



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Multi-function wireless desk lamp

Test Model: 603

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Nick Peng
Supervised by:	Li Huan





A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVLT	1-DH5	2402	Ant1	0.847	N/A	Pass
NVLT	1-DH5	2441	Ant1	0.857	N/A	Pass
NVLT	1-DH5	2480	Ant1	0.849	N/A	Pass
NVLT	2-DH5	2402	Ant1	1.282	N/A	Pass
NVLT	2-DH5	2441	Ant1	1.282	N/A	Pass
NVLT	2-DH5	2480	Ant1	1.307	N/A	Pass

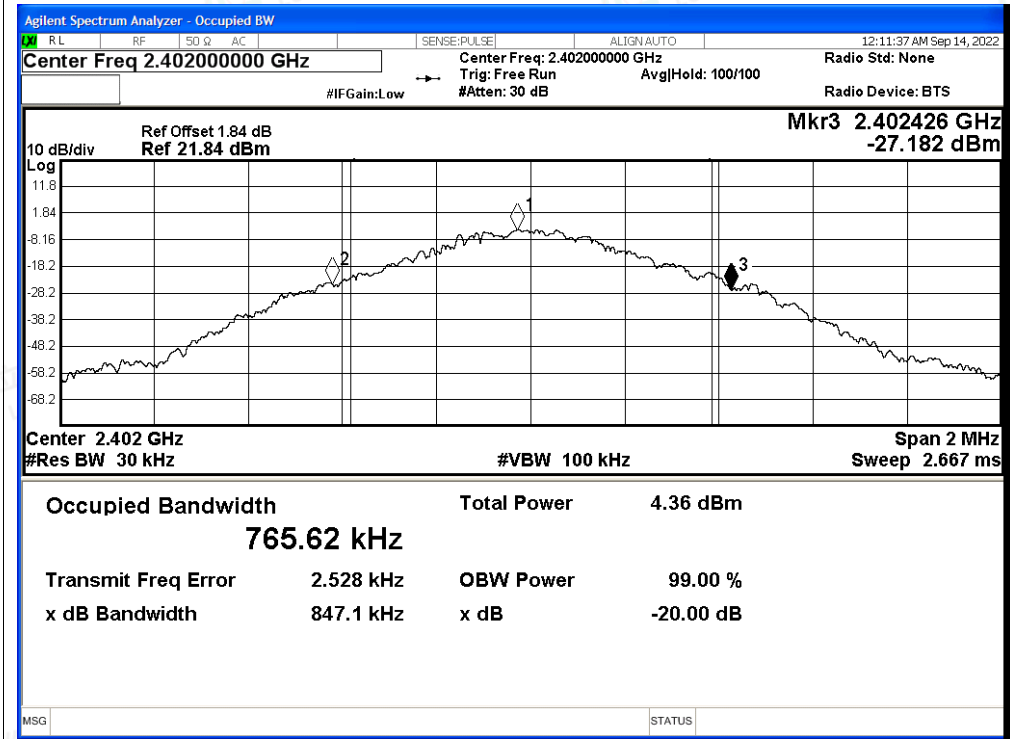


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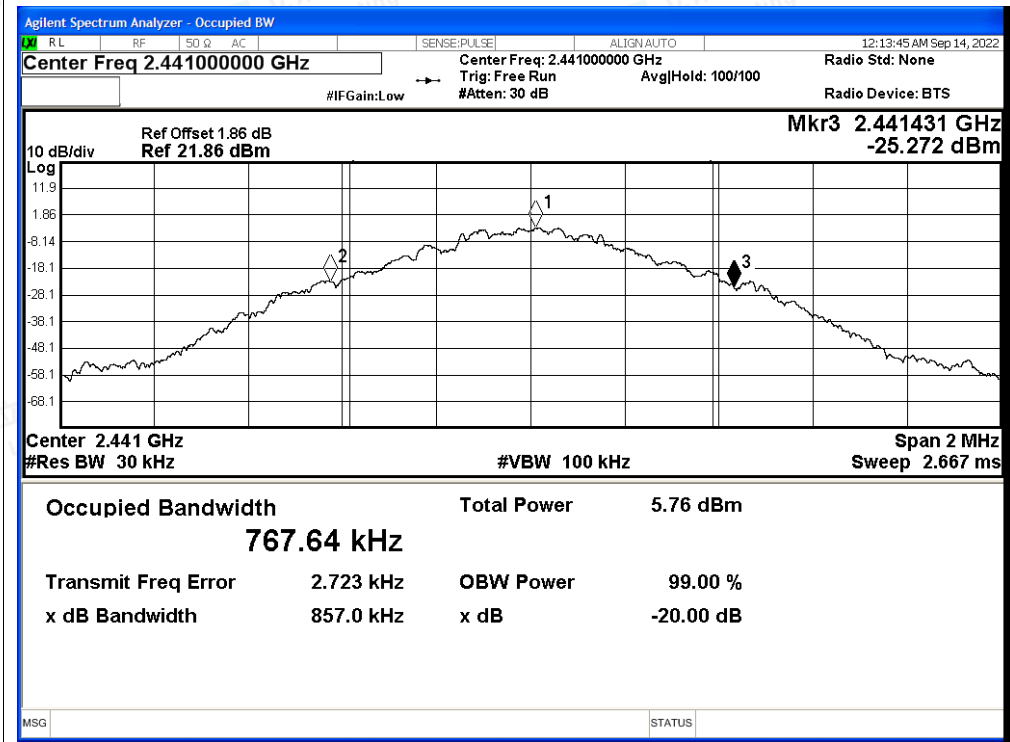


Test Graphs

-20dB Bandwidth NVLT 1-DH5 2402MHz Ant1

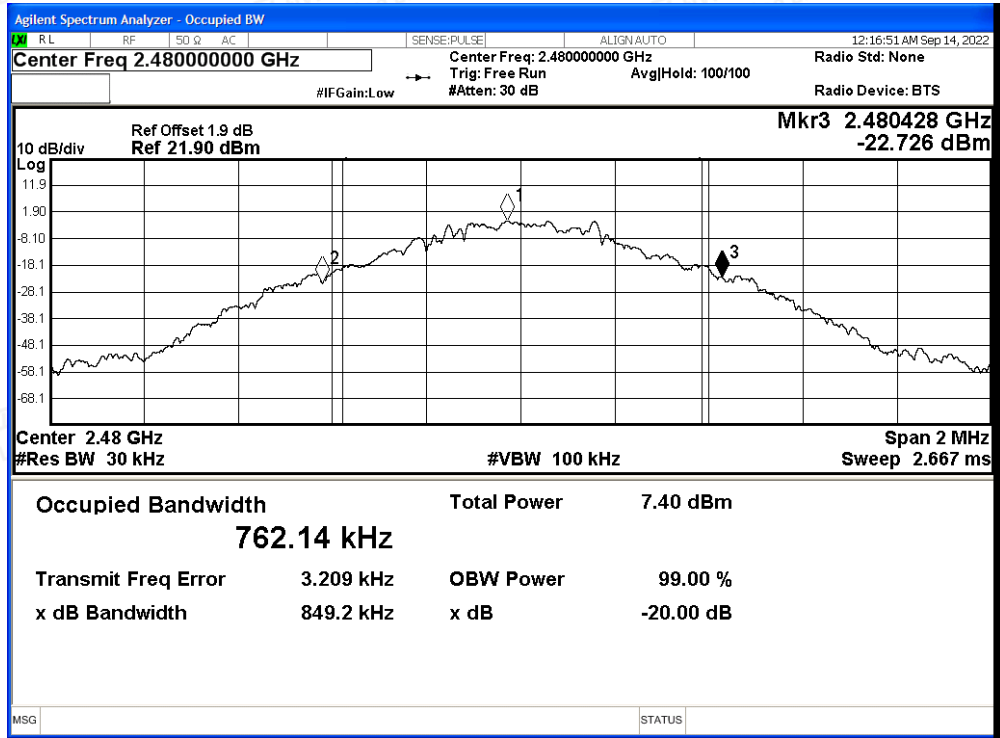


-20dB Bandwidth NVLT 1-DH5 2441MHz Ant1

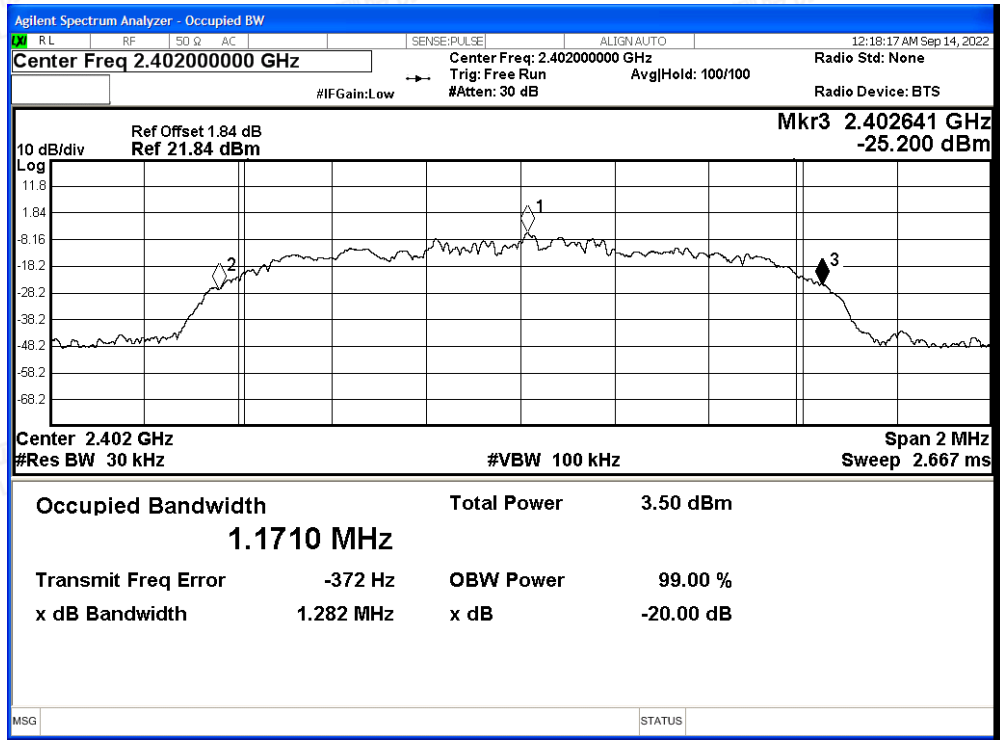




-20dB Bandwidth NVLT 1-DH5 2480MHz Ant1

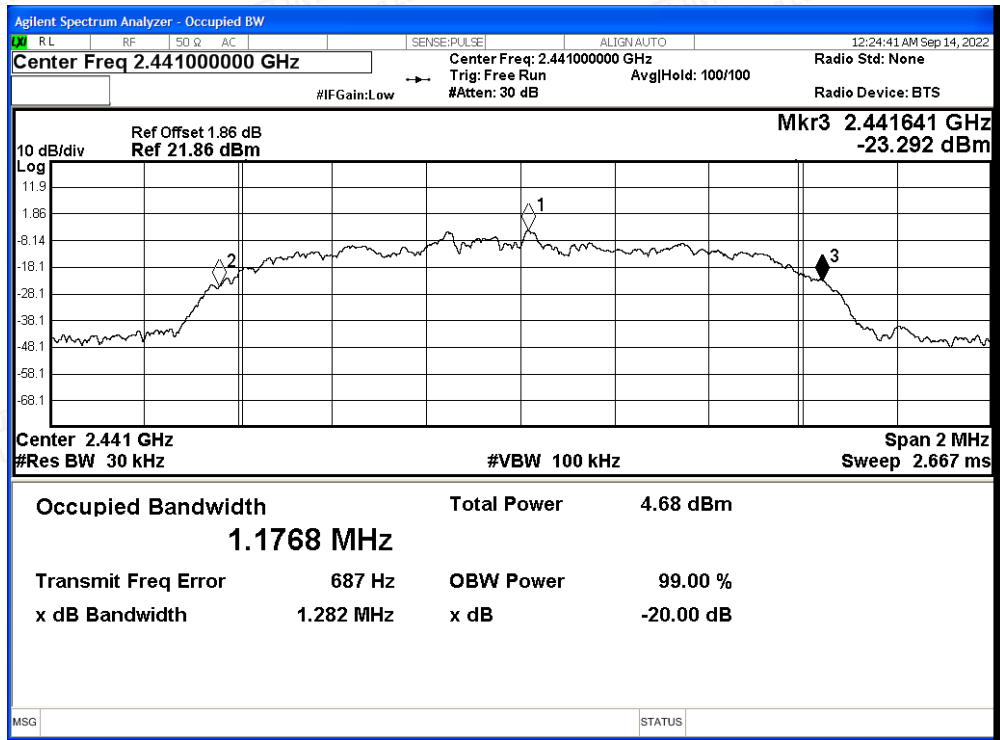


-20dB Bandwidth NVLT 2-DH5 2402MHz Ant1

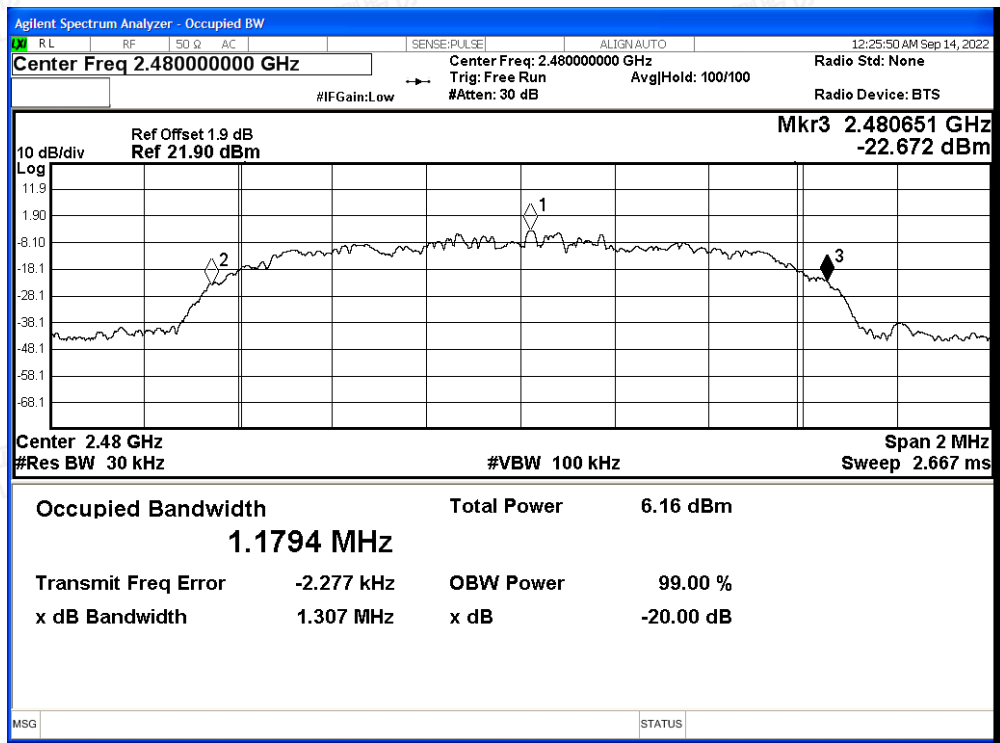




-20dB Bandwidth NVLT 2-DH5 2441MHz Ant1



-20dB Bandwidth NVLT 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
NVLT	1-DH5	2402	Ant1	-1.48	0	-1.48	21	Pass
NVLT	1-DH5	2441	Ant1	-0.02	0	-0.02	21	Pass
NVLT	1-DH5	2480	Ant1	1.48	0	1.48	21	Pass
NVLT	2-DH5	2402	Ant1	-1.39	0	-1.39	21	Pass
NVLT	2-DH5	2441	Ant1	0.06	0	0.06	21	Pass
NVLT	2-DH5	2480	Ant1	1.52	0	1.52	21	Pass

