

RF Test Data for Bluetooth LE (Conducted Measurements)

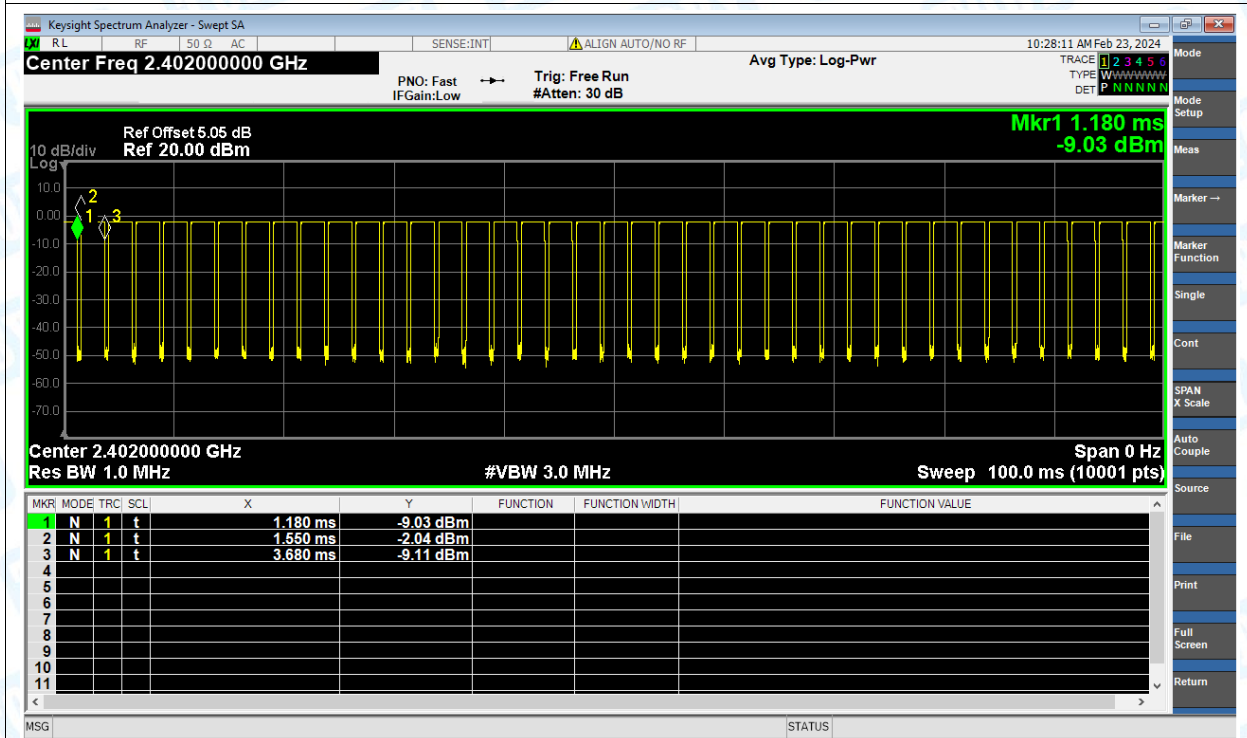
General Description of EUT	
Product Name:	AINote
Test Model:	B751C
Sample ID:	HC-C-202401-0231-01-01-2#
Environmental Conditions	
Temperature:	23.8°C
Relative Humidity:	48%
Test Voltage:	DC 3.7V
Test Engineer:	ZKN ZHOU
Note: For a more detailed features description, please refer to the report TBR-C-202401-0231-81 The report only show the worst case data.	

1. Duty Cycle

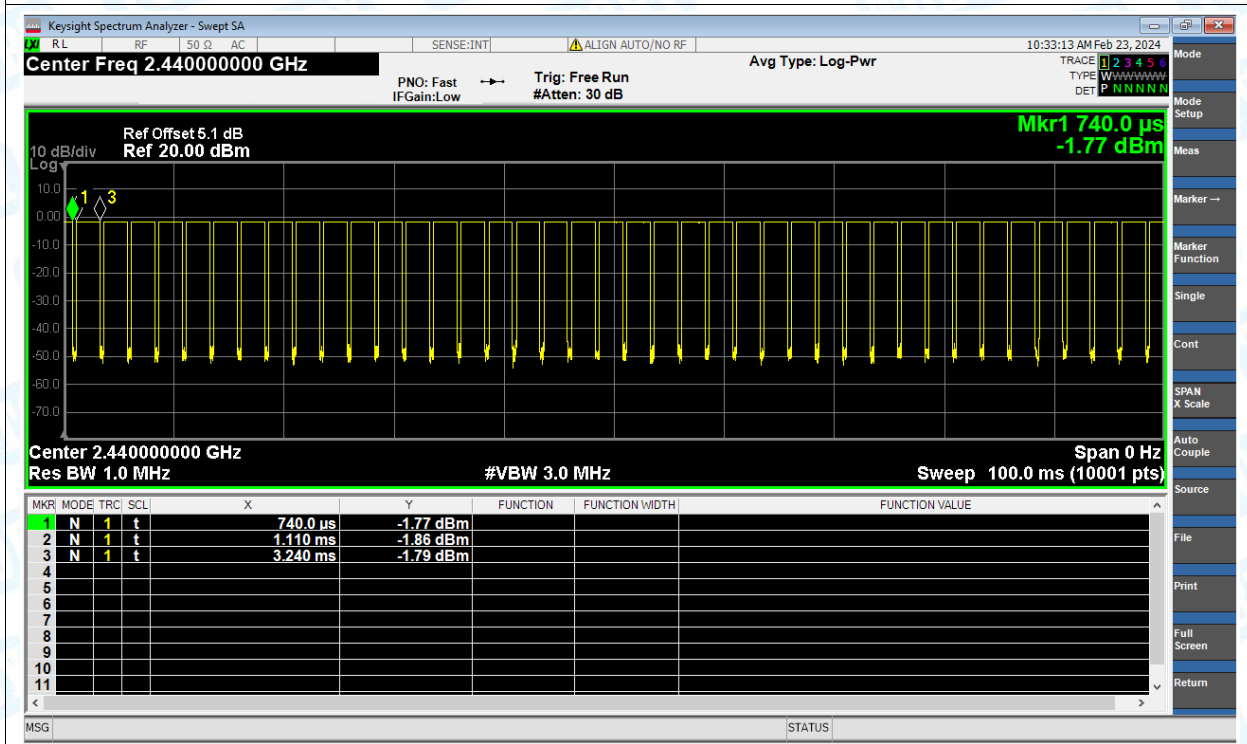
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1Mbps	2402	Ant1	85.2	0.7	0.47
NVNT	BLE 1Mbps	2440	Ant1	85.2	0.7	0.47
NVNT	BLE 1Mbps	2480	Ant1	85.2	0.7	0.47
NVNT	BLE 2Mbps	2402	Ant1	57.45	2.41	0.93
NVNT	BLE 2Mbps	2440	Ant1	57.22	2.42	0.93
NVNT	BLE 2Mbps	2480	Ant1	57.22	2.42	0.93

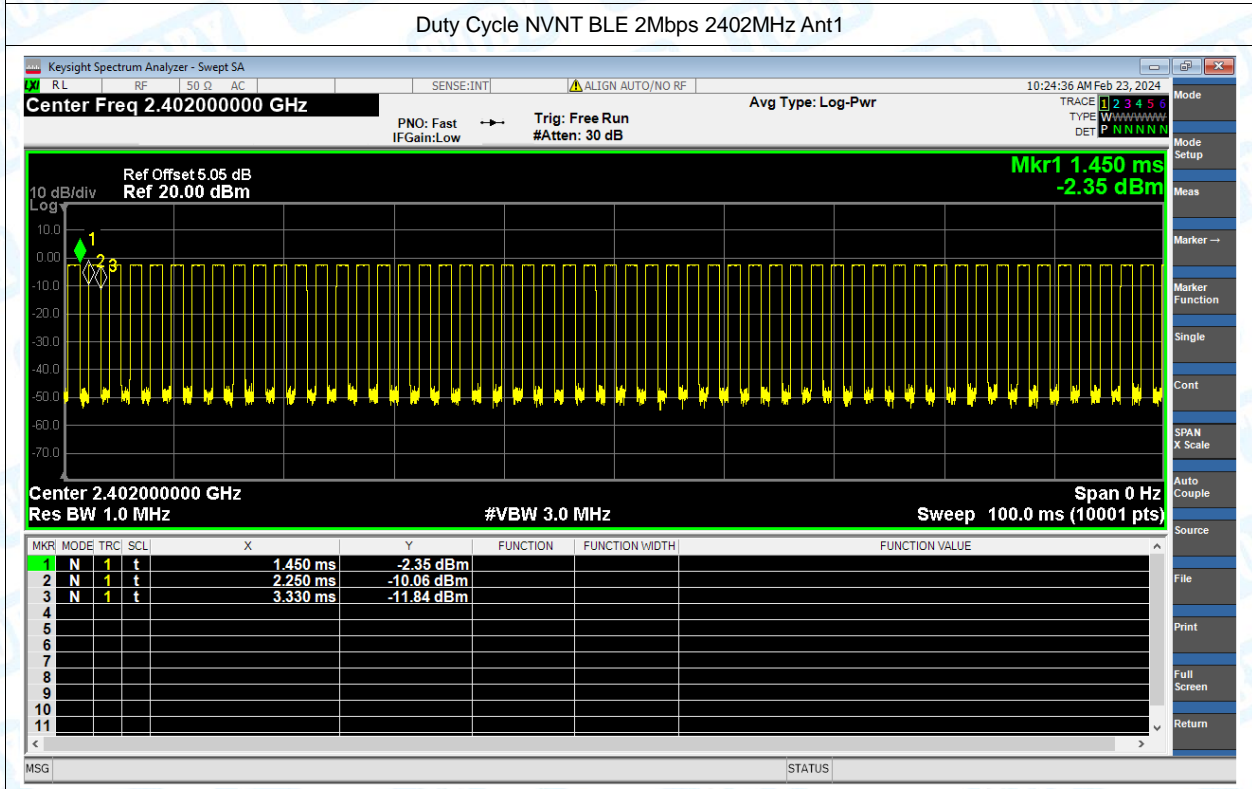
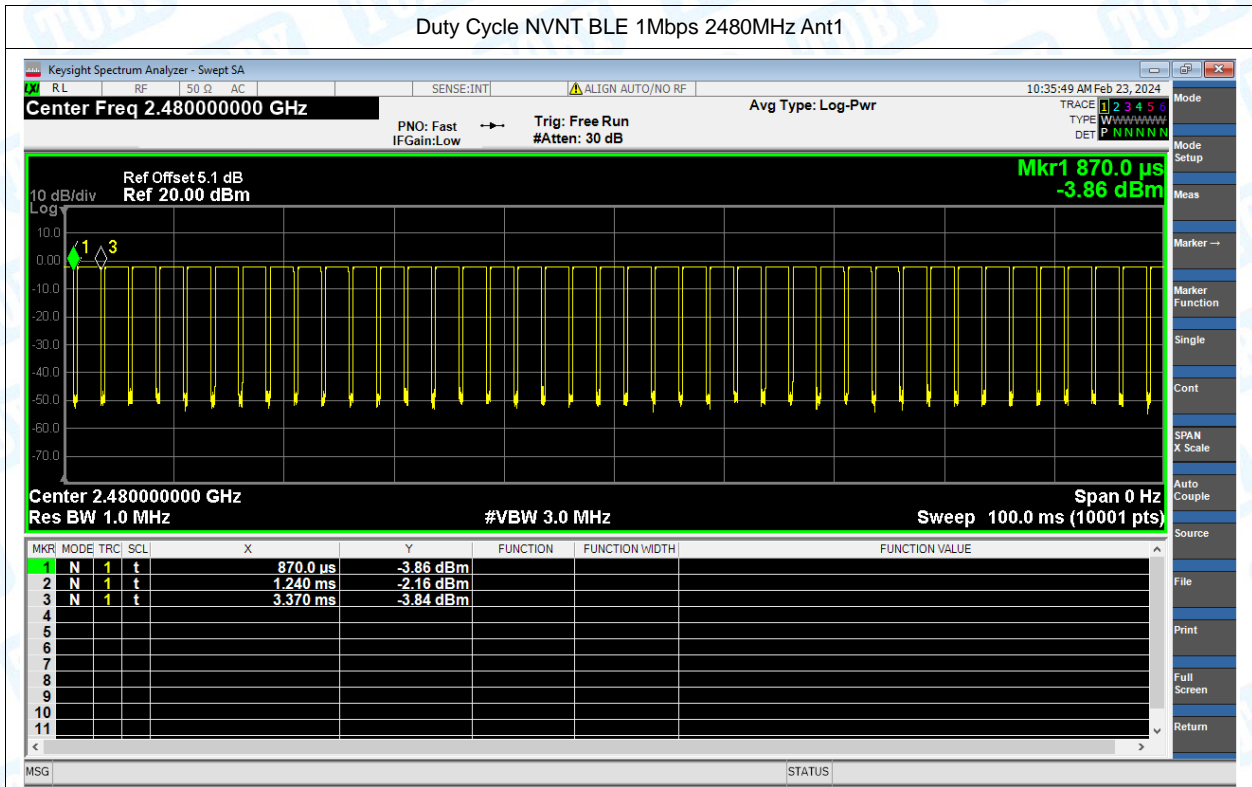
Test Graphs

