

RF Test Data for Bluetooth LE (Conducted Measurements)

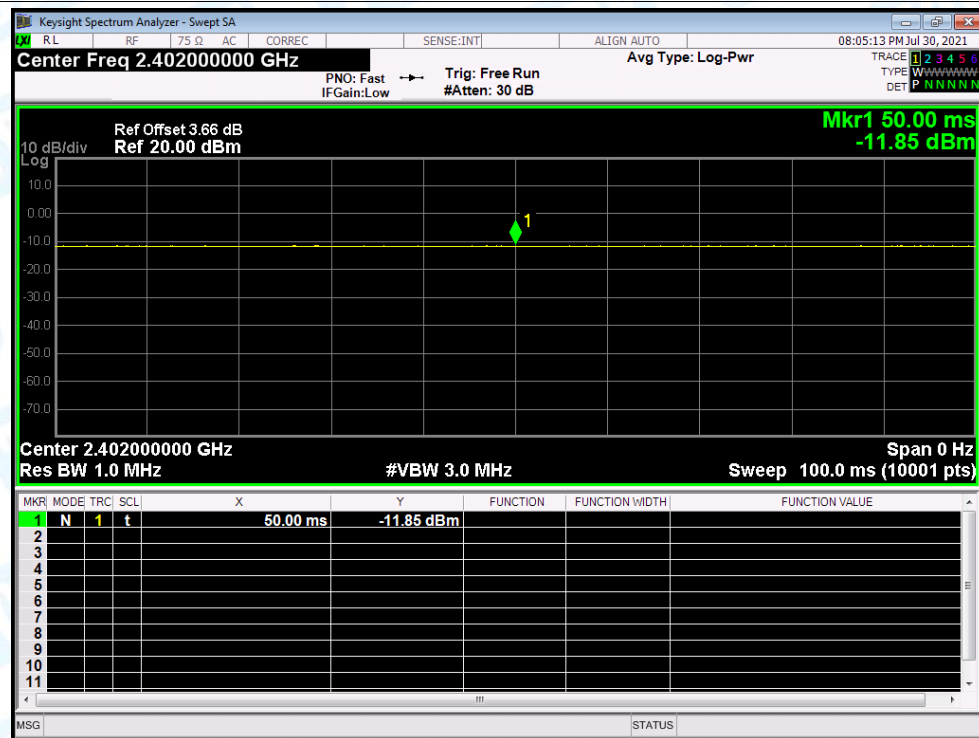
General Description of EUT	
Product Name:	Bluetooth anti loss device
Test Model:	CH-1
Sample ID:	20210720-08_1-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 3V
Test Engineer:	HuangJianPing
Note: For a more detailed features description, please refer to the report TB-FCC182851.	

Duty Cycle

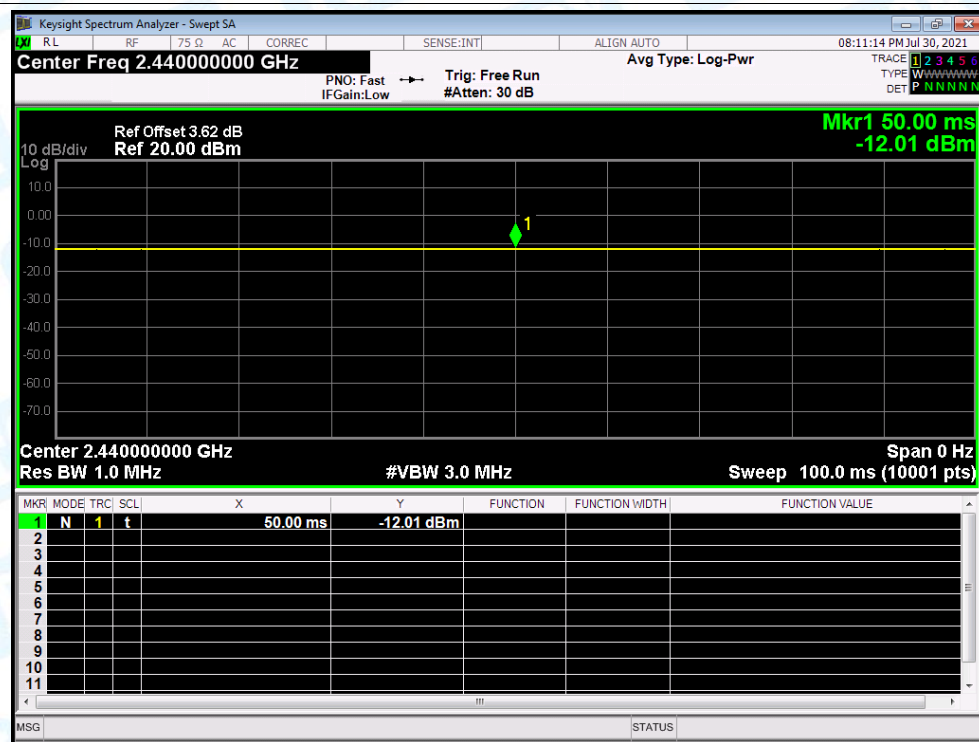
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1Mbps	2402	Ant1	100	0	0
NVNT	BLE 1Mbps	2440	Ant1	100	0	0
NVNT	BLE 1Mbps	2480	Ant1	100	0	0

