



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Cordless Wi-Fi Phone

Test Model: UCW10

Environmental Conditions

Temperature:	24.8° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun



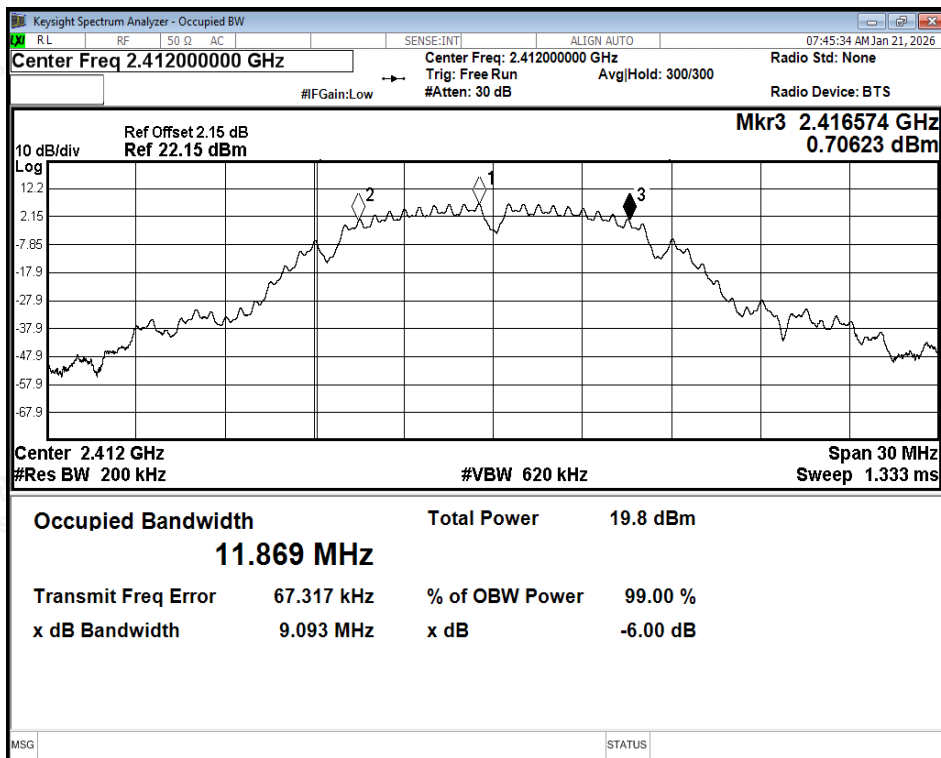


C.1 -6dB Bandwidth

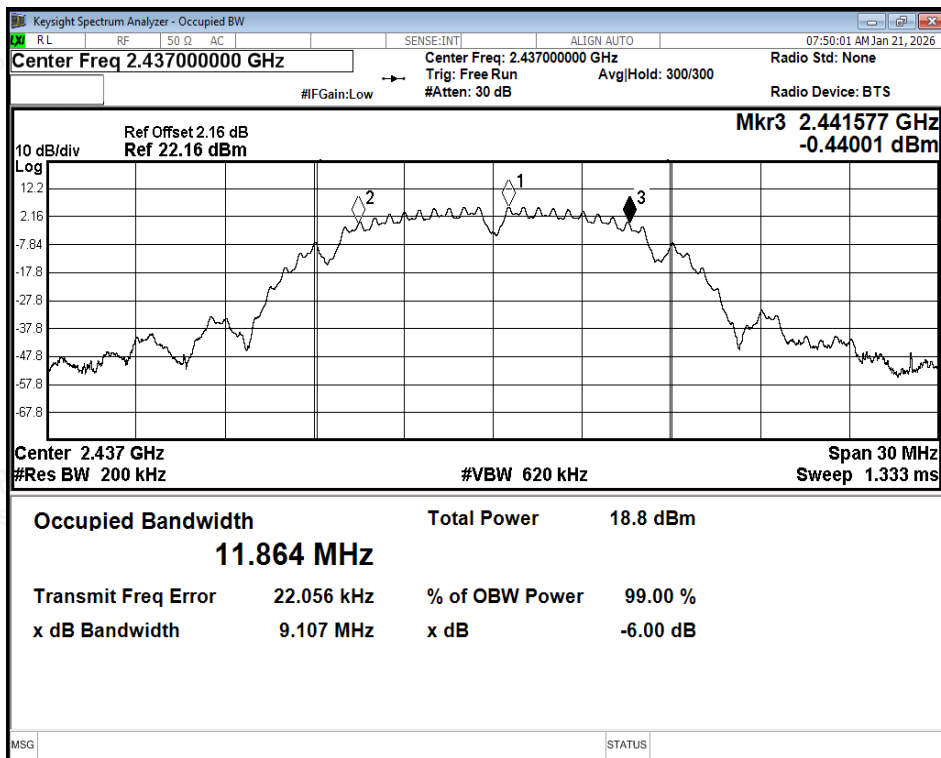
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.093	0.5	Pass
NVNT	b	2437	Ant1	9.107	0.5	Pass
NVNT	b	2462	Ant1	9.112	0.5	Pass
NVNT	g	2412	Ant1	16.29	0.5	Pass
NVNT	g	2437	Ant1	16.34	0.5	Pass
NVNT	g	2462	Ant1	16.37	0.5	Pass
NVNT	n20	2412	Ant1	17.3	0.5	Pass
NVNT	n20	2437	Ant1	17.28	0.5	Pass
NVNT	n20	2462	Ant1	17.53	0.5	Pass
NVNT	n40	2422	Ant1	35.8	0.5	Pass
NVNT	n40	2437	Ant1	35.62	0.5	Pass
NVNT	n40	2452	Ant1	35.9	0.5	Pass
NVNT	ax20	2412	Ant1	17.28	0.5	Pass
NVNT	ax20	2437	Ant1	17.18	0.5	Pass
NVNT	ax20	2462	Ant1	17.43	0.5	Pass
NVNT	ax40	2422	Ant1	35.93	0.5	Pass
NVNT	ax40	2437	Ant1	35.95	0.5	Pass
NVNT	ax40	2452	Ant1	36.18	0.5	Pass

