

RF Test Data for 2.4G

(Conducted Measurements)

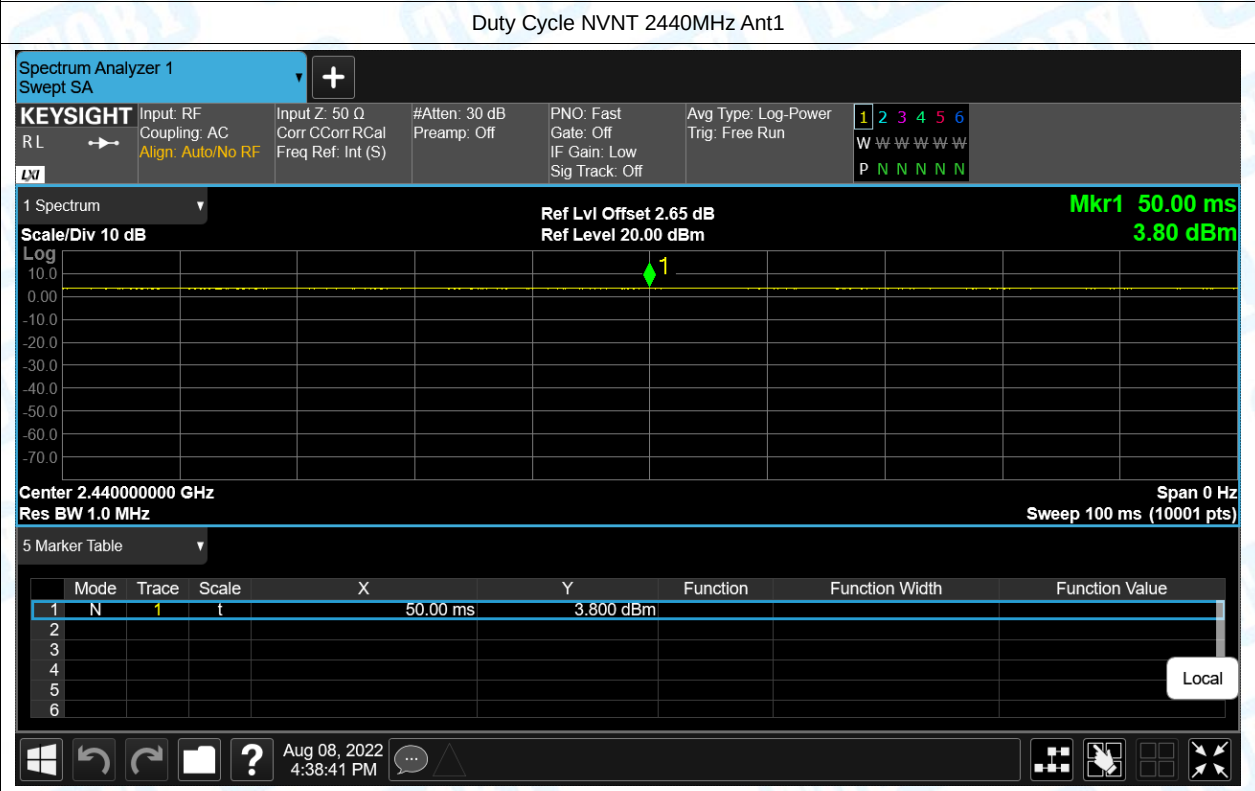
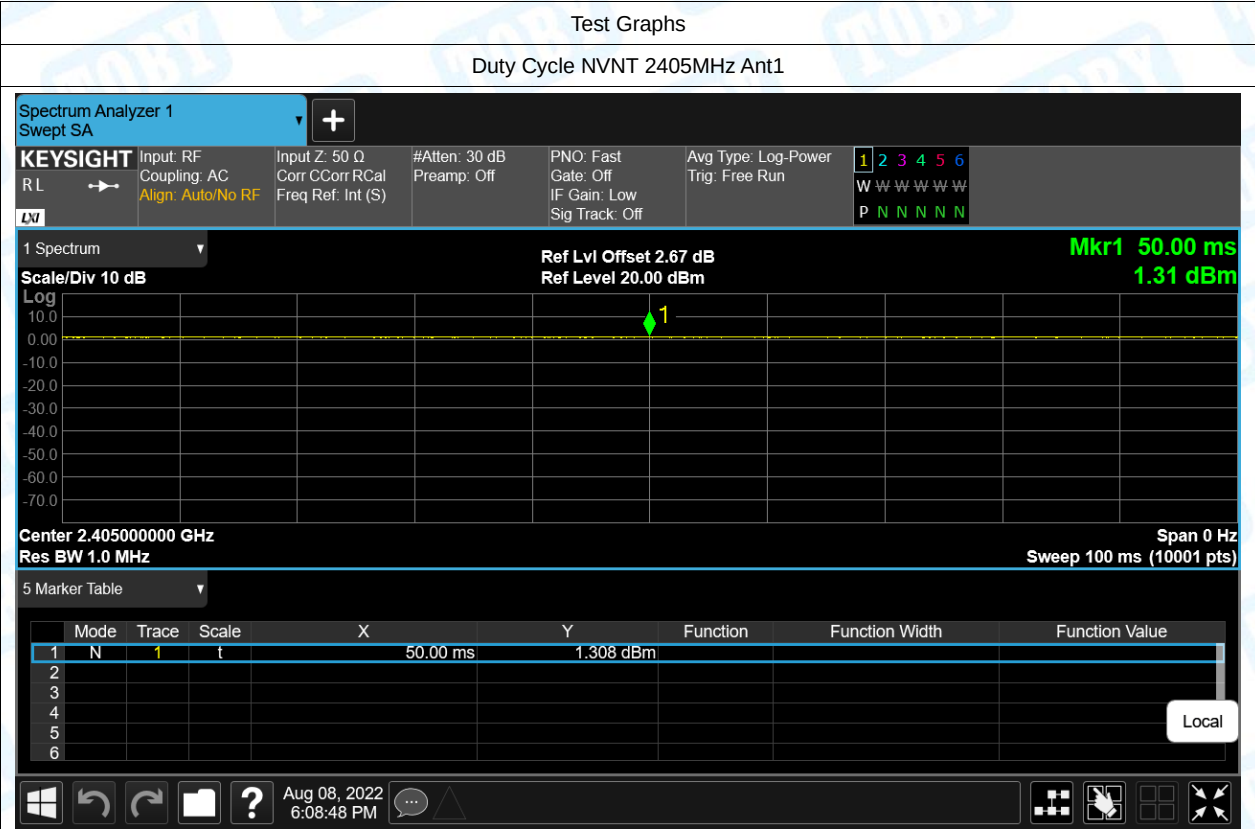
General Description of EUT	
Product Name:	Mini Keyboard
Test Model:	MK321-Pro
Sample ID:	202206-0317_01-02#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 5V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202206-0317-11.	

