Appendix C

RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: laptop

Test Model: A1Pro

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng

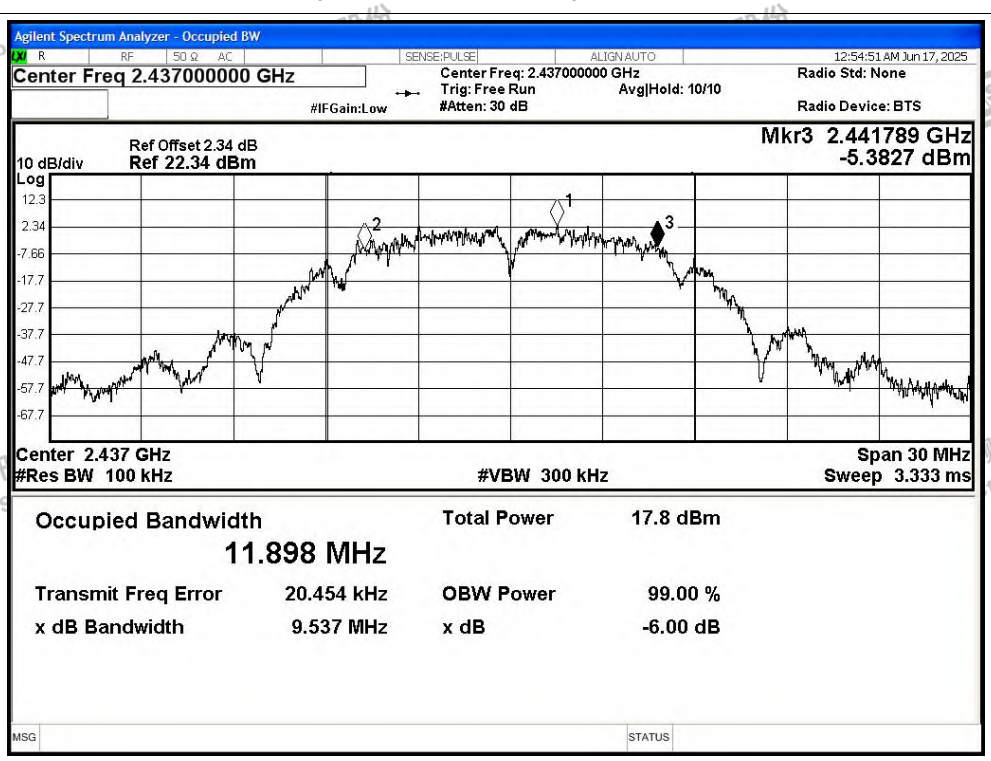
C.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.095	>=0.5	Pass
NVNT	b	2437	Ant1	9.537	>=0.5	Pass
NVNT	b	2462	Ant1	8.616	>=0.5	Pass
NVNT	g	2412	Ant1	16.44	>=0.5	Pass
NVNT	g	2437	Ant1	16.278	>=0.5	Pass
NVNT	g	2462	Ant1	16.33	>=0.5	Pass
NVNT	n20	2412	Ant1	17.121	>=0.5	Pass
NVNT	n20	2437	Ant1	17.494	>=0.5	Pass
NVNT	n20	2462	Ant1	16.961	>=0.5	Pass
NVNT	n40	2422	Ant1	34.192	>=0.5	Pass
NVNT	n40	2437	Ant1	34.167	>=0.5	Pass
NVNT	n40	2452	Ant1	35.745	>=0.5	Pass
NVNT	ax20	2412	Ant1	17.266	>=0.5	Pass
NVNT	ax20	2437	Ant1	17.296	>=0.5	Pass
NVNT	ax20	2462	Ant1	17.1	>=0.5	Pass
NVNT	ax40	2422	Ant1	34.599	>=0.5	Pass
NVNT	ax40	2437	Ant1	35.469	>=0.5	Pass
NVNT	ax40	2452	Ant1	35.358	>=0.5	Pass

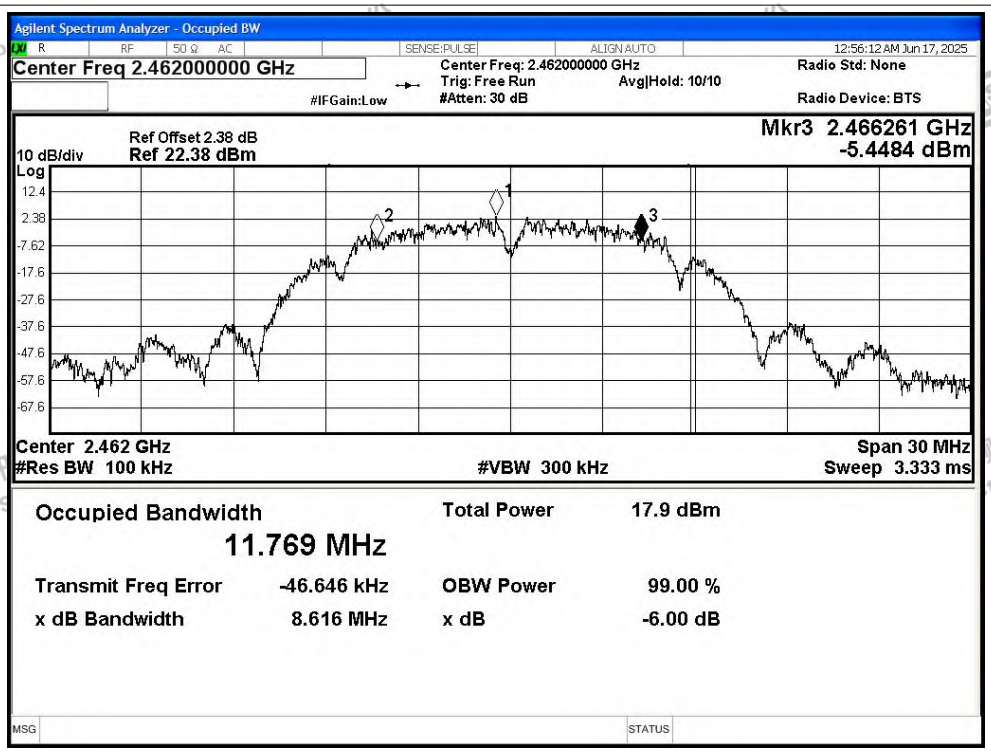
Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

