

RF Test Data for Bluetooth LE (Conducted Measurements)

General Description of EUT	
Product Name:	Tablet
Test Model:	AT73K
Sample ID:	HC-C-202406-0140-01-01-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 3.8V
Test Engineer:	Jolin Lee
Note: For a more detailed features description, please refer to the report TBR-C-202406-0140-51 The report only show the worst case data.	

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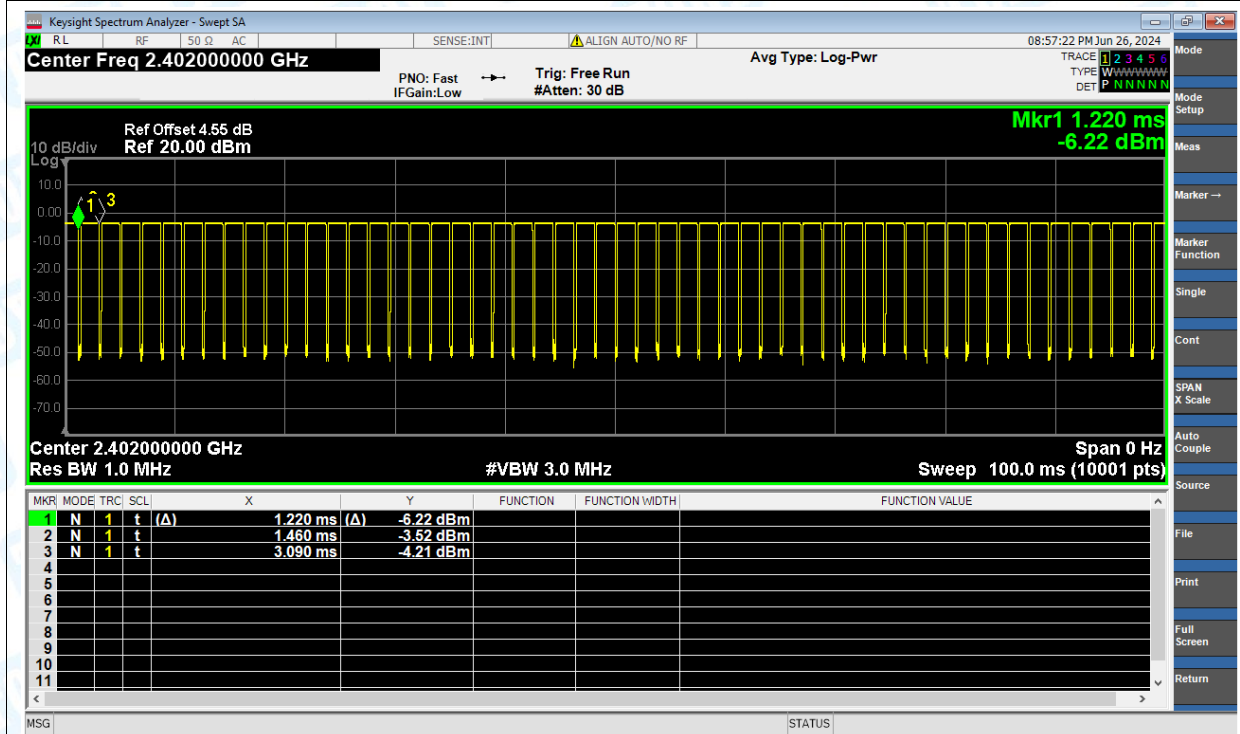
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1. Duty Cycle

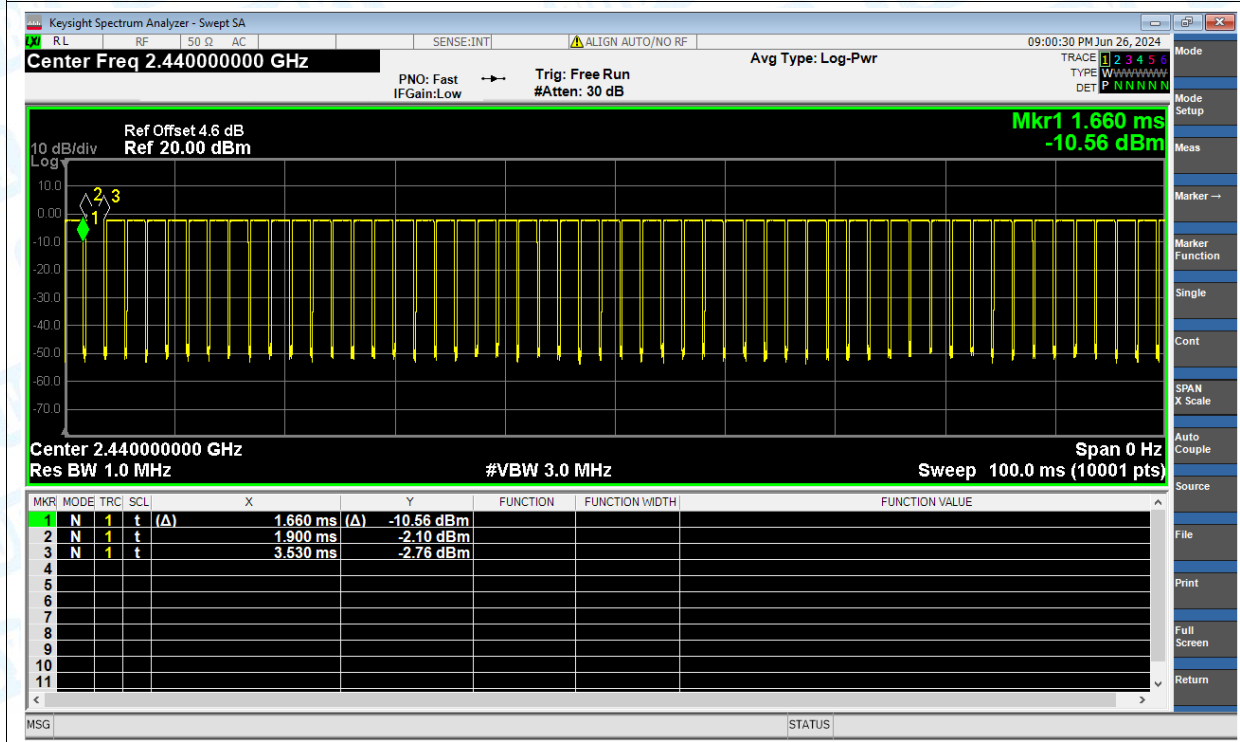
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
LVNT	BLE 1Mbps	2402	Ant1	87.17	0.6	0.61
LVNT	BLE 1Mbps	2440	Ant1	87.17	0.6	0.61
LVNT	BLE 1Mbps	2480	Ant1	87.23	0.59	0.61

