

Appendix A: Test Results

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Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	15.04	8.23	2.39
NVNT	BLE 1M	2440	Ant1	15.04	8.23	2.39
NVNT	BLE 1M	2480	Ant1	15.04	8.23	2.39
NVNT	BLE 2M	2402	Ant1	8.13	10.9	4.78
NVNT	BLE 2M	2440	Ant1	8.17	10.88	4.76
NVNT	BLE 2M	2480	Ant1	8.13	10.9	4.78

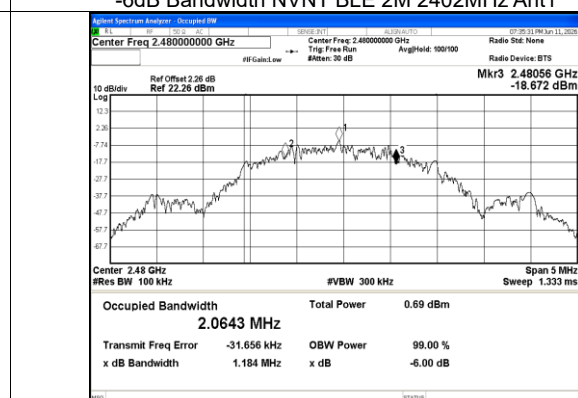
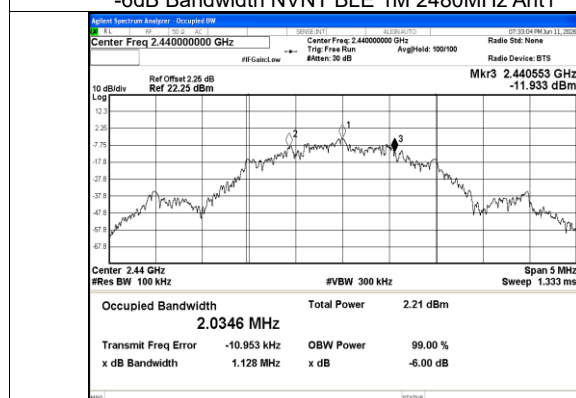
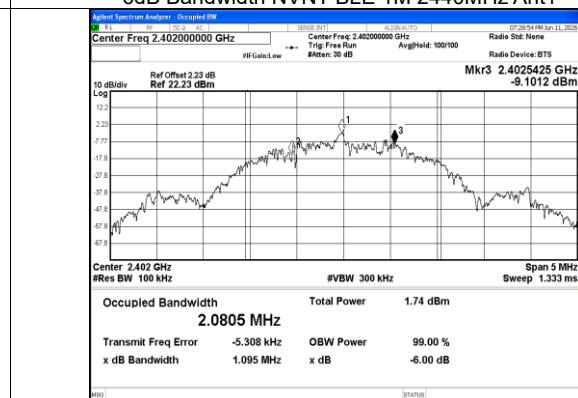
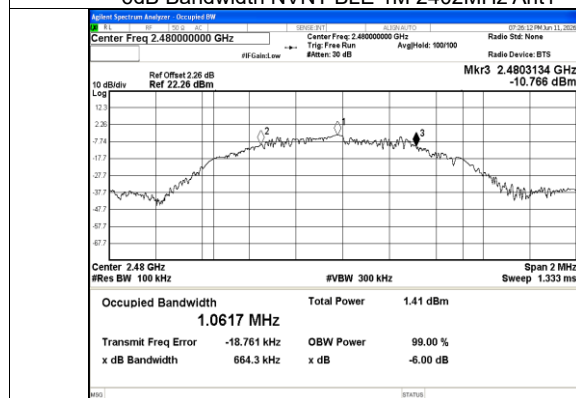
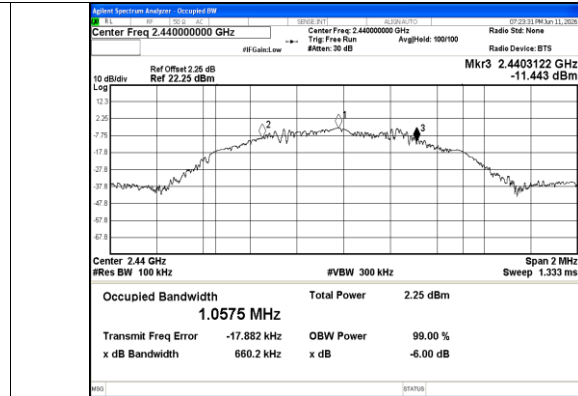
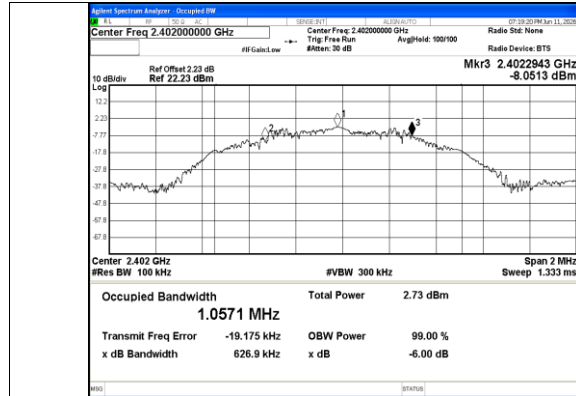


