



## Appendix A

### RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: Portable 4G LTE Router

Test Model: GL-E750V2C4

#### Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu





### A.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant0	9.162	0.5	Pass
NVNT	b	2437	Ant0	9.061	0.5	Pass
NVNT	b	2462	Ant0	9.018	0.5	Pass
NVNT	g	2412	Ant0	12.947	0.5	Pass
NVNT	g	2437	Ant0	14.069	0.5	Pass
NVNT	g	2462	Ant0	15.562	0.5	Pass
NVNT	n20	2412	Ant0	10.126	0.5	Pass
NVNT	n20	2437	Ant0	15.048	0.5	Pass
NVNT	n20	2462	Ant0	11.912	0.5	Pass
NVNT	n40	2422	Ant0	30.713	0.5	Pass
NVNT	n40	2437	Ant0	30.815	0.5	Pass
NVNT	n40	2452	Ant0	28.816	0.5	Pass

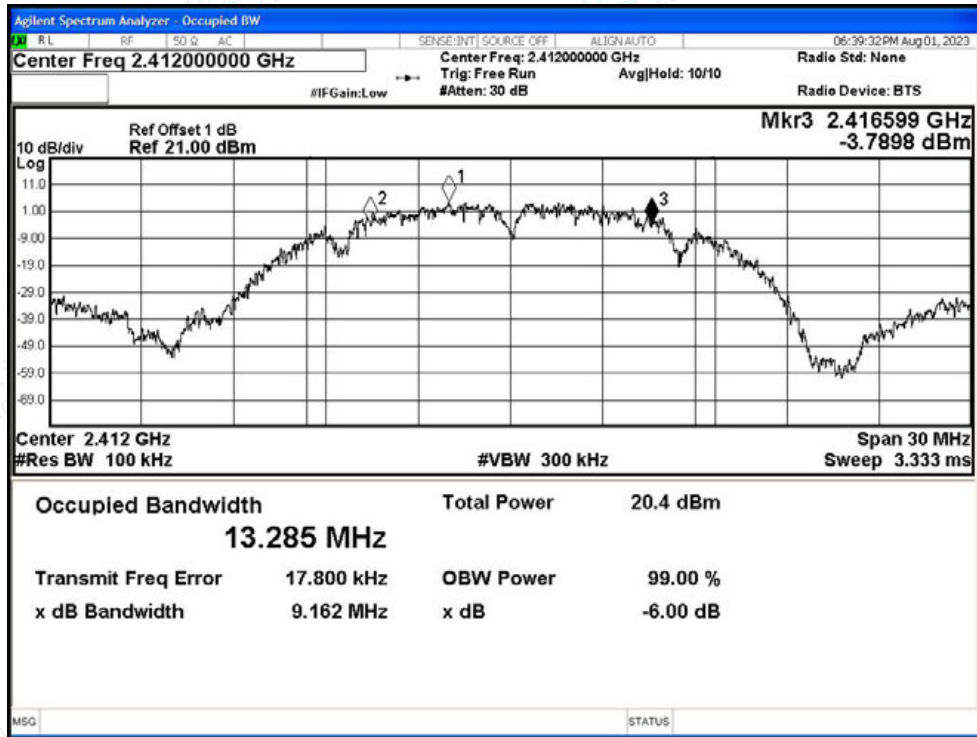


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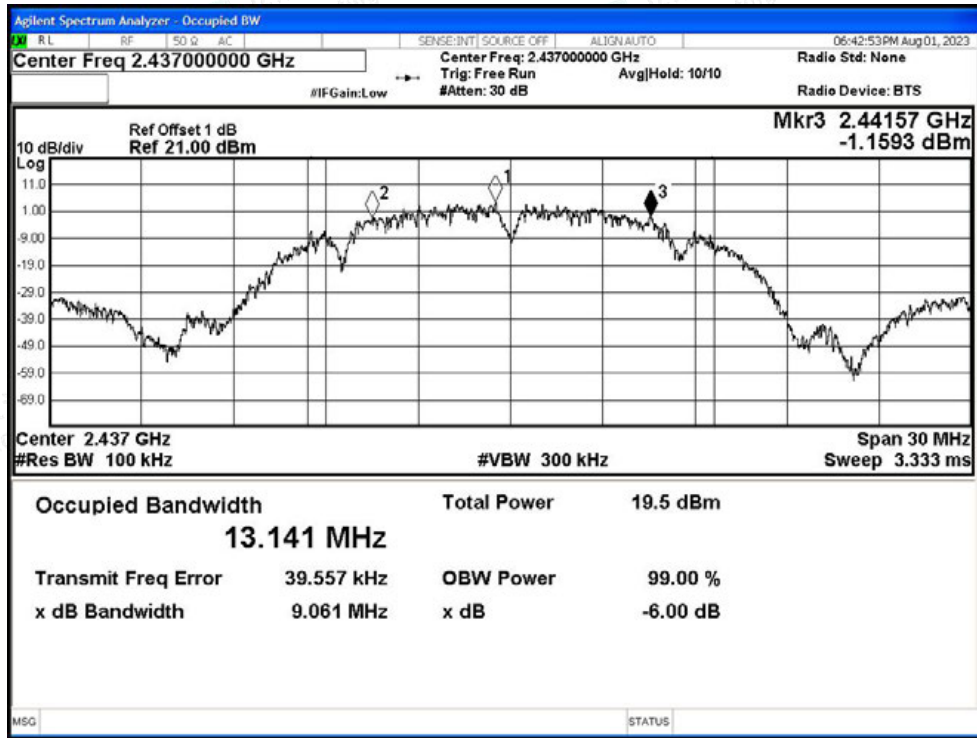


