



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: 3D Printer

Test Model: Anycubic Kobra 2 Max

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
	<i>Ling Zhu</i>
Supervised by:	Li Huan
	<i>Li Huan</i>





C.1 -6dB Bandwidth

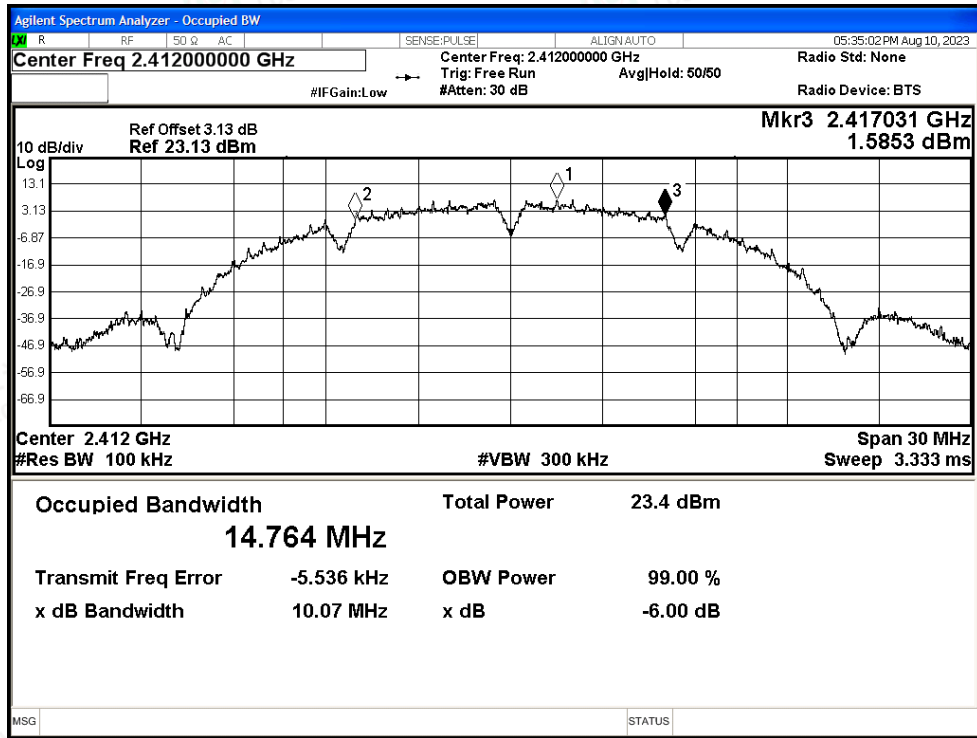
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.074	>=0.5	Pass
NVNT	b	2437	Ant1	8.117	>=0.5	Pass
NVNT	b	2462	Ant1	10.022	>=0.5	Pass
NVNT	g	2412	Ant1	16.304	>=0.5	Pass
NVNT	g	2437	Ant1	16.339	>=0.5	Pass
NVNT	g	2462	Ant1	16.329	>=0.5	Pass
NVNT	n20	2412	Ant1	17.581	>=0.5	Pass
NVNT	n20	2437	Ant1	17.315	>=0.5	Pass
NVNT	n20	2462	Ant1	17.506	>=0.5	Pass
NVNT	n40	2422	Ant1	35.669	>=0.5	Pass
NVNT	n40	2437	Ant1	35.701	>=0.5	Pass
NVNT	n40	2452	Ant1	35.999	>=0.5	Pass



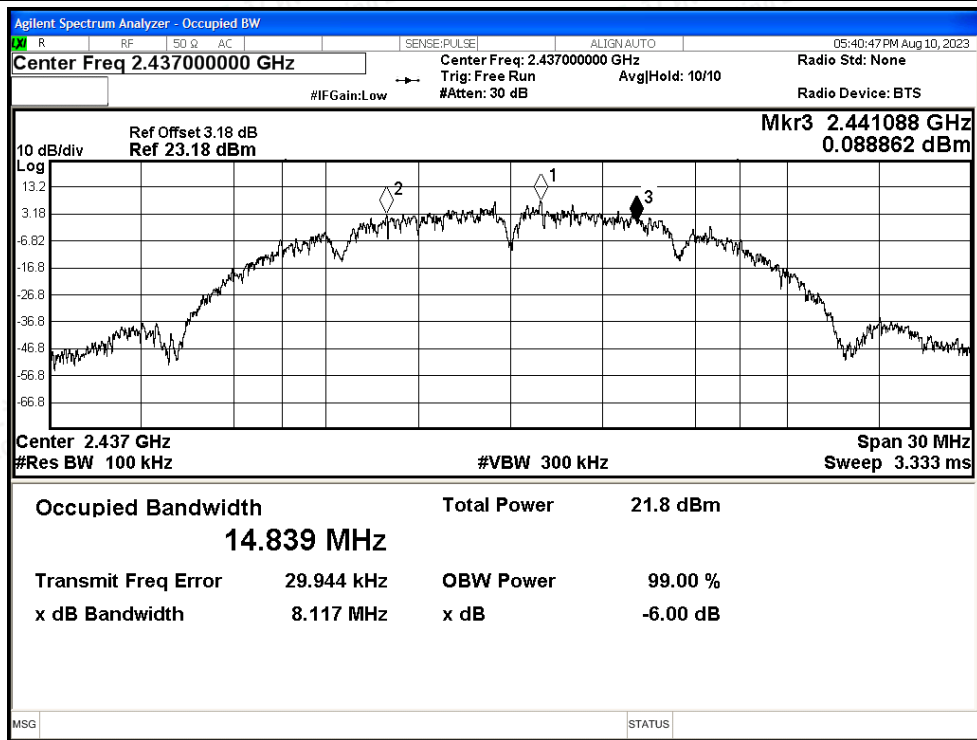


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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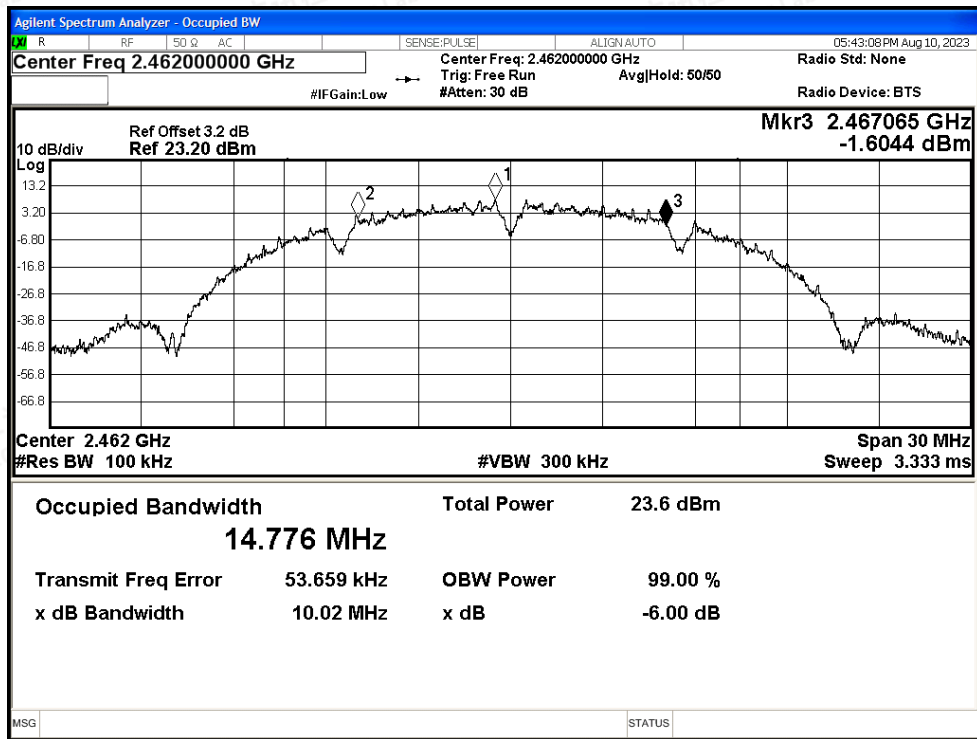
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

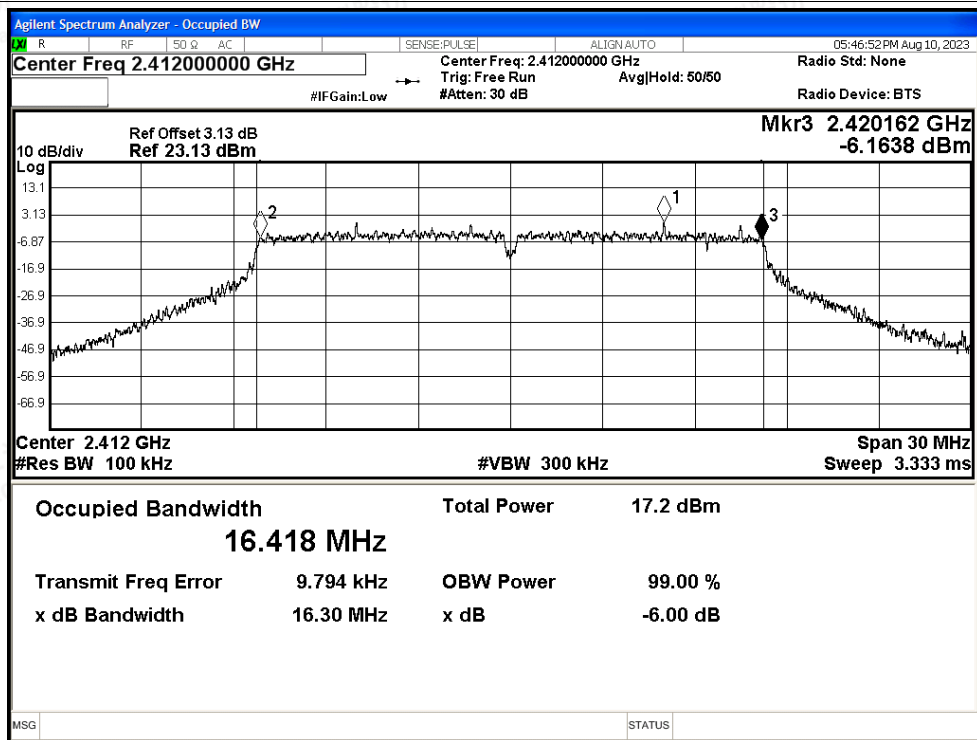
Scan code to check authenticity



-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



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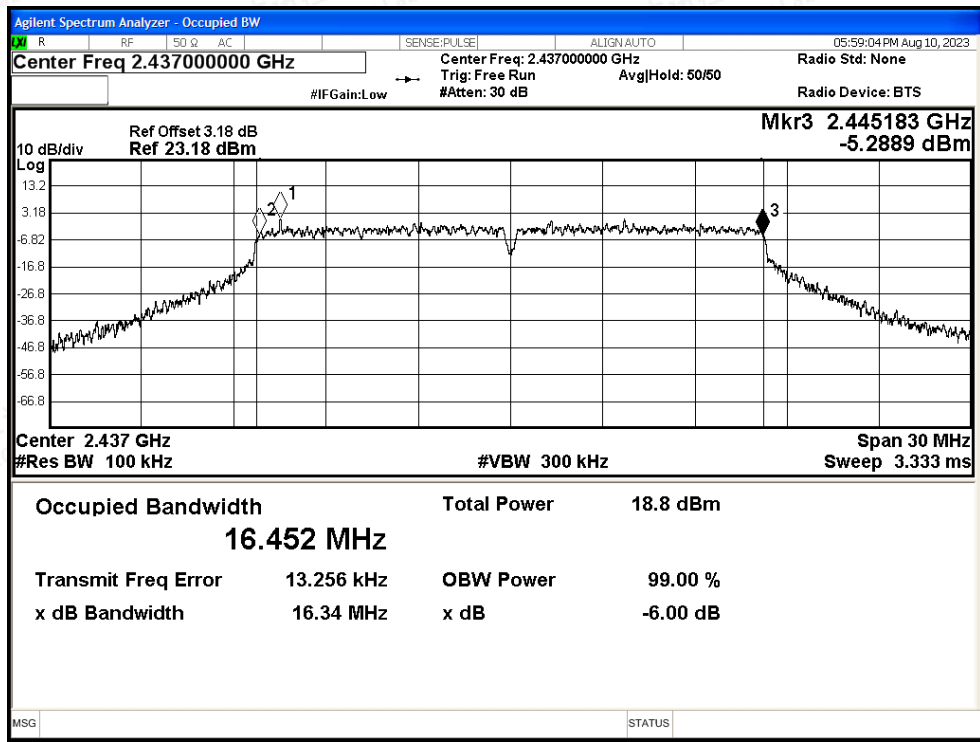
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

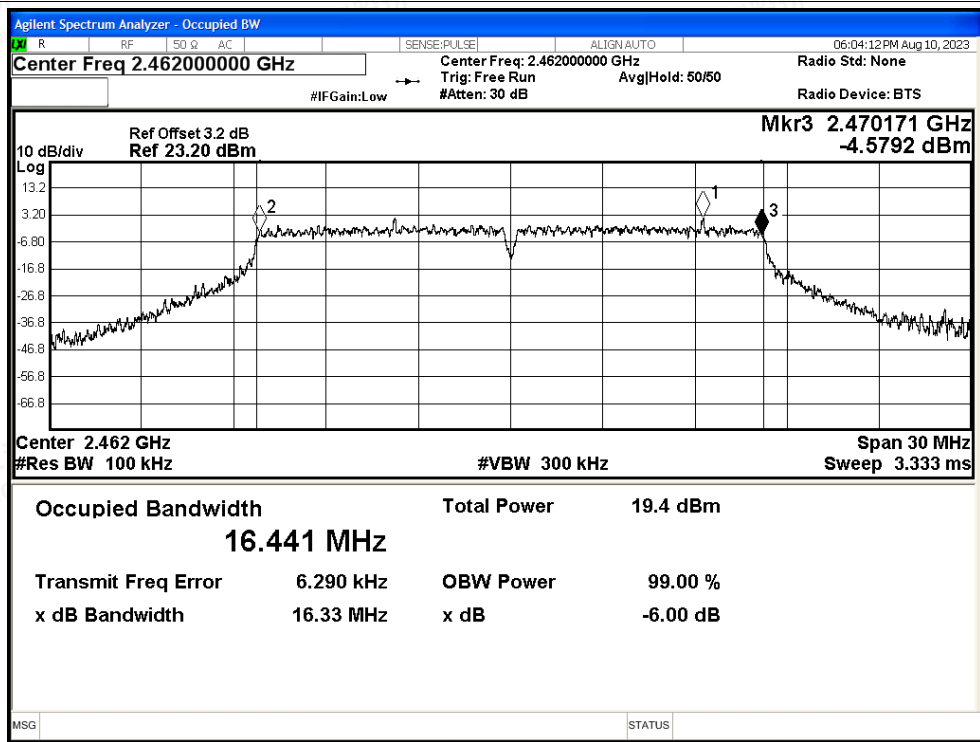
Scan code to check authenticity



-6dB Bandwidth NVNT g 2437MHz Ant1

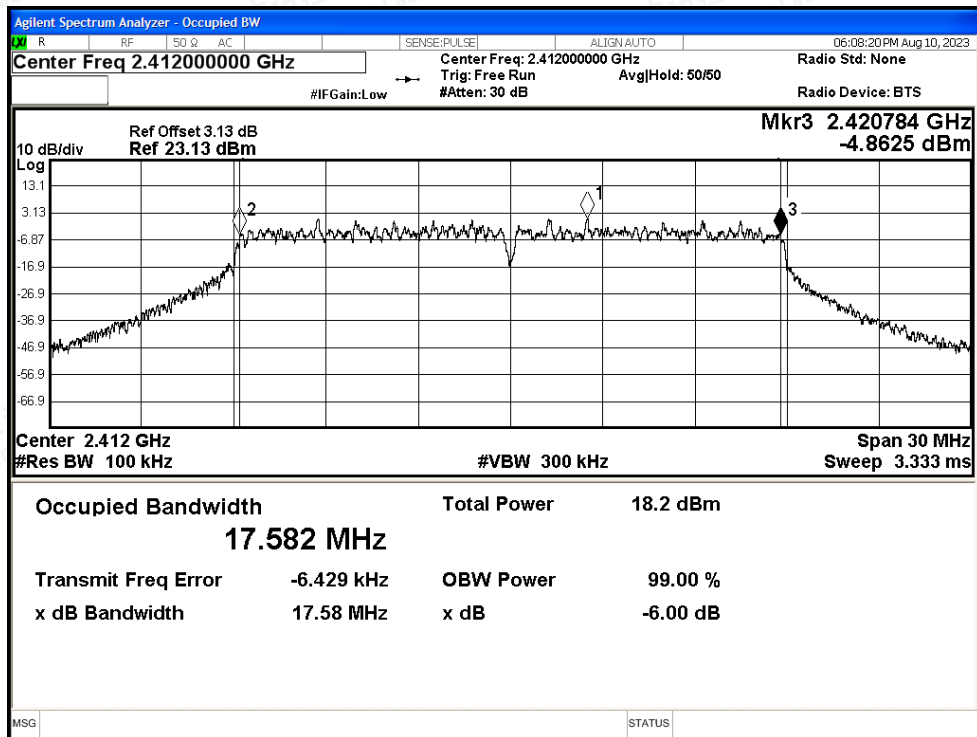


-6dB Bandwidth NVNT g 2462MHz Ant1

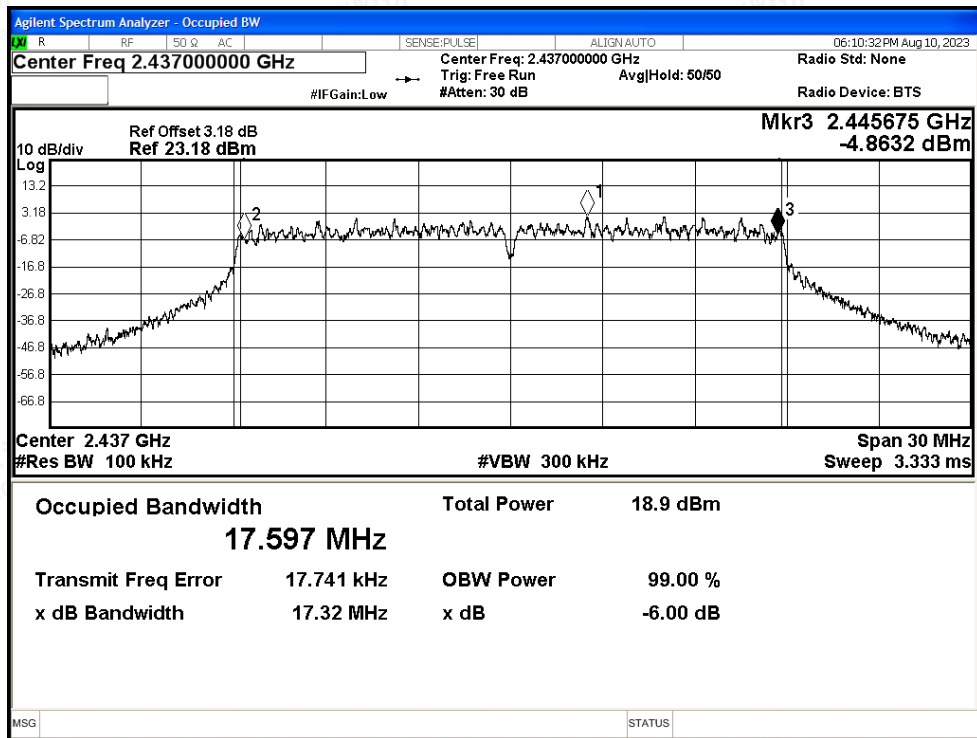




-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

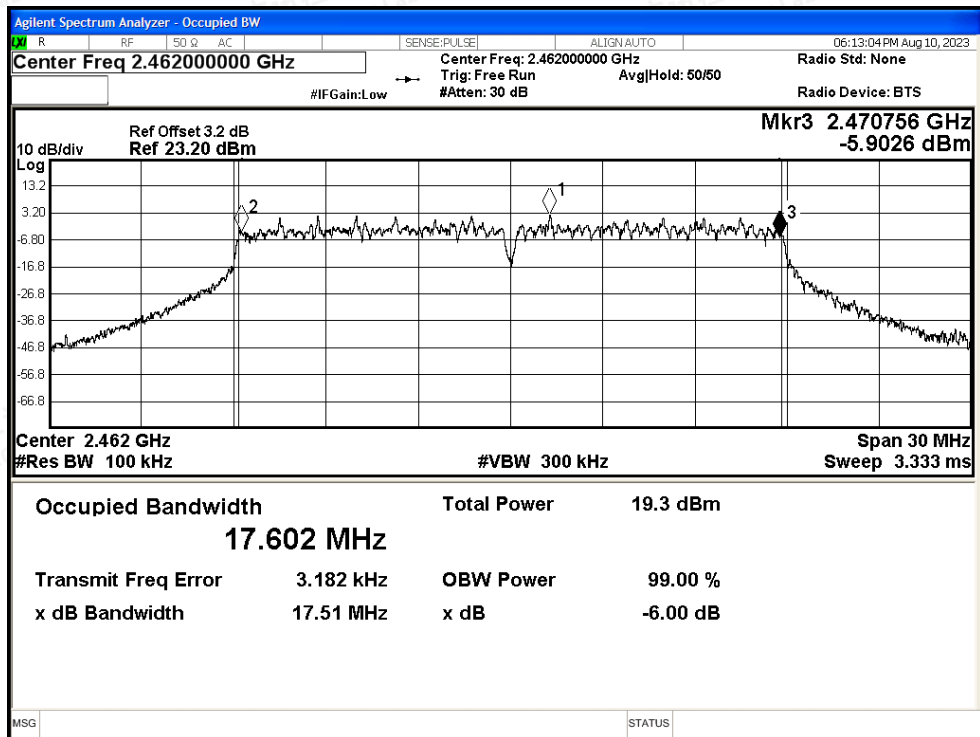
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

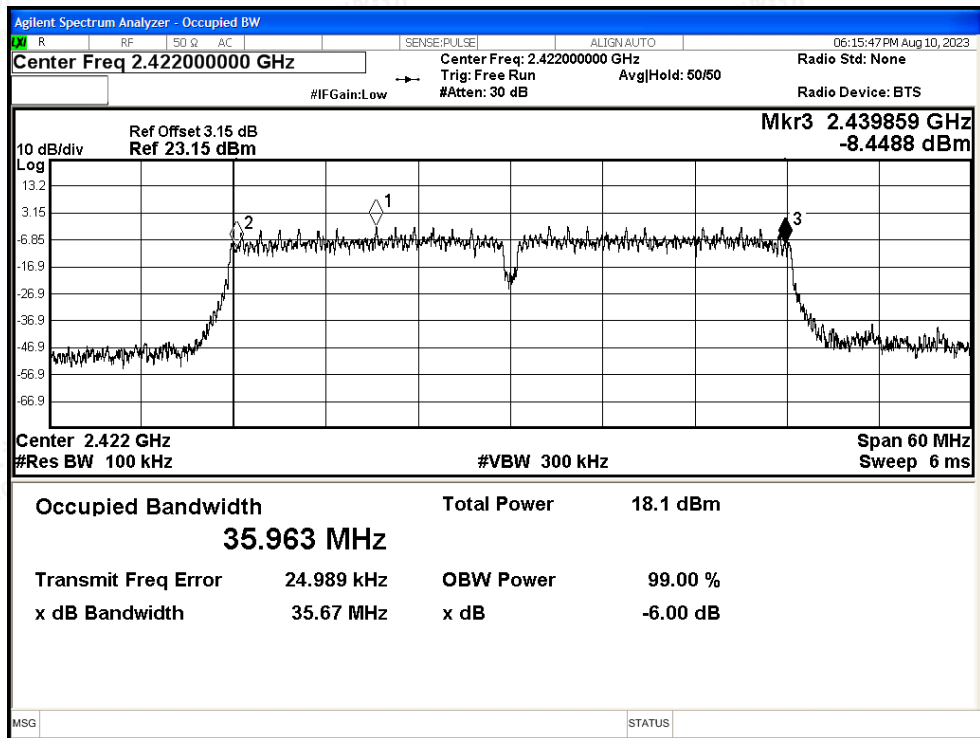
Scan code to check authenticity



-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

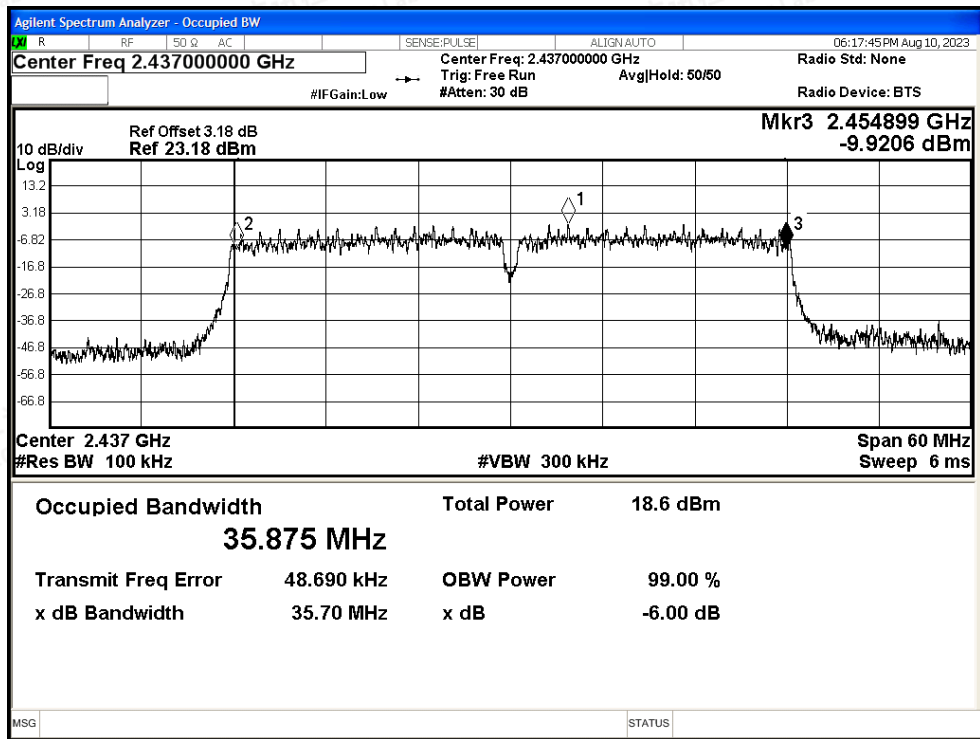
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

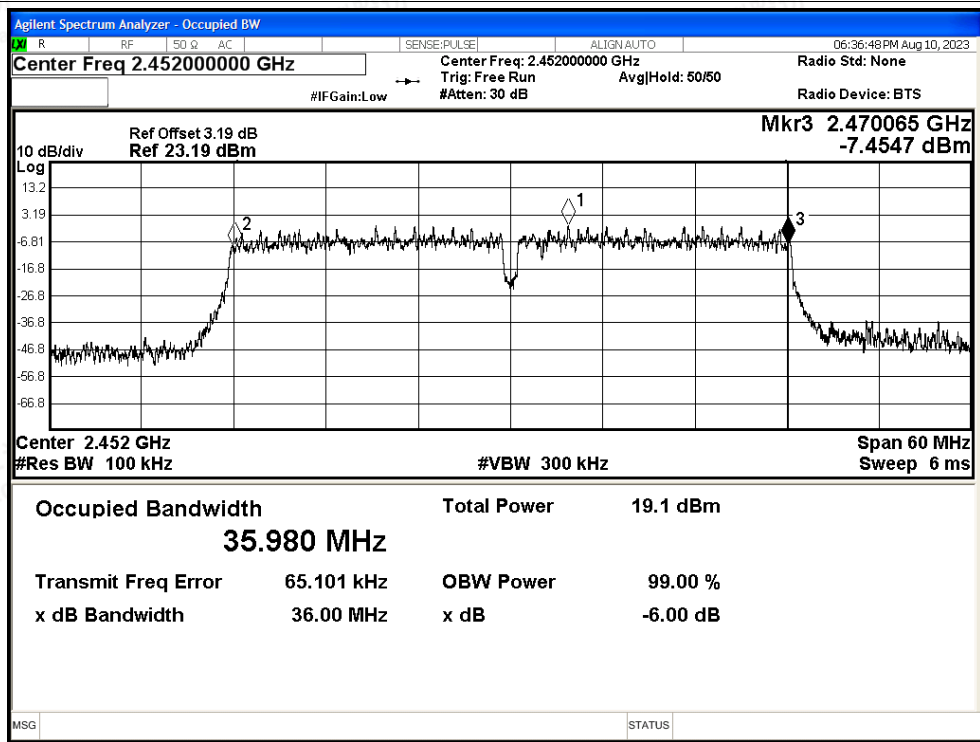
Scan code to check authenticity



-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1





C.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	18.88	30	Pass
NVNT	b	2437	Ant1	18.54	30	Pass
NVNT	b	2462	Ant1	18.76	30	Pass
NVNT	g	2412	Ant1	14.72	30	Pass
NVNT	g	2437	Ant1	16.5	30	Pass
NVNT	g	2462	Ant1	16.9	30	Pass
NVNT	n20	2412	Ant1	15.21	30	Pass
NVNT	n20	2437	Ant1	15.86	30	Pass
NVNT	n20	2462	Ant1	18.27	30	Pass
NVNT	n40	2422	Ant1	14.98	30	Pass
NVNT	n40	2437	Ant1	15.29	30	Pass
NVNT	n40	2452	Ant1	15.88	30	Pass





