

RF Test Data for ZigBee (Conducted Measurements)

General Description of EUT	
Product Name:	Gimbal Control Wheels
Test Model:	4525
Sample ID:	HC-C-202412-0180-01-01
Environmental Conditions	
Temperature:	25.2℃
Relative Humidity:	48.2%
Test Voltage:	DC 5V
Test Engineer:	ZKN Zhou
Note: For a more detailed features description, please refer to the report TBR-C-202410-0180-2 The report only show the worst case data.	

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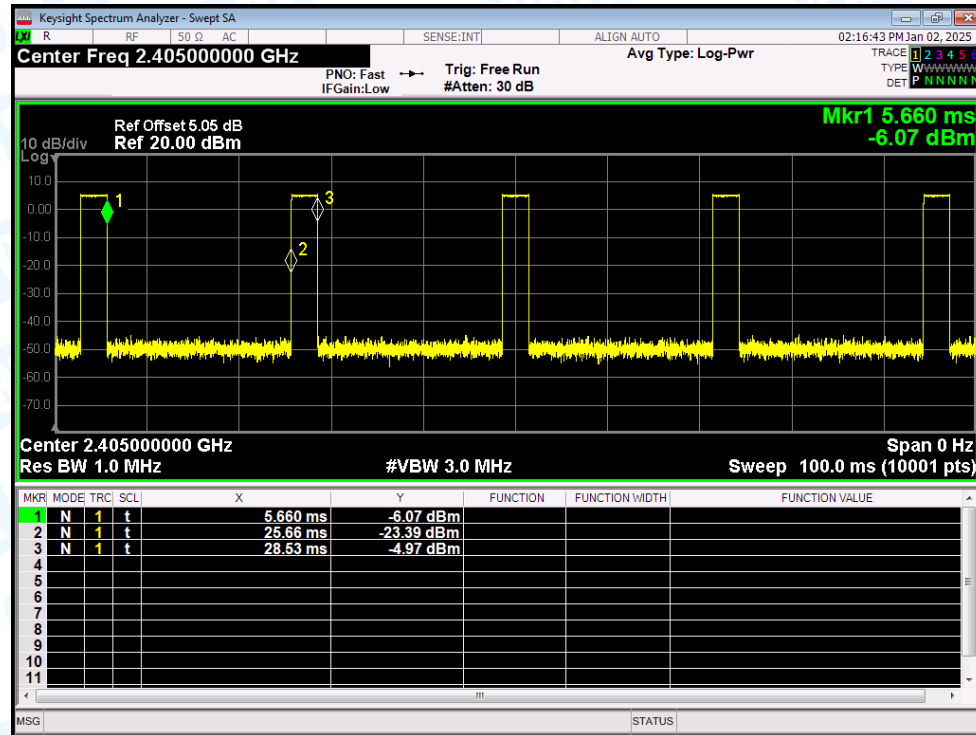
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1. Duty Cycle