Maximum Peak Conducted Output Power

Condi tion	Mod e	Frequen cy (MHz)	Anten na	Conduct ed Power (dBm)	Total Conduct ed Power (dBm)	Total Conduct ed Power (W)	Gai n (dB i)	eirp (dB m)	eirp (W)	Limit Conducted(d Bm)	Limi t EIR P (dB m)	Verdi ct
NVNT	BLE 1M	2402	Ant1	-2.41	-2.41	0.00057	- 0.3 5	-2.76	0.000 53	30	36	Pass
NVNT	BLE 1M	2440	Ant1	-2.88	-2.88	0.00052	- 0.3 5	-3.23	0.000 48	30	36	Pass
NVNT	BLE 1M	2480	Ant1	-3.54	-3.54	0.00044	- 0.3 5	-3.89	0.000 41	30	36	Pass
NVNT	BLE 2M	2402	Ant1	-2.41	-2.41	0.00057	- 0.3 5	-2.76	0.000 53	30	36	Pass
NVNT	BLE 2M	2440	Ant1	-2.89	-2.89	0.00051	- 0.3 5	-3.24	0.000 47	30	36	Pass
NVNT	BLE 2M	2480	Ant1	-3.54	-3.54	0.00044	- 0.3 5	-3.89	0.000 41	30	36	Pass

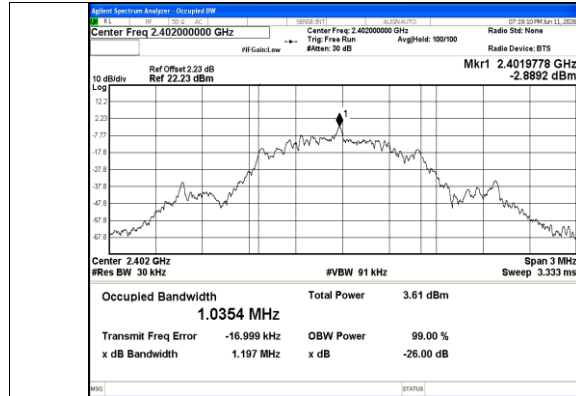
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.6269	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.6602	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.6643	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.095	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.128	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.184	0.5	Pass

