



Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Dive computer DW223

Test Model: DW223

Environmental Conditions

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



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B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.008	>=0.5	Pass
NVNT	b	2437	Ant1	7.879	>=0.5	Pass
NVNT	b	2462	Ant1	8.996	>=0.5	Pass
NVNT	g	2412	Ant1	14.383	>=0.5	Pass
NVNT	g	2437	Ant1	15.058	>=0.5	Pass
NVNT	g	2462	Ant1	15.487	>=0.5	Pass
NVNT	n20	2412	Ant1	17.427	>=0.5	Pass
NVNT	n20	2437	Ant1	14.086	>=0.5	Pass
NVNT	n20	2462	Ant1	14.152	>=0.5	Pass





Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



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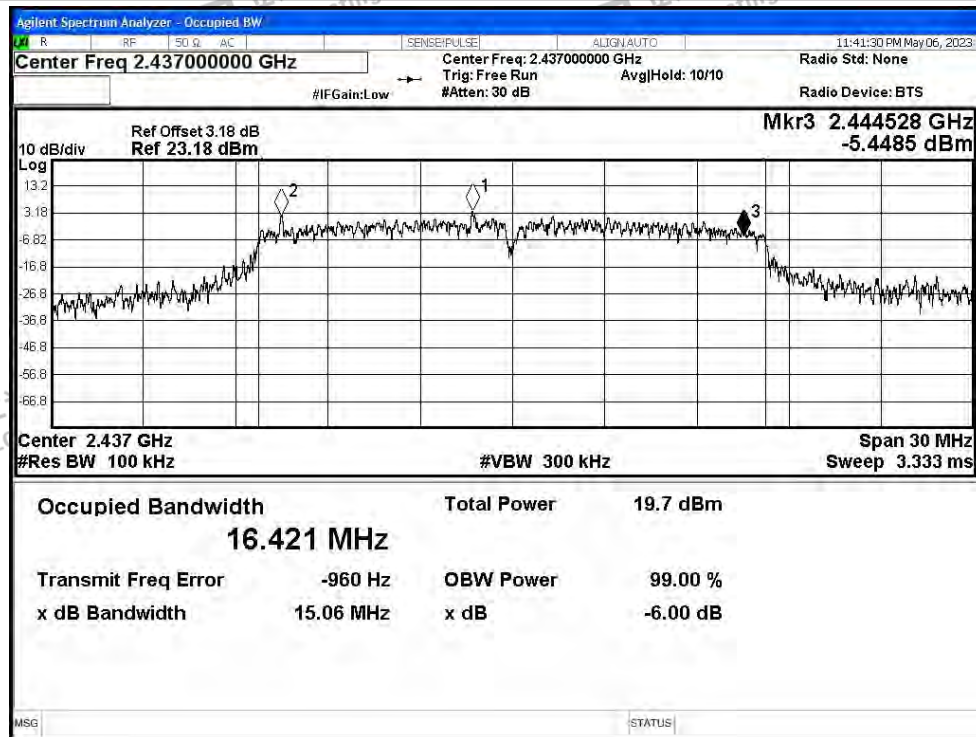
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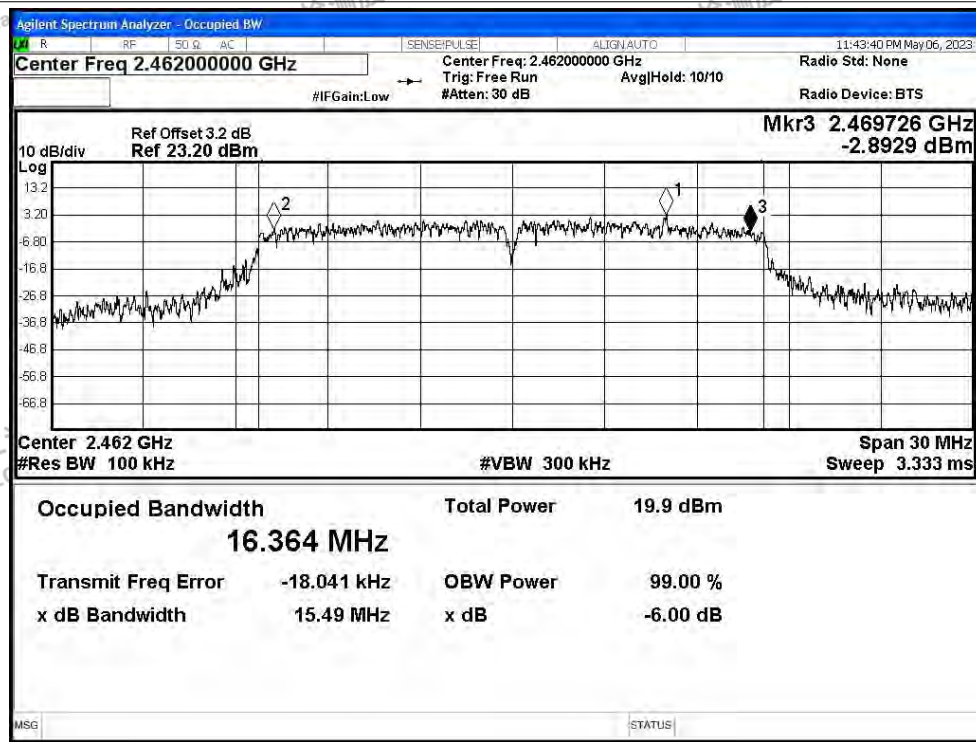
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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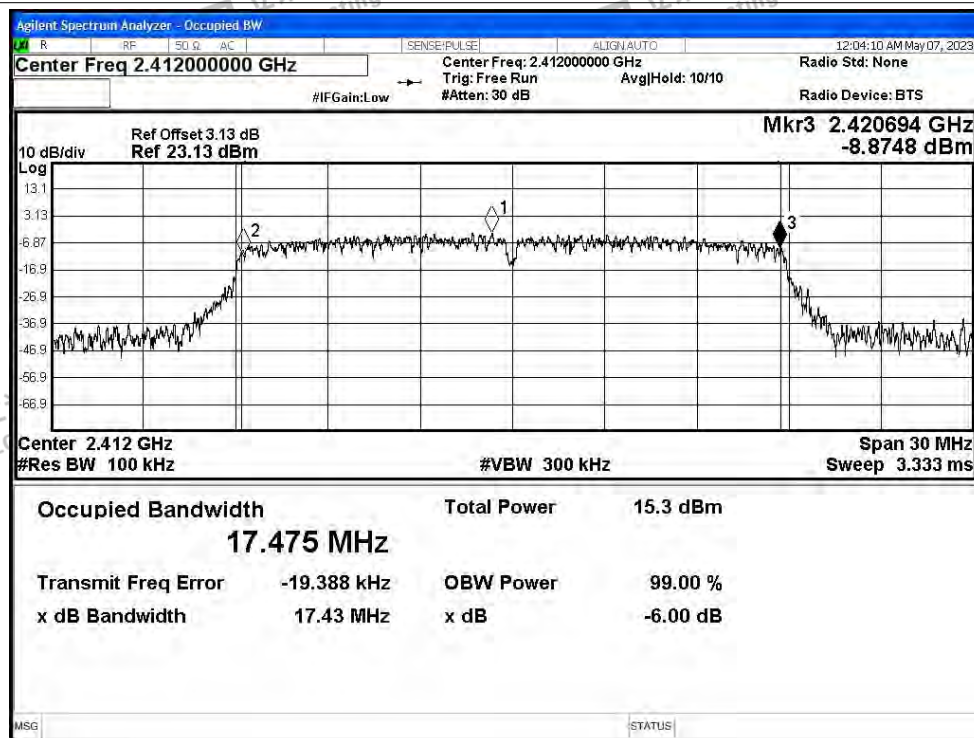
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-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1

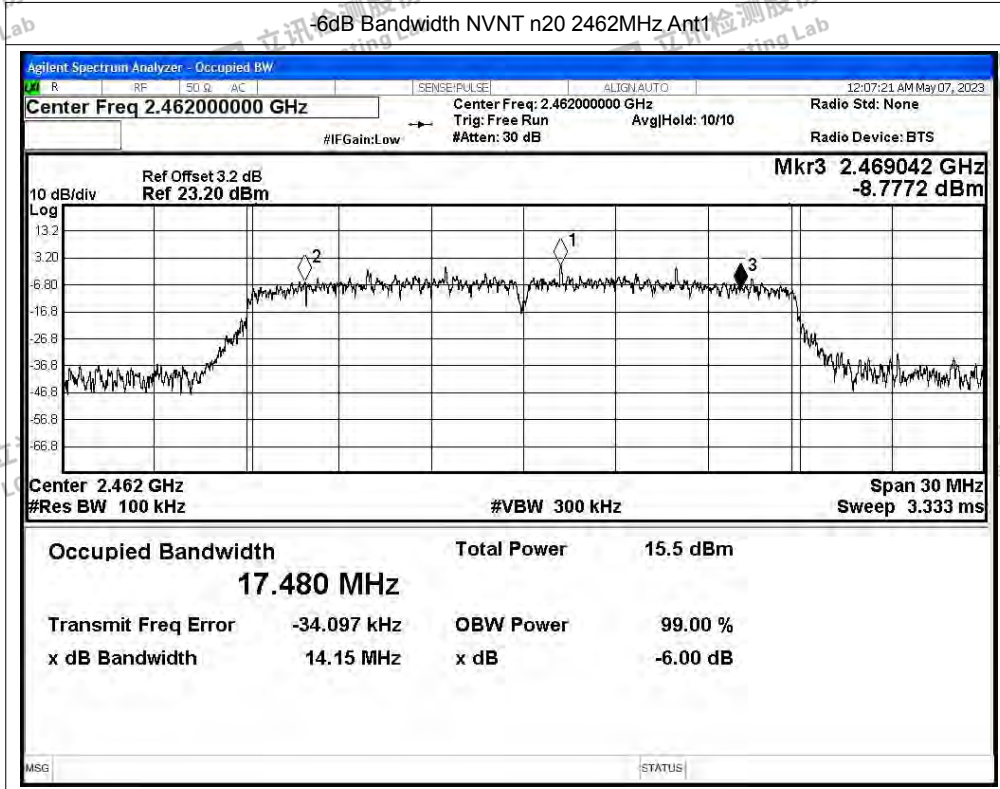


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B.2 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.607
NVNT	b	2437	Ant1	13.896
NVNT	b	2462	Ant1	13.595
NVNT	g	2412	Ant1	16.392
NVNT	g	2437	Ant1	16.503
NVNT	g	2462	Ant1	16.439
NVNT	n20	2412	Ant1	17.497
NVNT	n20	2437	Ant1	17.477
NVNT	n20	2462	Ant1	17.49



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Test Graphs

OBW NVNT b 2412MHz Ant1



OBW NVNT b 2437MHz Ant1



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OBW NVNT b 2462MHz Ant1



OBW NVNT g 2412MHz Ant1



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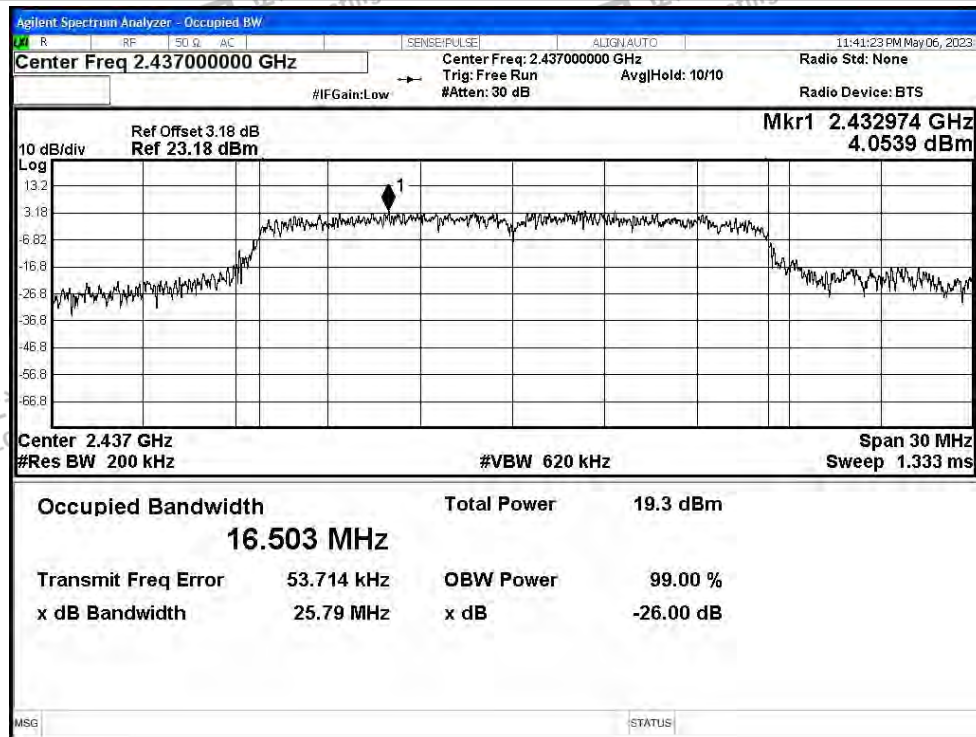
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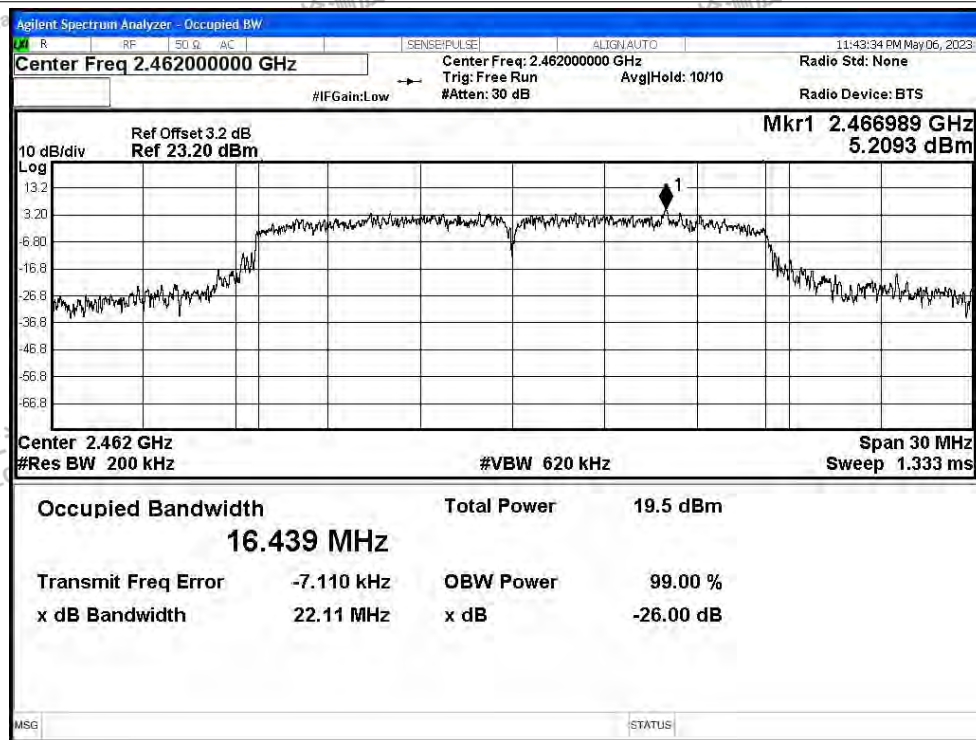
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OBW NVNT g 2437MHz Ant1



OBW NVNT g 2462MHz Ant1



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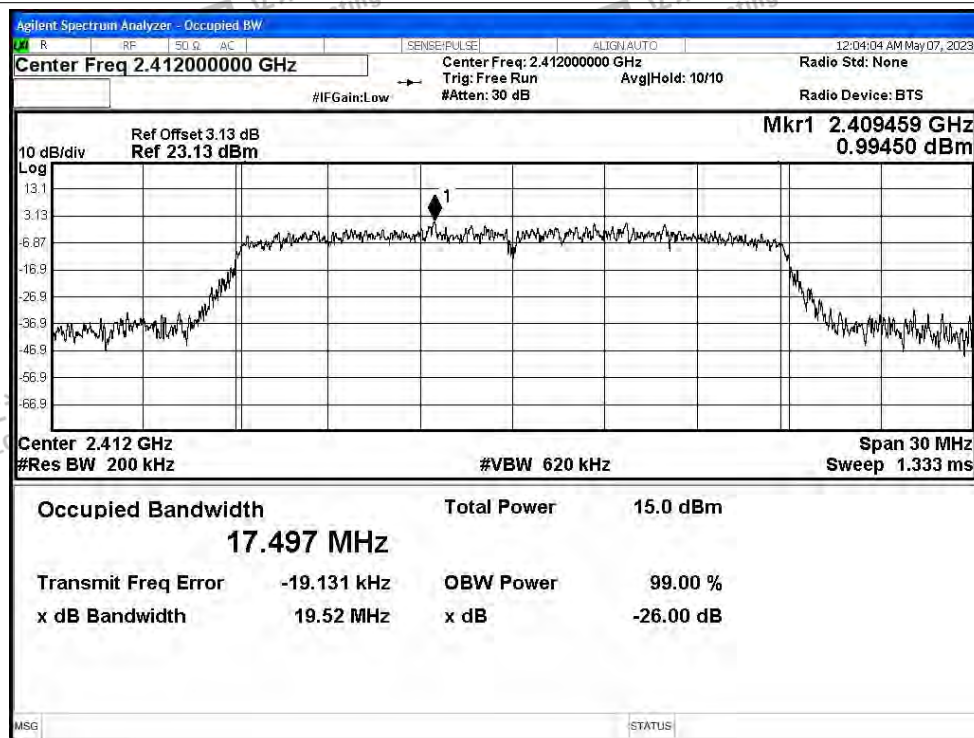
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OBW.NVNT n20 2412MHz Ant1



OBW.NVNT n20 2437MHz Ant1

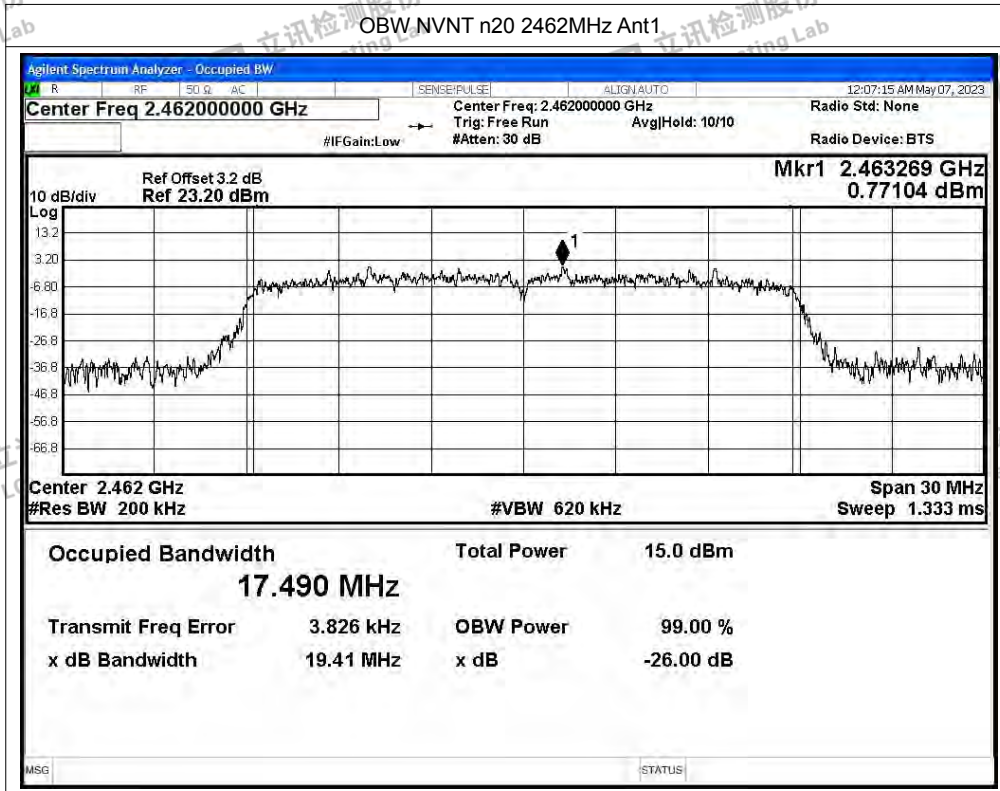


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B.3 Maximum Conducted Output Power and e.i.r.p.

