

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Party Speaker

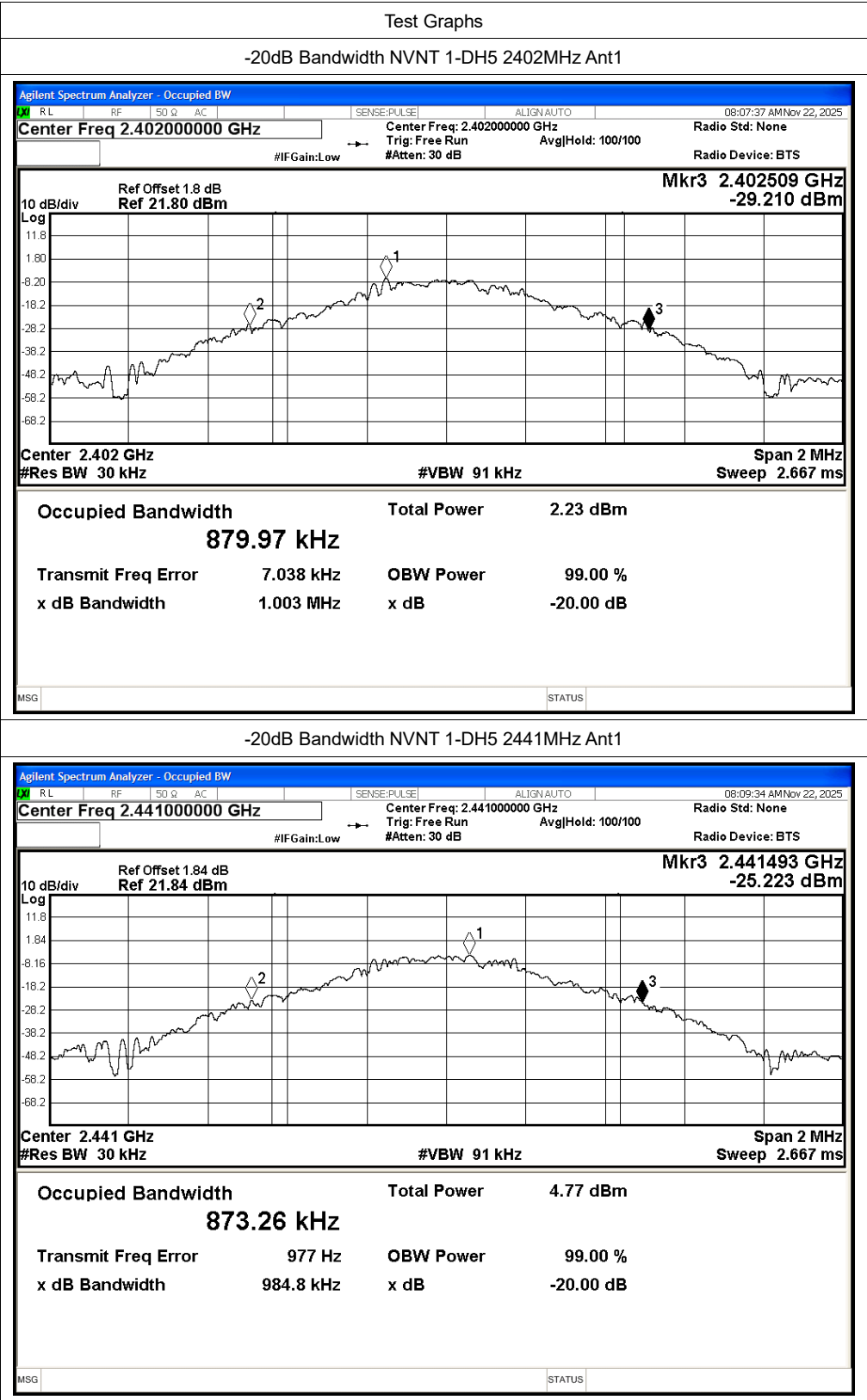
Test Model: Thunder 500

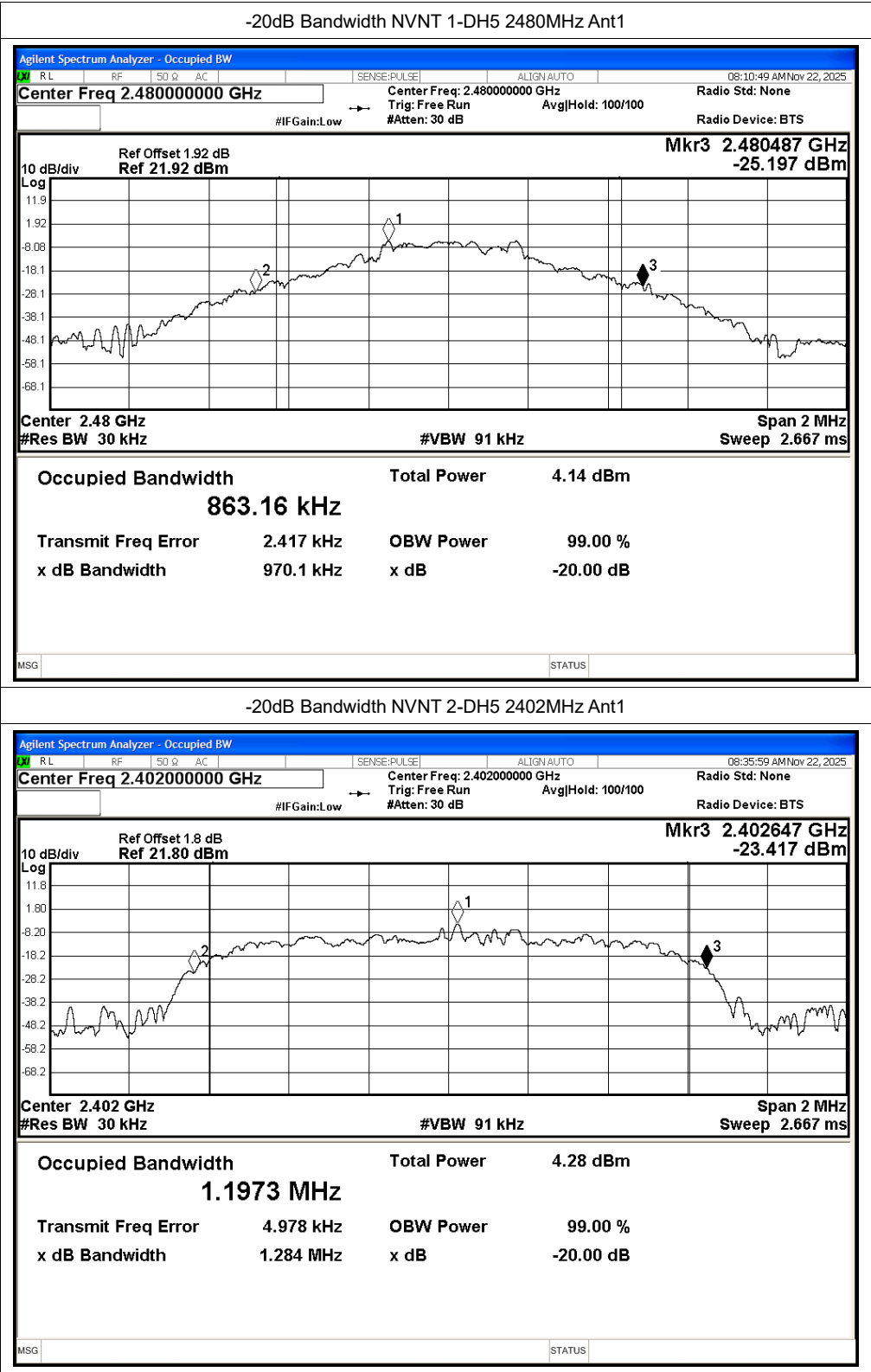
Environmental Conditions

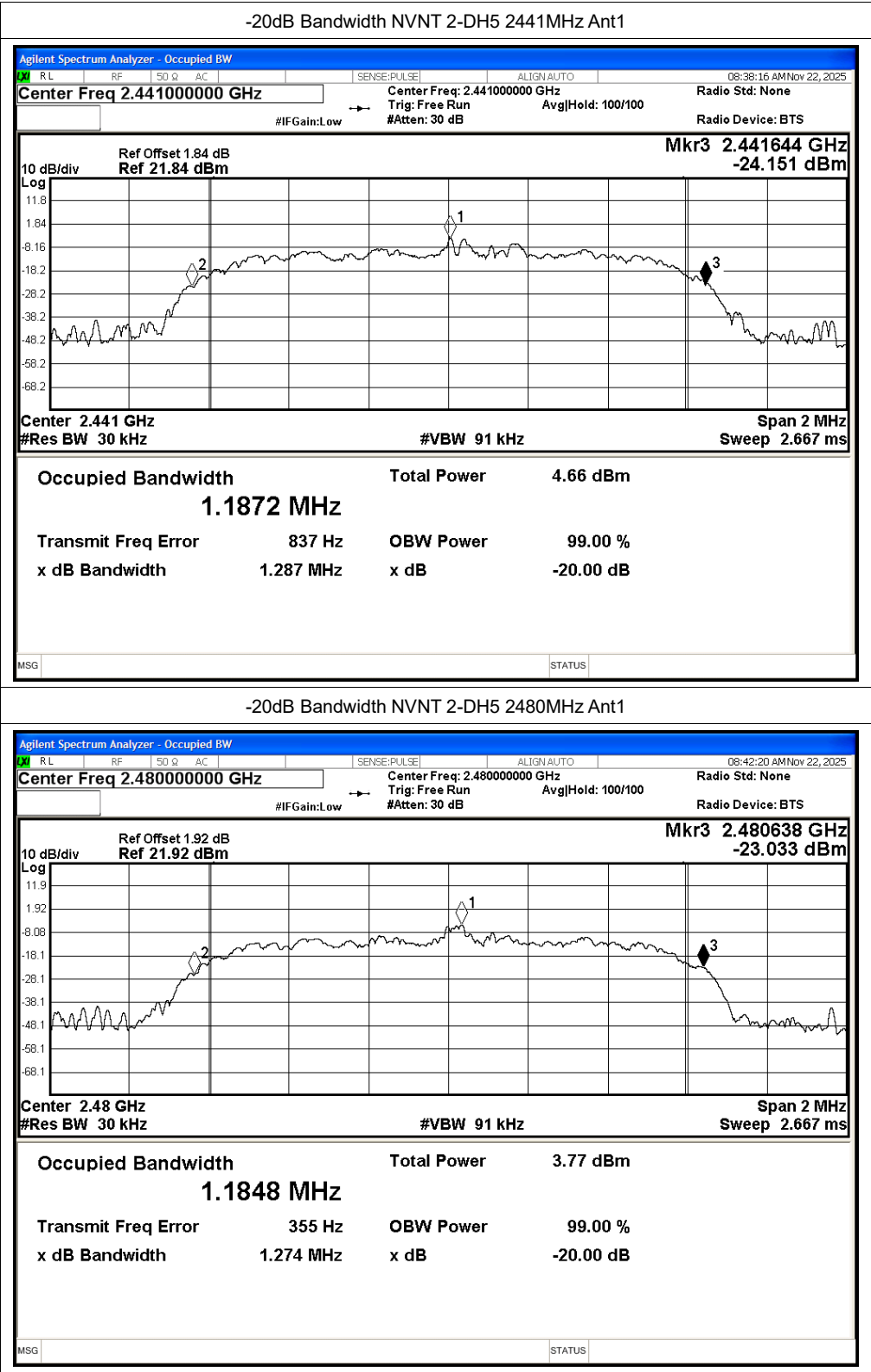
Temperature:	24.1°C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Yan Chen
Supervised by:	Fengliu Tang

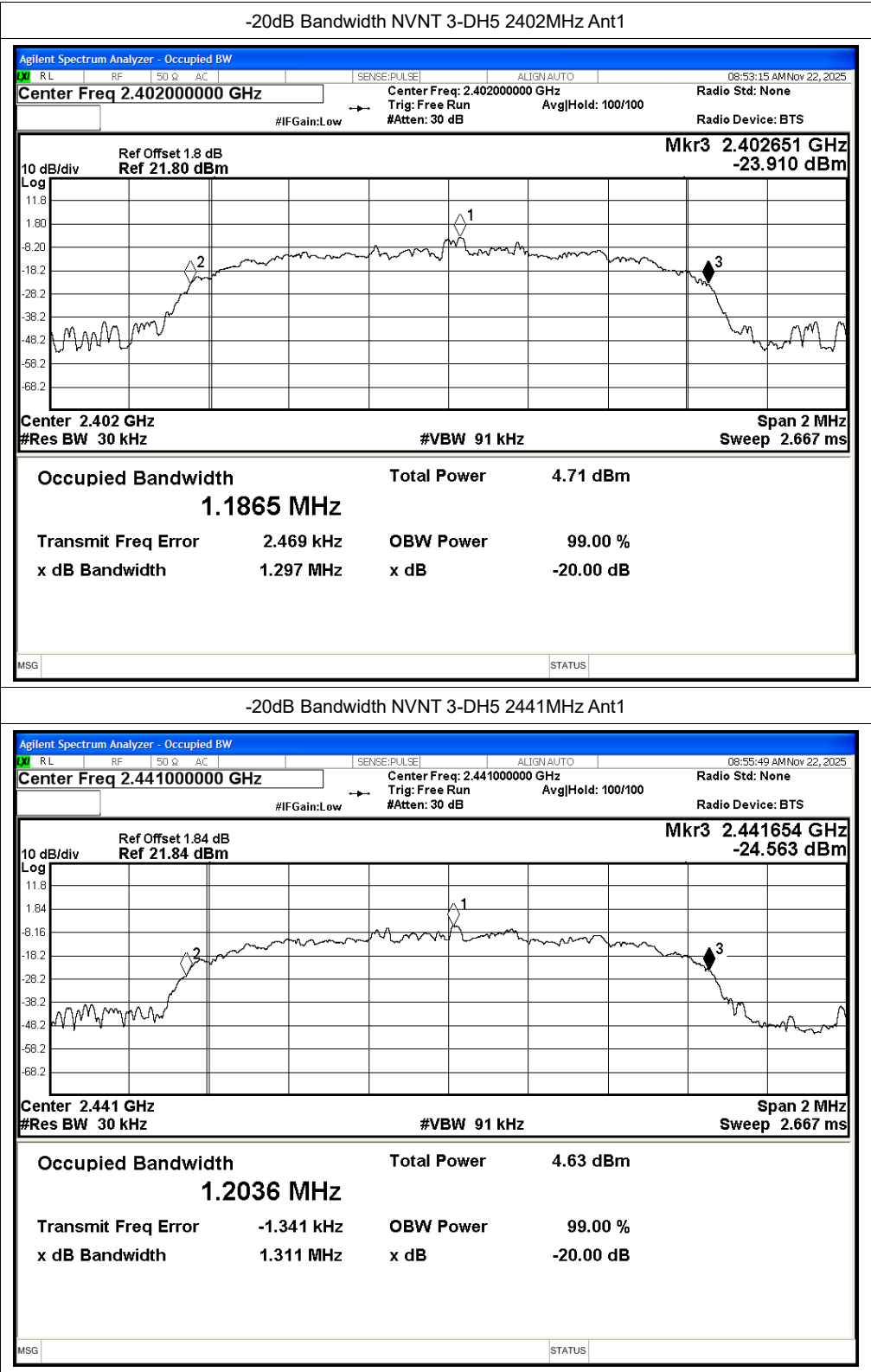
A.1 -20dB Bandwidth

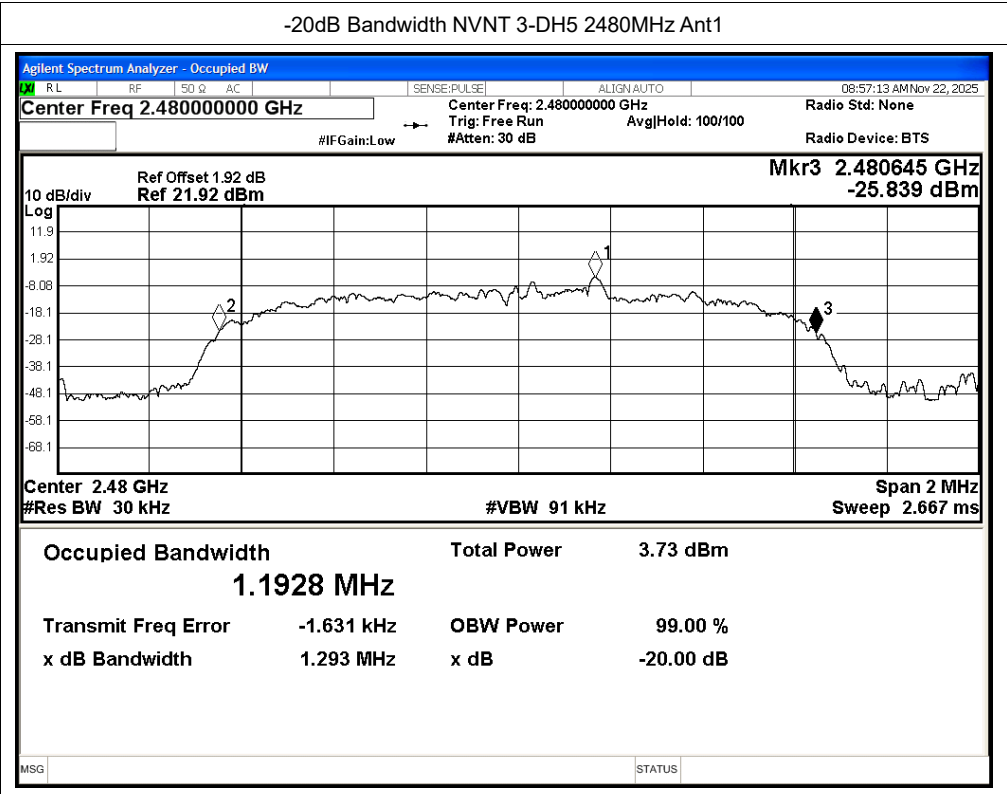
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.003	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.985	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.97	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.284	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.287	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.274	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.297	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.311	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.293	N/A	Pass





