



Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: LoRa Smart Gateway GW1

Test Model: GW1-24FETH

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
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	9.014	≥ 0.5	Pass
NVNT	b	2437	Ant1	8.559	≥ 0.5	Pass
NVNT	b	2462	Ant1	8.098	≥ 0.5	Pass
NVNT	g	2412	Ant1	15.725	≥ 0.5	Pass
NVNT	g	2437	Ant1	16.313	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.082	≥ 0.5	Pass
NVNT	n20	2412	Ant1	16.823	≥ 0.5	Pass
NVNT	n20	2437	Ant1	17.234	≥ 0.5	Pass
NVNT	n20	2462	Ant1	17.353	≥ 0.5	Pass
NVNT	n40	2422	Ant1	35.768	≥ 0.5	Pass
NVNT	n40	2437	Ant1	35.419	≥ 0.5	Pass
NVNT	n40	2452	Ant1	34.179	≥ 0.5	Pass



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Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

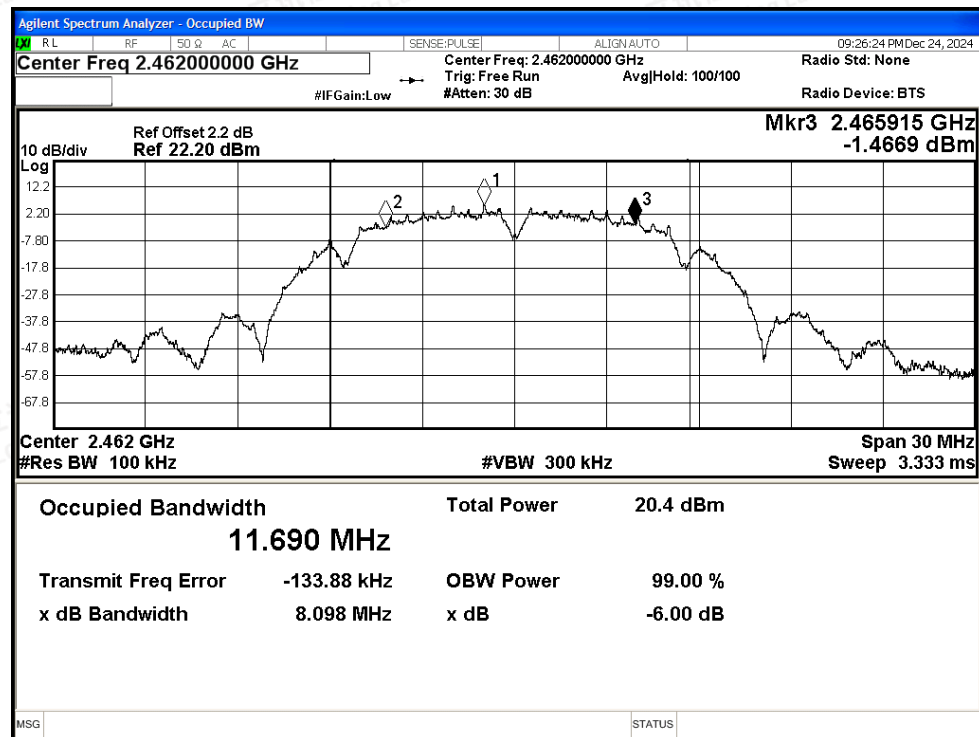


-6dB Bandwidth NVNT b 2437MHz Ant1

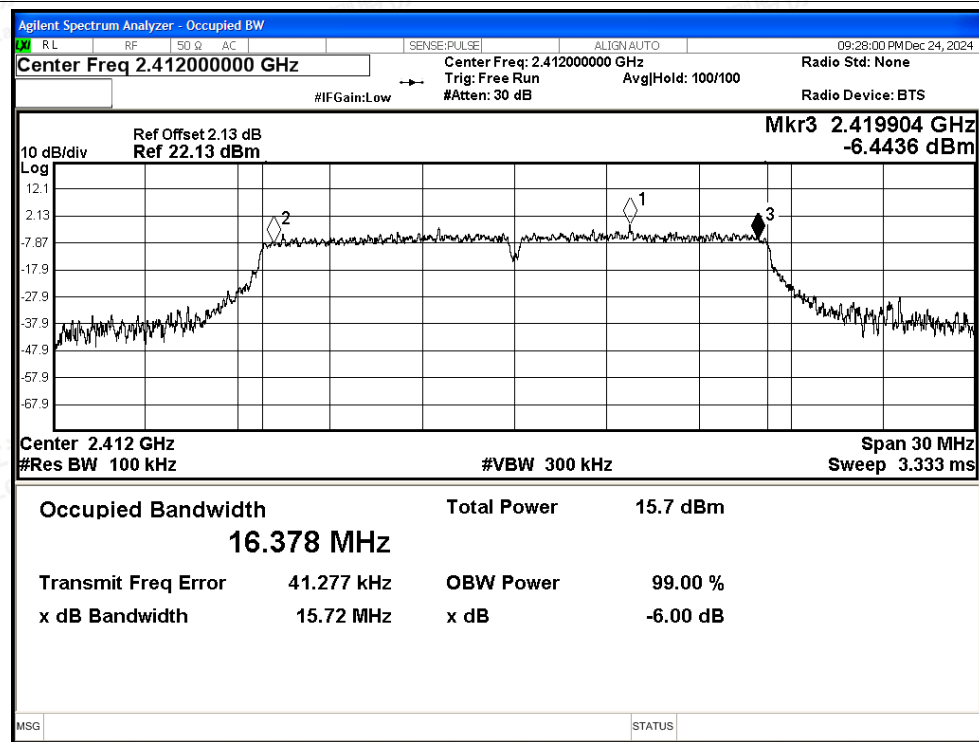




-6dB Bandwidth NVNT b 2462MHz Ant1

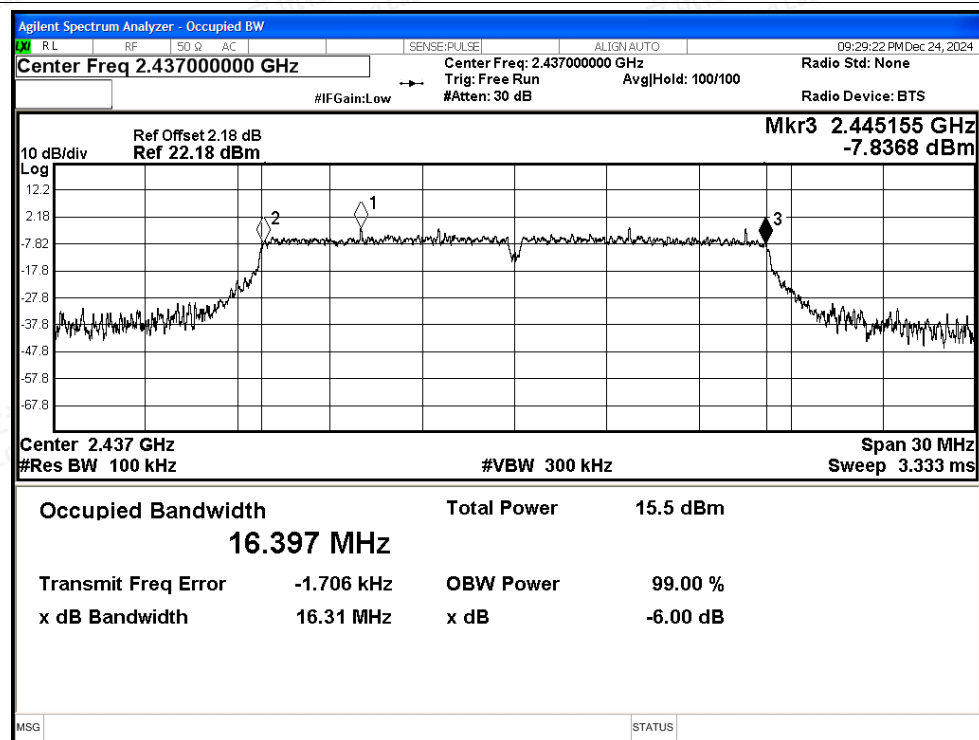


-6dB Bandwidth NVNT g 2412MHz Ant1

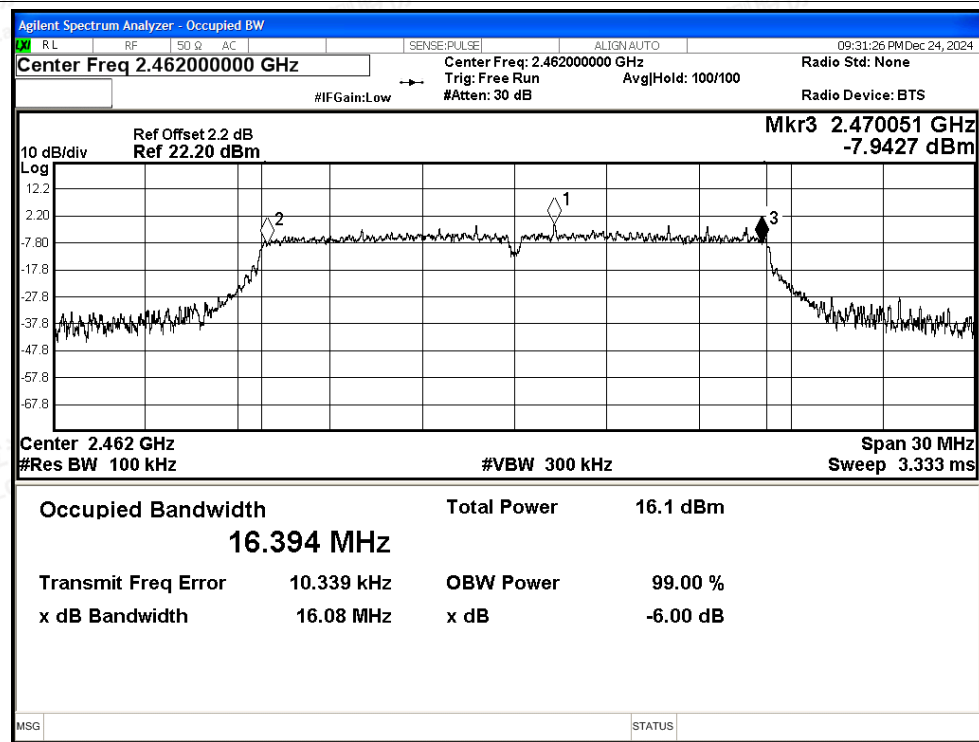




-6dB Bandwidth NVNT g 2437MHz Ant1



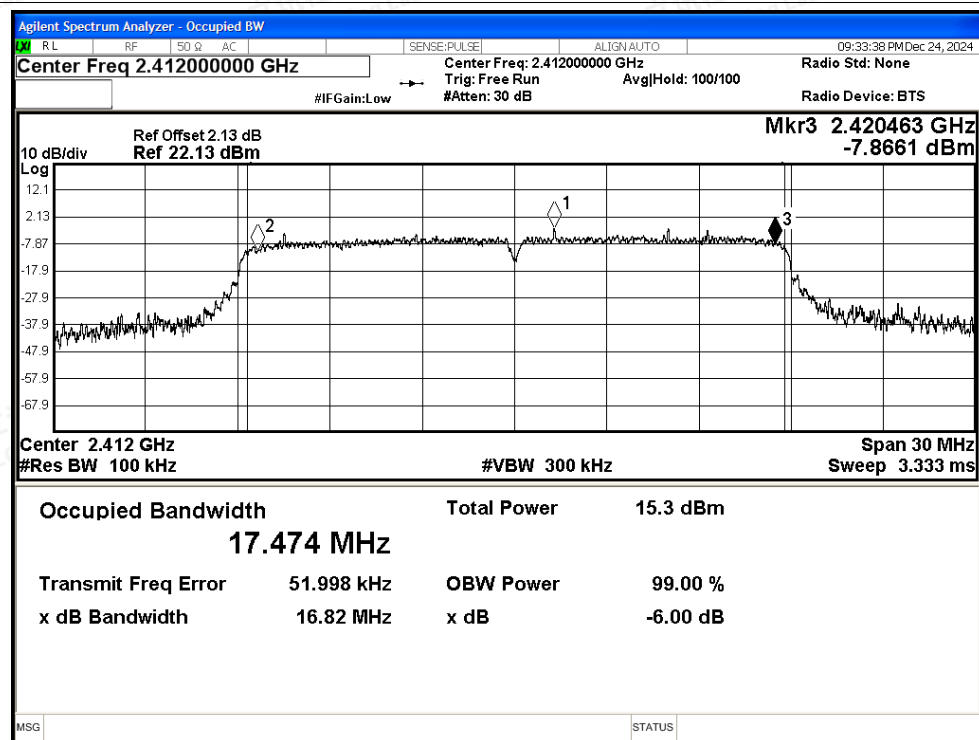
-6dB Bandwidth NVNT g 2462MHz Ant1



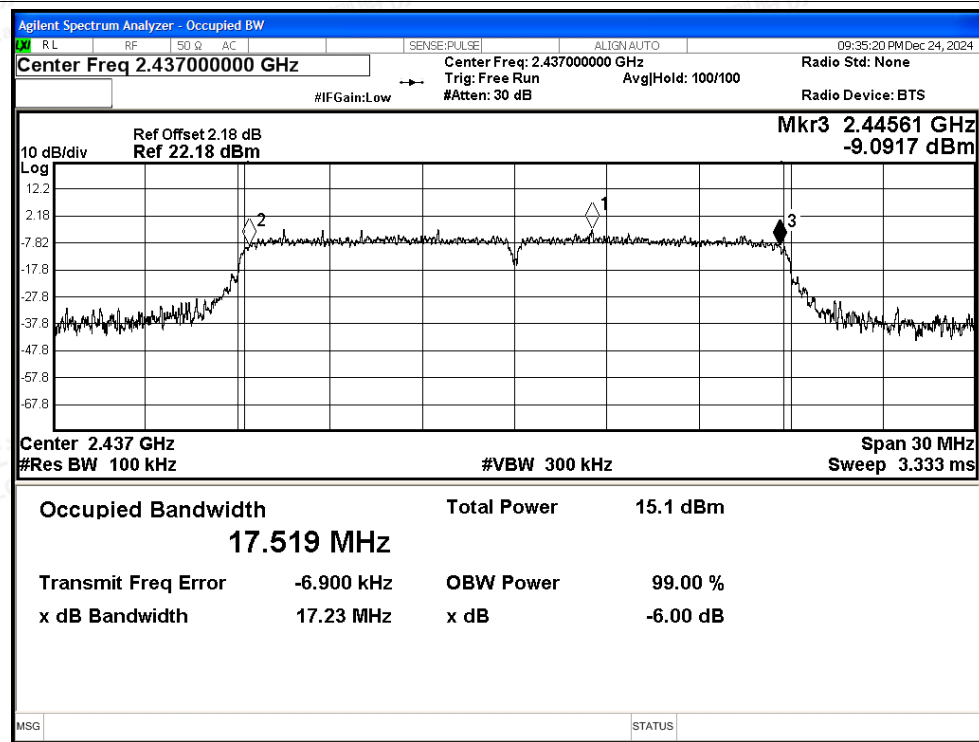
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-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



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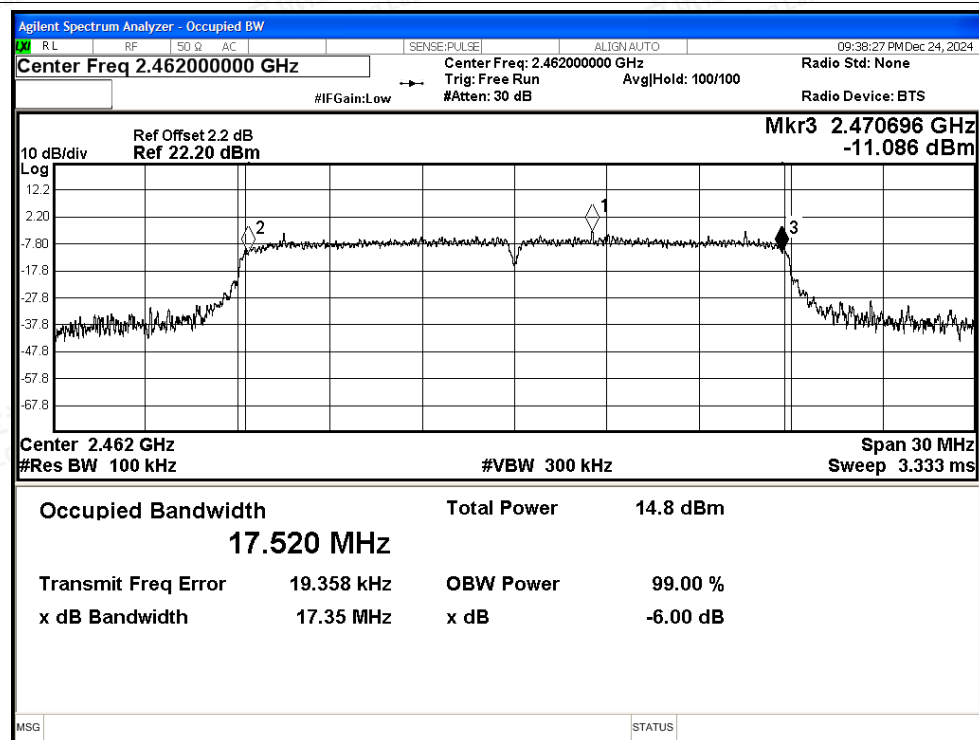
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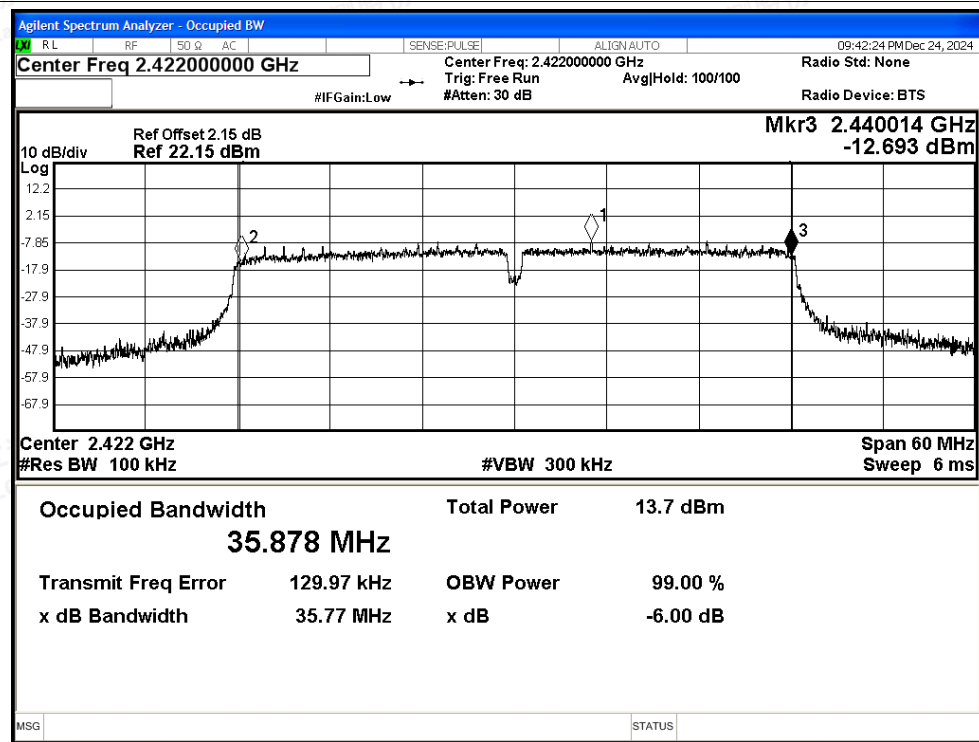
Scan code to check authenticity



-6dB Bandwidth NVNT n20 2462MHz Ant1

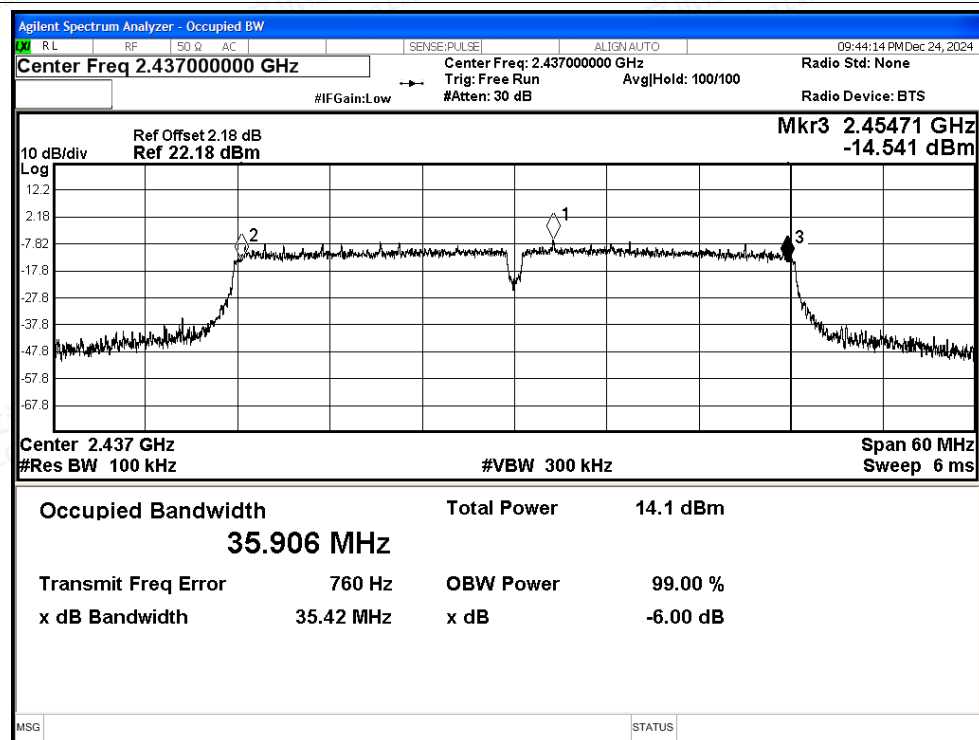


-6dB Bandwidth NVNT n40 2422MHz Ant1

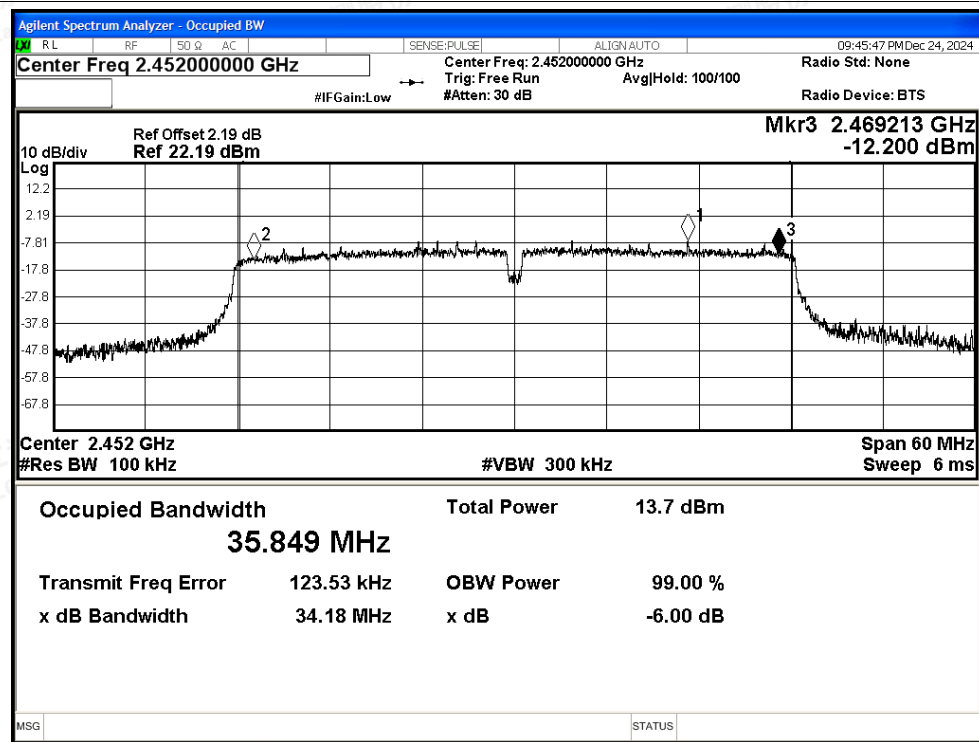




-6dB Bandwidth NVNT n40 2437MHz Ant1



-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	15.81	30	Pass
NVNT	b	2437	Ant1	15.99	30	Pass
NVNT	b	2462	Ant1	15.42	30	Pass
NVNT	g	2412	Ant1	14.48	30	Pass
NVNT	g	2437	Ant1	14.2	30	Pass
NVNT	g	2462	Ant1	14.92	30	Pass
NVNT	n20	2412	Ant1	14.02	30	Pass
NVNT	n20	2437	Ant1	13.79	30	Pass
NVNT	n20	2462	Ant1	13.42	30	Pass
NVNT	n40	2422	Ant1	12.18	30	Pass
NVNT	n40	2437	Ant1	12.53	30	Pass
NVNT	n40	2452	Ant1	12.24	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	-7.36	8	Pass
NVNT	b	2437	Ant1	-7.87	8	Pass
NVNT	b	2462	Ant1	-9.65	8	Pass
NVNT	g	2412	Ant1	-16.42	8	Pass
NVNT	g	2437	Ant1	-16.13	8	Pass
NVNT	g	2462	Ant1	-15.79	8	Pass
NVNT	n20	2412	Ant1	-16.09	8	Pass
NVNT	n20	2437	Ant1	-16.04	8	Pass
NVNT	n20	2462	Ant1	-16.85	8	Pass
NVNT	n40	2422	Ant1	-21.39	8	Pass
NVNT	n40	2437	Ant1	-20.83	8	Pass
NVNT	n40	2452	Ant1	-21.37	8	Pass

