



Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: LED Controller
Test Model: SP528E

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Nick Peng





B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.55	≥ 0.5	Pass
NVNT	b	2437	Ant1	10.064	≥ 0.5	Pass
NVNT	b	2462	Ant1	9.537	≥ 0.5	Pass
NVNT	g	2412	Ant1	16.282	≥ 0.5	Pass
NVNT	g	2437	Ant1	16.282	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.31	≥ 0.5	Pass
NVNT	n20	2412	Ant1	17.011	≥ 0.5	Pass
NVNT	n20	2437	Ant1	16.853	≥ 0.5	Pass
NVNT	n20	2462	Ant1	16.579	≥ 0.5	Pass

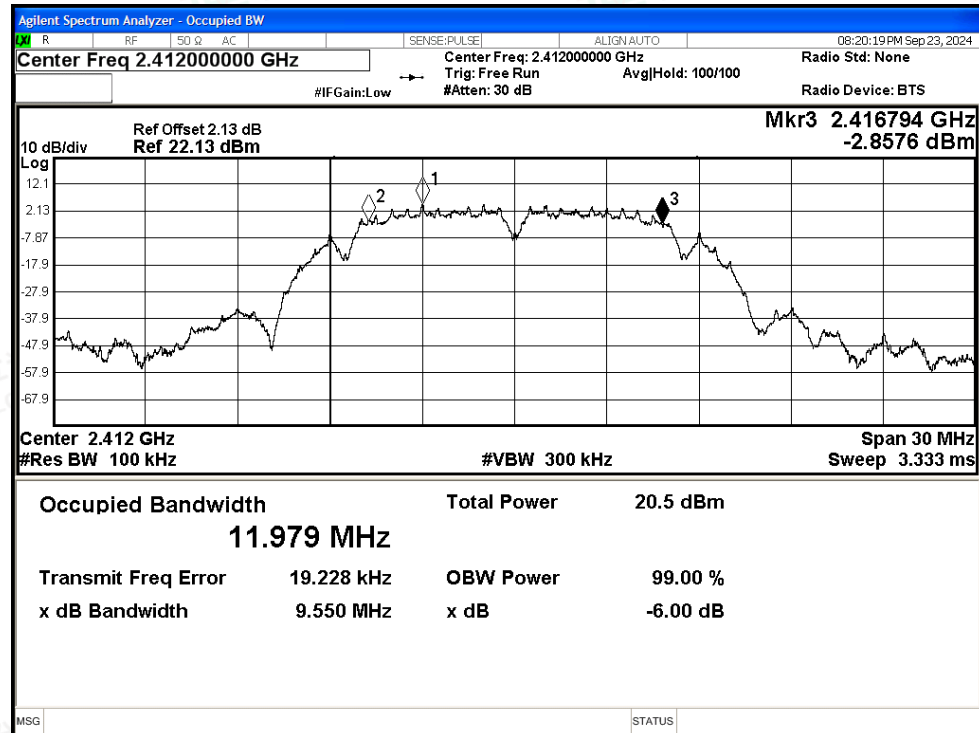


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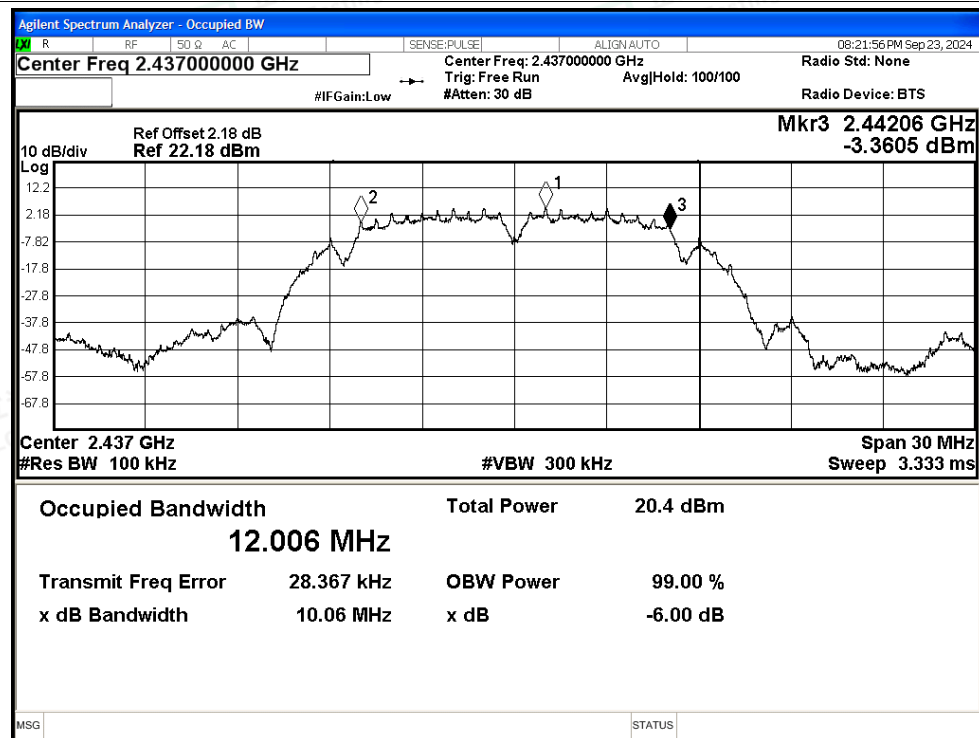


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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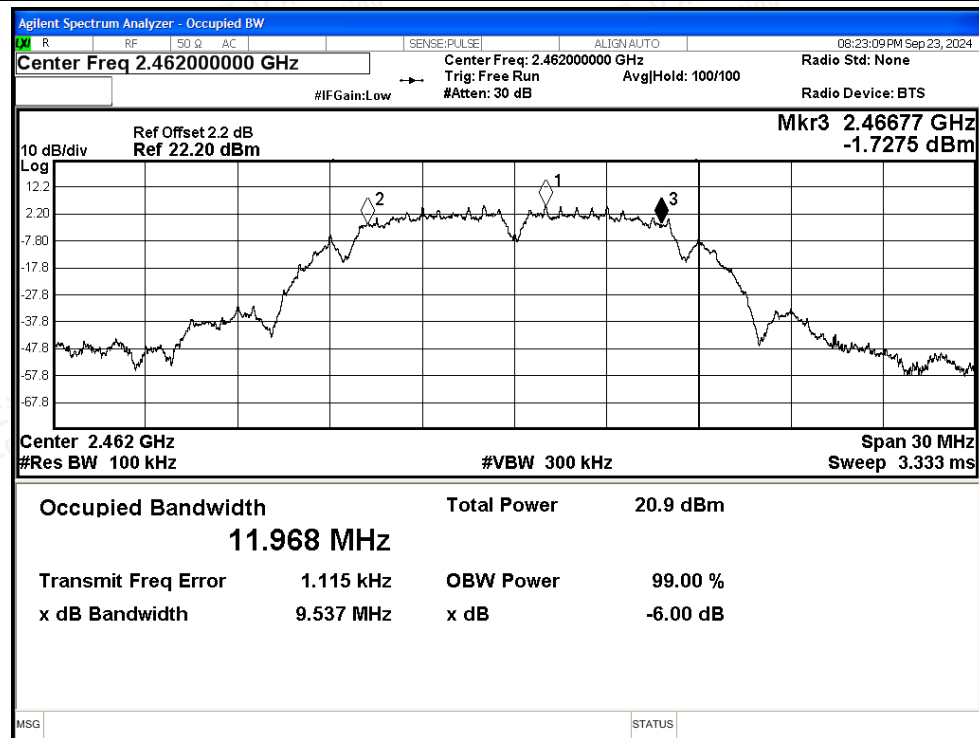
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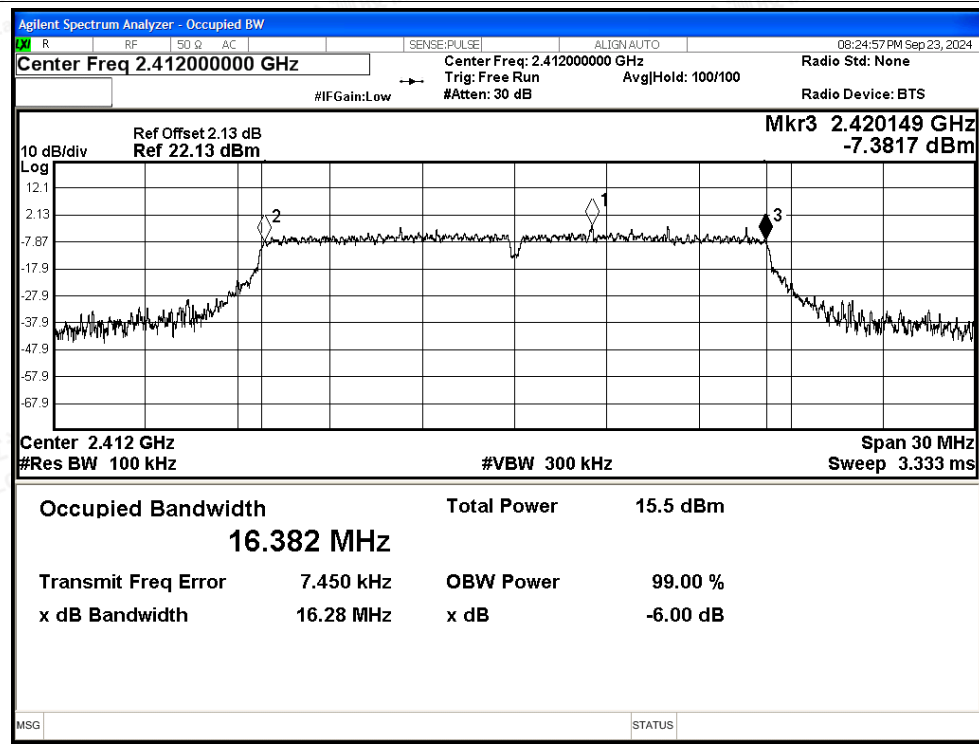
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



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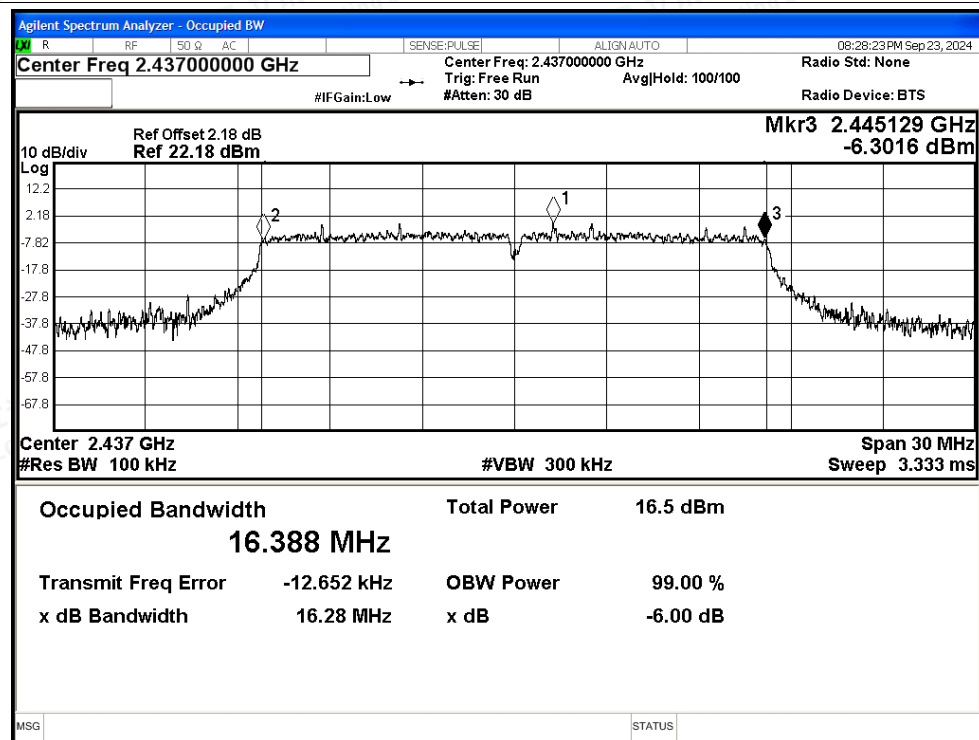
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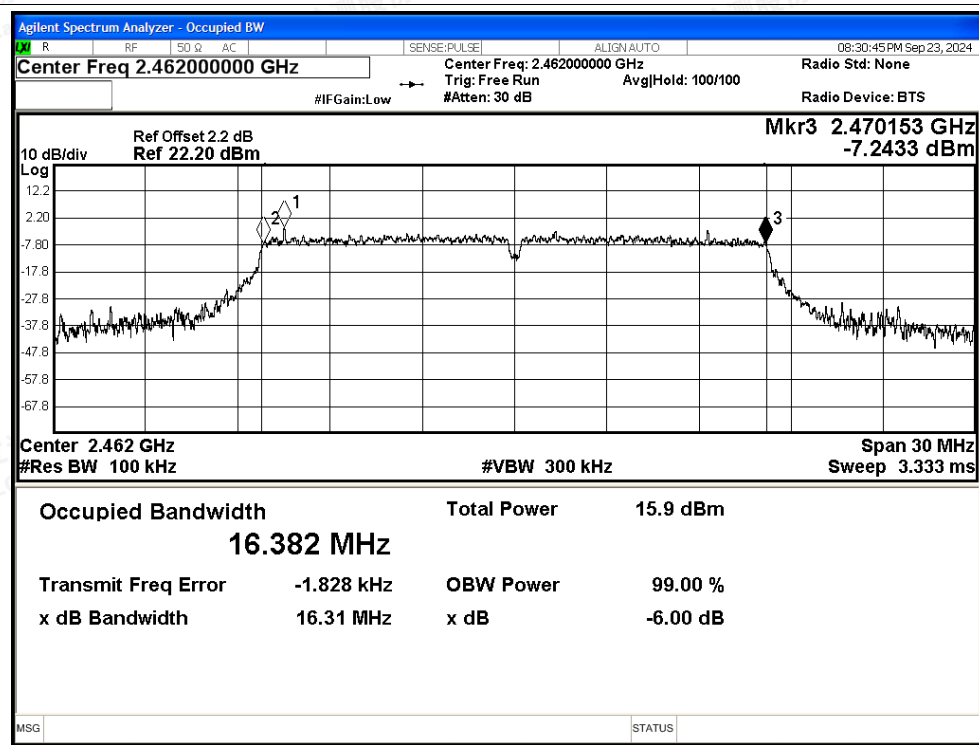
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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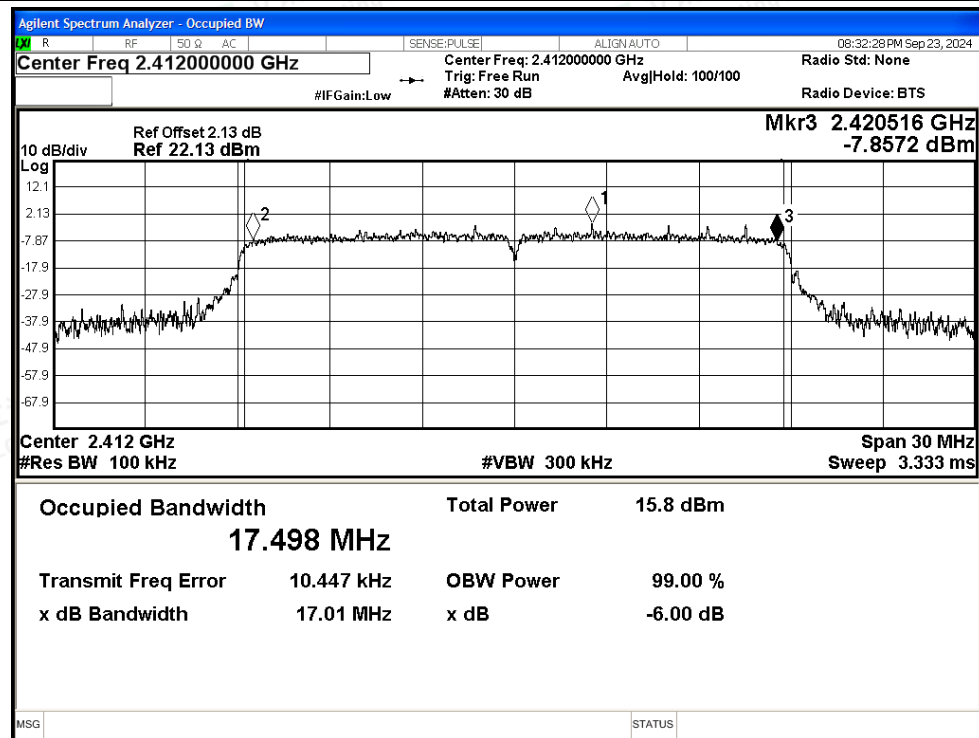
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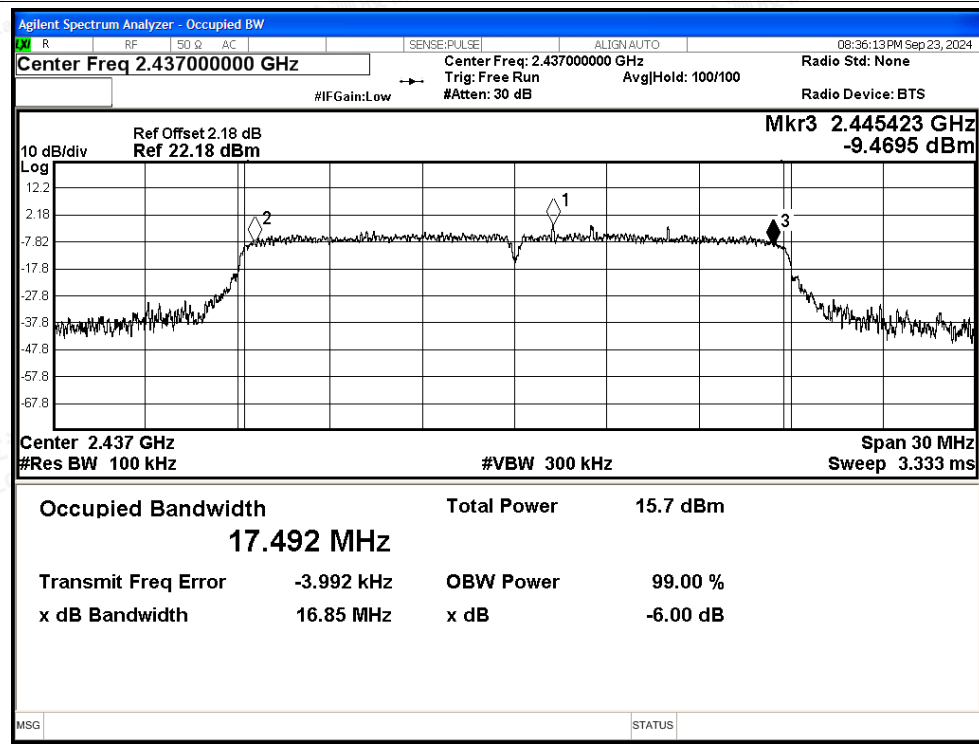
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-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1

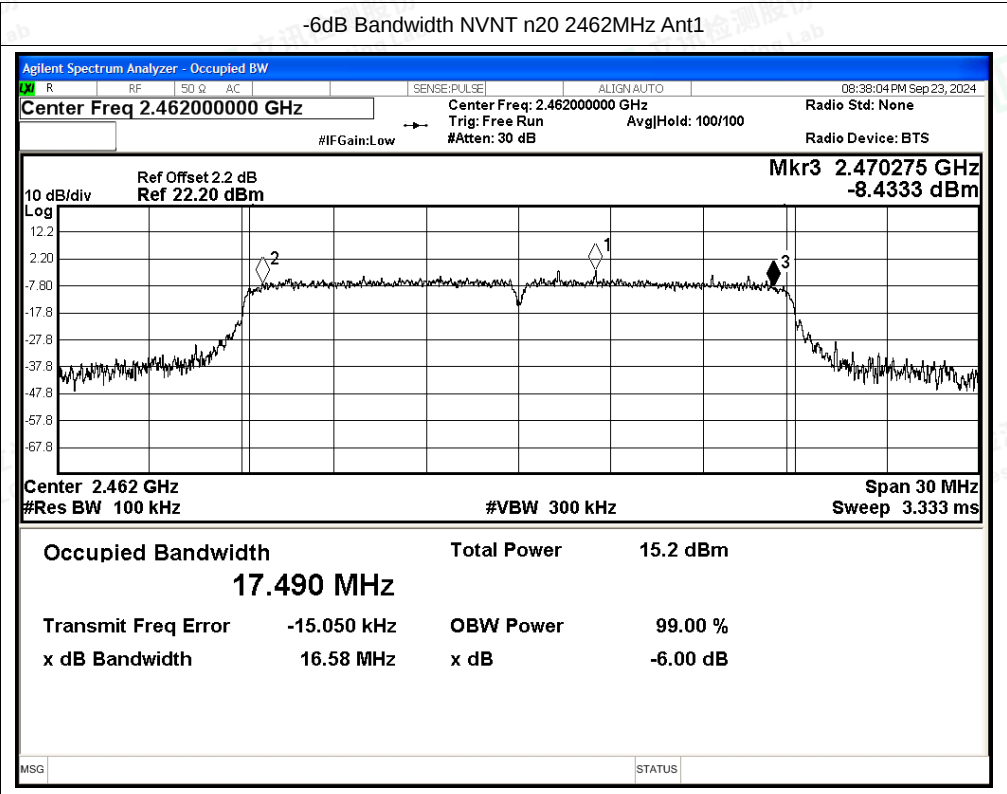


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B.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.47	30	Pass
NVNT	b	2437	Ant1	15.28	30	Pass
NVNT	b	2462	Ant1	15.79	30	Pass
NVNT	g	2412	Ant1	14.23	30	Pass
NVNT	g	2437	Ant1	15.21	30	Pass
NVNT	g	2462	Ant1	14.78	30	Pass
NVNT	n20	2412	Ant1	13.99	30	Pass
NVNT	n20	2437	Ant1	13.34	30	Pass
NVNT	n20	2462	Ant1	13.5	30	Pass