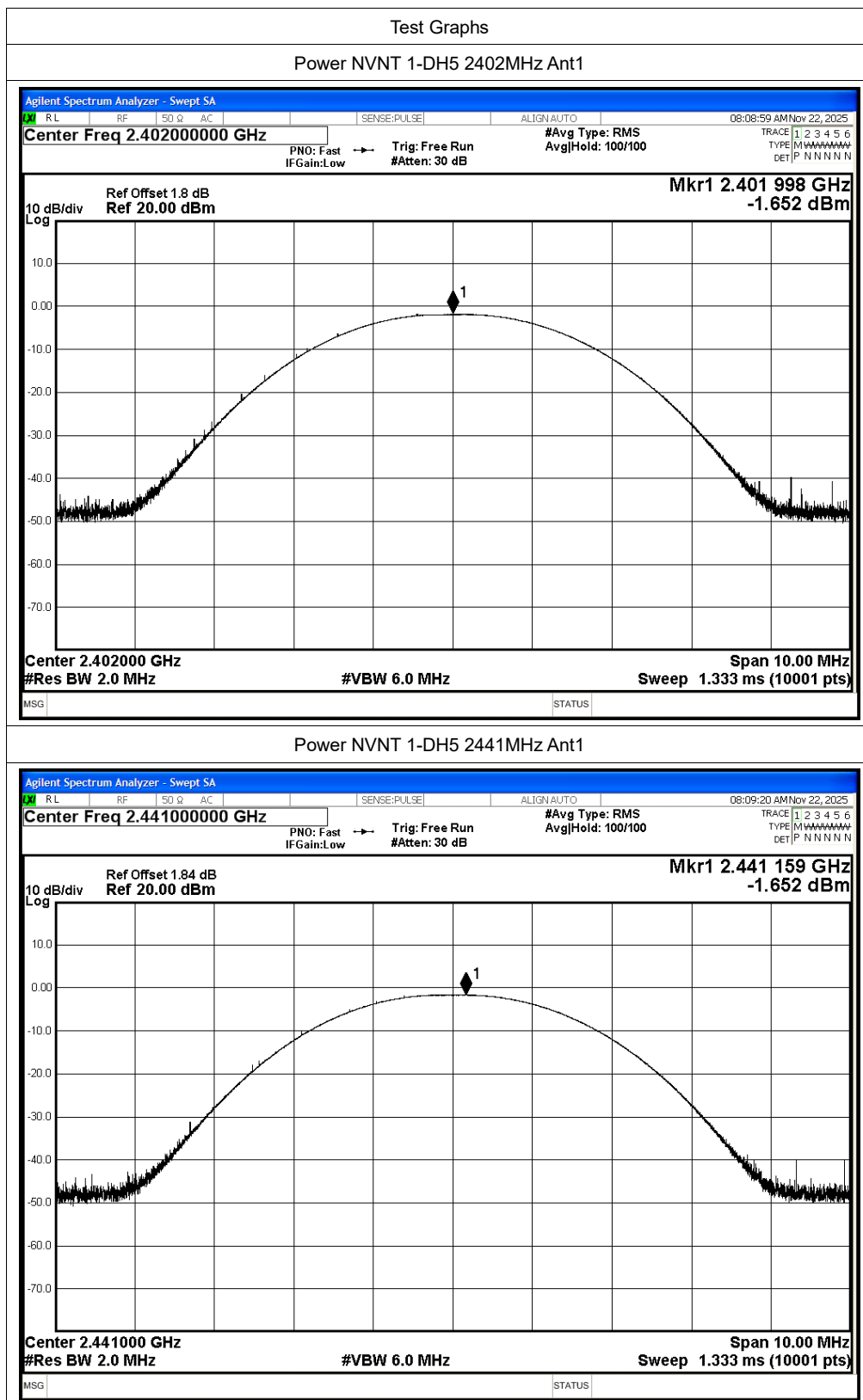


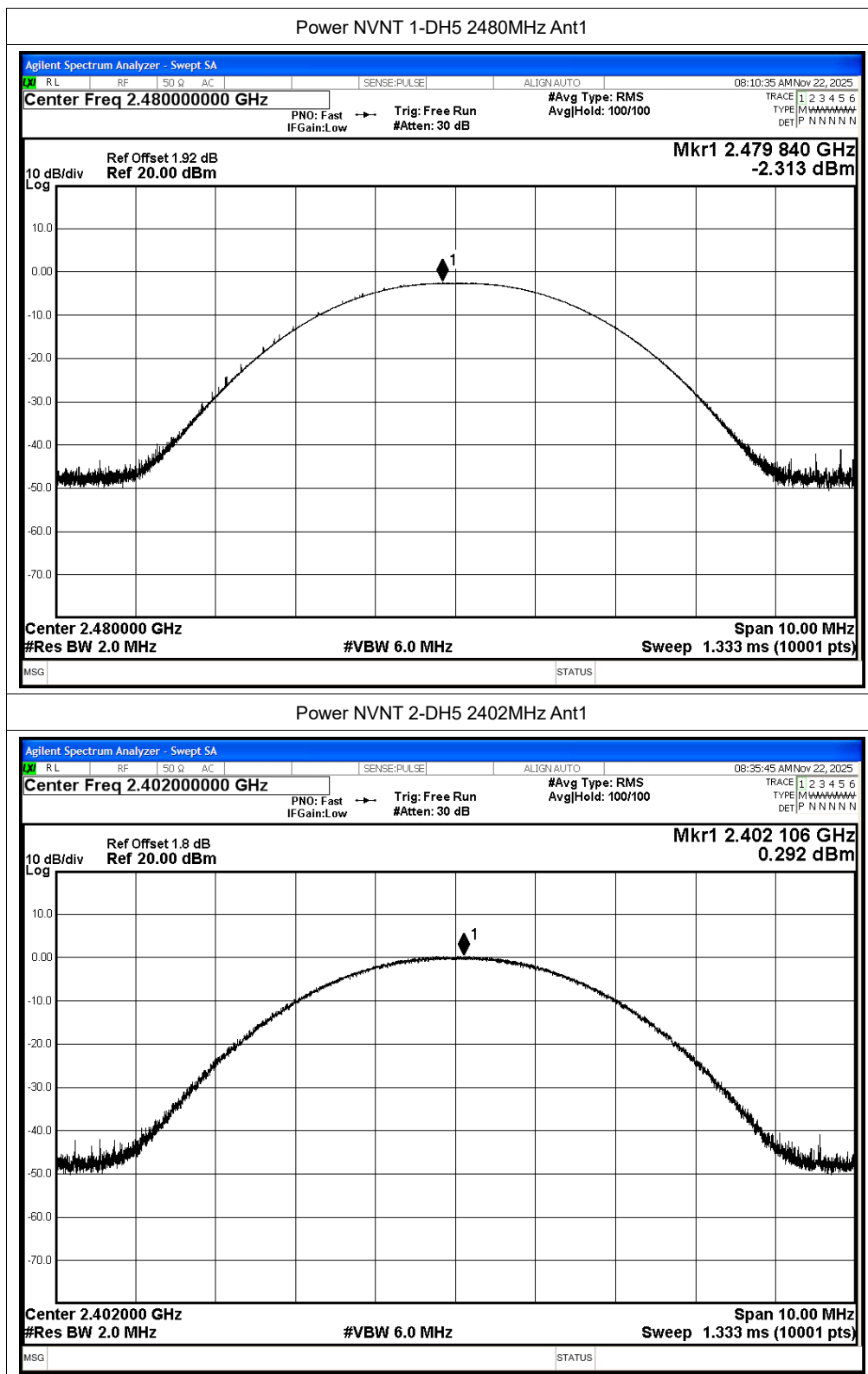


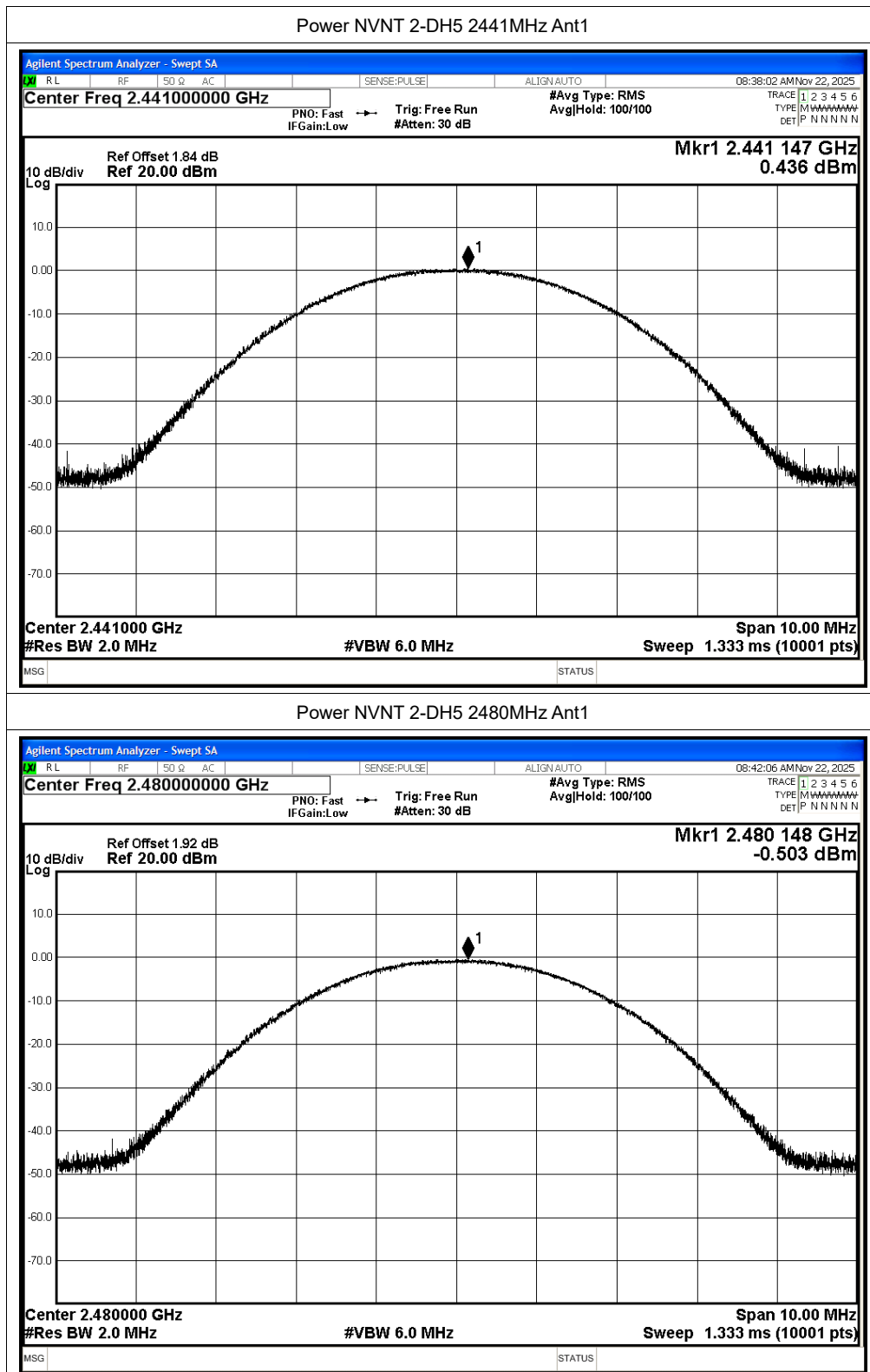


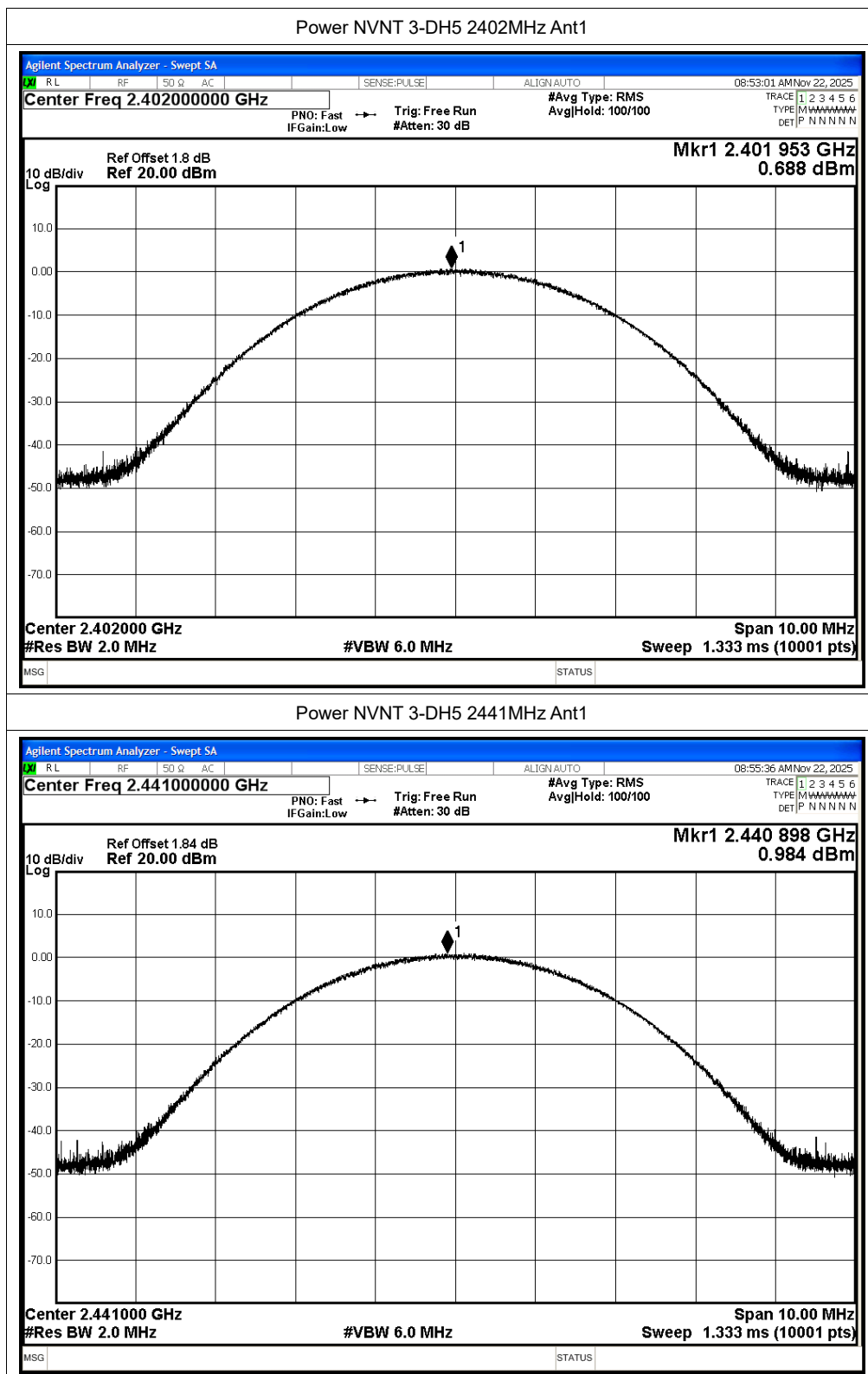
A.2 Maximum Peak Conducted Output Power

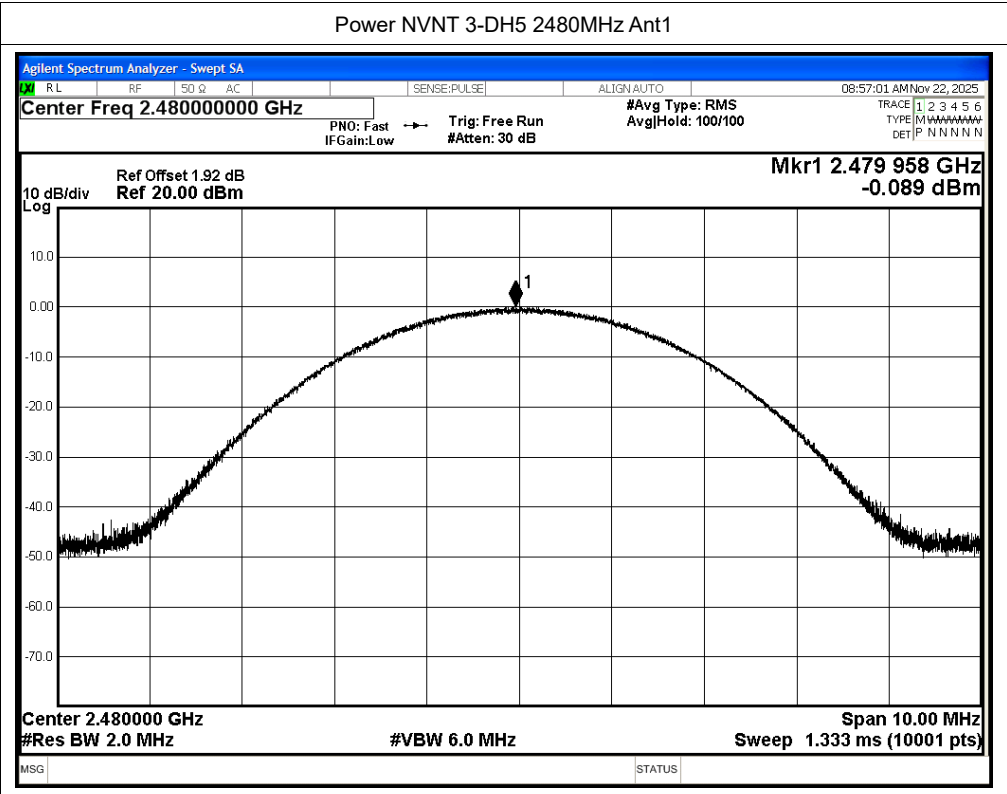
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-1.65	21	Pass
NVNT	1-DH5	2441	Ant1	-1.65	21	Pass
NVNT	1-DH5	2480	Ant1	-2.31	21	Pass
NVNT	2-DH5	2402	Ant1	0.29	21	Pass
NVNT	2-DH5	2441	Ant1	0.44	21	Pass
NVNT	2-DH5	2480	Ant1	-0.5	21	Pass
NVNT	3-DH5	2402	Ant1	0.69	21	Pass
NVNT	3-DH5	2441	Ant1	0.98	21	Pass
NVNT	3-DH5	2480	Ant1	-0.09	21	Pass





