



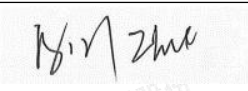
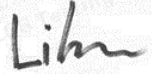
Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: smart floor lamp

Test Model: MX-3281

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Bill Zhu
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	7.746	0.5	Pass
NVNT	b	2437	Ant1	6.511	0.5	Pass
NVNT	b	2462	Ant1	8.324	0.5	Pass
NVNT	g	2412	Ant1	10.448	0.5	Pass
NVNT	g	2437	Ant1	14.44	0.5	Pass
NVNT	g	2462	Ant1	15.043	0.5	Pass
NVNT	n20	2412	Ant1	11.99	0.5	Pass
NVNT	n20	2437	Ant1	17.526	0.5	Pass
NVNT	n20	2462	Ant1	11.377	0.5	Pass



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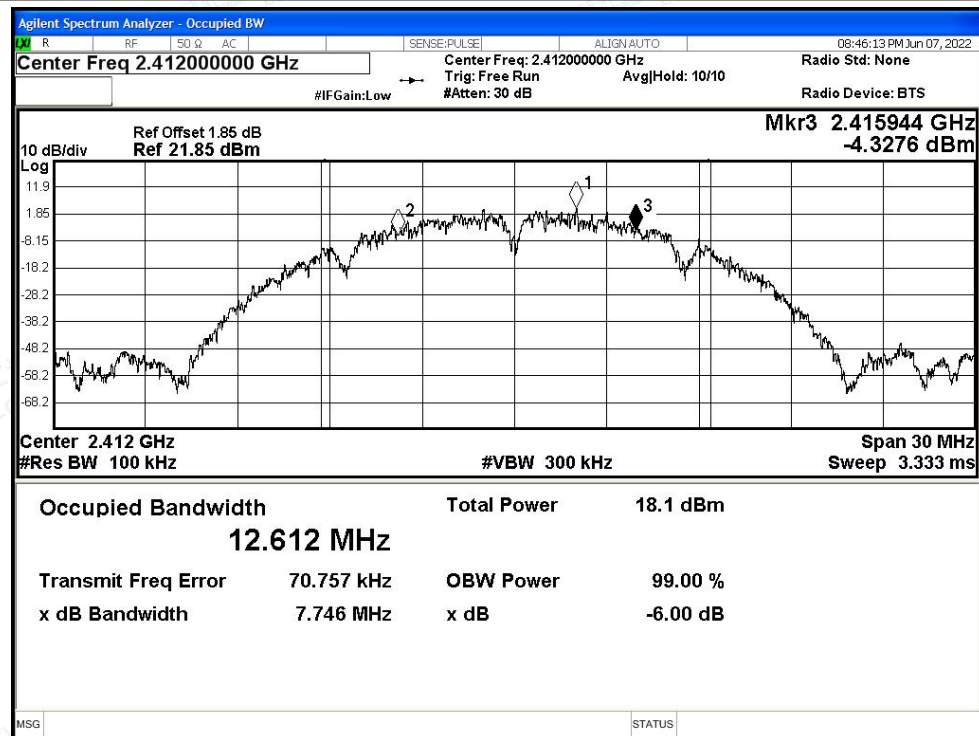
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Test Graphs

6dB Bandwidth NVNT b 2412MHz Ant1



6dB Bandwidth NVNT b 2437MHz Ant1



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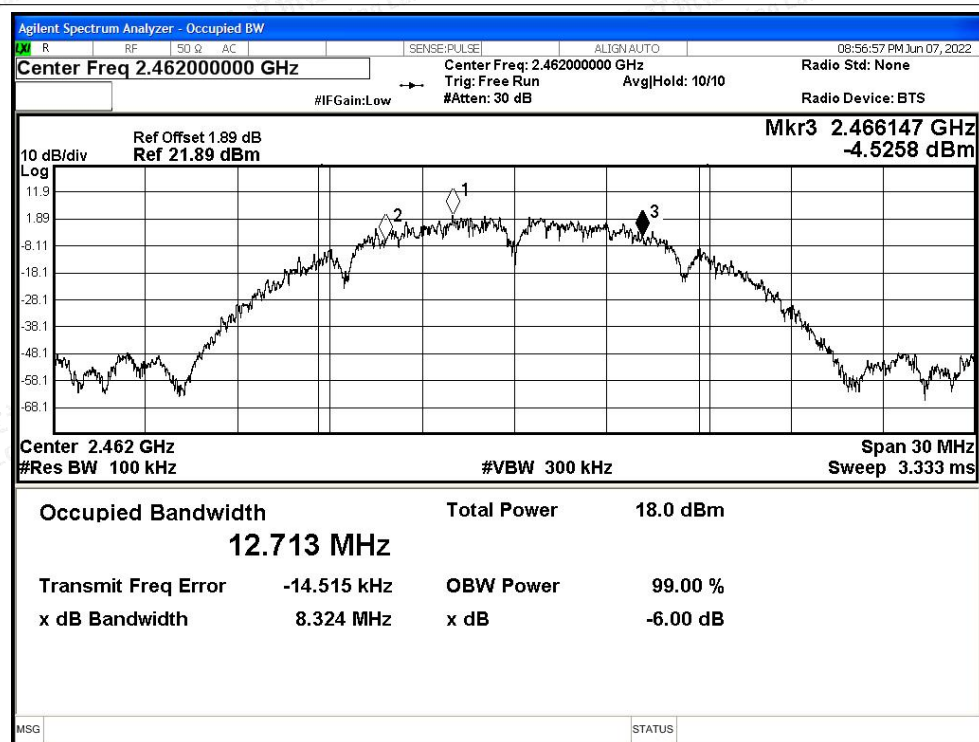
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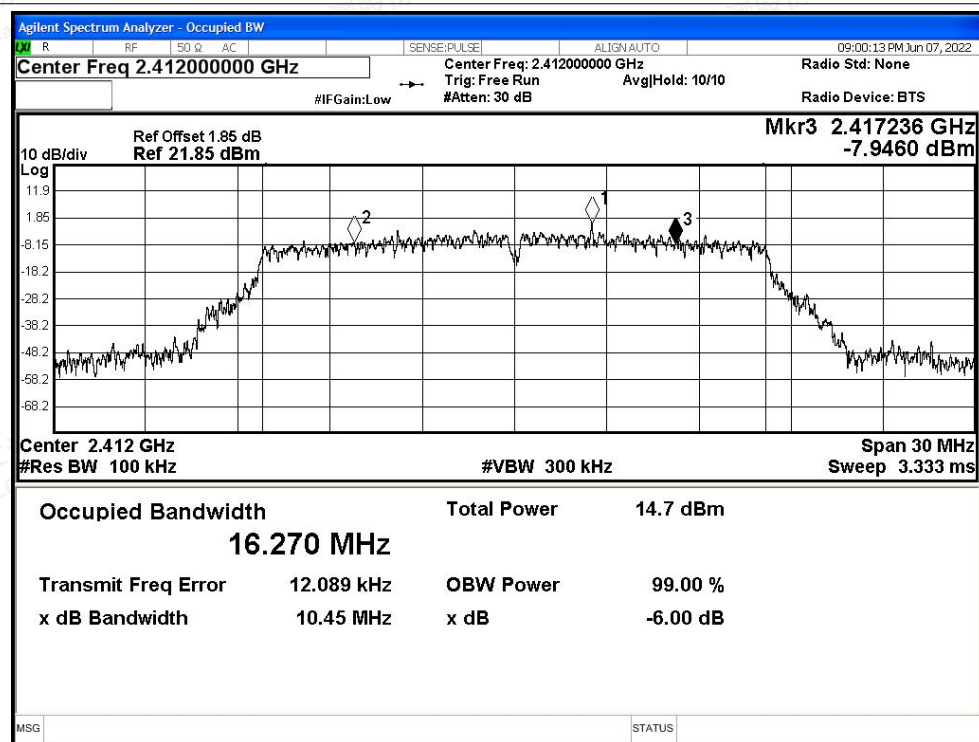
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6dB Bandwidth NVNT b 2462MHz Ant1