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Antenna Gain	Report EIRP Power(dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	12.82	30	-4.1	8.72	36	Pass
NVNT	b	2437	Ant1	12.96	30	-4.1	8.86	36	Pass
NVNT	b	2462	Ant1	13.09	30	-4.1	8.99	36	Pass
NVNT	g	2412	Ant1	14.23	30	-4.1	10.13	36	Pass
NVNT	g	2437	Ant1	14.24	30	-4.1	10.14	36	Pass
NVNT	g	2462	Ant1	14.34	30	-4.1	10.24	36	Pass
NVNT	n20	2412	Ant1	14.02	30	-4.1	9.92	36	Pass
NVNT	n20	2437	Ant1	14.25	30	-4.1	10.15	36	Pass
NVNT	n20	2462	Ant1	15.88	30	-4.1	11.78	36	Pass



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B.4 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-5.86	8	Pass
NVNT	b	2437	Ant1	-2.11	8	Pass
NVNT	b	2462	Ant1	-5.45	8	Pass
NVNT	g	2412	Ant1	-9.76	8	Pass
NVNT	g	2437	Ant1	-9.57	8	Pass
NVNT	g	2462	Ant1	-9.77	8	Pass
NVNT	n20	2412	Ant1	-15.06	8	Pass
NVNT	n20	2437	Ant1	-13.32	8	Pass
NVNT	n20	2462	Ant1	-13.73	8	Pass



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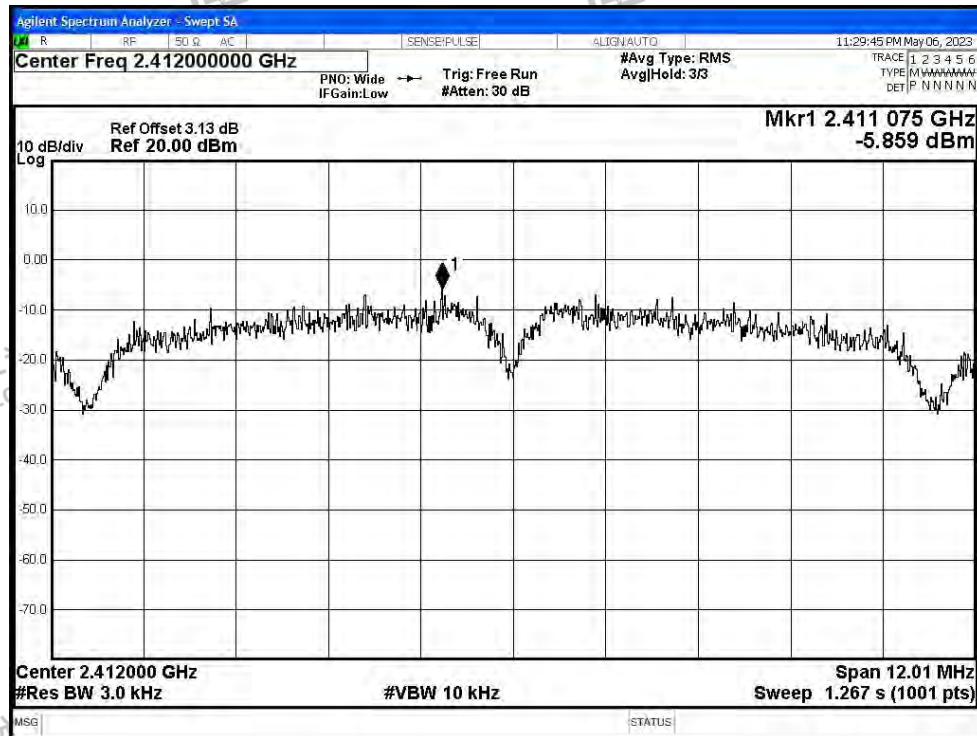
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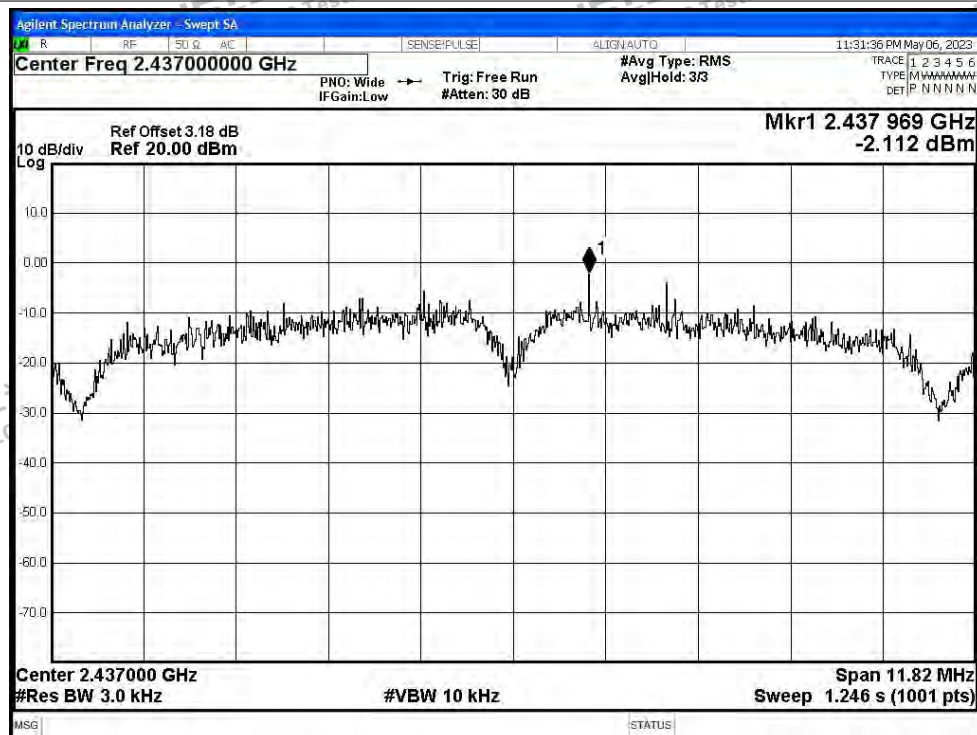


Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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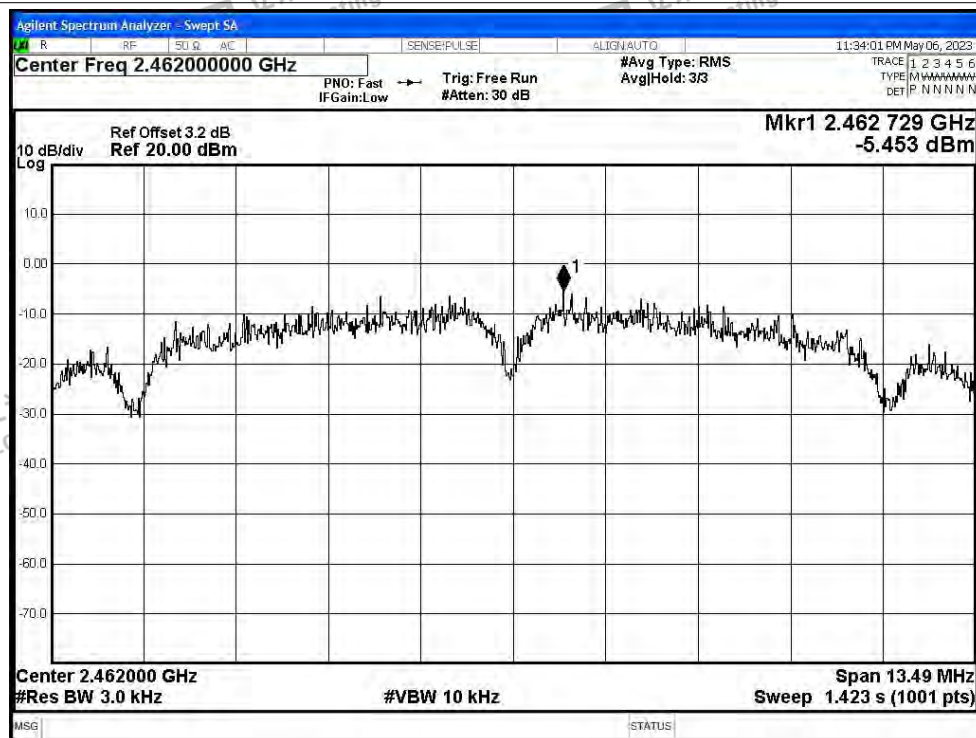
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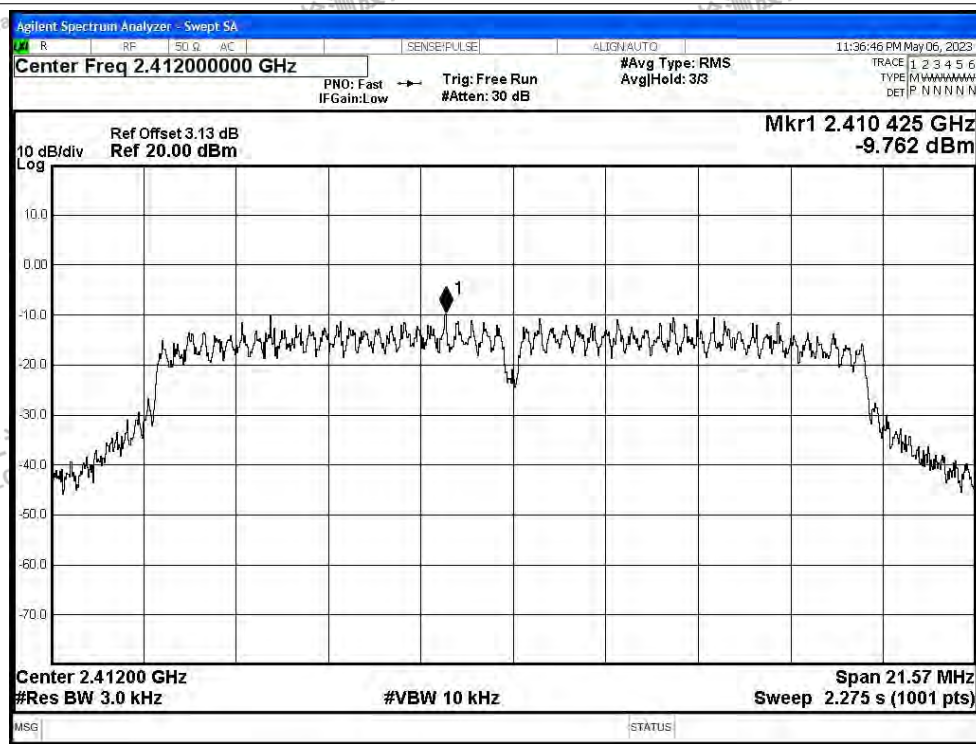
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



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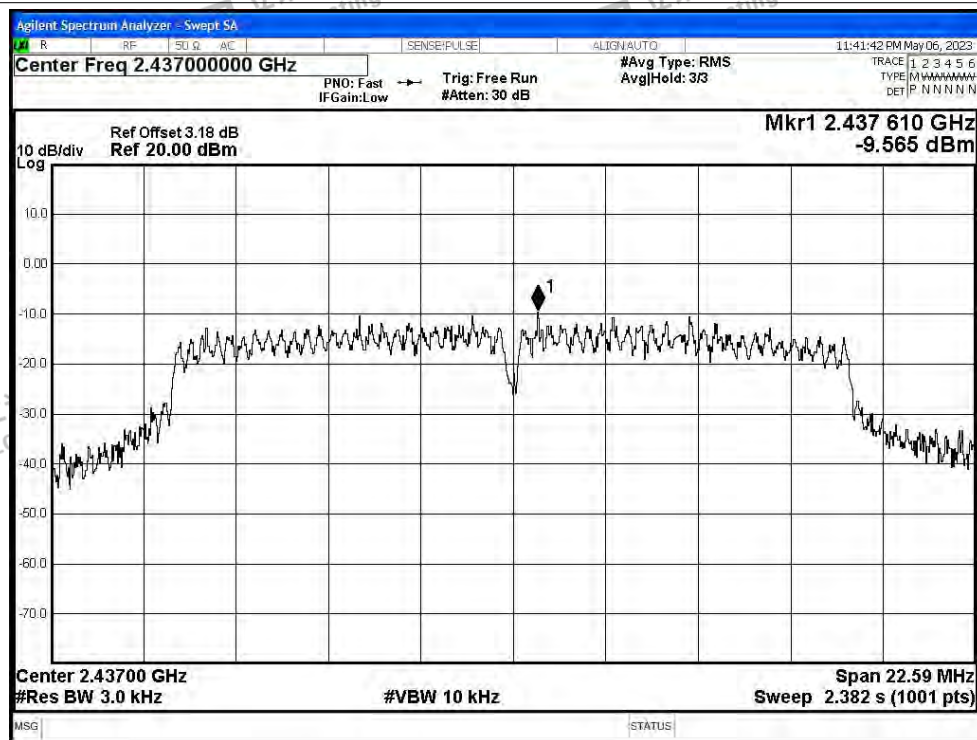
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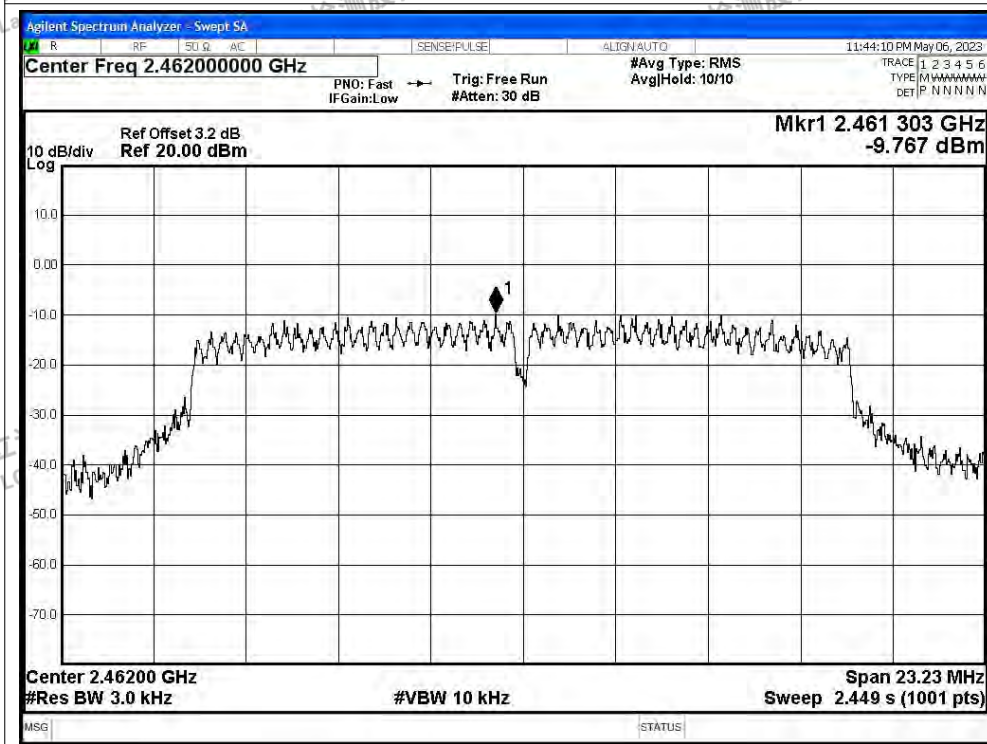
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1



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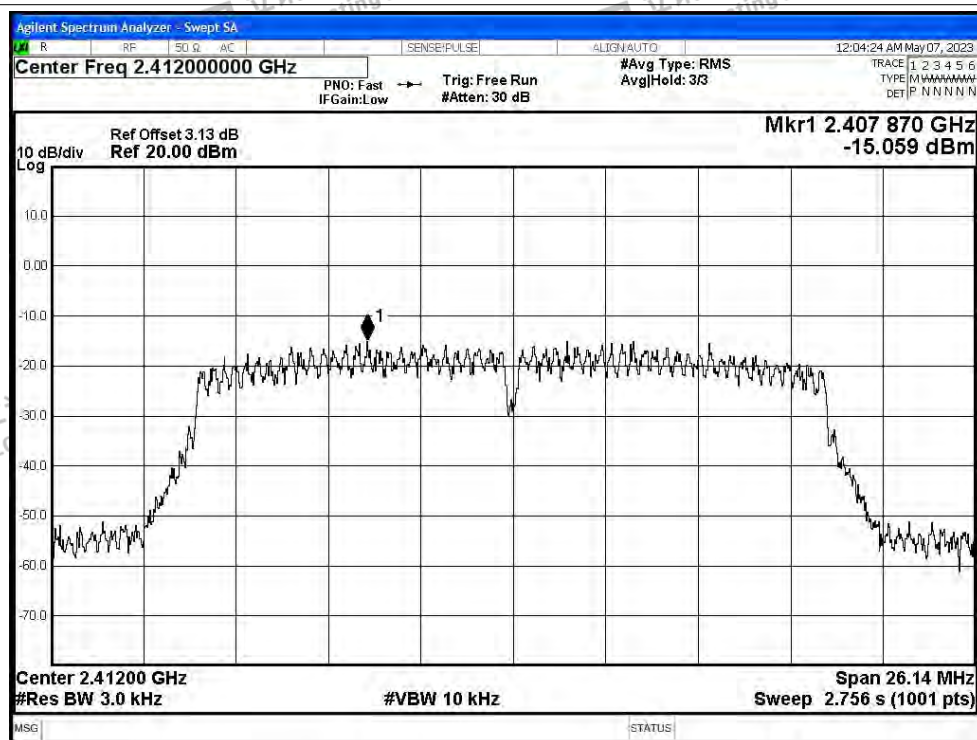
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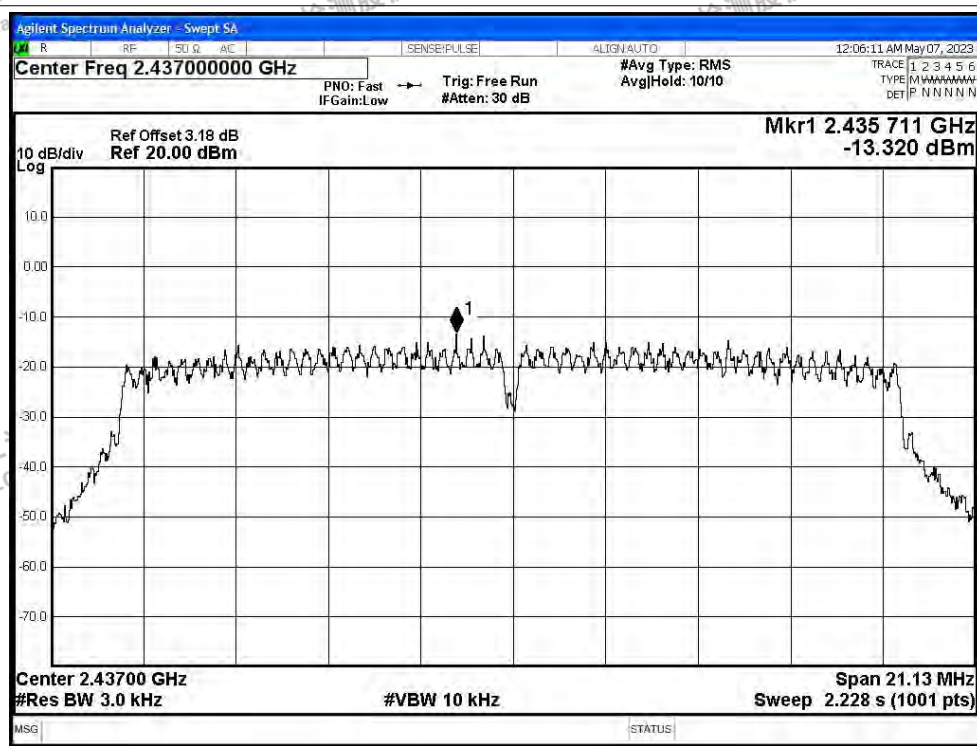
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PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1