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant0

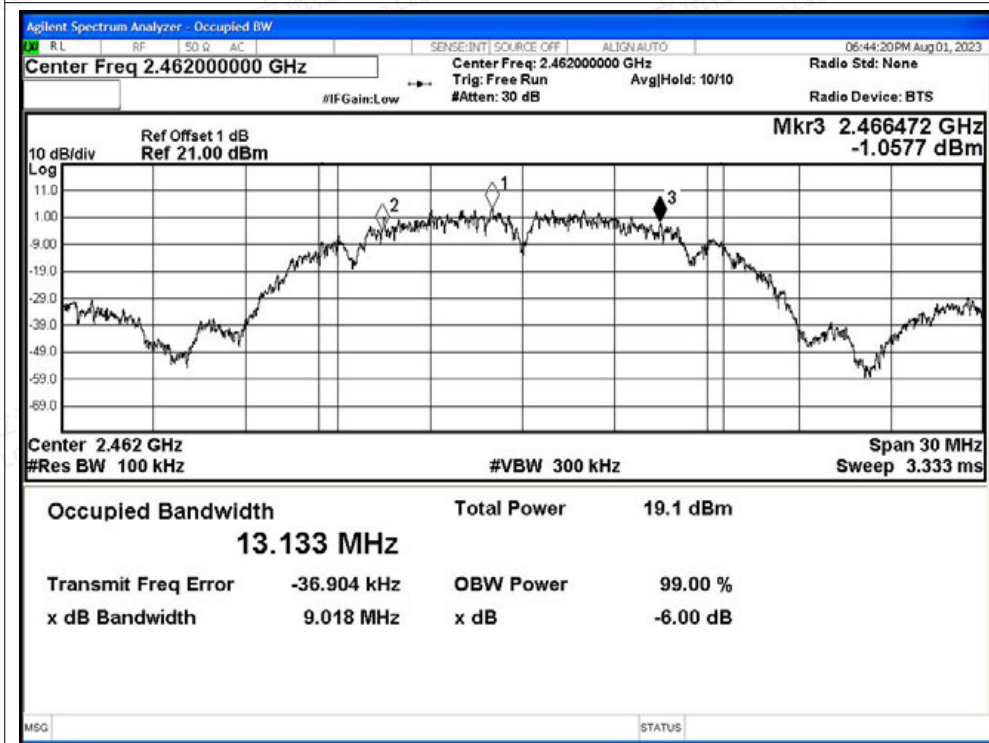


-6dB Bandwidth NVNT b 2437MHz Ant0

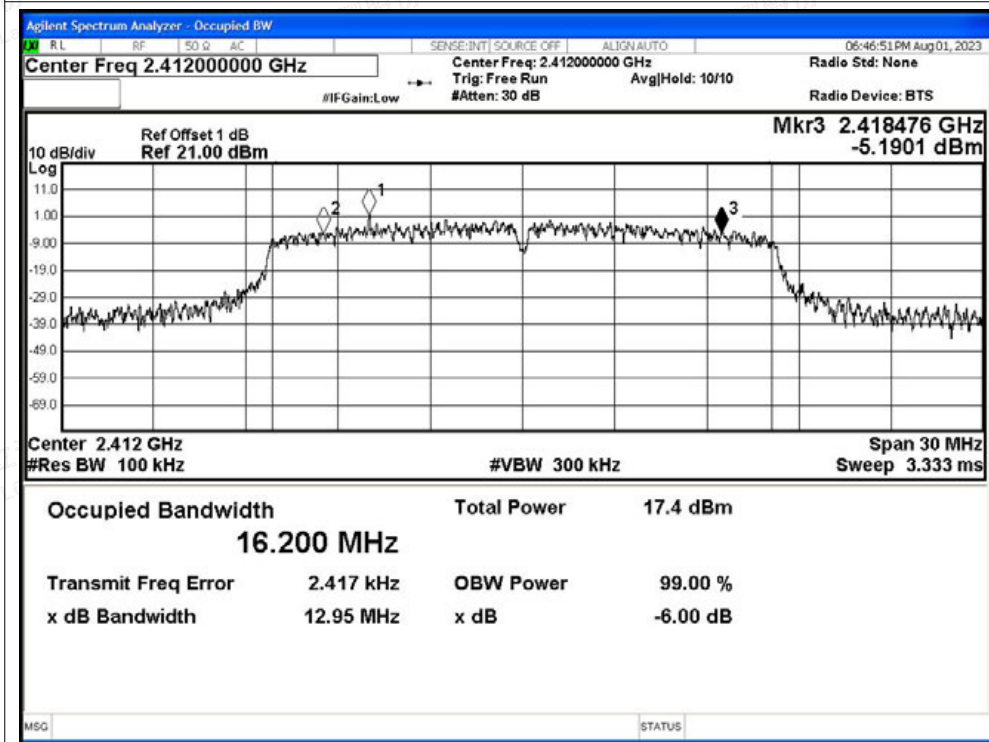




-6dB Bandwidth NVNT b 2462MHz Ant0

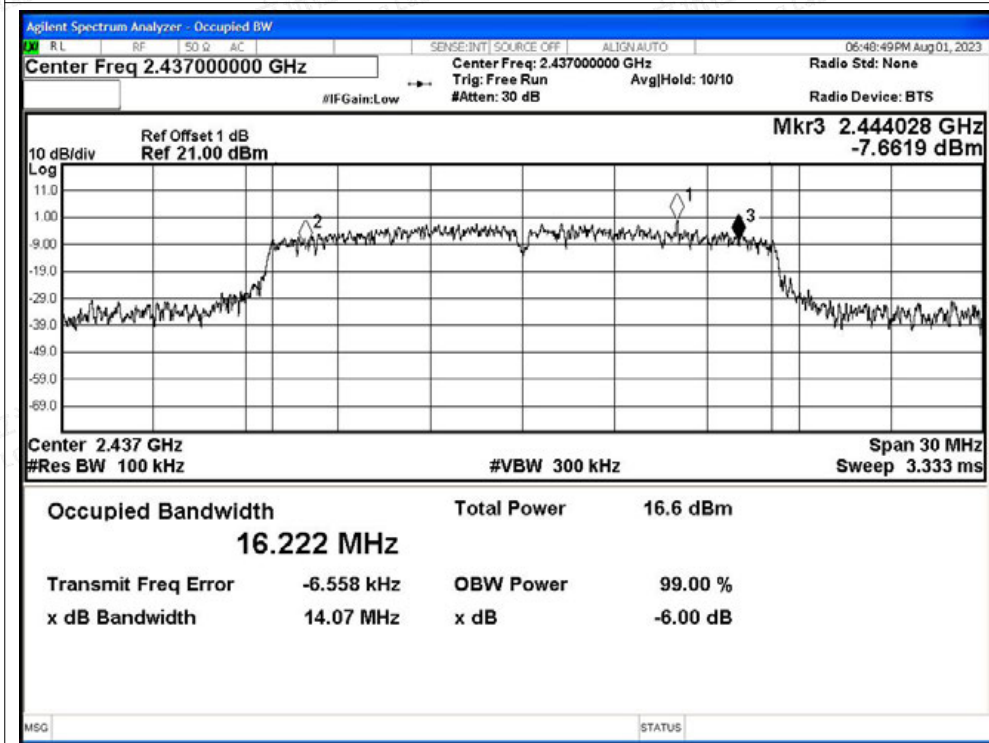


-6dB Bandwidth NVNT g 2412MHz Ant0

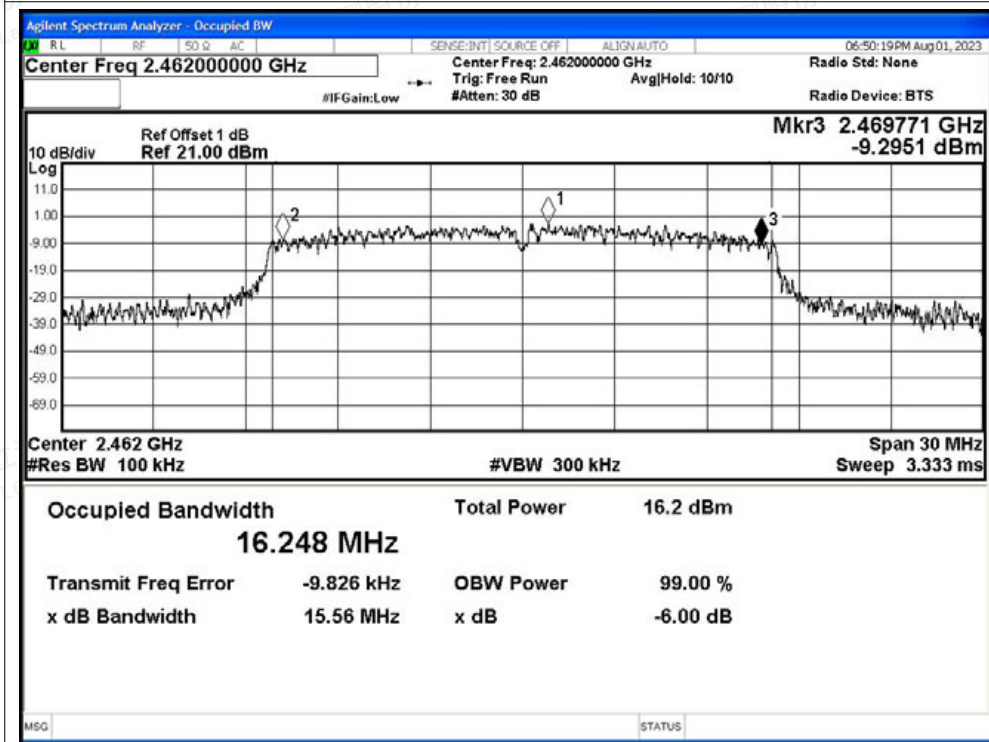




-6dB Bandwidth NVNT g 2437MHz Ant0



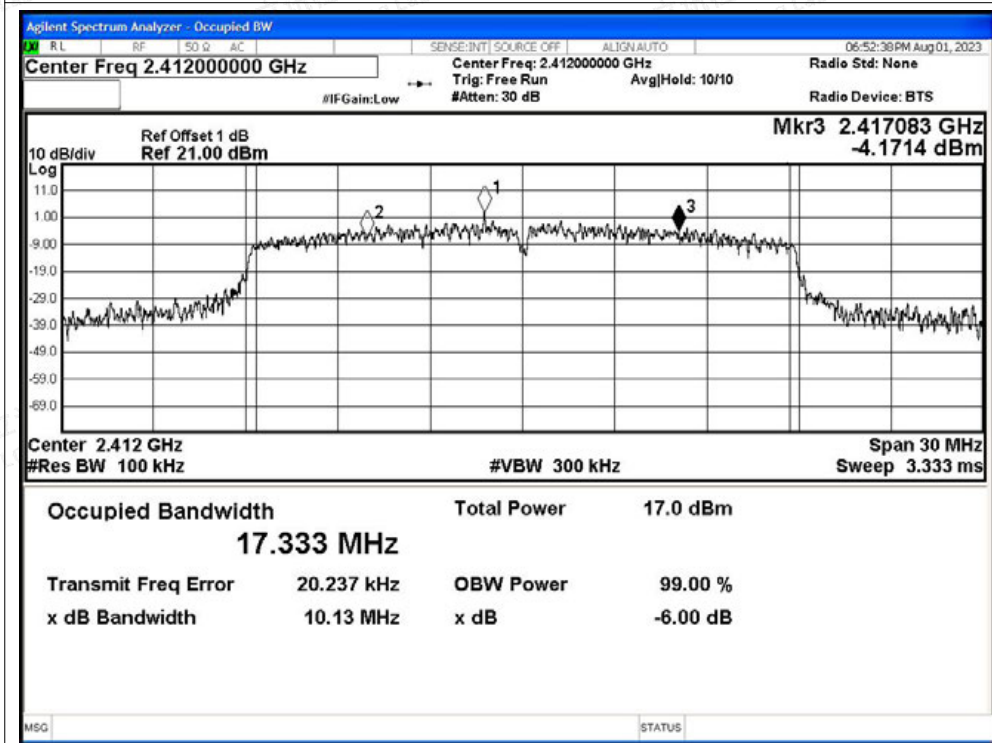
-6dB Bandwidth NVNT g 2462MHz Ant0



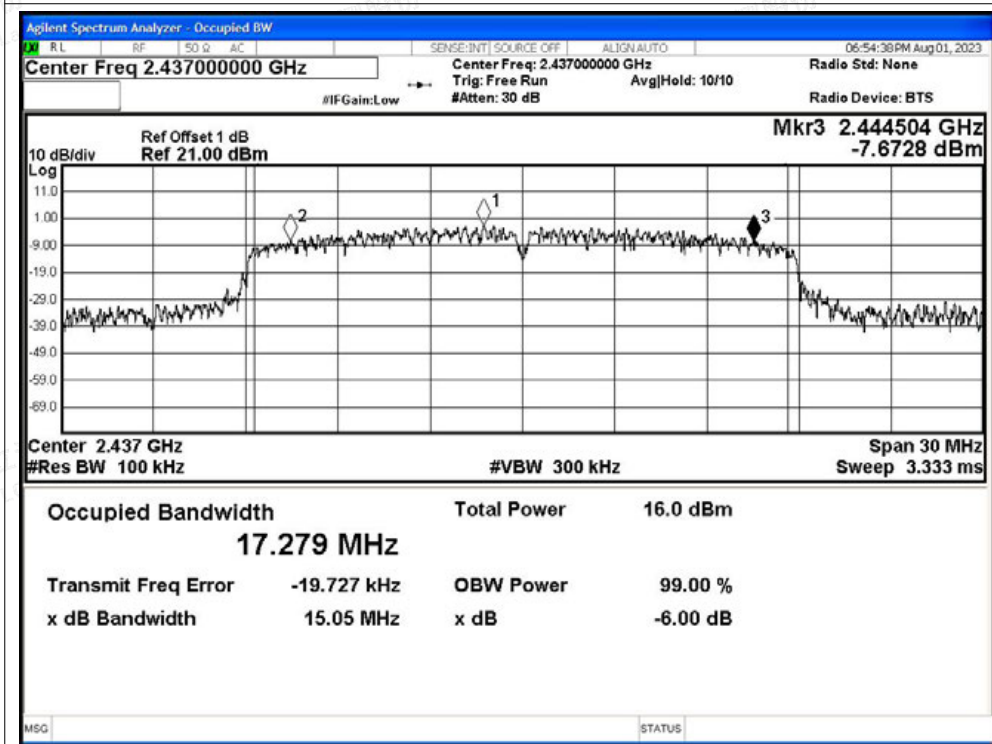




-6dB Bandwidth NVNT n20 2412MHz Ant0

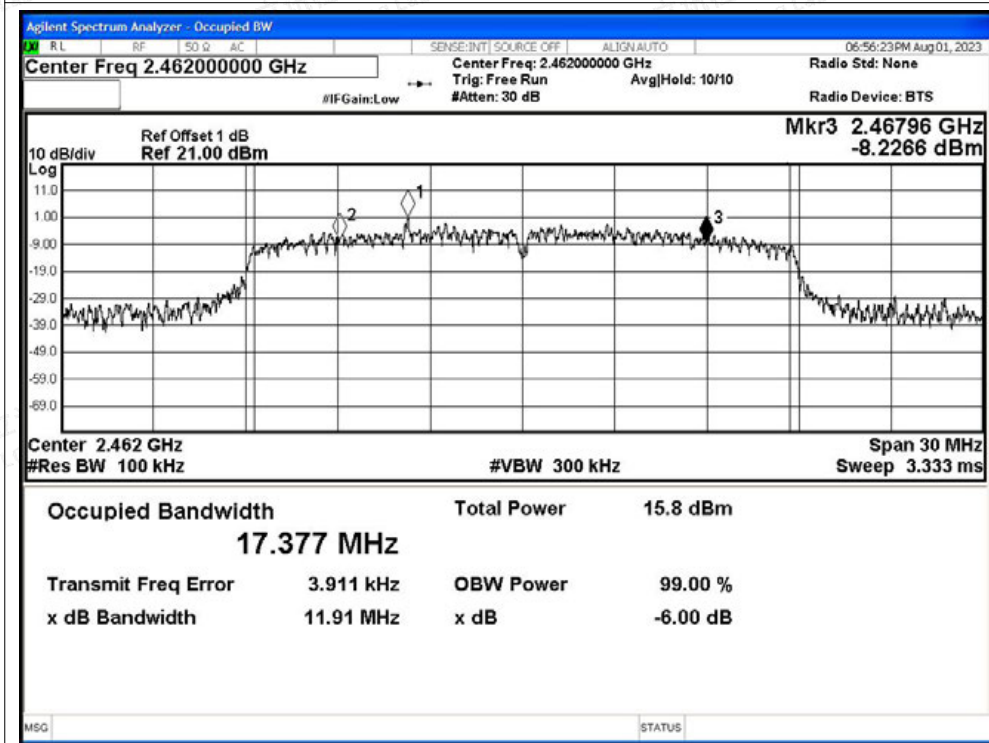


-6dB Bandwidth NVNT n20 2437MHz Ant0

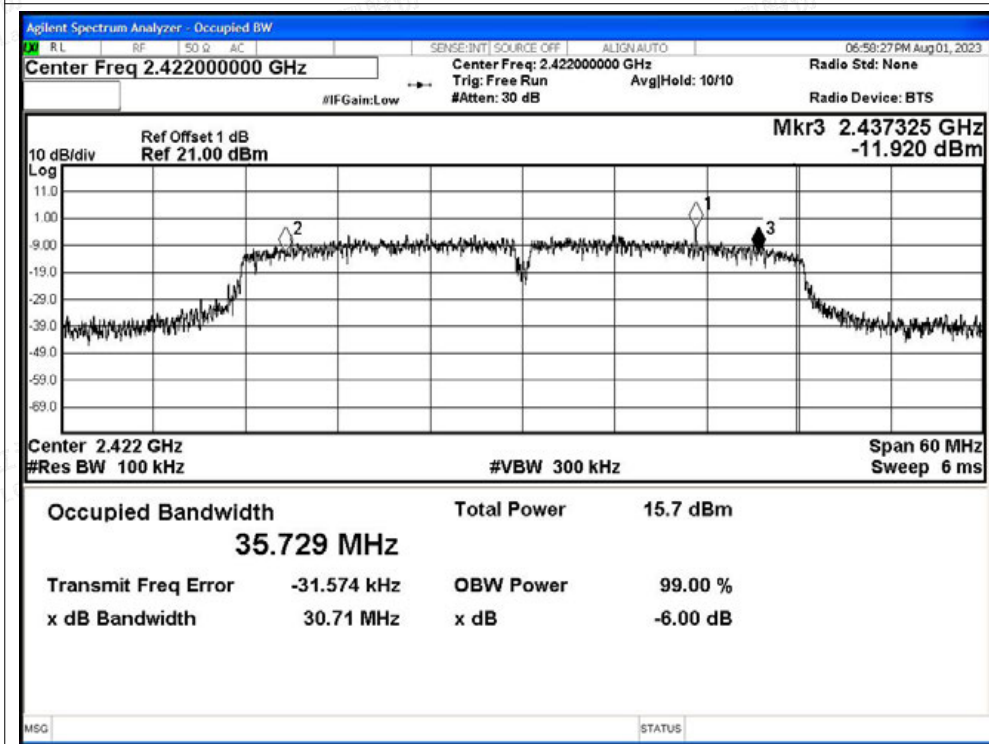




-6dB Bandwidth NVNT n20 2462MHz Ant0

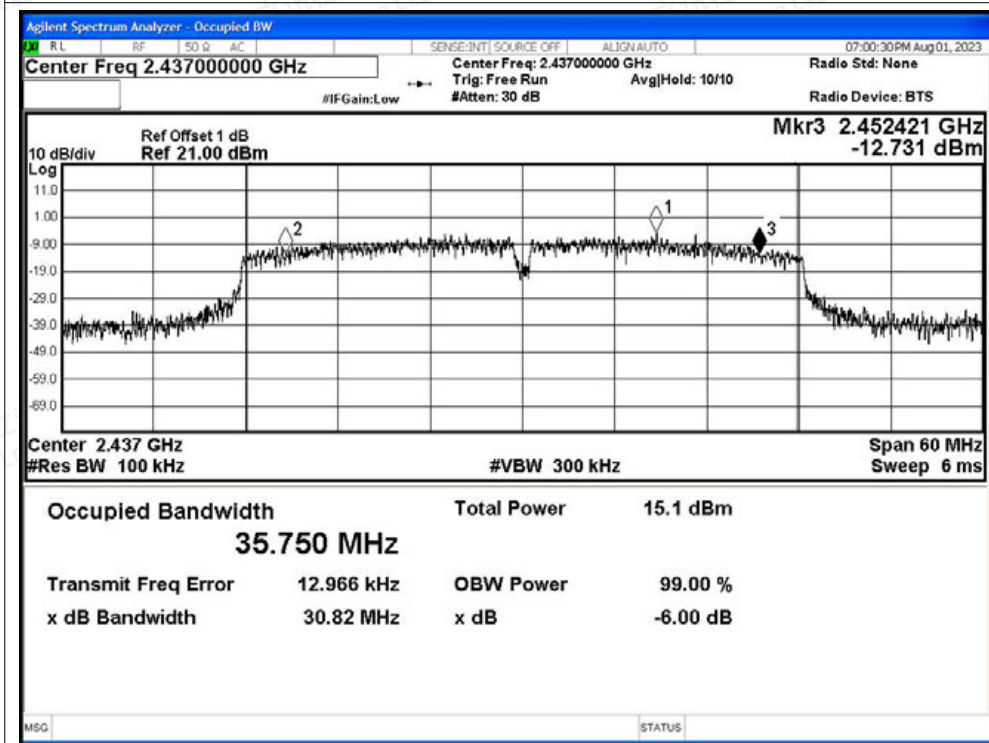


-6dB Bandwidth NVNT n40 2422MHz Ant0

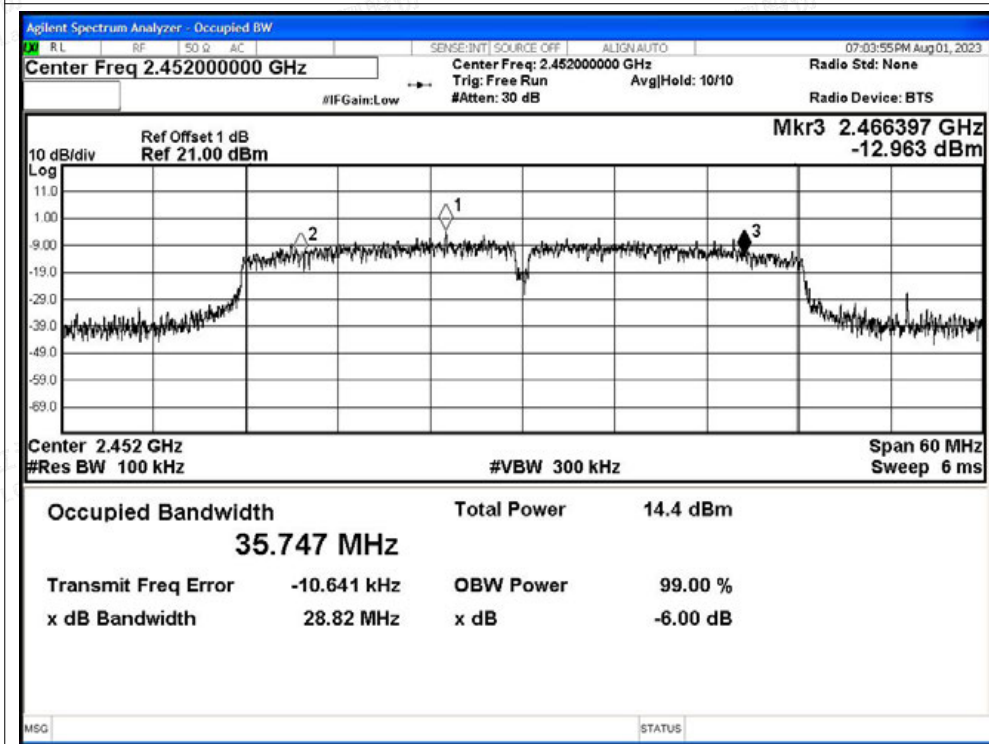




-6dB Bandwidth NVNT n40 2437MHz Ant0



-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	9.069	$\geq 0.5$	Pass
NVNT	b	2437	Ant1	7.873	$\geq 0.5$	Pass
NVNT	b	2462	Ant1	8.531	$\geq 0.5$	Pass
NVNT	g	2412	Ant1	13.946	$\geq 0.5$	Pass
NVNT	g	2437	Ant1	14.462	$\geq 0.5$	Pass
NVNT	g	2462	Ant1	11.435	$\geq 0.5$	Pass
NVNT	n20	2412	Ant1	13.819	$\geq 0.5$	Pass
NVNT	n20	2437	Ant1	11.91	$\geq 0.5$	Pass
NVNT	n20	2462	Ant1	12.603	$\geq 0.5$	Pass
NVNT	n40	2422	Ant1	31.279	$\geq 0.5$	Pass
NVNT	n40	2437	Ant1	31.36	$\geq 0.5$	Pass
NVNT	n40	2452	Ant1	31.337	$\geq 0.5$	Pass

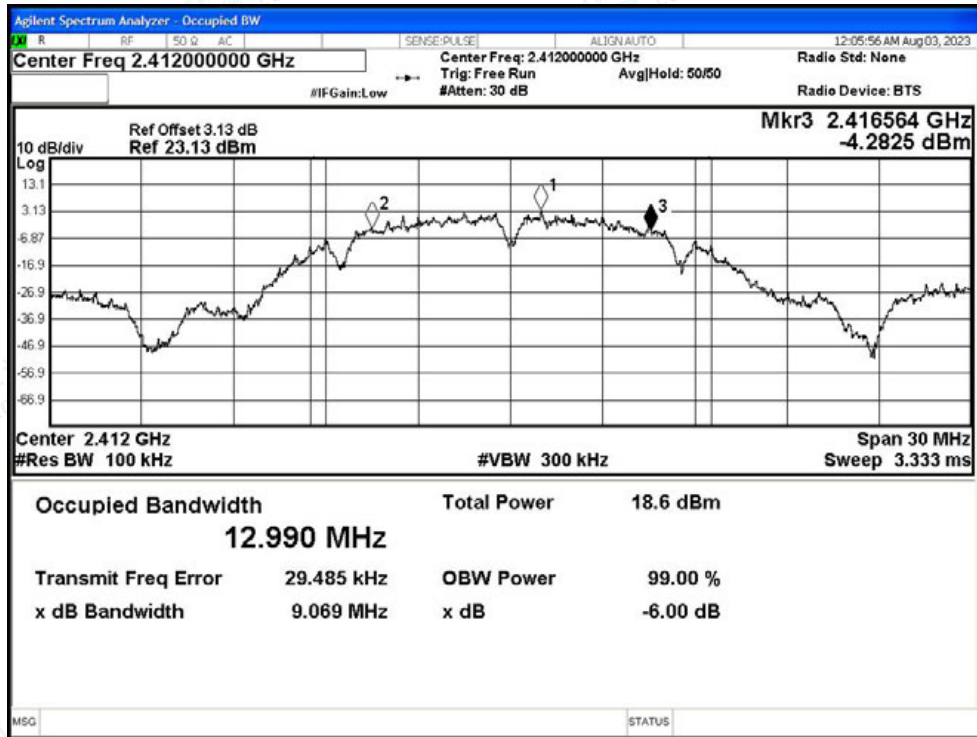


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Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

