



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: myFirst Fone R2

Test Model: KW1306

Environmental Conditions

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



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C.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.578	≥ 0.5	Pass
NVNT	b	2437	Ant1	8.017	≥ 0.5	Pass
NVNT	b	2462	Ant1	9.54	≥ 0.5	Pass
NVNT	g	2412	Ant1	16.281	≥ 0.5	Pass
NVNT	g	2437	Ant1	16.335	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.026	≥ 0.5	Pass
NVNT	n20	2412	Ant1	17.147	≥ 0.5	Pass
NVNT	n20	2437	Ant1	17.256	≥ 0.5	Pass
NVNT	n20	2462	Ant1	16.877	≥ 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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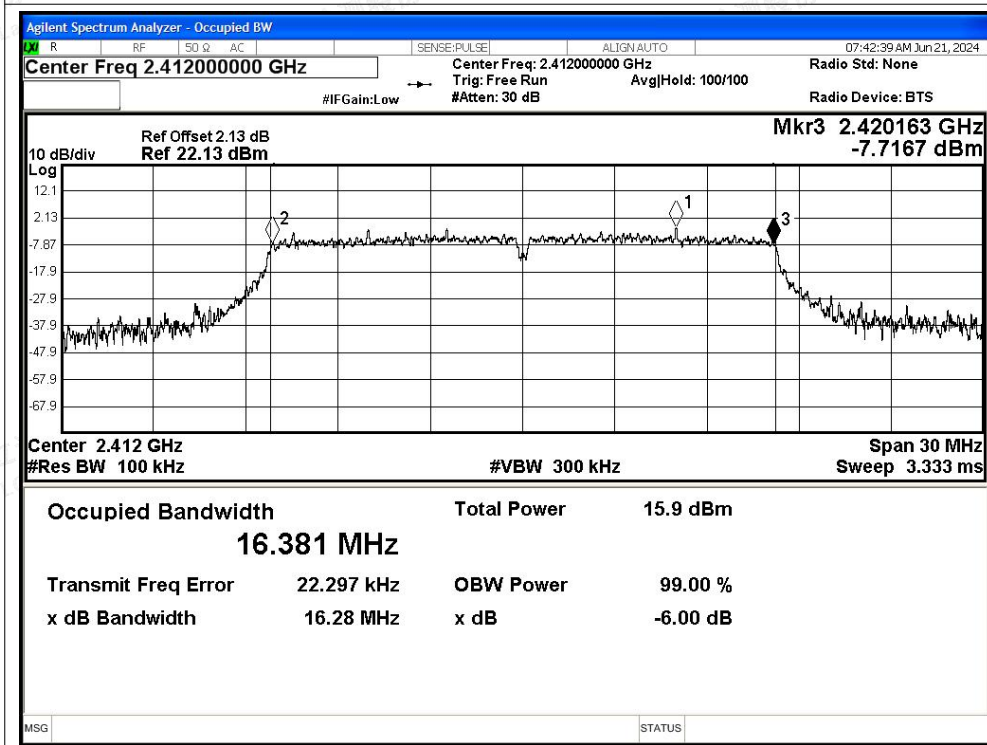
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



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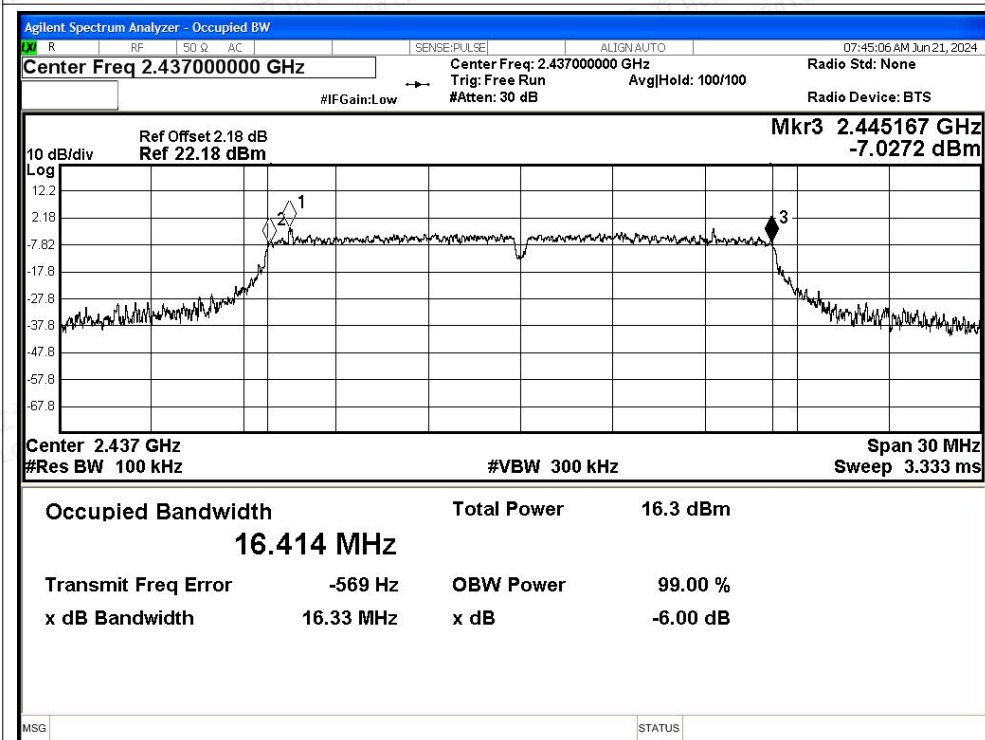
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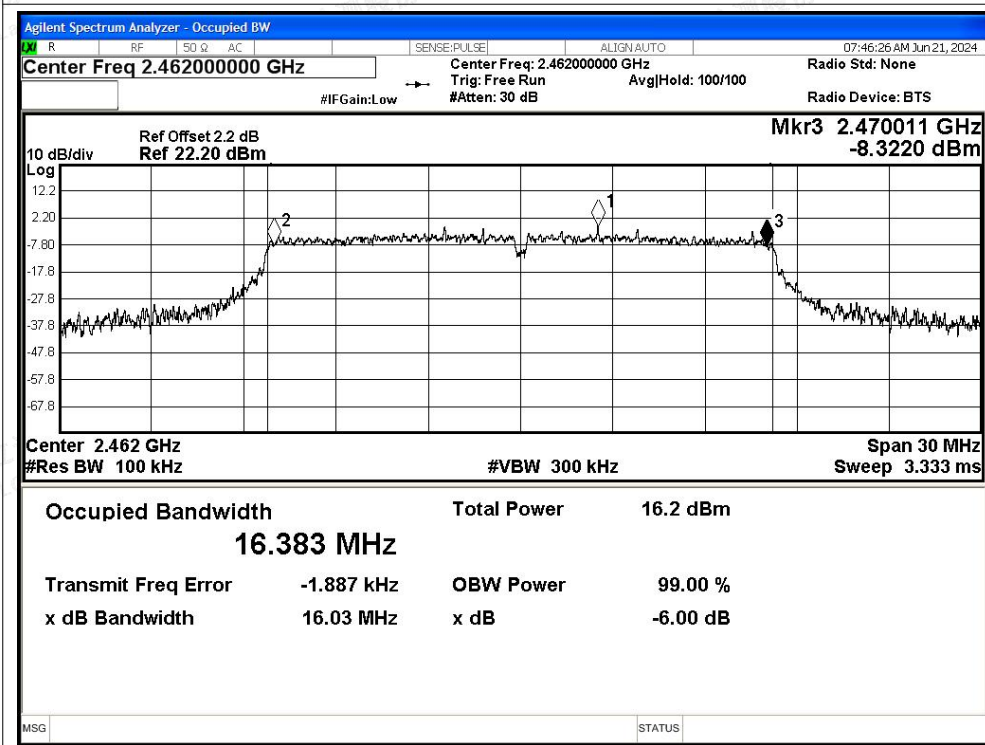
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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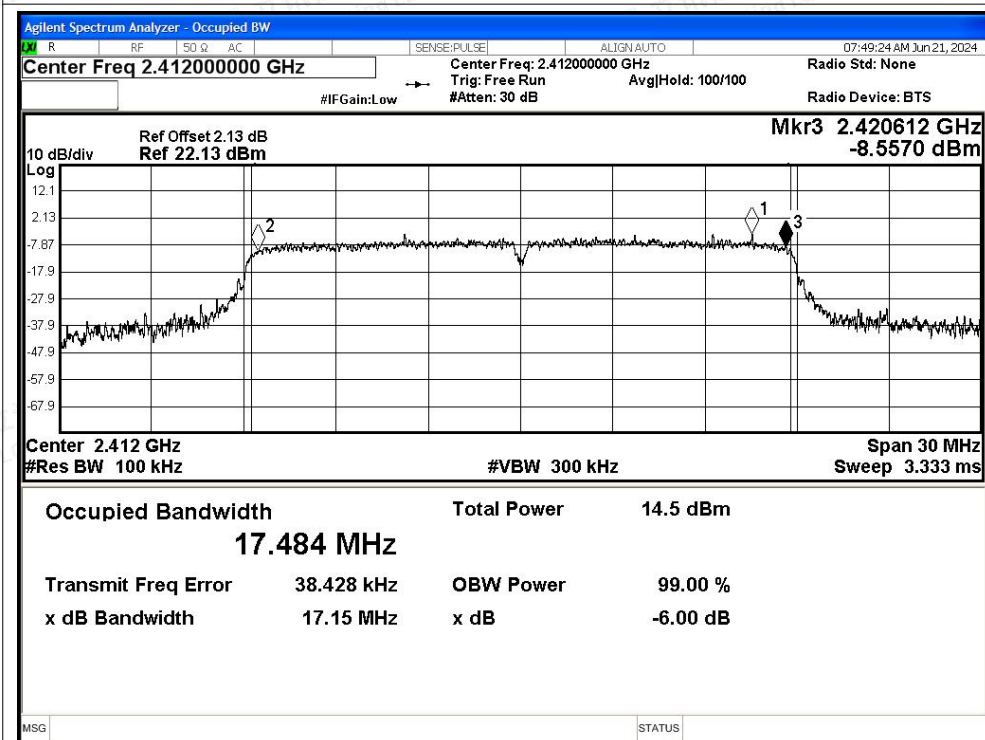
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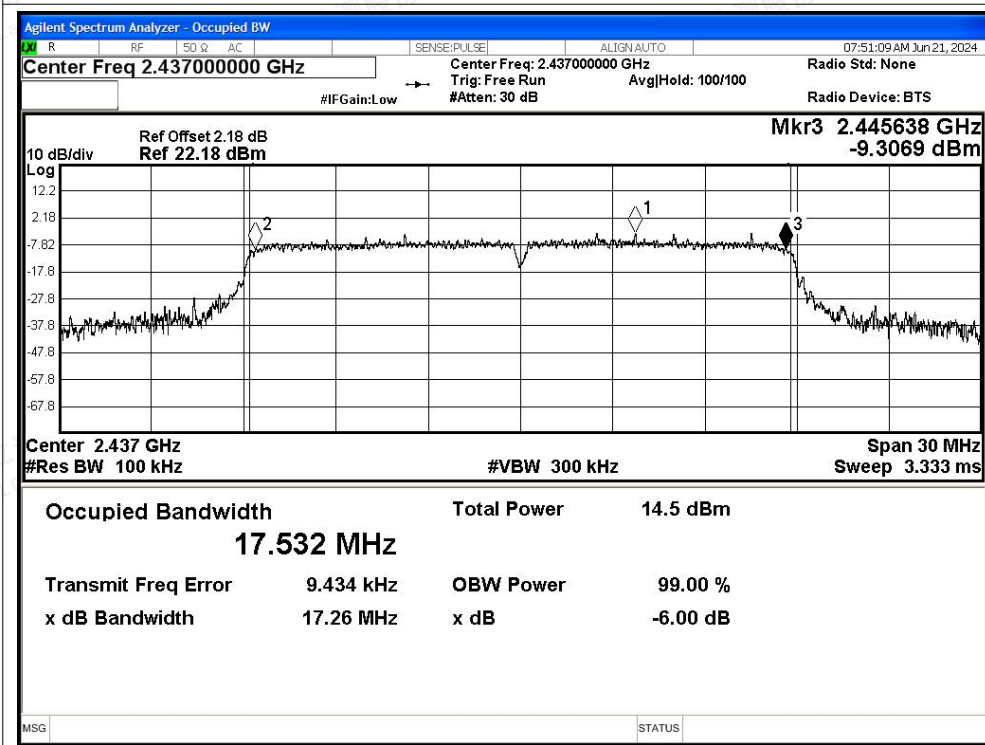
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-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1