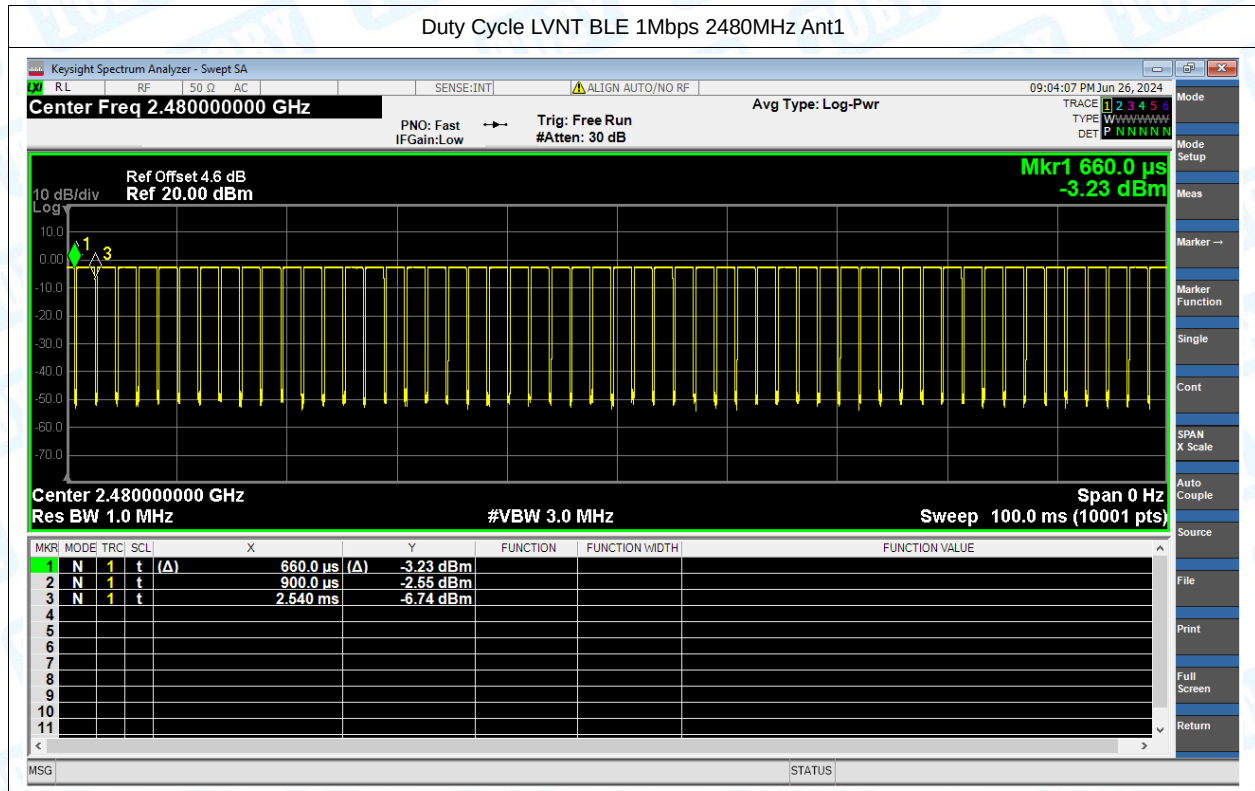
Test Graphs

Duty Cycle LVNT BLE 1Mbps 2402MHz Ant1



Duty Cycle LVNT BLE 1Mbps 2440MHz Ant1



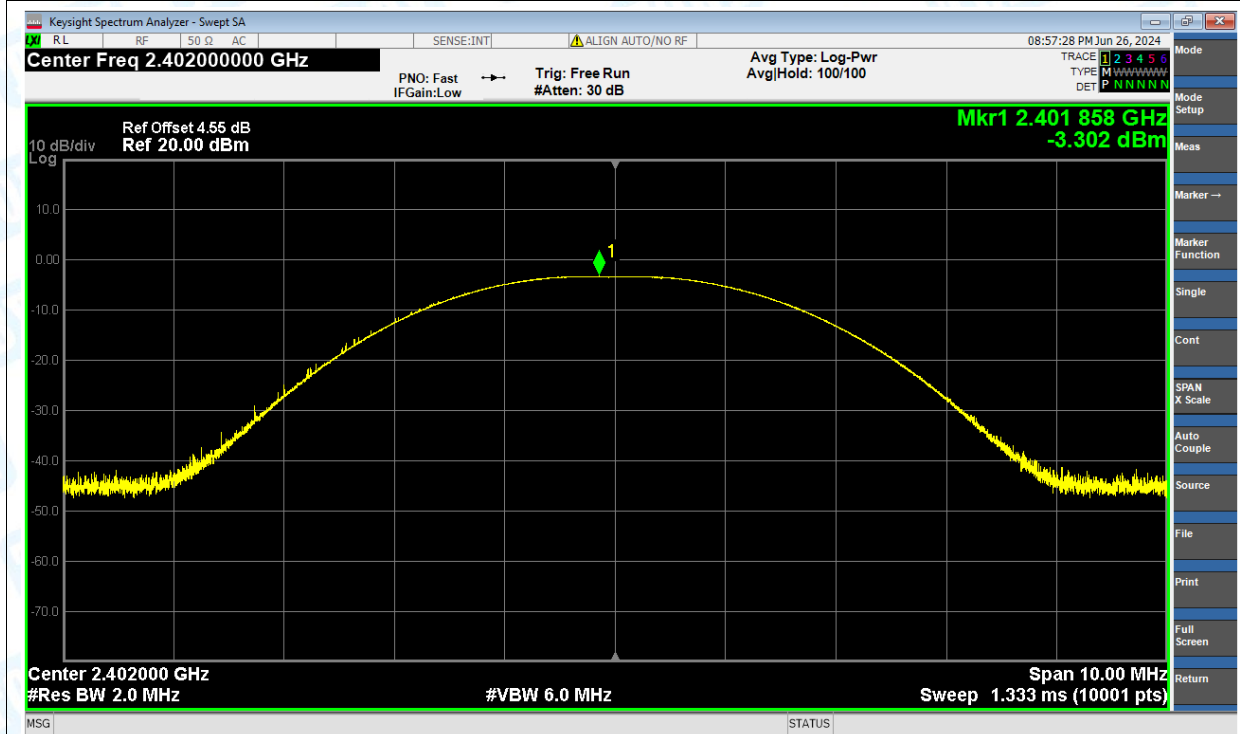


2. Maximum Conducted Output Power

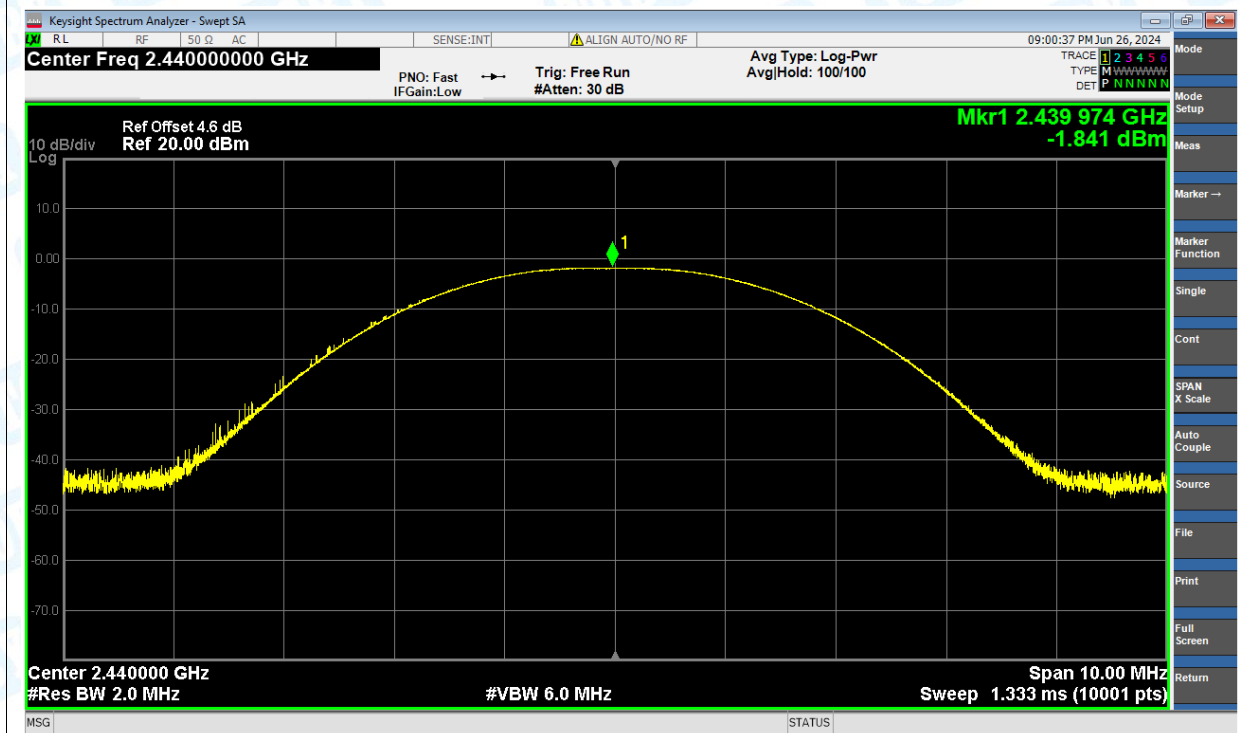
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
LVNT	BLE 1Mbps	2402	Ant1	-3.302	30	Pass
LVNT	BLE 1Mbps	2440	Ant1	-1.841	30	Pass
LVNT	BLE 1Mbps	2480	Ant1	-2.242	30	Pass