Note: offset=System attenuation +cabel loss



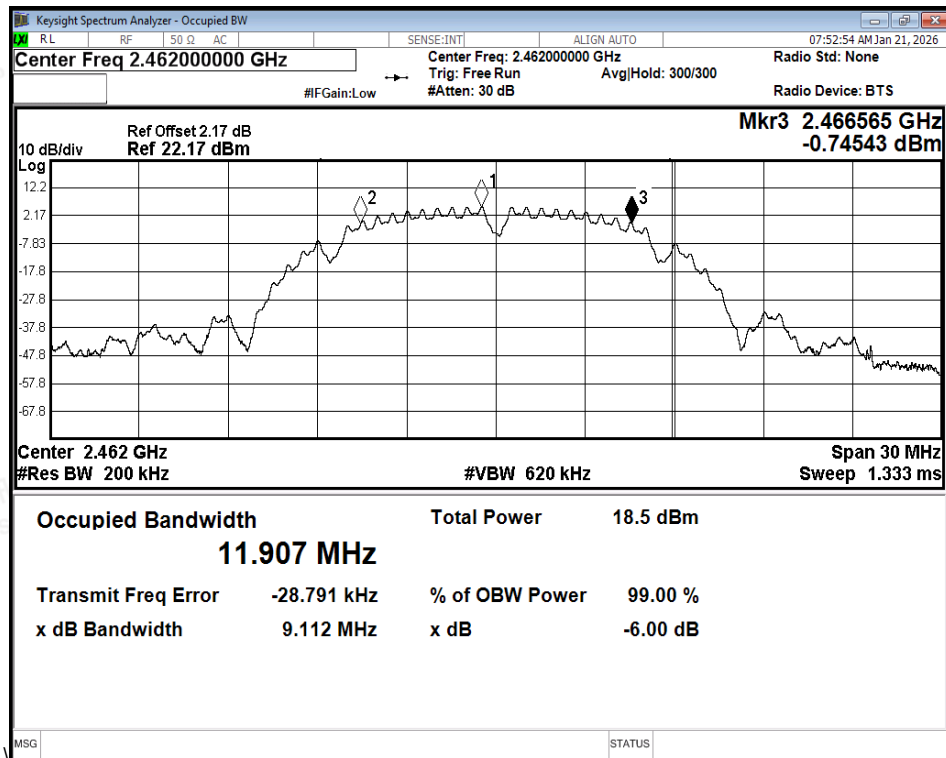


-6dB Bandwidth NVNT b 2412MHz Ant1

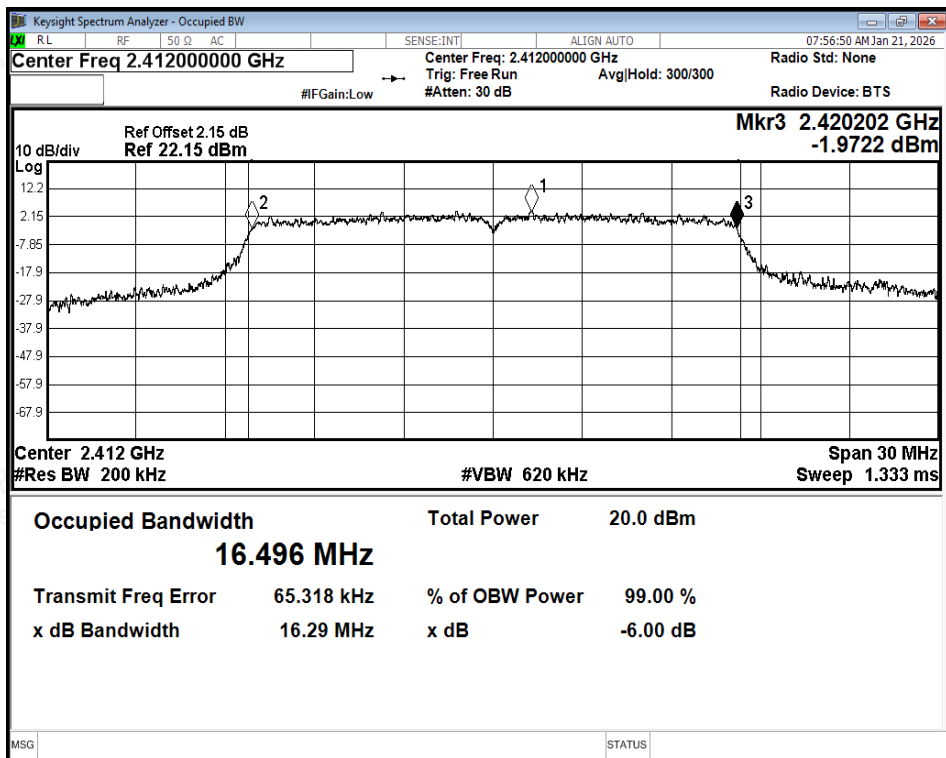


-6dB Bandwidth NVNT b 2437MHz Ant1



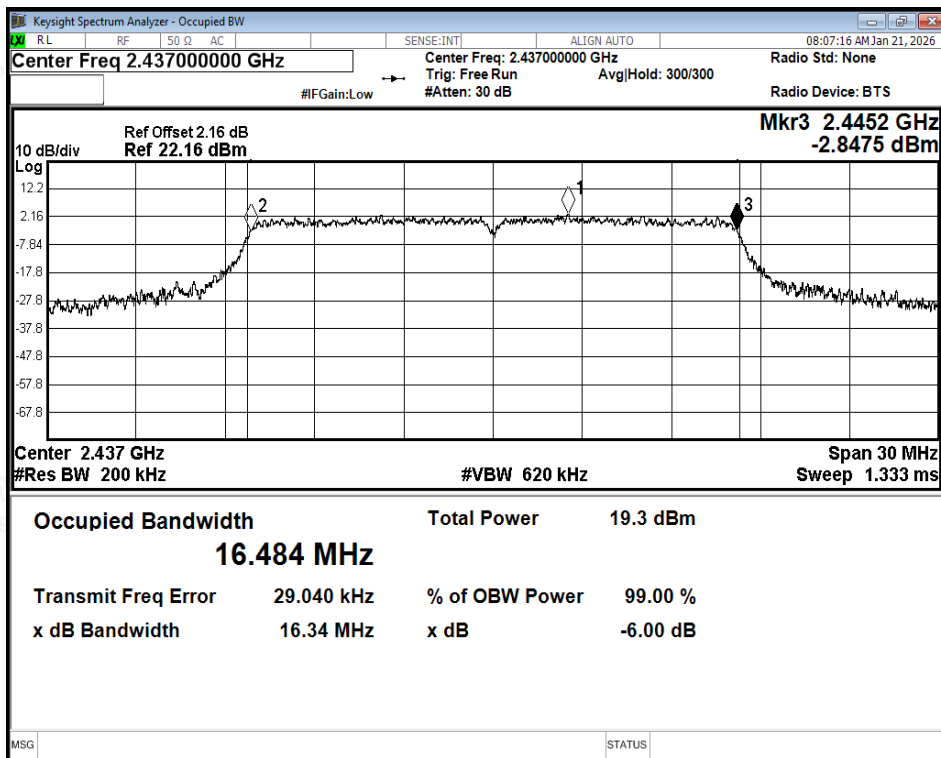


-6dB Bandwidth NVNT b 2462MHz Ant1

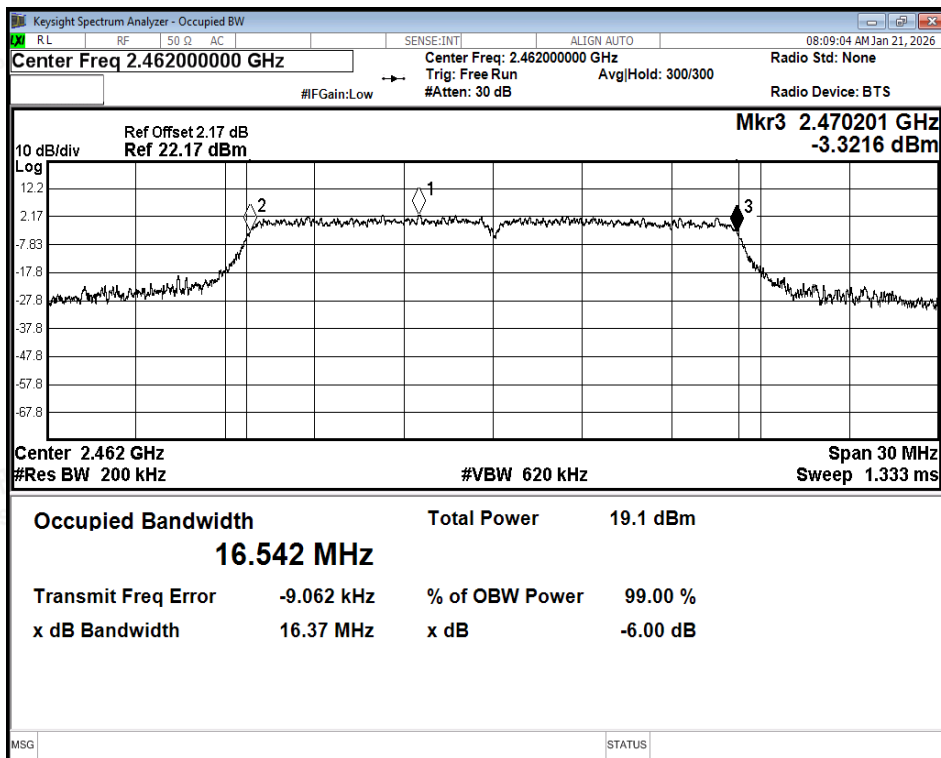


-6dB Bandwidth NVNT g 2412MHz Ant1



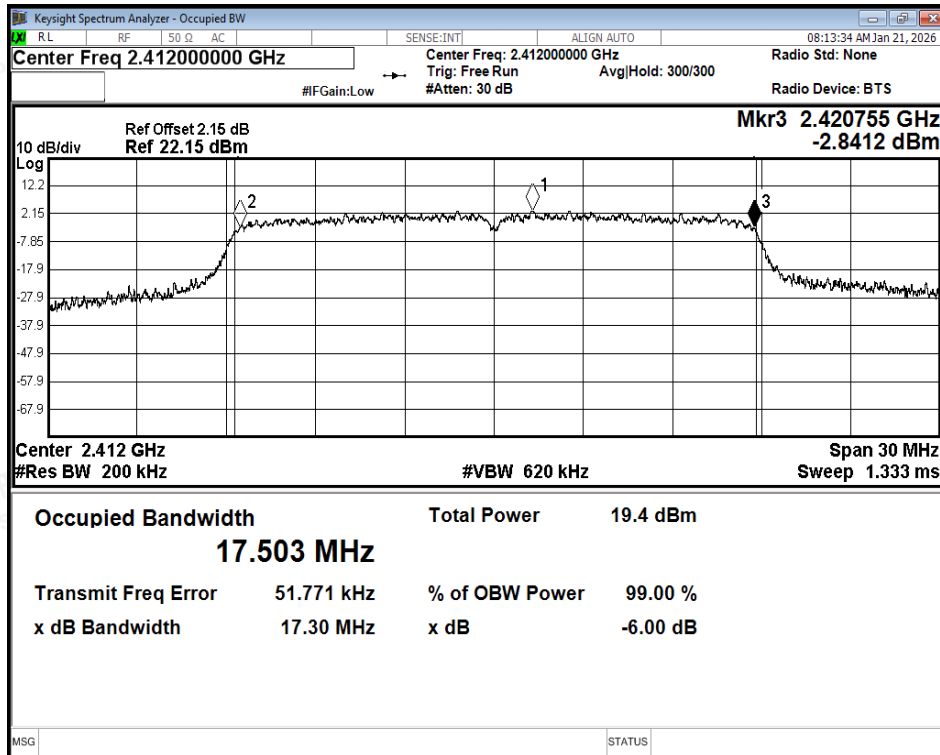


-6dB Bandwidth NVNT g 2437MHz Ant1

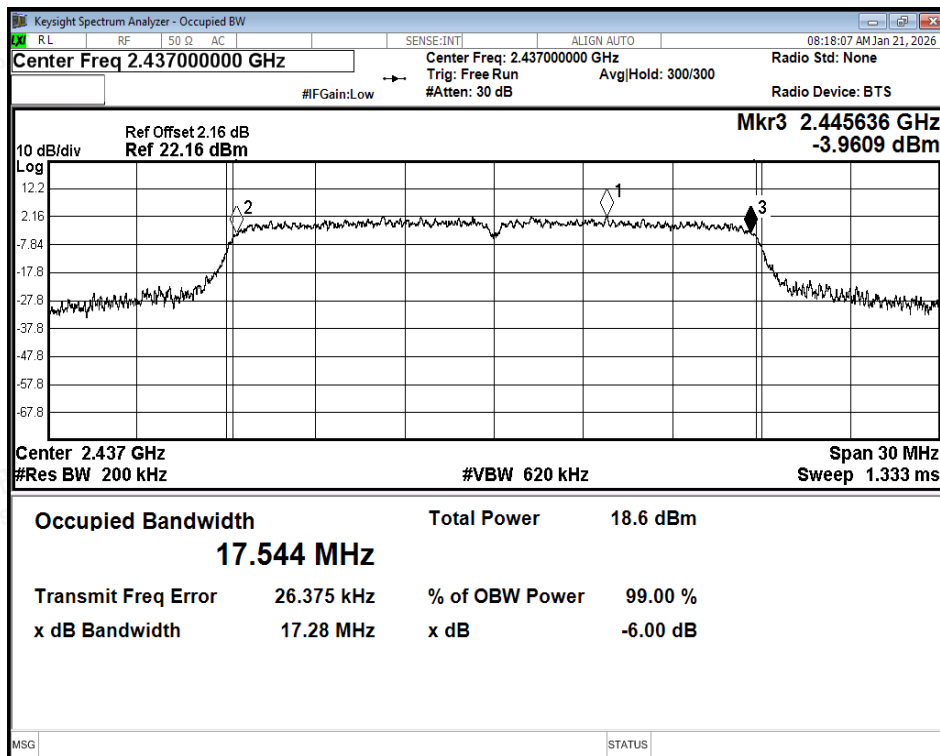


-6dB Bandwidth NVNT g 2462MHz Ant1



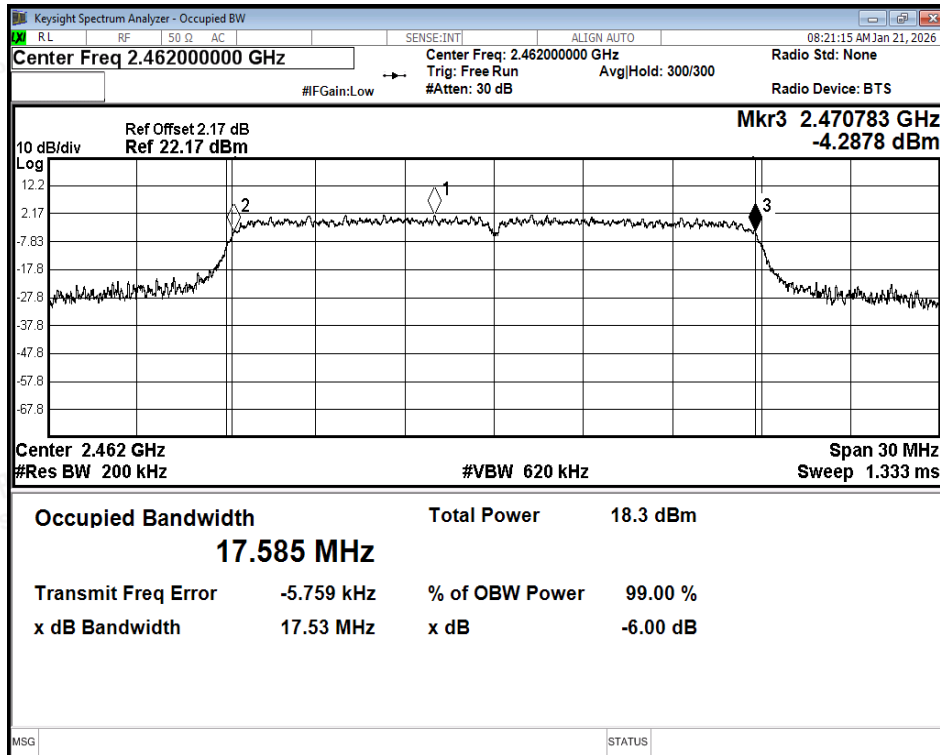


-6dB Bandwidth NVNT n20 2412MHz Ant1

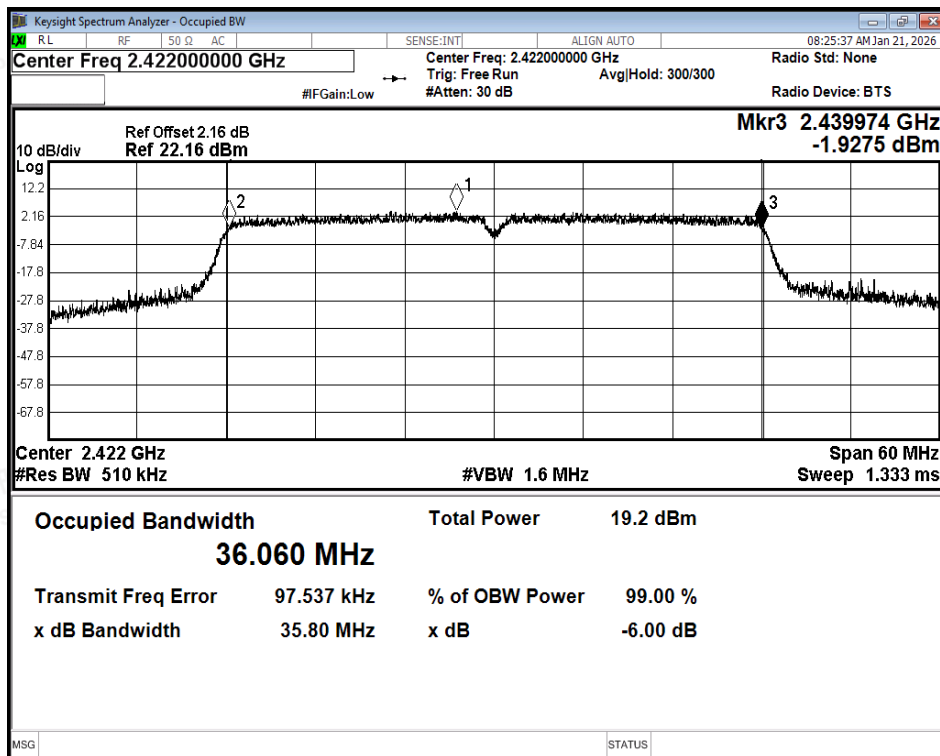


-6dB Bandwidth NVNT n20 2437MHz Ant1



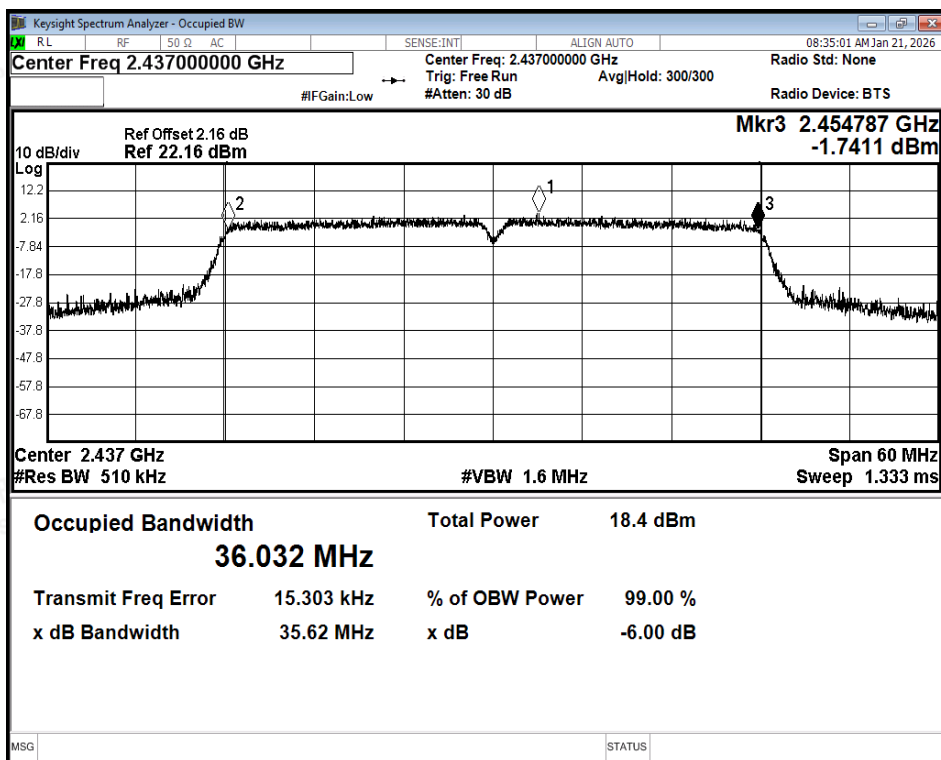


-6dB Bandwidth NVNT n20 2462MHz Ant1

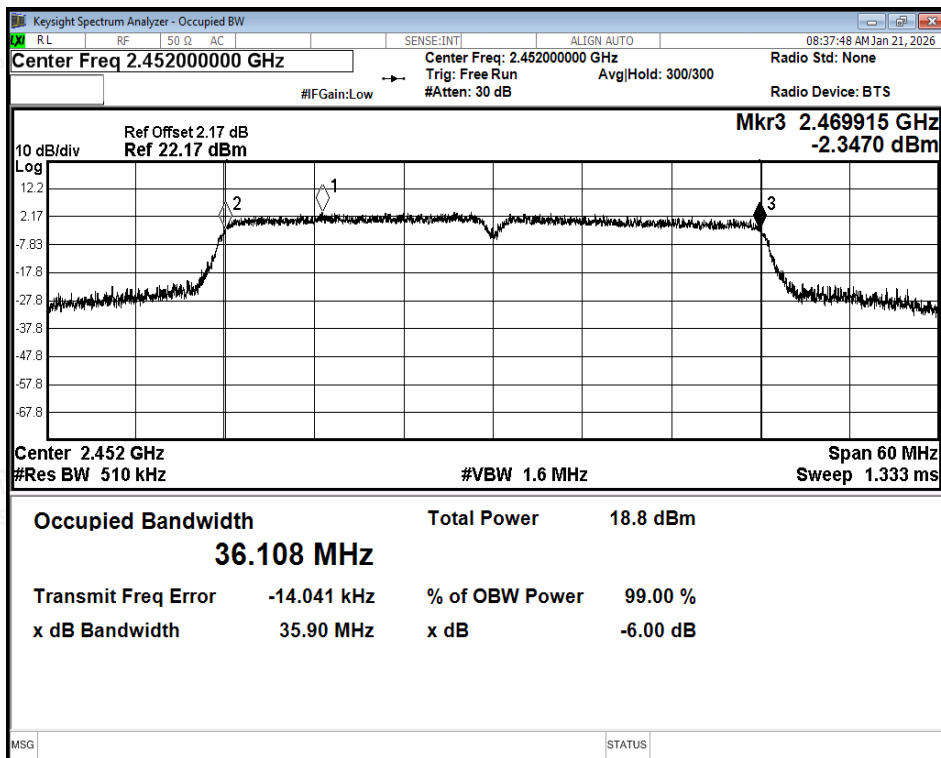


-6dB Bandwidth NVNT n40 2422MHz Ant1



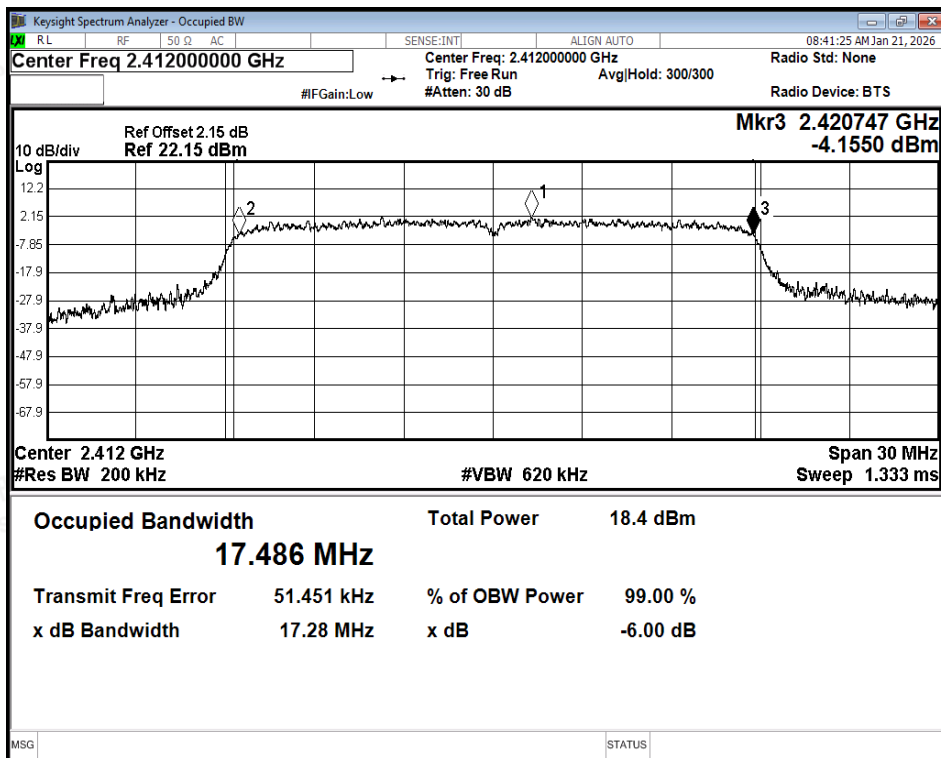


-6dB Bandwidth NVNT n40 2437MHz Ant1

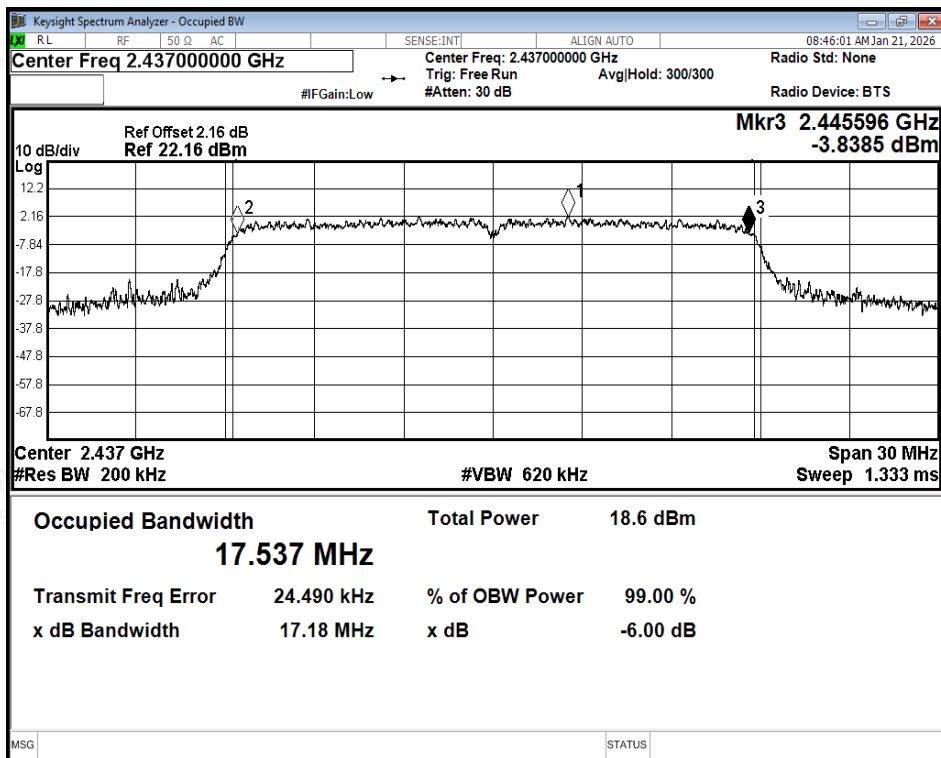


-6dB Bandwidth NVNT n40 2452MHz Ant1



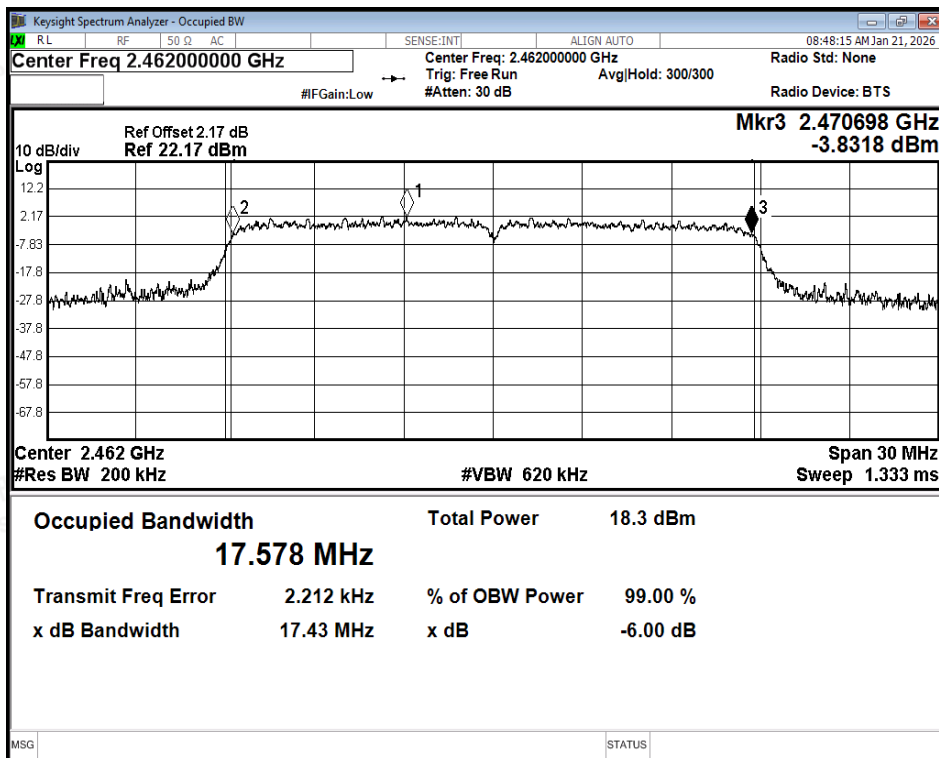


-6dB Bandwidth NVNT ax20 2412MHz Ant1

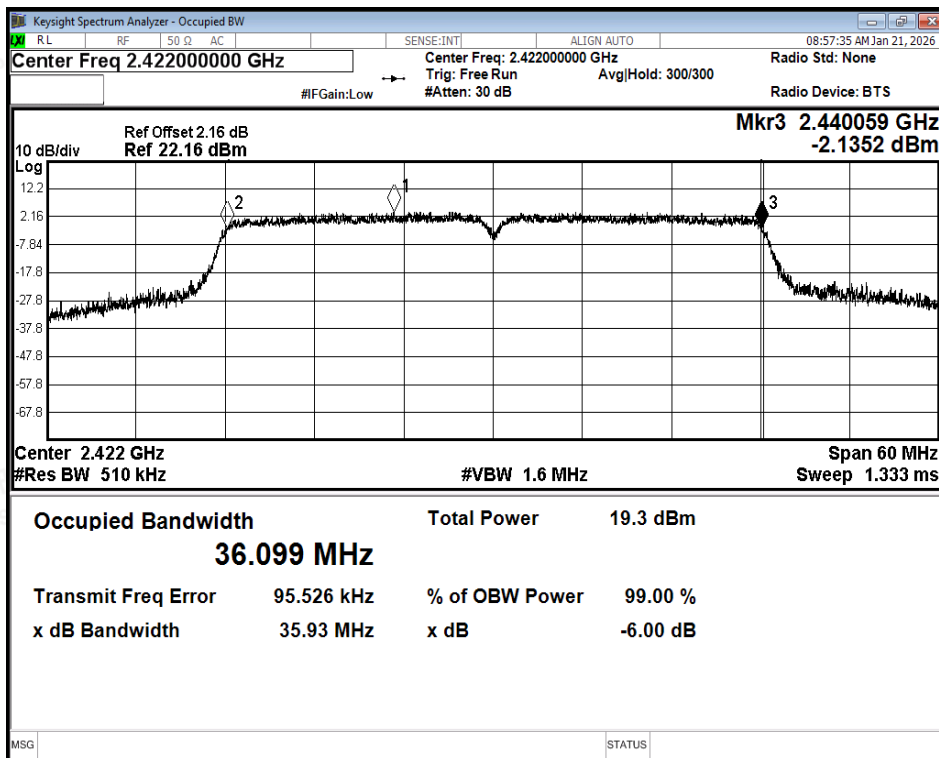


-6dB Bandwidth NVNT ax20 2437MHz Ant1



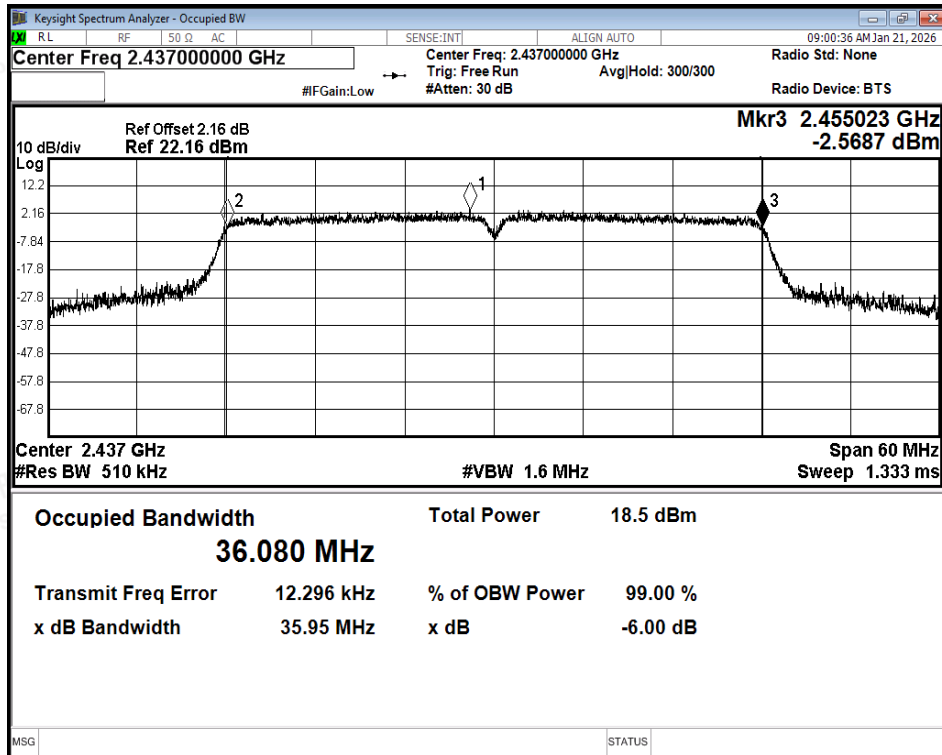


-6dB Bandwidth NVNT ax20 2462MHz Ant1

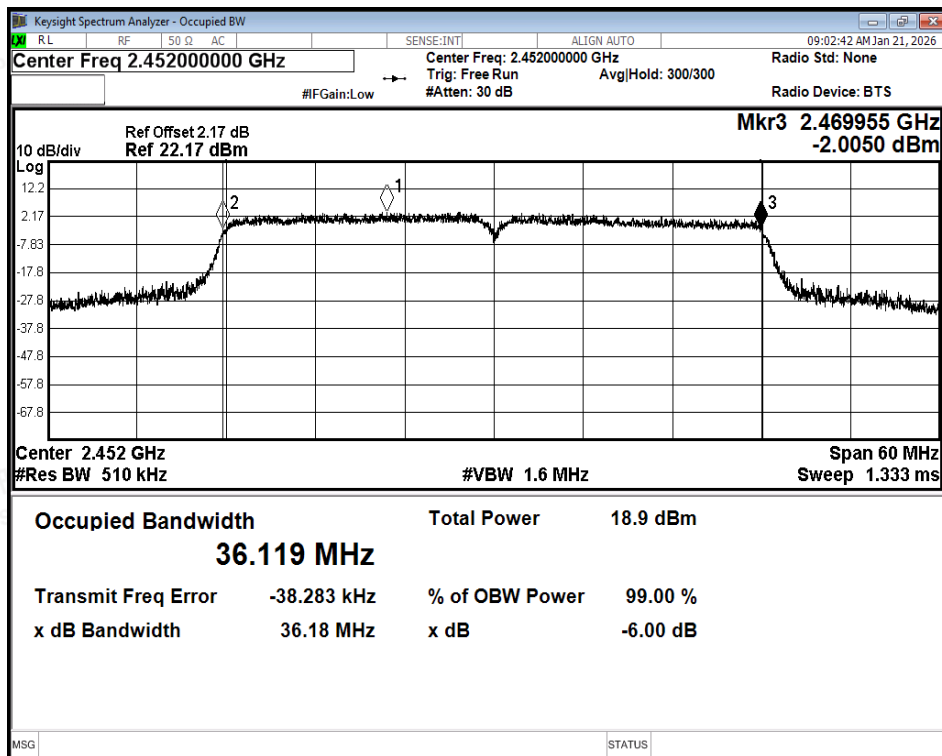


-6dB Bandwidth NVNT ax40 2422MHz Ant1





-6dB Bandwidth NVNT ax40 2437MHz Ant1



-6dB Bandwidth NVNT ax40 2452MHz Ant1





C.2 Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	b	2412	Ant1	14.96	0.01	14.97	30	Pass
NVNT	b	2437	Ant1	13.9	0.01	13.91	30	Pass
NVNT	b	2462	Ant1	13.54	0.01	13.55	30	Pass
NVNT	g	2412	Ant1	13.75	0.1	13.85	30	Pass
NVNT	g	2437	Ant1	13.06	0.1	13.16	30	Pass
