

RF Test Data for Bluetooth LE (Conducted Measurements)

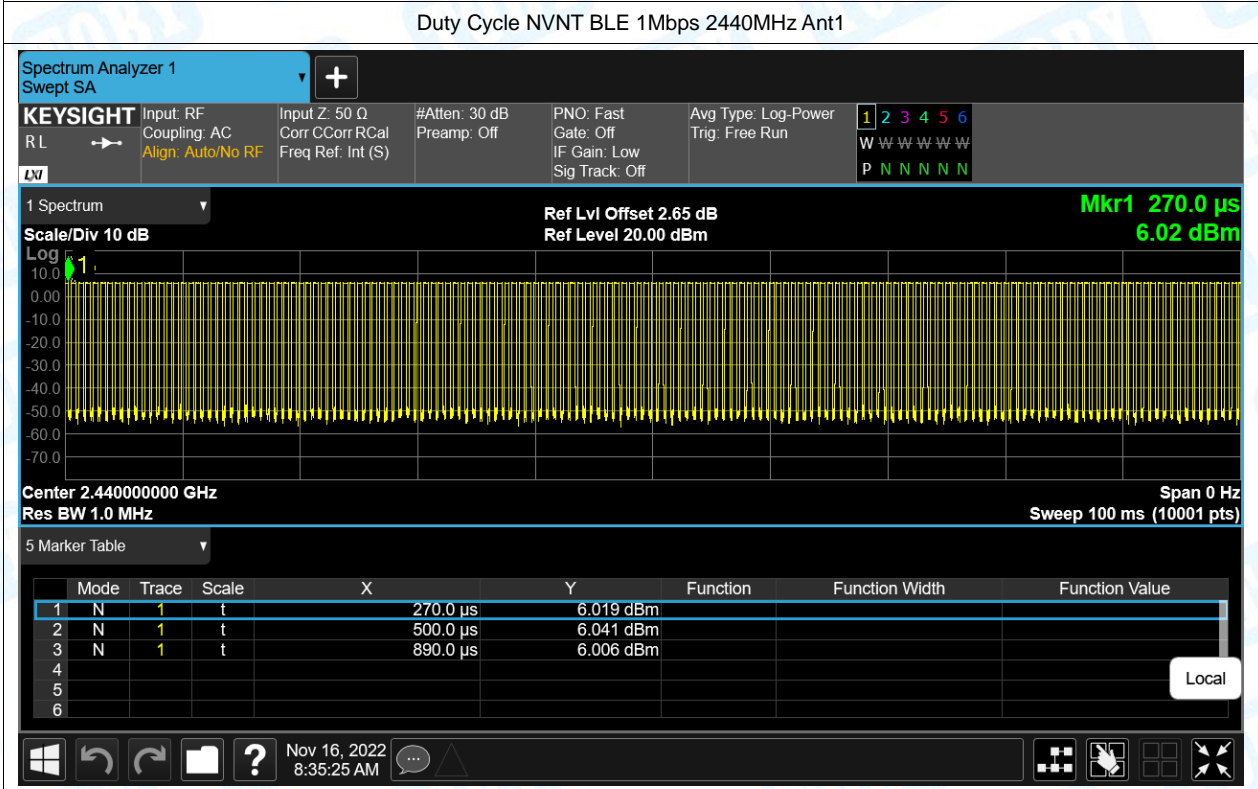
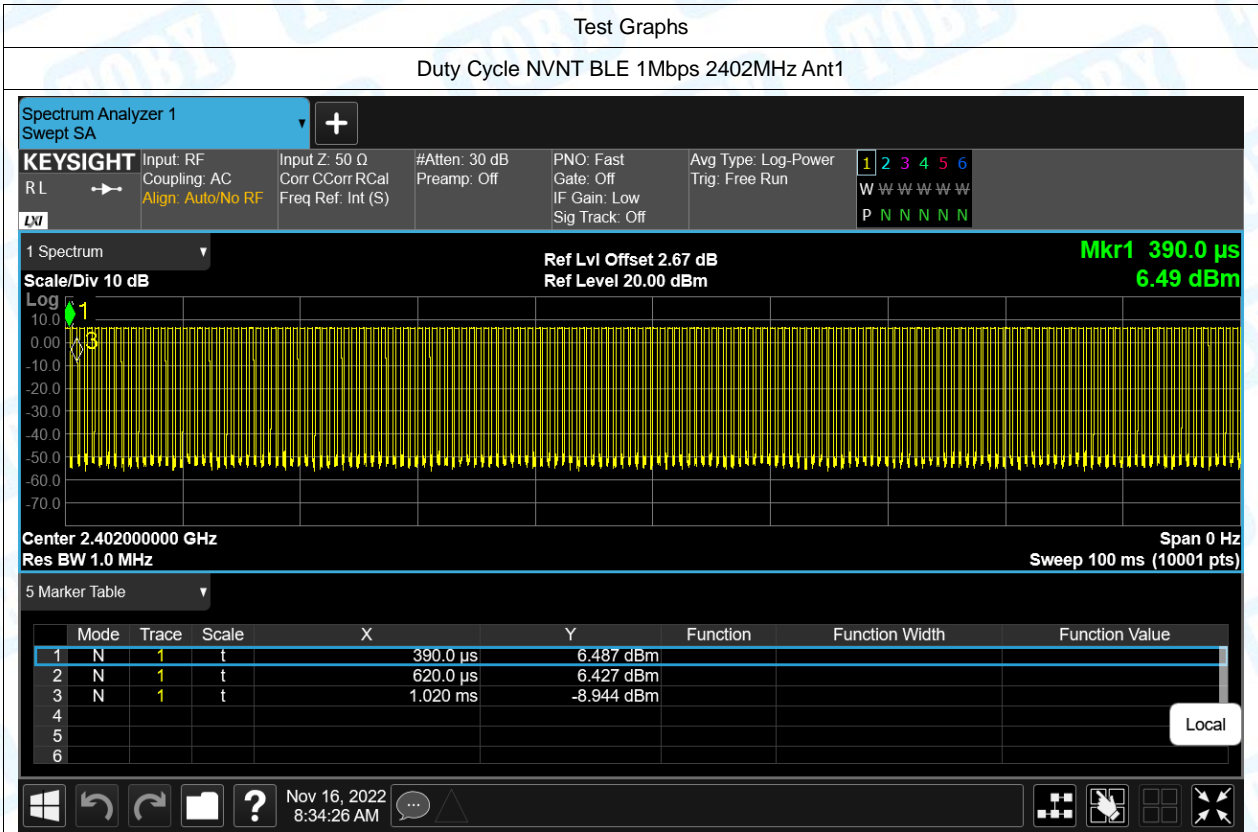
General Description of EUT	
Product Name:	StiX
Test Model:	3700
Sample ID:	202211-0053-01-2
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 5V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202211-0053-51	

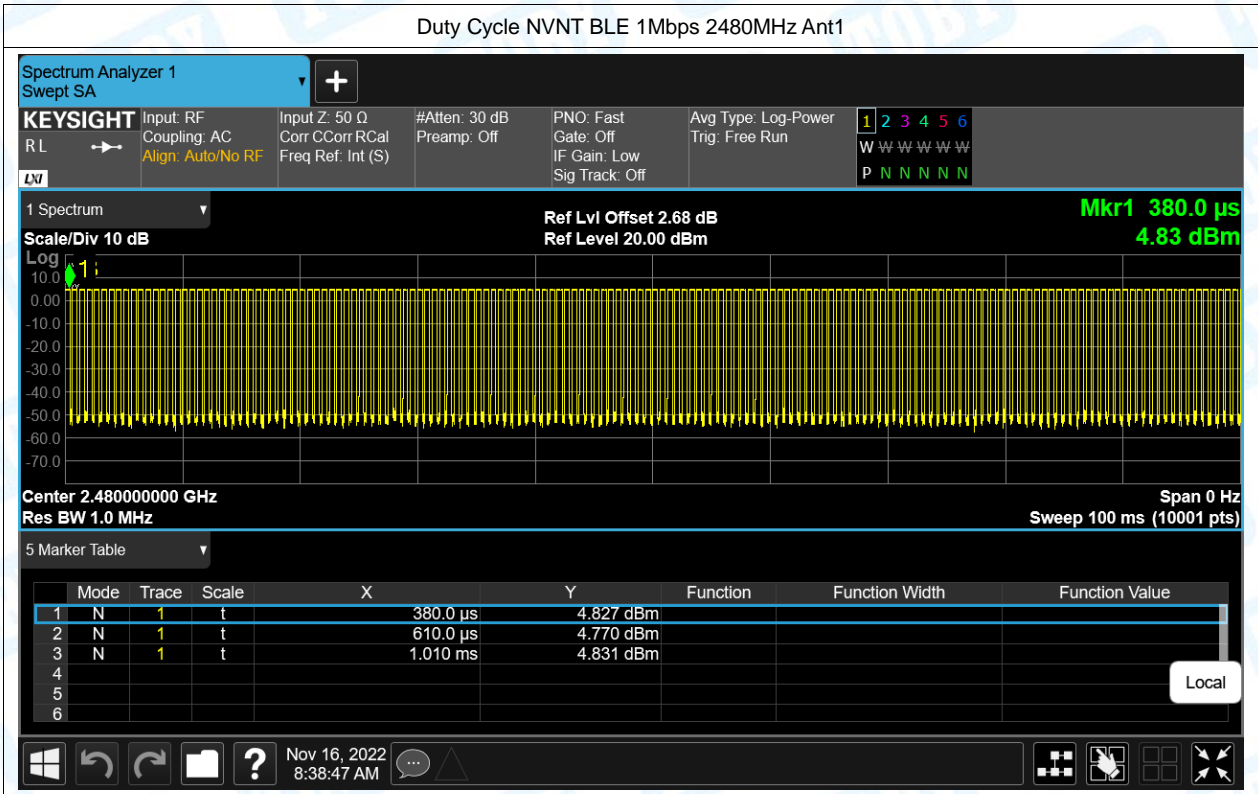
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1. Duty Cycle