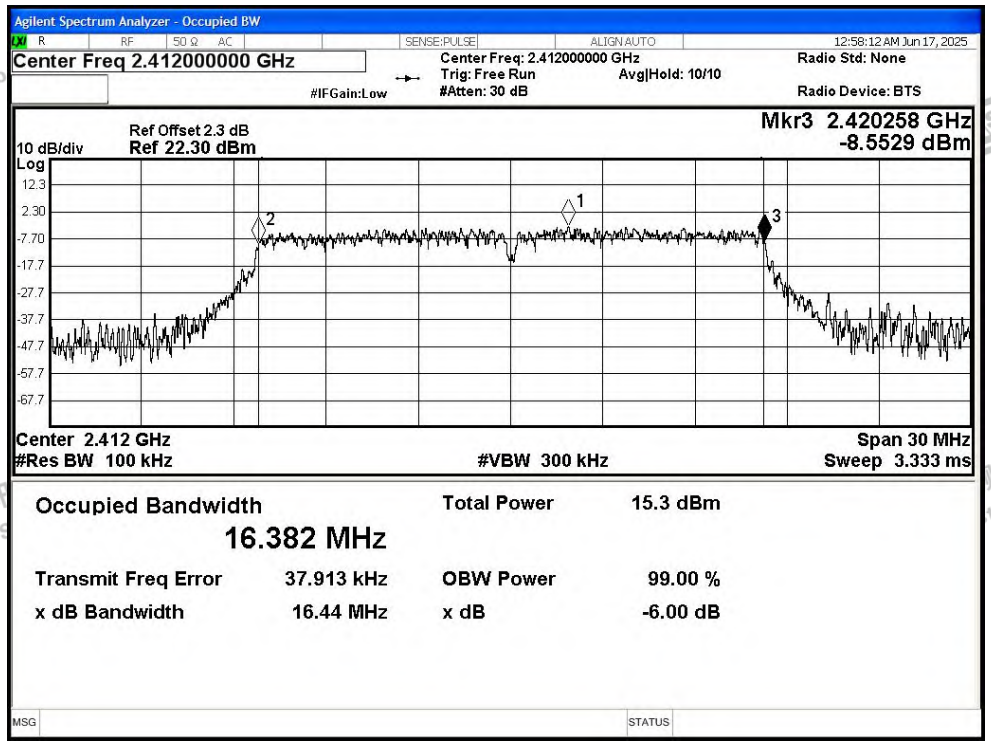
-6dB Bandwidth NVNT b 2437MHz Ant1



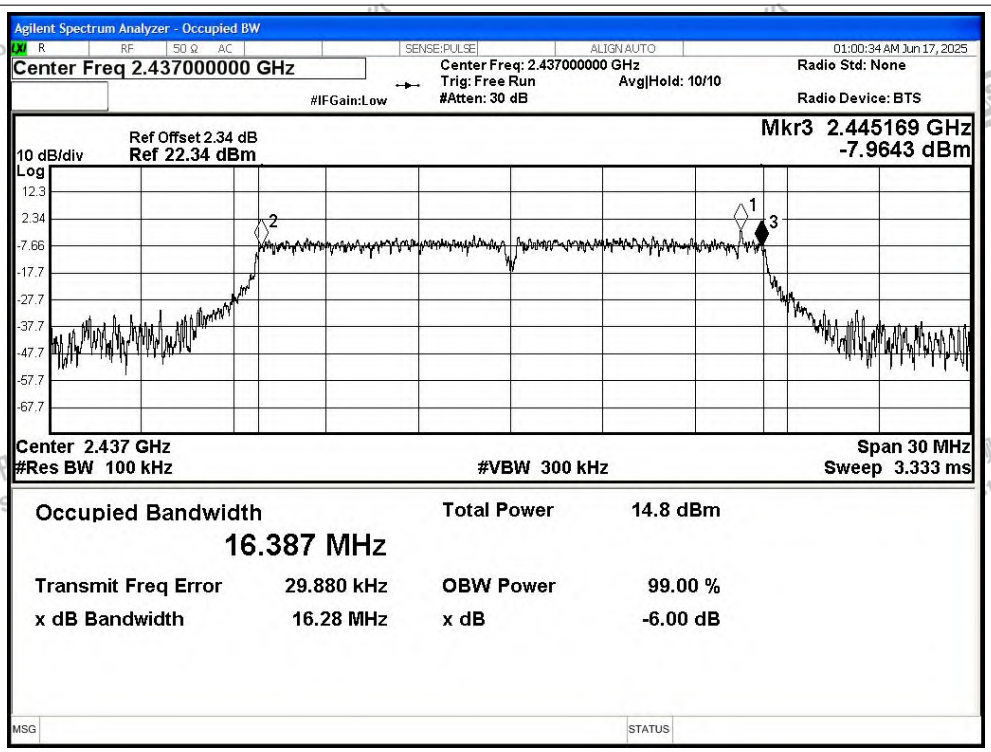
-6dB Bandwidth NVNT b 2462MHz Ant1



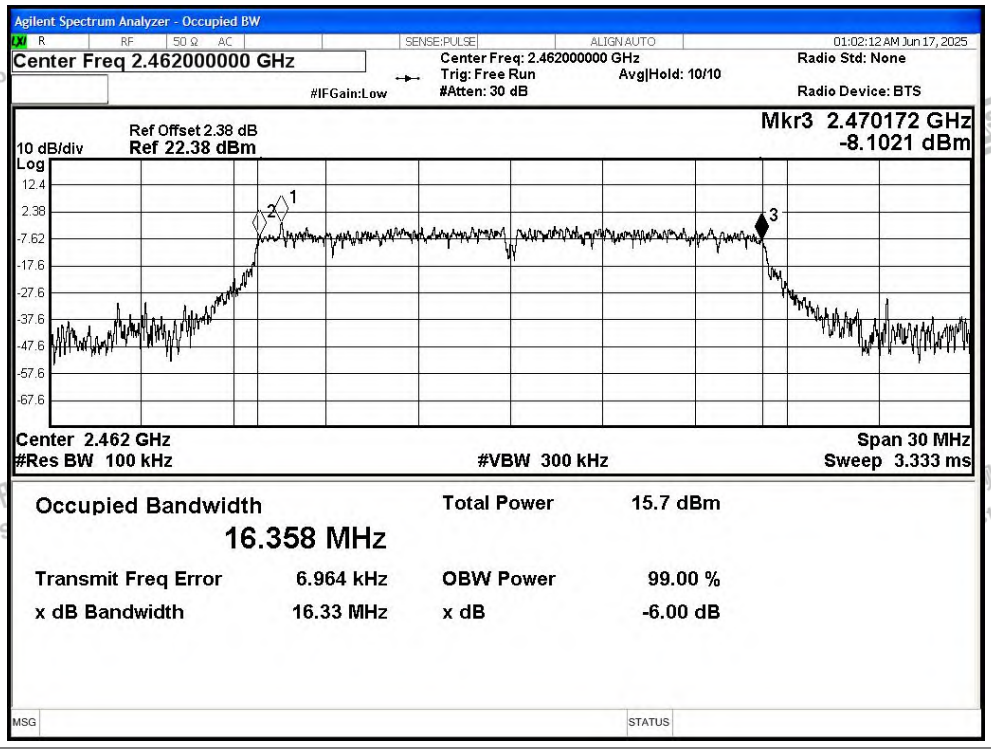
-6dB Bandwidth NVNT g 2412MHz Ant1



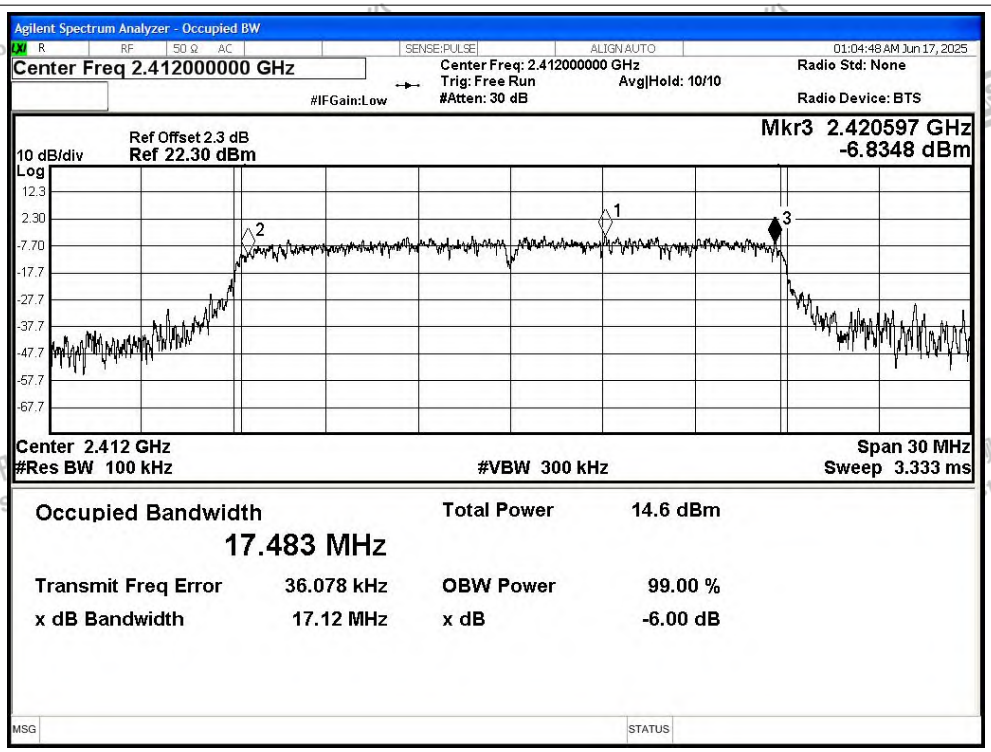
-6dB Bandwidth NVNT g 2437MHz Ant1



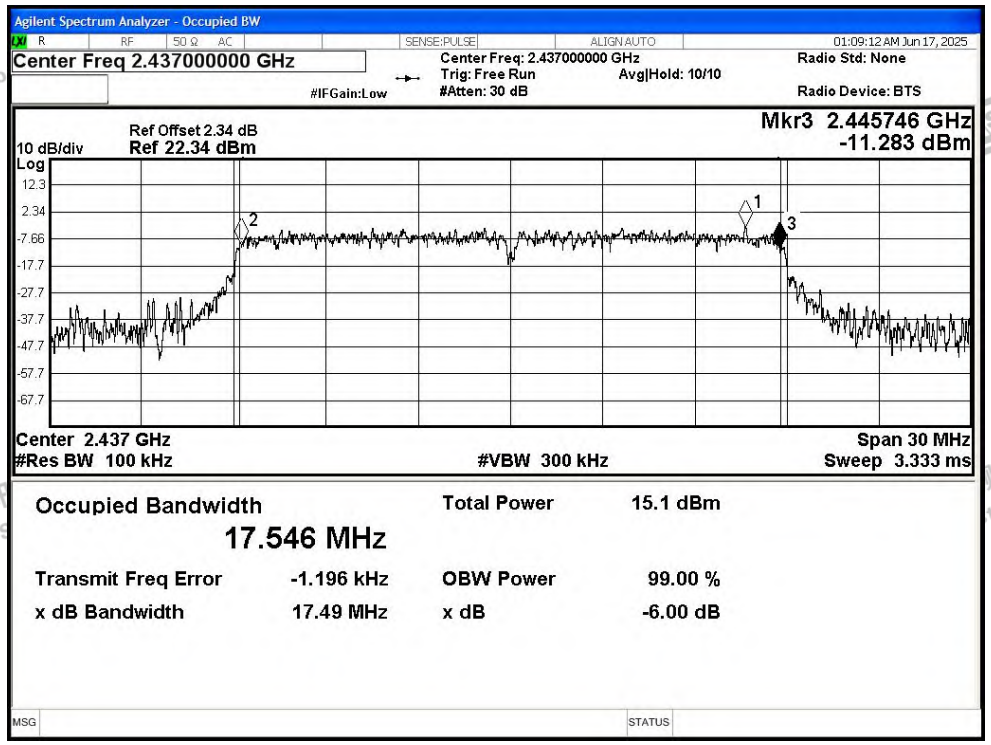
-6dB Bandwidth NVNT g 2462MHz Ant1



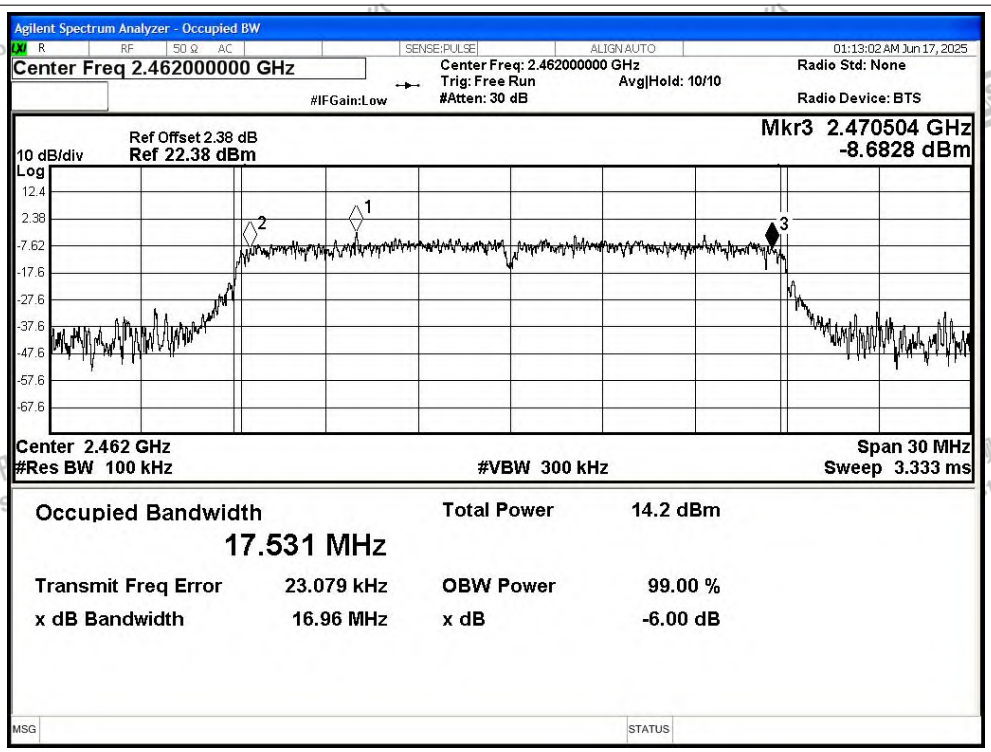
-6dB Bandwidth NVNT n20 2412MHz Ant1



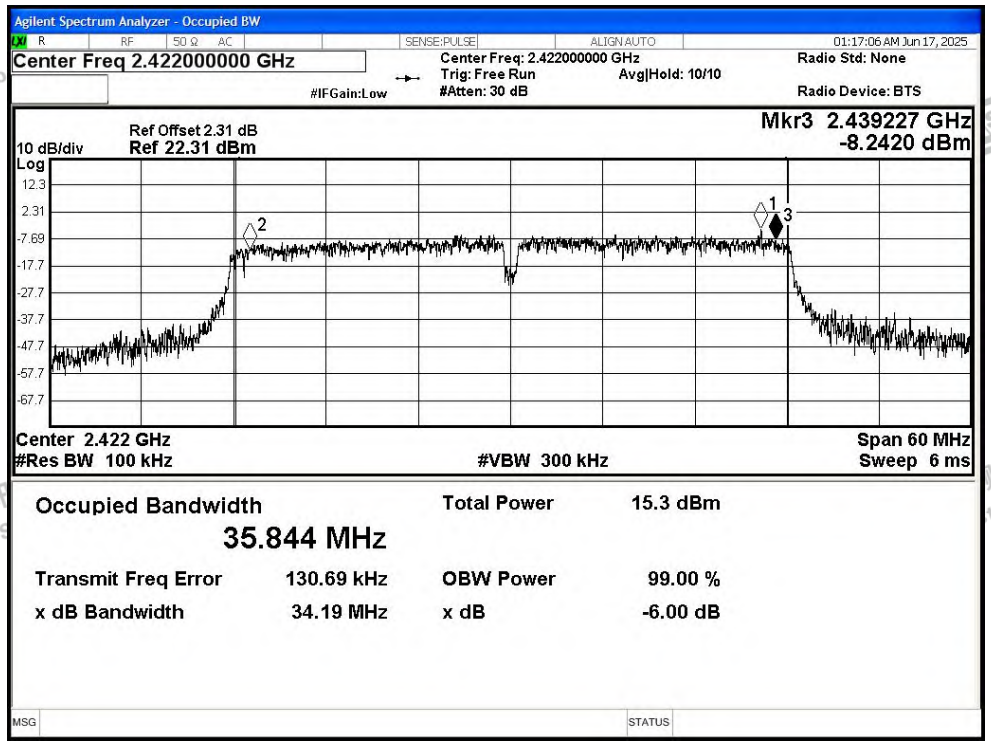
-6dB Bandwidth NVNT n20 2437MHz Ant1



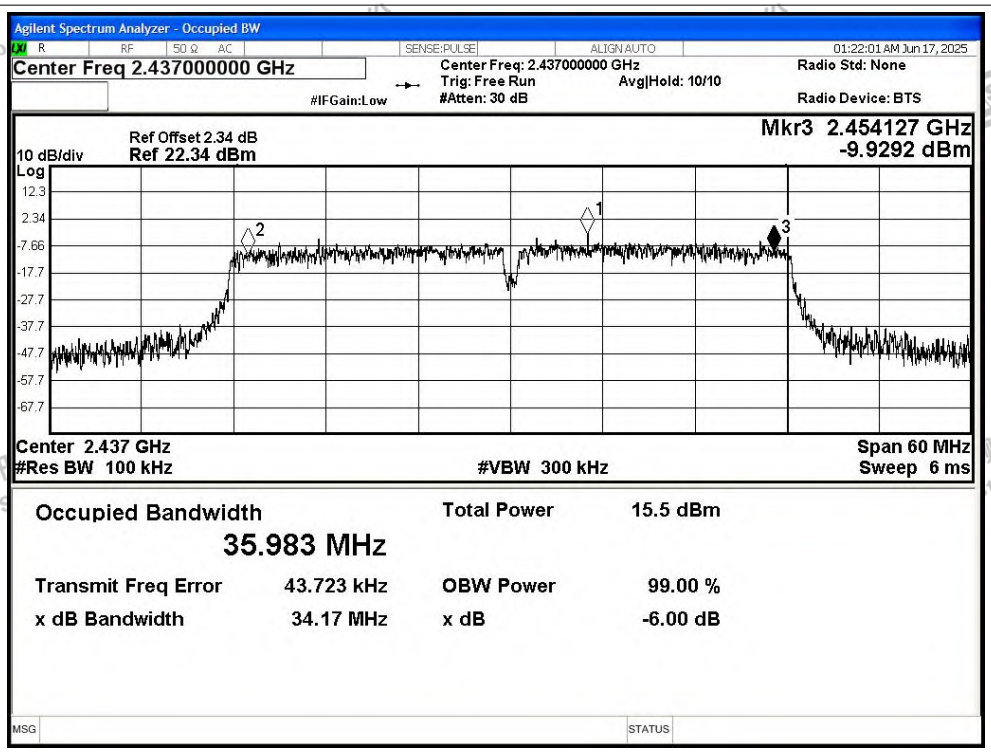
-6dB Bandwidth NVNT n20 2462MHz Ant1



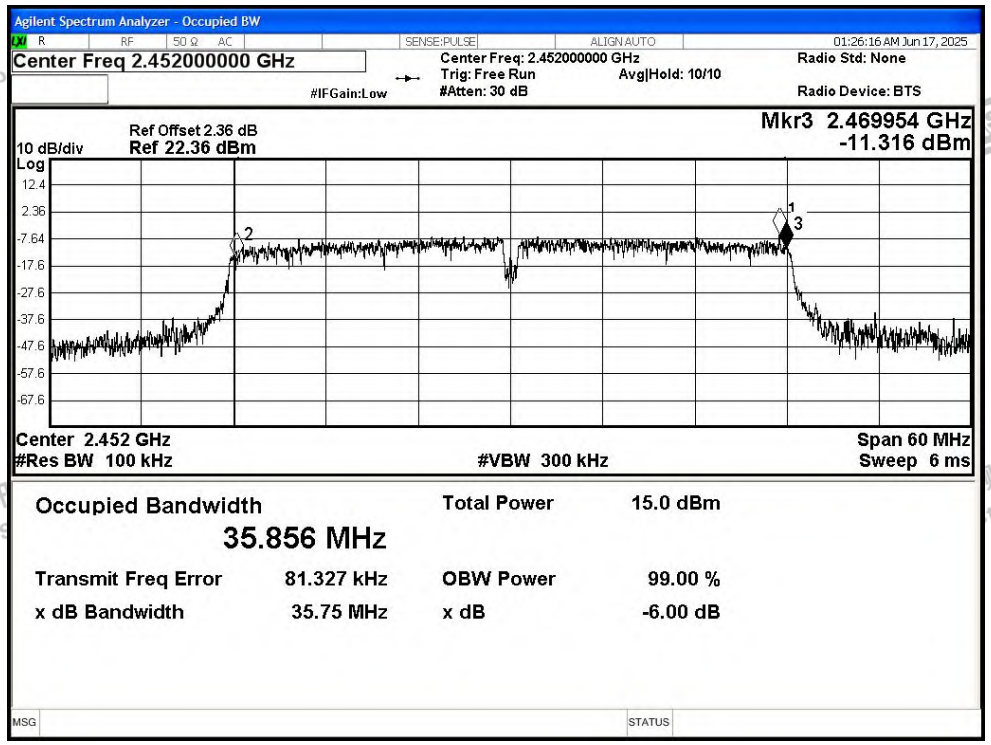
-6dB Bandwidth NVNT n40 2422MHz Ant1



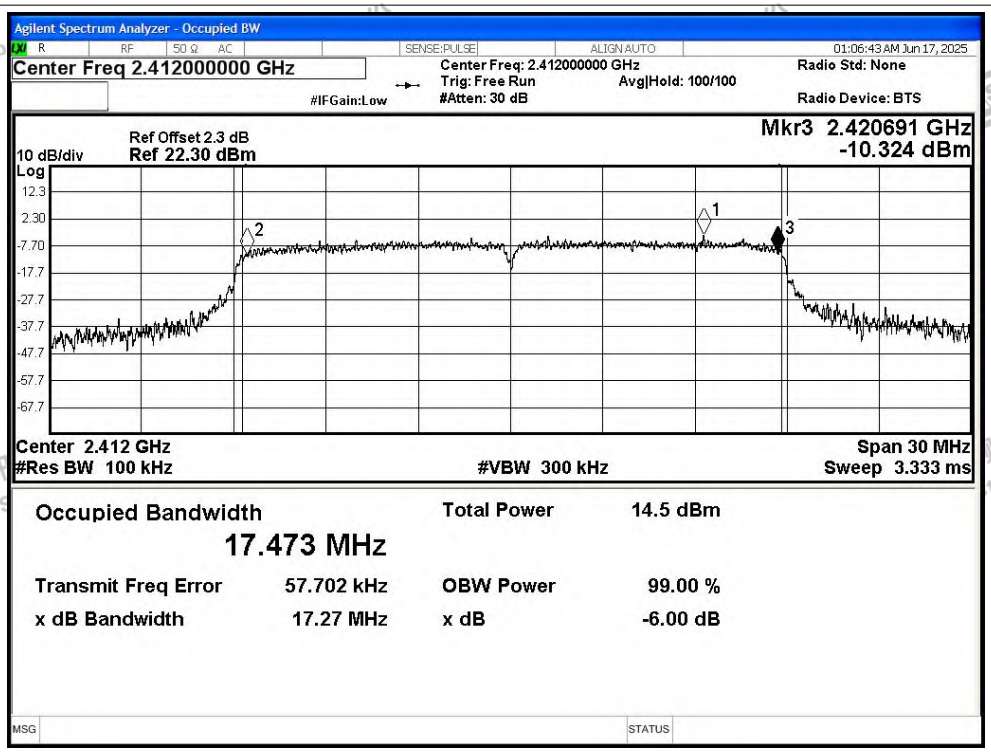
-6dB Bandwidth NVNT n40 2437MHz Ant1



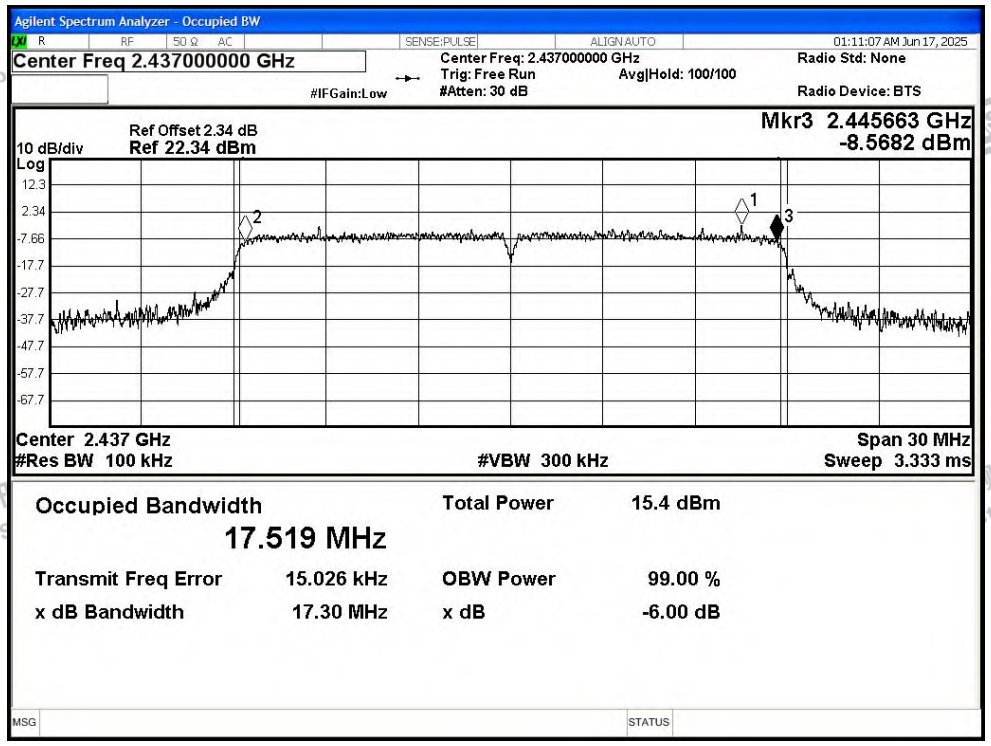
-6dB Bandwidth NVNT n40 2452MHz Ant1



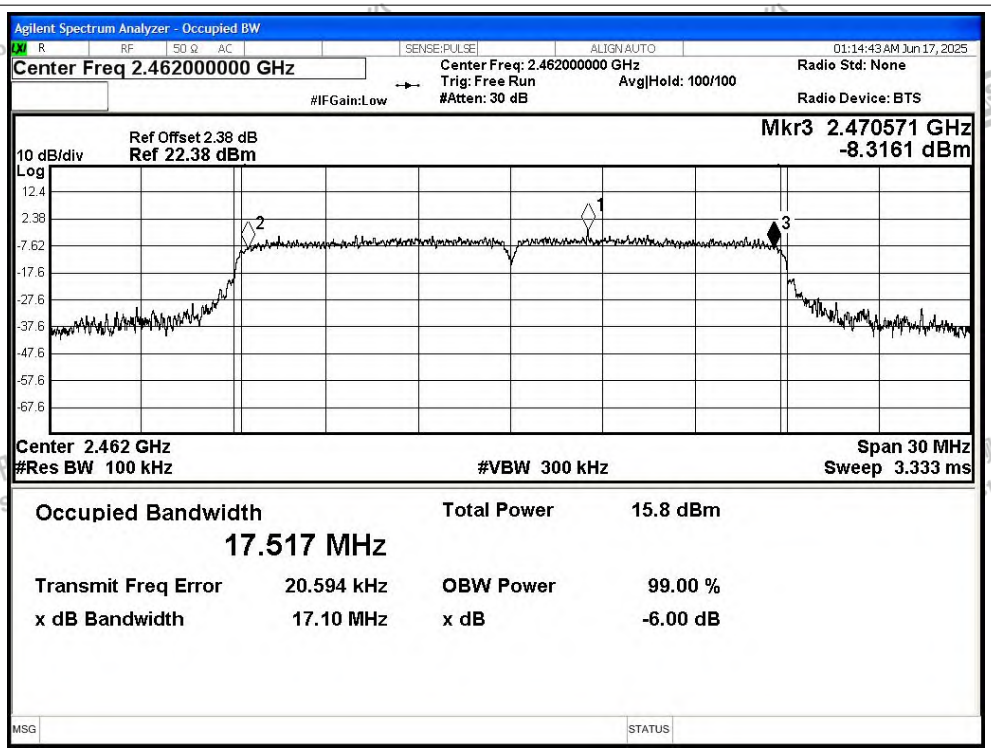
-6dB Bandwidth NVNT ax20 2412MHz Ant1



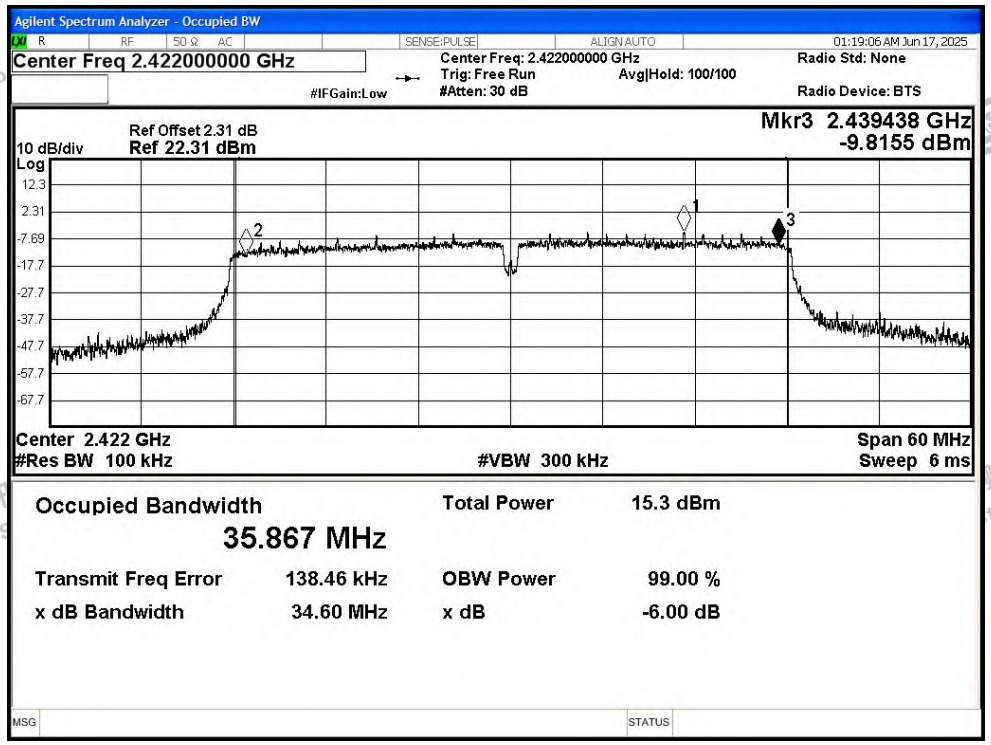
-6dB Bandwidth NVNT ax20 2437MHz Ant1



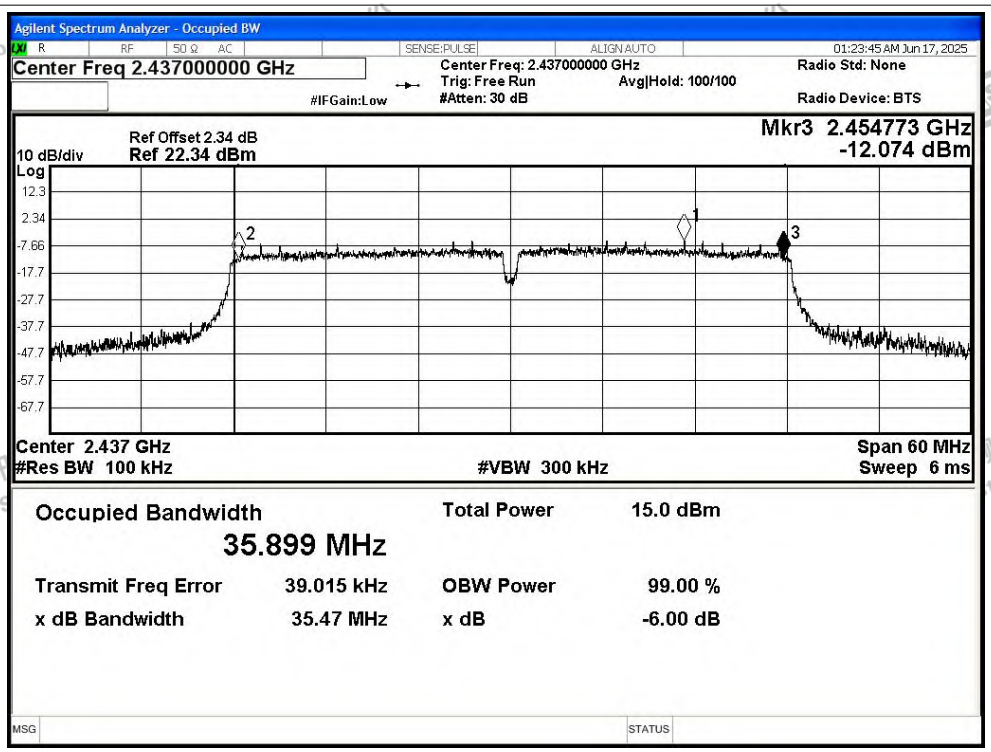
-6dB Bandwidth NVNT ax20 2462MHz Ant1



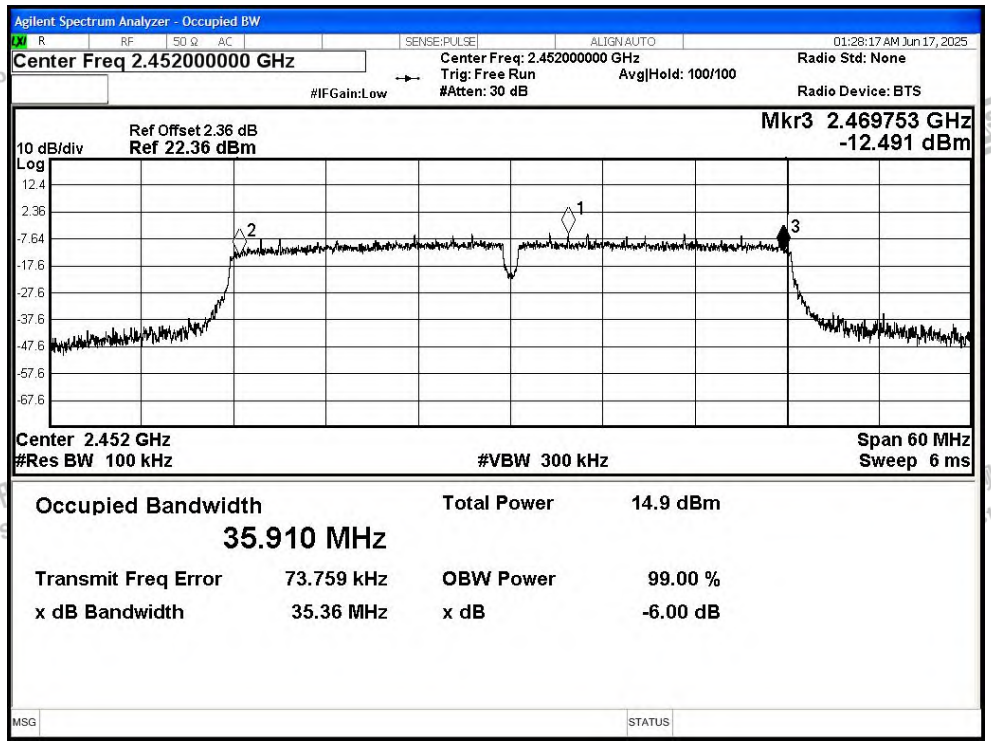
-6dB Bandwidth NVNT ax40 2422MHz Ant1



-6dB Bandwidth NVNT ax40 2437MHz Ant1



-6dB Bandwidth NVNT ax40 2452MHz Ant1



C.2 Maximum Peak Conducted Output Power

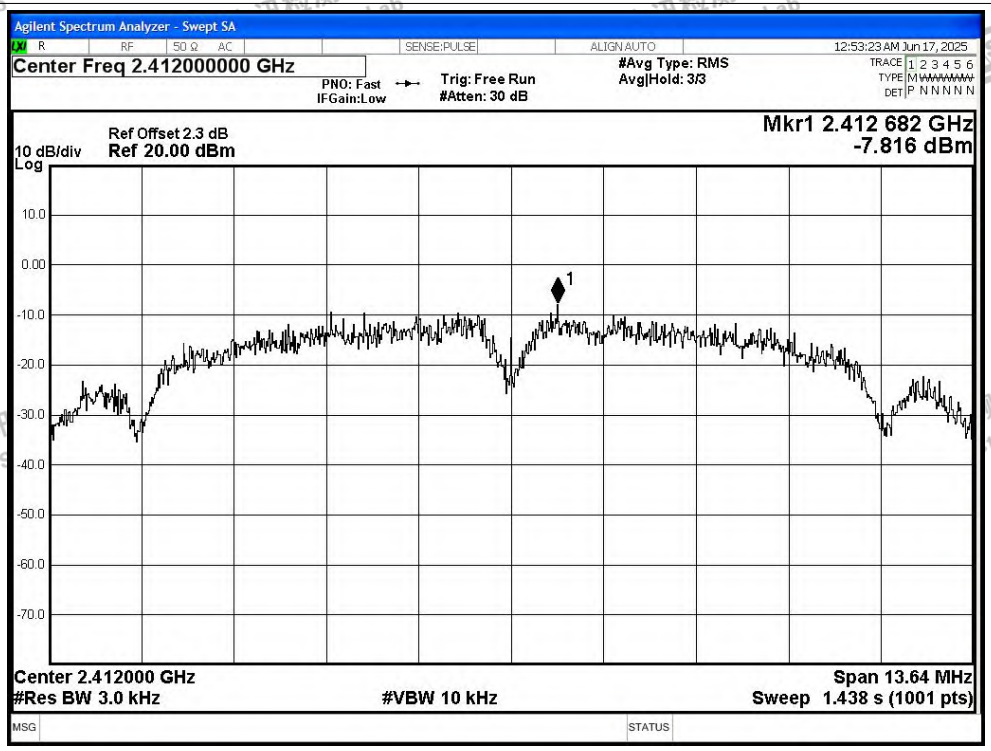
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.22	30	Pass
NVNT	b	2437	Ant1	14.4	30	Pass
NVNT	b	2462	Ant1	14.46	30	Pass
NVNT	g	2412	Ant1	14.04	30	Pass
NVNT	g	2437	Ant1	13.45	30	Pass
NVNT	g	2462	Ant1	14.37	30	Pass
NVNT	n20	2412	Ant1	13.19	30	Pass
NVNT	n20	2437	Ant1	13.52	30	Pass
NVNT	n20	2462	Ant1	14.39	30	Pass
NVNT	n40	2422	Ant1	13.69	30	Pass
NVNT	n40	2437	Ant1	13.85	30	Pass
NVNT	n40	2452	Ant1	13.27	30	Pass
NVNT	ax20	2412	Ant1	13.16	30	Pass
NVNT	ax20	2437	Ant1	14.12	30	Pass
NVNT	ax20	2462	Ant1	14.43	30	Pass
NVNT	ax40	2422	Ant1	13.68	30	Pass
NVNT	ax40	2437	Ant1	13.61	30	Pass
NVNT	ax40	2452	Ant1	13.31	30	Pass

