

[Test mode: TX High channel]; [Polarity: Horizontal] ;[Power: DC7.4V]

Radiated Emission Measurement



Site Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Atlas Headrest Speaker

M/N: R5701Q1

Mode: BLE1M-2480

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	49.73	-2.91	46.82	74.00	-27.18	peak	
2		2500.000	43.46	-3.00	40.46	74.00	-33.54	peak	

Test Result: Pass

[Test mode:TX High channel]; [Polarity: Vertical] ;[Power: DC7.4V]

Radiated Emission Measurement



Site Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Atlas Headrest Speaker

M/N: R5701Q1

Mode: BLE1M-2480

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2483.500	51.29	-2.91	48.38	74.00	-25.62	peak	
2		2500.000	42.58	-3.00	39.58	74.00	-34.42	peak	

Test Result: Pass

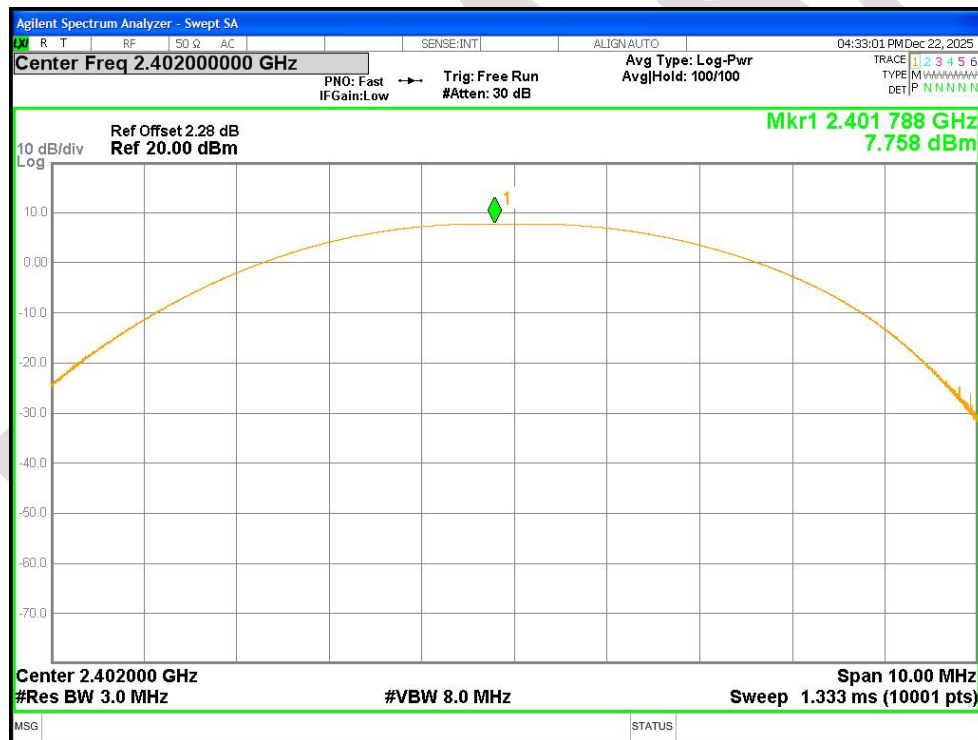
For Radiated emission,1Mbps and 2Mbps mode all have been tested,only worse case 1Mbps mode is reported.

7 Appendix A

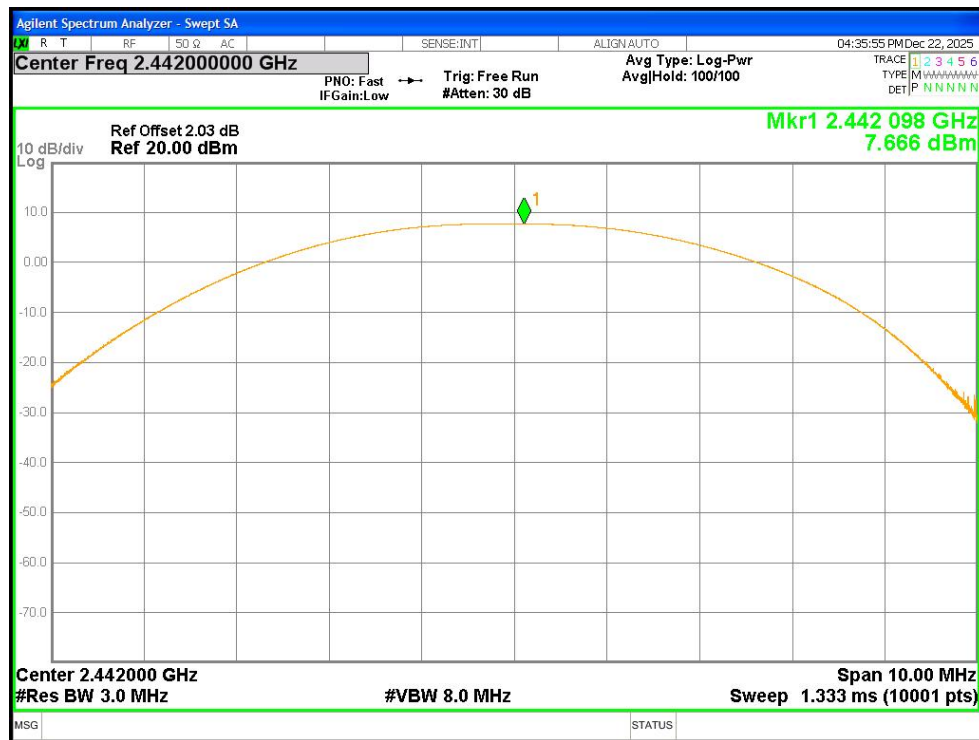
7.1 Maximum PK Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	7.758	30	Pass
NVNT	BLE 1M	2442	Ant1	7.666	30	Pass
NVNT	BLE 1M	2480	Ant1	4.868	30	Pass
NVNT	BLE 2M	2402	Ant1	4.858	30	Pass
NVNT	BLE 2M	2442	Ant1	4.865	30	Pass
NVNT	BLE 2M	2480	Ant1	4.942	30	Pass