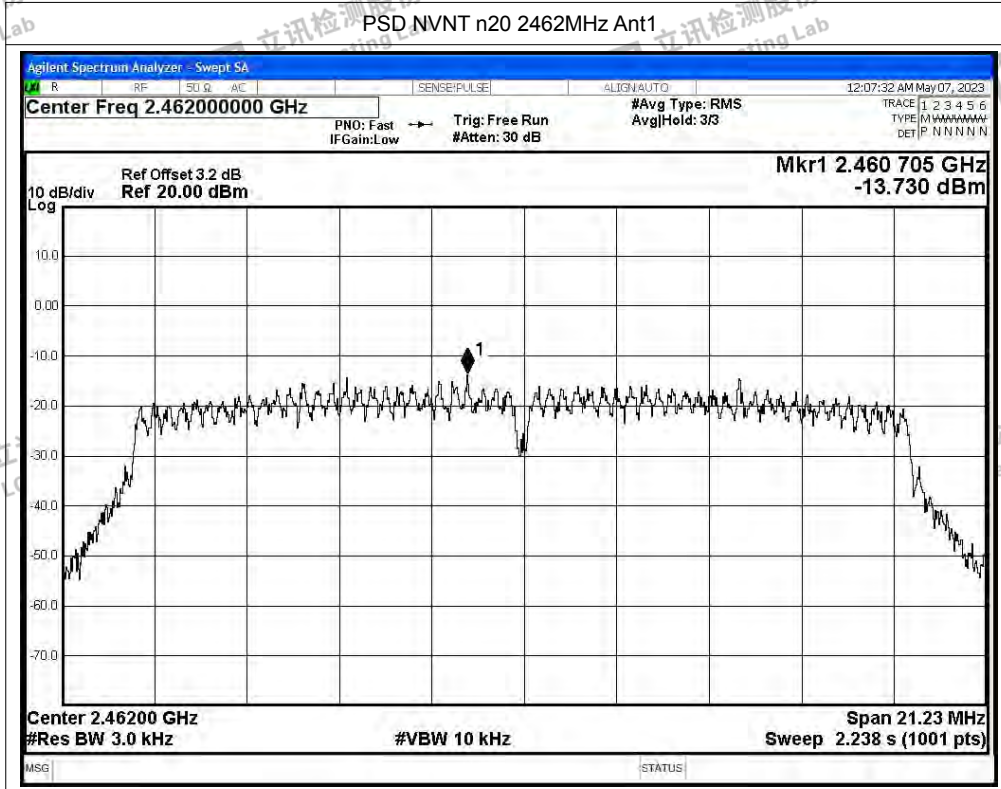


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B.5 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-49.13	-20	Pass
NVNT	b	2462	Ant1	-59.33	-20	Pass
NVNT	g	2412	Ant1	-30.91	-20	Pass
NVNT	g	2462	Ant1	-42.84	-20	Pass
NVNT	n20	2412	Ant1	-36.89	-20	Pass
NVNT	n20	2462	Ant1	-46.54	-20	Pass

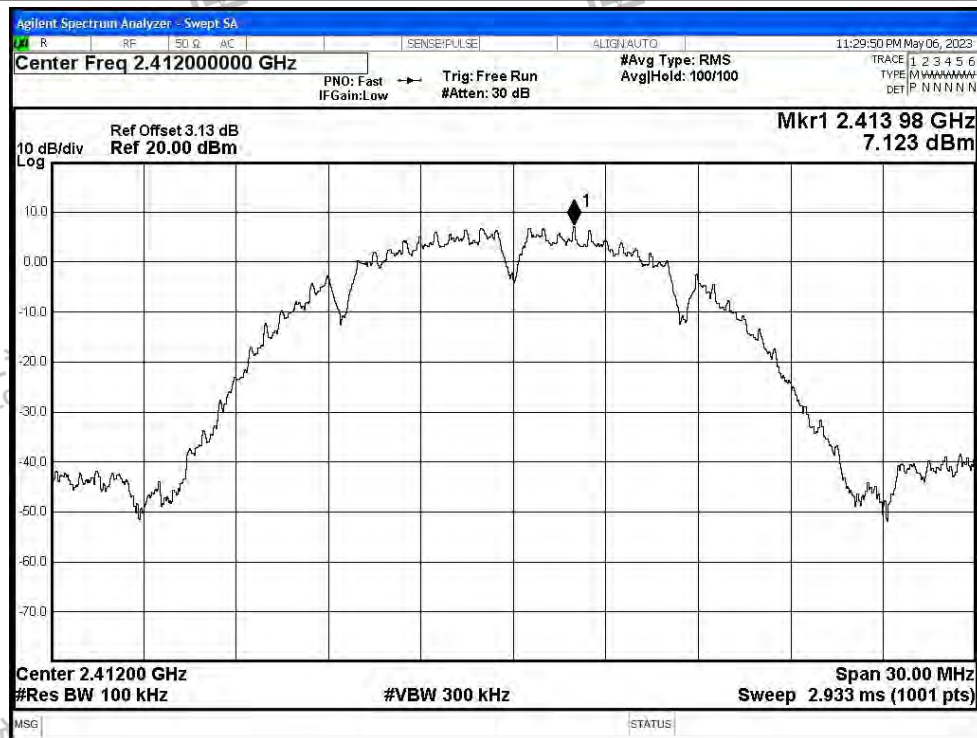


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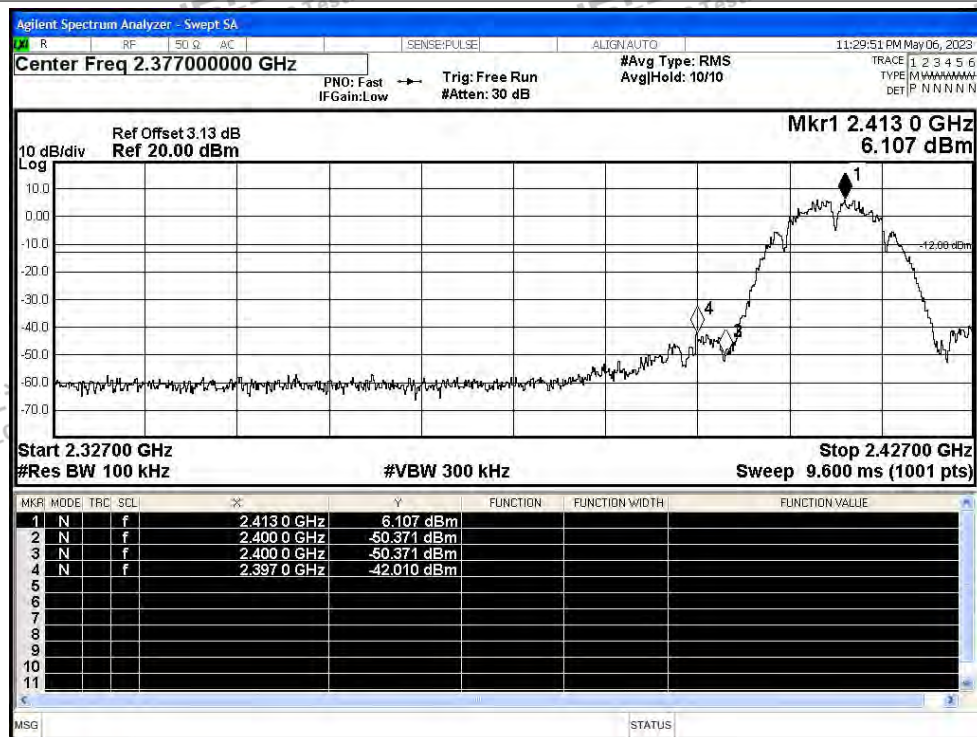


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



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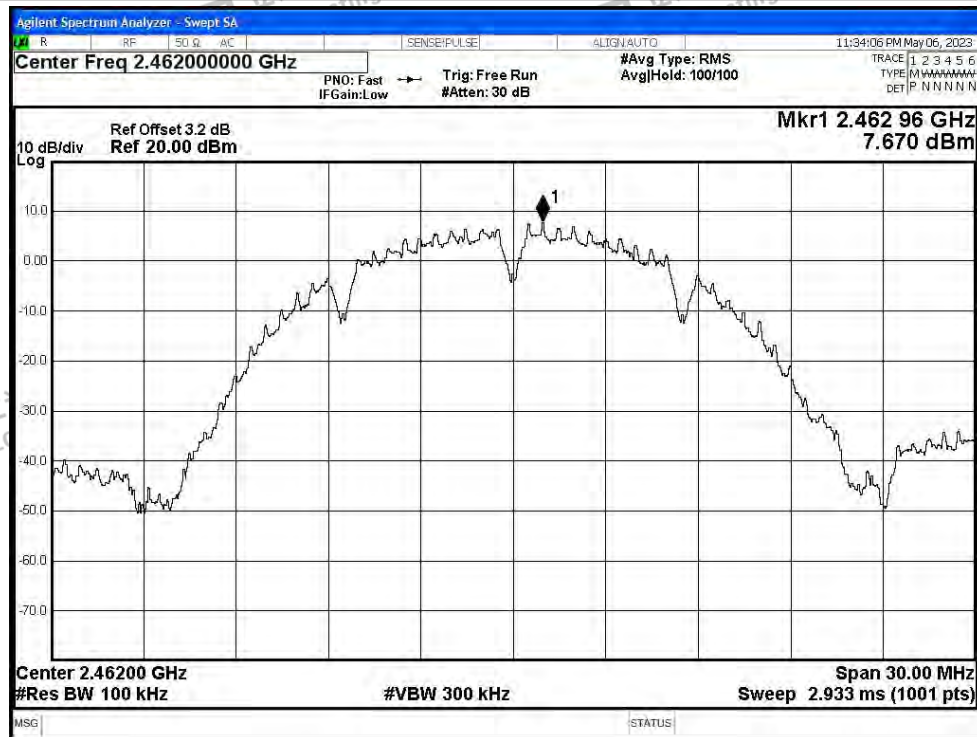
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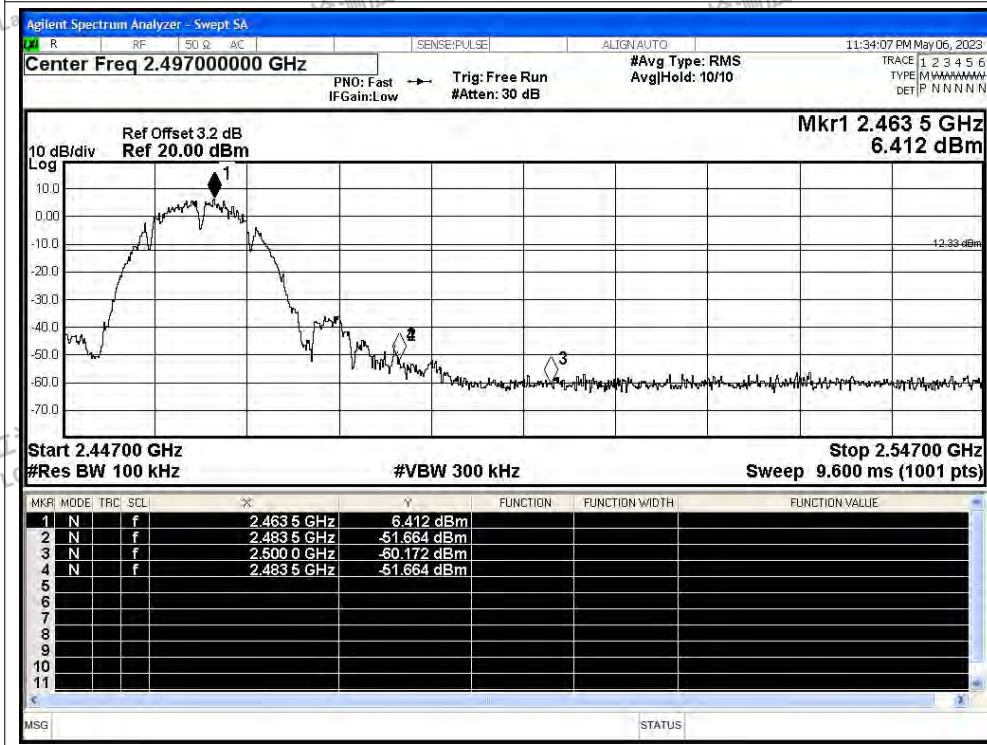
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Band Edge NVNT b 2462MHz Ant1 Emission



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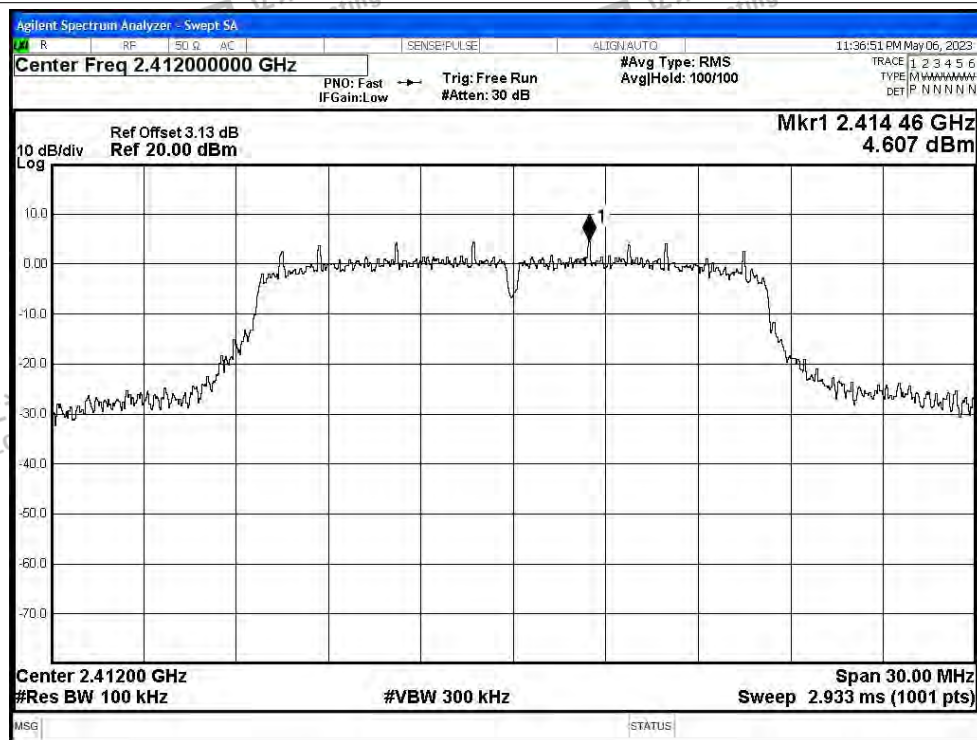
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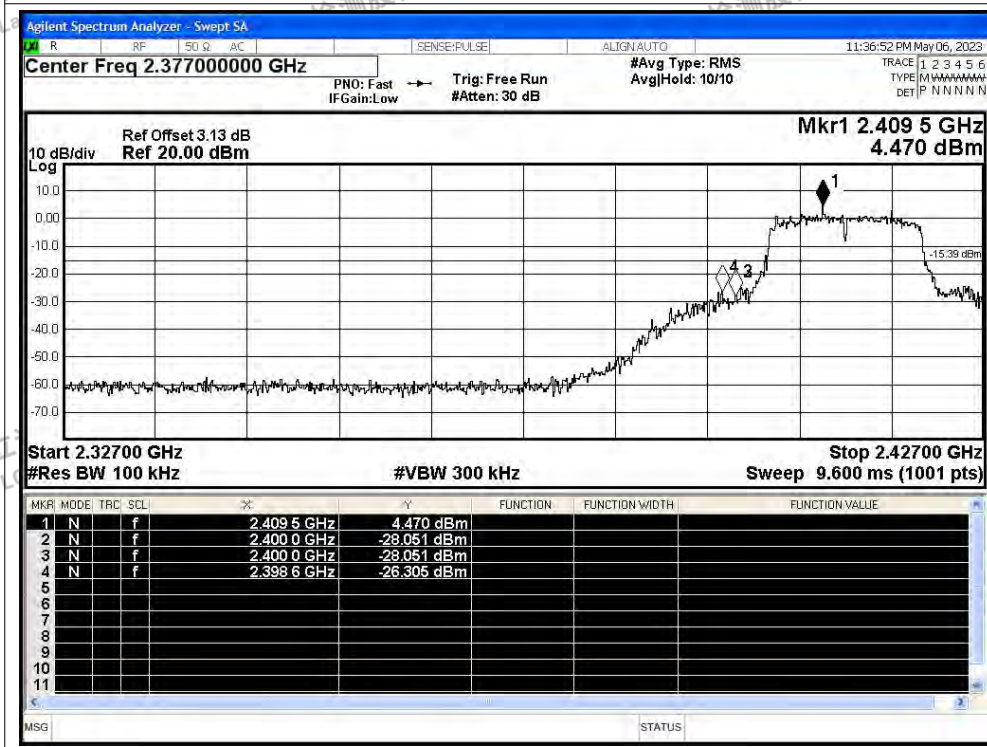
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Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