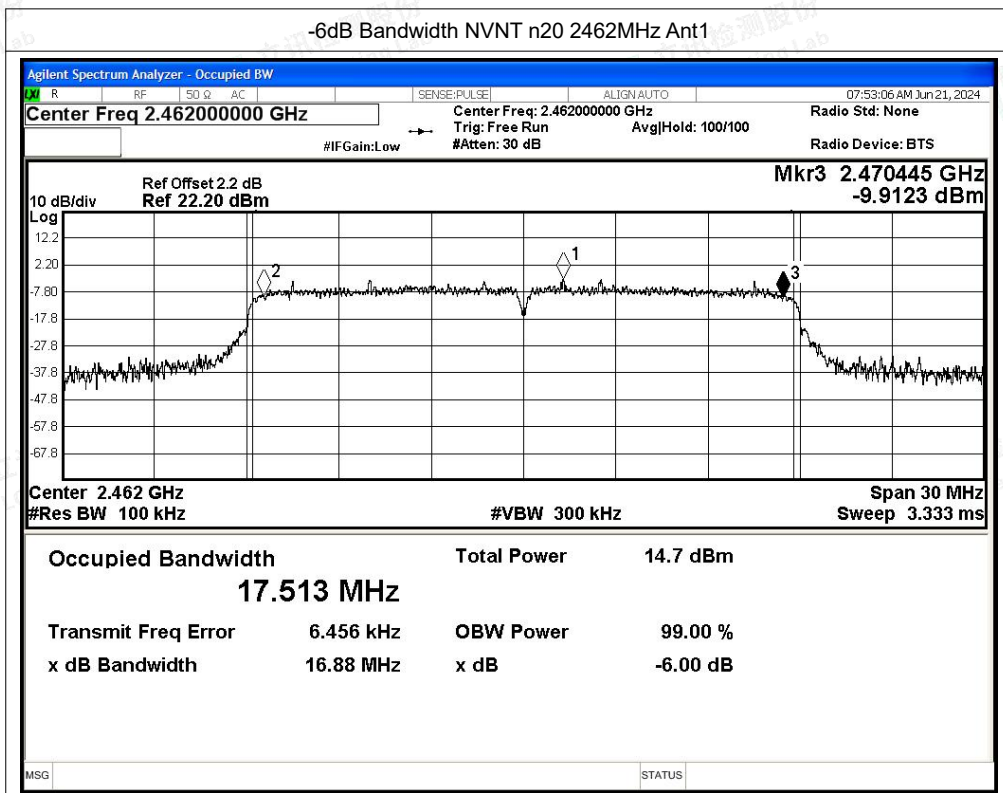


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C.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.09	30	Pass
NVNT	b	2437	Ant1	15.92	30	Pass
NVNT	b	2462	Ant1	15.59	30	Pass
NVNT	g	2412	Ant1	14.78	30	Pass
NVNT	g	2437	Ant1	14.63	30	Pass
NVNT	g	2462	Ant1	14.97	30	Pass
NVNT	n20	2412	Ant1	13.15	30	Pass
NVNT	n20	2437	Ant1	13.12	30	Pass
NVNT	n20	2462	Ant1	13.64	30	Pass



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C.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-8.95	8	Pass
NVNT	b	2437	Ant1	-6.72	8	Pass
NVNT	b	2462	Ant1	-9.26	8	Pass
NVNT	g	2412	Ant1	-15.42	8	Pass
NVNT	g	2437	Ant1	-14.52	8	Pass
NVNT	g	2462	Ant1	-15.68	8	Pass
NVNT	n20	2412	Ant1	-17.44	8	Pass
NVNT	n20	2437	Ant1	-17.85	8	Pass
NVNT	n20	2462	Ant1	-17.83	8	Pass



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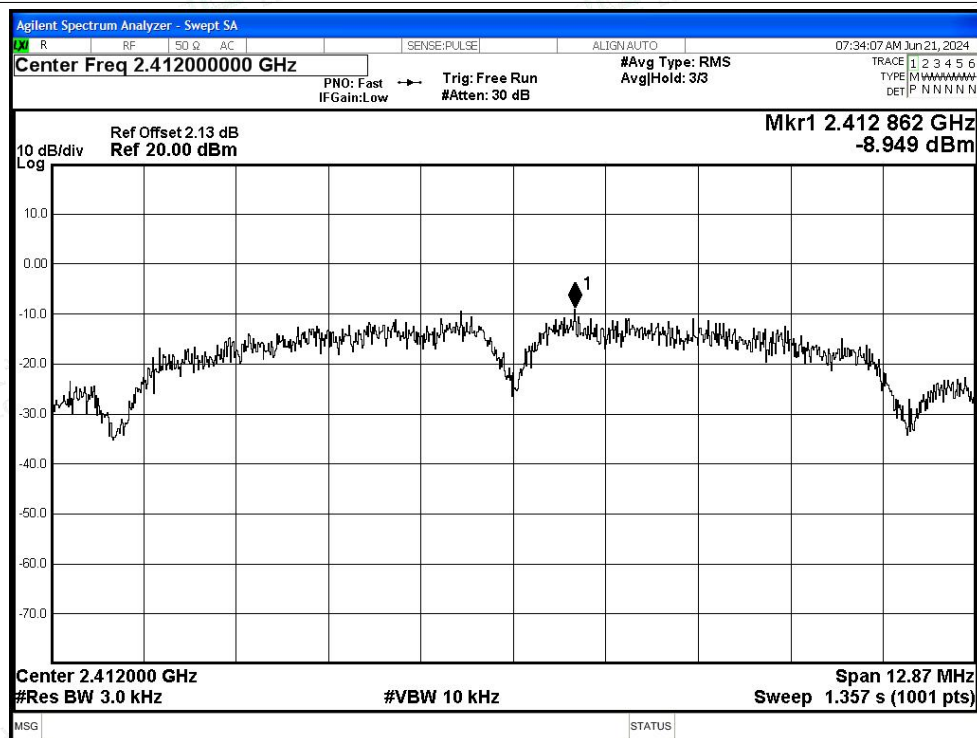
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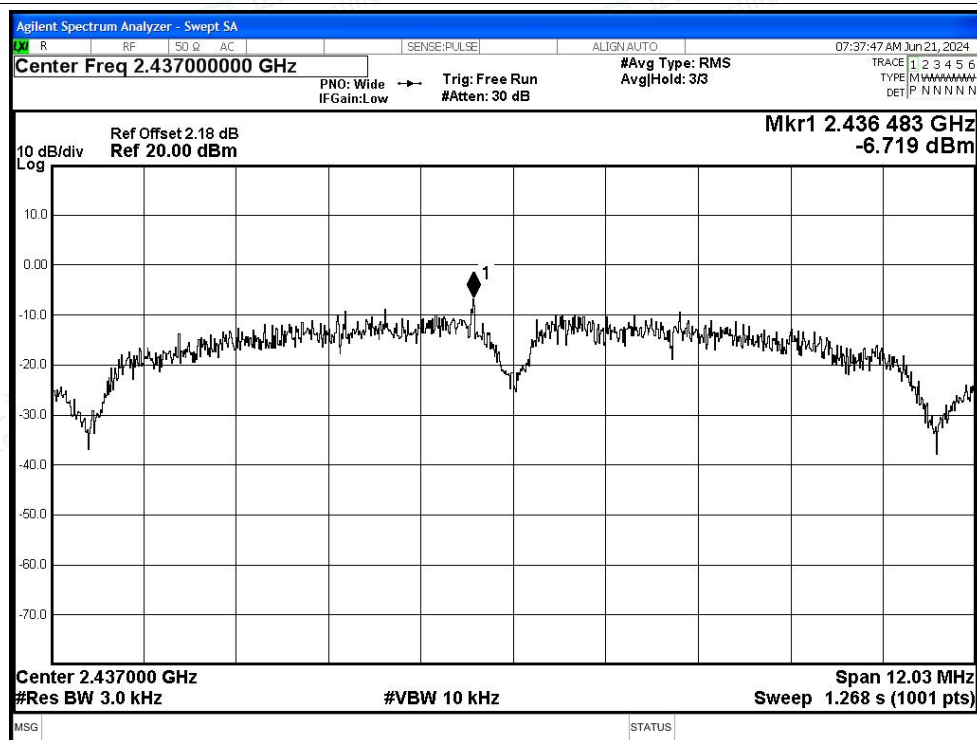


Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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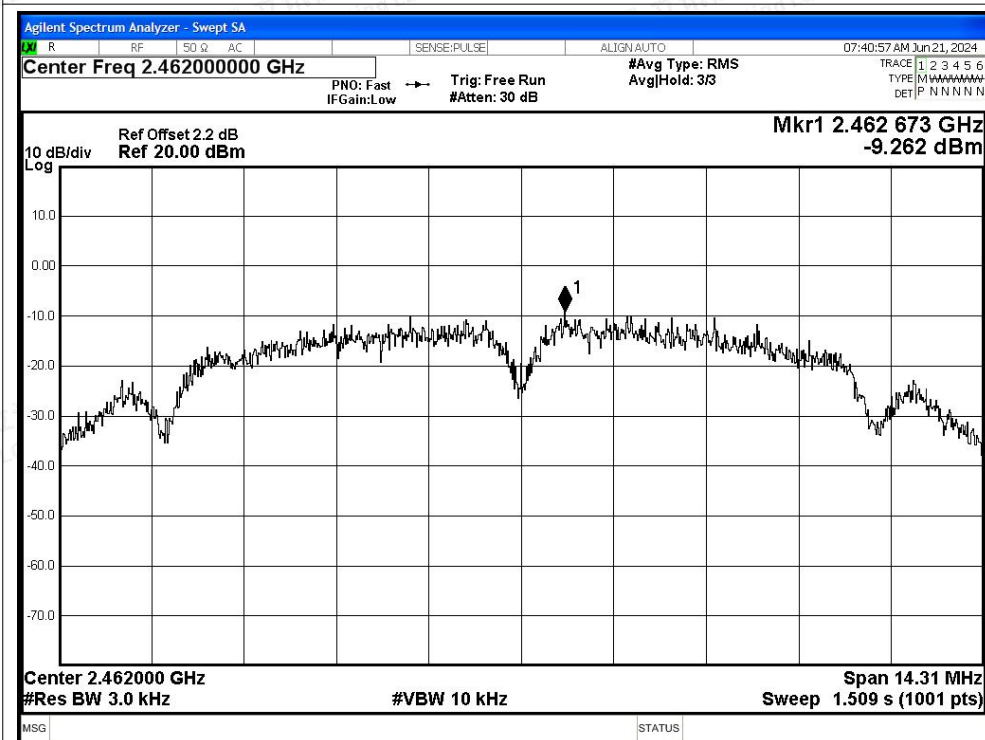
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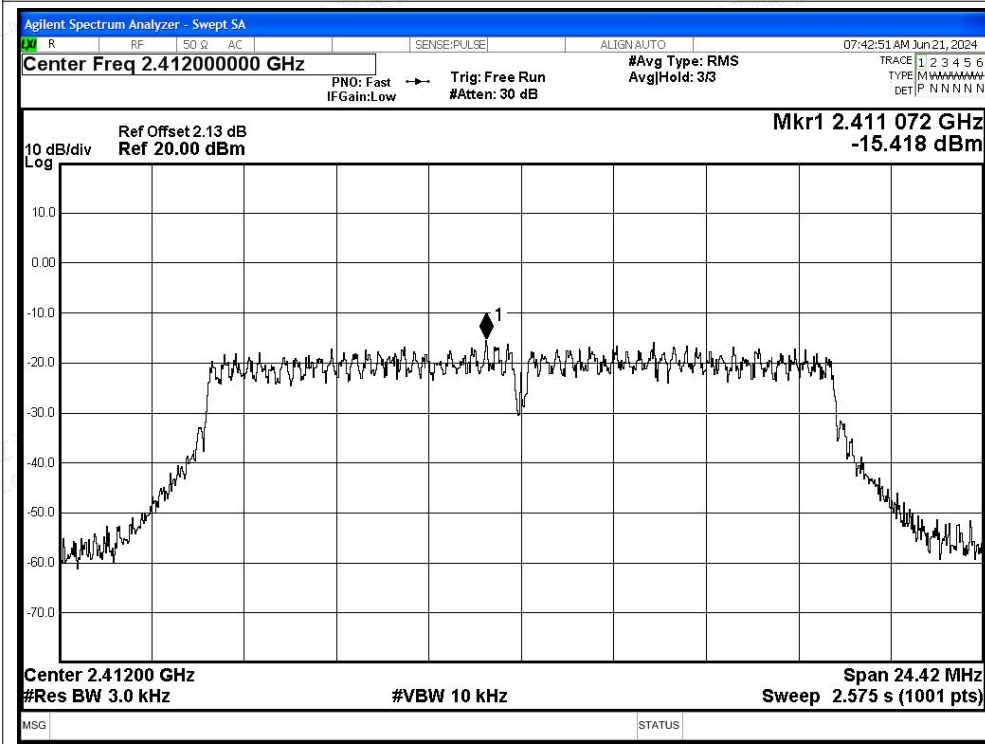
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



