



Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Multi-function projector

Test Model: NeoPix 110

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,
518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
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A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.503	≥ 0.5	Pass
NVNT	b	2437	Ant1	9.579	≥ 0.5	Pass
NVNT	b	2462	Ant1	9.083	≥ 0.5	Pass
NVNT	g	2412	Ant1	16.021	≥ 0.5	Pass
NVNT	g	2437	Ant1	10.027	≥ 0.5	Pass
NVNT	g	2462	Ant1	13.776	≥ 0.5	Pass
NVNT	n20	2412	Ant1	14.164	≥ 0.5	Pass
NVNT	n20	2437	Ant1	15.63	≥ 0.5	Pass
NVNT	n20	2462	Ant1	14.021	≥ 0.5	Pass
NVNT	n40	2422	Ant1	33.795	≥ 0.5	Pass
NVNT	n40	2437	Ant1	32.528	≥ 0.5	Pass
NVNT	n40	2452	Ant1	30.125	≥ 0.5	Pass

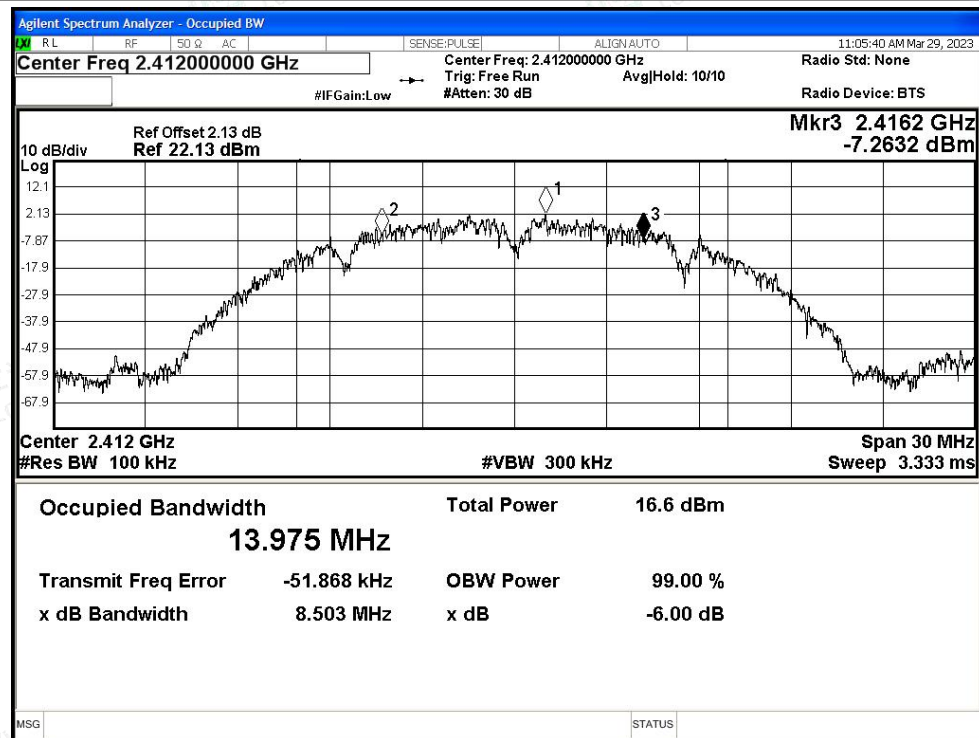


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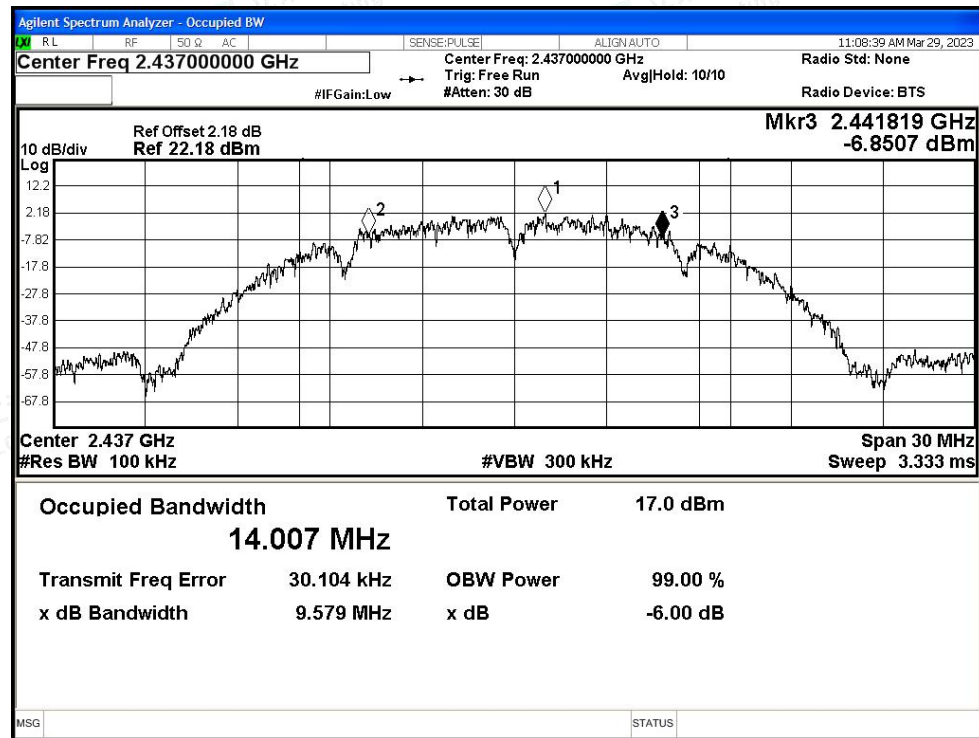


