



Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Wireless Monitoring Module for Hydra Electronic Suction Cup

Test Model: HDA-ESC-WMM

Environmental Conditions

Temperature:	24.6°C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Nick Peng



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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	7.966	≥ 0.5	Pass
NVNT	b	2437	Ant1	9.019	≥ 0.5	Pass
NVNT	b	2462	Ant1	8.105	≥ 0.5	Pass
NVNT	g	2412	Ant1	16.294	≥ 0.5	Pass
NVNT	g	2437	Ant1	16.322	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.322	≥ 0.5	Pass
NVNT	n20	2412	Ant1	16.643	≥ 0.5	Pass
NVNT	n20	2437	Ant1	17.212	≥ 0.5	Pass
NVNT	n20	2462	Ant1	17.255	≥ 0.5	Pass
NVNT	n40	2422	Ant1	35.194	≥ 0.5	Pass
NVNT	n40	2437	Ant1	35.362	≥ 0.5	Pass
NVNT	n40	2452	Ant1	35.478	≥ 0.5	Pass





Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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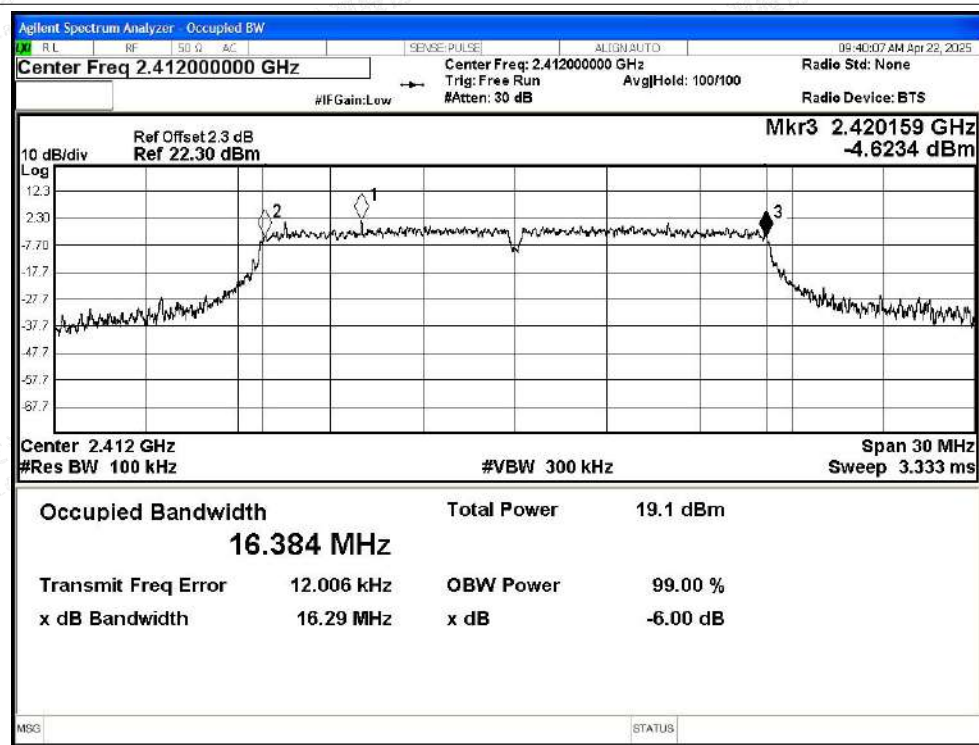
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



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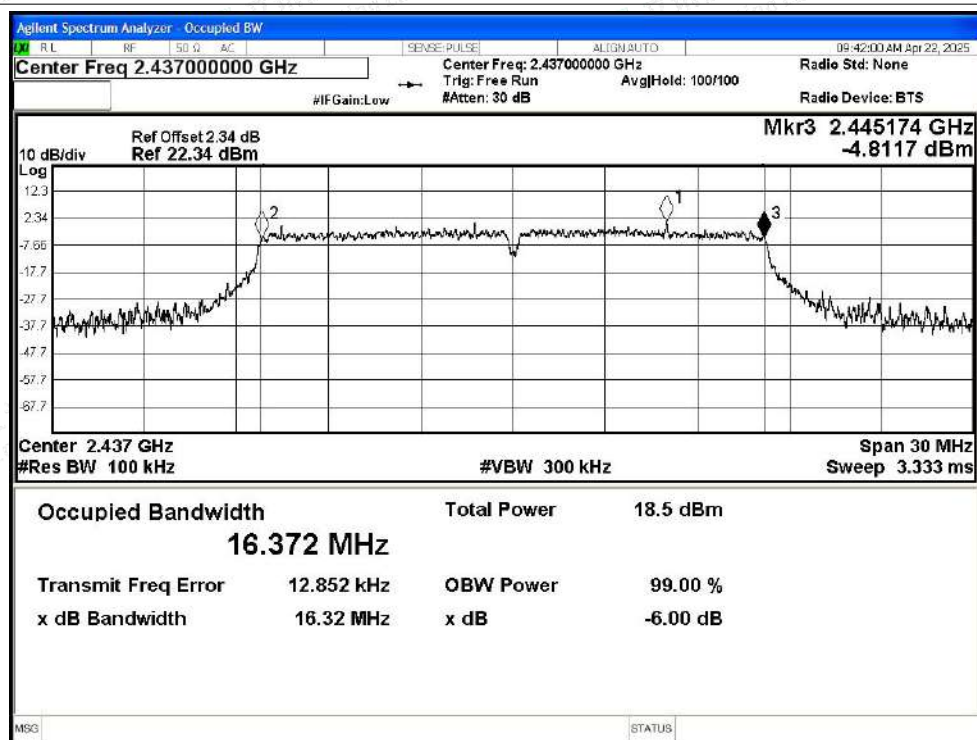
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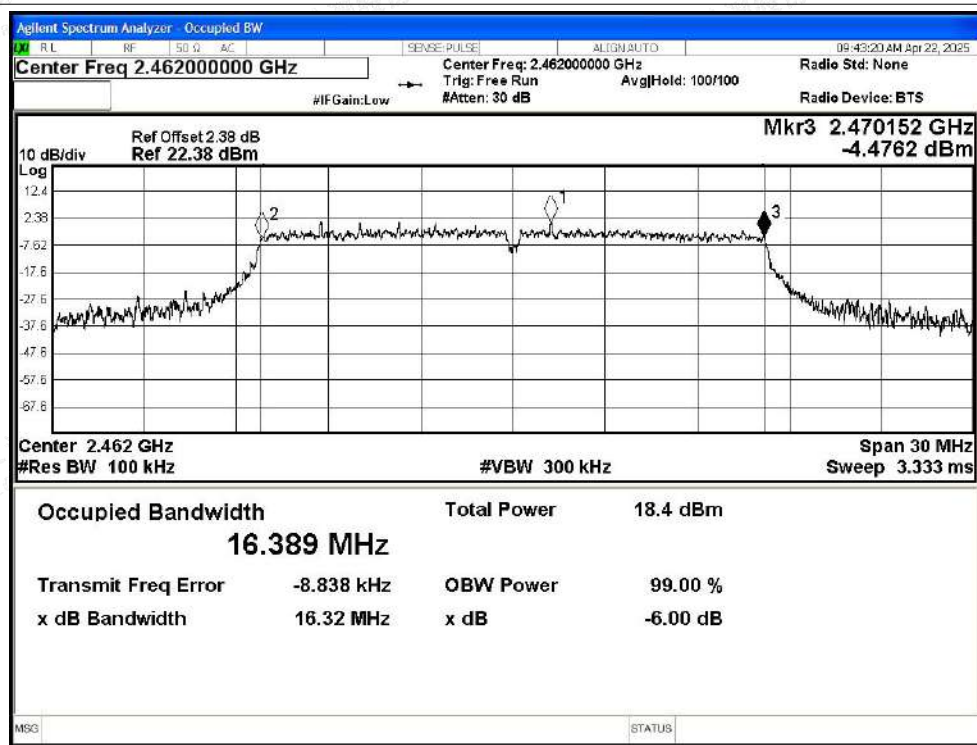
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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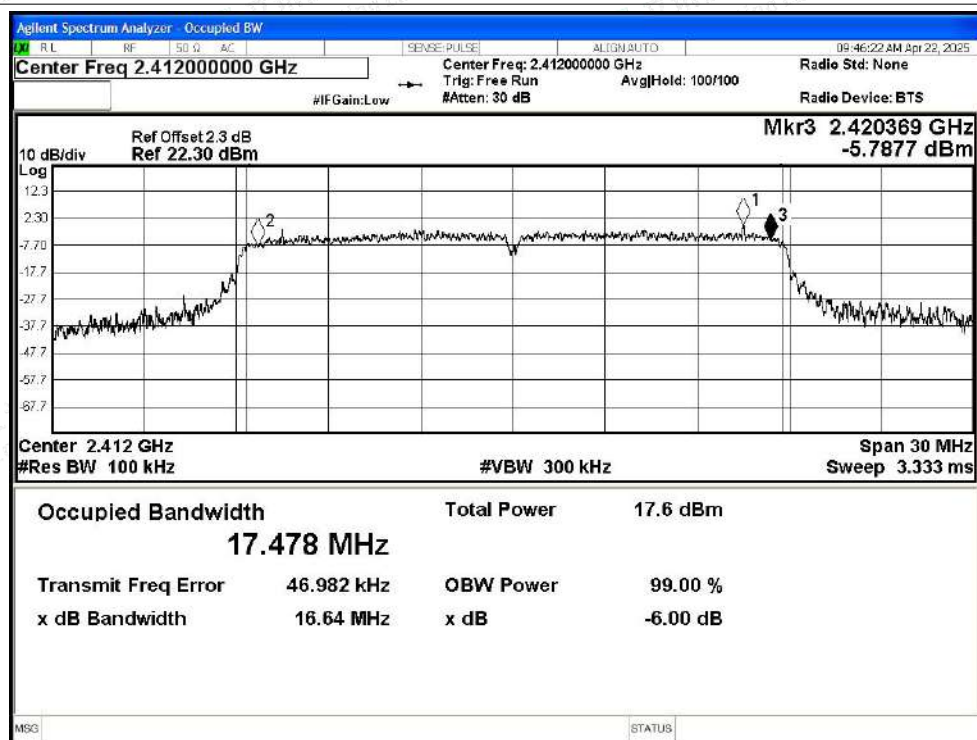
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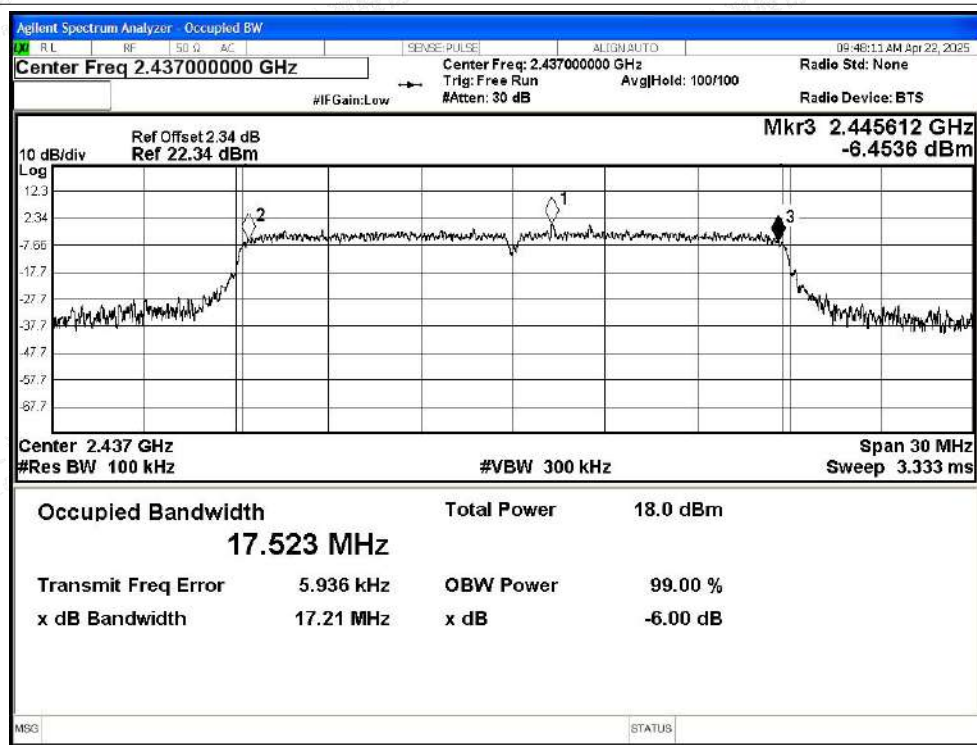
Scan code to check authenticity



-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



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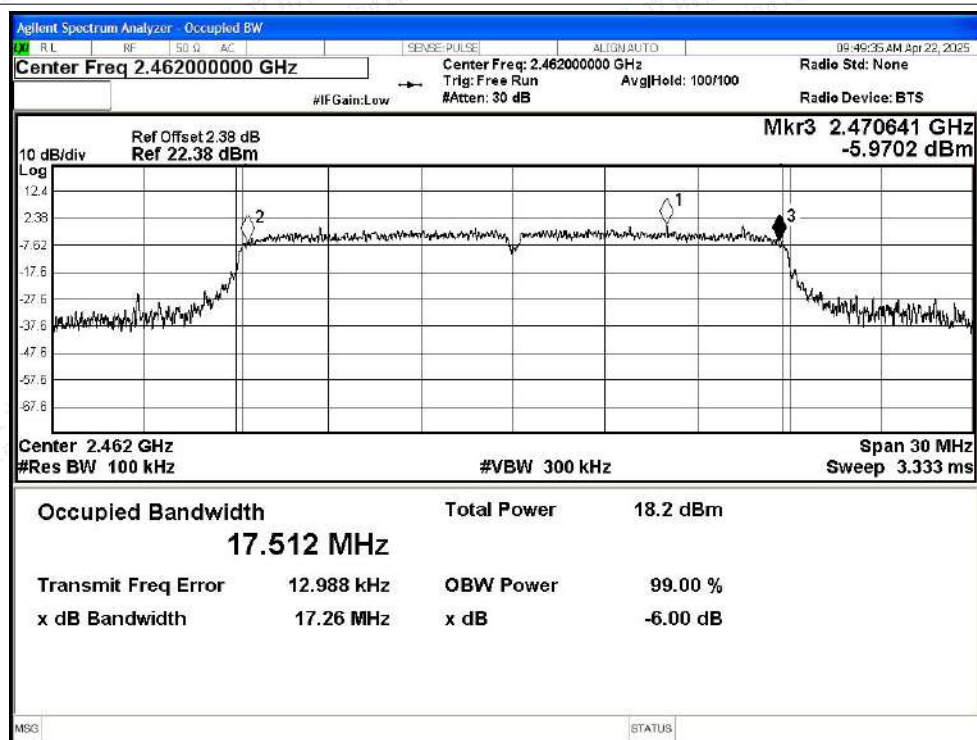
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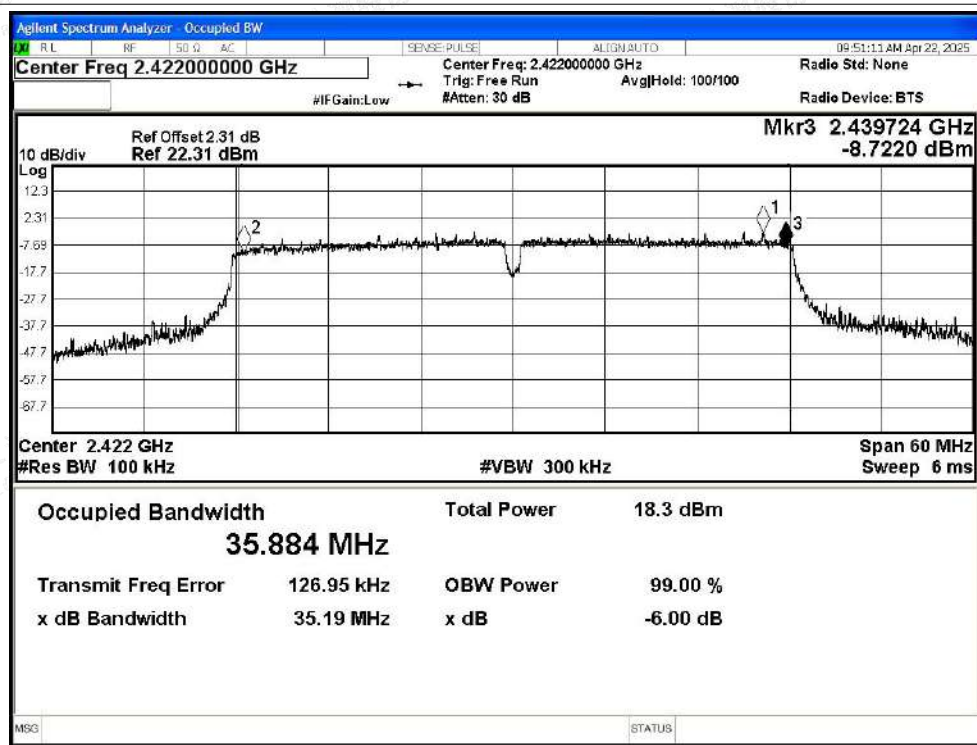
Scan code to check authenticity



-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1



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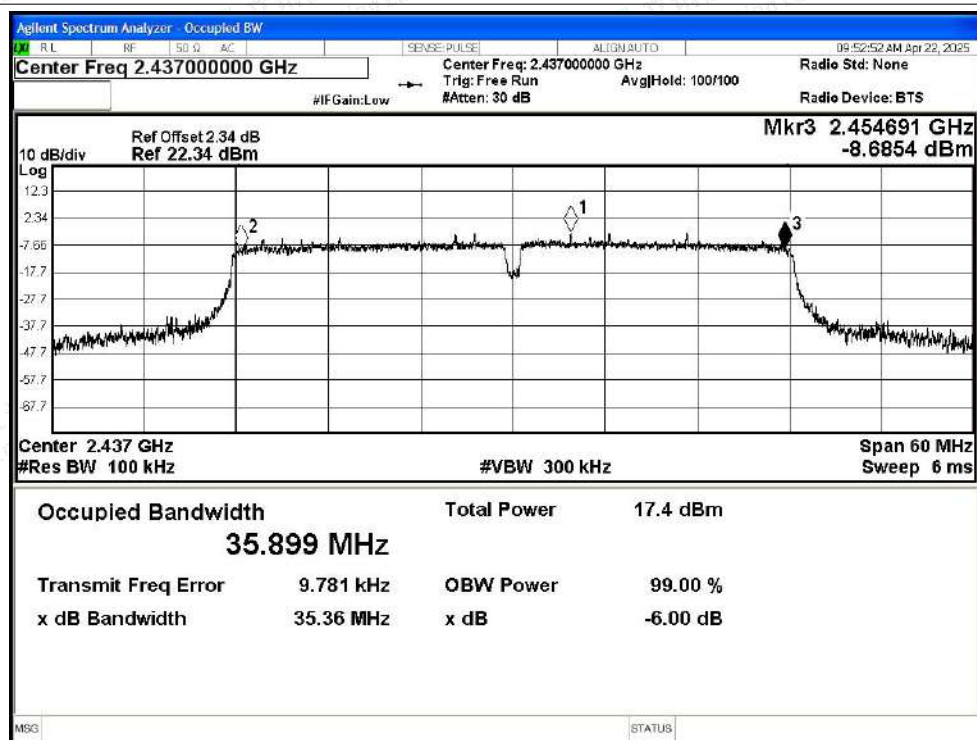
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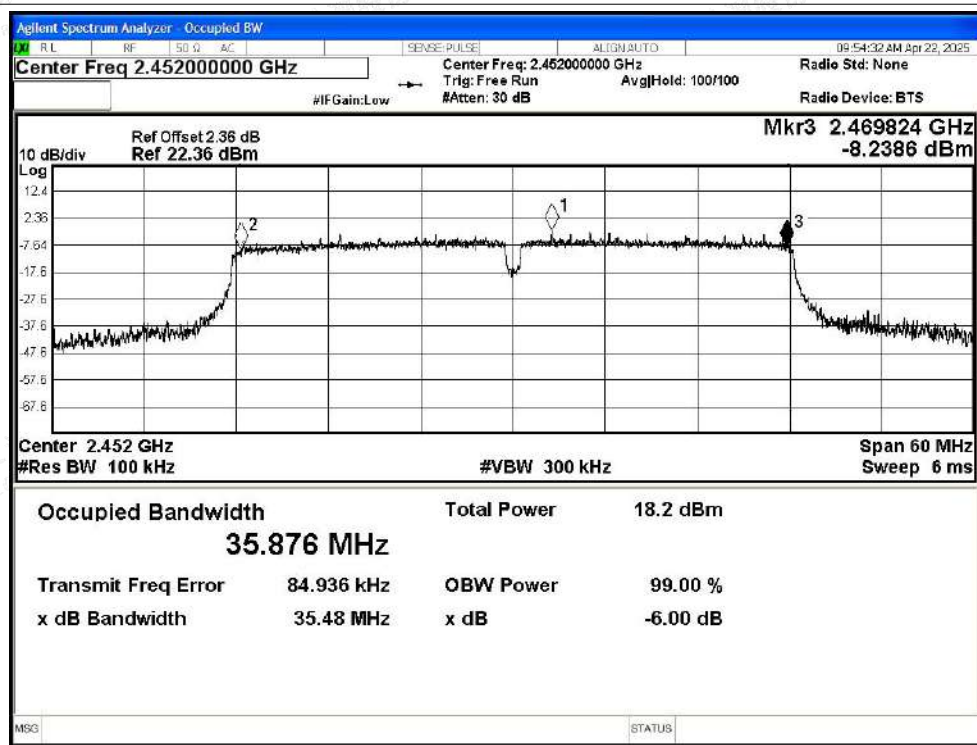
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-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	17.45	30	Pass
NVNT	b	2437	Ant1	17.6	30	Pass
NVNT	b	2462	Ant1	17.6	30	Pass
NVNT	g	2412	Ant1	17.85	30	Pass
NVNT	g	2437	Ant1	17.22	30	Pass
NVNT	g	2462	Ant1	17.21	30	Pass
NVNT	n20	2412	Ant1	16.34	30	Pass
NVNT	n20	2437	Ant1	16.6	30	Pass
NVNT	n20	2462	Ant1	16.79	30	Pass
NVNT	n40	2422	Ant1	16.74	30	Pass
NVNT	n40	2437	Ant1	16.95	30	Pass
NVNT	n40	2452	Ant1	16.62	30	Pass



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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	-6.81	8	Pass
NVNT	b	2437	Ant1	-3.2	8	Pass
NVNT	b	2462	Ant1	-7.46	8	Pass
NVNT	g	2412	Ant1	-12.74	8	Pass
NVNT	g	2437	Ant1	-13.32	8	Pass
NVNT	g	2462	Ant1	-13.05	8	Pass
NVNT	n20	2412	Ant1	-14.42	8	Pass
NVNT	n20	2437	Ant1	-13.8	8	Pass
NVNT	n20	2462	Ant1	-13.99	8	Pass
NVNT	n40	2422	Ant1	-16.91	8	Pass
NVNT	n40	2437	Ant1	-17.3	8	Pass
NVNT	n40	2452	Ant1	-16.33	8	Pass



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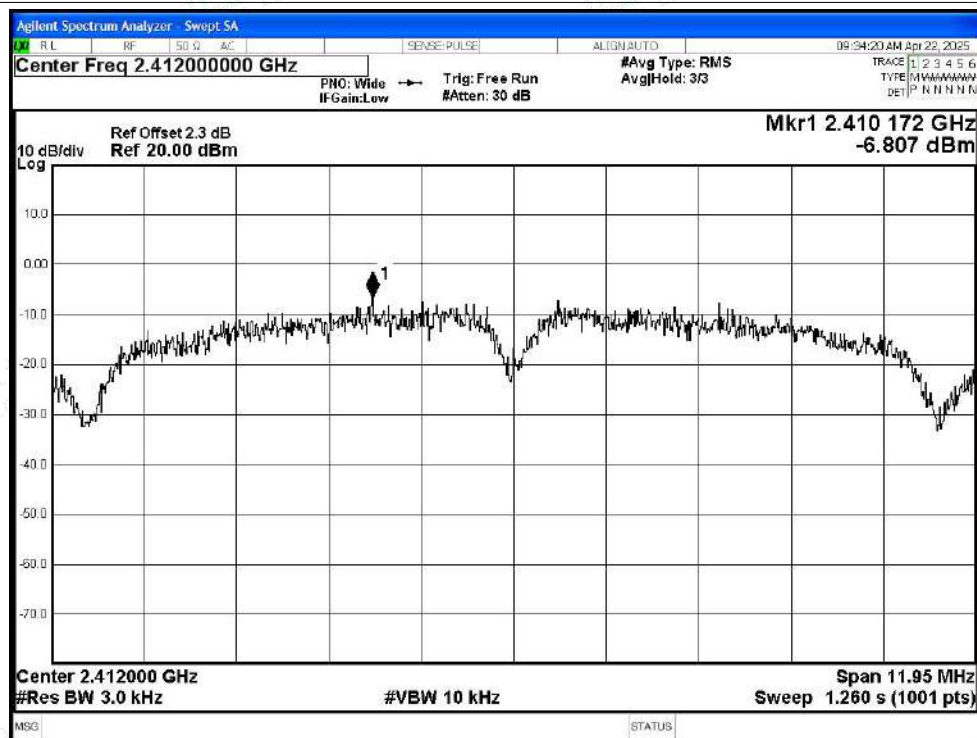
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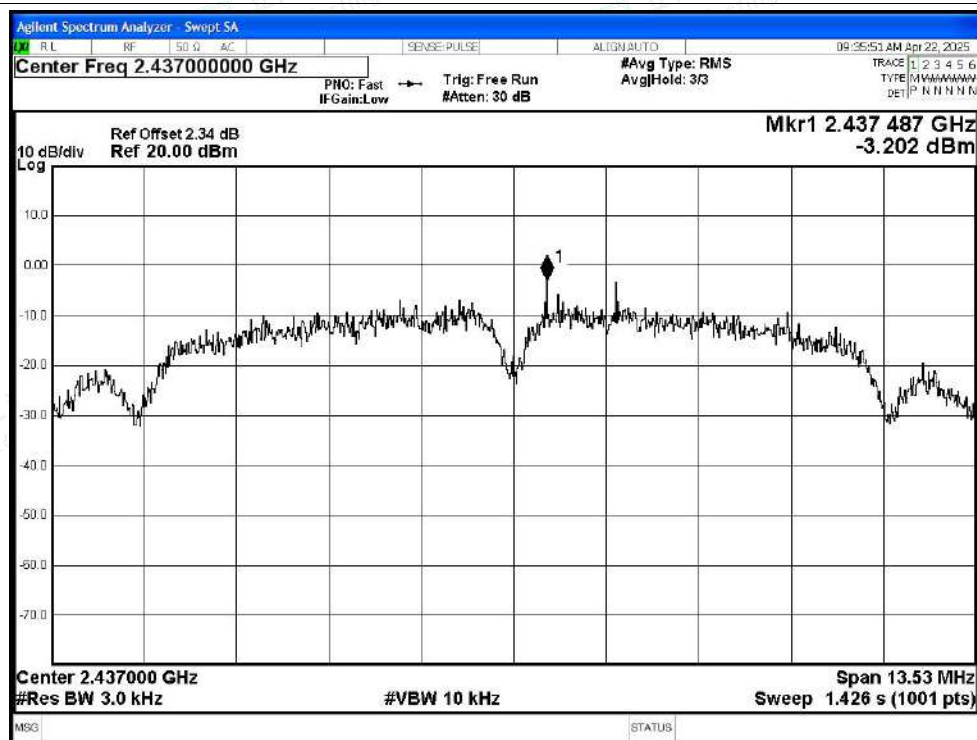


Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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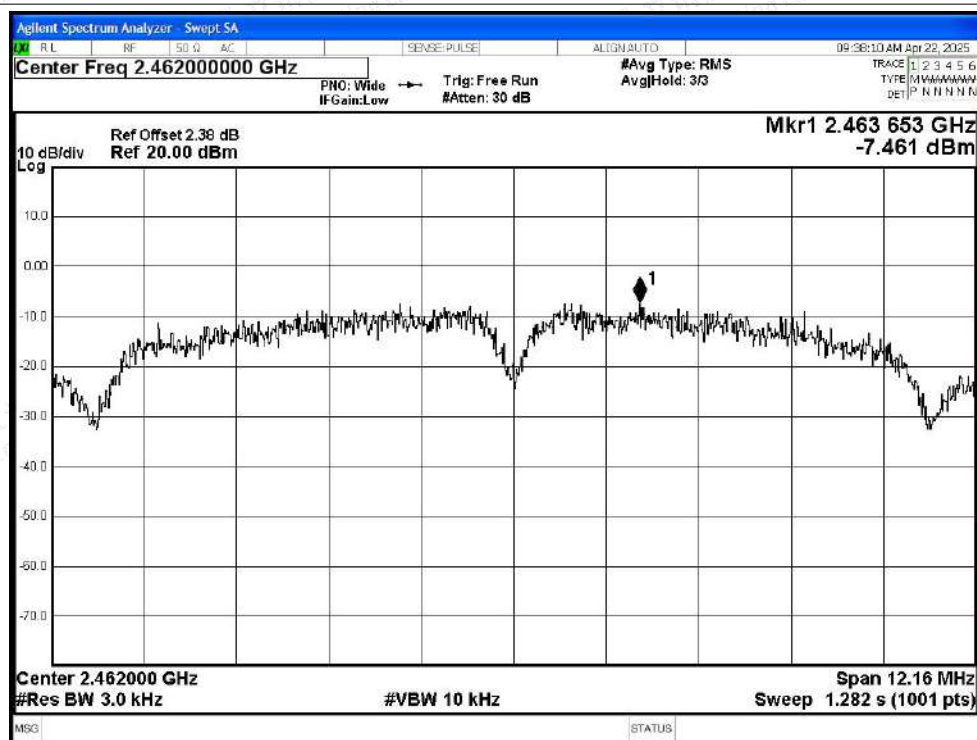
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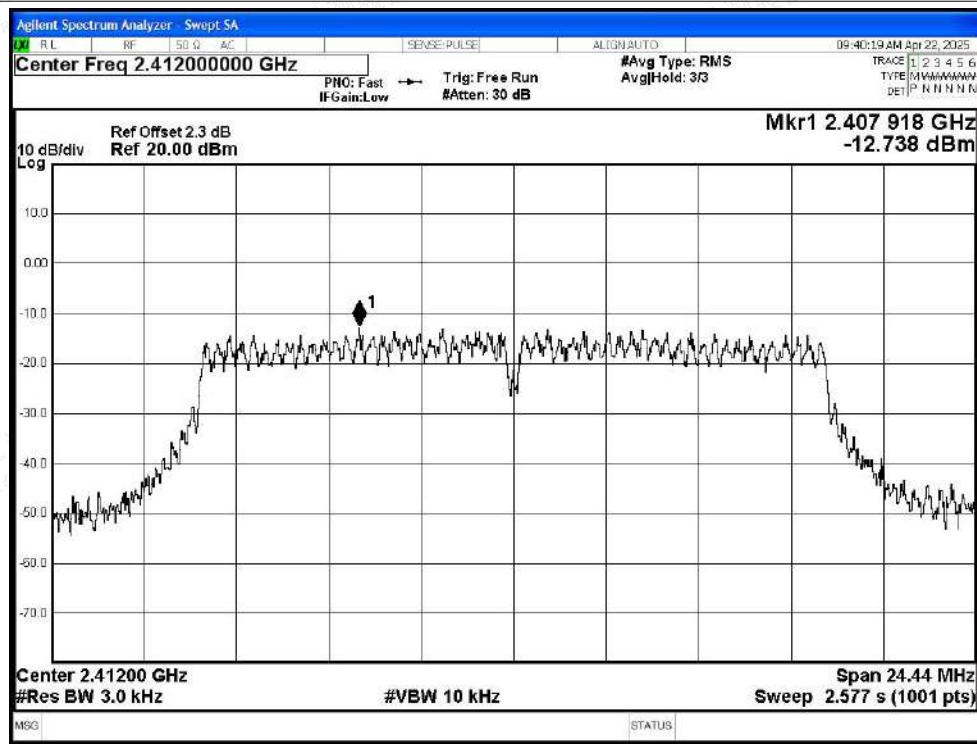
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



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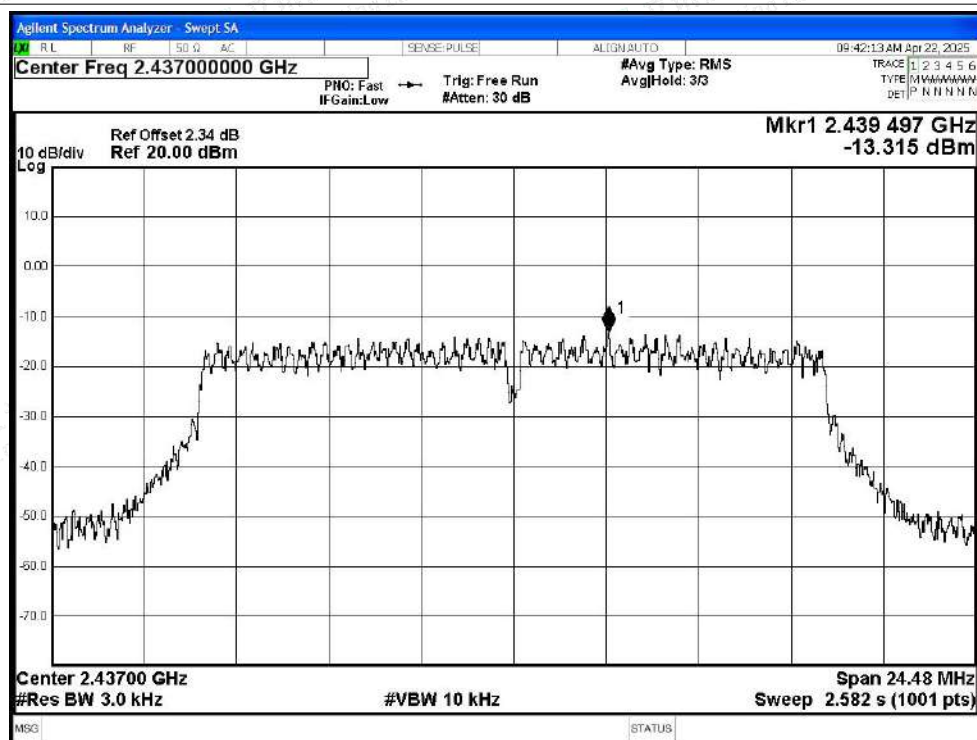
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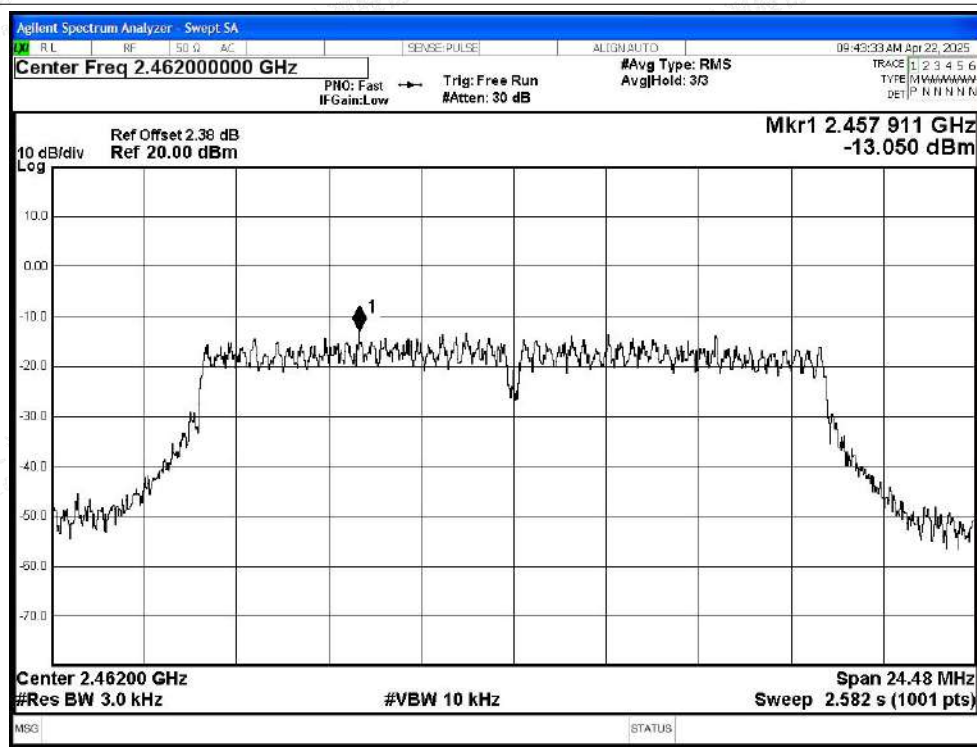
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PSD NVNT g 2437MHz Ant1

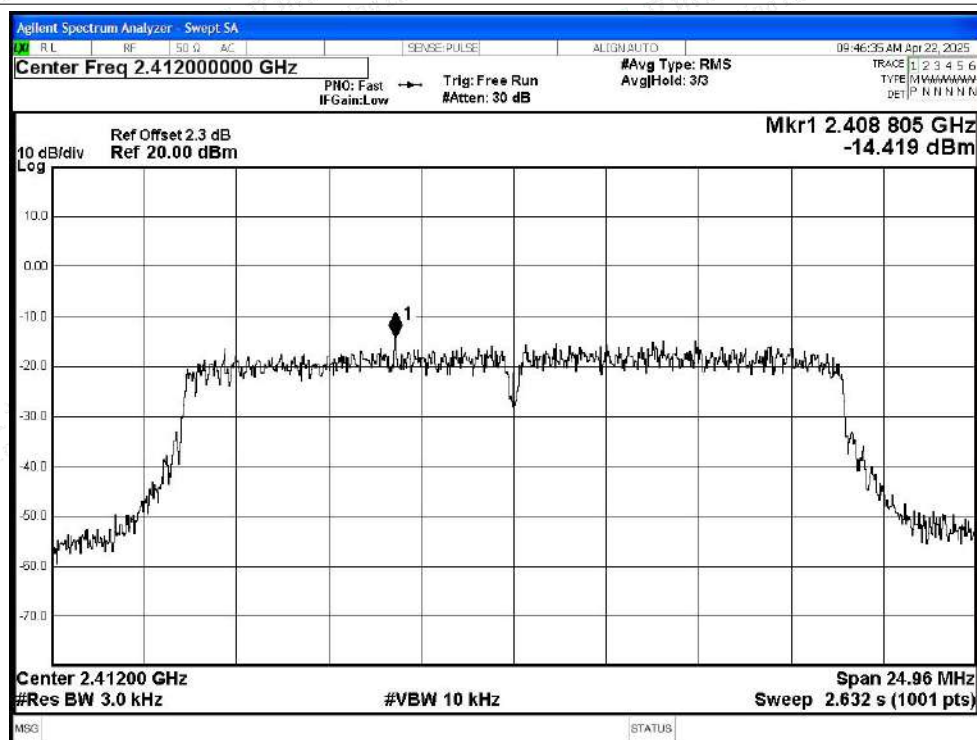


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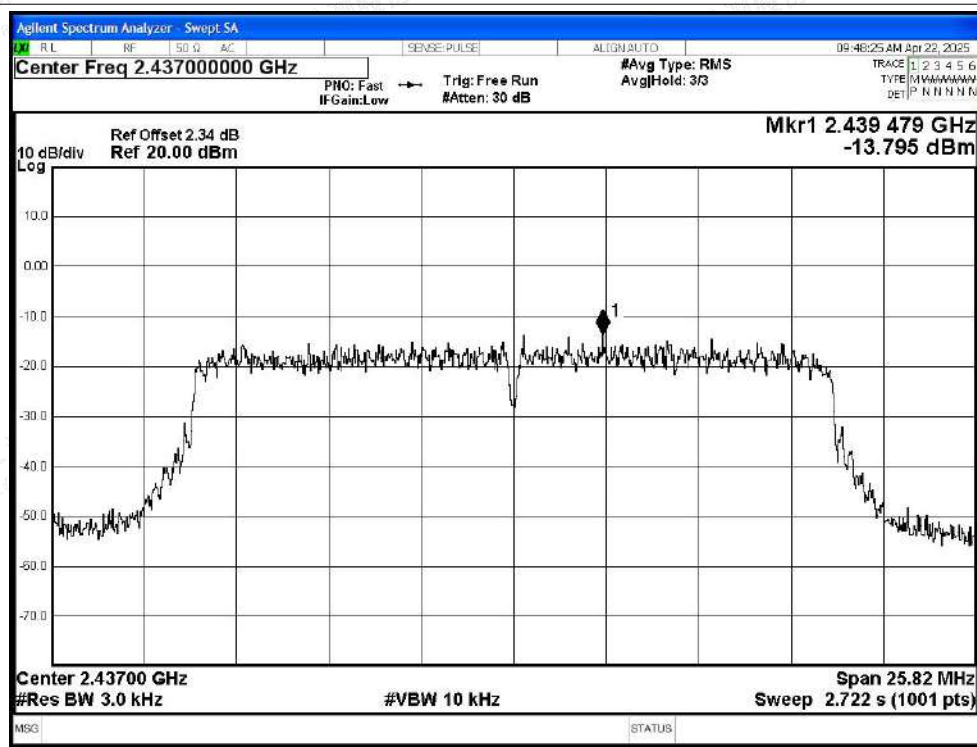


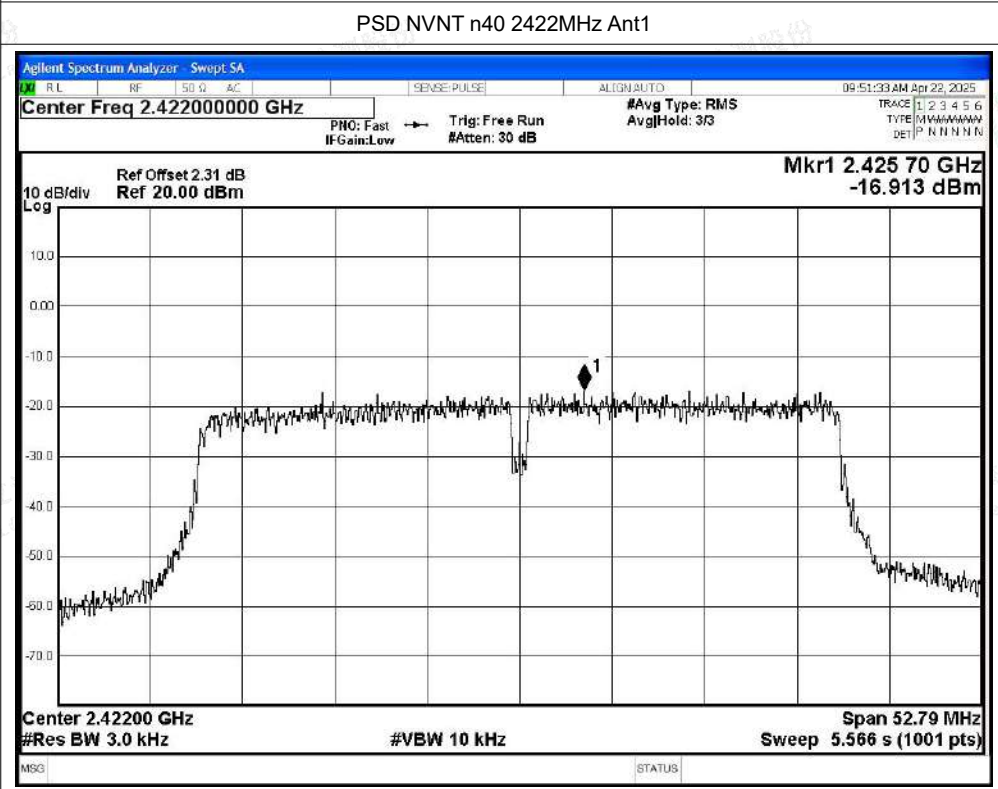
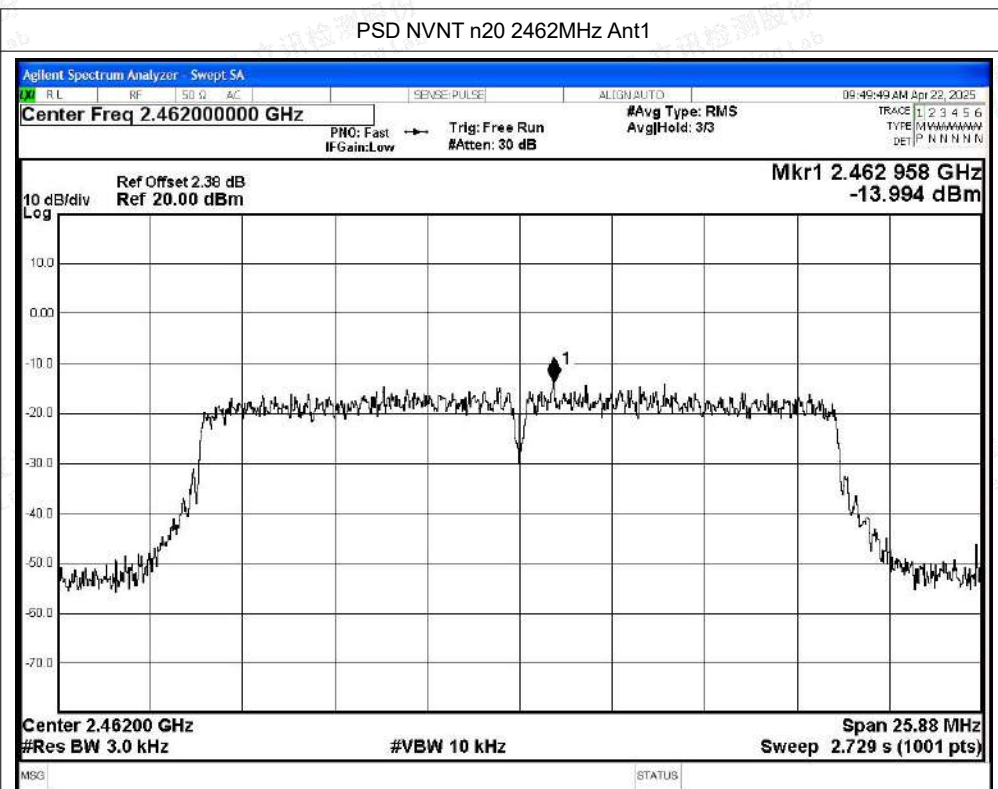


PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1



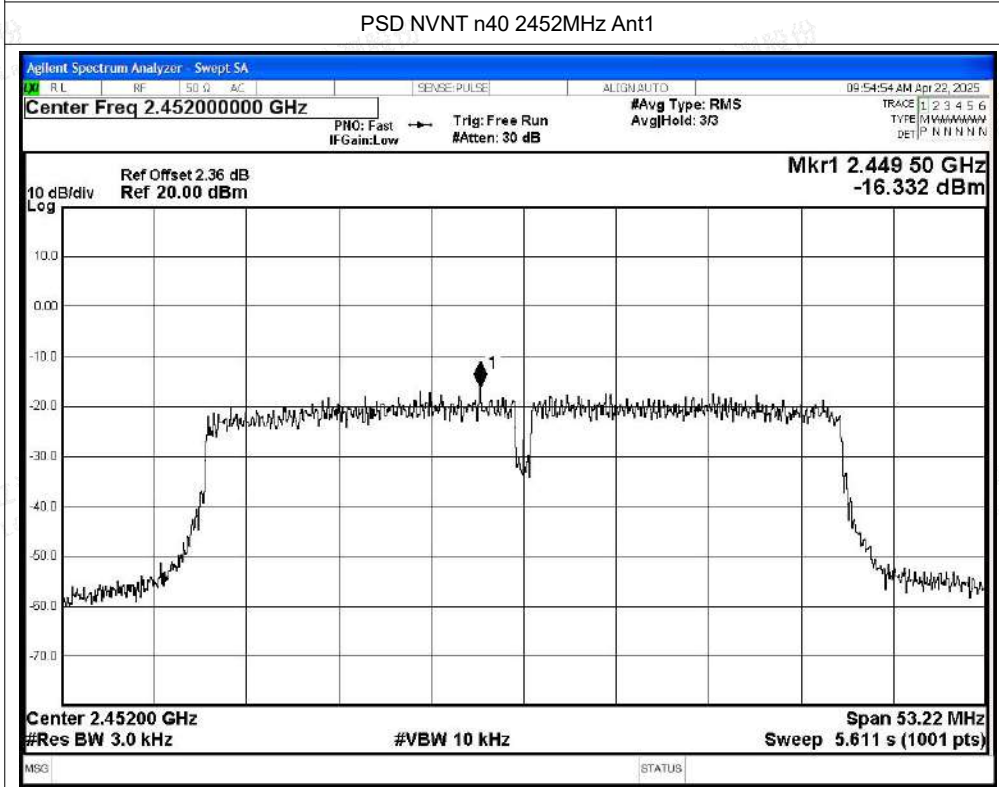
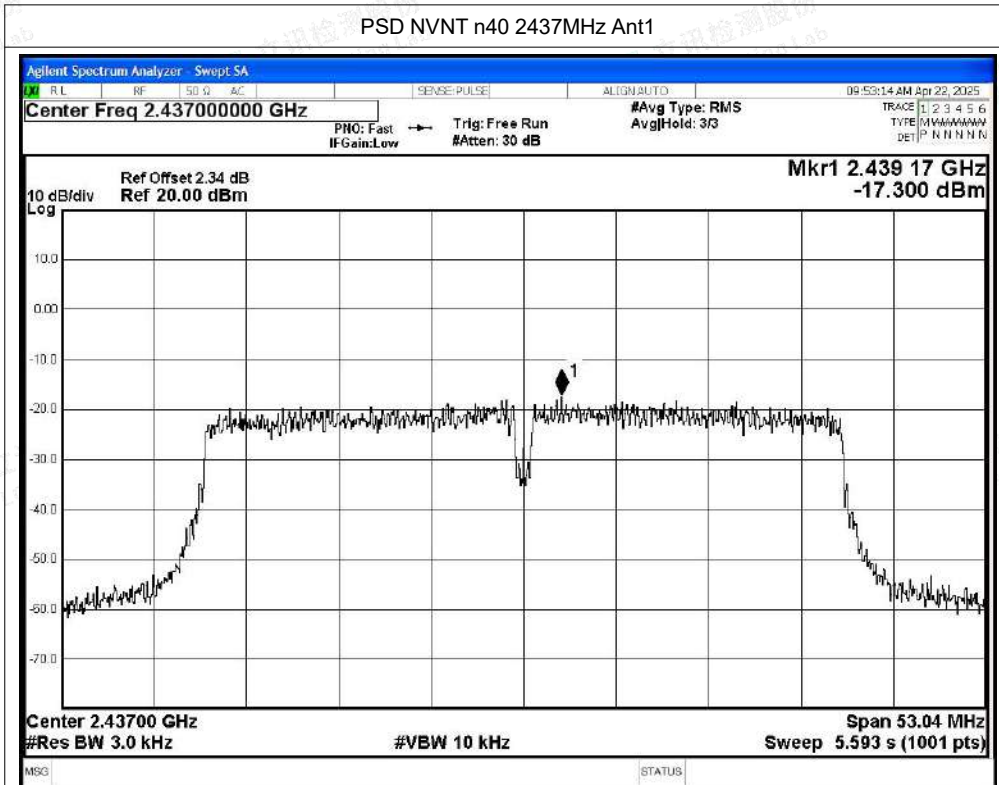