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B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-9.2	8	Pass
NVNT	b	2437	Ant1	-9.14	8	Pass
NVNT	b	2462	Ant1	-8.55	8	Pass
NVNT	g	2412	Ant1	-16.14	8	Pass
NVNT	g	2437	Ant1	-15.42	8	Pass
NVNT	g	2462	Ant1	-16.27	8	Pass
NVNT	n20	2412	Ant1	-16.32	8	Pass
NVNT	n20	2437	Ant1	-15.56	8	Pass
NVNT	n20	2462	Ant1	-15.87	8	Pass



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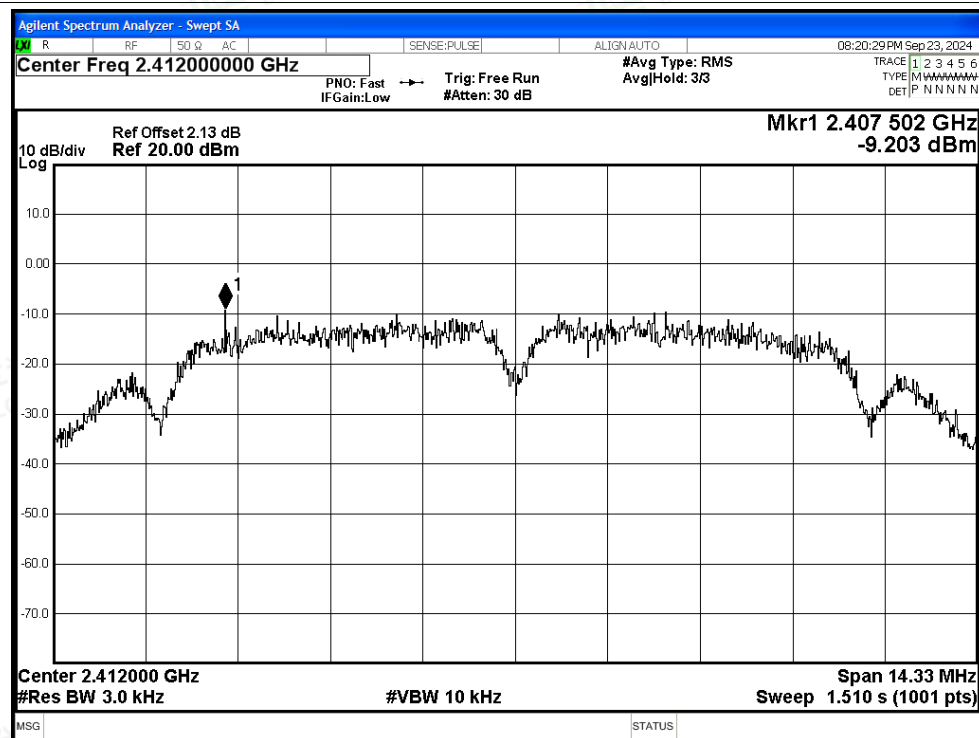
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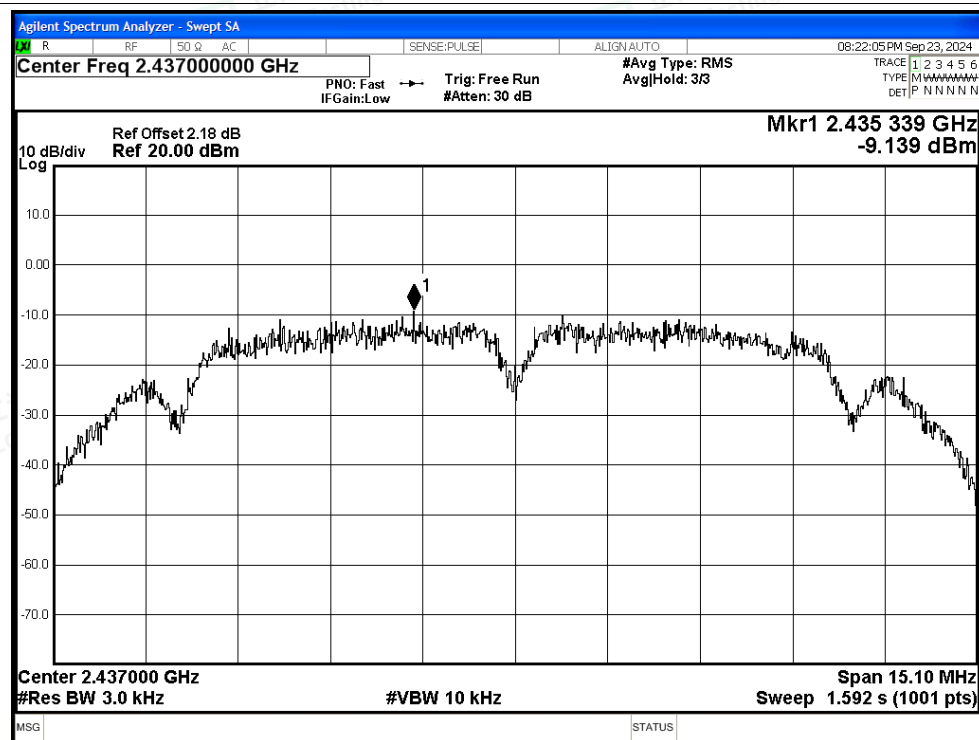


Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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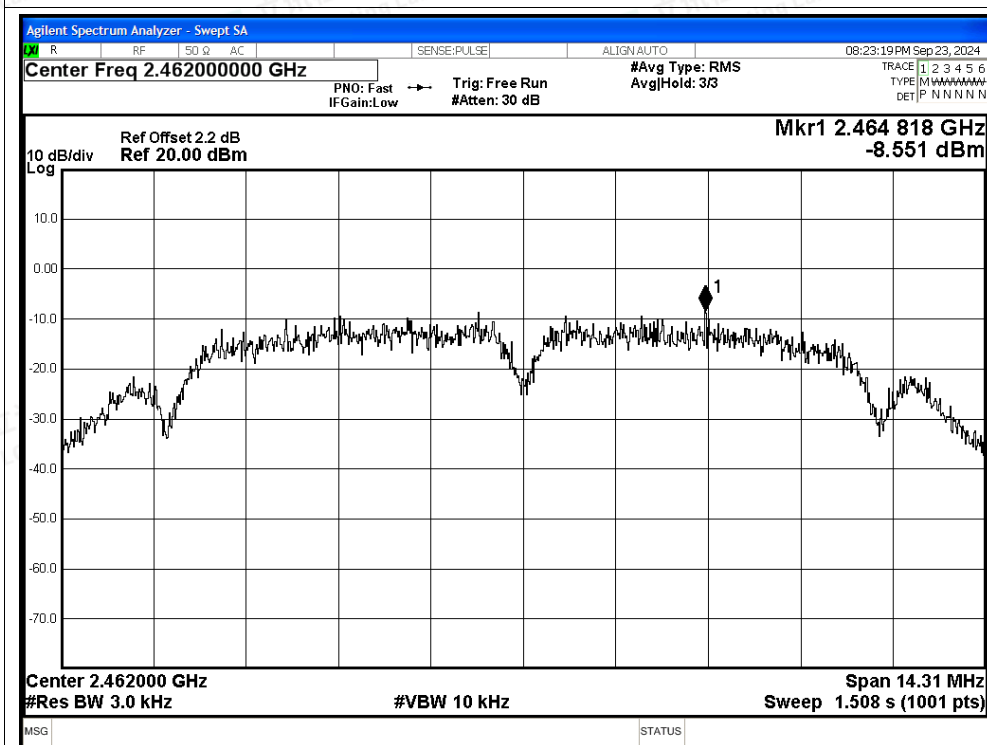
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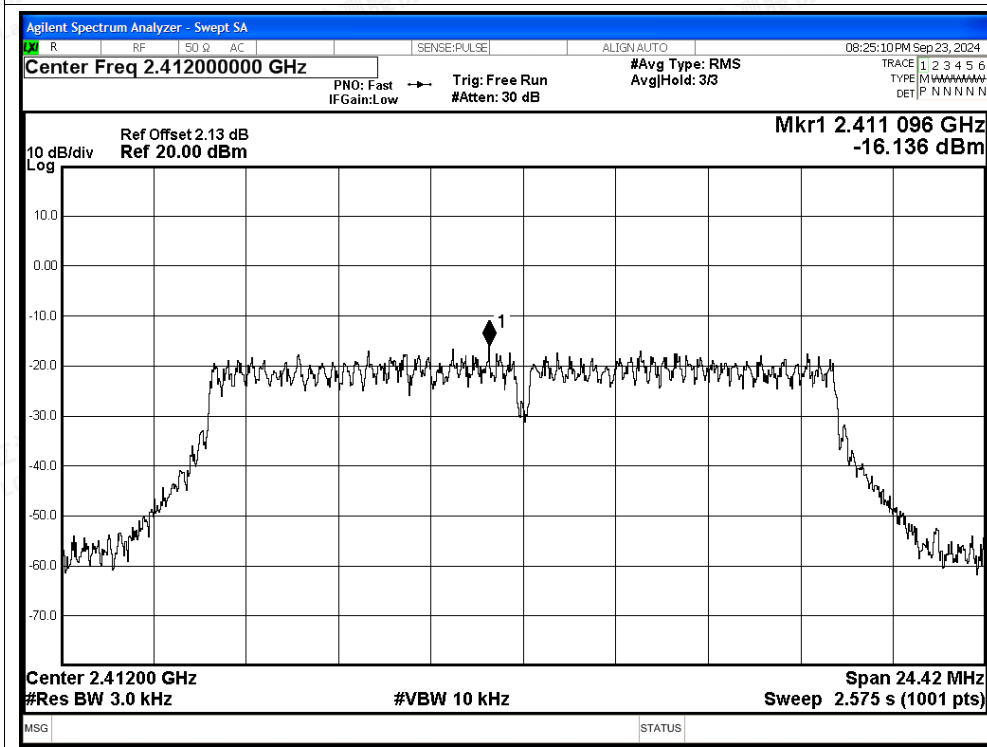
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



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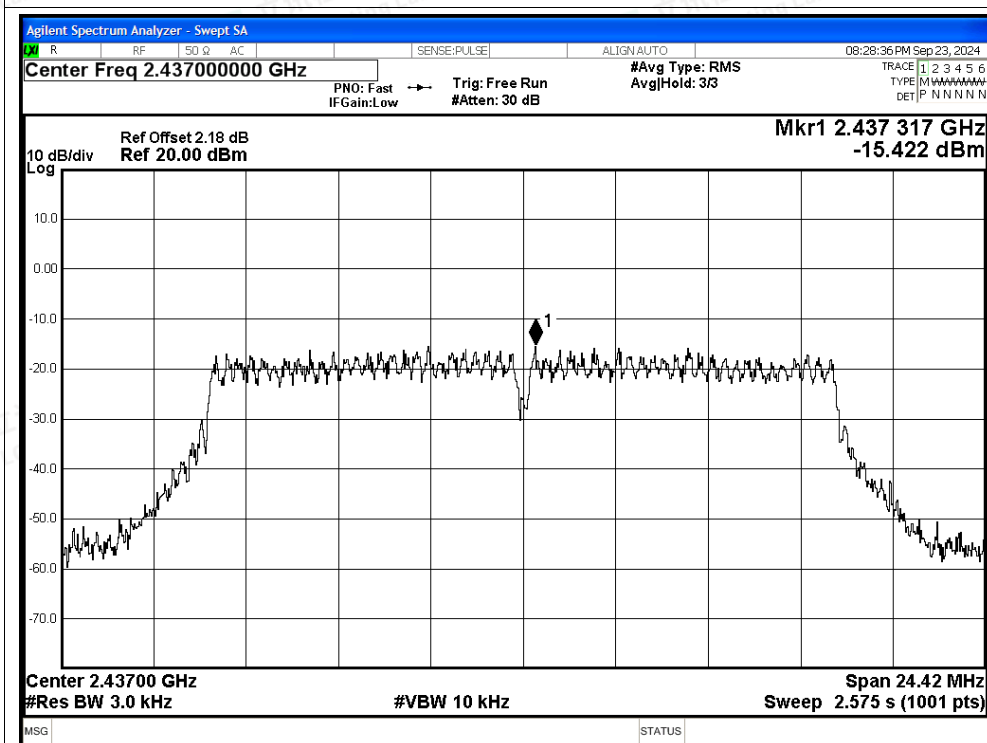
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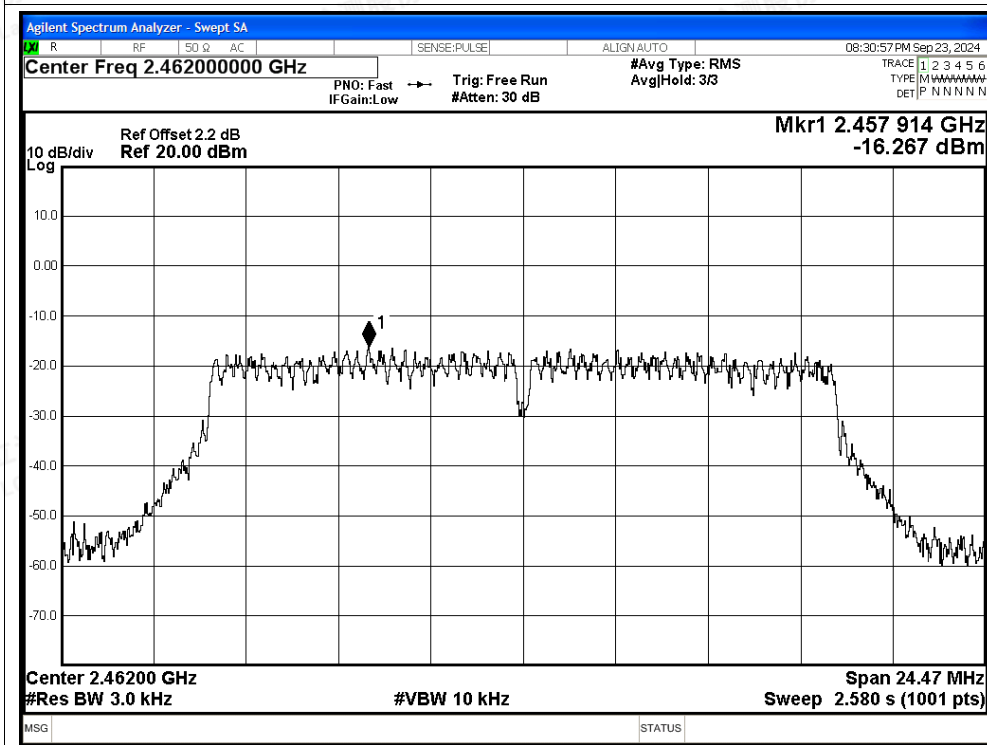
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

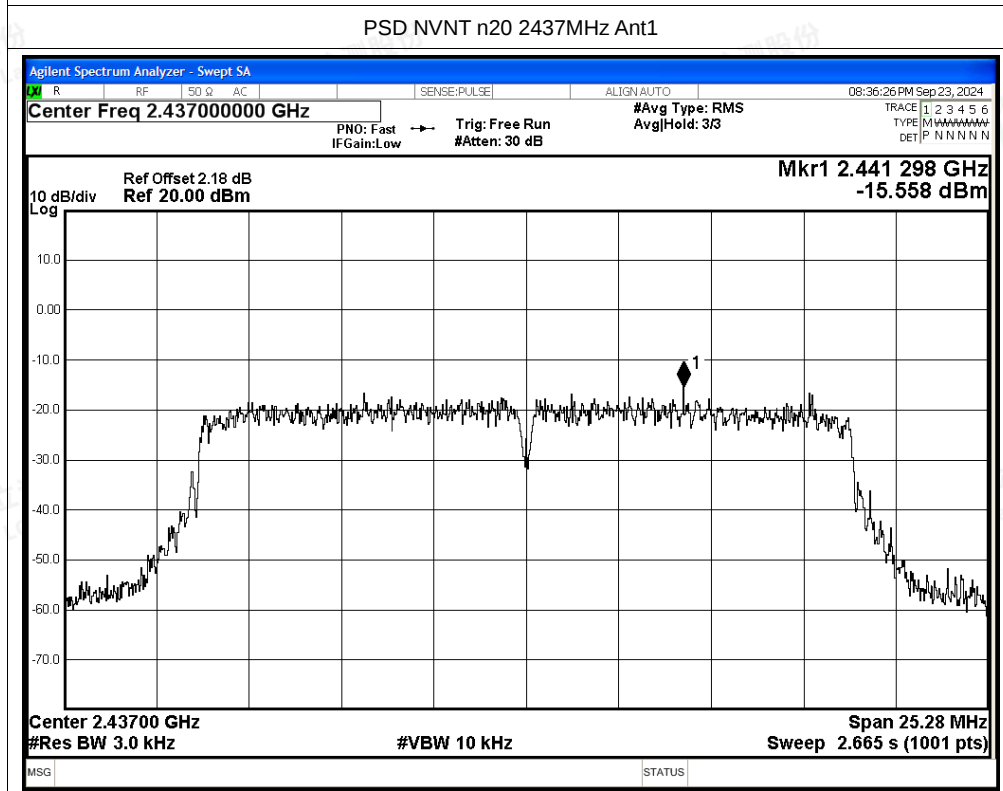
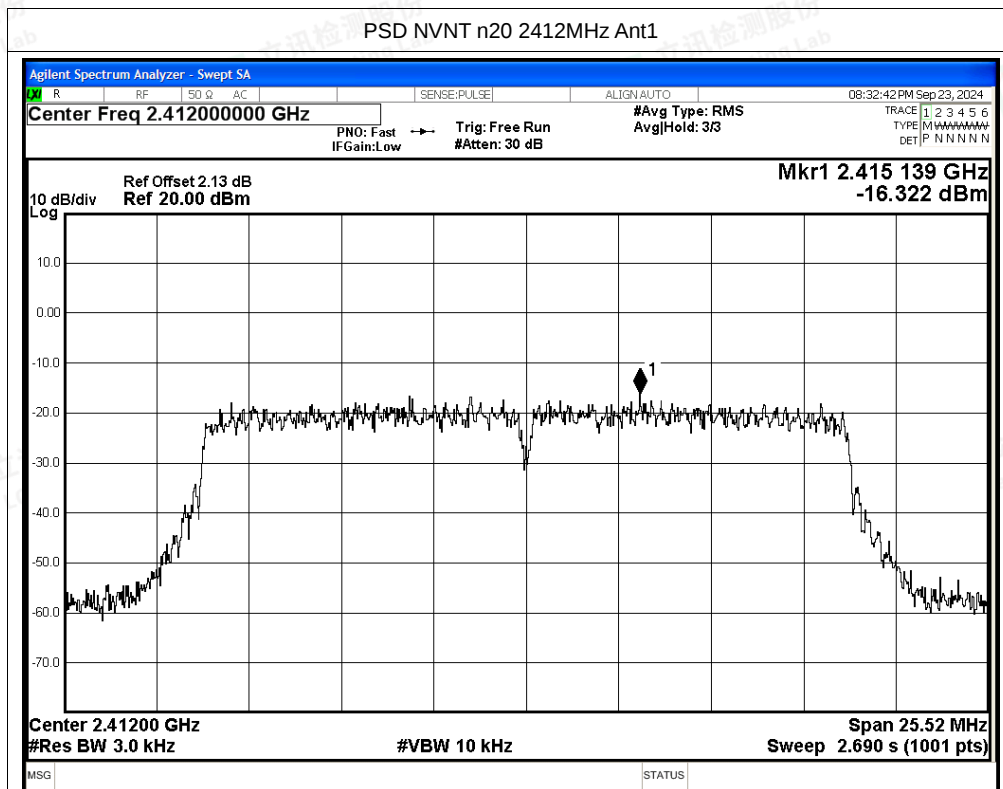


