Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Android TV Box

Test Model: Stream Genie

Environmental Conditions

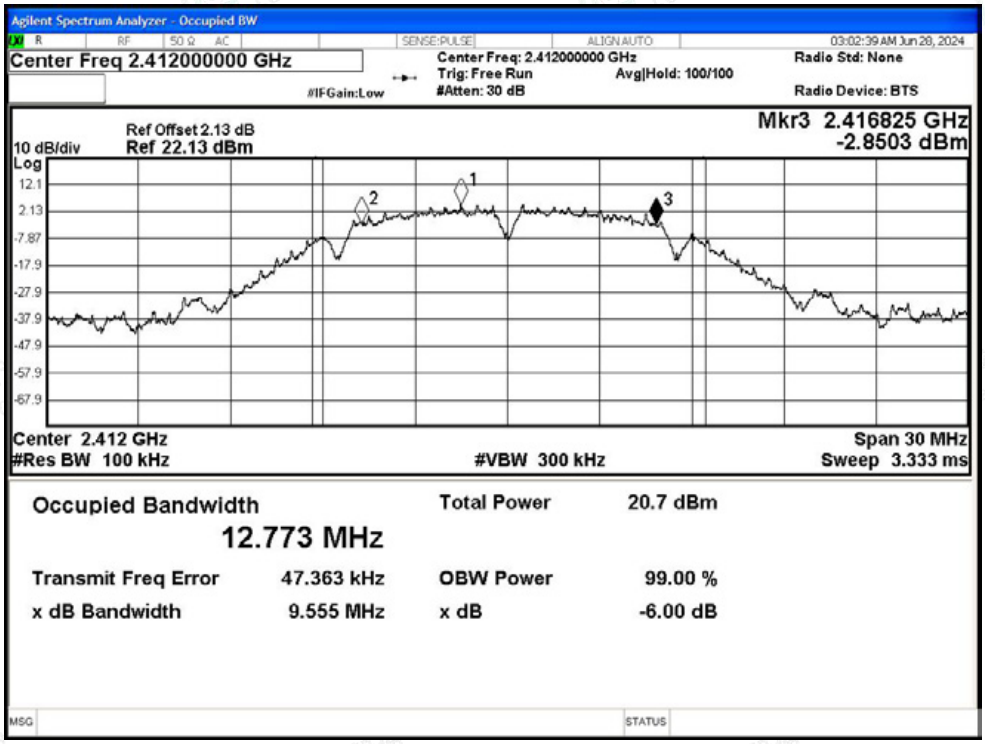
Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng

A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant0	9.555	>=0.5	Pass
NVNT	b	2437	Ant0	9.519	>=0.5	Pass
NVNT	b	2462	Ant0	9.998	>=0.5	Pass
NVNT	g	2412	Ant0	16.285	>=0.5	Pass
NVNT	g	2437	Ant0	13.83	>=0.5	Pass
NVNT	g	2462	Ant0	15.019	>=0.5	Pass
NVNT	n20	2412	Ant0	15.93	>=0.5	Pass
NVNT	n20	2437	Ant0	14.997	>=0.5	Pass
NVNT	n20	2462	Ant0	15.066	>=0.5	Pass
NVNT	n40	2422	Ant0	35.147	>=0.5	Pass
NVNT	n40	2437	Ant0	35.074	>=0.5	Pass
NVNT	n40	2452	Ant0	33.876	>=0.5	Pass

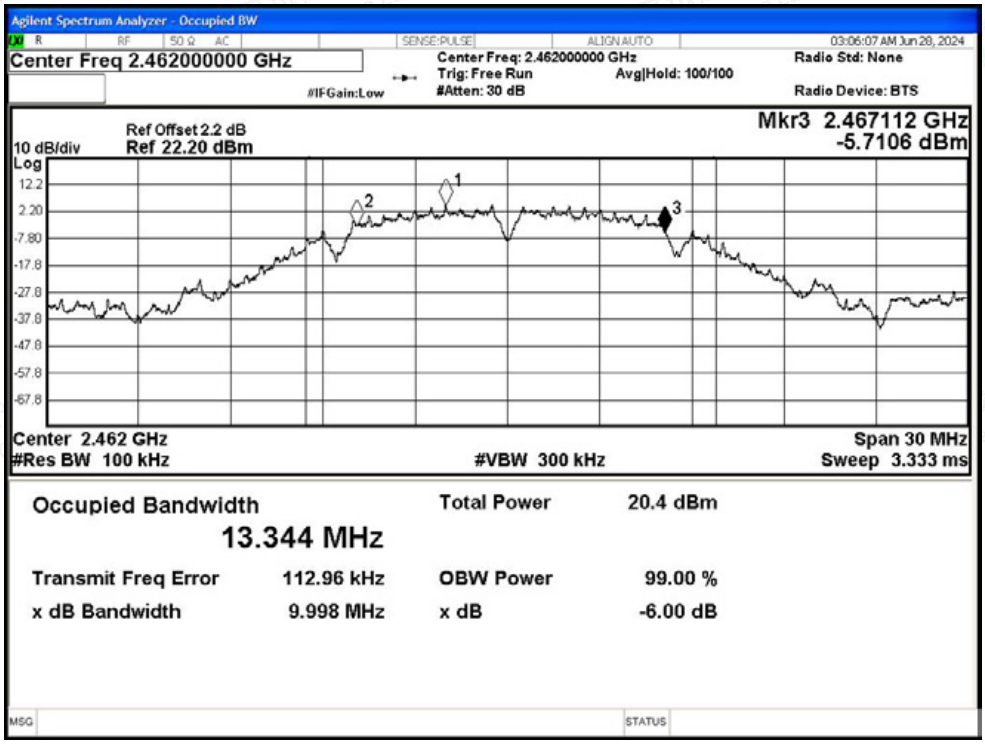
Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant0

