



Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Smart plug

Test Model: SP10

Environmental Conditions

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



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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	8.05	0.5	Pass
NVNT	b	2437	Ant1	8.121	0.5	Pass
NVNT	b	2462	Ant1	8.045	0.5	Pass
NVNT	g	2412	Ant1	16.547	0.5	Pass
NVNT	g	2437	Ant1	16.407	0.5	Pass
NVNT	g	2462	Ant1	16.429	0.5	Pass
NVNT	n20	2412	Ant1	17.692	0.5	Pass
NVNT	n20	2437	Ant1	17.735	0.5	Pass
NVNT	n20	2462	Ant1	17.71	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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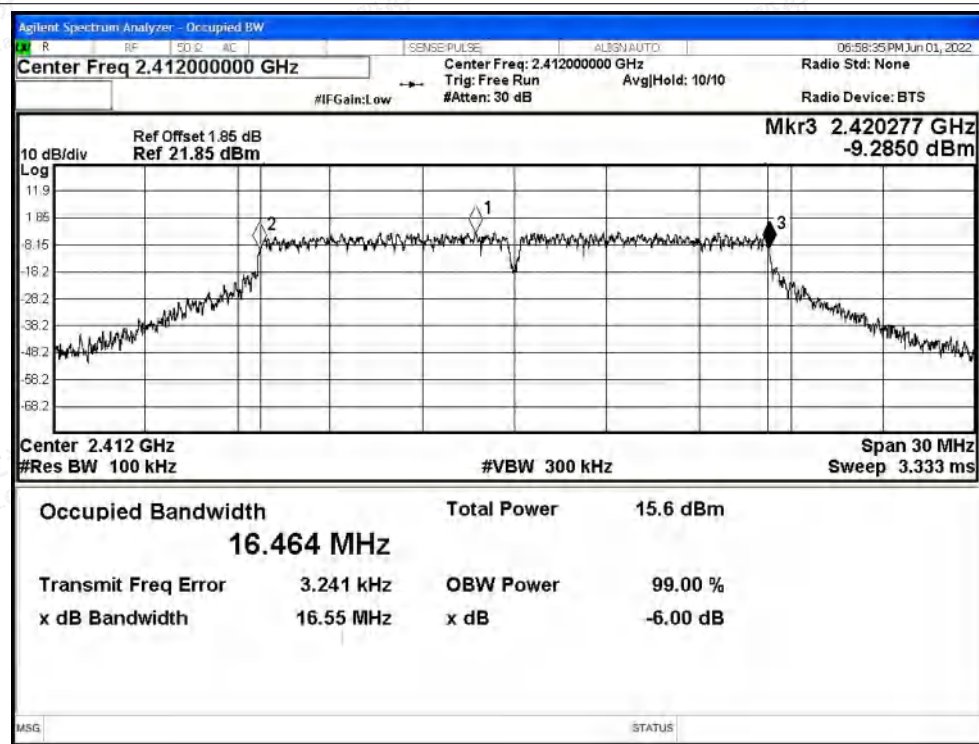
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6dB Bandwidth NVNT b 2462MHz Ant1



6dB Bandwidth NVNT g 2412MHz Ant1



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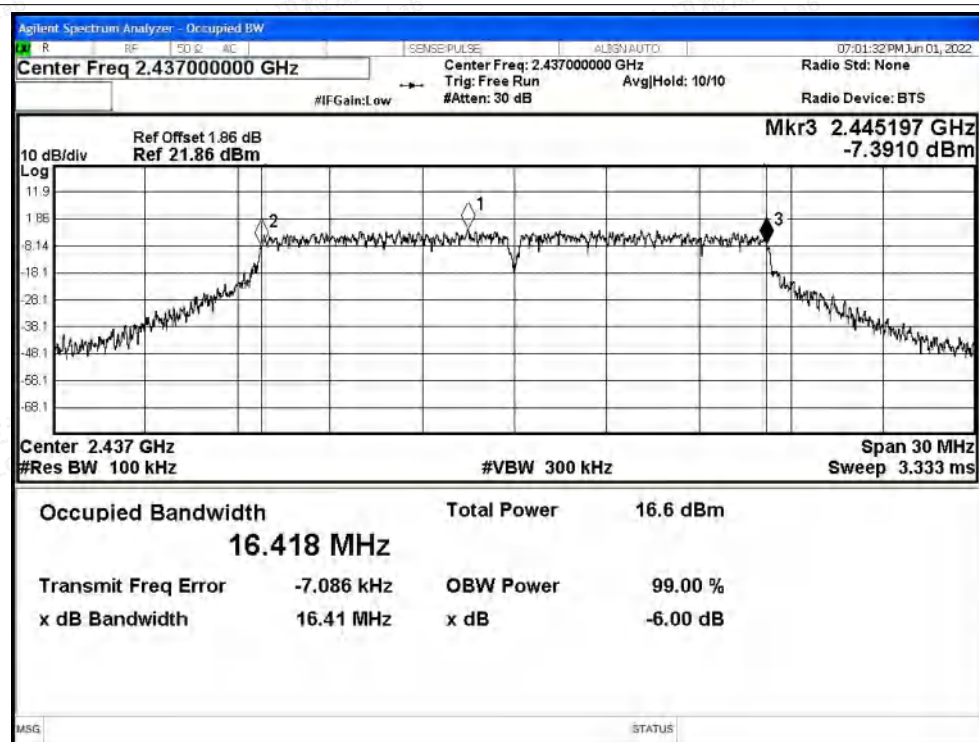
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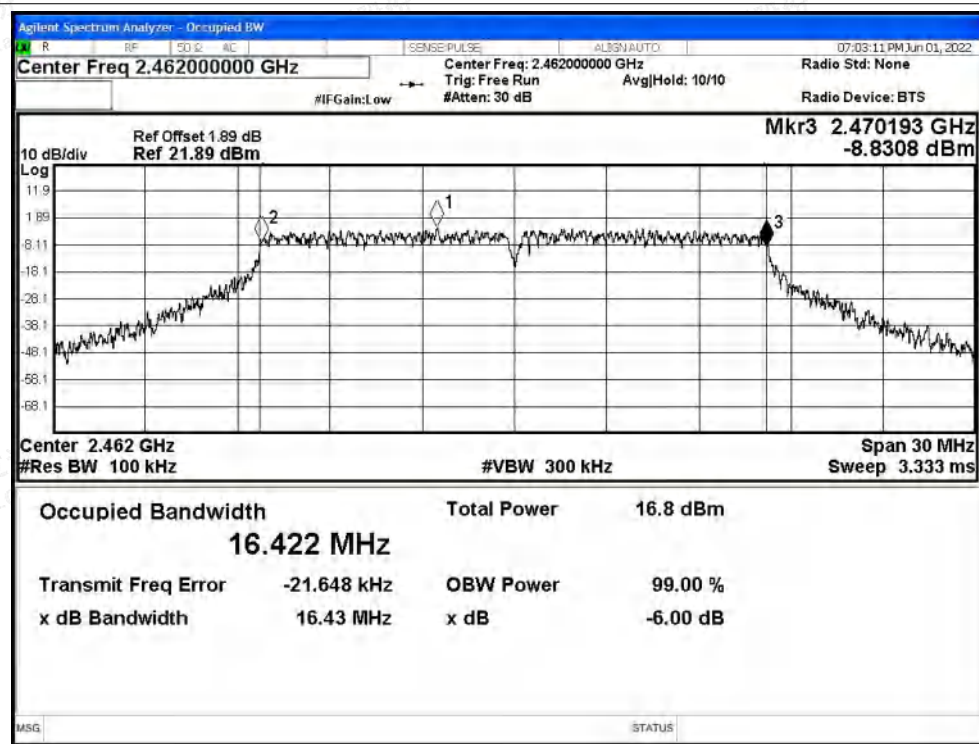
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6dB Bandwidth NVNT g 2437MHz Ant1



6dB Bandwidth NVNT g 2462MHz Ant1



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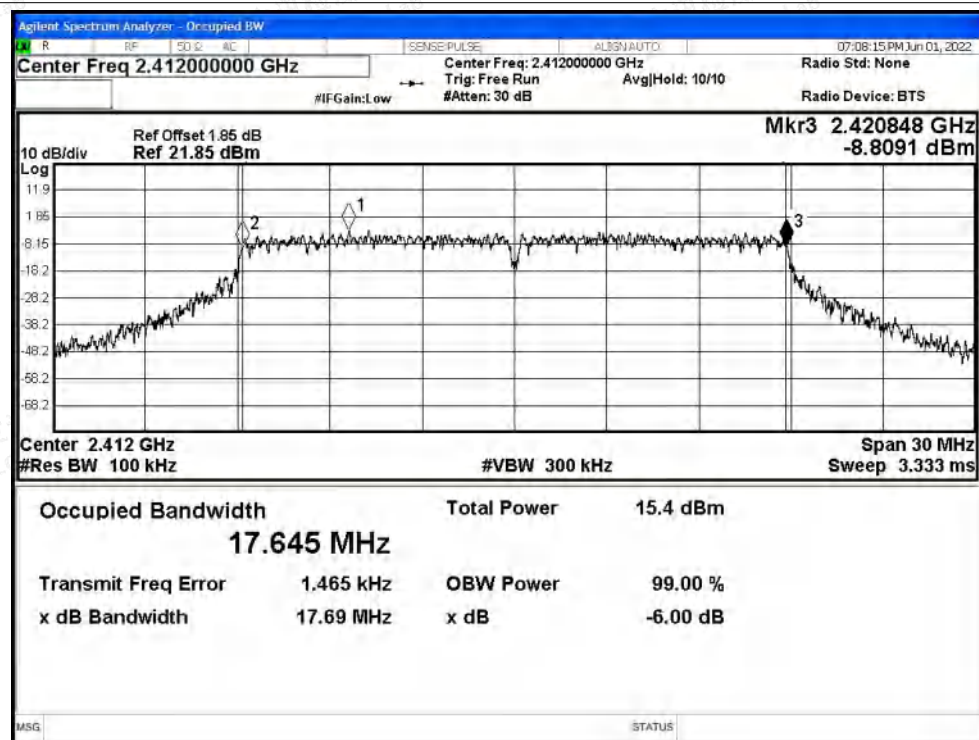
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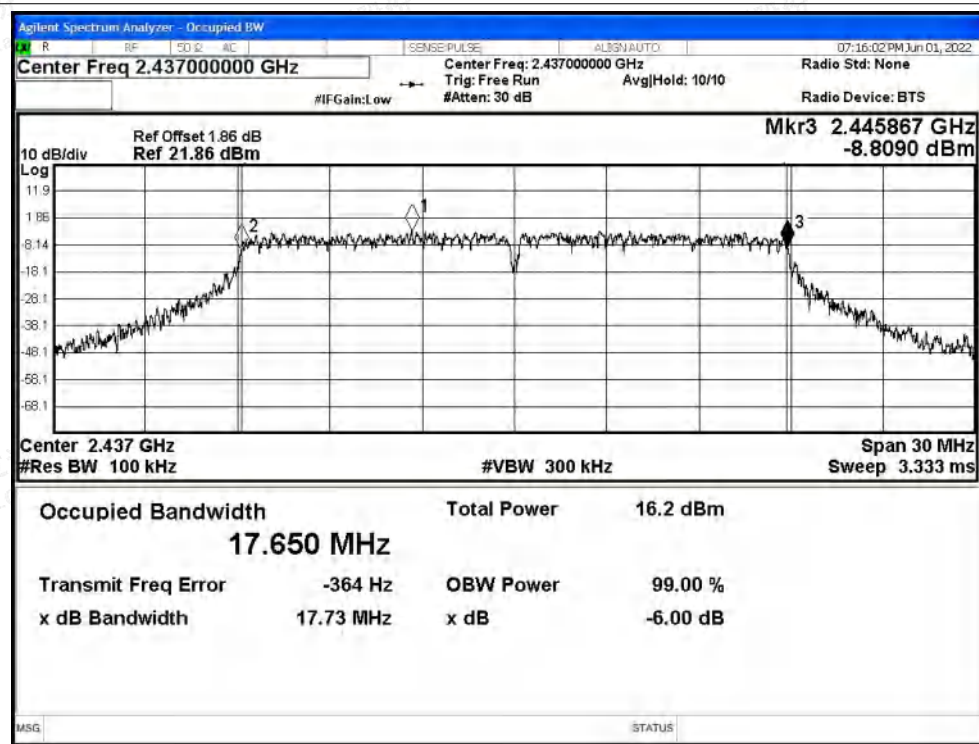
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6dB Bandwidth NVNT n20 2412MHz Ant1



6dB Bandwidth NVNT n20 2437MHz Ant1

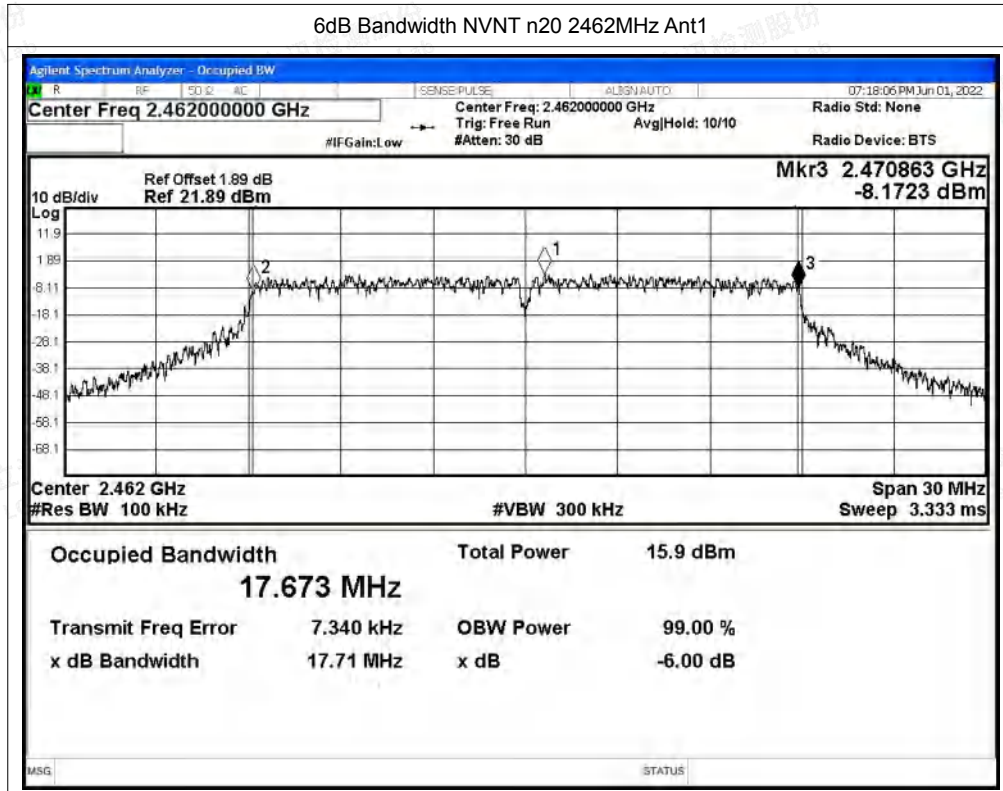


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B.2 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.952
NVNT	b	2437	Ant1	13.963
NVNT	b	2462	Ant1	13.946
NVNT	g	2412	Ant1	16.528
NVNT	g	2437	Ant1	16.581
NVNT	g	2462	Ant1	16.484
NVNT	n20	2412	Ant1	17.739
NVNT	n20	2437	Ant1	17.739
NVNT	n20	2462	Ant1	17.687



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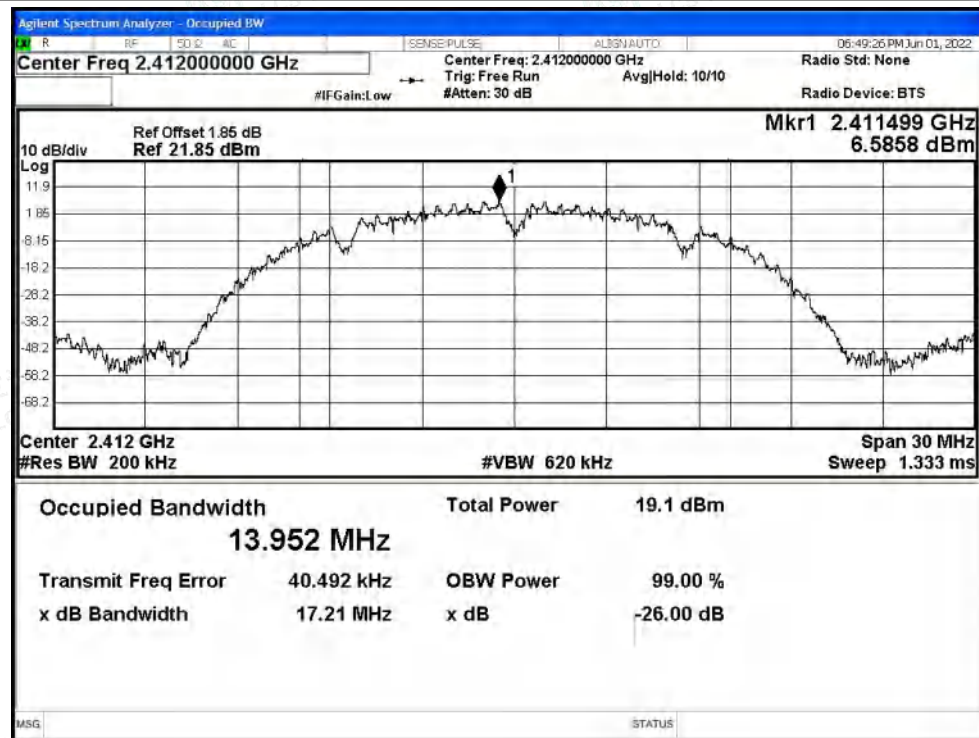
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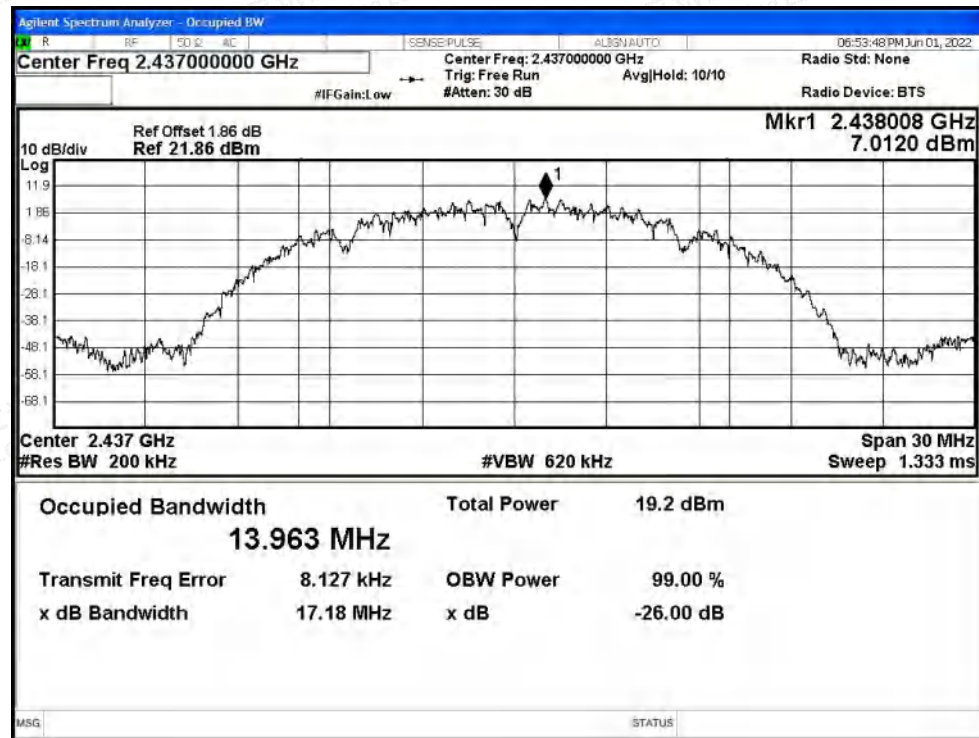


Test Graphs

OBW NVNT b 2412MHz Ant1



OBW NVNT b 2437MHz Ant1



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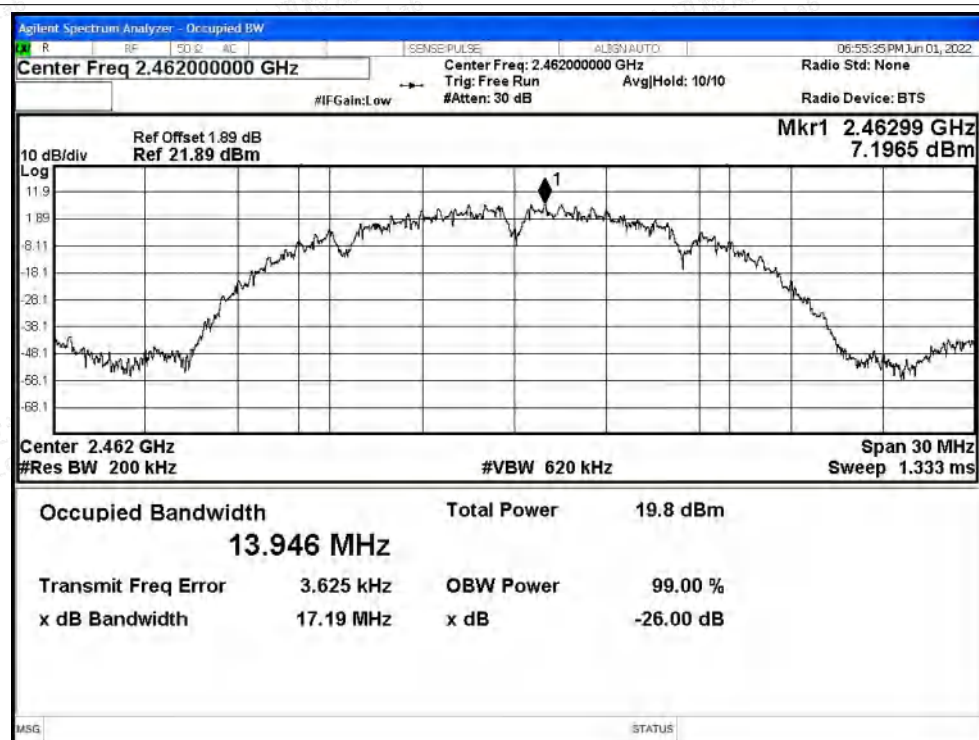
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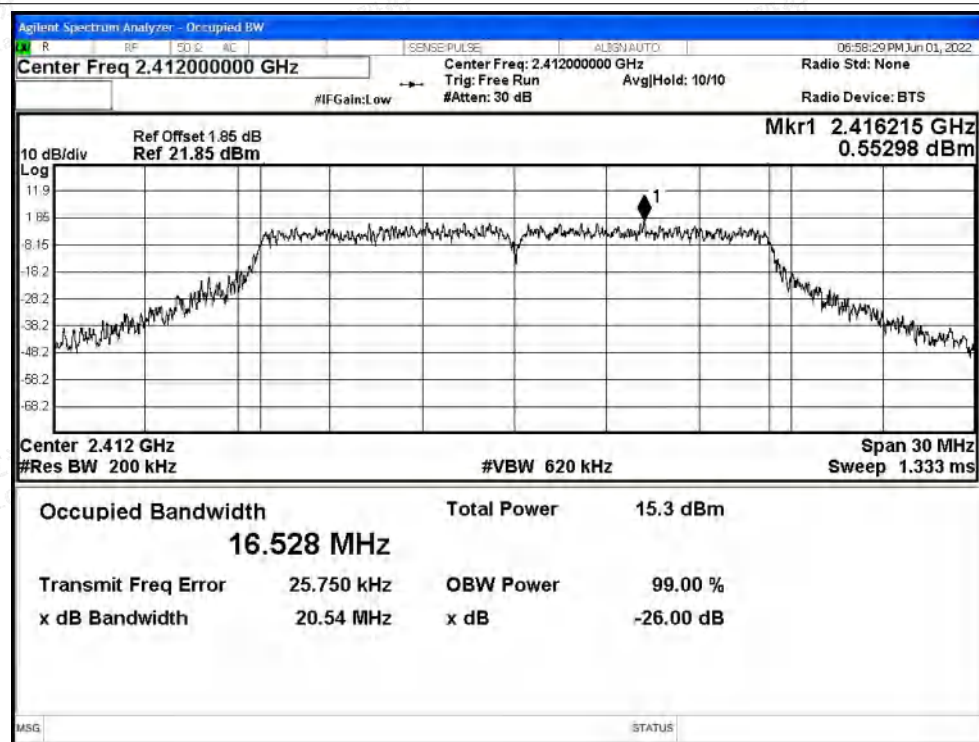
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OBW NVNT b 2462MHz Ant1



OBW NVNT g 2412MHz Ant1



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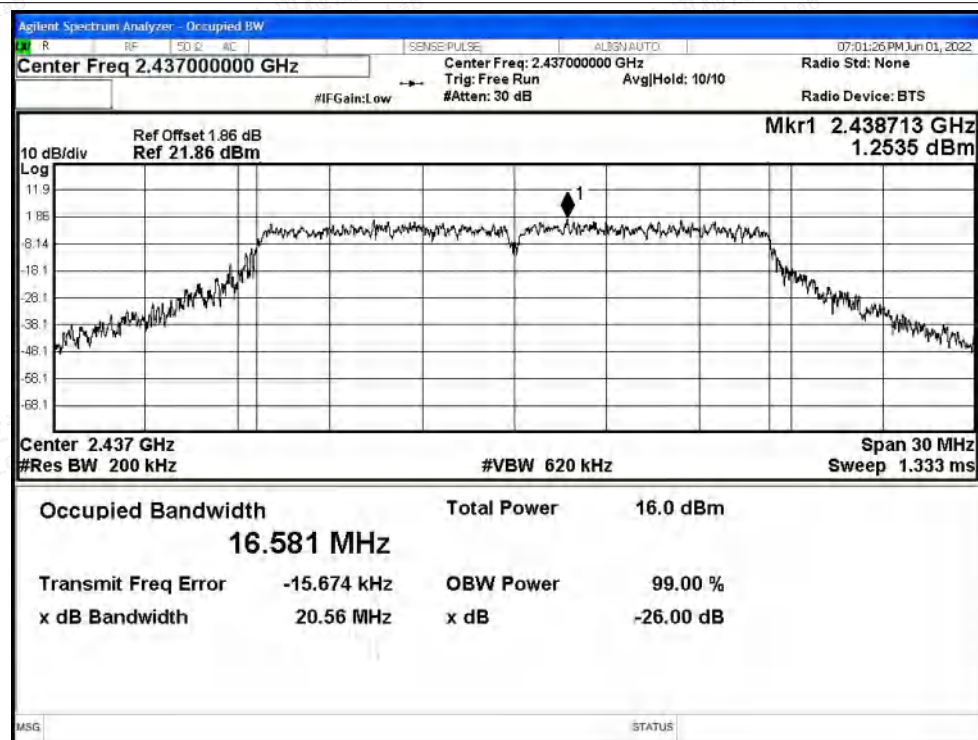
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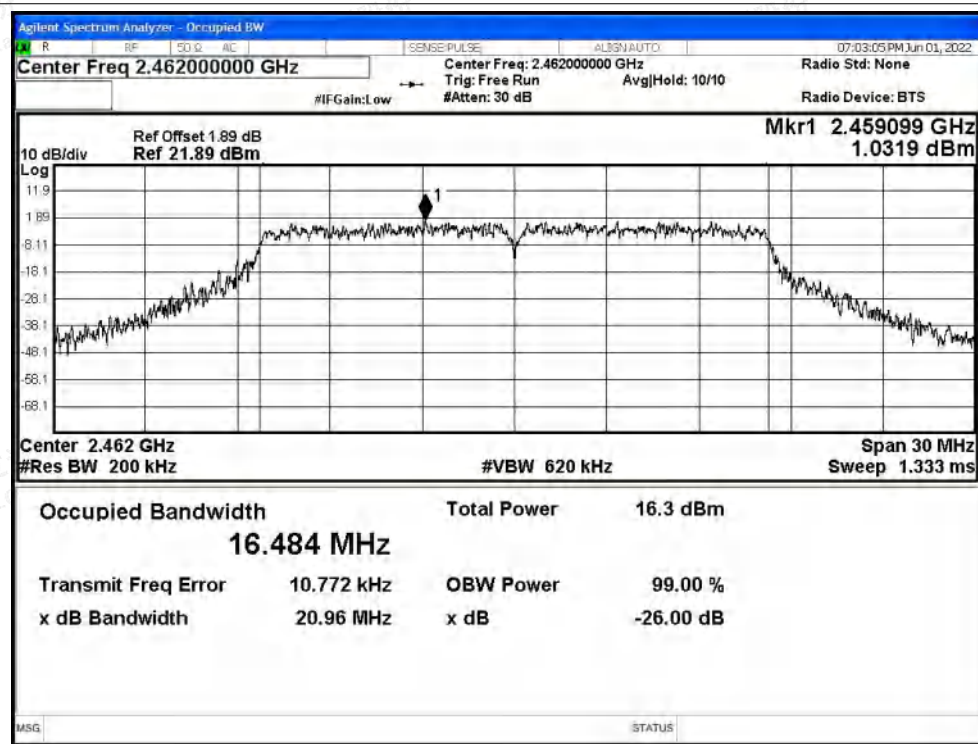
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OBW NVNT g 2437MHz Ant1



OBW NVNT g 2462MHz Ant1



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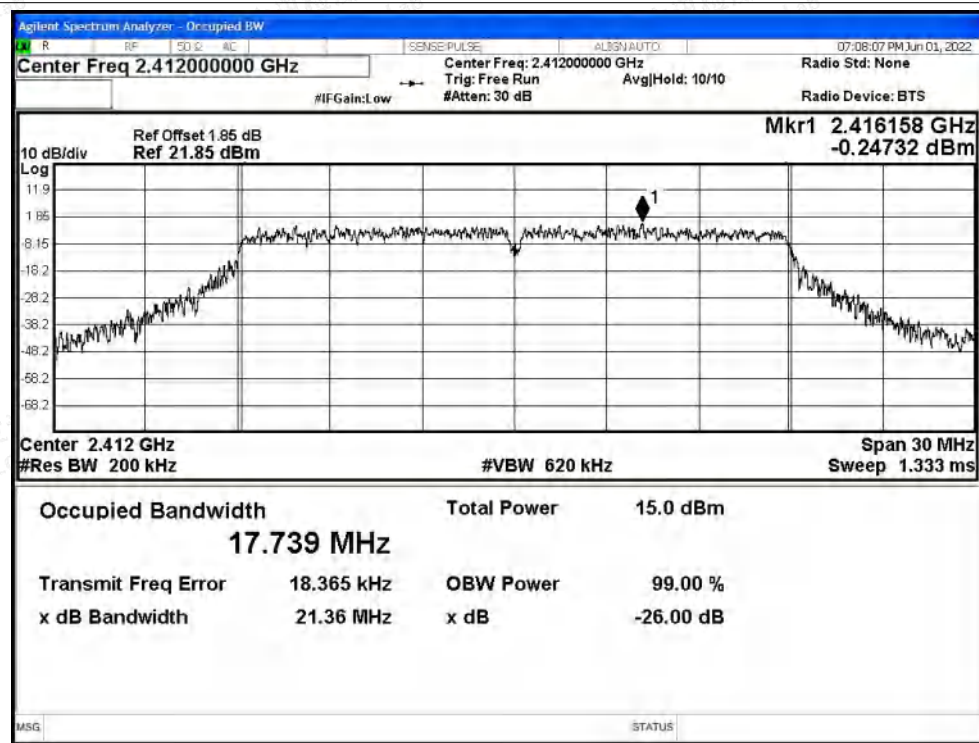
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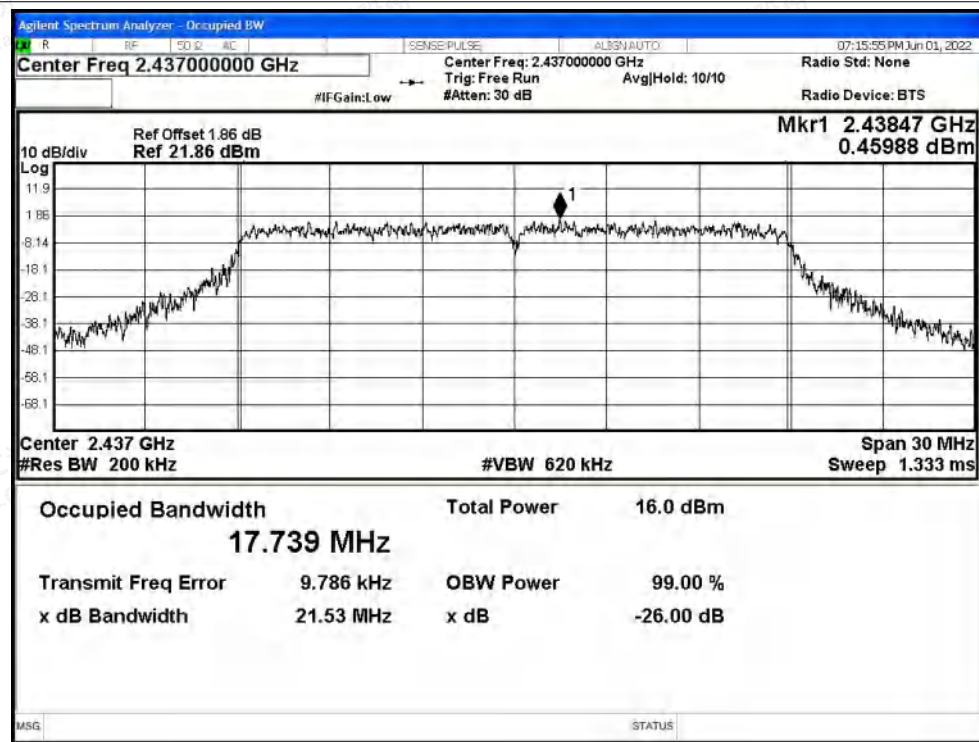
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OBW NVNT n20 2412MHz Ant1



OBW NVNT n20 2437MHz Ant1

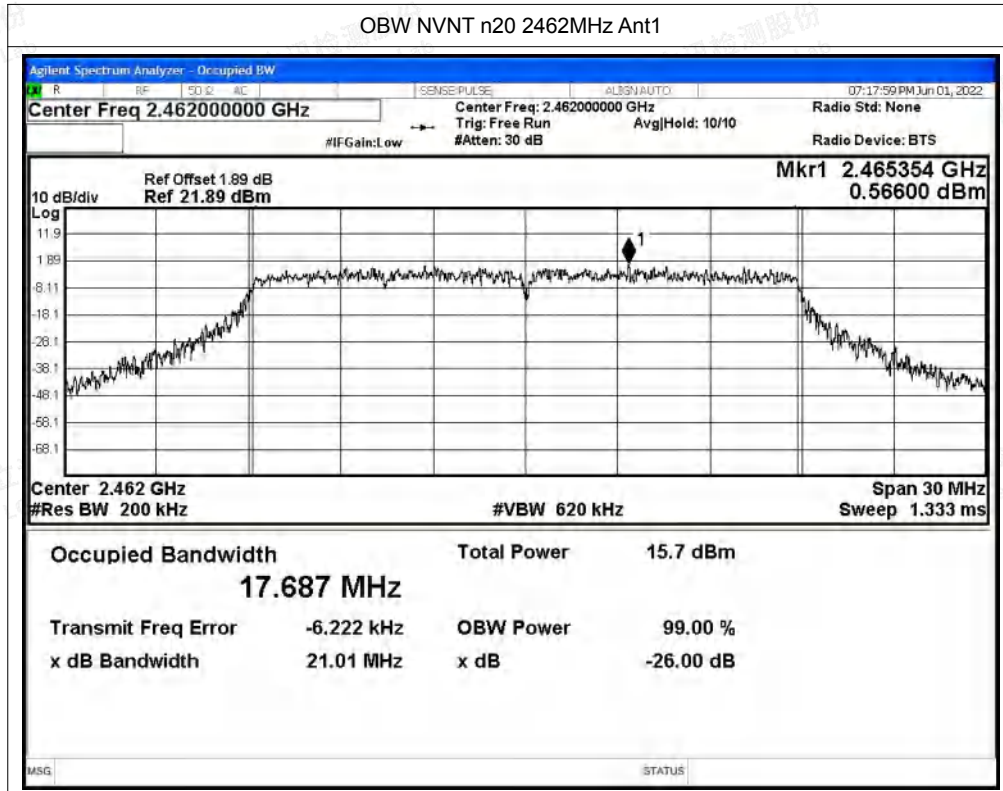


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B.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.26	30	Pass
NVNT	b	2437	Ant1	16.68	30	Pass
NVNT	b	2462	Ant1	17.03	30	Pass
NVNT	g	2412	Ant1	14.35	30	Pass
NVNT	g	2437	Ant1	15.41	30	Pass
NVNT	g	2462	Ant1	15.4	30	Pass
NVNT	n20	2412	Ant1	14.3	30	Pass
NVNT	n20	2437	Ant1	15.4	30	Pass
NVNT	n20	2462	Ant1	16.69	30	Pass



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B.4 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-14.36	0	-14.36	8	Pass
NVNT	b	2437	Ant1	-14.12	0	-14.12	8	Pass
NVNT	b	2462	Ant1	-13.72	0	-13.72	8	Pass
NVNT	g	2412	Ant1	-17.02	0	-17.02	8	Pass
NVNT	g	2437	Ant1	-15.83	0	-15.83	8	Pass
NVNT	g	2462	Ant1	-15.69	0	-15.69	8	Pass
NVNT	n20	2412	Ant1	-16.89	0	-16.89	8	Pass
NVNT	n20	2437	Ant1	-16.19	0	-16.19	8	Pass
NVNT	n20	2462	Ant1	-16.23	0	-16.23	8	Pass



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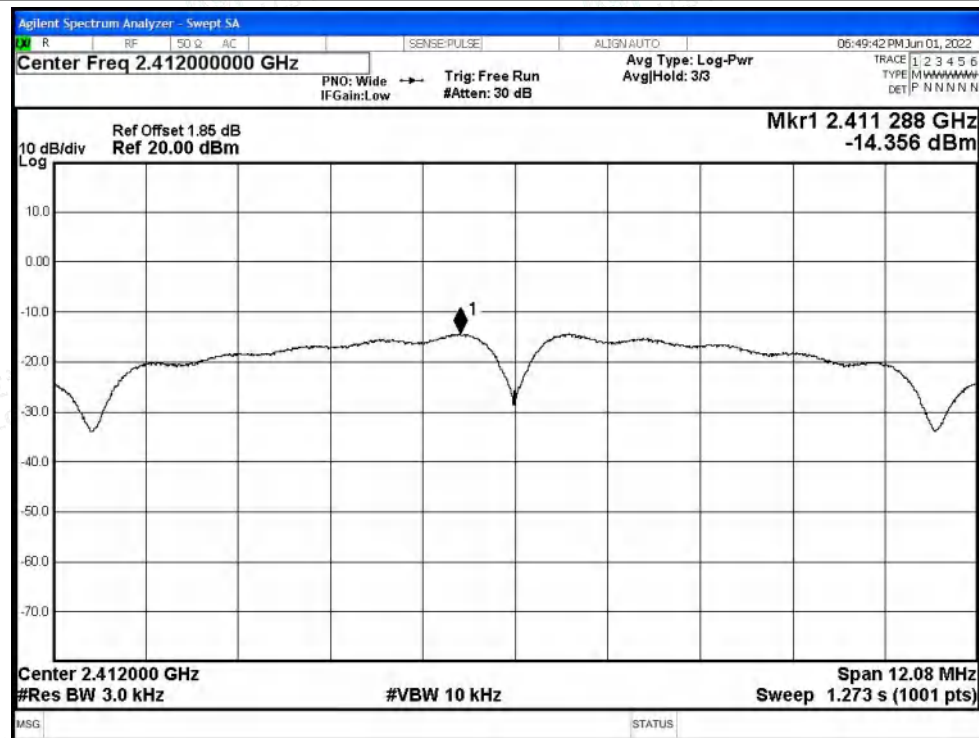
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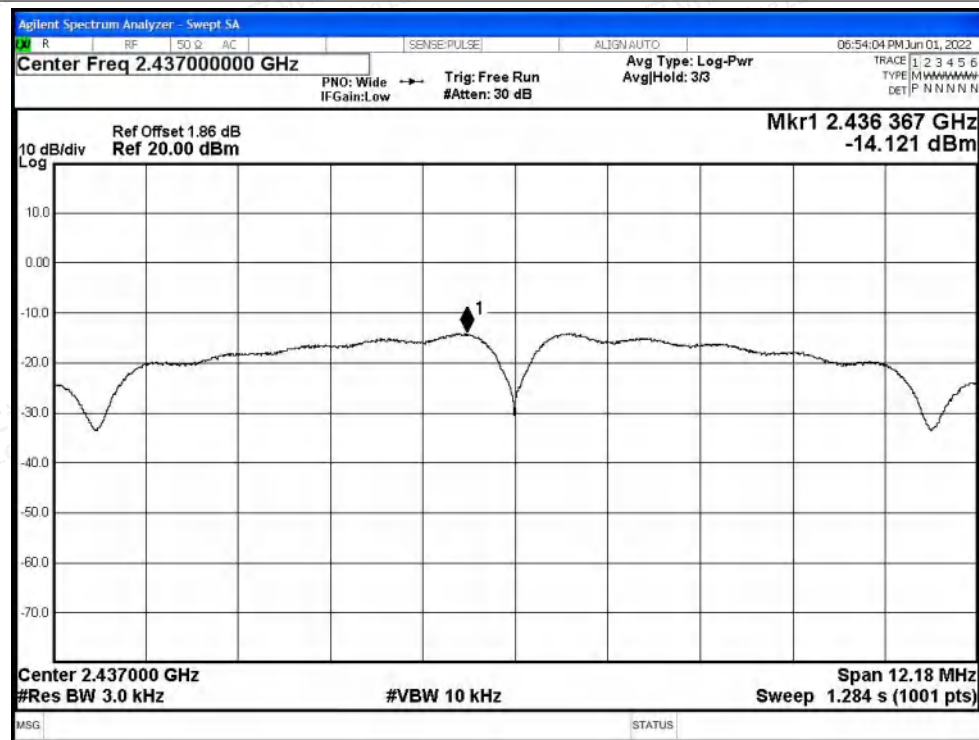


Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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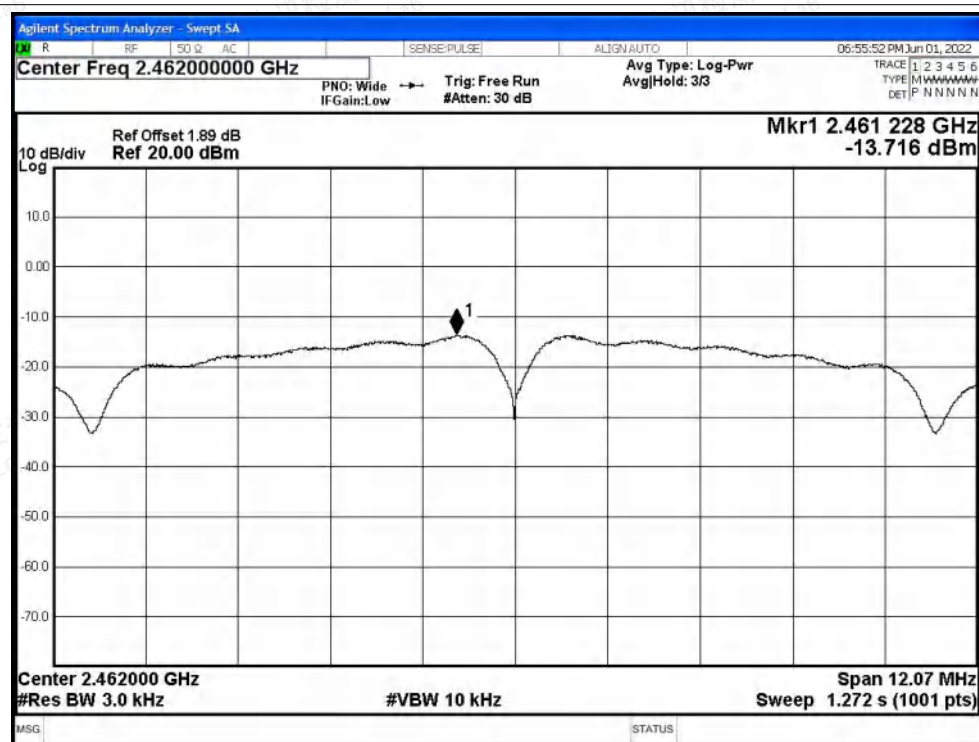
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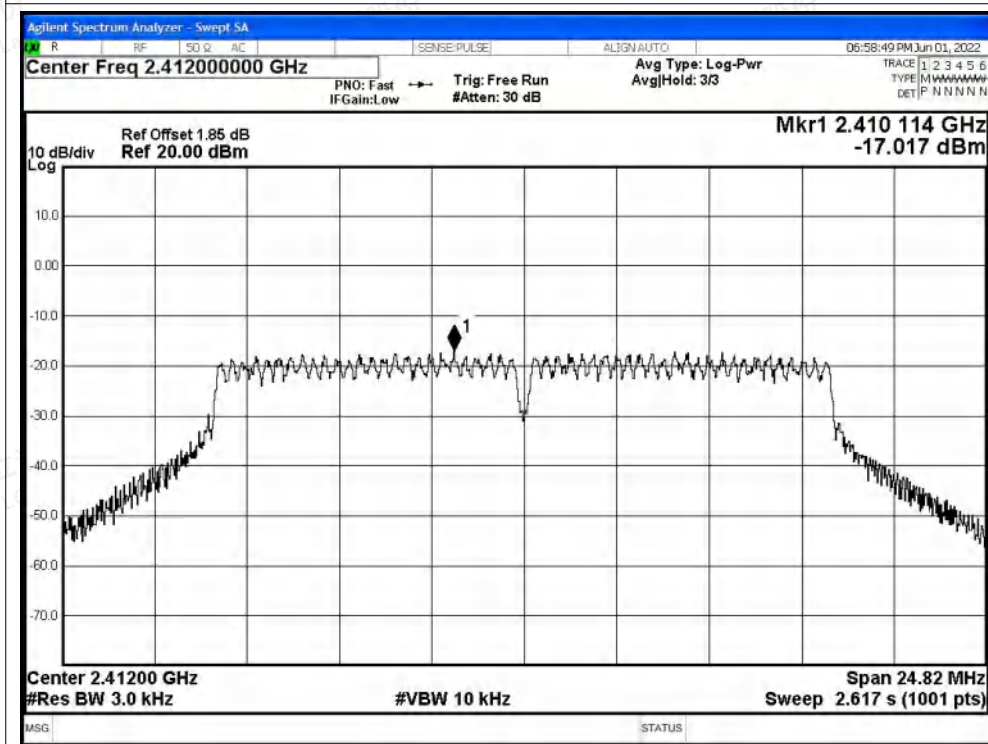
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1

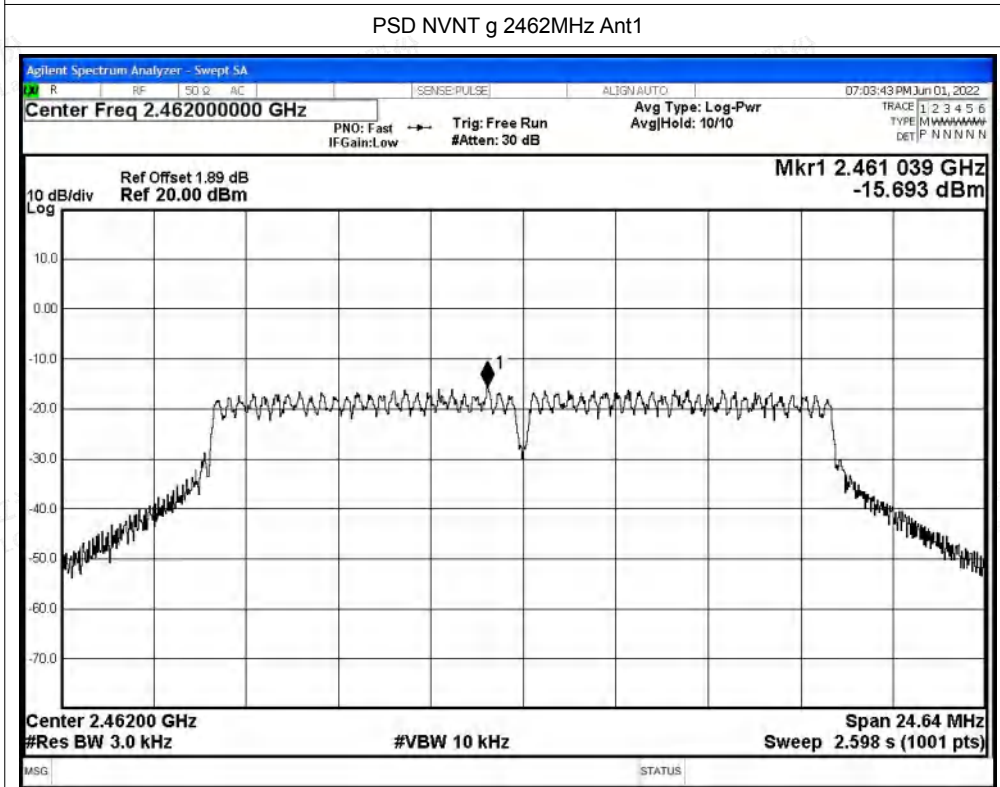
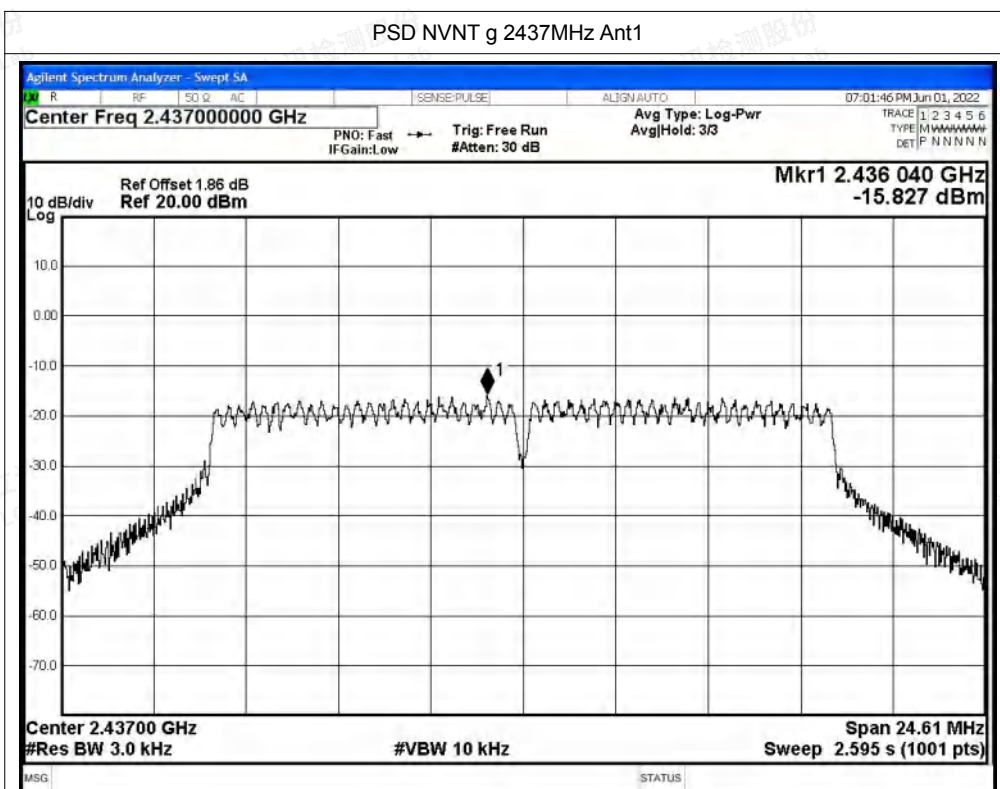


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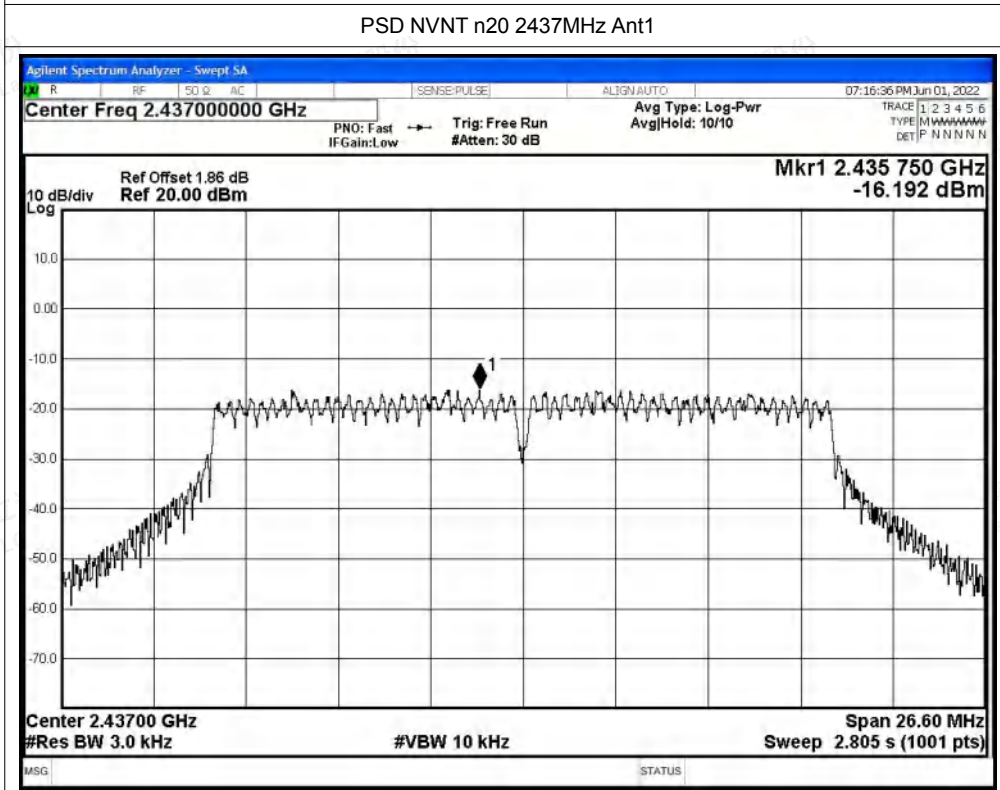
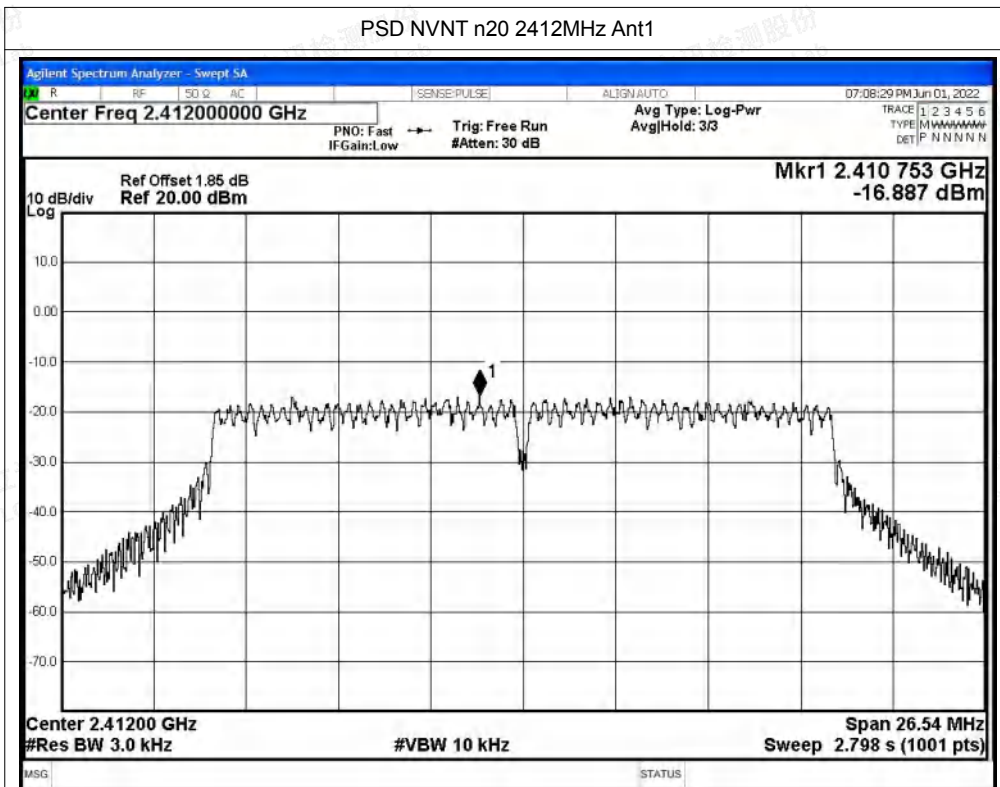


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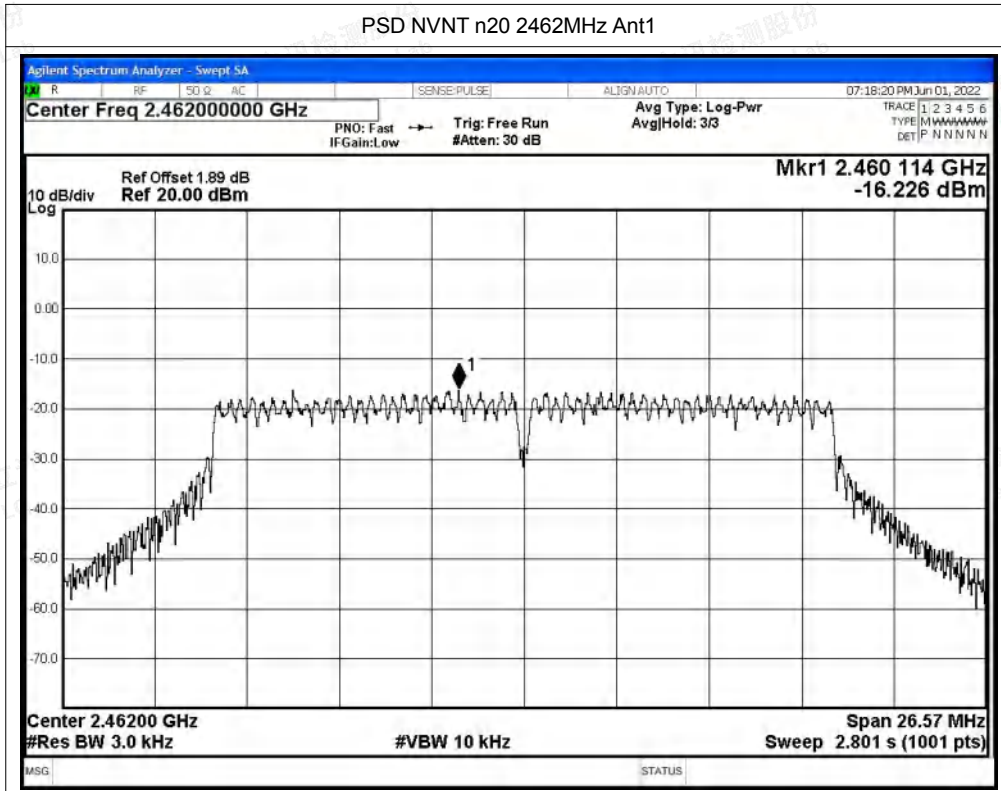


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B.5 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.04	-20	Pass
NVNT	b	2462	Ant1	-59.4	-20	Pass
NVNT	g	2412	Ant1	-33.89	-20	Pass
NVNT	g	2462	Ant1	-49.27	-20	Pass
NVNT	n20	2412	Ant1	-34.56	-20	Pass
NVNT	n20	2462	Ant1	-49.16	-20	Pass



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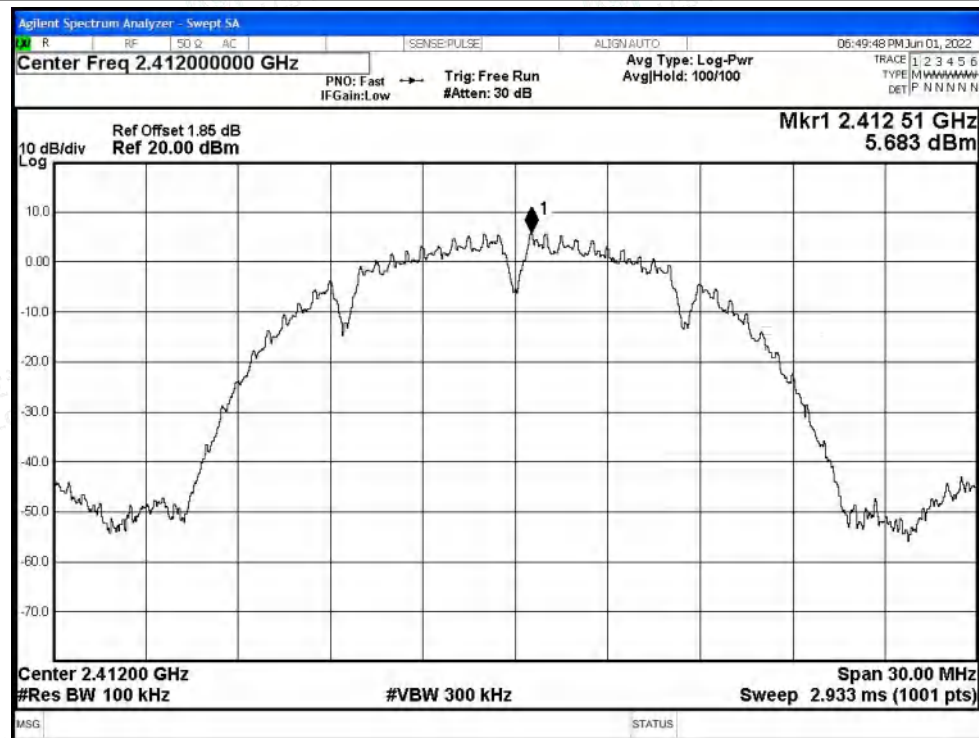
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Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



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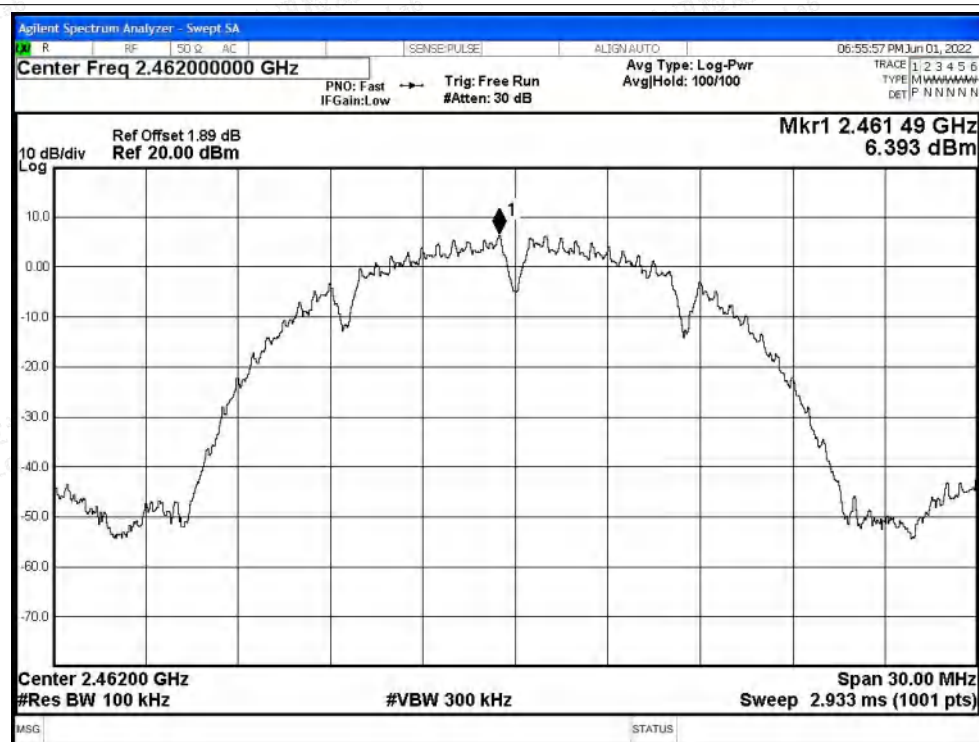
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Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission



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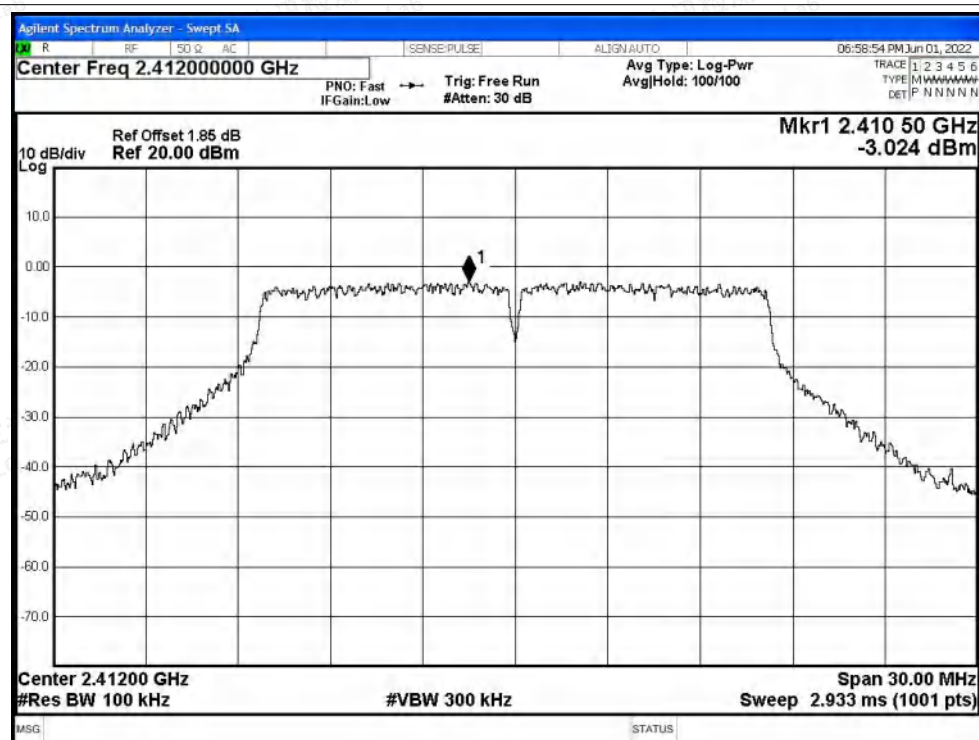
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Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



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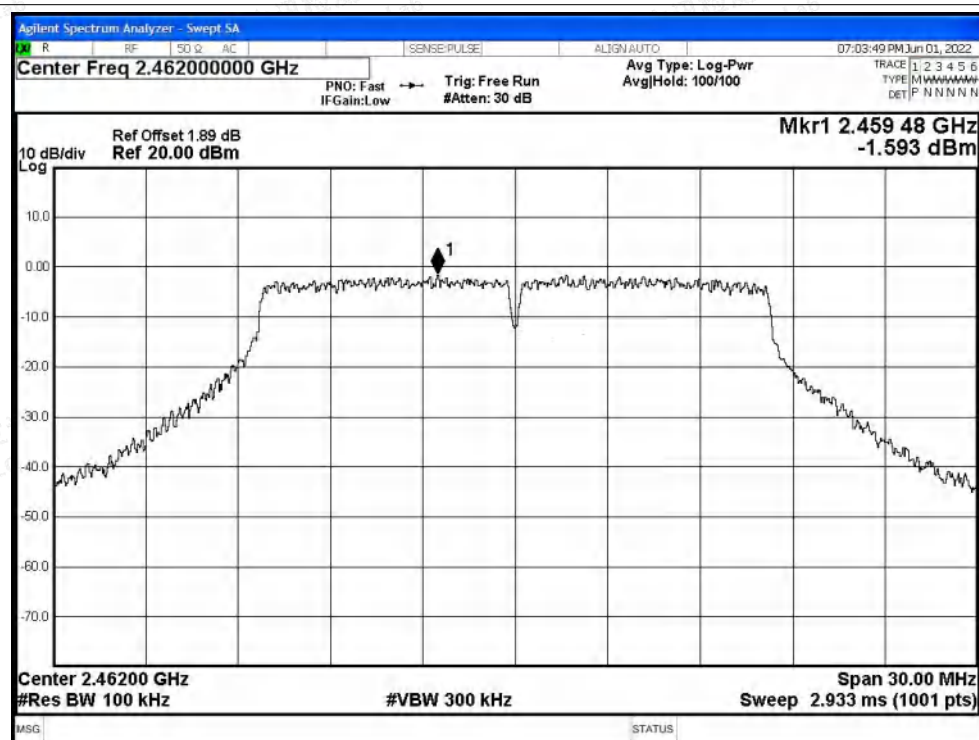
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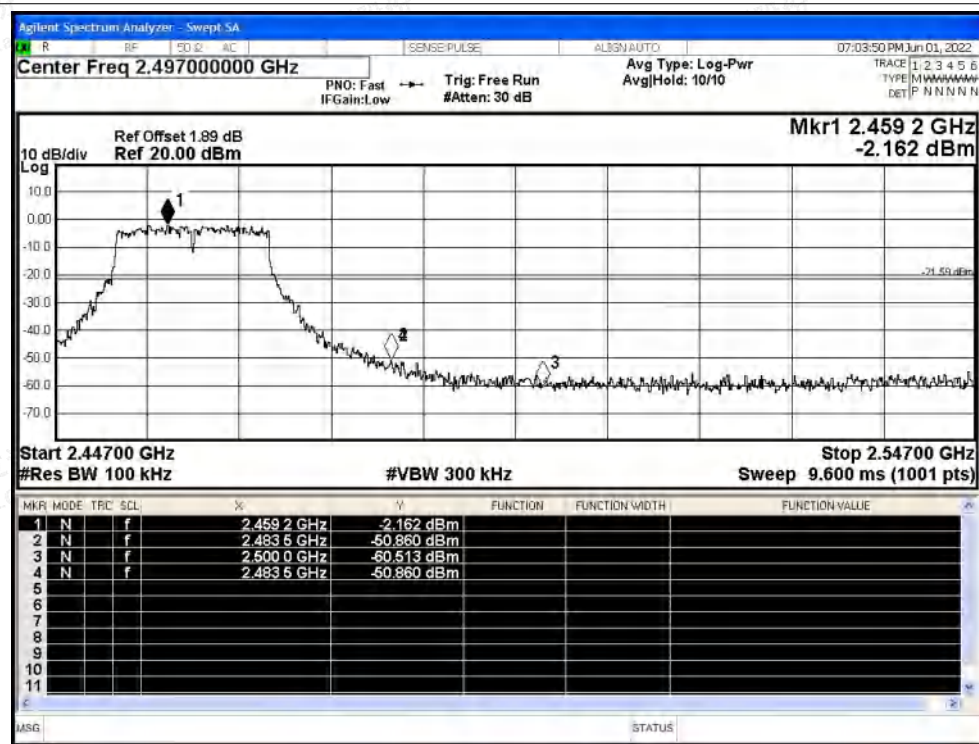
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Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



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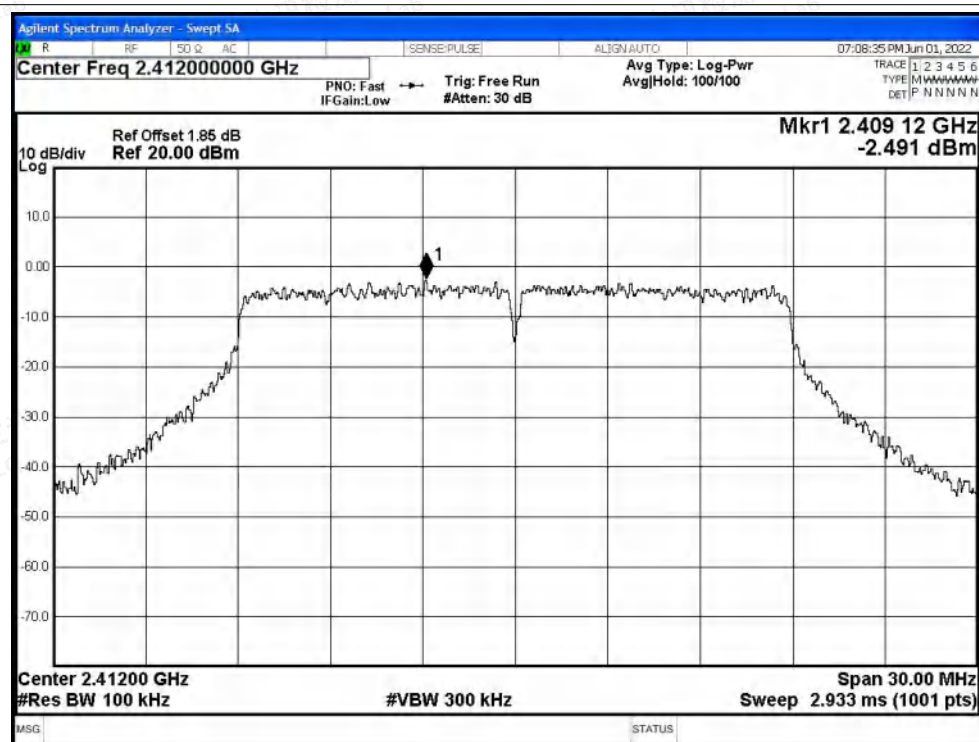
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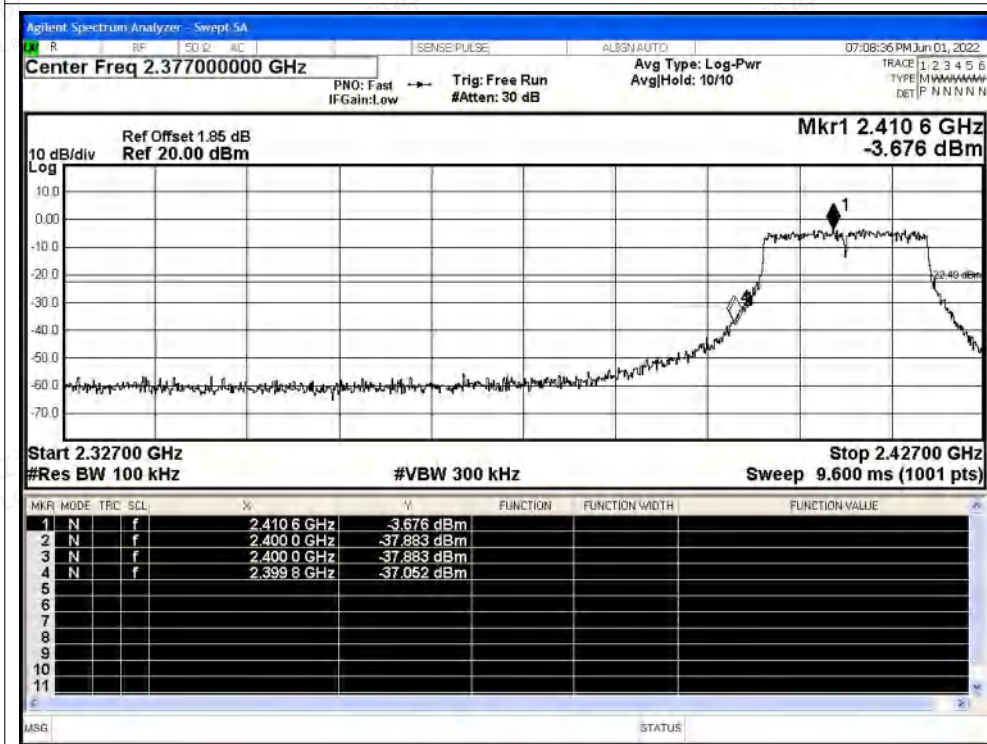
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Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



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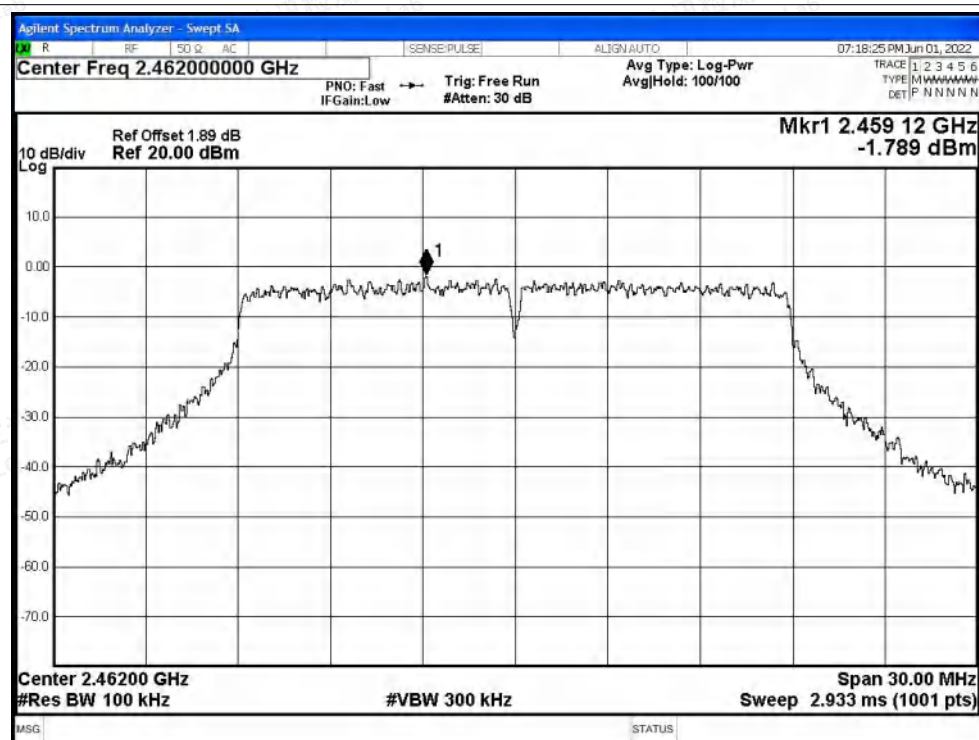
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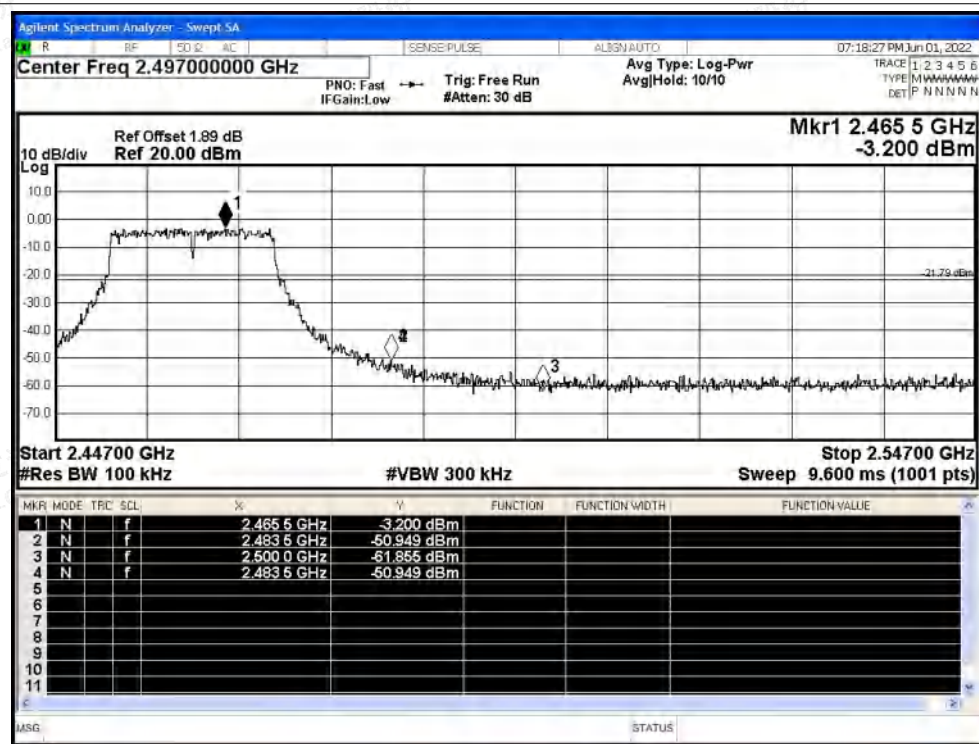
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Band Edge NVNT n20 2462MHz Ant1 Ref



Band Edge NVNT n20 2462MHz Ant1 Emission



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B.6 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.16	-20	Pass
NVNT	b	2437	Ant1	-51.56	-20	Pass
NVNT	b	2462	Ant1	-51.39	-20	Pass
NVNT	g	2412	Ant1	-43.22	-20	Pass
NVNT	g	2437	Ant1	-44.22	-20	Pass
NVNT	g	2462	Ant1	-43.6	-20	Pass
NVNT	n20	2412	Ant1	-43.46	-20	Pass
NVNT	n20	2437	Ant1	-44.66	-20	Pass
NVNT	n20	2462	Ant1	-44.57	-20	Pass



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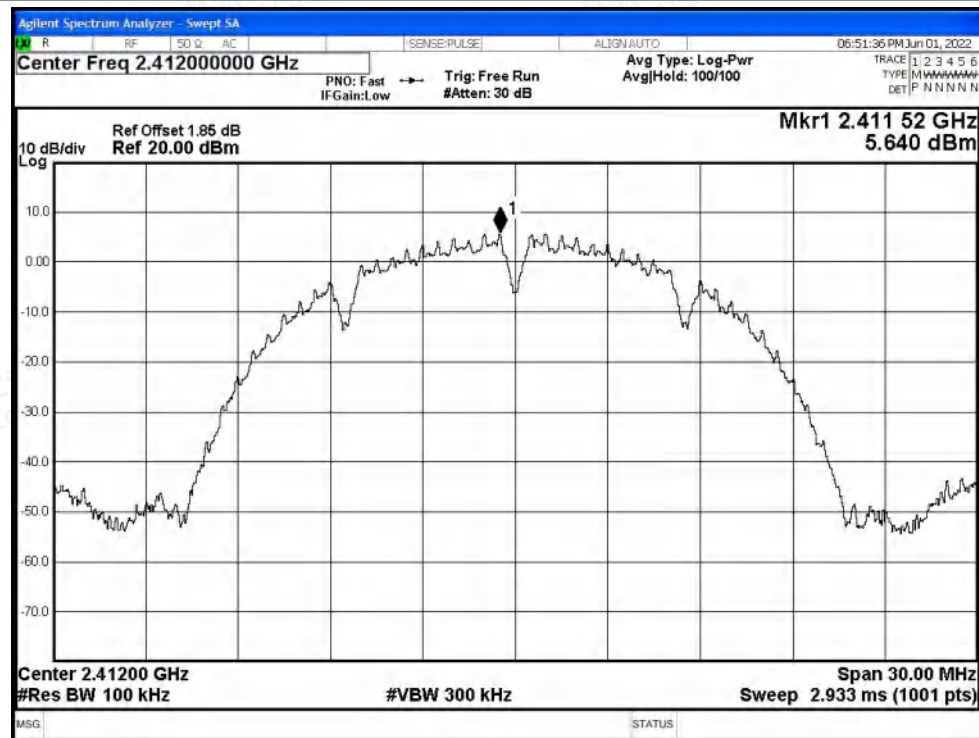
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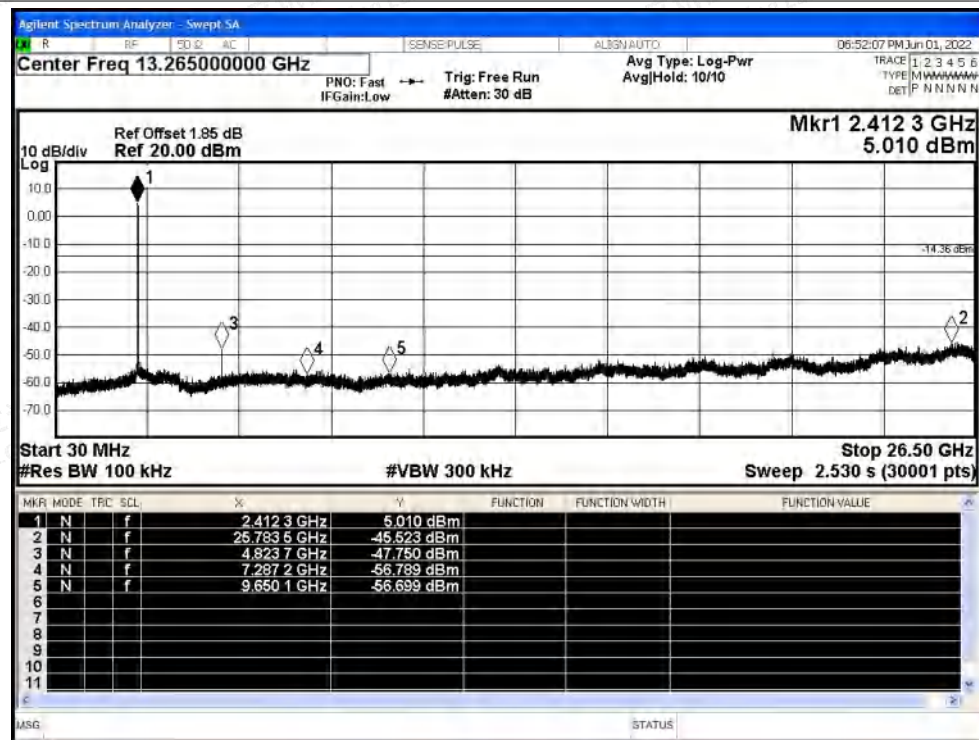