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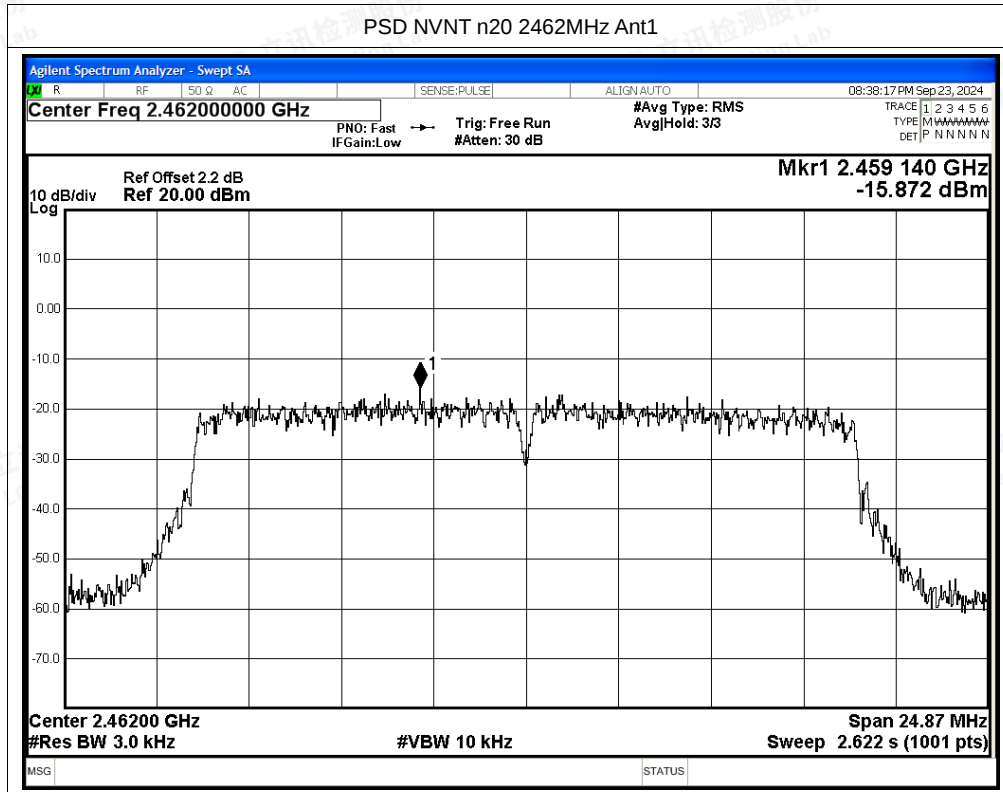


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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-49	-20	Pass
NVNT	b	2462	Ant1	-54.61	-20	Pass
NVNT	g	2412	Ant1	-30.92	-20	Pass
NVNT	g	2462	Ant1	-44.65	-20	Pass
NVNT	n20	2412	Ant1	-29.44	-20	Pass
NVNT	n20	2462	Ant1	-44.28	-20	Pass



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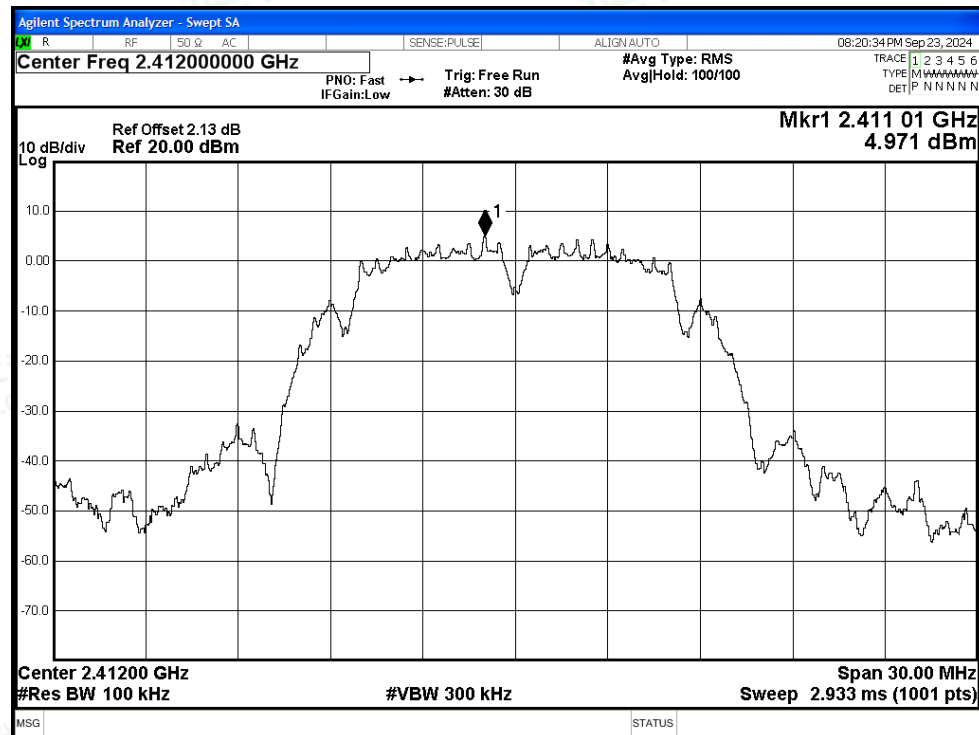
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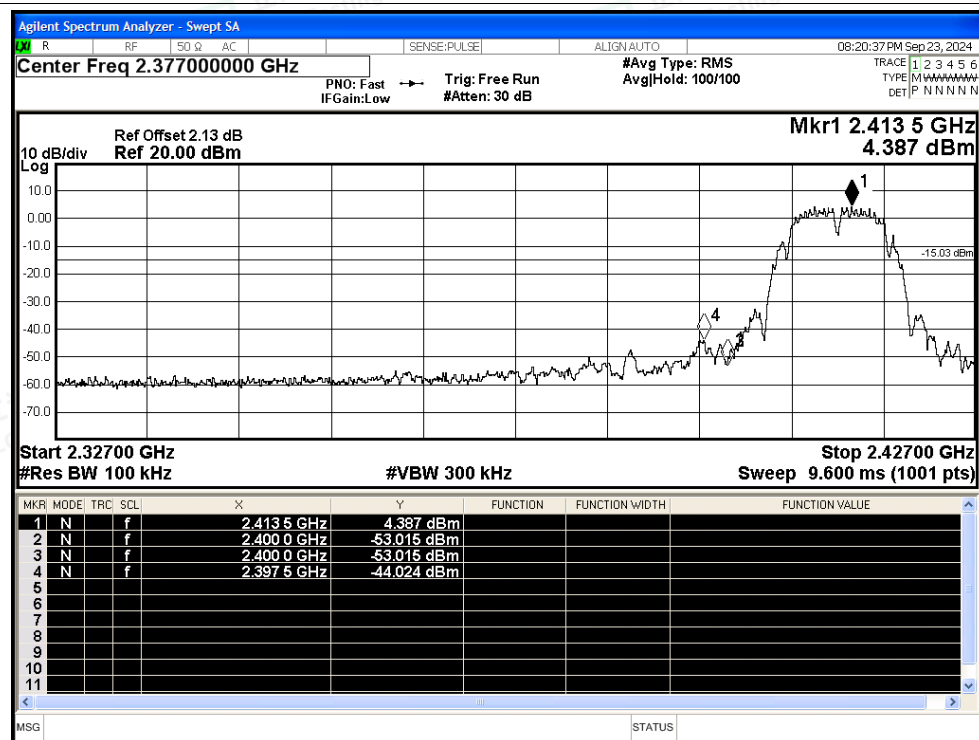


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



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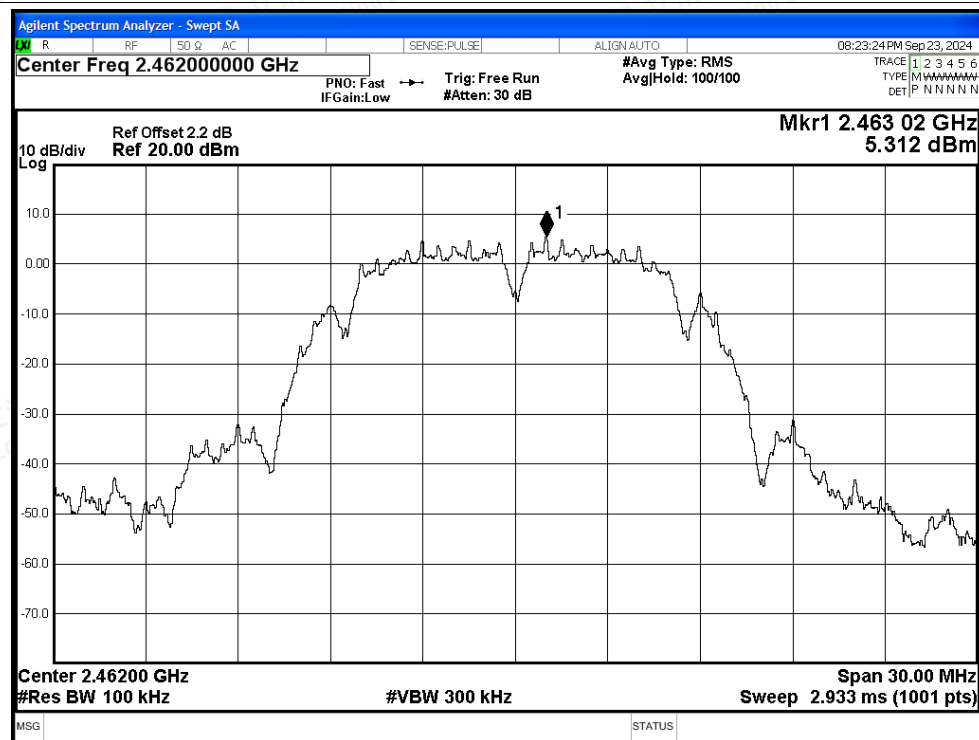
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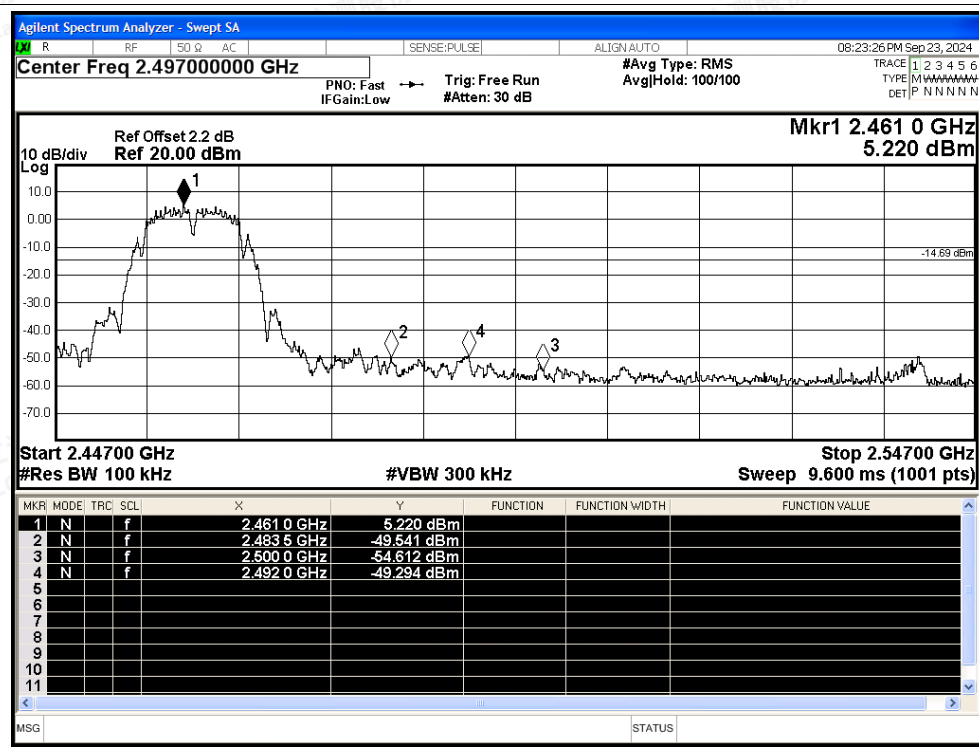
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Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission



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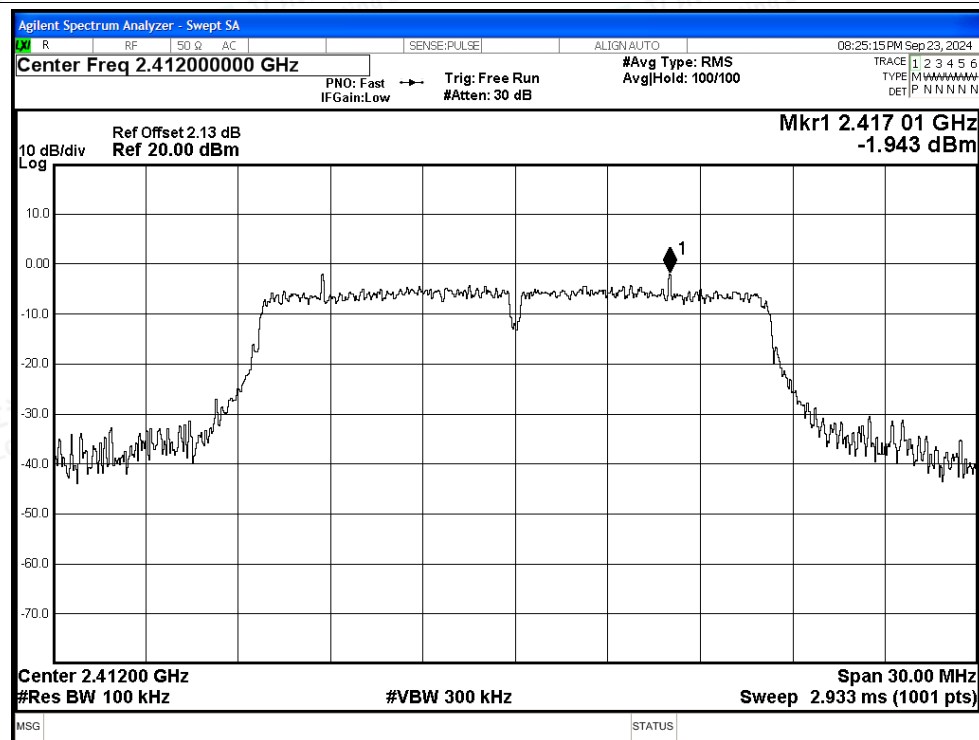
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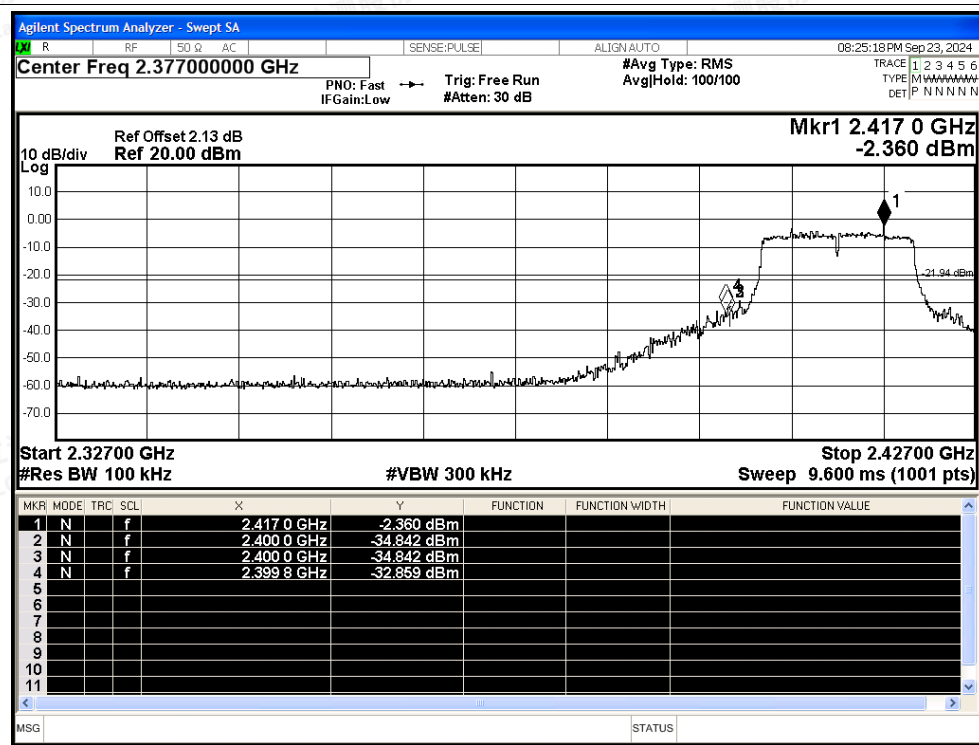
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Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



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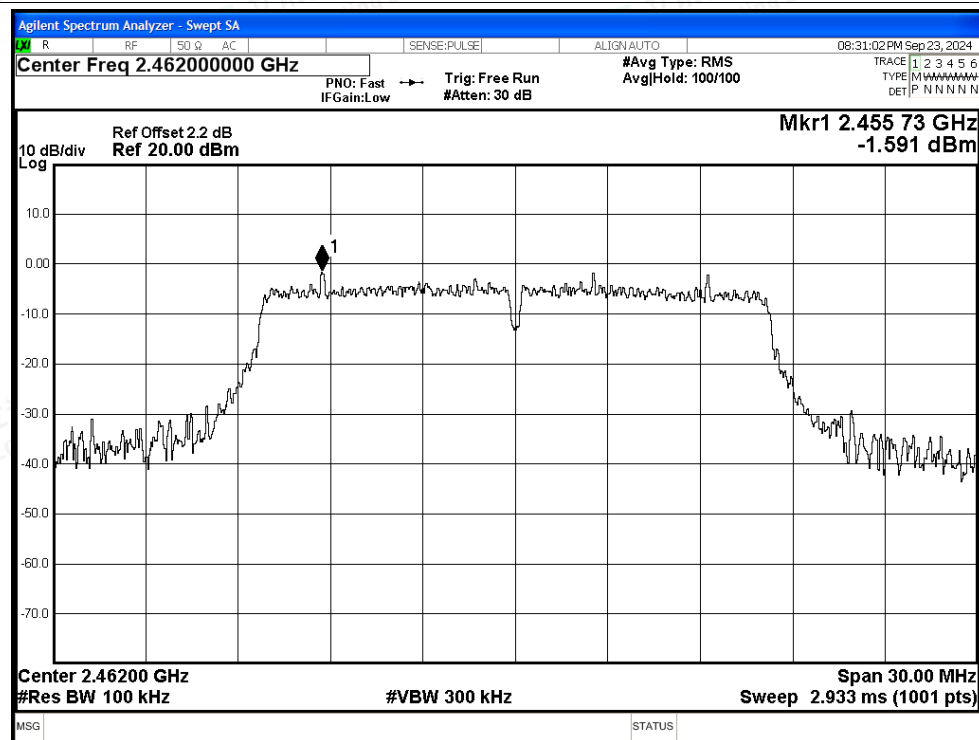
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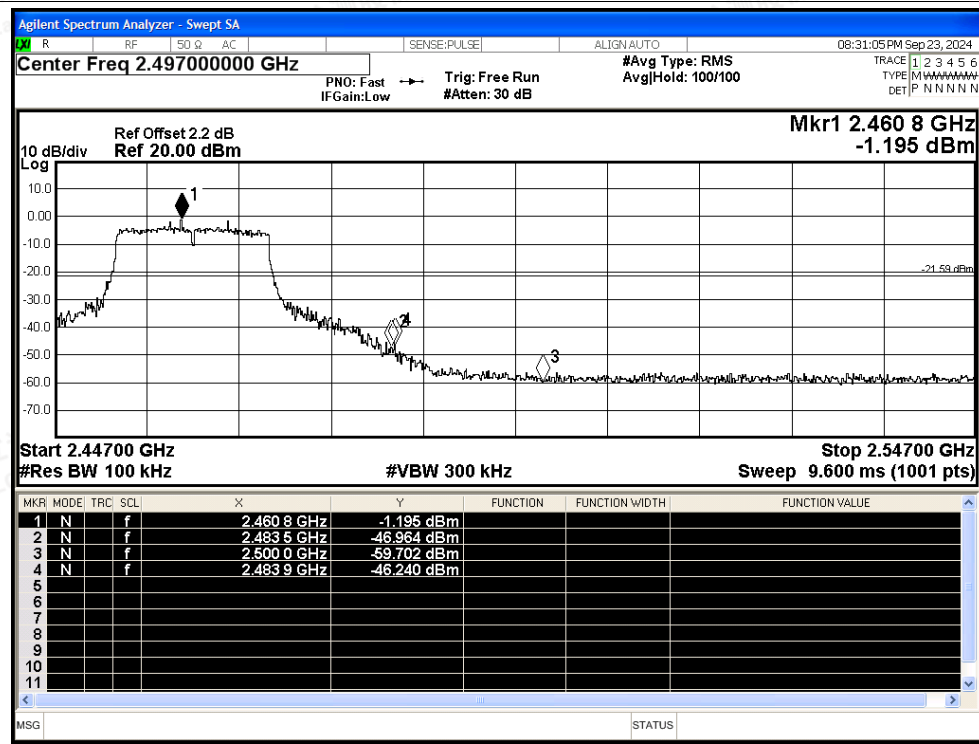
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Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