NVNT	g	2462	Ant1	12.8	0.1	12.9	30	Pass
NVNT	n20	2412	Ant1	13.15	0.12	13.27	30	Pass
NVNT	n20	2437	Ant1	12.38	0.12	12.5	30	Pass
NVNT	n20	2462	Ant1	12.09	0.12	12.21	30	Pass
NVNT	n40	2422	Ant1	12.36	0.24	12.6	30	Pass
NVNT	n40	2437	Ant1	11.48	0.24	11.72	30	Pass
NVNT	n40	2452	Ant1	11.94	0.24	12.18	30	Pass
NVNT	ax20	2412	Ant1	12.22	0.12	12.34	30	Pass
NVNT	ax20	2437	Ant1	12.35	0.12	12.47	30	Pass
NVNT	ax20	2462	Ant1	12.12	0.12	12.24	30	Pass
NVNT	ax40	2422	Ant1	12.46	0.24	12.7	30	Pass
NVNT	ax40	2437	Ant1	11.6	0.24	11.84	30	Pass
NVNT	ax40	2452	Ant1	12.03	0.24	12.27	30	Pass

Note: offset=System attenuation +cabal loss



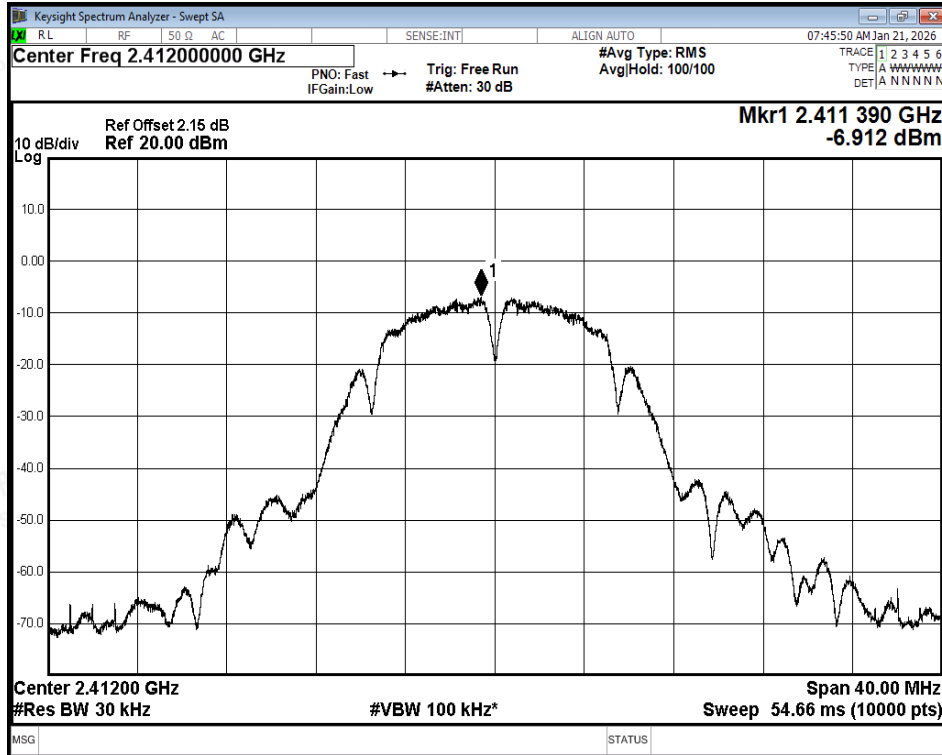


C.3 Maximum Power Spectral Density Level

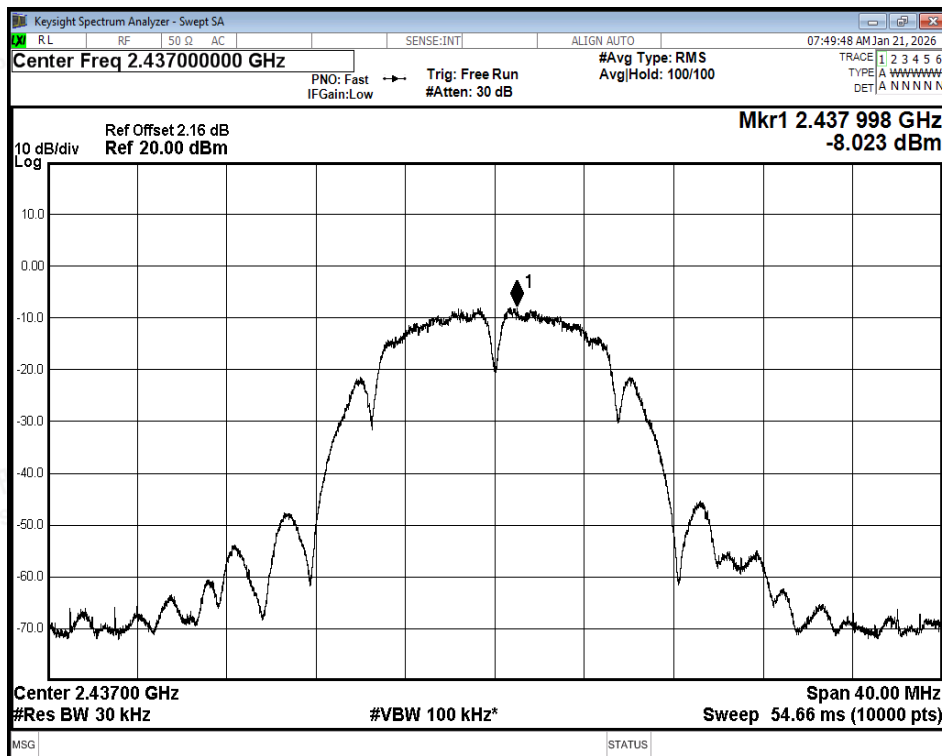
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/30kHz)	Duty Factor (dB)	Total PSD (dBm/30kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-16.91	0.01	-16.9	8	Pass
NVNT	b	2437	Ant1	-18.02	0.01	-18.01	8	Pass
NVNT	b	2462	Ant1	-17.87	0.01	-17.86	8	Pass
NVNT	g	2412	Ant1	-20.22	0.1	-20.12	8	Pass
NVNT	g	2437	Ant1	-21.49	0.1	-21.39	8	Pass
NVNT	g	2462	Ant1	-21.43	0.1	-21.33	8	Pass
NVNT	n20	2412	Ant1	-21.67	0.12	-21.55	8	Pass
NVNT	n20	2437	Ant1	-22.4	0.12	-22.28	8	Pass
NVNT	n20	2462	Ant1	-22.84	0.12	-22.72	8	Pass
NVNT	n40	2422	Ant1	-25.43	0.24	-25.19	8	Pass
NVNT	n40	2437	Ant1	-26.27	0.24	-26.03	8	Pass
NVNT	n40	2452	Ant1	-25.3	0.24	-25.06	8	Pass
NVNT	ax20	2412	Ant1	-22.61	0.12	-22.49	8	Pass
NVNT	ax20	2437	Ant1	-22.72	0.12	-22.6	8	Pass
NVNT	ax20	2462	Ant1	-22.64	0.12	-22.52	8	Pass
NVNT	ax40	2422	Ant1	-25.66	0.24	-25.42	8	Pass
NVNT	ax40	2437	Ant1	-25.76	0.24	-25.52	8	Pass
NVNT	ax40	2452	Ant1	-25.72	0.24	-25.48	8	Pass