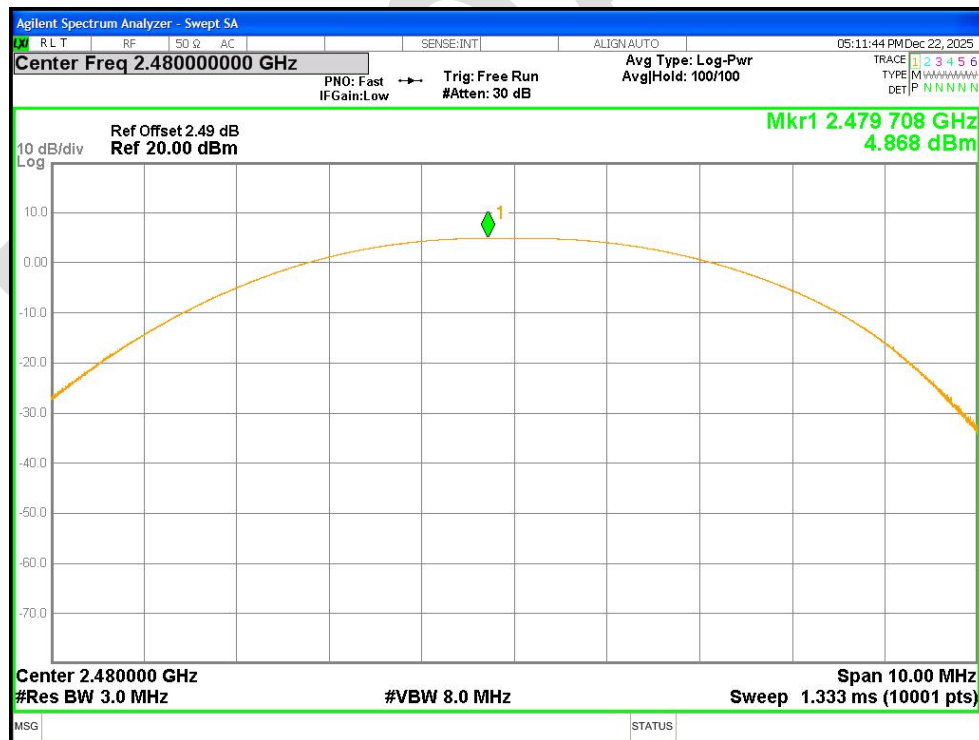
Power NVNT BLE 1M 2402MHz Ant1



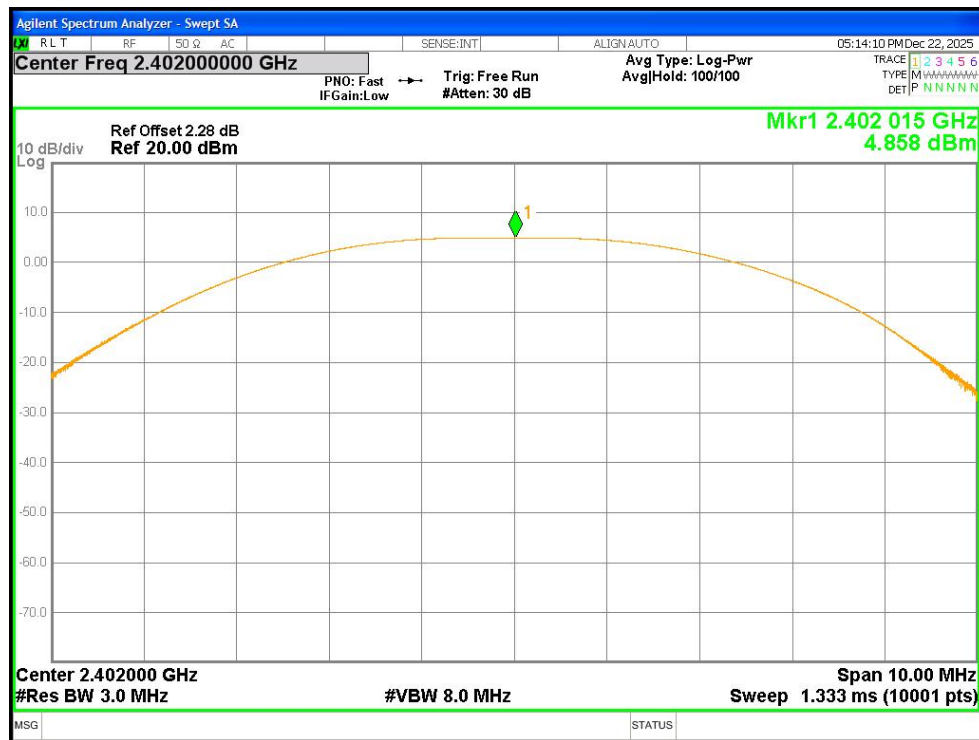
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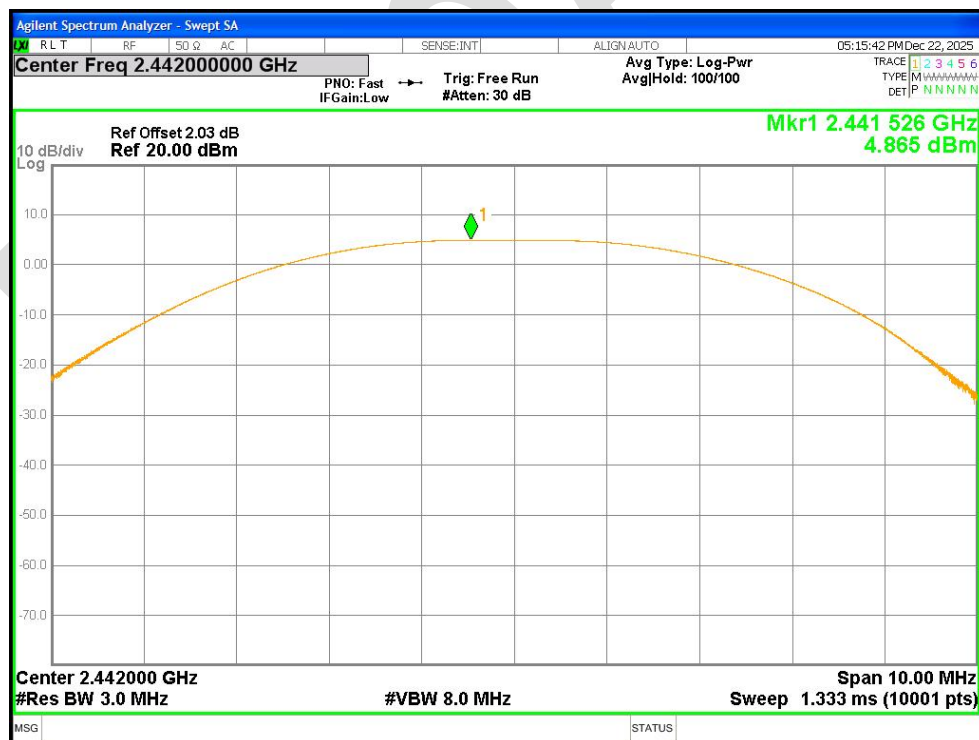
Power NVNT BLE 1M 2480MHz Ant1



