

RF Test Data for Bluetooth LE (Conducted Measurements)

General Description of EUT	
Product Name:	Outdoor Wi-Fi Camera
Test Model:	CM-PT2WU
Sample ID:	HC-C-202603-0006-01-01#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.6V
Test Engineer:	Lily Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202603-0006-6 The report only show the worst case data.	

Contents

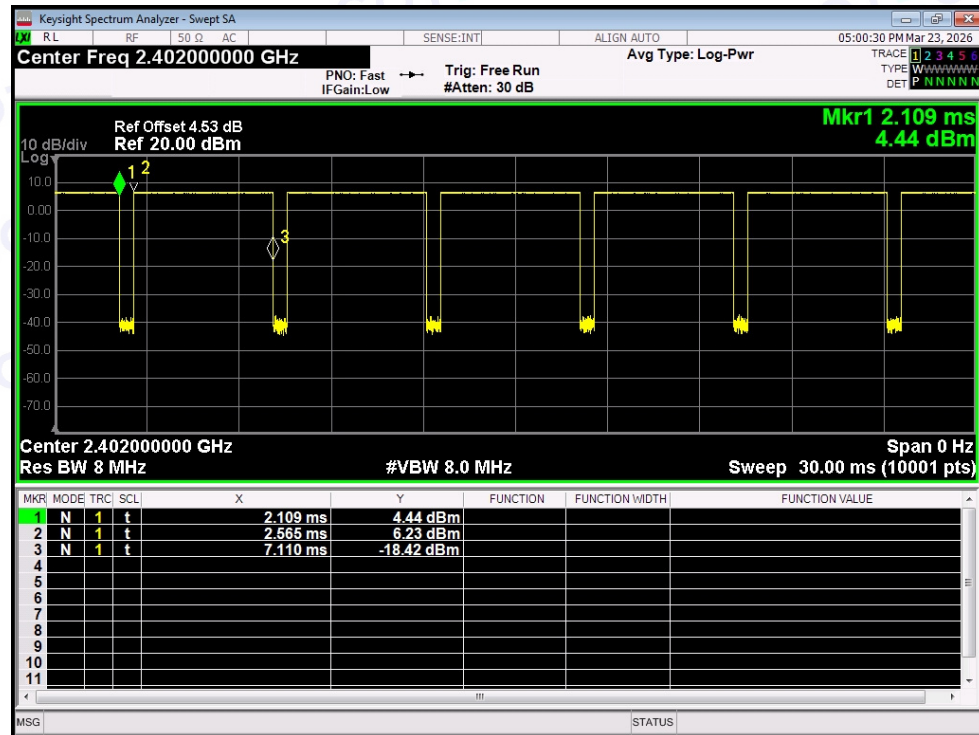
1.Duty Cycle	3
2.Maximum Conducted Output Power	7
3.-6dB Bandwidth	11
4.Occupied Channel Bandwidth	15
5.Maximum Power Spectral Density Level	19
6.Band Edge	23
7.Conducted RF Spurious Emission	28
8.Restrict Band	35

1.Duty Cycle

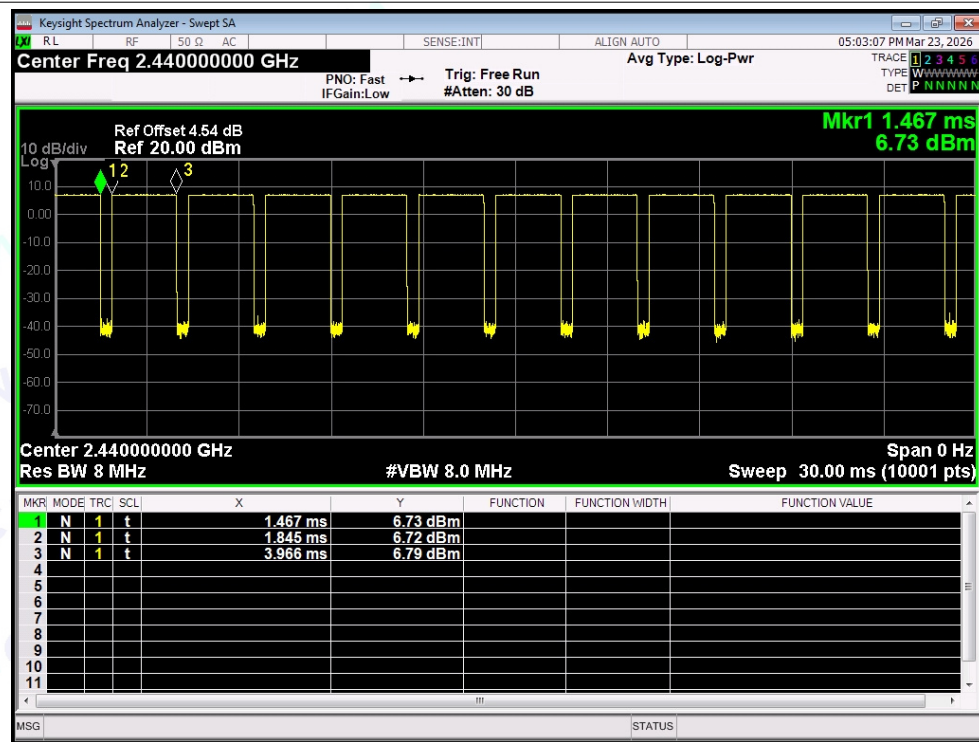
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1Mbps	2402	Ant1	90.88	0.42	0.22
NVNT	BLE 1Mbps	2440	Ant1	84.87	0.71	0.47
NVNT	BLE 1Mbps	2480	Ant1	84.87	0.71	0.47
NVNT	BLE 2Mbps	2402	Ant1	56.8	2.46	0.94
NVNT	BLE 2Mbps	2440	Ant1	56.8	2.46	0.94
NVNT	BLE 2Mbps	2480	Ant1	56.85	2.45	0.94

