



Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: GAME PANEL LIGHT

Test Model: GL1

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Wunder Wu
Supervised by:	Li Huan



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B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.499	≥ 0.5	Pass
NVNT	b	2437	Ant1	8.226	≥ 0.5	Pass
NVNT	b	2462	Ant1	8.548	≥ 0.5	Pass
NVNT	g	2412	Ant1	16.285	≥ 0.5	Pass
NVNT	g	2437	Ant1	10.682	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.271	≥ 0.5	Pass
NVNT	n20	2412	Ant1	17.592	≥ 0.5	Pass
NVNT	n20	2437	Ant1	17.184	≥ 0.5	Pass
NVNT	n20	2462	Ant1	12.619	≥ 0.5	Pass

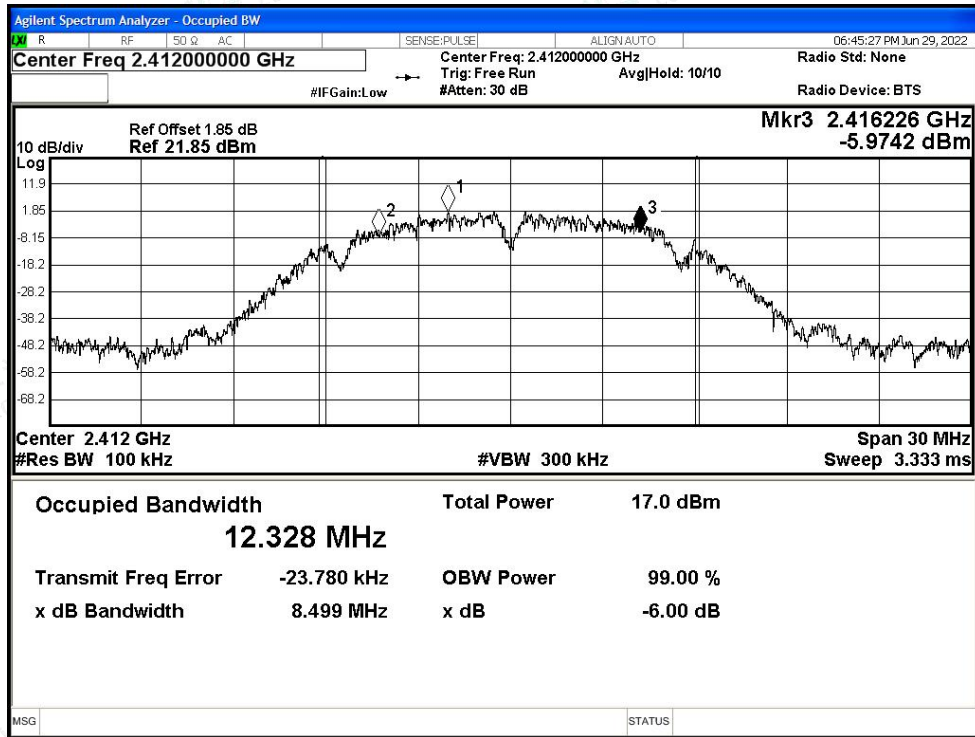


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Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