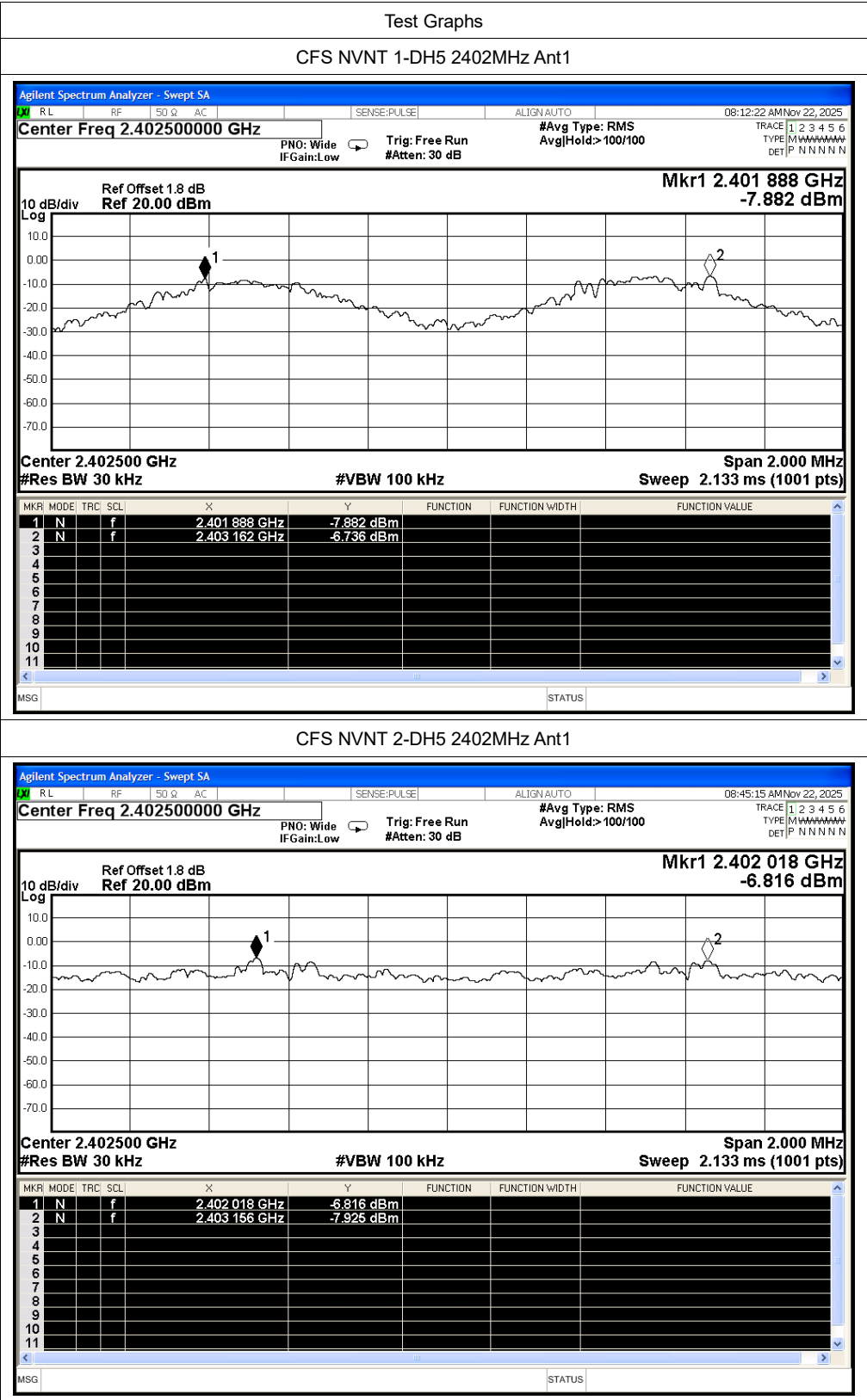


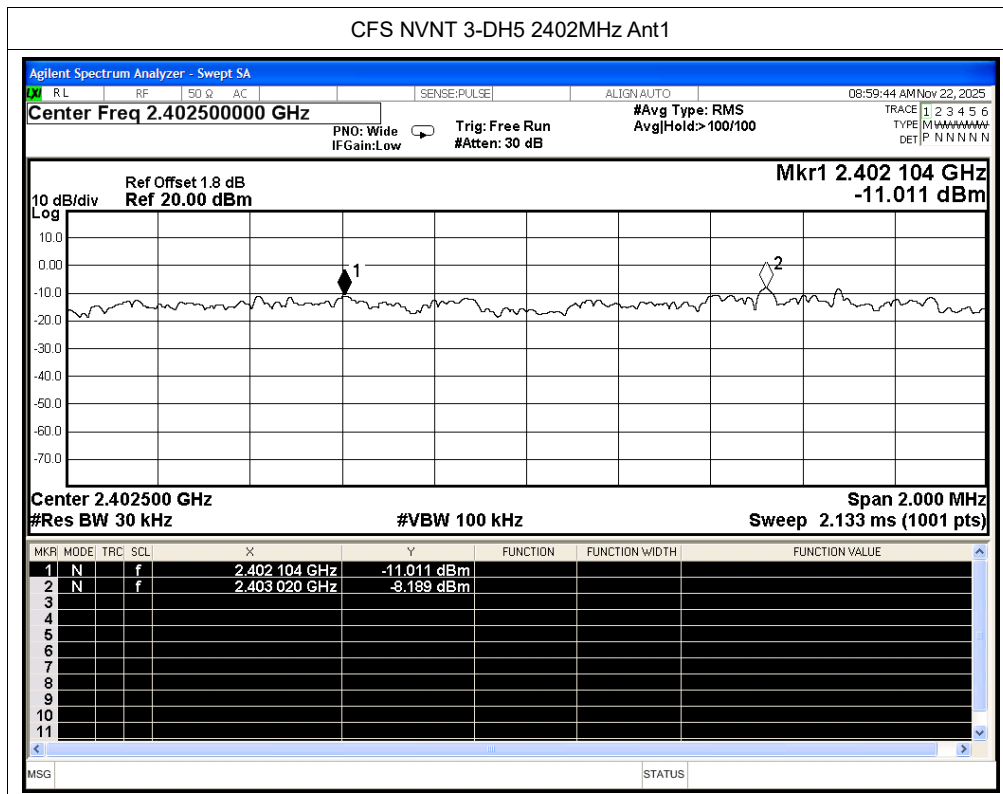




A.3 Carrier Frequencies Separation

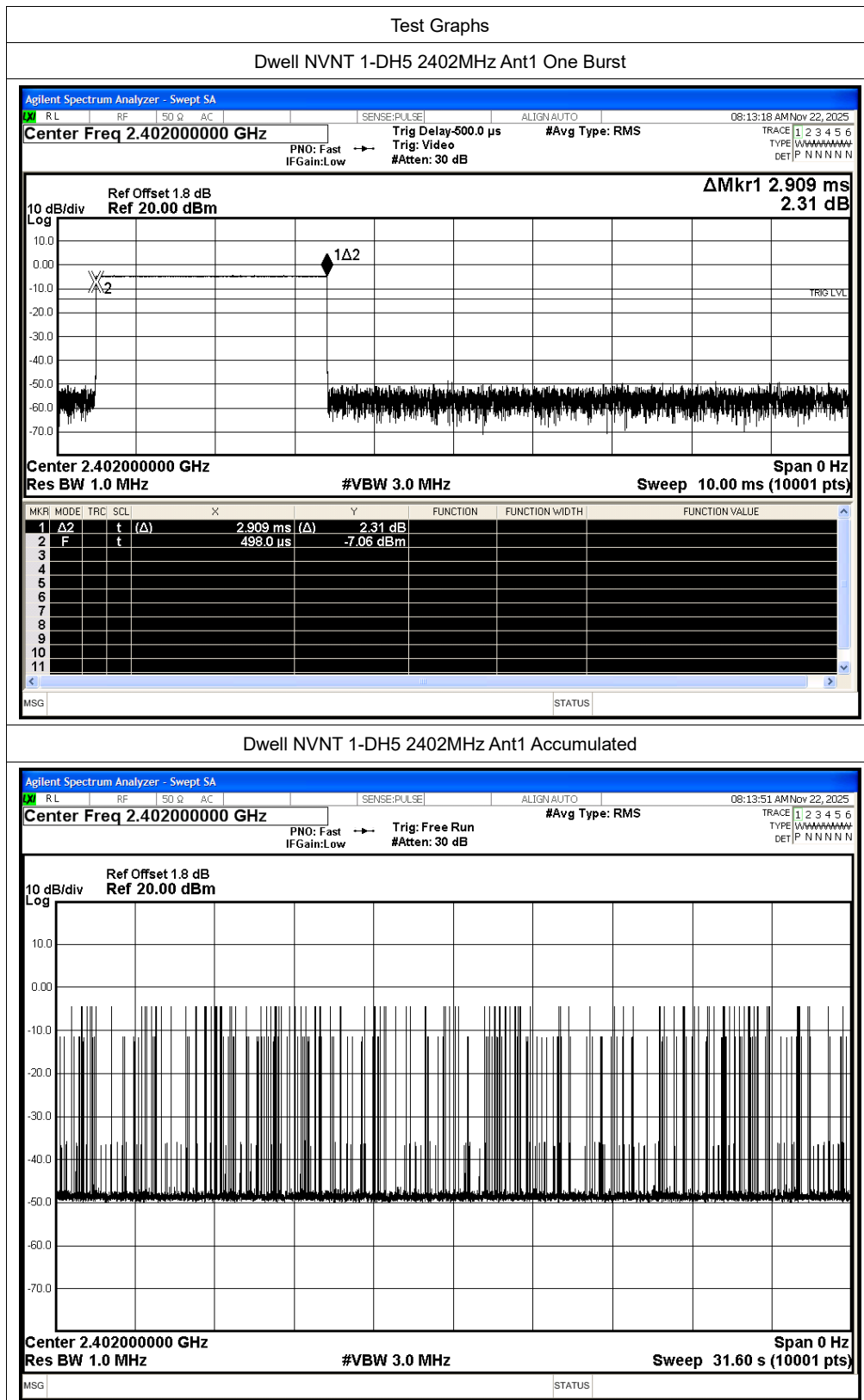
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.888	2403.162	1.274	0.669	Pass
NVNT	2-DH5	Ant1	2402.018	2403.156	1.138	0.858	Pass
NVNT	3-DH5	Ant1	2402.104	2403.02	0.916	0.874	Pass

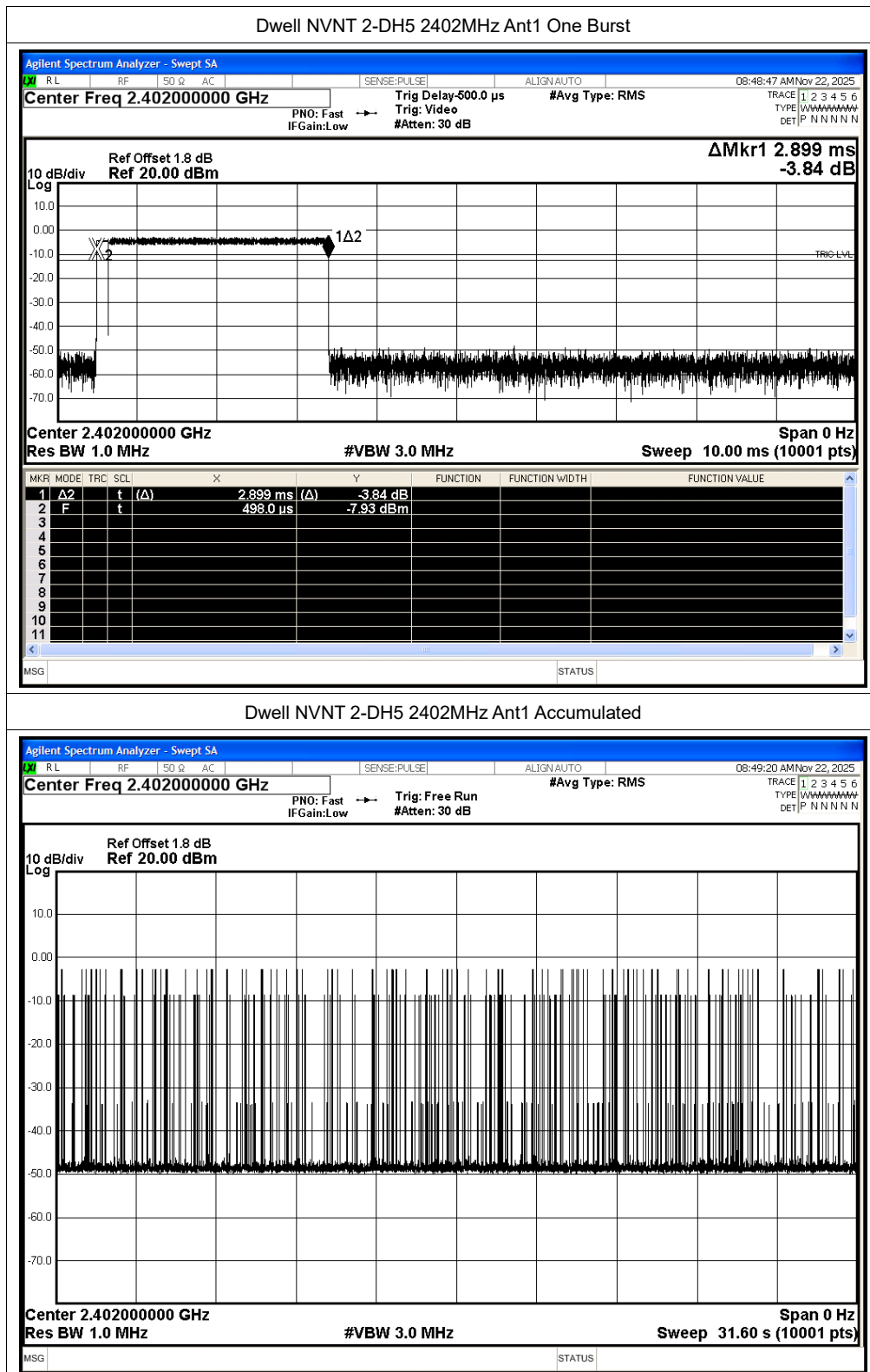


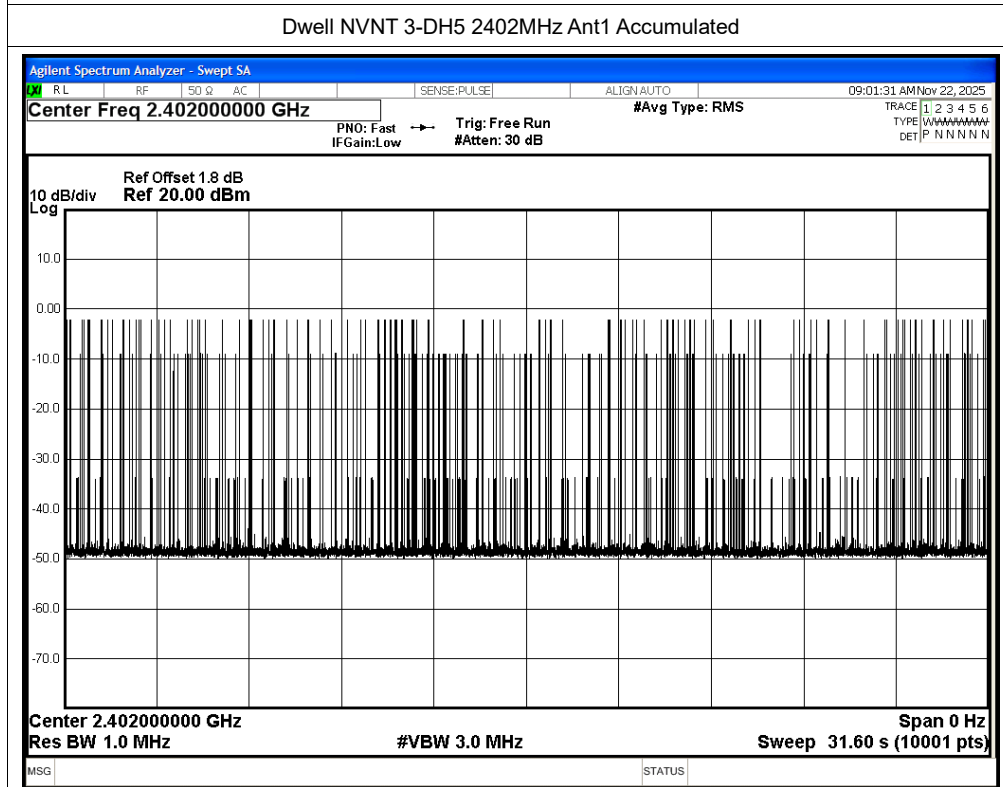
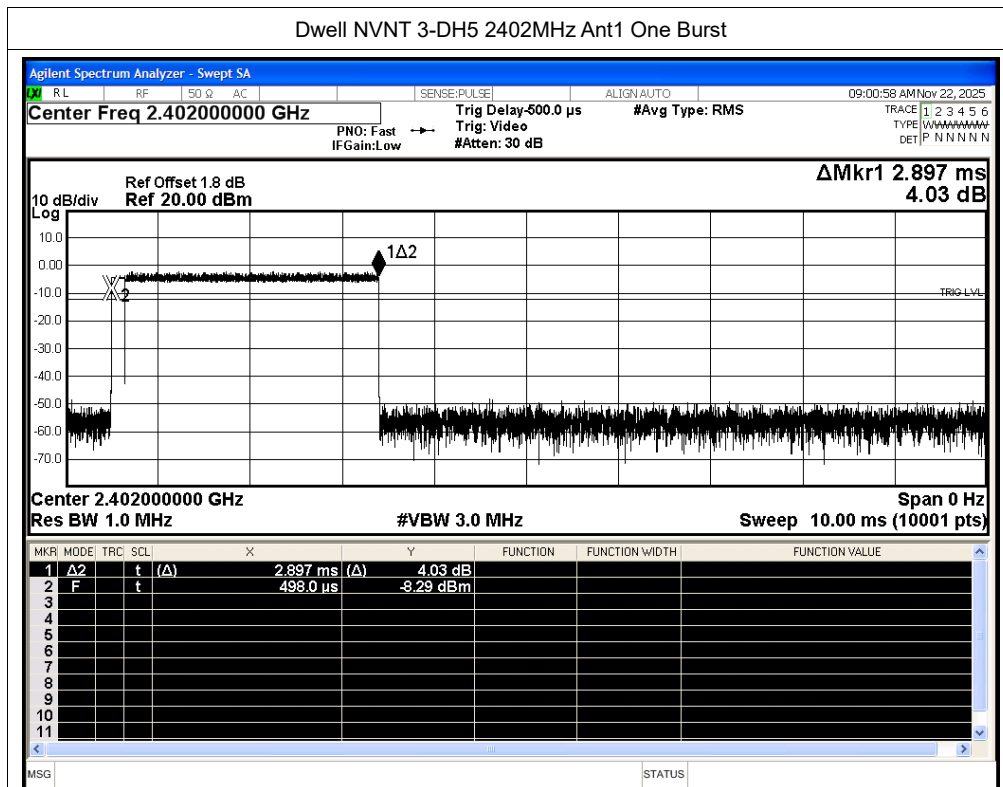


A.4 Dwell Time

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	2.909	322.899	111	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.899	298.597	103	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	315.773	109	31600	400	Pass