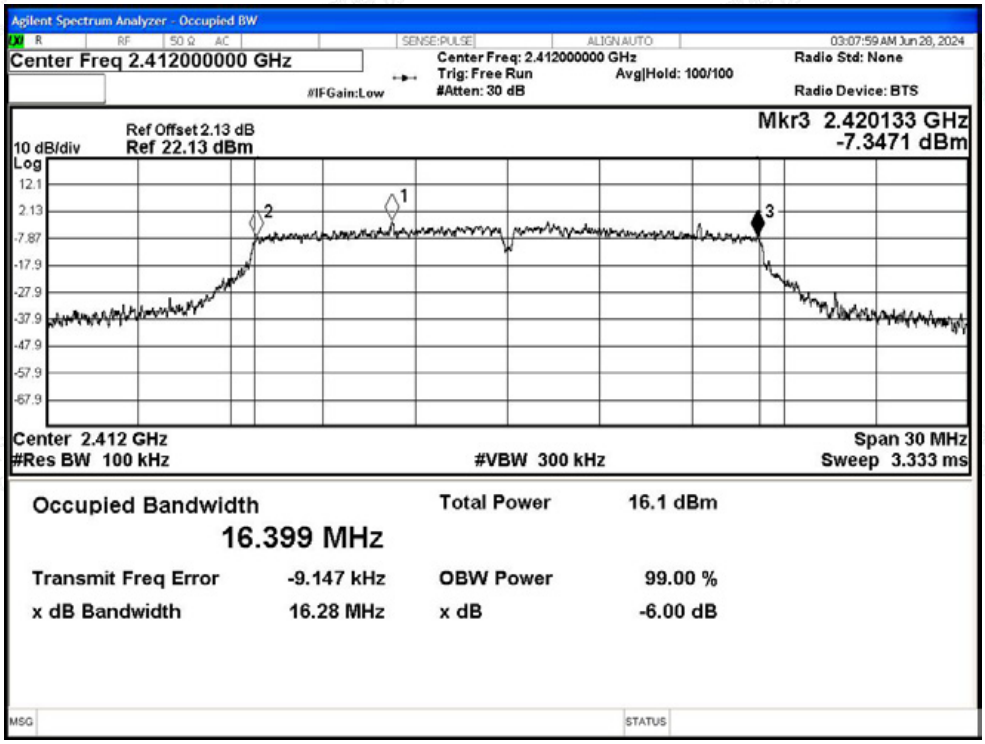


-6dB Bandwidth NVNT b 2437MHz Ant0

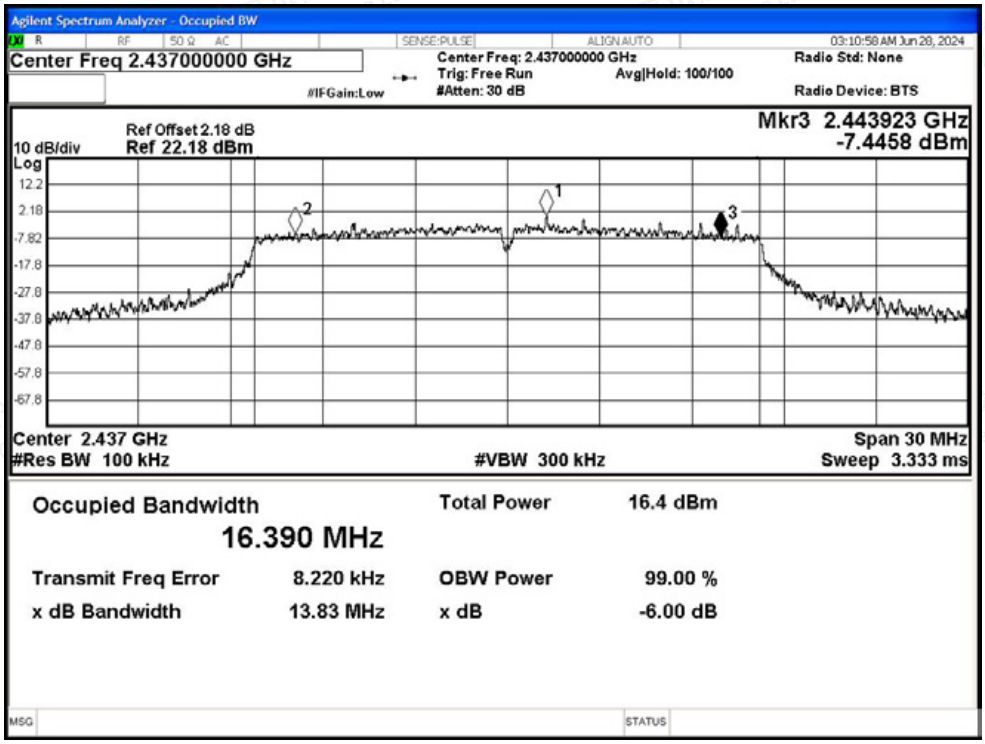
-6dB Bandwidth NVNT b 2462MHz Ant0



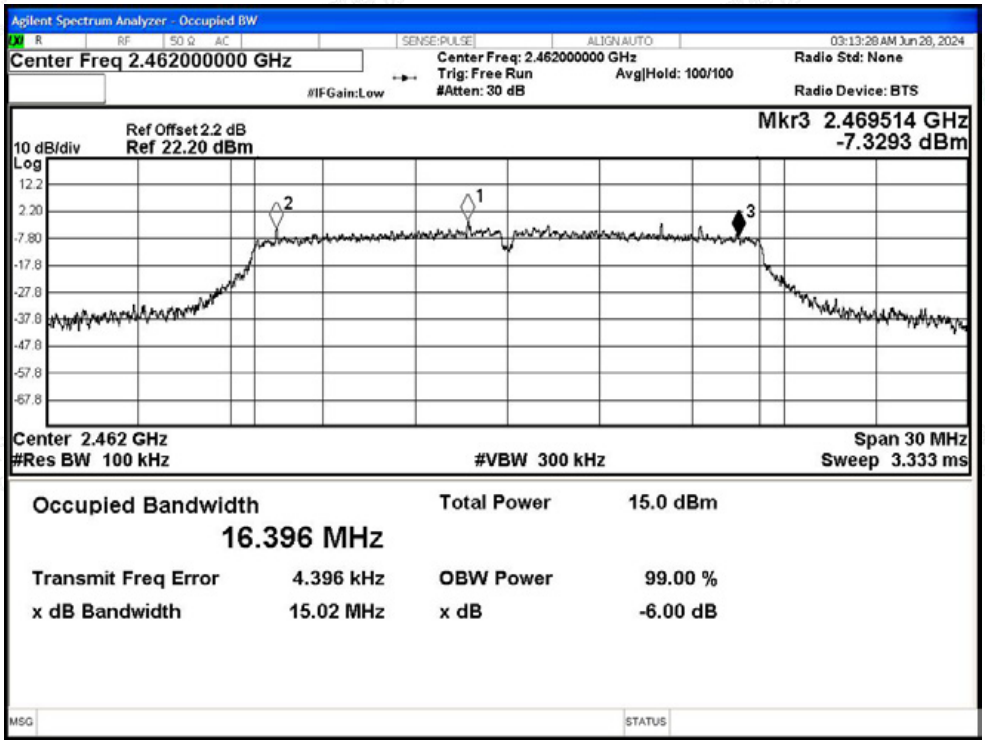
-6dB Bandwidth NVNT g 2412MHz Ant0



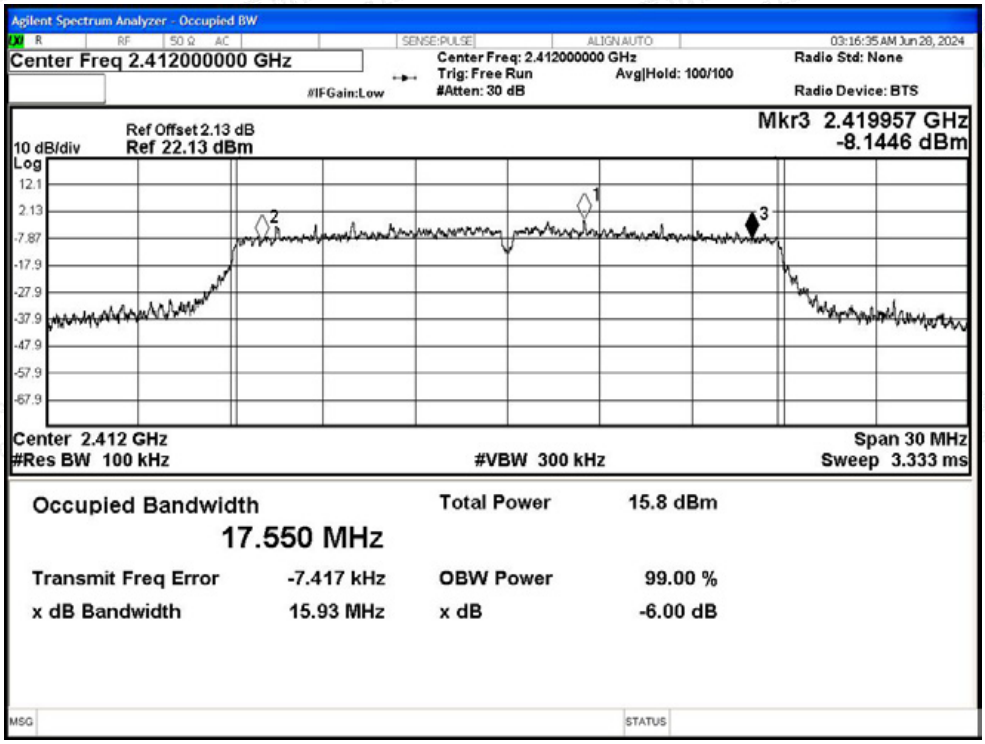
-6dB Bandwidth NVNT g 2437MHz Ant0



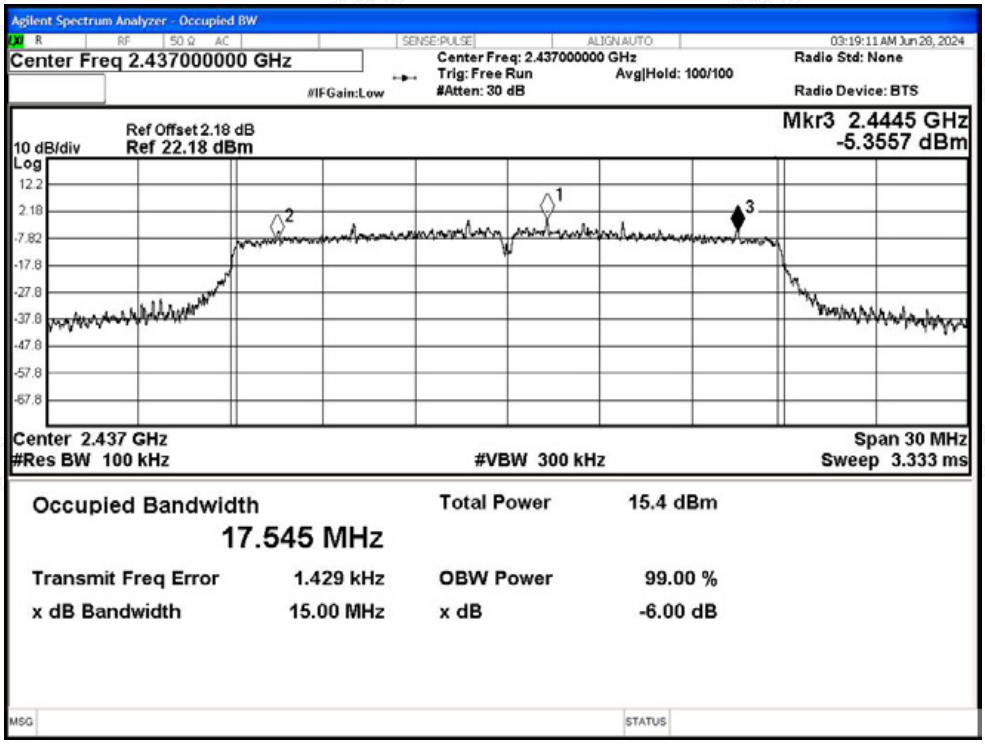
-6dB Bandwidth NVNT g 2462MHz Ant0



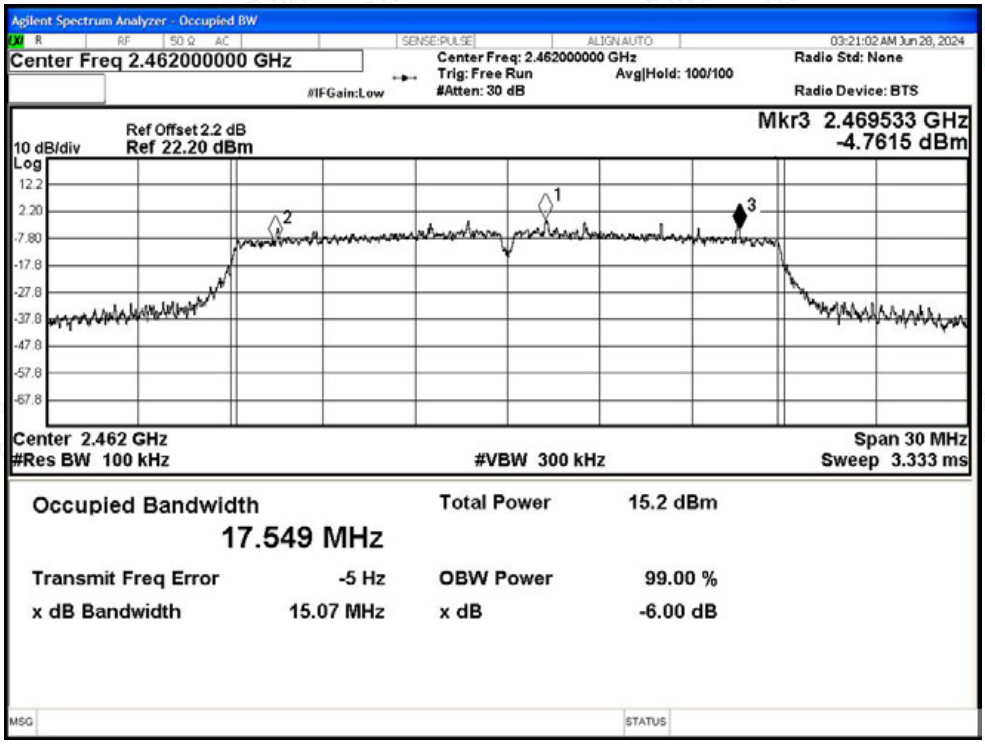
-6dB Bandwidth NVNT n20 2412MHz Ant0



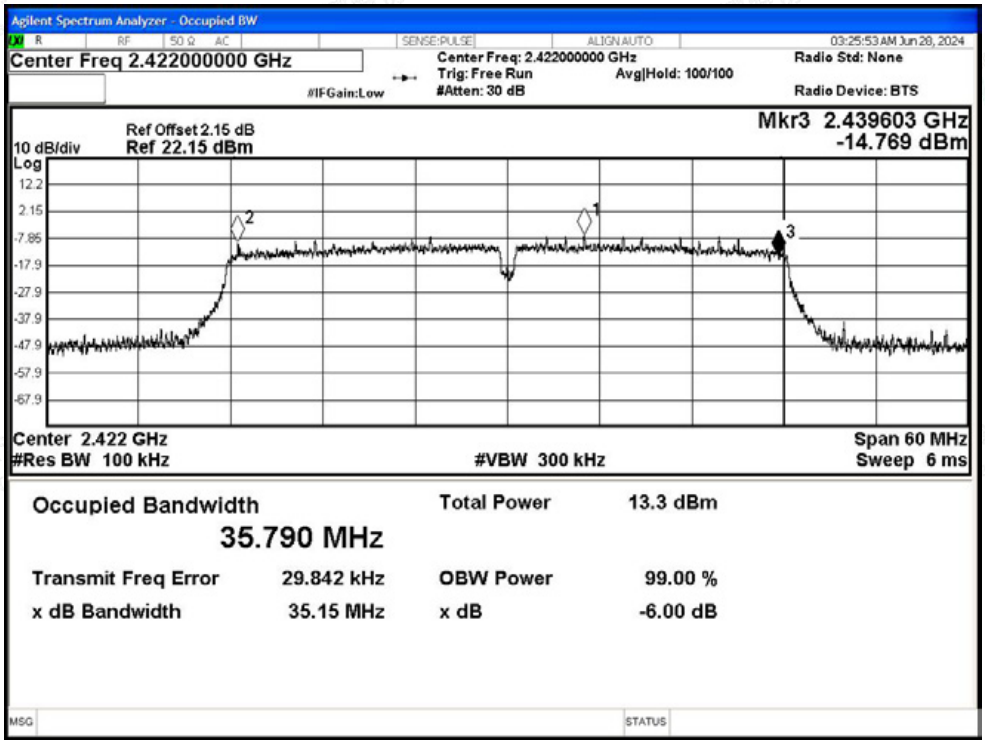
-6dB Bandwidth NVNT n20 2437MHz Ant0



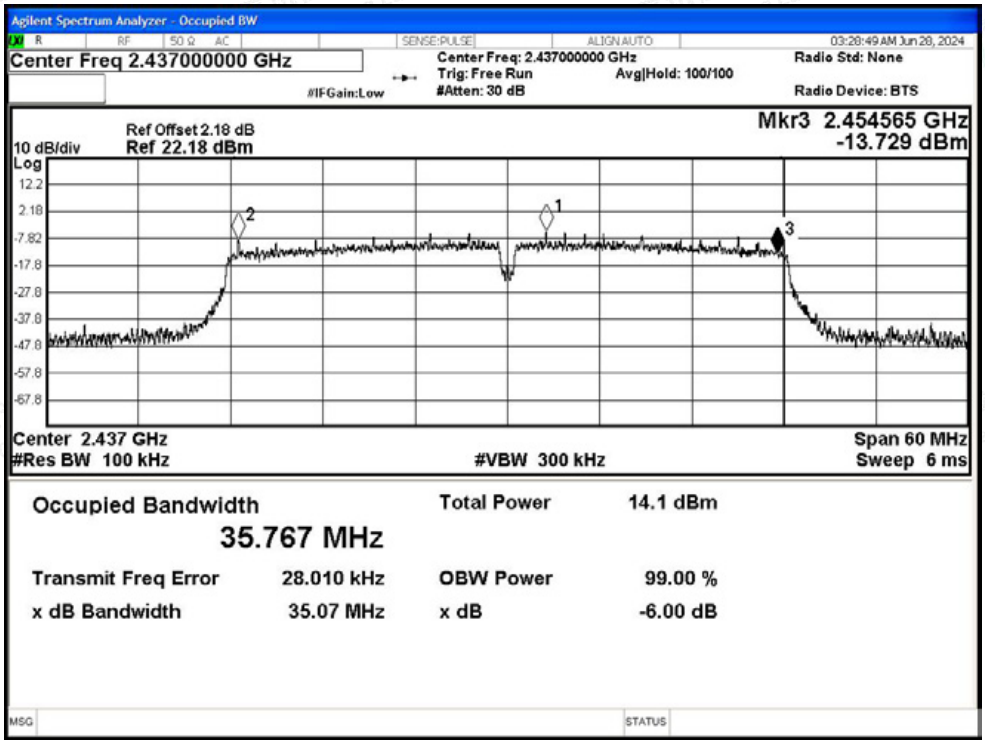
-6dB Bandwidth NVNT n20 2462MHz Ant0



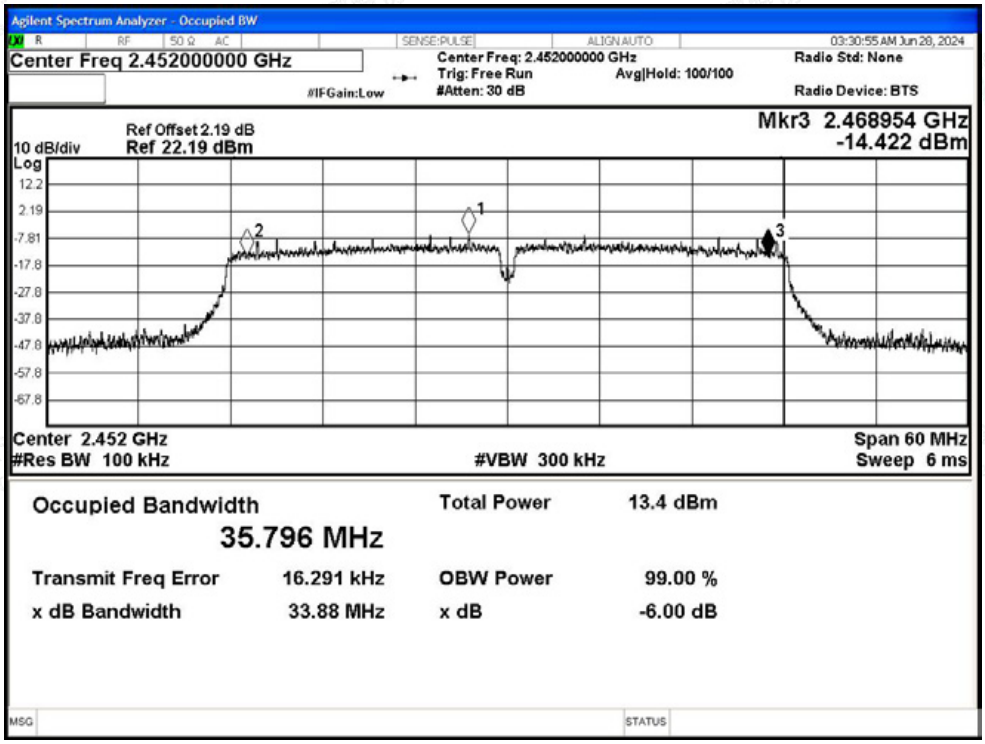
-6dB Bandwidth NVNT n40 2422MHz Ant0



-6dB Bandwidth NVNT n40 2437MHz Ant0



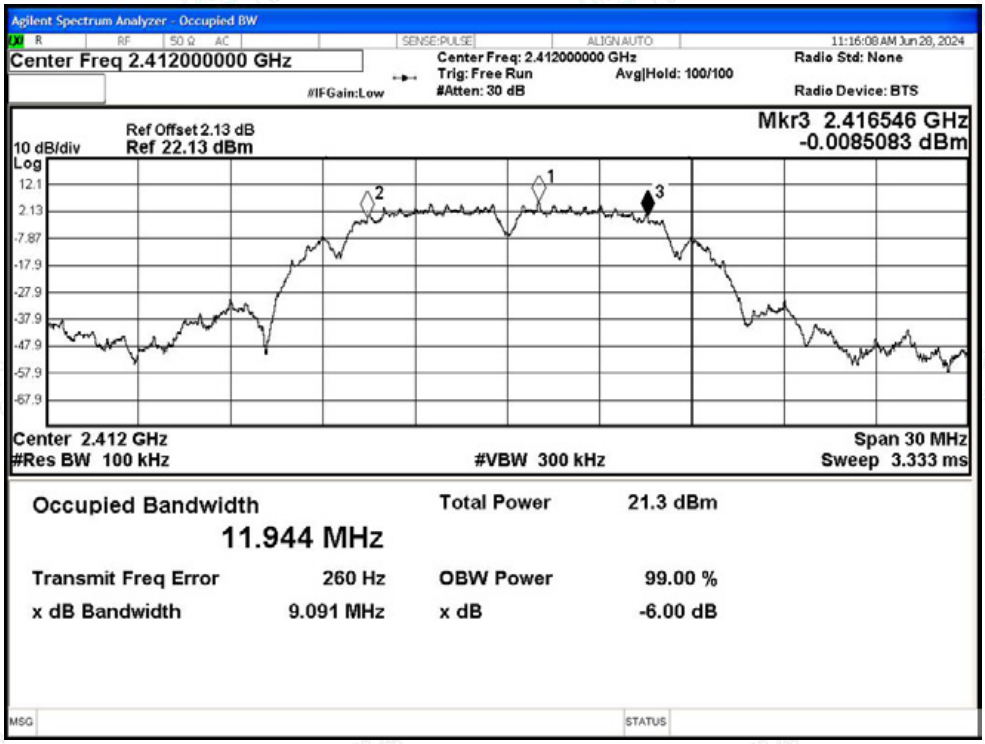
-6dB Bandwidth NVNT n40 2452MHz Ant0



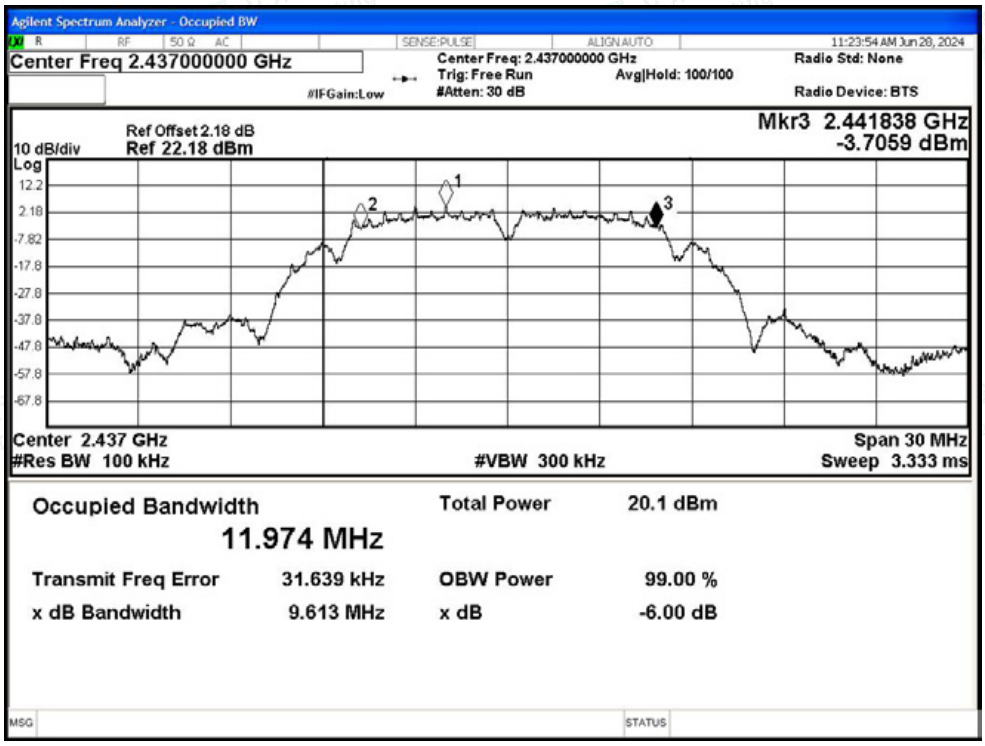
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.091	>=0.5	Pass
NVNT	b	2437	Ant1	9.613	>=0.5	Pass
NVNT	b	2462	Ant1	10.019	>=0.5	Pass
NVNT	g	2412	Ant1	16.308	>=0.5	Pass
NVNT	g	2437	Ant1	16.296	>=0.5	Pass
NVNT	g	2462	Ant1	16.086	>=0.5	Pass
NVNT	n20	2412	Ant1	15.896	>=0.5	Pass
NVNT	n20	2437	Ant1	16.037	>=0.5	Pass
NVNT	n20	2462	Ant1	15.29	>=0.5	Pass
NVNT	n40	2422	Ant1	35.006	>=0.5	Pass
NVNT	n40	2437	Ant1	35.363	>=0.5	Pass
NVNT	n40	2452	Ant1	33.83	>=0.5	Pass