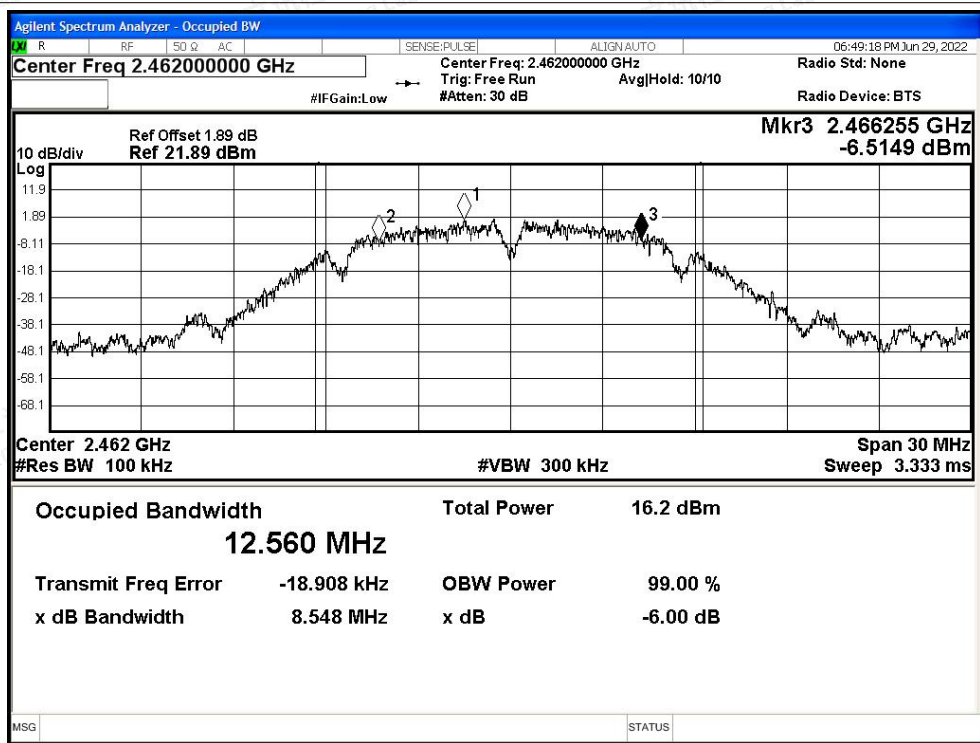


-6dB Bandwidth NVNT b 2437MHz Ant1

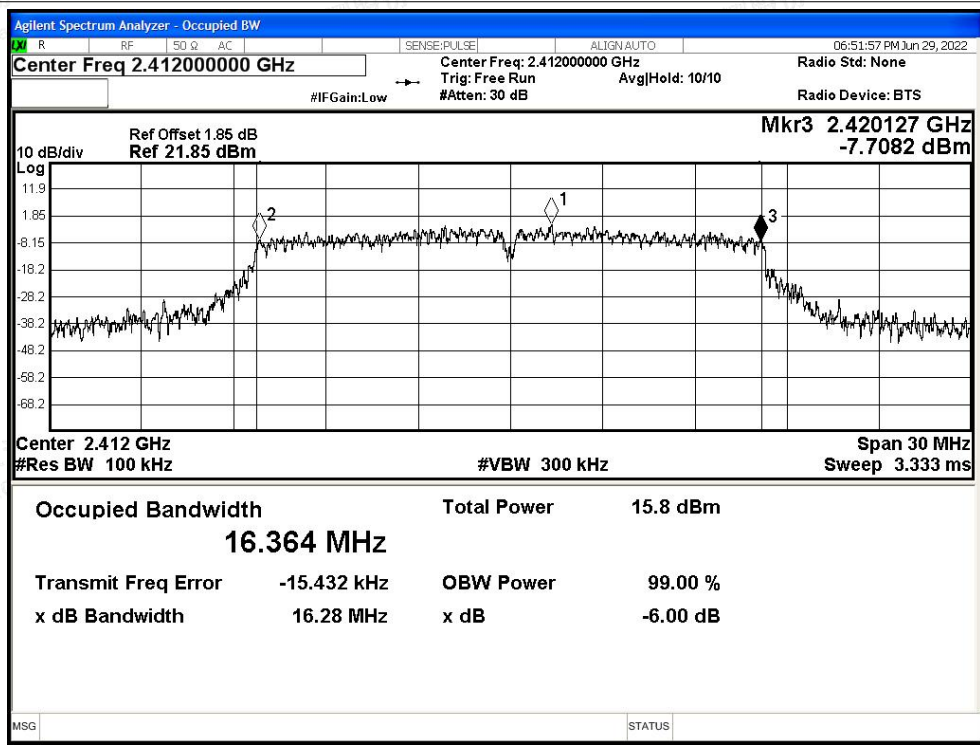




-6dB Bandwidth NVNT b 2462MHz Ant1

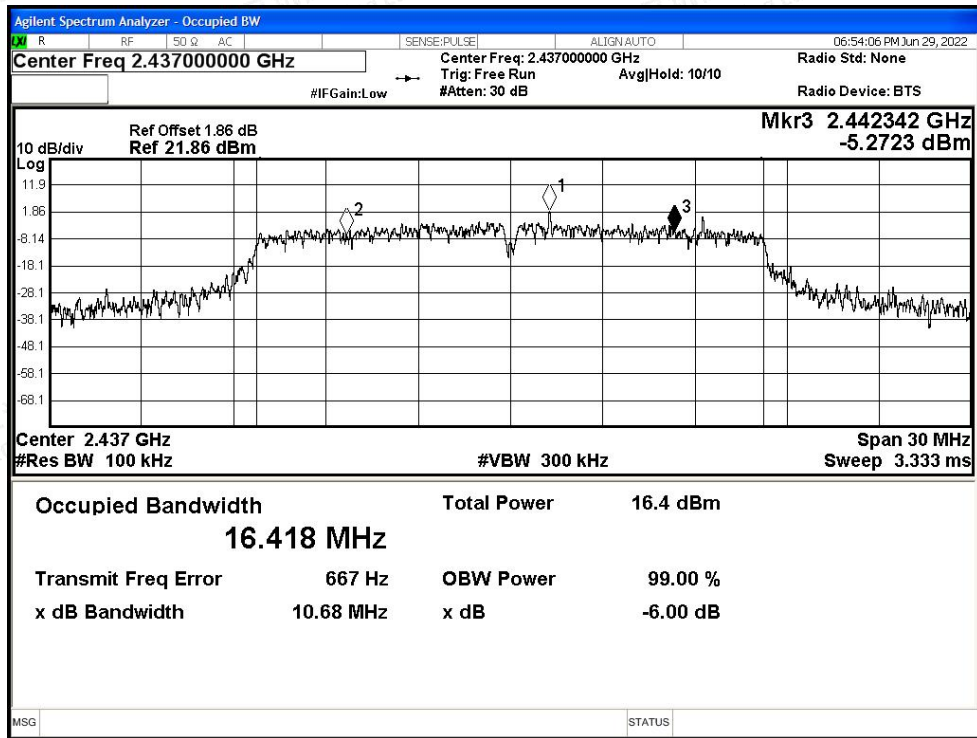


-6dB Bandwidth NVNT g 2412MHz Ant1

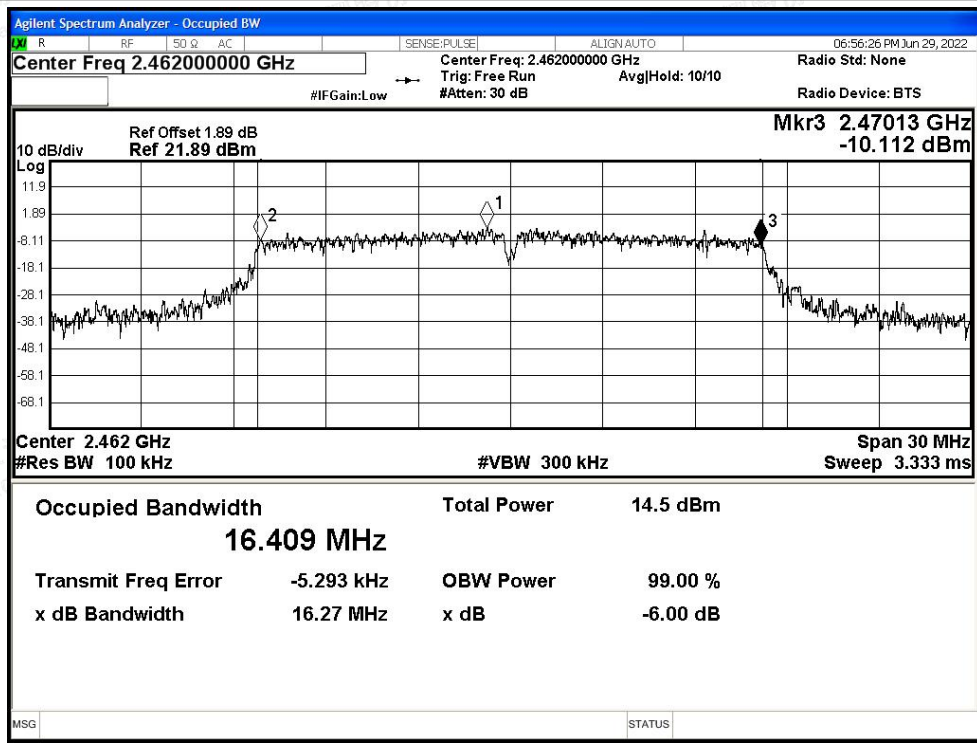




-6dB Bandwidth NVNT g 2437MHz Ant1

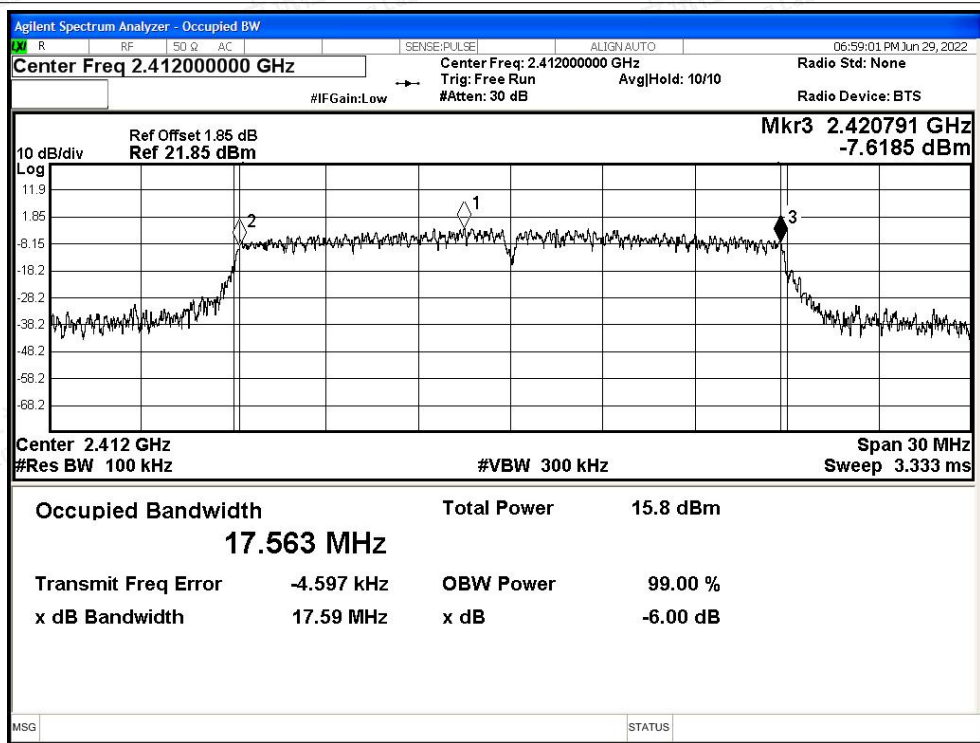


-6dB Bandwidth NVNT g 2462MHz Ant1

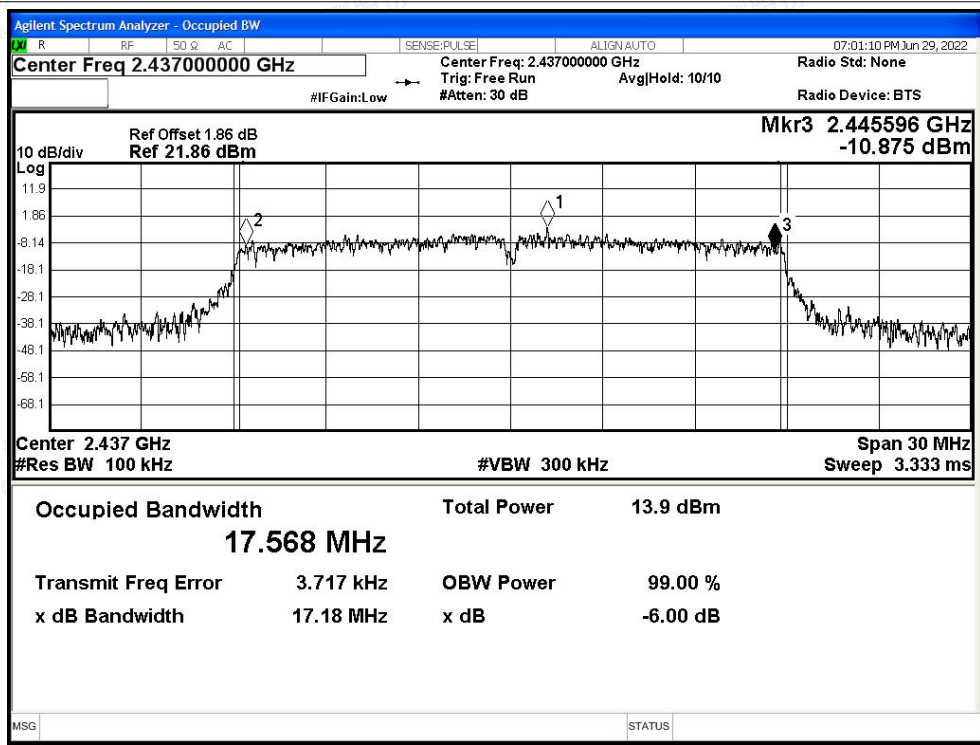


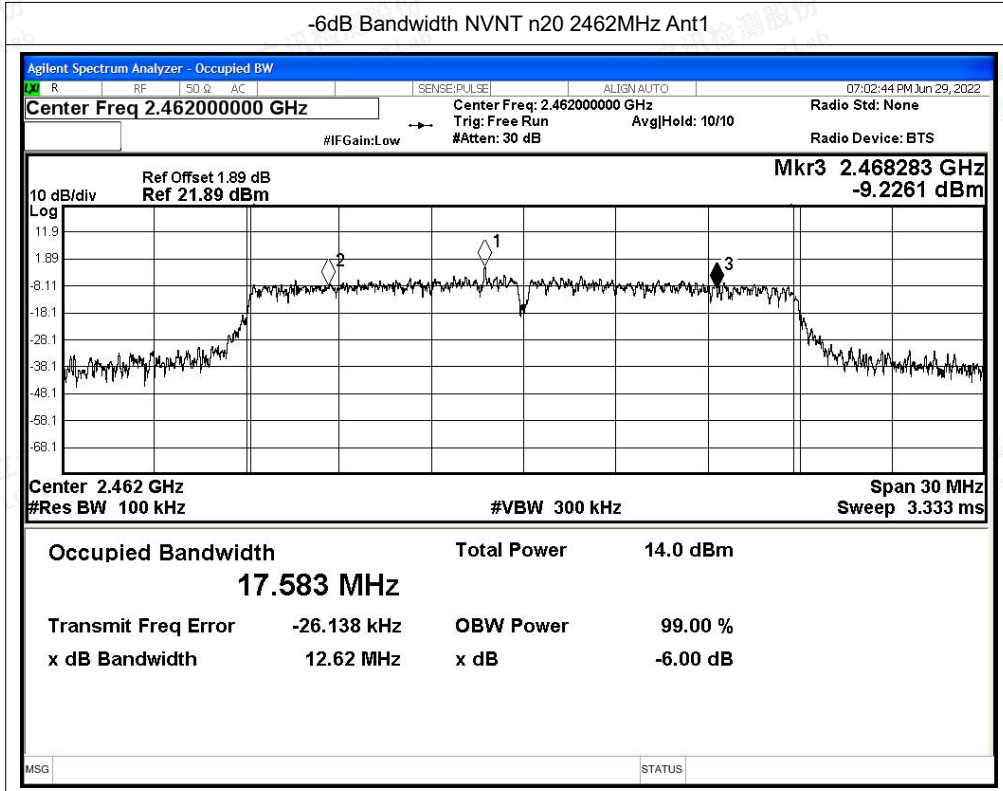


-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1







B.2 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.413
NVNT	b	2437	Ant1	12.58
NVNT	b	2462	Ant1	12.744
NVNT	g	2412	Ant1	16.431
NVNT	g	2437	Ant1	16.544
NVNT	g	2462	Ant1	16.525
NVNT	n20	2412	Ant1	17.556
NVNT	n20	2437	Ant1	17.584
NVNT	n20	2462	Ant1	17.634

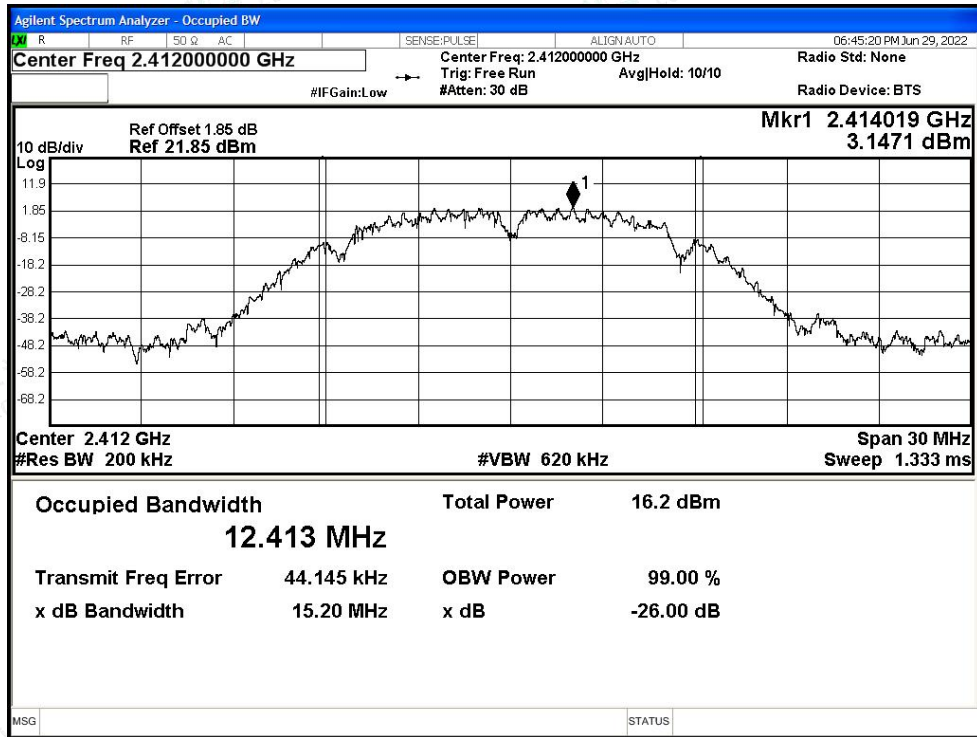


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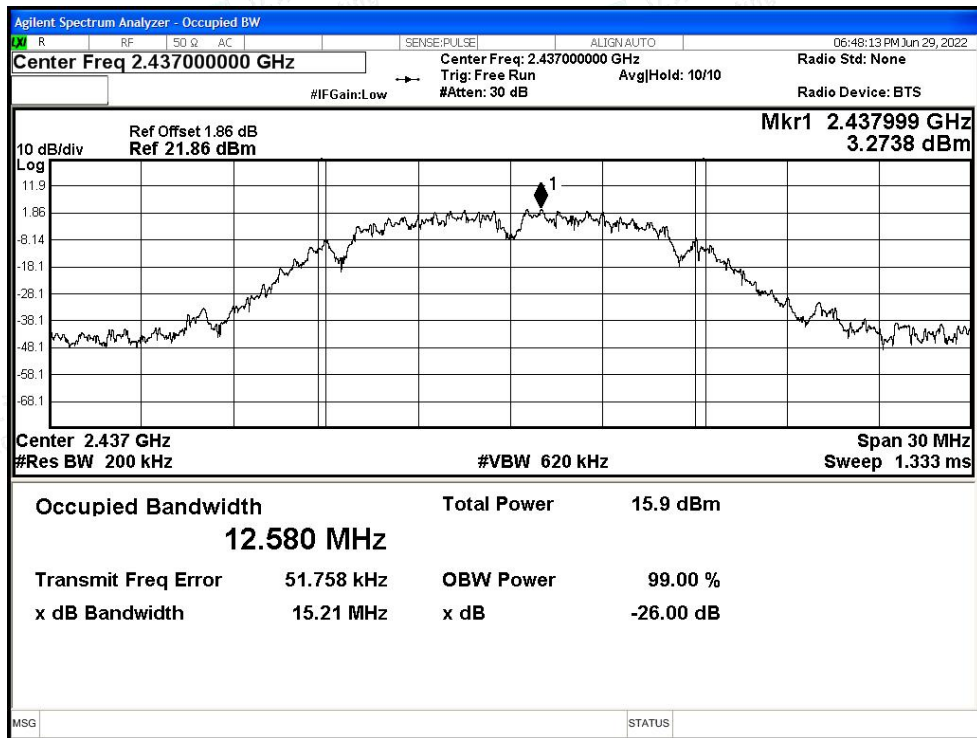