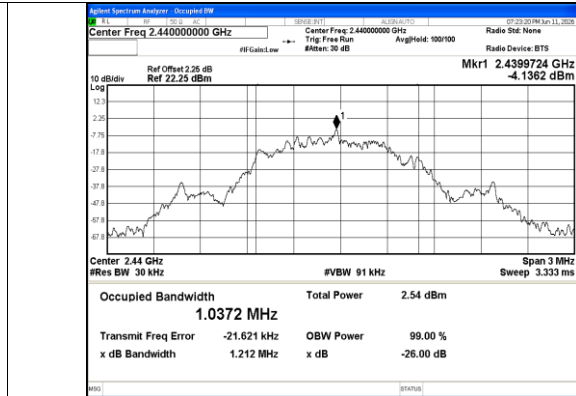


Occupied Channel Bandwidth

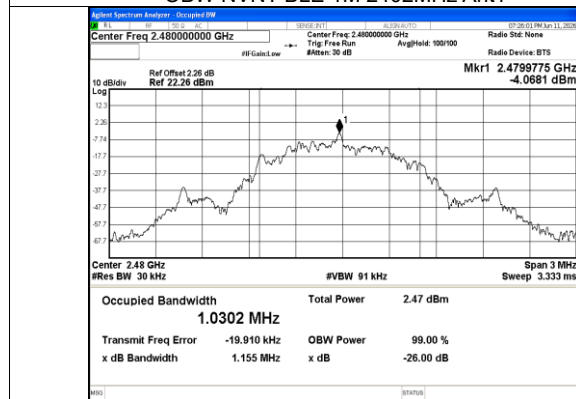
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.0354
NVNT	BLE 1M	2440	Ant1	1.0372
NVNT	BLE 1M	2480	Ant1	1.0302
NVNT	BLE 2M	2402	Ant1	2.0227
NVNT	BLE 2M	2440	Ant1	2.0567
NVNT	BLE 2M	2480	Ant1	2.0826