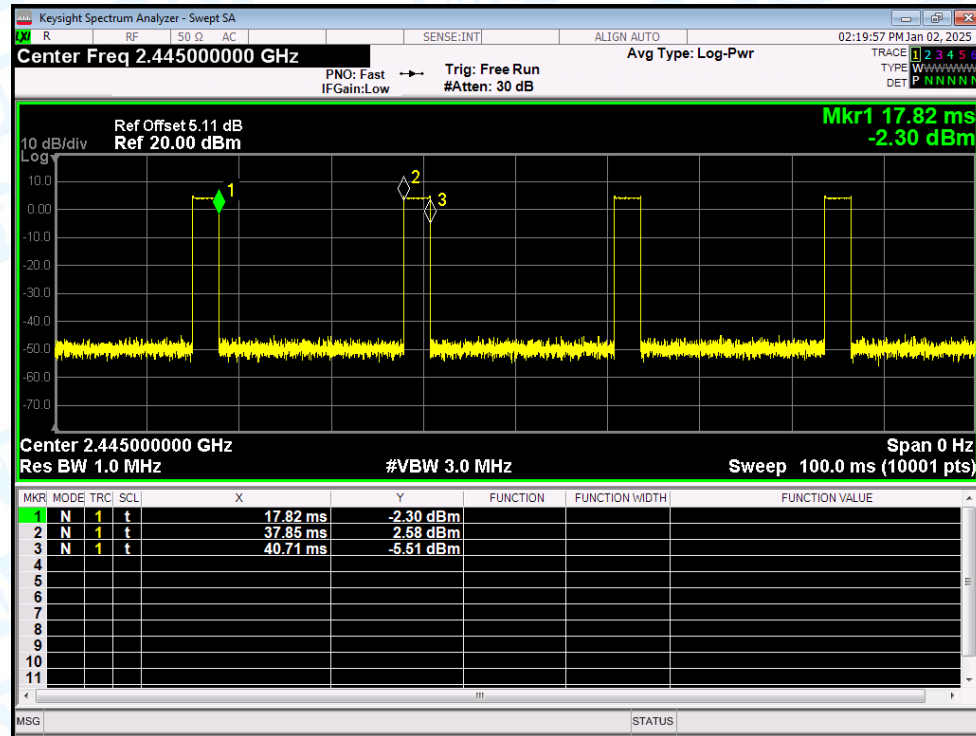
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ZigBee	2405	Ant1	12.55	9.01	0.35
NVNT	ZigBee	2445	Ant1	12.49	9.03	0.35
NVNT	ZigBee	2480	Ant1	12.54	9.02	0.35

