



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Aljia AH6W Camera

Test Model: AH6W

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li huan



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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	8.913	0.5	Pass
NVNT	b	2437	Ant1	8.613	0.5	Pass
NVNT	b	2462	Ant1	10.058	0.5	Pass
NVNT	g	2412	Ant1	16.355	0.5	Pass
NVNT	g	2437	Ant1	14.036	0.5	Pass
NVNT	g	2462	Ant1	16.372	0.5	Pass
NVNT	n20	2412	Ant1	16.923	0.5	Pass
NVNT	n20	2437	Ant1	17.639	0.5	Pass
NVNT	n20	2462	Ant1	17.532	0.5	Pass



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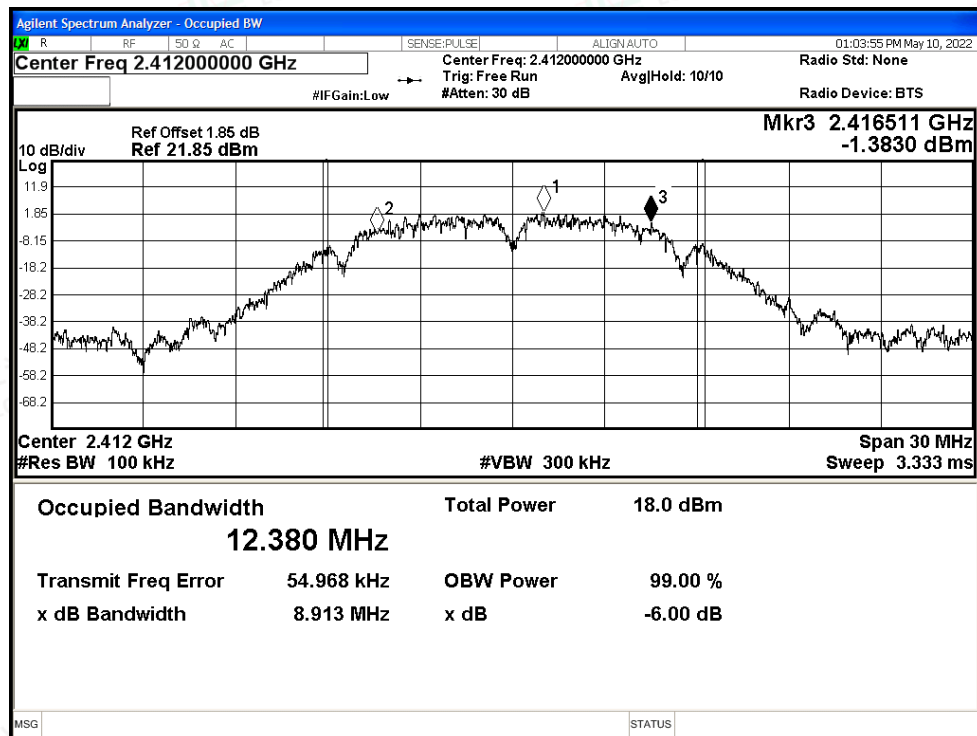
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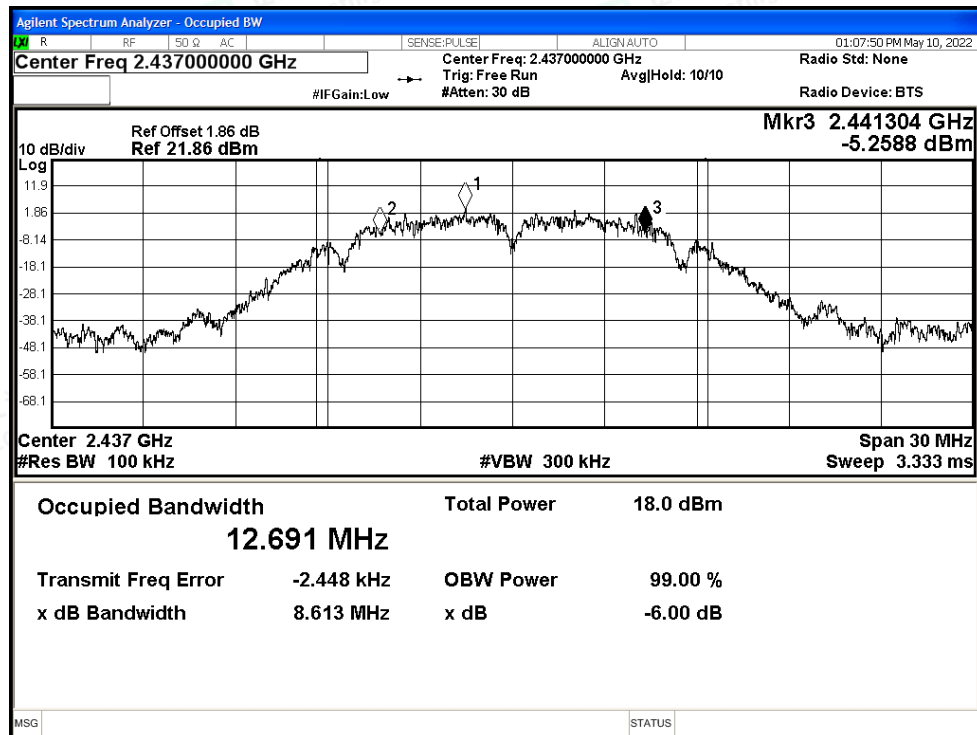


Test Graphs

6dB Bandwidth NVNT b 2412MHz Ant1



6dB Bandwidth NVNT b 2437MHz Ant1



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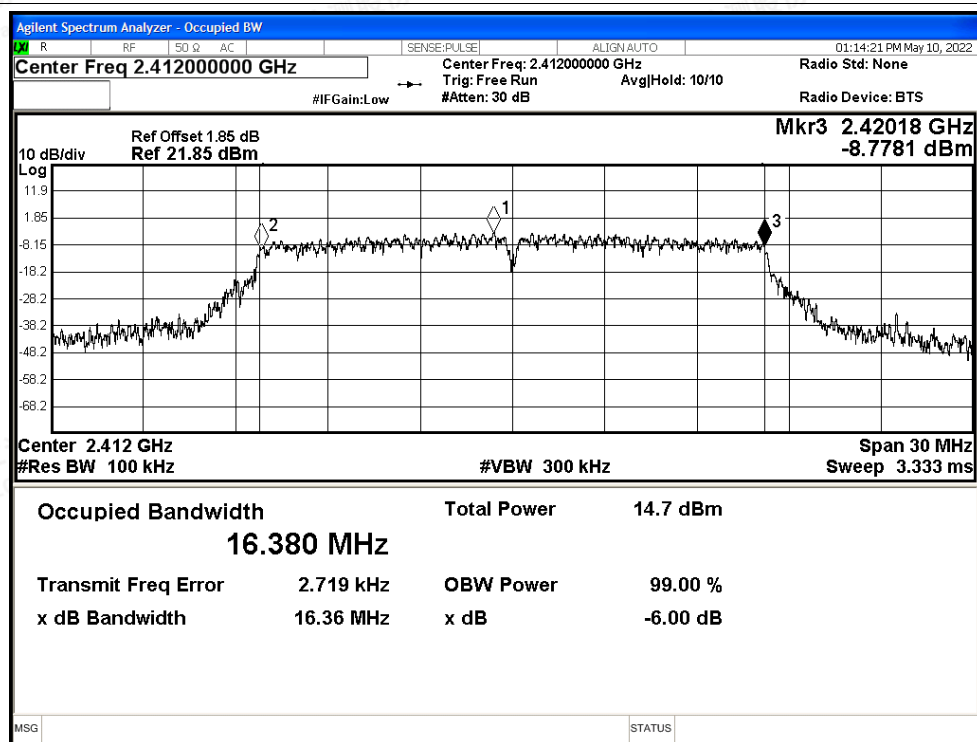
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6dB Bandwidth NVNT b 2462MHz Ant1



6dB Bandwidth NVNT g 2412MHz Ant1



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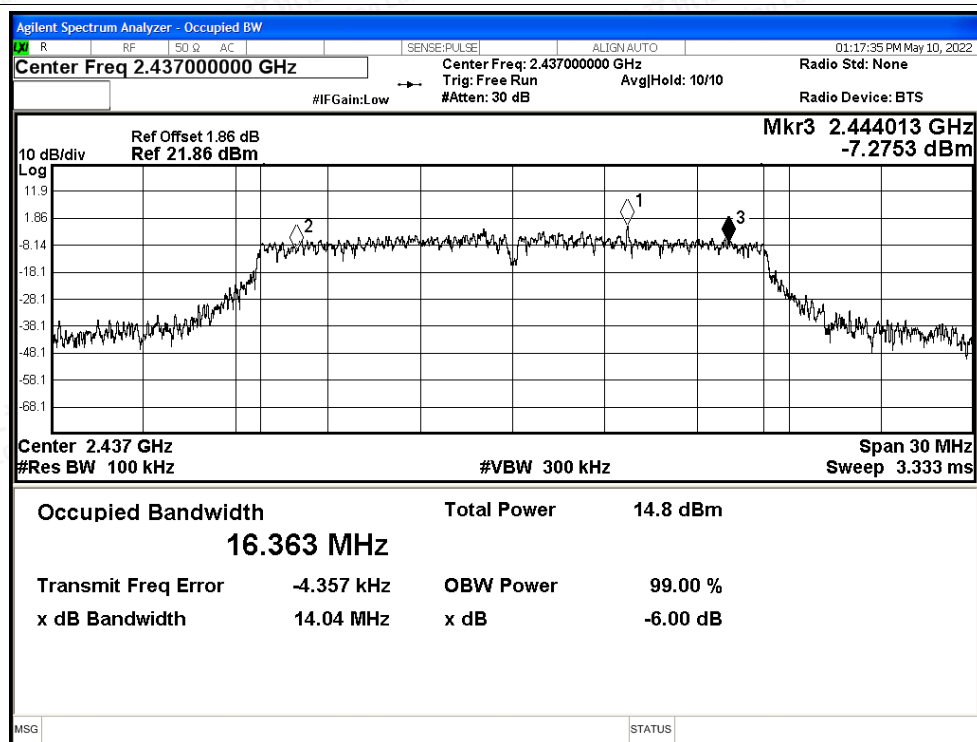
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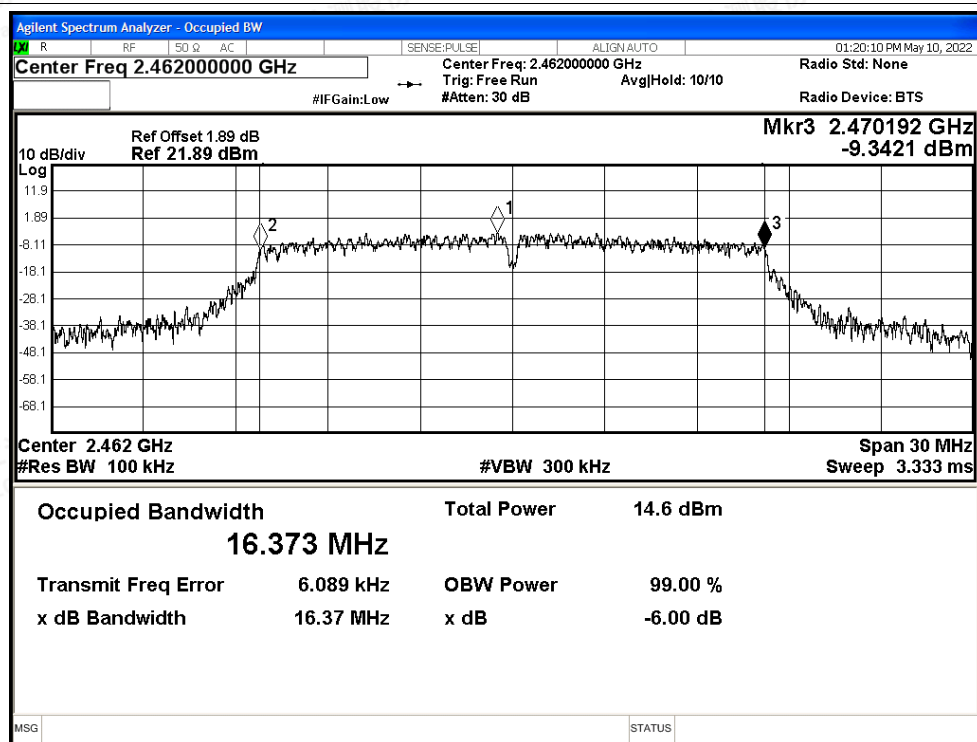
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6dB Bandwidth NVNT g 2437MHz Ant1



6dB Bandwidth NVNT g 2462MHz Ant1



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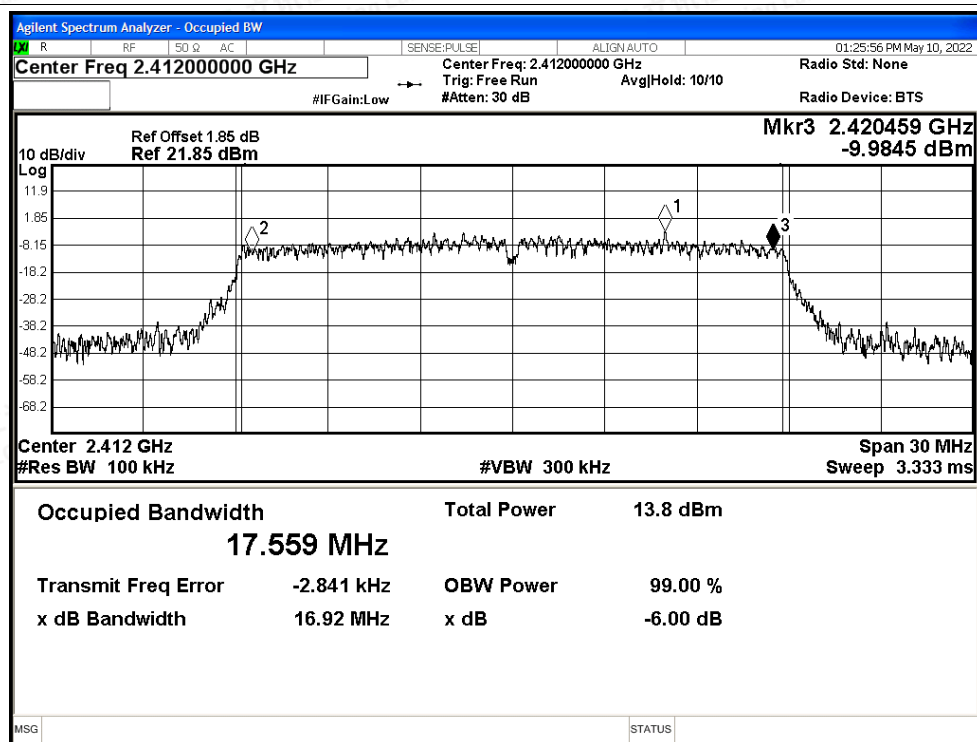
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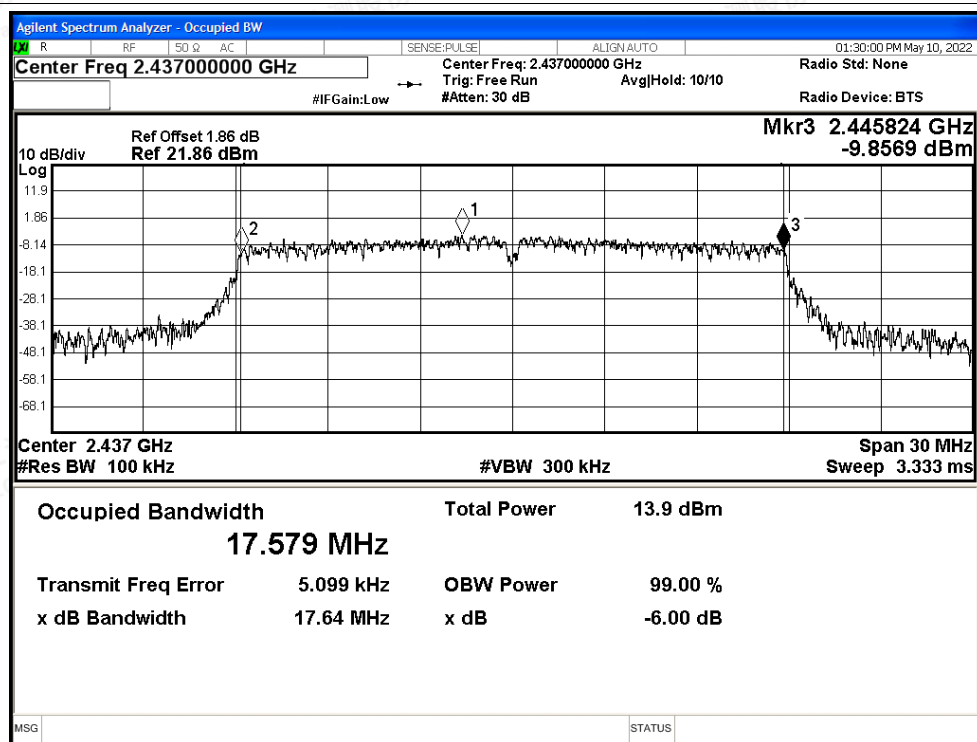
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6dB Bandwidth NVNT n20 2412MHz Ant1



6dB Bandwidth NVNT n20 2437MHz Ant1

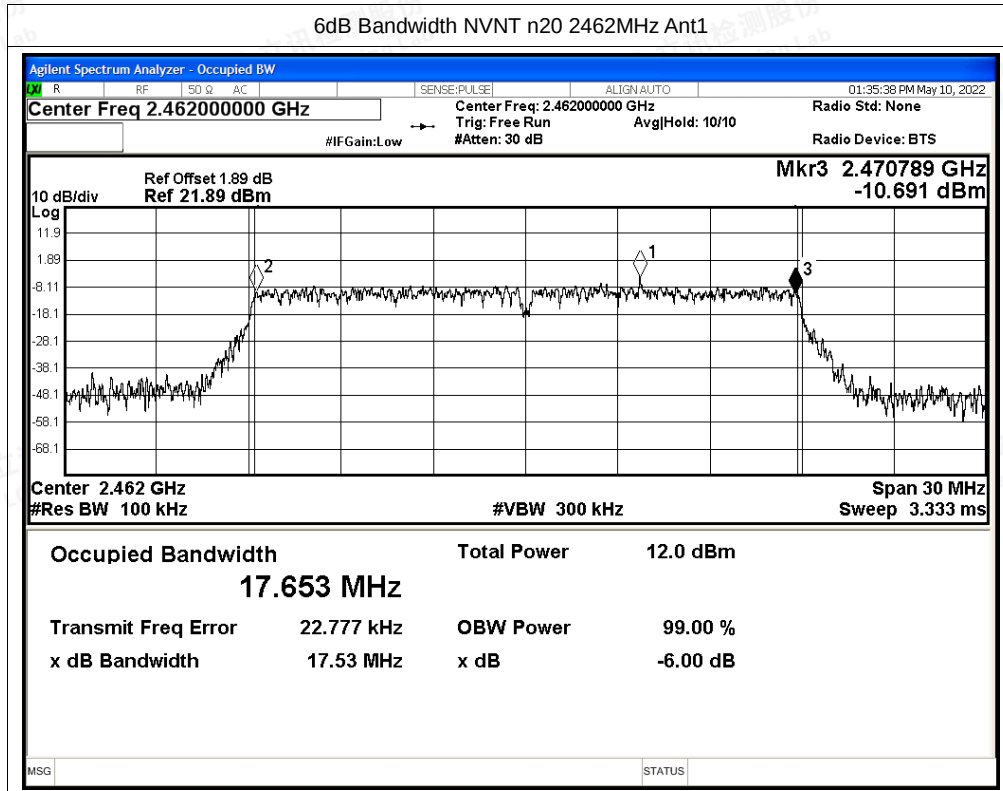


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A.2 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	b	2412	12.541
NVNT	b	2437	12.554
NVNT	b	2462	12.76
NVNT	g	2412	16.416
NVNT	g	2437	16.396
NVNT	g	2462	16.424
NVNT	n20	2412	17.564
NVNT	n20	2437	17.615
NVNT	n20	2462	17.662



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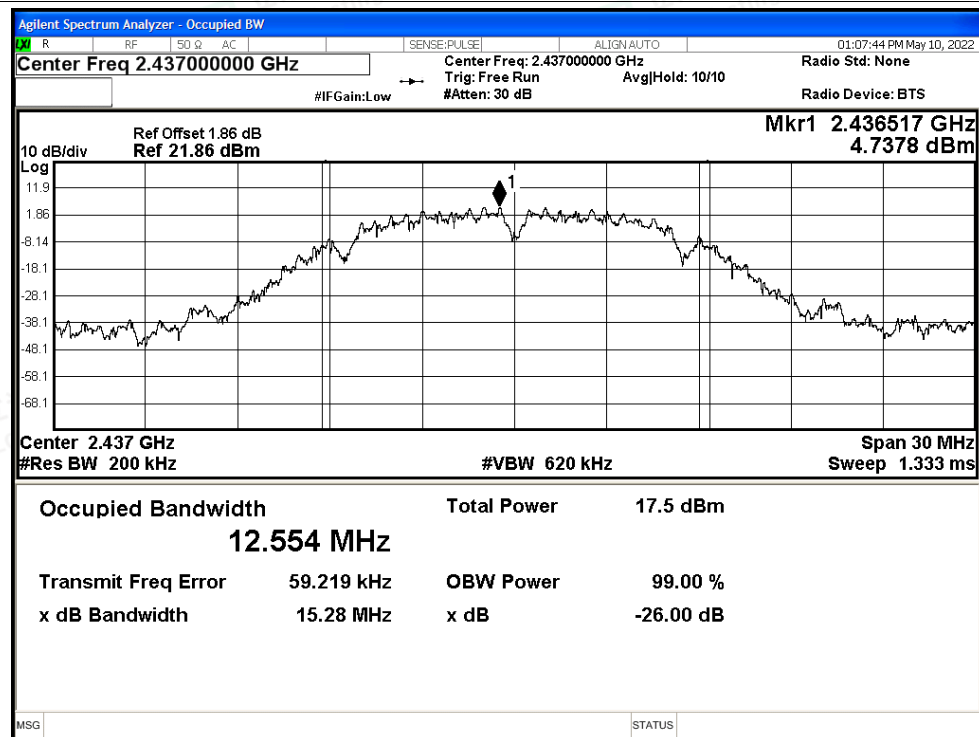