Test Graphs

OBW NVNT b 2412MHz Ant1



OBW NVNT b 2437MHz Ant1

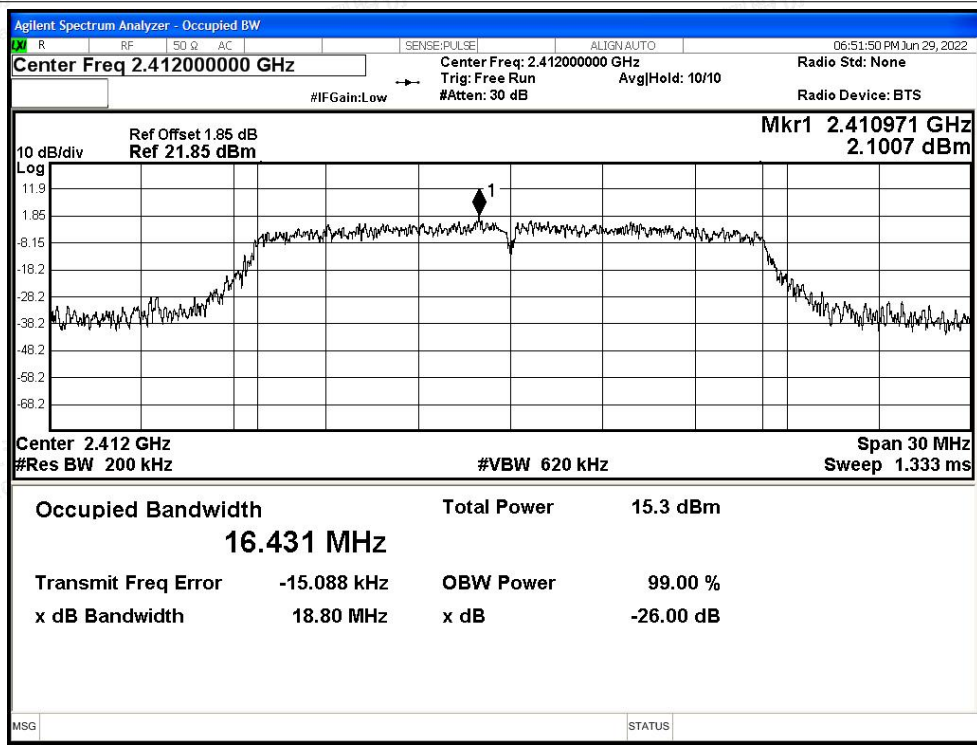




OBW NVNT b 2462MHz Ant1

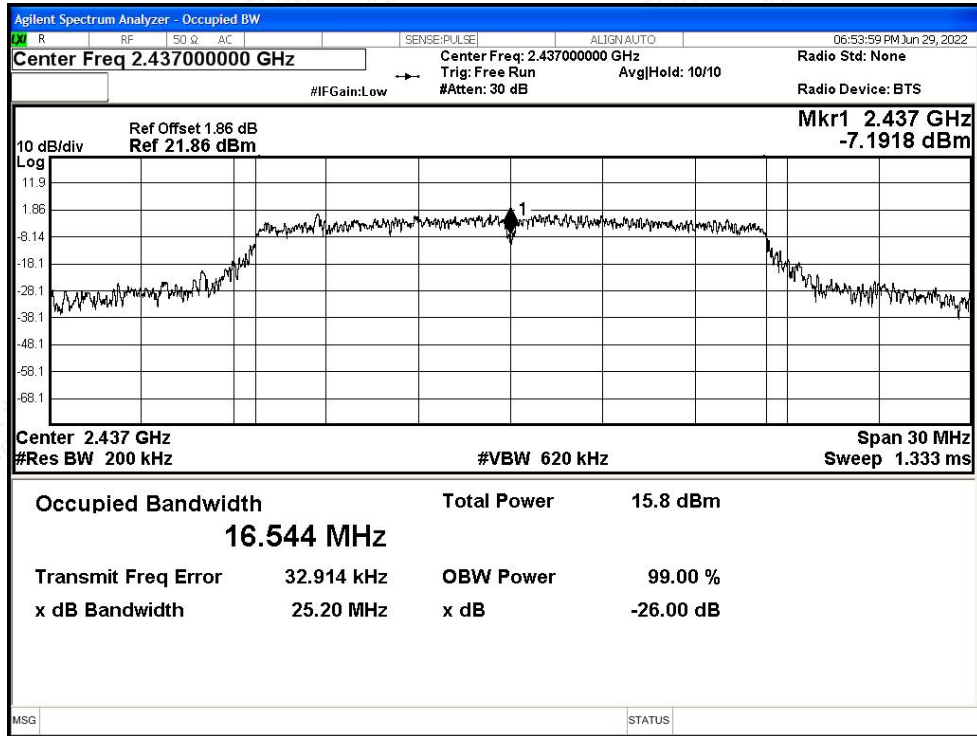


OBW NVNT g 2412MHz Ant1

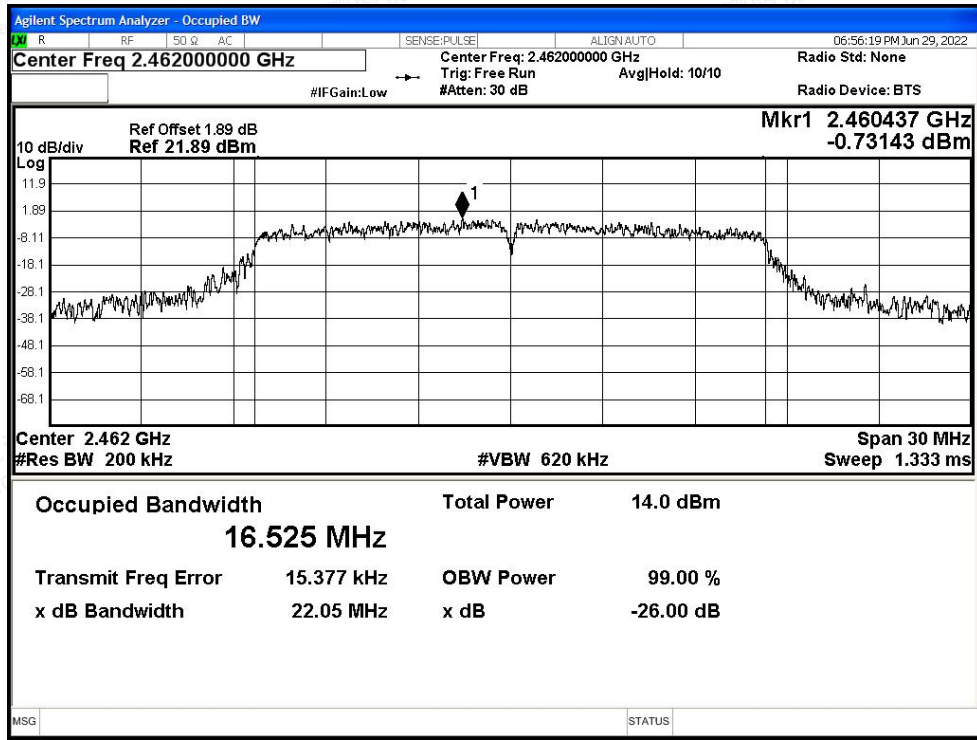




OBW NVNT g 2437MHz Ant1

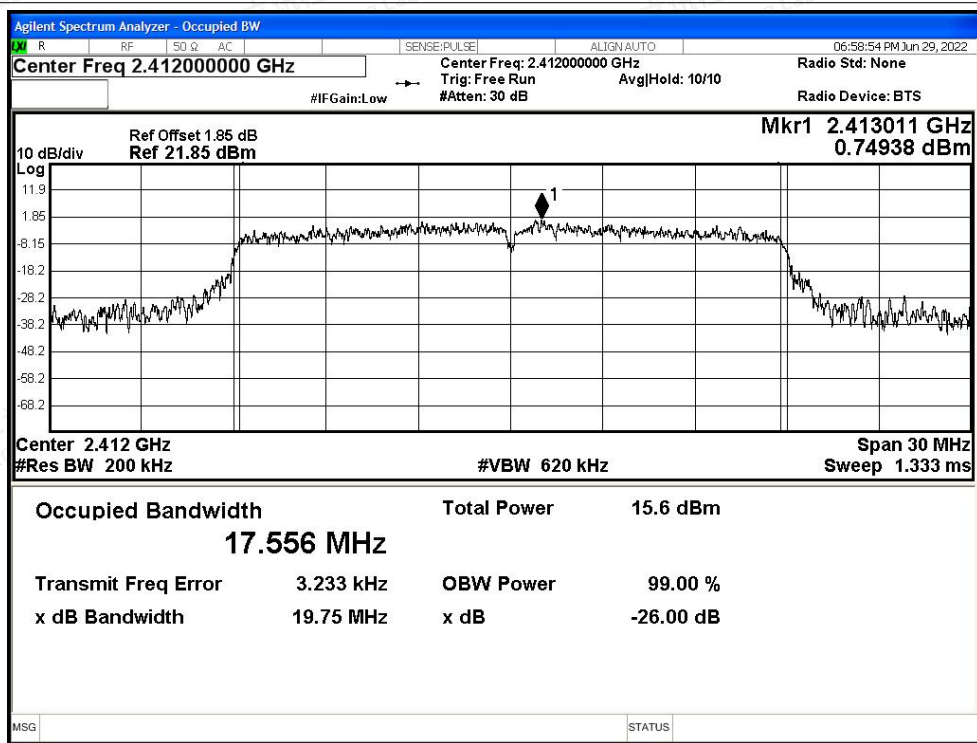


OBW NVNT g 2462MHz Ant1

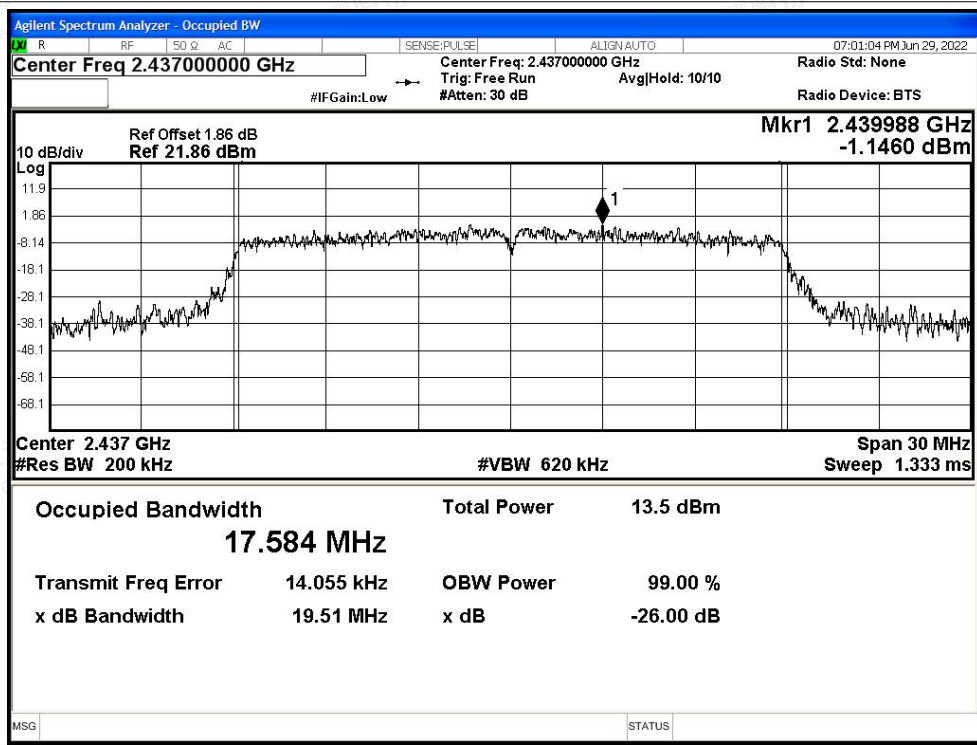


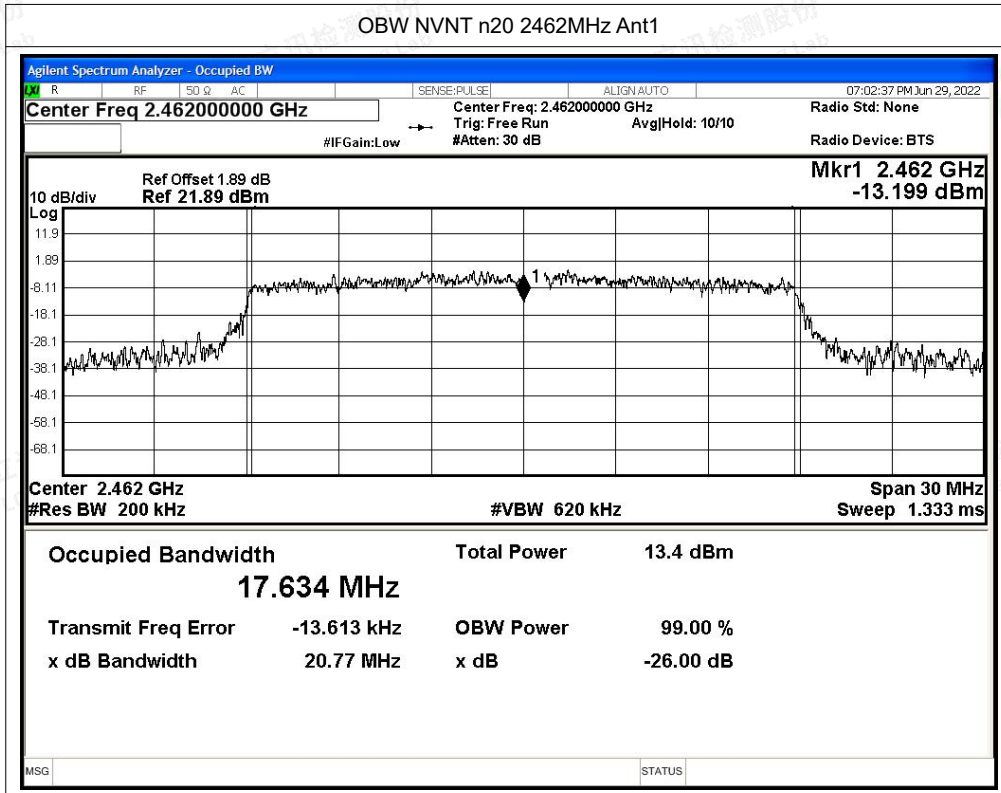


OBW NVNT n20 2412MHz Ant1



OBW NVNT n20 2437MHz Ant1







B.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	13.46	30	Pass
NVNT	b	2437	Ant1	13.15	30	Pass
NVNT	b	2462	Ant1	12.75	30	Pass
NVNT	g	2412	Ant1	13.46	30	Pass
NVNT	g	2437	Ant1	12.56	30	Pass
NVNT	g	2462	Ant1	11.8	30	Pass
NVNT	n20	2412	Ant1	12.49	30	Pass
NVNT	n20	2437	Ant1	12.59	30	Pass
NVNT	n20	2462	Ant1	12.07	30	Pass



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B.4 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-10.67	8	Pass
NVNT	b	2437	Ant1	-10.76	8	Pass
NVNT	b	2462	Ant1	-11.78	8	Pass
NVNT	g	2412	Ant1	-13.38	8	Pass
NVNT	g	2437	Ant1	-15.13	8	Pass
NVNT	g	2462	Ant1	-15.18	8	Pass
NVNT	n20	2412	Ant1	-15.77	8	Pass
NVNT	n20	2437	Ant1	-14.12	8	Pass
NVNT	n20	2462	Ant1	-18.25	8	Pass

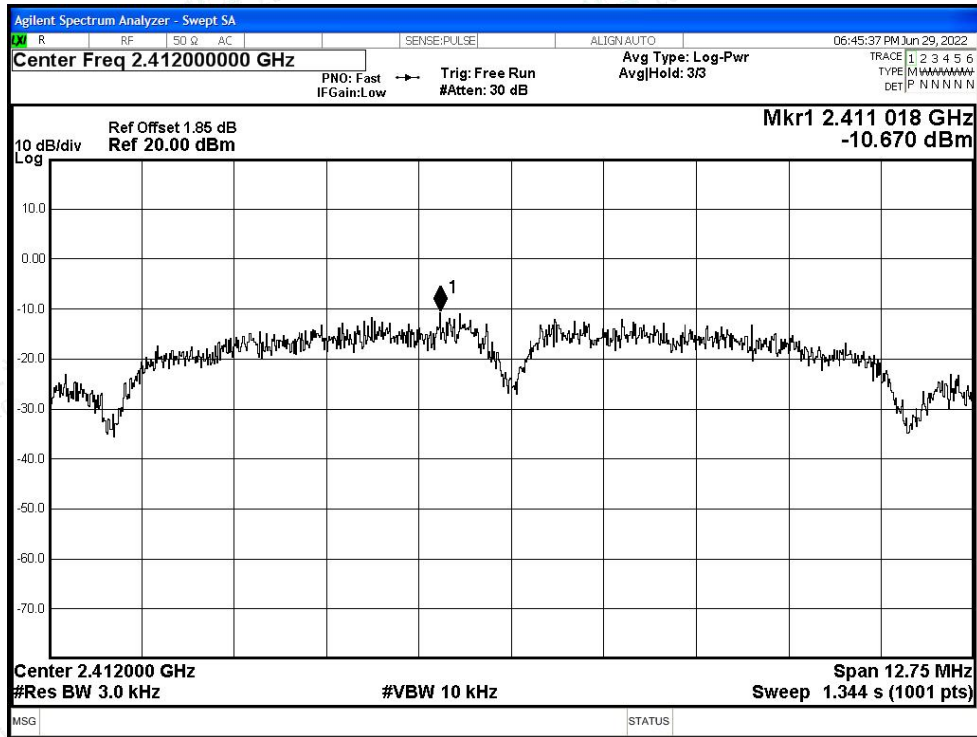


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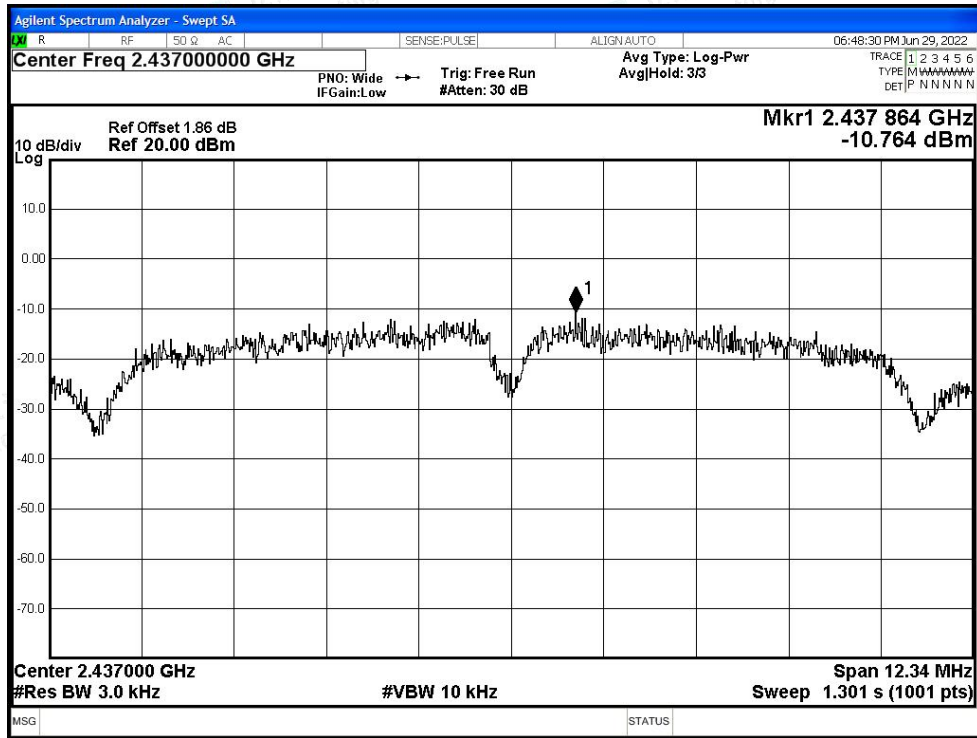


