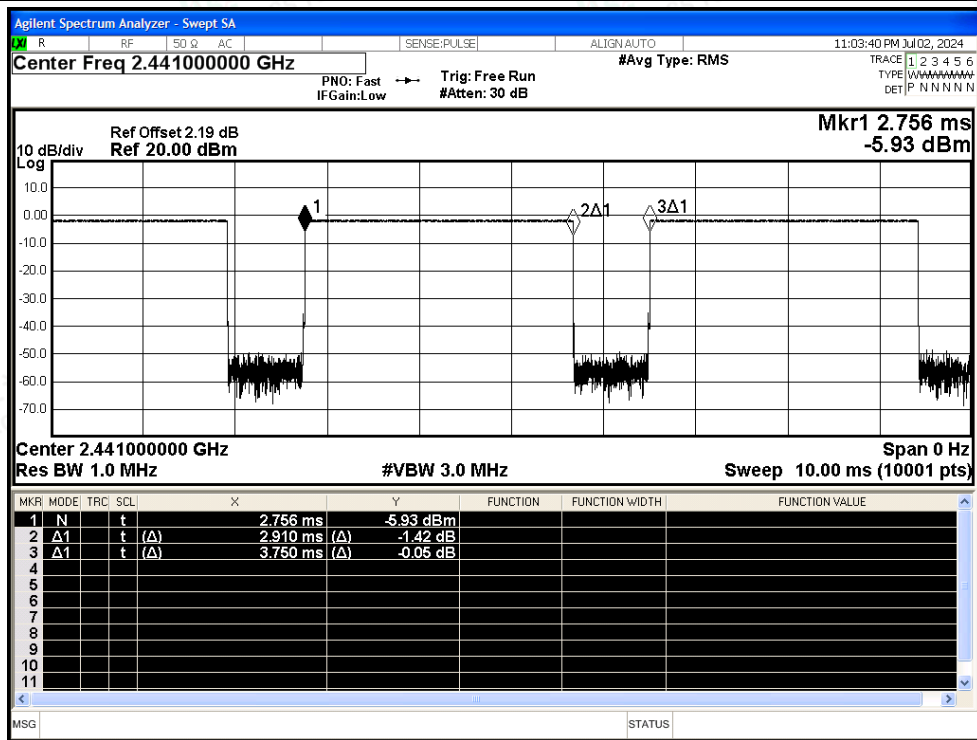


Test Graphs

Duty Cycle HVHT 1-DH5 2402MHz Ant1

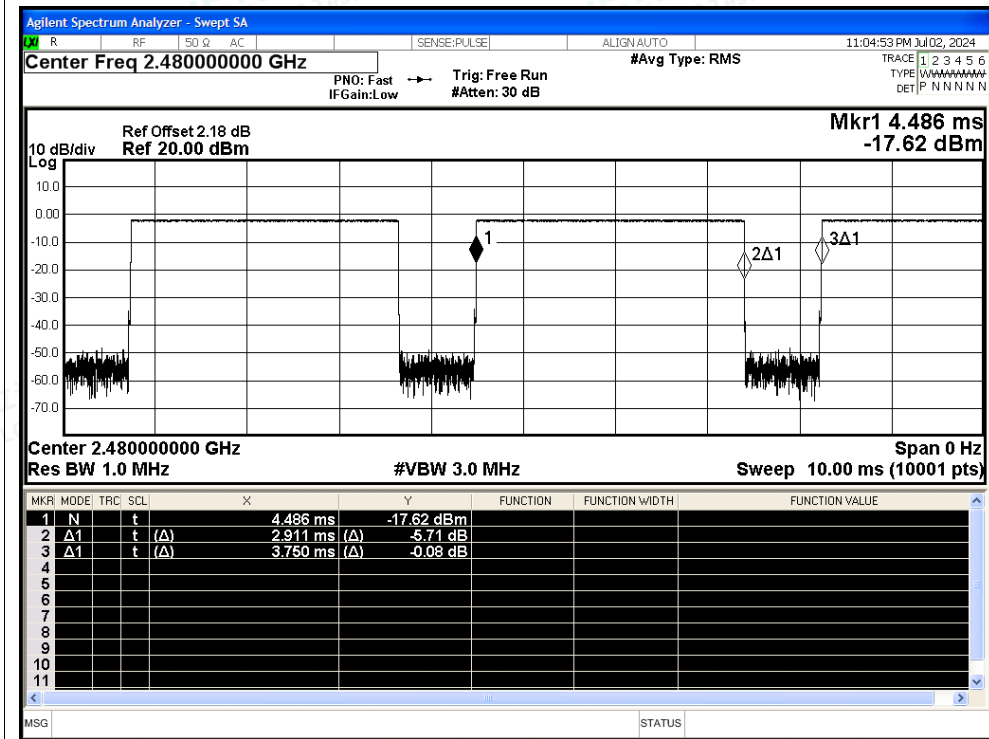


Duty Cycle HVHT 1-DH5 2441MHz Ant1

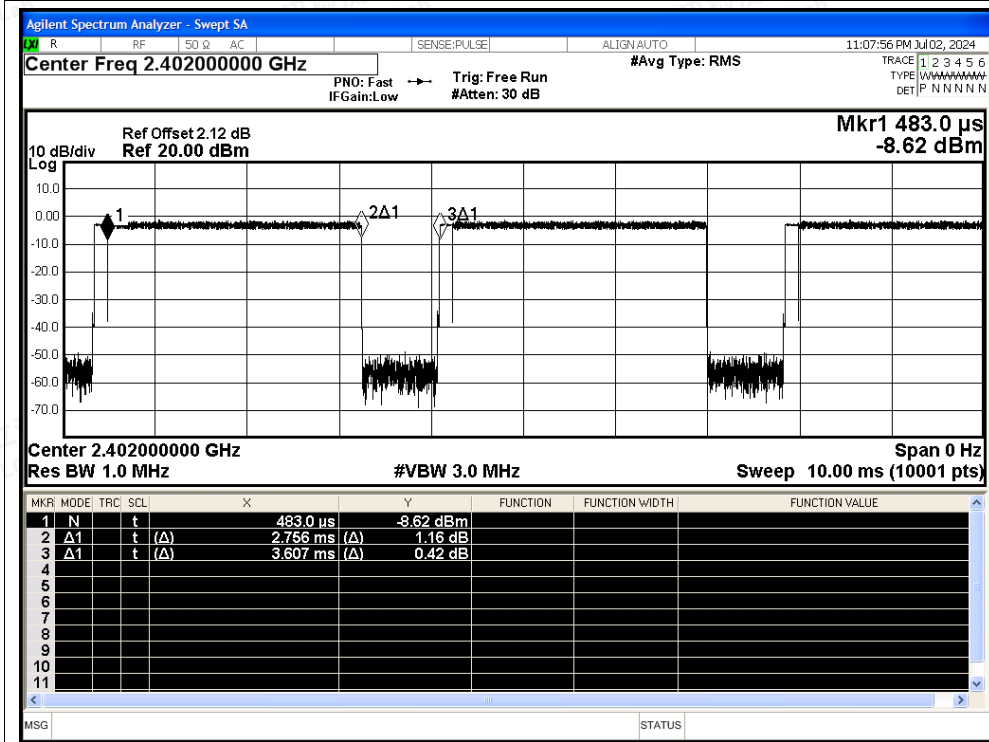




Duty Cycle HVHT 1-DH5 2480MHz Ant1

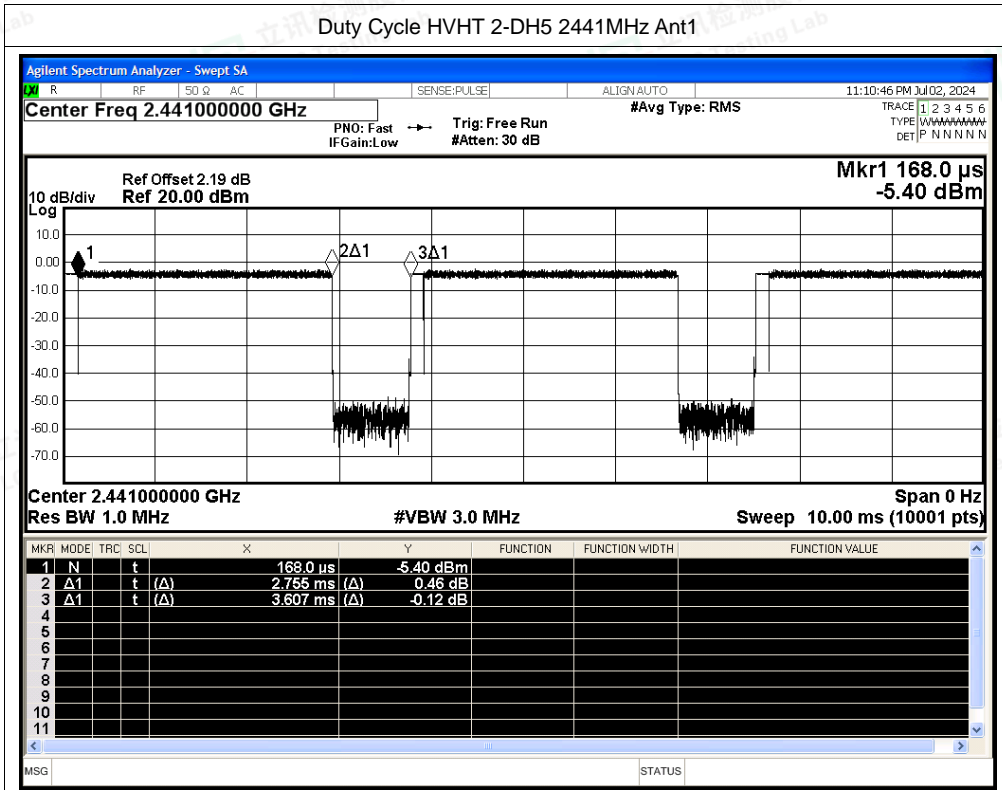


Duty Cycle HVHT 2-DH5 2402MHz Ant1

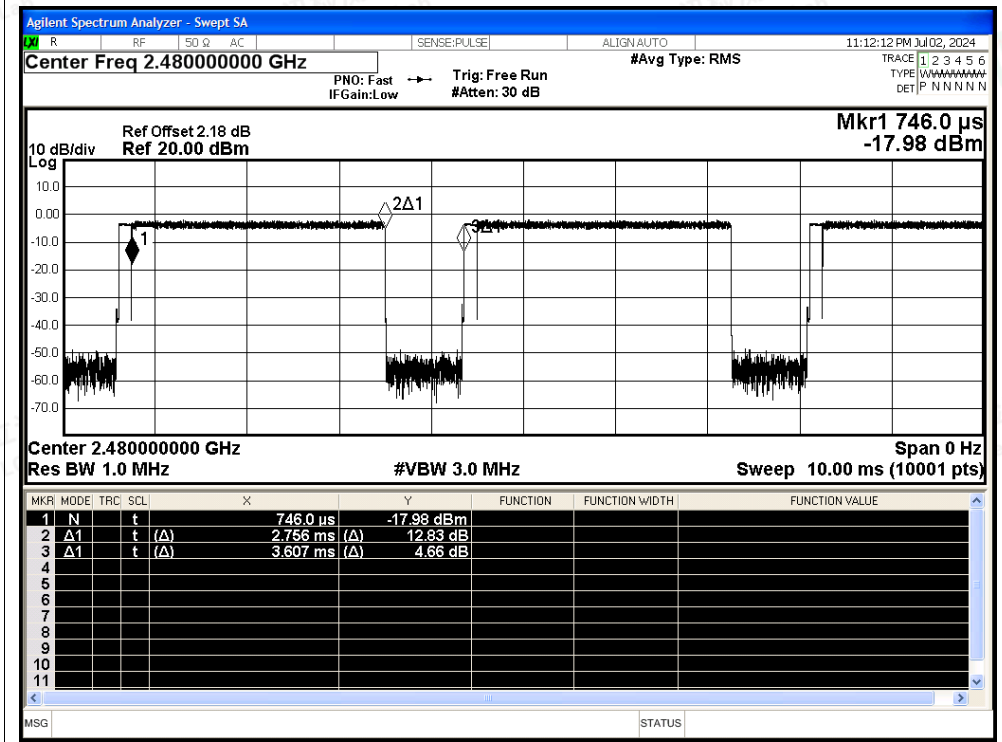




Duty Cycle HVHT 2-DH5 2441MHz Ant1



Duty Cycle HVHT 2-DH5 2480MHz Ant1





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
HVHT	1-DH5	2402	Ant1	No-Hopping	2310	-49.67	2	-	47.59	Peak	74	Pass