Test Graphs

OBW NVNT b 2412MHz Ant1



OBW NVNT b 2437MHz Ant1



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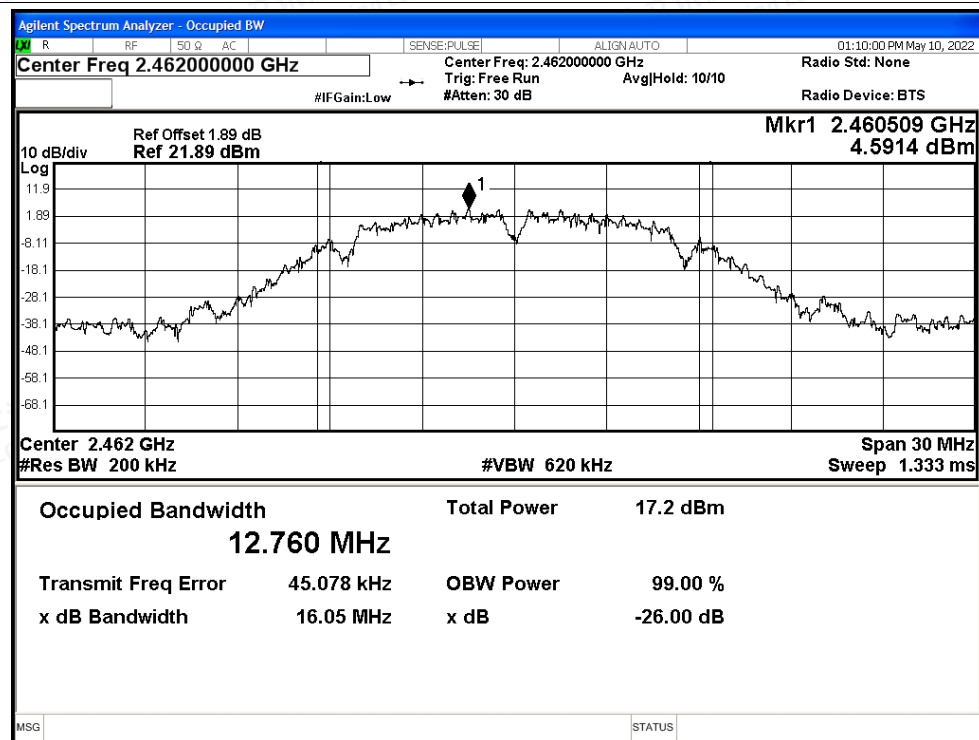
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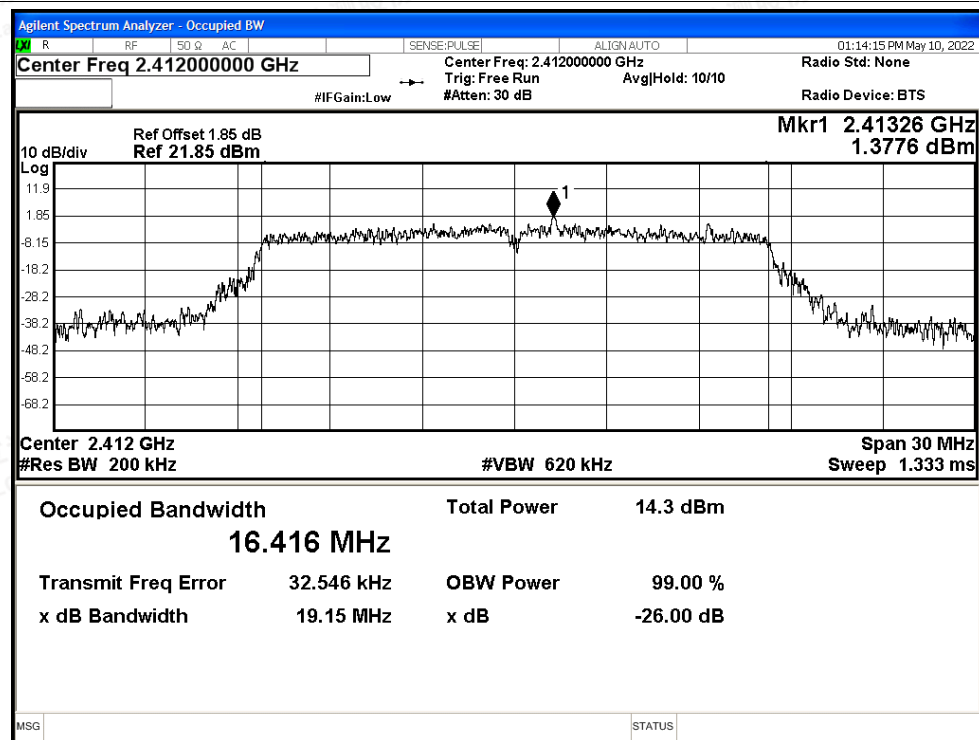
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OBW NVNT b 2462MHz Ant1



OBW NVNT g 2412MHz Ant1



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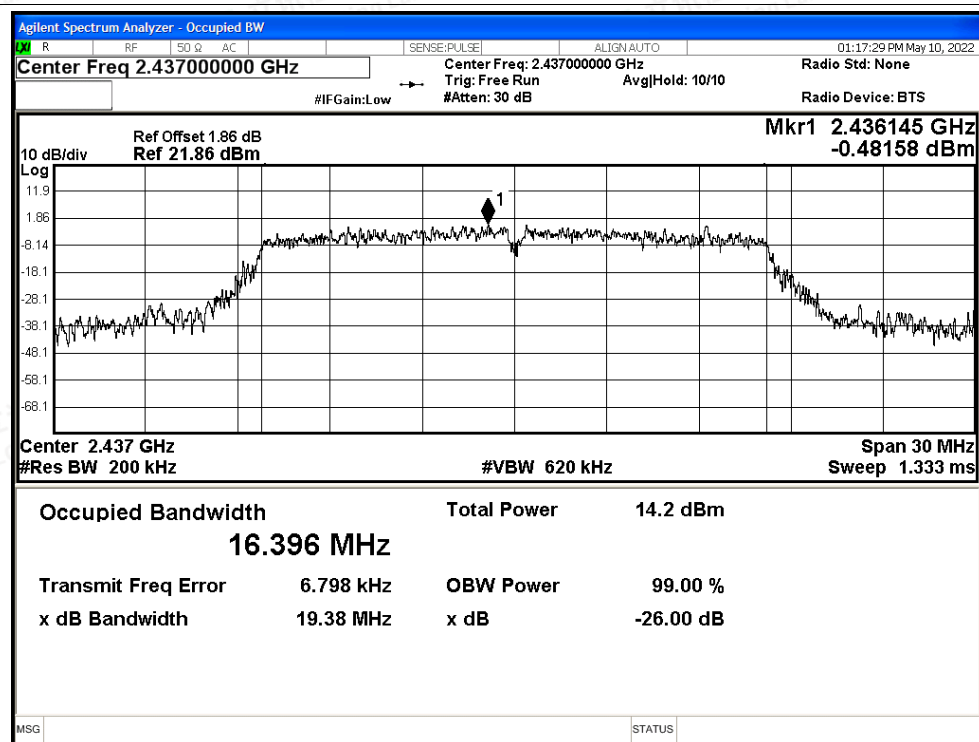
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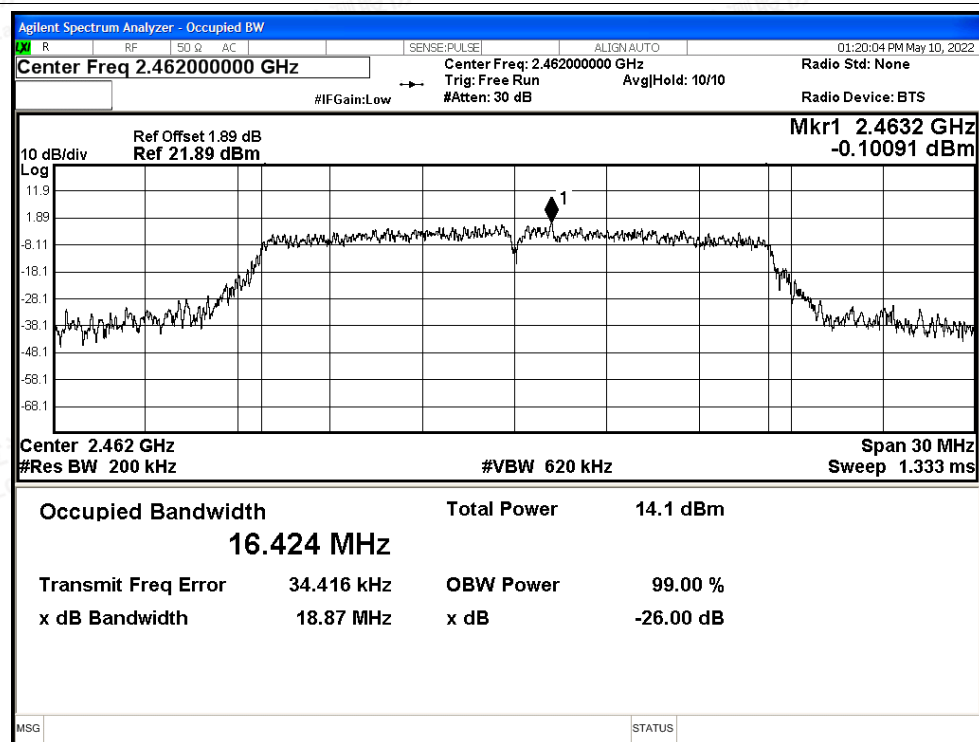
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OBW NVNT g 2437MHz Ant1



OBW NVNT g 2462MHz Ant1



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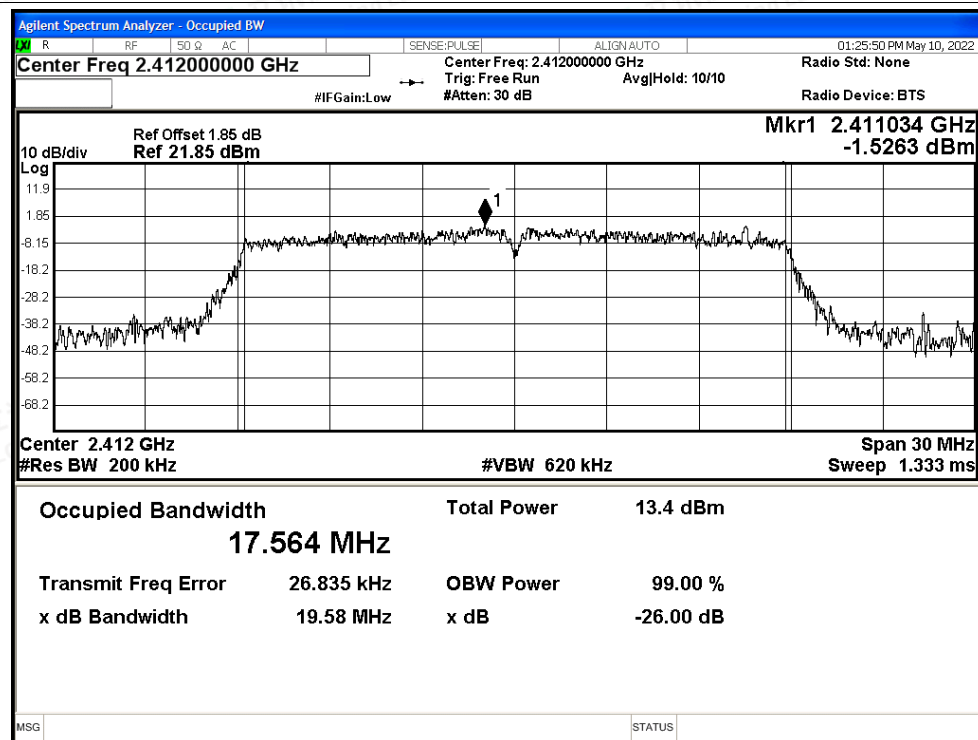
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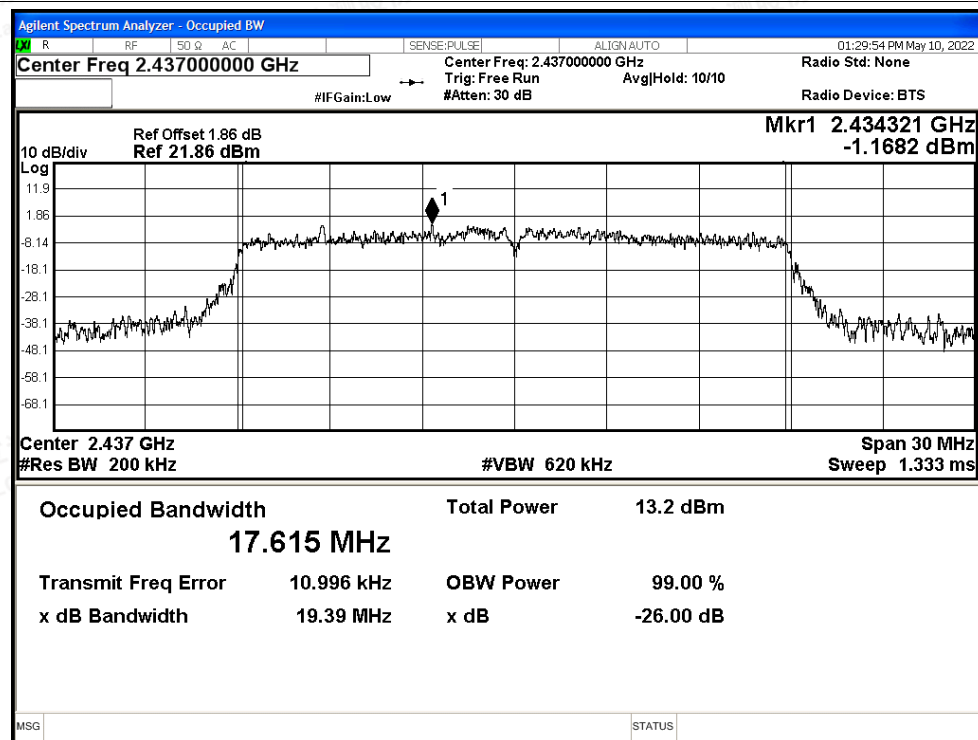
Scan code to check authenticity



OBW NVNT n20 2412MHz Ant1



OBW NVNT n20 2437MHz Ant1

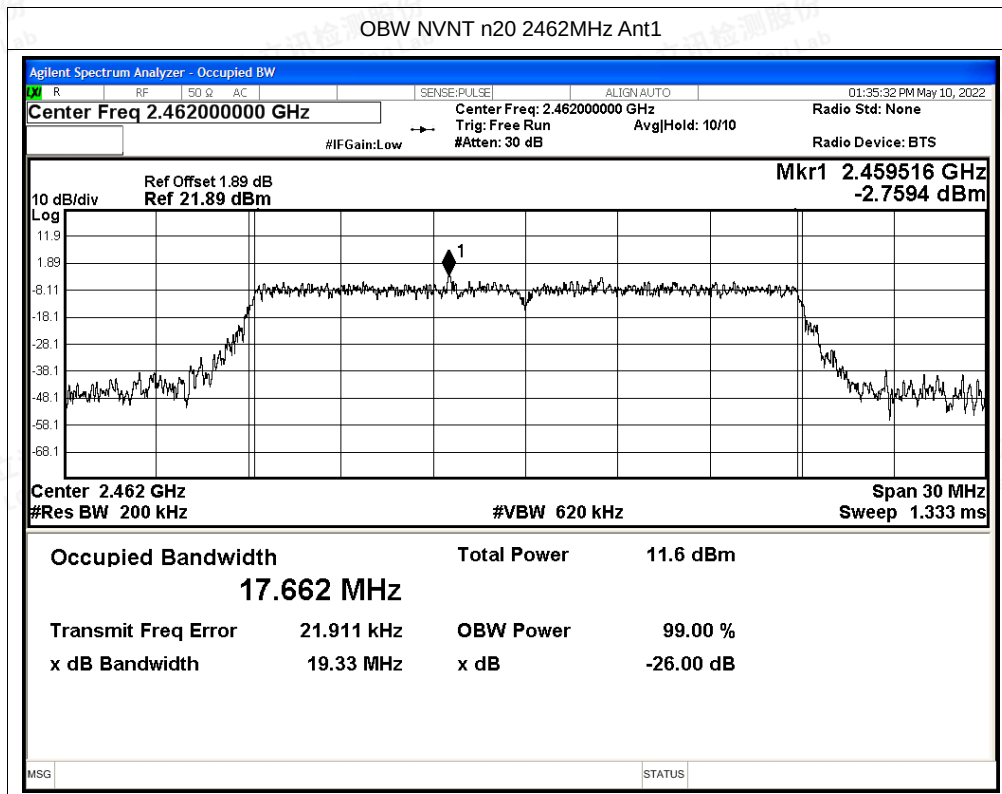


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A.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	14.47	30	Pass
NVNT	b	2437	Ant1	14.62	30	Pass
NVNT	b	2462	Ant1	14.6	30	Pass
NVNT	g	2412	Ant1	13.5	30	Pass
NVNT	g	2437	Ant1	13.44	30	Pass
NVNT	g	2462	Ant1	13.31	30	Pass
NVNT	n20	2412	Ant1	12.59	30	Pass
NVNT	n20	2437	Ant1	12.37	30	Pass
NVNT	n20	2462	Ant1	12.31	30	Pass





A.4 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-9.16	8	Pass
NVNT	b	2437	Ant1	-10.81	8	Pass
NVNT	b	2462	Ant1	-9.94	8	Pass
NVNT	g	2412	Ant1	-14.79	8	Pass
NVNT	g	2437	Ant1	-13.82	8	Pass
NVNT	g	2462	Ant1	-13.84	8	Pass
NVNT	n20	2412	Ant1	-15.53	8	Pass
NVNT	n20	2437	Ant1	-15.08	8	Pass
NVNT	n20	2462	Ant1	-19.29	8	Pass



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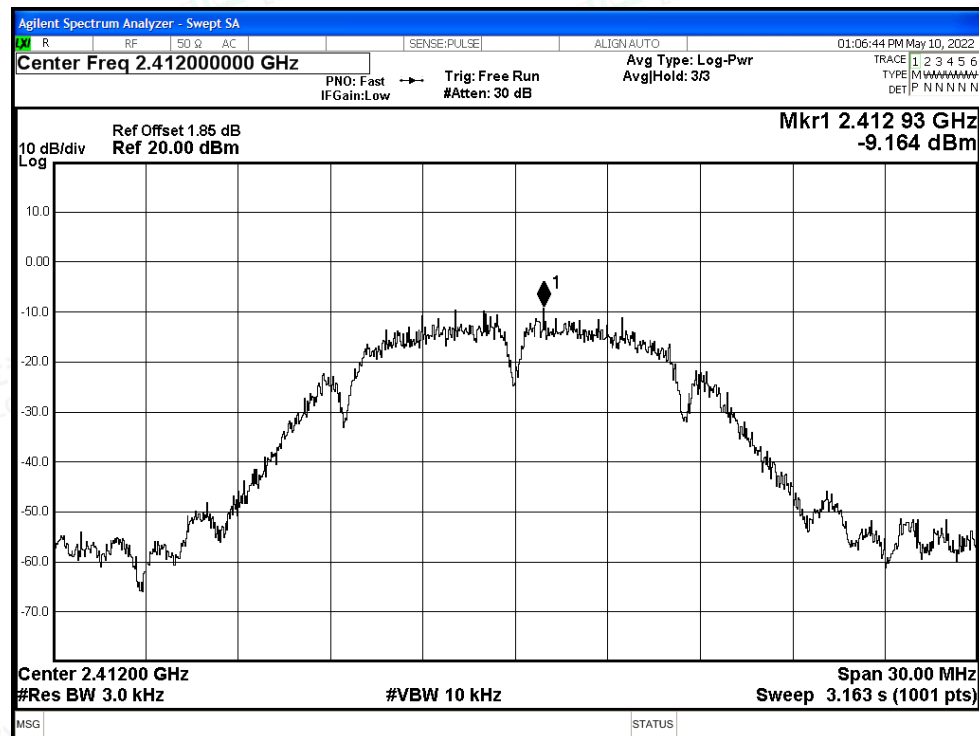
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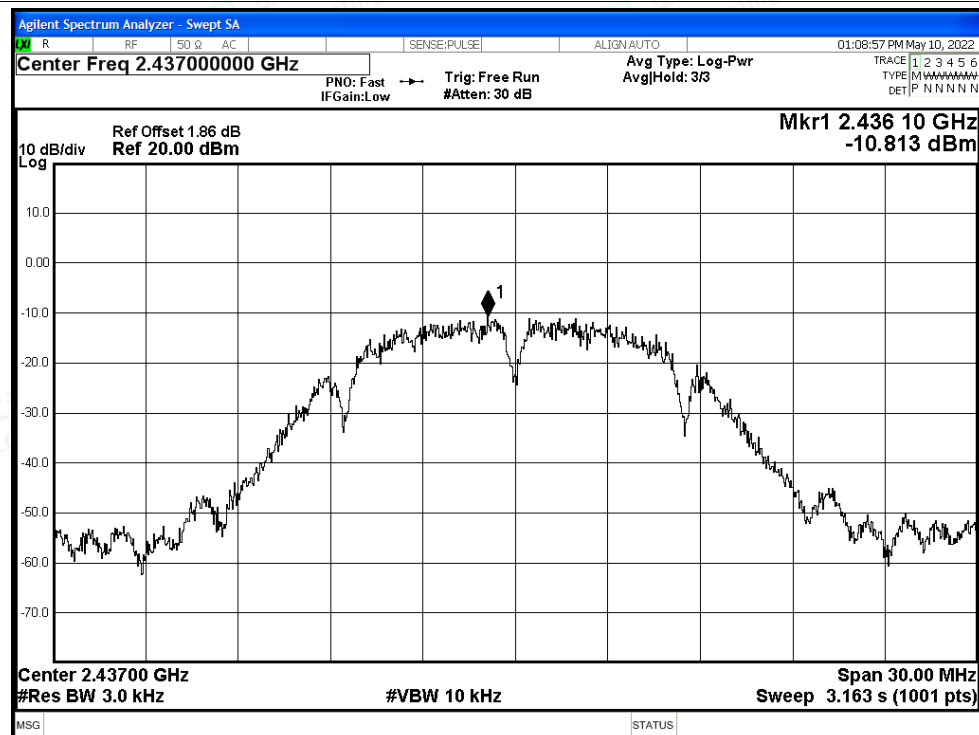


Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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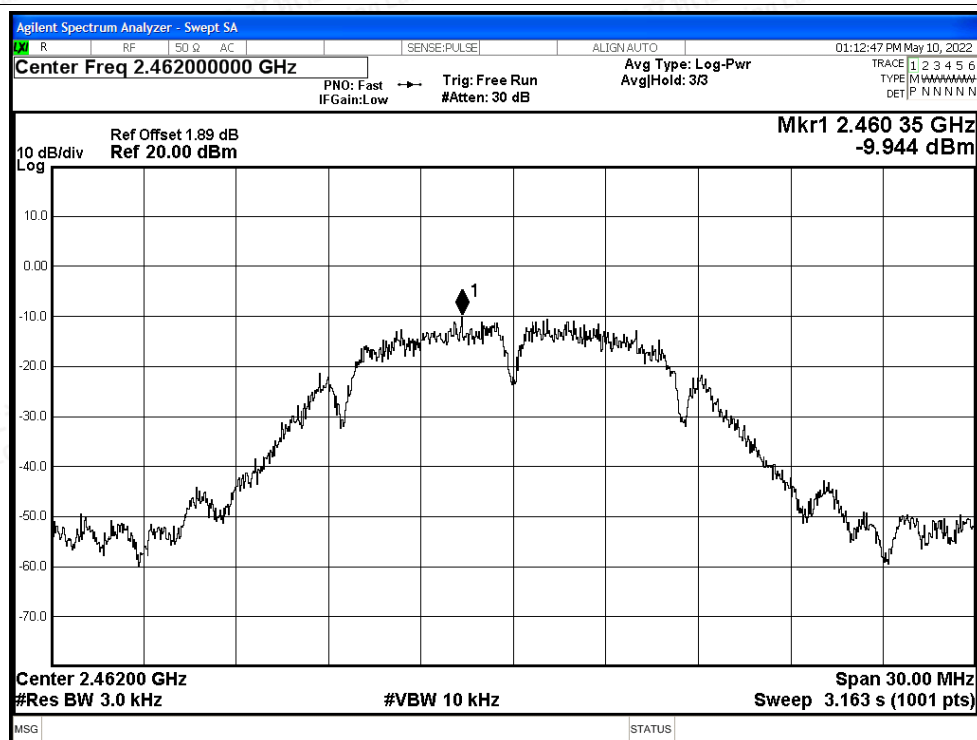
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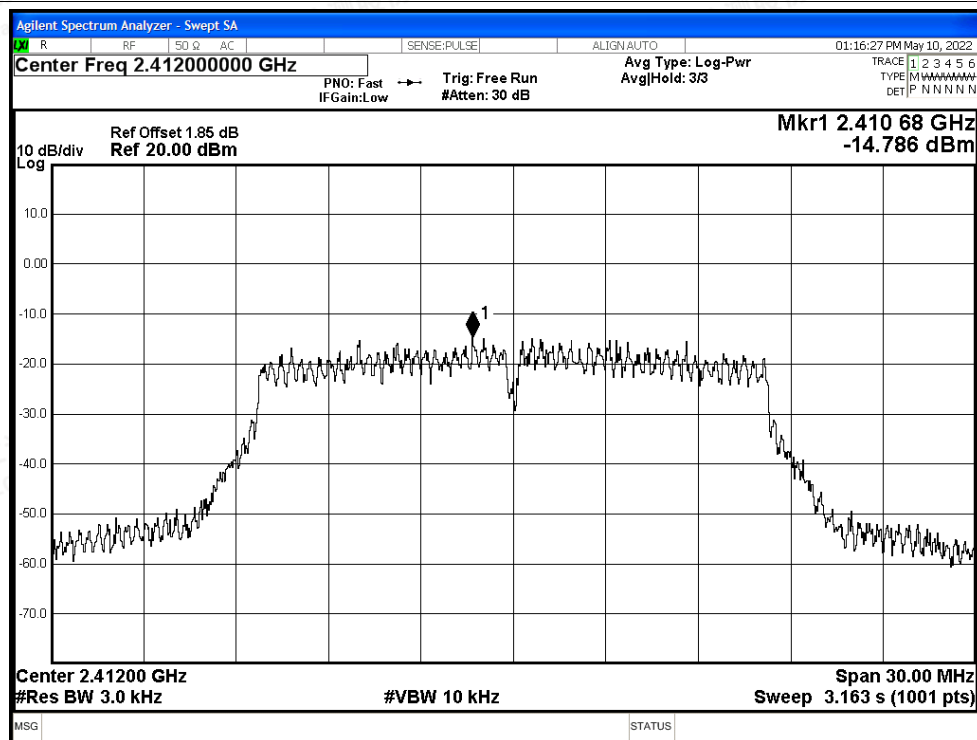
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



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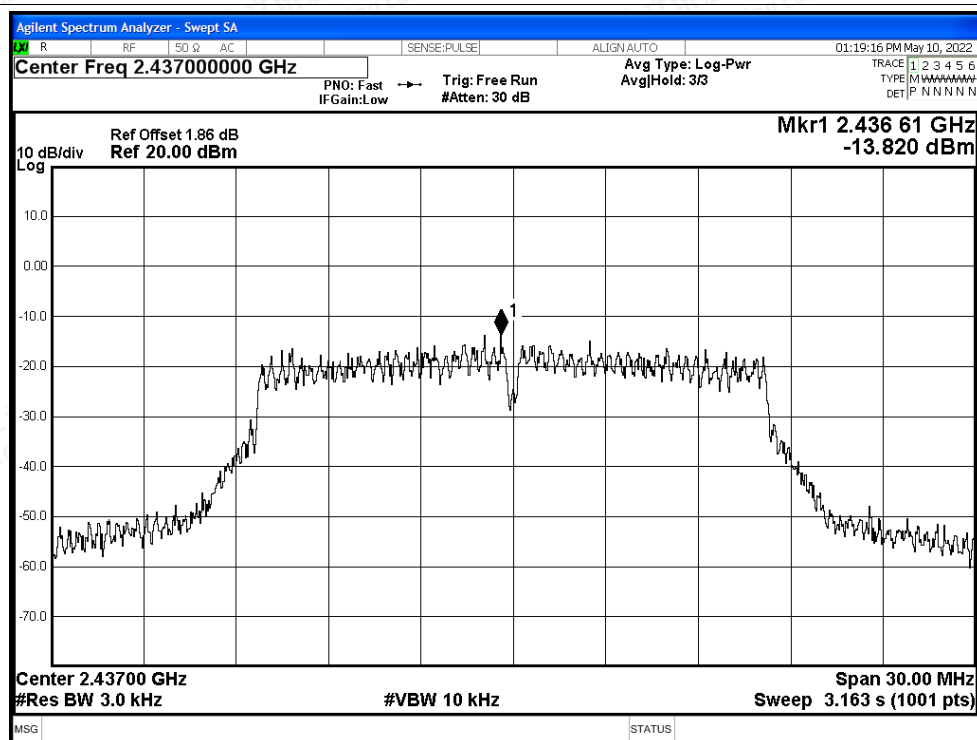
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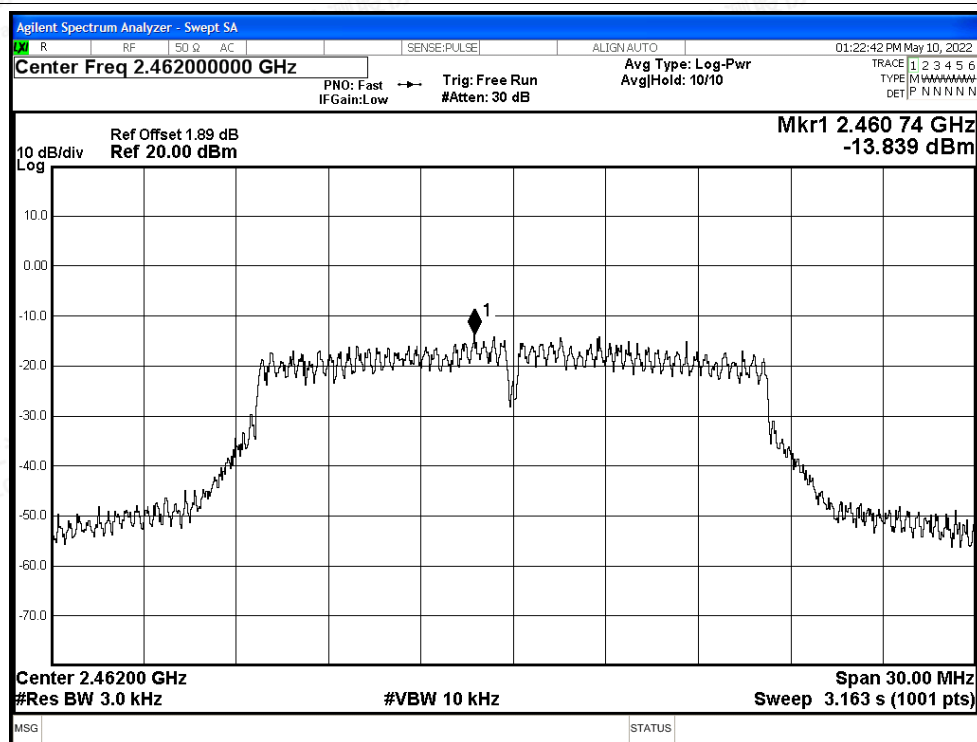
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

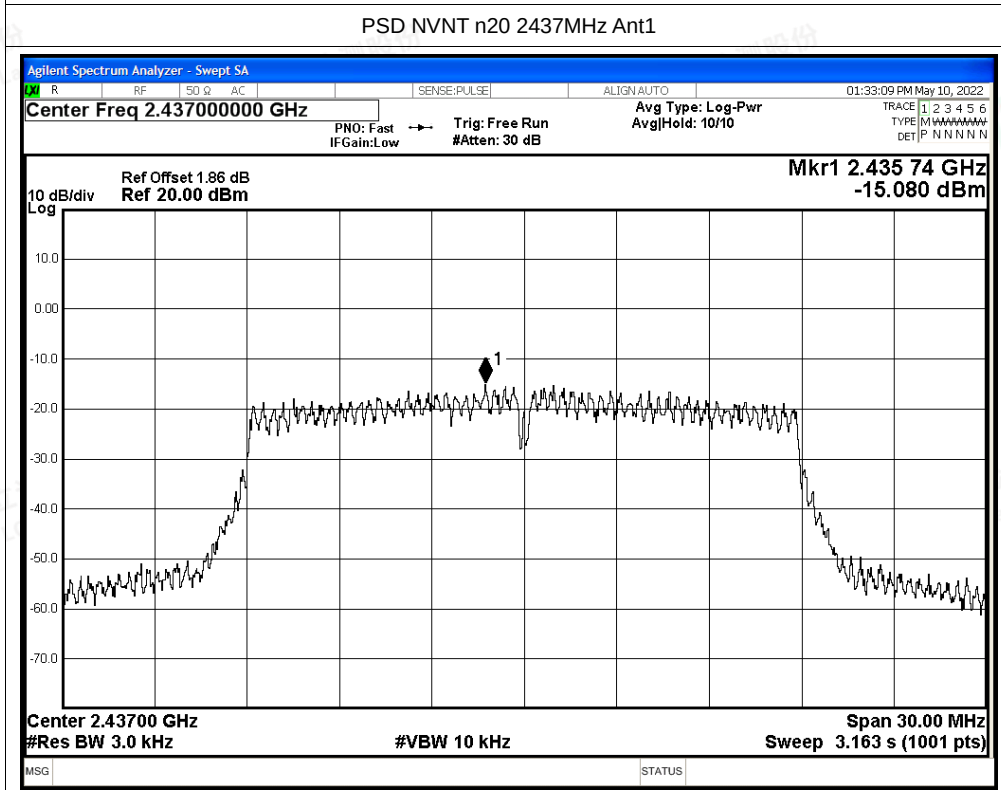
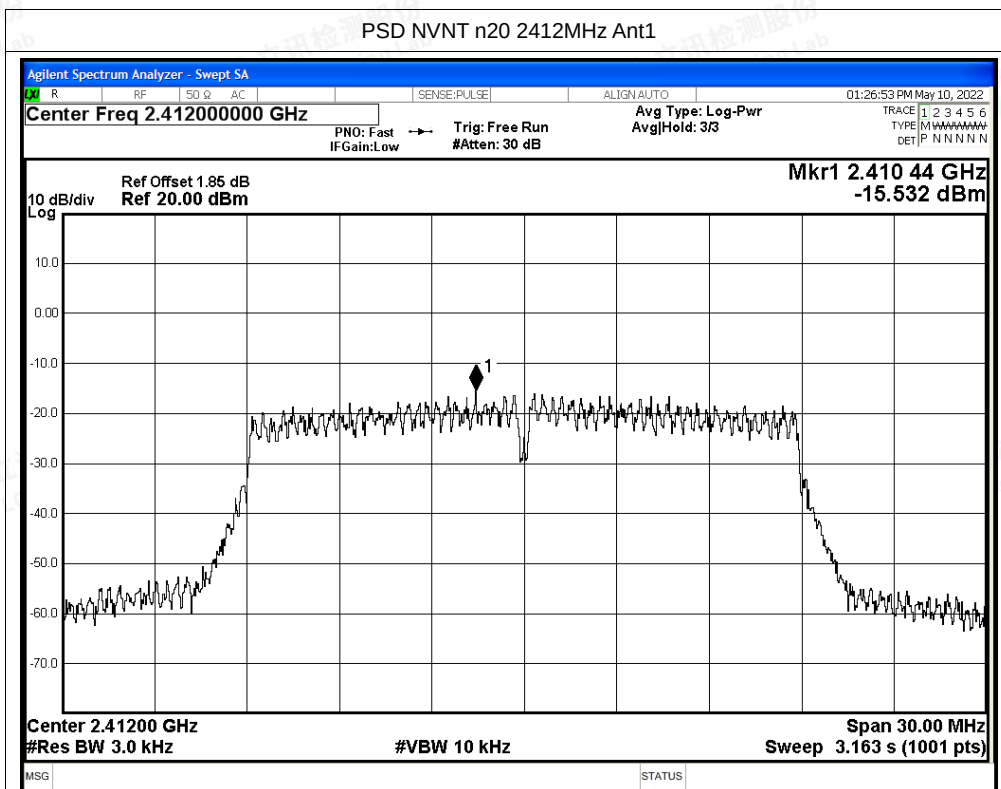


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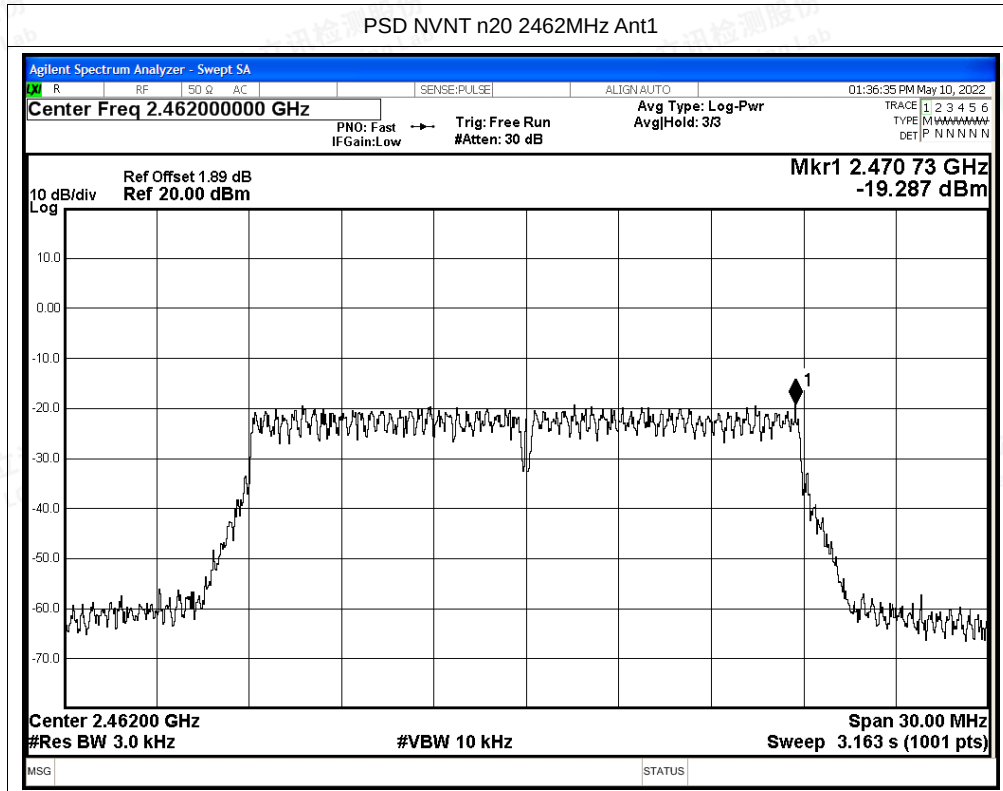


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A.5 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-42.87	-20	Pass
NVNT	b	2462	Ant1	-59.78	-20	Pass
NVNT	g	2412	Ant1	-36.23	-20	Pass
NVNT	g	2462	Ant1	-49.63	-20	Pass
NVNT	n20	2412	Ant1	-38.37	-20	Pass
NVNT	n20	2462	Ant1	-47.25	-20	Pass

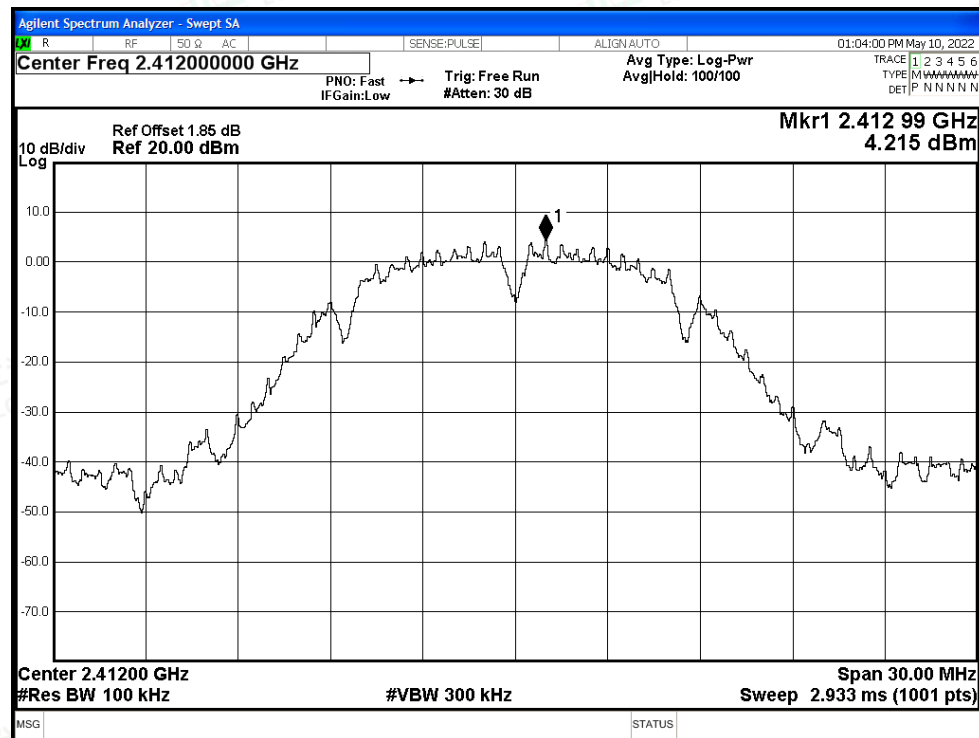


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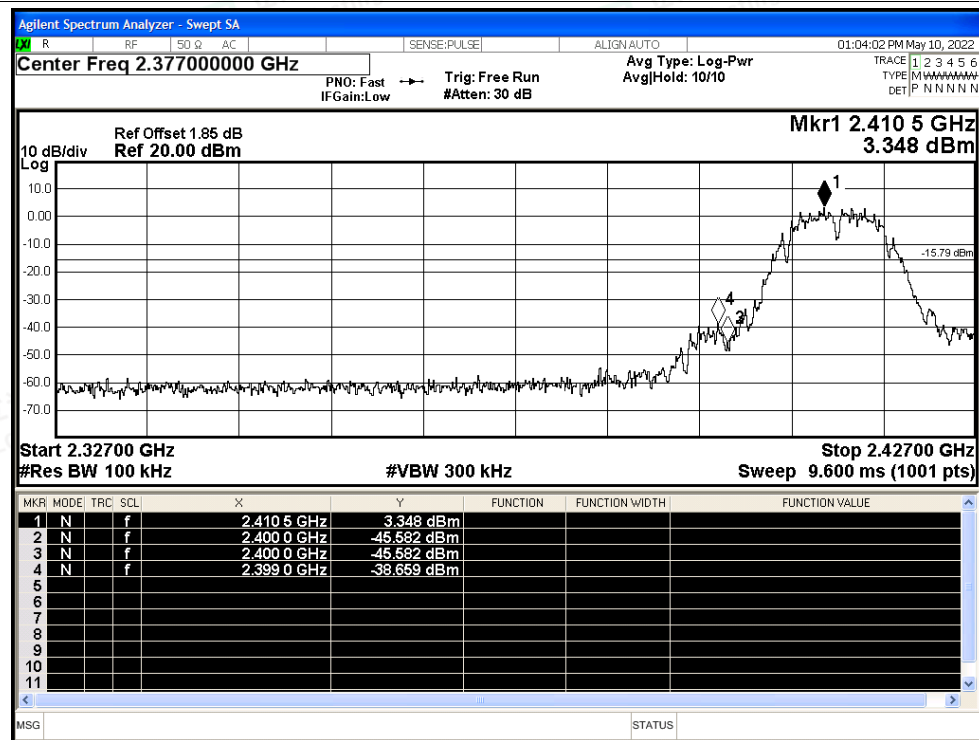