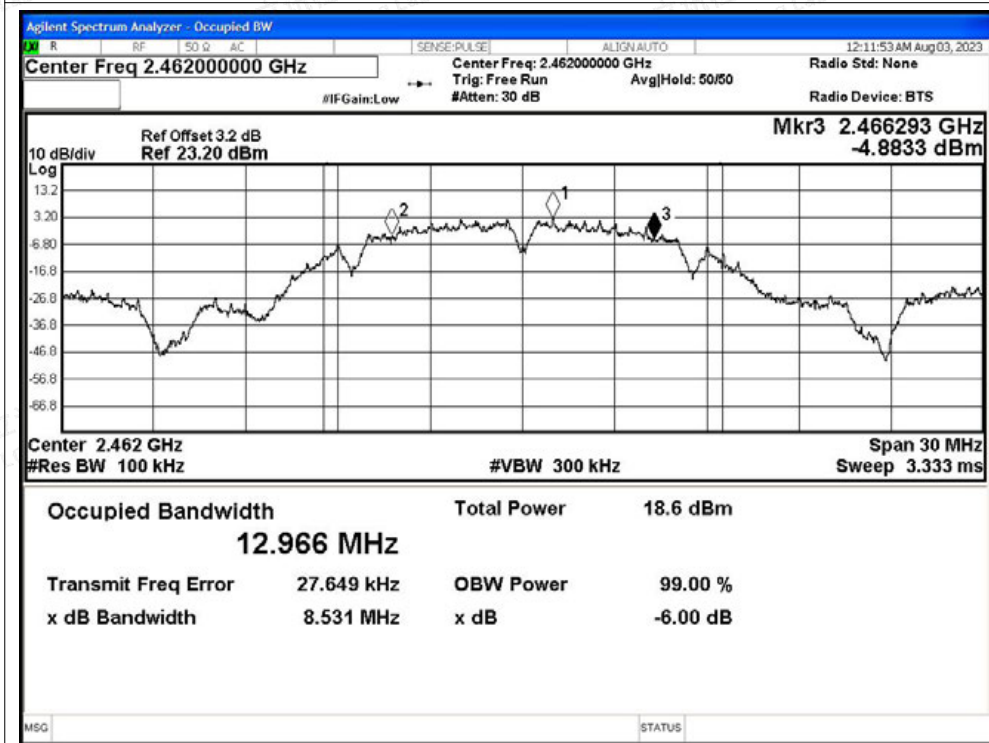


-6dB Bandwidth NVNT b 2437MHz Ant1

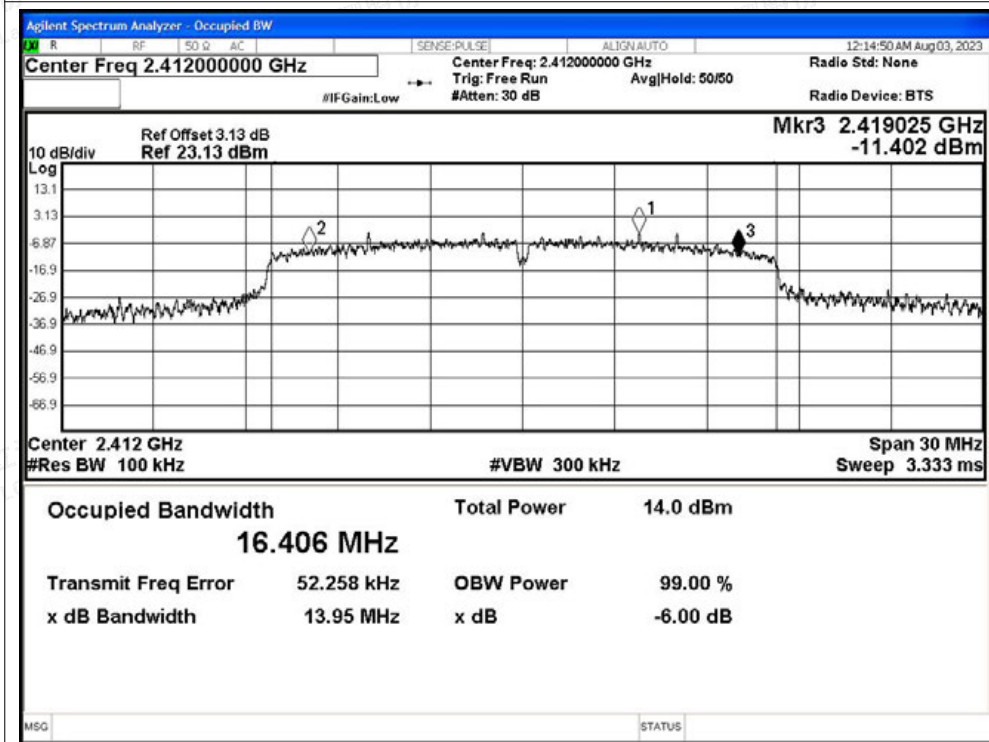




-6dB Bandwidth NVNT b 2462MHz Ant1

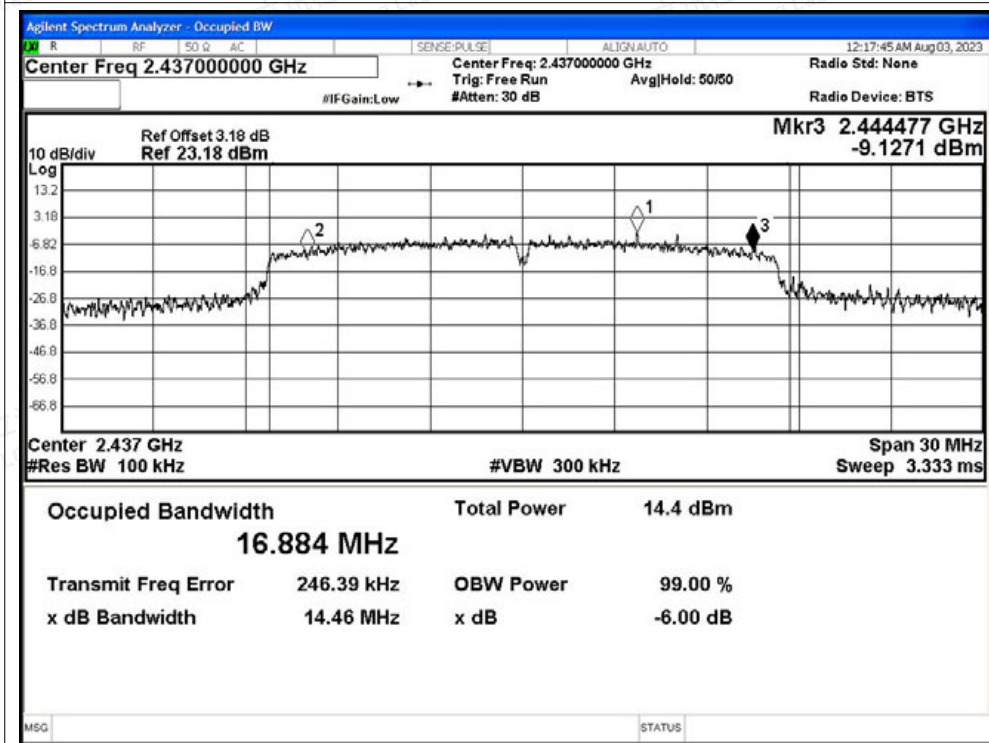


-6dB Bandwidth NVNT g 2412MHz Ant1

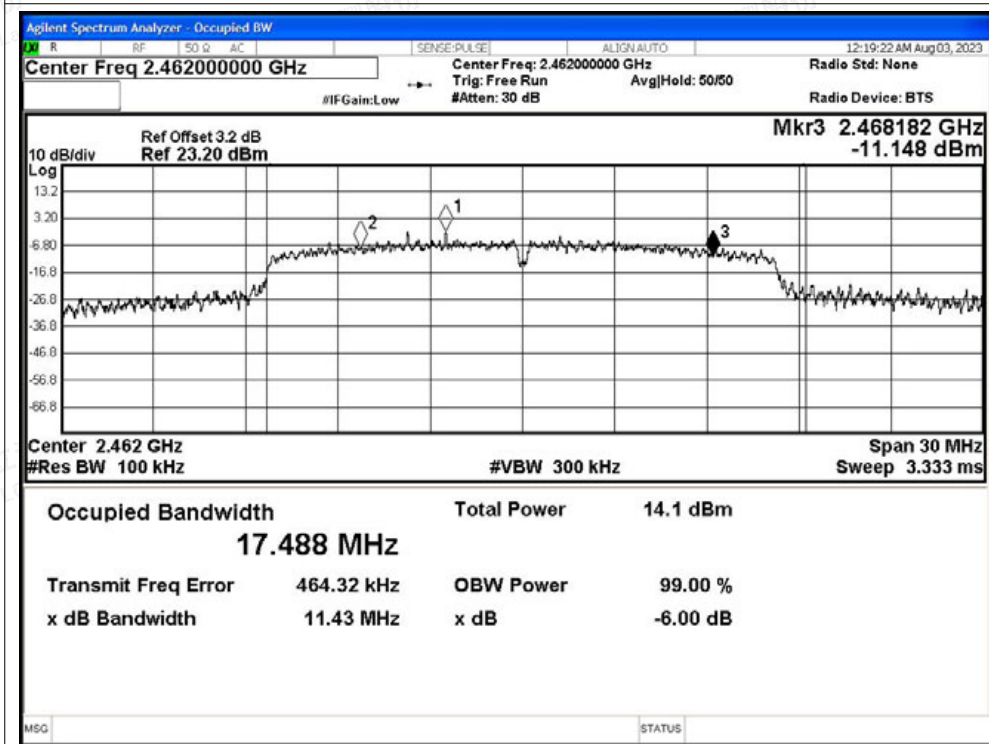




-6dB Bandwidth NVNT g 2437MHz Ant1

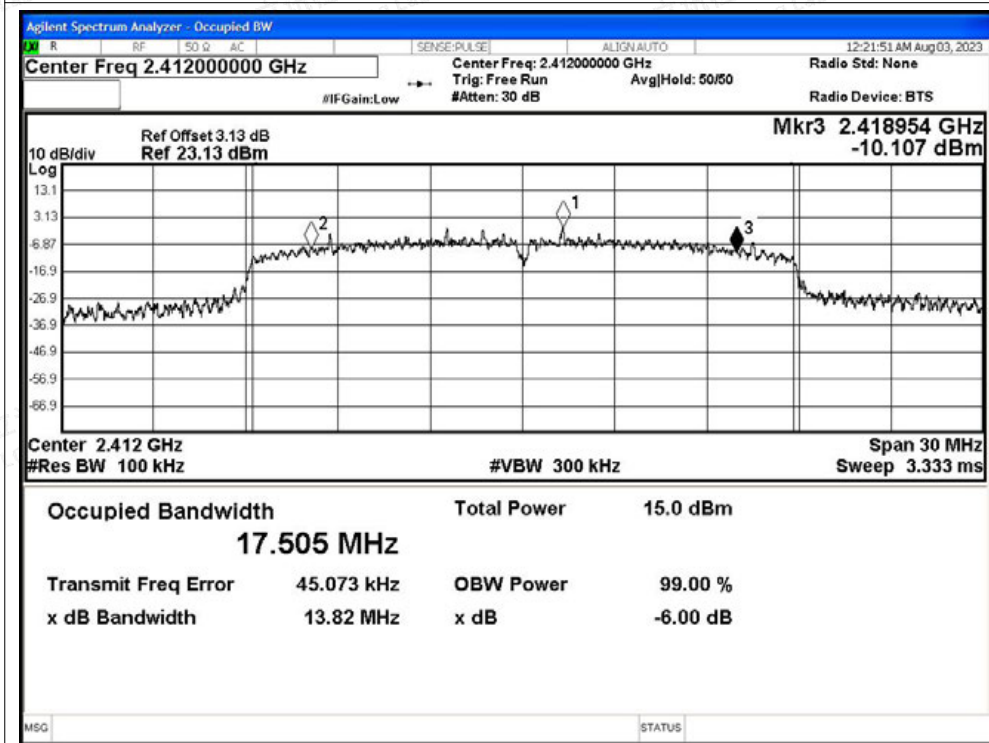


-6dB Bandwidth NVNT g 2462MHz Ant1

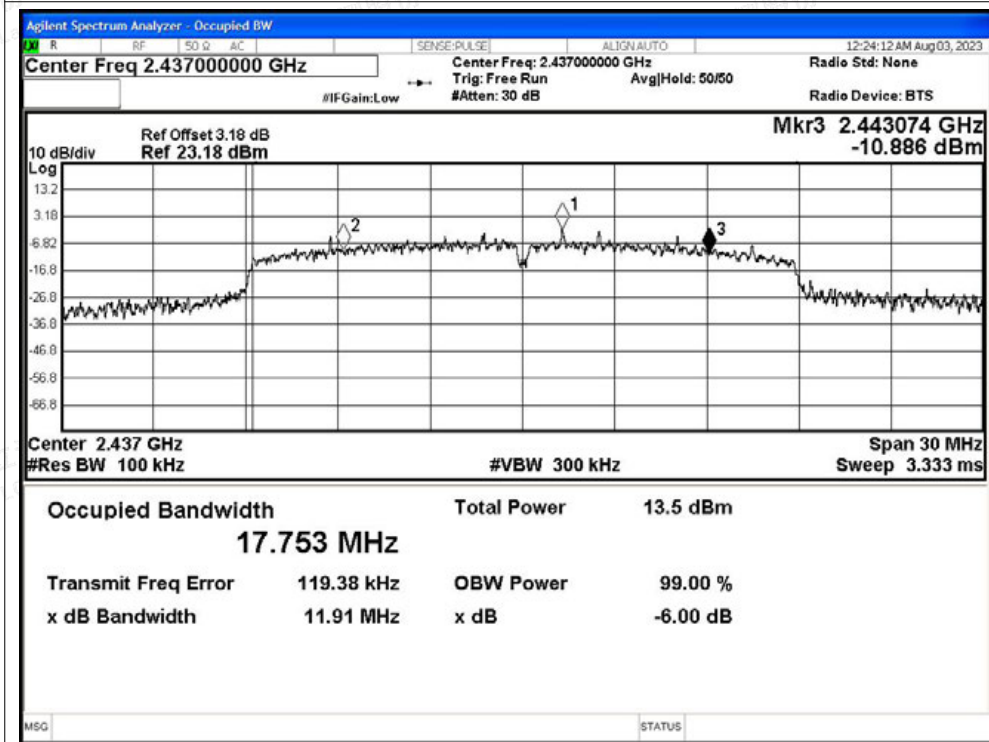




-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



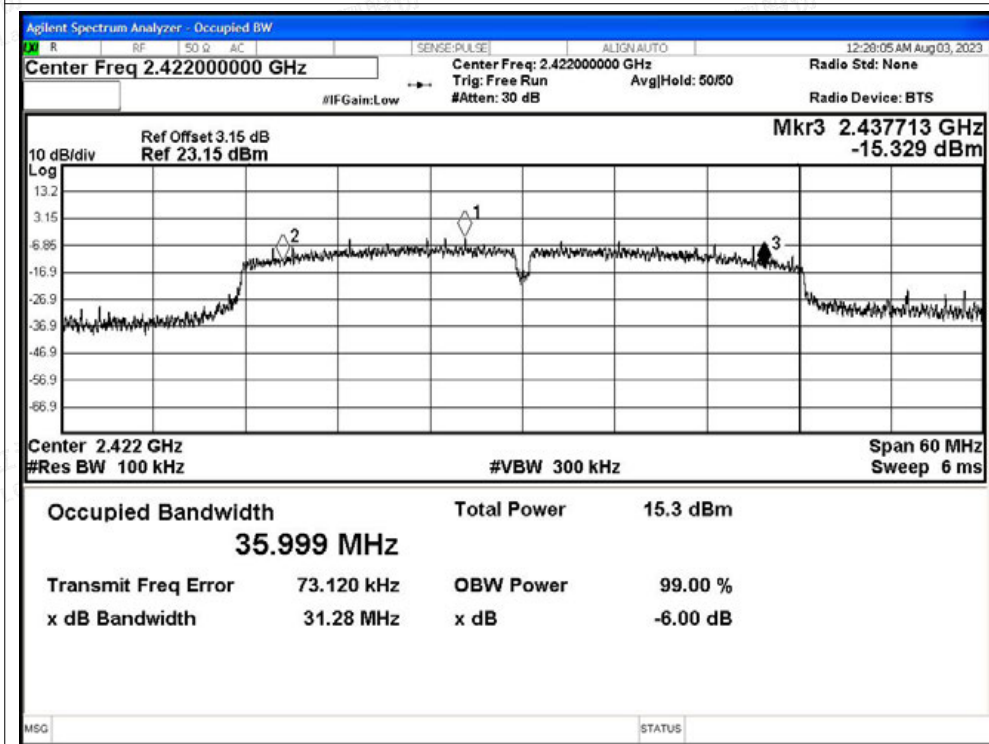




-6dB Bandwidth NVNT n20 2462MHz Ant1

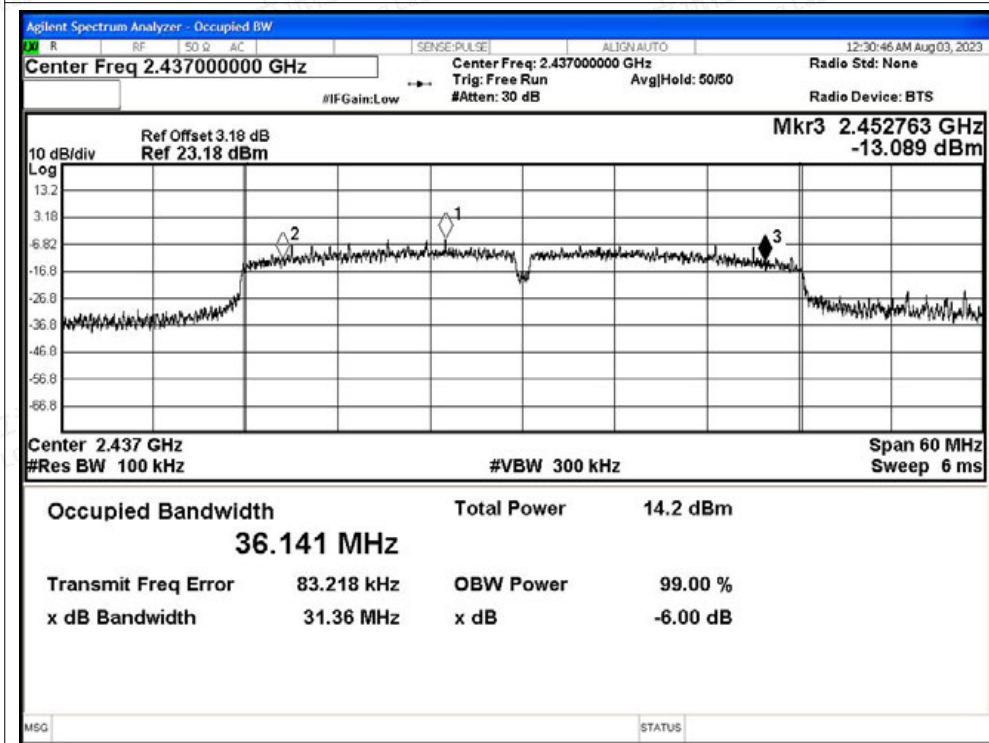


-6dB Bandwidth NVNT n40 2422MHz Ant1

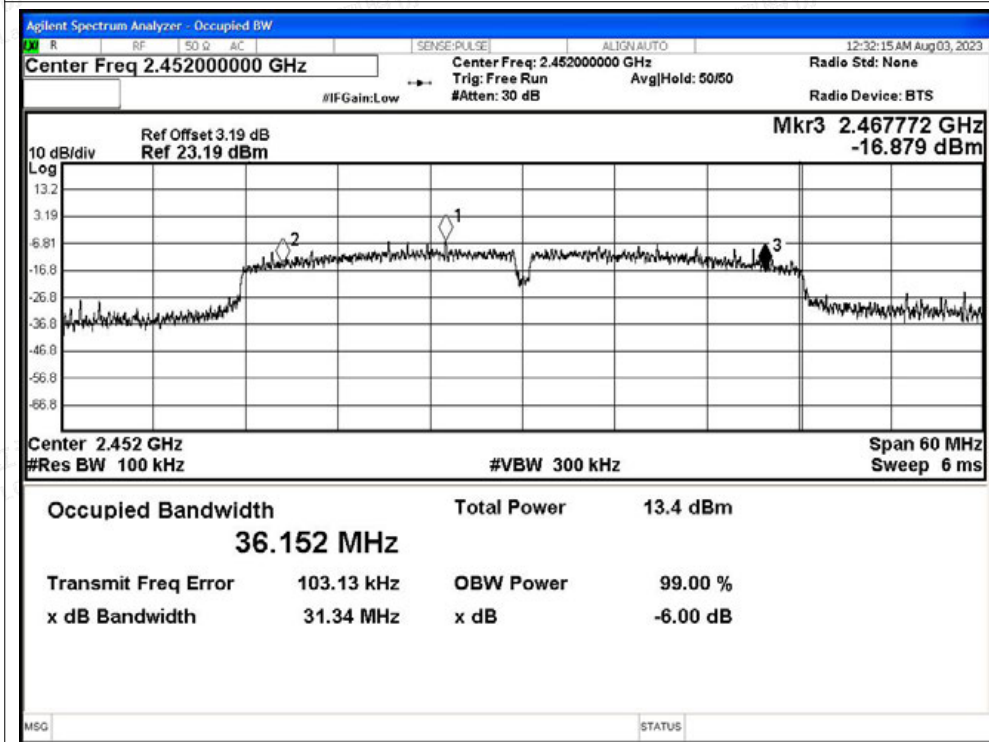




-6dB Bandwidth NVNT n40 2437MHz Ant1



-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	16.73	30	Pass
NVNT	b	2437	Ant0	15.93	30	Pass
NVNT	b	2462	Ant0	15.66	30	Pass
NVNT	g	2412	Ant0	15.95	30	Pass
NVNT	g	2437	Ant0	15.03	30	Pass
NVNT	g	2462	Ant0	14.92	30	Pass
NVNT	n20	2412	Ant0	15.7	30	Pass
NVNT	n20	2437	Ant0	14.81	30	Pass
NVNT	n20	2462	Ant0	16.24	30	Pass
NVNT	n40	2422	Ant0	14.33	30	Pass
NVNT	n40	2437	Ant0	13.76	30	Pass
NVNT	n40	2452	Ant0	12.95	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	13.57	30	Pass
NVNT	b	2437	Ant1	14.05	30	Pass
NVNT	b	2462	Ant1	13.41	30	Pass
NVNT	g	2412	Ant1	11.3	30	Pass
NVNT	g	2437	Ant1	11.83	30	Pass
NVNT	g	2462	Ant1	11.52	30	Pass
NVNT	n20	2412	Ant1	12.26	30	Pass
NVNT	n20	2437	Ant1	10.79	30	Pass
NVNT	n20	2462	Ant1	12.23	30	Pass
NVNT	n40	2422	Ant1	12.38	30	Pass
NVNT	n40	2437	Ant1	11.3	30	Pass
NVNT	n40	2452	Ant1	10.52	30	Pass

#### MIMO

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	2412	15.7	12.26	17.32	30	Pass
NVNT	n20	2437	14.81	10.79	16.26	30	Pass
NVNT	n20	2462	16.24	12.23	17.69	30	Pass
NVNT	n40	2422	14.33	12.38	16.47	30	Pass
NVNT	n40	2437	13.76	11.3	15.71	30	Pass
NVNT	n40	2452	12.95	10.52	14.91	30	Pass



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### A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant0	-8.44	8	Pass
NVNT	b	2437	Ant0	-9.34	8	Pass
NVNT	b	2462	Ant0	-8.69	8	Pass
NVNT	g	2412	Ant0	-11.35	8	Pass
NVNT	g	2437	Ant0	-11.85	8	Pass
NVNT	g	2462	Ant0	-11.68	8	Pass
NVNT	n20	2412	Ant0	-12.4	8	Pass
NVNT	n20	2437	Ant0	-12.64	8	Pass
NVNT	n20	2462	Ant0	-13.27	8	Pass
NVNT	n40	2422	Ant0	-16.62	8	Pass
NVNT	n40	2437	Ant0	-17.4	8	Pass
NVNT	n40	2452	Ant0	-17.29	8	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-11.04	8	Pass
NVNT	b	2437	Ant1	-10.35	8	Pass
NVNT	b	2462	Ant1	-11.14	8	Pass
NVNT	g	2412	Ant1	-15.96	8	Pass
NVNT	g	2437	Ant1	-15.35	8	Pass
NVNT	g	2462	Ant1	-15.48	8	Pass
NVNT	n20	2412	Ant1	-15.93	8	Pass
NVNT	n20	2437	Ant1	-16.62	8	Pass
NVNT	n20	2462	Ant1	-17.16	8	Pass
NVNT	n40	2422	Ant1	-18.6	8	Pass
NVNT	n40	2437	Ant1	-20.12	8	Pass
NVNT	n40	2452	Ant1	-19.31	8	Pass

#### MIMO

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	2412	-12.4	-15.93	-10.81	8	Pass
NVNT	n20	2437	-12.64	-16.62	-11.18	8	Pass
NVNT	n20	2462	-13.27	-17.16	-11.78	8	Pass
NVNT	n40	2422	-16.62	-18.6	-14.49	8	Pass
NVNT	n40	2437	-17.4	-20.12	-15.54	8	Pass
NVNT	n40	2452	-17.29	-19.31	-15.17	8	Pass

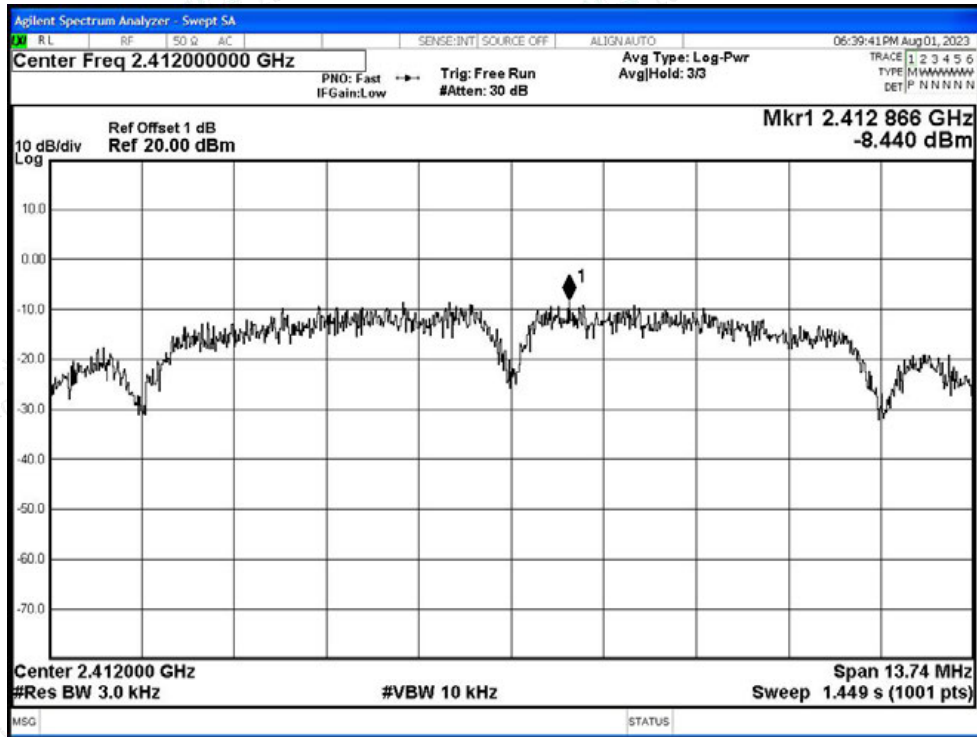


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 Scan code to check authenticity