Test Graphs

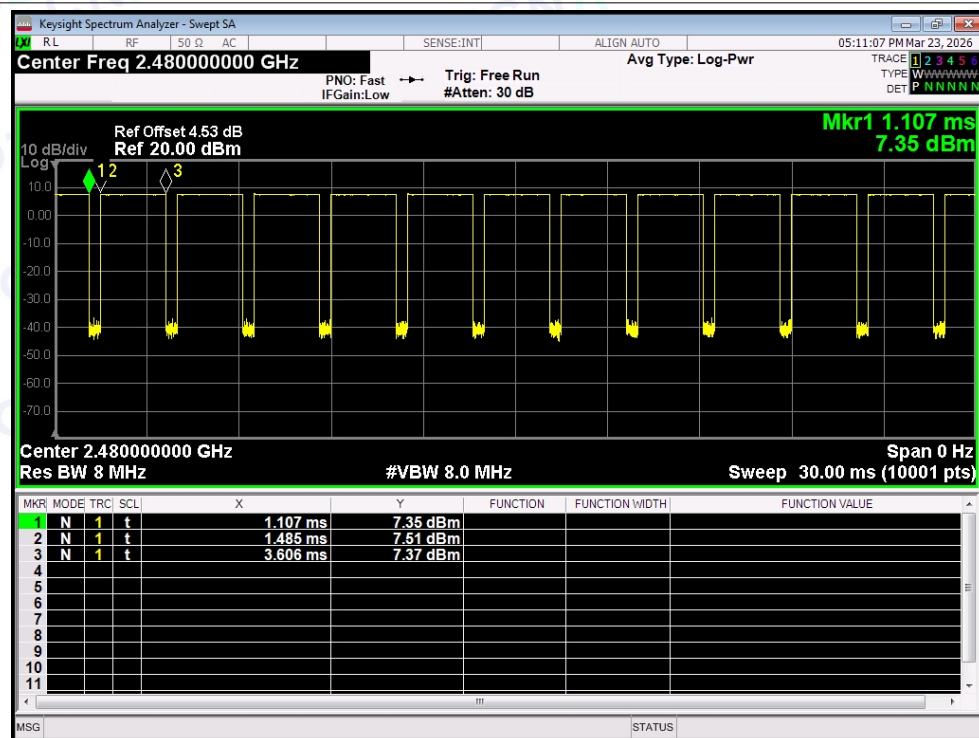
Duty Cycle NVNT BLE 1Mbps 2402MHz Ant1



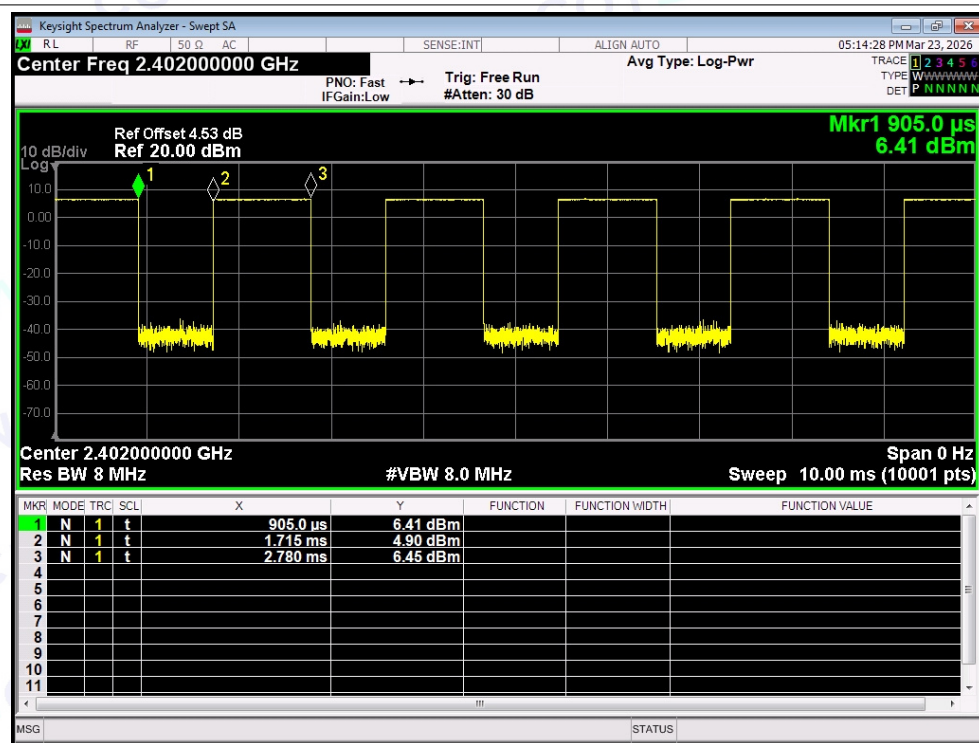
Duty Cycle NVNT BLE 1Mbps 2440MHz Ant1



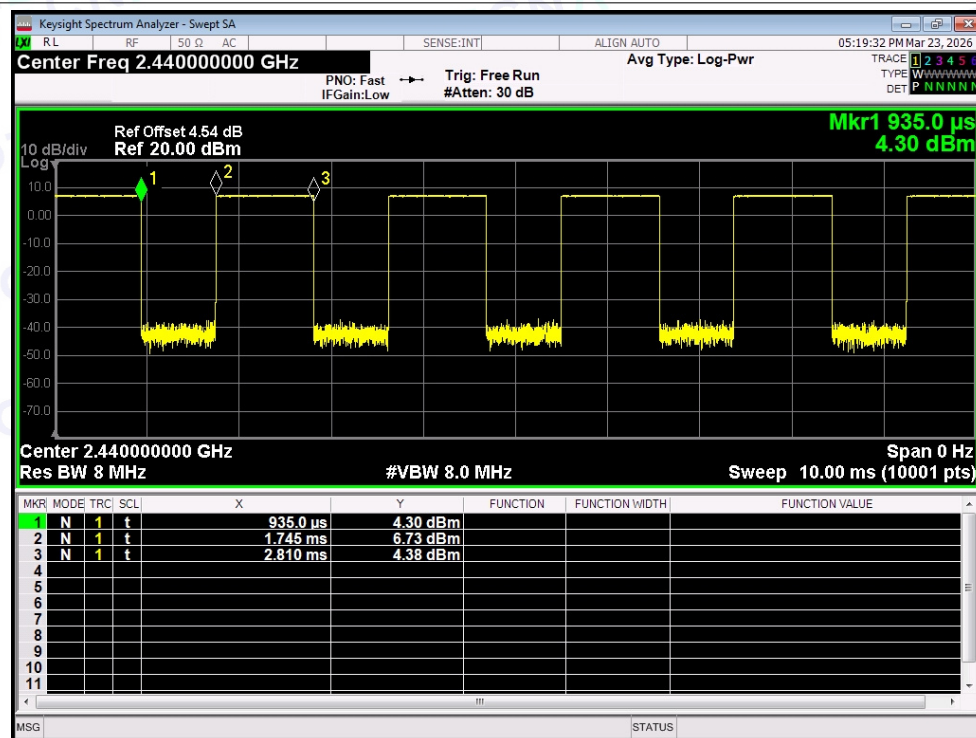
Duty Cycle NVNT BLE 1Mbps 2480MHz Ant1



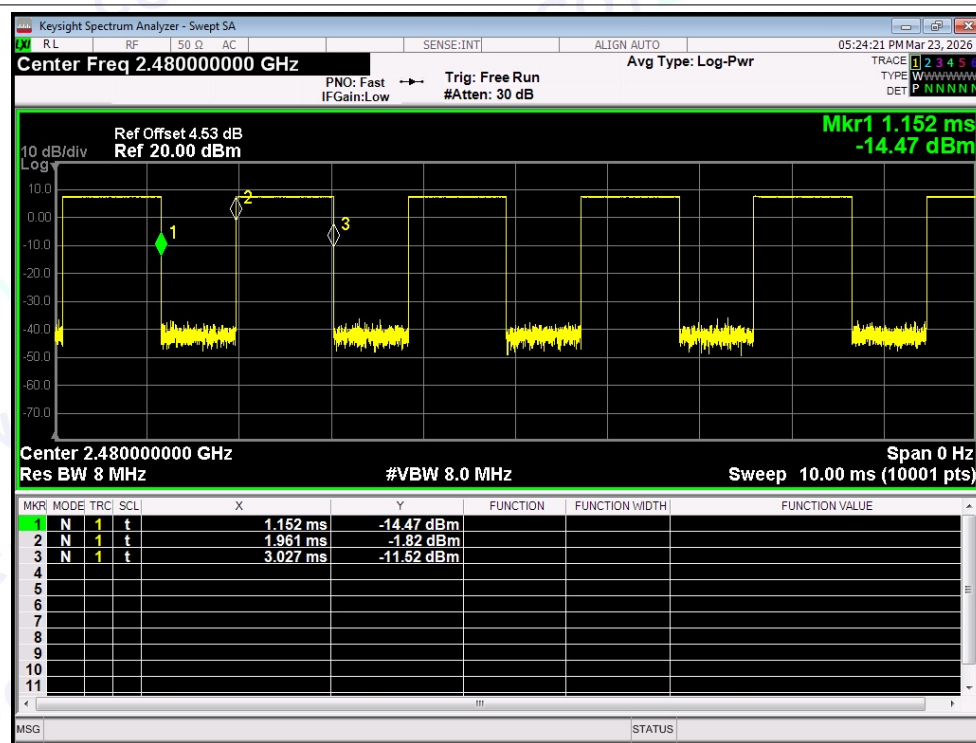
Duty Cycle NVNT BLE 2Mbps 2402MHz Ant1



Duty Cycle NVNT BLE 2Mbps 2440MHz Ant1