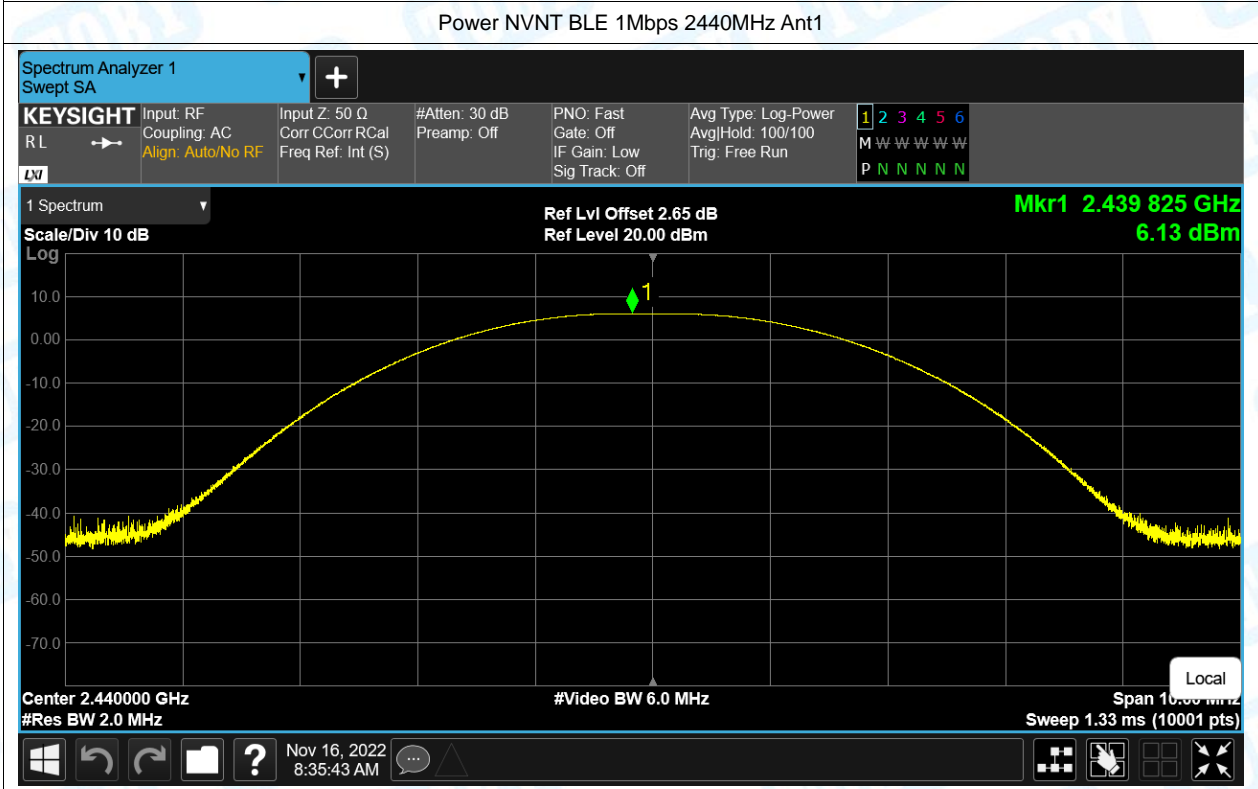
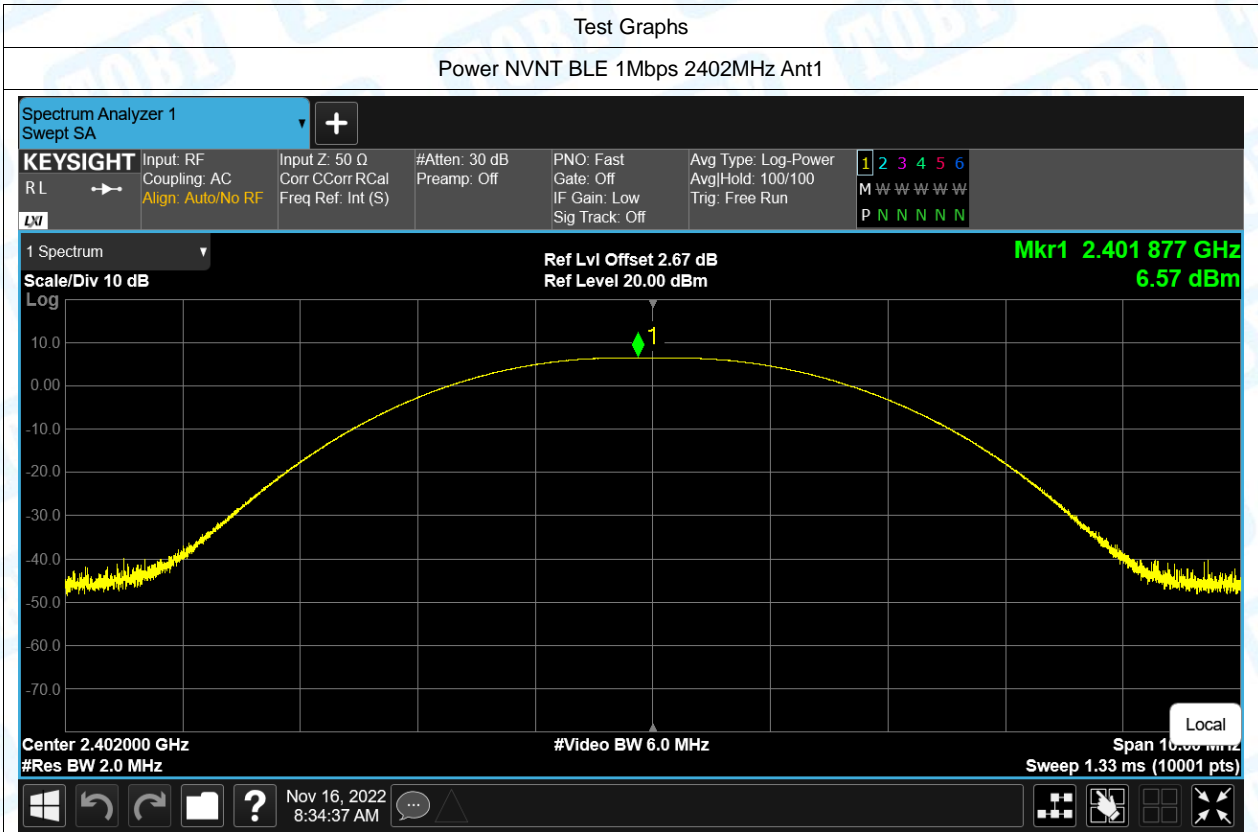
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1Mbps	2402	Ant1	63.49	1.97	2.5
NVNT	BLE 1Mbps	2440	Ant1	62.9	2.01	2.56
NVNT	BLE 1Mbps	2480	Ant1	63.49	1.97	2.5

