



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: NoteBook

Test Model: HT14CB12I5E01

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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B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant0	0.654	≥ 0.5	Pass
NVNT	BLE 1M	2440	Ant0	0.65	≥ 0.5	Pass
NVNT	BLE 1M	2480	Ant0	0.652	≥ 0.5	Pass
NVNT	BLE 2M	2402	Ant0	1.15	≥ 0.5	Pass
NVNT	BLE 2M	2440	Ant0	1.142	≥ 0.5	Pass
NVNT	BLE 2M	2480	Ant0	1.14	≥ 0.5	Pass

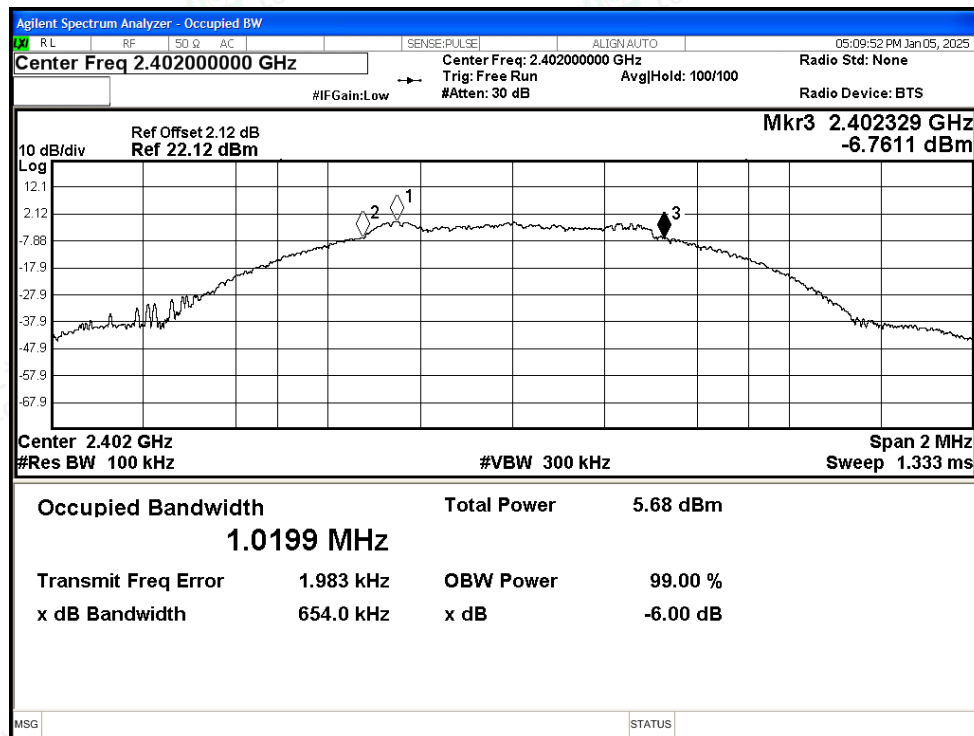


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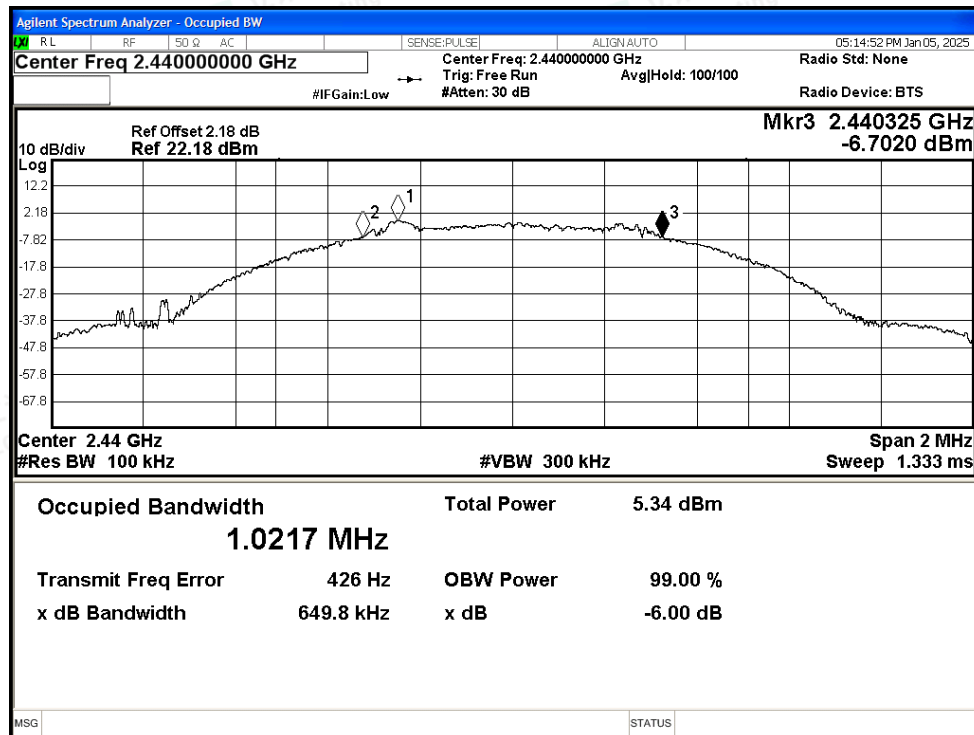


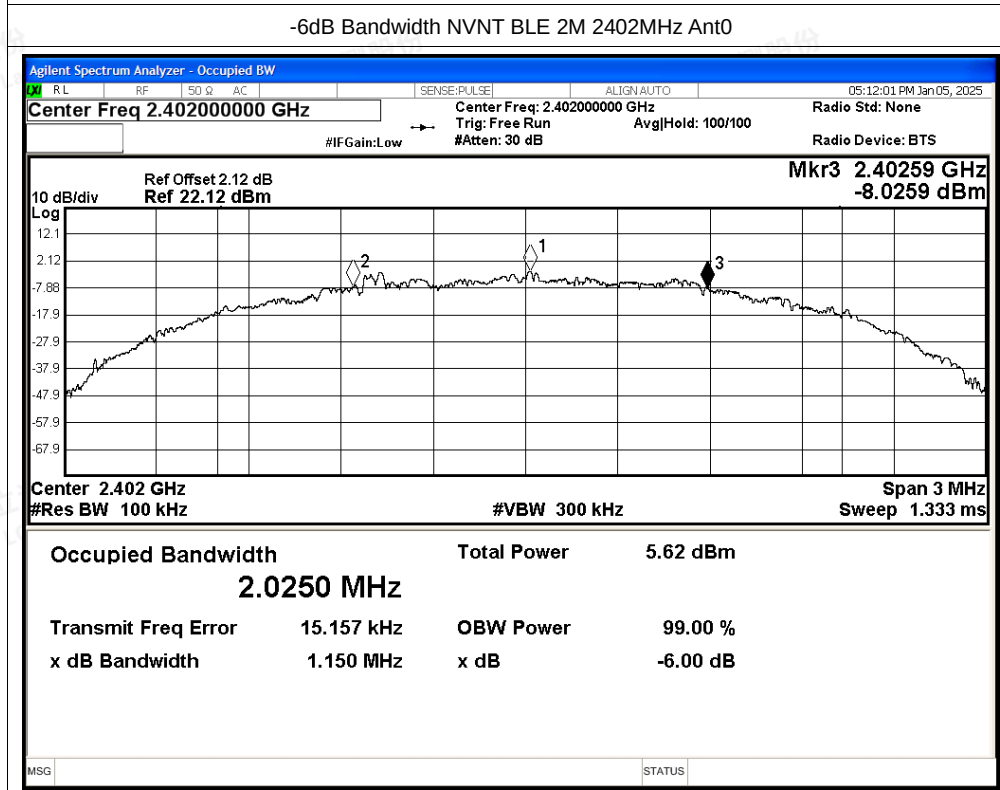
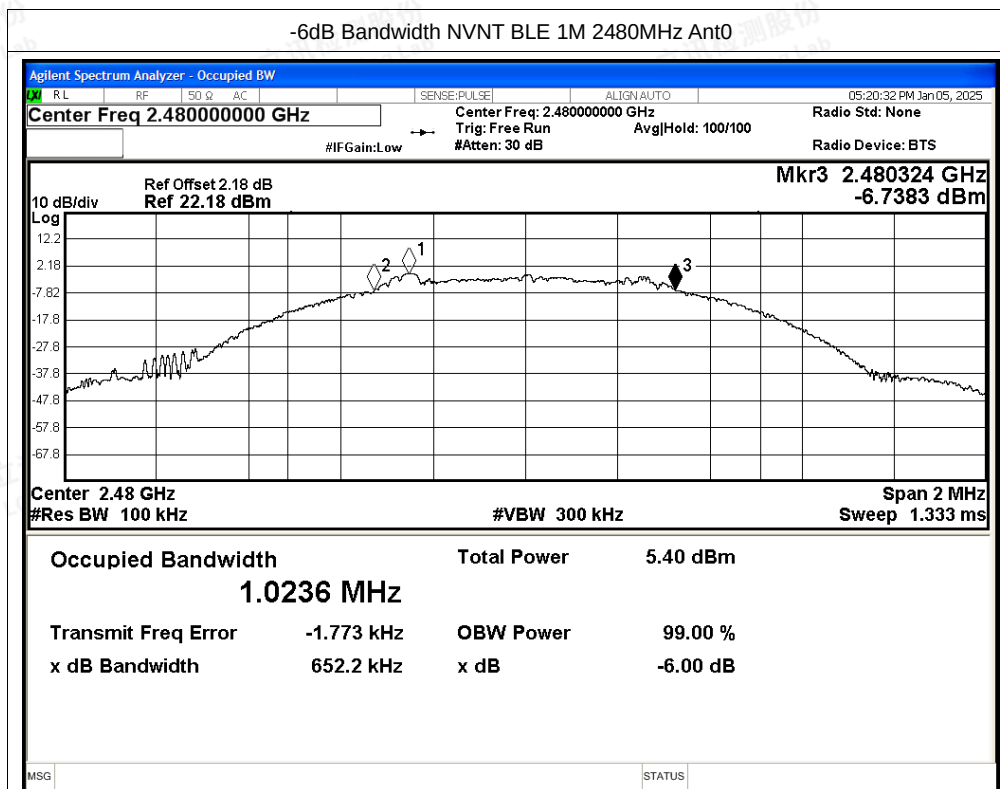
Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant0



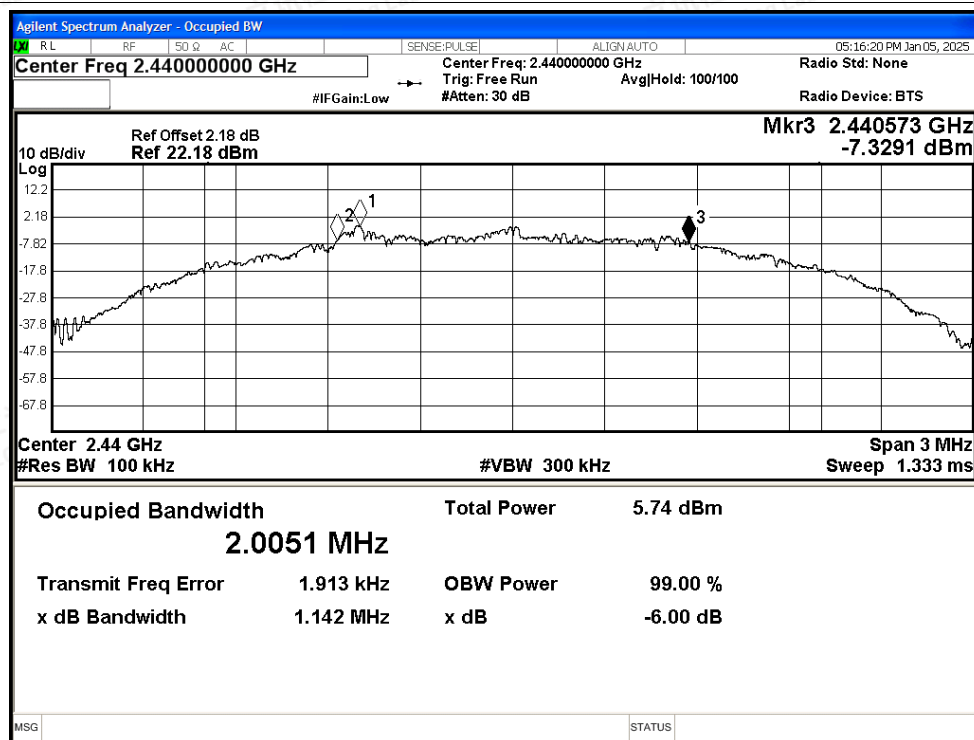
-6dB Bandwidth NVNT BLE 1M 2440MHz Ant0



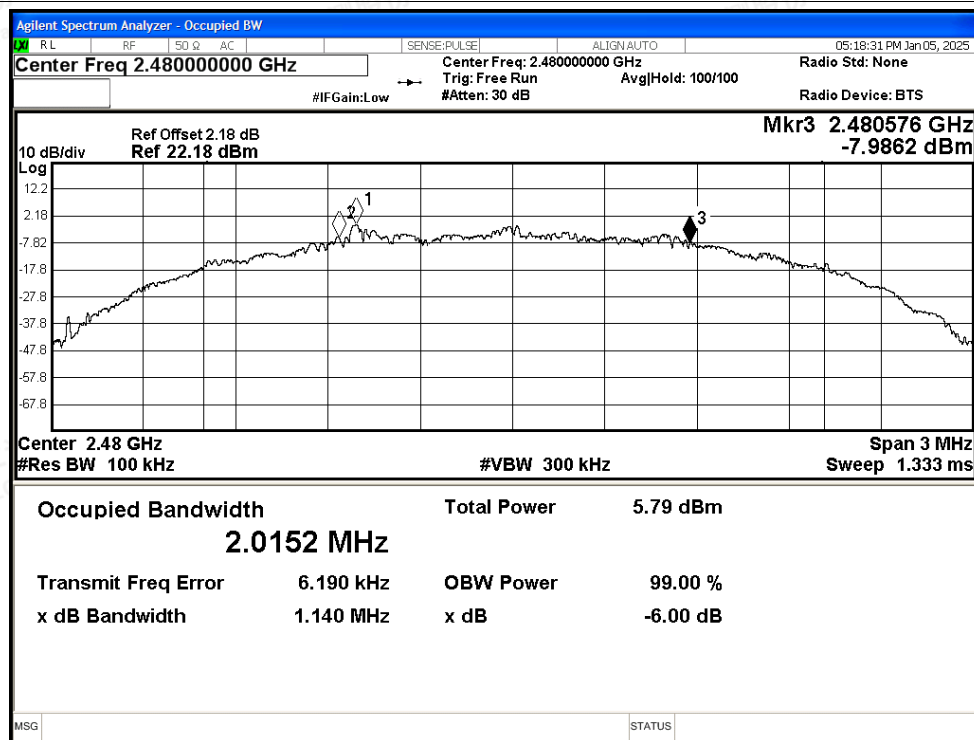




-6dB Bandwidth NVNT BLE 2M 2440MHz Ant0



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant0





B.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant0	-0.15	30	Pass
NVNT	BLE 1M	2440	Ant0	-0.42	30	Pass
NVNT	BLE 1M	2480	Ant0	-0.41	30	Pass
NVNT	BLE 2M	2402	Ant0	-0.47	30	Pass
NVNT	BLE 2M	2440	Ant0	-0.65	30	Pass
NVNT	BLE 2M	2480	Ant0	-0.59	30	Pass