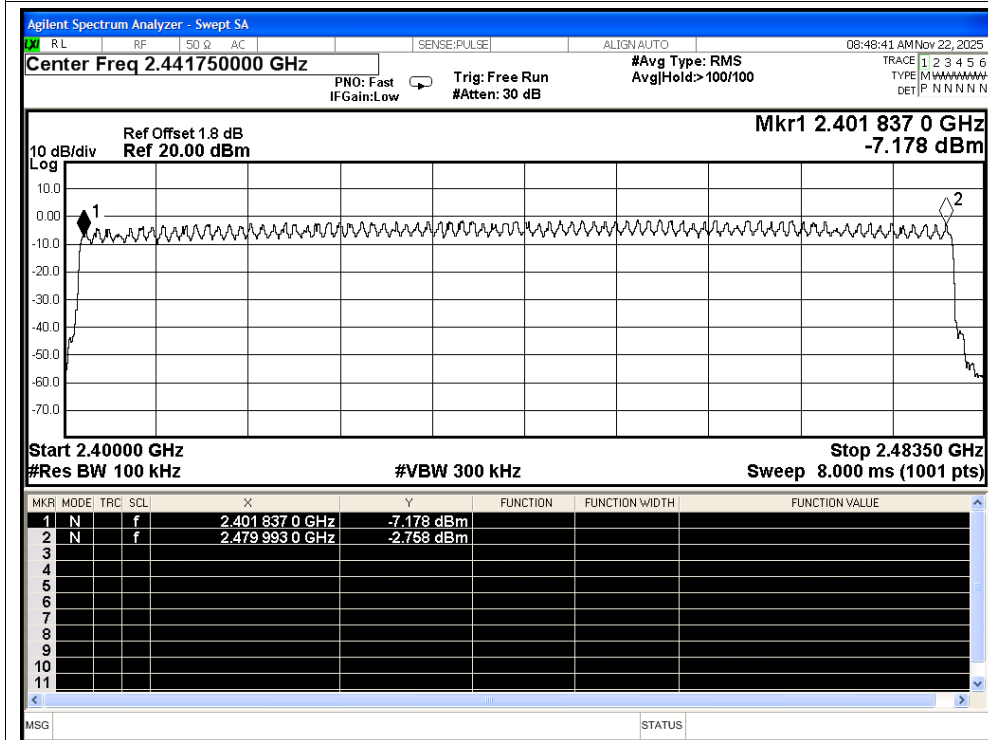


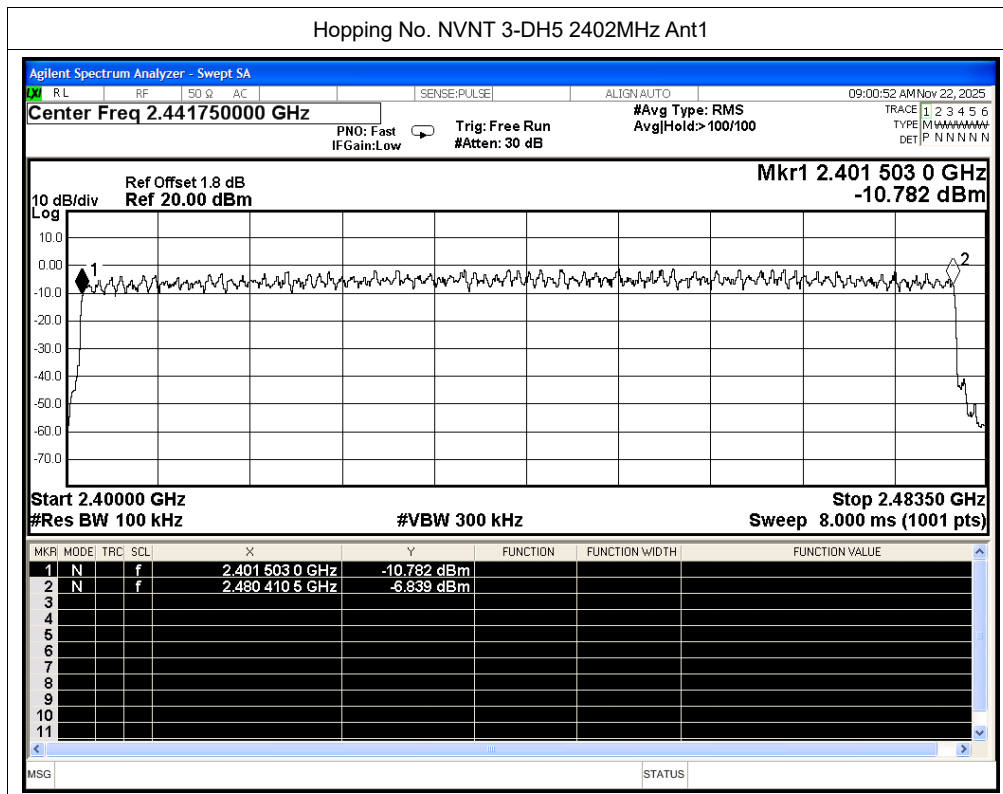




A.5 Number of Hopping Channel

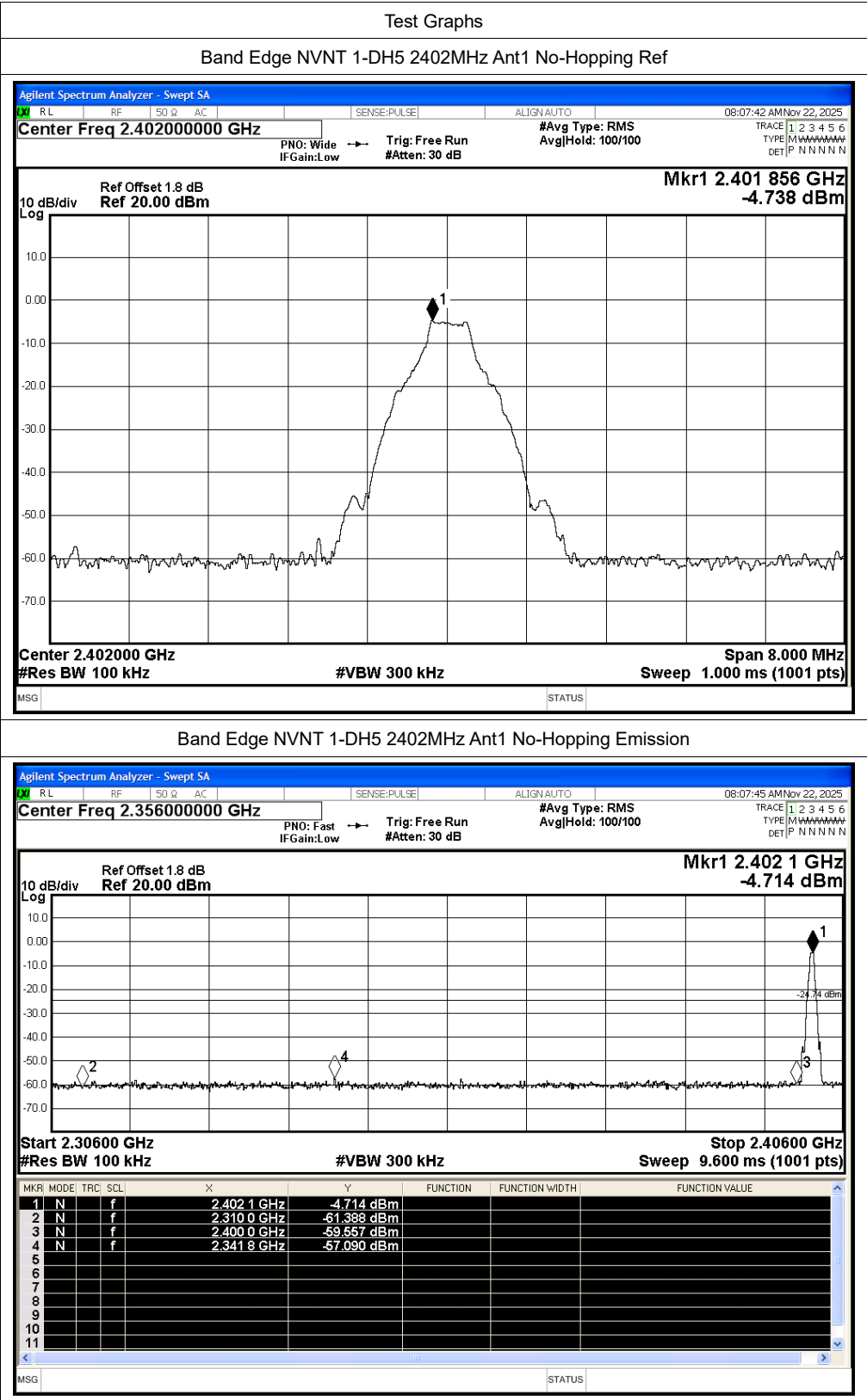
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

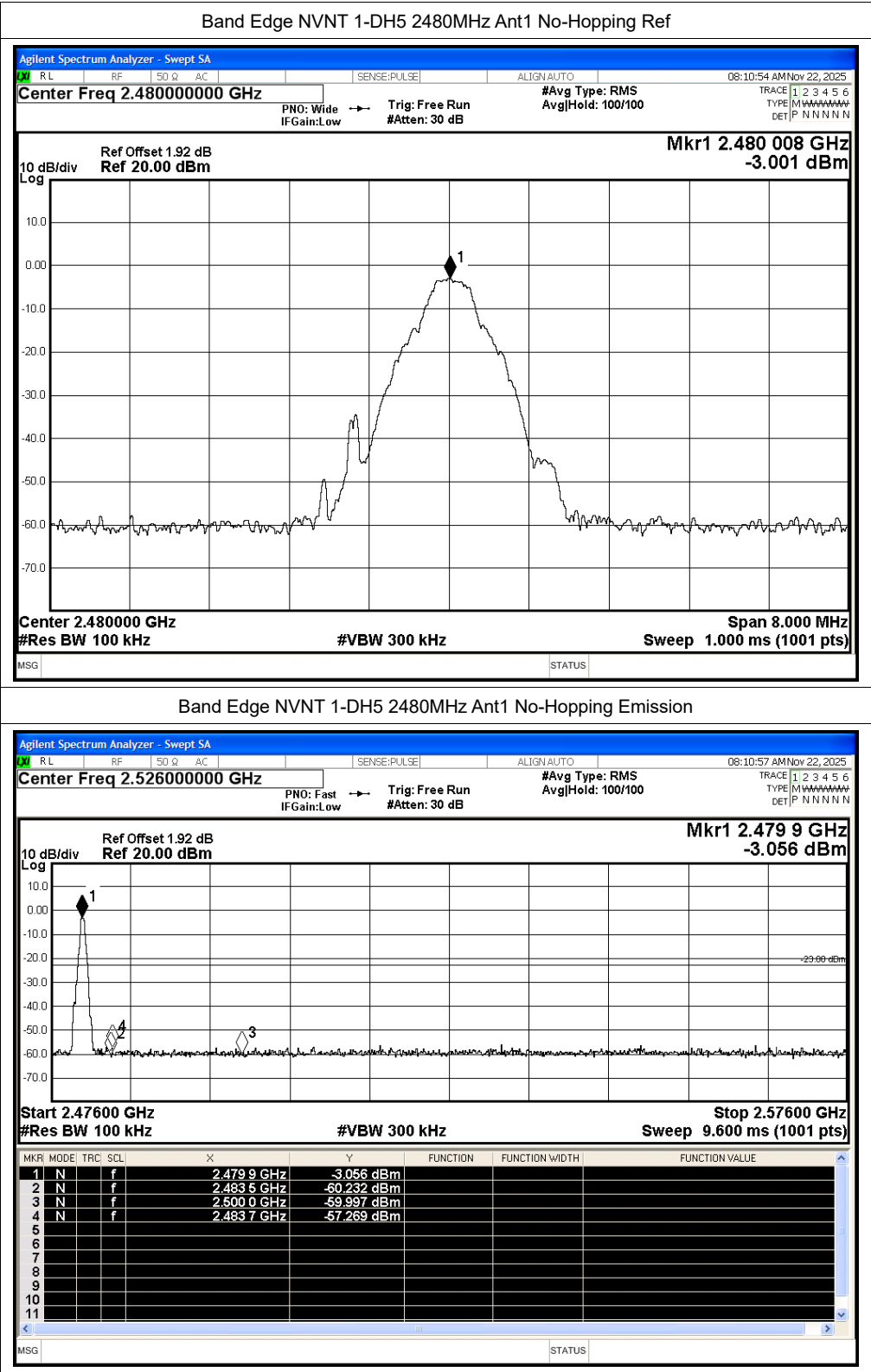


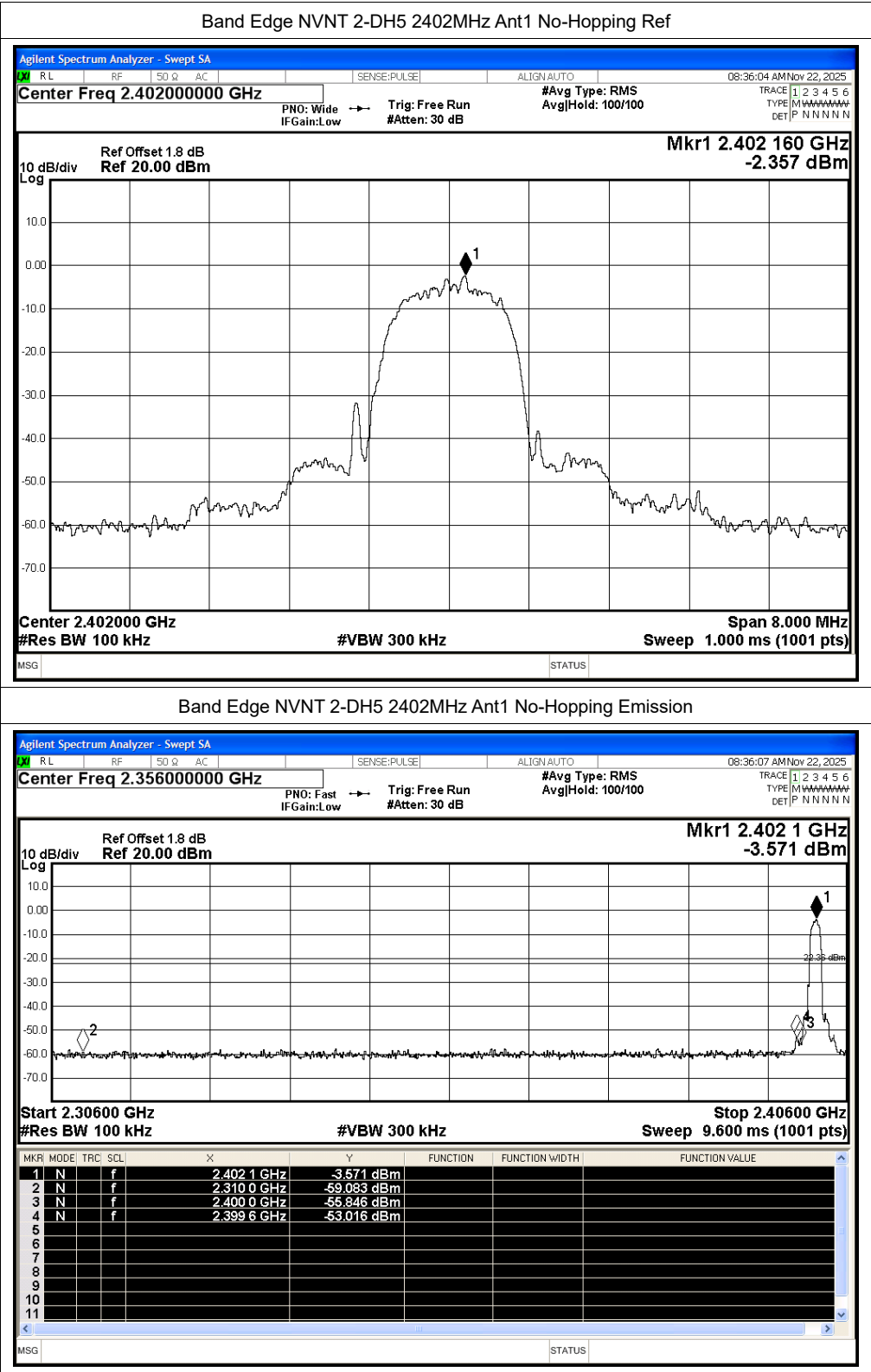


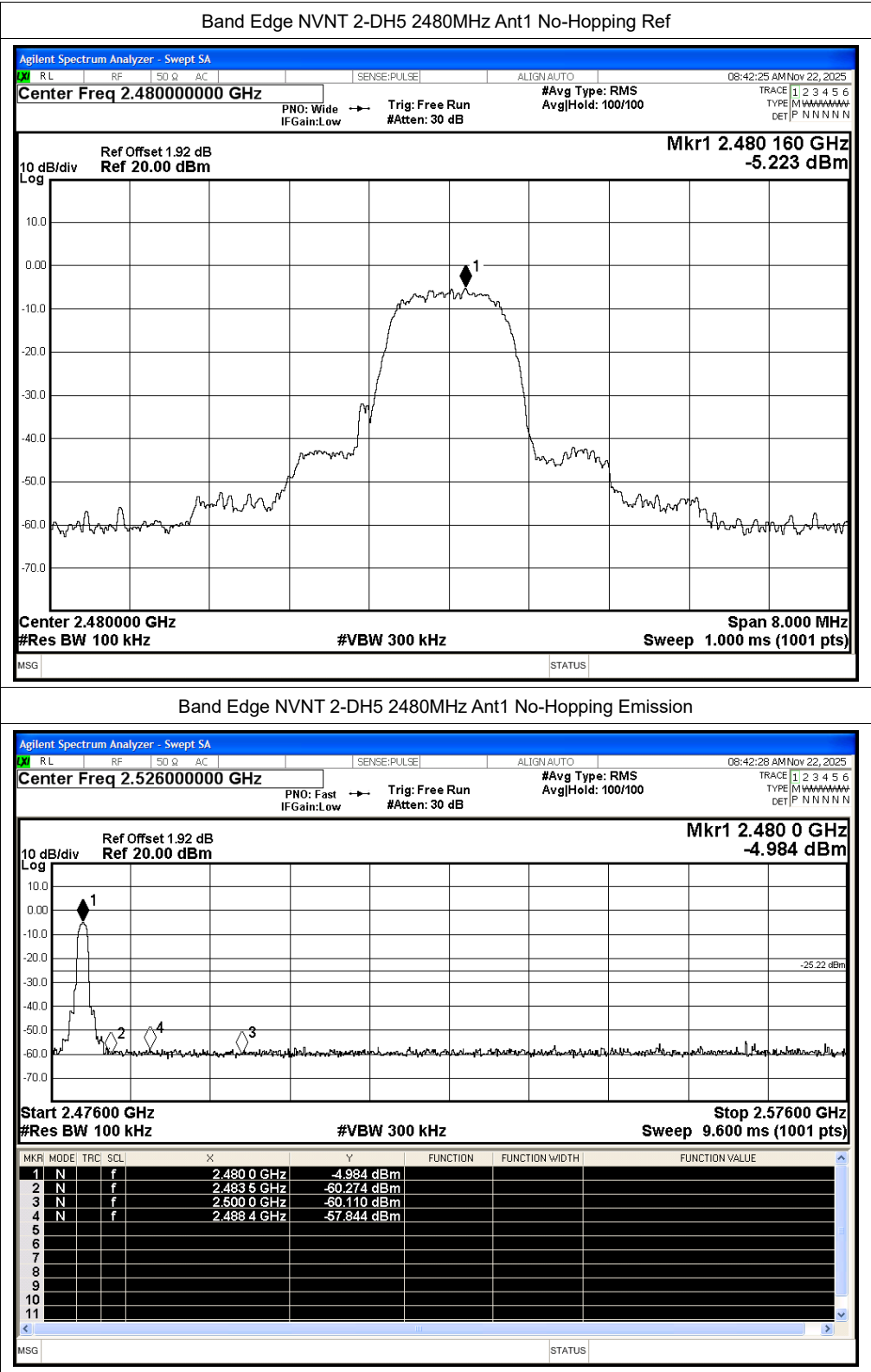
A.6 Band Edge

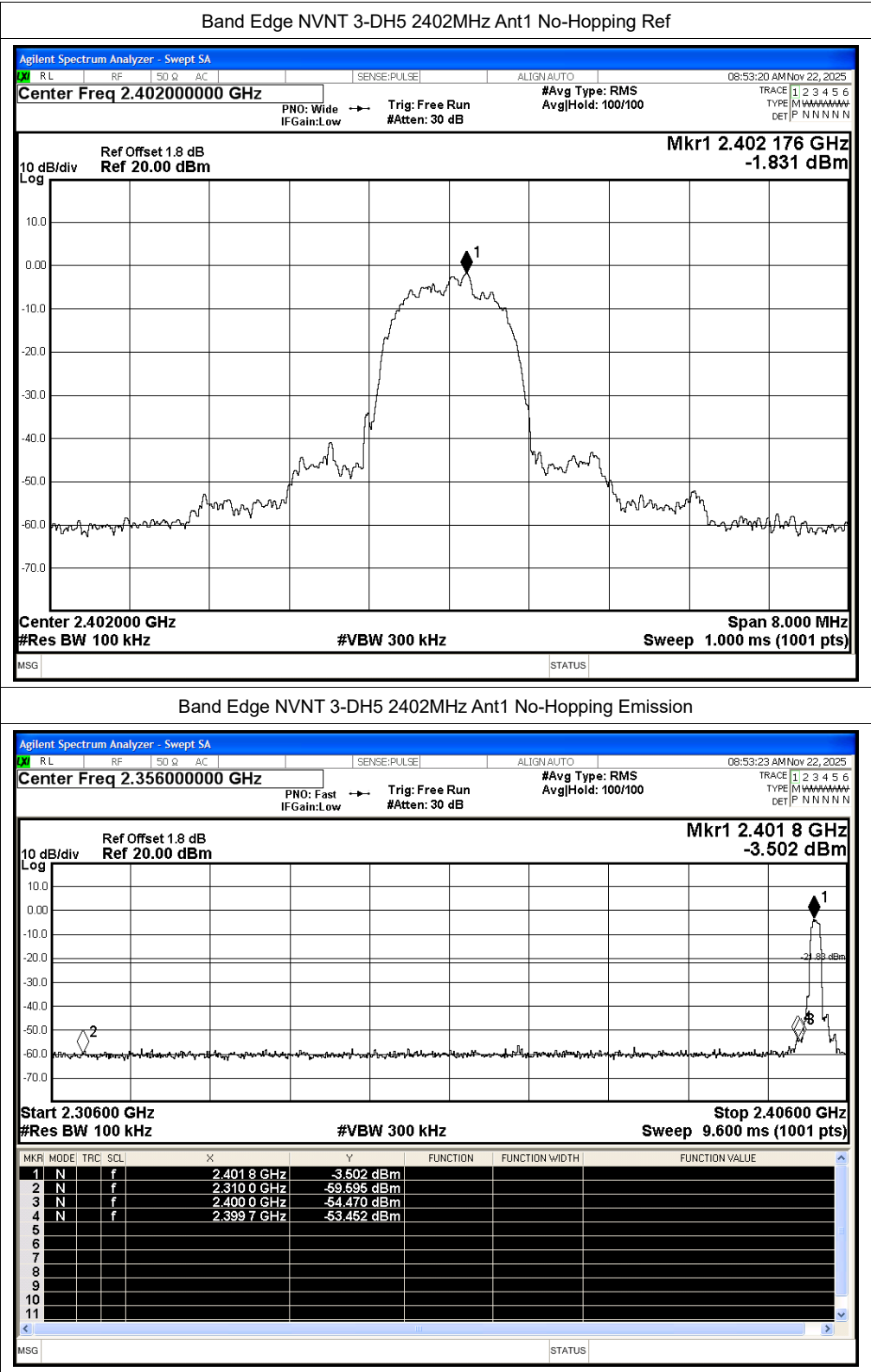
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-52.35	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-54.27	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-50.66	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-52.62	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.62	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-53.18	-20	Pass