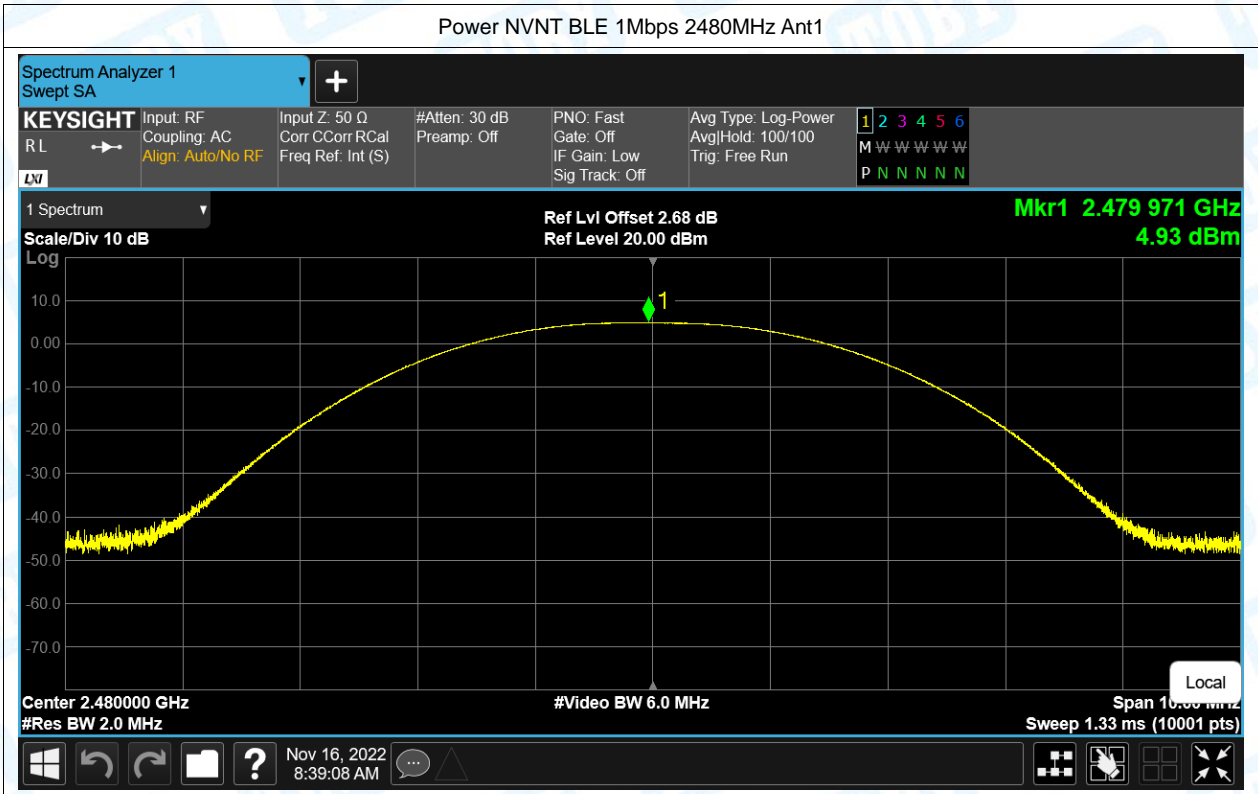




2. Maximum Conducted Output Power

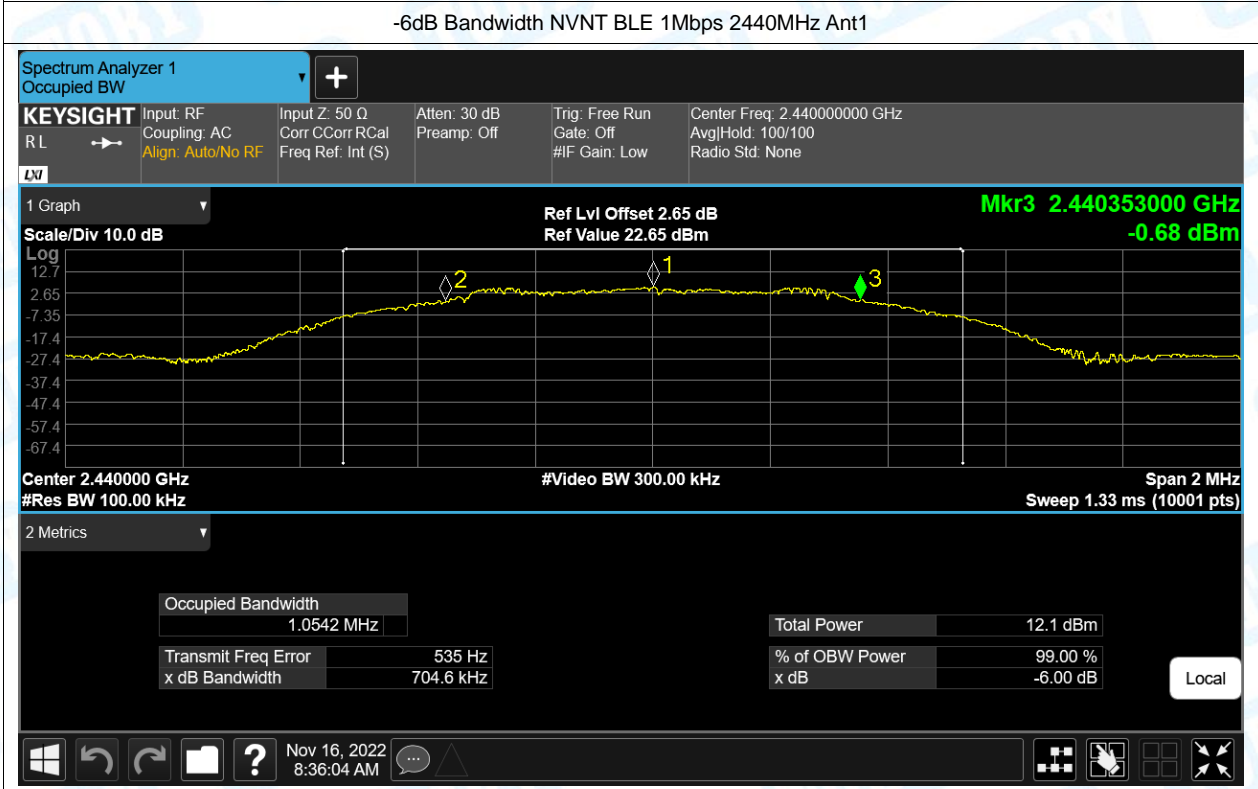
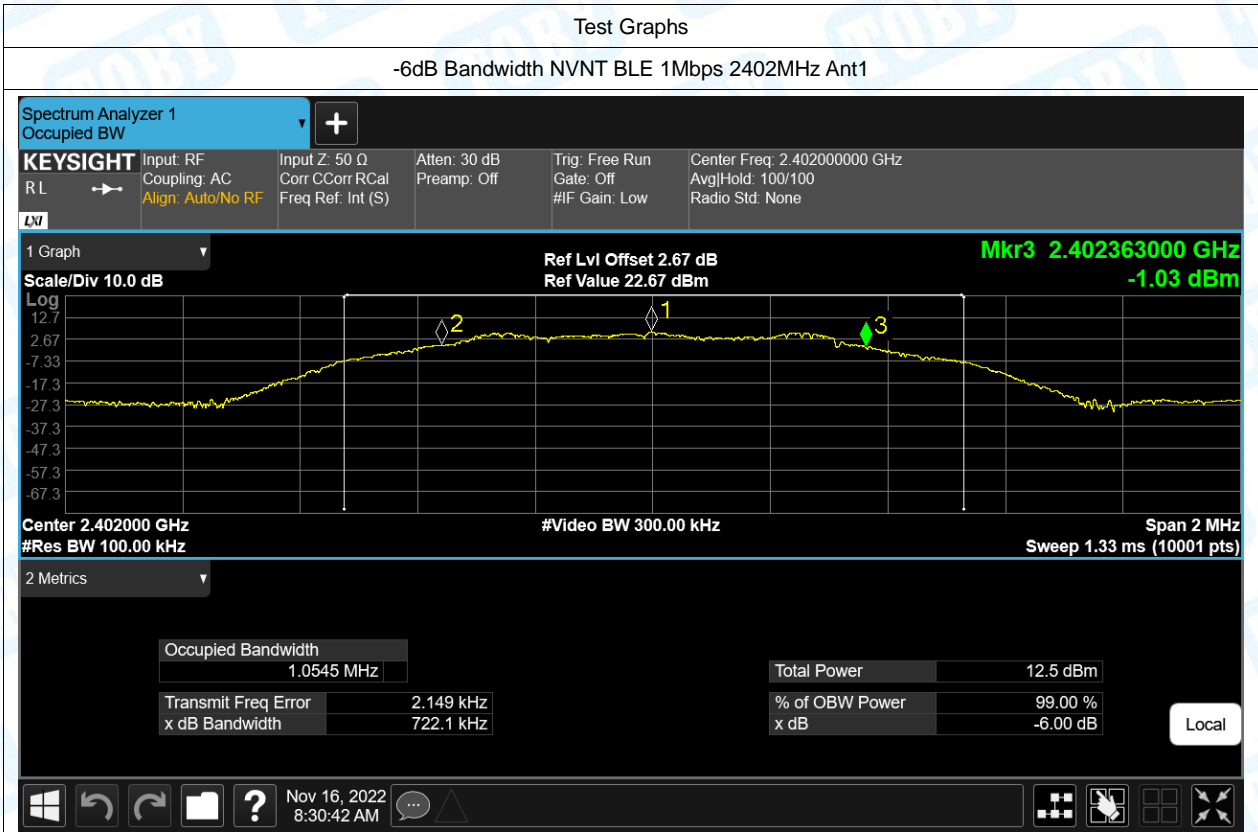
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	6.57	30	Pass
NVNT	BLE 1Mbps	2440	Ant1	6.134	30	Pass
NVNT	BLE 1Mbps	2480	Ant1	4.935	30	Pass

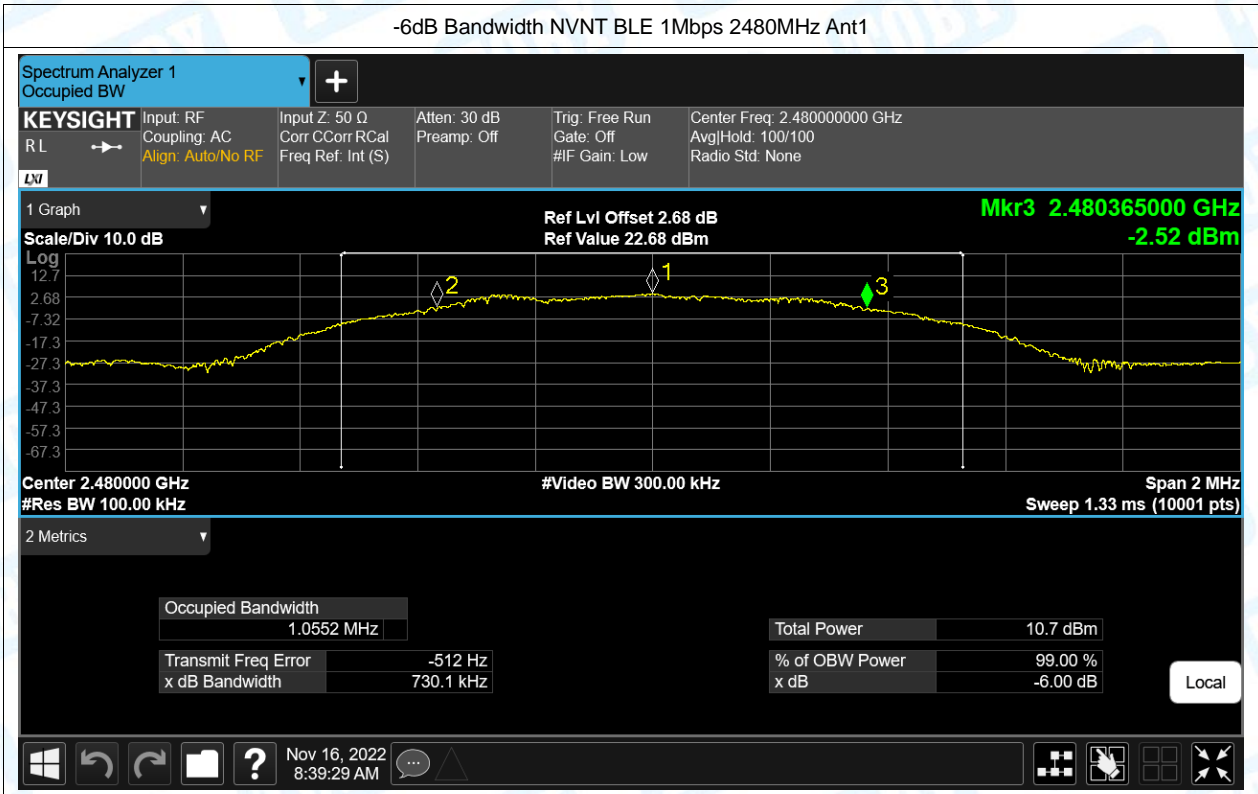




3. -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	0.72	0.5	Pass
NVNT	BLE 1Mbps	2440	Ant1	0.7	0.5	Pass
NVNT	BLE 1Mbps	2480	Ant1	0.73	0.5	Pass



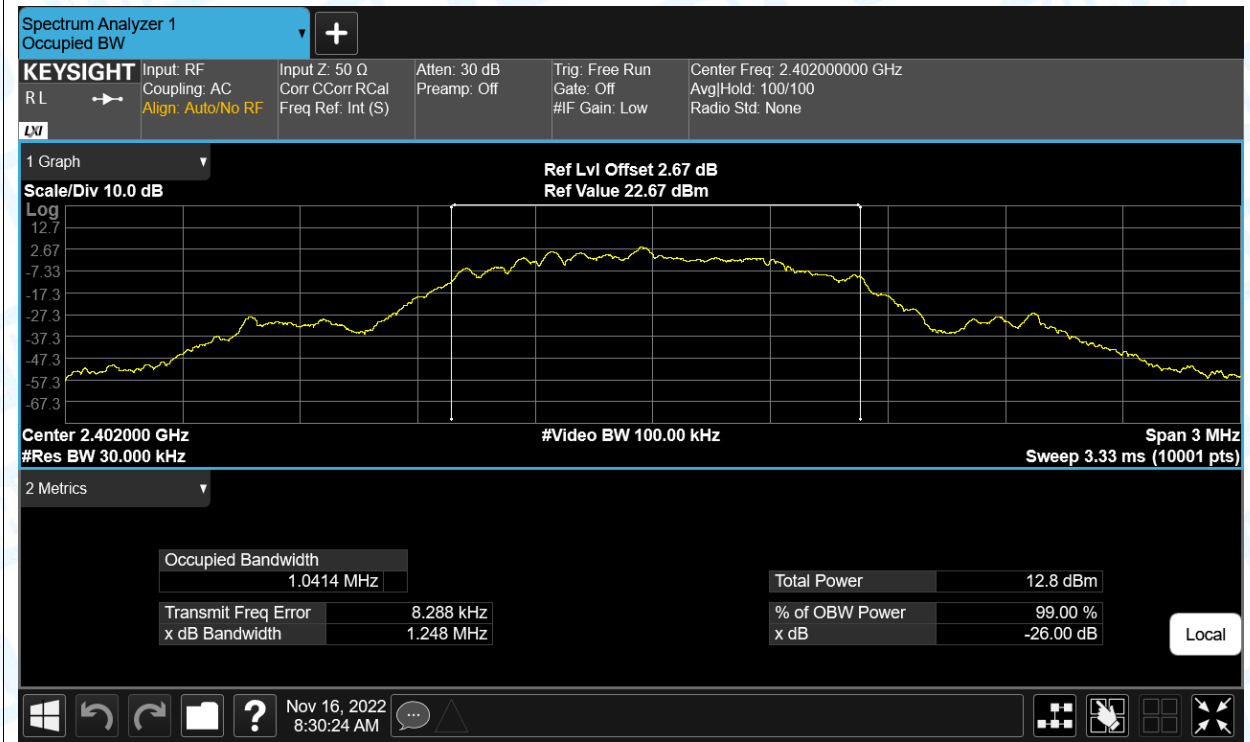


4. Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1Mbps	2402	Ant1	1.041
NVNT	BLE 1Mbps	2440	Ant1	1.051
NVNT	BLE 1Mbps	2480	Ant1	1.046