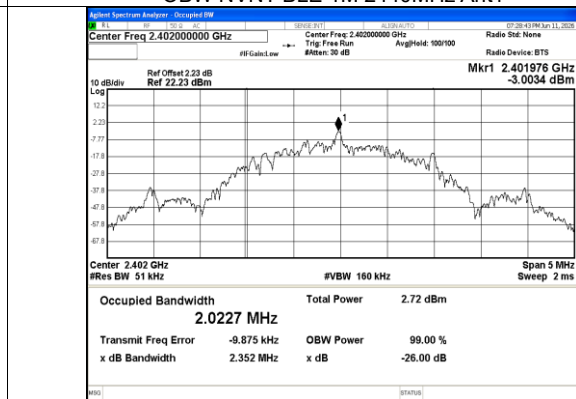
OBW NVNT BLE 1M 2402MHz Ant1



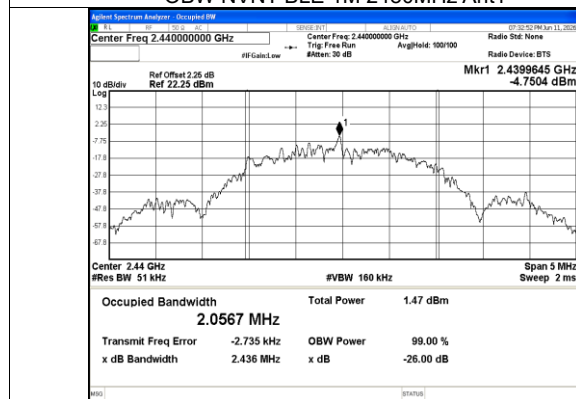
OBW NVNT BLE 1M 2440MHz Ant1



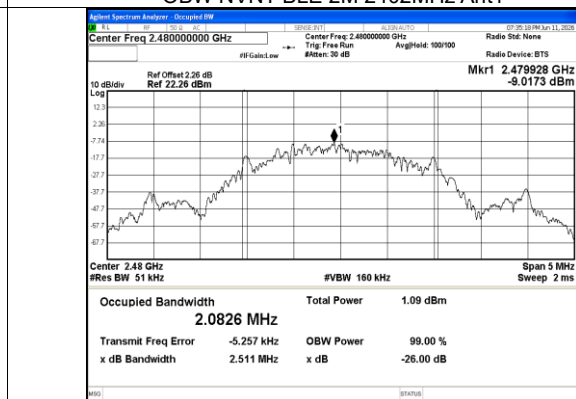
OBW NVNT BLE 1M 2480MHz Ant1



OBW NVNT BLE 2M 2402MHz Ant1



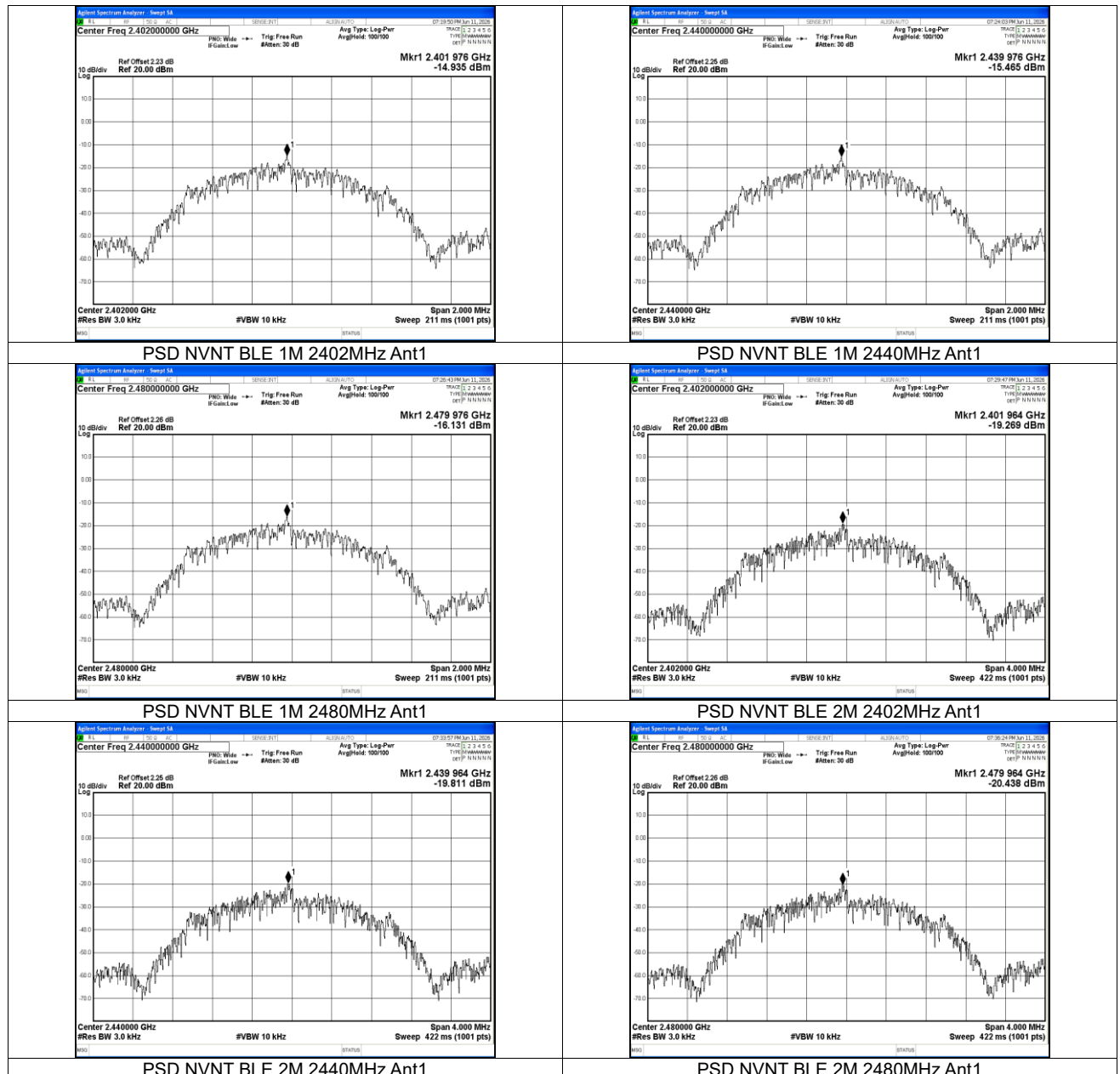
OBW NVNT BLE 2M 2440MHz Ant1



OBW NVNT BLE 2M 2480MHz Ant1