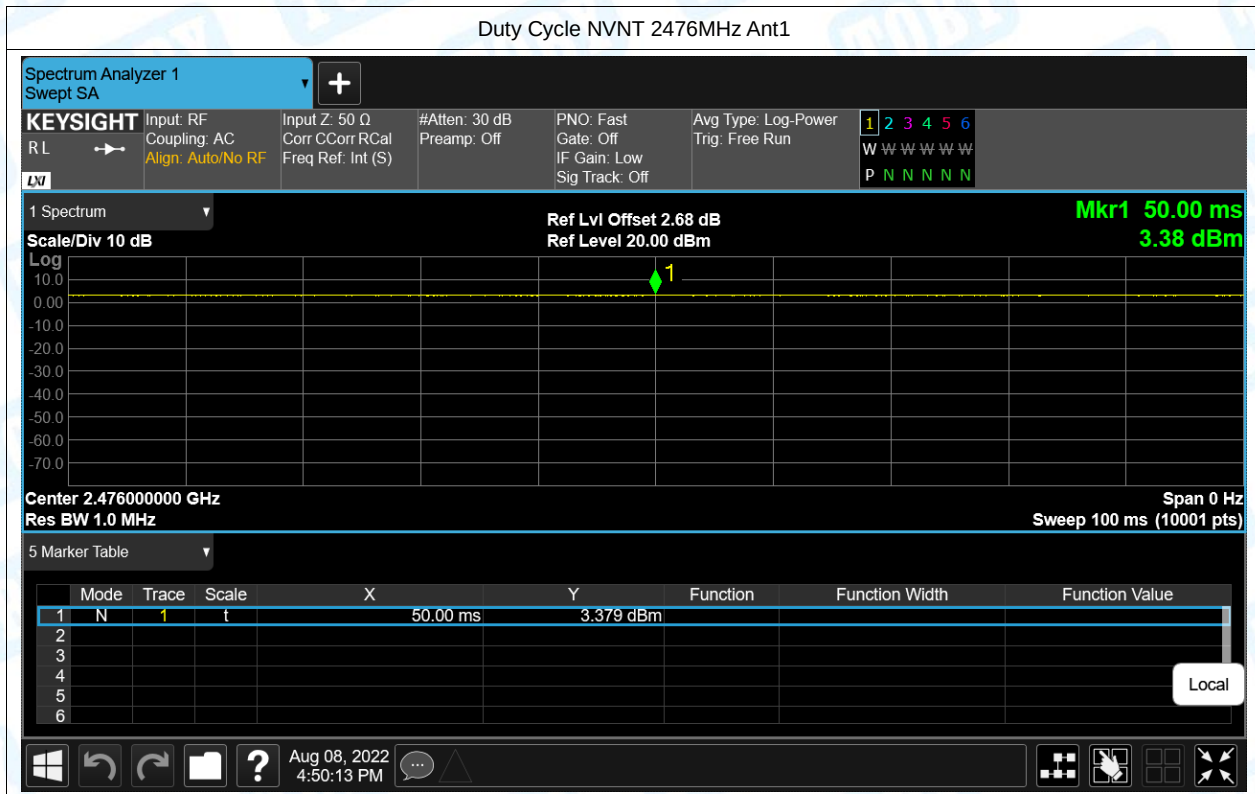
Contents

1.Duty Cycle.....	3
2.Maximum Conducted Output Power	6
3.-6dB Bandwidth	9
4.Occupied Channel Bandwidth	12
5.Maximum Power Spectral Density Level.....	15
6.Band Edge	18
7.Conducted RF Spurious Emission	21
8.Restrict Band	25

1.Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	GFSK	2405	Ant1	100	0	0.01
NVNT	GFSK	2440	Ant1	100	0	0.01
NVNT	GFSK	2476	Ant1	100	0	0.01



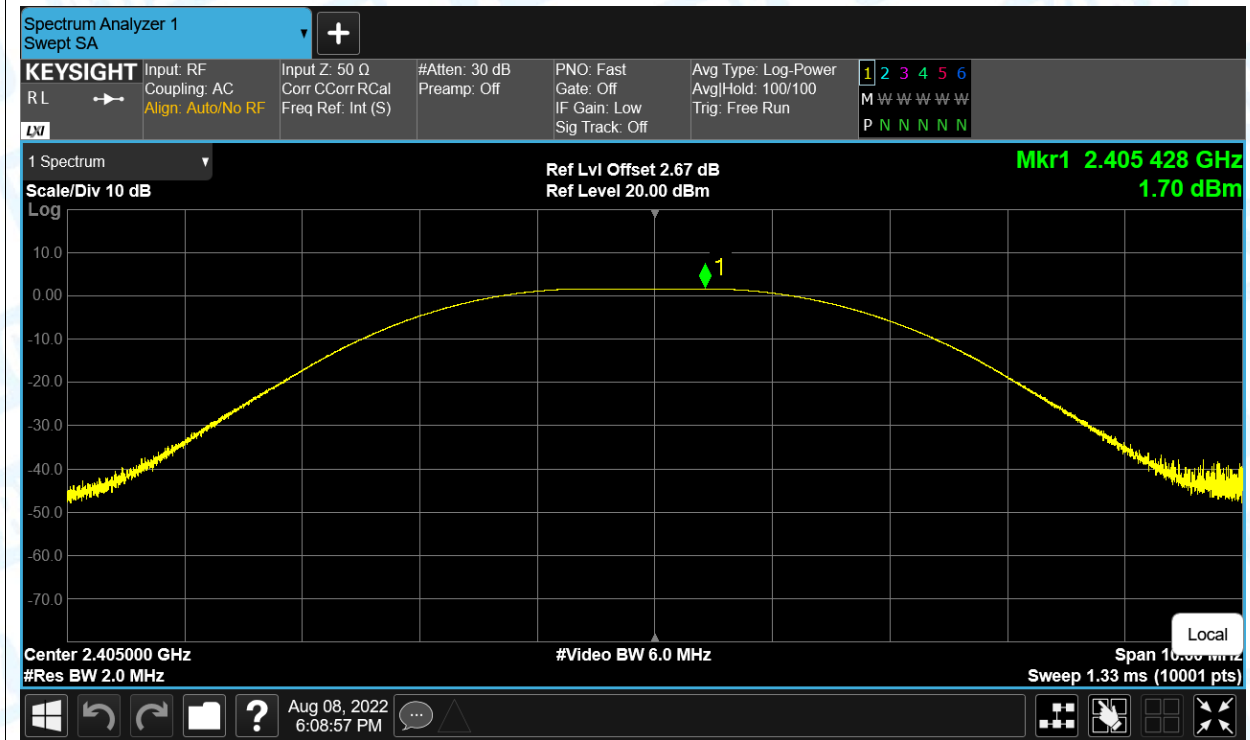


2.Maximum Conducted Output Power

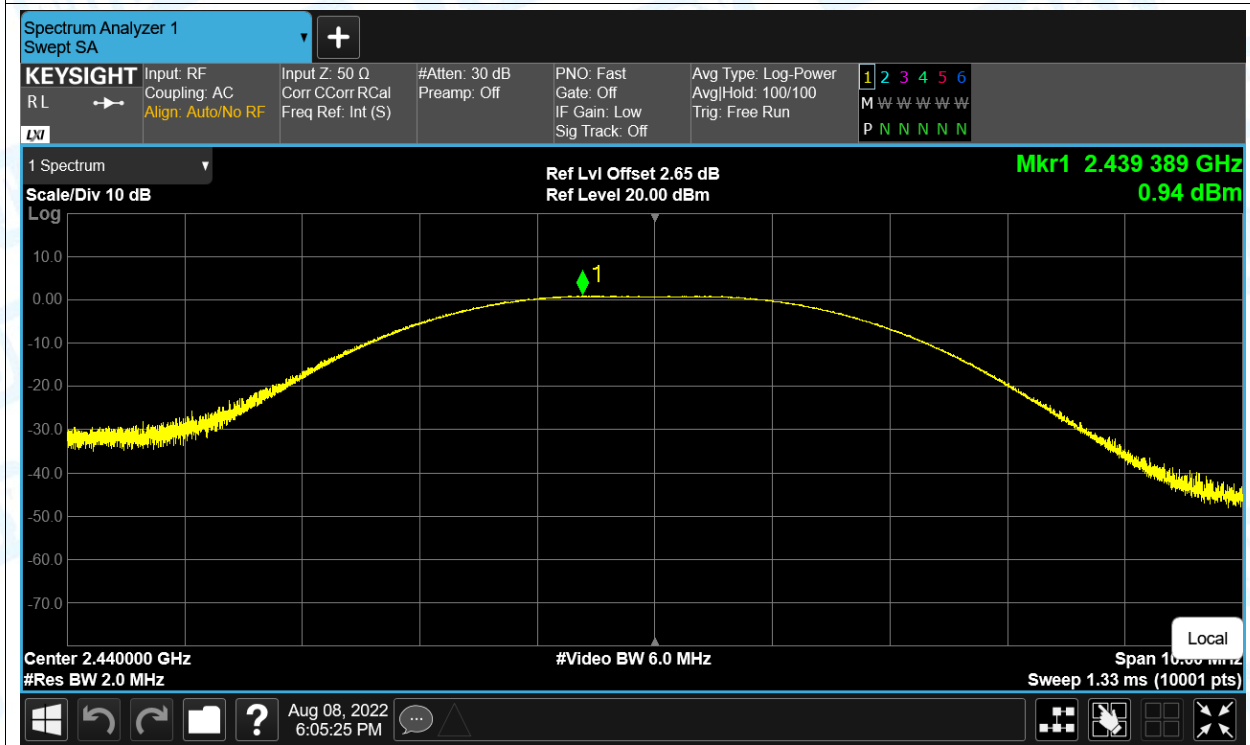
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	GFSK	2405	Ant1	1.697	30	Pass
NVNT	GFSK	2440	Ant1	0.939	30	Pass
NVNT	GFSK	2476	Ant1	0.232	30	Pass