Duty Cycle NVNT BLE 2Mbps 2480MHz Ant1

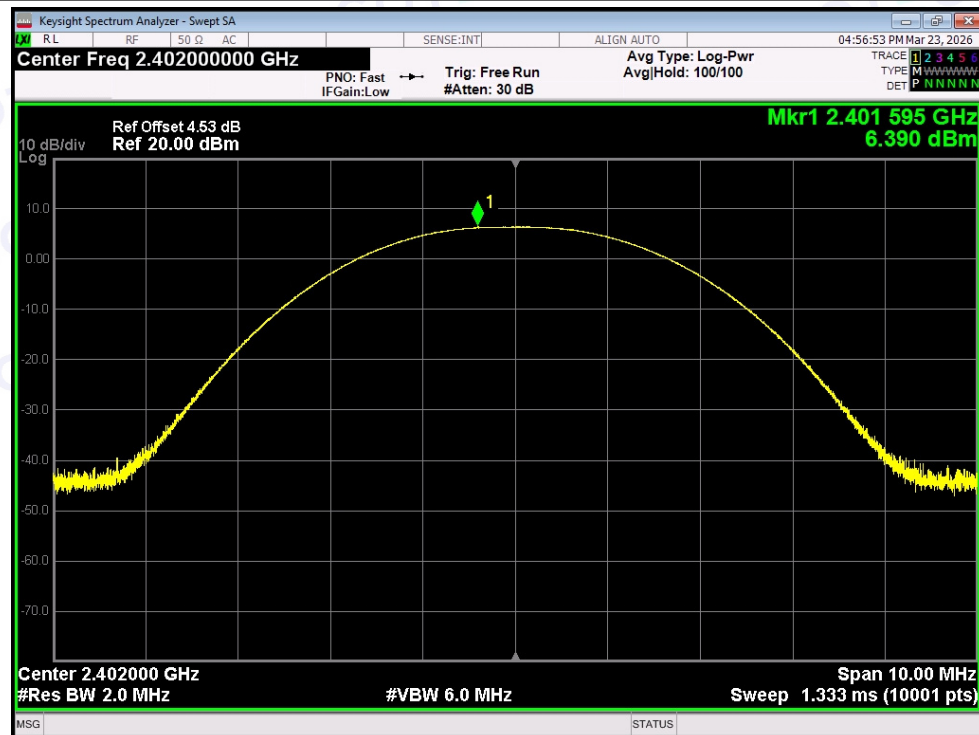


2.Maximum Conducted Output Power

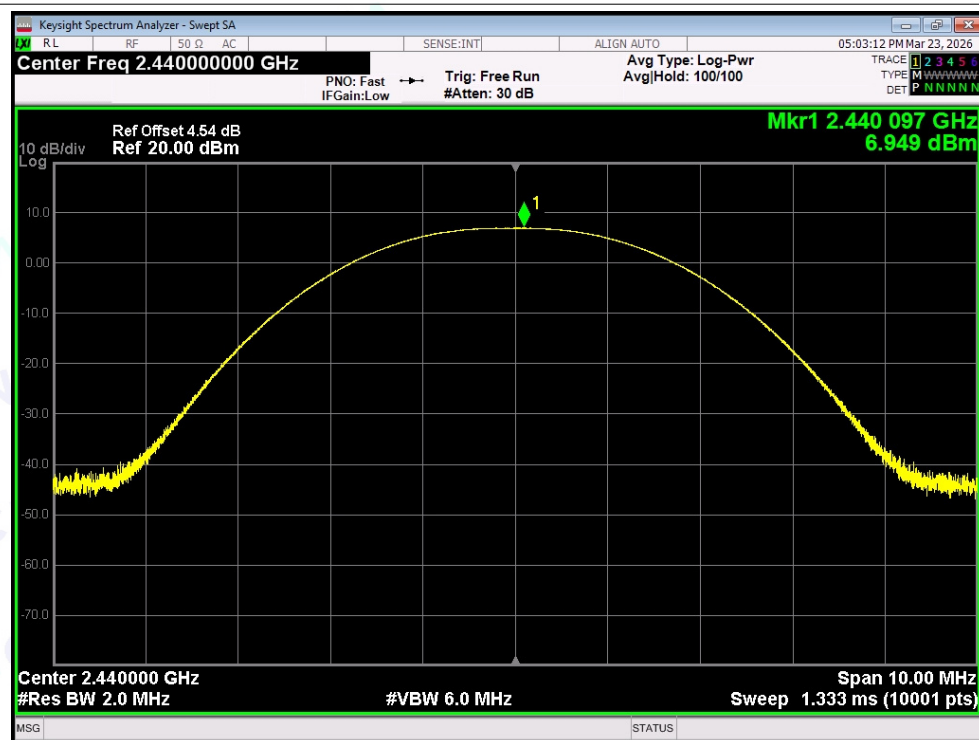
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	6.39	30	Pass
NVNT	BLE 1Mbps	2440	Ant1	6.949	30	Pass
NVNT	BLE 1Mbps	2480	Ant1	7.529	30	Pass
NVNT	BLE 2Mbps	2402	Ant1	6.453	30	Pass
NVNT	BLE 2Mbps	2440	Ant1	7.005	30	Pass
NVNT	BLE 2Mbps	2480	Ant1	7.425	30	Pass