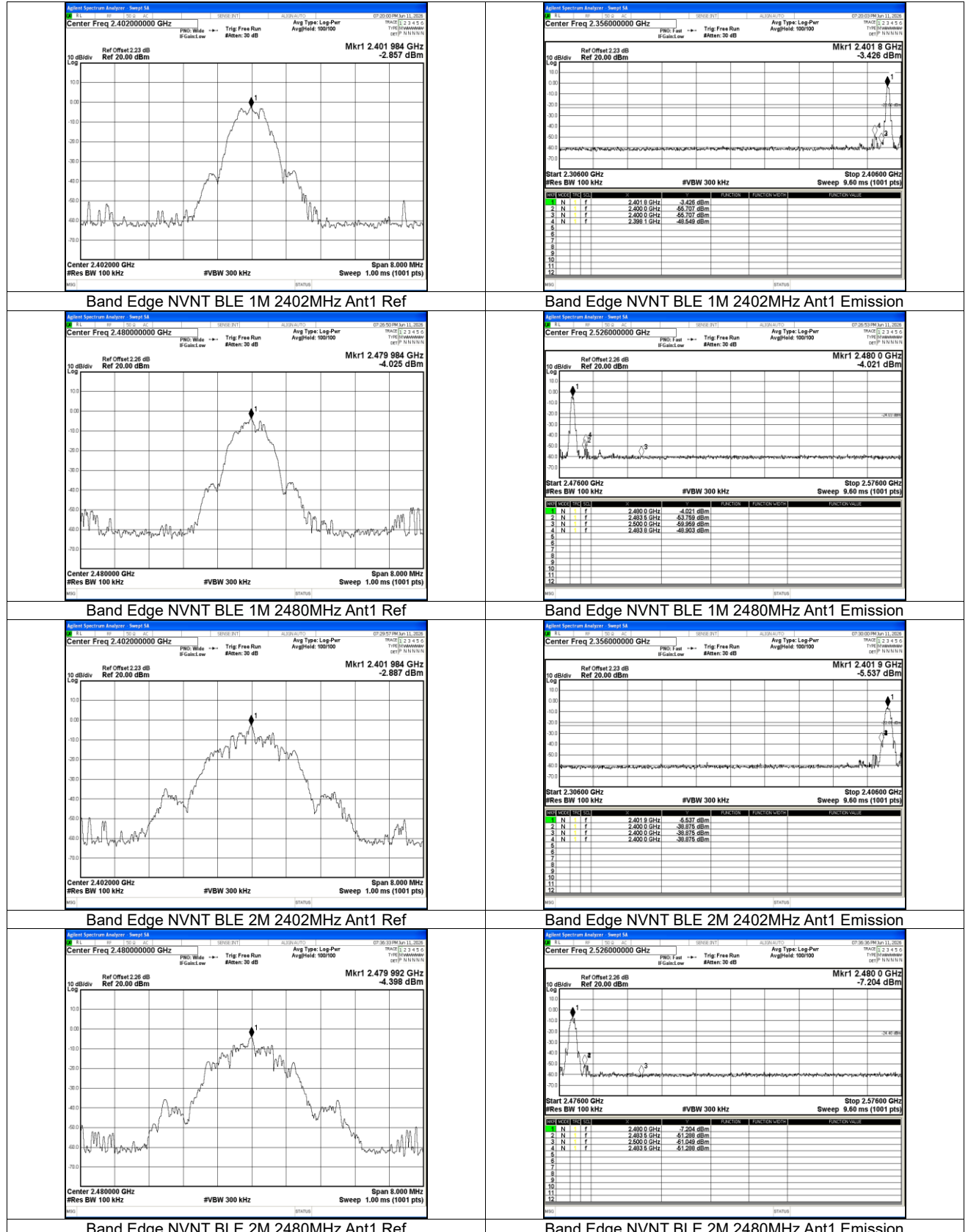
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-14.94	-14.94	8	Pass
NVNT	BLE 1M	2440	Ant1	-15.47	-15.47	8	Pass
NVNT	BLE 1M	2480	Ant1	-16.13	-16.13	8	Pass
NVNT	BLE 2M	2402	Ant1	-19.27	-19.27	8	Pass
NVNT	BLE 2M	2440	Ant1	-19.81	-19.81	8	Pass
NVNT	BLE 2M	2480	Ant1	-20.44	-20.44	8	Pass