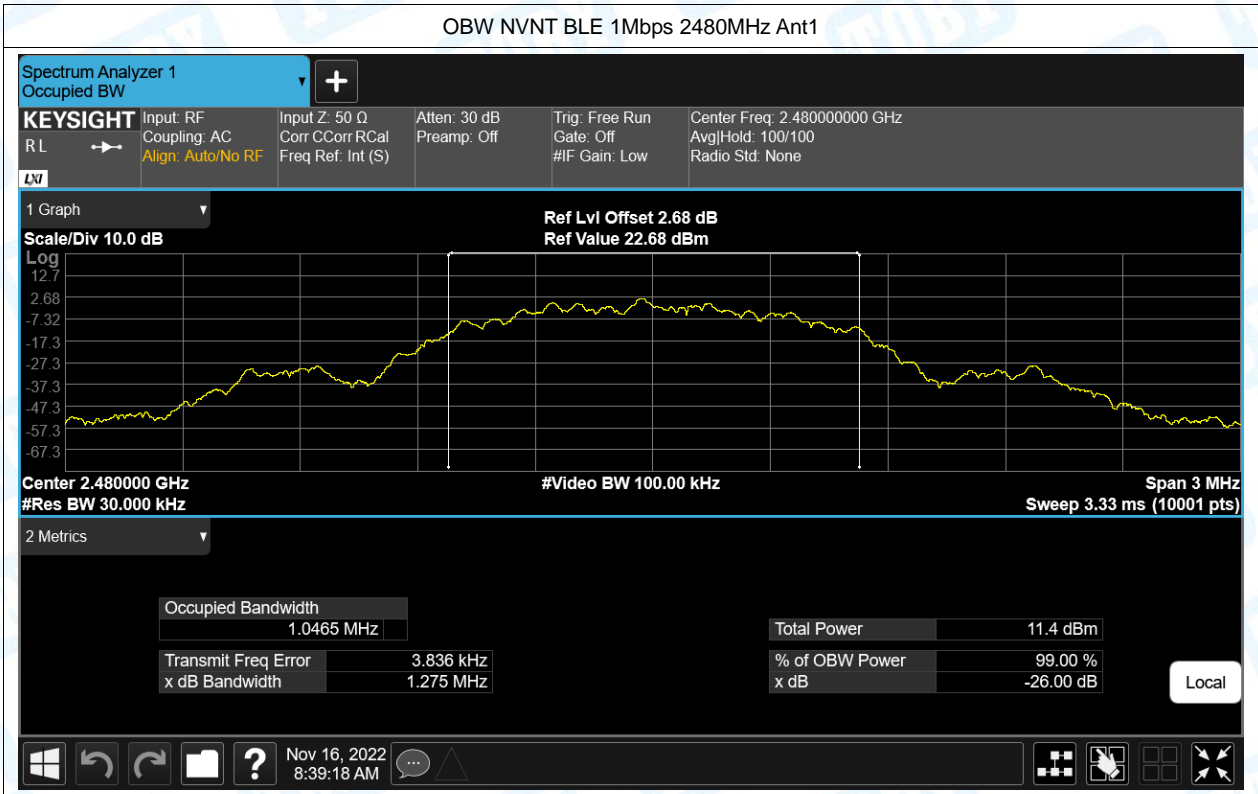
Test Graphs

OBW NVNT BLE 1Mbps 2402MHz Ant1



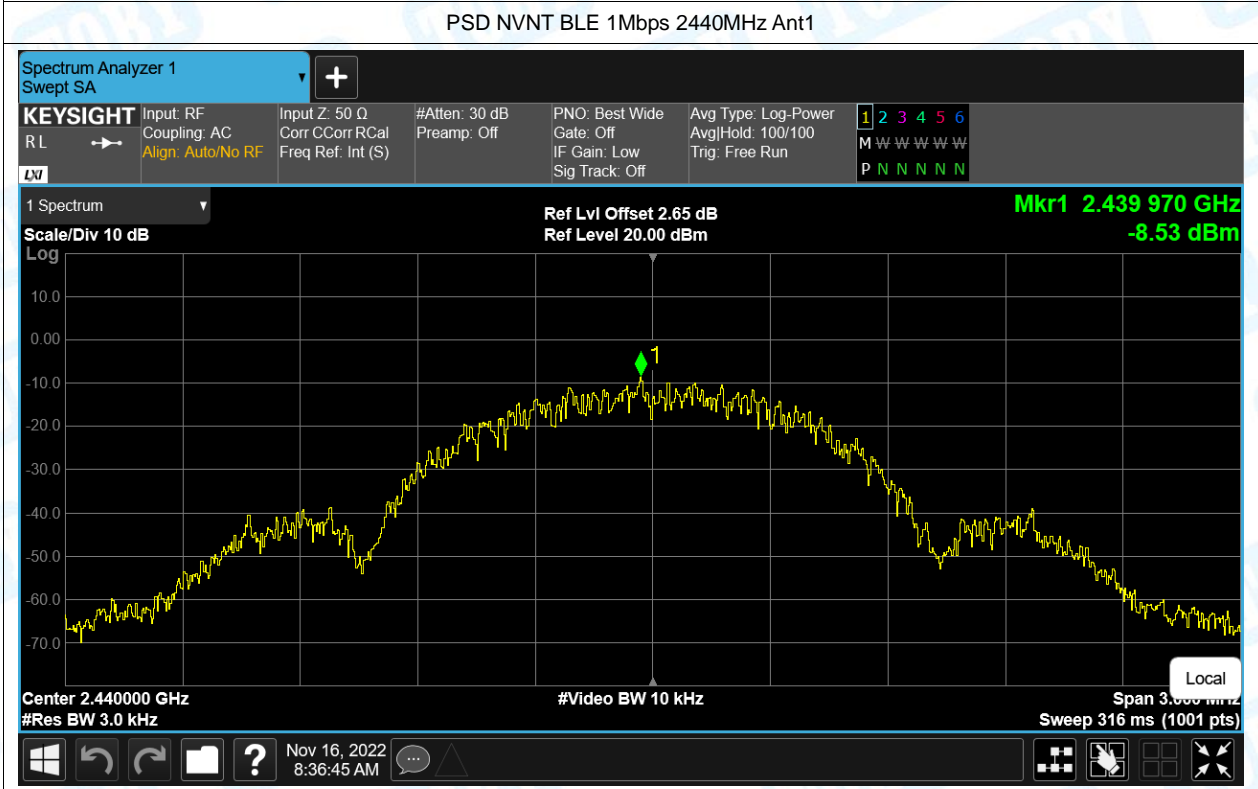
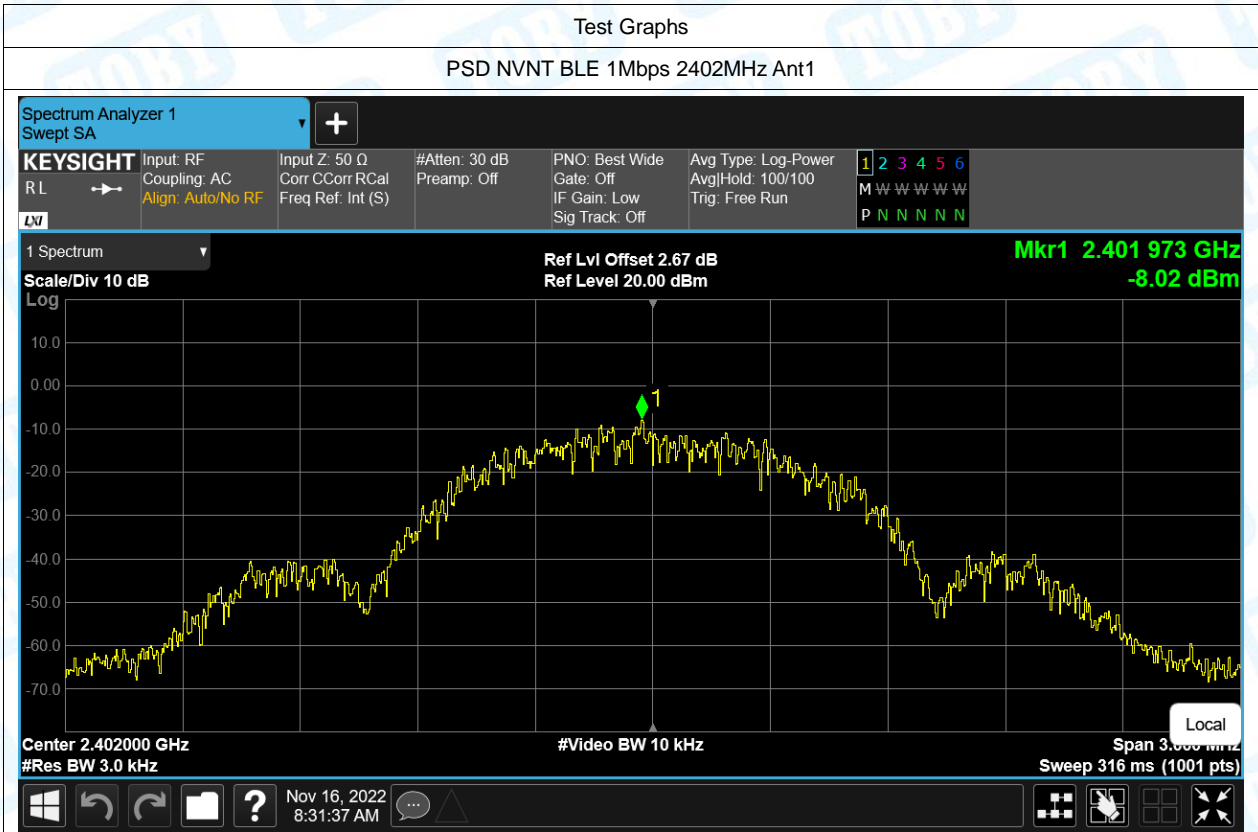
OBW NVNT BLE 1Mbps 2440MHz Ant1

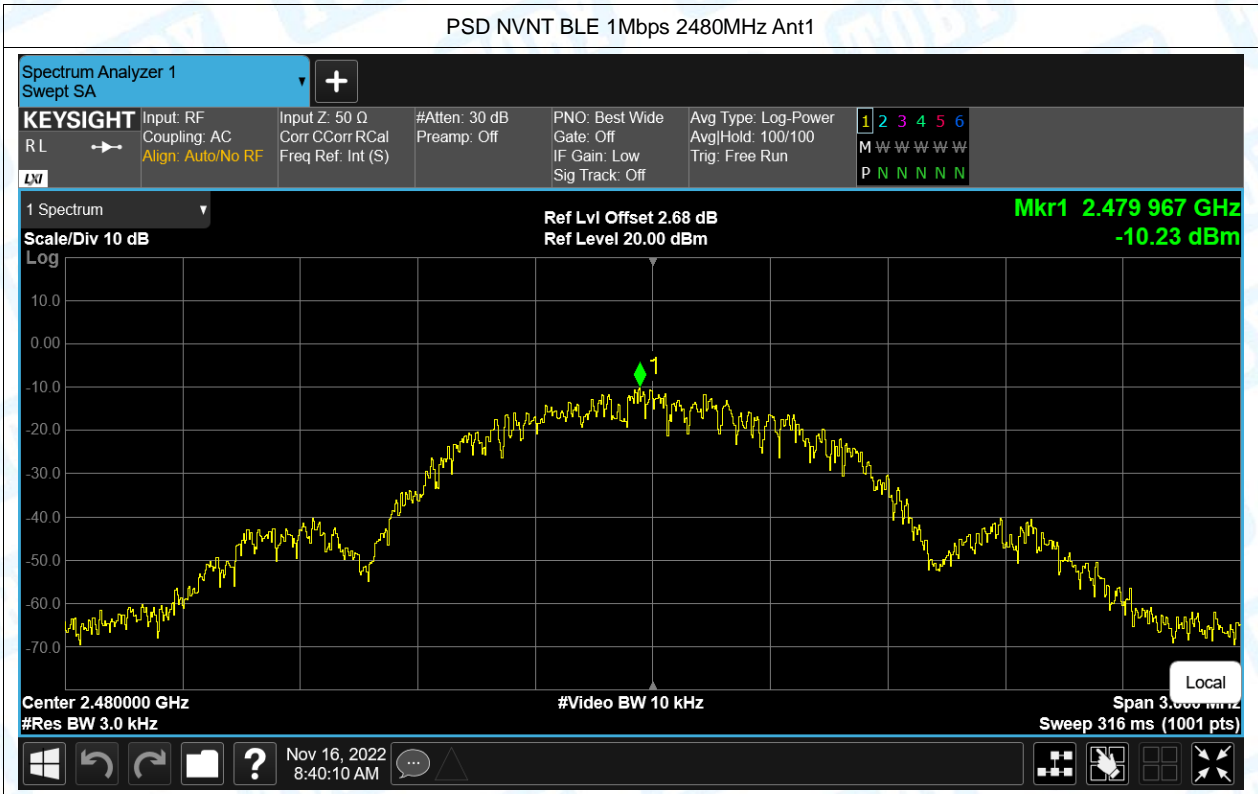




5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-8.022	8	Pass
NVNT	BLE 1Mbps	2440	Ant1	-8.534	8	Pass
NVNT	BLE 1Mbps	2480	Ant1	-10.233	8	Pass