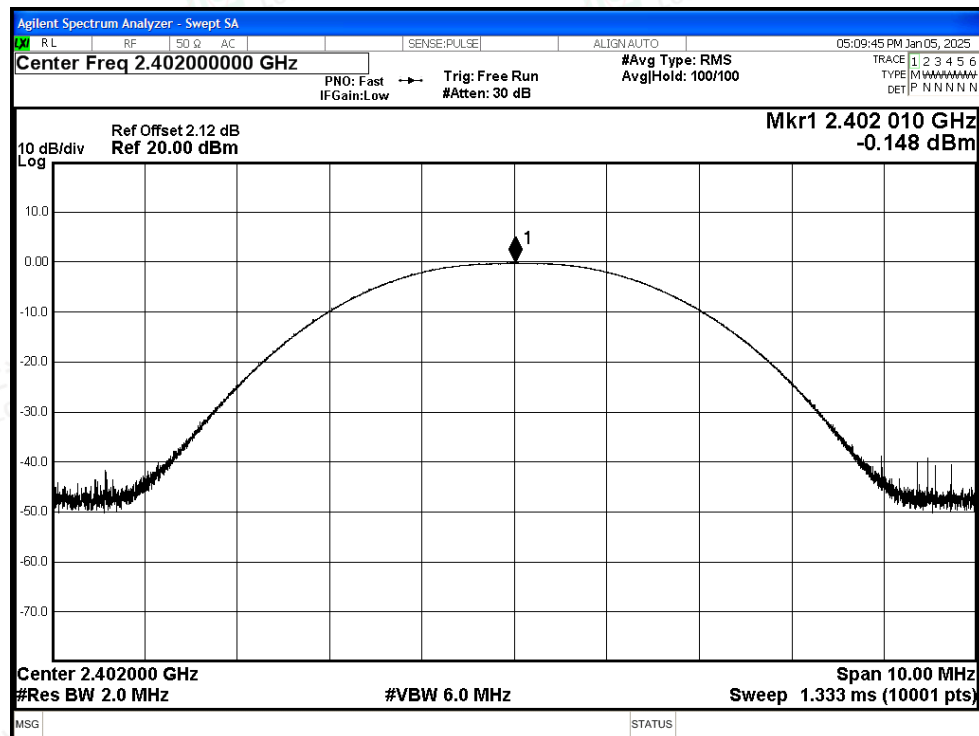


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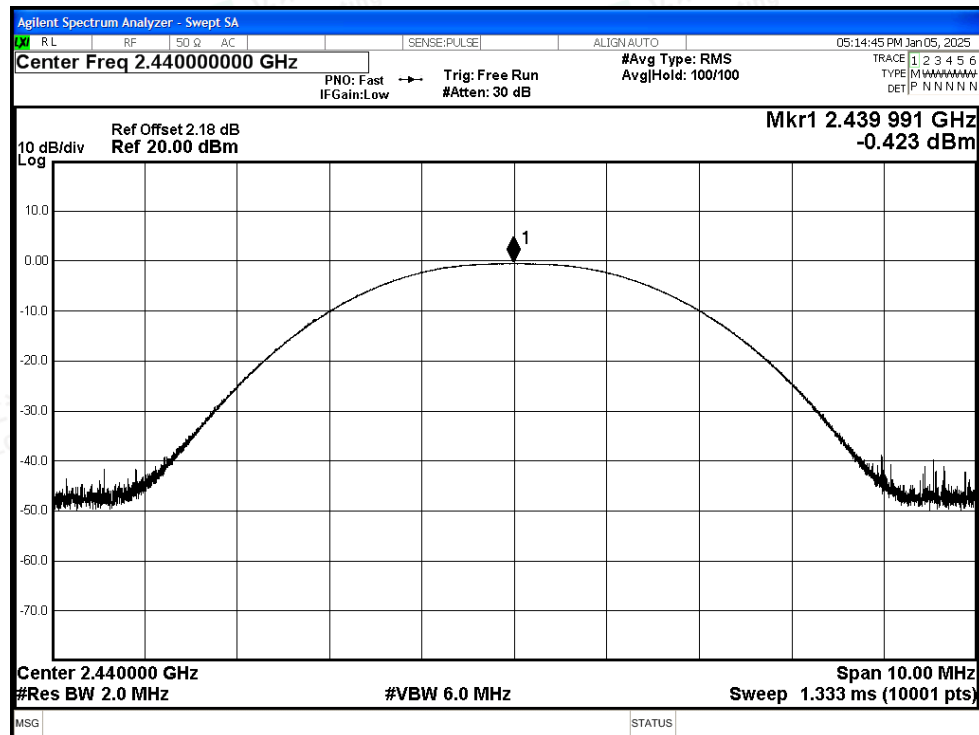


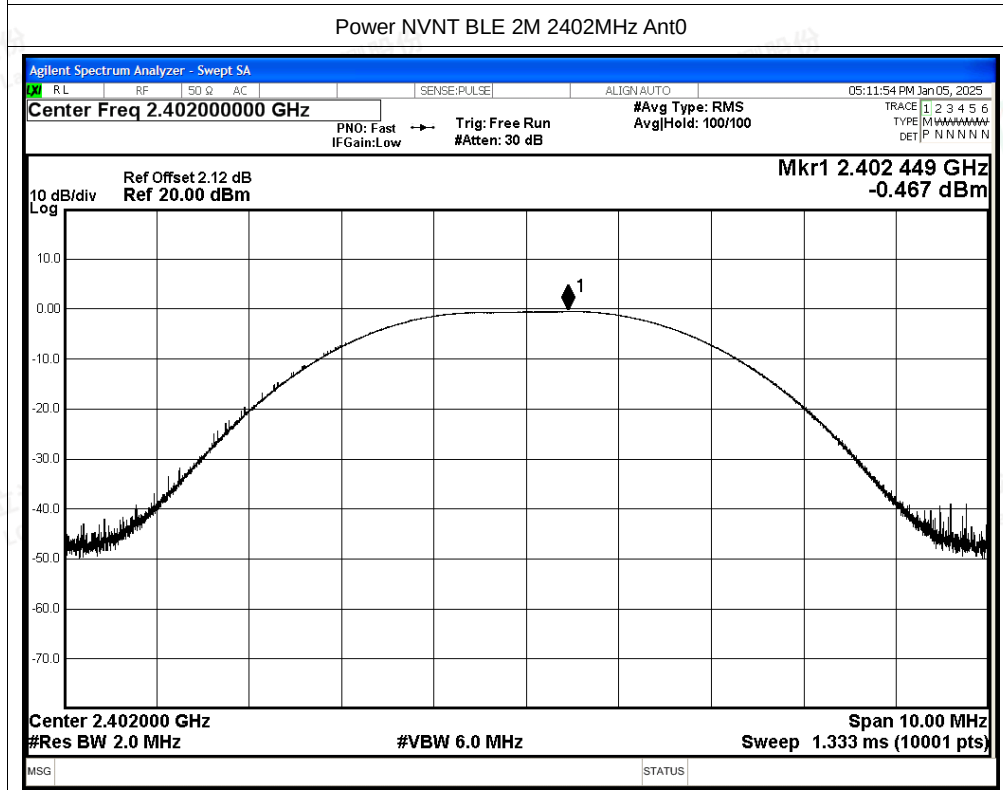
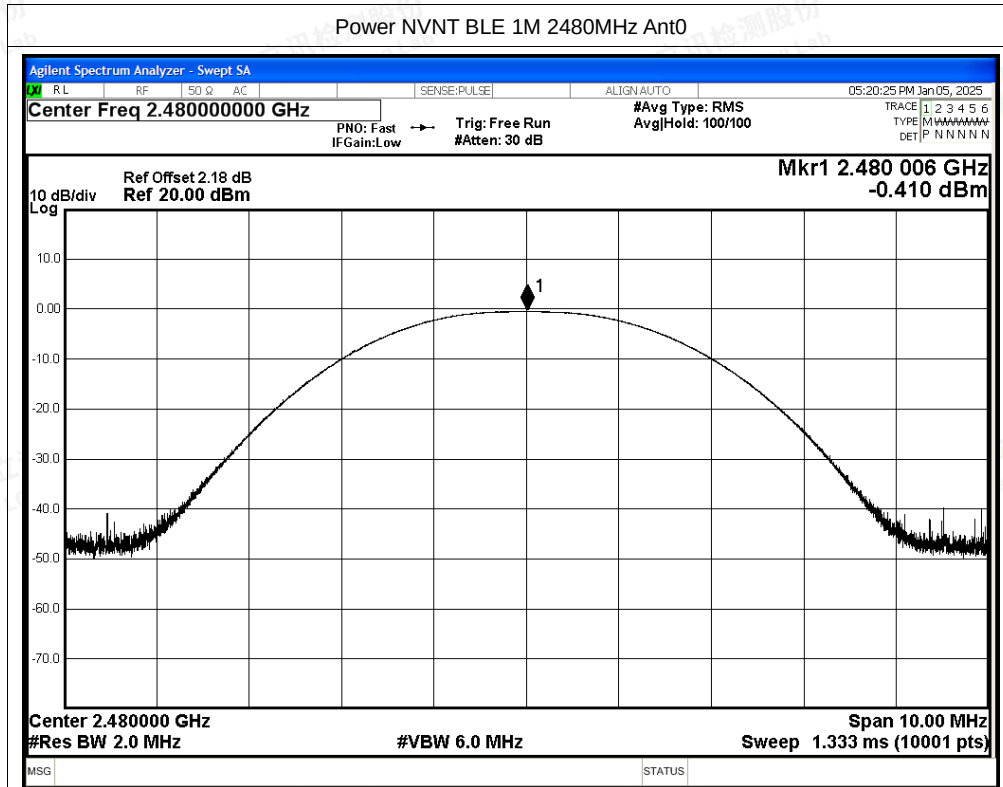
Test Graphs

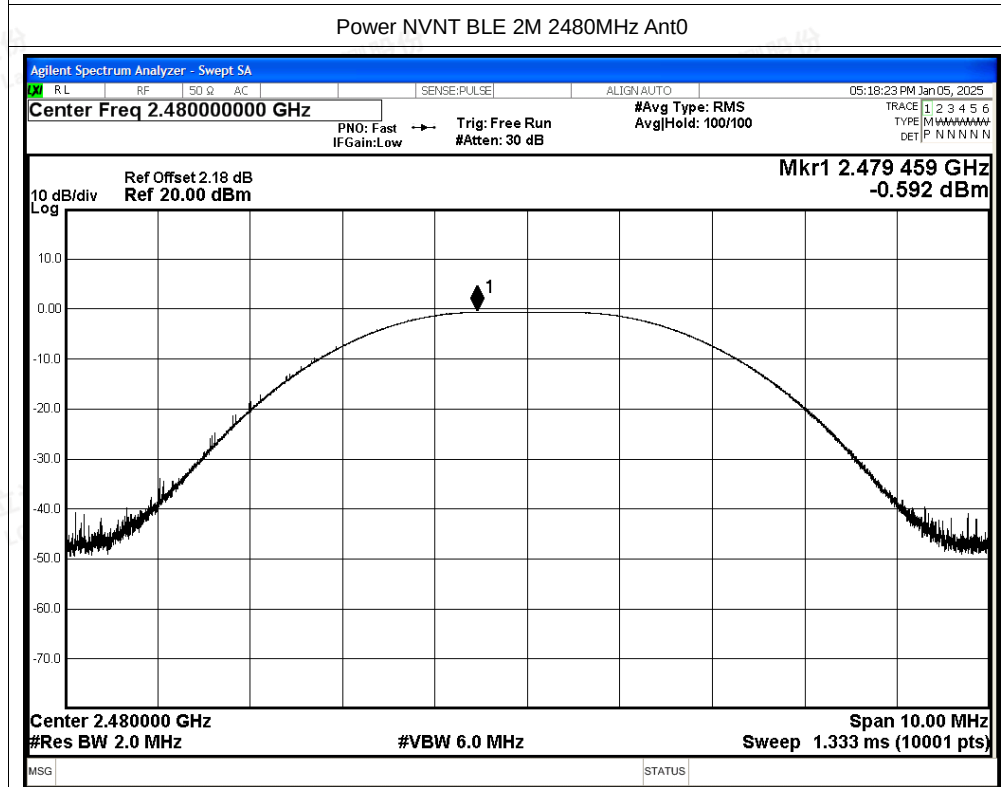
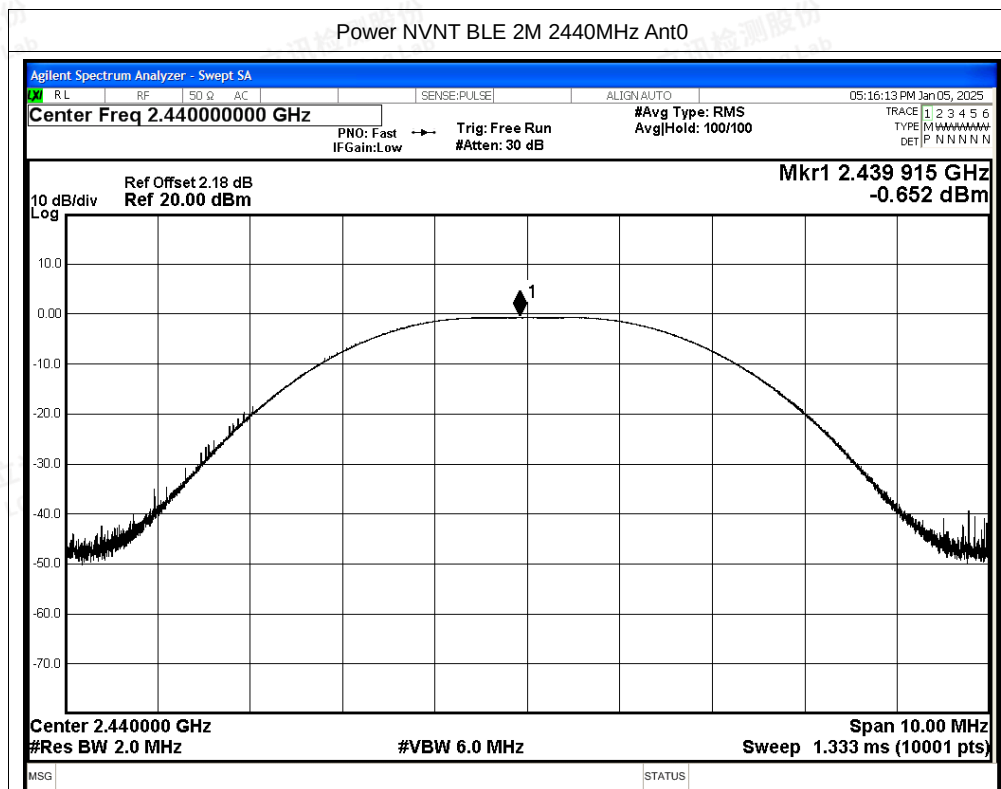
Power NVNT BLE 1M 2402MHz Ant0



Power NVNT BLE 1M 2440MHz Ant0









B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant0	-16.72	8	Pass
NVNT	BLE 1M	2440	Ant0	-17.25	8	Pass
NVNT	BLE 1M	2480	Ant0	-16.96	8	Pass
NVNT	BLE 2M	2402	Ant0	-20.09	8	Pass
NVNT	BLE 2M	2440	Ant0	-20.51	8	Pass
NVNT	BLE 2M	2480	Ant0	-20.61	8	Pass