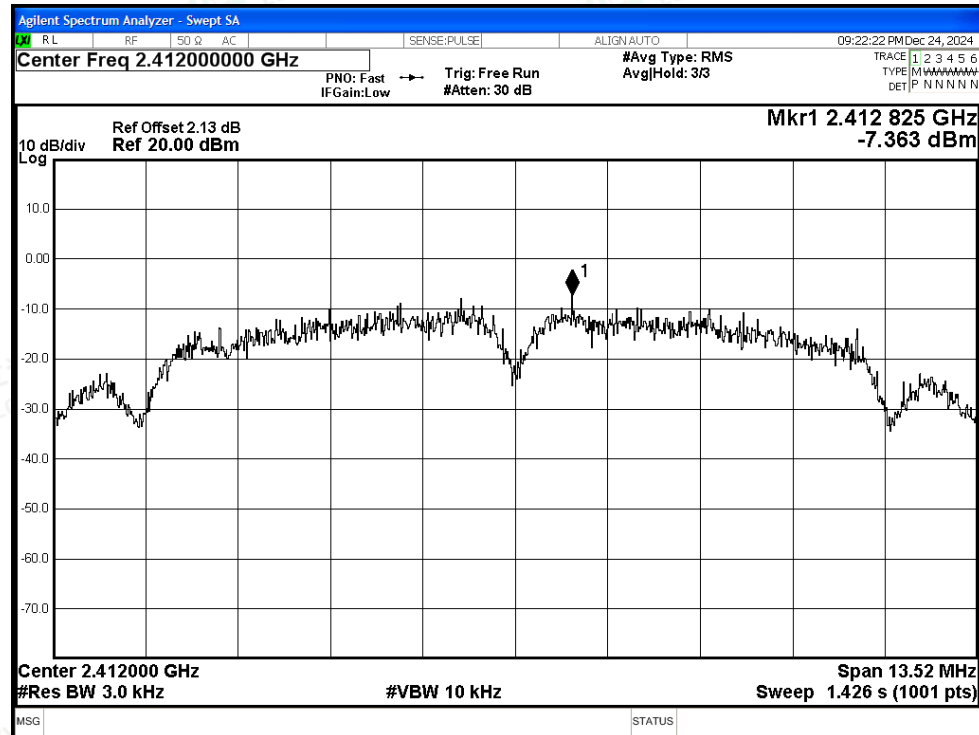


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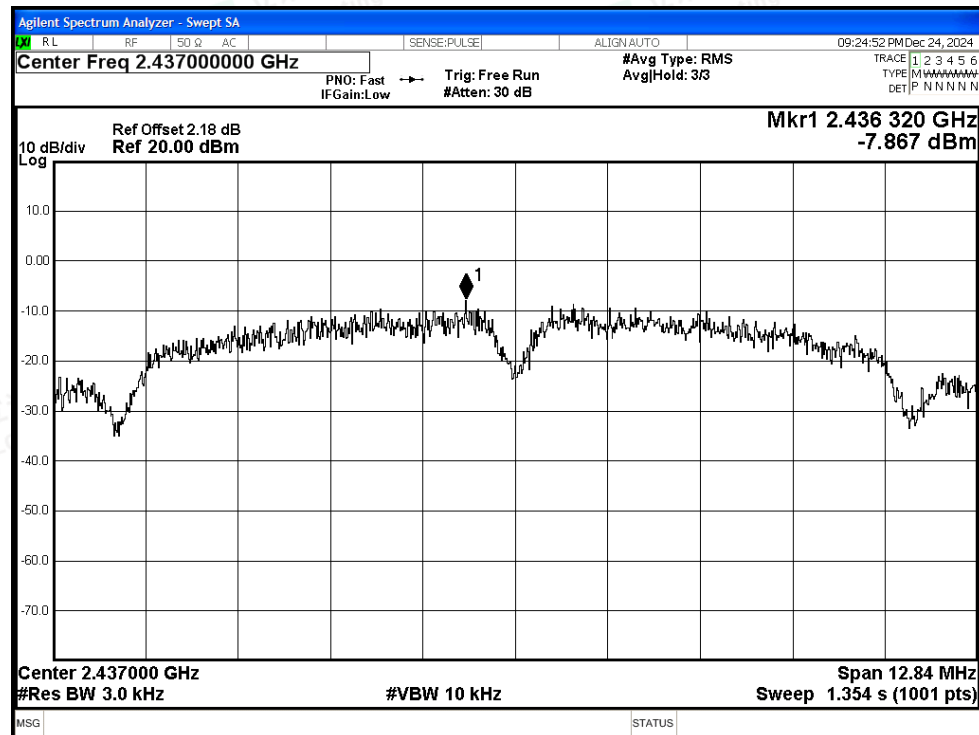


Test Graphs

PSD NVNT b 2412MHz Ant1

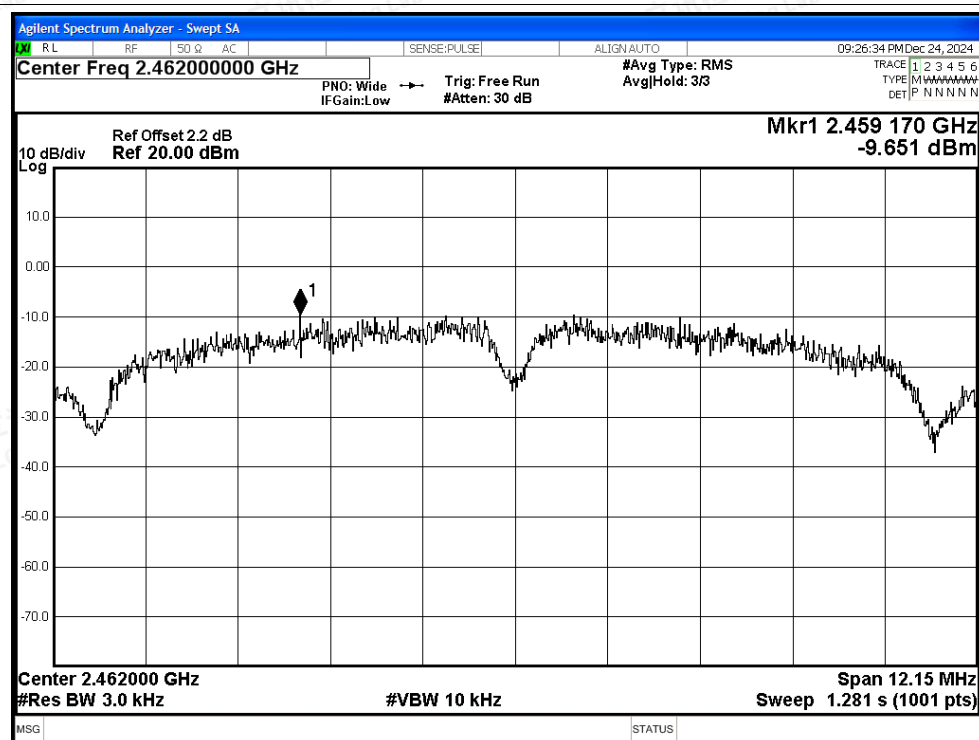


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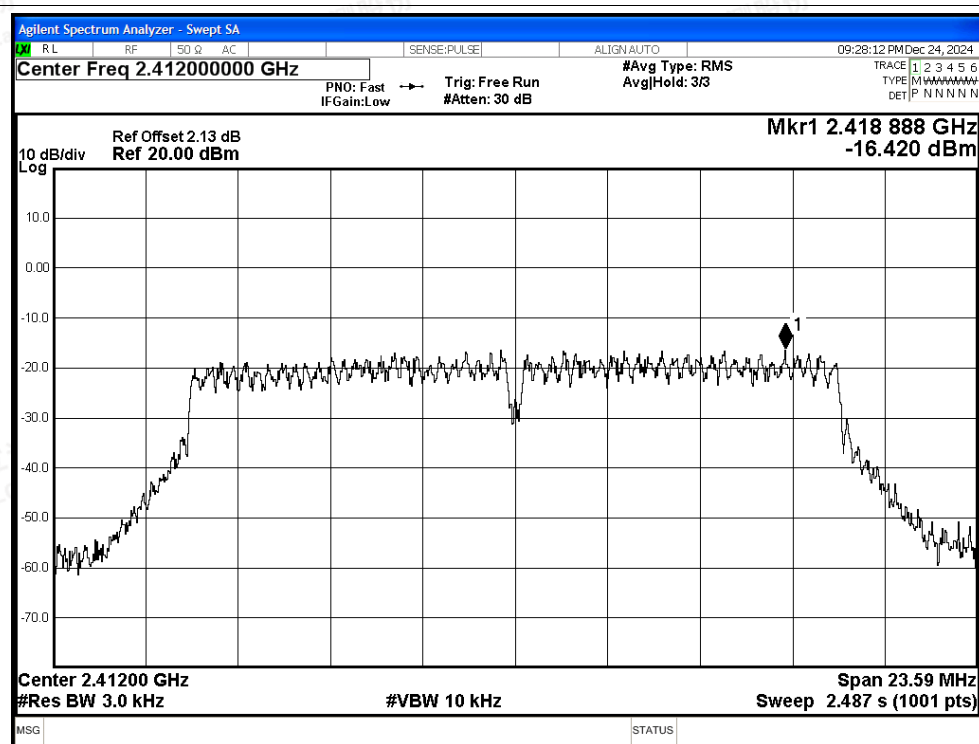




PSD NVNT b 2462MHz Ant1

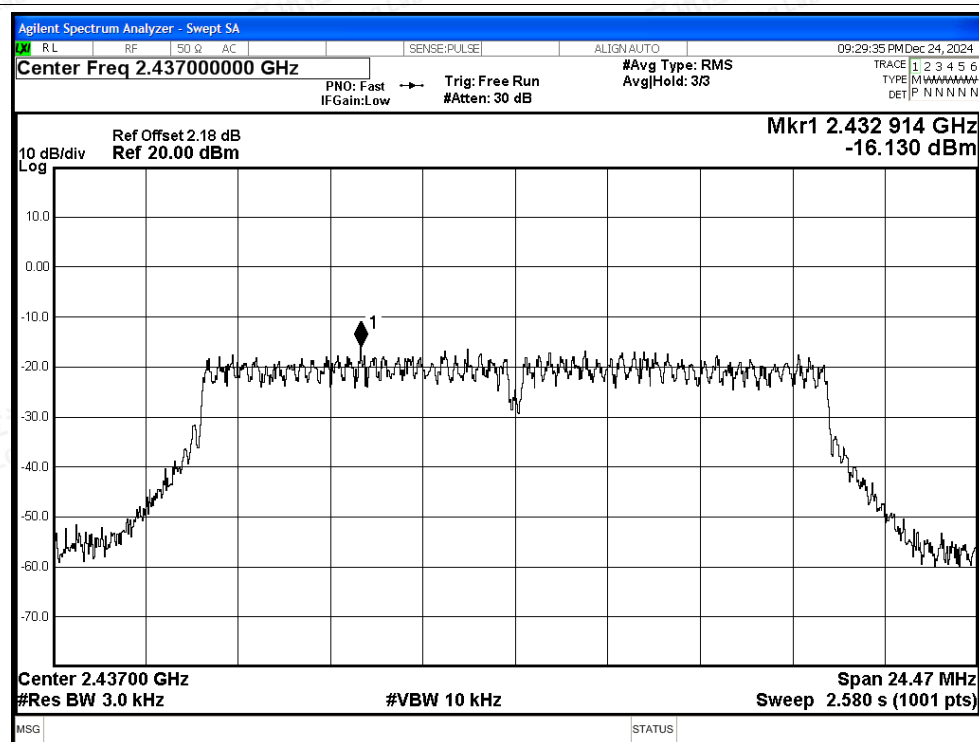


PSD NVNT g 2412MHz Ant1

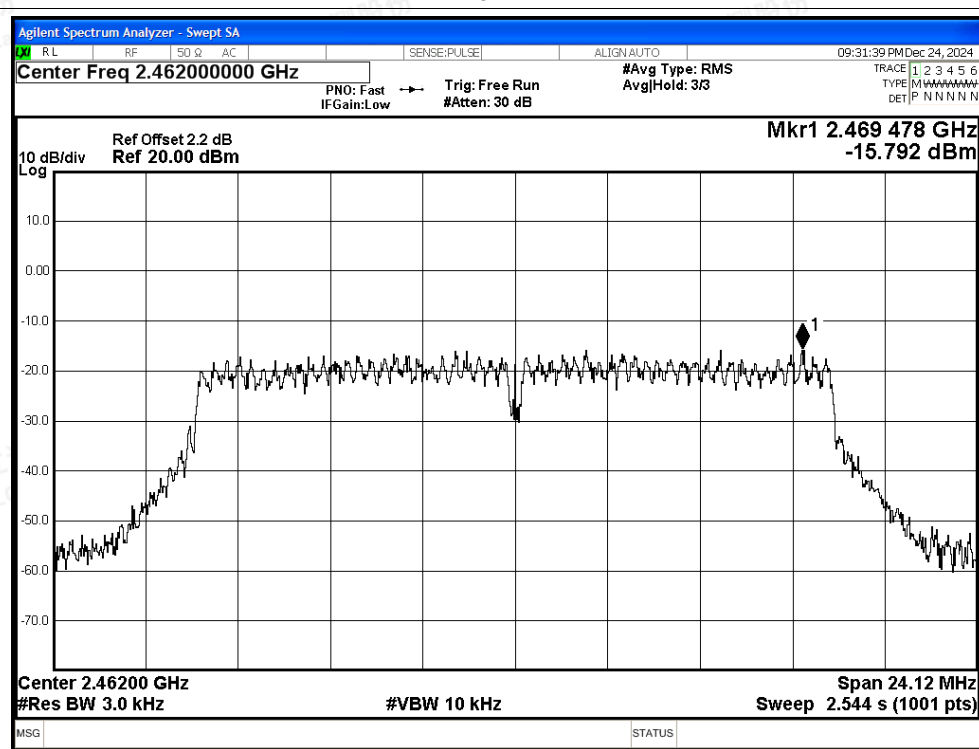


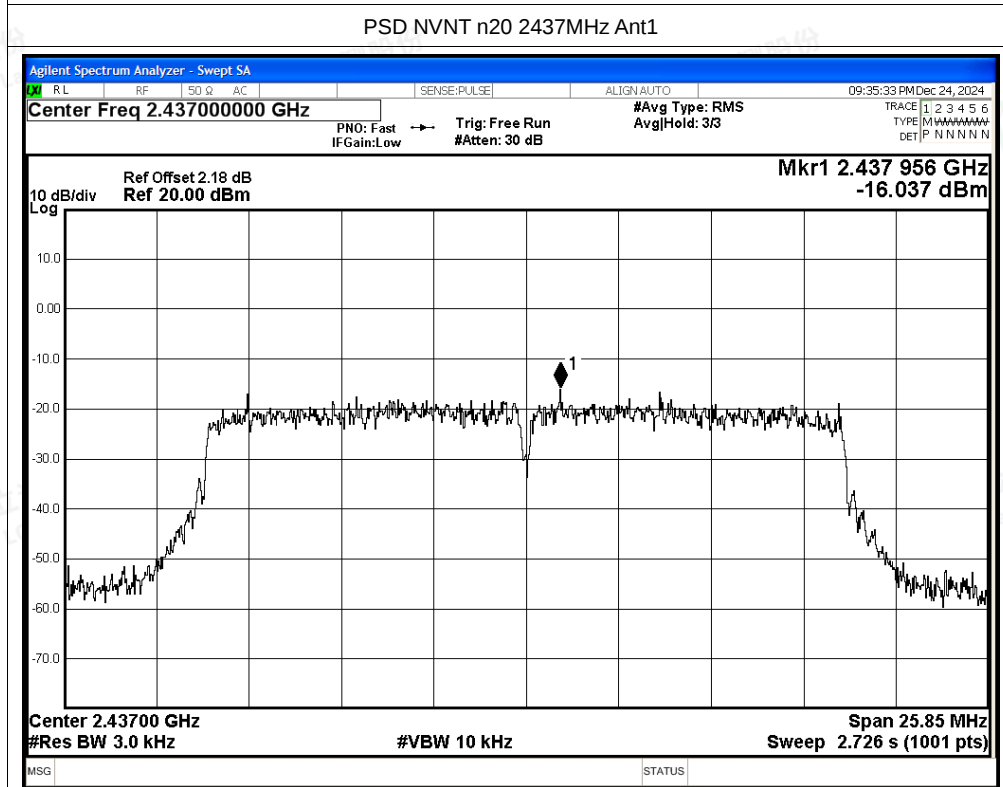
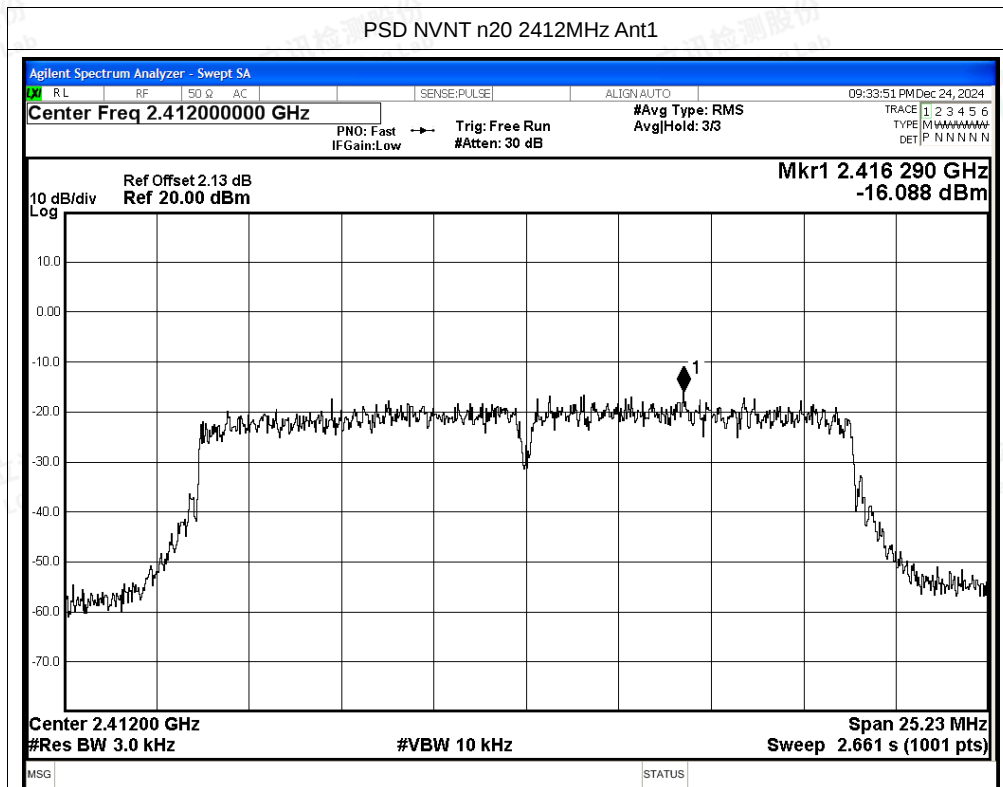


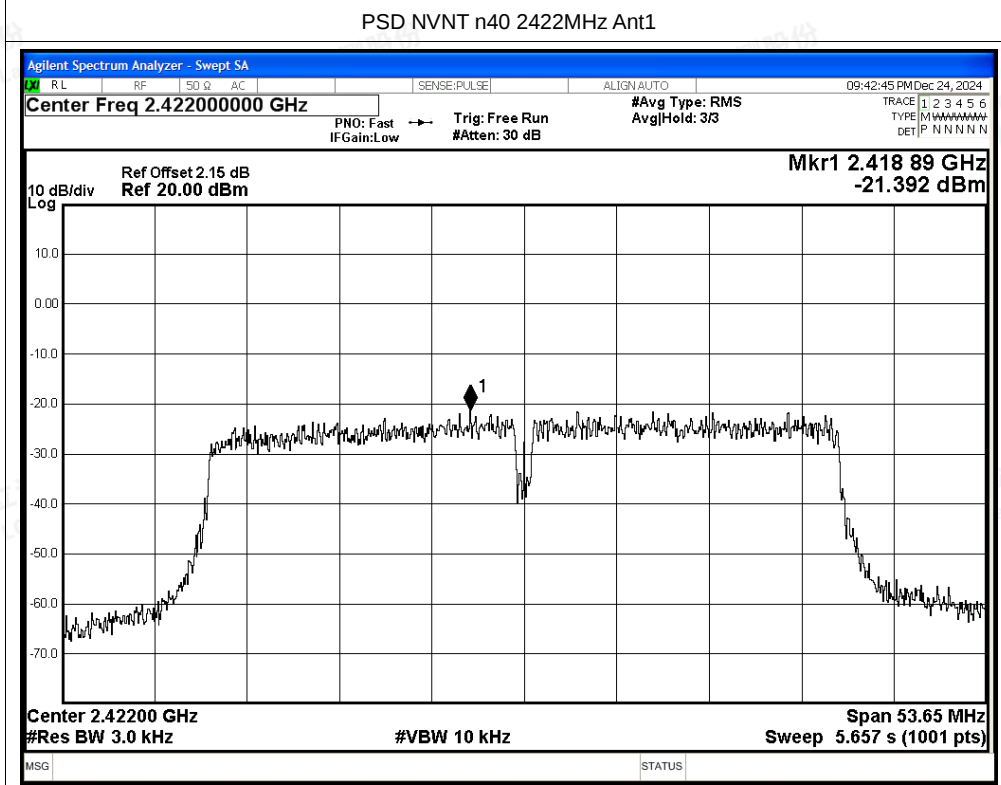
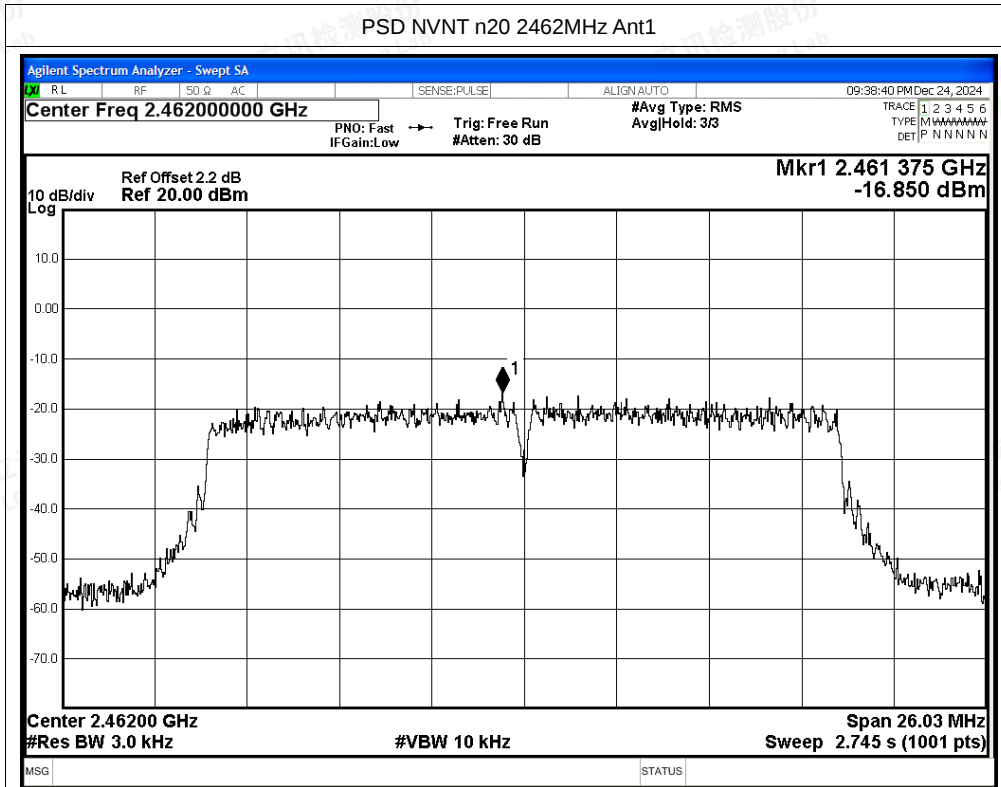
PSD NVNT g 2437MHz Ant1

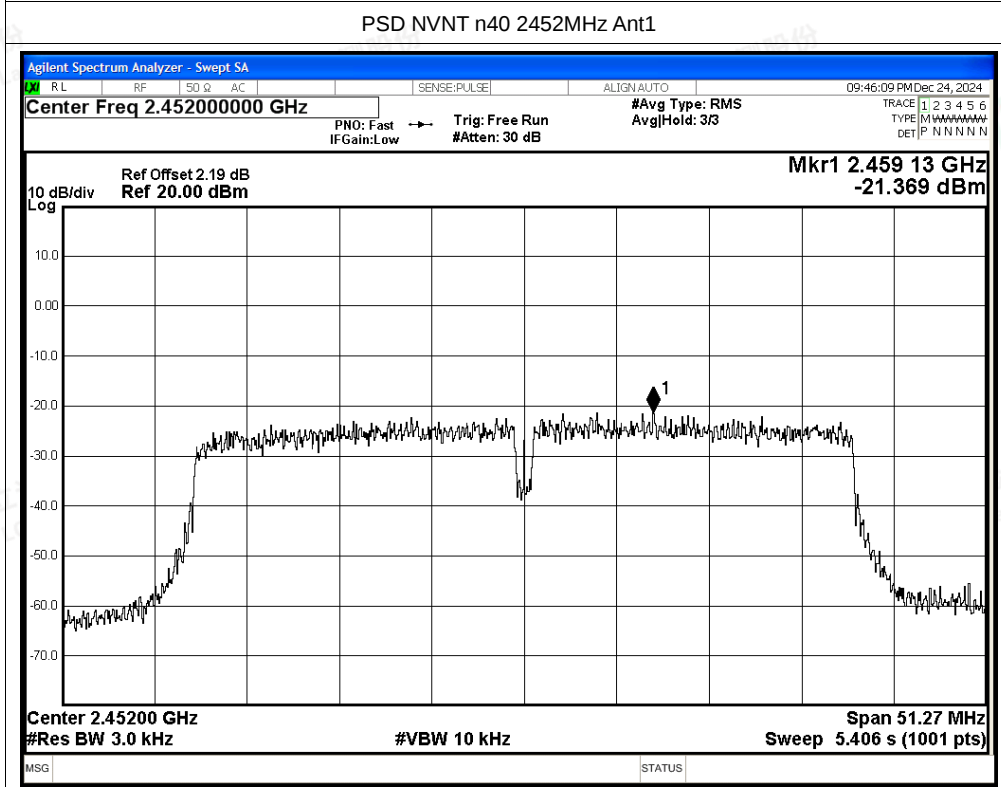
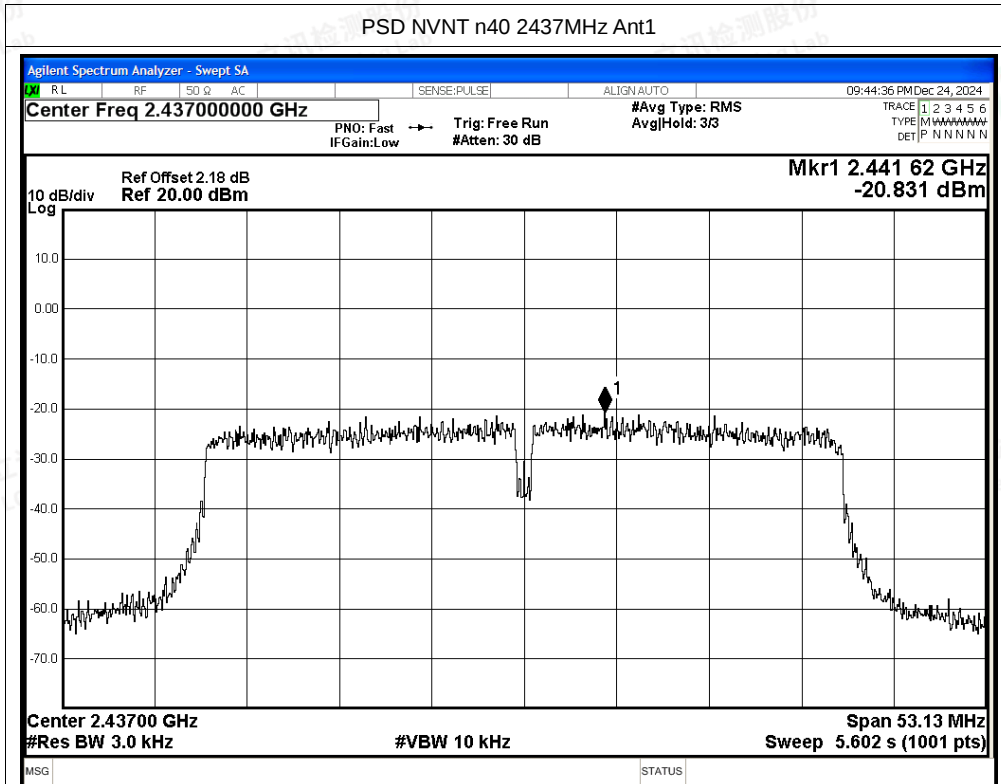