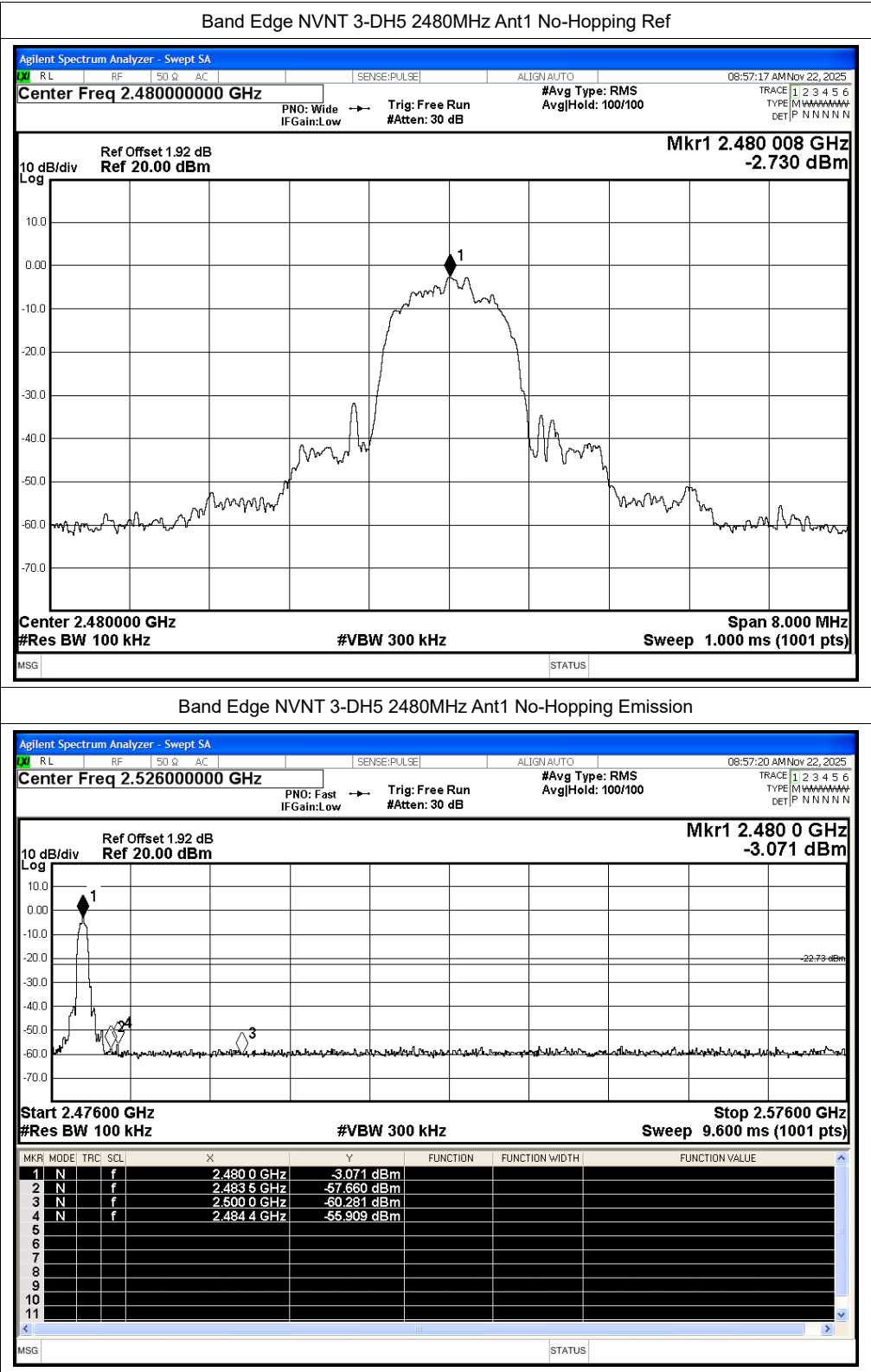






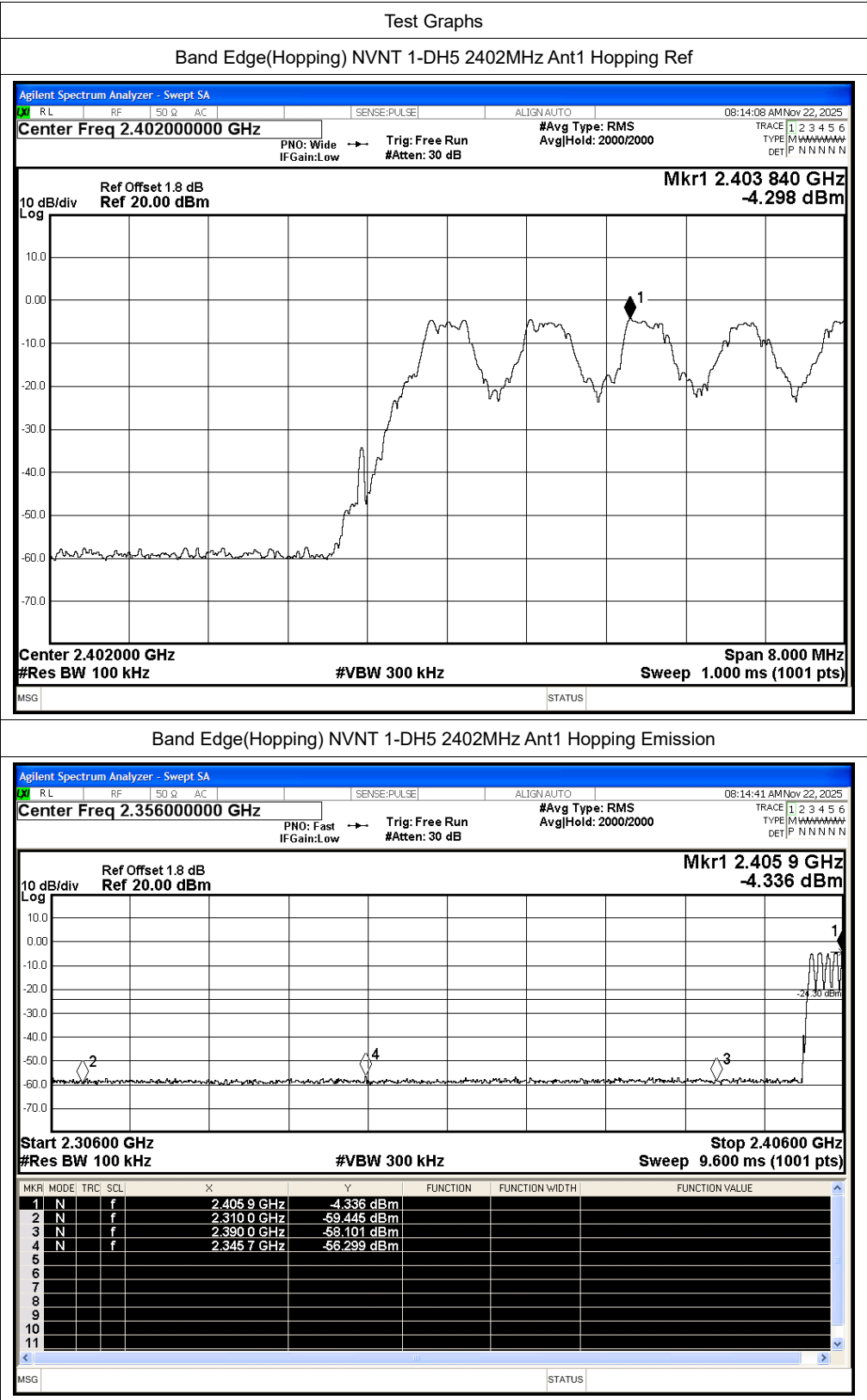


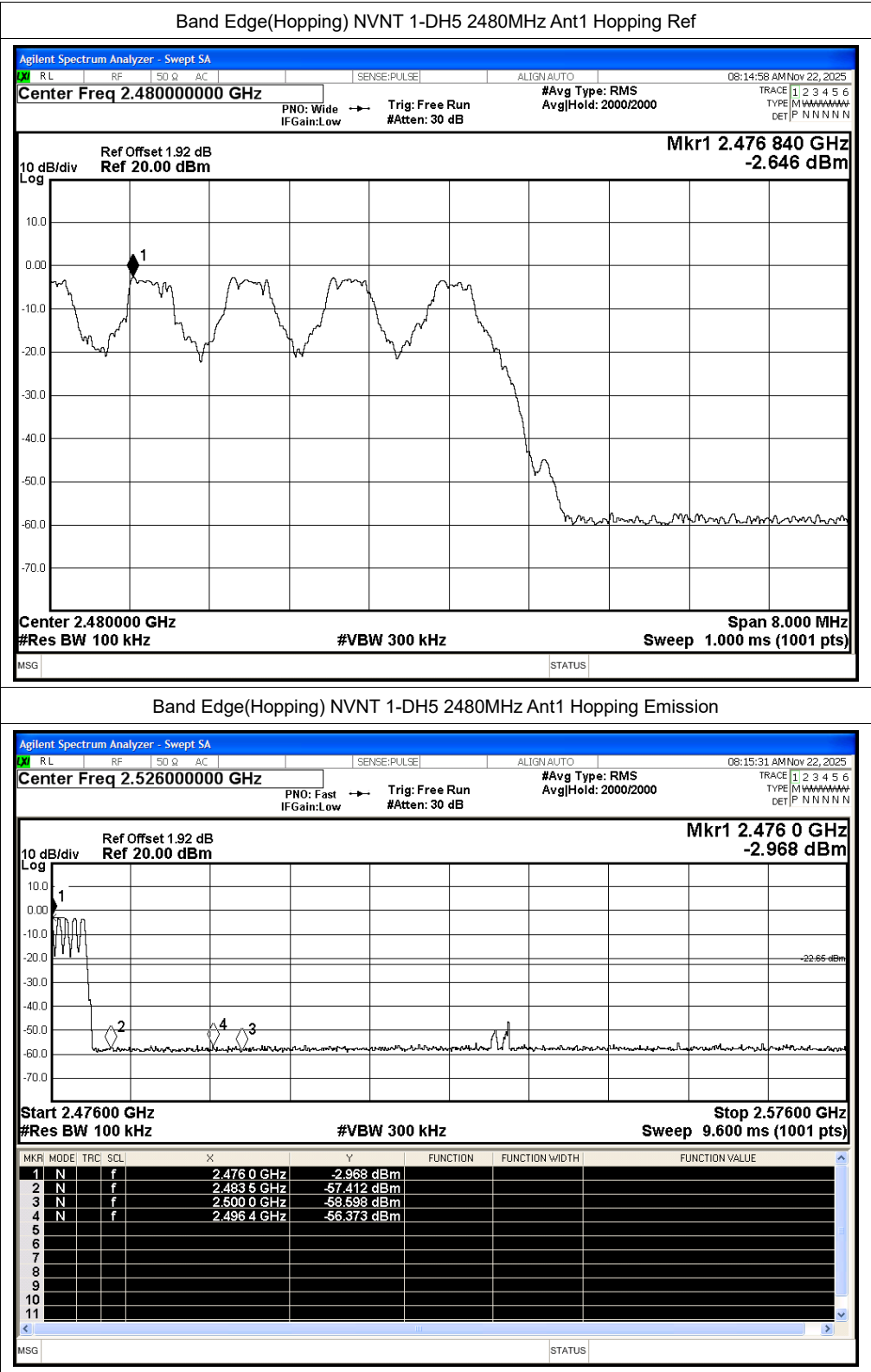


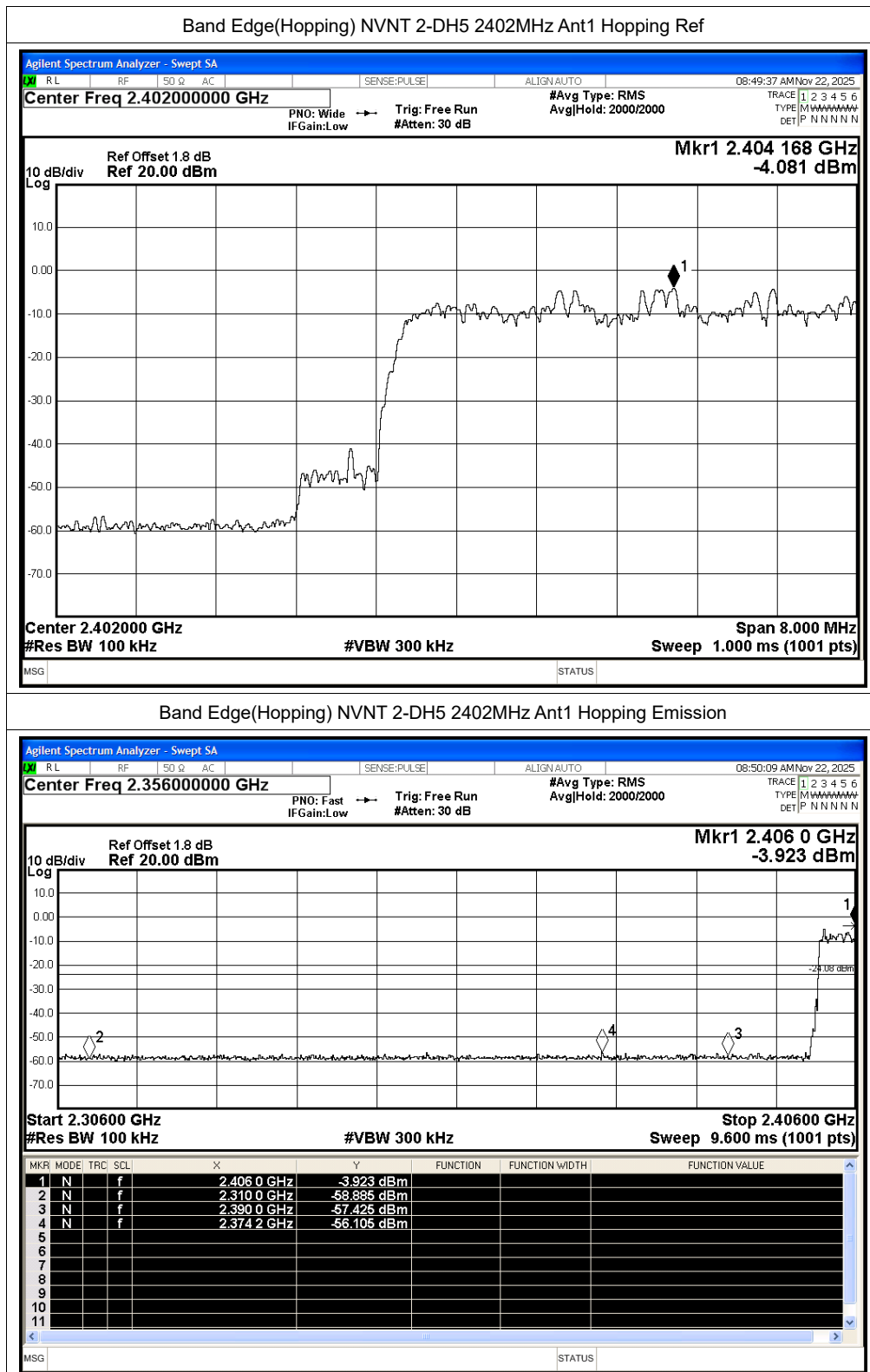


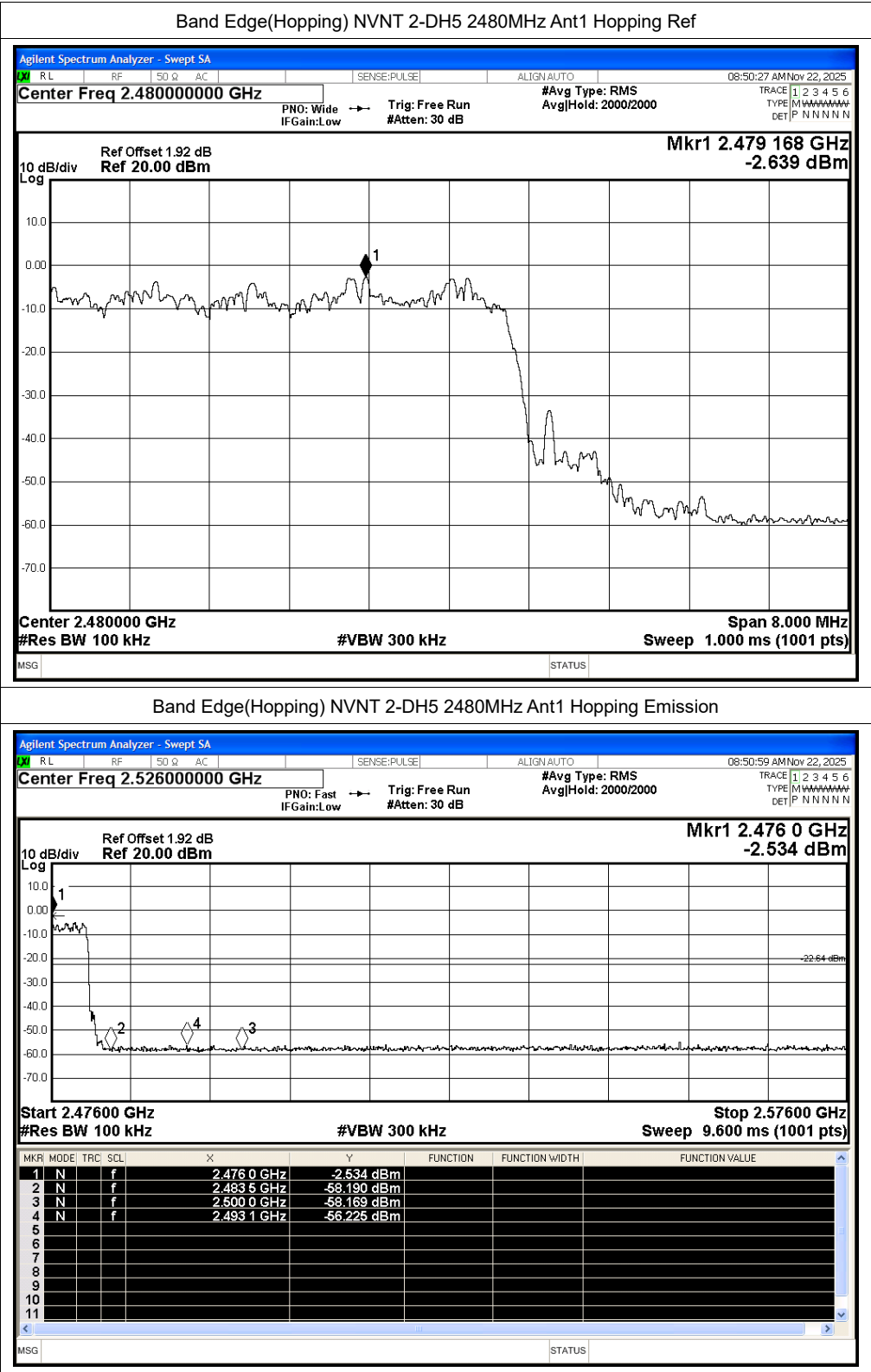
(Hopping)