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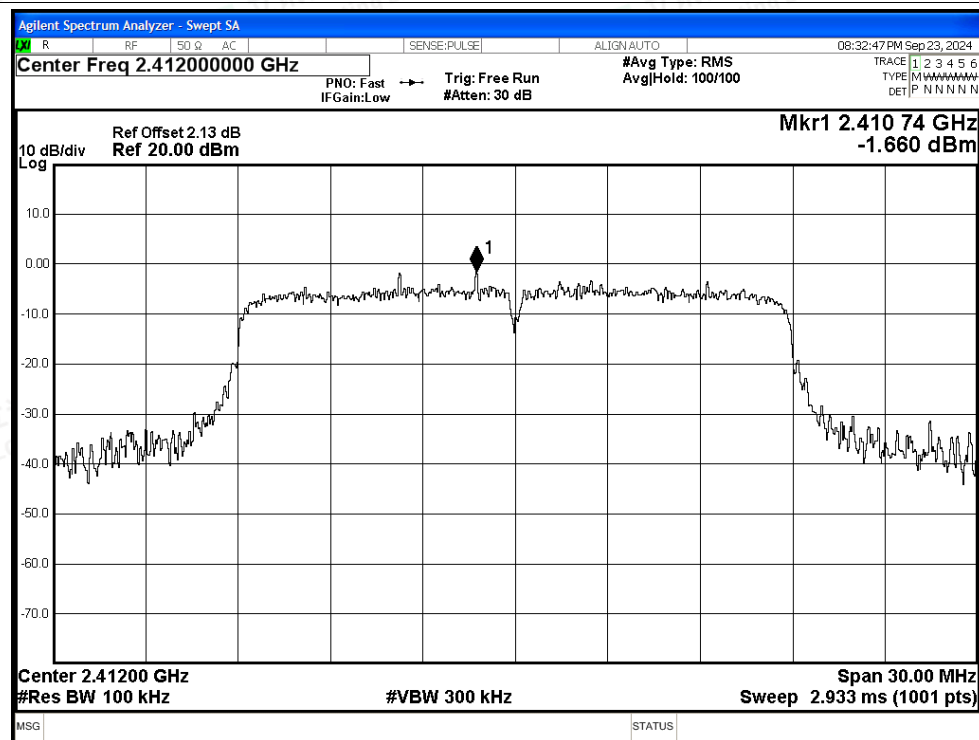
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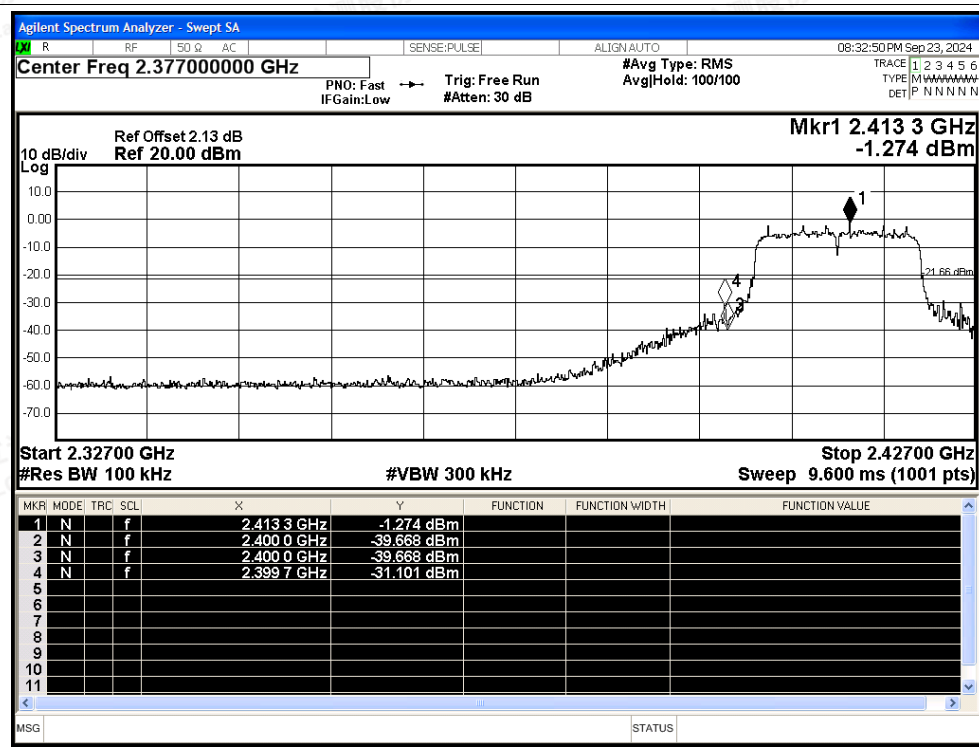
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Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



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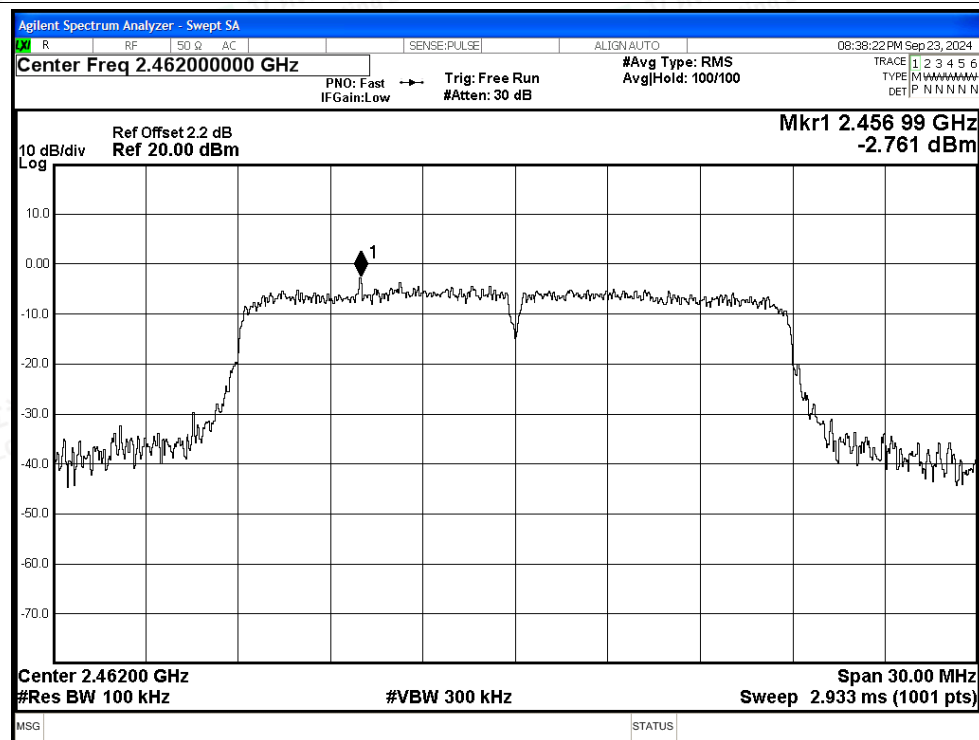
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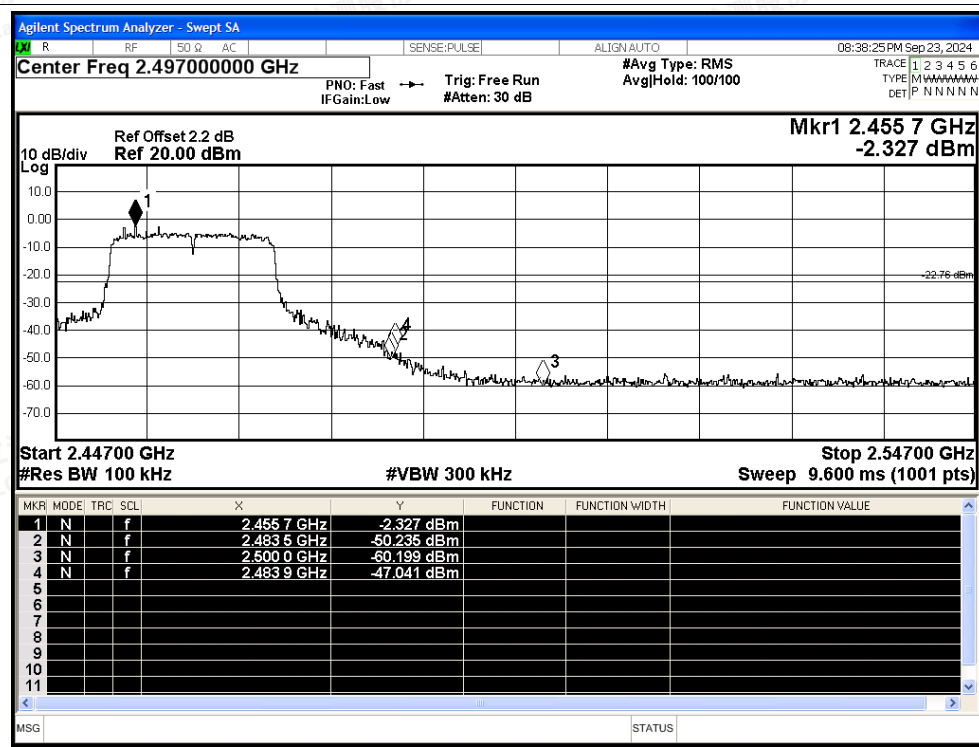
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Band Edge NVNT n20 2462MHz Ant1 Ref



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	-51.01	-20	Pass
NVNT	b	2437	Ant1	-49.83	-20	Pass
NVNT	b	2462	Ant1	-51.82	-20	Pass
NVNT	g	2412	Ant1	-44.12	-20	Pass
NVNT	g	2437	Ant1	-46.69	-20	Pass
NVNT	g	2462	Ant1	-45.79	-20	Pass
NVNT	n20	2412	Ant1	-44.4	-20	Pass
NVNT	n20	2437	Ant1	-43.89	-20	Pass
NVNT	n20	2462	Ant1	-44.29	-20	Pass

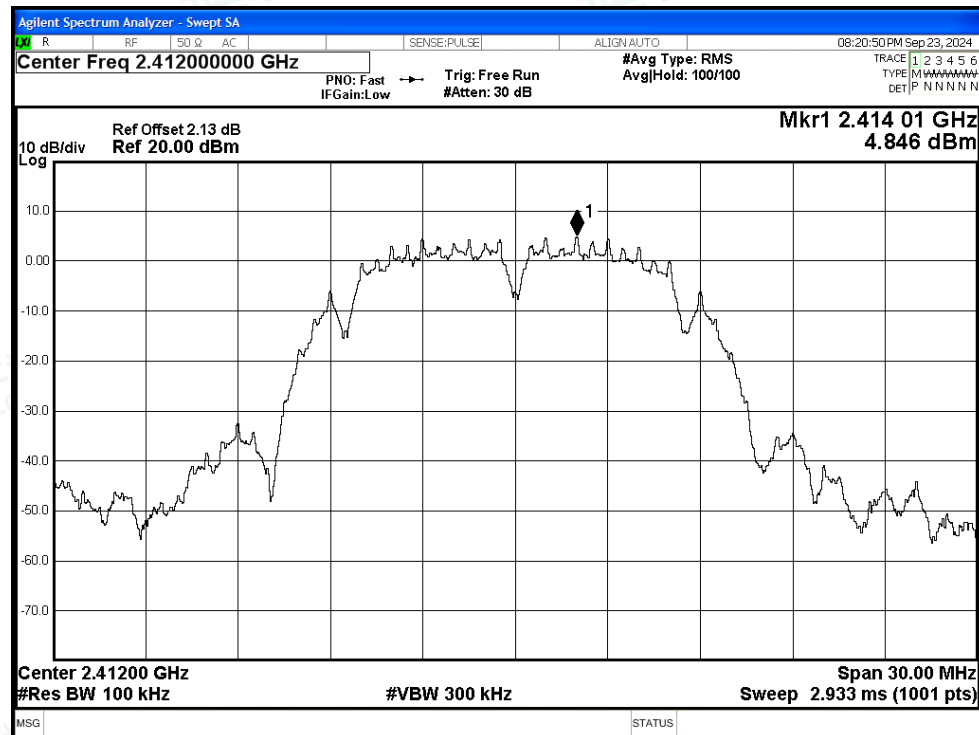


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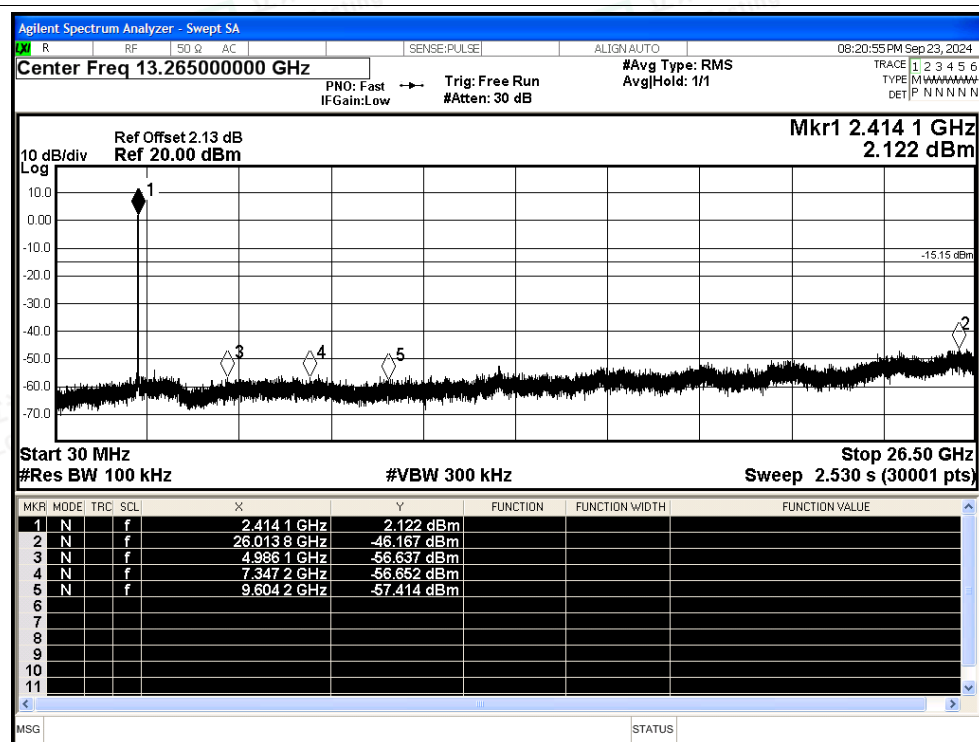


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



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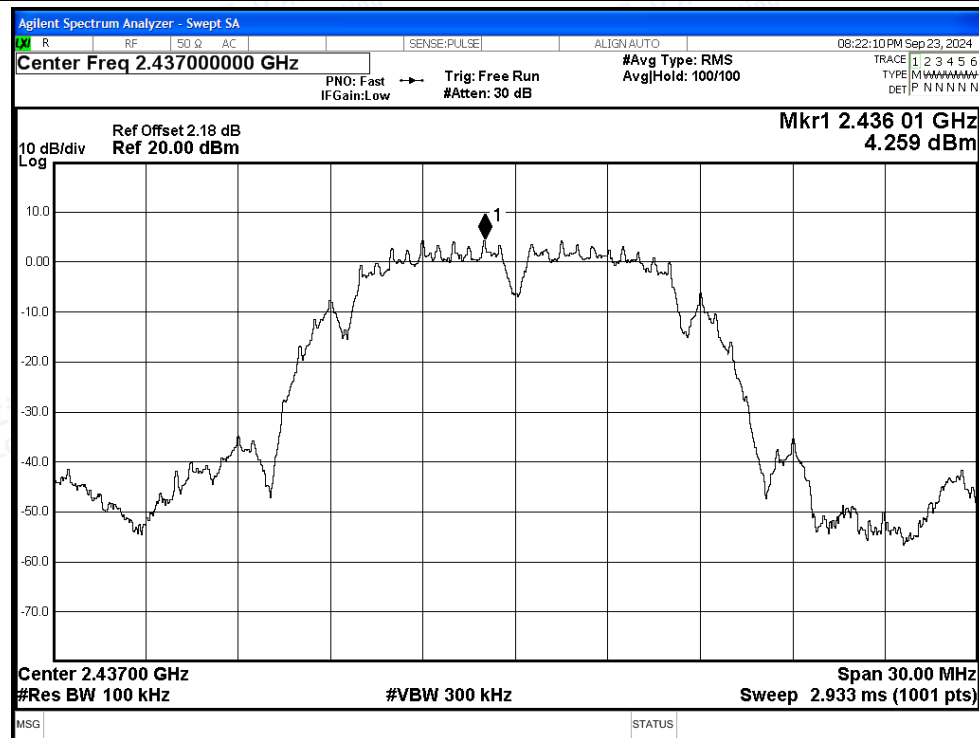
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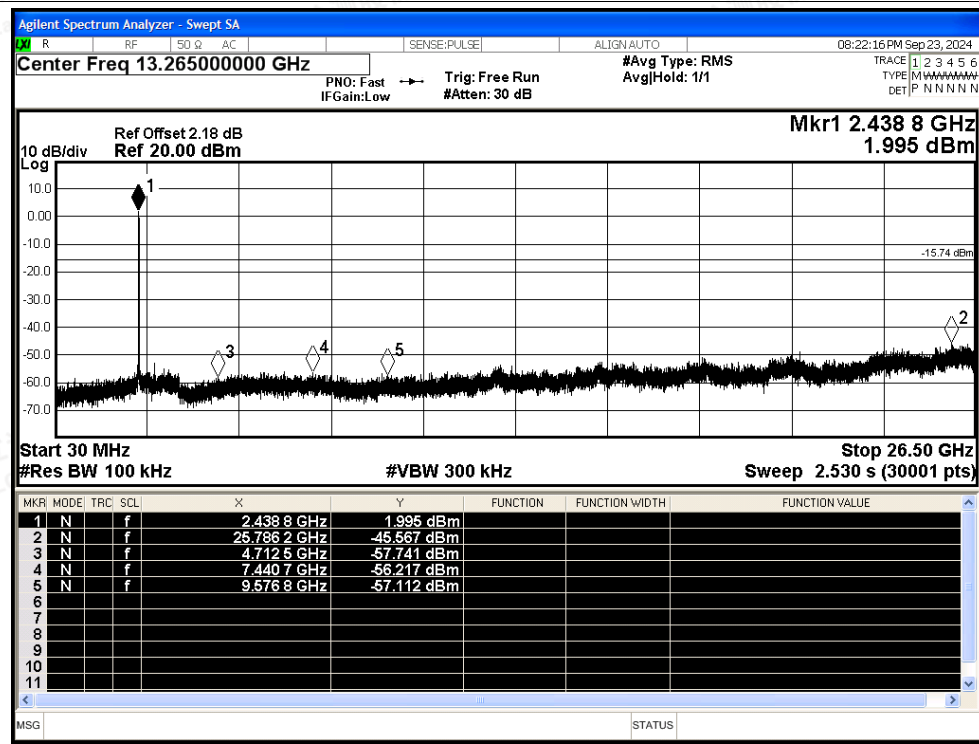
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Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