HVHT	1-DH5	2402	Ant1	No-Hopping	2310	-58.32	2	1.1	40.04	Average	54	Pass
HVHT	1-DH5	2402	Ant1	No-Hopping	2351.664	-46.87	2	-	50.39	Peak	74	Pass
HVHT	1-DH5	2402	Ant1	No-Hopping	2366.736	-57.53	2	1.1	40.83	Average	54	Pass
HVHT	1-DH5	2402	Ant1	No-Hopping	2390	-50.63	2	-	46.63	Peak	74	Pass
HVHT	1-DH5	2402	Ant1	No-Hopping	2390	-58.23	2	1.1	40.13	Average	54	Pass
HVHT	1-DH5	2480	Ant1	No-Hopping	2483.5	-47.68	2	-	49.58	Peak	74	Pass
HVHT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.81	2	1.1	40.55	Average	54	Pass
HVHT	1-DH5	2480	Ant1	No-Hopping	2490.136	-45.2	2	-	52.06	Peak	74	Pass
HVHT	1-DH5	2480	Ant1	No-Hopping	2496.52	-57.02	2	1.1	41.34	Average	54	Pass
HVHT	1-DH5	2480	Ant1	No-Hopping	2500	-49.7	2	-	47.56	Peak	74	Pass
HVHT	1-DH5	2480	Ant1	No-Hopping	2500	-57.83	2	1.1	40.53	Average	54	Pass
HVHT	2-DH5	2402	Ant1	No-Hopping	2310	-50.88	2	-	46.38	Peak	74	Pass
HVHT	2-DH5	2402	Ant1	No-Hopping	2310	-57.97	2	1.17	40.46	Average	54	Pass
HVHT	2-DH5	2402	Ant1	No-Hopping	2340.24	-46.55	2	-	50.71	Peak	74	Pass
HVHT	2-DH5	2402	Ant1	No-Hopping	2385.744	-57.31	2	1.17	41.12	Average	54	Pass
HVHT	2-DH5	2402	Ant1	No-Hopping	2390	-49.43	2	-	47.83	Peak	74	Pass
HVHT	2-DH5	2402	Ant1	No-Hopping	2390	-58.11	2	1.17	40.32	Average	54	Pass
HVHT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.5	2	-	47.76	Peak	74	Pass
HVHT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.79	2	1.17	40.64	Average	54	Pass
HVHT	2-DH5	2480	Ant1	No-Hopping	2487.016	-46.86	2	-	50.4	Peak	74	Pass
HVHT	2-DH5	2480	Ant1	No-Hopping	2498.848	-56.84	2	1.17	41.59	Average	54	Pass
HVHT	2-DH5	2480	Ant1	No-Hopping	2500	-49.66	2	-	47.6	Peak	74	Pass
HVHT	2-DH5	2480	Ant1	No-Hopping	2500	-58.08	2	1.17	40.35	Average	54	Pass