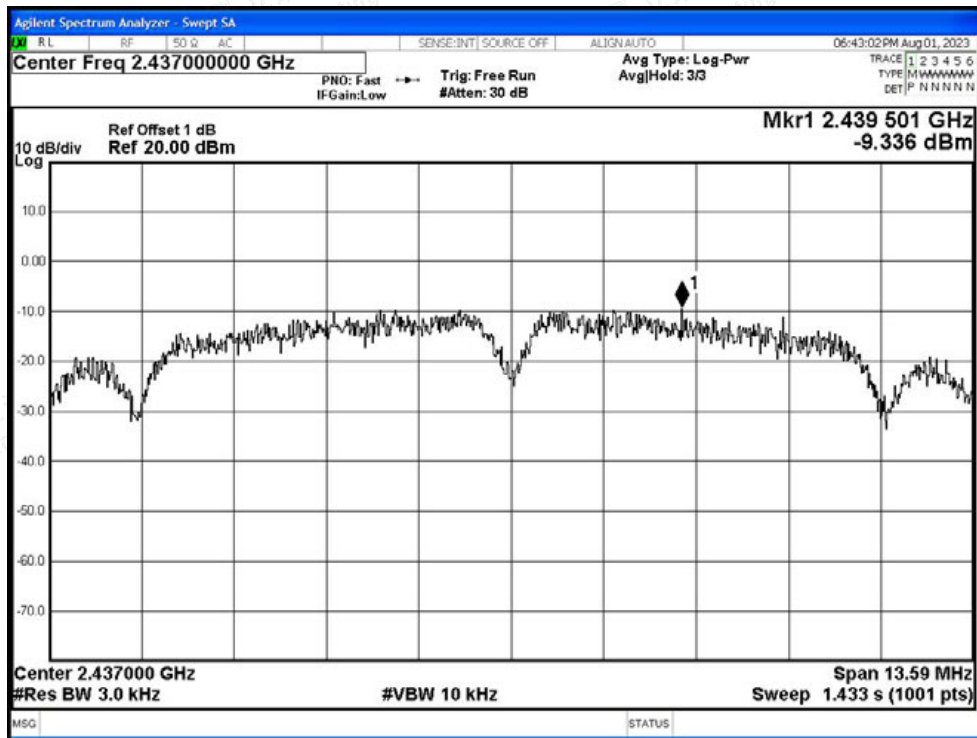


Test Graphs

PSD NVNT b 2412MHz Ant0



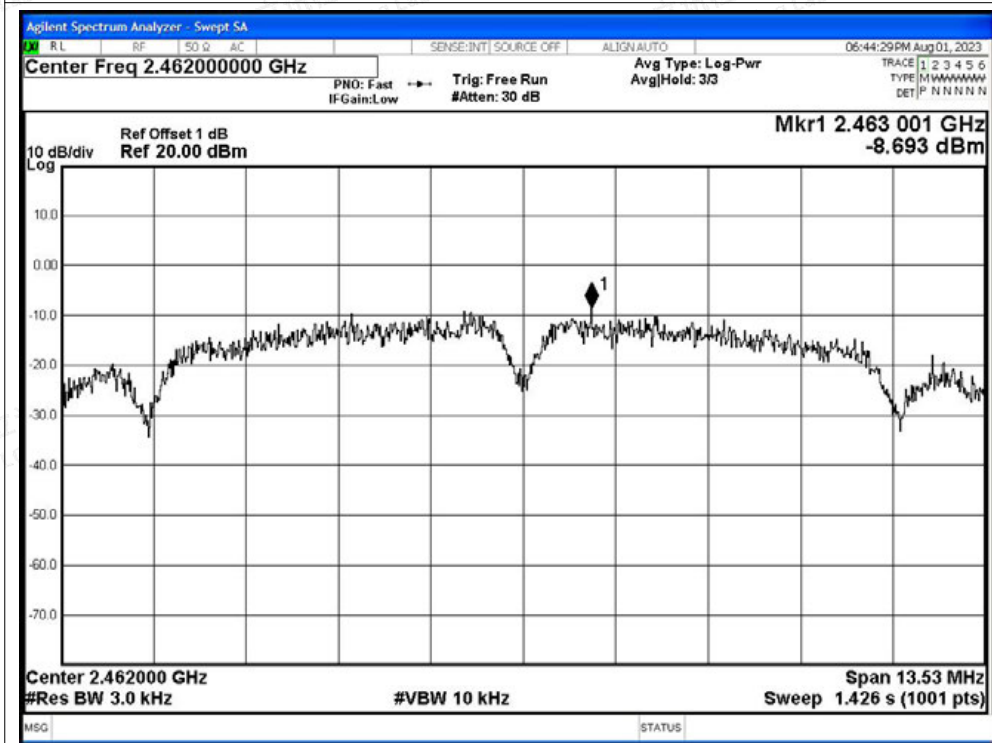
PSD NVNT b 2437MHz Ant0



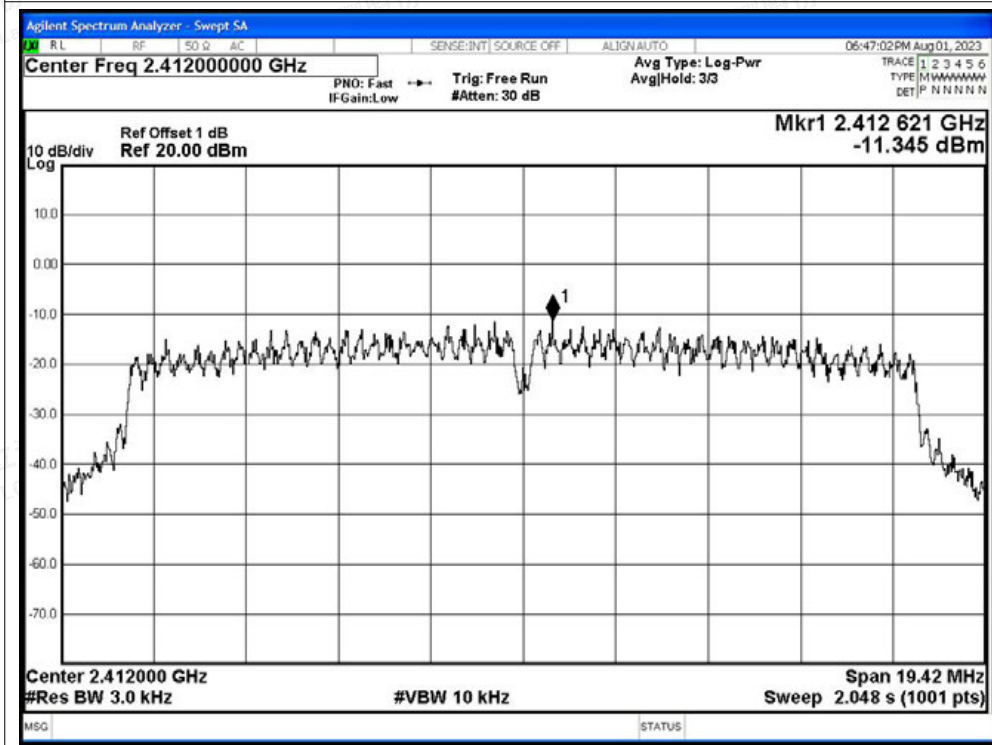




PSD NVNT b 2462MHz Ant0

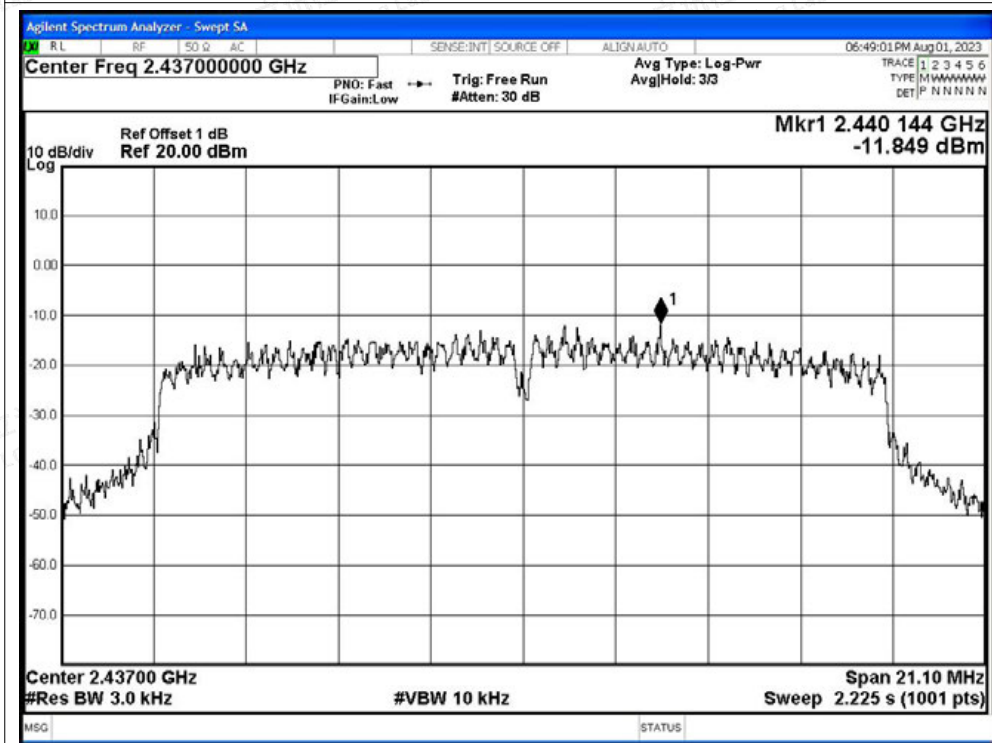


PSD NVNT g 2412MHz Ant0

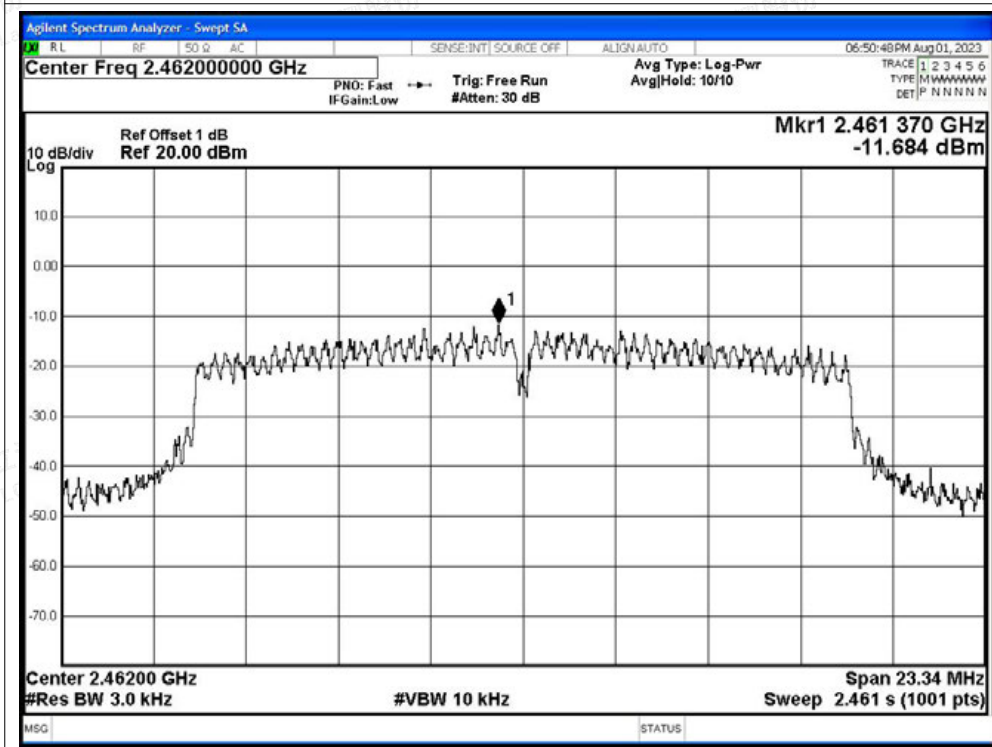




PSD NVNT g 2437MHz Ant0

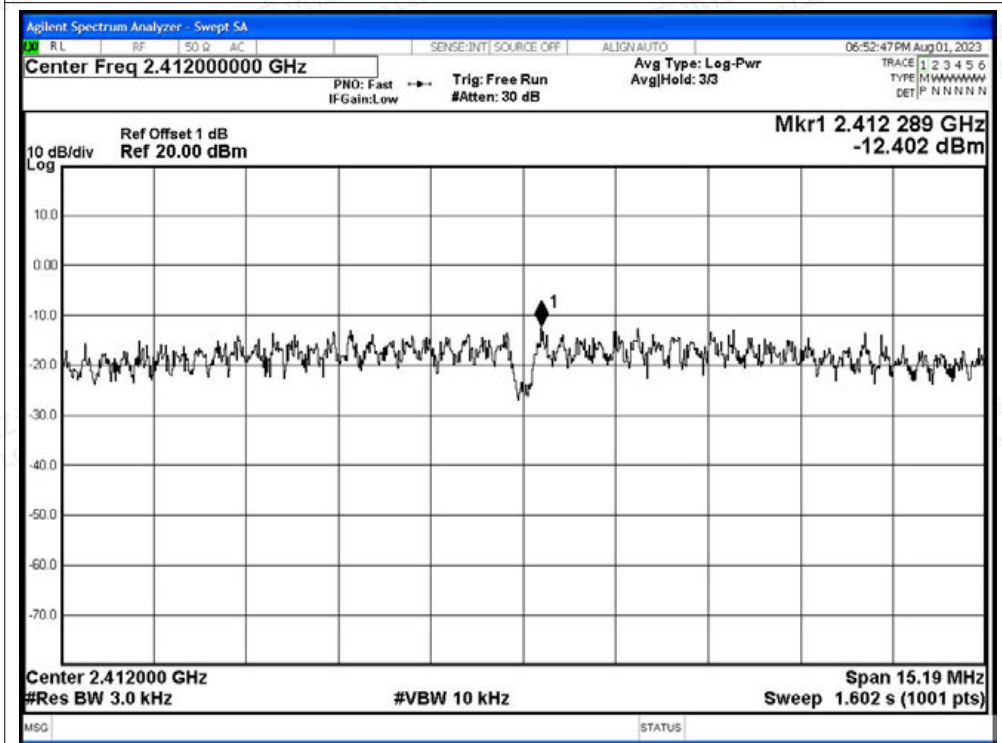


PSD NVNT g 2462MHz Ant0

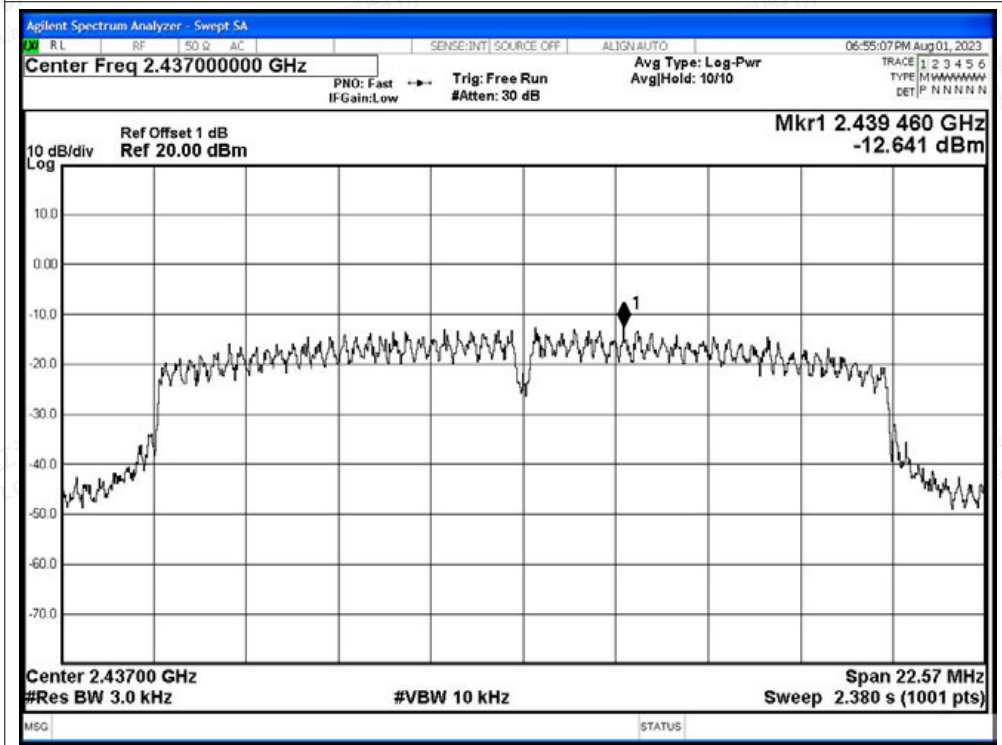




PSD NVNT n20 2412MHz Ant0

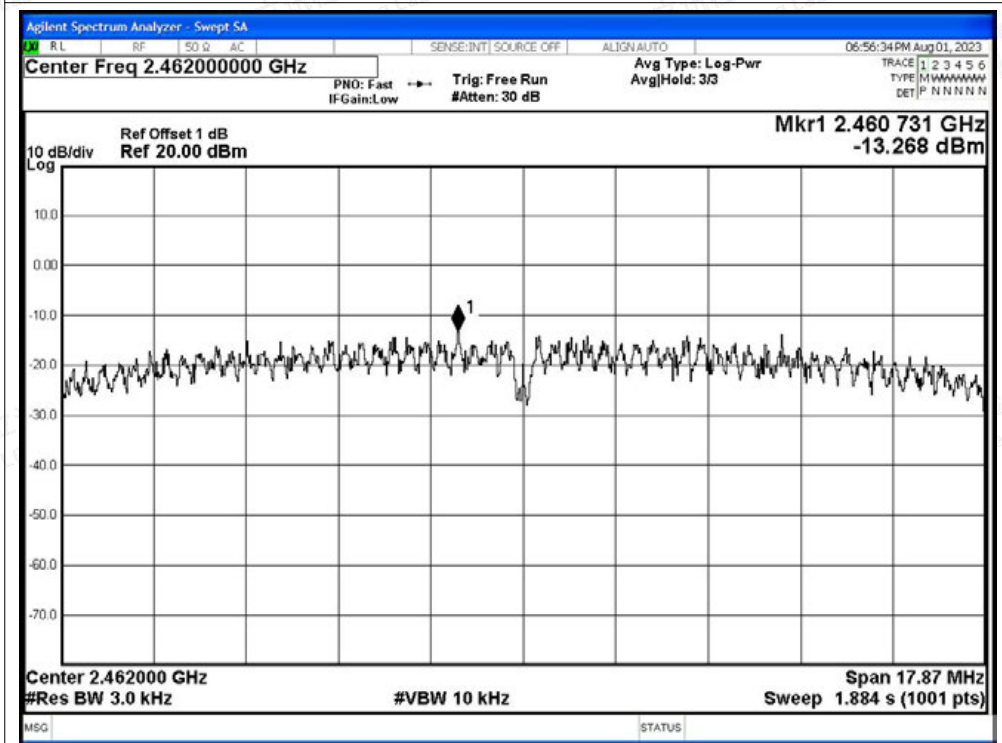


PSD NVNT n20 2437MHz Ant0

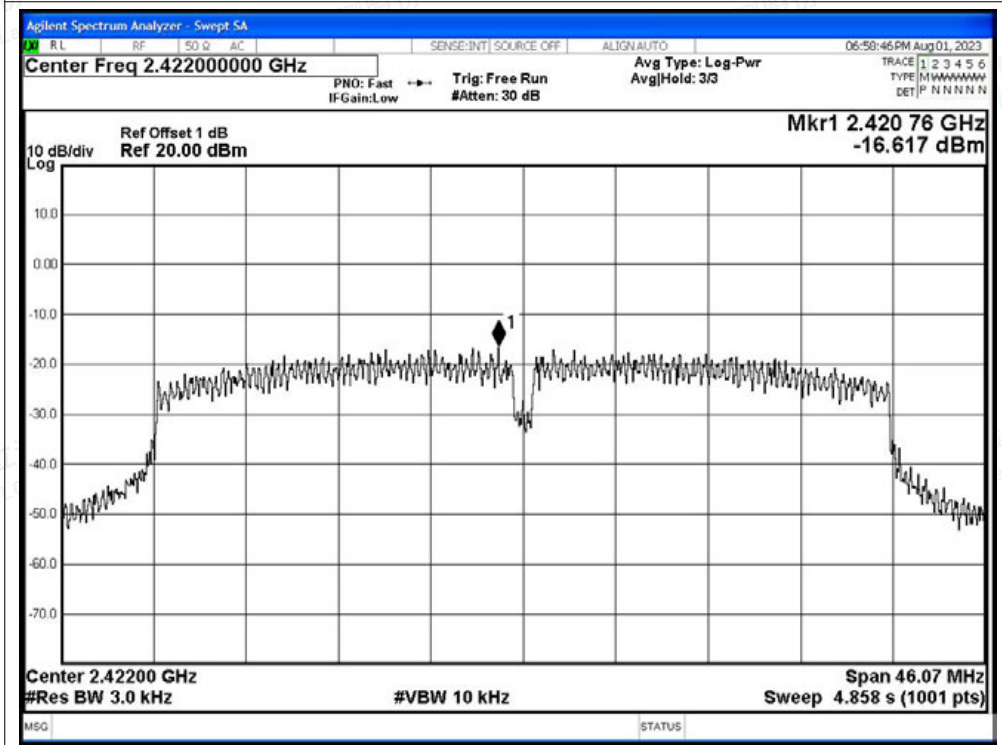




PSD NVNT n20 2462MHz Ant0

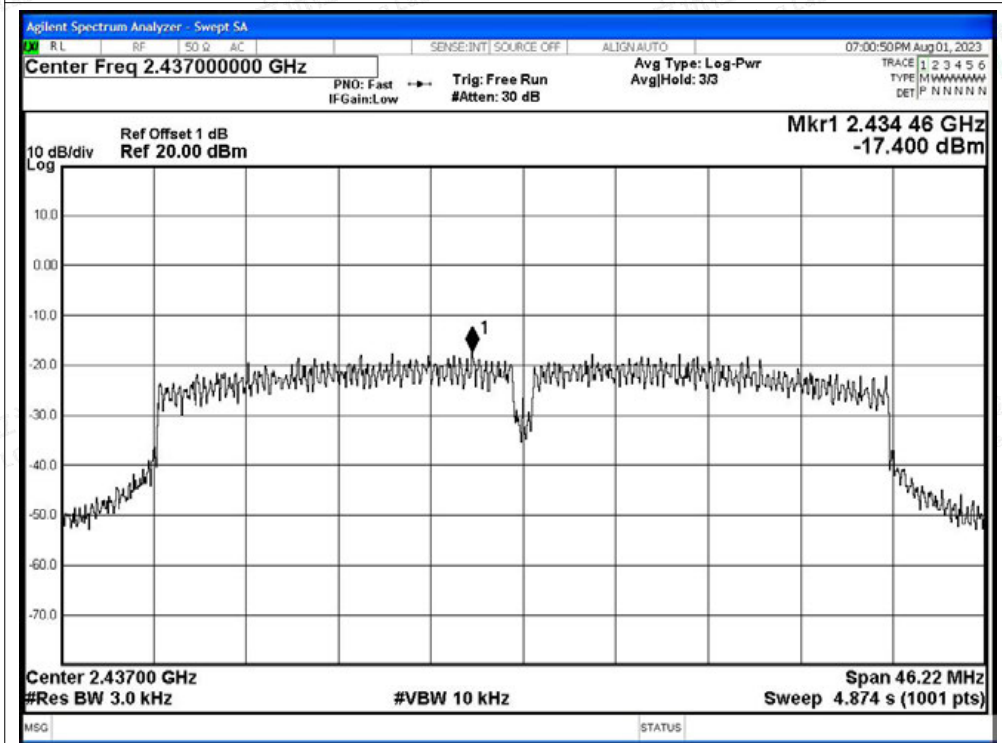


PSD NVNT n40 2422MHz Ant0

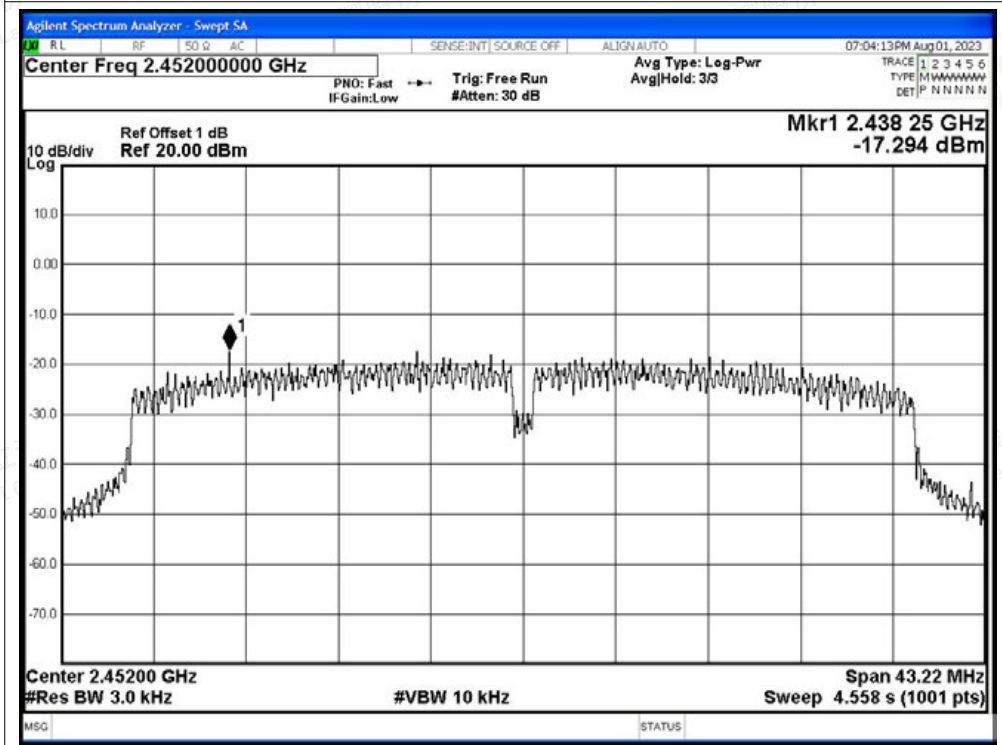




PSD NVNT n40 2437MHz Ant0



PSD NVNT n40 2452MHz Ant0

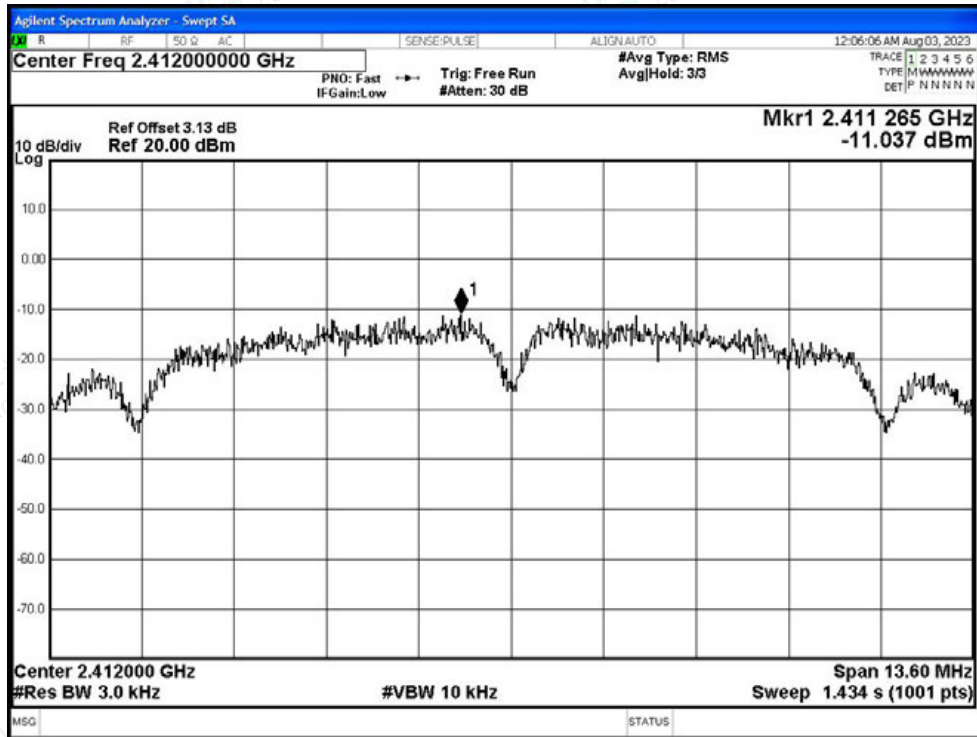




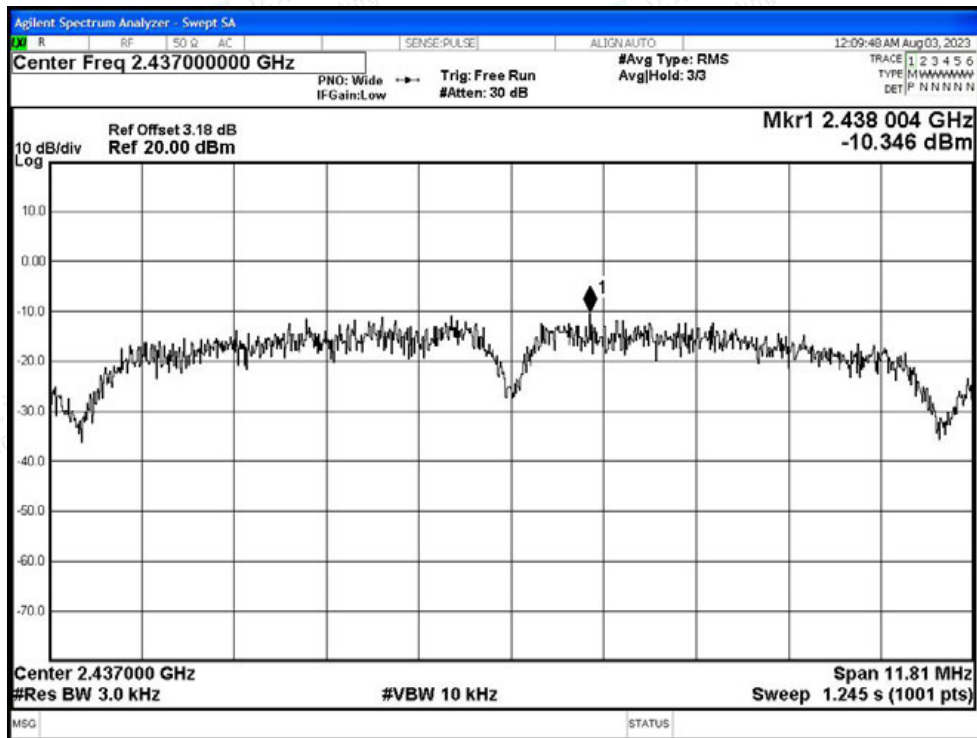


Test Graphs

PSD NVNT b 2412MHz Ant1

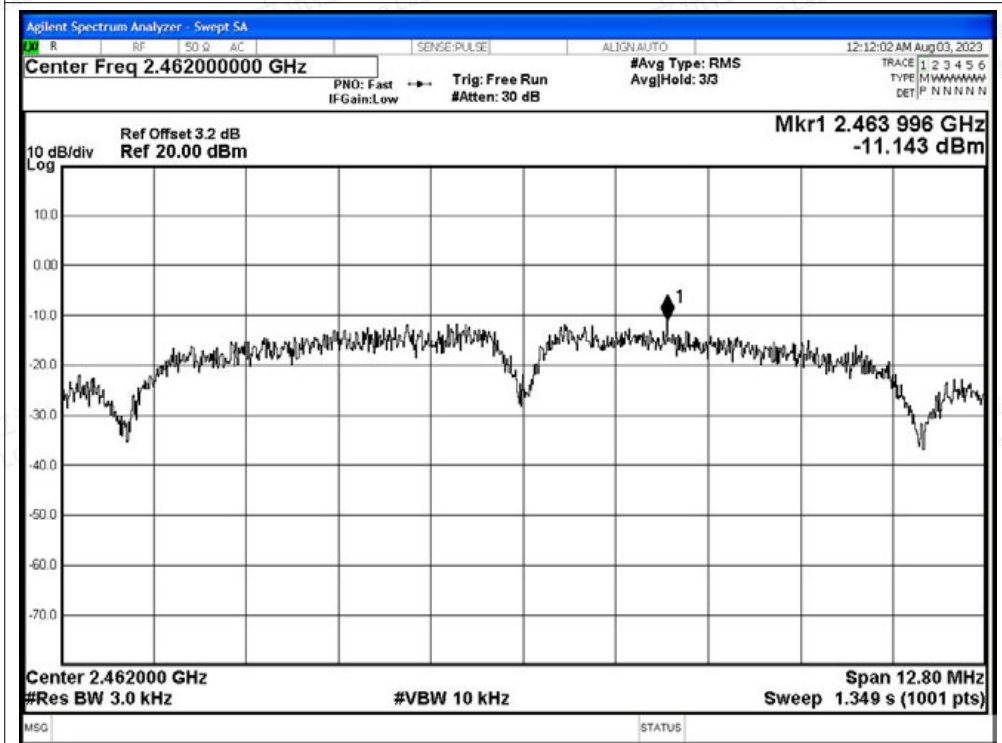


PSD NVNT b 2437MHz Ant1