6dB Bandwidth NVNT g 2412MHz Ant1



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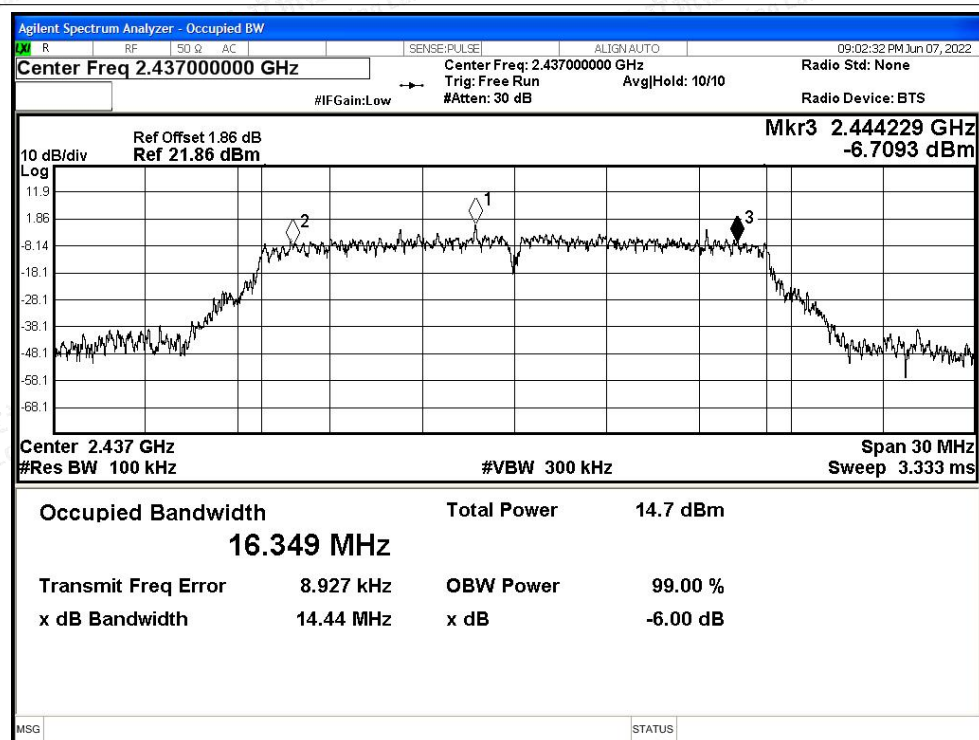
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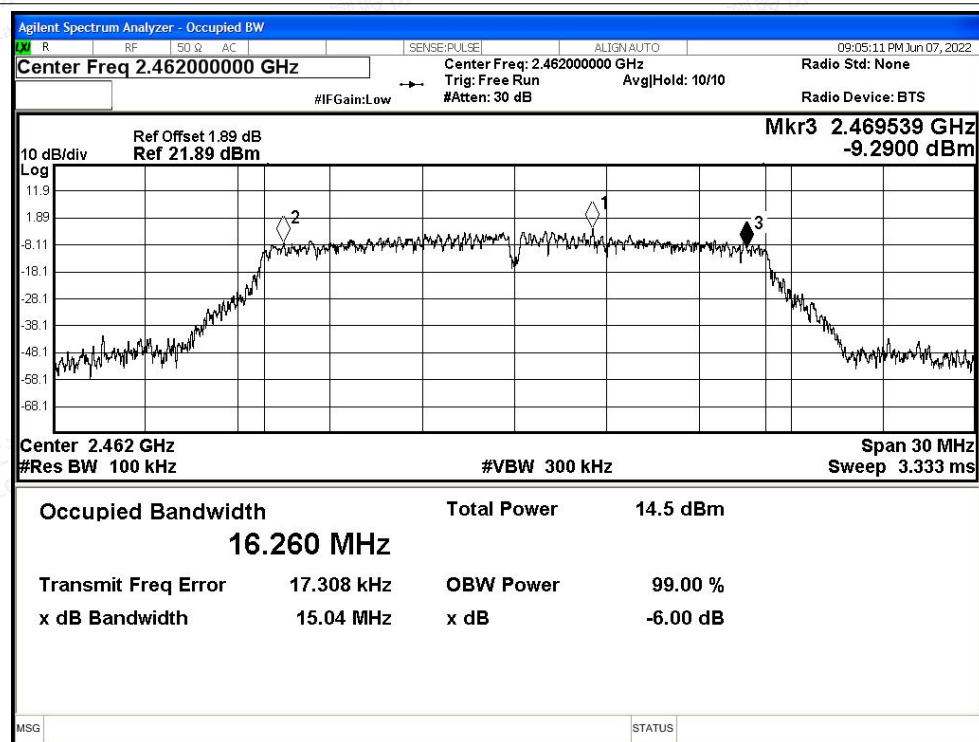
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6dB Bandwidth NVNT g 2437MHz Ant1



6dB Bandwidth NVNT g 2462MHz Ant1



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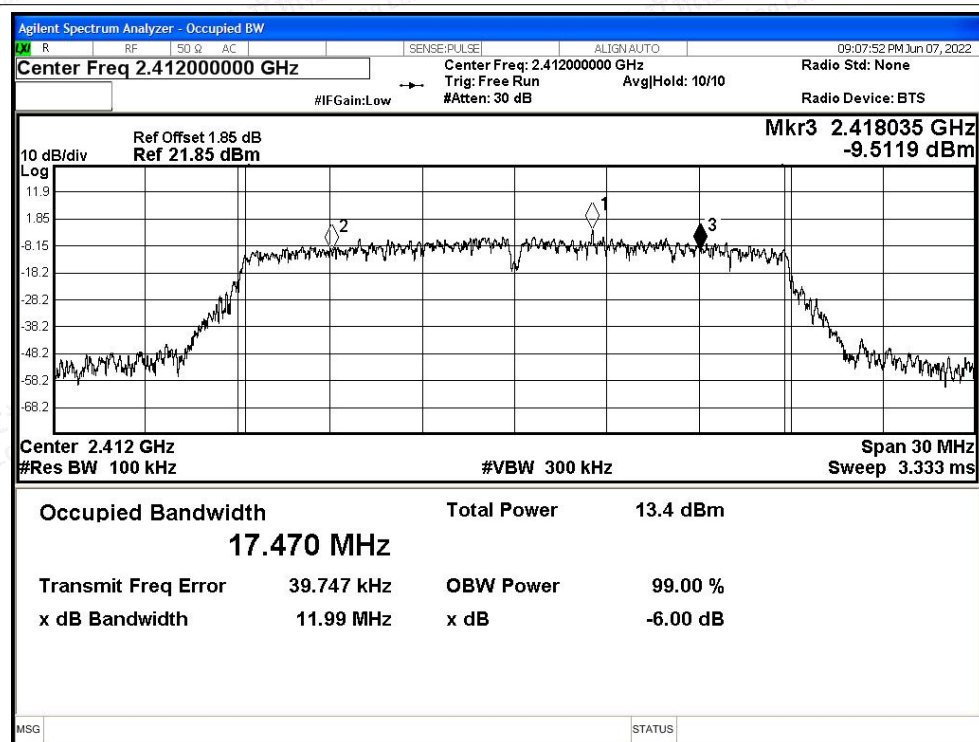
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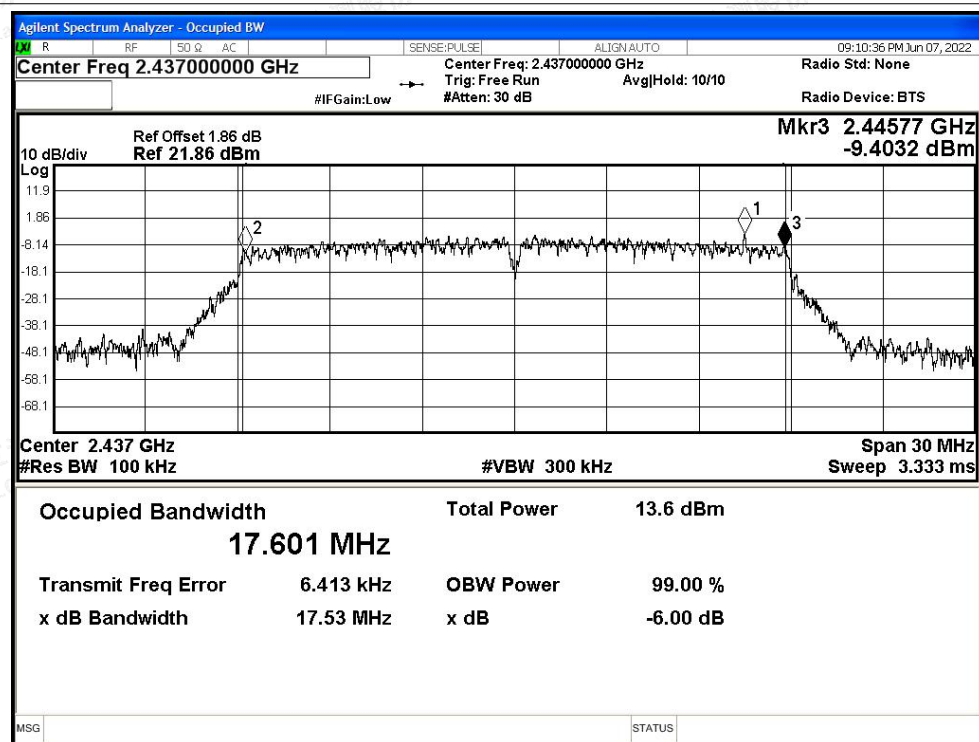
Scan code to check authenticity



6dB Bandwidth NVNT n20 2412MHz Ant1



6dB Bandwidth NVNT n20 2437MHz Ant1

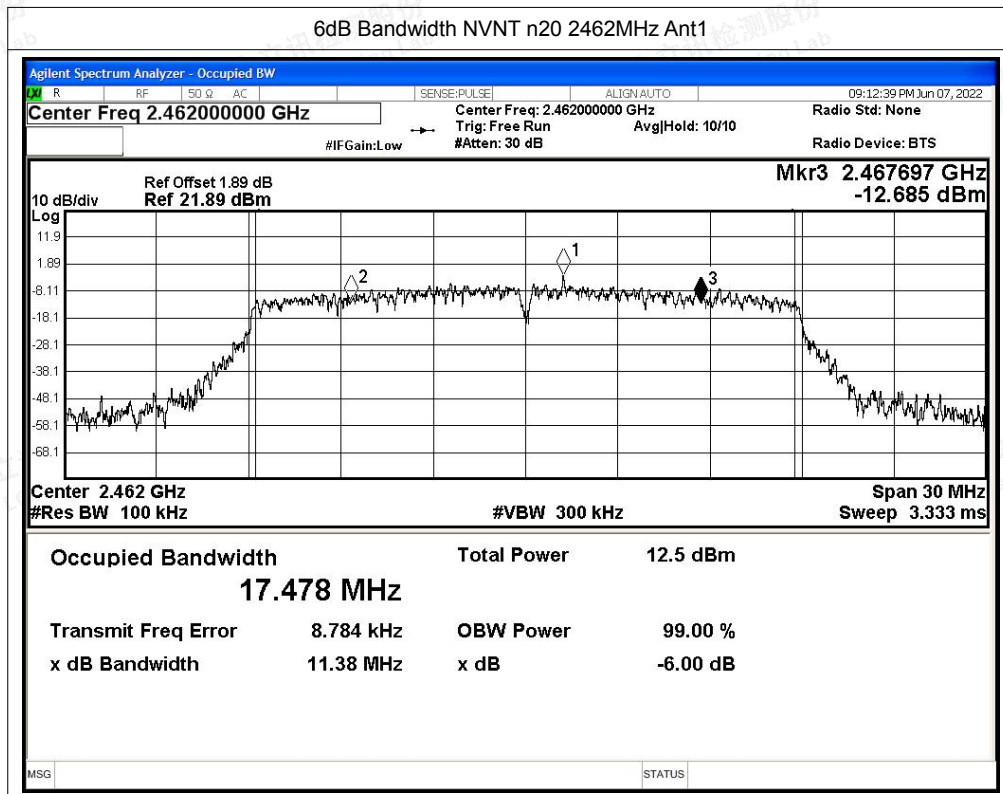


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B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	14.45	30	Pass
NVNT	b	2437	Ant1	14.88	30	Pass
NVNT	b	2462	Ant1	14.47	30	Pass
NVNT	g	2412	Ant1	13.28	30	Pass
NVNT	g	2437	Ant1	13.46	30	Pass
NVNT	g	2462	Ant1	13.2	30	Pass
NVNT	n20	2412	Ant1	12.1	30	Pass
NVNT	n20	2437	Ant1	12.41	30	Pass
NVNT	n20	2462	Ant1	12.8	30	Pass