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



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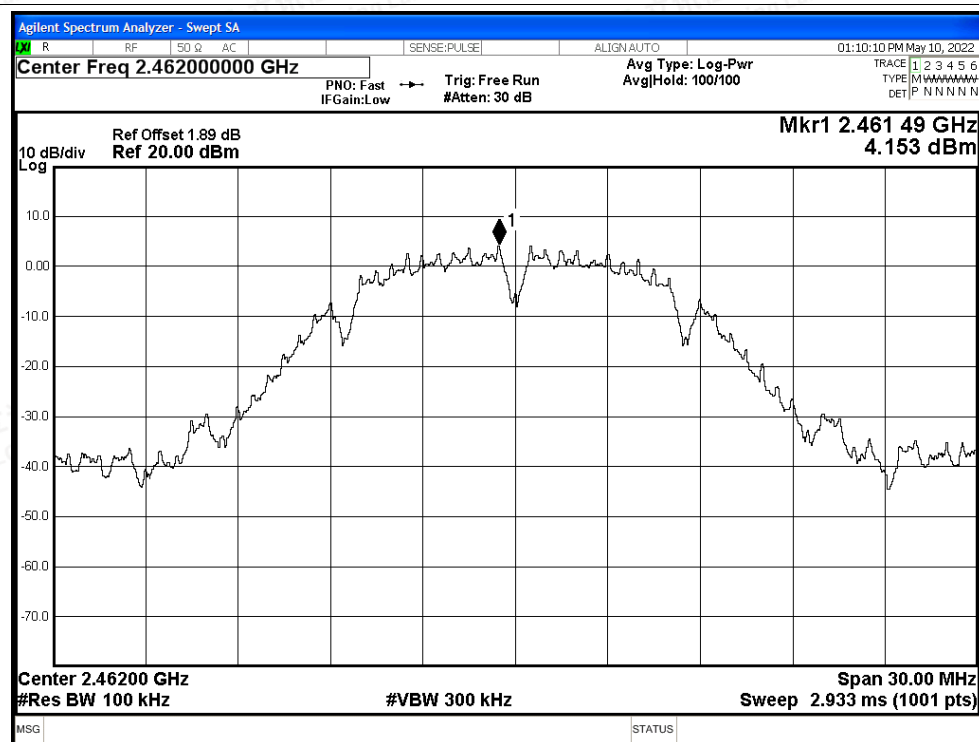
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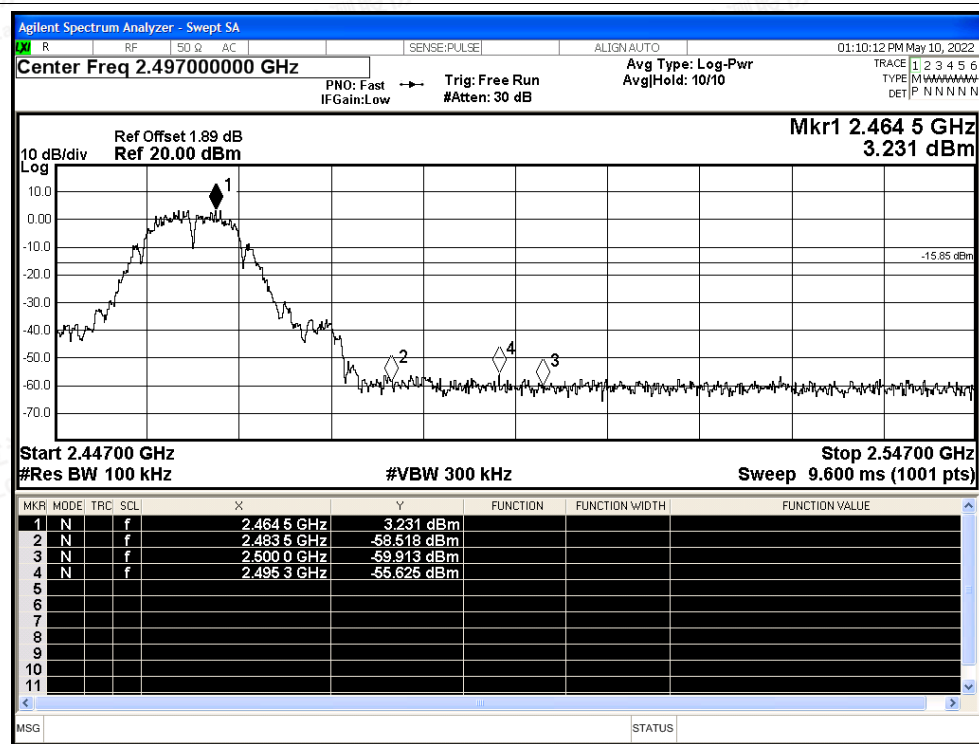
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Band Edge NVNT b 2462MHz Ant1 Emission



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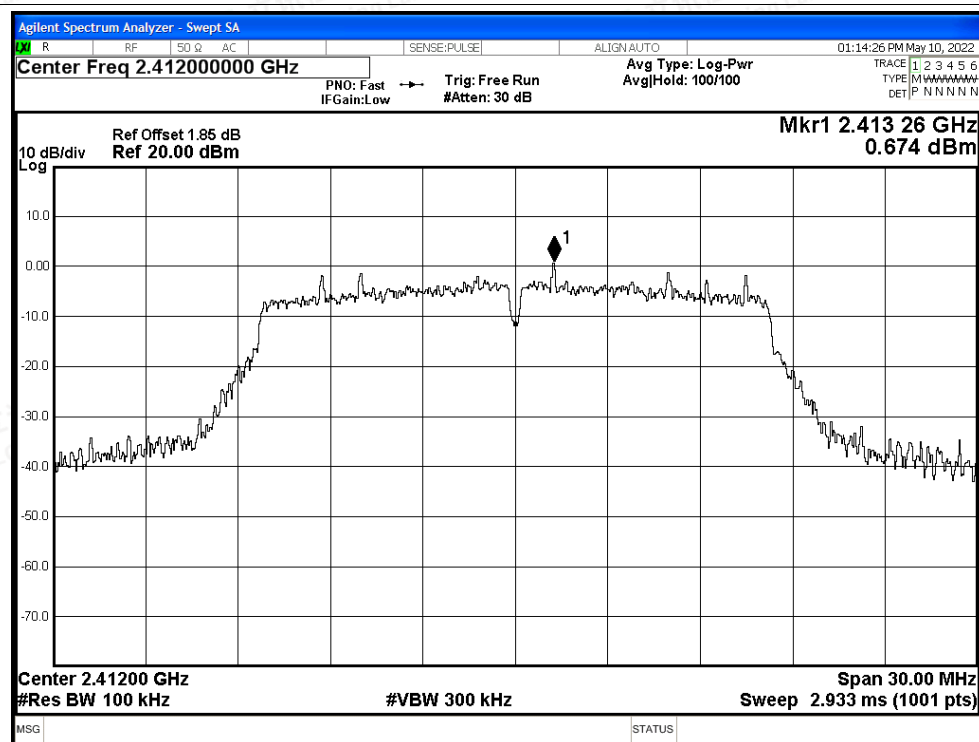
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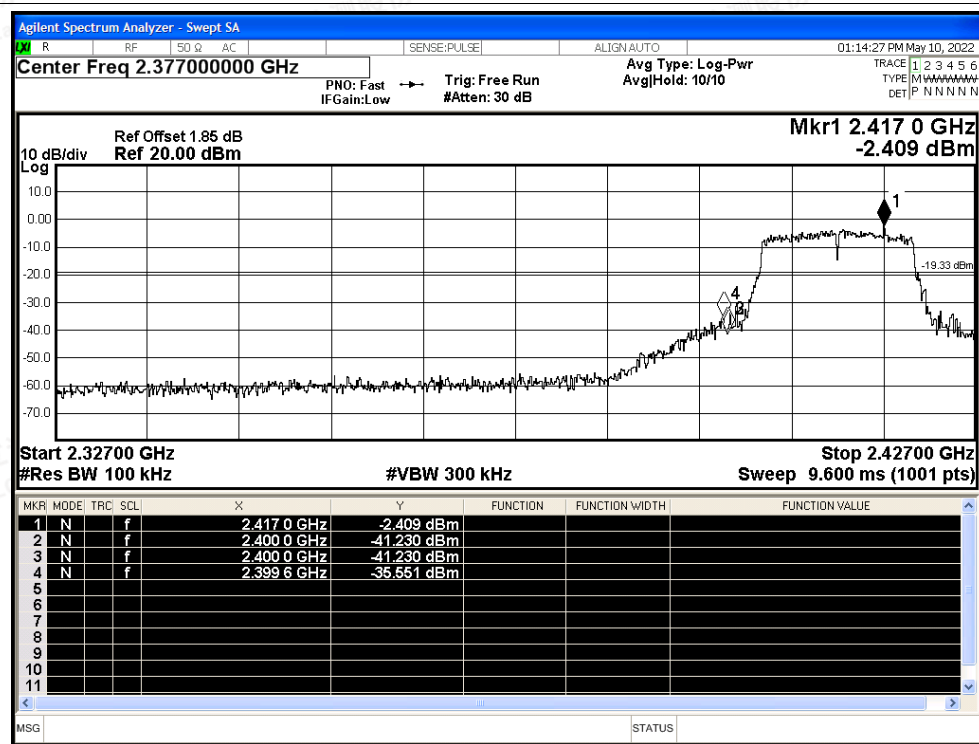
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Band Edge NVNT g 2412MHz Ant1 Ref



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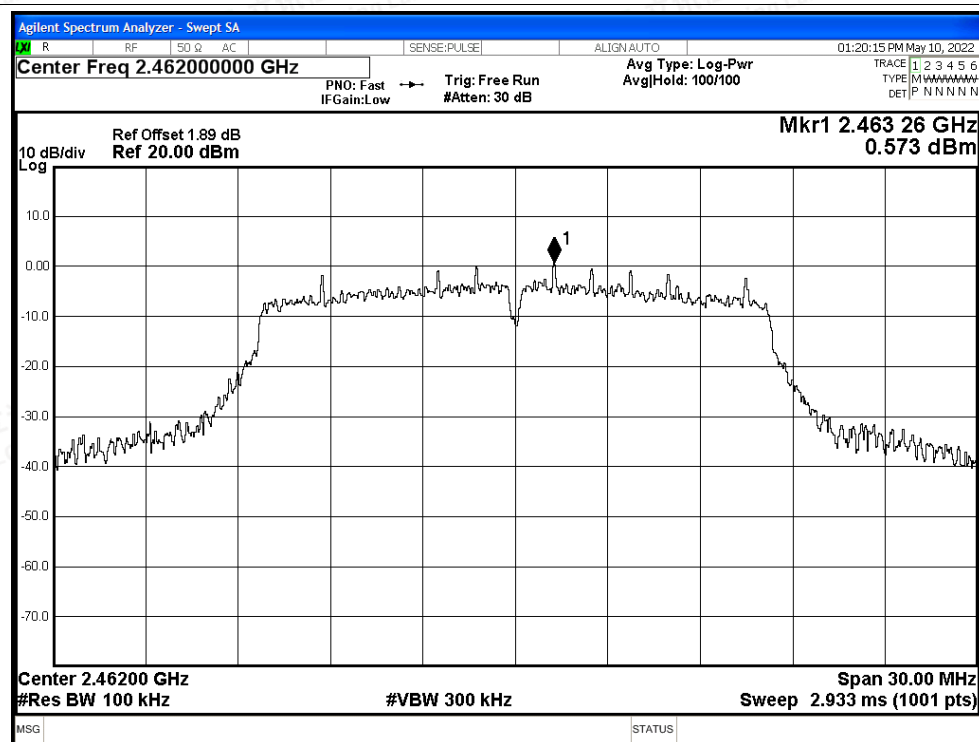
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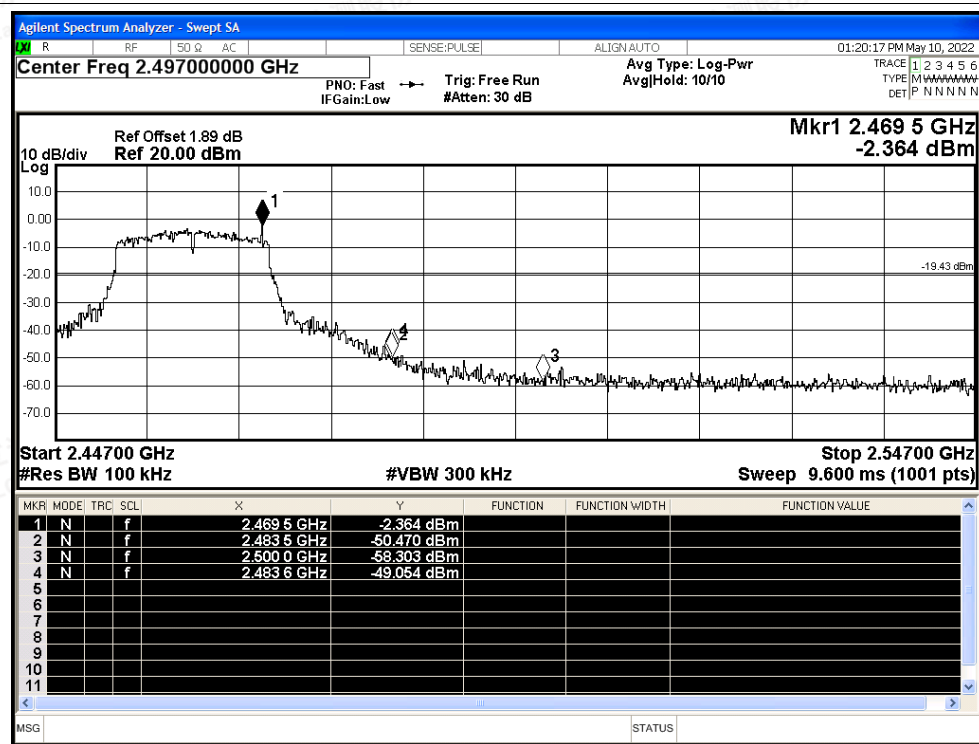
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Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



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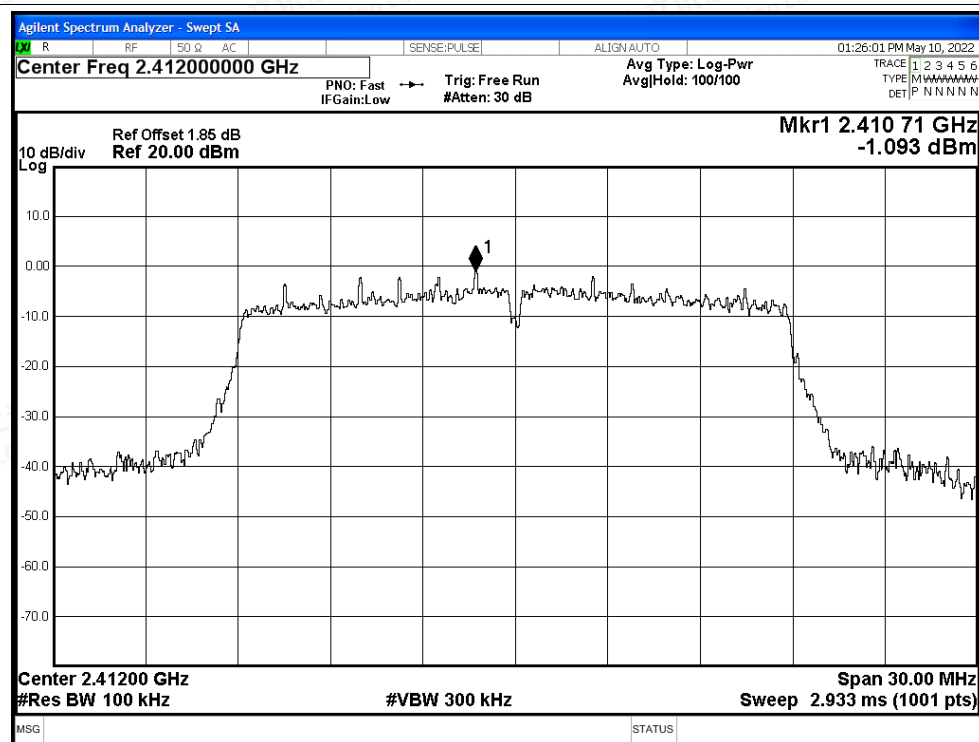
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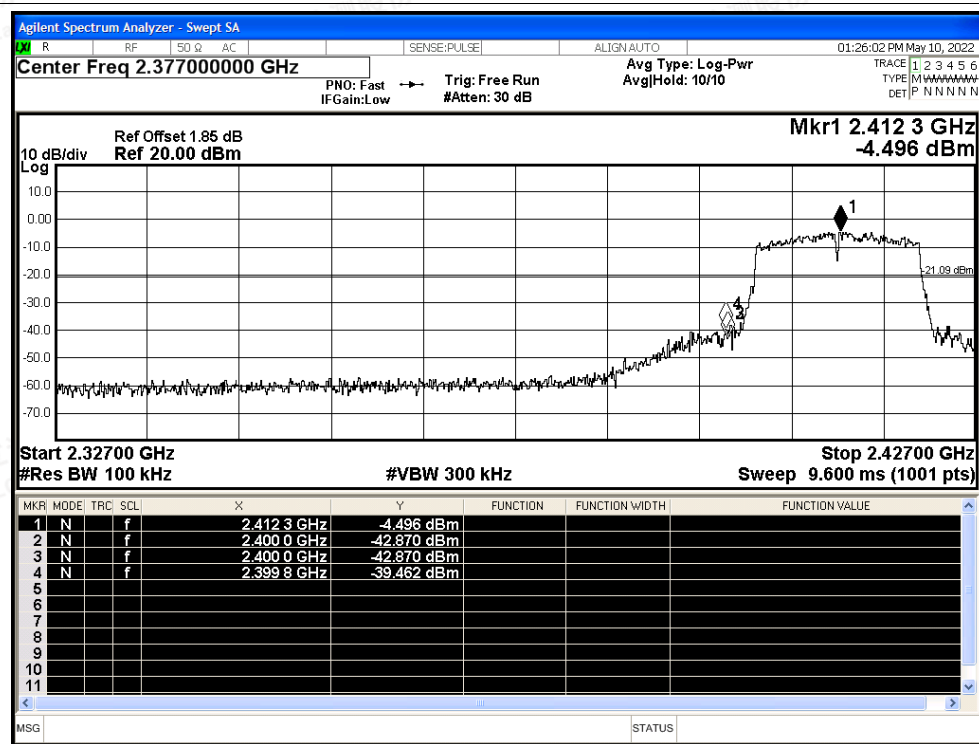
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Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



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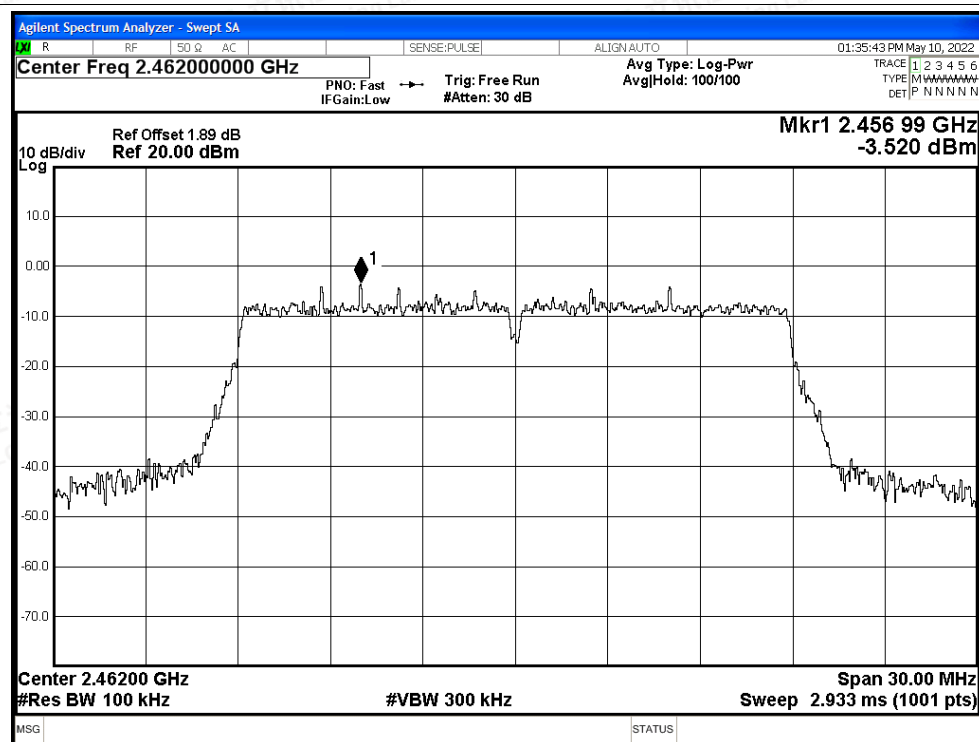
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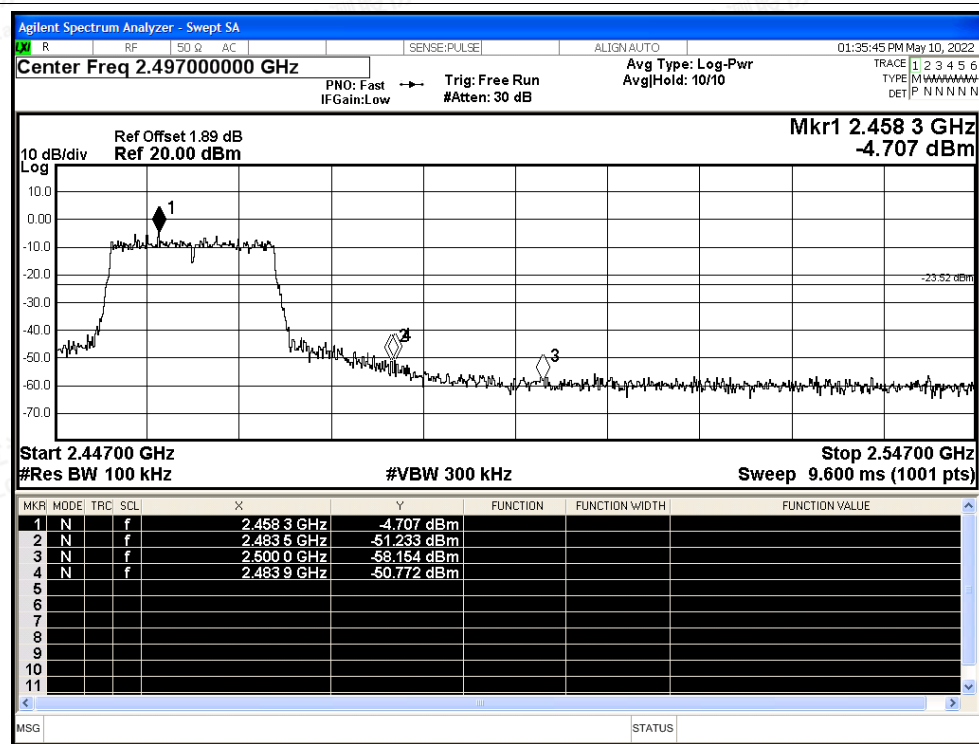
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Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission



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A.6 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.65	-20	Pass
NVNT	b	2437	Ant1	-50.54	-20	Pass
NVNT	b	2462	Ant1	-49.49	-20	Pass
NVNT	g	2412	Ant1	-45.46	-20	Pass
NVNT	g	2437	Ant1	-44.05	-20	Pass
NVNT	g	2462	Ant1	-45.61	-20	Pass
NVNT	n20	2412	Ant1	-46.1	-20	Pass
NVNT	n20	2437	Ant1	-45.33	-20	Pass
NVNT	n20	2462	Ant1	-43.18	-20	Pass