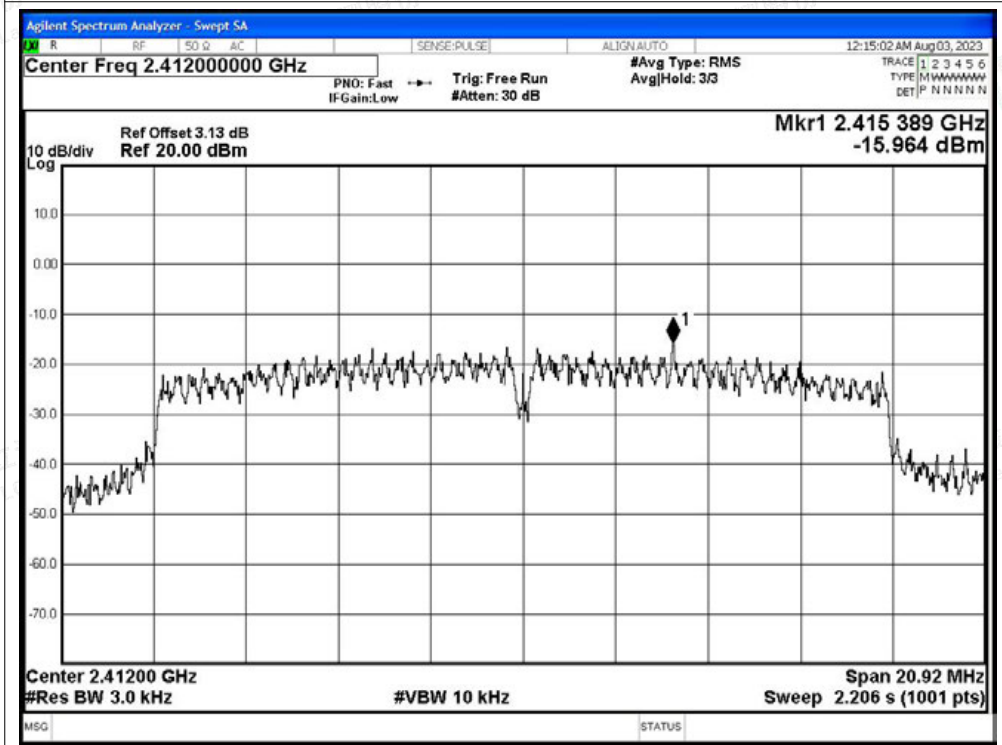




PSD NVNT b 2462MHz Ant1

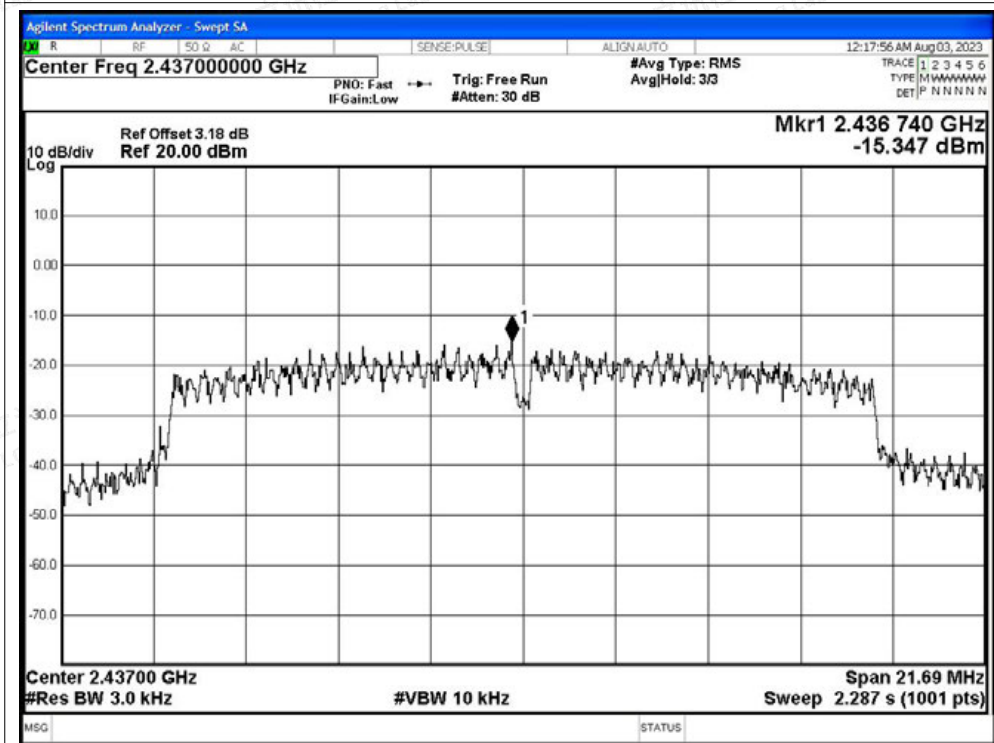


PSD NVNT g 2412MHz Ant1

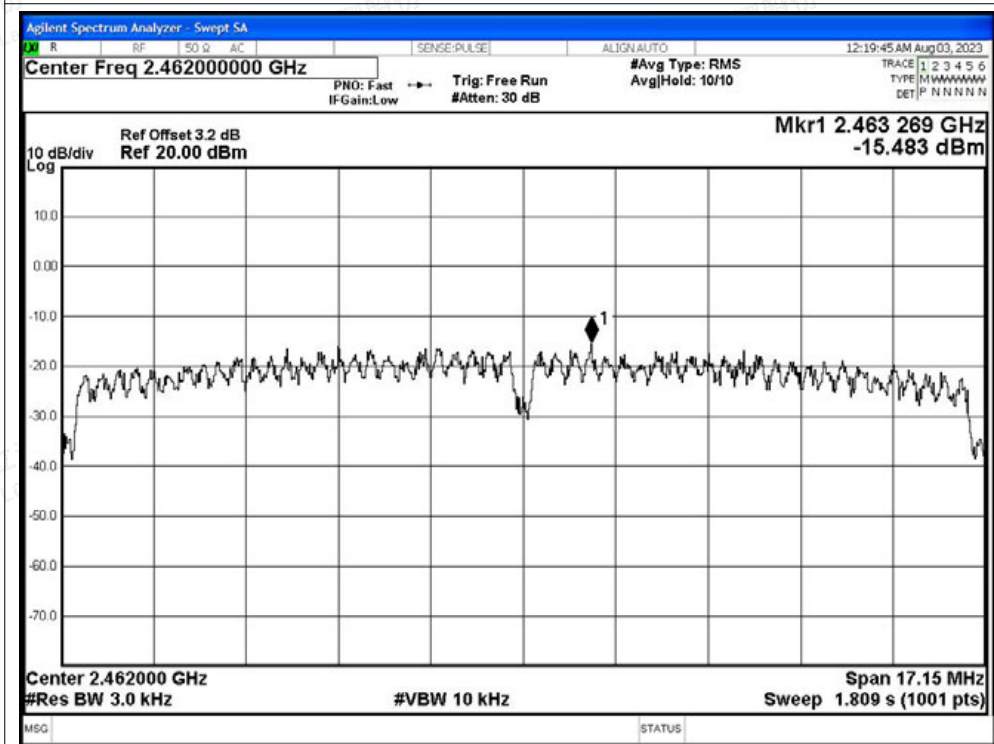




PSD NVNT g 2437MHz Ant1

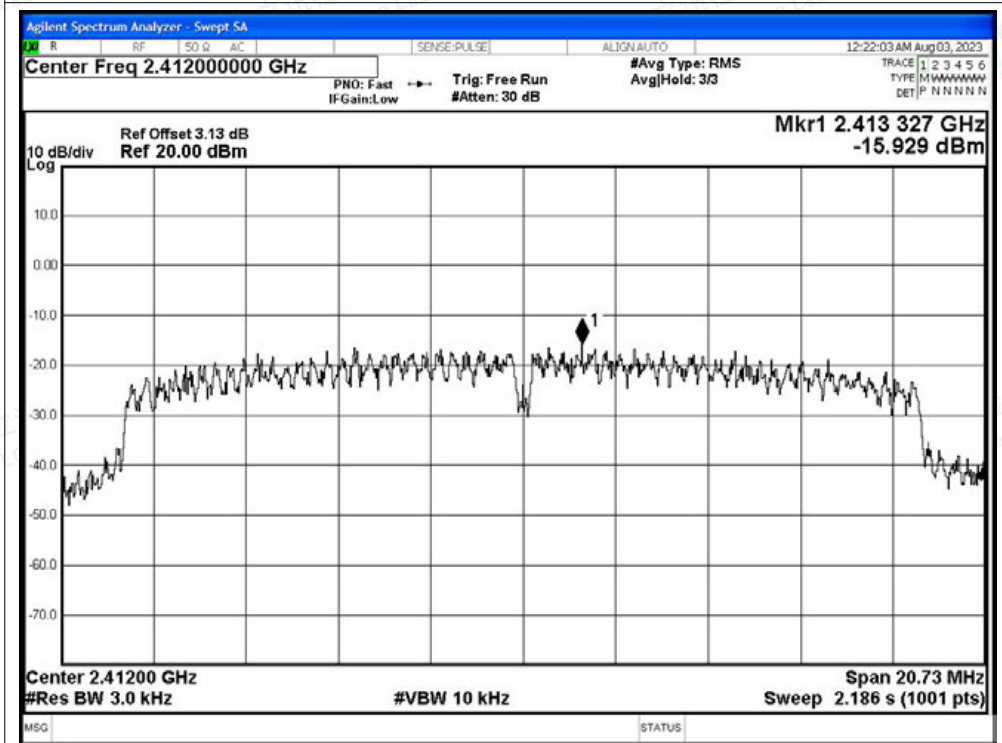


PSD NVNT g 2462MHz Ant1

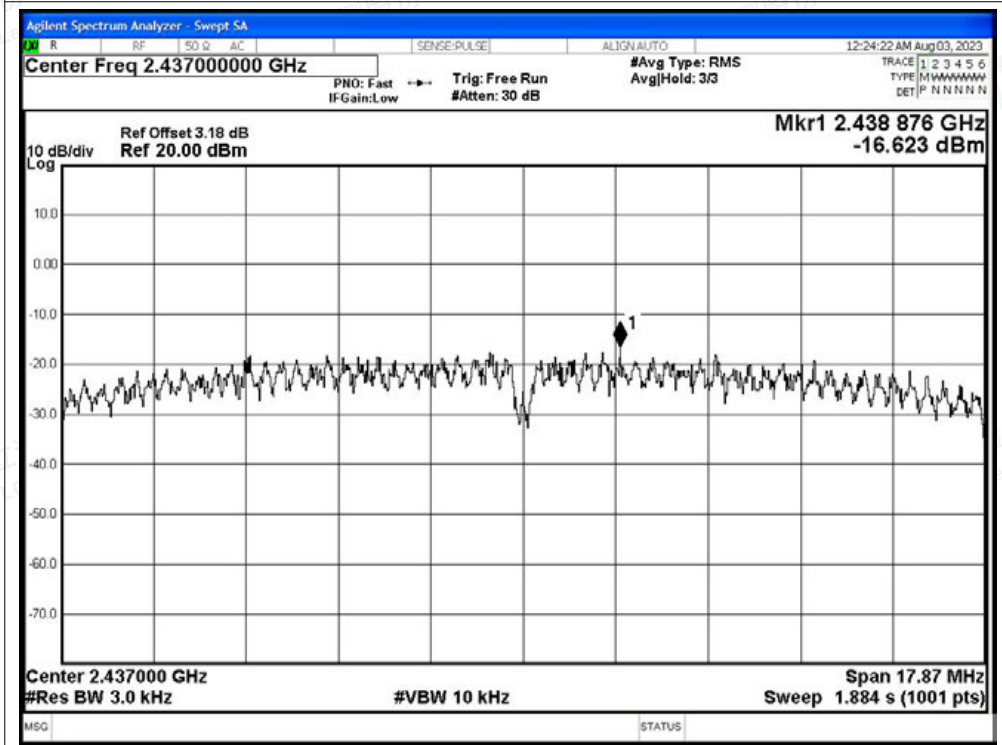




PSD NVNT n20 2412MHz Ant1

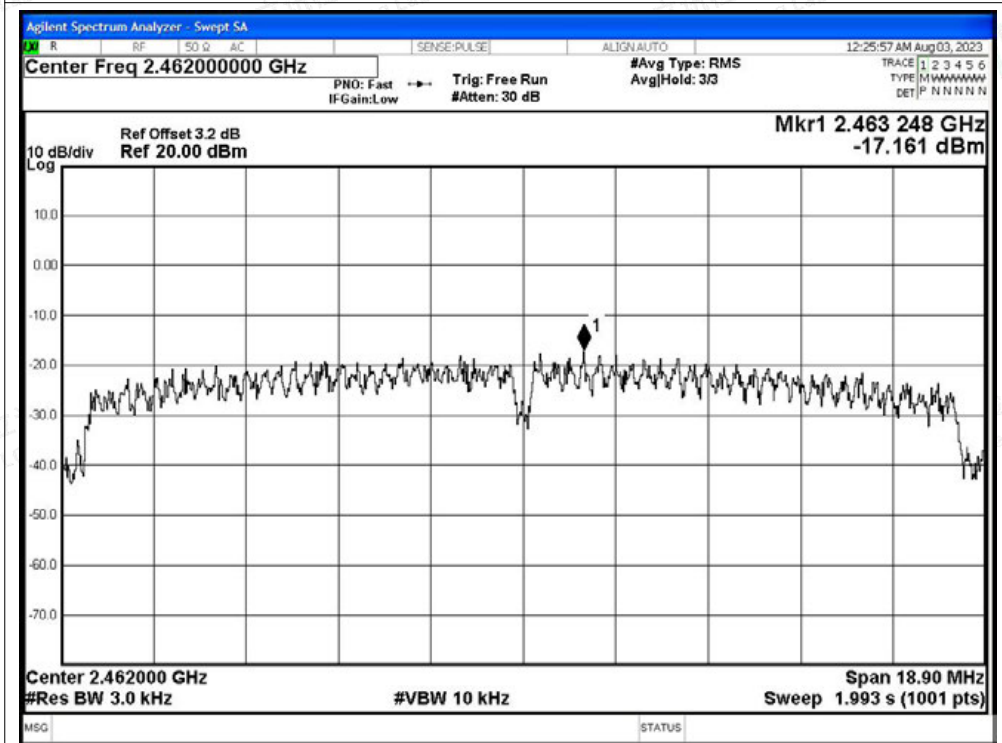


PSD NVNT n20 2437MHz Ant1

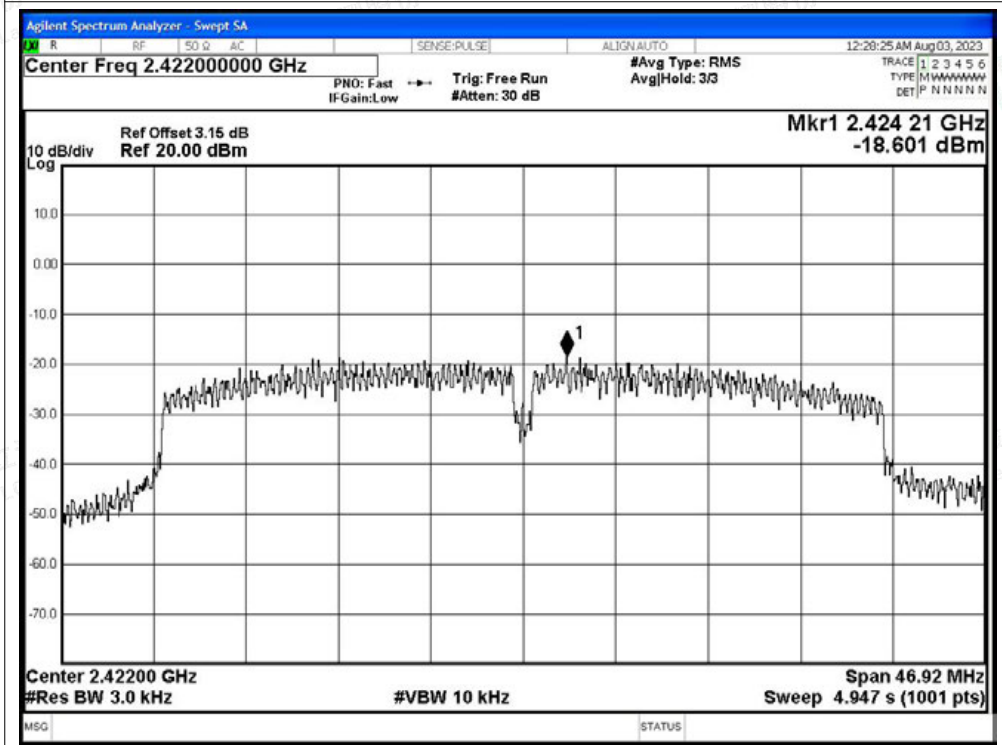




PSD NVNT n20 2462MHz Ant1



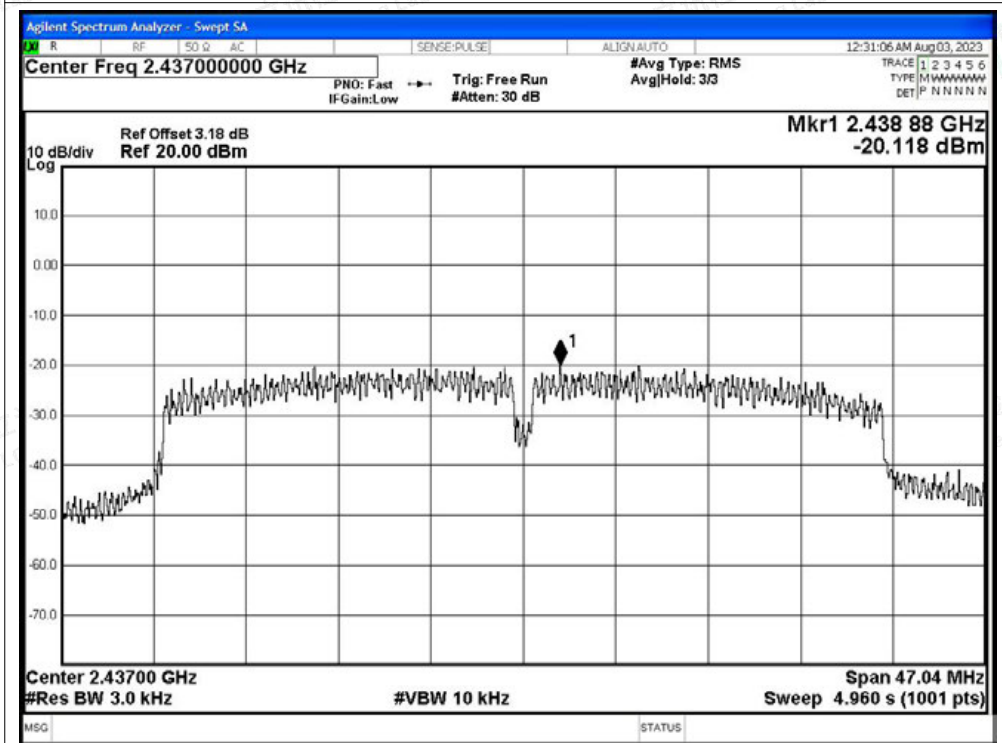
PSD NVNT n40 2422MHz Ant1



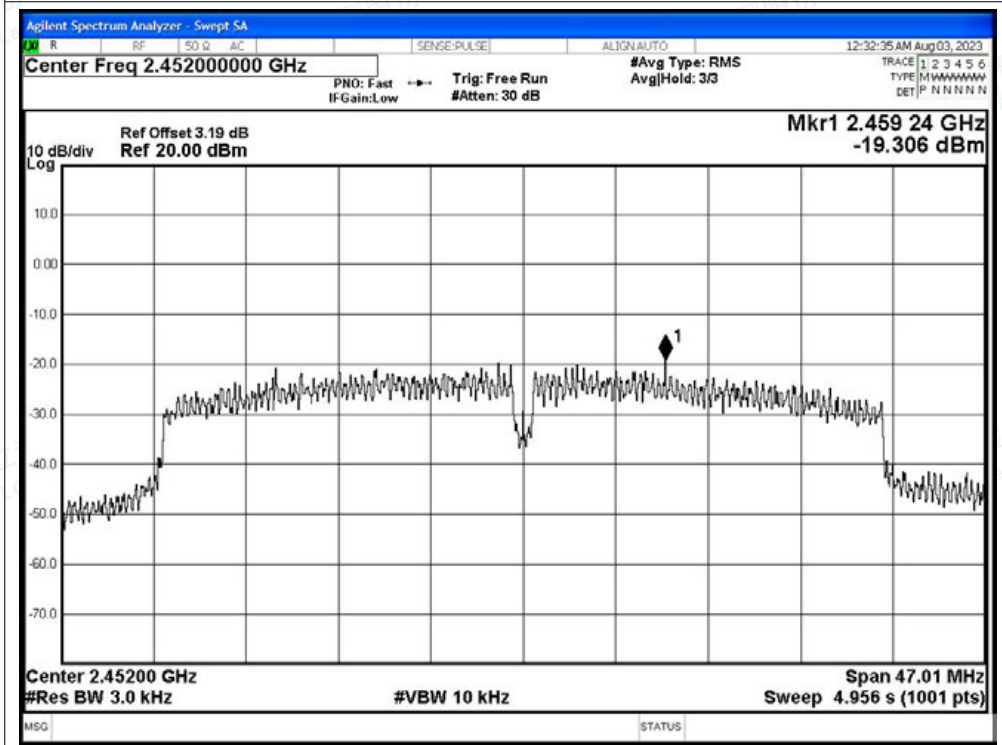




PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1





### A.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant0	-36.98	-20	Pass
NVNT	b	2462	Ant0	-39.22	-20	Pass
NVNT	g	2412	Ant0	-34.92	-20	Pass
NVNT	g	2462	Ant0	-37.19	-20	Pass
NVNT	n20	2412	Ant0	-33.86	-20	Pass
NVNT	n20	2462	Ant0	-36.52	-20	Pass
NVNT	n40	2422	Ant0	-29.28	-20	Pass
NVNT	n40	2452	Ant0	-31.85	-20	Pass