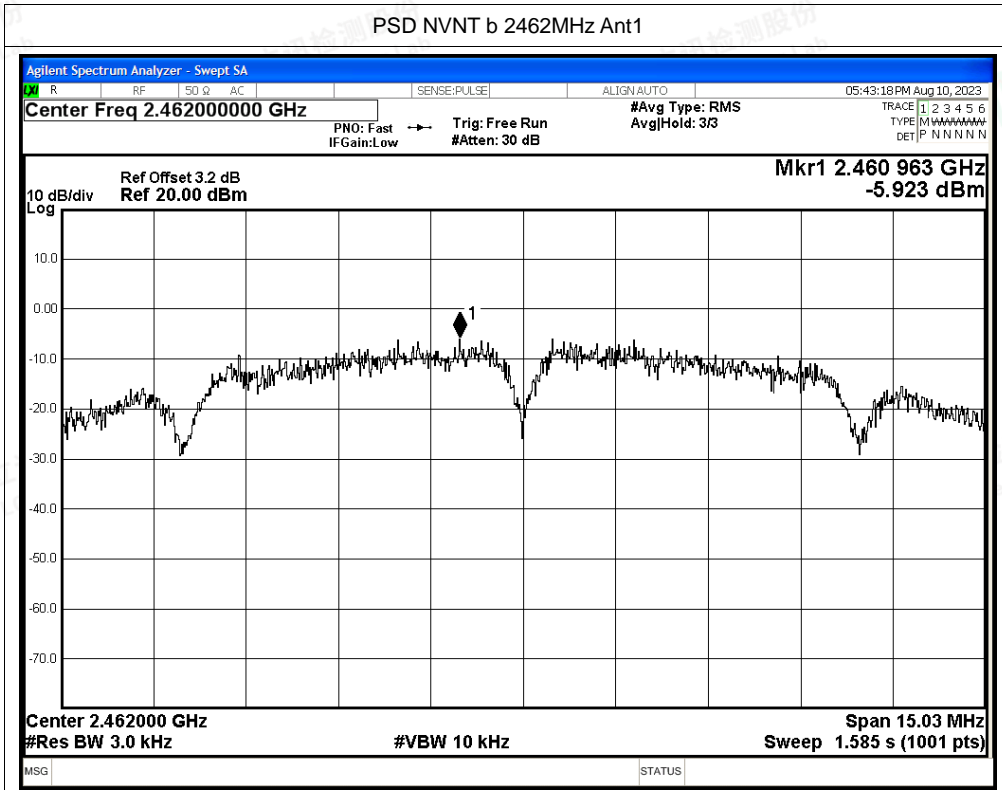
C.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-6.32	8	Pass
NVNT	b	2437	Ant1	-6.56	8	Pass
NVNT	b	2462	Ant1	-5.92	8	Pass
NVNT	g	2412	Ant1	-12.93	8	Pass
NVNT	g	2437	Ant1	-12.06	8	Pass
NVNT	g	2462	Ant1	-10.83	8	Pass
NVNT	n20	2412	Ant1	-14.46	8	Pass
NVNT	n20	2437	Ant1	-13.55	8	Pass
NVNT	n20	2462	Ant1	-12.54	8	Pass
NVNT	n40	2422	Ant1	-15.56	8	Pass
NVNT	n40	2437	Ant1	-15.63	8	Pass
NVNT	n40	2452	Ant1	-15.55	8	Pass

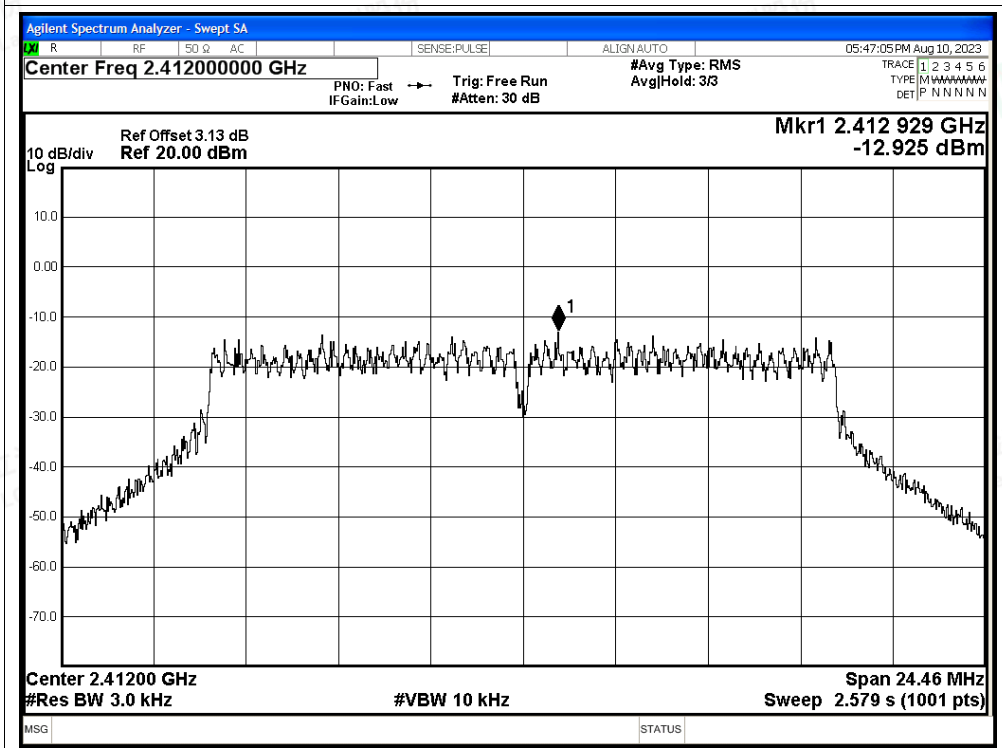




PSD NVNT b 2462MHz Ant1

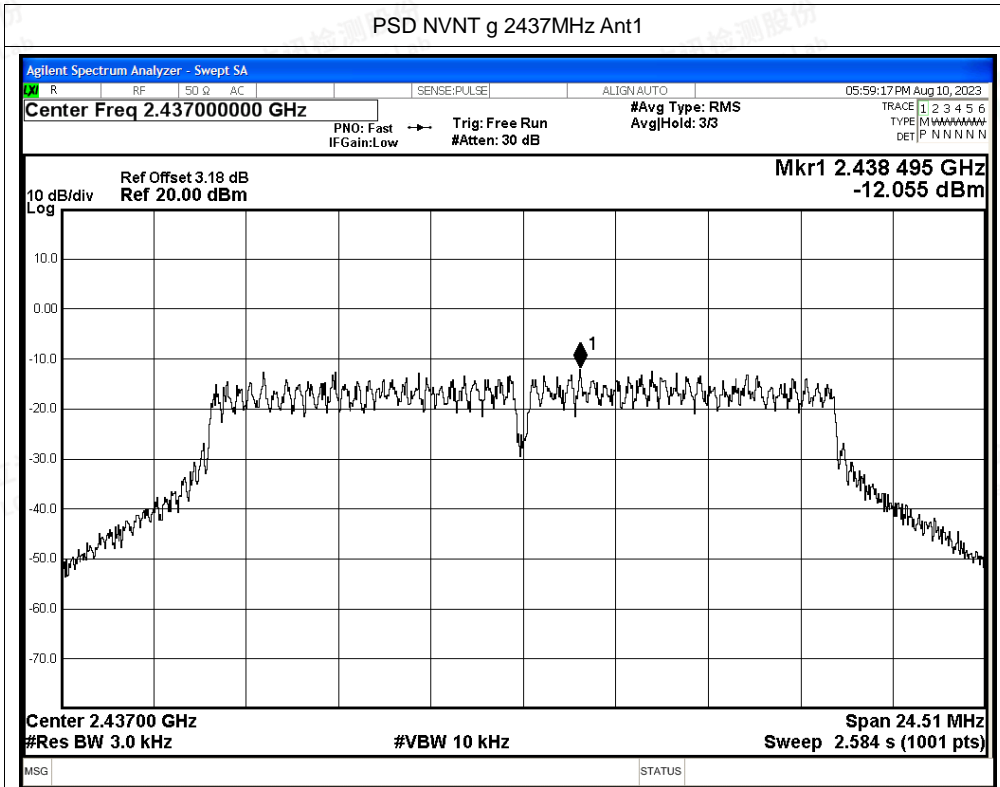


PSD NVNT g 2412MHz Ant1

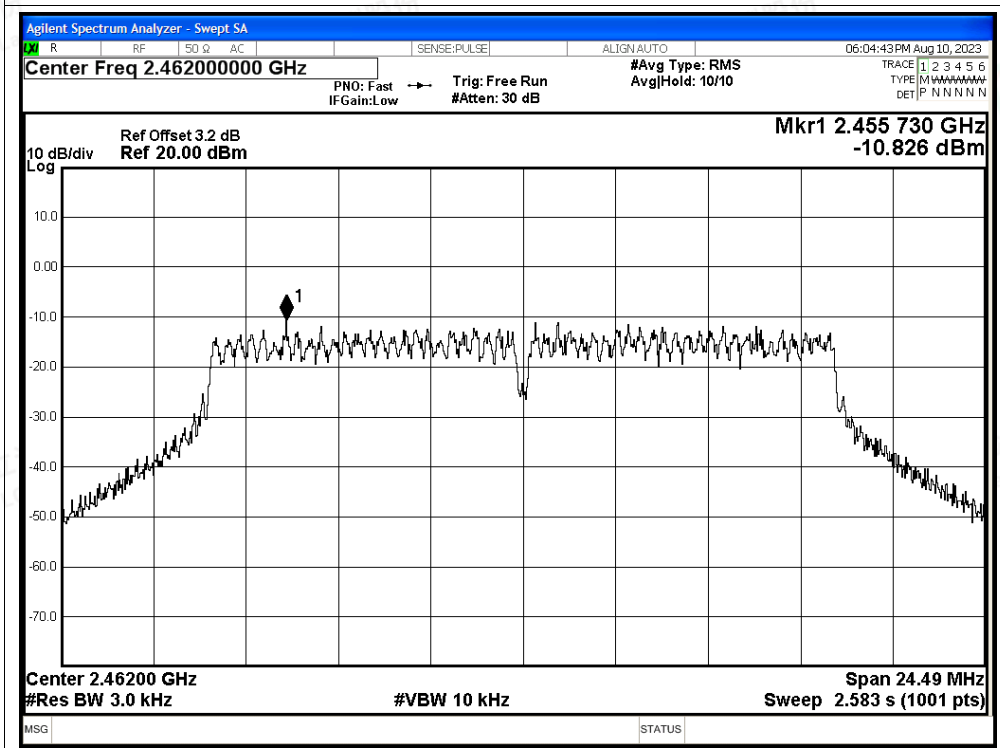


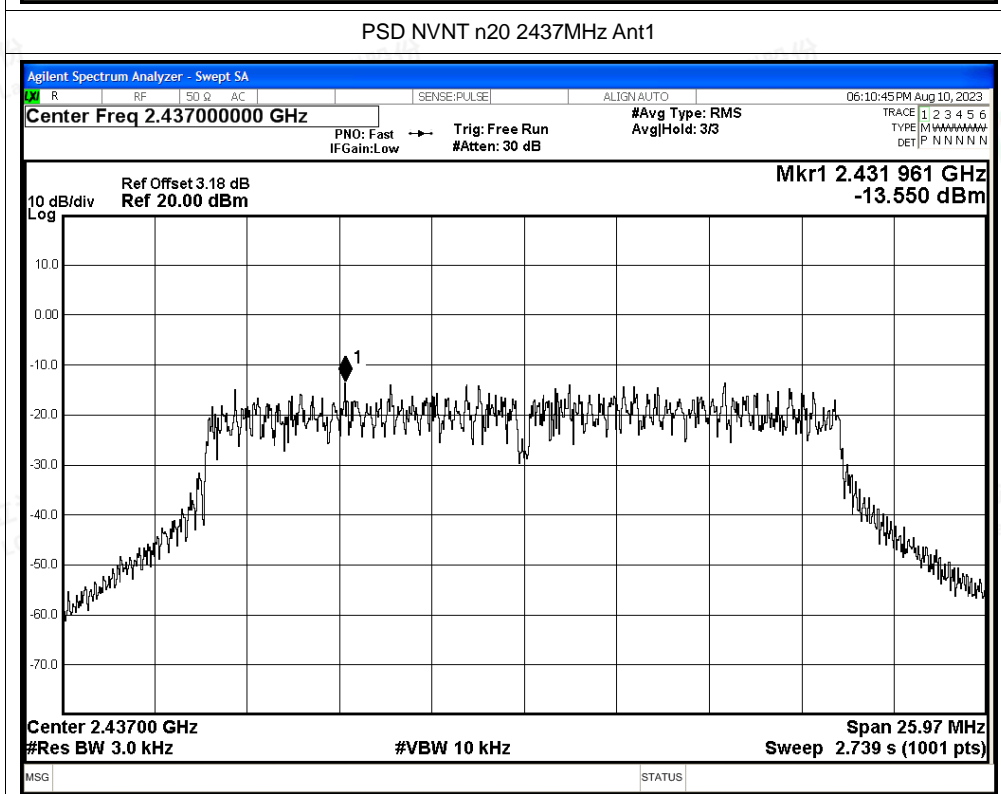
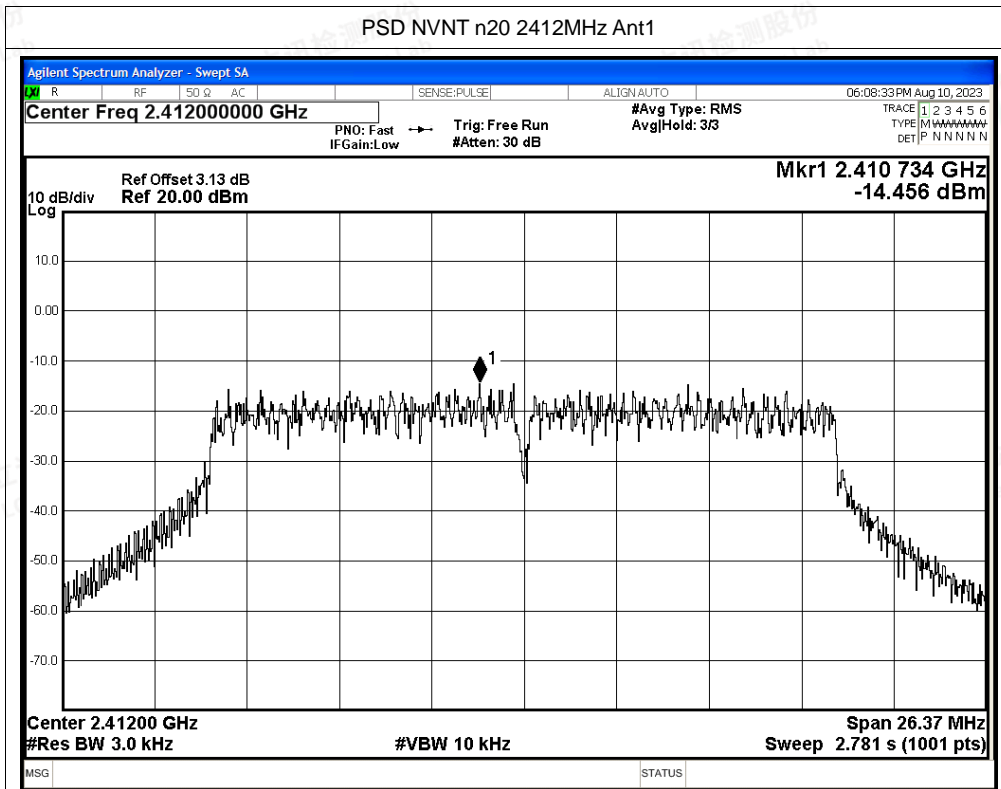


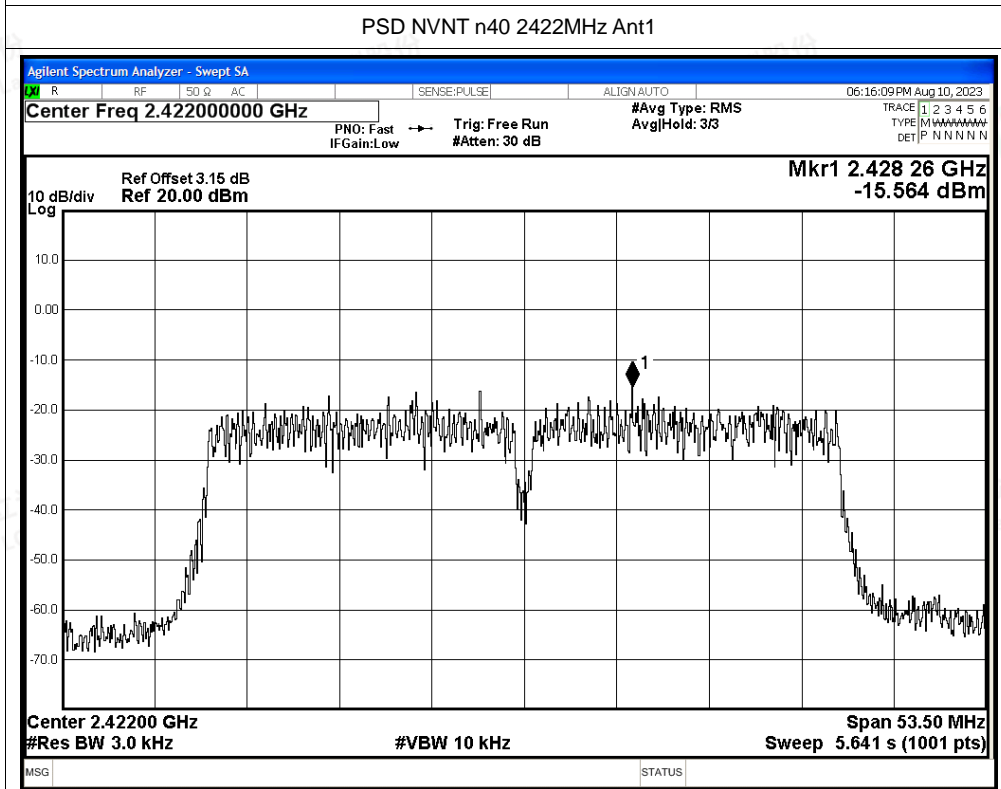
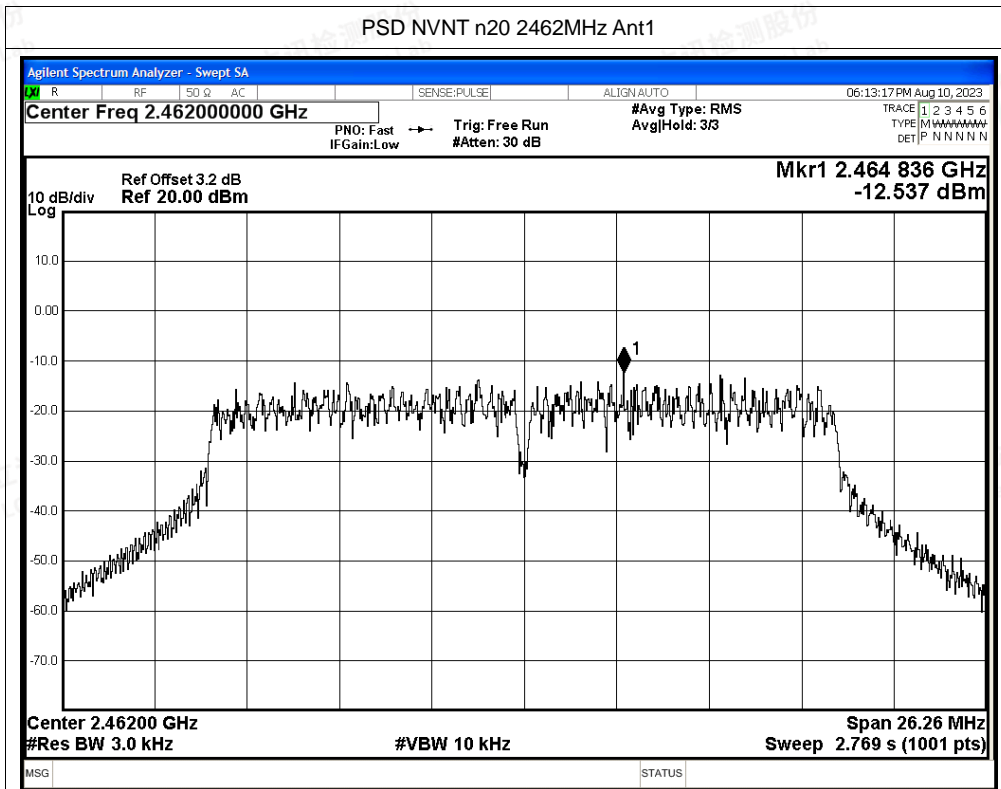
PSD NVNT g 2437MHz Ant1

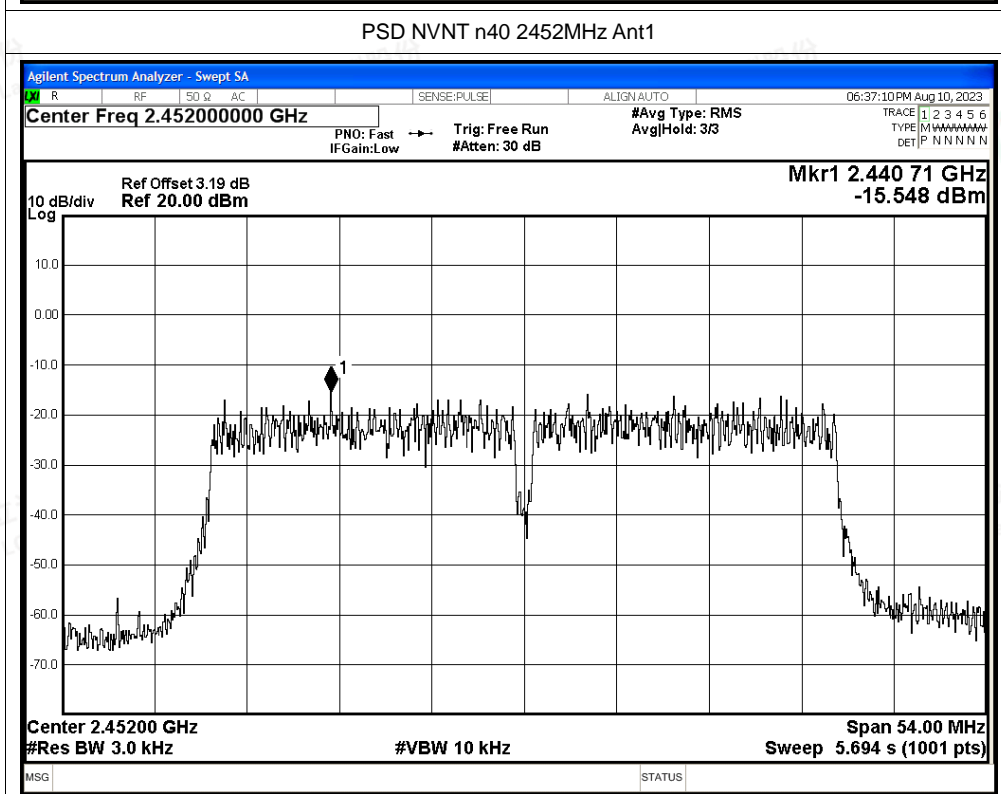
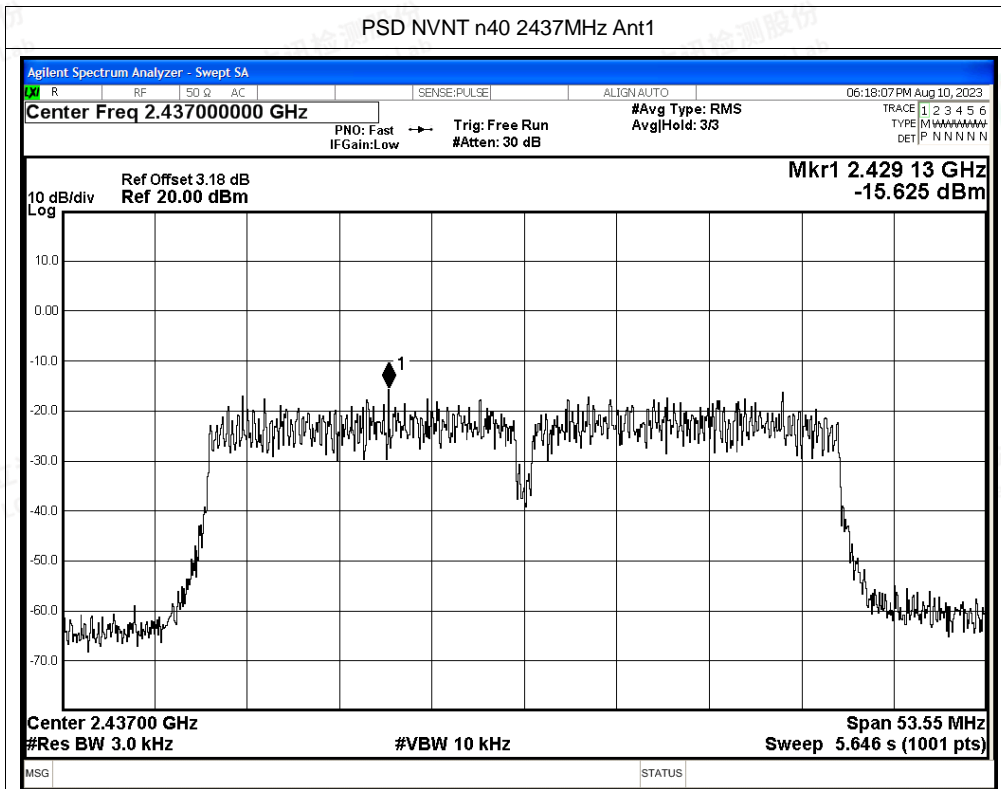