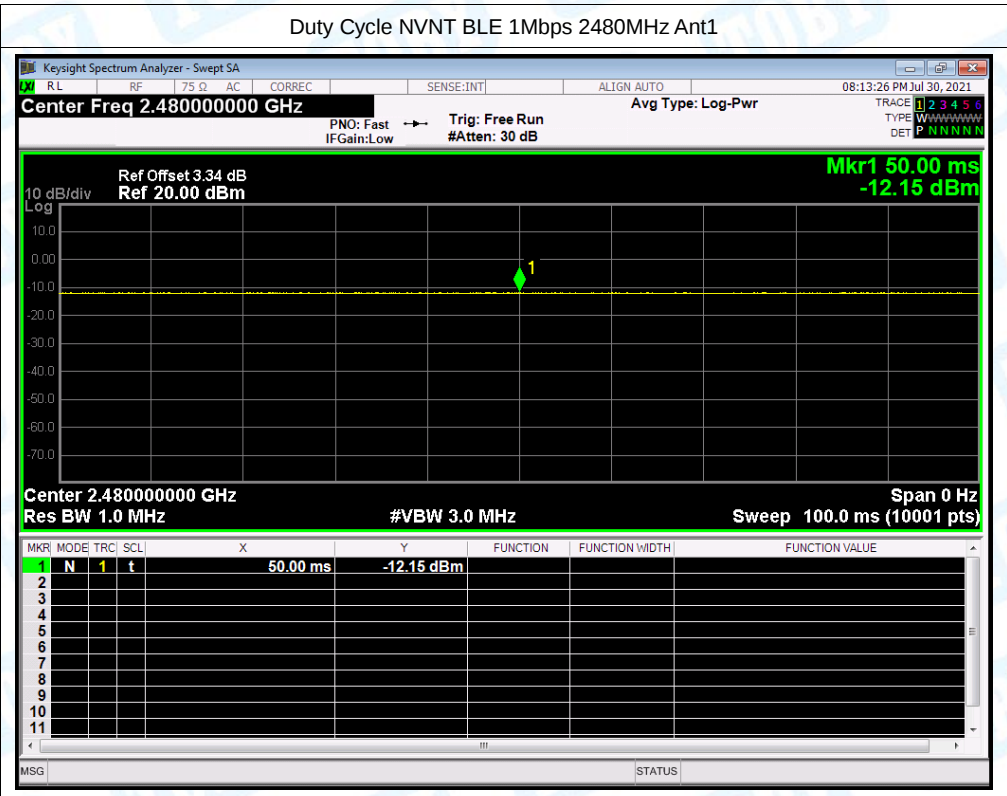
Test Graphs

Duty Cycle NVNT BLE 1Mbps 2402MHz Ant1



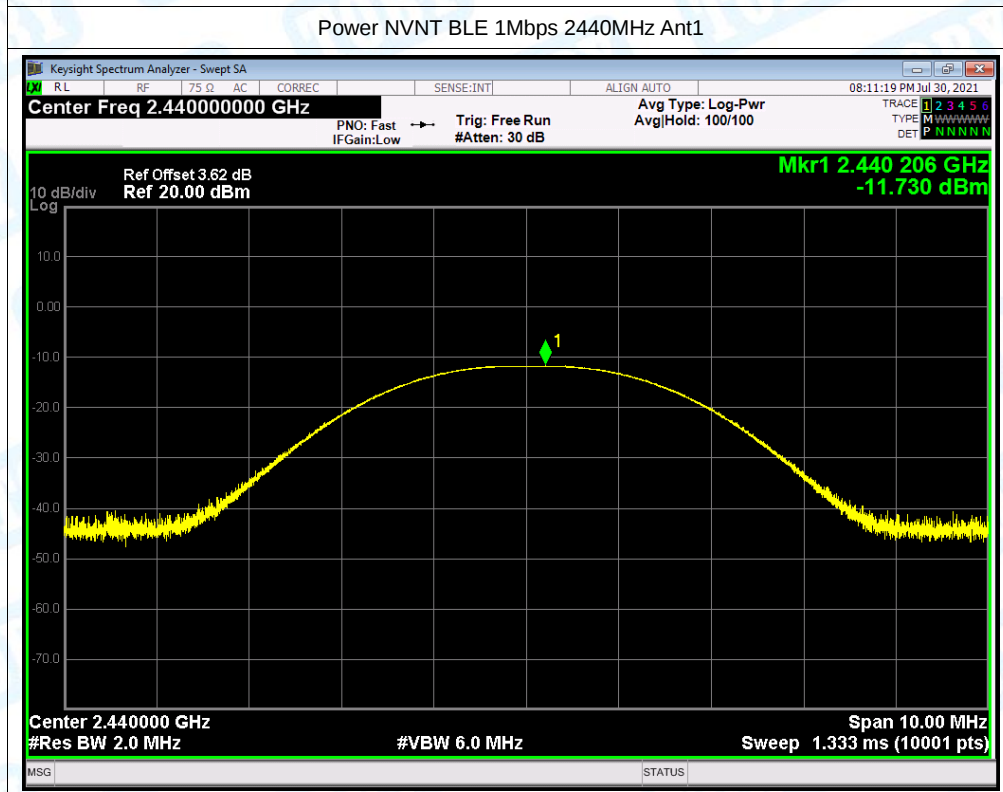
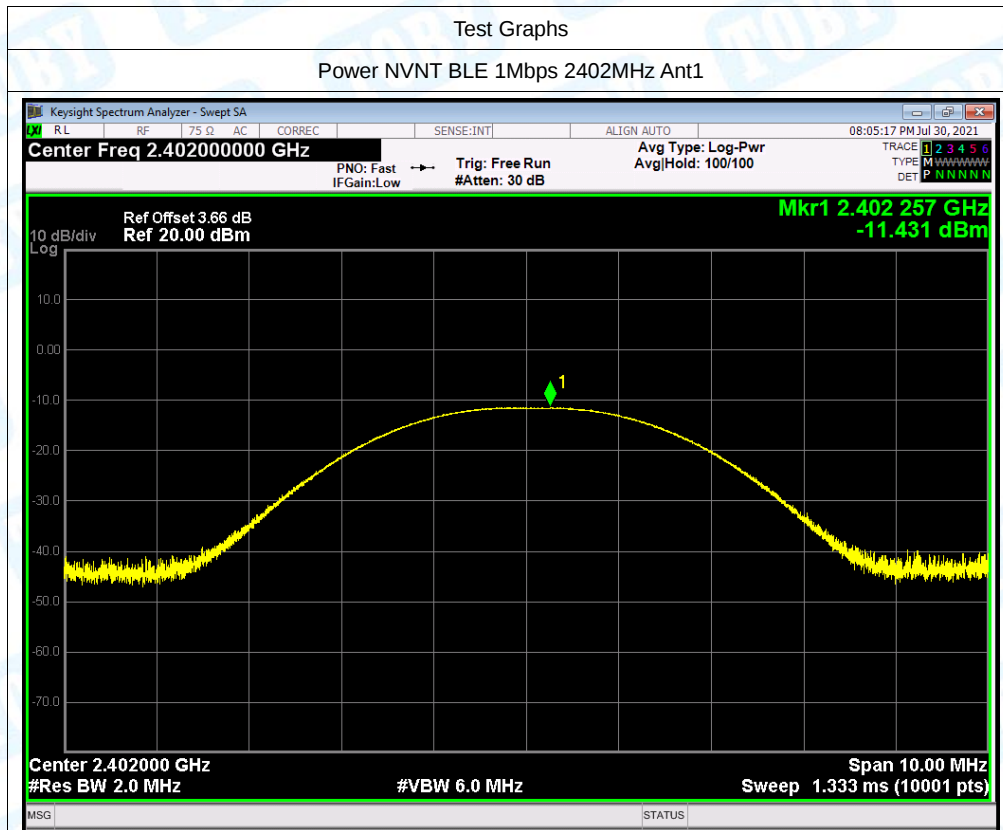
Duty Cycle NVNT BLE 1Mbps 2440MHz Ant1

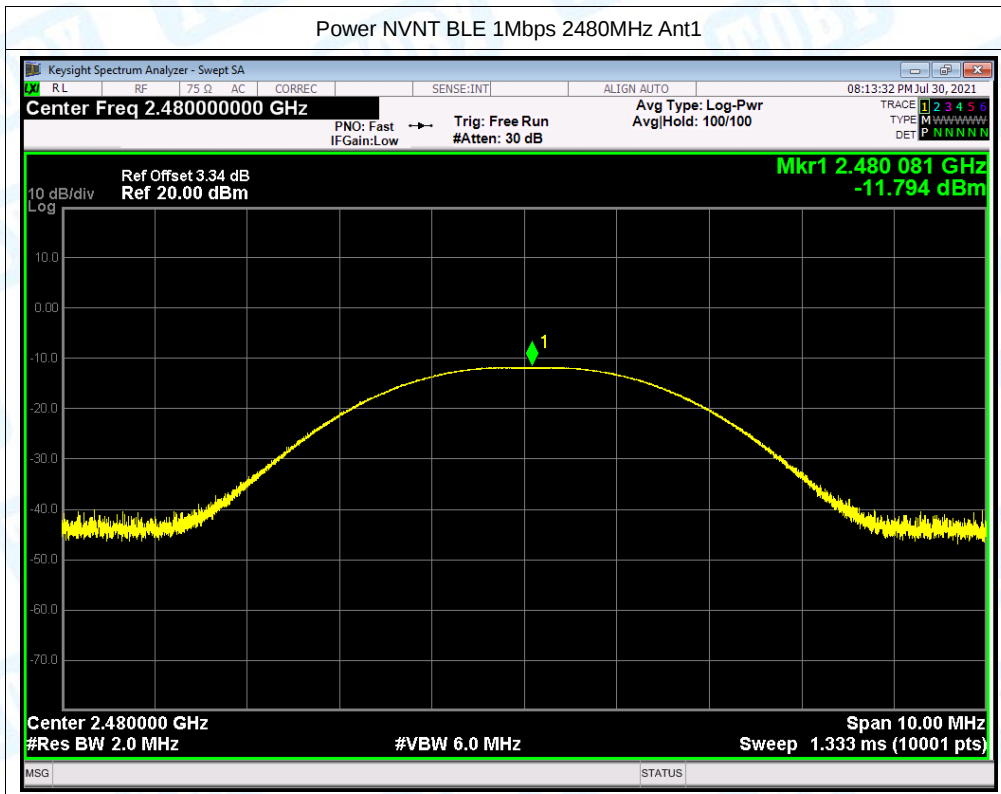




Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-11.431	0	-11.431	30	Pass
NVNT	BLE 1Mbps	2440	Ant1	-11.73	0	-11.73	30	Pass
NVNT	BLE 1Mbps	2480	Ant1	-11.794	0	-11.794	30	Pass