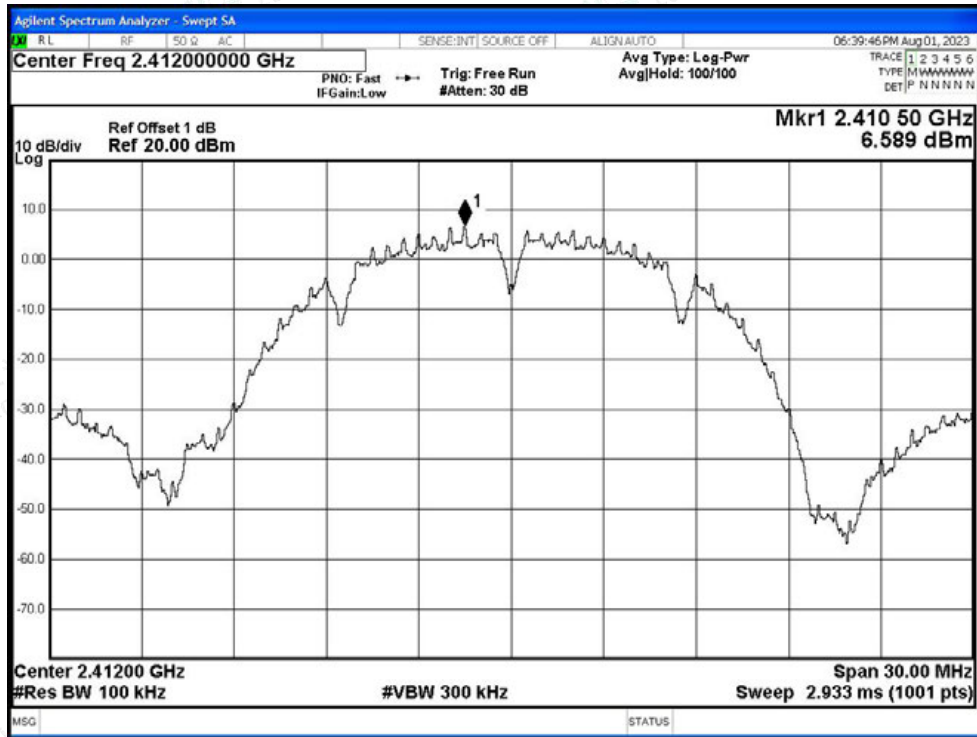


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Test Graphs

Band Edge NVNT b 2412MHz Ant0 Ref

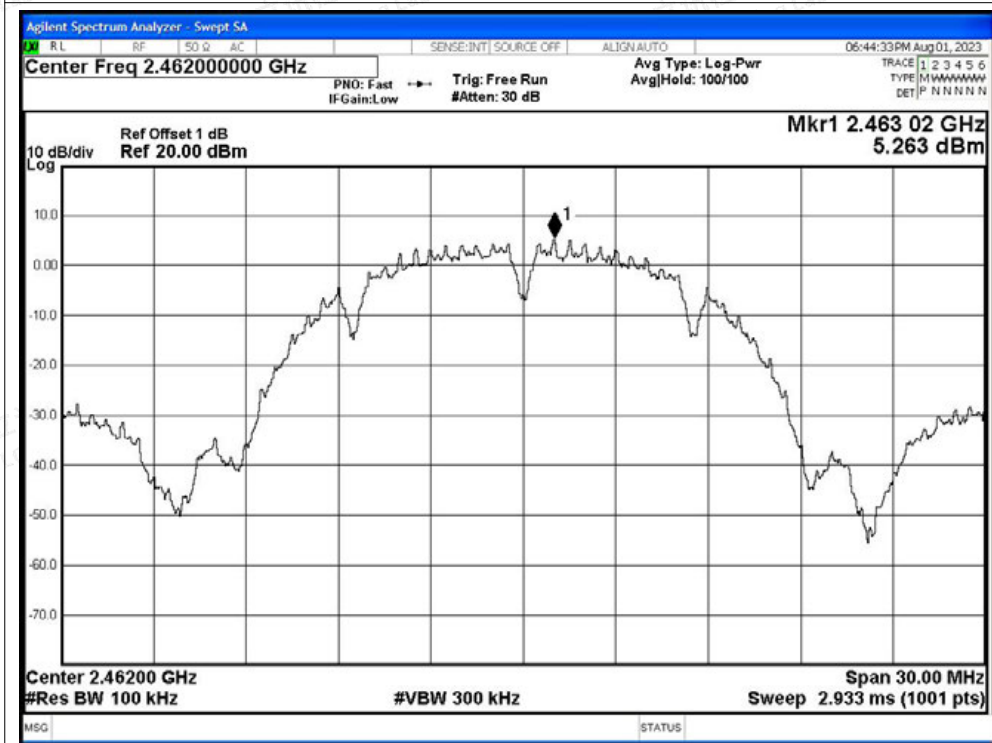


Band Edge NVNT b 2412MHz Ant0 Emission

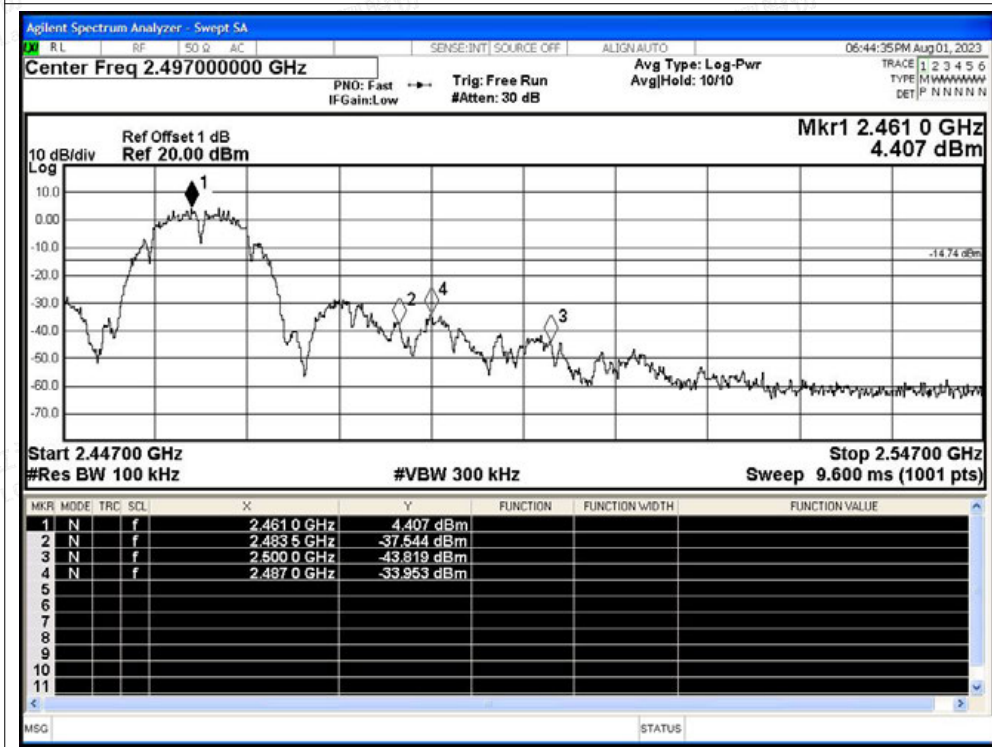




Band Edge NVNT b 2462MHz Ant0 Ref

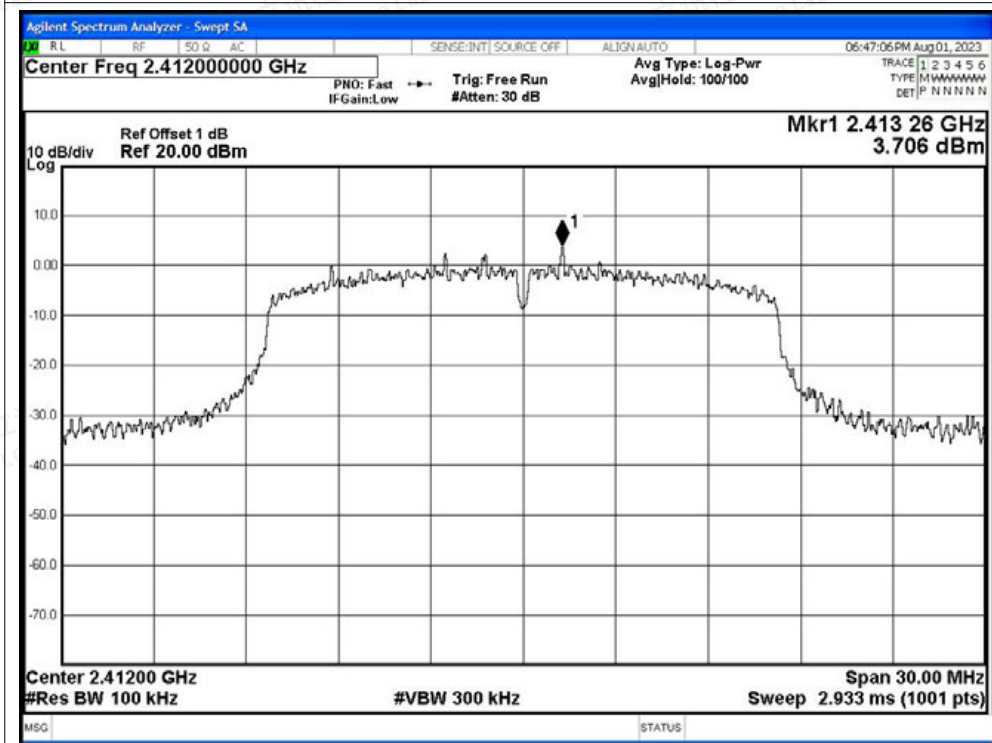


Band Edge NVNT b 2462MHz Ant0 Emission

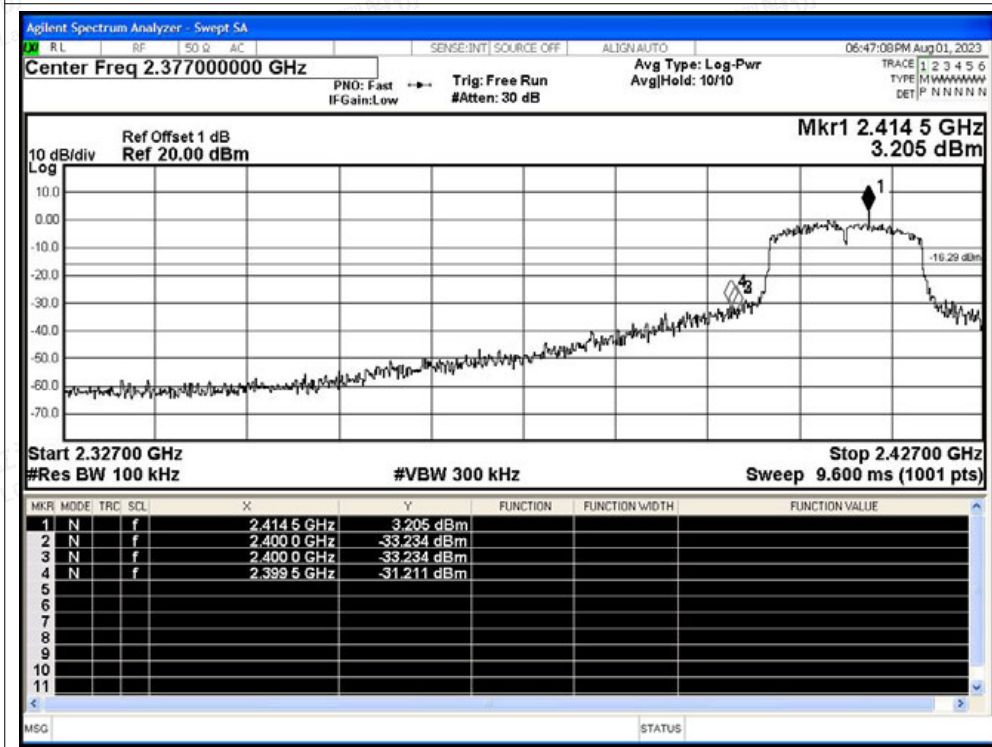




Band Edge NVNT g 2412MHz Ant0 Ref



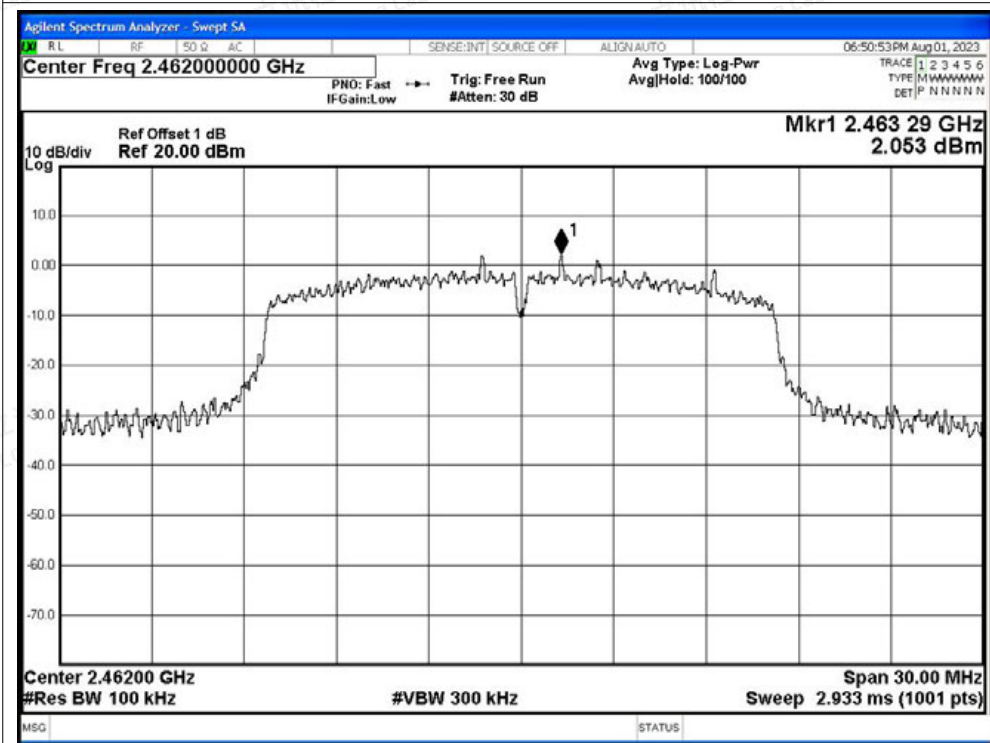
Band Edge NVNT g 2412MHz Ant0 Emission



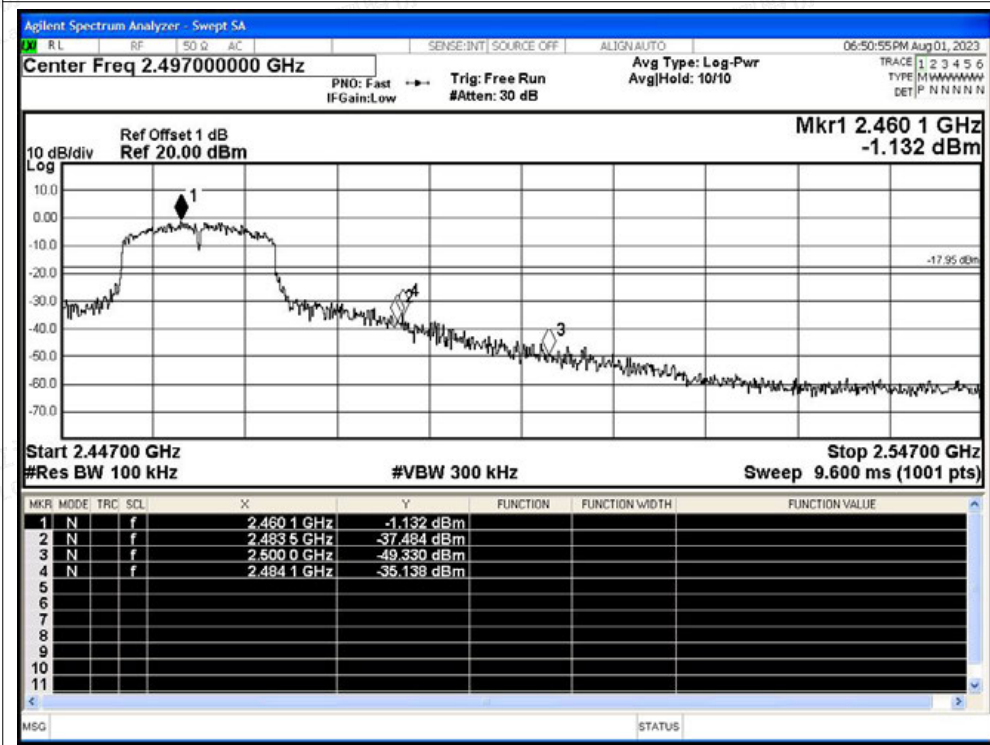




Band Edge NVNT g 2462MHz Ant0 Ref

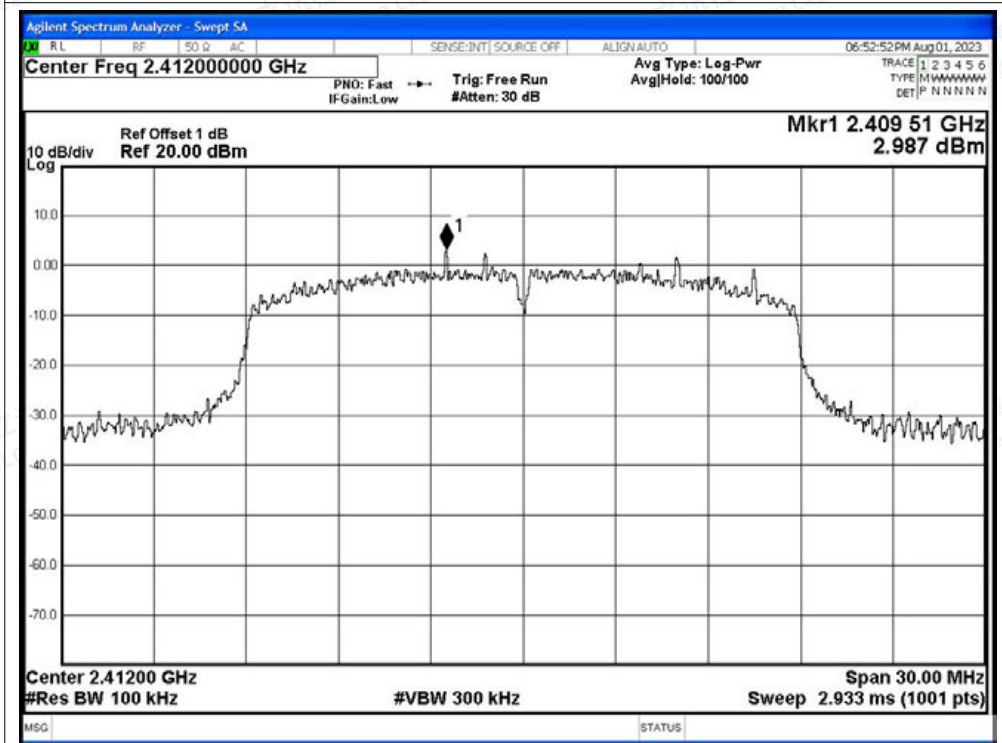


Band Edge NVNT g 2462MHz Ant0 Emission

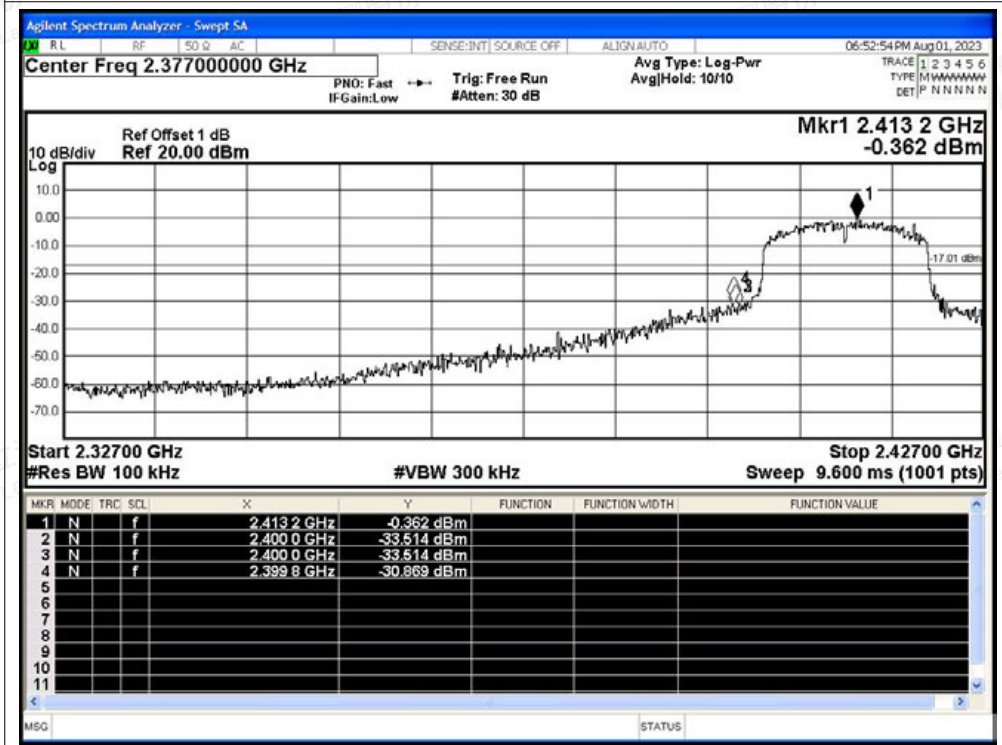




Band Edge NVNT n20 2412MHz Ant0 Ref

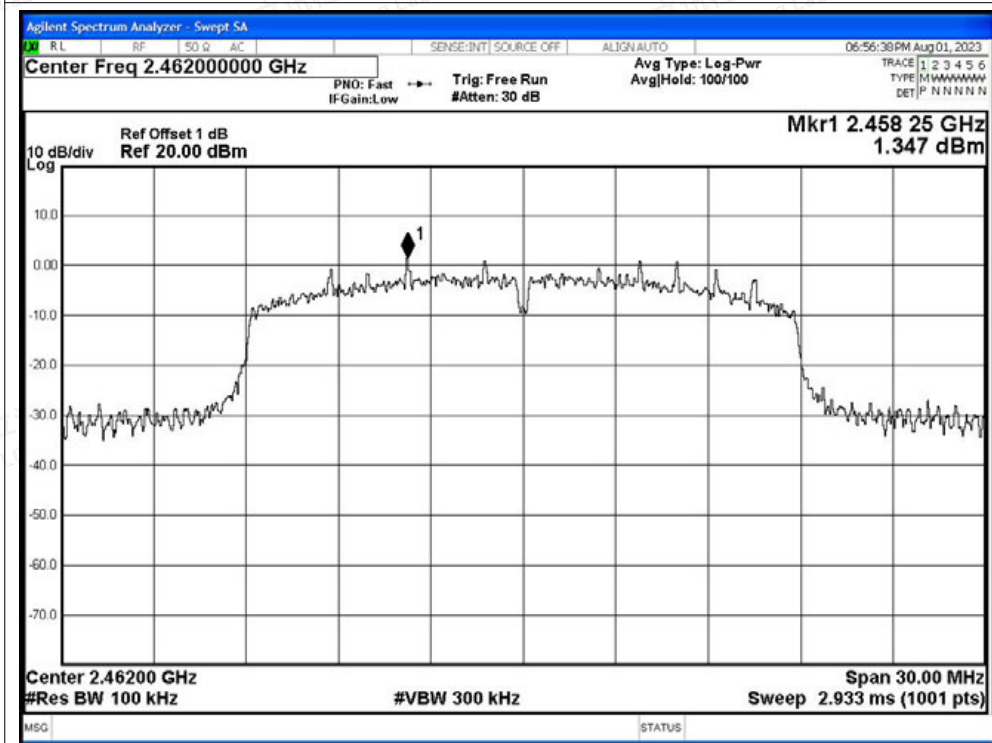


Band Edge NVNT n20 2412MHz Ant0 Emission