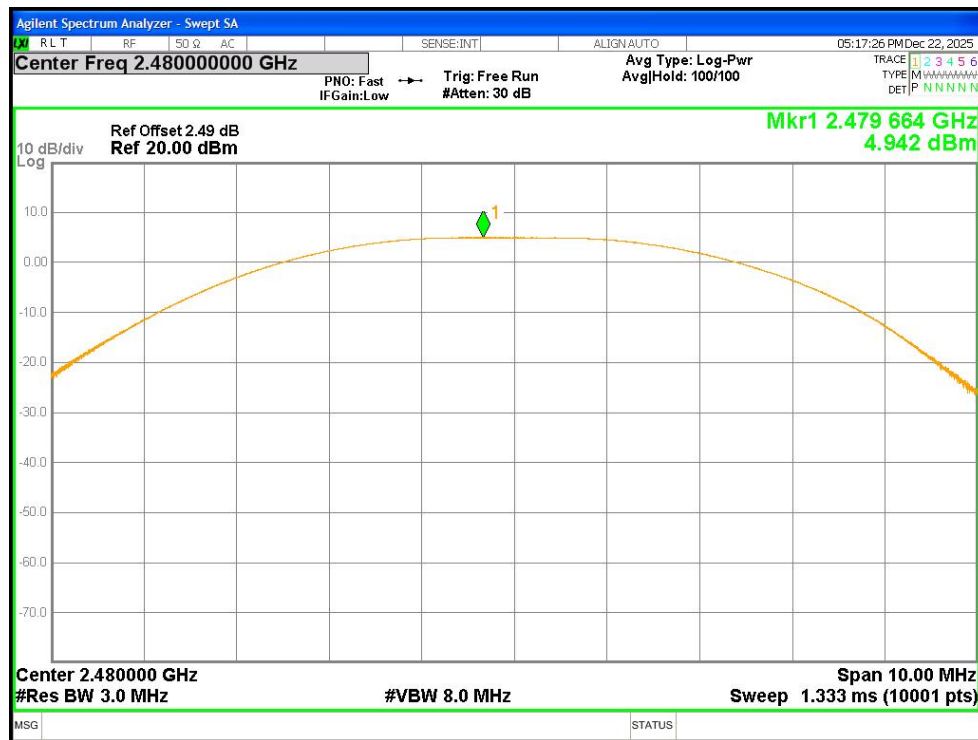
Power NVNT BLE 2M 2402MHz Ant1



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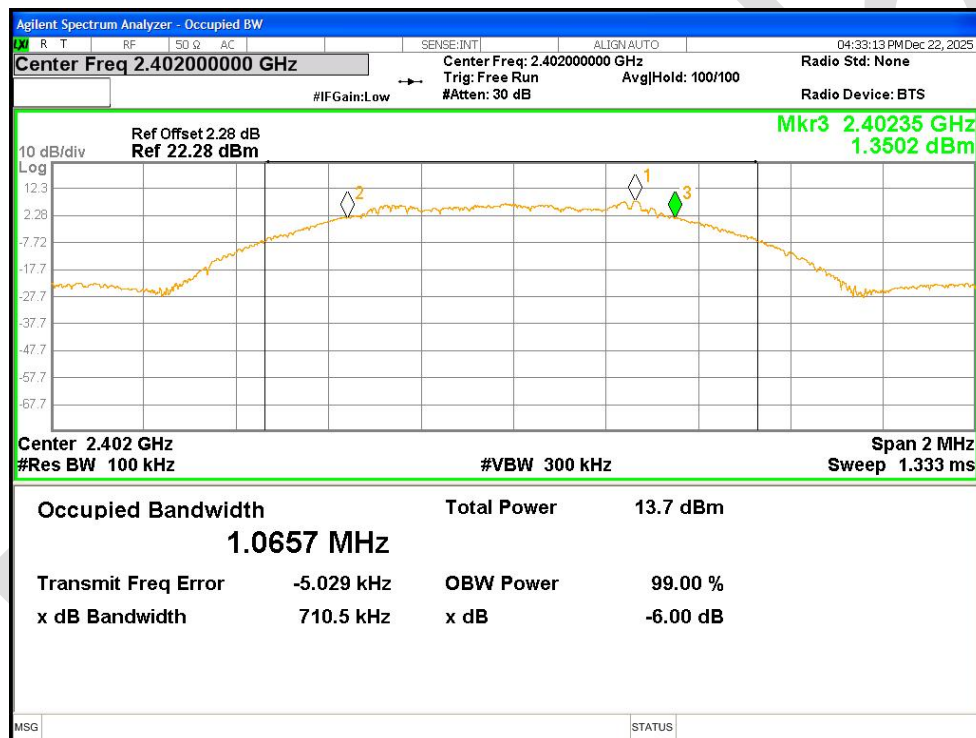
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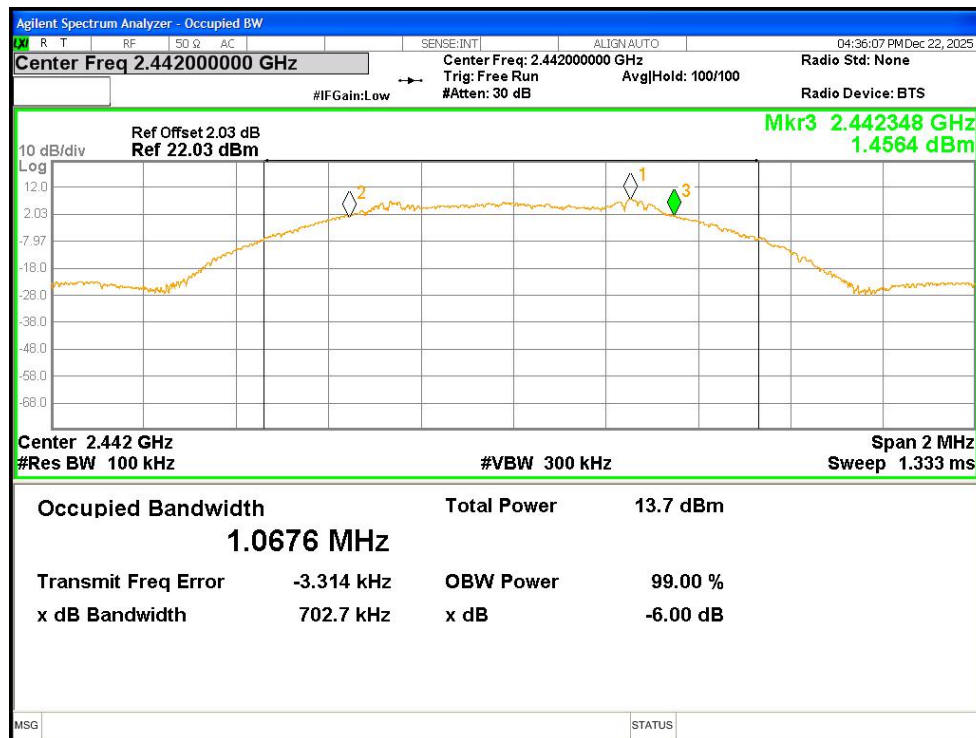
7.2 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.711	0.5	Pass
NVNT	BLE 1M	2442	Ant1	0.703	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.708	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.282	0.5	Pass
NVNT	BLE 2M	2442	Ant1	1.259	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.254	0.5	Pass

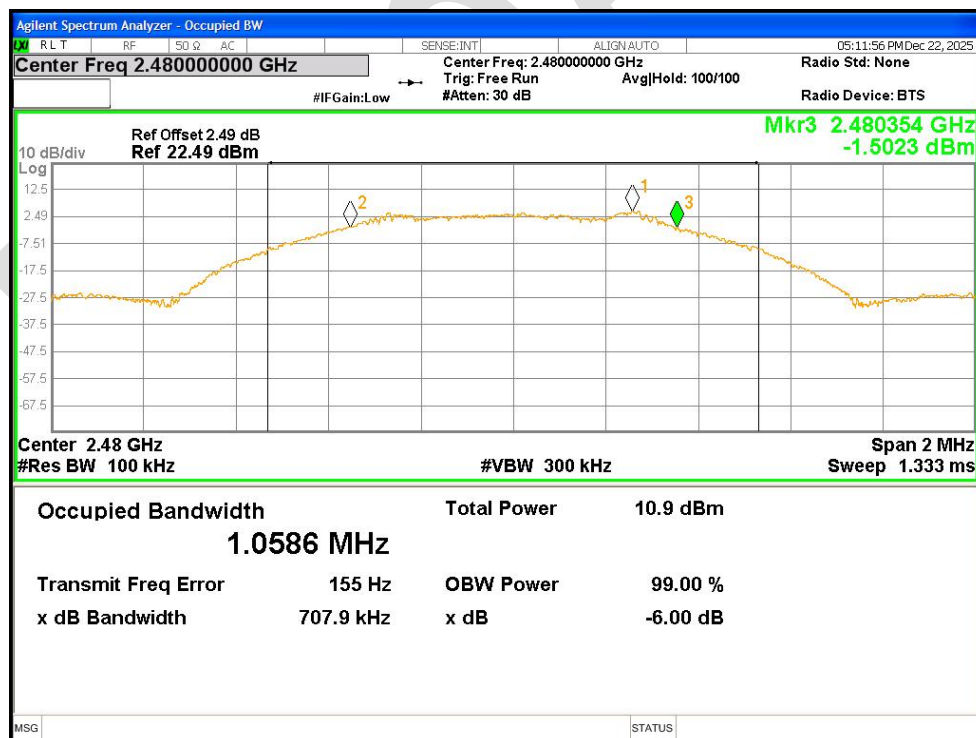
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