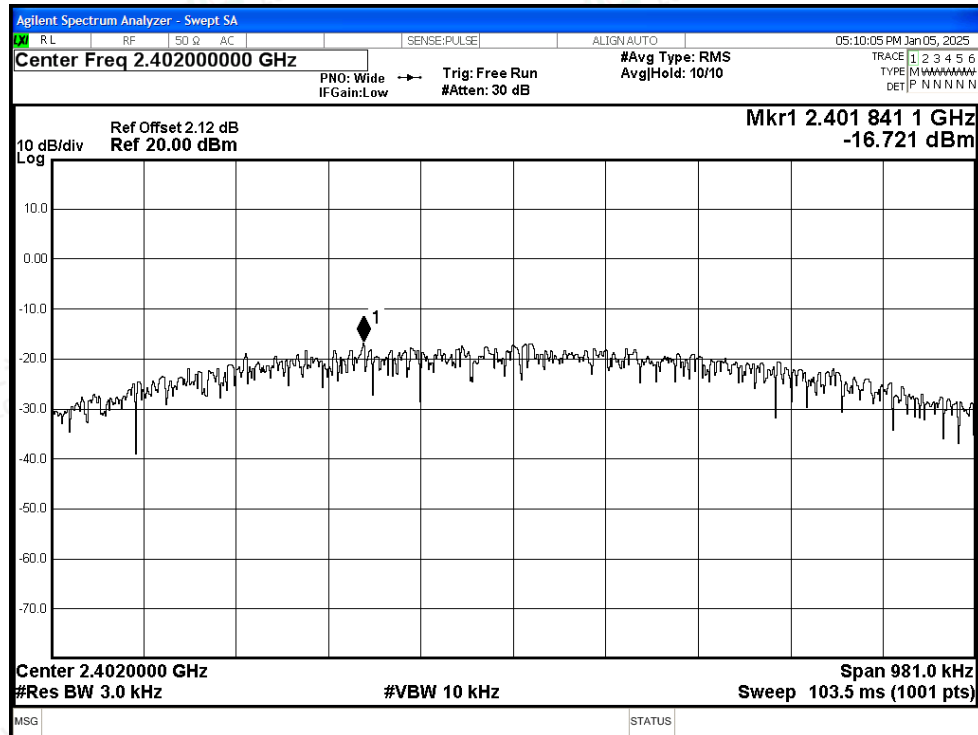


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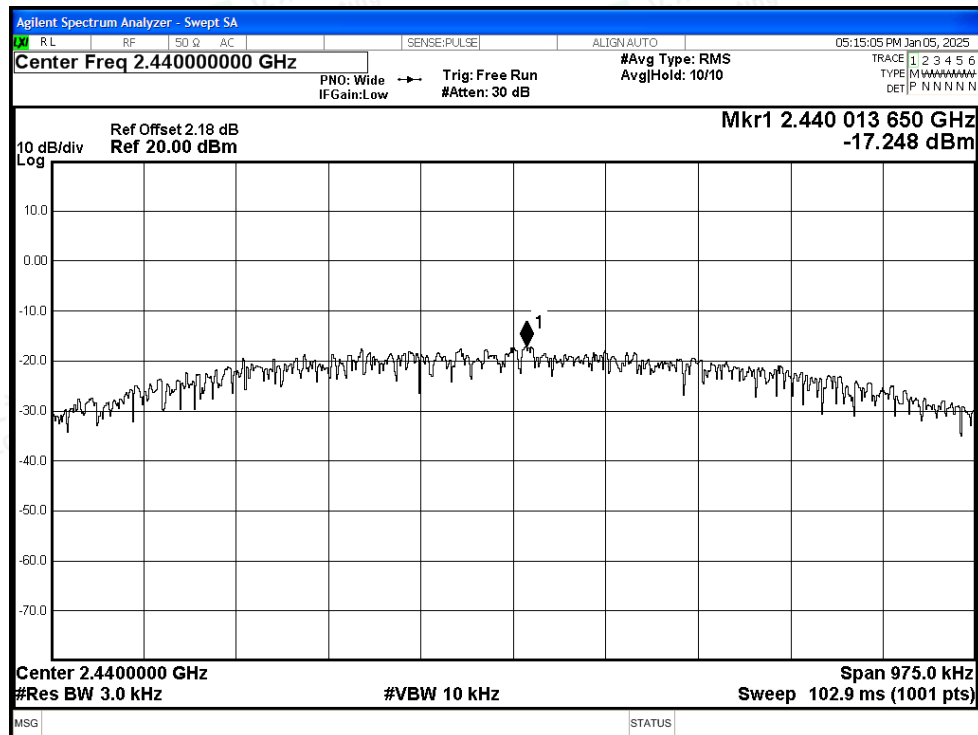


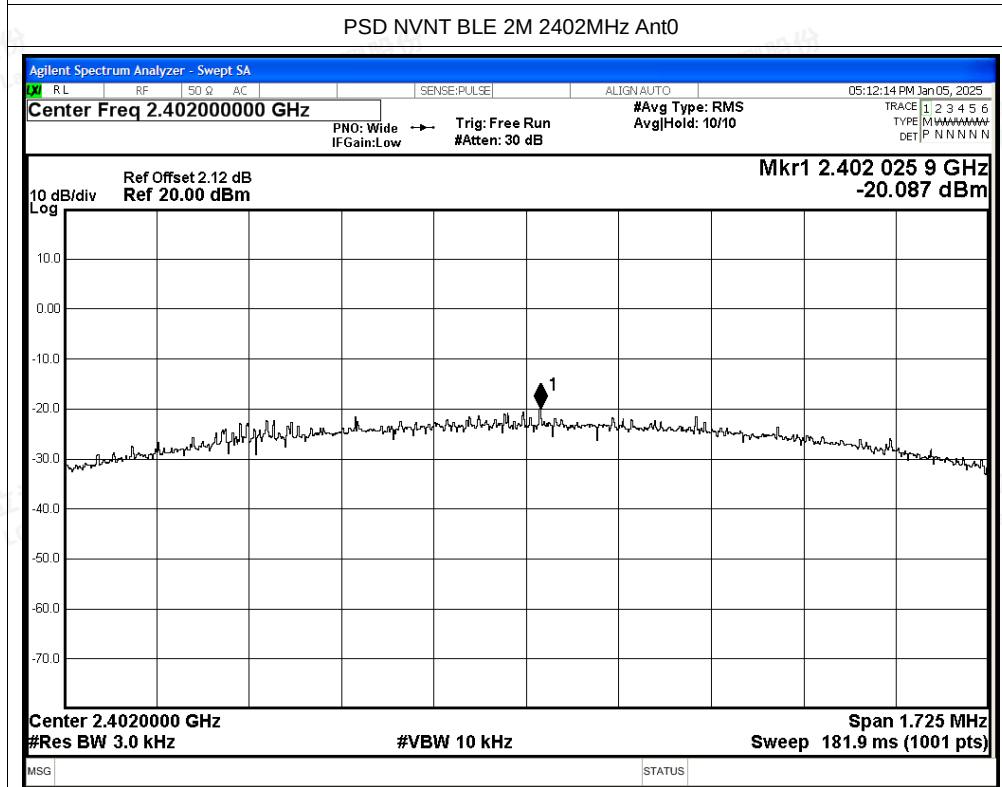
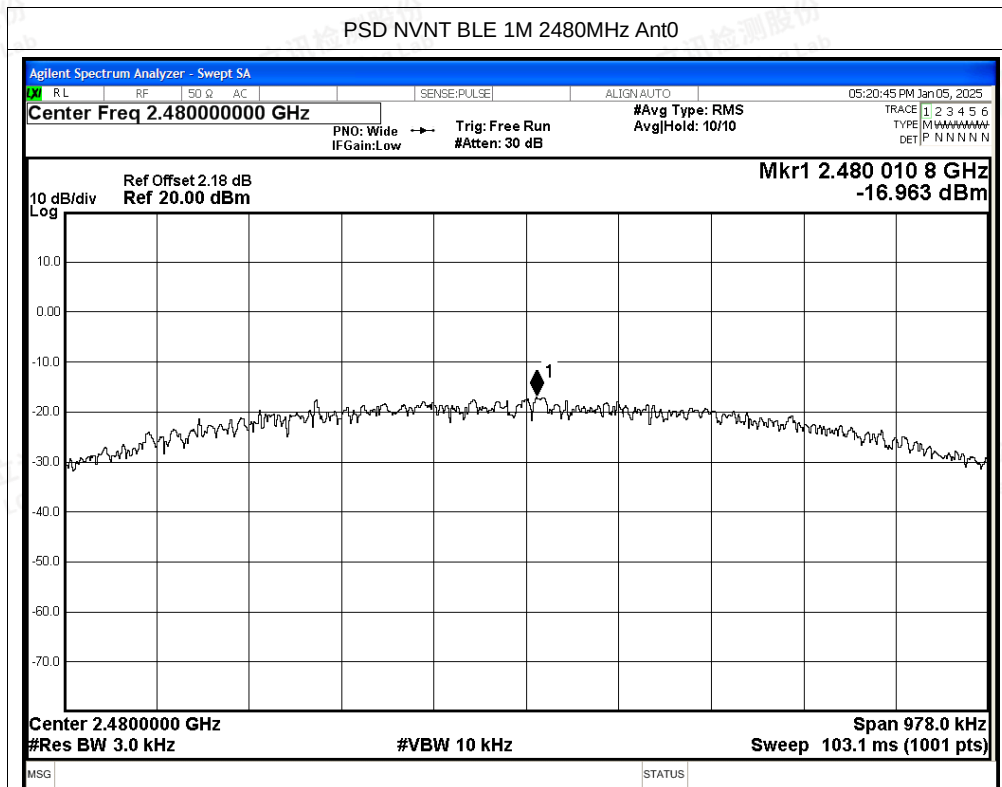
Test Graphs

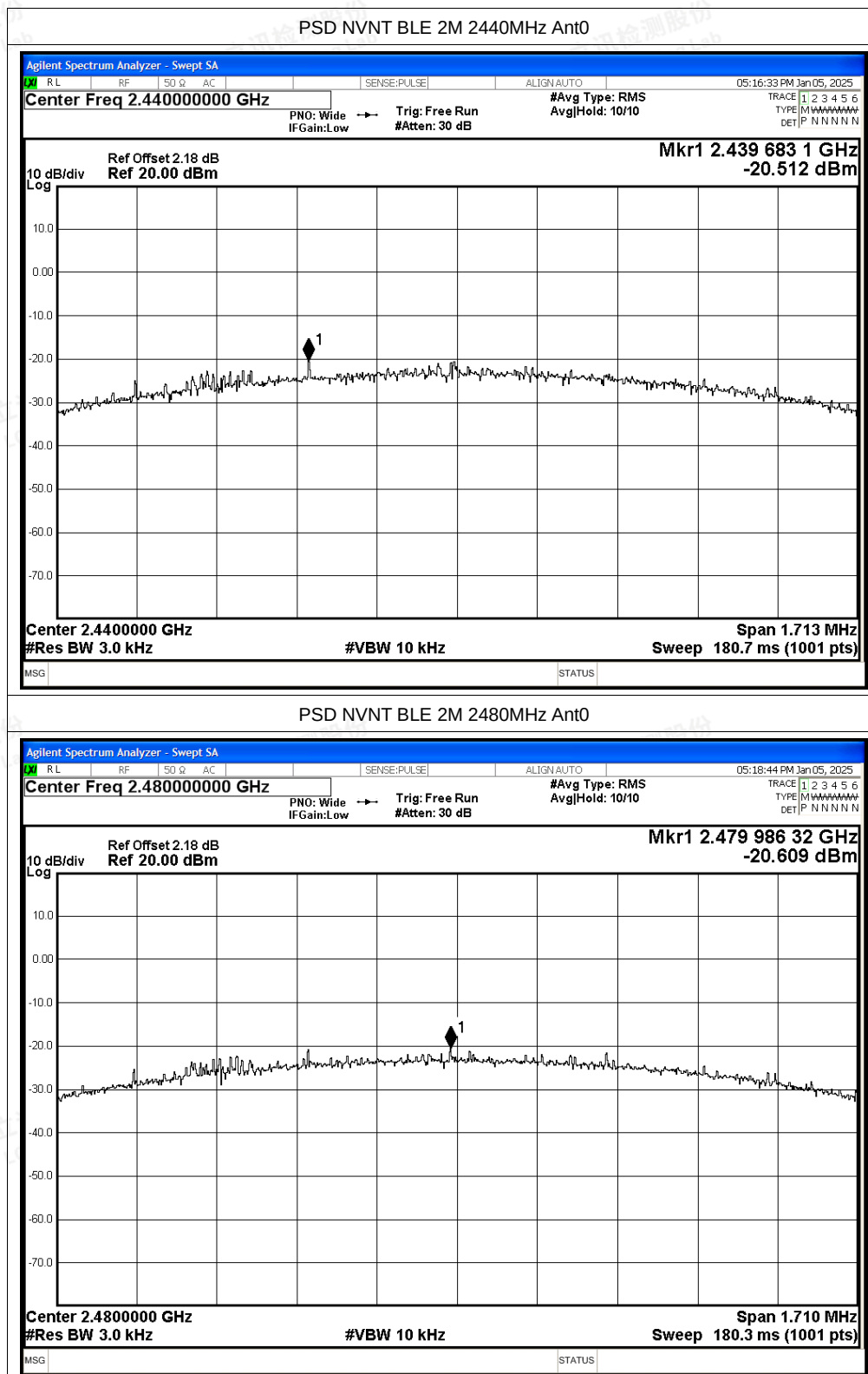
PSD NVNT BLE 1M 2402MHz Ant0



PSD NVNT BLE 1M 2440MHz Ant0









B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant0	-56.11	-20	Pass
NVNT	BLE 1M	2480	Ant0	-55.89	-20	Pass
NVNT	BLE 2M	2402	Ant0	-44.06	-20	Pass
NVNT	BLE 2M	2480	Ant0	-56.13	-20	Pass

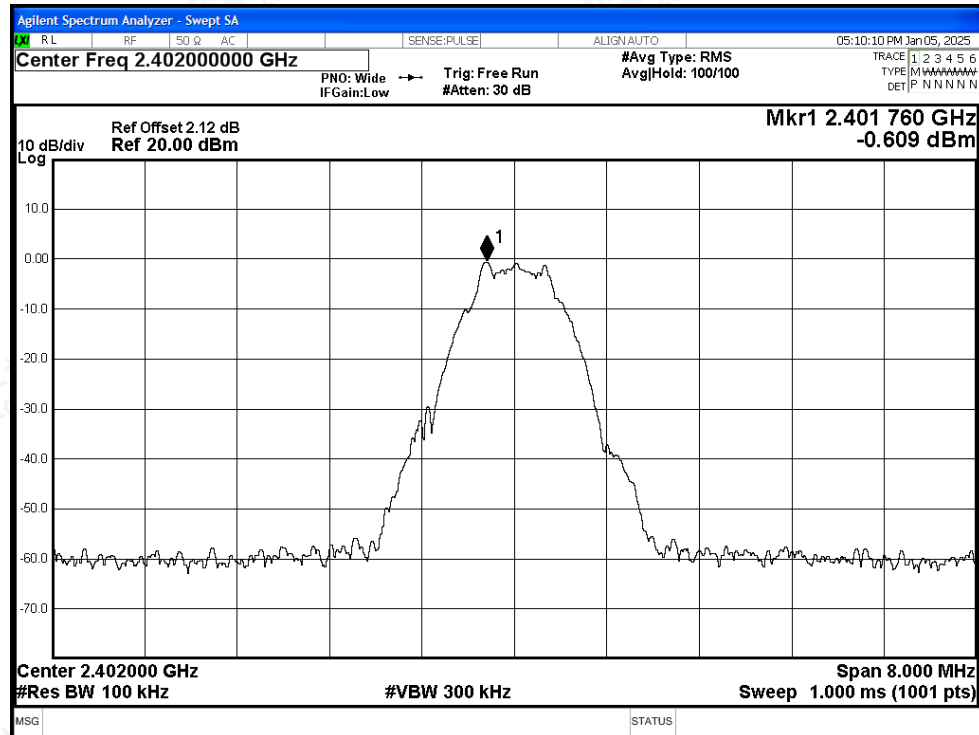


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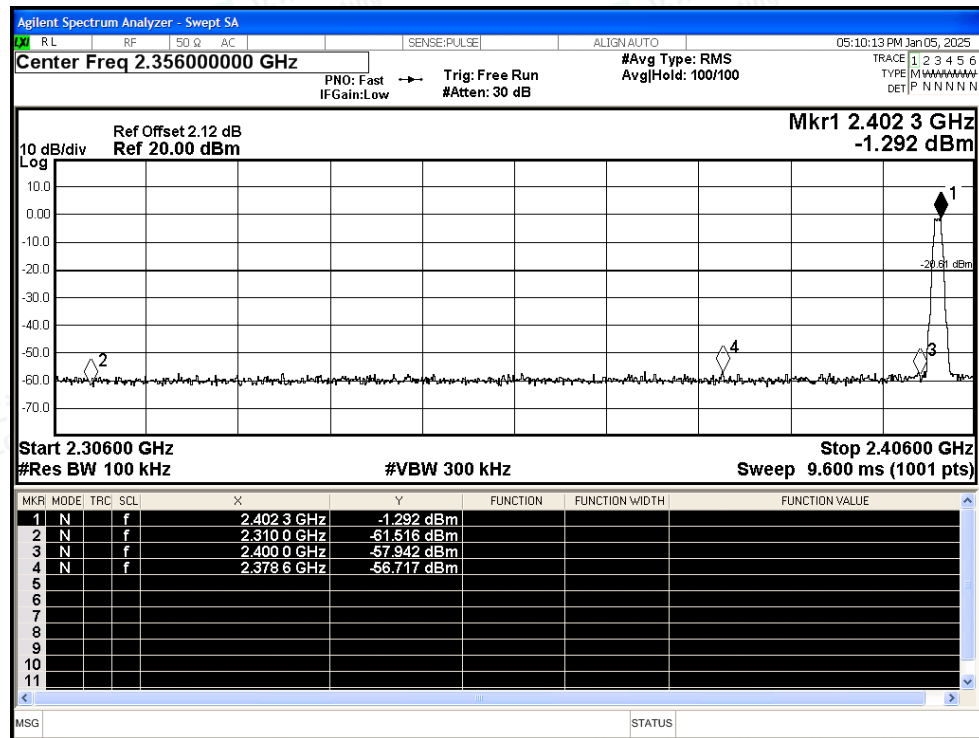


Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant0 Ref

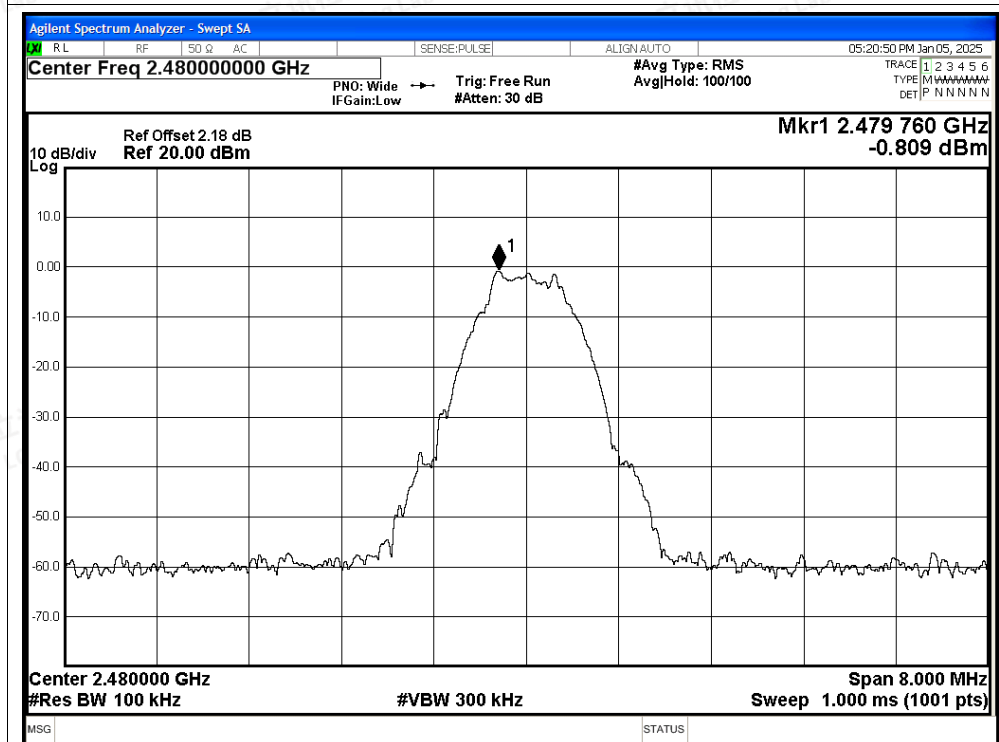


Band Edge NVNT BLE 1M 2402MHz Ant0 Emission

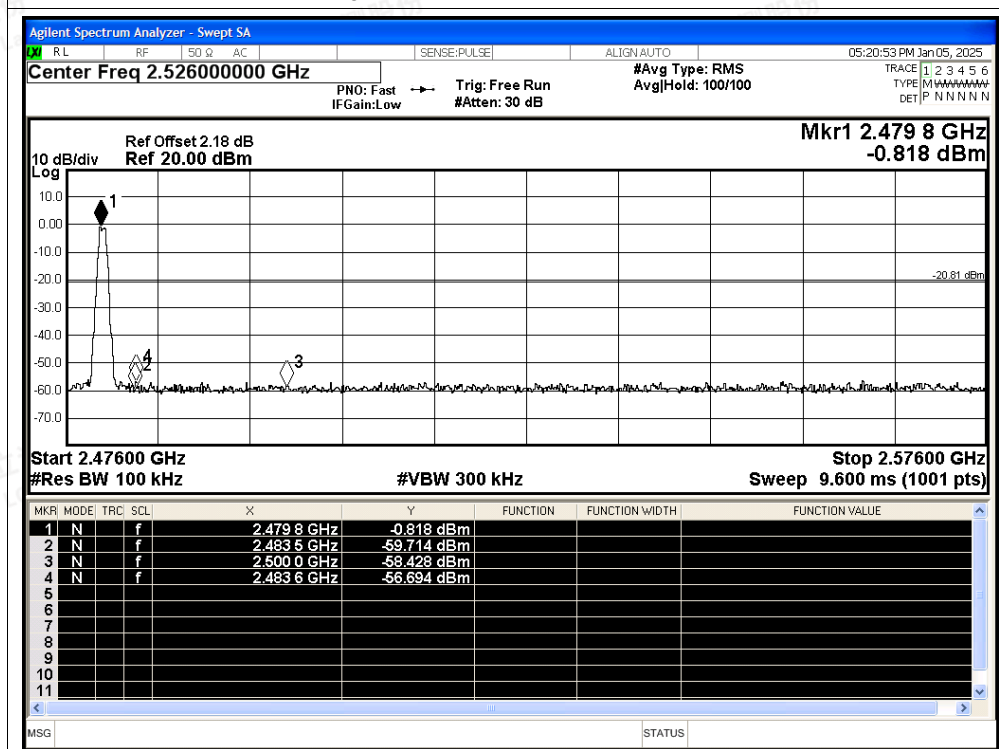


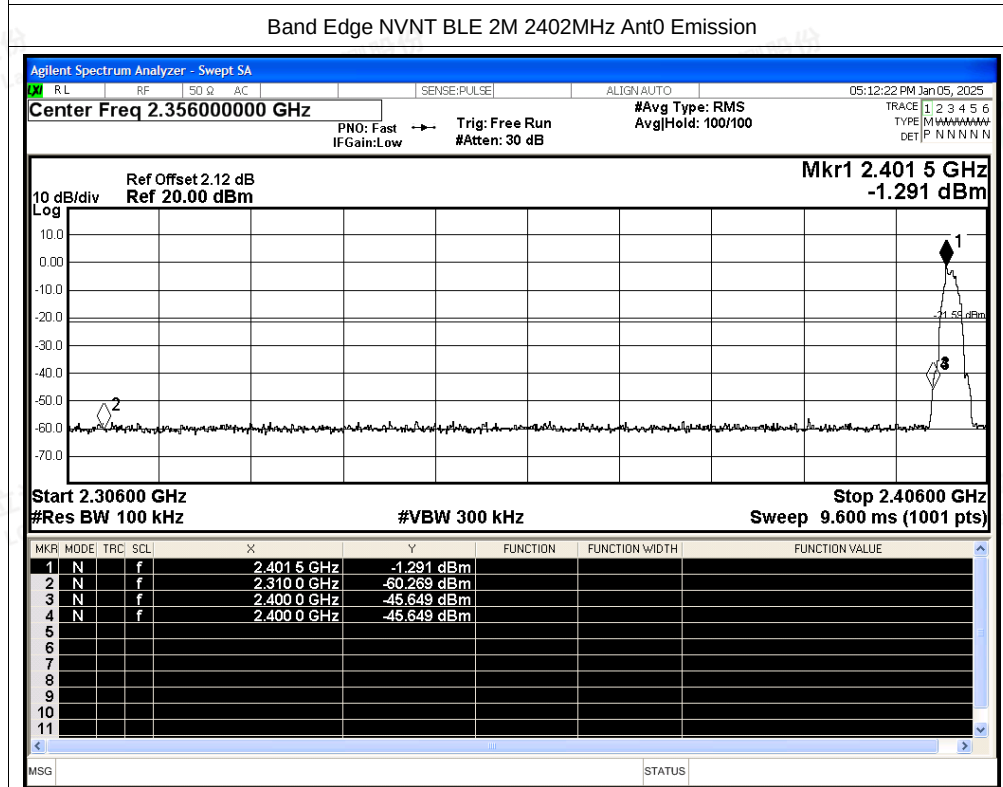
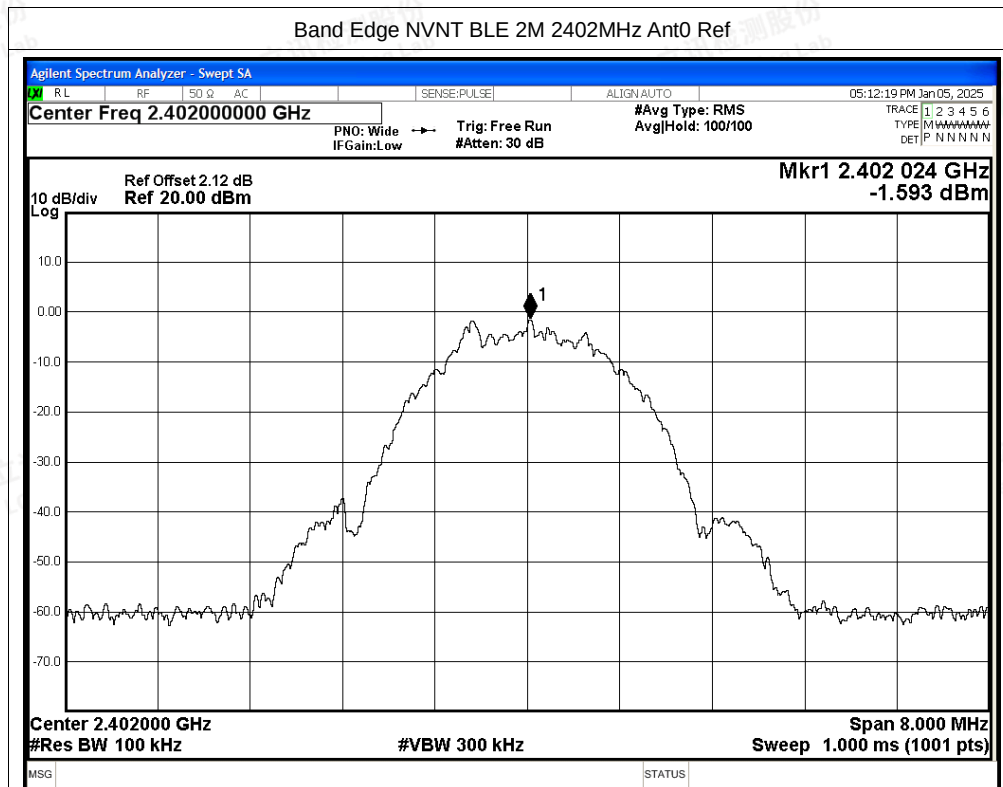


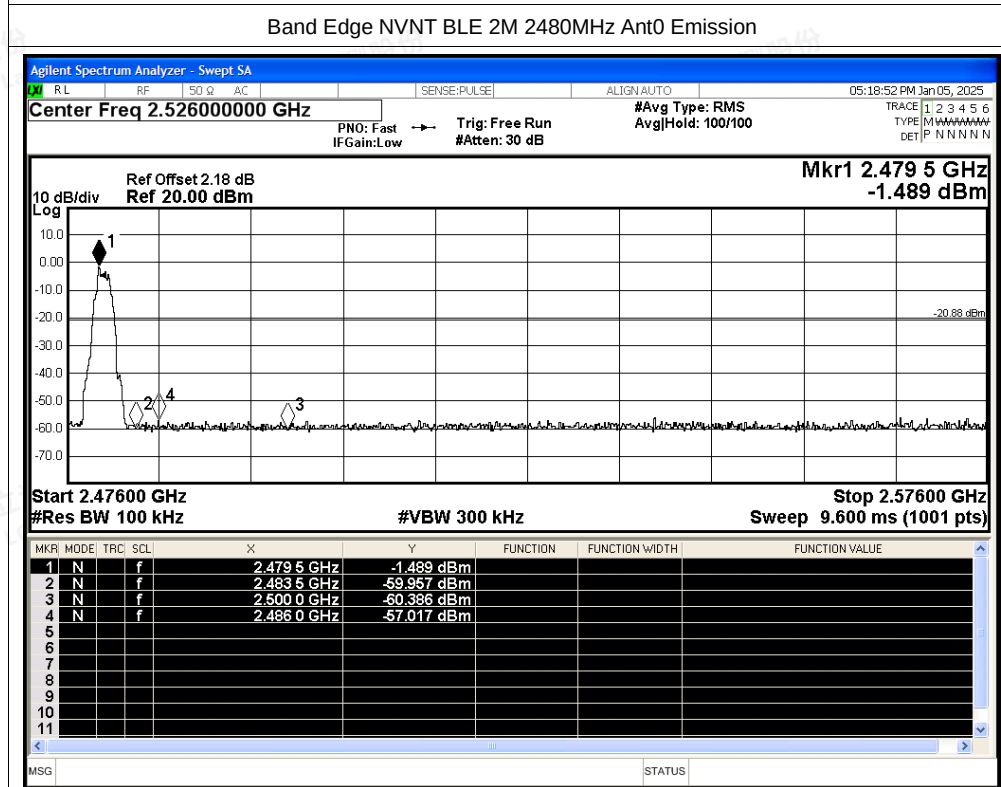
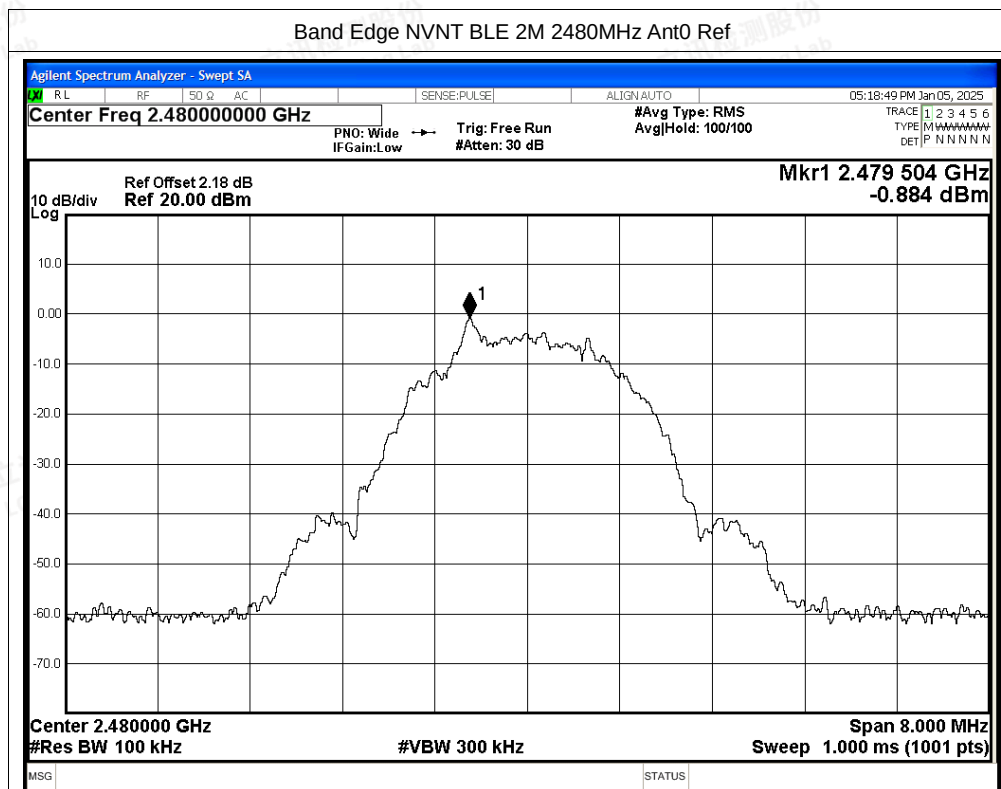
Band Edge NVNT BLE 1M 2480MHz Ant0 Ref



Band Edge NVNT BLE 1M 2480MHz Ant0 Emission









B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant0	-54.83	-20	Pass
NVNT	BLE 1M	2440	Ant0	-53.97	-20	Pass
NVNT	BLE 1M	2480	Ant0	-54.91	-20	Pass
NVNT	BLE 2M	2402	Ant0	-54.28	-20	Pass
NVNT	BLE 2M	2440	Ant0	-53.81	-20	Pass
NVNT	BLE 2M	2480	Ant0	-54.2	-20	Pass