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A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.08	-20	Pass
NVNT	b	2462	Ant1	-60.47	-20	Pass
NVNT	g	2412	Ant1	-33.23	-20	Pass
NVNT	g	2462	Ant1	-45.84	-20	Pass
NVNT	n20	2412	Ant1	-29.62	-20	Pass
NVNT	n20	2462	Ant1	-40.69	-20	Pass
NVNT	n40	2422	Ant1	-35.17	-20	Pass
NVNT	n40	2452	Ant1	-37.85	-20	Pass





Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



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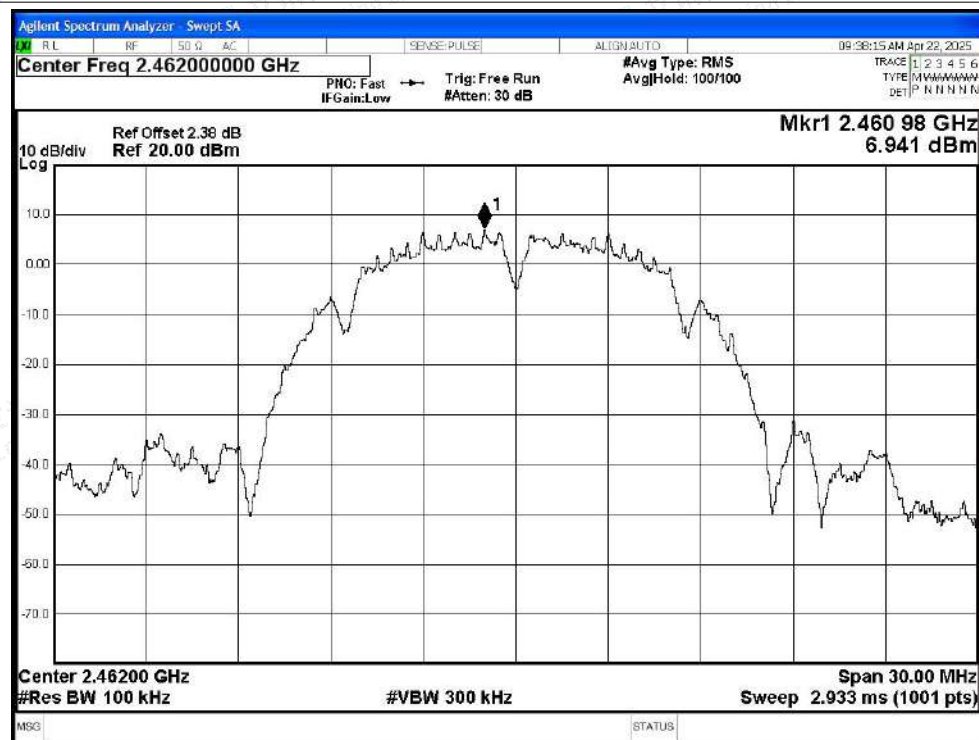
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Band Edge NVNT b 2462MHz Ant1 Ref

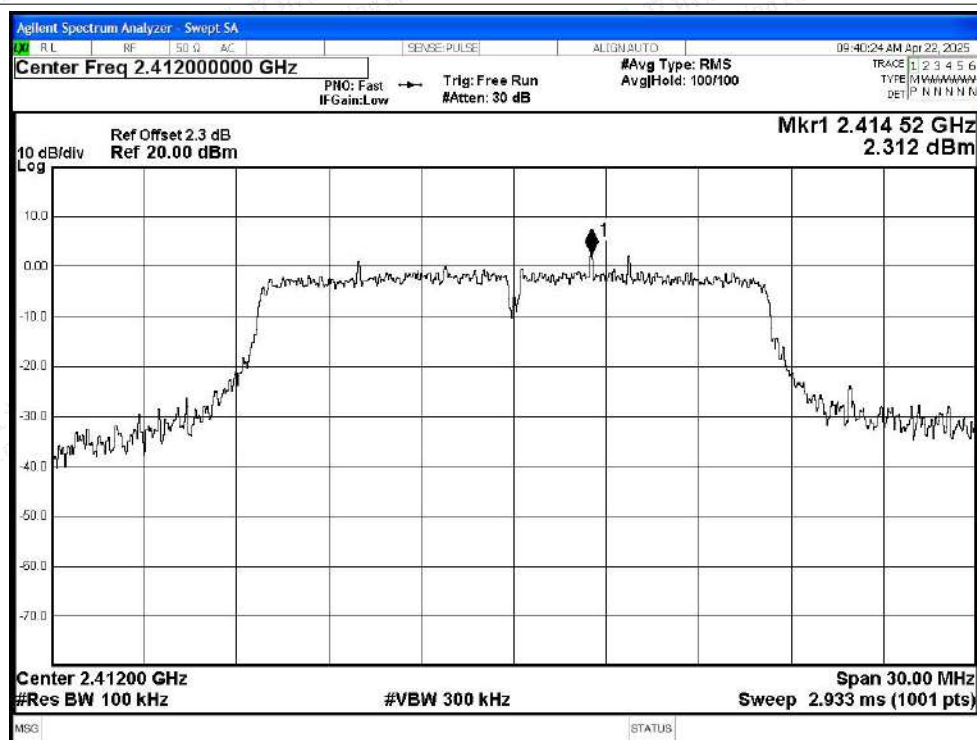


Band Edge NVNT b 2462MHz Ant1 Emission

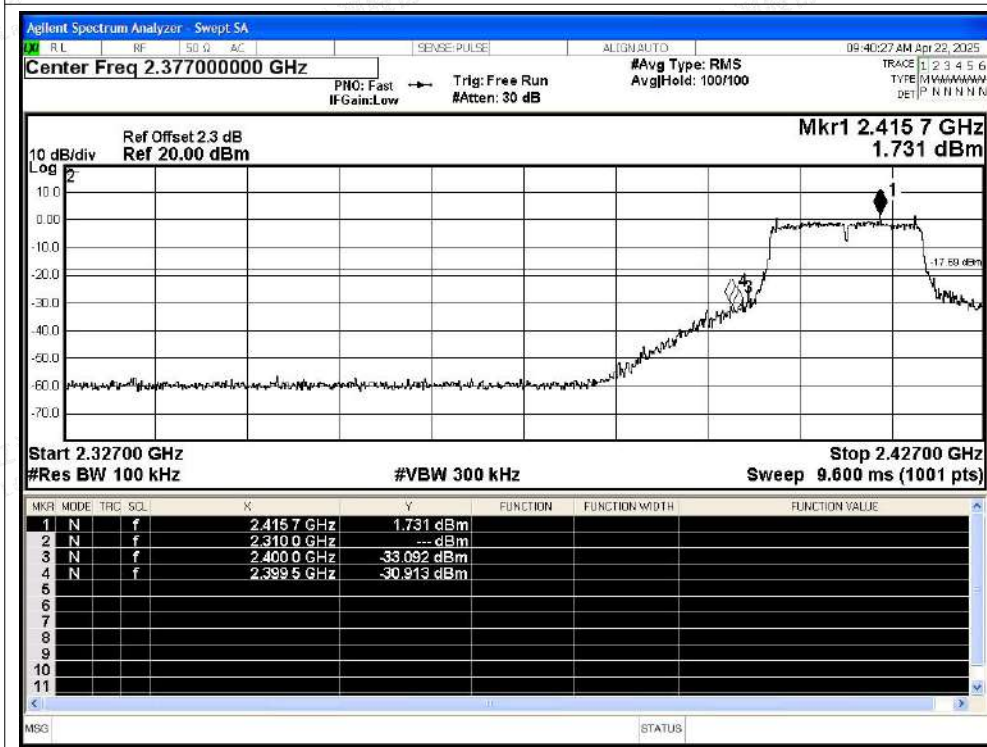




Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

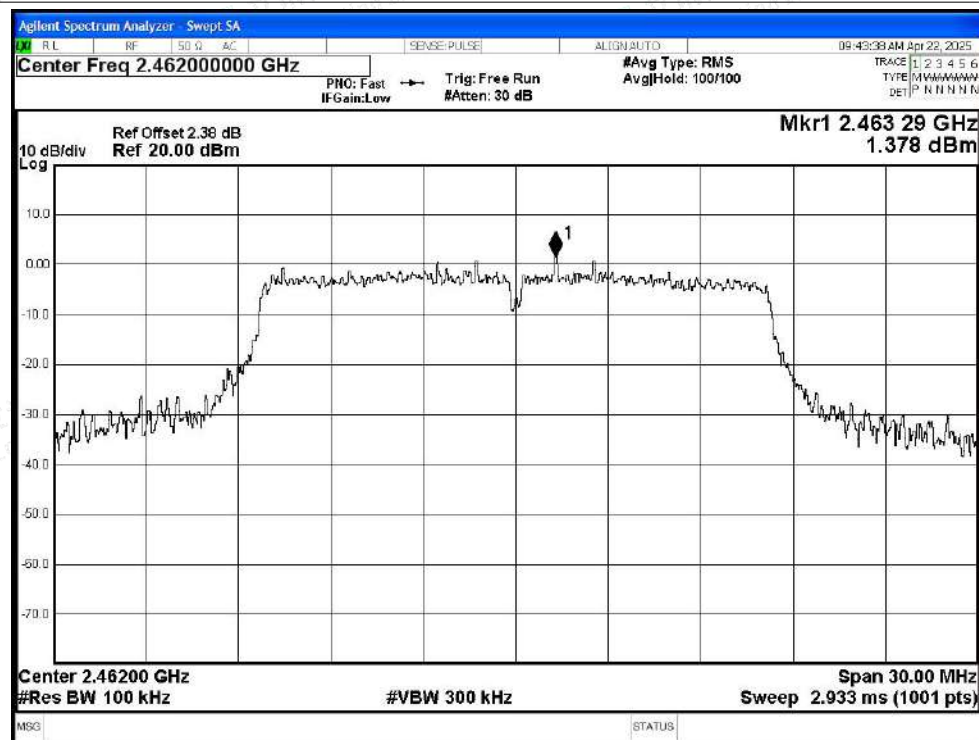
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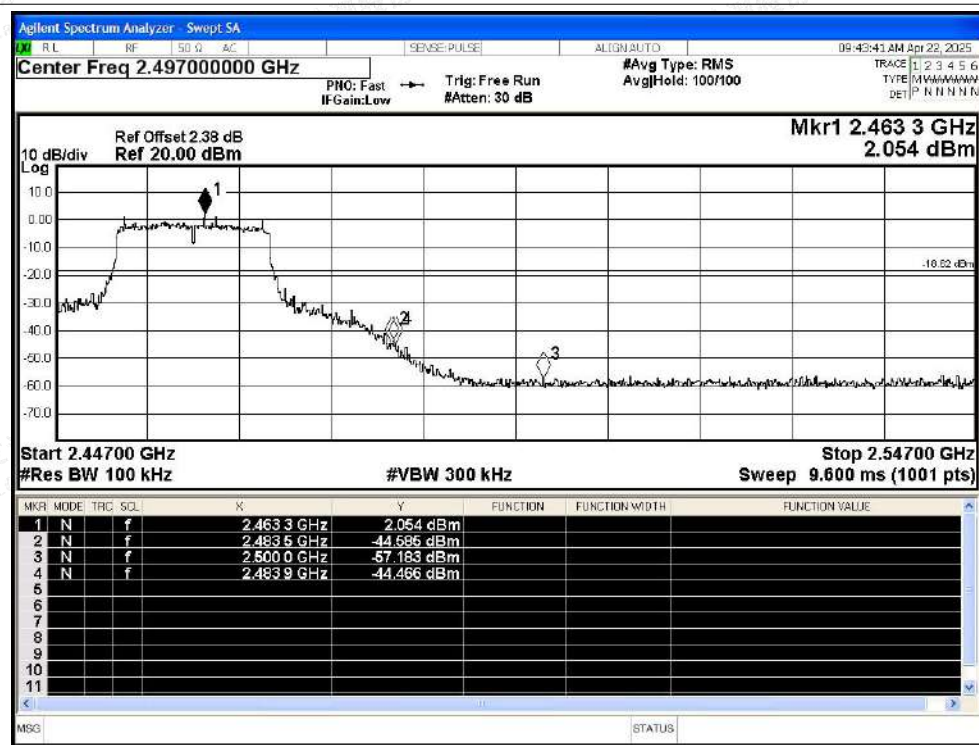
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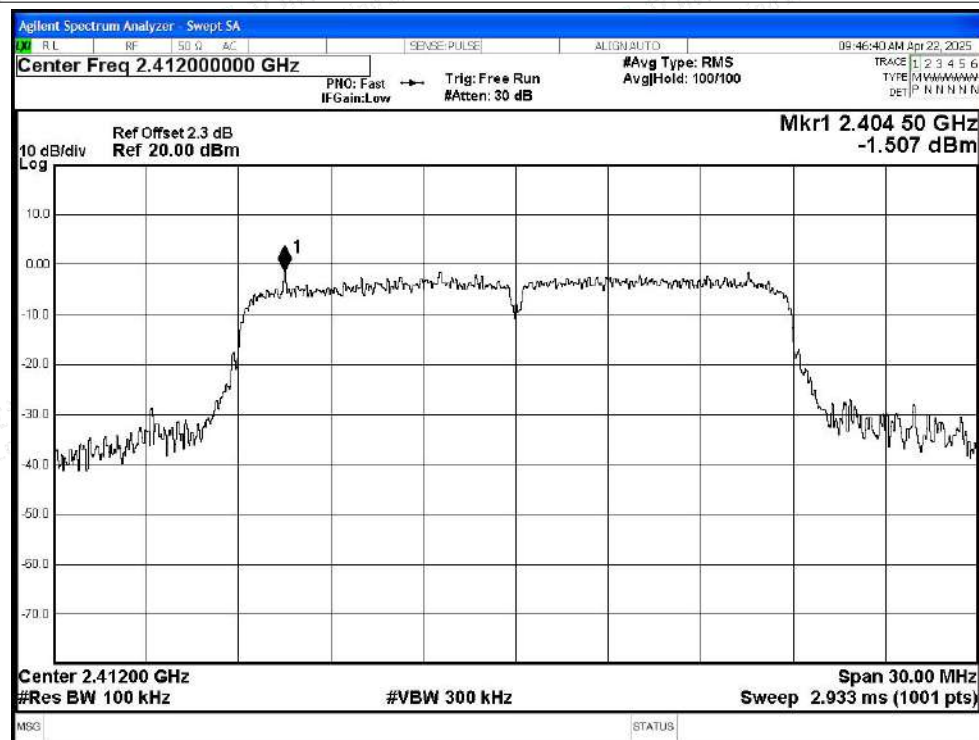


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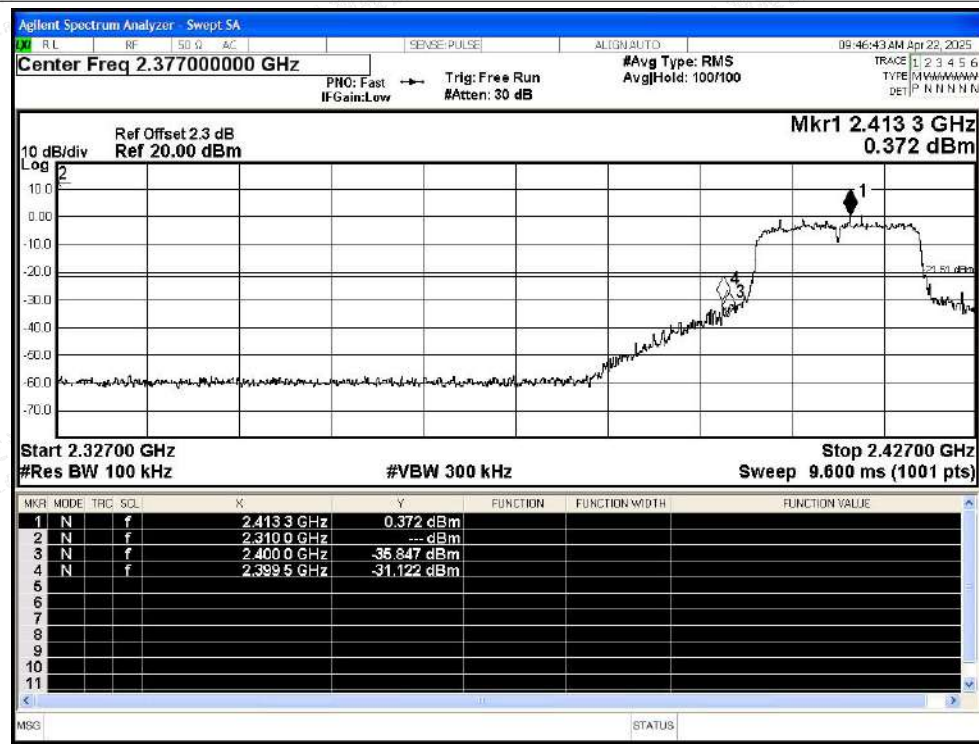




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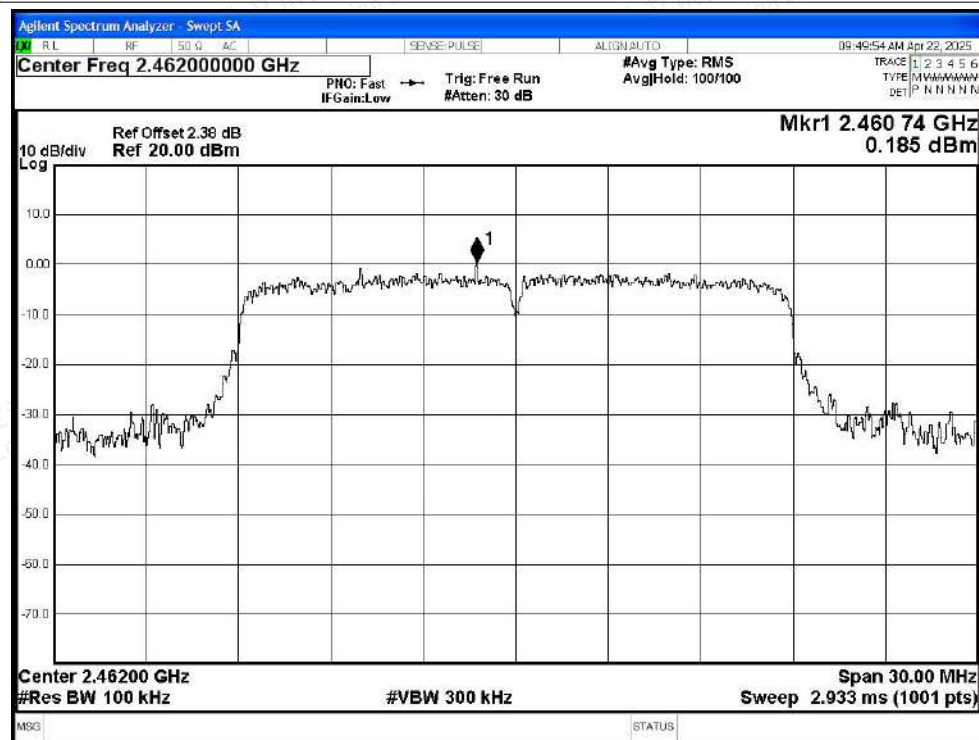


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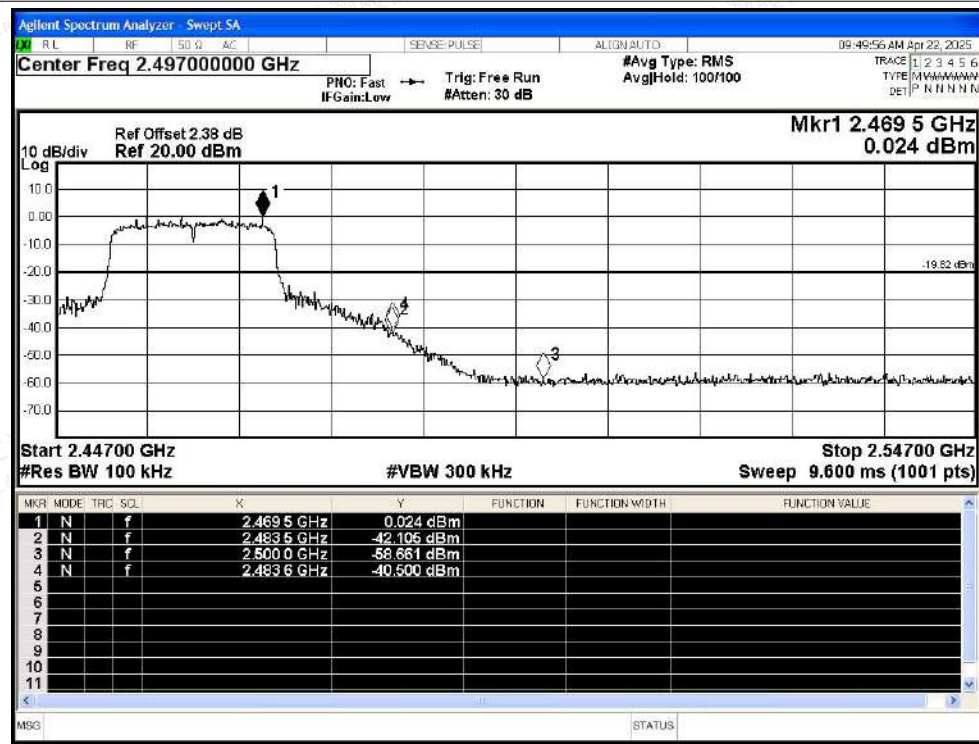




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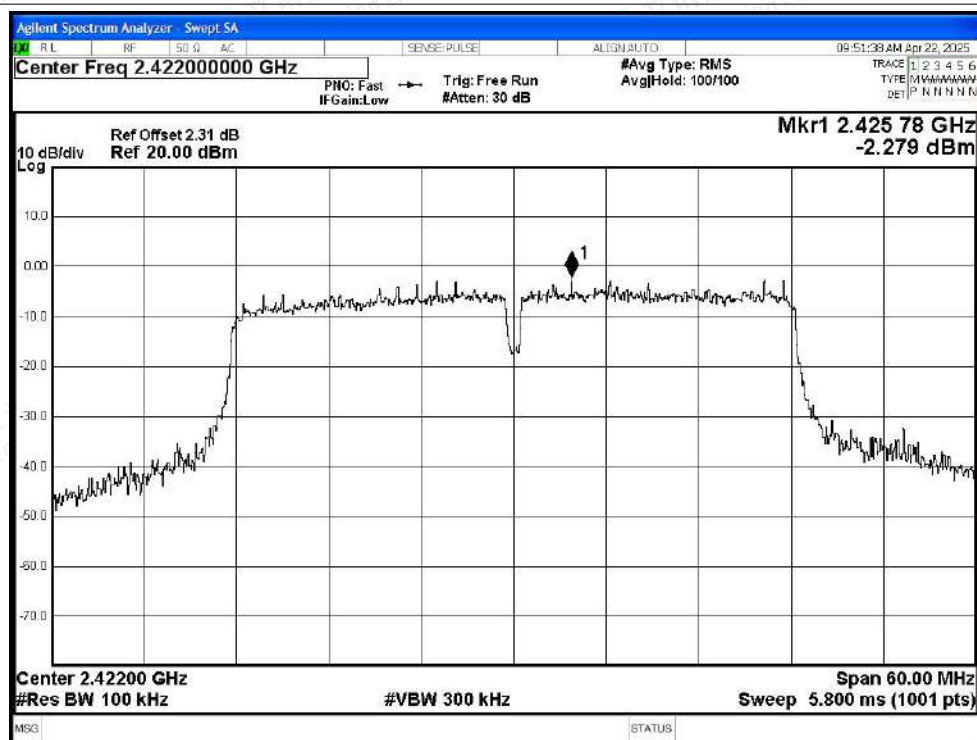


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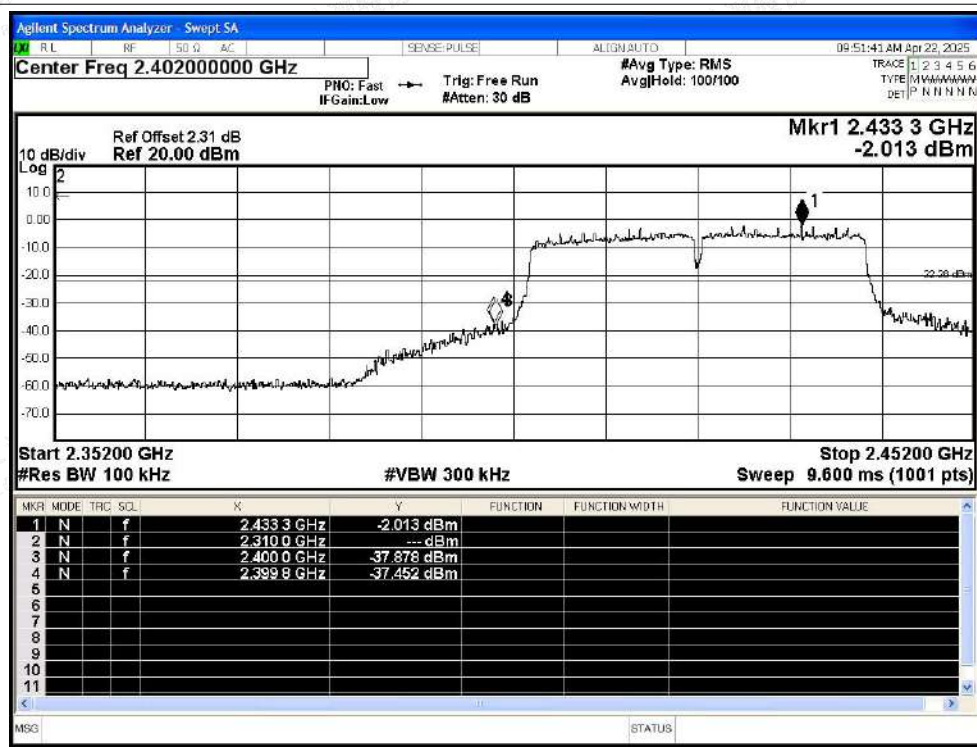




Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission



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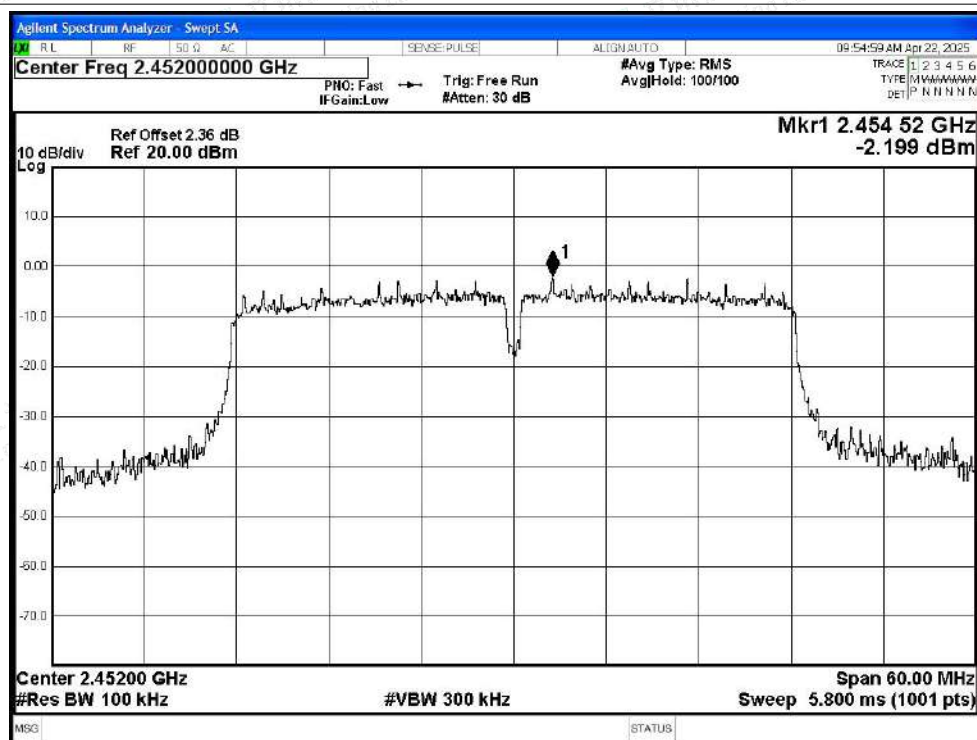
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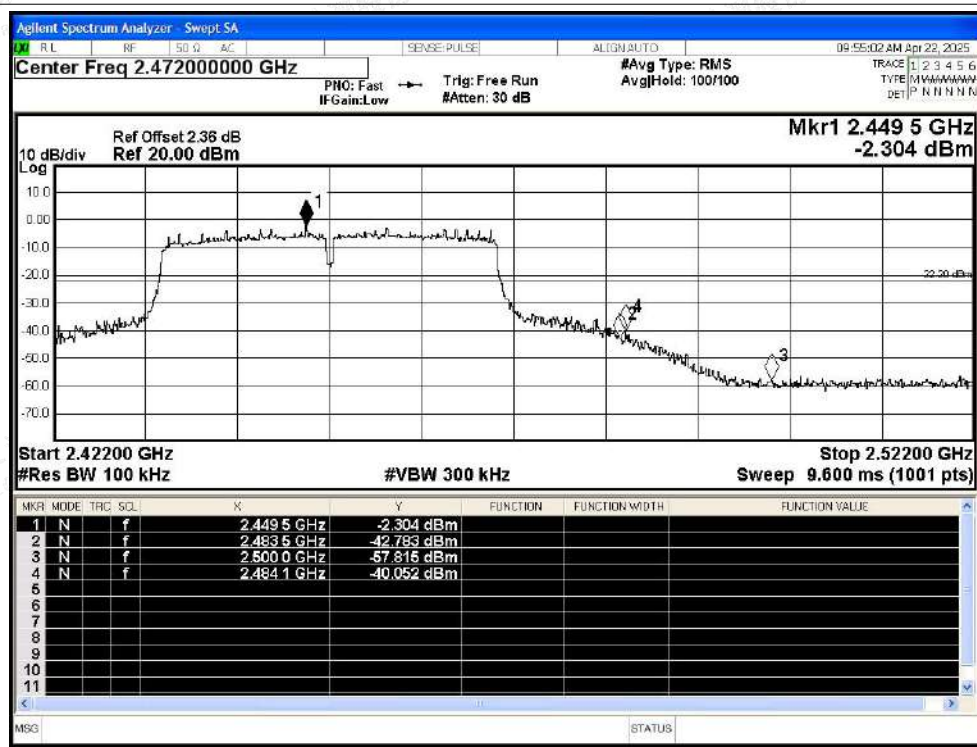
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Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission



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A.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-52.49	-20	Pass
NVNT	b	2437	Ant1	-53.17	-20	Pass
NVNT	b	2462	Ant1	-51.5	-20	Pass
NVNT	g	2412	Ant1	-47.5	-20	Pass
NVNT	g	2437	Ant1	-47.55	-20	Pass
NVNT	g	2462	Ant1	-47.23	-20	Pass
NVNT	n20	2412	Ant1	-45.99	-20	Pass
NVNT	n20	2437	Ant1	-45.86	-20	Pass
NVNT	n20	2462	Ant1	-46.38	-20	Pass
NVNT	n40	2422	Ant1	-44.3	-20	Pass
NVNT	n40	2437	Ant1	-43.58	-20	Pass
NVNT	n40	2452	Ant1	-42.63	-20	Pass



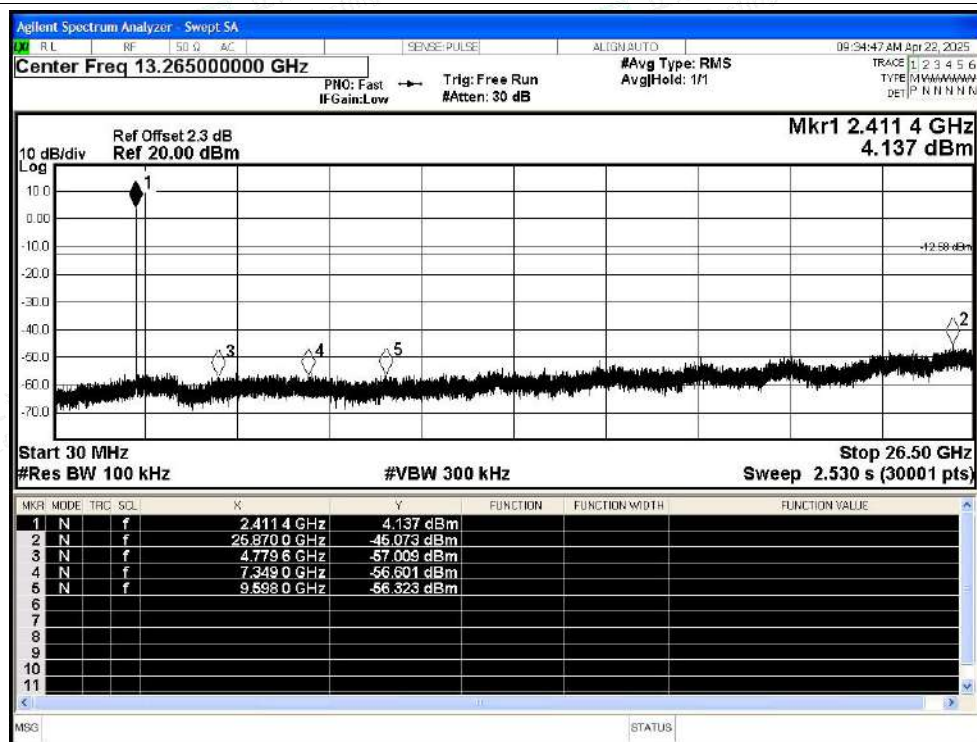


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



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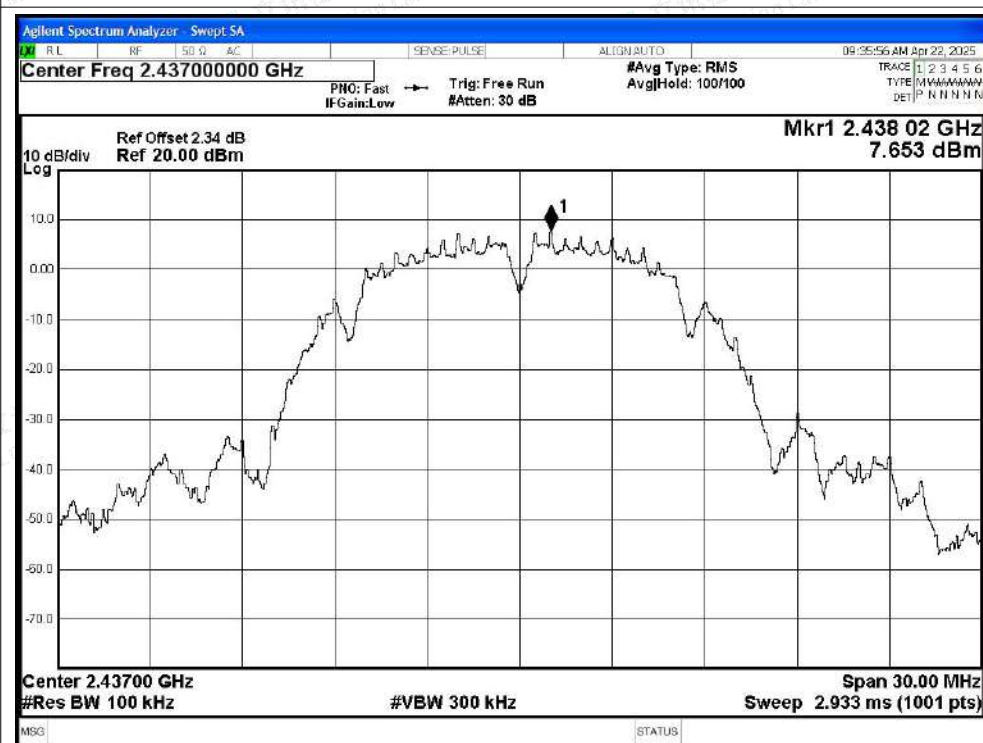
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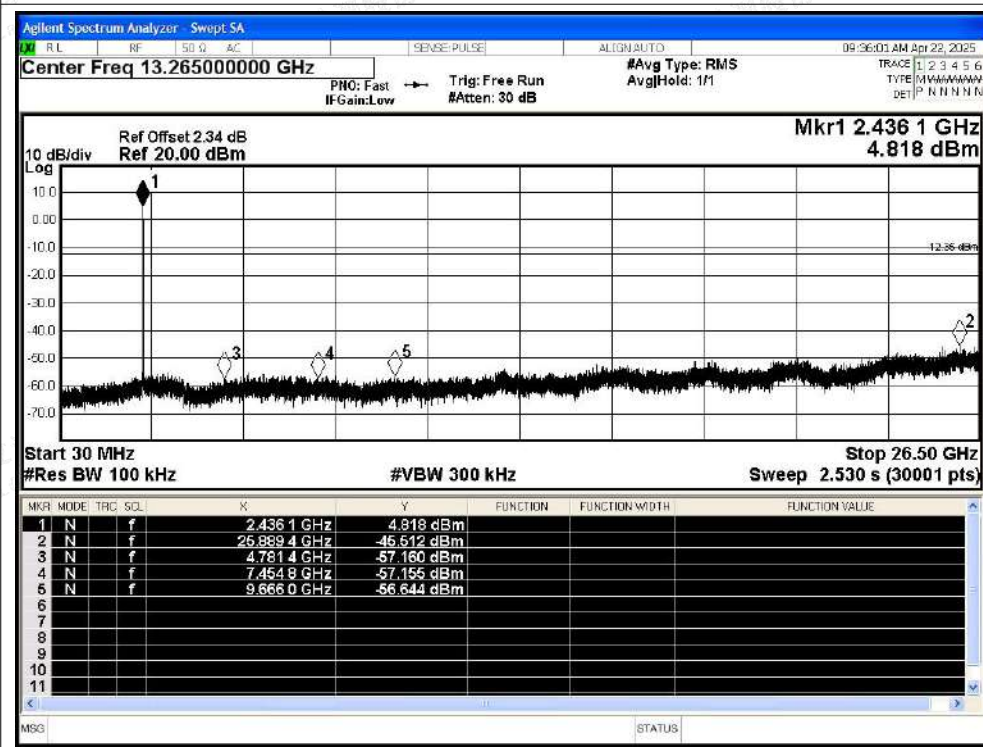
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Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



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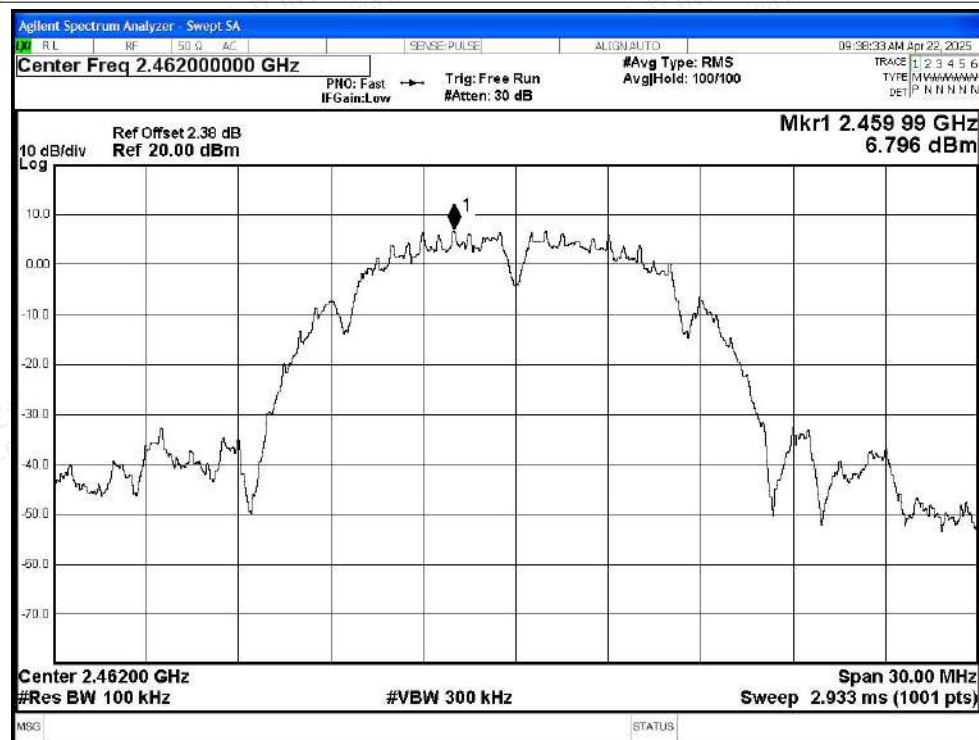
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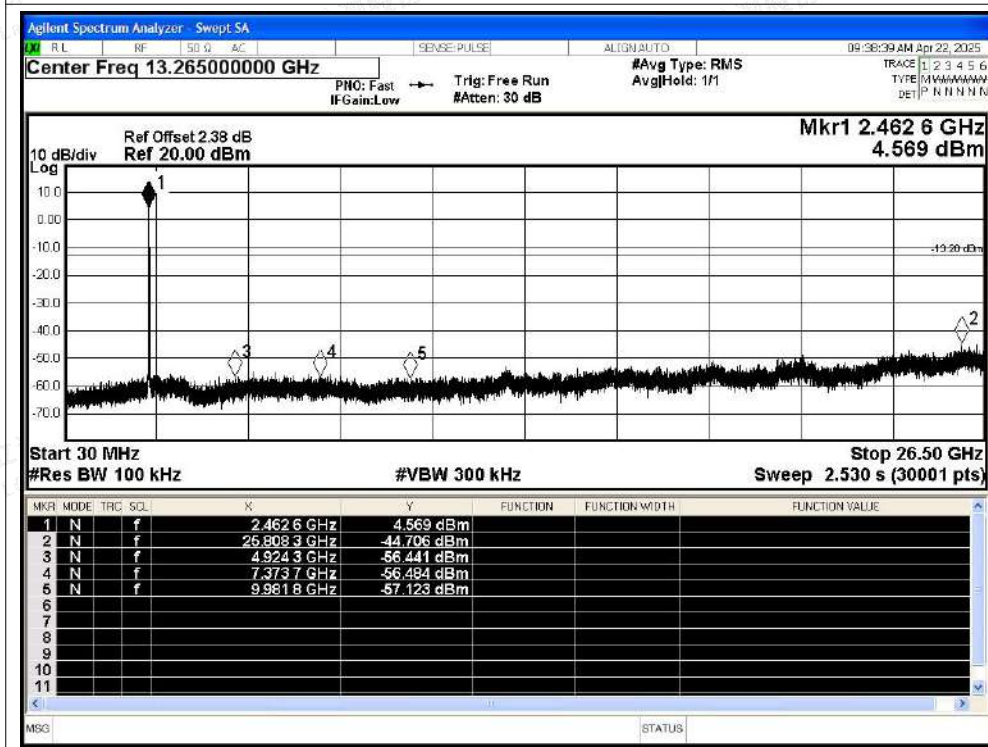
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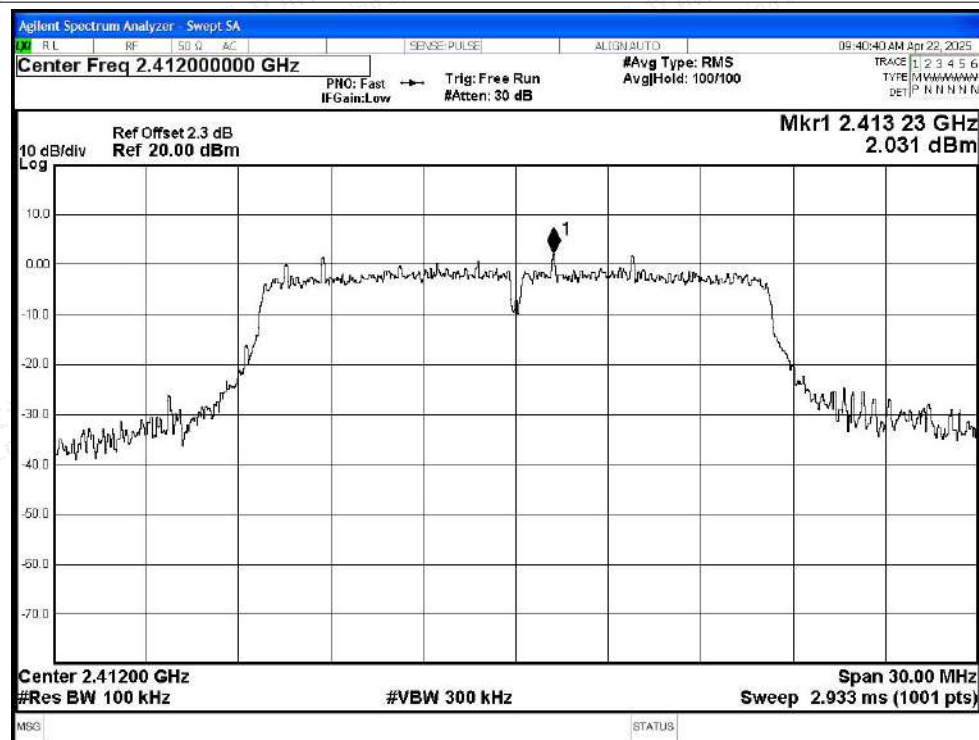


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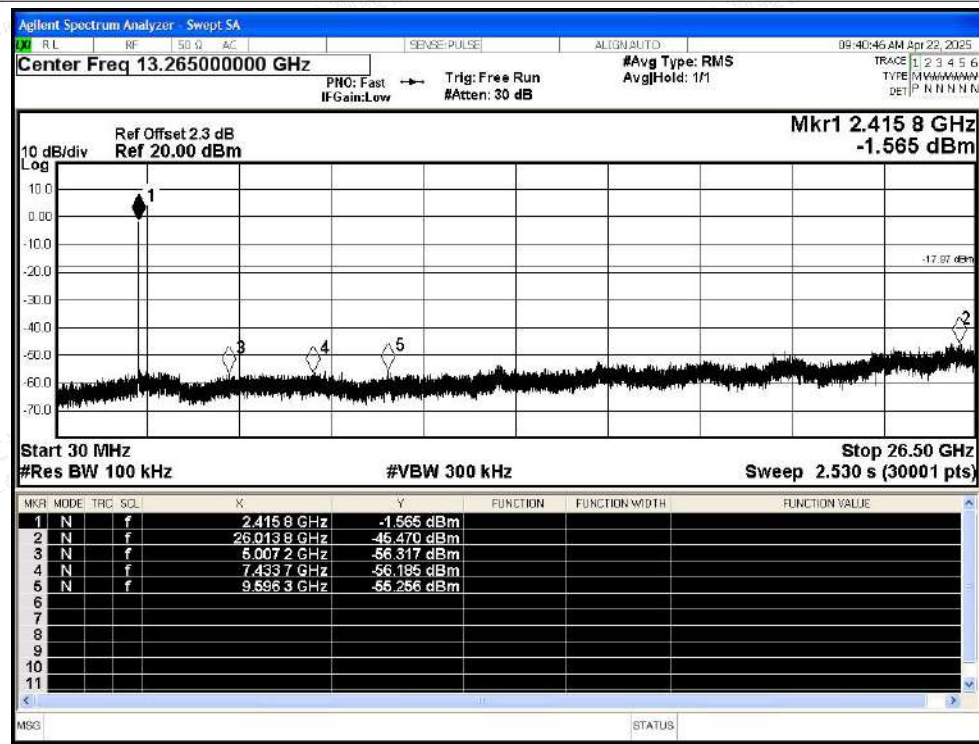




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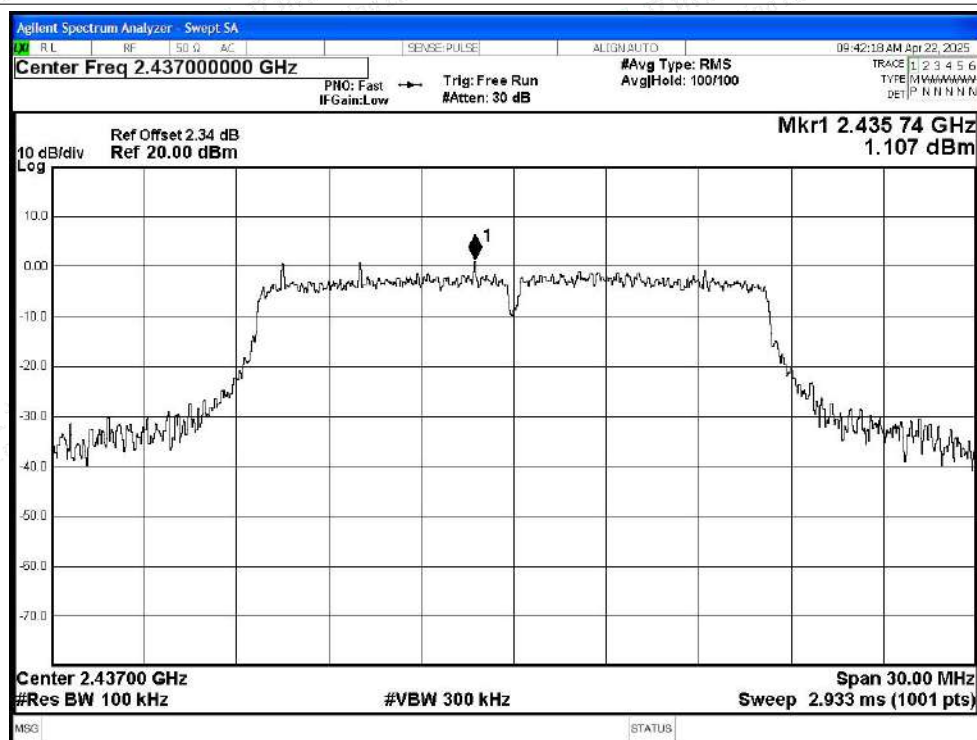