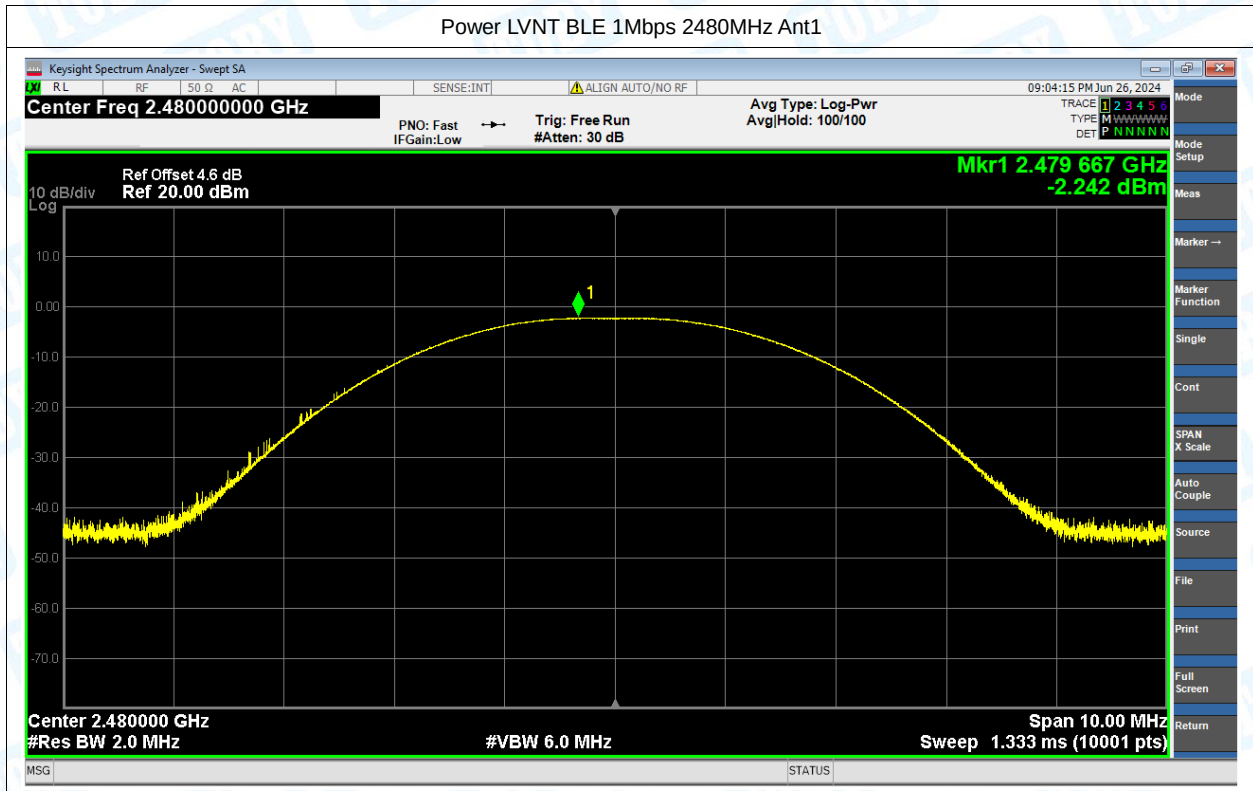
Test Graphs

Power LVNT BLE 1Mbps 2402MHz Ant1



Power LVNT BLE 1Mbps 2440MHz Ant1



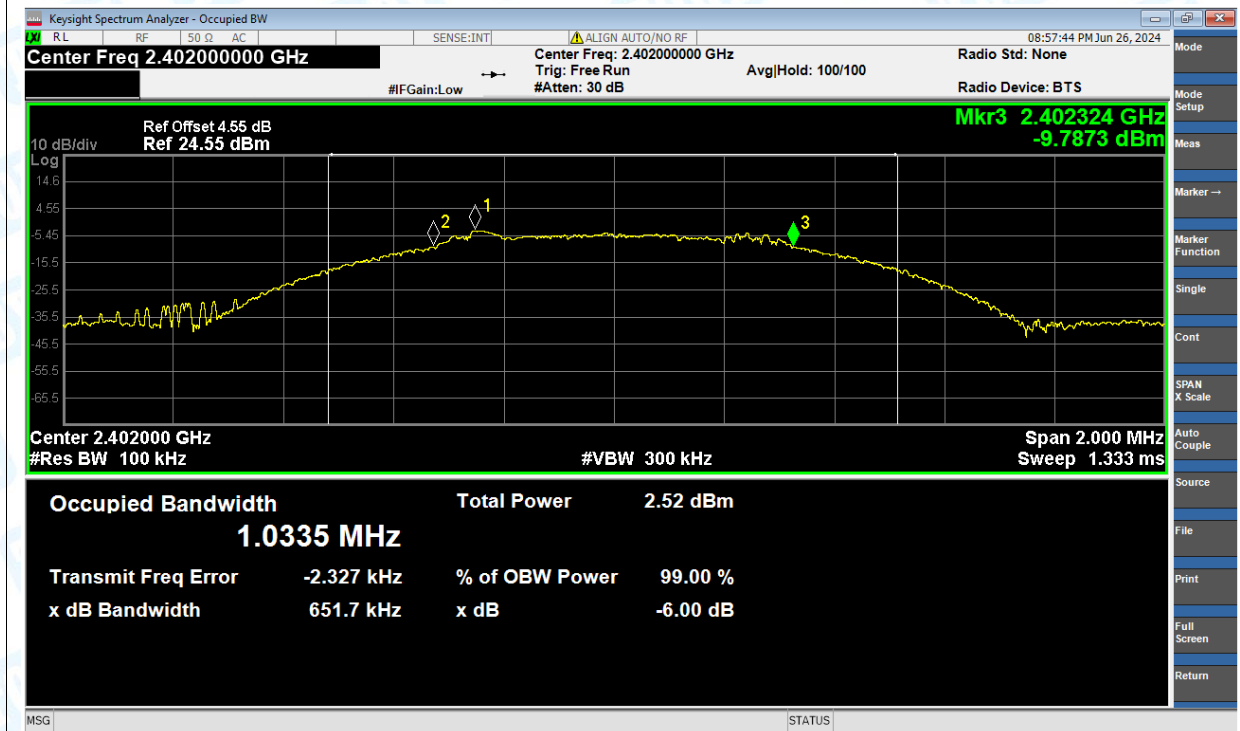


3. -6dB Bandwidth

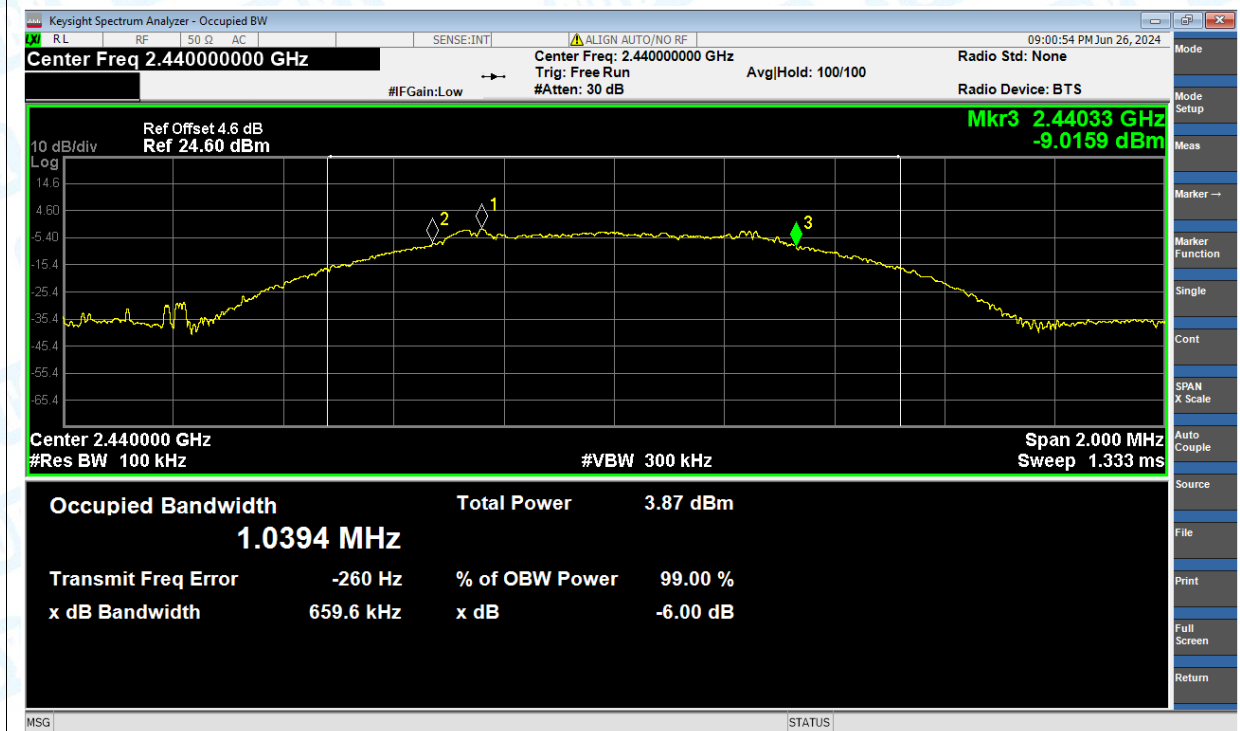
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
LVNT	BLE 1Mbps	2402	Ant1	0.65	0.5	Pass
LVNT	BLE 1Mbps	2440	Ant1	0.66	0.5	Pass
LVNT	BLE 1Mbps	2480	Ant1	0.66	0.5	Pass

Test Graphs

-6dB Bandwidth LVNT BLE 1Mbps 2402MHz Ant1



-6dB Bandwidth LVNT BLE 1Mbps 2440MHz Ant1



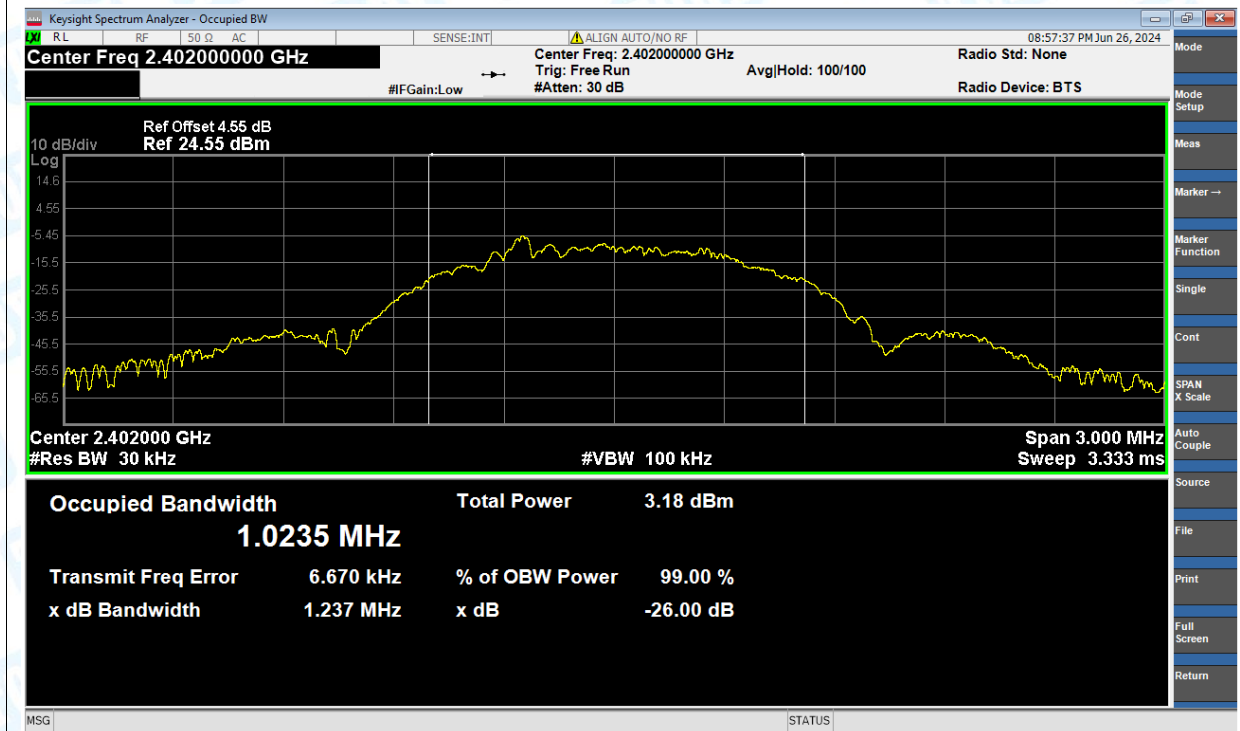


4. Occupied Channel Bandwidth

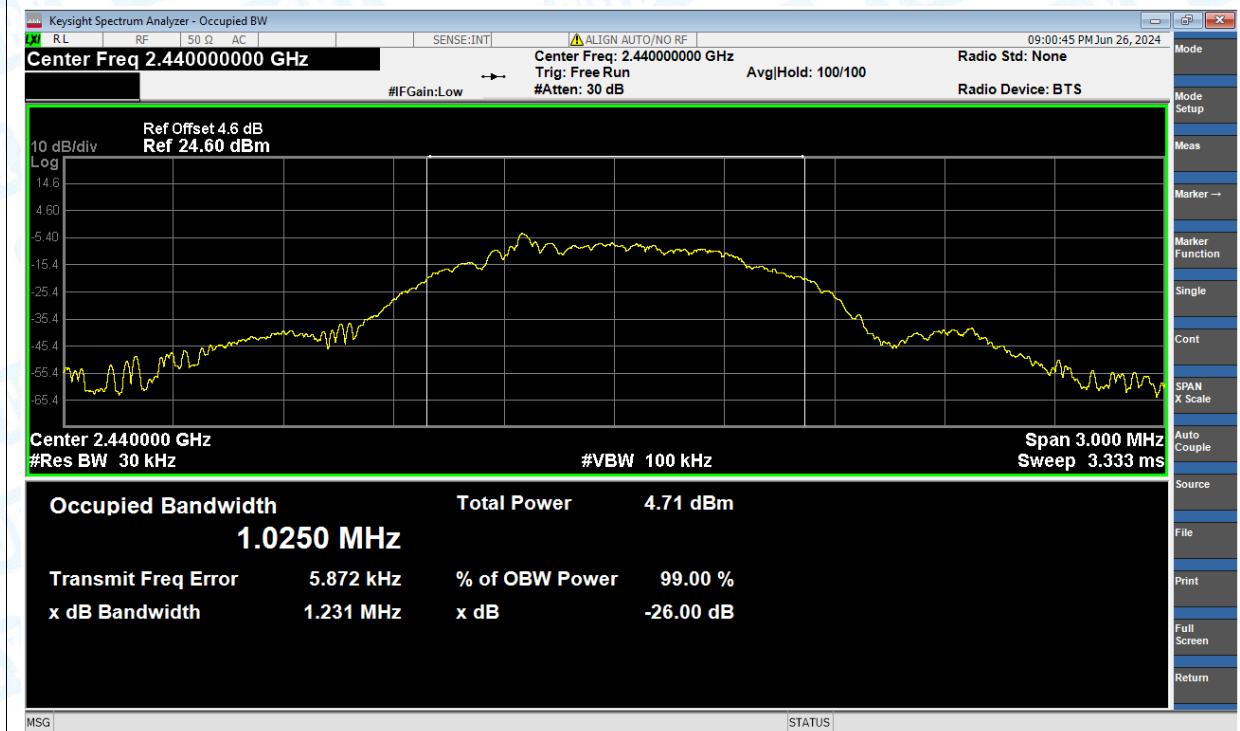
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
LVNT	BLE 1Mbps	2402	Ant1	1.024
LVNT	BLE 1Mbps	2440	Ant1	1.025
LVNT	BLE 1Mbps	2480	Ant1	1.026