PSD NVNT g 2462MHz Ant1











C.4 Band Edge

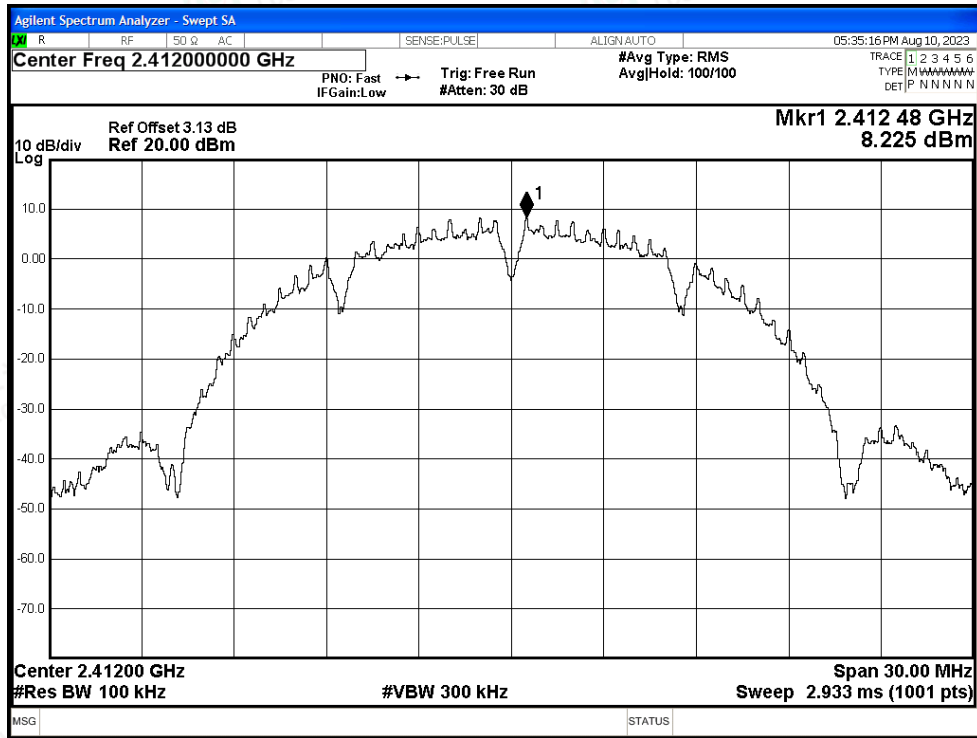
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-44.24	-20	Pass
NVNT	b	2462	Ant1	-60.14	-20	Pass
NVNT	g	2412	Ant1	-38.51	-20	Pass
NVNT	g	2462	Ant1	-45.57	-20	Pass
NVNT	n20	2412	Ant1	-38.01	-20	Pass
NVNT	n20	2462	Ant1	-48.93	-20	Pass
NVNT	n40	2422	Ant1	-43.61	-20	Pass
NVNT	n40	2452	Ant1	-38.89	-20	Pass



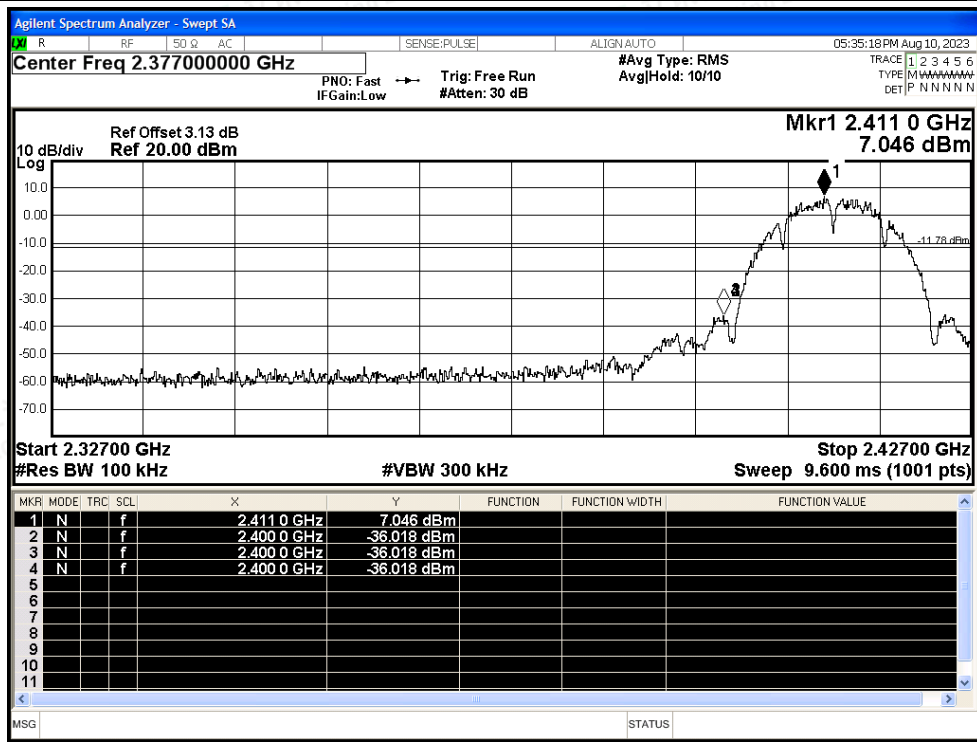


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

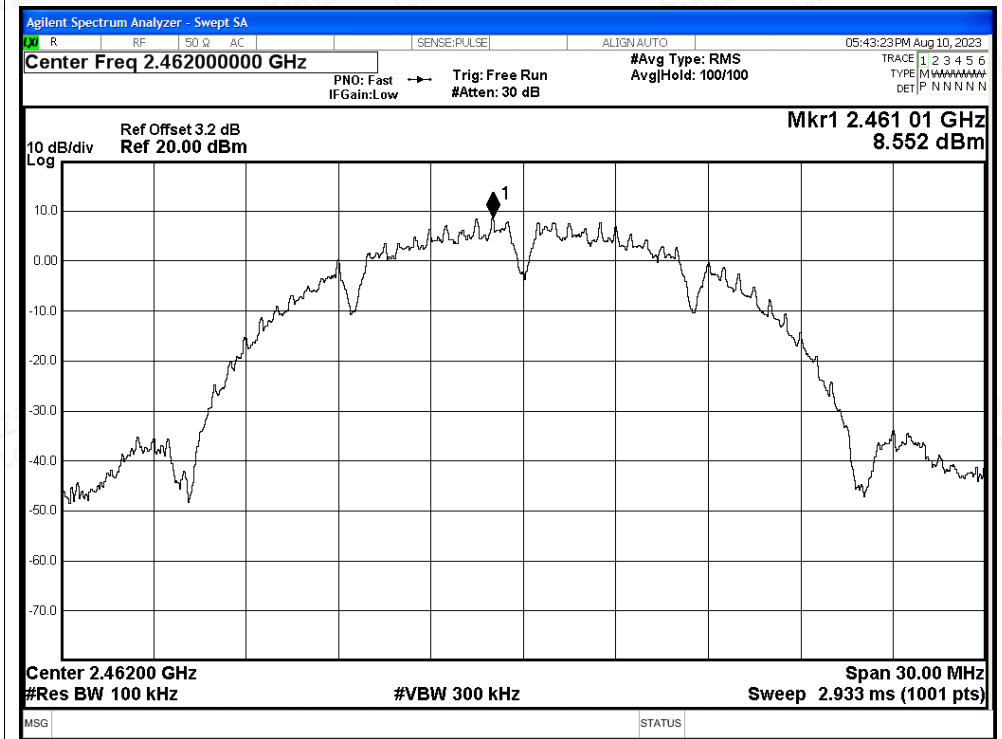
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

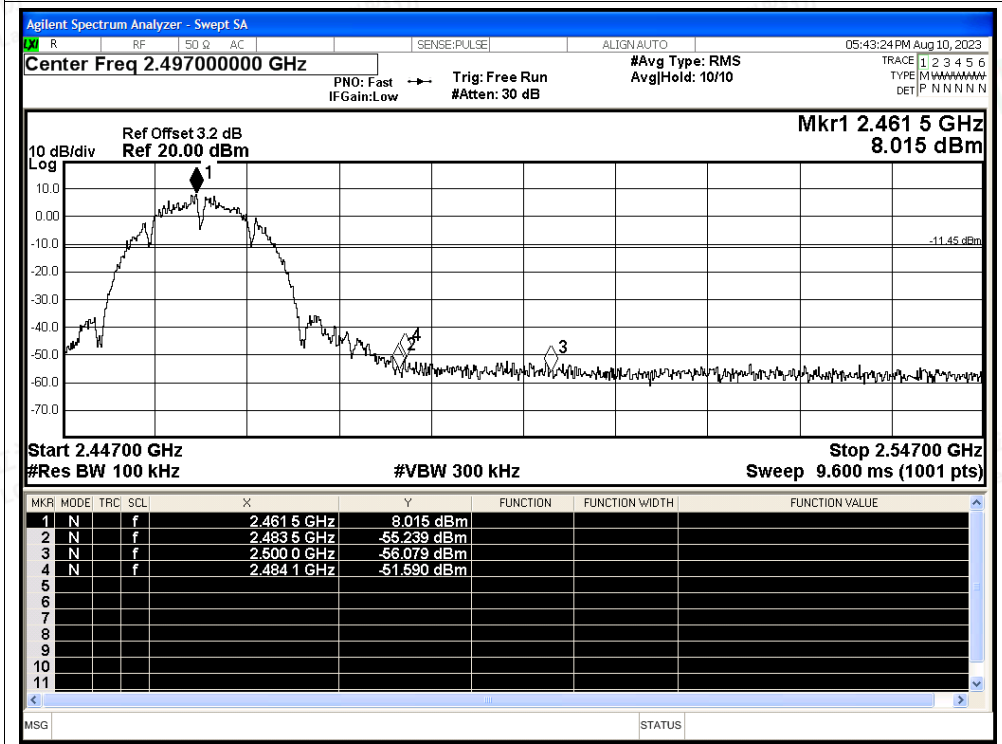
Scan code to check authenticity



Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

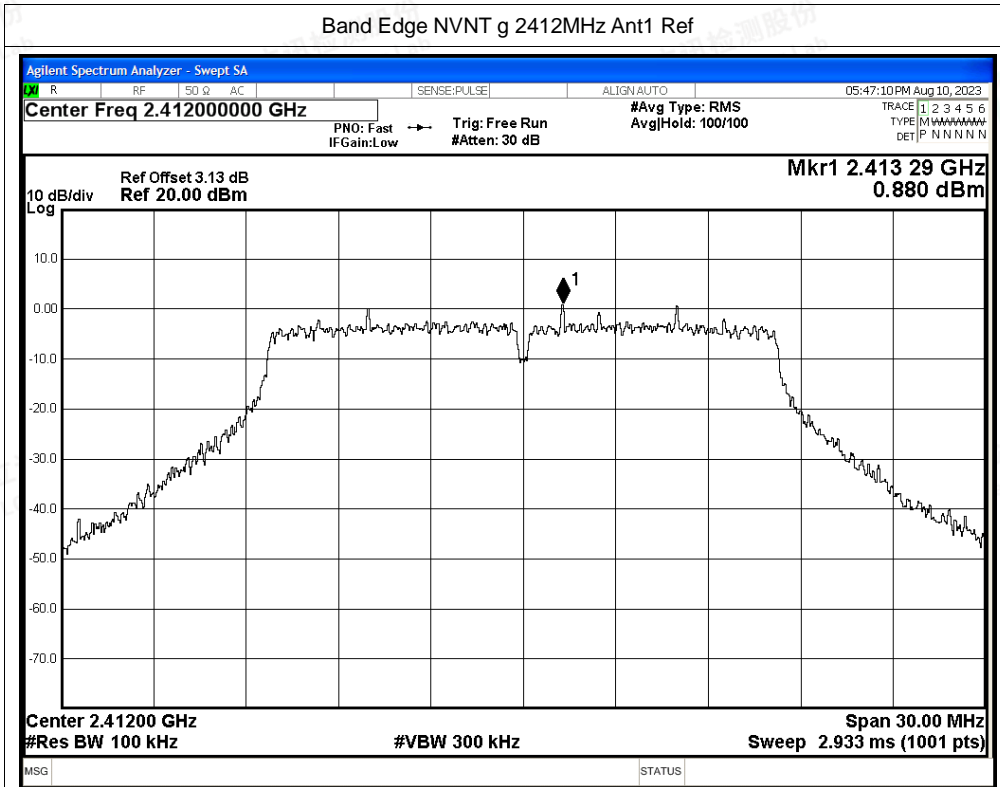
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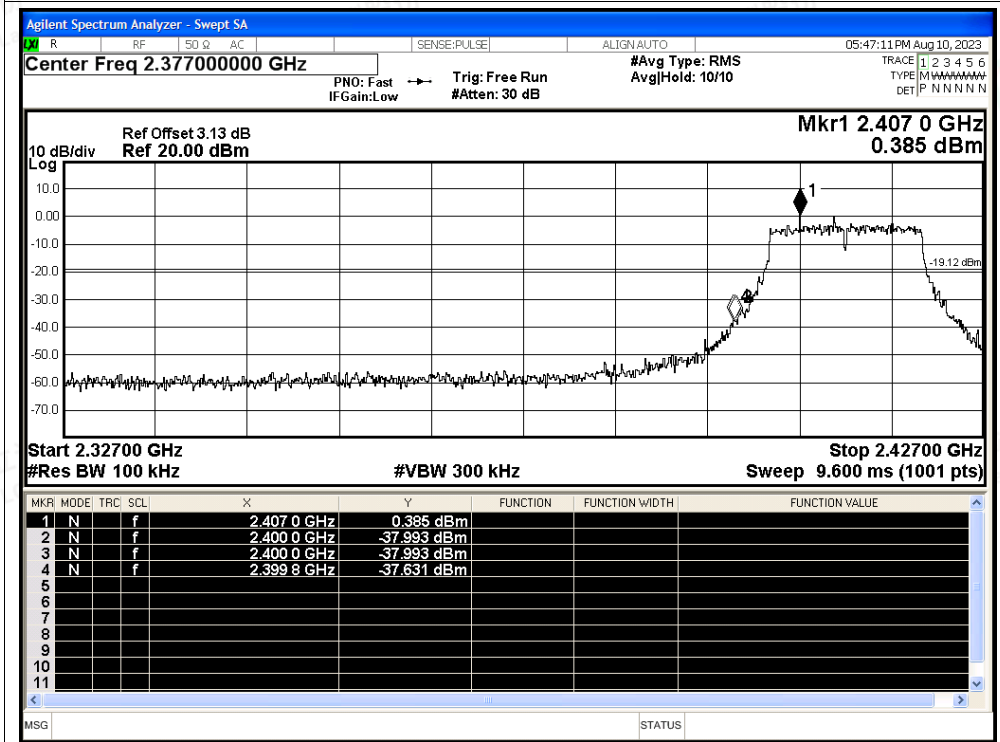
Scan code to check authenticity



Band Edge NVNT g 2412MHz Ant1 Ref

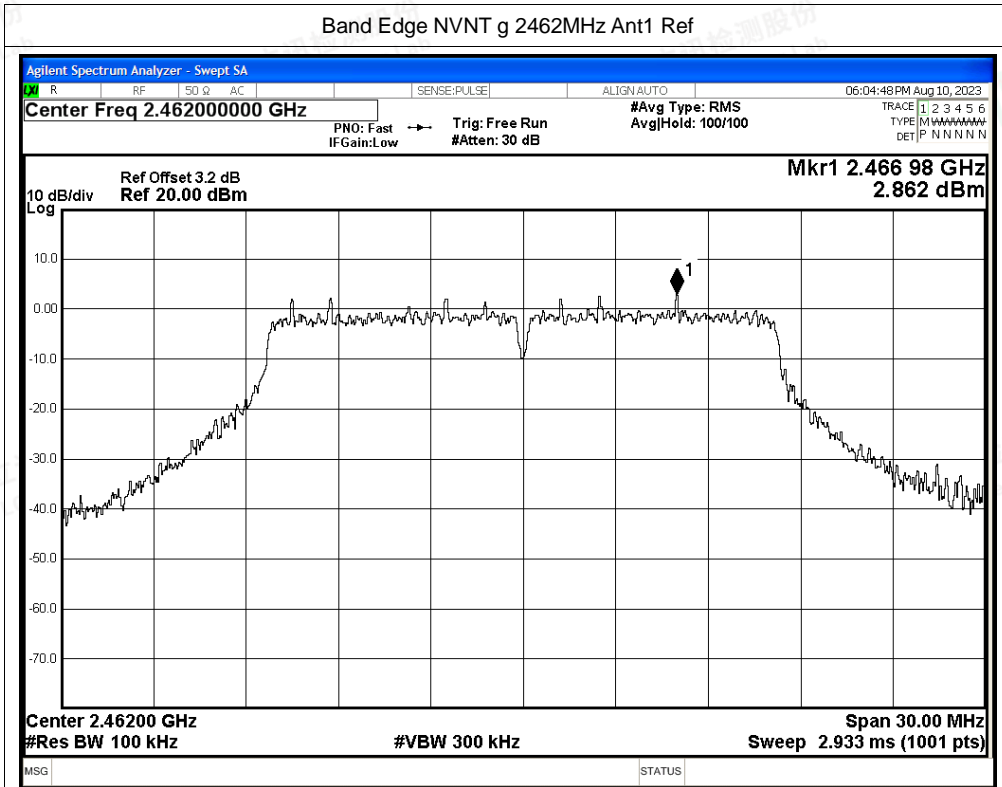


Band Edge NVNT g 2412MHz Ant1 Emission

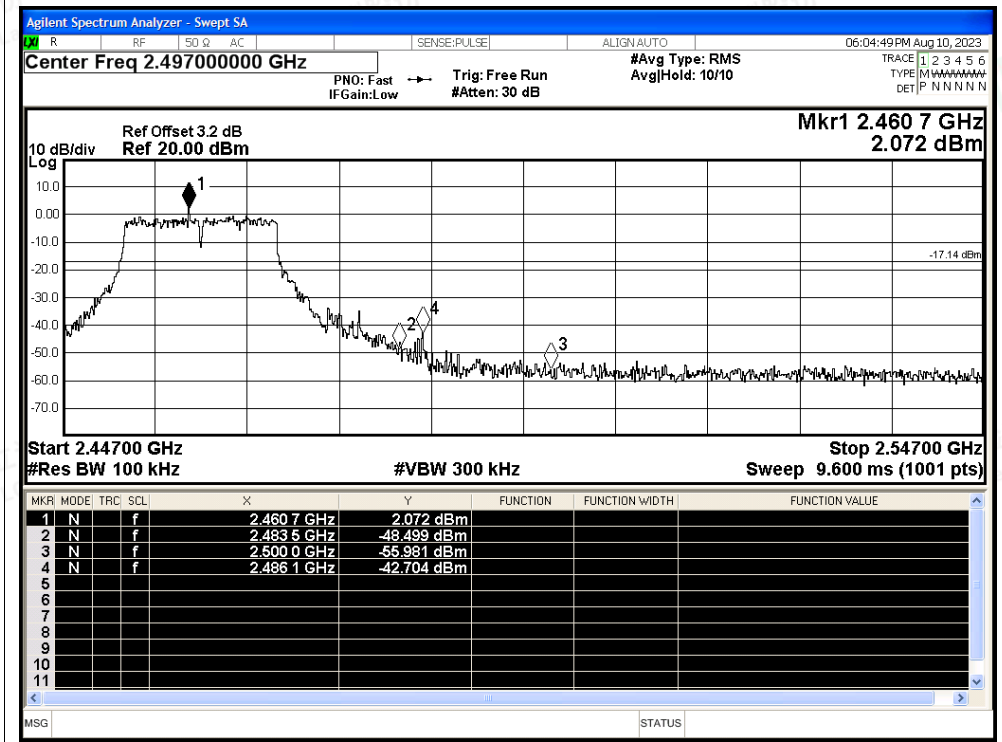




Band Edge NVNT g 2462MHz Ant1 Ref

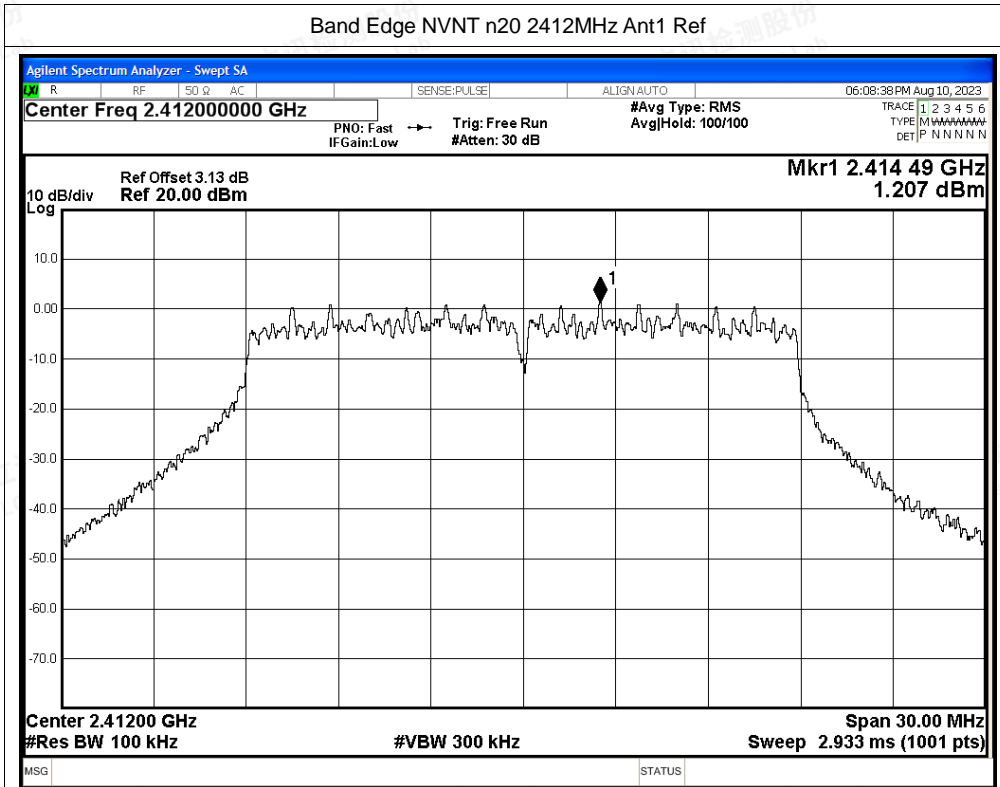


Band Edge NVNT g 2462MHz Ant1 Emission

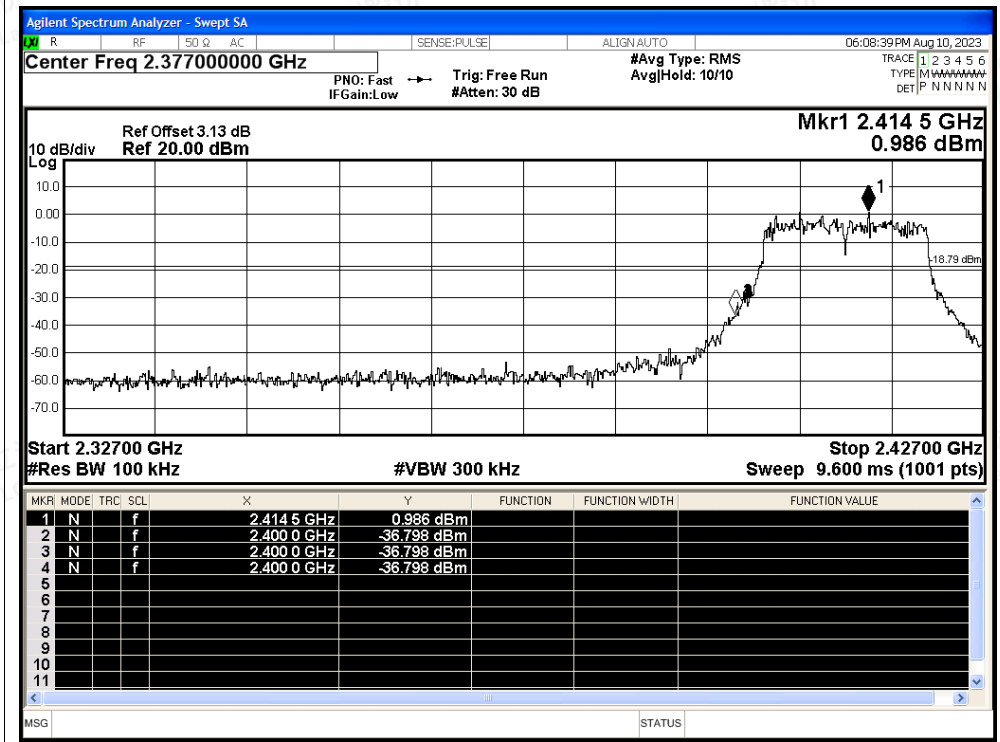




Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission

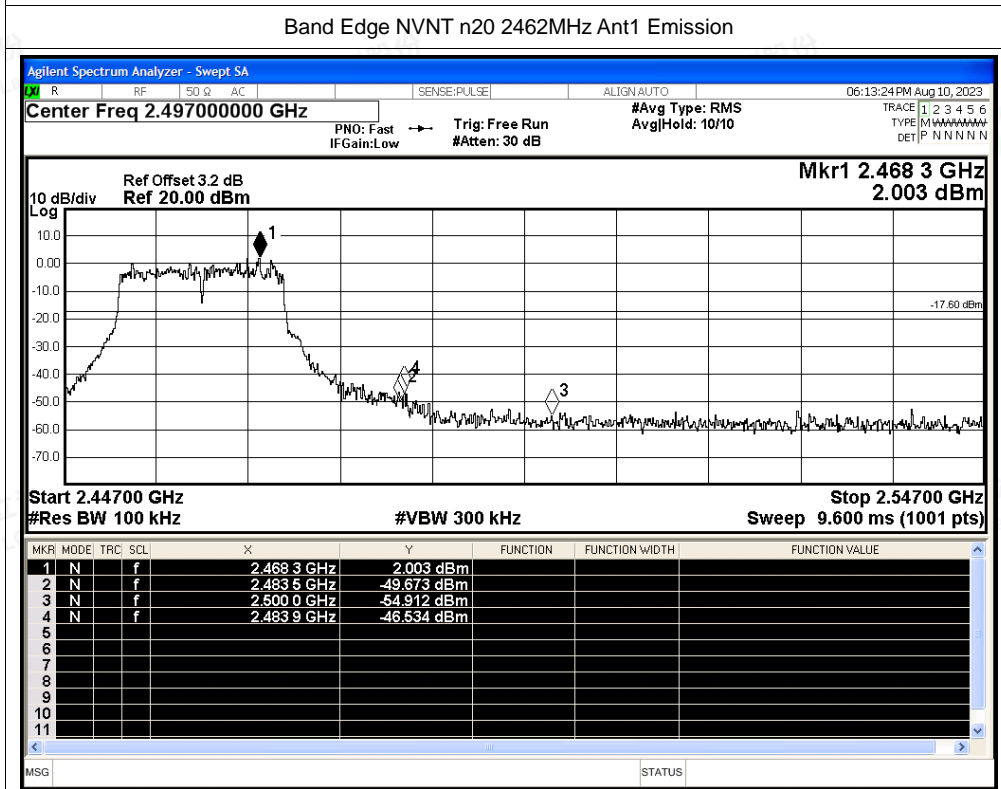
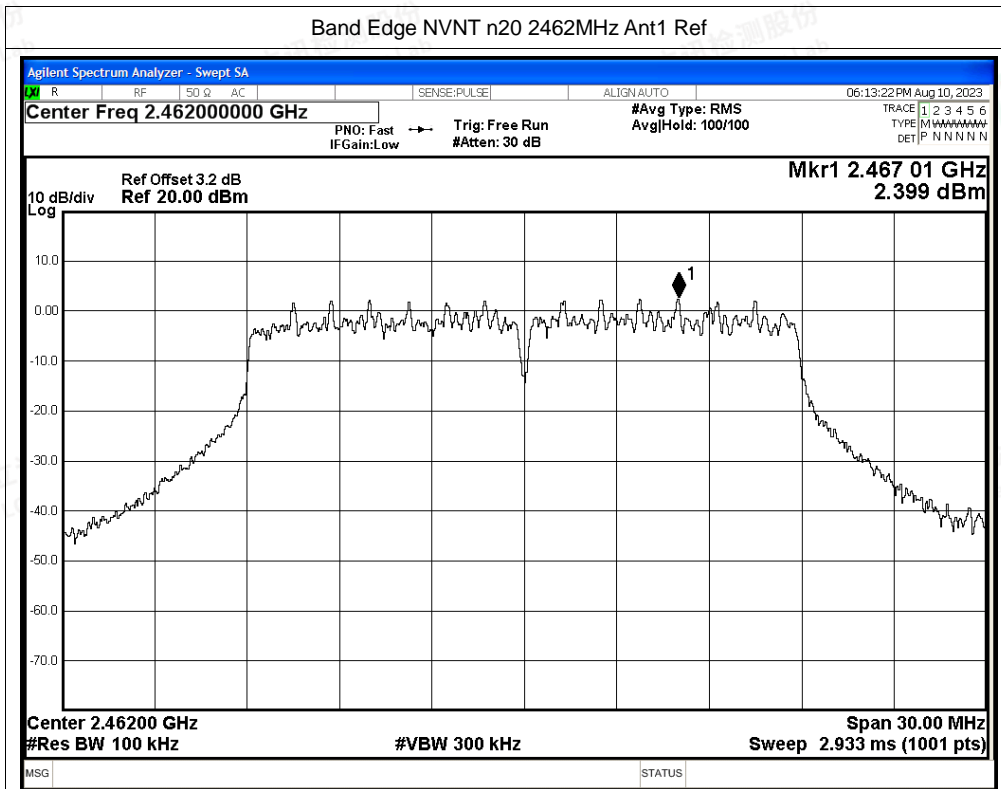