C.3 Maximum Power Spectral Density Level

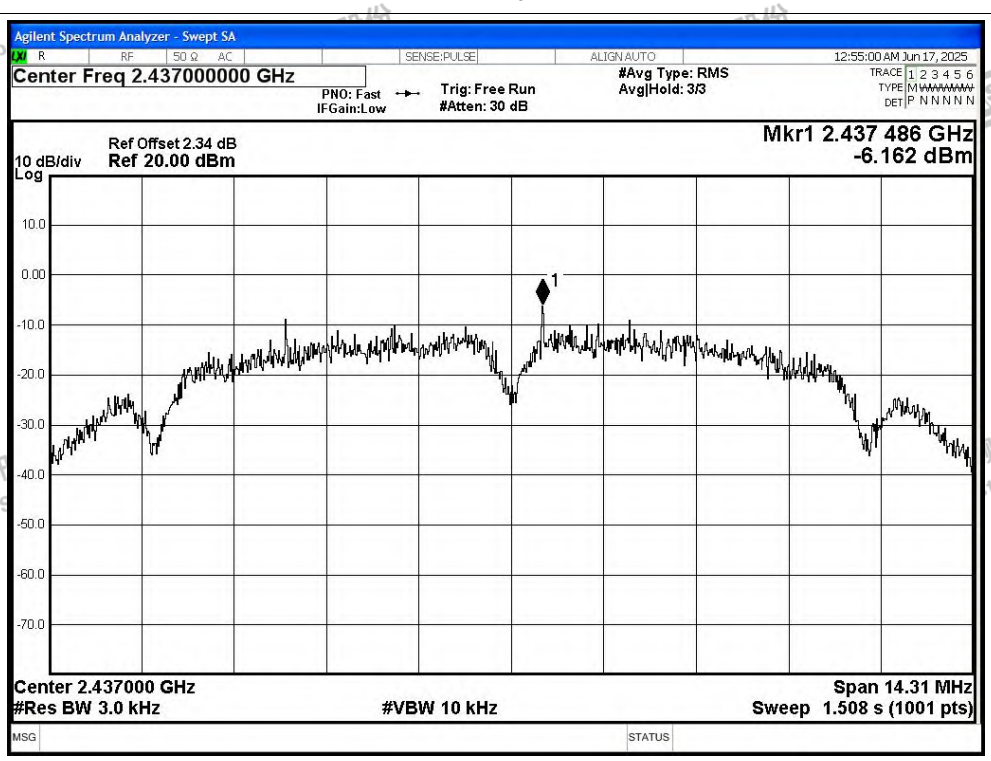
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-7.82	8	Pass
NVNT	b	2437	Ant1	-6.16	8	Pass
NVNT	b	2462	Ant1	-8.47	8	Pass
NVNT	g	2412	Ant1	-14.87	8	Pass
NVNT	g	2437	Ant1	-15.72	8	Pass
NVNT	g	2462	Ant1	-14.65	8	Pass
NVNT	n20	2412	Ant1	-15.28	8	Pass
NVNT	n20	2437	Ant1	-14.92	8	Pass
NVNT	n20	2462	Ant1	-16.02	8	Pass
NVNT	n40	2422	Ant1	-18.7	8	Pass
NVNT	n40	2437	Ant1	-17.46	8	Pass
NVNT	n40	2452	Ant1	-18.56	8	Pass
NVNT	ax20	2412	Ant1	-16.98	8	Pass
NVNT	ax20	2437	Ant1	-16.1	8	Pass
NVNT	ax20	2462	Ant1	-15.07	8	Pass
NVNT	ax40	2422	Ant1	-18.58	8	Pass
NVNT	ax40	2437	Ant1	-19.74	8	Pass
NVNT	ax40	2452	Ant1	-19.95	8	Pass