Test Graphs

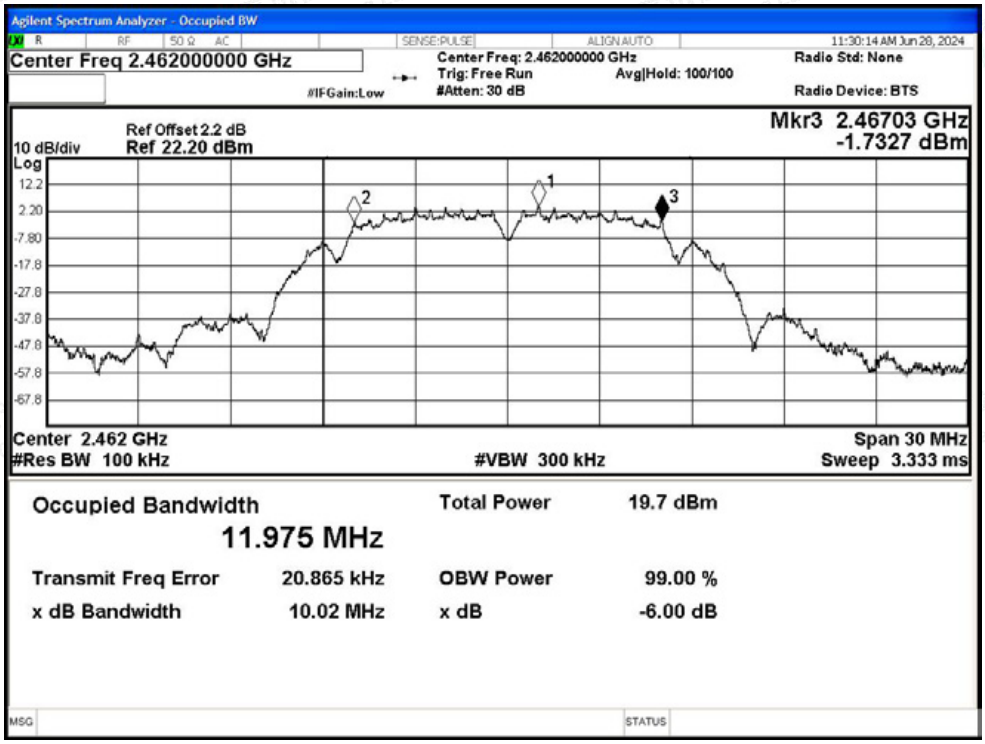
-6dB Bandwidth NVNT b 2412MHz Ant1



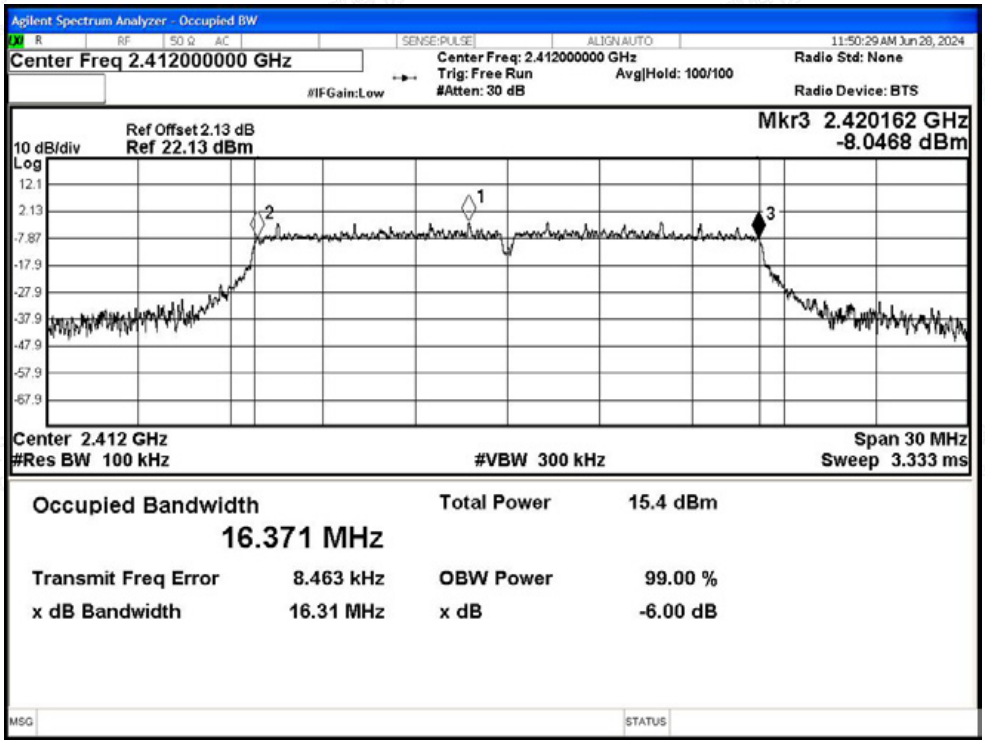
-6dB Bandwidth NVNT b 2437MHz Ant1



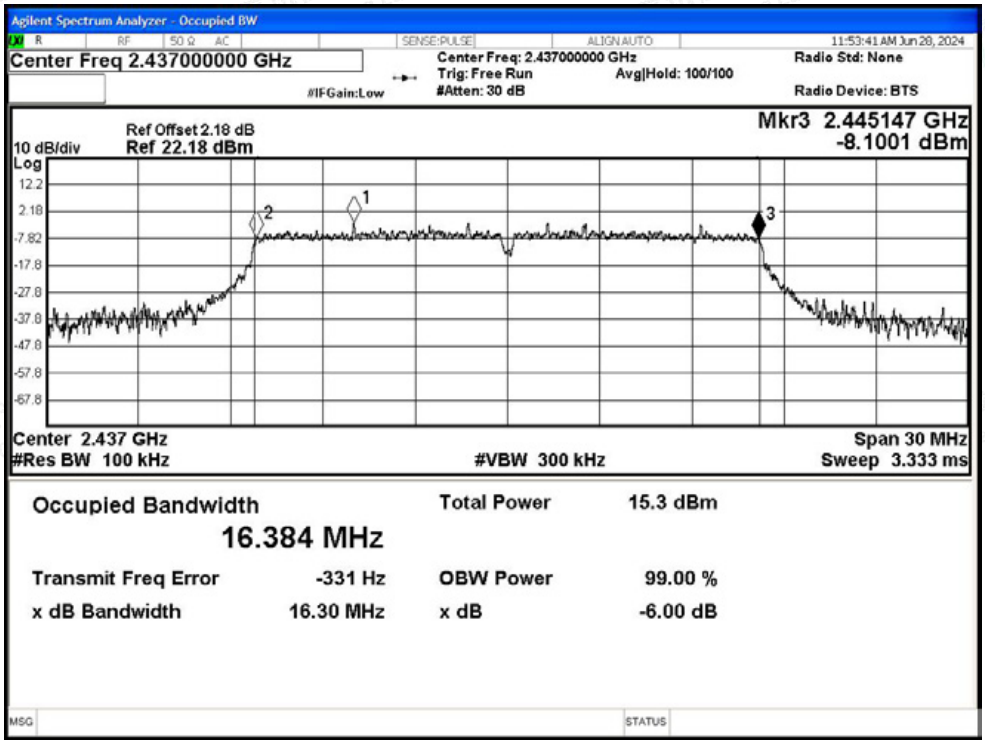
-6dB Bandwidth NVNT b 2462MHz Ant1



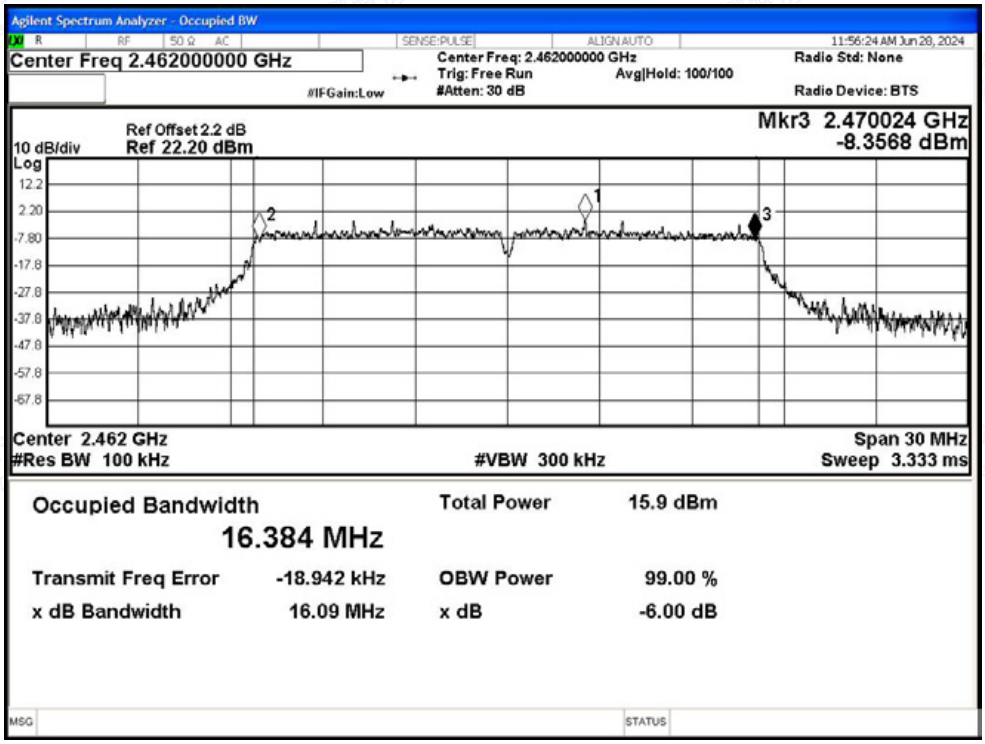
-6dB Bandwidth NVNT g 2412MHz Ant1



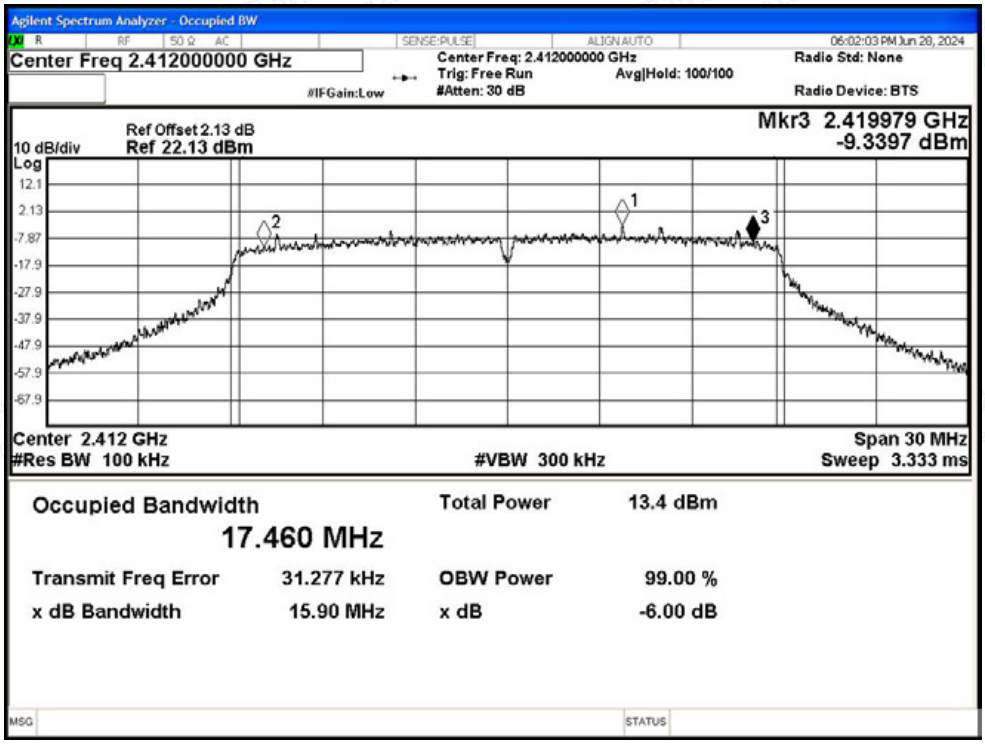
-6dB Bandwidth NVNT g 2437MHz Ant1



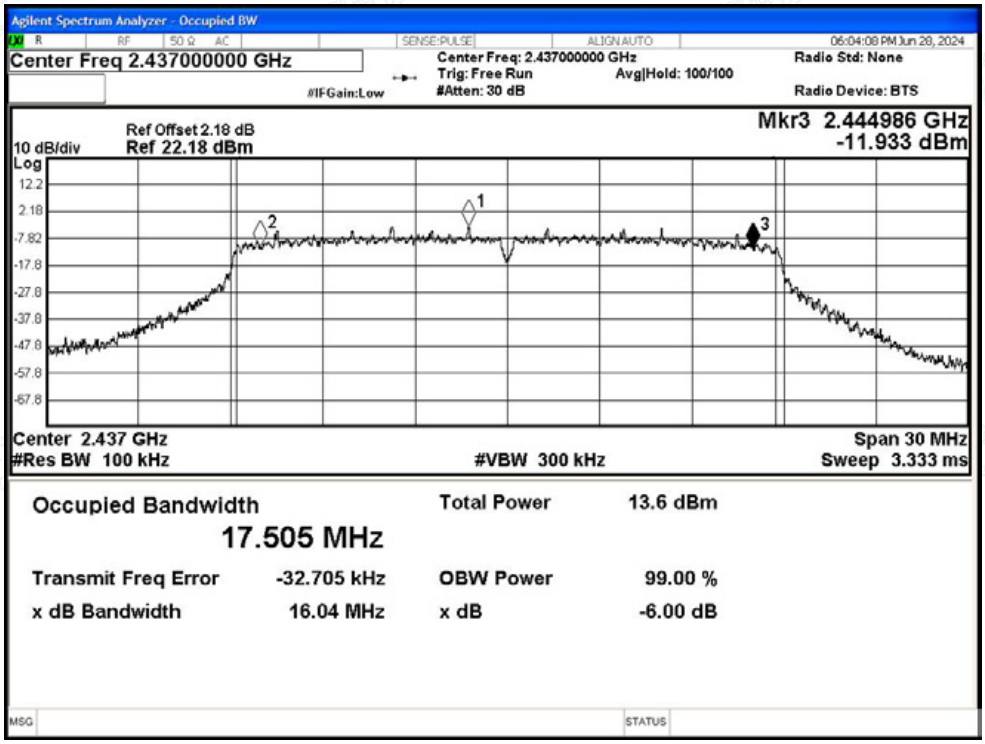
-6dB Bandwidth NVNT g 2462MHz Ant1



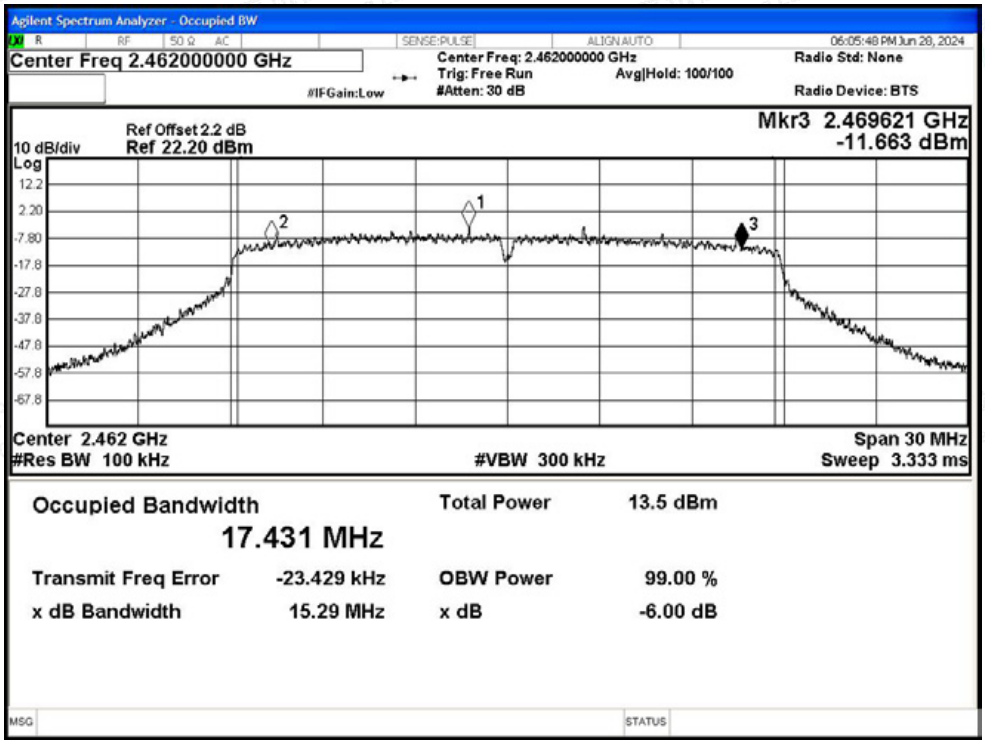
-6dB Bandwidth NVNT n20 2412MHz Ant1



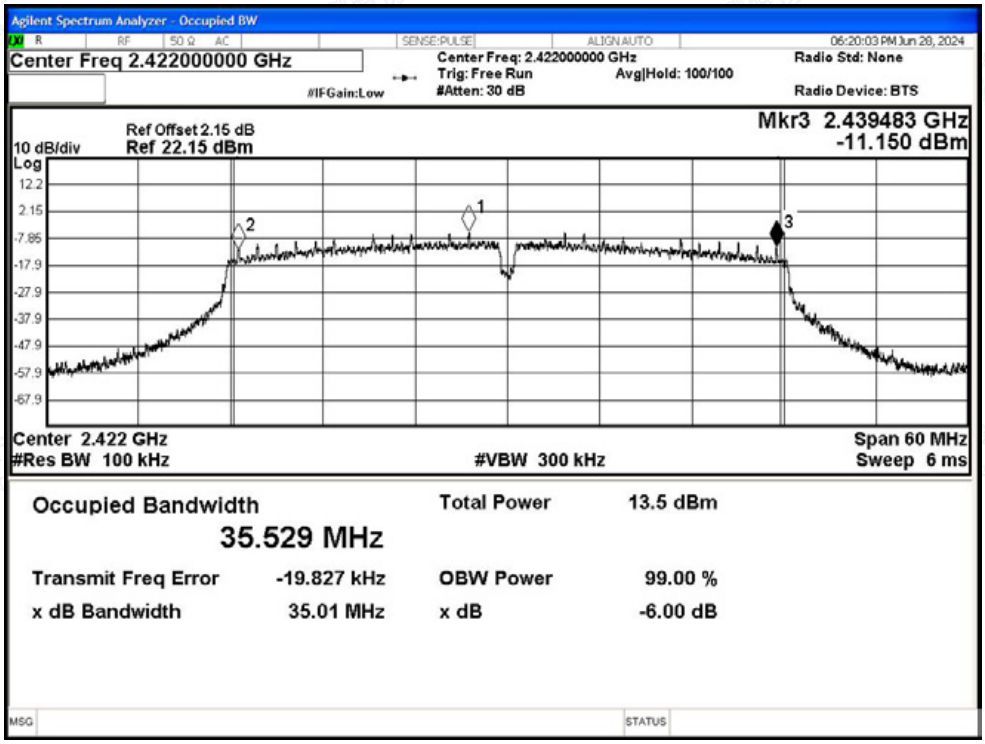
-6dB Bandwidth NVNT n20 2437MHz Ant1



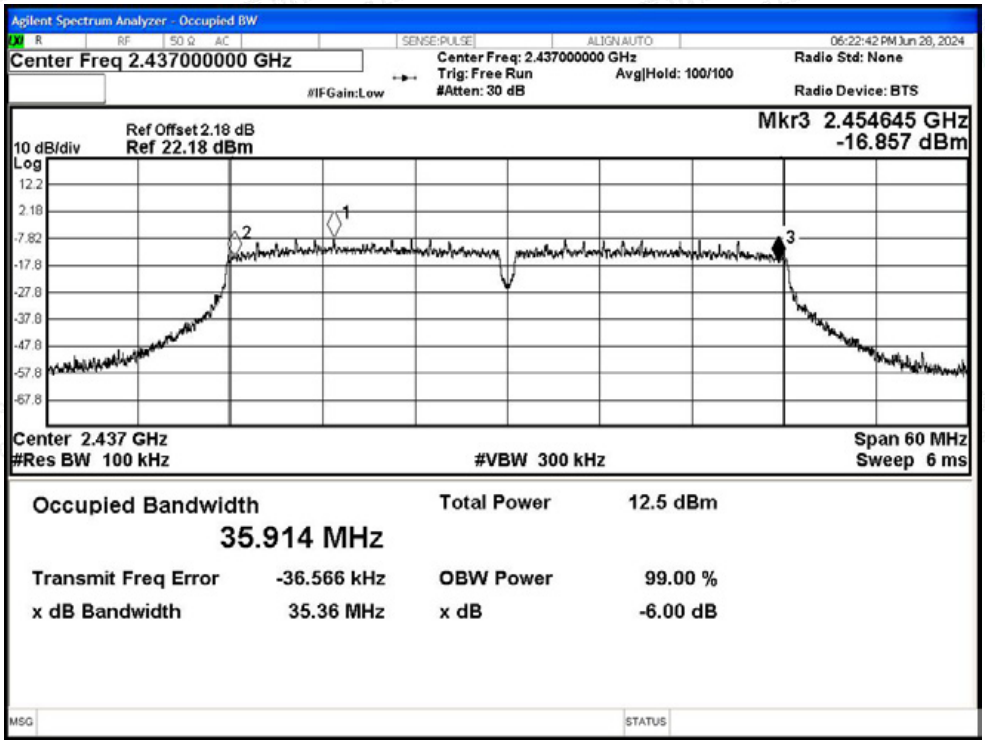
-6dB Bandwidth NVNT n20 2462MHz Ant1



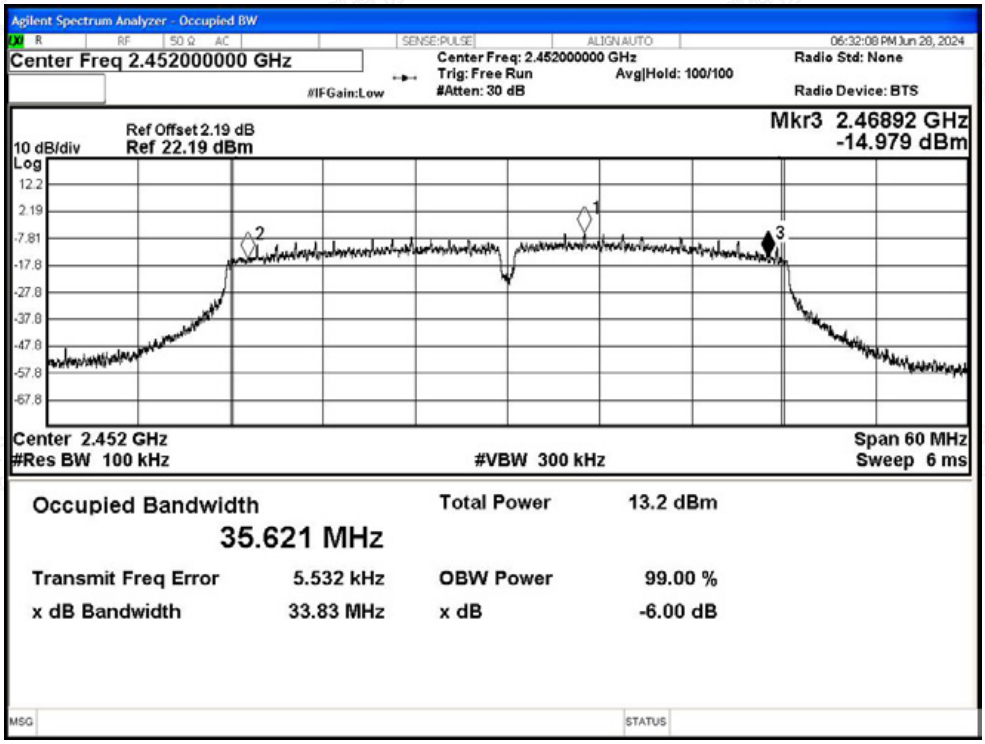
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant0	15.76	30	Pass
NVNT	b	2437	Ant0	15.93	30	Pass
NVNT	b	2462	Ant0	15.41	30	Pass
NVNT	g	2412	Ant0	14.79	30	Pass
NVNT	g	2437	Ant0	14.74	30	Pass
NVNT	g	2462	Ant0	13.79	30	Pass
NVNT	n20	2412	Ant0	13.89	30	Pass
NVNT	n20	2437	Ant0	13.97	30	Pass
NVNT	n20	2462	Ant0	13.84	30	Pass
NVNT	n40	2422	Ant0	12.91	30	Pass
NVNT	n40	2437	Ant0	12.58	30	Pass
NVNT	n40	2452	Ant0	12.9	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	14.28	30	Pass
NVNT	b	2437	Ant1	14.17	30	Pass
NVNT	b	2462	Ant1	14.77	30	Pass
NVNT	g	2412	Ant1	13.11	30	Pass
NVNT	g	2437	Ant1	13.78	30	Pass
NVNT	g	2462	Ant1	13.61	30	Pass
NVNT	n20	2412	Ant1	12.12	30	Pass
NVNT	n20	2437	Ant1	12.35	30	Pass
NVNT	n20	2462	Ant1	12.16	30	Pass
NVNT	n40	2422	Ant1	11.87	30	Pass
NVNT	n40	2437	Ant1	11.49	30	Pass
NVNT	n40	2452	Ant1	11.67	30	Pass

MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	2412	13.89	12.12	16.10	30	Pass
NVNT	n20	2437	13.97	12.35	16.25	30	Pass
NVNT	n20	2462	13.84	12.16	16.09	30	Pass
NVNT	n40	2422	12.91	11.87	15.43	30	Pass
NVNT	n40	2437	12.58	11.49	15.08	30	Pass
NVNT	n40	2452	12.90	11.67	15.34	30	Pass

A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant0	-9.34	8	Pass
NVNT	b	2437	Ant0	-9.96	8	Pass
NVNT	b	2462	Ant0	-9.37	8	Pass
NVNT	g	2412	Ant0	-14.58	8	Pass
NVNT	g	2437	Ant0	-14.28	8	Pass
NVNT	g	2462	Ant0	-15.47	8	Pass
NVNT	n20	2412	Ant0	-14.62	8	Pass
NVNT	n20	2437	Ant0	-15	8	Pass
NVNT	n20	2462	Ant0	-15.55	8	Pass
NVNT	n40	2422	Ant0	-20.32	8	Pass
NVNT	n40	2437	Ant0	-19.85	8	Pass
NVNT	n40	2452	Ant0	-20.24	8	Pass

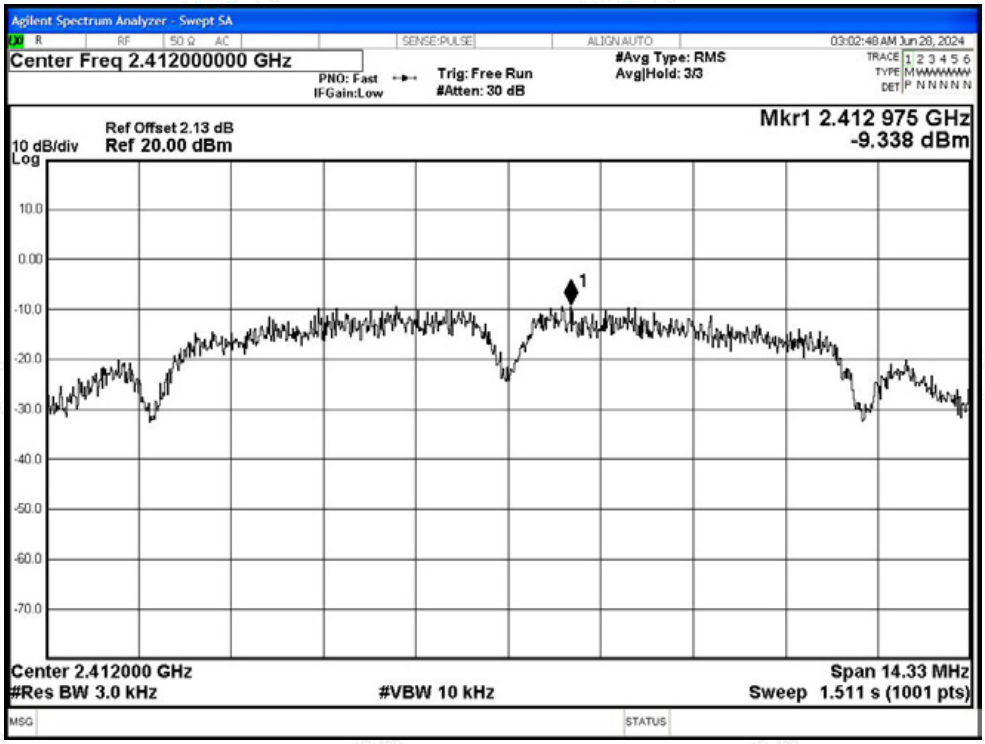
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-8.5	8	Pass
NVNT	b	2437	Ant1	-9.49	8	Pass
NVNT	b	2462	Ant1	-10.19	8	Pass
NVNT	g	2412	Ant1	-16.29	8	Pass
NVNT	g	2437	Ant1	-15.88	8	Pass
NVNT	g	2462	Ant1	-15	8	Pass
NVNT	n20	2412	Ant1	-18.04	8	Pass
NVNT	n20	2437	Ant1	-18.2	8	Pass
NVNT	n20	2462	Ant1	-17.23	8	Pass
NVNT	n40	2422	Ant1	-19.05	8	Pass
NVNT	n40	2437	Ant1	-21.83	8	Pass
NVNT	n40	2452	Ant1	-20.57	8	Pass

MIMO

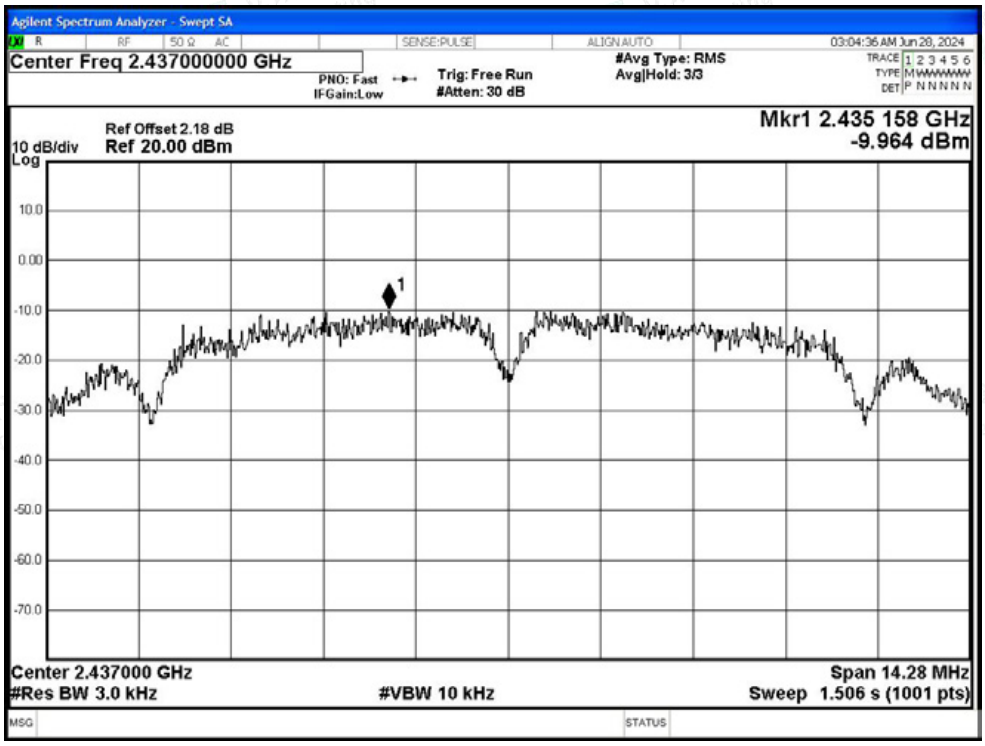
Condition	Mode	Frequency (MHz)	Total PSD (dBm/3kHz)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	2412	-14.62	-18.04	-12.99	8	Pass
NVNT	n20	2437	-15	-18.2	-13.30	8	Pass
NVNT	n20	2462	-15.55	-17.23	-13.30	8	Pass
NVNT	n40	2422	-20.32	-19.05	-16.63	8	Pass
NVNT	n40	2437	-19.85	-21.83	-17.72	8	Pass
NVNT	n40	2452	-20.24	-20.57	-17.39	8	Pass