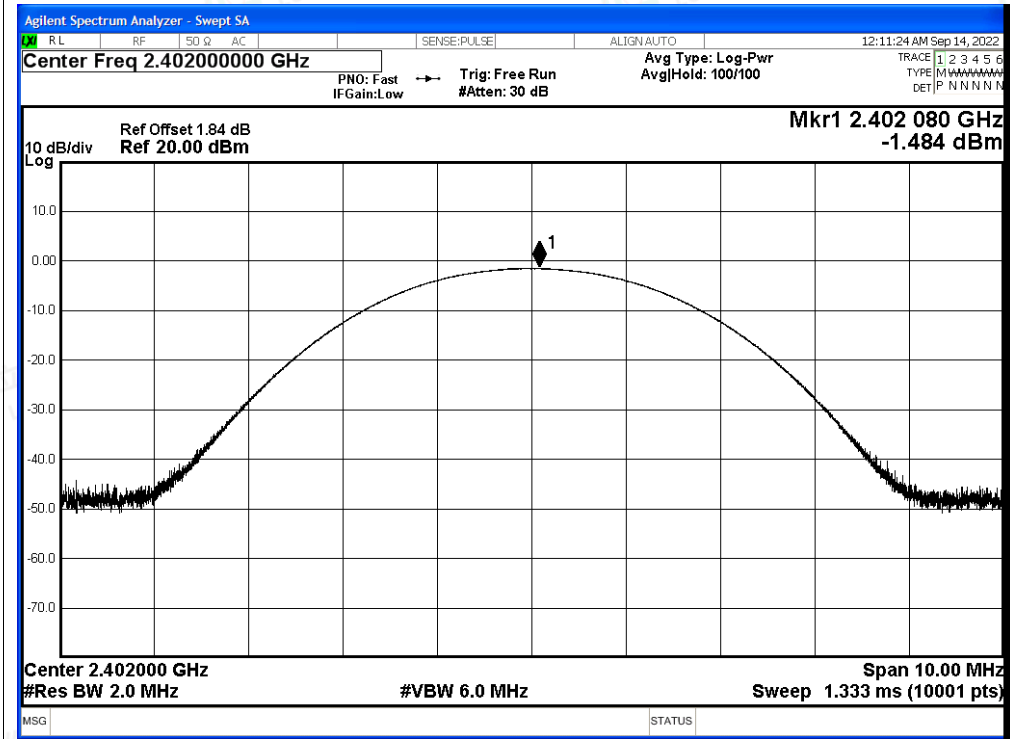


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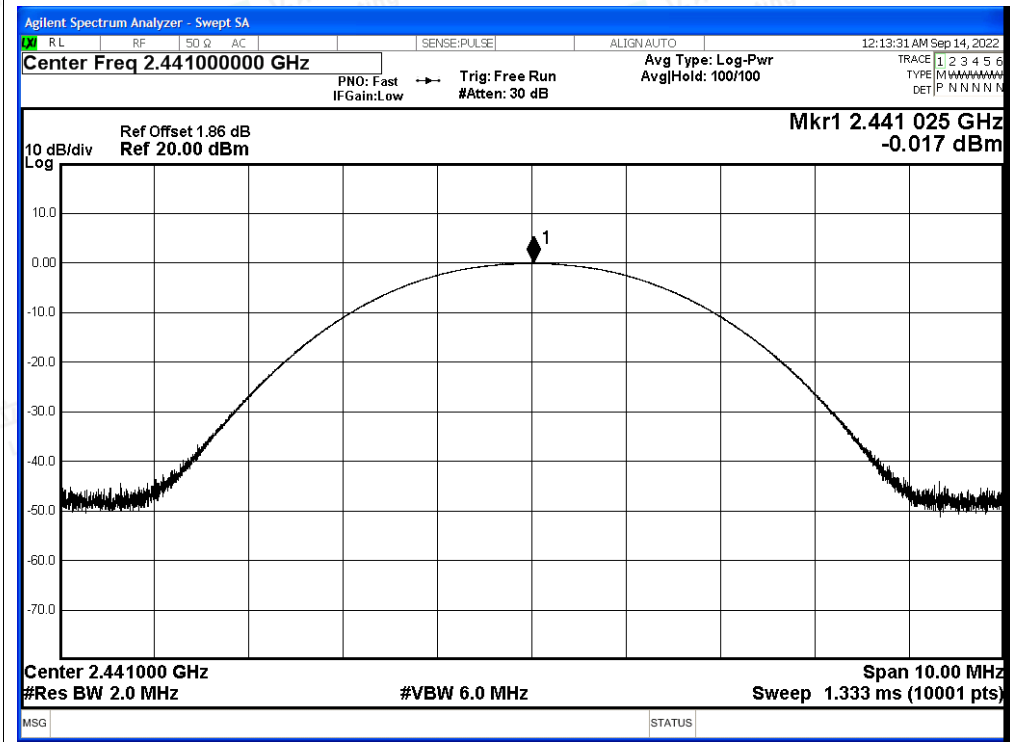


Test Graphs

Power NVLT 1-DH5 2402MHz Ant1

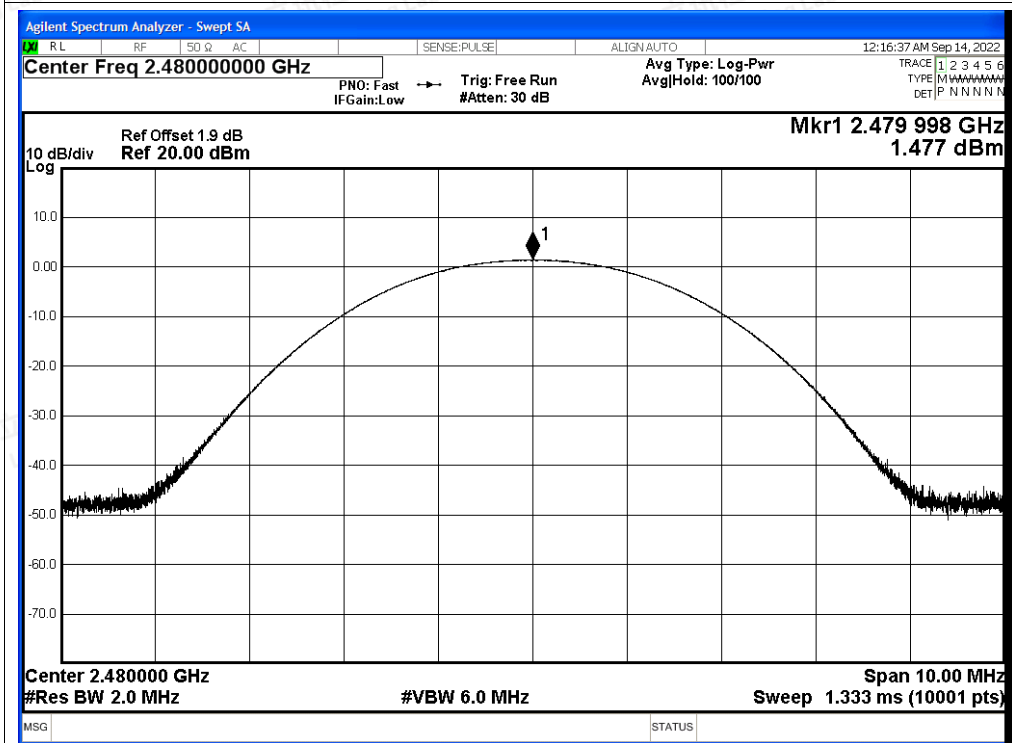


Power NVLT 1-DH5 2441MHz Ant1

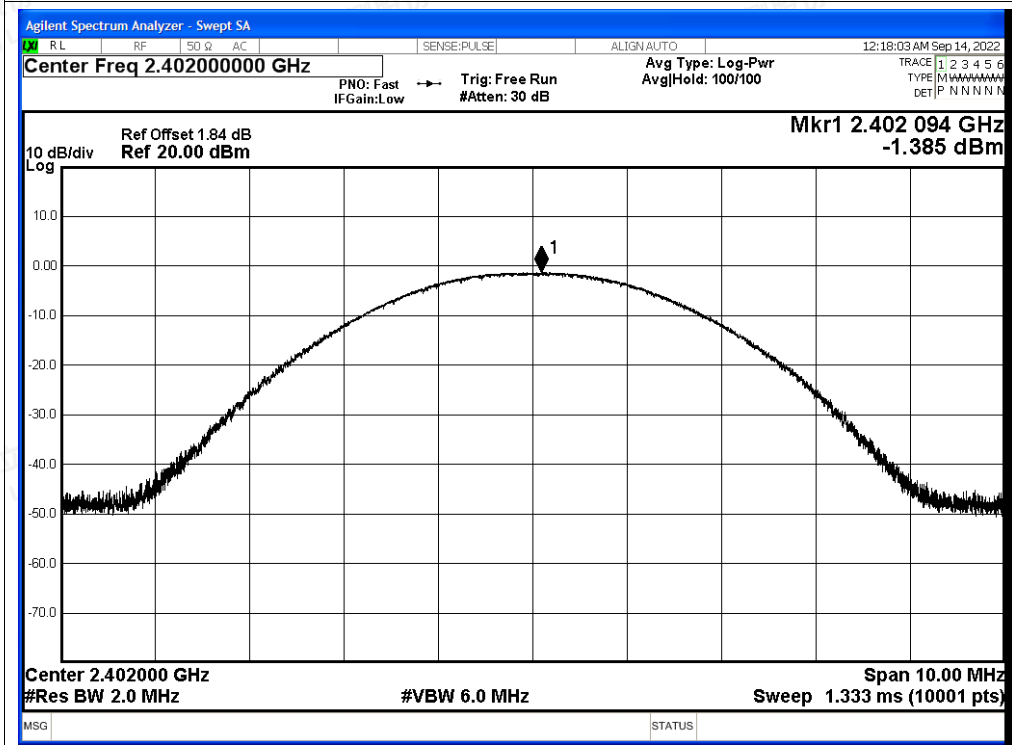




Power NVLT 1-DH5 2480MHz Ant1

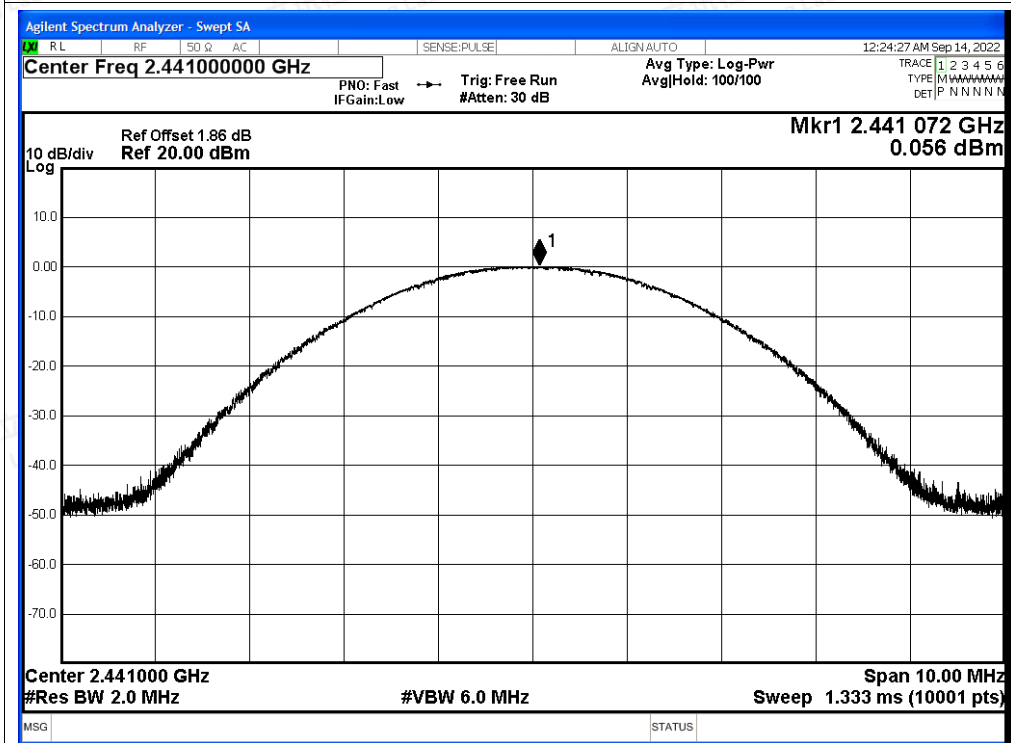


Power NVLT 2-DH5 2402MHz Ant1

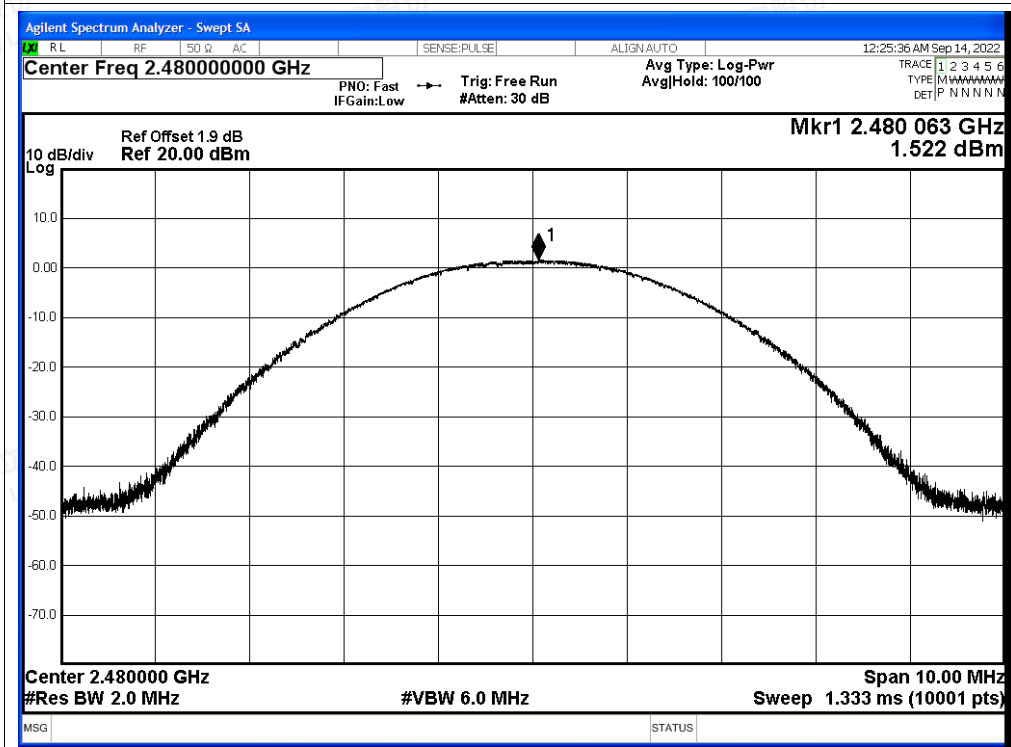




Power NVLT 2-DH5 2441MHz Ant1



Power NVLT 2-DH5 2480MHz Ant1





A.3 Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVLT	1-DH5	Ant1	2402.012	2403.016	1.004	0.565	Pass
NVLT	2-DH5	Ant1	2402.012	2403.018	1.006	0.855	Pass

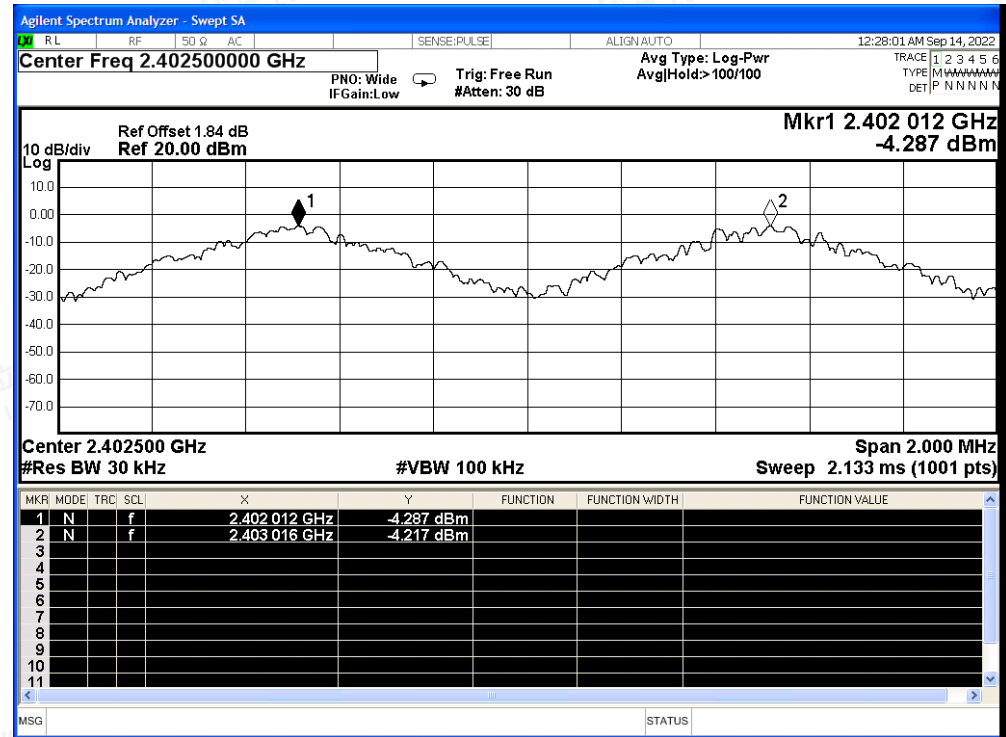


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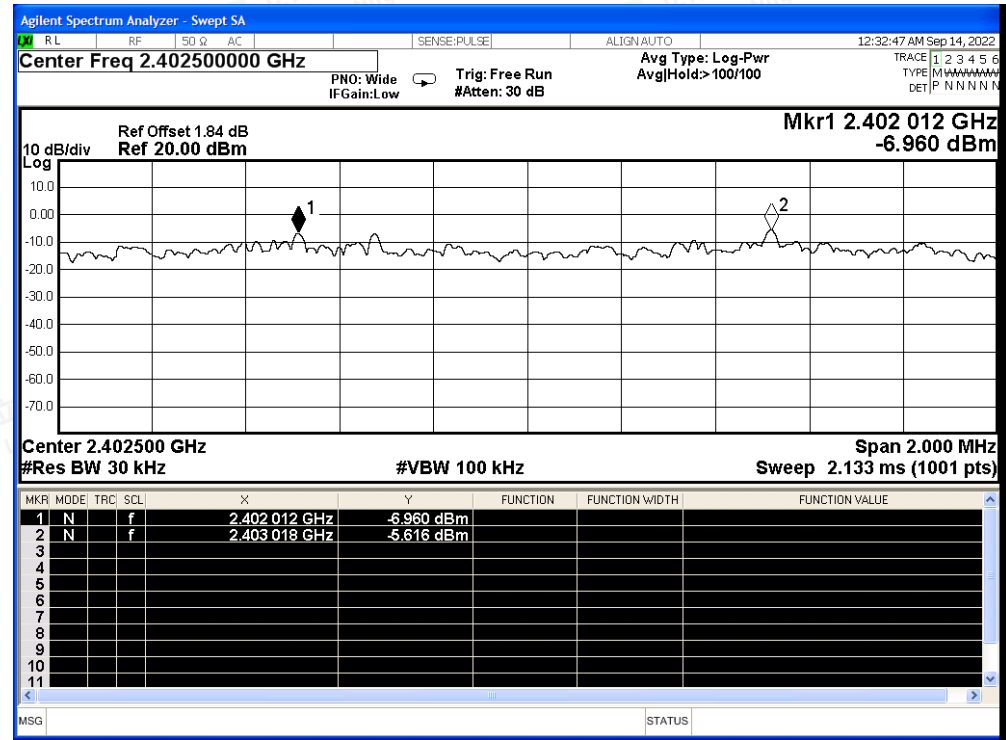


Test Graphs

CFS NVLT 1-DH5 2402MHz Ant1



CFS NVLT 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
NVLT	1-DH5	2402	Ant1	2.882	262.262	91	31600	400	Pass
NVLT	2-DH5	2402	Ant1	2.885	288.5	100	31600	400	Pass

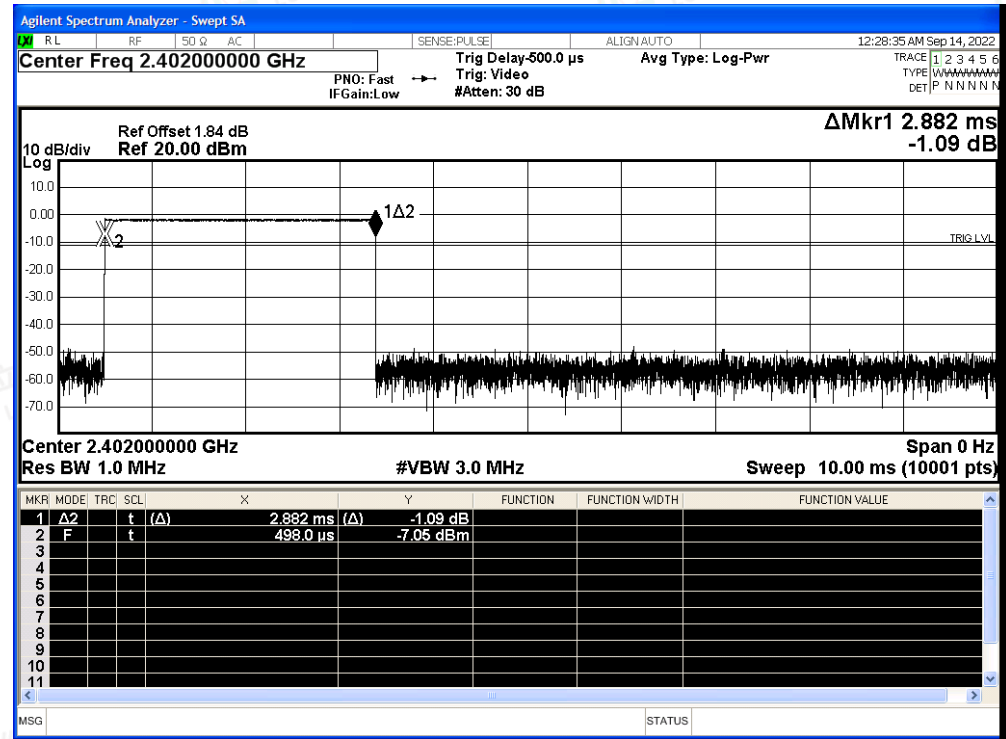


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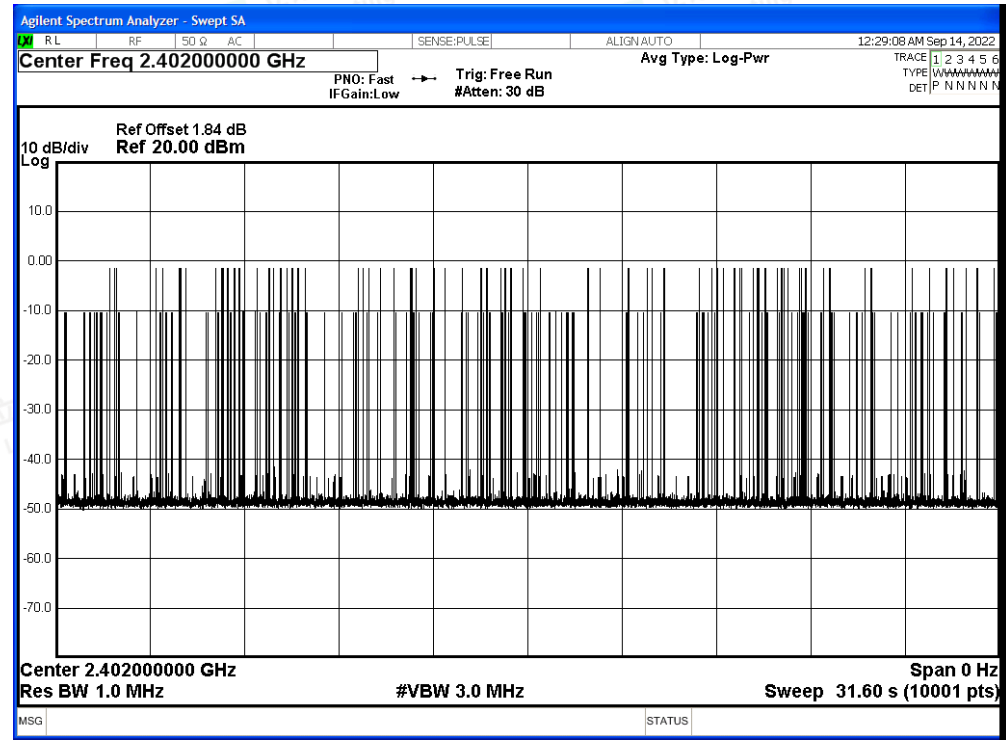


Test Graphs

Dwell NVLT 1-DH5 2402MHz Ant1 One Burst

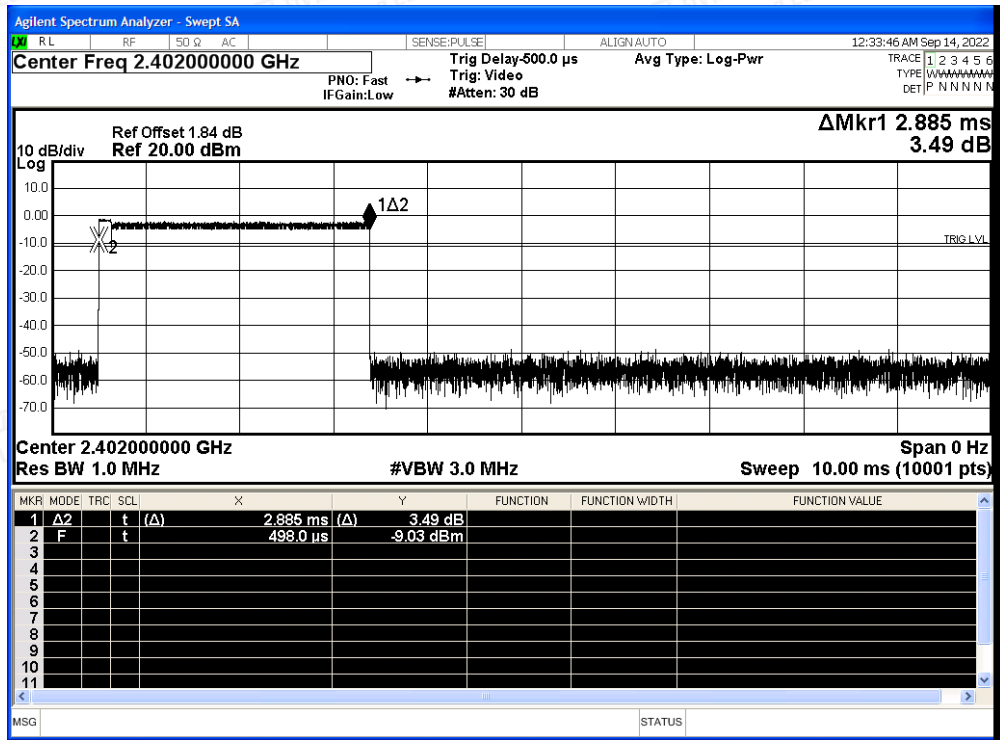


Dwell NVLT 1-DH5 2402MHz Ant1 Accumulated

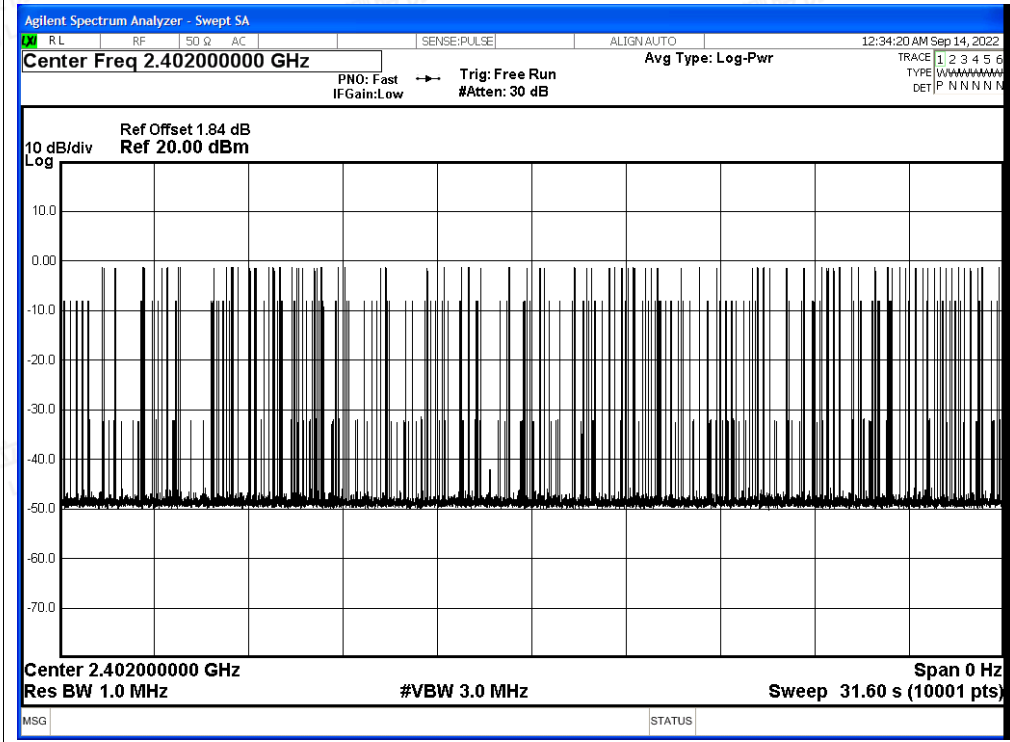




Dwell NVLT 2-DH5 2402MHz Ant1 One Burst



Dwell NVLT 2-DH5 2402MHz Ant1 Accumulated





A.5 Number of Hopping Channel

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

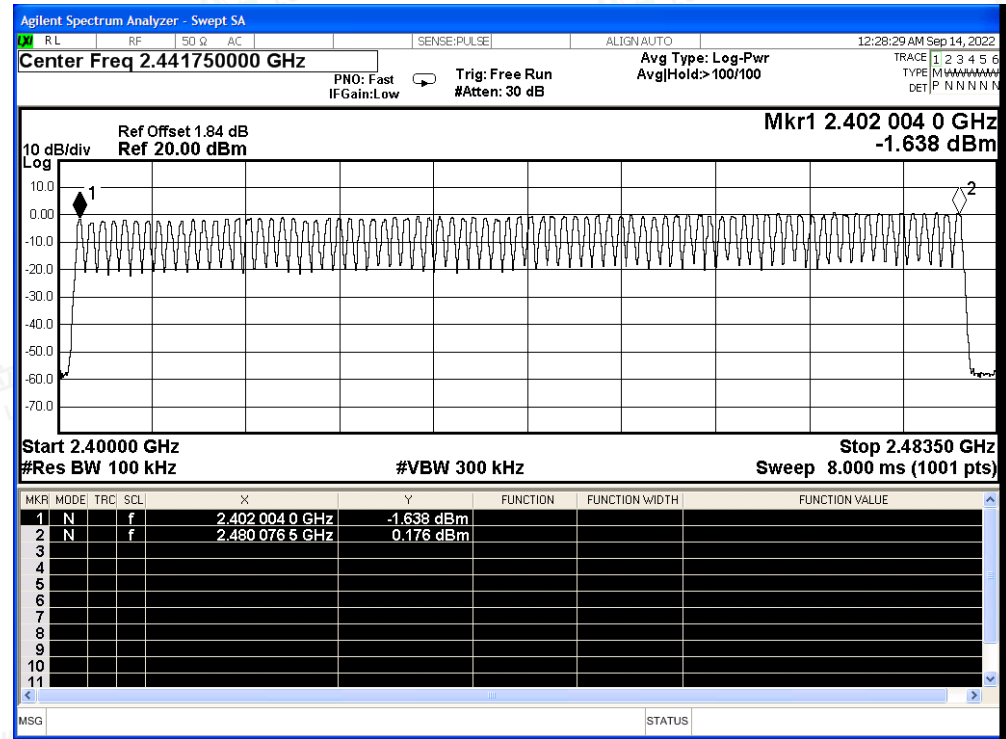


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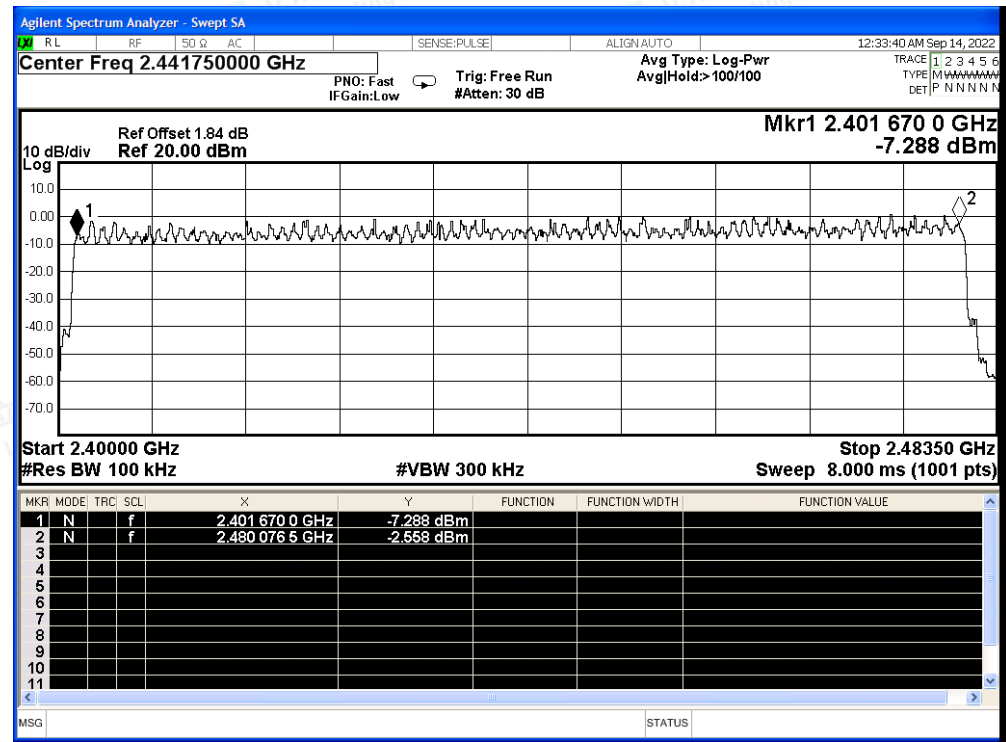


Test Graphs

Hopping No. NVLT 1-DH5 2402MHz Ant1



Hopping No. NVLT 2-DH5 2402MHz Ant1





A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVLT	1-DH5	2402	Ant1	No-Hopping	-54.59	-20	Pass
NVLT	1-DH5	2480	Ant1	No-Hopping	-57.96	-20	Pass
NVLT	2-DH5	2402	Ant1	No-Hopping	-50.82	-20	Pass
NVLT	2-DH5	2480	Ant1	No-Hopping	-57	-20	Pass