Duty Cycle NVNT BLE 1Mbps 2402MHz Ant1

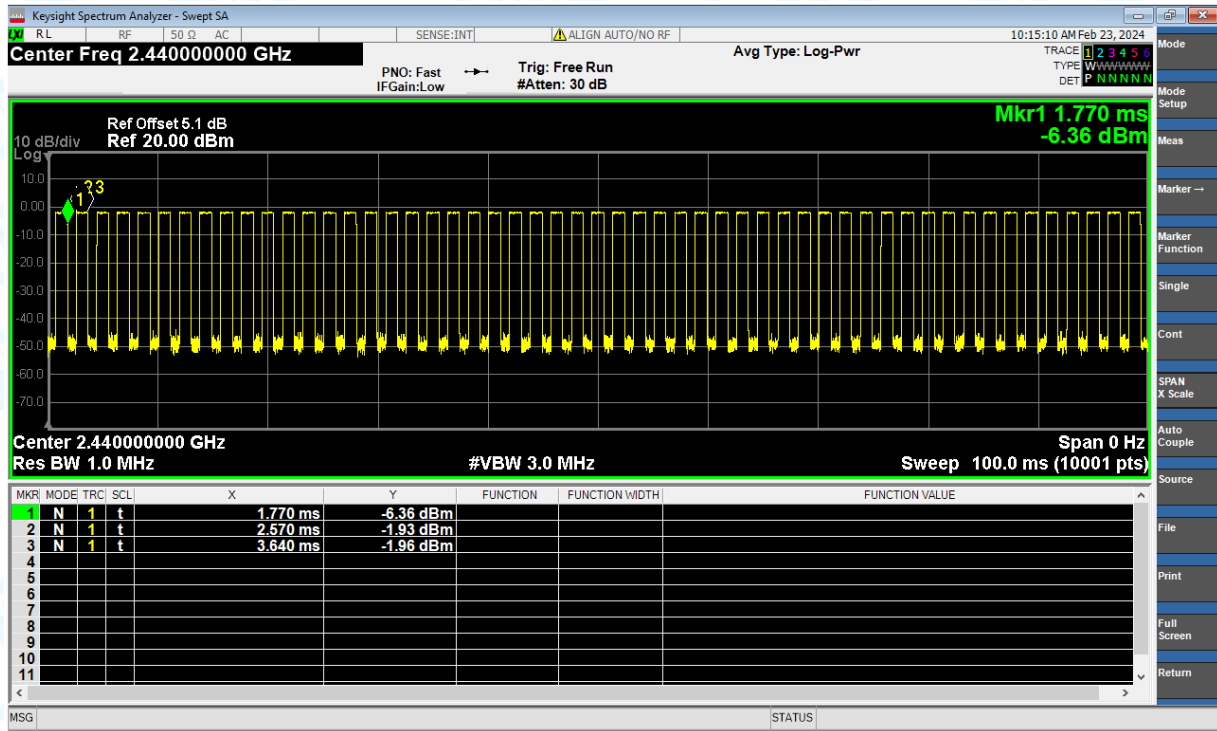


Duty Cycle NVNT BLE 1Mbps 2440MHz Ant1

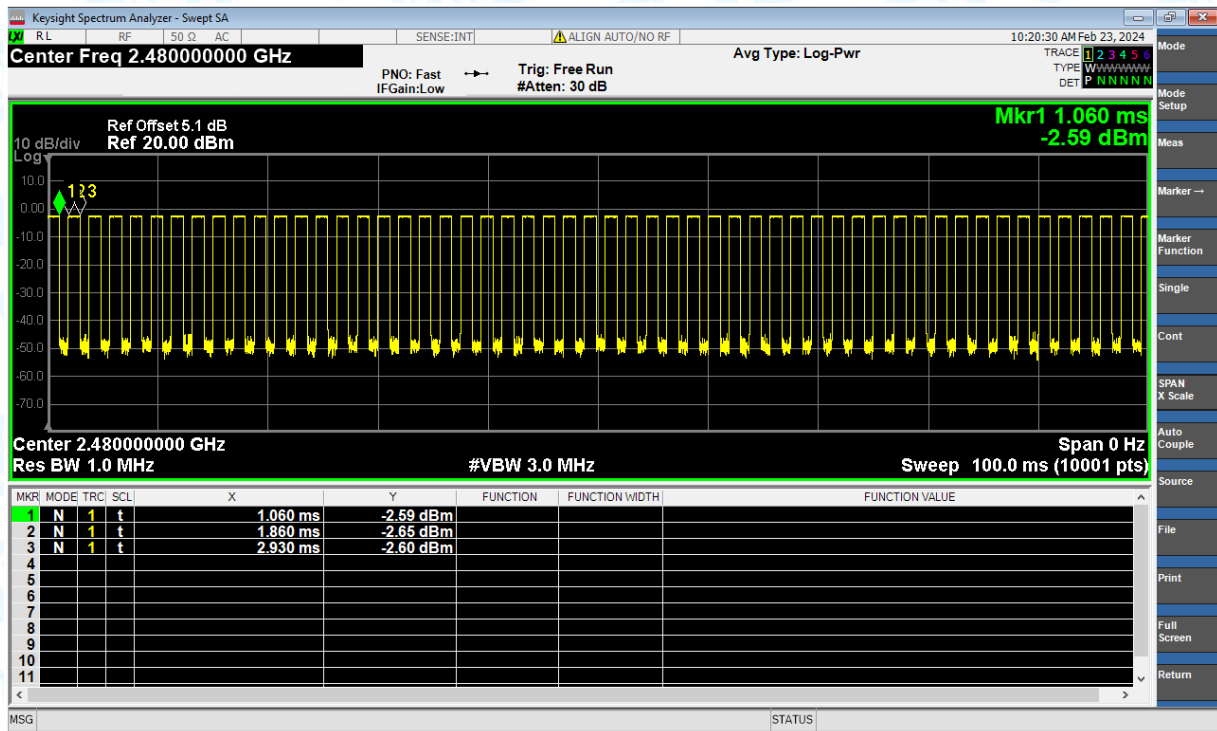




Duty Cycle NVNT BLE 2Mbps 2440MHz Ant1



Duty Cycle NVNT BLE 2Mbps 2480MHz Ant1

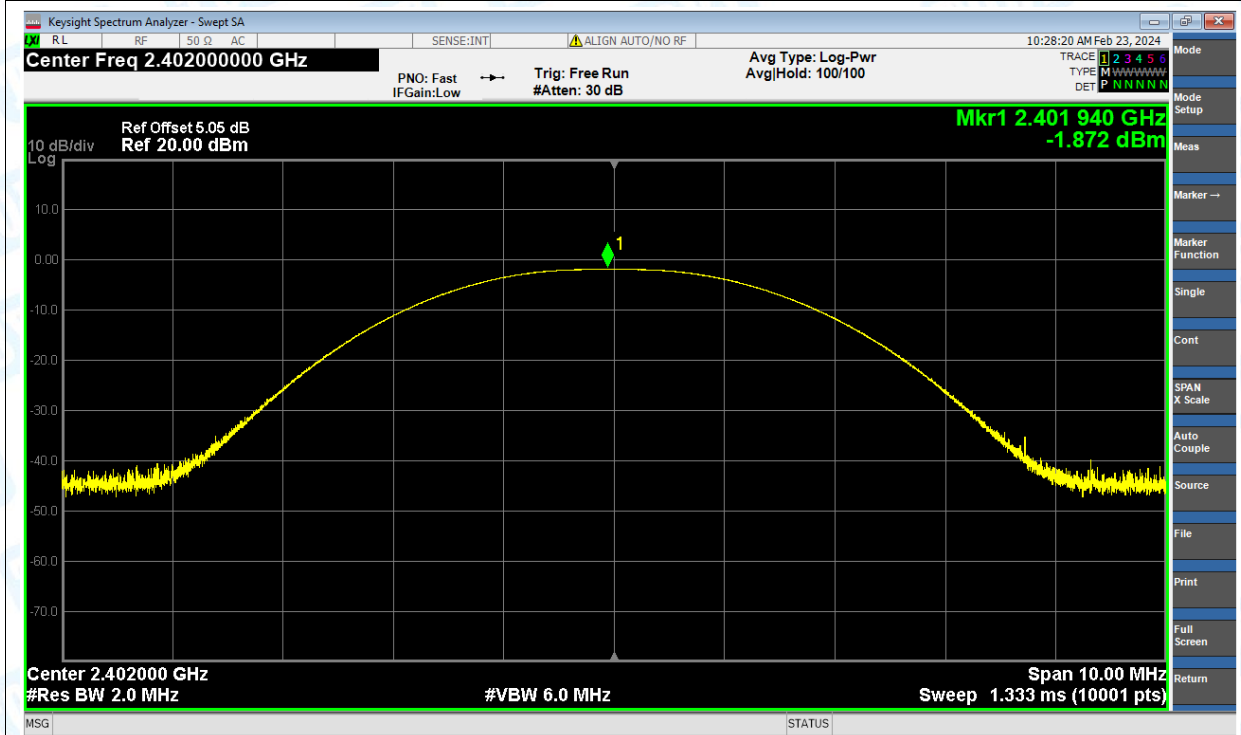


2. Maximum Conducted Output Power

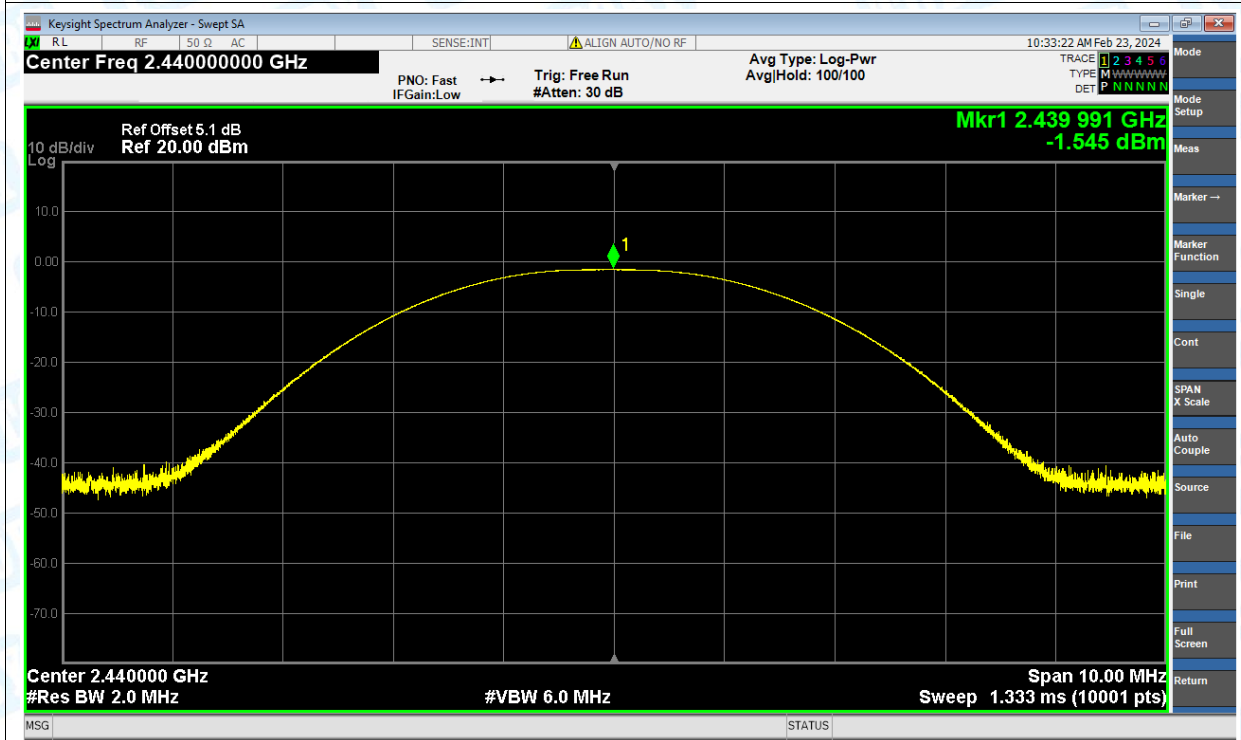
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-1.872	30	Pass
NVNT	BLE 1Mbps	2440	Ant1	-1.545	30	Pass
NVNT	BLE 1Mbps	2480	Ant1	-1.960	30	Pass
NVNT	BLE 2Mbps	2402	Ant1	-1.877	30	Pass
NVNT	BLE 2Mbps	2440	Ant1	-1.485	30	Pass
NVNT	BLE 2Mbps	2480	Ant1	-2.053	30	Pass