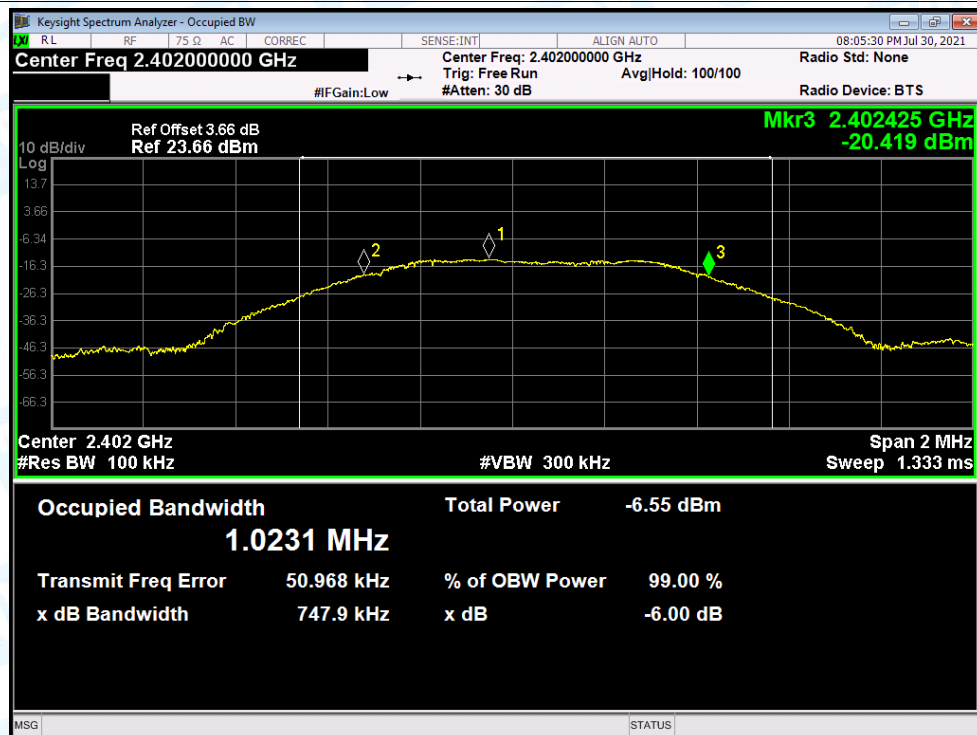


-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	0.748	0.5	Pass
NVNT	BLE 1Mbps	2440	Ant1	0.773	0.5	Pass
NVNT	BLE 1Mbps	2480	Ant1	0.818	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT BLE 1Mbps 2402MHz Ant1



-6dB Bandwidth NVNT BLE 1Mbps 2440MHz Ant1



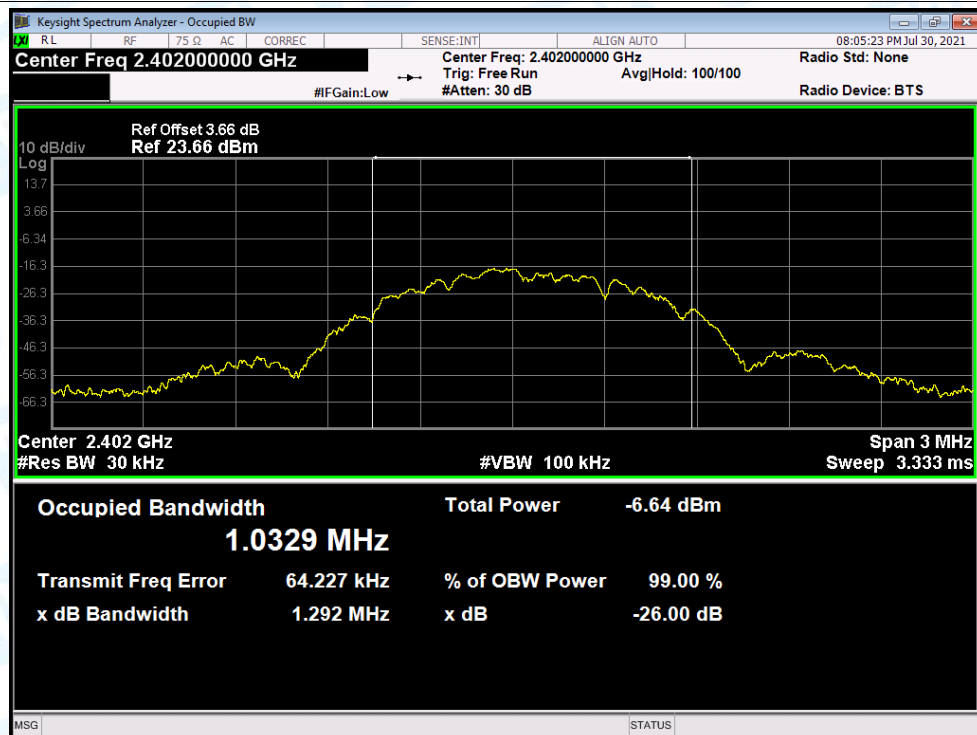


Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1Mbps	2402	Ant1	1.032921829
NVNT	BLE 1Mbps	2440	Ant1	1.042319961
NVNT	BLE 1Mbps	2480	Ant1	1.06916815