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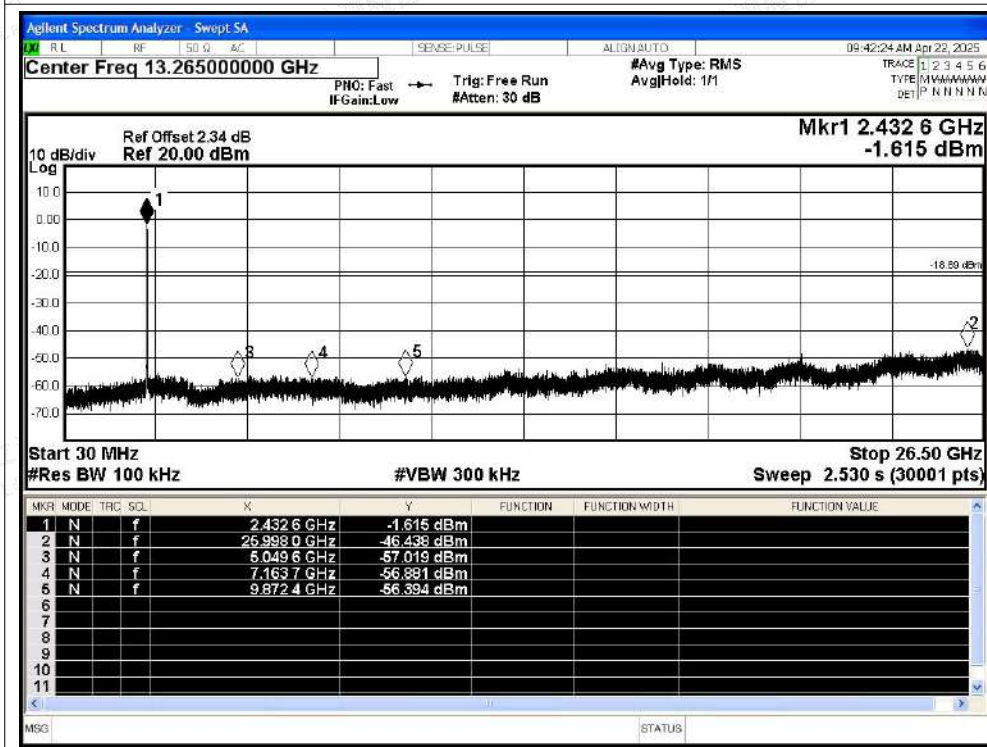




Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission



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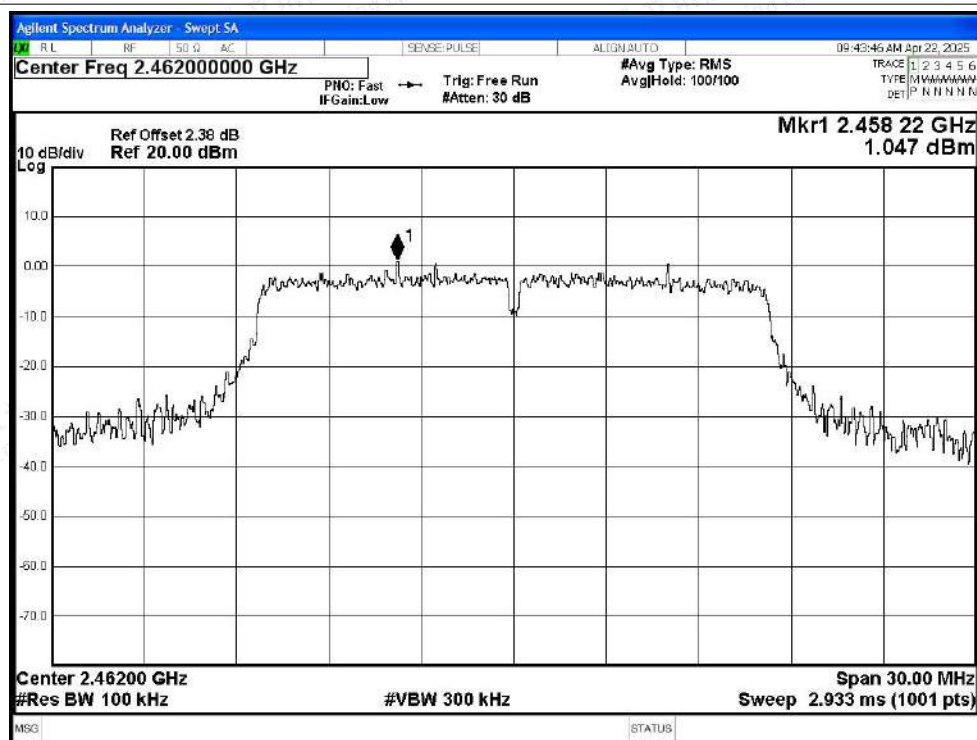
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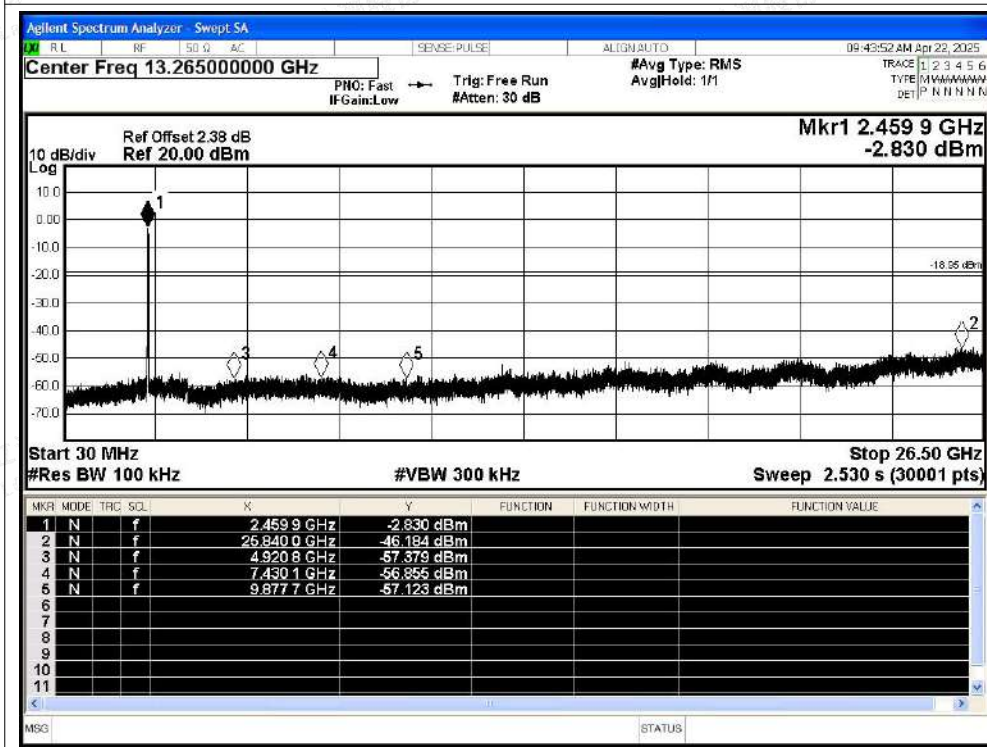
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Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

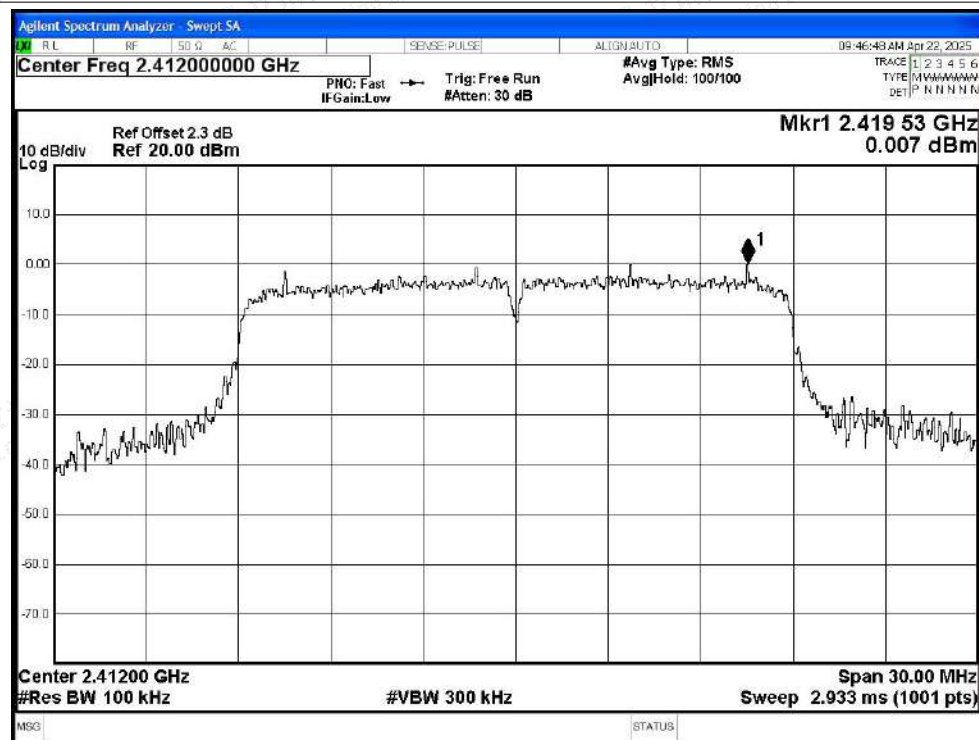
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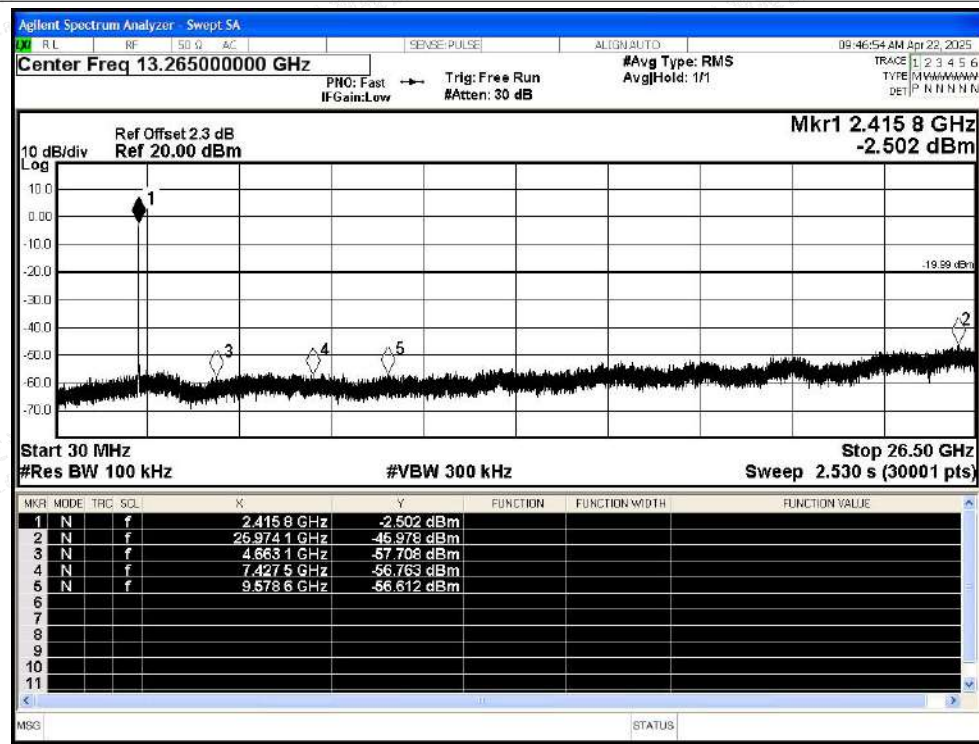
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Tx. Spurious NVNT n20 2412MHz Ant1 Ref

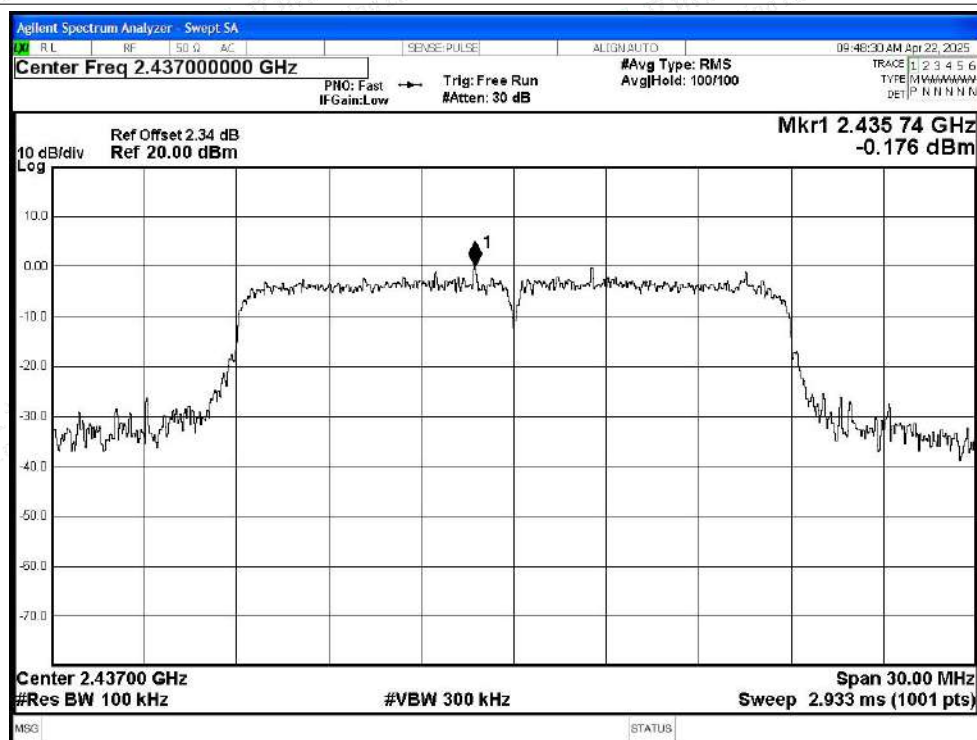


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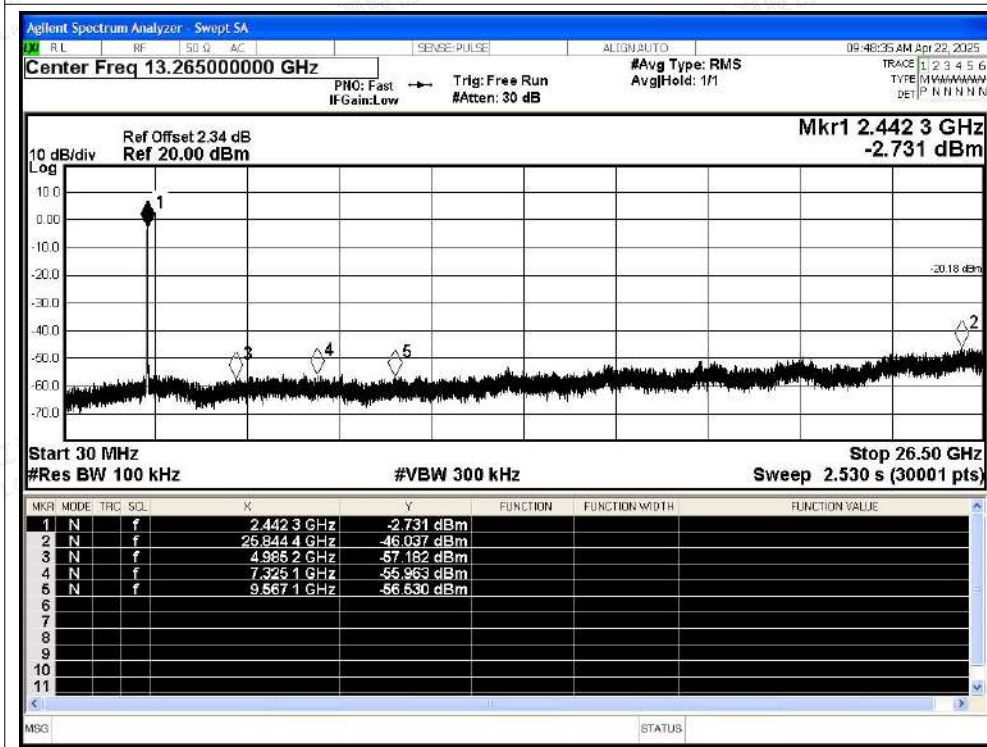




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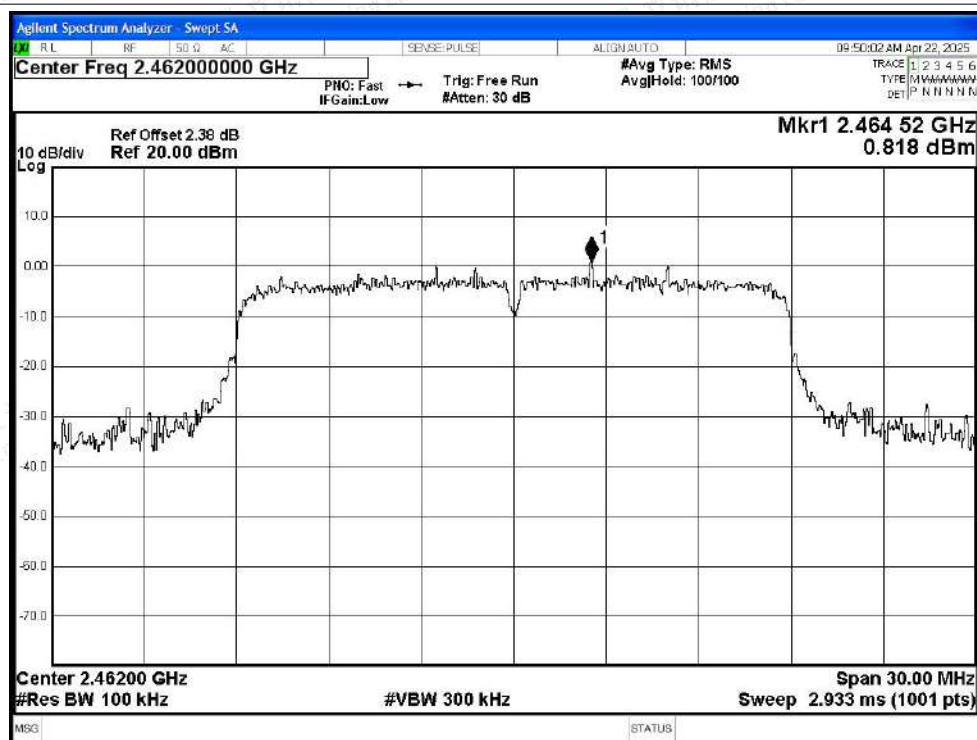


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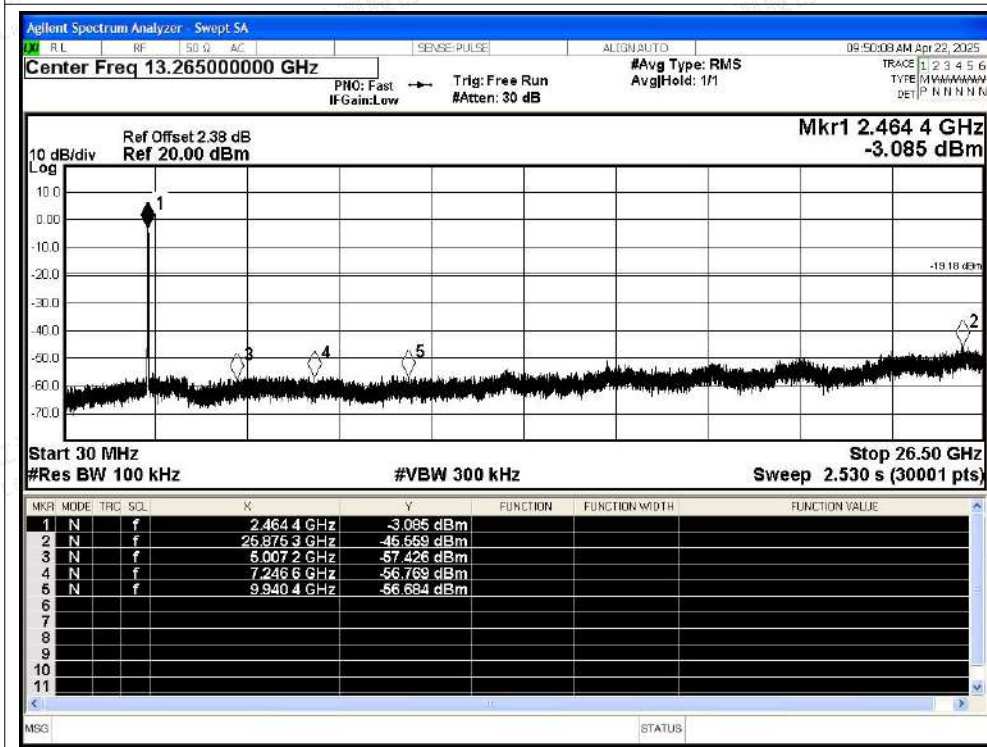




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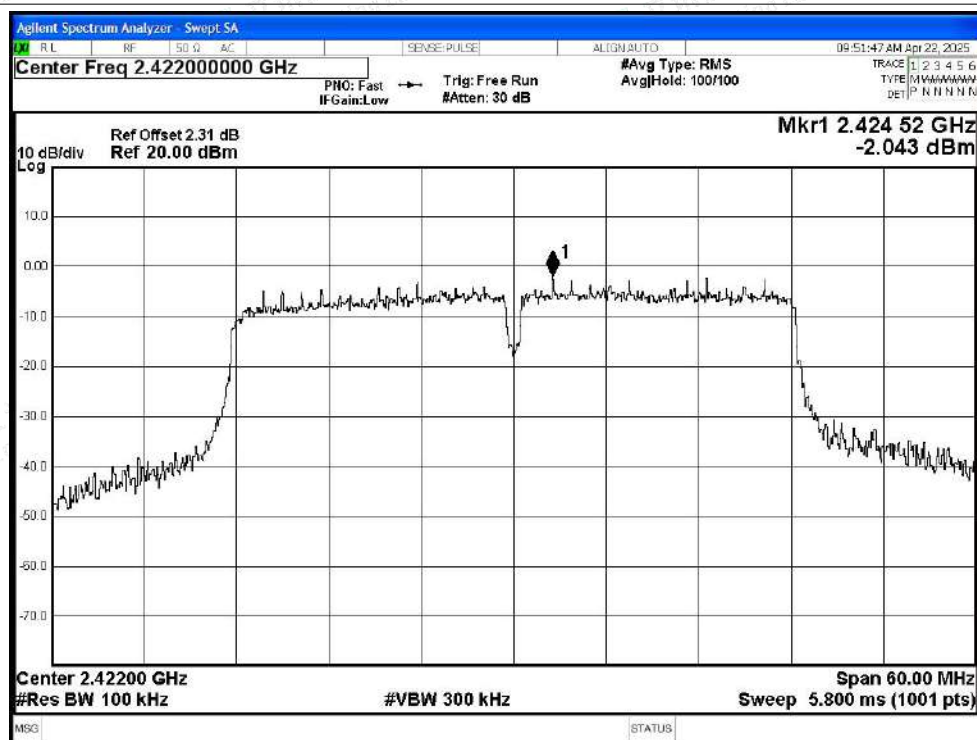


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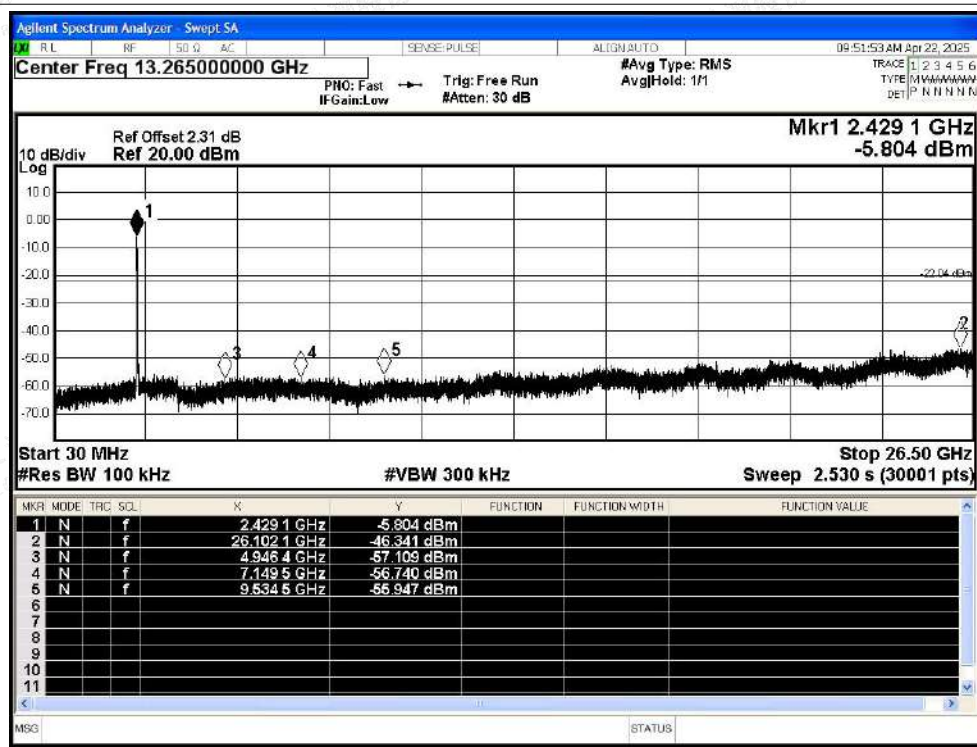