Test Graphs

PSD NVNT b 2412MHz Ant1

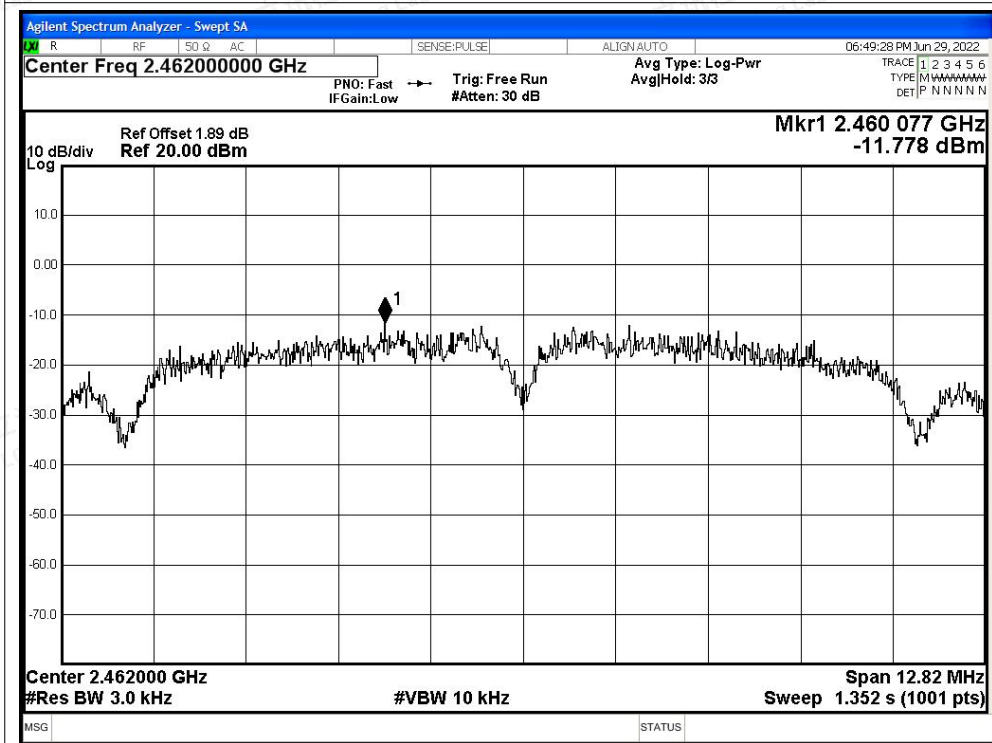


PSD NVNT b 2437MHz Ant1

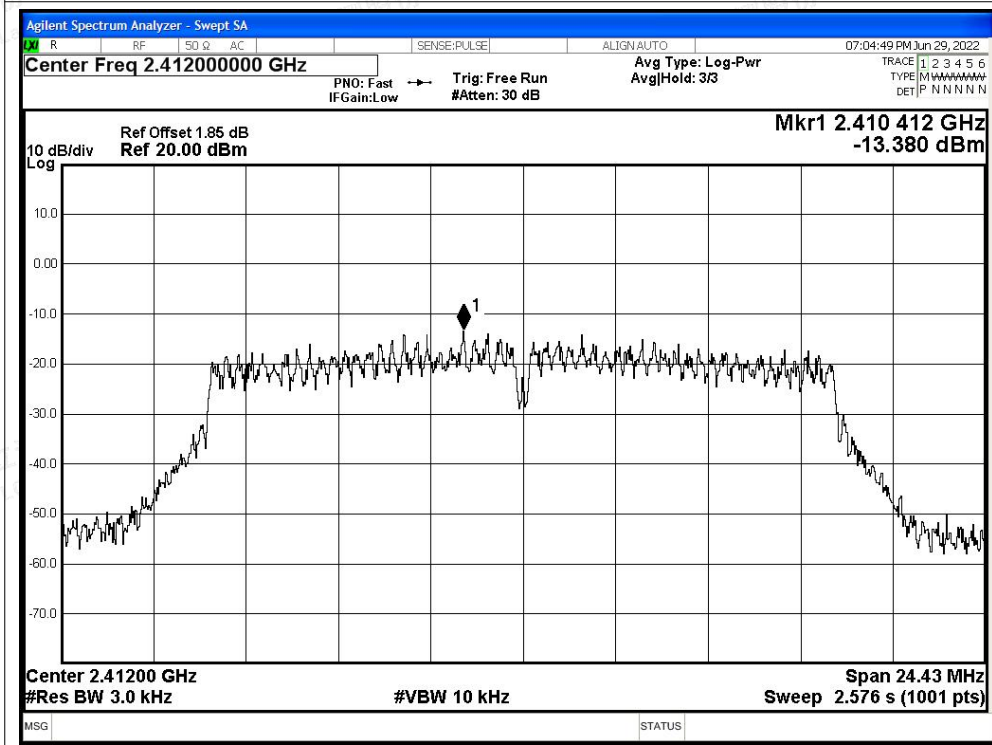




PSD NVNT b 2462MHz Ant1

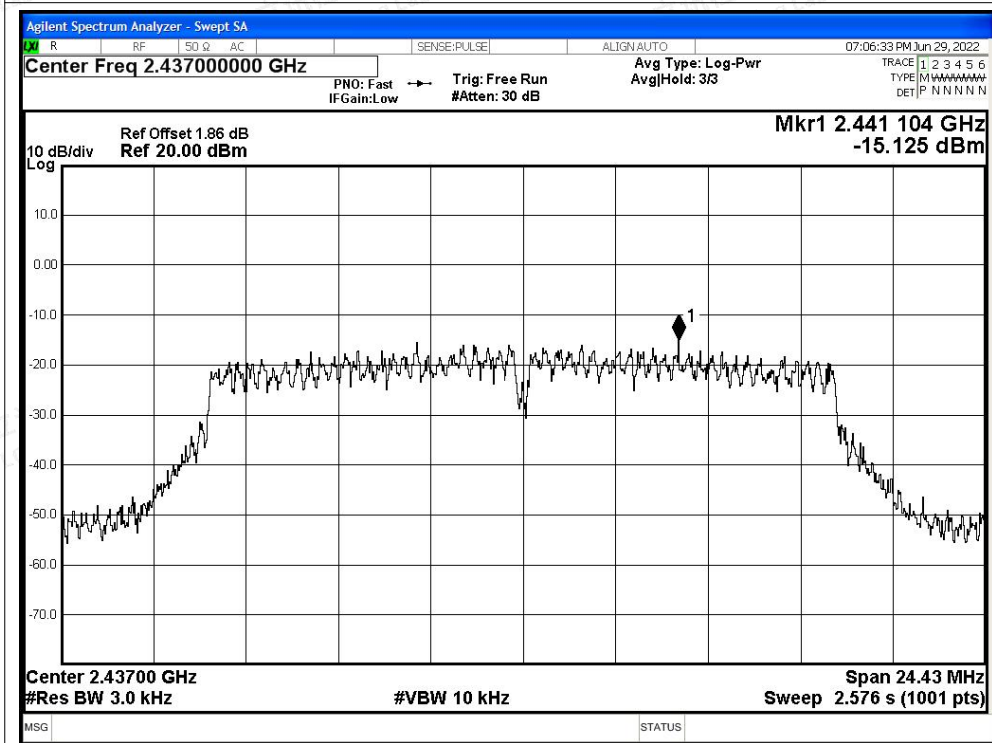


PSD NVNT g 2412MHz Ant1

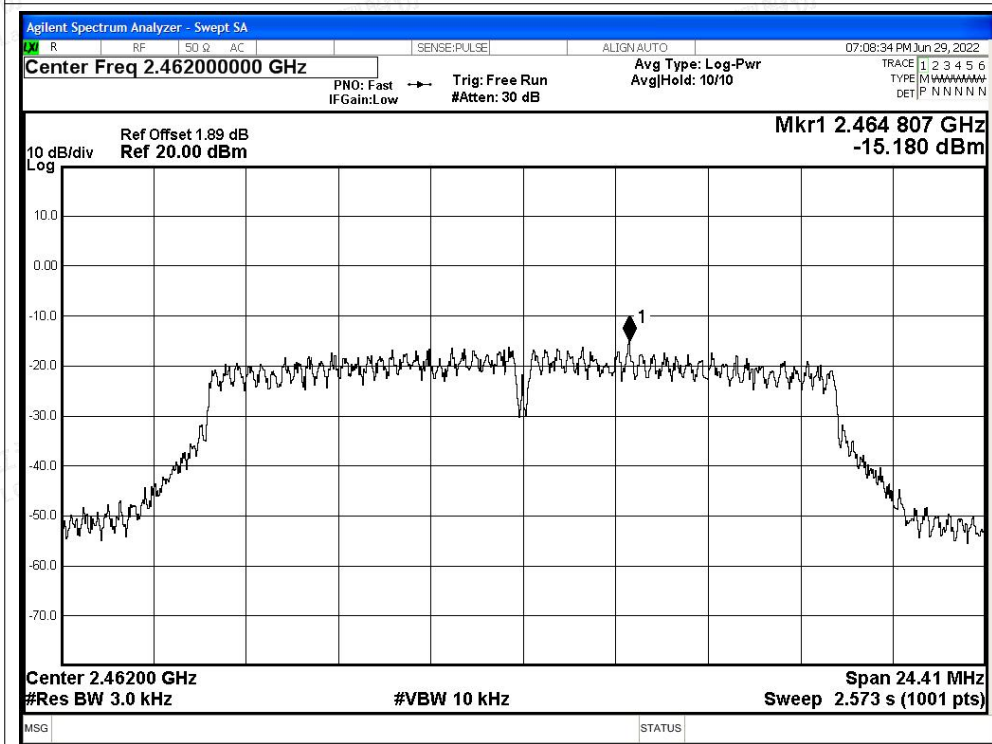




PSD NVNT g 2437MHz Ant1

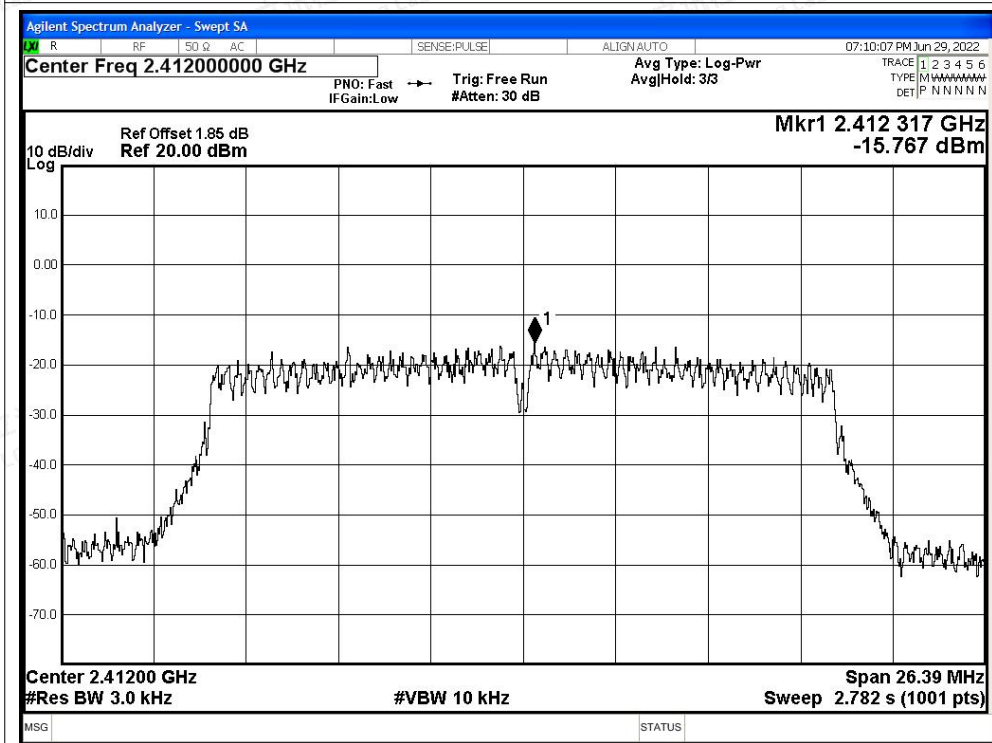


PSD NVNT g 2462MHz Ant1

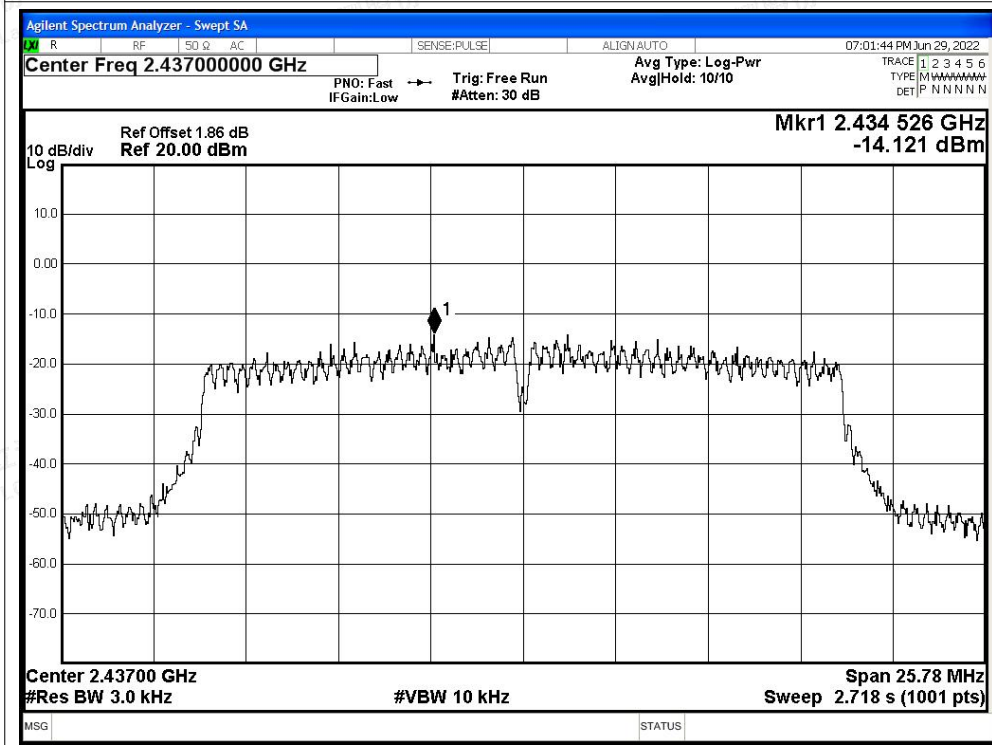


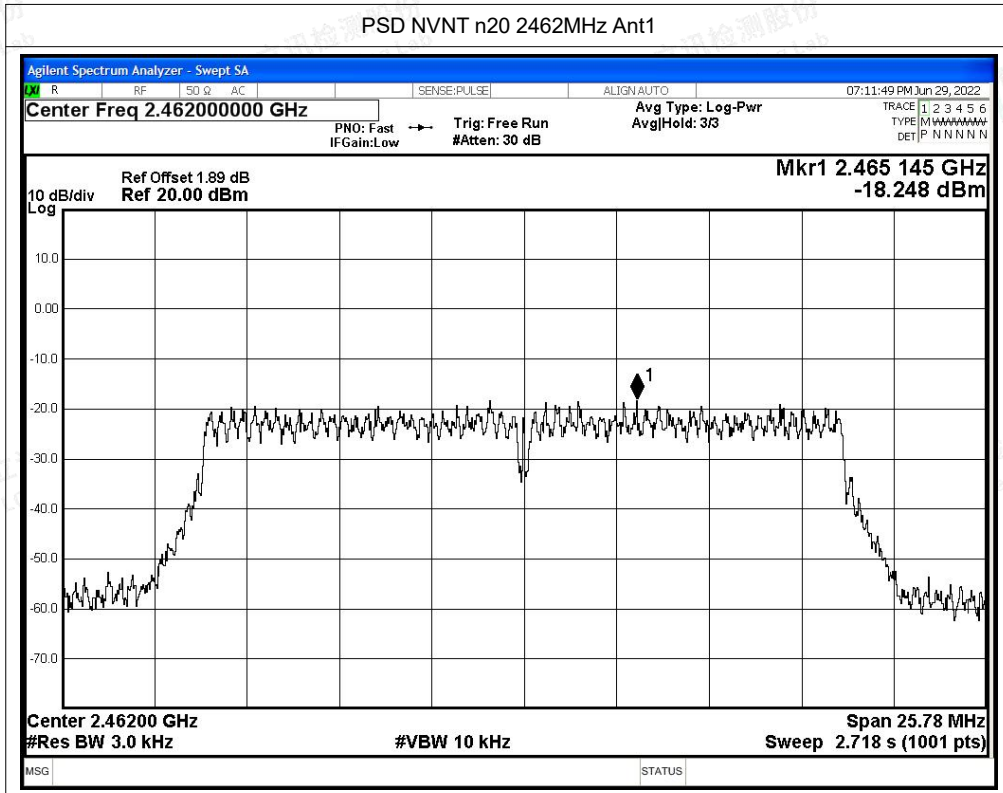


PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1





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B.5 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.86	-20	Pass
NVNT	b	2462	Ant1	-59.05	-20	Pass
NVNT	g	2412	Ant1	-35.42	-20	Pass
NVNT	g	2462	Ant1	-46.5	-20	Pass
NVNT	n20	2412	Ant1	-33.52	-20	Pass
NVNT	n20	2462	Ant1	-43.18	-20	Pass

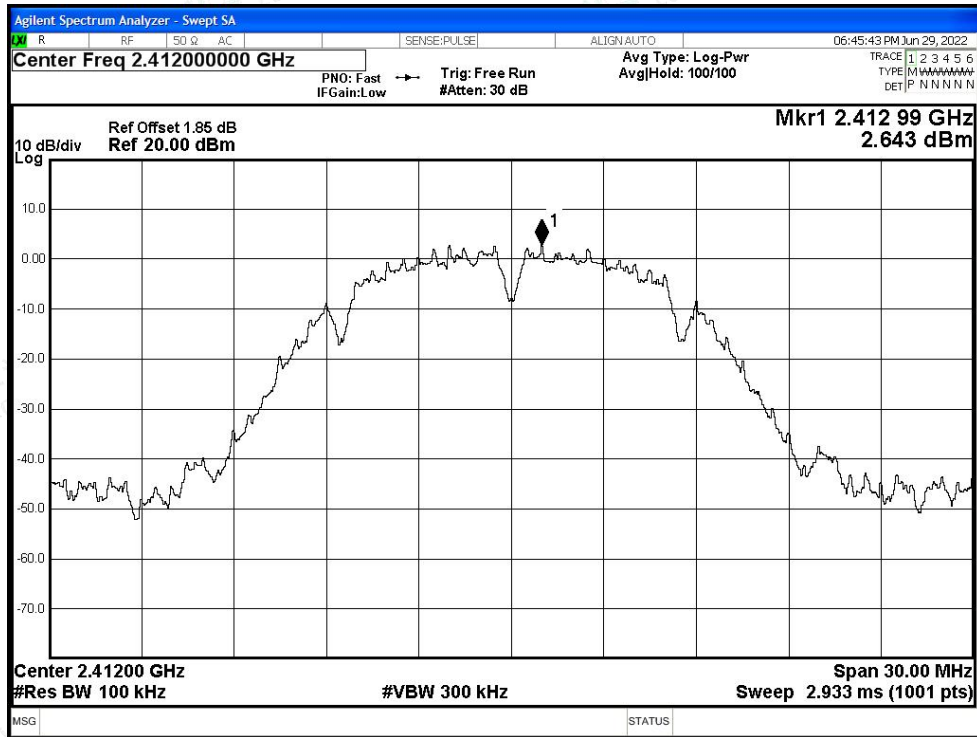


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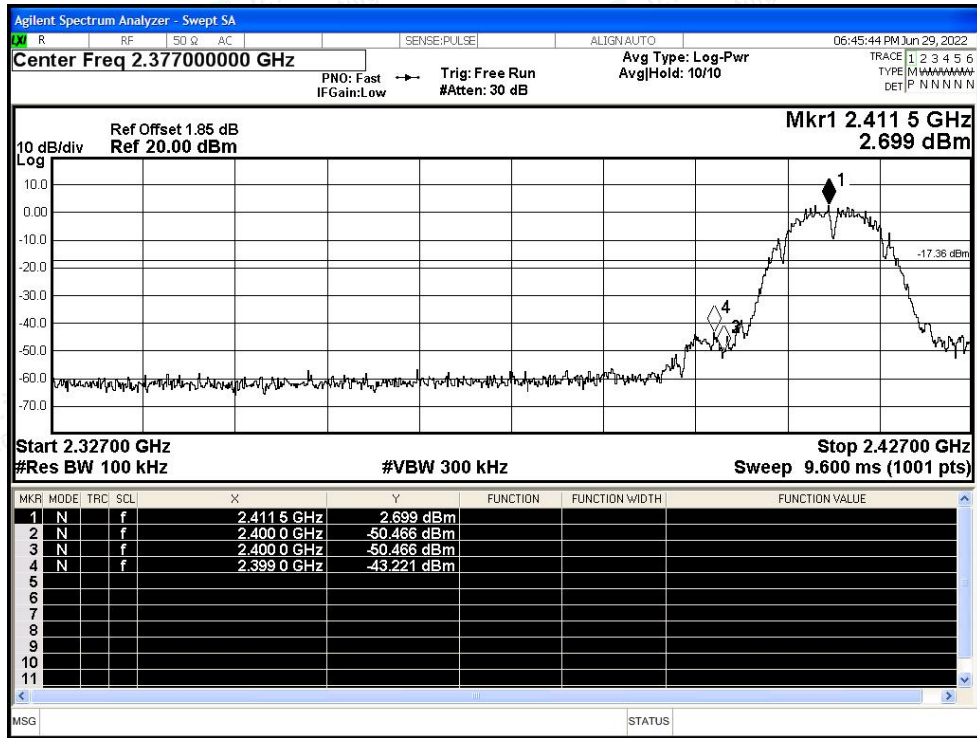