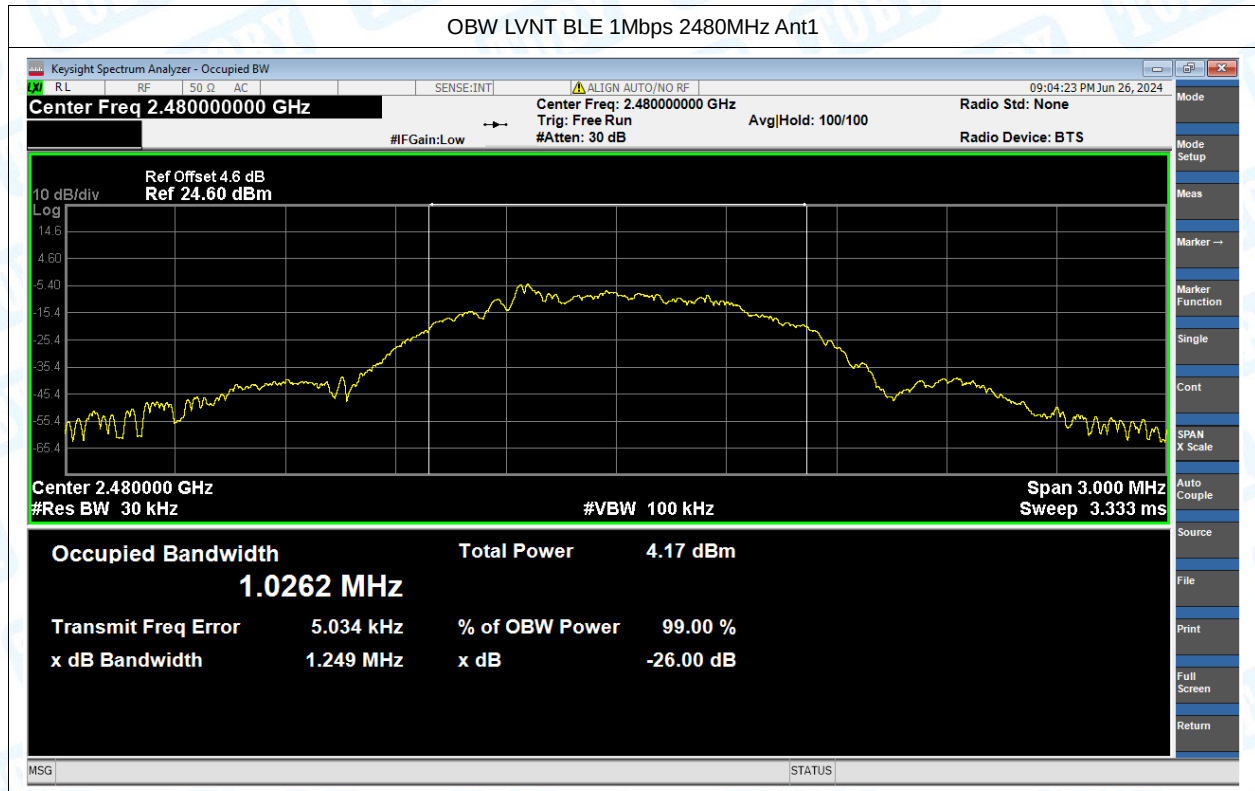
Test Graphs

OBW LVNT BLE 1Mbps 2402MHz Ant1



OBW LVNT BLE 1Mbps 2440MHz Ant1



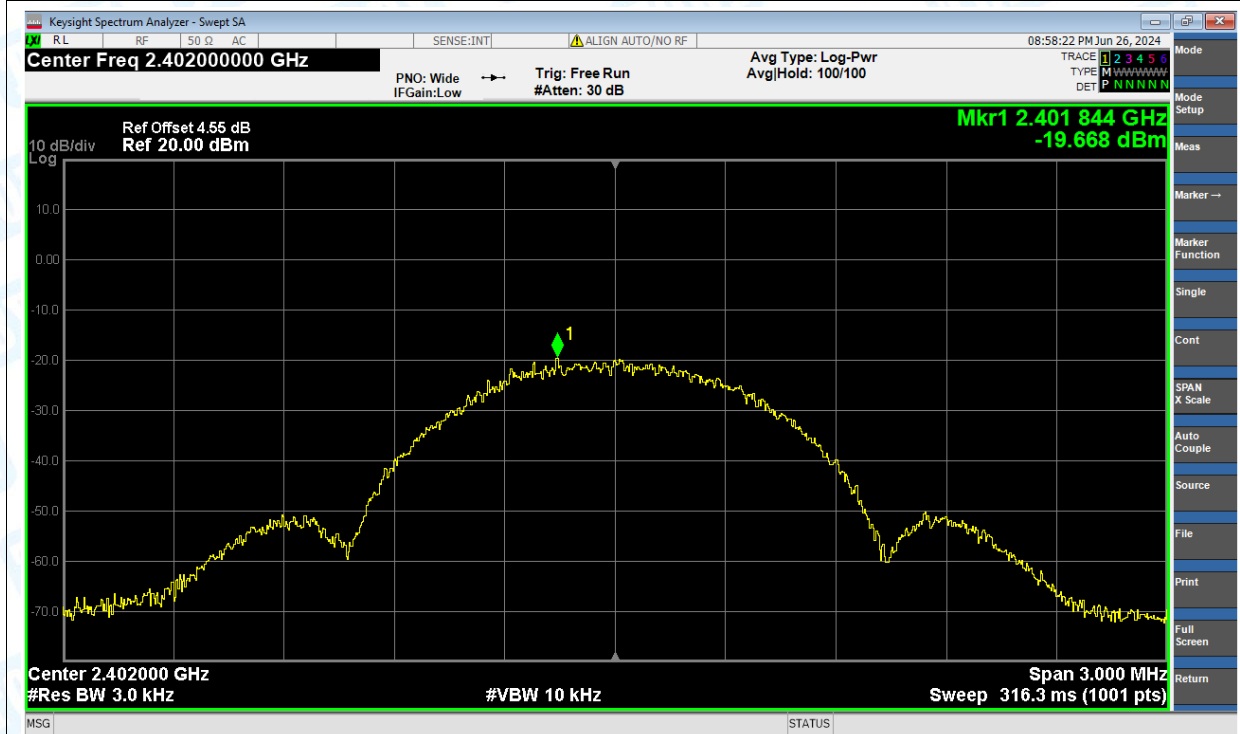


5. Maximum Power Spectral Density Level

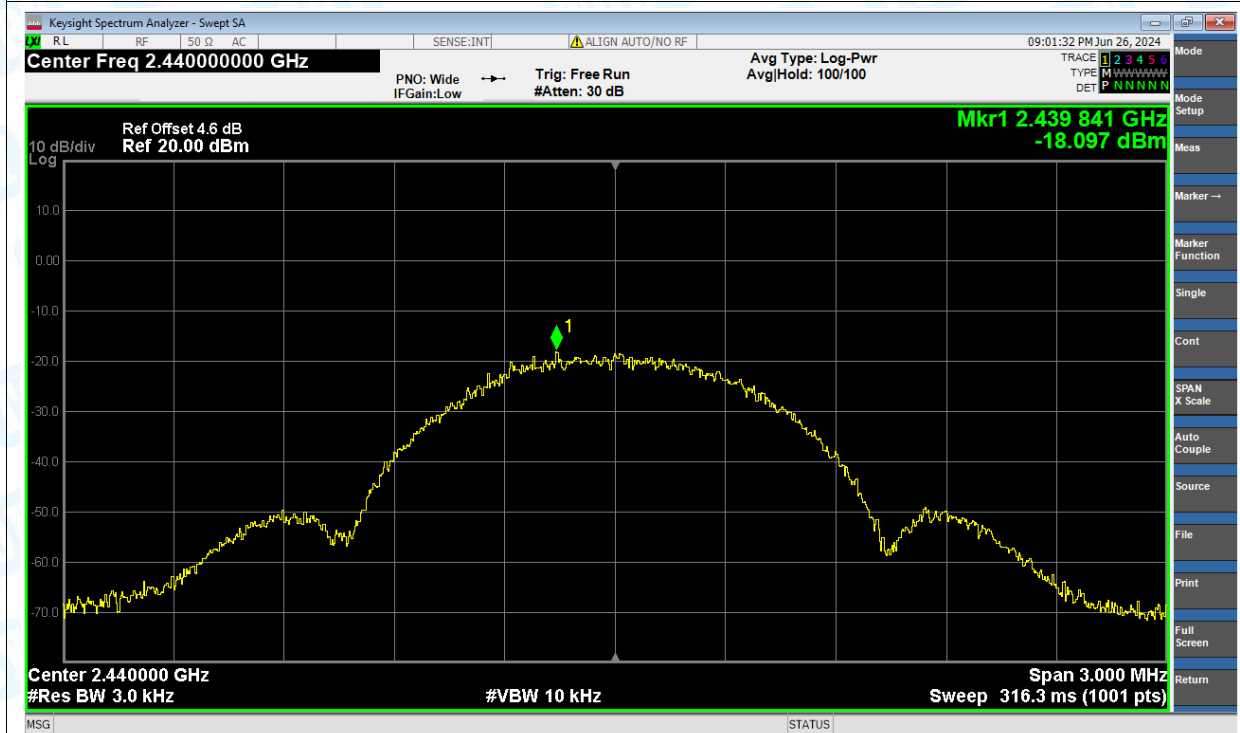
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
LVNT	BLE 1Mbps	2402	Ant1	-19.668	8	Pass
LVNT	BLE 1Mbps	2440	Ant1	-18.097	8	Pass
LVNT	BLE 1Mbps	2480	Ant1	-18.595	8	Pass