PSD NVNT g 2462MHz Ant1











A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-46.56	-20	Pass
NVNT	b	2462	Ant1	-59.11	-20	Pass
NVNT	g	2412	Ant1	-33.2	-20	Pass
NVNT	g	2462	Ant1	-42.53	-20	Pass
NVNT	n20	2412	Ant1	-31.94	-20	Pass
NVNT	n20	2462	Ant1	-39.17	-20	Pass
NVNT	n40	2422	Ant1	-34.71	-20	Pass
NVNT	n40	2452	Ant1	-37.06	-20	Pass

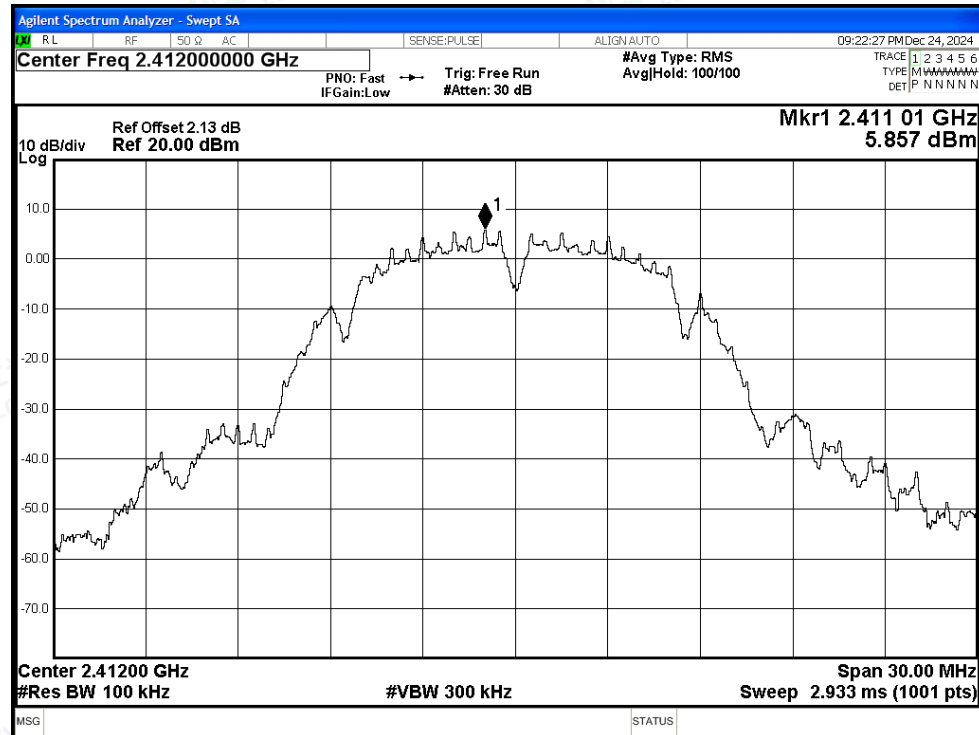


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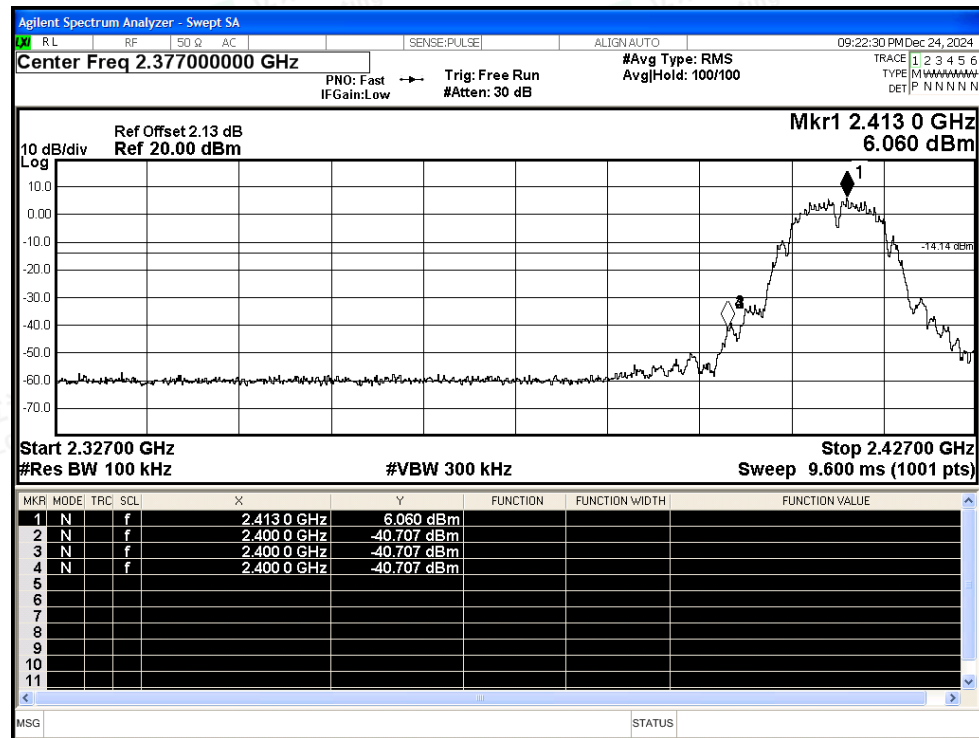


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



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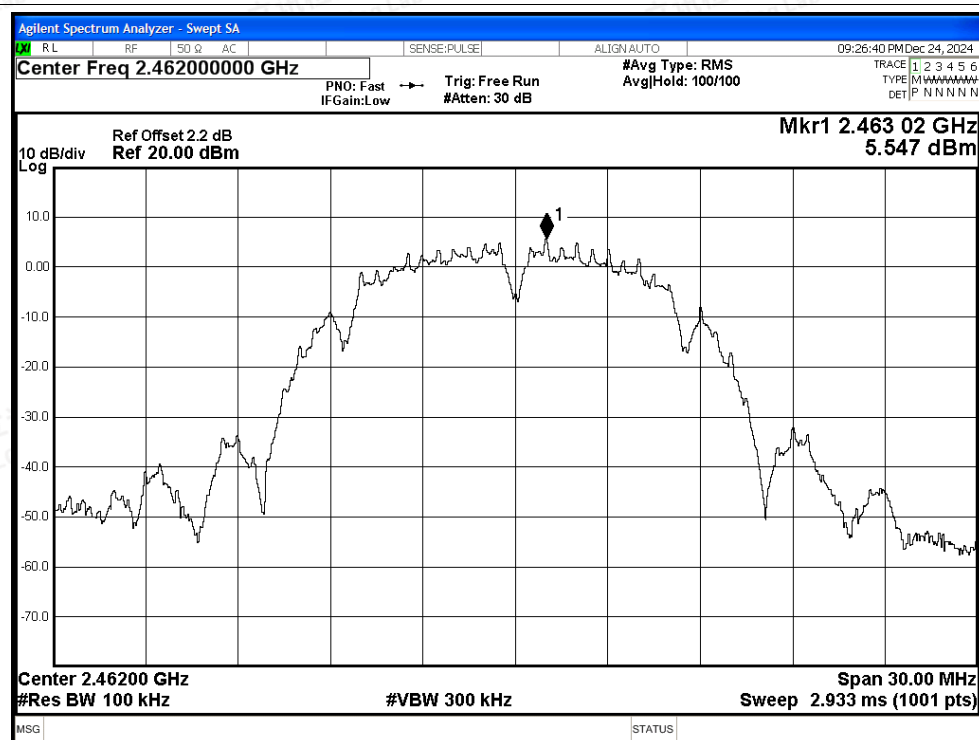
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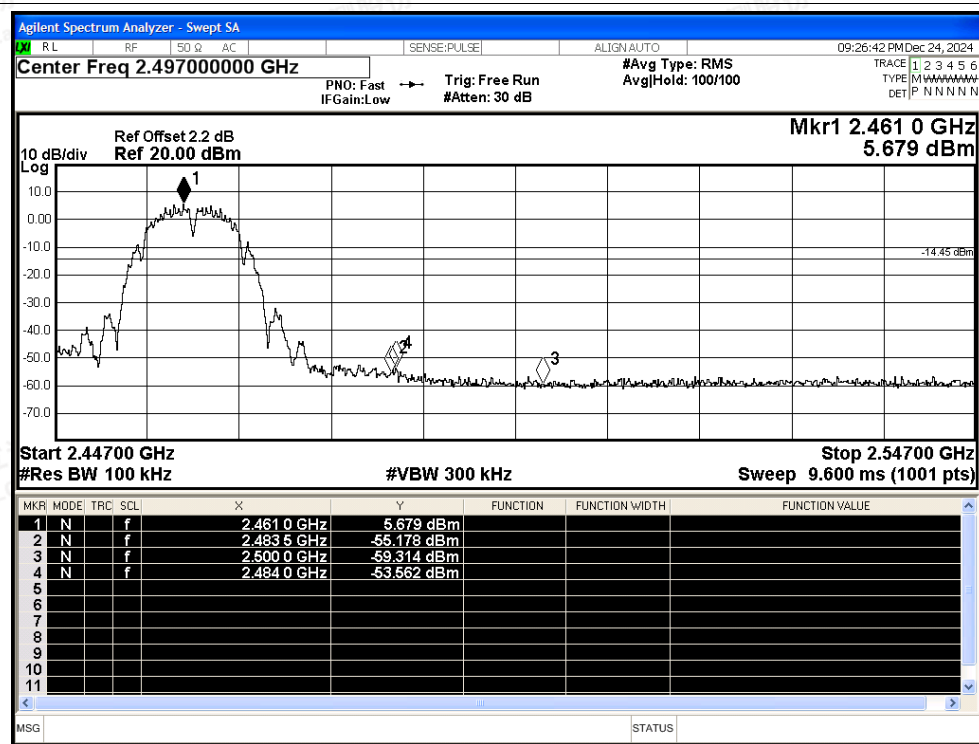
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Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission



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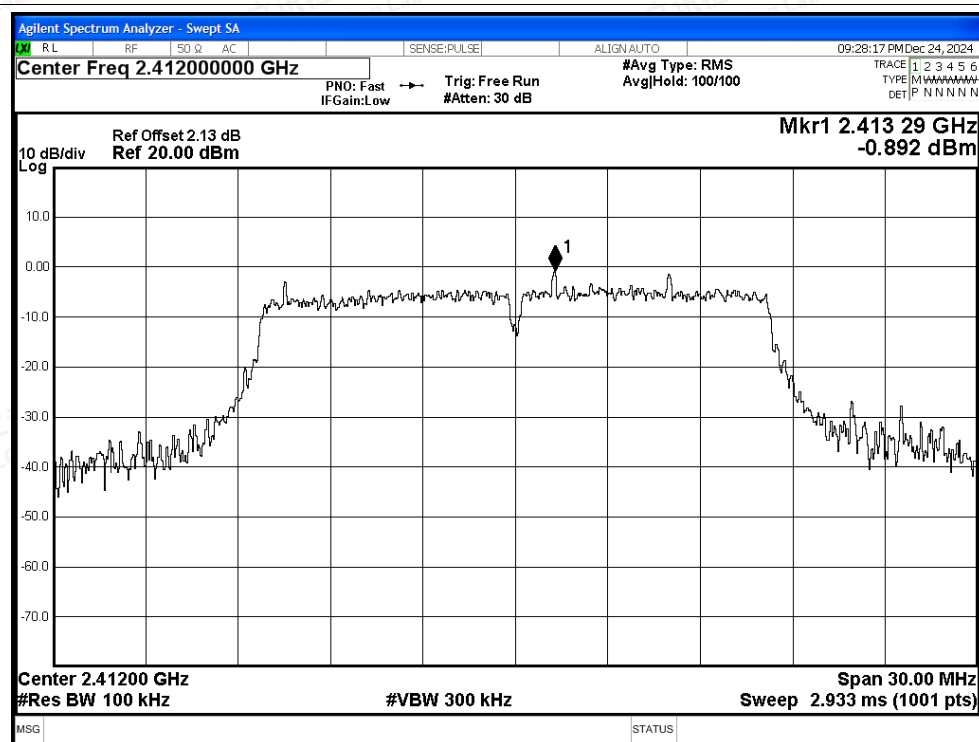
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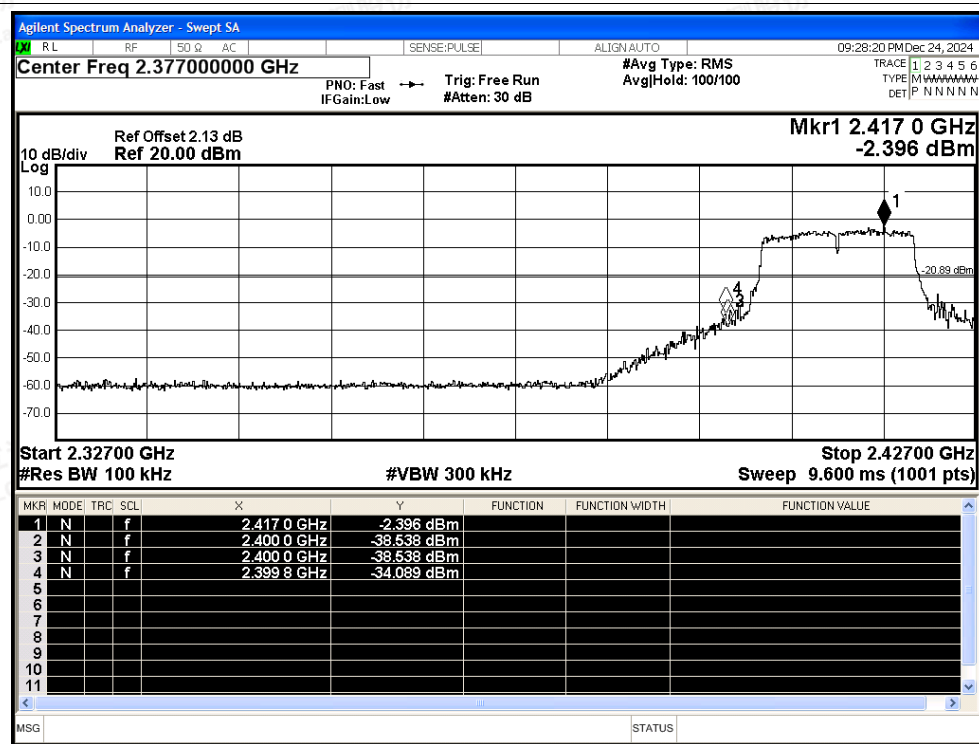
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Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



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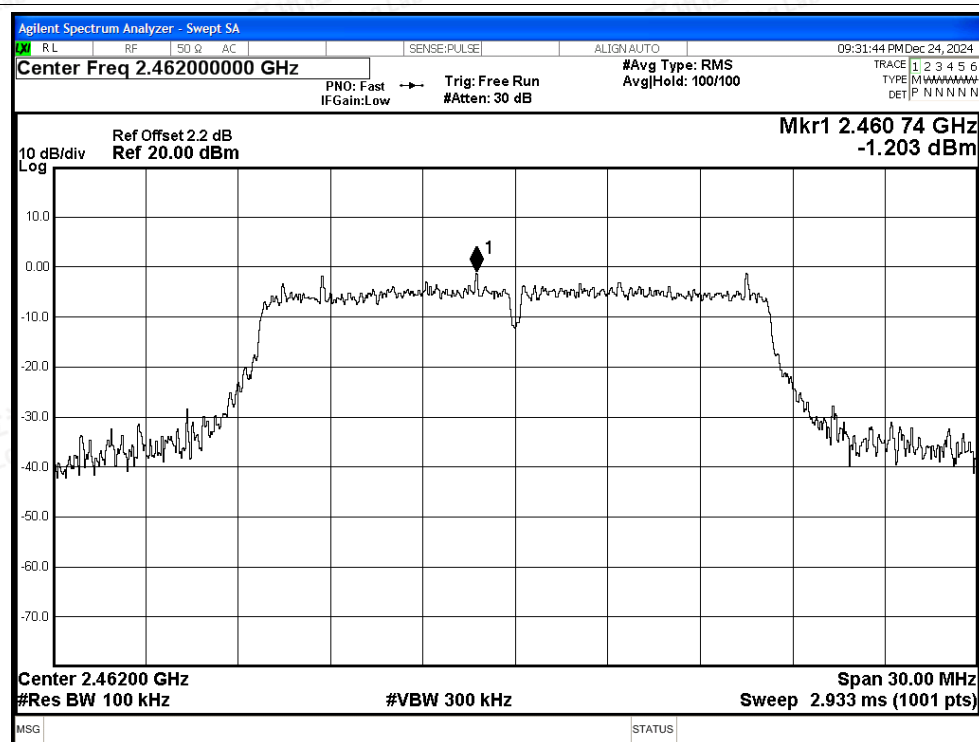
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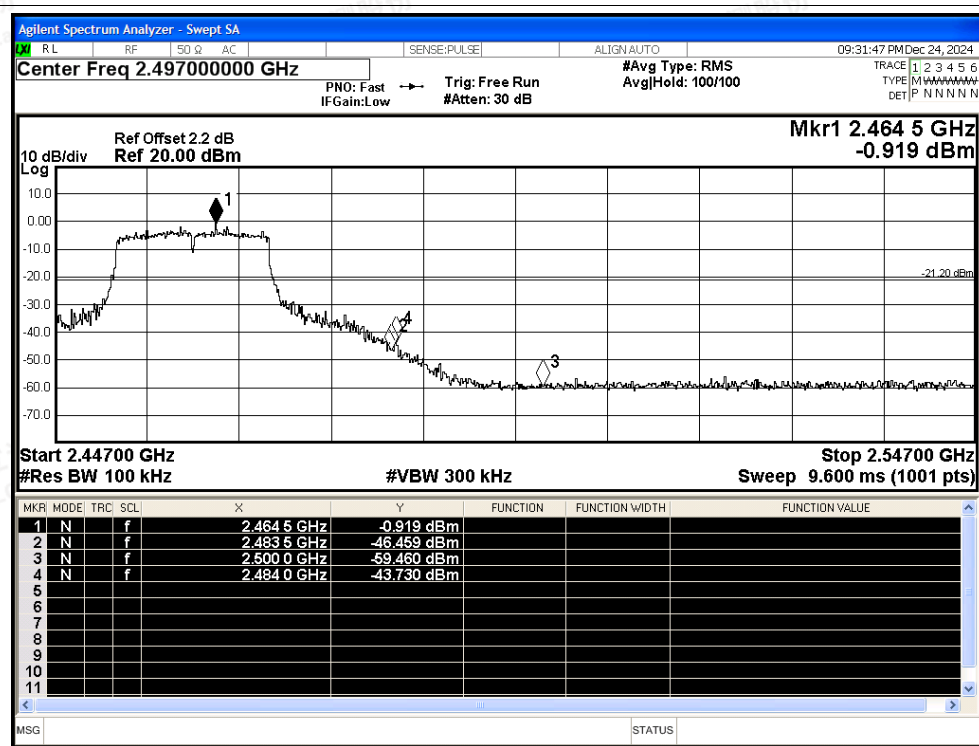
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Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



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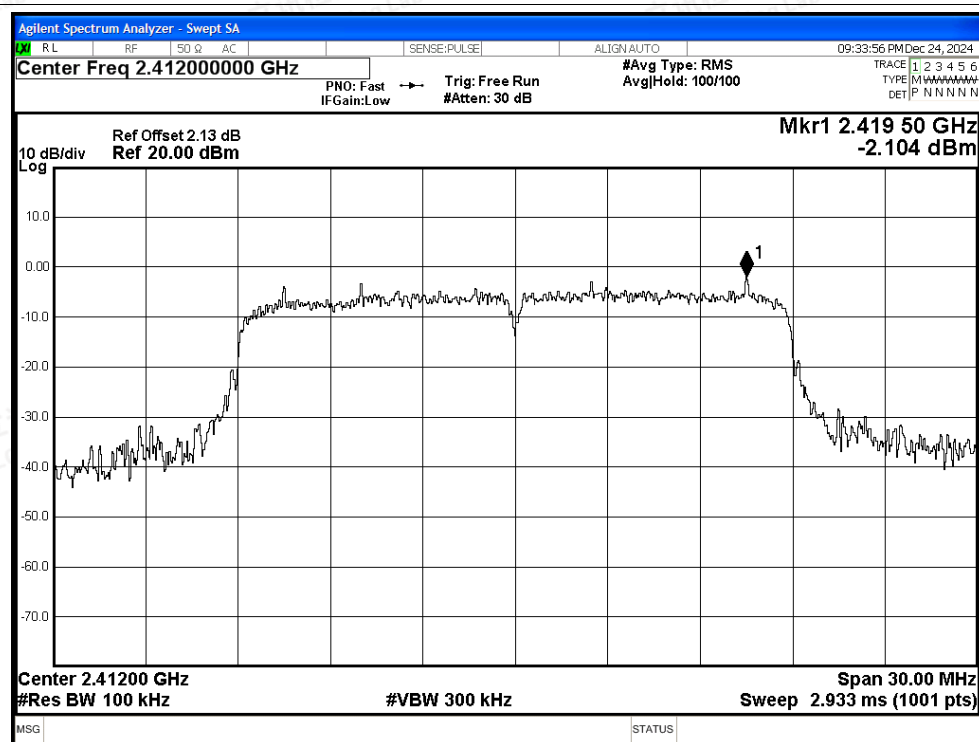
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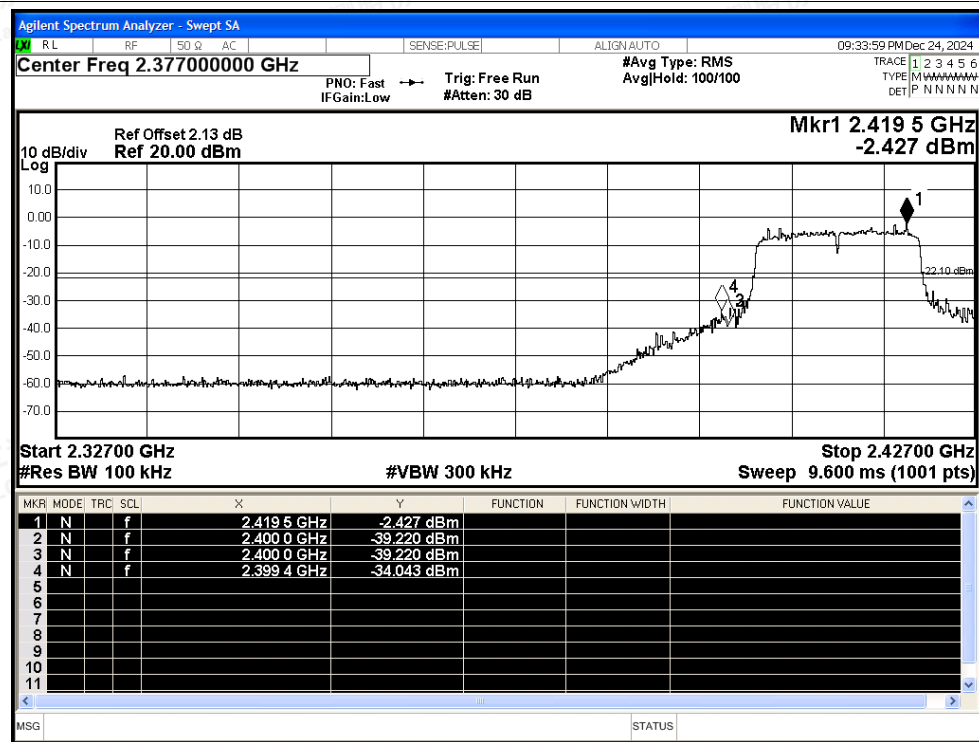
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Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