Test Graphs

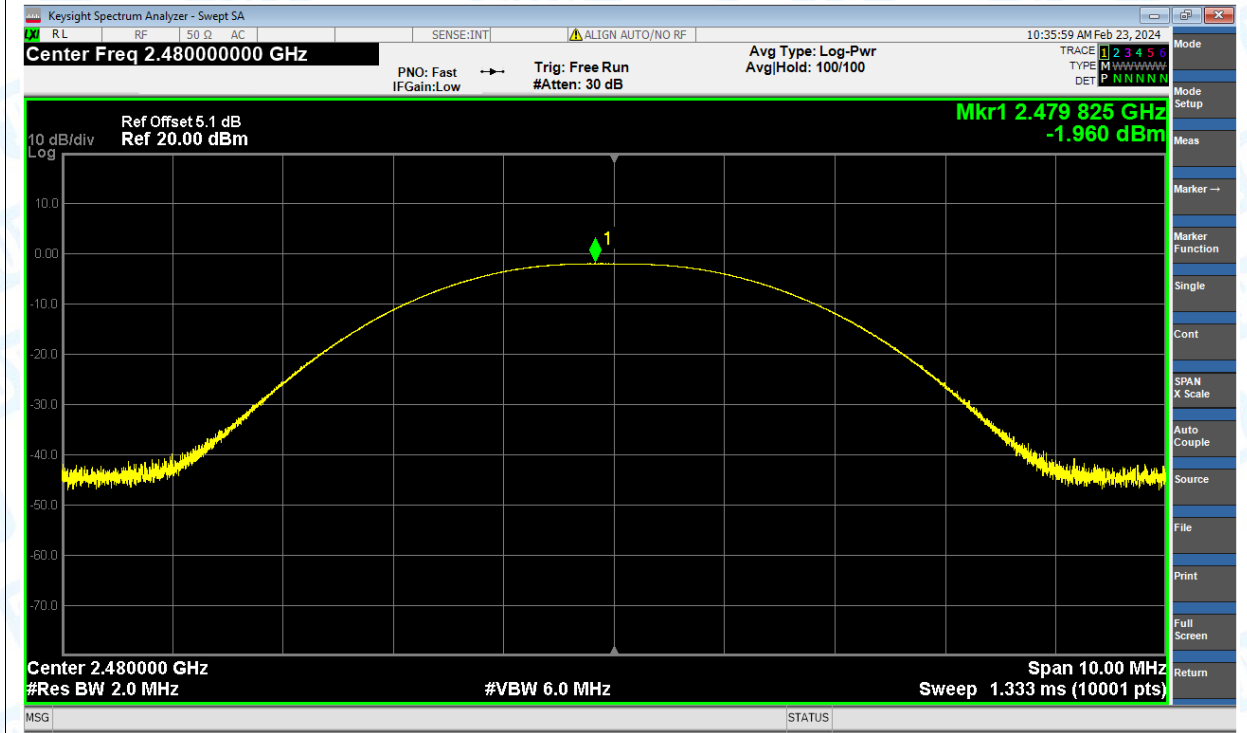
Power NVNT BLE 1Mbps 2402MHz Ant1



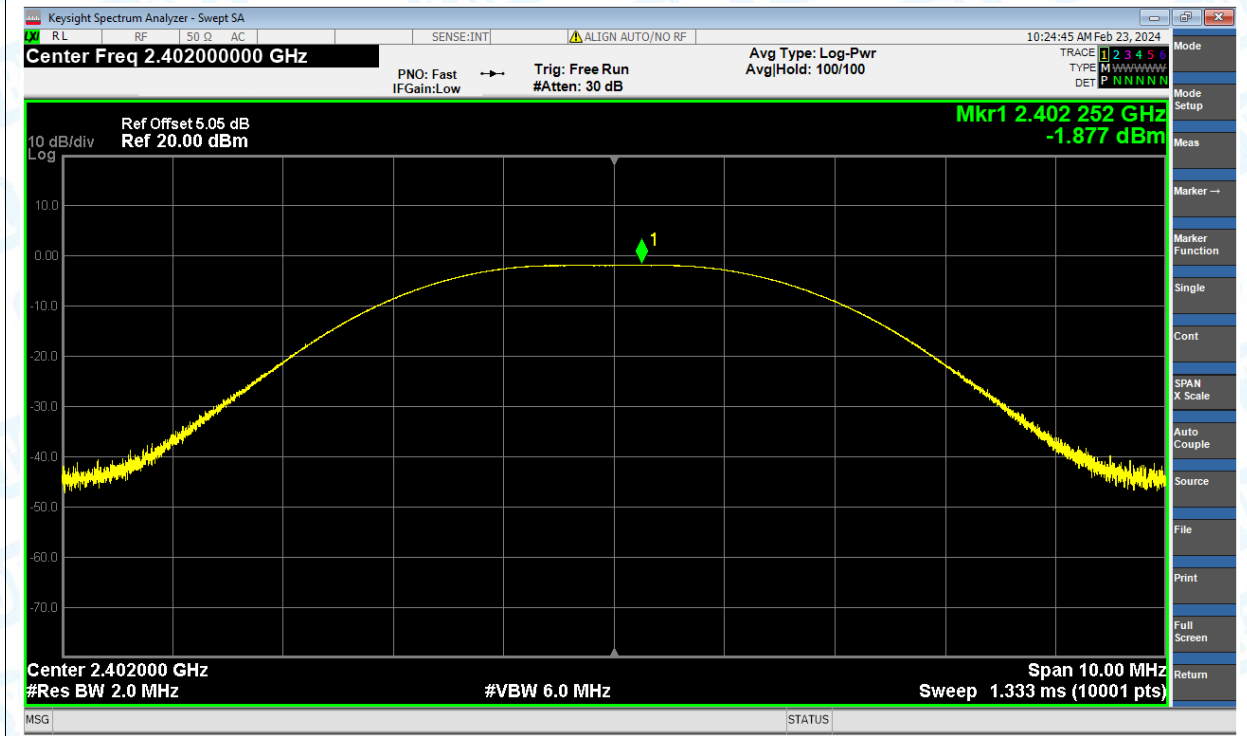
Power NVNT BLE 1Mbps 2440MHz Ant1



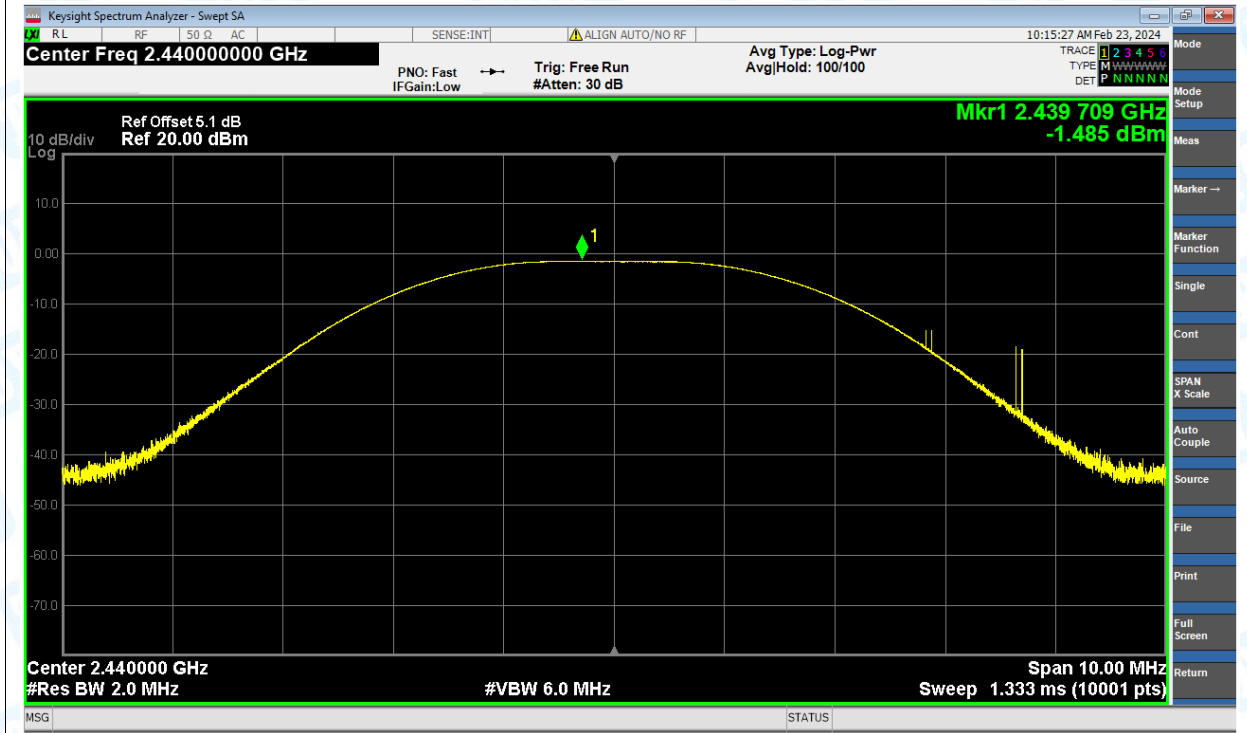
Power NVNT BLE 1Mbps 2480MHz Ant1



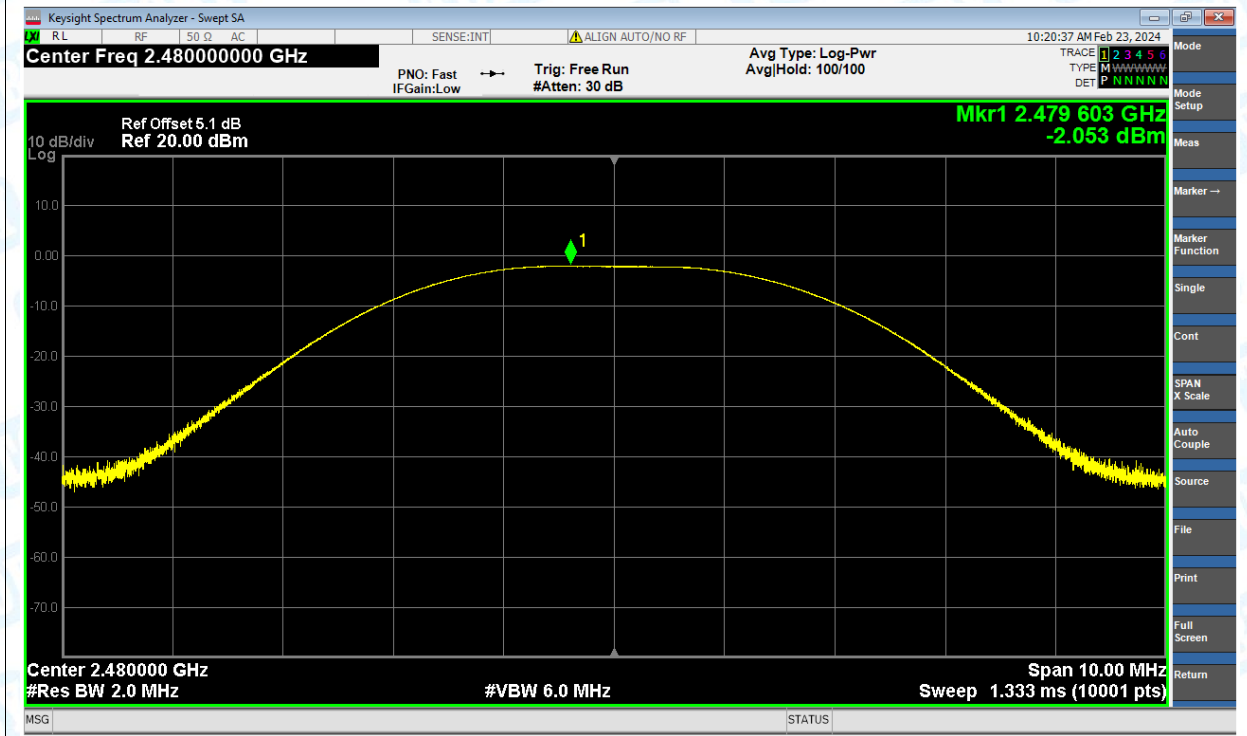
Power NVNT BLE 2Mbps 2402MHz Ant1



Power NVNT BLE 2Mbps 2440MHz Ant1



Power NVNT BLE 2Mbps 2480MHz Ant1

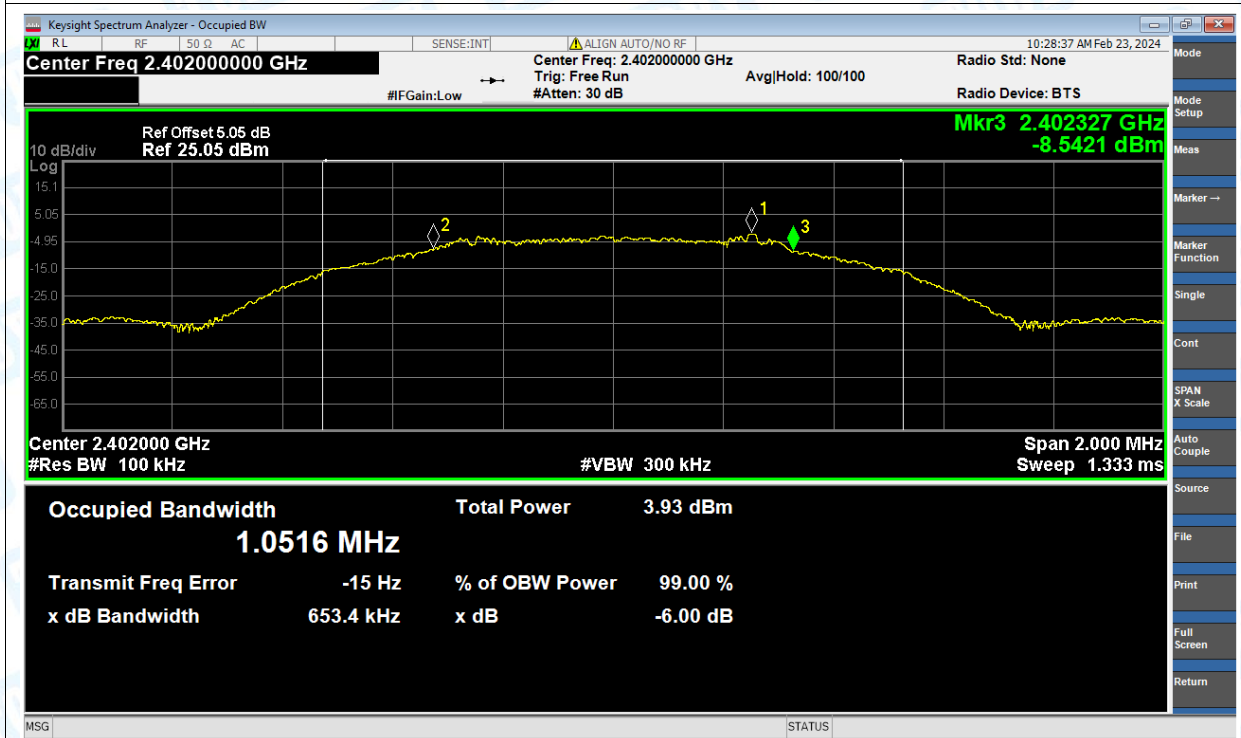


3. -6dB Bandwidth

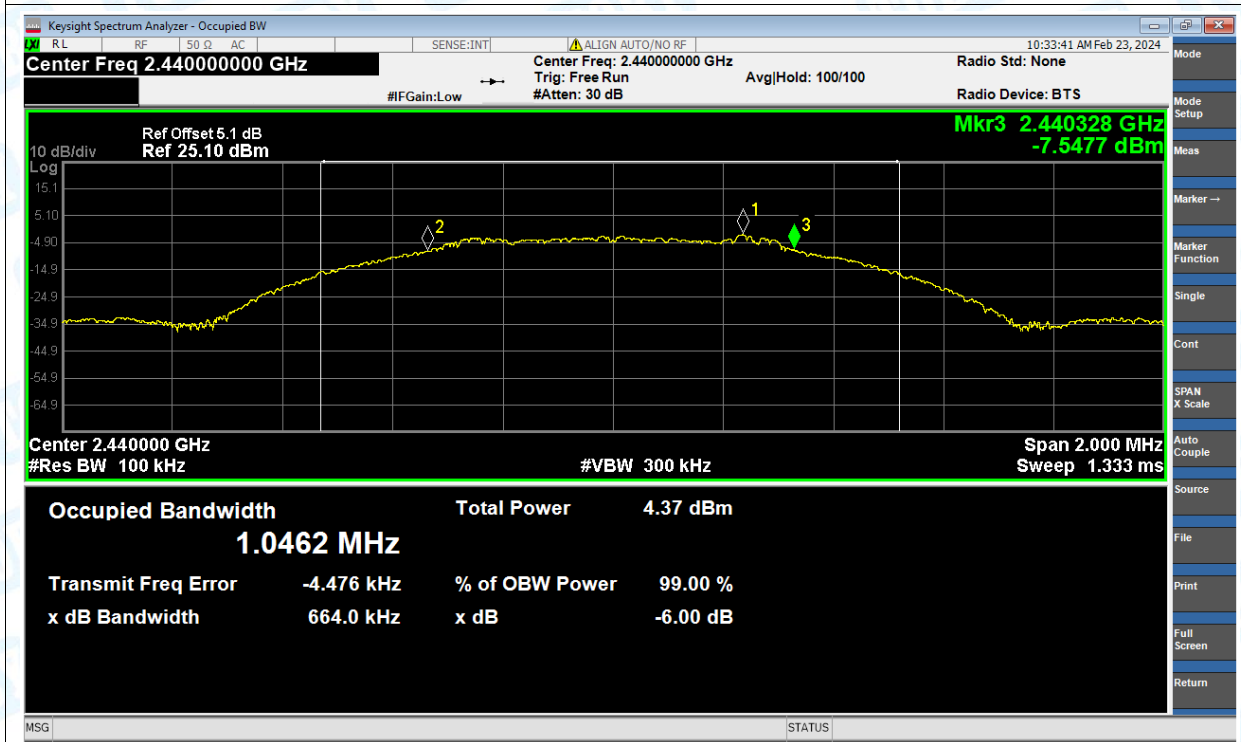
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	0.65	0.5	Pass
NVNT	BLE 1Mbps	2440	Ant1	0.66	0.5	Pass
NVNT	BLE 1Mbps	2480	Ant1	0.66	0.5	Pass
NVNT	BLE 2Mbps	2402	Ant1	1.12	0.5	Pass
NVNT	BLE 2Mbps	2440	Ant1	1.18	0.5	Pass
NVNT	BLE 2Mbps	2480	Ant1	1.11	0.5	Pass

Test Graphs

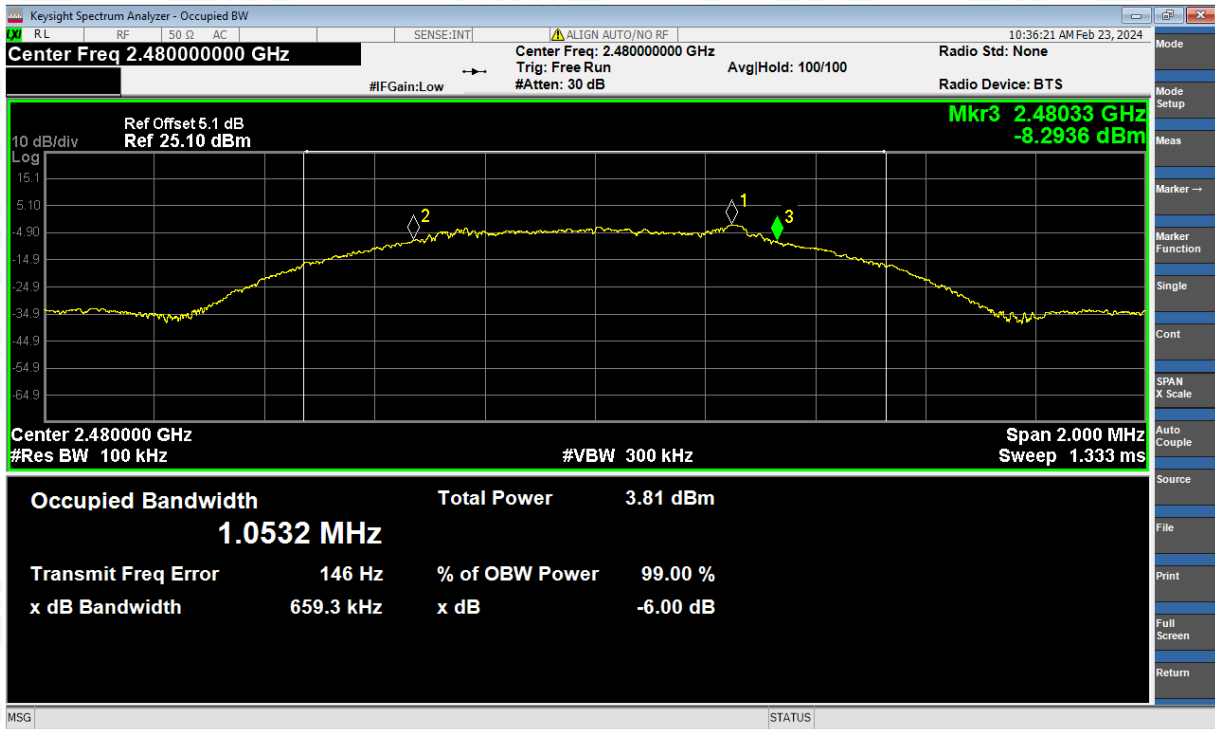
-6dB Bandwidth NVNT BLE 1Mbps 2402MHz Ant1



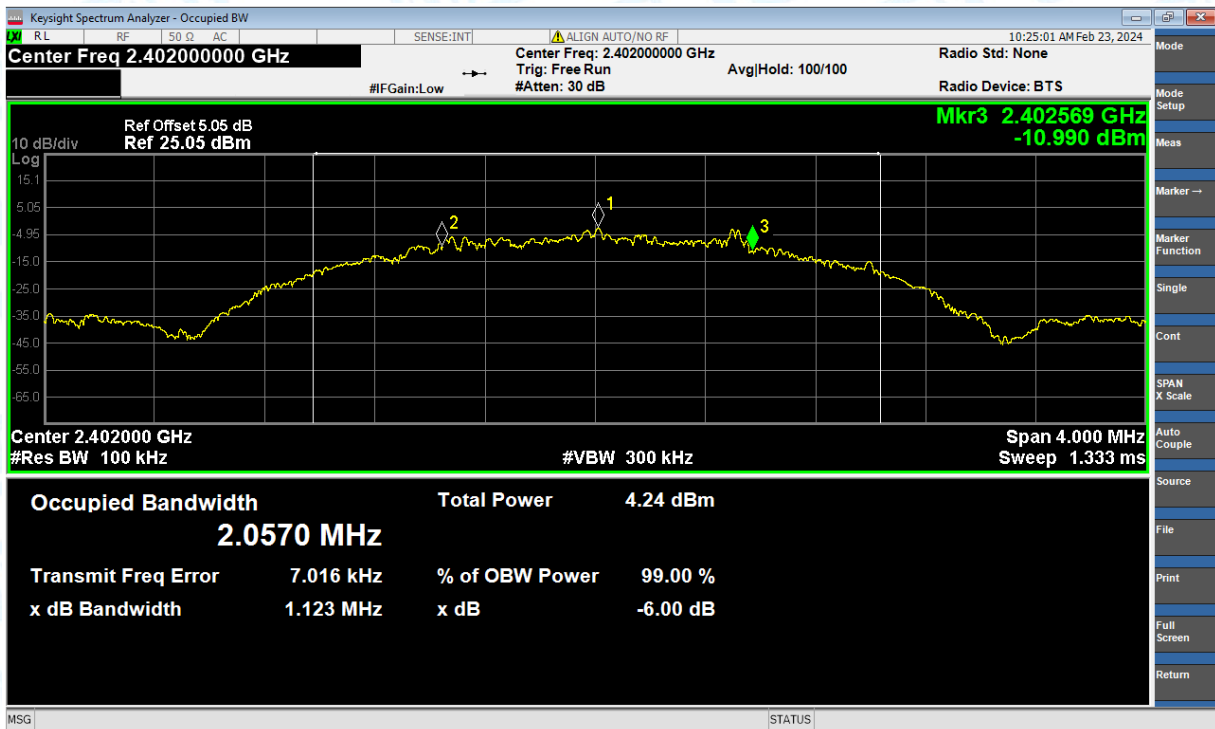
-6dB Bandwidth NVNT BLE 1Mbps 2440MHz Ant1

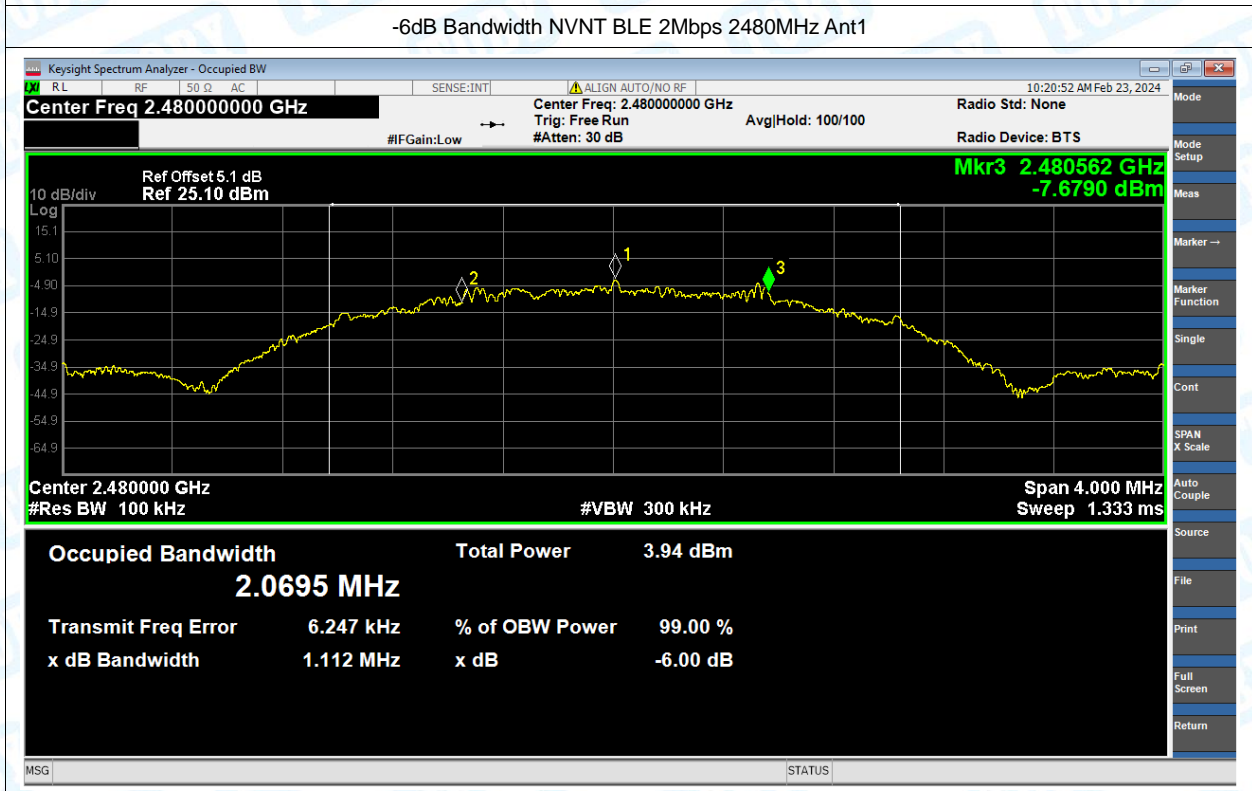
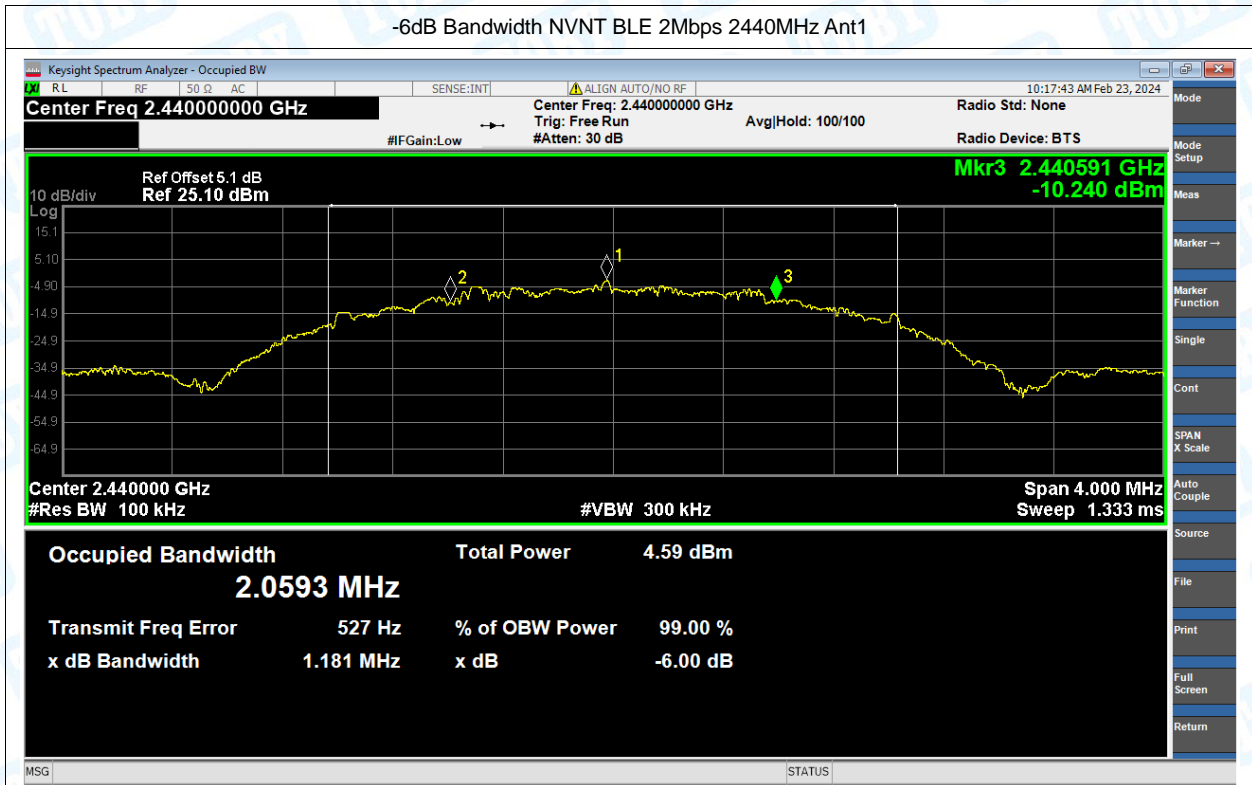


-6dB Bandwidth NVNT BLE 1Mbps 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2Mbps 2402MHz Ant1