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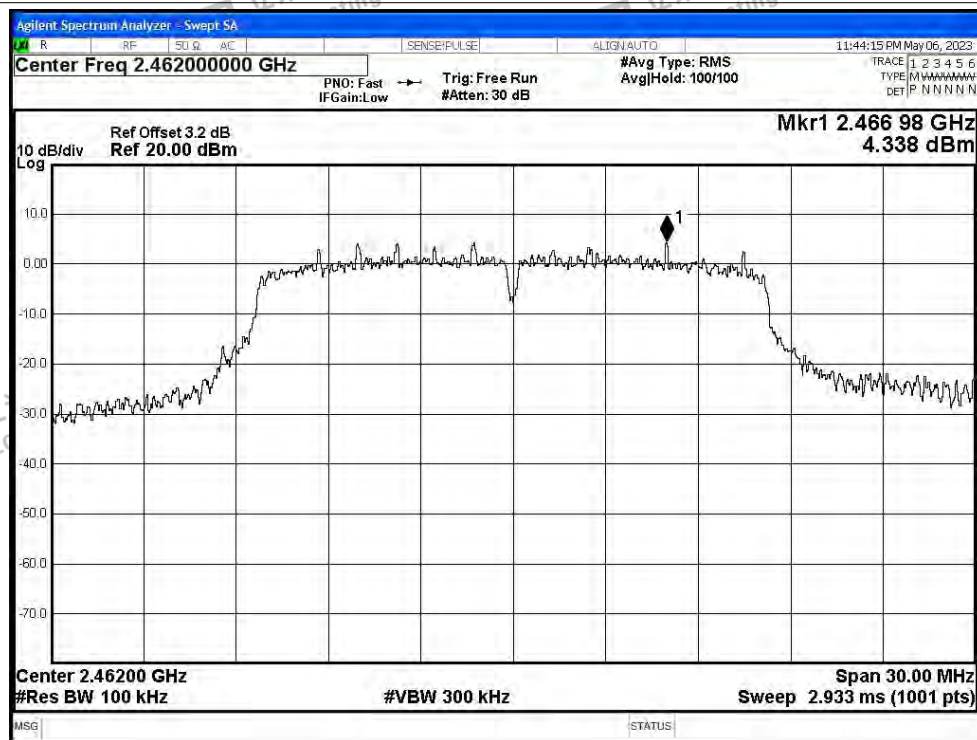
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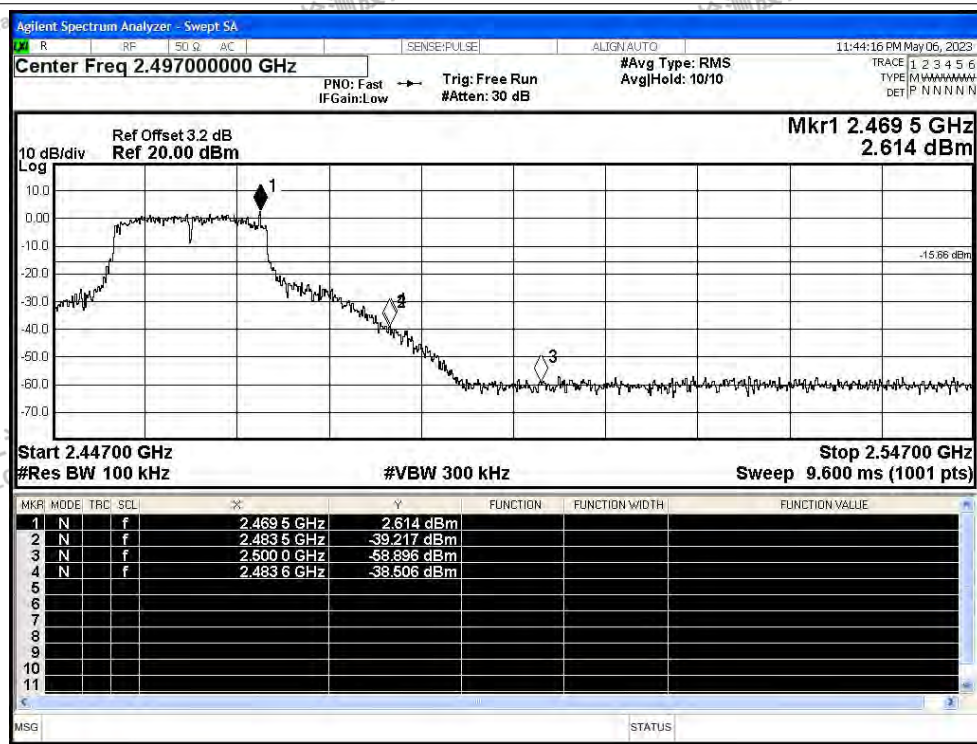
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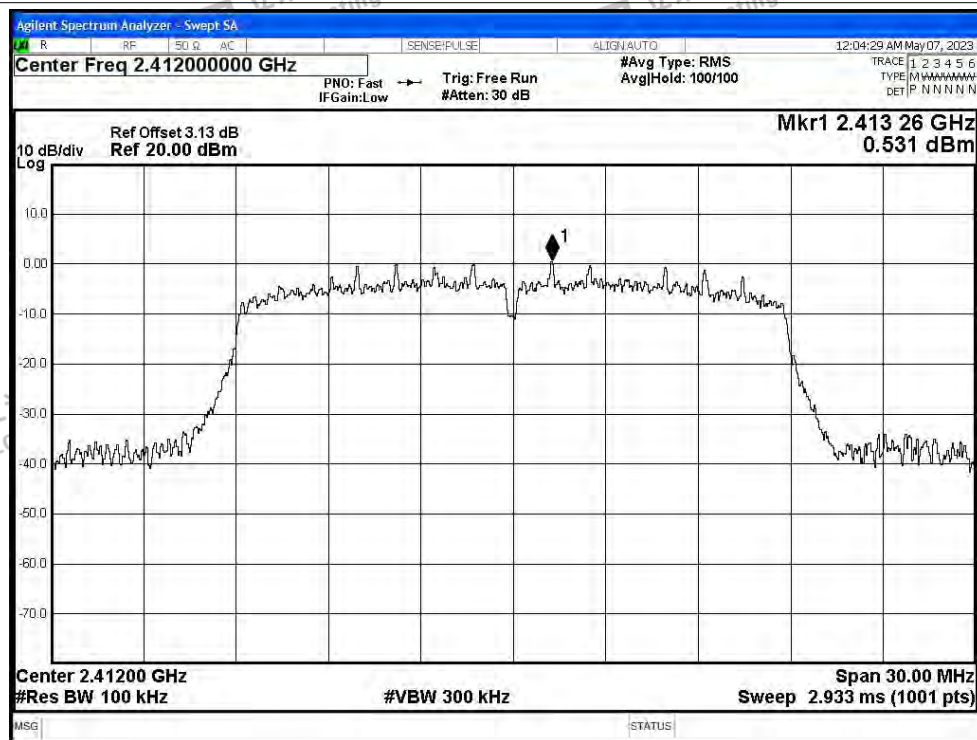
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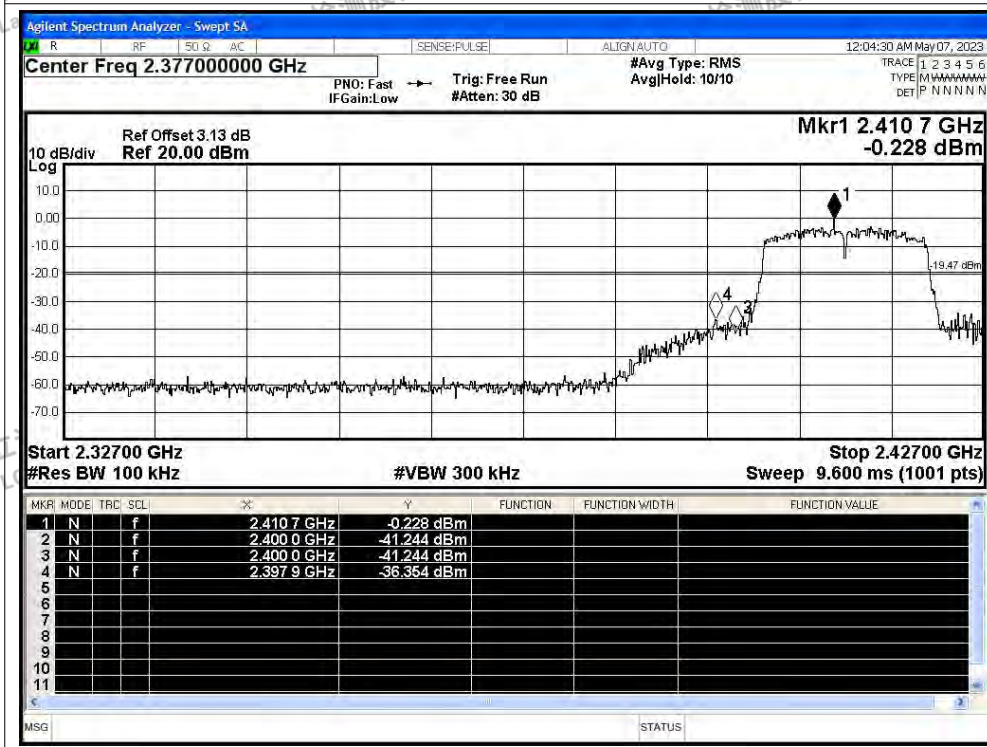
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Band Edge NVNT n20 2412MHz Ant1 Ref



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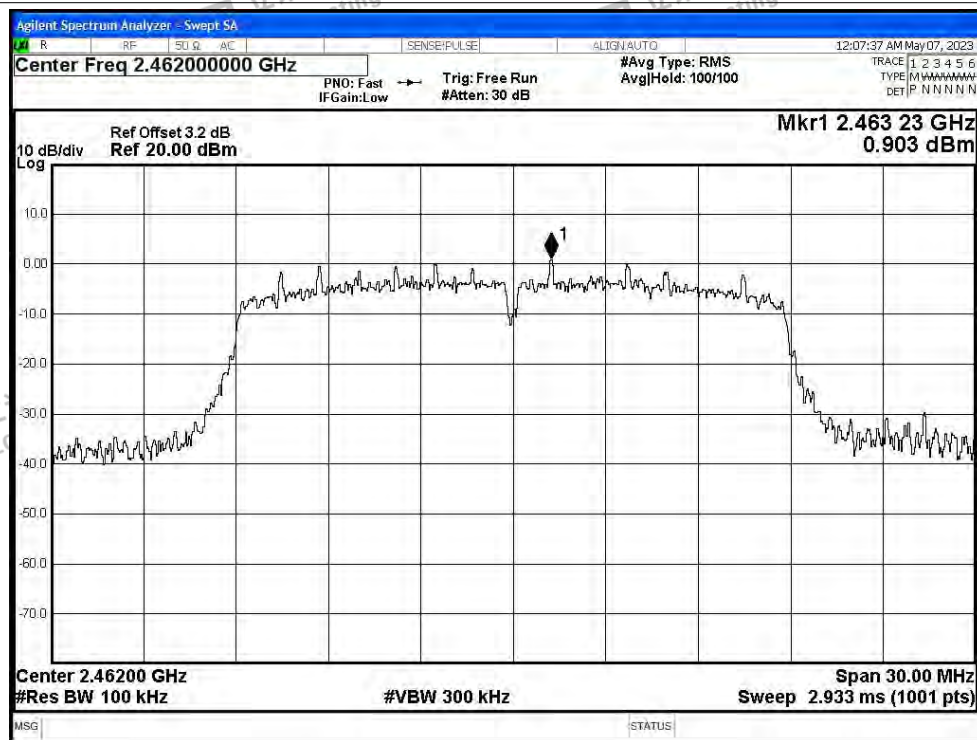
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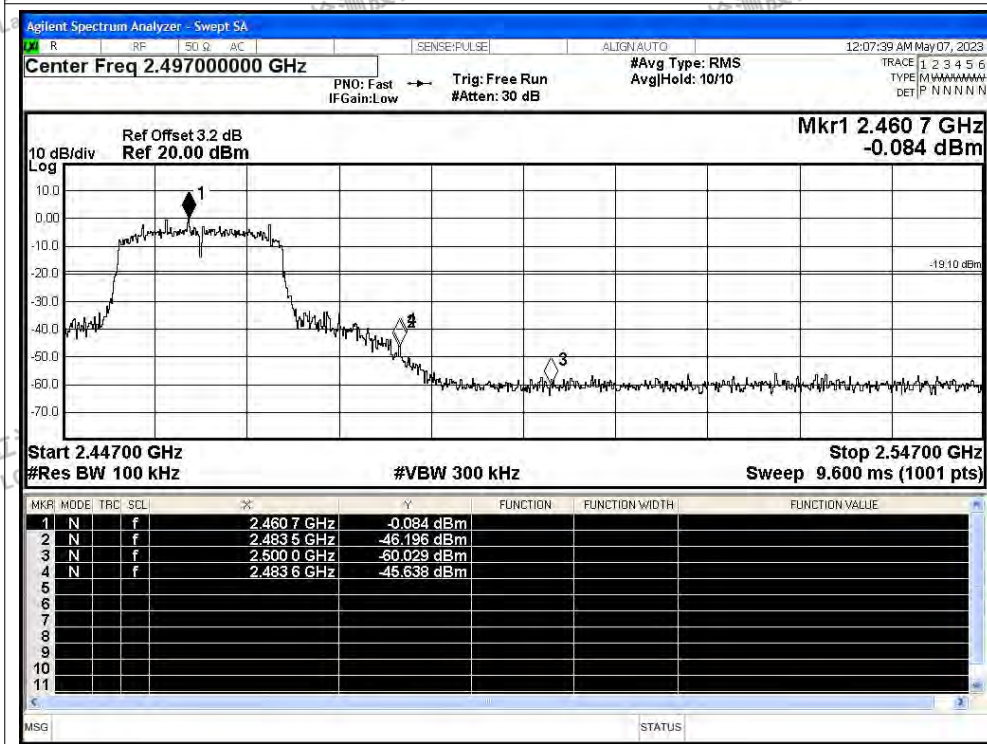
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B.6 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.43	-20	Pass
NVNT	b	2437	Ant1	-52.13	-20	Pass
NVNT	b	2462	Ant1	-50.67	-20	Pass
NVNT	g	2412	Ant1	-49.37	-20	Pass
NVNT	g	2437	Ant1	-47.85	-20	Pass
NVNT	g	2462	Ant1	-49.58	-20	Pass
NVNT	n20	2412	Ant1	-45.47	-20	Pass
NVNT	n20	2437	Ant1	-45.78	-20	Pass
NVNT	n20	2462	Ant1	-46.09	-20	Pass



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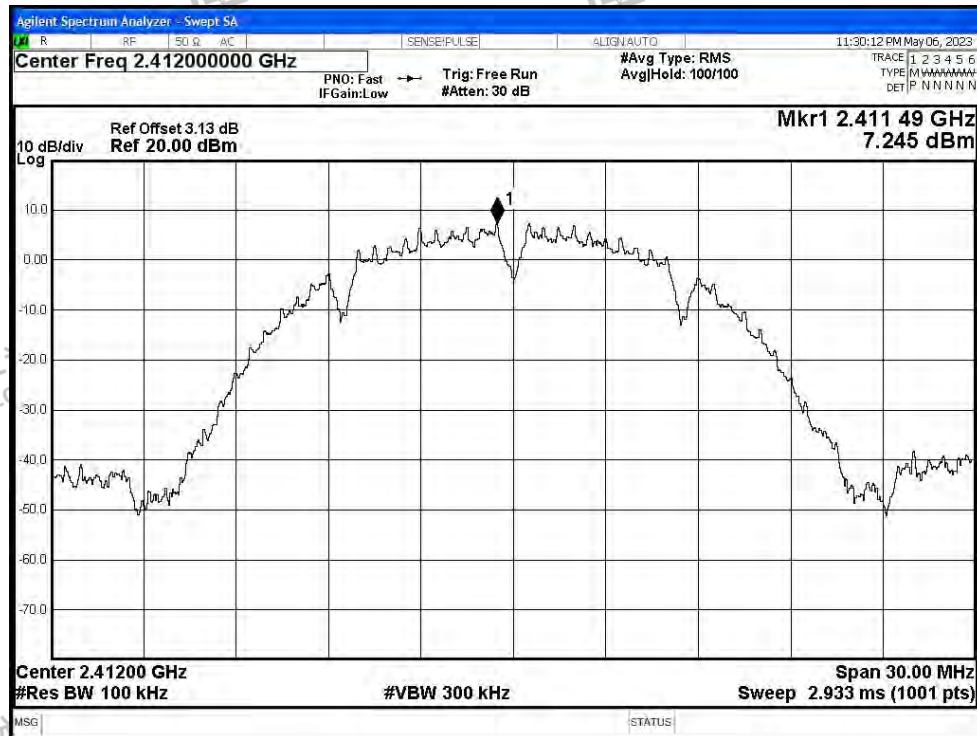
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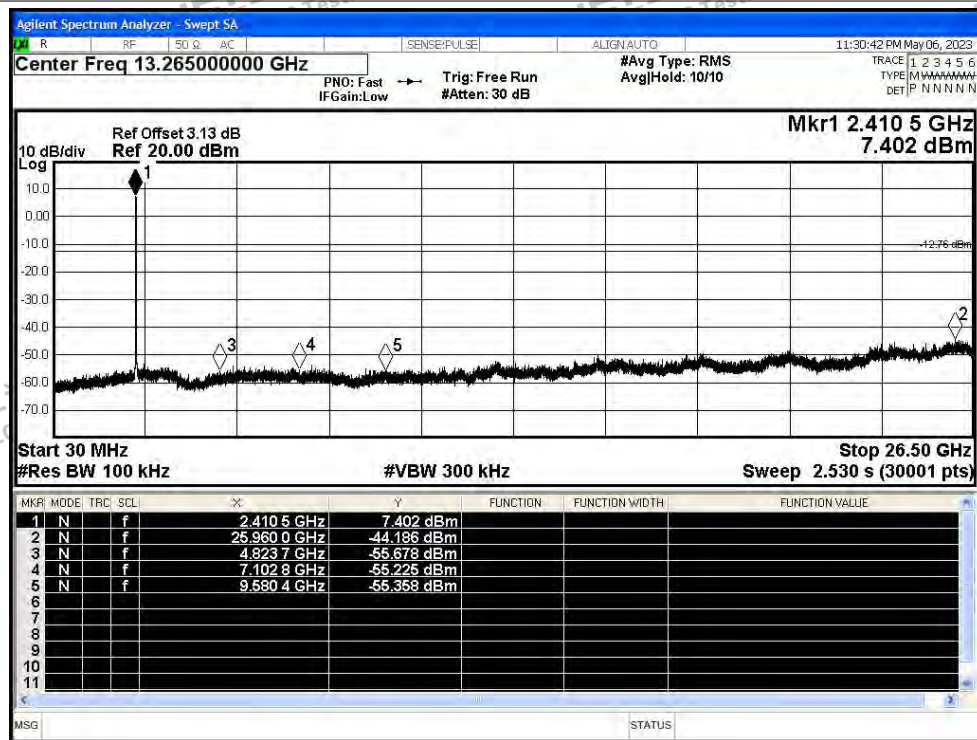


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



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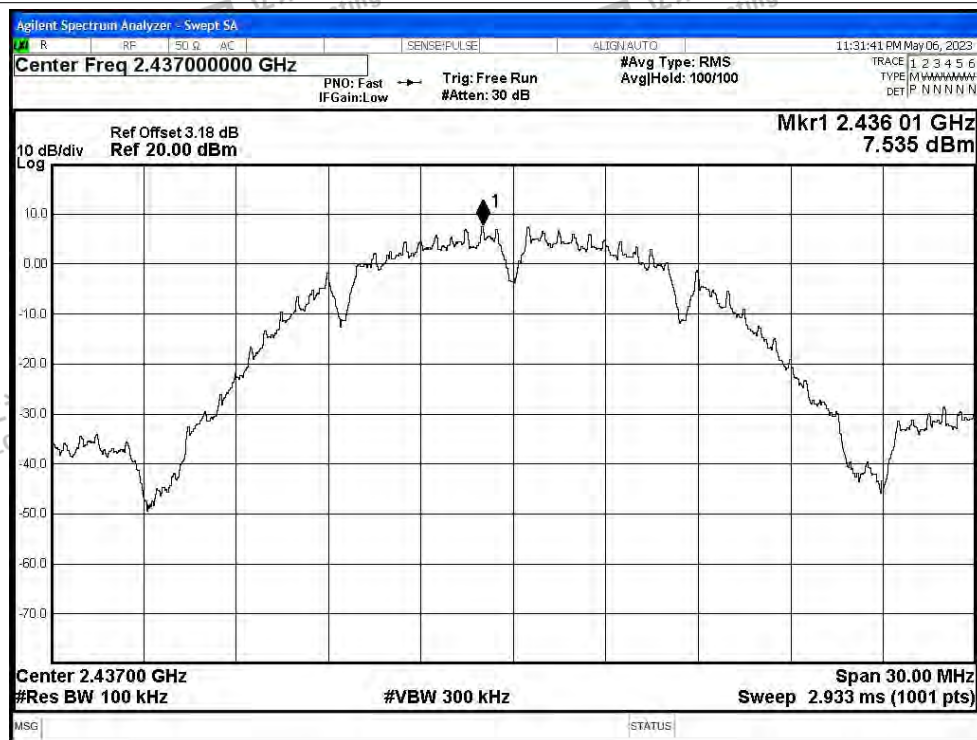
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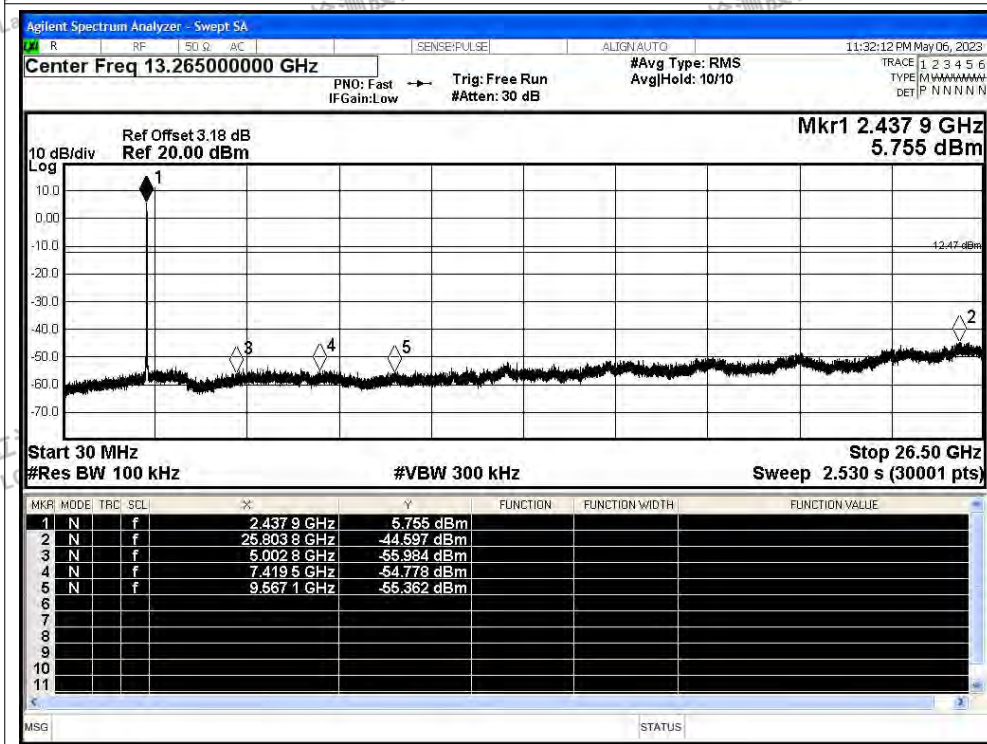
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Tx: Spurious NVNT b 2437MHz Ant1 Ref



