

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	55.6	2.55	2.88
NVNT	BLE 1M	2440	Ant1	55.6	2.55	2.88
NVNT	BLE 1M	2480	Ant1	55.6	2.55	2.88
NVNT	BLE 2M	2402	Ant1	29.76	5.26	5.38
NVNT	BLE 2M	2440	Ant1	29.76	5.26	5.38
NVNT	BLE 2M	2480	Ant1	29.76	5.26	5.38

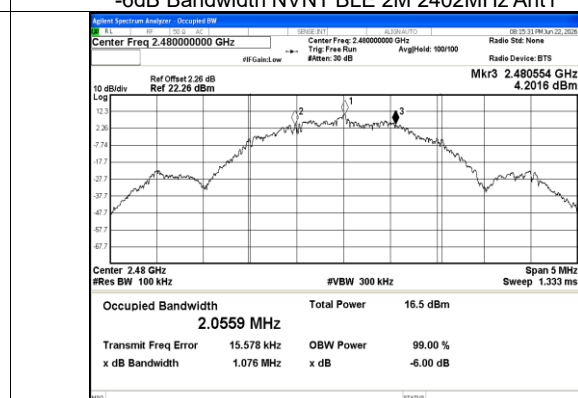
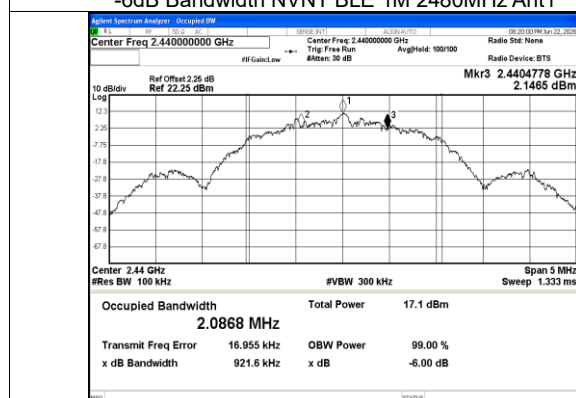
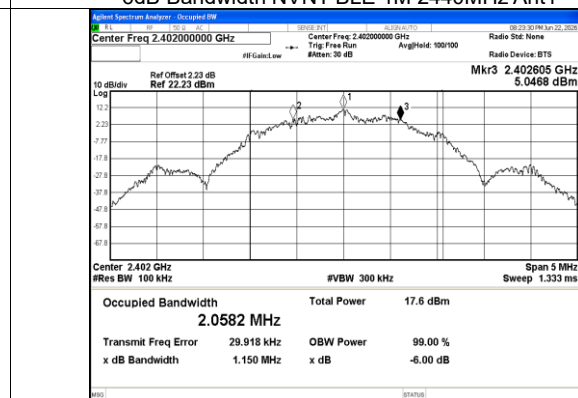
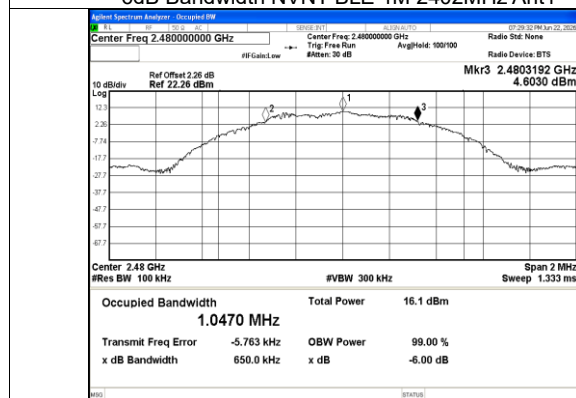
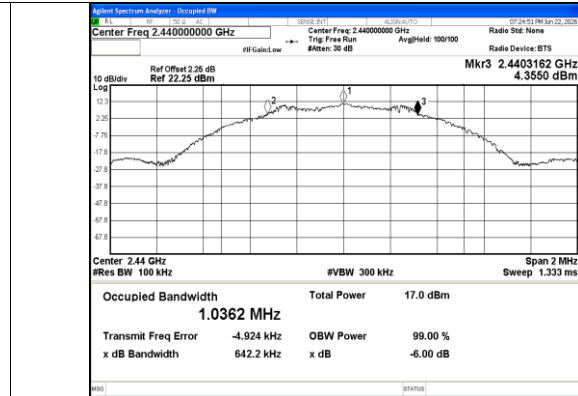
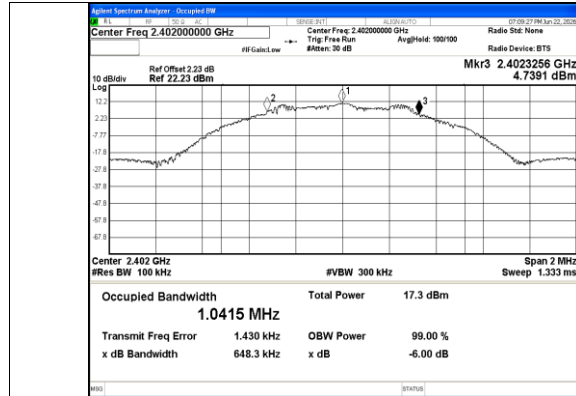


Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Conducted Power (W)	Gain (dBi)	eirp (dBm)	eirp (W)	Limit Conducted(dBm)	Limit EIRP (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	11.56	0.01432	3.99	15.55	0.03589	30	36	Pass
NVNT	BLE 1M	2440	Ant1	11.21	0.01321	3.99	15.2	0.03311	30	36	Pass
NVNT	BLE 1M	2480	Ant1	10.4	0.01096	3.99	14.39	0.02748	30	36	Pass
NVNT	BLE 2M	2402	Ant1	11.87	0.01538	3.99	15.86	0.03855	30	36	Pass
NVNT	BLE 2M	2440	Ant1	11.5	0.01413	3.99	15.49	0.0354	30	36	Pass
NVNT	BLE 2M	2480	Ant1	10.77	0.01194	3.99	14.76	0.02992	30	36	Pass

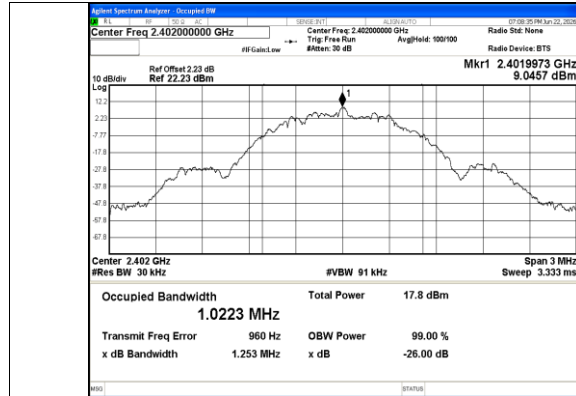
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.6483	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.6422	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.65	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.15	0.5	Pass
NVNT	BLE 2M	2440	Ant1	0.9216	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.076	0.5	Pass

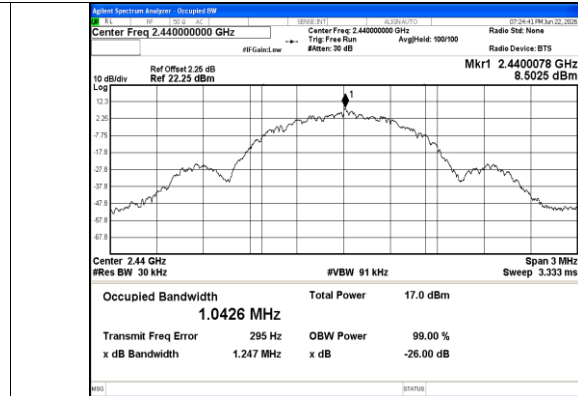


Occupied Channel Bandwidth

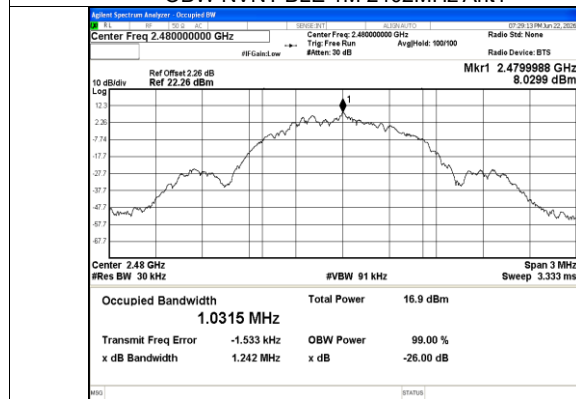
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.0223
NVNT	BLE 1M	2440	Ant1	1.0426
NVNT	BLE 1M	2480	Ant1	1.0315
NVNT	BLE 2M	2402	Ant1	2.0469
NVNT	BLE 2M	2440	Ant1	2.0639
NVNT	BLE 2M	2480	Ant1	2.0504