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B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-9.83	0	-9.83	8	Pass
NVNT	b	2437	Ant1	-8.73	0	-8.73	8	Pass
NVNT	b	2462	Ant1	-9.57	0	-9.57	8	Pass
NVNT	g	2412	Ant1	-14.35	0	-14.35	8	Pass
NVNT	g	2437	Ant1	-14.5	0	-14.5	8	Pass
NVNT	g	2462	Ant1	-14.13	0	-14.13	8	Pass
NVNT	n20	2412	Ant1	-16.28	0	-16.28	8	Pass
NVNT	n20	2437	Ant1	-15.33	0	-15.33	8	Pass
NVNT	n20	2462	Ant1	-16.08	0	-16.08	8	Pass



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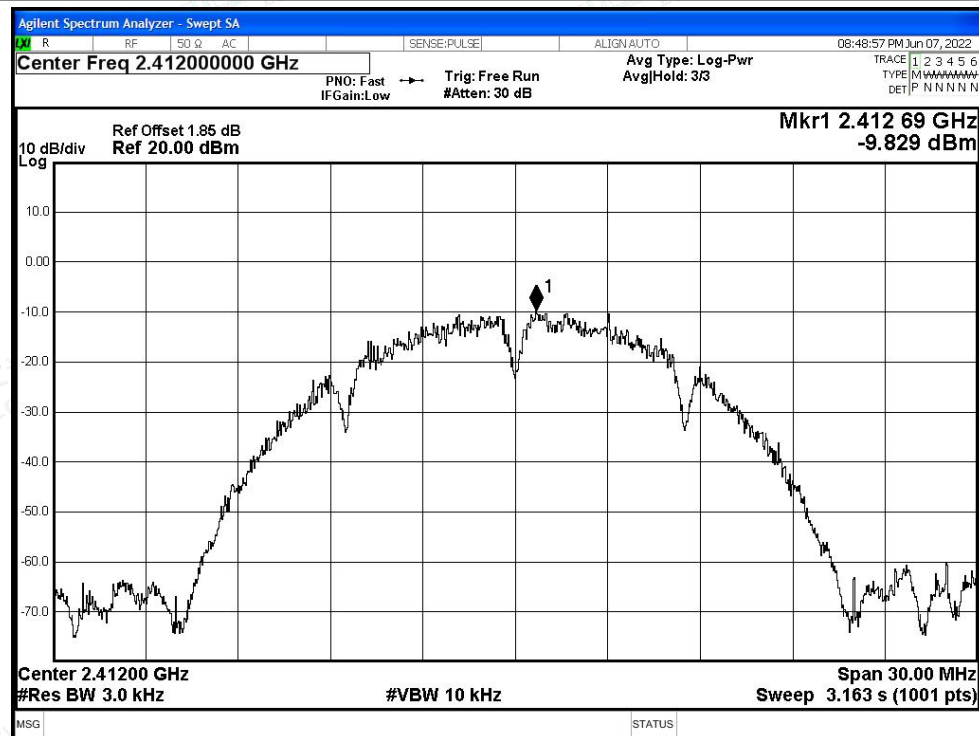
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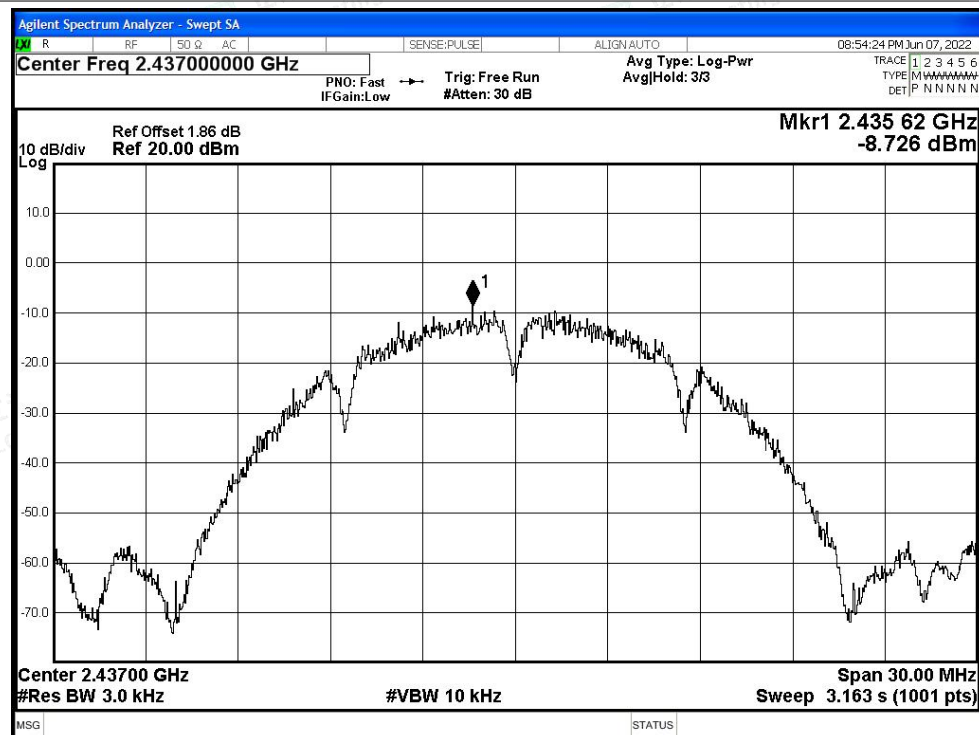


Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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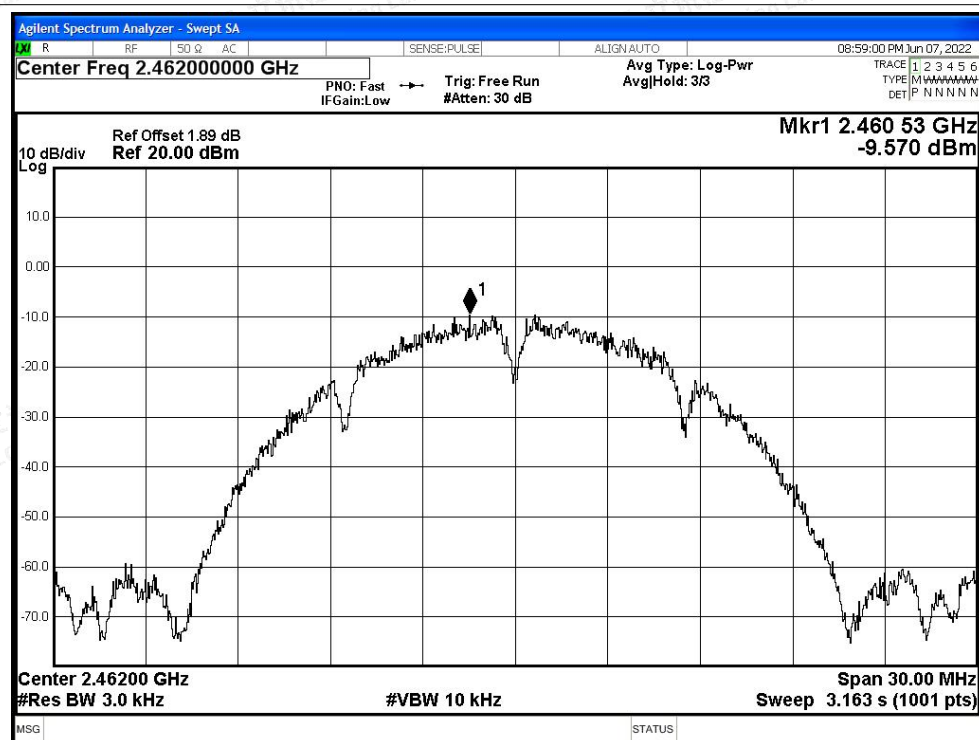
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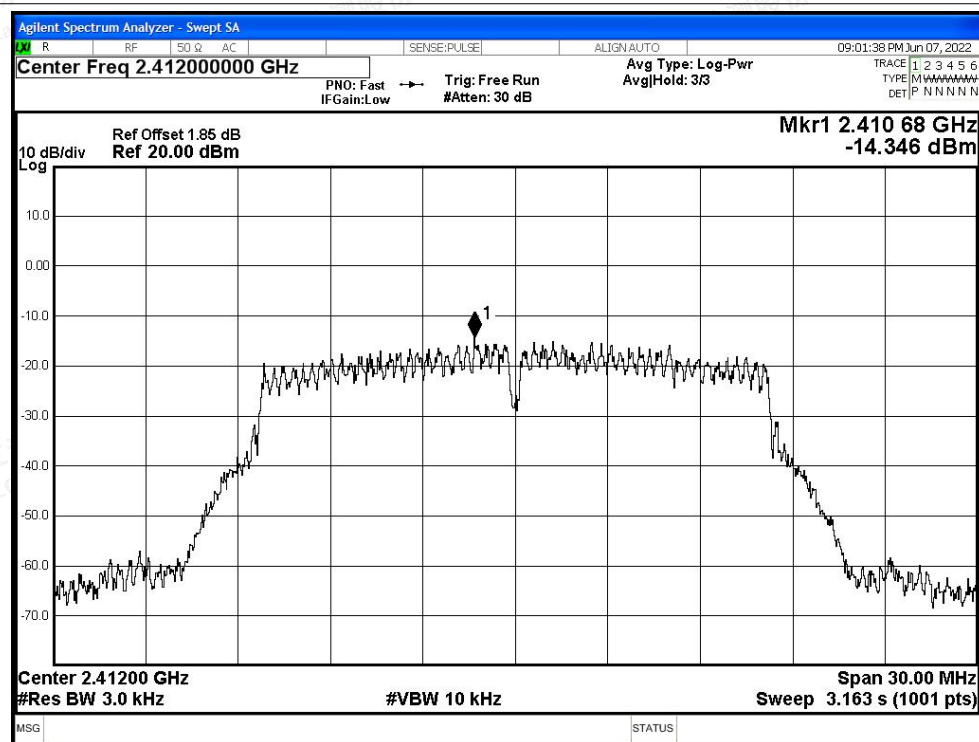
Scan code to check authenticity



PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



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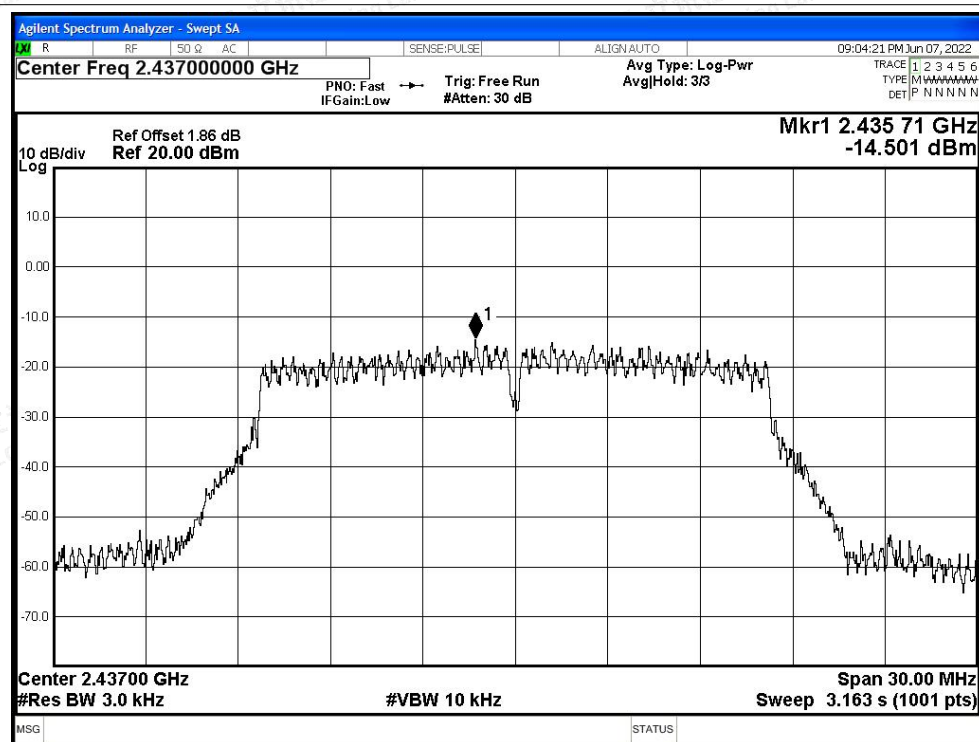
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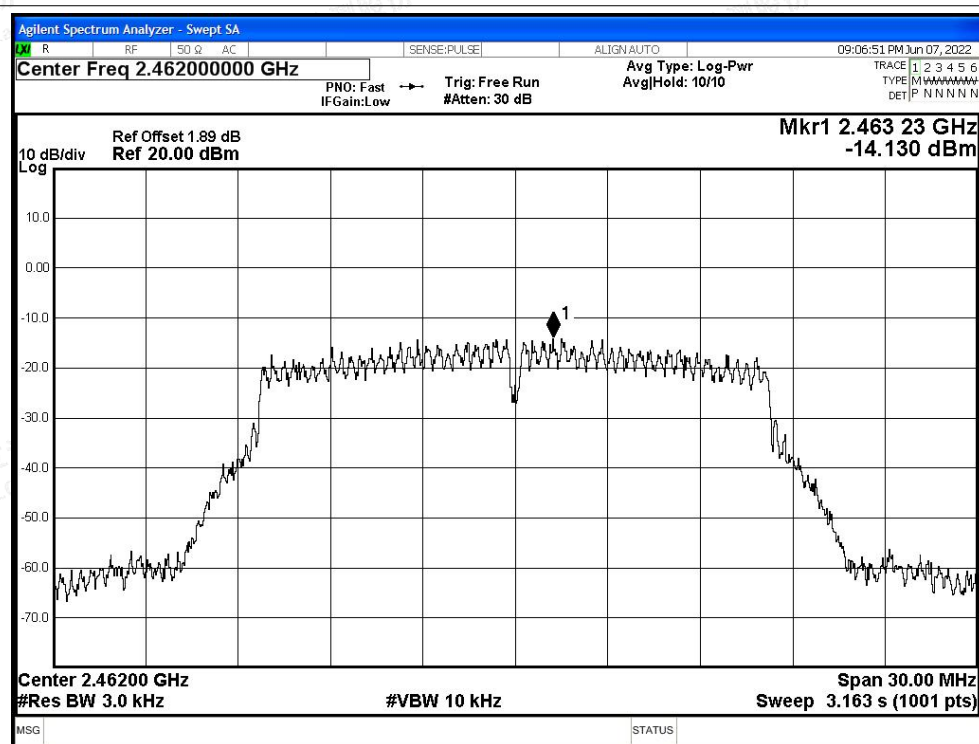
Scan code to check authenticity



PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

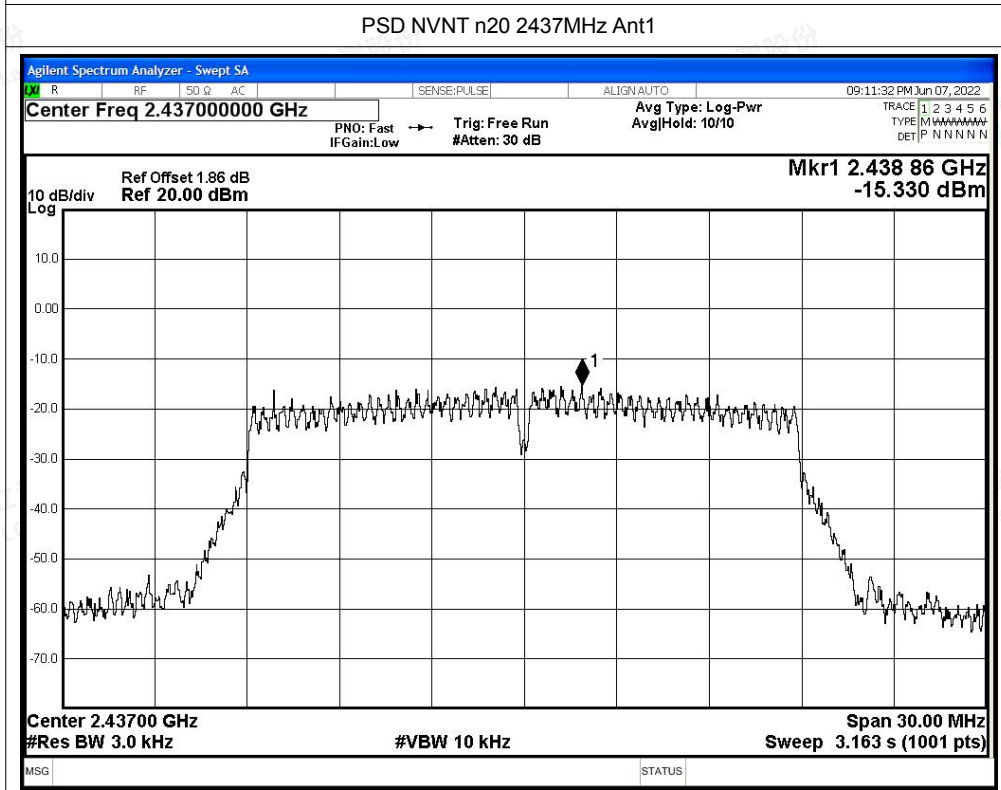
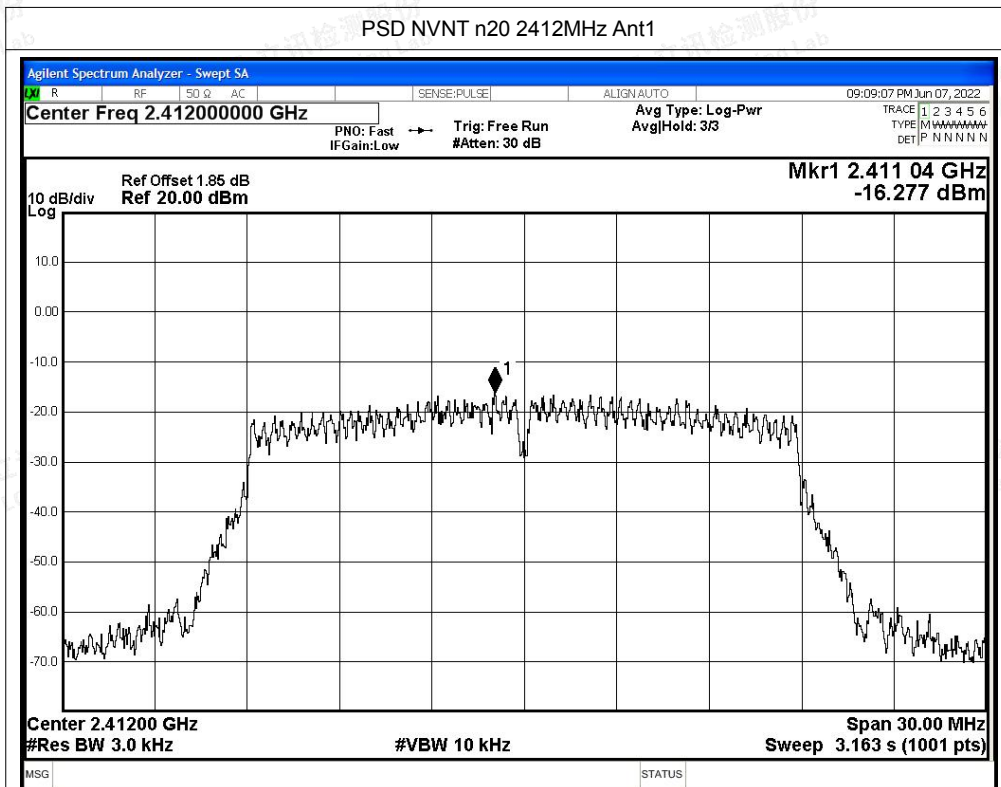