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref

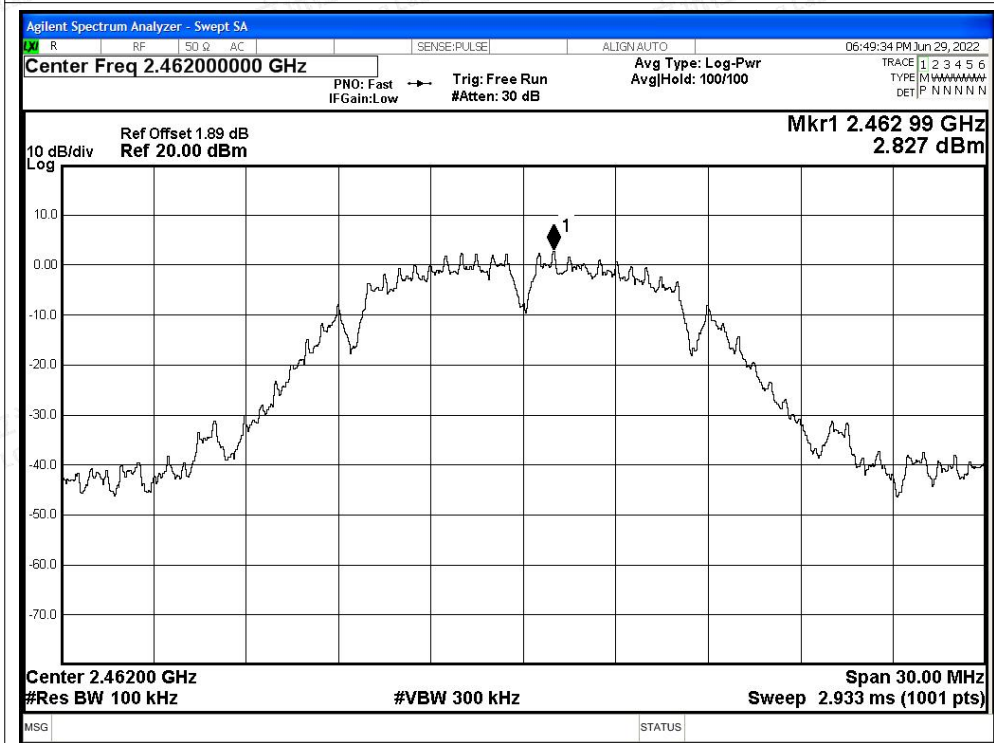


Band Edge NVNT b 2412MHz Ant1 Emission

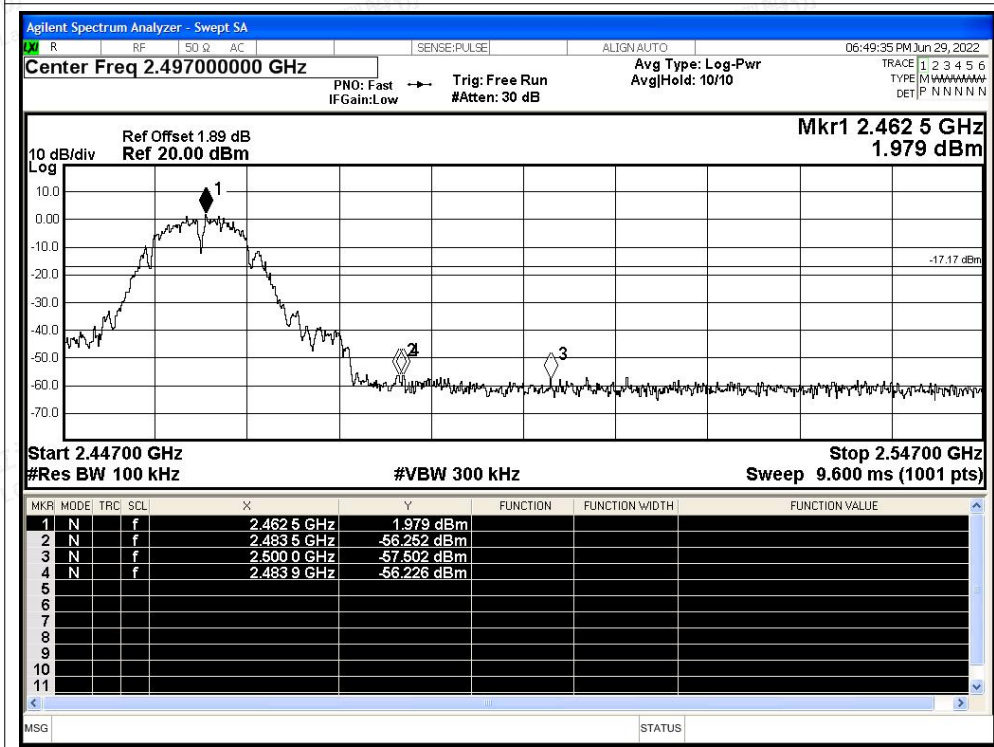




Band Edge NVNT b 2462MHz Ant1 Ref

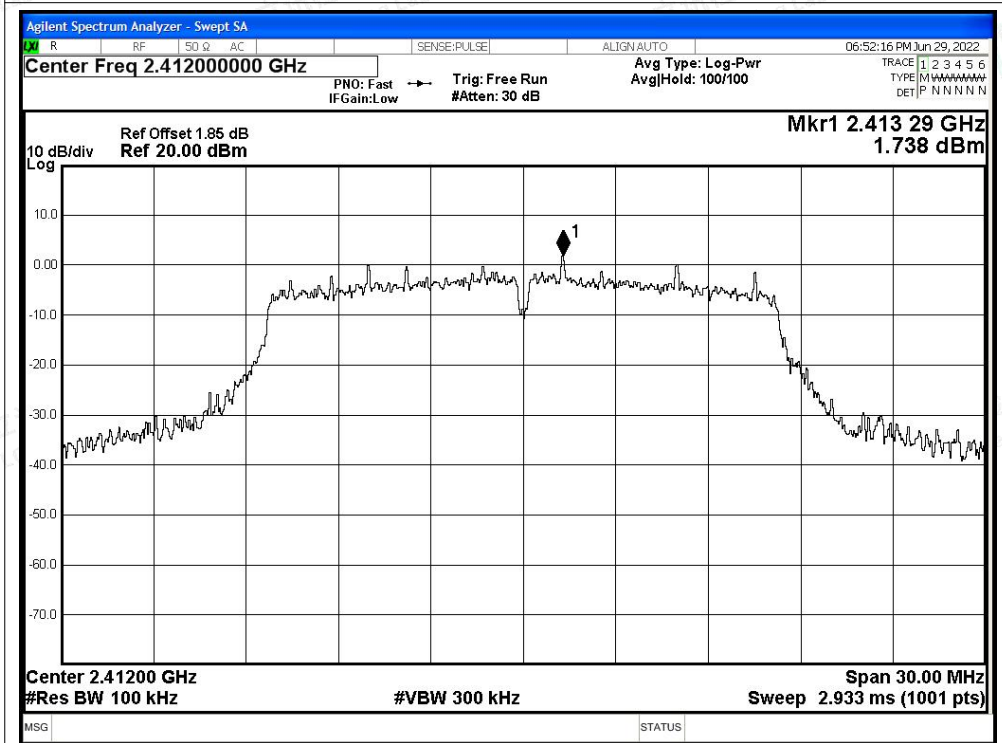


Band Edge NVNT b 2462MHz Ant1 Emission

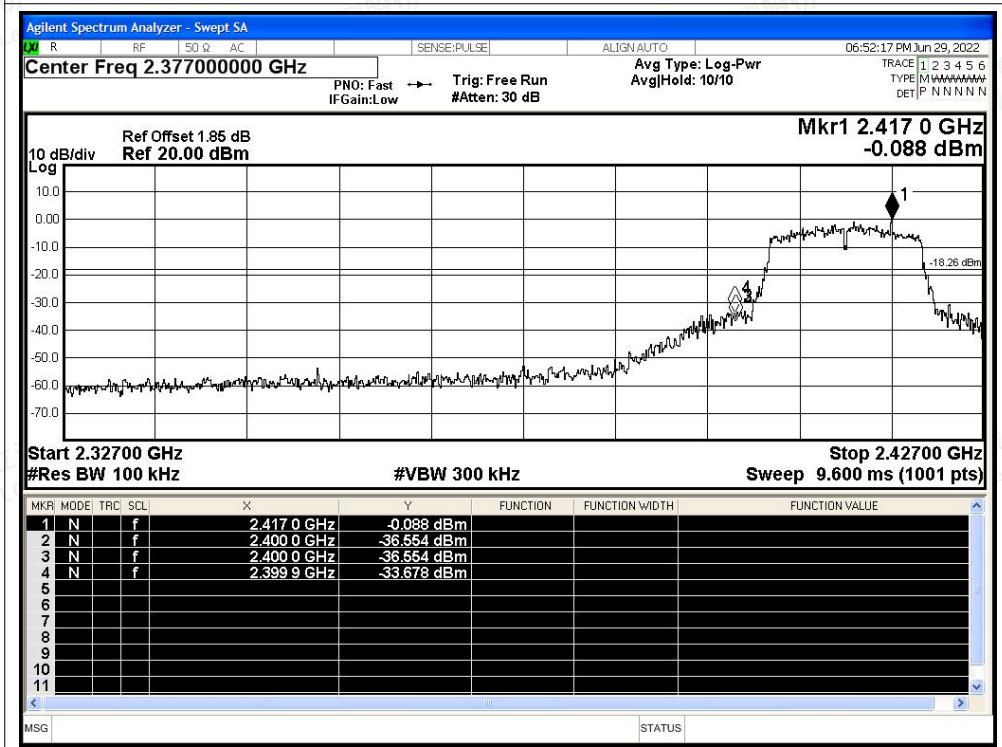




Band Edge NVNT g 2412MHz Ant1 Ref

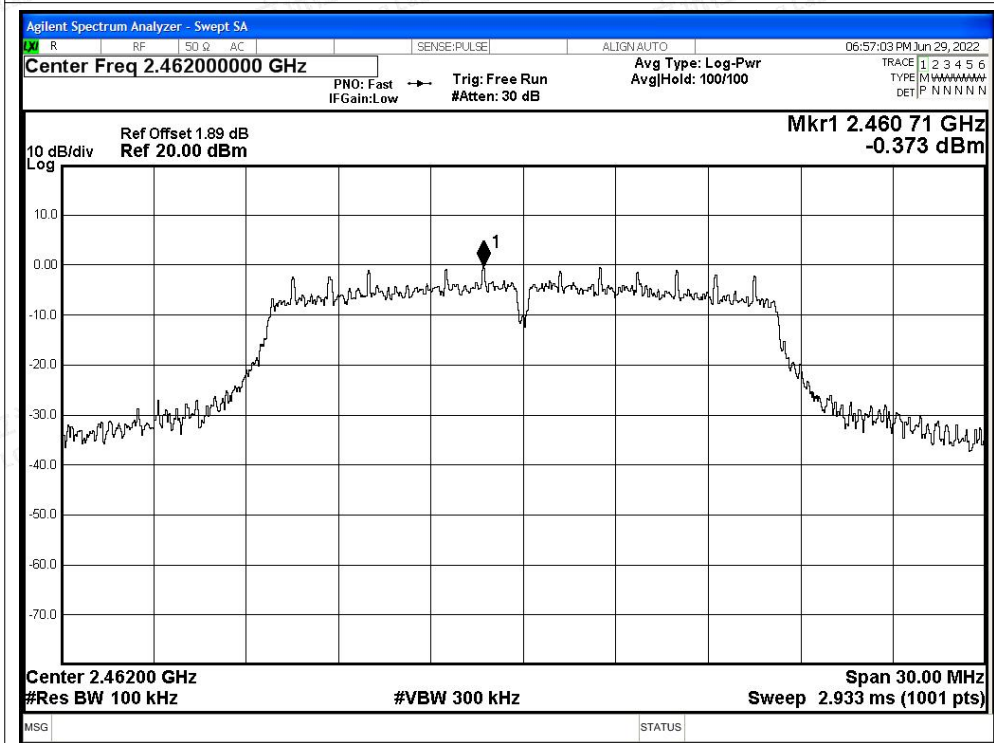


Band Edge NVNT g 2412MHz Ant1 Emission

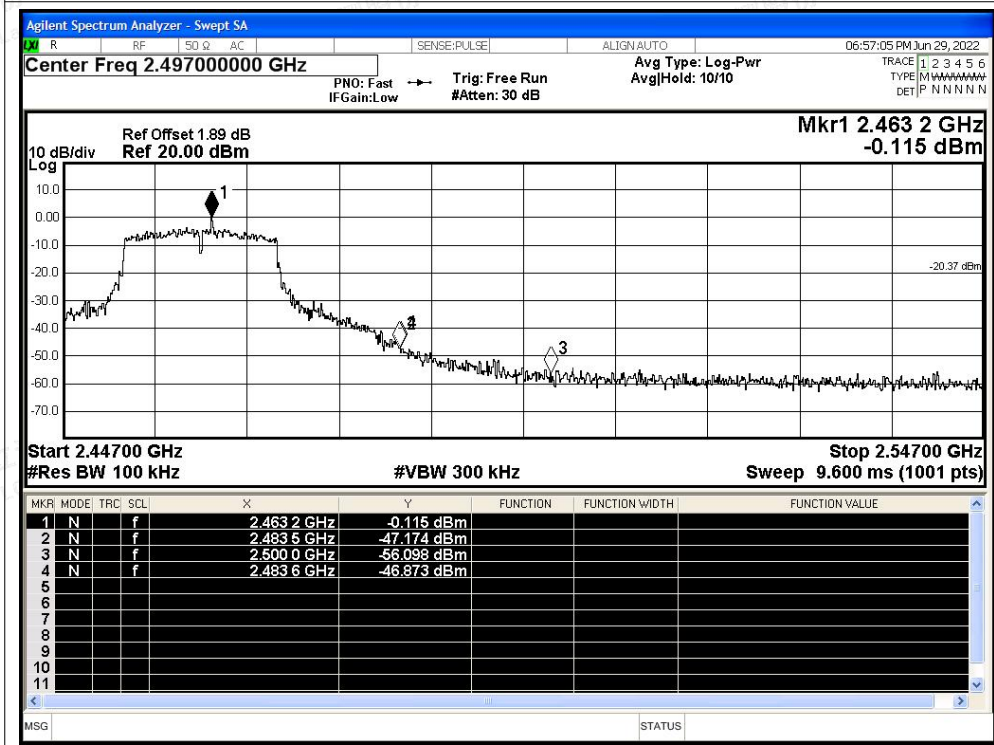




Band Edge NVNT g 2462MHz Ant1 Ref

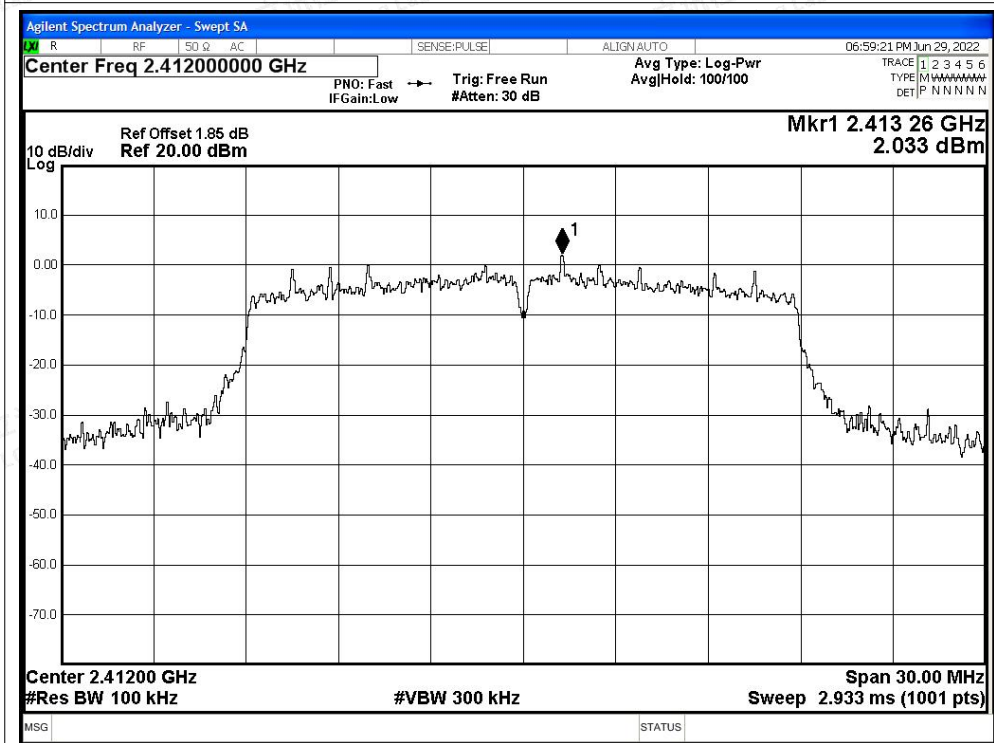


Band Edge NVNT g 2462MHz Ant1 Emission

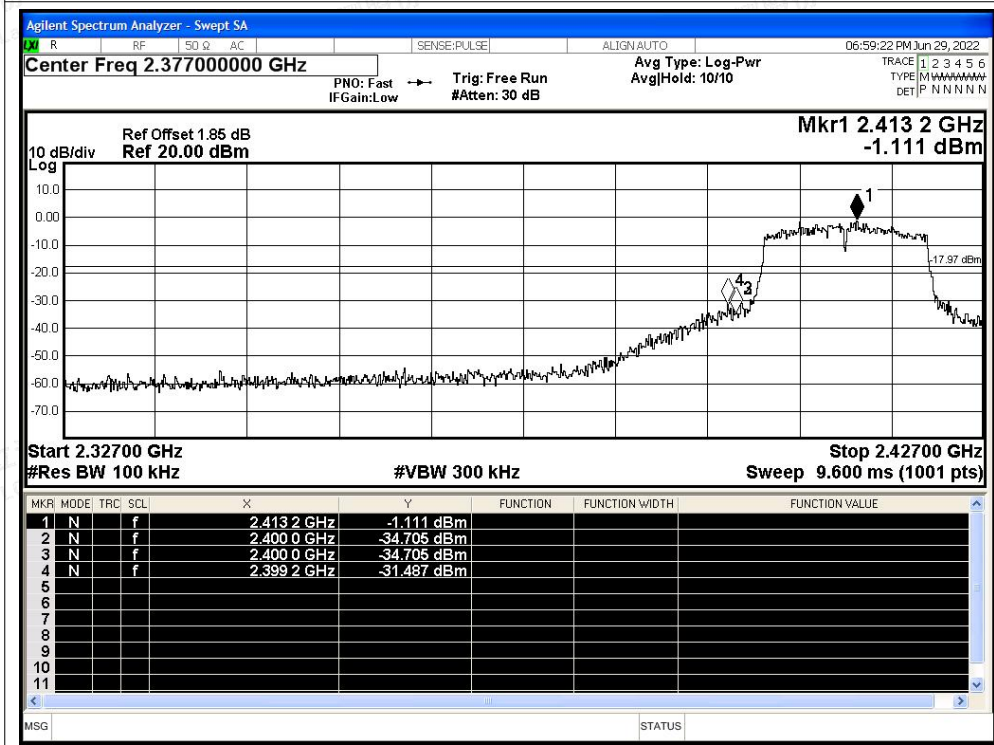




Band Edge NVNT n20 2412MHz Ant1 Ref