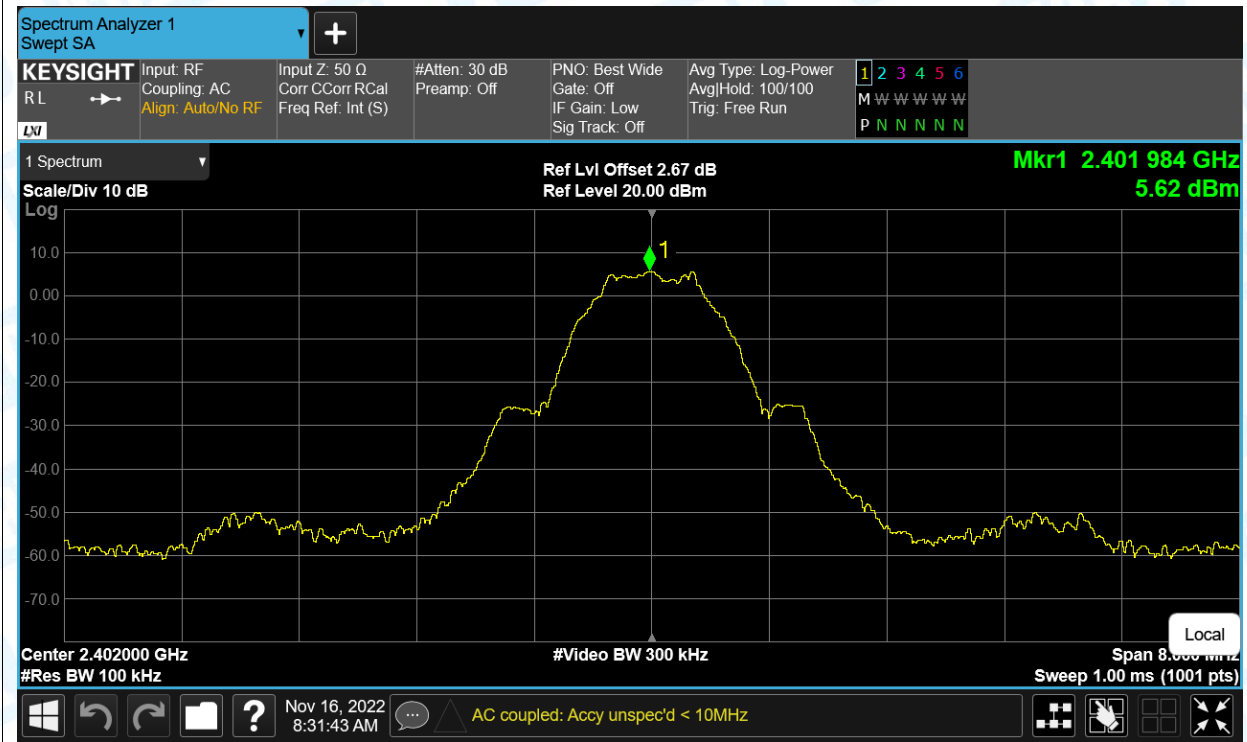


6. Band Edge

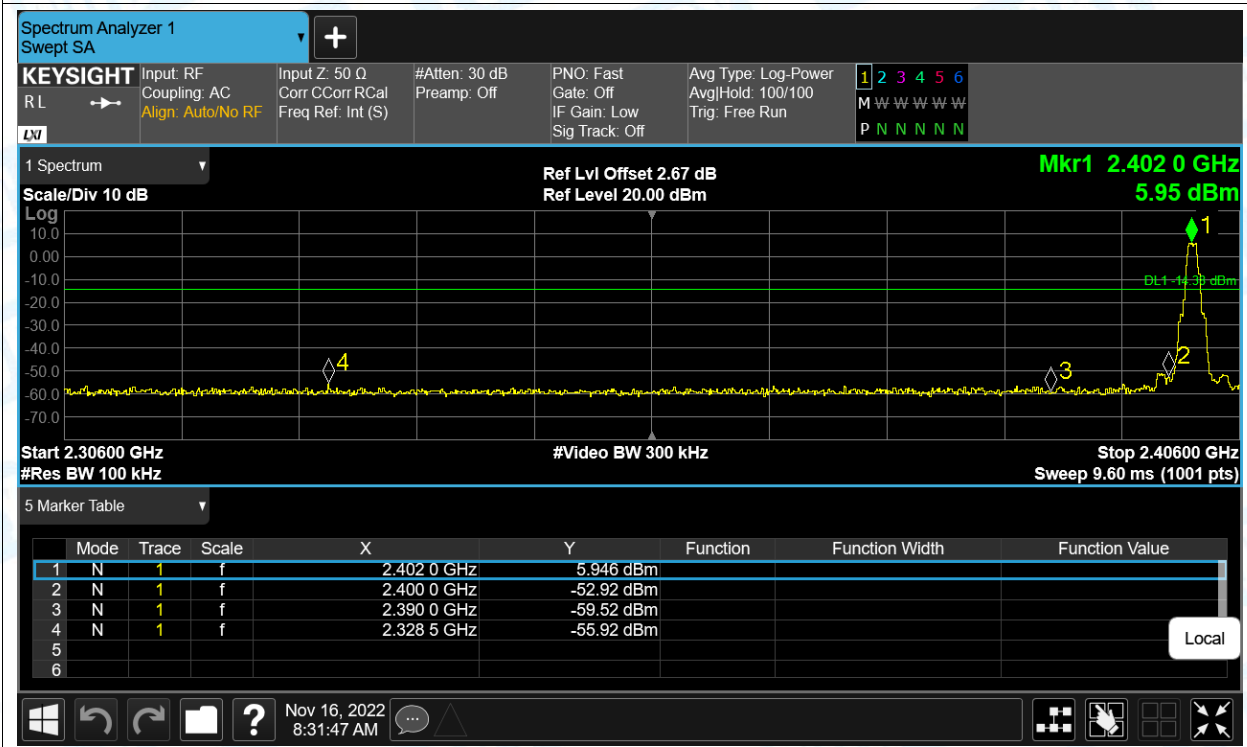
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-61.54	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-60	-20	Pass

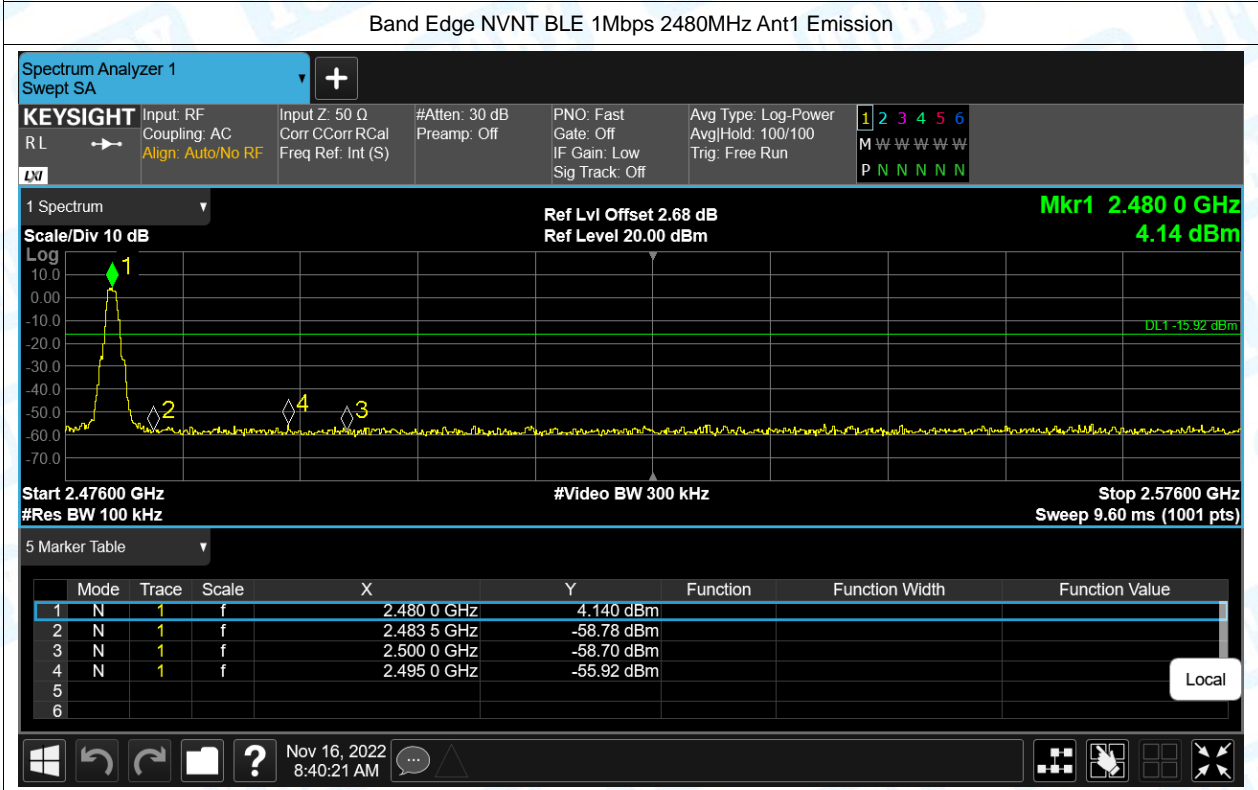
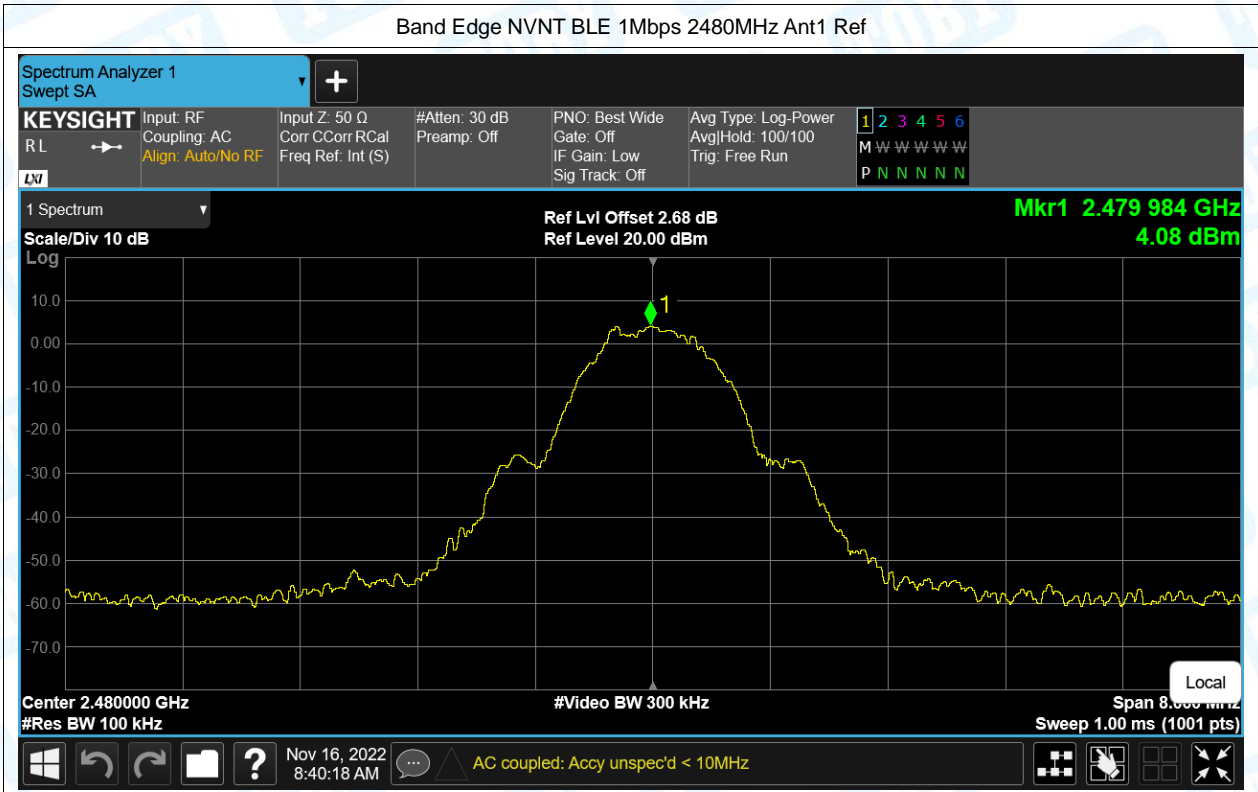
Test Graphs