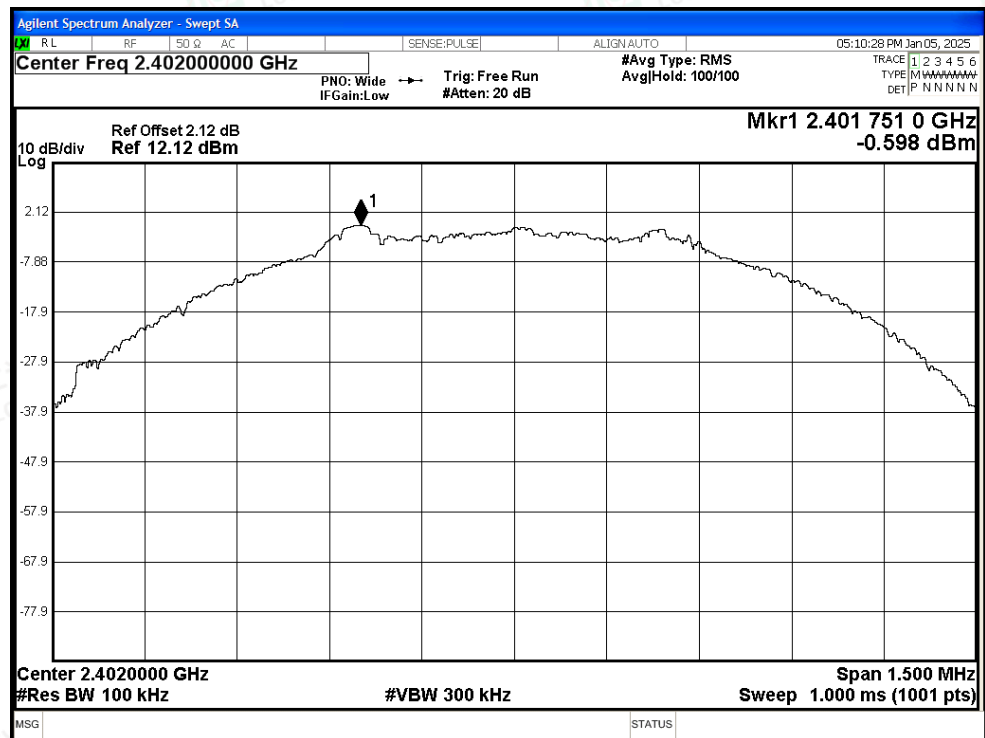


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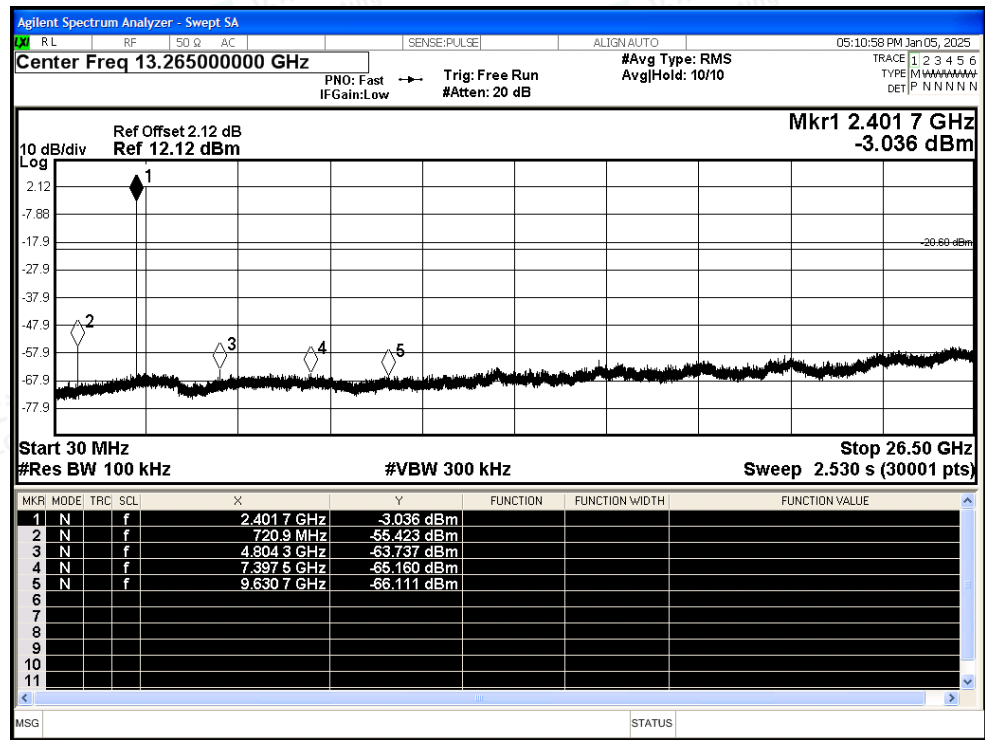


Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant0 Ref



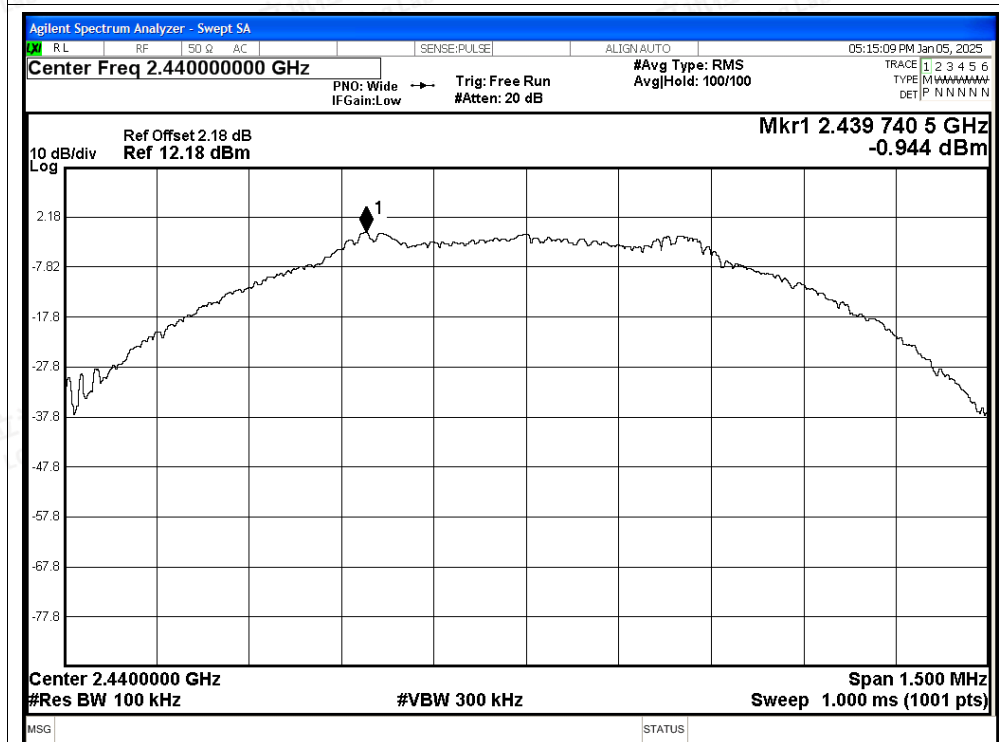
Tx. Spurious NVNT BLE 1M 2402MHz Ant0 Emission



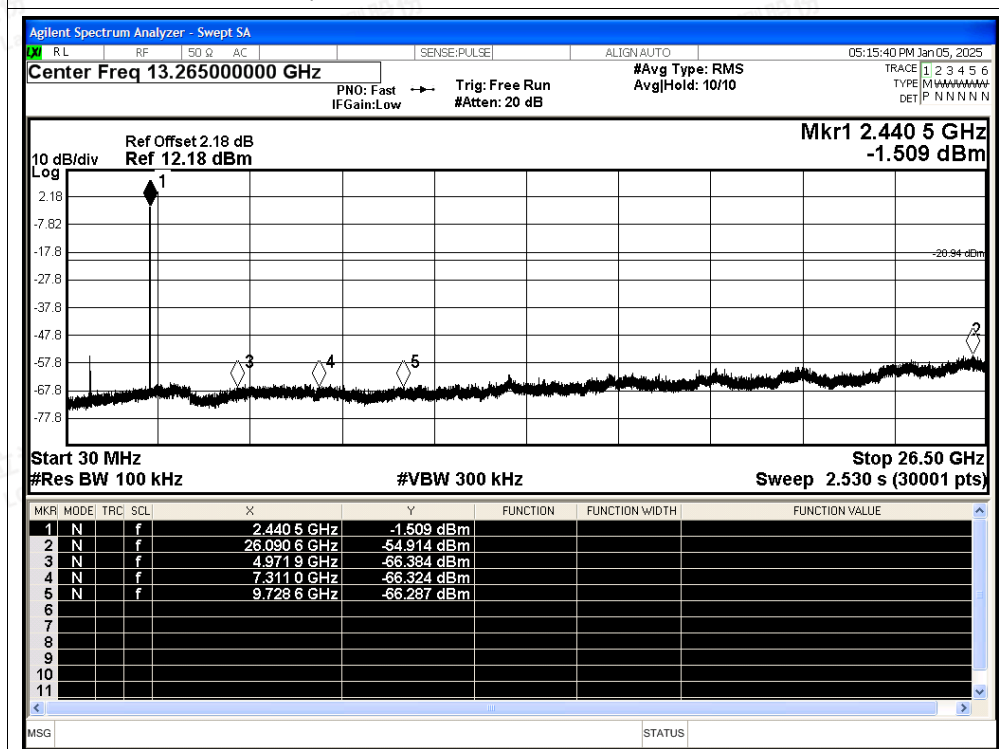
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Tx. Spurious NVNT BLE 1M 2440MHz Ant0 Ref