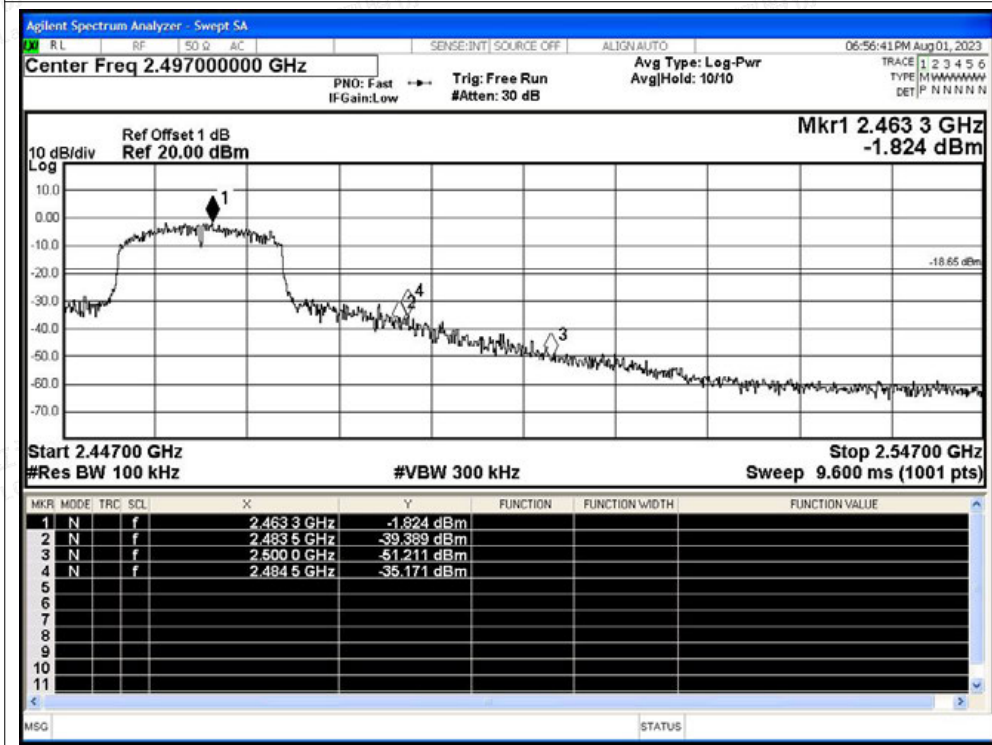




Band Edge NVNT n20 2462MHz Ant0 Ref

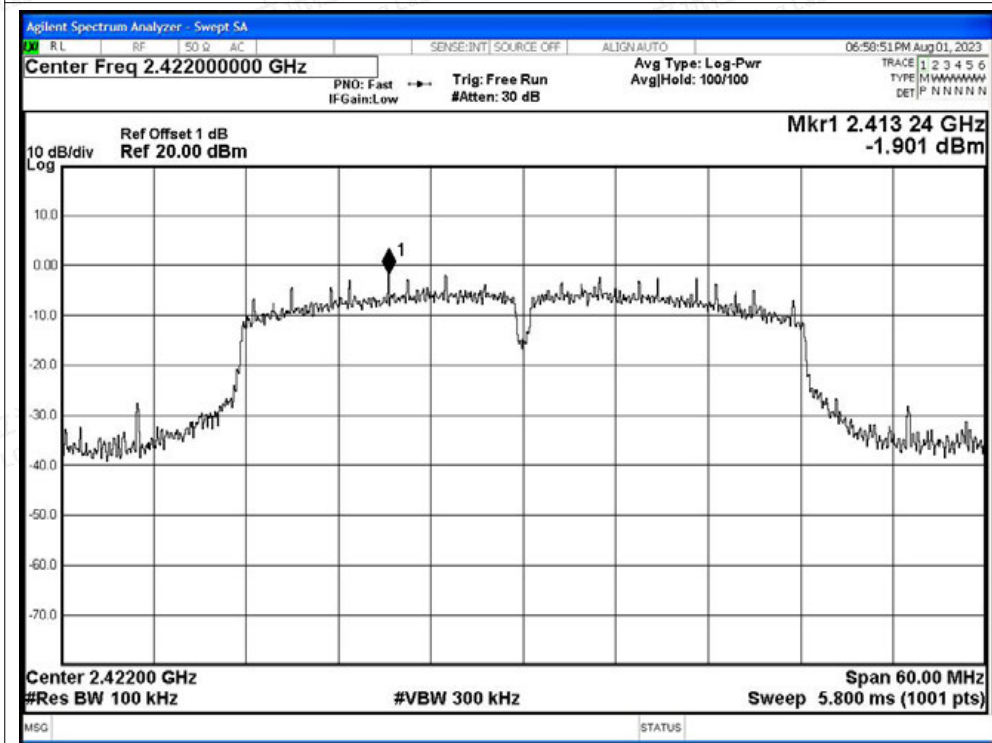


Band Edge NVNT n20 2462MHz Ant0 Emission

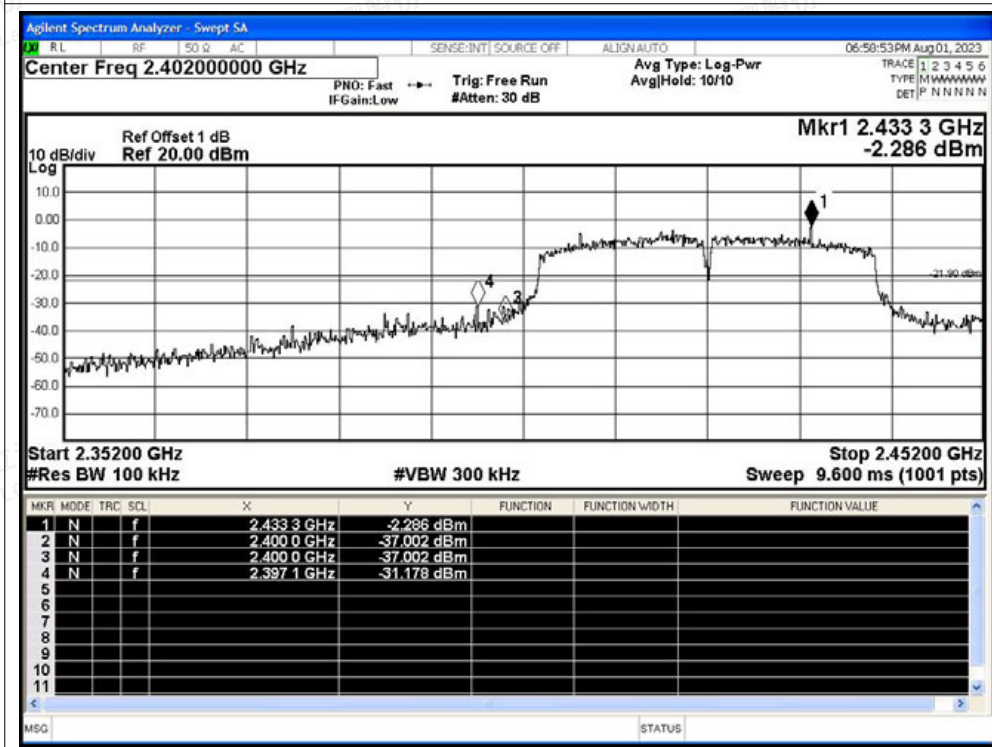




Band Edge NVNT n40 2422MHz Ant0 Ref



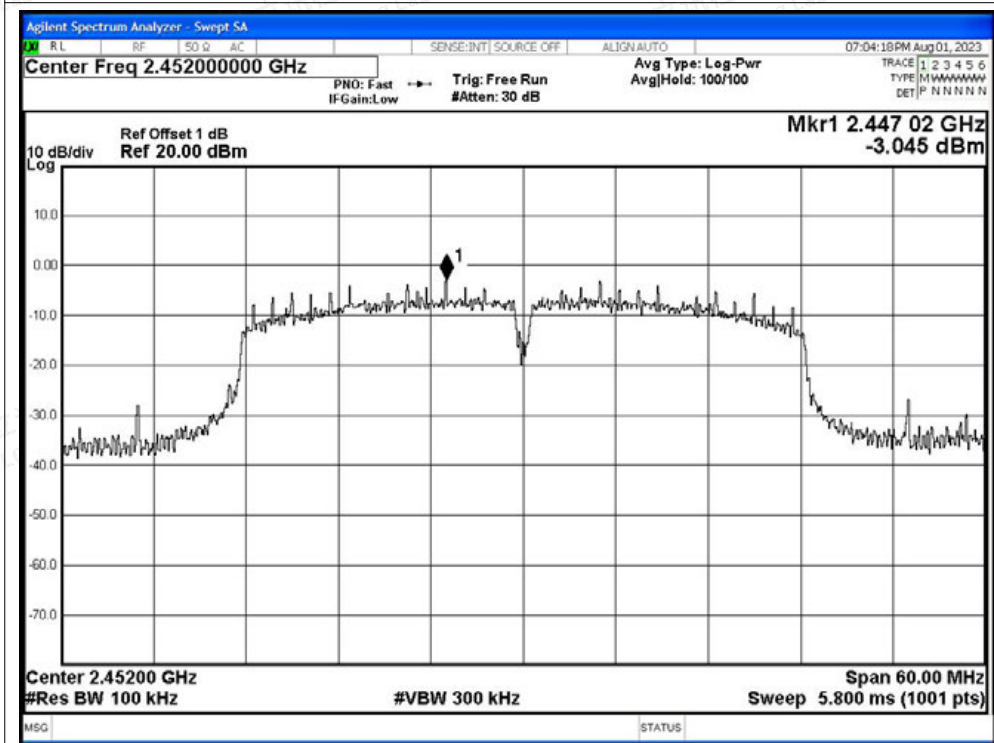
Band Edge NVNT n40 2422MHz Ant0 Emission



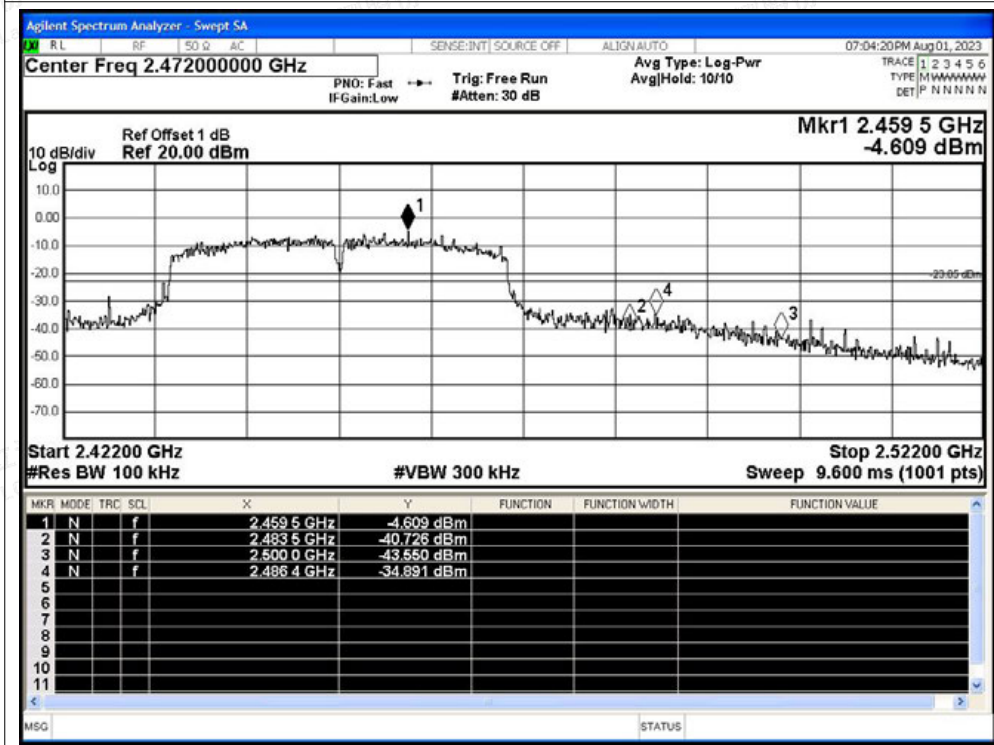




Band Edge NVNT n40 2452MHz Ant0 Ref



Band Edge NVNT n40 2452MHz Ant0 Emission







Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-30.12	-20	Pass
NVNT	b	2462	Ant1	-39.54	-20	Pass
NVNT	g	2412	Ant1	-25.28	-20	Pass
NVNT	g	2462	Ant1	-34.79	-20	Pass
NVNT	n20	2412	Ant1	-26.3	-20	Pass
NVNT	n20	2462	Ant1	-32.54	-20	Pass
NVNT	n40	2422	Ant1	-27.57	-20	Pass
NVNT	n40	2452	Ant1	-20.85	-20	Pass



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Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
Scan code to check authenticity