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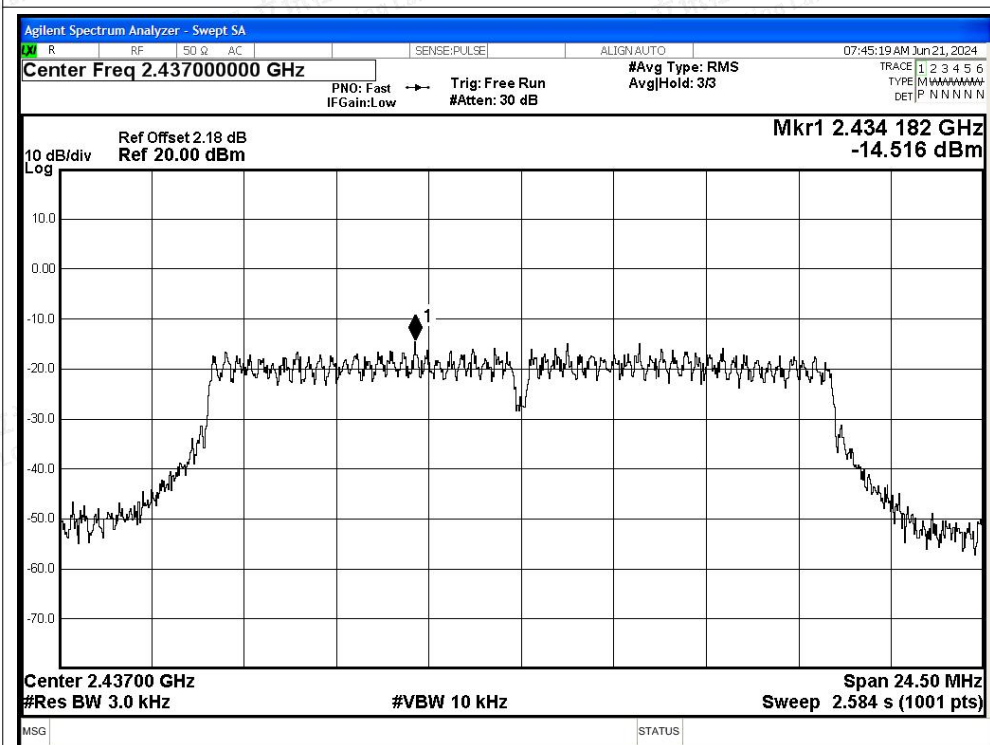
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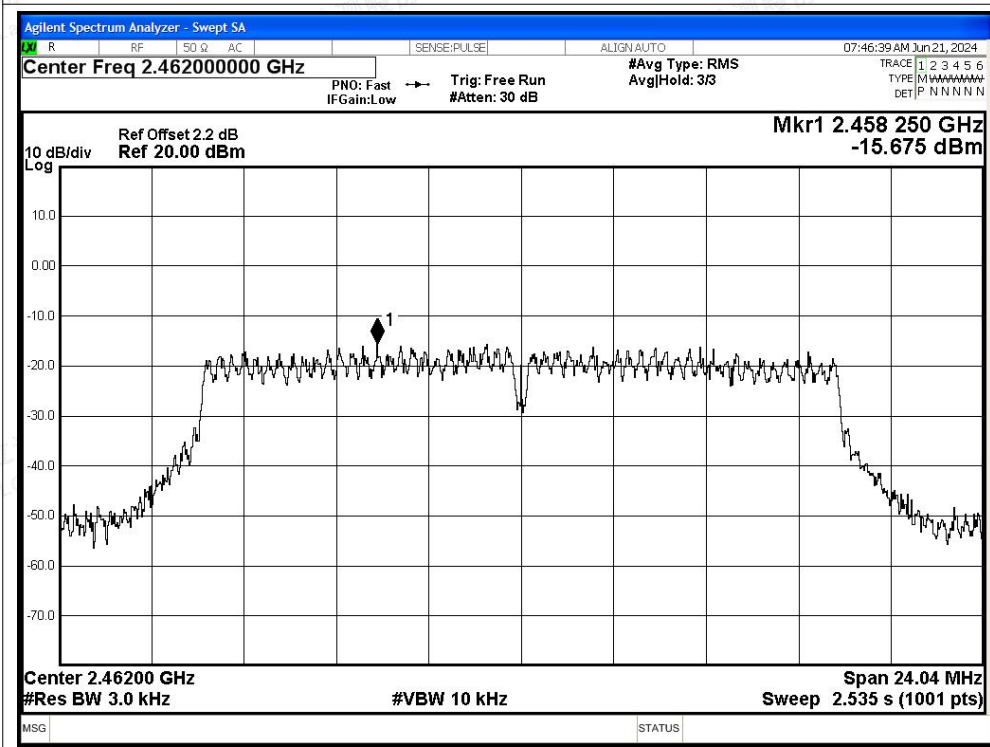
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1



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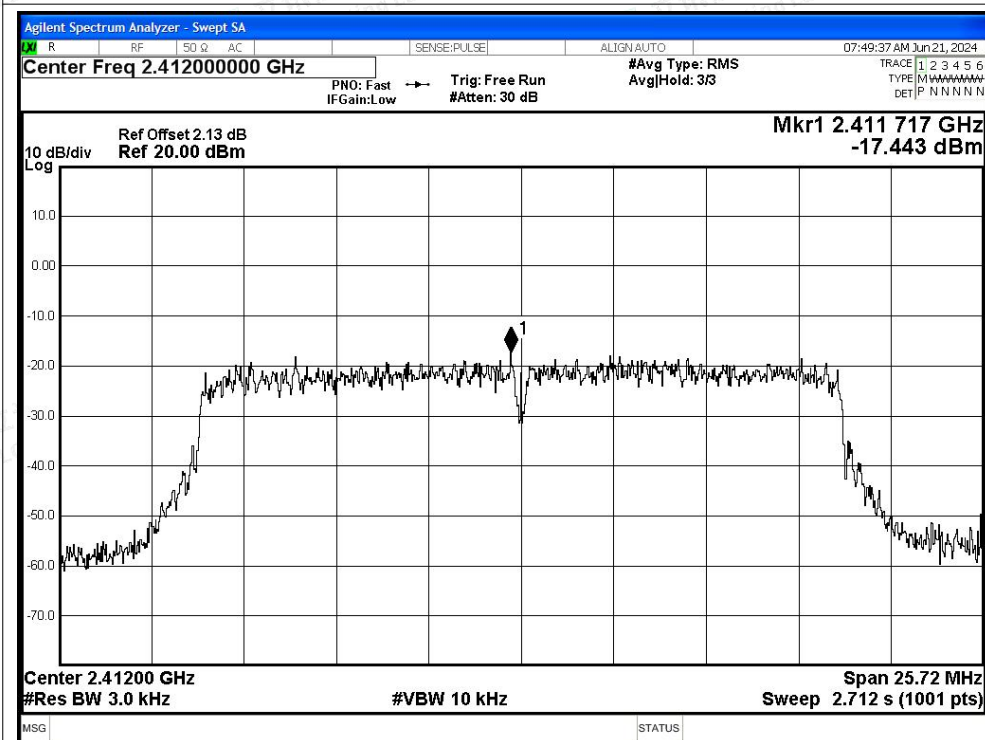
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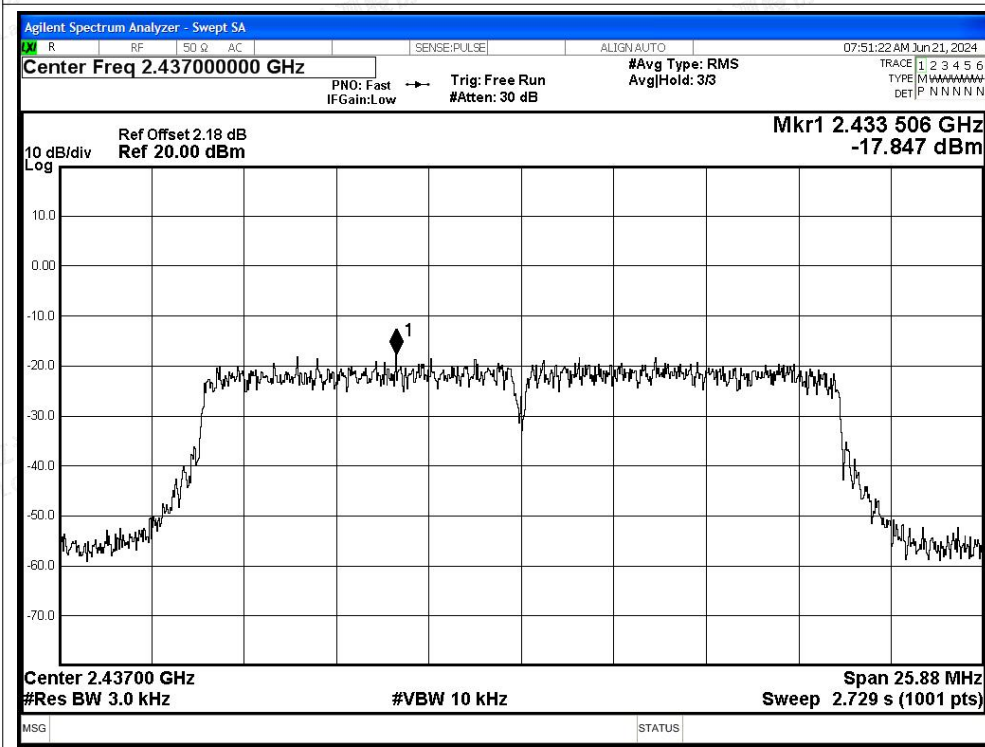
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PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1