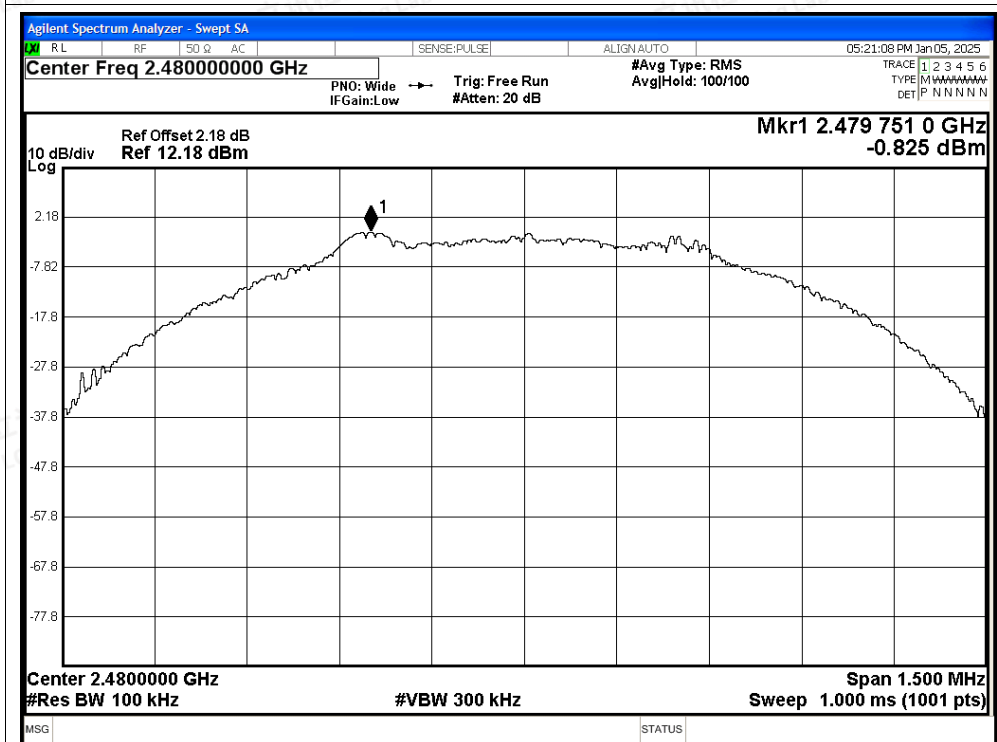


Tx. Spurious NVNT BLE 1M 2440MHz Ant0 Emission

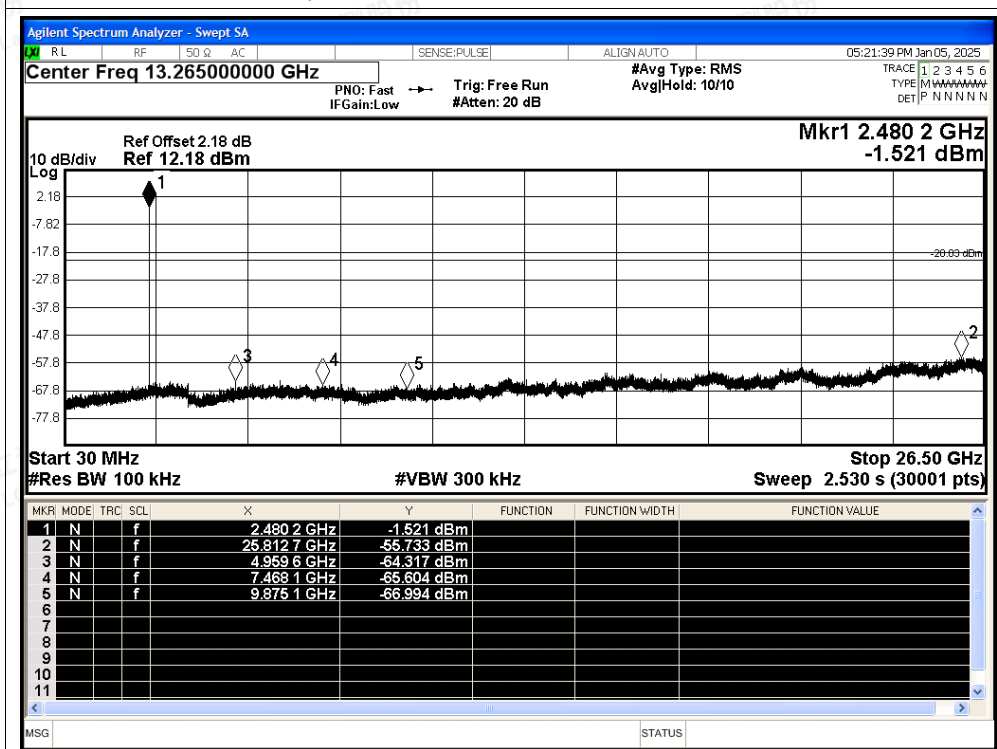




Tx. Spurious NVNT BLE 1M 2480MHz Ant0 Ref

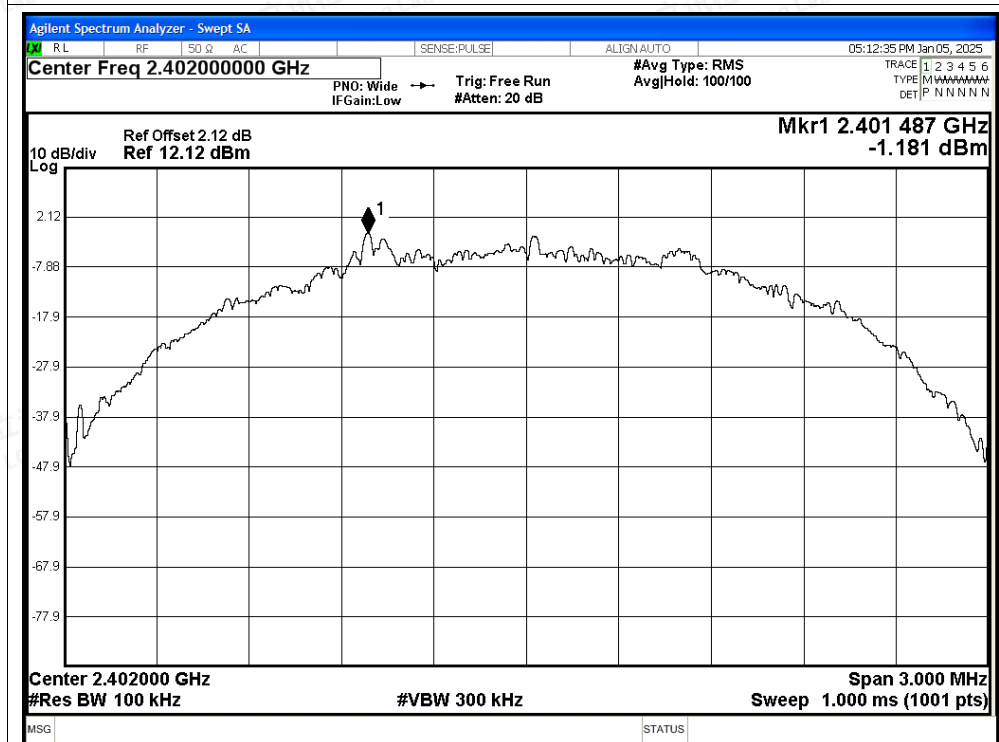


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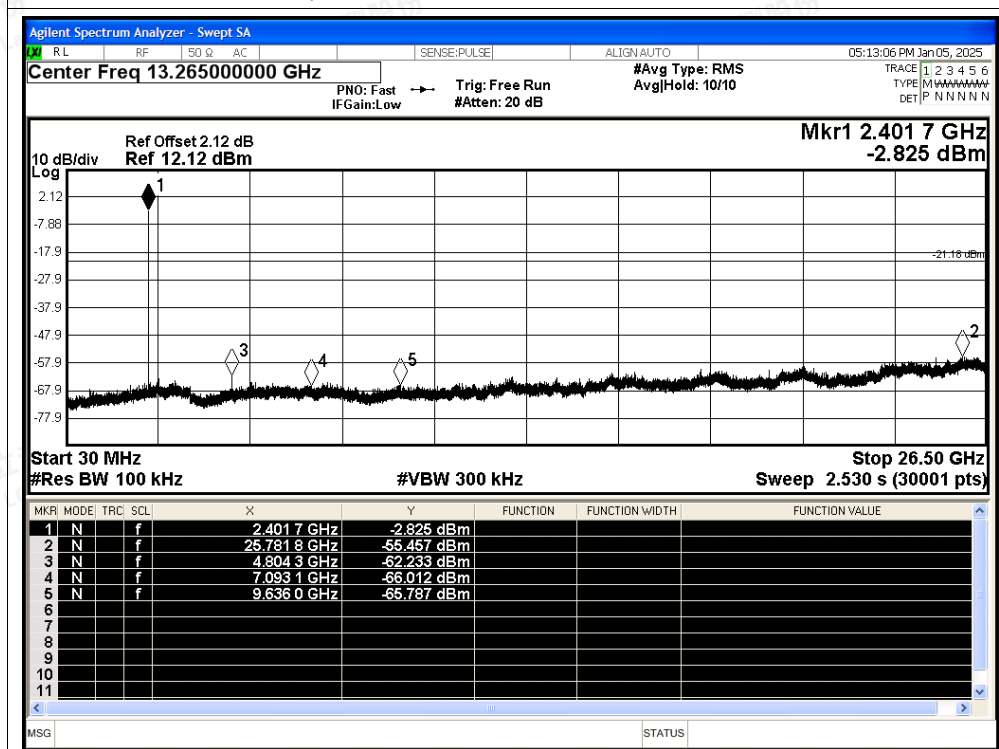




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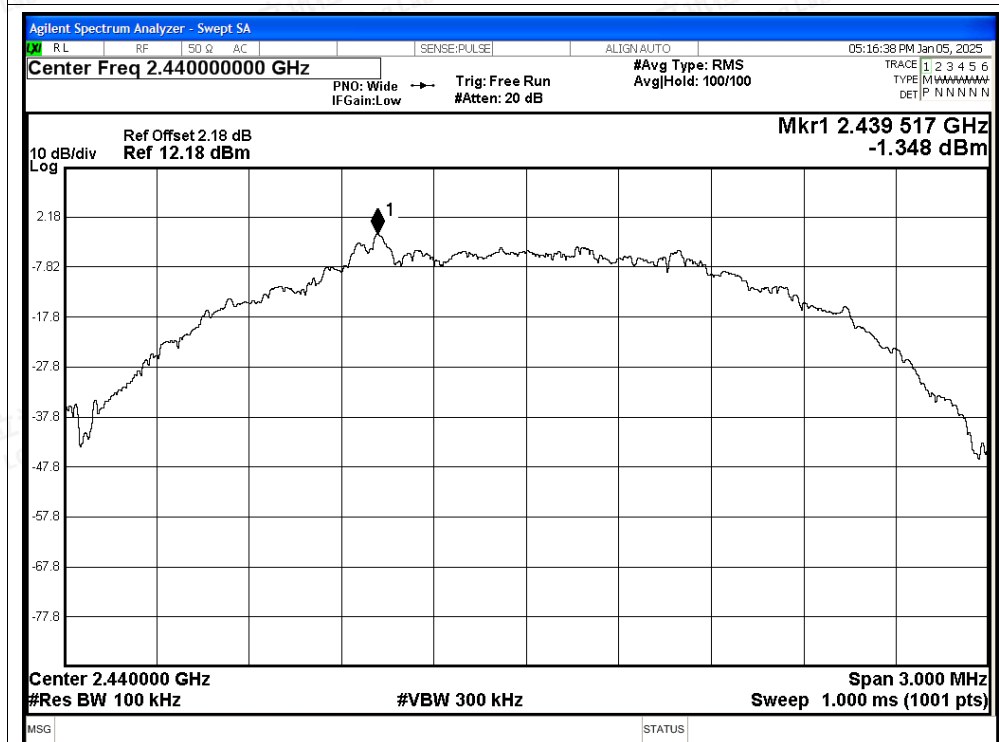


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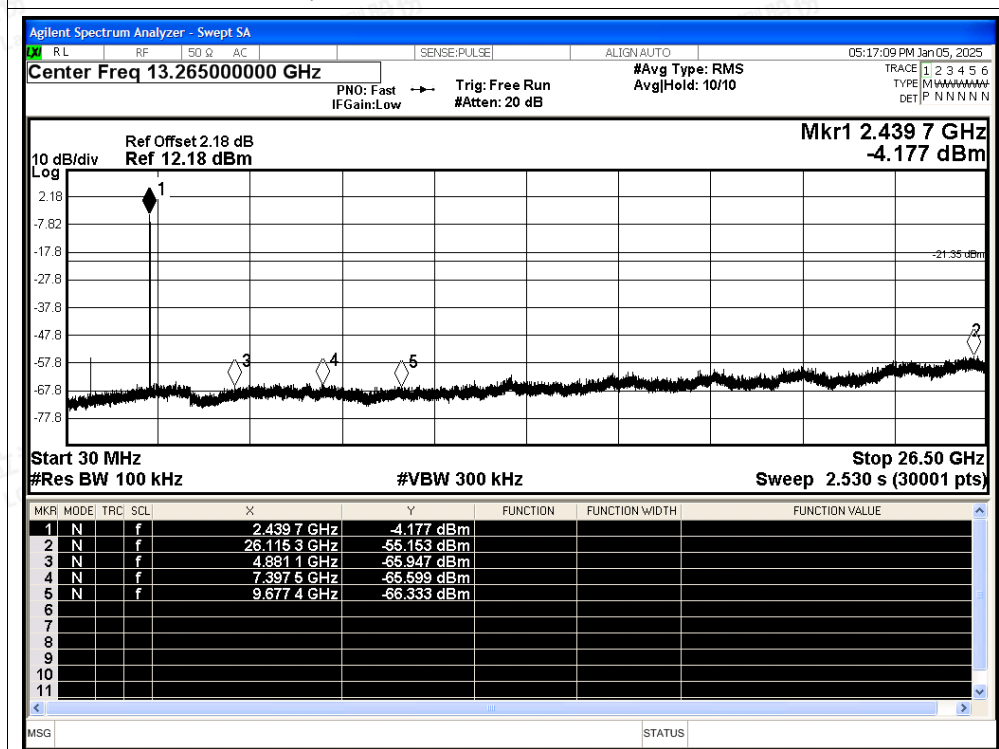




Tx. Spurious NVNT BLE 2M 2440MHz Ant0 Ref

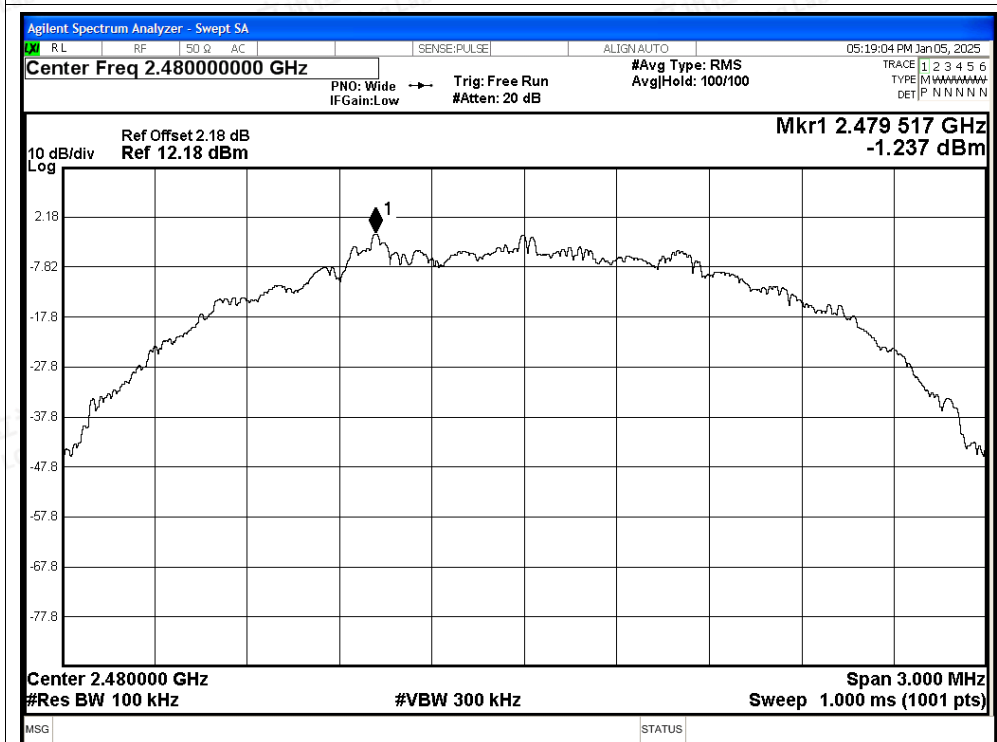


Tx. Spurious NVNT BLE 2M 2440MHz Ant0 Emission

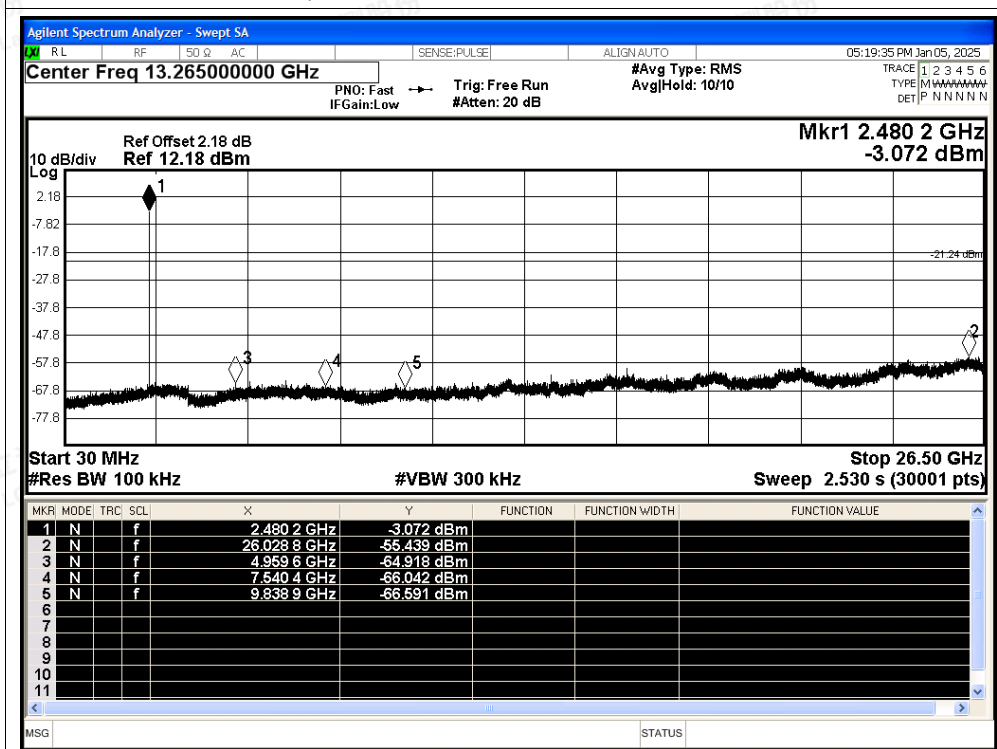




Tx. Spurious NVNT BLE 2M 2480MHz Ant0 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant0 Emission





B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant0	87.39	0.59	0.61
NVNT	BLE 1M	2440	Ant0	87.39	0.59	0.61
NVNT	BLE 1M	2480	Ant0	87.39	0.59	0.61
NVNT	BLE 2M	2402	Ant0	65.92	1.81	1.21
NVNT	BLE 2M	2440	Ant0	65.93	1.81	1.21
NVNT	BLE 2M	2480	Ant0	65.96	1.81	1.21

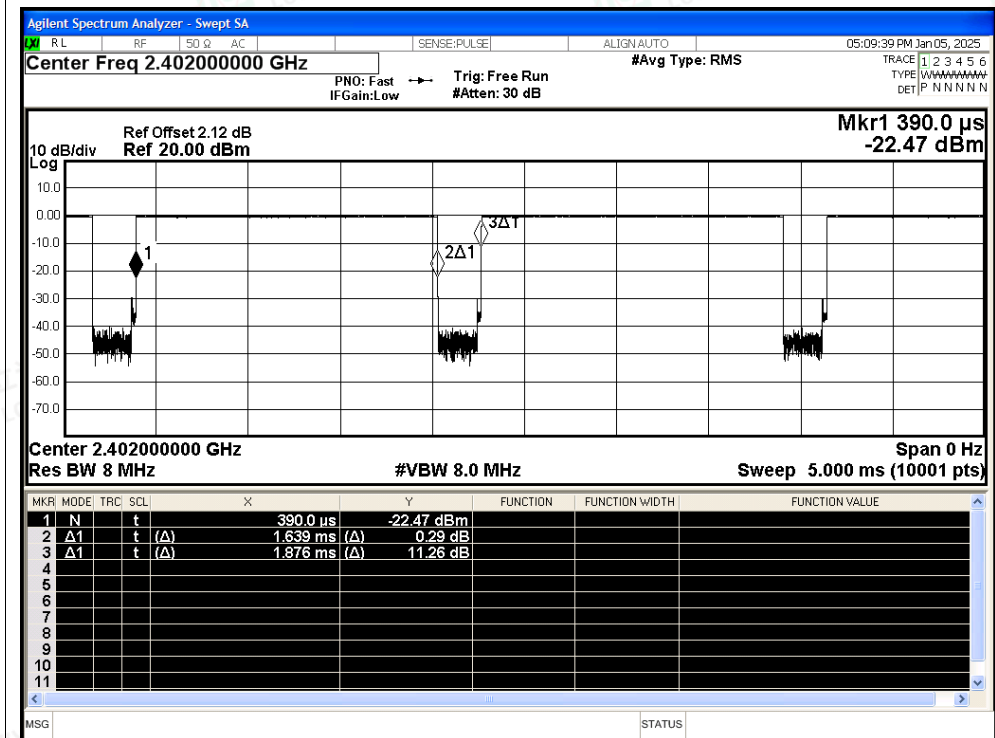


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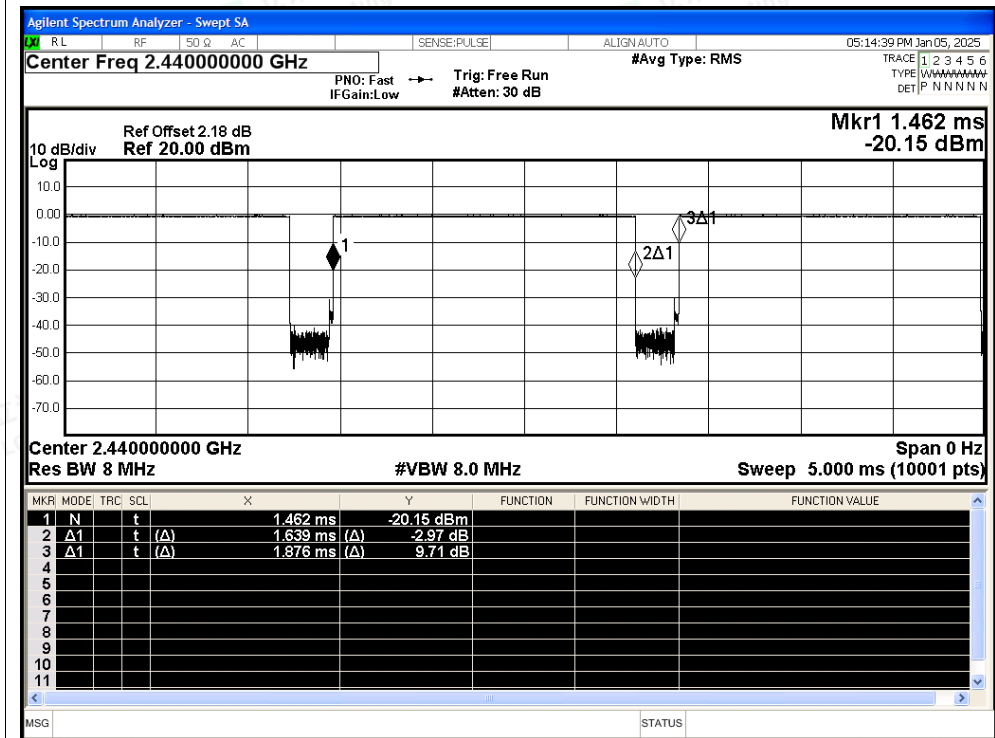