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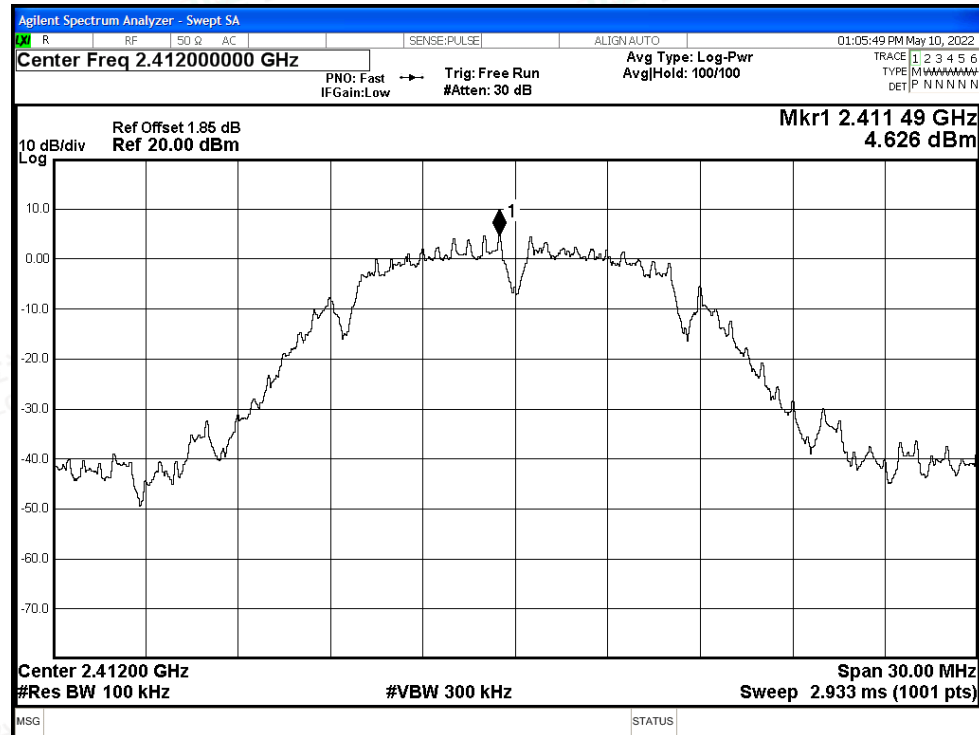
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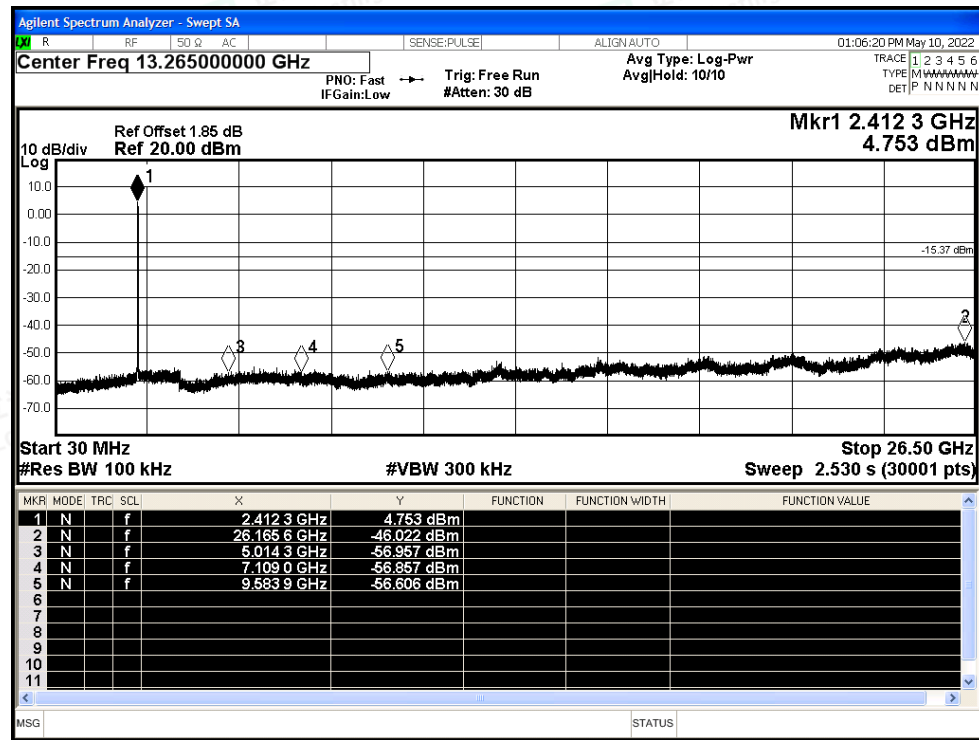


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



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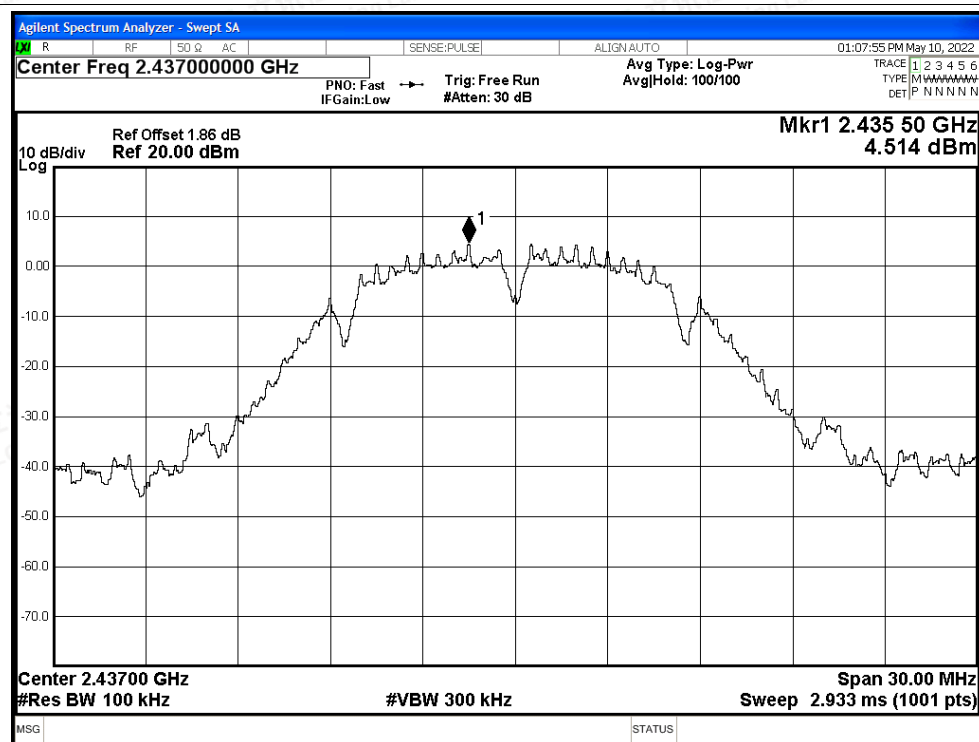
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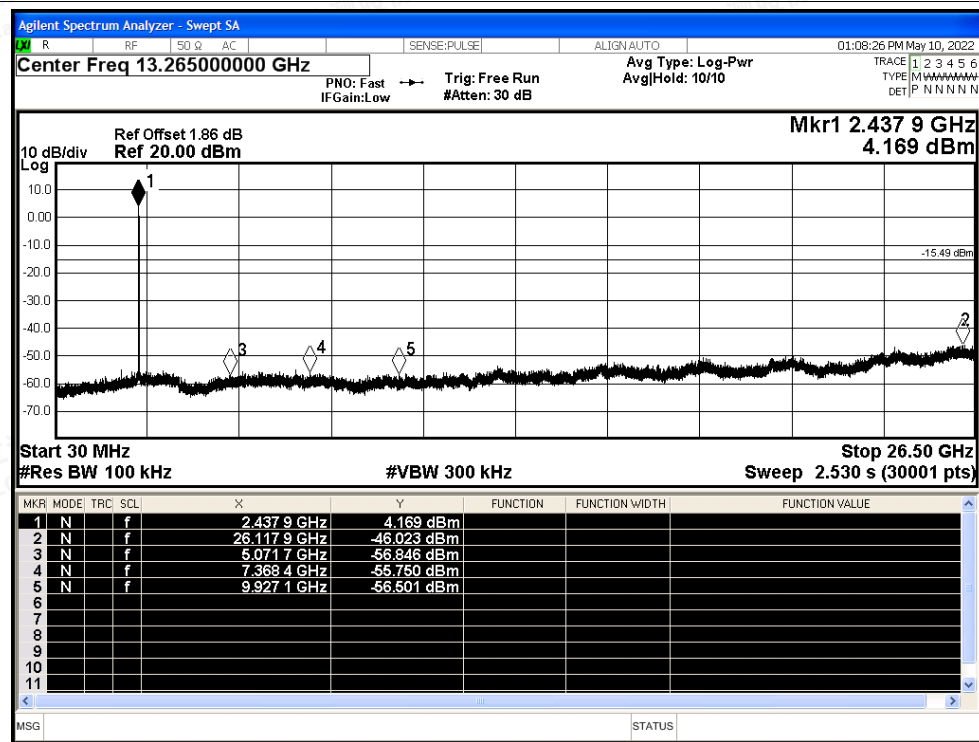
Scan code to check authenticity



Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

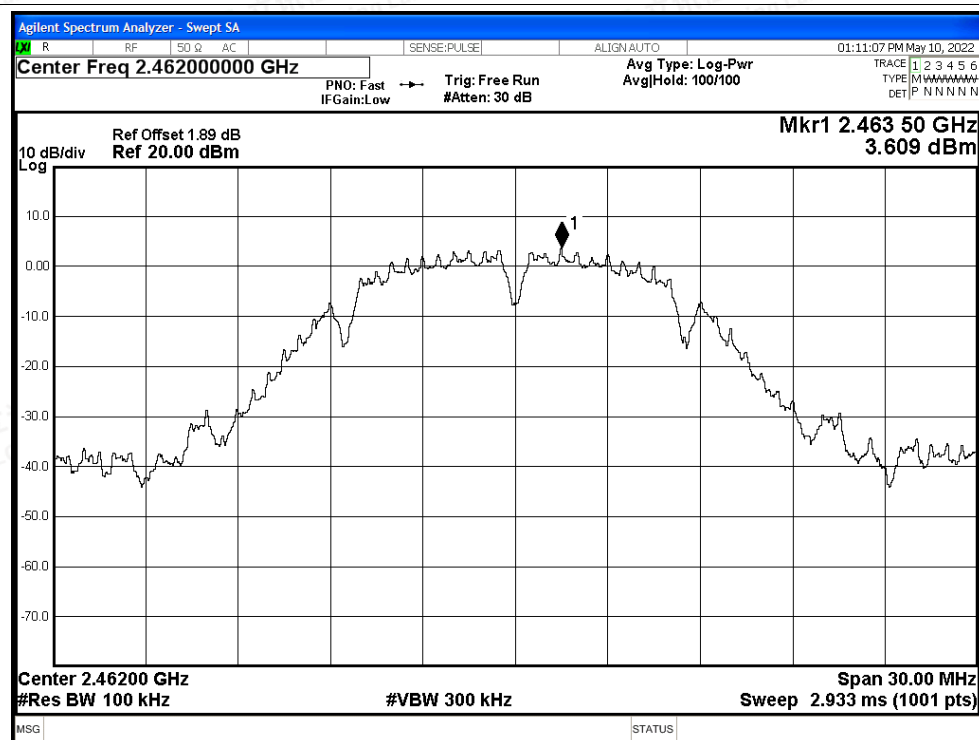
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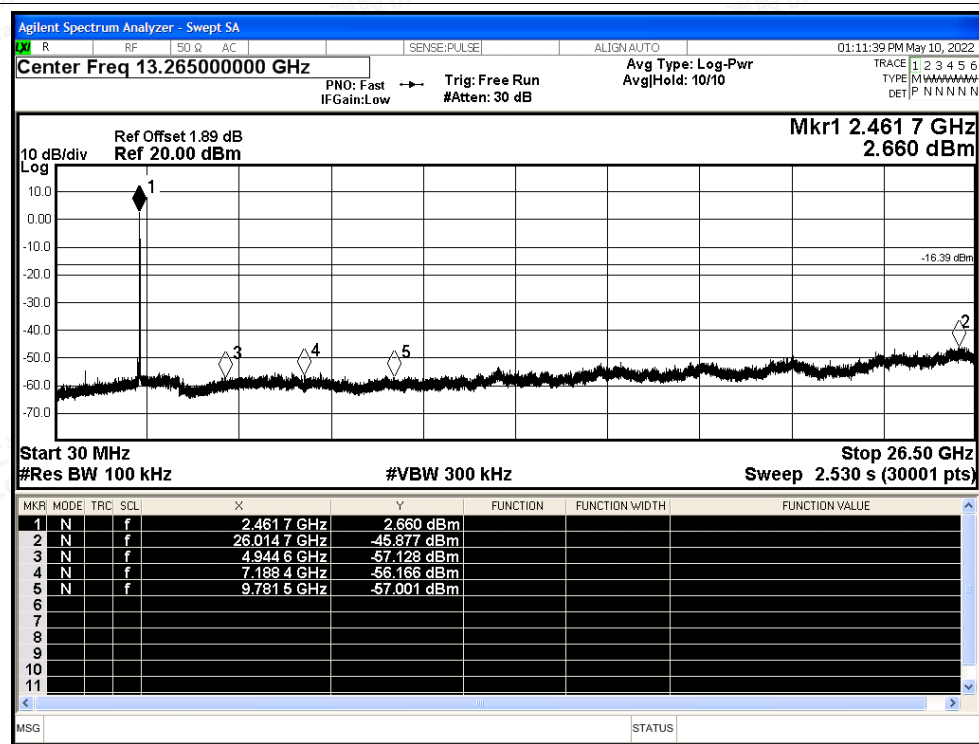
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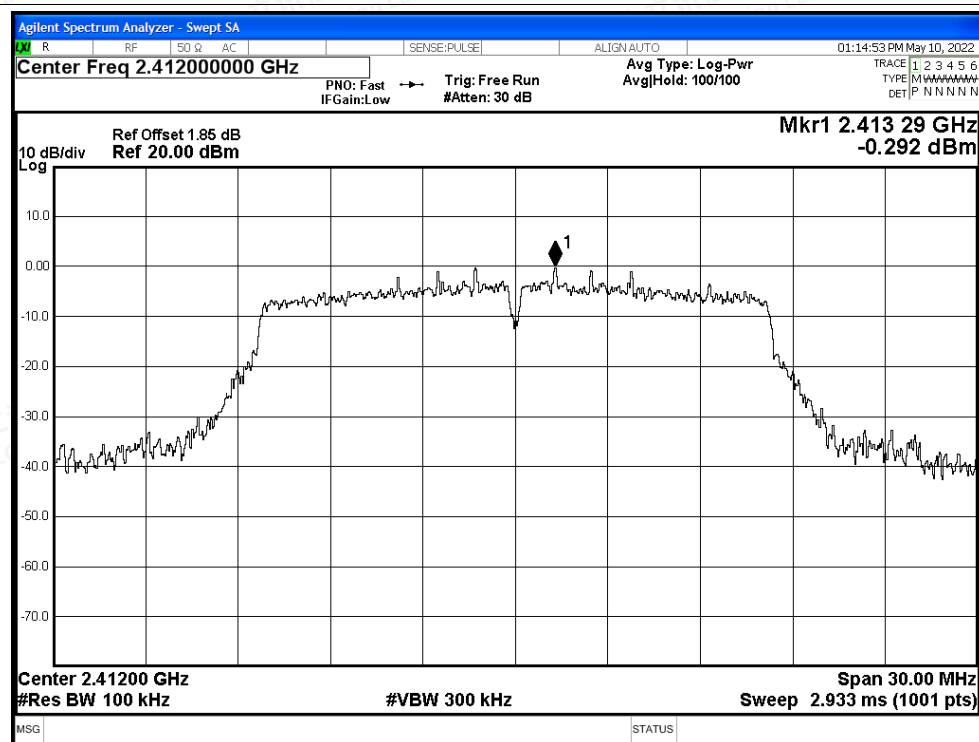
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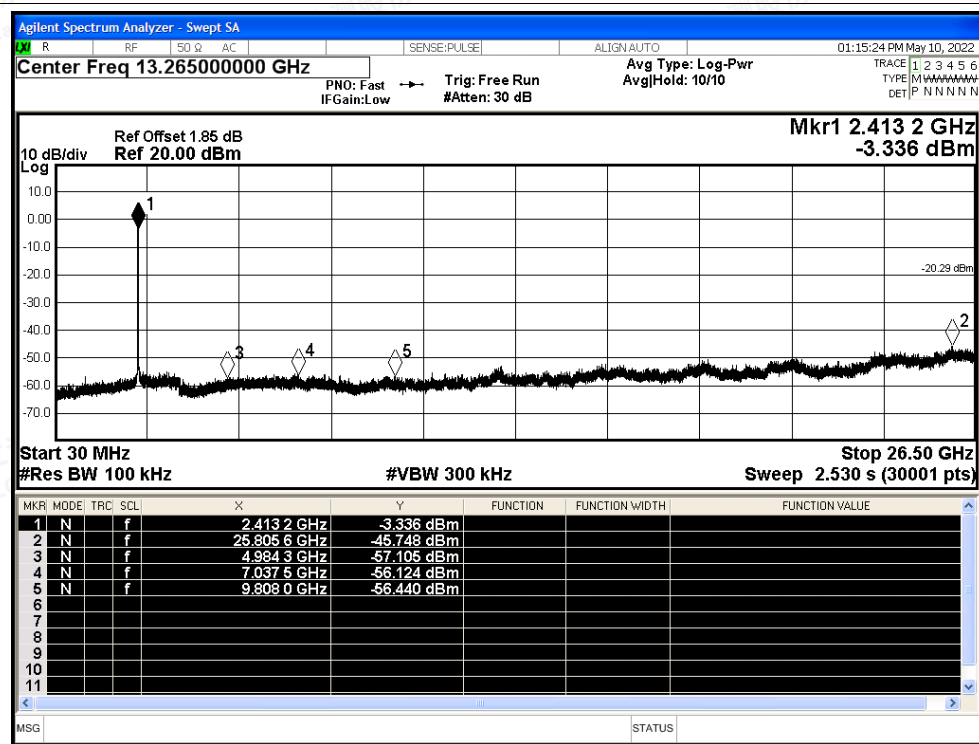
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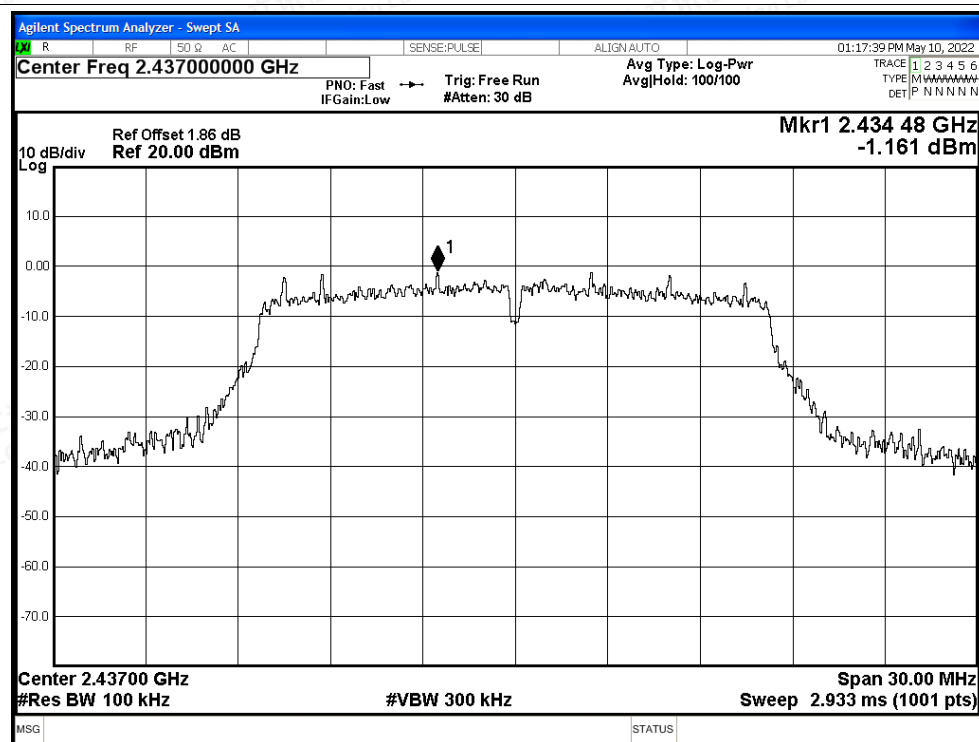
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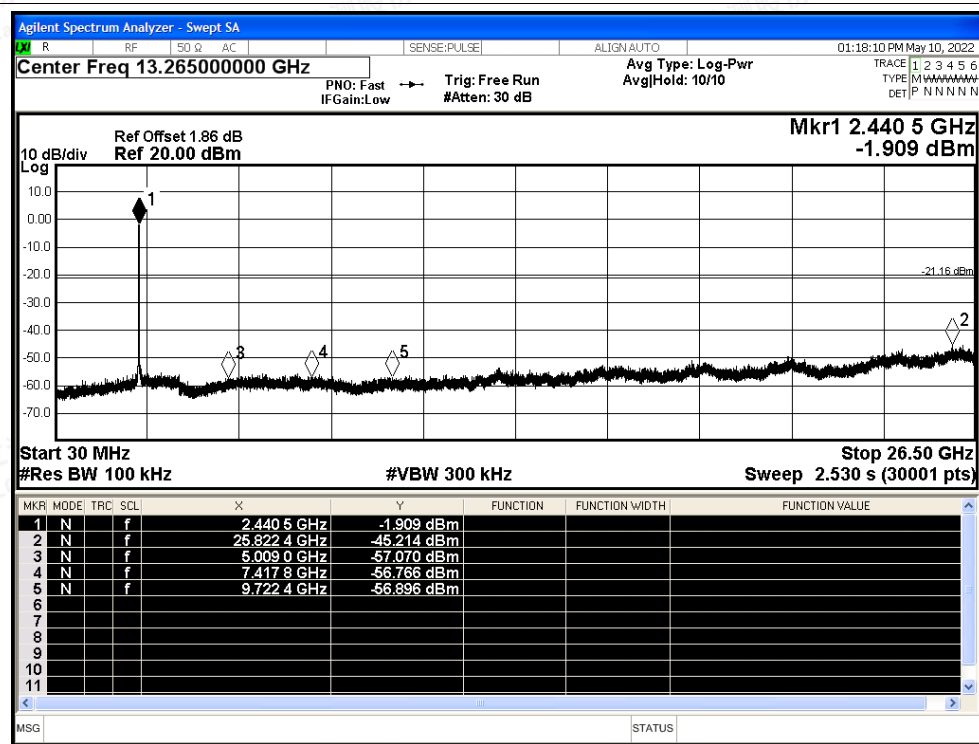
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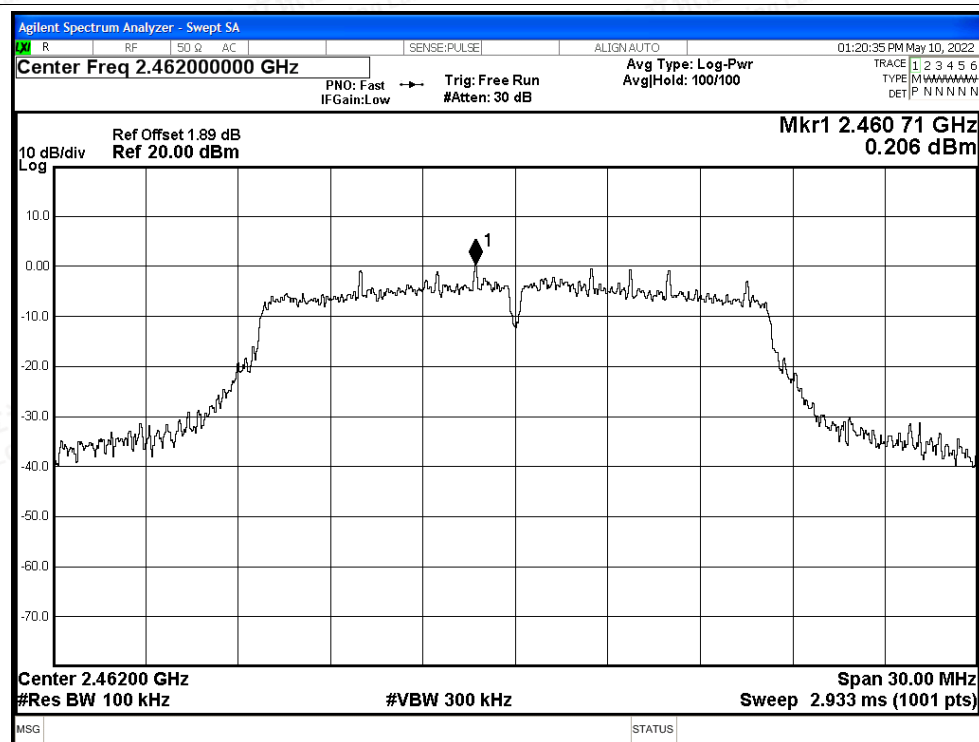
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