Test Graphs

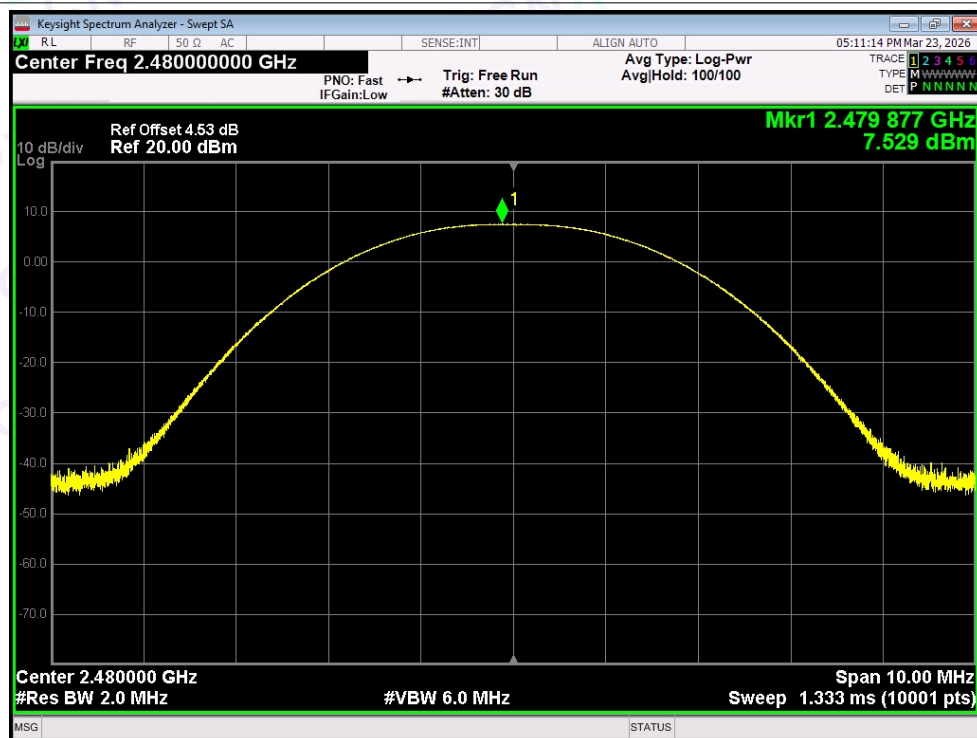
Power NVNT BLE 1Mbps 2402MHz Ant1



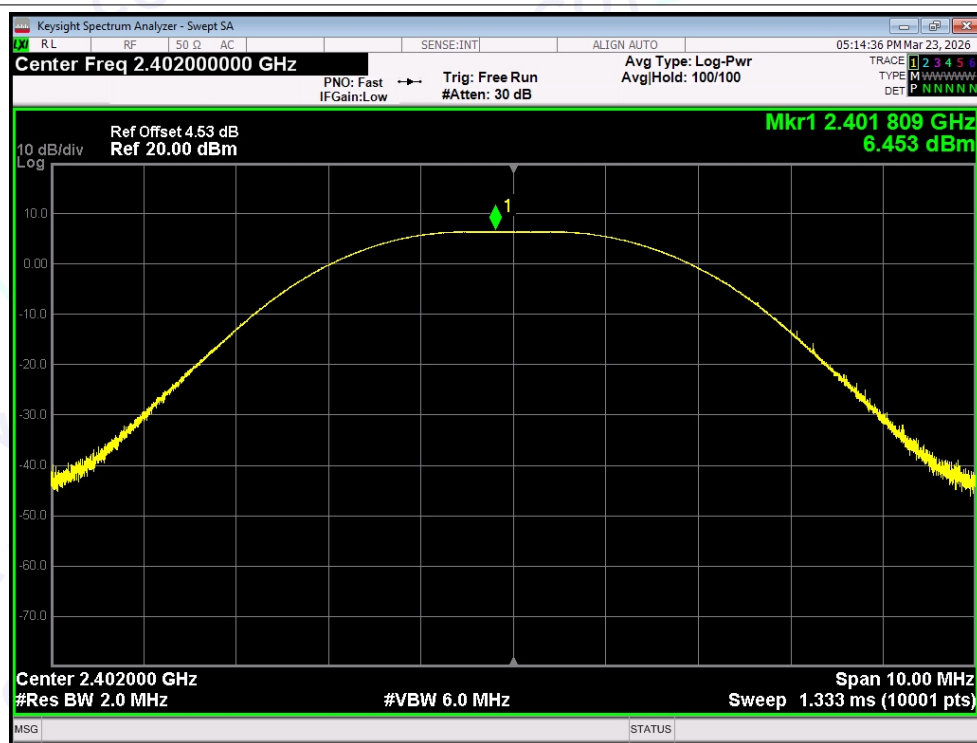
Power NVNT BLE 1Mbps 2440MHz Ant1



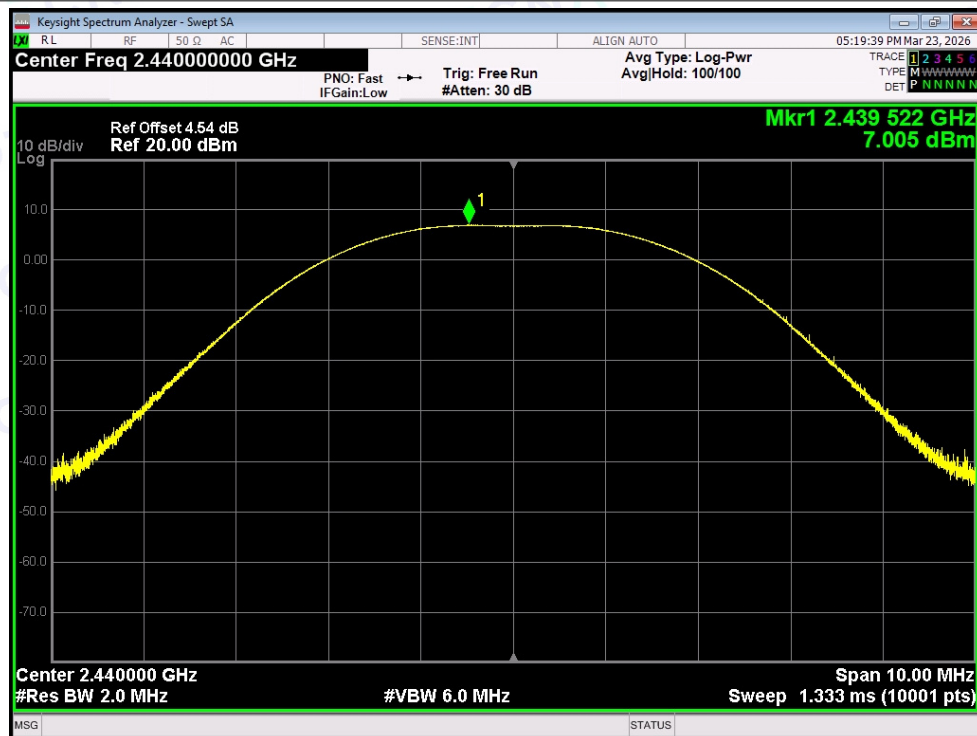
Power NVNT BLE 1Mbps 2480MHz Ant1



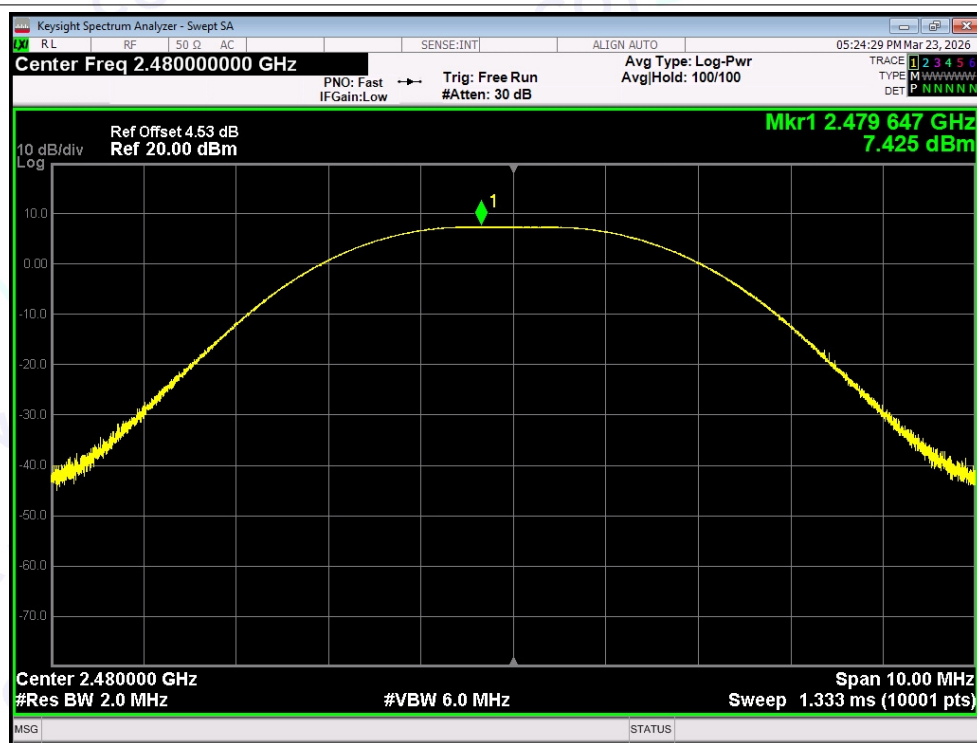
Power NVNT BLE 2Mbps 2402MHz Ant1