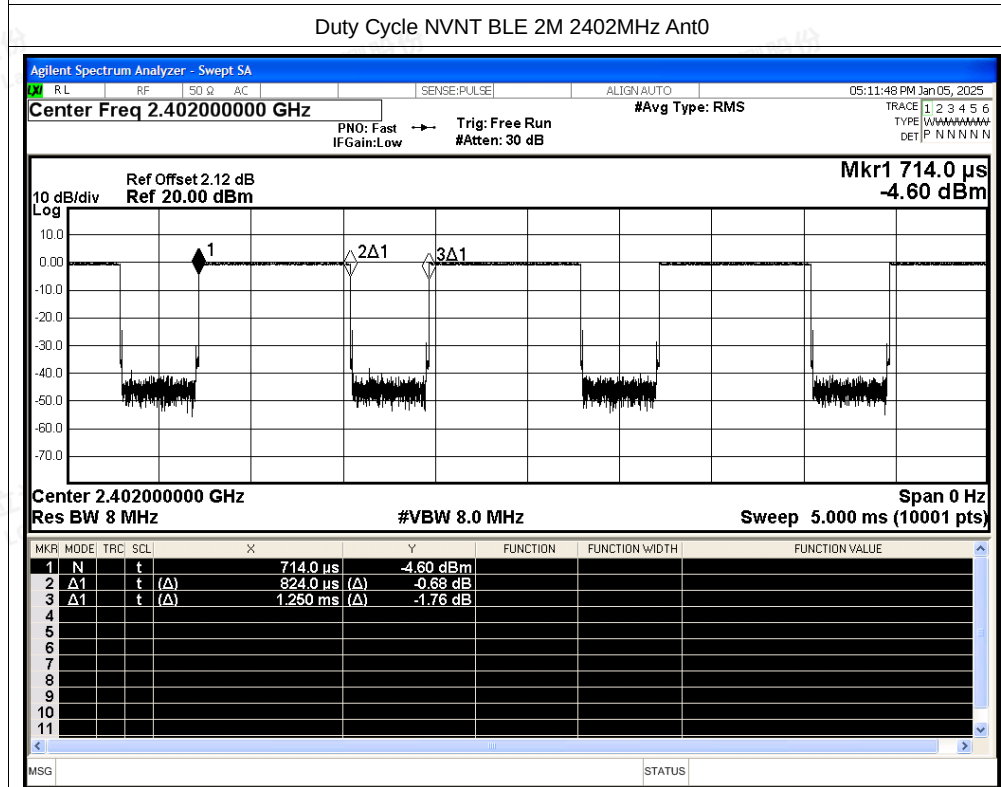
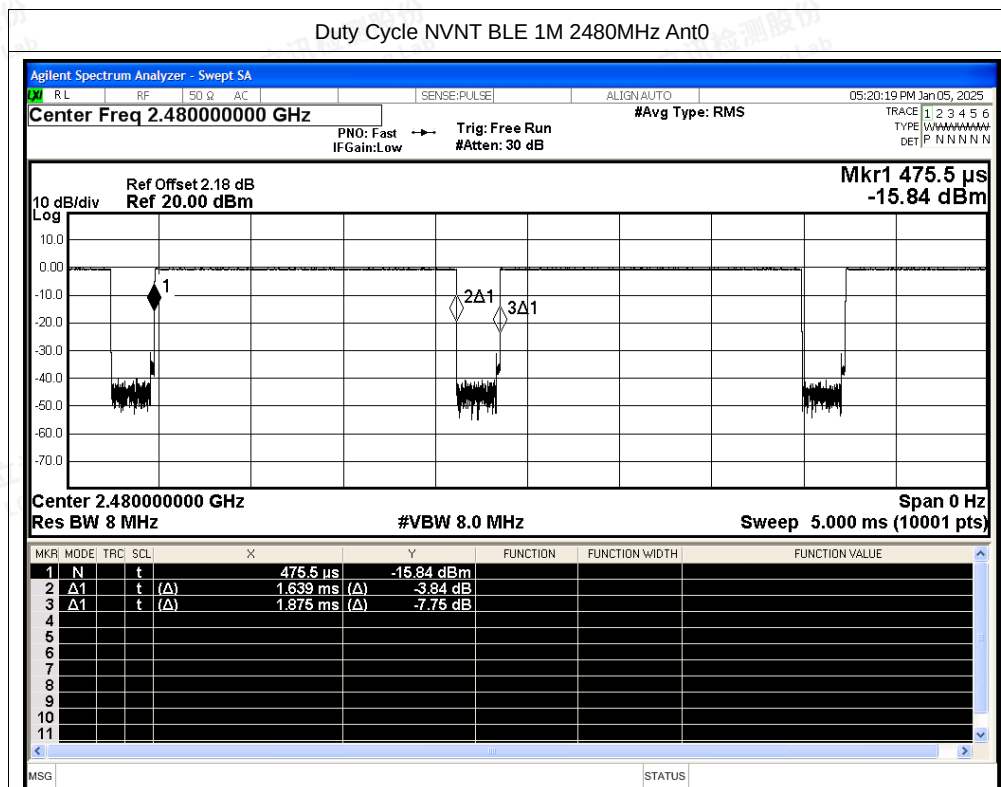
Test Graphs

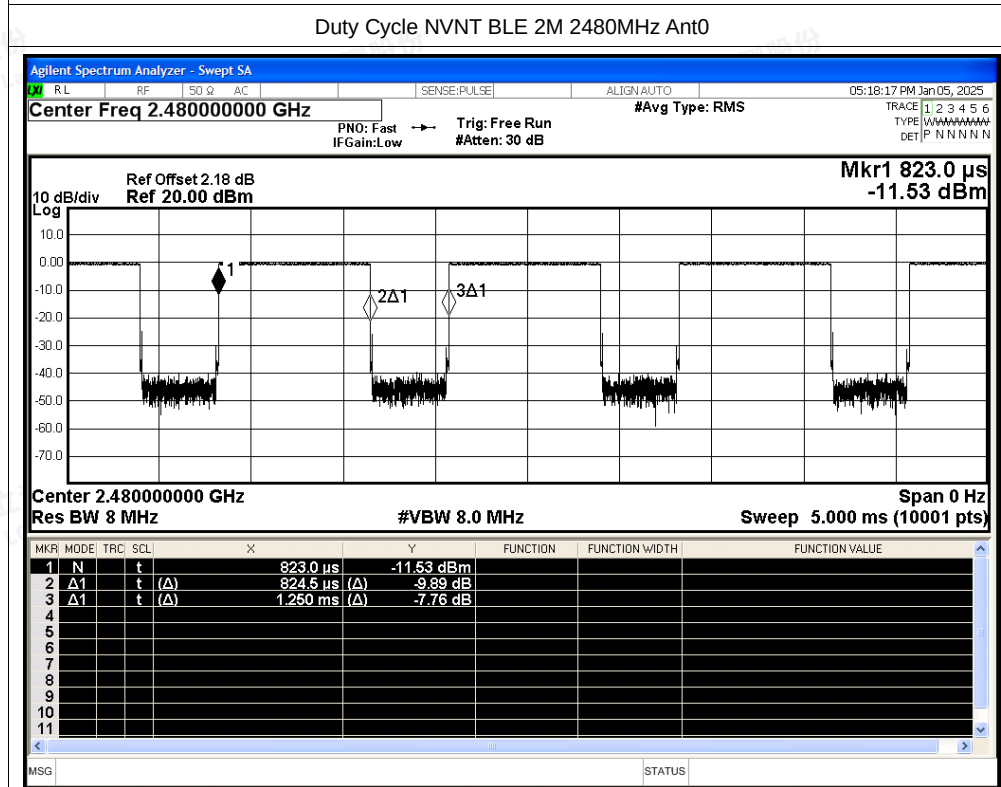
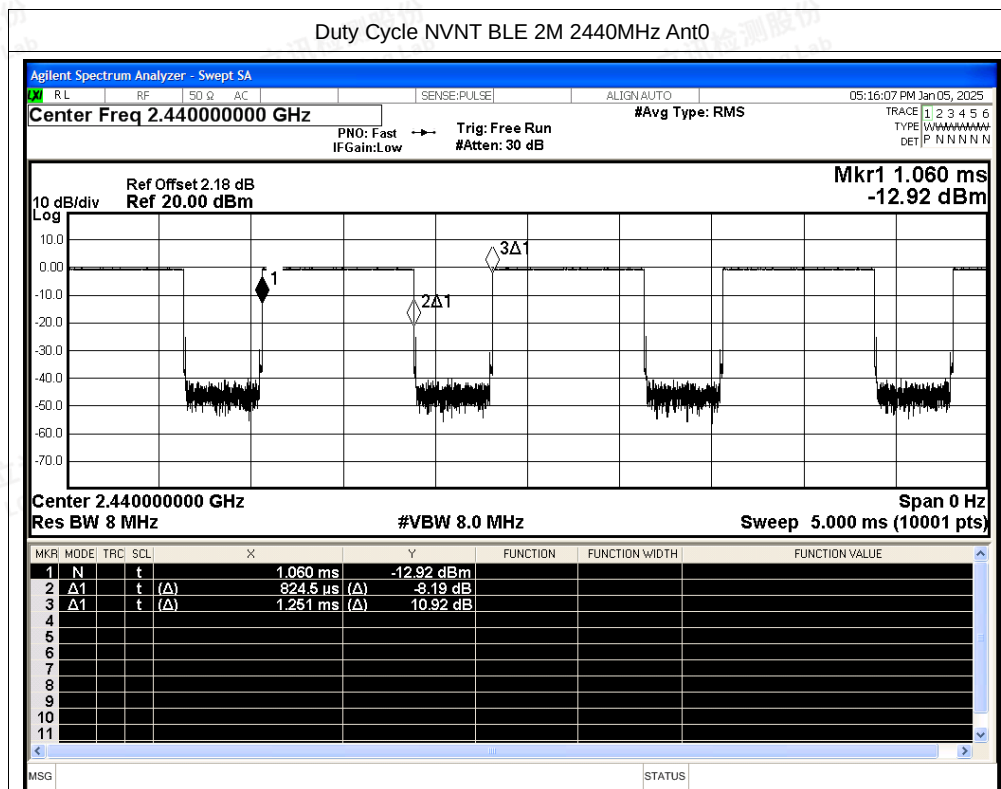
Duty Cycle NVNT BLE 1M 2402MHz Ant0



Duty Cycle NVNT BLE 1M 2440MHz Ant0









B.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant0	2310	-49.59	2.61	-	48.28	Peak	74	Pass
NVNT	BLE 1M	2402	Ant0	2310	-58.58	2.61	0.59	39.88	Average	54	Pass
NVNT	BLE 1M	2402	Ant0	2310.288	-46.92	2.61	-	50.95	Peak	74	Pass
NVNT	BLE 1M	2402	Ant0	2382.192	-57.93	2.61	0.59	40.53	Average	54	Pass
NVNT	BLE 1M	2402	Ant0	2390	-51.08	2.61	-	46.79	Peak	74	Pass
NVNT	BLE 1M	2402	Ant0	2390	-58.44	2.61	0.59	40.02	Average	54	Pass
NVNT	BLE 1M	2480	Ant0	2483.5	-49.48	2.61	-	48.39	Peak	74	Pass
NVNT	BLE 1M	2480	Ant0	2483.5	-57.69	2.61	0.59	40.77	Average	54	Pass
NVNT	BLE 1M	2480	Ant0	2487.568	-47.02	2.61	-	50.85	Peak	74	Pass
NVNT	BLE 1M	2480	Ant0	2483.92	-57.35	2.61	0.59	41.11	Average	54	Pass
NVNT	BLE 1M	2480	Ant0	2500	-50.63	2.61	-	47.24	Peak	74	Pass
NVNT	BLE 1M	2480	Ant0	2500	-57.83	2.61	0.59	40.63	Average	54	Pass
NVNT	BLE 2M	2402	Ant0	2310	-50.35	2.61	-	47.52	Peak	74	Pass
NVNT	BLE 2M	2402	Ant0	2310	-58.33	2.61	1.81	41.35	Average	54	Pass
NVNT	BLE 2M	2402	Ant0	2324.976	-46.98	2.61	-	50.89	Peak	74	Pass
NVNT	BLE 2M	2402	Ant0	2316.624	-57.56	2.61	1.81	42.12	Average	54	Pass
NVNT	BLE 2M	2402	Ant0	2390	-50.03	2.61	-	47.84	Peak	74	Pass
NVNT	BLE 2M	2402	Ant0	2390	-58.18	2.61	1.81	41.50	Average	54	Pass
NVNT	BLE 2M	2480	Ant0	2483.5	-50.18	2.61	-	47.69	Peak	74	Pass
NVNT	BLE 2M	2480	Ant0	2483.5	-57.7	2.61	1.81	41.98	Average	54	Pass
NVNT	BLE 2M	2480	Ant0	2484.616	-44.64	2.61	-	53.23	Peak	74	Pass
NVNT	BLE 2M	2480	Ant0	2485.096	-57.03	2.61	1.81	42.65	Average	54	Pass
NVNT	BLE 2M	2480	Ant0	2500	-48.36	2.61	-	49.51	Peak	74	Pass
NVNT	BLE 2M	2480	Ant0	2500	-57.41	2.61	1.81	42.27	Average	54	Pass