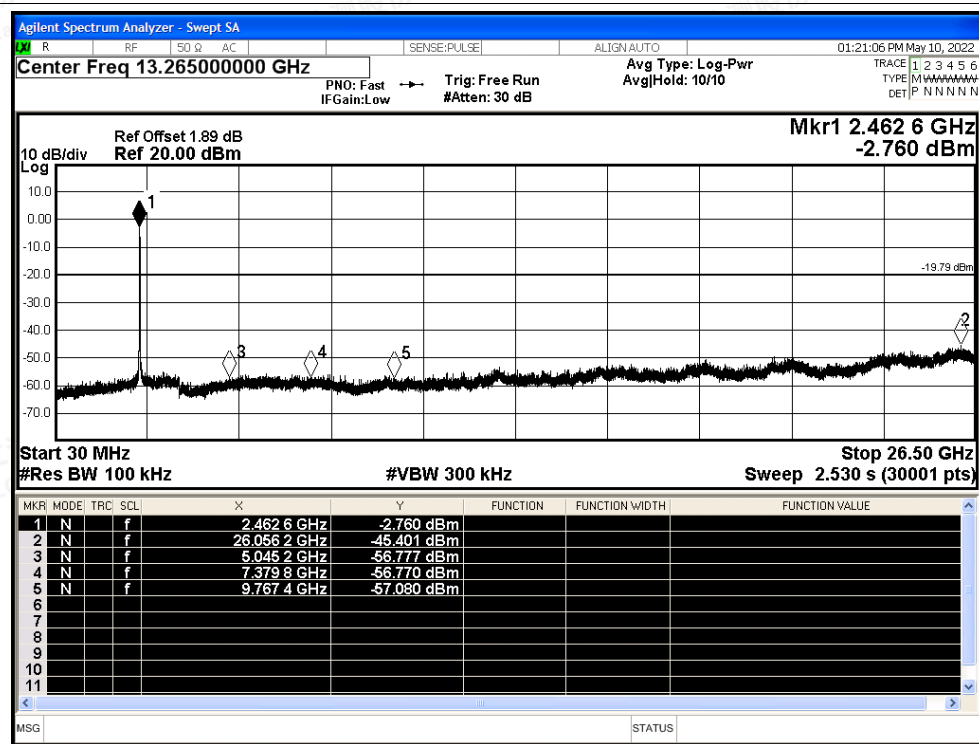
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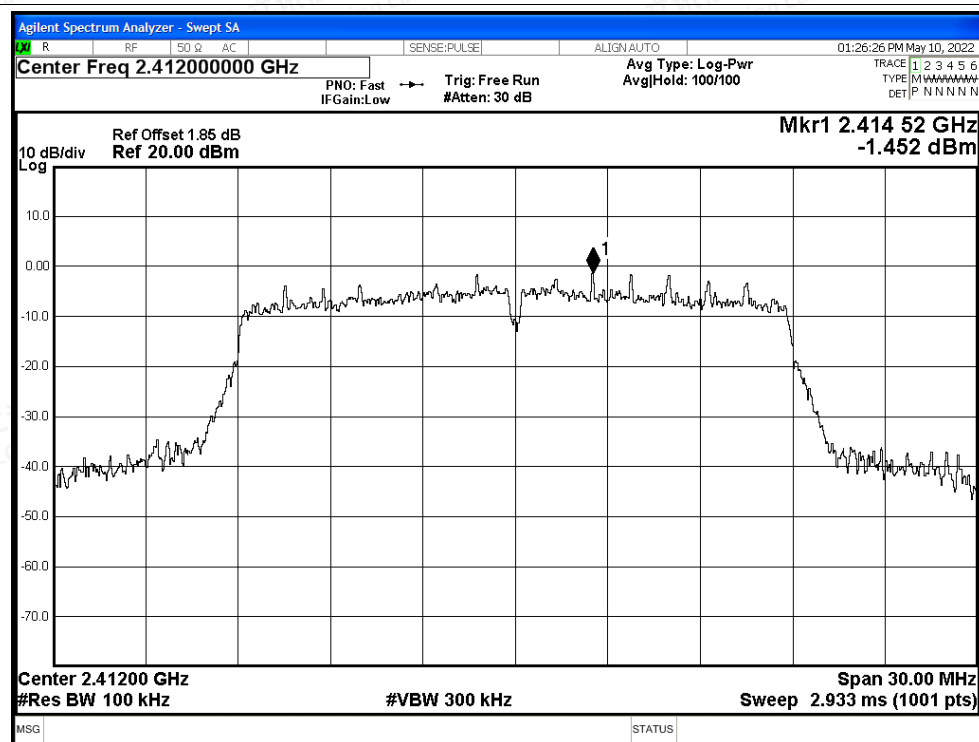
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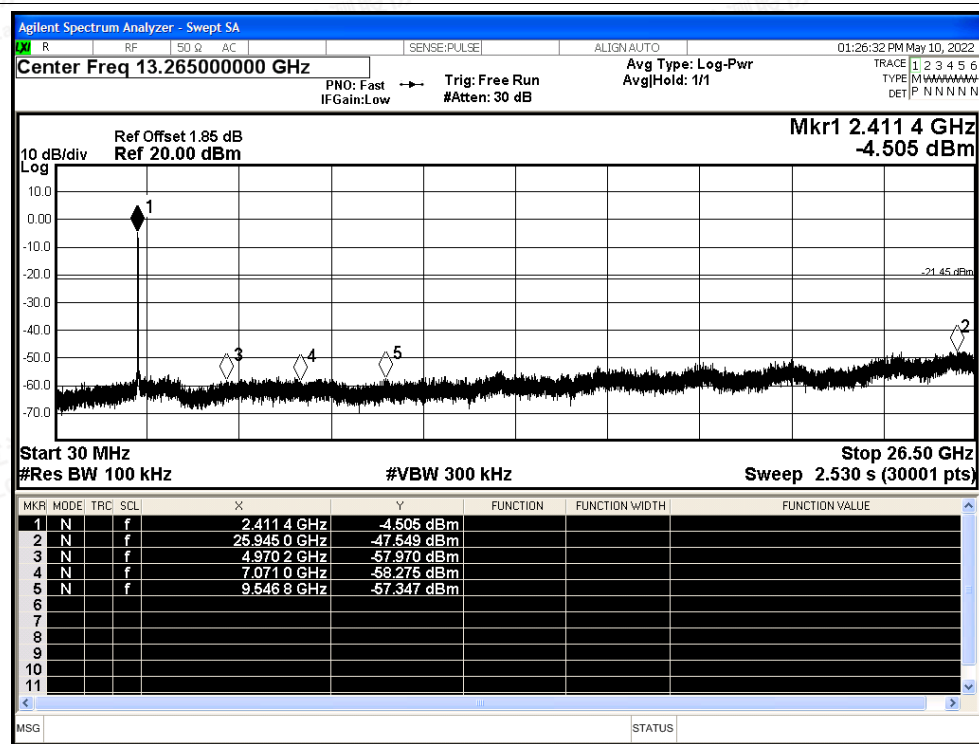
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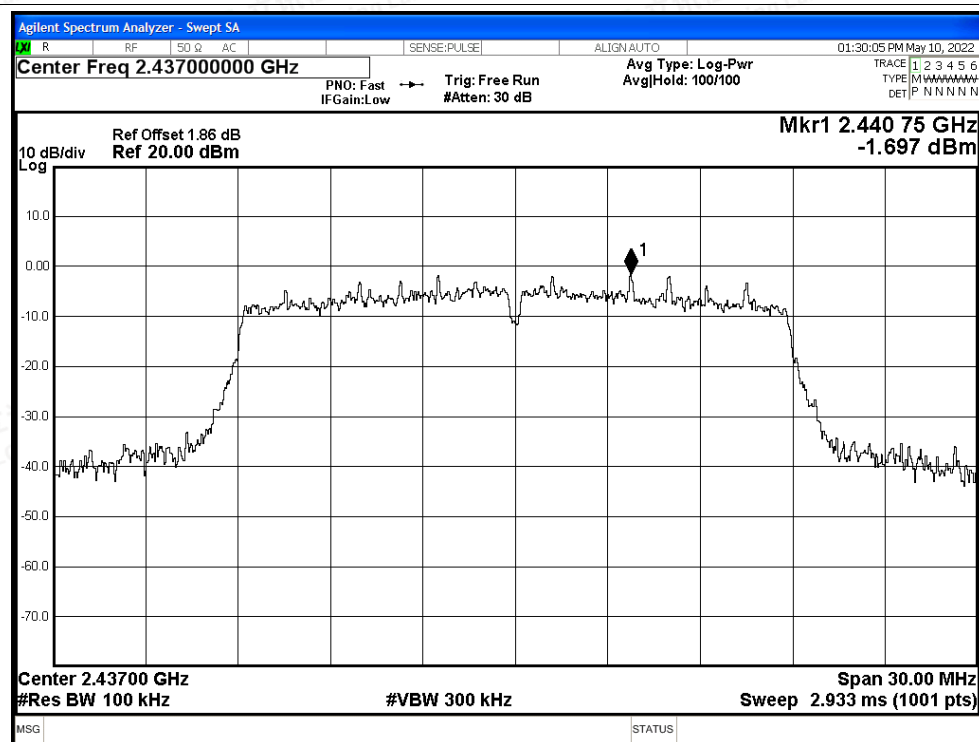
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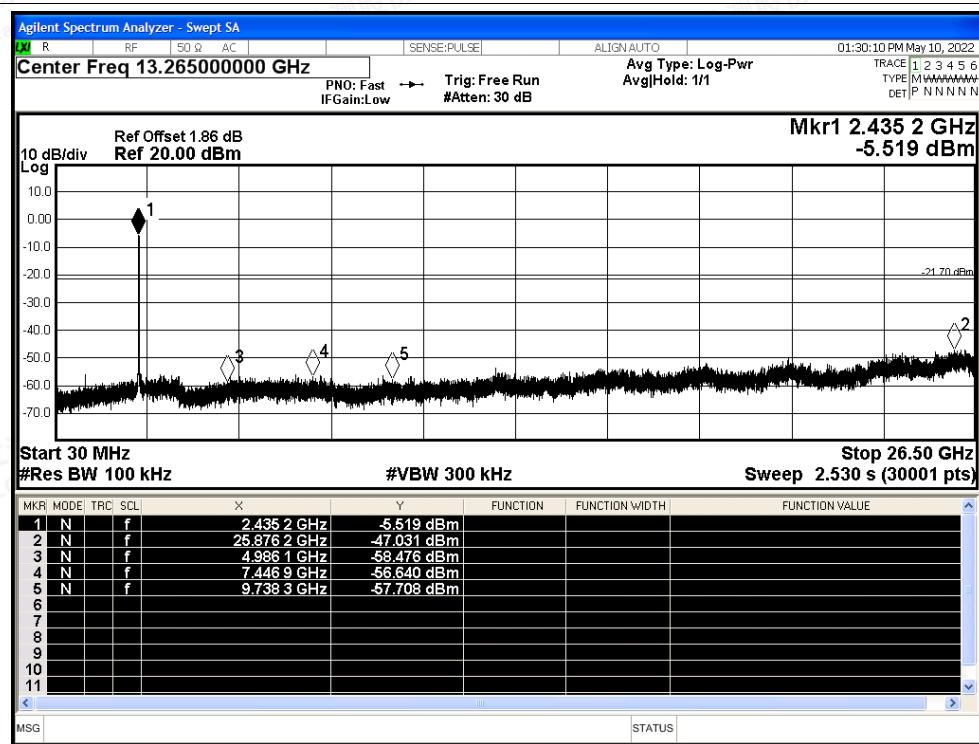
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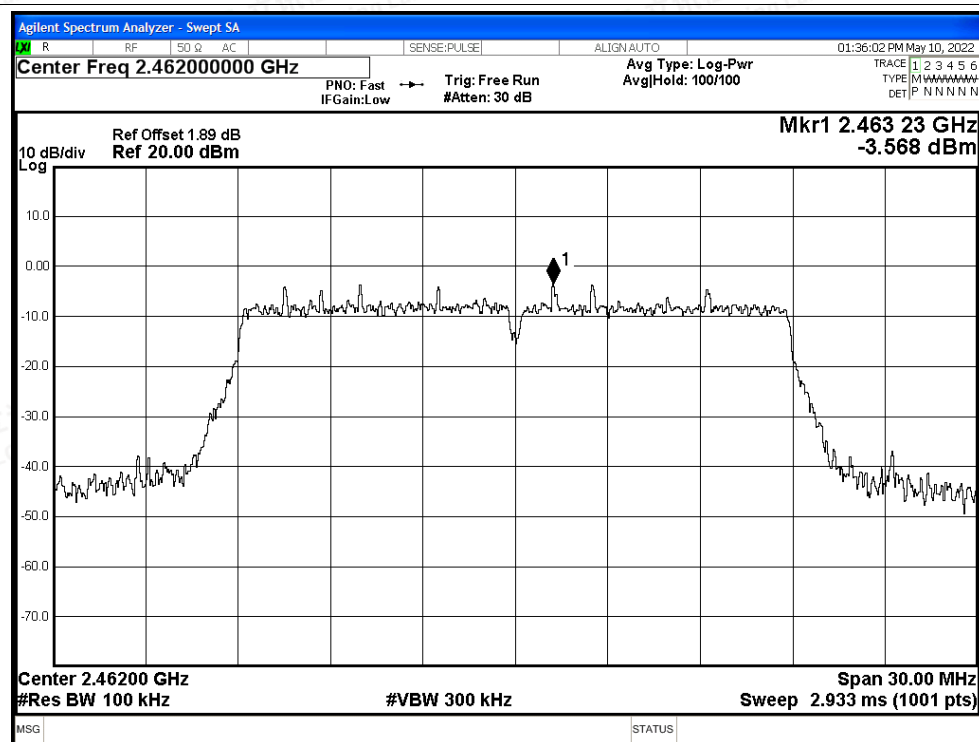
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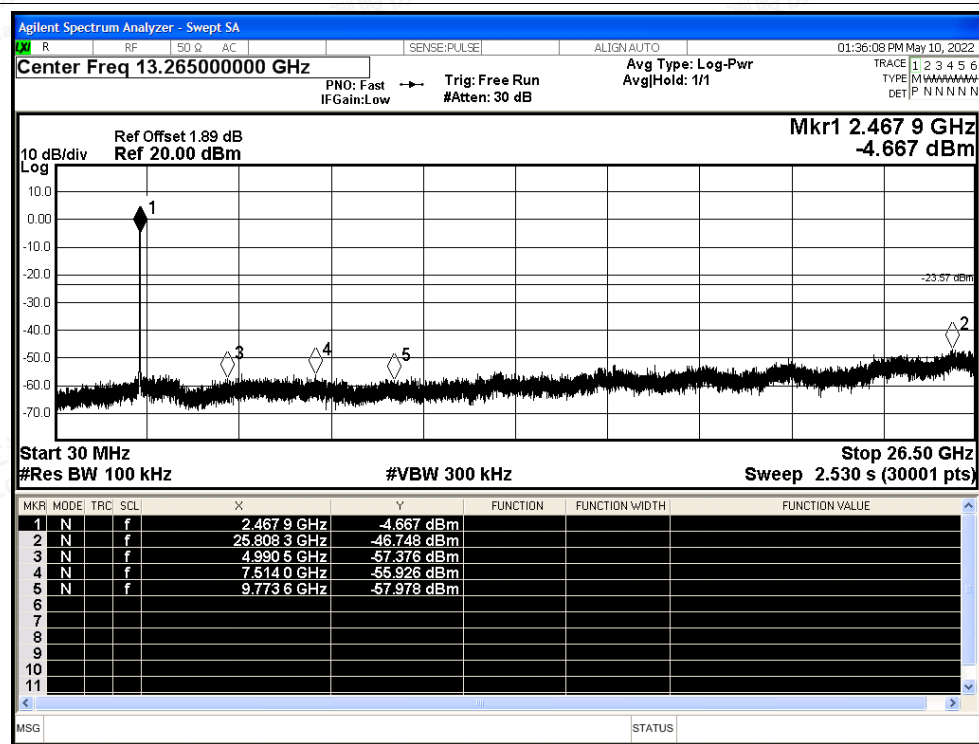
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A.7 Duty Cycle

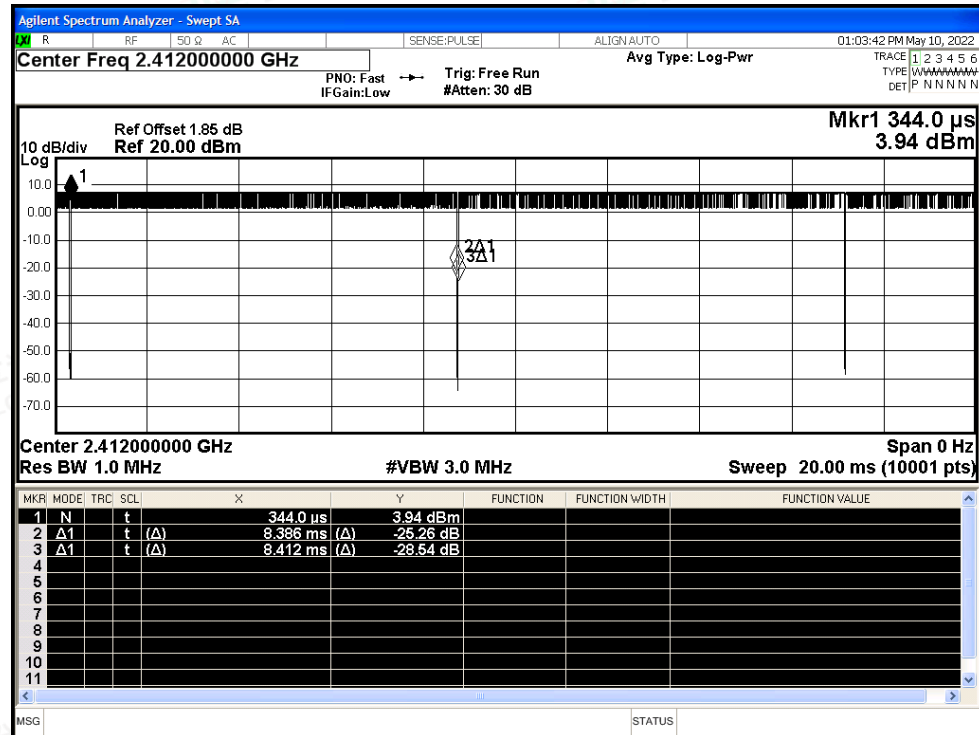
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.69	0	0.01
NVNT	b	2437	Ant1	99.67	0	0.01
NVNT	b	2462	Ant1	99.67	0	0.01
NVNT	g	2412	Ant1	97.48	0.11	0.72
NVNT	g	2437	Ant1	97.48	0.11	0.72
NVNT	g	2462	Ant1	97.62	0.1	0.72
NVNT	n20	2412	Ant1	97.46	0.11	0.77
NVNT	n20	2437	Ant1	97.46	0.11	0.77
NVNT	n20	2462	Ant1	97.46	0.11	0.77



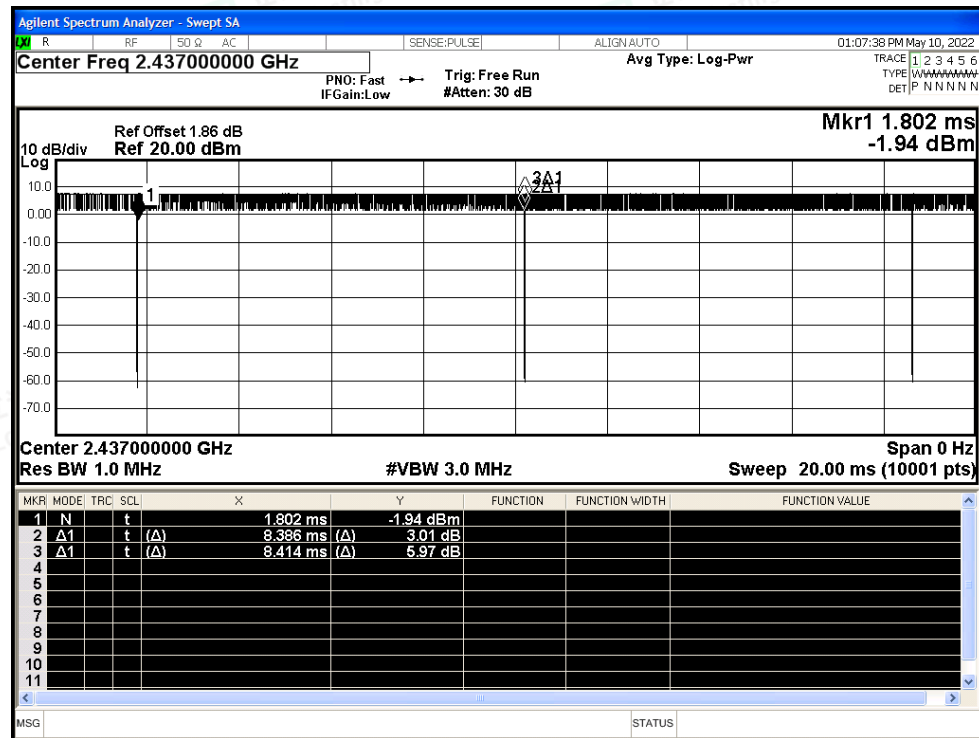


Test Graphs

Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

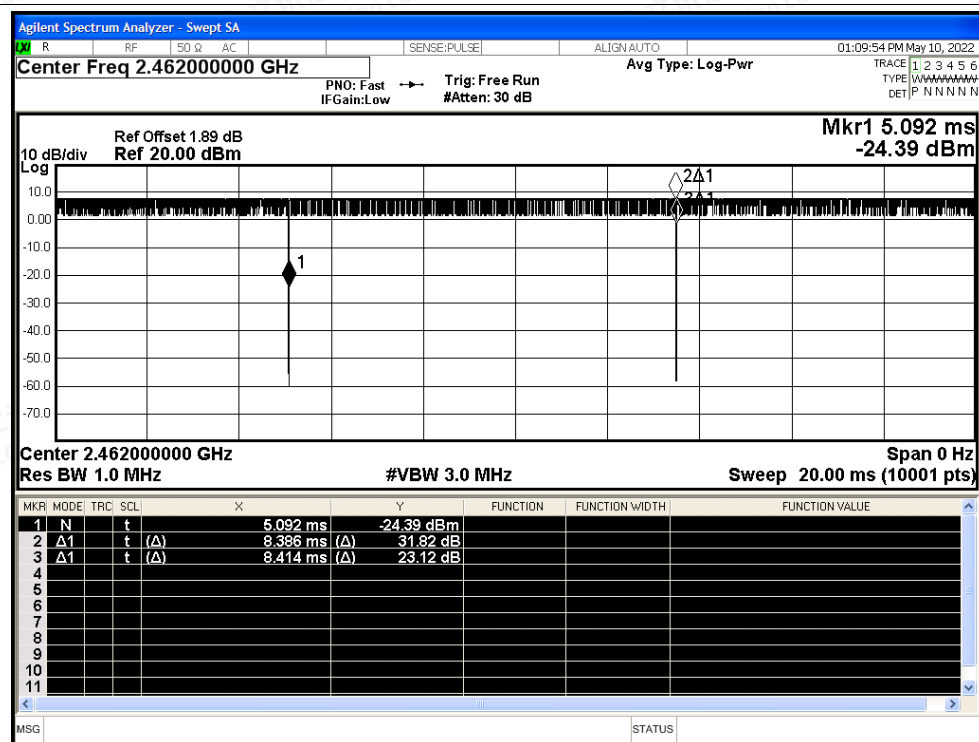
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