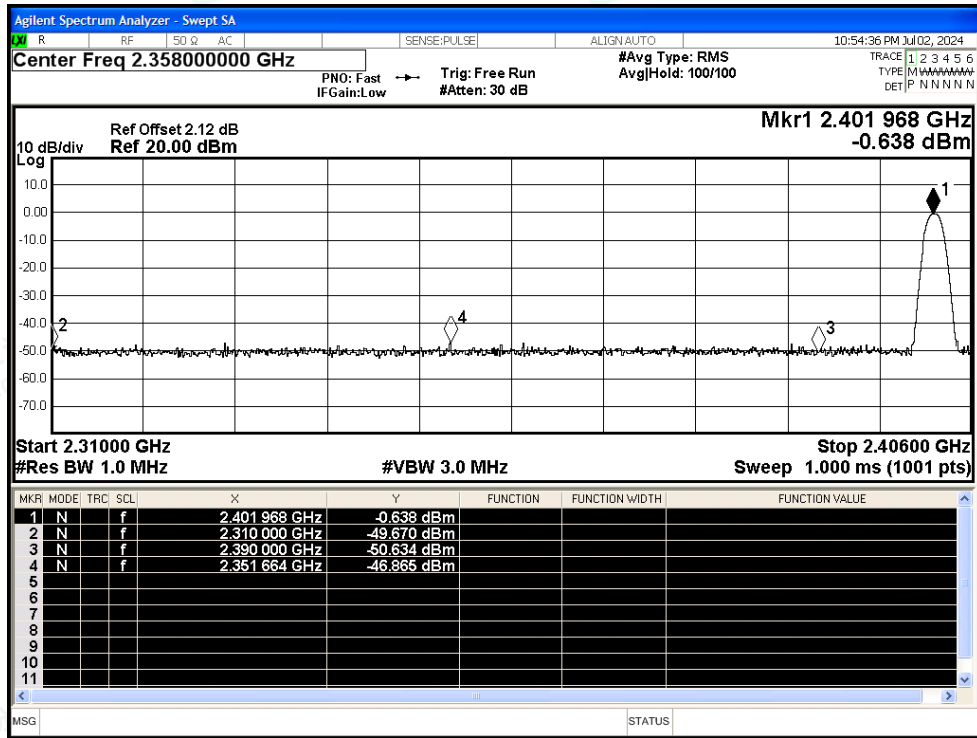


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 Scan code to check authenticity