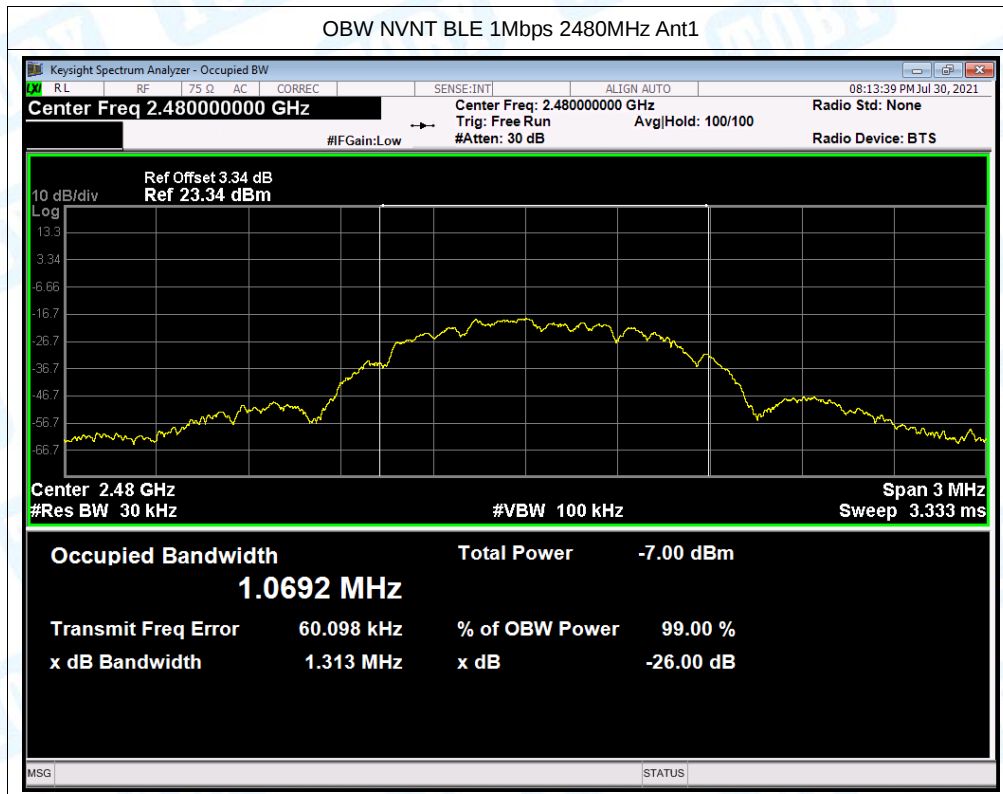
Test Graphs

OBW NVNT BLE 1Mbps 2402MHz Ant1



OBW NVNT BLE 1Mbps 2440MHz Ant1



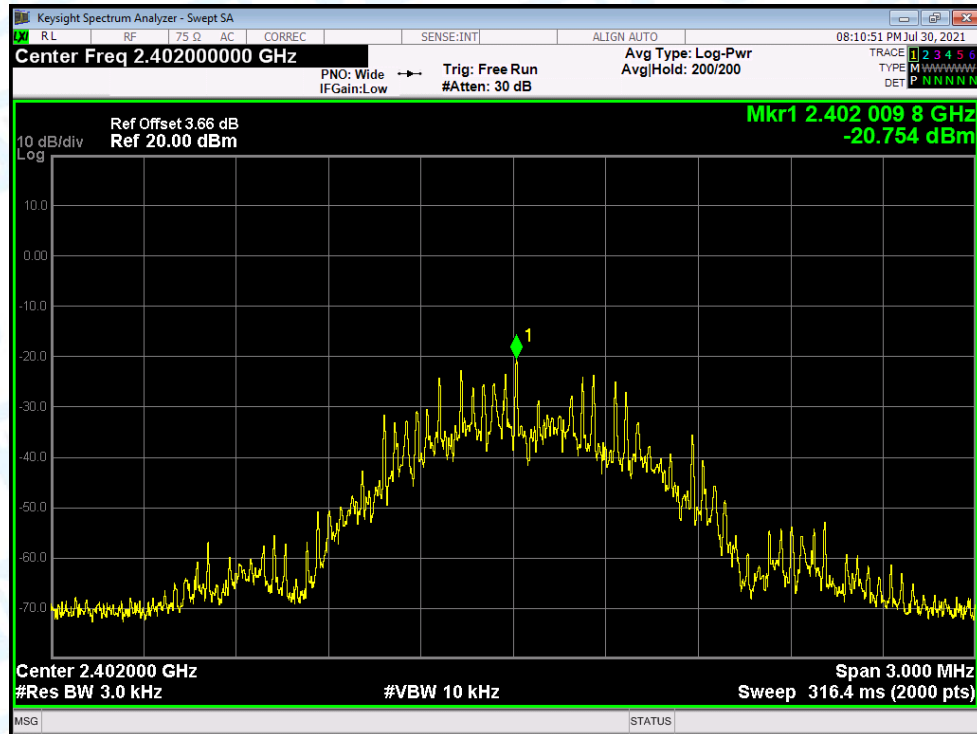


Maximum Power Spectral Density Level

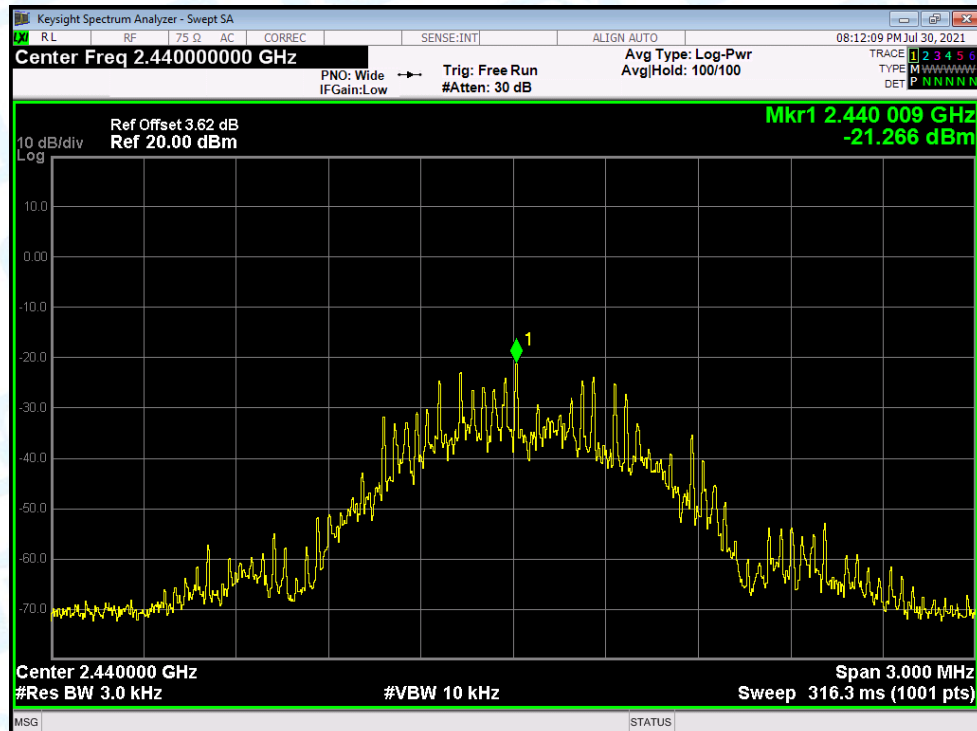
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-20.754	8	Pass
NVNT	BLE 1Mbps	2440	Ant1	-21.266	8	Pass
NVNT	BLE 1Mbps	2480	Ant1	-21.53	8	Pass