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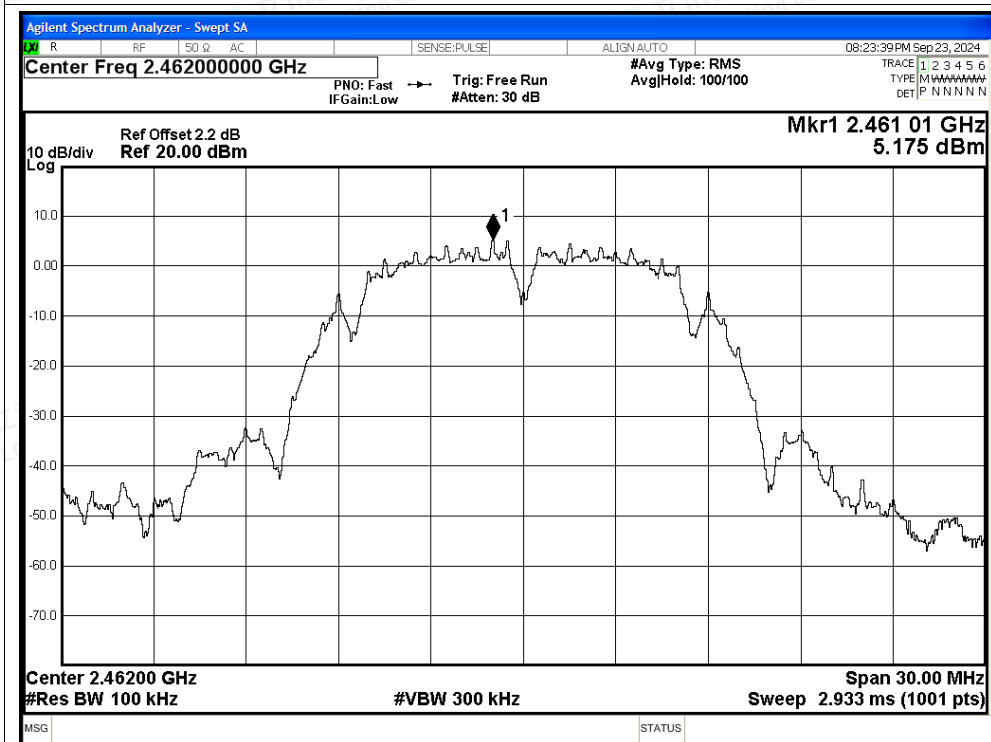
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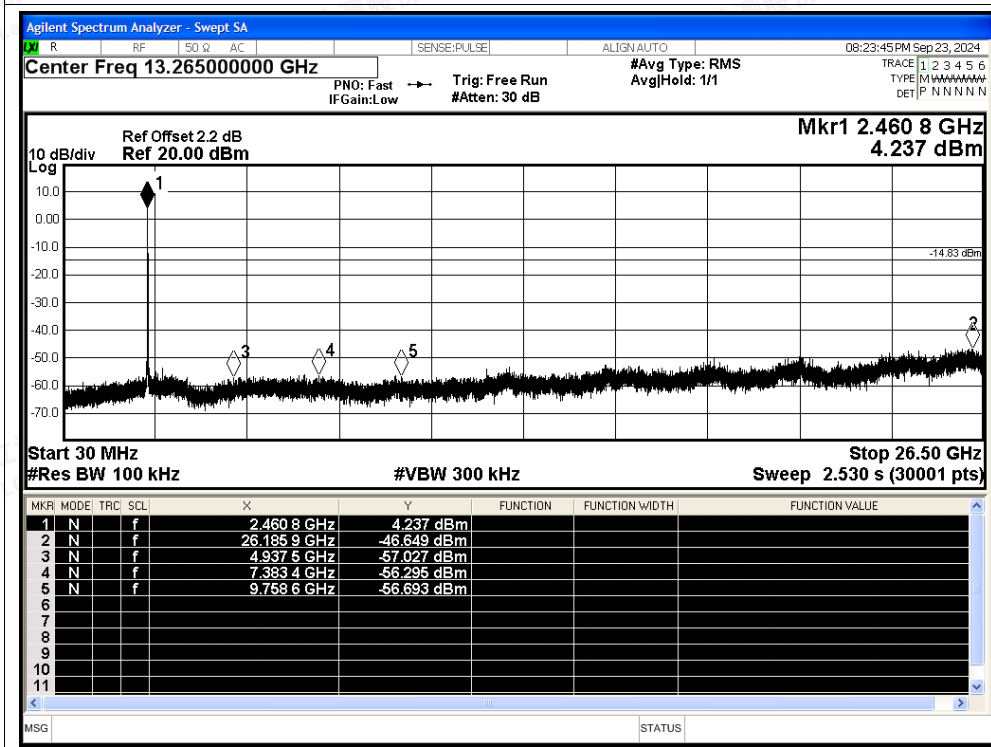
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Tx. Spurious NVNT b 2462MHz Ant1 Emission



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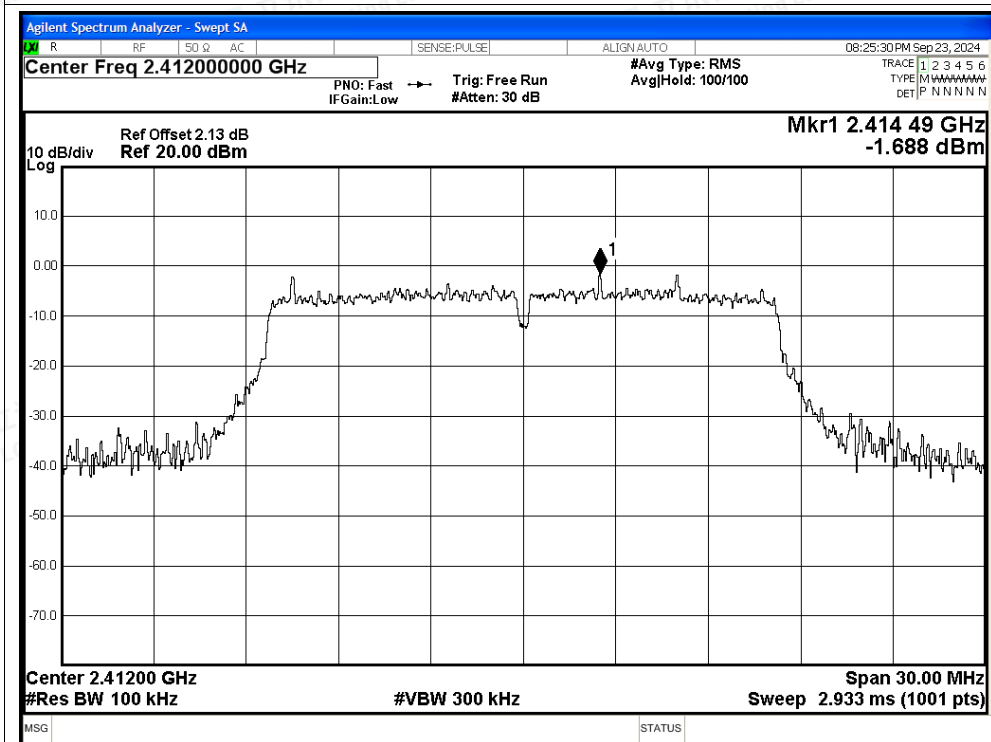
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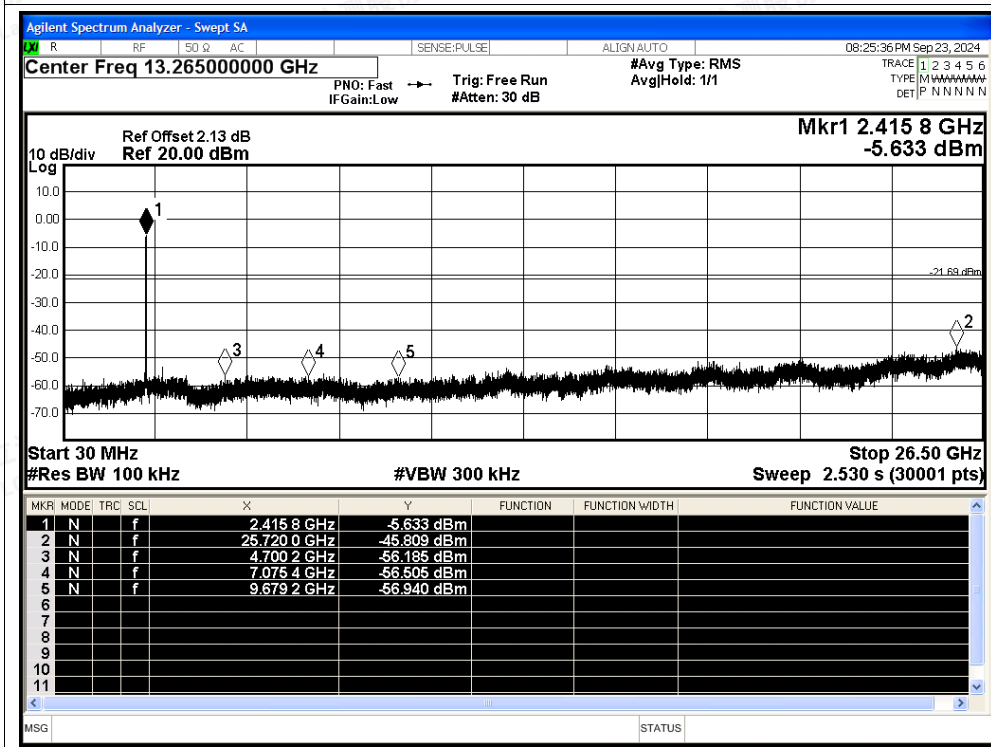
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Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission



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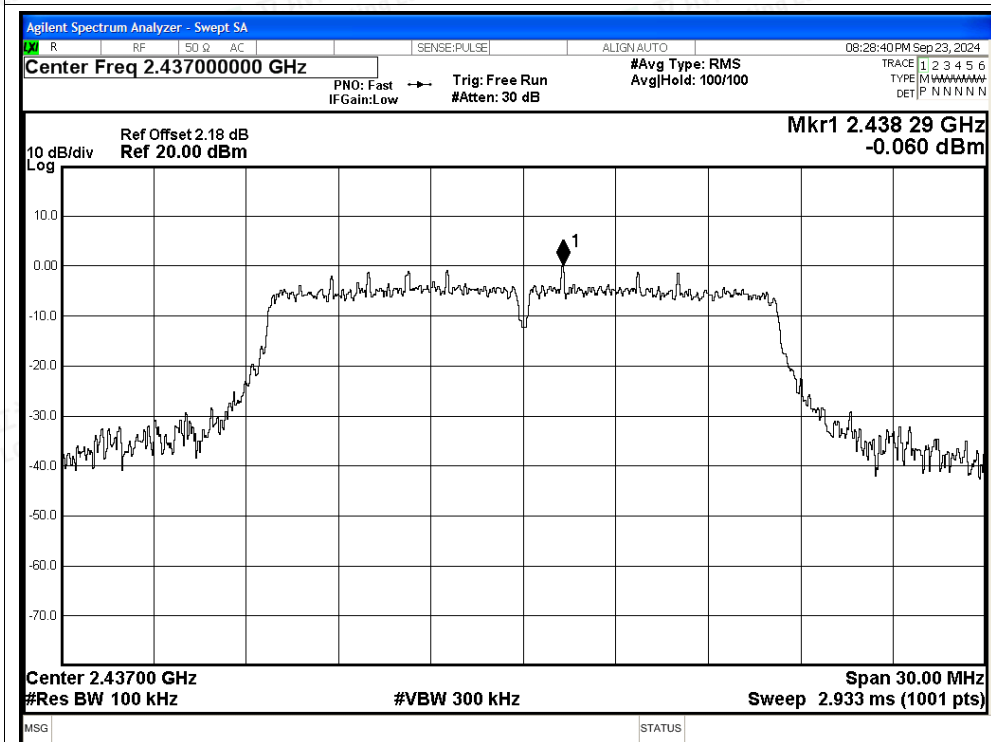
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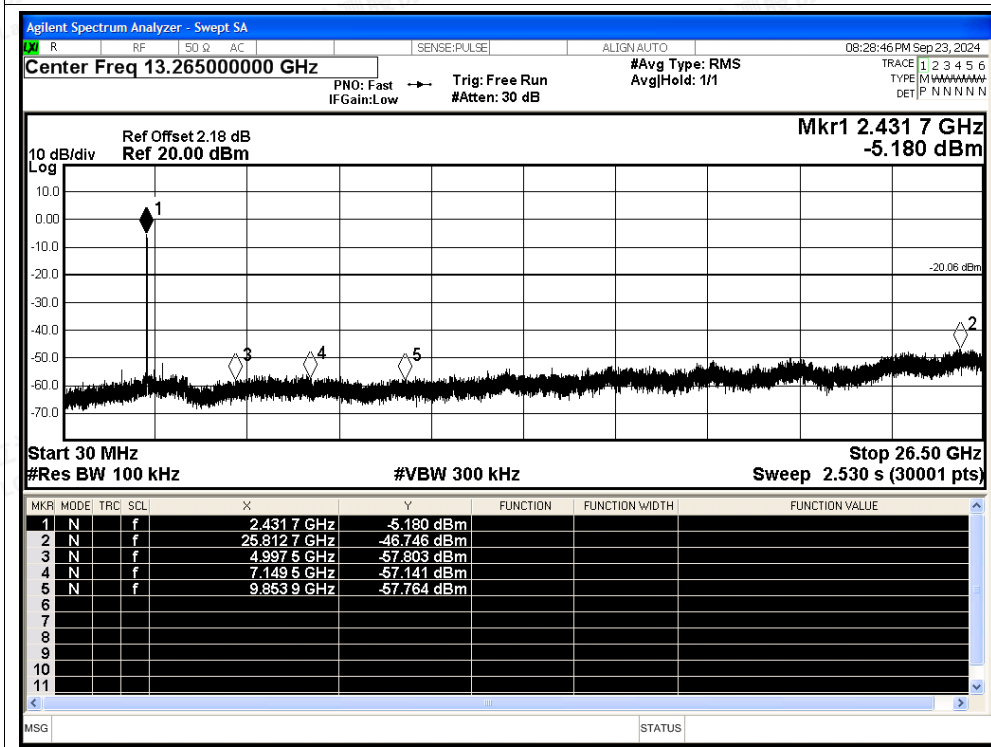
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Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission



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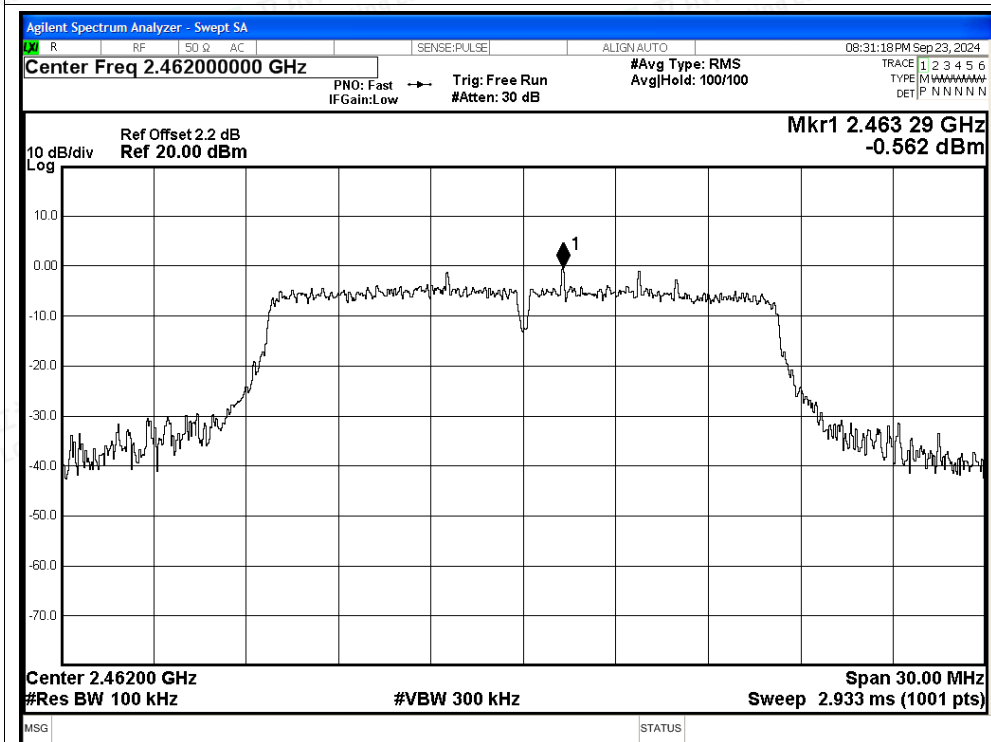
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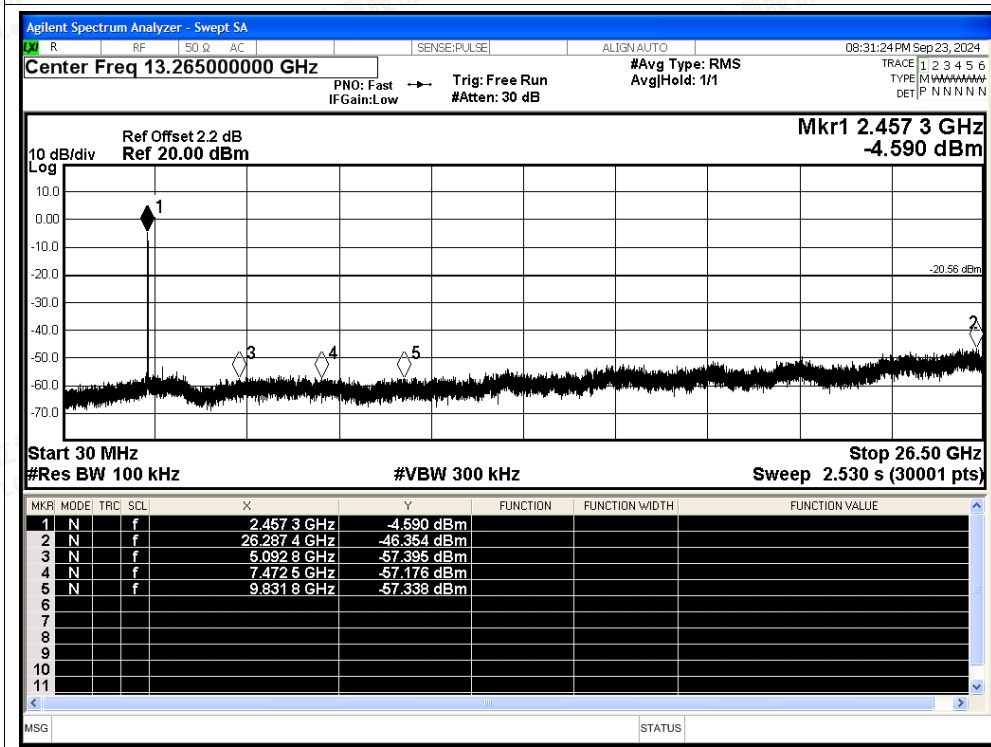
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Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission



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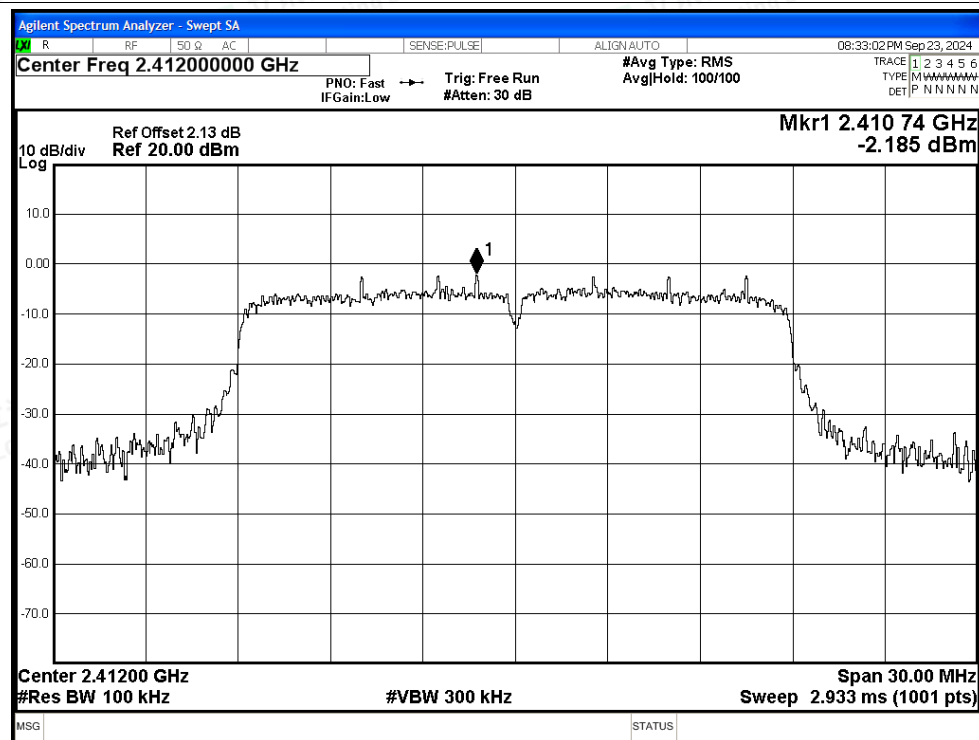
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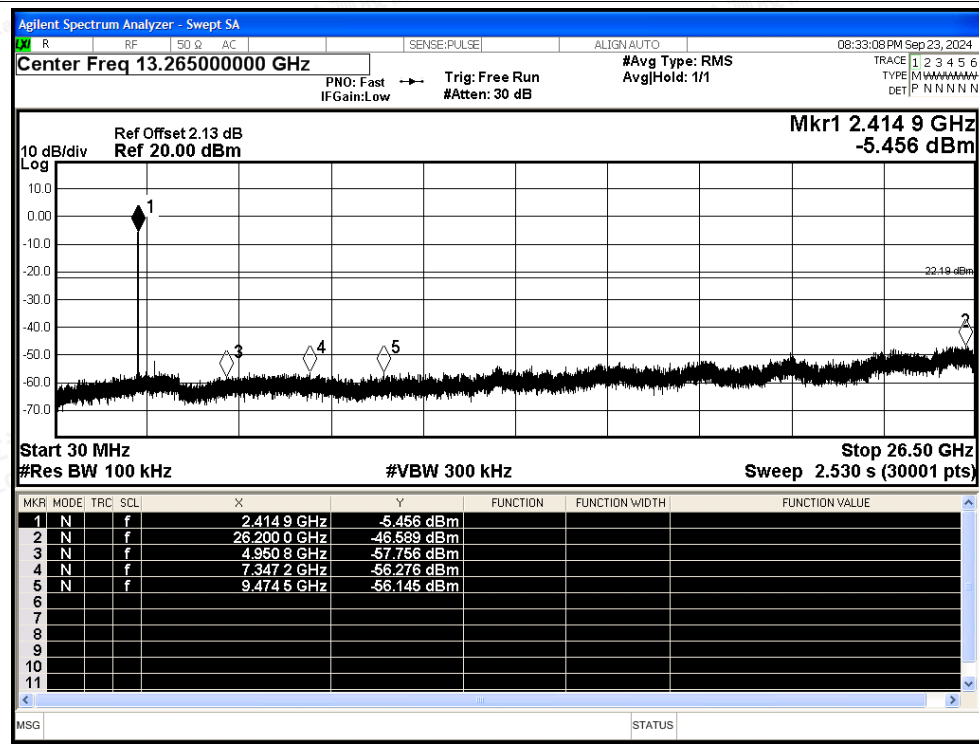
Scan code to check authenticity



Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission



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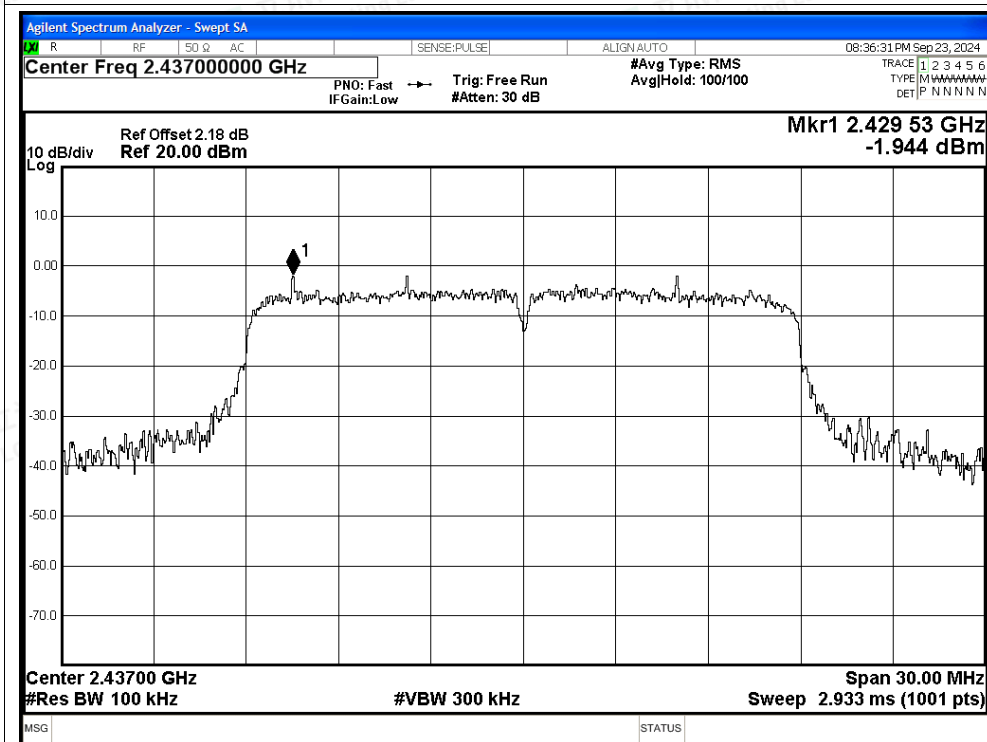
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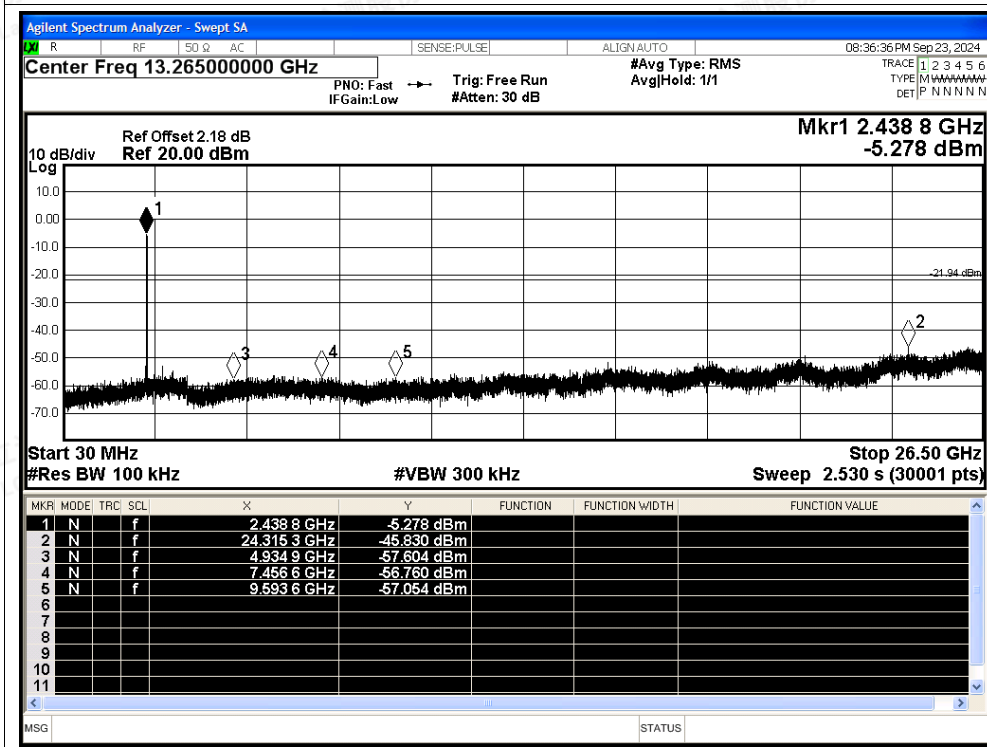
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Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

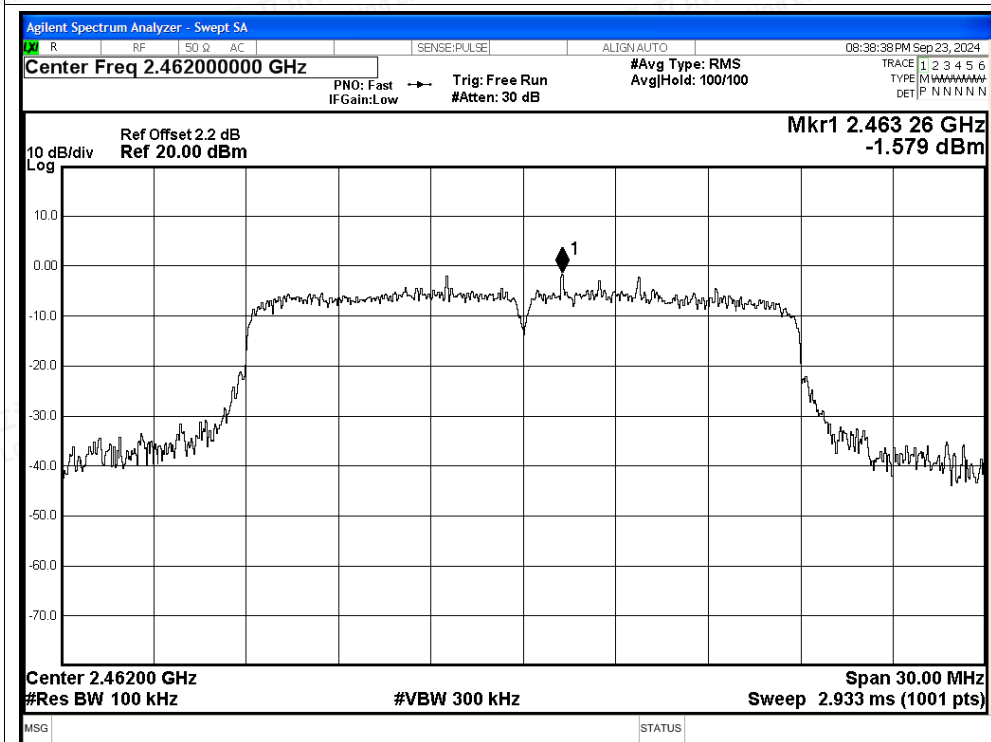
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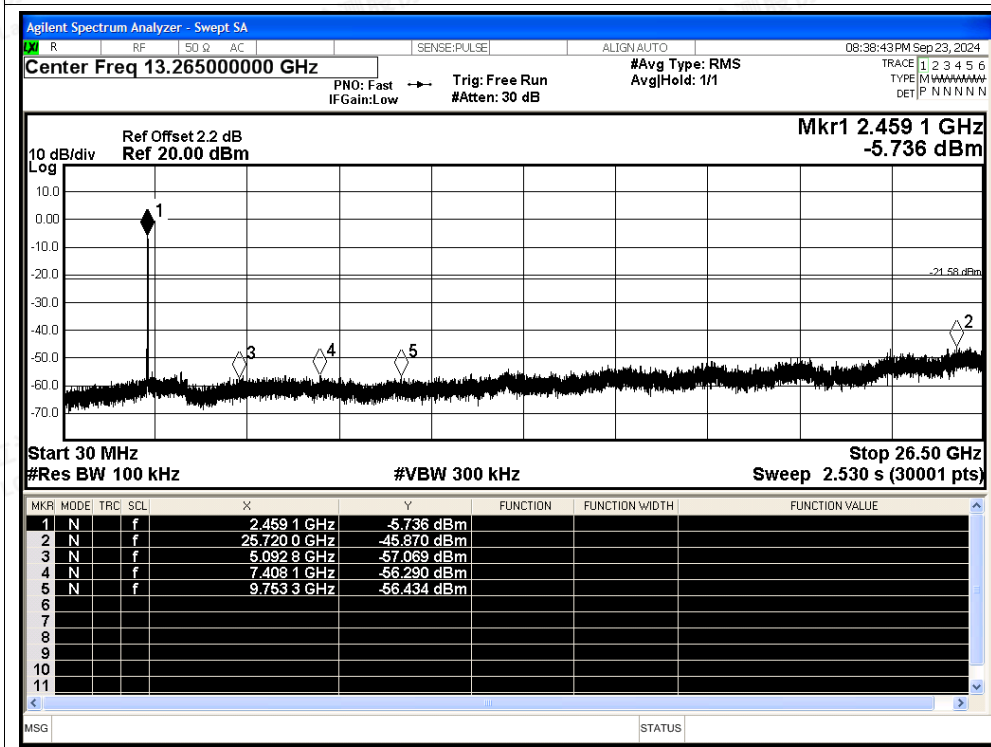
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Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission



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B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	96.54	0.15	0.15
NVNT	b	2437	Ant1	97.69	0.1	0.15
NVNT	b	2462	Ant1	97.37	0.12	0.15
NVNT	g	2412	Ant1	91.19	0.4	0.37
NVNT	g	2437	Ant1	91.13	0.4	0.37
NVNT	g	2462	Ant1	89.02	0.51	0.37
NVNT	n20	2412	Ant1	89.67	0.47	0.44
NVNT	n20	2437	Ant1	89.67	0.47	0.44
NVNT	n20	2462	Ant1	89.67	0.47	0.44



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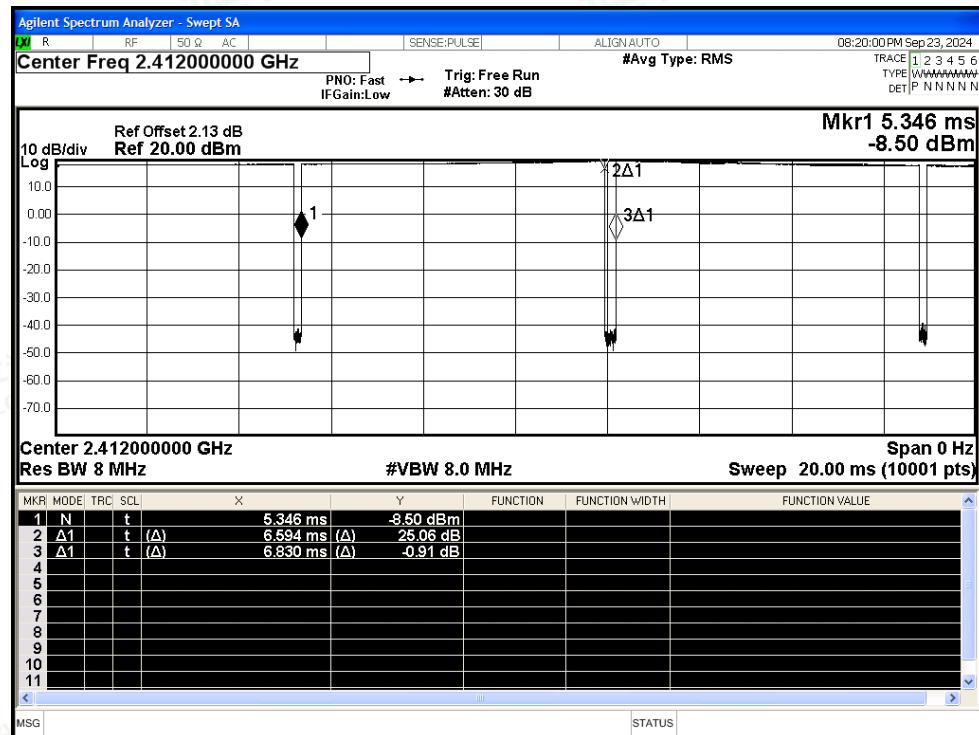
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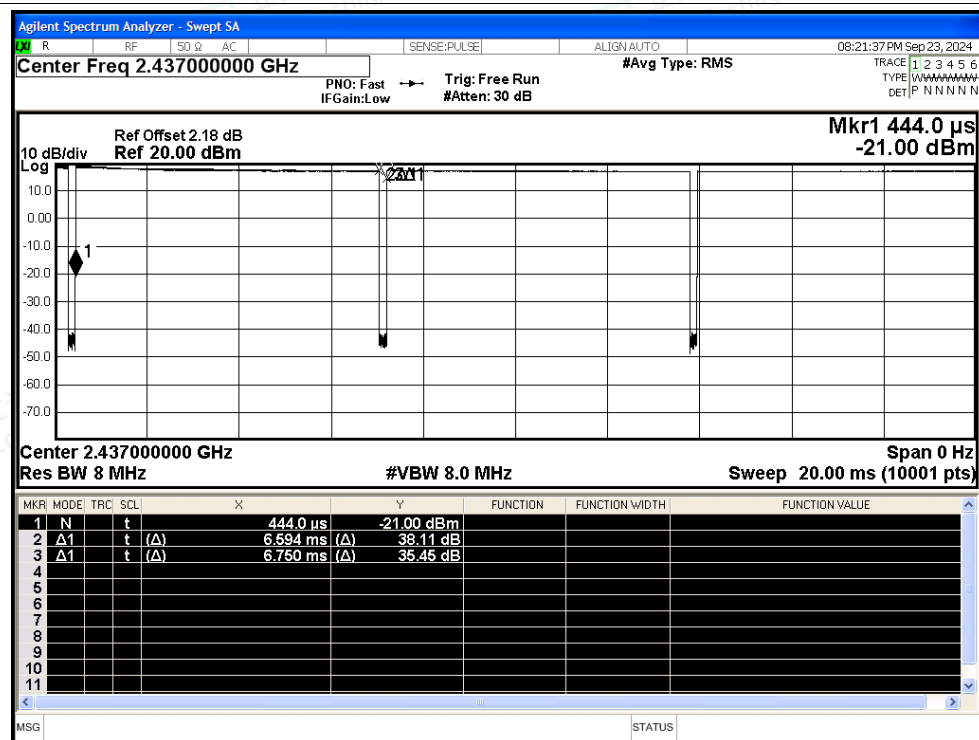


Test Graphs

Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

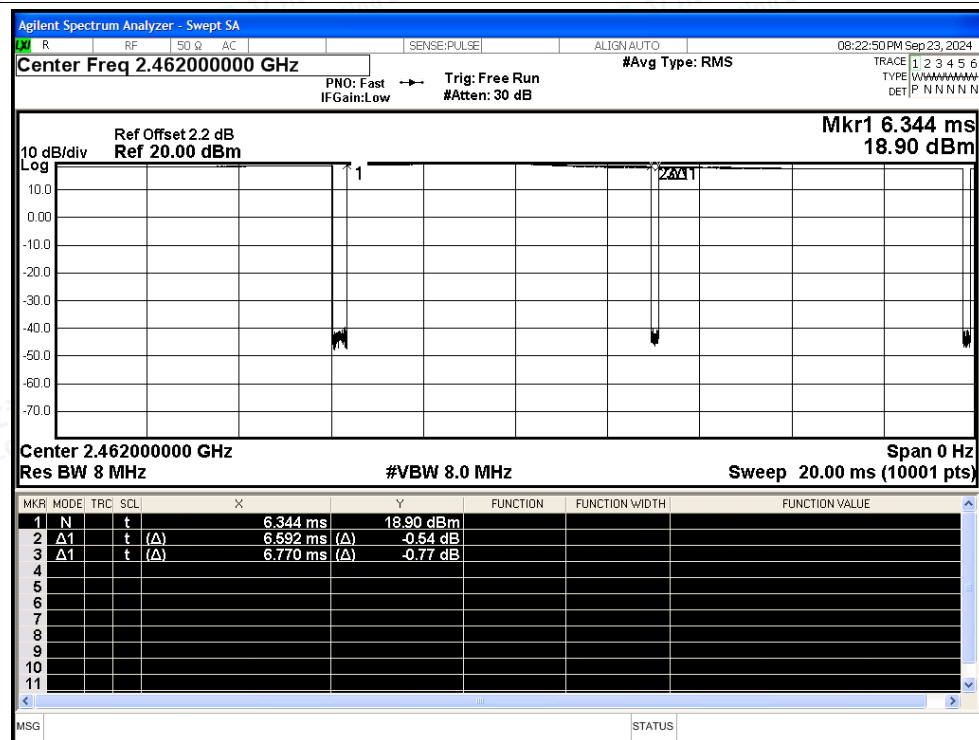
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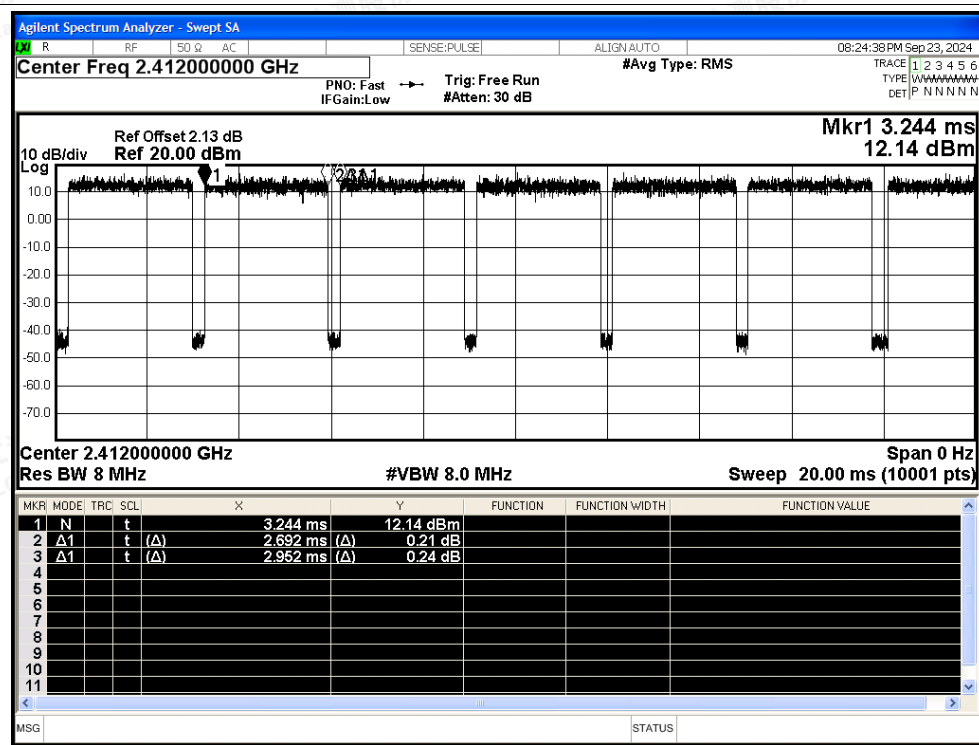
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Duty Cycle NVNT b 2462MHz Ant1