Band Edge NVNT BLE 1Mbps 2402MHz Ant1 Ref



Band Edge NVNT BLE 1Mbps 2402MHz Ant1 Emission



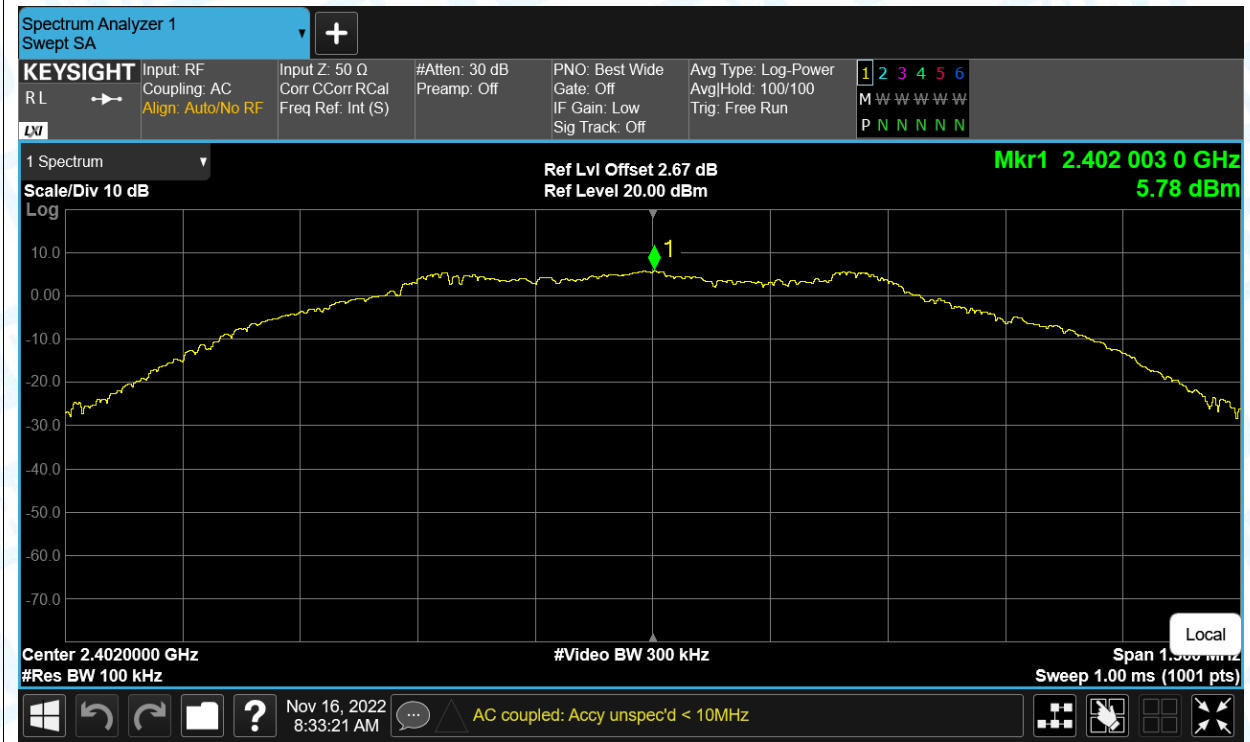


7. Conducted RF Spurious Emission

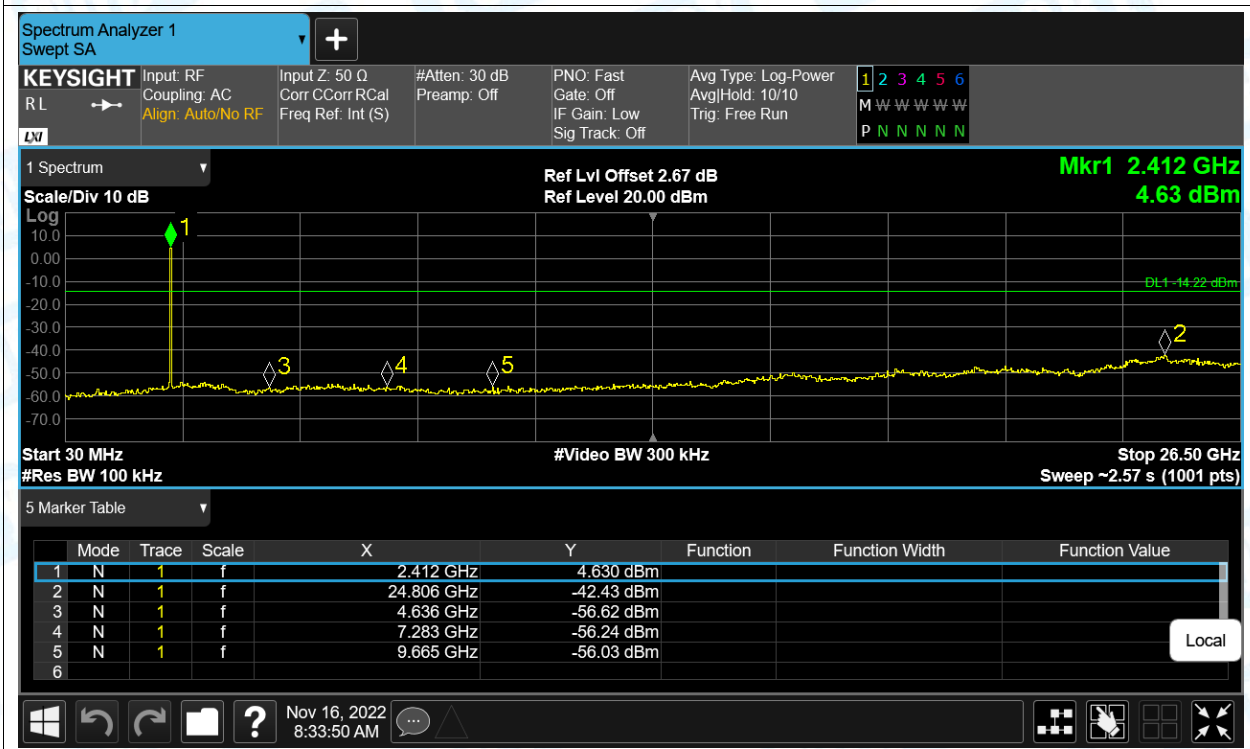
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-48.21	-20	Pass
NVNT	BLE 1Mbps	2440	Ant1	-47.8	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-46.23	-20	Pass

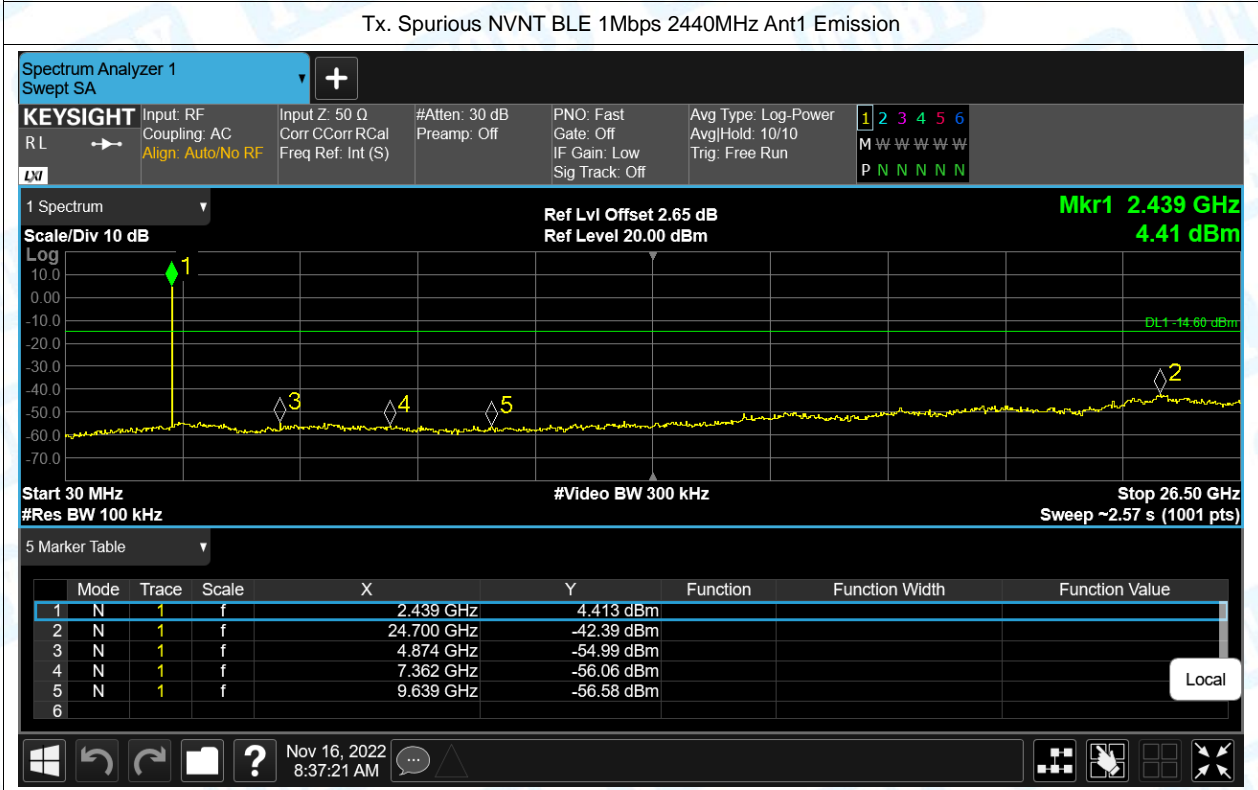
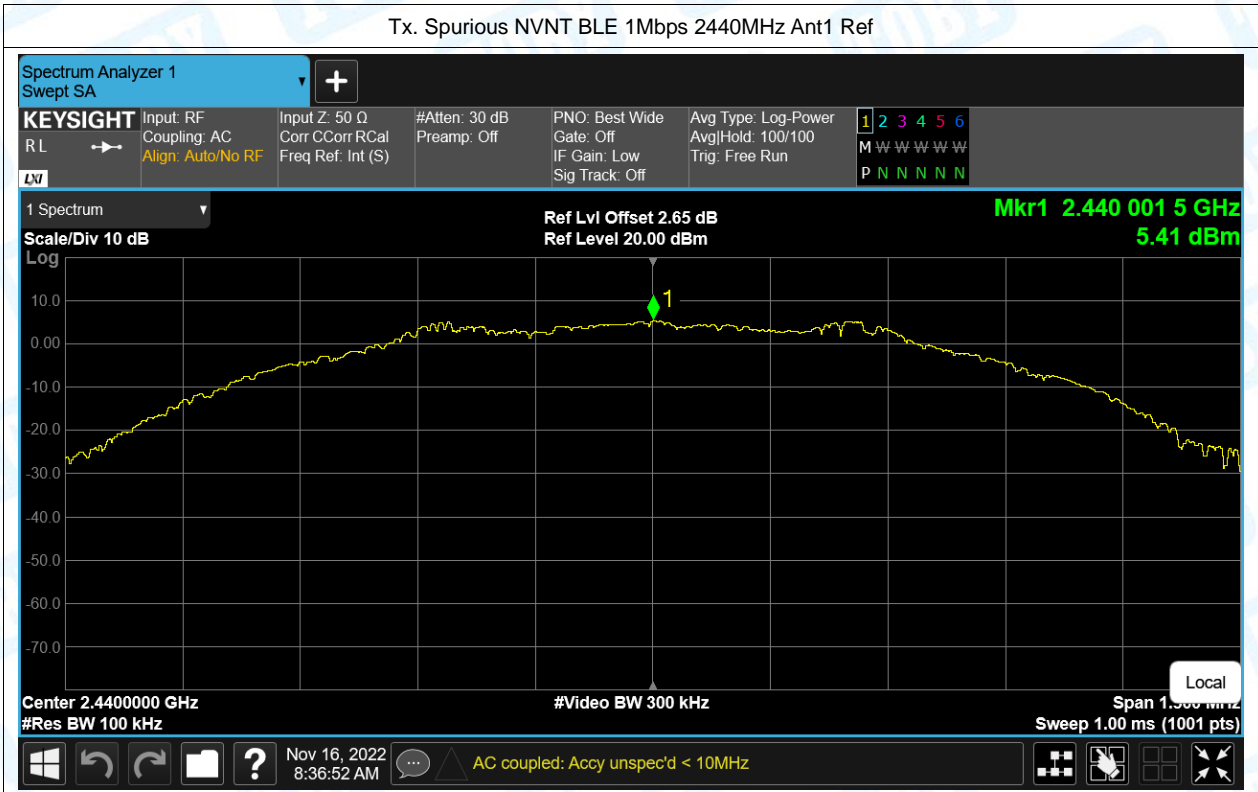
Test Graphs