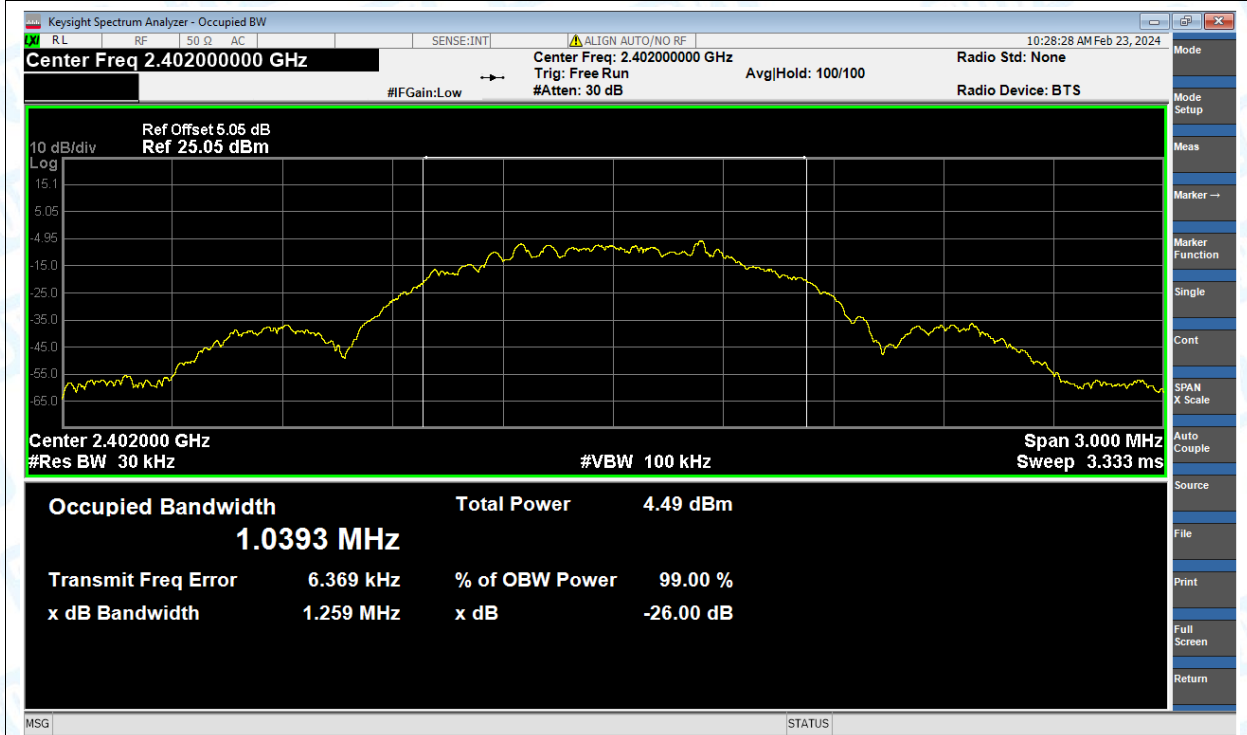


4. Occupied Channel Bandwidth

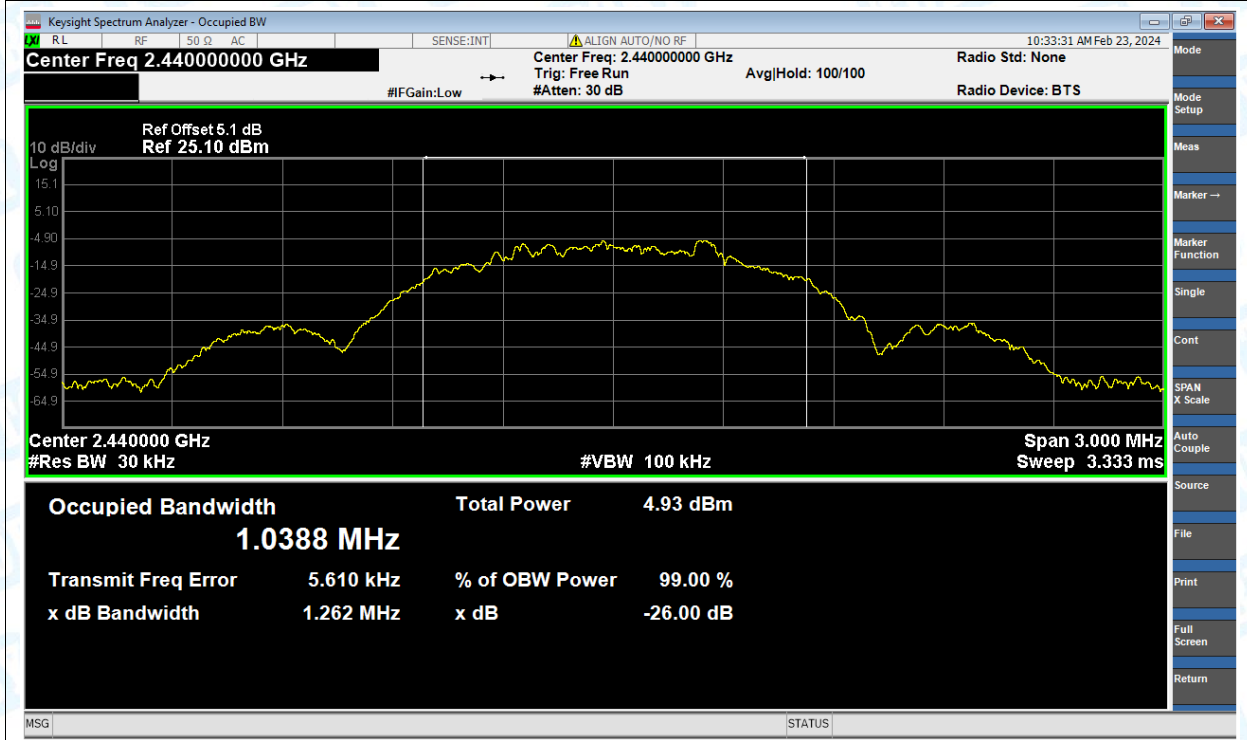
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1Mbps	2402	Ant1	1.039
NVNT	BLE 1Mbps	2440	Ant1	1.039
NVNT	BLE 1Mbps	2480	Ant1	1.040
NVNT	BLE 2Mbps	2402	Ant1	2.069
NVNT	BLE 2Mbps	2440	Ant1	2.073
NVNT	BLE 2Mbps	2480	Ant1	2.085