Duty Cycle NVNT g 2412MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

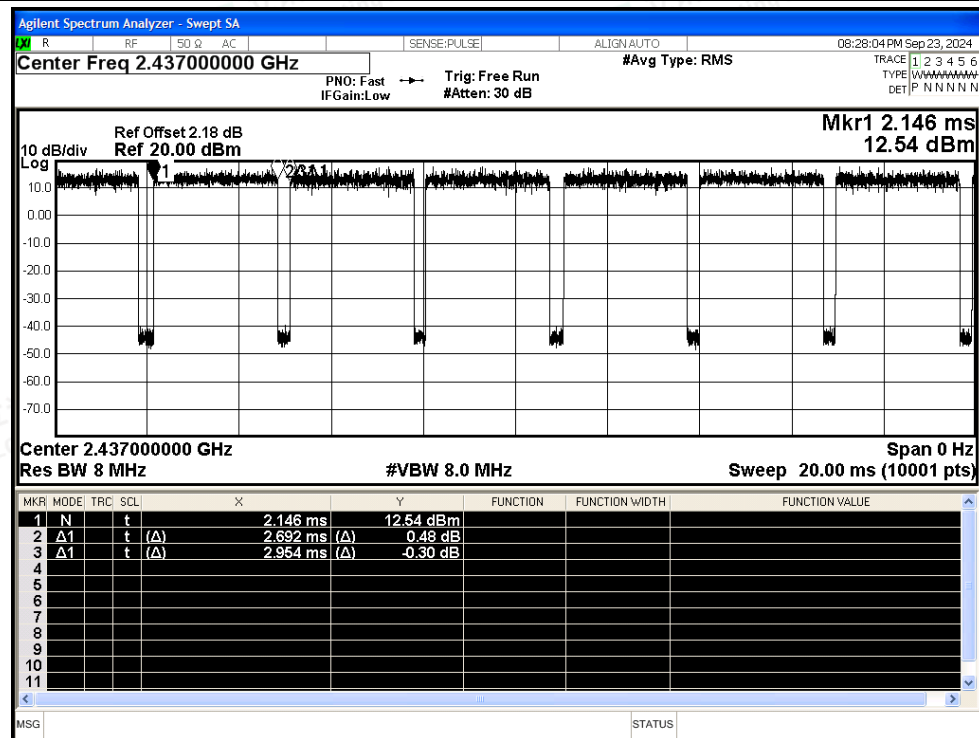
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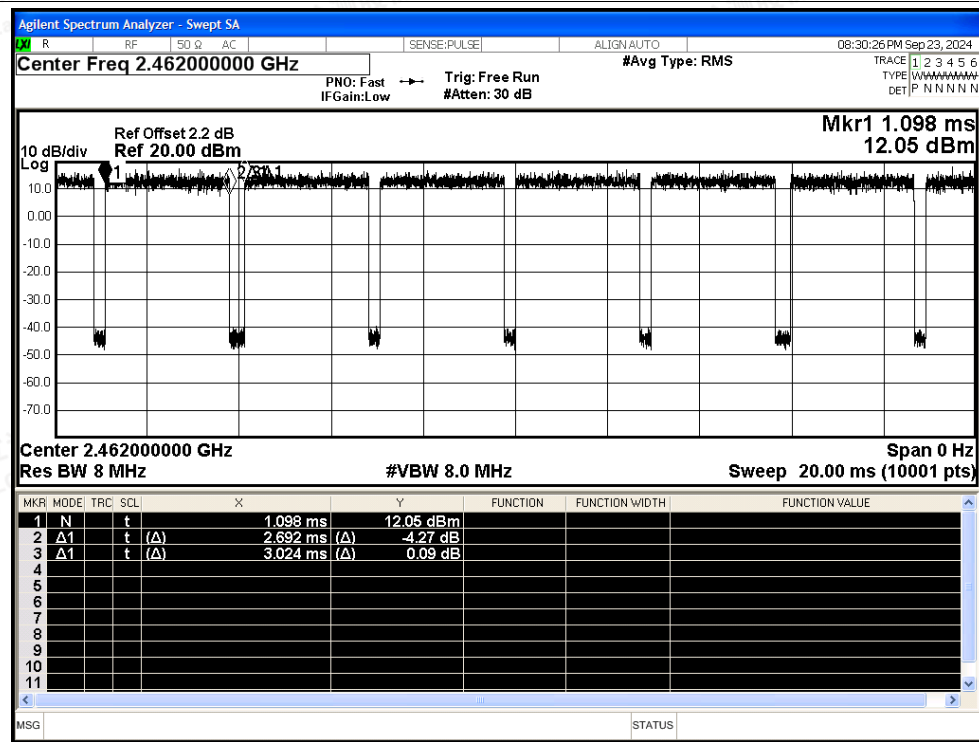
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Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2462MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

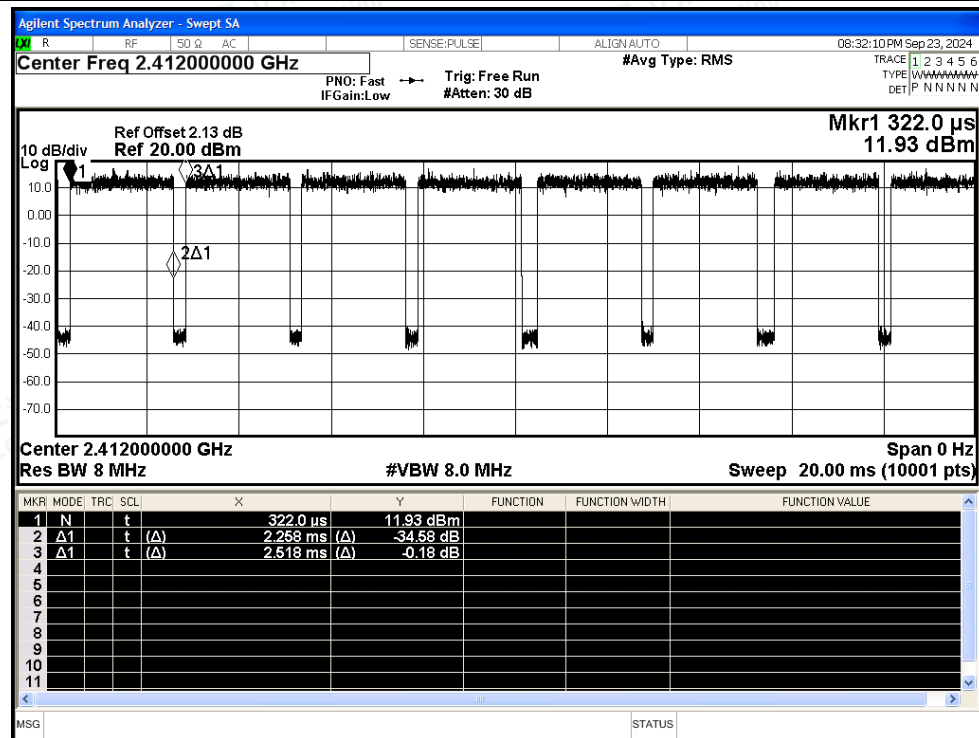
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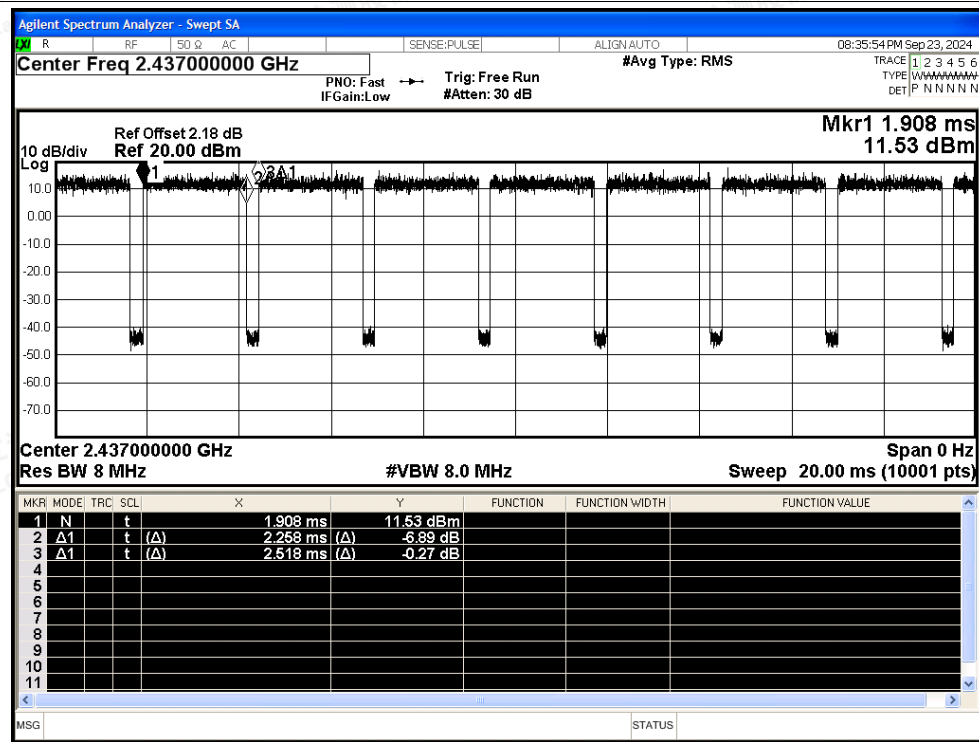
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Duty Cycle NVNT n20 2412MHz Ant1



Duty Cycle NVNT n20 2437MHz Ant1

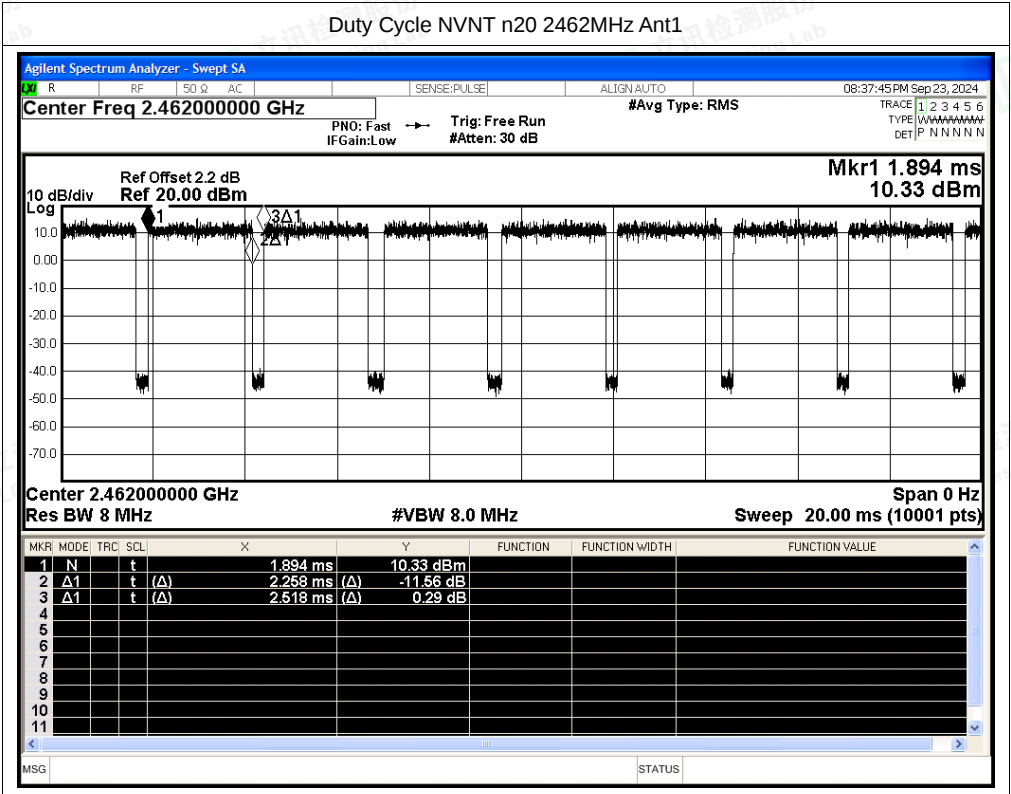


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B.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-51.03	2	-	46.23	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-58.17	2	0.15	39.24	Average	54	Pass
NVNT	b	2412	Ant1	2387.22	-47.22	2	-	50.04	Peak	74	Pass
NVNT	b	2412	Ant1	2389.794	-56.85	2	0.15	40.56	Average	54	Pass
NVNT	b	2412	Ant1	2390	-50.77	2	-	46.49	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-57.43	2	0.15	39.98	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-48.81	2	-	48.45	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-56.38	2	0.12	41	Average	54	Pass
NVNT	b	2462	Ant1	2488.181	-46.21	2	-	51.05	Peak	74	Pass
NVNT	b	2462	Ant1	2483.57	-56.31	2	0.12	41.07	Average	54	Pass
NVNT	b	2462	Ant1	2500	-49.78	2	-	47.48	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-57.14	2	0.12	40.24	Average	54	Pass
NVNT	g	2412	Ant1	2310	-50.51	2	-	46.75	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-58.74	2	0.4	38.92	Average	54	Pass
NVNT	g	2412	Ant1	2389.56	-36.36	2	-	60.9	Peak	74	Pass
NVNT	g	2412	Ant1	2389.56	-52.63	2	0.4	45.03	Average	54	Pass
NVNT	g	2412	Ant1	2390	-42.54	2	-	54.72	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-52.59	2	0.4	45.07	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-33.04	2	-	64.22	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-52.3	2	0.51	45.47	Average	54	Pass
NVNT	g	2462	Ant1	2483.517	-33.04	2	-	64.22	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-52.3	2	0.51	45.47	Average	54	Pass
NVNT	g	2462	Ant1	2500	-50.6	2	-	46.66	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-57.42	2	0.51	40.35	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-52.15	2	-	45.11	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-58.46	2	0.47	39.27	Average	54	Pass
NVNT	n20	2412	Ant1	2389.794	-39.21	2	-	58.05	Peak	74	Pass
NVNT	n20	2412	Ant1	2388.975	-52.94	2	0.47	44.79	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-36.72	2	-	60.54	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-55.15	2	0.47	42.58	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-37.8	2	-	59.46	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-53.35	2	0.47	44.38	Average	54	Pass
NVNT	n20	2462	Ant1	2484.1	-32.64	2	-	64.62	Peak	74	Pass
NVNT	n20	2462	Ant1	2484.153	-50.84	2	0.47	46.89	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-49.02	2	-	48.24	Peak	74	Pass
NVNT	n20	2462	Ant1	2500	-57.92	2	0.47	39.81	Average	54	Pass



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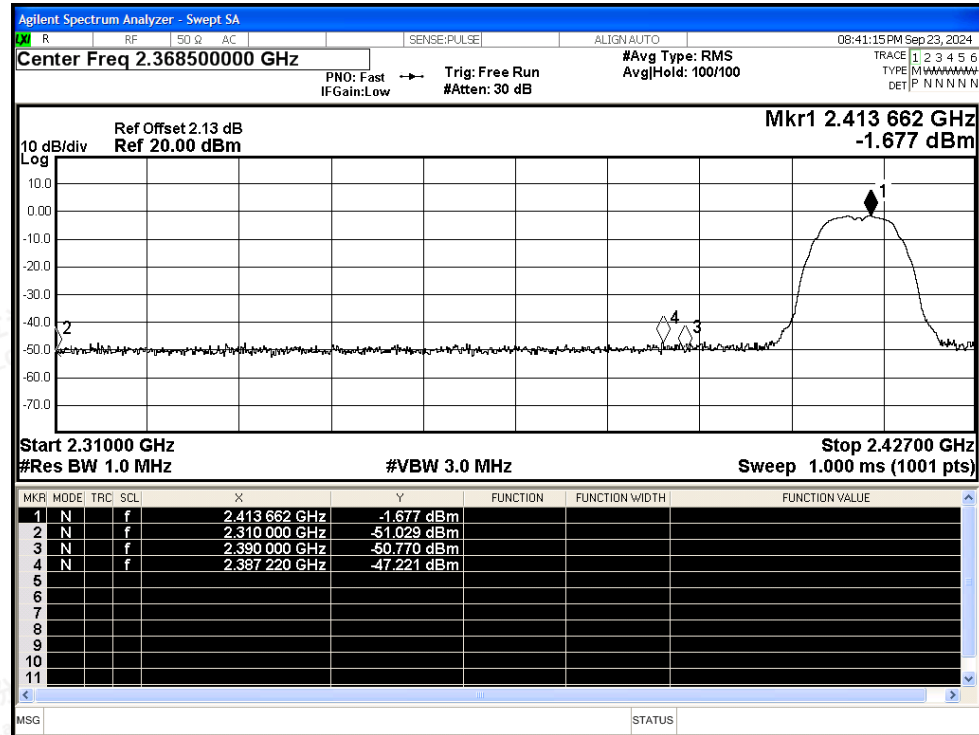
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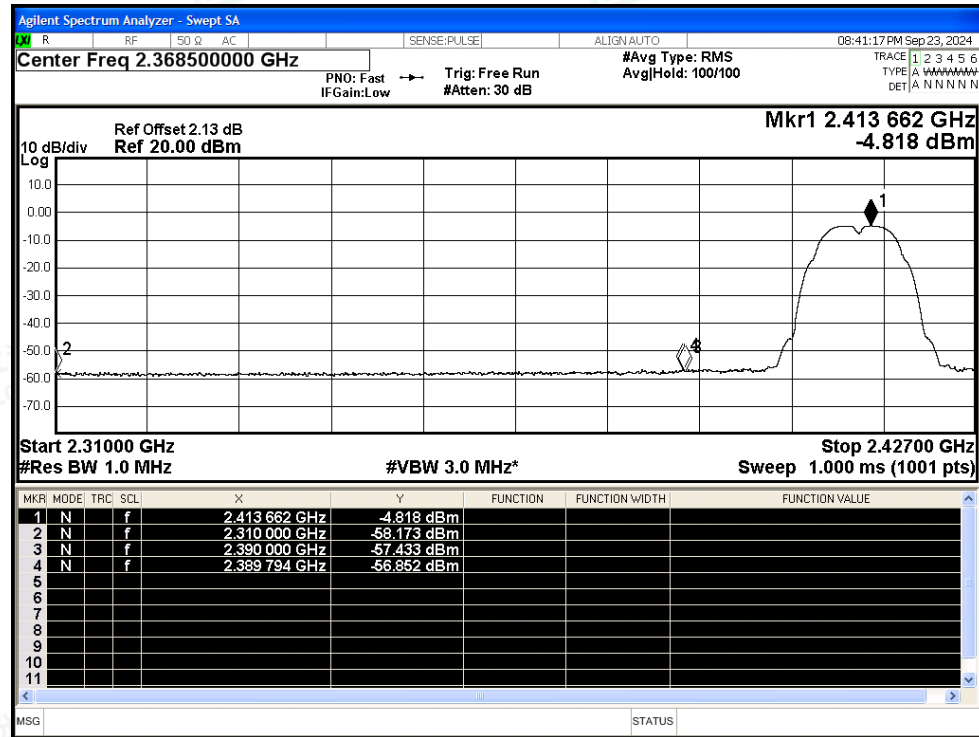


Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average



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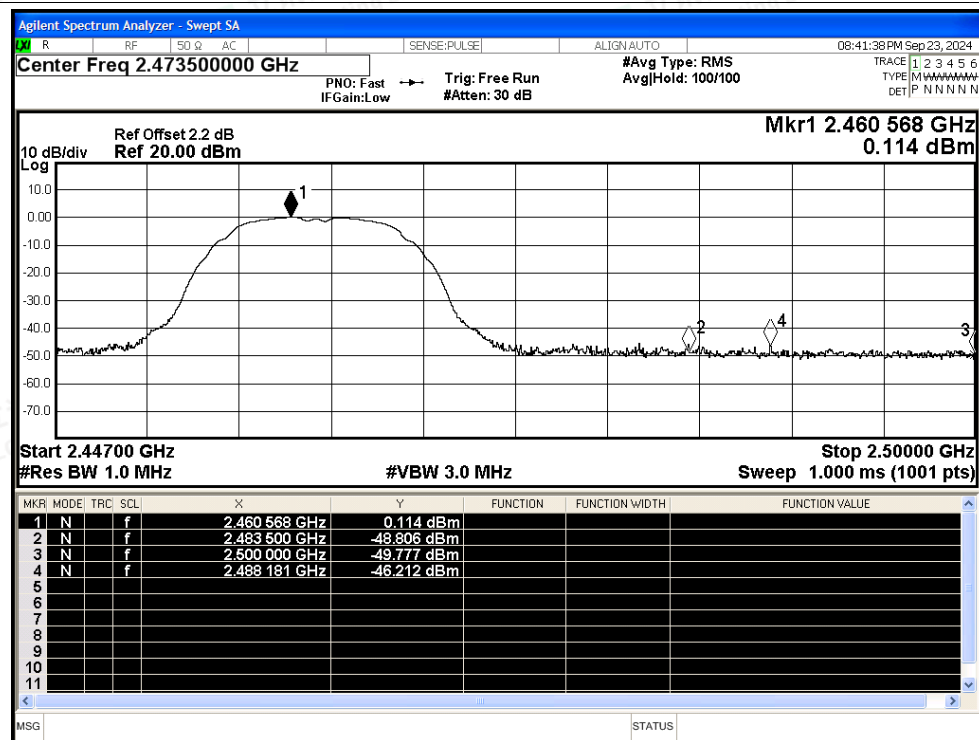
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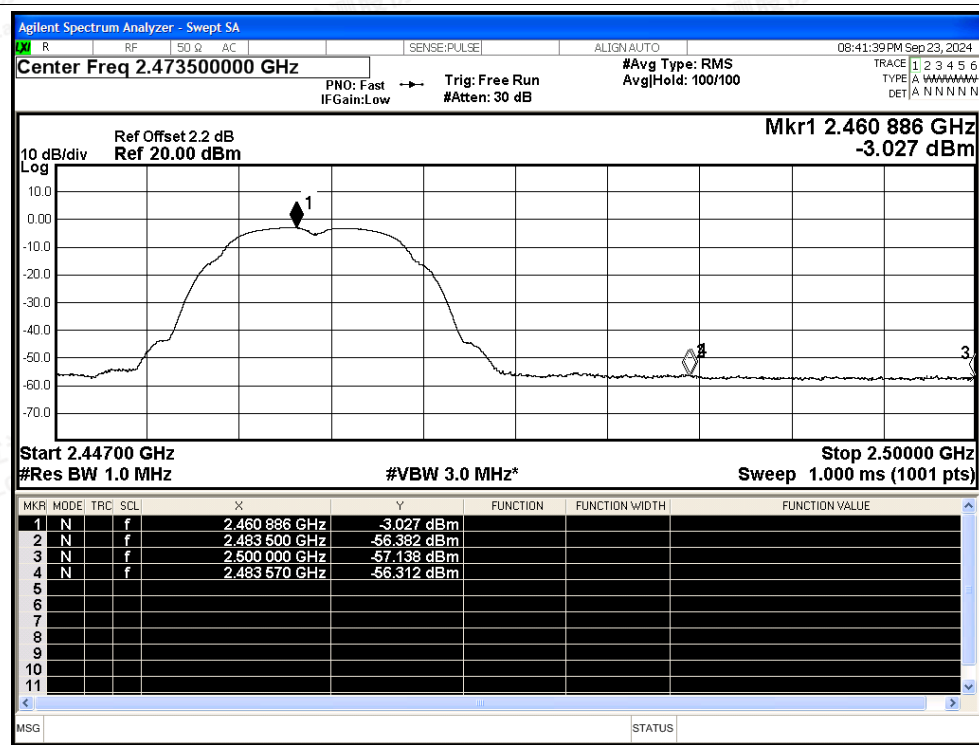
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Restrict Band NVNT b 2462MHz Ant1 Peak



Restrict Band NVNT b 2462MHz Ant1 Average



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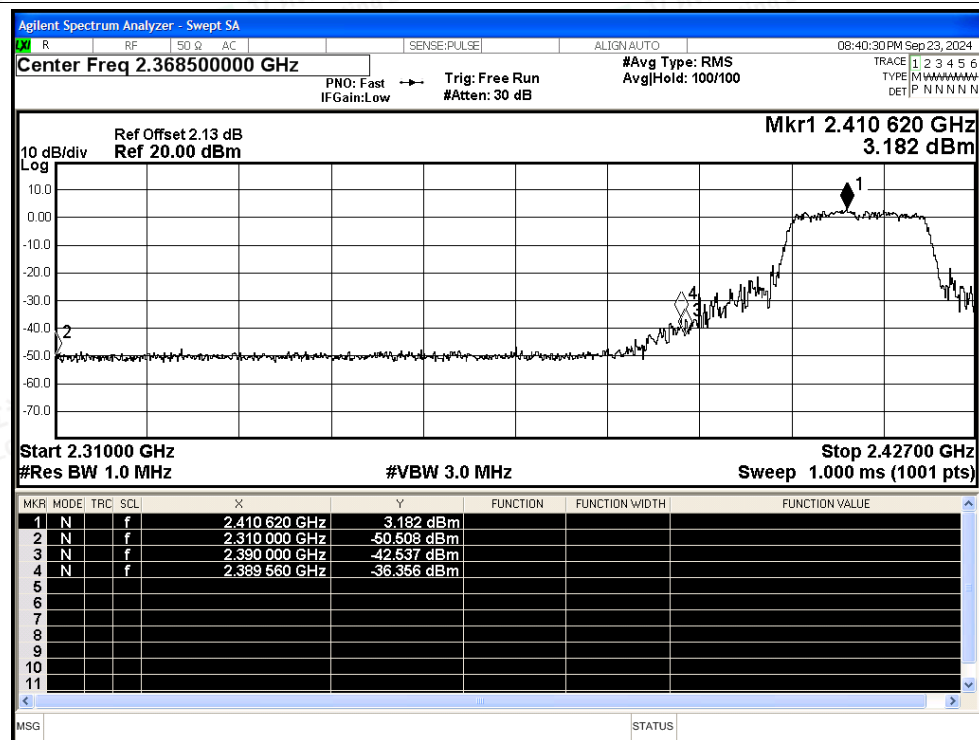
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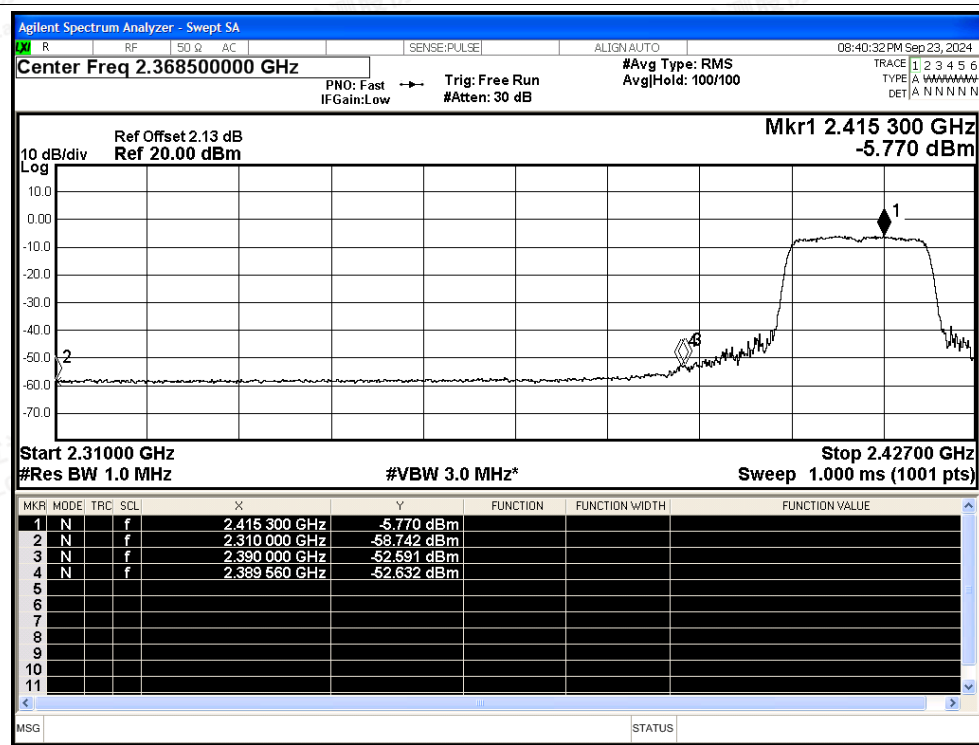
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Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average



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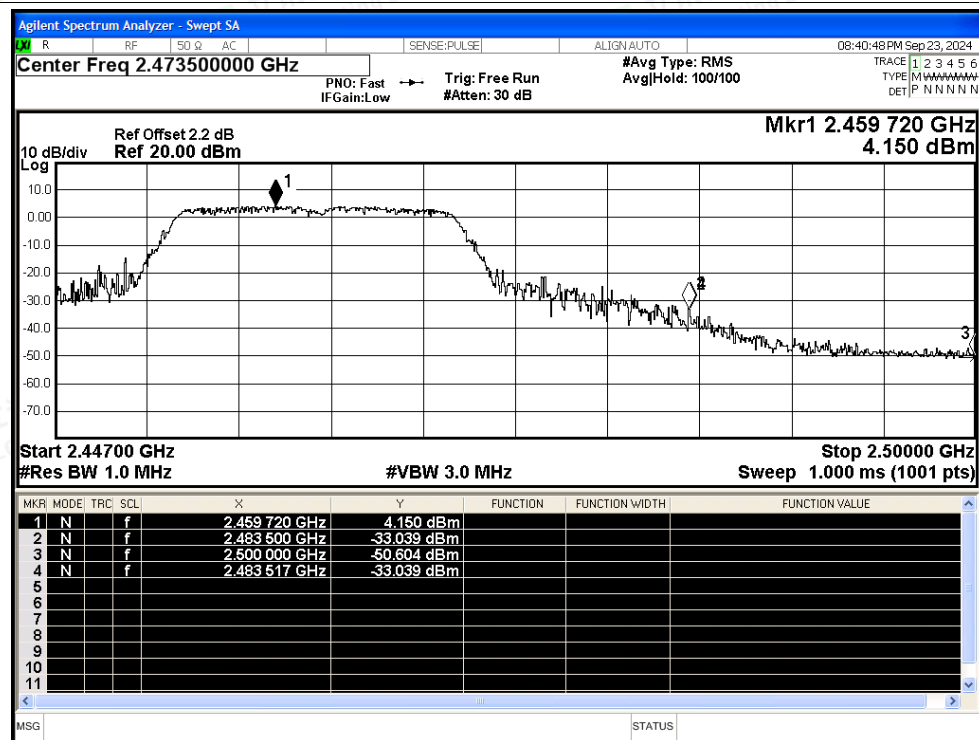
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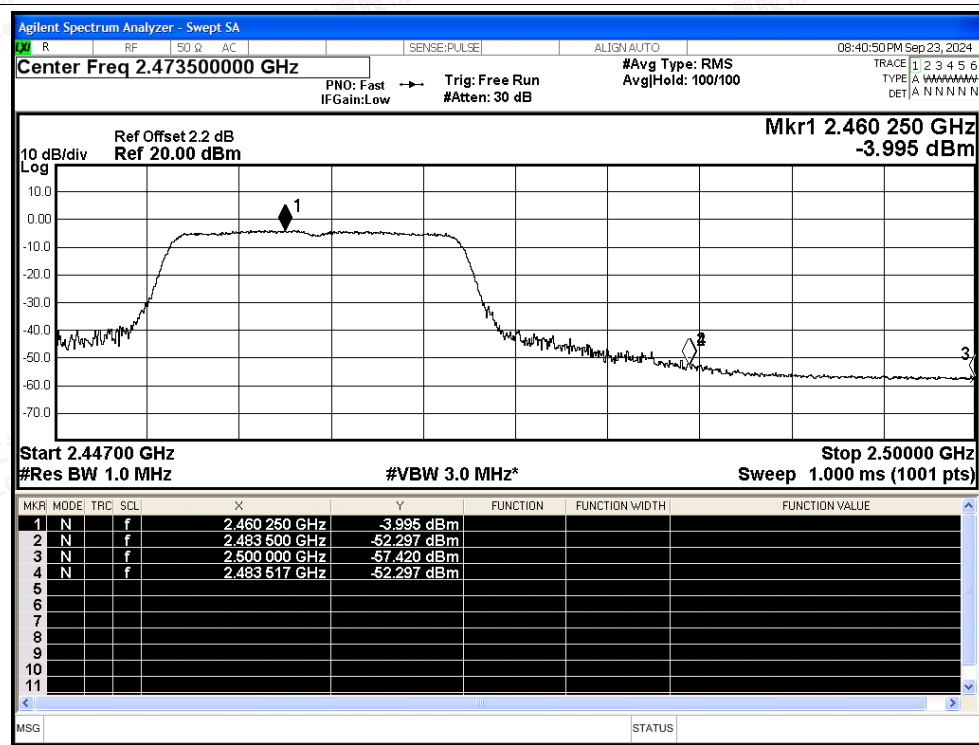
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Restrict Band NVNT g 2462MHz Ant1 Peak



Restrict Band NVNT g 2462MHz Ant1 Average



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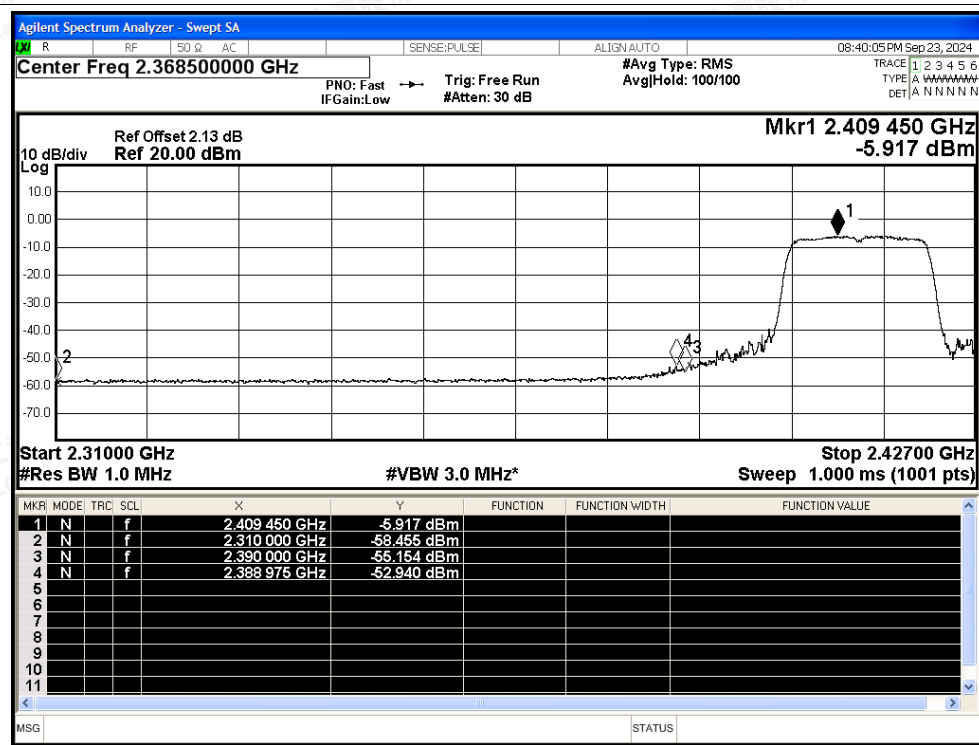
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Restrict Band NVNT n20 2412MHz Ant1 Peak



Restrict Band NVNT n20 2412MHz Ant1 Average



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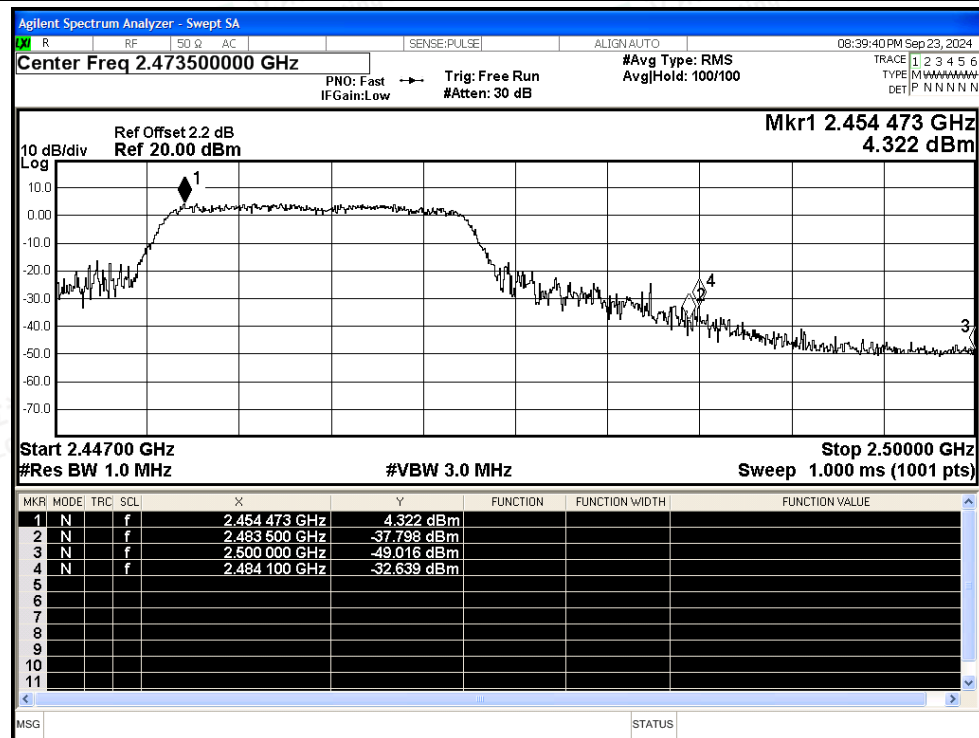
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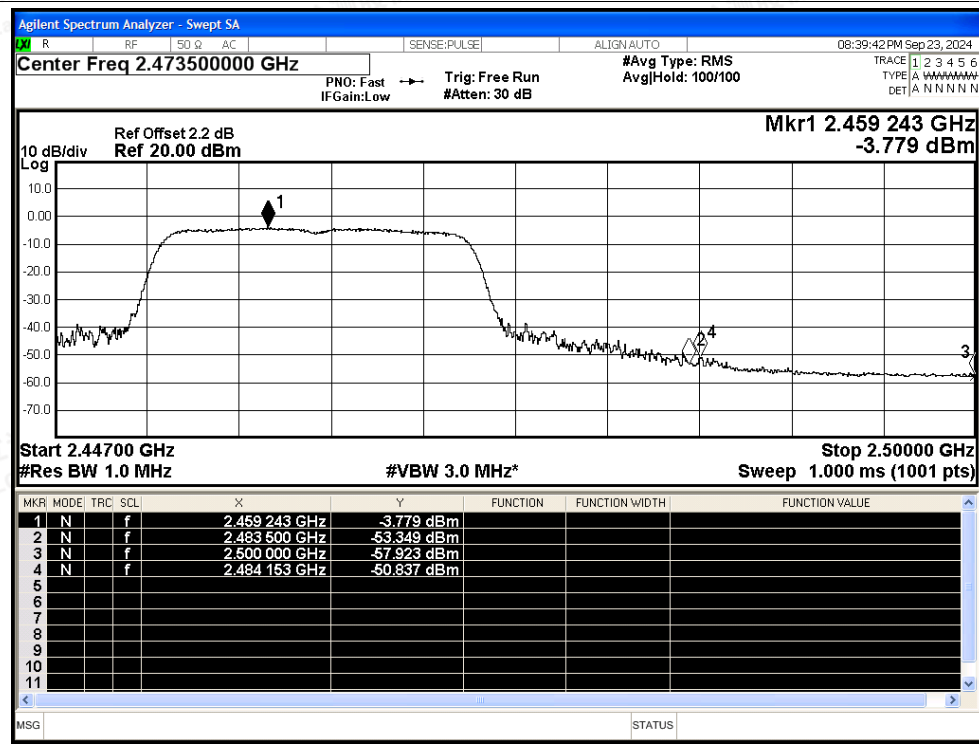
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