Test Graphs

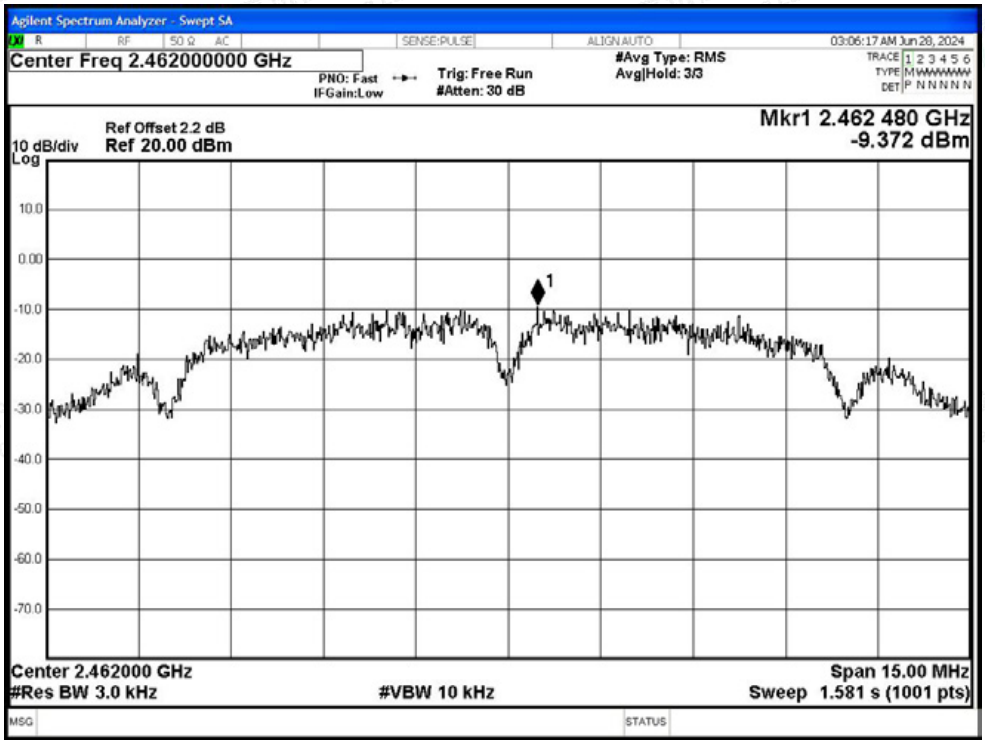
PSD NVNT b 2412MHz Ant0



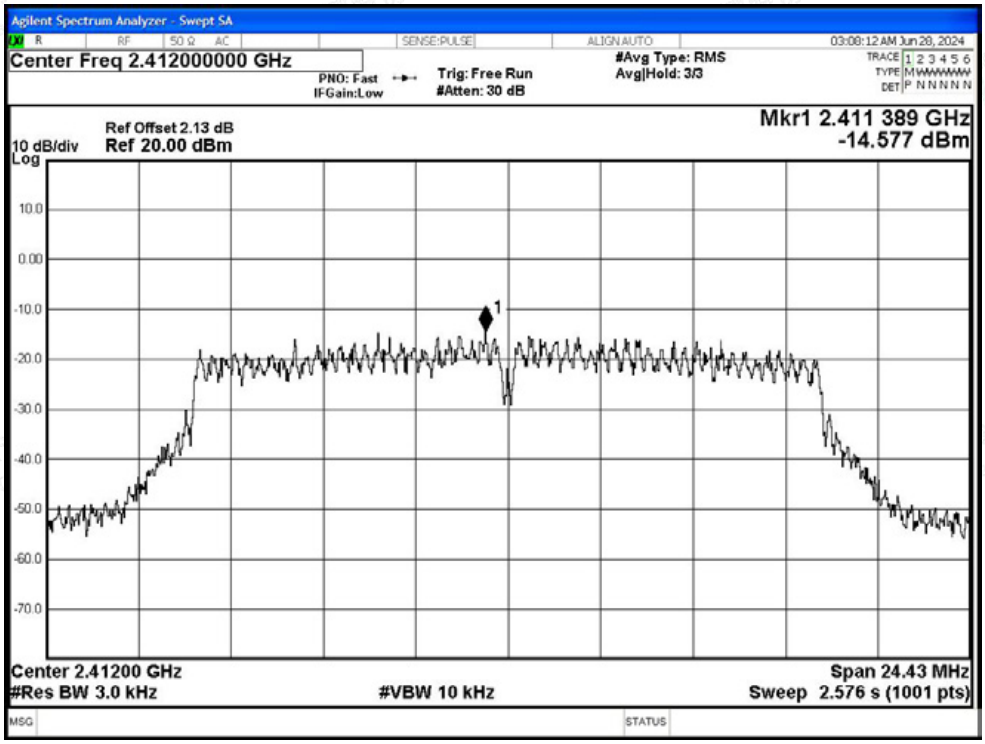
PSD NVNT b 2437MHz Ant0



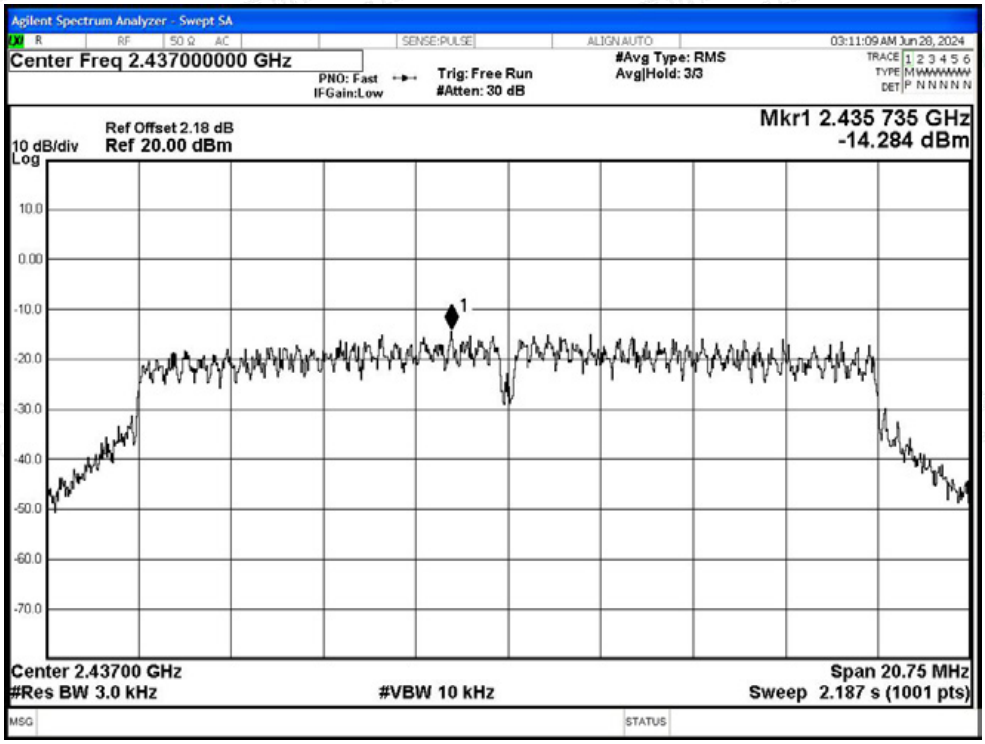
PSD NVNT b 2462MHz Ant0



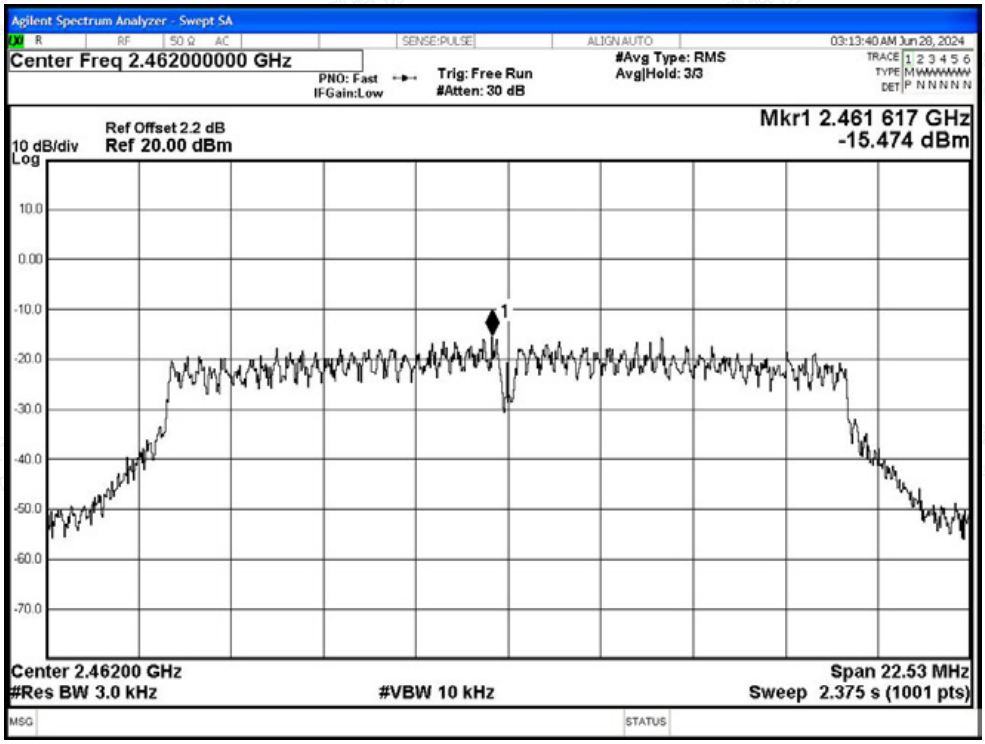
PSD NVNT g 2412MHz Ant0



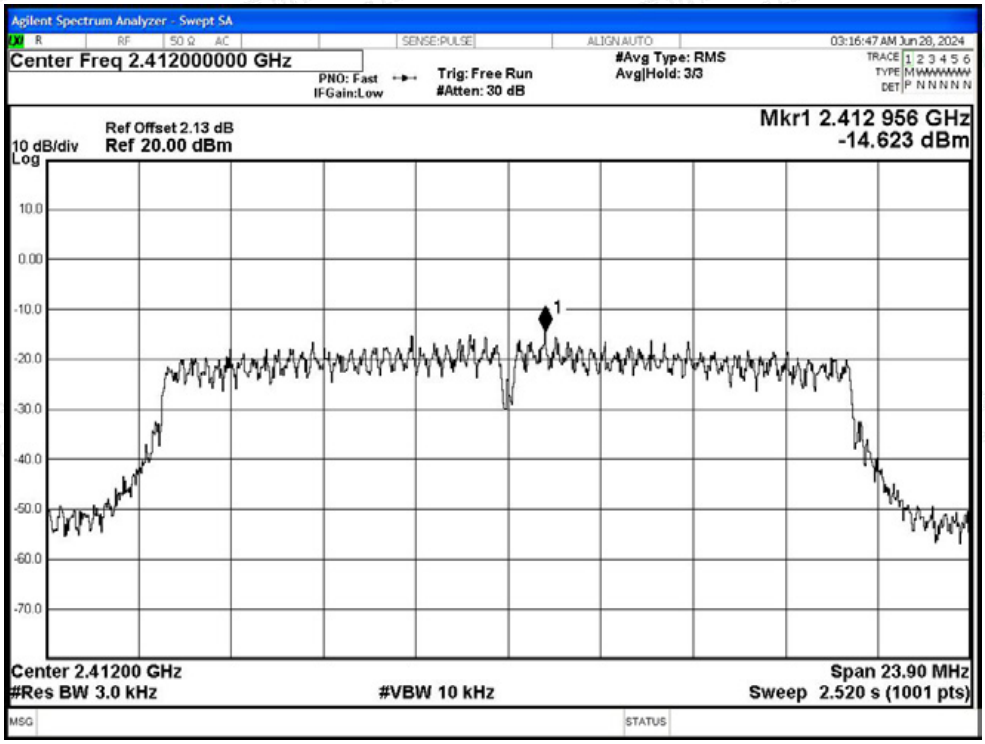
PSD NVNT g 2437MHz Ant0



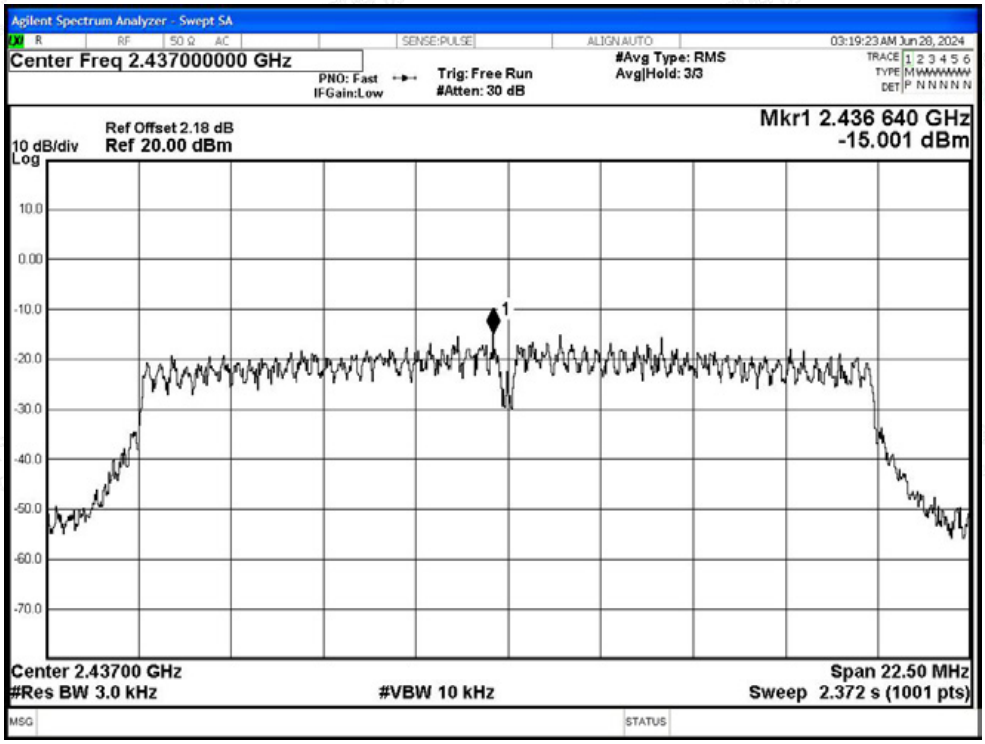
PSD NVNT g 2462MHz Ant0



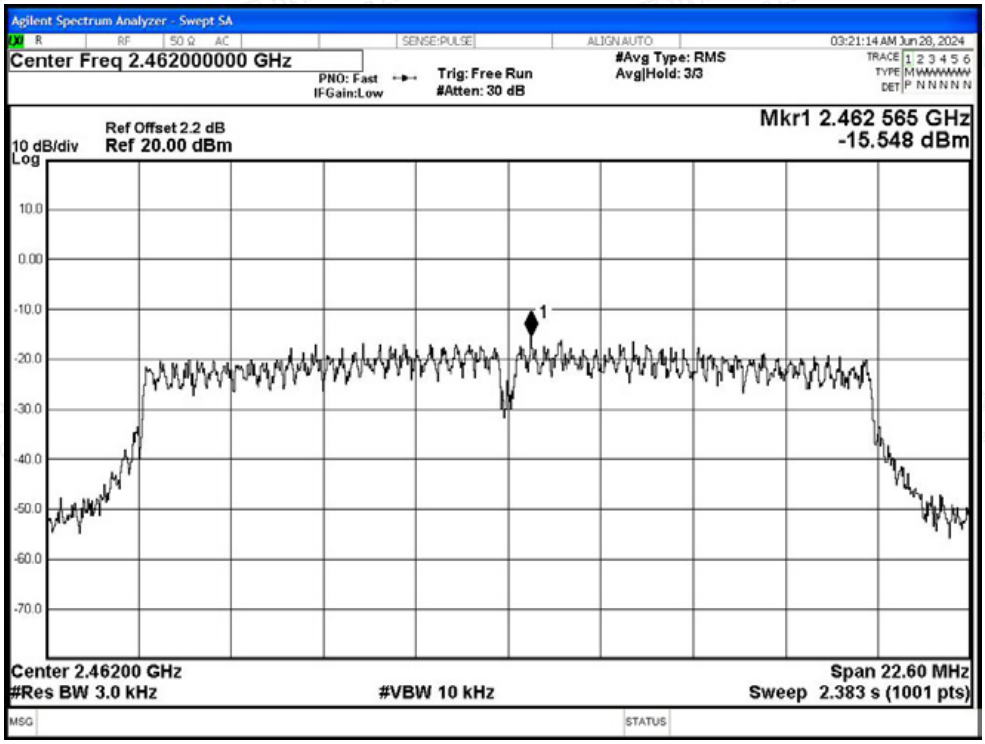
PSD NVNT n20 2412MHz Ant0



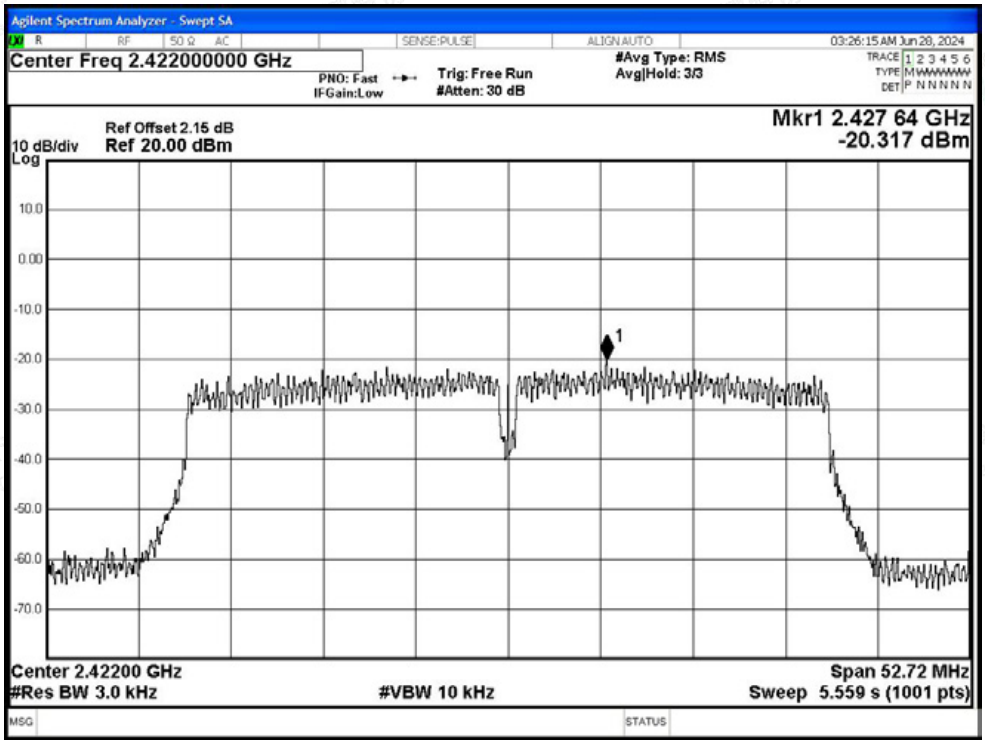
PSD NVNT n20 2437MHz Ant0



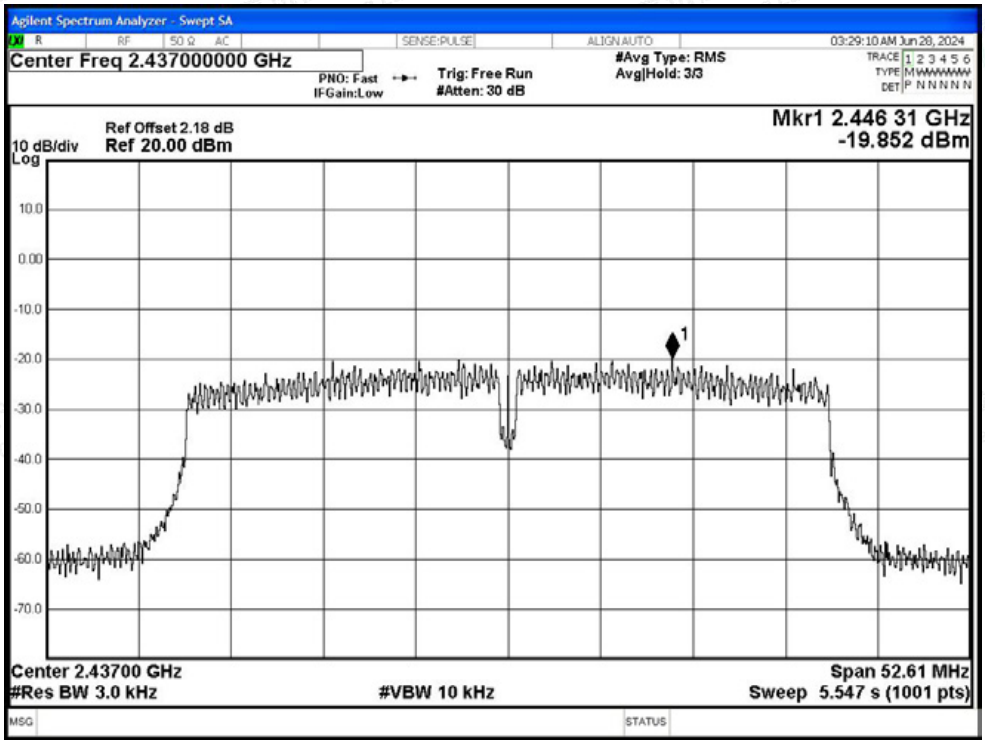
PSD NVNT n20 2462MHz Ant0



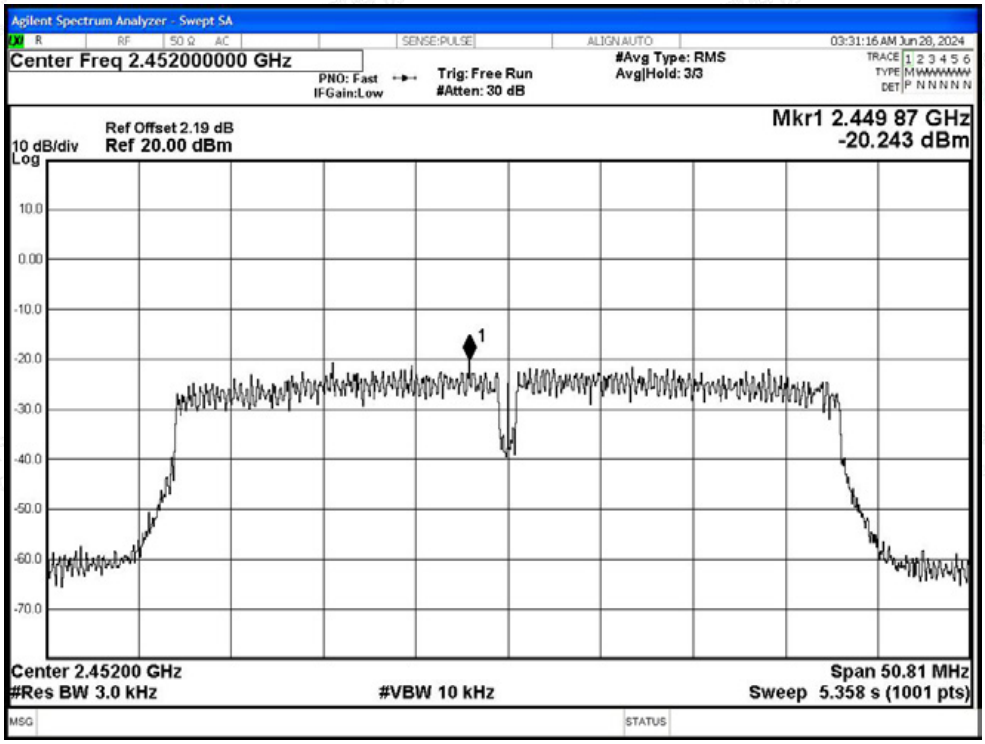
PSD NVNT n40 2422MHz Ant0



PSD NVNT n40 2437MHz Ant0

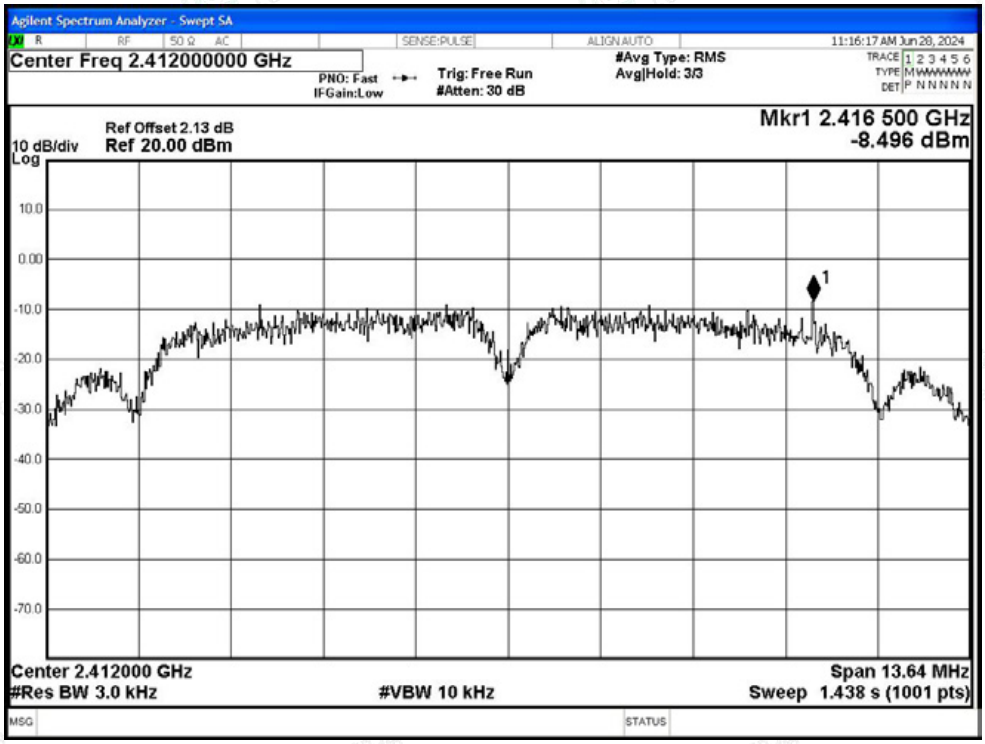


PSD NVNT n40 2452MHz Ant0