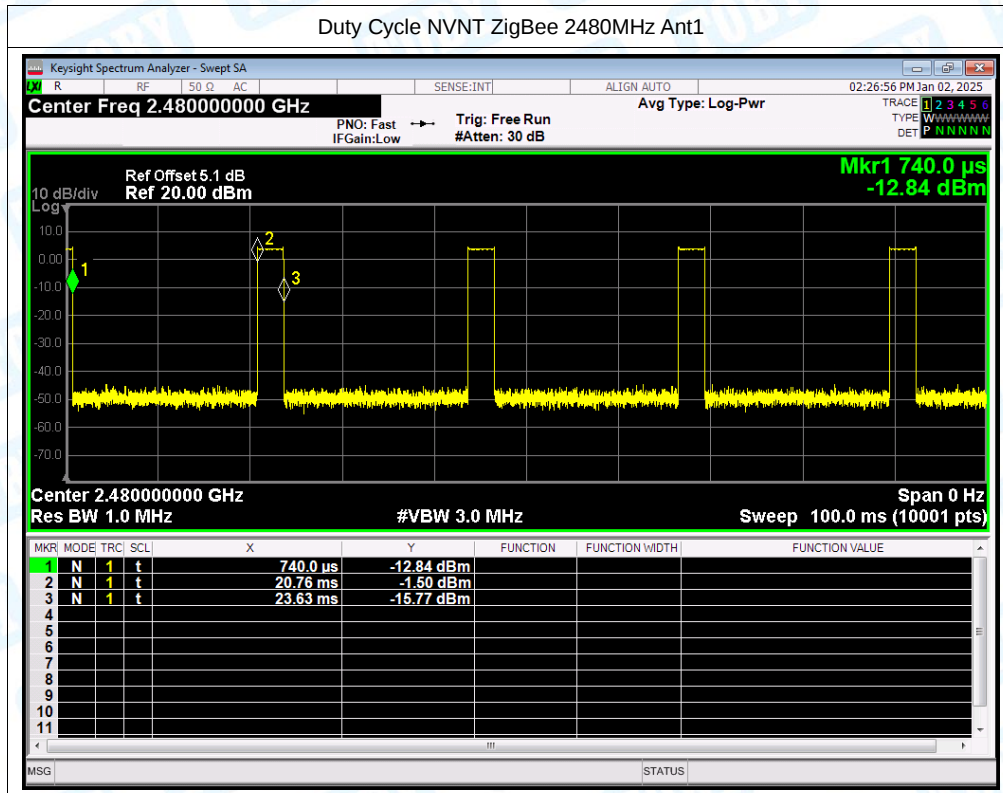
Test Graphs

Duty Cycle NVNT ZigBee 2405MHz Ant1



Duty Cycle NVNT ZigBee 2445MHz Ant1



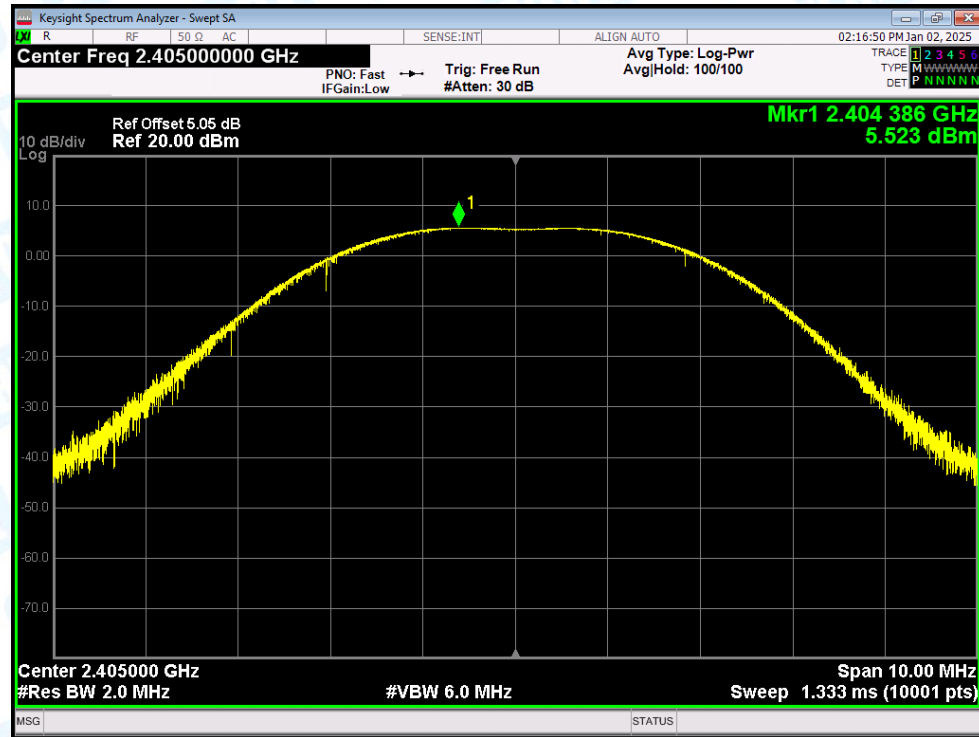


2. Maximum Conducted Output Power