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

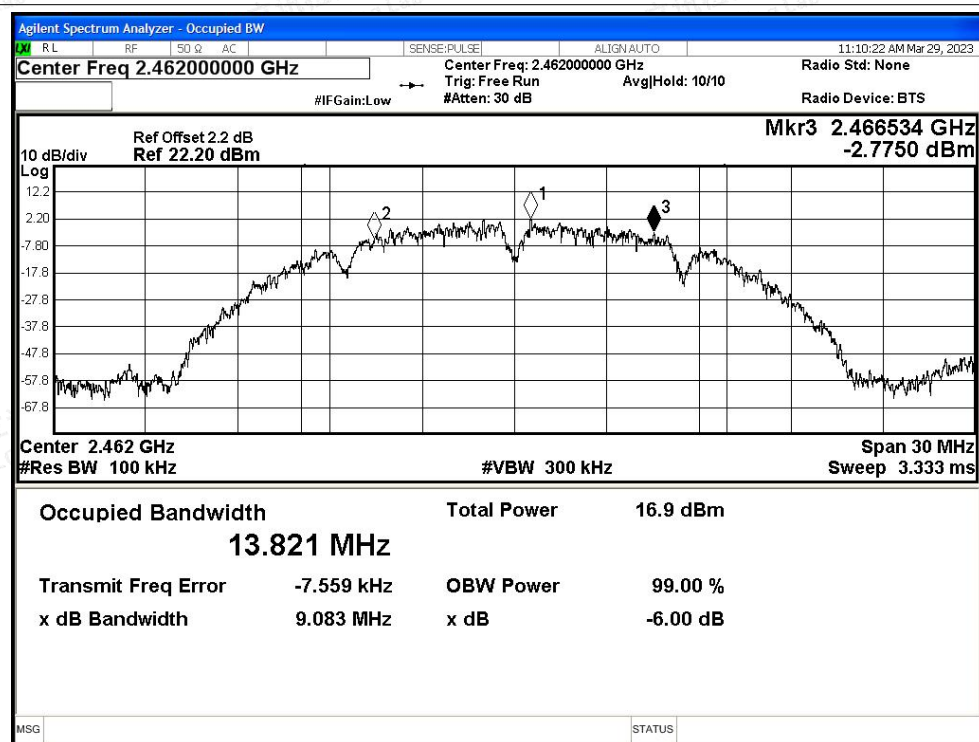


-6dB Bandwidth NVNT b 2437MHz Ant1

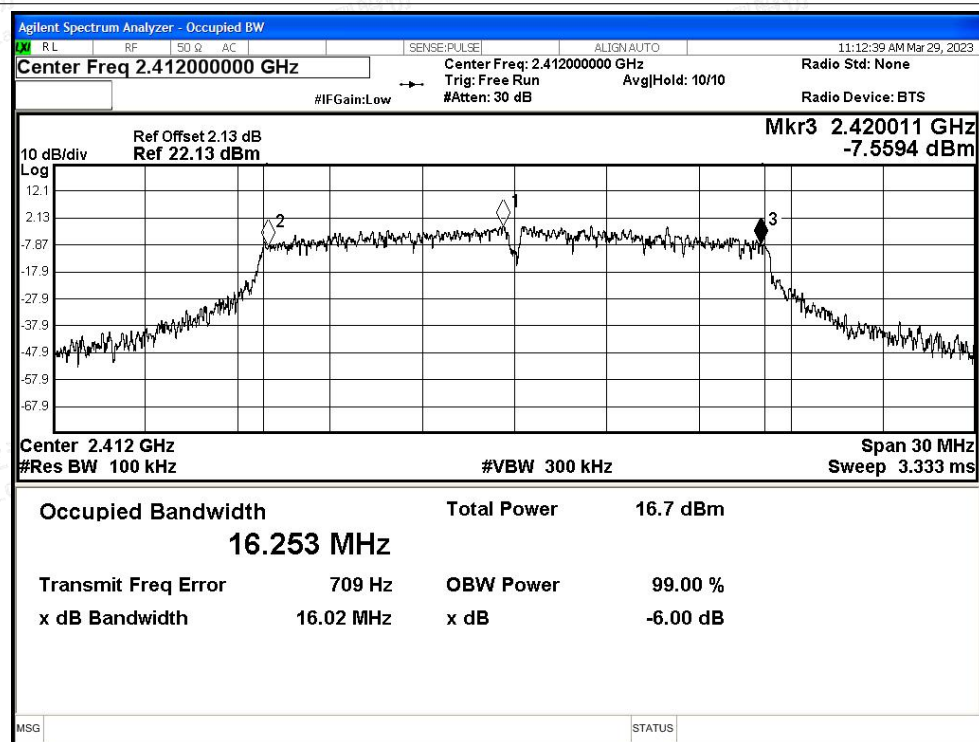




-6dB Bandwidth NVNT b 2462MHz Ant1

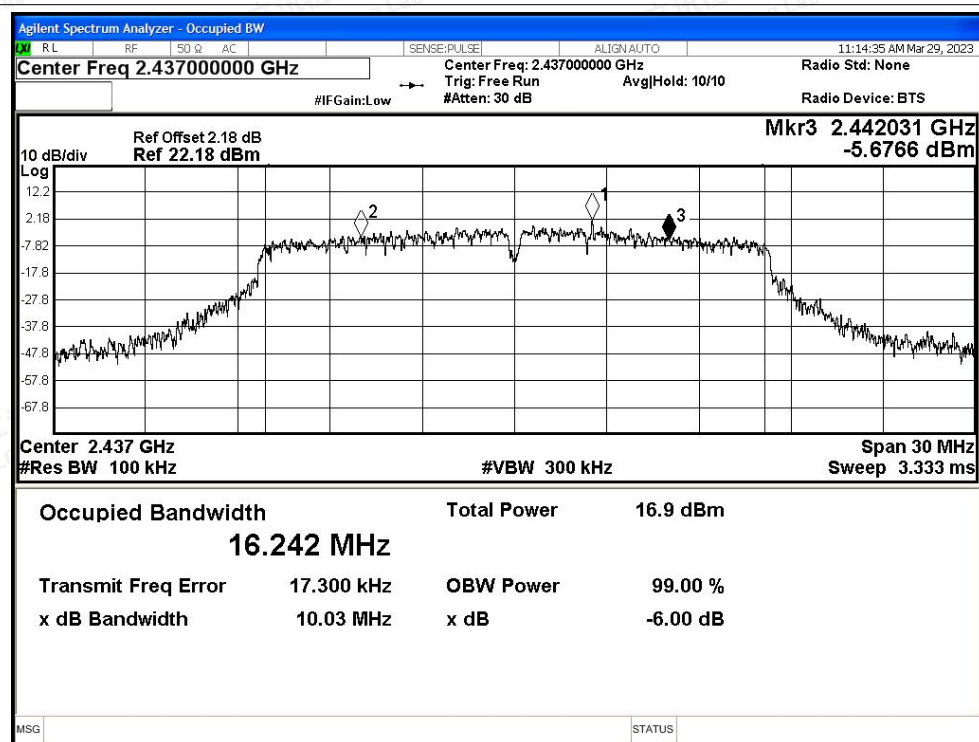


-6dB Bandwidth NVNT g 2412MHz Ant1

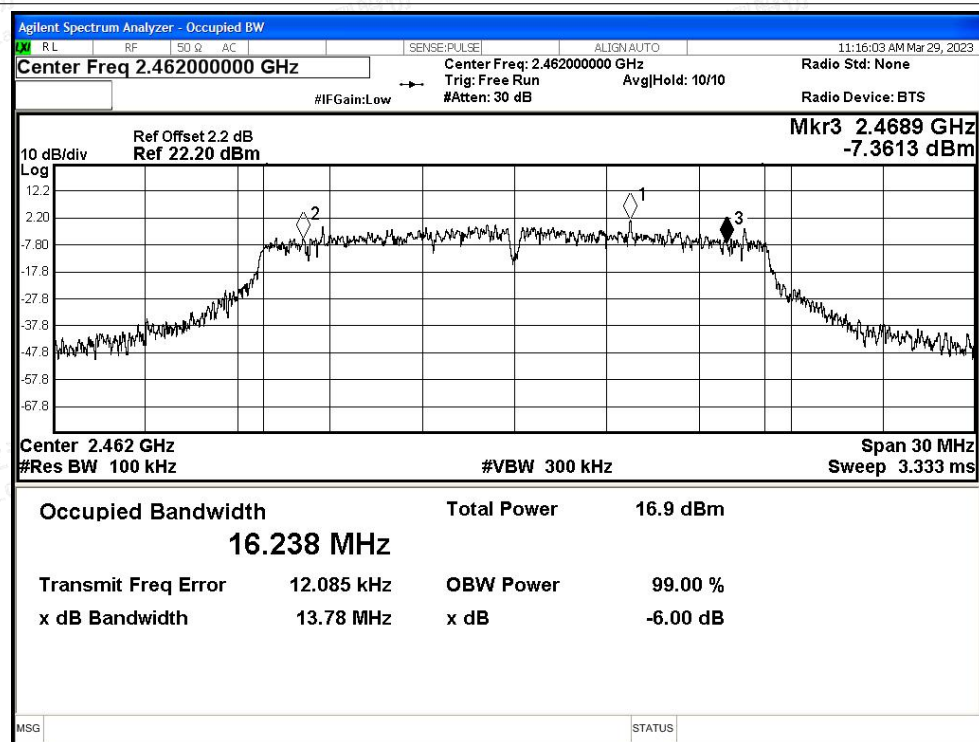




-6dB Bandwidth NVNT g 2437MHz Ant1

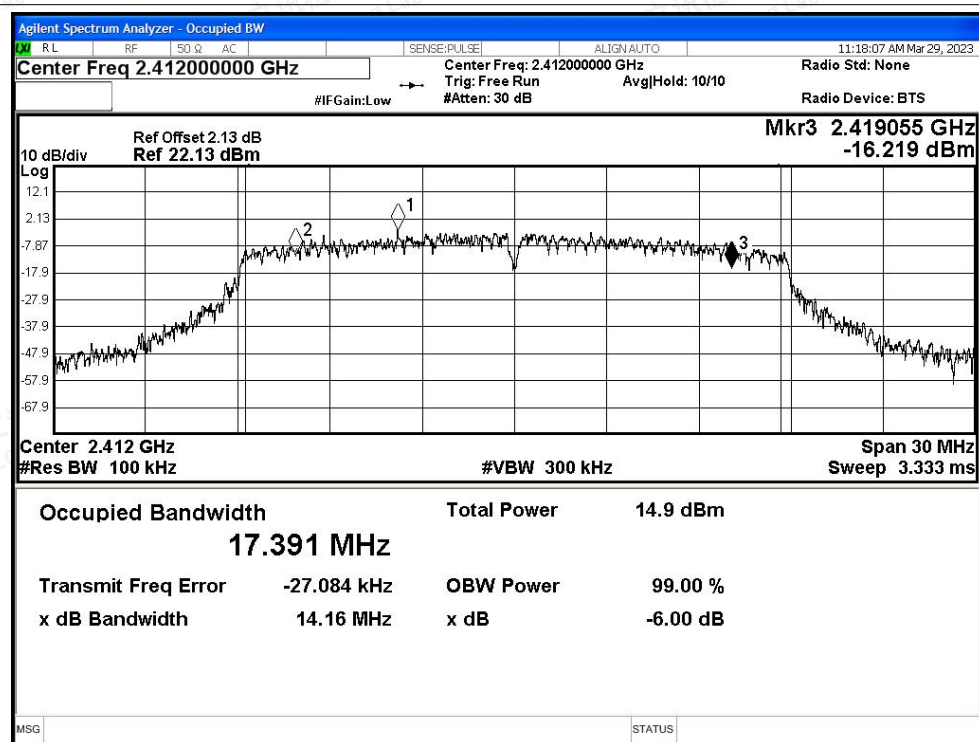


-6dB Bandwidth NVNT g 2462MHz Ant1

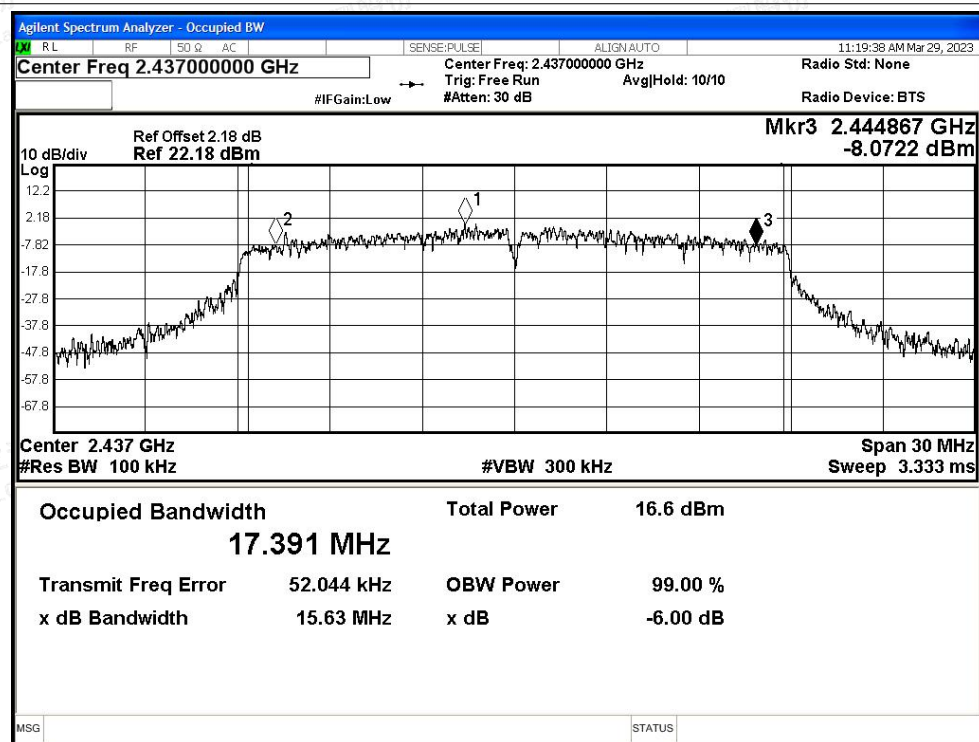




-6dB Bandwidth NVNT n20 2412MHz Ant1

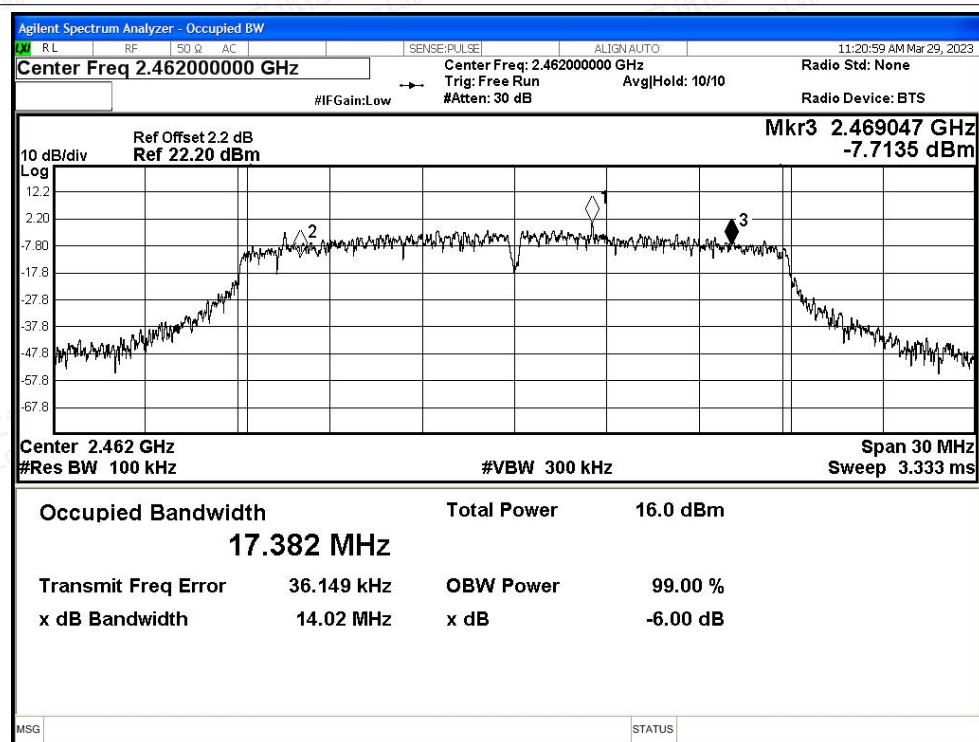


-6dB Bandwidth NVNT n20 2437MHz Ant1

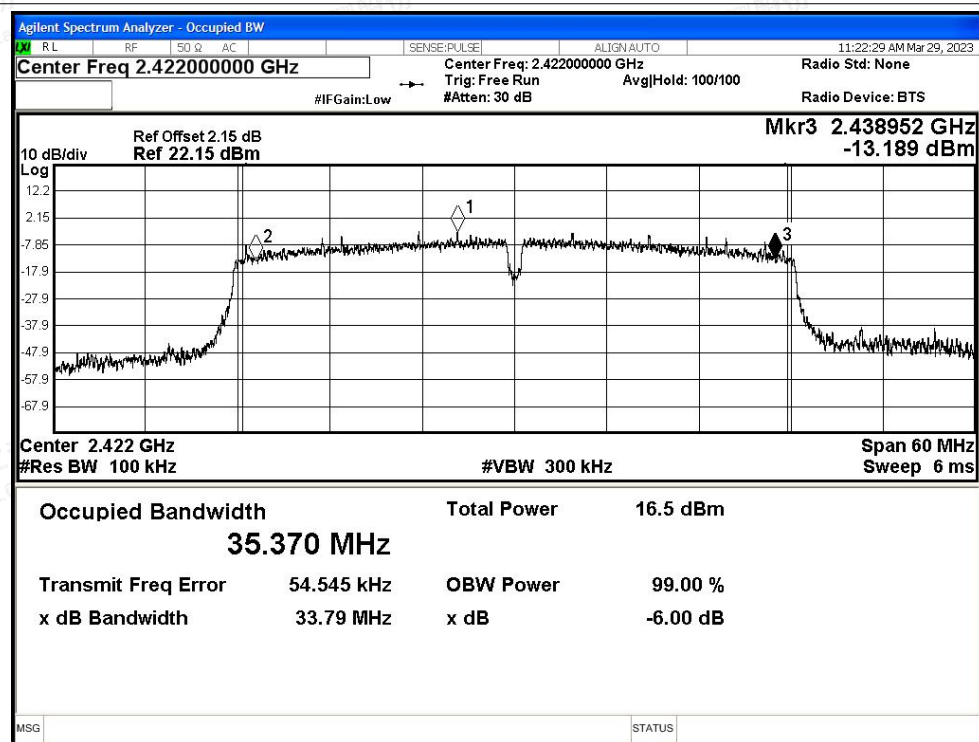




-6dB Bandwidth NVNT n20 2462MHz Ant1

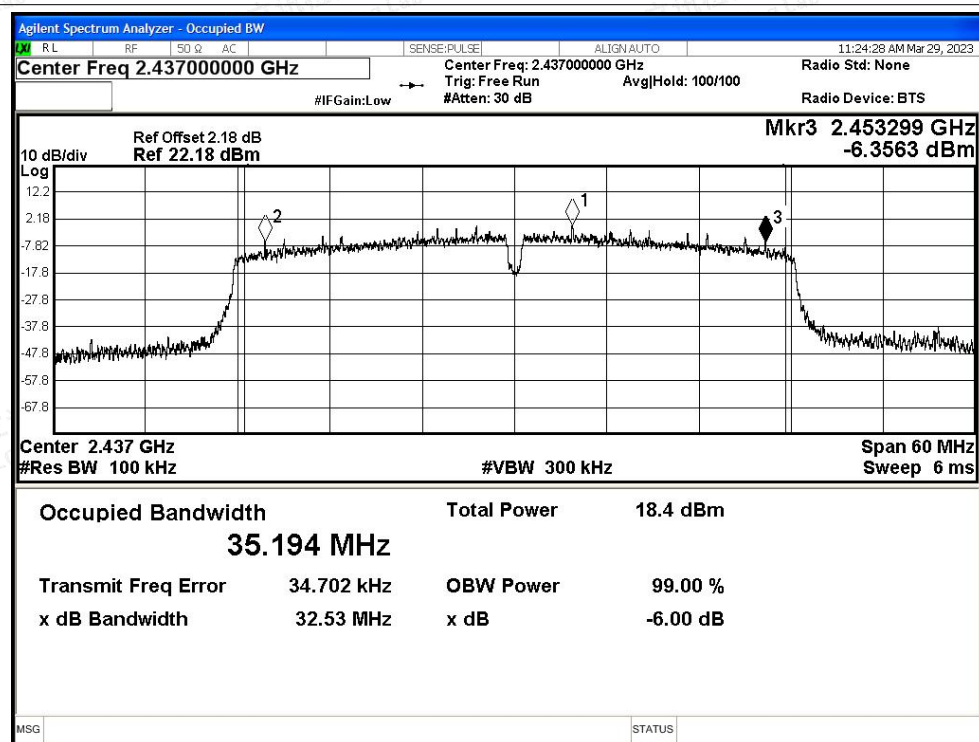


-6dB Bandwidth NVNT n40 2422MHz Ant1

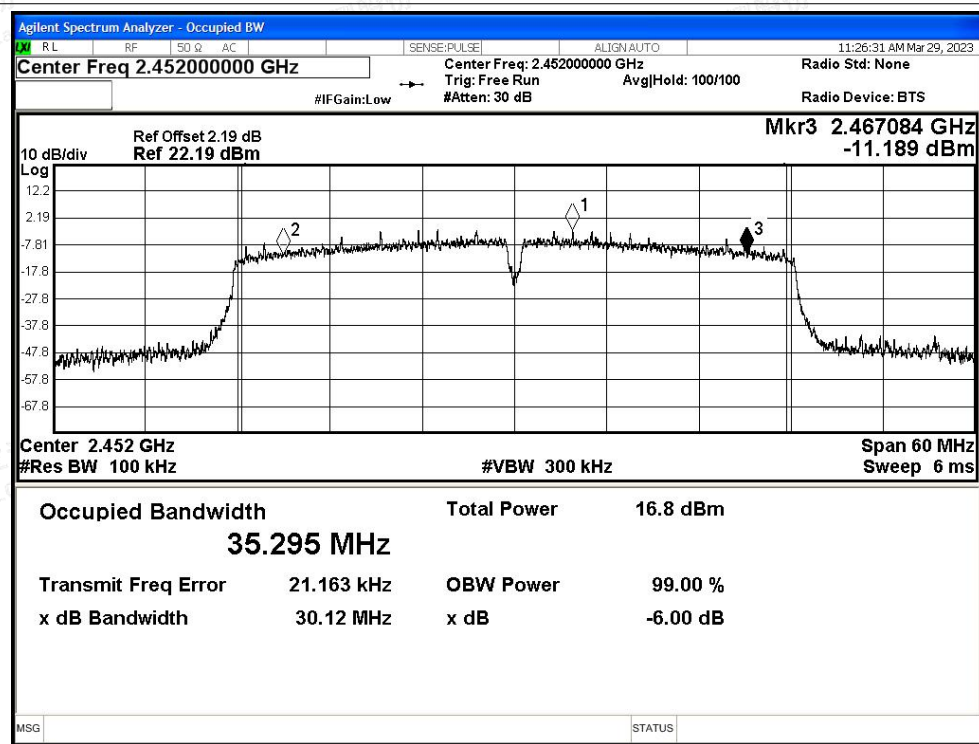




-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1





A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	13.40	30	Pass