Test Graphs

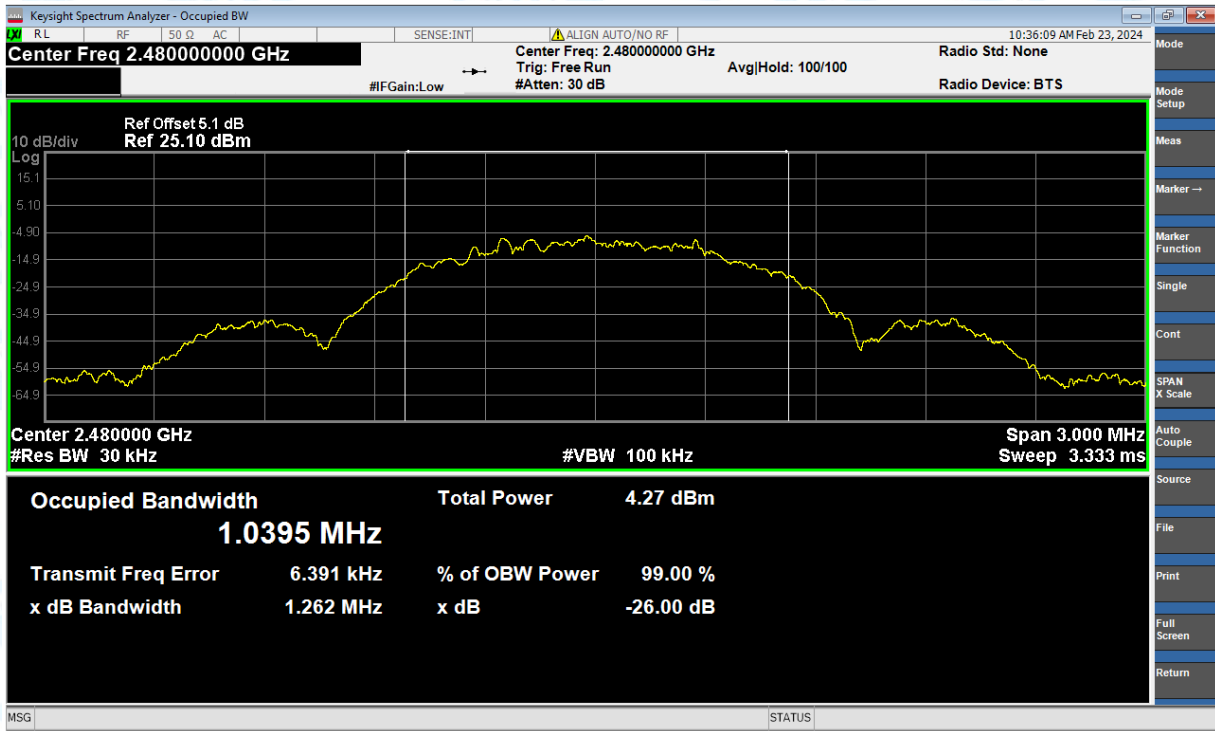
OBW NVNT BLE 1Mbps 2402MHz Ant1



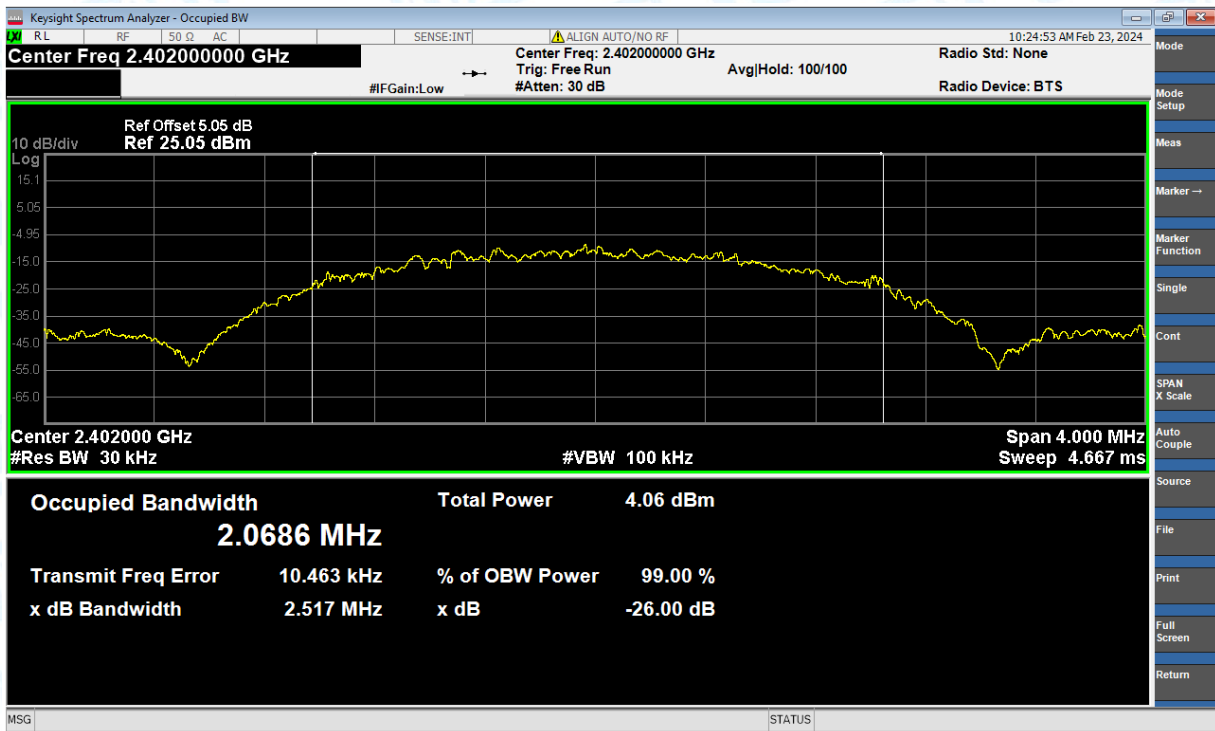
OBW NVNT BLE 1Mbps 2440MHz Ant1



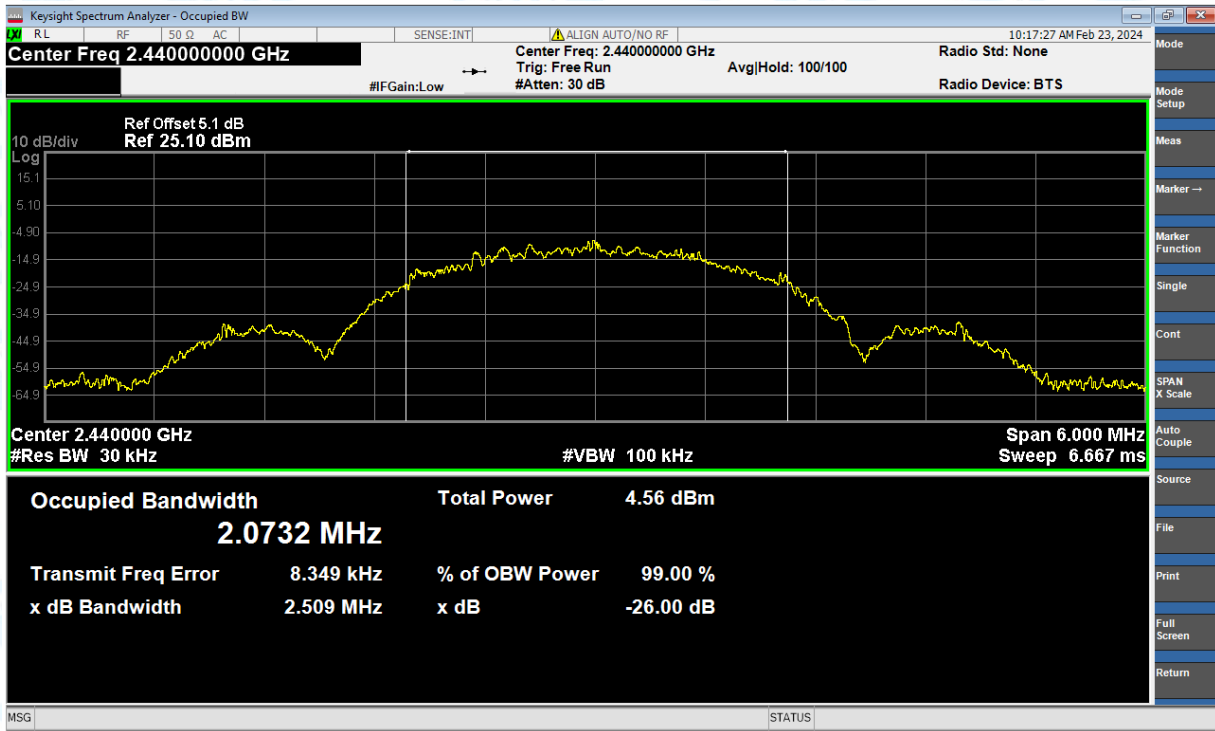
OBW NVNT BLE 1Mbps 2480MHz Ant1



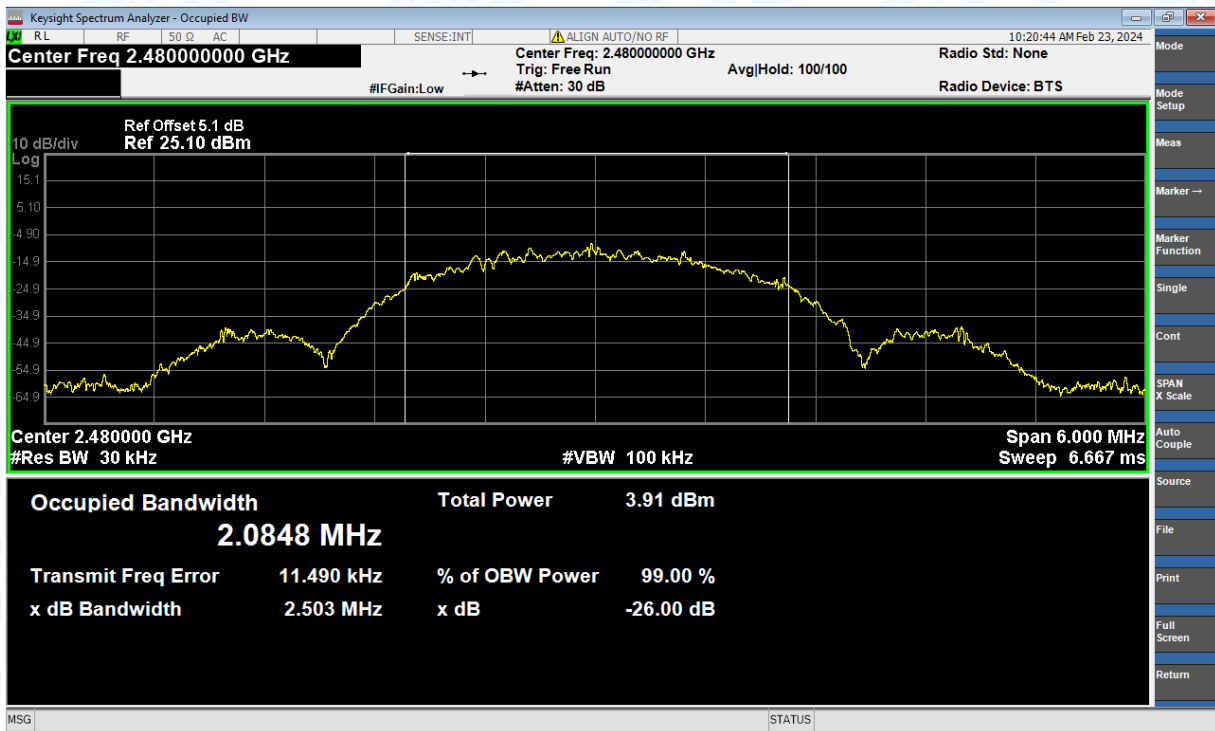
OBW NVNT BLE 2Mbps 2402MHz Ant1



OBW NVNT BLE 2Mbps 2440MHz Ant1



OBW NVNT BLE 2Mbps 2480MHz Ant1

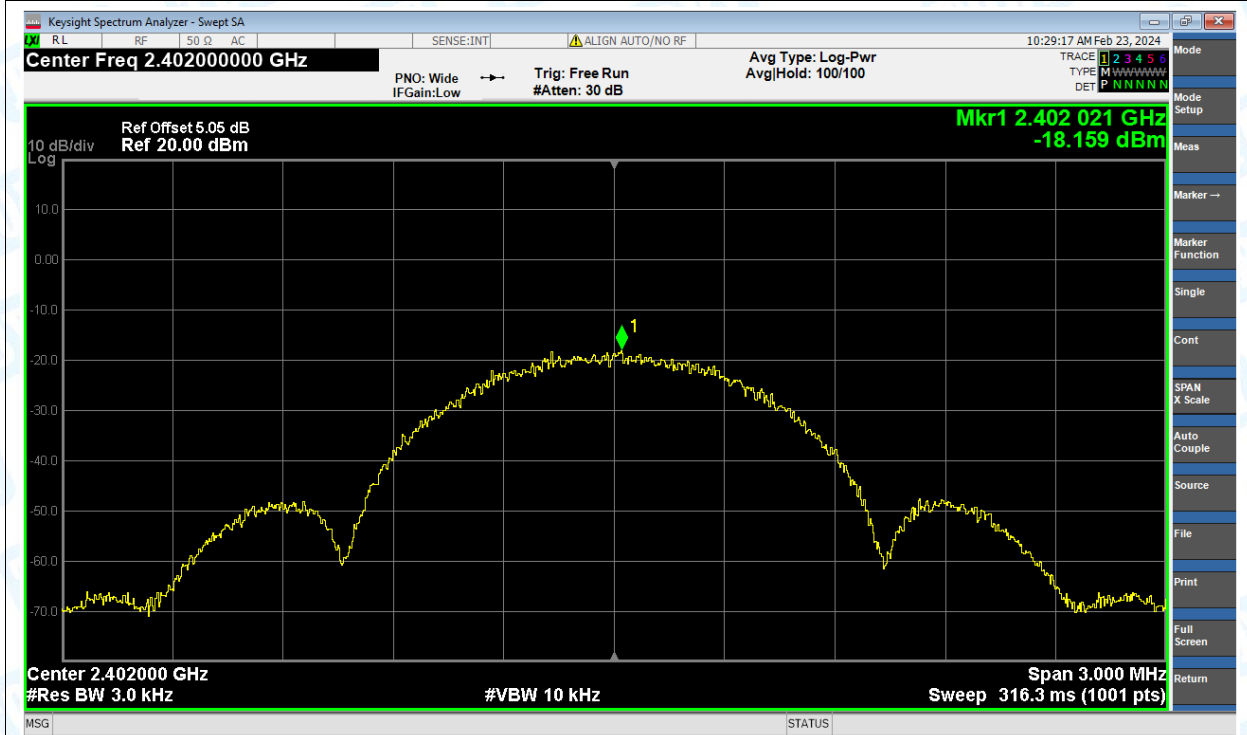


5. Maximum Power Spectral Density Level

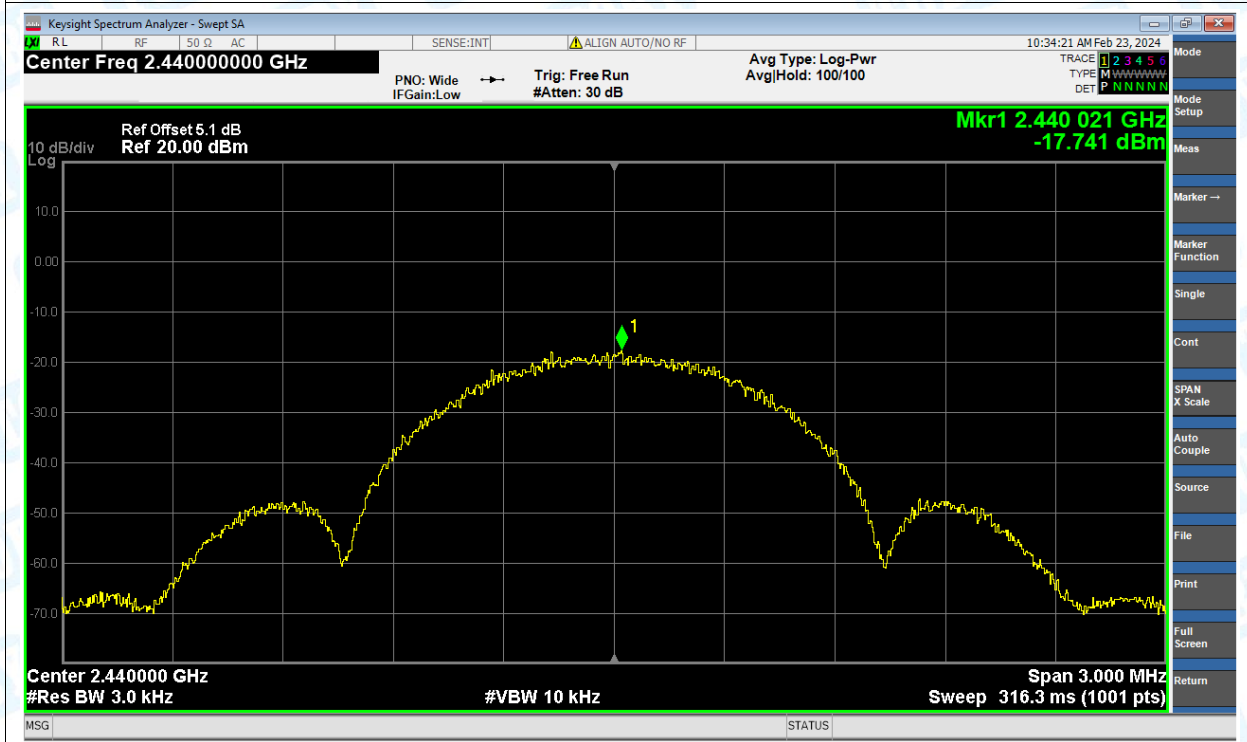
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-18.159	8	Pass
NVNT	BLE 1Mbps	2440	Ant1	-17.741	8	Pass
NVNT	BLE 1Mbps	2480	Ant1	-18.184	8	Pass
NVNT	BLE 2Mbps	2402	Ant1	-20.607	8	Pass
NVNT	BLE 2Mbps	2440	Ant1	-20.123	8	Pass
NVNT	BLE 2Mbps	2480	Ant1	-20.795	8	Pass

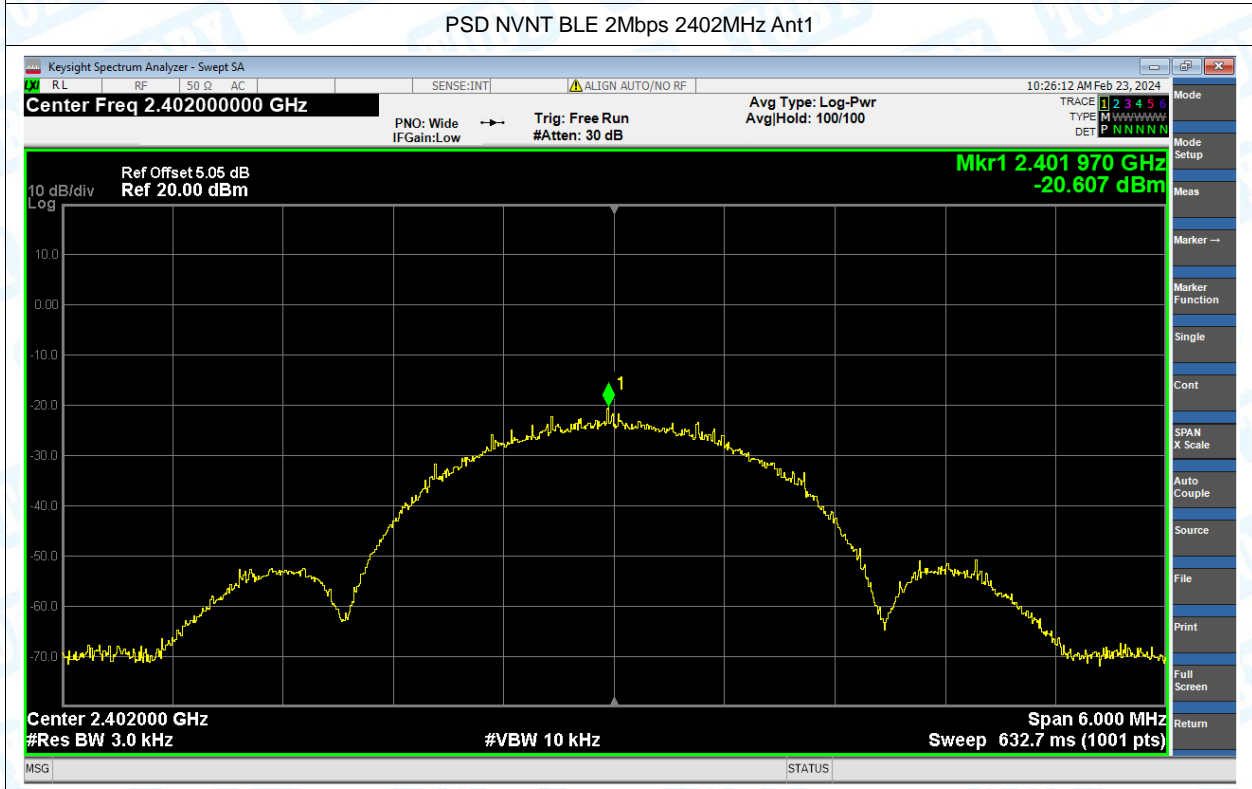
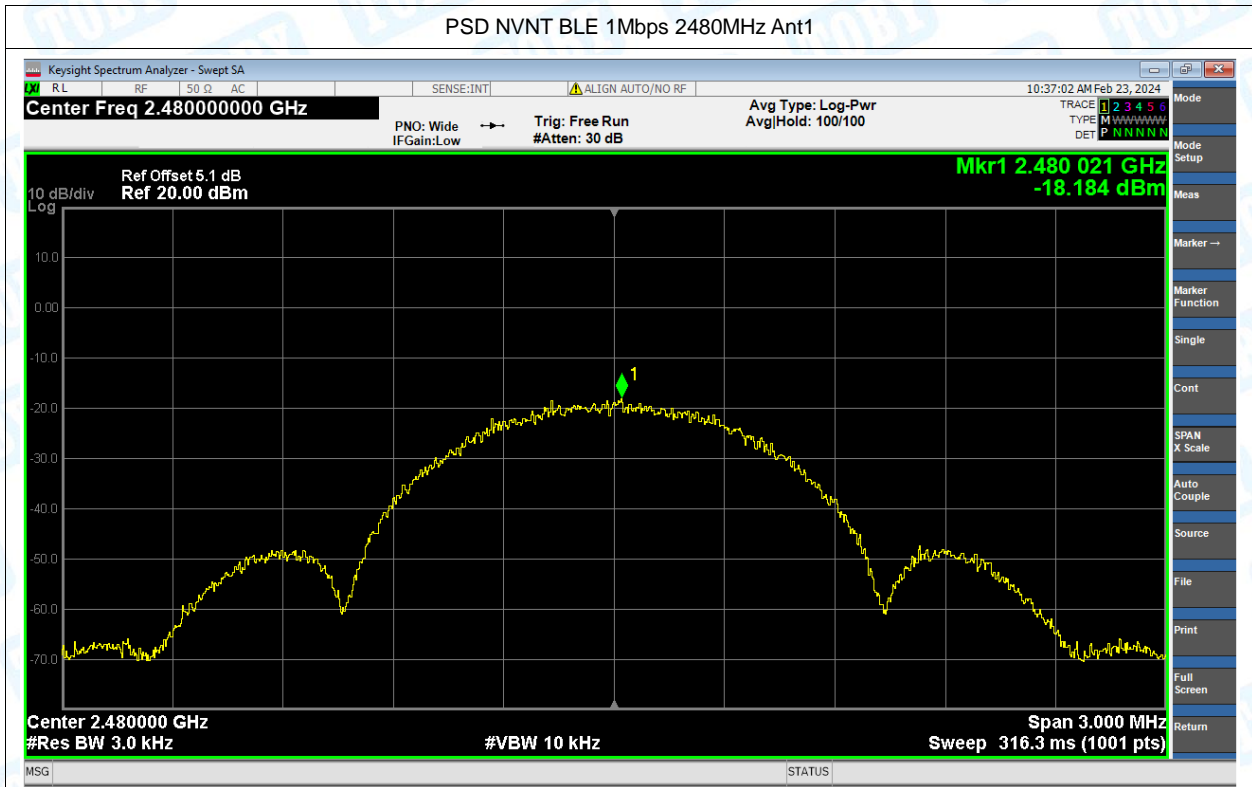
Test Graphs

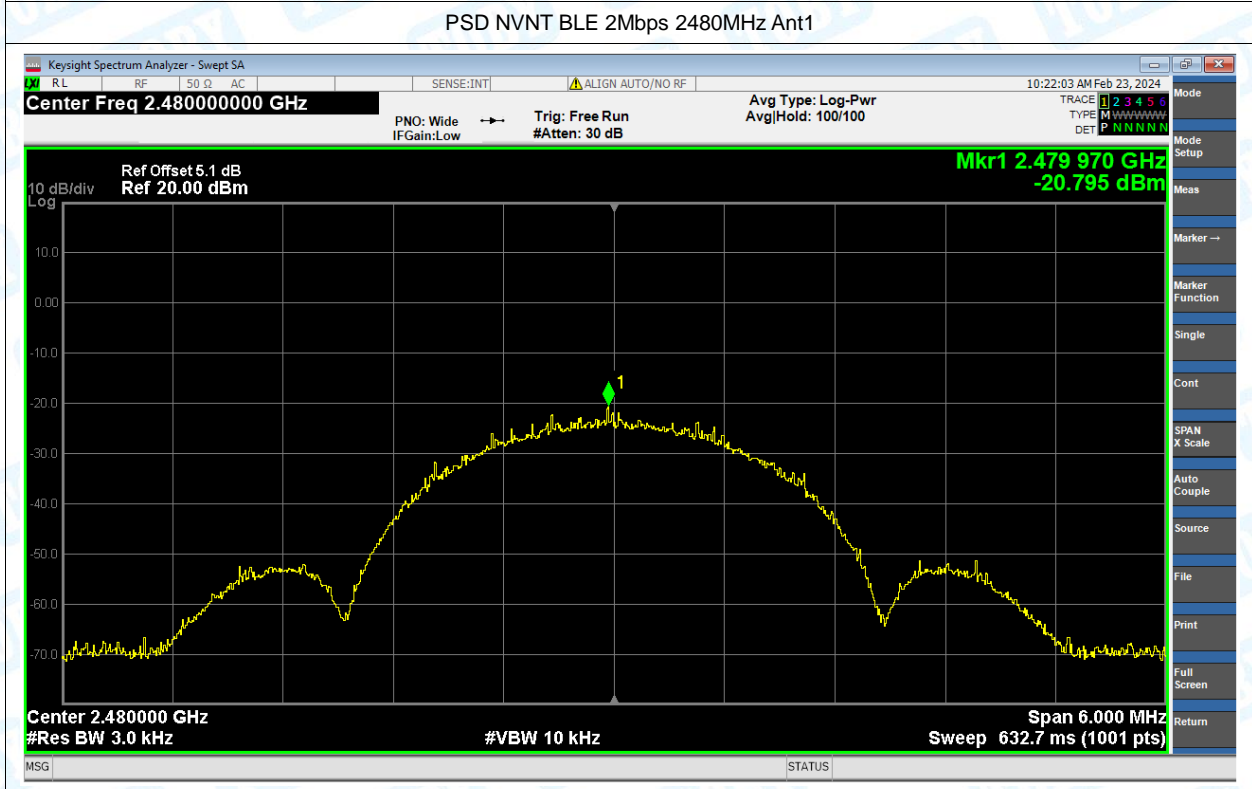
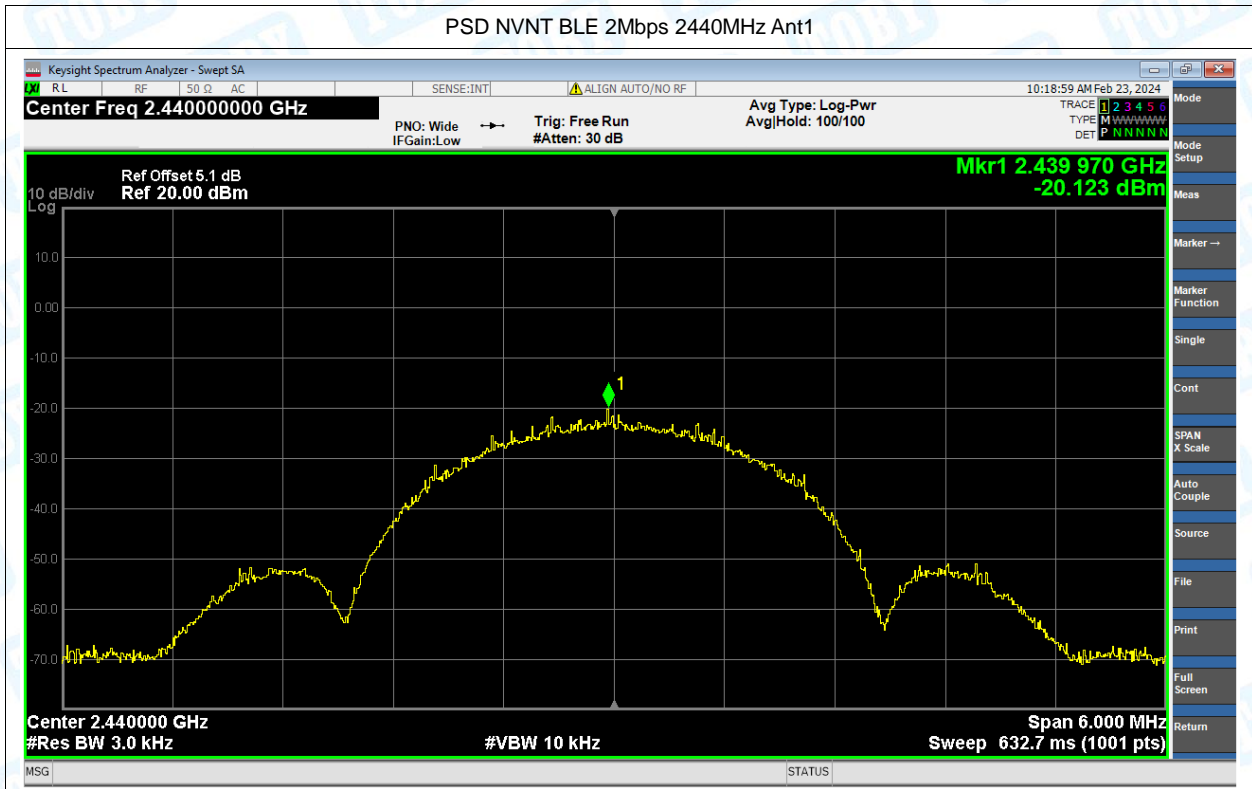
PSD NVNT BLE 1Mbps 2402MHz Ant1