Test Graphs

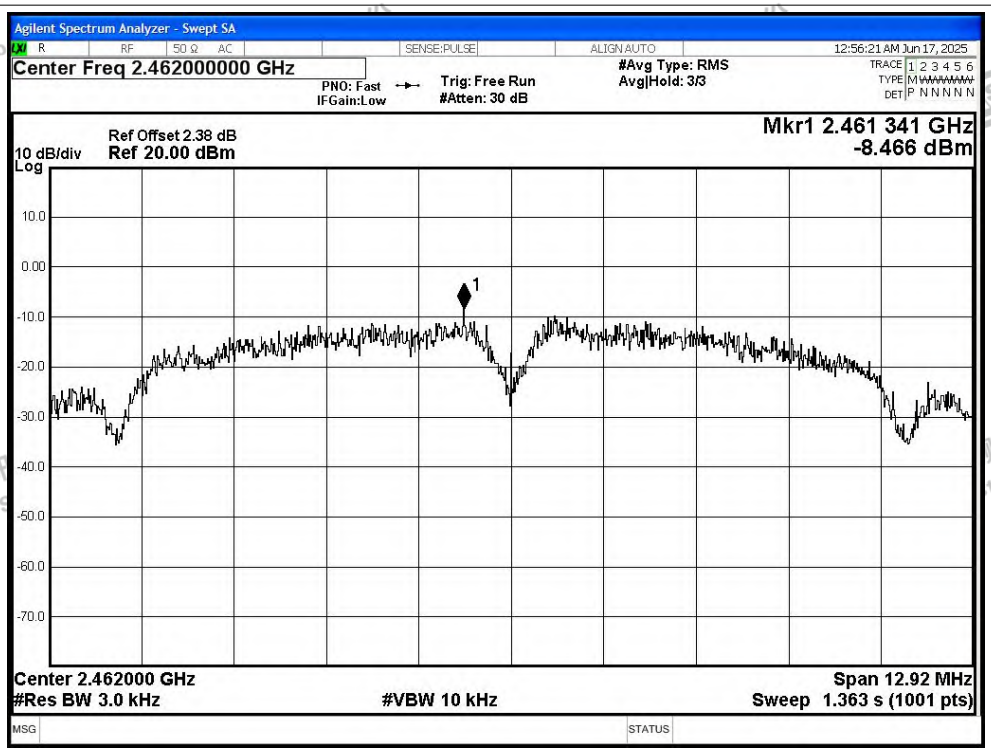
PSD NVNT b 2412MHz Ant1



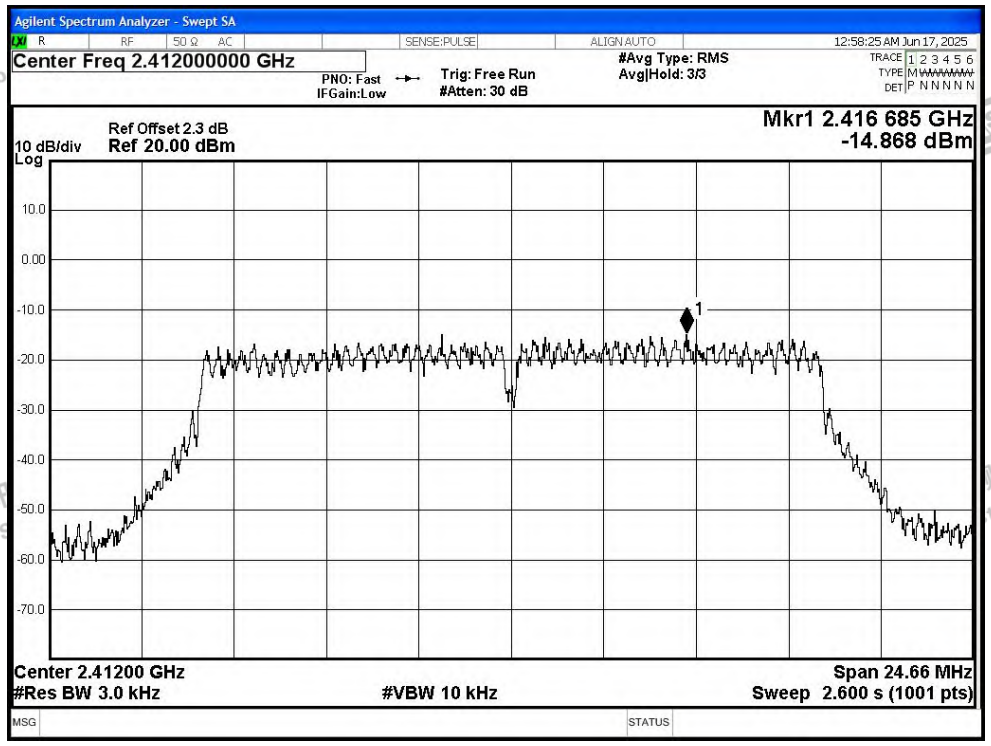
PSD NVNT b 2437MHz Ant1



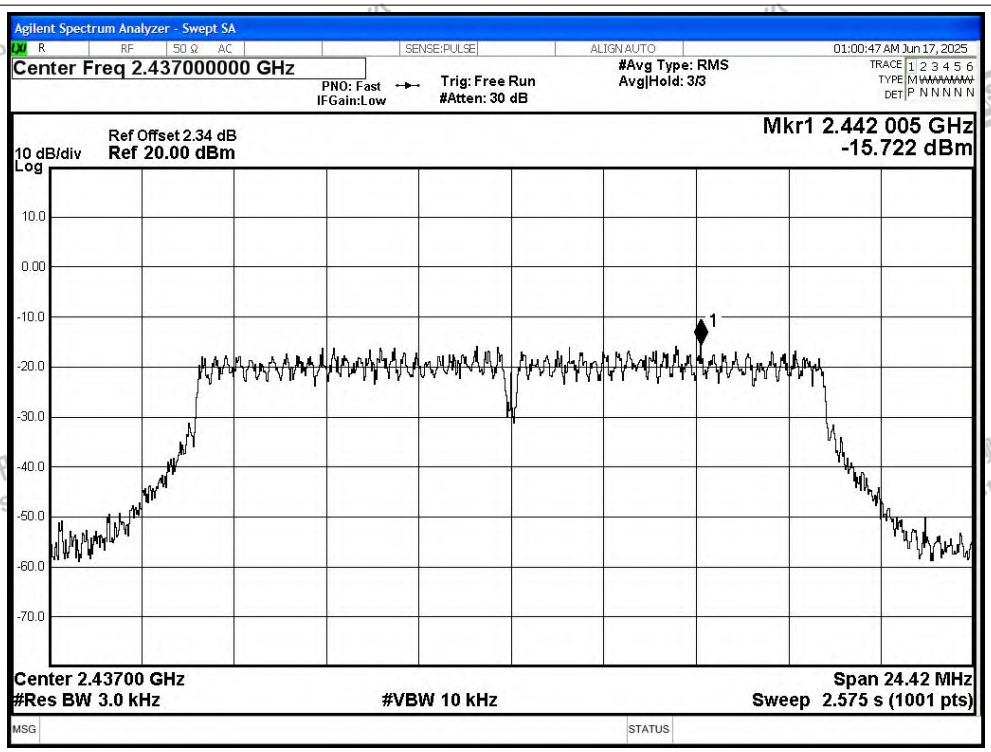
PSD NVNT b 2462MHz Ant1



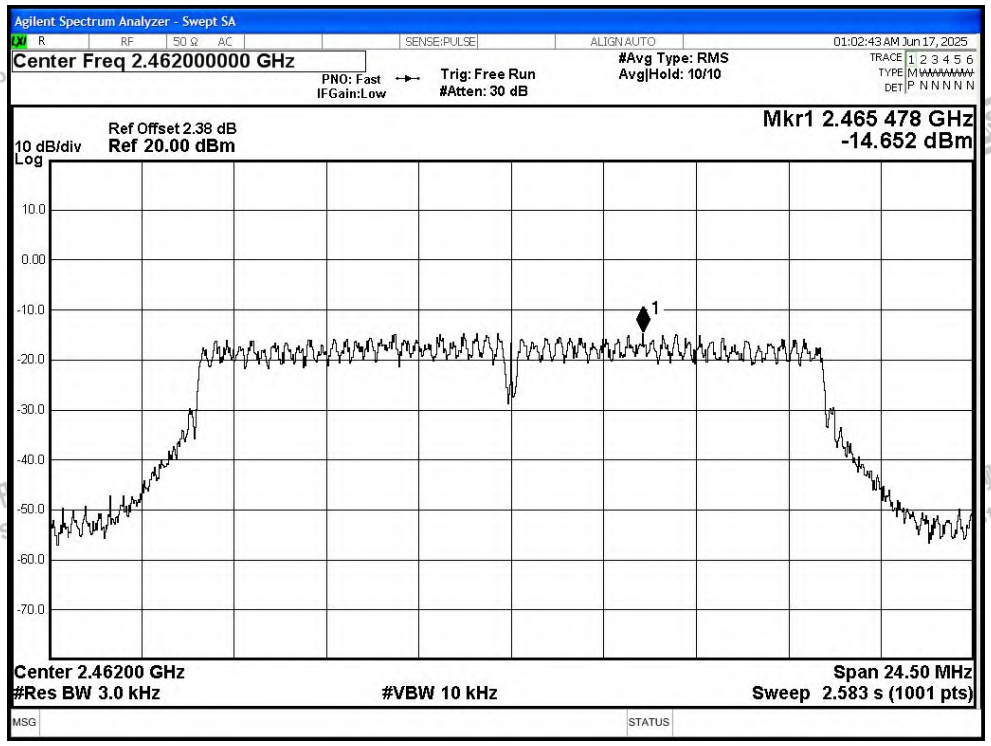
PSD NVNT g 2412MHz Ant1



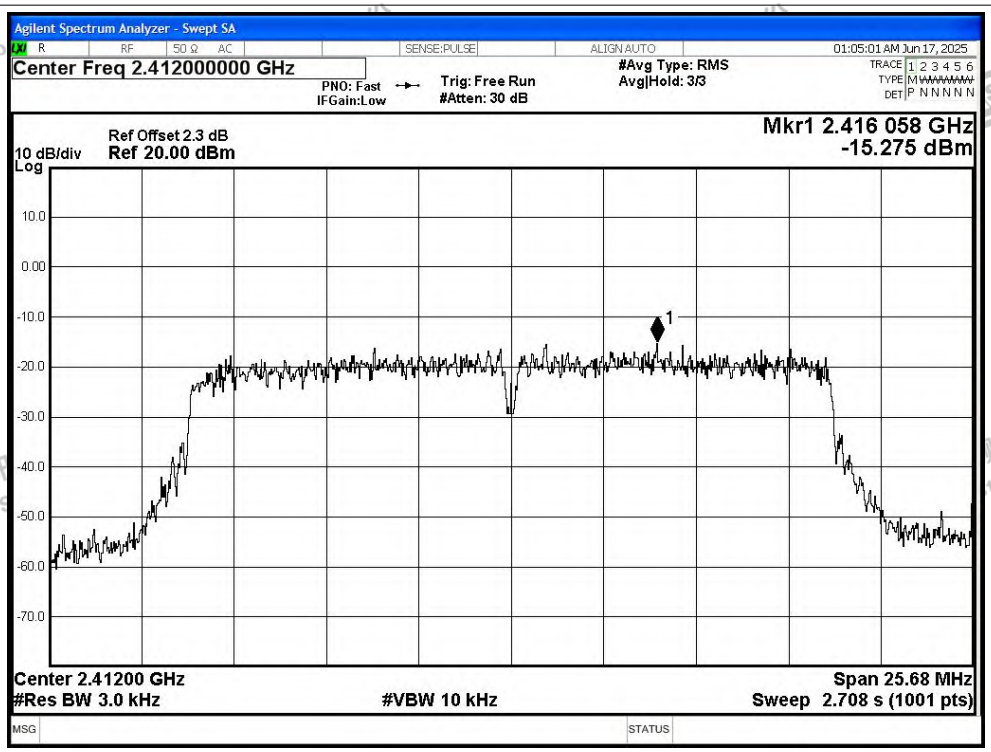
PSD NVNT g 2437MHz Ant1



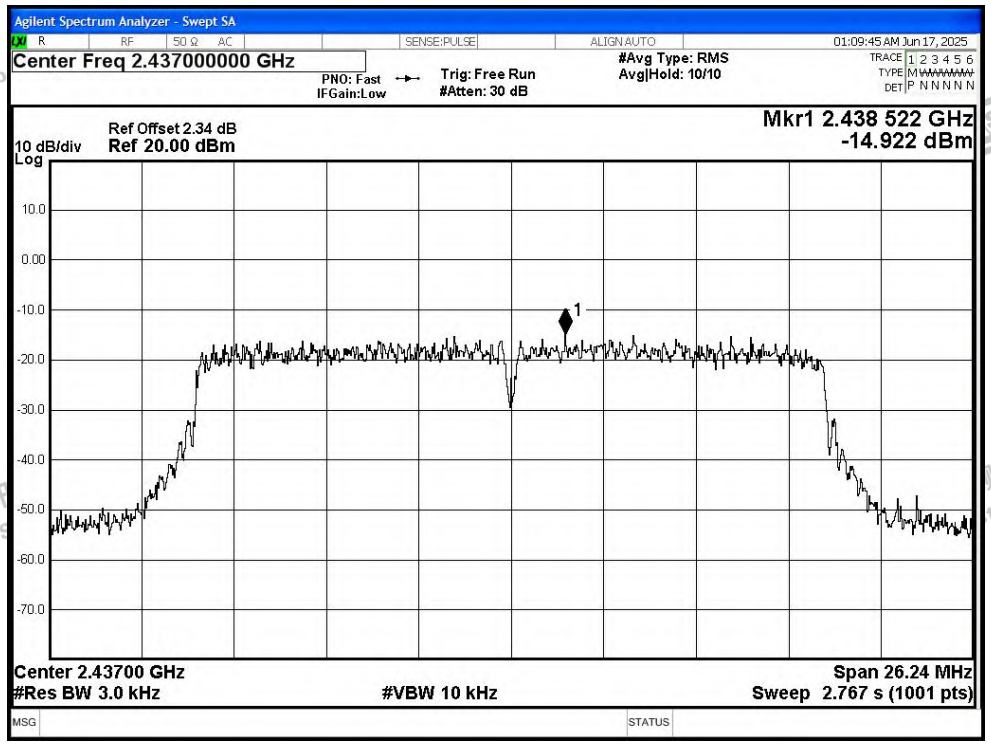
PSD NVNT g 2462MHz Ant1



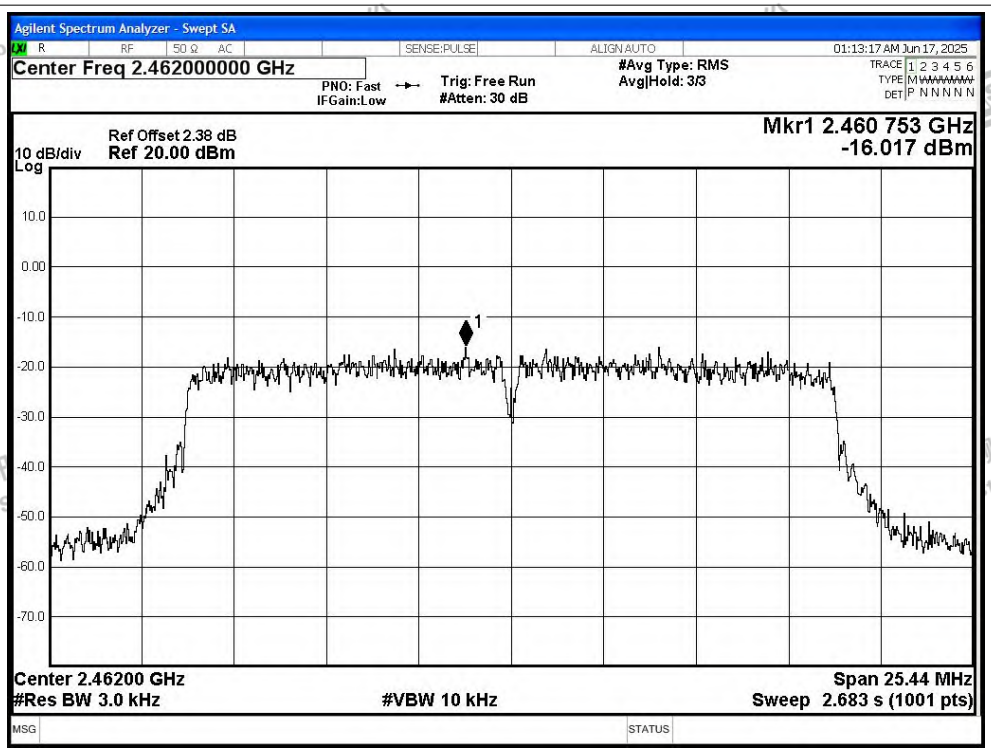
PSD NVNT n20 2412MHz Ant1



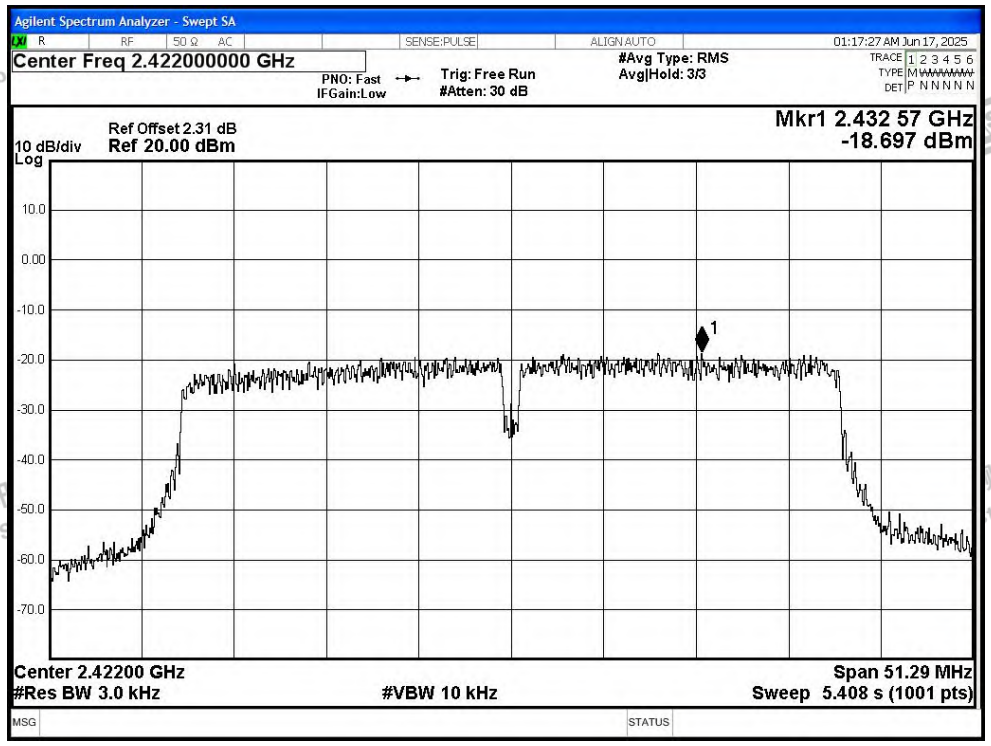
PSD NVNT n20 2437MHz Ant1



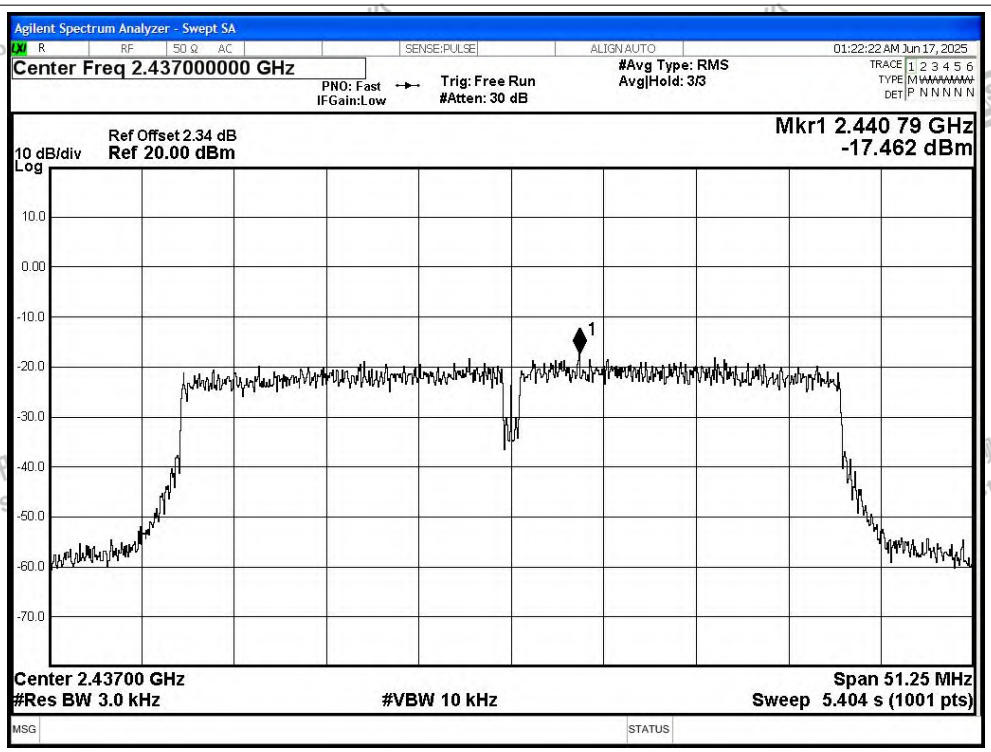
PSD NVNT n20 2462MHz Ant1



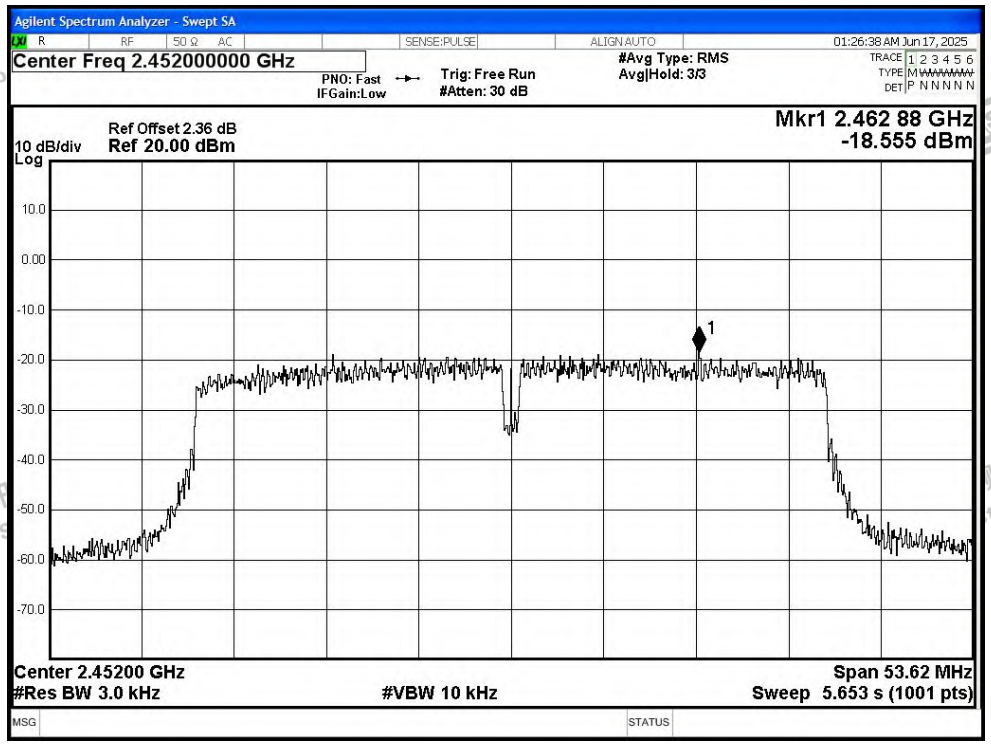
PSD NVNT n40 2422MHz Ant1



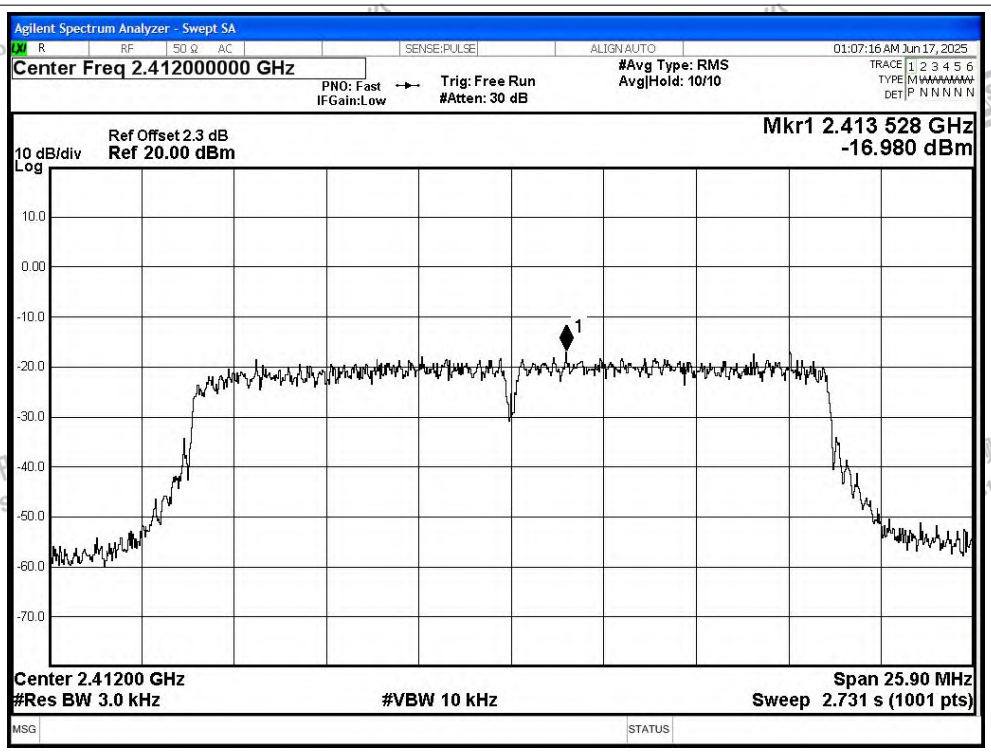
PSD NVNT n40 2437MHz Ant1



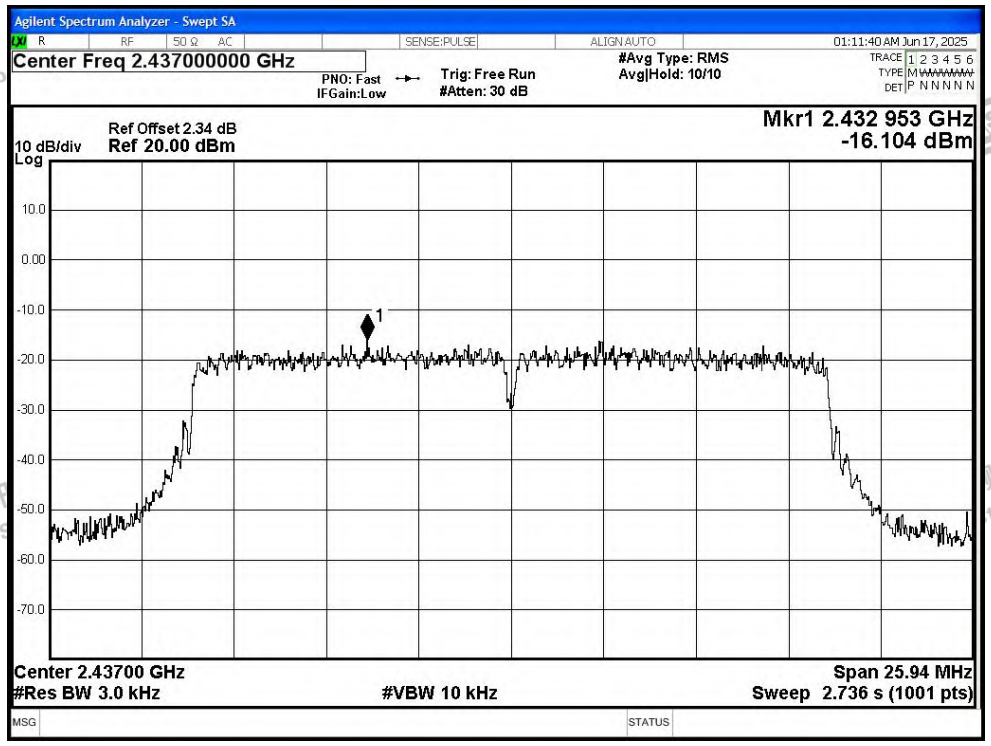
PSD NVNT n40 2452MHz Ant1



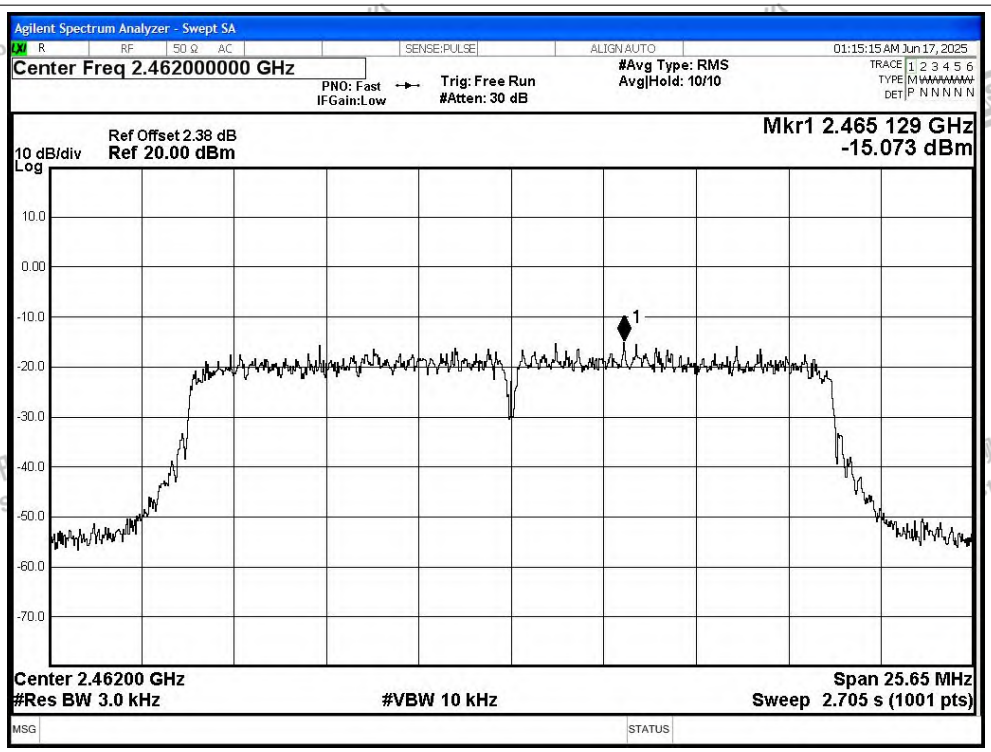
PSD NVNT ax20 2412MHz Ant1



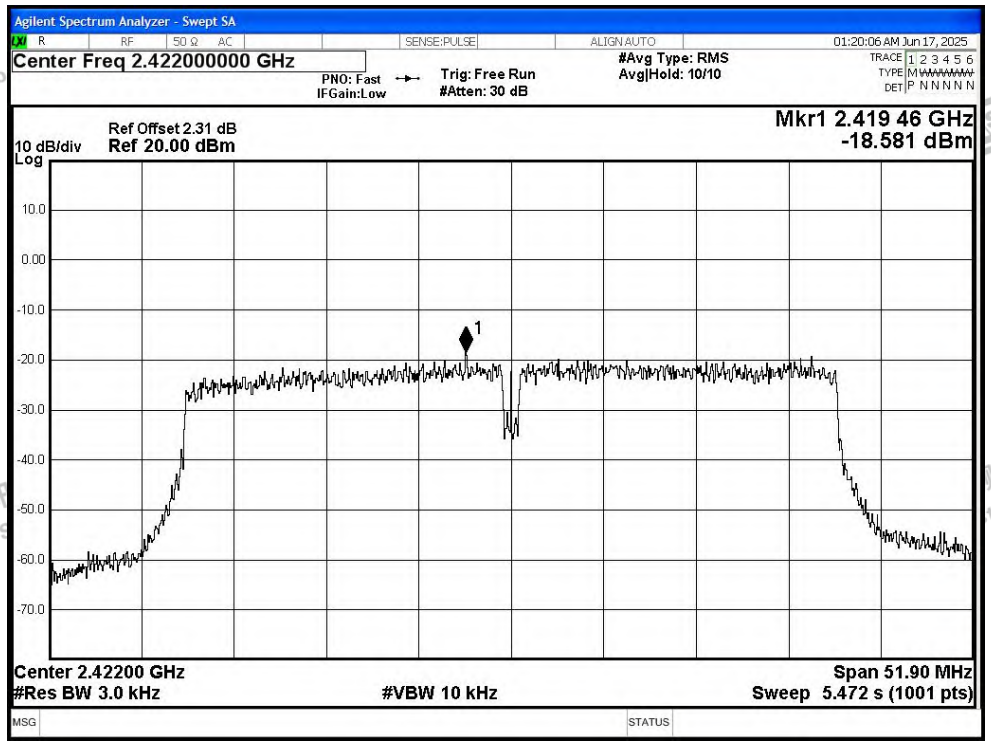
PSD NVNT ax20 2437MHz Ant1



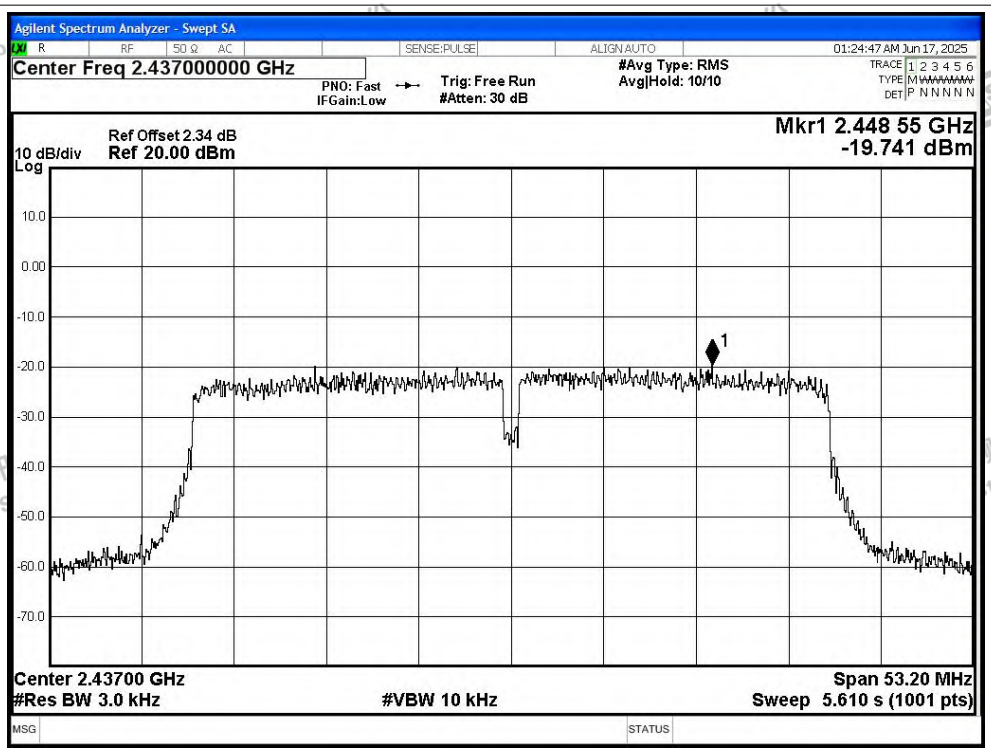
PSD NVNT ax20 2462MHz Ant1



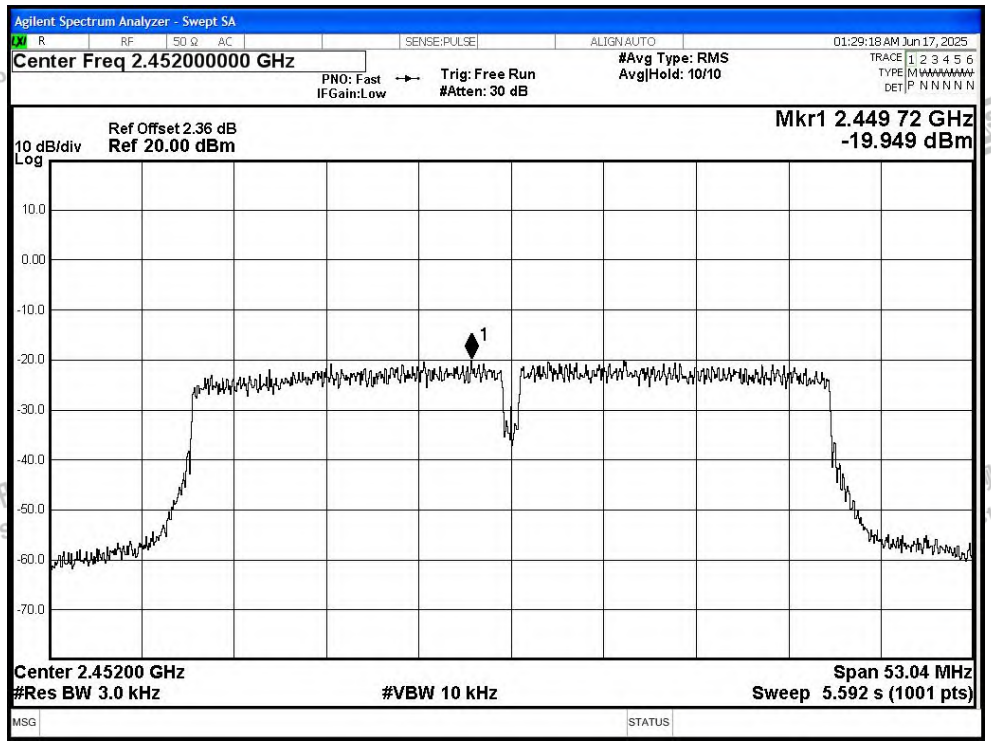
PSD NVNT ax40 2422MHz Ant1



PSD NVNT ax40 2437MHz Ant1



PSD NVNT ax40 2452MHz Ant1

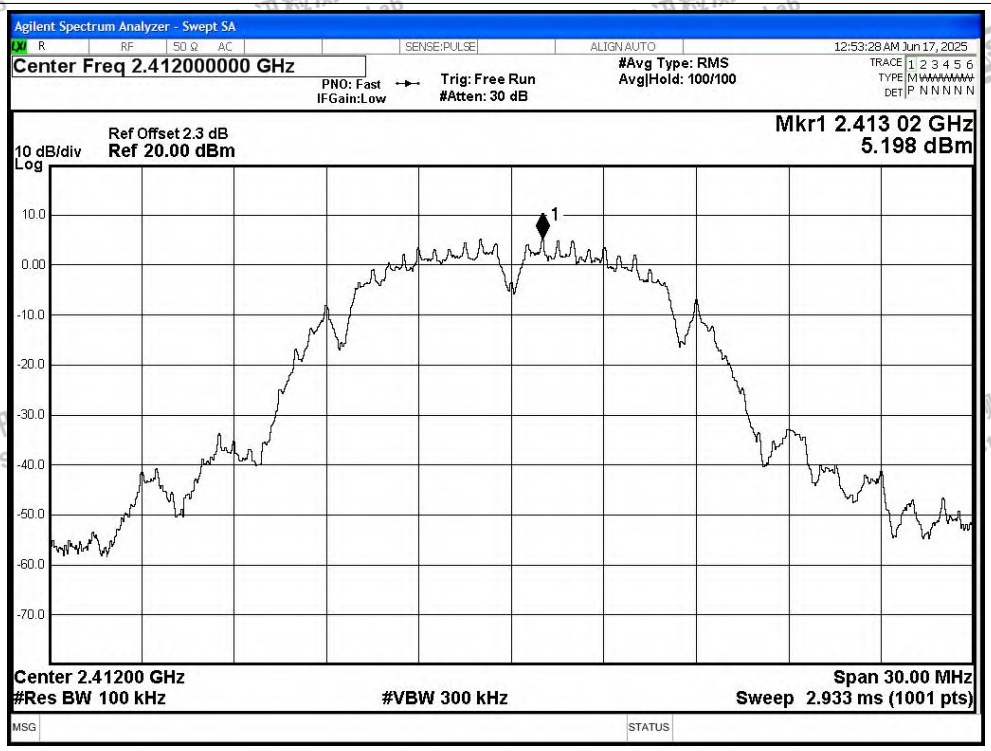


C.4 Band Edge

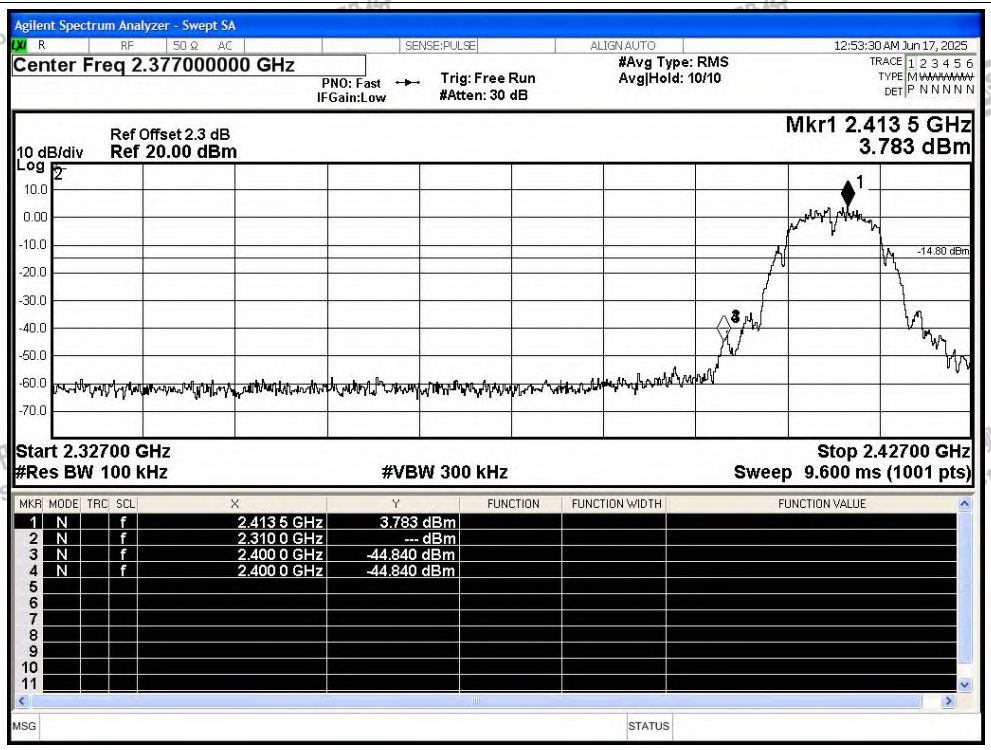
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.04	-20	Pass
NVNT	b	2462	Ant1	-61.56	-20	Pass
NVNT	g	2412	Ant1	-33.49	-20	Pass
NVNT	g	2462	Ant1	-45	-20	Pass
NVNT	n20	2412	Ant1	-33.95	-20	Pass
NVNT	n20	2462	Ant1	-42.88	-20	Pass
NVNT	n40	2422	Ant1	-36.84	-20	Pass
NVNT	n40	2452	Ant1	-38.8	-20	Pass
NVNT	ax20	2412	Ant1	-32.18	-20	Pass
NVNT	ax20	2462	Ant1	-38.68	-20	Pass
NVNT	ax40	2422	Ant1	-35.23	-20	Pass
NVNT	ax40	2452	Ant1	-37.7	-20	Pass