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Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

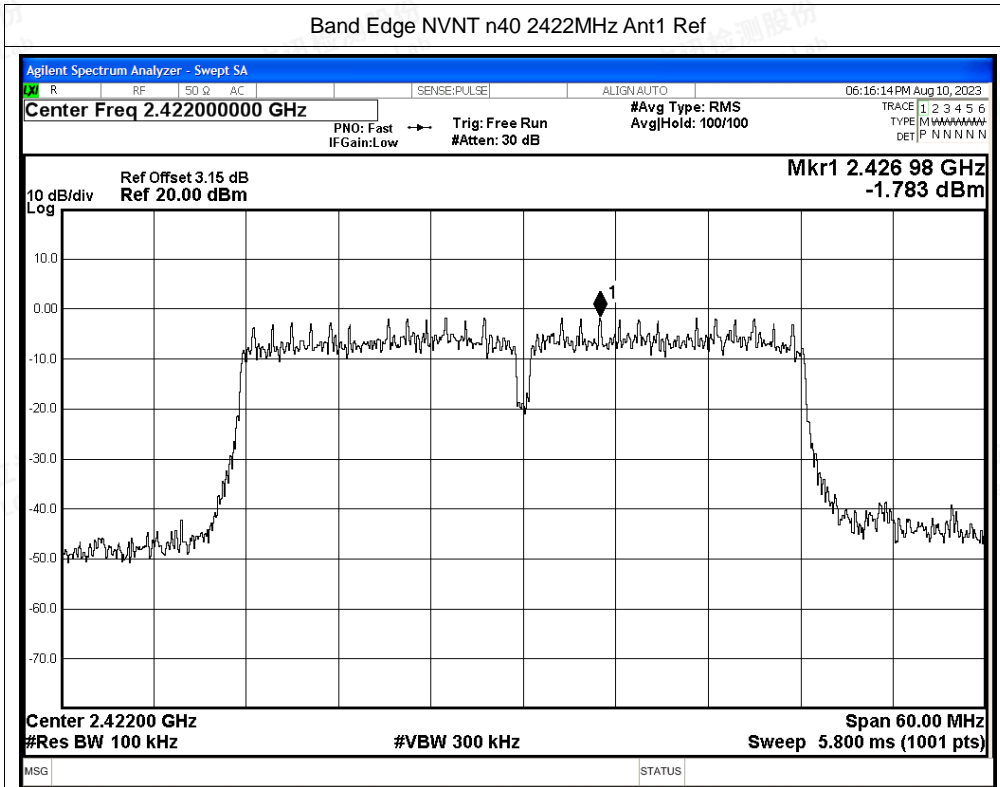
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

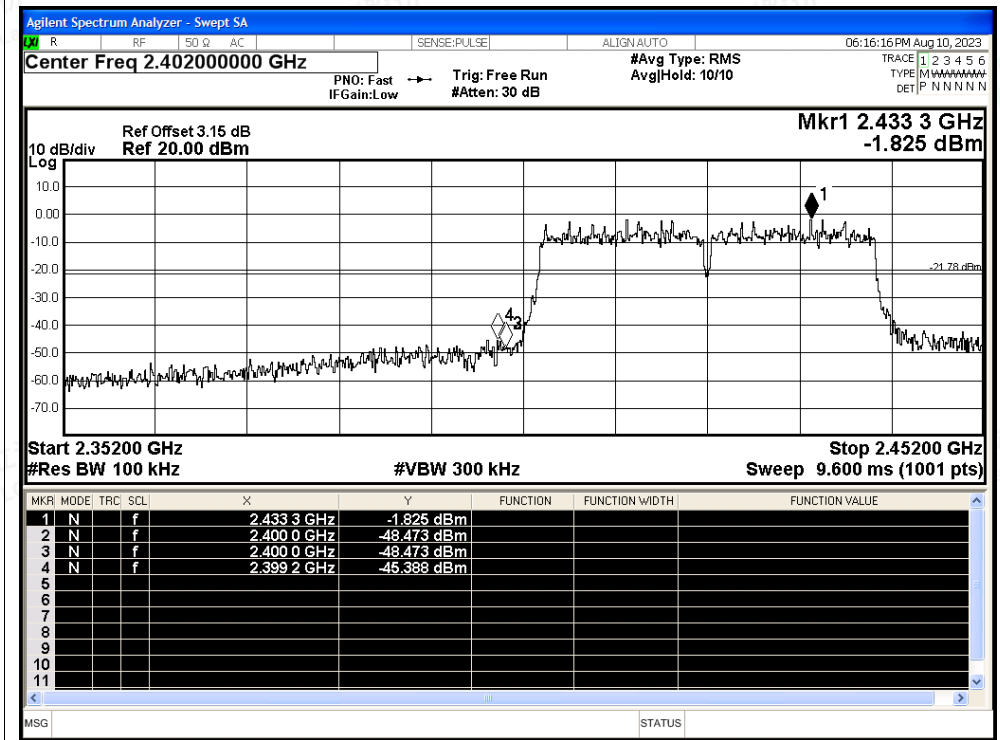




Band Edge NVNT n40 2422MHz Ant1 Ref

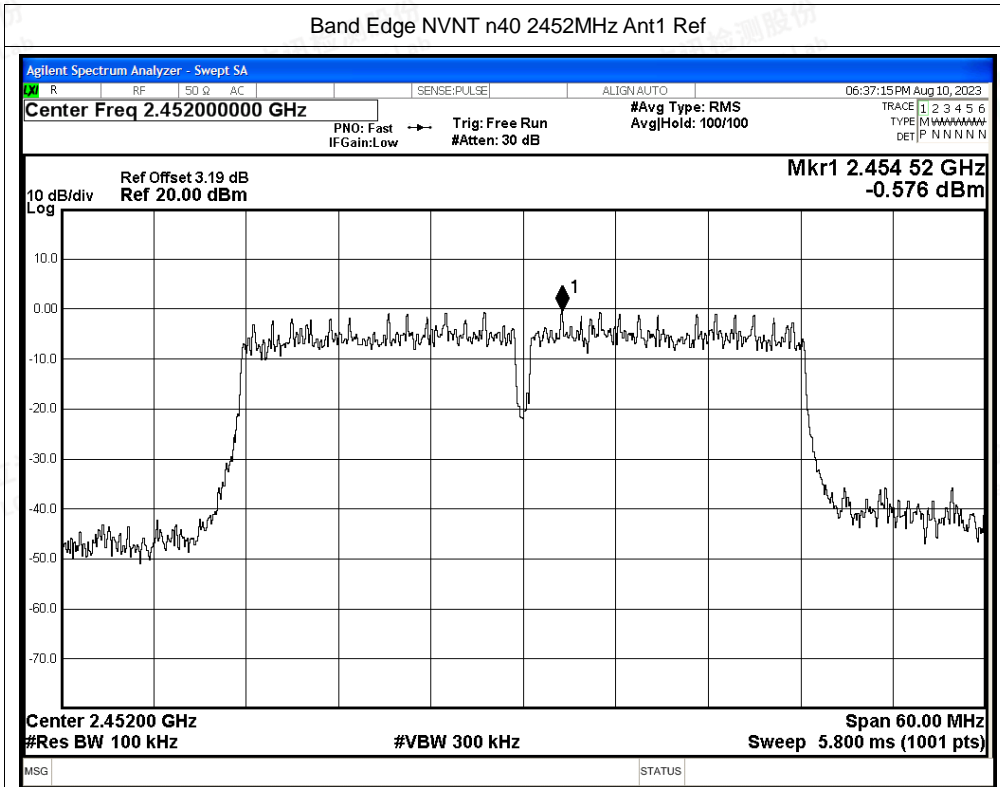


Band Edge NVNT n40 2422MHz Ant1 Emission

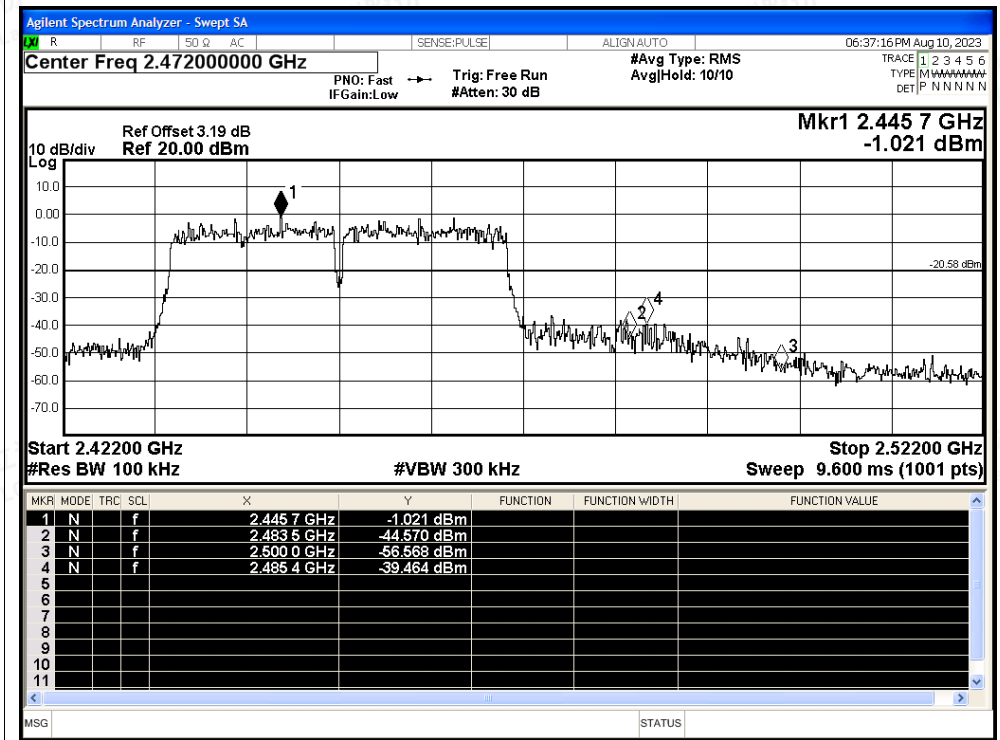




Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission



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C.5 Conducted RF Spurious Emission

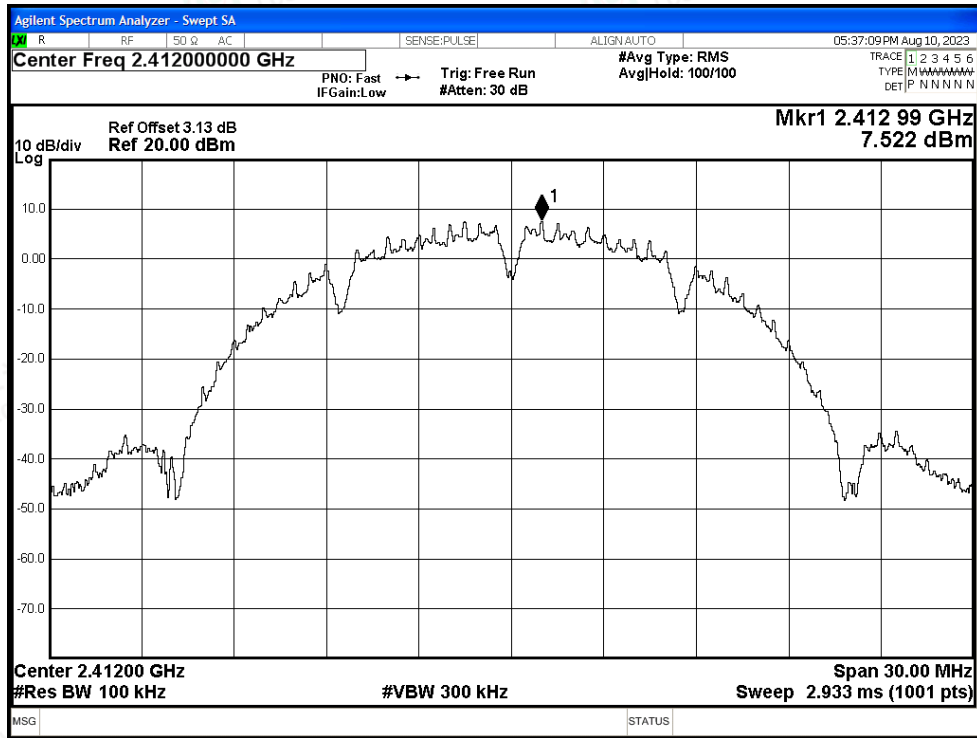
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-46.93	-20	Pass
NVNT	b	2437	Ant1	-47.56	-20	Pass
NVNT	b	2462	Ant1	-48.97	-20	Pass
NVNT	g	2412	Ant1	-45.09	-20	Pass
NVNT	g	2437	Ant1	-45.83	-20	Pass
NVNT	g	2462	Ant1	-47.67	-20	Pass
NVNT	n20	2412	Ant1	-45.51	-20	Pass
NVNT	n20	2437	Ant1	-45.43	-20	Pass
NVNT	n20	2462	Ant1	-47.4	-20	Pass
NVNT	n40	2422	Ant1	-42.8	-20	Pass
NVNT	n40	2437	Ant1	-43.51	-20	Pass
NVNT	n40	2452	Ant1	-43.81	-20	Pass



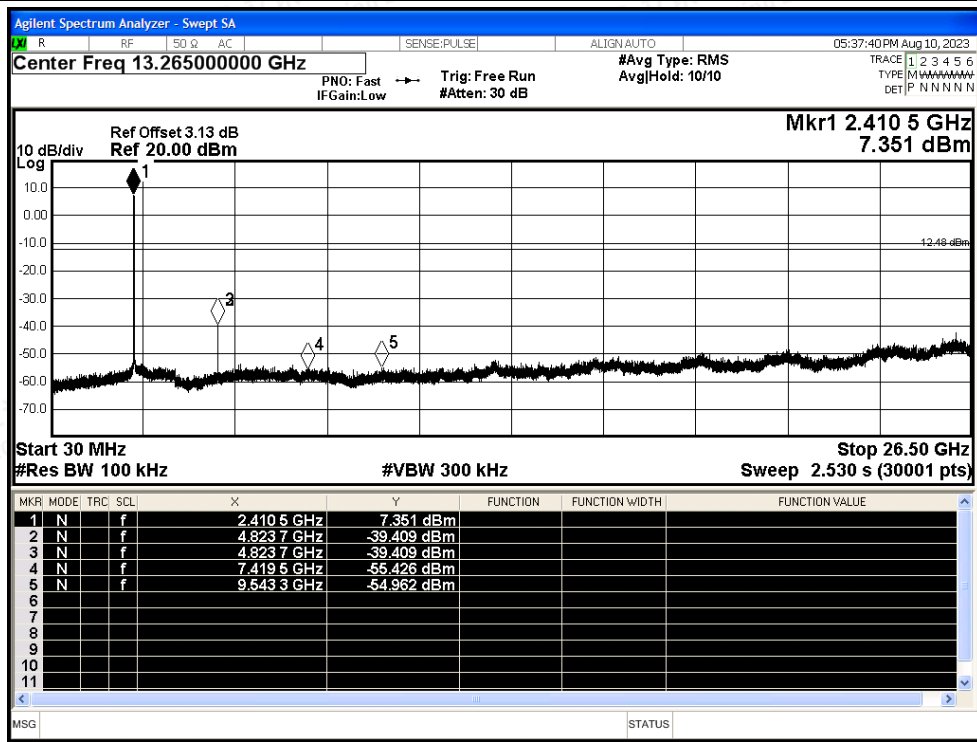


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

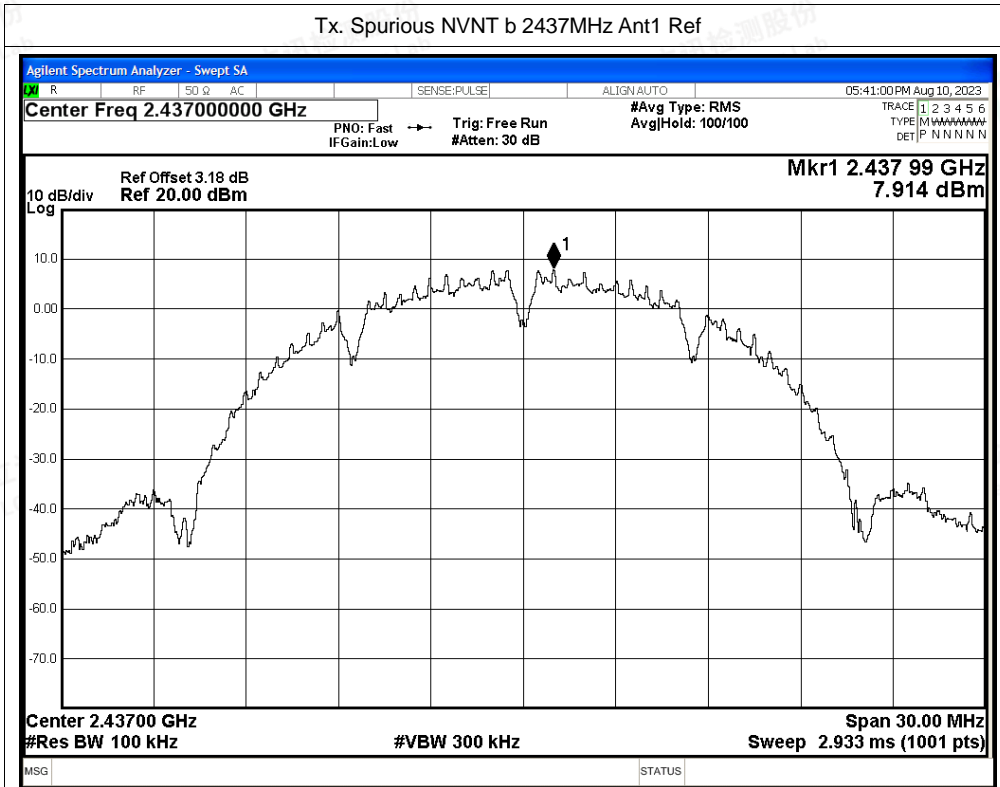
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