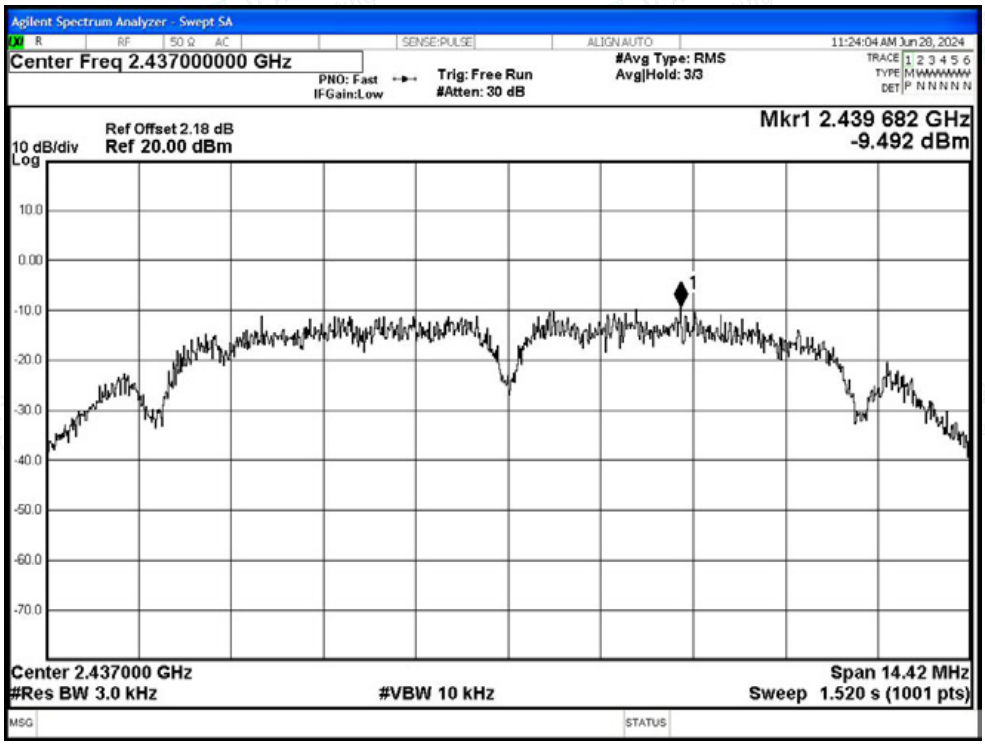


Test Graphs

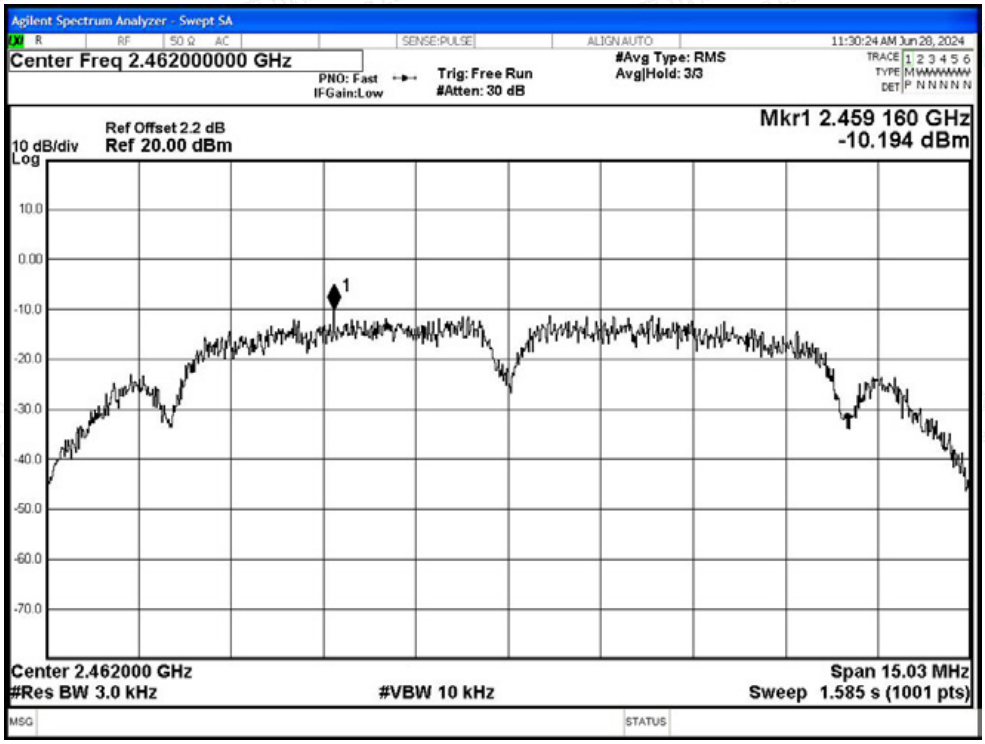
PSD NVNT b 2412MHz Ant1



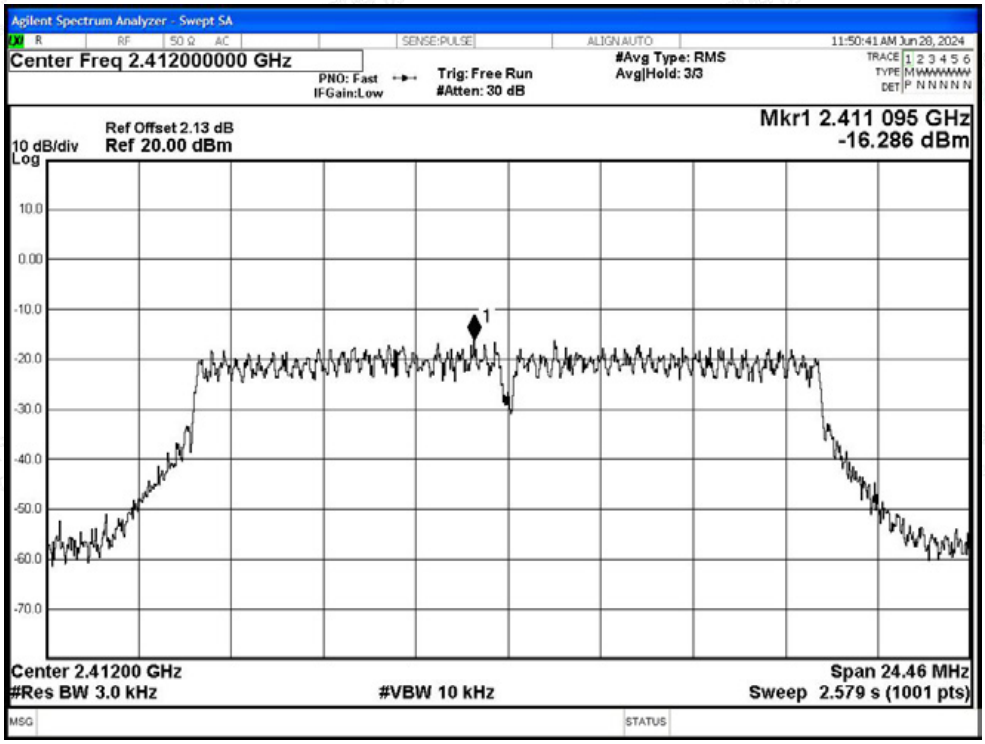
PSD NVNT b 2437MHz Ant1



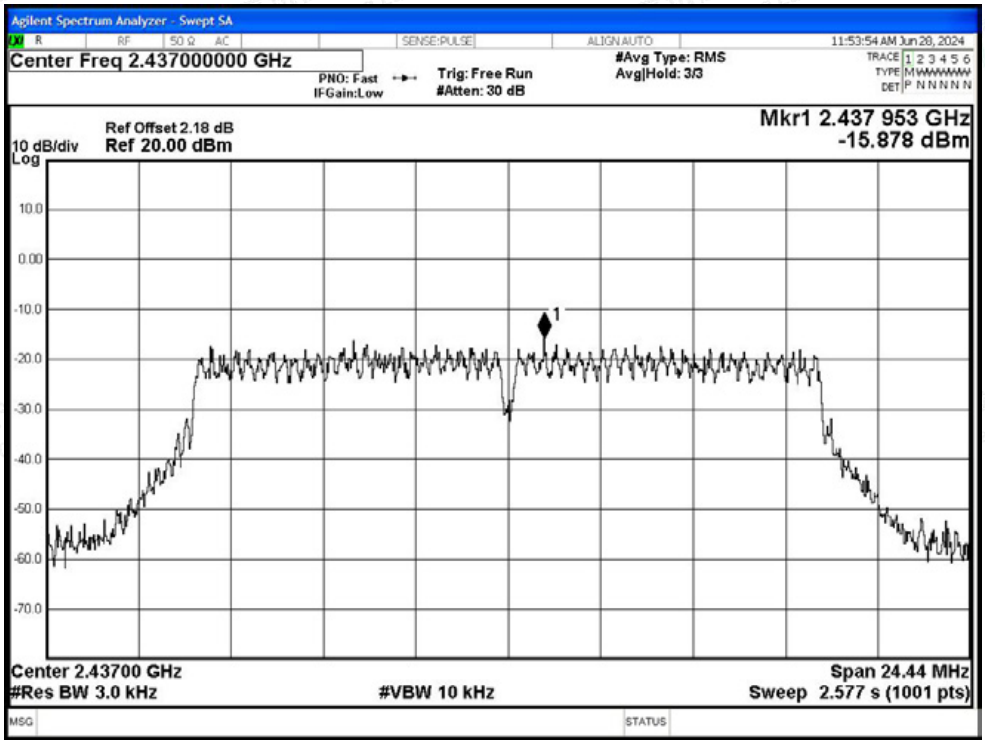
PSD NVNT b 2462MHz Ant1



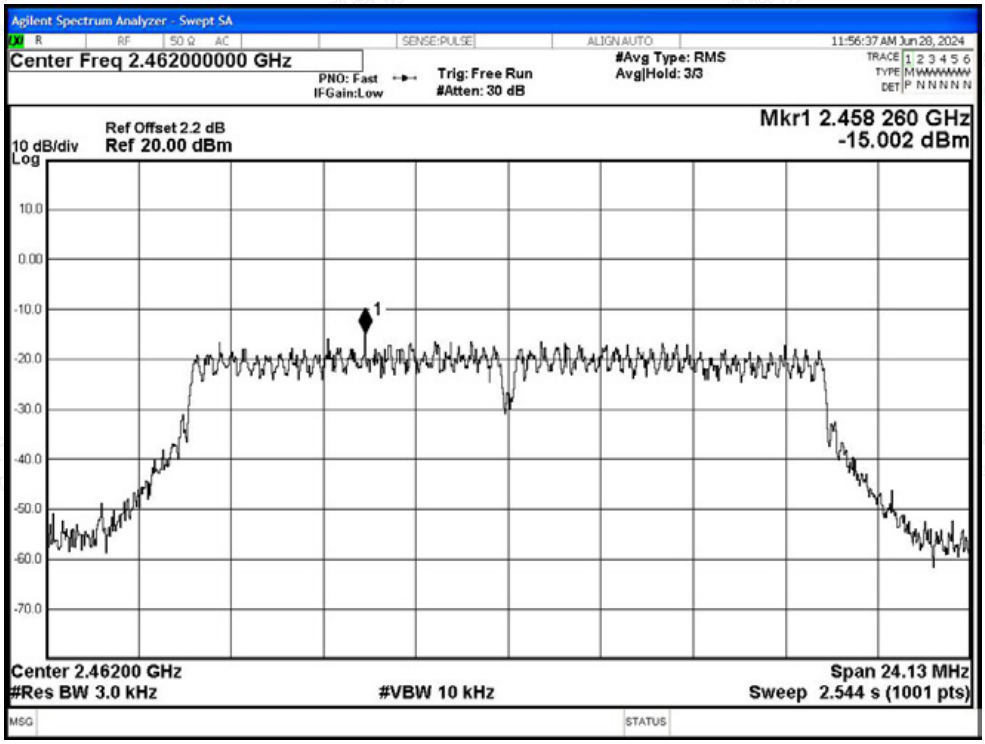
PSD NVNT g 2412MHz Ant1



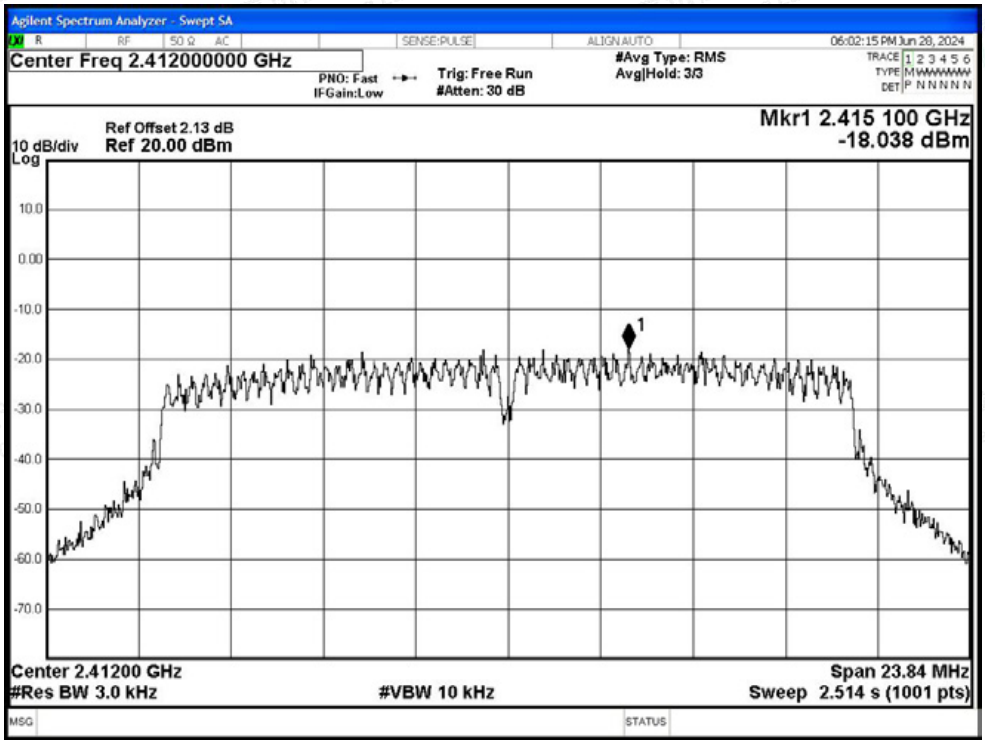
PSD NVNT g 2437MHz Ant1



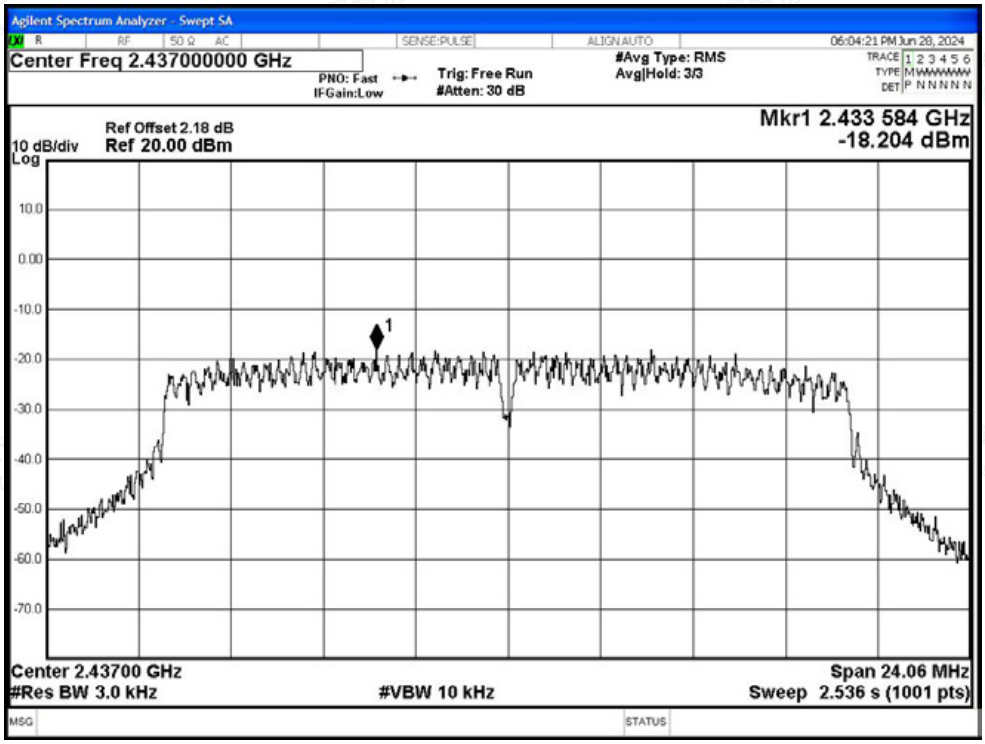
PSD NVNT g 2462MHz Ant1



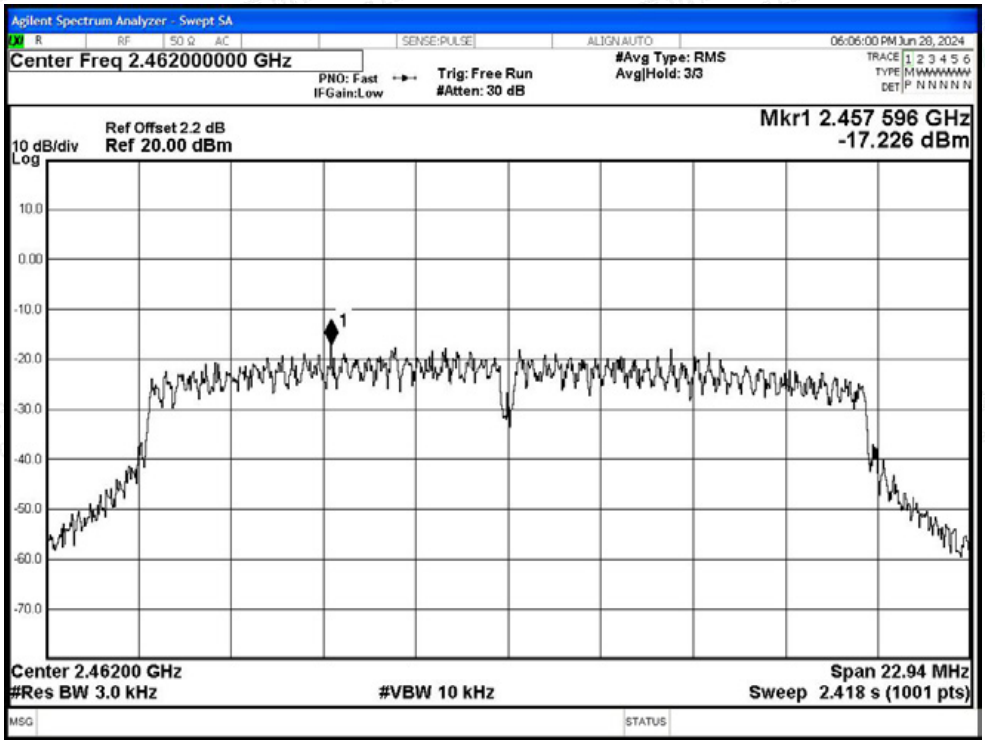
PSD NVNT n20 2412MHz Ant1



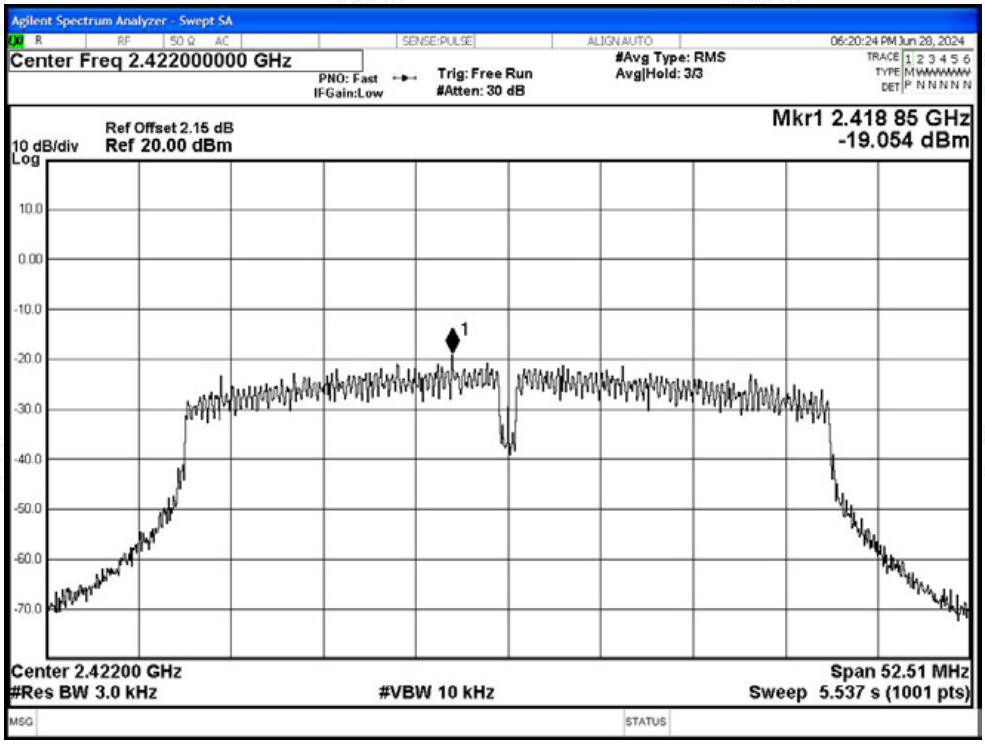
PSD NVNT n20 2437MHz Ant1



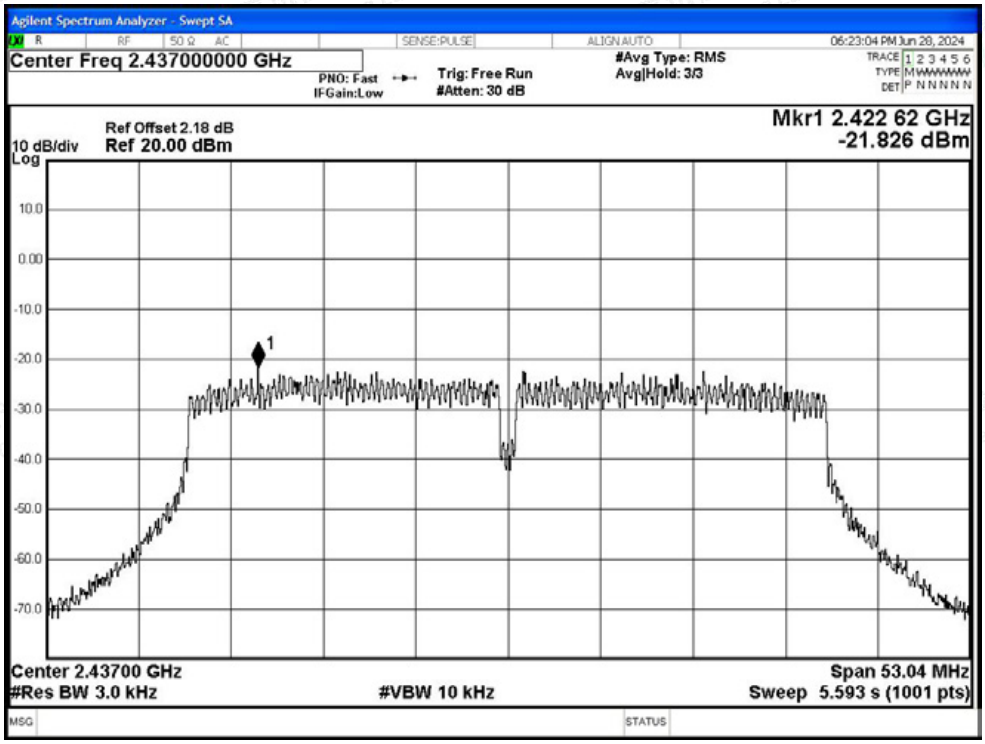
PSD NVNT n20 2462MHz Ant1



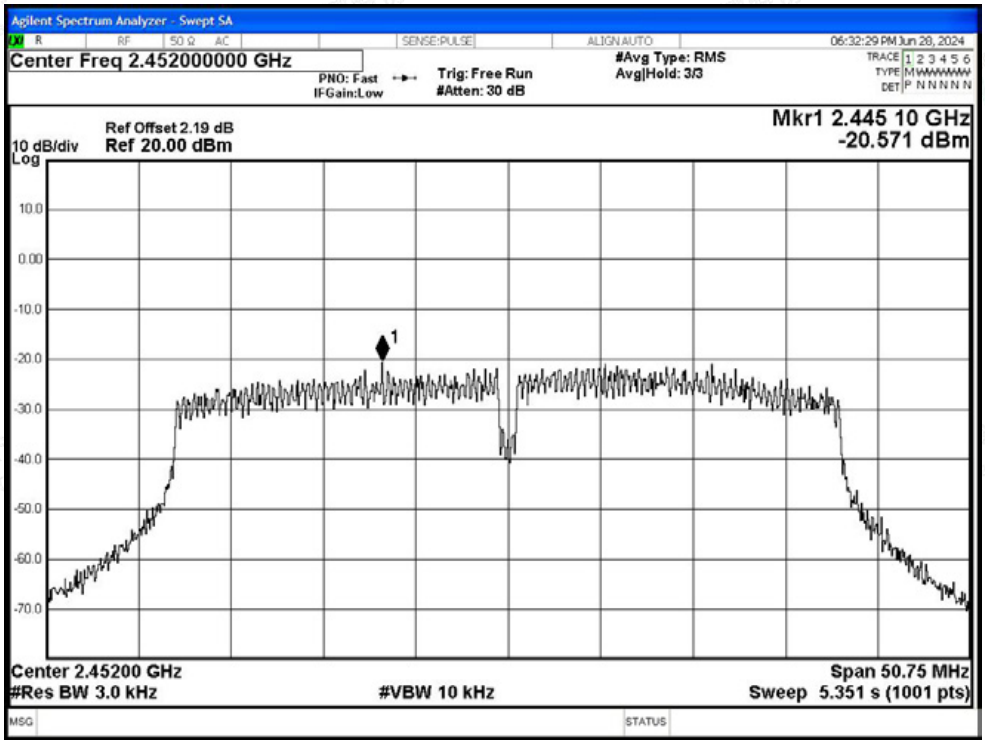
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1