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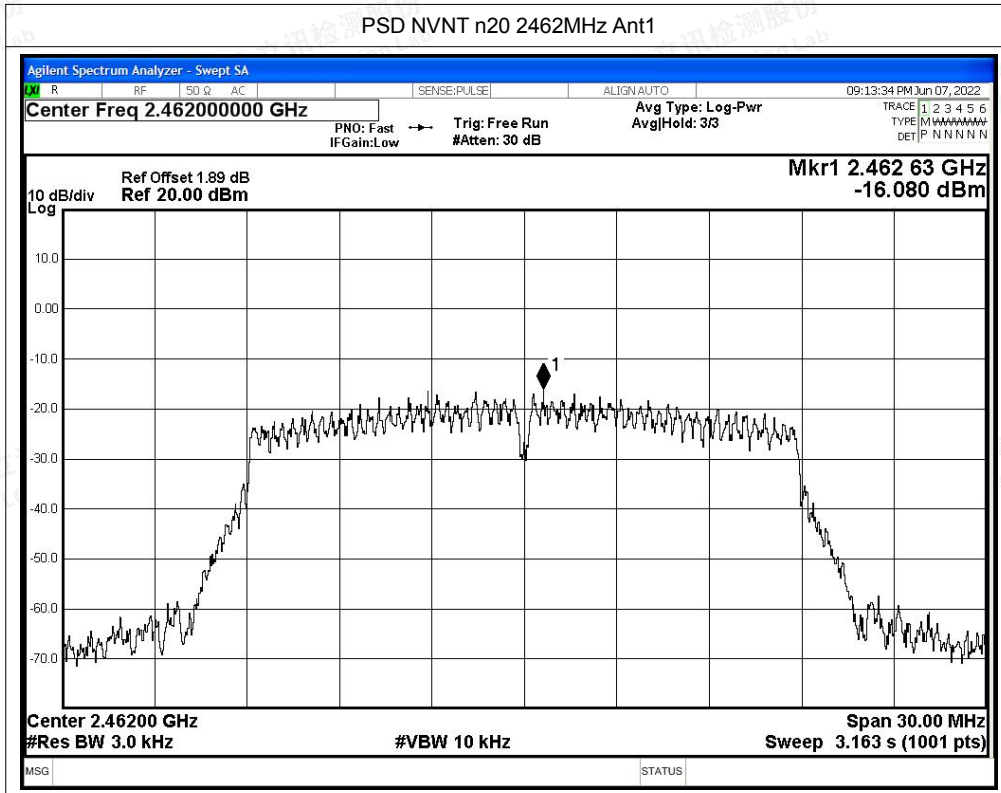


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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-54.31	-20	Pass
NVNT	b	2462	Ant1	-62.5	-20	Pass
NVNT	g	2412	Ant1	-43.17	-20	Pass
NVNT	g	2462	Ant1	-53.3	-20	Pass
NVNT	n20	2412	Ant1	-45.67	-20	Pass
NVNT	n20	2462	Ant1	-53.21	-20	Pass



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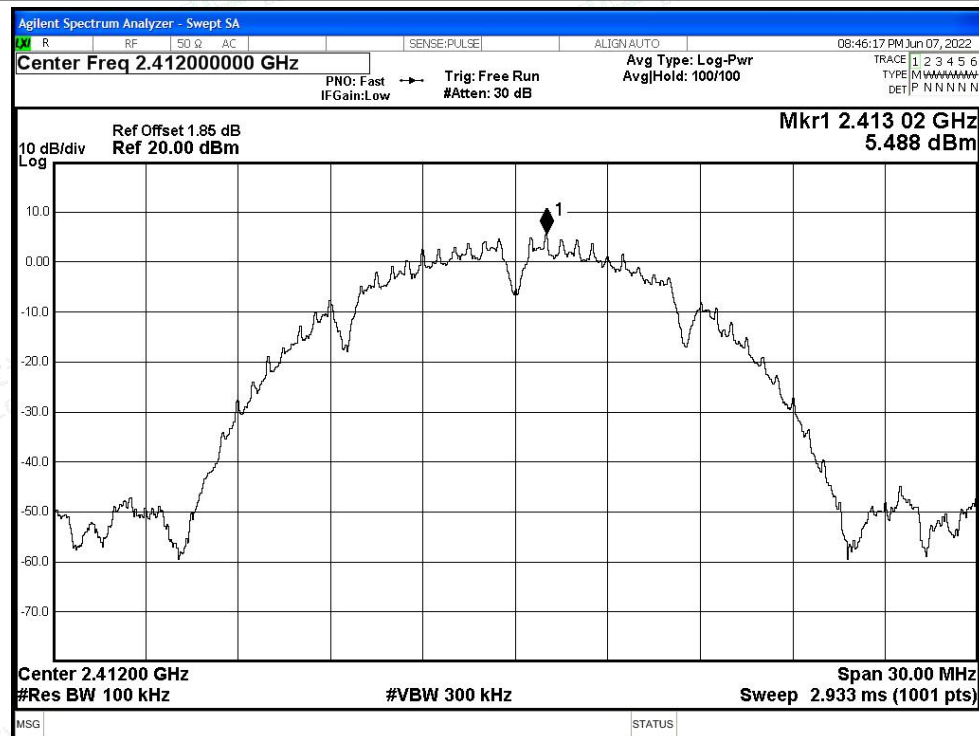
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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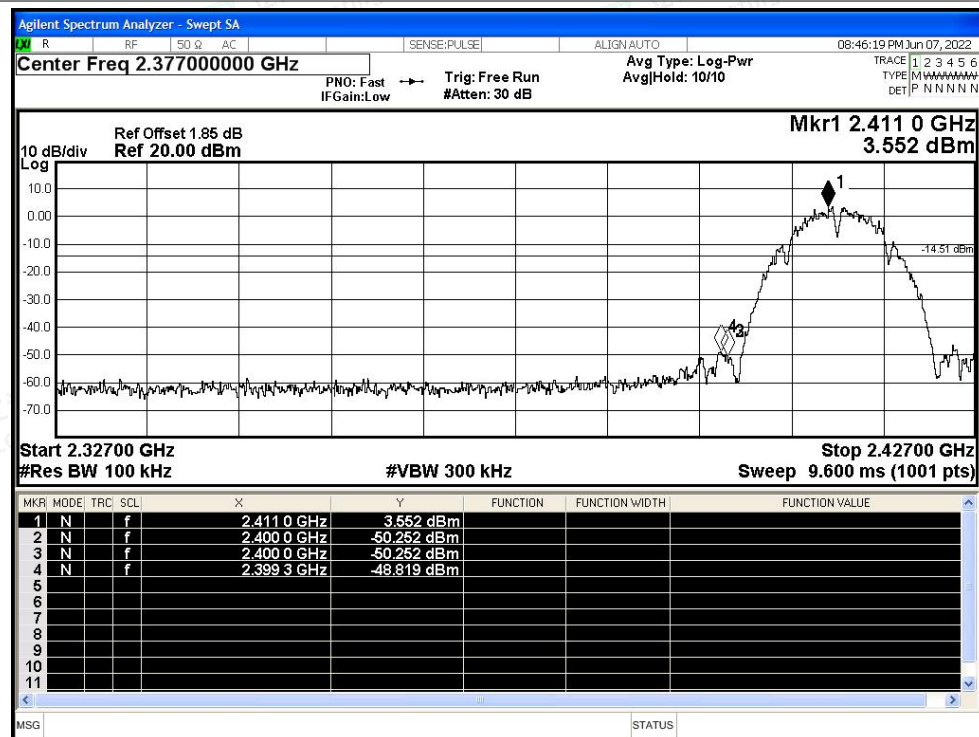


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



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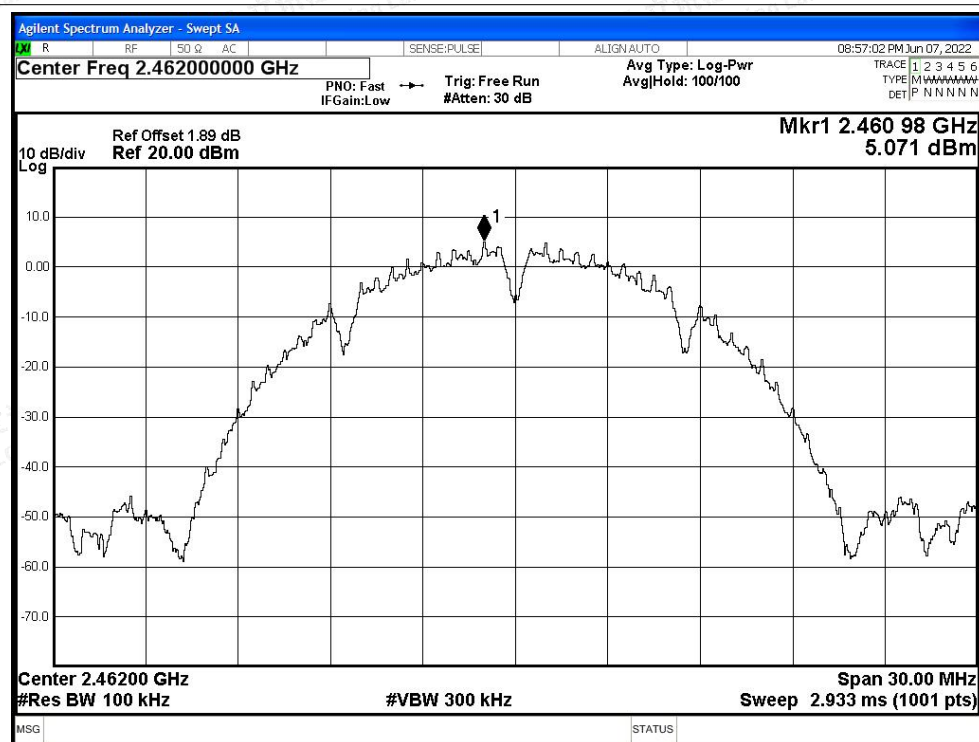
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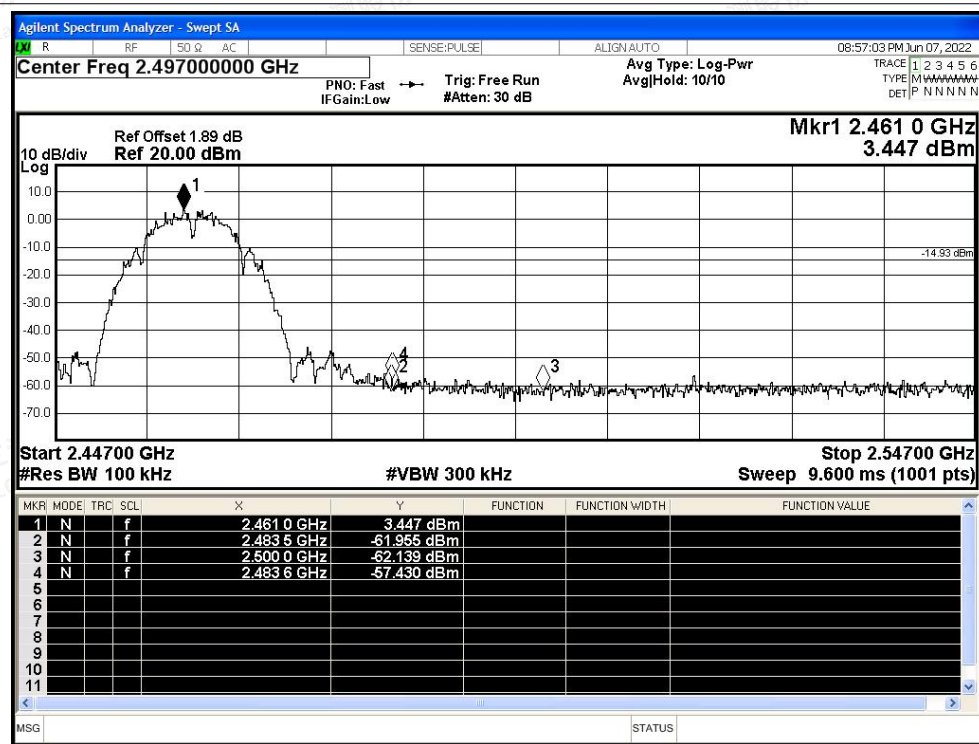
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Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission



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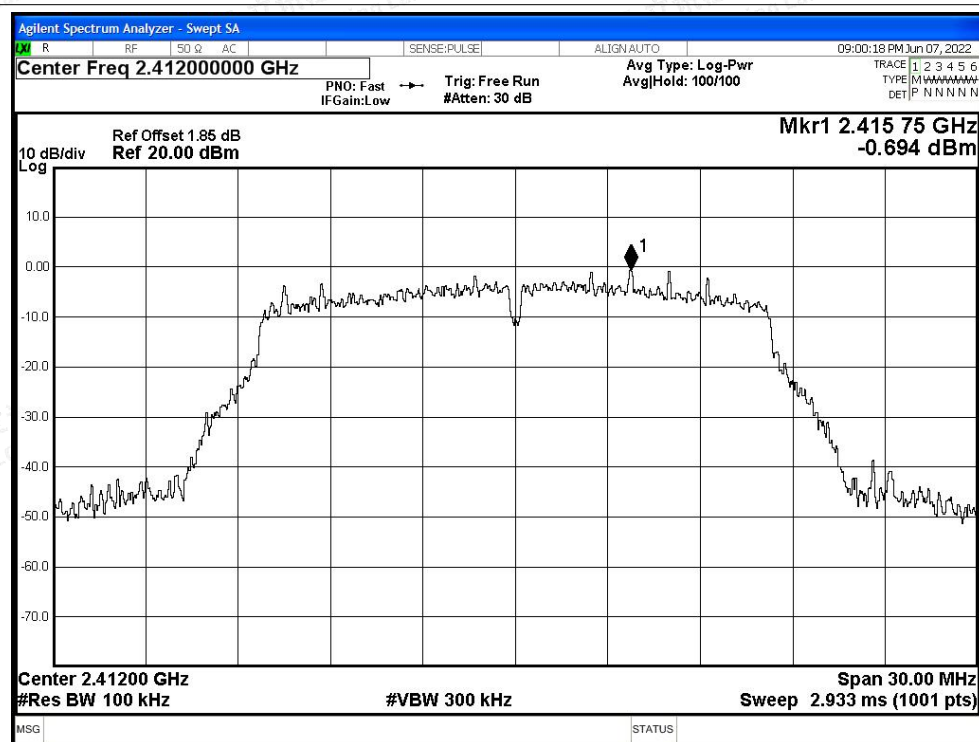
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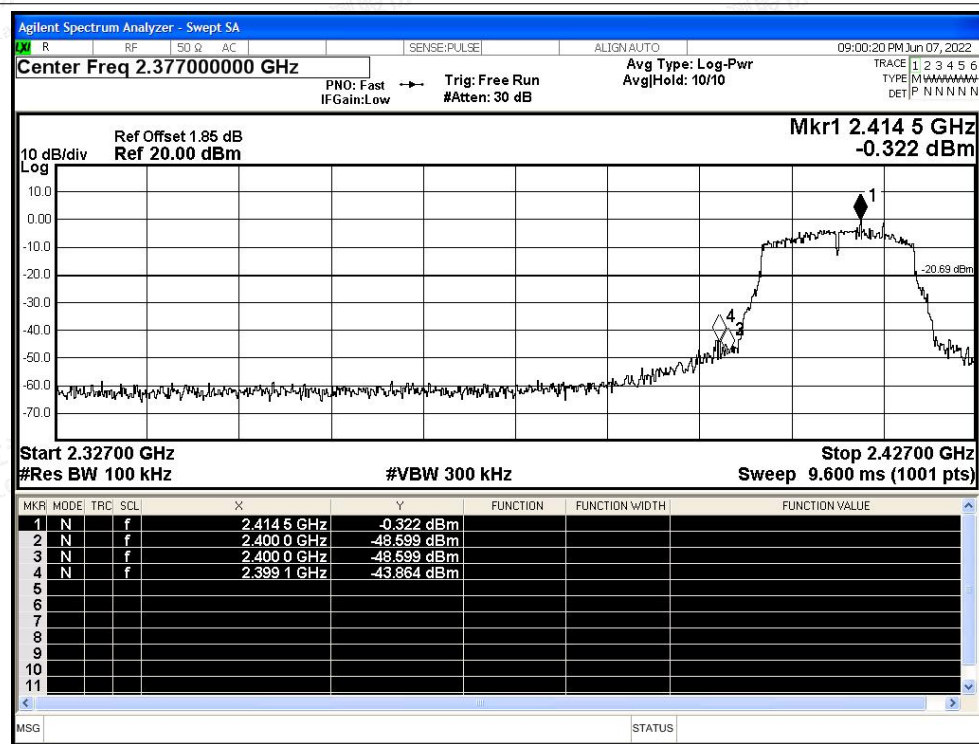
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Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



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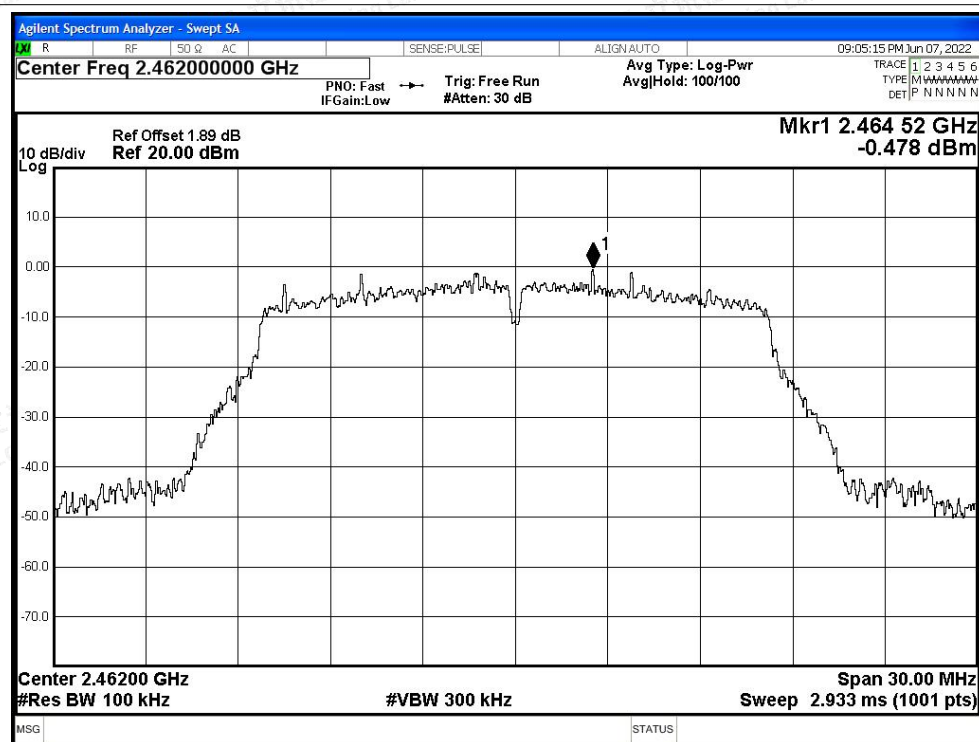
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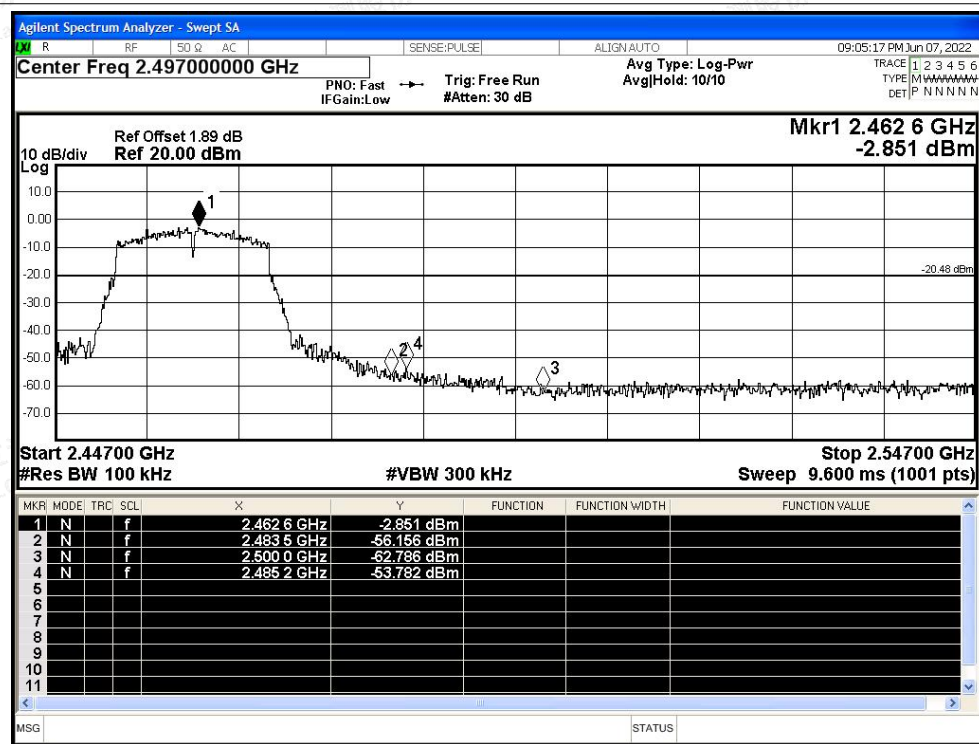
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Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