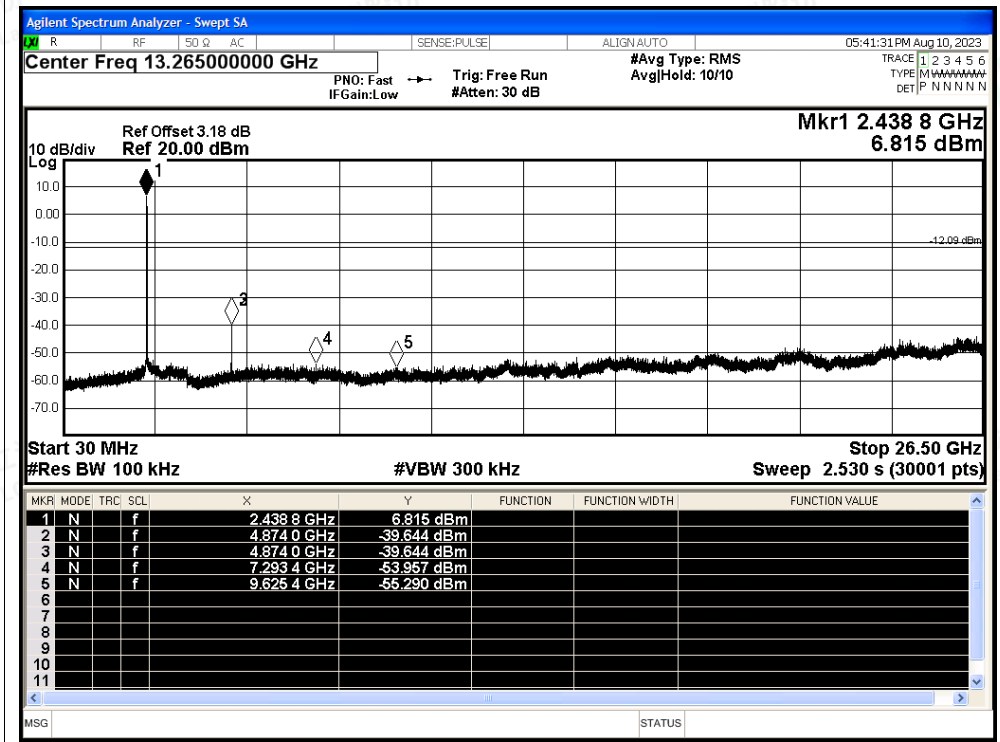
Scan code to check authenticity



Tx. Spurious NVNT b 2437MHz Ant1 Ref

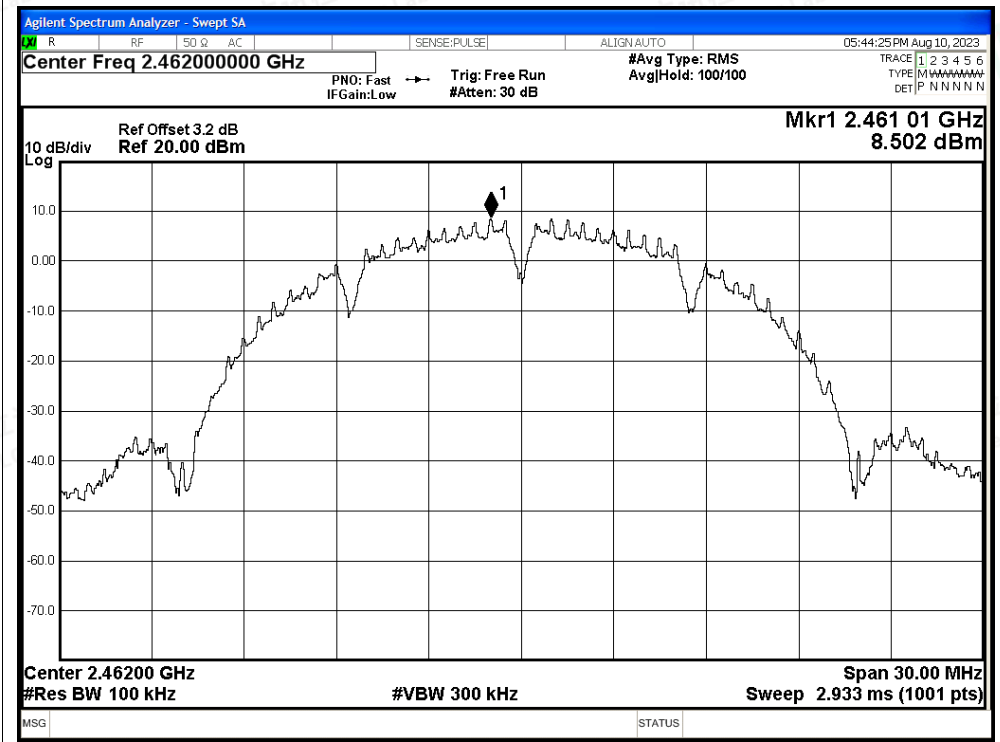


Tx. Spurious NVNT b 2437MHz Ant1 Emission

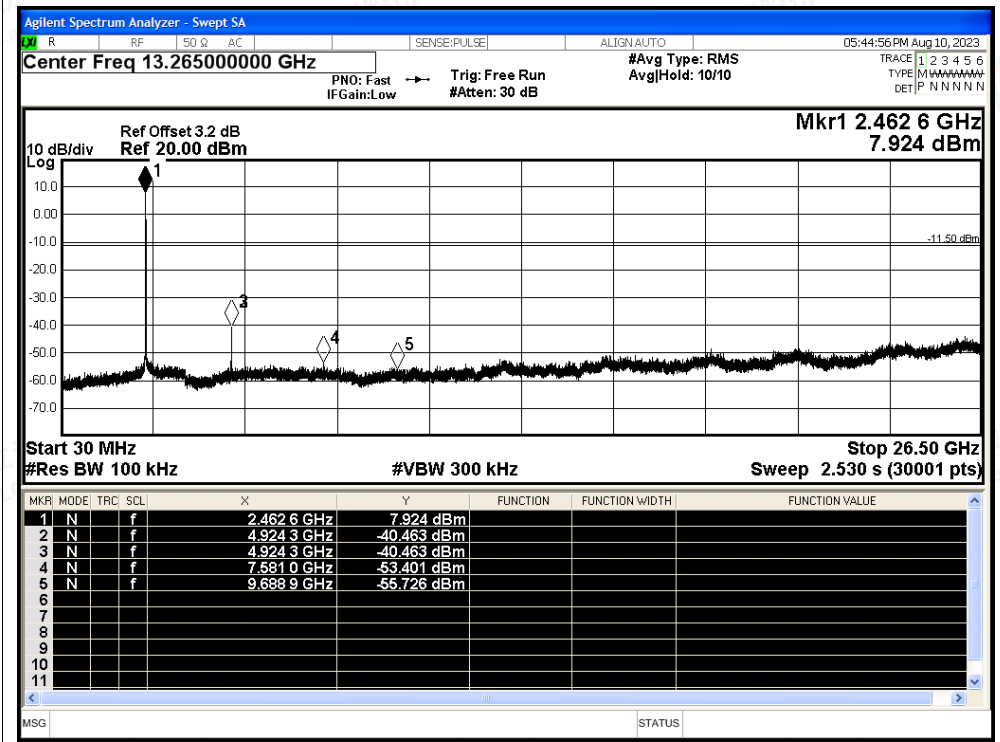




Tx. Spurious NVNT b 2462MHz Ant1 Ref

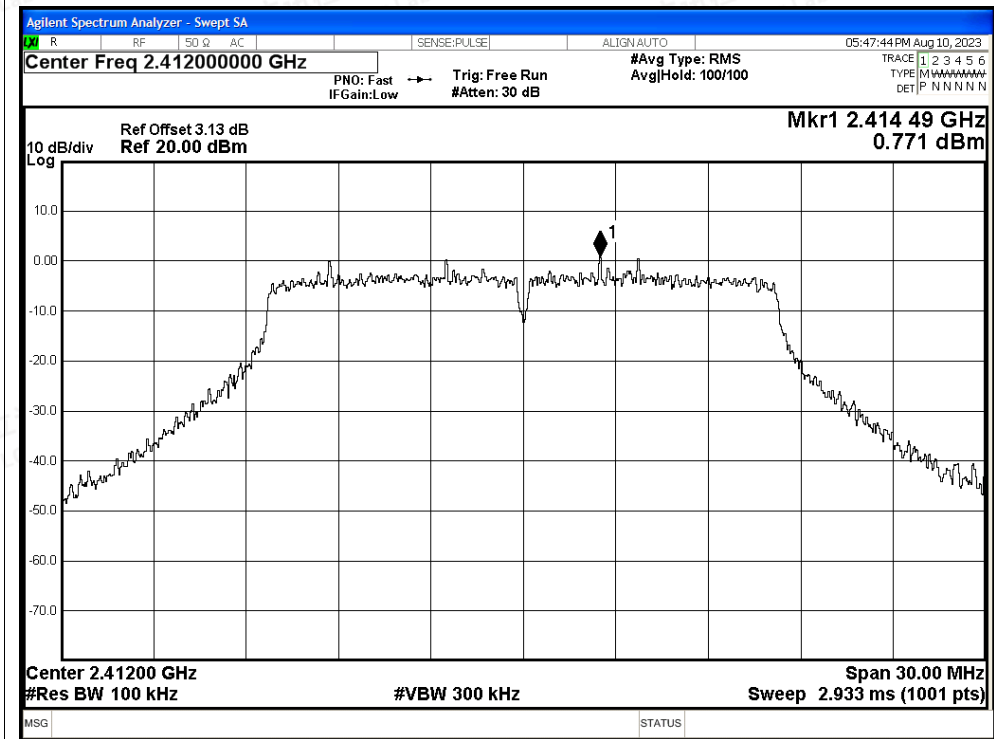


Tx. Spurious NVNT b 2462MHz Ant1 Emission

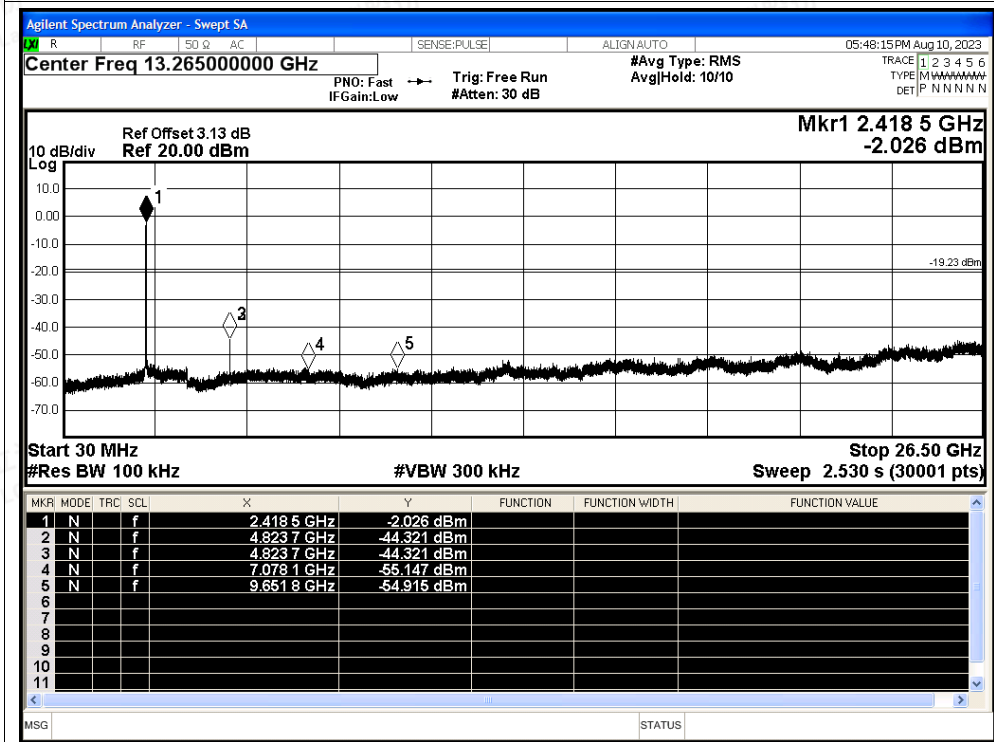




Tx. Spurious NVNT g 2412MHz Ant1 Ref

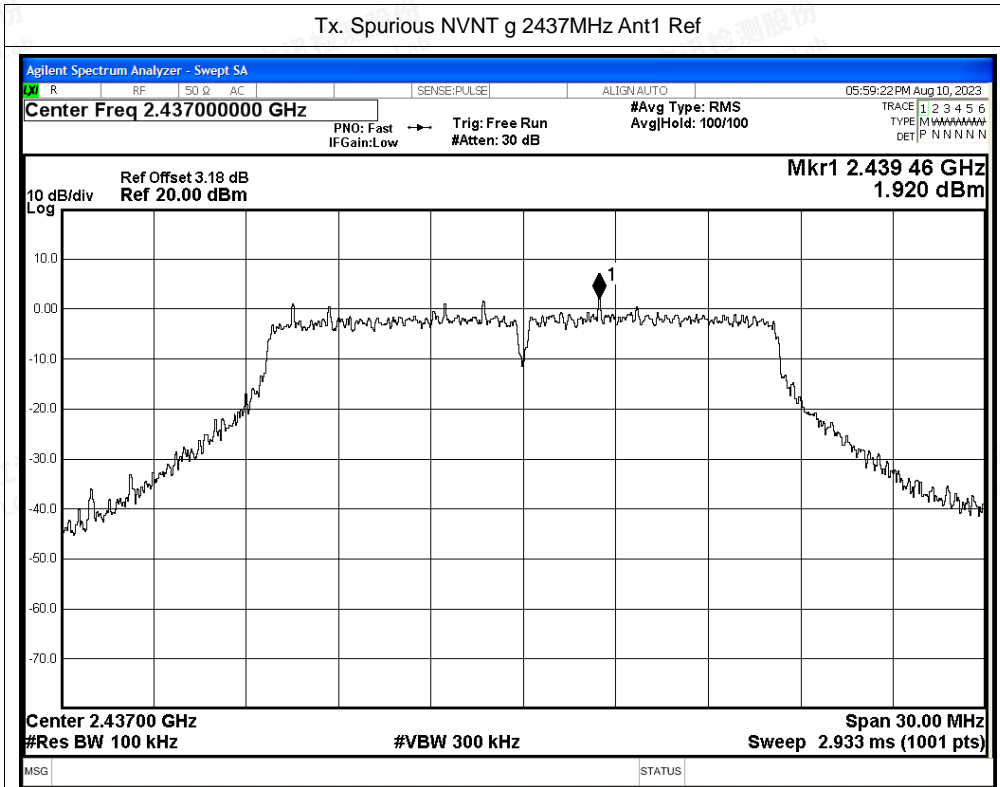


Tx. Spurious NVNT g 2412MHz Ant1 Emission

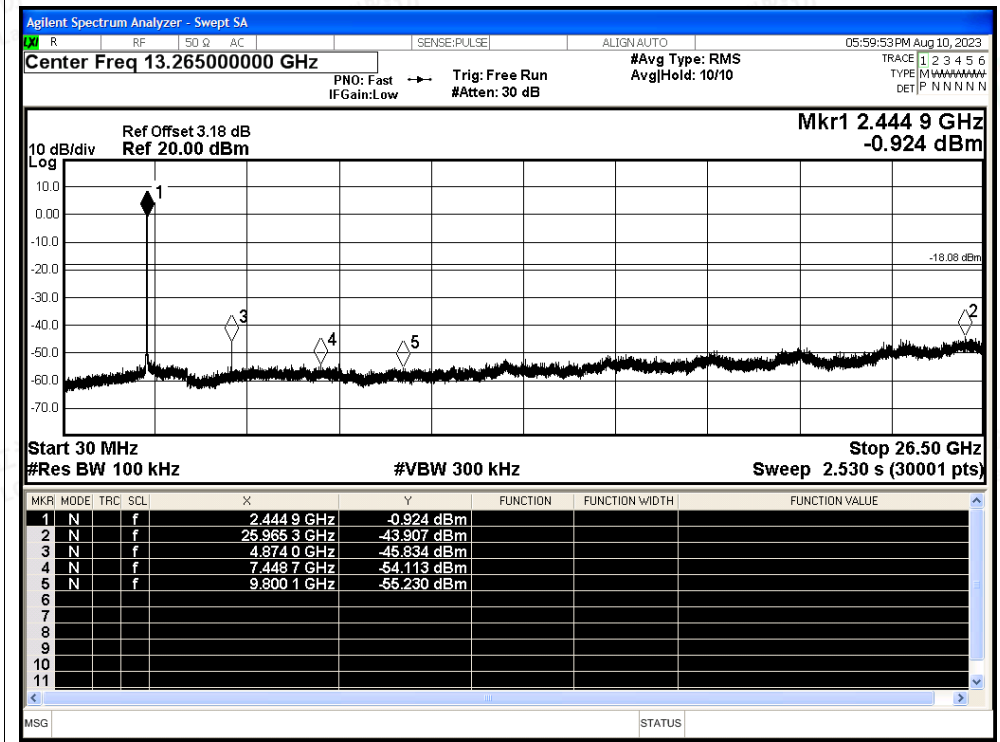




Tx. Spurious NVNT g 2437MHz Ant1 Ref

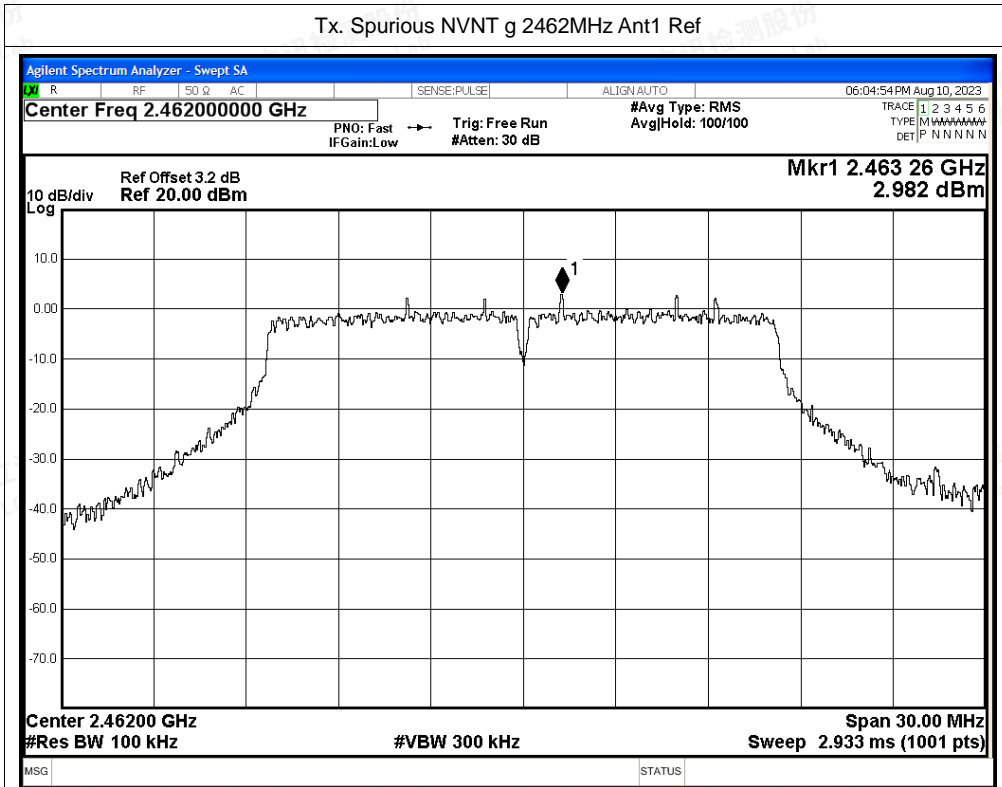


Tx. Spurious NVNT g 2437MHz Ant1 Emission

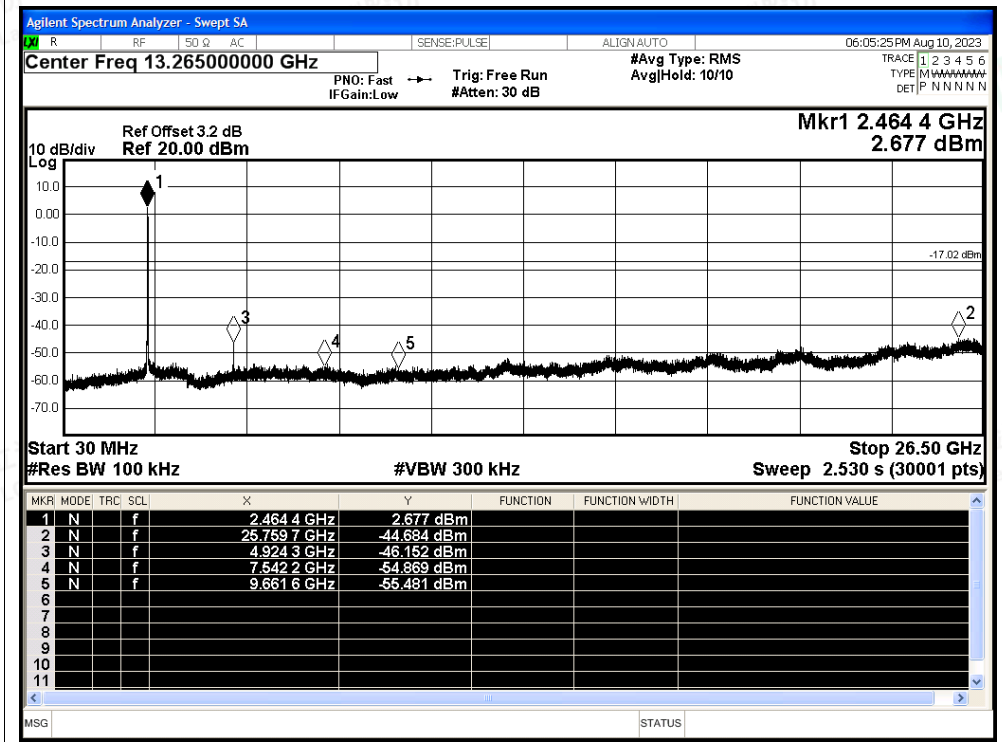




Tx. Spurious NVNT g 2462MHz Ant1 Ref

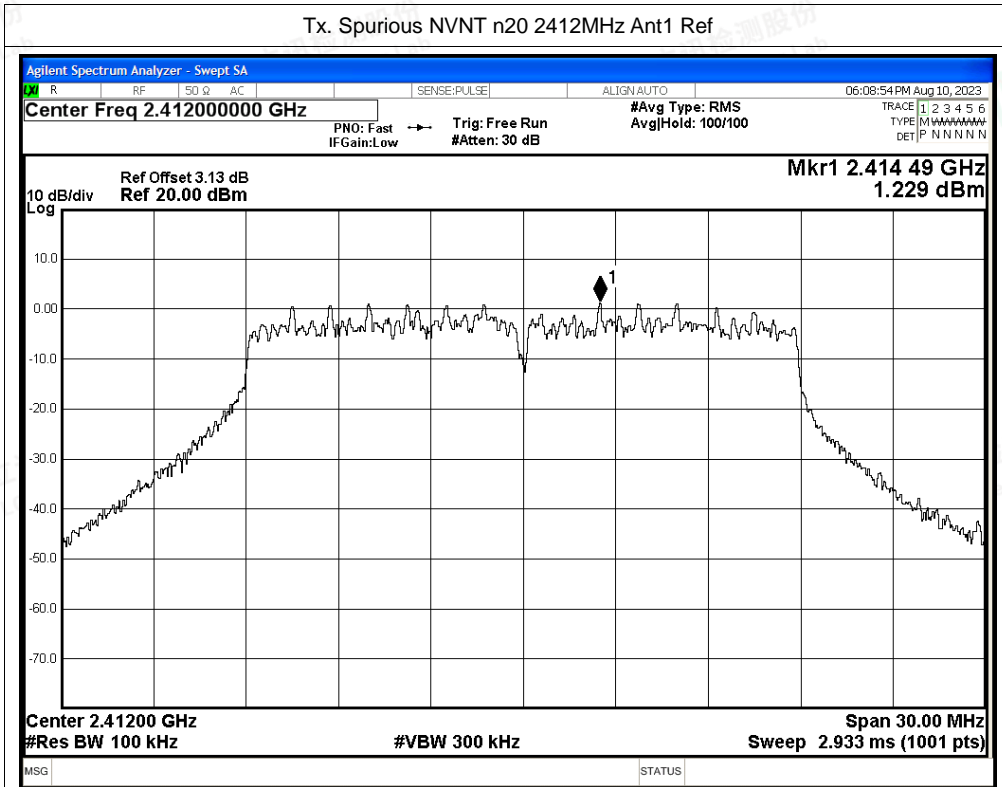


Tx. Spurious NVNT g 2462MHz Ant1 Emission

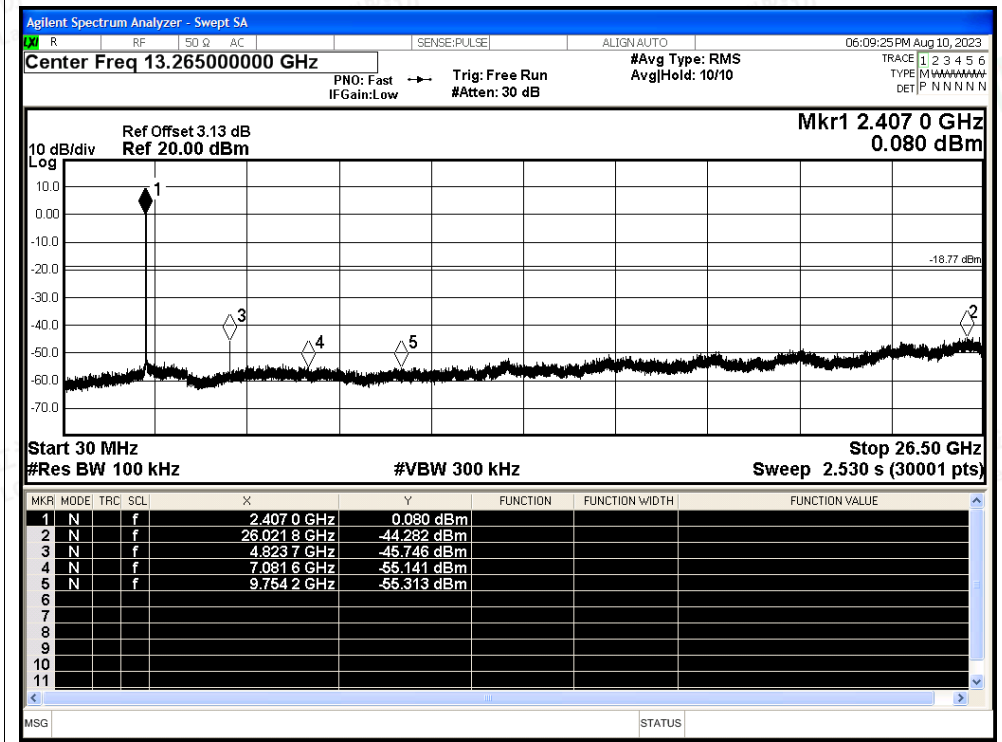




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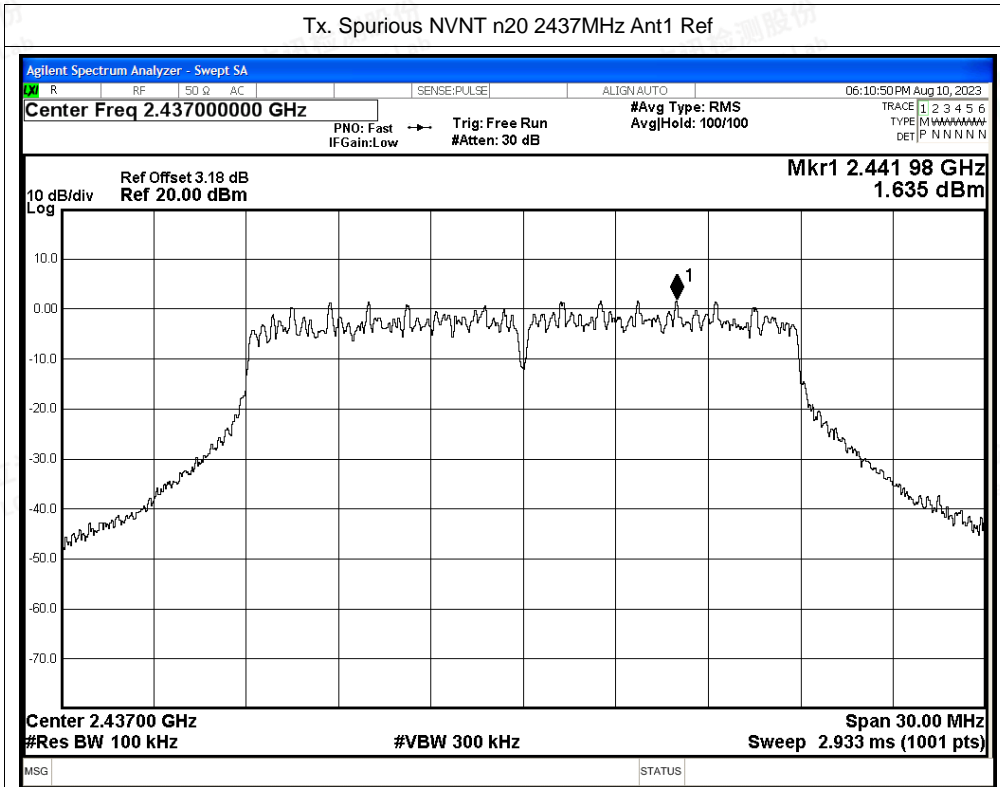


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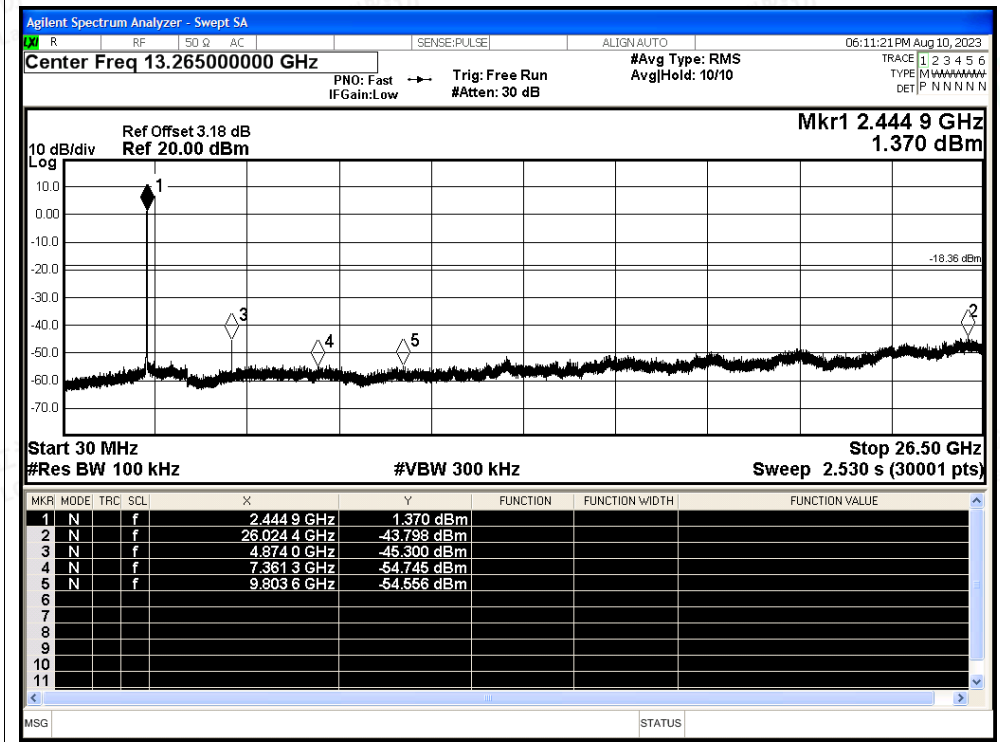




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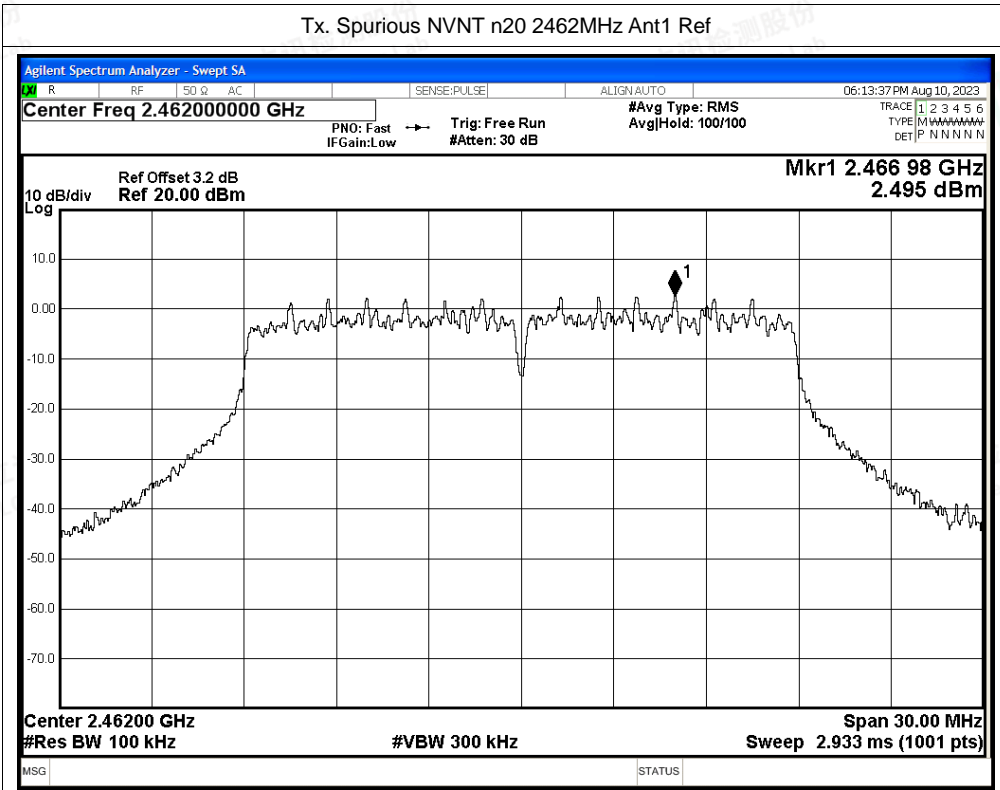


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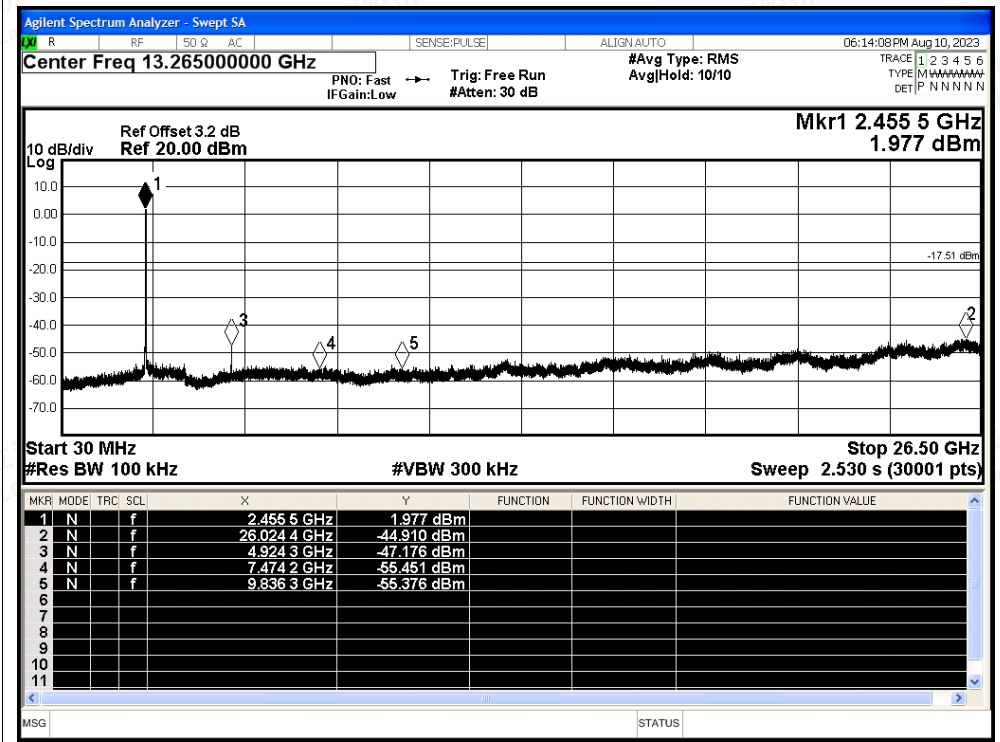