Power NVNT BLE 2Mbps 2440MHz Ant1



Power NVNT BLE 2Mbps 2480MHz Ant1

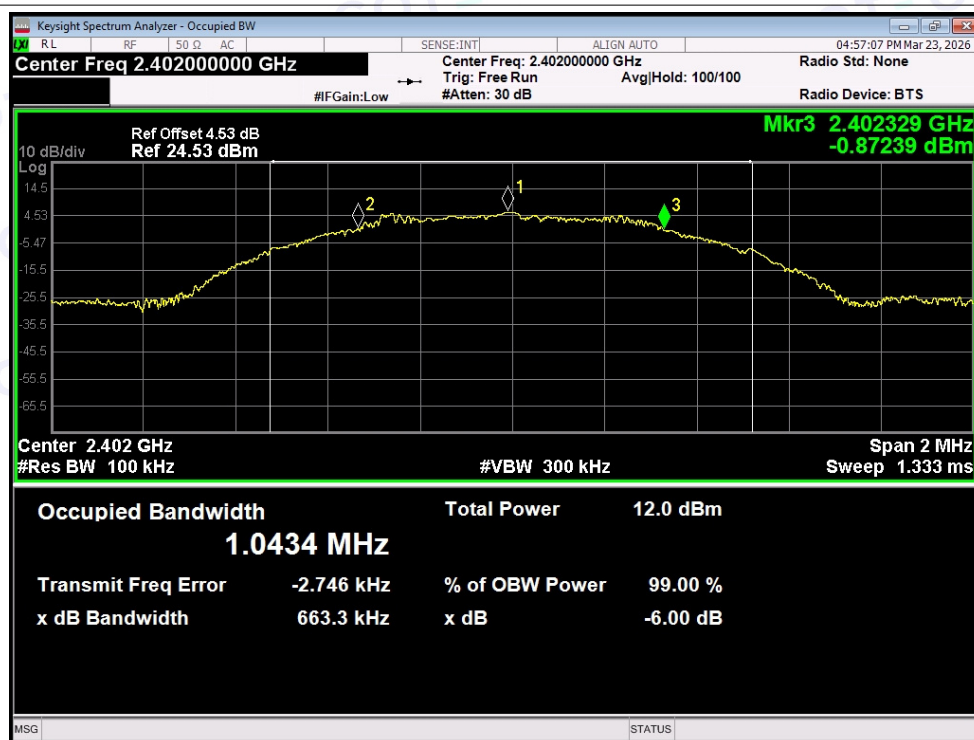


3.-6dB Bandwidth

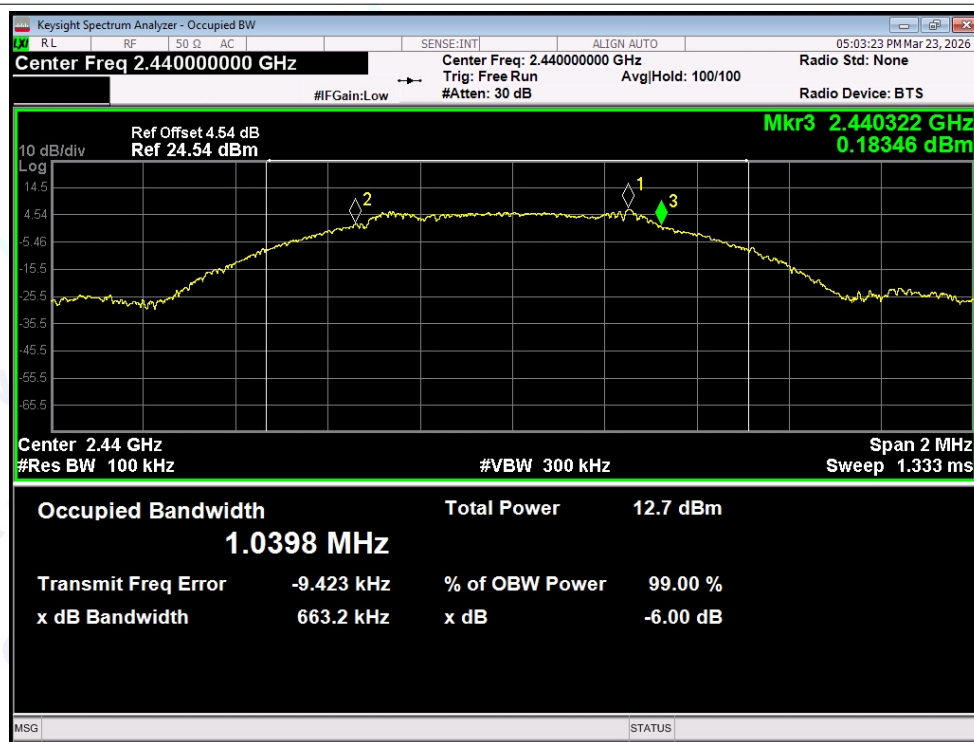
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	0.66	0.5	Pass
NVNT	BLE 1Mbps	2440	Ant1	0.66	0.5	Pass
NVNT	BLE 1Mbps	2480	Ant1	0.66	0.5	Pass