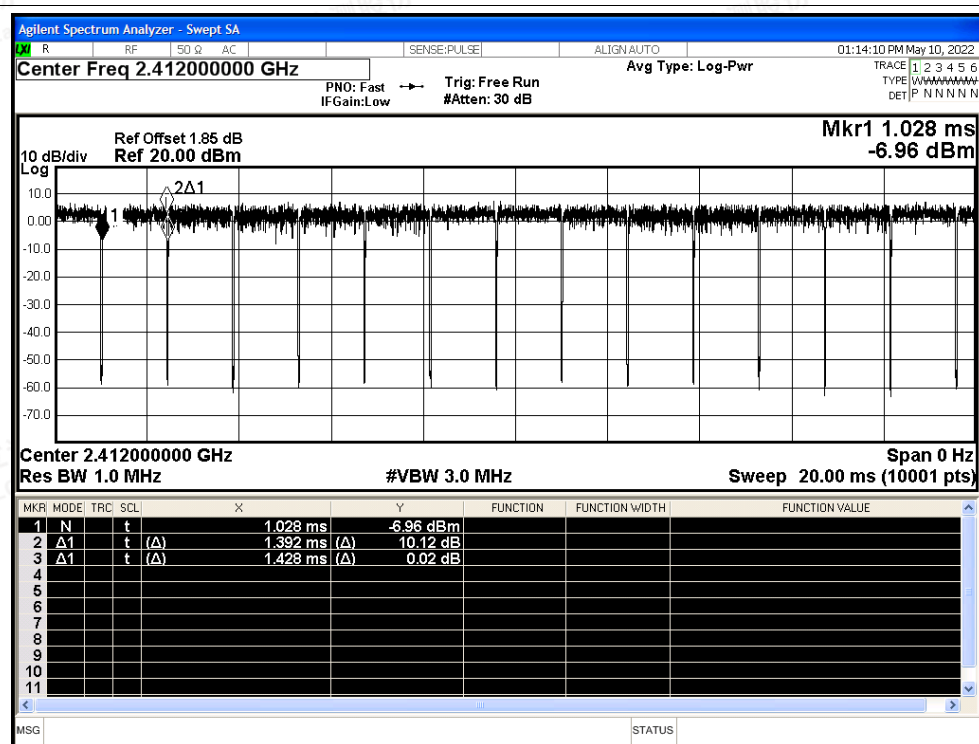
Scan code to check authenticity



Duty Cycle NVNT b 2462MHz Ant1



Duty Cycle NVNT g 2412MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

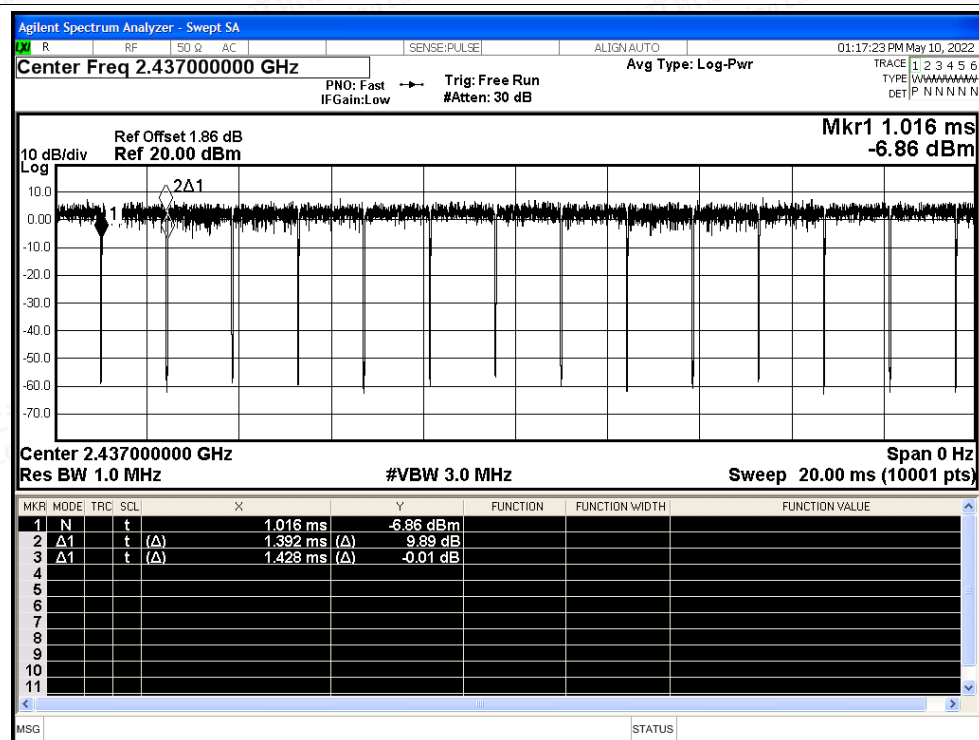
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

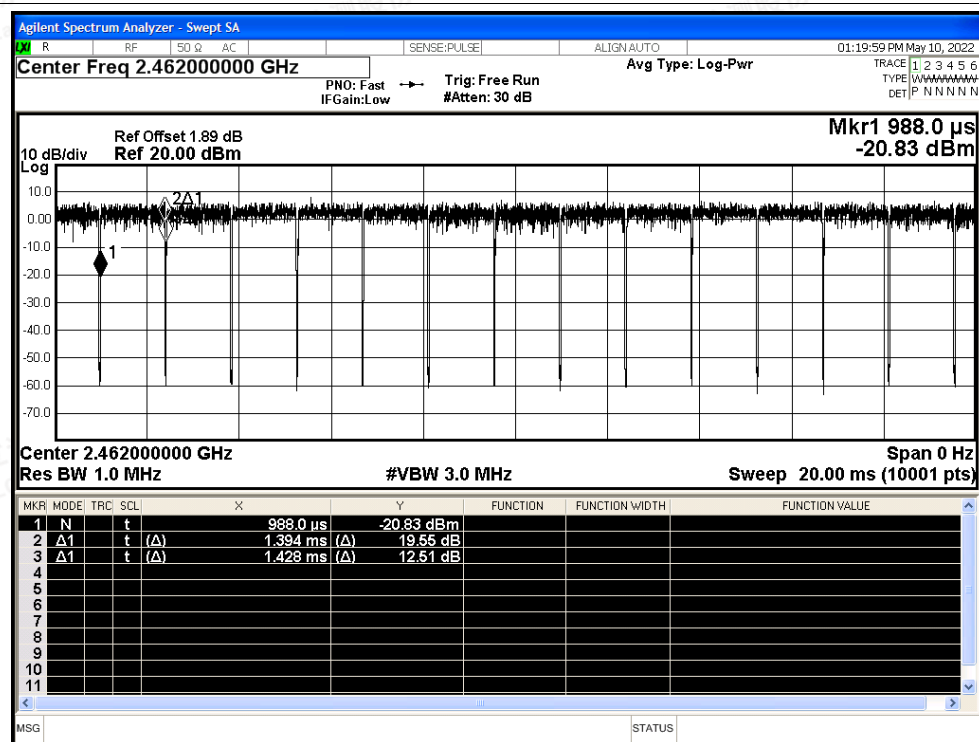
Scan code to check authenticity



Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2462MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

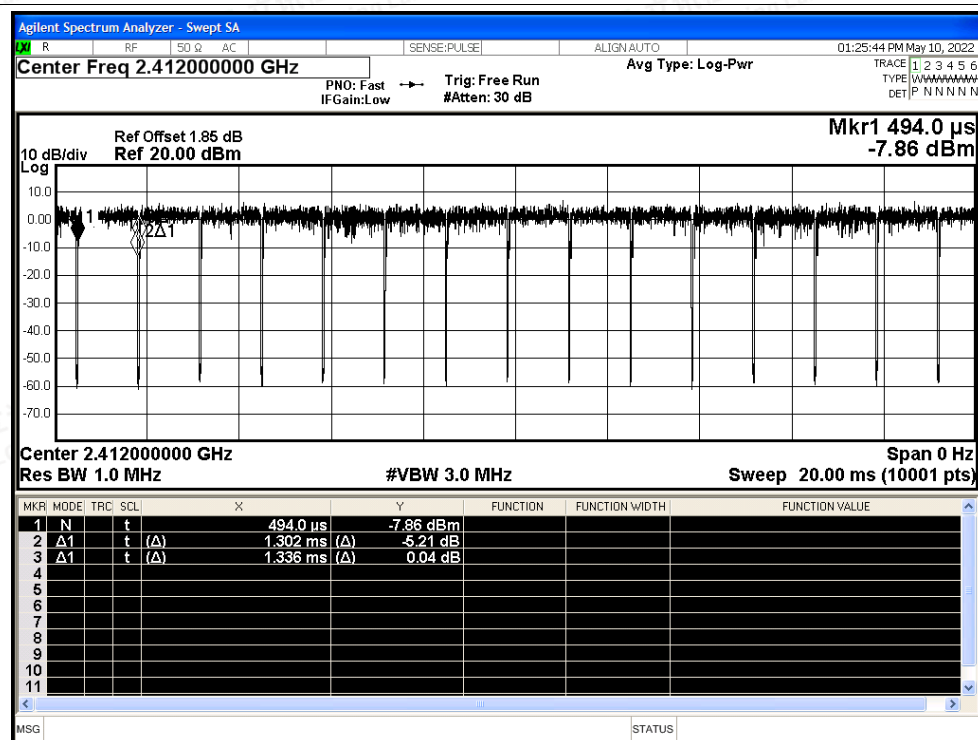
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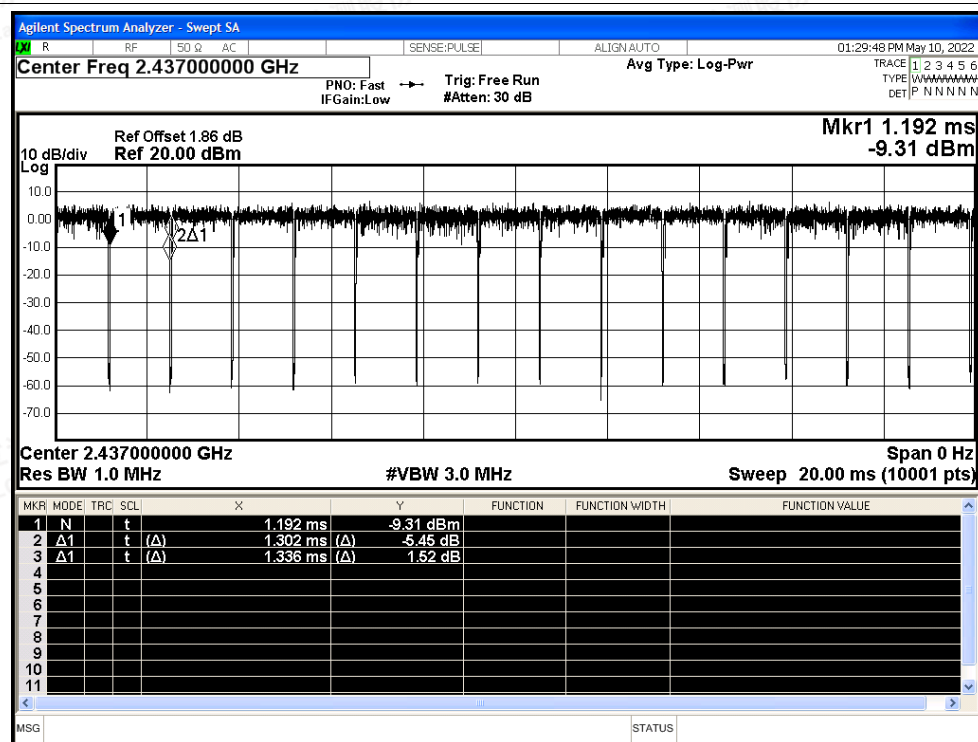
Scan code to check authenticity



Duty Cycle NVNT n20 2412MHz Ant1



Duty Cycle NVNT n20 2437MHz Ant1

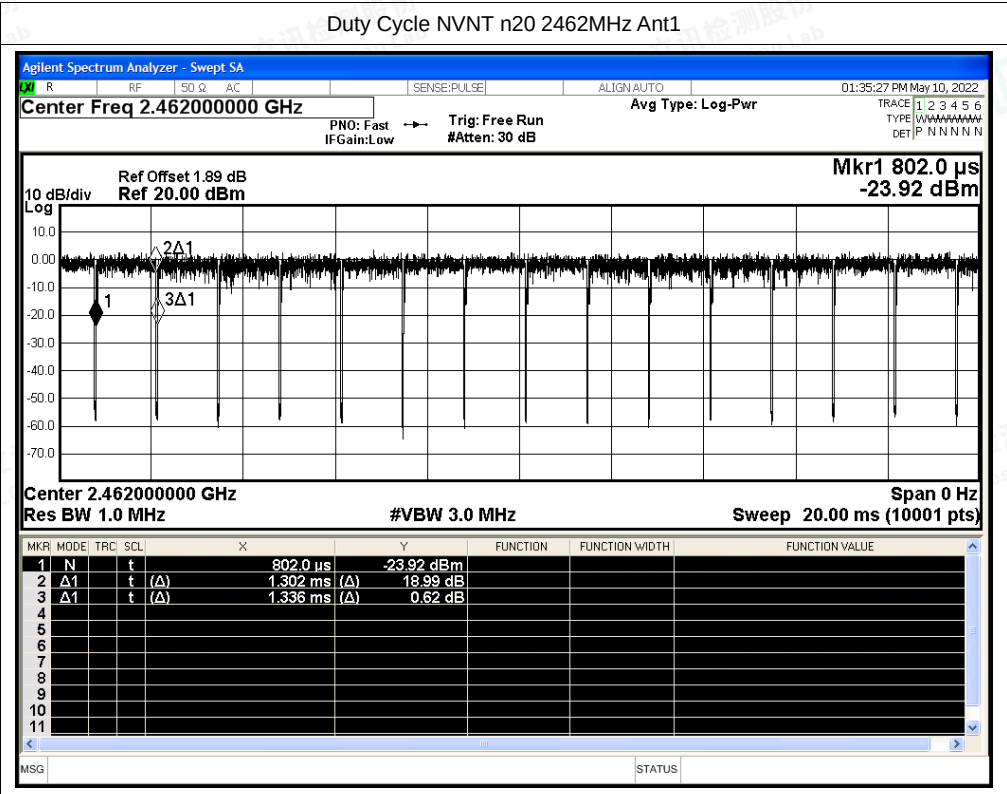


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A.8 Restrict Band

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	-51.01	3.43	47.65	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-60.73	3.43	37.93	Average	54	Pass
NVNT	b	2412	Ant1	2389.443	-45.38	3.43	53.28	Peak	74	Pass
NVNT	b	2412	Ant1	2389.911	-55.88	3.43	42.78	Average	54	Pass
NVNT	b	2412	Ant1	2390	-43.73	3.43	54.93	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-55.68	3.43	42.98	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-48.99	3.43	49.67	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-57.31	3.43	41.35	Average	54	Pass
NVNT	b	2462	Ant1	2483.676	-44.16	3.43	54.50	Peak	74	Pass
NVNT	b	2462	Ant1	2485.955	-56.03	3.43	42.63	Average	54	Pass
NVNT	b	2462	Ant1	2500	-49.53	3.43	49.13	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-59.09	3.43	39.57	Average	54	Pass
NVNT	g	2412	Ant1	2310	-50.1	3.43	48.56	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-60.06	3.43	38.60	Average	54	Pass
NVNT	g	2412	Ant1	2389.443	-39.05	3.43	59.61	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-52.11	3.43	46.55	Average	54	Pass
NVNT	g	2412	Ant1	2390	-40.75	3.43	57.91	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-51.87	3.43	46.79	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-36.82	3.43	61.84	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-48.35	3.43	50.31	Average	54	Pass
NVNT	g	2462	Ant1	2483.835	-30.4	3.43	68.26	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-48.35	3.43	50.31	Average	54	Pass
NVNT	g	2462	Ant1	2500	-45.08	3.43	53.58	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-55.49	3.43	43.17	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-51.04	3.43	47.62	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-59.92	3.43	38.74	Average	54	Pass
NVNT	n20	2412	Ant1	2389.092	-35.69	3.43	62.97	Peak	74	Pass
NVNT	n20	2412	Ant1	2389.911	-51.96	3.43	46.70	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-39.11	3.43	59.55	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-51.64	3.43	47.02	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-36.45	3.43	62.21	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-52.5	3.43	46.16	Average	54	Pass
NVNT	n20	2462	Ant1	2484.259	-35.08	3.43	63.58	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.517	-52.5	3.43	46.16	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-46.07	3.43	52.59	Peak	74	Pass
NVNT	n20	2462	Ant1	2500	-56.92	3.43	41.74	Average	54	Pass



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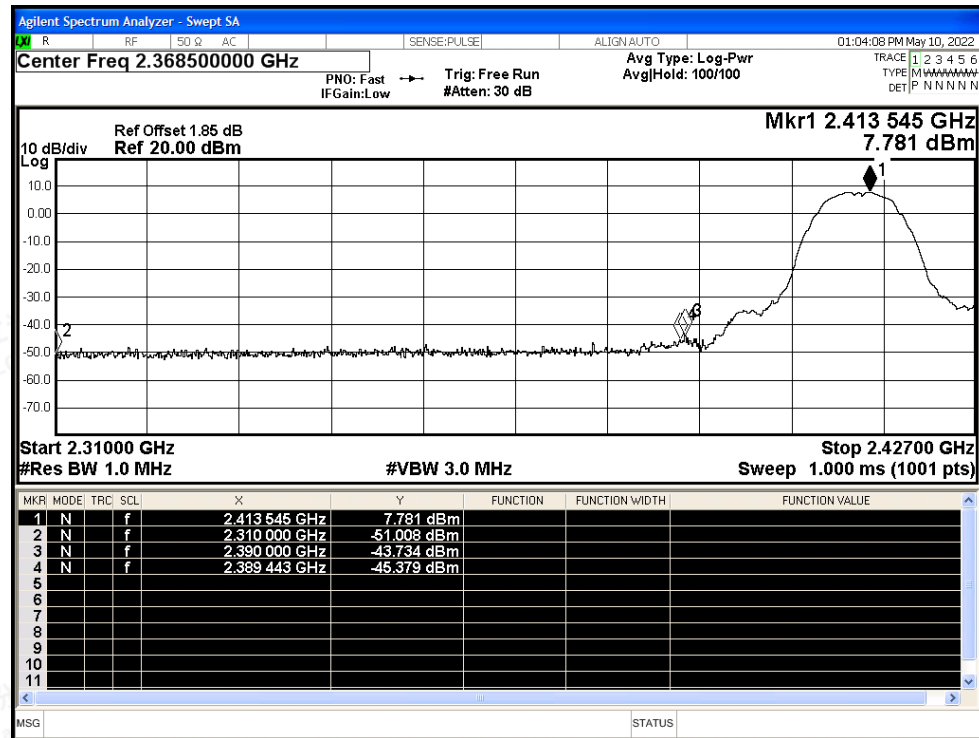
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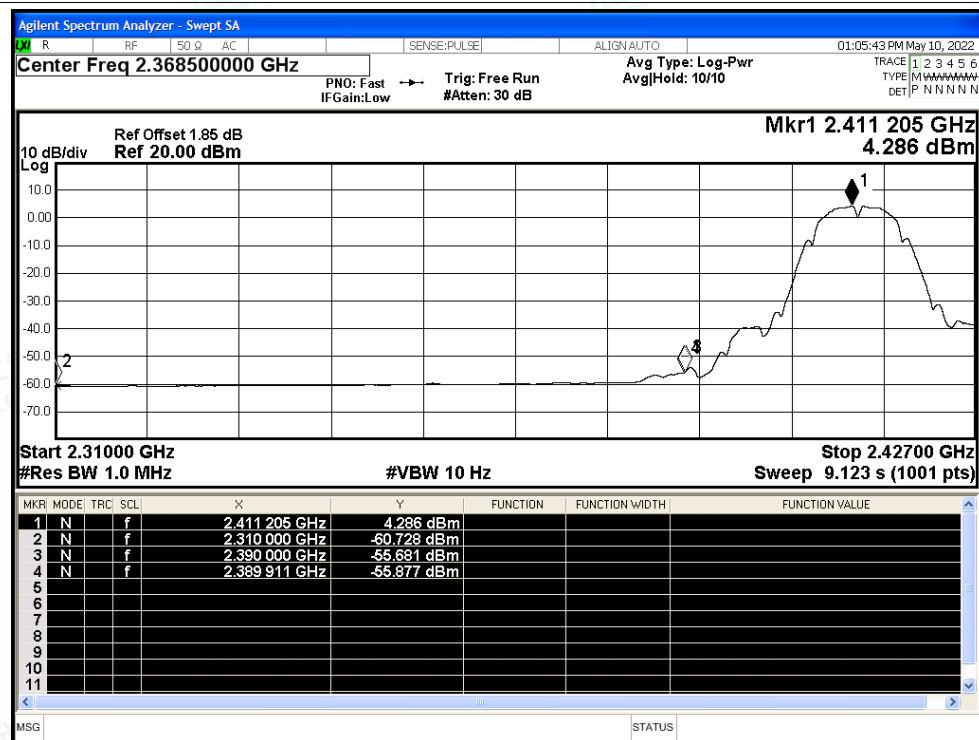


Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average



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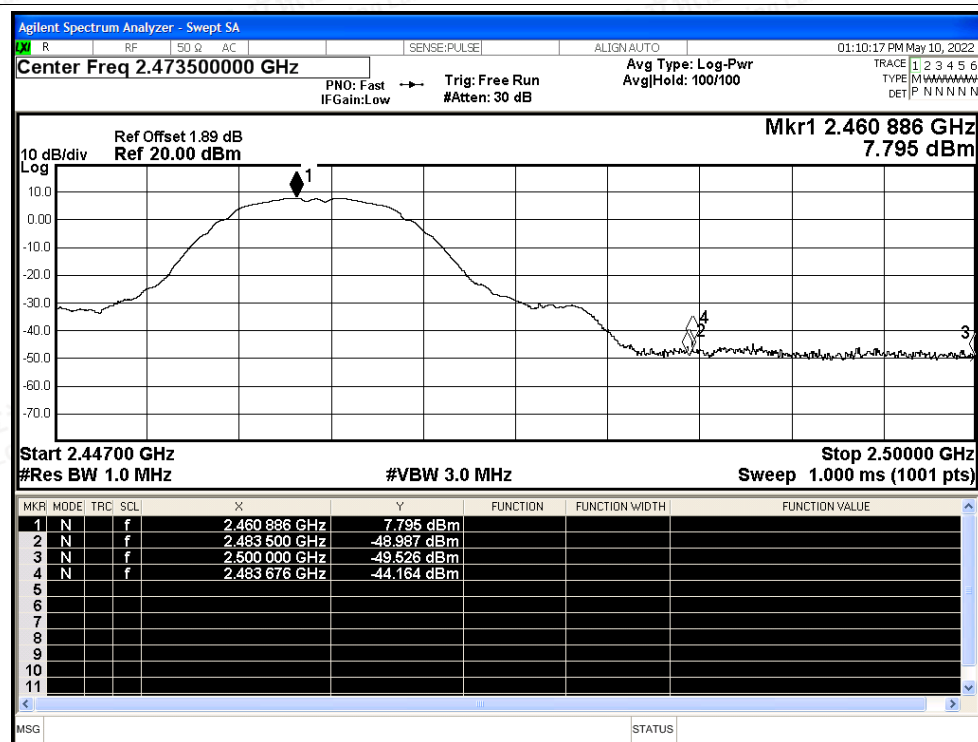
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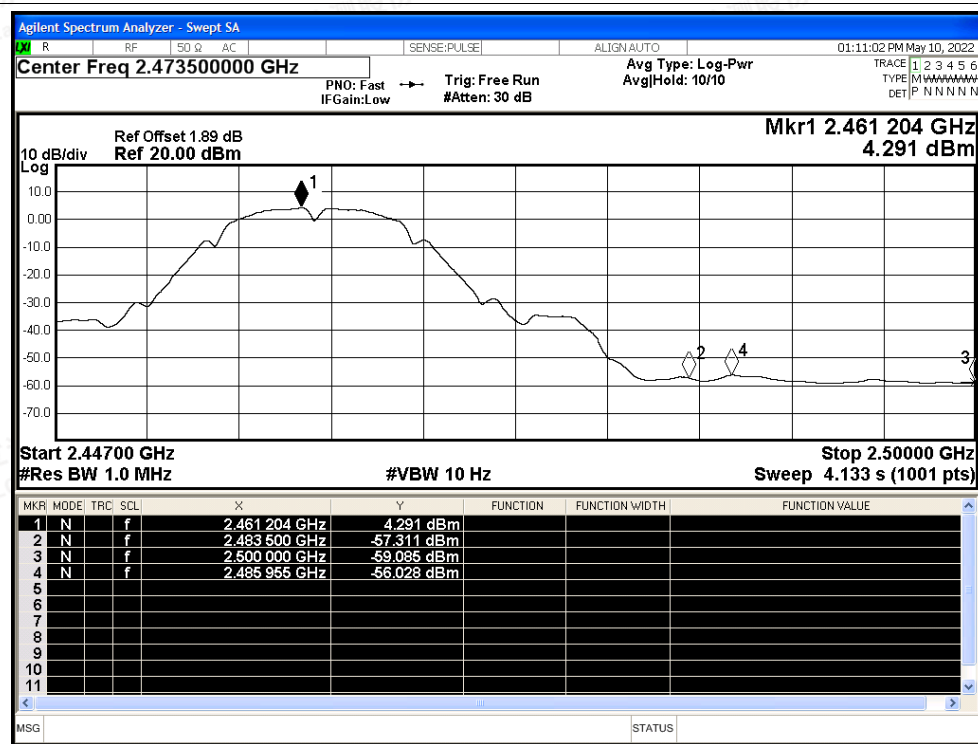
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Restrict Band NVNT b 2462MHz Ant1 Peak



Restrict Band NVNT b 2462MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

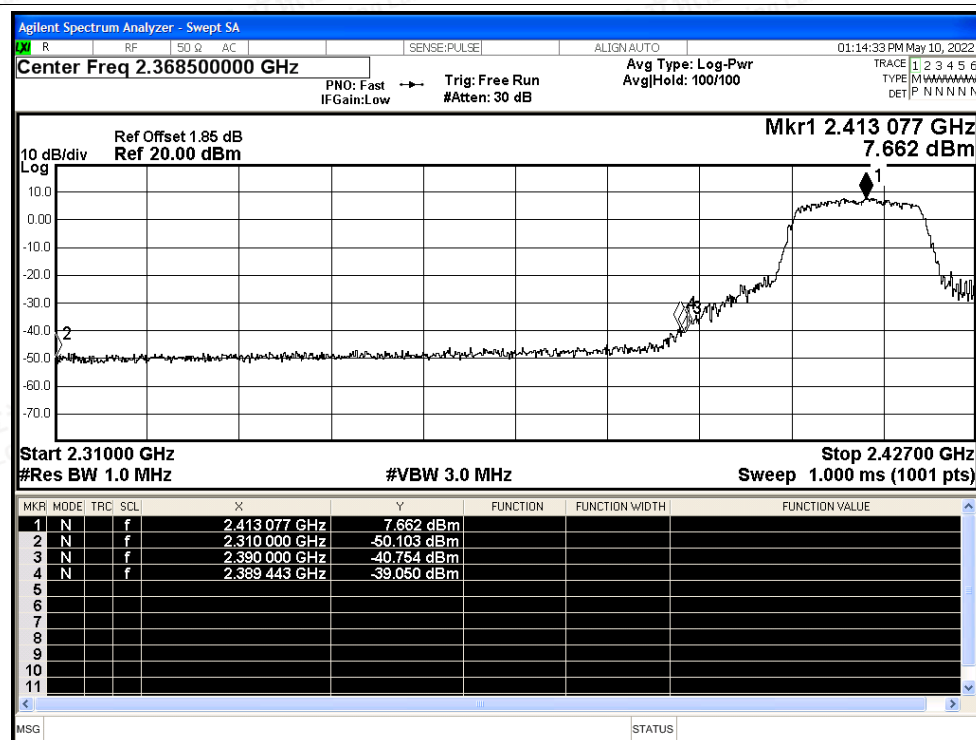
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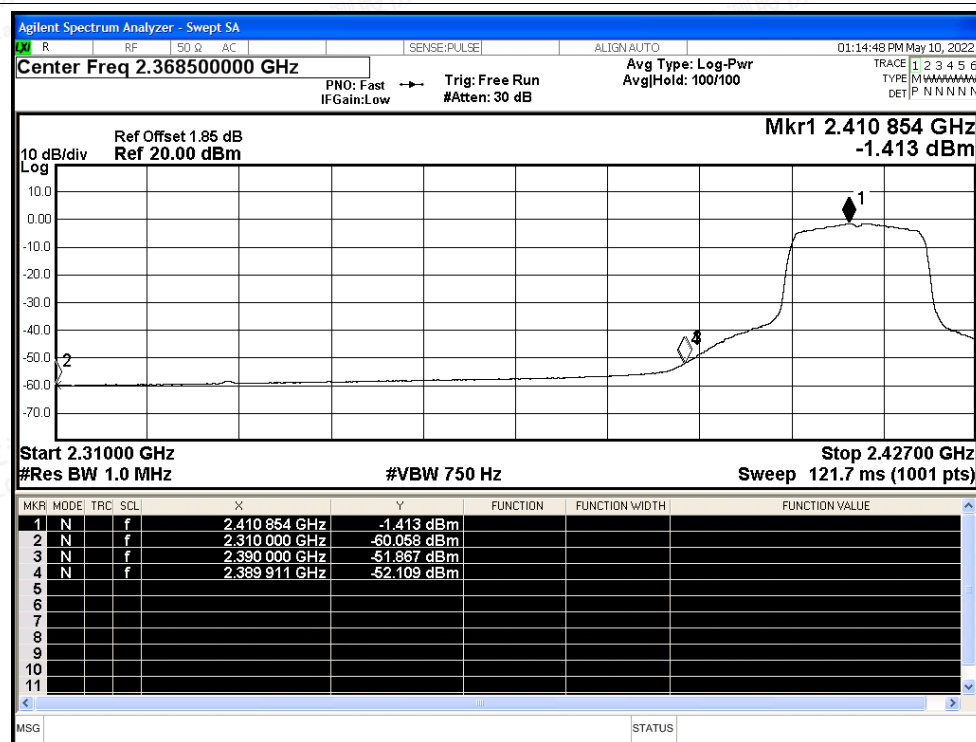
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Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

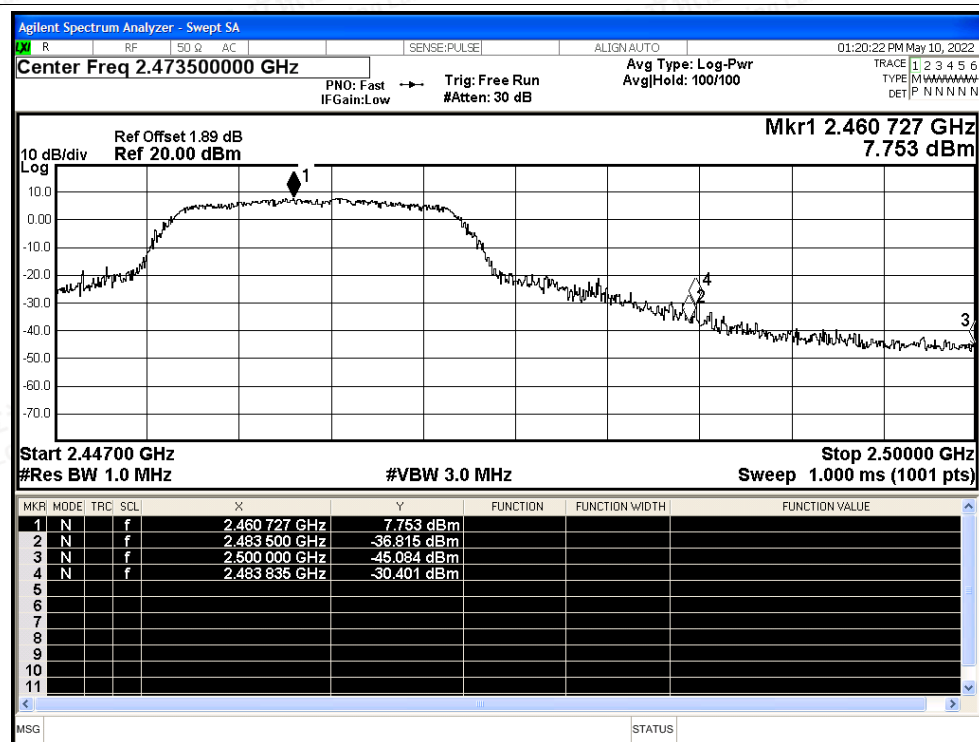
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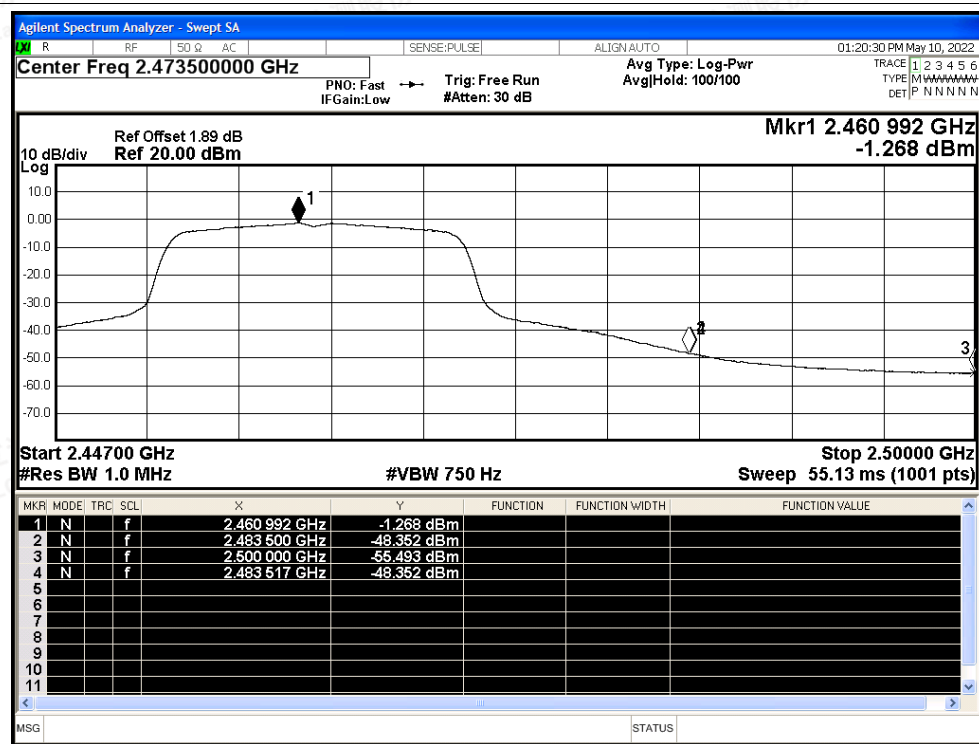
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Restrict Band NVNT g 2462MHz Ant1 Peak



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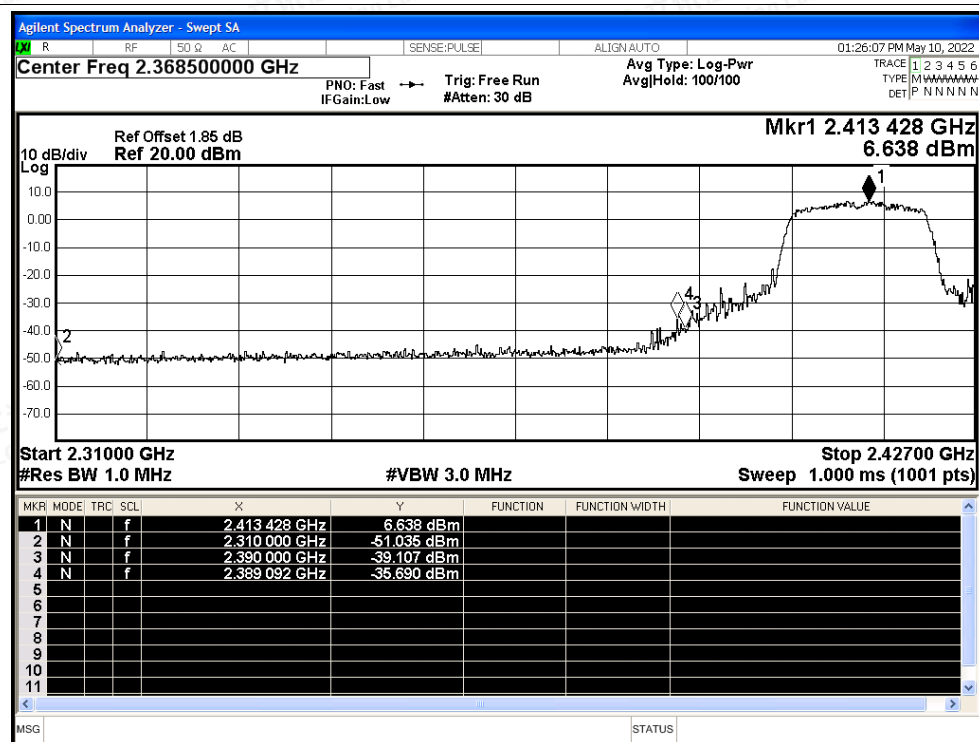
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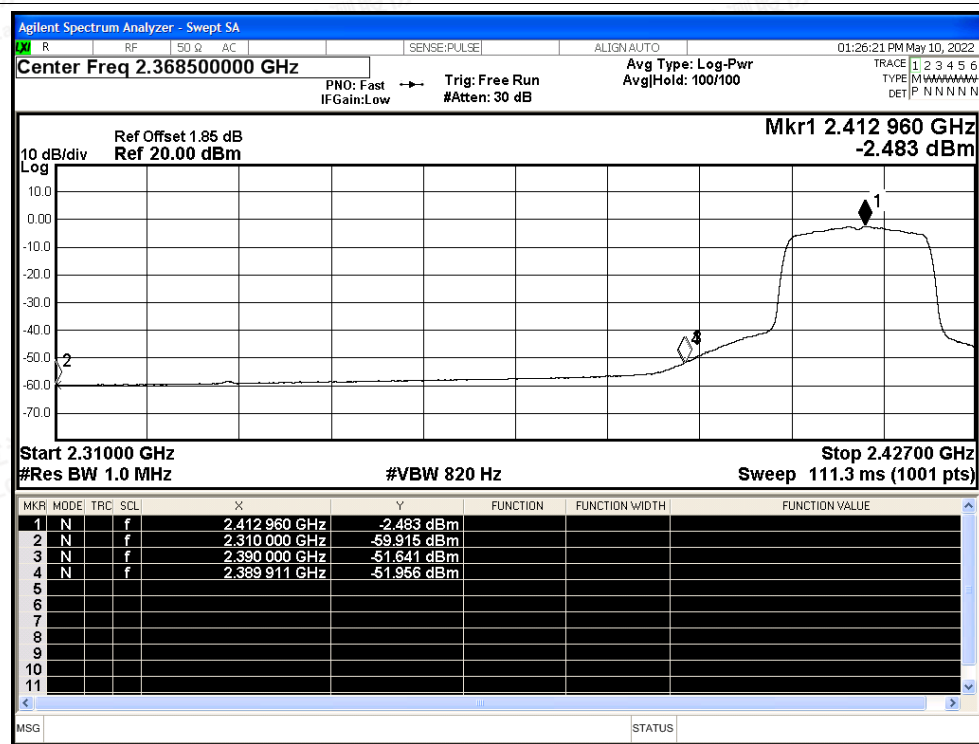
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Restrict Band NVNT n20 2412MHz Ant1 Peak



Restrict Band NVNT n20 2412MHz Ant1 Average



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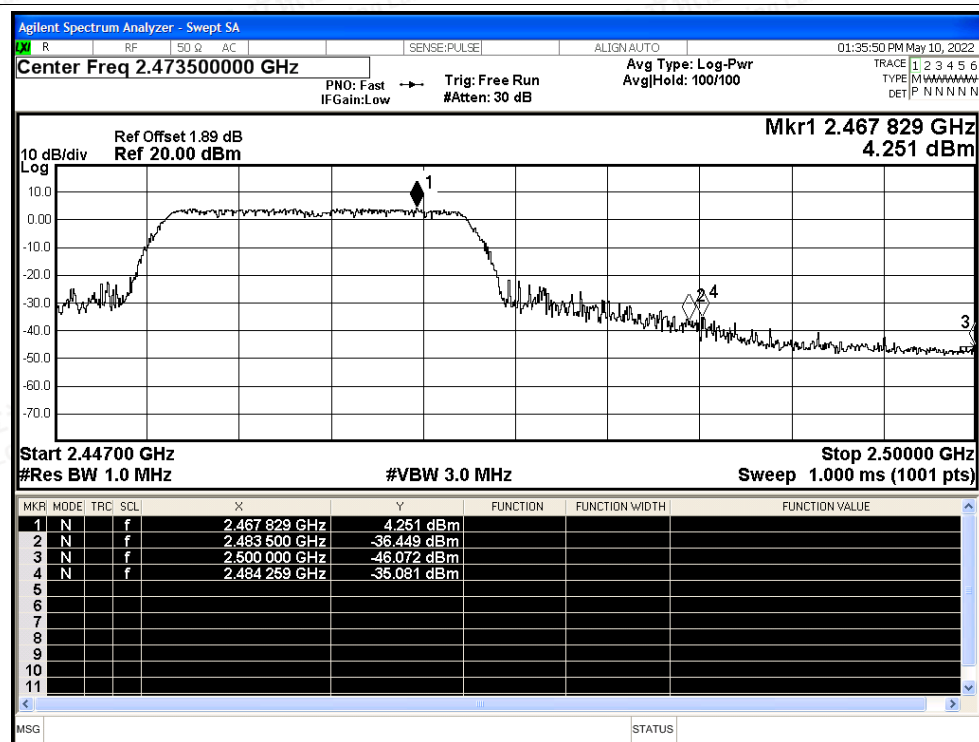
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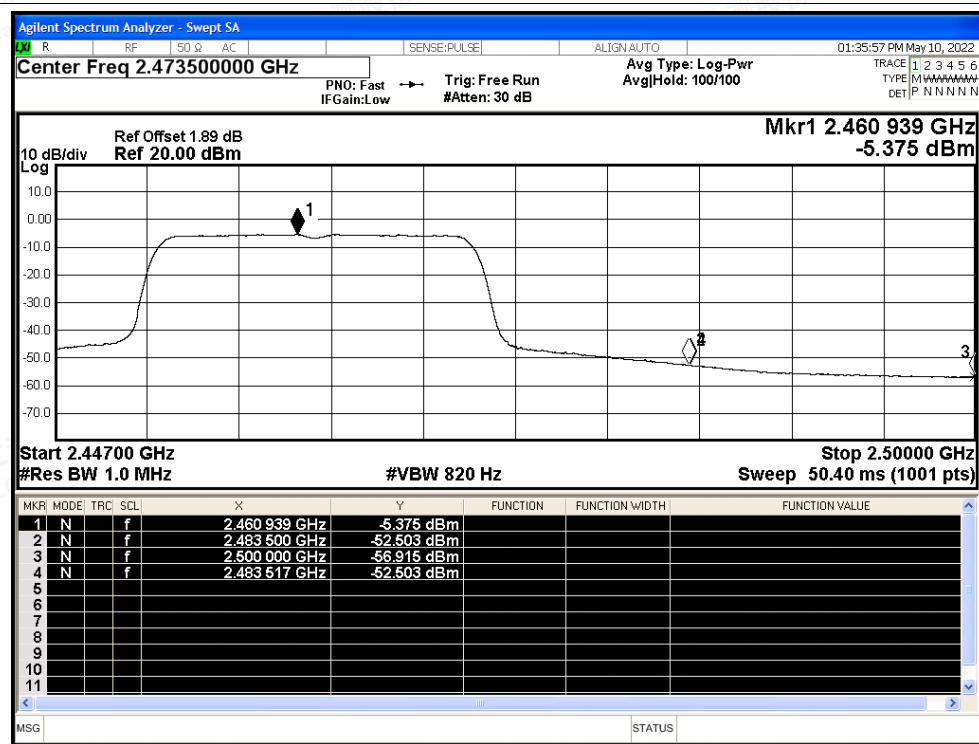
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