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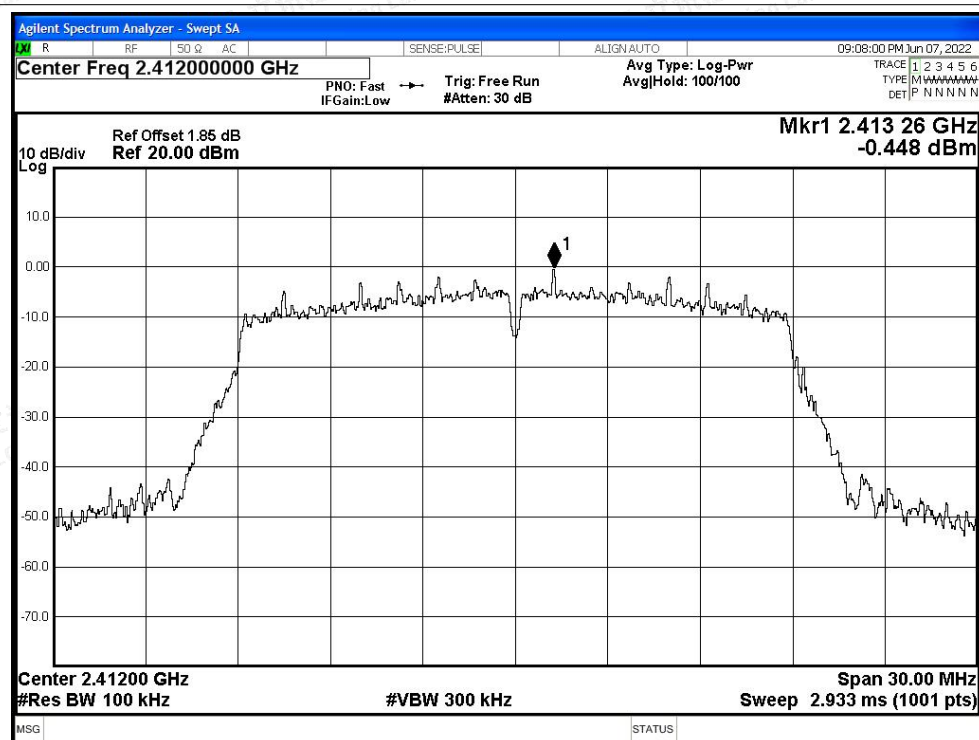
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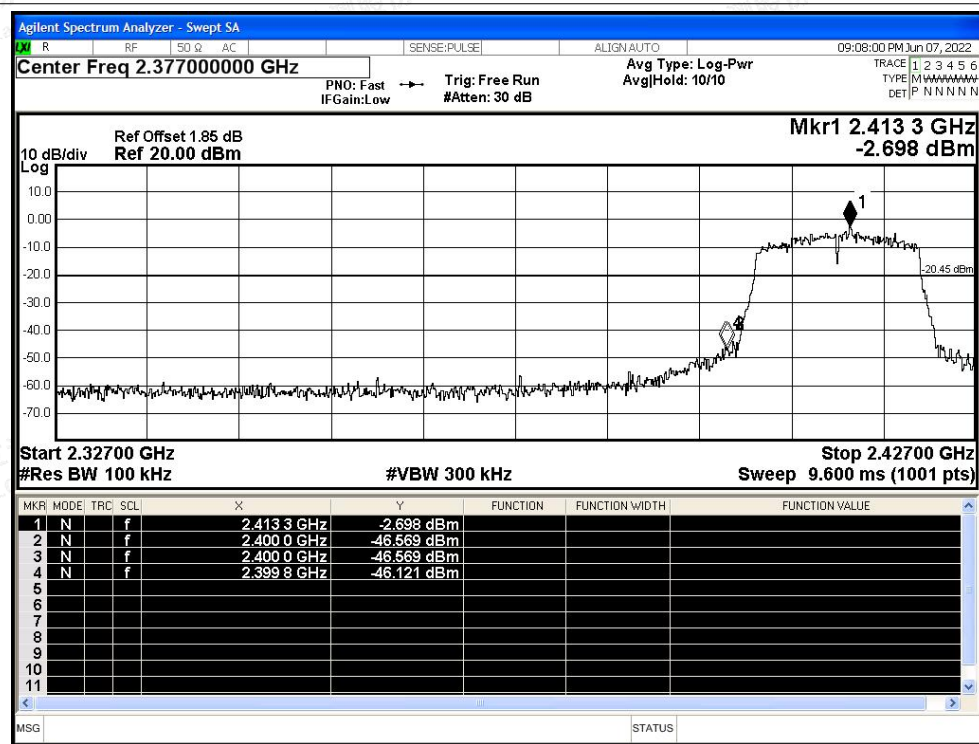
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Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



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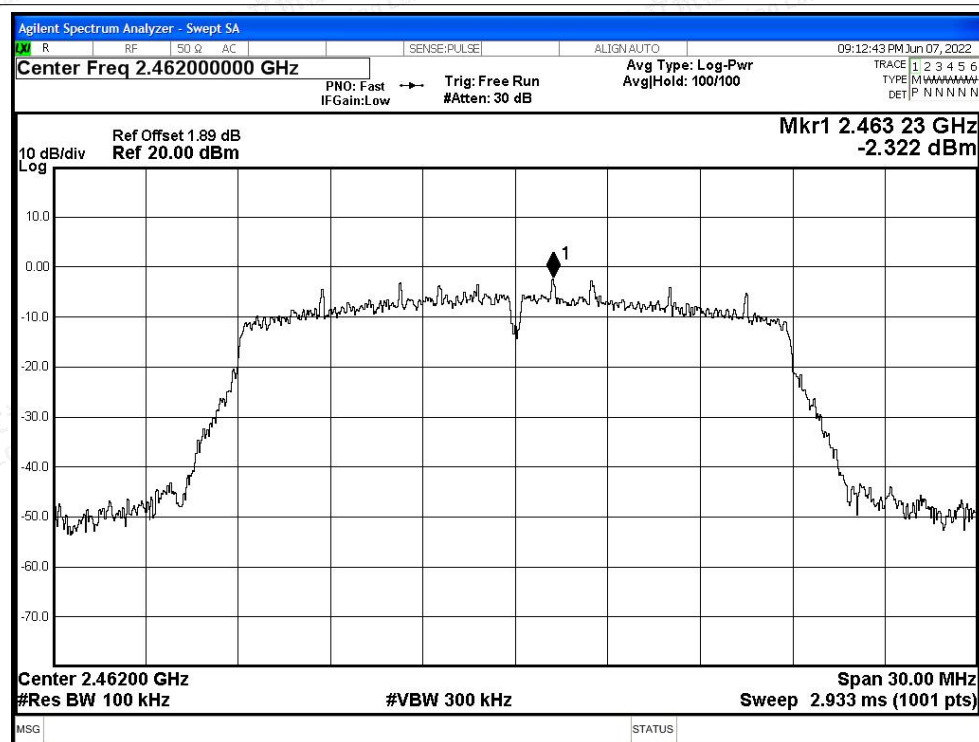
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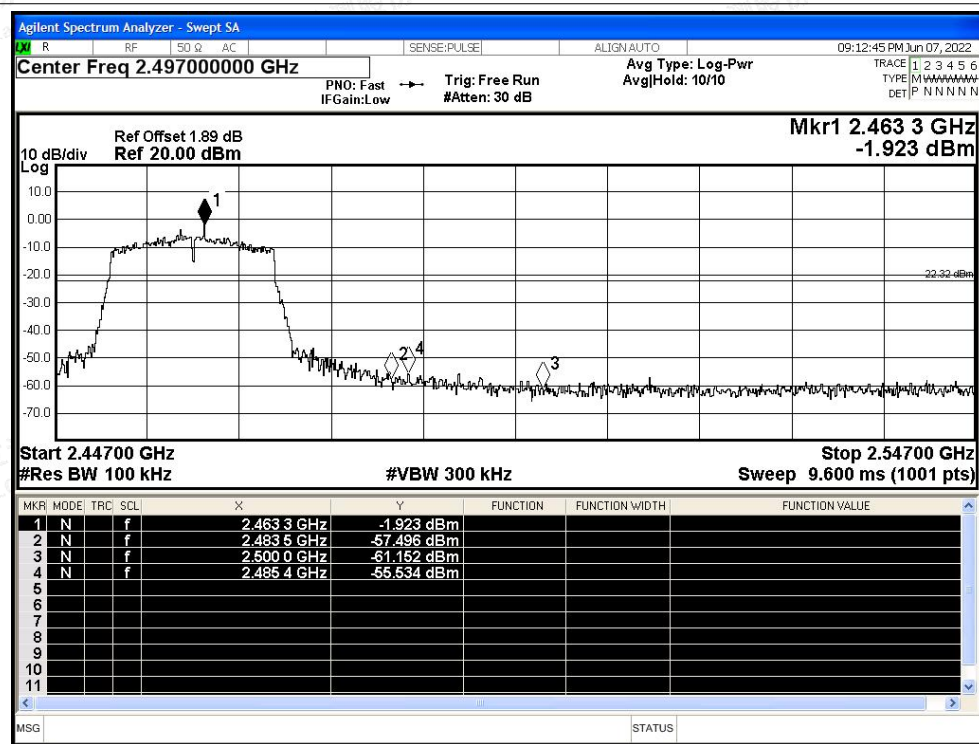
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Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission



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B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.14	-20	Pass
NVNT	b	2437	Ant1	-49.97	-20	Pass
NVNT	b	2462	Ant1	-50.55	-20	Pass
NVNT	g	2412	Ant1	-46.17	-20	Pass
NVNT	g	2437	Ant1	-45.28	-20	Pass
NVNT	g	2462	Ant1	-46.26	-20	Pass
NVNT	n20	2412	Ant1	-45.65	-20	Pass
NVNT	n20	2437	Ant1	-45.18	-20	Pass
NVNT	n20	2462	Ant1	-44.69	-20	Pass



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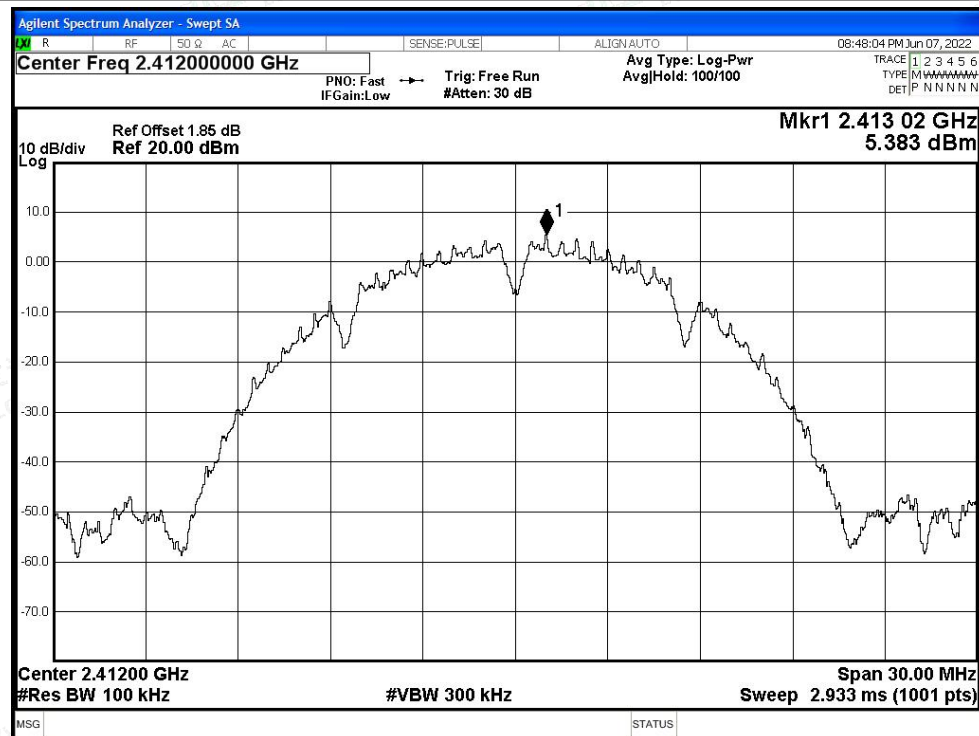
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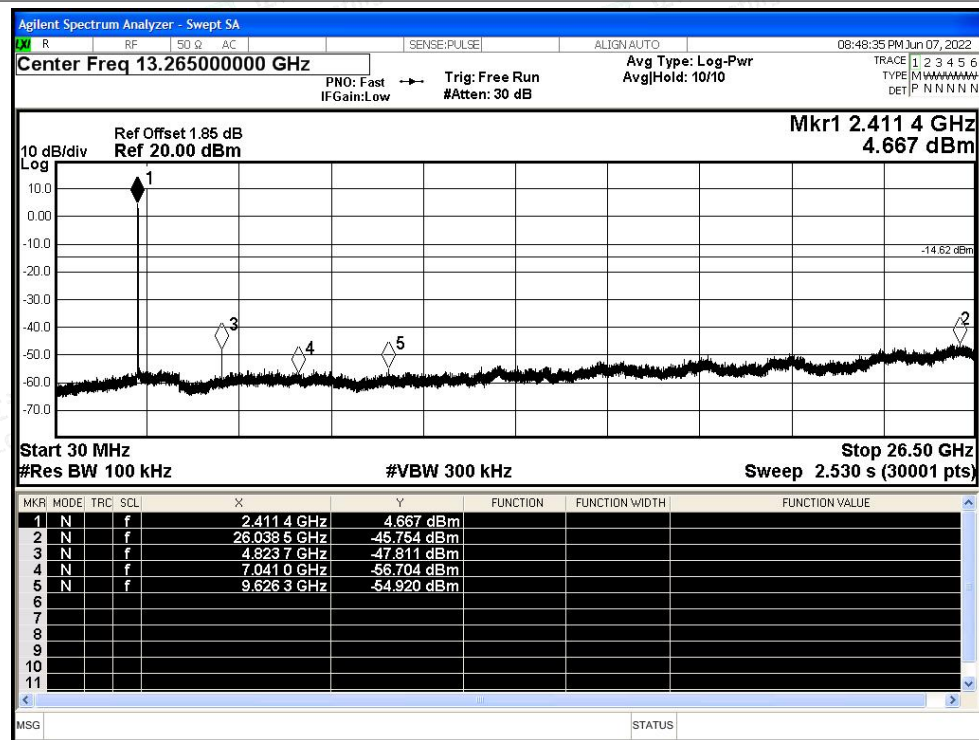


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



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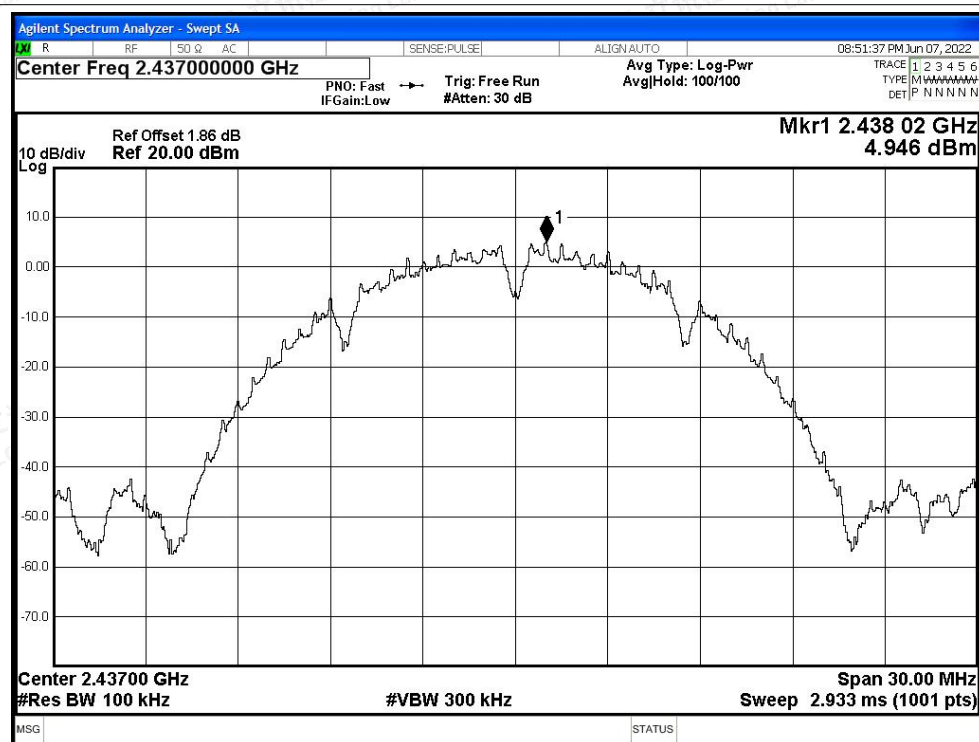
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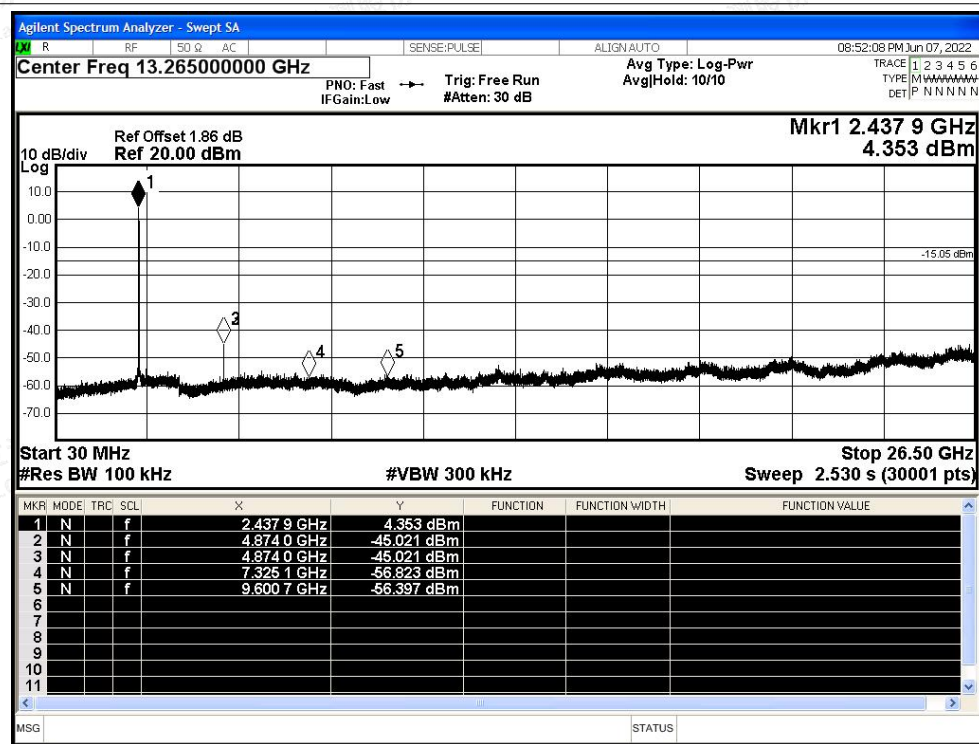
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Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



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