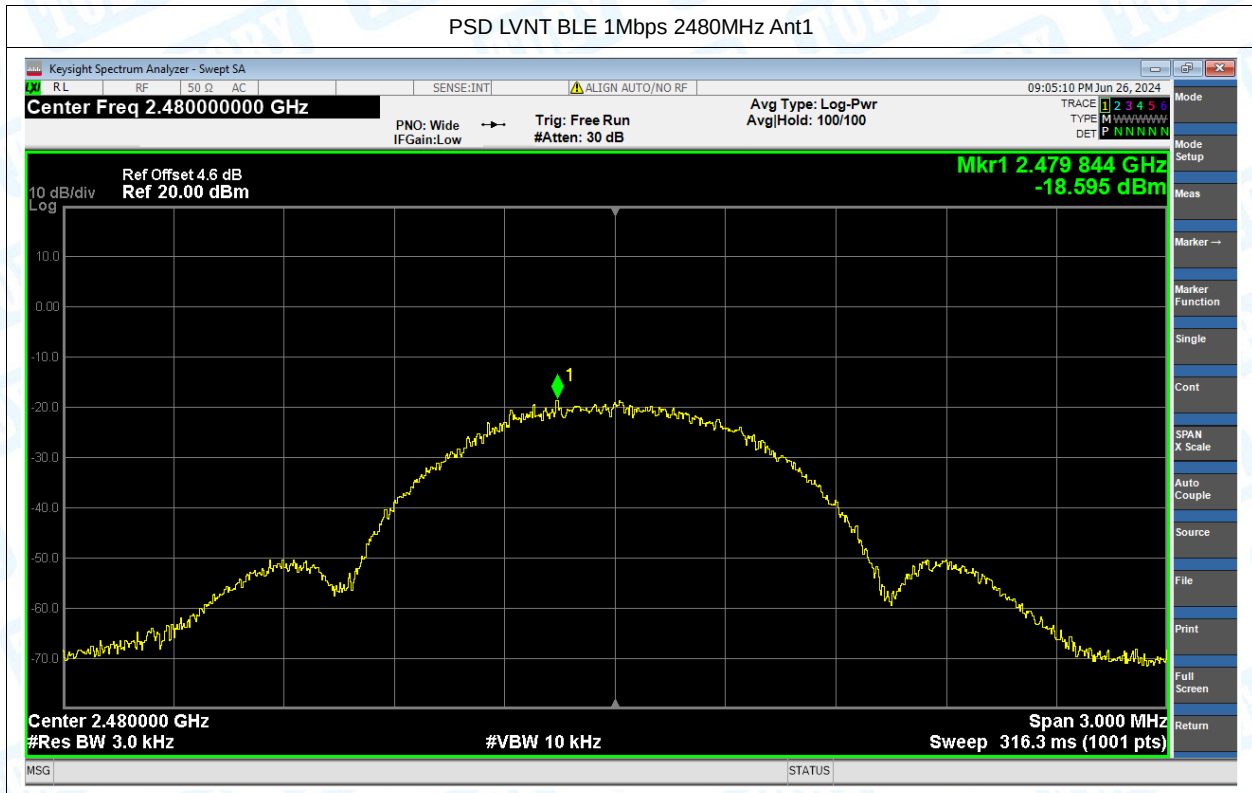
Test Graphs

PSD LVNT BLE 1Mbps 2402MHz Ant1



PSD LVNT BLE 1Mbps 2440MHz Ant1



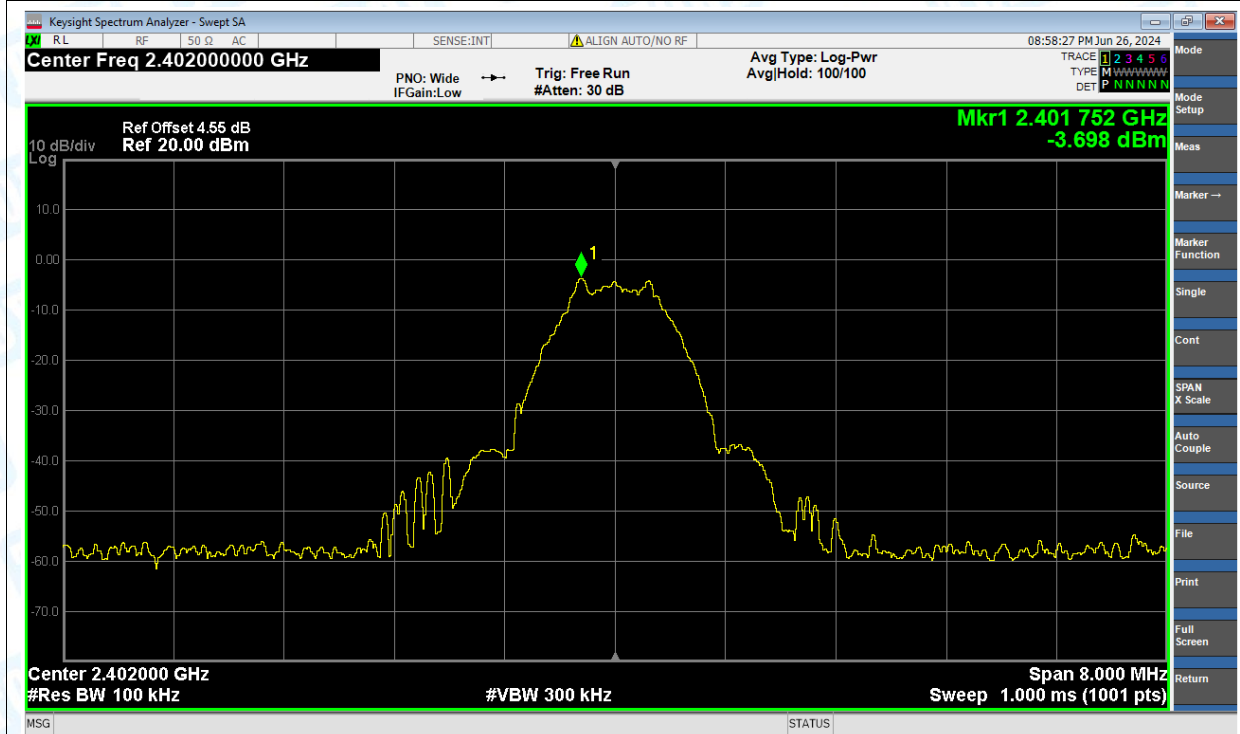


6. Band Edge

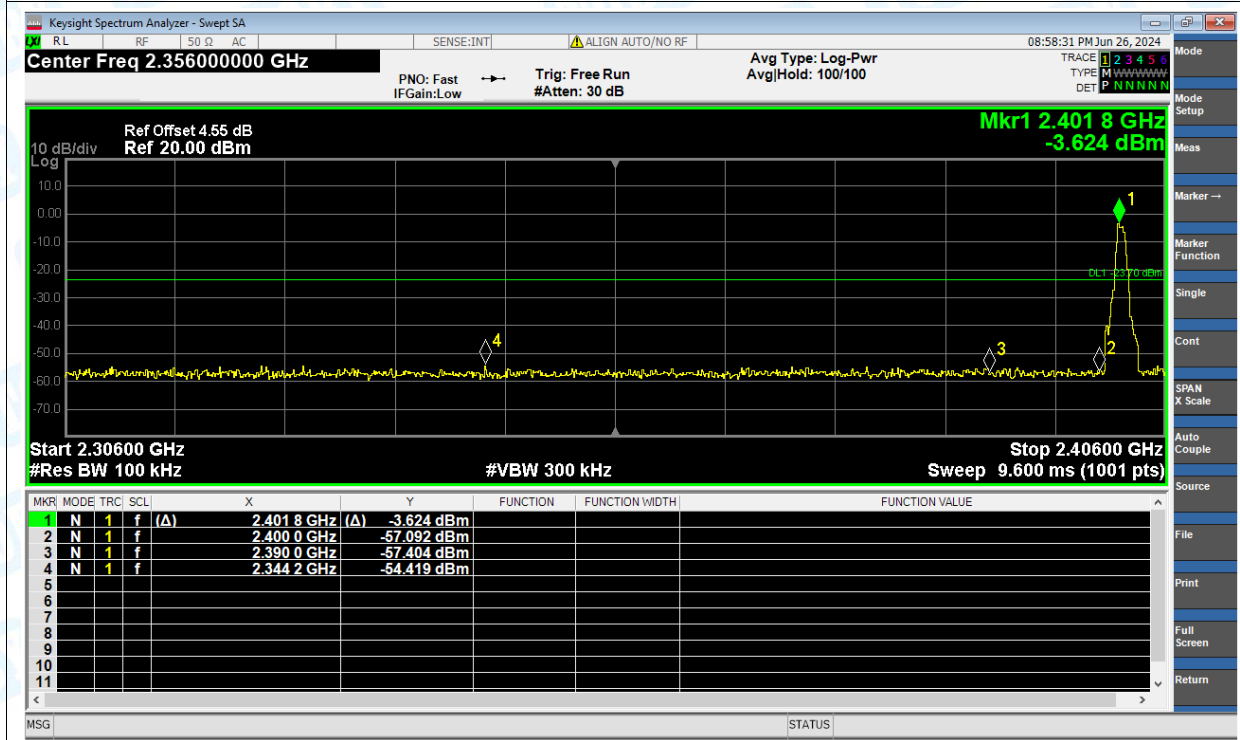
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
LVNT	BLE 1Mbps	2402	Ant1	-50.72	-20	Pass
LVNT	BLE 1Mbps	2480	Ant1	-52.06	-20	Pass

Test Graphs

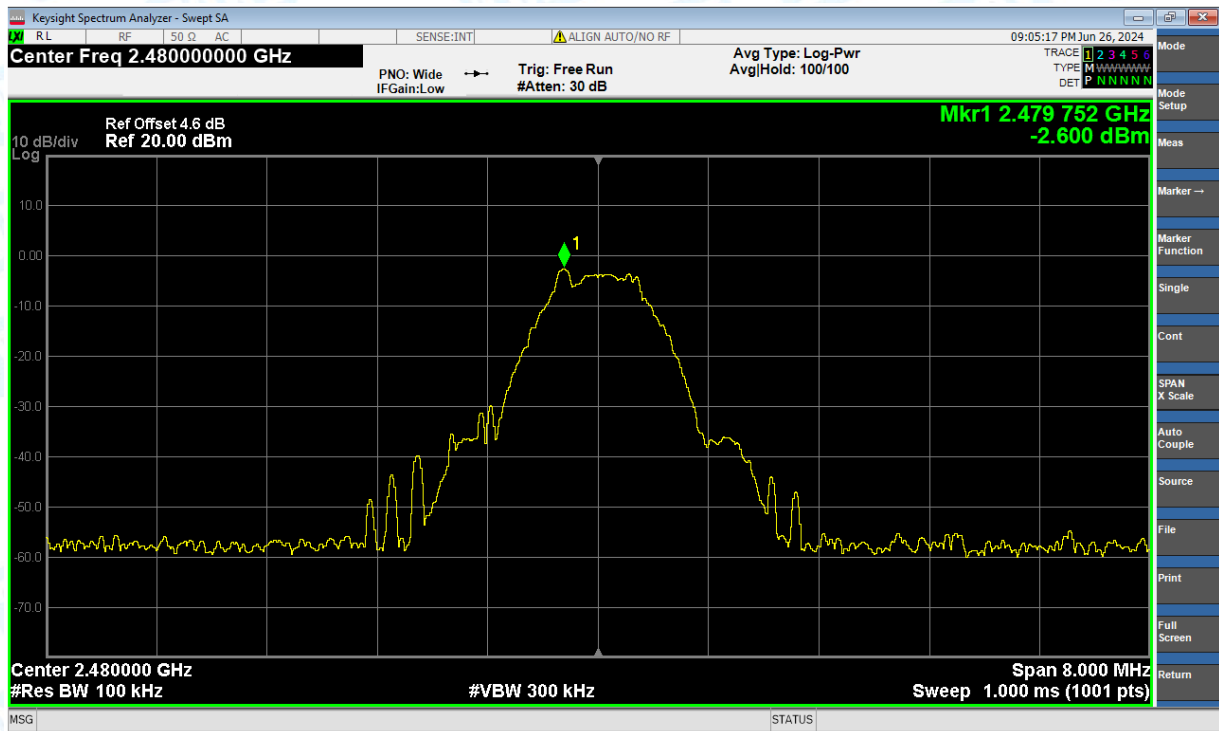
Band Edge LVNT BLE 1Mbps 2402MHz Ant1 Ref