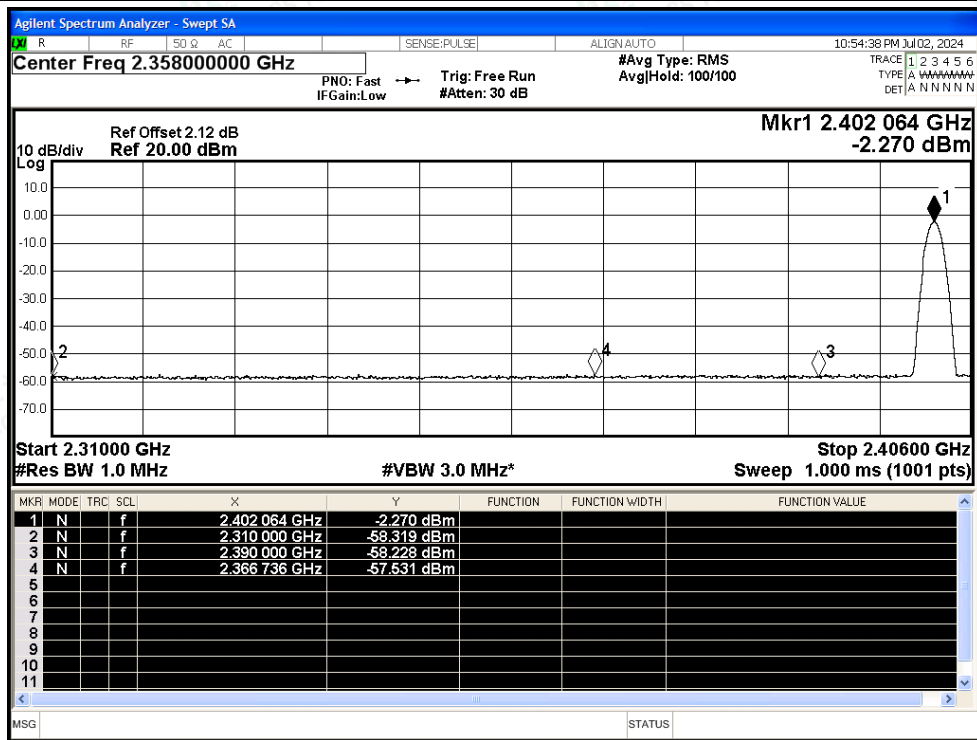


Test Graphs

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

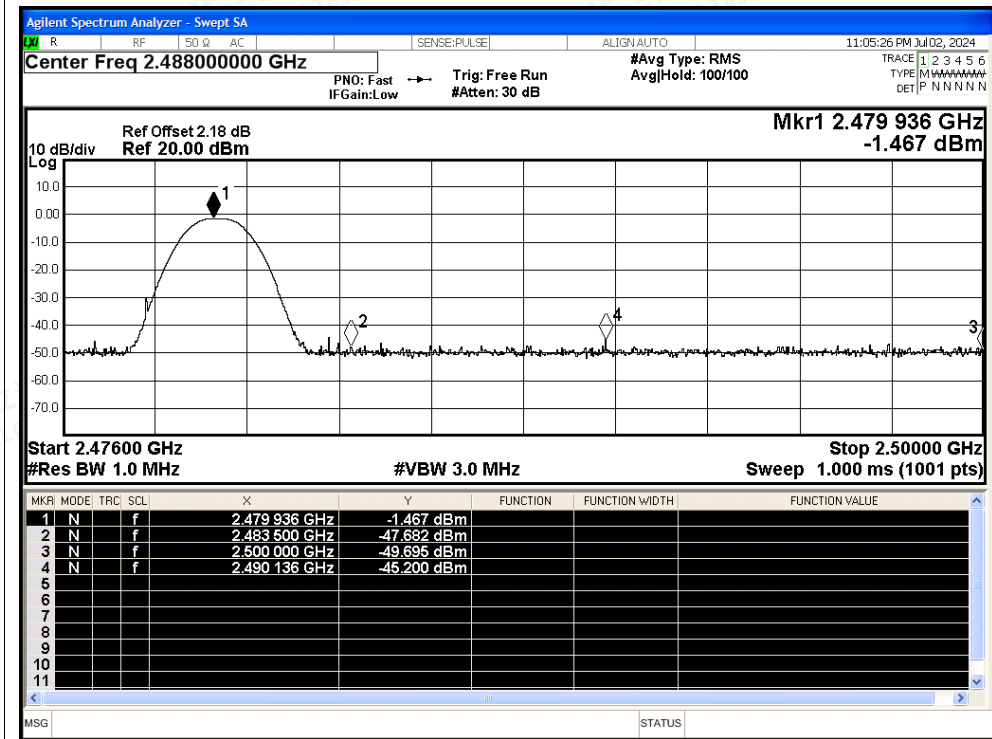


Restrict Band HVHT 1-DH5 2402MHz Ant1 No-Hopping Average

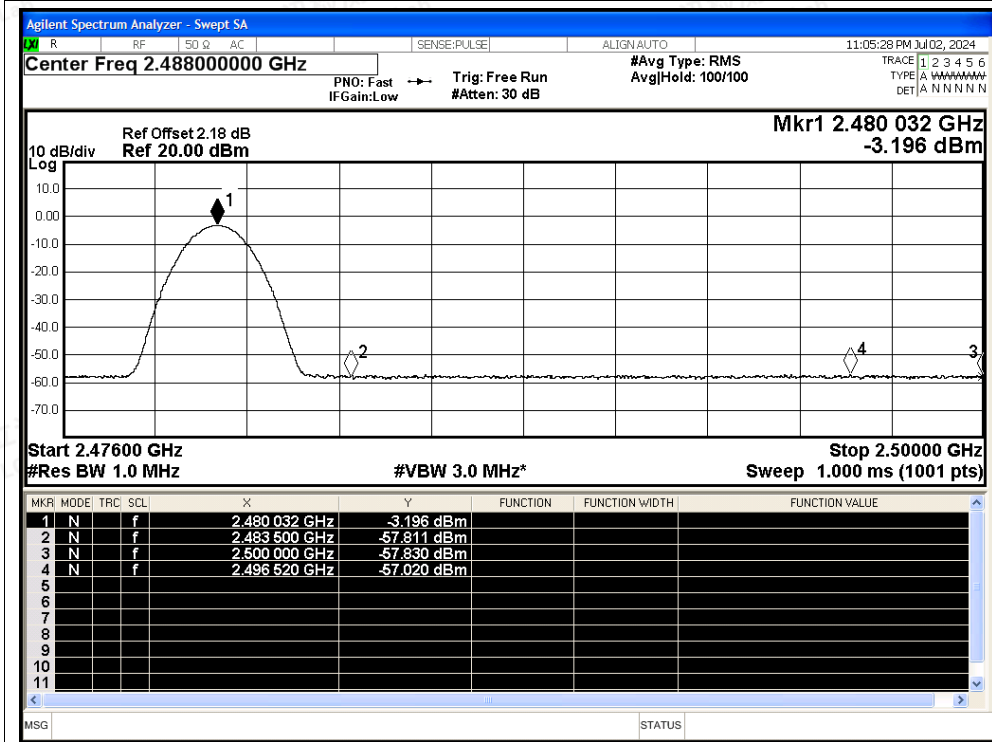