Tx. Spurious NVNT n20 2462MHz Ant1 Ref

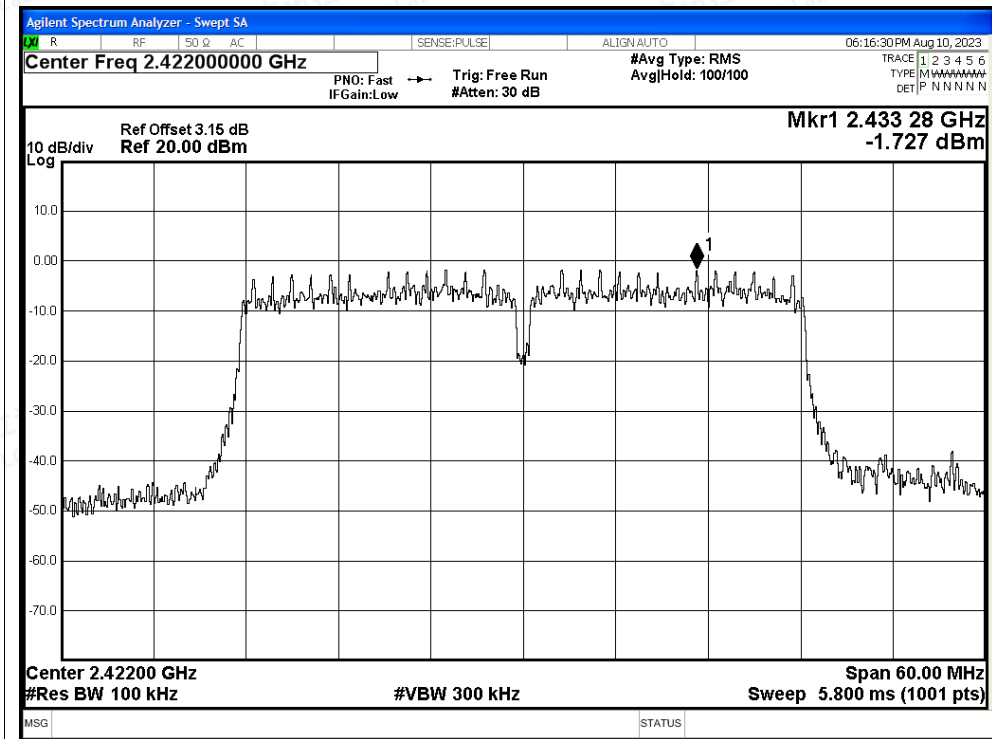


Tx. Spurious NVNT n20 2462MHz Ant1 Emission

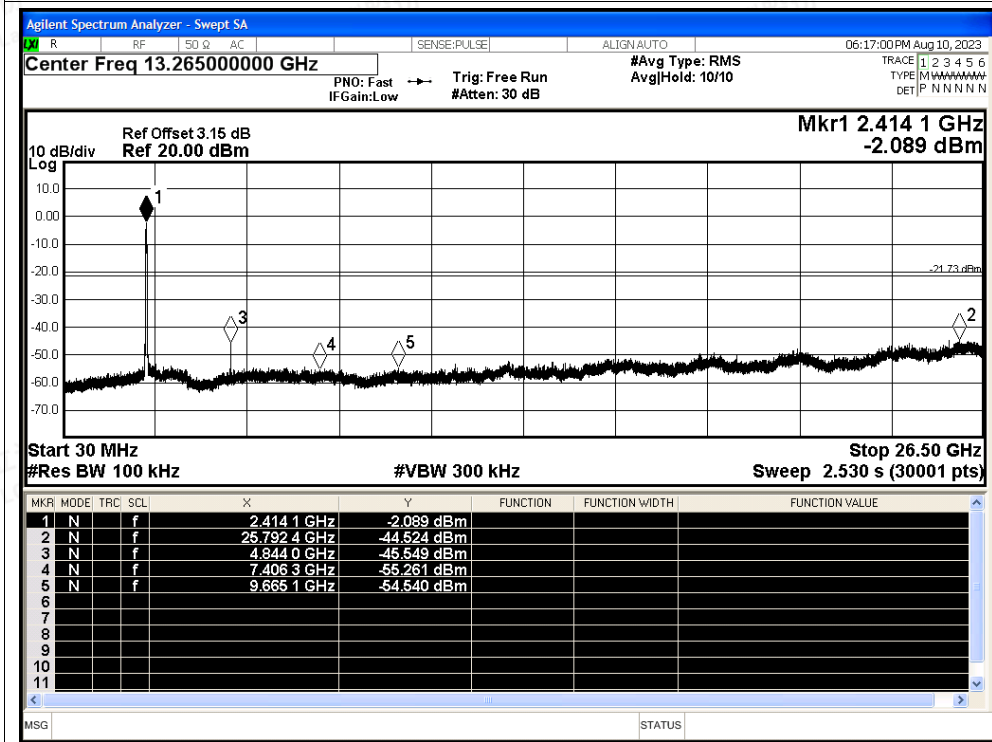




Tx. Spurious NVNT n40 2422MHz Ant1 Ref

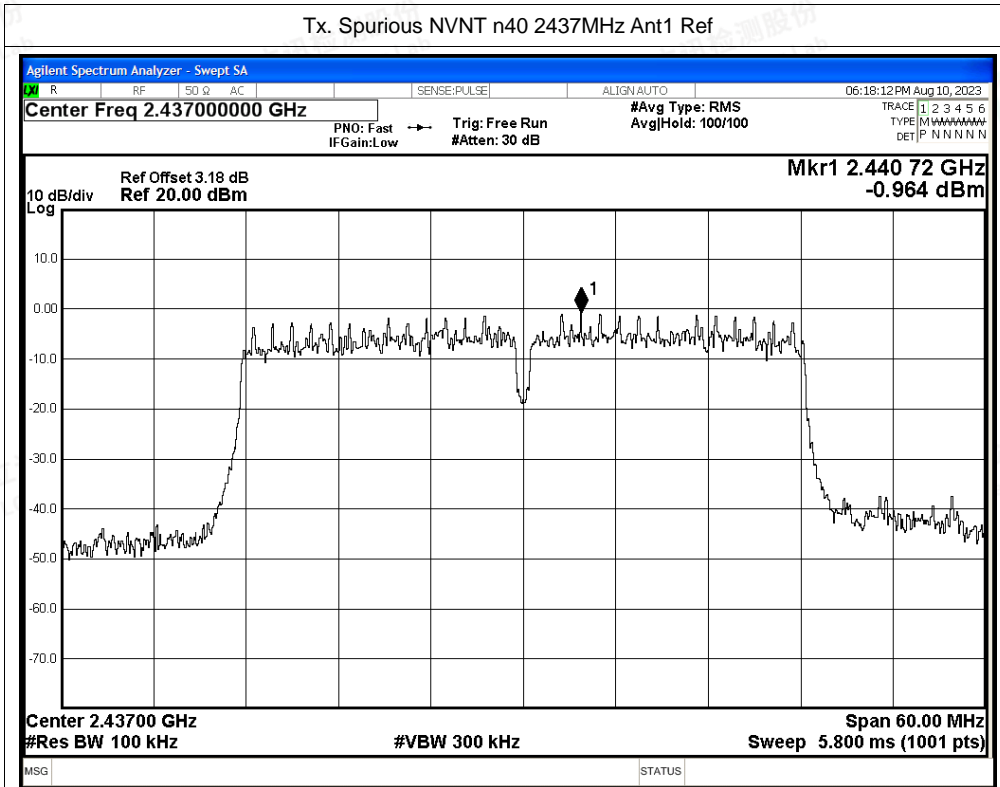


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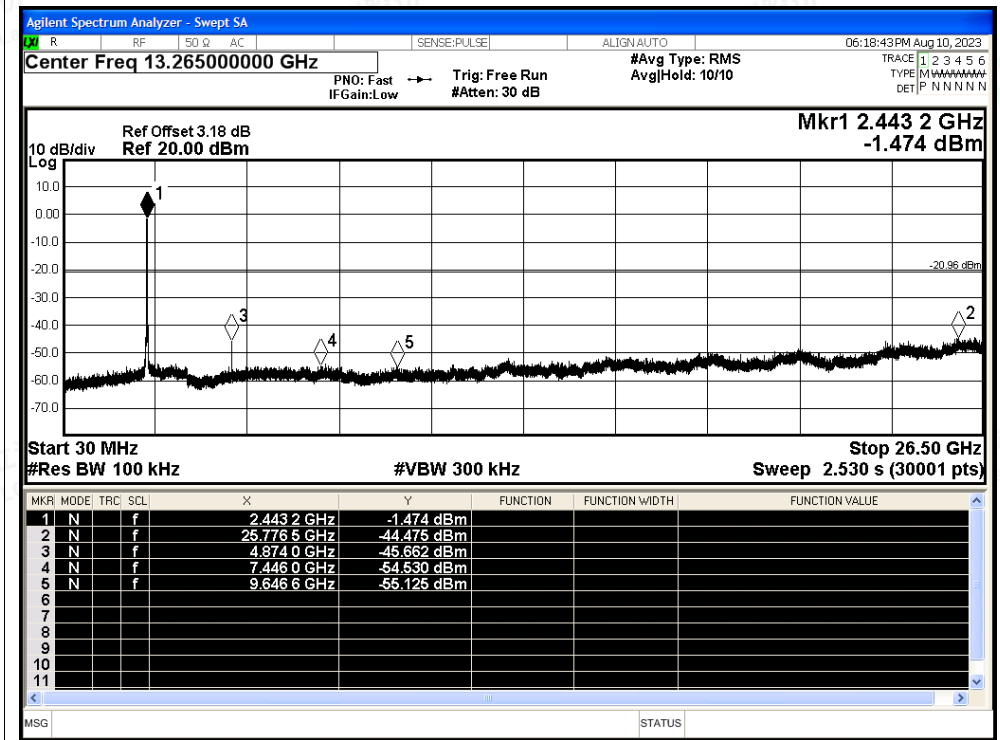




Tx. Spurious NVNT n40 2437MHz Ant1 Ref

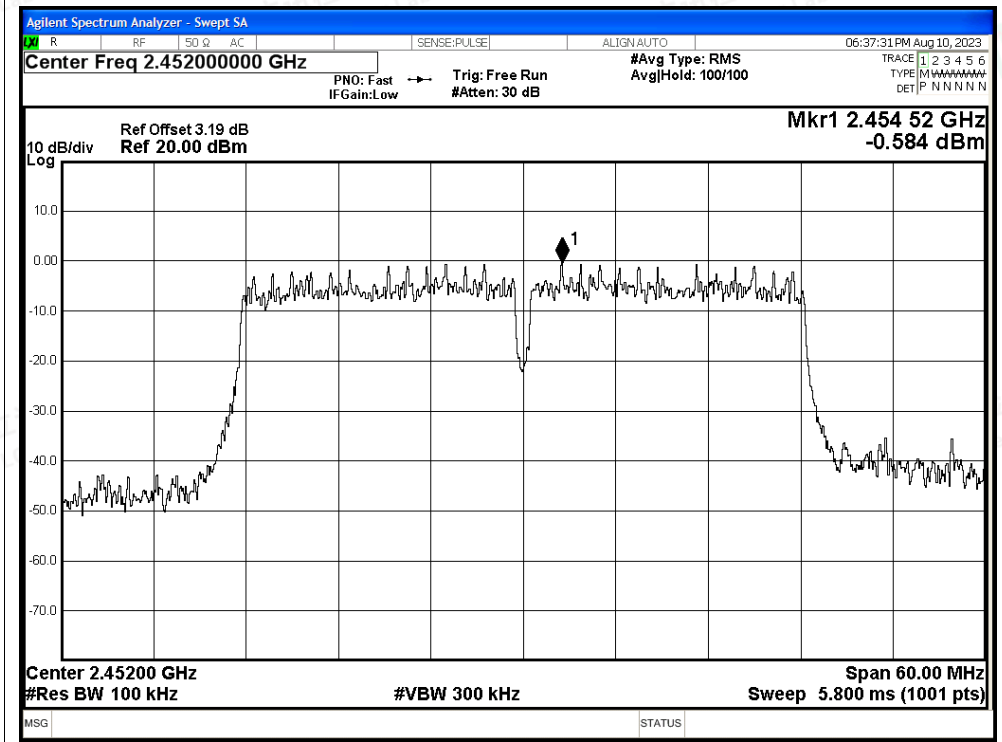


Tx. Spurious NVNT n40 2437MHz Ant1 Emission

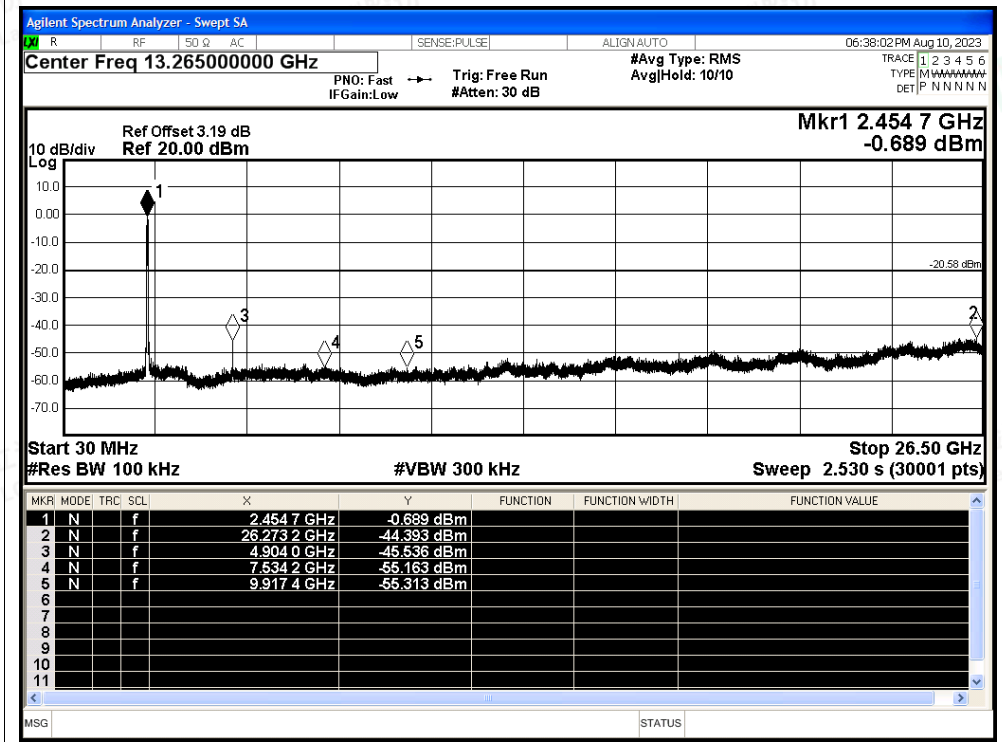




Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission





C.6 Duty Cycle

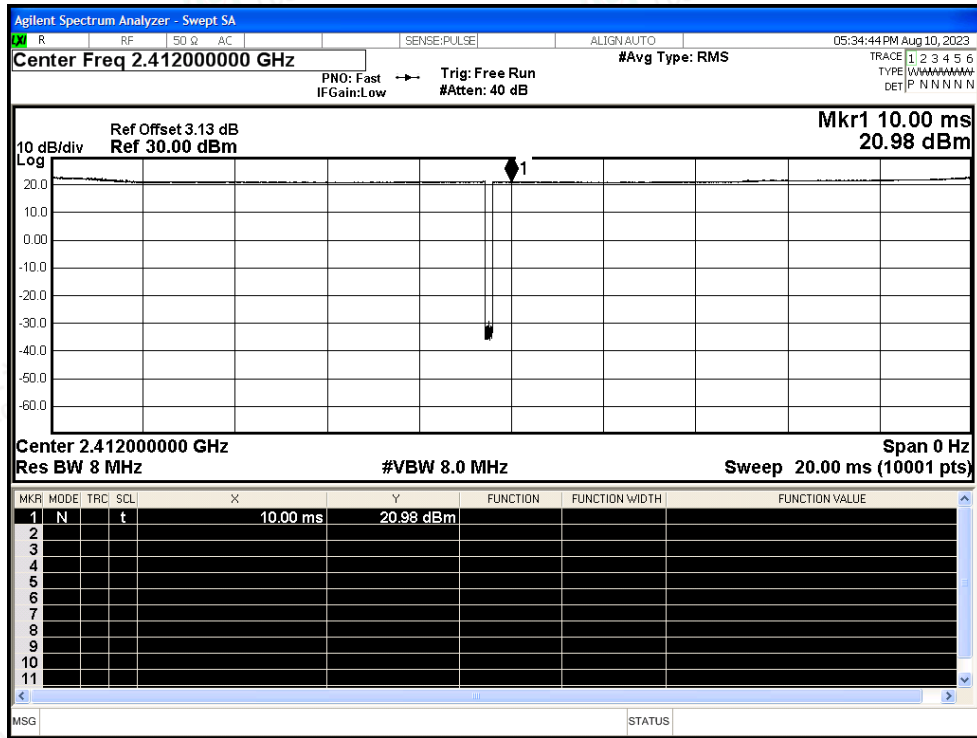
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.21	0	0
NVNT	b	2437	Ant1	99.42	0	0.08
NVNT	b	2462	Ant1	99.57	0	0.08
NVNT	g	2412	Ant1	97.45	0.11	0.48
NVNT	g	2437	Ant1	97.54	0.11	0.48
NVNT	g	2462	Ant1	98.29	0	0.48
NVNT	n20	2412	Ant1	68.45	1.65	4.35
NVNT	n20	2437	Ant1	81.56	0.89	4.35
NVNT	n20	2462	Ant1	67.86	1.68	4.39
NVNT	n40	2422	Ant1	54.24	2.66	7.81
NVNT	n40	2437	Ant1	54.24	2.66	7.81
NVNT	n40	2452	Ant1	44.14	3.55	7.81



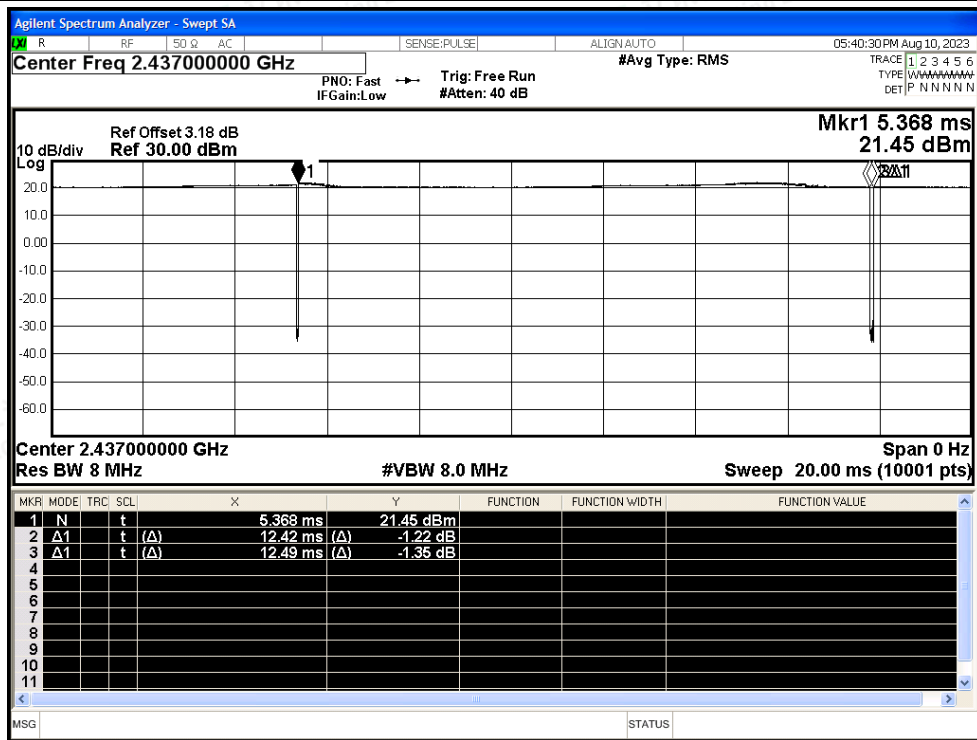


Test Graphs

Duty Cycle NVNT b 2412MHz Ant1

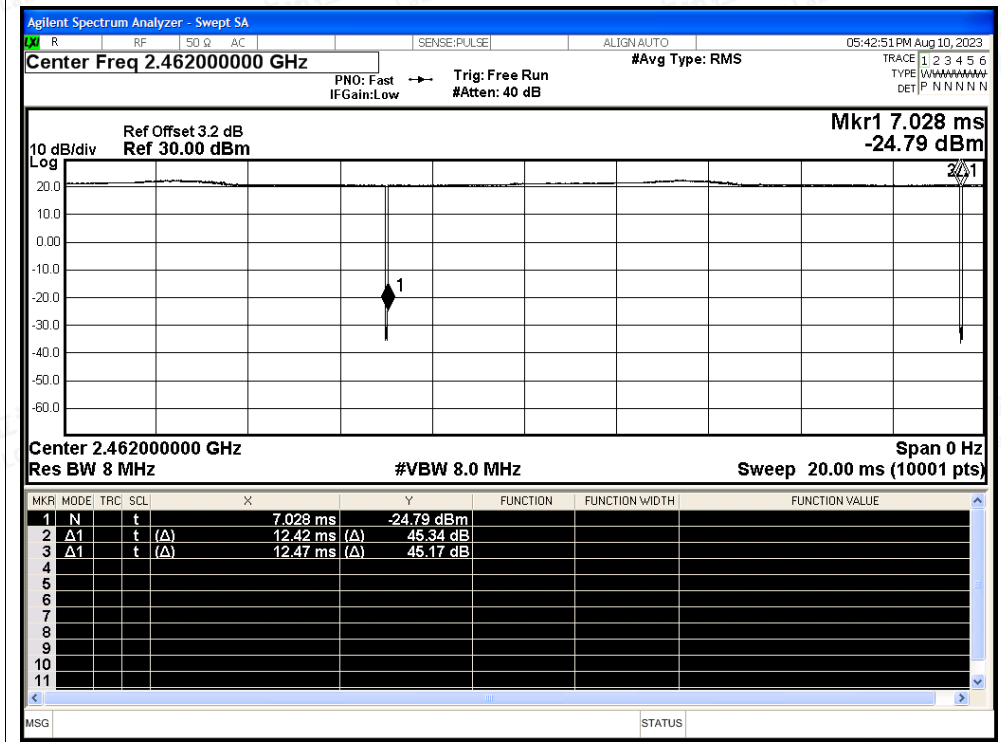


Duty Cycle NVNT b 2437MHz Ant1

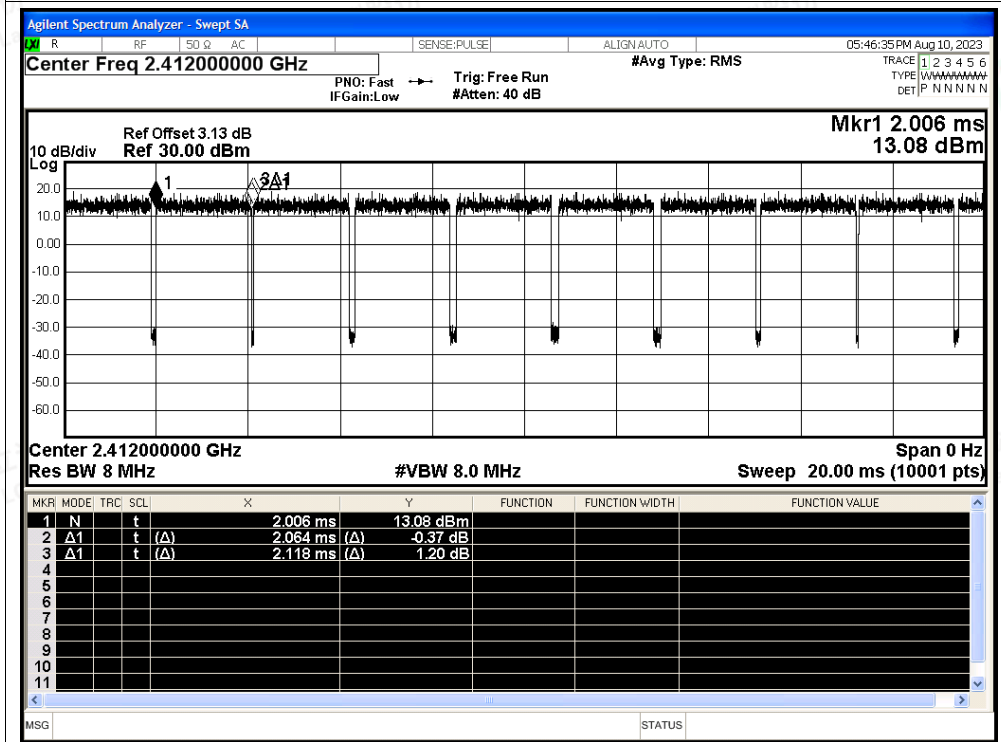


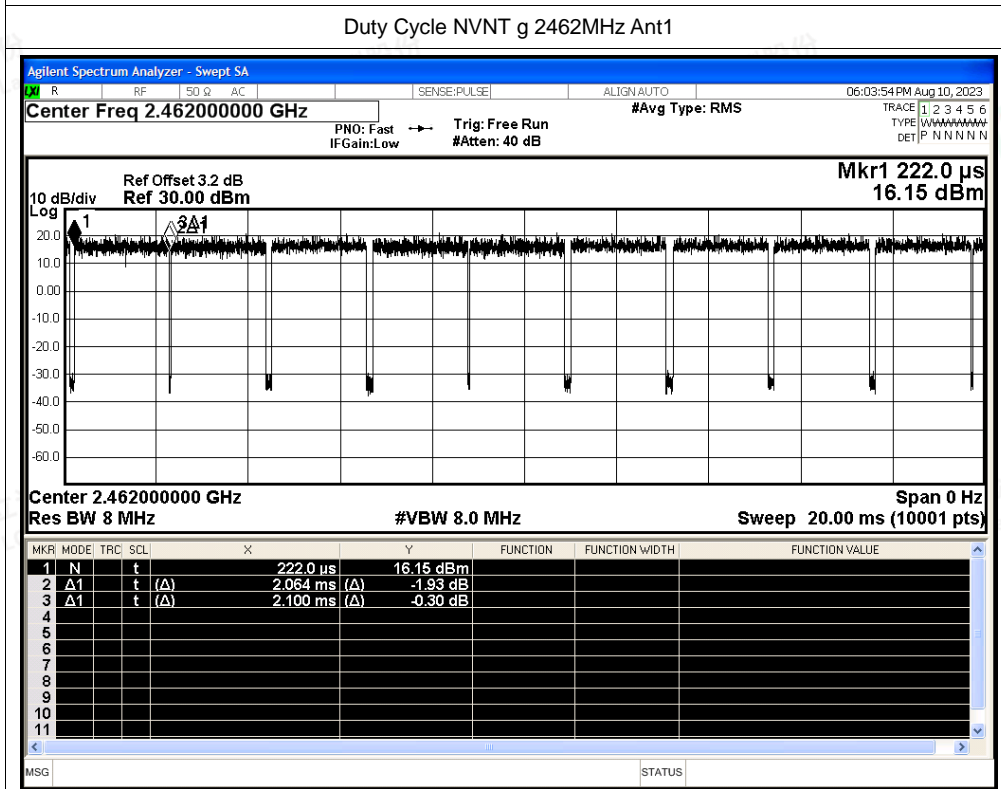
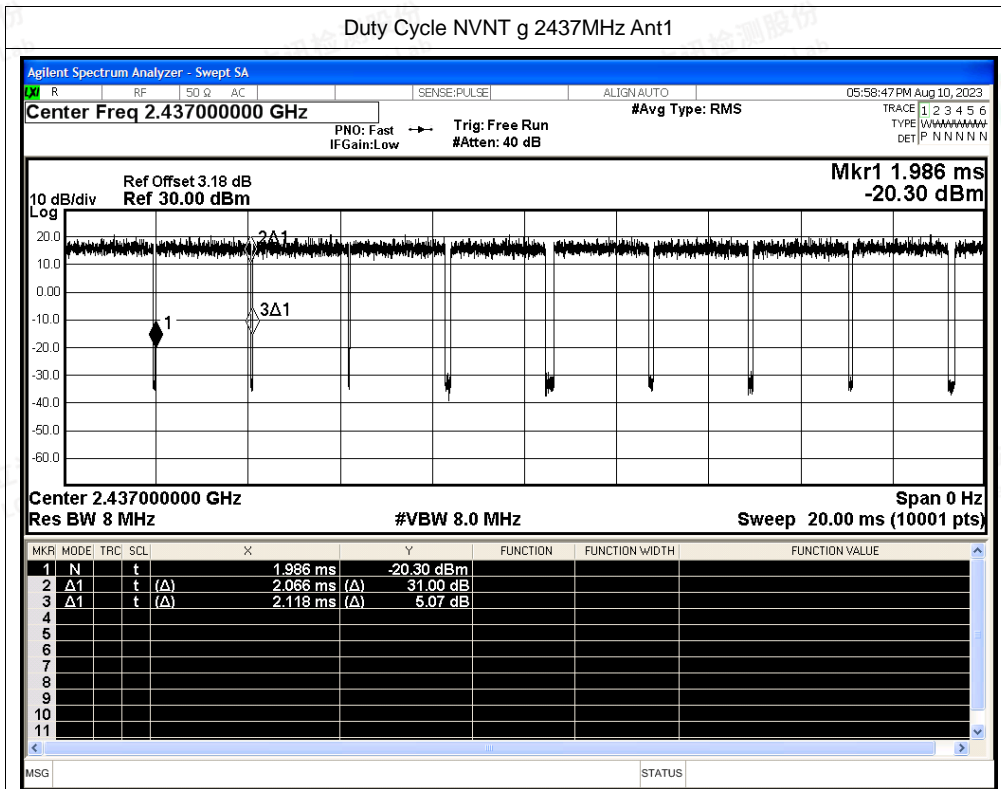