Test Graphs

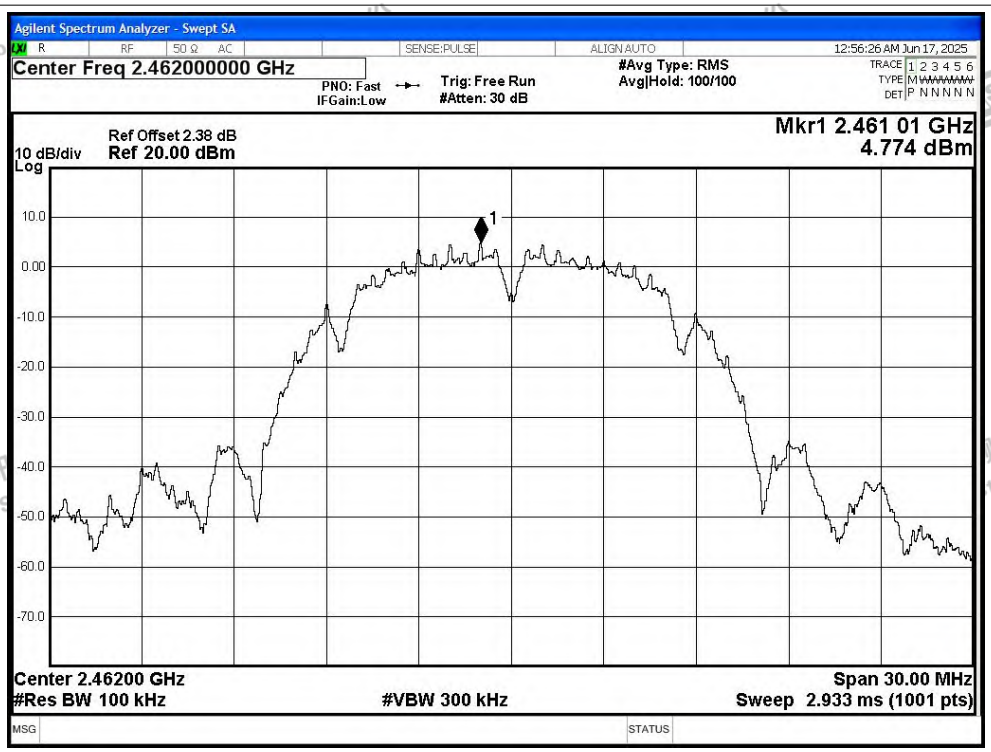
Band Edge NVNT b 2412MHz Ant1 Ref



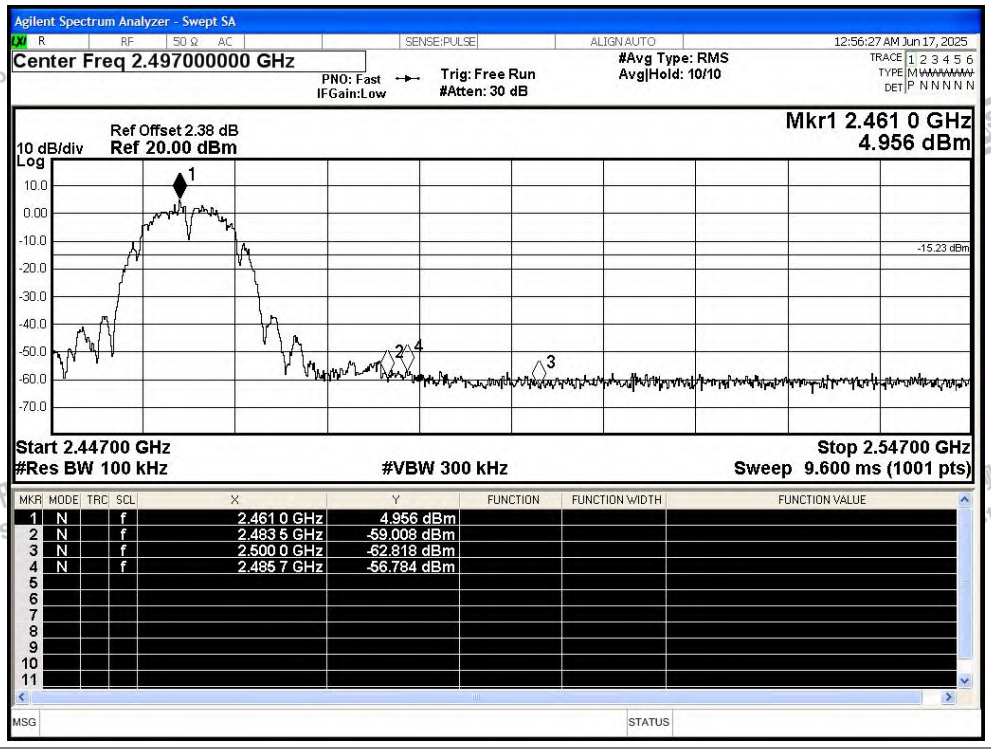
Band Edge NVNT b 2412MHz Ant1 Emission



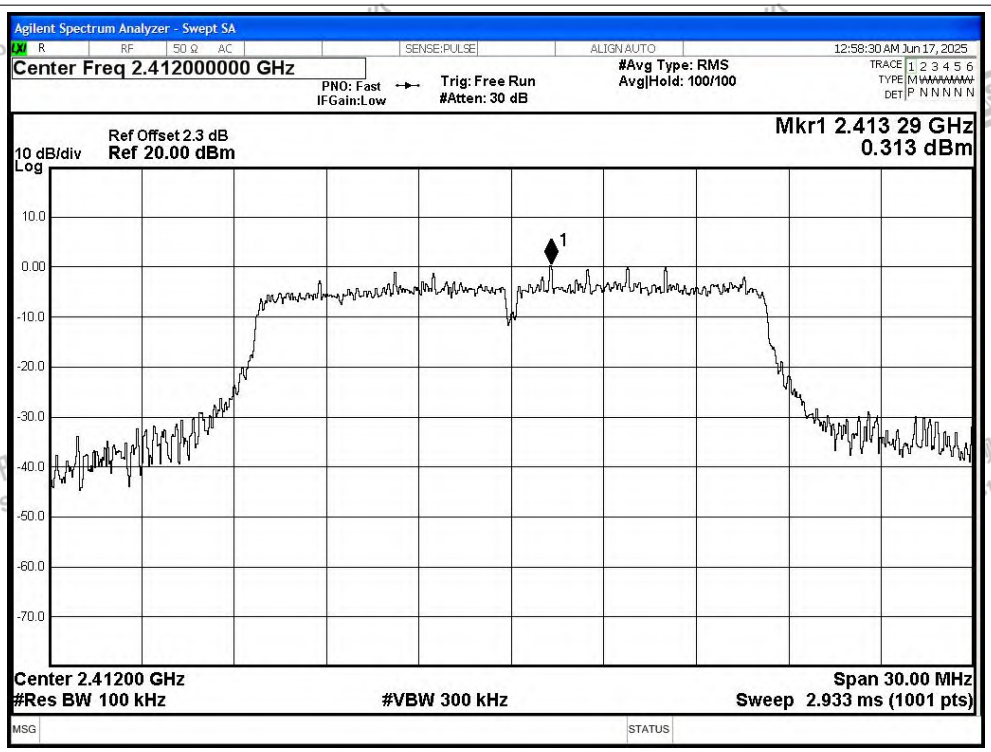
Band Edge NVNT b 2462MHz Ant1 Ref



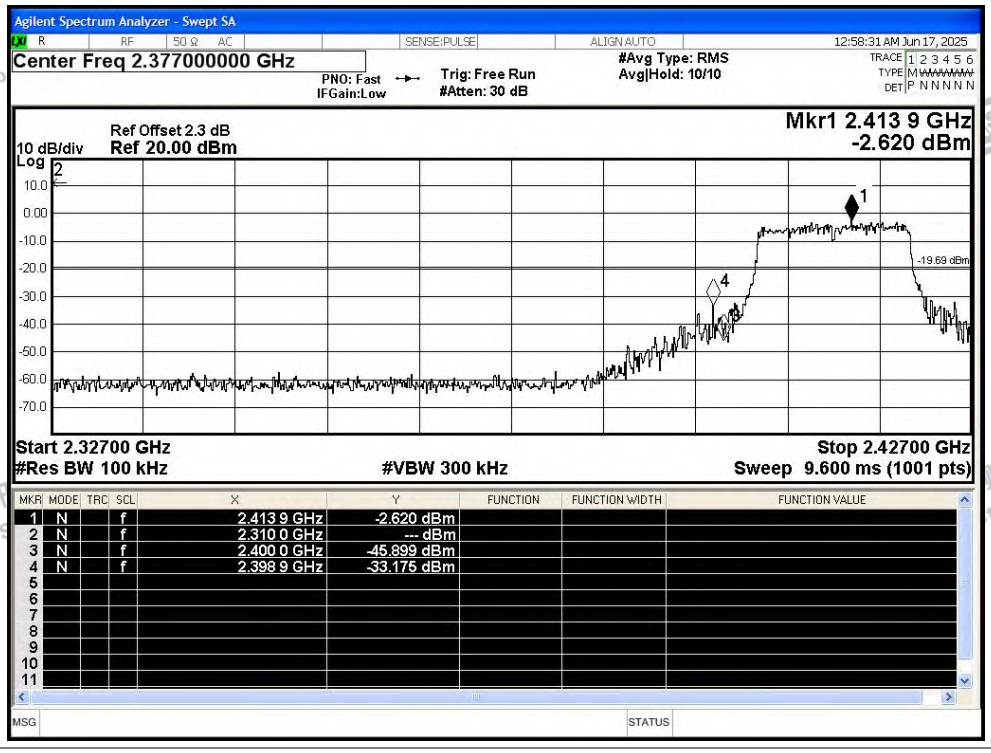
Band Edge NVNT b 2462MHz Ant1 Emission



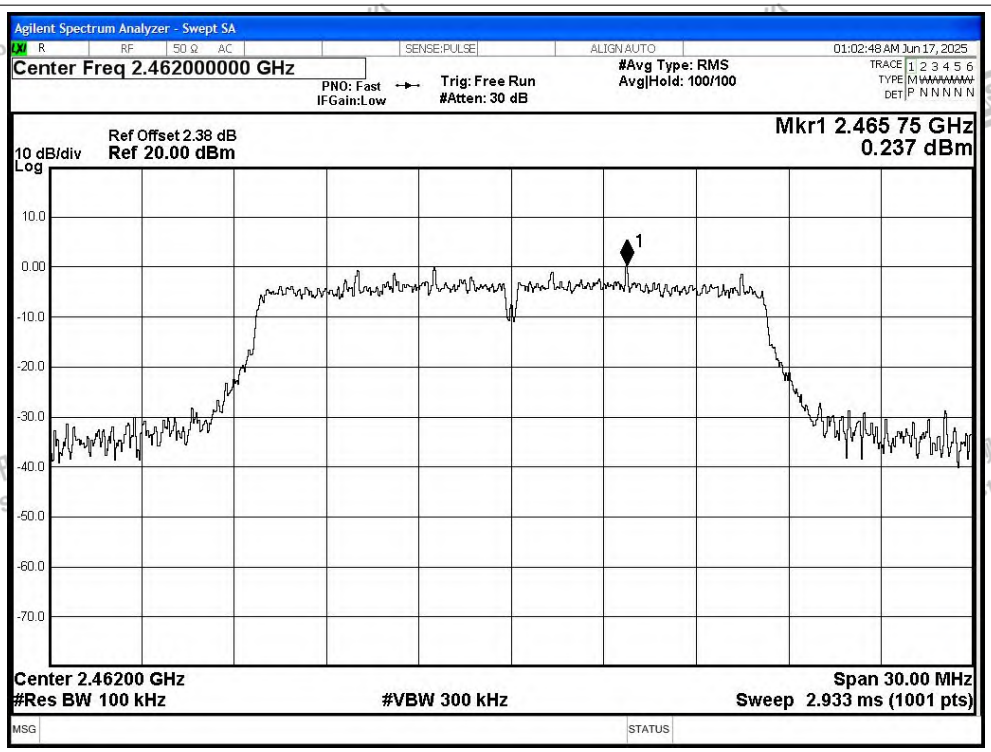
Band Edge NVNT g 2412MHz Ant1 Ref



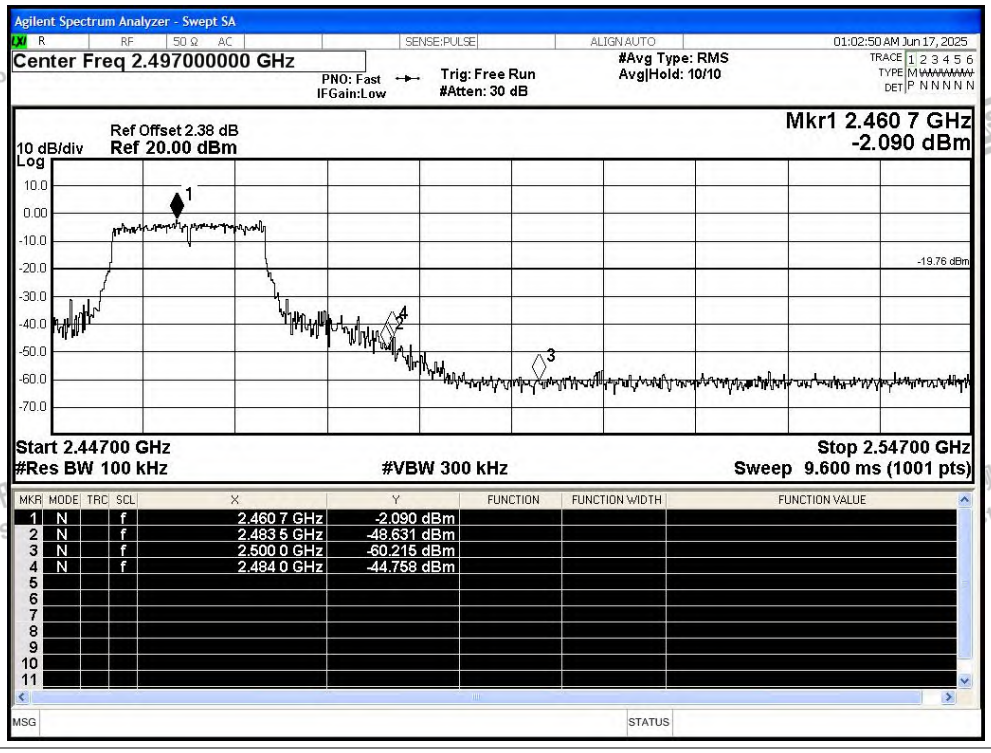
Band Edge NVNT g 2412MHz Ant1 Emission



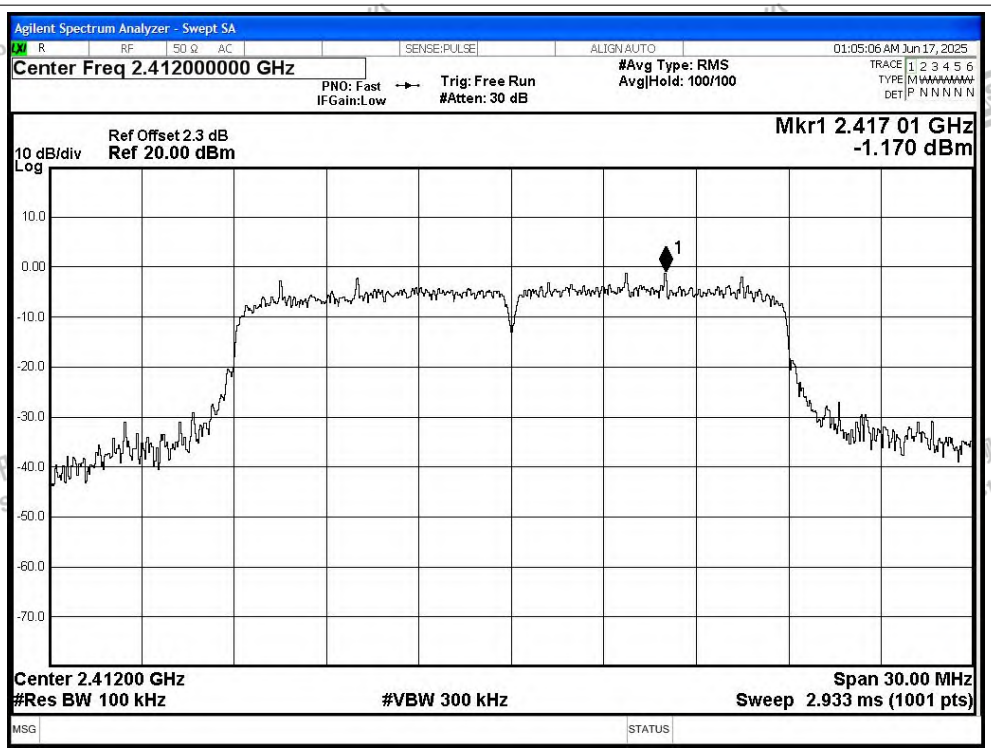
Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



Band Edge NVNT n20 2412MHz Ant1 Ref



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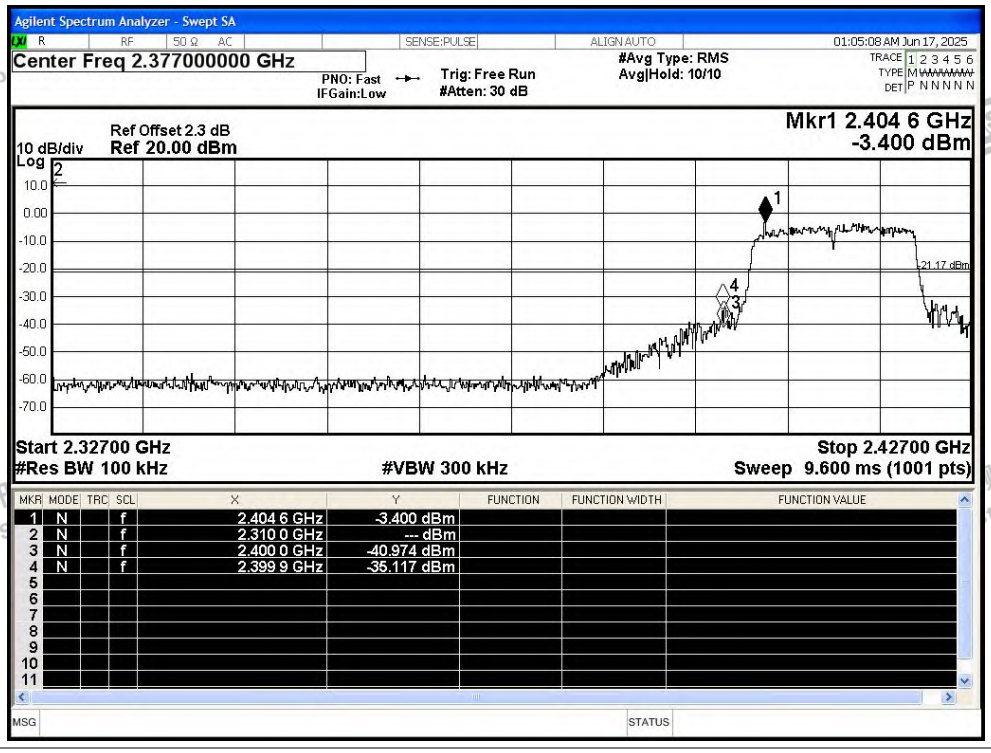