PSD NVNT BLE 1Mbps 2440MHz Ant1





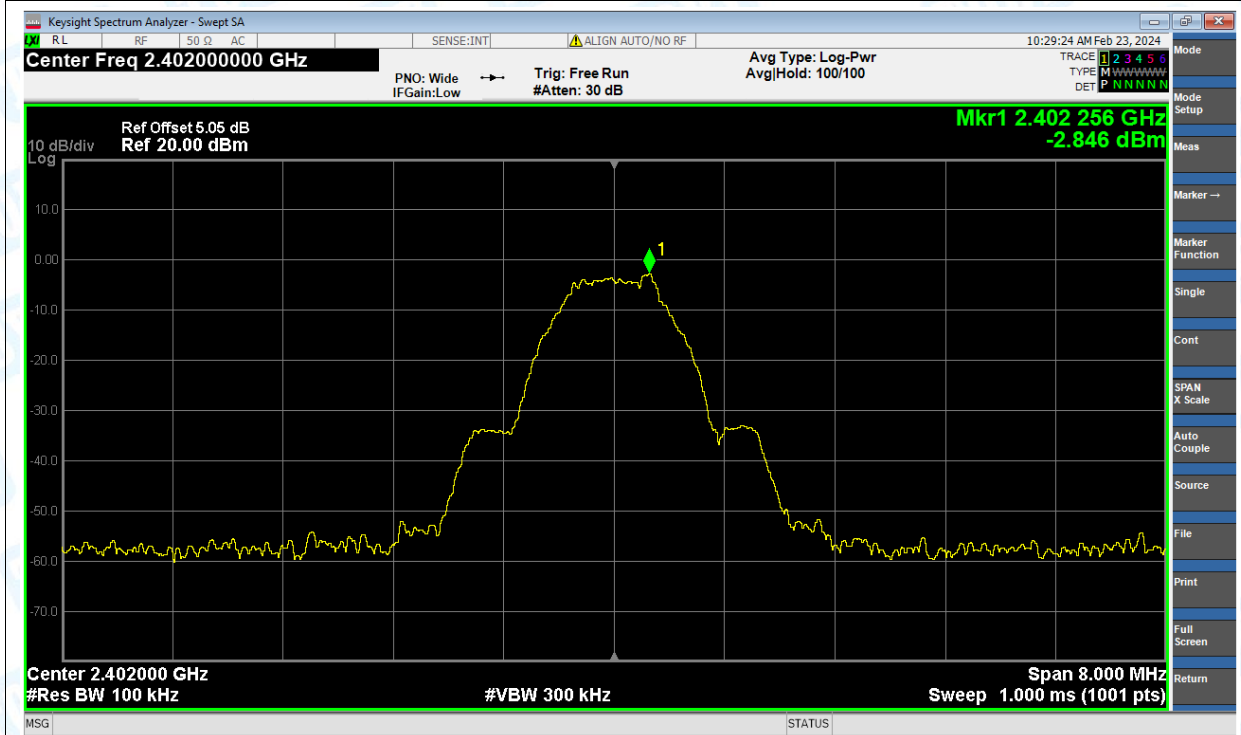


6. Band Edge

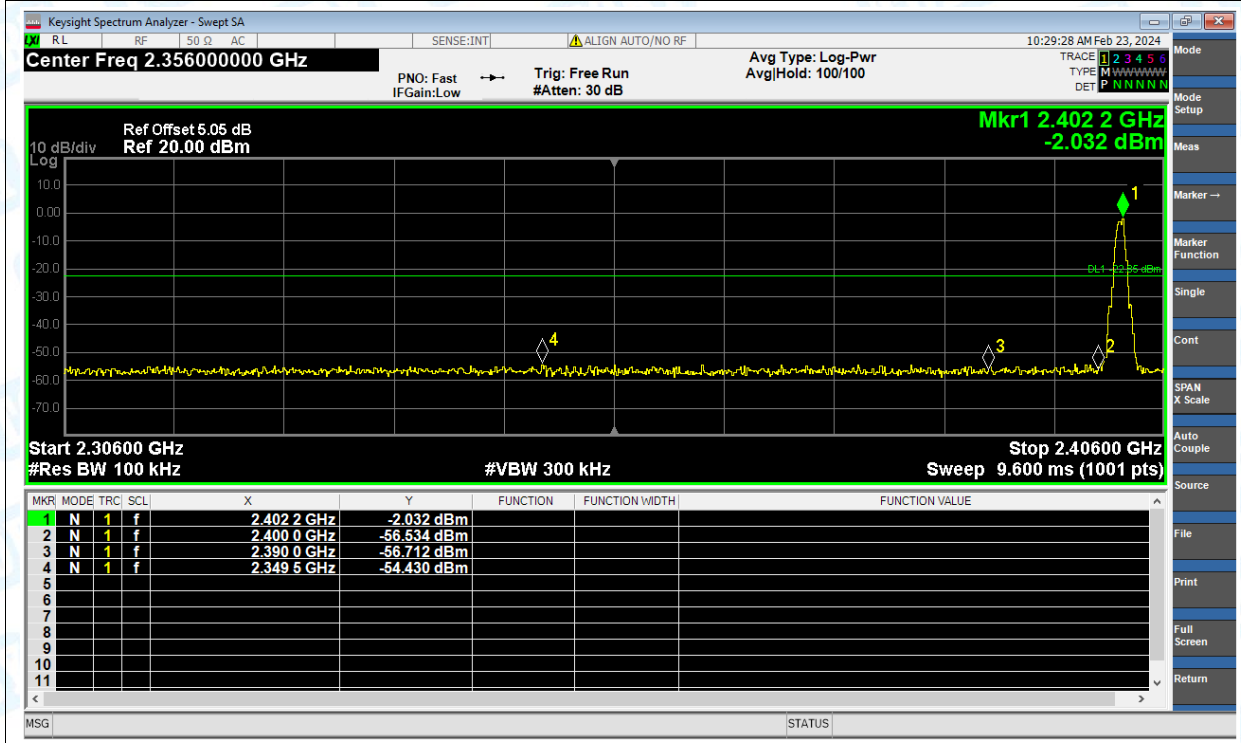
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-51.58	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-51.54	-20	Pass
NVNT	BLE 2Mbps	2402	Ant1	-51.02	-20	Pass
NVNT	BLE 2Mbps	2480	Ant1	-51.10	-20	Pass

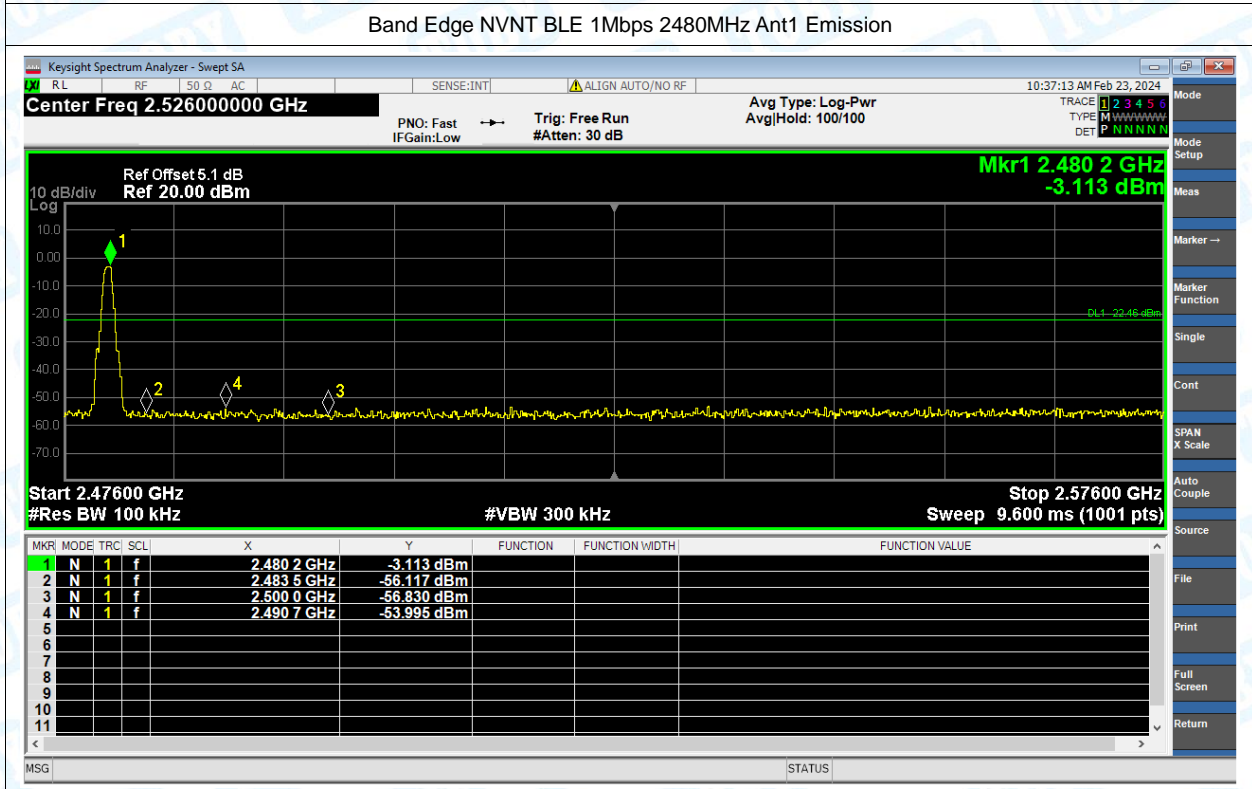
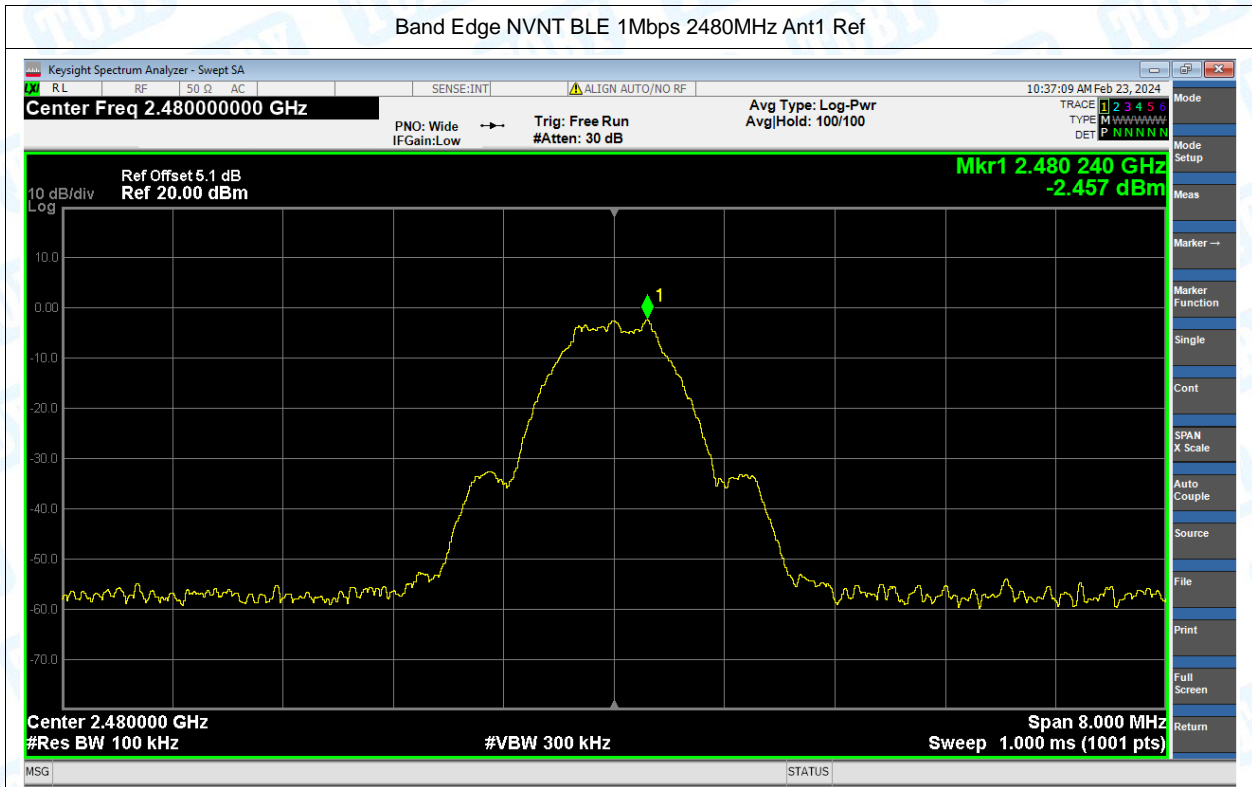
Test Graphs

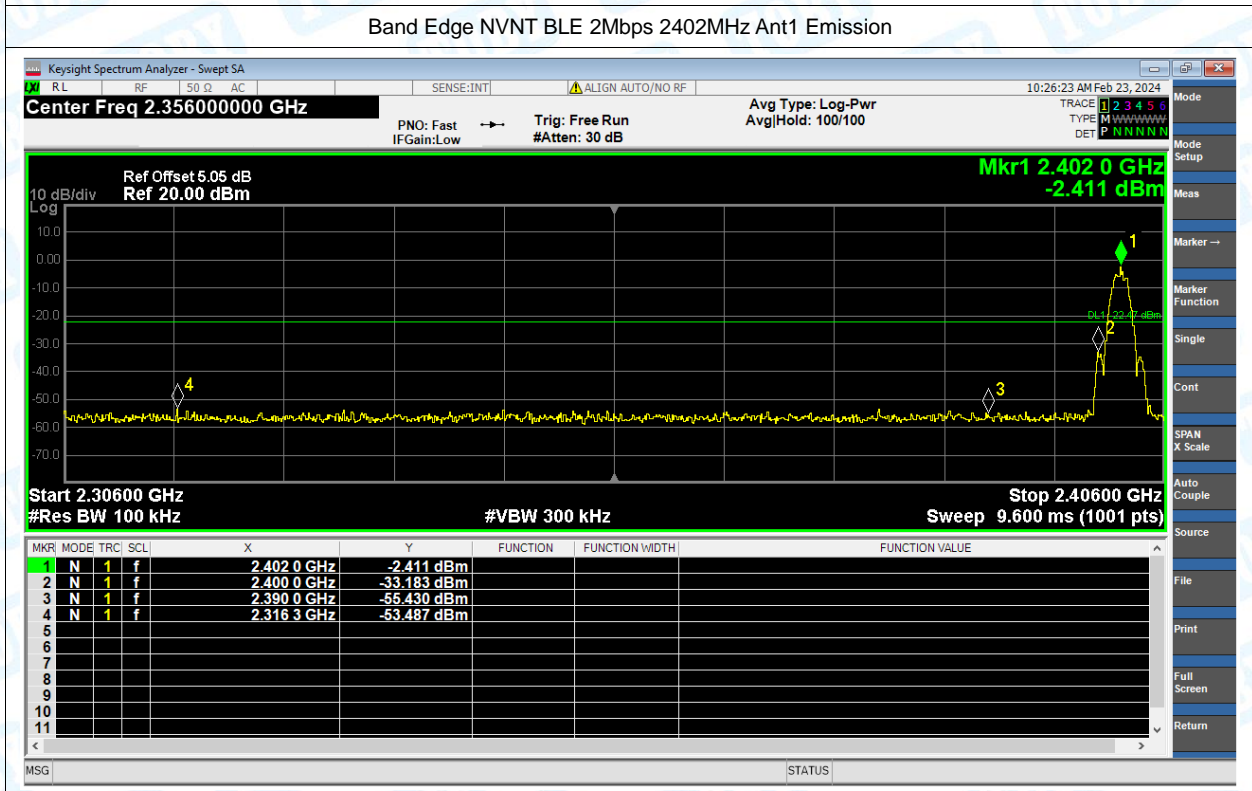
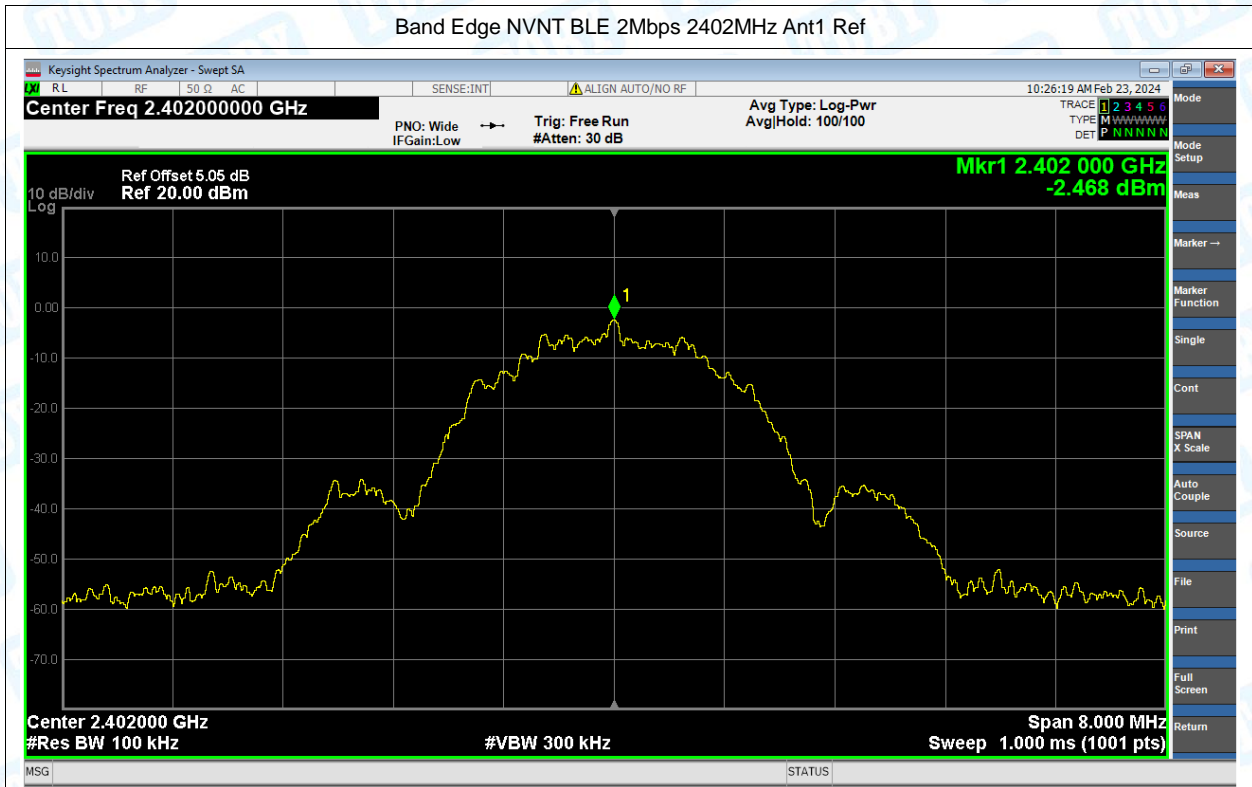
Band Edge NVNT BLE 1Mbps 2402MHz Ant1 Ref