Duty Cycle NVNT b 2462MHz Ant1



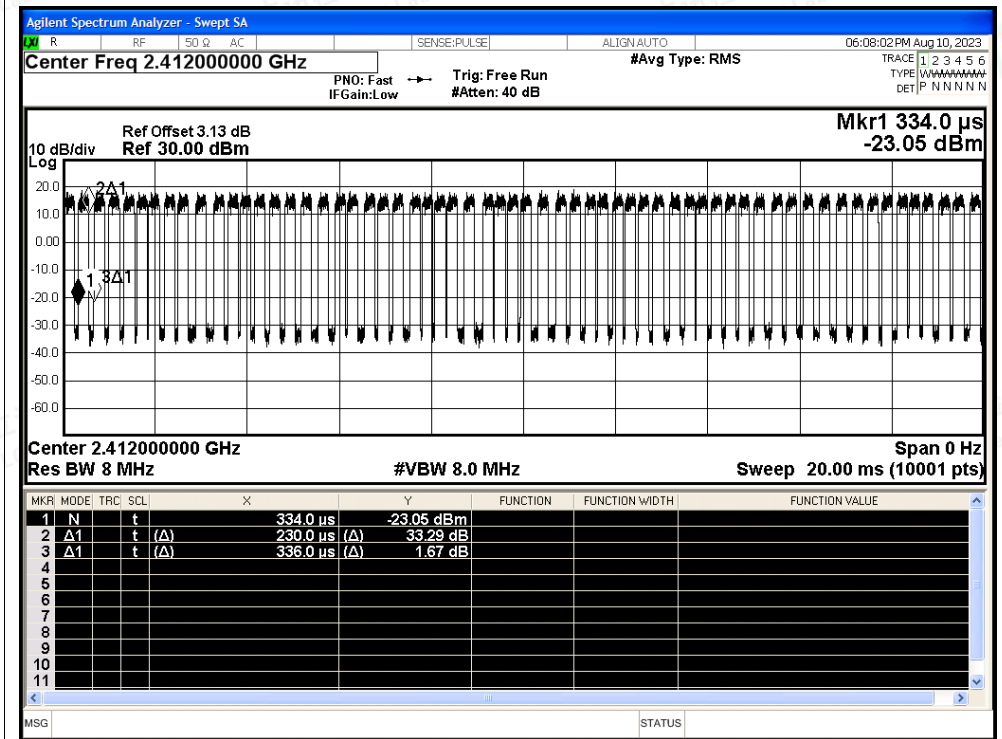
Duty Cycle NVNT g 2412MHz Ant1



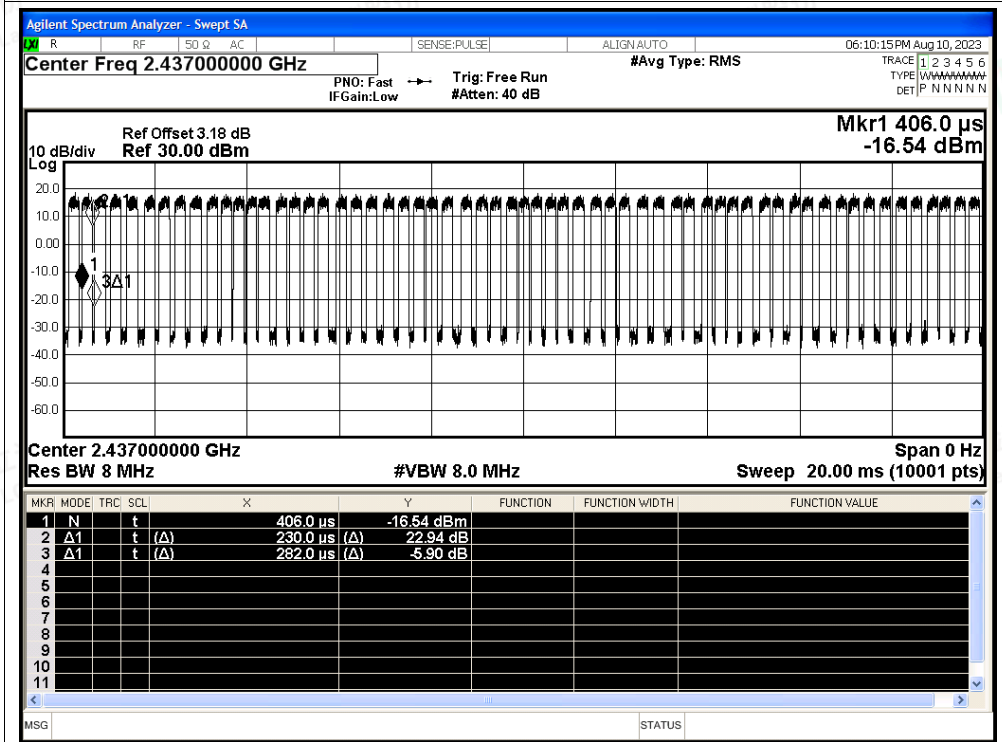




Duty Cycle NVNT n20 2412MHz Ant1

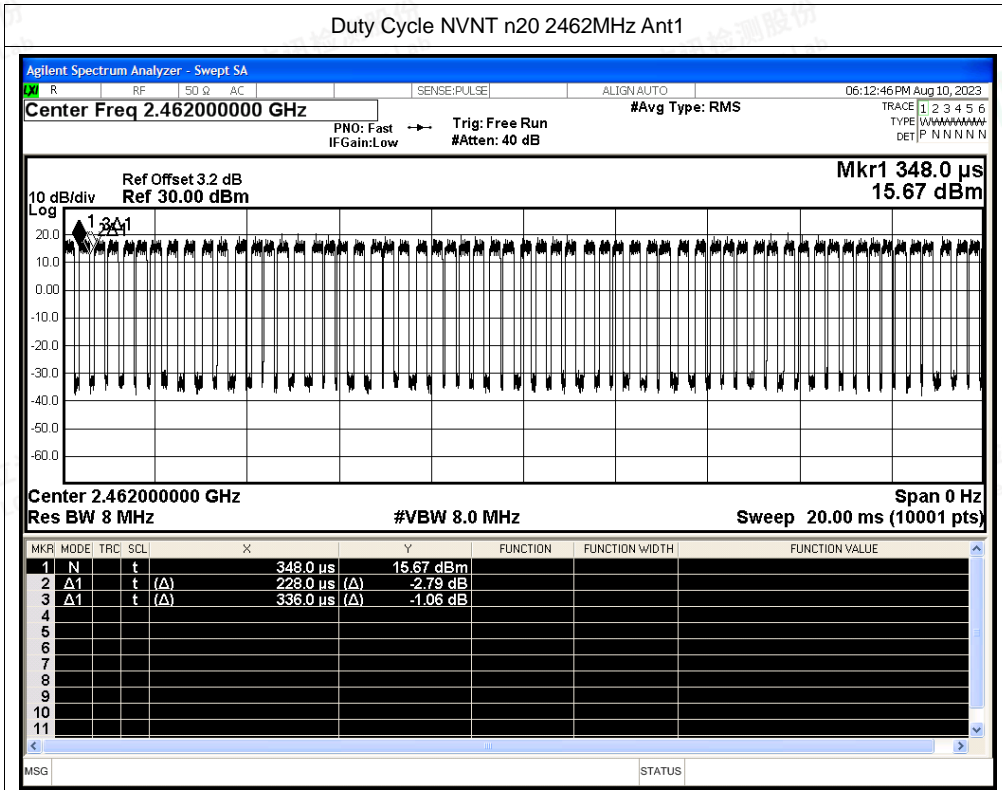


Duty Cycle NVNT n20 2437MHz Ant1

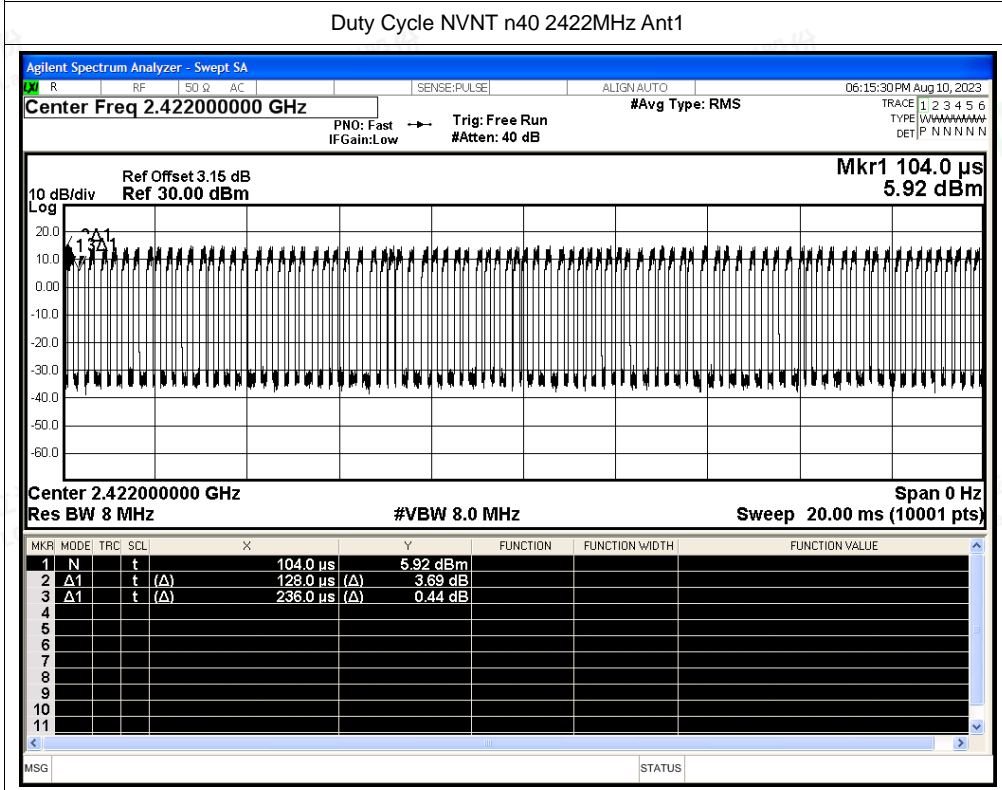




Duty Cycle NVNT n20 2462MHz Ant1

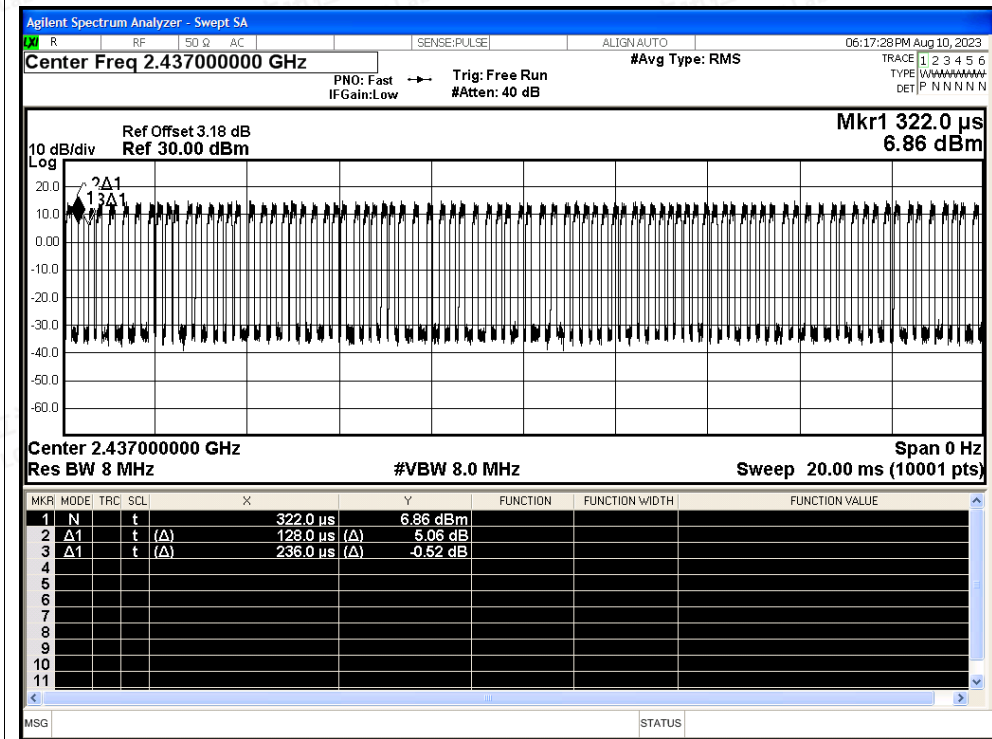


Duty Cycle NVNT n40 2422MHz Ant1

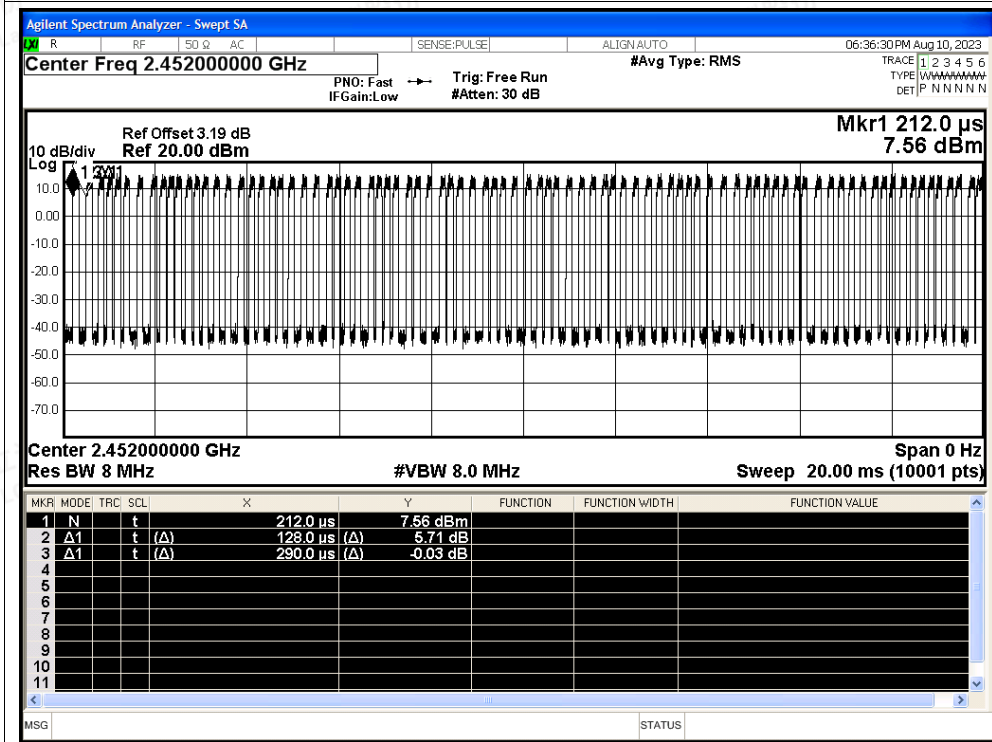




Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1





C.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-48.41	2.85	49.67	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-55.76	2.85	42.32	Average	54	Pass
NVNT	b	2412	Ant1	2385.816	-40.9	2.85	57.18	Peak	74	Pass
NVNT	b	2412	Ant1	2369.436	-48.66	2.85	49.42	Average	54	Pass
NVNT	b	2412	Ant1	2390	-44.17	2.85	53.91	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-51.18	2.85	46.90	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-43.31	2.85	54.77	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-50.43	2.85	47.65	Average	54	Pass
NVNT	b	2462	Ant1	2489.241	-41	2.85	57.08	Peak	74	Pass
NVNT	b	2462	Ant1	2483.517	-50.43	2.85	47.65	Average	54	Pass
NVNT	b	2462	Ant1	2500	-44.52	2.85	53.56	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-52.24	2.85	45.84	Average	54	Pass
NVNT	g	2412	Ant1	2310	-48.24	2.85	49.84	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-55.91	2.85	42.17	Average	54	Pass
NVNT	g	2412	Ant1	2388.39	-38.38	2.85	59.70	Peak	74	Pass
NVNT	g	2412	Ant1	2389.794	-50.86	2.85	47.22	Average	54	Pass
NVNT	g	2412	Ant1	2390	-41.11	2.85	56.97	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-50.79	2.85	47.29	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-32.42	2.85	65.66	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-44.52	2.85	53.56	Average	54	Pass
NVNT	g	2462	Ant1	2485.796	-28.05	2.85	70.03	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-44.52	2.85	53.56	Average	54	Pass
NVNT	g	2462	Ant1	2500	-45.05	2.85	53.03	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-52.31	2.85	45.77	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-48.16	2.85	49.92	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-55.04	2.85	43.04	Average	54	Pass
NVNT	n20	2412	Ant1	2386.401	-40.23	2.85	57.85	Peak	74	Pass
NVNT	n20	2412	Ant1	2389.911	-49	2.85	49.08	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-41.2	2.85	56.88	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-48.77	2.85	49.31	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-46.68	2.85	51.40	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-53.55	2.85	44.53	Average	54	Pass
NVNT	n20	2462	Ant1	2483.57	-44.13	2.85	53.95	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.517	-52.93	2.85	45.15	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-47.25	2.85	50.83	Peak	74	Pass
NVNT	n20	2462	Ant1	2500	-54.02	2.85	44.06	Average	54	Pass
NVNT	n40	2422	Ant1	2310	-47.74	2.85	50.34	Peak	74	Pass





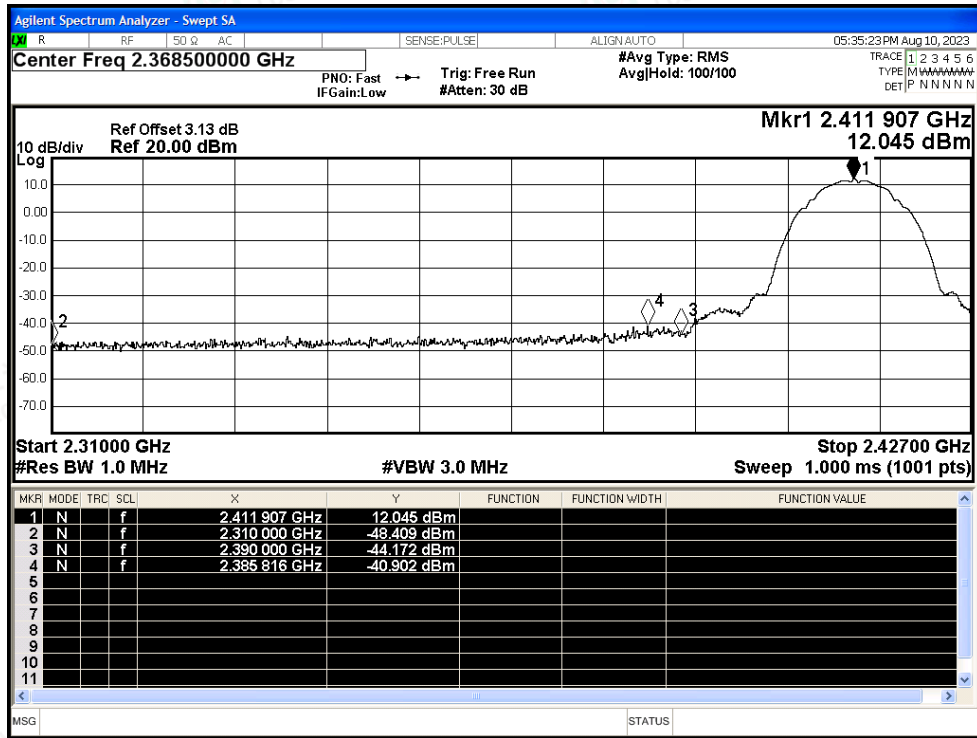
NVNT	n40	2422	Ant1	2310	-55.16	2.85	42.92	Average	54	Pass
NVNT	n40	2422	Ant1	2389.804	-46.42	2.85	51.66	Peak	74	Pass
NVNT	n40	2422	Ant1	2389.236	-53.52	2.85	44.56	Average	54	Pass
NVNT	n40	2422	Ant1	2390	-47.83	2.85	50.25	Peak	74	Pass
NVNT	n40	2422	Ant1	2390	-54.03	2.85	44.05	Average	54	Pass
NVNT	n40	2452	Ant1	2483.5	-45.28	2.85	52.80	Peak	74	Pass
NVNT	n40	2452	Ant1	2483.5	-51.82	2.85	46.26	Average	54	Pass
NVNT	n40	2452	Ant1	2485.804	-40.27	2.85	57.81	Peak	74	Pass
NVNT	n40	2452	Ant1	2485.726	-51.49	2.85	46.59	Average	54	Pass
NVNT	n40	2452	Ant1	2500	-45.97	2.85	52.11	Peak	74	Pass
NVNT	n40	2452	Ant1	2500	-53.06	2.85	45.02	Average	54	Pass



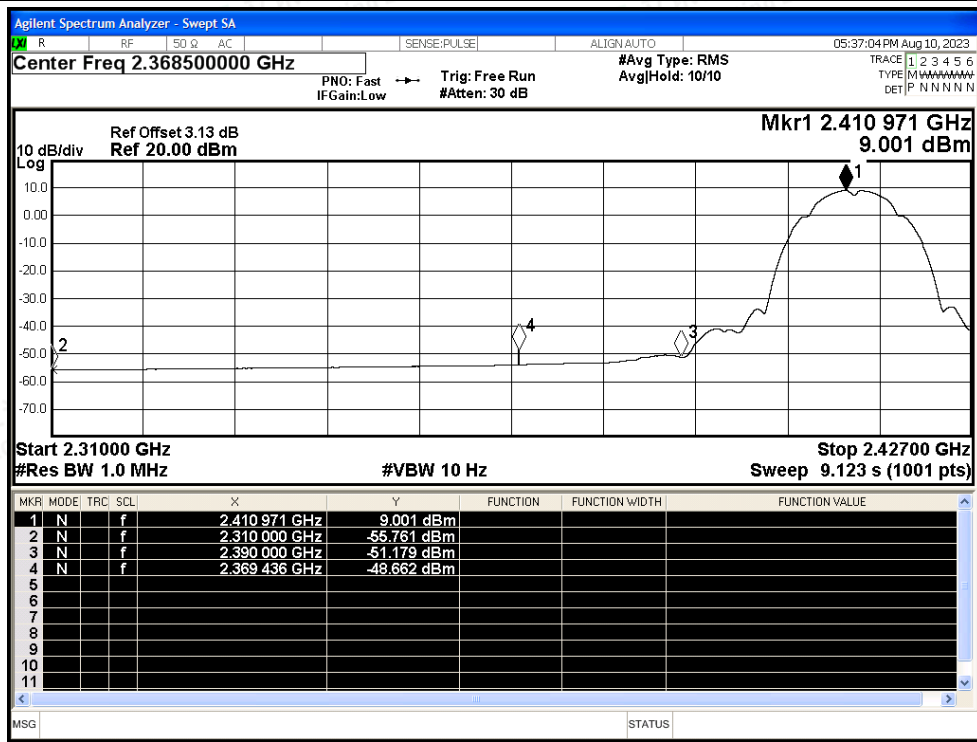


Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

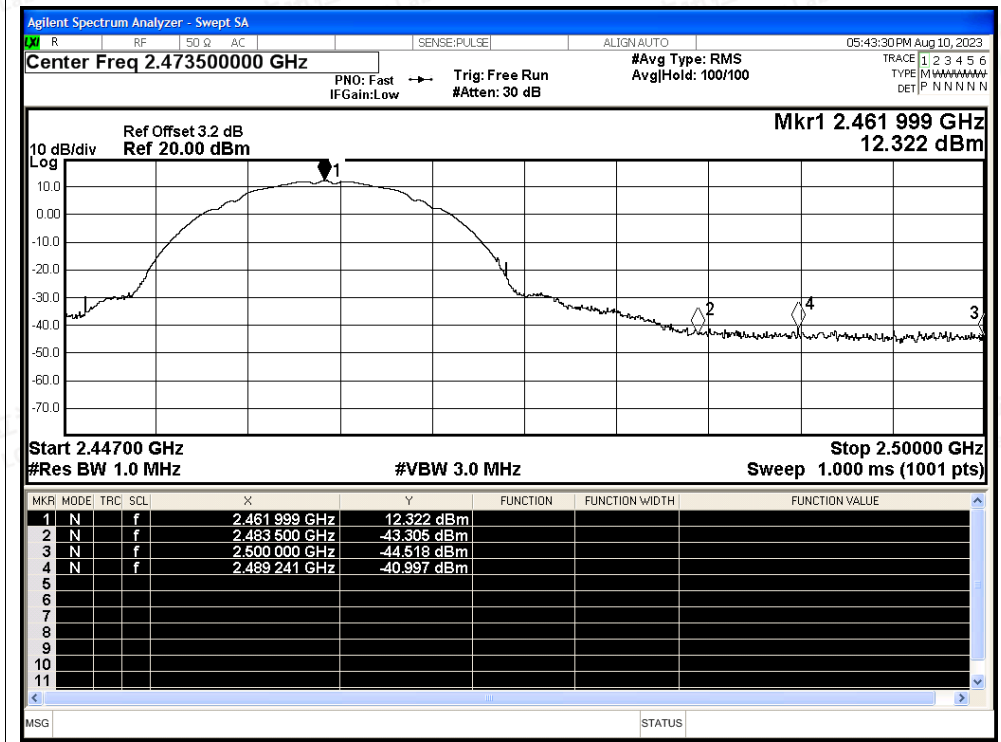
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