Note: offset=System attenuation +cable loss



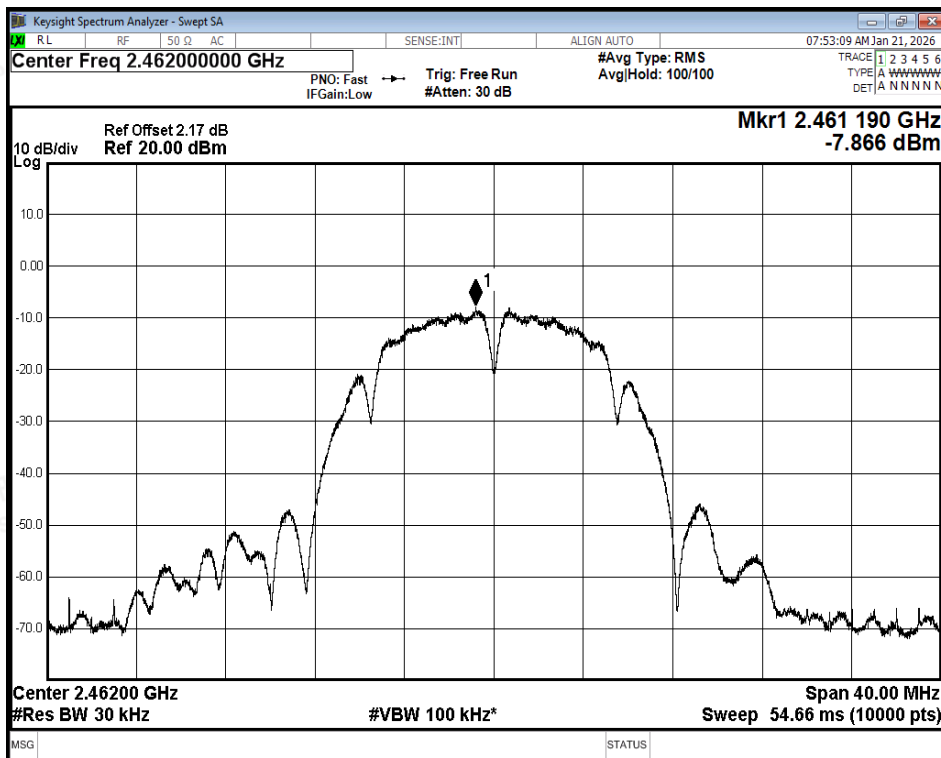


PSD NVNT b 2412MHz Ant1

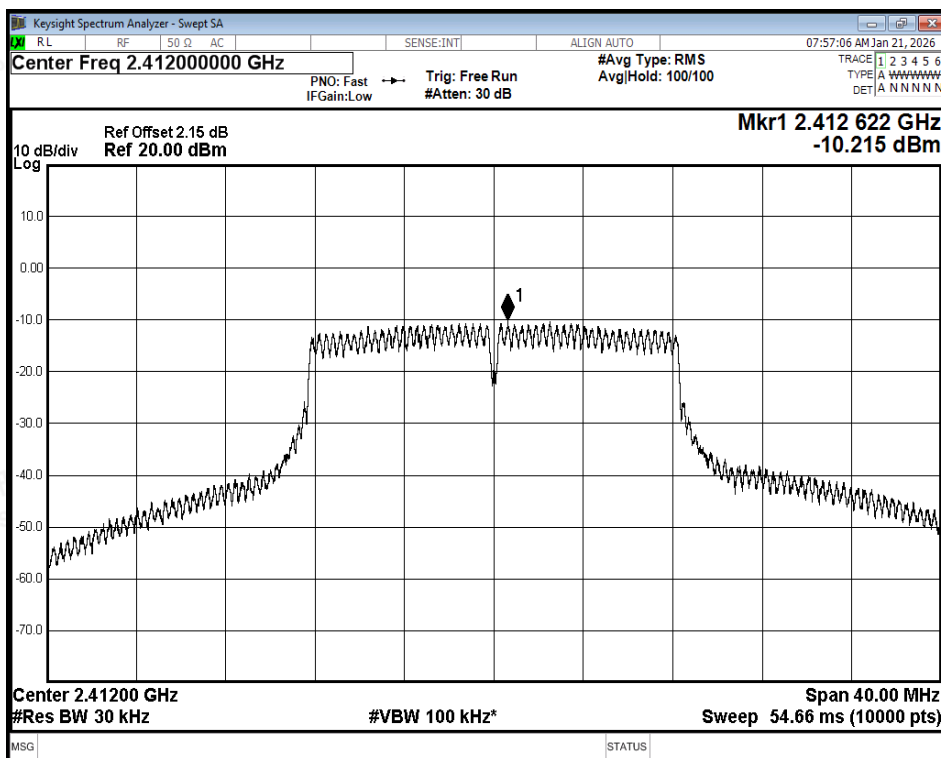


PSD NVNT b 2437MHz Ant1



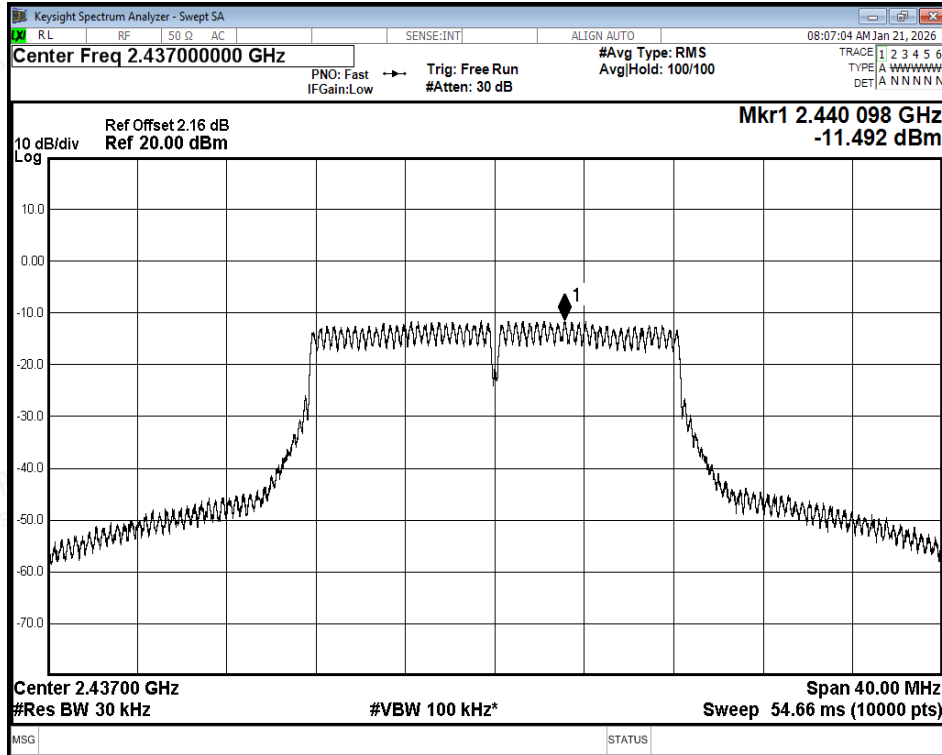


PSD NVNT b 2462MHz Ant1

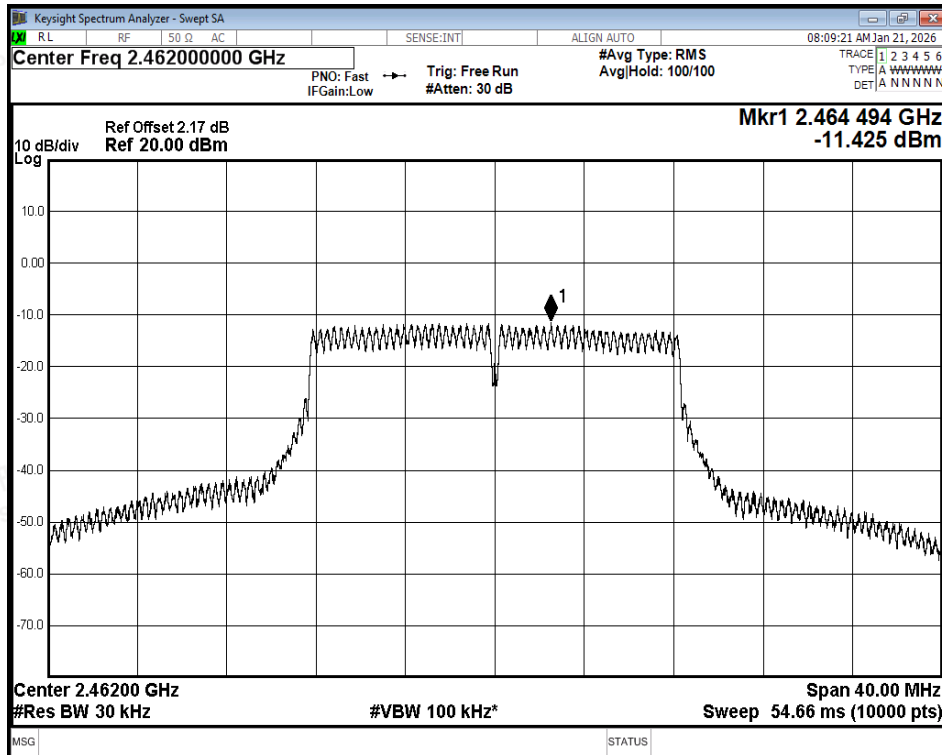


PSD NVNT g 2412MHz Ant1



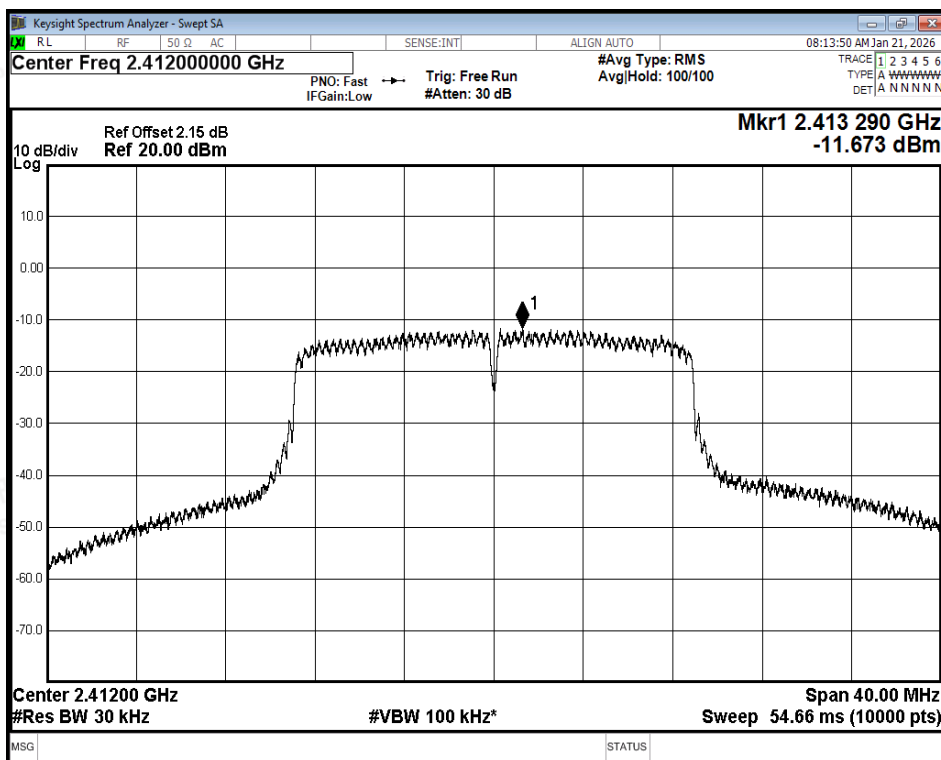


PSD NVNT g 2437MHz Ant1

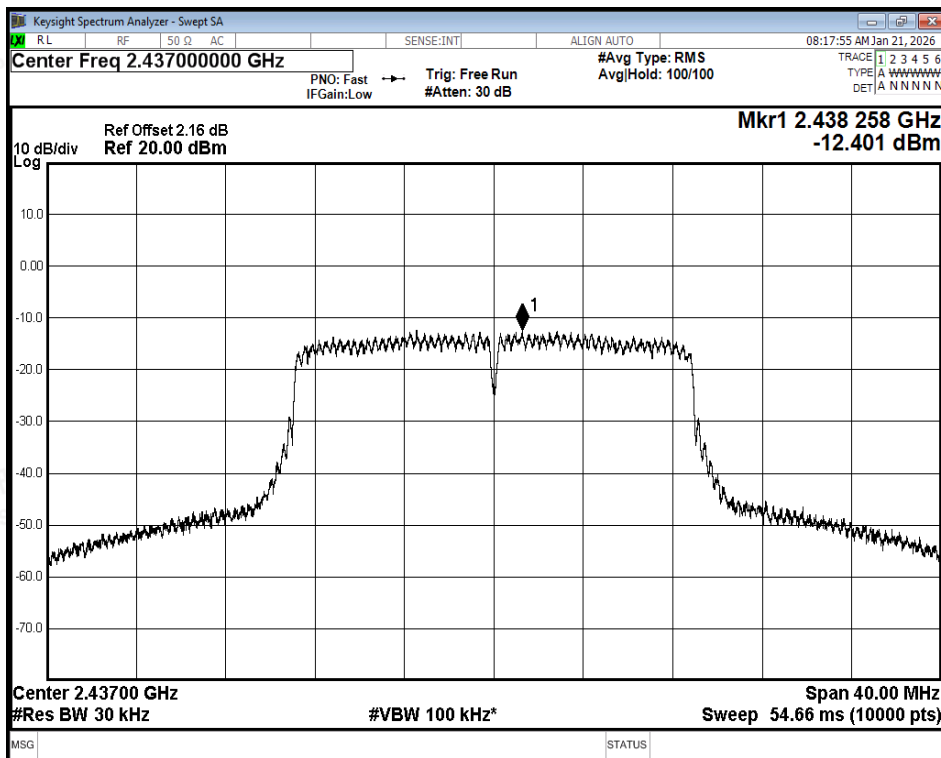


PSD NVNT g 2462MHz Ant1



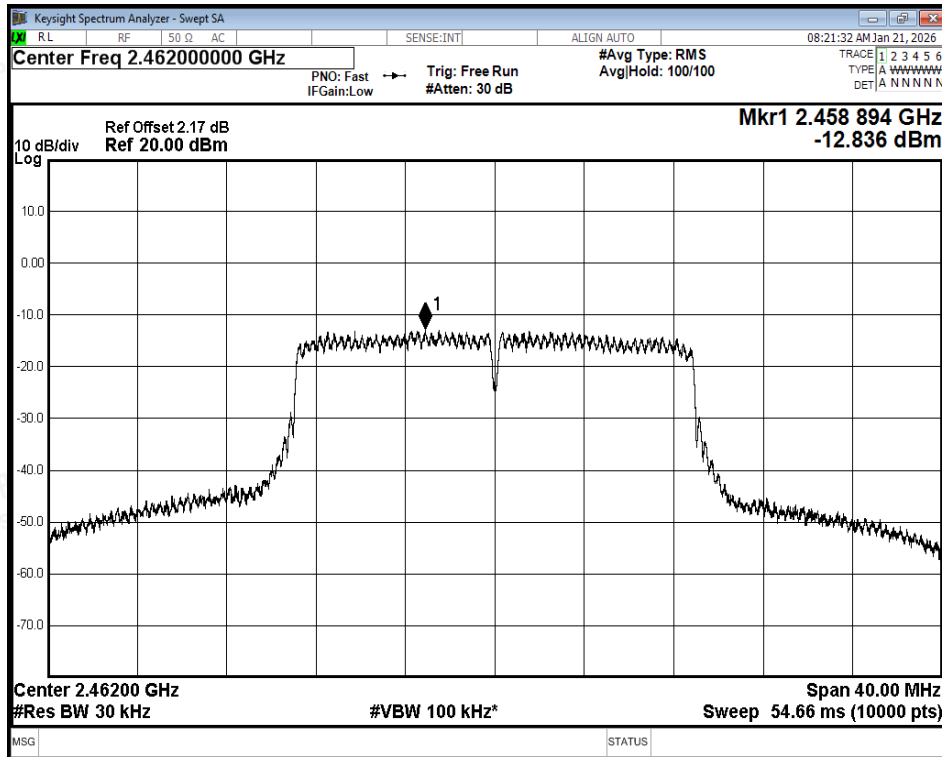


PSD NVNT n20 2412MHz Ant1

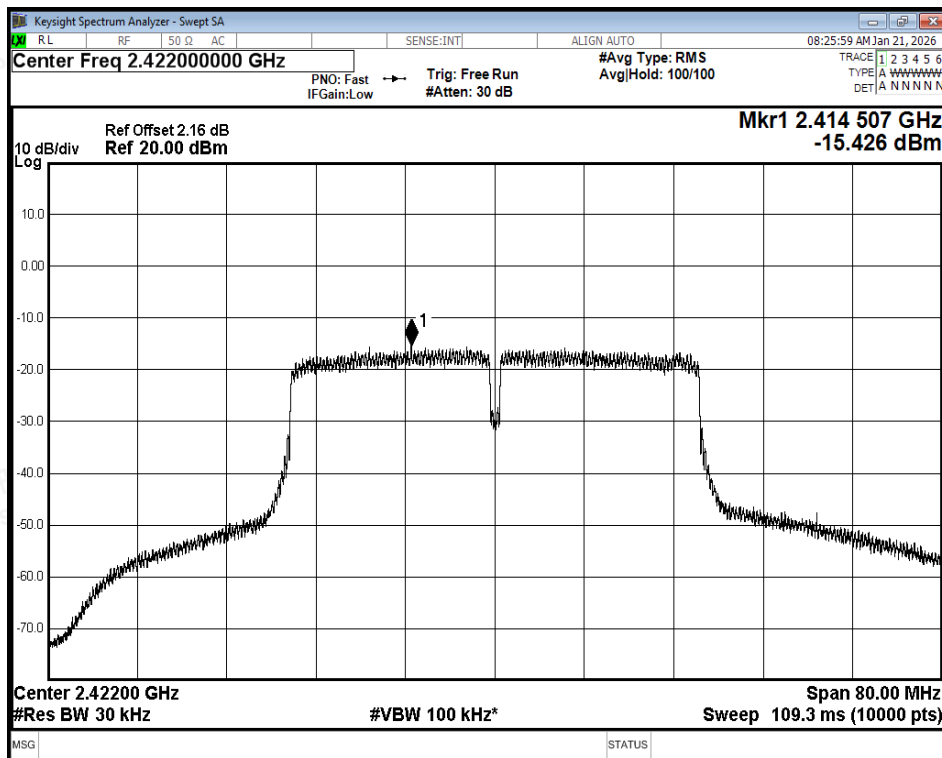


PSD NVNT n20 2437MHz Ant1



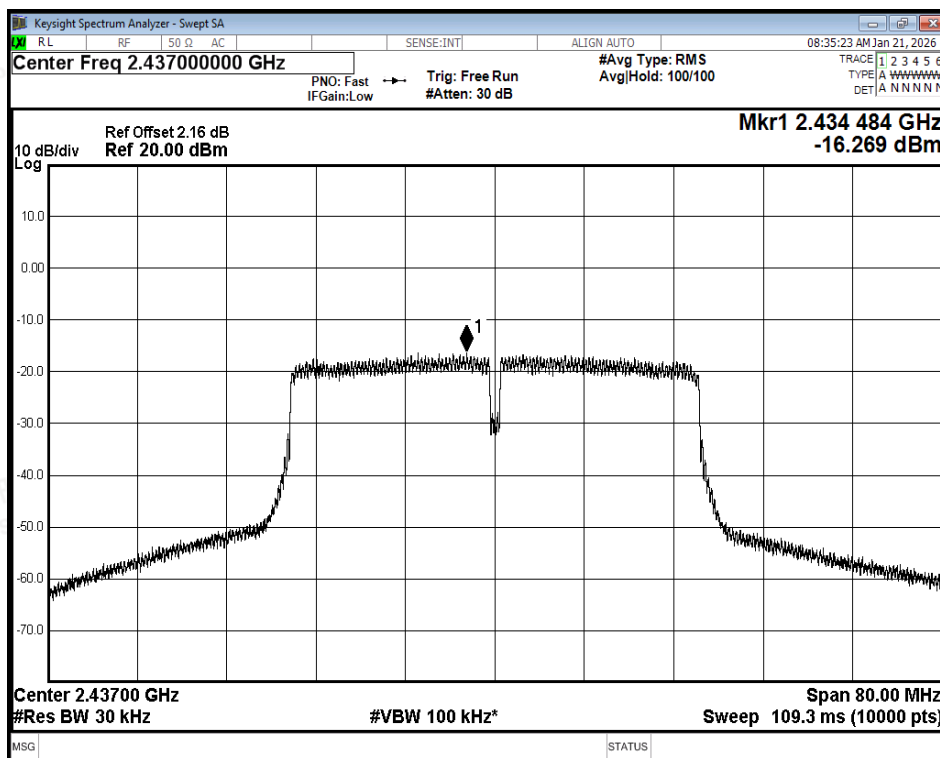


PSD NVNT n20 2462MHz Ant1

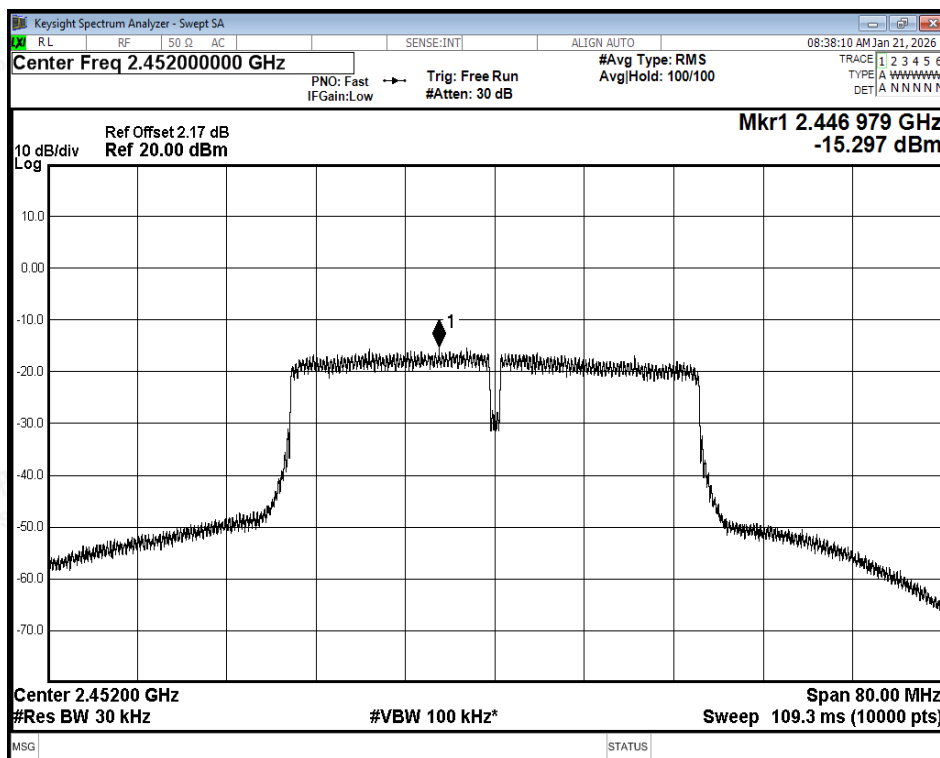


PSD NVNT n40 2422MHz Ant1



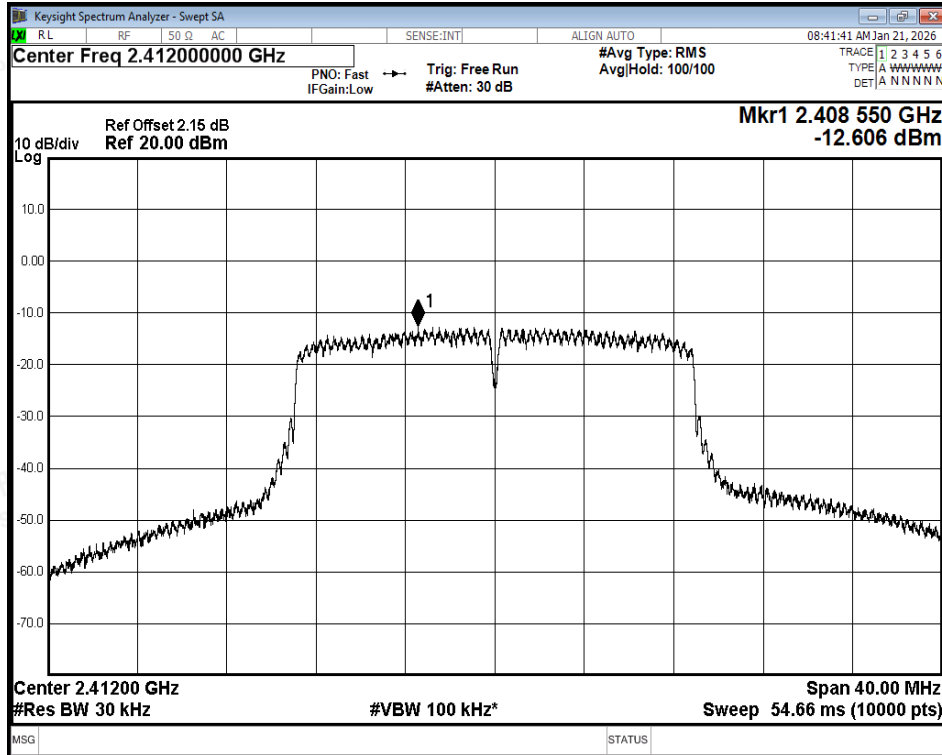


PSD NVNT n40 2437MHz Ant1

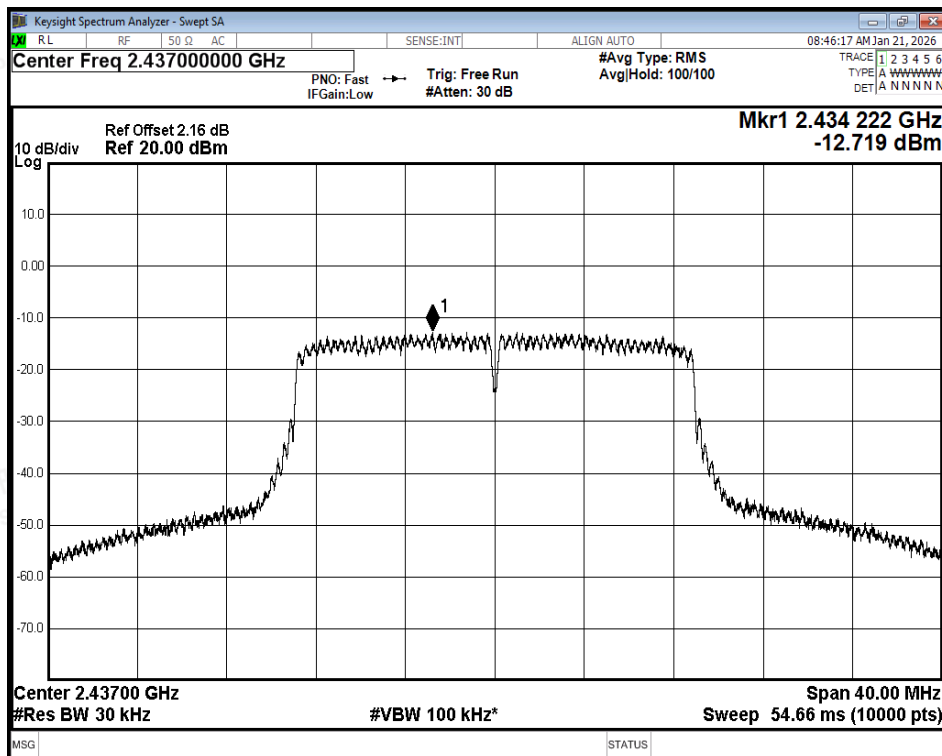


PSD NVNT n40 2452MHz Ant1