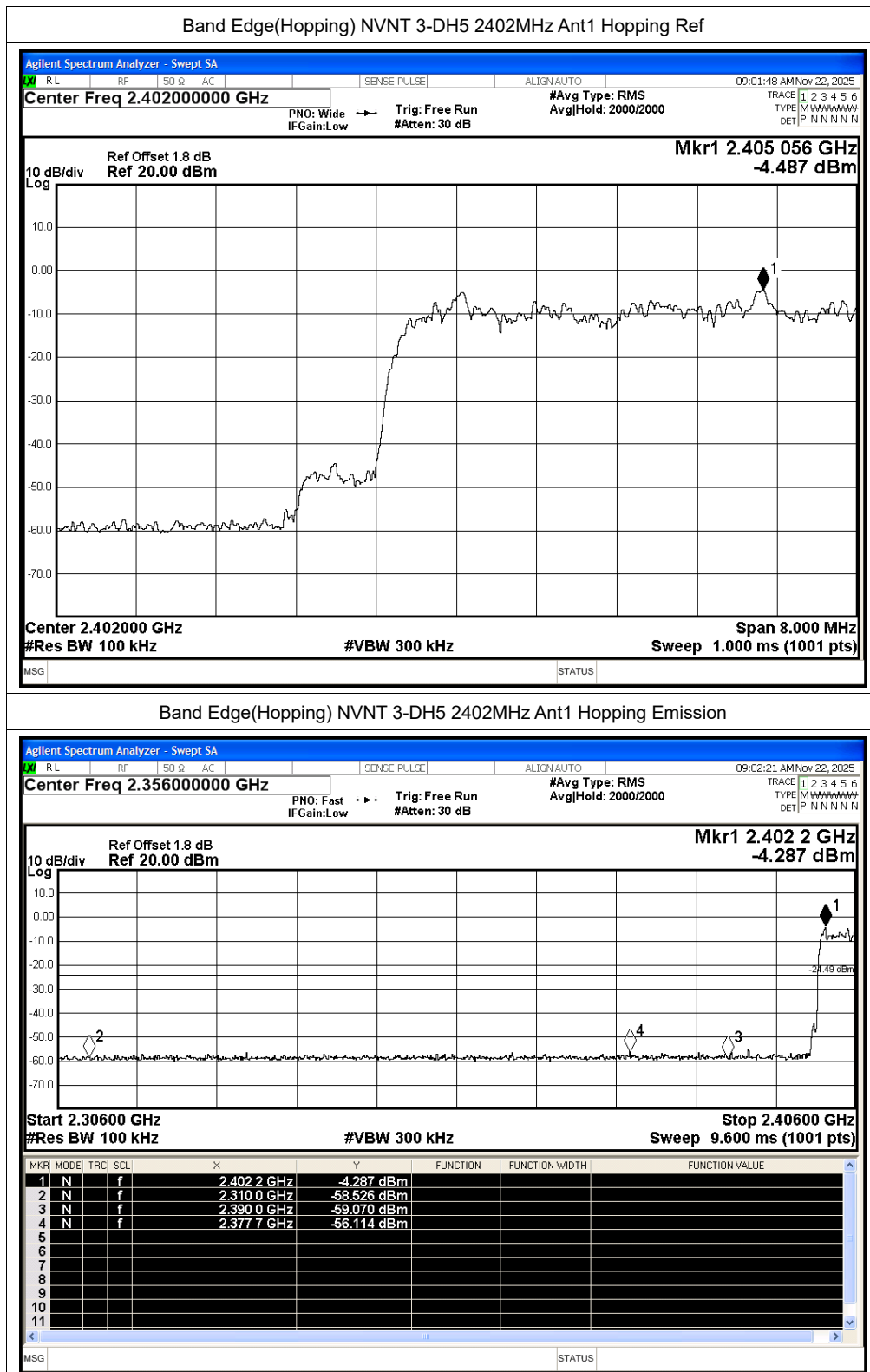
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-52	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-53.73	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.02	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.59	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-51.63	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53.91	-20	Pass