NVNT	b	2437	Ant1	13.57	30	Pass
NVNT	b	2462	Ant1	13.05	30	Pass
NVNT	g	2412	Ant1	15.41	30	Pass
NVNT	g	2437	Ant1	15.64	30	Pass
NVNT	g	2462	Ant1	15.71	30	Pass
NVNT	n20	2412	Ant1	13.45	30	Pass
NVNT	n20	2437	Ant1	15.35	30	Pass
NVNT	n20	2462	Ant1	16.28	30	Pass
NVNT	n40	2422	Ant1	15.14	30	Pass
NVNT	n40	2437	Ant1	16.88	30	Pass
NVNT	n40	2452	Ant1	15.39	30	Pass



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
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A.3 Maximum Power Spectral Density Level

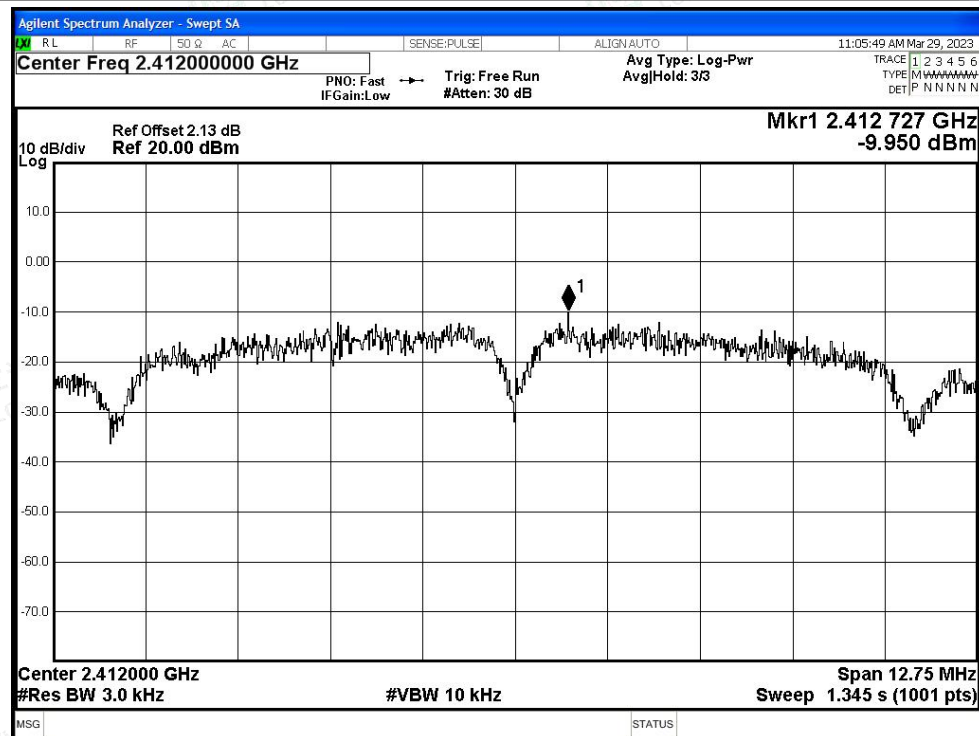
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-9.95	8	Pass
NVNT	b	2437	Ant1	-11.13	8	Pass
NVNT	b	2462	Ant1	-9.79	8	Pass
NVNT	g	2412	Ant1	-10.81	8	Pass
NVNT	g	2437	Ant1	-12.35	8	Pass
NVNT	g	2462	Ant1	-10.21	8	Pass
NVNT	n20	2412	Ant1	-13.93	8	Pass
NVNT	n20	2437	Ant1	-11.63	8	Pass
NVNT	n20	2462	Ant1	-12.52	8	Pass
NVNT	n40	2422	Ant1	-17.34	8	Pass
NVNT	n40	2437	Ant1	-14.67	8	Pass
NVNT	n40	2452	Ant1	-14.47	8	Pass