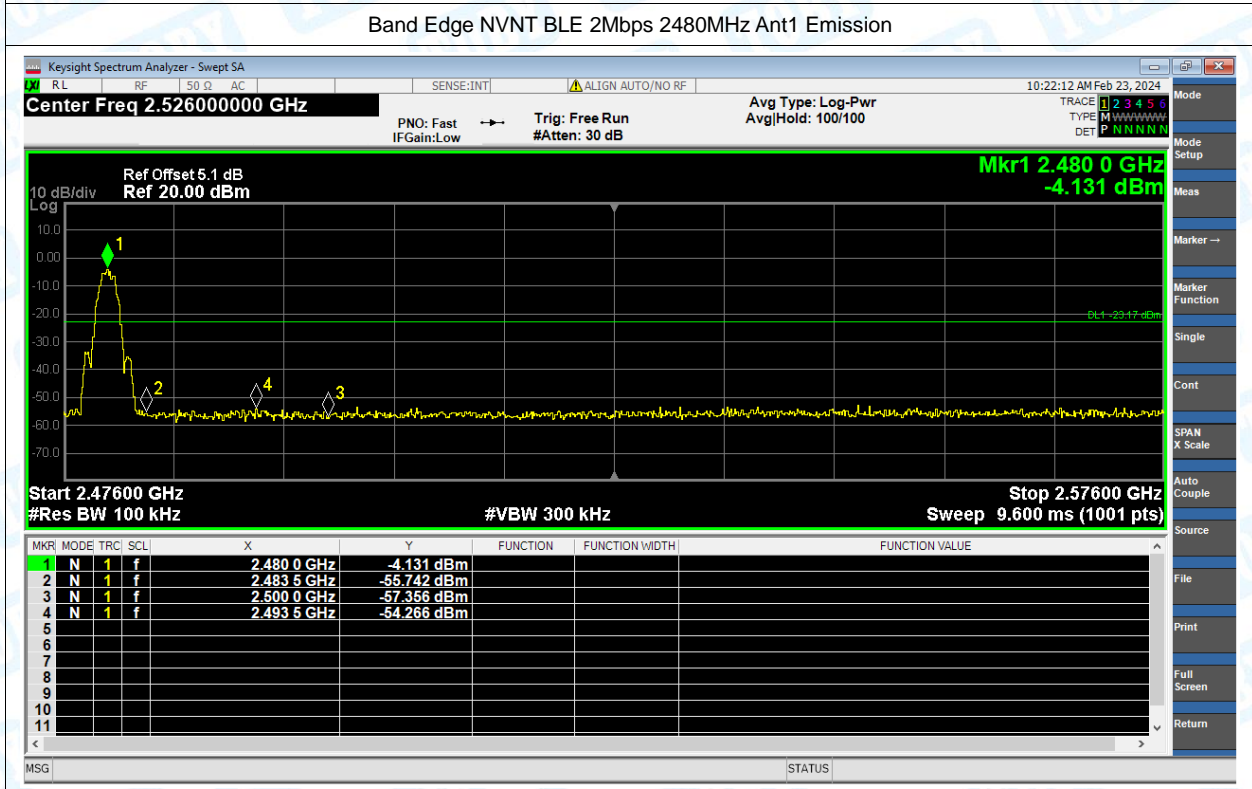
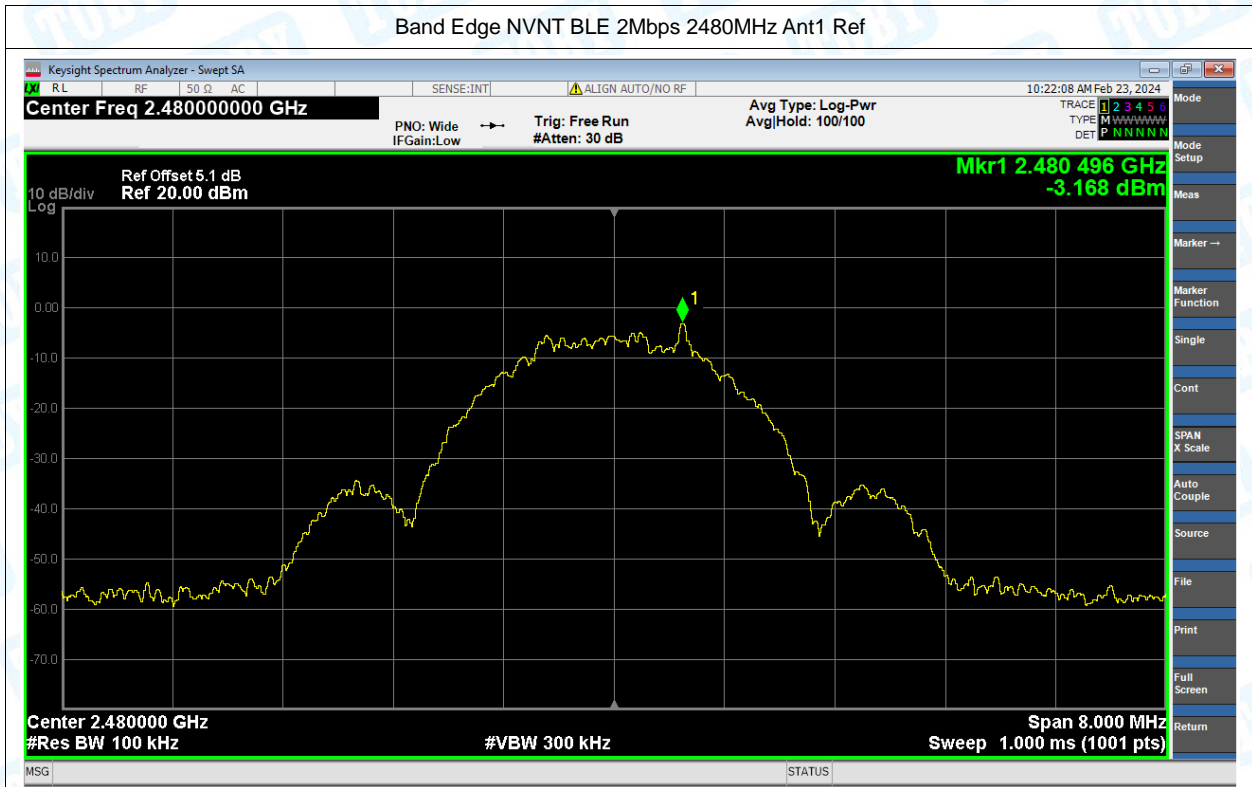


Band Edge NVNT BLE 1Mbps 2402MHz Ant1 Emission







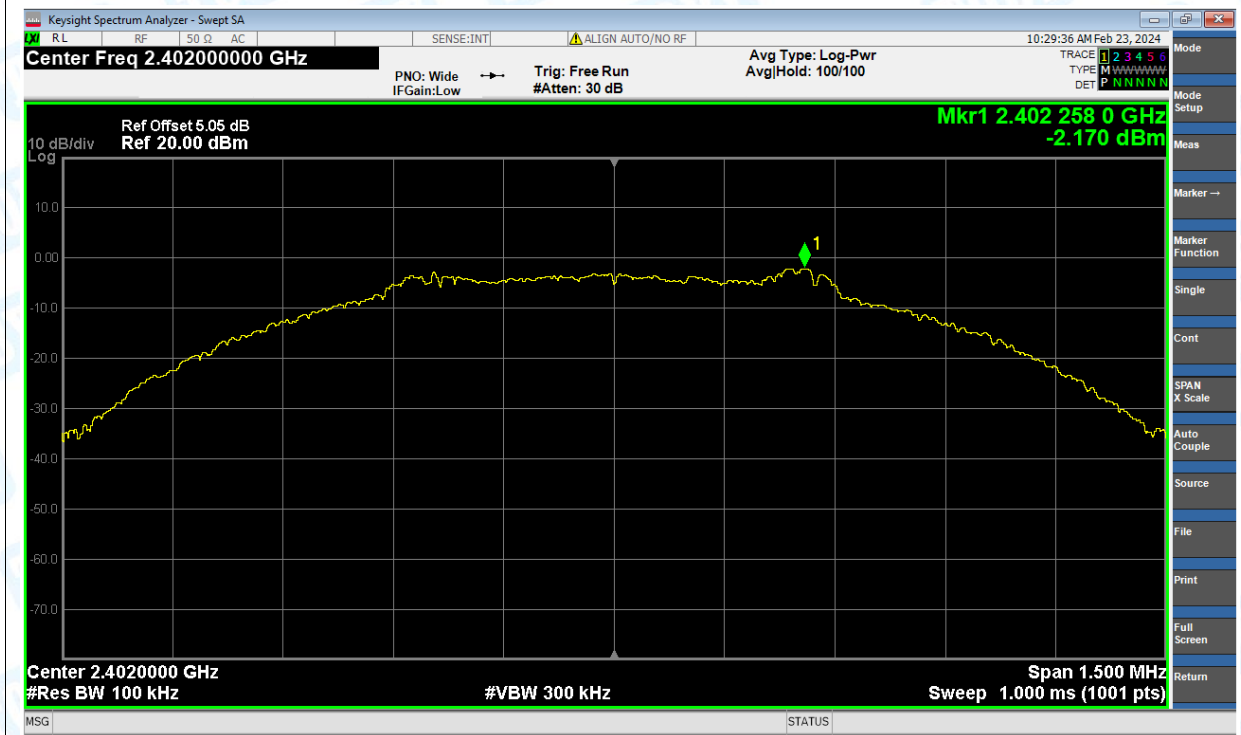


7. Conducted RF Spurious Emission

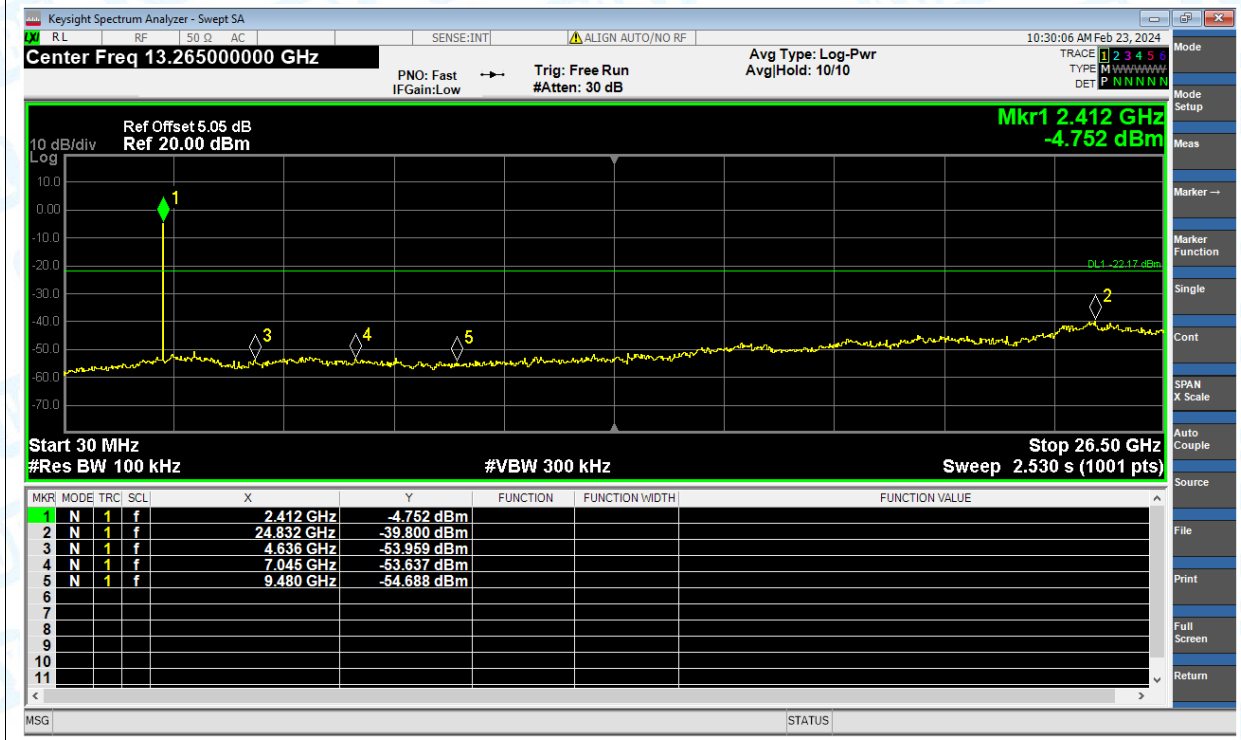
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-37.63	-20	Pass
NVNT	BLE 1Mbps	2440	Ant1	-36.83	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-37.19	-20	Pass
NVNT	BLE 2Mbps	2402	Ant1	-36.83	-20	Pass
NVNT	BLE 2Mbps	2440	Ant1	-37.43	-20	Pass
NVNT	BLE 2Mbps	2480	Ant1	-36.44	-20	Pass

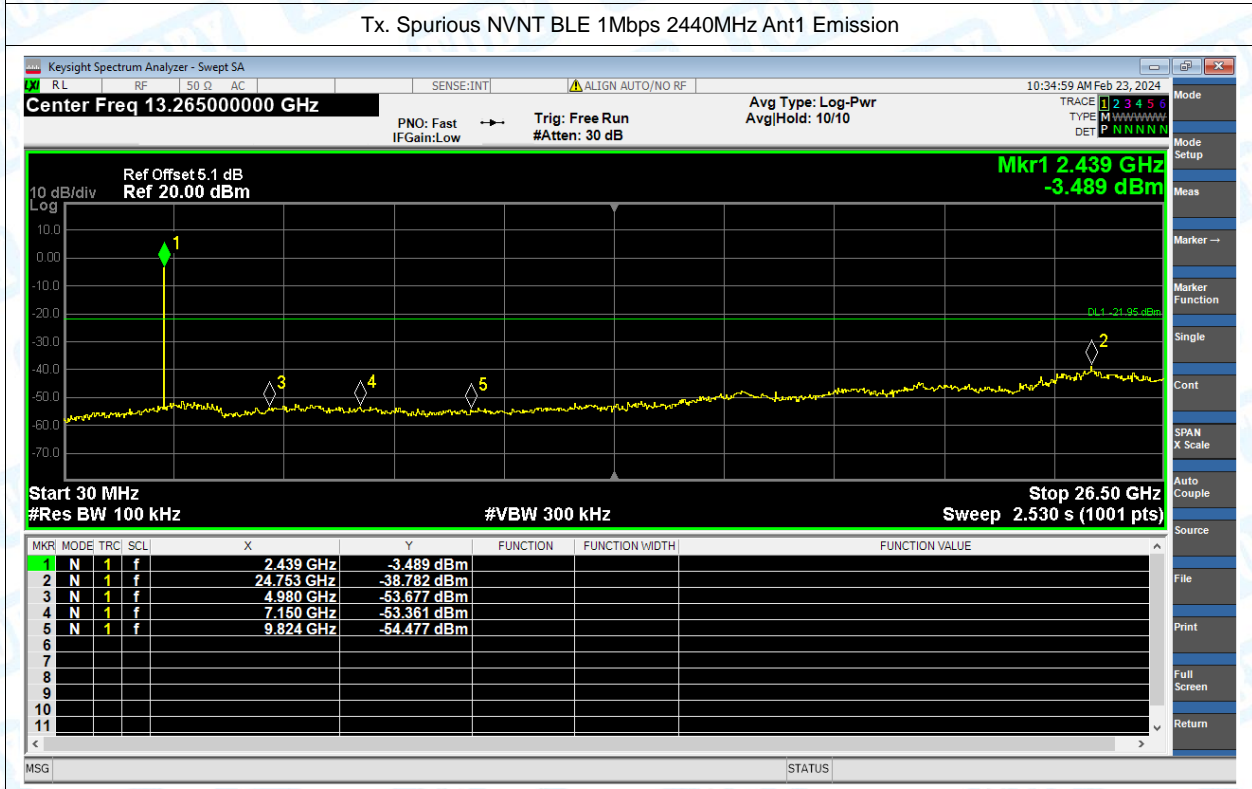
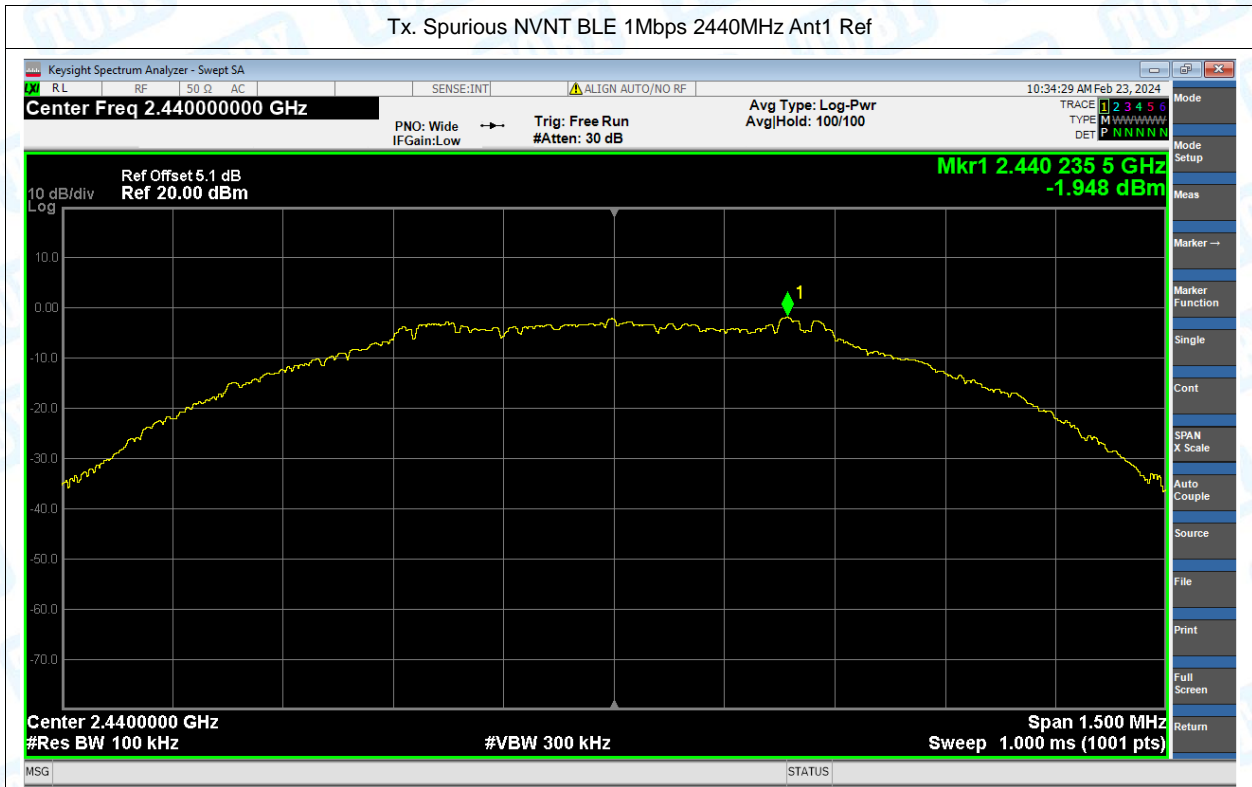
Test Graphs