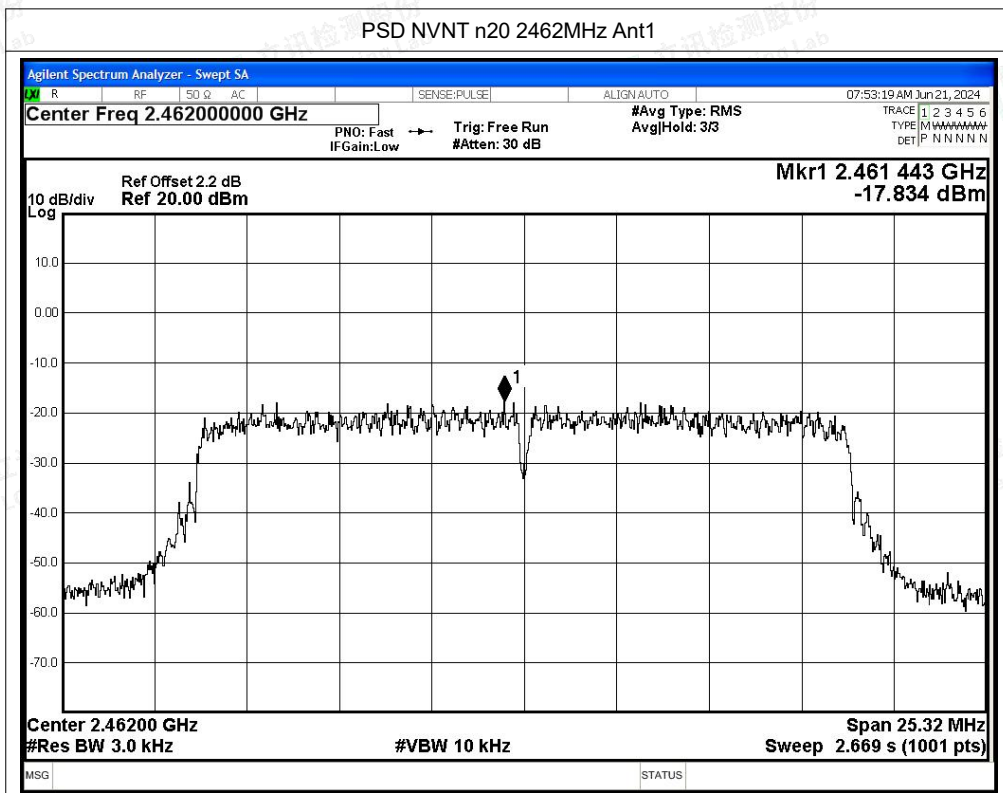


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C.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-35.97	-20	Pass
NVNT	b	2462	Ant1	-60.72	-20	Pass
NVNT	g	2412	Ant1	-32.01	-20	Pass
NVNT	g	2462	Ant1	-43.55	-20	Pass
NVNT	n20	2412	Ant1	-31.67	-20	Pass
NVNT	n20	2462	Ant1	-38.83	-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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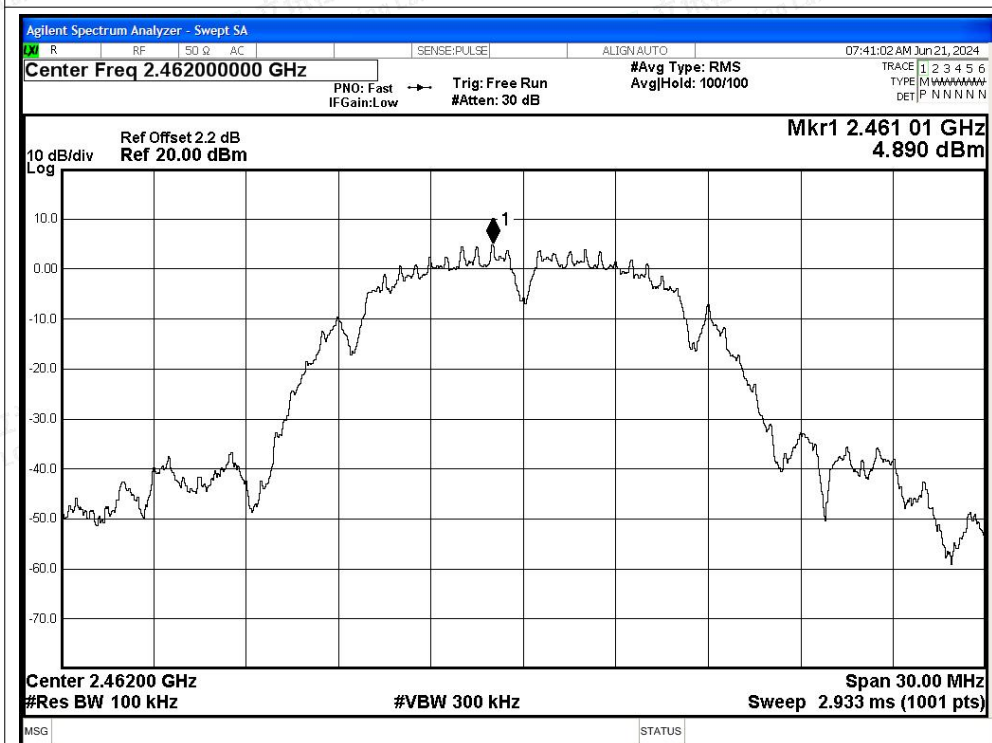
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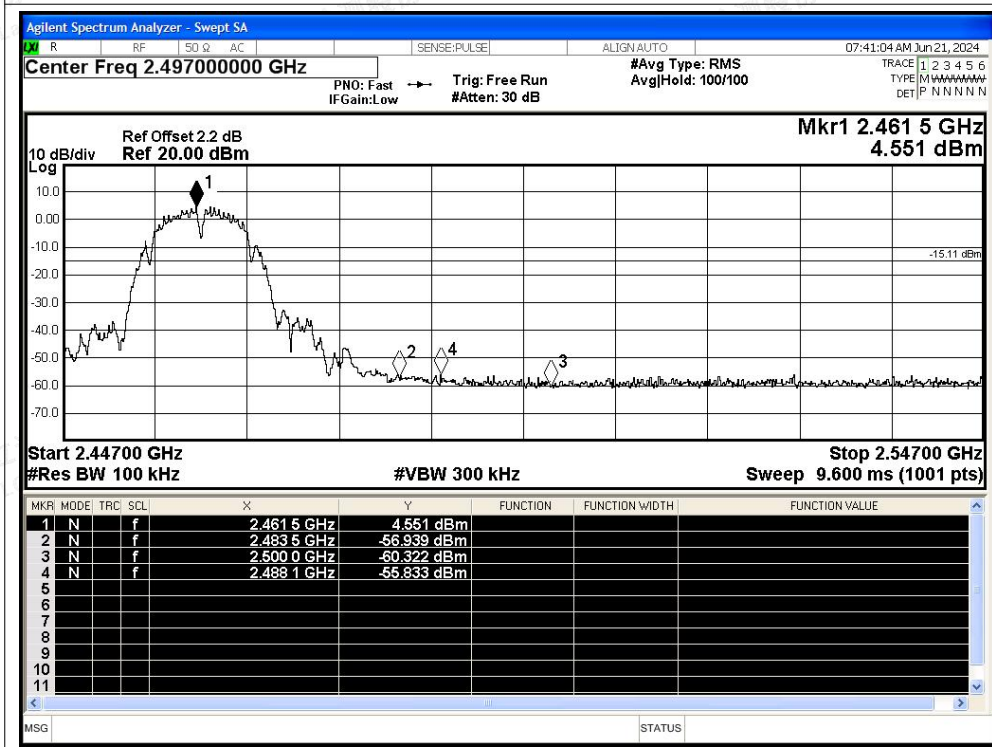
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Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission



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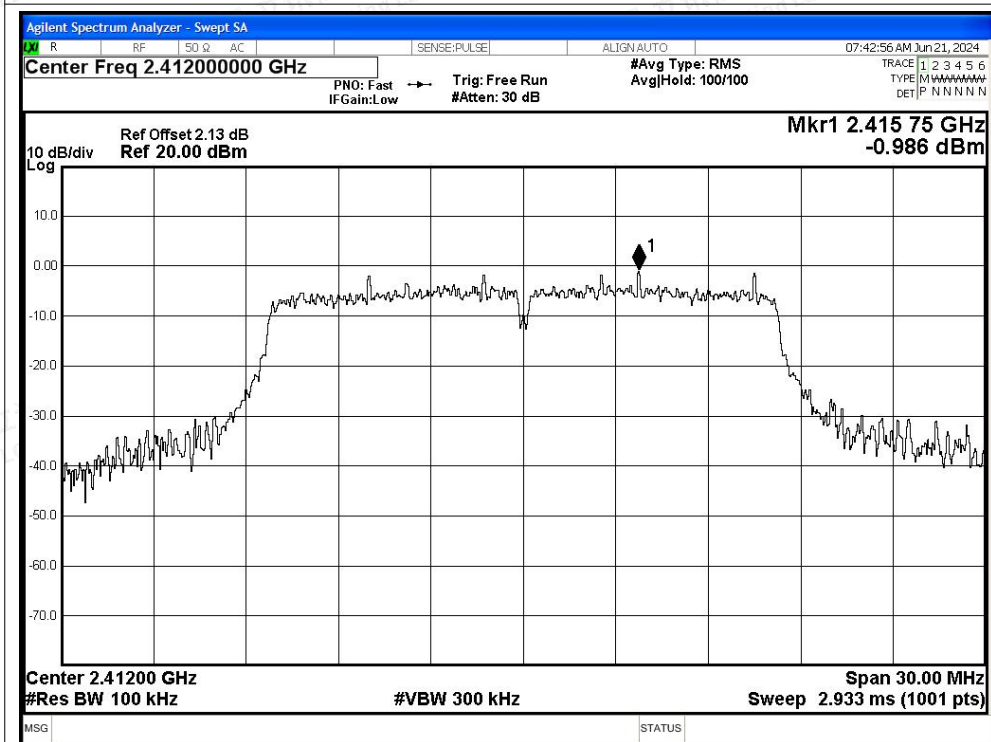
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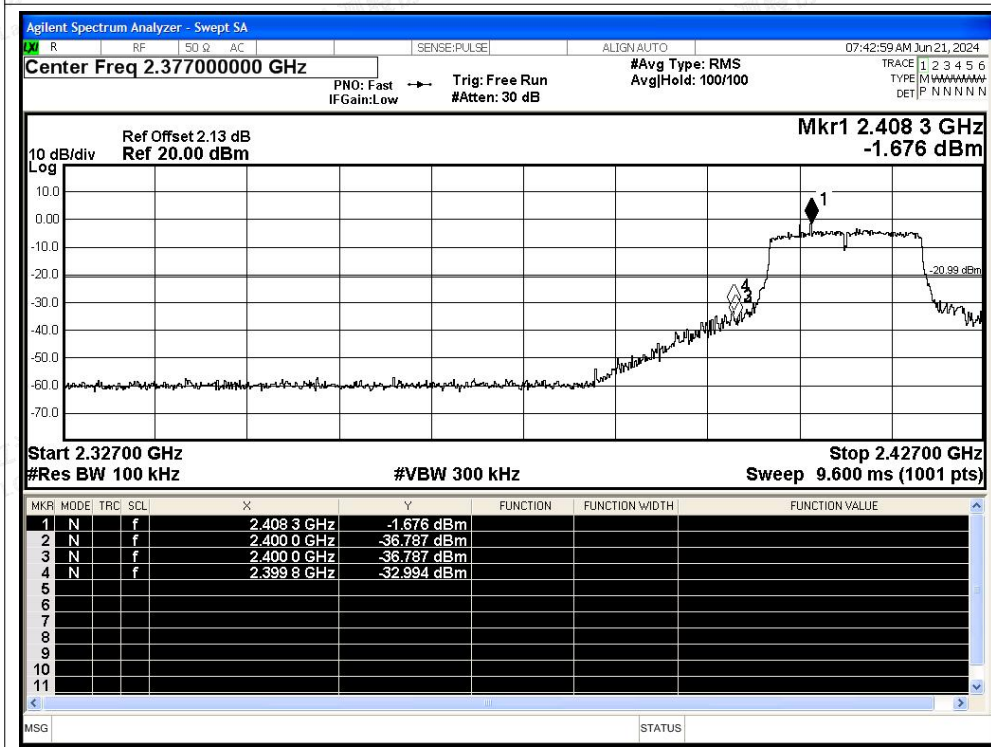
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Band Edge NVNT g 2412MHz Ant1 Ref