Restrict Band HVHT 1-DH5 2480MHz Ant1 No-Hopping Peak

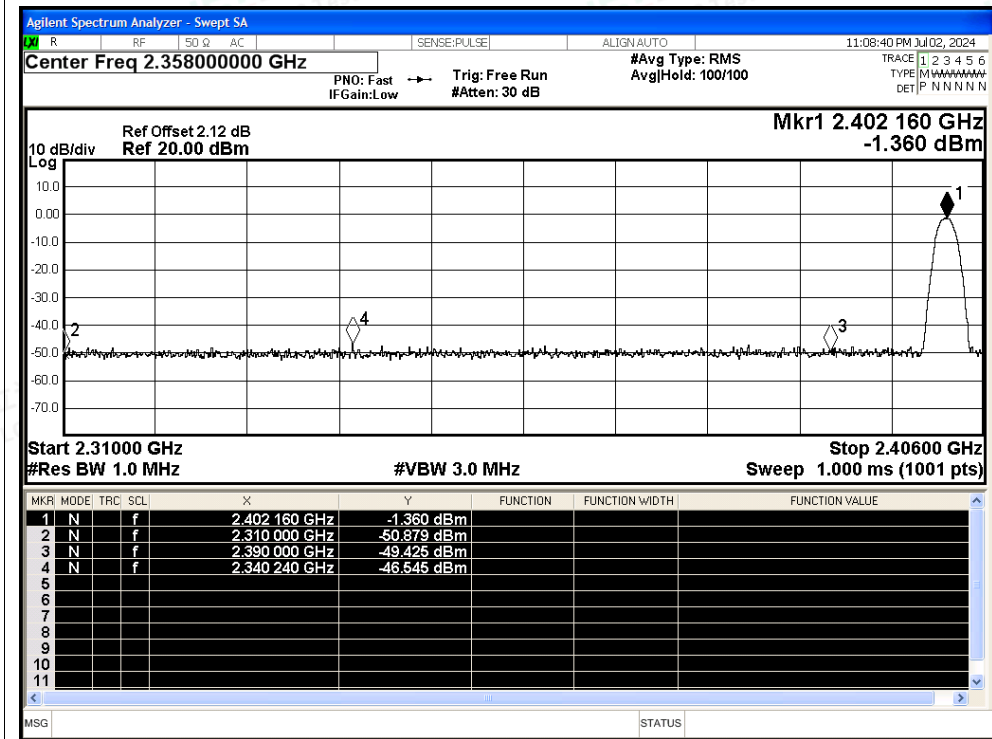


Restrict Band HVHT 1-DH5 2480MHz Ant1 No-Hopping Average

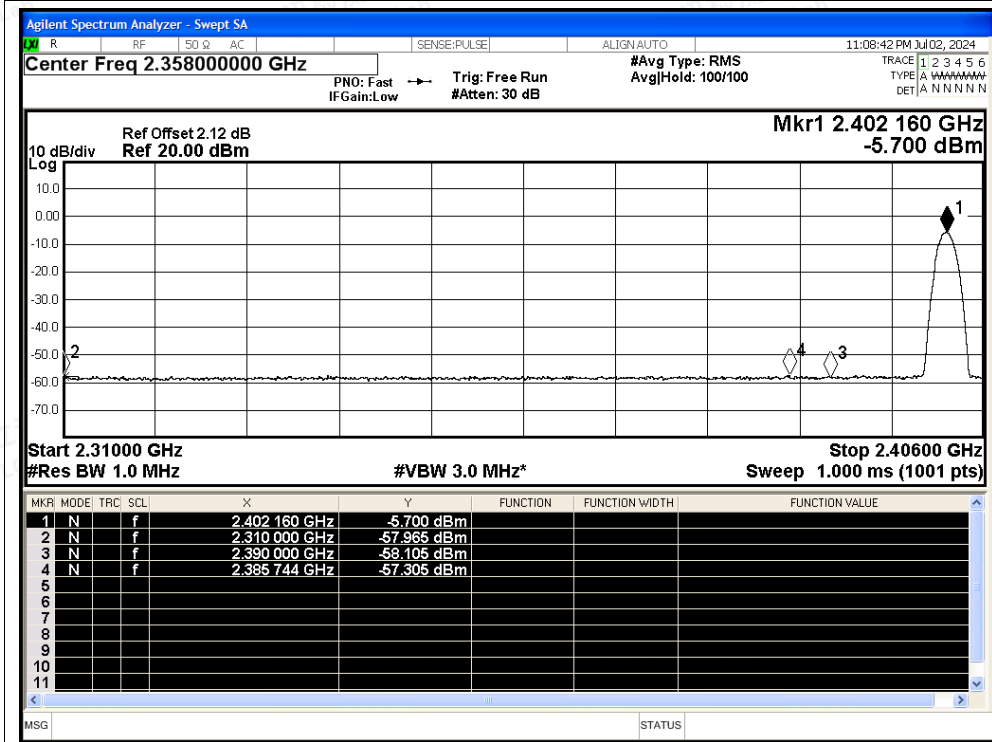




Restrict Band HVHT 2-DH5 2402MHz Ant1 No-Hopping Peak