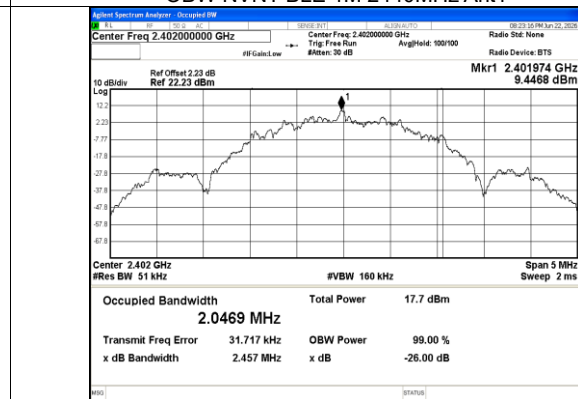
OBW NVNT BLE 1M 2402MHz Ant1



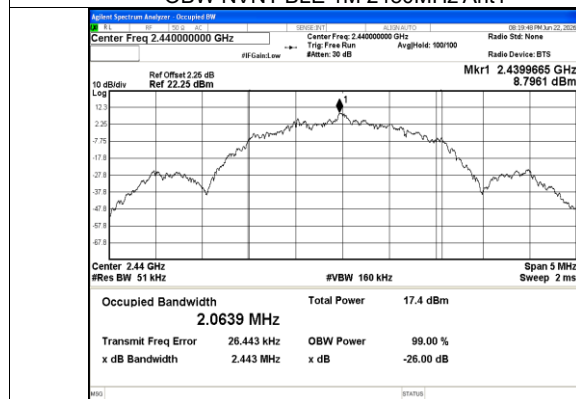
OBW NVNT BLE 1M 2440MHz Ant1



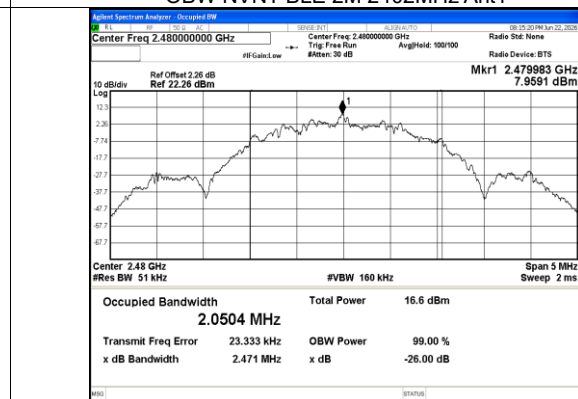
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OBW NVNT BLE 2M 2402MHz Ant1