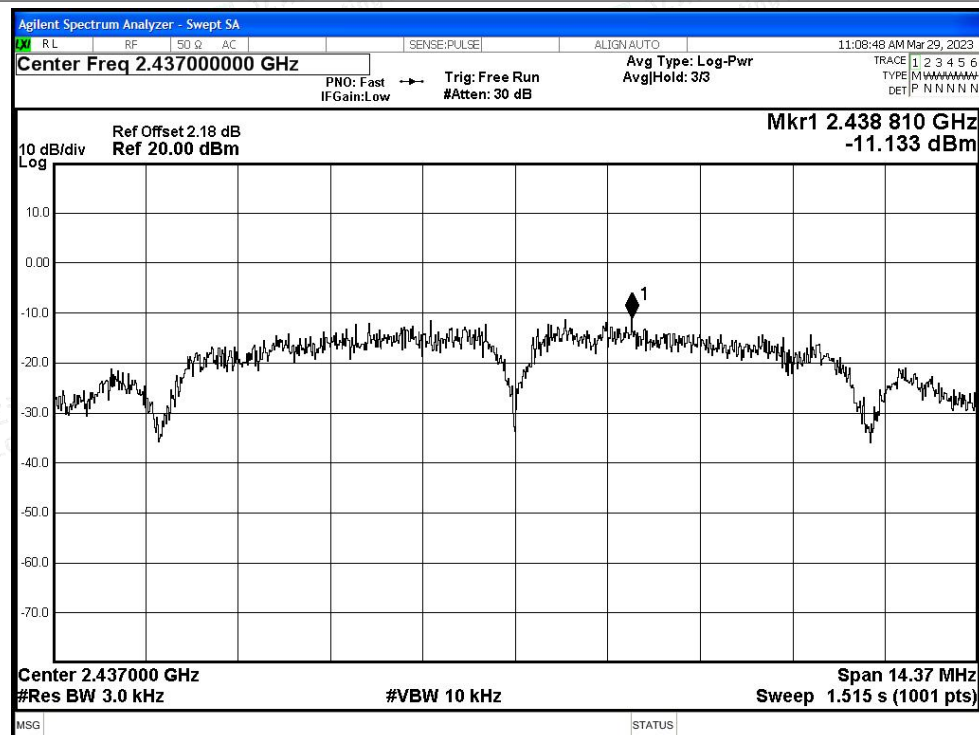


Test Graphs

PSD NVNT b 2412MHz Ant1

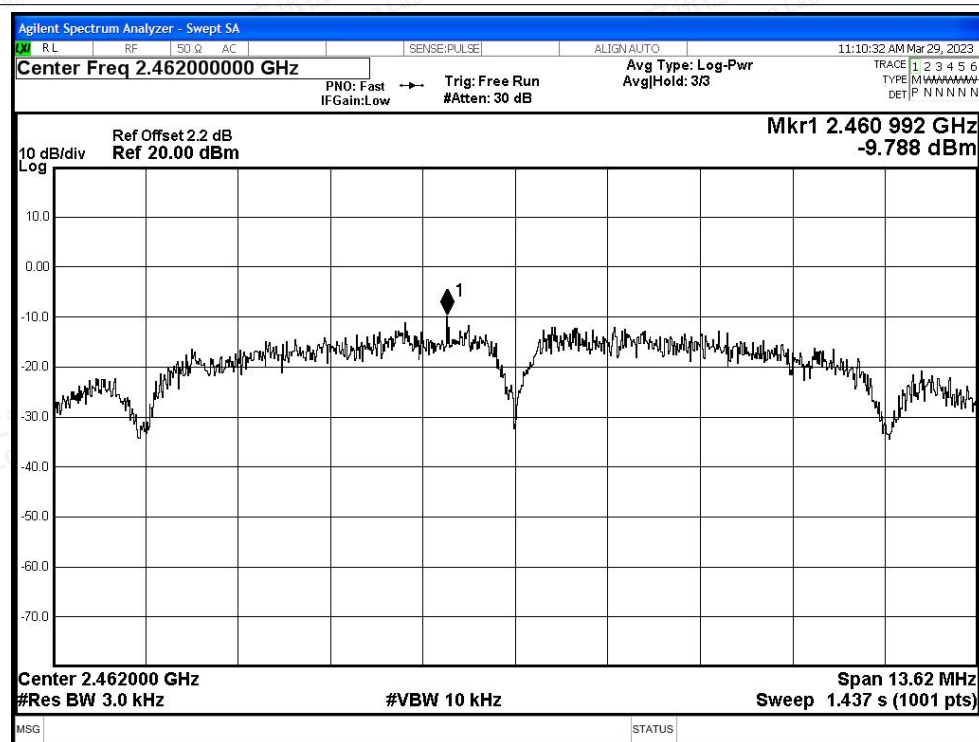


PSD NVNT b 2437MHz Ant1

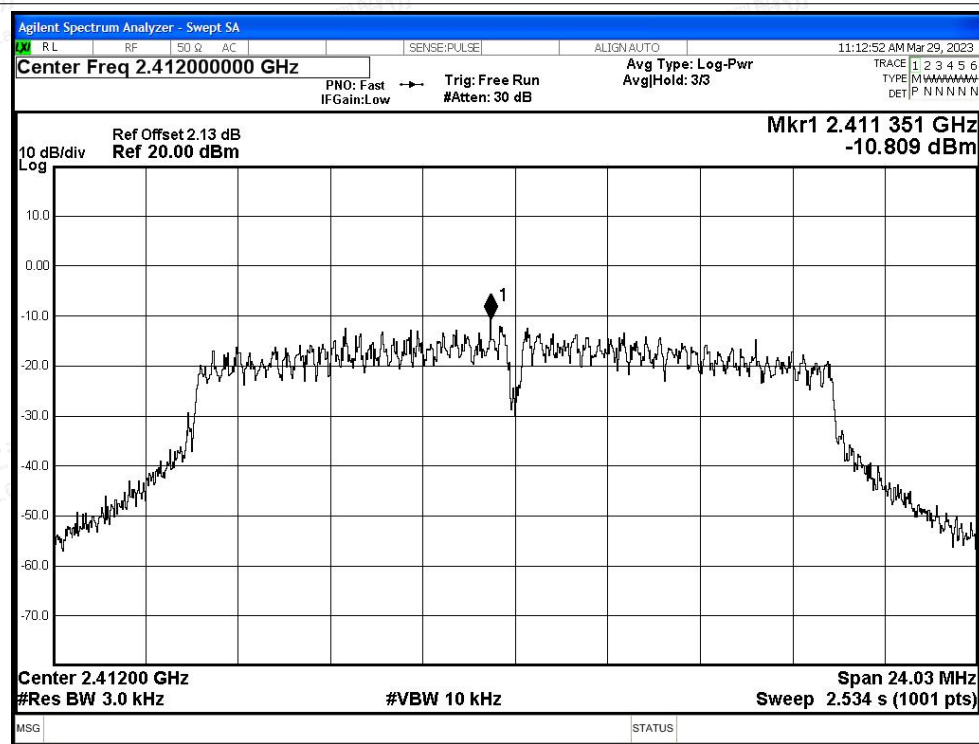




PSD NVNT b 2462MHz Ant1

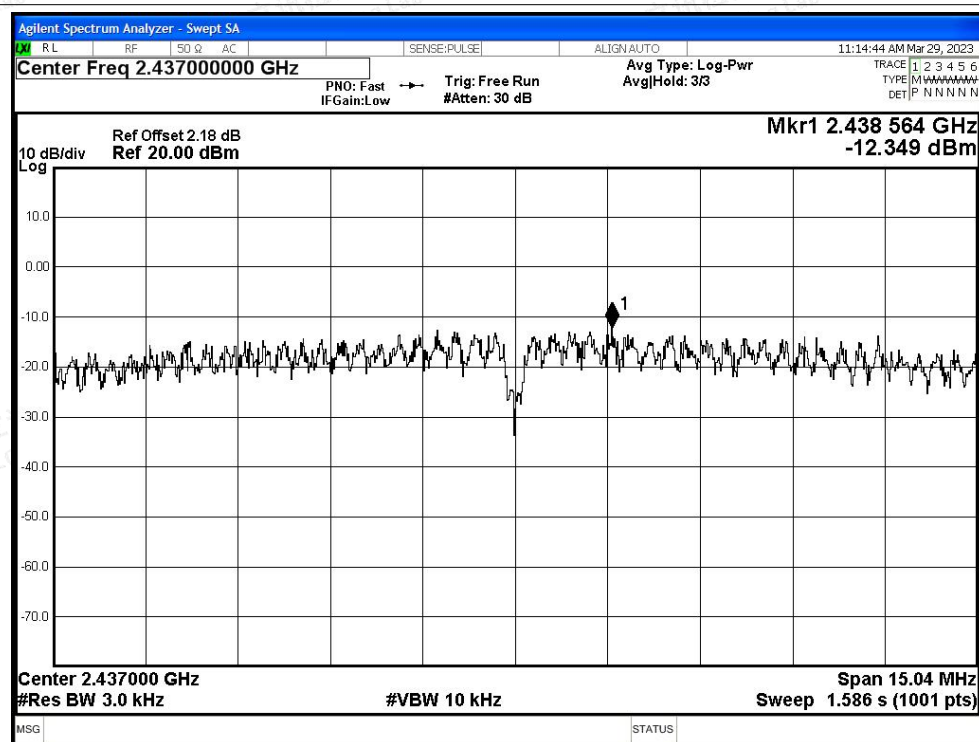


PSD NVNT g 2412MHz Ant1

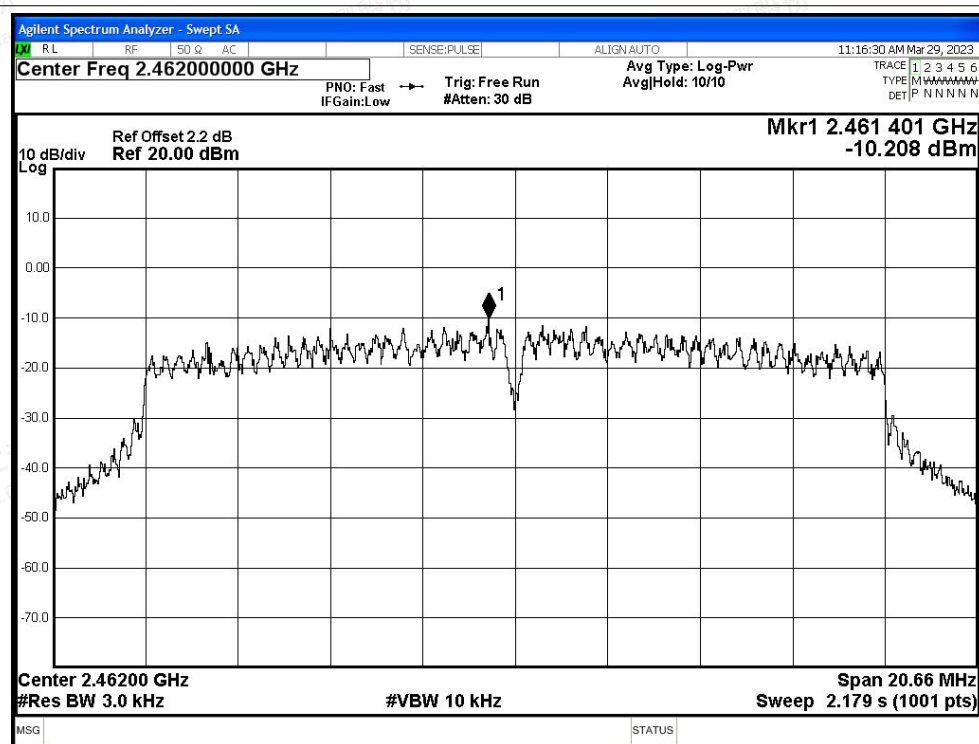


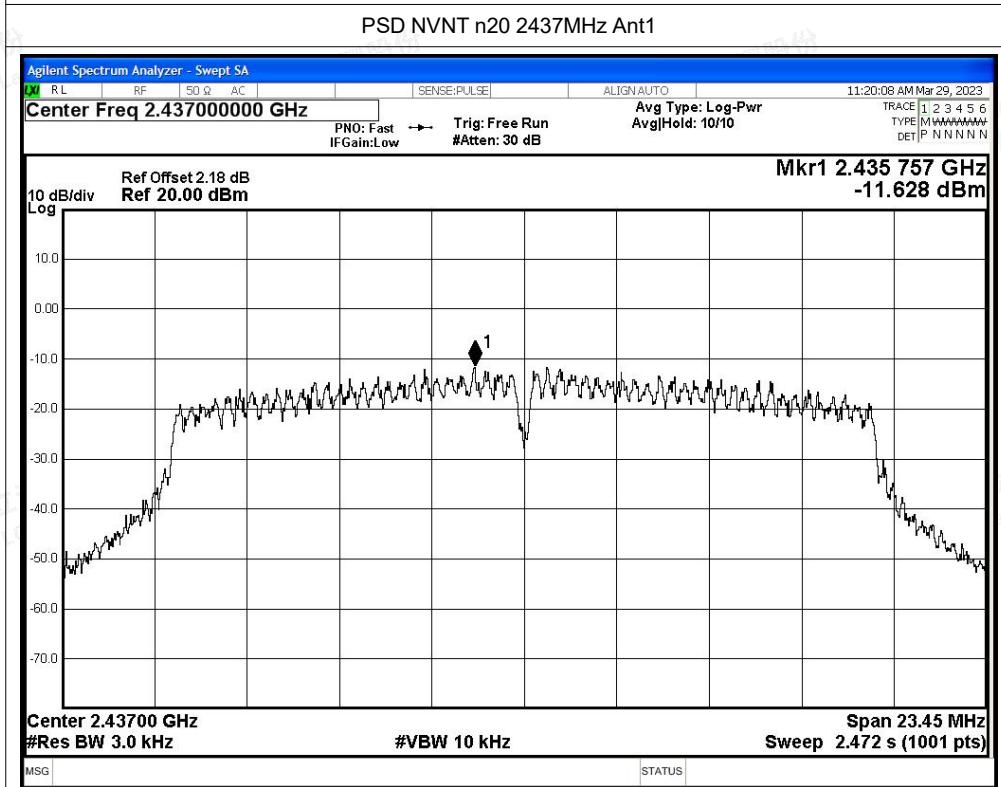
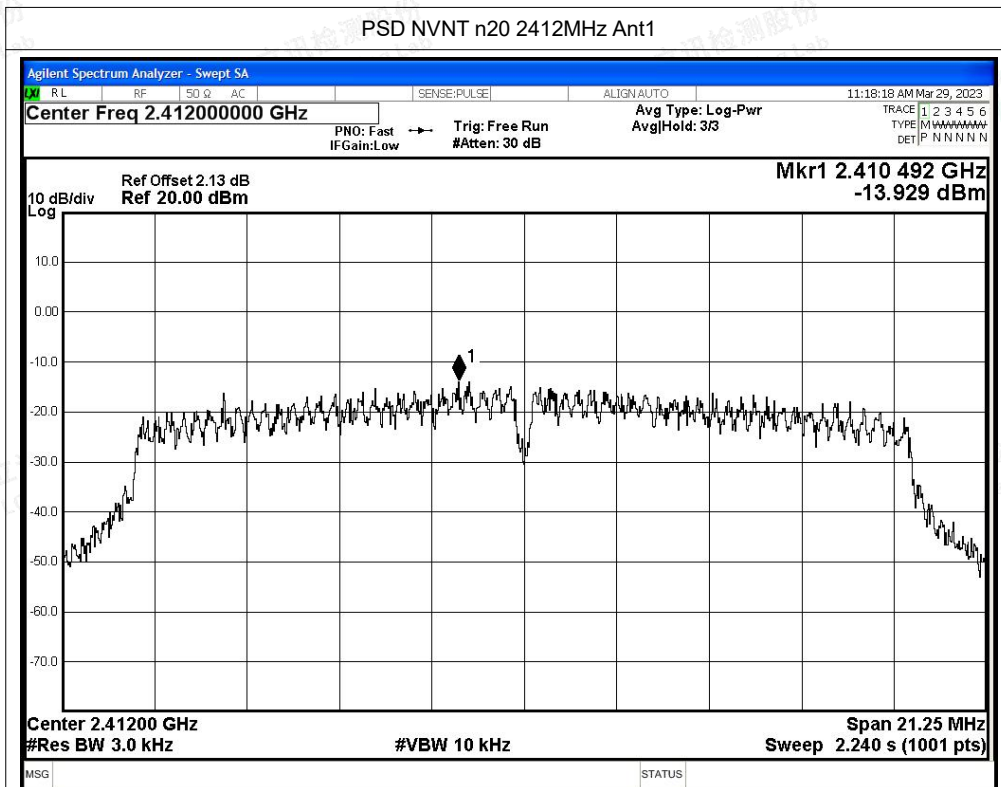


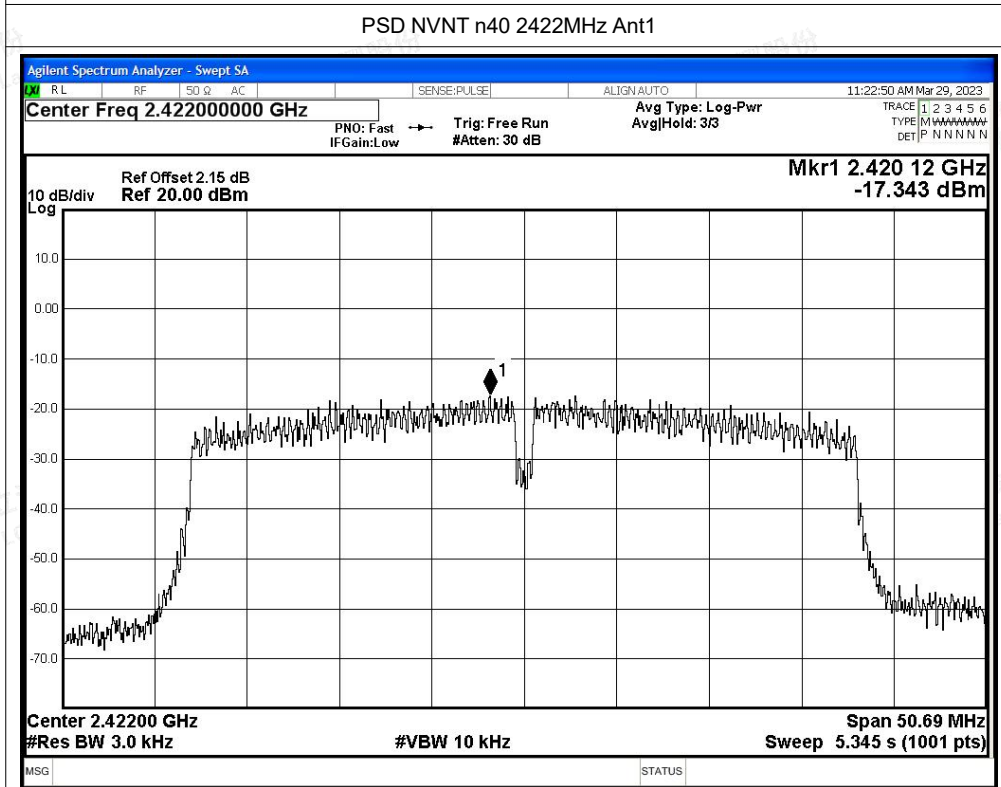
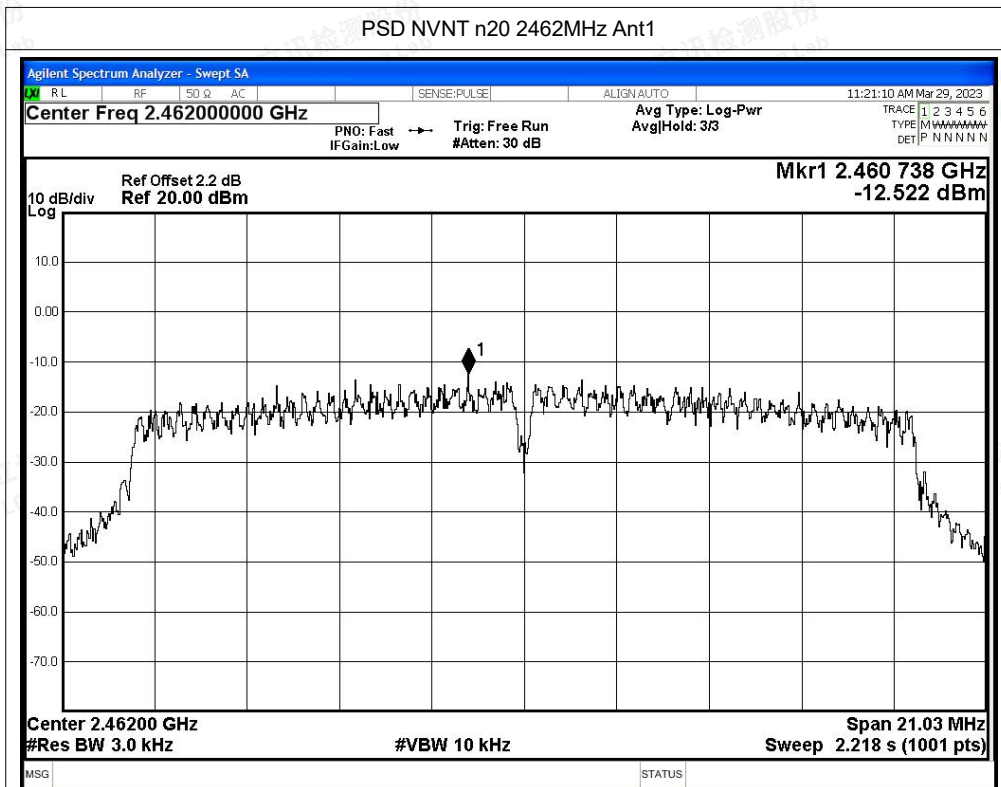
PSD NVNT g 2437MHz Ant1