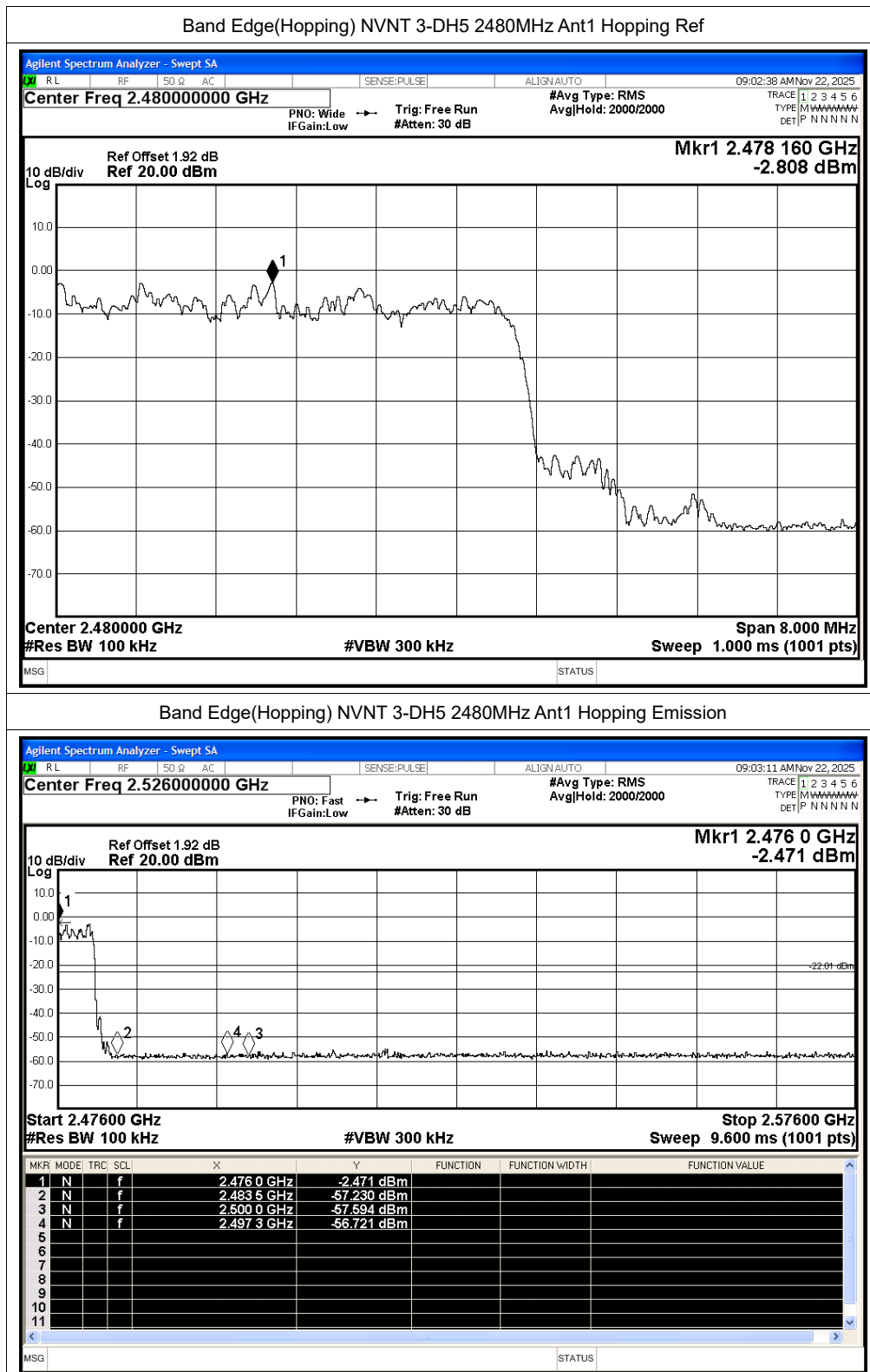






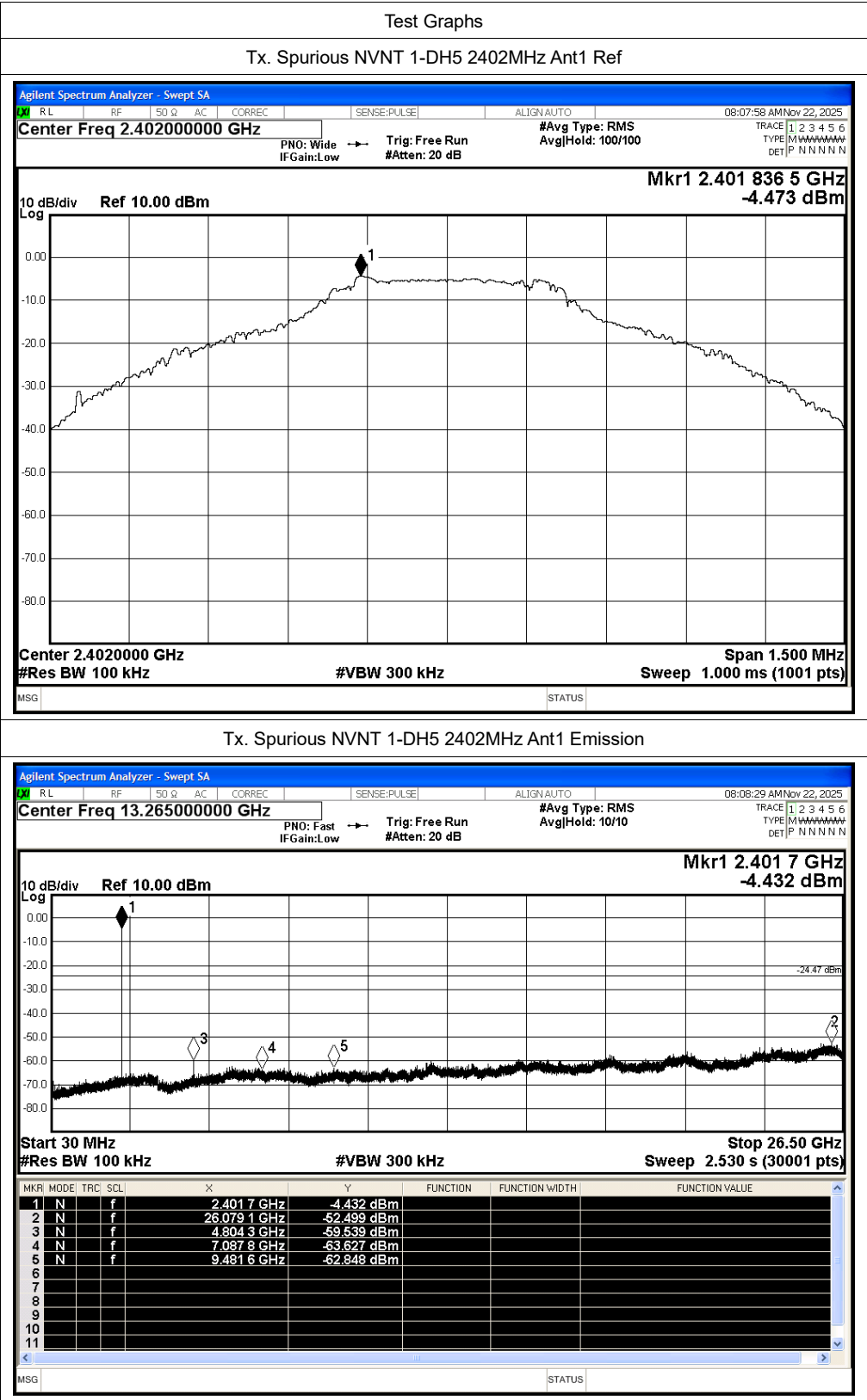


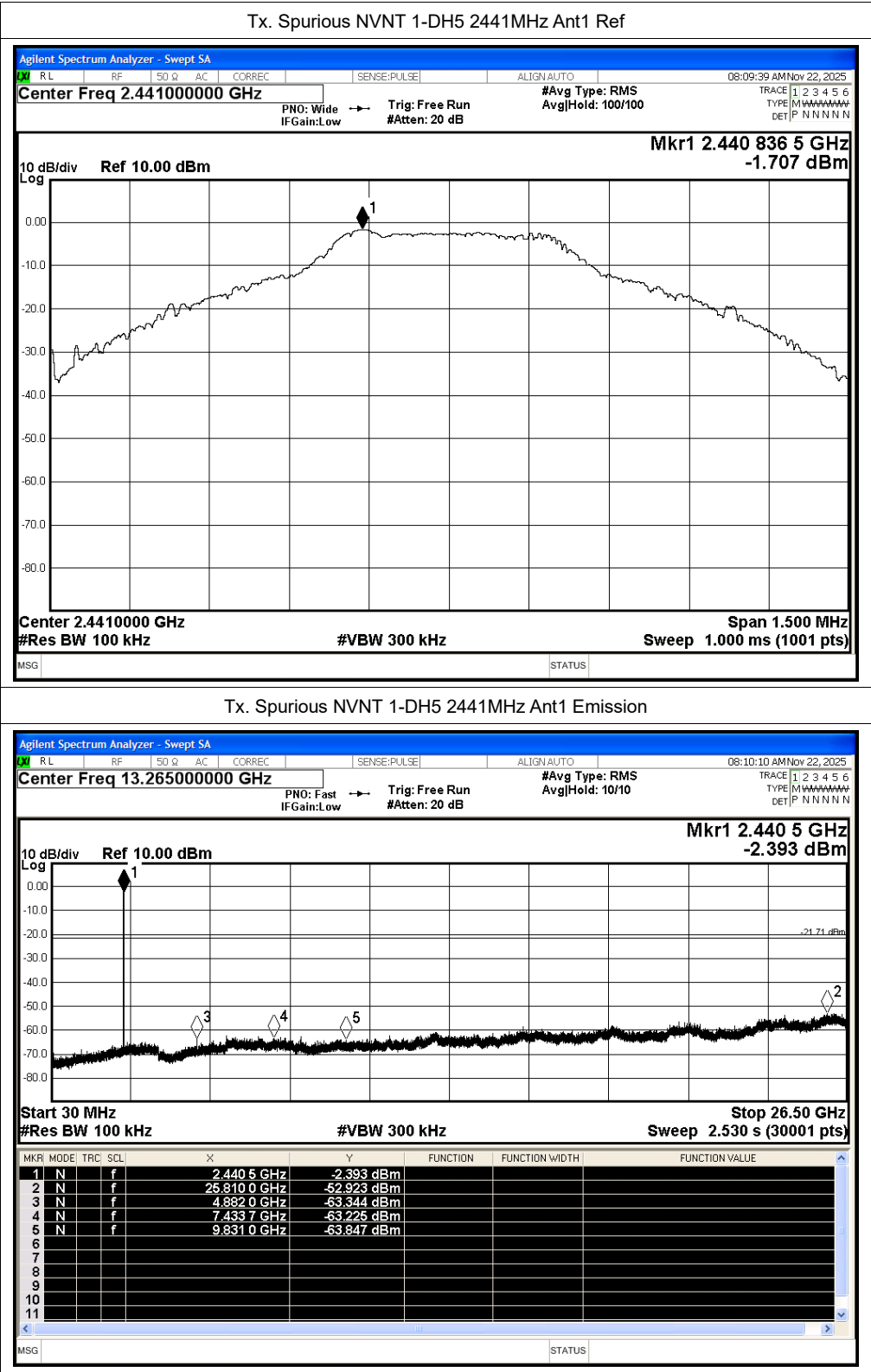


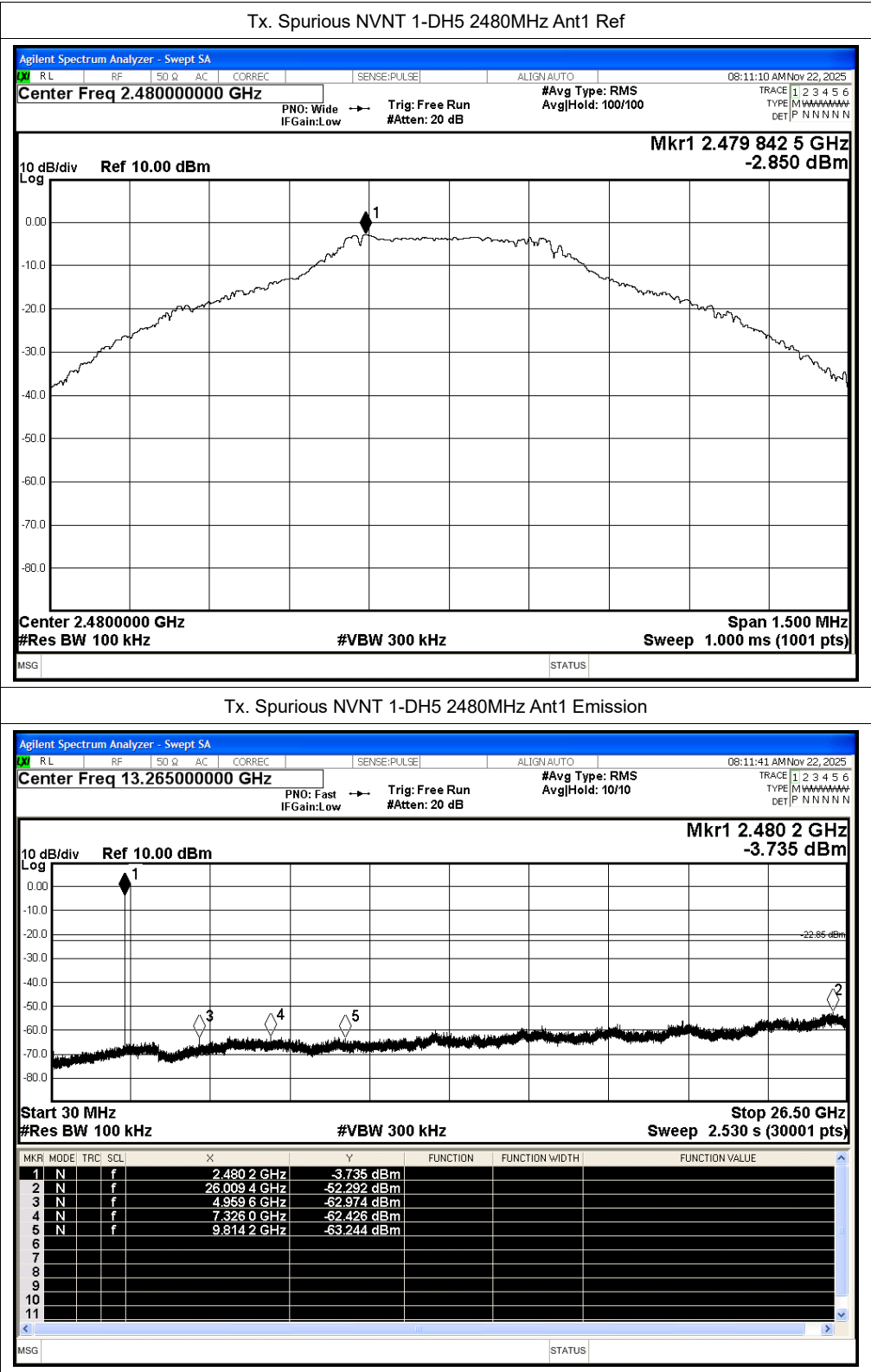


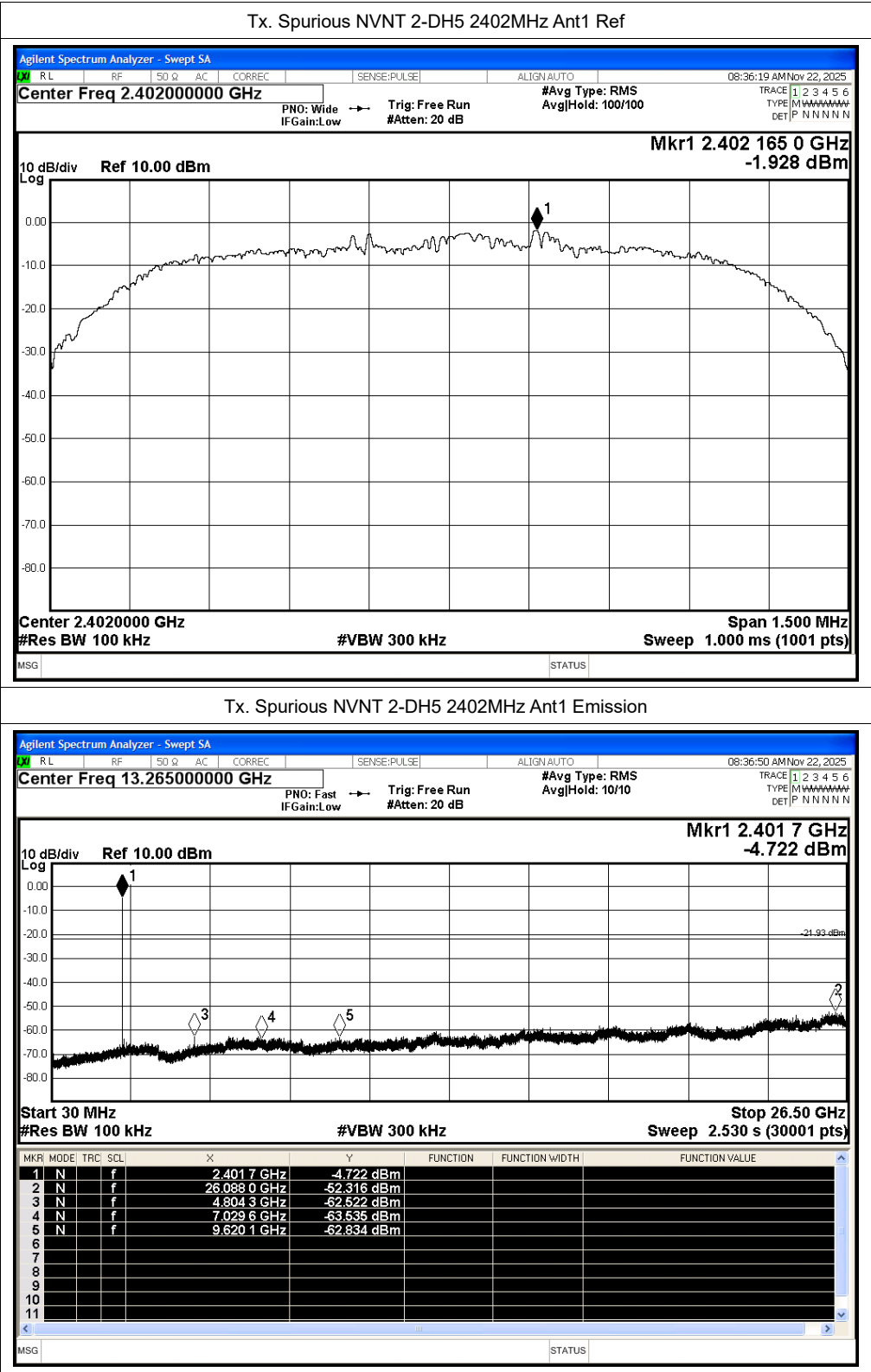
A.7 Conducted RF Spurious Emission

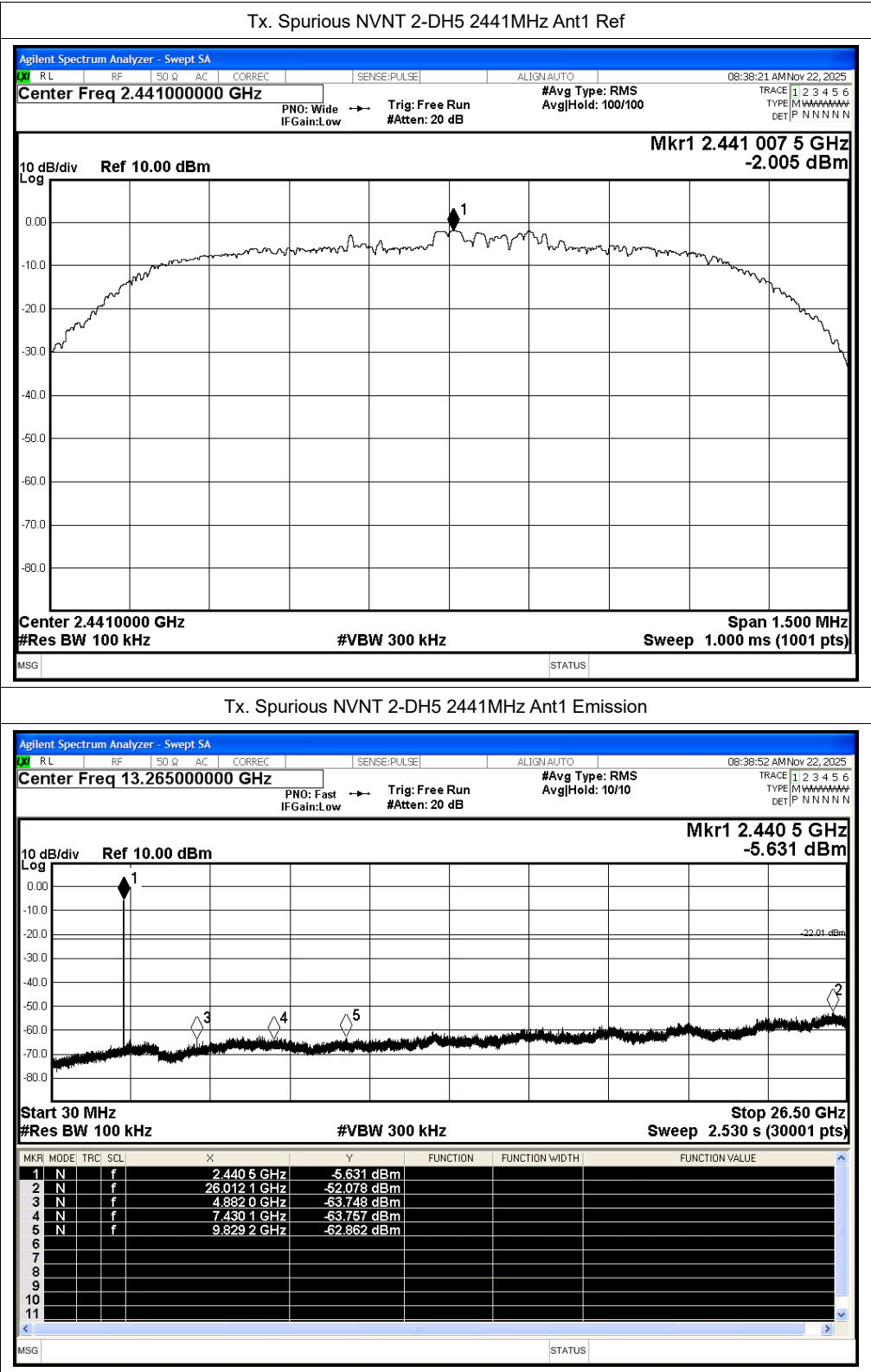
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-48.03	-20	Pass
NVNT	1-DH5	2441	Ant1	-51.22	-20	Pass
NVNT	1-DH5	2480	Ant1	-49.44	-20	Pass
NVNT	2-DH5	2402	Ant1	-50.39	-20	Pass
NVNT	2-DH5	2441	Ant1	-50.07	-20	Pass
NVNT	2-DH5	2480	Ant1	-49.15	-20	Pass
NVNT	3-DH5	2402	Ant1	-49.97	-20	Pass
NVNT	3-DH5	2441	Ant1	-50.49	-20	Pass
NVNT	3-DH5	2480	Ant1	-50.1	-20	Pass