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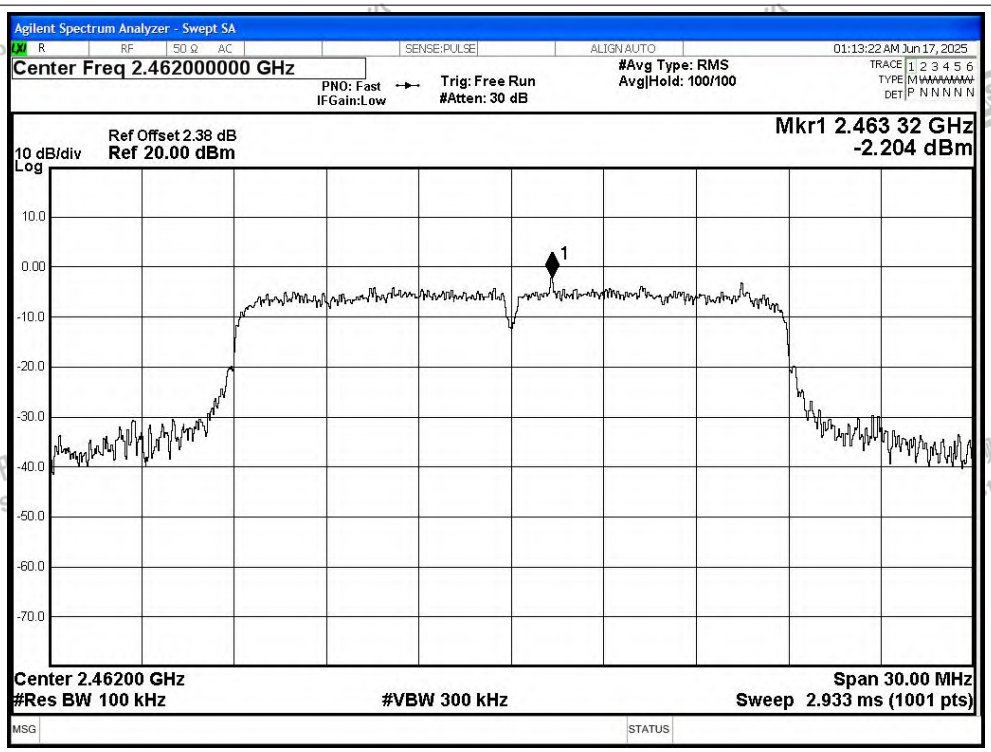
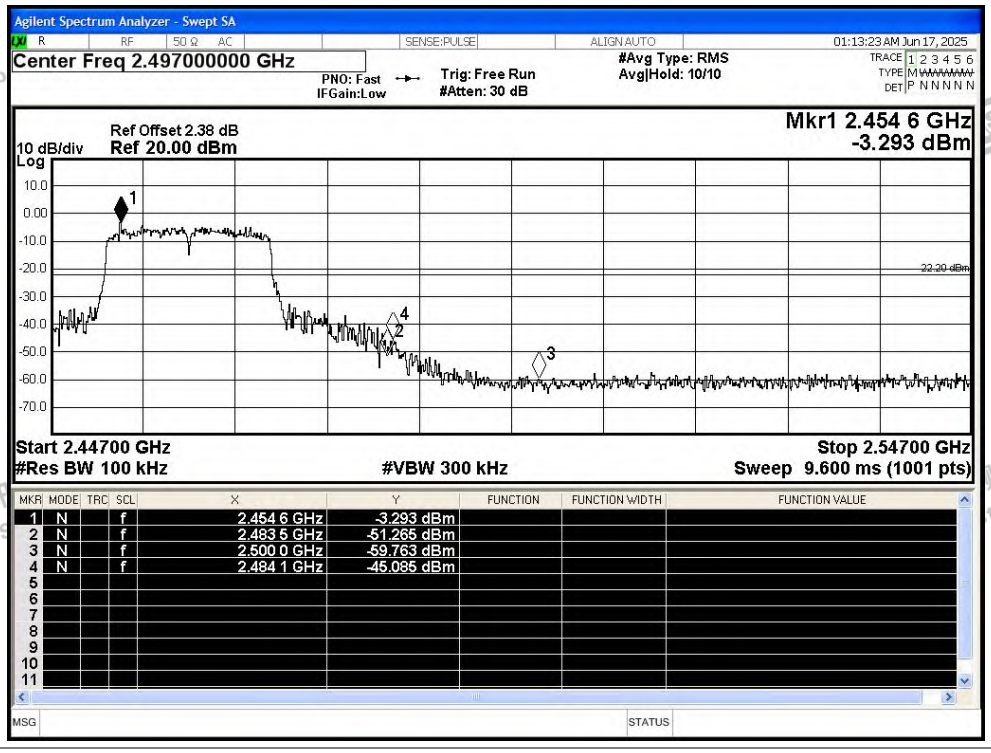
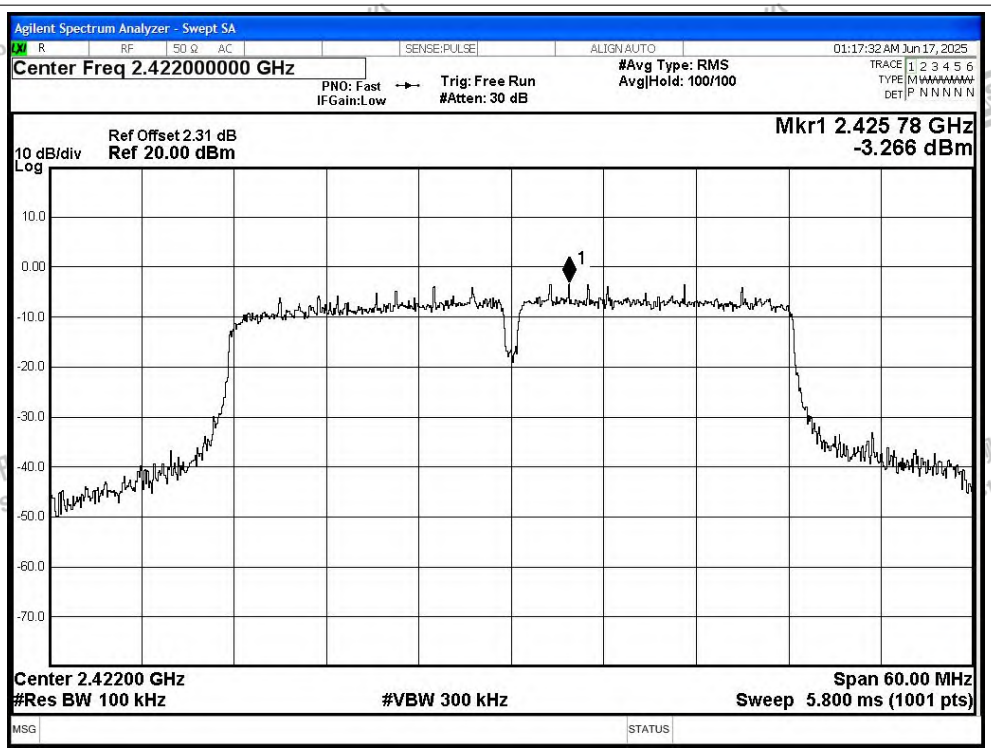


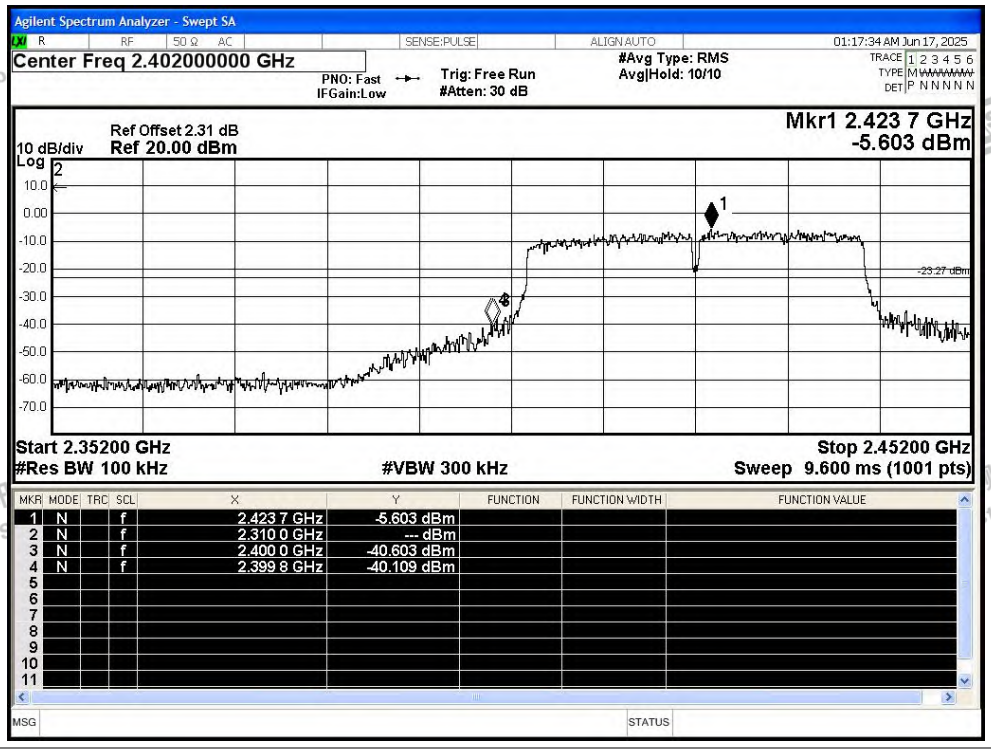
Band Edge NVNT n20 2462MHz Ant1 Emission



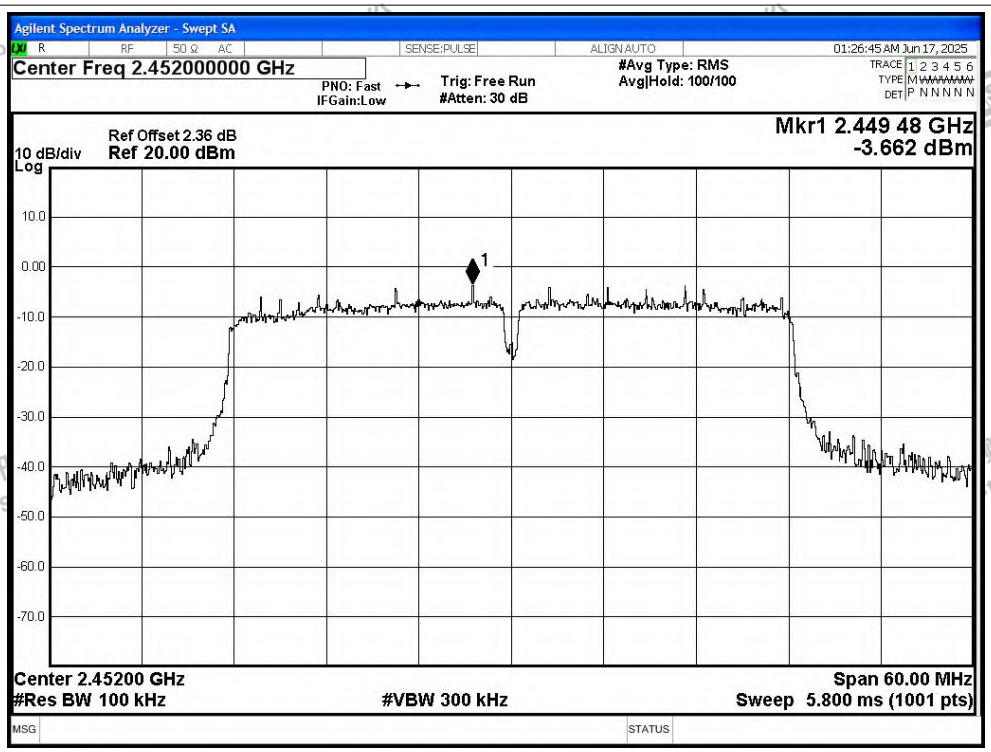
Band Edge NVNT n40 2422MHz Ant1 Ref



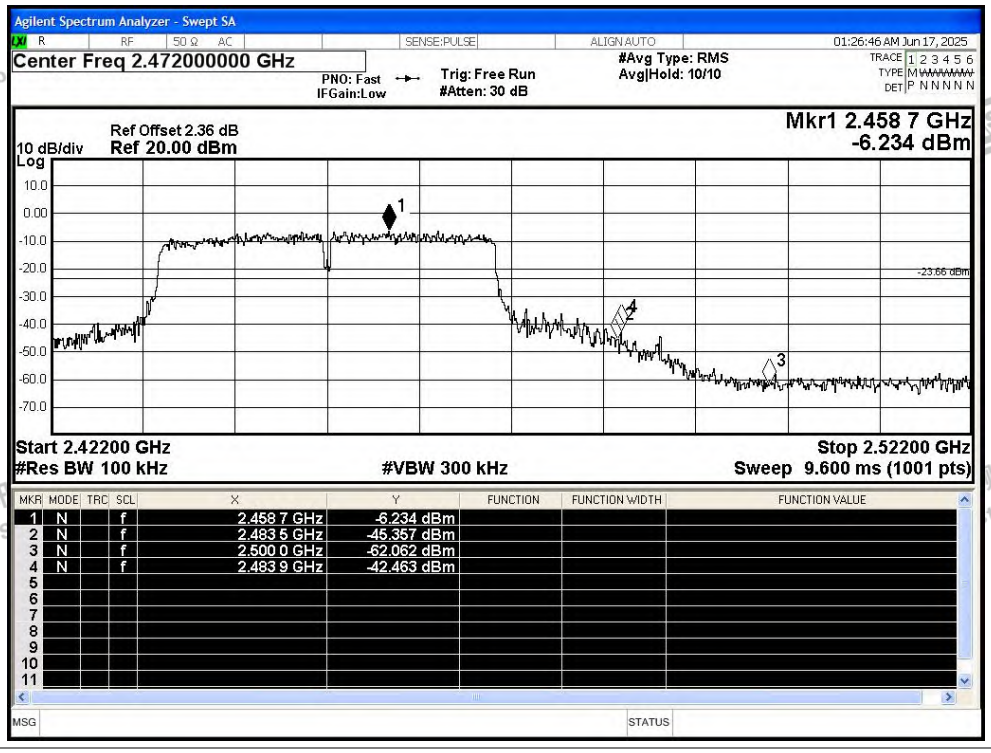
Band Edge NVNT n40 2422MHz Ant1 Emission



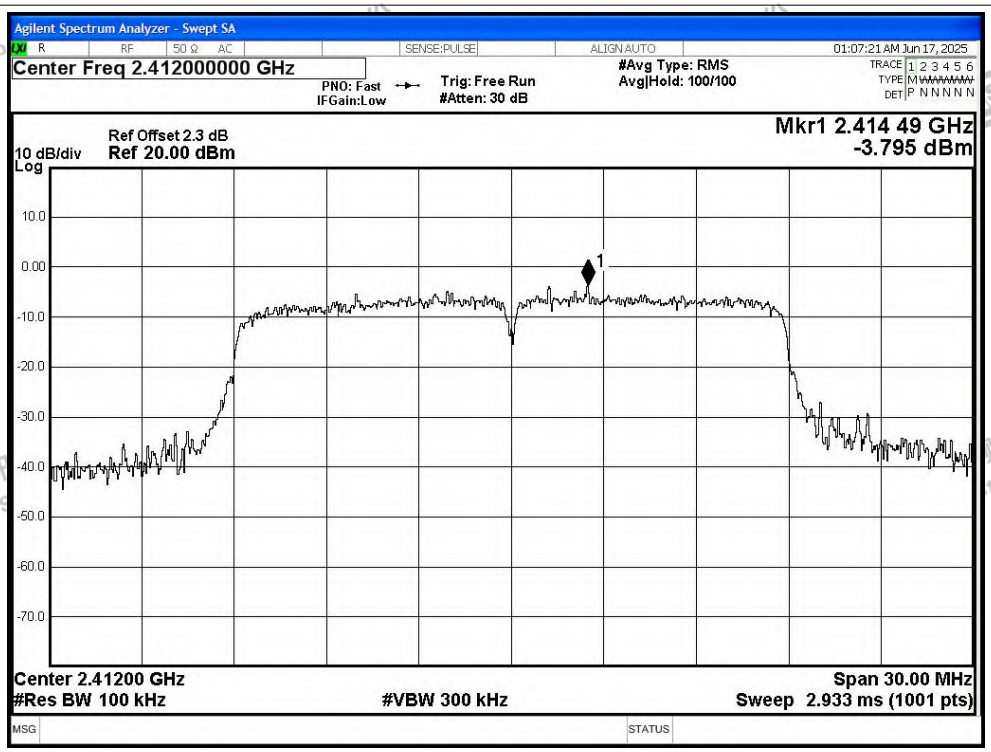
Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission



Band Edge NVNT ax20 2412MHz Ant1 Ref



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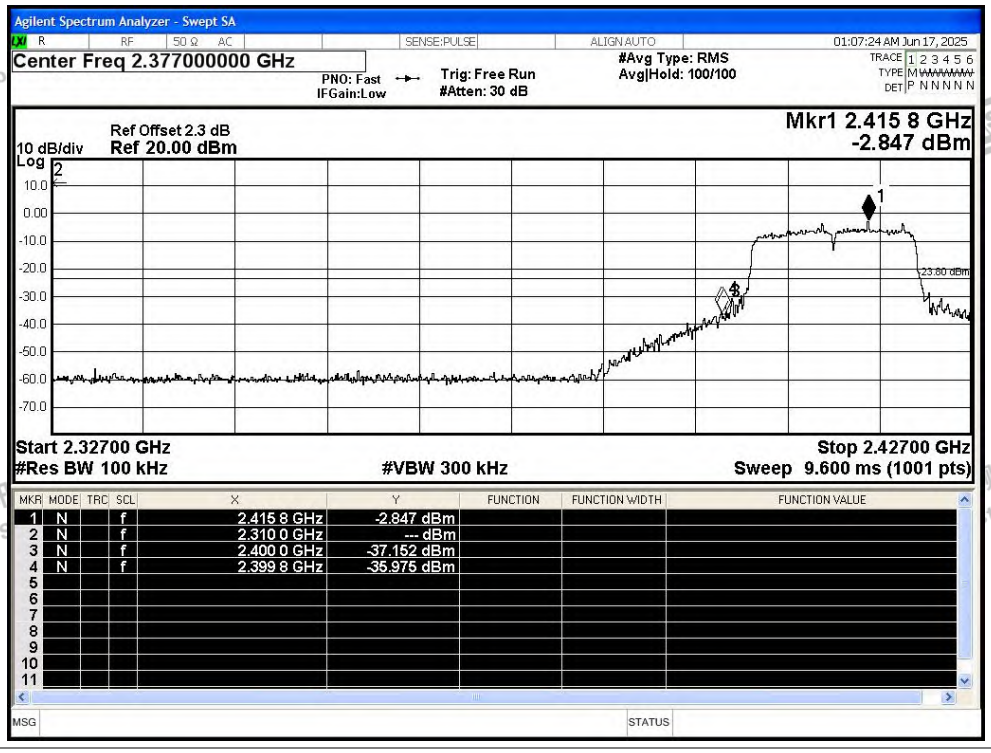
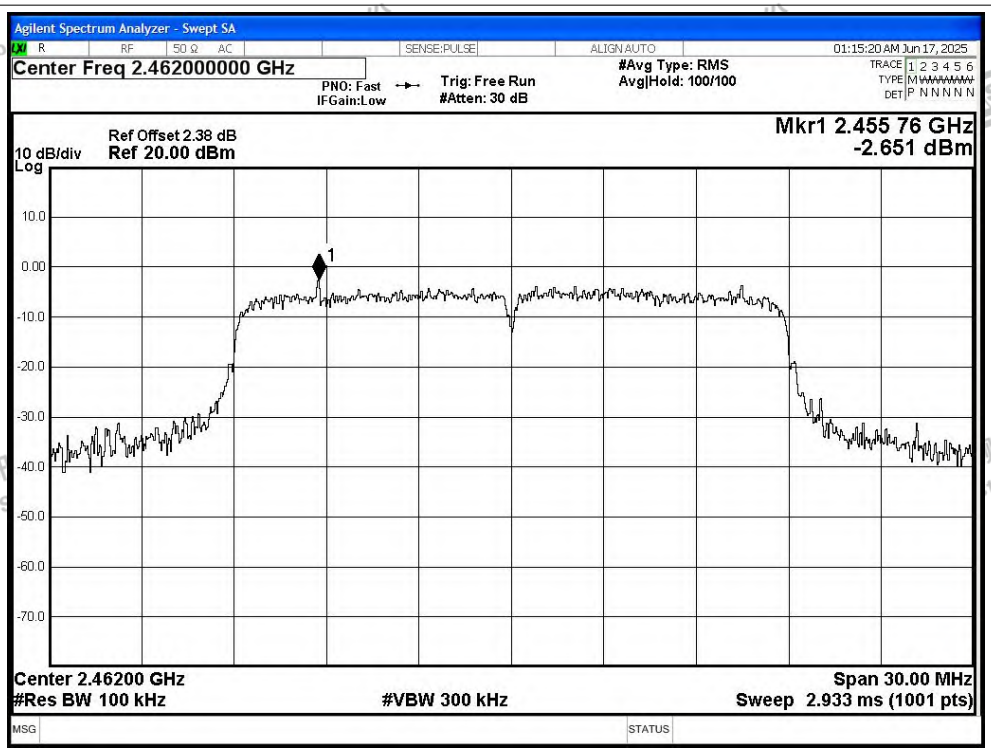
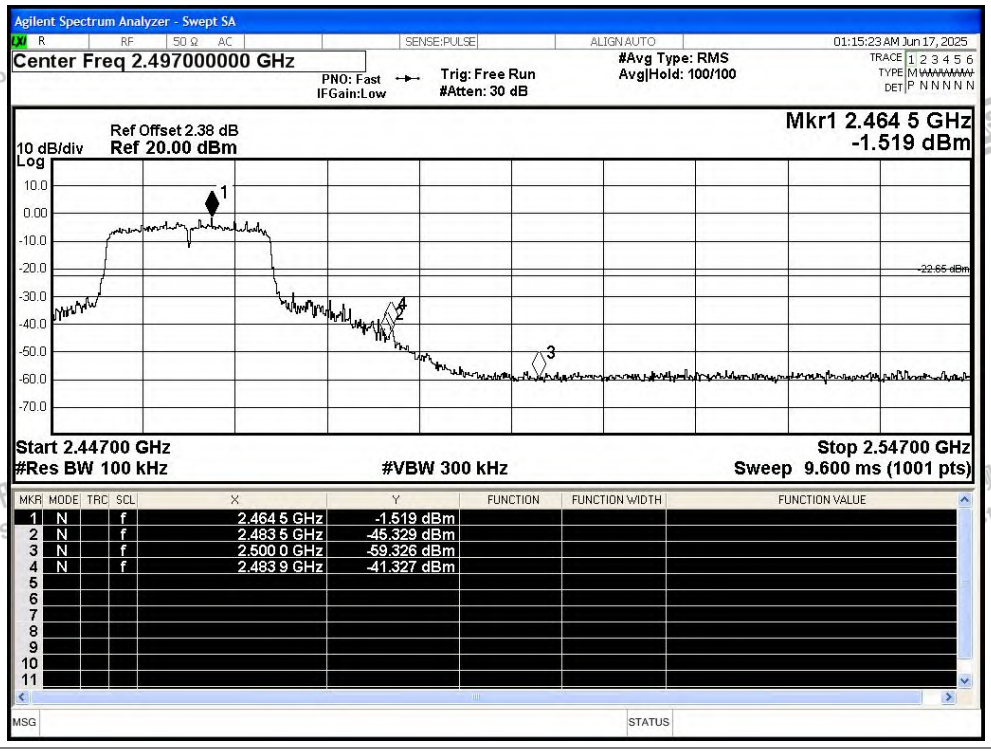