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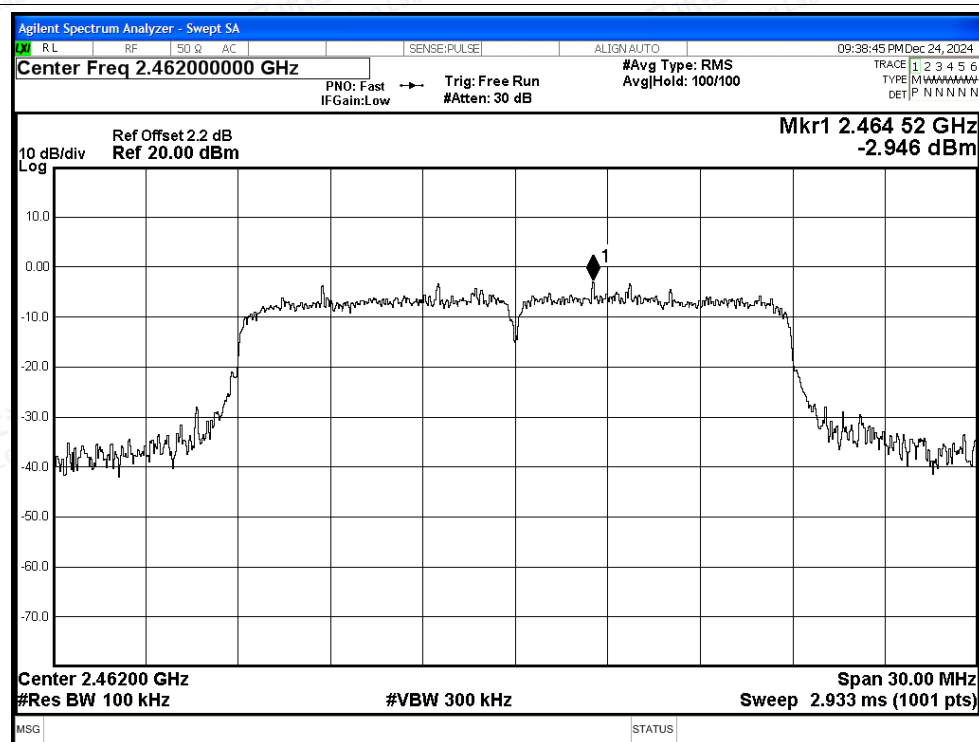
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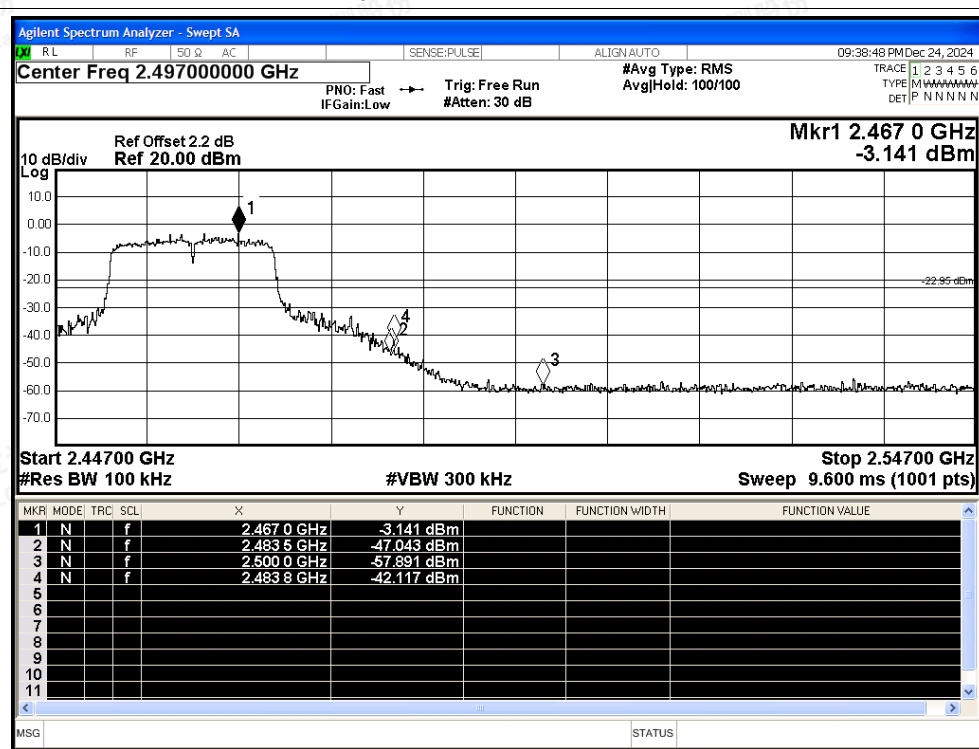
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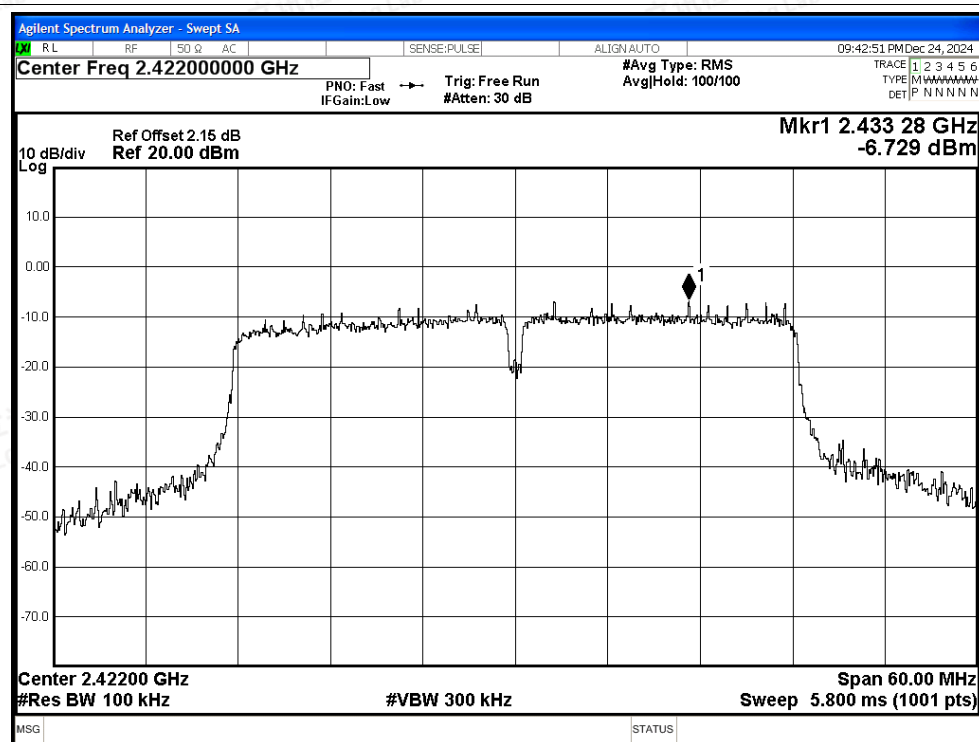


Band Edge NVNT n20 2462MHz Ant1 Emission

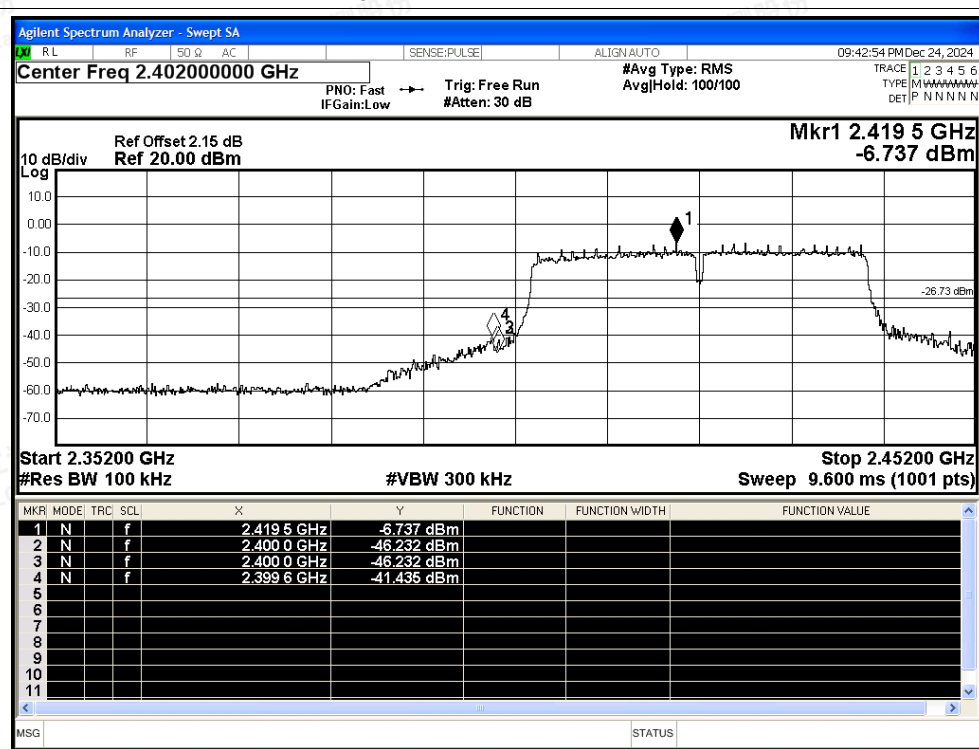




Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission



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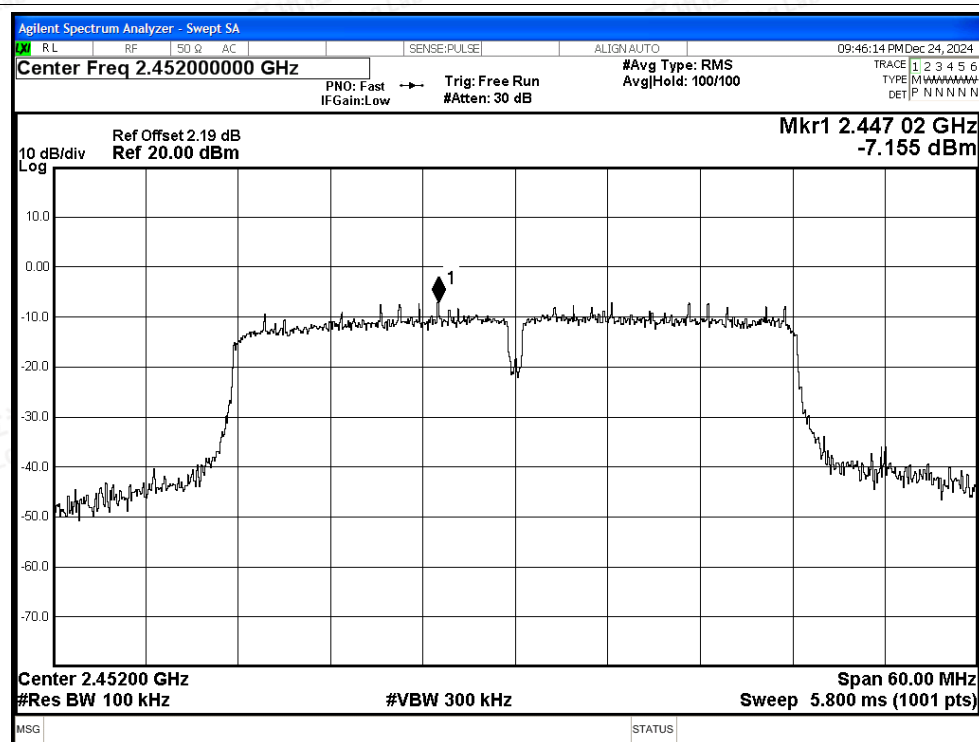
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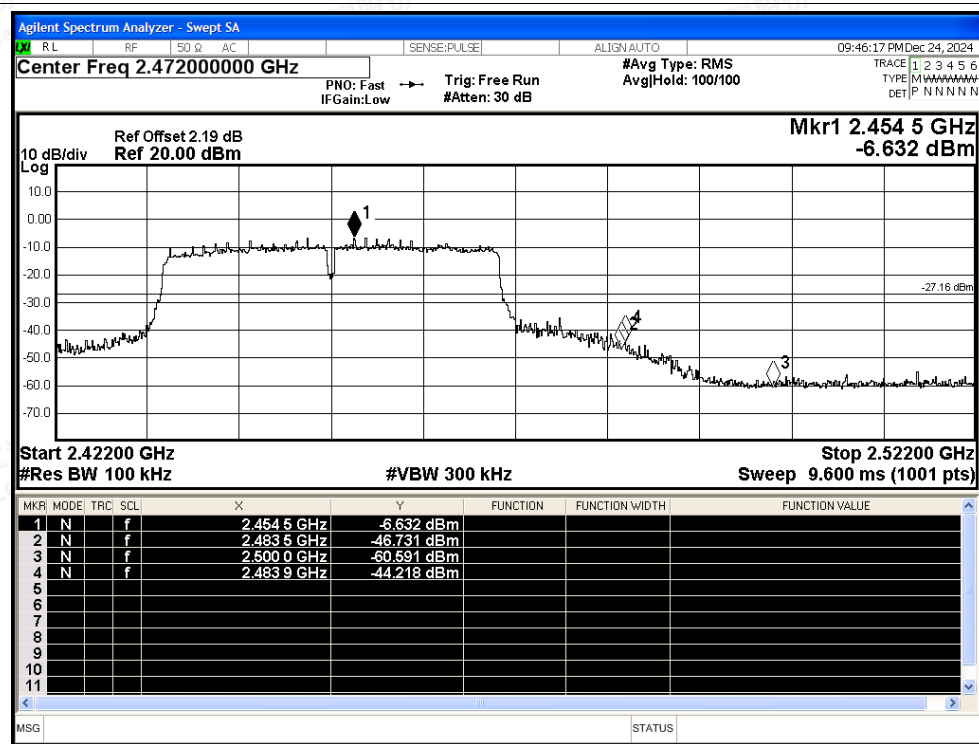
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Band Edge NVNT n40 2452MHz Ant1 Ref



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	-51.57	-20	Pass
NVNT	b	2437	Ant1	-52.34	-20	Pass
NVNT	b	2462	Ant1	-51.2	-20	Pass
NVNT	g	2412	Ant1	-45.39	-20	Pass
NVNT	g	2437	Ant1	-44.73	-20	Pass
NVNT	g	2462	Ant1	-44.22	-20	Pass
NVNT	n20	2412	Ant1	-44.04	-20	Pass
NVNT	n20	2437	Ant1	-42.76	-20	Pass
NVNT	n20	2462	Ant1	-42.78	-20	Pass
NVNT	n40	2422	Ant1	-40.14	-20	Pass
NVNT	n40	2437	Ant1	-40.03	-20	Pass
NVNT	n40	2452	Ant1	-39.92	-20	Pass



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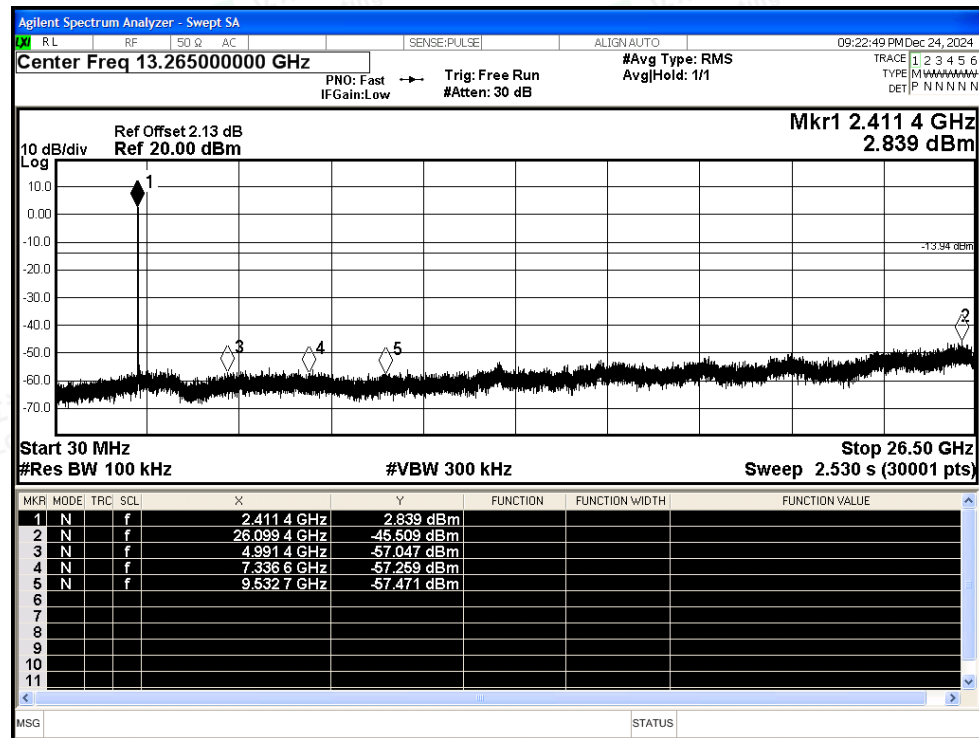


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



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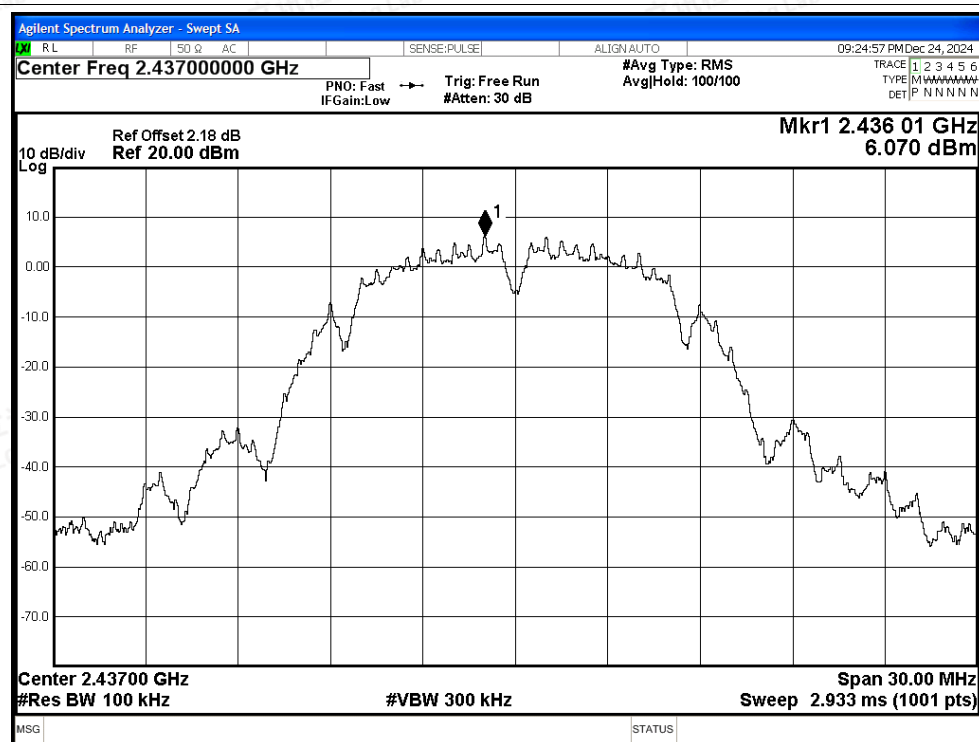
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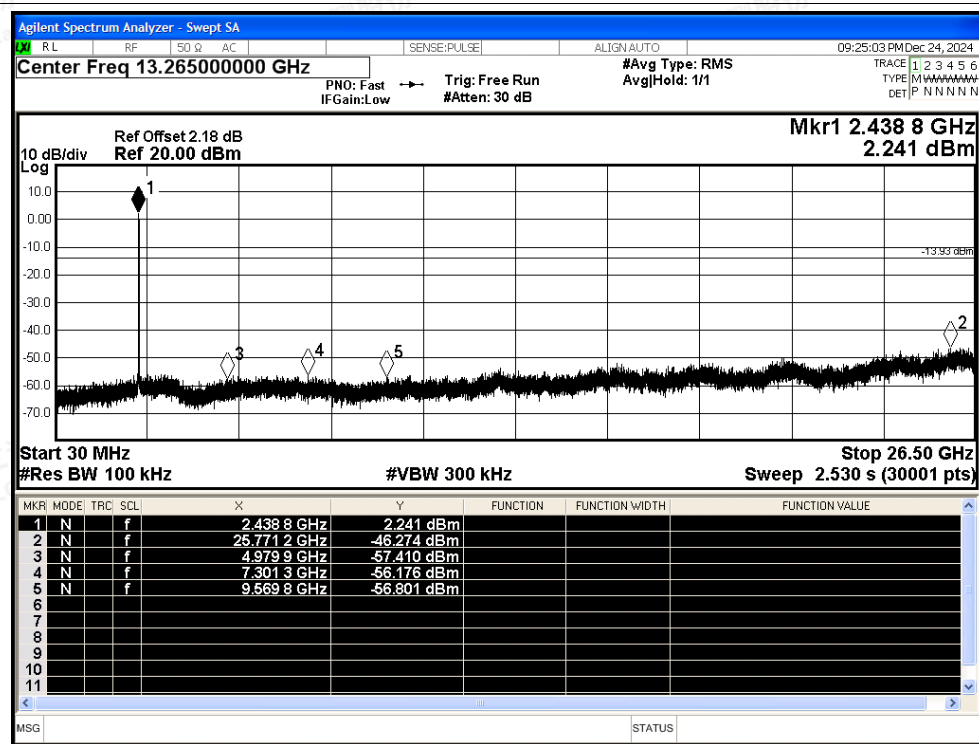
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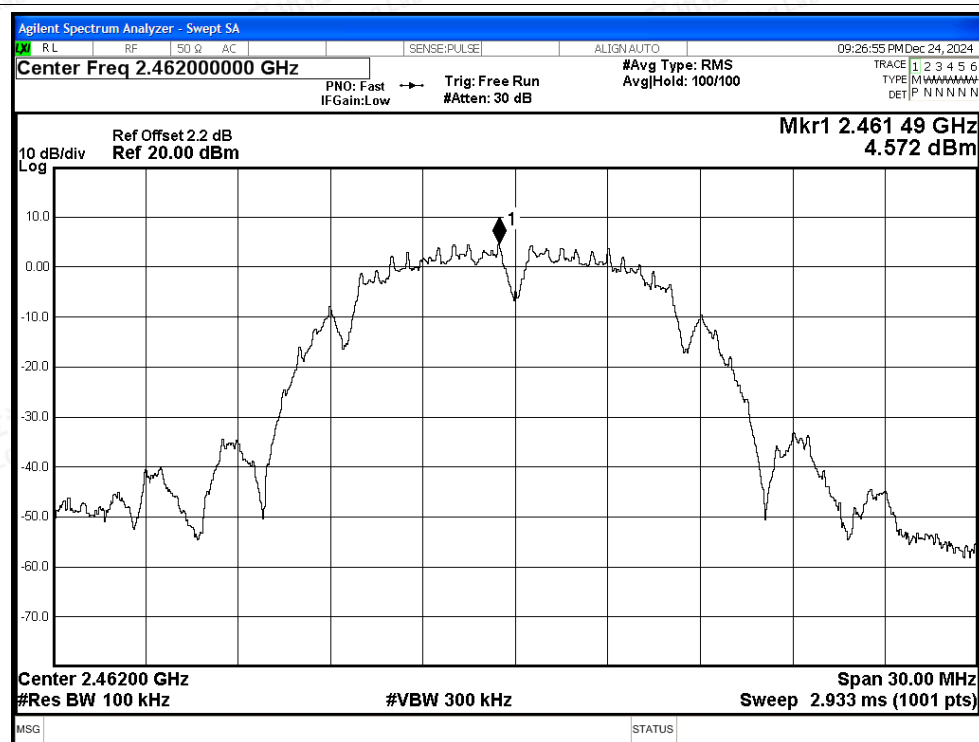


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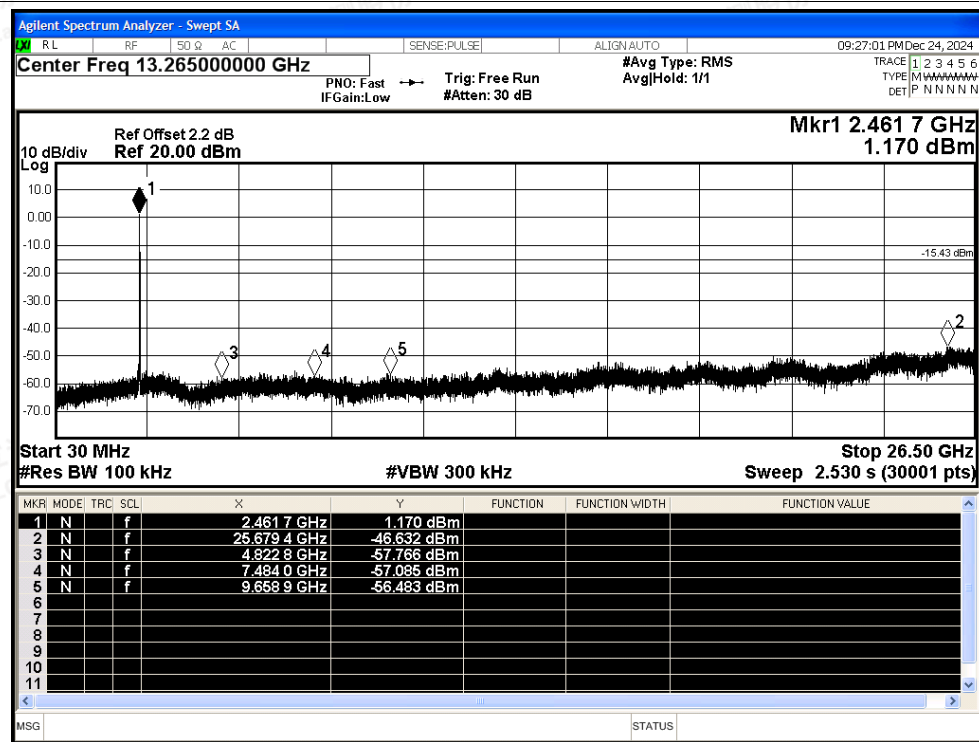




Tx. Spurious NVNT b 2462MHz Ant1 Ref



Tx. Spurious NVNT b 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

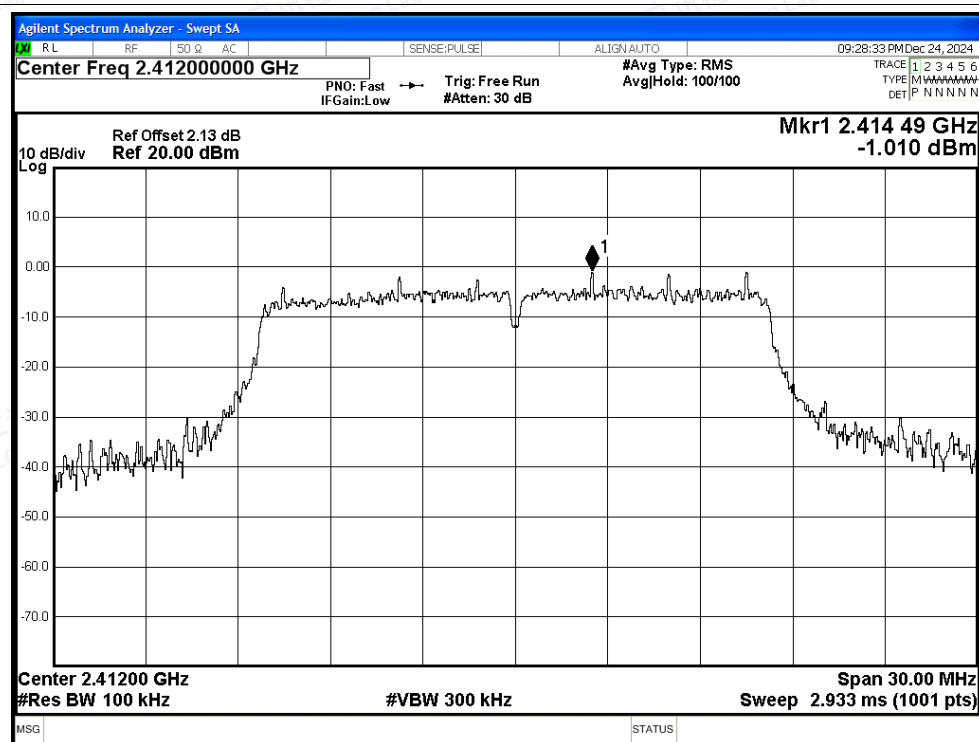
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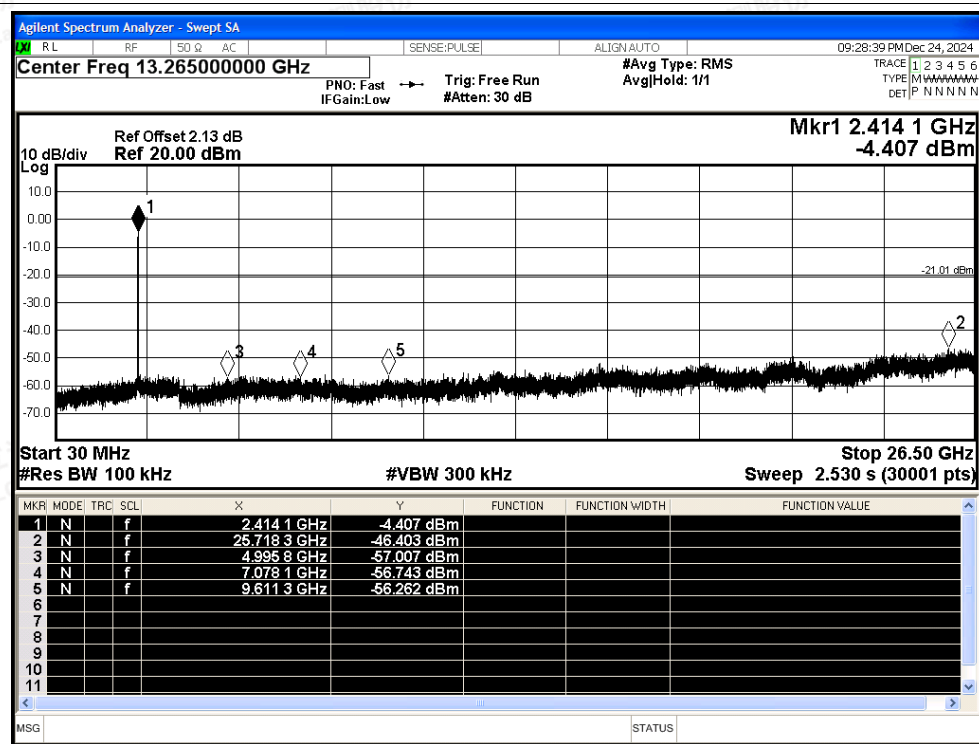
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Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission



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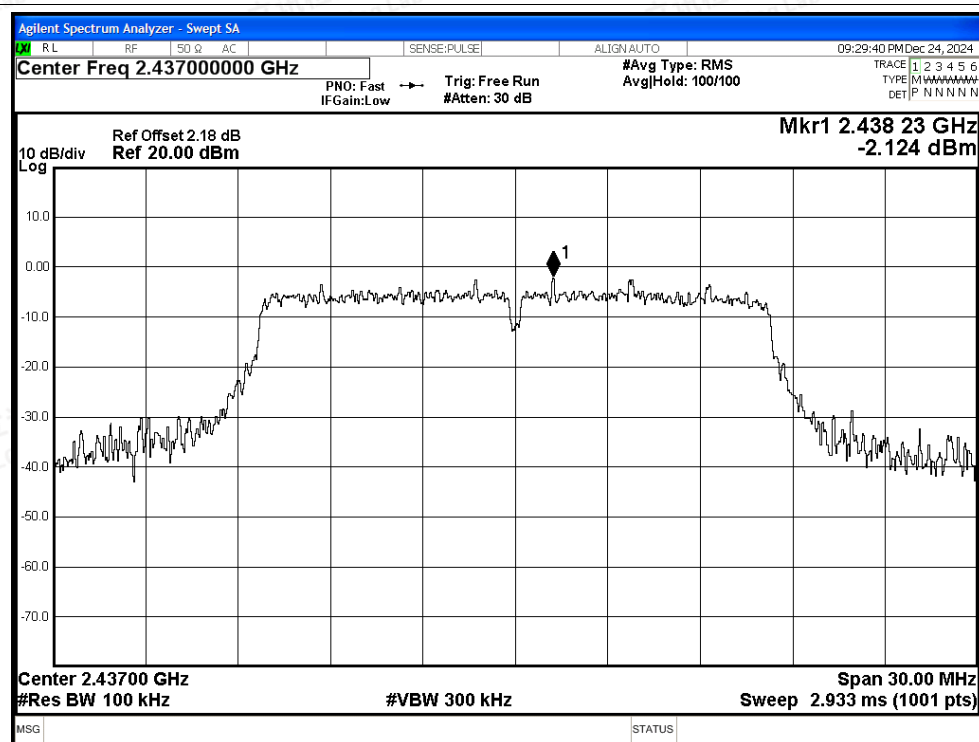
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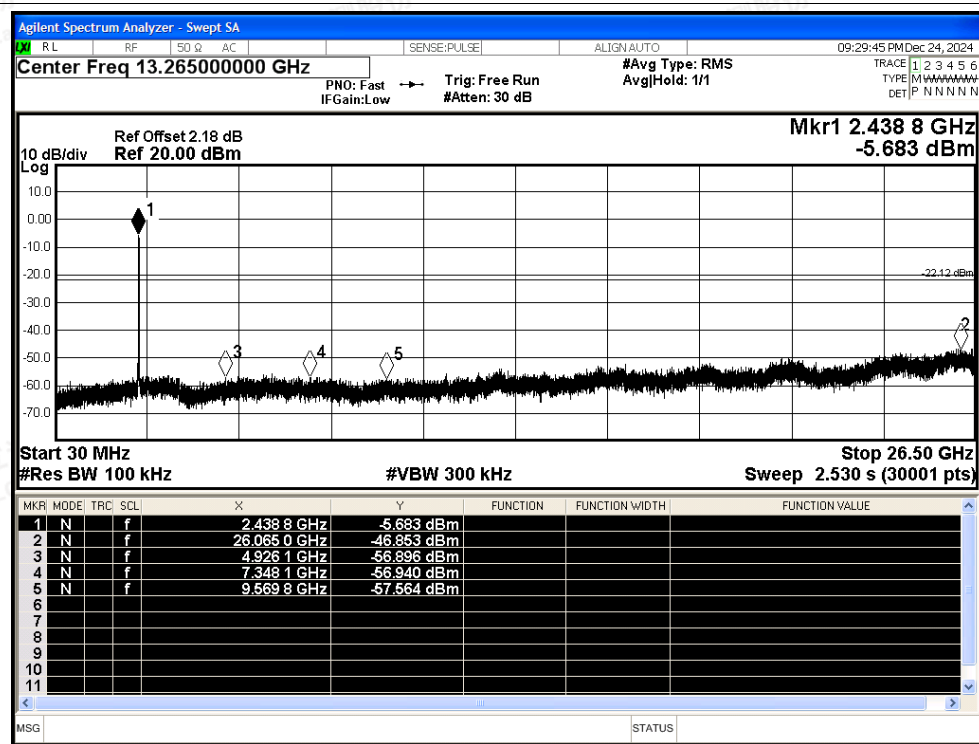
Scan code to check authenticity



Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

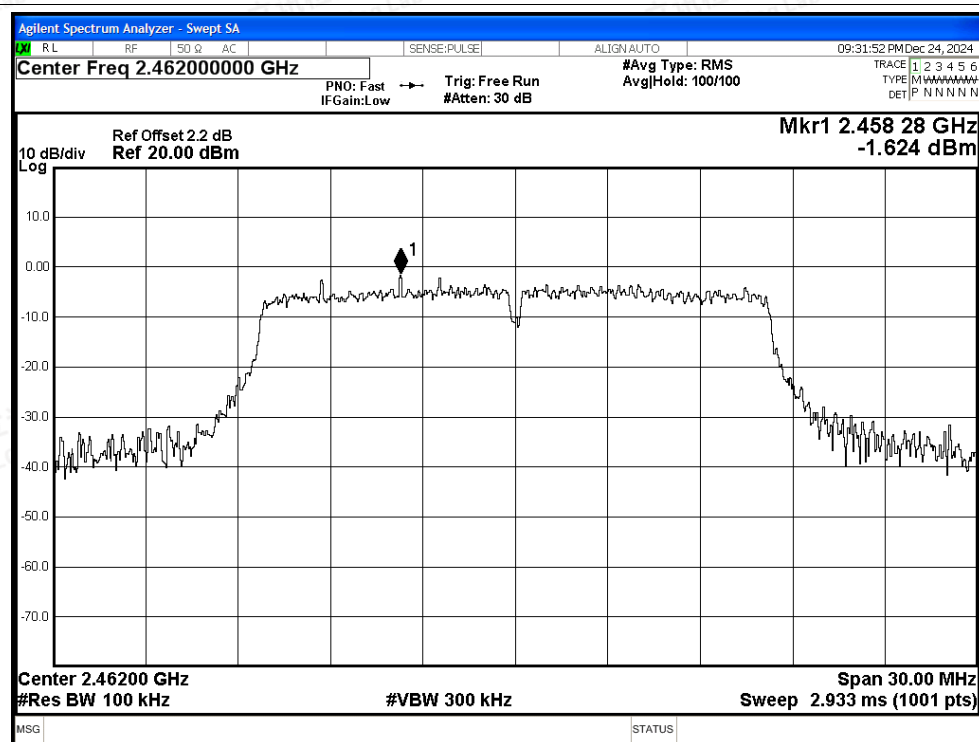
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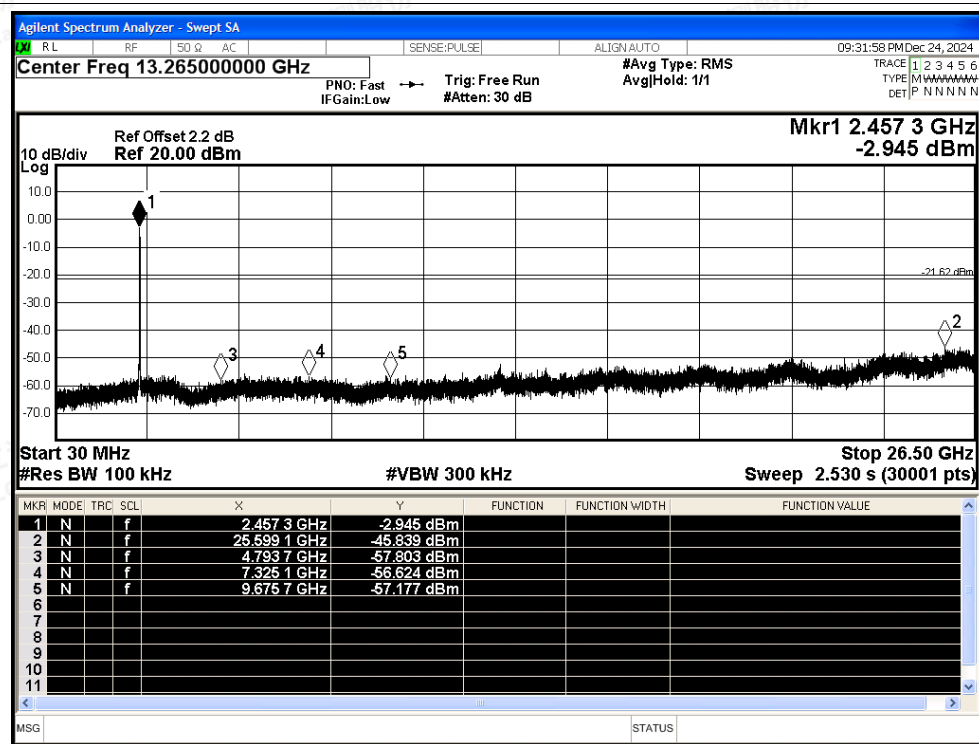
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Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission



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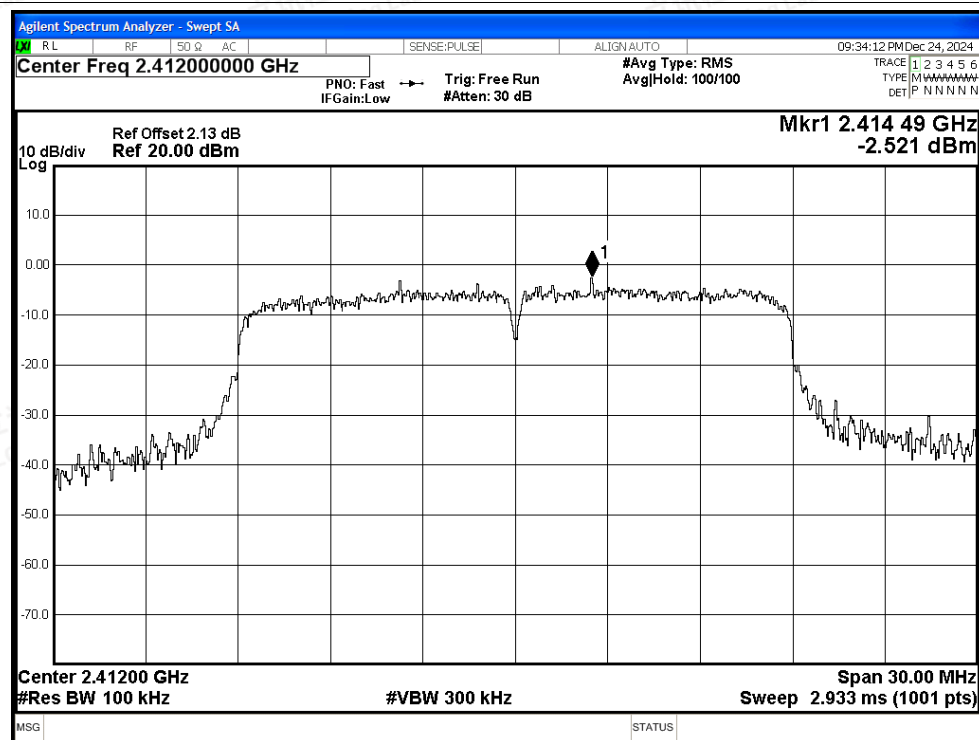
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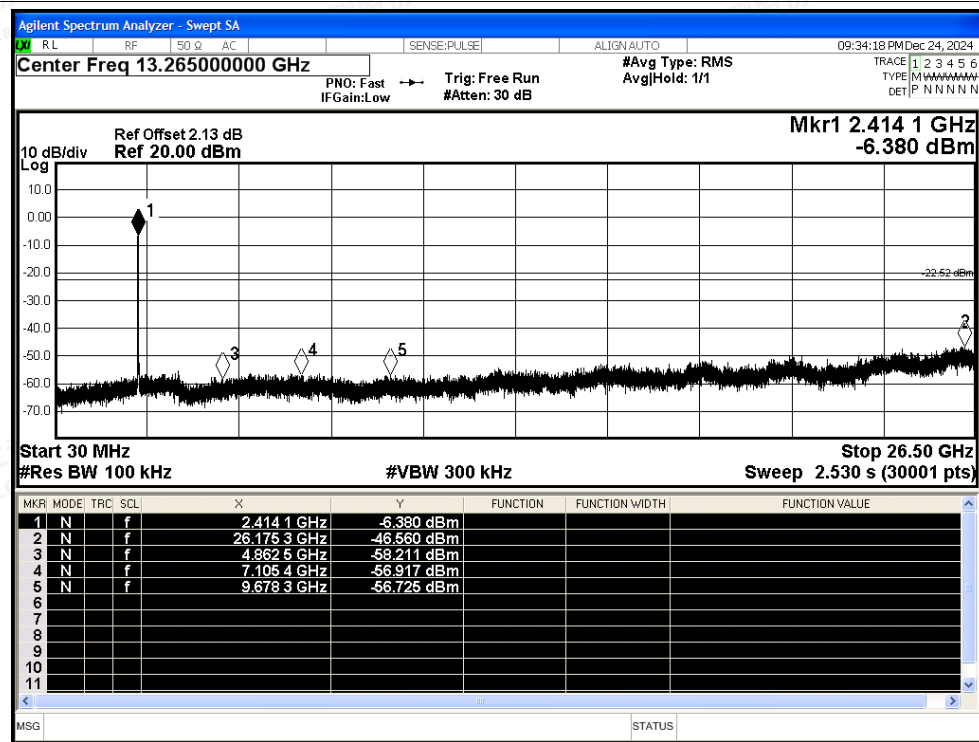
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Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission



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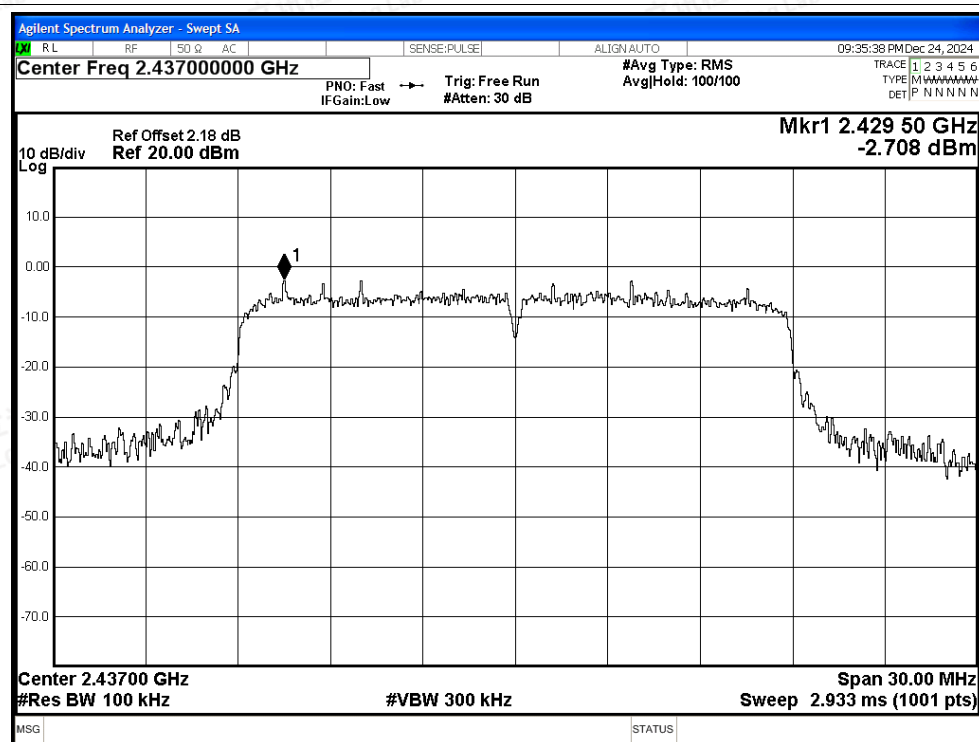
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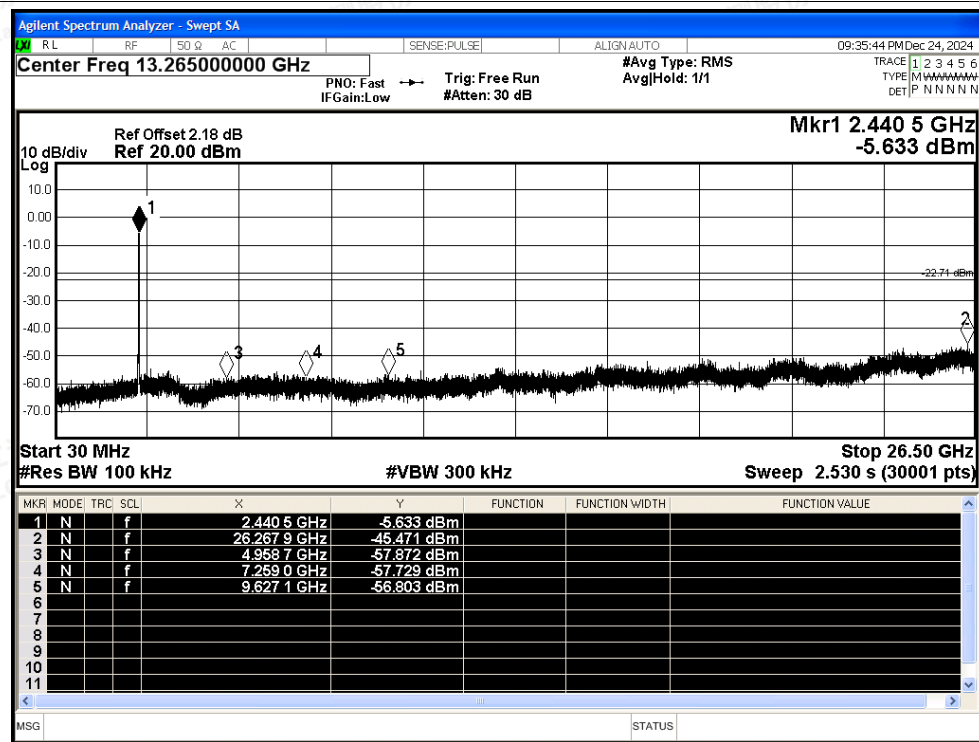
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Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

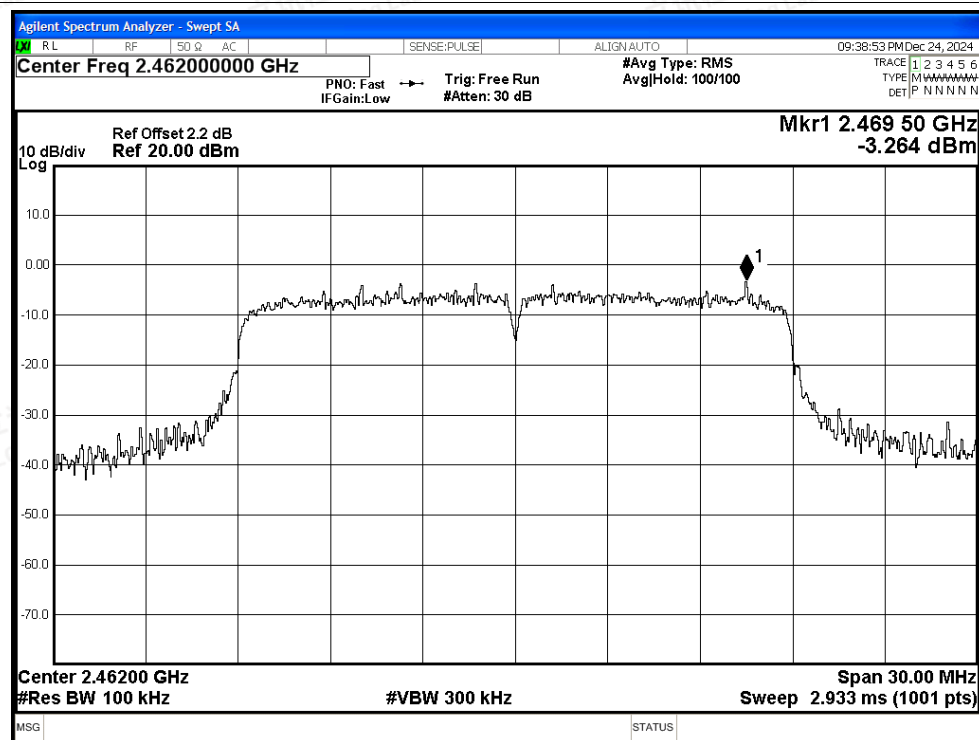
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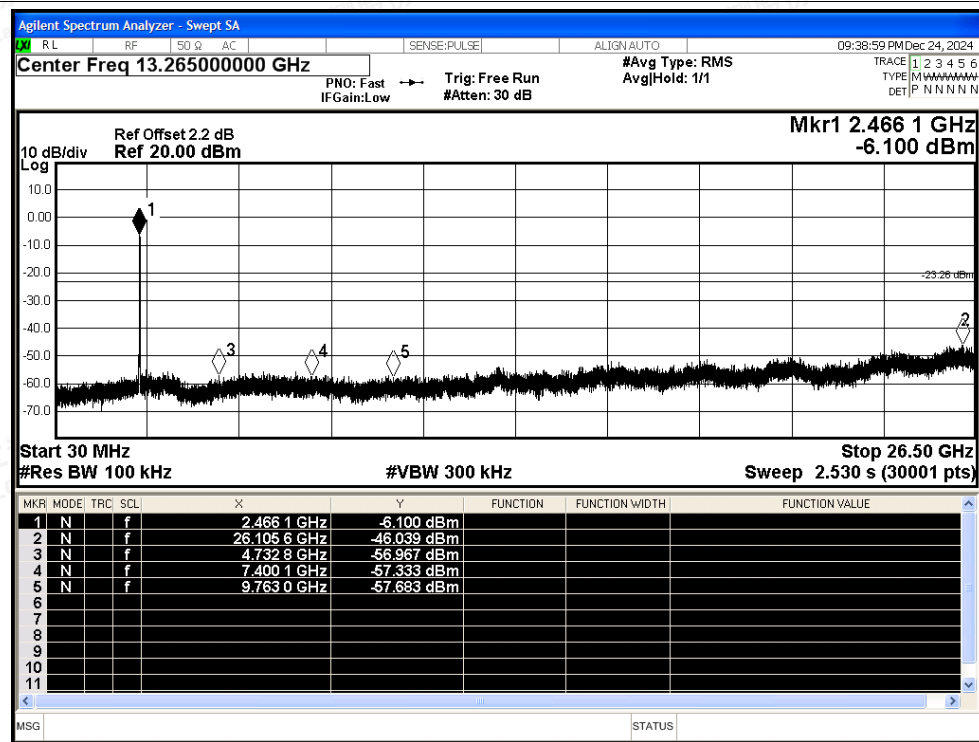
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Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission



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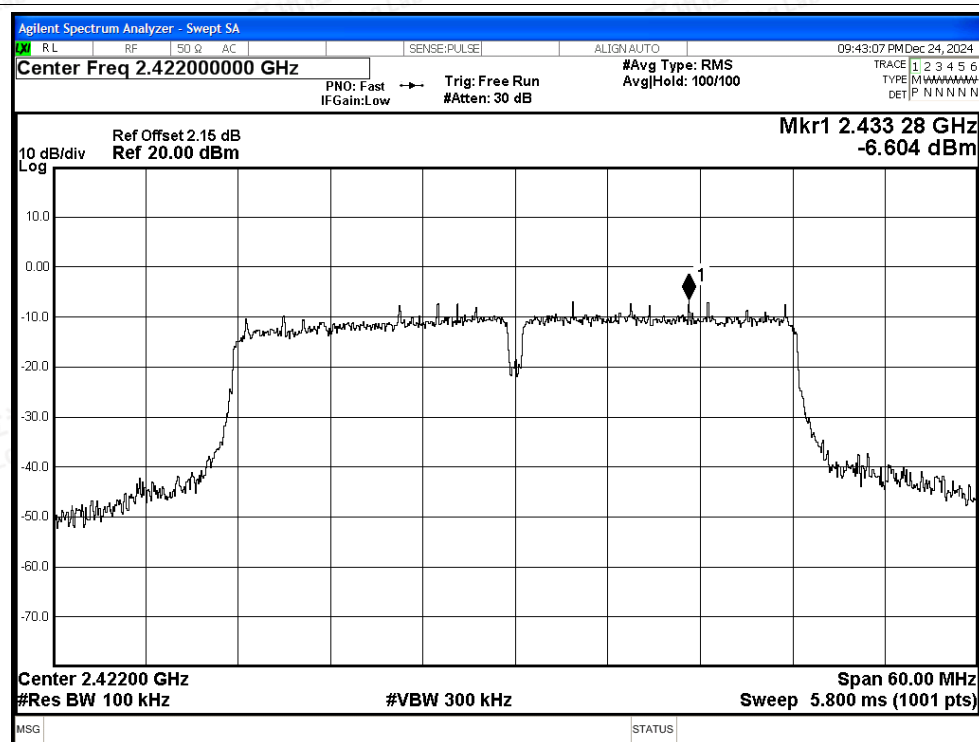
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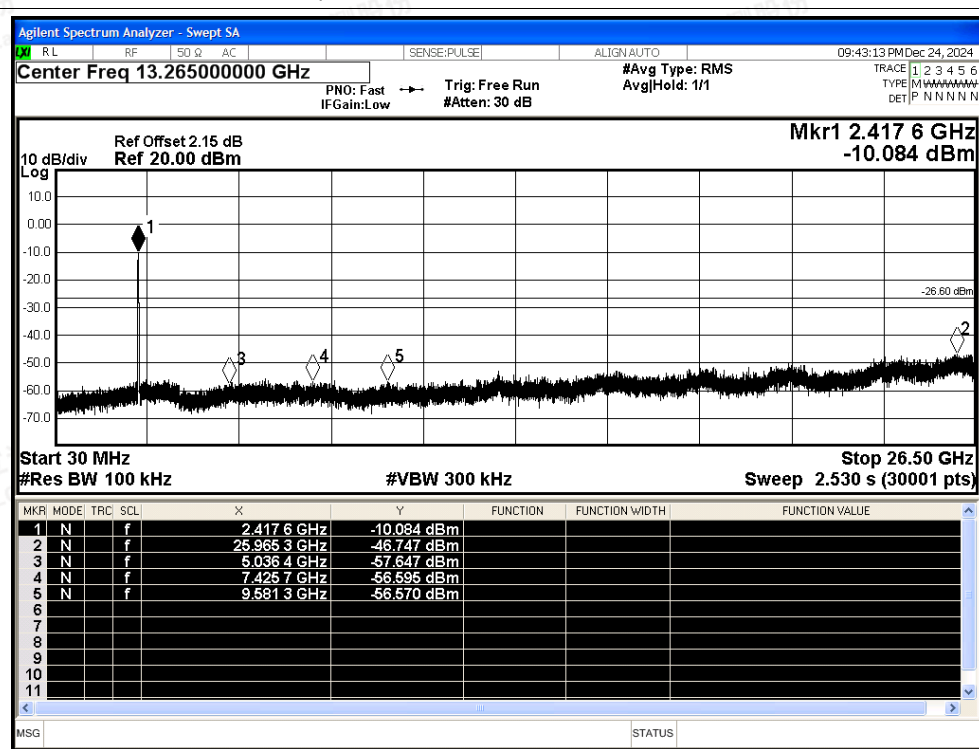
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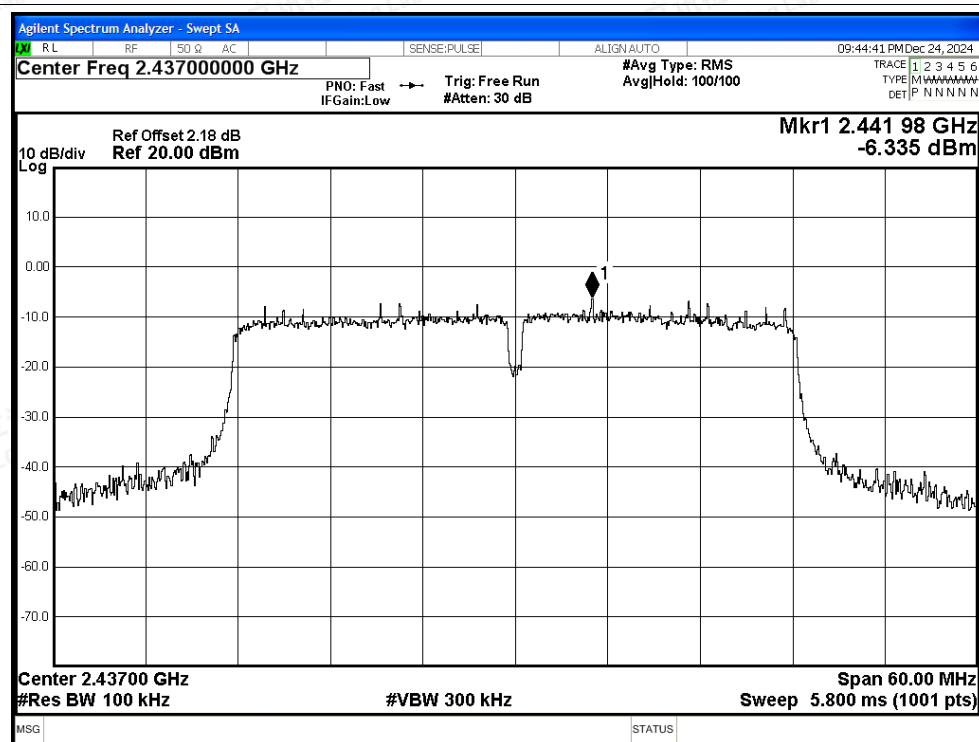


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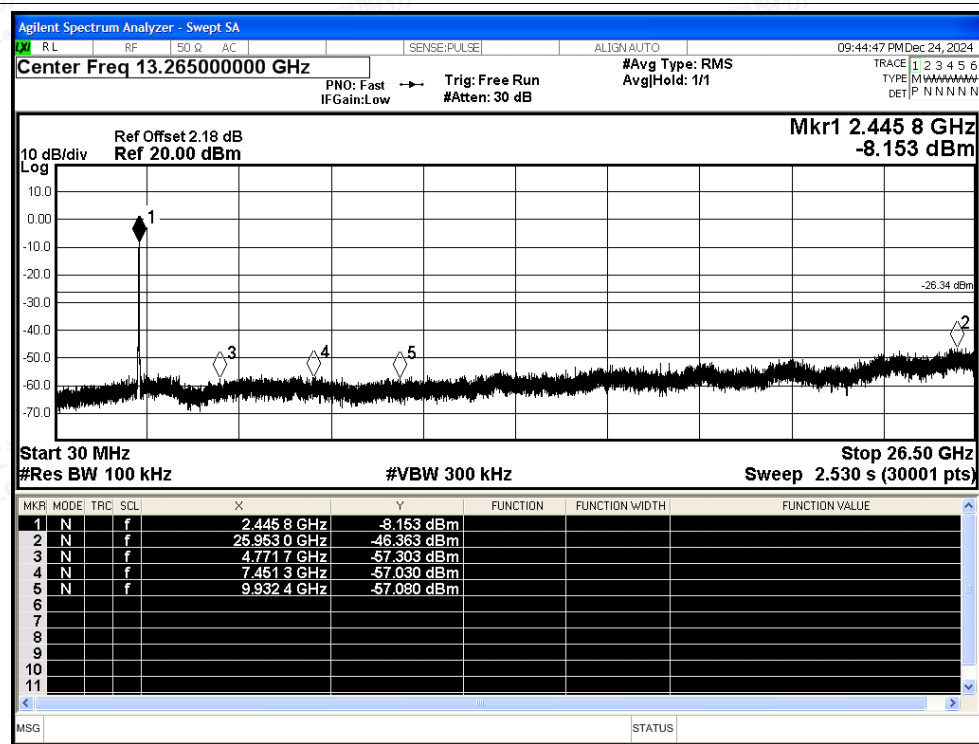




Tx. Spurious NVNT n40 2437MHz Ant1 Ref



Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

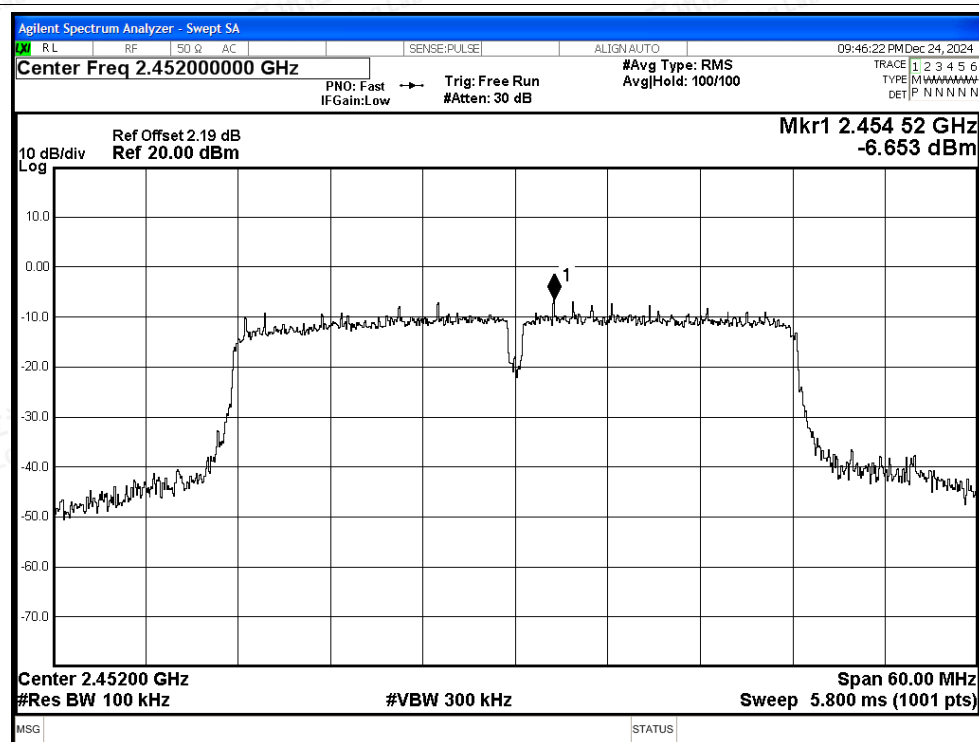
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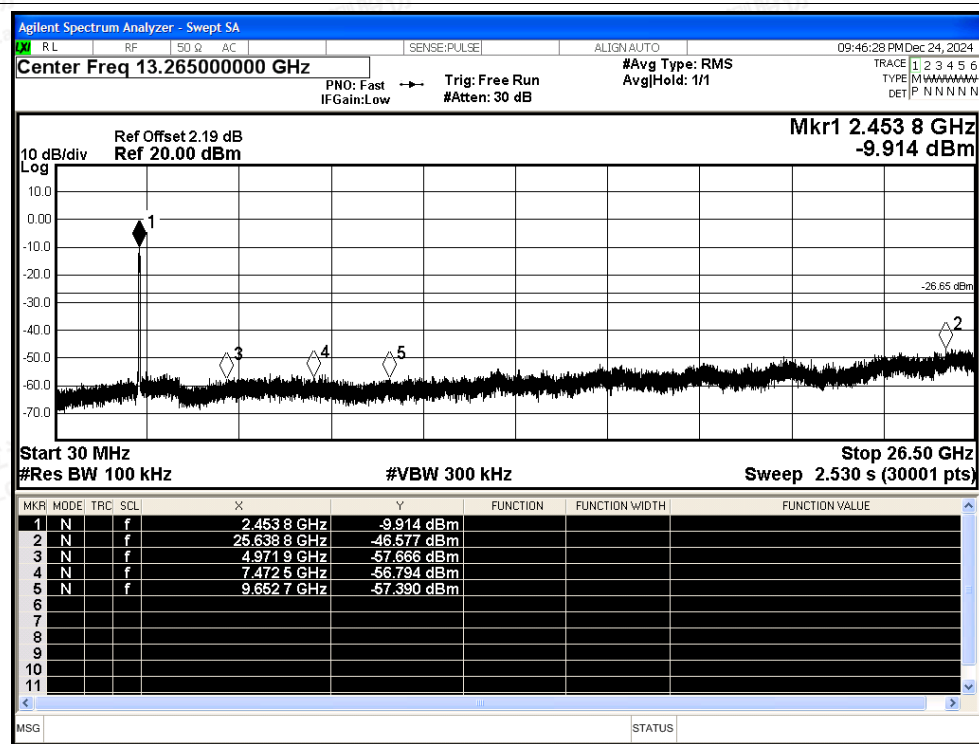
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Tx. Spurious NVNT n40 2452MHz Ant1 Ref



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A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.16	0	0.15
NVNT	b	2437	Ant1	99.13	0	0.15
NVNT	b	2462	Ant1	99.13	0	0.15
NVNT	g	2412	Ant1	97.75	0.1	0.37
NVNT	g	2437	Ant1	97.68	0.1	0.37
NVNT	g	2462	Ant1	97.68	0.1	0.37
NVNT	n20	2412	Ant1	97.25	0.12	0.44
NVNT	n20	2437	Ant1	97.25	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

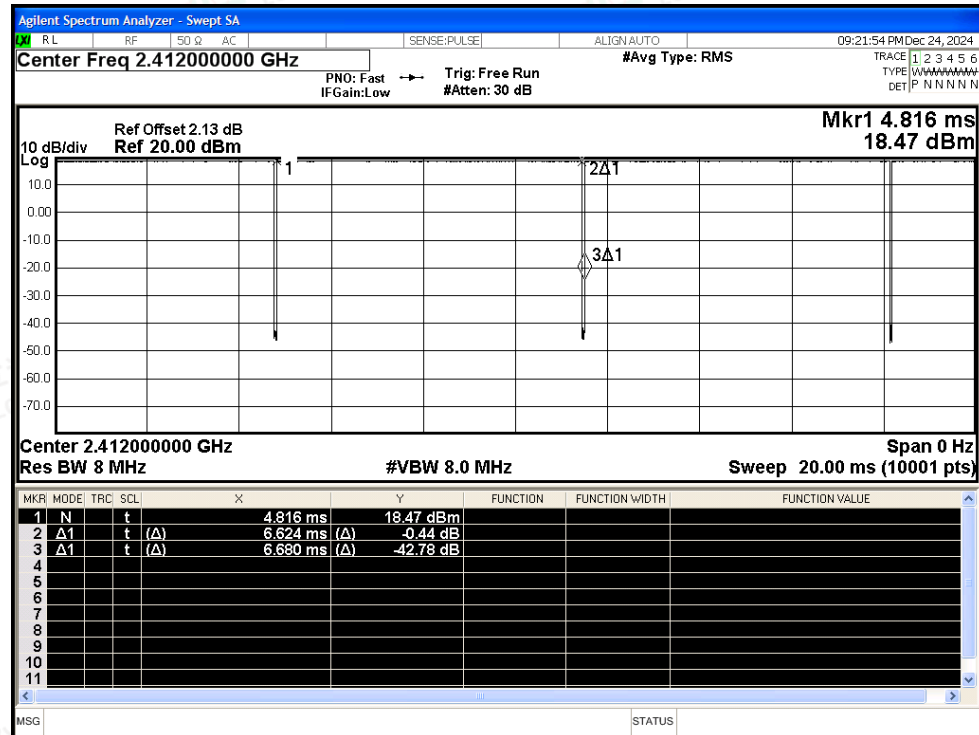


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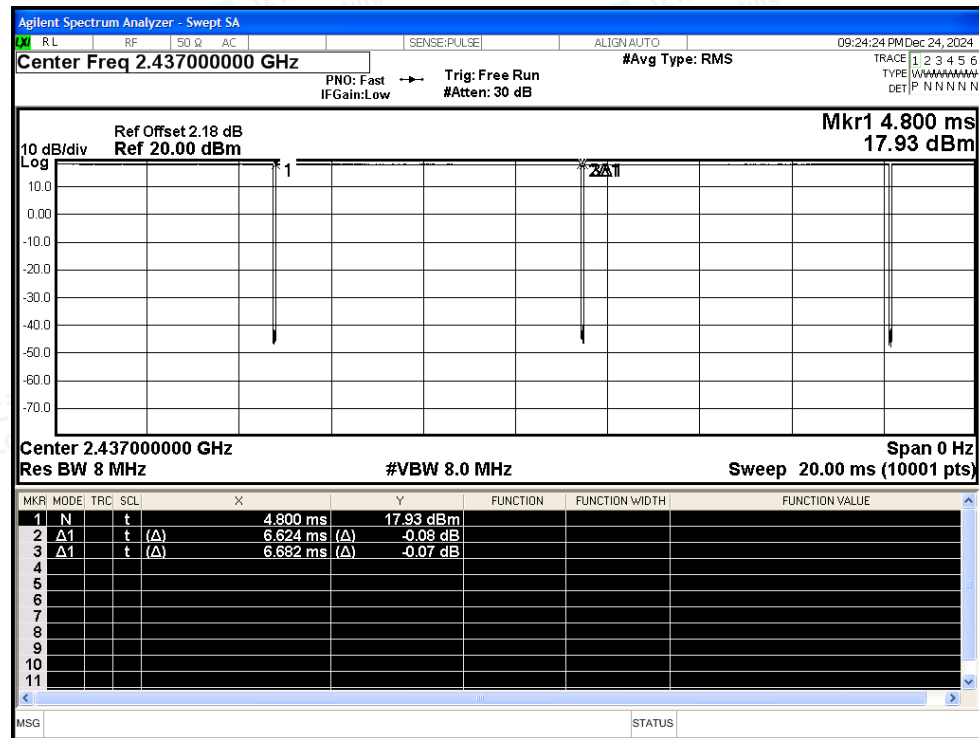


Test Graphs

Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

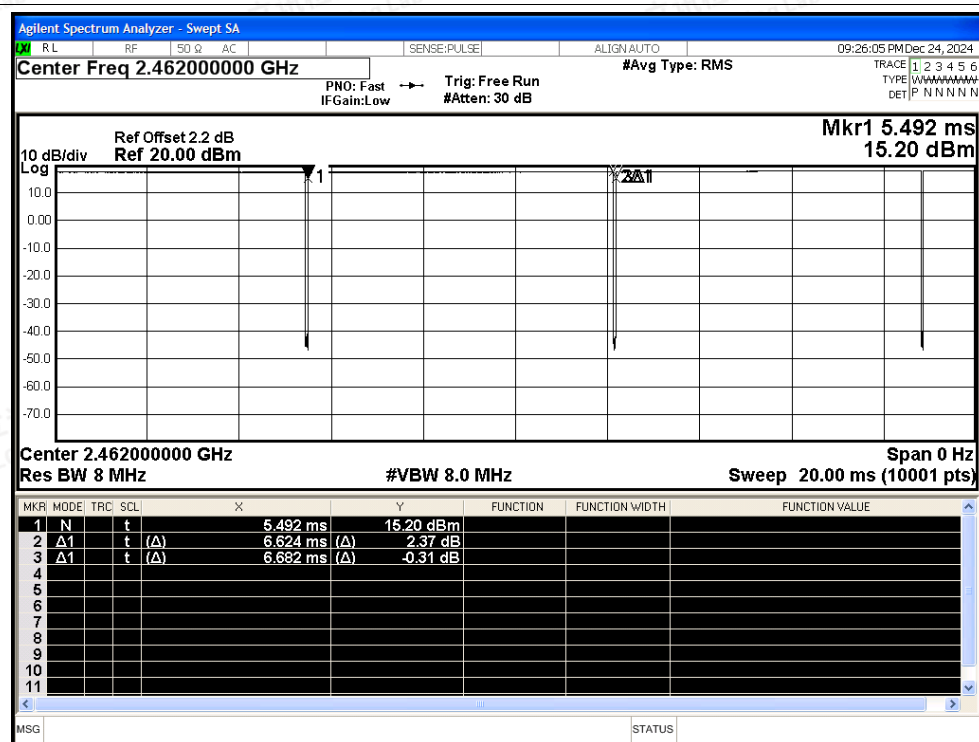
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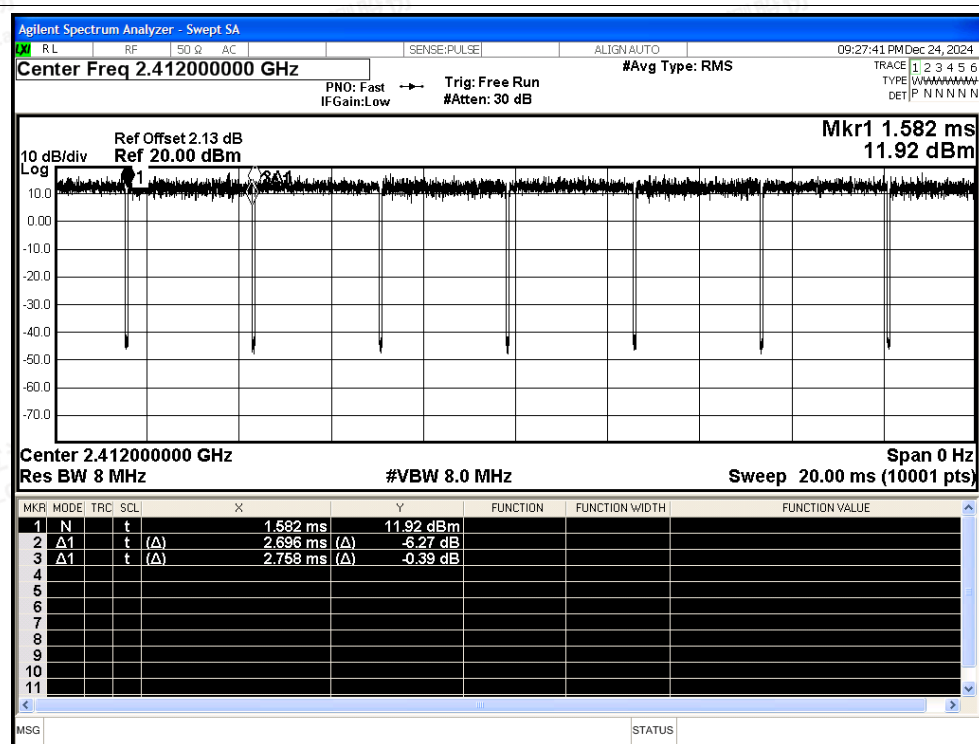
Scan code to check authenticity



Duty Cycle NVNT b 2462MHz Ant1



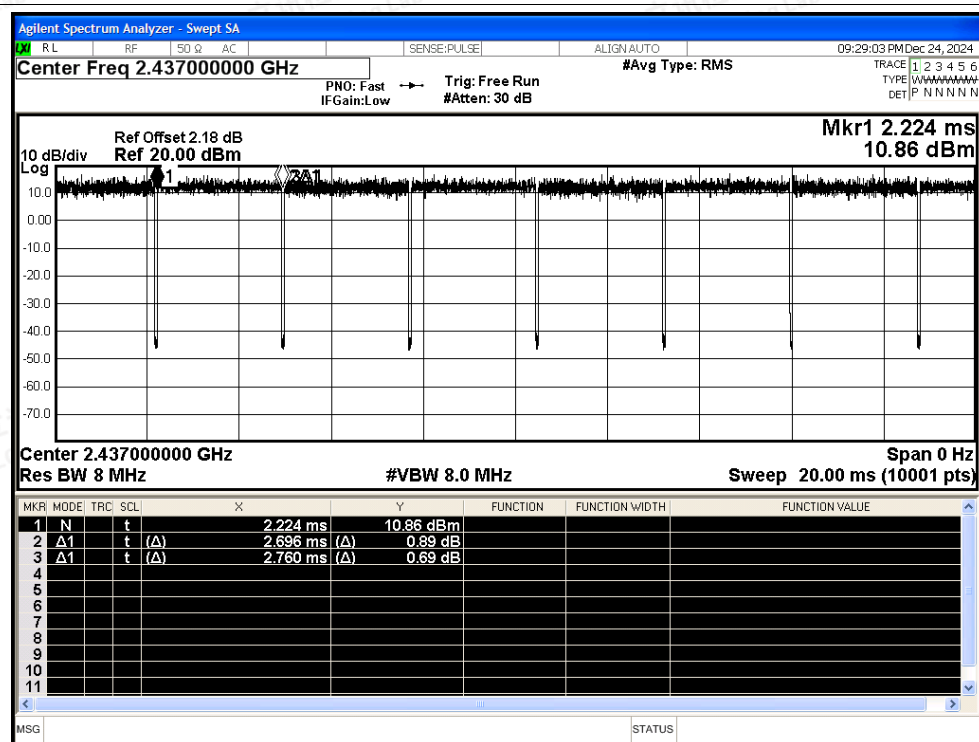
Duty Cycle NVNT g 2412MHz Ant1



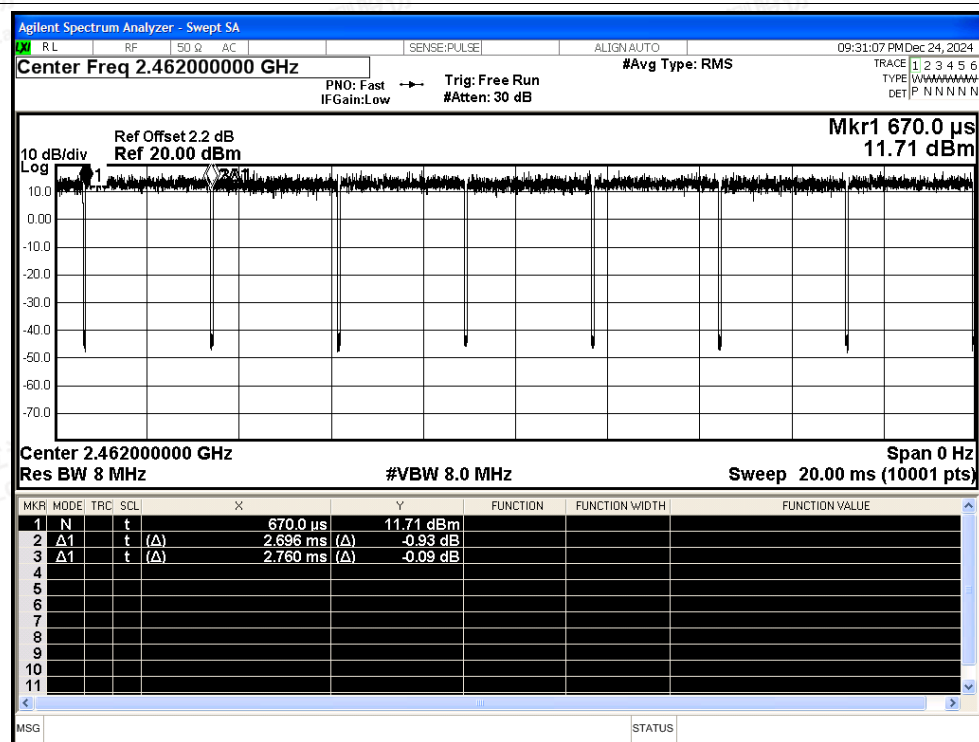
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Duty Cycle NVNT g 2437MHz Ant1