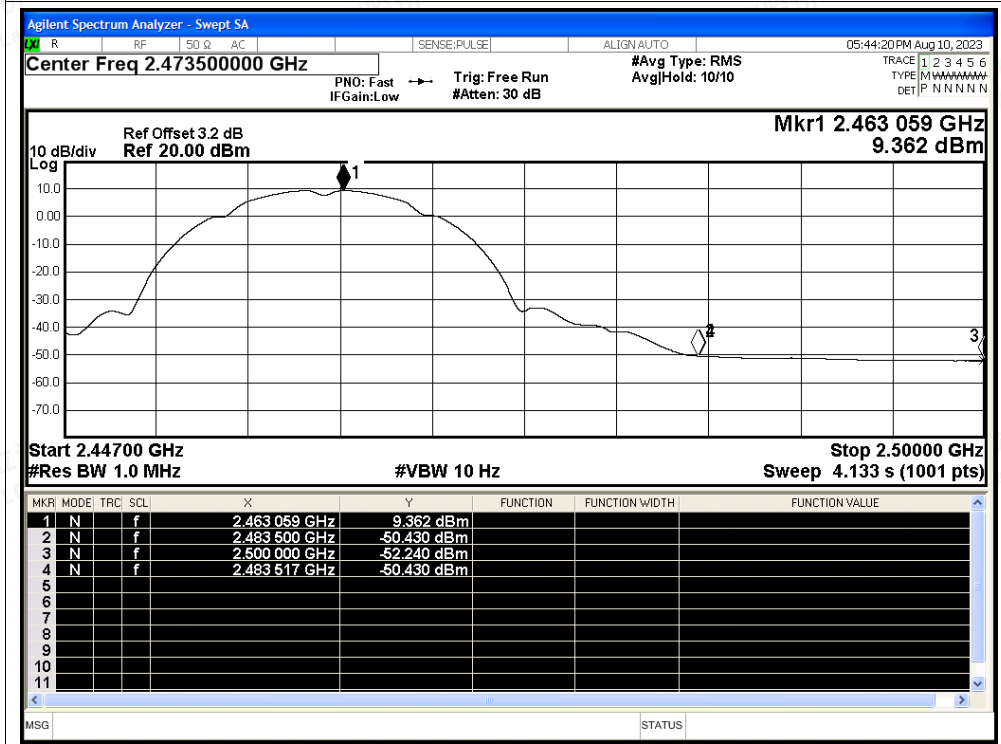
Scan code to check authenticity



Restrict Band NVNT b 2462MHz Ant1 Peak



Restrict Band NVNT b 2462MHz Ant1 Average

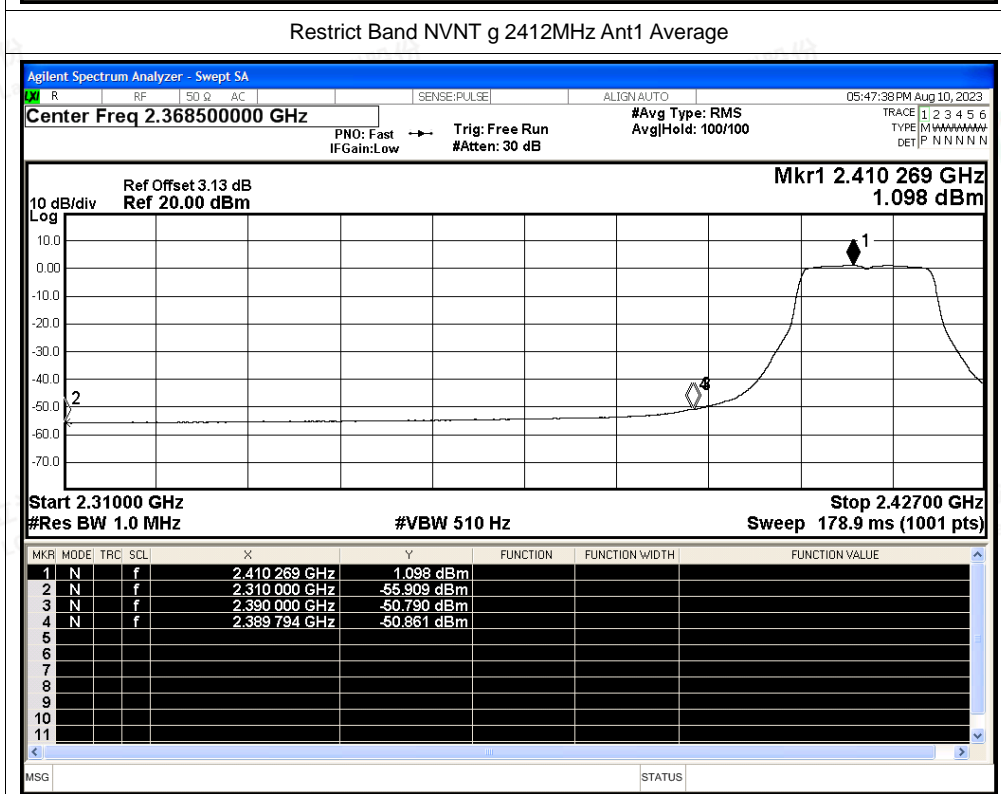
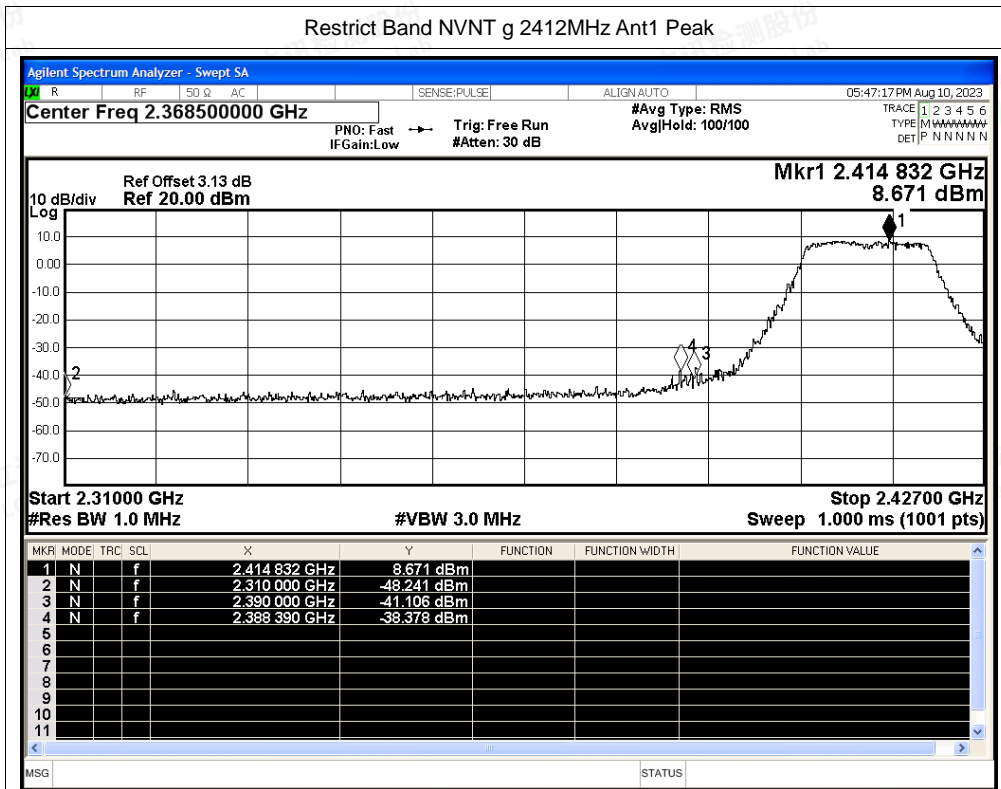


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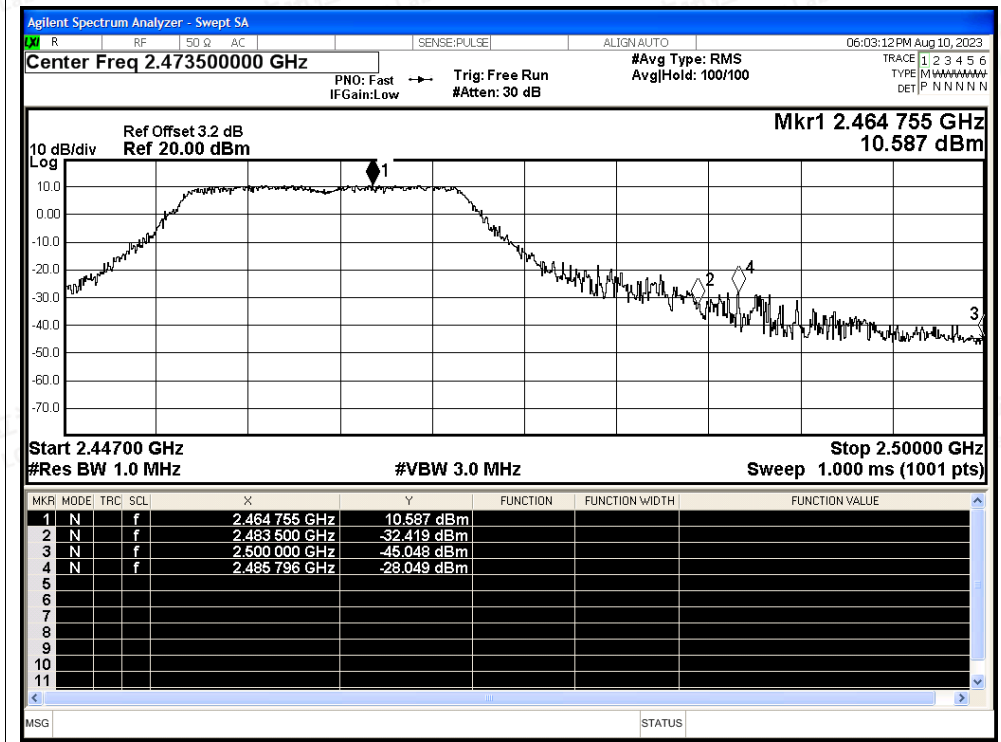
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

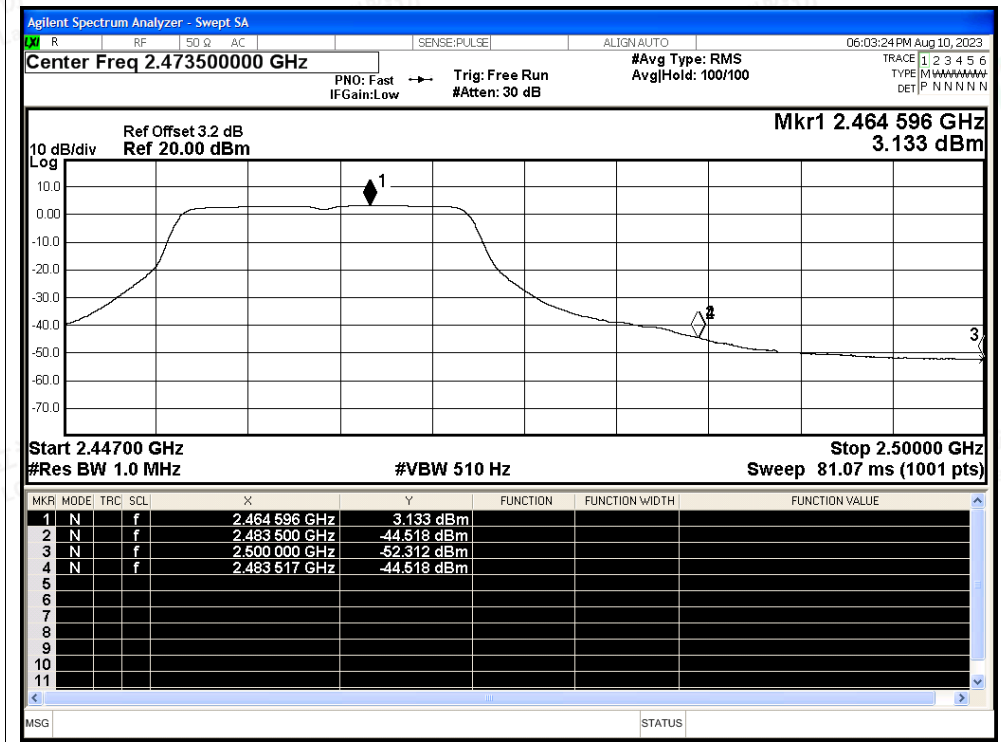
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Restrict Band NVNT g 2462MHz Ant1 Peak

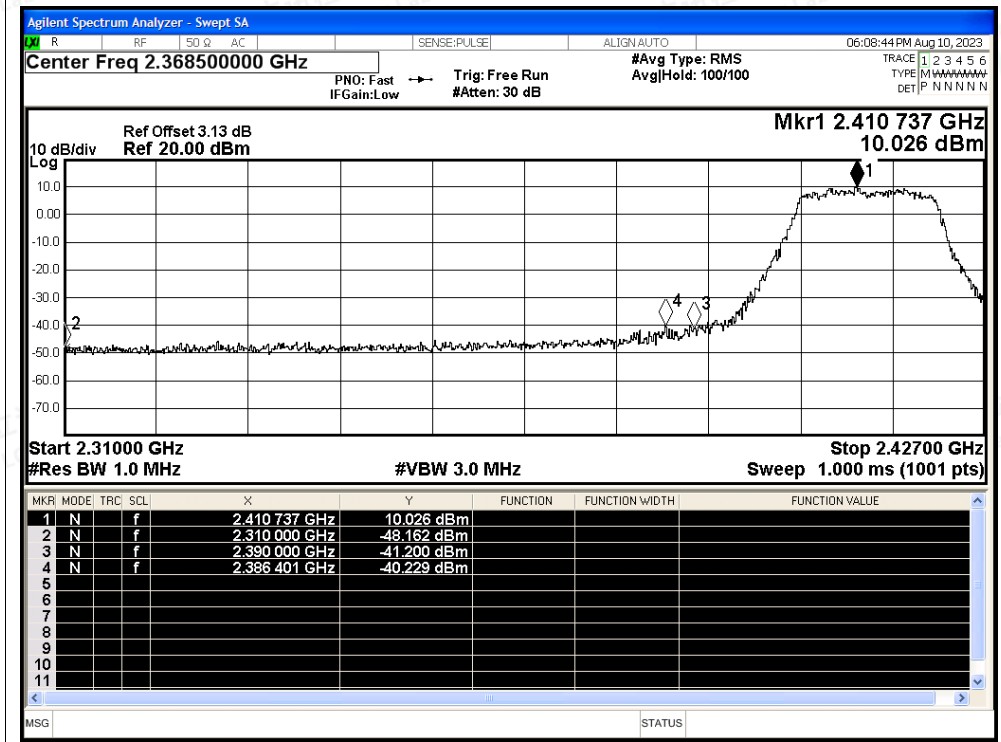


Restrict Band NVNT g 2462MHz Ant1 Average

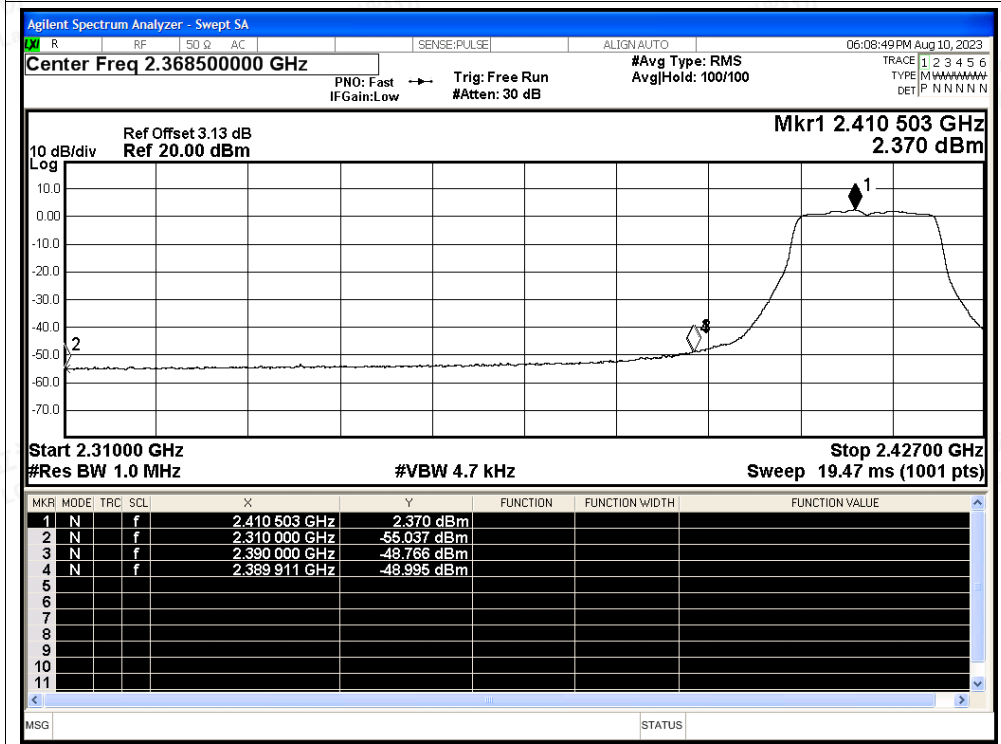




Restrict Band NVNT n20 2412MHz Ant1 Peak

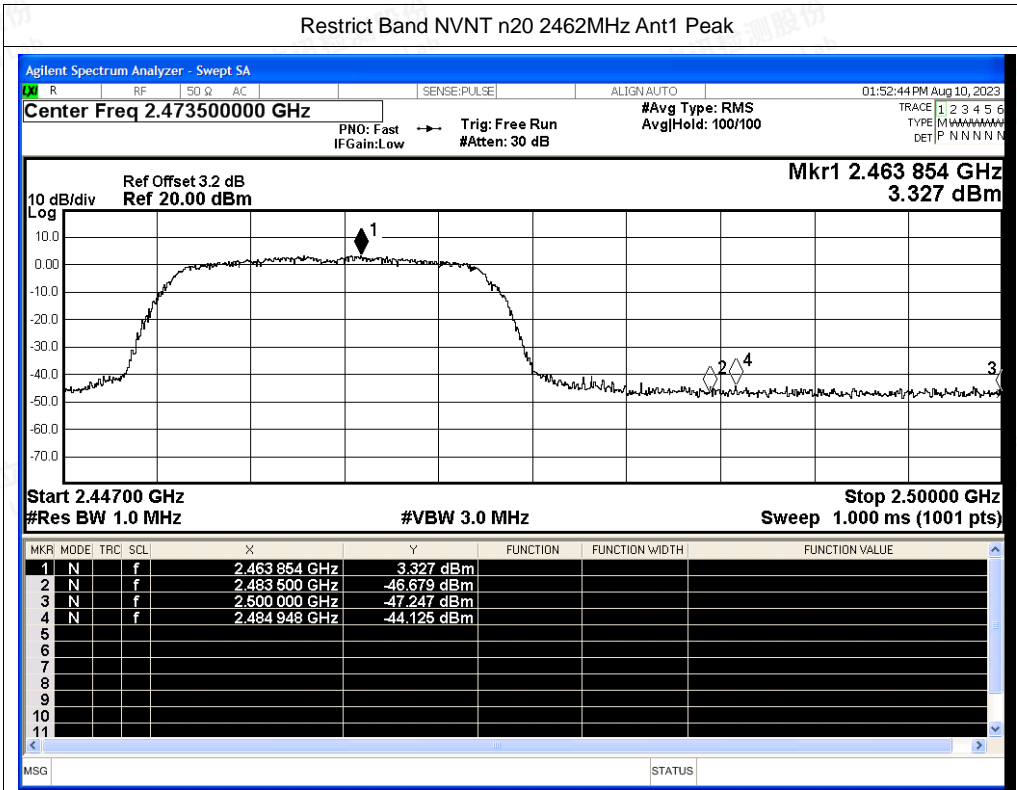


Restrict Band NVNT n20 2412MHz Ant1 Average

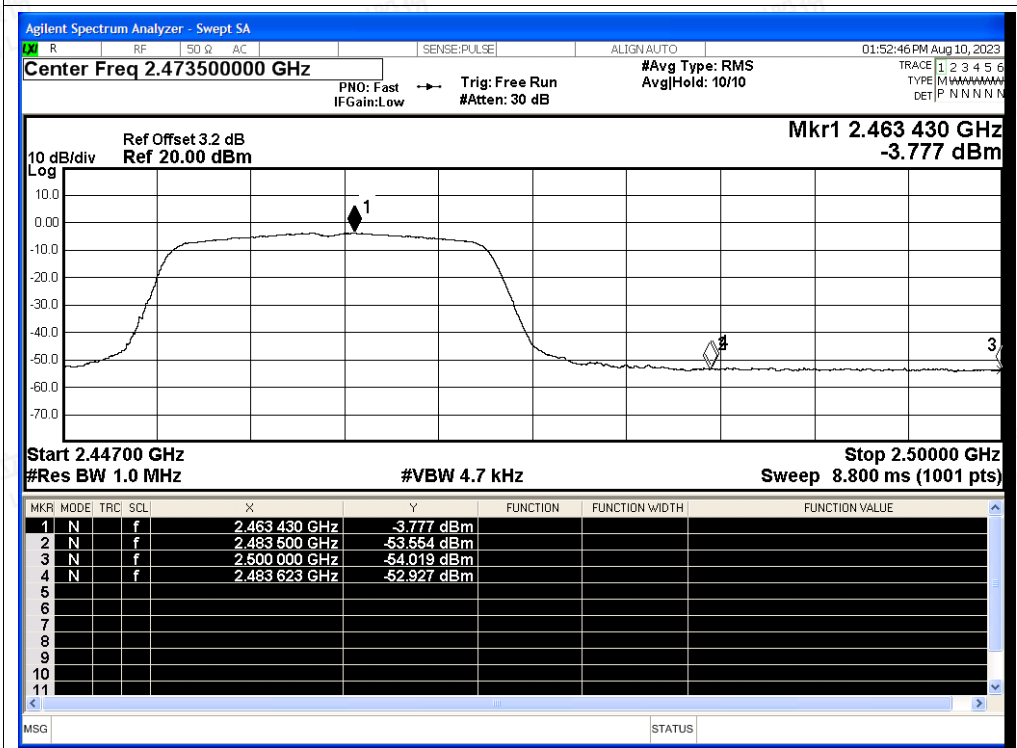




Restrict Band NVNT n20 2462MHz Ant1 Peak

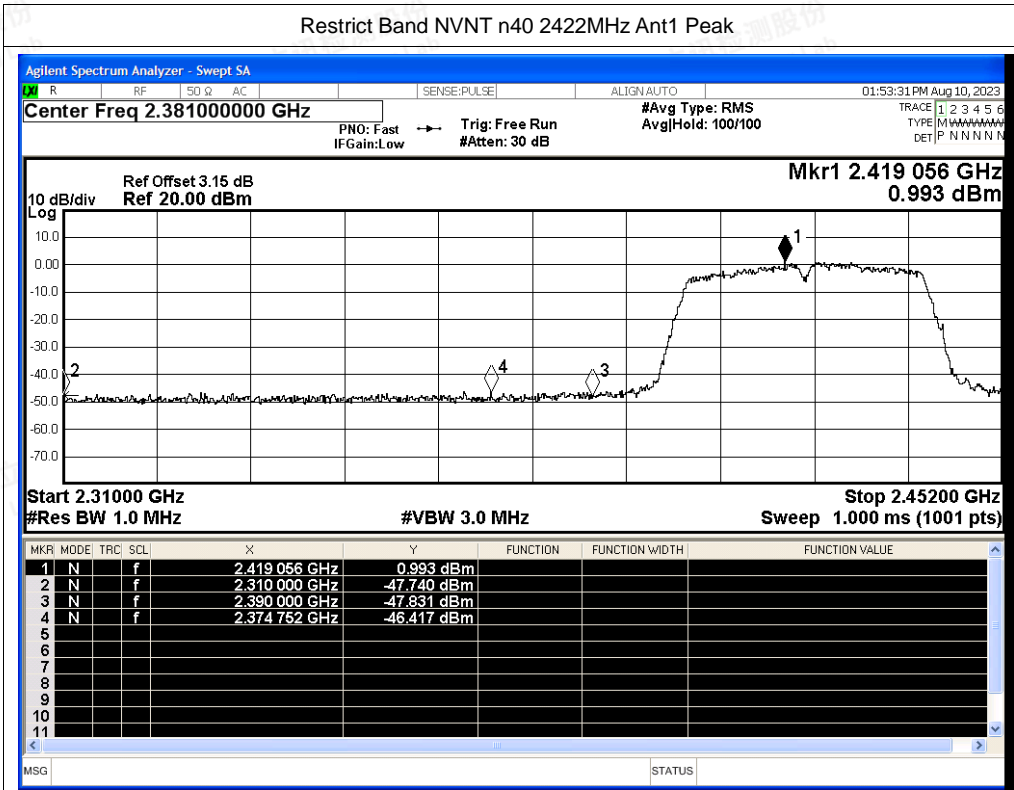


Restrict Band NVNT n20 2462MHz Ant1 Average

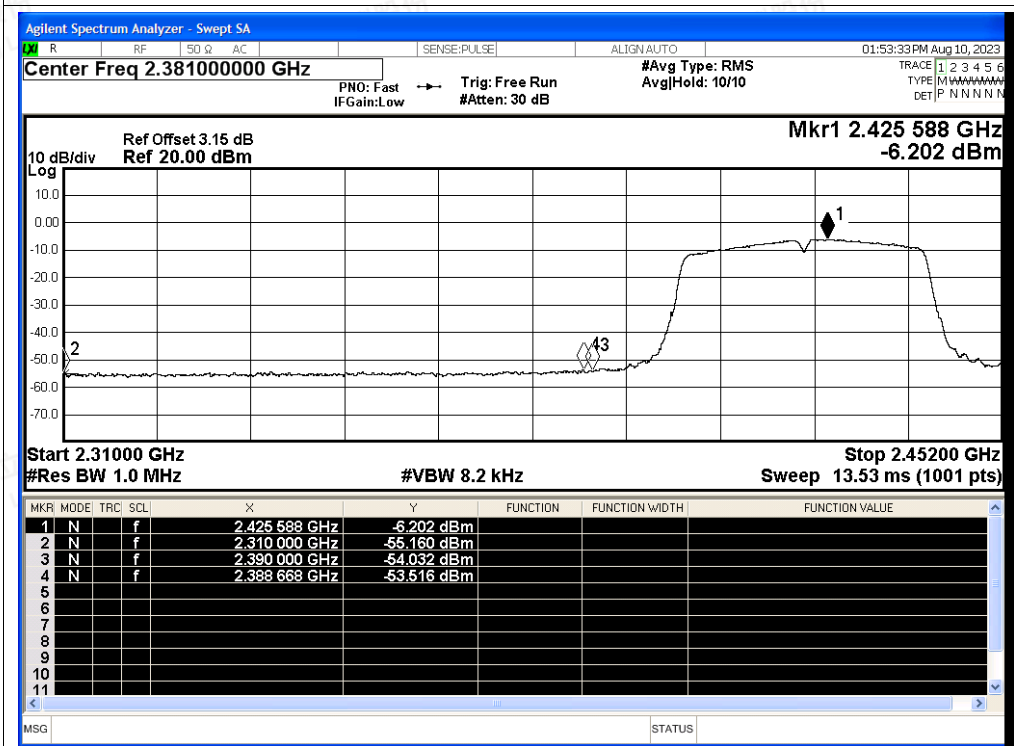




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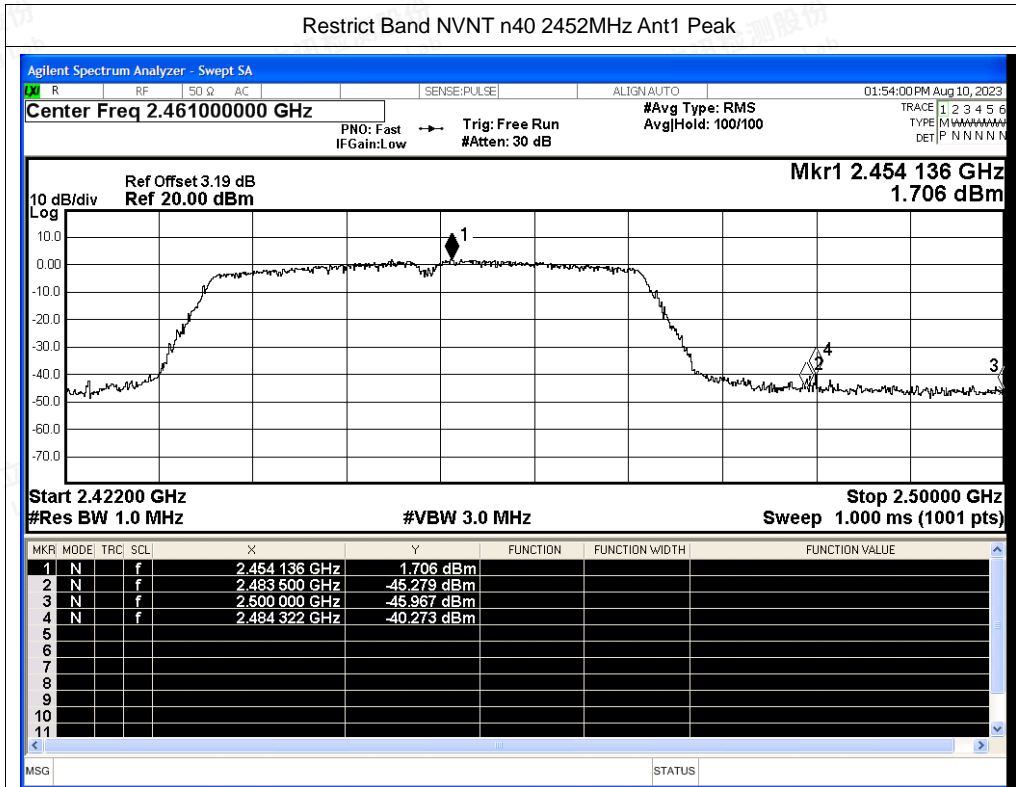


Restrict Band NVNT n40 2422MHz Ant1 Average





Restrict Band NVNT n40 2452MHz Ant1 Peak



Restrict Band NVNT n40 2452MHz Ant1 Average