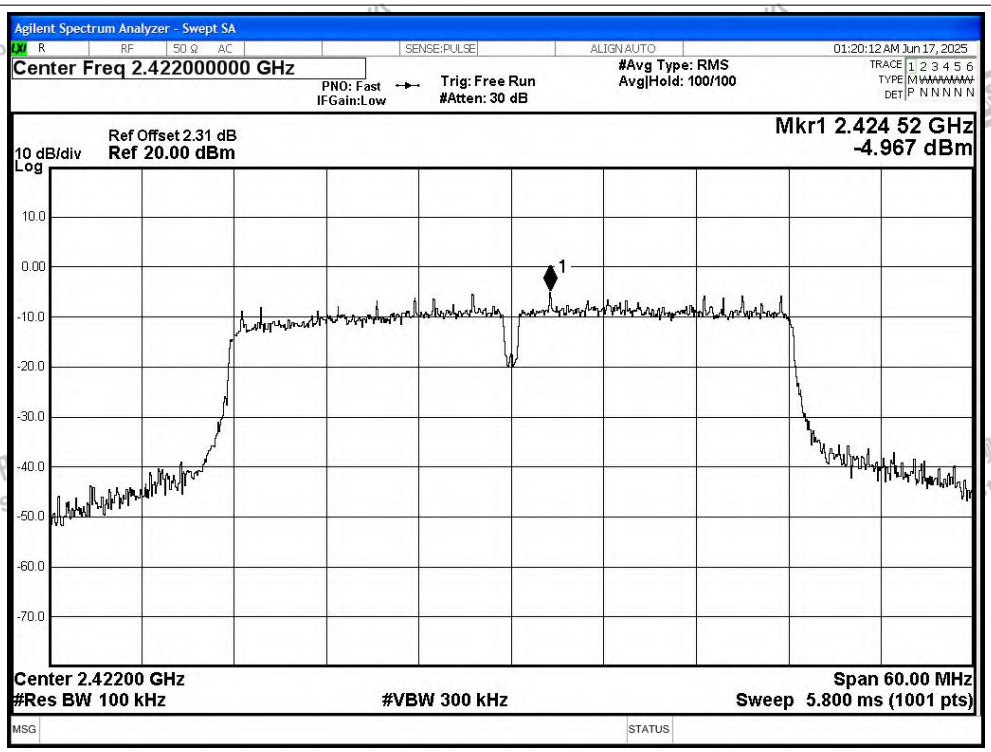
Band Edge NVNT ax20 2462MHz Ant1 Ref



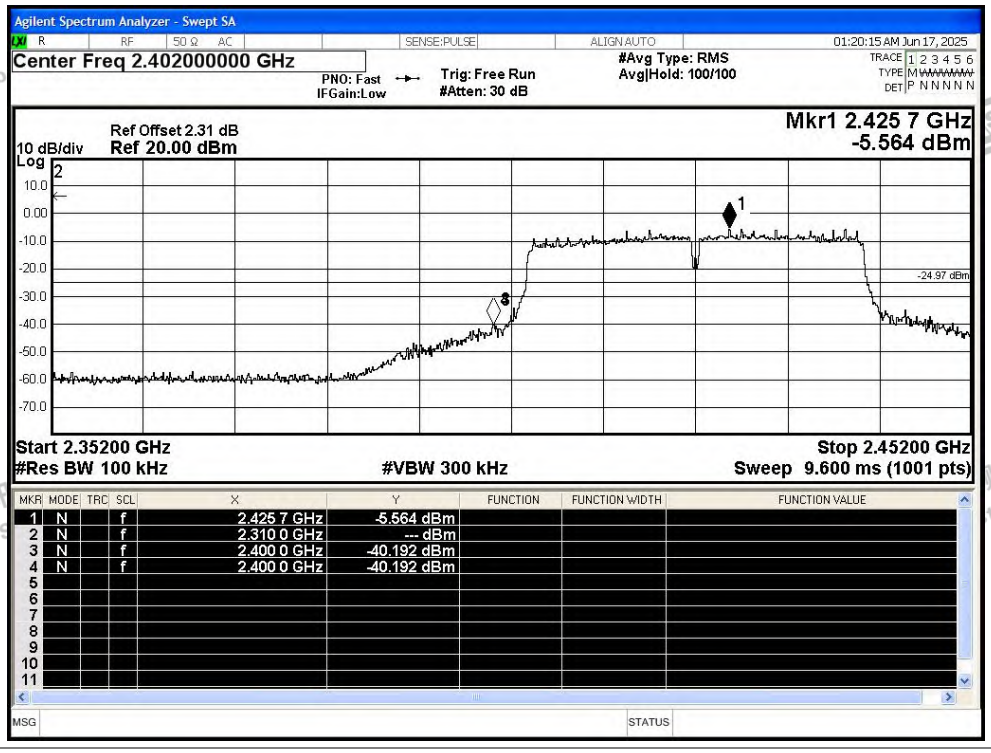
Band Edge NVNT ax20 2462MHz Ant1 Emission



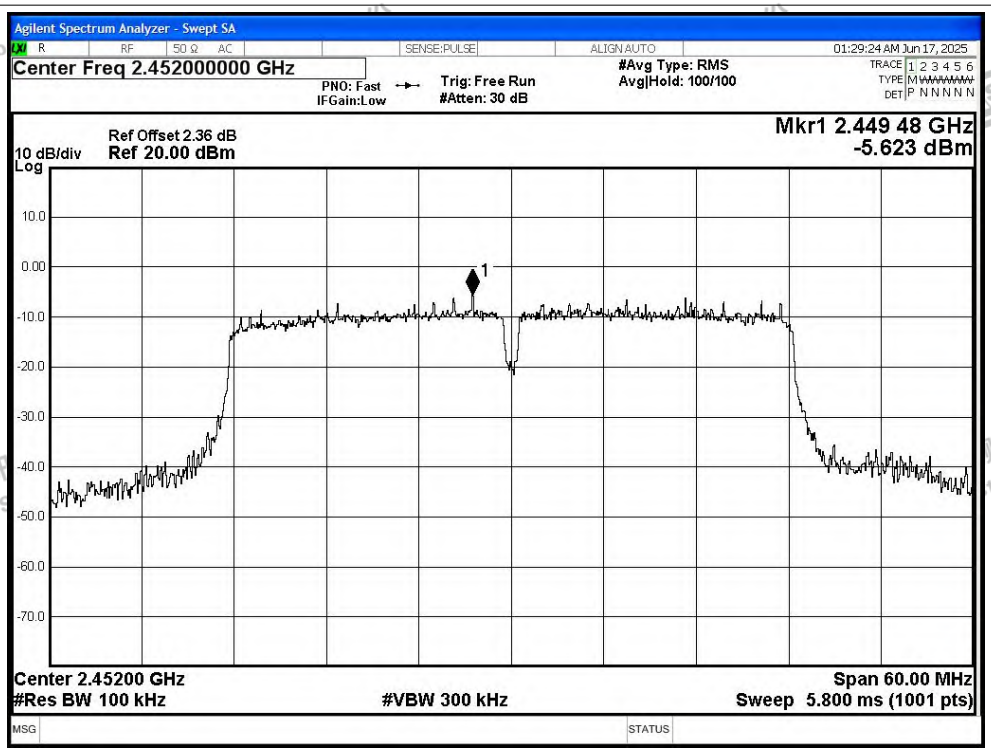
Band Edge NVNT ax40 2422MHz Ant1 Ref



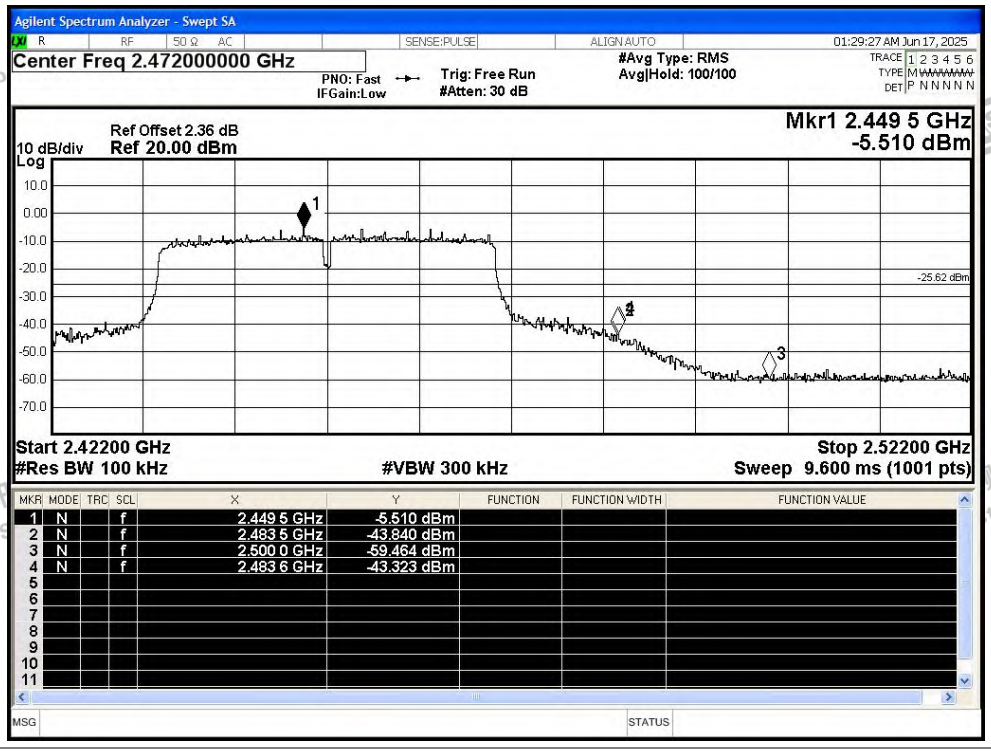
Band Edge NVNT ax40 2422MHz Ant1 Emission



Band Edge NVNT ax40 2452MHz Ant1 Ref



Band Edge NVNT ax40 2452MHz Ant1 Emission

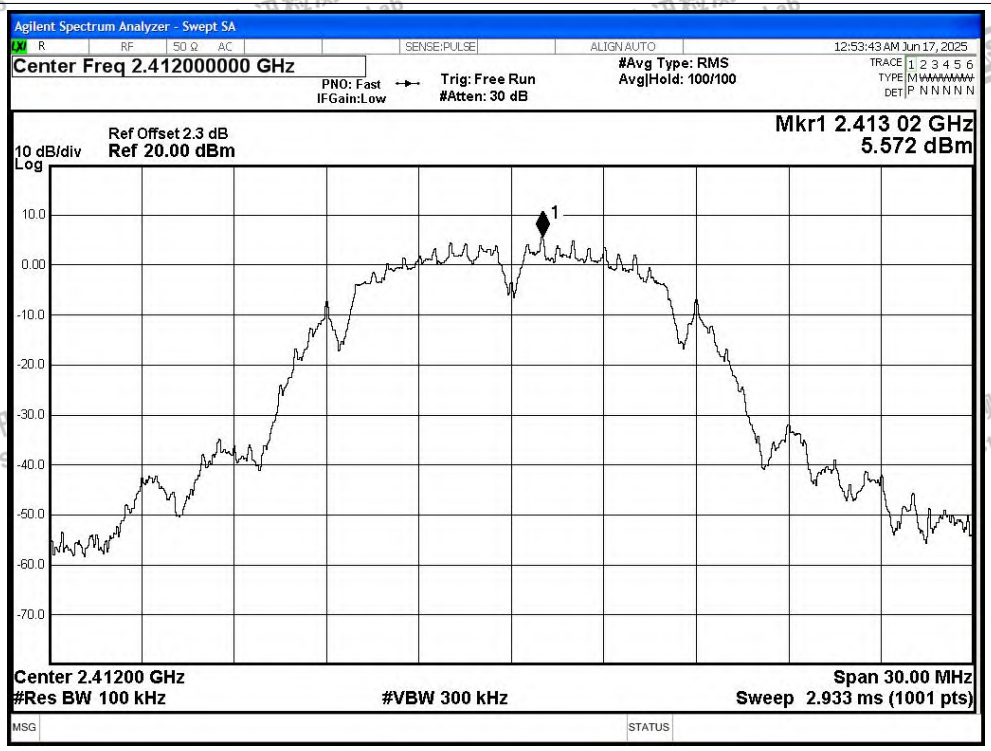


C.5 Conducted RF Spurious Emission

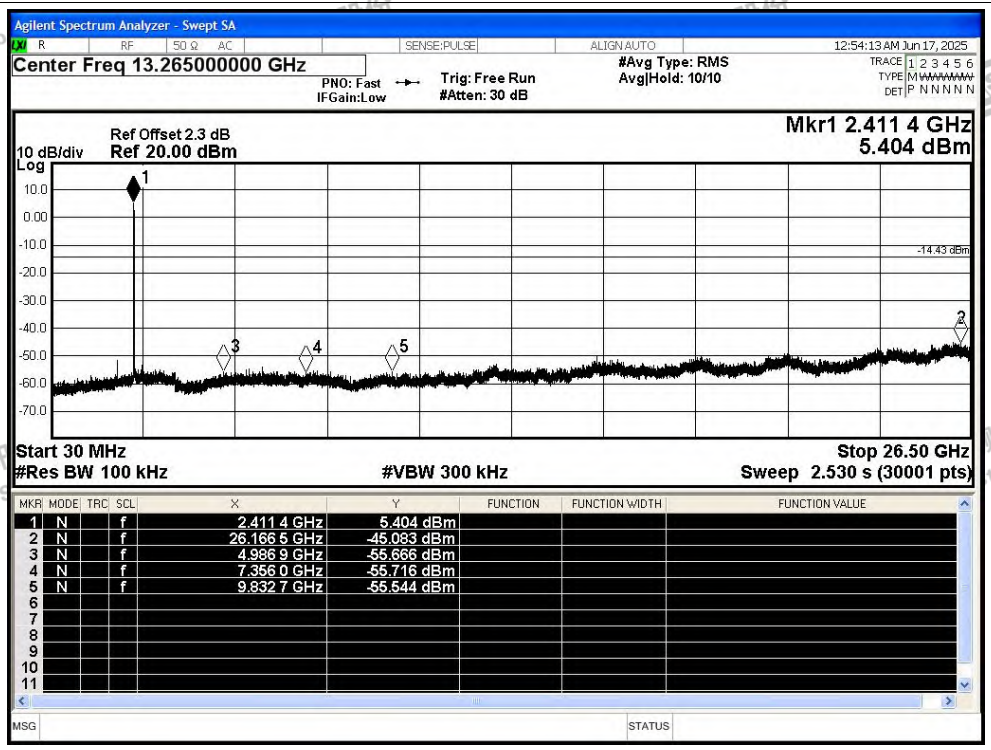
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.66	-20	Pass
NVNT	b	2437	Ant1	-49.95	-20	Pass
NVNT	b	2462	Ant1	-49.08	-20	Pass
NVNT	g	2412	Ant1	-45.5	-20	Pass
NVNT	g	2437	Ant1	-43.85	-20	Pass
NVNT	g	2462	Ant1	-44.55	-20	Pass
NVNT	n20	2412	Ant1	-43.04	-20	Pass
NVNT	n20	2437	Ant1	-44.64	-20	Pass
NVNT	n20	2462	Ant1	-43.08	-20	Pass
NVNT	n40	2422	Ant1	-42.23	-20	Pass
NVNT	n40	2437	Ant1	-41.54	-20	Pass
NVNT	n40	2452	Ant1	-41.61	-20	Pass
NVNT	ax20	2412	Ant1	-41.71	-20	Pass
NVNT	ax20	2437	Ant1	-42.96	-20	Pass
NVNT	ax20	2462	Ant1	-42.88	-20	Pass
NVNT	ax40	2422	Ant1	-40.26	-20	Pass
NVNT	ax40	2437	Ant1	-39.78	-20	Pass
NVNT	ax40	2452	Ant1	-39.47	-20	Pass

Test Graphs

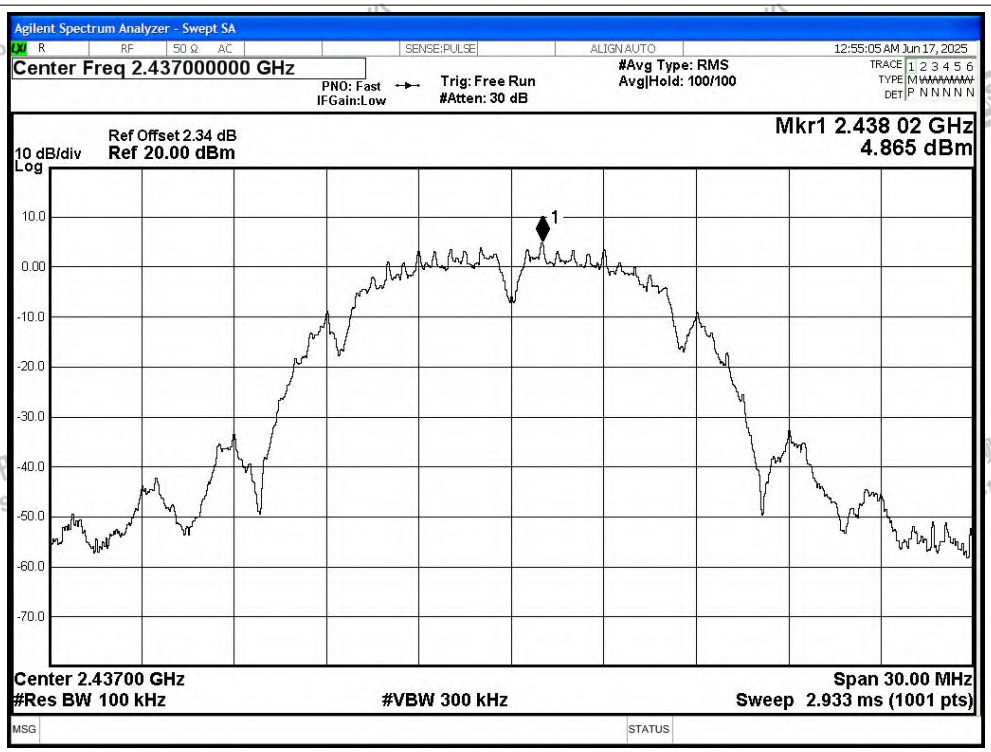
Tx. Spurious NVNT b 2412MHz Ant1 Ref



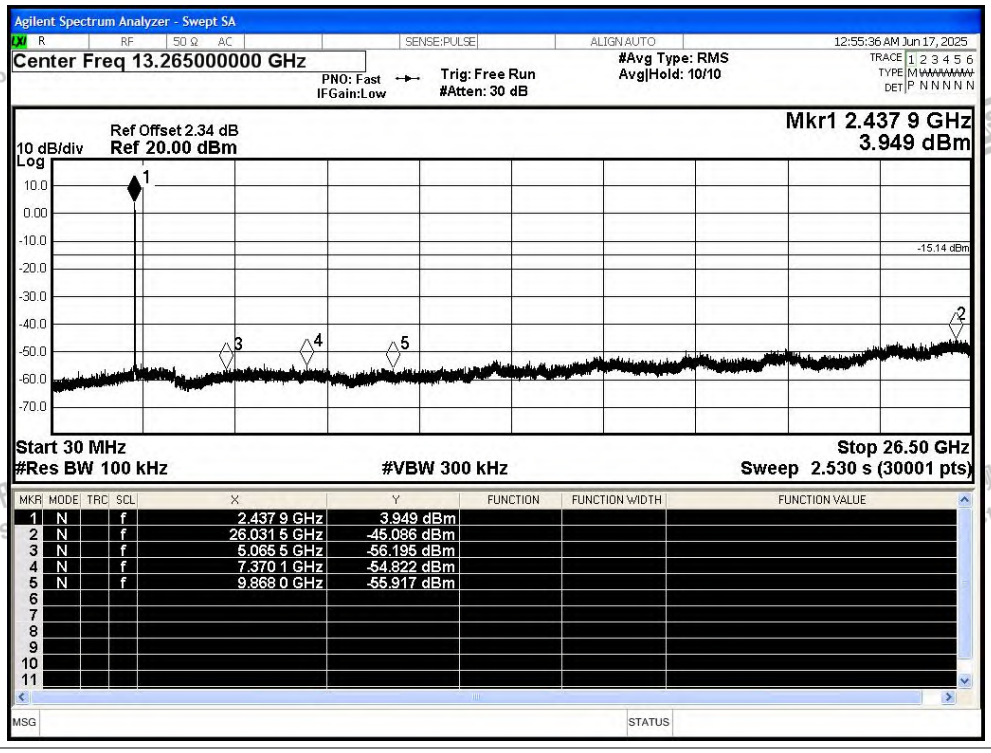
Tx. Spurious NVNT b 2412MHz Ant1 Emission



Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



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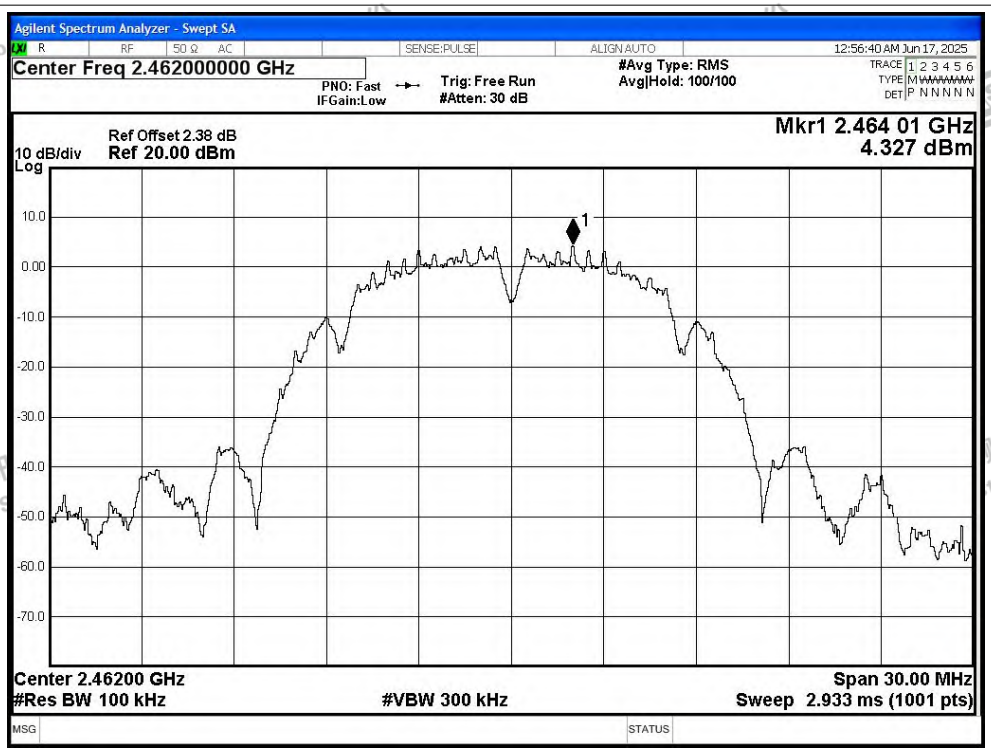

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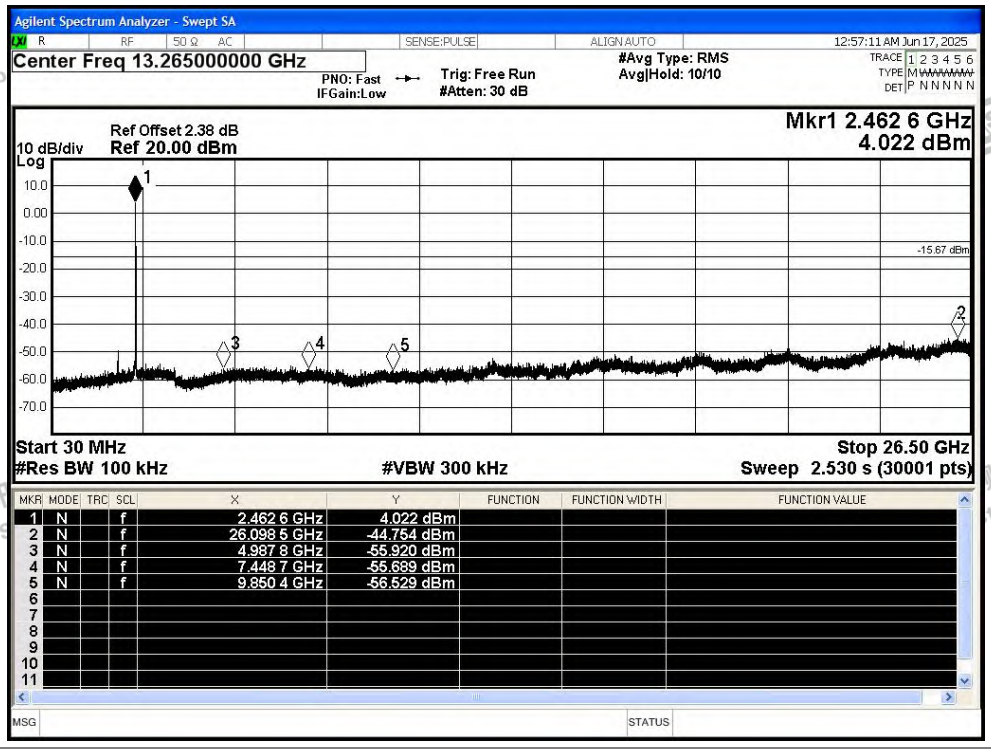

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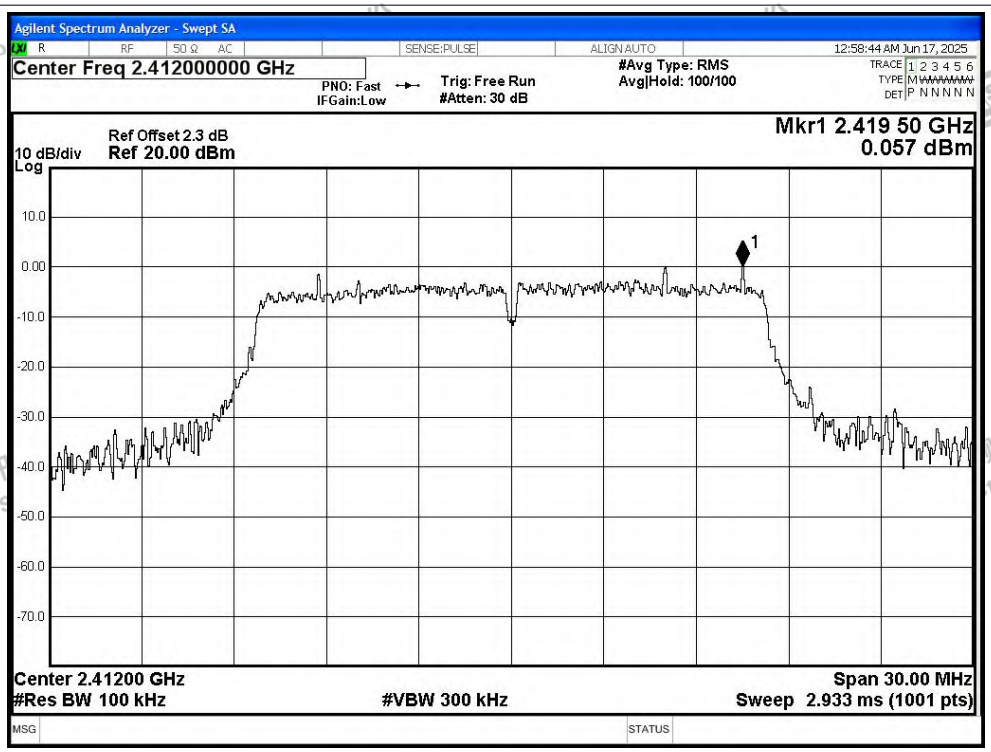

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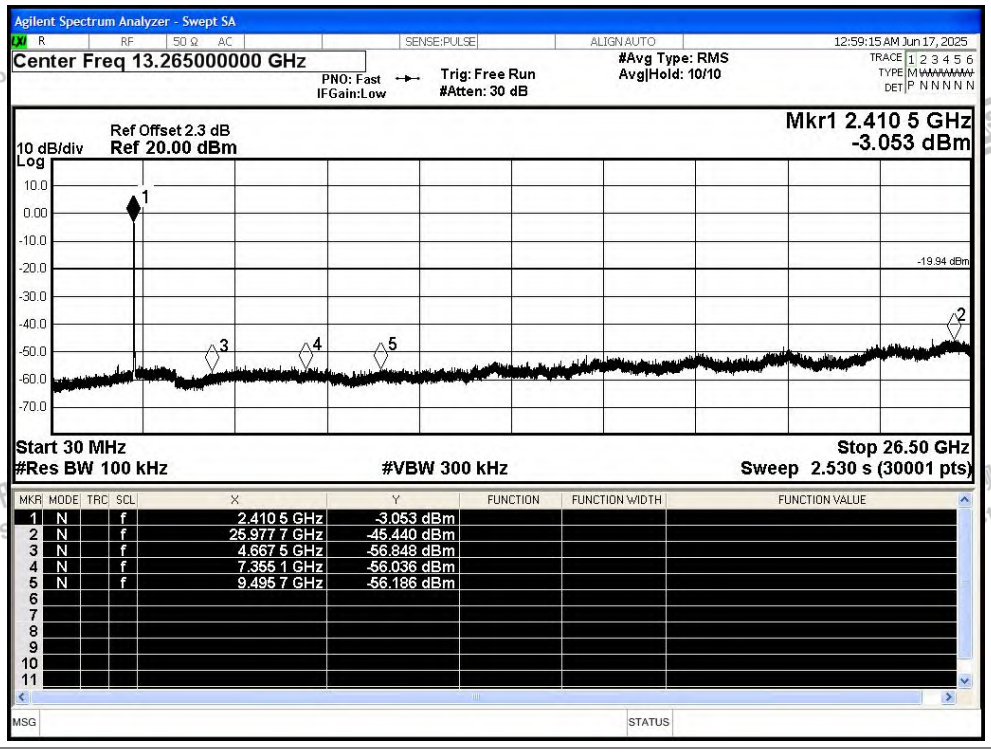
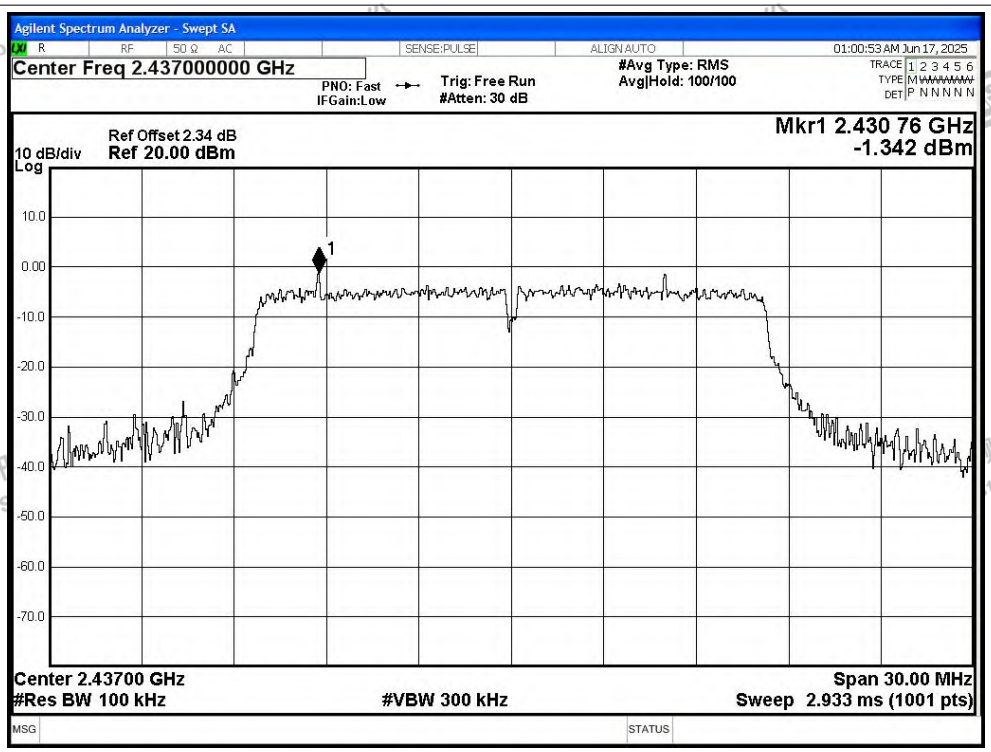
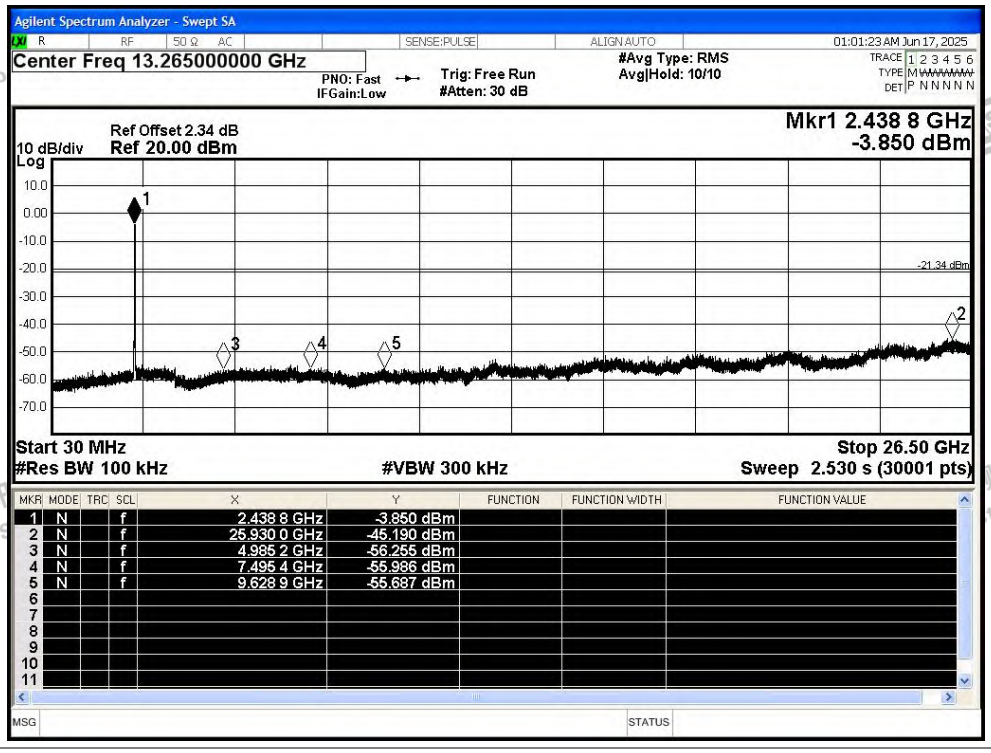


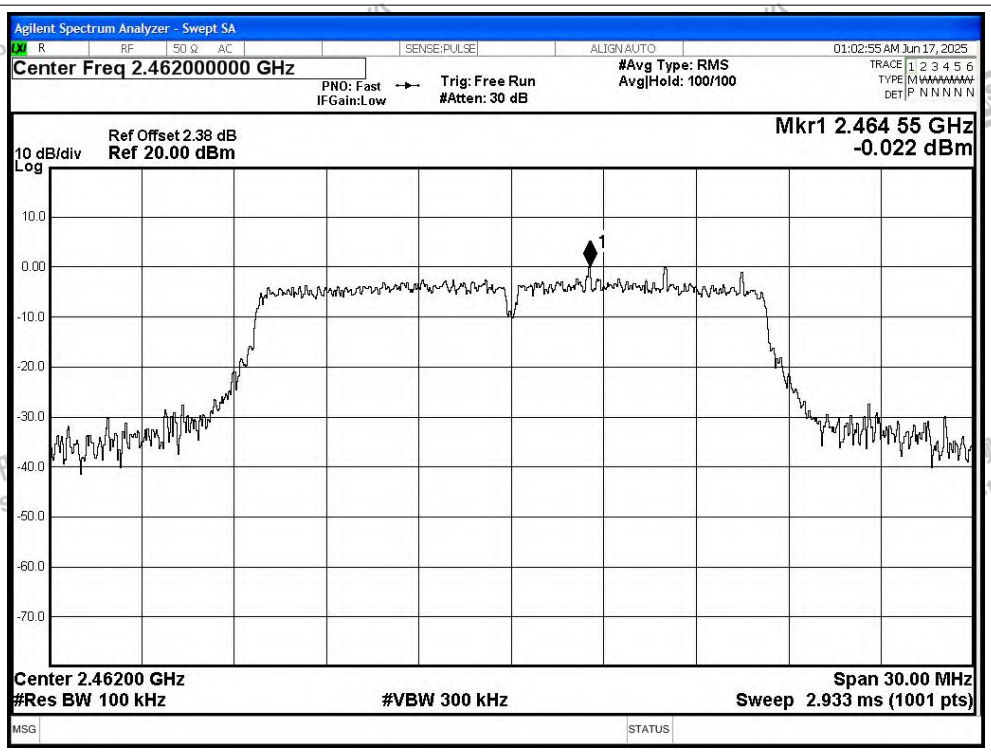
Tx. Spurious NVNT g 2437MHz Ant1 Ref



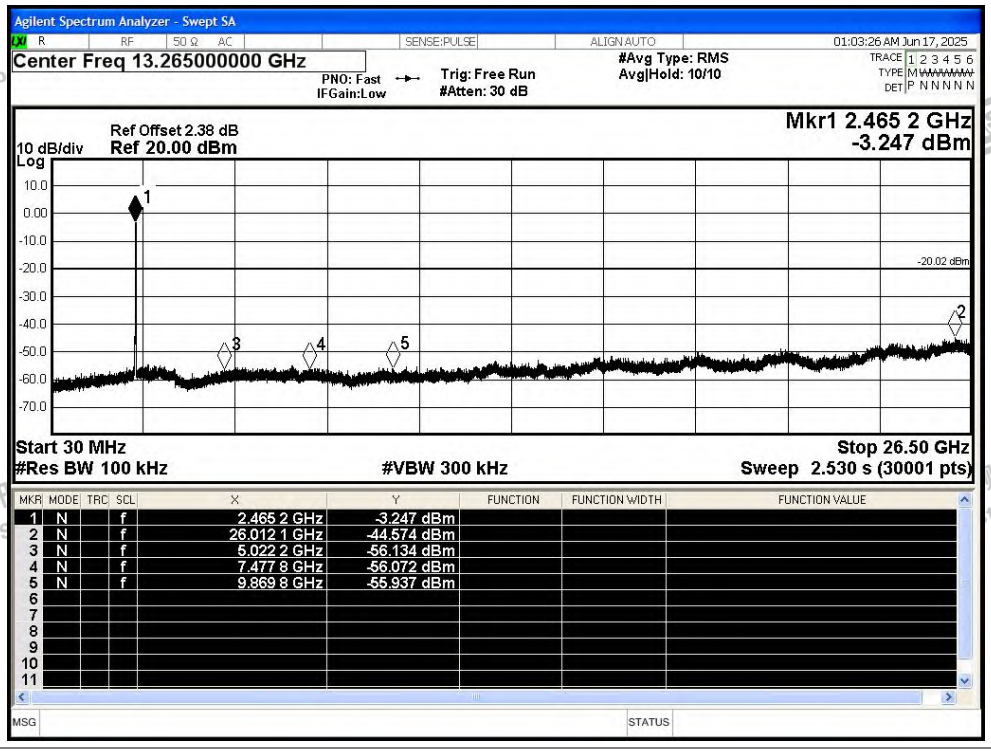
Tx. Spurious NVNT g 2437MHz Ant1 Emission



Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission



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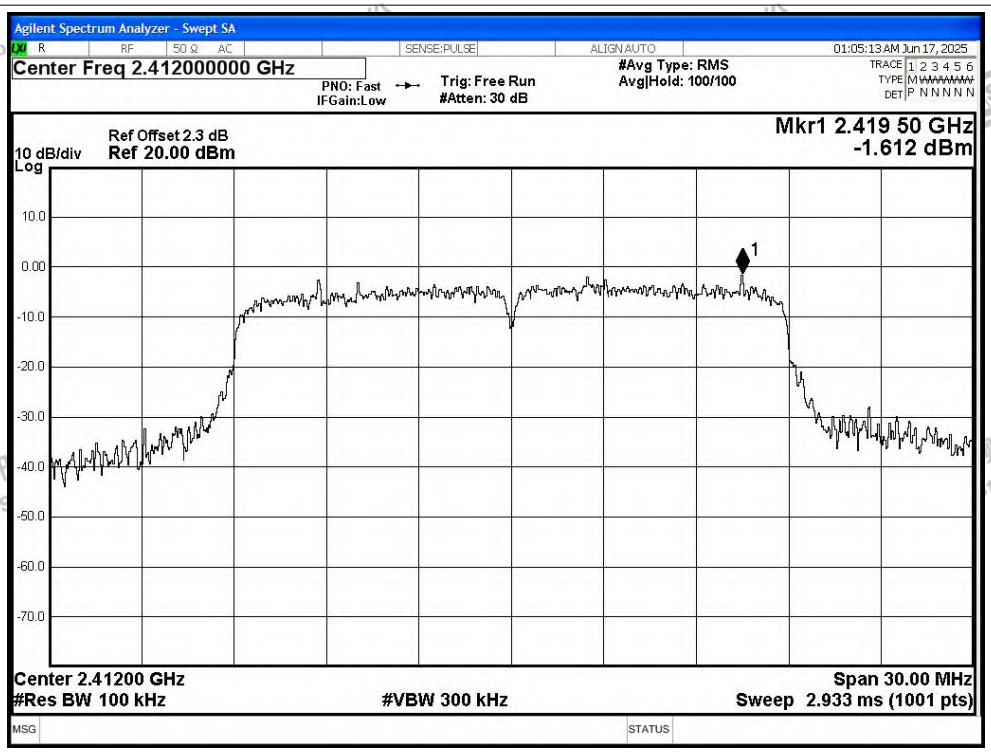
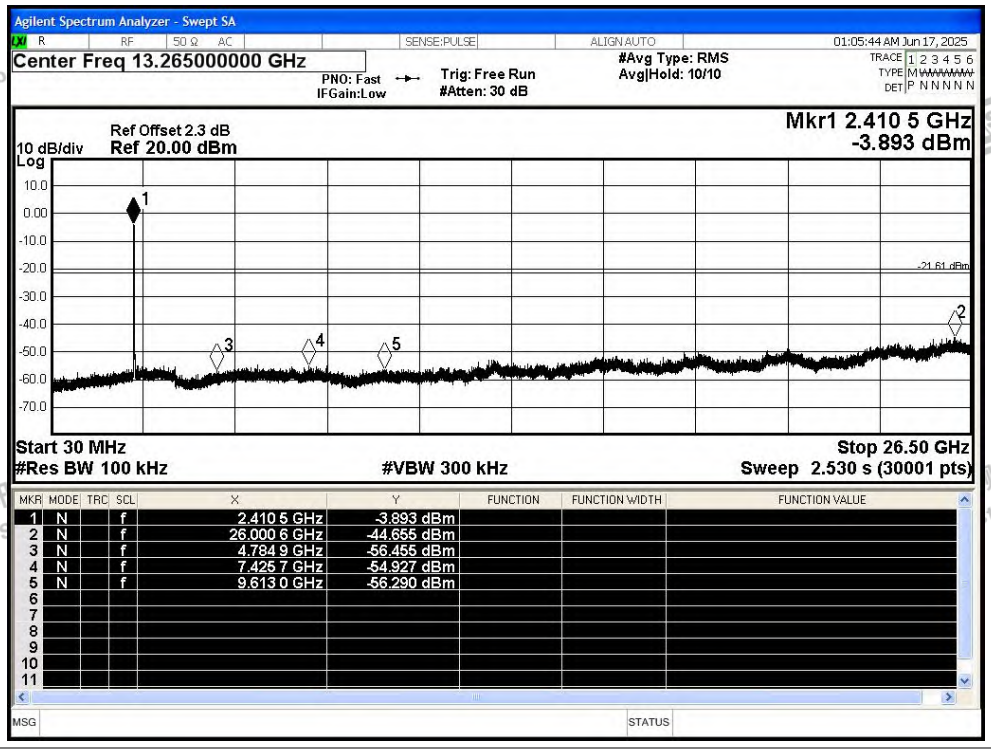
Tx. Spurious NVNT n20 2412MHz Ant1 Emission