NVNT	BLE 2Mbps	2402	Ant1	1.24	0.5	Pass
NVNT	BLE 2Mbps	2440	Ant1	1.27	0.5	Pass
NVNT	BLE 2Mbps	2480	Ant1	1.24	0.5	Pass

Test Graphs

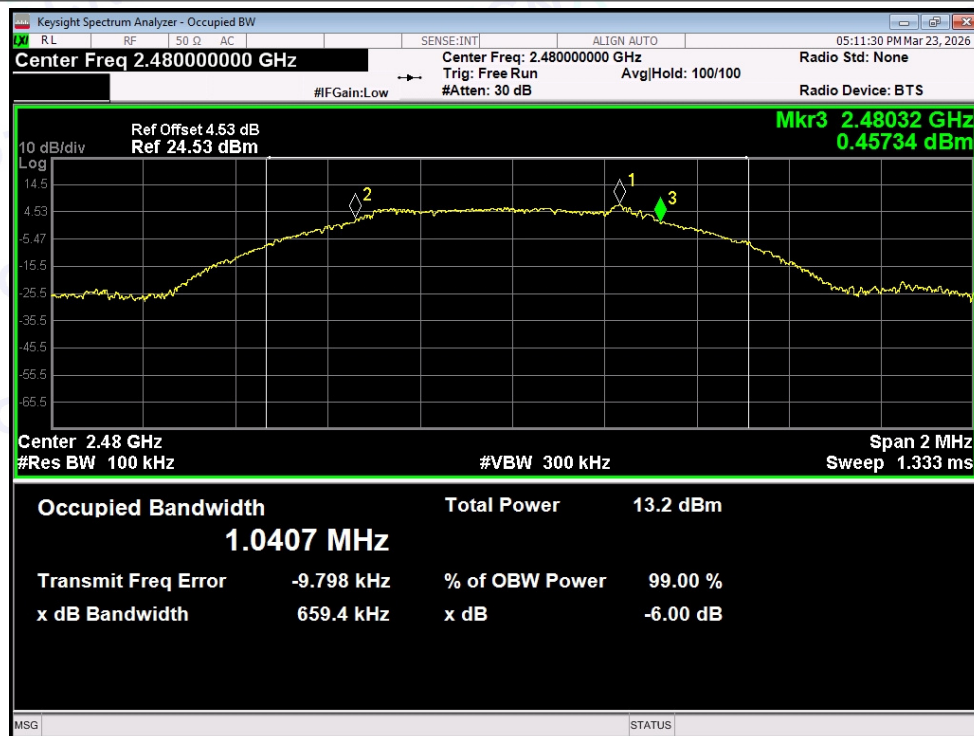
-6dB Bandwidth NVNT BLE 1Mbps 2402MHz Ant1



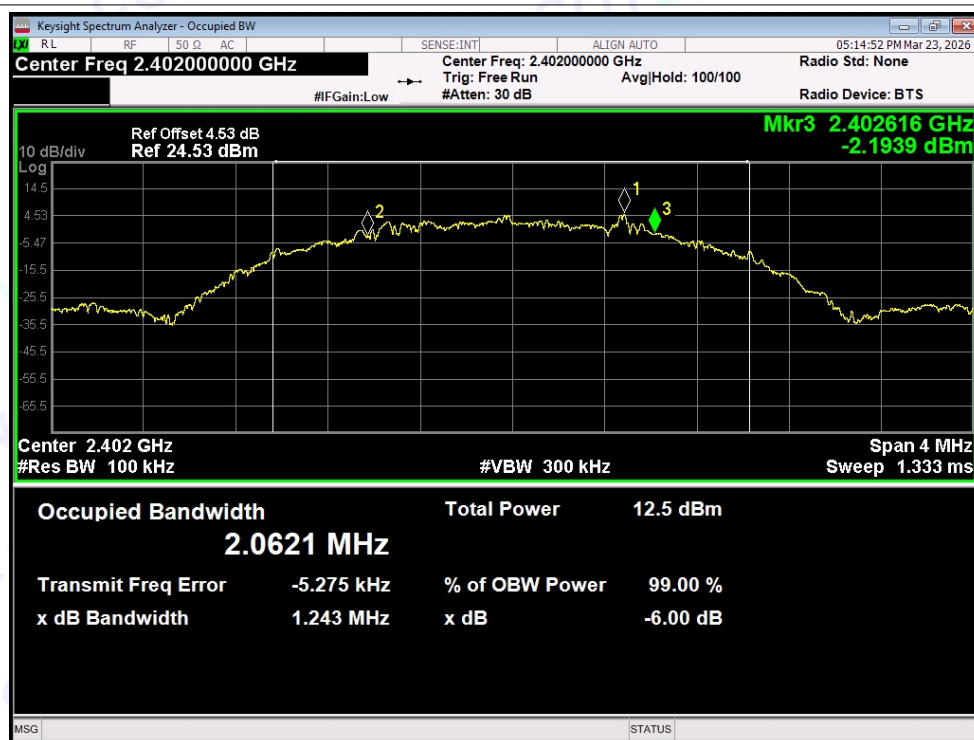
-6dB Bandwidth NVNT BLE 1Mbps 2440MHz Ant1