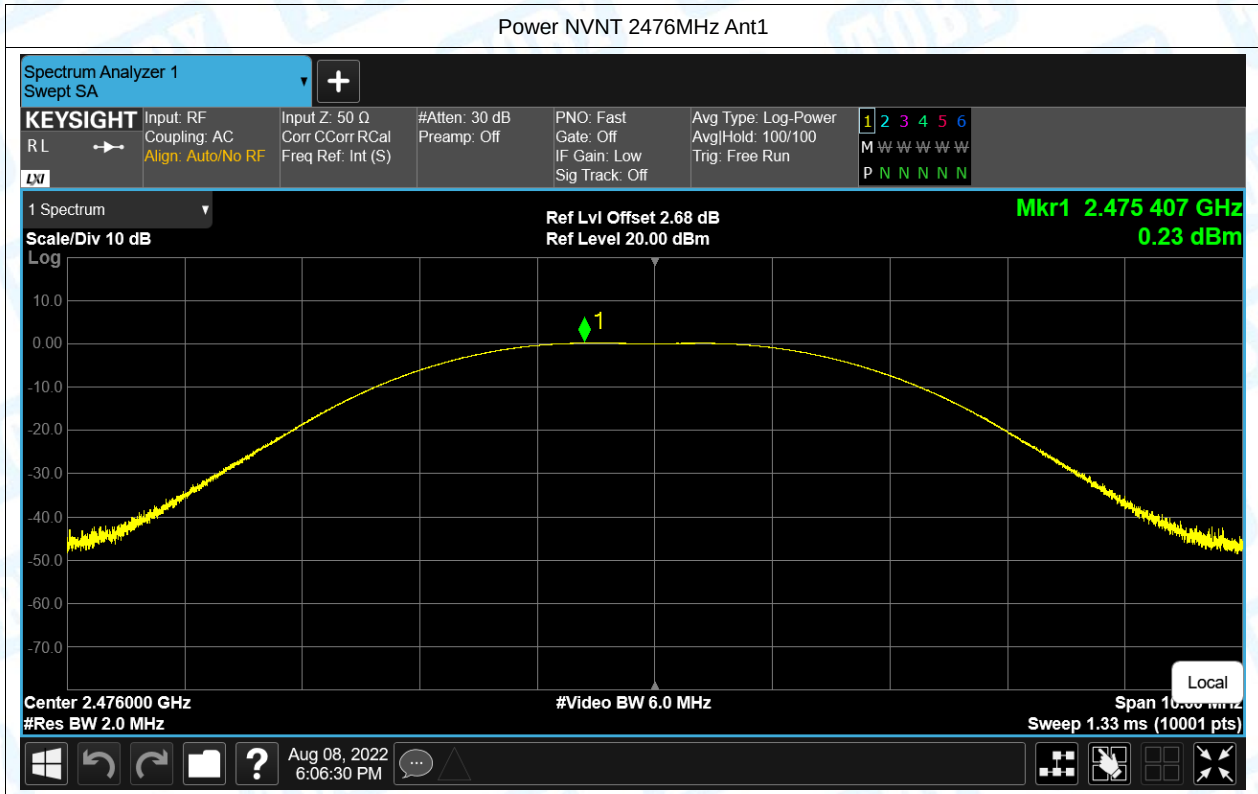
Test Graphs

Power NVNT 2405MHz Ant1



Power NVNT 2440MHz Ant1



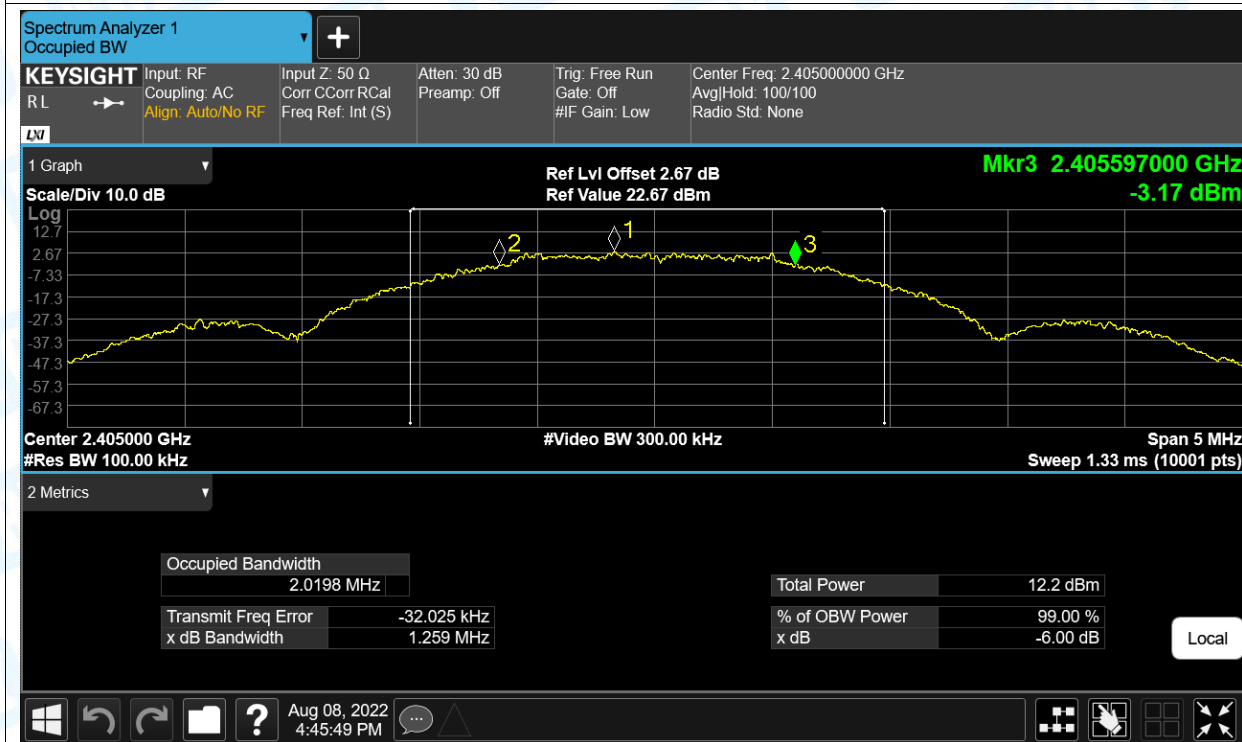


3.-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	GFSK	2405	Ant1	1.26	0.5	Pass
NVNT	GFSK	2440	Ant1	1.27	0.5	Pass
NVNT	GFSK	2476	Ant1	1.42	0.5	Pass