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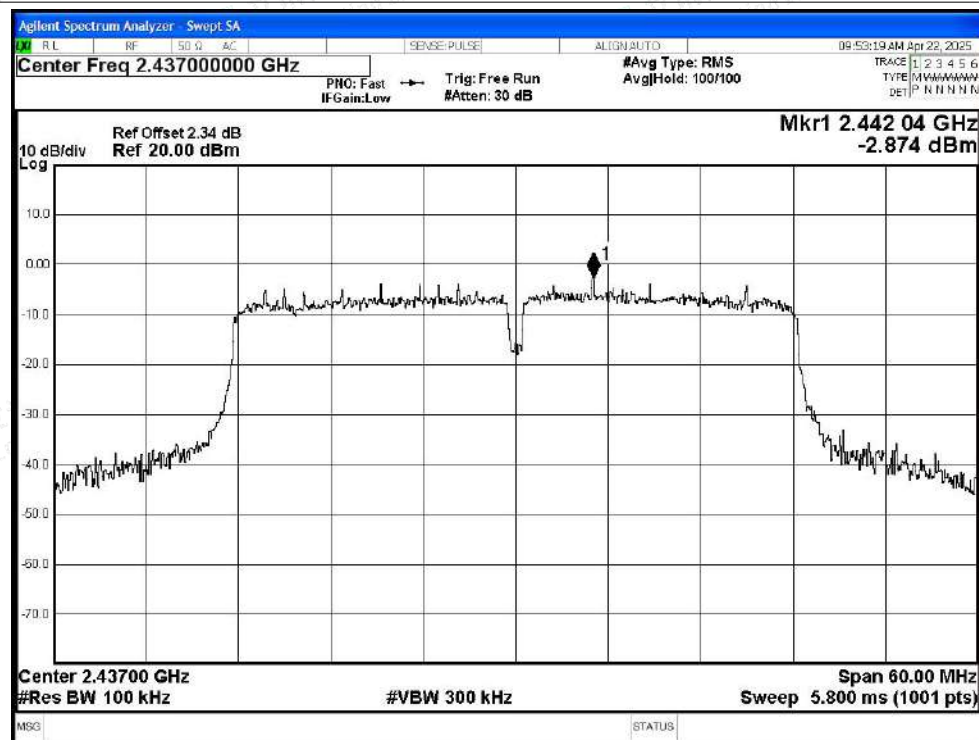


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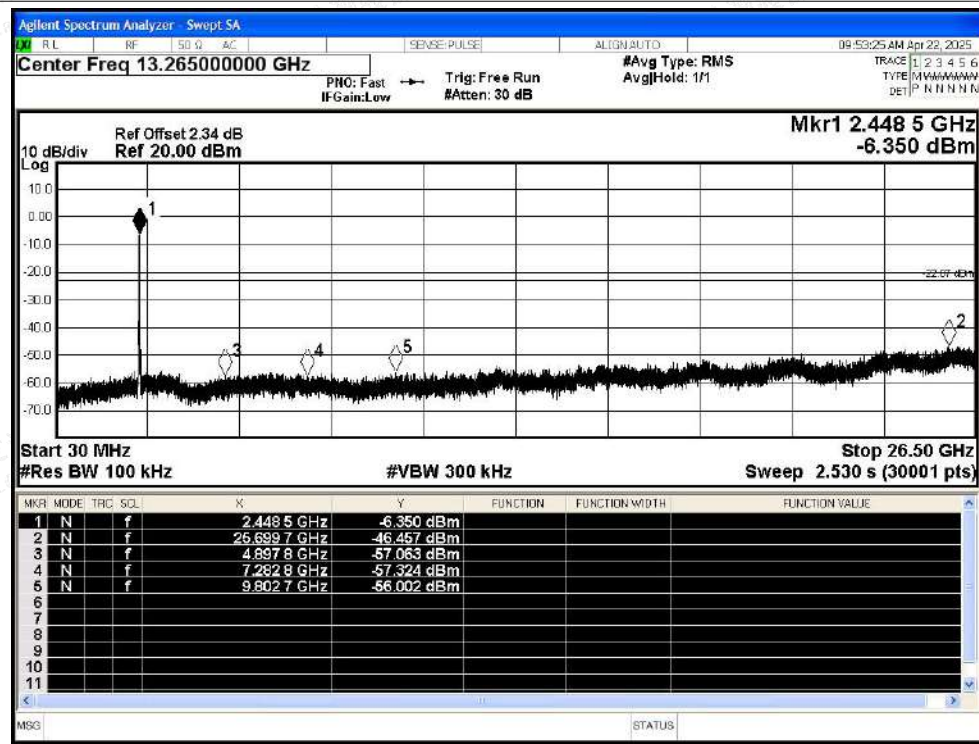




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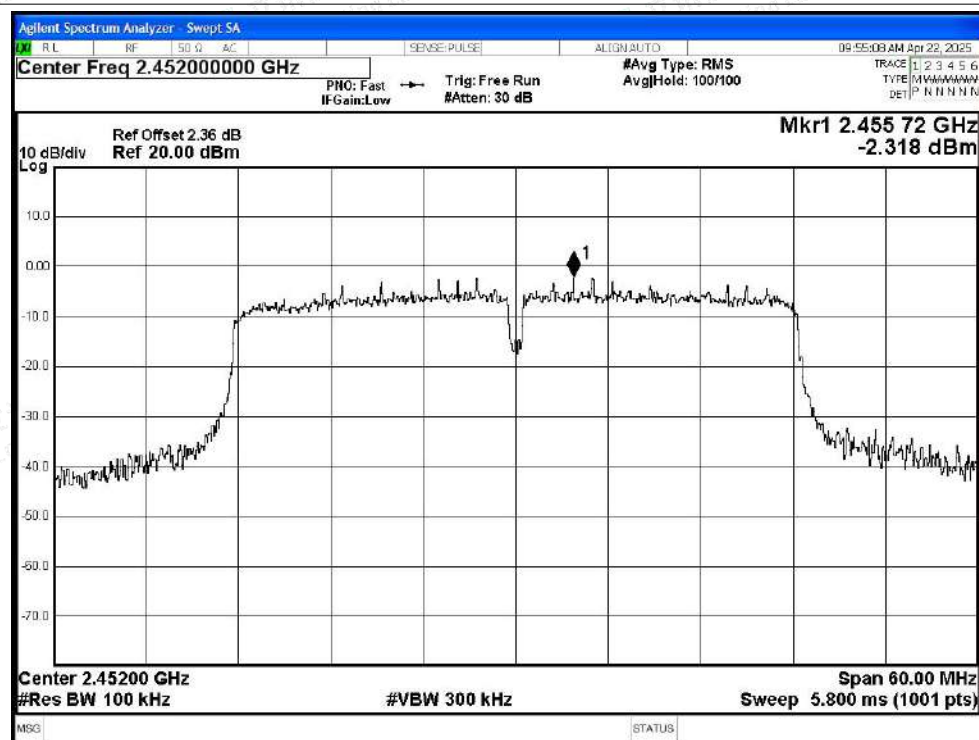


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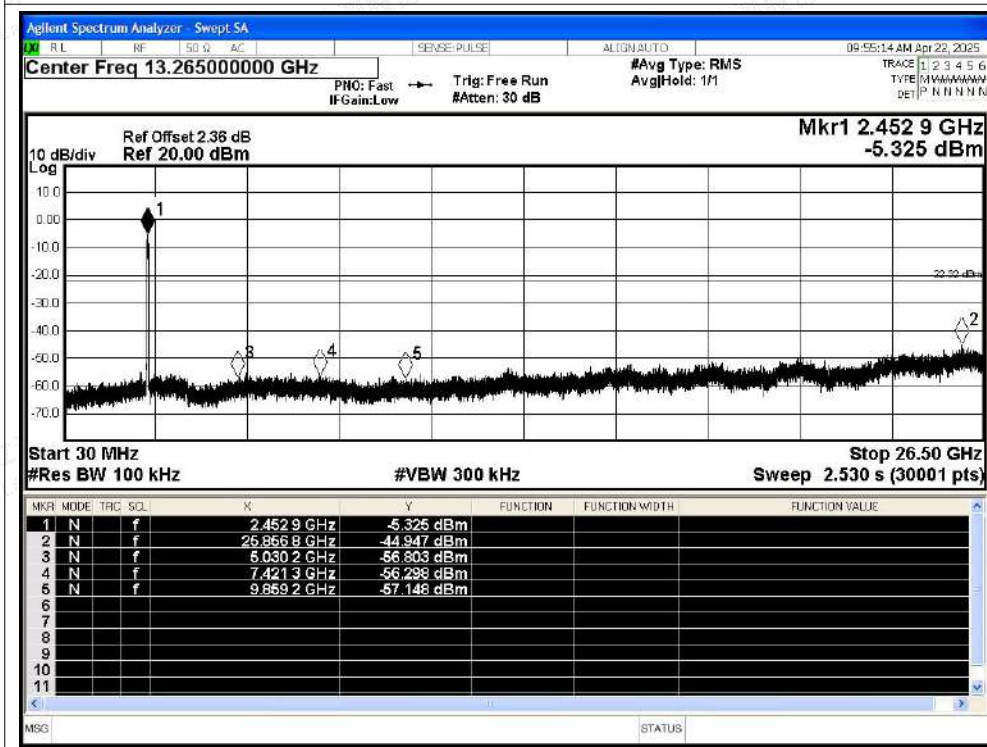




Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission



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A.6 Duty Cycle

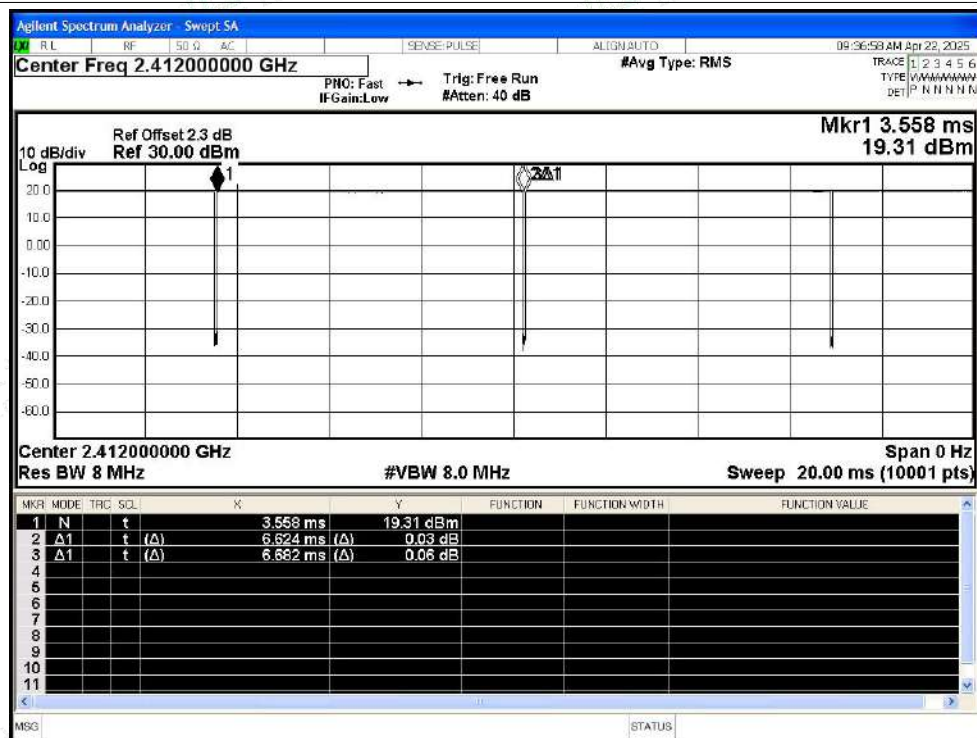
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NVNT	b	2412	Ant1	99.13	0	0.15
NVNT	b	2437	Ant1	99.16	0	0.15
NVNT	b	2462	Ant1	99.16	0	0.15
NVNT	g	2412	Ant1	97.68	0.1	0.37
NVNT	g	2437	Ant1	97.75	0.1	0.37
NVNT	g	2462	Ant1	97.75	0.1	0.37
NVNT	n20	2412	Ant1	97.33	0.12	0.44
NVNT	n20	2437	Ant1	97.33	0.12	0.44
NVNT	n20	2462	Ant1	97.25	0.12	0.44
NVNT	n40	2422	Ant1	94.7	0.24	0.9
NVNT	n40	2437	Ant1	94.71	0.24	0.9
NVNT	n40	2452	Ant1	94.71	0.24	0.9



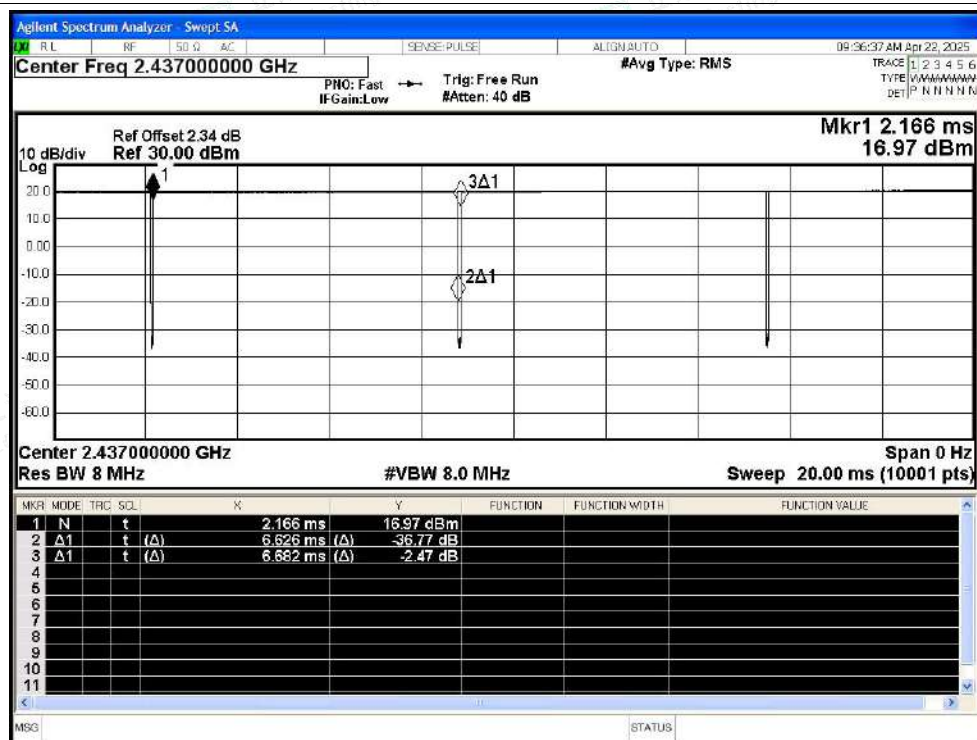


Test Graphs

Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1

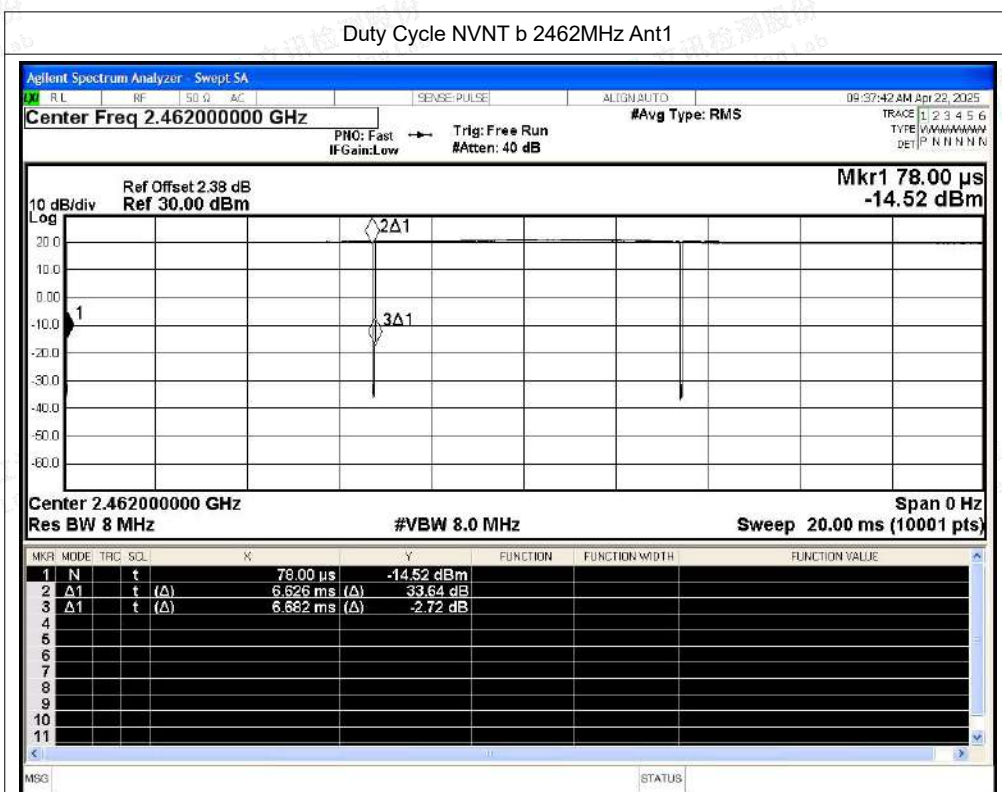


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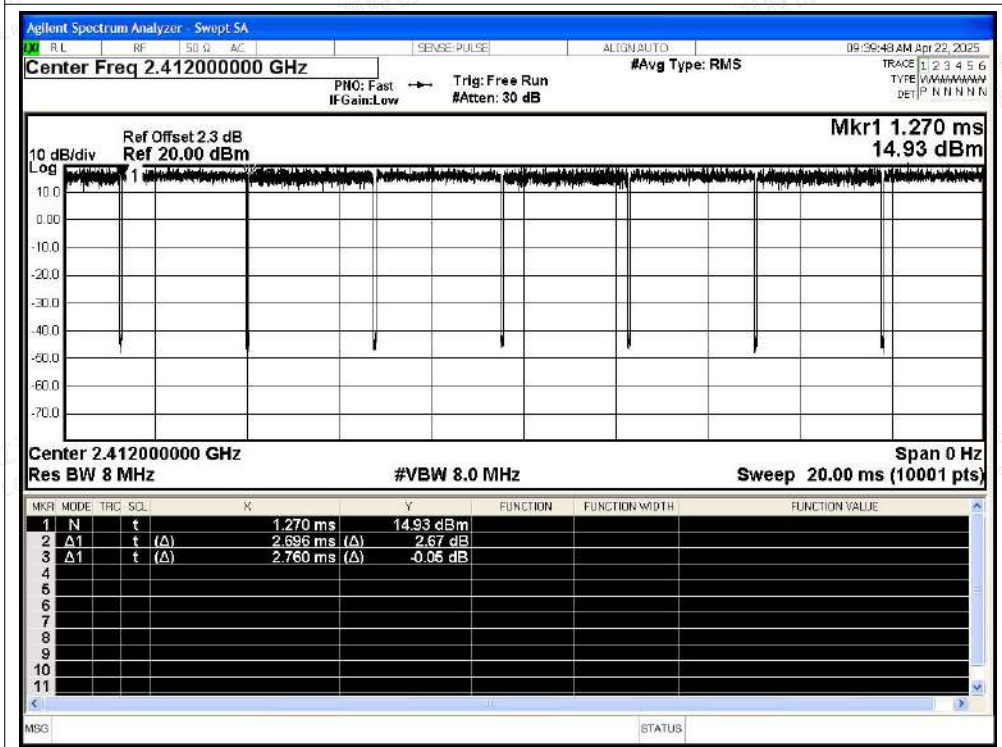
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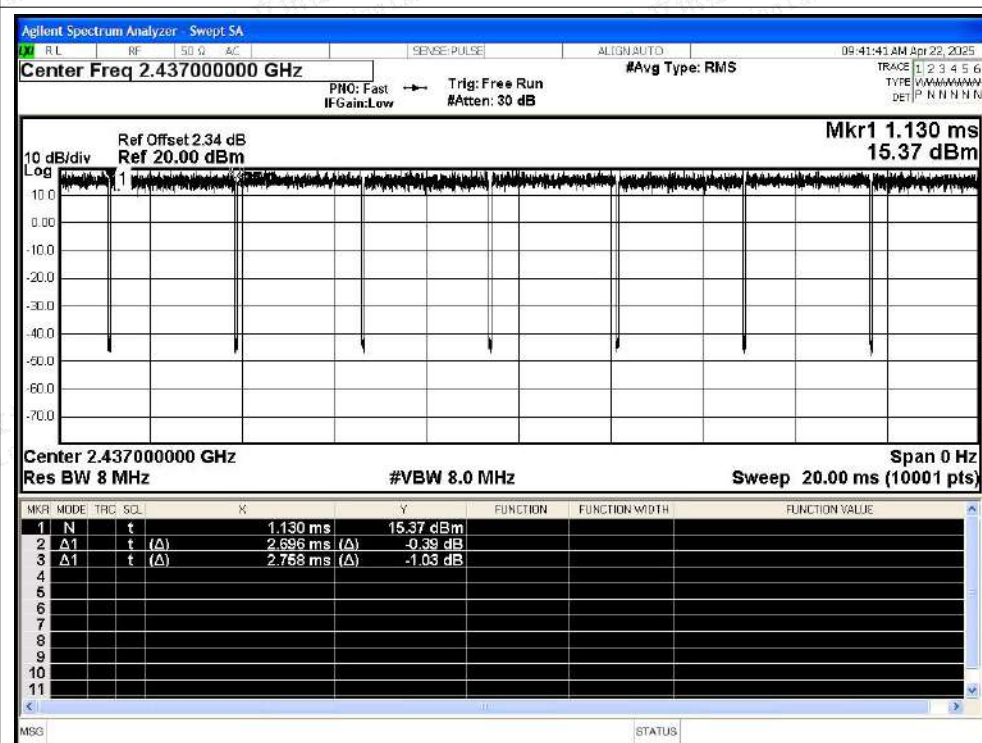