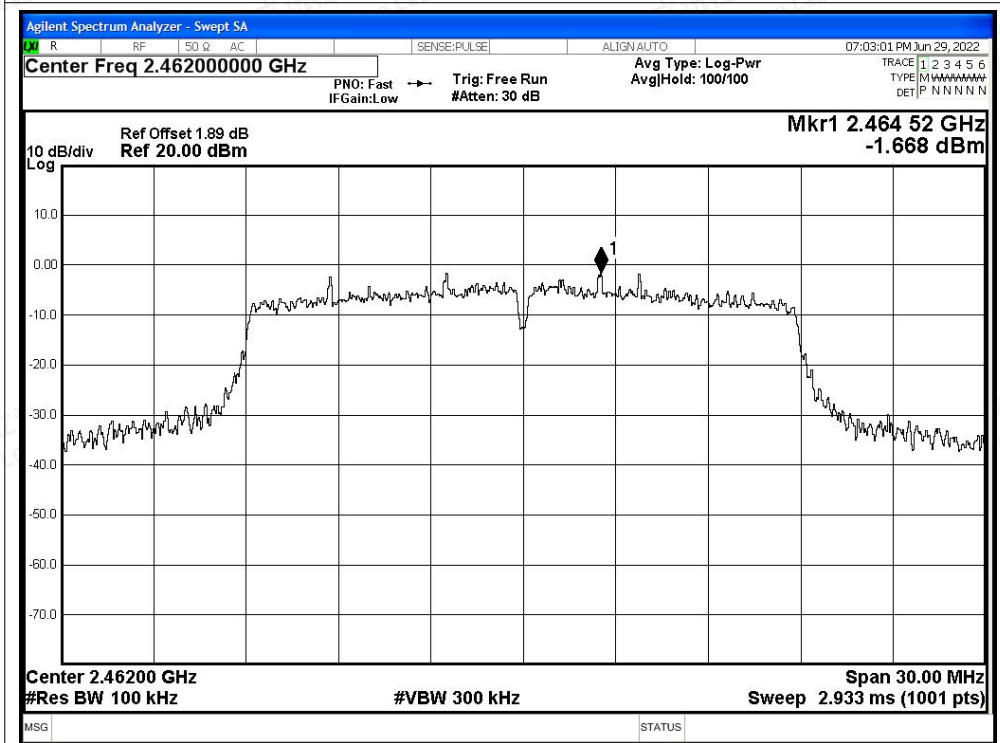


Band Edge NVNT n20 2412MHz Ant1 Emission

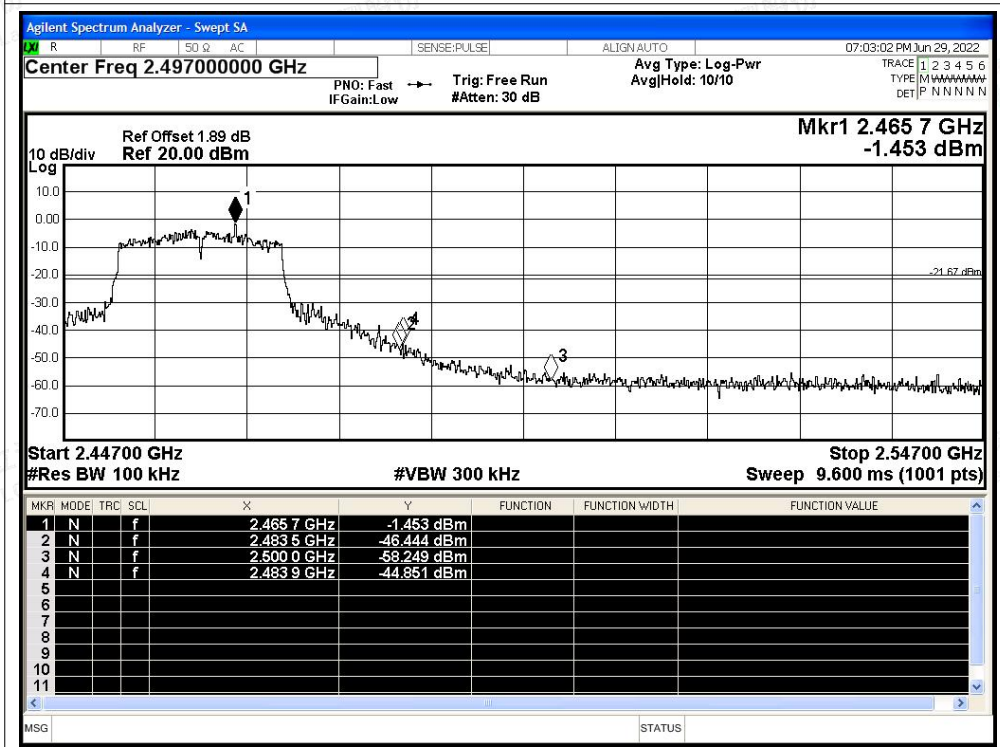




Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission





B.6 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.29	-20	Pass
NVNT	b	2437	Ant1	-50.15	-20	Pass
NVNT	b	2462	Ant1	-48.36	-20	Pass
NVNT	g	2412	Ant1	-46.52	-20	Pass
NVNT	g	2437	Ant1	-46.33	-20	Pass
NVNT	g	2462	Ant1	-43.93	-20	Pass
NVNT	n20	2412	Ant1	-48.68	-20	Pass
NVNT	n20	2437	Ant1	-46.03	-20	Pass
NVNT	n20	2462	Ant1	-46.15	-20	Pass

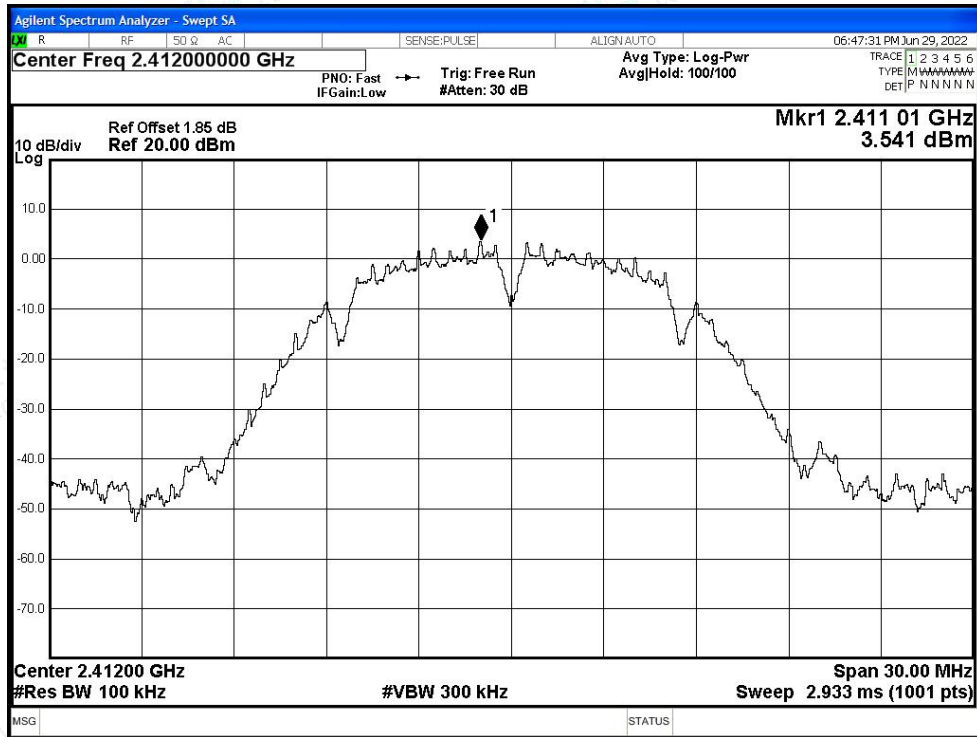


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Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission