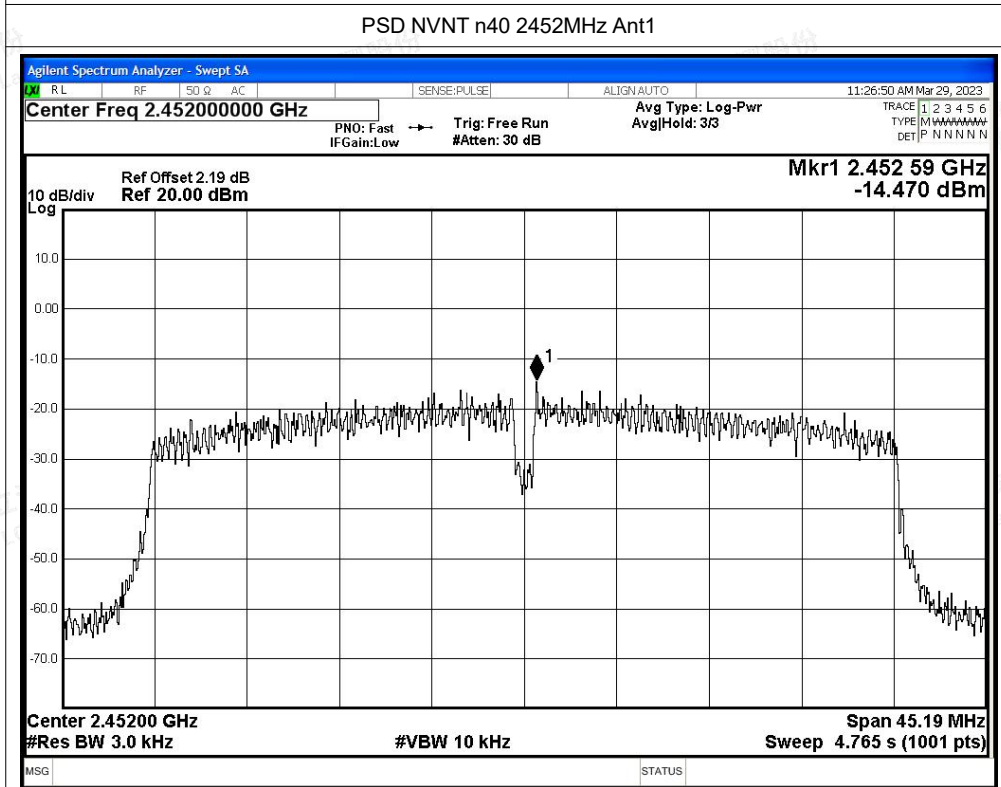
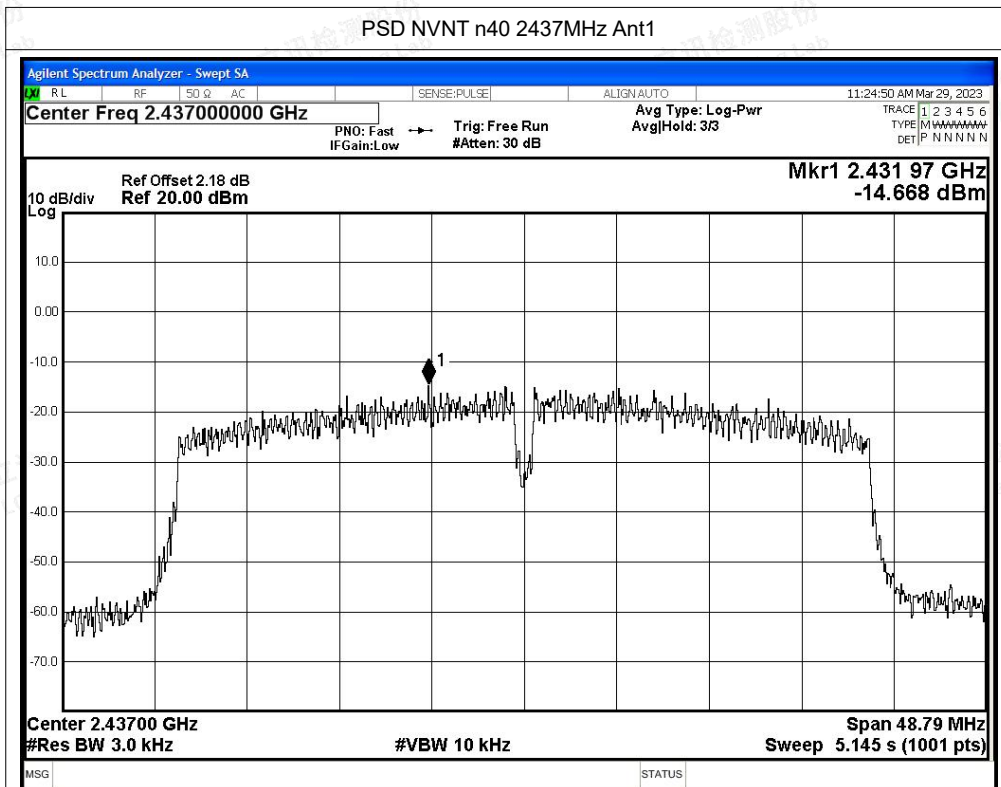


PSD NVNT g 2462MHz Ant1











A.4 Band Edge

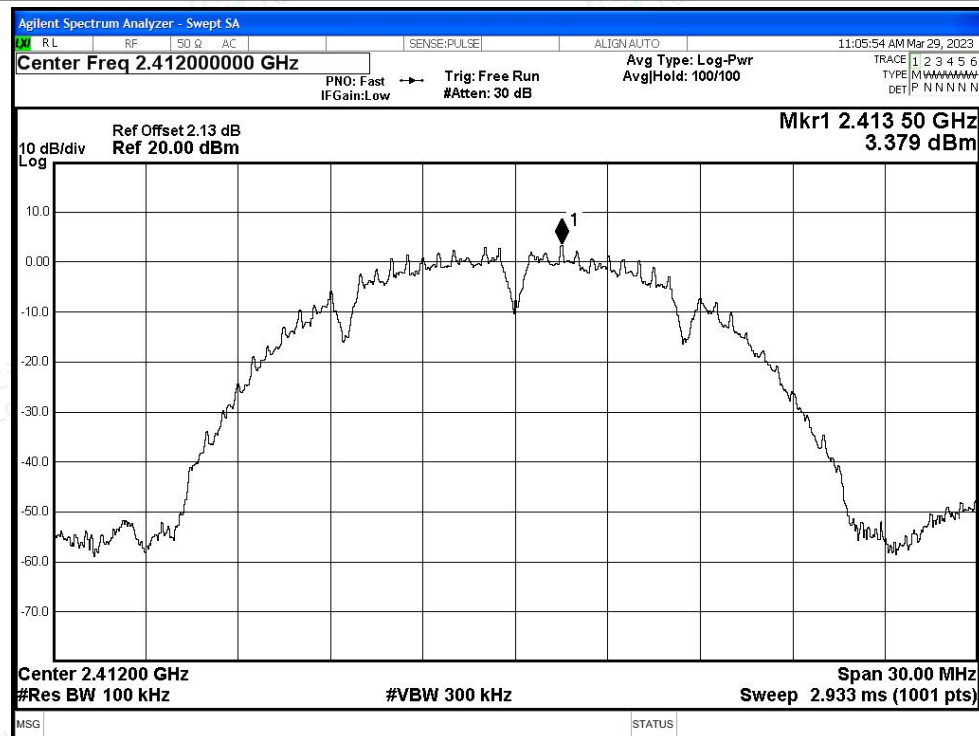
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-54.86	-20	Pass
NVNT	b	2462	Ant1	-59.47	-20	Pass
NVNT	g	2412	Ant1	-42.03	-20	Pass
NVNT	g	2462	Ant1	-55.35	-20	Pass
NVNT	n20	2412	Ant1	-42.87	-20	Pass
NVNT	n20	2462	Ant1	-56.04	-20	Pass
NVNT	n40	2422	Ant1	-44.44	-20	Pass
NVNT	n40	2452	Ant1	-45.53	-20	Pass