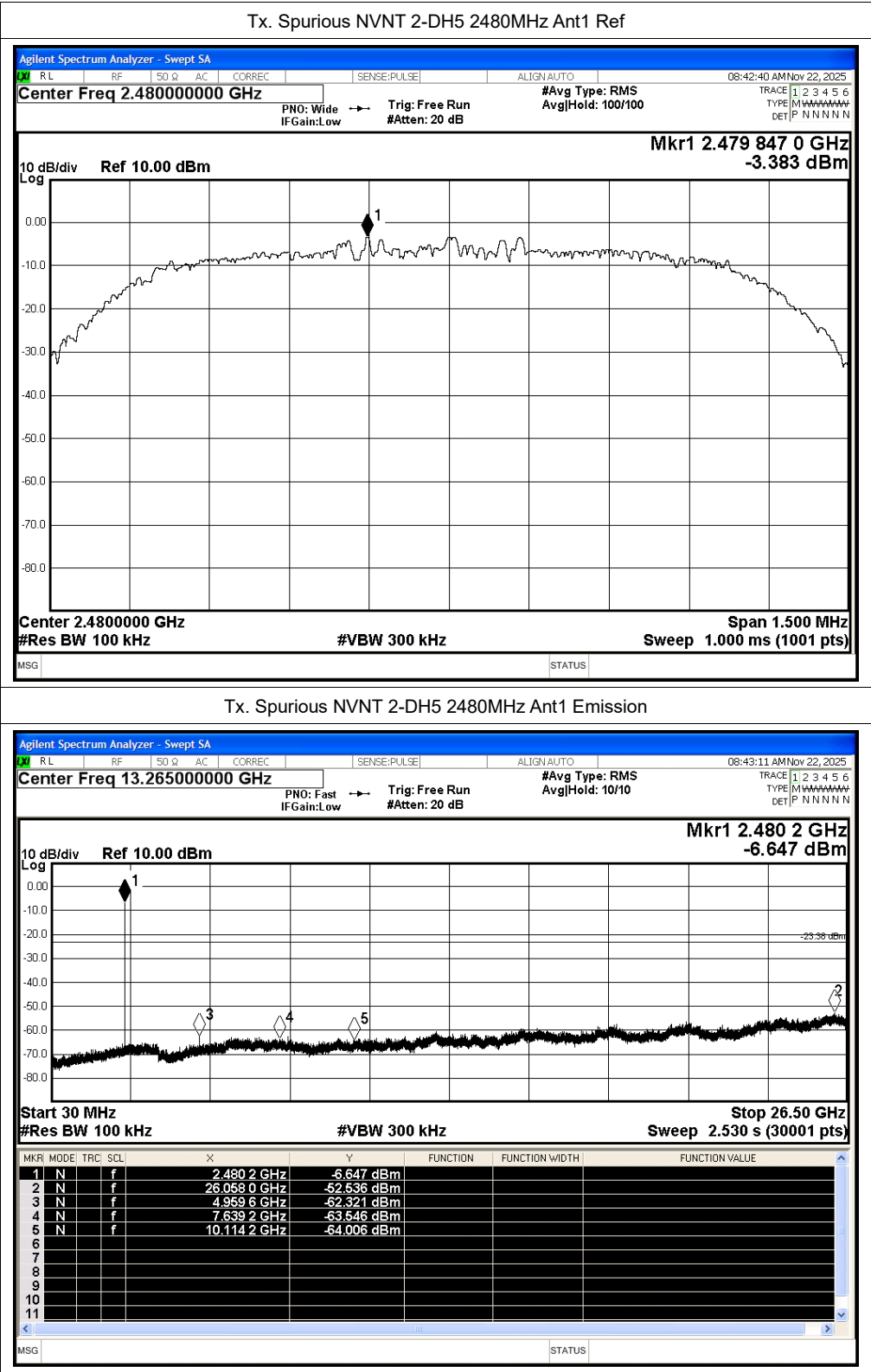


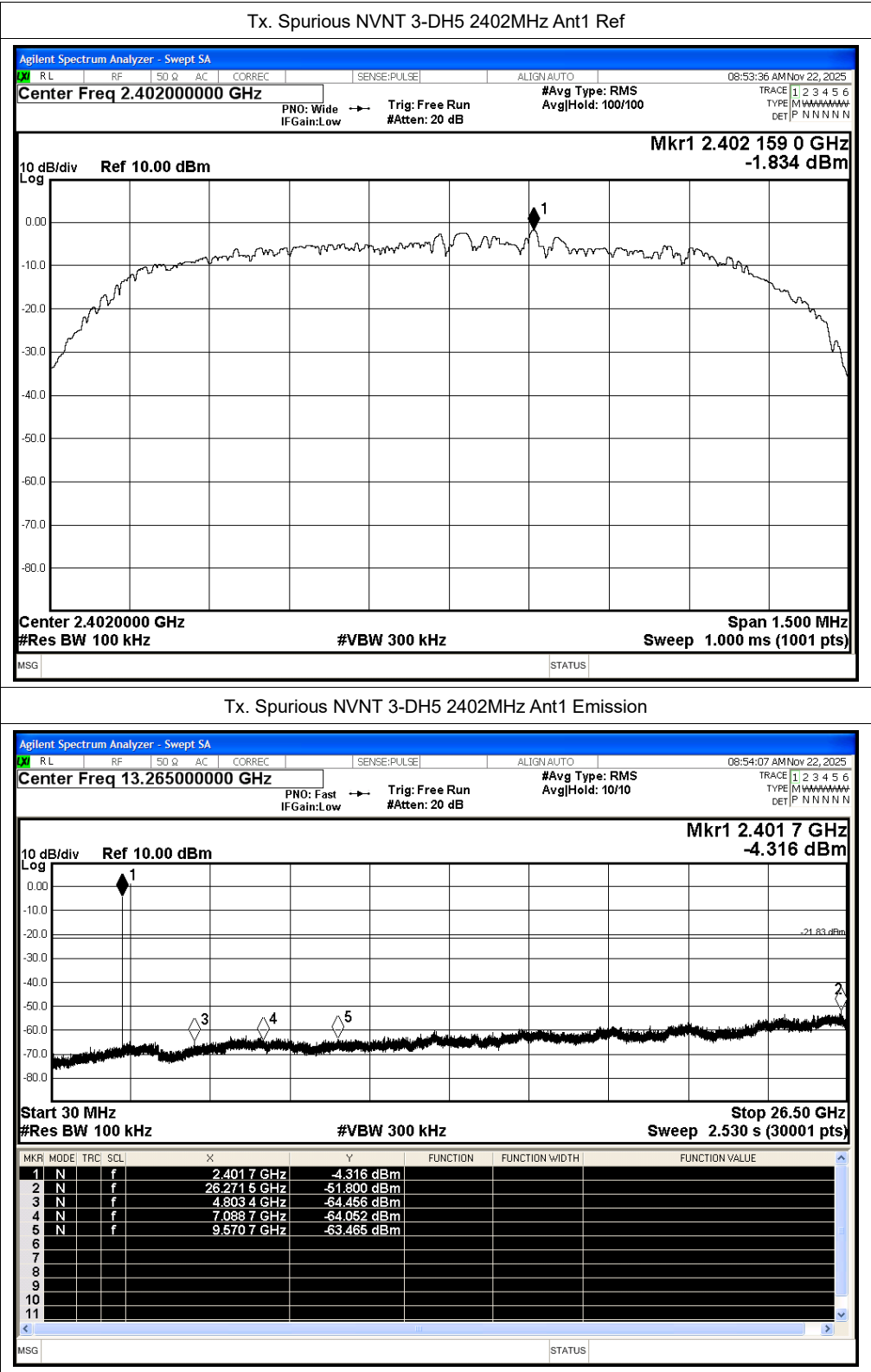


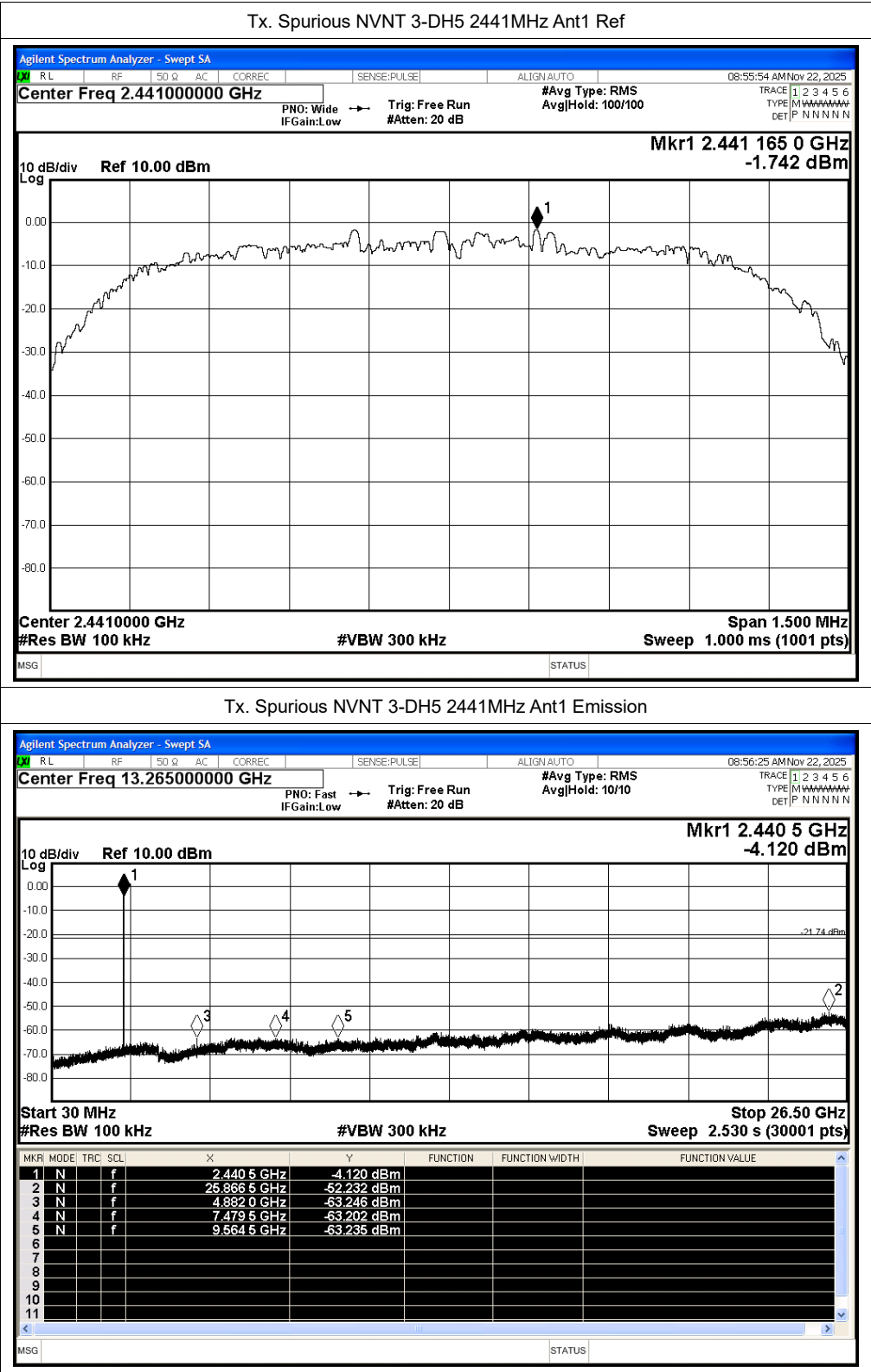


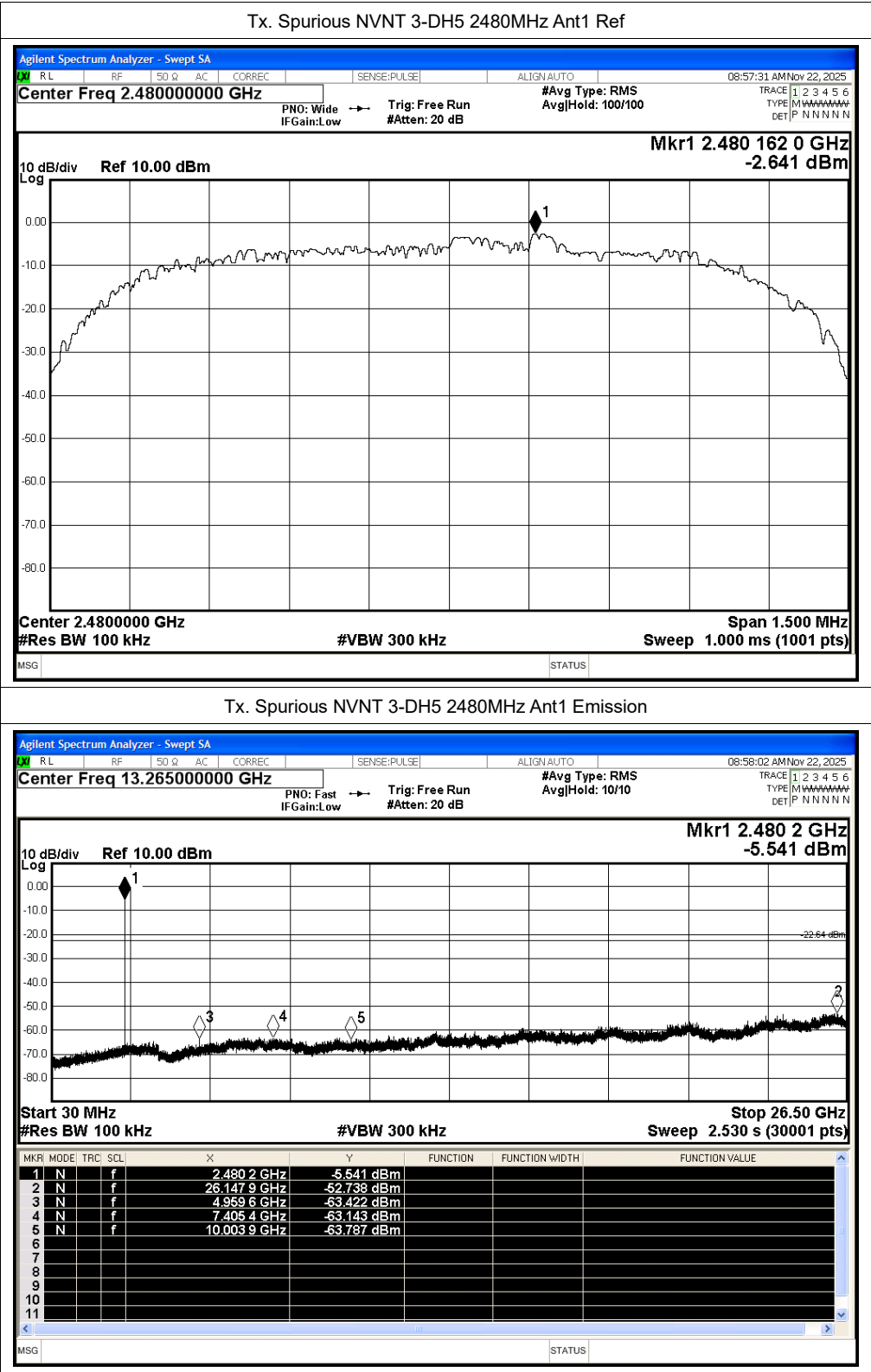






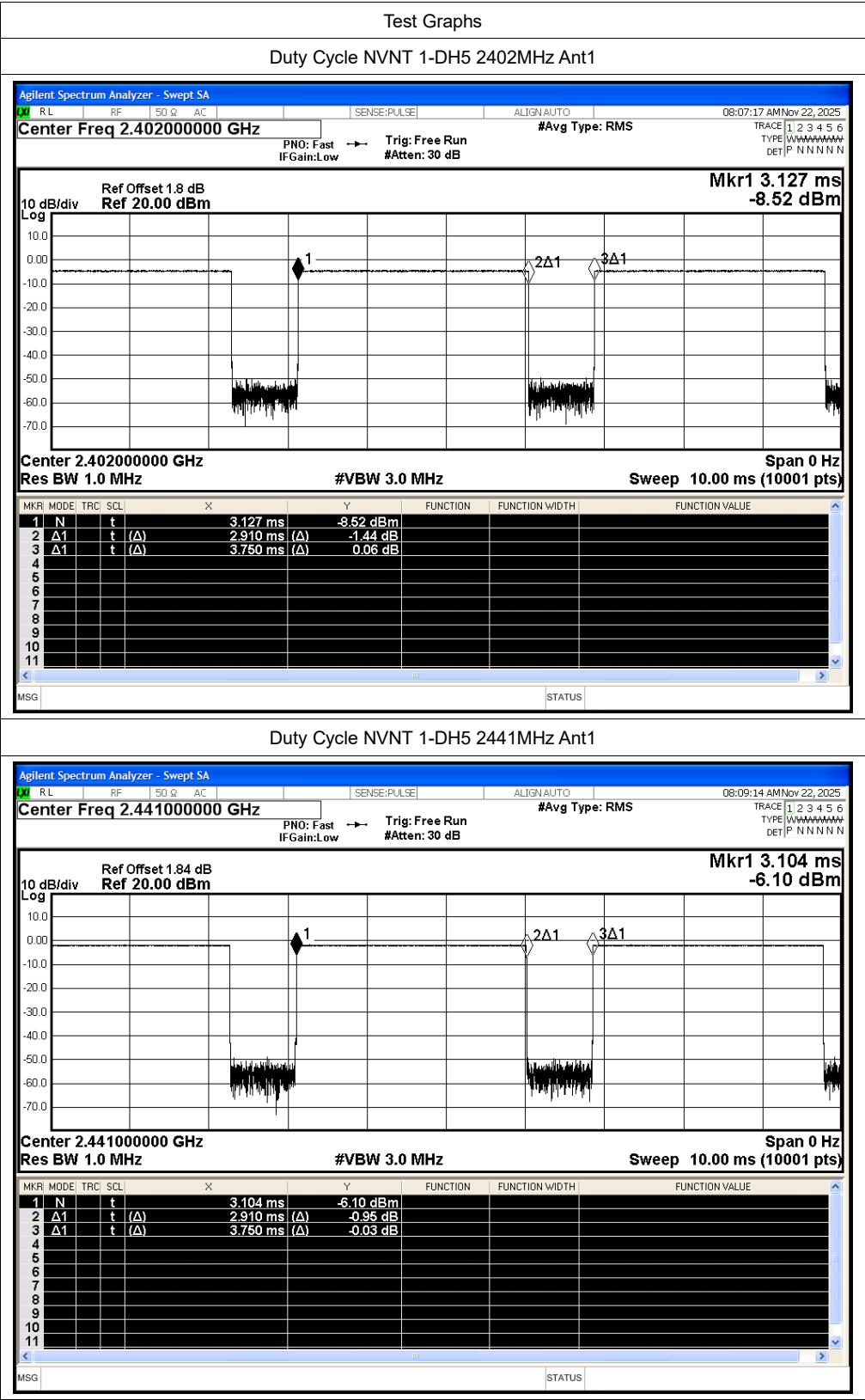


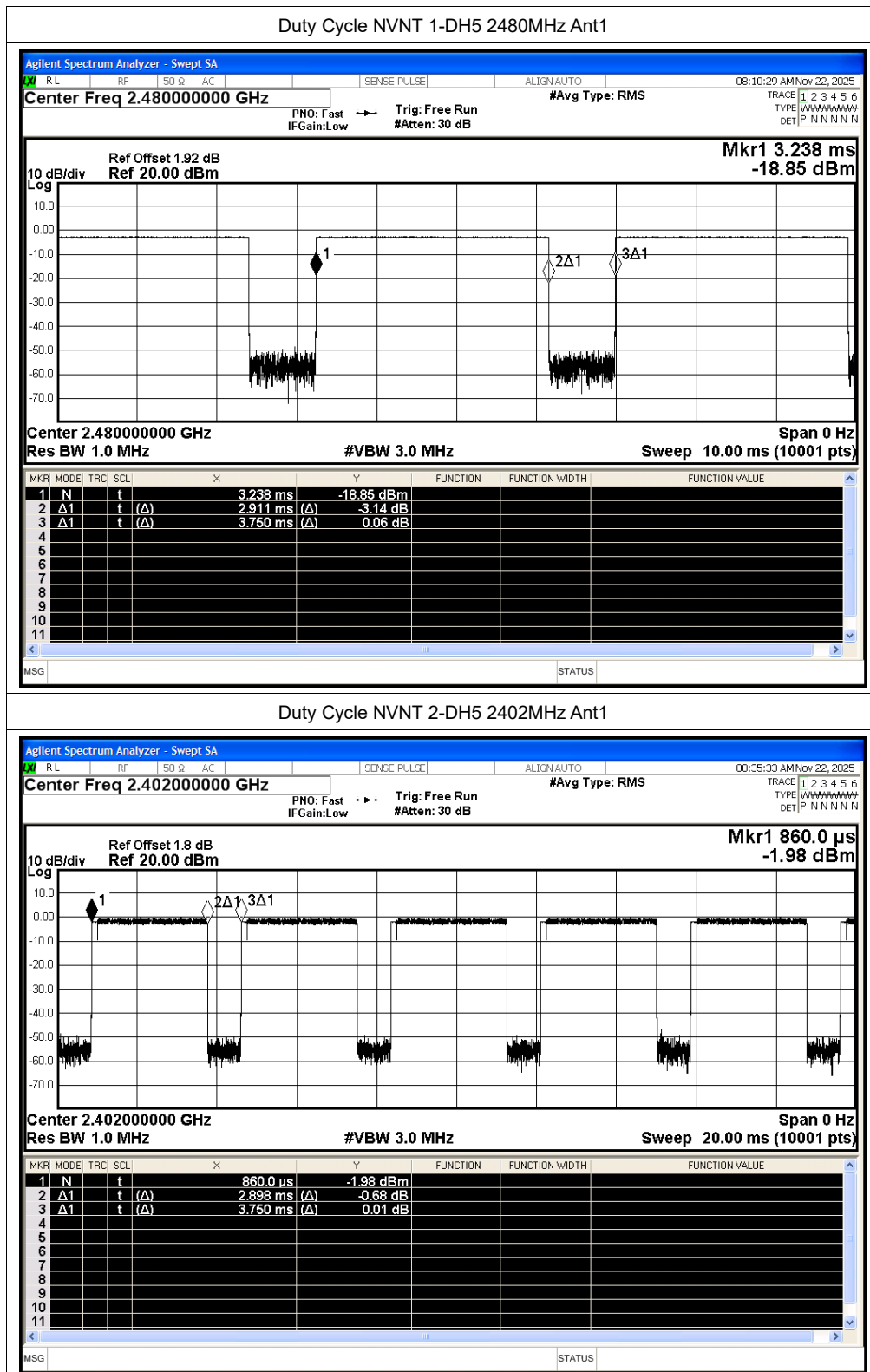


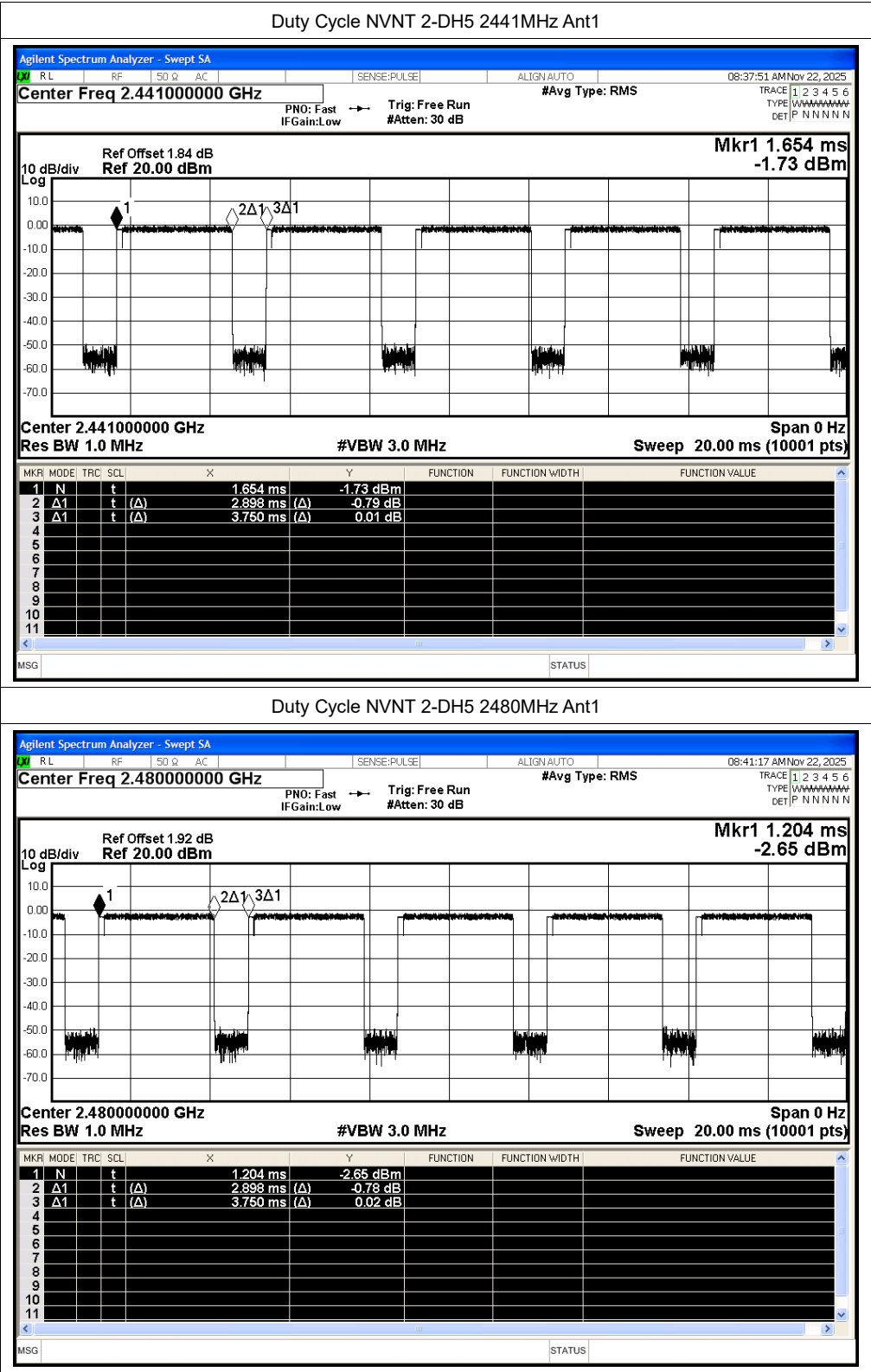


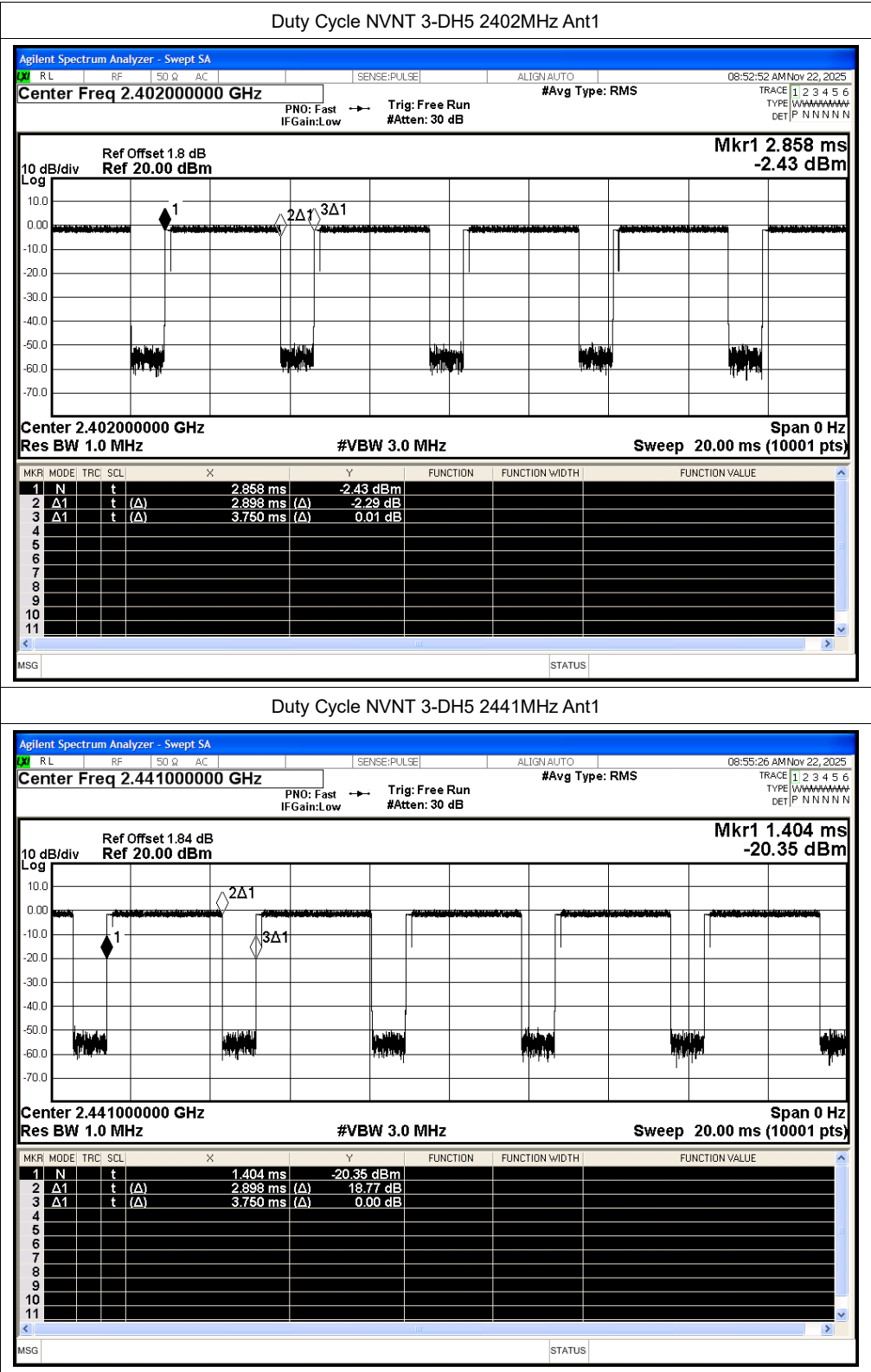
A.8 Duty Cycle

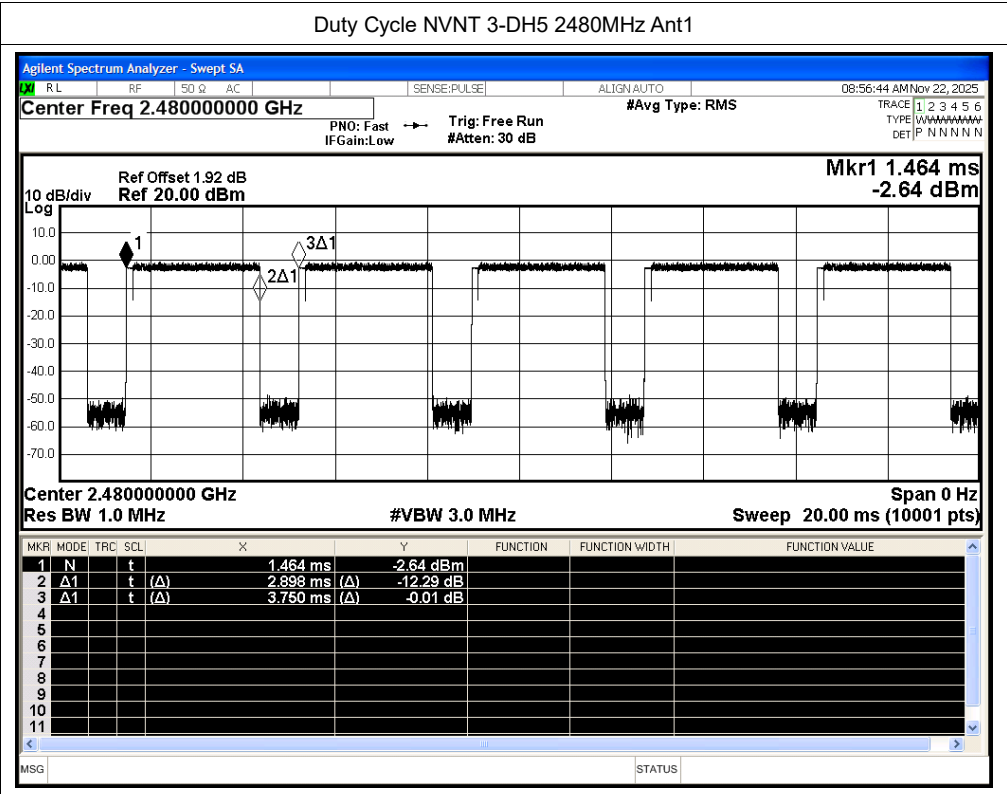
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.63	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant1	77.28	1.12	0.35











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	-51.13	2	-	46.13	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-59.2	2	1.1	39.16	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2342.064	-48.02	2	-	49.24	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2376.24	-57.61	2	1.1	40.75	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.46	2	-	45.8	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.56	2	1.1	39.8	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.22	2	-	48.04	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-58.26	2	1.1	40.1	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2485.264	-46.07	2	-	51.19	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2491.696	-57.32	2	1.1	41.04	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.45	2	-	46.81	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.14	2	1.1	40.22	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-49.73	2	-	47.53	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-59.04	2	1.12	39.34	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2364.336	-47.56	2	-	49.7	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.296	-57.52	2	1.12	40.86	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.75	2	-	46.51	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.43	2	1.12	39.95	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.83	2	-	48.43	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-58.06	2	1.12	40.32	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2496.376	-46.9	2	-	50.36	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.584	-57.21	2	1.12	41.17	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-50.18	2	-	47.08	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.82	2	1.12	40.56	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.11	2	-	46.15	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.73	2	1.12	39.65	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2343.6	-47.29	2	-	49.97	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2378.64	-57.83	2	1.12	40.55	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-48.66	2	-	48.6	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.75	2	1.12	39.63	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.12	2	-	48.14	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.15	2	1.12	41.23	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2486.608	-47.52	2	-	49.74	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.512	-57.15	2	1.12	41.23	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.97	2	-	46.29	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-58.13	2	1.12	40.25	Average	54	Pass