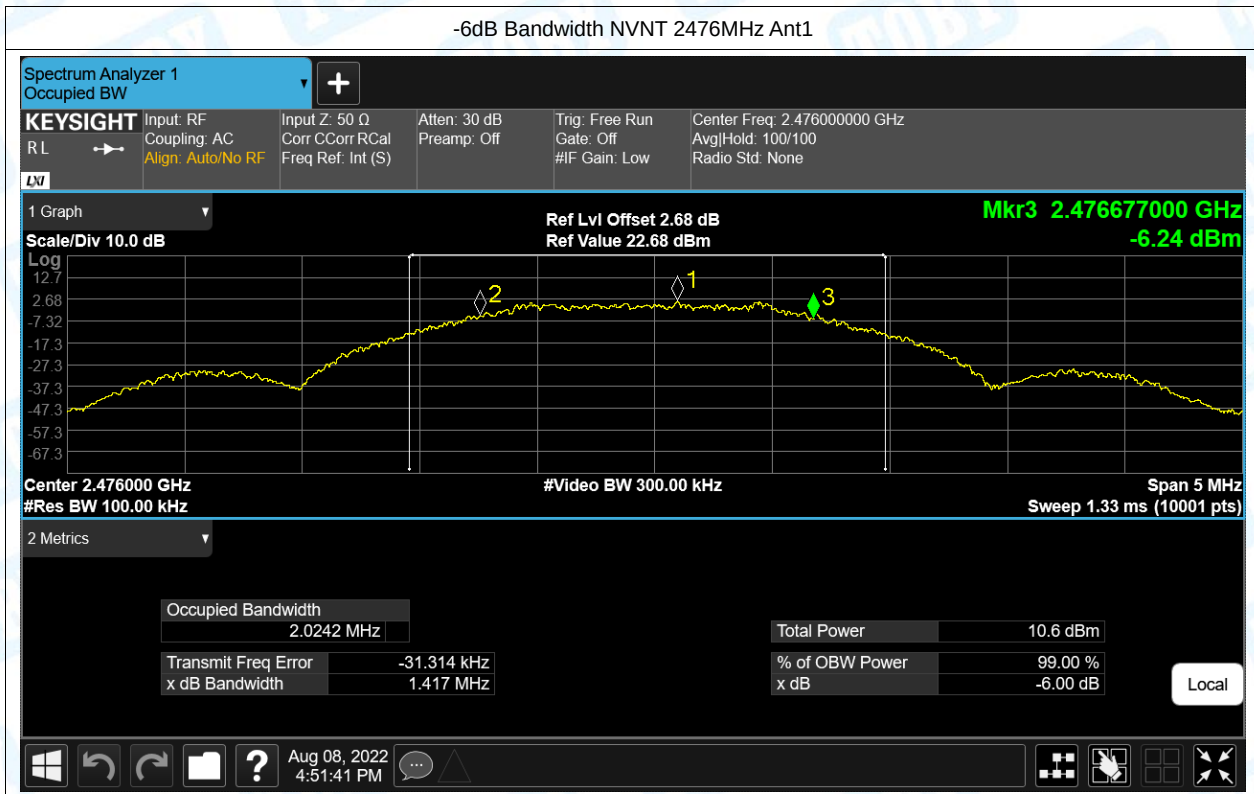
Test Graphs

-6dB Bandwidth NVNT 2405MHz Ant1



-6dB Bandwidth NVNT 2440MHz Ant1



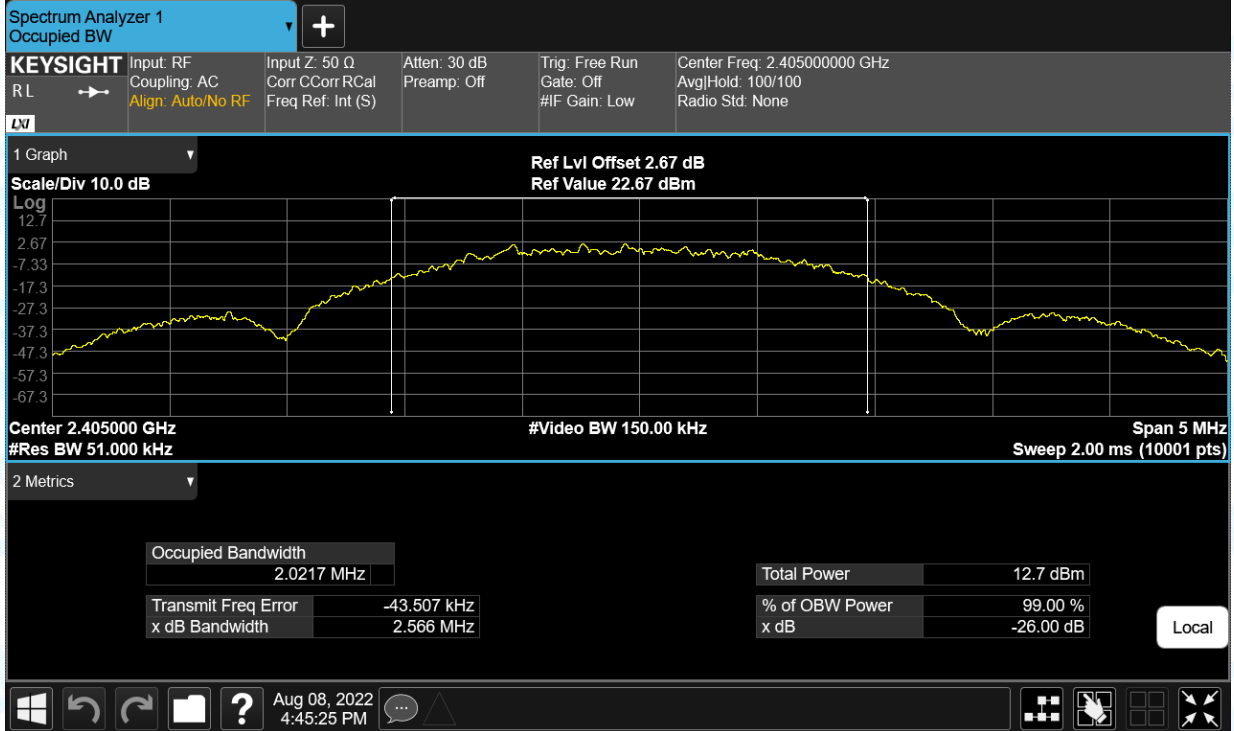


4.Occupied Channel Bandwidth

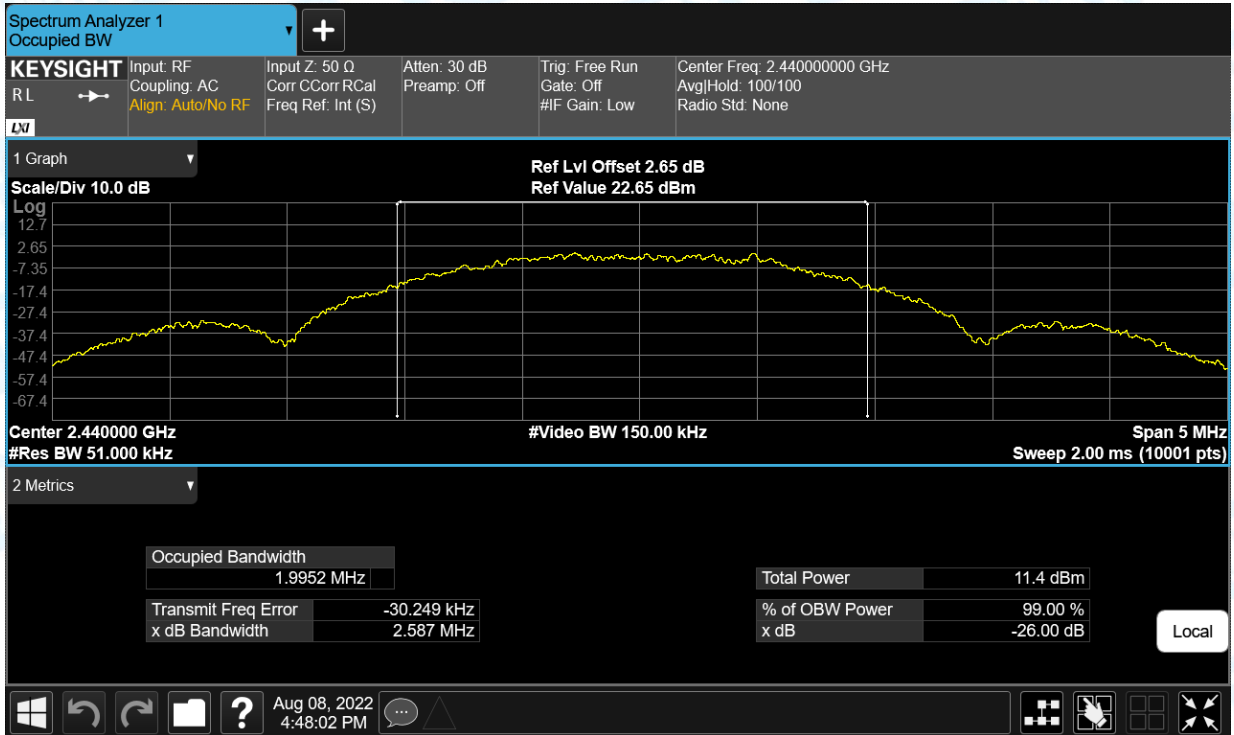
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	GFSK	2405	Ant1	2.022
NVNT	GFSK	2440	Ant1	1.995
NVNT	GFSK	2476	Ant1	2.016

Test Graphs

OBW NVNT 2405MHz Ant1



OBW NVNT 2440MHz Ant1



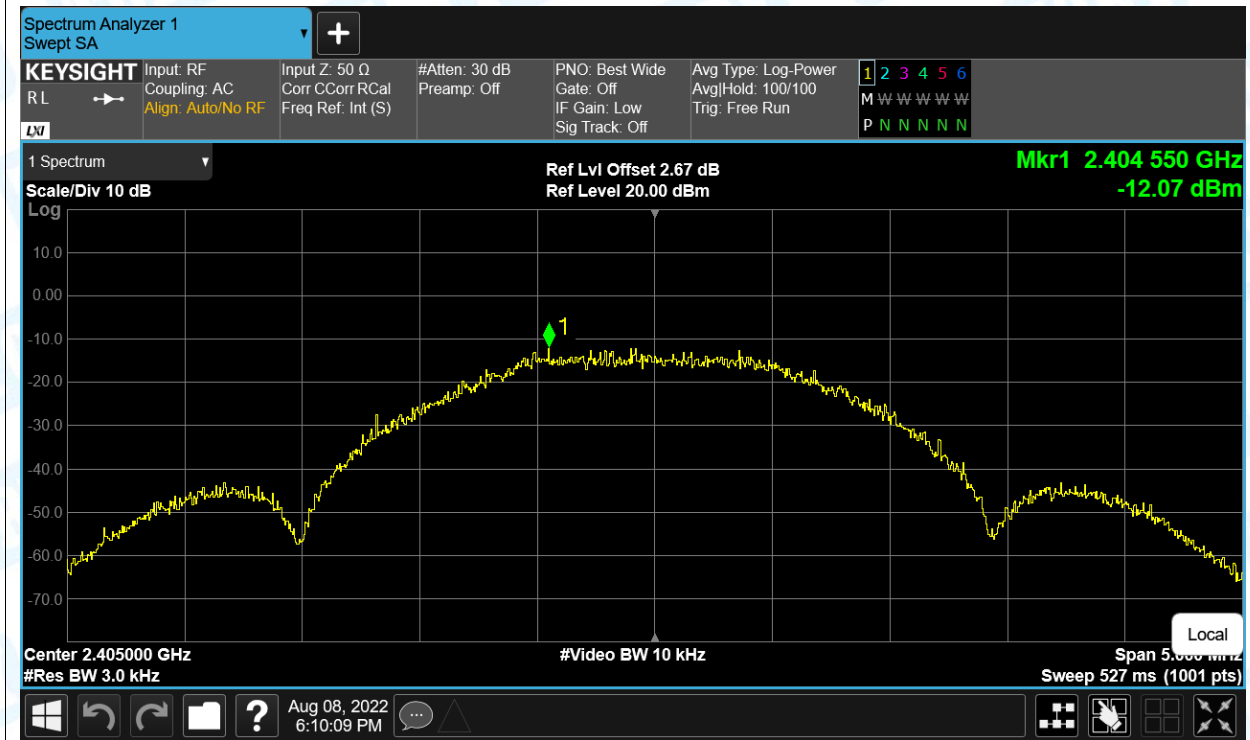


5.Maximum Power Spectral Density Level

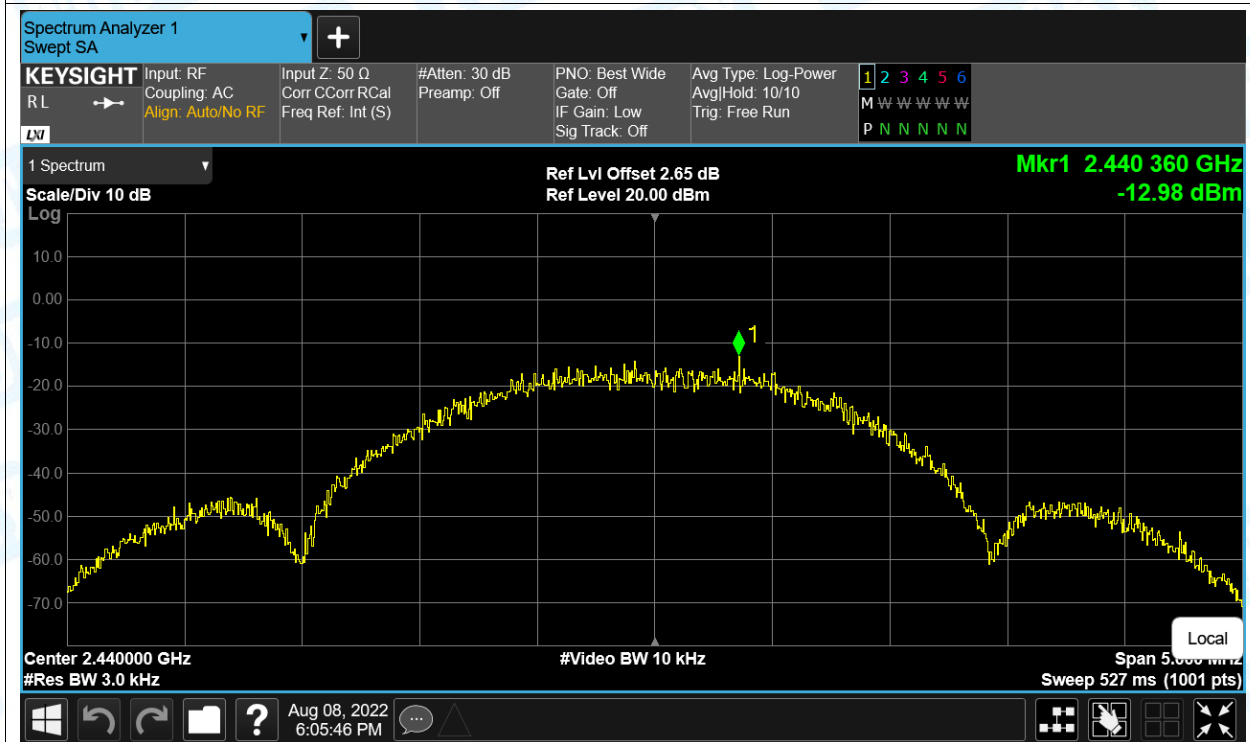
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	GFSK	2405	Ant1	-12.071	8	Pass
NVNT	GFSK	2440	Ant1	-12.975	8	Pass
NVNT	GFSK	2476	Ant1	-12.291	8	Pass