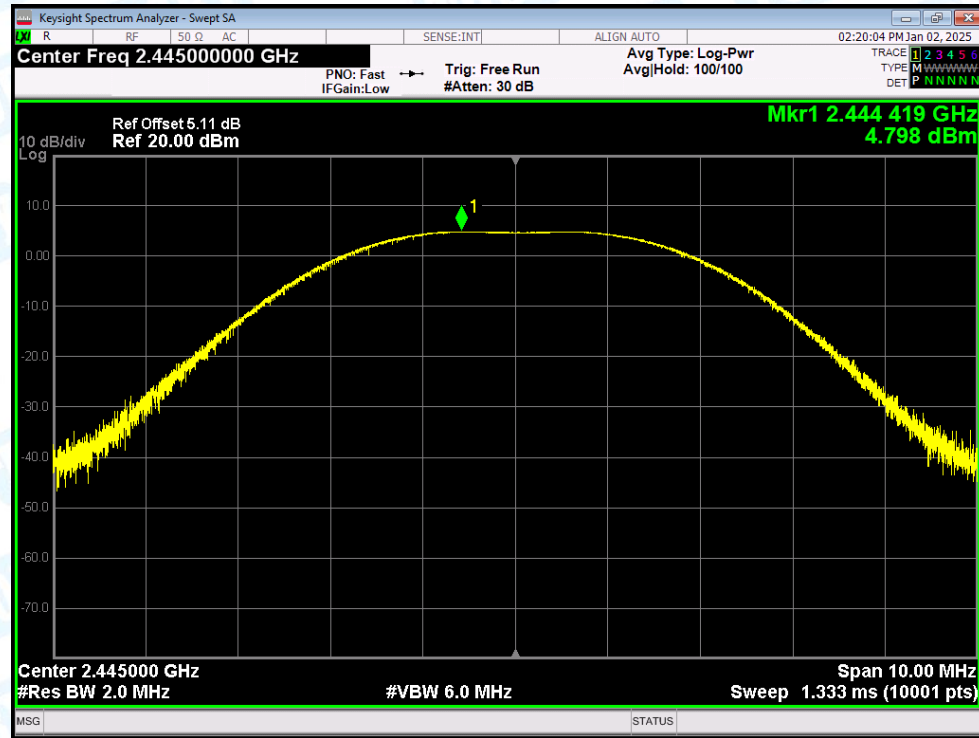
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	ZigBee	2405	Ant1	5.523	30	Pass
NVNT	ZigBee	2445	Ant1	4.798	30	Pass
NVNT	ZigBee	2480	Ant1	4.475	30	Pass