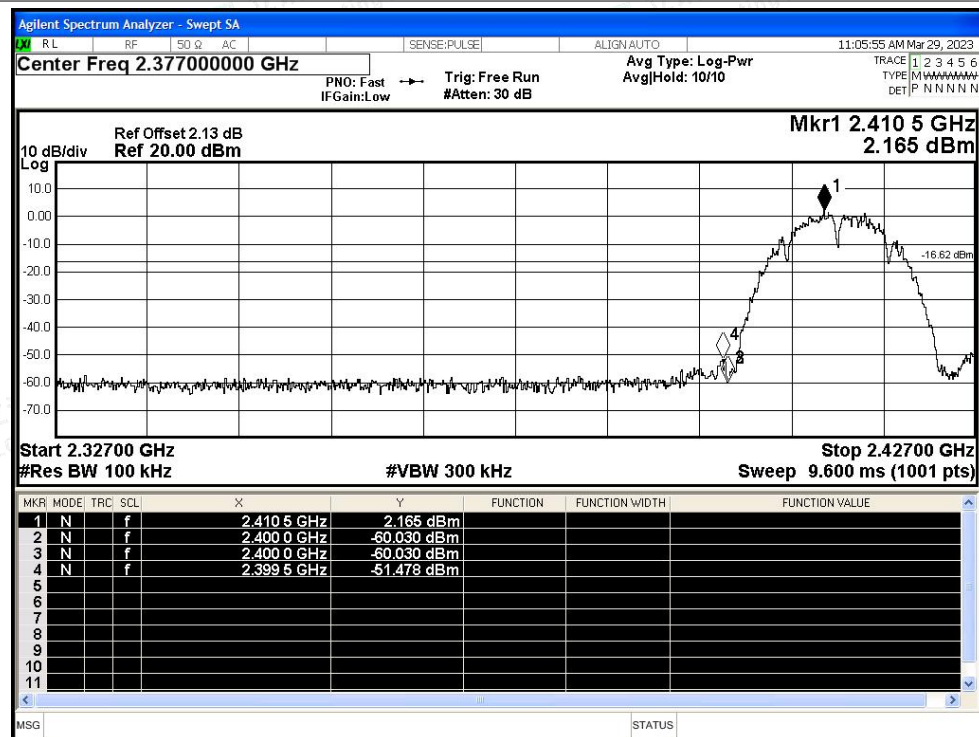


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref

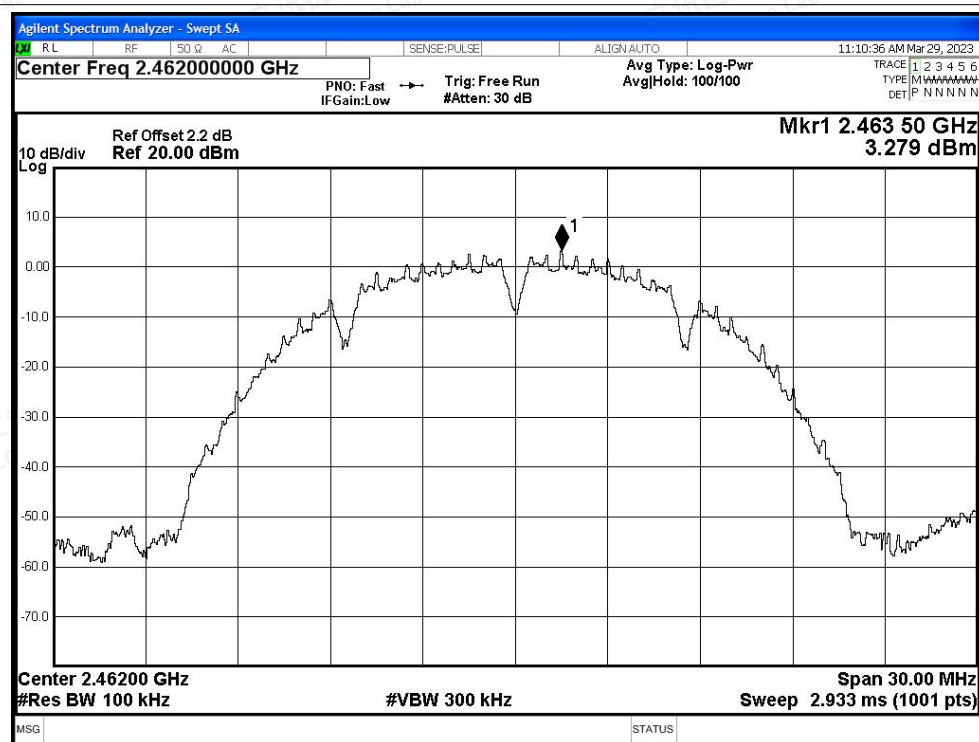


Band Edge NVNT b 2412MHz Ant1 Emission

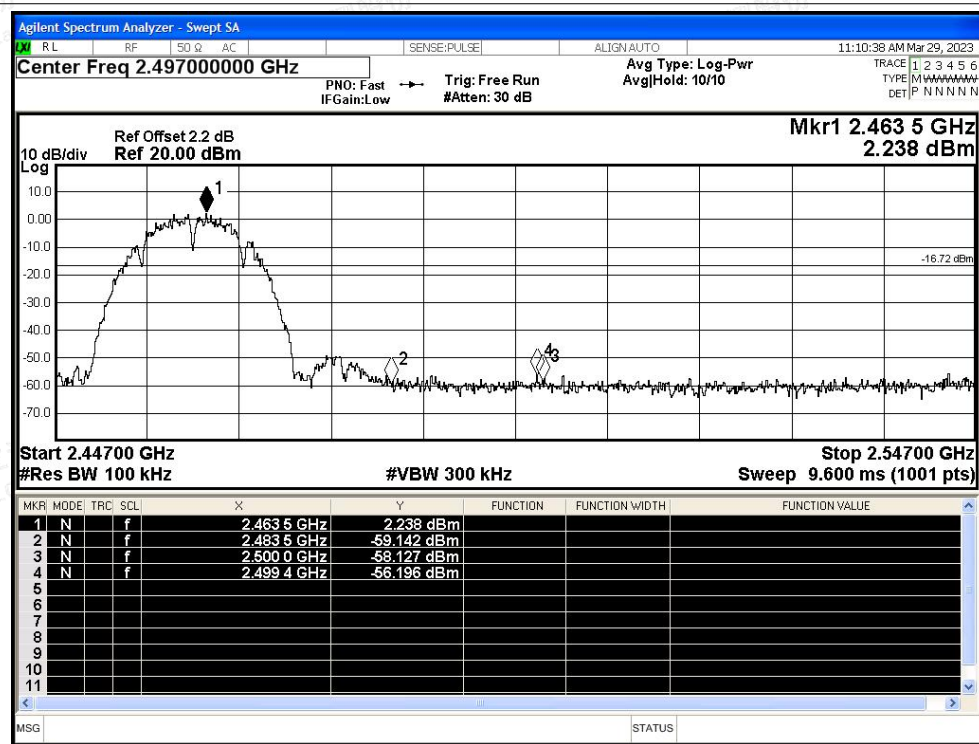




Band Edge NVNT b 2462MHz Ant1 Ref

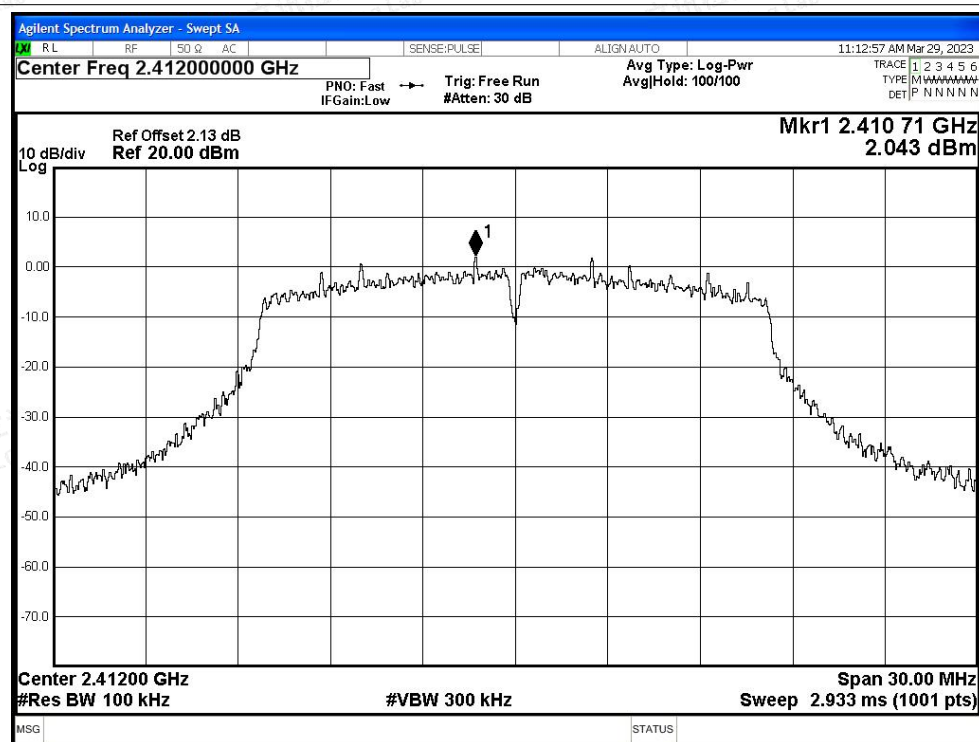


Band Edge NVNT b 2462MHz Ant1 Emission

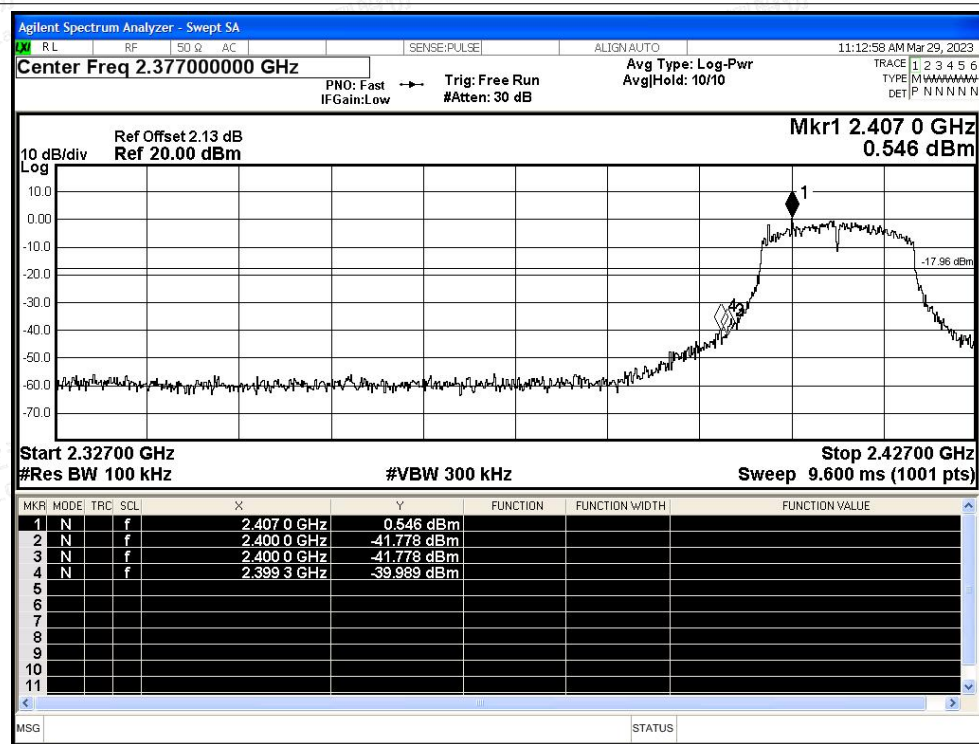




Band Edge NVNT g 2412MHz Ant1 Ref

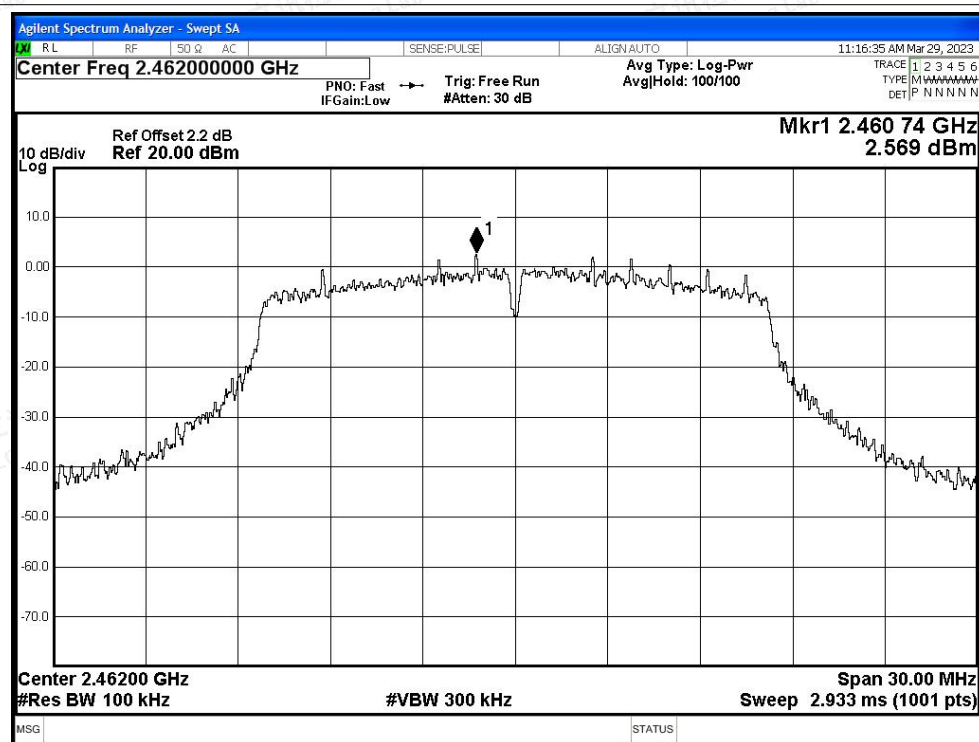


Band Edge NVNT g 2412MHz Ant1 Emission

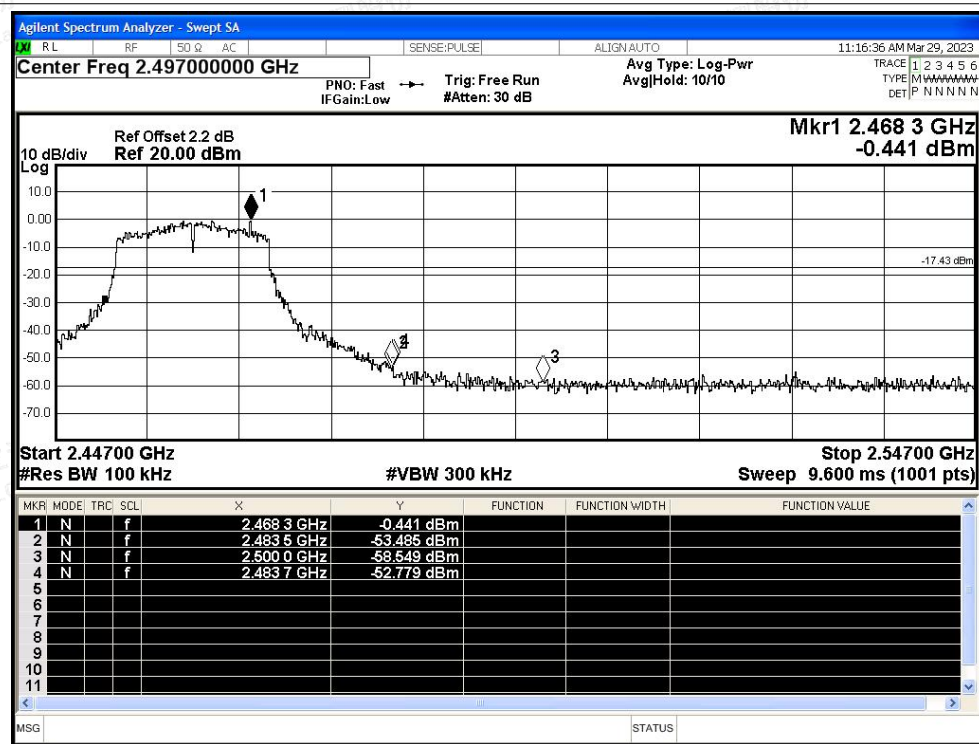




Band Edge NVNT g 2462MHz Ant1 Ref

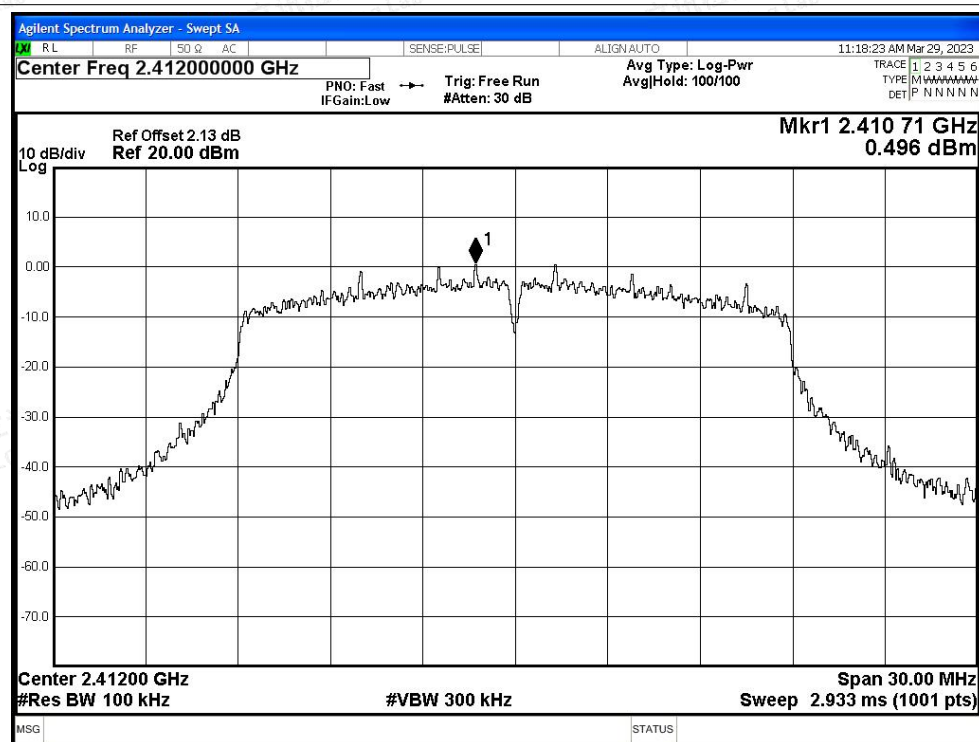


Band Edge NVNT g 2462MHz Ant1 Emission

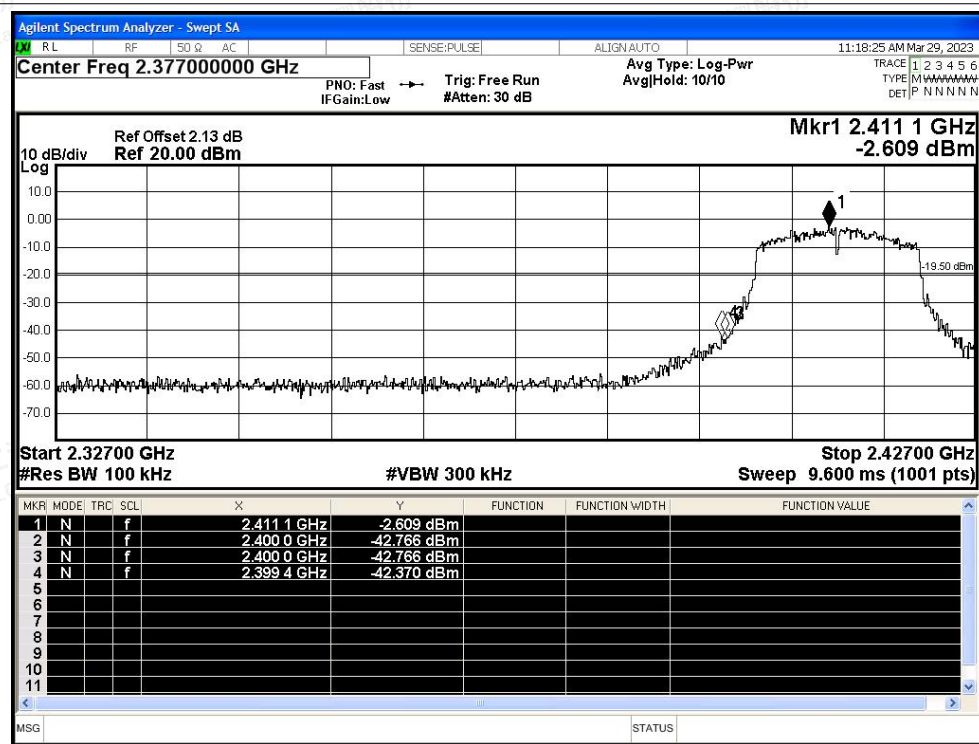




Band Edge NVNT n20 2412MHz Ant1 Ref