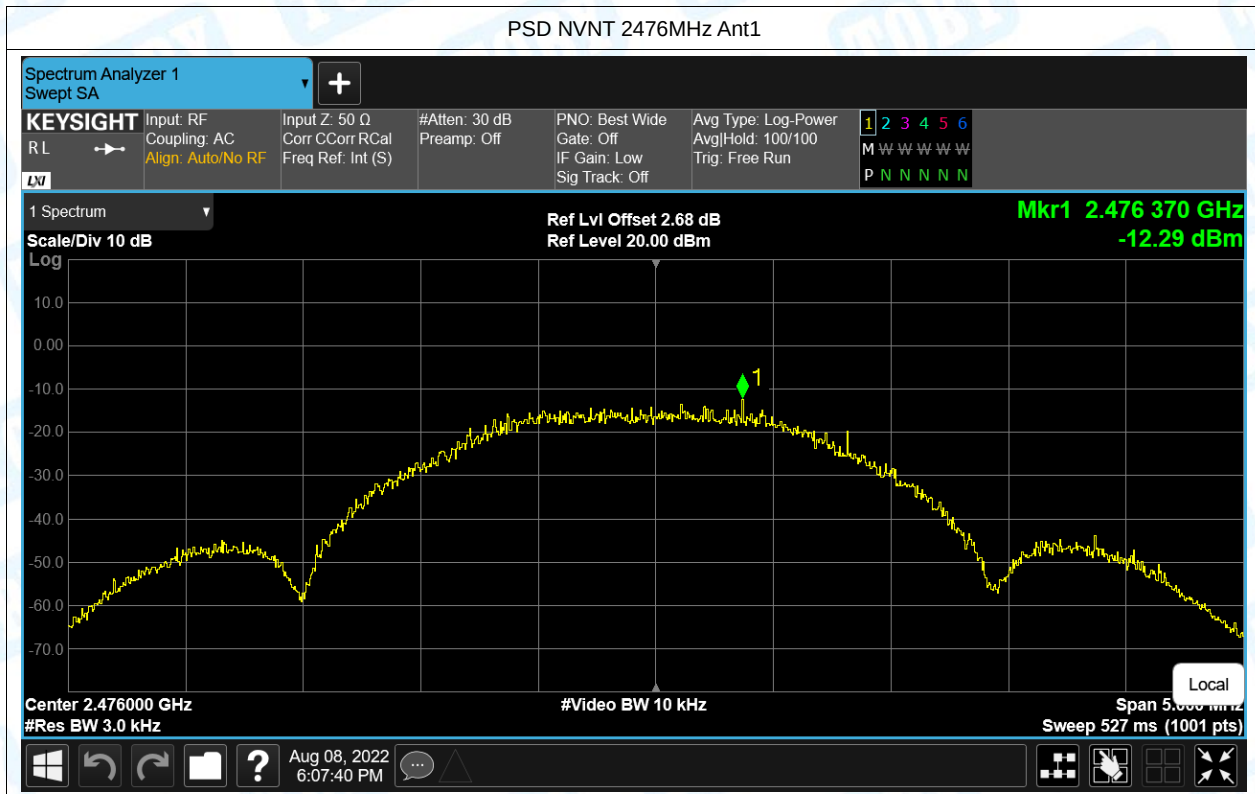
Test Graphs

PSD NVNT 2405MHz Ant1



PSD NVNT 2440MHz Ant1



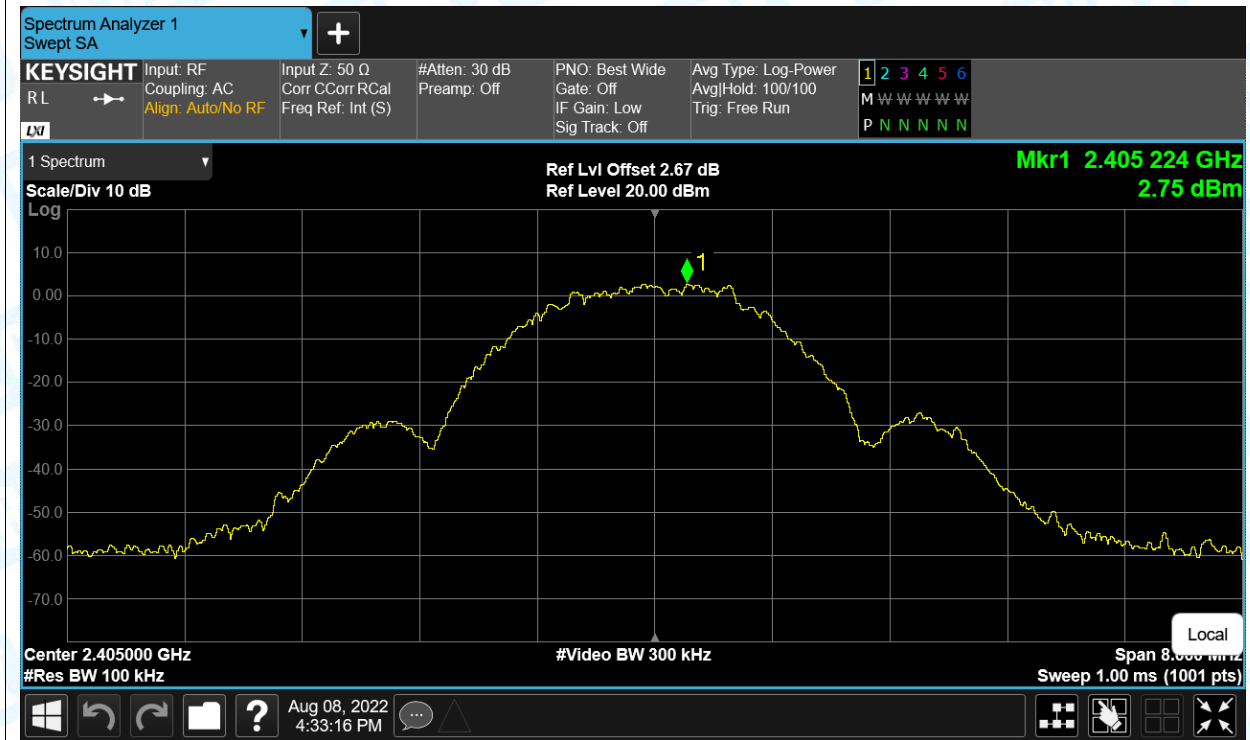


6.Band Edge

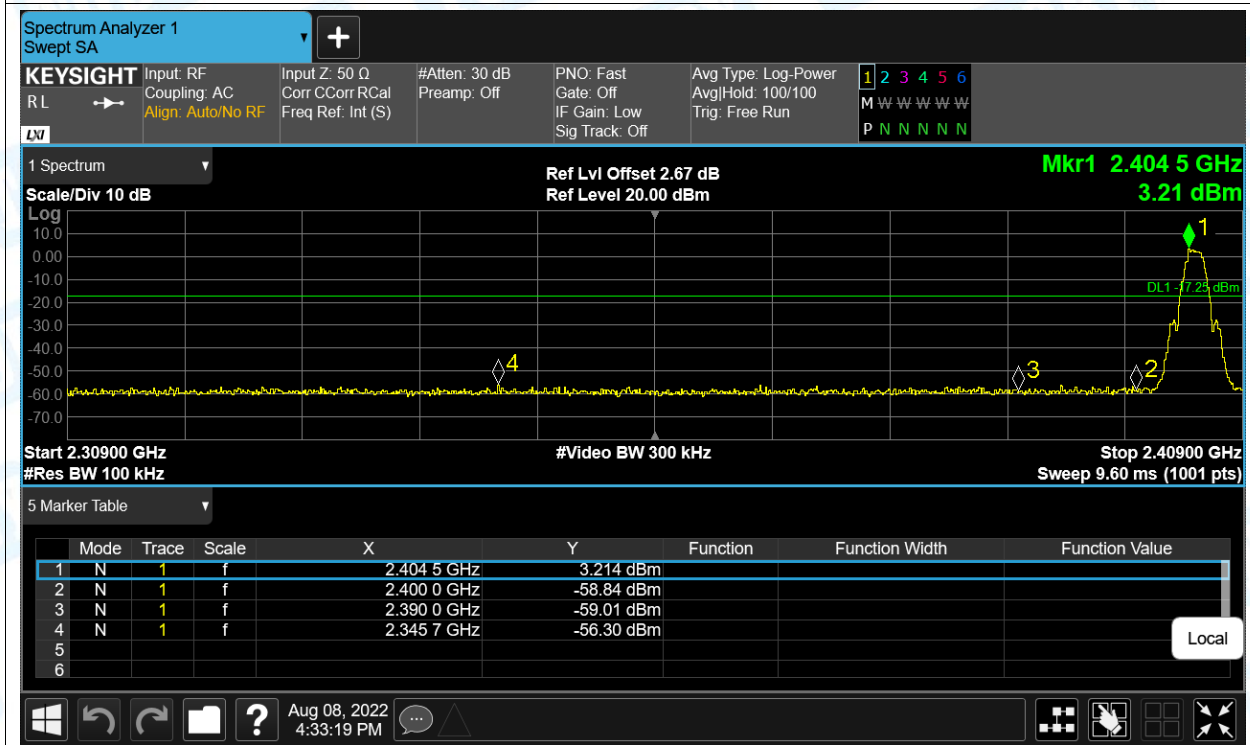
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2405	Ant1	-59.05	-20	Pass
NVNT	GFSK	2476	Ant1	-59.08	-20	Pass

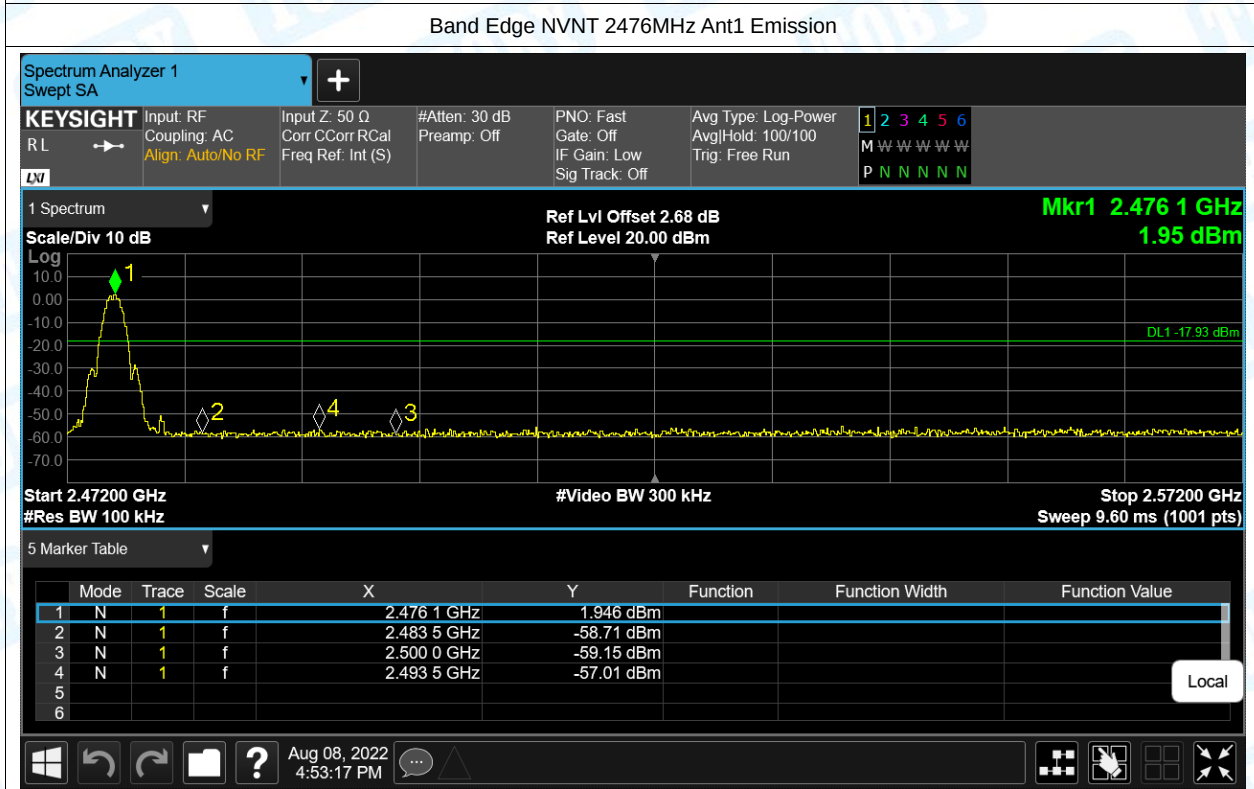
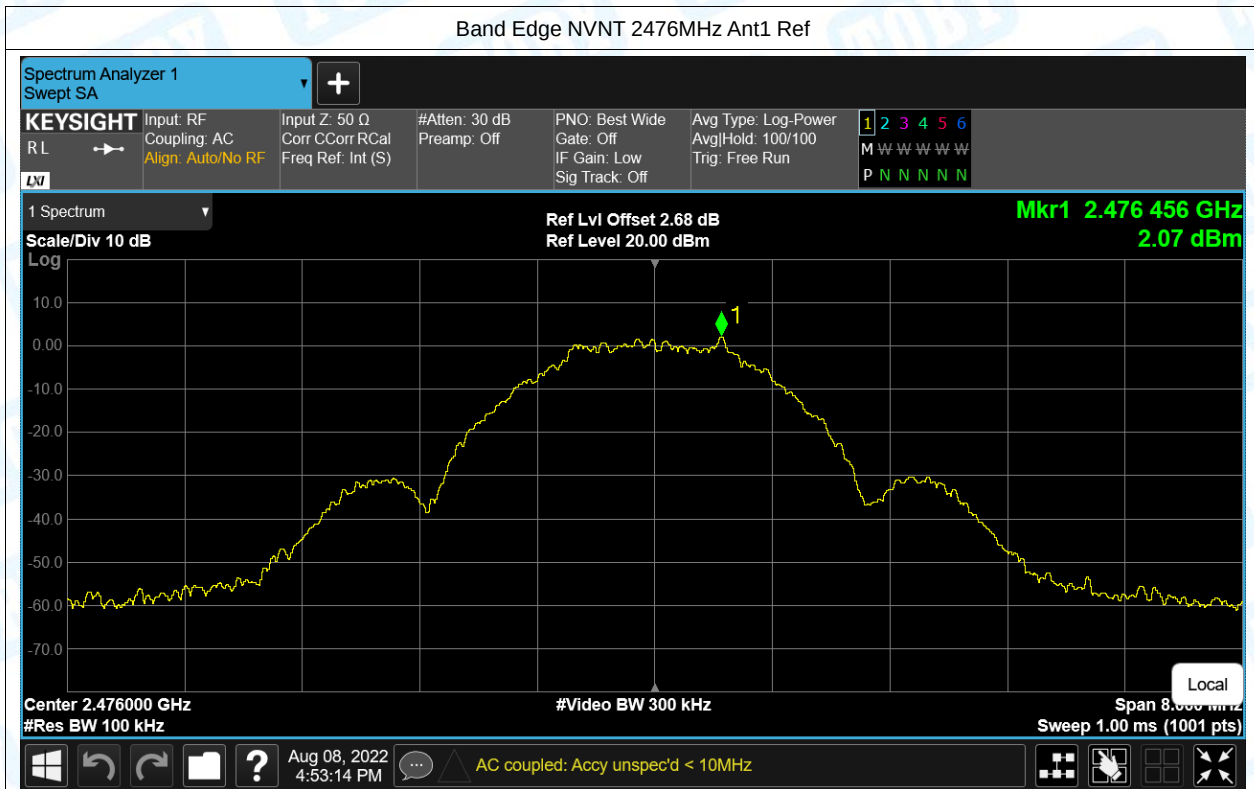
Test Graphs

Band Edge NVNT 2405MHz Ant1 Ref



Band Edge NVNT 2405MHz Ant1 Emission

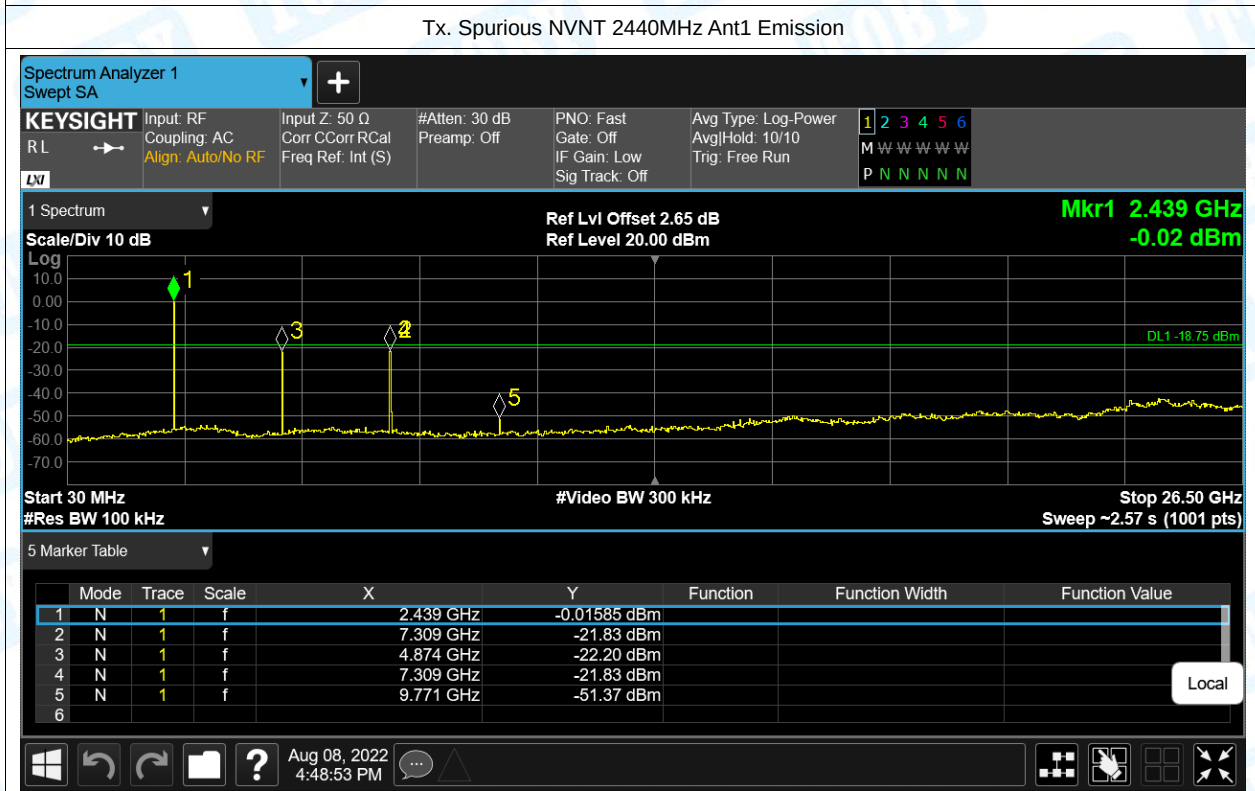
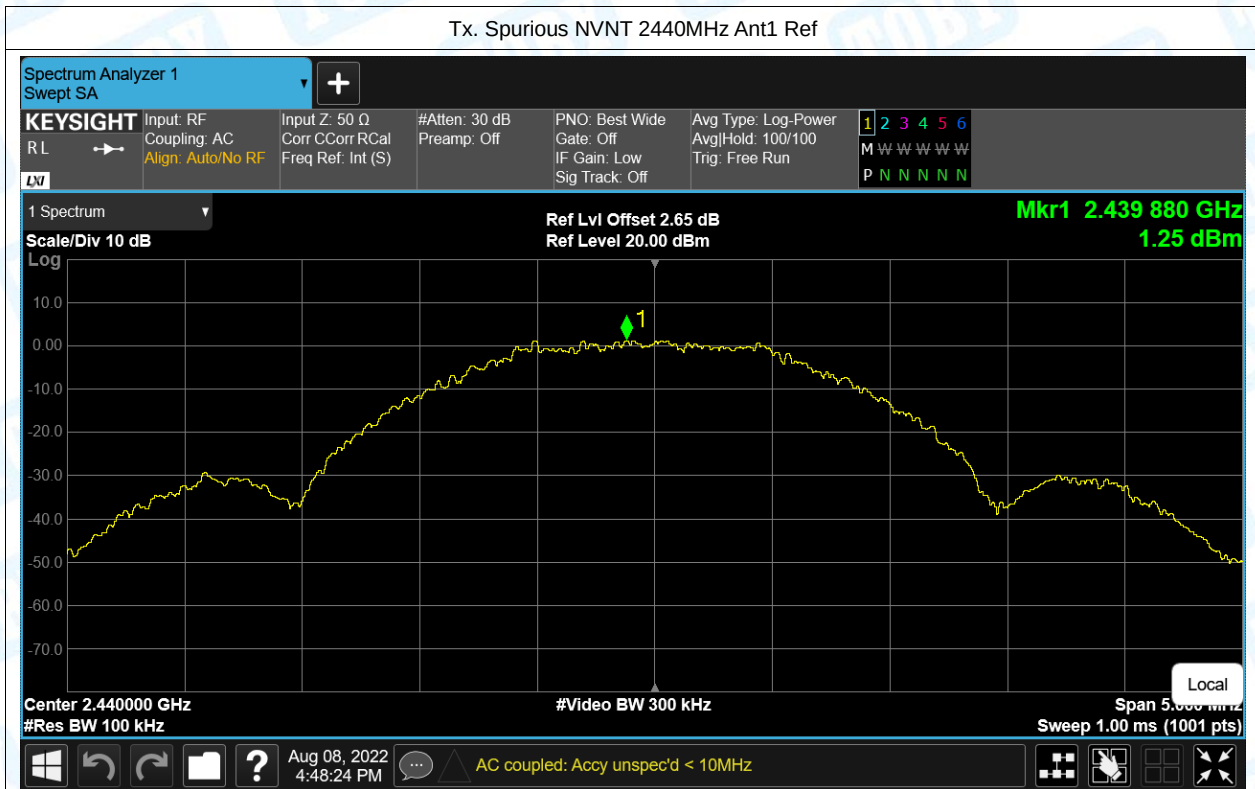