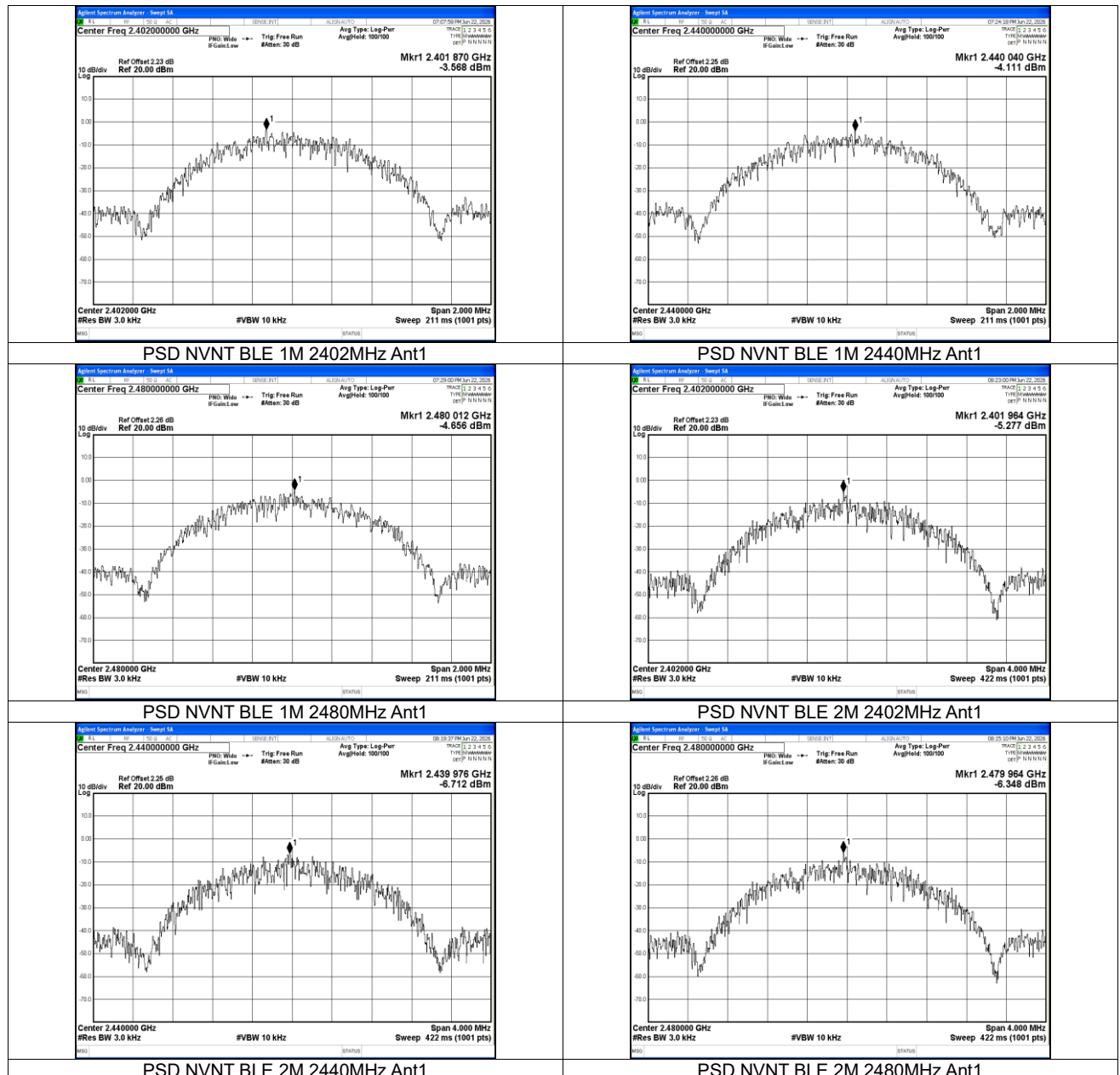
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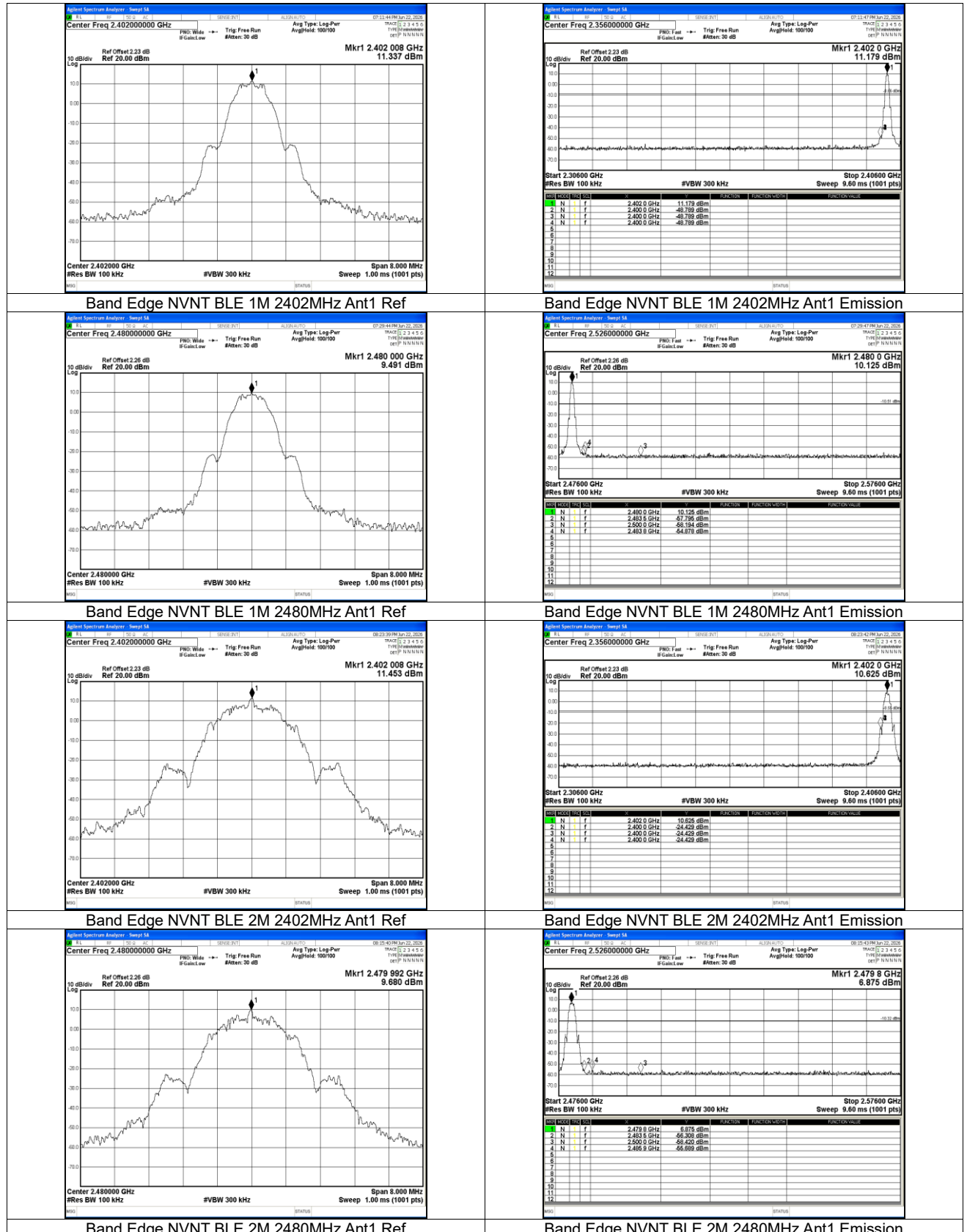
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-3.57	-3.57	8	Pass
NVNT	BLE 1M	2440	Ant1	-4.11	-4.11	8	Pass
NVNT	BLE 1M	2480	Ant1	-4.66	-4.66	8	Pass
NVNT	BLE 2M	2402	Ant1	-5.28	-5.28	8	Pass
NVNT	BLE 2M	2440	Ant1	-6.71	-6.71	8	Pass
NVNT	BLE 2M	2480	Ant1	-6.35	-6.35	8	Pass