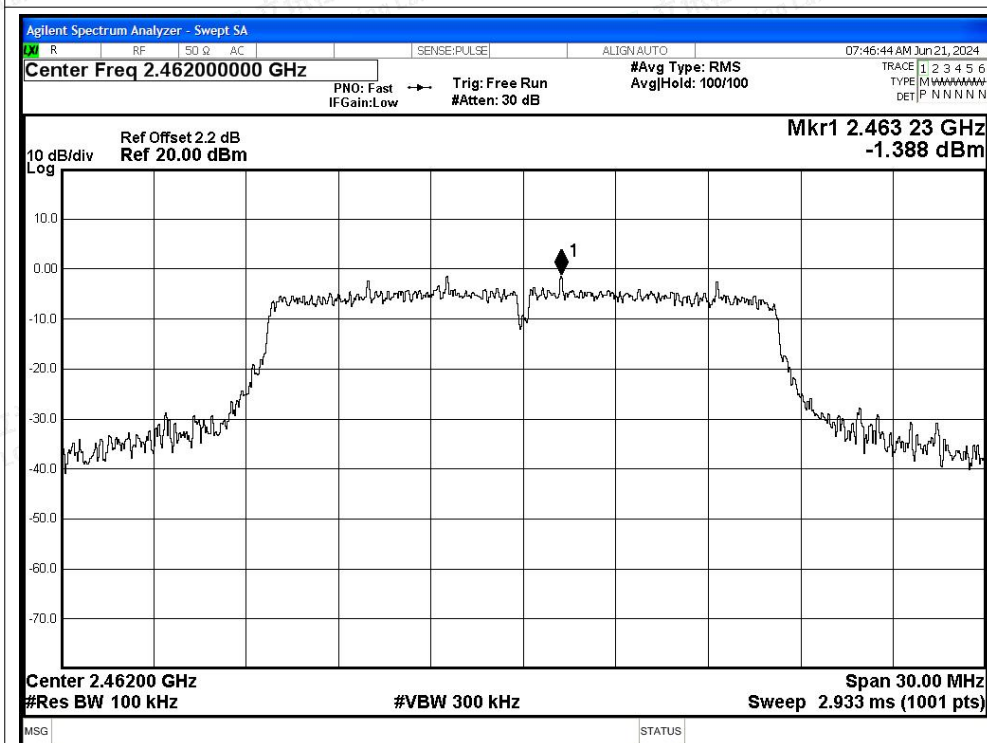


Band Edge NVNT g 2412MHz Ant1 Emission

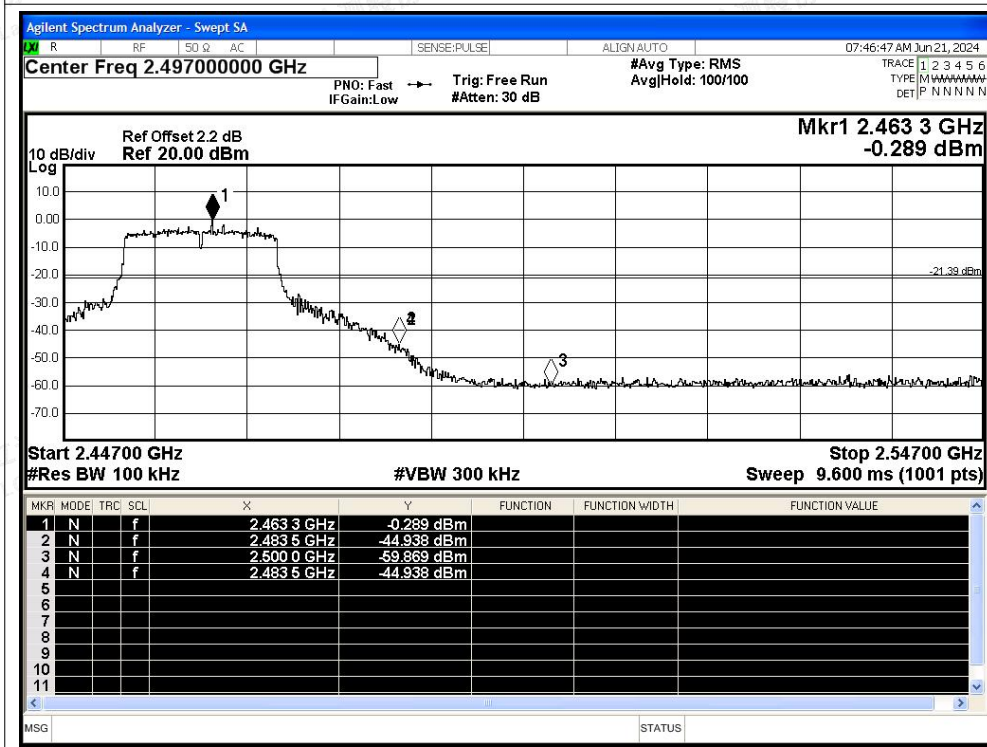




Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



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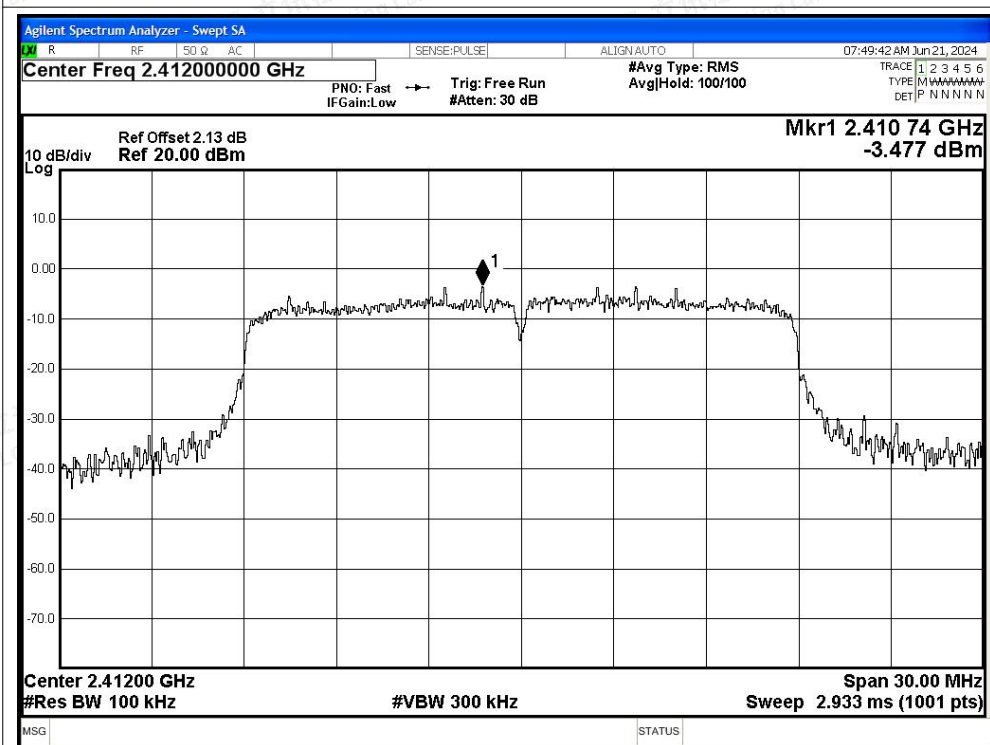
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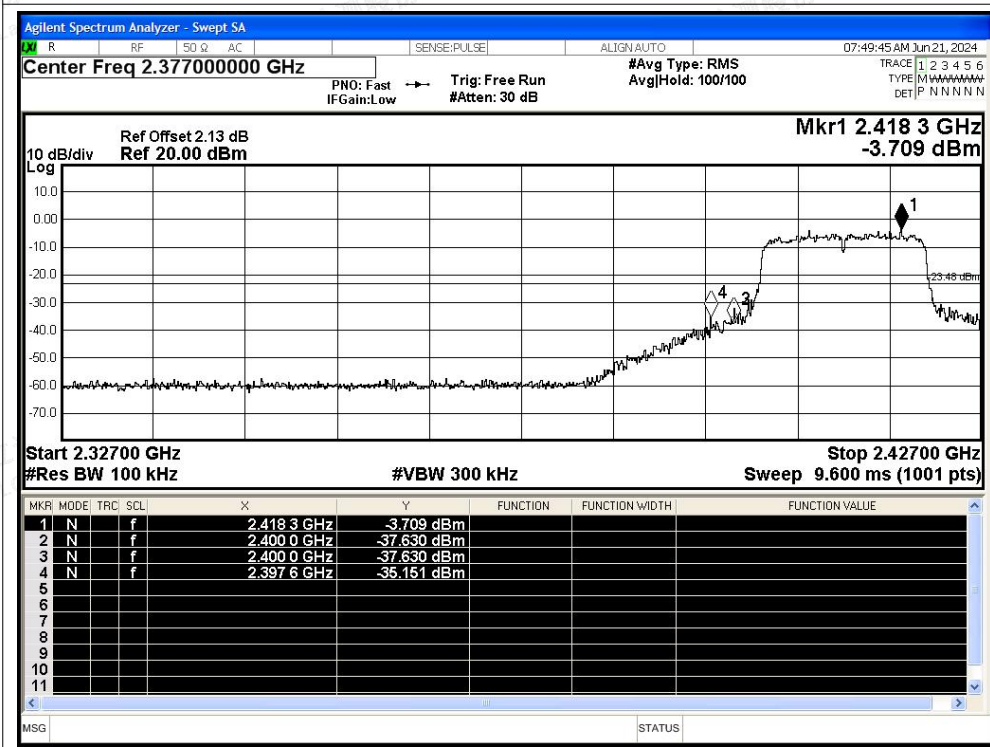
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Band Edge NVNT n20 2412MHz Ant1 Ref