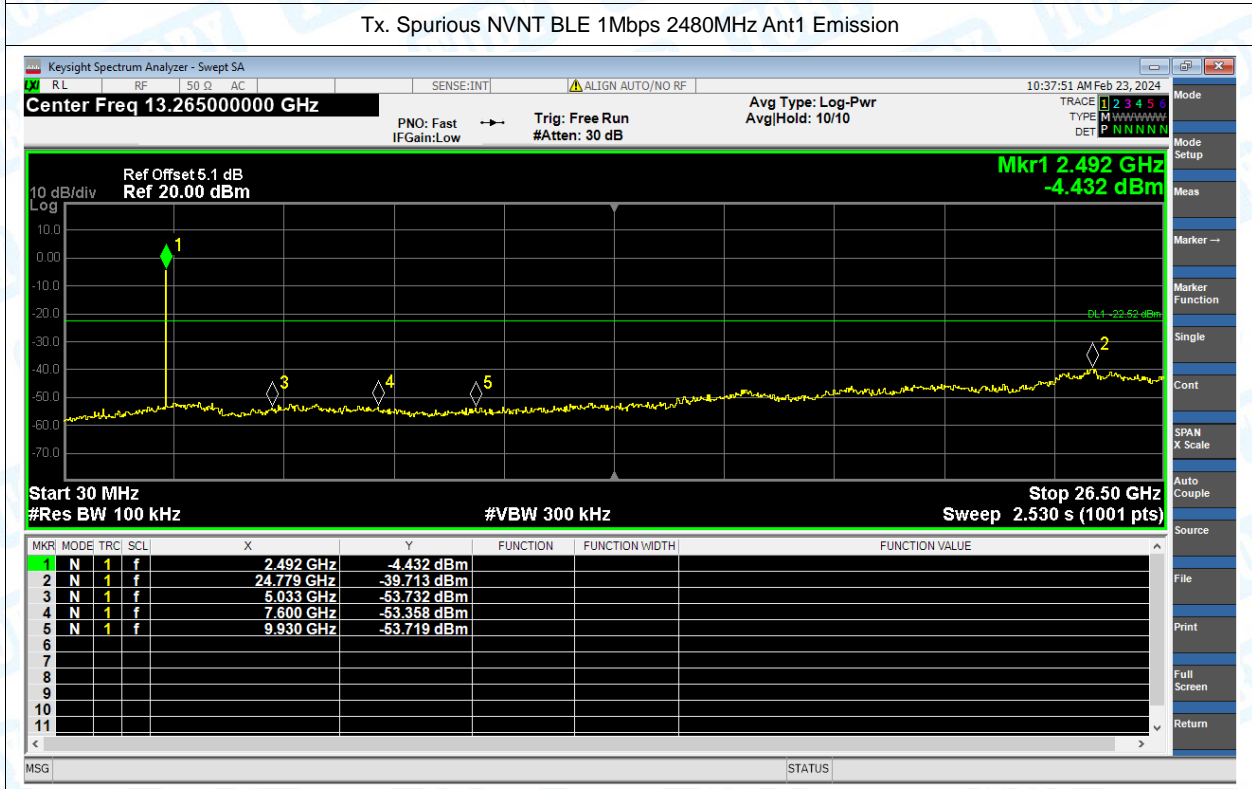
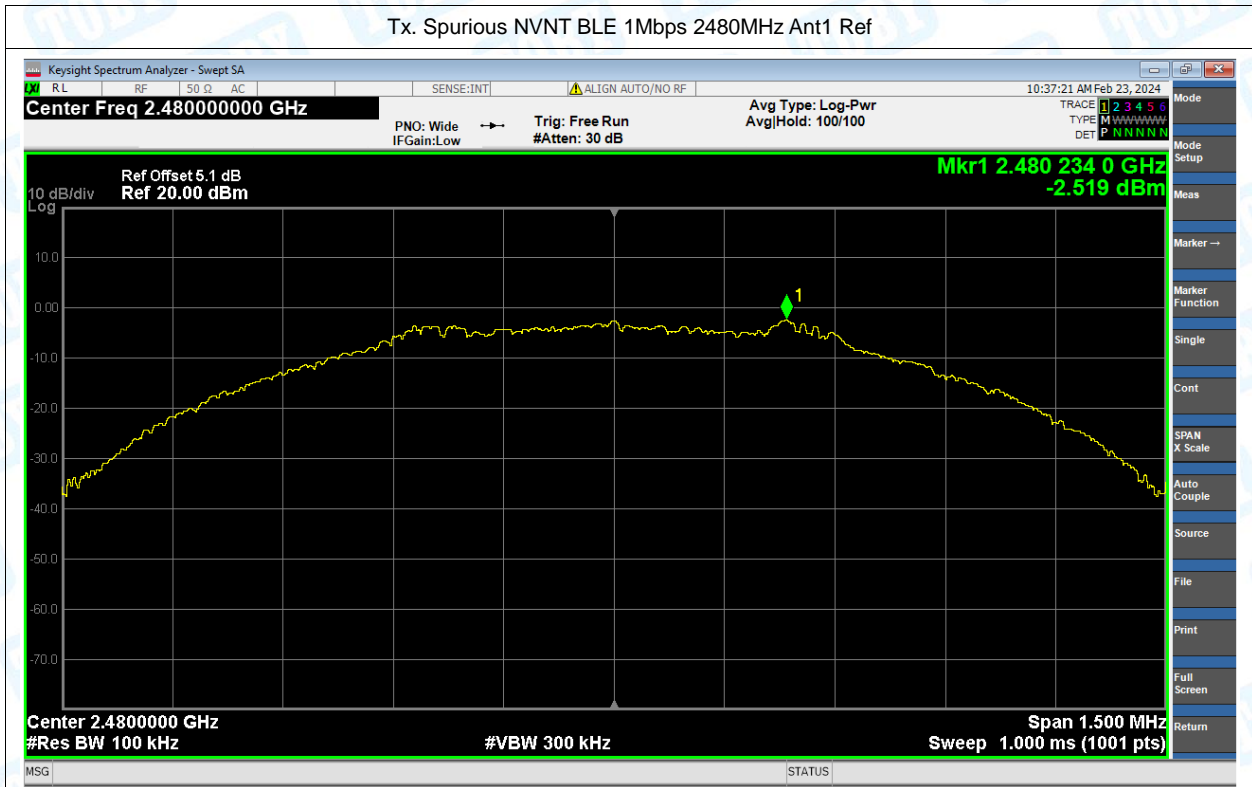
Tx. Spurious NVNT BLE 1Mbps 2402MHz Ant1 Ref

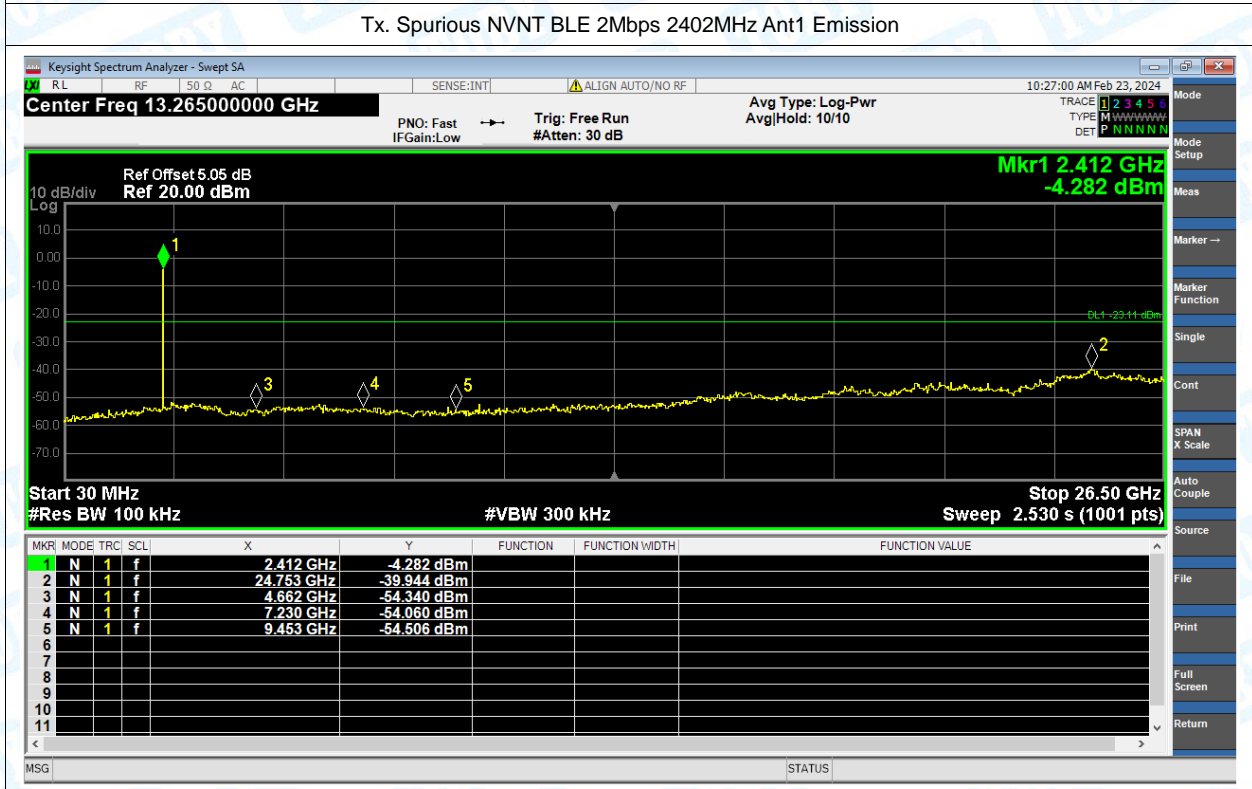
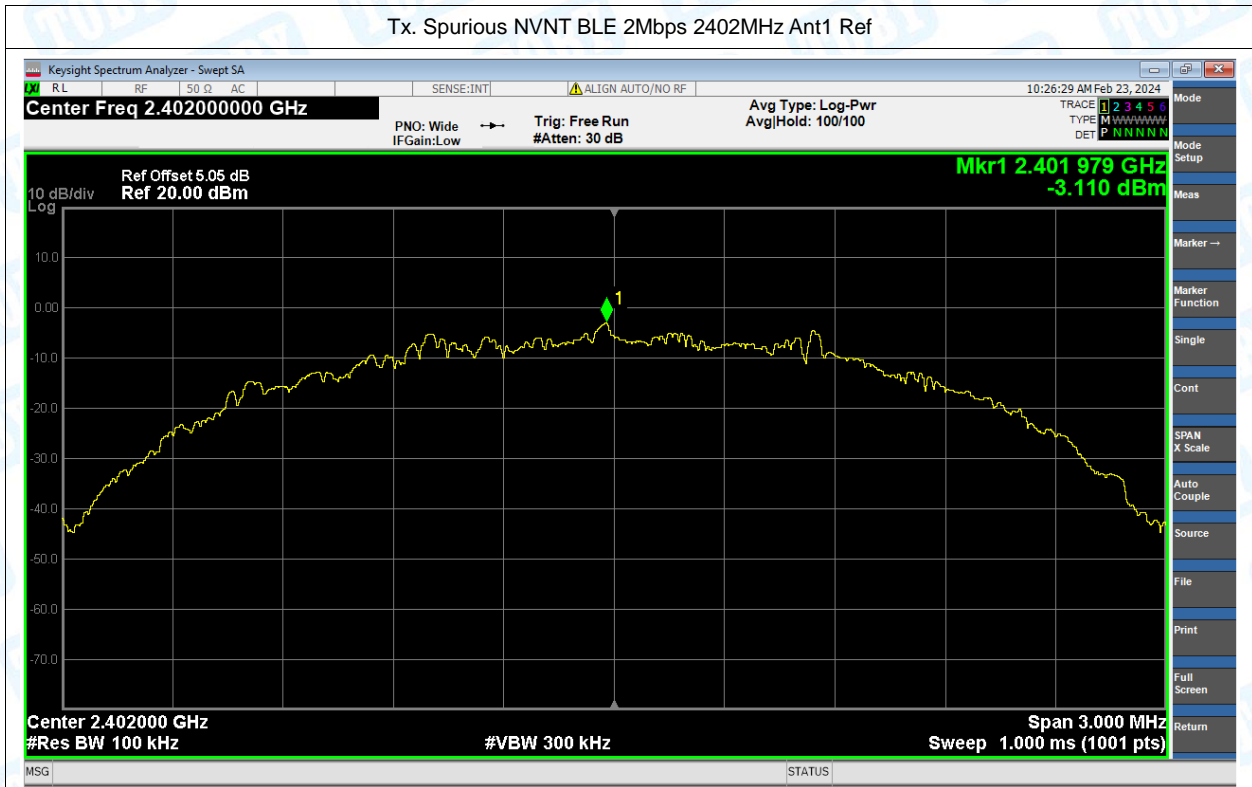


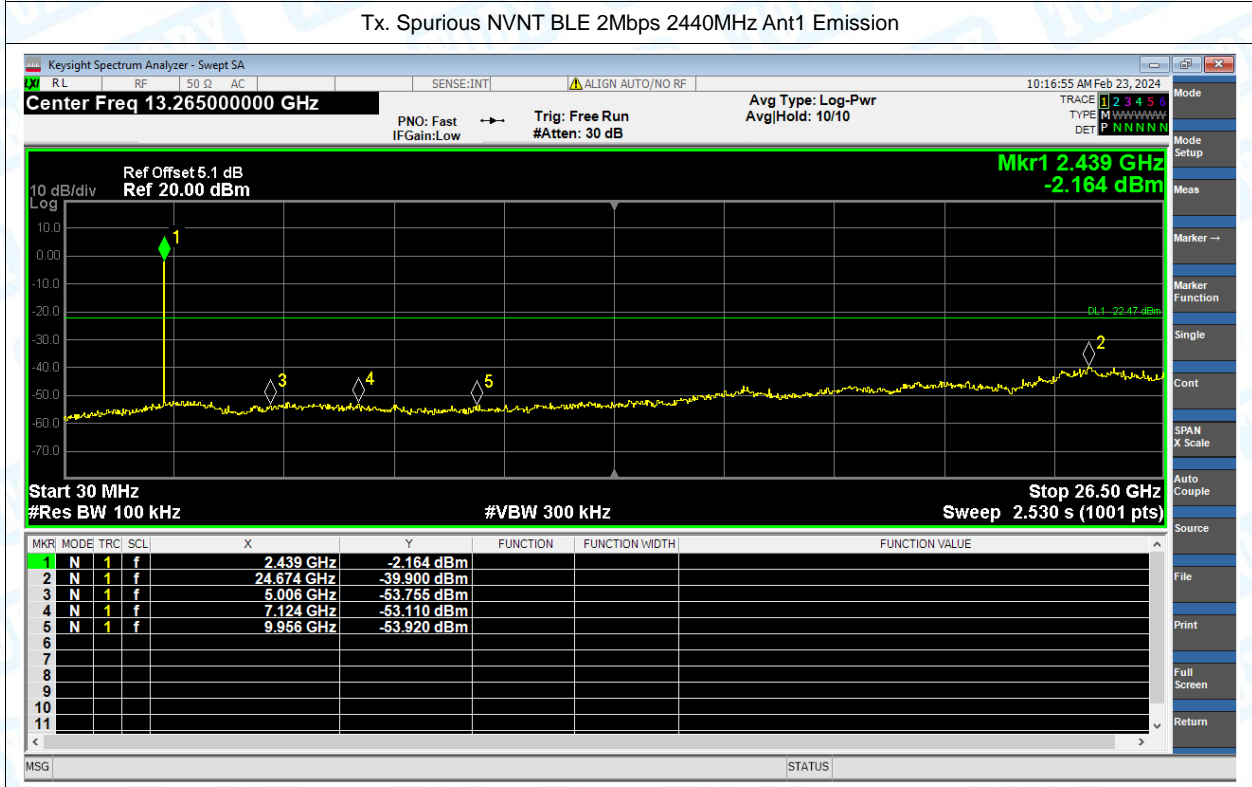
Tx. Spurious NVNT BLE 1Mbps 2402MHz Ant1 Emission

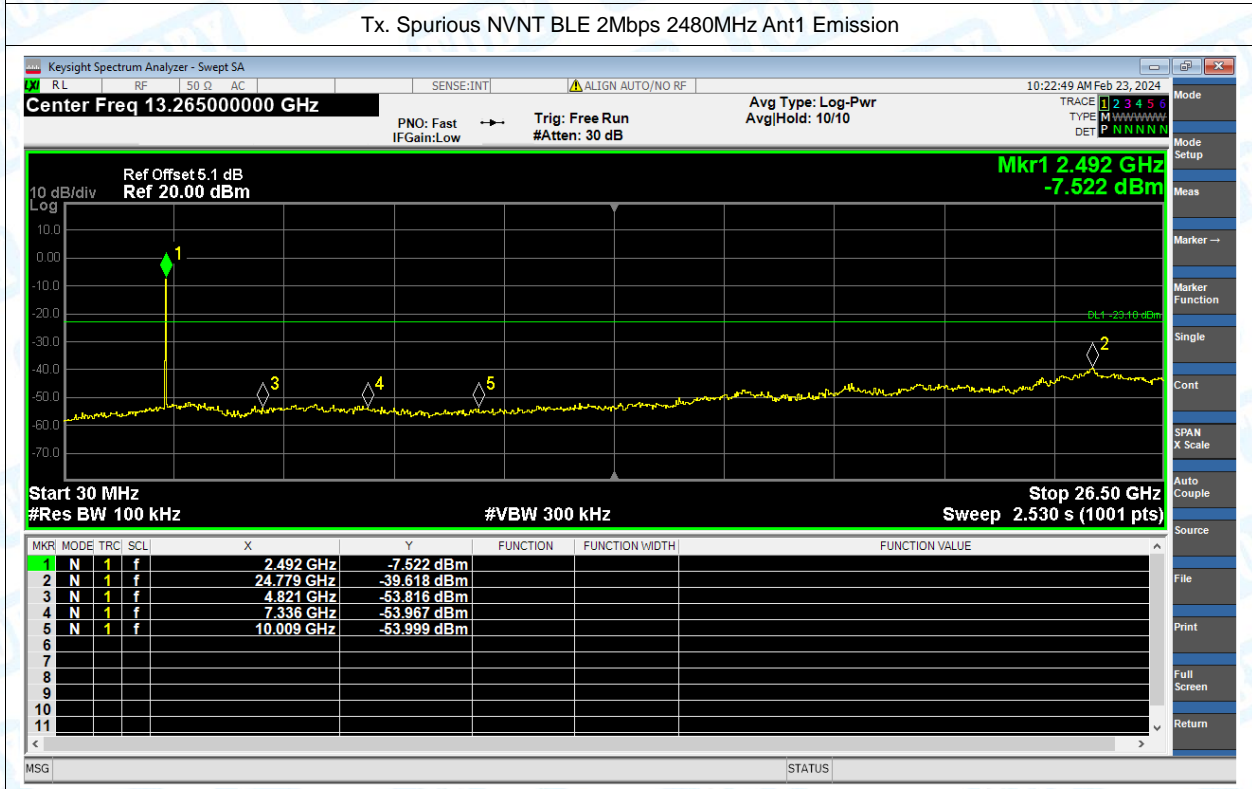
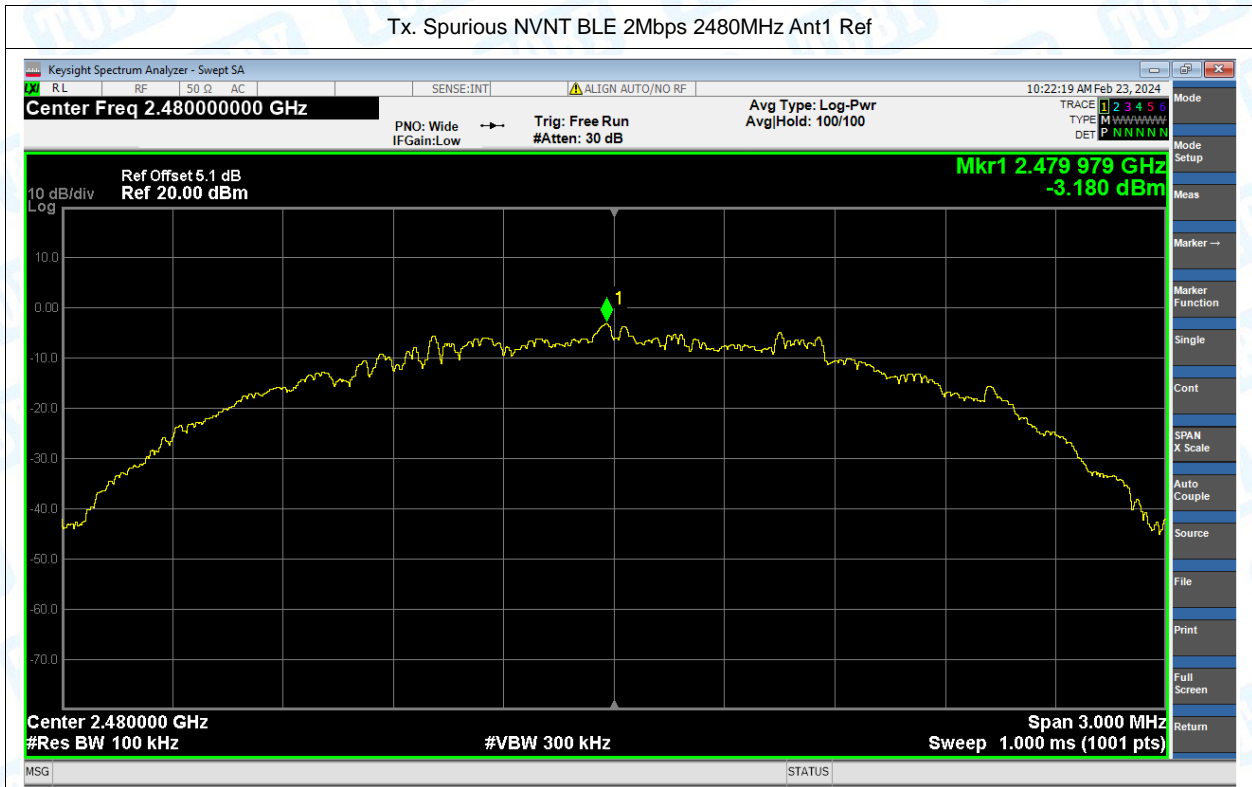












-----END OF THE REPORT-----