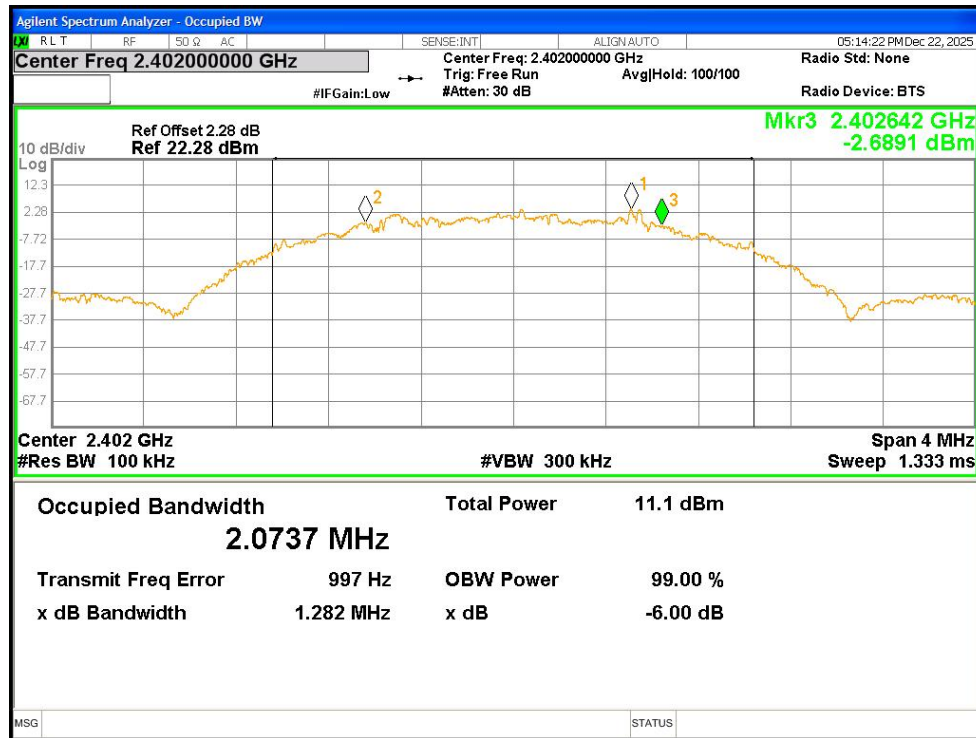
-6dB Bandwidth NVNT BLE 1M 2442MHz Ant1



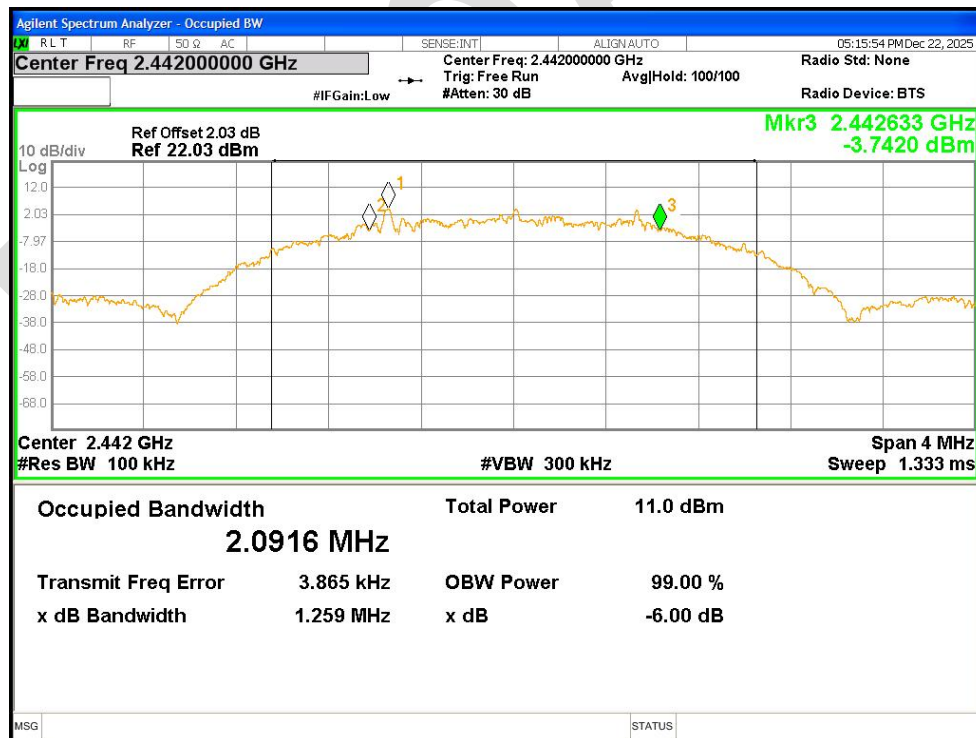
-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



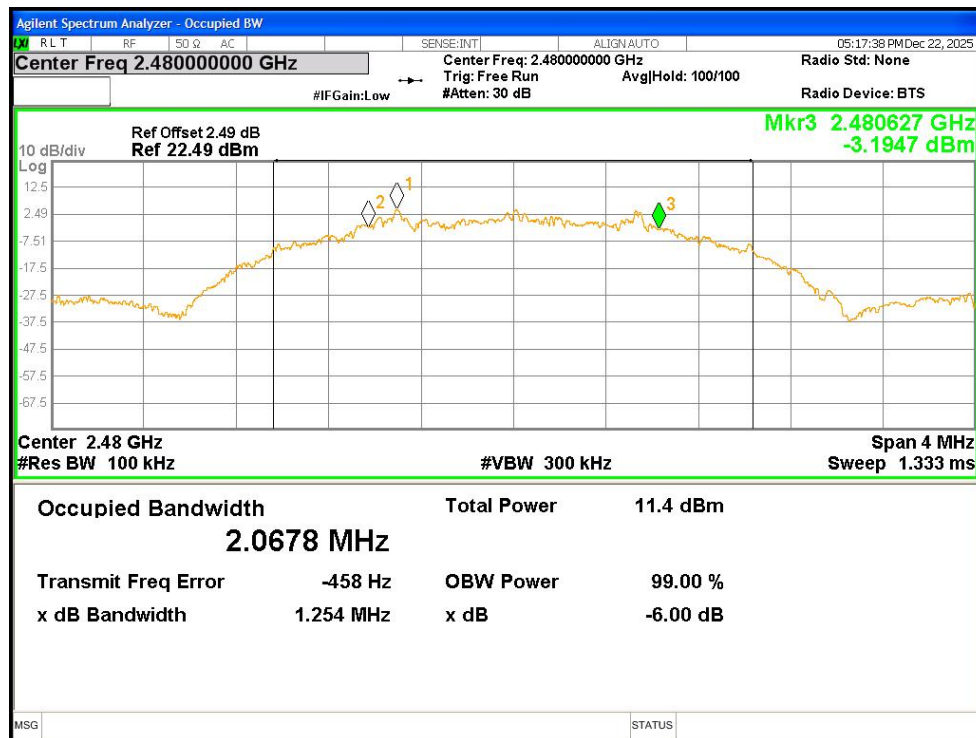
-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2442MHz Ant1



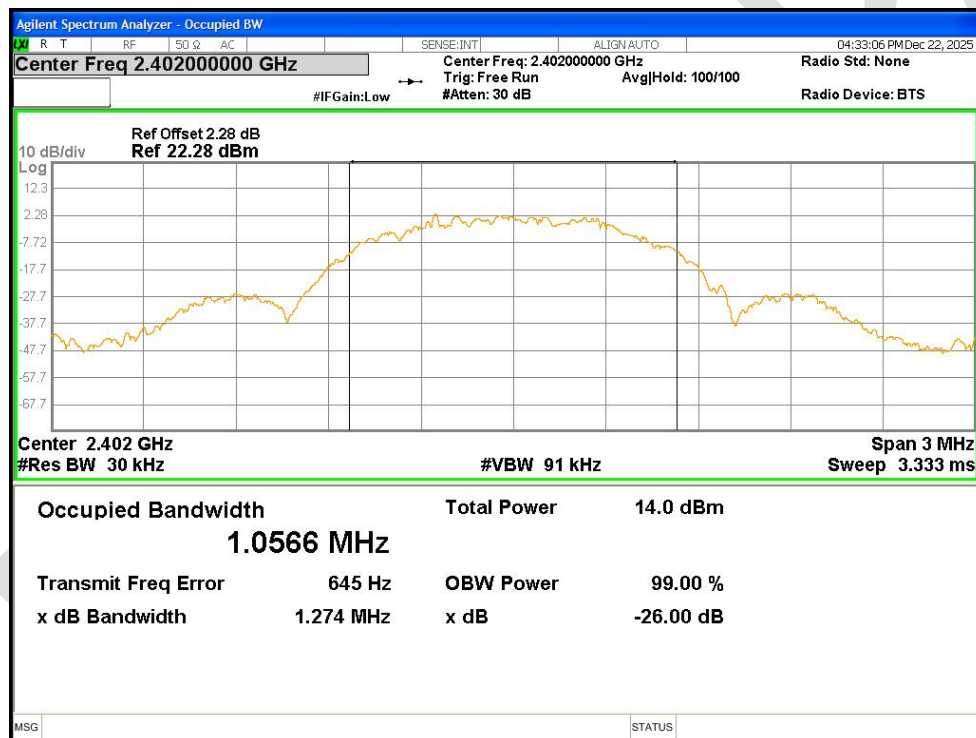
-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1