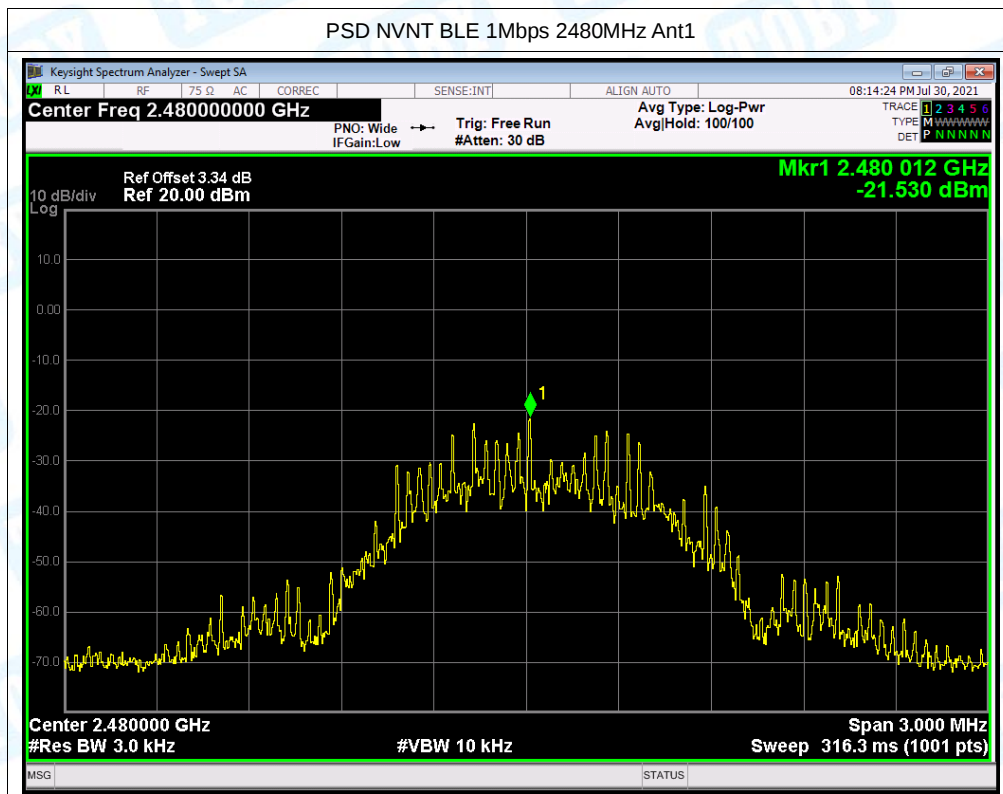
Test Graphs

PSD NVNT BLE 1Mbps 2402MHz Ant1



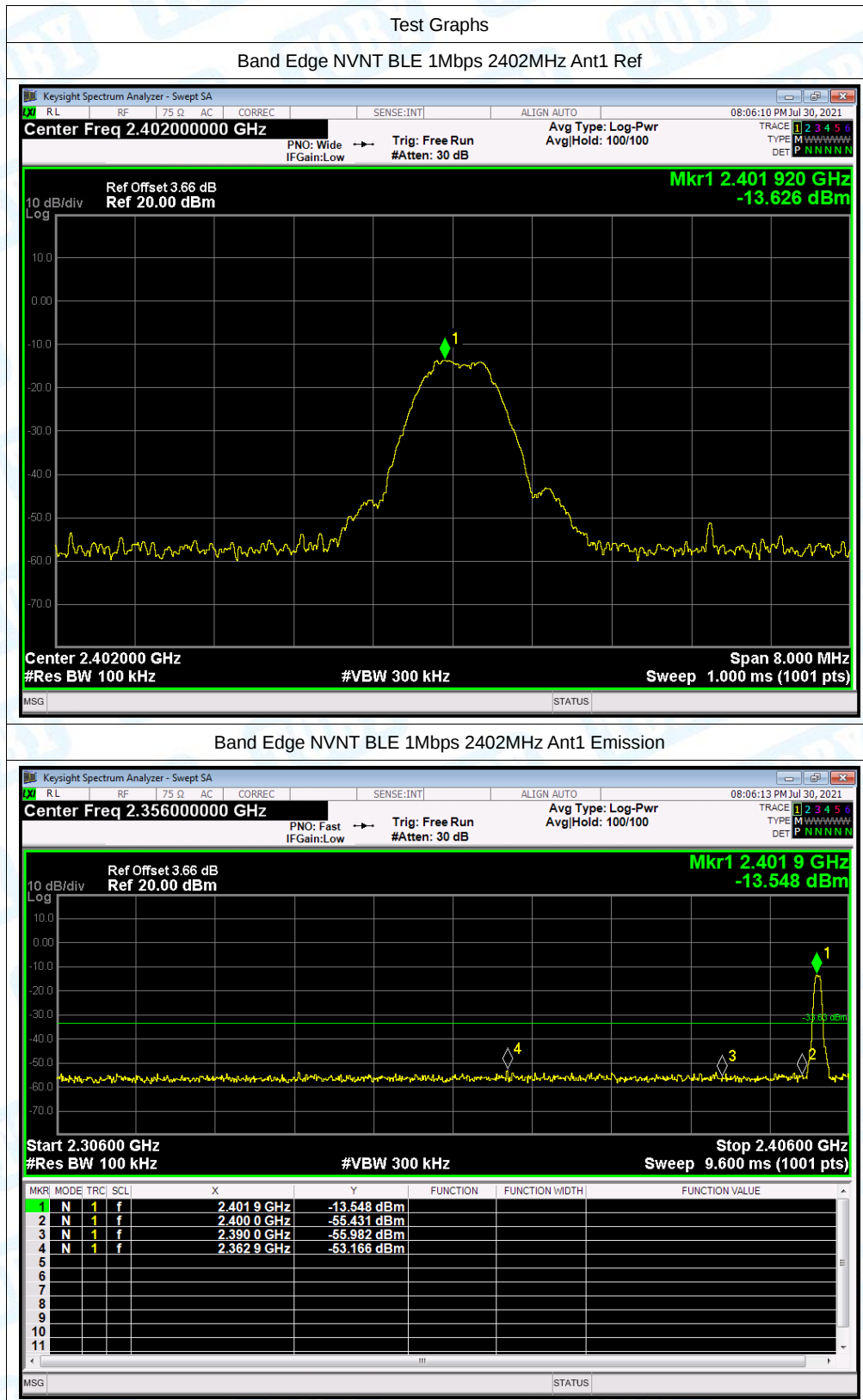
PSD NVNT BLE 1Mbps 2440MHz Ant1



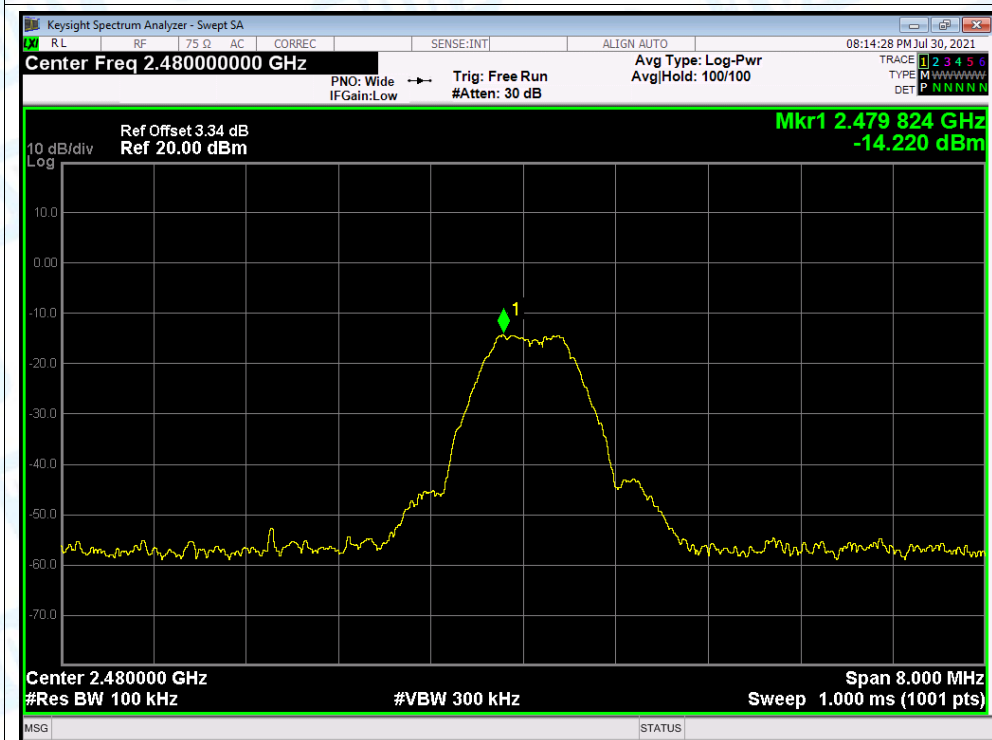


Band Edge

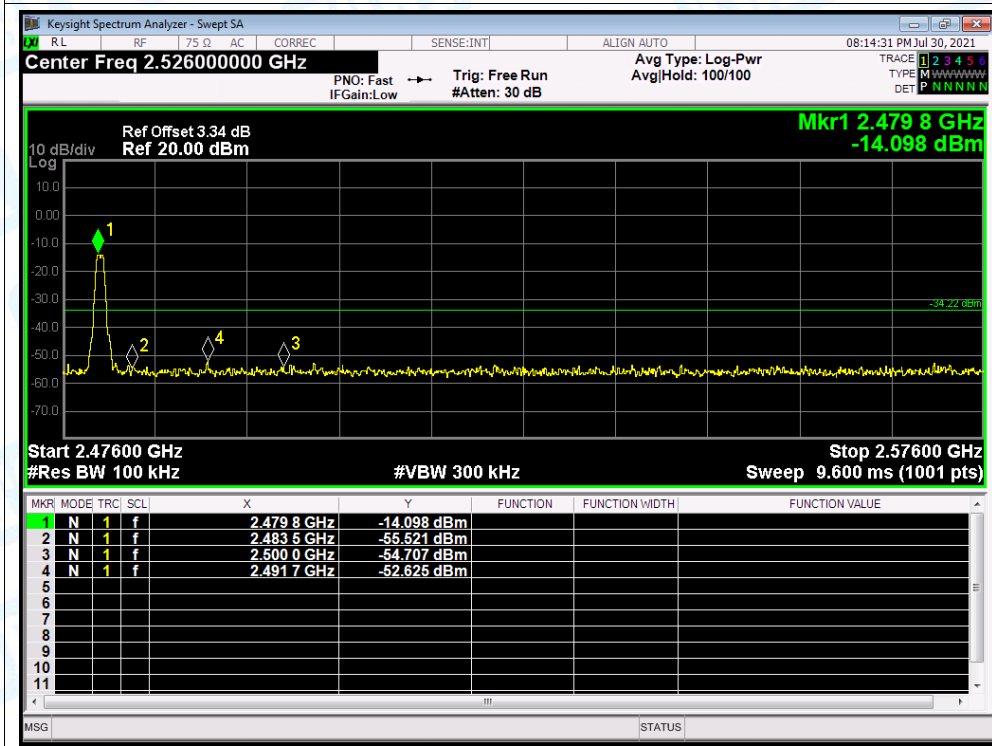
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-39.53	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-38.4	-20	Pass



Band Edge NVNT BLE 1Mbps 2480MHz Ant1 Ref

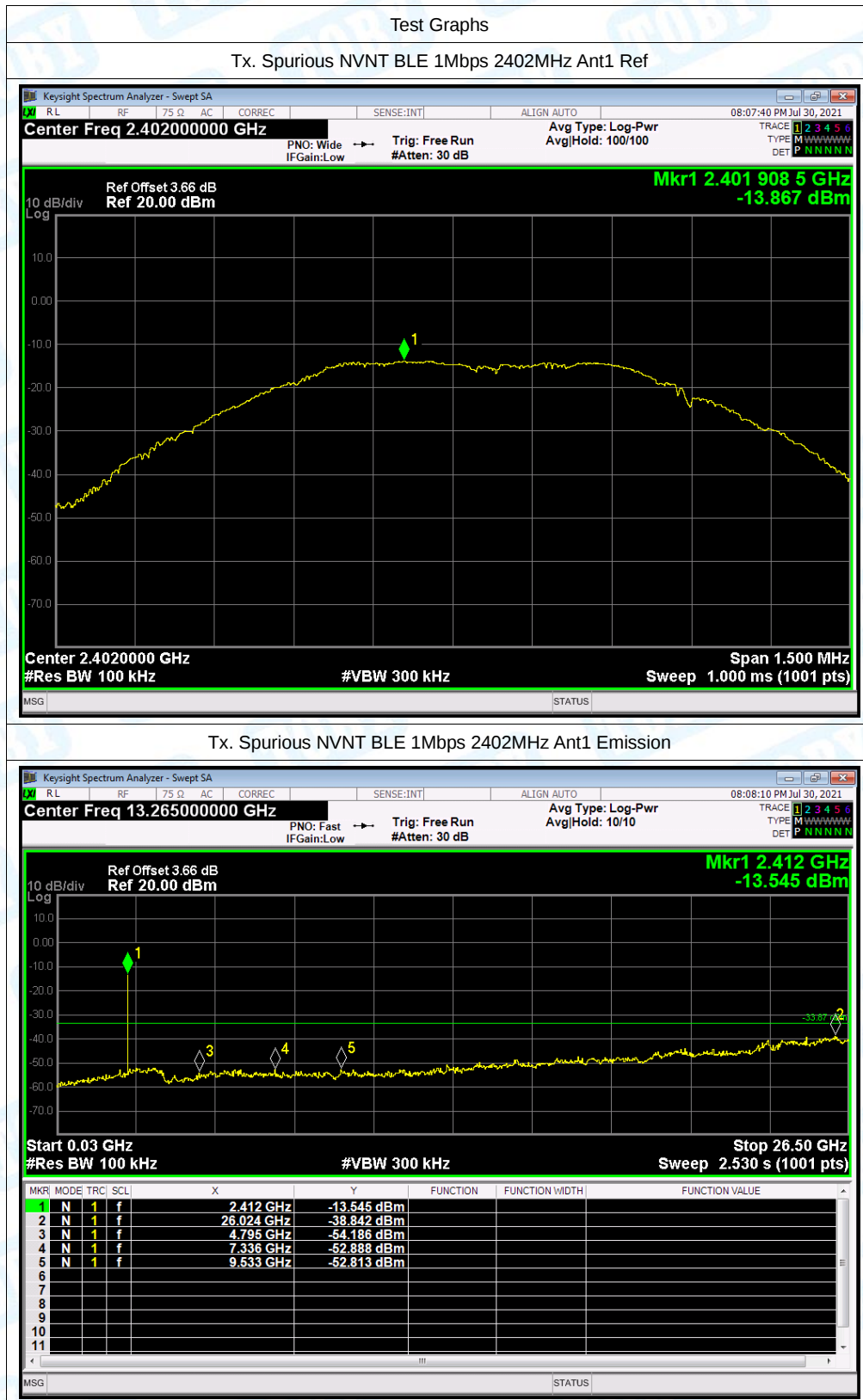


Band Edge NVNT BLE 1Mbps 2480MHz Ant1 Emission

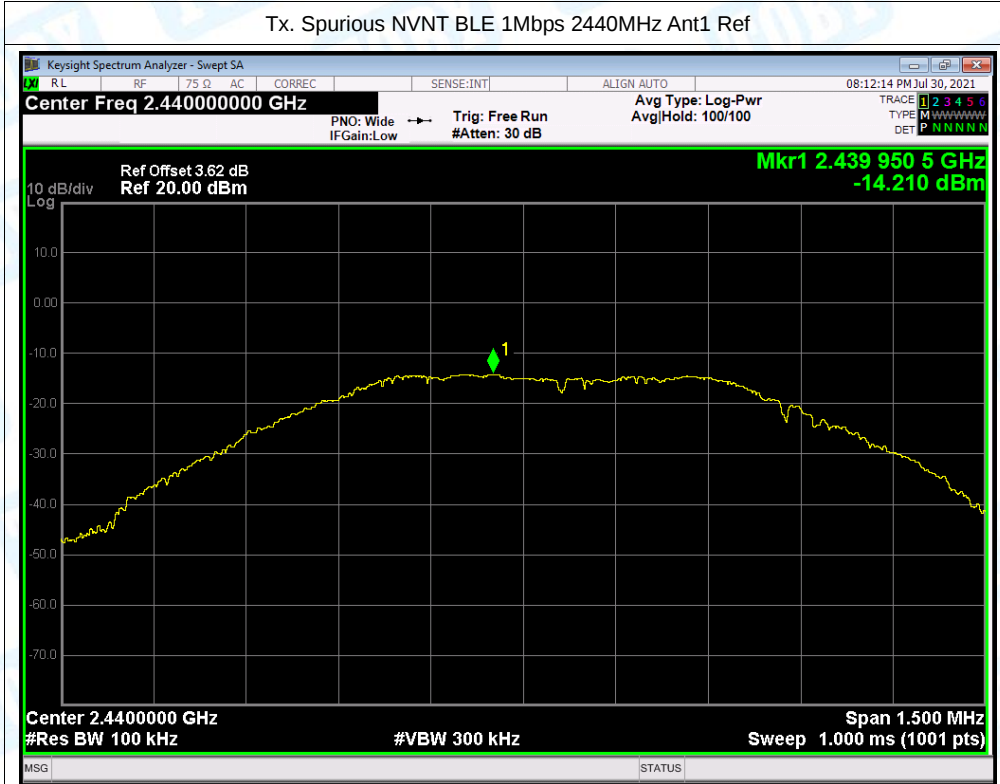


Conducted RF Spurious Emission

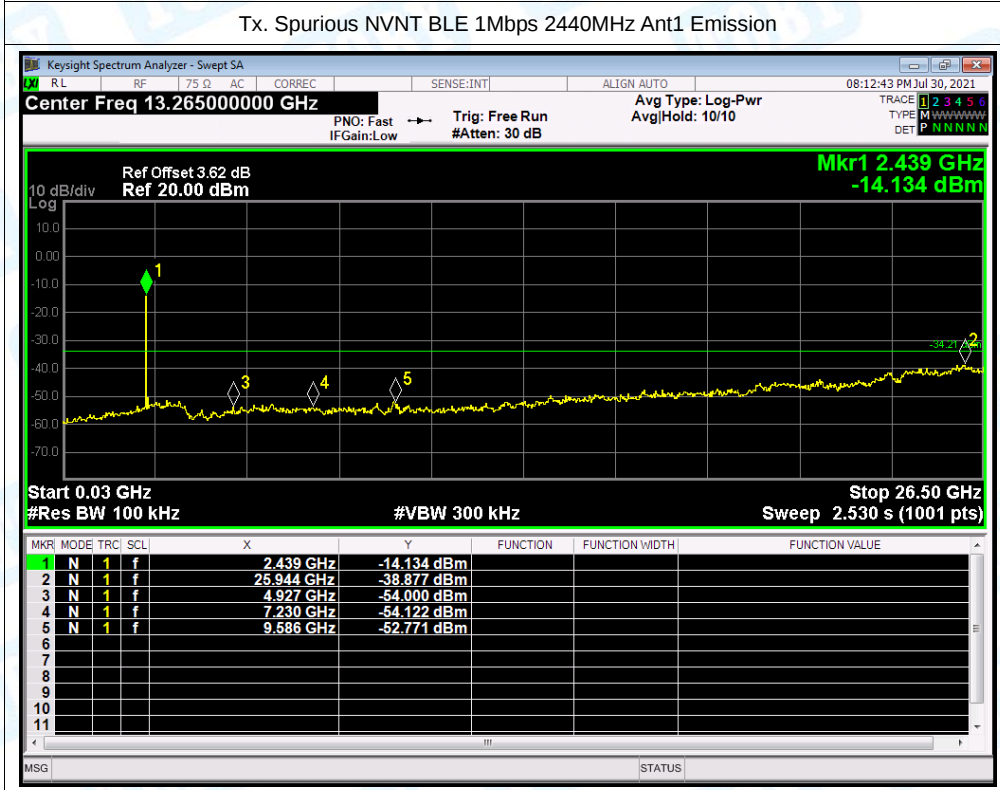
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-24.97	-20	Pass
NVNT	BLE 1Mbps	2440	Ant1	-24.66	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-24.97	-20	Pass



Tx. Spurious NVNT BLE 1Mbps 2440MHz Ant1 Ref



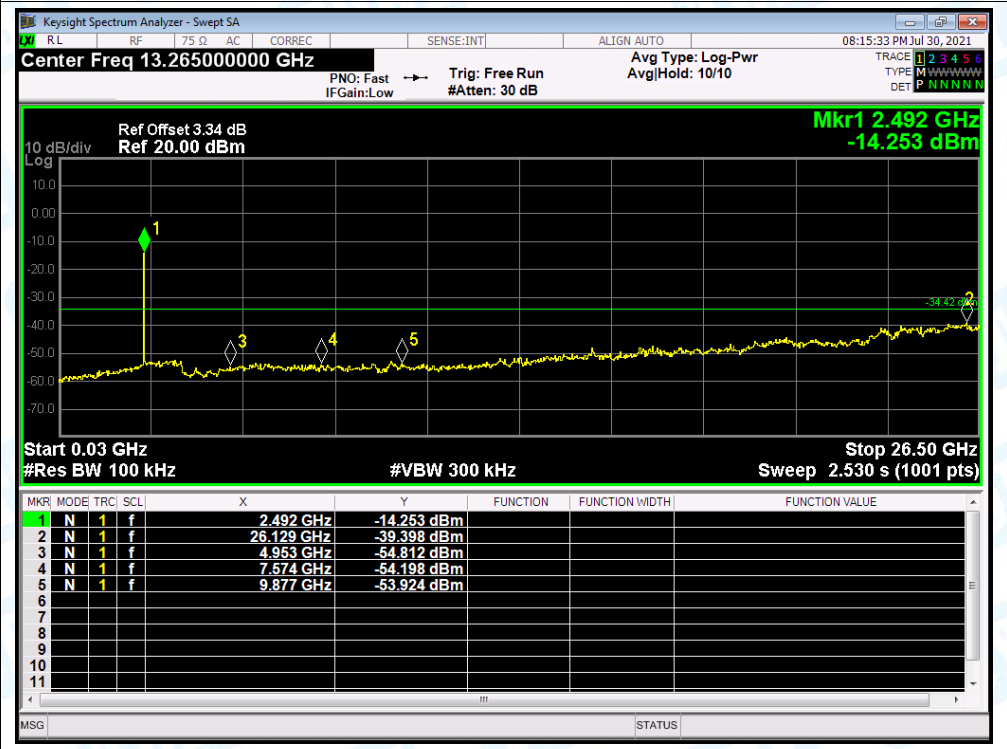
Tx. Spurious NVNT BLE 1Mbps 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 1Mbps 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1Mbps 2480MHz Ant1 Emission