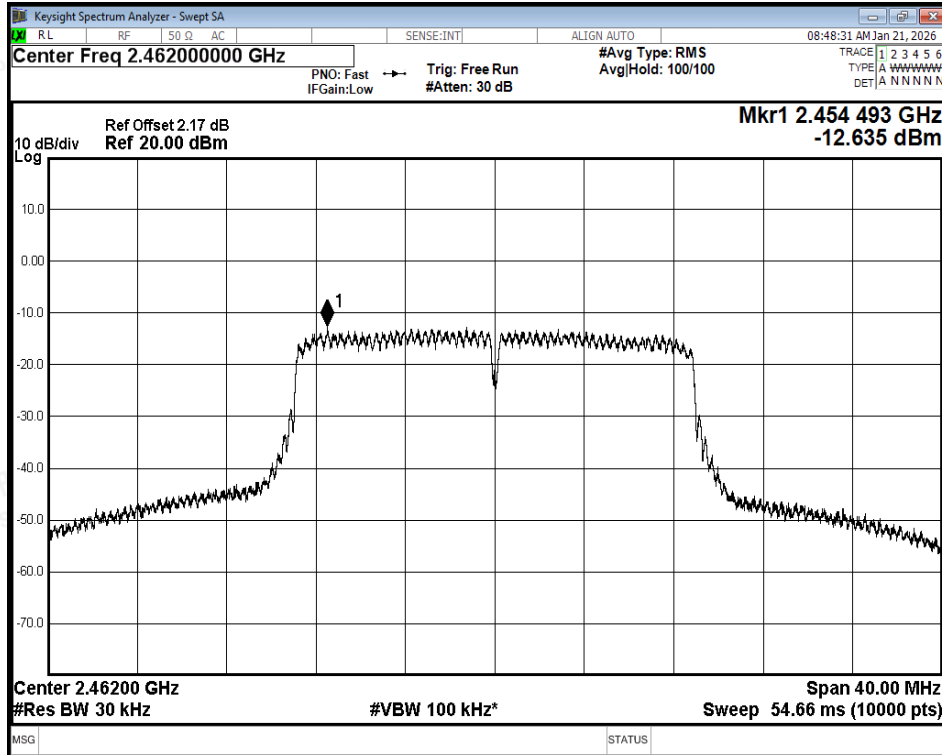


PSD NVNT ax20 2412MHz Ant1

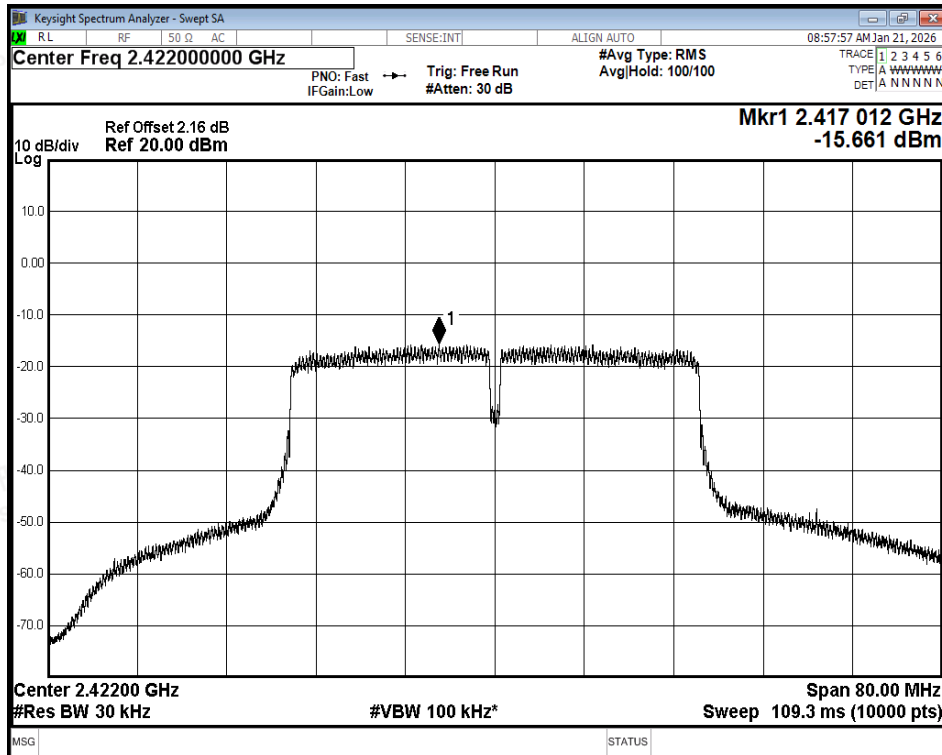


PSD NVNT ax20 2437MHz Ant1



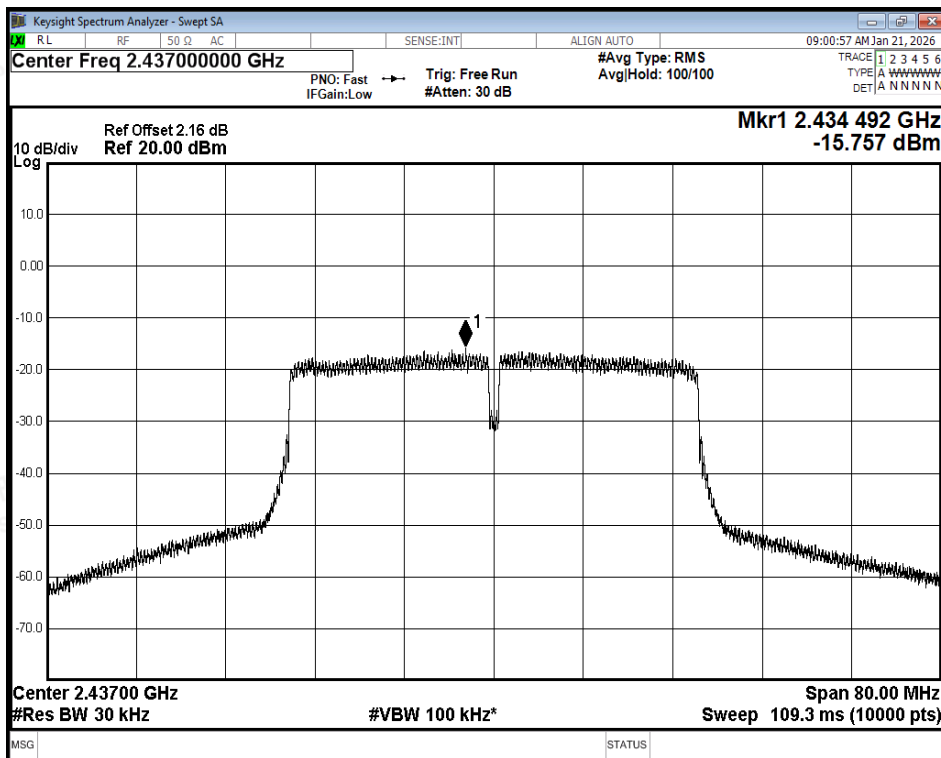


PSD NVNT ax20 2462MHz Ant1

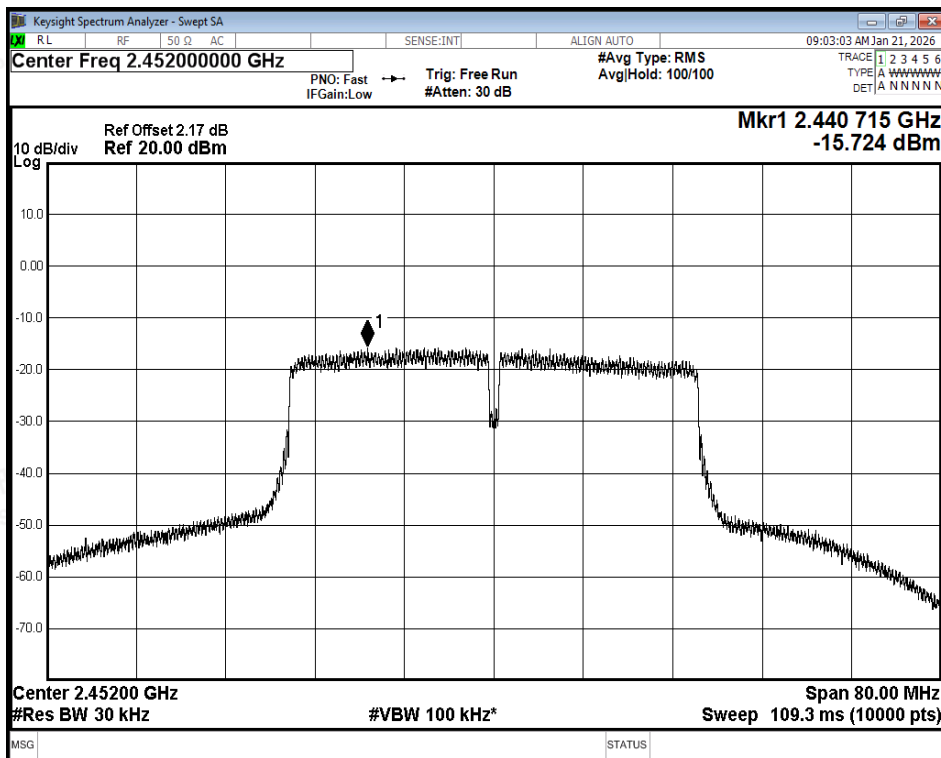


PSD NVNT ax40 2422MHz Ant1





PSD NVNT ax40 2437MHz Ant1



PSD NVNT ax40 2452MHz Ant1



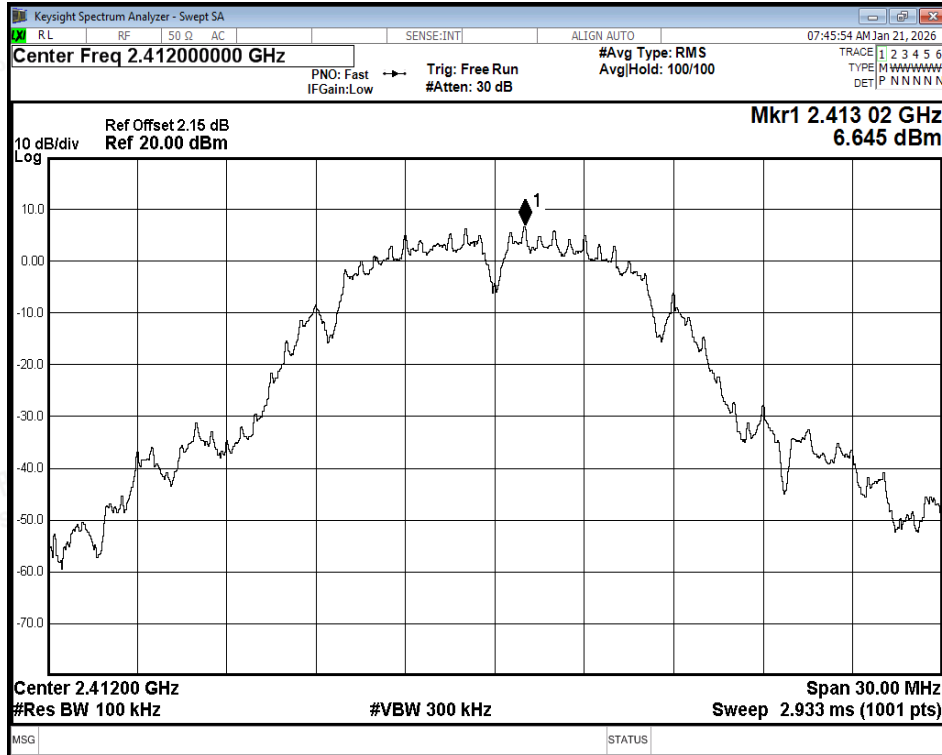


C.4 Band Edge

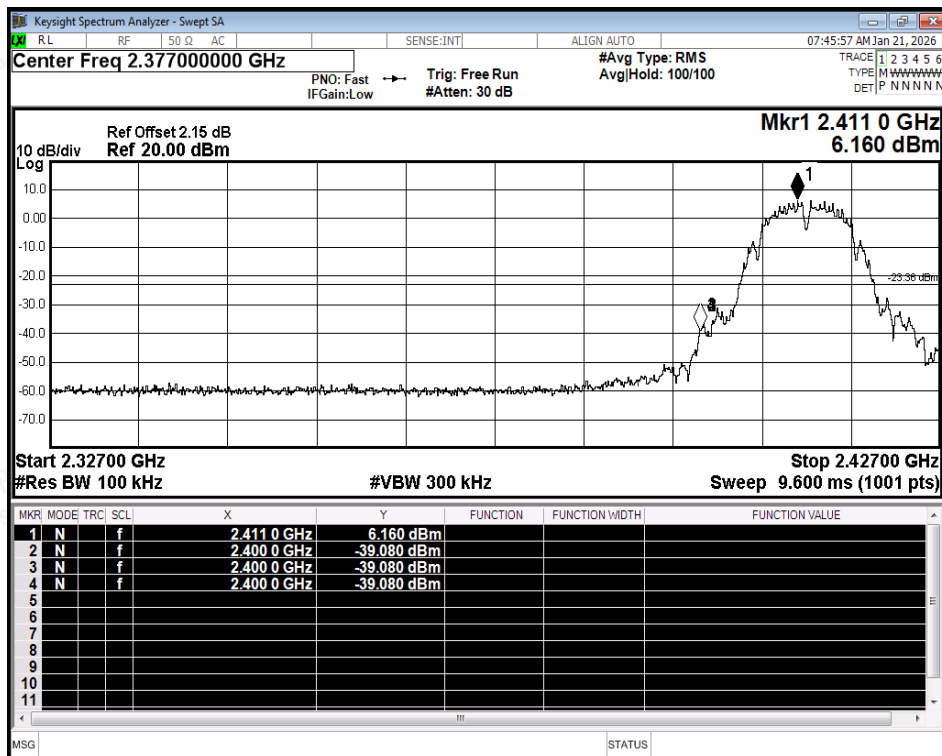
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.72	-30	Pass
NVNT	b	2462	Ant1	-60.54	-30	Pass
NVNT	g	2412	Ant1	-32.41	-30	Pass
NVNT	g	2462	Ant1	-43.69	-30	Pass
NVNT	n20	2412	Ant1	-31.61	-30	Pass
NVNT	n20	2462	Ant1	-42.72	-30	Pass
NVNT	n40	2422	Ant1	-32.76	-30	Pass
NVNT	n40	2452	Ant1	-39.38	-30	Pass
NVNT	ax20	2412	Ant1	-30.95	-30	Pass
NVNT	ax20	2462	Ant1	-43.05	-30	Pass
NVNT	ax40	2422	Ant1	-32.44	-30	Pass
NVNT	ax40	2452	Ant1	-38.29	-30	Pass