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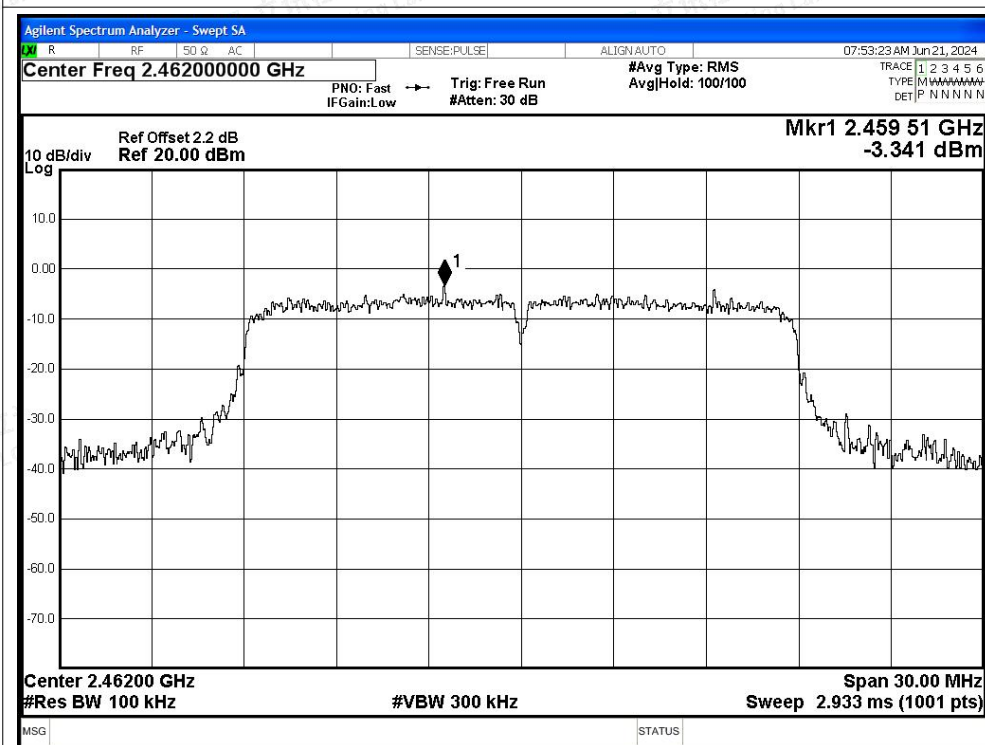
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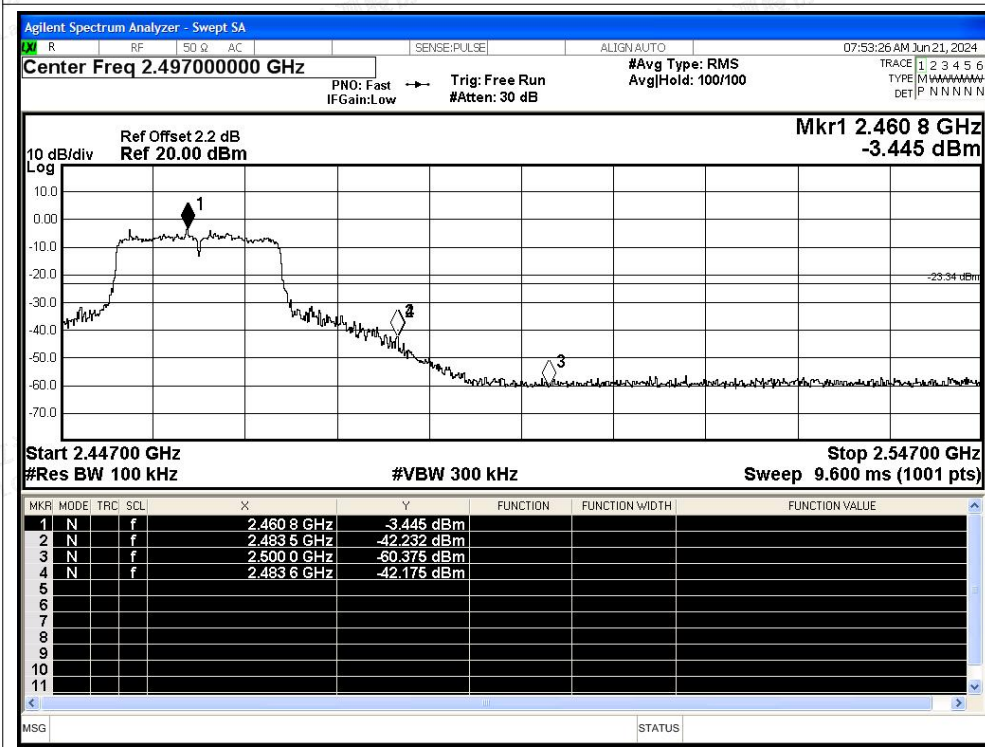
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Band Edge NVNT n20 2462MHz Ant1 Ref



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C.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.97	-20	Pass
NVNT	b	2437	Ant1	-52.28	-20	Pass
NVNT	b	2462	Ant1	-51.22	-20	Pass
NVNT	g	2412	Ant1	-45.19	-20	Pass
NVNT	g	2437	Ant1	-44.92	-20	Pass
NVNT	g	2462	Ant1	-44.86	-20	Pass
NVNT	n20	2412	Ant1	-42.59	-20	Pass
NVNT	n20	2437	Ant1	-43.38	-20	Pass
NVNT	n20	2462	Ant1	-41.11	-20	Pass



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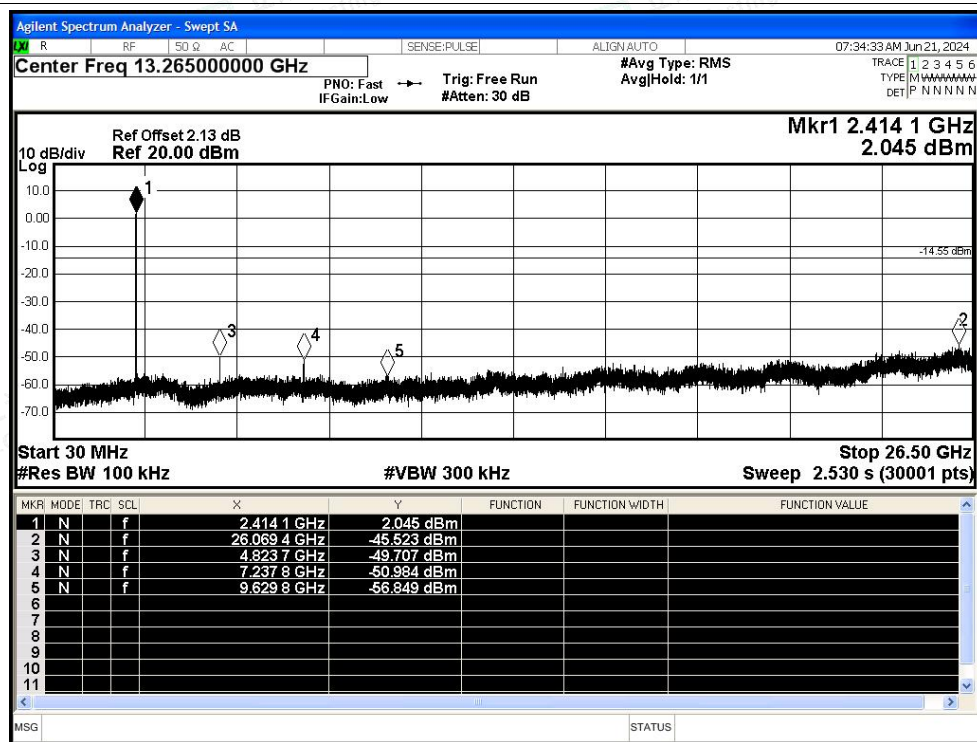