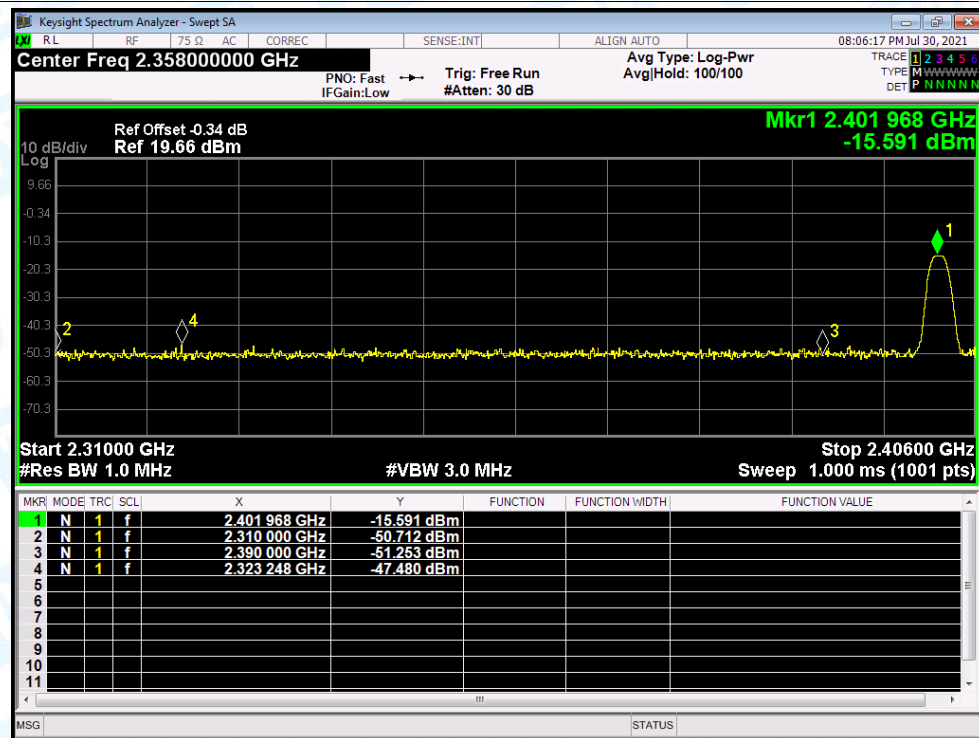


Restrict Band

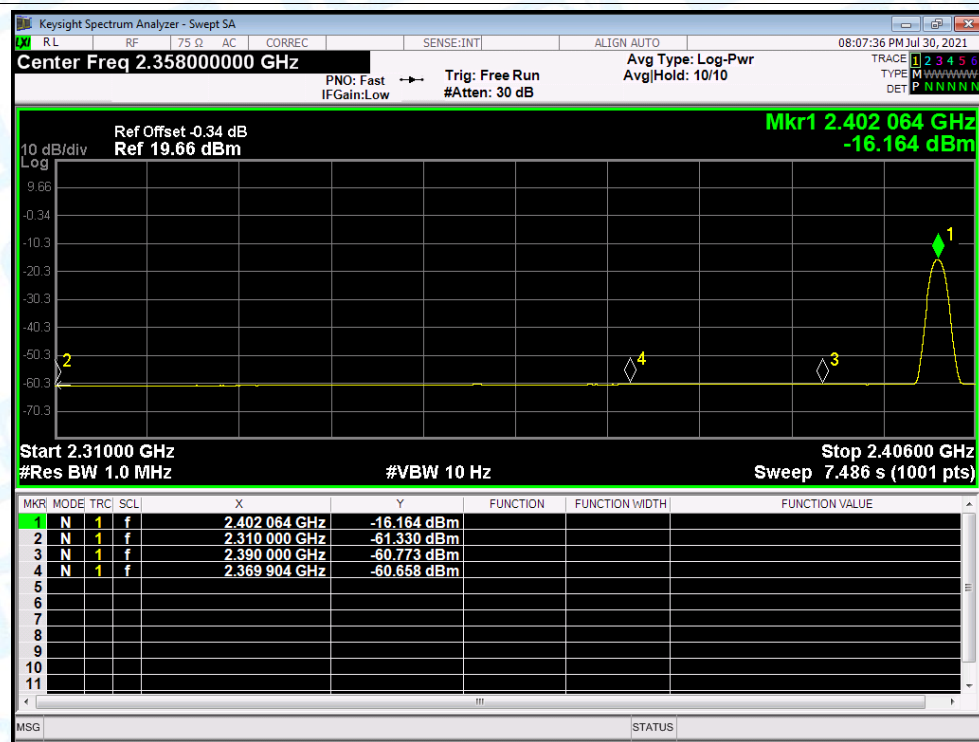
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	2310	-51.26	2	46	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2310	-61.34	2	35.92	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2323.248	-47.47	2	49.79	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2369.904	-60.65	2	36.61	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-51.1	2	46.16	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-60.78	2	36.48	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-48.91	2	48.35	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-60.42	2	36.84	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2484.088	-46.68	2	50.58	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.512	-60.42	2	36.84	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-49.51	2	47.75	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-60.46	2	36.8	Average	54	Pass

Test Graphs

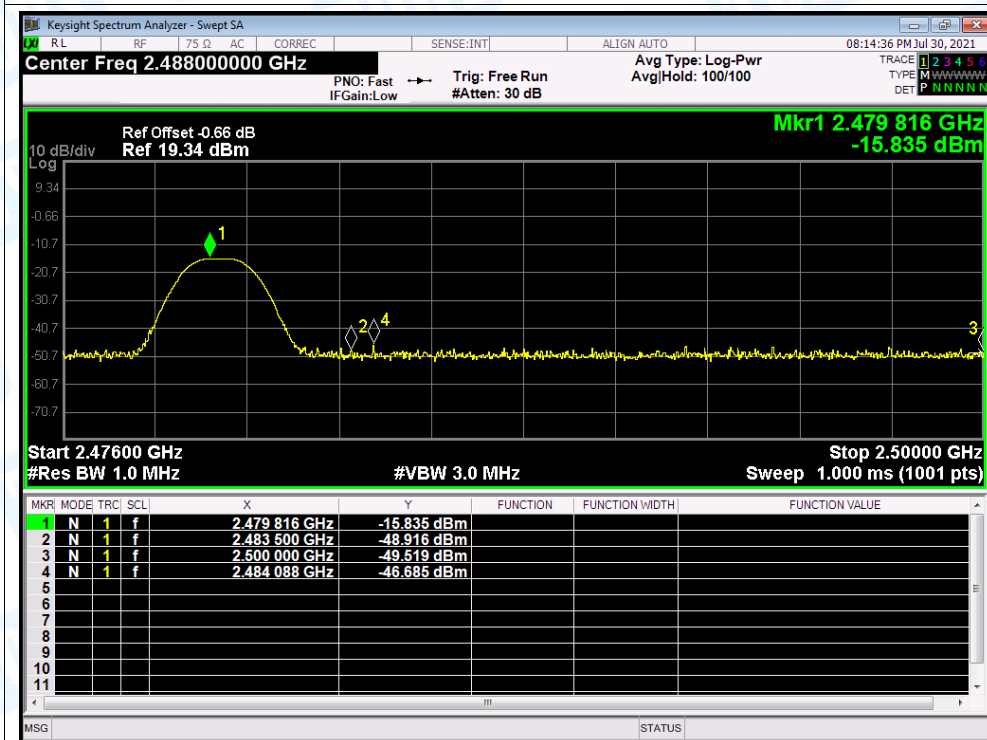
Restrict Band NVNT BLE 1Mbps 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1Mbps 2402MHz Ant1 Average



Restrict Band NVNT BLE 1Mbps 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1Mbps 2480MHz Ant1 Average