Tx: Spurious NVNT b 2437MHz Ant1 Emission



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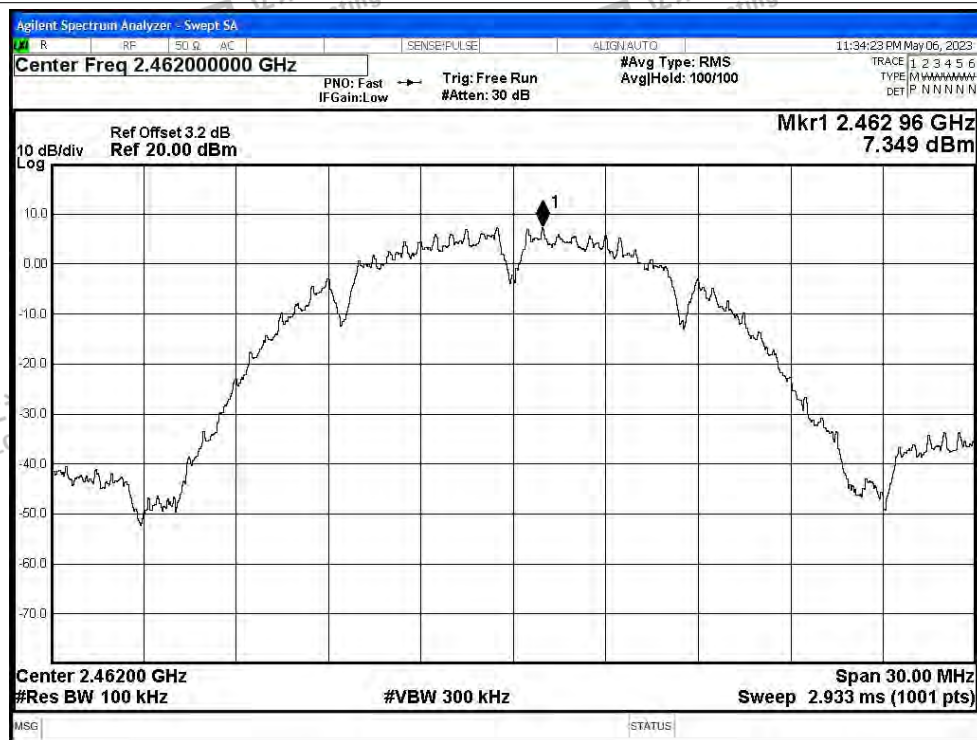
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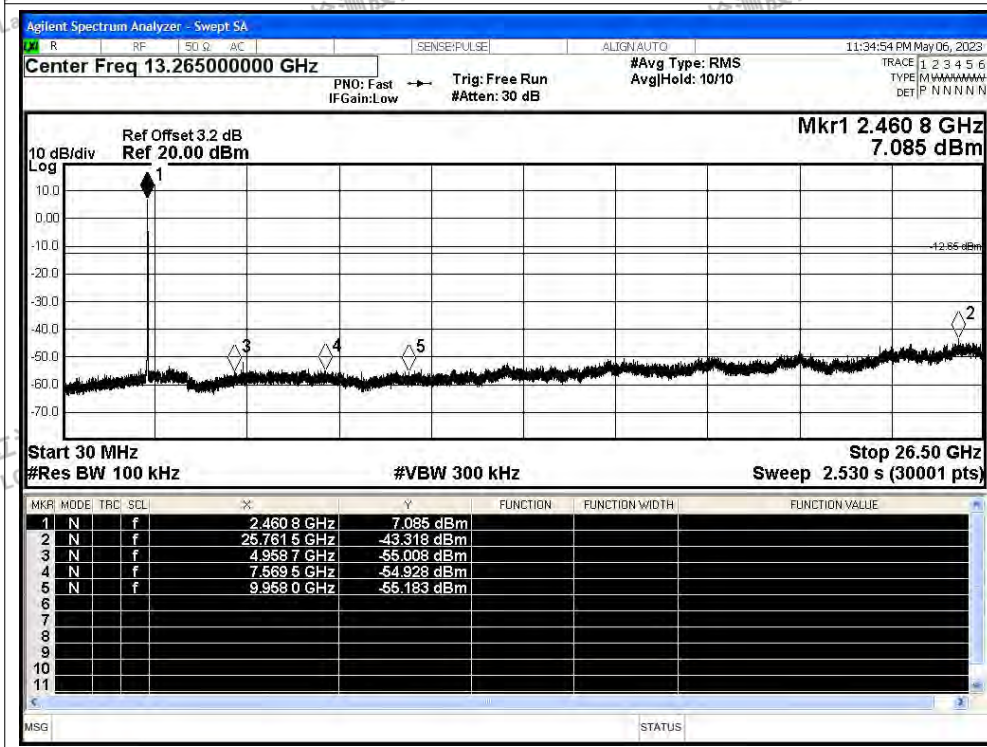
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Tx. Spurious NVNT b 2462MHz Ant1 Ref



Tx. Spurious NVNT b 2462MHz Ant1 Emission



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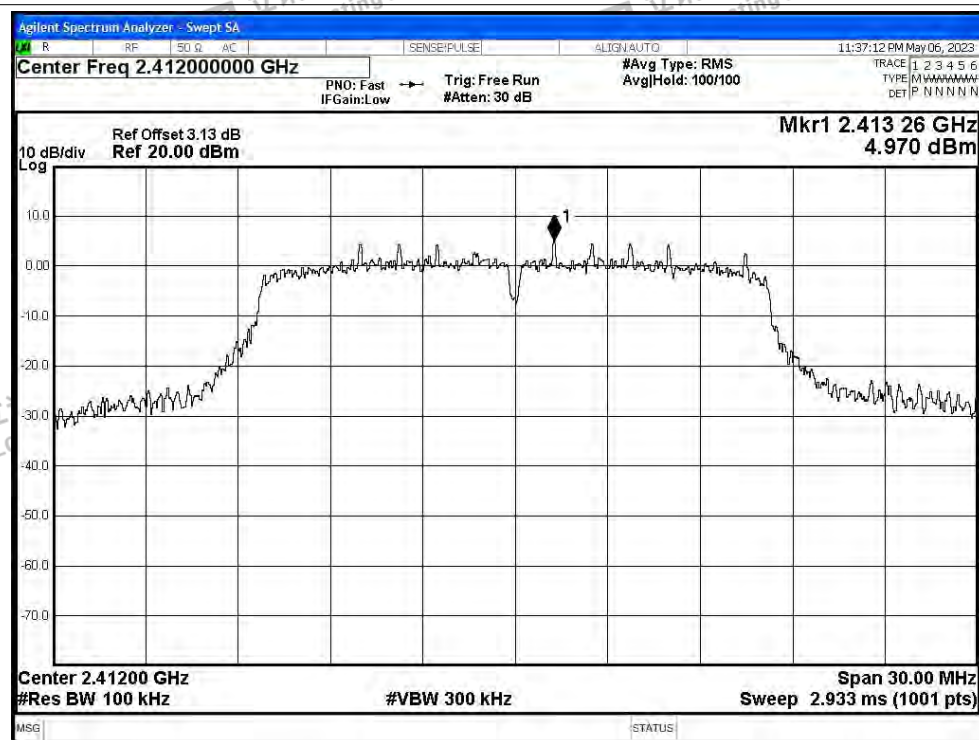
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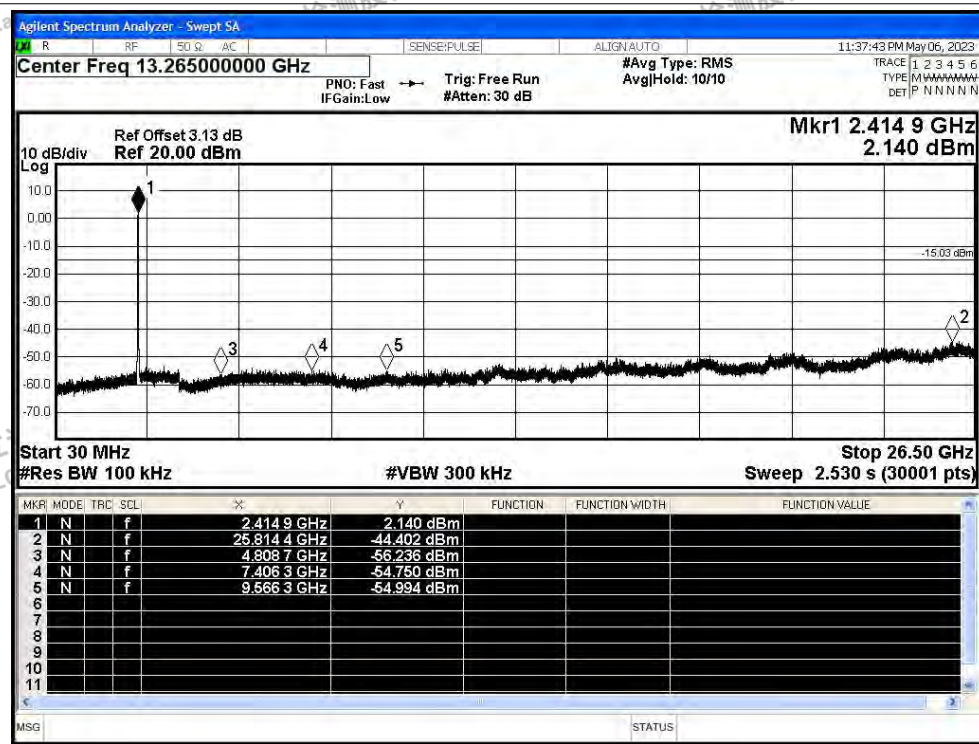
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Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission



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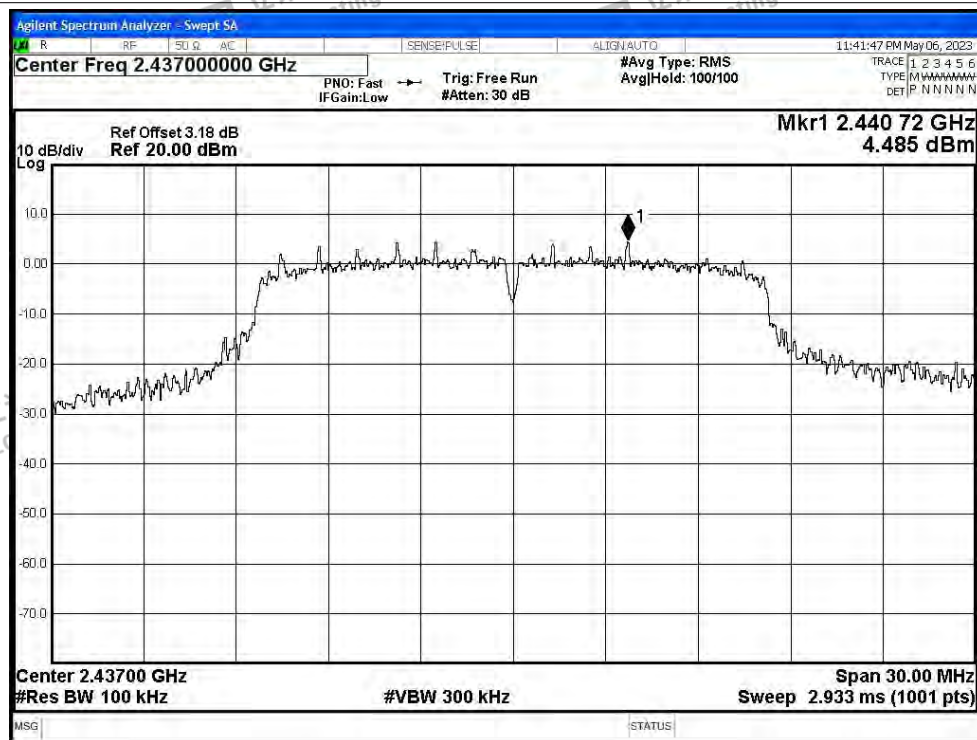
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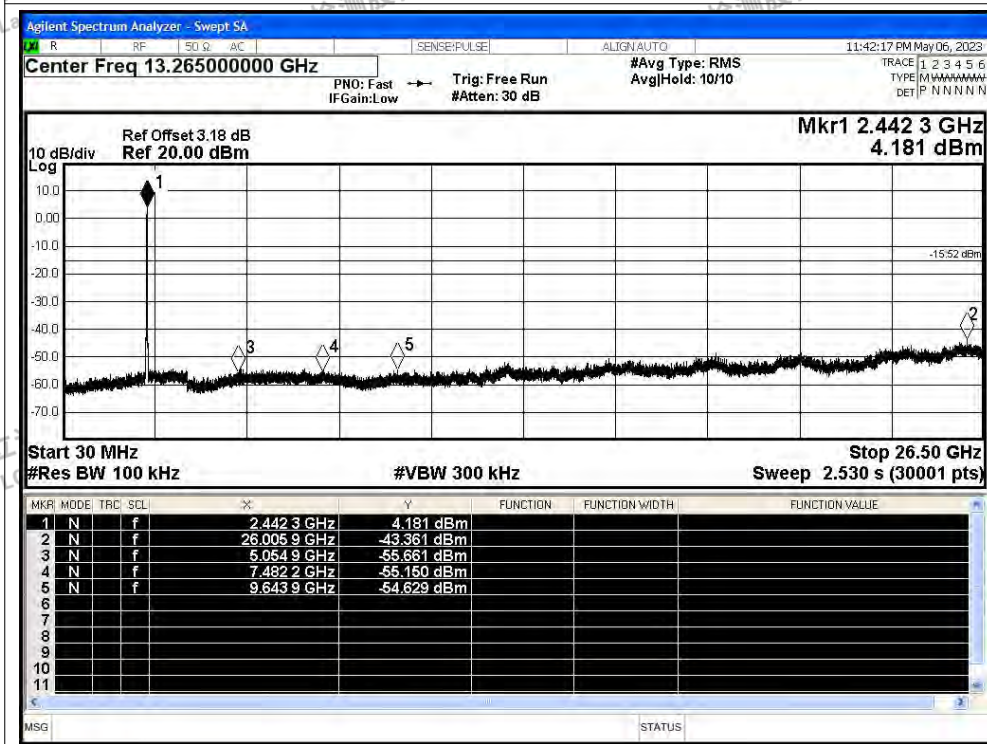
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Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission



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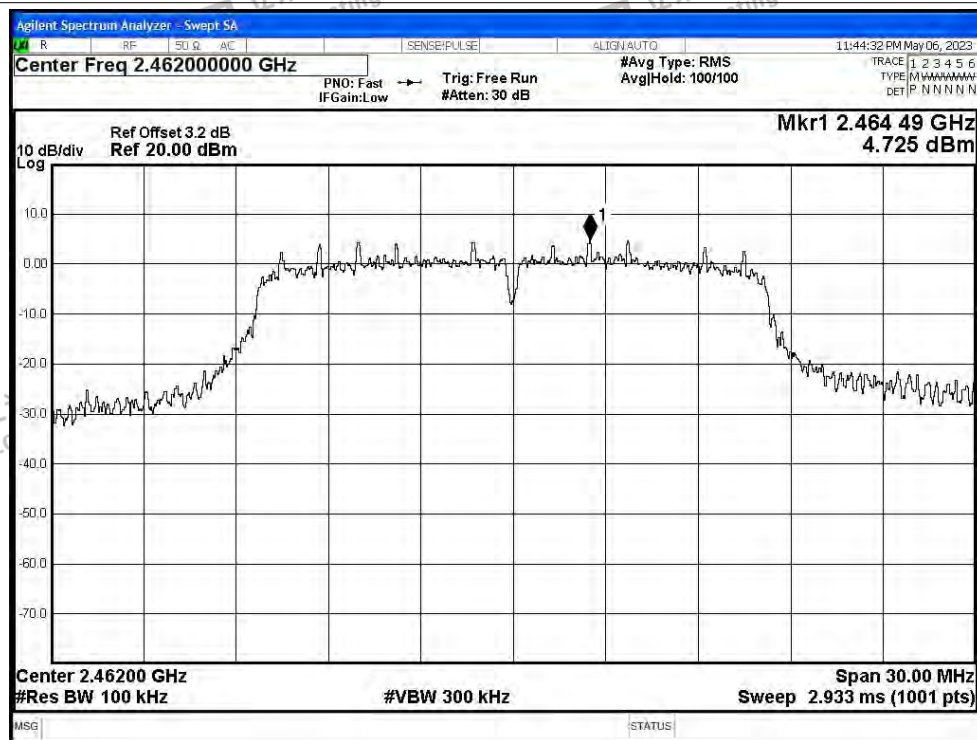
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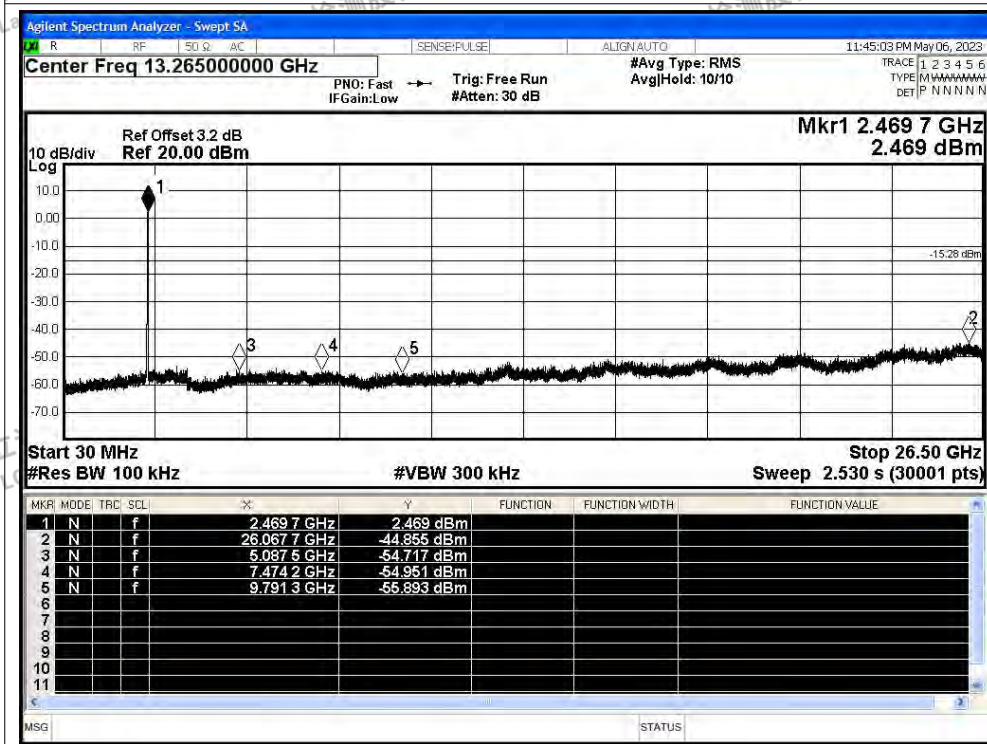
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Tx. Spurious NVNT g 2462MHz Ant1 Ref



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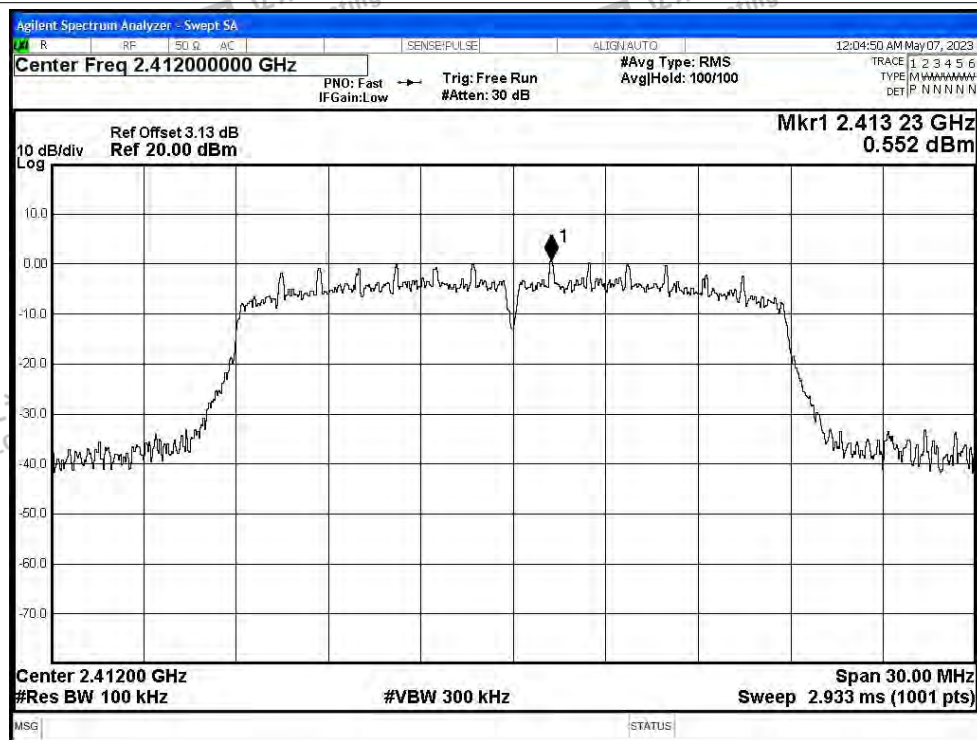
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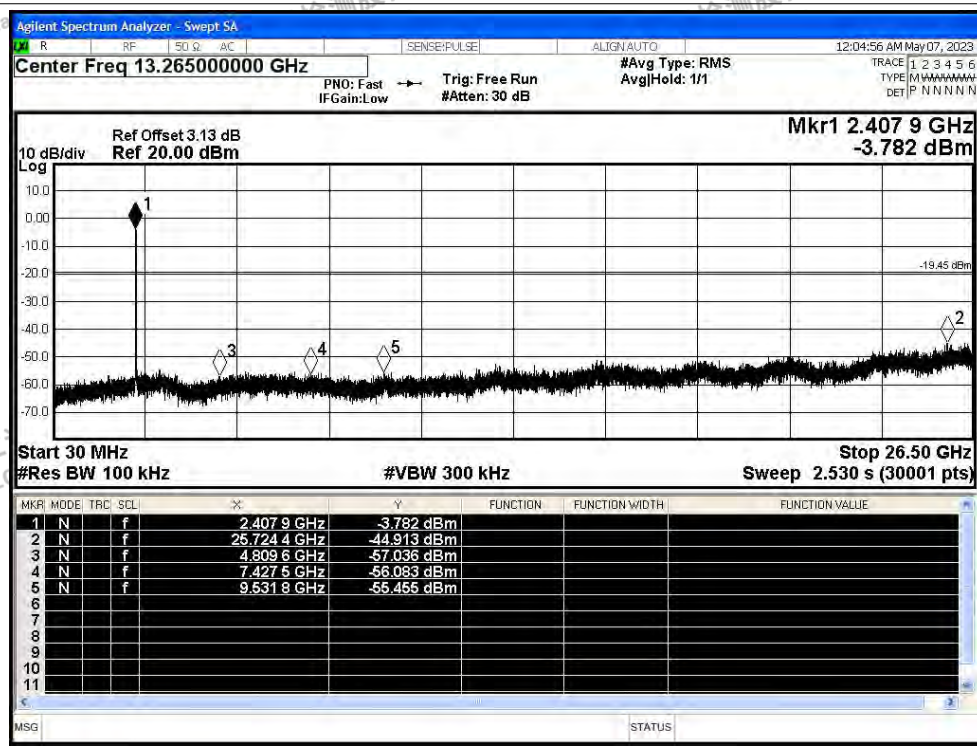
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Tx. Spurious NVNT n20 2412MHz Ant1 Ref