Note: offset=System attenuation +cabal loss



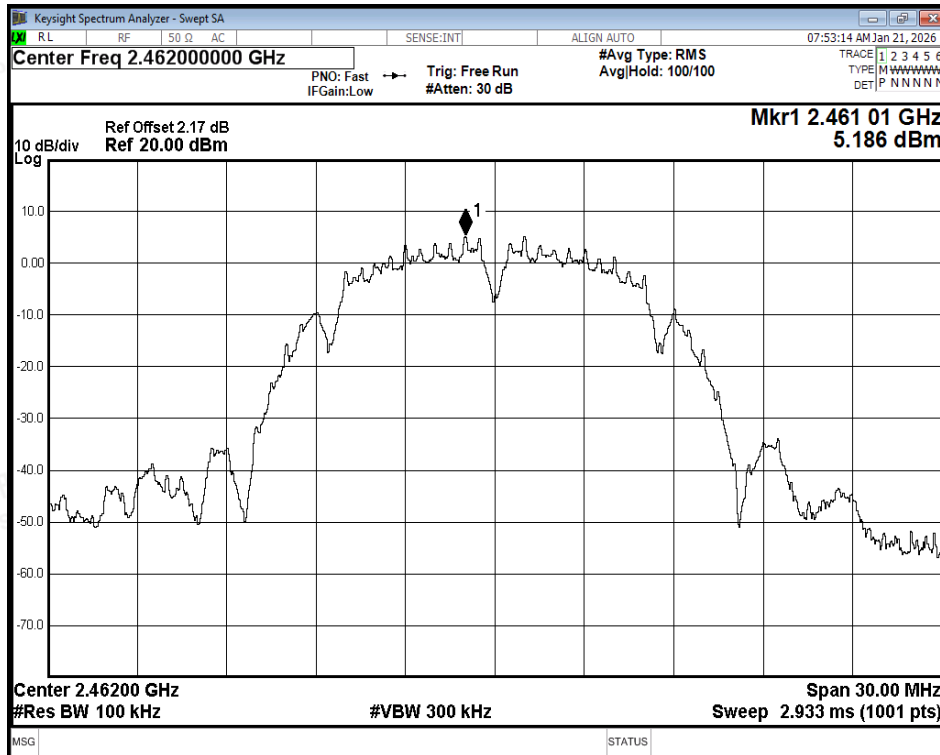


Band Edge NVNT b 2412MHz Ant1 Ref

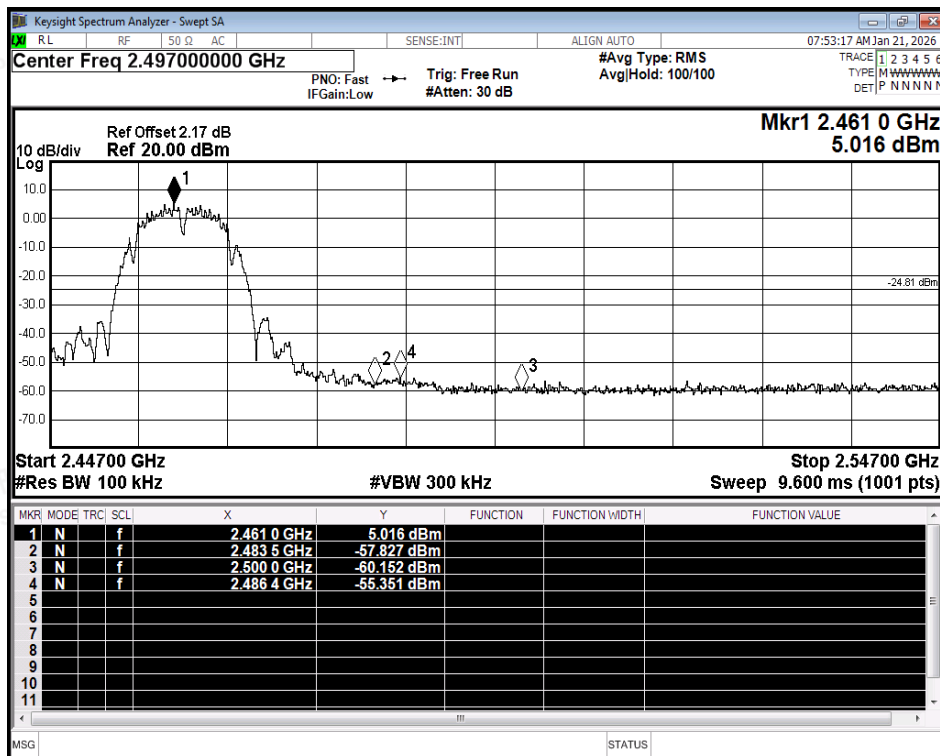


Band Edge NVNT b 2412MHz Ant1 Emission



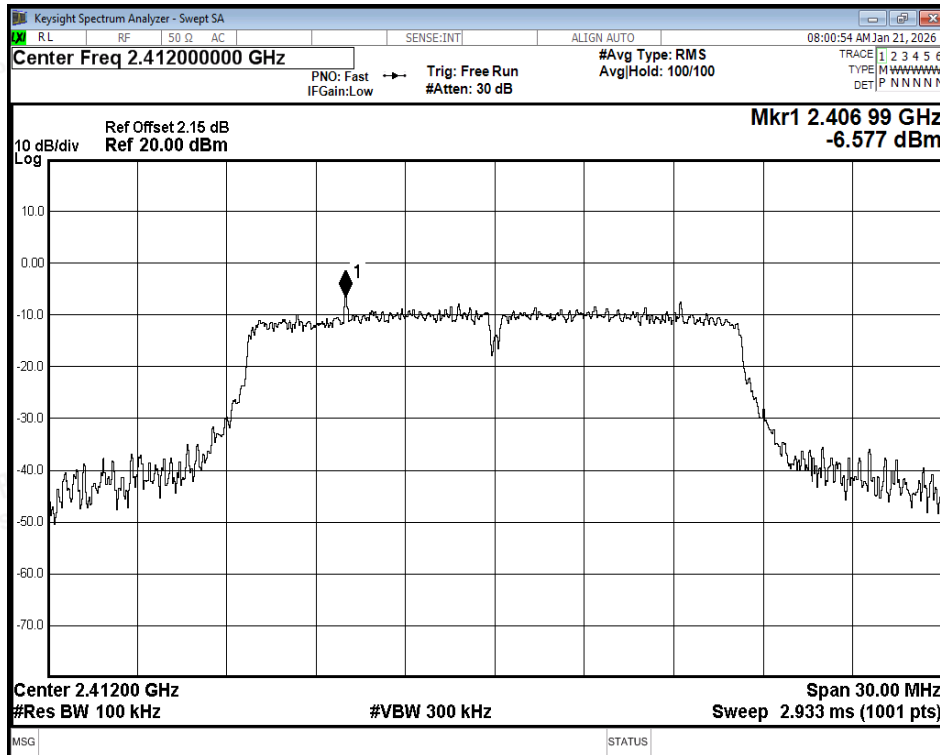


Band Edge NVNT b 2462MHz Ant1 Ref

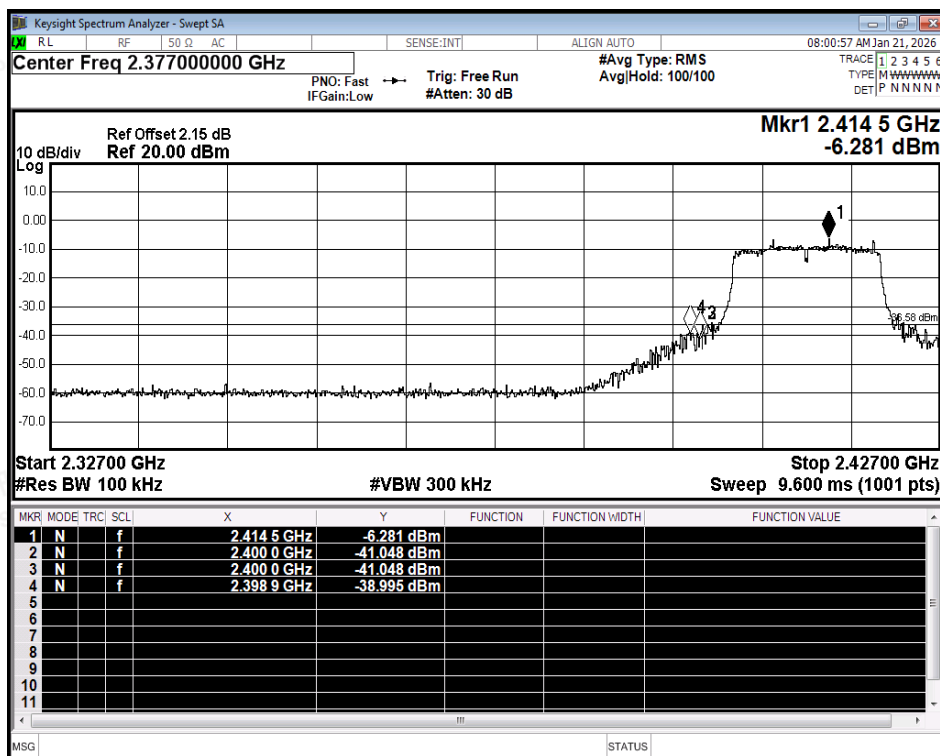


Band Edge NVNT b 2462MHz Ant1 Emission



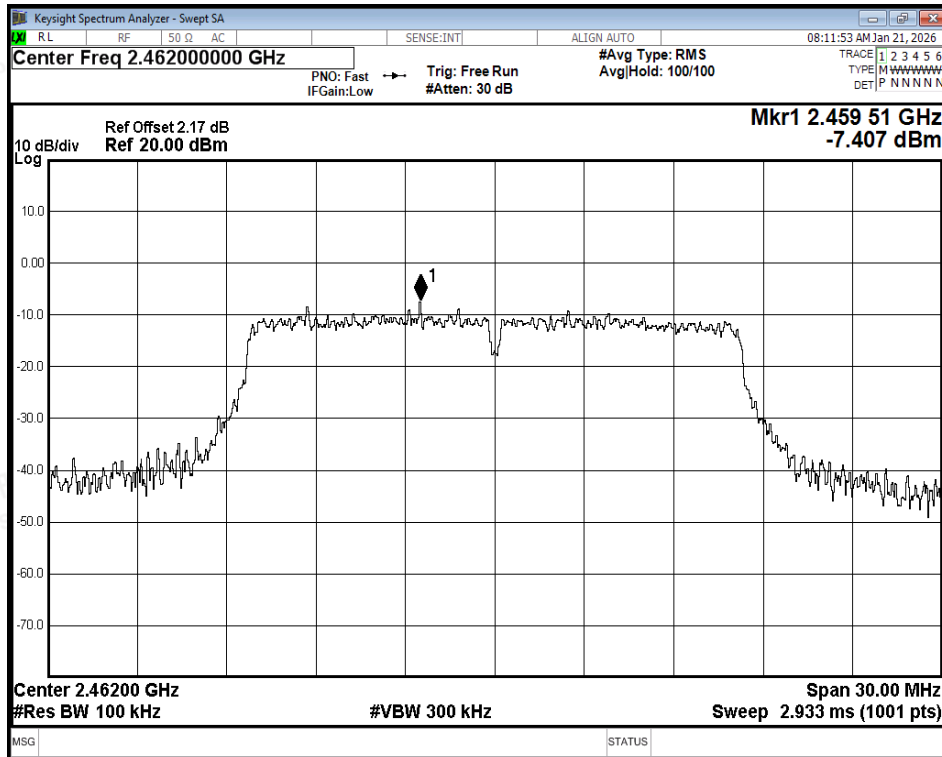


Band Edge NVNT g 2412MHz Ant1 Ref

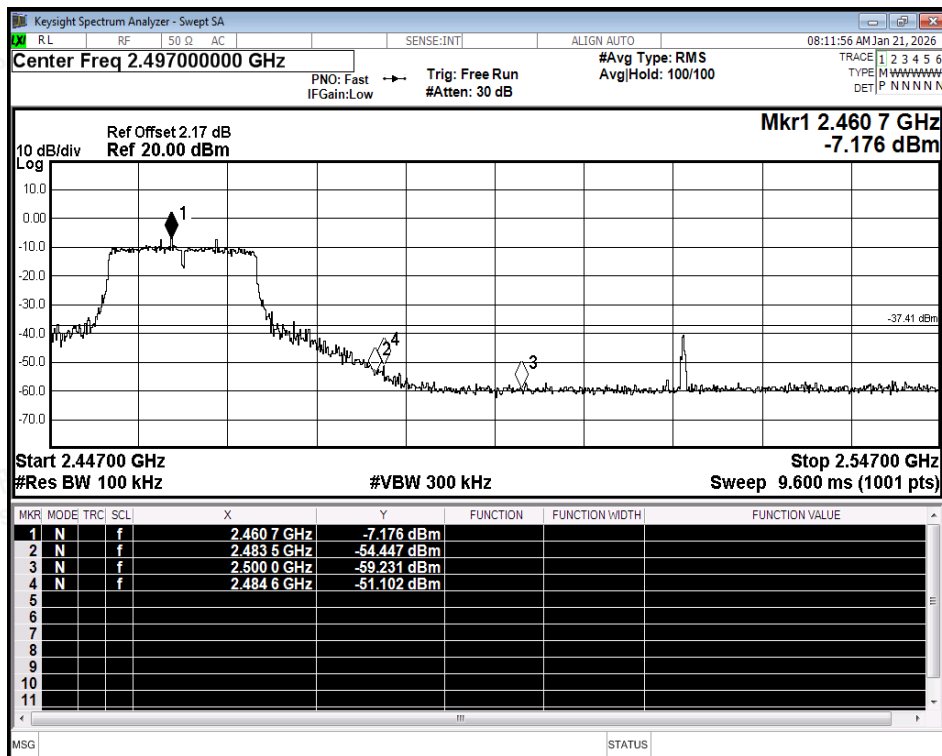


Band Edge NVNT g 2412MHz Ant1 Emission



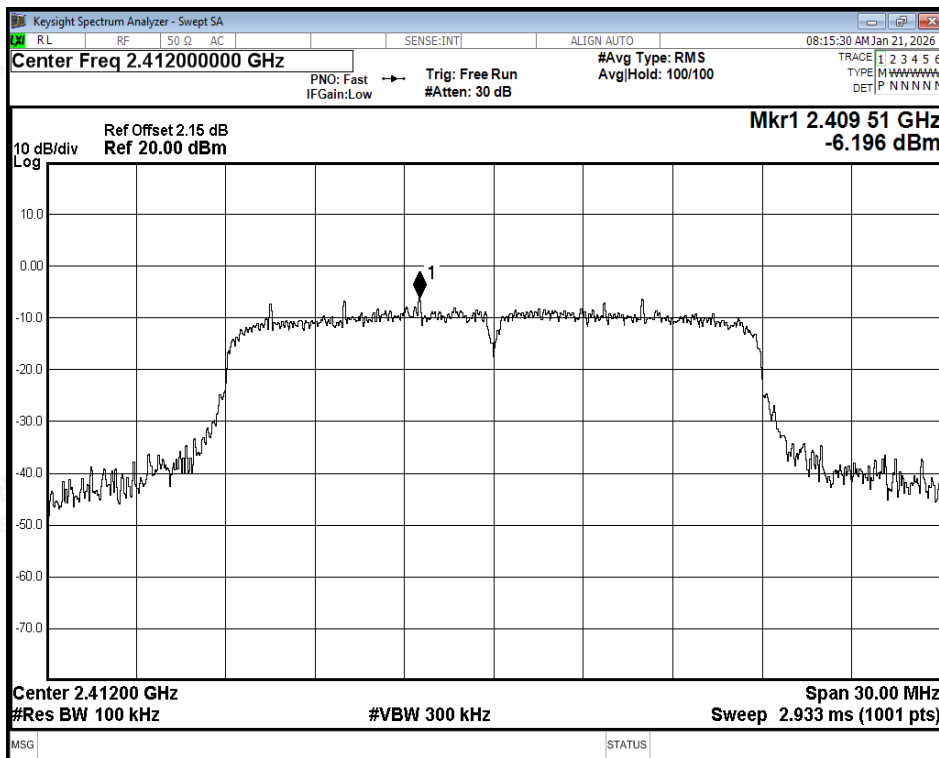


Band Edge NVNT g 2462MHz Ant1 Ref

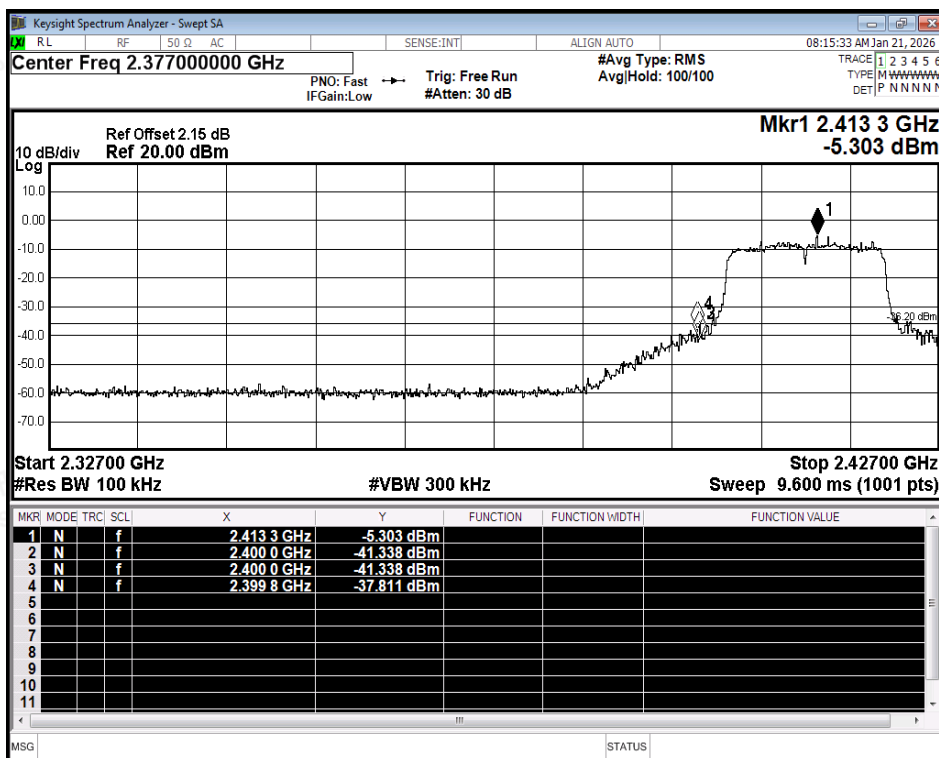


Band Edge NVNT g 2462MHz Ant1 Emission



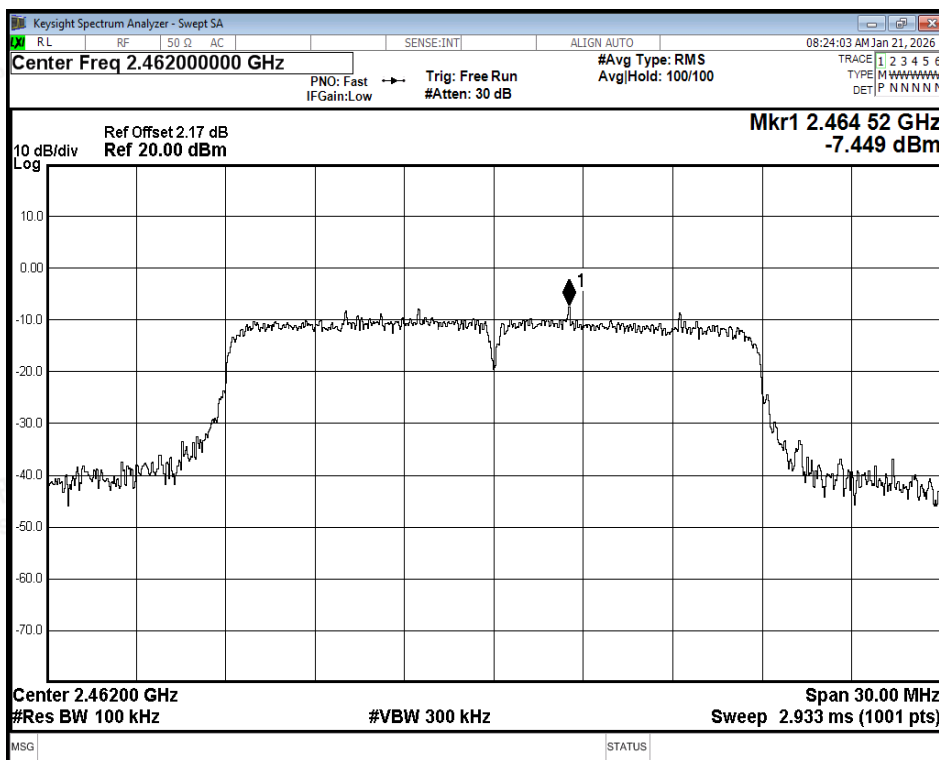


Band Edge NVNT n20 2412MHz Ant1 Ref

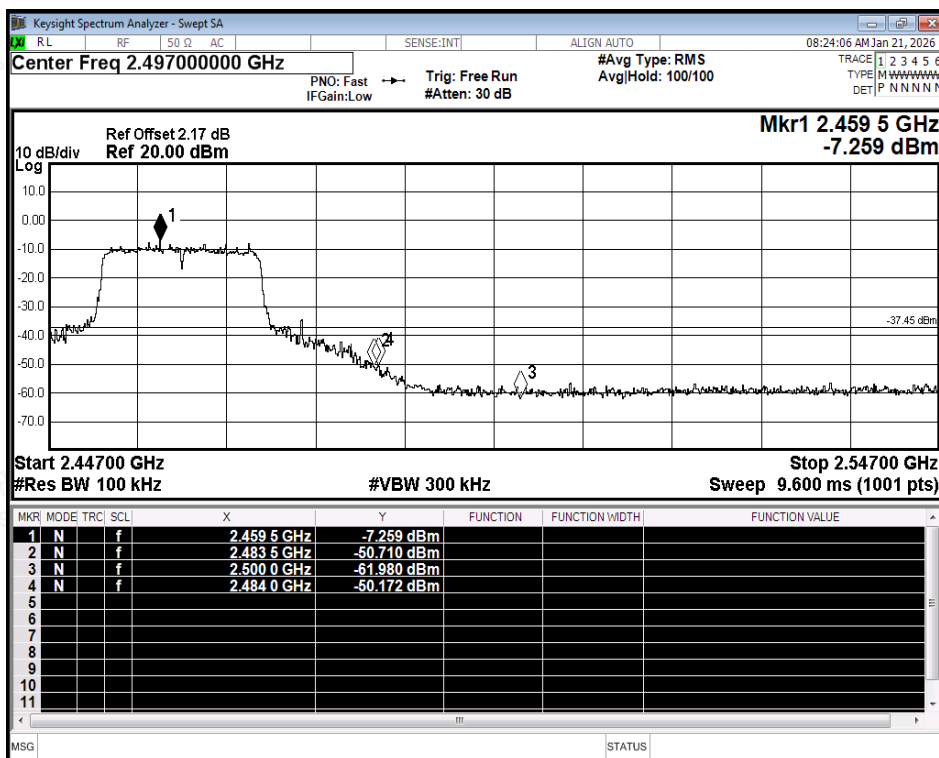


Band Edge NVNT n20 2412MHz Ant1 Emission



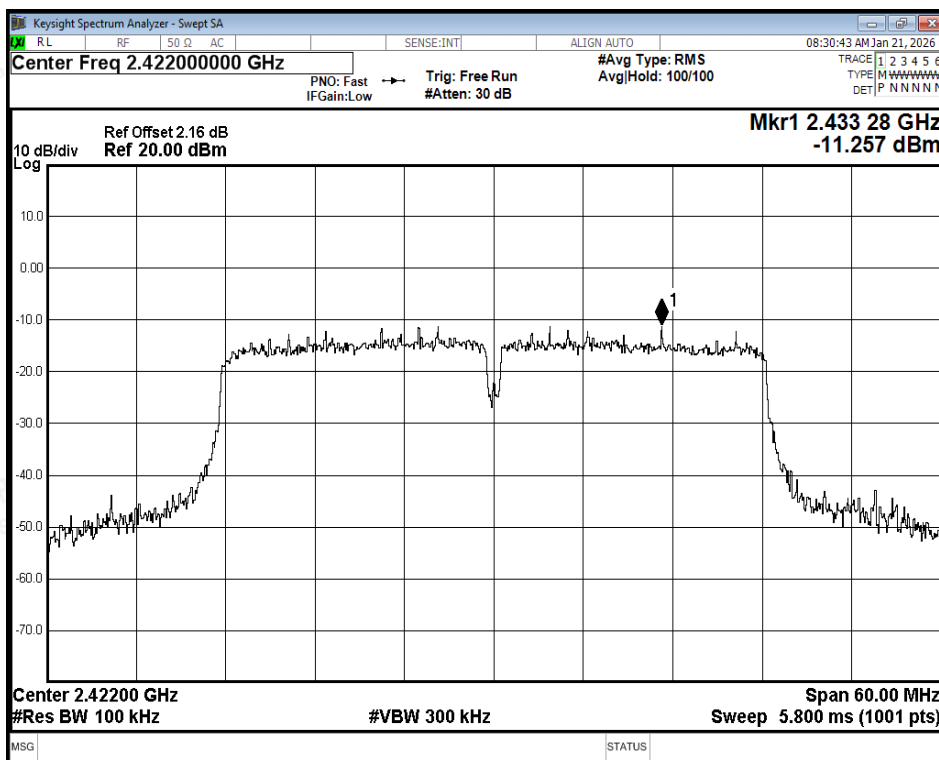


Band Edge NVNT n20 2462MHz Ant1 Ref

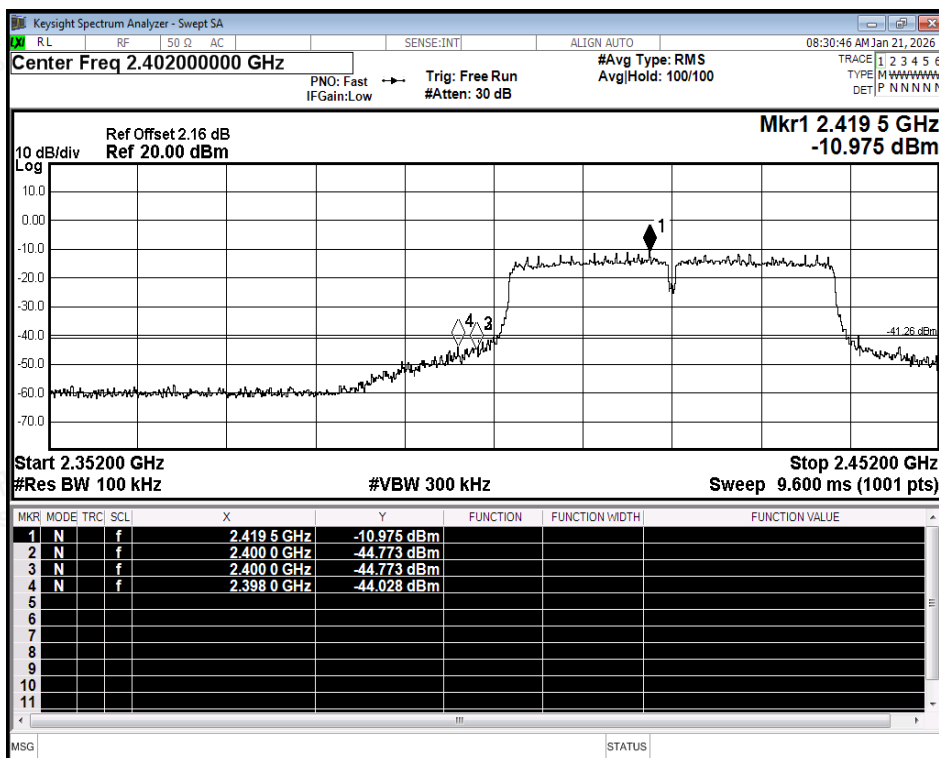


Band Edge NVNT n20 2462MHz Ant1 Emission



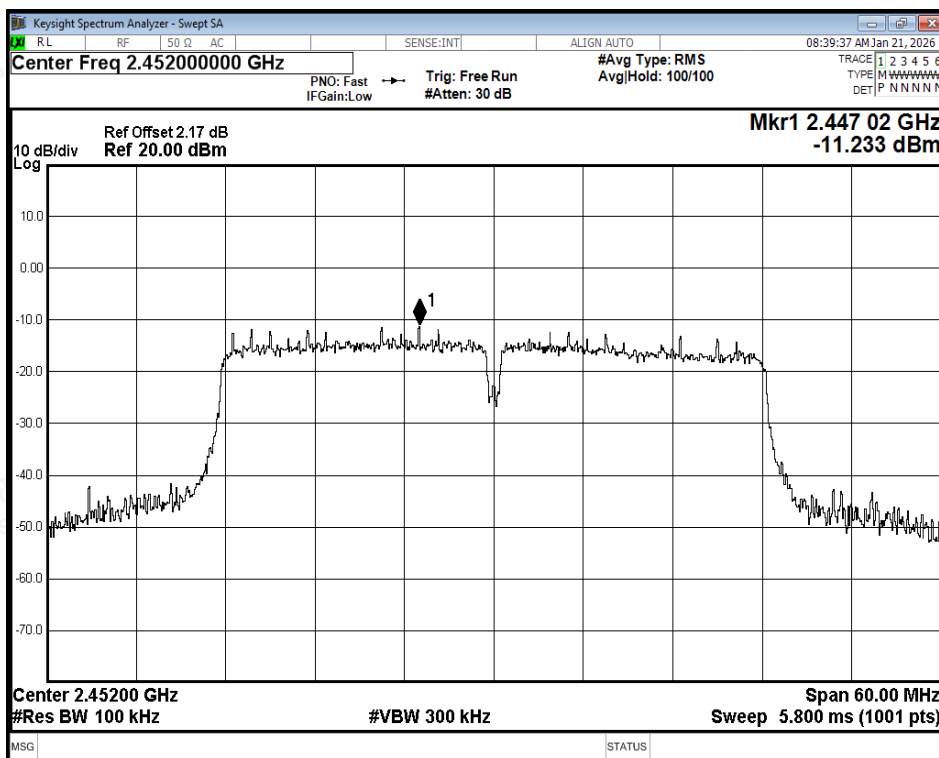


Band Edge NVNT n40 2422MHz Ant1 Ref

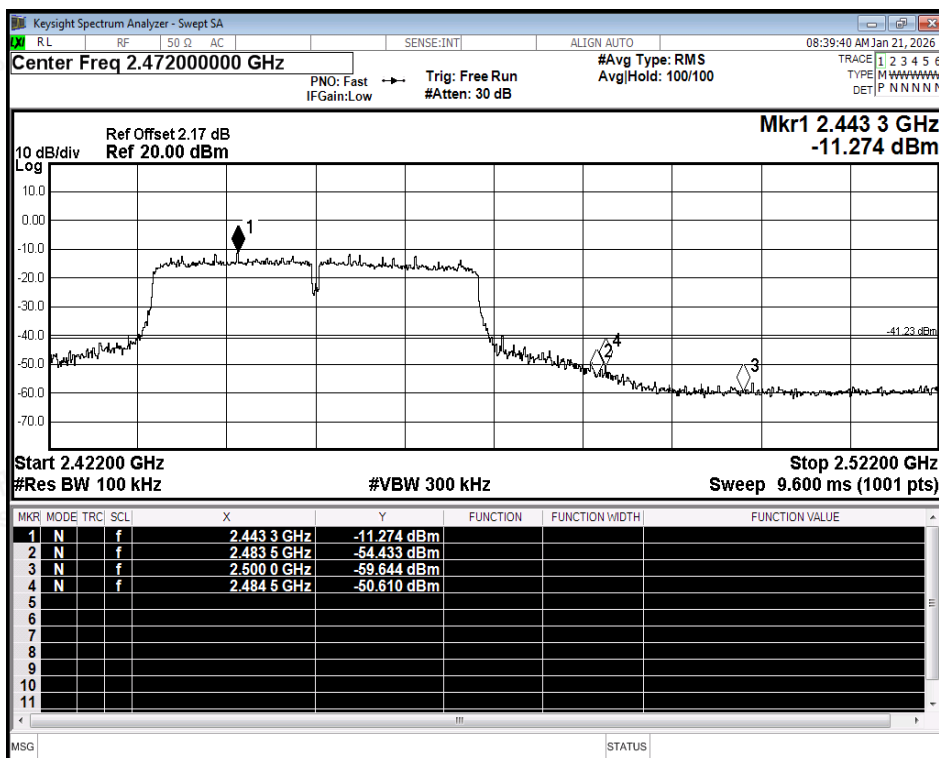