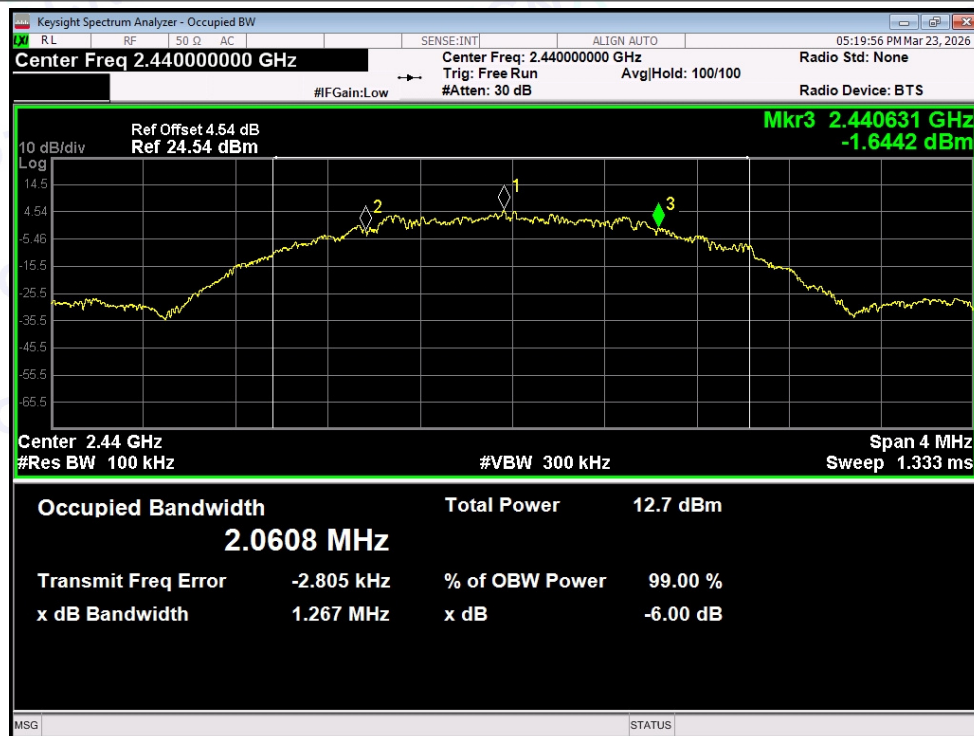
-6dB Bandwidth NVNT BLE 1Mbps 2480MHz Ant1



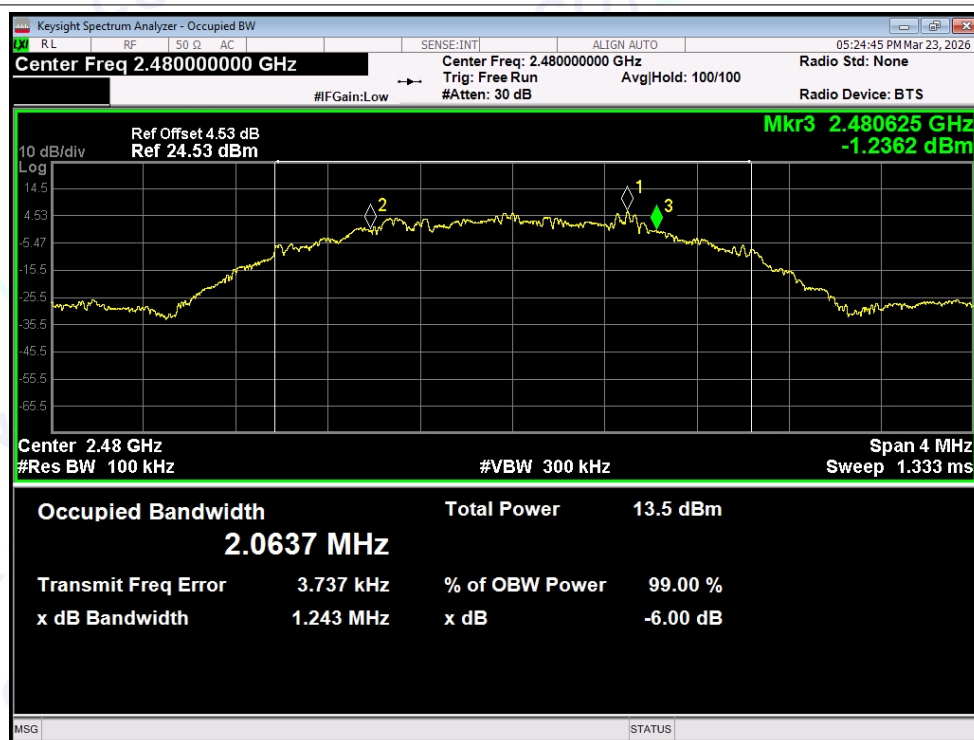
-6dB Bandwidth NVNT BLE 2Mbps 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2Mbps 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2Mbps 2480MHz Ant1