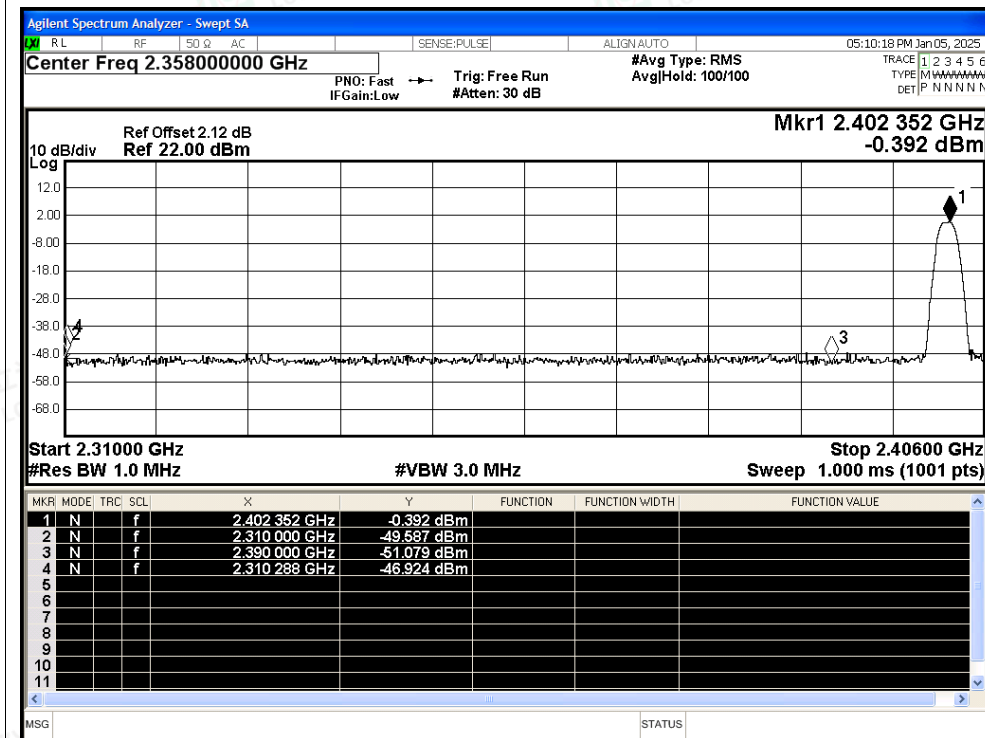


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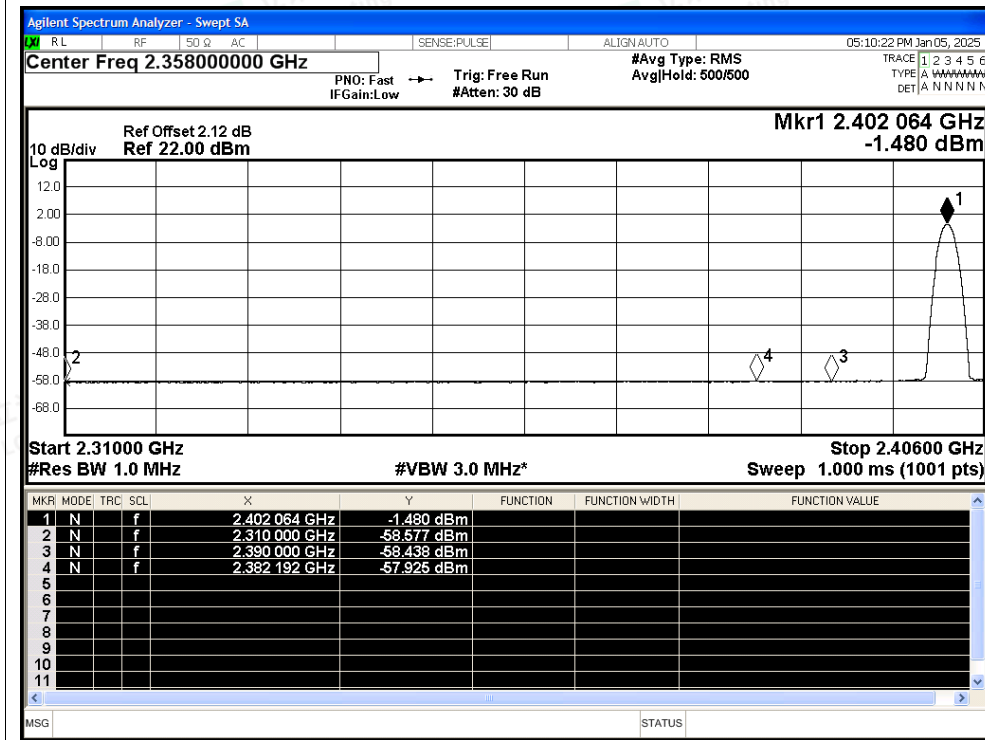


Test Graphs

Restrict Band NVNT BLE 1M 2402MHz Ant0 Peak



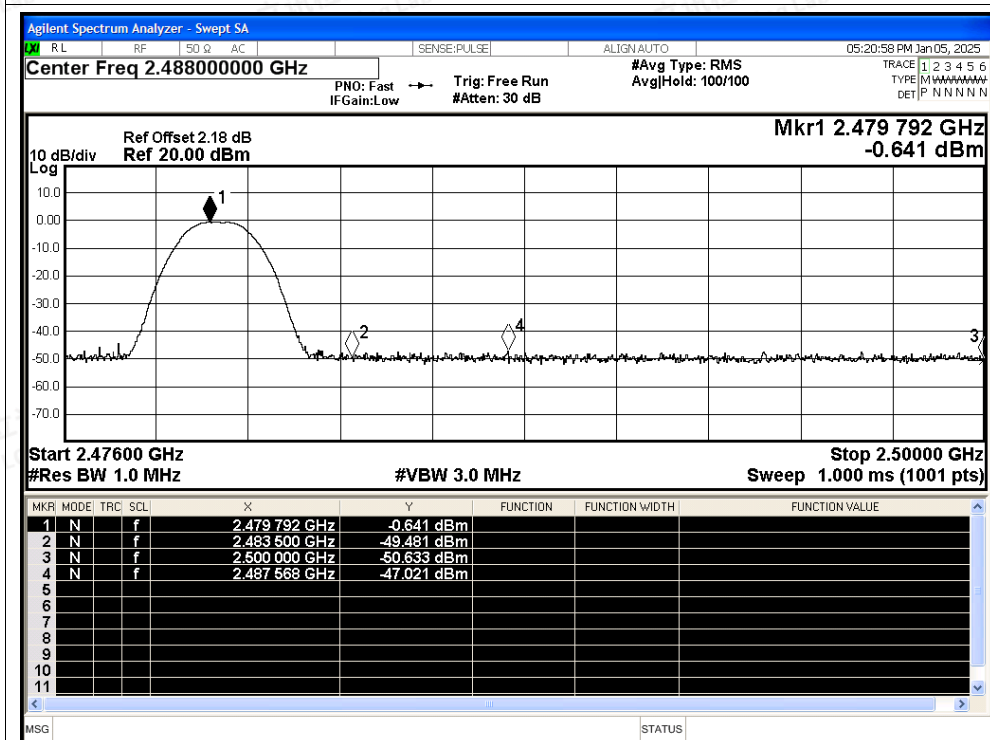
Restrict Band NVNT BLE 1M 2402MHz Ant0 Average



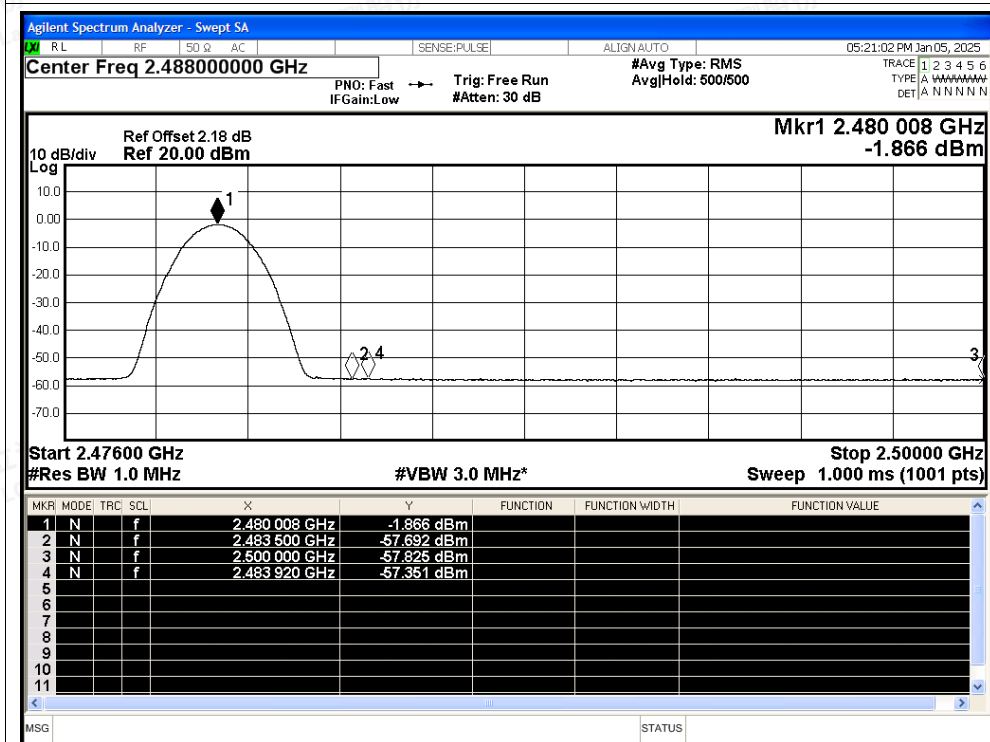
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Restrict Band NVNT BLE 1M 2480MHz Ant0 Peak

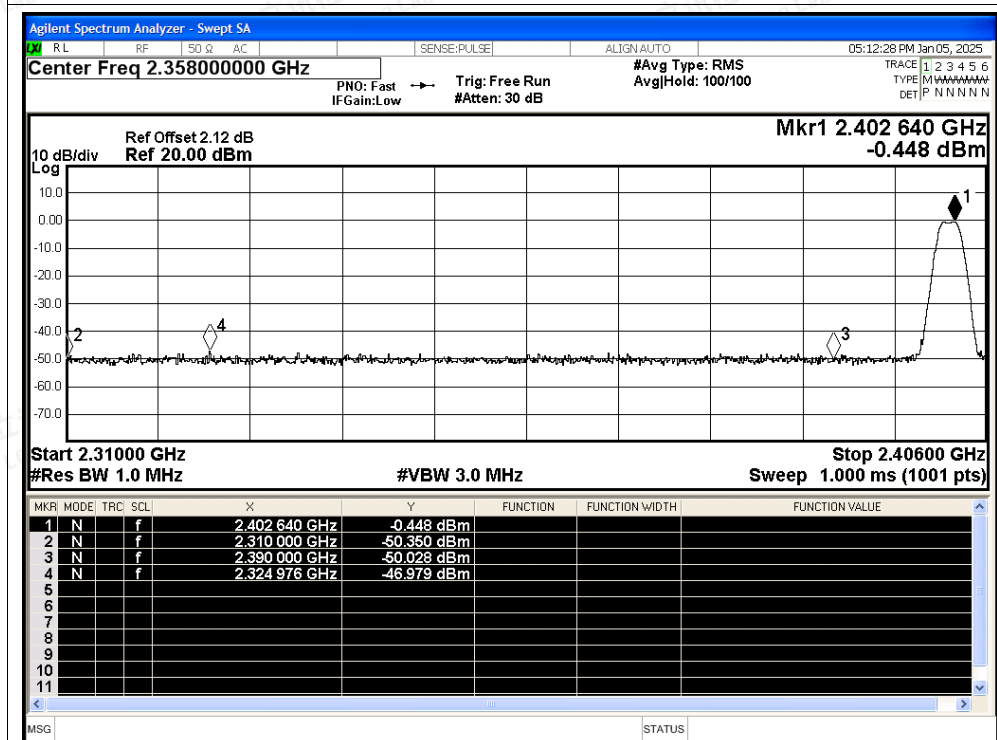


Restrict Band NVNT BLE 1M 2480MHz Ant0 Average

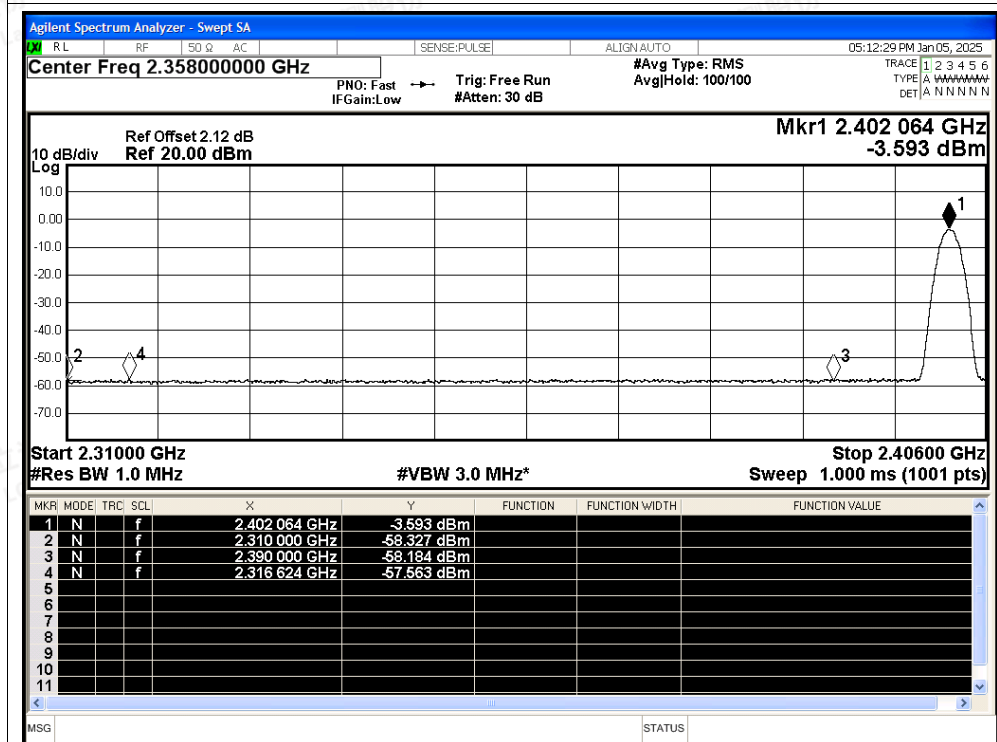




Restrict Band NVNT BLE 2M 2402MHz Ant0 Peak

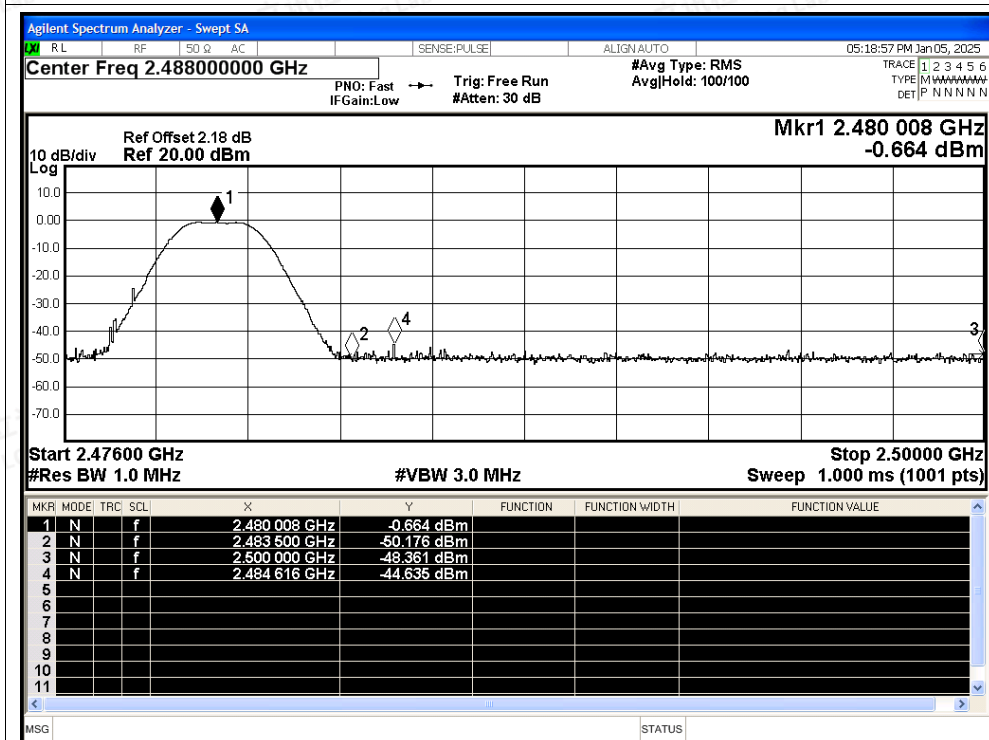


Restrict Band NVNT BLE 2M 2402MHz Ant0 Average





Restrict Band NVNT BLE 2M 2480MHz Ant0 Peak



Restrict Band NVNT BLE 2M 2480MHz Ant0 Average