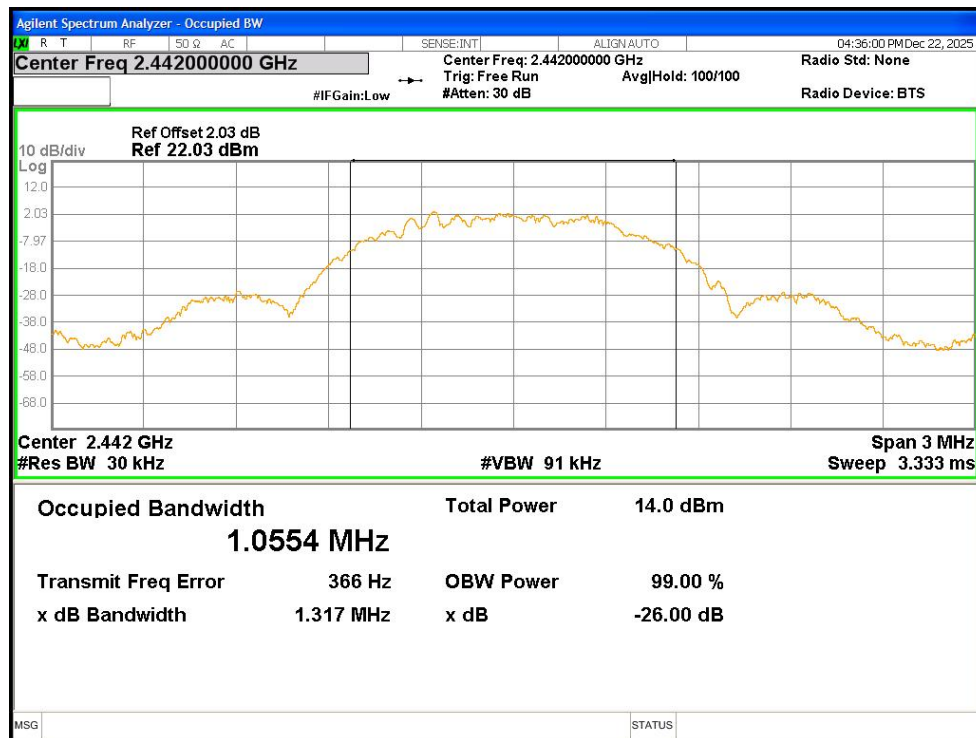
7.3 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.0566
NVNT	BLE 1M	2442	Ant1	1.0554
NVNT	BLE 1M	2480	Ant1	1.0455
NVNT	BLE 2M	2402	Ant1	2.0846
NVNT	BLE 2M	2442	Ant1	2.0814
NVNT	BLE 2M	2480	Ant1	2.0865

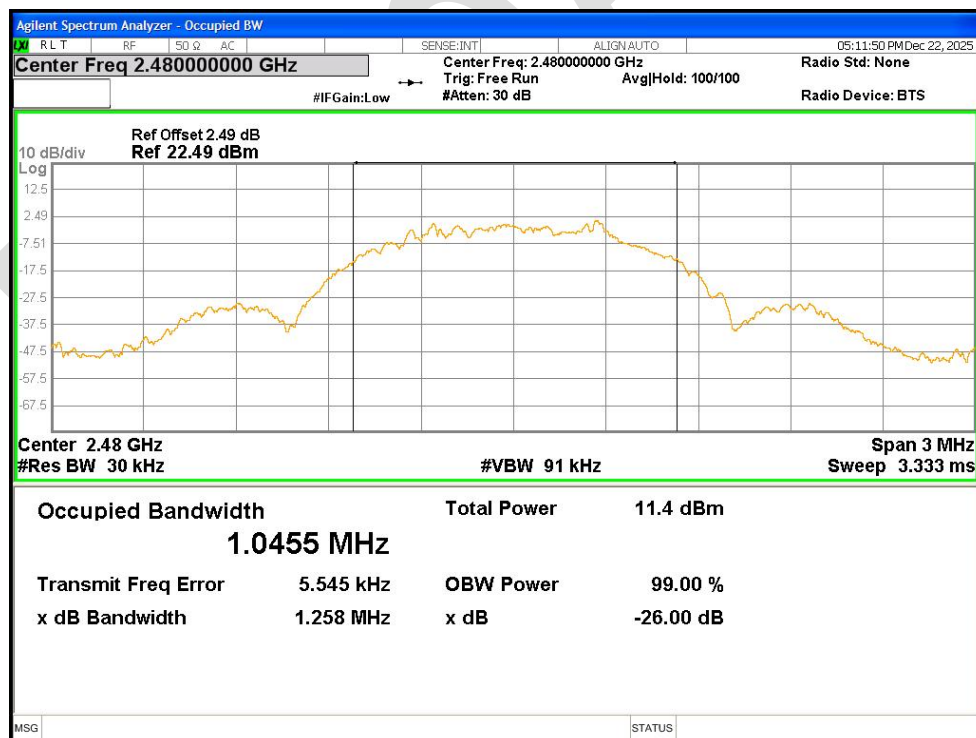
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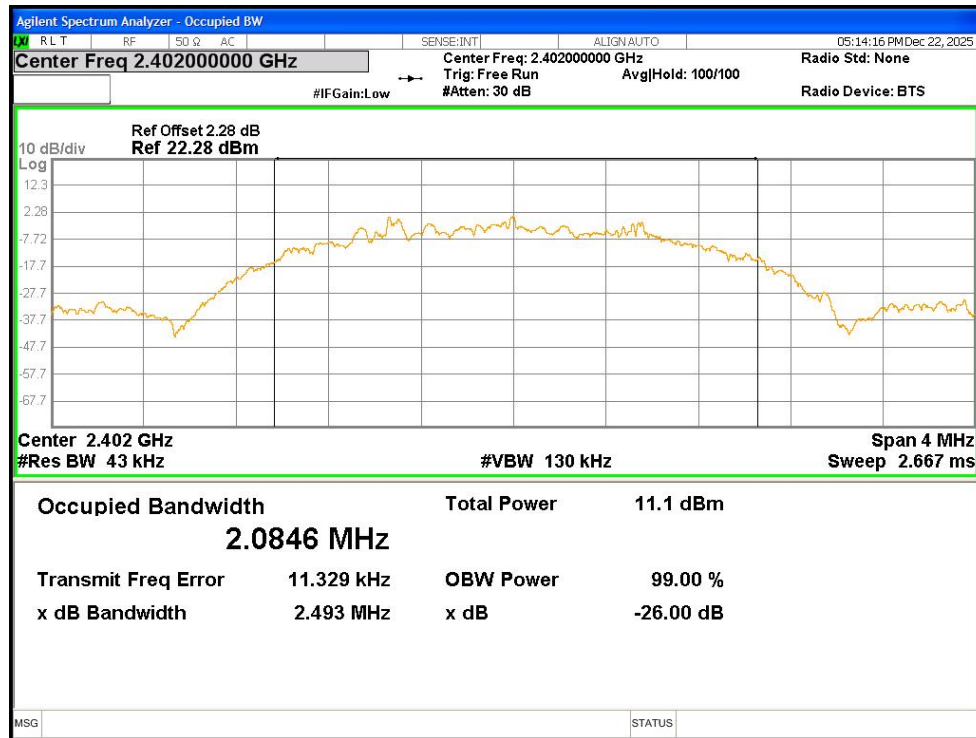
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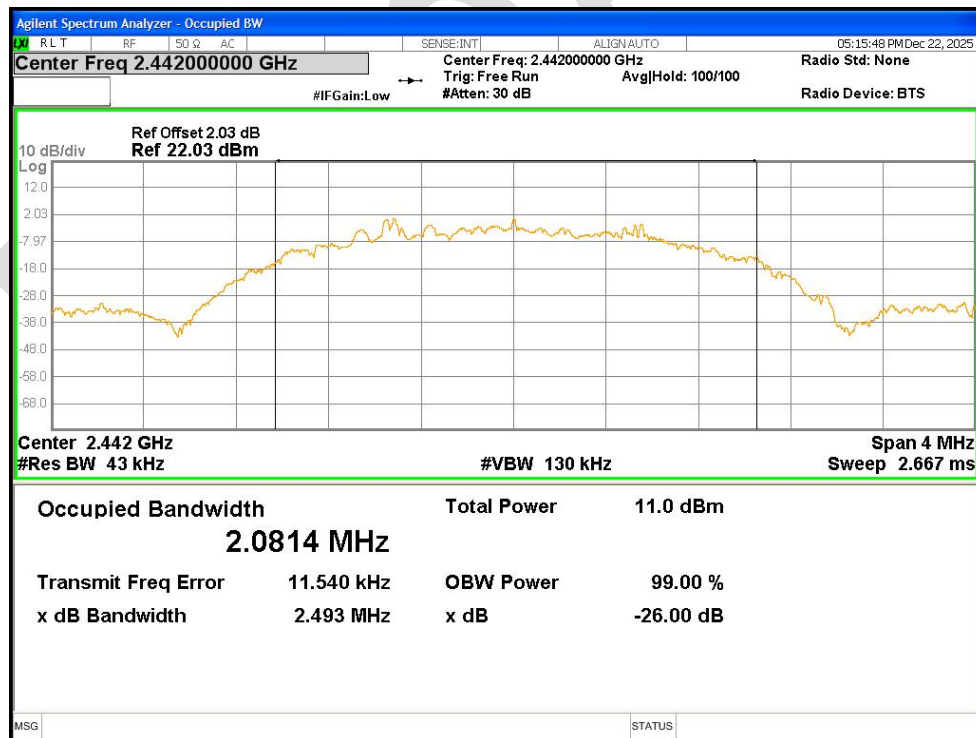
OBW NVNT BLE 1M 2480MHz Ant1