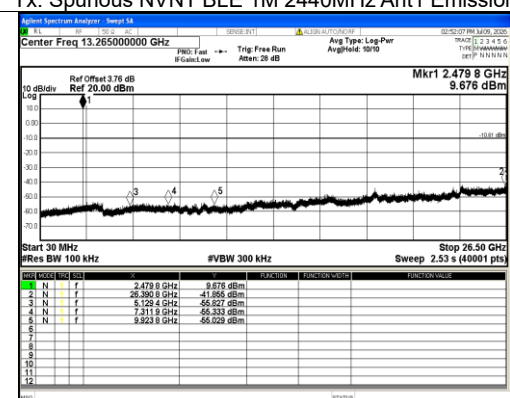
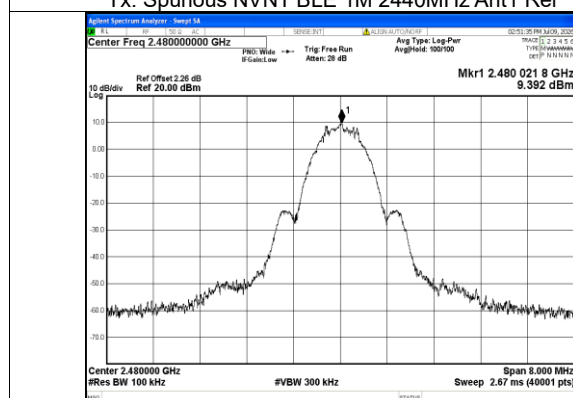
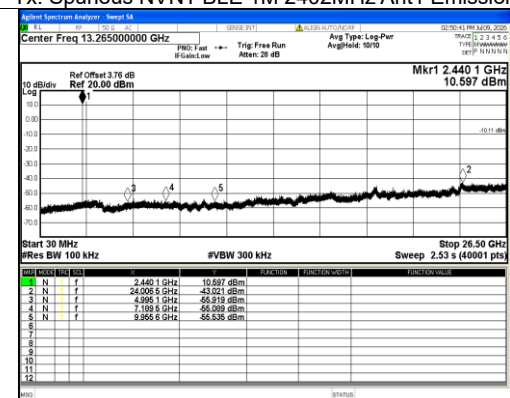
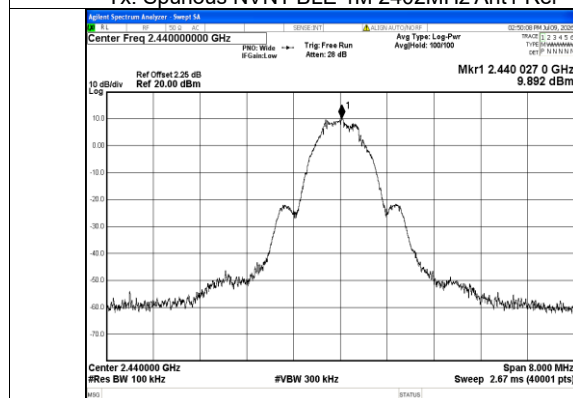
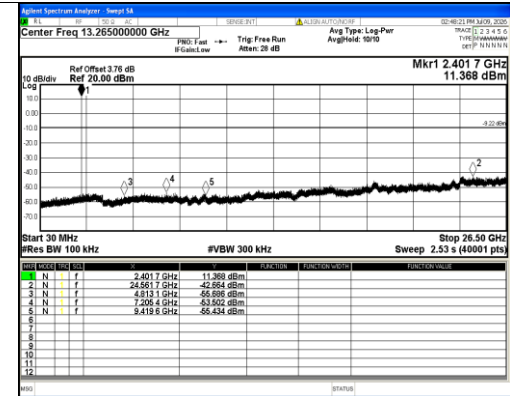
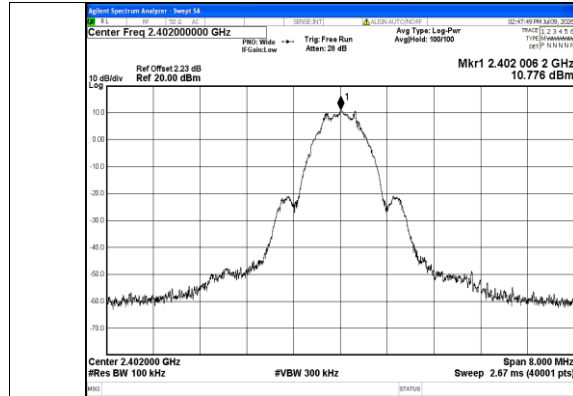
Band Edge

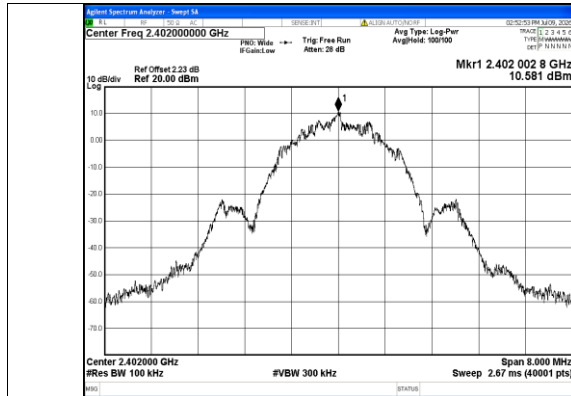
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-60.12	-20	Pass
NVNT	BLE 1M	2480	Ant1	-64.36	-20	Pass
NVNT	BLE 2M	2402	Ant1	-35.87	-20	Pass
NVNT	BLE 2M	2480	Ant1	-65.36	-20	Pass



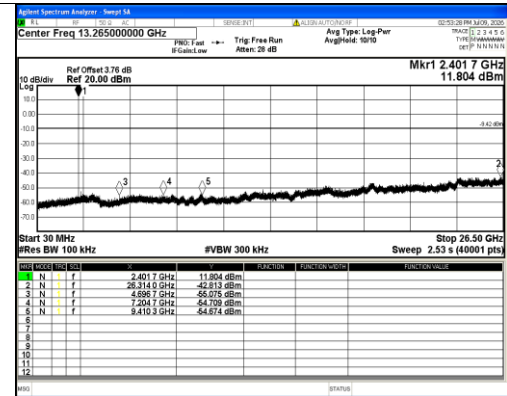
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-53.44	-20	Pass
NVNT	BLE 1M	2440	Ant1	-52.91	-20	Pass
NVNT	BLE 1M	2480	Ant1	-51.24	-20	Pass
NVNT	BLE 2M	2402	Ant1	-53.39	-20	Pass
NVNT	BLE 2M	2440	Ant1	-52.7	-20	Pass
NVNT	BLE 2M	2480	Ant1	-52.22	-20	Pass

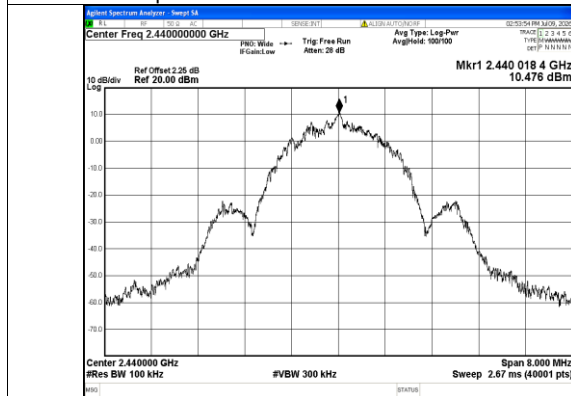




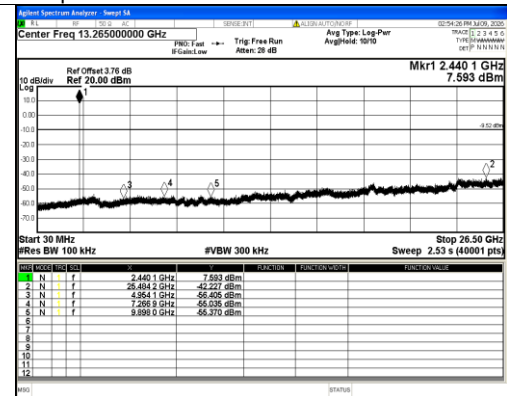
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref



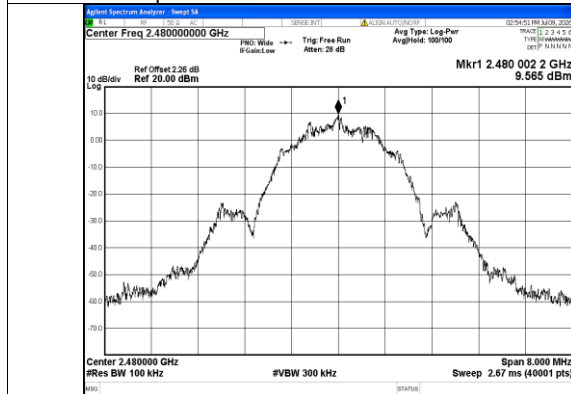
Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



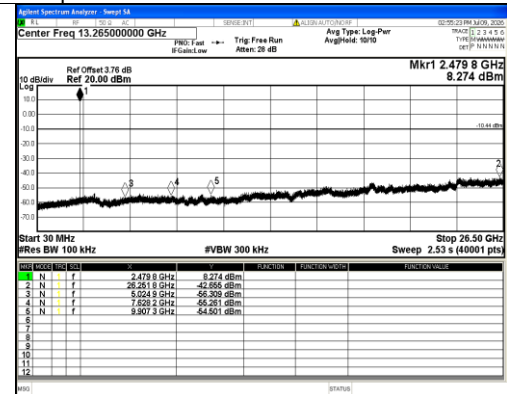
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



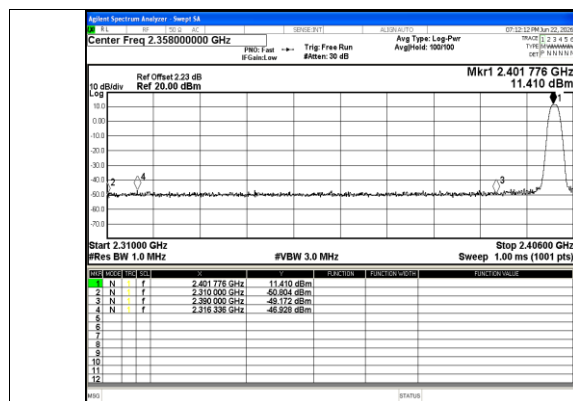
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



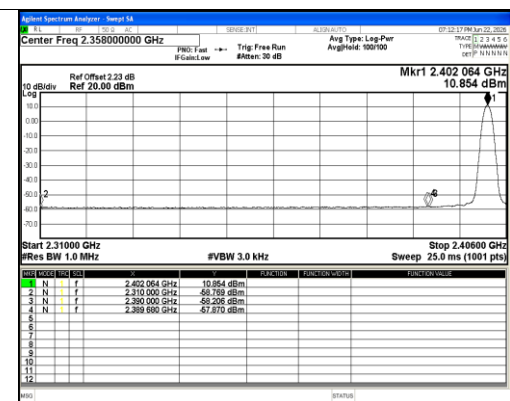
Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission

Restrict Band

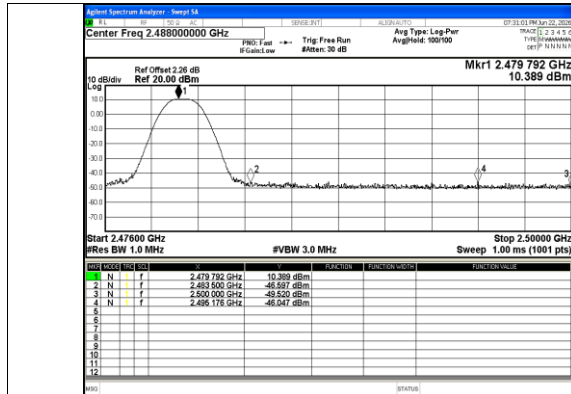
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-50.8	3.99	48.45	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-58.76	3.99	40.49	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2316.336	-46.92	3.99	52.33	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2389.68	-57.86	3.99	41.39	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-49.77	3.99	49.48	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-58.18	3.99	41.07	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-46.59	3.99	52.66	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-56.37	3.99	42.88	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2495.176	-46.04	3.99	53.21	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.728	-55.85	3.99	43.4	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-49.51	3.99	49.74	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-58.52	3.99	40.73	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2310	-49.02	3.99	50.23	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2310	-58.53	3.99	40.72	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2327.952	-46.98	3.99	52.27	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2328.624	-57.23	3.99	42.02	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2390	-48.82	3.99	50.43	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2390	-57.7	3.99	41.55	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-41.61	3.99	57.64	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-50.35	3.99	48.9	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.512	-41.61	3.99	57.64	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.512	-50.35	3.99	48.9	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2500	-50.23	3.99	49.02	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2500	-57.72	3.99	41.53	Average	54	Pass



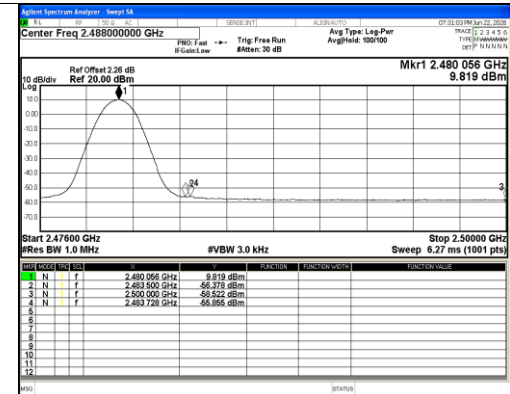
Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak



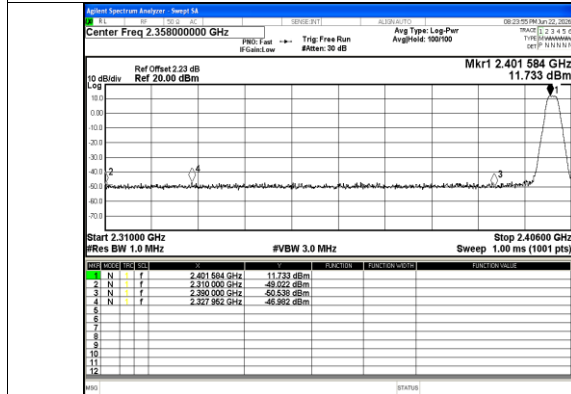
Restrict Band NVNT BLE 1M 2402MHz Ant1 Average



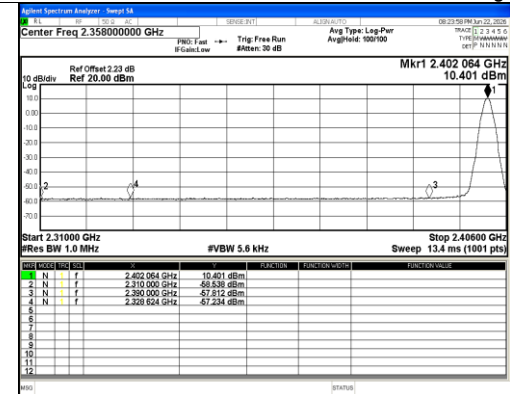
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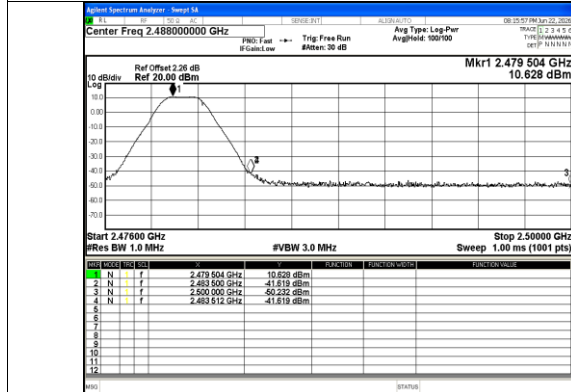
Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



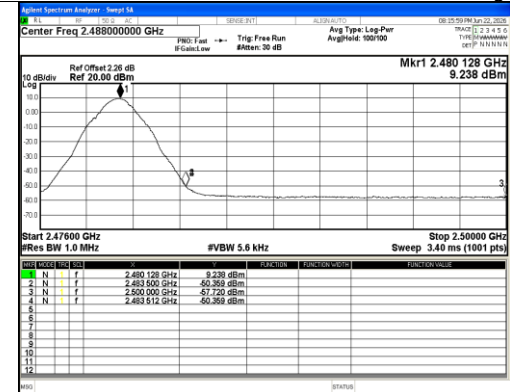
Restrict Band NVNT BLE 2M 2402MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2402MHz Ant1 Average



Restrict Band NVNT BLE 2M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2480MHz Ant1 Average