Test Graphs

Power NVNT ZigBee 2405MHz Ant1



Power NVNT ZigBee 2445MHz Ant1



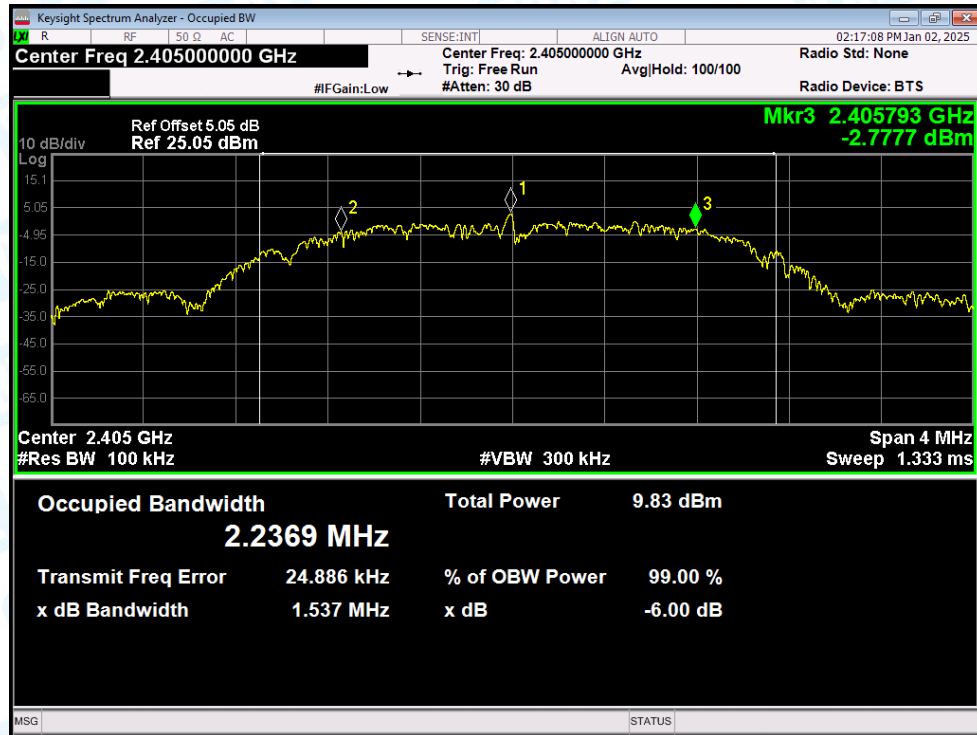


3. -6dB Bandwidth

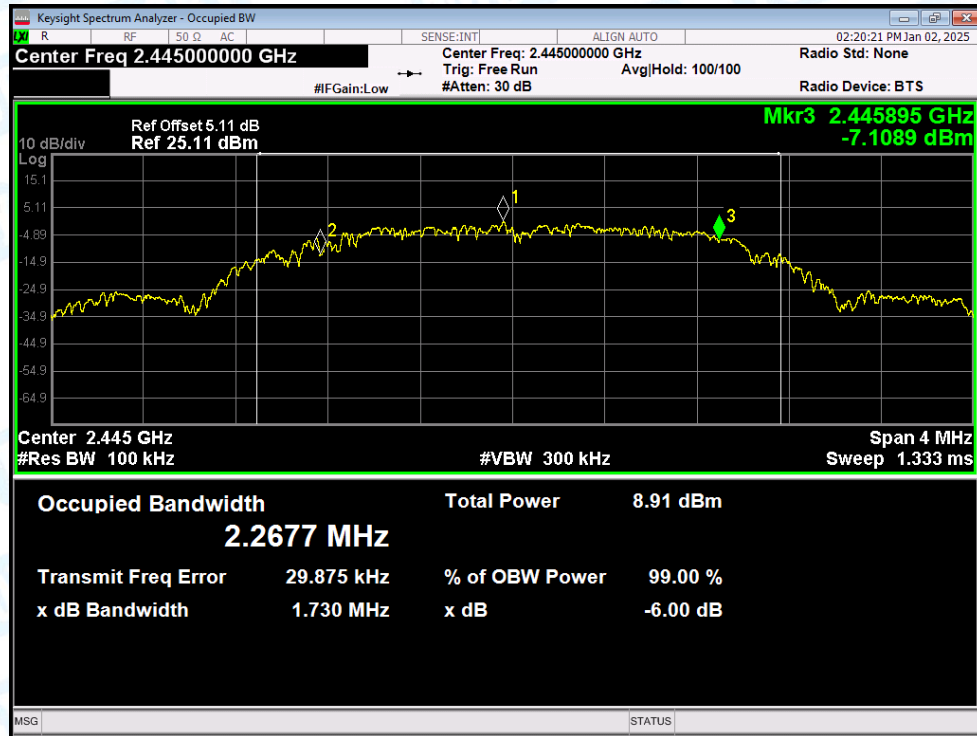
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ZigBee	2405	Ant1	1.54	0.5	Pass
NVNT	ZigBee	2445	Ant1	1.73	0.5	Pass
NVNT	ZigBee	2480	Ant1	1.57	0.5	Pass

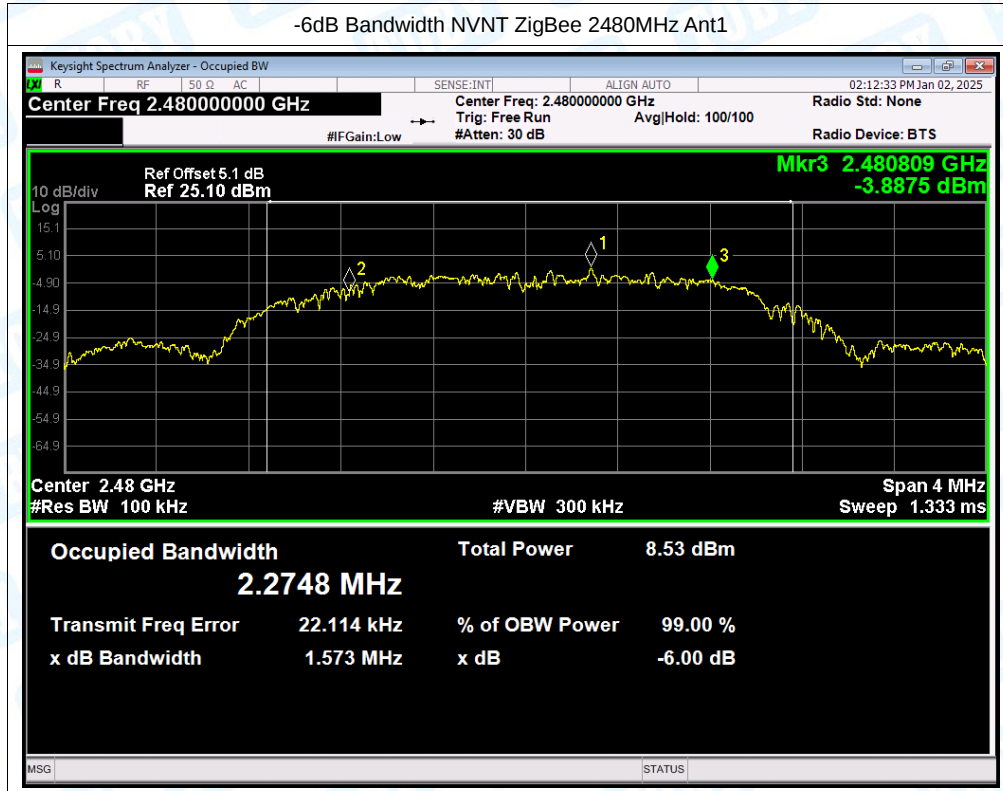
Test Graphs

-6dB Bandwidth NVNT ZigBee 2405MHz Ant1



-6dB Bandwidth NVNT ZigBee 2445MHz Ant1



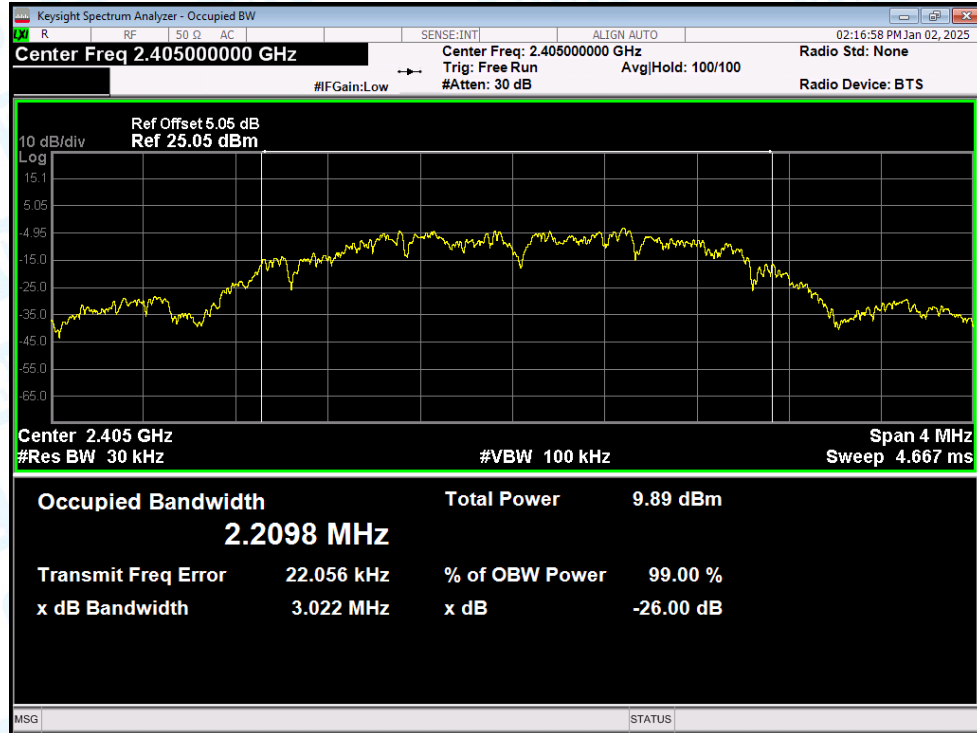


4. Occupied Channel Bandwidth

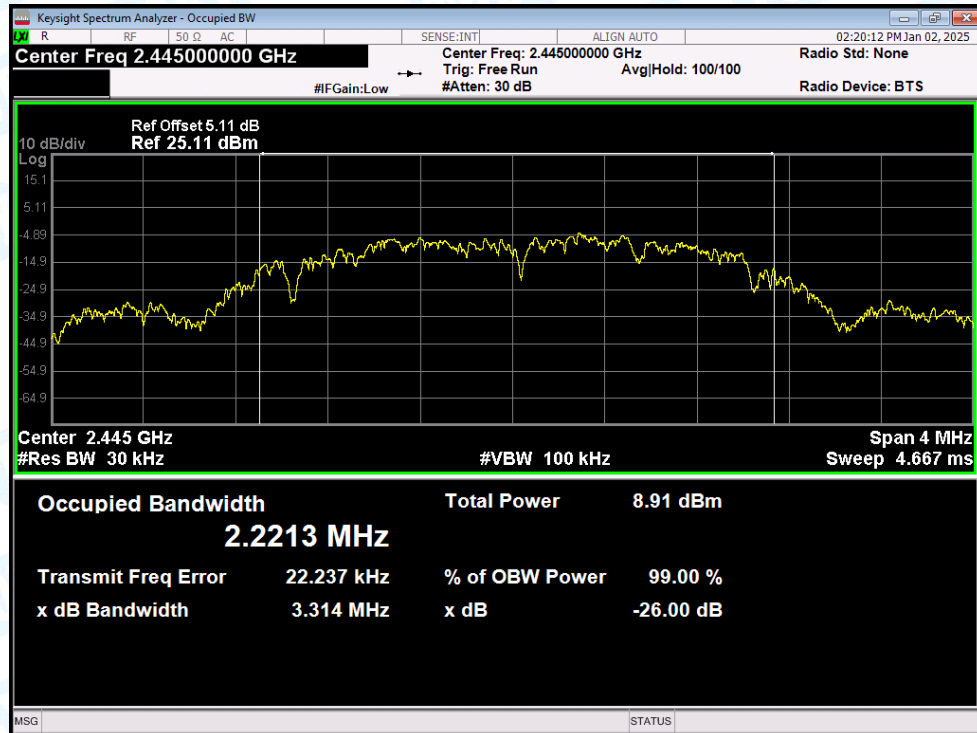
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ZigBee	2405	Ant1	2.21
NVNT	ZigBee	2445	Ant1	2.221
NVNT	ZigBee	2480	Ant1	2.223