Band Edge NVNT n40 2422MHz Ant1 Emission



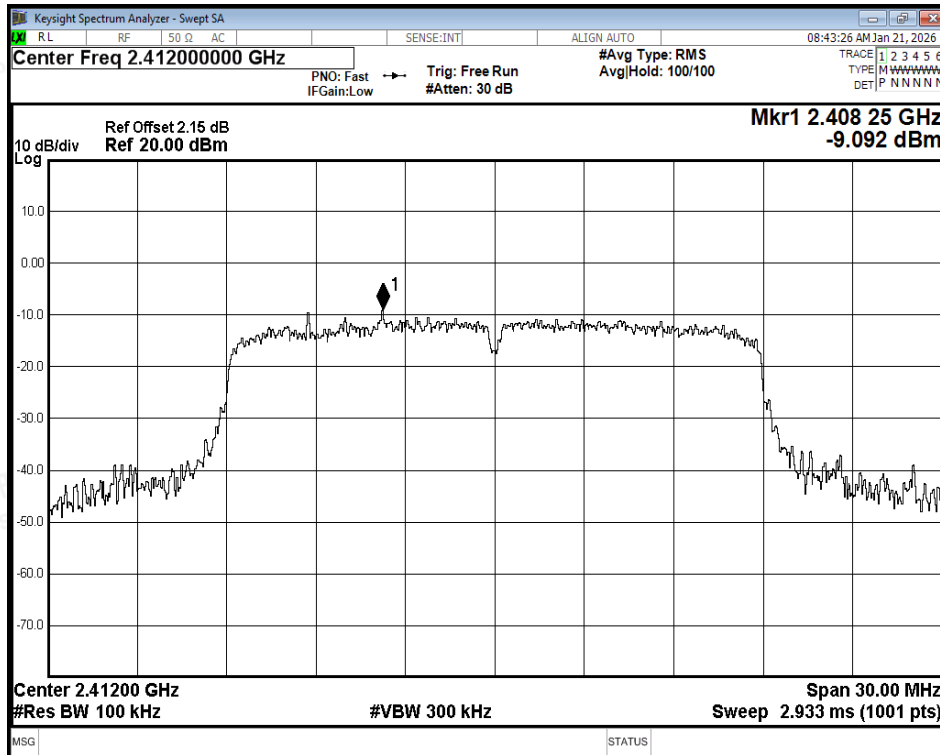


Band Edge NVNT n40 2452MHz Ant1 Ref

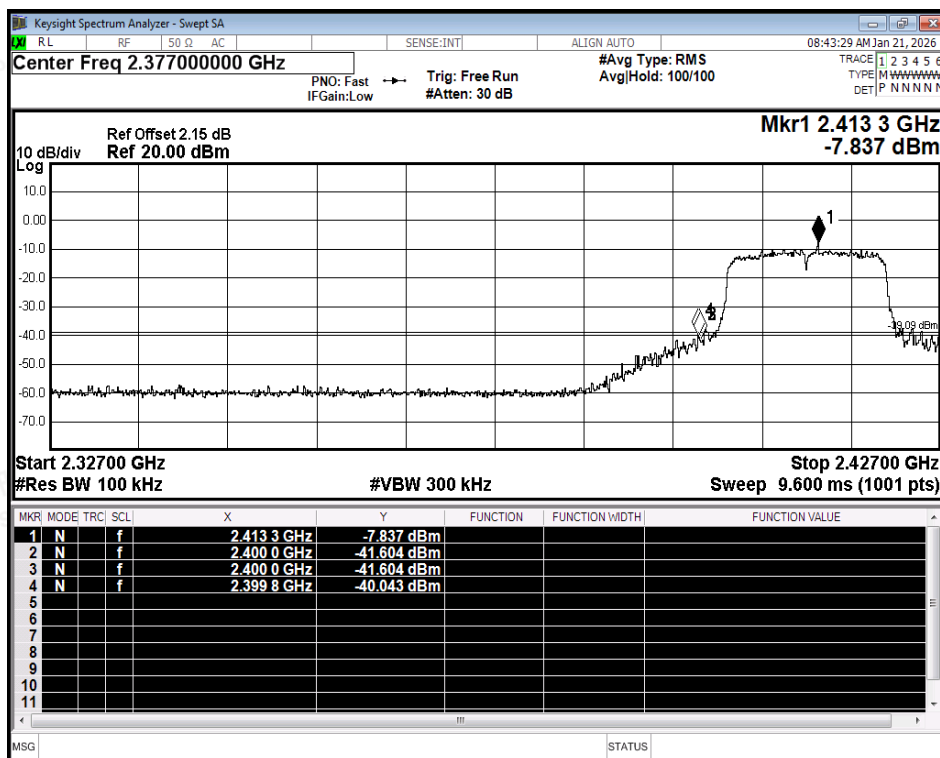


Band Edge NVNT n40 2452MHz Ant1 Emission



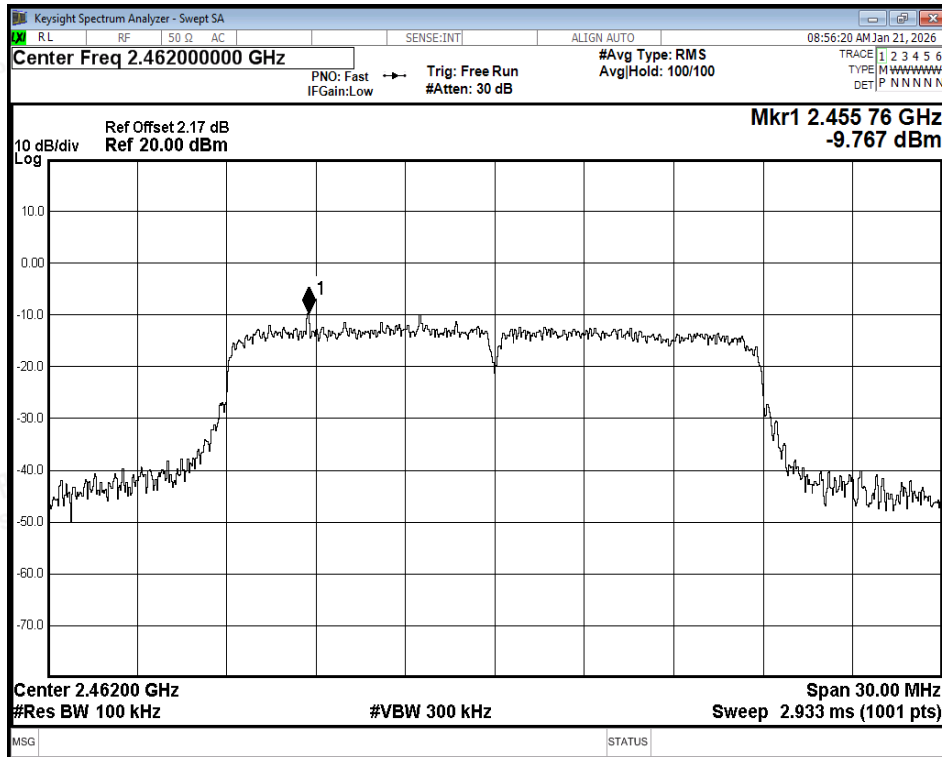


Band Edge NVNT ax20 2412MHz Ant1 Ref

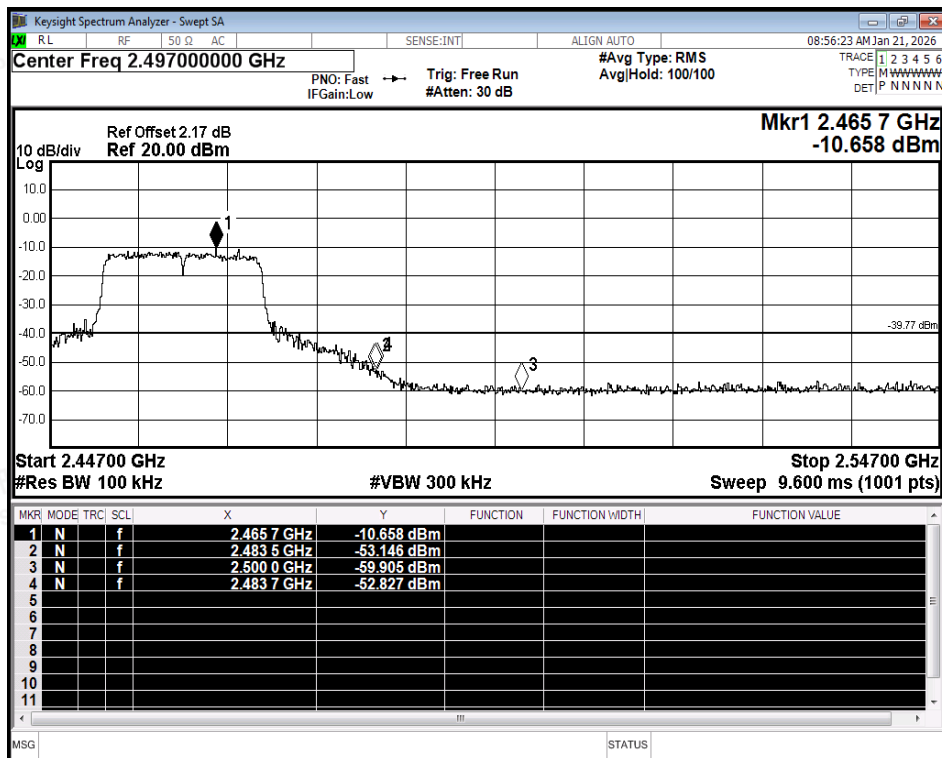


Band Edge NVNT ax20 2412MHz Ant1 Emission



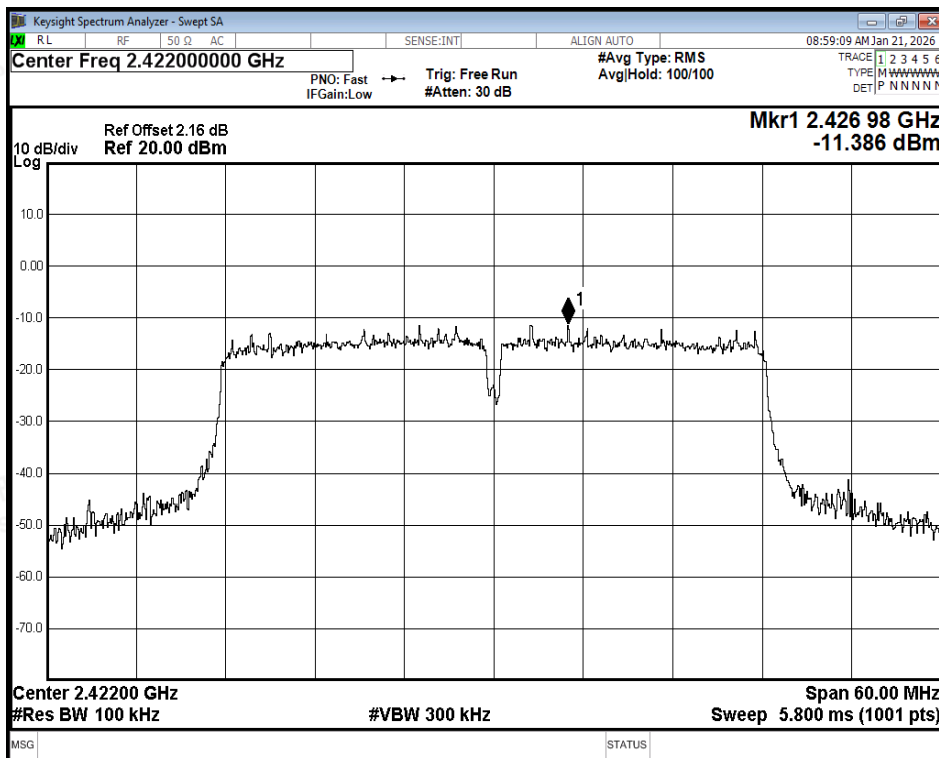


Band Edge NVNT ax20 2462MHz Ant1 Ref

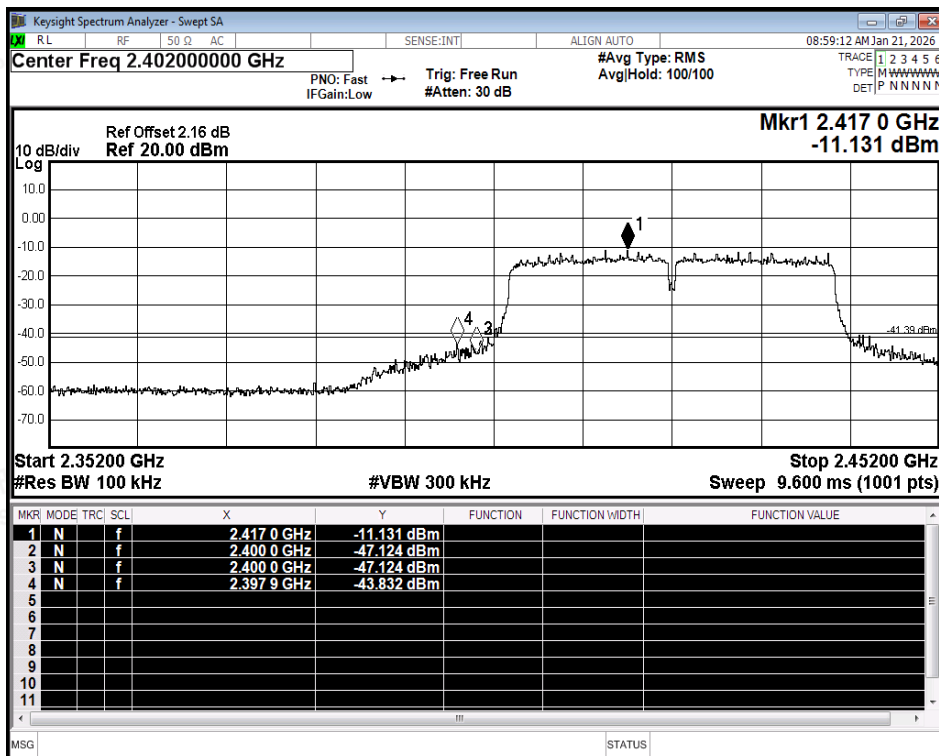


Band Edge NVNT ax20 2462MHz Ant1 Emission



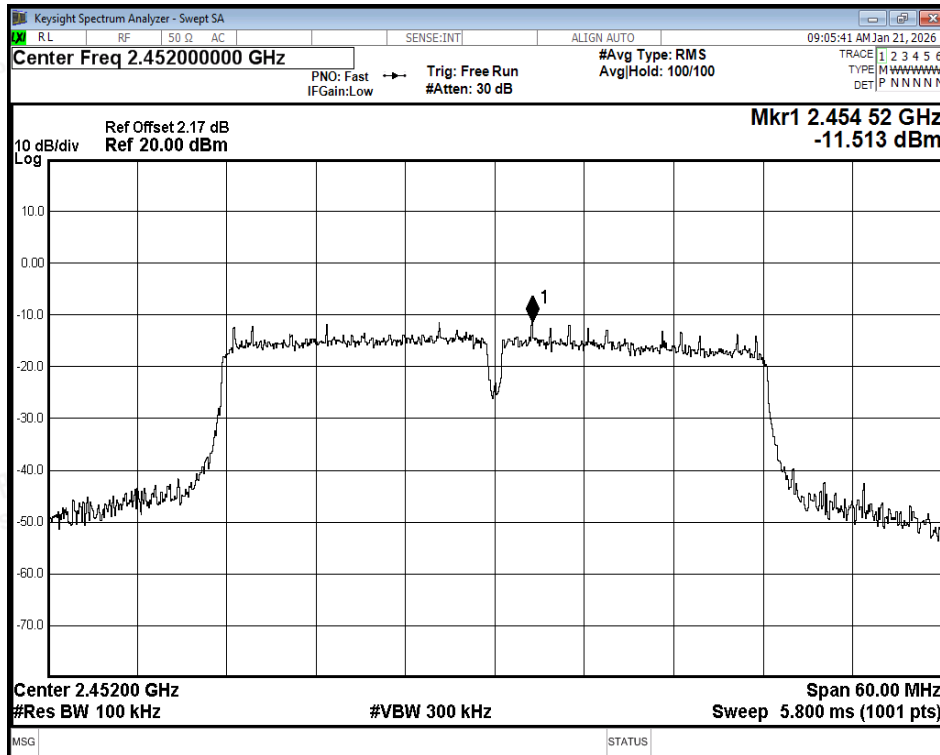


Band Edge NVNT ax40 2422MHz Ant1 Ref

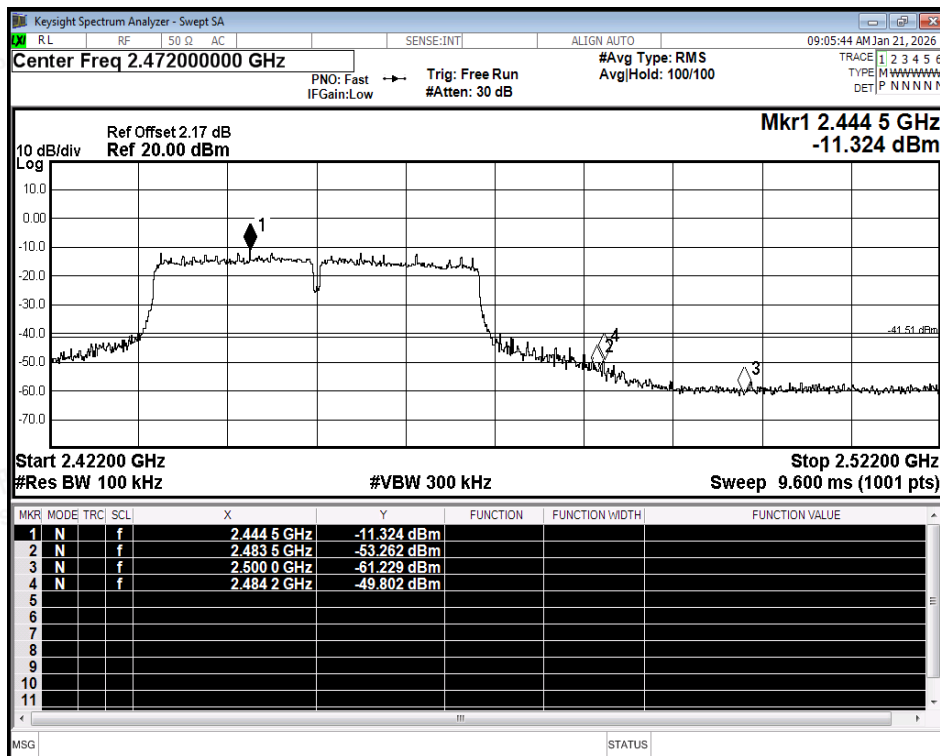


Band Edge NVNT ax40 2422MHz Ant1 Emission





Band Edge NVNT ax40 2452MHz Ant1 Ref



Band Edge NVNT ax40 2452MHz Ant1 Emission



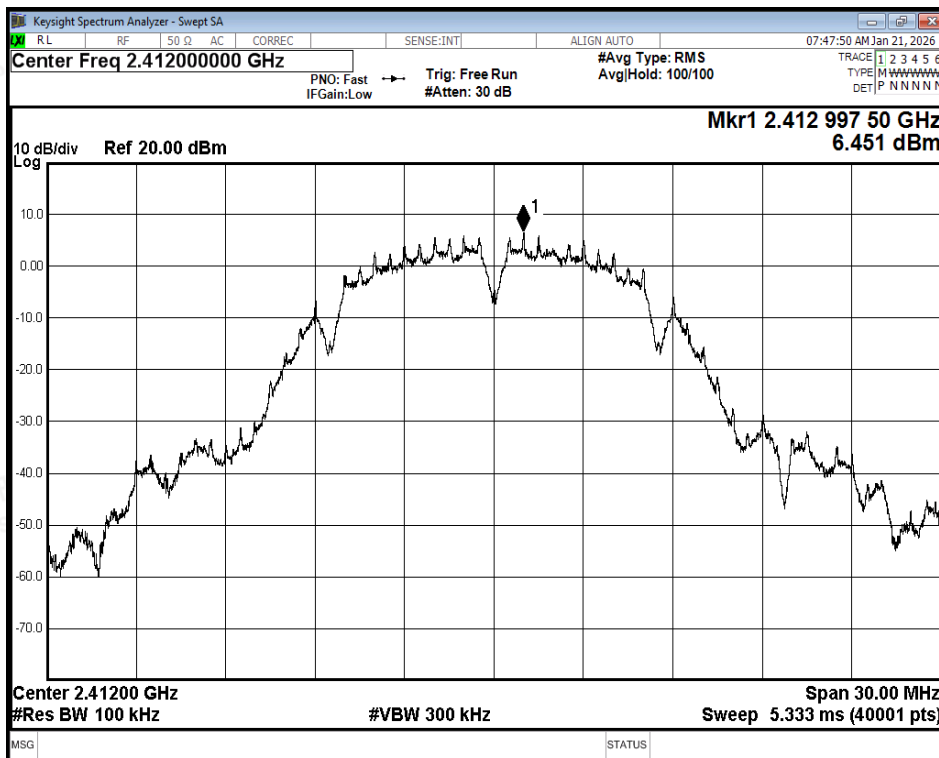


C.5 Conducted RF Spurious Emission

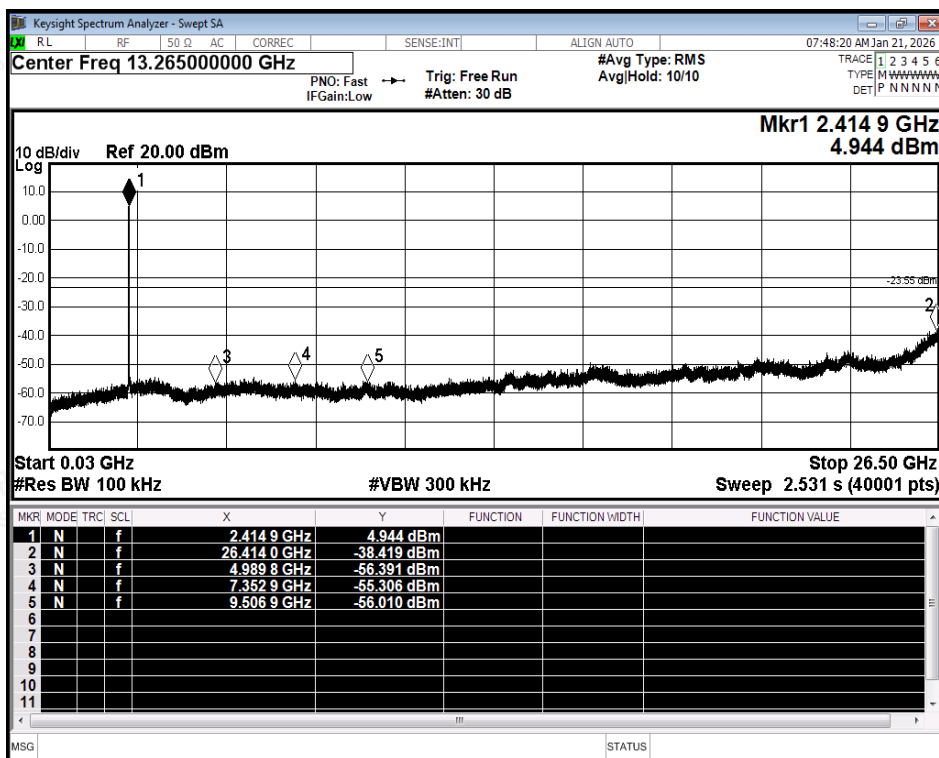
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-44.86	-30	Pass
NVNT	b	2437	Ant1	-43.64	-30	Pass
NVNT	b	2462	Ant1	-42.54	-30	Pass
NVNT	g	2412	Ant1	-40.58	-30	Pass
NVNT	g	2437	Ant1	-38.5	-30	Pass
NVNT	g	2462	Ant1	-39.73	-30	Pass