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



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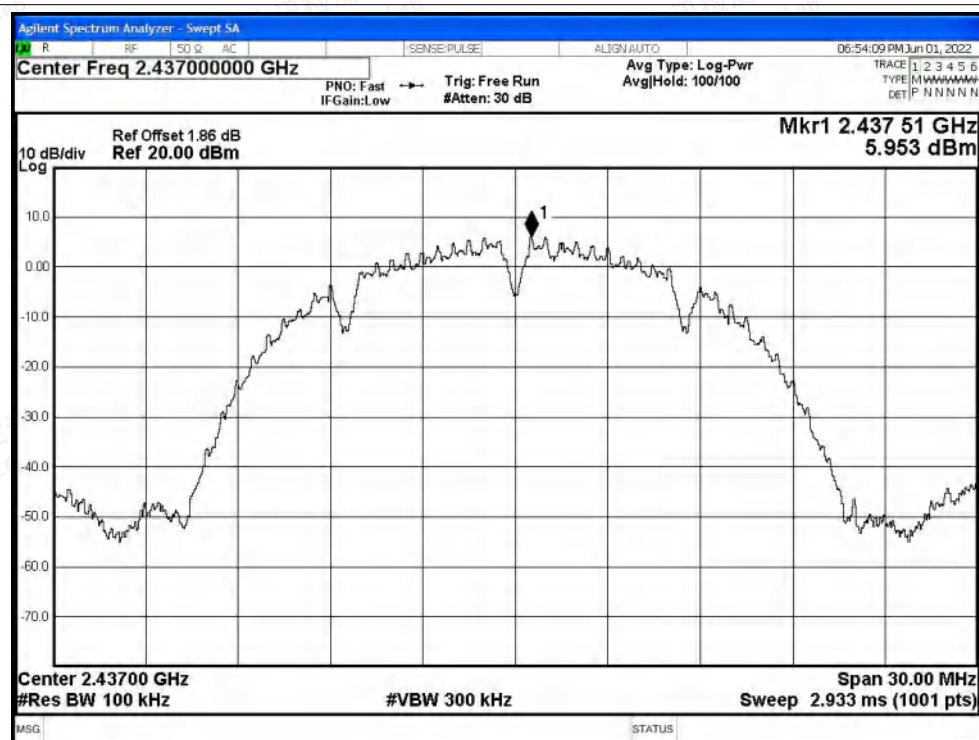
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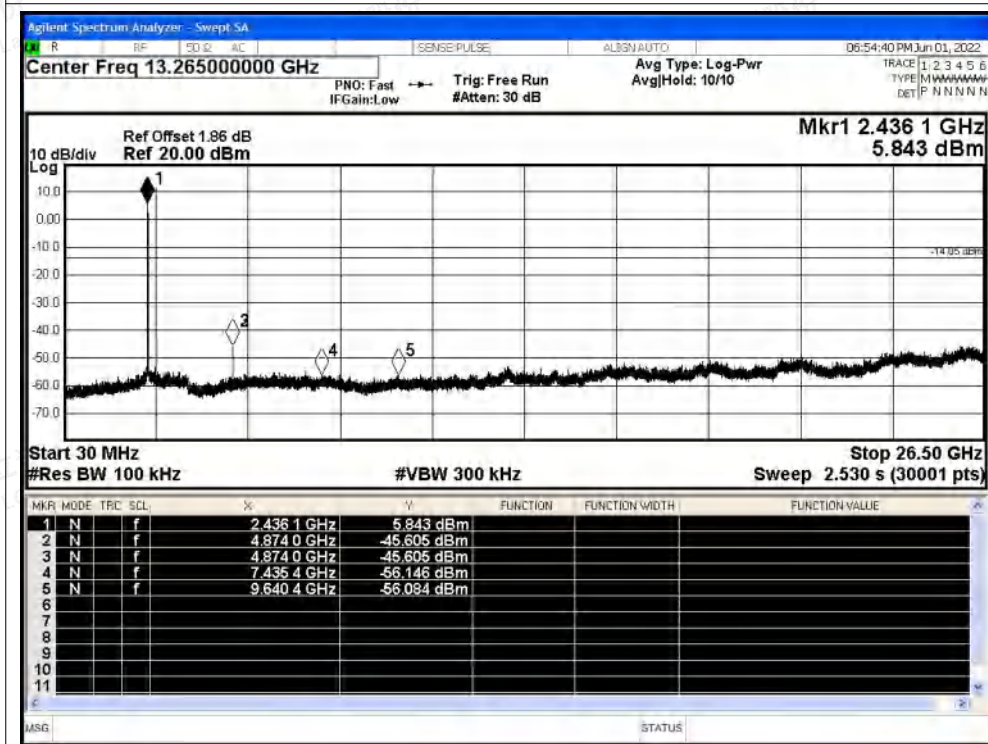
Scan code to check authenticity



Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



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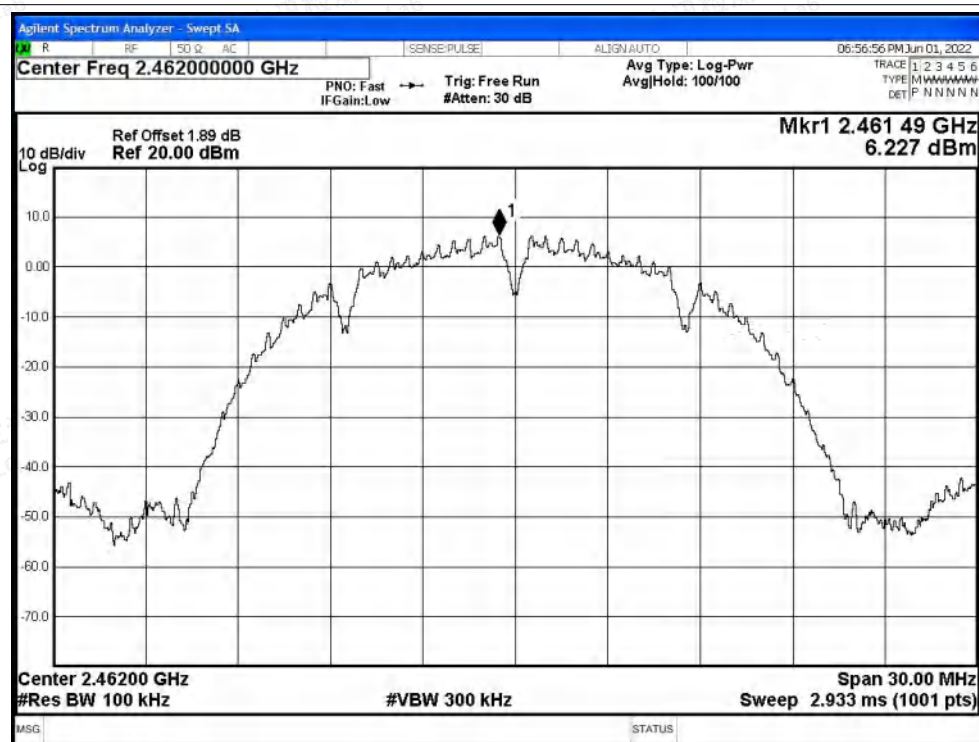
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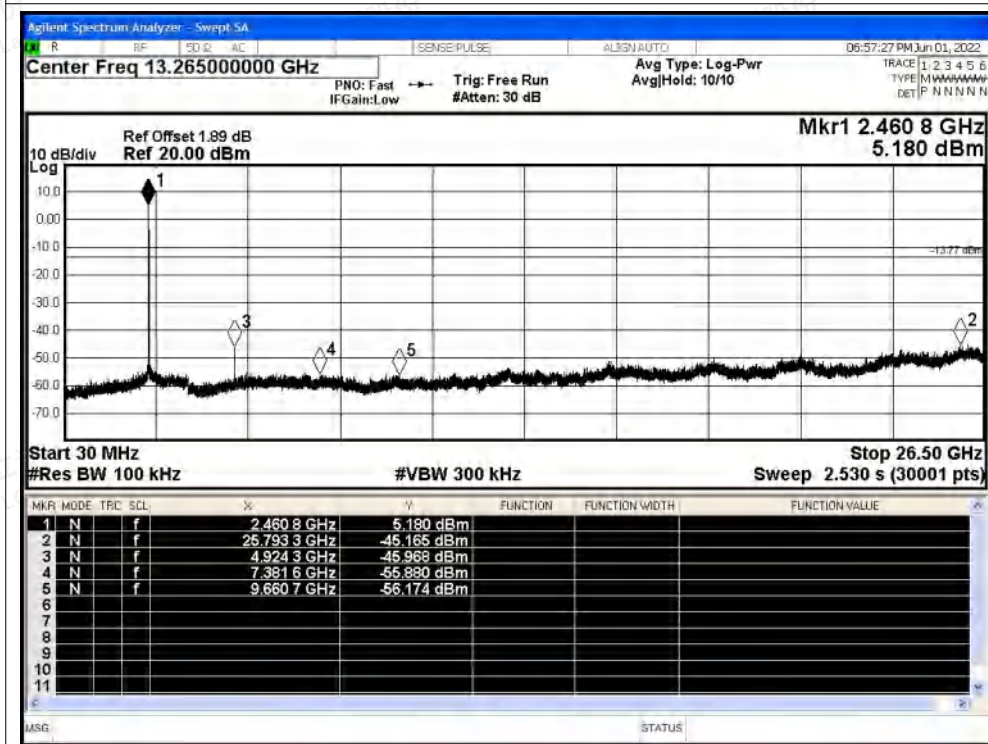
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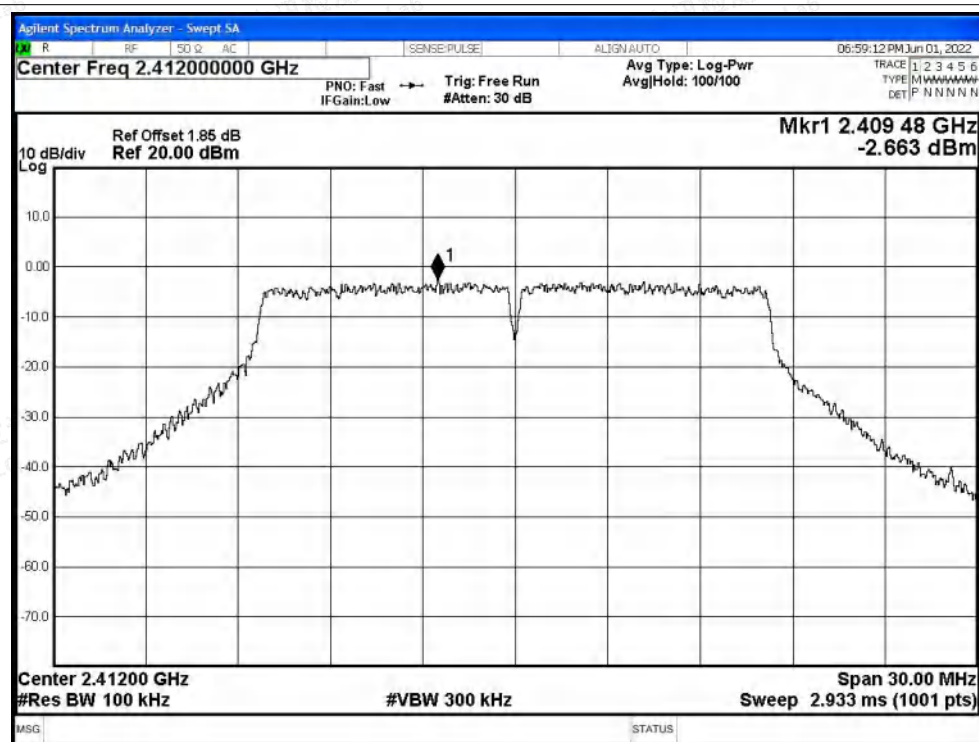
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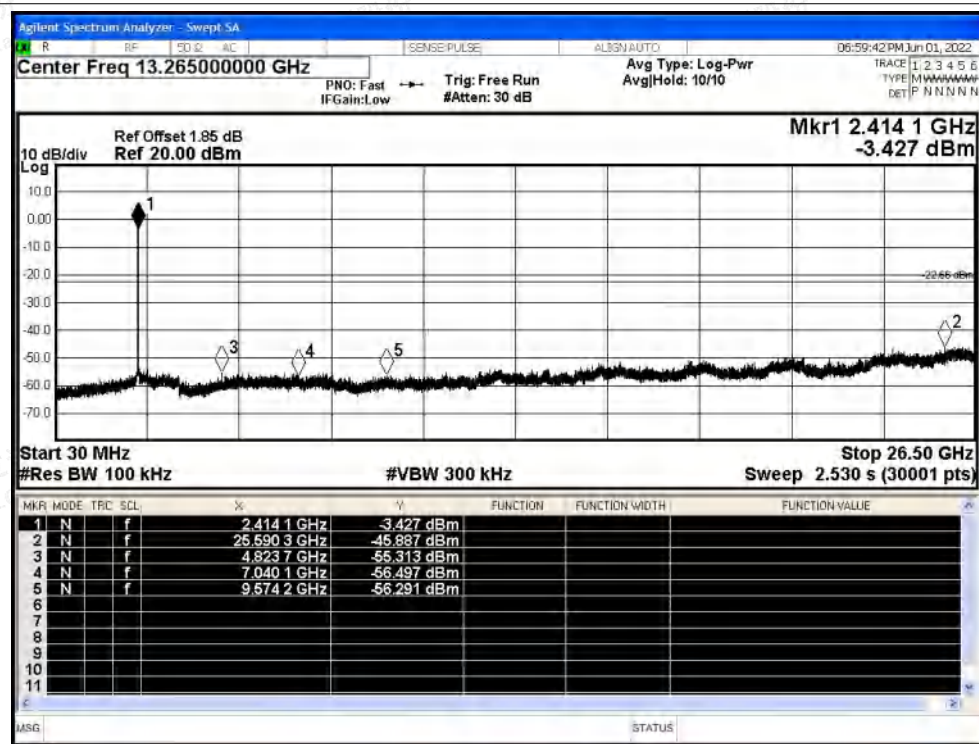
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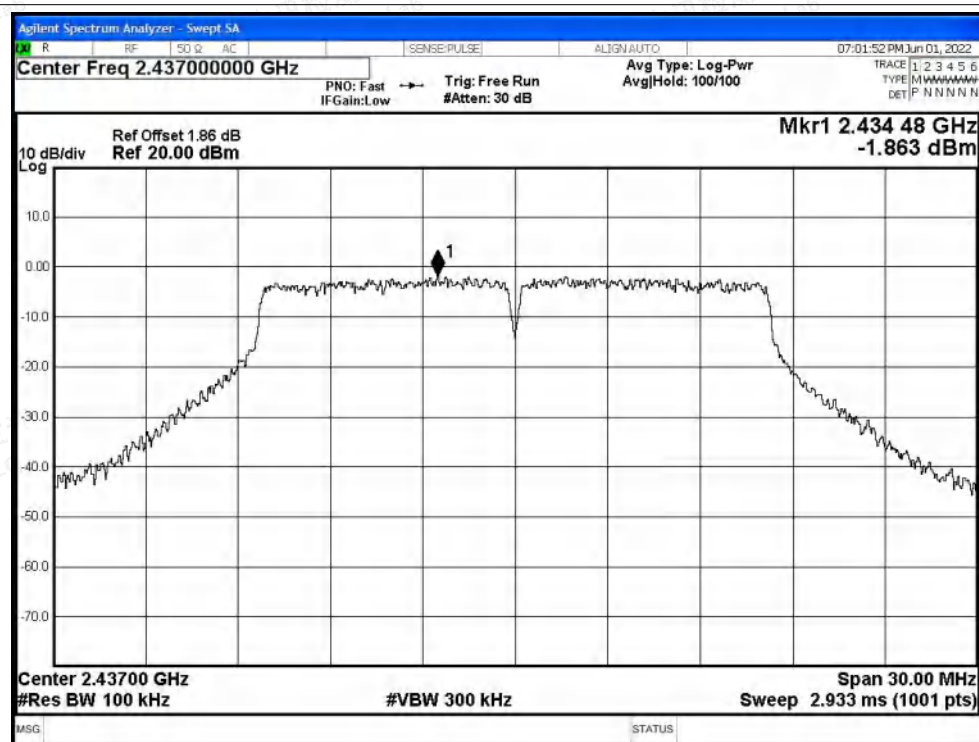
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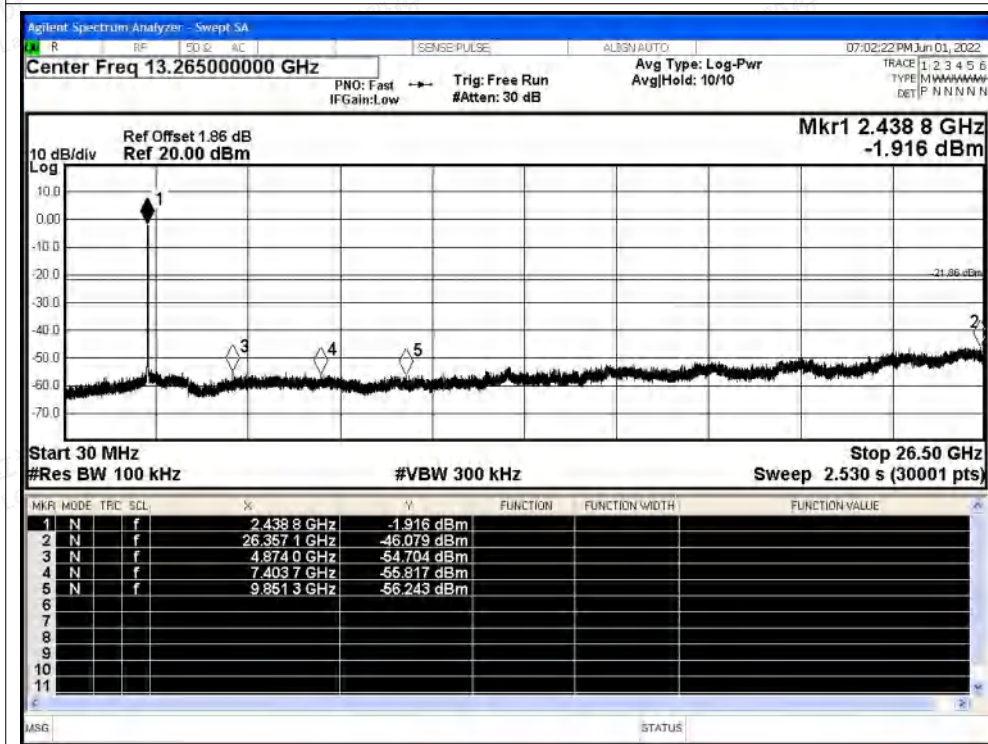
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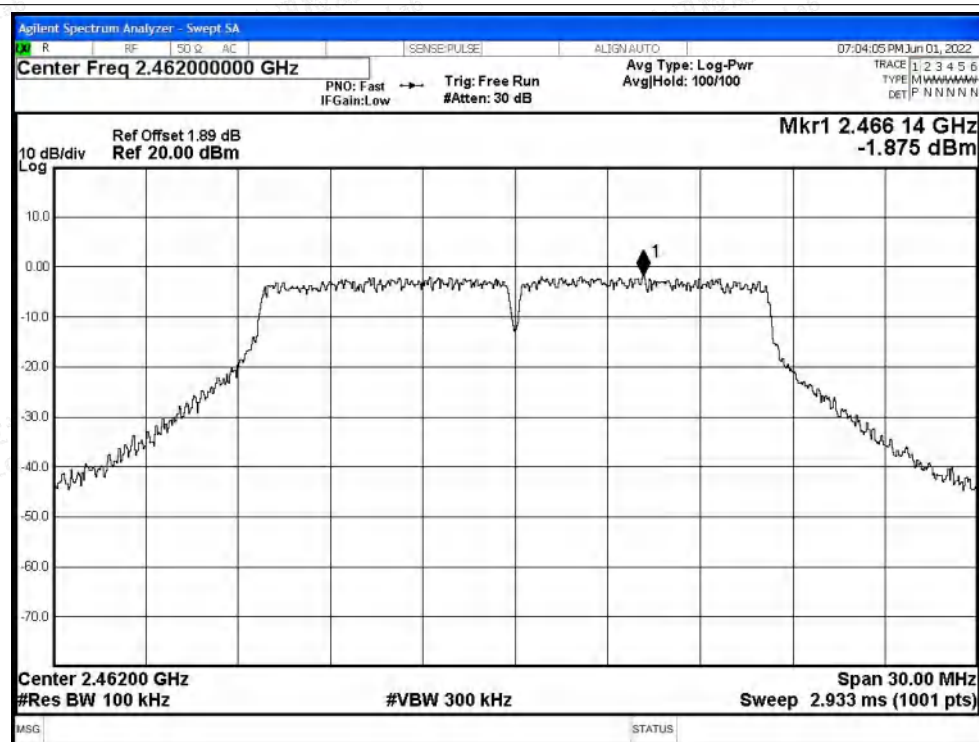
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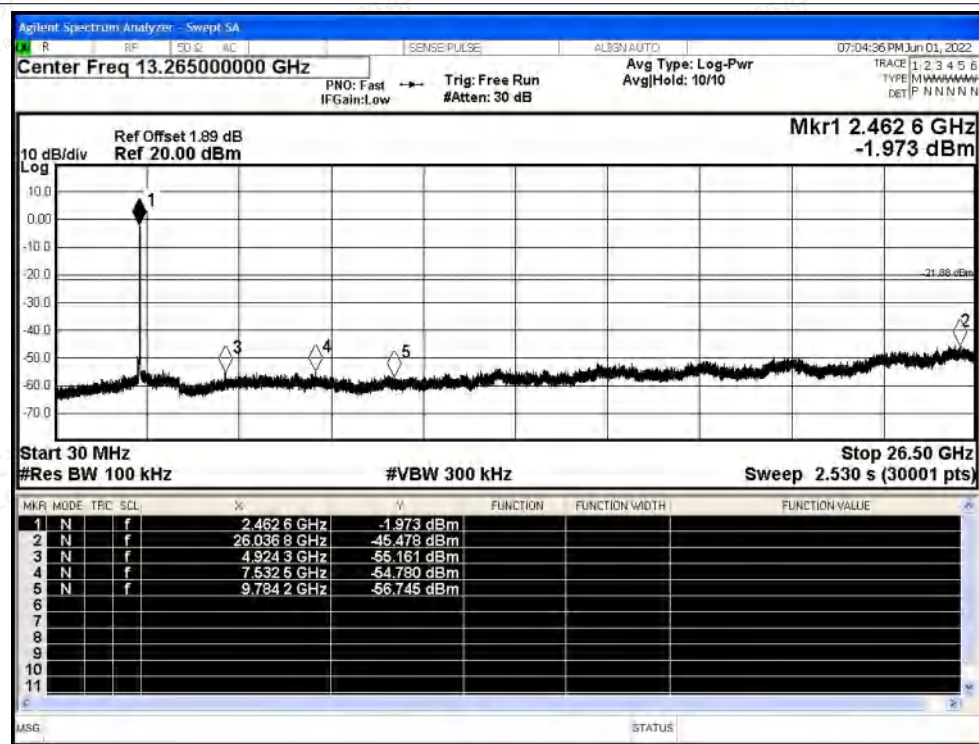
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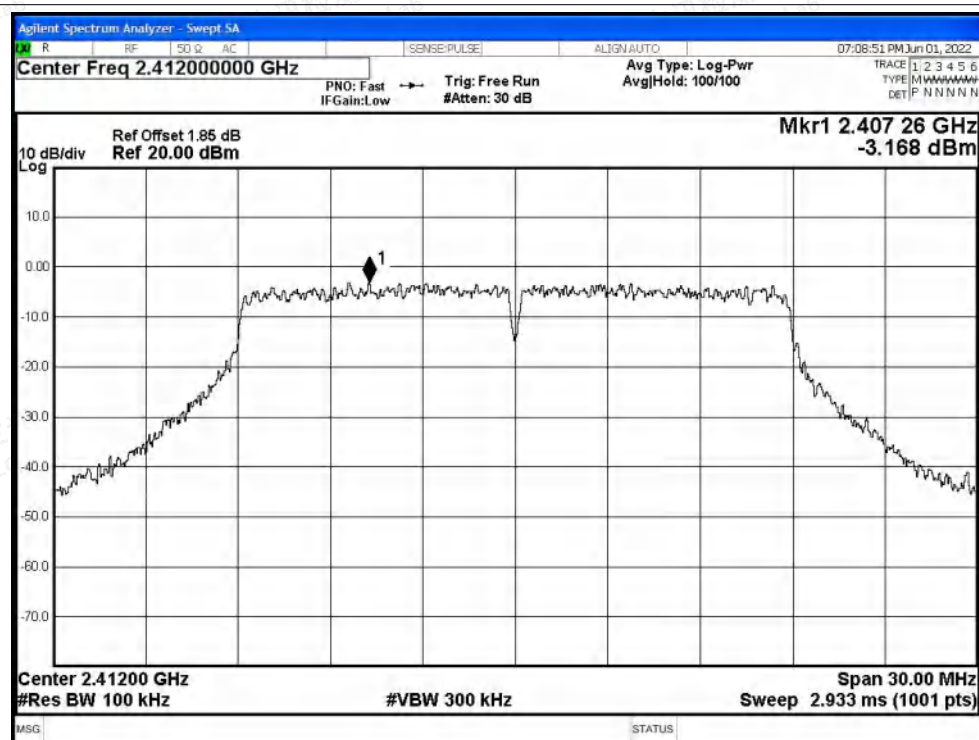
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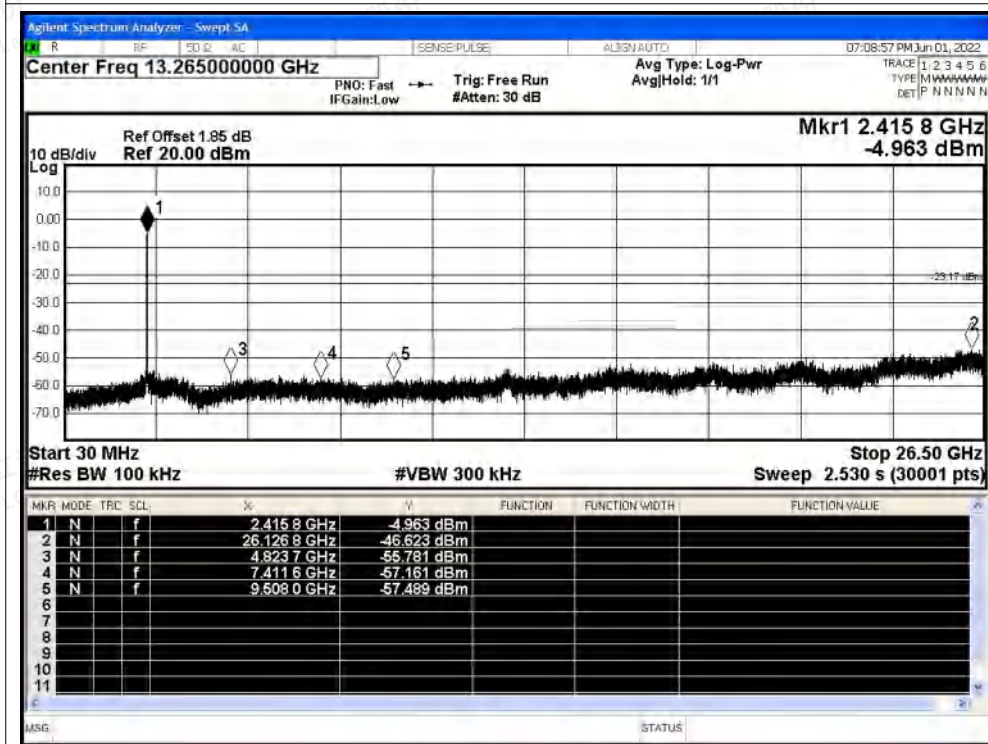
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Tx. Spurious NVNT n20 2412MHz Ant1 Emission