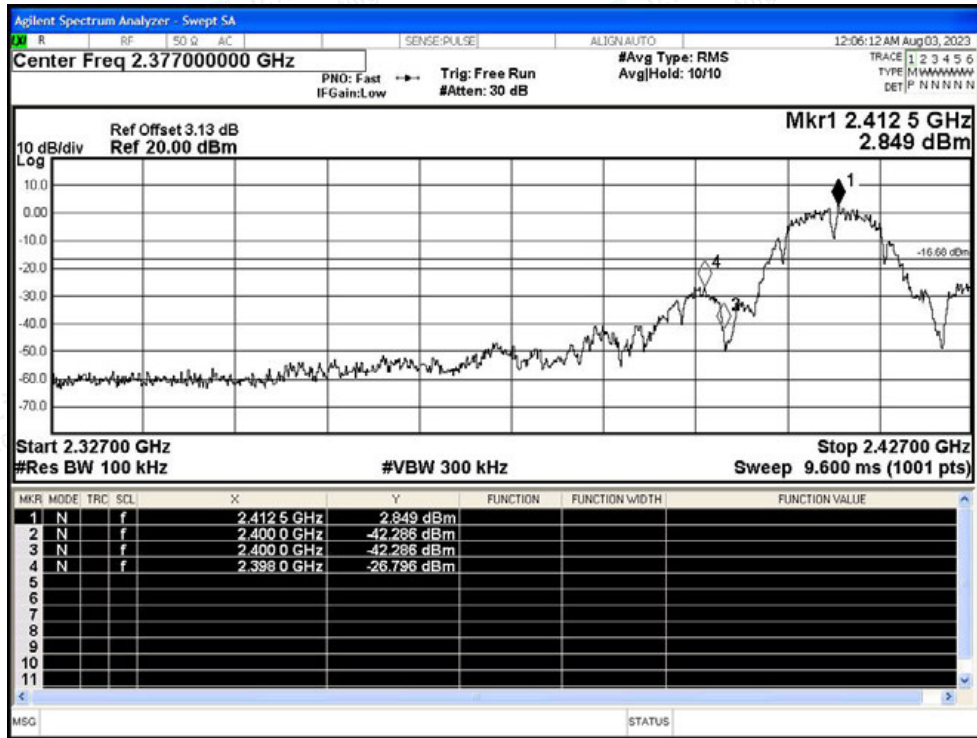


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission





Band Edge NVNT b 2462MHz Ant1 Ref

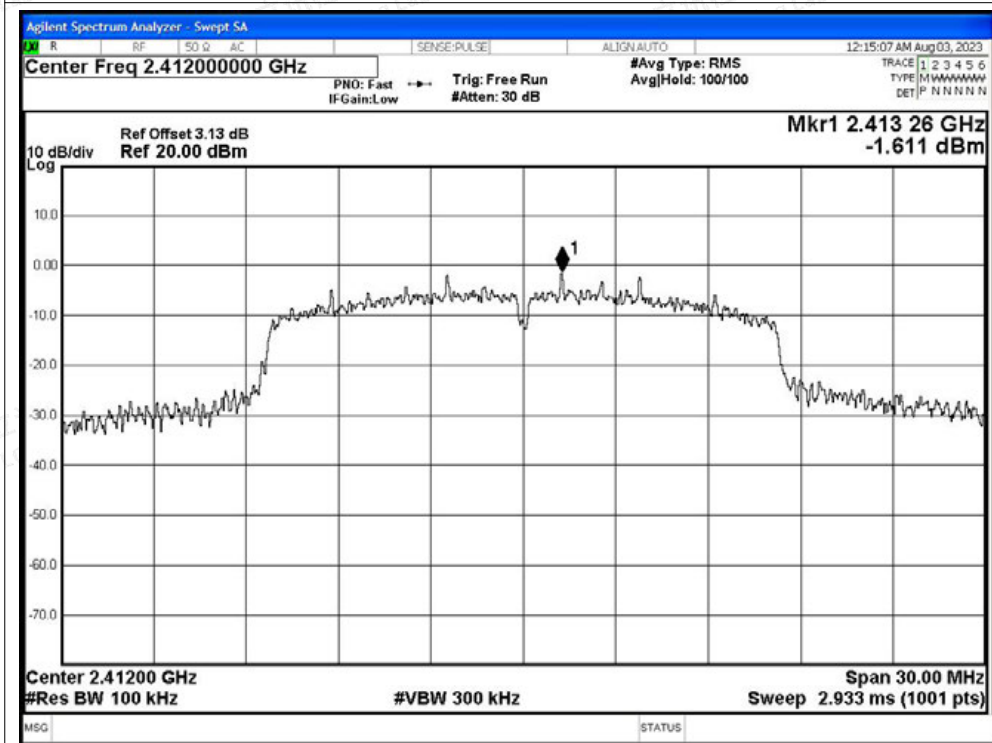


Band Edge NVNT b 2462MHz Ant1 Emission

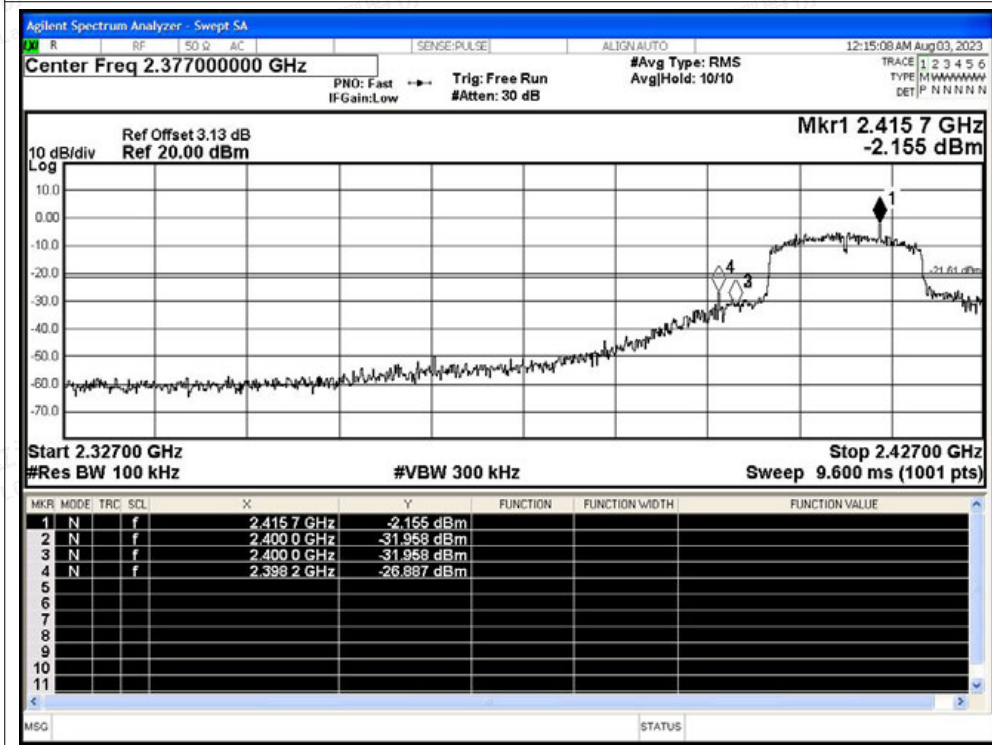




Band Edge NVNT g 2412MHz Ant1 Ref

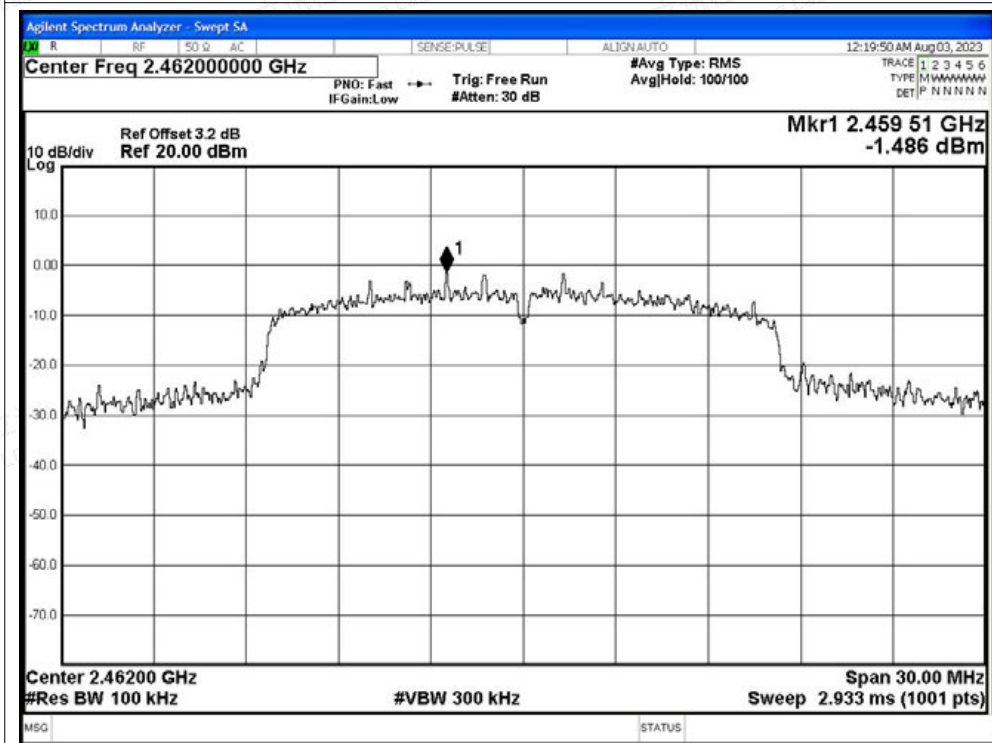


Band Edge NVNT g 2412MHz Ant1 Emission

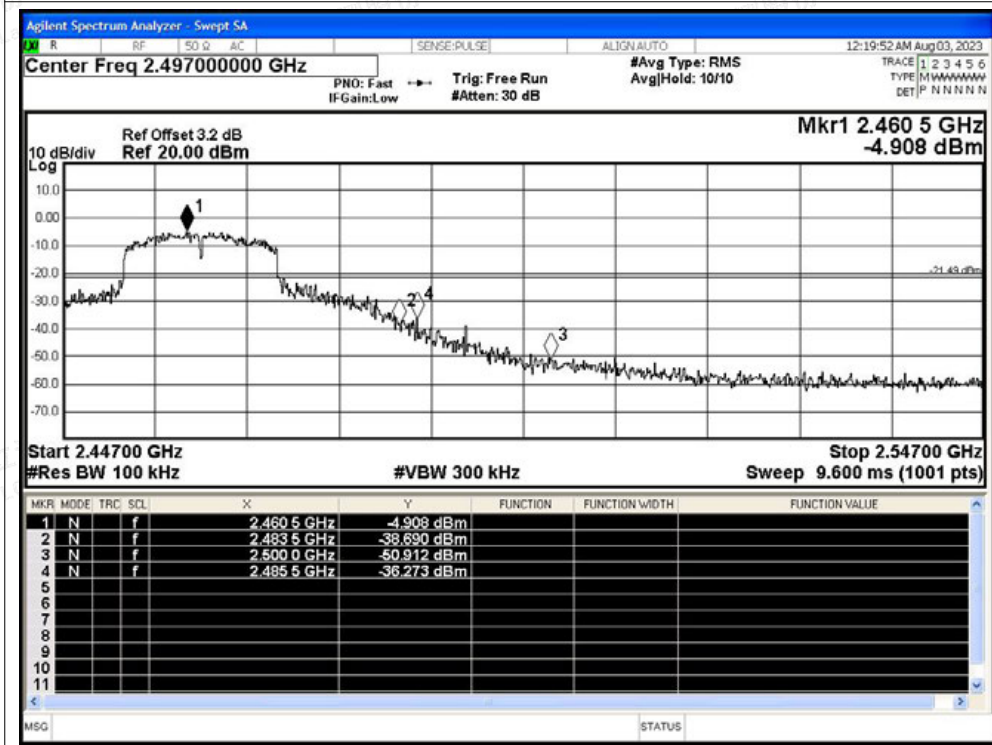




Band Edge NVNT g 2462MHz Ant1 Ref



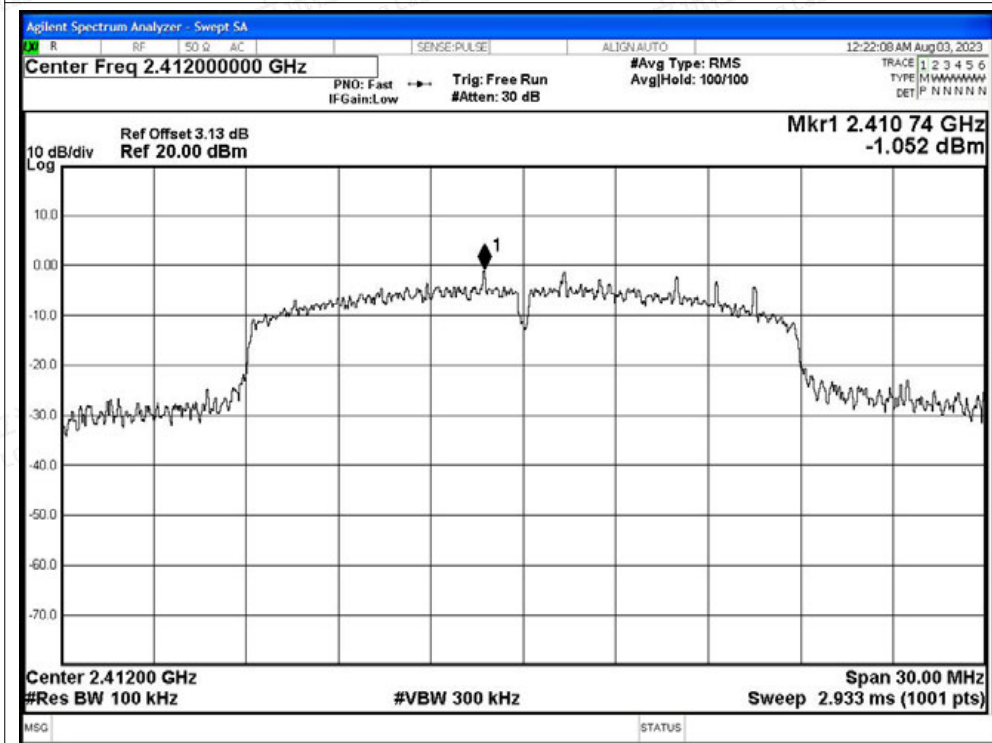
Band Edge NVNT g 2462MHz Ant1 Emission



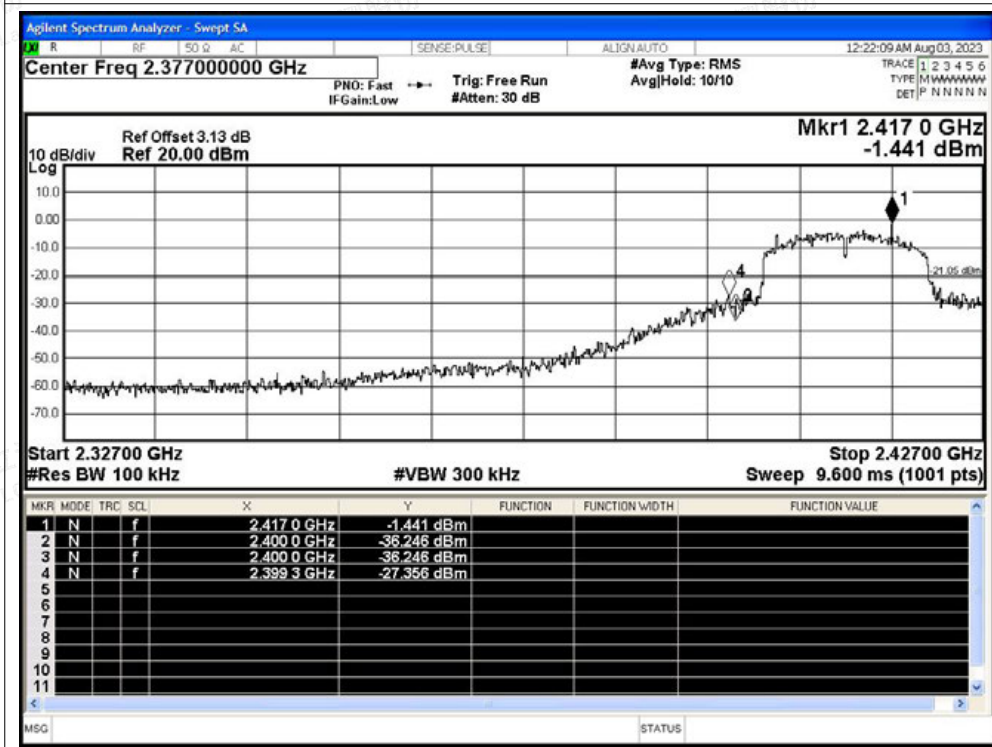




Band Edge NVNT n20 2412MHz Ant1 Ref

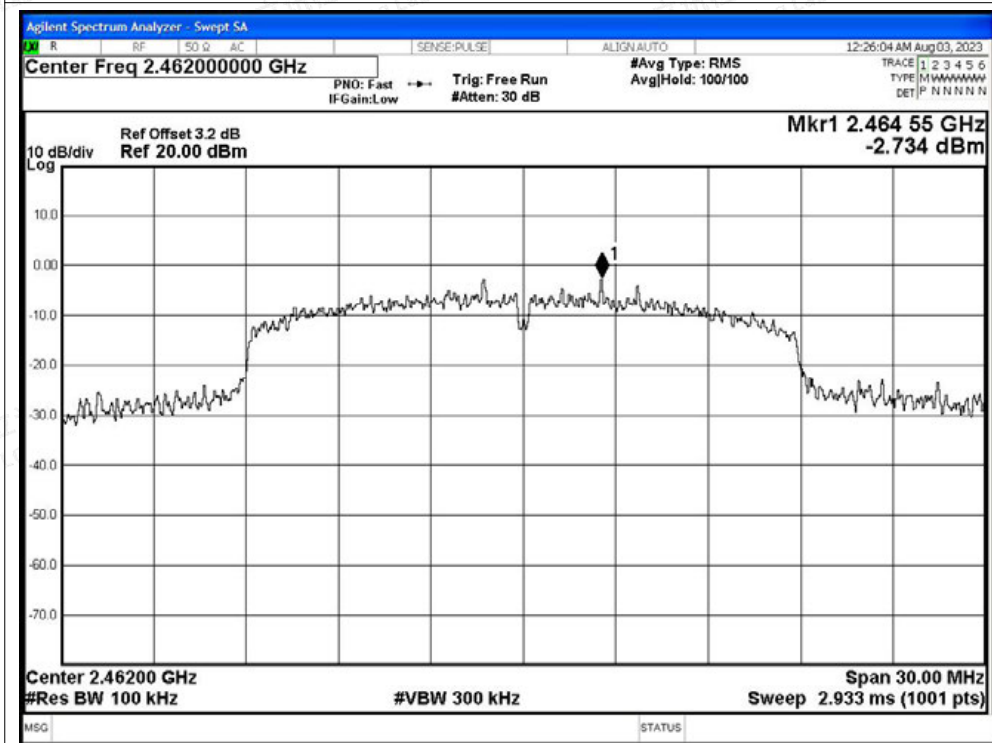


Band Edge NVNT n20 2412MHz Ant1 Emission

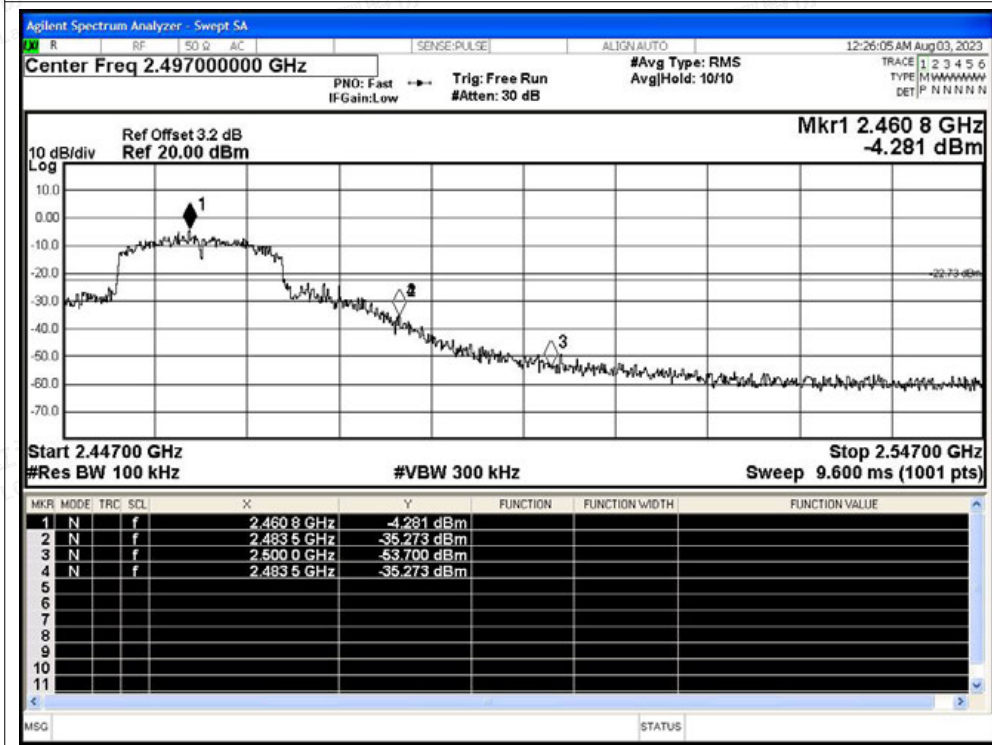




Band Edge NVNT n20 2462MHz Ant1 Ref

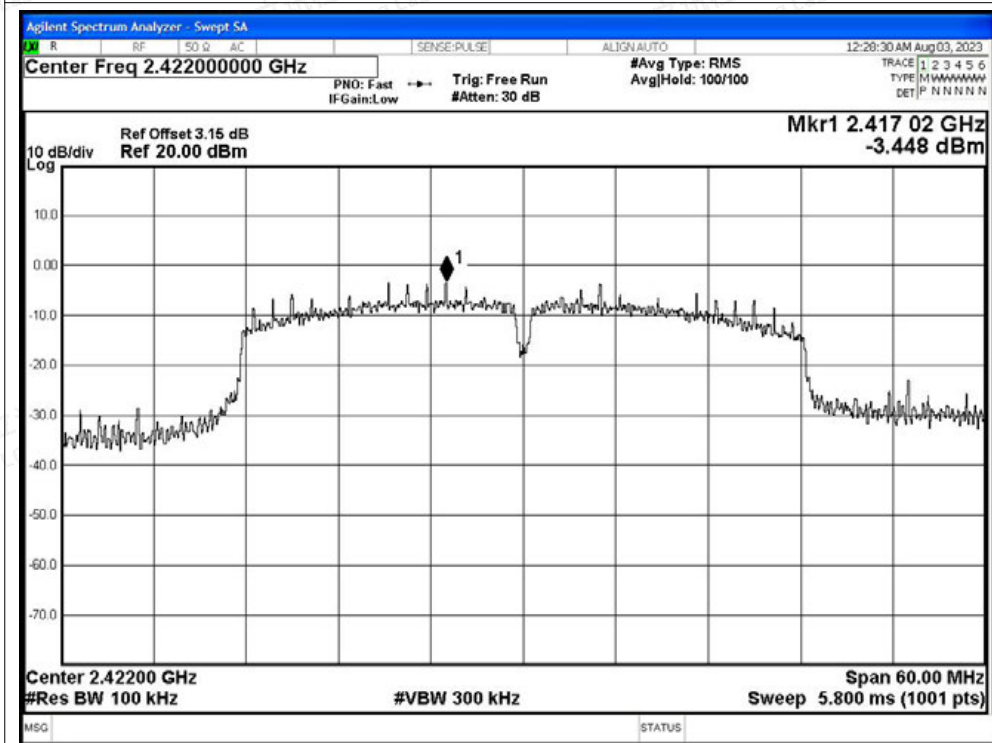


Band Edge NVNT n20 2462MHz Ant1 Emission





Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission