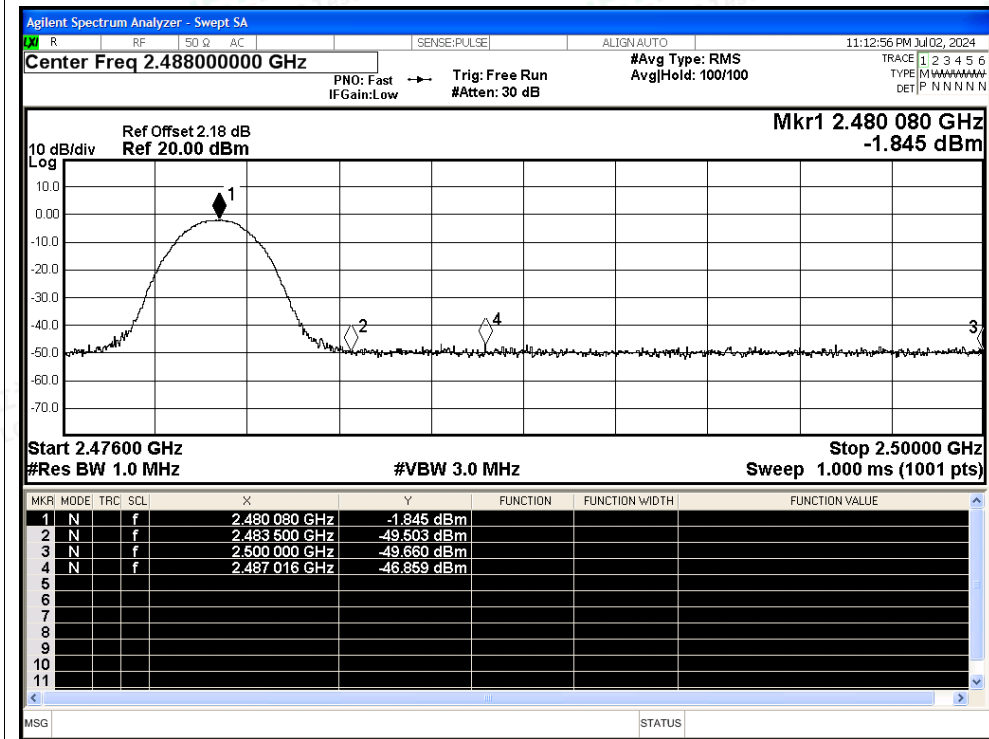


Restrict Band HVHT 2-DH5 2402MHz Ant1 No-Hopping Average





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



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