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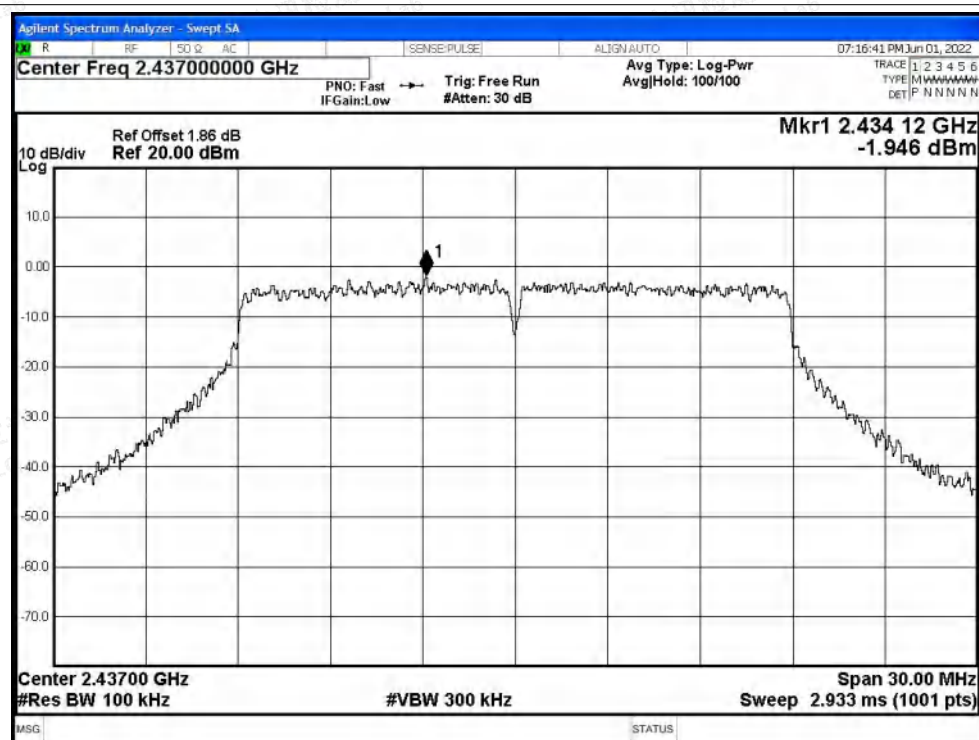
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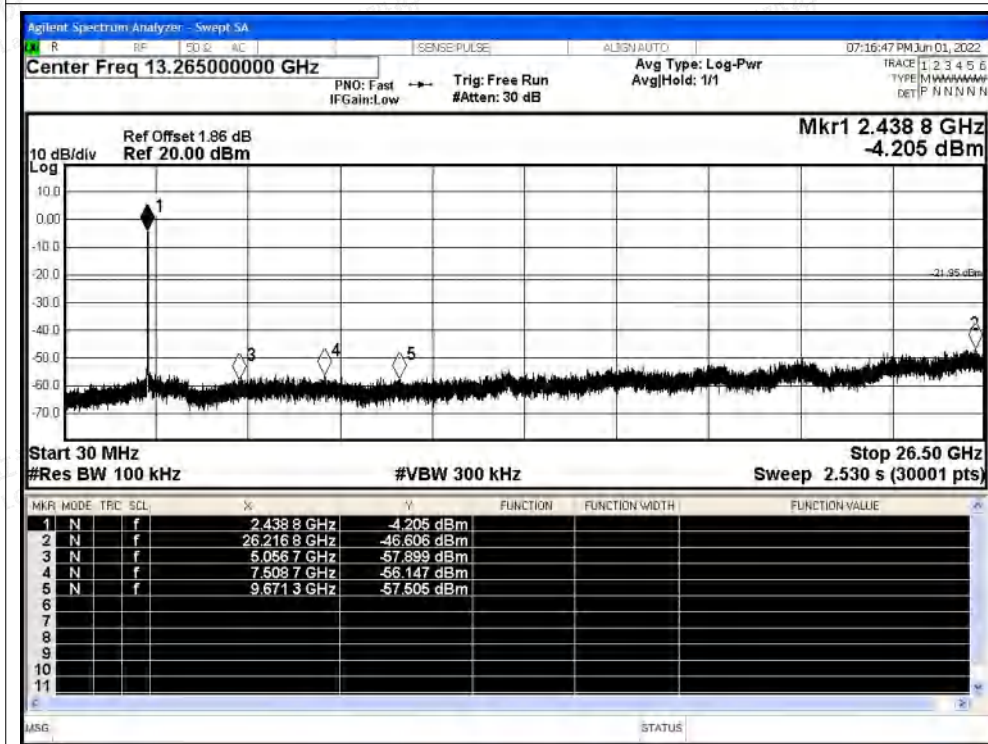
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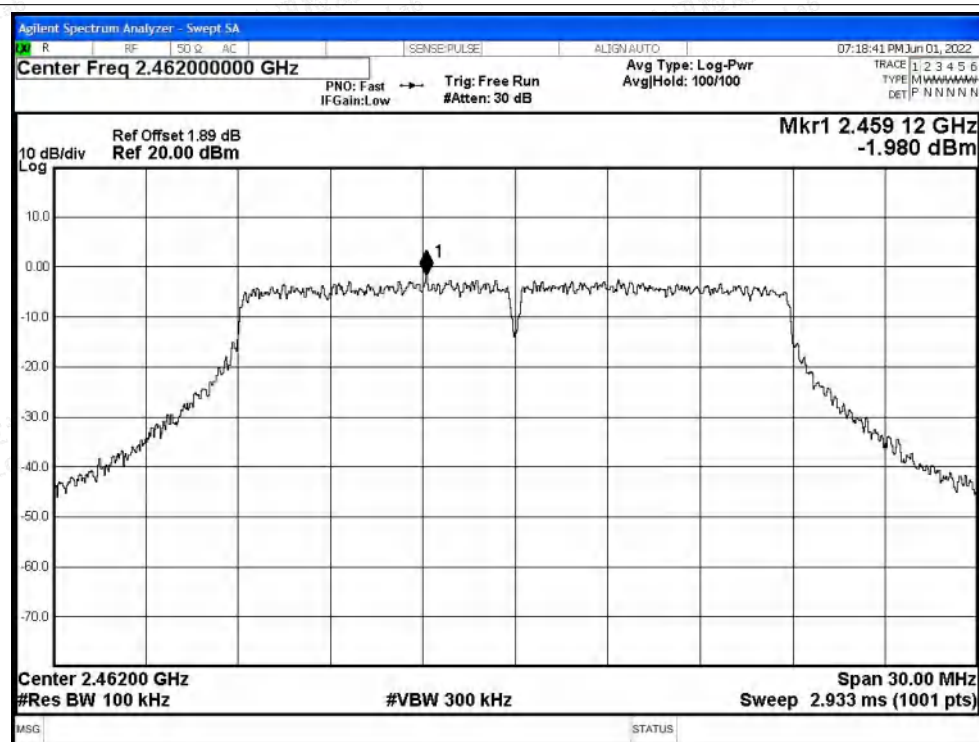
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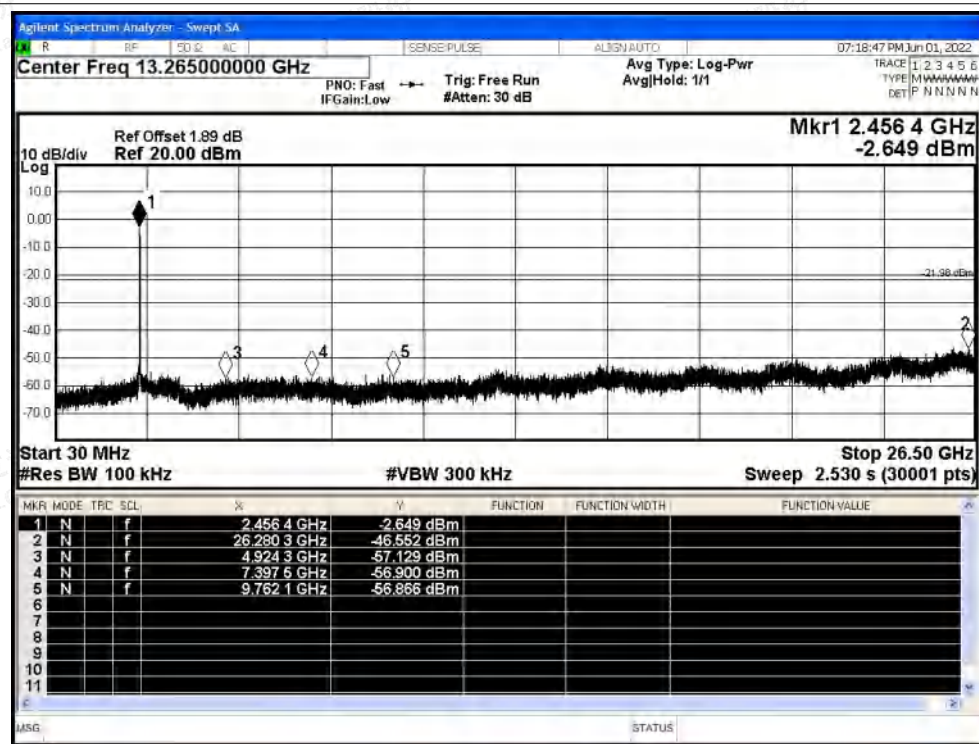
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B.7 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	100	0	0
NVNT	b	2437	Ant1	100	0	0
NVNT	b	2462	Ant1	100	0	0
NVNT	g	2412	Ant1	100	0	0
NVNT	g	2437	Ant1	100	0	0
NVNT	g	2462	Ant1	100	0	0
NVNT	n20	2412	Ant1	100	0	0
NVNT	n20	2437	Ant1	100	0	0
NVNT	n20	2462	Ant1	100	0	0



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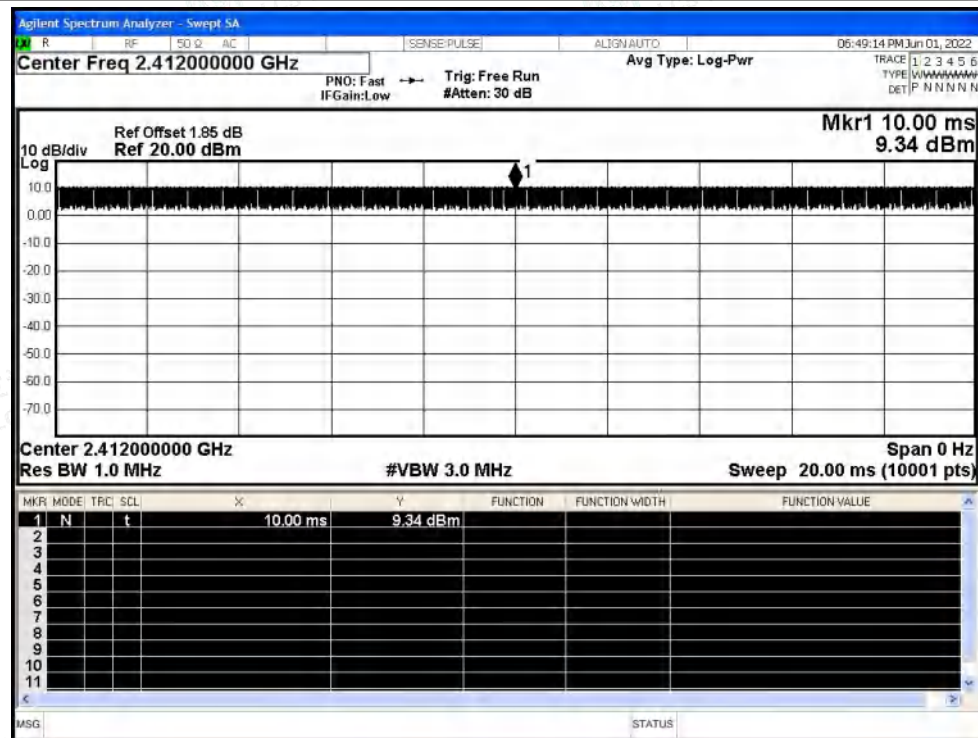
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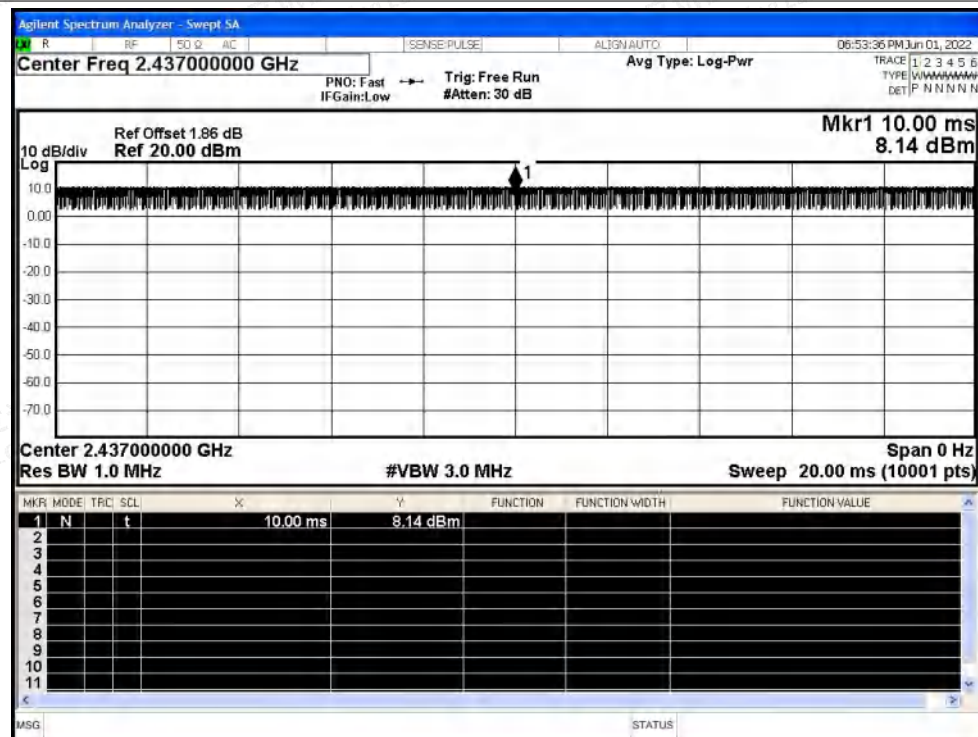


Test Graphs

Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

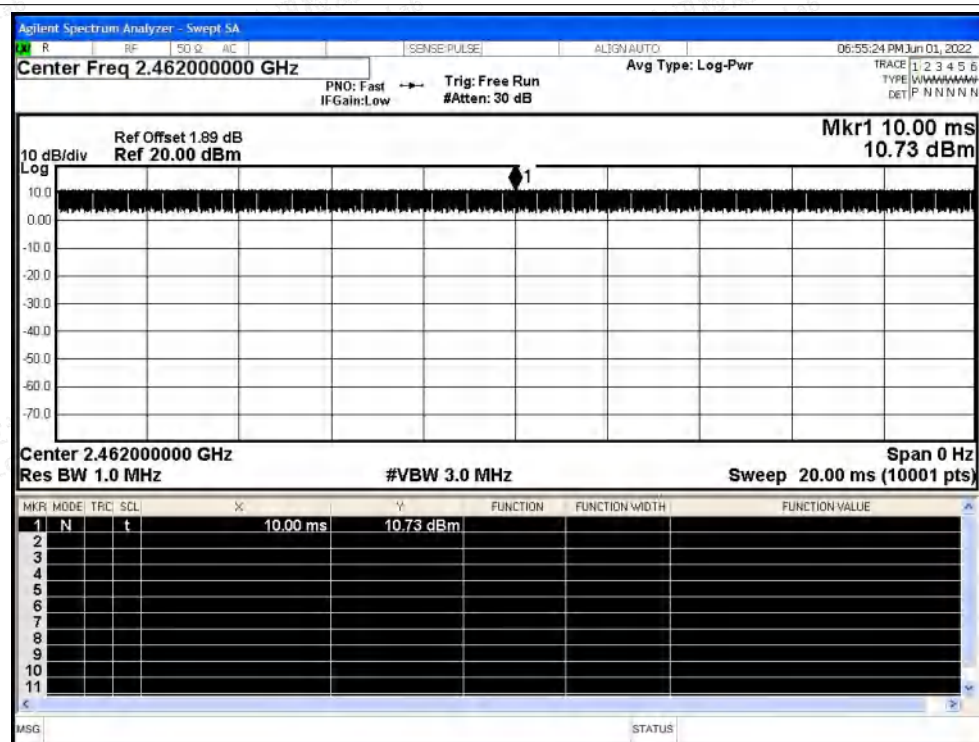
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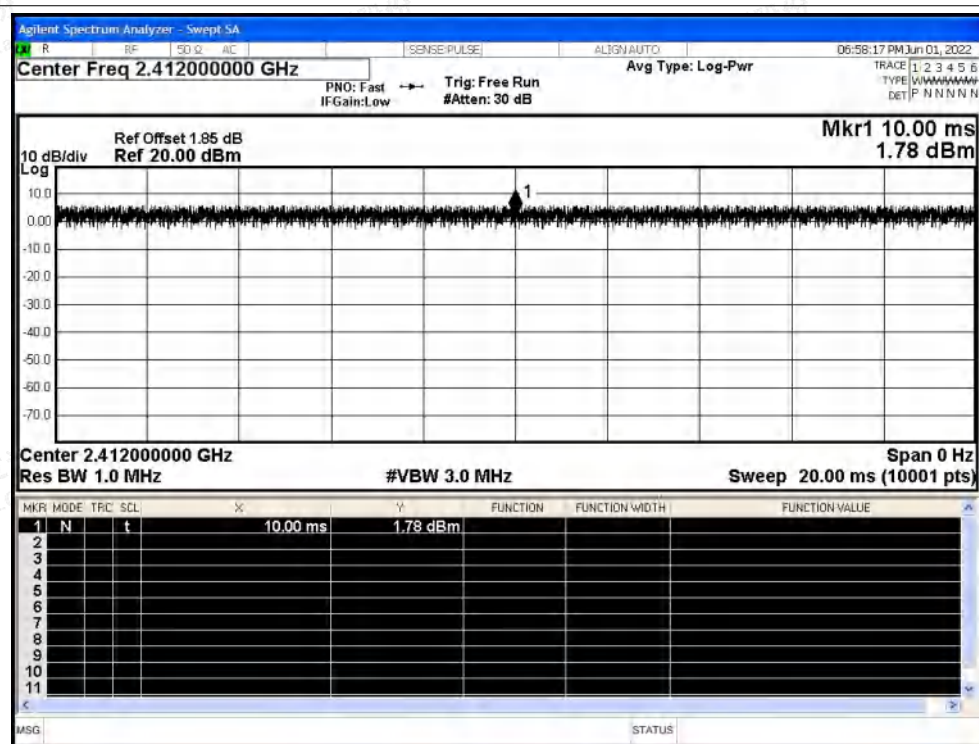
Scan code to check authenticity



Duty Cycle NVNT b 2462MHz Ant1



Duty Cycle NVNT g 2412MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

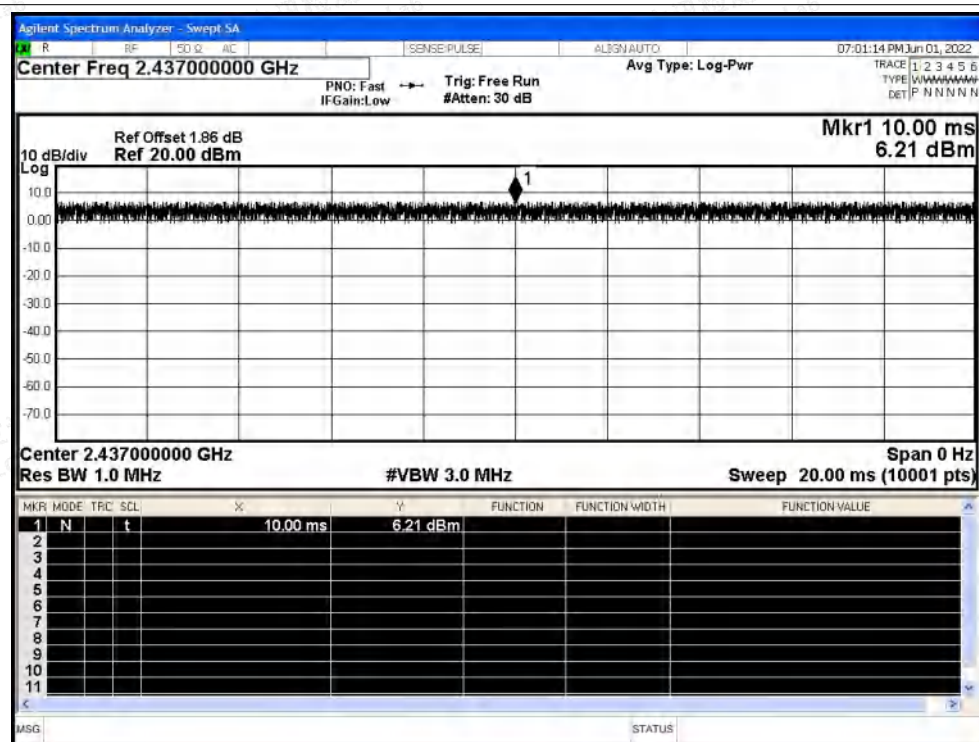
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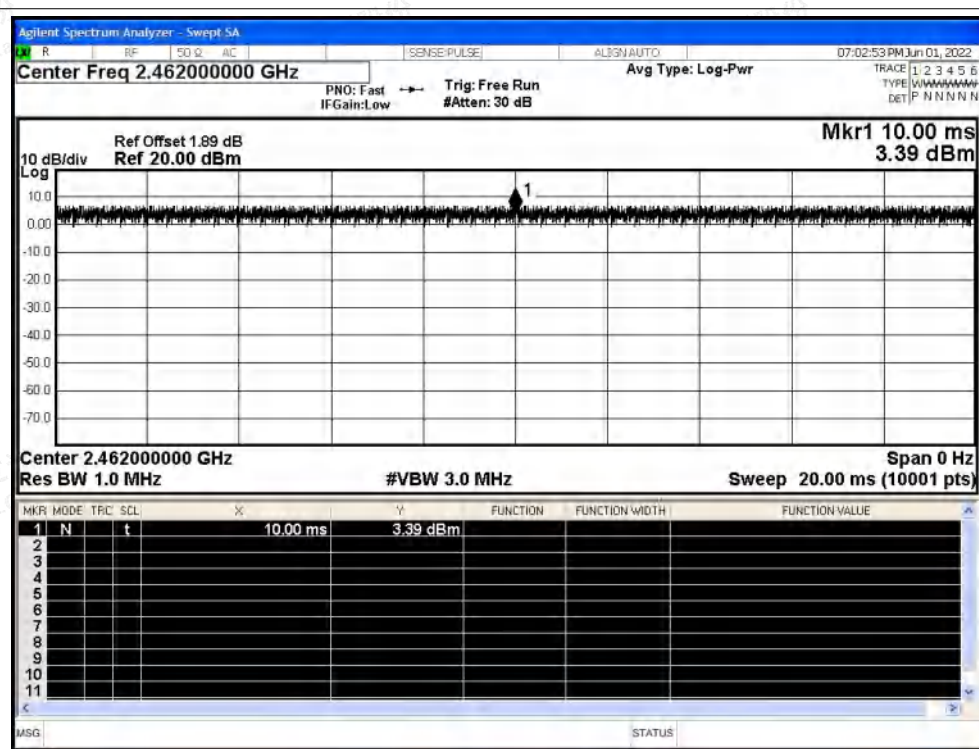
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Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2462MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

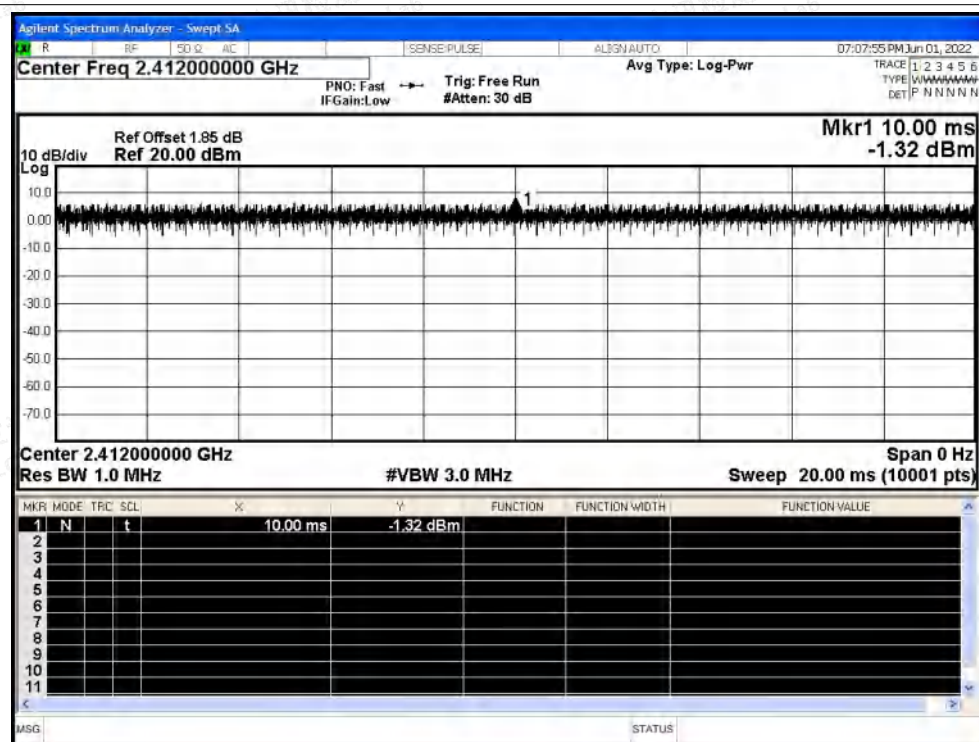
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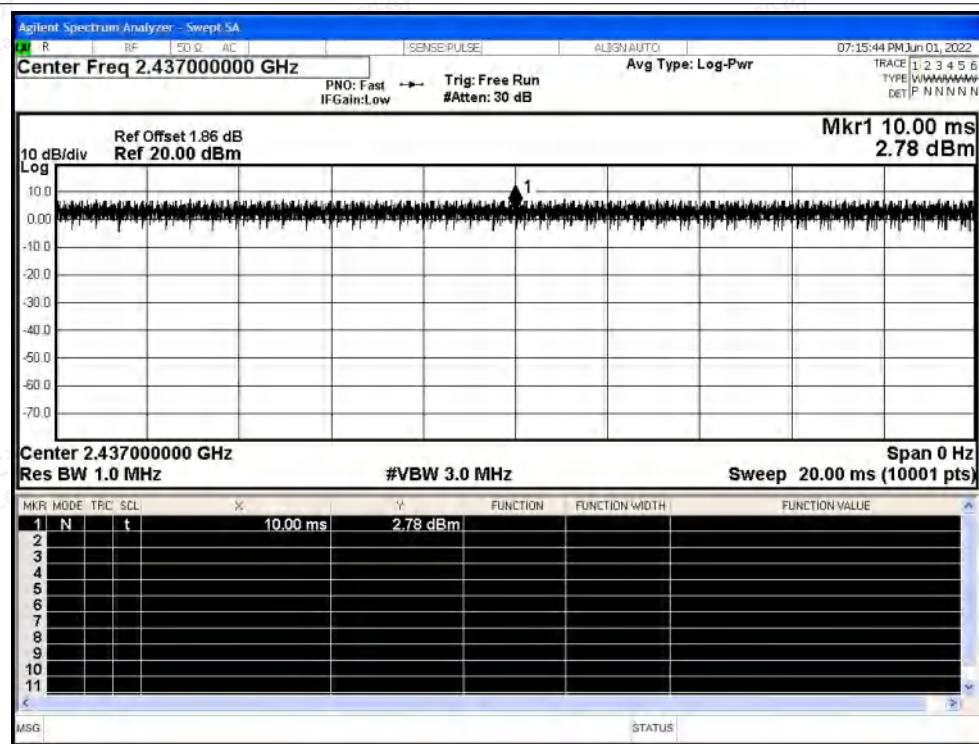
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Duty Cycle NVNT n20 2412MHz Ant1



Duty Cycle NVNT n20 2437MHz Ant1

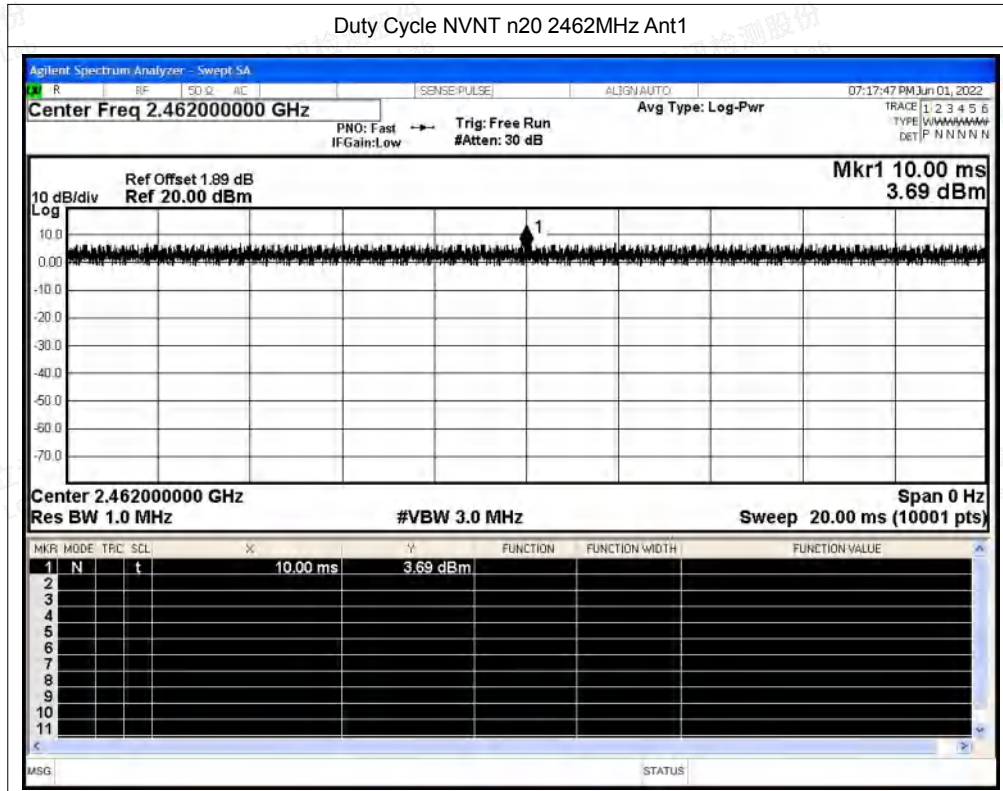


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B.8 Restrict Band

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	-48.07	2	49.19	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-57.99	2	39.27	Average	54	Pass
NVNT	b	2412	Ant1	2386.401	-43.94	2	53.32	Peak	74	Pass
NVNT	b	2412	Ant1	2386.401	-53.89	2	43.37	Average	54	Pass
NVNT	b	2412	Ant1	2390	-46.08	2	51.18	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-56.17	2	41.09	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-45.62	2	51.64	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-55.67	2	41.59	Average	54	Pass
NVNT	b	2462	Ant1	2488.287	-42.91	2	54.35	Peak	74	Pass
NVNT	b	2462	Ant1	2487.227	-53.78	2	43.48	Average	54	Pass
NVNT	b	2462	Ant1	2500	-47.56	2	49.7	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-57.06	2	40.2	Average	54	Pass
NVNT	g	2412	Ant1	2310	-48.87	2	48.39	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-58.84	2	38.42	Average	54	Pass
NVNT	g	2412	Ant1	2389.911	-41.48	2	55.78	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-53.32	2	43.94	Average	54	Pass
NVNT	g	2412	Ant1	2390	-41.55	2	55.71	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-53.13	2	44.13	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-38.76	2	58.5	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-51.9	2	45.36	Average	54	Pass
NVNT	g	2462	Ant1	2483.517	-38.76	2	58.5	Peak	74	Pass
NVNT	g	2462	Ant1	2483.782	-51.89	2	45.37	Average	54	Pass
NVNT	g	2462	Ant1	2500	-47.5	2	49.76	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-57.05	2	40.21	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-49.68	2	47.58	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-58.78	2	38.48	Average	54	Pass
NVNT	n20	2412	Ant1	2389.443	-37.97	2	59.29	Peak	74	Pass
NVNT	n20	2412	Ant1	2389.794	-52.11	2	45.15	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-39.87	2	57.39	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-52.22	2	45.04	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-40.67	2	56.59	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-51.28	2	45.98	Average	54	Pass
NVNT	n20	2462	Ant1	2483.676	-36.89	2	60.37	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.57	-51.22	2	46.04	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-47.94	2	49.32	Peak	74	Pass
NVNT	n20	2462	Ant1	2500	-57.3	2	39.96	Average	54	Pass



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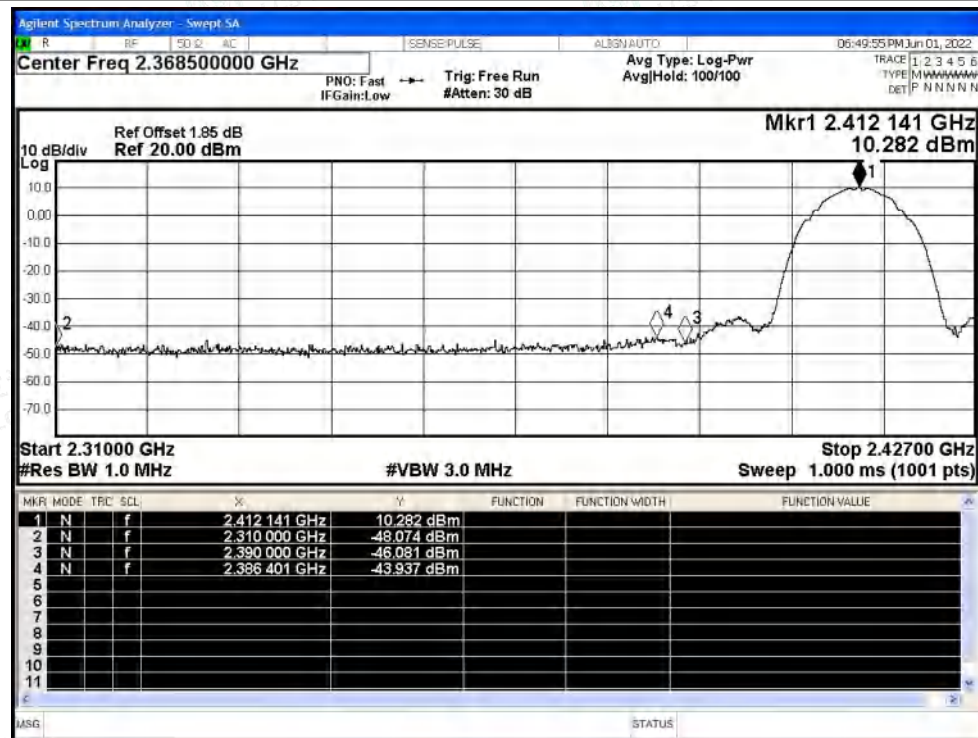
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Test Graphs

Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average



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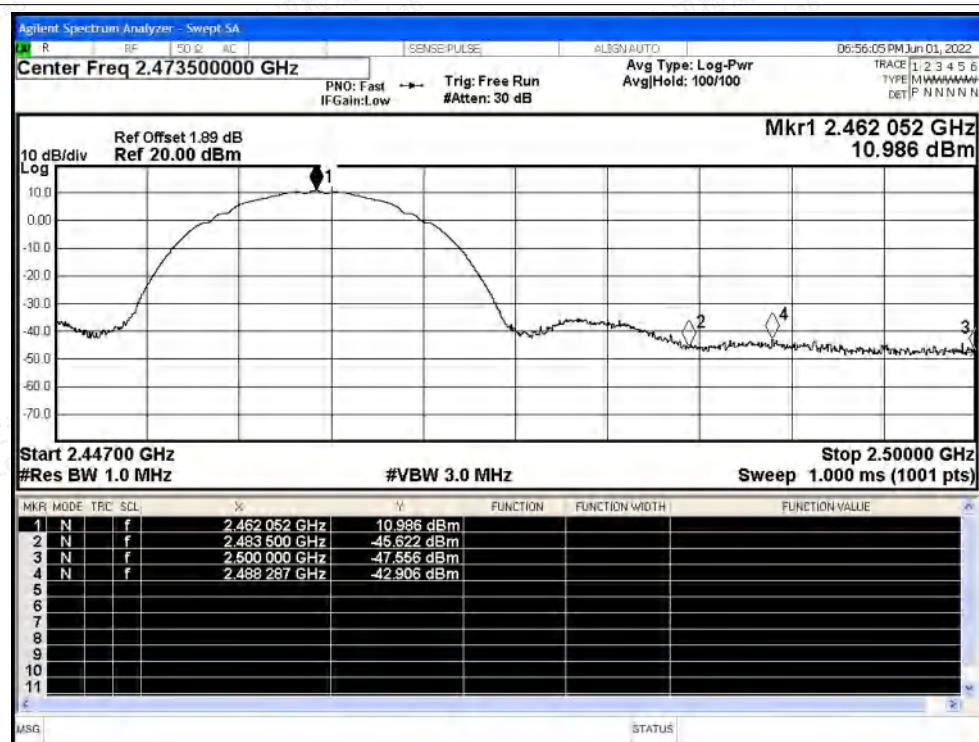
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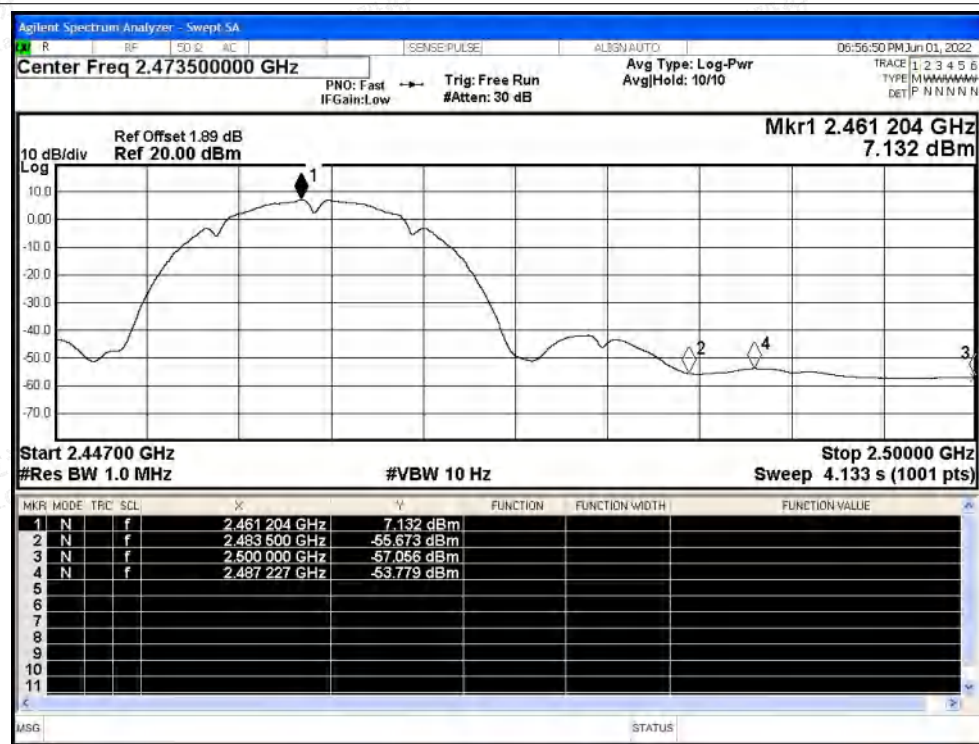
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Restrict Band NVNT b 2462MHz Ant1 Peak



Restrict Band NVNT b 2462MHz Ant1 Average



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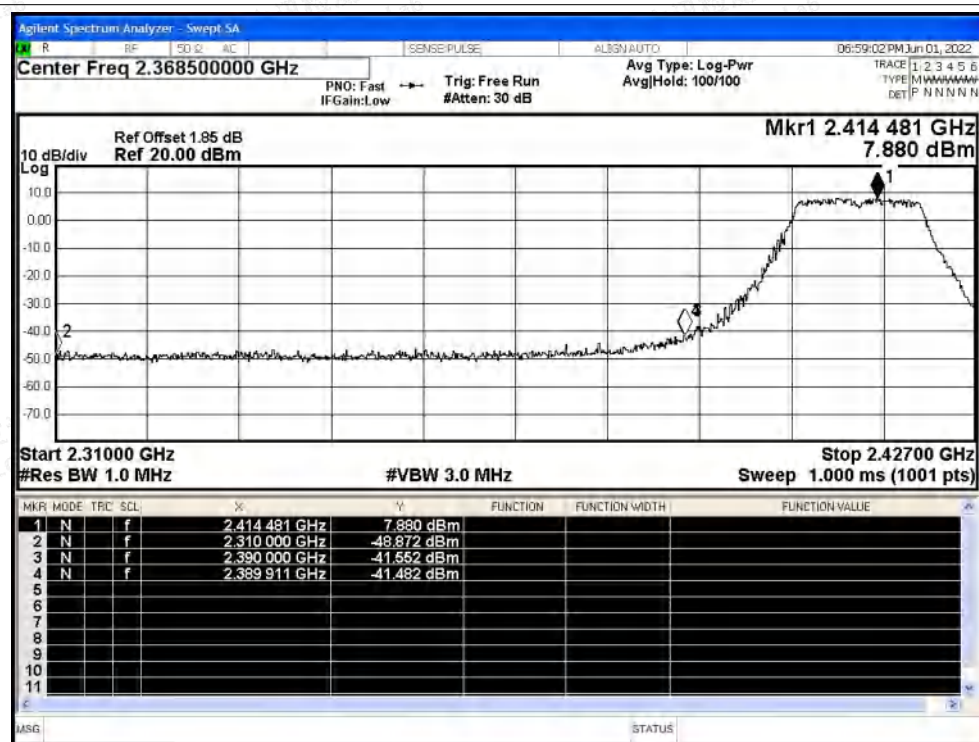
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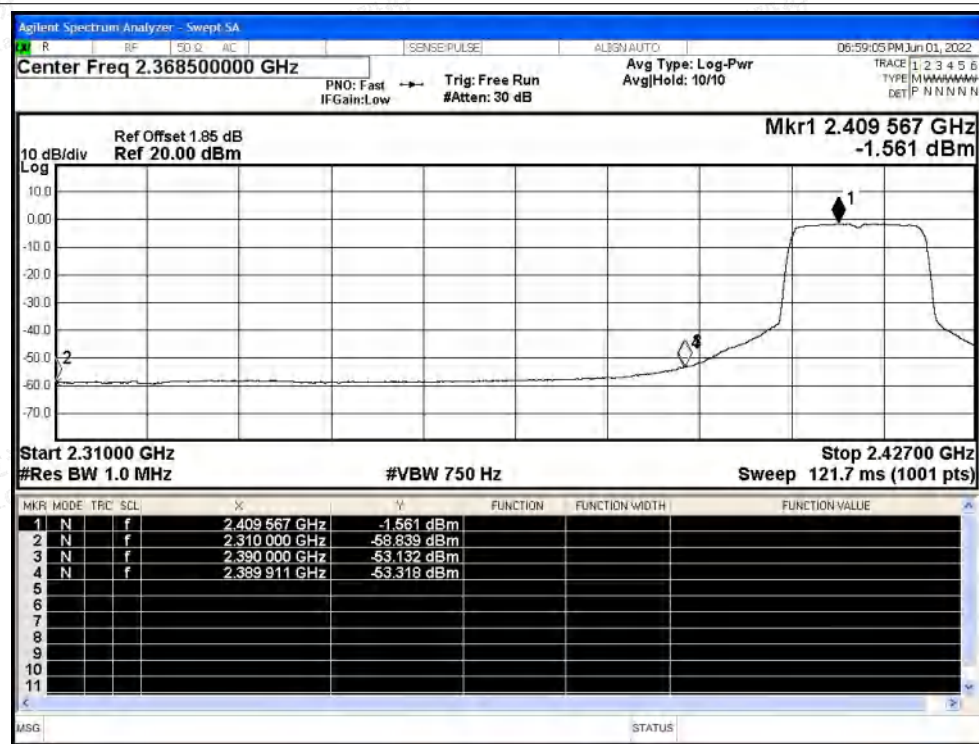
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Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average



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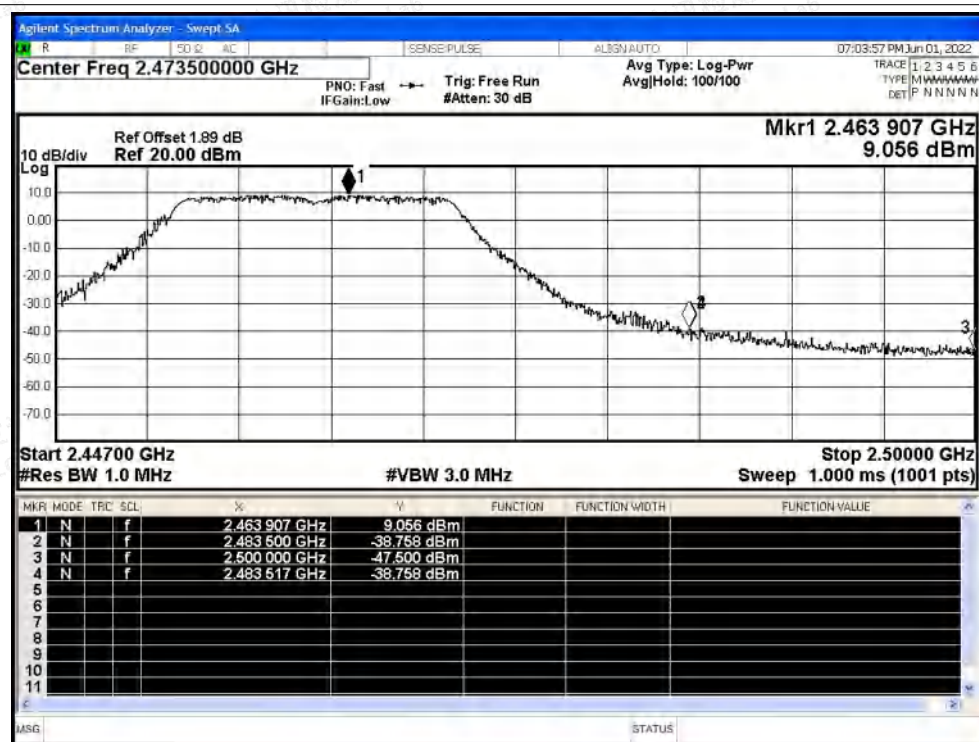
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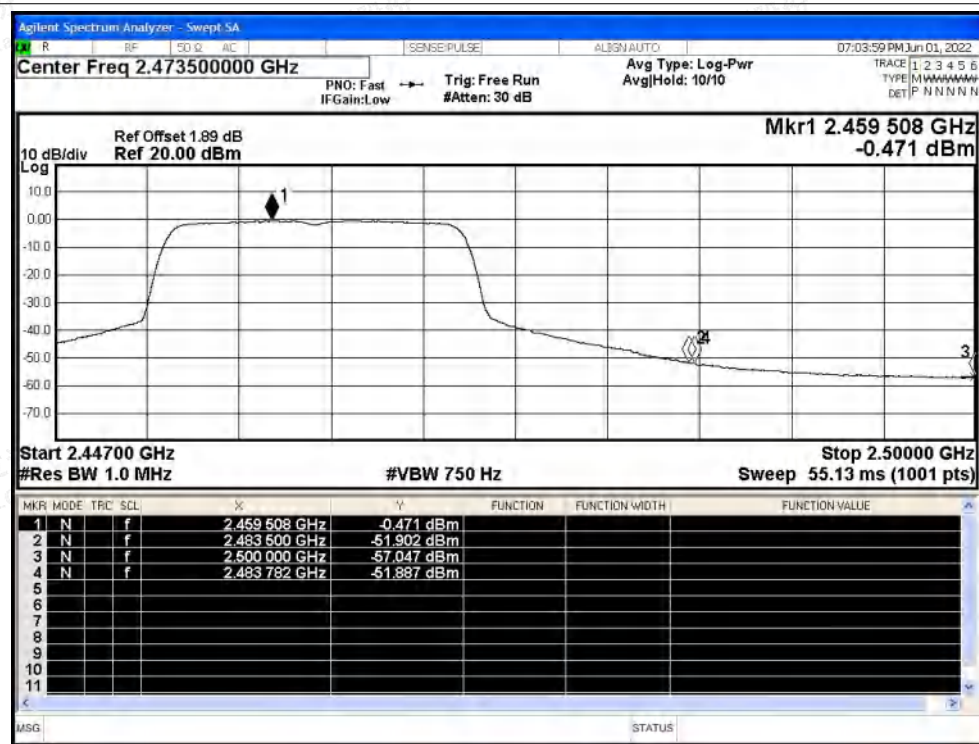
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Restrict Band NVNT g 2462MHz Ant1 Peak



Restrict Band NVNT g 2462MHz Ant1 Average



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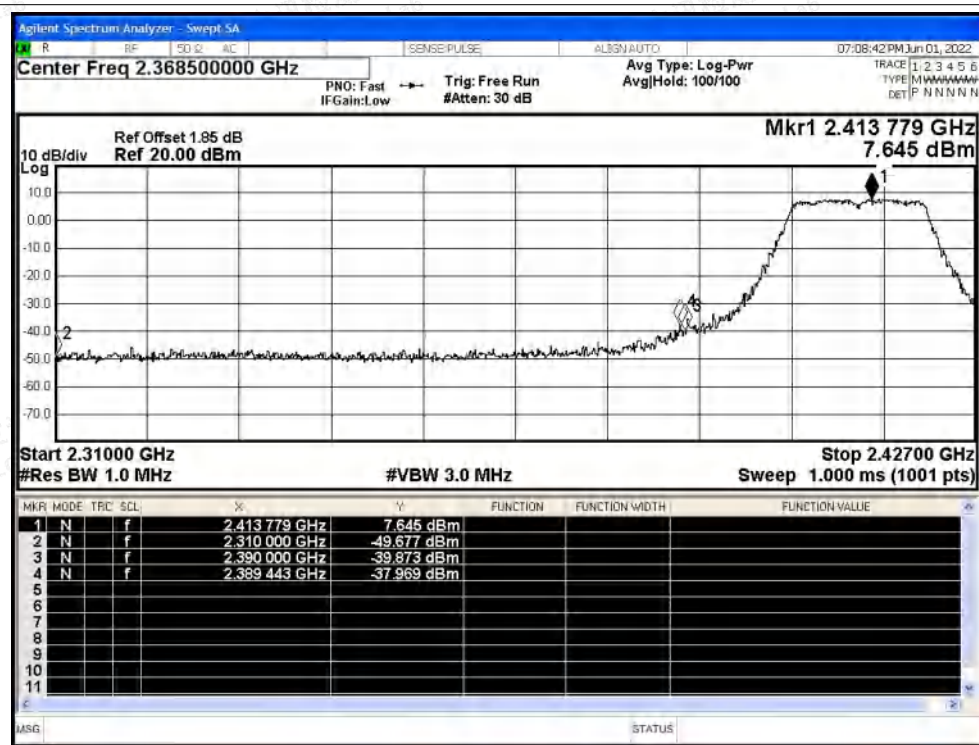
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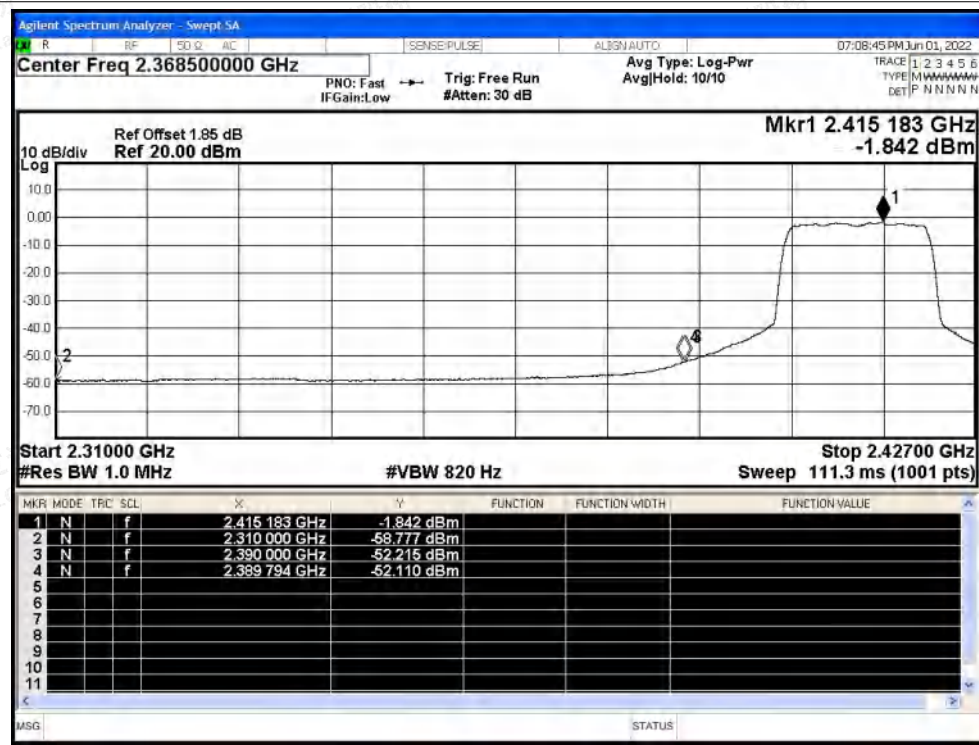
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Restrict Band NVNT n20 2412MHz Ant1 Peak



Restrict Band NVNT n20 2412MHz Ant1 Average



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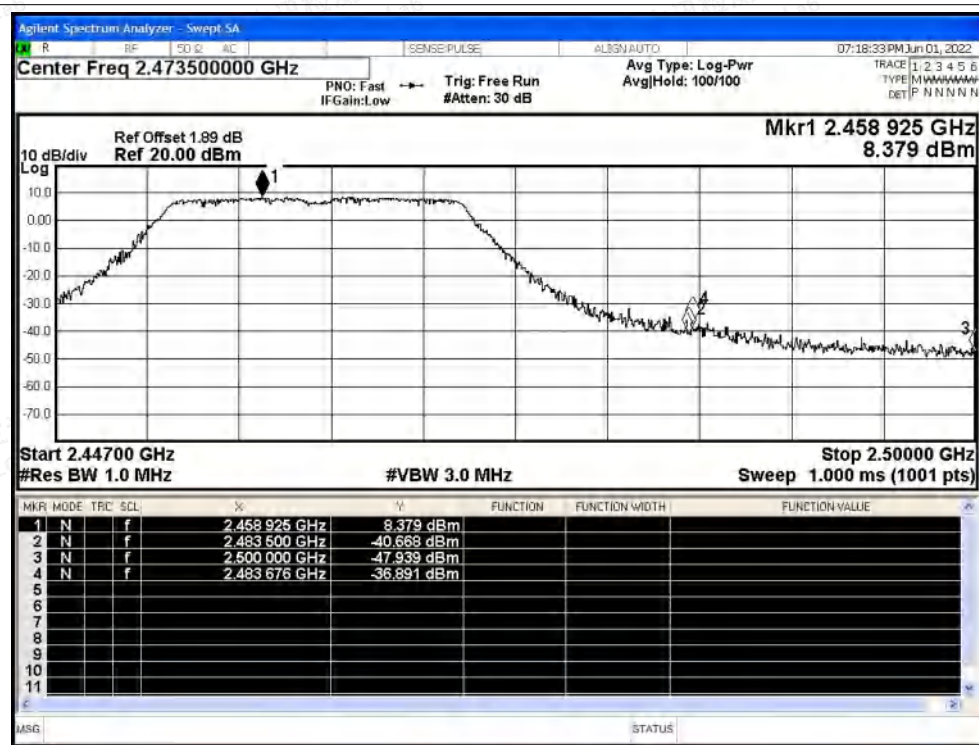
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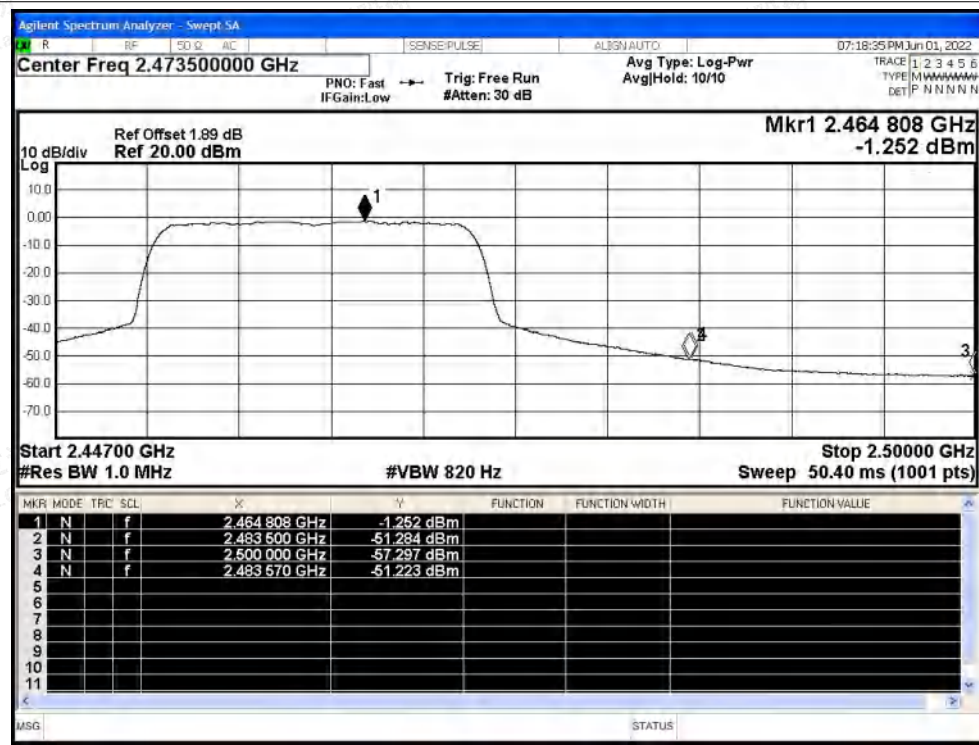
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