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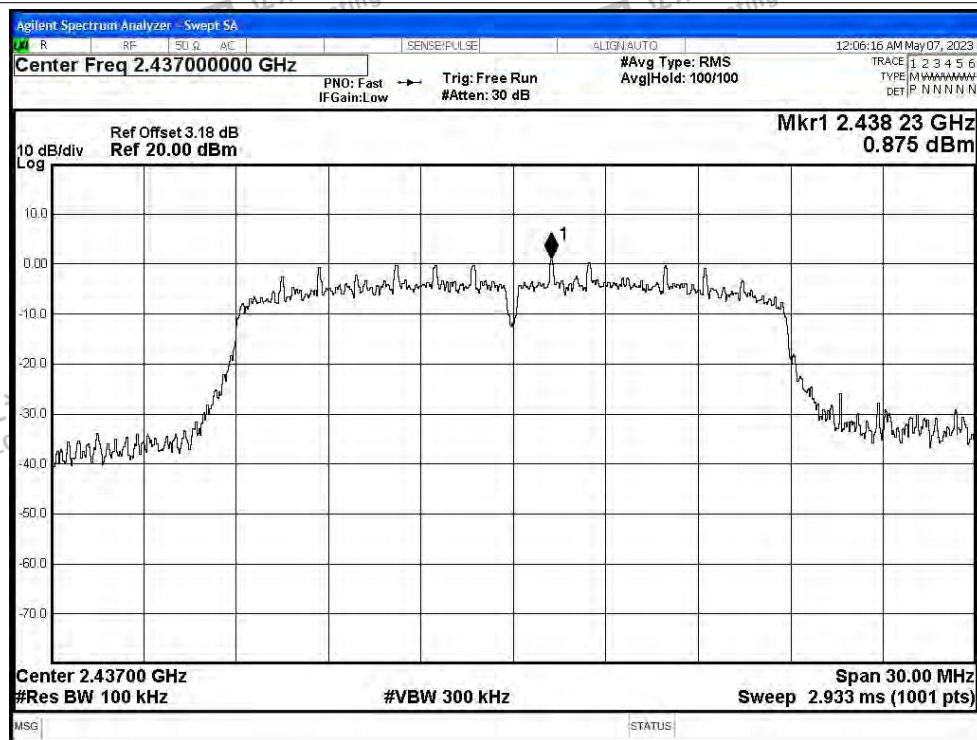
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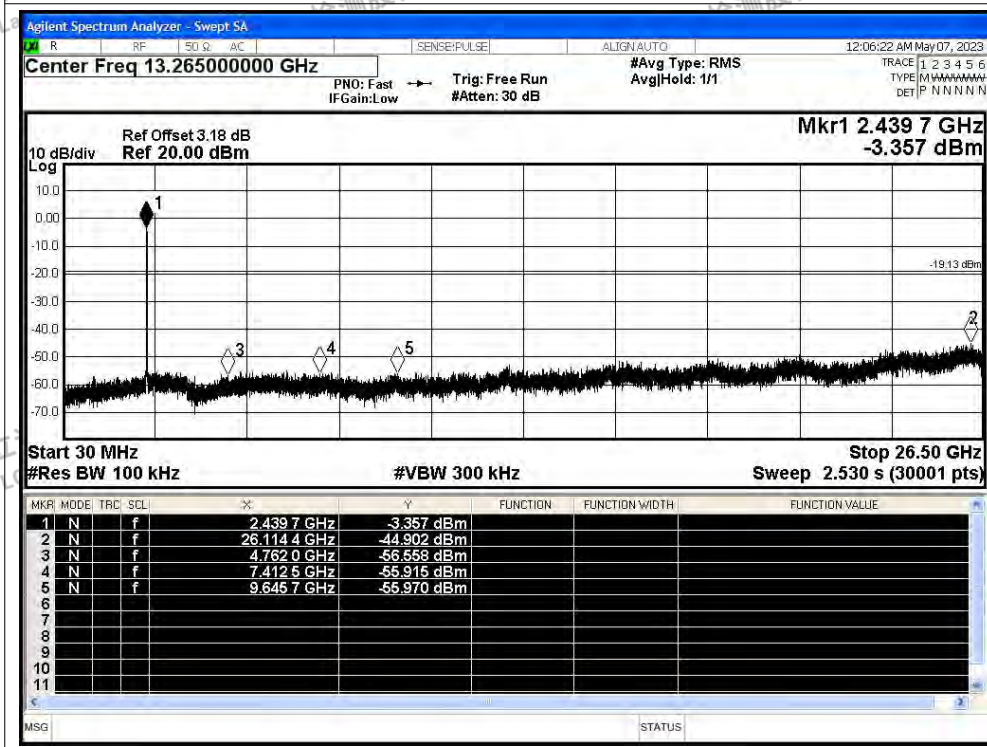
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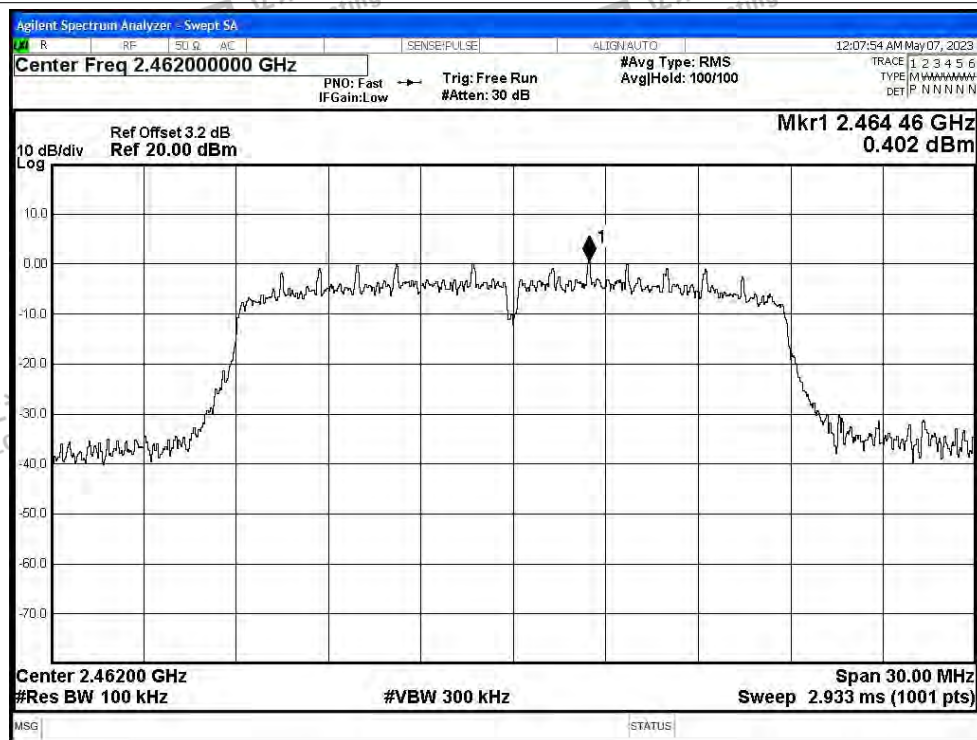
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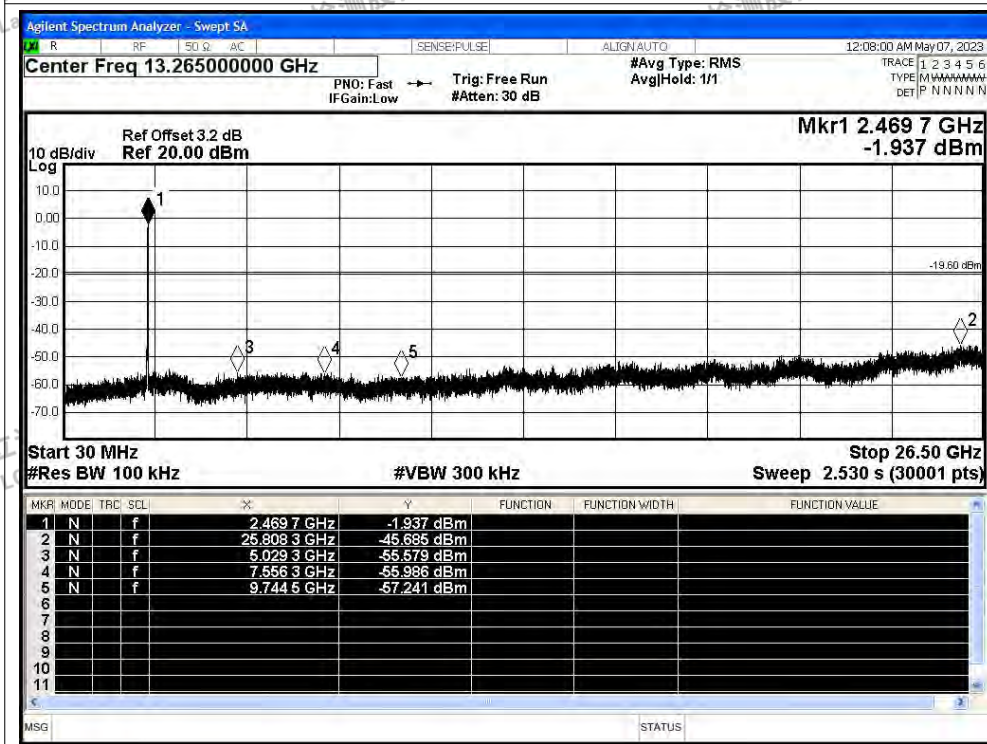
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Tx. Spurious NVNT n20 2462MHz Ant1 Ref



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B.7 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	96.9	0.14	1.6
NVNT	b	2437	Ant1	96.9	0.14	1.6
NVNT	b	2462	Ant1	96.9	0.14	1.6
NVNT	g	2412	Ant1	96.4	0.16	1.44
NVNT	g	2437	Ant1	96.4	0.16	1.44
NVNT	g	2462	Ant1	96.4	0.16	1.44
NVNT	n20	2412	Ant1	96.22	0.17	1.51
NVNT	n20	2437	Ant1	96.21	0.17	1.52
NVNT	n20	2462	Ant1	96.22	0.17	1.51



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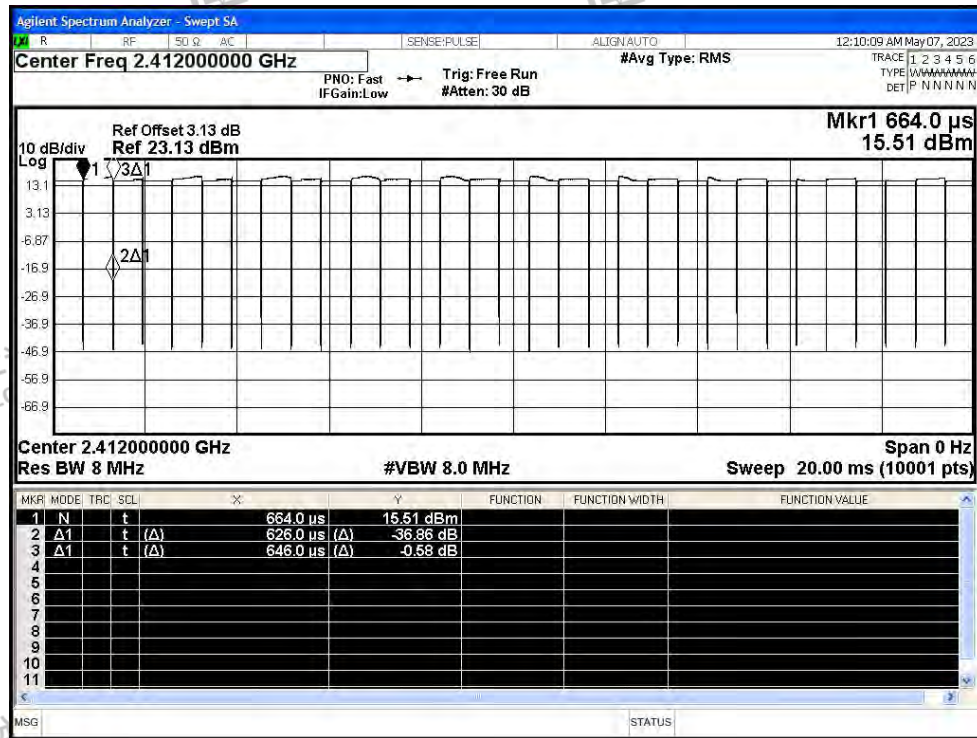
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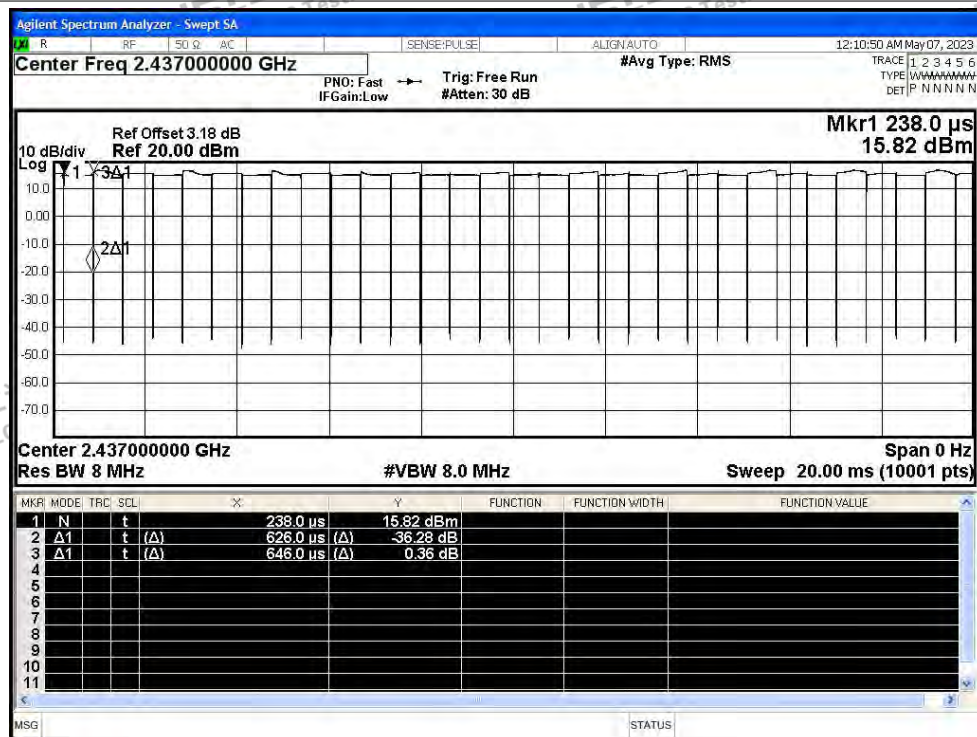


Test Graphs

Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

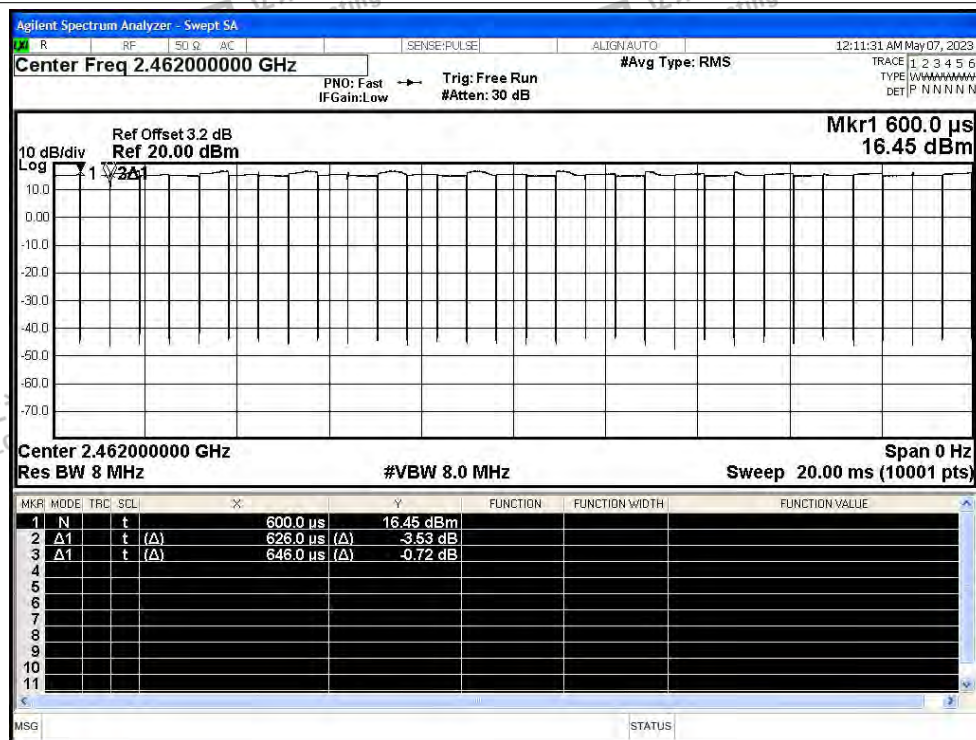
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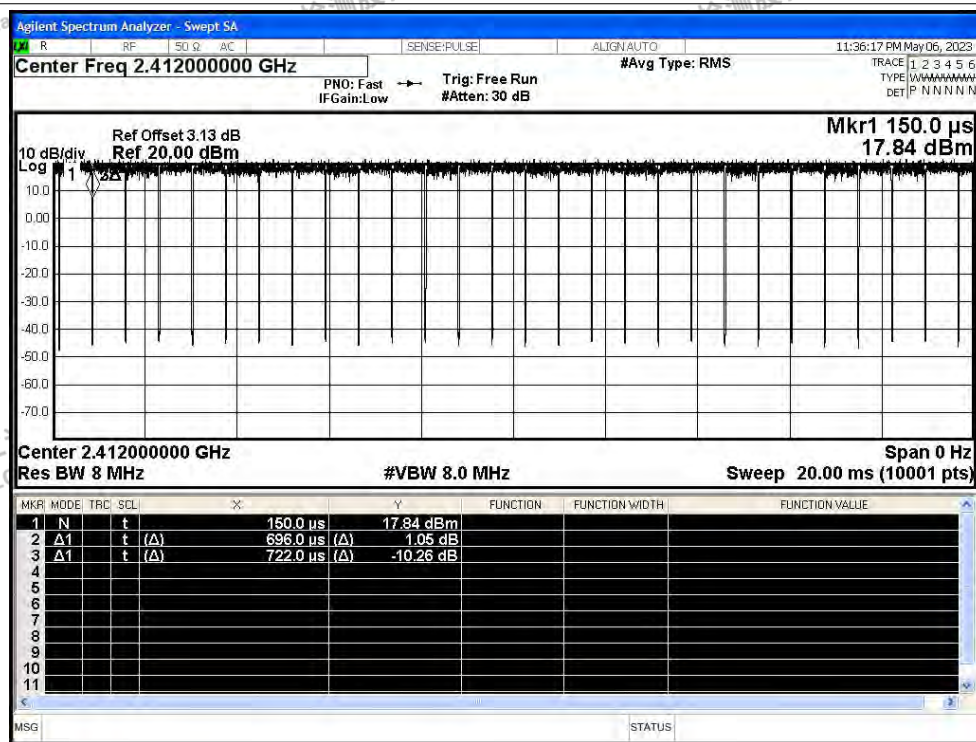
Scan code to check authenticity