Duty Cycle NVNT g 2412MHz Ant1

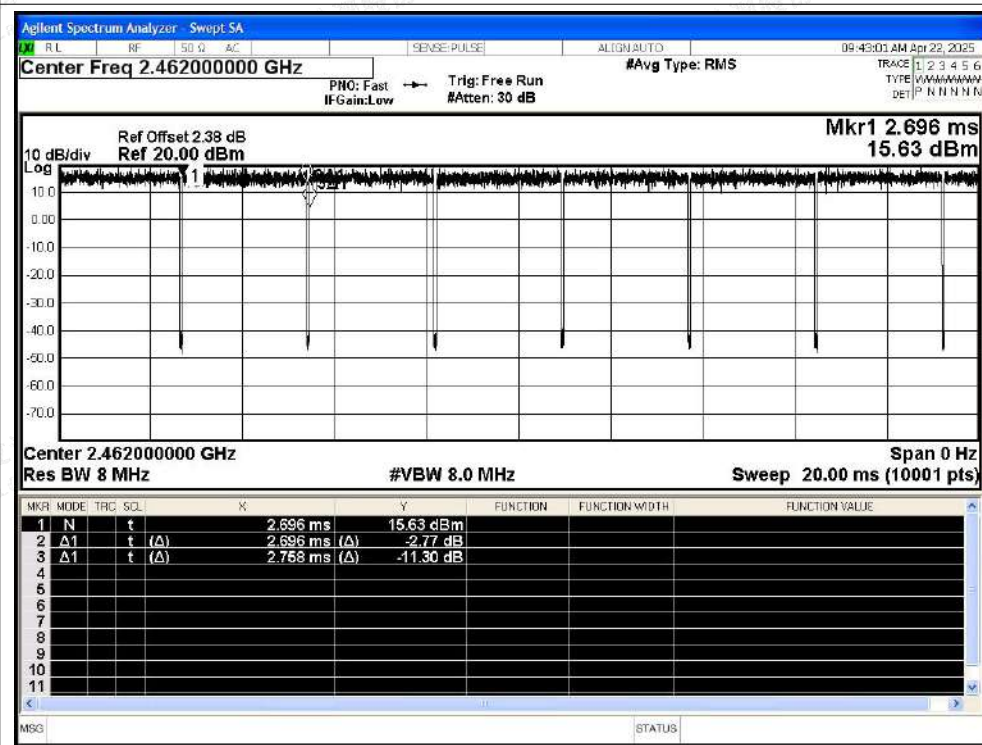




Duty Cycle NVNT g 2437MHz Ant1

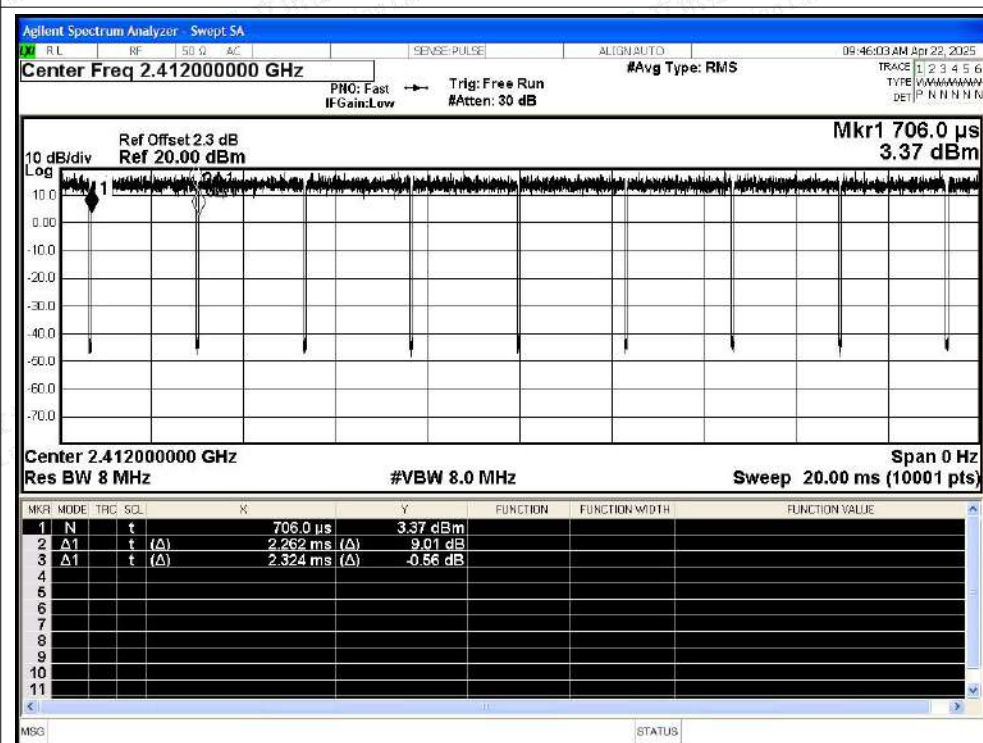


Duty Cycle NVNT g 2462MHz Ant1

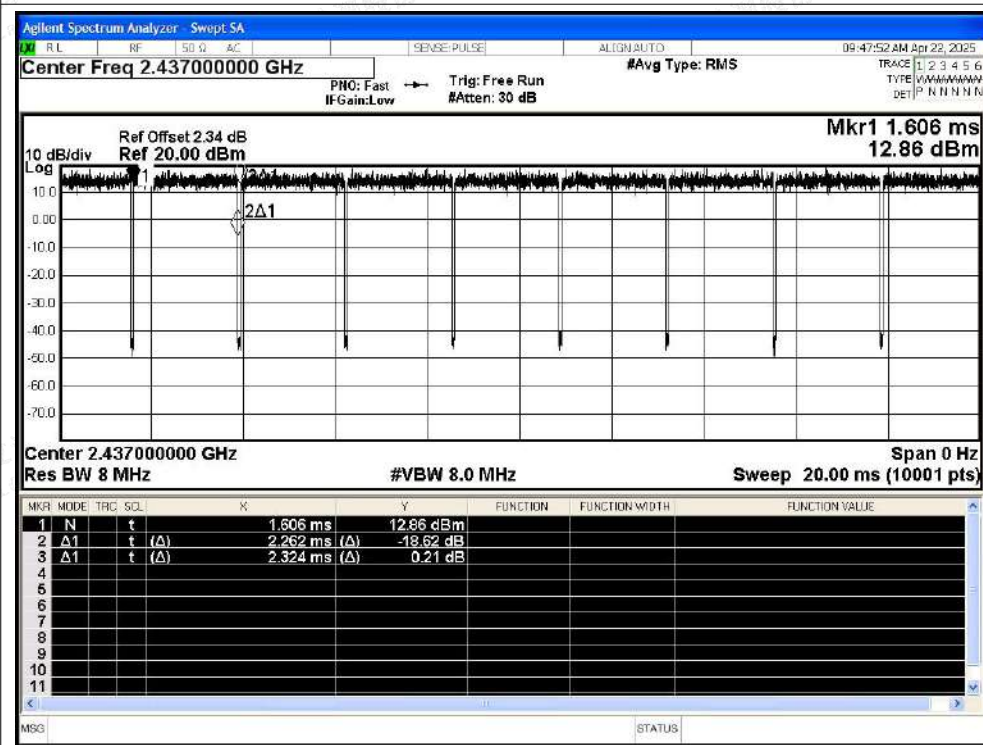




Duty Cycle NVNT n20 2412MHz Ant1

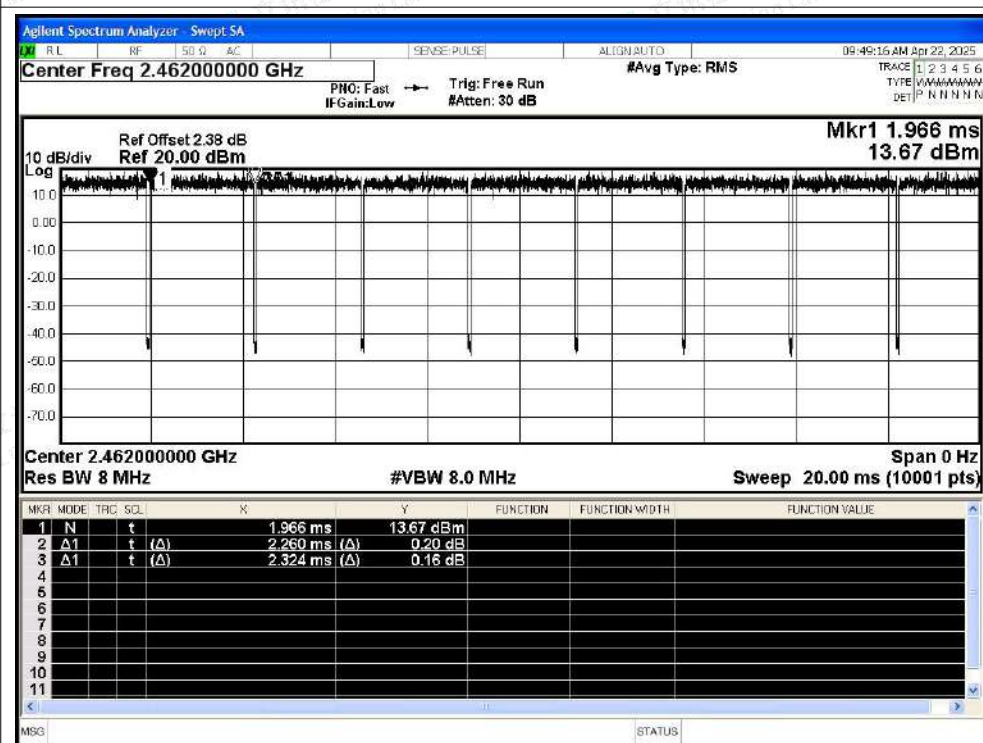


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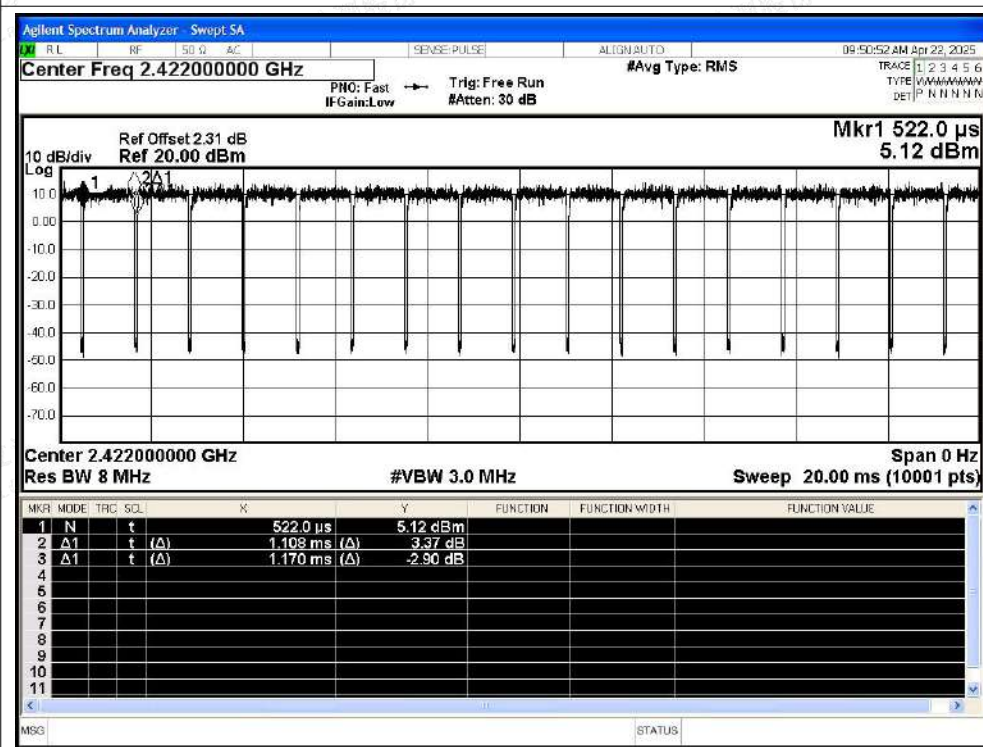




Duty Cycle NVNT n20 2462MHz Ant1



Duty Cycle NVNT n40 2422MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

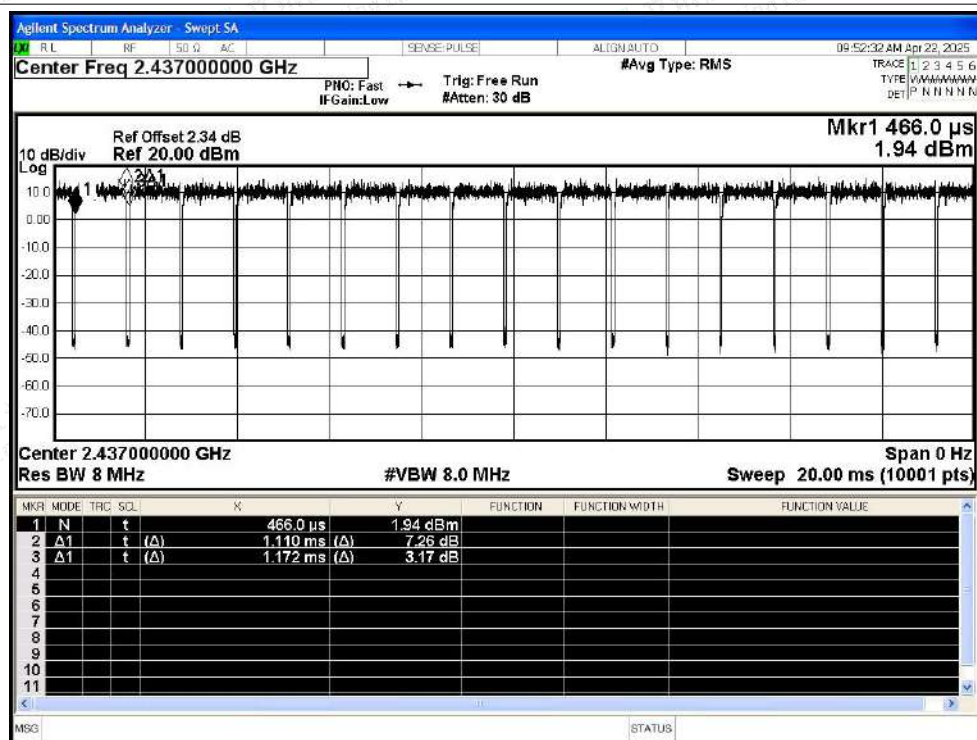
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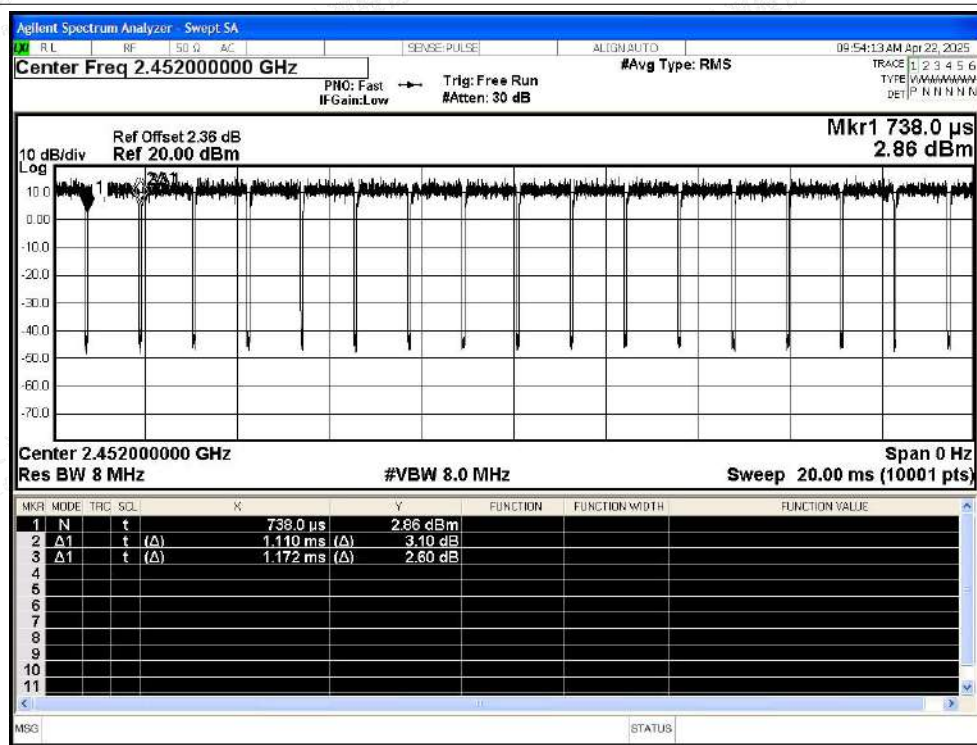
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Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1



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A.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	-50.16	2.8	-	47.90	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-58.43	2.8	0	39.63	Average	54	Pass
NVNT	b	2412	Ant1	2389.677	-46.11	2.8	-	51.95	Peak	74	Pass
NVNT	b	2412	Ant1	2389.911	-54.79	2.8	0	43.27	Average	54	Pass
NVNT	b	2412	Ant1	2390	-46.73	2.8	-	51.33	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-55.07	2.8	0	42.99	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-46.99	2.8	-	51.07	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-54.53	2.8	0	43.53	Average	54	Pass
NVNT	b	2462	Ant1	2484.153	-44.25	2.8	-	53.81	Peak	74	Pass
NVNT	b	2462	Ant1	2488.128	-54.24	2.8	0	43.82	Average	54	Pass
NVNT	b	2462	Ant1	2500	-50.06	2.8	-	48.00	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-57.65	2.8	0	40.41	Average	54	Pass
NVNT	g	2412	Ant1	2310	-51.05	2.8	-	47.01	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-58.12	2.8	0.1	40.04	Average	54	Pass
NVNT	g	2412	Ant1	2389.911	-39.14	2.8	-	58.92	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-52.57	2.8	0.1	45.59	Average	54	Pass
NVNT	g	2412	Ant1	2390	-41.34	2.8	-	56.72	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-53.51	2.8	0.1	44.65	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-46.01	2.8	-	52.05	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-55.11	2.8	0.1	43.05	Average	54	Pass
NVNT	g	2462	Ant1	2484.789	-39.9	2.8	-	58.16	Peak	74	Pass
NVNT	g	2462	Ant1	2484.418	-54.62	2.8	0.1	43.54	Average	54	Pass
NVNT	g	2462	Ant1	2500	-50.29	2.8	-	47.77	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-57.61	2.8	0.1	40.55	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-50.05	2.8	-	48.01	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-58.26	2.8	0.12	39.92	Average	54	Pass
NVNT	n20	2412	Ant1	2389.911	-42.8	2.8	-	55.26	Peak	74	Pass
NVNT	n20	2412	Ant1	2389.326	-55.49	2.8	0.12	42.69	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-42.83	2.8	-	55.23	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-56.56	2.8	0.12	41.62	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-39.4	2.8	-	58.66	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-54.84	2.8	0.12	43.34	Average	54	Pass
NVNT	n20	2462	Ant1	2484.948	-38.81	2.8	-	59.25	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.888	-52.1	2.8	0.12	46.08	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-48.98	2.8	-	49.08	Peak	74	Pass
NVNT	n20	2462	Ant1	2500	-57.25	2.8	0.12	40.93	Average	54	Pass





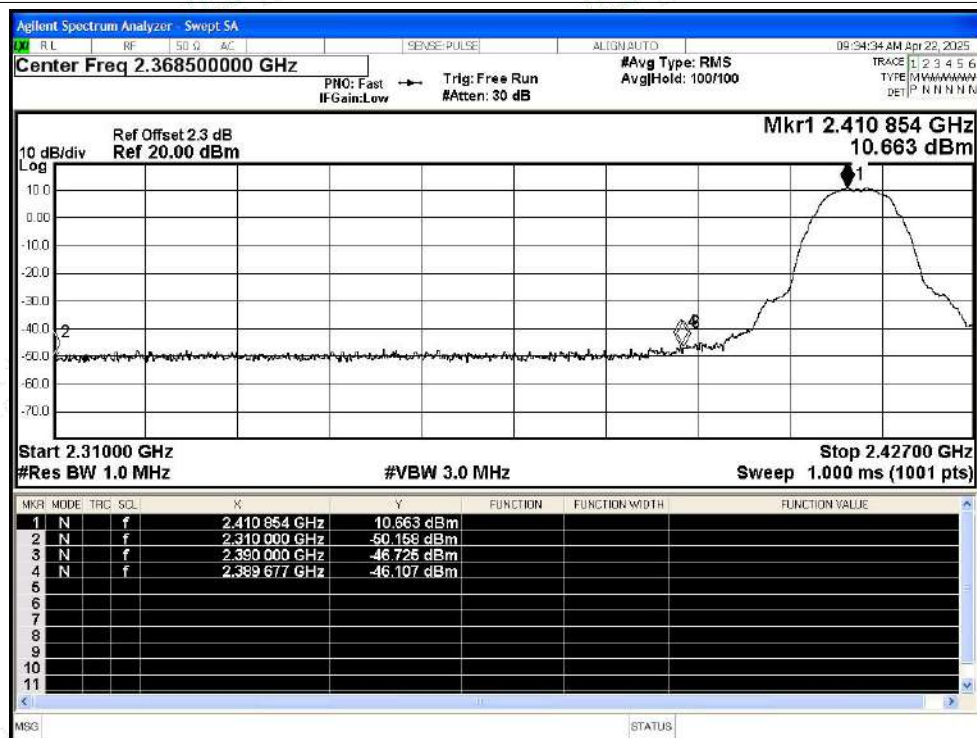
NVNT	n40	2422	Ant1	2310	-49.87	2.8	-	48.19	Peak	74	Pass
NVNT	n40	2422	Ant1	2310	-58.25	2.8	0.24	40.05	Average	54	Pass
NVNT	n40	2422	Ant1	2389.236	-37.93	2.8	-	60.13	Peak	74	Pass
NVNT	n40	2422	Ant1	2389.804	-53.4	2.8	0.24	44.90	Average	54	Pass
NVNT	n40	2422	Ant1	2390	-41.54	2.8	-	56.52	Peak	74	Pass
NVNT	n40	2422	Ant1	2390	-53.69	2.8	0.24	44.61	Average	54	Pass
NVNT	n40	2452	Ant1	2483.5	-39.79	2.8	-	58.27	Peak	74	Pass
NVNT	n40	2452	Ant1	2483.5	-54.93	2.8	0.24	43.37	Average	54	Pass
NVNT	n40	2452	Ant1	2483.542	-39.31	2.8	-	58.75	Peak	74	Pass
NVNT	n40	2452	Ant1	2484.01	-53.59	2.8	0.24	44.71	Average	54	Pass
NVNT	n40	2452	Ant1	2500	-51.1	2.8	-	46.96	Peak	74	Pass
NVNT	n40	2452	Ant1	2500	-57.86	2.8	0.24	40.44	Average	54	Pass



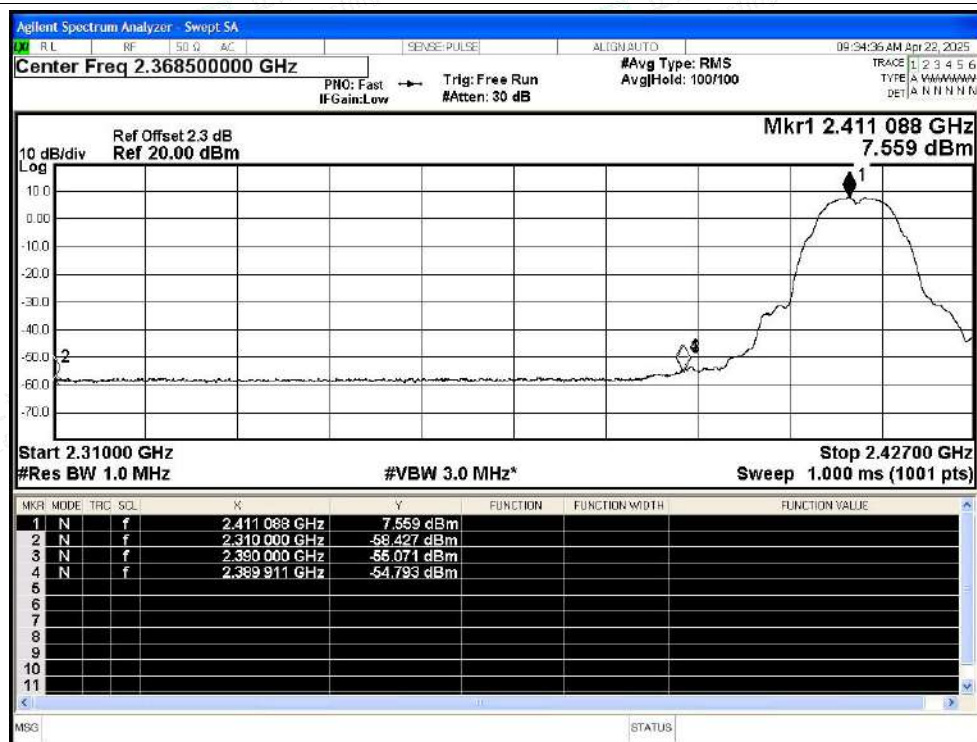


Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average



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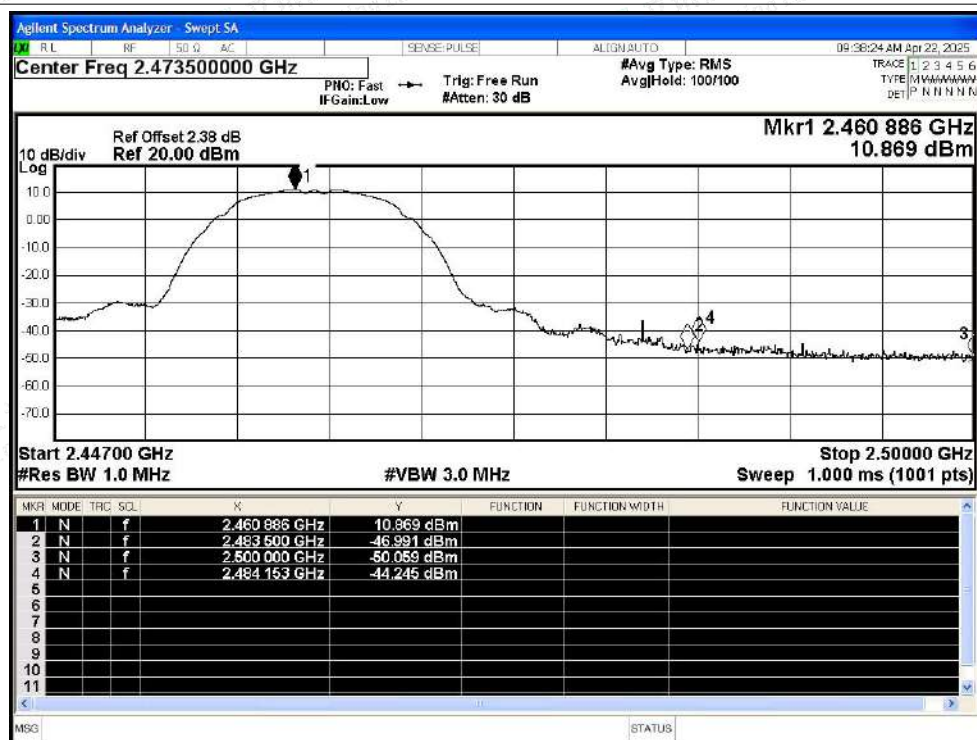
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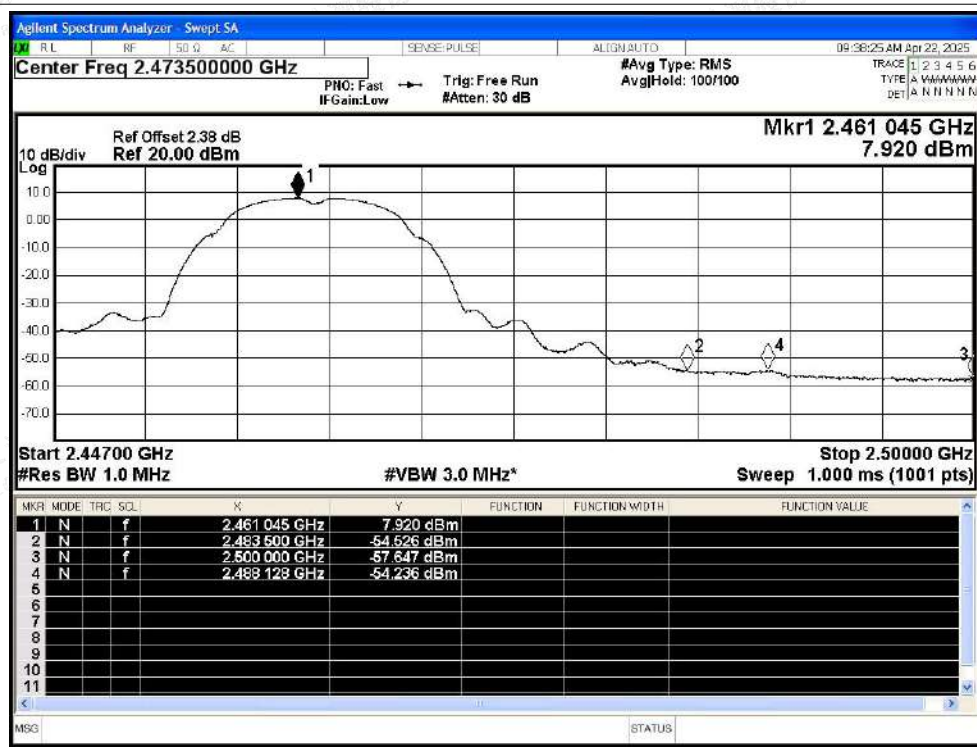
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Restrict Band NVNT b 2462MHz Ant1 Peak



Restrict Band NVNT b 2462MHz Ant1 Average



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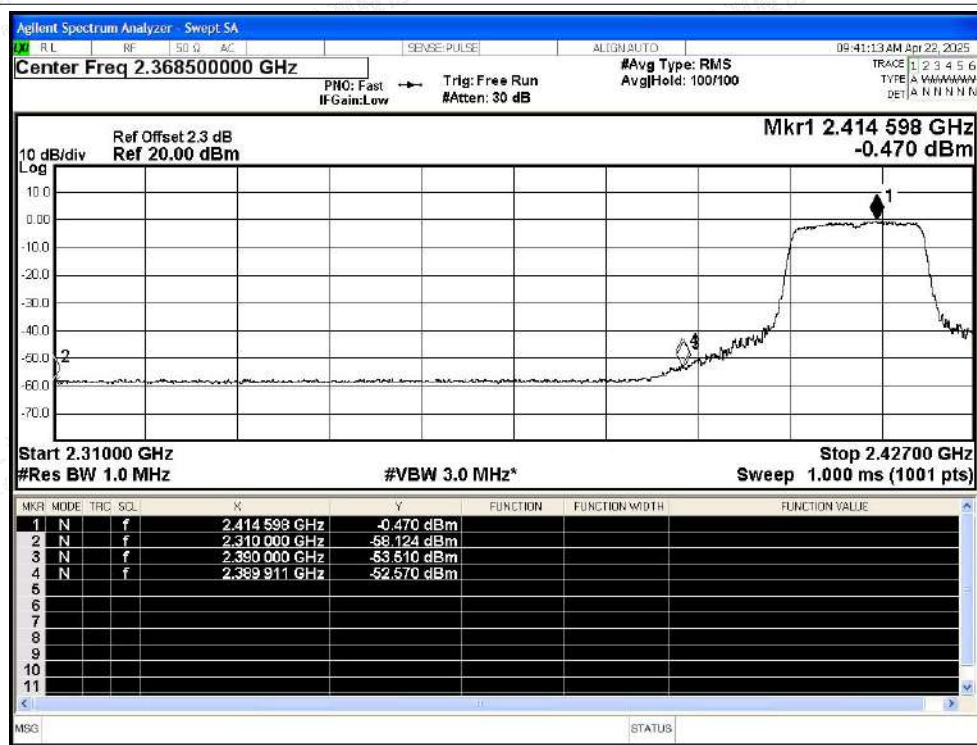
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Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average



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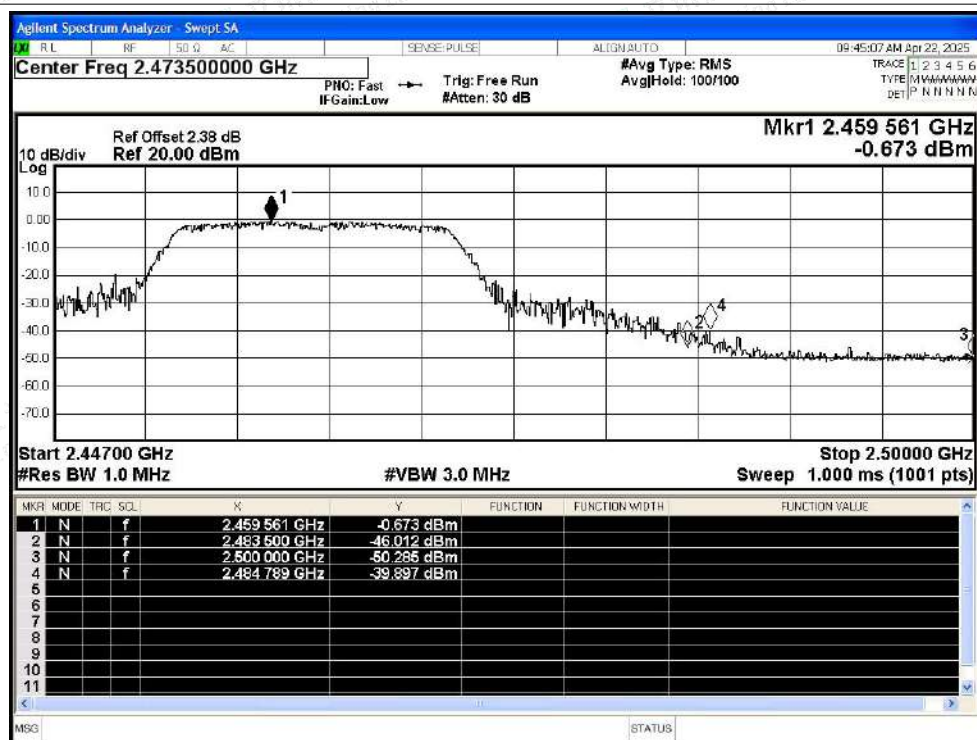
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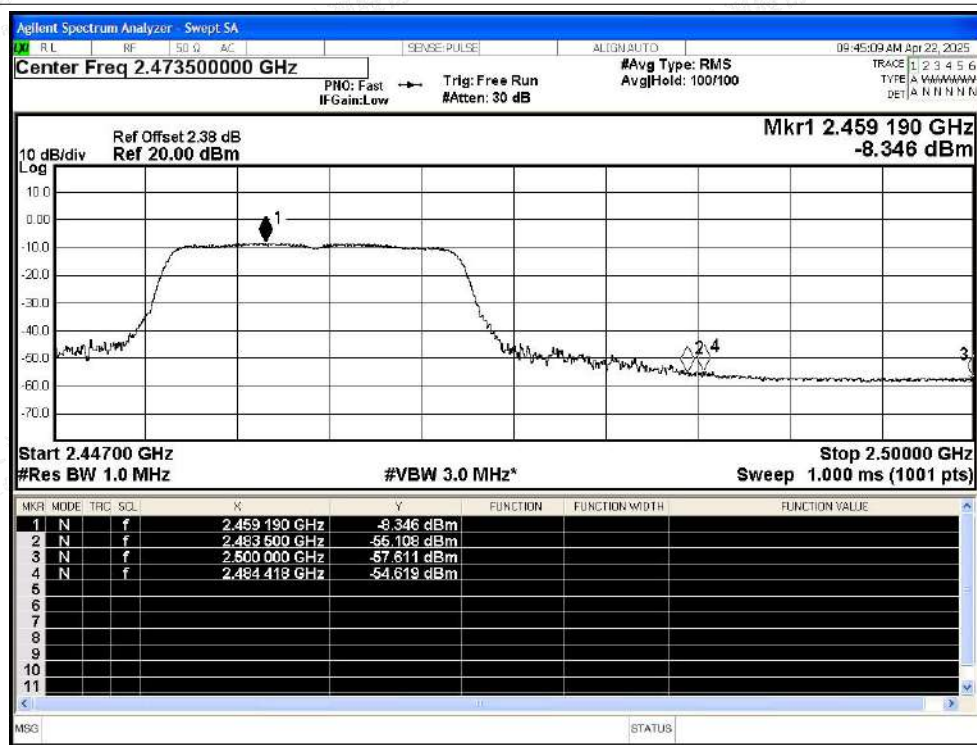
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Restrict Band NVNT g 2462MHz Ant1 Peak



Restrict Band NVNT g 2462MHz Ant1 Average



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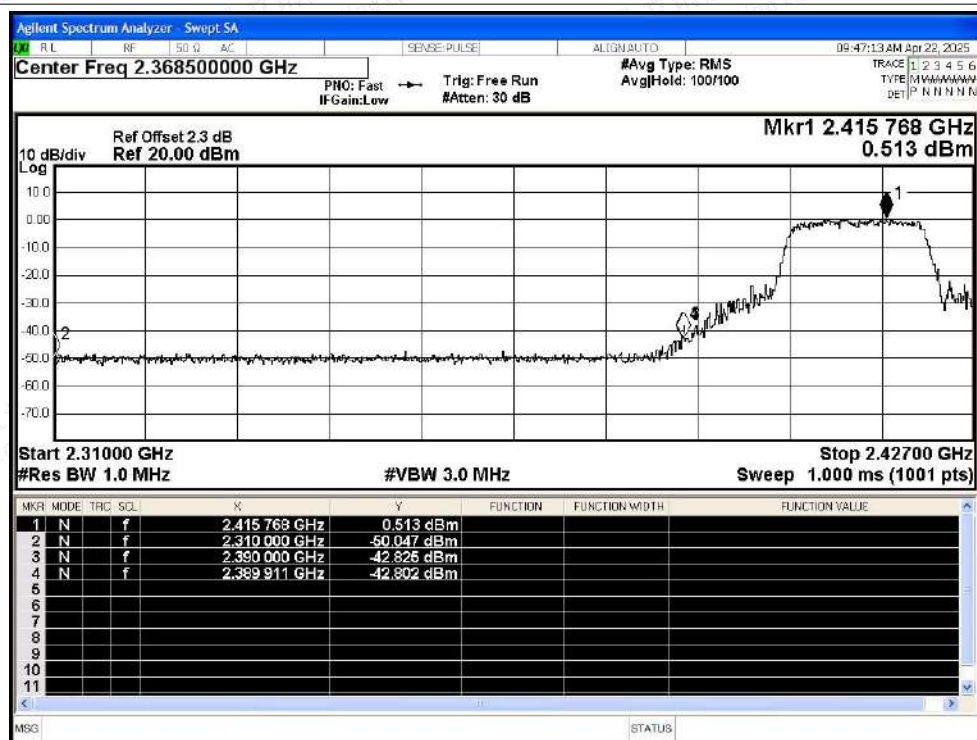
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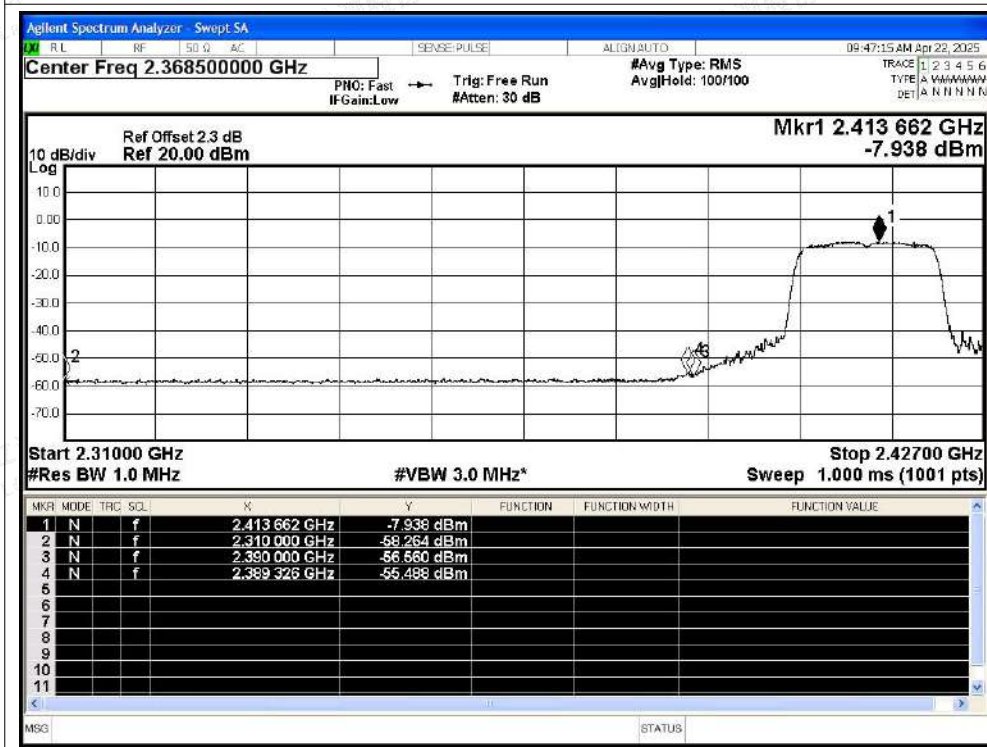
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Restrict Band NVNT n20 2412MHz Ant1 Peak



Restrict Band NVNT n20 2412MHz Ant1 Average



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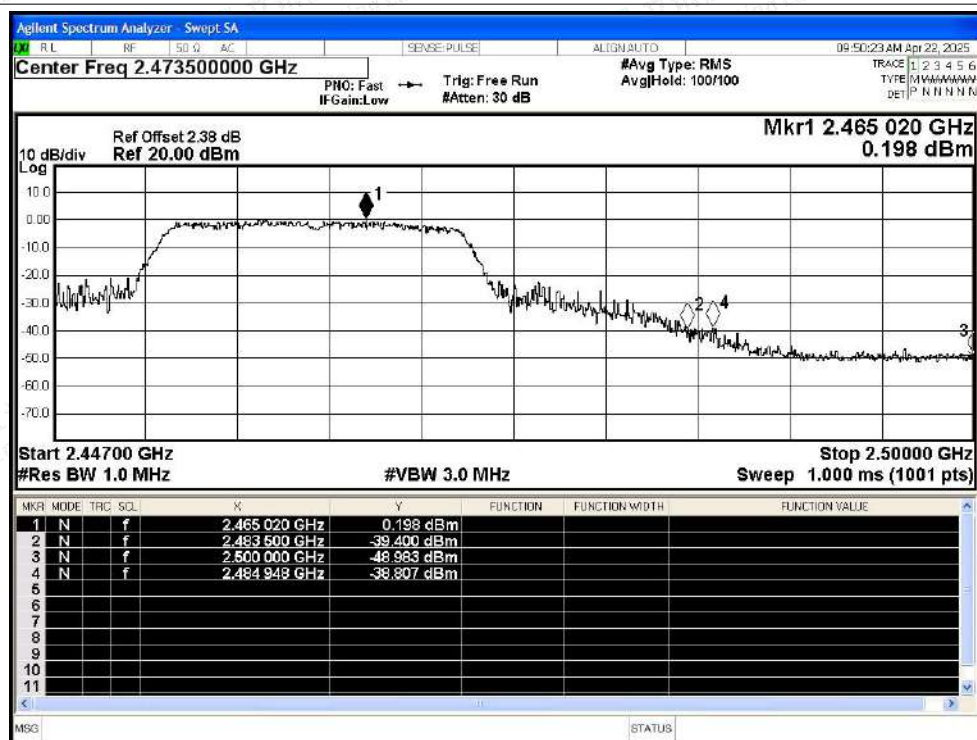
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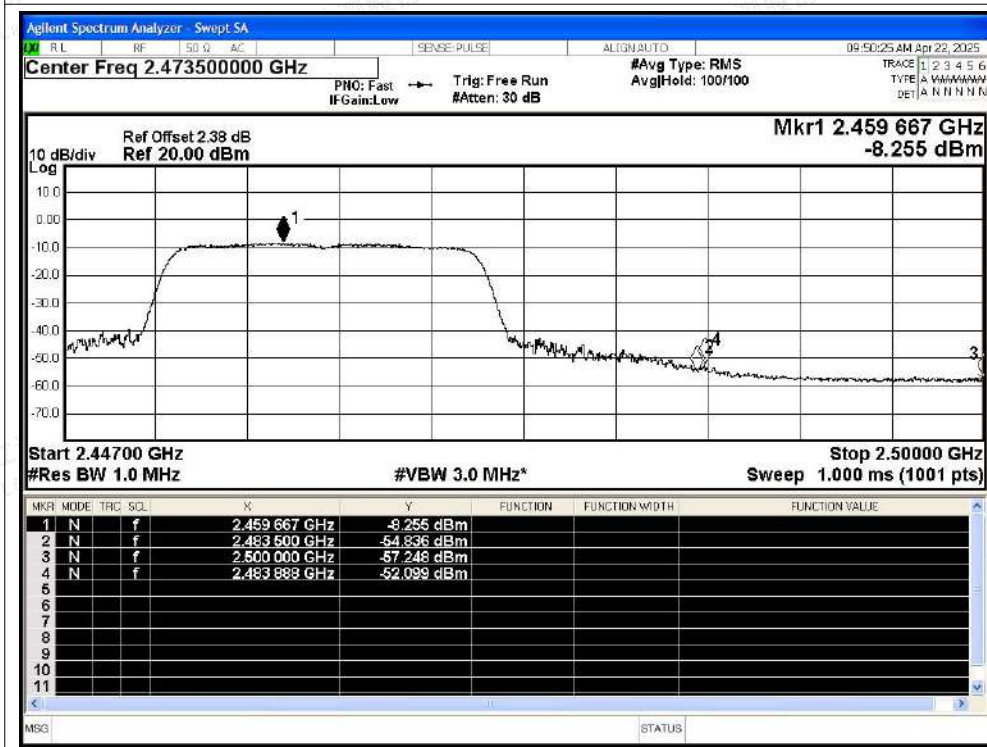
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Restrict Band NVNT n20 2462MHz Ant1 Peak



Restrict Band NVNT n20 2462MHz Ant1 Average



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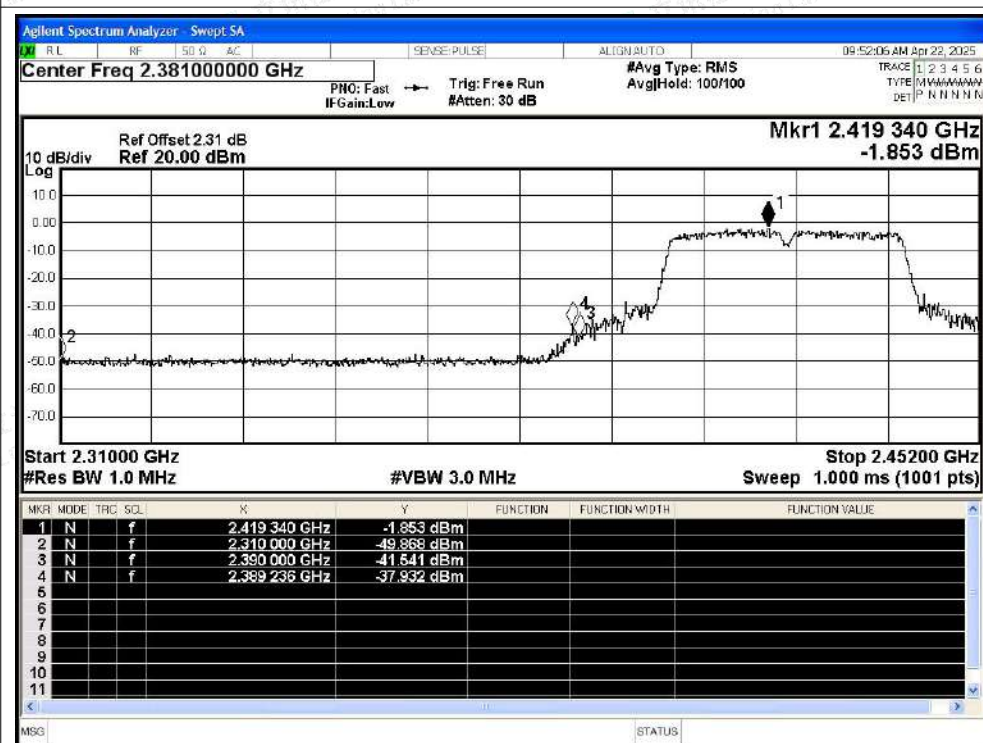
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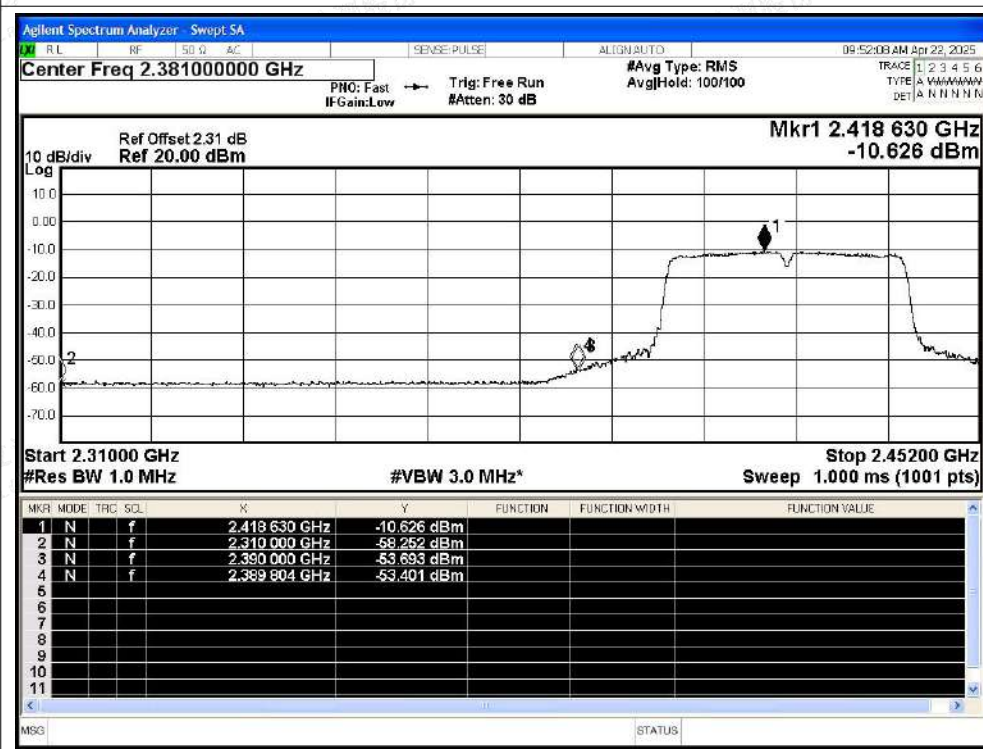
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Restrict Band NVNT n40 2422MHz Ant1 Peak



Restrict Band NVNT n40 2422MHz Ant1 Average



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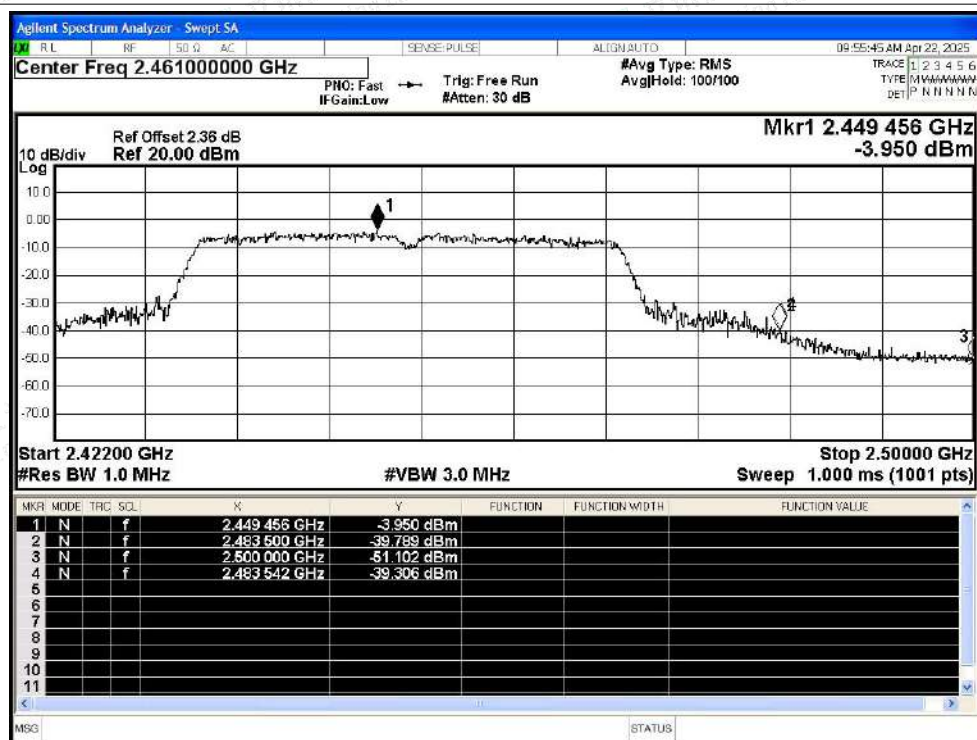
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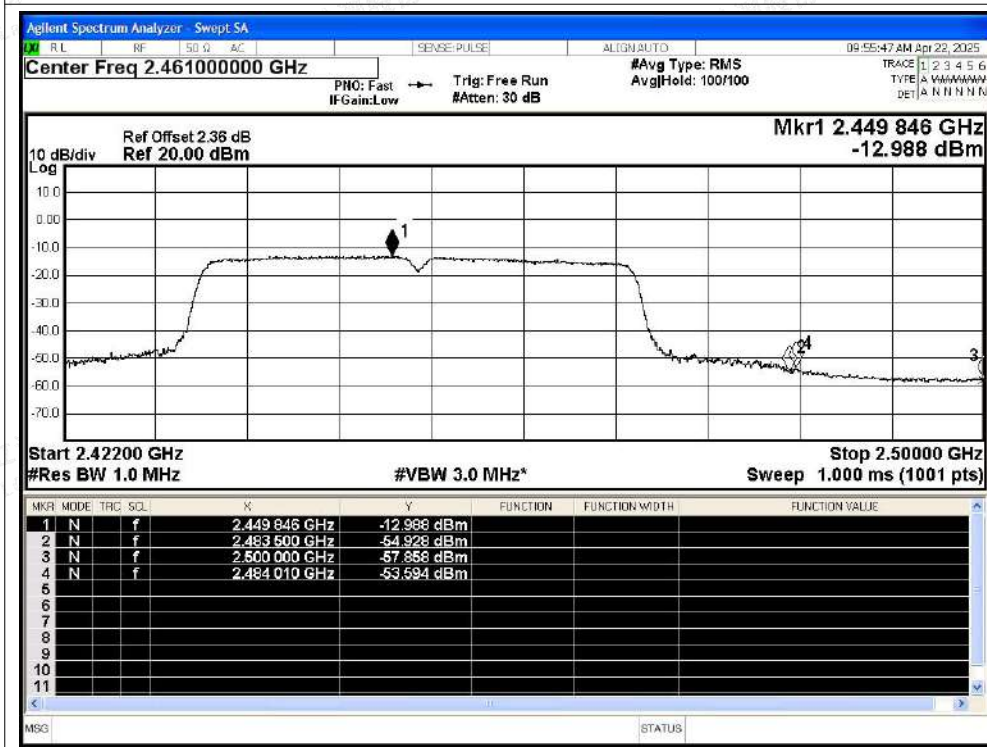
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Restrict Band NVNT n40 2452MHz Ant1 Peak



Restrict Band NVNT n40 2452MHz Ant1 Average



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