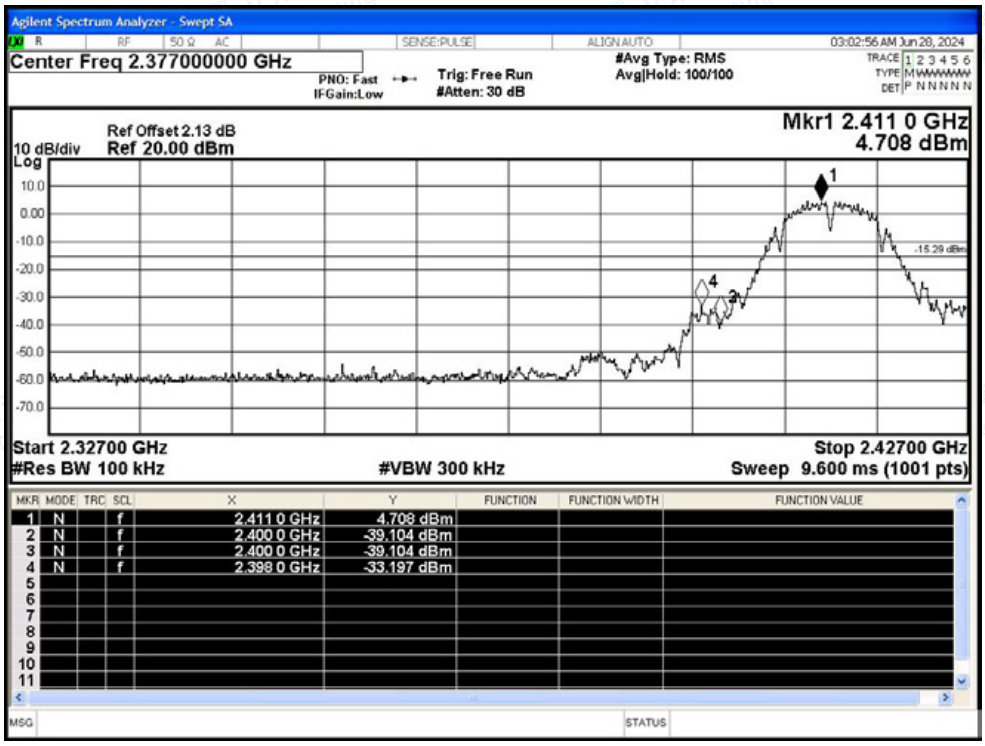
A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant0	-37.91	-20	Pass
NVNT	b	2462	Ant0	-50.65	-20	Pass
NVNT	g	2412	Ant0	-33.44	-20	Pass
NVNT	g	2462	Ant0	-46.81	-20	Pass
NVNT	n20	2412	Ant0	-30.08	-20	Pass
NVNT	n20	2462	Ant0	-43.12	-20	Pass
NVNT	n40	2422	Ant0	-35.2	-20	Pass
NVNT	n40	2452	Ant0	-38.24	-20	Pass