Duty Cycle NVNT b 2462MHz Ant1



Duty Cycle NVNT g 2412MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

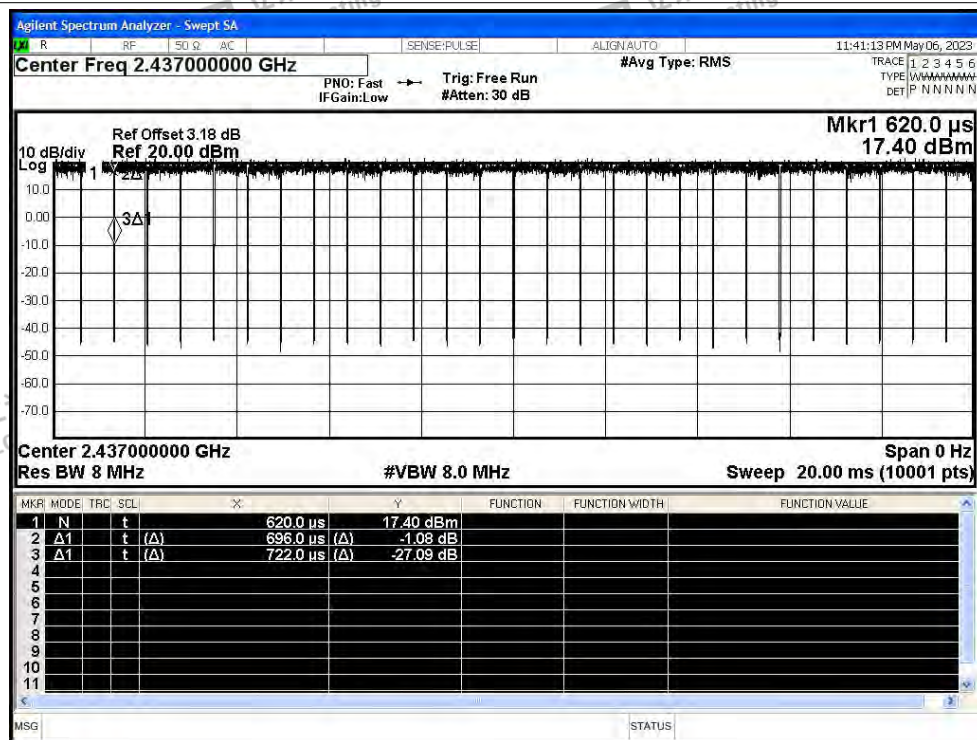
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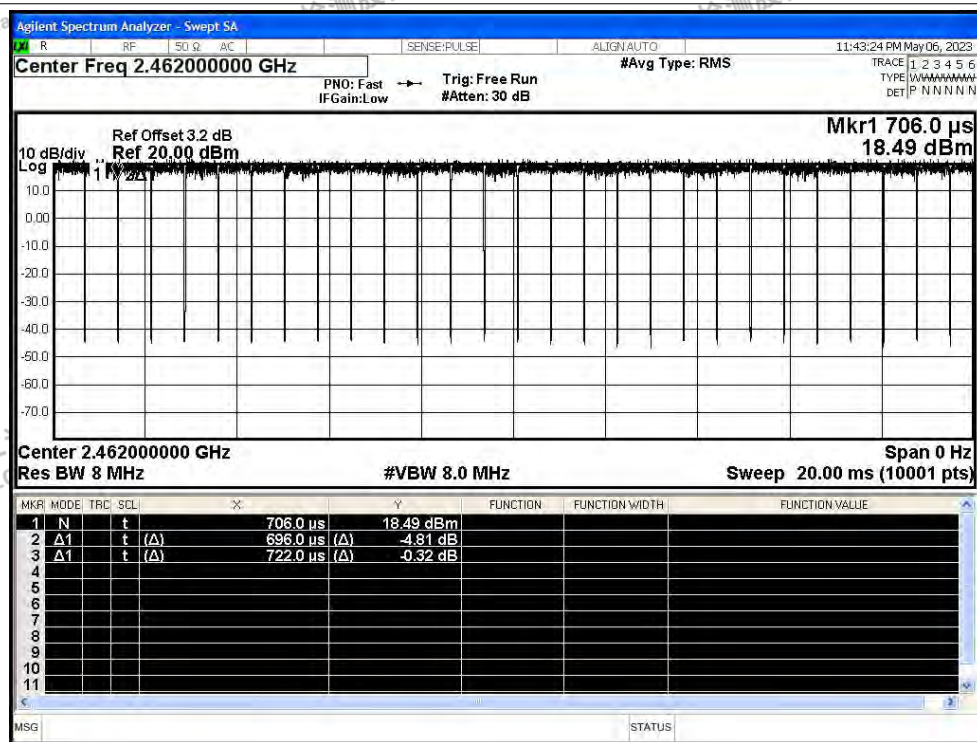
Scan code to check authenticity



Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2462MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

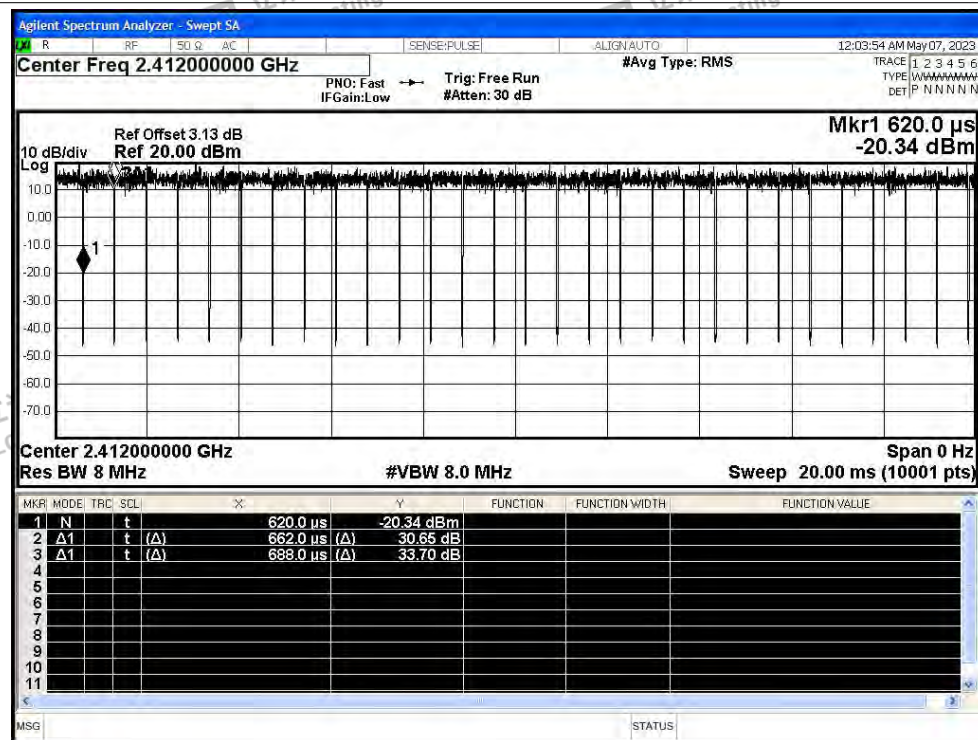
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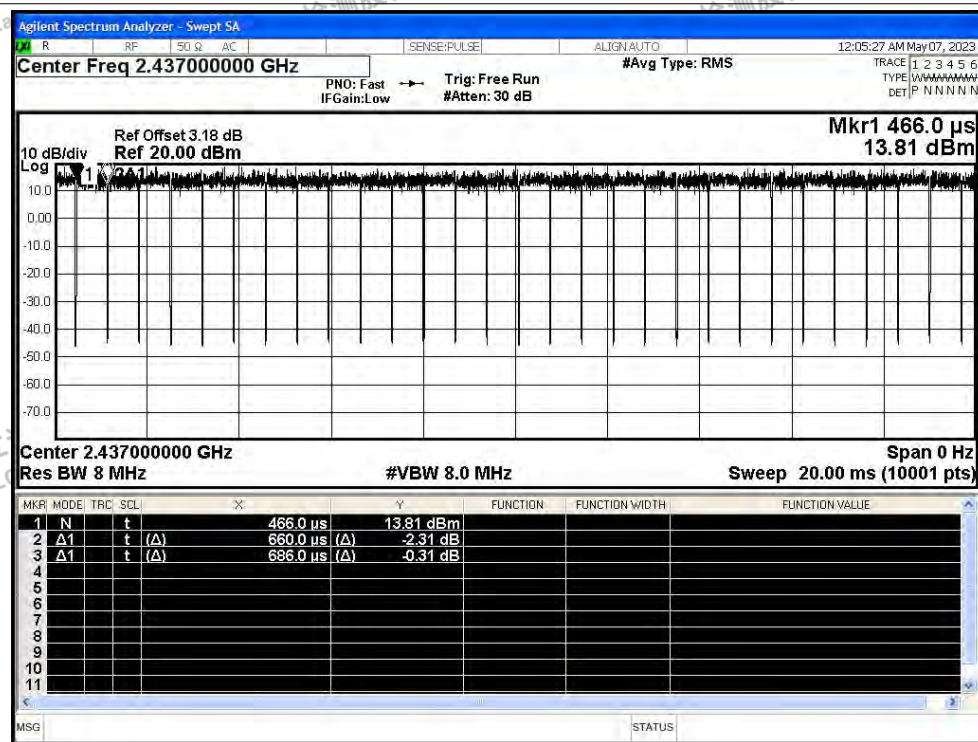
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Duty Cycle NVNT n20 2412MHz Ant1



Duty Cycle NVNT n20 2437MHz Ant1

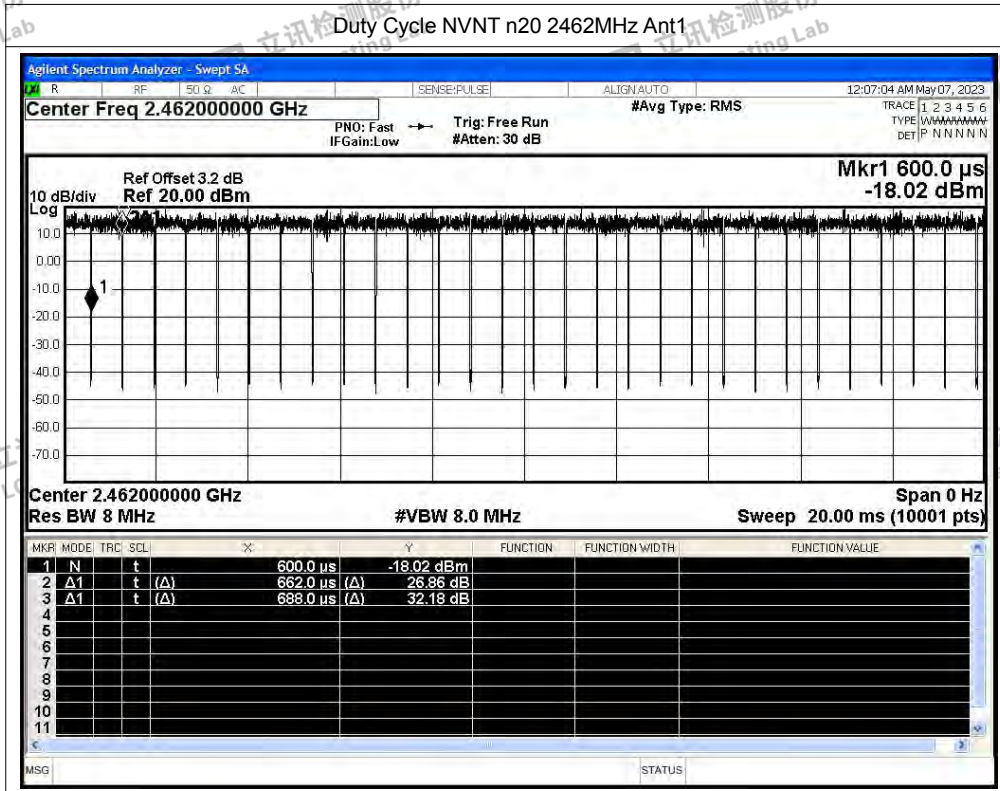


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B.8 Restrict Band

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	-49.9	2	47.36	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-56.37	2	40.89	Average	54	Pass
NVNT	b	2412	Ant1	2389.56	-43.07	2	54.19	Peak	74	Pass
NVNT	b	2412	Ant1	2388.273	-50.55	2	46.71	Average	54	Pass
NVNT	b	2412	Ant1	2390	-44.29	2	52.97	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-50.42	2	46.84	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-41.79	2	55.47	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-48.07	2	49.19	Average	54	Pass
NVNT	b	2462	Ant1	2486.644	-41.14	2	56.12	Peak	74	Pass
NVNT	b	2462	Ant1	2483.517	-48.07	2	49.19	Average	54	Pass
NVNT	b	2462	Ant1	2500	-49.94	2	47.32	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-55.56	2	41.7	Average	54	Pass
NVNT	g	2412	Ant1	2310	-50.53	2	46.73	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-56.55	2	40.71	Average	54	Pass
NVNT	g	2412	Ant1	2389.677	-38.38	2	58.88	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-48.74	2	48.52	Average	54	Pass
NVNT	g	2412	Ant1	2390	-41.67	2	55.59	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-48.74	2	48.52	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-40.48	2	56.78	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-46.72	2	50.54	Average	54	Pass
NVNT	g	2462	Ant1	2484.471	-33.04	2	64.22	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-46.72	2	50.54	Average	54	Pass
NVNT	g	2462	Ant1	2500	-48.4	2	48.86	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-55.72	2	41.54	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-50.3	2	46.96	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-56.41	2	40.85	Average	54	Pass
NVNT	n20	2412	Ant1	2389.911	-29.75	2	67.51	Peak	74	Pass
NVNT	n20	2412	Ant1	2389.911	-46.26	2	51	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-32.53	2	64.73	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-45.99	2	51.27	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-31.39	2	65.87	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-44.26	2	53	Average	54	Pass
NVNT	n20	2462	Ant1	2483.729	-30.11	2	67.15	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.517	-44.26	2	53	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-48.43	2	48.83	Peak	74	Pass
NVNT	n20	2462	Ant1	2500	-55.77	2	41.49	Average	54	Pass



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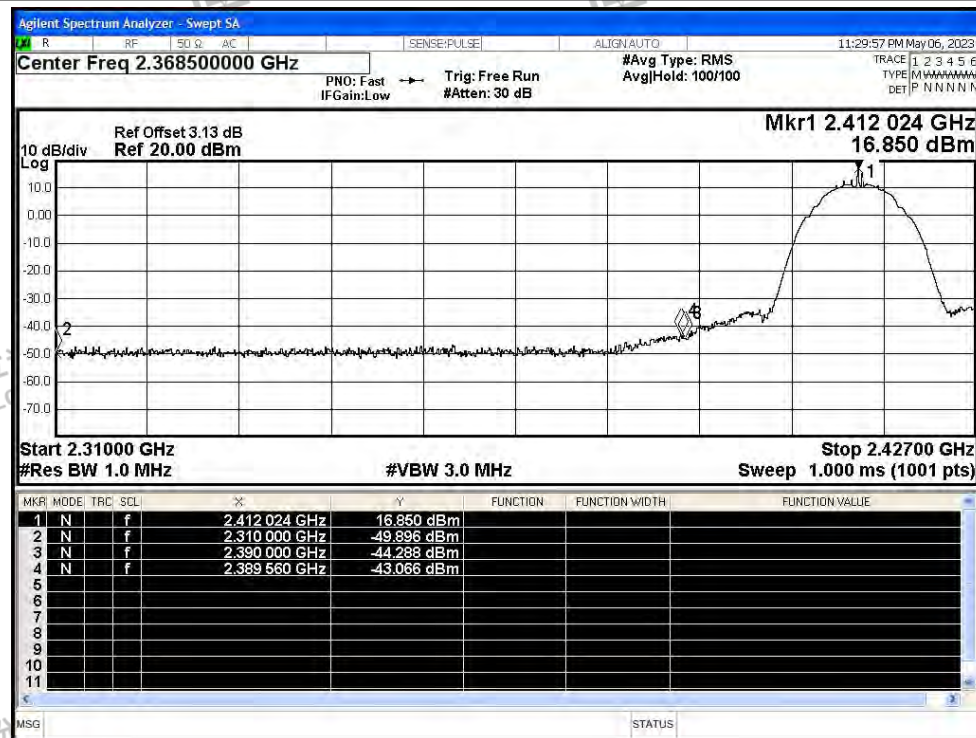
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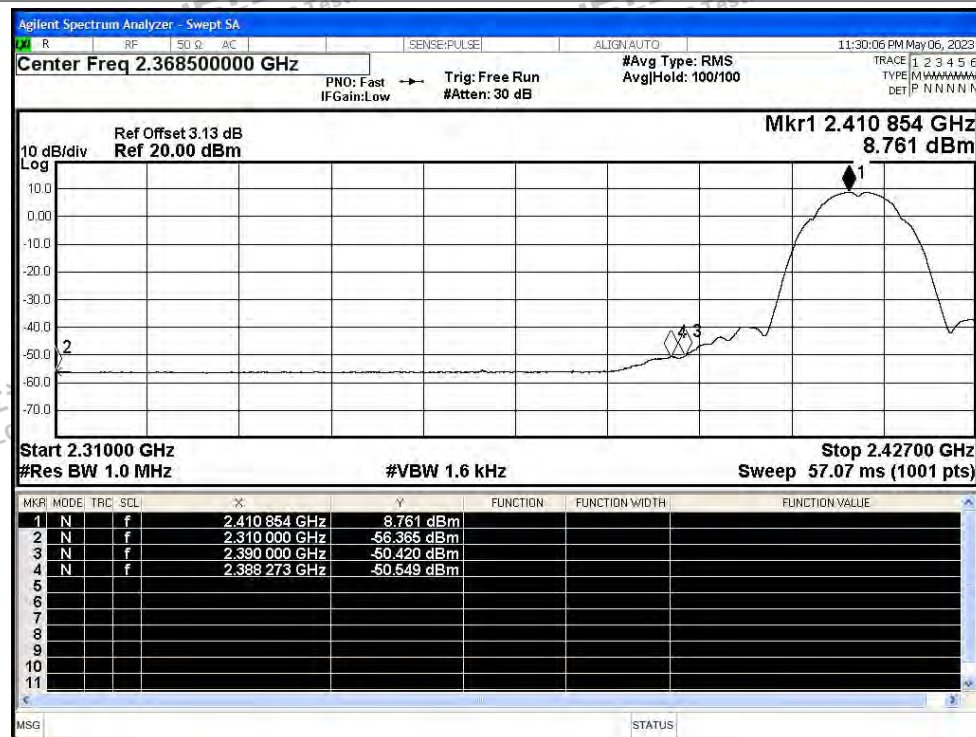


Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average



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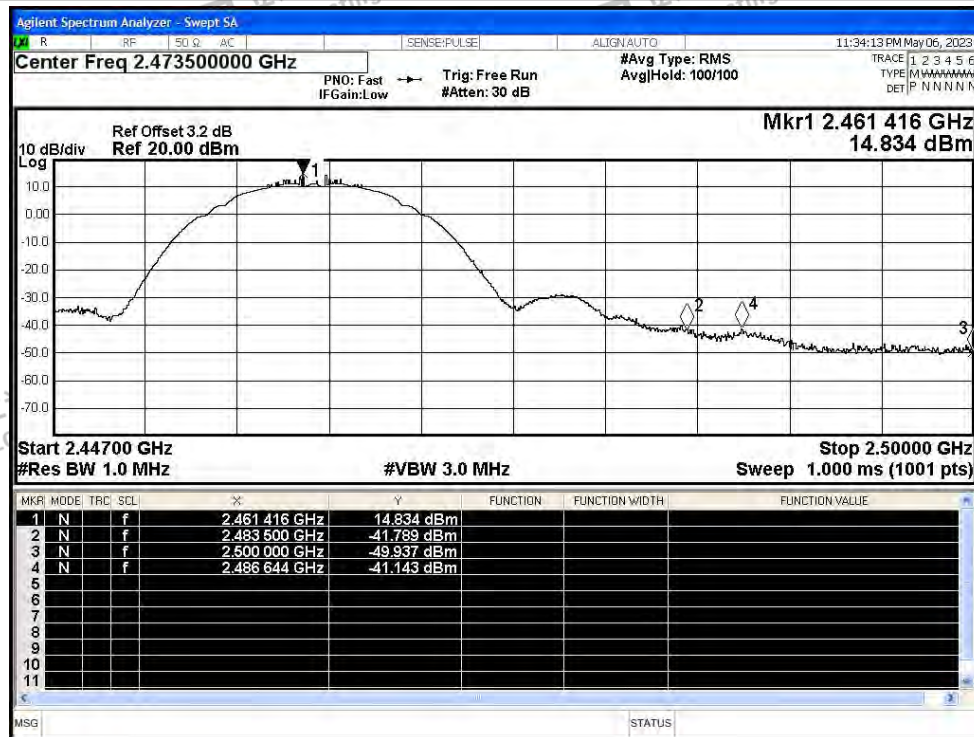
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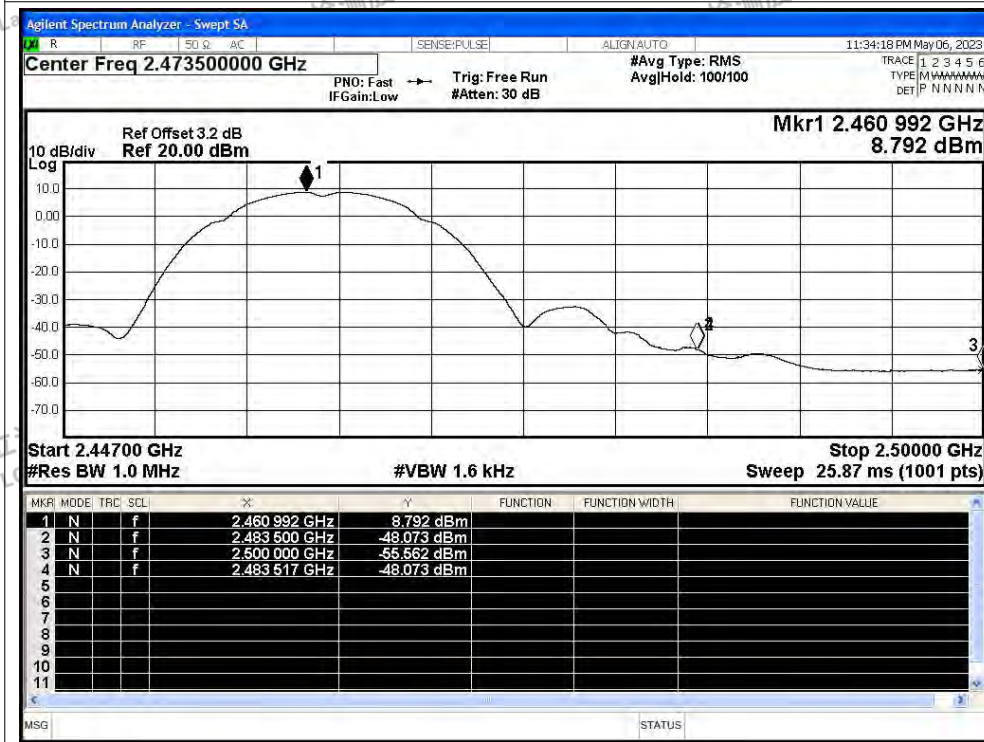
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Restrict Band NVNT b 2462MHz Ant1 Peak



Restrict Band NVNT b 2462MHz Ant1 Average



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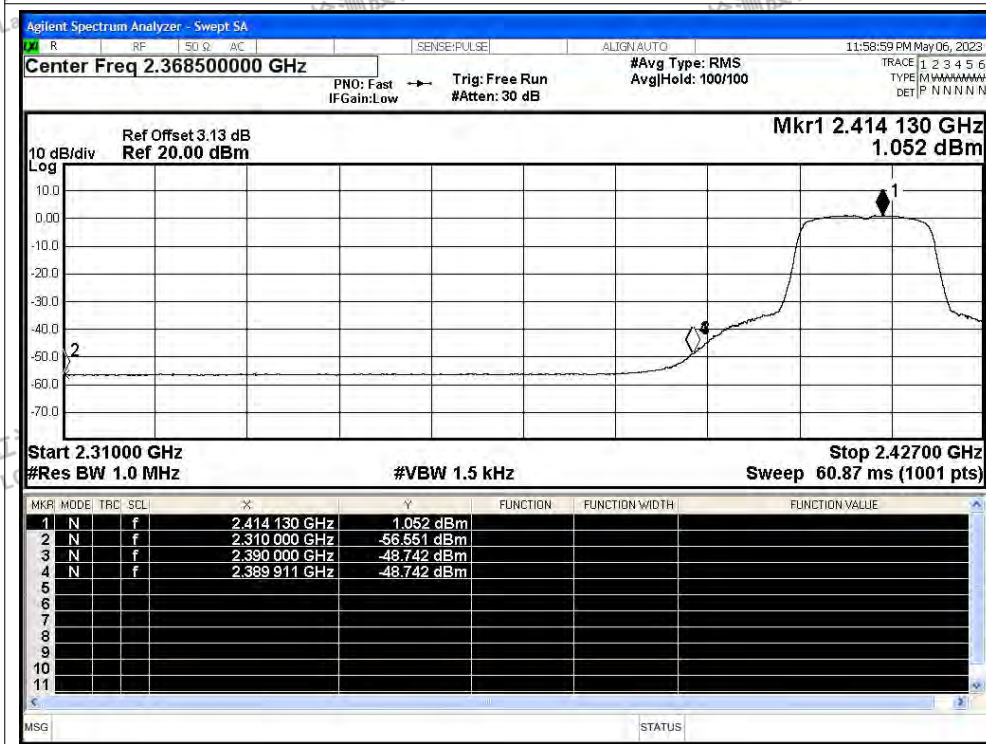
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Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average



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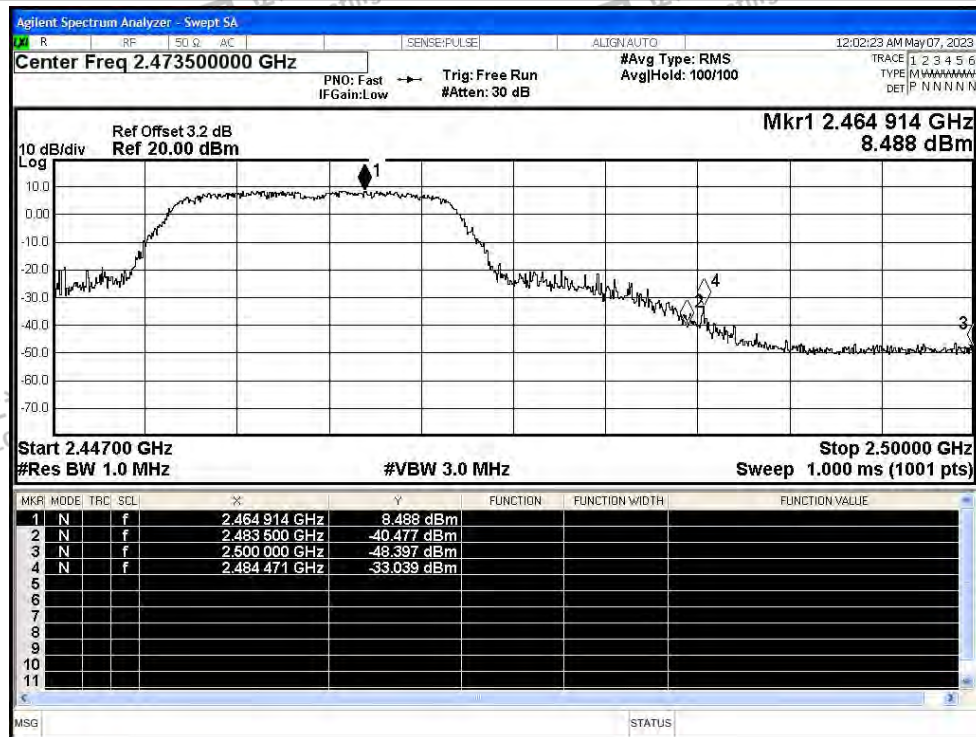
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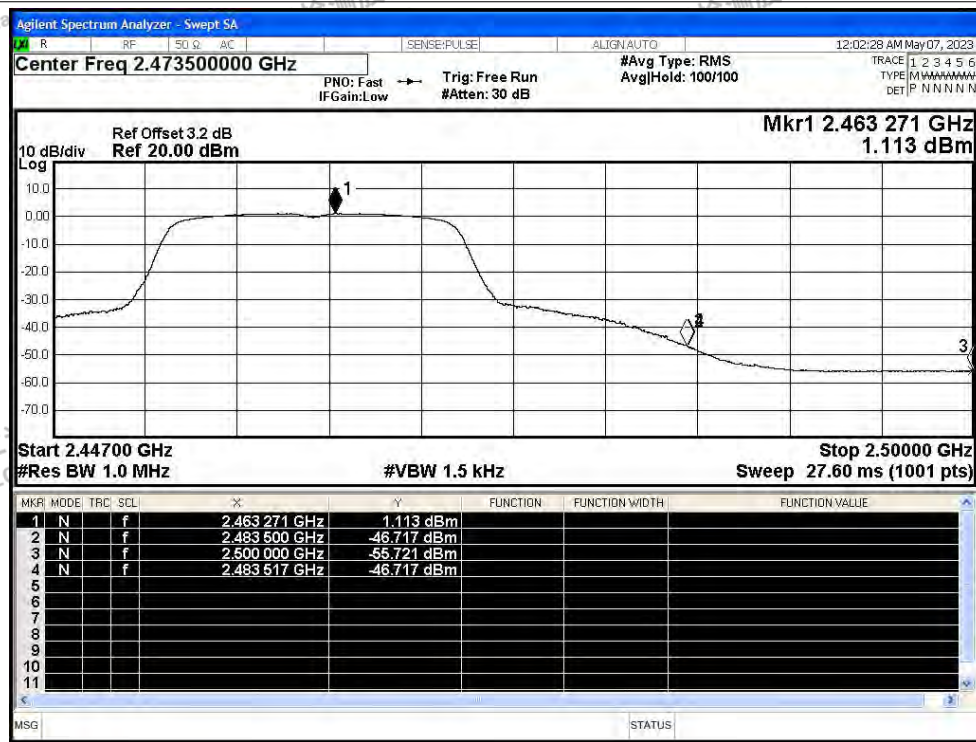
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Restrict Band NVNT g 2462MHz Ant1 Peak



Restrict Band NVNT g 2462MHz Ant1 Average



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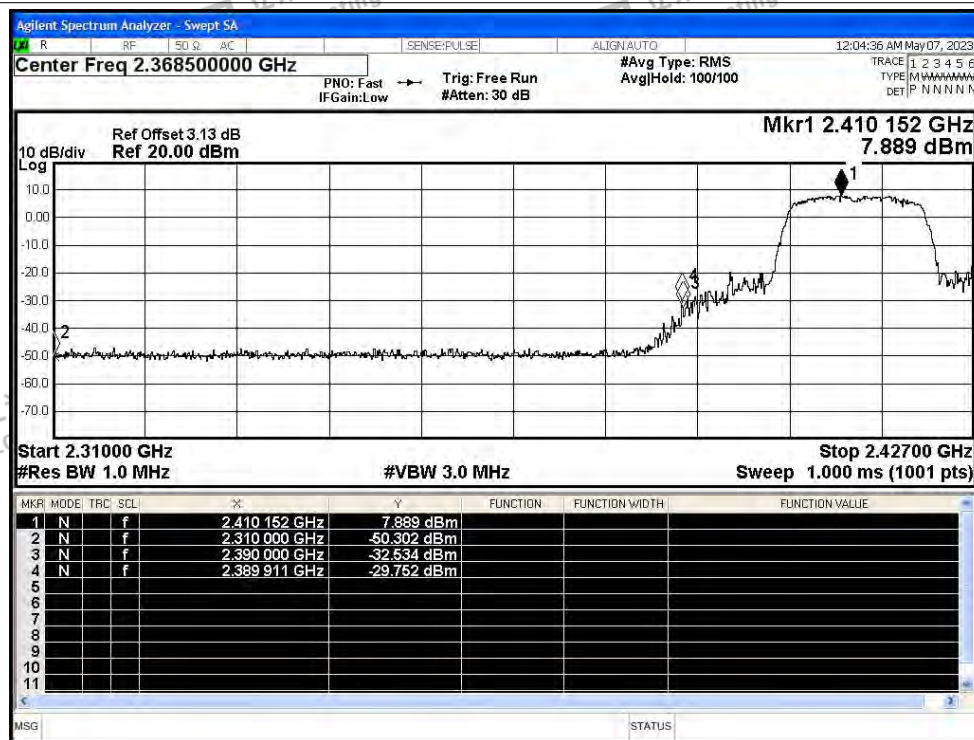
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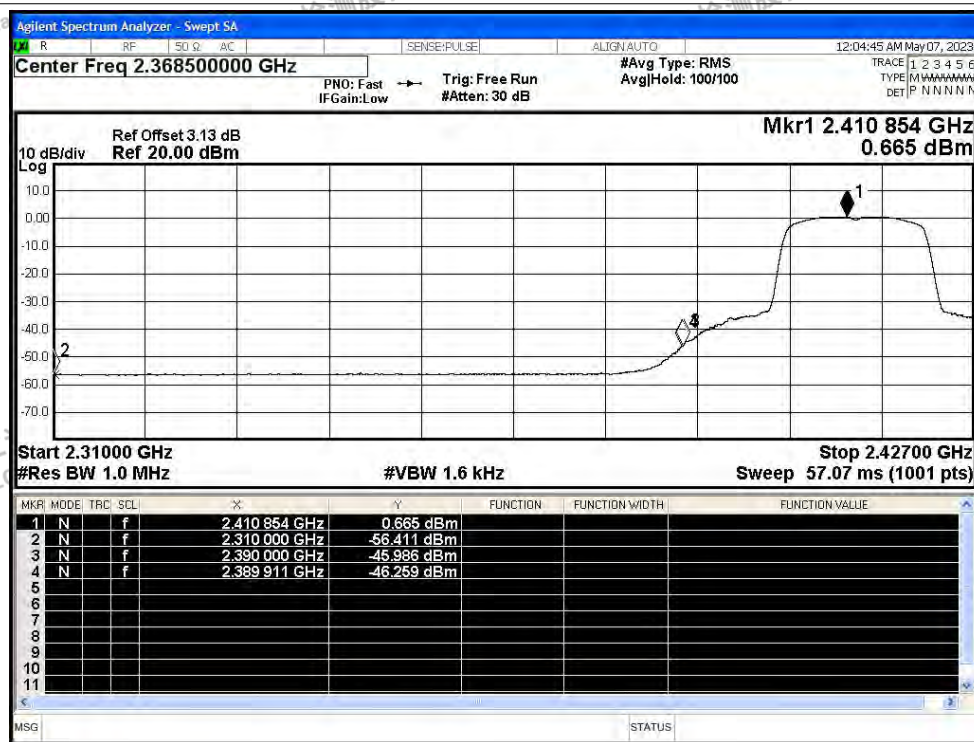
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Restrict Band NVNT n20 2412MHz Ant1 Peak



Restrict Band NVNT n20 2412MHz Ant1 Average



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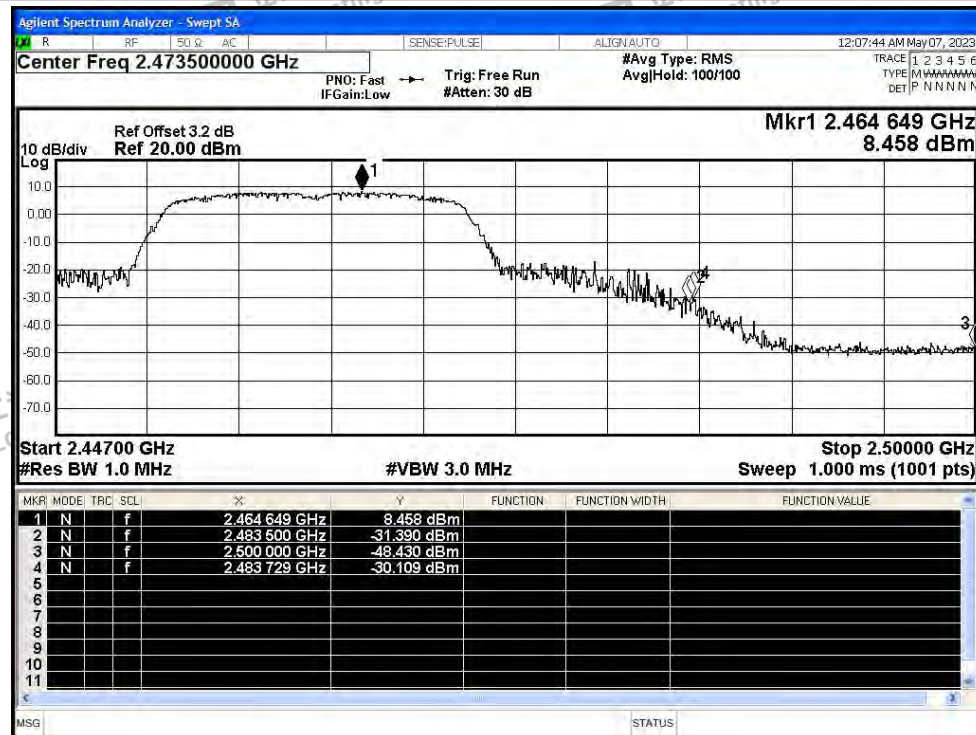
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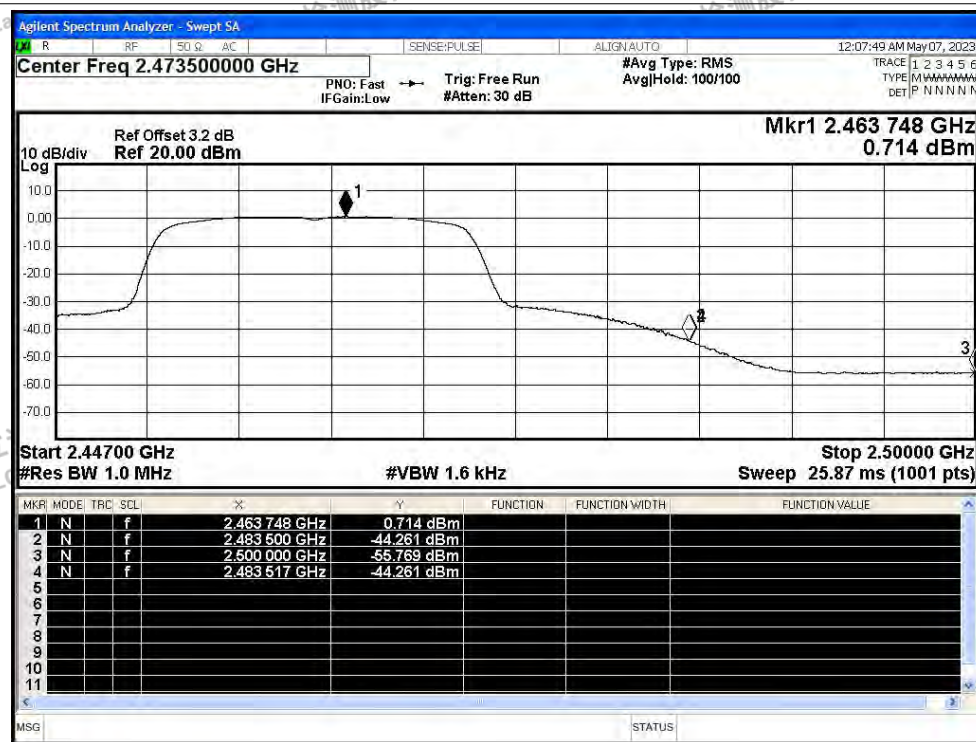
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Restrict Band NVNT n20 2462MHz Ant1 Average



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