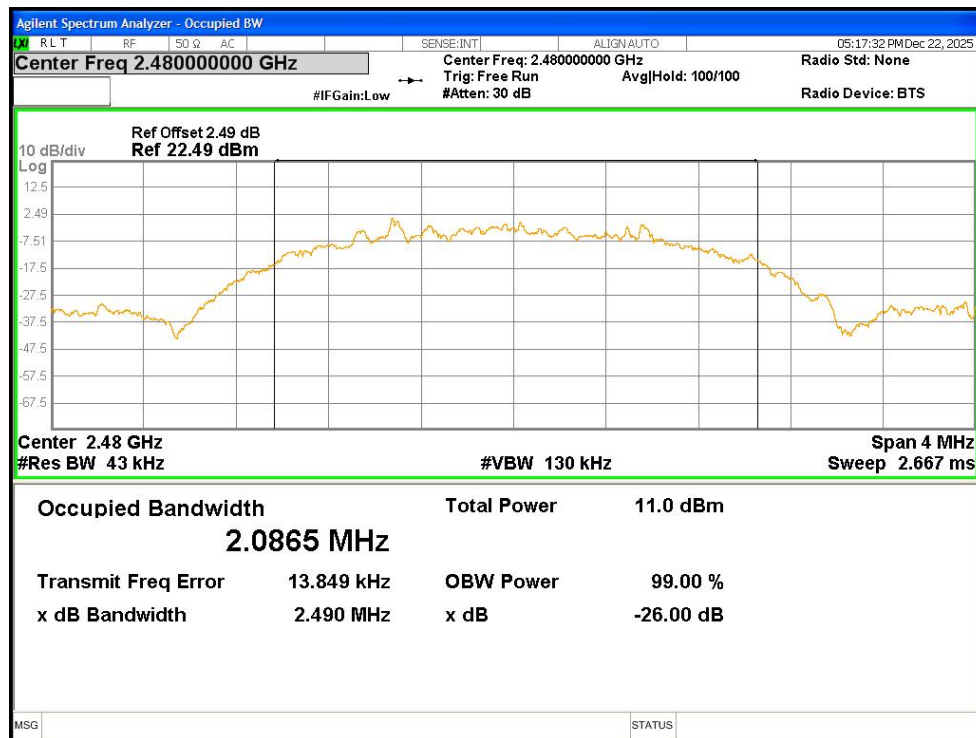
OBW NVNT BLE 2M 2402MHz Ant1



OBW NVNT BLE 2M 2442MHz Ant1



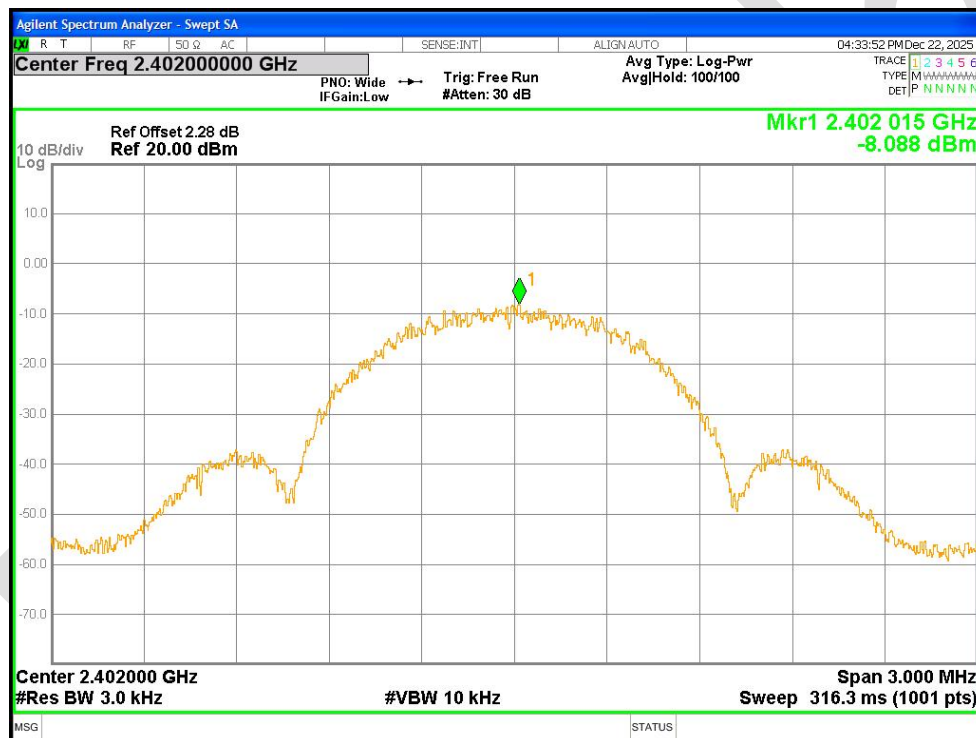
OBW NVNT BLE 2M 2480MHz Ant1



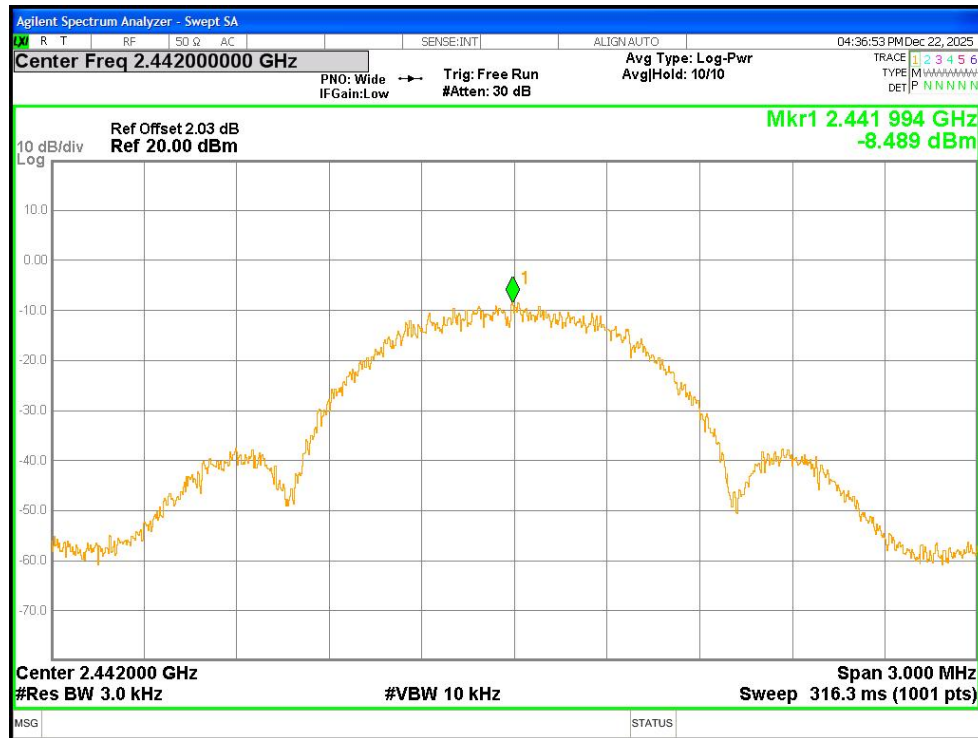
7.4 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-8.088	0	-8.088	8	Pass
NVNT	BLE 1M	2442	Ant1	-8.489	0	-8.489	8	Pass
NVNT	BLE 1M	2480	Ant1	-10.985	0	-10.985	8	Pass
NVNT	BLE 2M	2402	Ant1	-14.563	0	-14.563	8	Pass
NVNT	BLE 2M	2442	Ant1	-14.79	0	-14.79	8	Pass
NVNT	BLE 2M	2480	Ant1	-14.016	0	-14.016	8	Pass