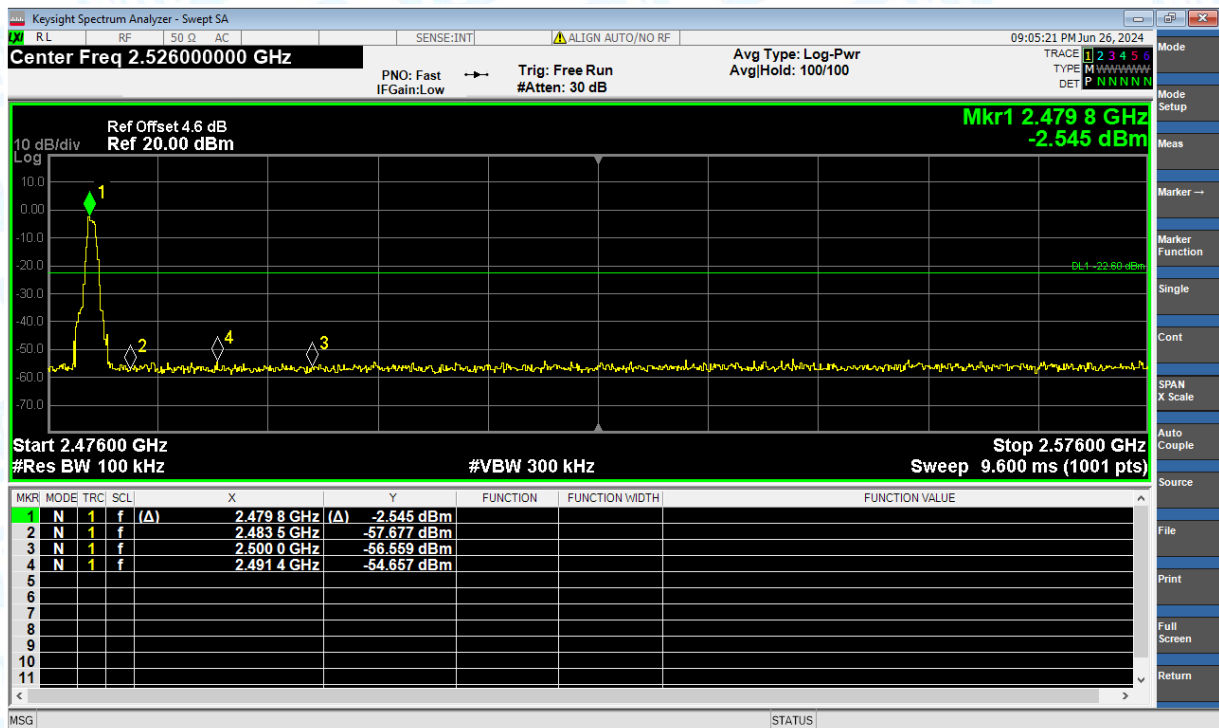
Band Edge LVNT BLE 1Mbps 2402MHz Ant1 Emission



Band Edge LVNT BLE 1Mbps 2480MHz Ant1 Ref



Band Edge LVNT BLE 1Mbps 2480MHz Ant1 Emission

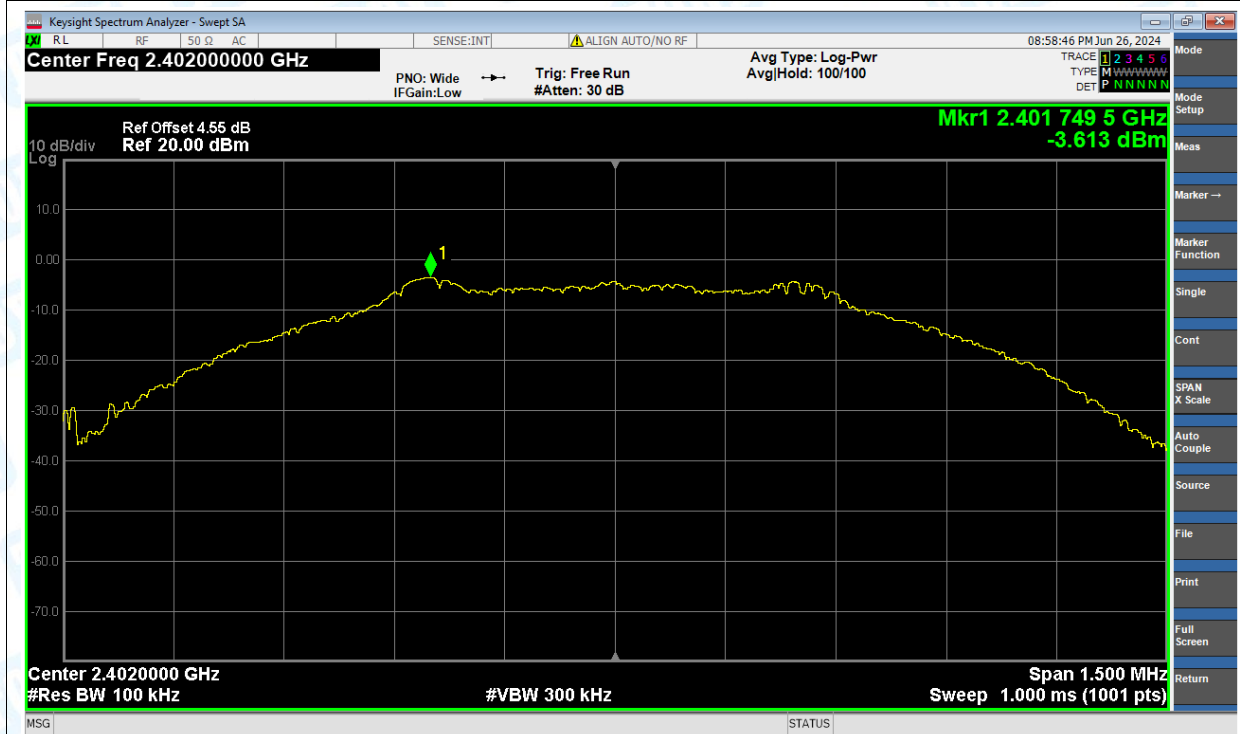


7. Conducted RF Spurious Emission

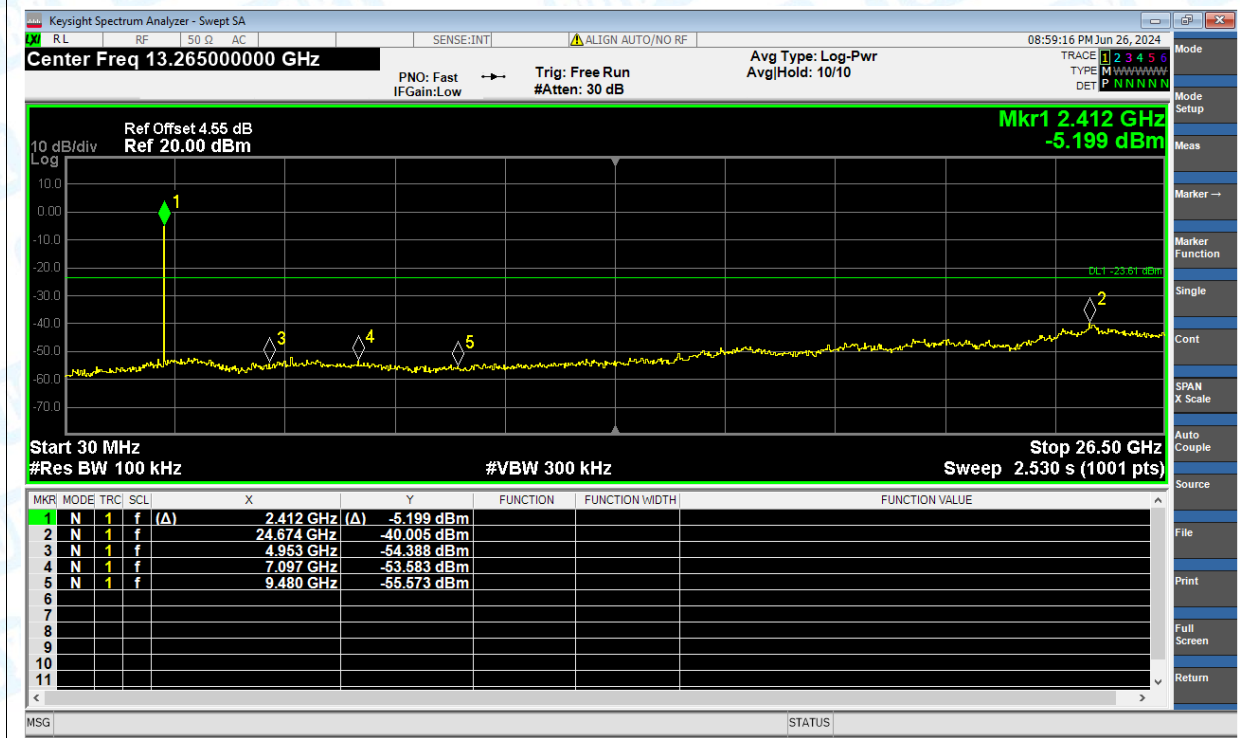
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
LVNT	BLE 1Mbps	2402	Ant1	-36.40	-20	Pass
LVNT	BLE 1Mbps	2440	Ant1	-37.88	-20	Pass
LVNT	BLE 1Mbps	2480	Ant1	-36.43	-20	Pass

Test Graphs

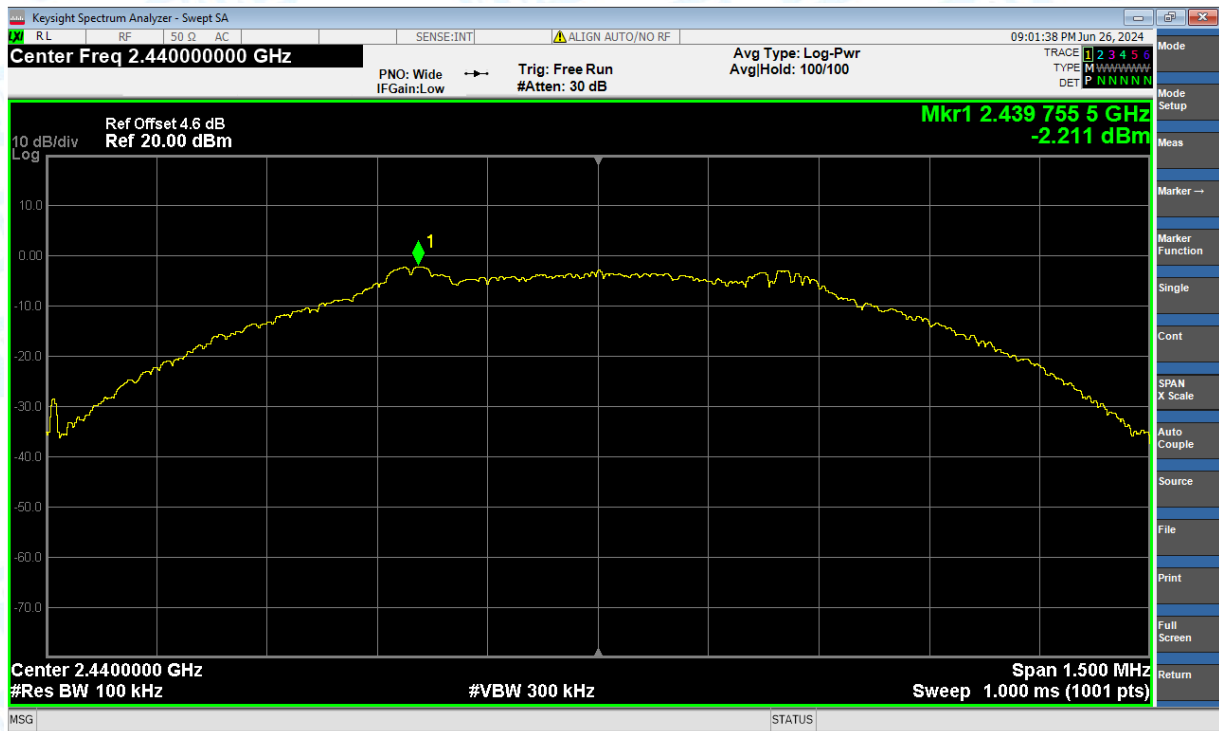
Tx. Spurious LVNT BLE 1Mbps 2402MHz Ant1 Ref



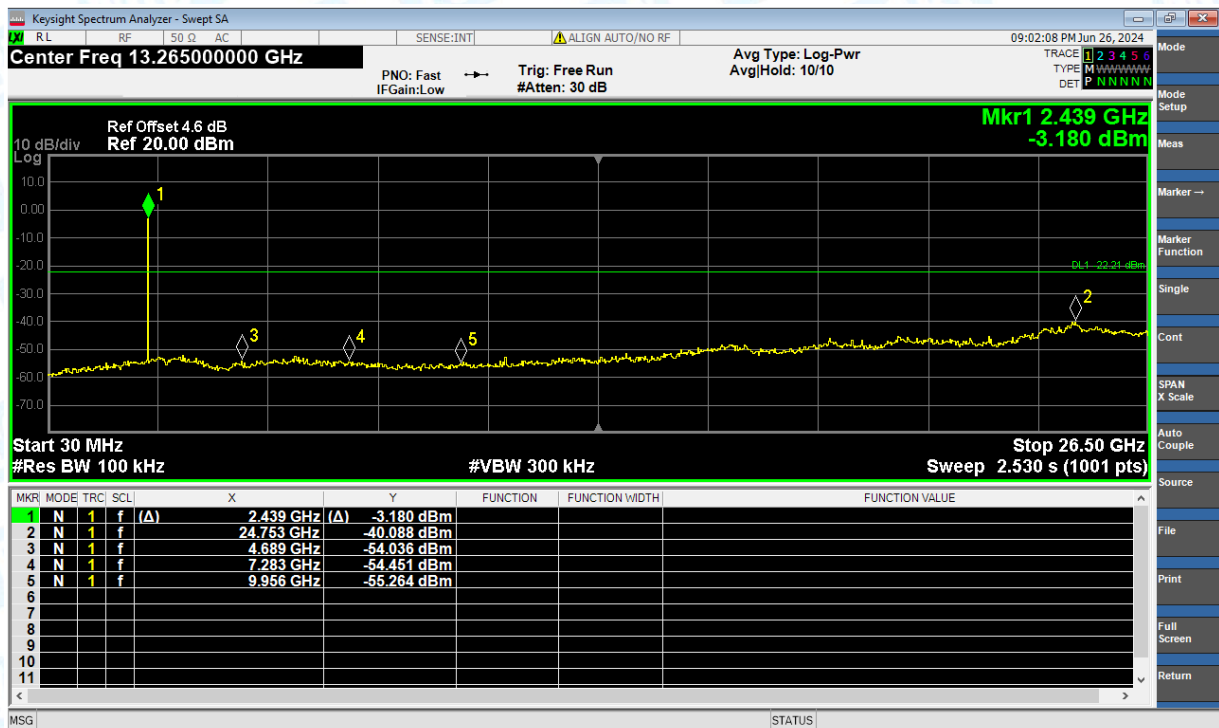
Tx. Spurious LVNT BLE 1Mbps 2402MHz Ant1 Emission



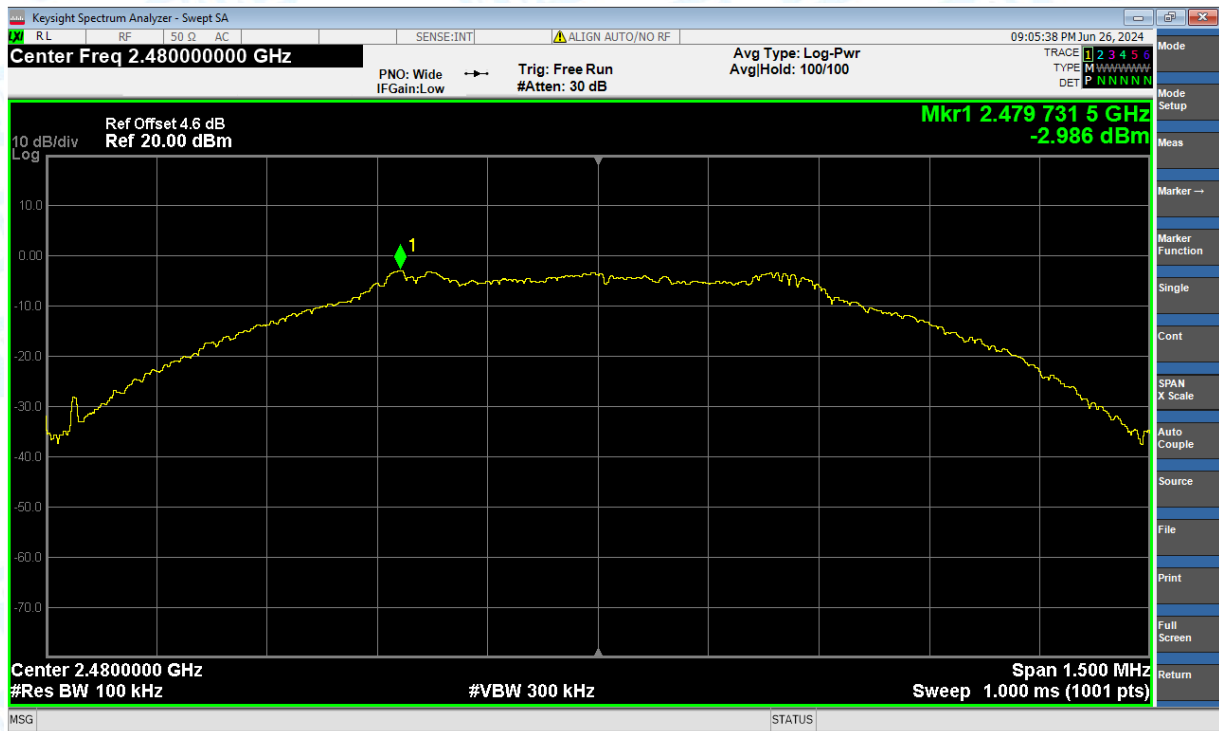
Tx. Spurious LVNT BLE 1Mbps 2440MHz Ant1 Ref



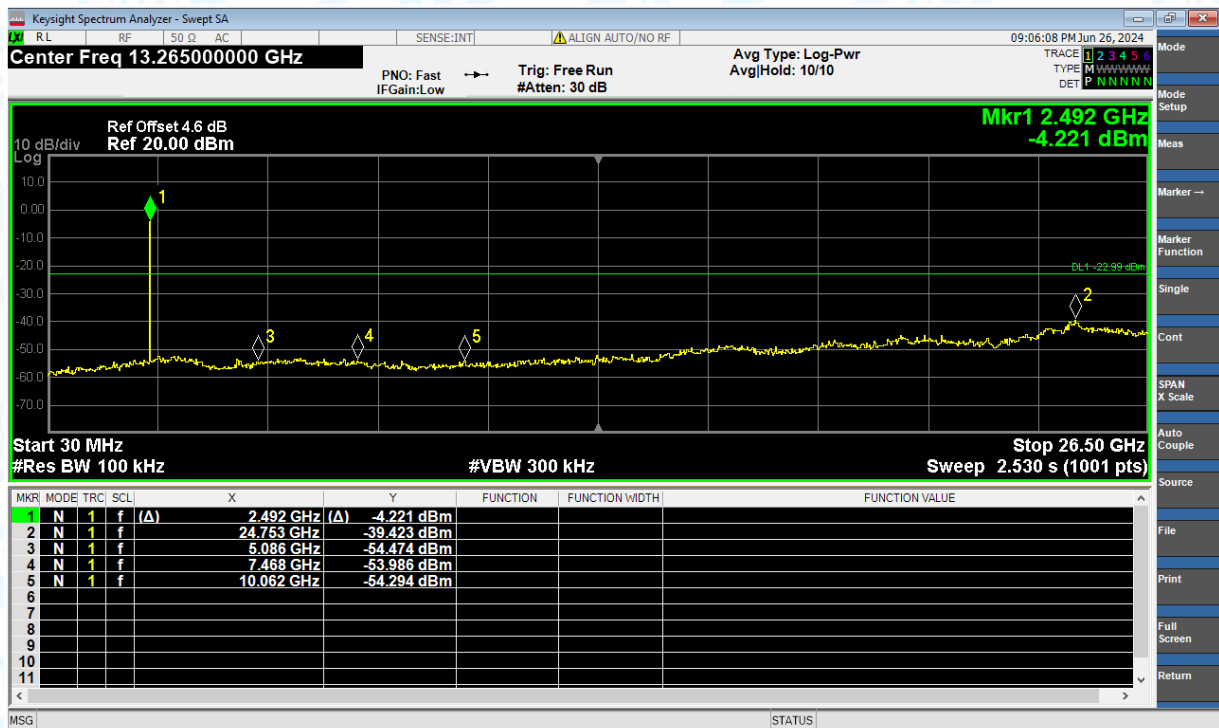
Tx. Spurious LVNT BLE 1Mbps 2440MHz Ant1 Emission



Tx. Spurious LVNT BLE 1Mbps 2480MHz Ant1 Ref



Tx. Spurious LVNT BLE 1Mbps 2480MHz Ant1 Emission

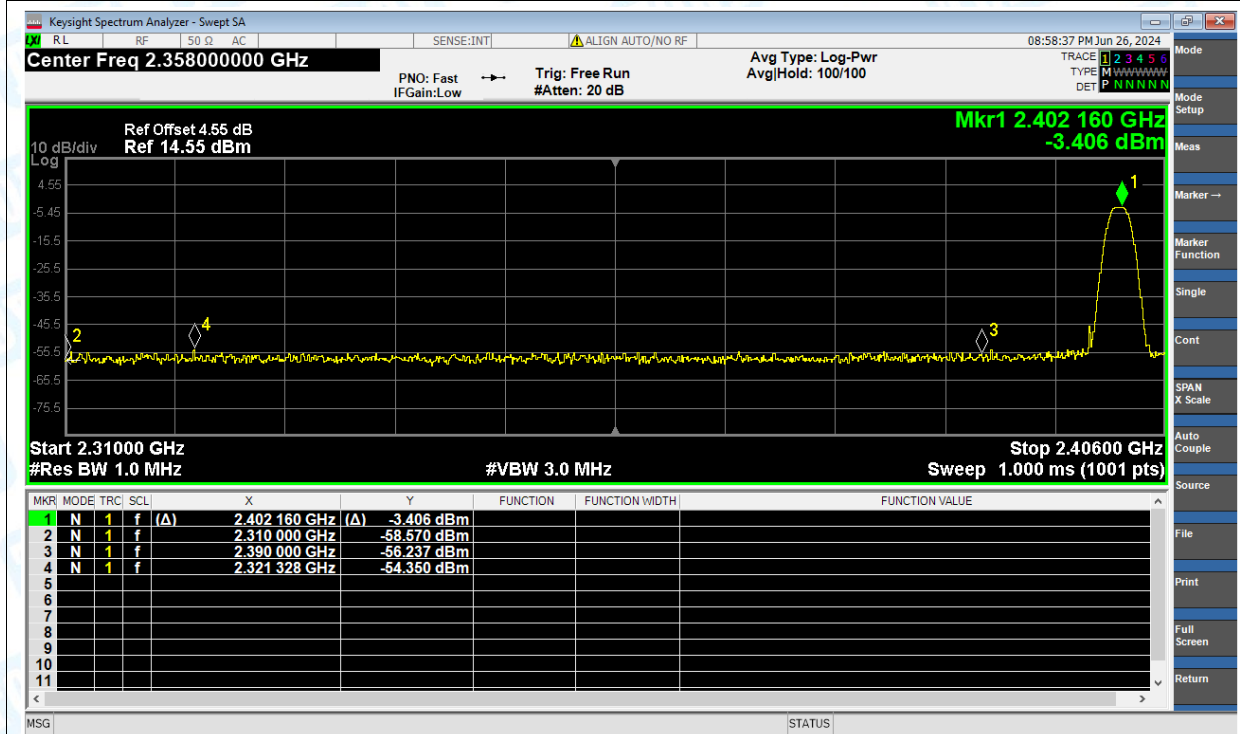


8. Restrict Band

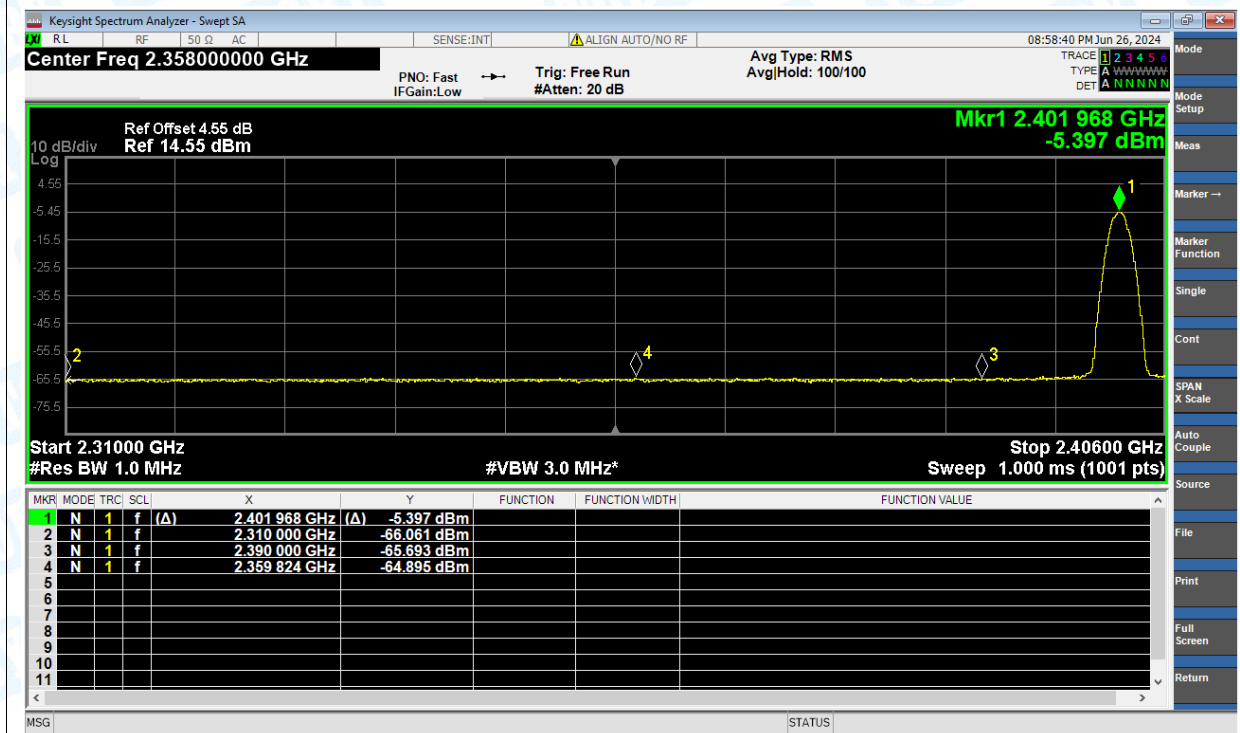
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
LVNT	BLE 1Mbps	2402	Ant1	2310	-58.57	2	-	38.69	Peak	74	Pass
LVNT	BLE 1Mbps	2402	Ant1	2310	-66.06	2	0.6	31.8	Average	54	Pass
LVNT	BLE 1Mbps	2402	Ant1	2321.328	-54.35	2	-	42.91	Peak	74	Pass
LVNT	BLE 1Mbps	2402	Ant1	2359.824	-64.89	2	0.6	32.97	Average	54	Pass
LVNT	BLE 1Mbps	2402	Ant1	2390	-56.24	2	-	41.02	Peak	74	Pass
LVNT	BLE 1Mbps	2402	Ant1	2390	-65.69	2	0.6	32.17	Average	54	Pass
LVNT	BLE 1Mbps	2480	Ant1	2483.5	-53.83	2	-	43.43	Peak	74	Pass
LVNT	BLE 1Mbps	2480	Ant1	2483.5	-64.61	2	0.59	33.24	Average	54	Pass
LVNT	BLE 1Mbps	2480	Ant1	2484.328	-53.28	2	-	43.98	Peak	74	Pass
LVNT	BLE 1Mbps	2480	Ant1	2483.656	-63.45	2	0.59	34.4	Average	54	Pass
LVNT	BLE 1Mbps	2480	Ant1	2500	-57.42	2	-	39.84	Peak	74	Pass
LVNT	BLE 1Mbps	2480	Ant1	2500	-65.41	2	0.59	32.44	Average	54	Pass

Test Graphs

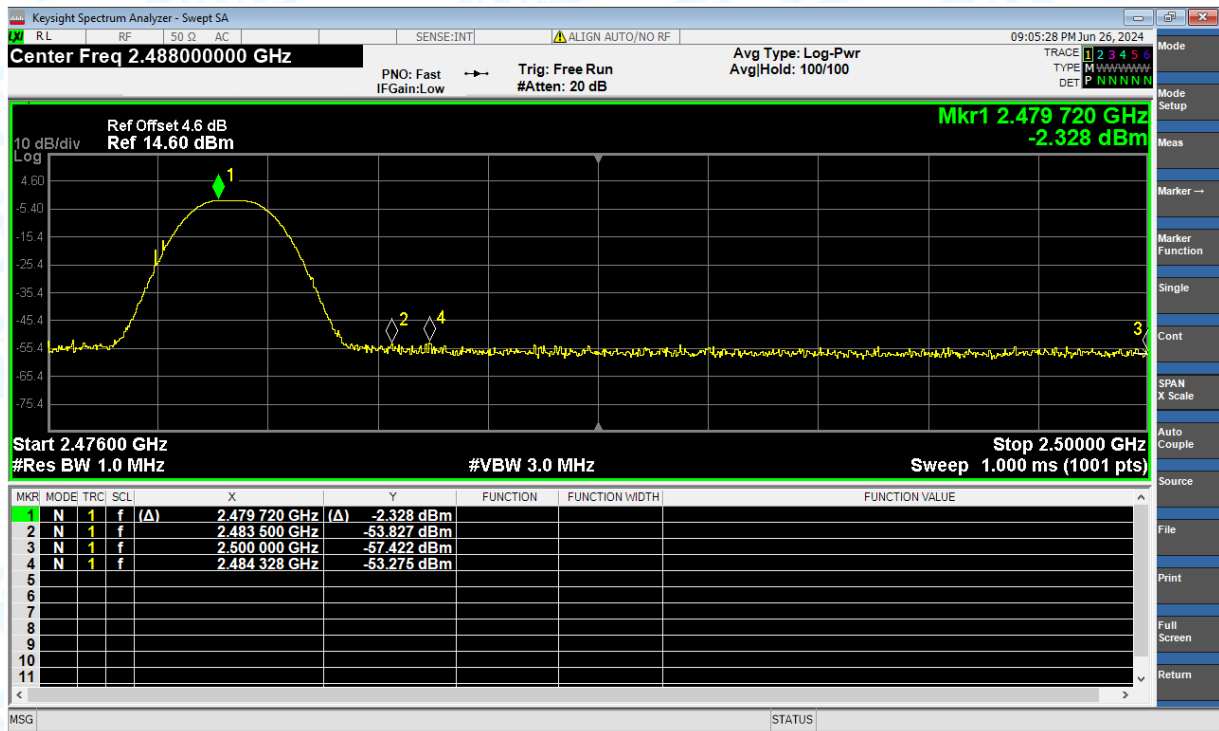
Restrict Band LVNT BLE 1Mbps 2402MHz Ant1 Peak



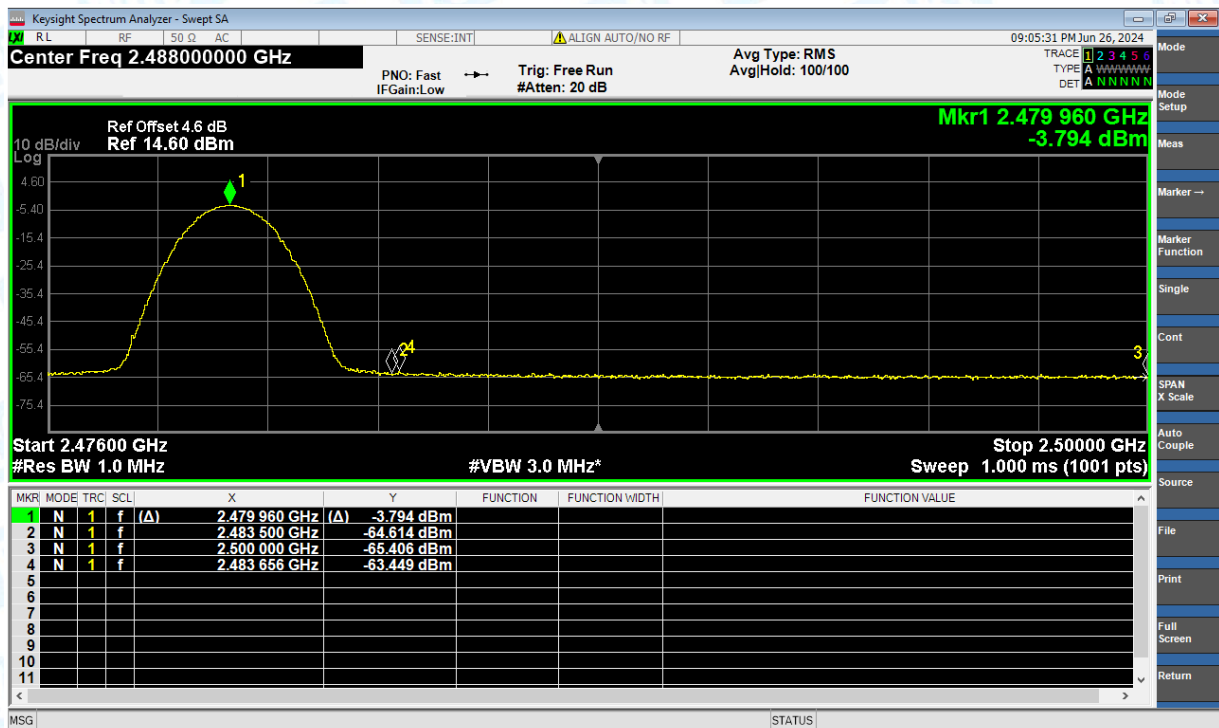
Restrict Band LVNT BLE 1Mbps 2402MHz Ant1 Average



Restrict Band LVNT BLE 1Mbps 2480MHz Ant1 Peak



Restrict Band LVNT BLE 1Mbps 2480MHz Ant1 Average



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