NVNT	n20	2412	Ant1	-39.56	-30	Pass
NVNT	n20	2437	Ant1	-38.85	-30	Pass
NVNT	n20	2462	Ant1	-38.2	-30	Pass
NVNT	n40	2422	Ant1	-36.58	-30	Pass
NVNT	n40	2437	Ant1	-34.97	-30	Pass
NVNT	n40	2452	Ant1	-36.7	-30	Pass
NVNT	ax20	2412	Ant1	-39.54	-30	Pass
NVNT	ax20	2437	Ant1	-39.35	-30	Pass
NVNT	ax20	2462	Ant1	-38.34	-30	Pass
NVNT	ax40	2422	Ant1	-35.57	-30	Pass
NVNT	ax40	2437	Ant1	-35.7	-30	Pass
NVNT	ax40	2452	Ant1	-36.28	-30	Pass

Note: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable loss have been set in the CORREC' of the Spectrum Analyzer during the test.



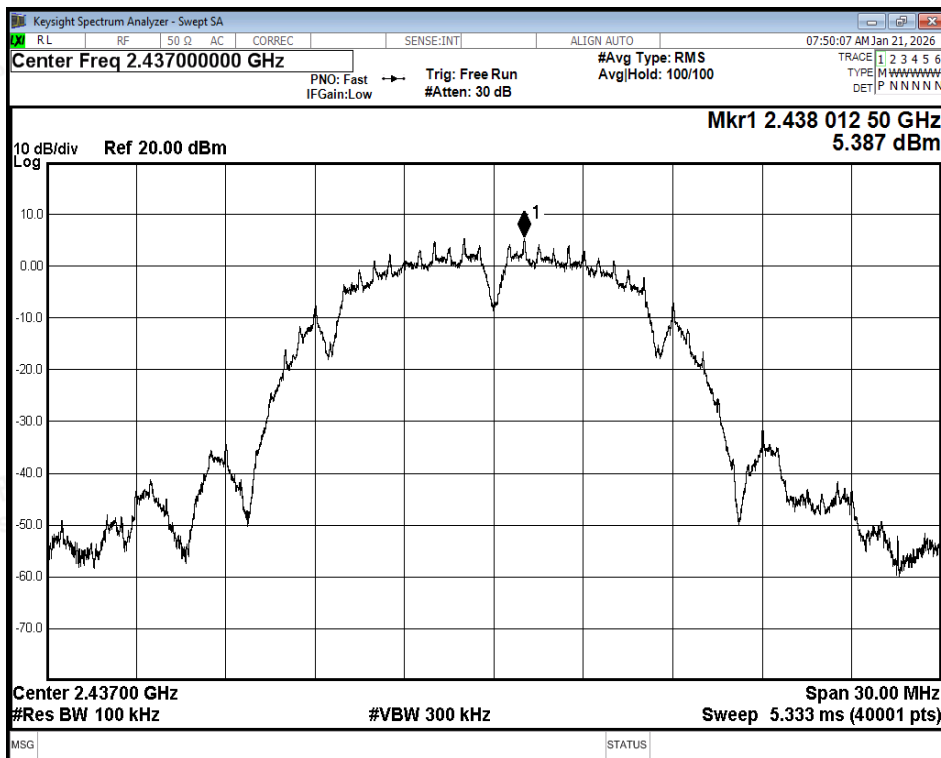


Tx. Spurious NVNT b 2412MHz Ant1 Ref

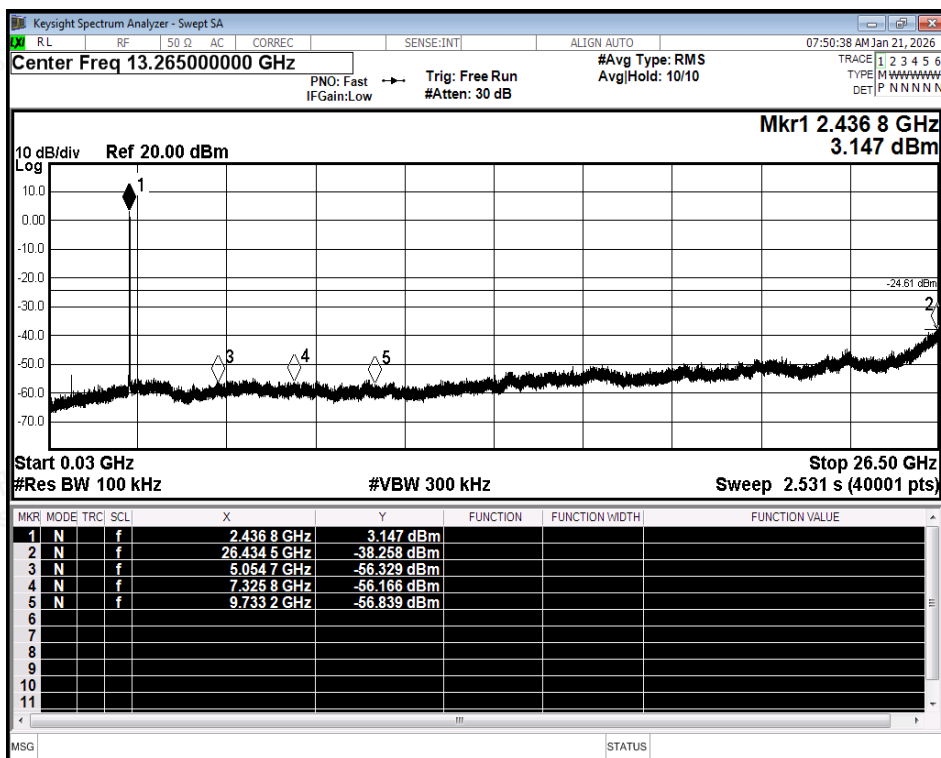


Tx. Spurious NVNT b 2412MHz Ant1 Emission



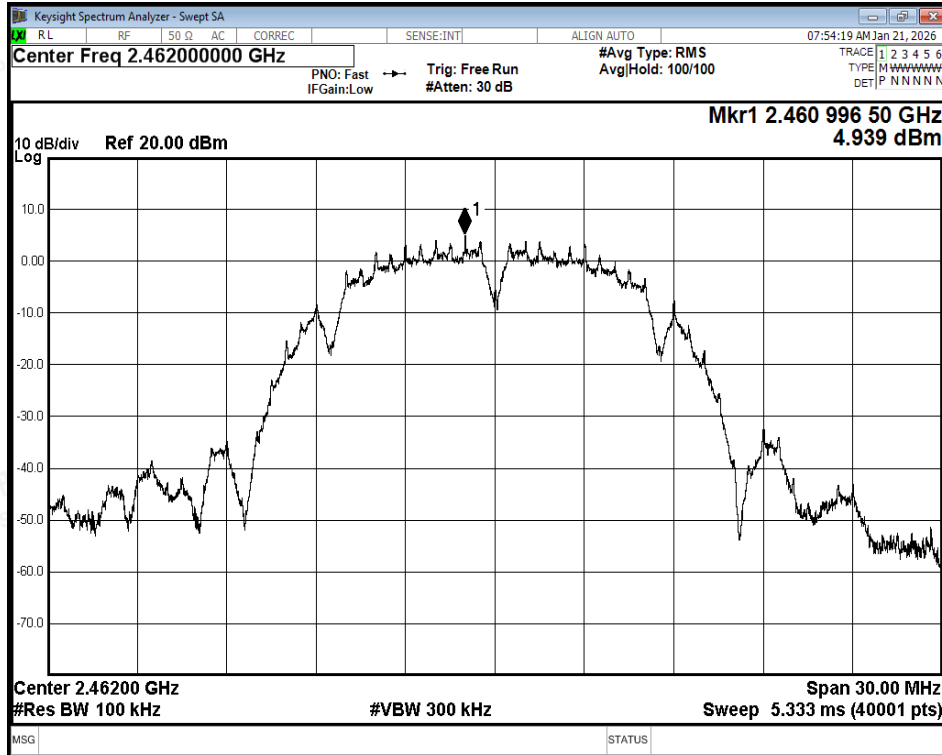


Tx. Spurious NVNT b 2437MHz Ant1 Ref

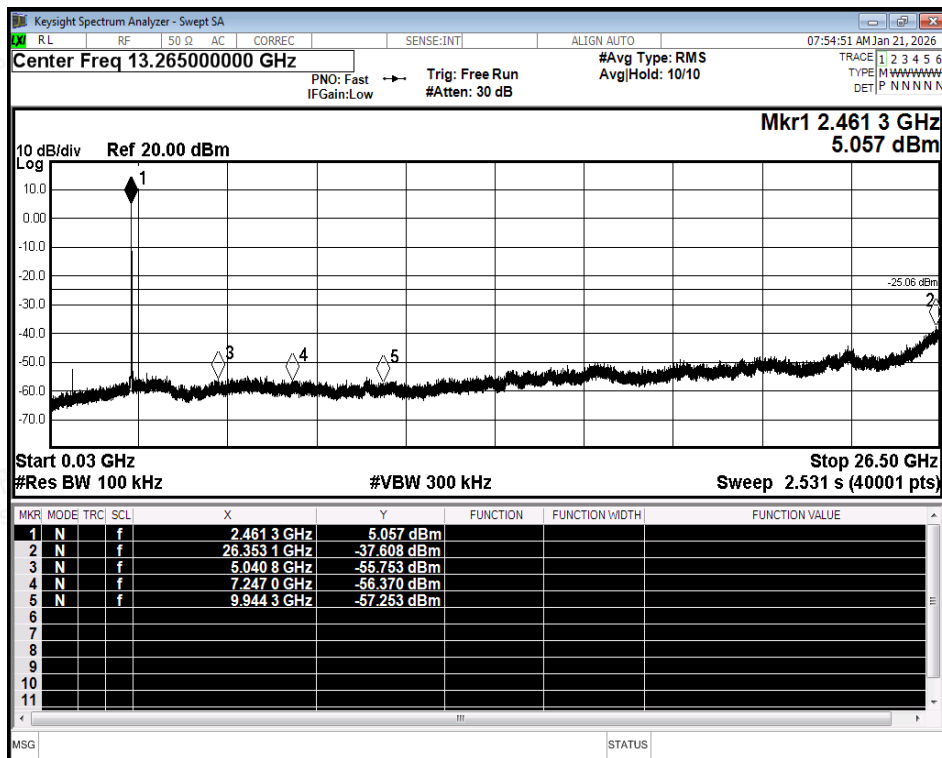


Tx. Spurious NVNT b 2437MHz Ant1 Emission



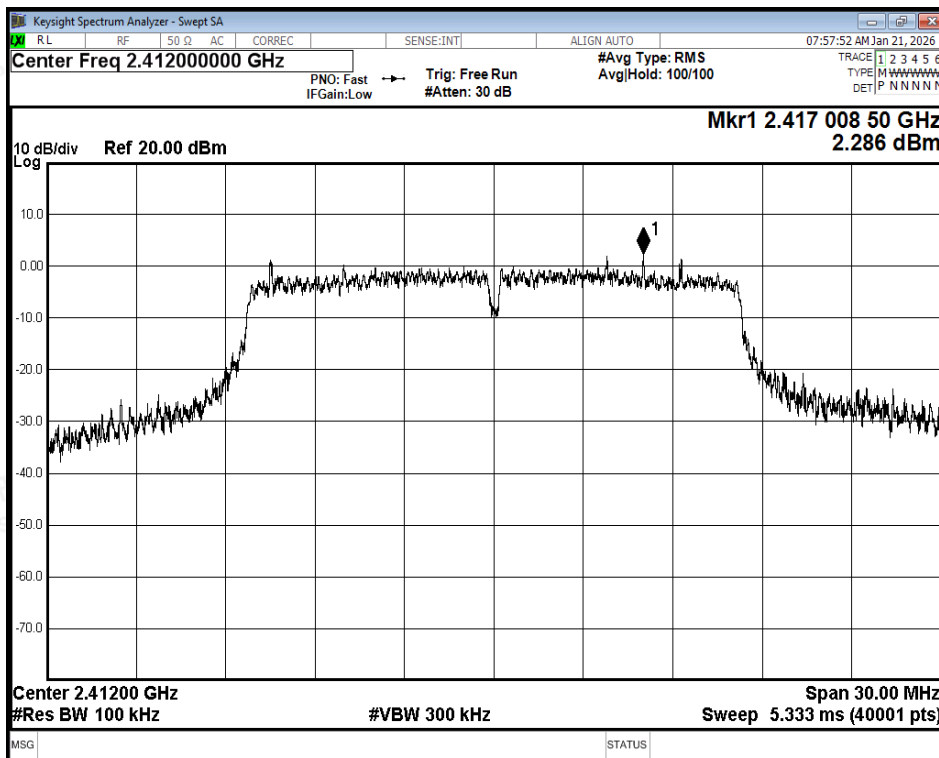


Tx. Spurious NVNT b 2462MHz Ant1 Ref

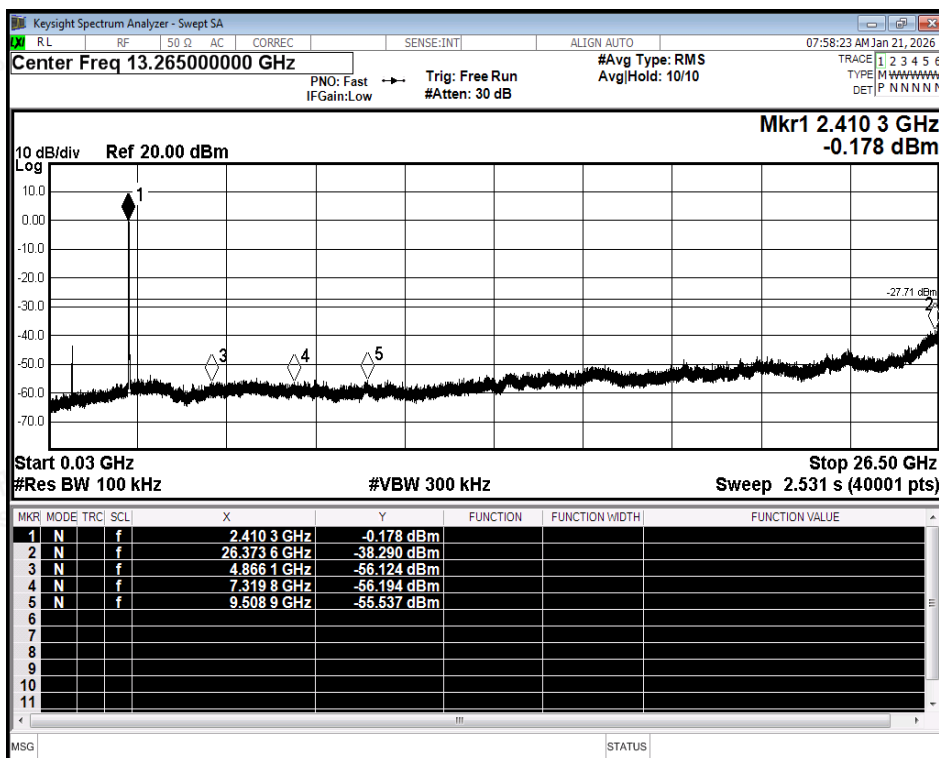


Tx. Spurious NVNT b 2462MHz Ant1 Emission





Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission