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



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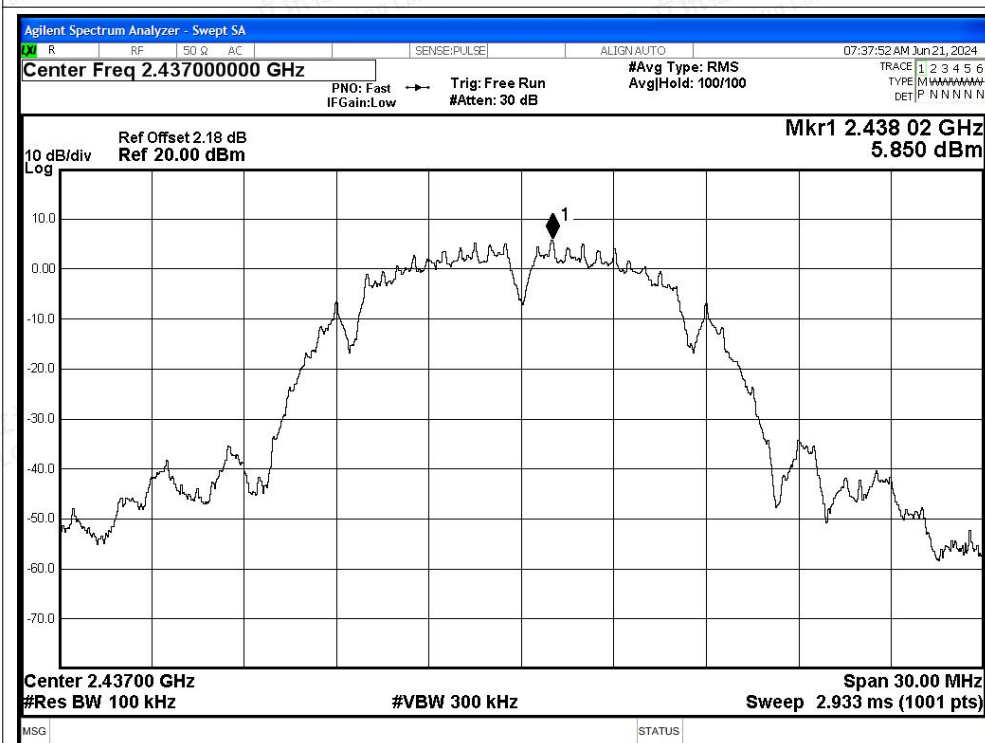
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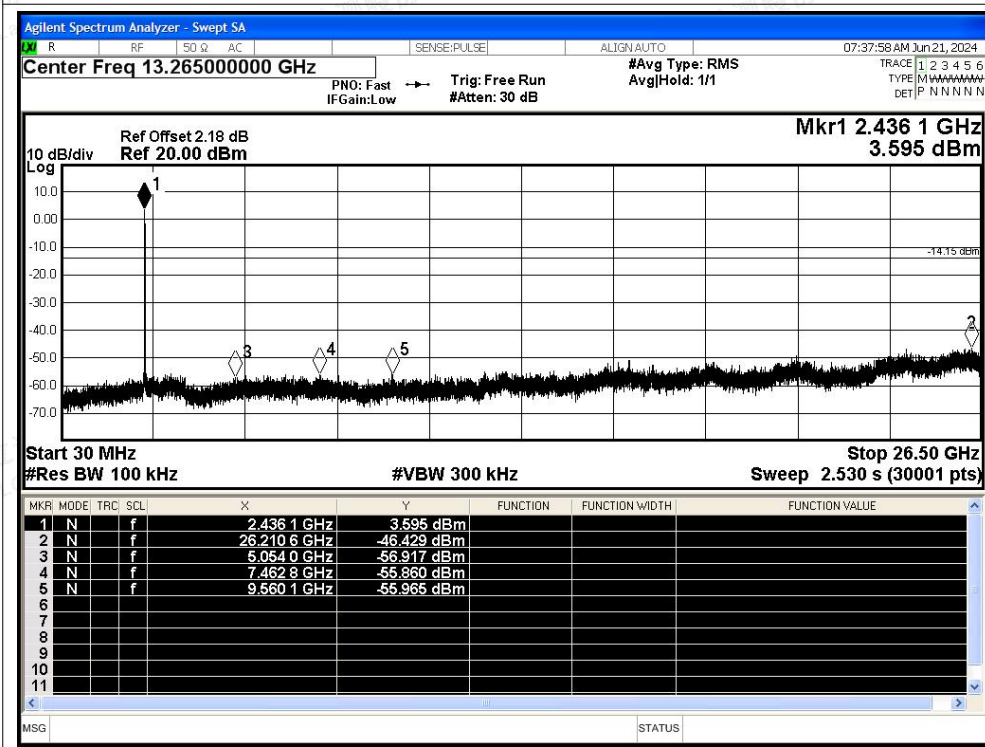
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Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



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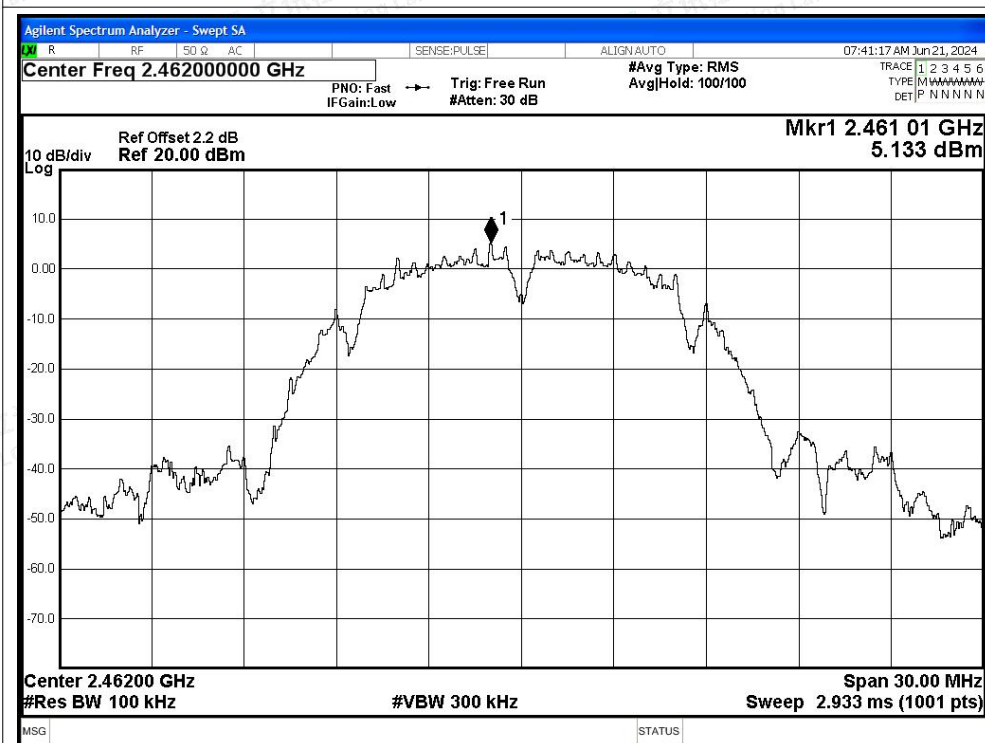
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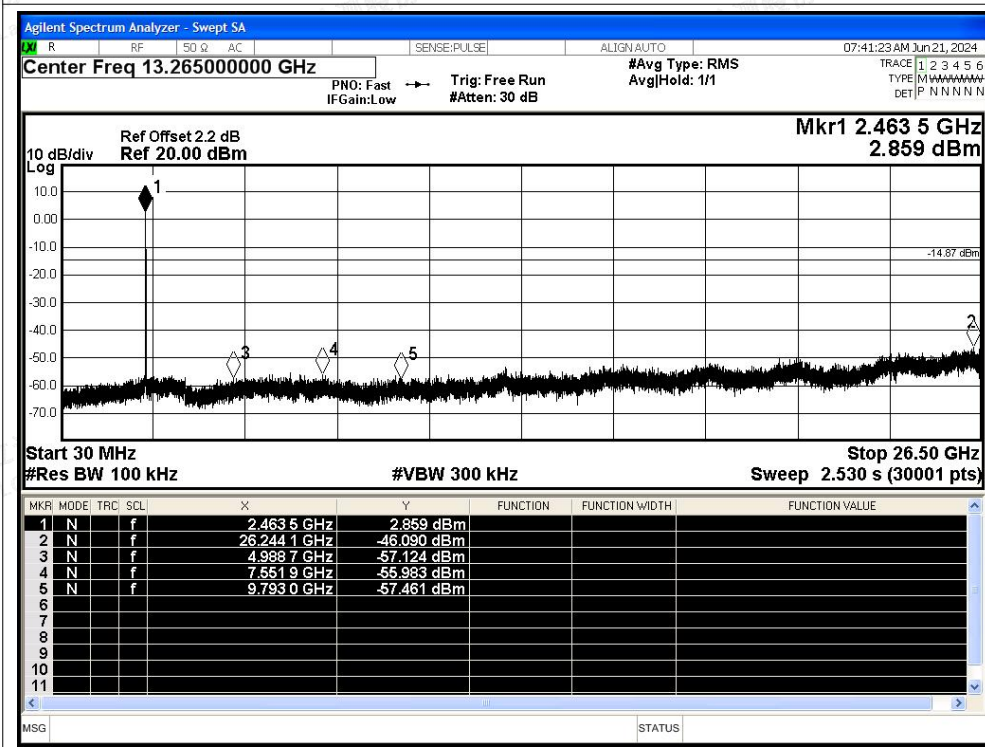
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