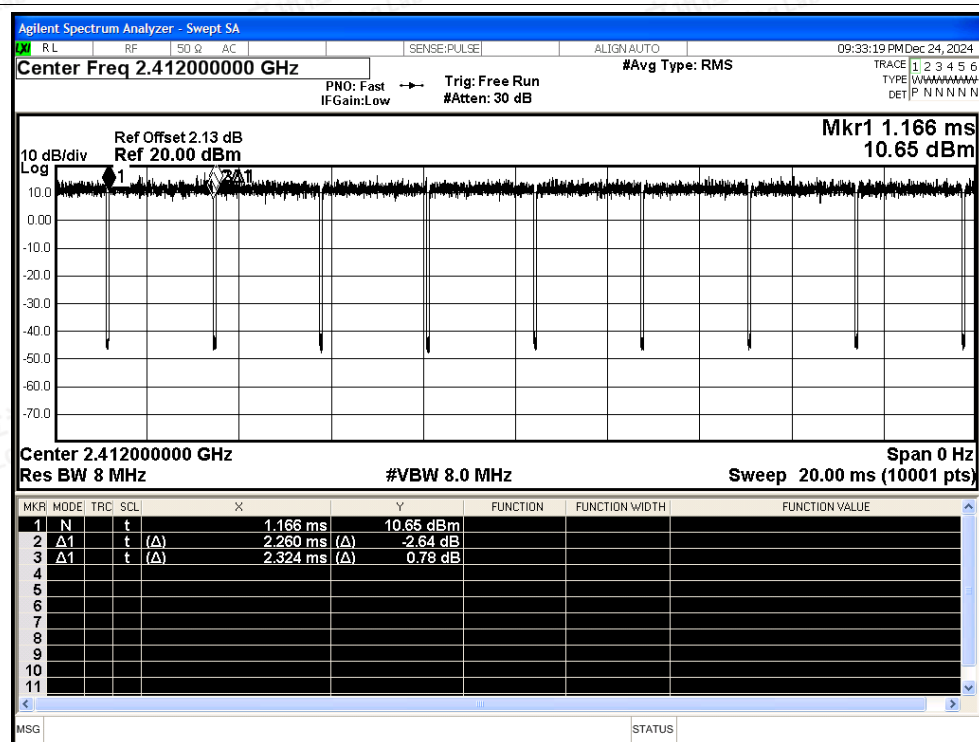


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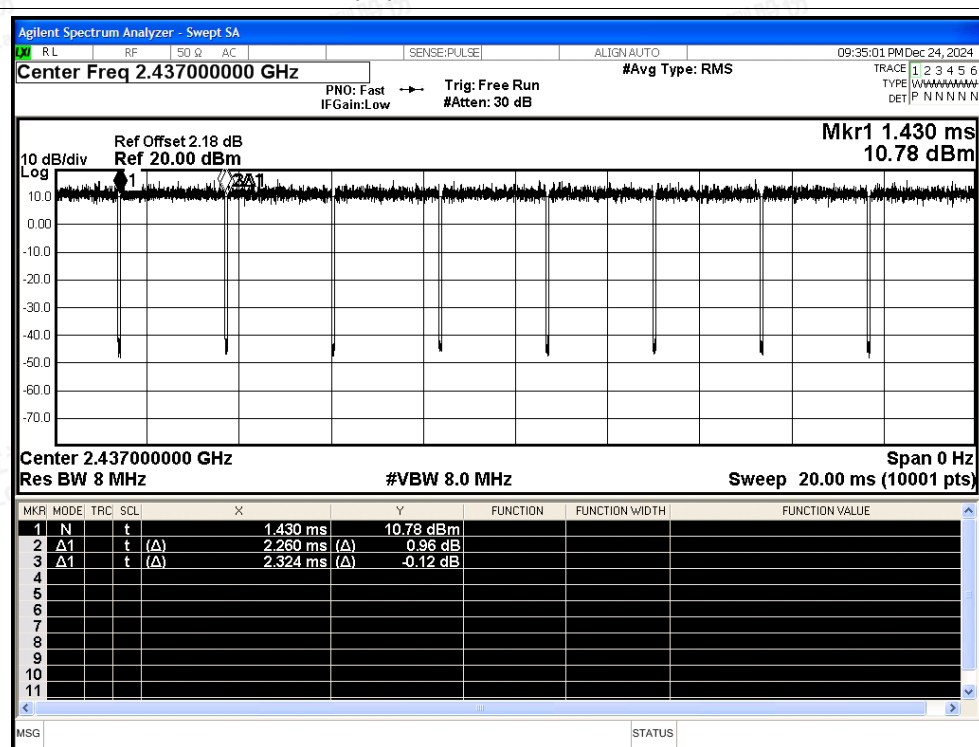




Duty Cycle NVNT n20 2412MHz Ant1

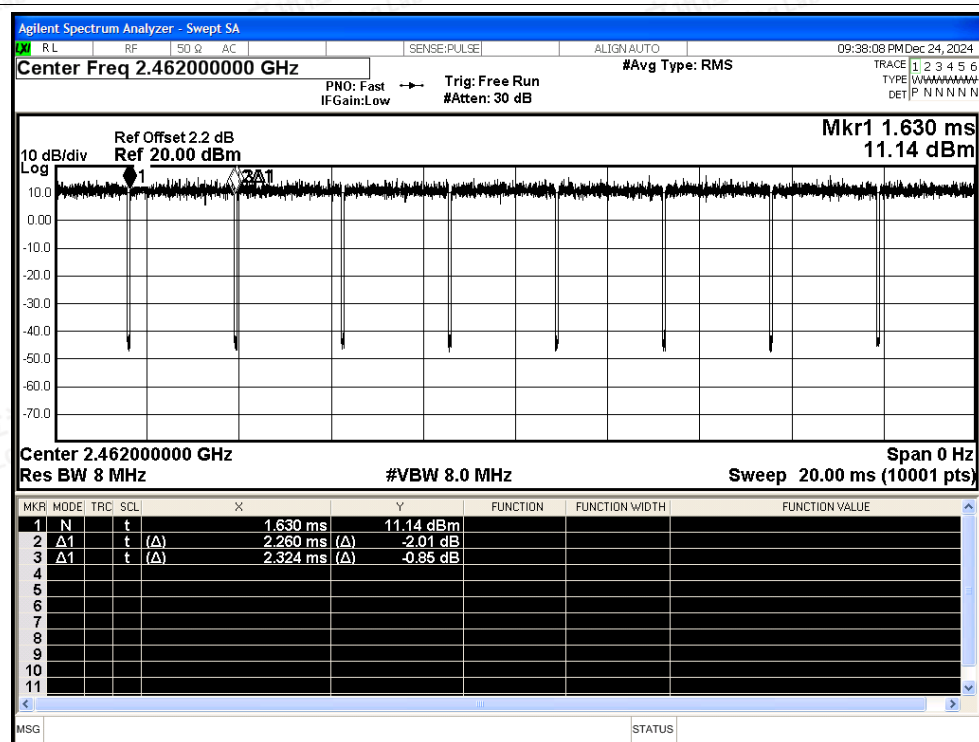


Duty Cycle NVNT n20 2437MHz Ant1

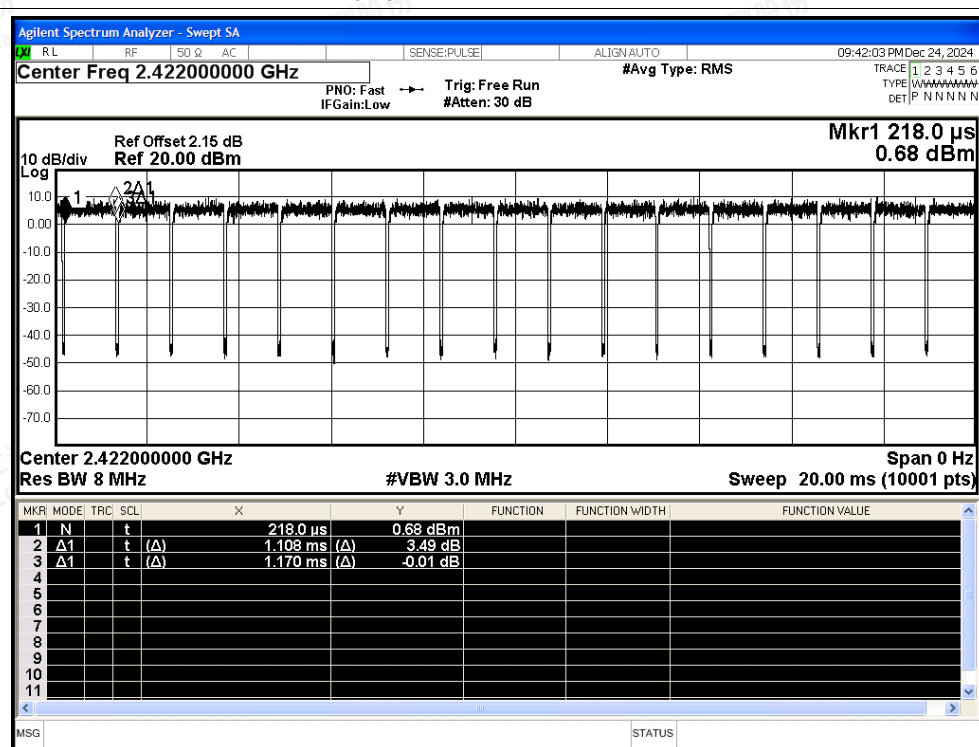




Duty Cycle NVNT n20 2462MHz Ant1

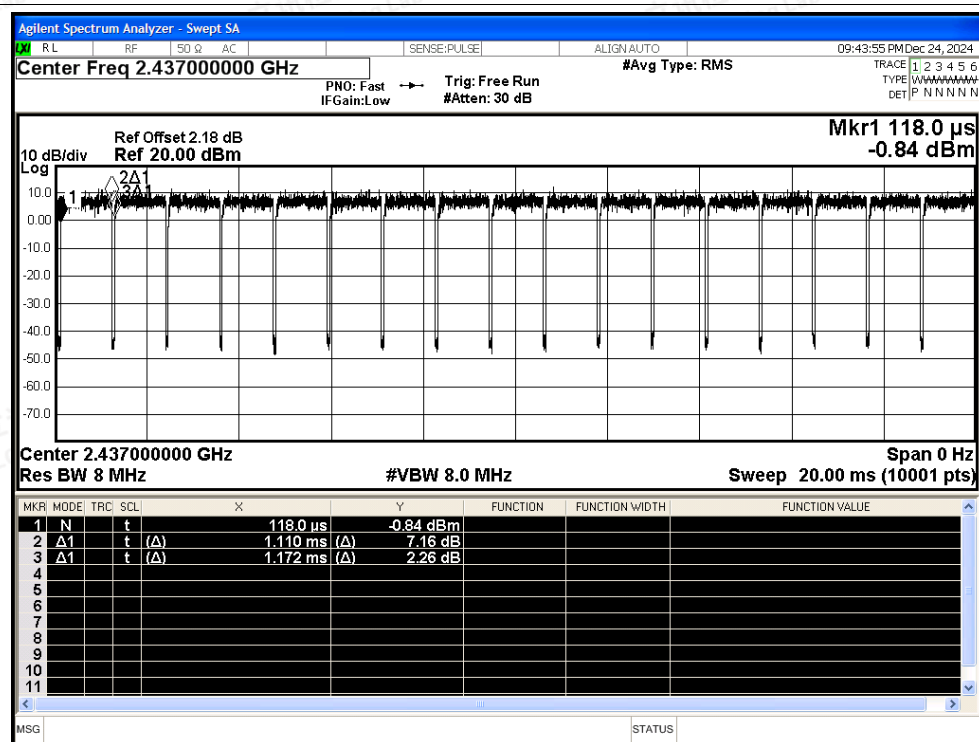


Duty Cycle NVNT n40 2422MHz Ant1

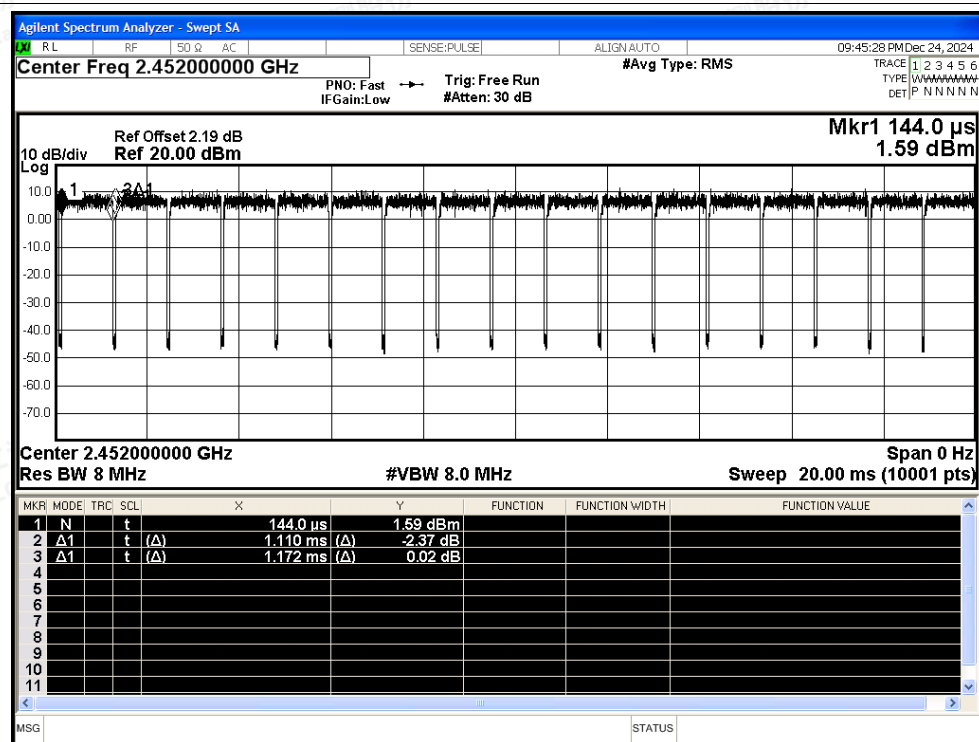




Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1





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	-49.84	5.00	-	50.42	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-58.59	5.00	0	41.67	Average	54	Pass
NVNT	b	2412	Ant1	2389.911	-46.71	5.00	-	53.55	Peak	74	Pass
NVNT	b	2412	Ant1	2389.911	-56.12	5.00	0	44.14	Average	54	Pass
NVNT	b	2412	Ant1	2390	-47.32	5.00	-	52.94	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-55.13	5.00	0	45.13	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-46.86	5.00	-	53.40	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-54.9	5.00	0	45.36	Average	54	Pass
NVNT	b	2462	Ant1	2484.259	-44.59	5.00	-	55.67	Peak	74	Pass
NVNT	b	2462	Ant1	2484.153	-53.1	5.00	0	47.16	Average	54	Pass
NVNT	b	2462	Ant1	2500	-50.46	5.00	-	49.80	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-57.74	5.00	0	42.52	Average	54	Pass
NVNT	g	2412	Ant1	2310	-50.66	5.00	-	49.60	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-58.64	5.00	0.1	41.72	Average	54	Pass
NVNT	g	2412	Ant1	2388.741	-39.4	5.00	-	60.86	Peak	74	Pass
NVNT	g	2412	Ant1	2389.677	-53.66	5.00	0.1	46.70	Average	54	Pass
NVNT	g	2412	Ant1	2390	-40.38	5.00	-	59.88	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-53.22	5.00	0.1	47.14	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-41.71	5.00	-	58.55	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-54.37	5.00	0.1	45.99	Average	54	Pass
NVNT	g	2462	Ant1	2483.994	-37.42	5.00	-	62.84	Peak	74	Pass
NVNT	g	2462	Ant1	2483.623	-53.38	5.00	0.1	46.98	Average	54	Pass
NVNT	g	2462	Ant1	2500	-50.34	5.00	-	49.92	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-57.92	5.00	0.1	42.44	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-50.09	5.00	-	50.17	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-58.72	5.00	0.12	41.66	Average	54	Pass
NVNT	n20	2412	Ant1	2389.443	-36.25	5.00	-	64.01	Peak	74	Pass
NVNT	n20	2412	Ant1	2389.794	-51.98	5.00	0.12	48.40	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-39.35	5.00	-	60.91	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-52.11	5.00	0.12	48.27	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-37.03	5.00	-	63.23	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-54.21	5.00	0.12	46.17	Average	54	Pass
NVNT	n20	2462	Ant1	2484.153	-34.94	5.00	-	65.32	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.623	-52.19	5.00	0.12	48.19	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-49.03	5.00	-	51.23	Peak	74	Pass
NVNT	n20	2462	Ant1	2500	-58.34	5.00	0.12	42.04	Average	54	Pass



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NVNT	n40	2422	Ant1	2310	-51.54	5.00	-	48.72	Peak	74	Pass
NVNT	n40	2422	Ant1	2310	-58.53	5.00	0.24	41.97	Average	54	Pass
NVNT	n40	2422	Ant1	2389.804	-37.9	5.00	-	62.36	Peak	74	Pass
NVNT	n40	2422	Ant1	2389.804	-52.89	5.00	0.24	47.61	Average	54	Pass
NVNT	n40	2422	Ant1	2390	-38.16	5.00	-	62.10	Peak	74	Pass
NVNT	n40	2422	Ant1	2390	-54	5.00	0.24	46.50	Average	54	Pass
NVNT	n40	2452	Ant1	2483.5	-40.68	5.00	-	59.58	Peak	74	Pass
NVNT	n40	2452	Ant1	2483.5	-51.71	5.00	0.24	48.79	Average	54	Pass
NVNT	n40	2452	Ant1	2483.776	-35.59	5.00	-	64.67	Peak	74	Pass
NVNT	n40	2452	Ant1	2483.542	-50.94	5.00	0.24	49.56	Average	54	Pass
NVNT	n40	2452	Ant1	2500	-48.06	5.00	-	52.20	Peak	74	Pass
NVNT	n40	2452	Ant1	2500	-58.48	5.00	0.24	41.78	Average	54	Pass

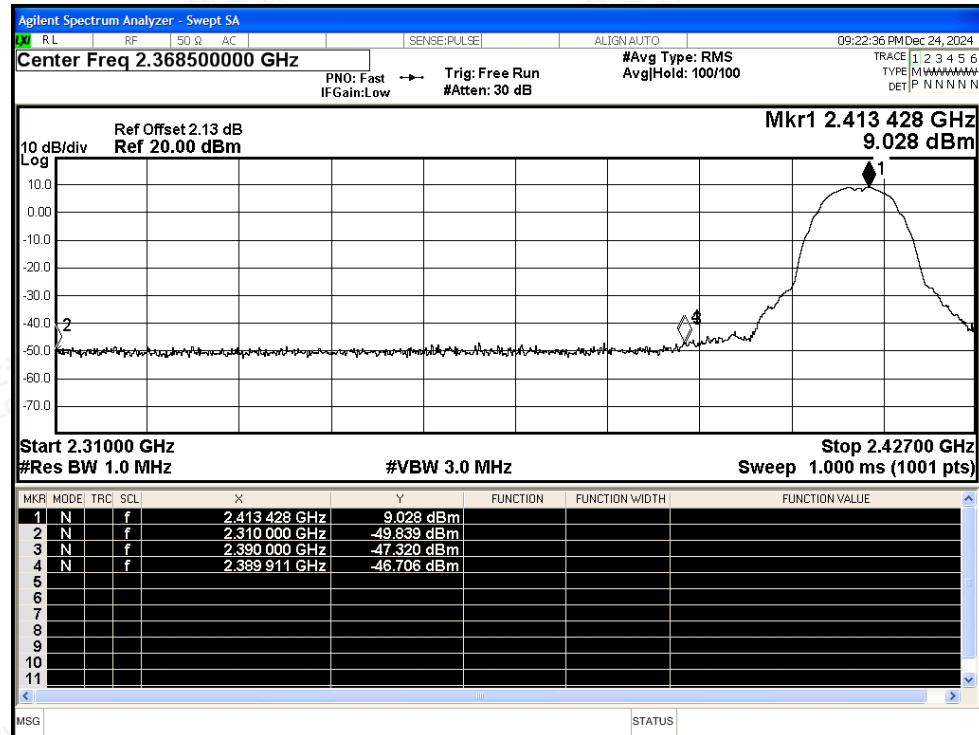


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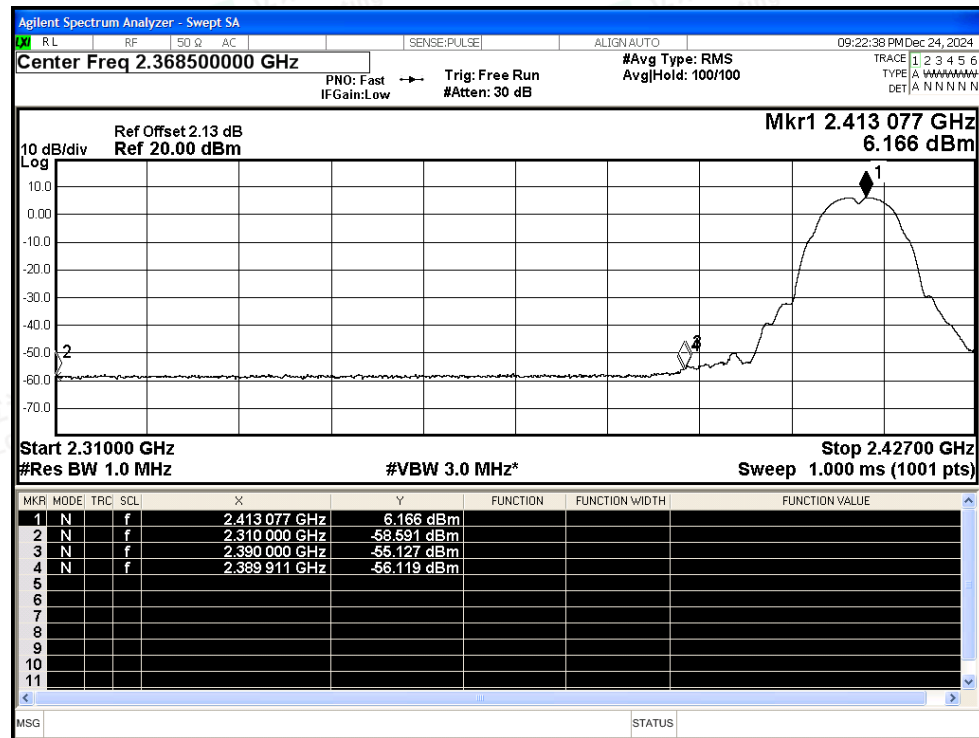


Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average



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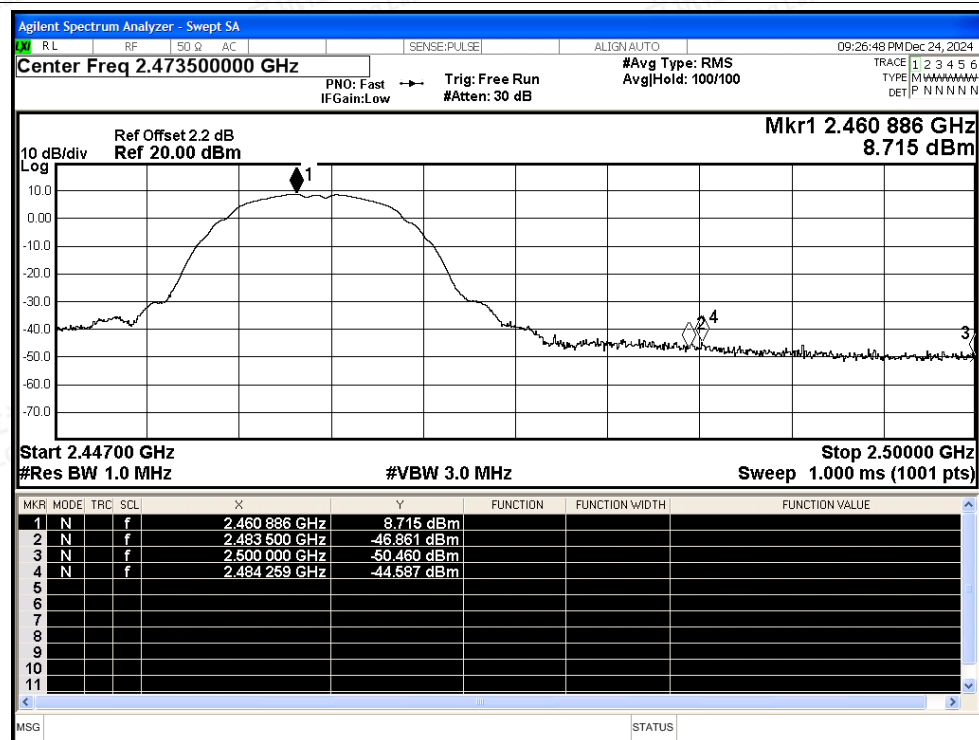
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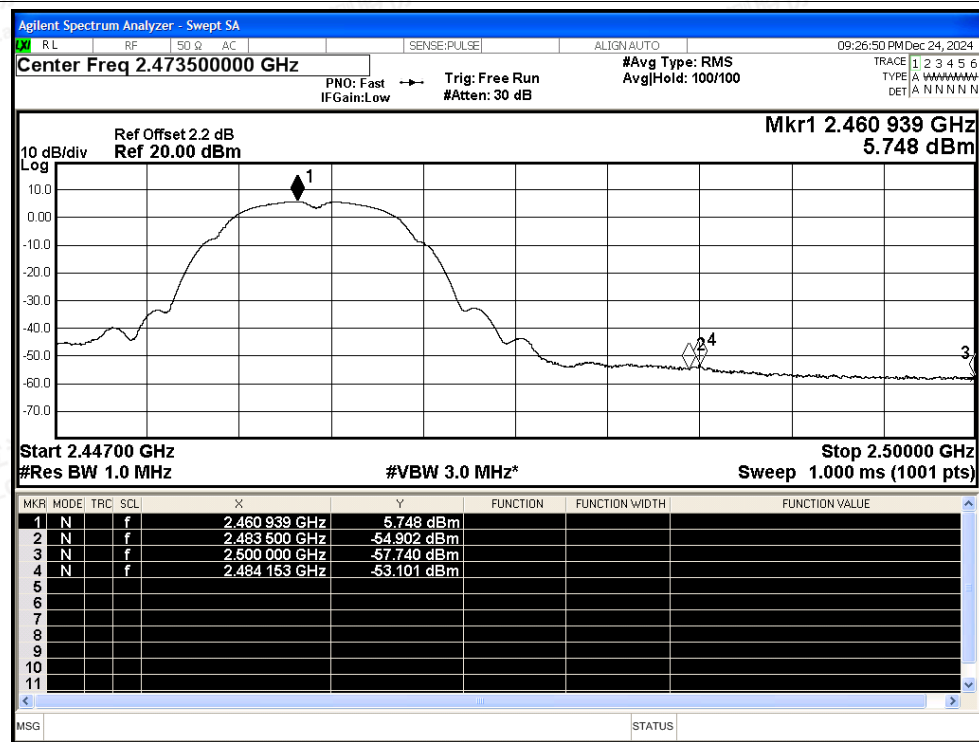
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Restrict Band NVNT b 2462MHz Ant1 Peak



Restrict Band NVNT b 2462MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

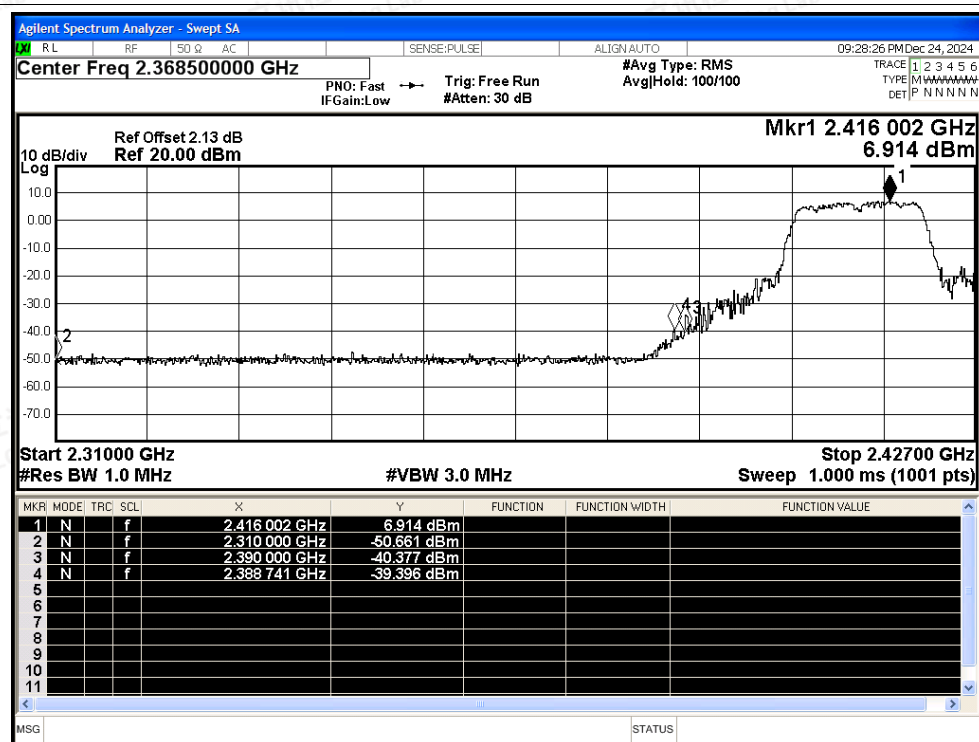
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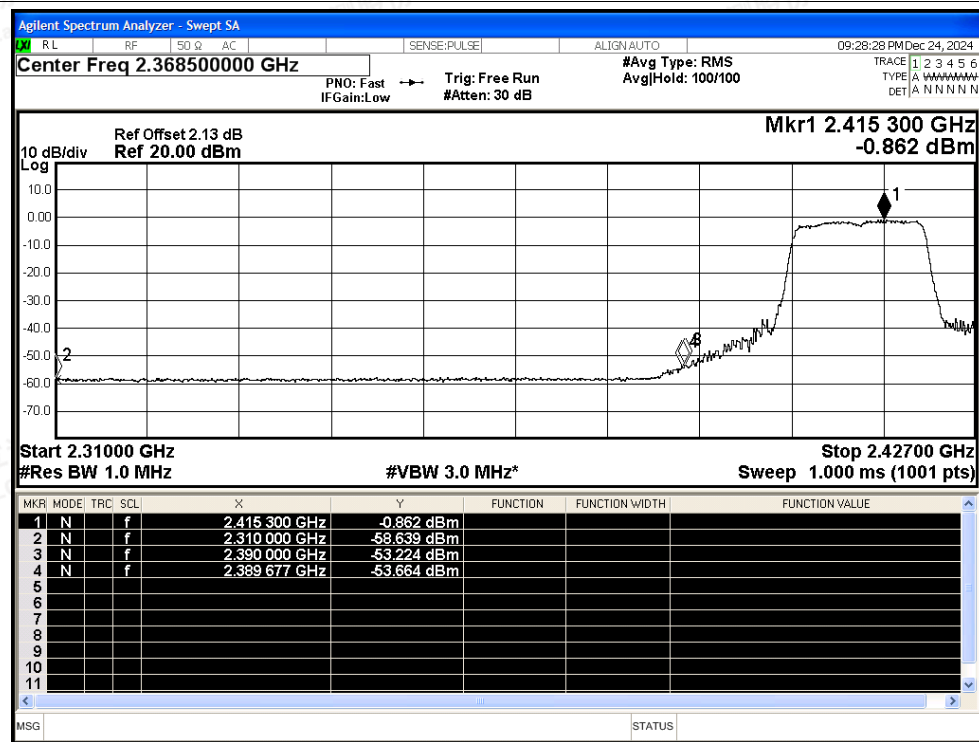
Scan code to check authenticity



Restrict Band NVNT g 2412MHz Ant1 Peak

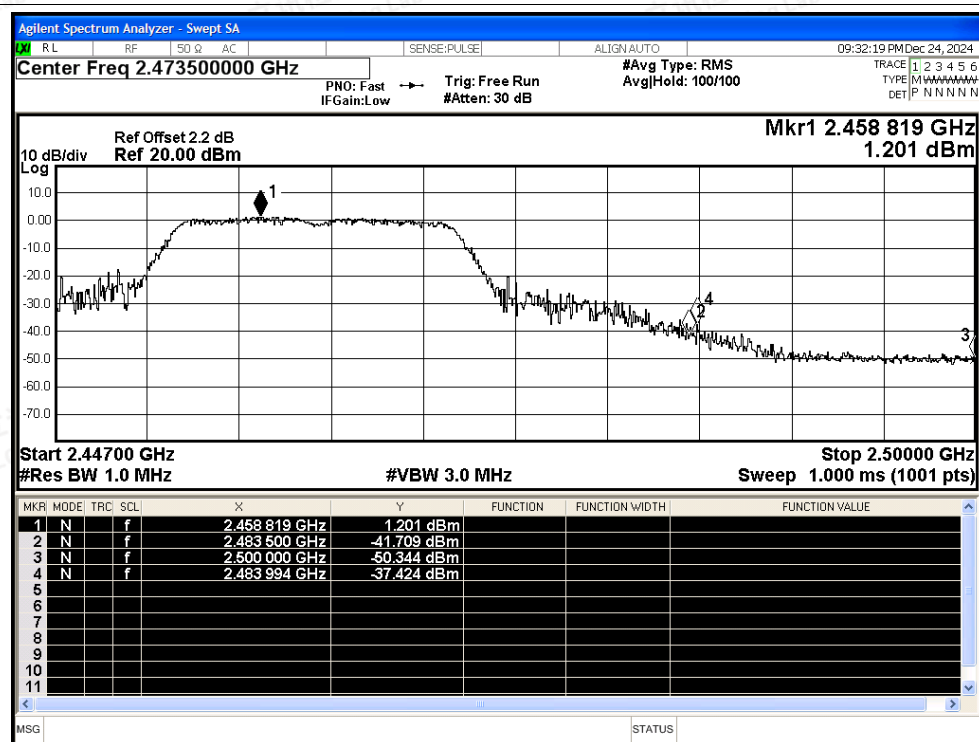


Restrict Band NVNT g 2412MHz Ant1 Average

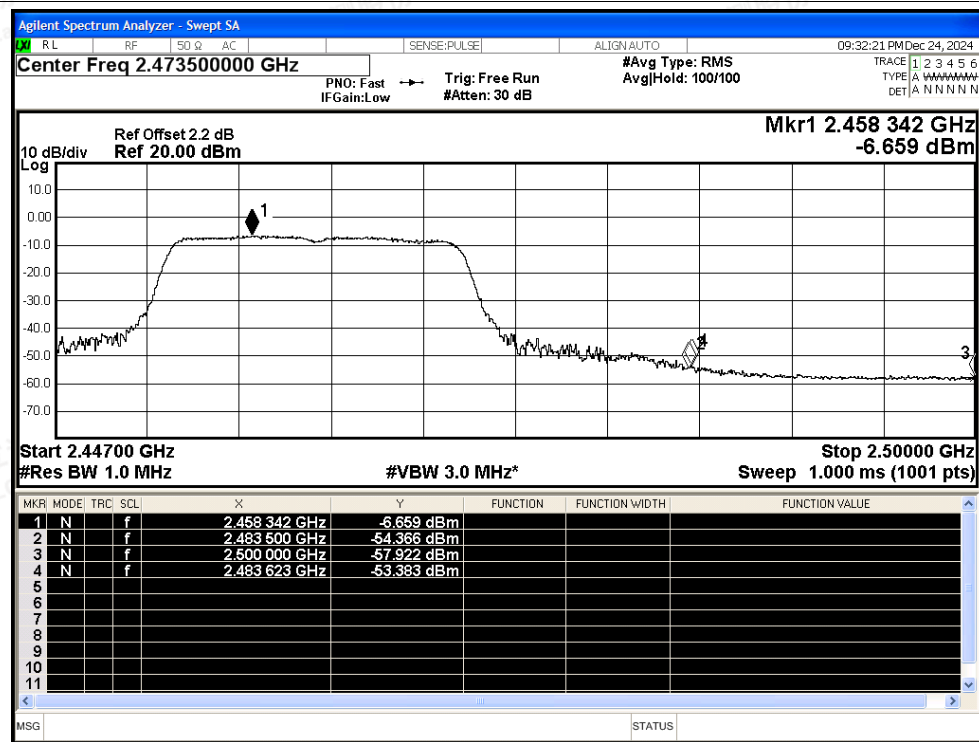




Restrict Band NVNT g 2462MHz Ant1 Peak

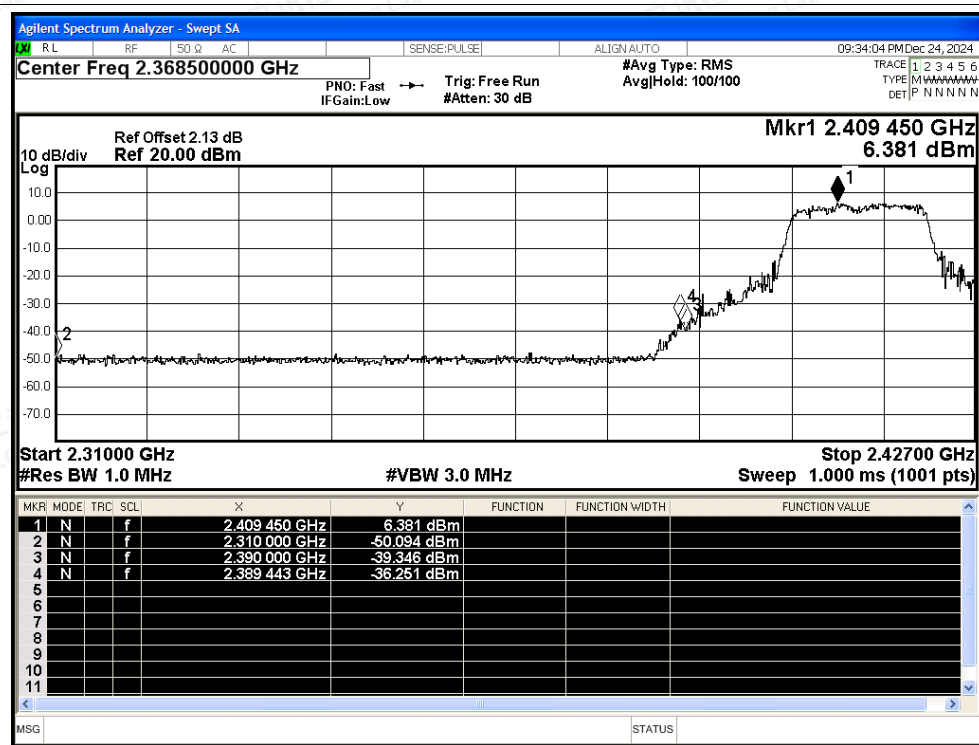


Restrict Band NVNT g 2462MHz Ant1 Average

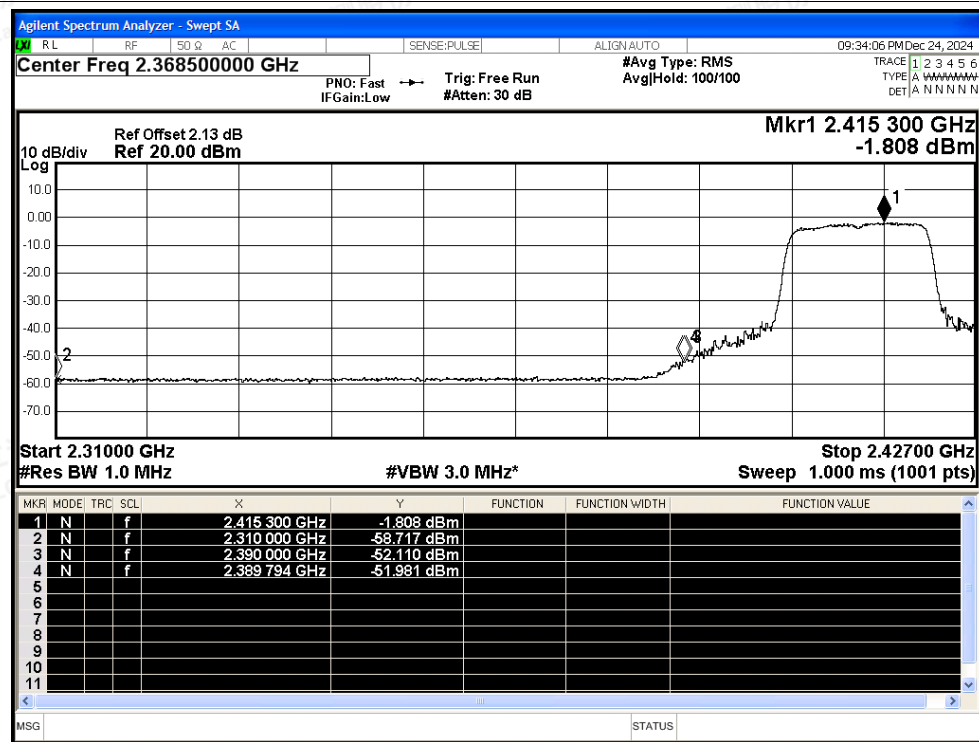




Restrict Band NVNT n20 2412MHz Ant1 Peak

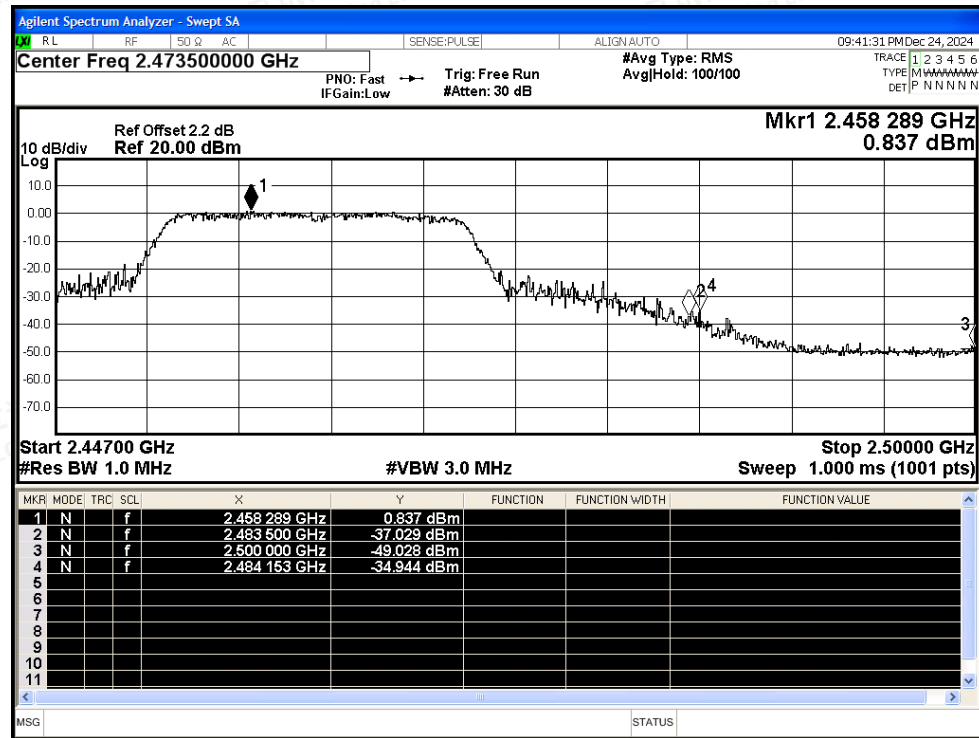


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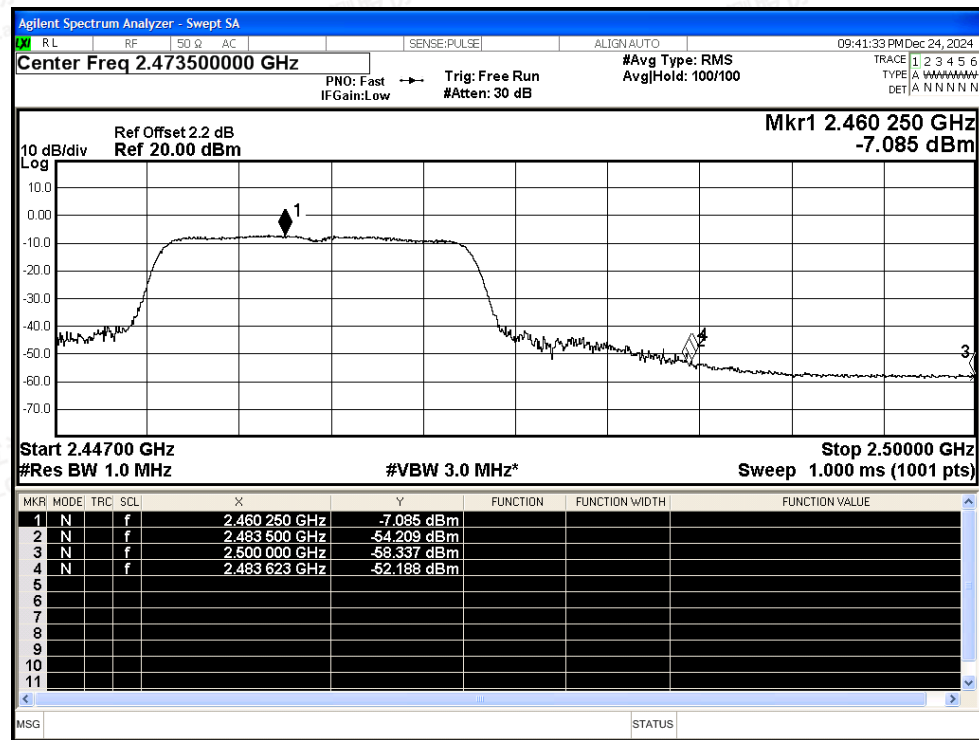




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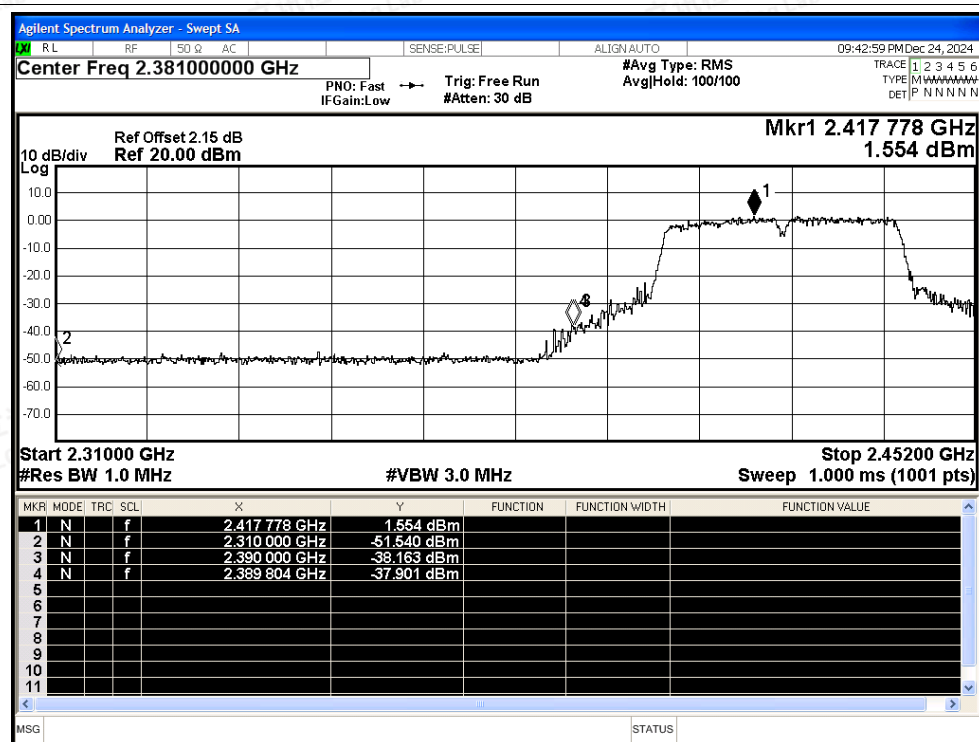


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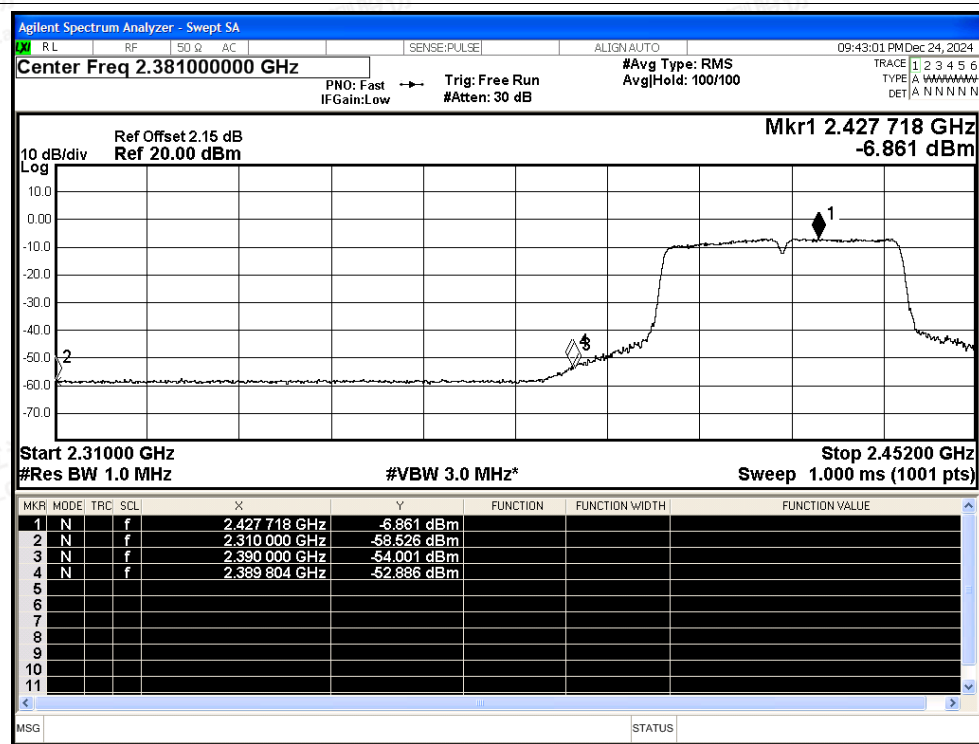




Restrict Band NVNT n40 2422MHz Ant1 Peak



Restrict Band NVNT n40 2422MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

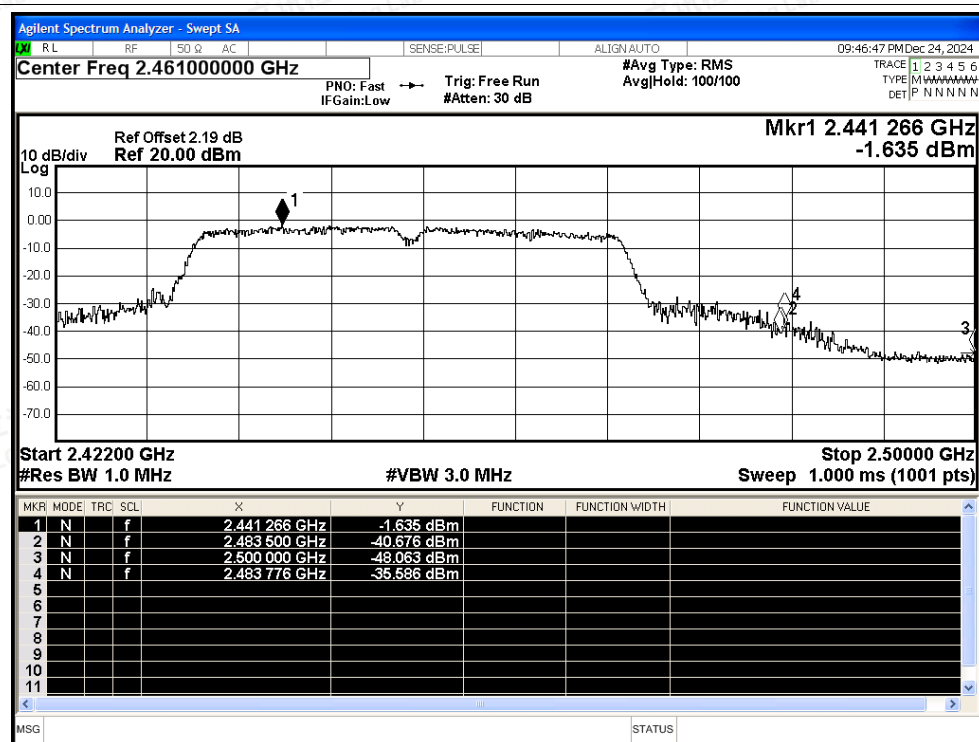
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park,
Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

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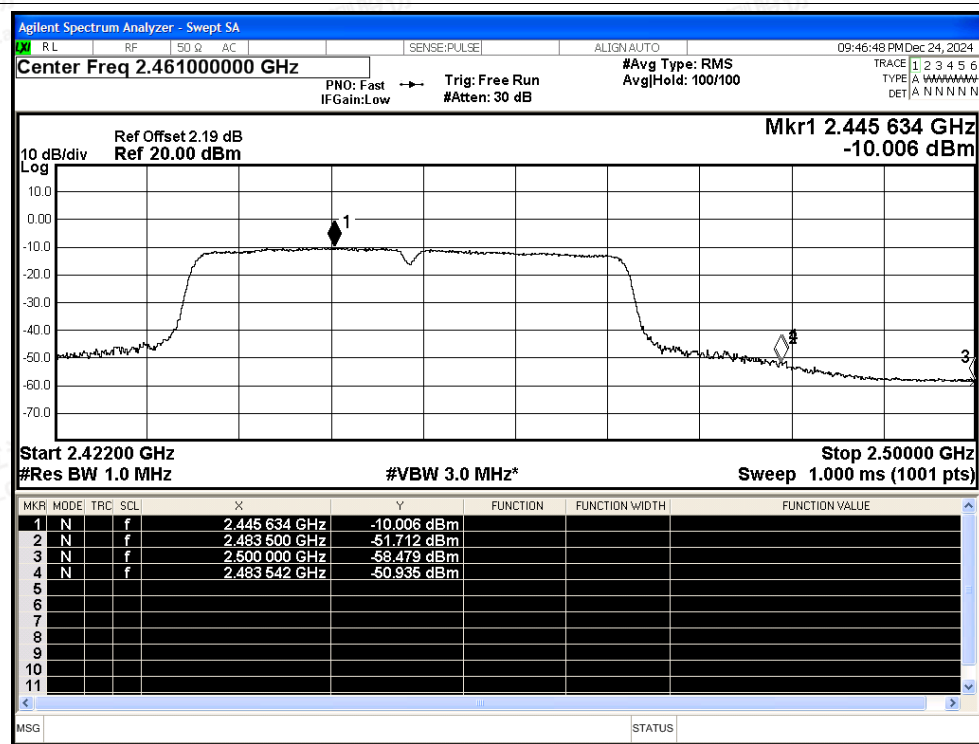
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Restrict Band NVNT n40 2452MHz Ant1 Peak



Restrict Band NVNT n40 2452MHz Ant1 Average



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