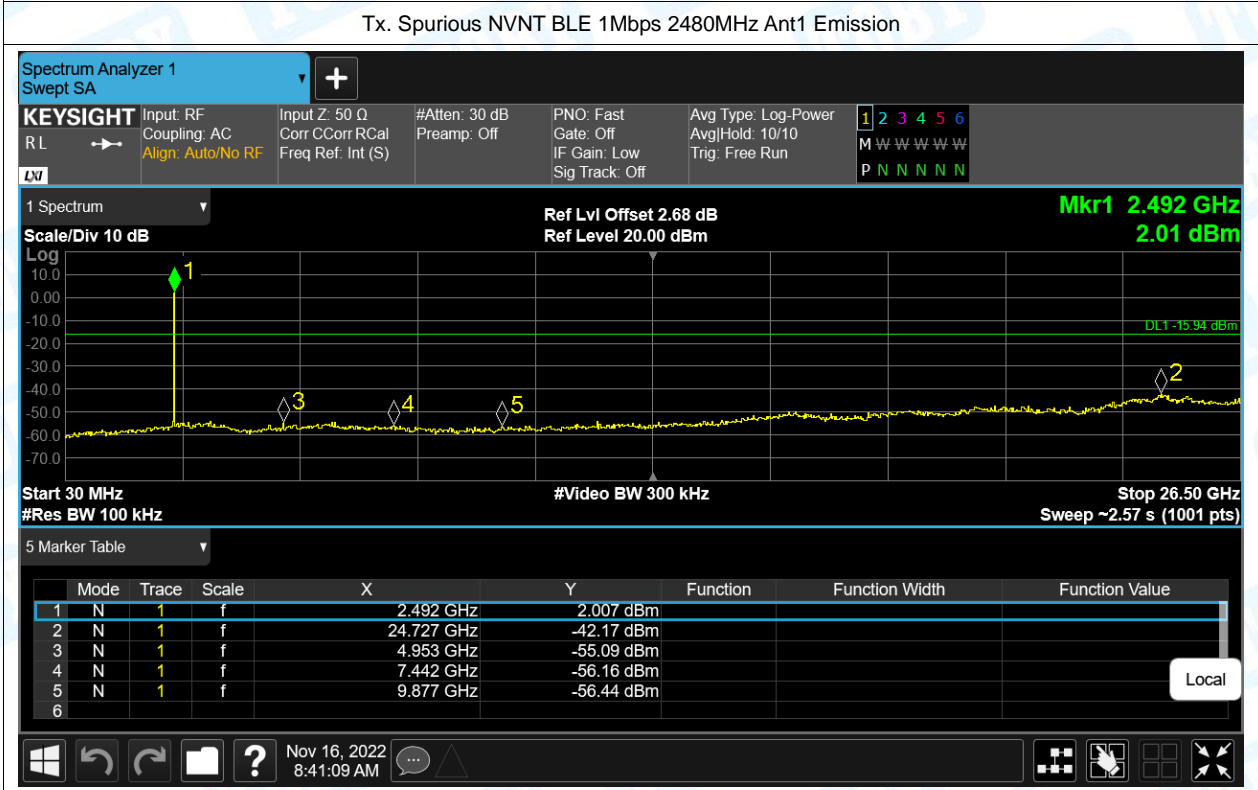
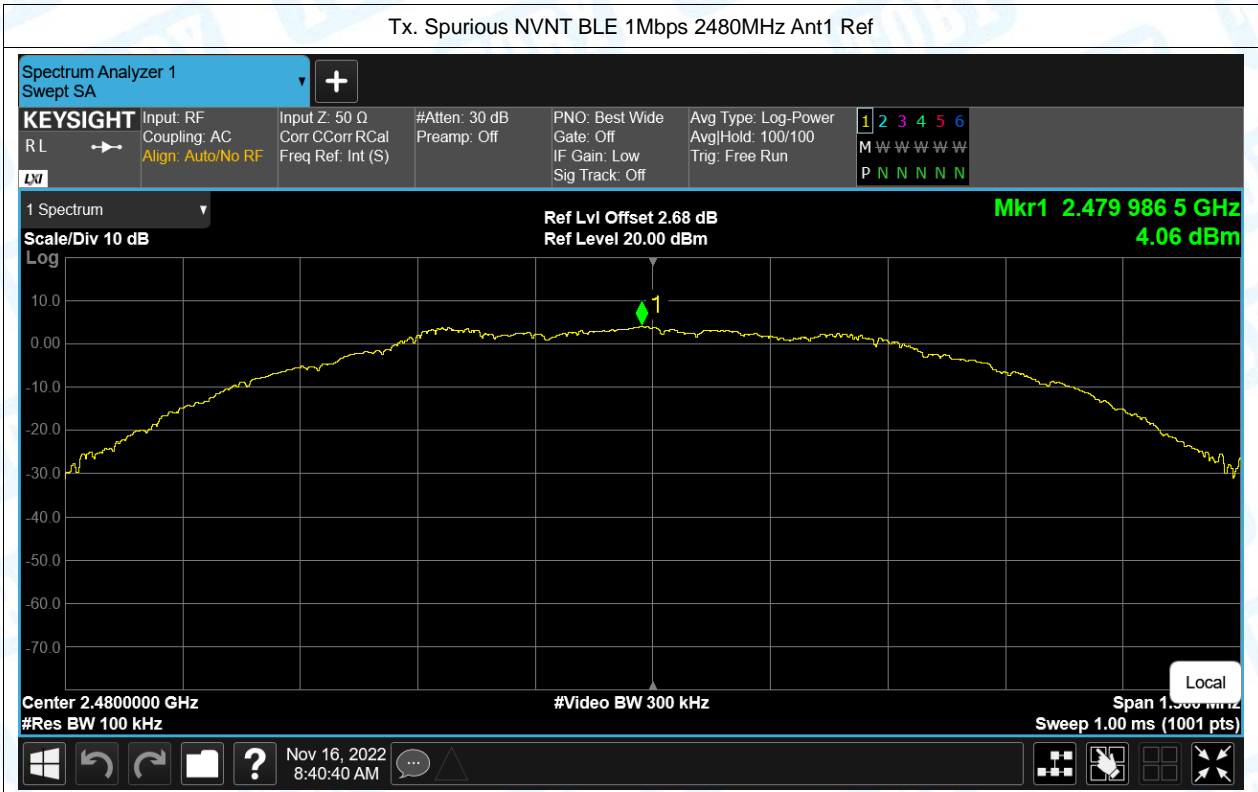
Tx. Spurious NVNT BLE 1Mbps 2402MHz Ant1 Ref



Tx. Spurious NVNT BLE 1Mbps 2402MHz Ant1 Emission

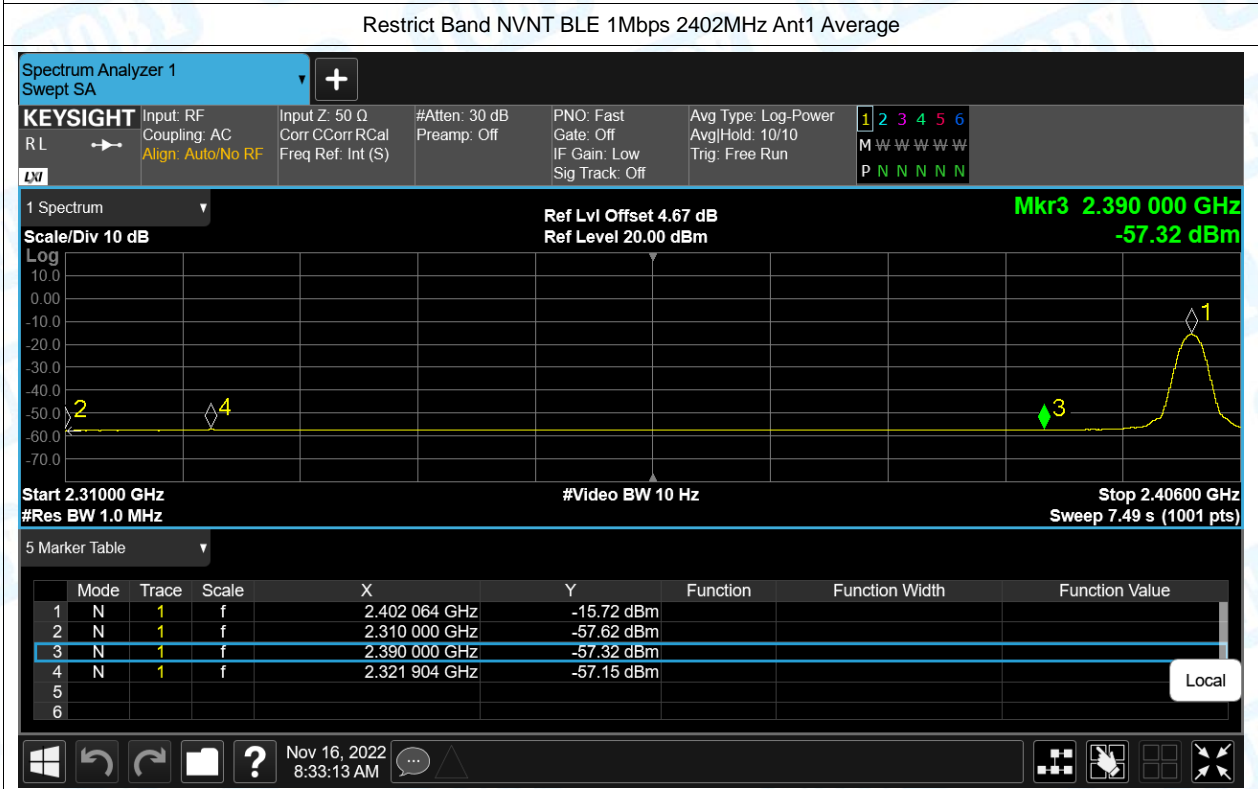
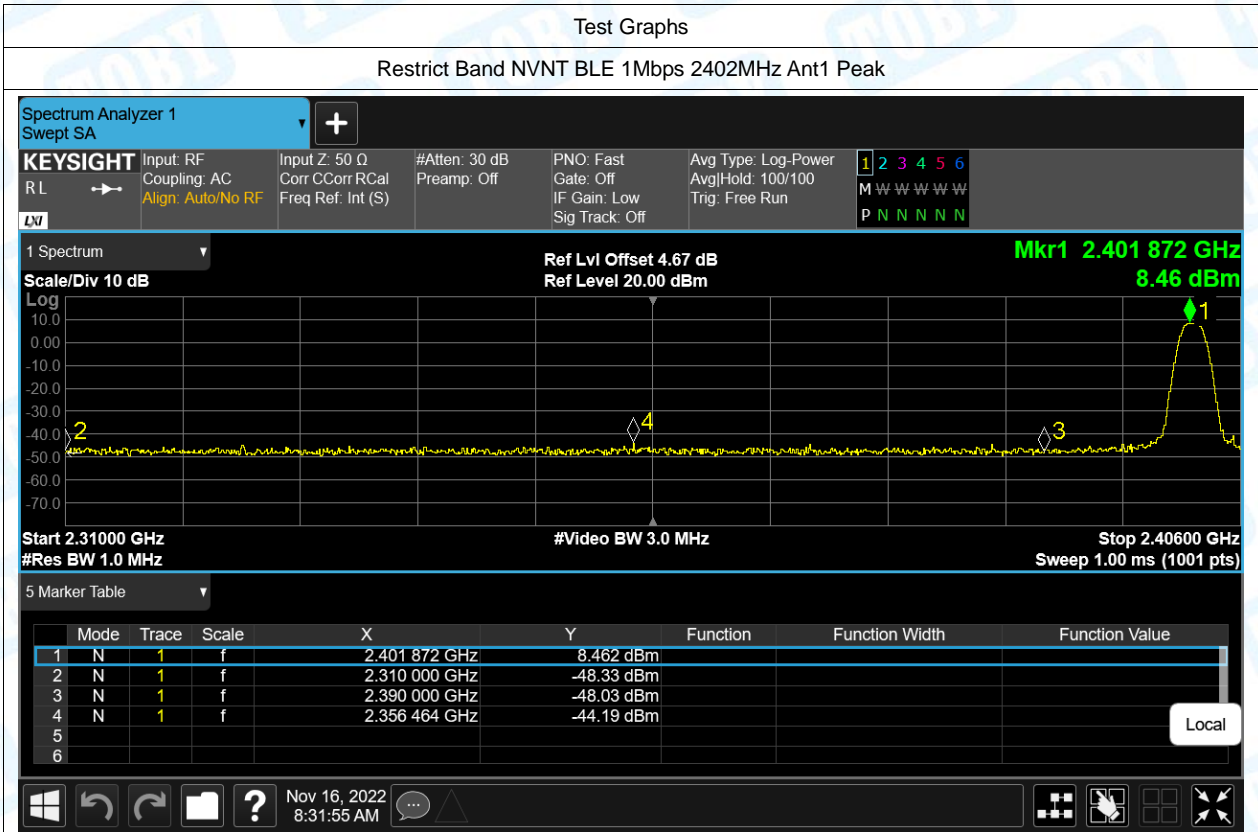


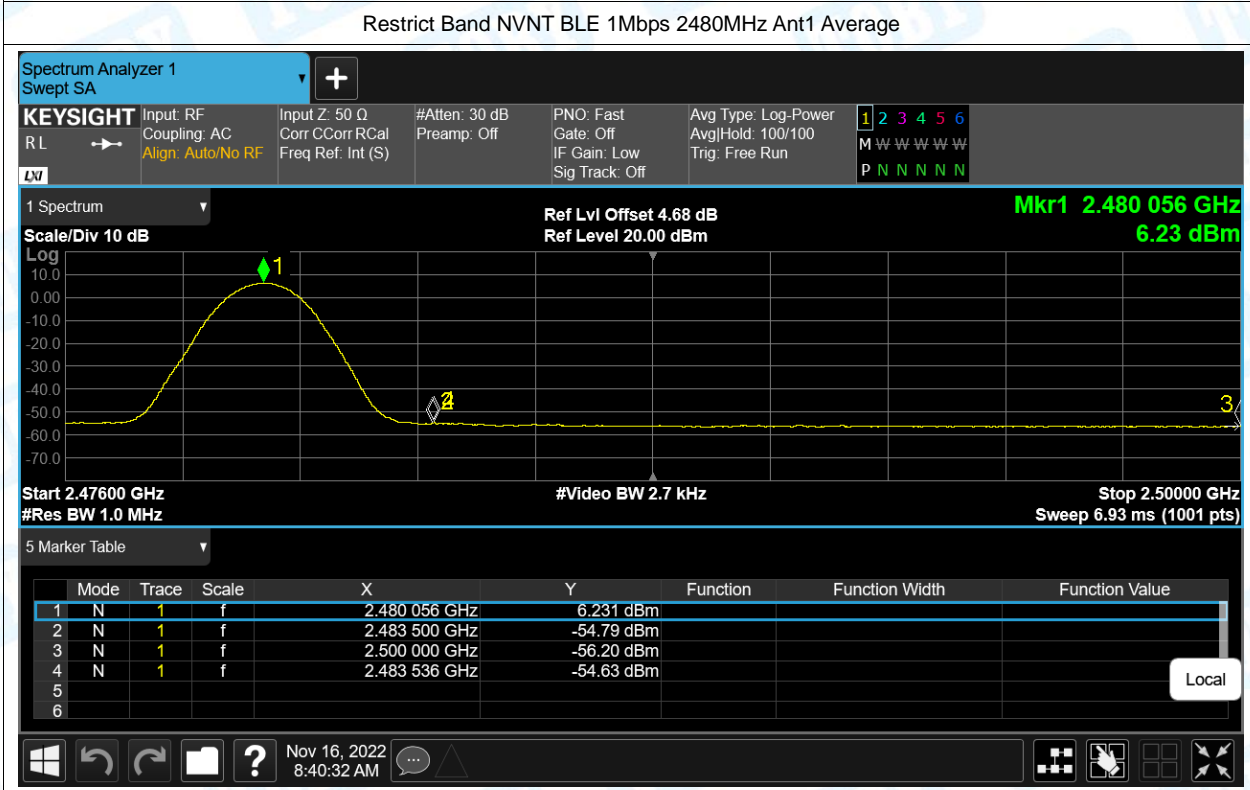
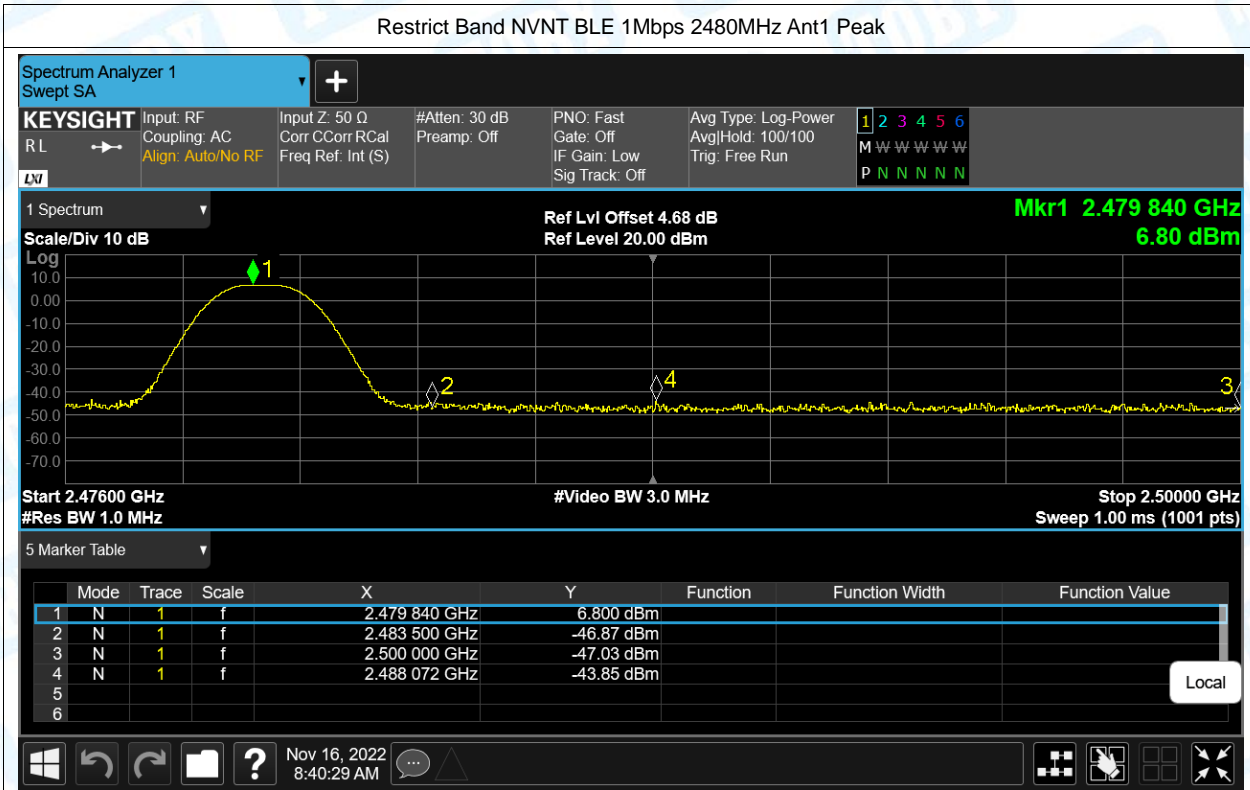




8. Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	2310	-48.33	2	48.93	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2310	-57.62	2	39.64	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2356.464	-44.19	2	53.07	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2321.904	-57.15	2	40.11	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-46.61	2	50.65	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-57.32	2	39.94	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-46.87	2	50.39	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-54.79	2	42.47	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2488.072	-43.85	2	53.41	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.536	-54.63	2	42.63	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-47.03	2	50.23	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-56.2	2	41.06	Average	54	Pass





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