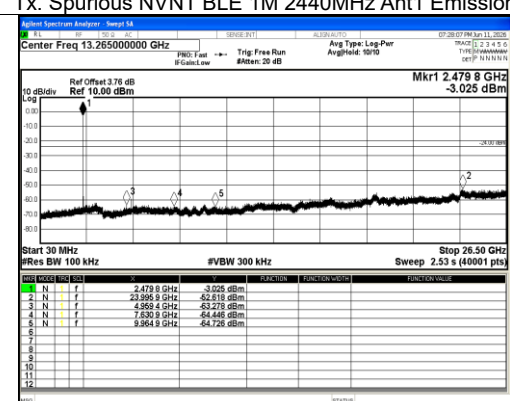
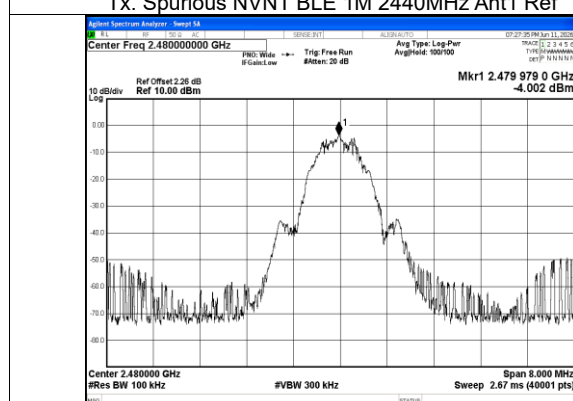
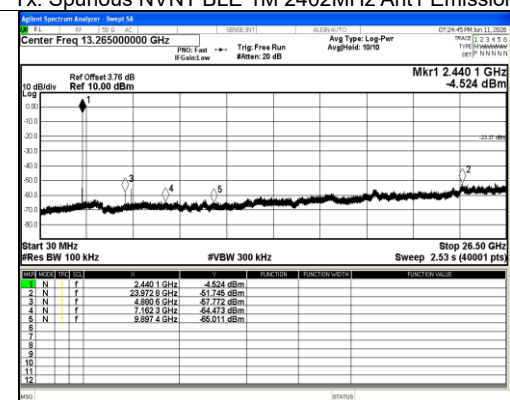
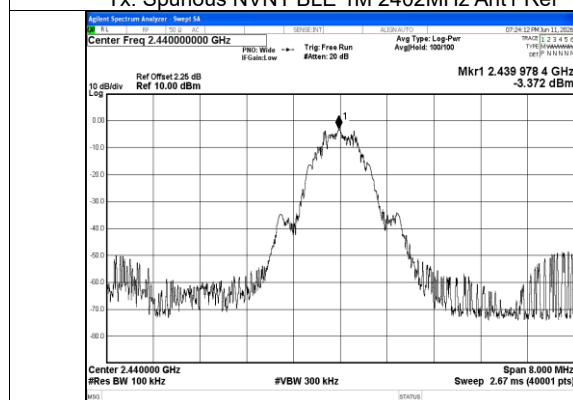
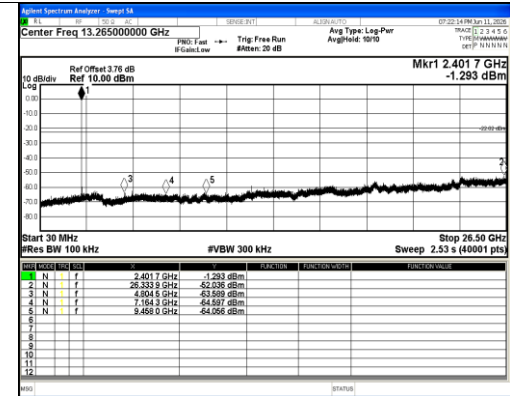
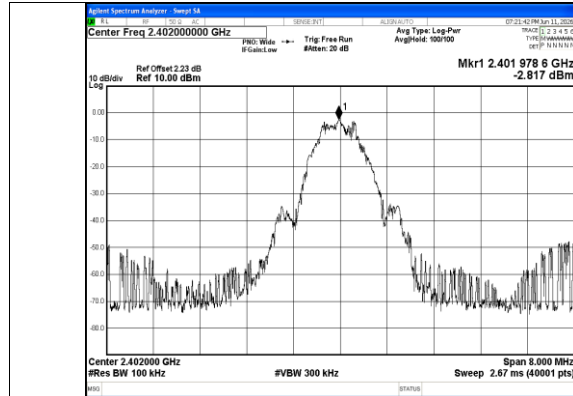
Band Edge