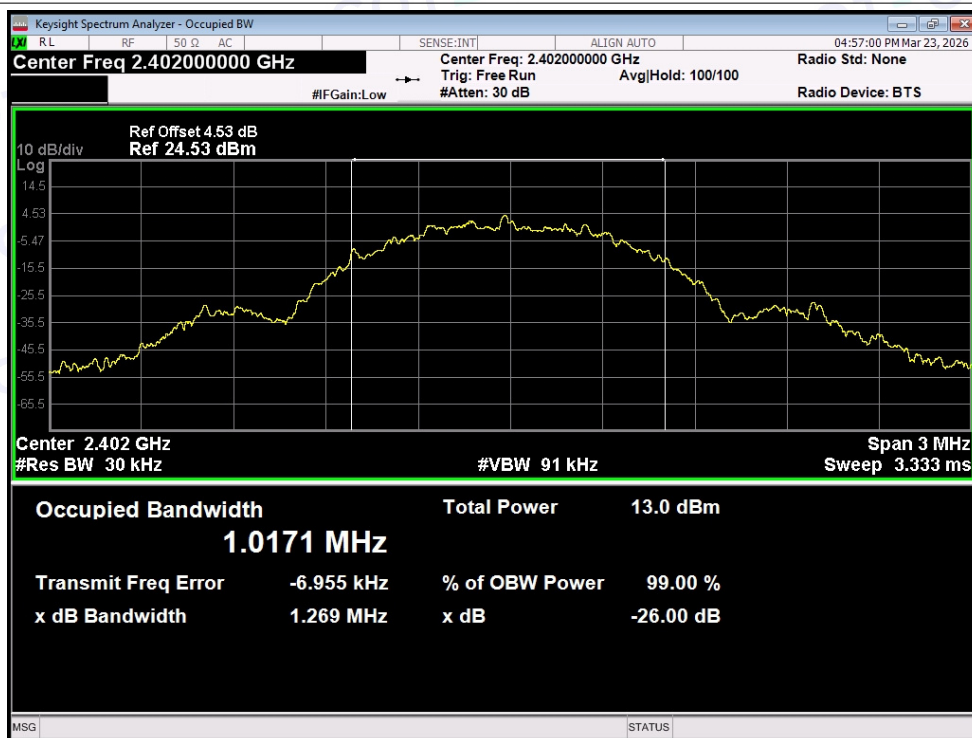


4.Occupied Channel Bandwidth

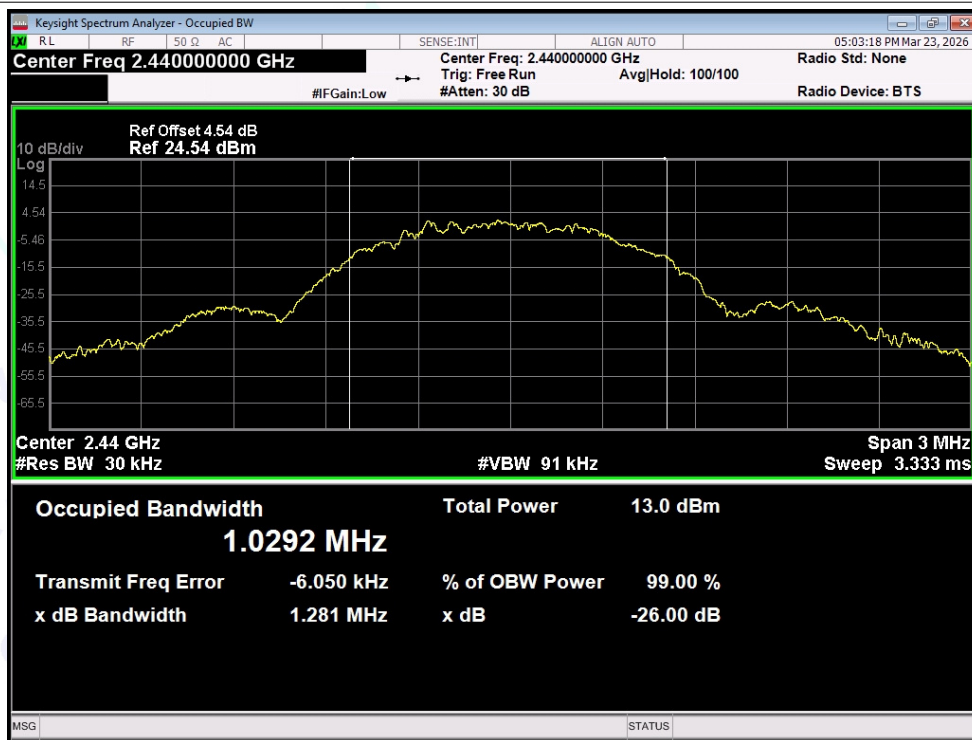
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1Mbps	2402	Ant1	1.017
NVNT	BLE 1Mbps	2440	Ant1	1.029
NVNT	BLE 1Mbps	2480	Ant1	1.036
NVNT	BLE 2Mbps	2402	Ant1	2.06
NVNT	BLE 2Mbps	2440	Ant1	2.058
NVNT	BLE 2Mbps	2480	Ant1	2.058

Test Graphs

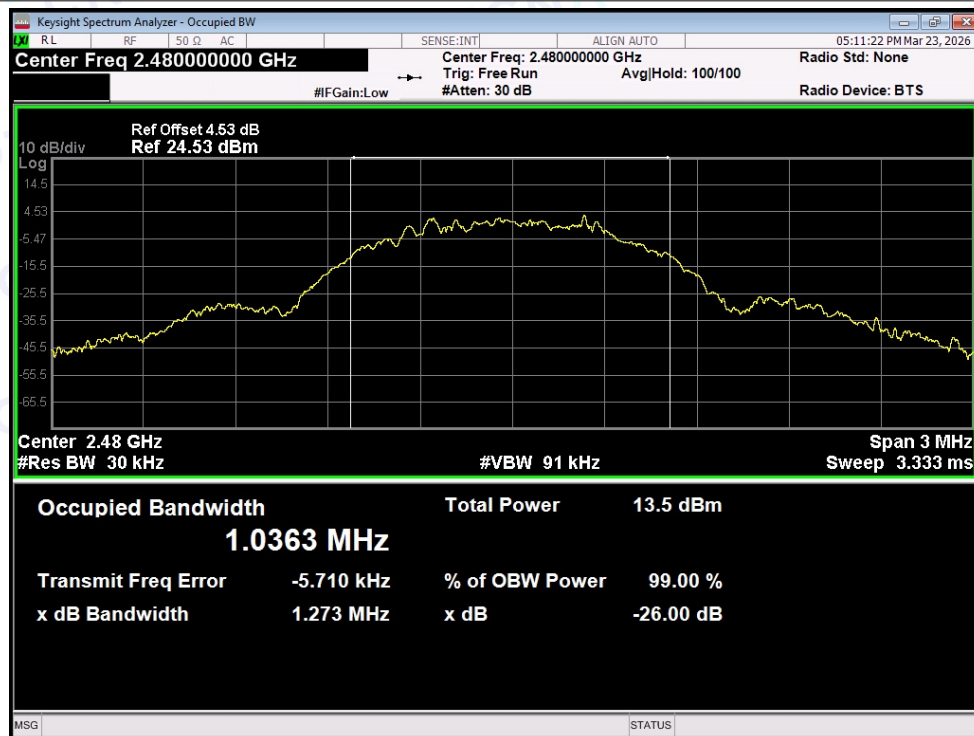
OBW NVNT BLE 1Mbps 2402MHz Ant1



OBW NVNT BLE 1Mbps 2440MHz Ant1



OBW NVNT BLE 1Mbps 2480MHz Ant1



OBW NVNT BLE 2Mbps 2402MHz Ant1