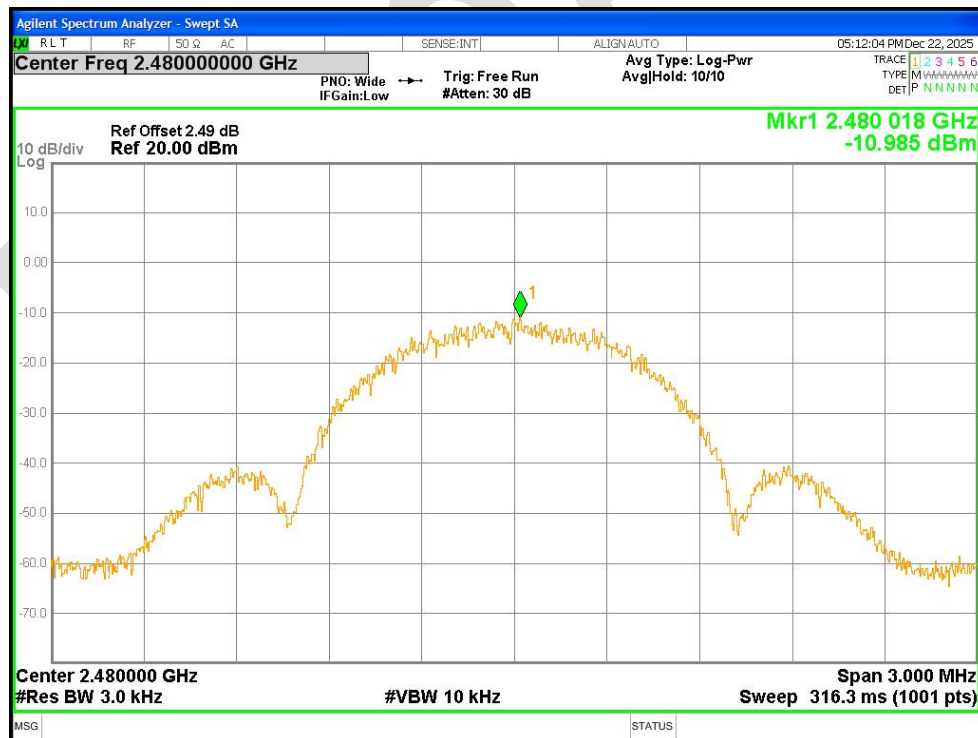
PSD NVNT BLE 1M 2402MHz Ant1



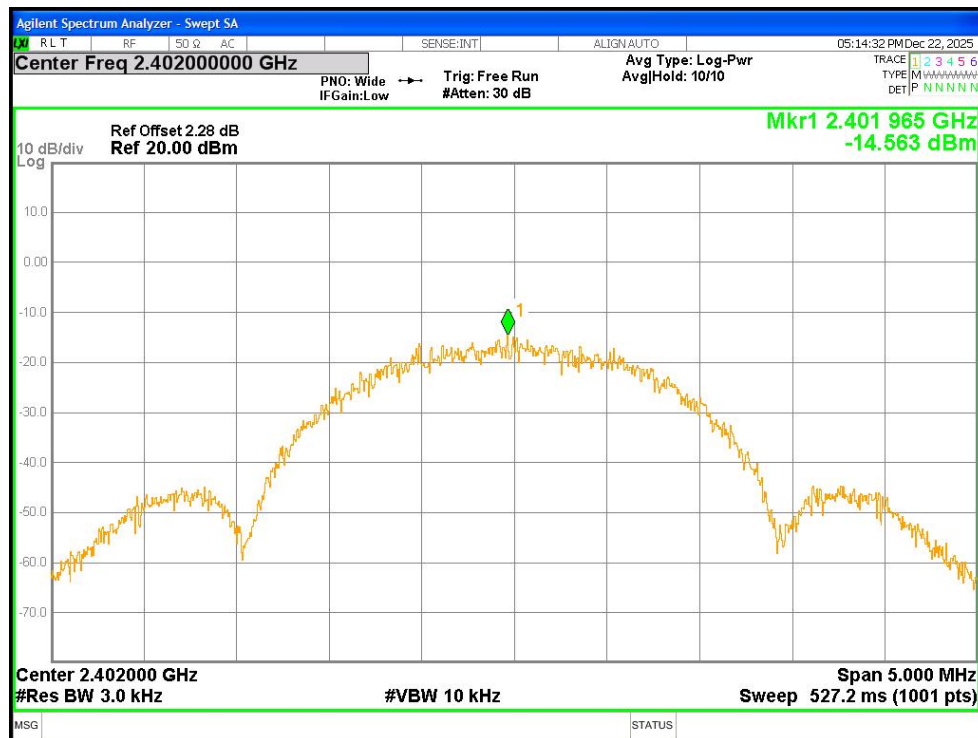
PSD NVNT BLE 1M 2442MHz Ant1



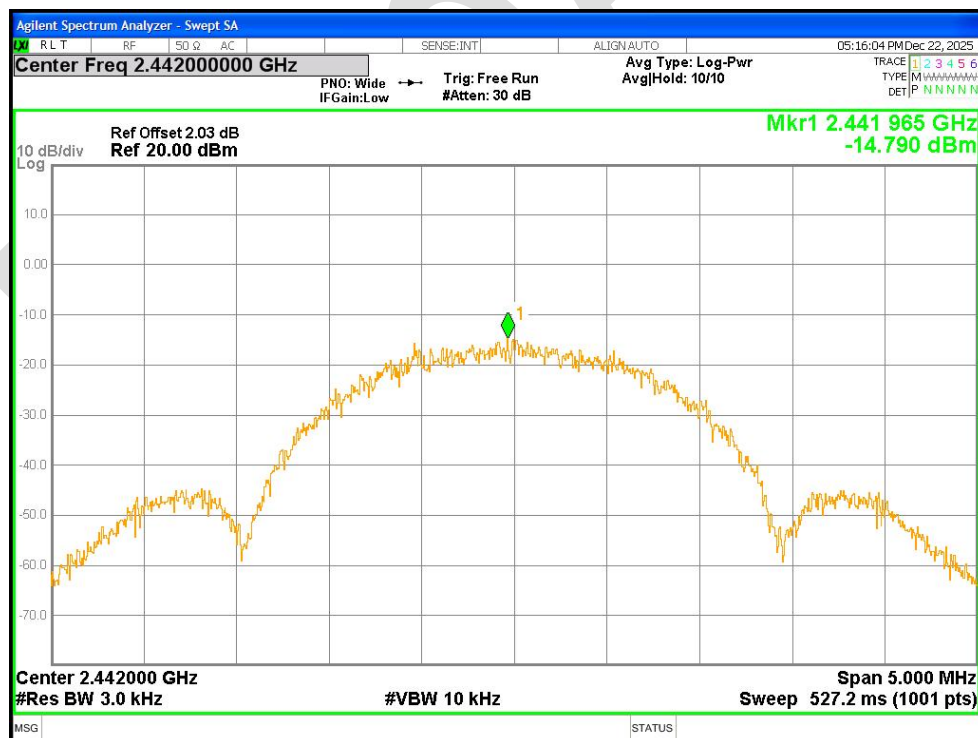
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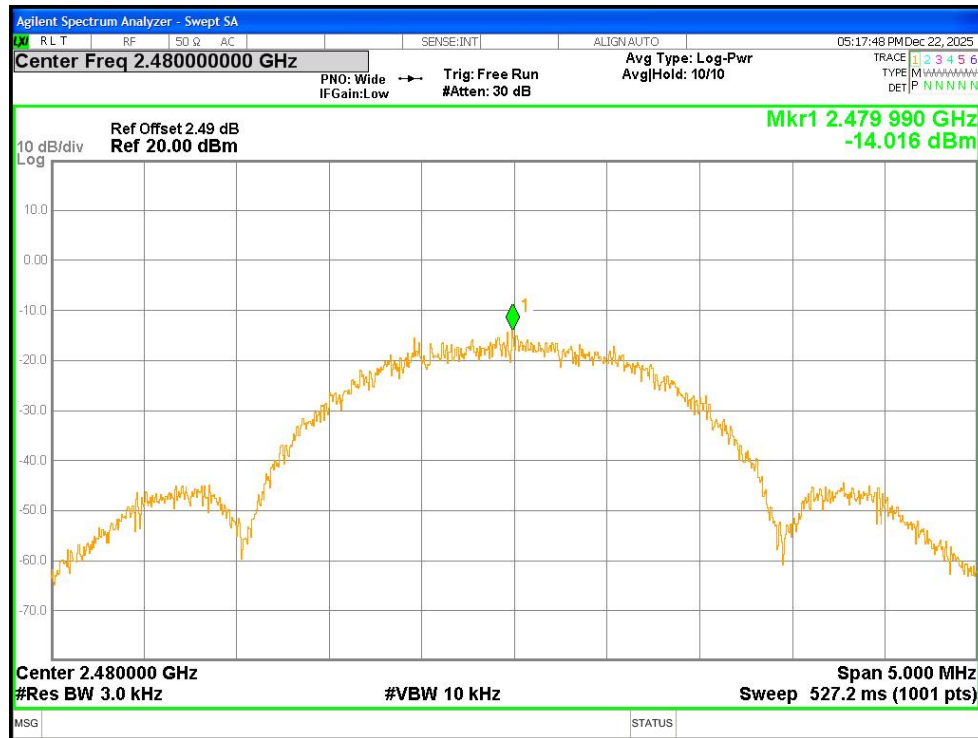
PSD NVNT BLE 2M 2402MHz Ant1



PSD NVNT BLE 2M 2442MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1