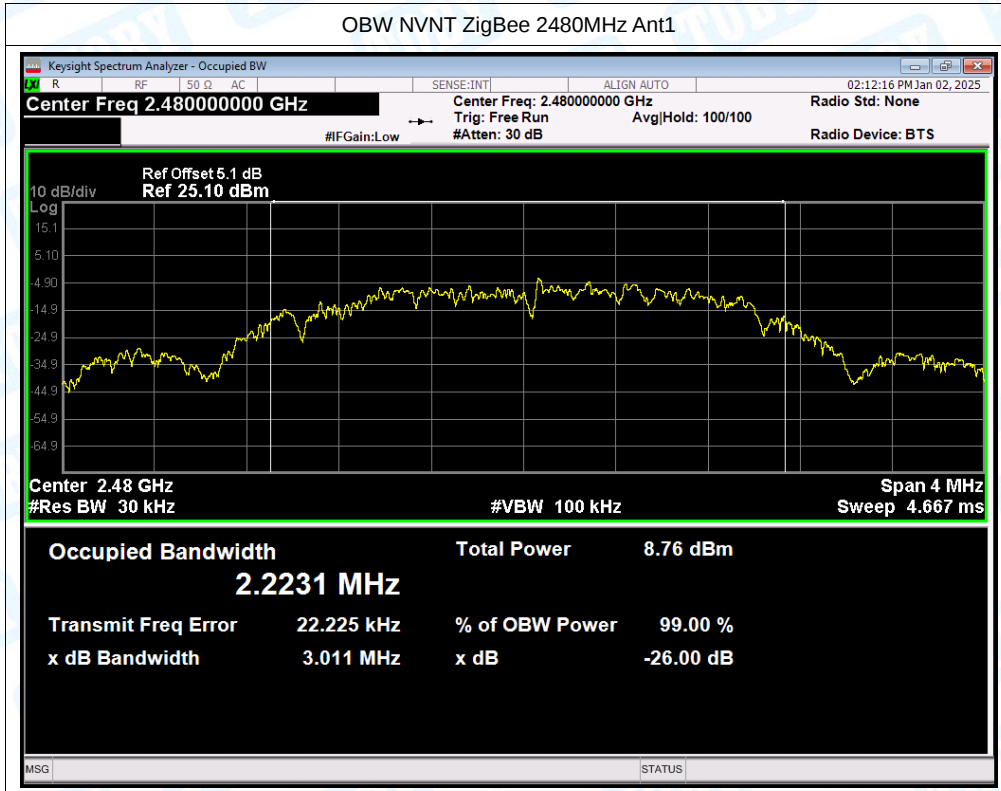
Test Graphs

OBW NVNT ZigBee 2405MHz Ant1



OBW NVNT ZigBee 2445MHz Ant1



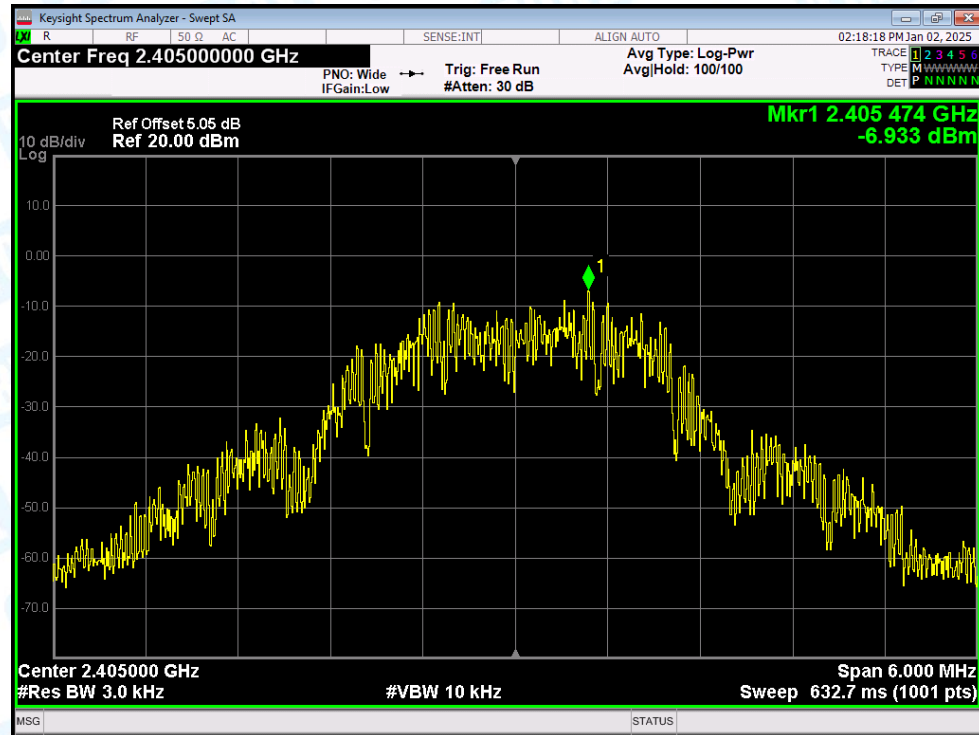


5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3KHz)	Limit(dBm/3KHz)	Verdict
NVNT	ZigBee	2405	Ant1	-6.933	8	Pass
NVNT	ZigBee	2445	Ant1	-7.767	8	Pass
NVNT	ZigBee	2480	Ant1	-8.005	8	Pass

Test Graphs

PSD NVNT ZigBee 2405MHz Ant1



PSD NVNT ZigBee 2445MHz Ant1