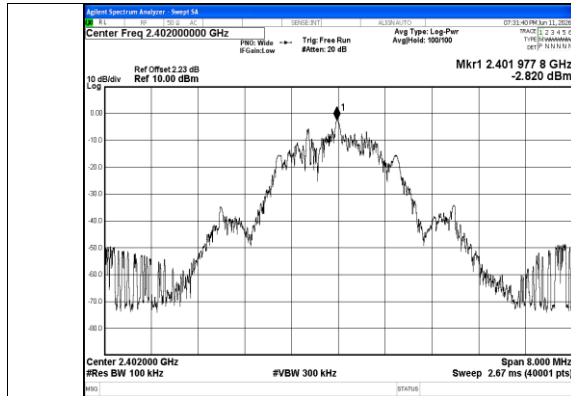
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-45.68	-20	Pass
NVNT	BLE 1M	2480	Ant1	-44.88	-20	Pass
NVNT	BLE 2M	2402	Ant1	-35.98	-20	Pass
NVNT	BLE 2M	2480	Ant1	-46.88	-20	Pass



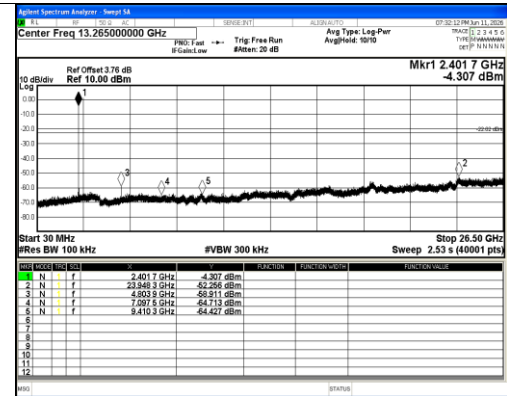
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-49.21	-20	Pass
NVNT	BLE 1M	2440	Ant1	-48.37	-20	Pass
NVNT	BLE 1M	2480	Ant1	-48.61	-20	Pass
NVNT	BLE 2M	2402	Ant1	-49.43	-20	Pass
NVNT	BLE 2M	2440	Ant1	-48.8	-20	Pass
NVNT	BLE 2M	2480	Ant1	-47.23	-20	Pass

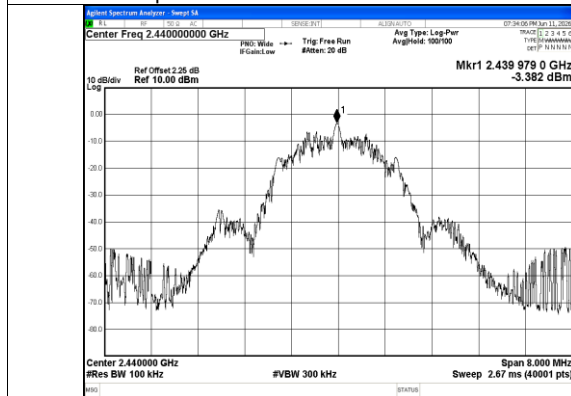




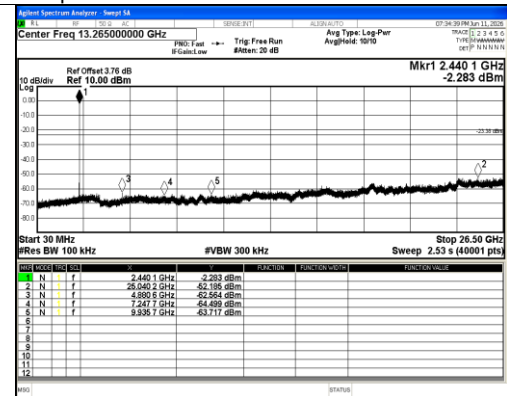
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



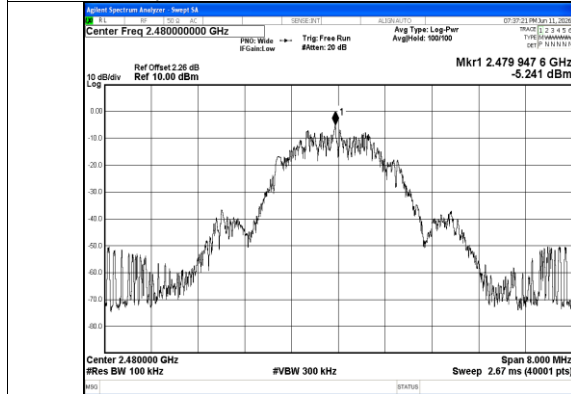
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



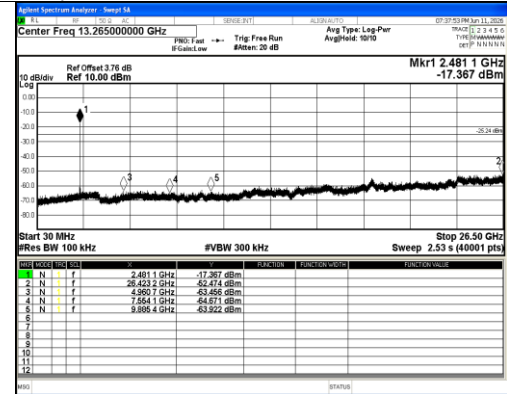
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



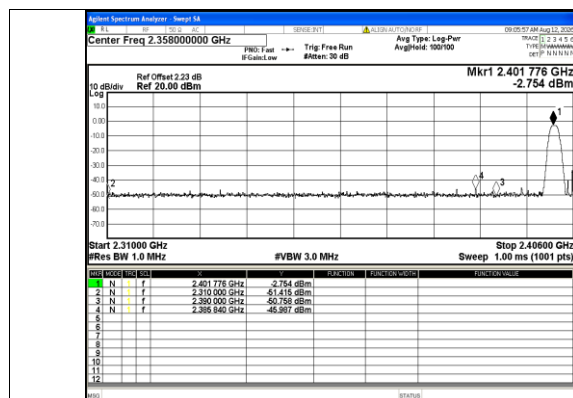
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



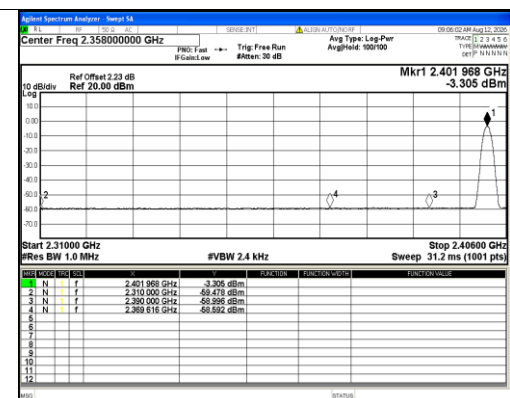
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission

Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-51.41	2	45.85	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-59.47	2	37.79	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2385.84	-45.98	2	51.28	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2369.616	-58.59	2	38.67	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-51.4	2	45.86	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-59	2	38.26	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-49.48	2	47.78	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-58.95	2	38.31	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.872	-33.29	2	63.97	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2494.384	-58.35	2	38.91	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-50.35	2	46.91	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.93	2	38.33	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2310	-51.18	2	46.08	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2310	-58.86	2	38.4	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2386.896	-45.99	2	51.27	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2389.584	-58.02	2	39.24	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2390	-50.57	2	46.69	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2390	-58.67	2	38.59	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-48.84	2	48.42	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-58.14	2	39.12	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2484.064	-33.79	2	63.47	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2499.544	-57.82	2	39.44	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2500	-49.71	2	47.55	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2500	-58.39	2	38.87	Average	54	Pass



Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1M 2402MHz Ant1 Average