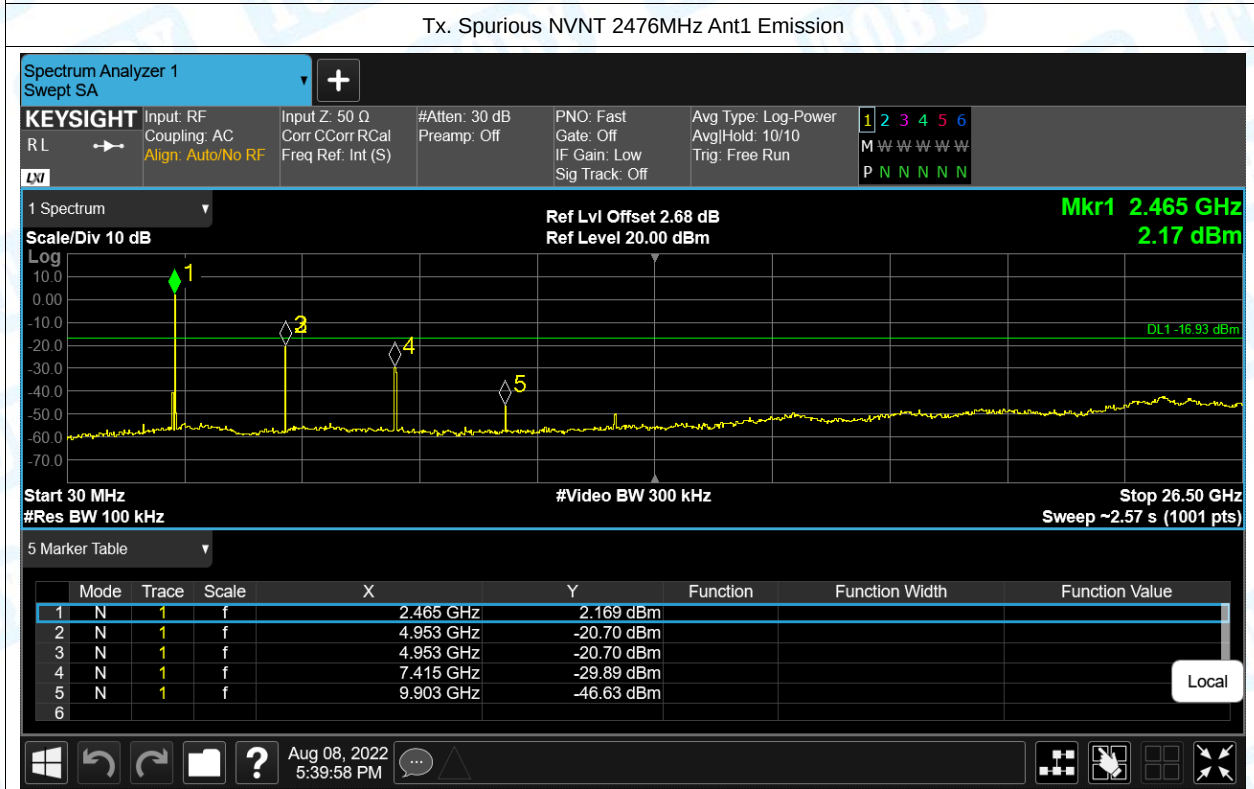
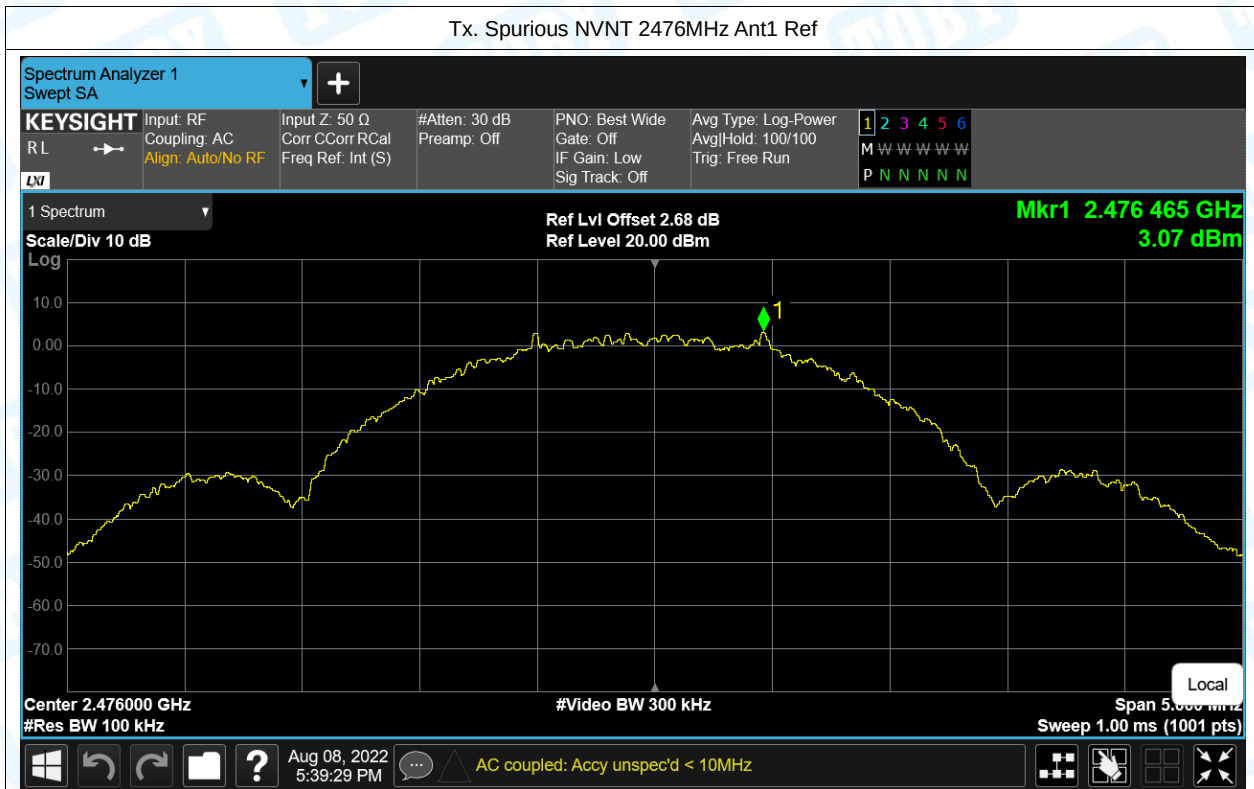


7.Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2405	Ant1	-24.26	-20	Pass
NVNT	GFSK	2440	Ant1	-23.08	-20	Pass
NVNT	GFSK	2476	Ant1	-23.77	-20	Pass







8.Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	GFSK	2405	Ant1	2310	-49.54	2	47.72	Peak	74	Pass
NVNT	GFSK	2405	Ant1	2310	-59.55	2	37.71	Average	54	Pass
NVNT	GFSK	2405	Ant1	2336.136	-45.41	2	51.85	Peak	74	Pass
NVNT	GFSK	2405	Ant1	2356.827	-59.03	2	38.23	Average	54	Pass
NVNT	GFSK	2405	Ant1	2390	-49.58	2	47.68	Peak	74	Pass
NVNT	GFSK	2405	Ant1	2390	-59.41	2	37.85	Average	54	Pass
NVNT	GFSK	2476	Ant1	2483.5	-49.44	2	47.82	Peak	74	Pass
NVNT	GFSK	2476	Ant1	2483.5	-59.19	2	38.07	Average	54	Pass
NVNT	GFSK	2476	Ant1	2499.944	-46.57	2	50.69	Peak	74	Pass
NVNT	GFSK	2476	Ant1	2499.72	-58.95	2	38.31	Average	54	Pass
NVNT	GFSK	2476	Ant1	2500	-48.71	2	48.55	Peak	74	Pass
NVNT	GFSK	2476	Ant1	2500	-58.97	2	38.29	Average	54	Pass