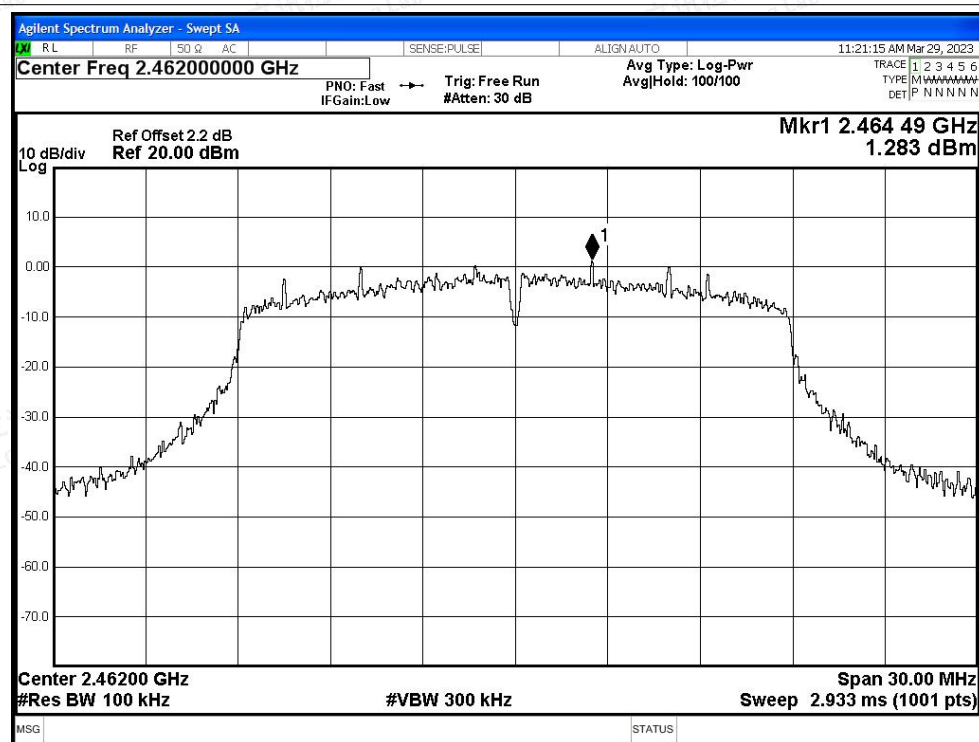


Band Edge NVNT n20 2412MHz Ant1 Emission

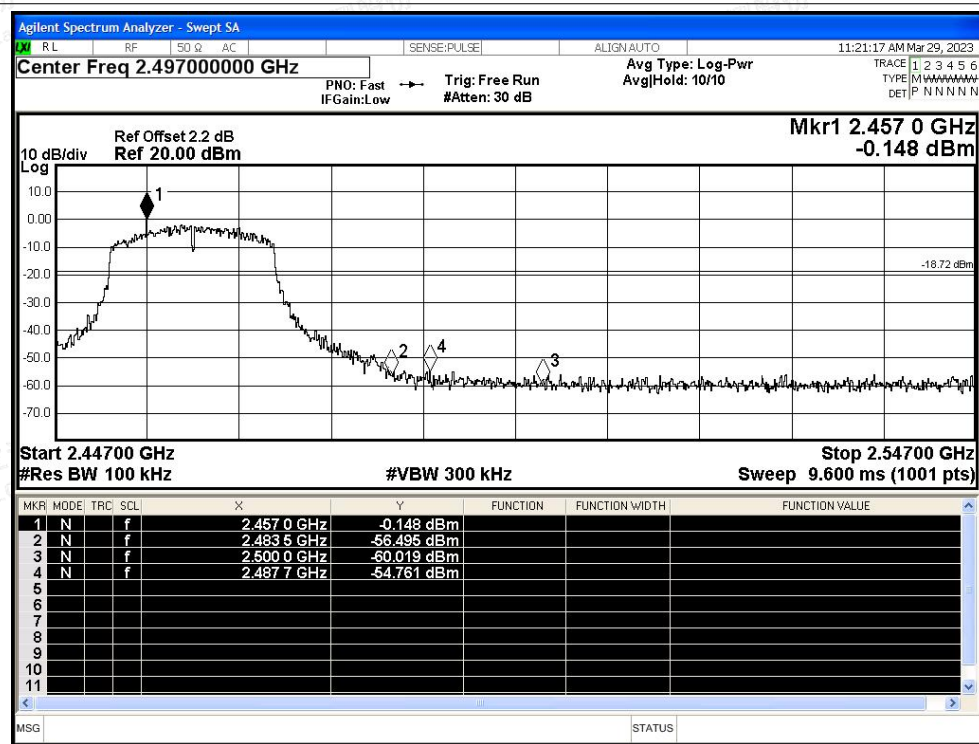




Band Edge NVNT n20 2462MHz Ant1 Ref

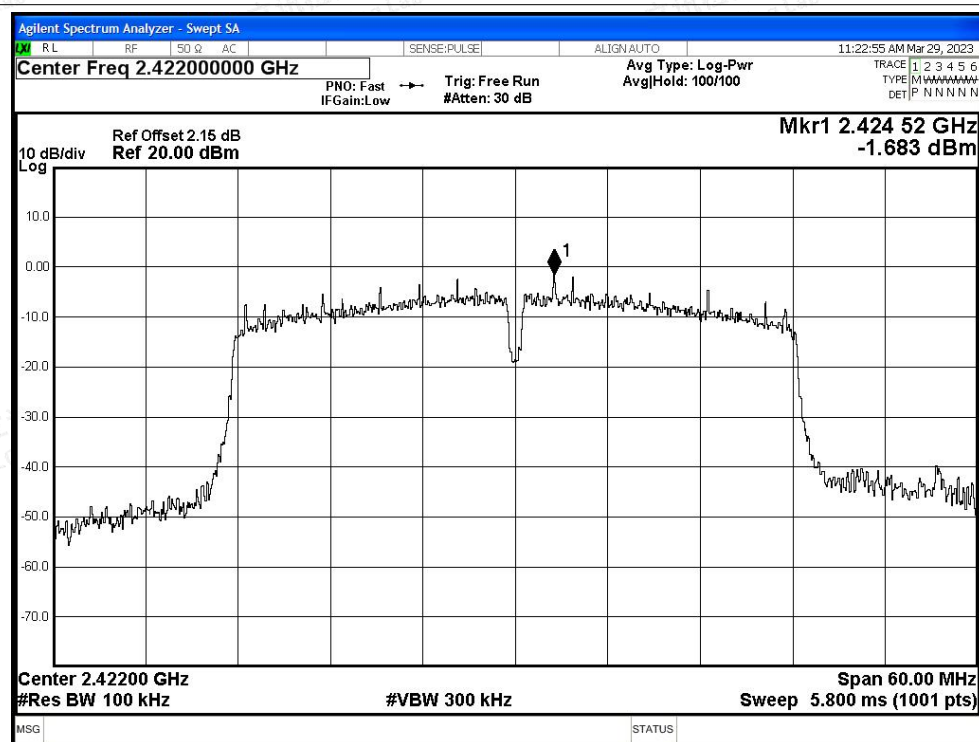


Band Edge NVNT n20 2462MHz Ant1 Emission

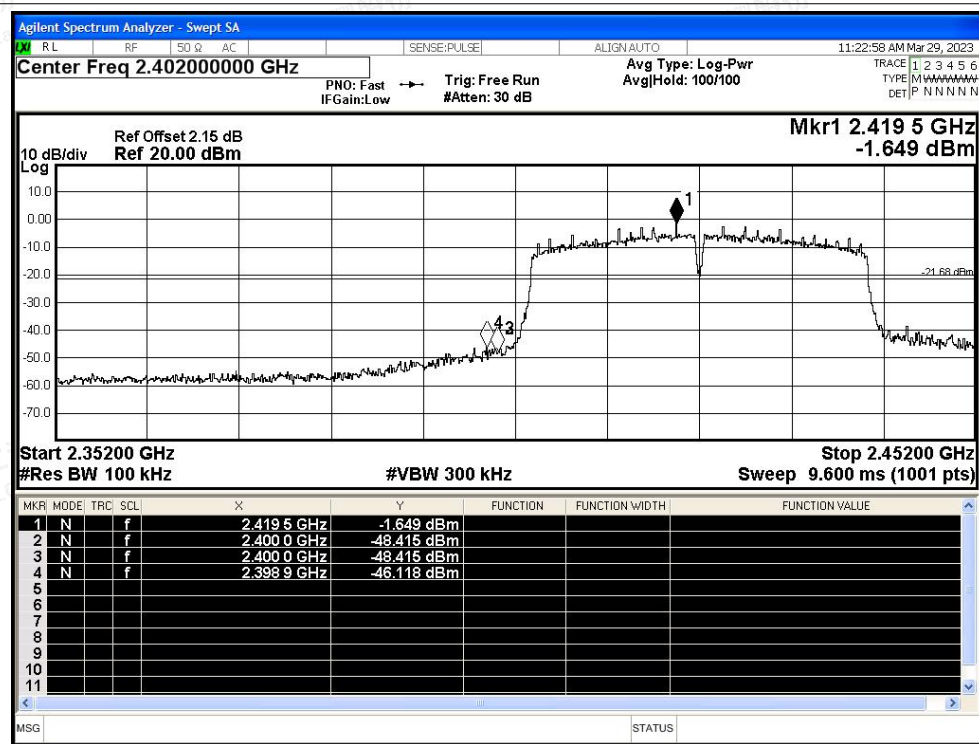




Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission



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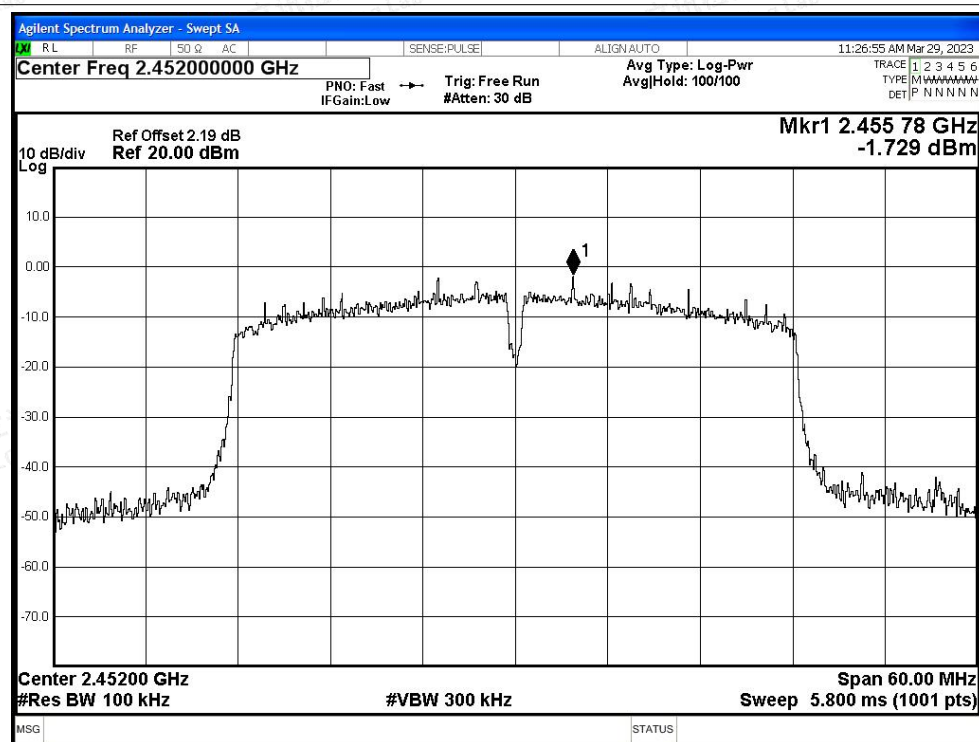
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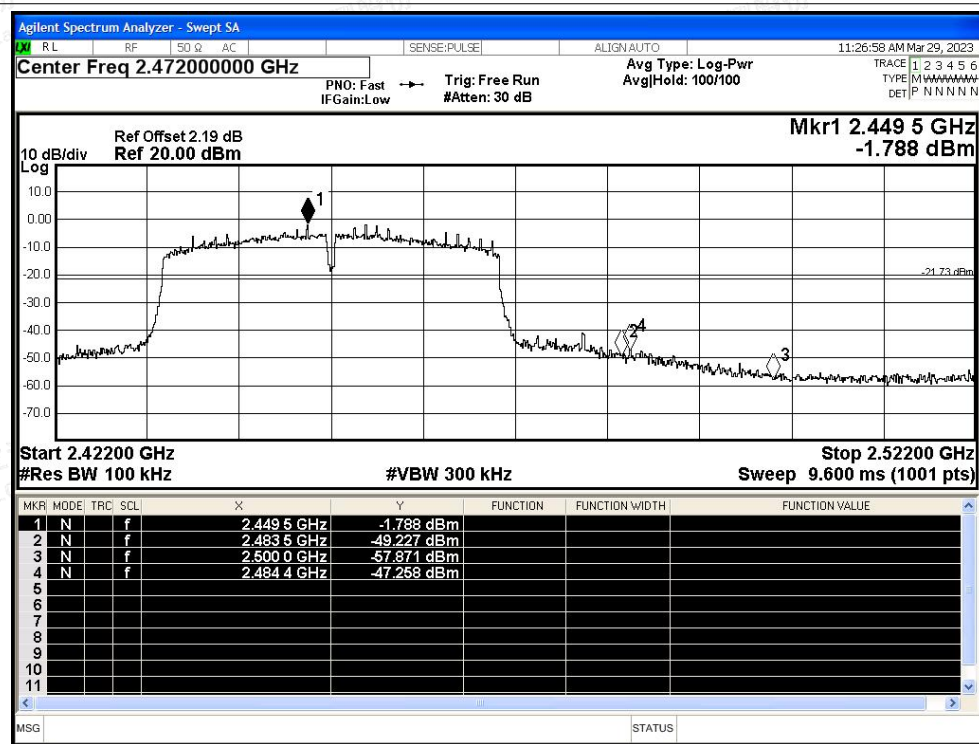
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Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission





A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-48.65	-20	Pass
NVNT	b	2437	Ant1	-48.97	-20	Pass
NVNT	b	2462	Ant1	-48.25	-20	Pass
NVNT	g	2412	Ant1	-48.03	-20	Pass
NVNT	g	2437	Ant1	-47.79	-20	Pass
NVNT	g	2462	Ant1	-45.77	-20	Pass
NVNT	n20	2412	Ant1	-46.31	-20	Pass
NVNT	n20	2437	Ant1	-47.5	-20	Pass
NVNT	n20	2462	Ant1	-46.65	-20	Pass
NVNT	n40	2422	Ant1	-42.97	-20	Pass
NVNT	n40	2437	Ant1	-44.27	-20	Pass
NVNT	n40	2452	Ant1	-41.96	-20	Pass

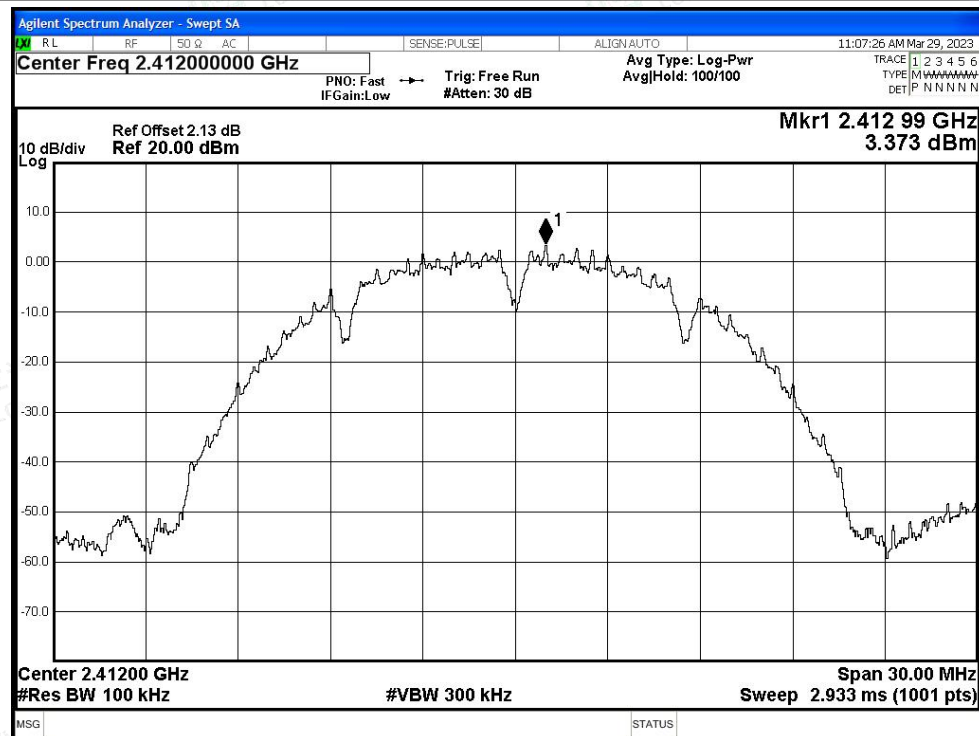


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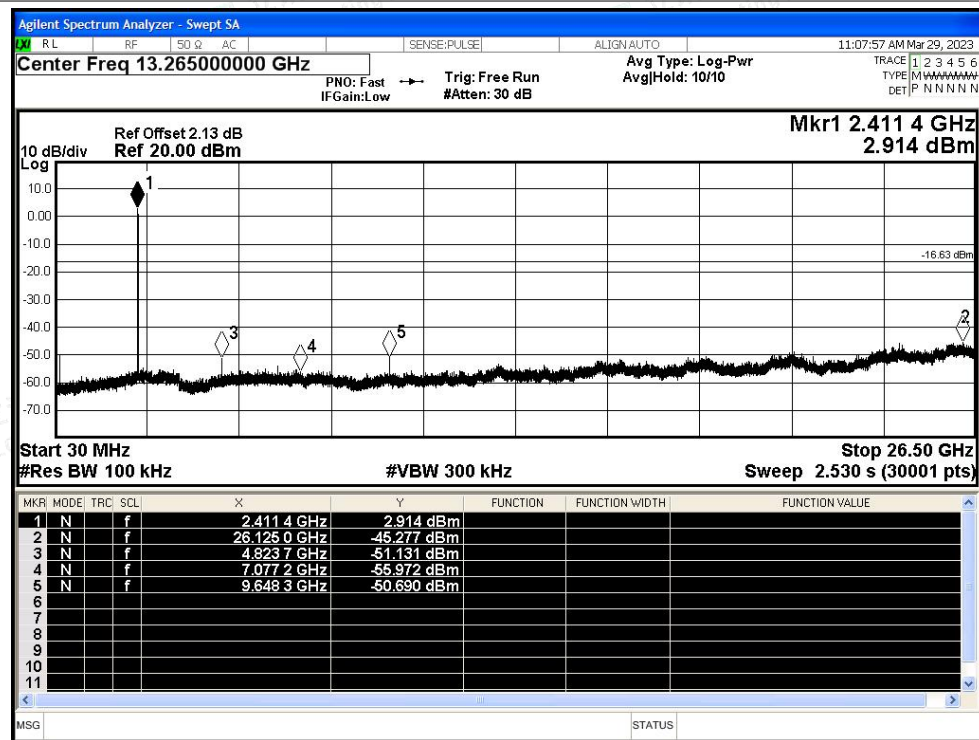


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref

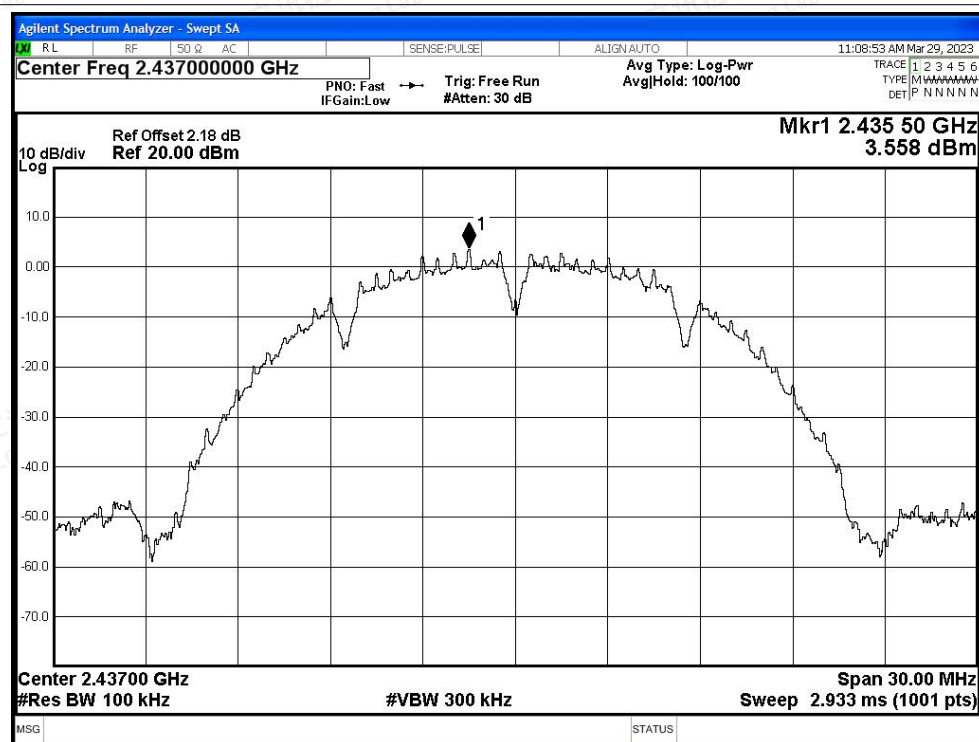


Tx. Spurious NVNT b 2412MHz Ant1 Emission





Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission