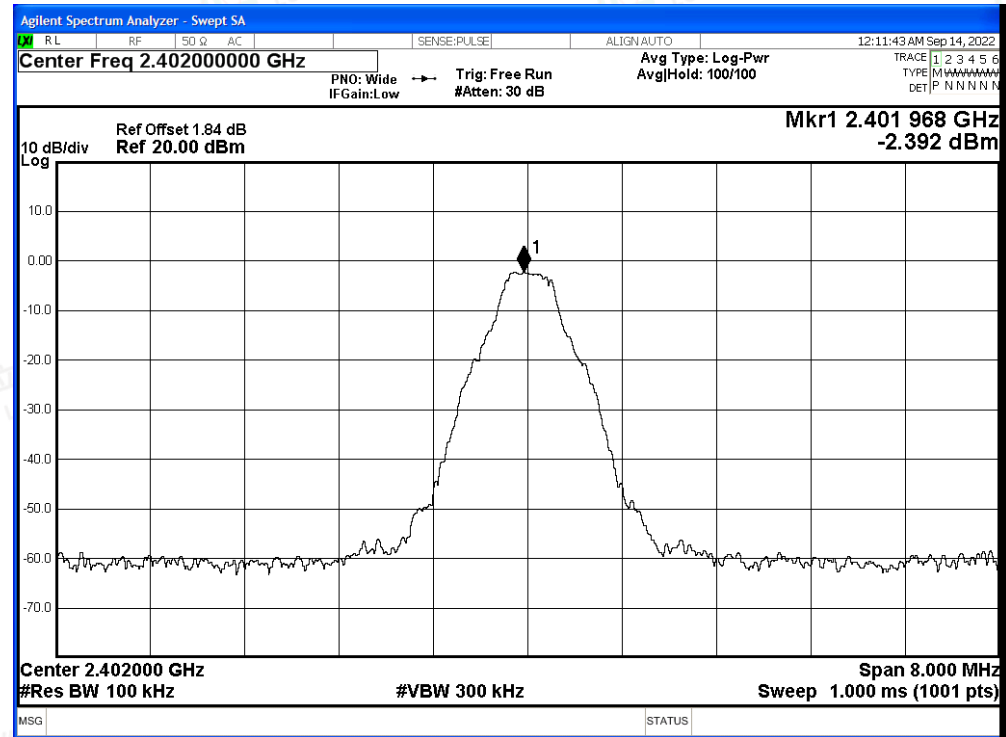


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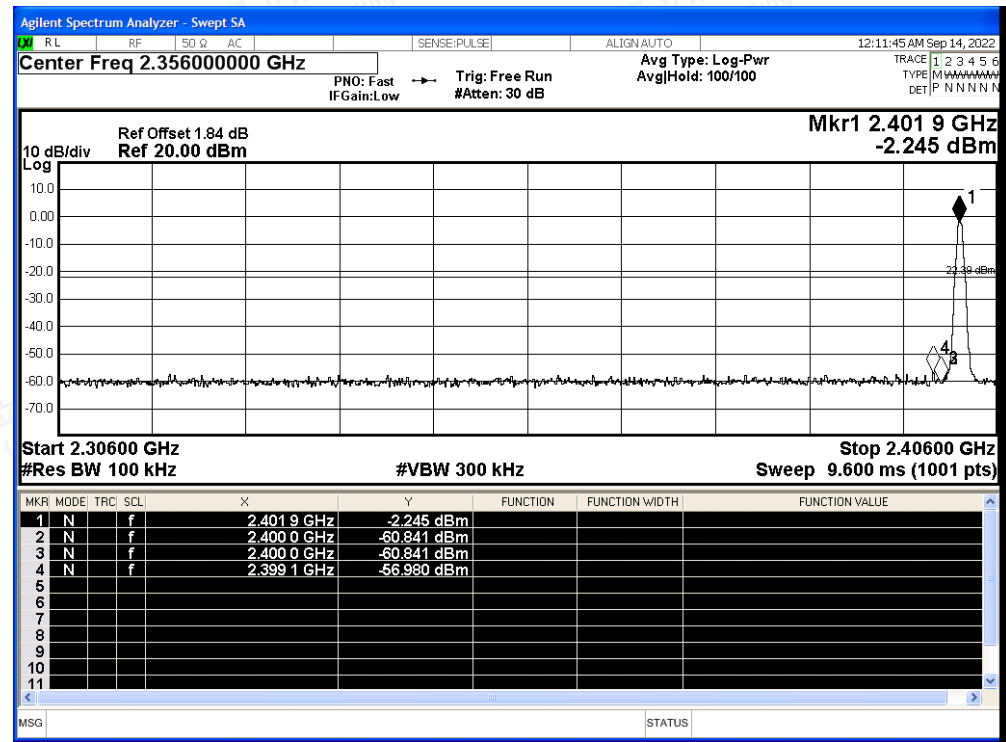


Test Graphs

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

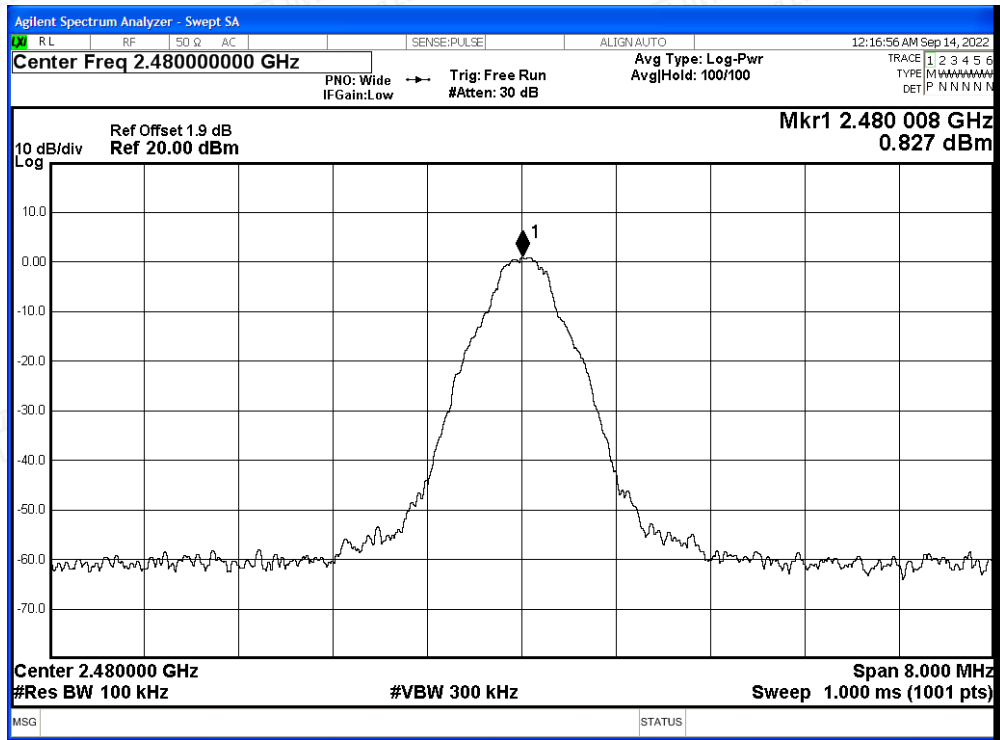


Band Edge NVLT 1-DH5 2402MHz Ant1 No-Hopping Emission

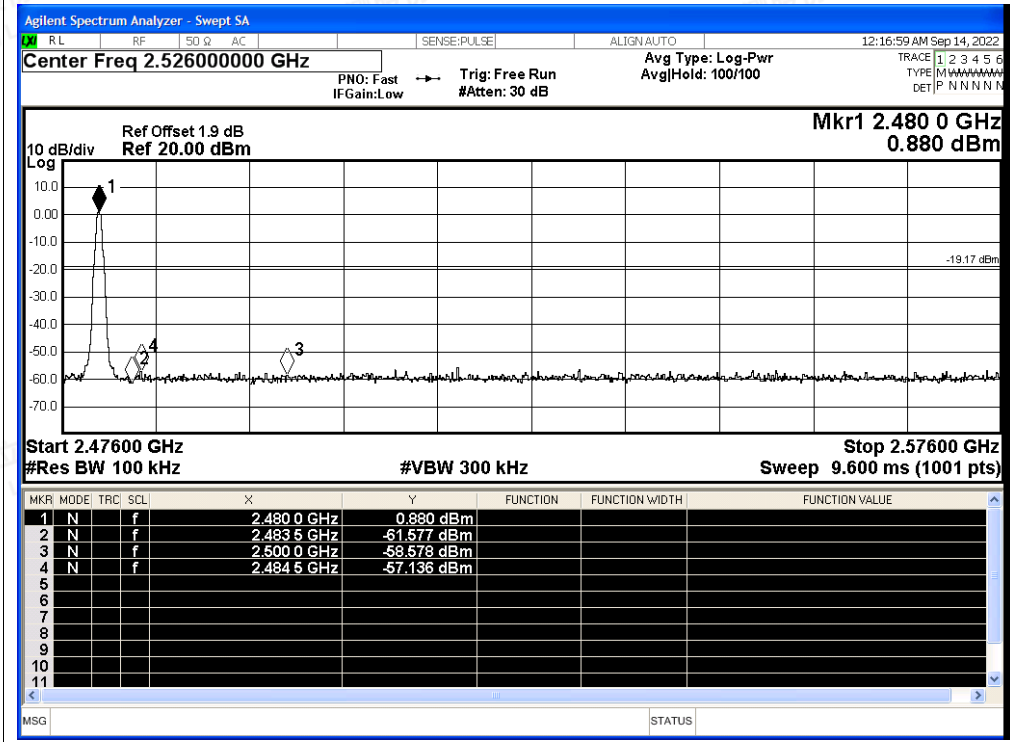




Band Edge NVLT 1-DH5 2480MHz Ant1 No-Hopping Ref

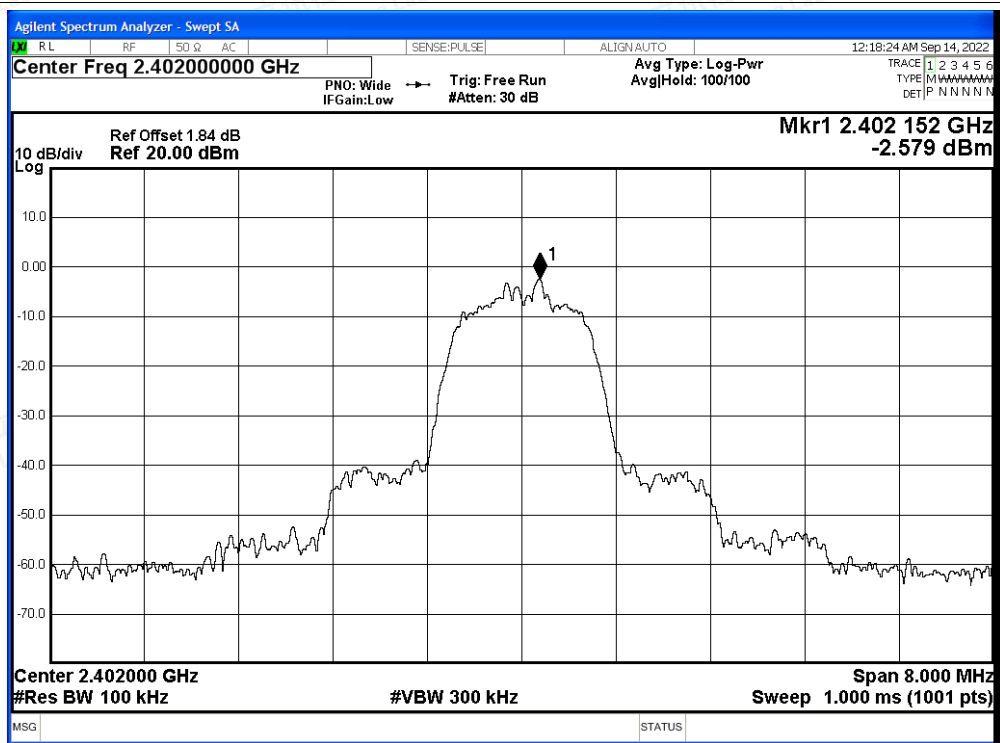


Band Edge NVLT 1-DH5 2480MHz Ant1 No-Hopping Emission

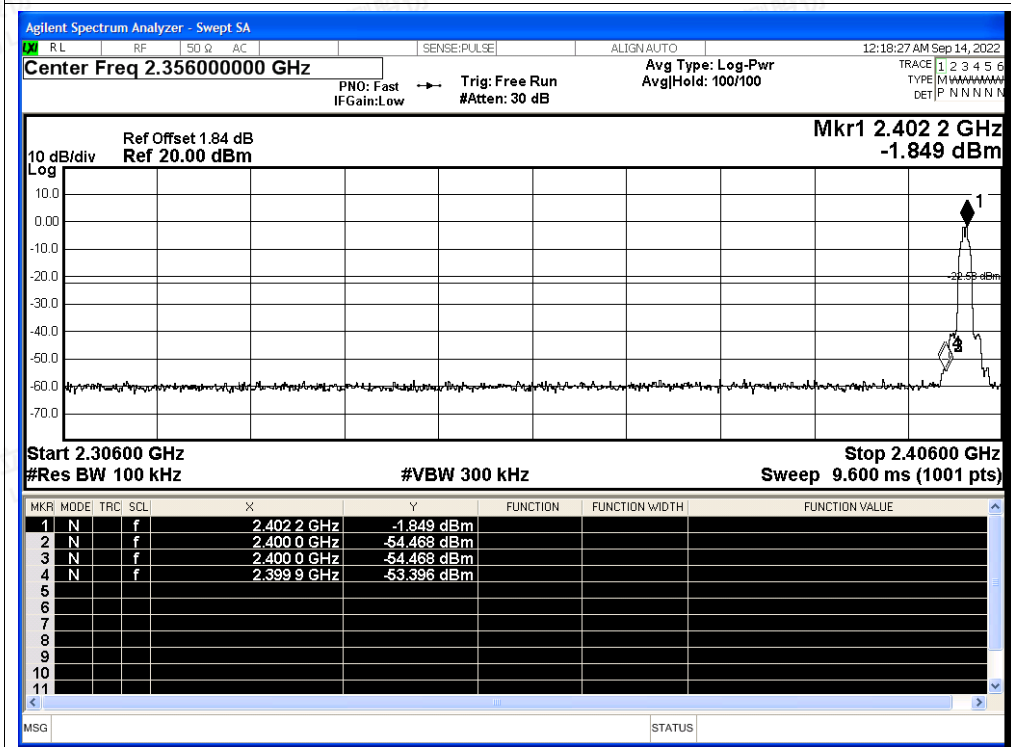




Band Edge NVLT 2-DH5 2402MHz Ant1 No-Hopping Ref

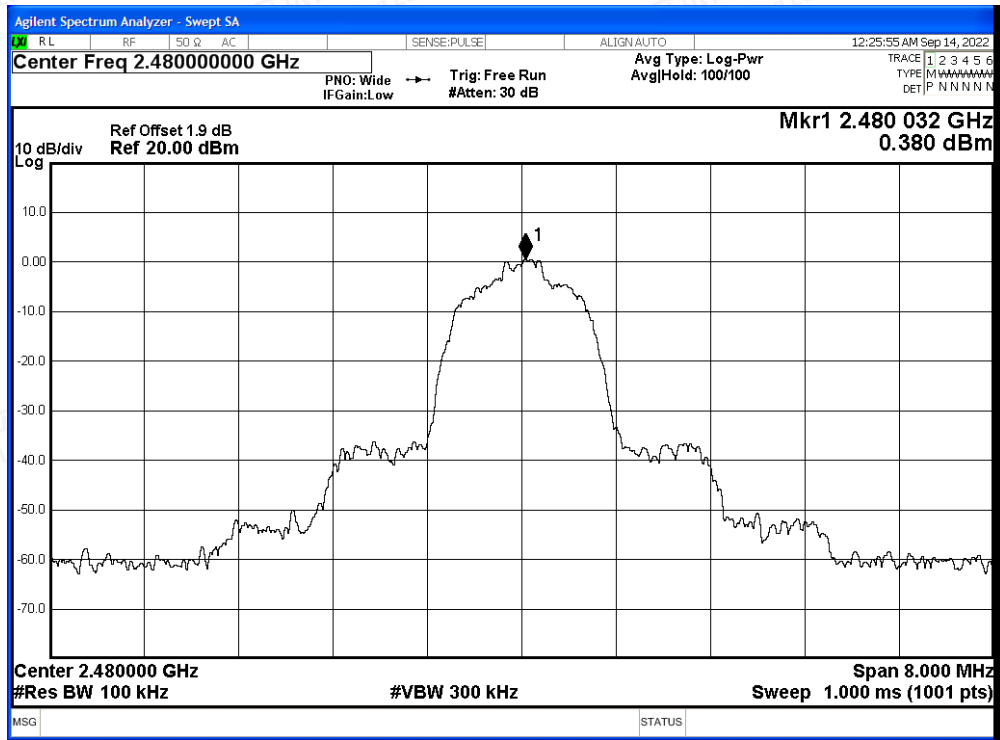


Band Edge NVLT 2-DH5 2402MHz Ant1 No-Hopping Emission

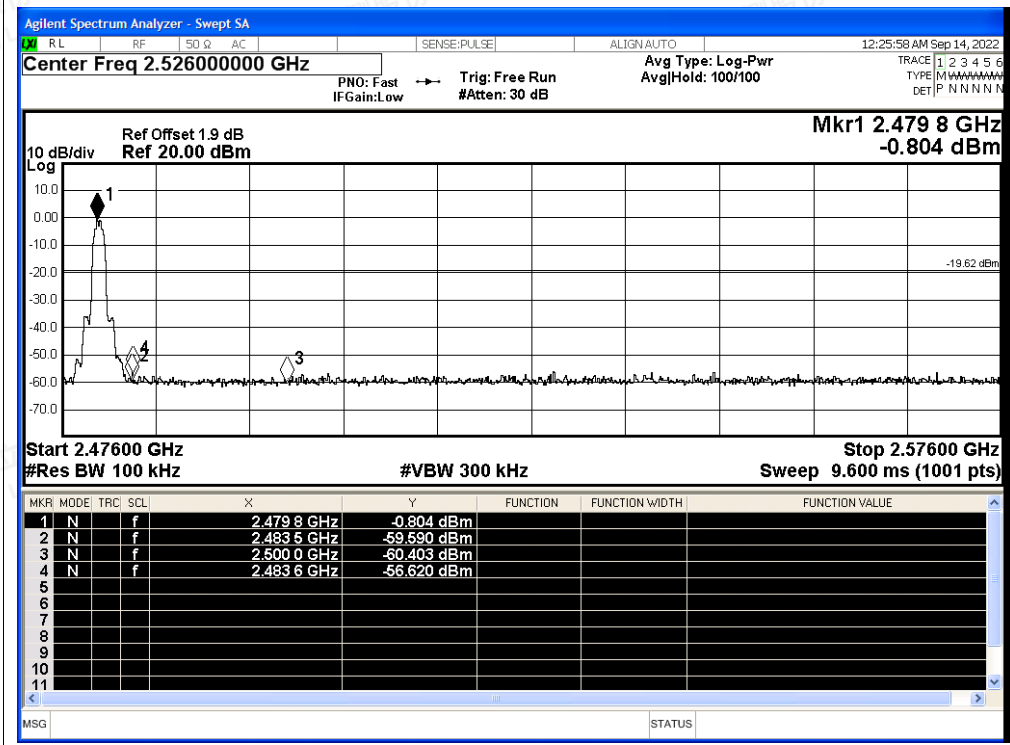




Band Edge NVLT 2-DH5 2480MHz Ant1 No-Hopping Ref



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





(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVLT	1-DH5	2402	Ant1	Hopping	-54.53	-20	Pass
NVLT	1-DH5	2480	Ant1	Hopping	-57.46	-20	Pass
NVLT	2-DH5	2402	Ant1	Hopping	-53.78	-20	Pass
NVLT	2-DH5	2480	Ant1	Hopping	-56.71	-20	Pass

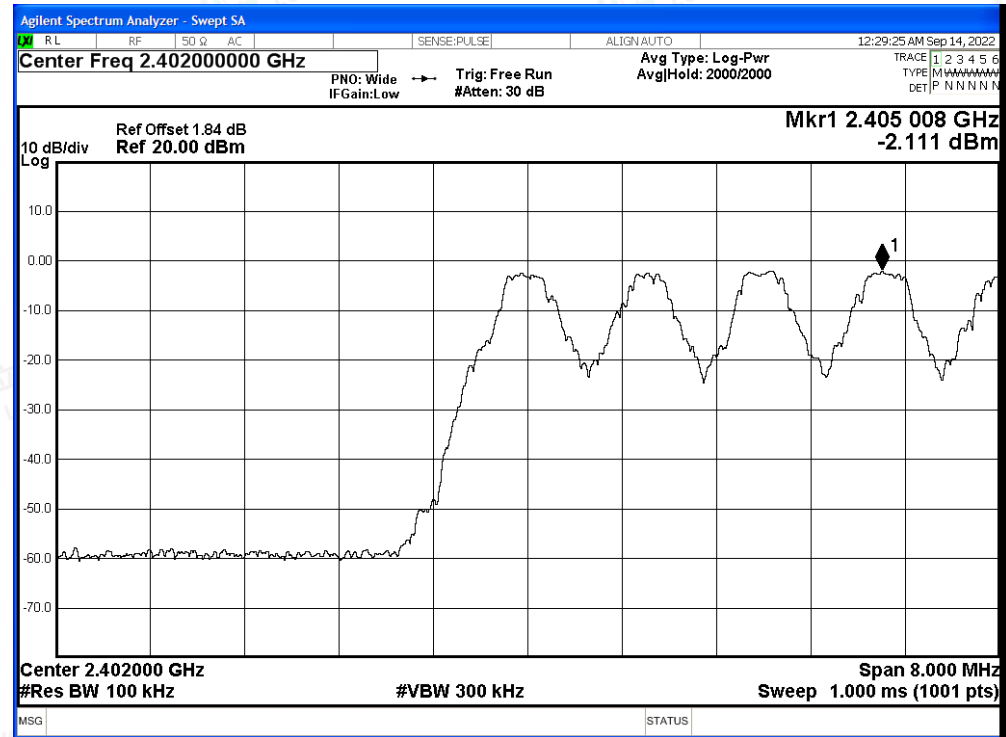


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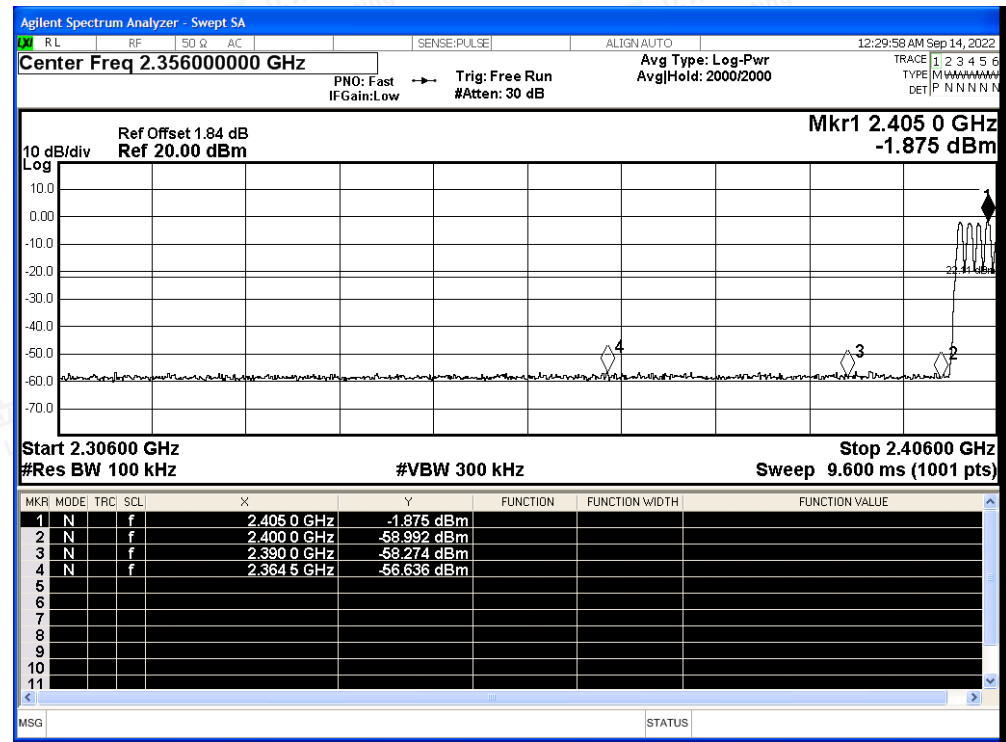


Test Graphs

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

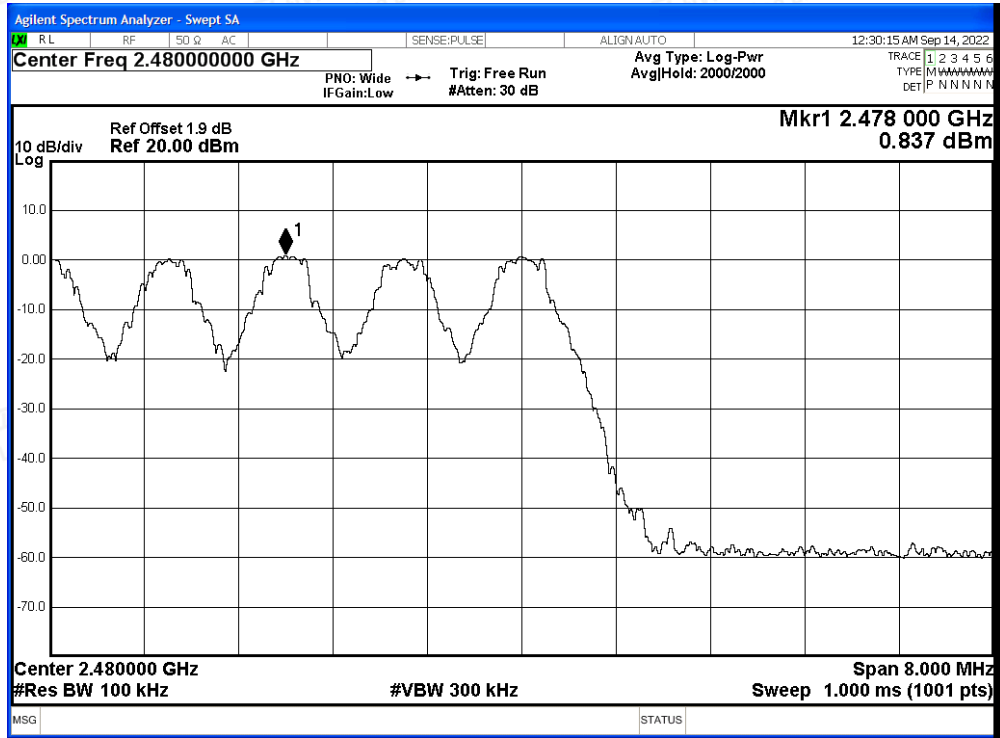


Band Edge(Hopping) NVLT 1-DH5 2402MHz Ant1 Hopping Emission

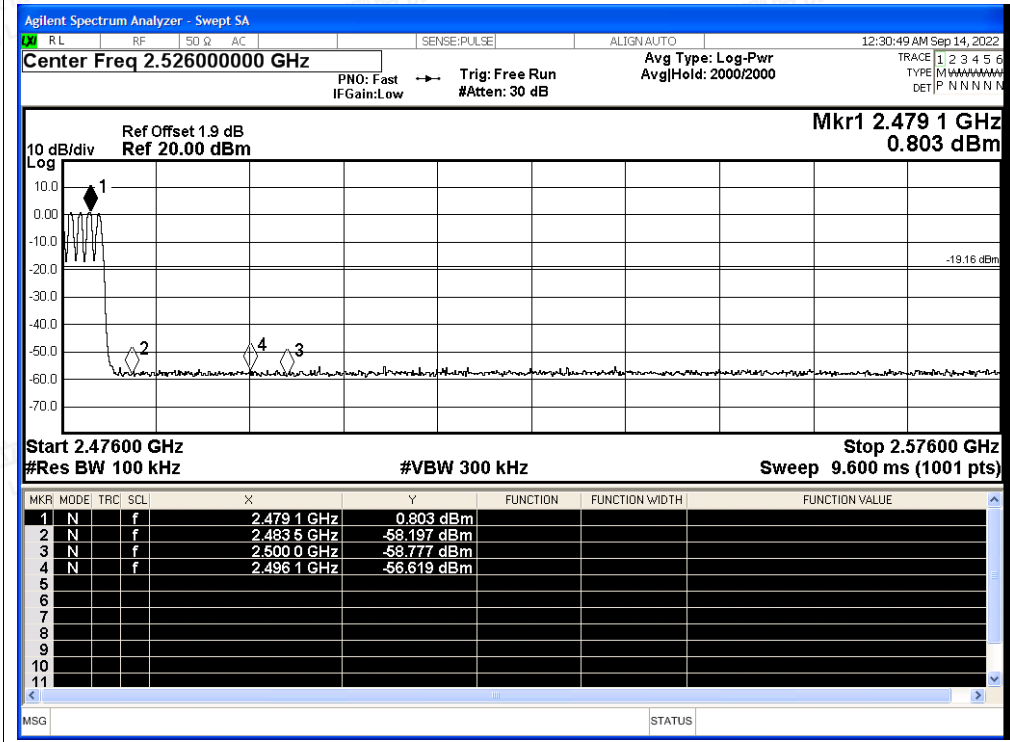




Band Edge(Hopping) NVLT 1-DH5 2480MHz Ant1 Hopping Ref

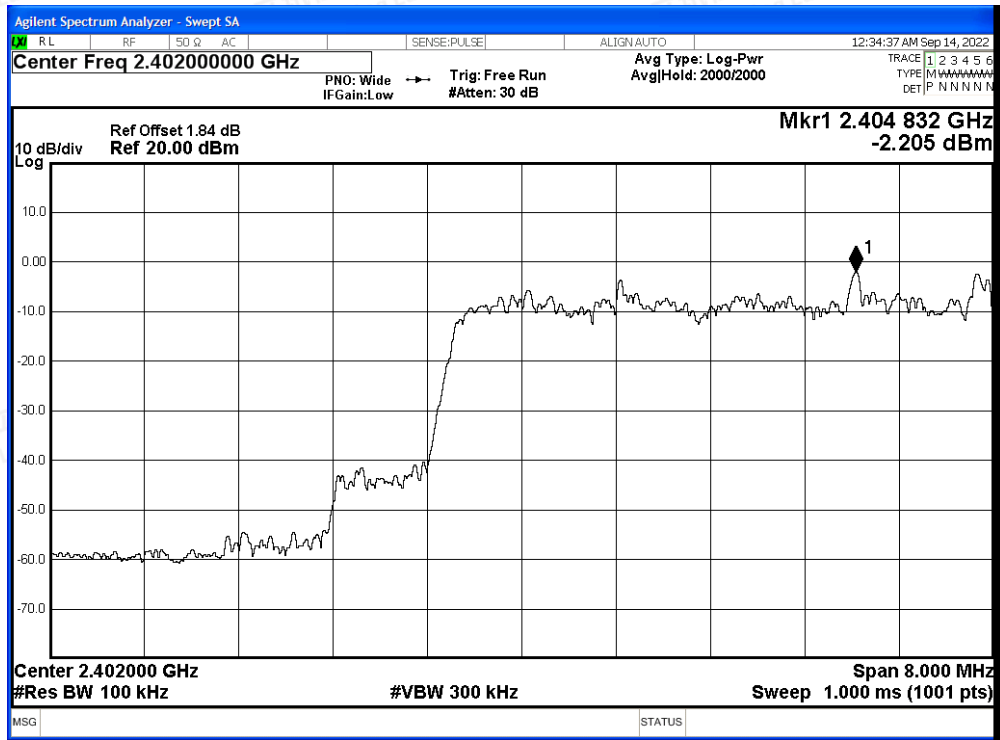


Band Edge(Hopping) NVLT 1-DH5 2480MHz Ant1 Hopping Emission

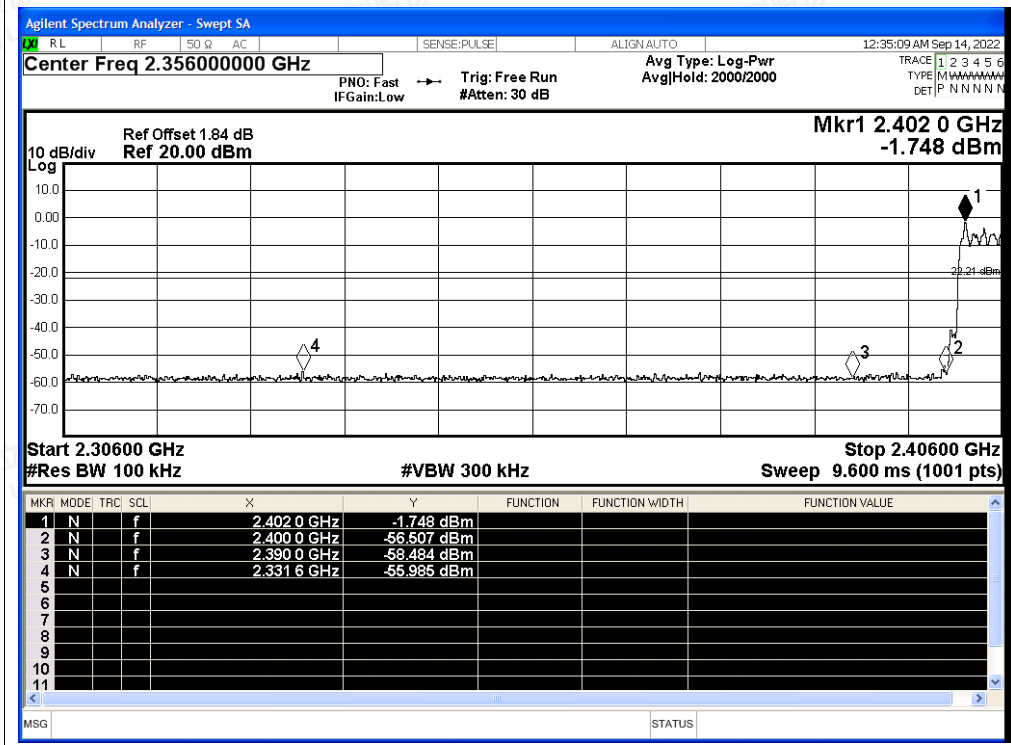




Band Edge(Hopping) NVLT 2-DH5 2402MHz Ant1 Hopping Ref



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

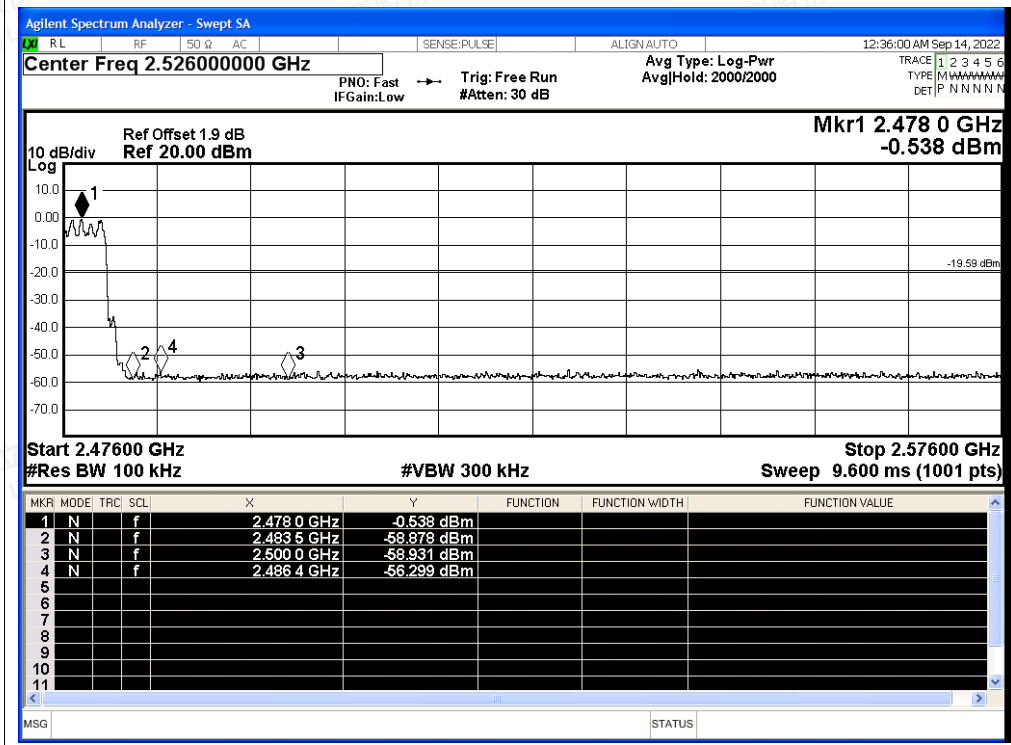




Band Edge(Hopping) NVLT 2-DH5 2480MHz Ant1 Hopping Ref



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





A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVLT	1-DH5	2402	Ant1	-54.22	-20	Pass
NVLT	1-DH5	2441	Ant1	-54.89	-20	Pass
NVLT	1-DH5	2480	Ant1	-55.87	-20	Pass
NVLT	2-DH5	2402	Ant1	-53.63	-20	Pass
NVLT	2-DH5	2441	Ant1	-54.69	-20	Pass
NVLT	2-DH5	2480	Ant1	-56.51	-20	Pass

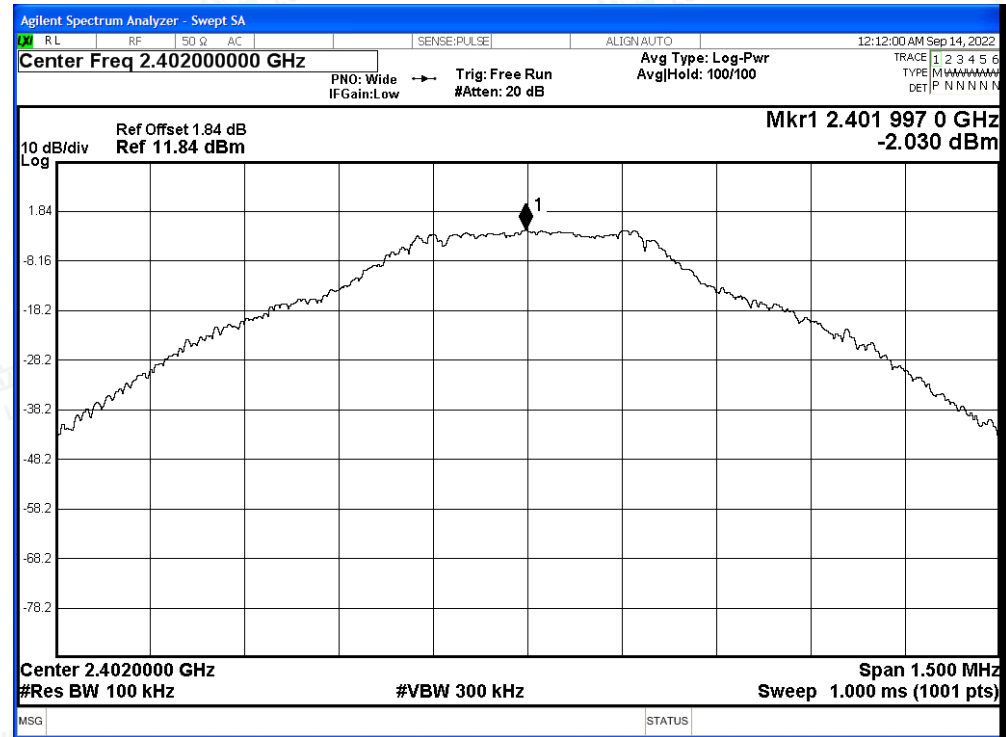


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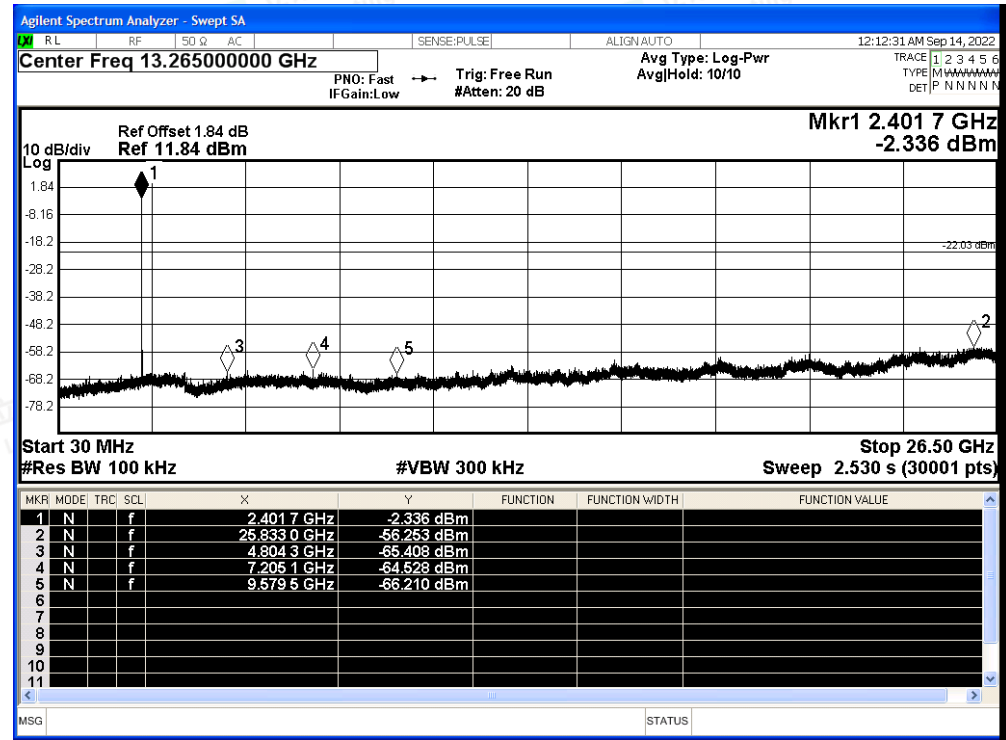


Test Graphs

Tx. Spurious NVLT 1-DH5 2402MHz Ant1 Ref

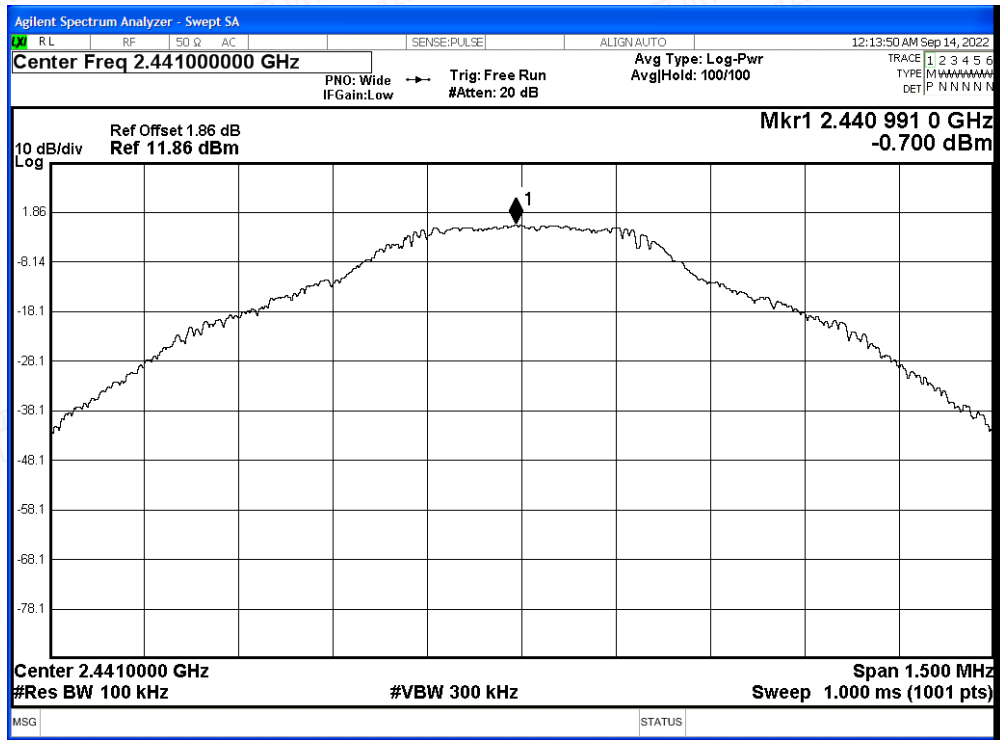


Tx. Spurious NVLT 1-DH5 2402MHz Ant1 Emission

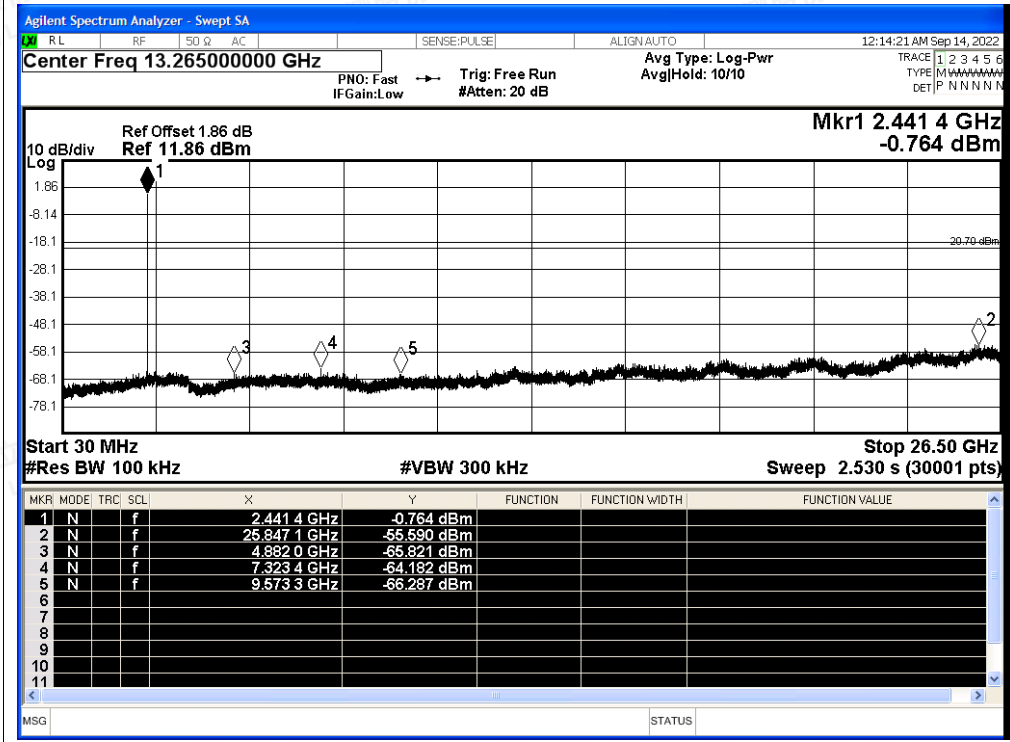




Tx. Spurious NVLT 1-DH5 2441MHz Ant1 Ref

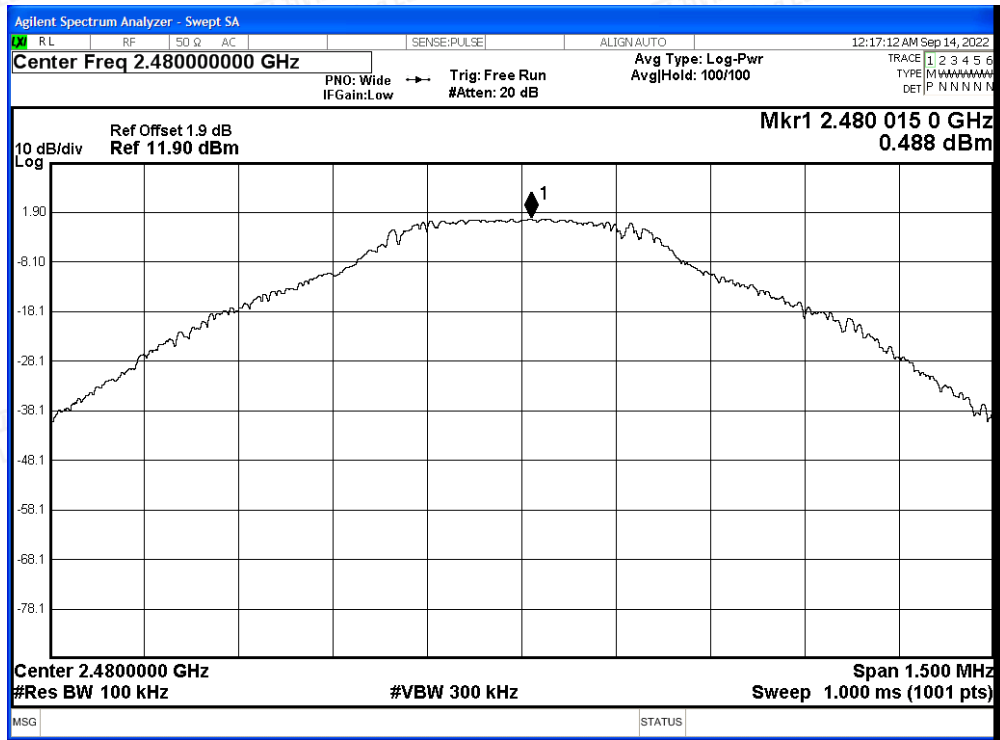


Tx. Spurious NVLT 1-DH5 2441MHz Ant1 Emission

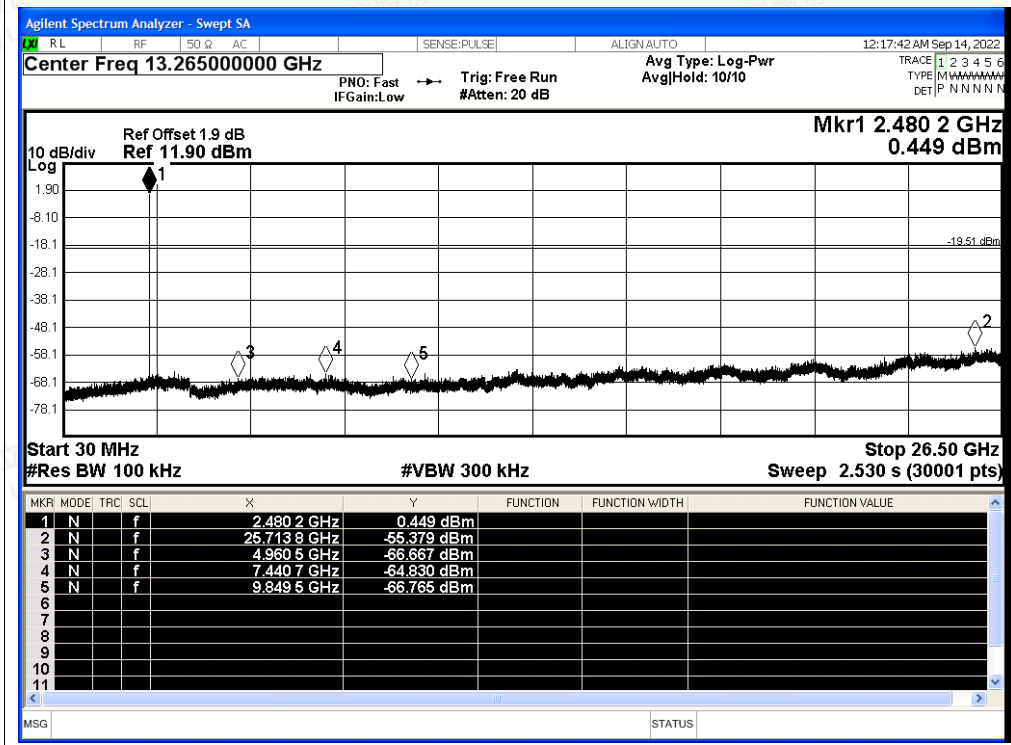




Tx. Spurious NVLT 1-DH5 2480MHz Ant1 Ref

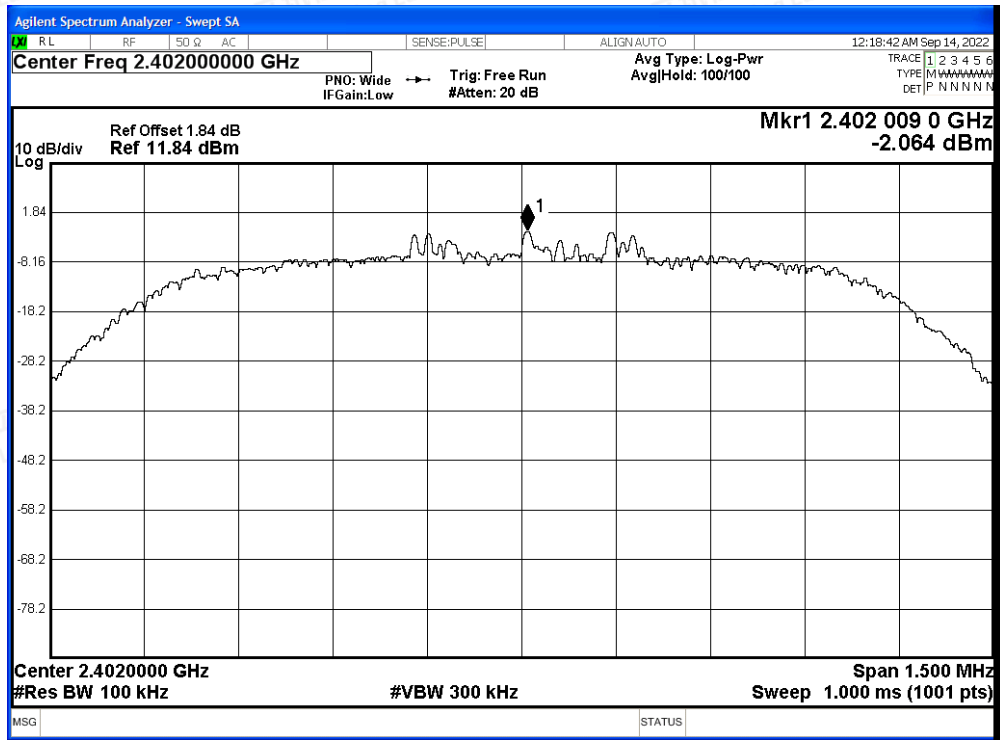


Tx. Spurious NVLT 1-DH5 2480MHz Ant1 Emission

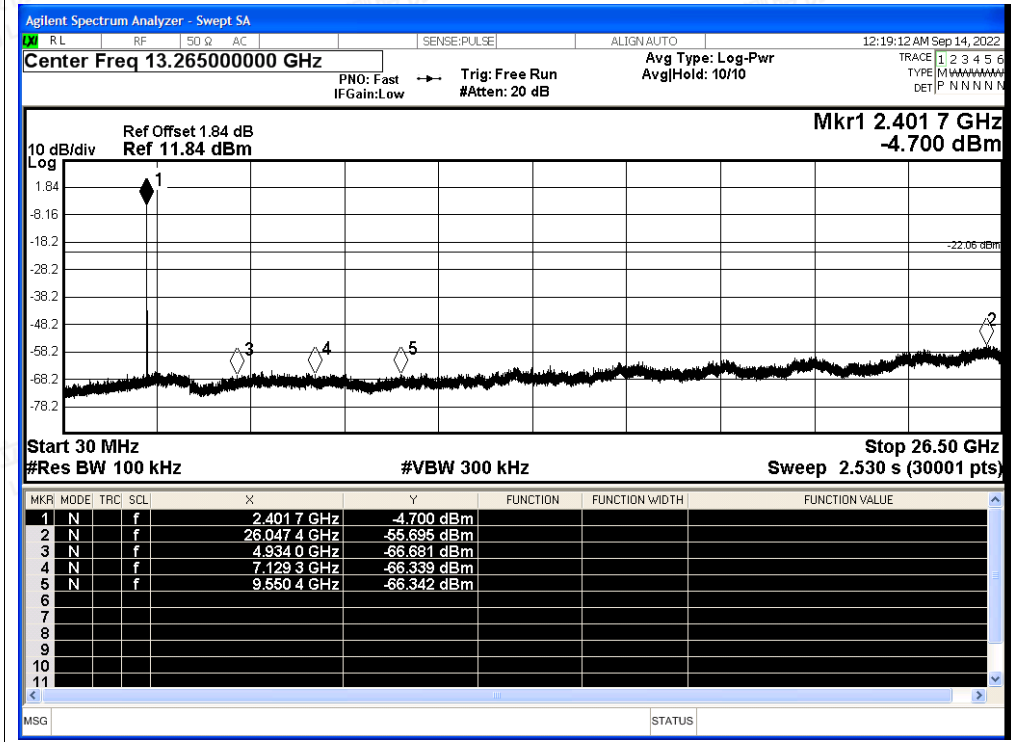




Tx. Spurious NVLT 2-DH5 2402MHz Ant1 Ref

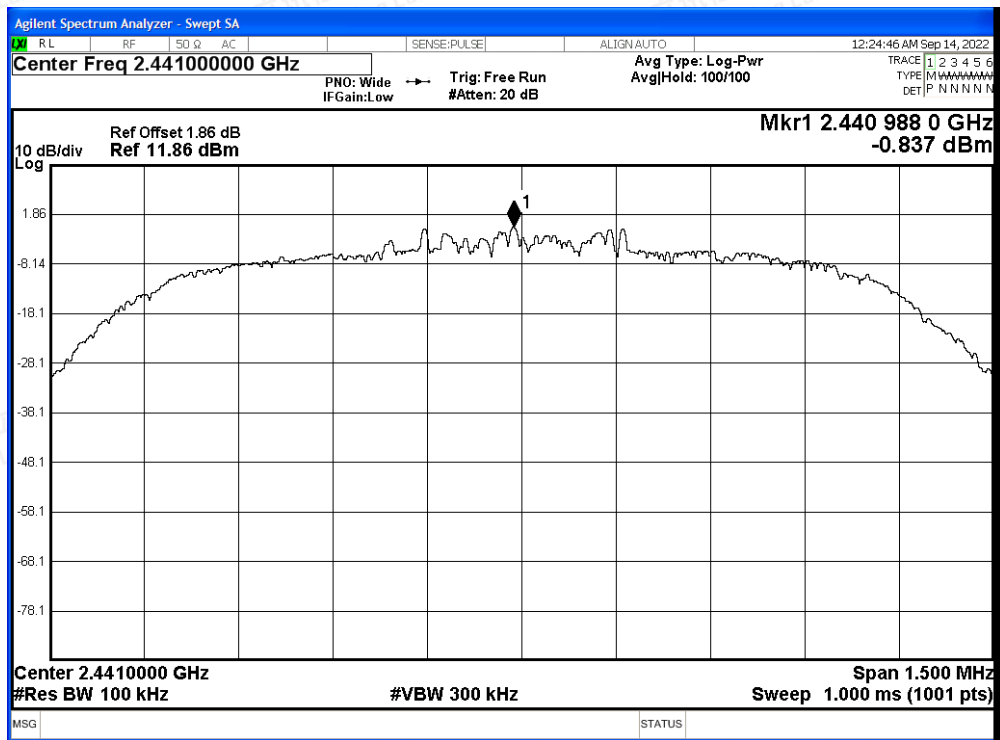


Tx. Spurious NVLT 2-DH5 2402MHz Ant1 Emission

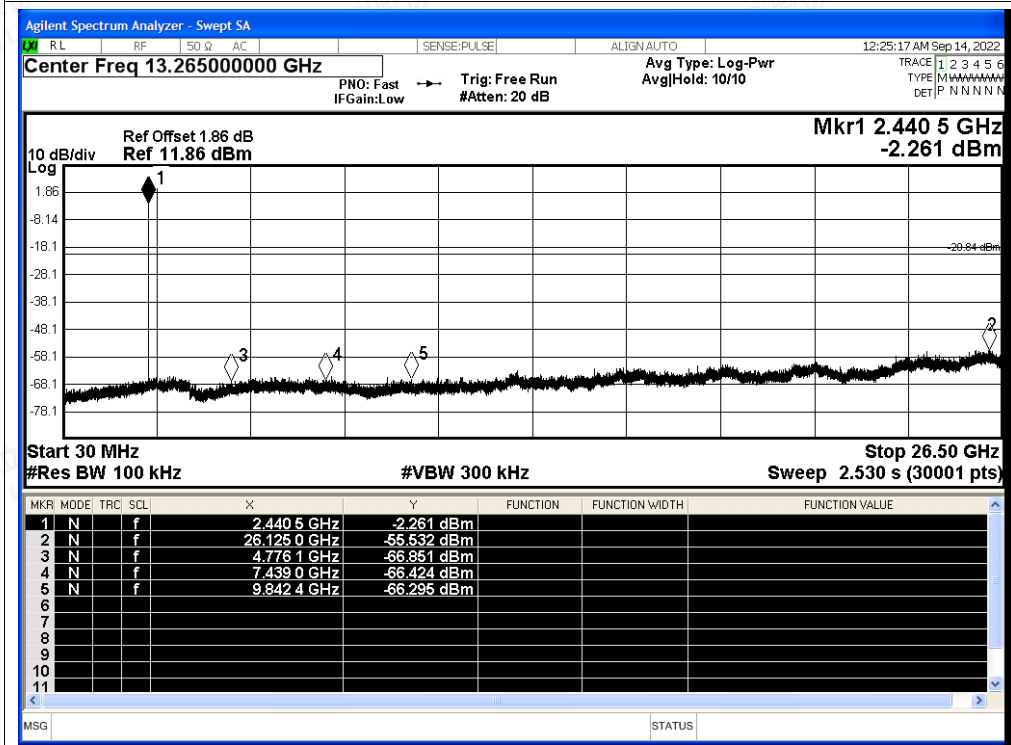




Tx. Spurious NVLT 2-DH5 2441MHz Ant1 Ref

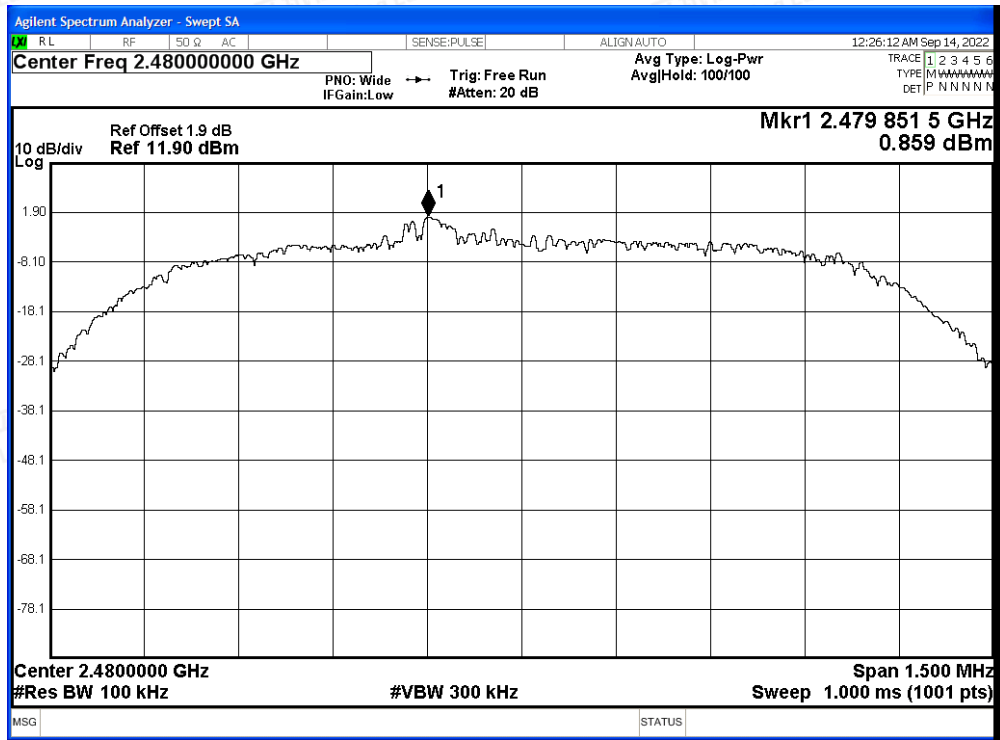


Tx. Spurious NVLT 2-DH5 2441MHz Ant1 Emission

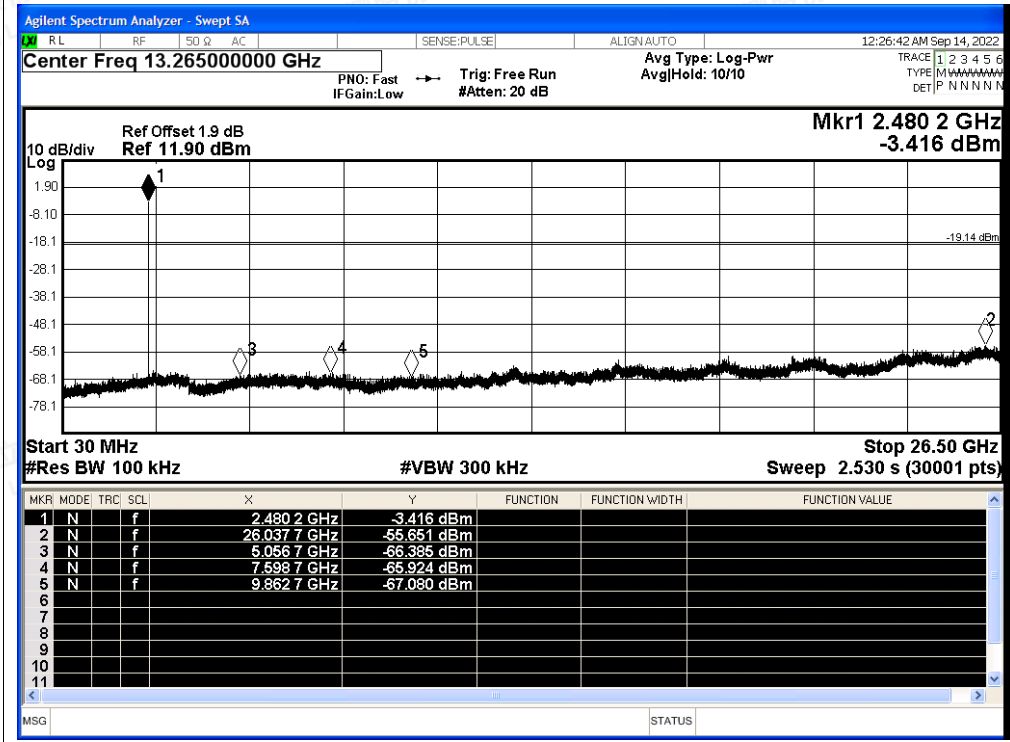




Tx. Spurious NVLT 2-DH5 2480MHz Ant1 Ref



Tx. Spurious NVLT 2-DH5 2480MHz Ant1 Emission





A.8 Restrict Band

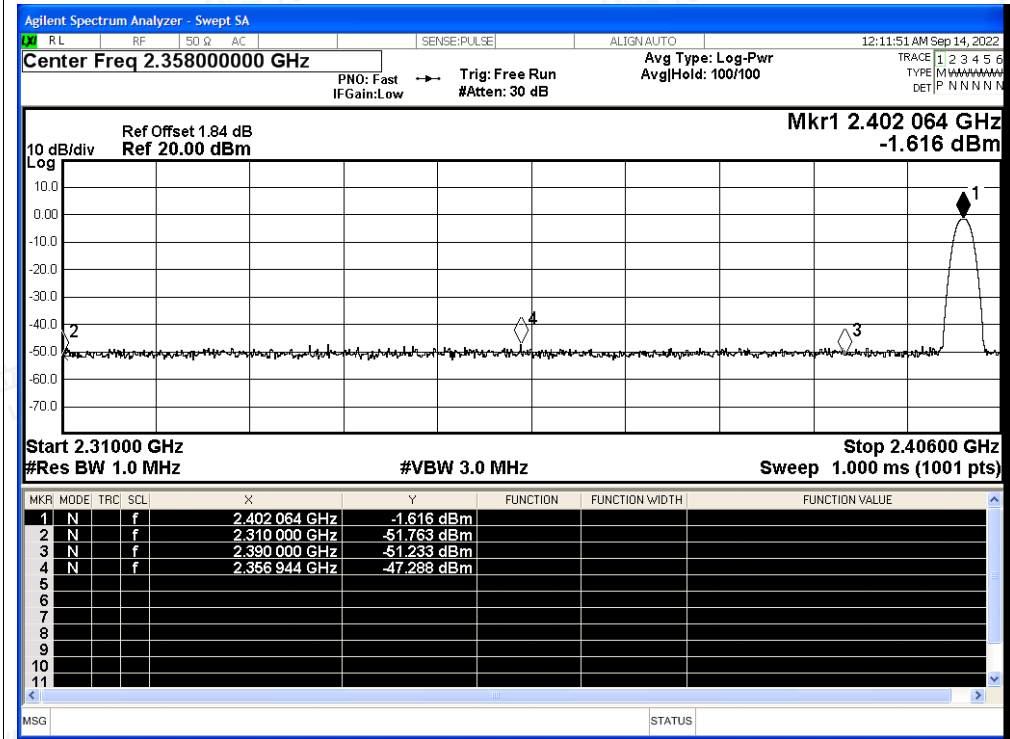
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVLT	1-DH5	2402	Ant1	No-Hopping	2310	-51.76	2	45.5	Peak	74	Pass
NVLT	1-DH5	2402	Ant1	No-Hopping	2310	-60.73	2	36.53	Average	54	Pass
NVLT	1-DH5	2402	Ant1	No-Hopping	2356.944	-47.29	2	49.97	Peak	74	Pass
NVLT	1-DH5	2402	Ant1	No-Hopping	2371.248	-60.2	2	37.06	Average	54	Pass
NVLT	1-DH5	2402	Ant1	No-Hopping	2390	-51.23	2	46.03	Peak	74	Pass
NVLT	1-DH5	2402	Ant1	No-Hopping	2390	-60.32	2	36.94	Average	54	Pass
NVLT	1-DH5	2480	Ant1	No-Hopping	2483.5	-51.16	2	46.1	Peak	74	Pass
NVLT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.83	2	37.43	Average	54	Pass
NVLT	1-DH5	2480	Ant1	No-Hopping	2491.264	-47.66	2	49.6	Peak	74	Pass
NVLT	1-DH5	2480	Ant1	No-Hopping	2486.08	-59.63	2	37.63	Average	54	Pass
NVLT	1-DH5	2480	Ant1	No-Hopping	2500	-51.36	2	45.9	Peak	74	Pass
NVLT	1-DH5	2480	Ant1	No-Hopping	2500	-59.86	2	37.4	Average	54	Pass
NVLT	2-DH5	2402	Ant1	No-Hopping	2310	-50.24	2	47.02	Peak	74	Pass
NVLT	2-DH5	2402	Ant1	No-Hopping	2310	-60.71	2	36.55	Average	54	Pass
NVLT	2-DH5	2402	Ant1	No-Hopping	2377.968	-47.71	2	49.55	Peak	74	Pass
NVLT	2-DH5	2402	Ant1	No-Hopping	2383.152	-60.23	2	37.03	Average	54	Pass
NVLT	2-DH5	2402	Ant1	No-Hopping	2390	-50.93	2	46.33	Peak	74	Pass
NVLT	2-DH5	2402	Ant1	No-Hopping	2390	-60.38	2	36.88	Average	54	Pass
NVLT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.19	2	47.07	Peak	74	Pass
NVLT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.48	2	37.78	Average	54	Pass
NVLT	2-DH5	2480	Ant1	No-Hopping	2486.248	-47.36	2	49.9	Peak	74	Pass
NVLT	2-DH5	2480	Ant1	No-Hopping	2483.704	-59.38	2	37.88	Average	54	Pass
NVLT	2-DH5	2480	Ant1	No-Hopping	2500	-50.29	2	46.97	Peak	74	Pass
NVLT	2-DH5	2480	Ant1	No-Hopping	2500	-60.06	2	37.2	Average	54	Pass



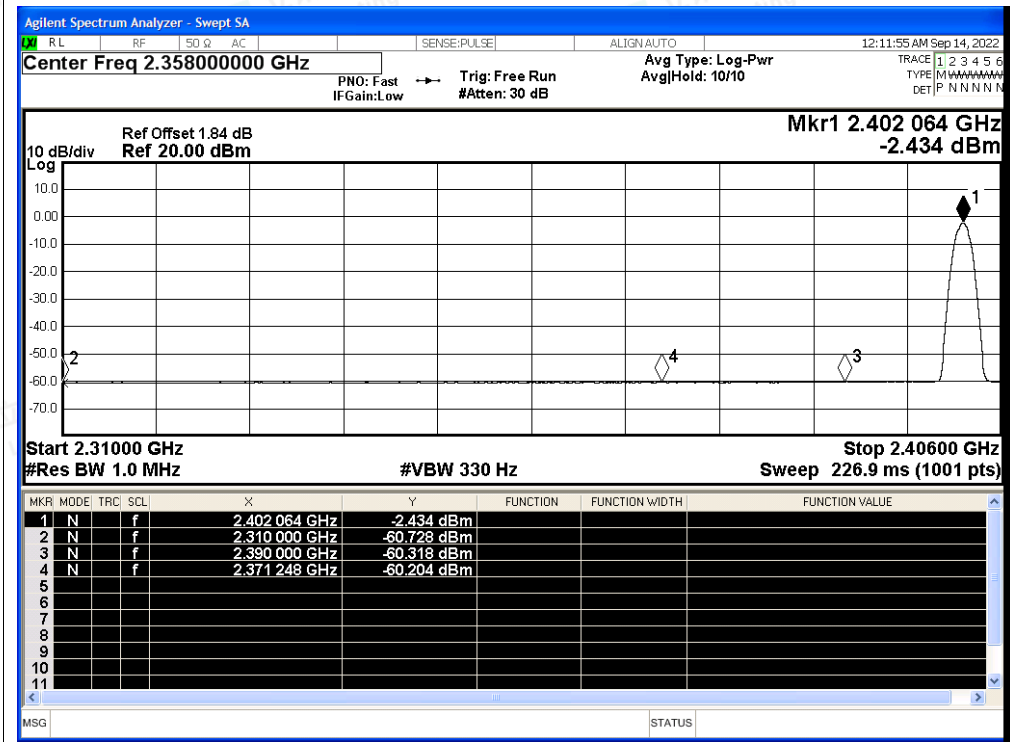


Test Graphs

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

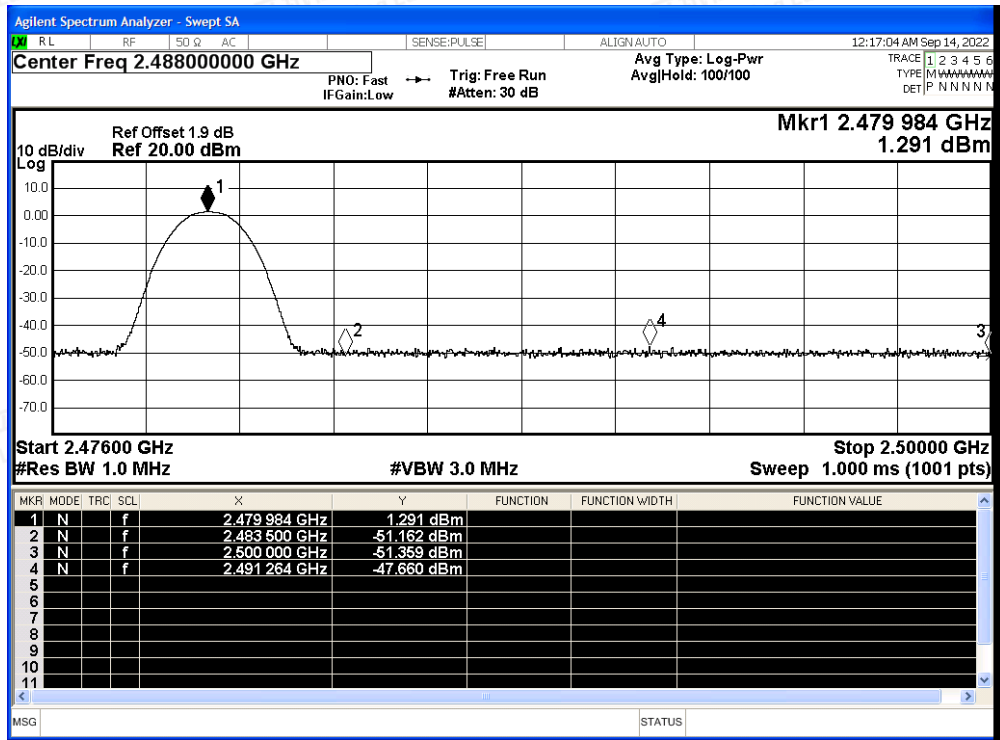


Restrict Band NVLT 1-DH5 2402MHz Ant1 No-Hopping Average

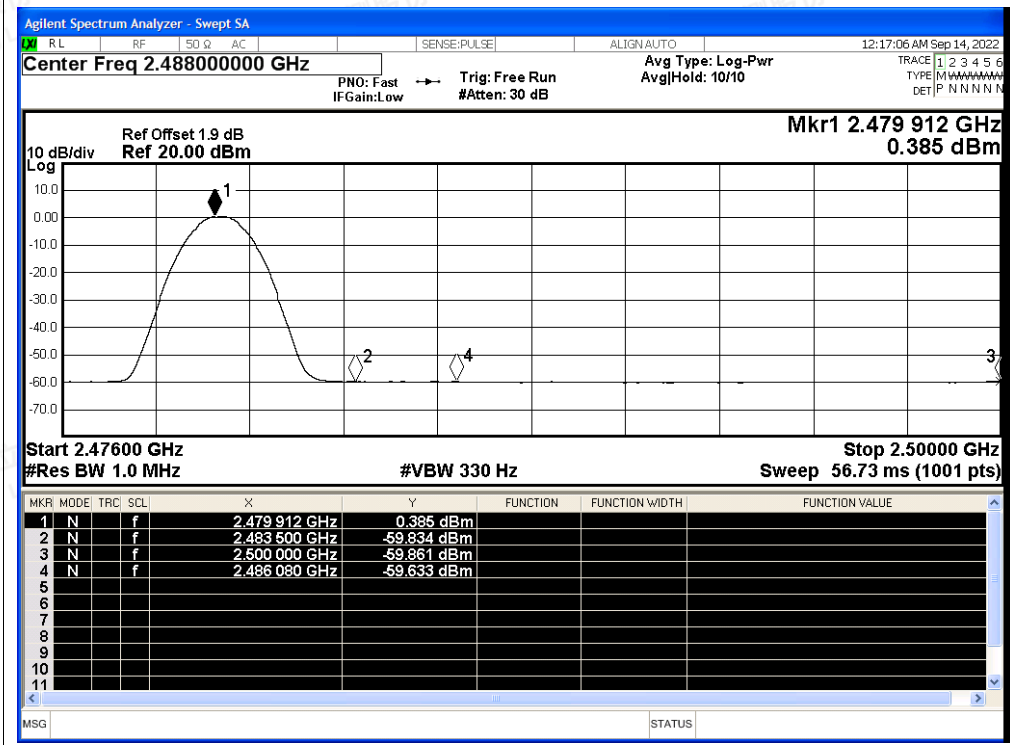




Restrict Band NVLT 1-DH5 2480MHz Ant1 No-Hopping Peak

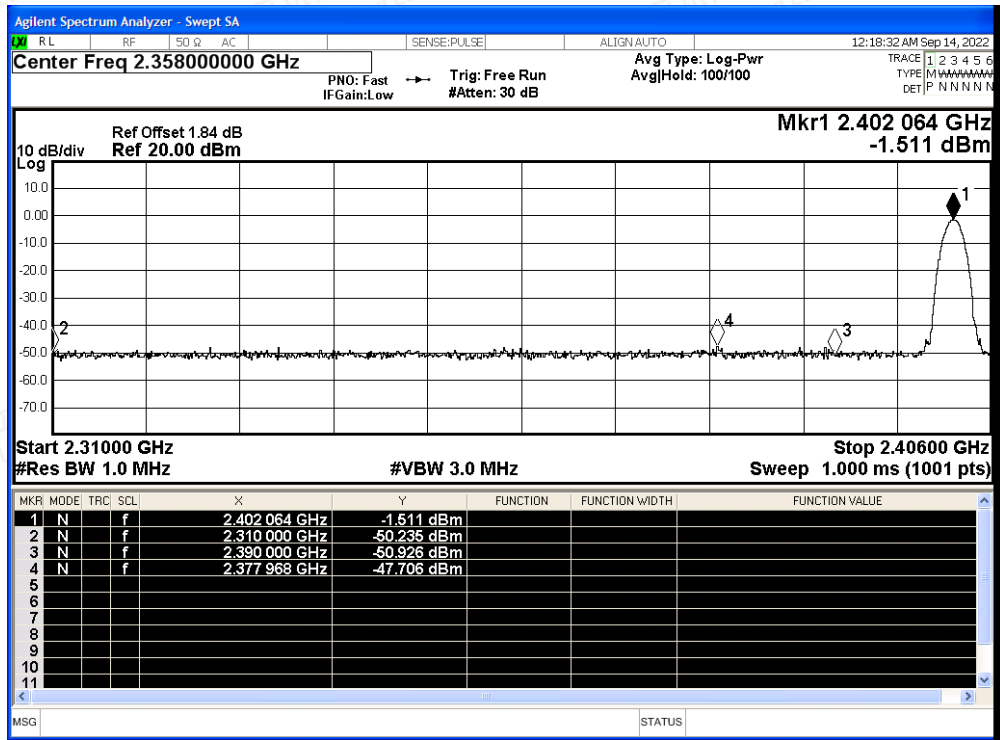


Restrict Band NVLT 1-DH5 2480MHz Ant1 No-Hopping Average

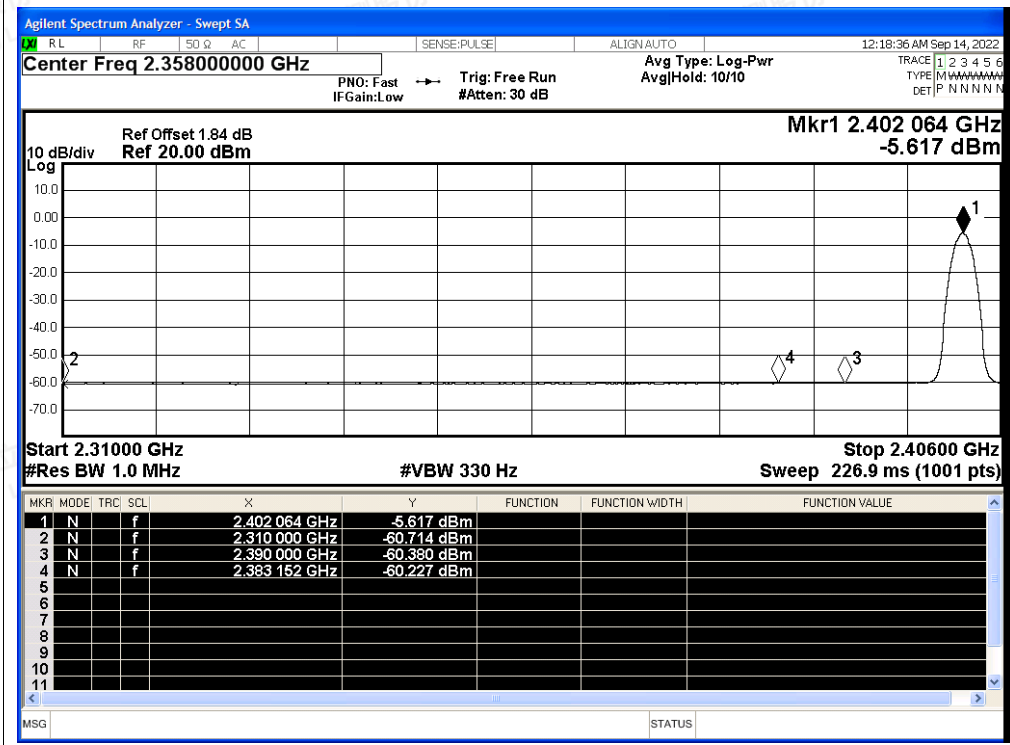




Restrict Band NVLT 2-DH5 2402MHz Ant1 No-Hopping Peak

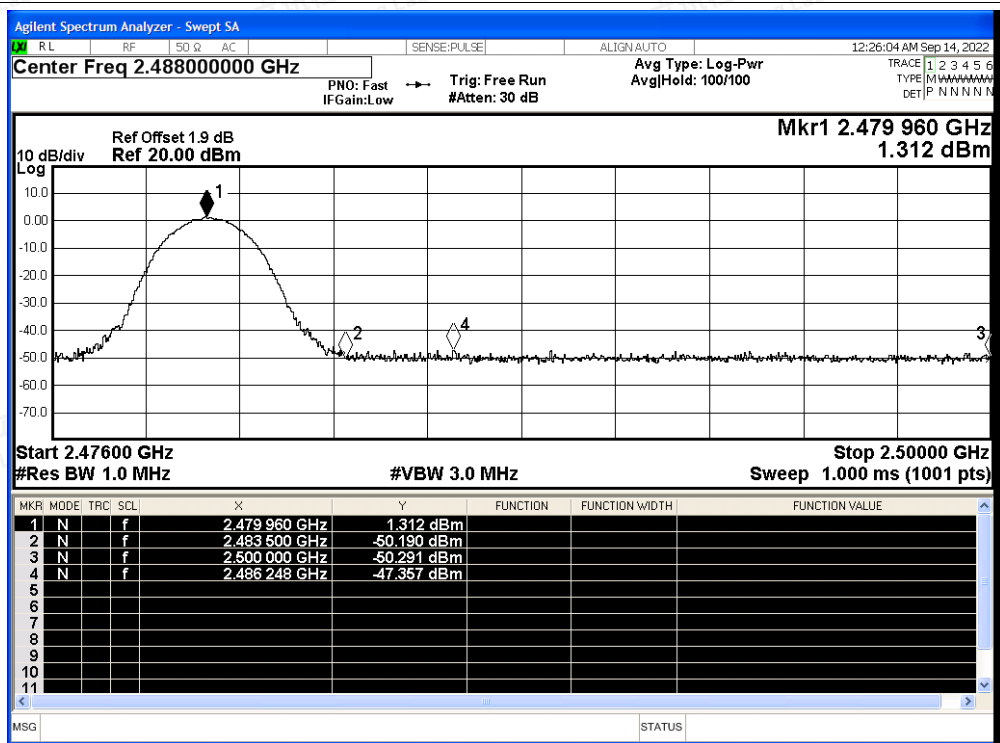


Restrict Band NVLT 2-DH5 2402MHz Ant1 No-Hopping Average





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



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