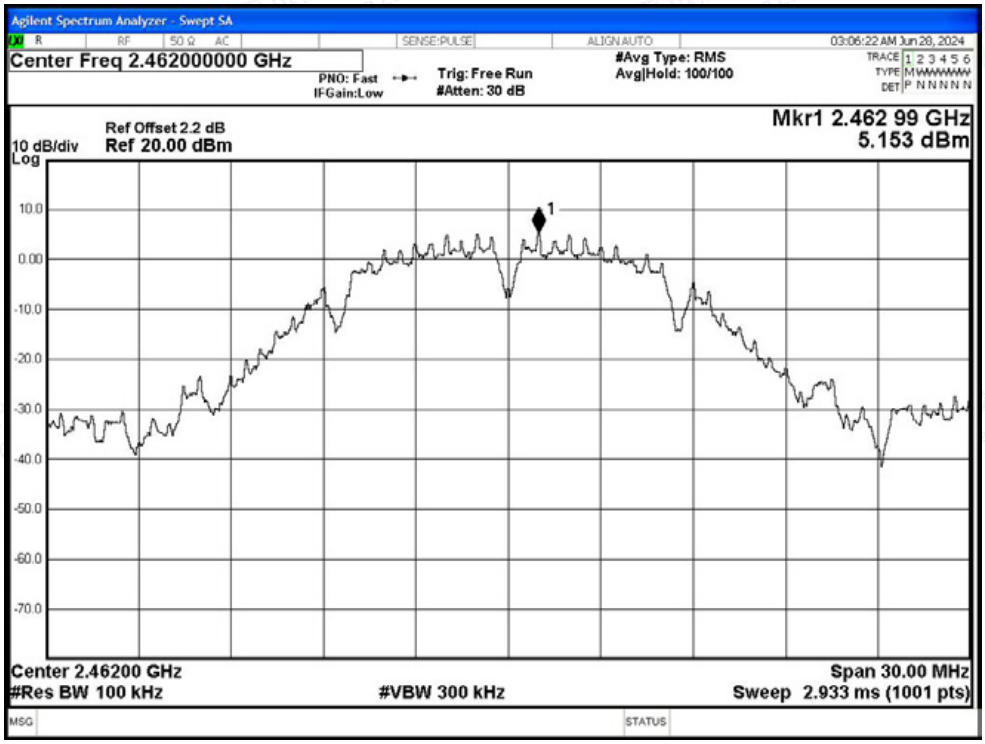
Test Graphs

Band Edge NVNT b 2412MHz Ant0 Ref

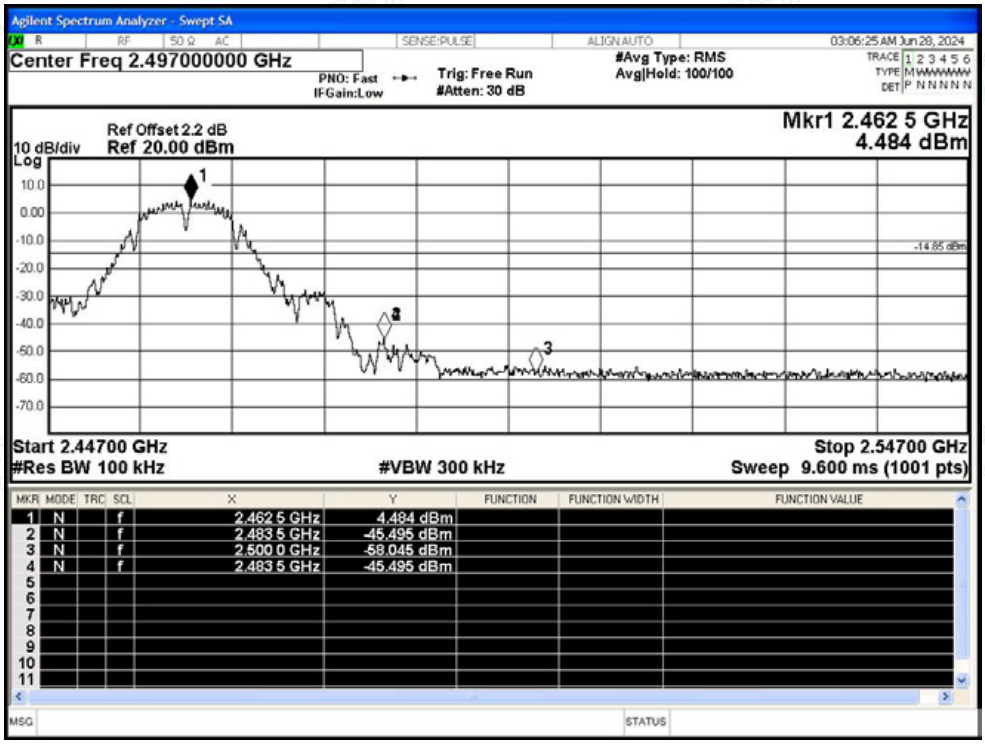
Band Edge NVNT b 2412MHz Ant0 Emission



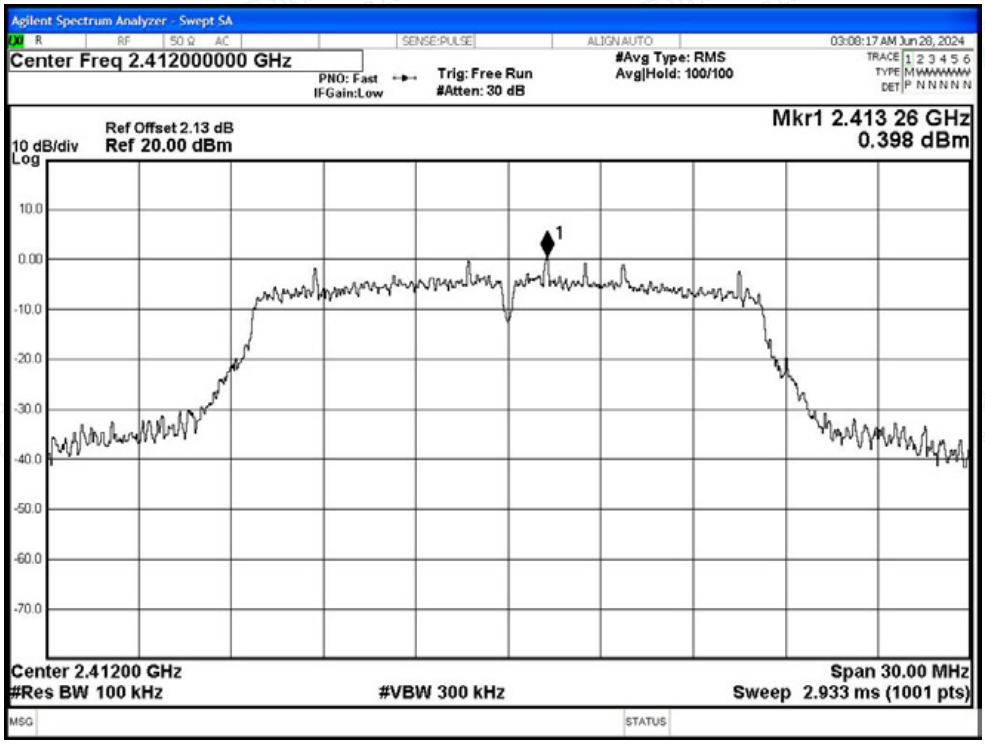
Band Edge NVNT b 2462MHz Ant0 Ref



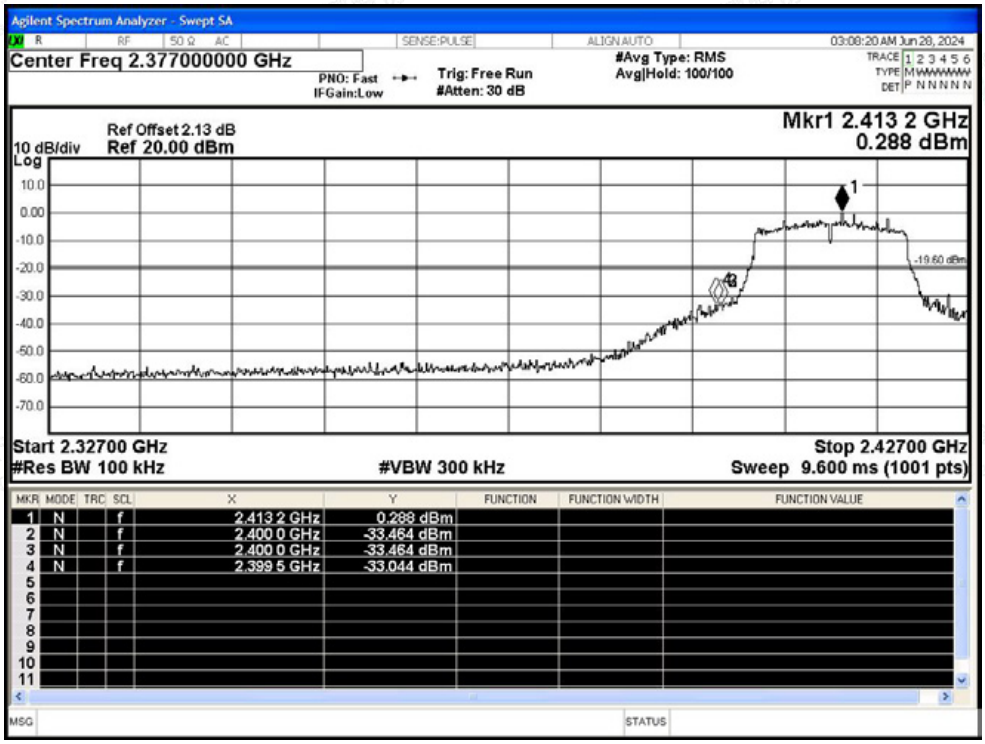
Band Edge NVNT b 2462MHz Ant0 Emission



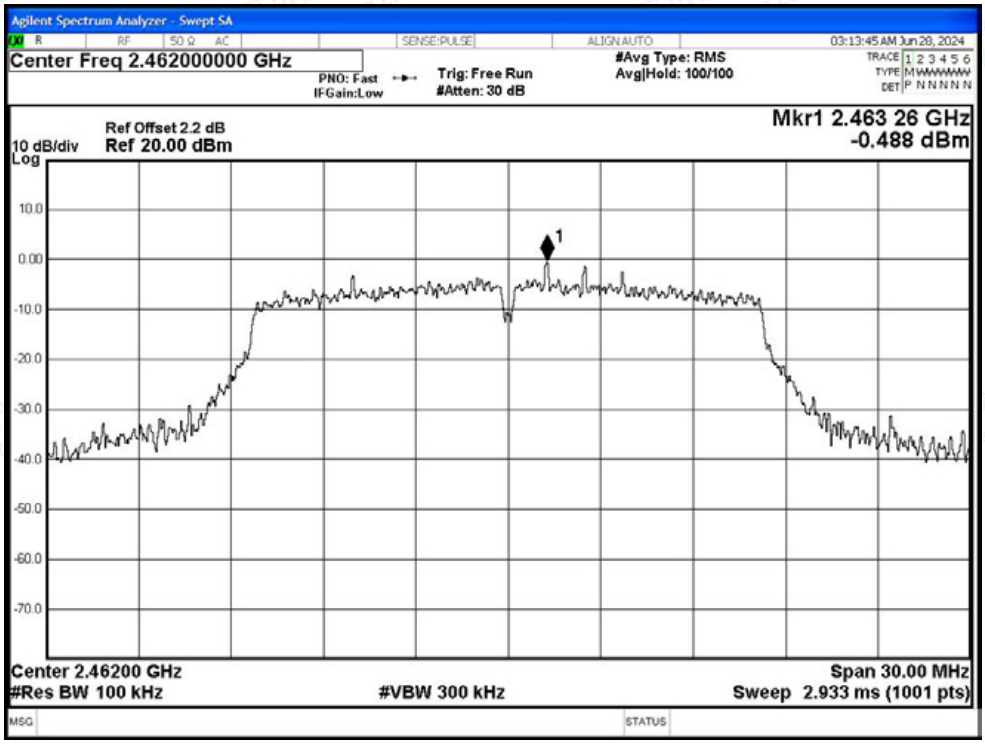
Band Edge NVNT g 2412MHz Ant0 Ref



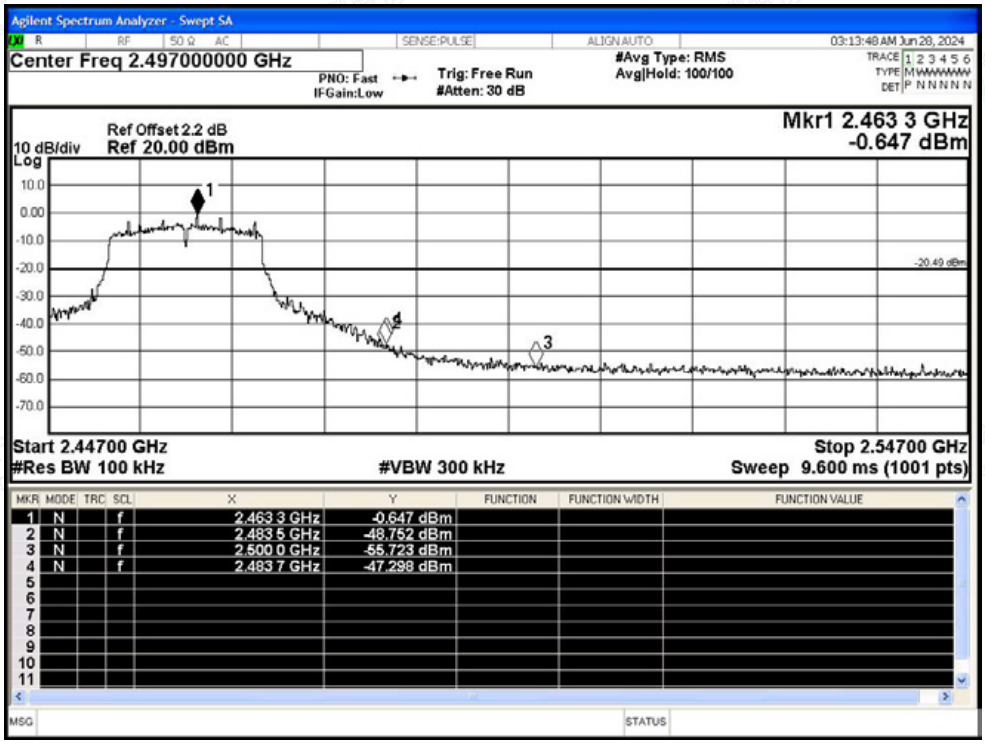
Band Edge NVNT g 2412MHz Ant0 Emission



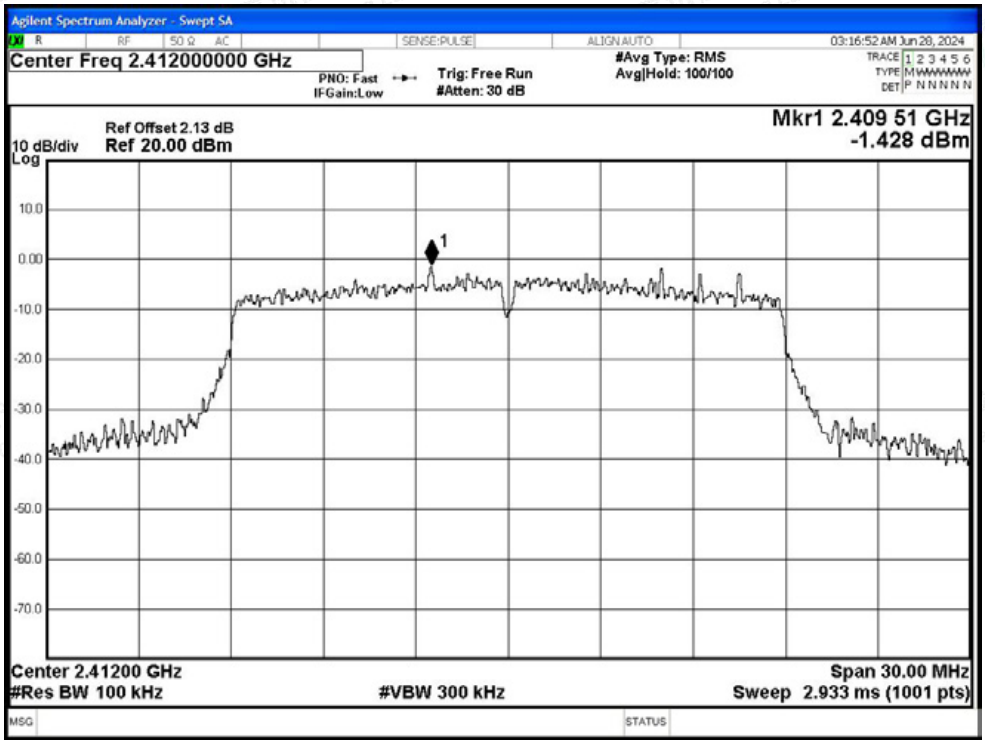
Band Edge NVNT g 2462MHz Ant0 Ref



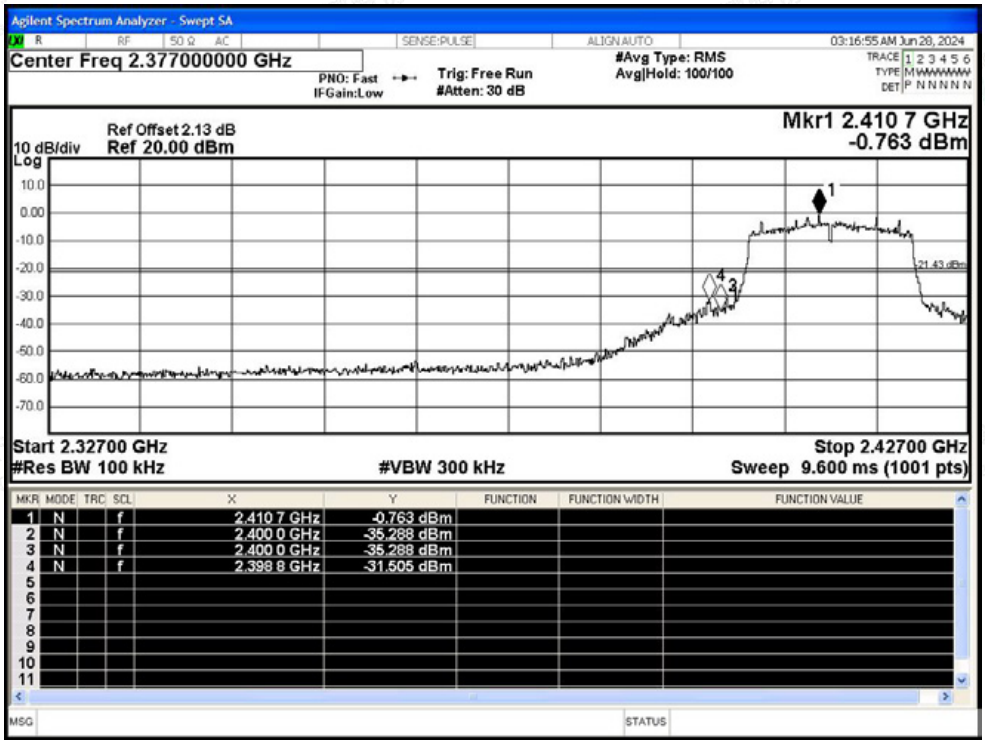
Band Edge NVNT g 2462MHz Ant0 Emission



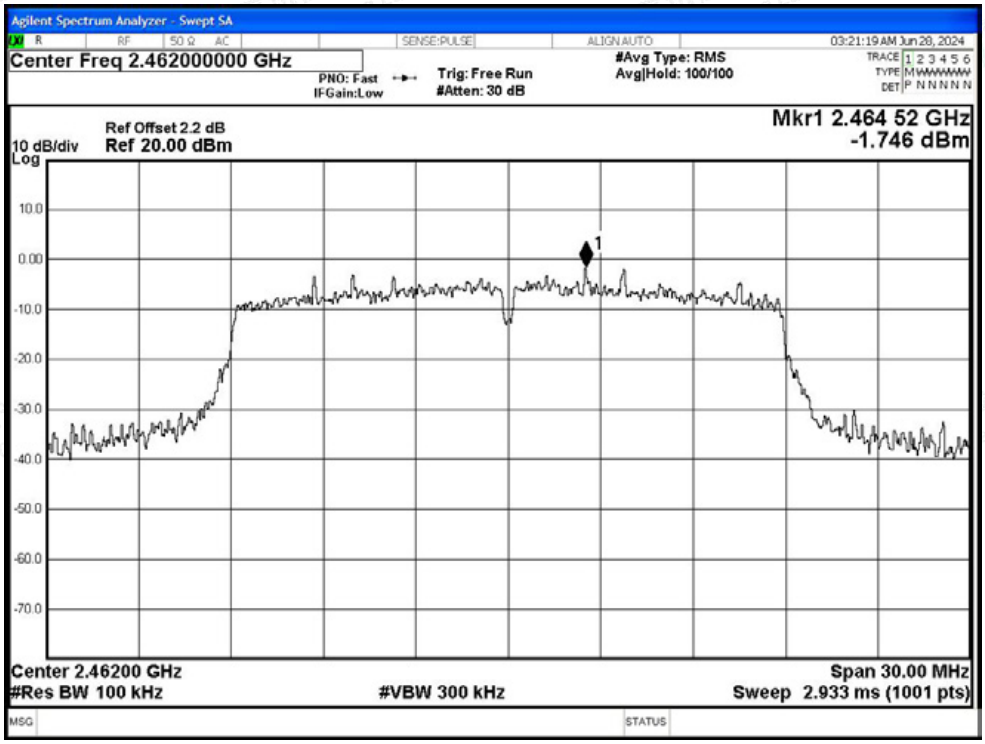
Band Edge NVNT n20 2412MHz Ant0 Ref



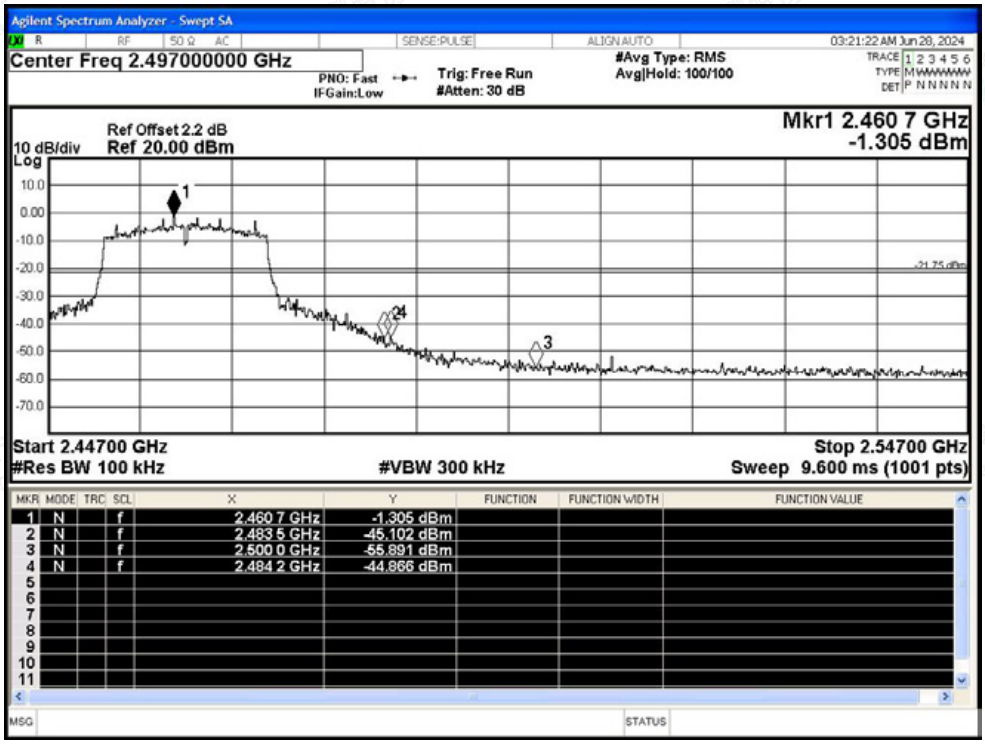
Band Edge NVNT n20 2412MHz Ant0 Emission



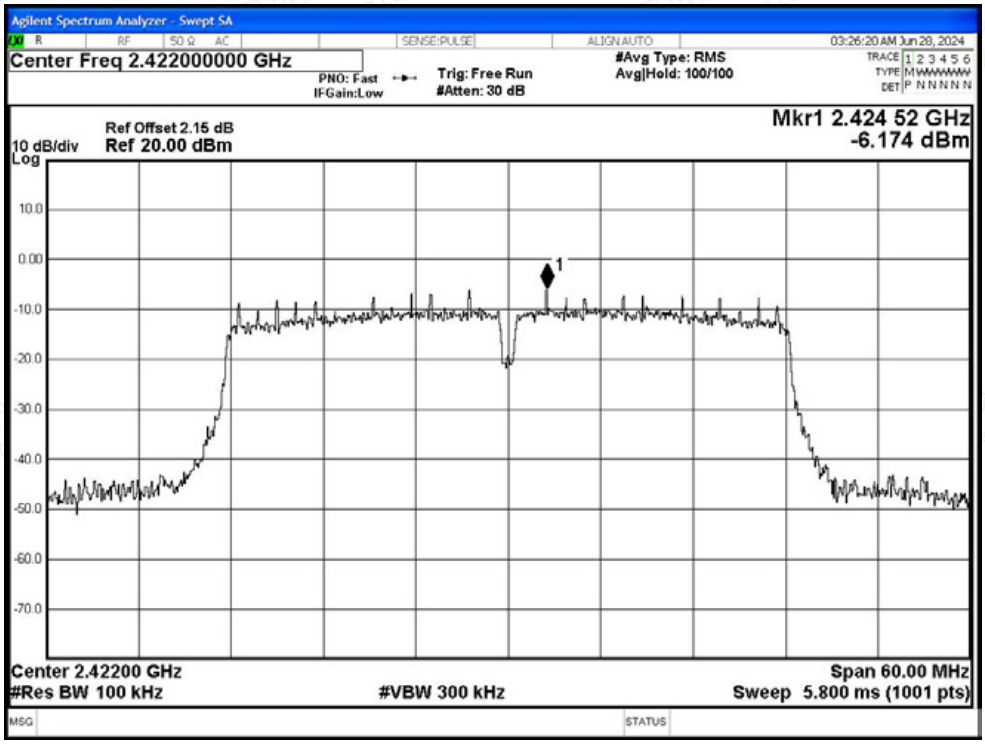
Band Edge NVNT n20 2462MHz Ant0 Ref



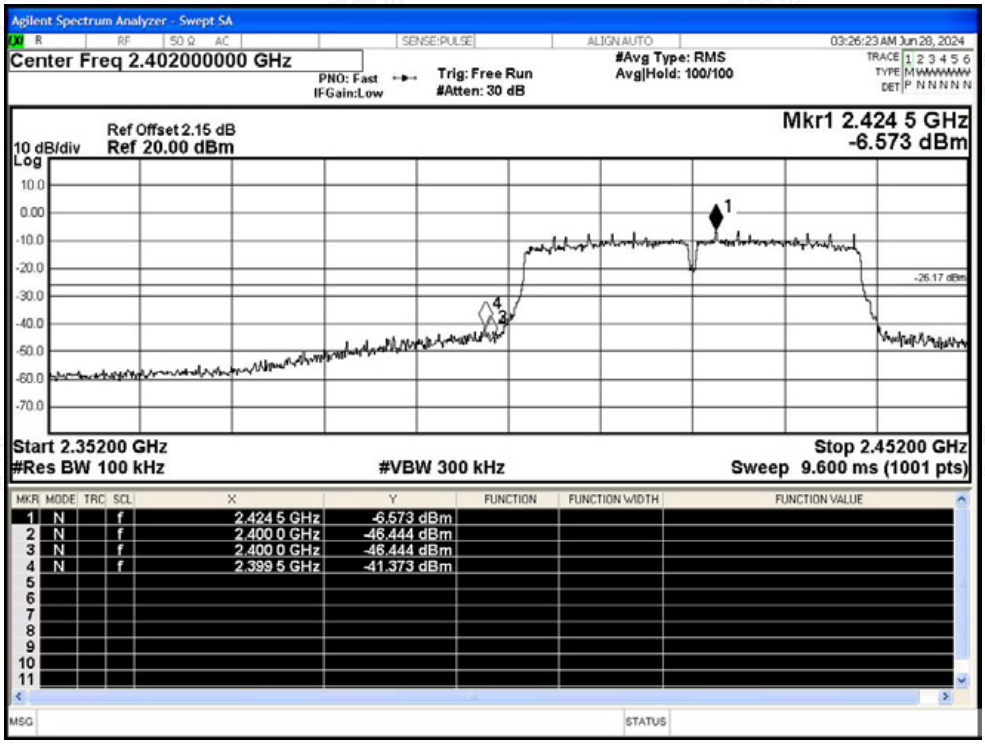
Band Edge NVNT n20 2462MHz Ant0 Emission



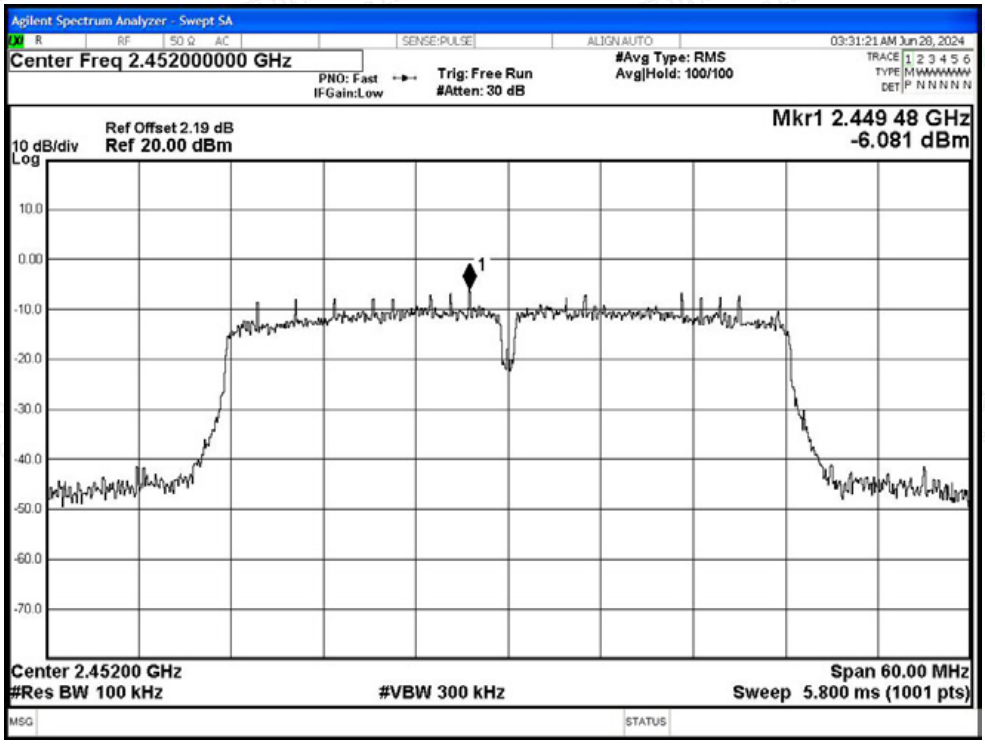
Band Edge NVNT n40 2422MHz Ant0 Ref



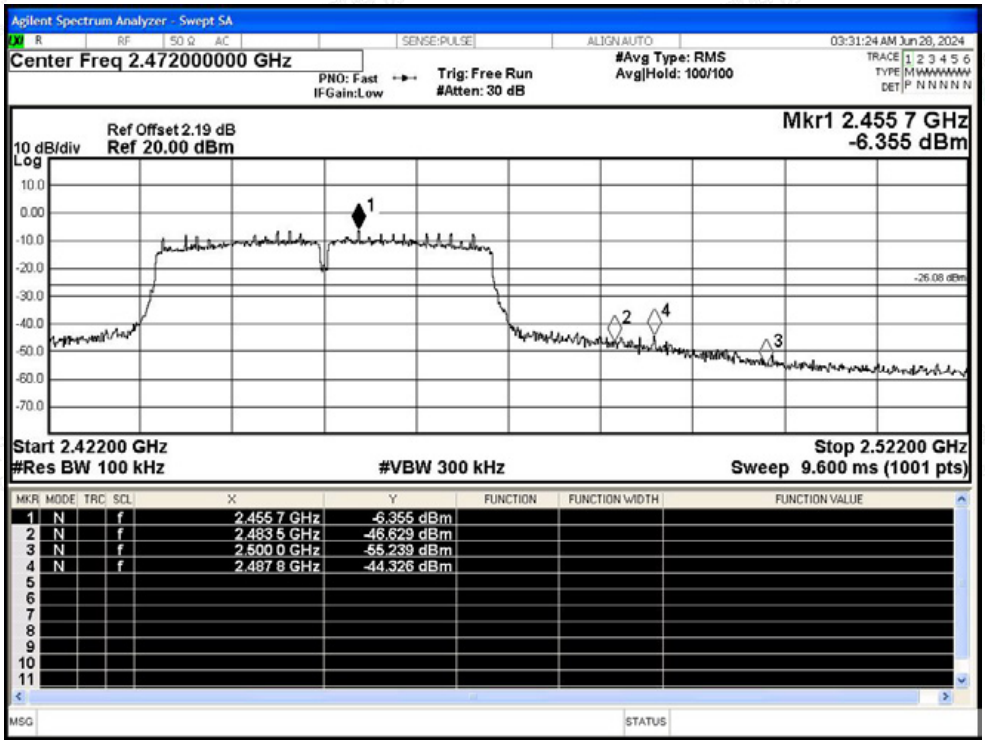
Band Edge NVNT n40 2422MHz Ant0 Emission



Band Edge NVNT n40 2452MHz Ant0 Ref



Band Edge NVNT n40 2452MHz Ant0 Emission



Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-43.26	-20	Pass
NVNT	b	2462	Ant1	-53.78	-20	Pass
NVNT	g	2412	Ant1	-30.15	-20	Pass
NVNT	g	2462	Ant1	-44.59	-20	Pass
NVNT	n20	2412	Ant1	-39.84	-20	Pass
NVNT	n20	2462	Ant1	-52.09	-20	Pass
NVNT	n40	2422	Ant1	-38.75	-20	Pass
NVNT	n40	2452	Ant1	-49.44	-20	Pass