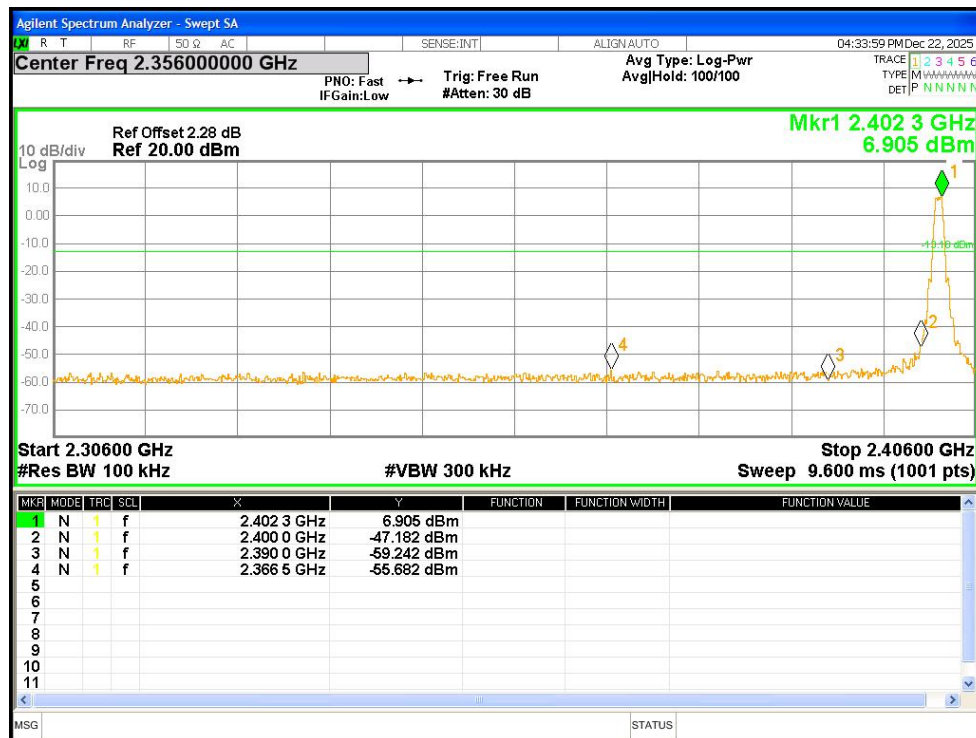
7.5 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-62.58	-20	Pass
NVNT	BLE 1M	2480	Ant1	-58.63	-20	Pass
NVNT	BLE 2M	2402	Ant1	-59.34	-20	Pass
NVNT	BLE 2M	2480	Ant1	-55.14	-20	Pass

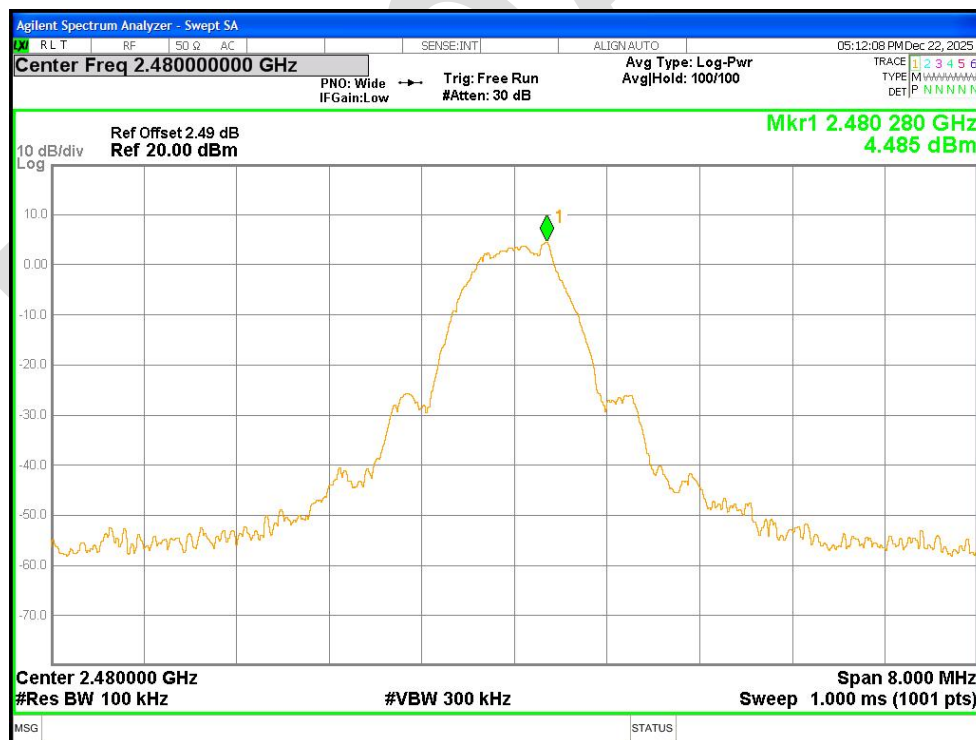
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission