



Appendix C

RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: Digital Projector

Test Model: NeoPix 550 Smart

Environmental Conditions

Temperature:	26.3° C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
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	Ant0	8.267	≥ 0.5	Pass
NVNT	b	2437	Ant0	8.512	≥ 0.5	Pass
NVNT	b	2462	Ant0	8.168	≥ 0.5	Pass
NVNT	g	2412	Ant0	16.423	≥ 0.5	Pass
NVNT	g	2437	Ant0	16.338	≥ 0.5	Pass
NVNT	g	2462	Ant0	16.454	≥ 0.5	Pass
NVNT	n20	2412	Ant0	16.993	≥ 0.5	Pass
NVNT	n20	2437	Ant0	17.643	≥ 0.5	Pass
NVNT	n20	2462	Ant0	16.587	≥ 0.5	Pass
NVNT	n40	2422	Ant0	35.459	≥ 0.5	Pass
NVNT	n40	2437	Ant0	35.953	≥ 0.5	Pass
NVNT	n40	2452	Ant0	33.835	≥ 0.5	Pass
NVNT	ax20	2412	Ant0	16.654	≥ 0.5	Pass
NVNT	ax20	2437	Ant0	17.141	≥ 0.5	Pass
NVNT	ax20	2462	Ant0	17.081	≥ 0.5	Pass
NVNT	ax40	2422	Ant0	35.169	≥ 0.5	Pass
NVNT	ax40	2437	Ant0	35.369	≥ 0.5	Pass
NVNT	ax40	2452	Ant0	34.722	≥ 0.5	Pass





Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant0

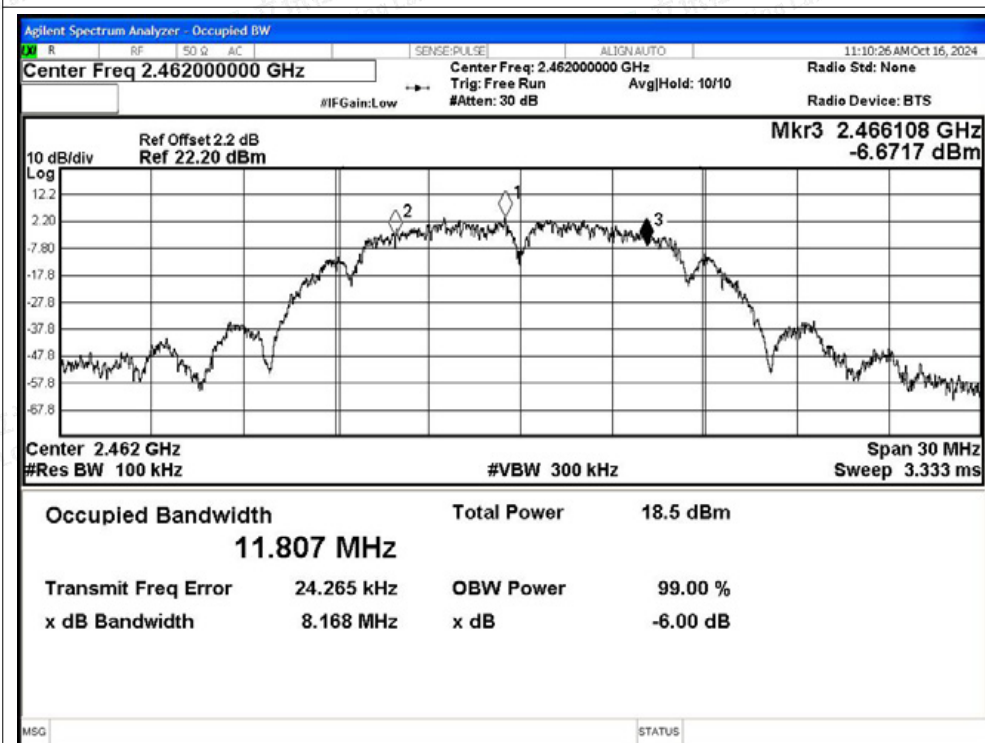


-6dB Bandwidth NVNT b 2437MHz Ant0

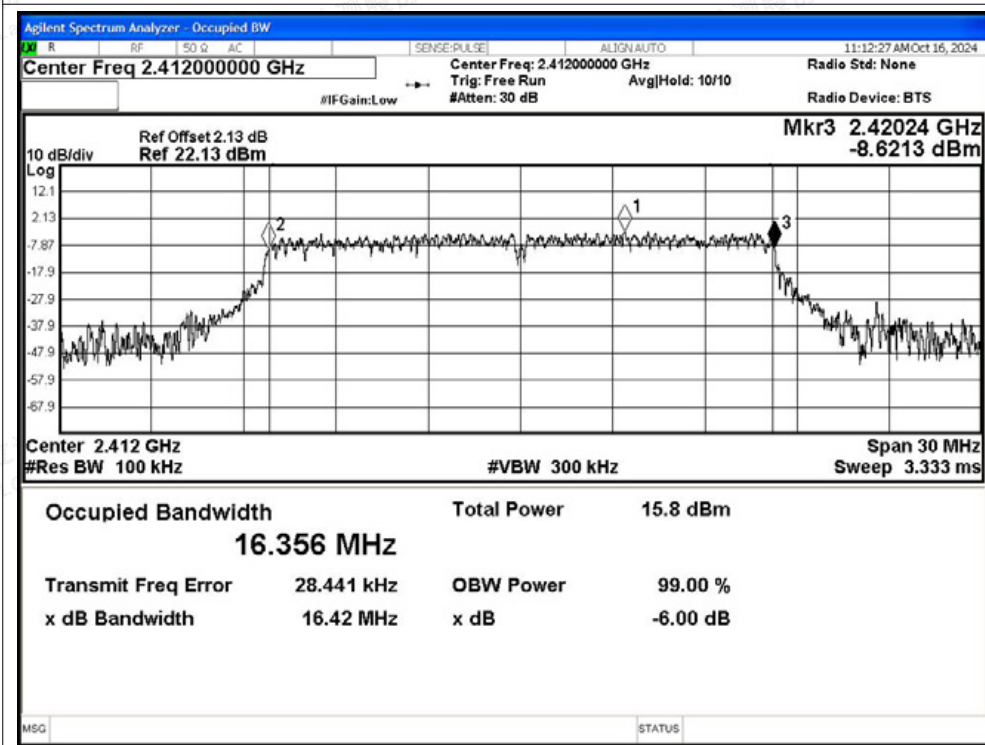




-6dB Bandwidth NVNT b 2462MHz Ant0

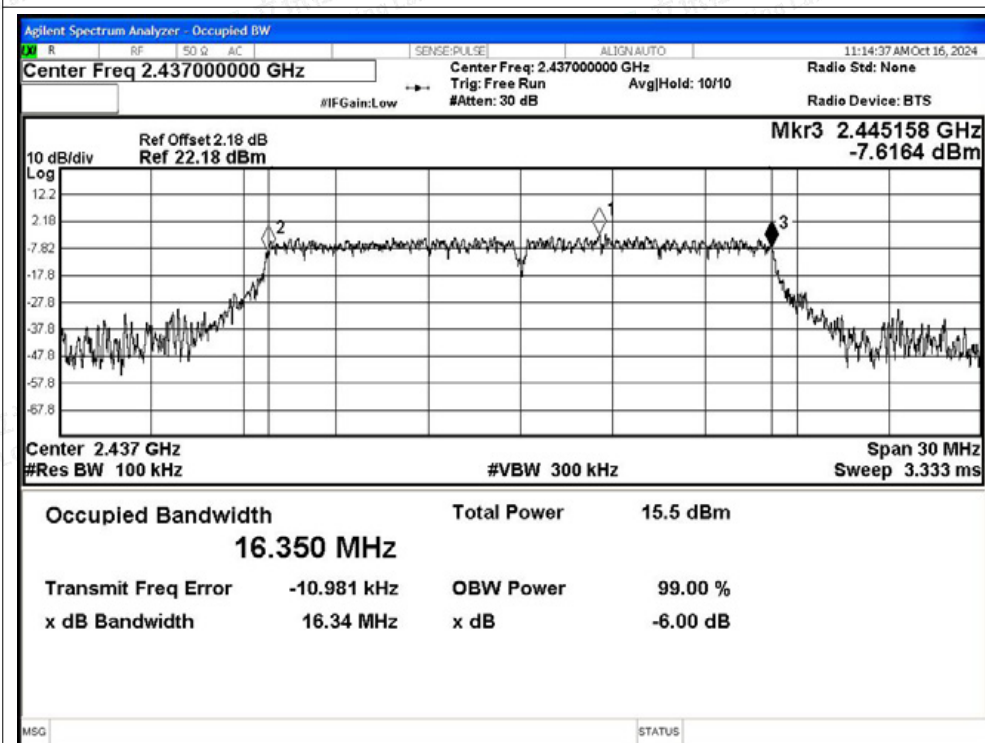


-6dB Bandwidth NVNT g 2412MHz Ant0

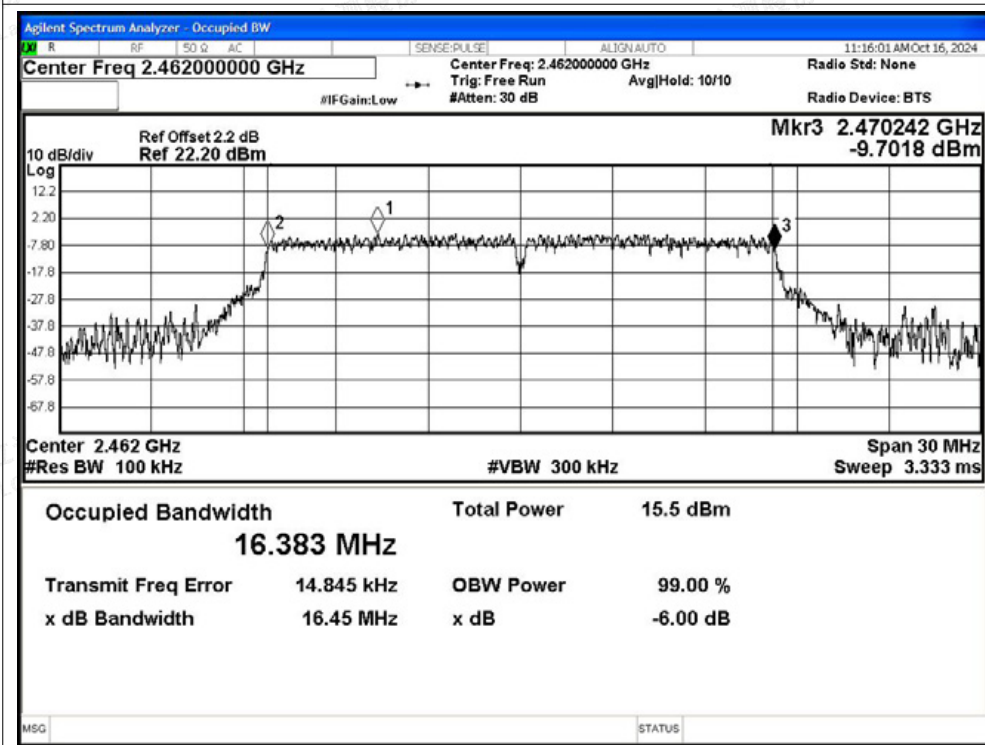




-6dB Bandwidth NVNT g 2437MHz Ant0



-6dB Bandwidth NVNT g 2462MHz Ant0



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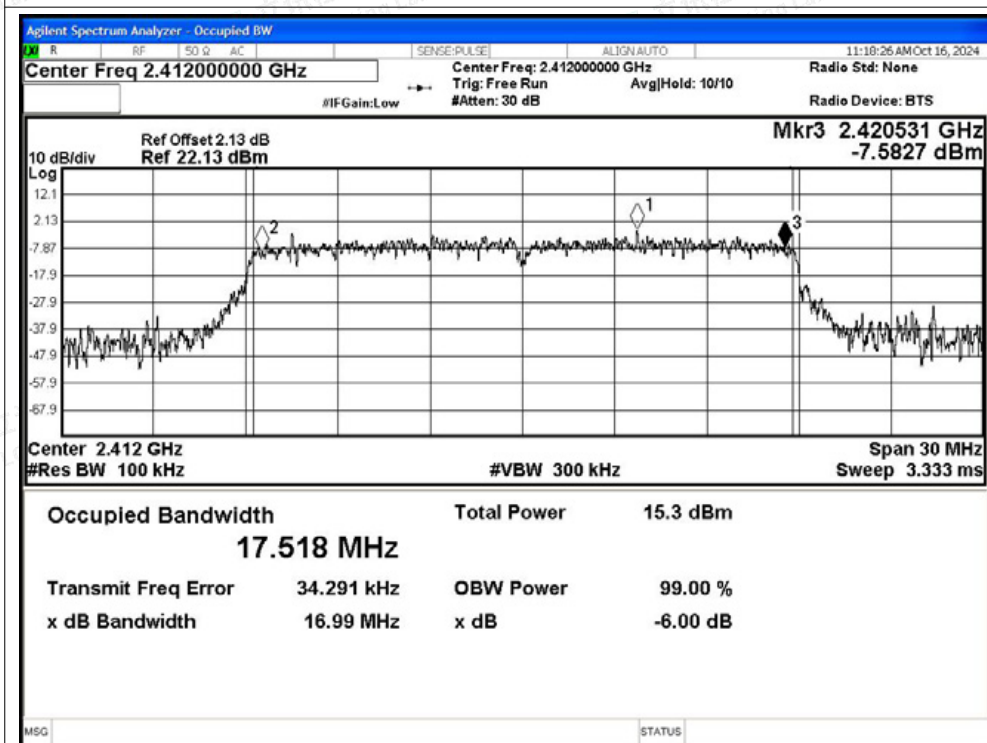
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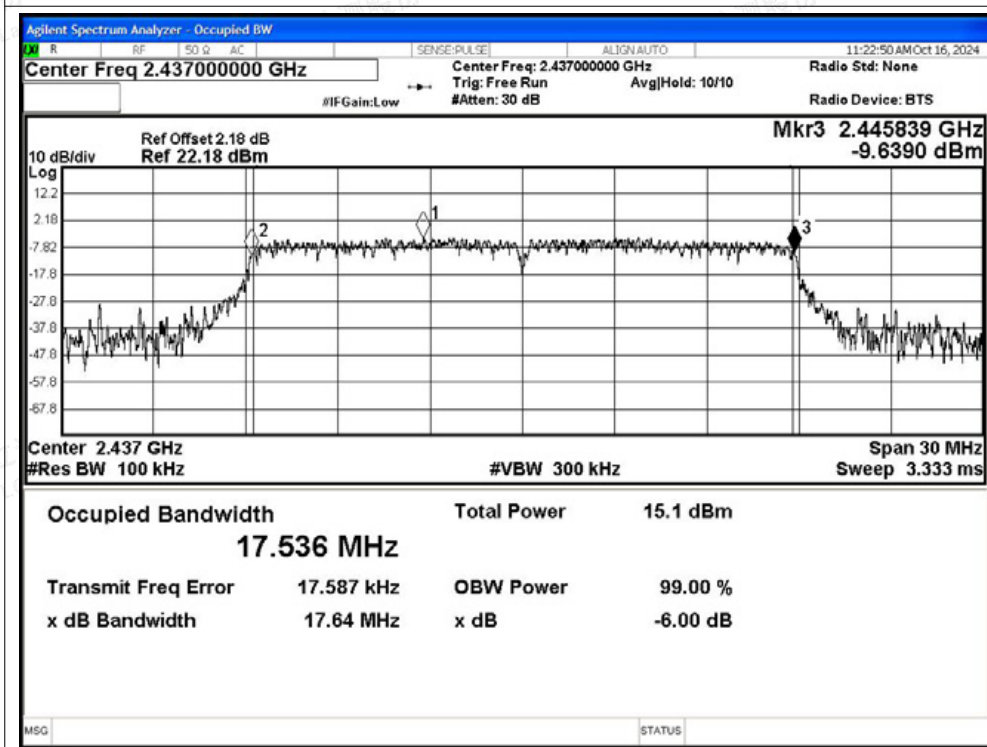
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-6dB Bandwidth NVNT n20 2412MHz Ant0

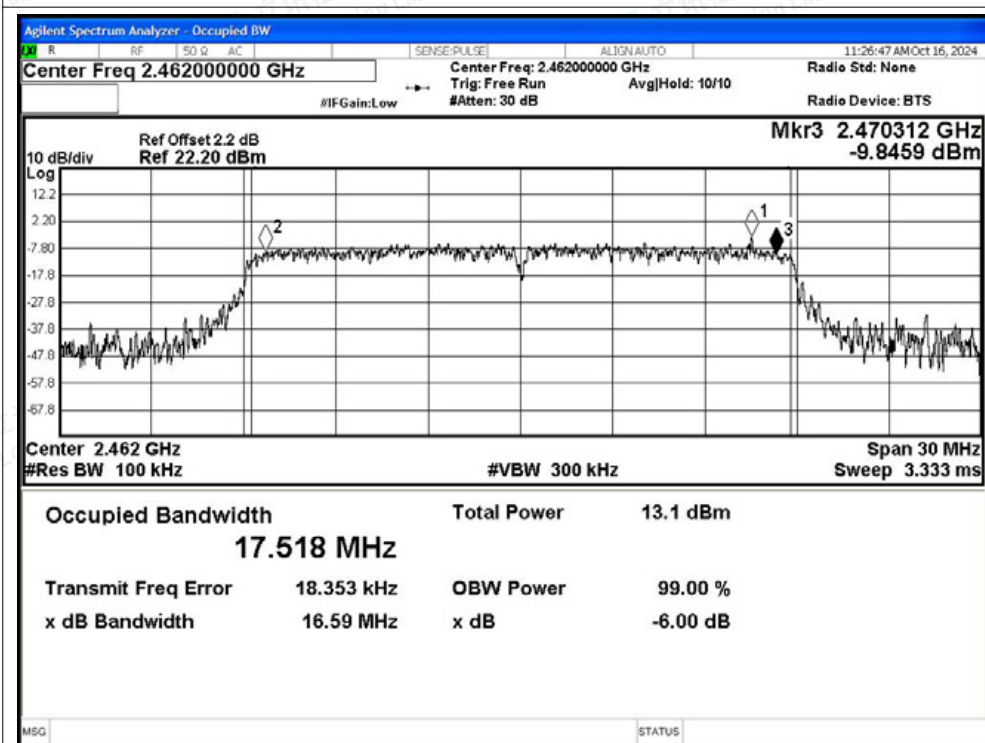


-6dB Bandwidth NVNT n20 2437MHz Ant0

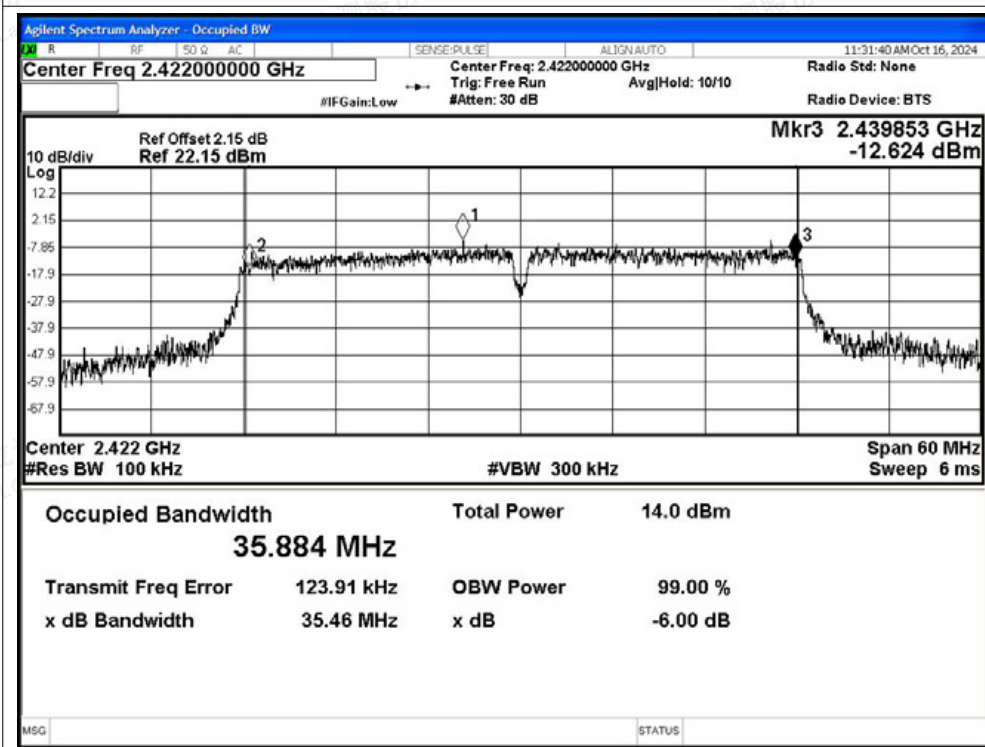




-6dB Bandwidth NVNT n20 2462MHz Ant0

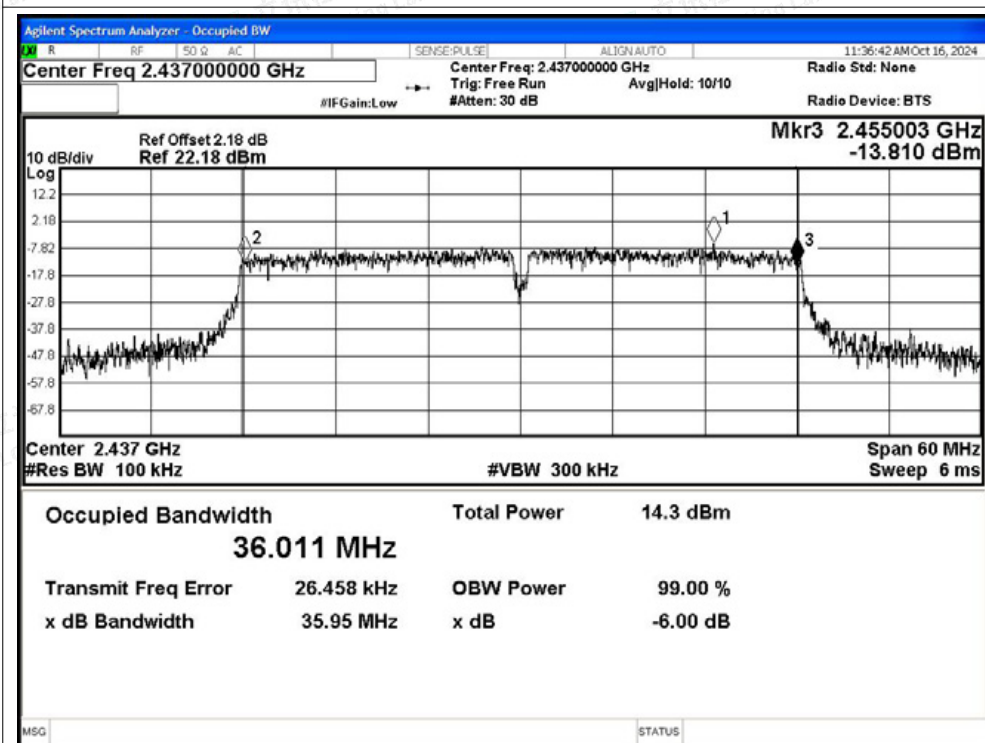


-6dB Bandwidth NVNT n40 2422MHz Ant0

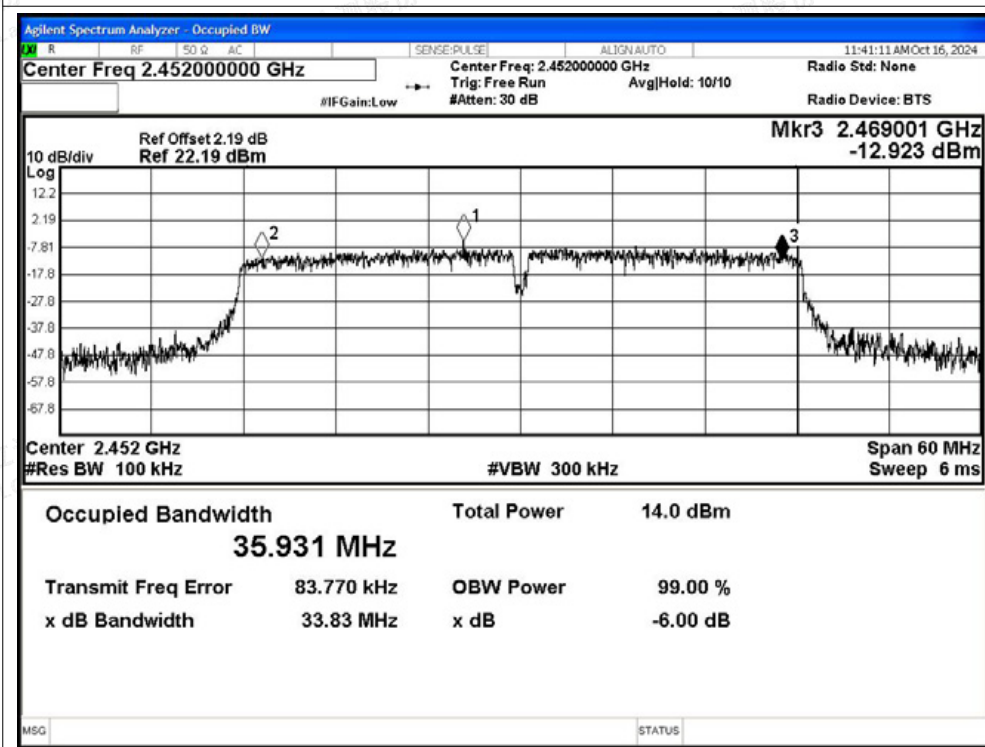




-6dB Bandwidth NVNT n40 2437MHz Ant0



-6dB Bandwidth NVNT n40 2452MHz Ant0



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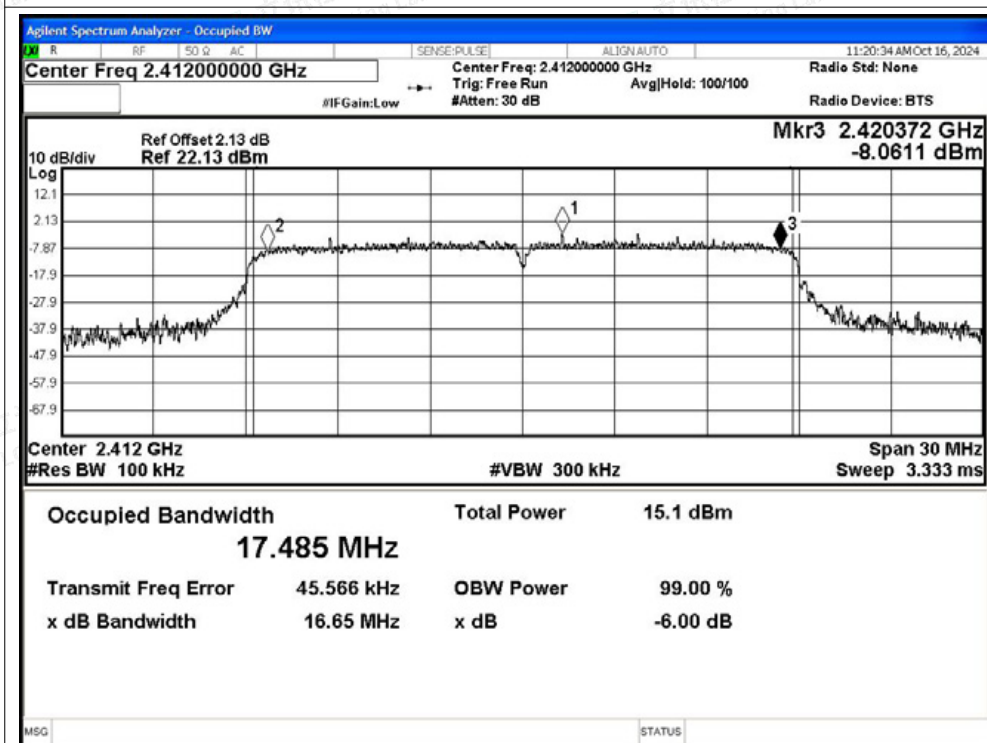
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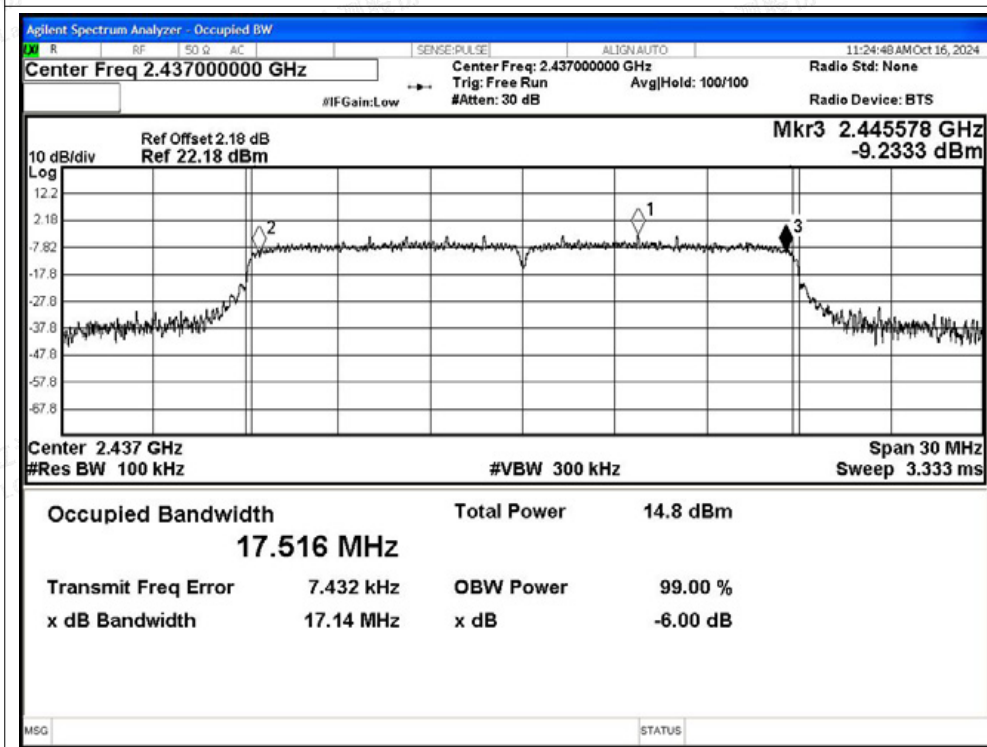
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-6dB Bandwidth NVNT ax20 2412MHz Ant0

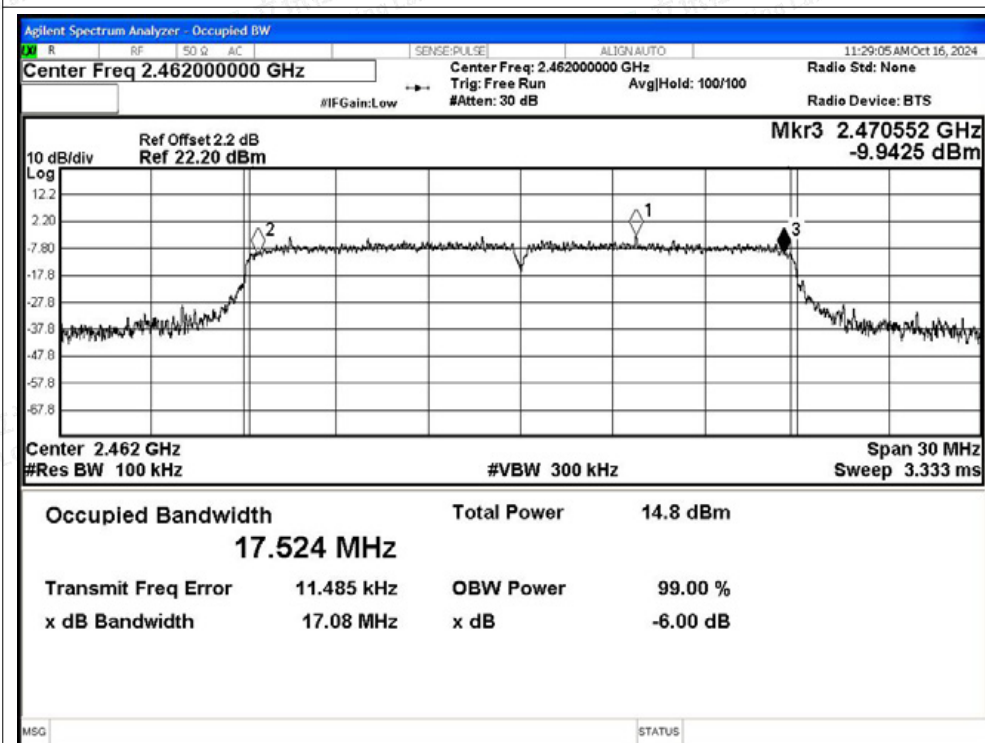


-6dB Bandwidth NVNT ax20 2437MHz Ant0

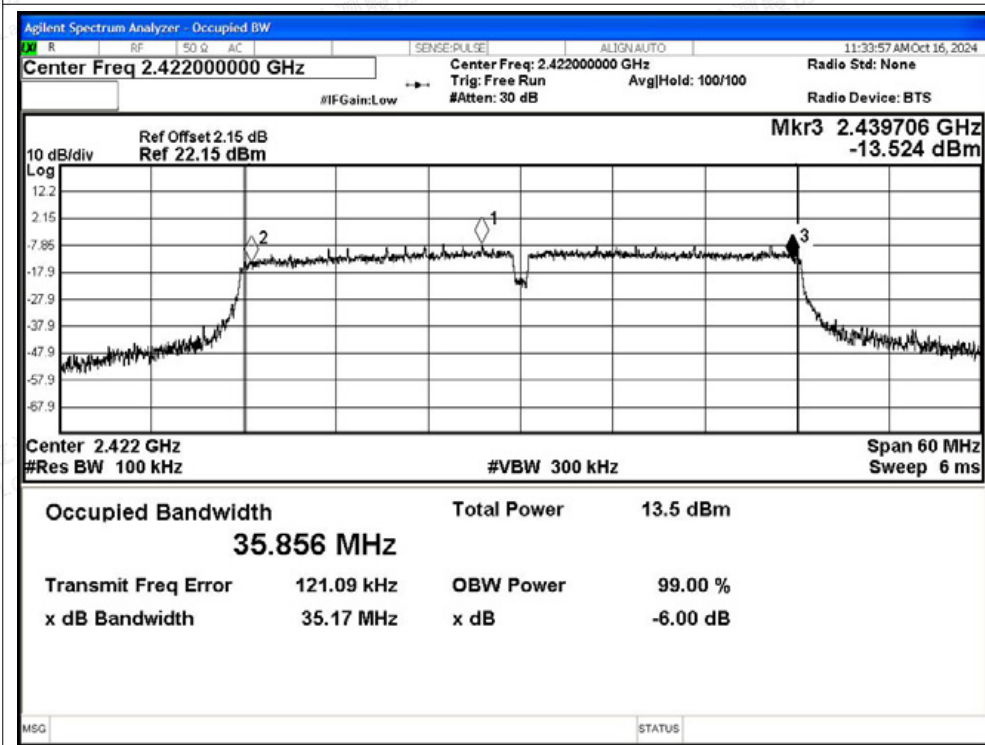




-6dB Bandwidth NVNT ax20 2462MHz Ant0



-6dB Bandwidth NVNT ax40 2422MHz Ant0



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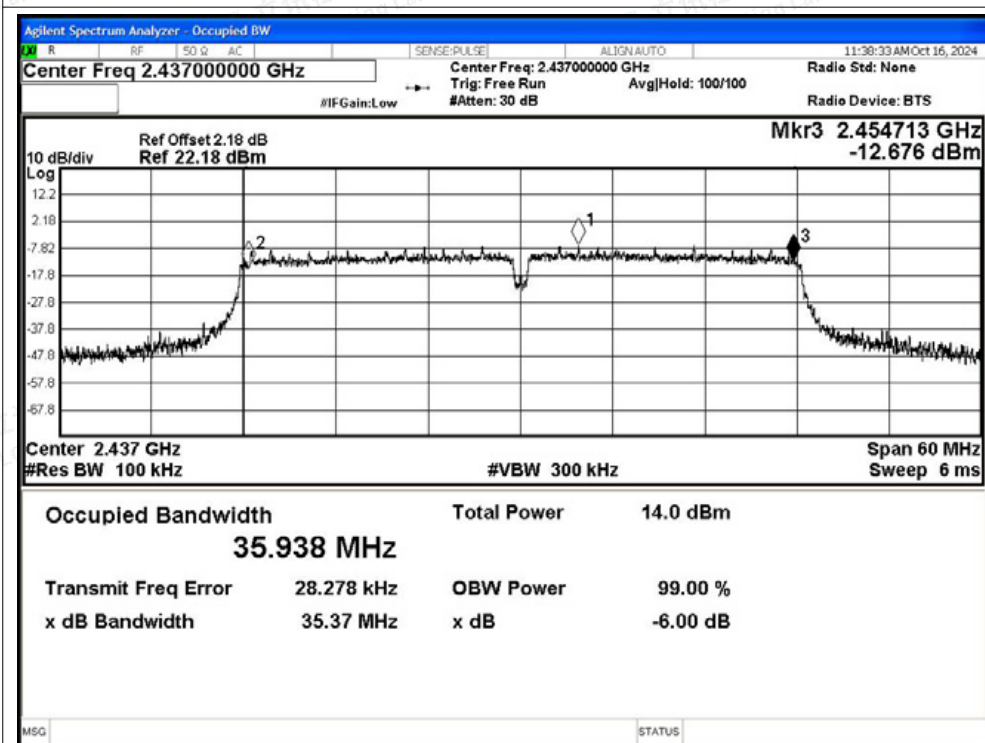
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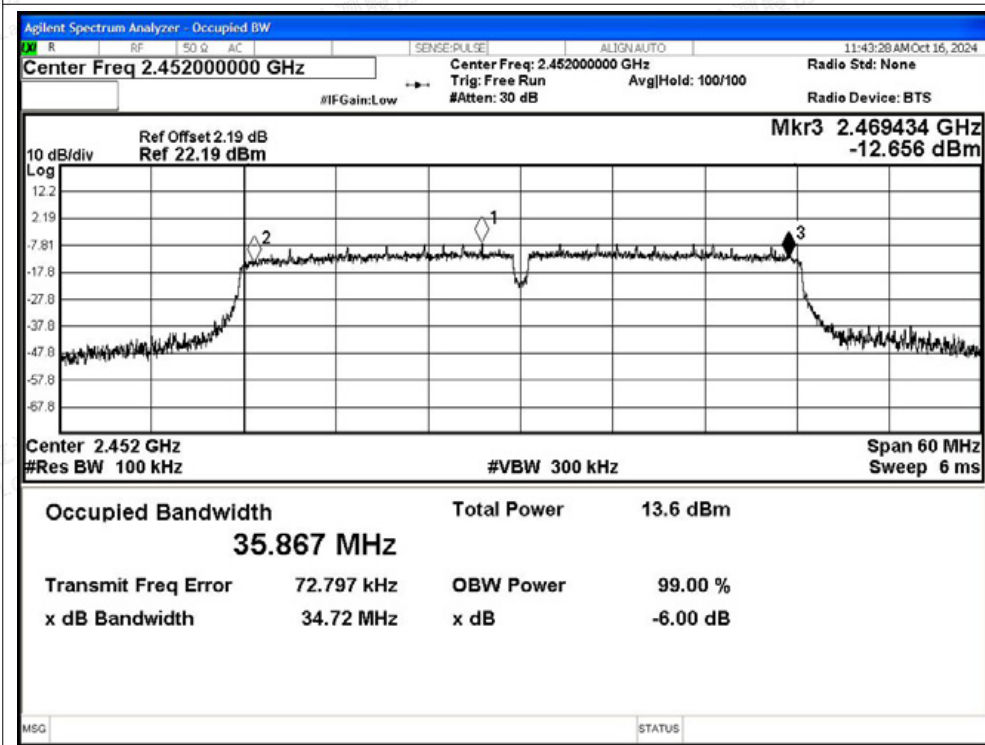
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-6dB Bandwidth NVNT ax40 2437MHz Ant0



-6dB Bandwidth NVNT ax40 2452MHz Ant0





Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	7.012	≥ 0.5	Pass
NVNT	b	2437	Ant1	8.109	≥ 0.5	Pass
NVNT	b	2462	Ant1	8.183	≥ 0.5	Pass
NVNT	g	2412	Ant1	15.724	≥ 0.5	Pass
NVNT	g	2437	Ant1	15.849	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.142	≥ 0.5	Pass
NVNT	n20	2412	Ant1	15.779	≥ 0.5	Pass
NVNT	n20	2437	Ant1	16.924	≥ 0.5	Pass
NVNT	n20	2462	Ant1	17.587	≥ 0.5	Pass
NVNT	n40	2422	Ant1	34.456	≥ 0.5	Pass
NVNT	n40	2437	Ant1	35.076	≥ 0.5	Pass
NVNT	n40	2452	Ant1	31.262	≥ 0.5	Pass
NVNT	ax20	2412	Ant1	16.897	≥ 0.5	Pass
NVNT	ax20	2437	Ant1	17.255	≥ 0.5	Pass
NVNT	ax20	2462	Ant1	17.12	≥ 0.5	Pass
NVNT	ax40	2422	Ant1	35.327	≥ 0.5	Pass
NVNT	ax40	2437	Ant1	35.593	≥ 0.5	Pass
NVNT	ax40	2452	Ant1	35.456	≥ 0.5	Pass



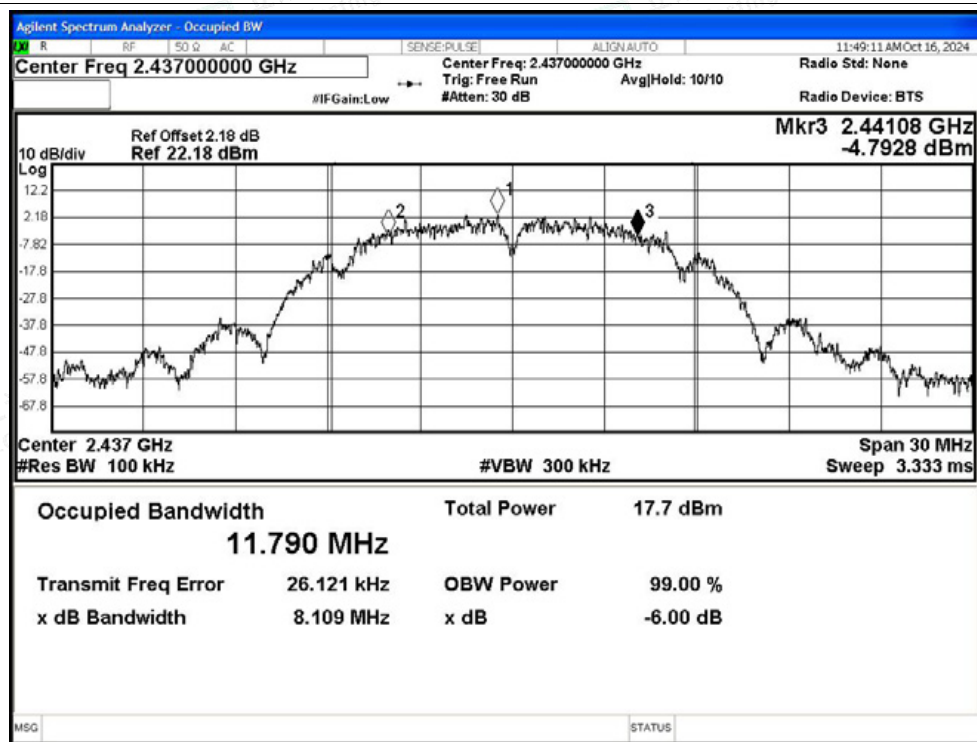


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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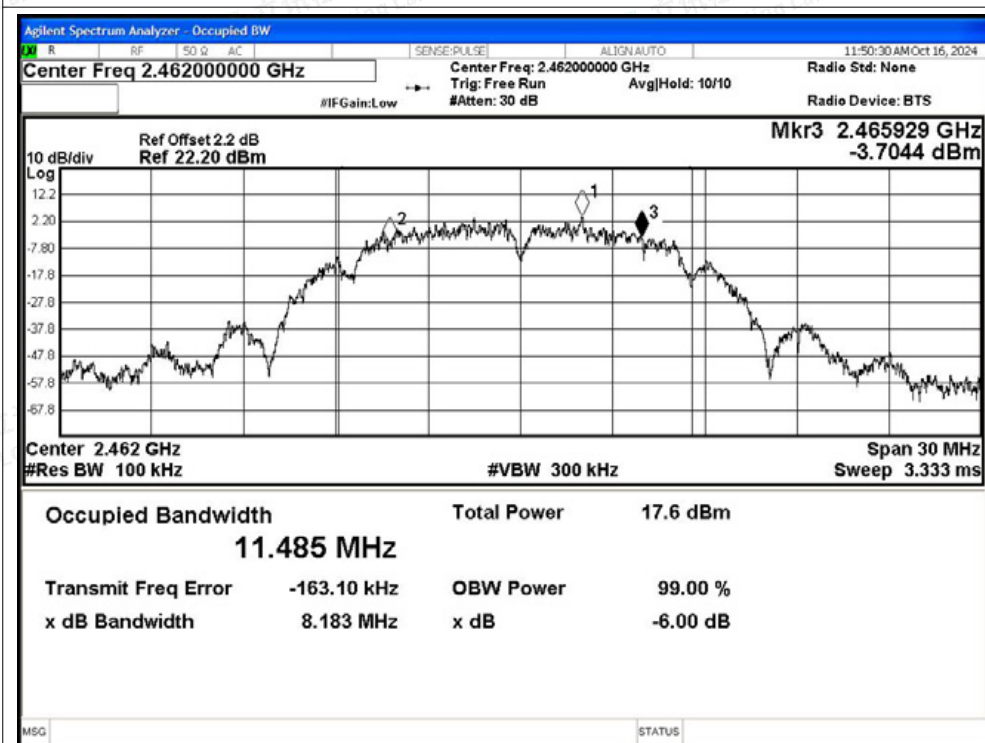
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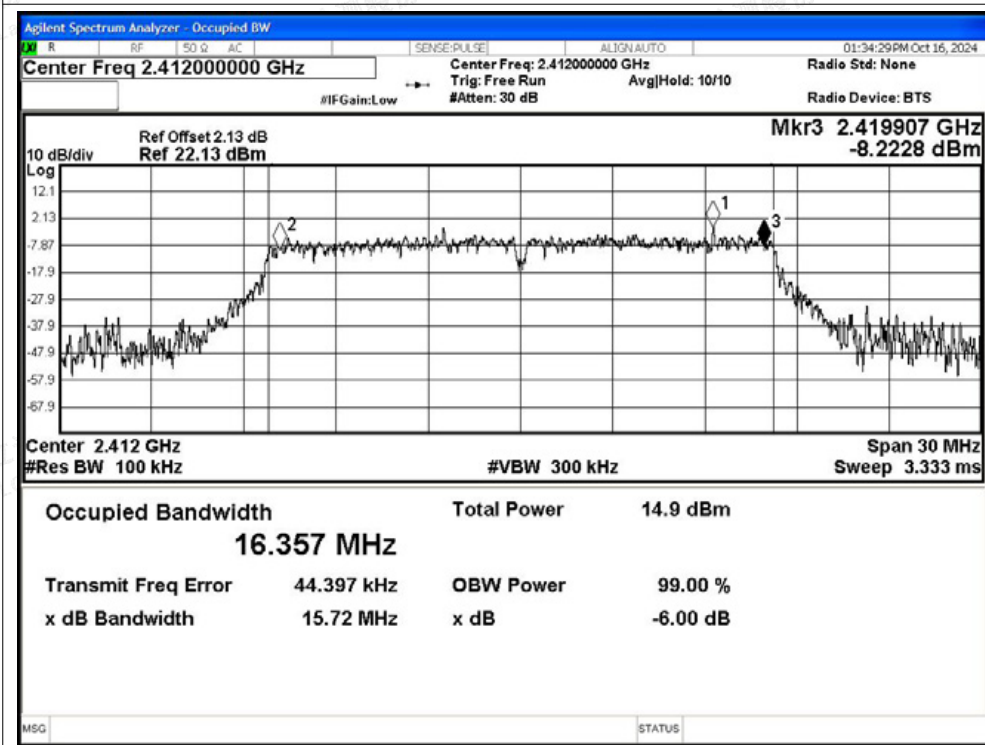
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



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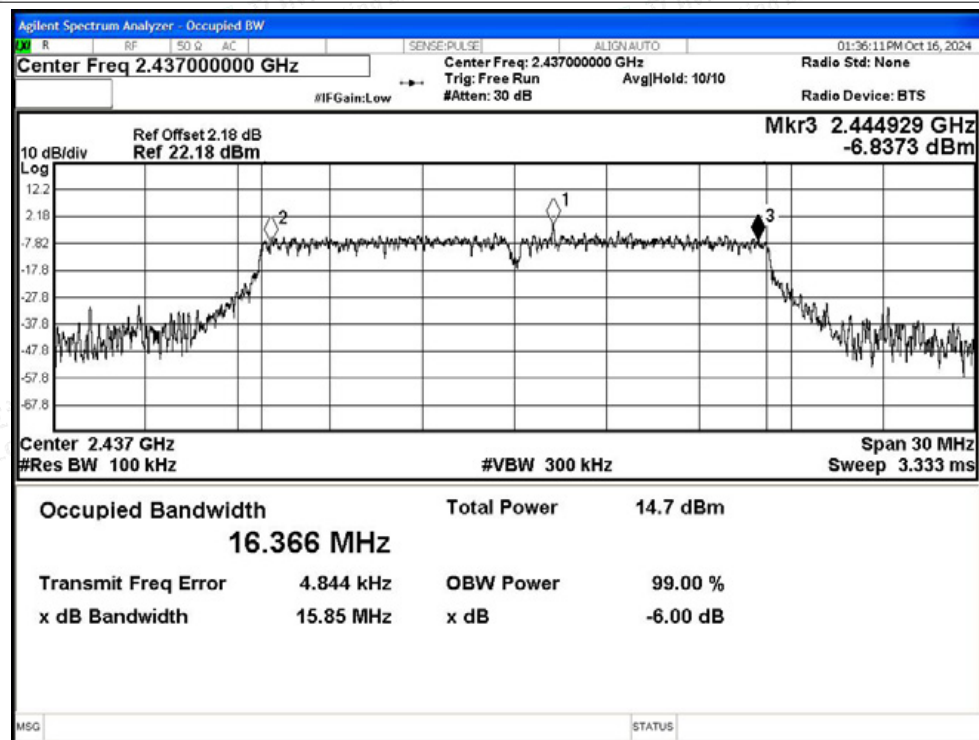
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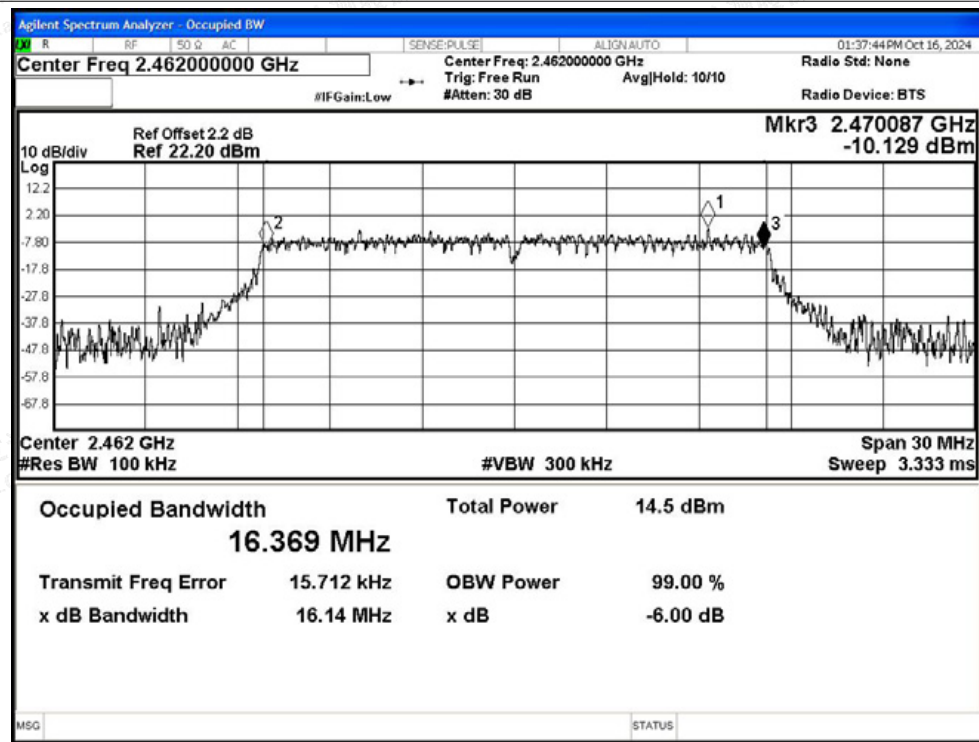
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-6dB Bandwidth NVNT g 2437MHz Ant1

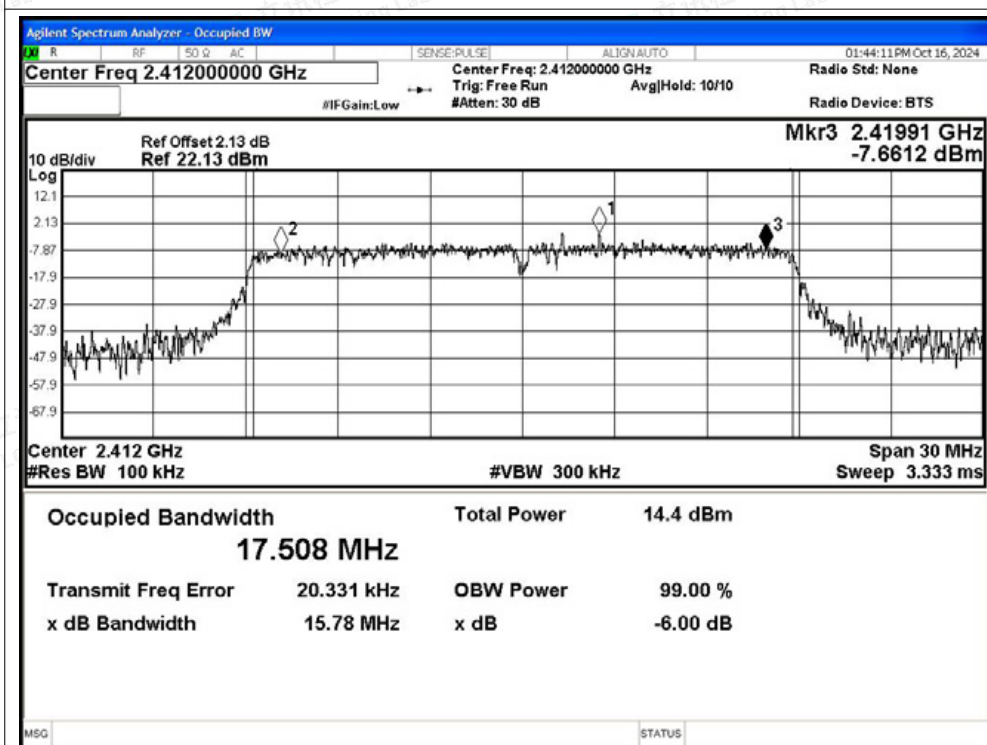


-6dB Bandwidth NVNT g 2462MHz Ant1

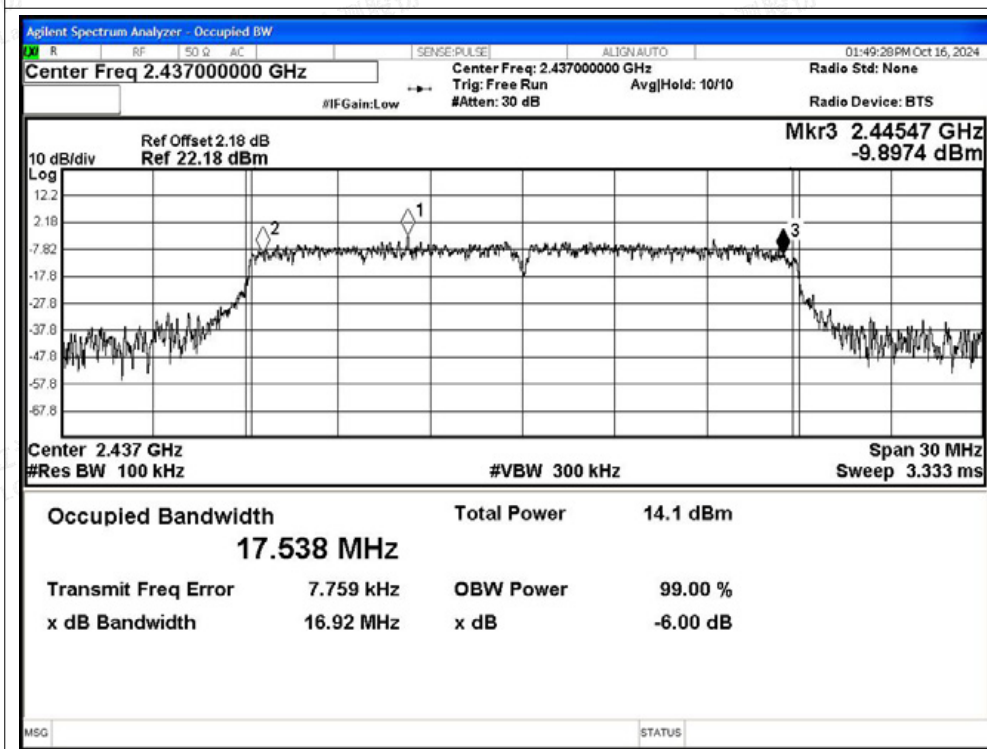




-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



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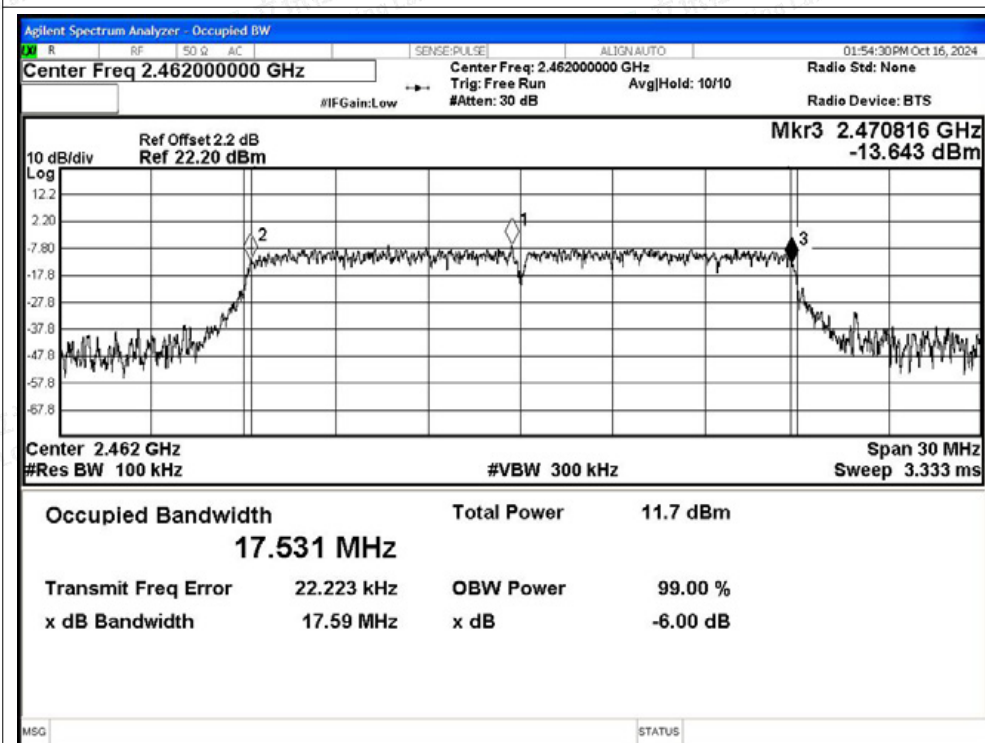
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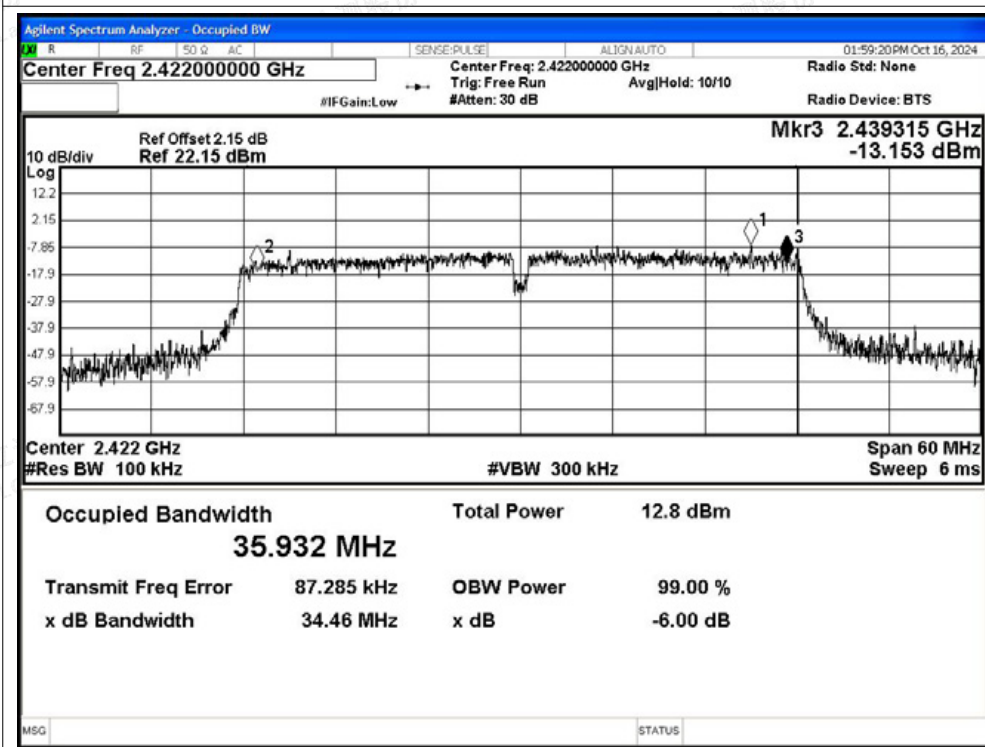
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-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1



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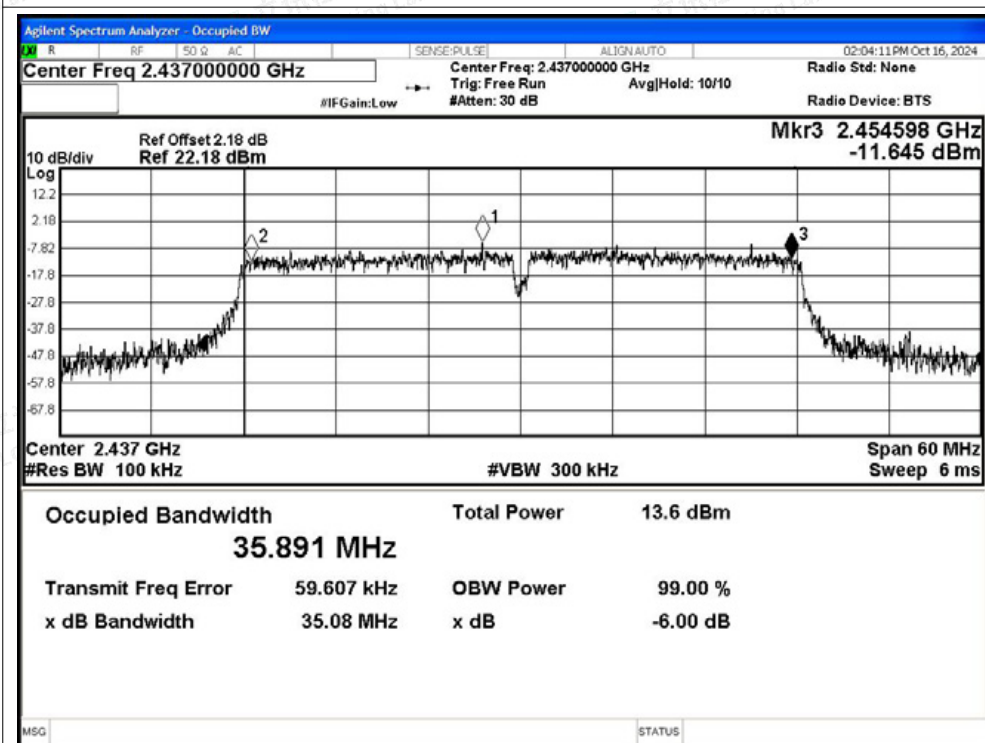
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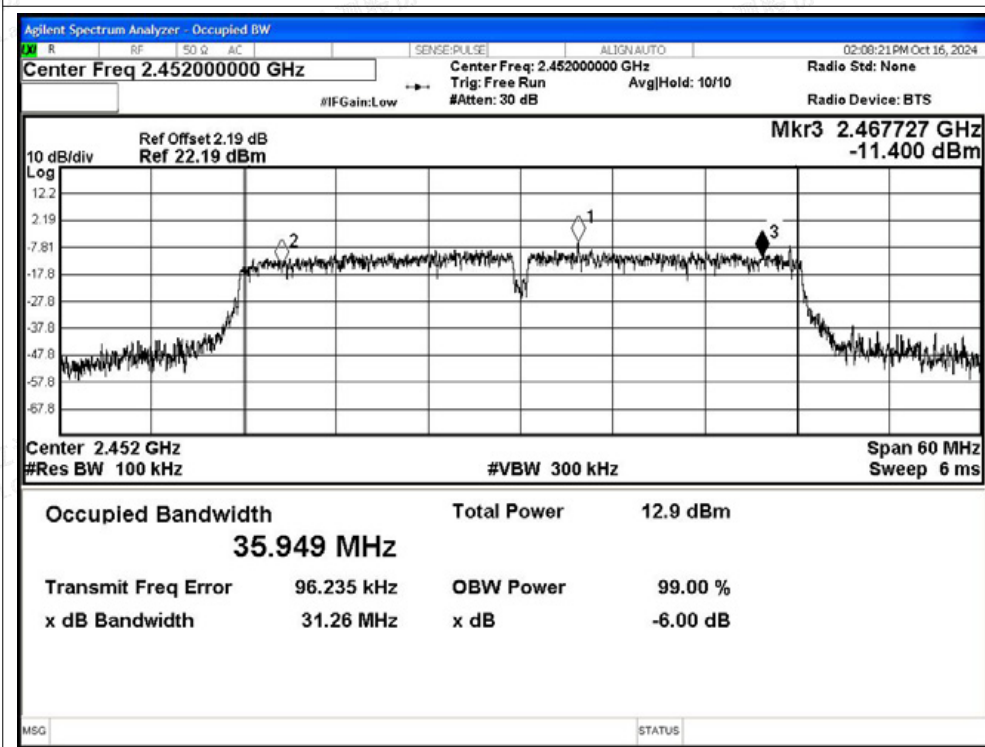
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-6dB Bandwidth NVNT n40 2437MHz Ant1

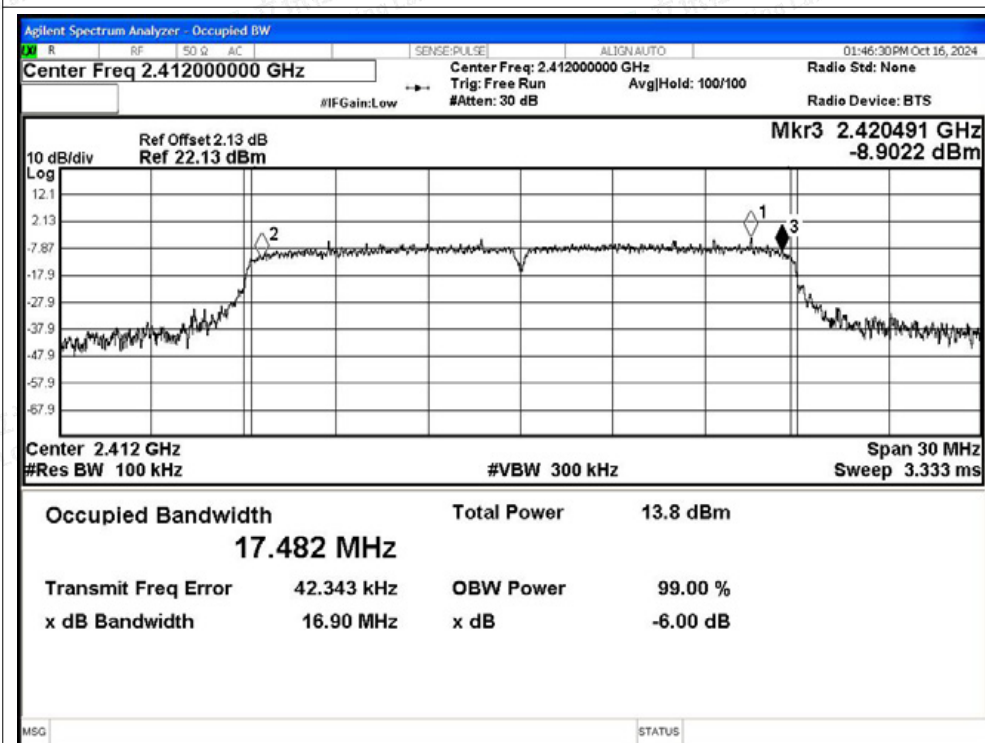


-6dB Bandwidth NVNT n40 2452MHz Ant1

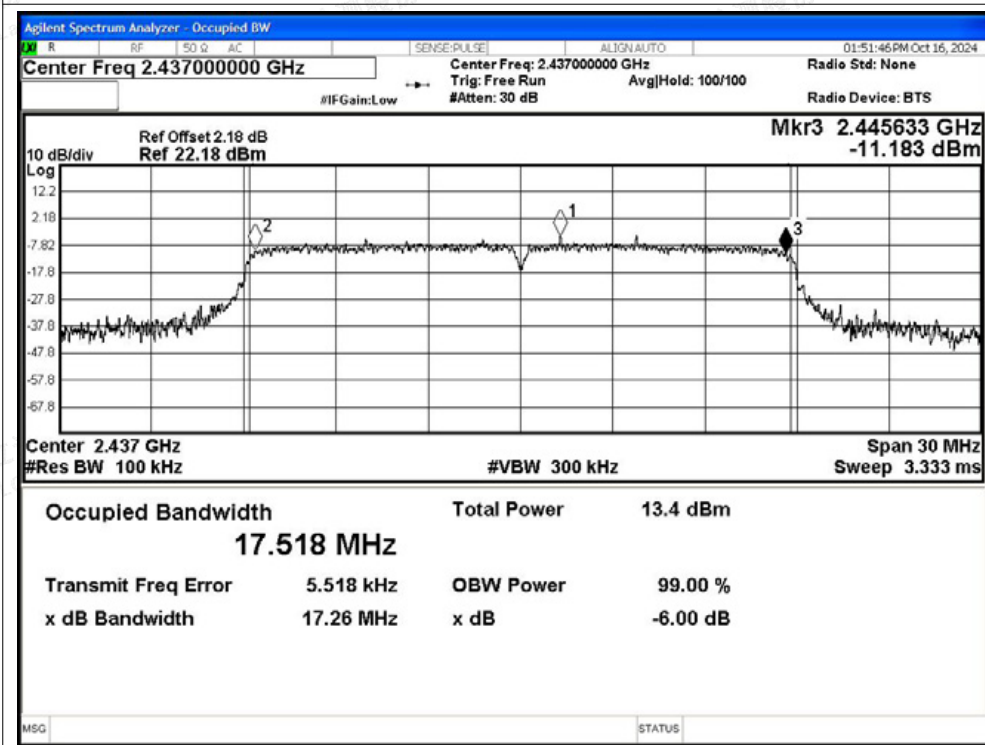




-6dB Bandwidth NVNT ax20 2412MHz Ant1



-6dB Bandwidth NVNT ax20 2437MHz Ant1



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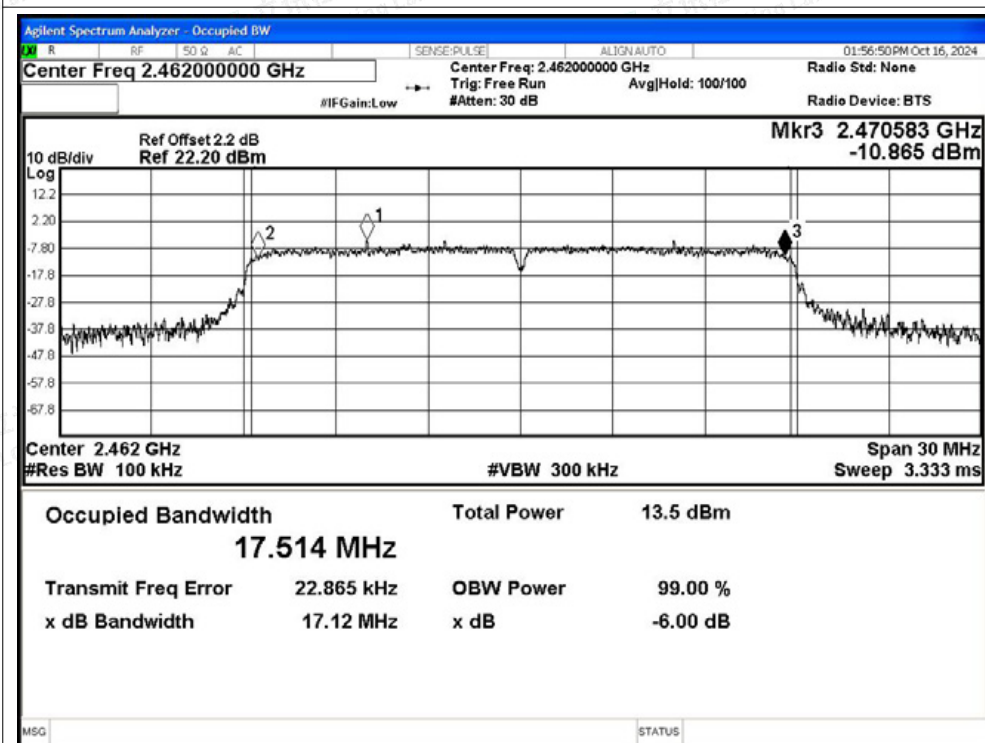
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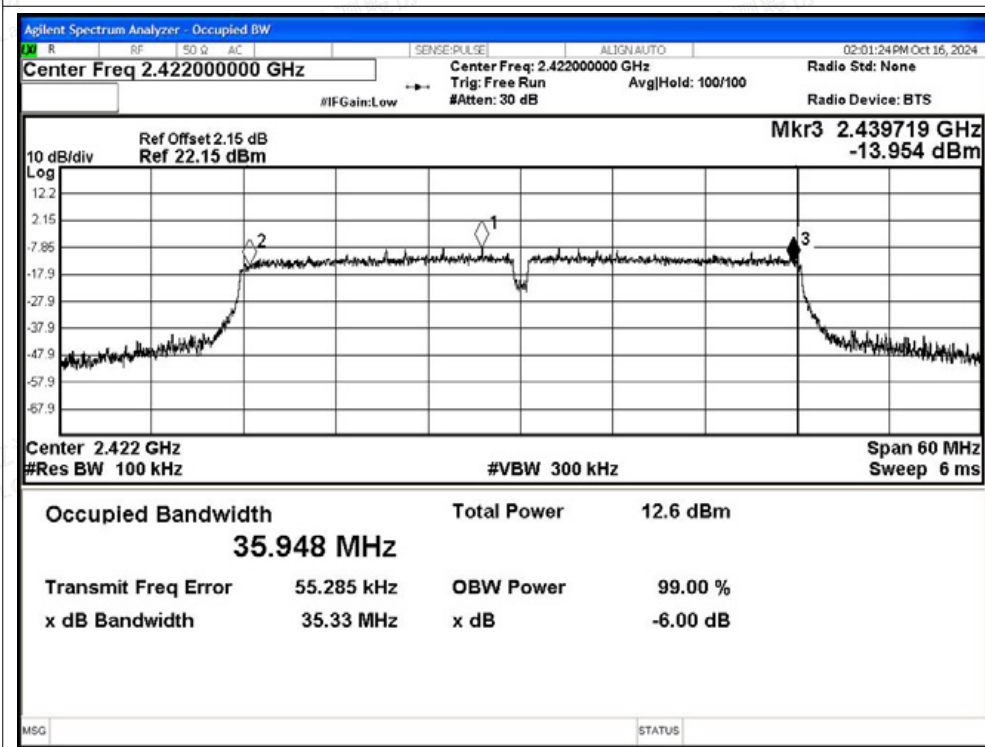
Scan code to check authenticity



-6dB Bandwidth NVNT ax20 2462MHz Ant1



-6dB Bandwidth NVNT ax40 2422MHz Ant1



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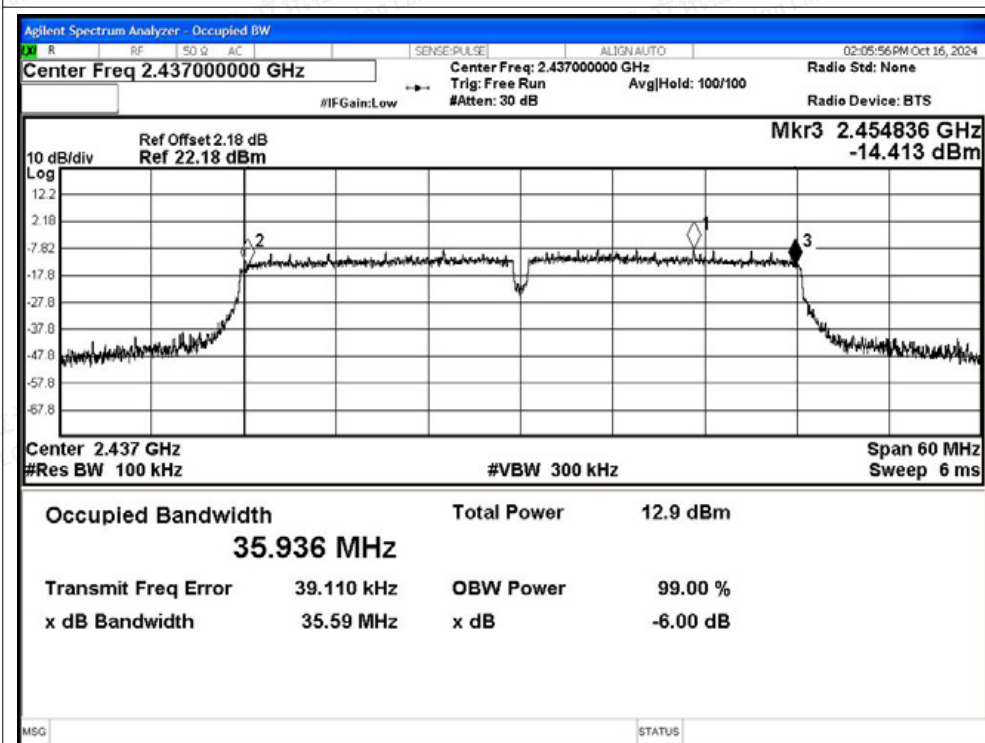
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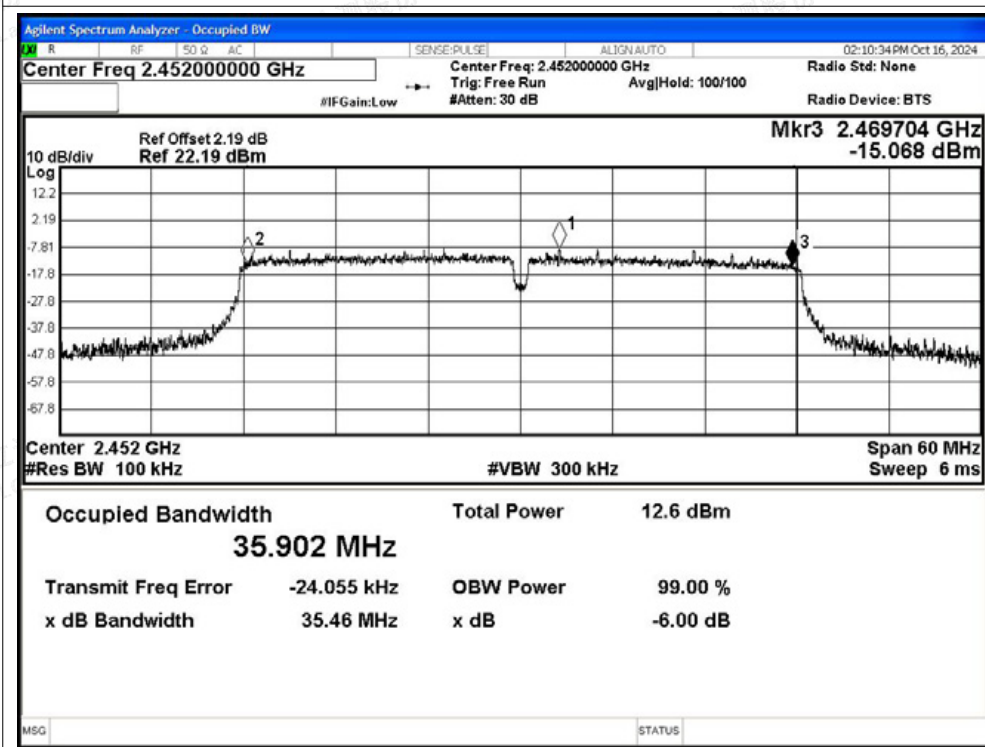
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-6dB Bandwidth NVNT ax40 2437MHz Ant1



-6dB Bandwidth NVNT ax40 2452MHz 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	Ant0	15.54	30	Pass
NVNT	b	2437	Ant0	15.21	30	Pass
NVNT	b	2462	Ant0	15.29	30	Pass
NVNT	g	2412	Ant0	14.52	30	Pass
NVNT	g	2437	Ant0	14.27	30	Pass
NVNT	g	2462	Ant0	14.26	30	Pass
NVNT	n20	2412	Ant0	13.89	30	Pass
NVNT	n20	2437	Ant0	13.59	30	Pass
NVNT	n20	2462	Ant0	13.45	30	Pass
NVNT	n40	2422	Ant0	12.42	30	Pass
NVNT	n40	2437	Ant0	12.68	30	Pass
NVNT	n40	2452	Ant0	12.3	30	Pass
NVNT	ax20	2412	Ant0	13.64	30	Pass
NVNT	ax20	2437	Ant0	13.45	30	Pass
NVNT	ax20	2462	Ant0	13.45	30	Pass
NVNT	ax40	2422	Ant0	12.02	30	Pass
NVNT	ax40	2437	Ant0	12.25	30	Pass
NVNT	ax40	2452	Ant0	12.06	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	14.63	30	Pass
NVNT	b	2437	Ant1	14.29	30	Pass
NVNT	b	2462	Ant1	14.26	30	Pass
NVNT	g	2412	Ant1	13.28	30	Pass
NVNT	g	2437	Ant1	13.27	30	Pass
NVNT	g	2462	Ant1	13.17	30	Pass
NVNT	n20	2412	Ant1	12.82	30	Pass
NVNT	n20	2437	Ant1	12.6	30	Pass
NVNT	n20	2462	Ant1	12.21	30	Pass
NVNT	n40	2422	Ant1	11.2	30	Pass
NVNT	n40	2437	Ant1	11.92	30	Pass
NVNT	n40	2452	Ant1	11.27	30	Pass
NVNT	ax20	2412	Ant1	12.52	30	Pass
NVNT	ax20	2437	Ant1	12.05	30	Pass
NVNT	ax20	2462	Ant1	12.27	30	Pass
NVNT	ax40	2422	Ant1	11.08	30	Pass
NVNT	ax40	2437	Ant1	11.41	30	Pass
NVNT	ax40	2452	Ant1	11.09	30	Pass



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MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	2412	13.89	12.82	16.40	30	Pass
NVNT	n20	2437	13.59	12.6	16.13	30	Pass
NVNT	n20	2462	13.45	12.21	15.88	30	Pass
NVNT	n40	2422	12.42	11.2	14.86	30	Pass
NVNT	n40	2437	12.68	11.92	15.33	30	Pass
NVNT	n40	2452	12.3	11.27	14.83	30	Pass
NVNT	ax20	2412	13.64	12.52	16.13	30	Pass
NVNT	ax 20	2437	13.45	12.05	15.82	30	Pass
NVNT	ax 20	2462	13.45	12.27	15.91	30	Pass
NVNT	ax 40	2422	12.02	11.08	14.59	30	Pass
NVNT	ax 40	2437	12.25	11.41	14.86	30	Pass
NVNT	ax 40	2452	12.06	11.09	14.61	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	Ant0	-8.19	8	Pass
NVNT	b	2437	Ant0	-8.56	8	Pass
NVNT	b	2462	Ant0	-9.51	8	Pass
NVNT	g	2412	Ant0	-14.44	8	Pass
NVNT	g	2437	Ant0	-15.05	8	Pass
NVNT	g	2462	Ant0	-14.51	8	Pass
NVNT	n20	2412	Ant0	-15.42	8	Pass
NVNT	n20	2437	Ant0	-14.24	8	Pass
NVNT	n20	2462	Ant0	-15.52	8	Pass
NVNT	n40	2422	Ant0	-18.06	8	Pass
NVNT	n40	2437	Ant0	-18.91	8	Pass
NVNT	n40	2452	Ant0	-18.95	8	Pass
NVNT	ax20	2412	Ant0	-16.08	8	Pass
NVNT	ax20	2437	Ant0	-16.32	8	Pass
NVNT	ax20	2462	Ant0	-16.89	8	Pass
NVNT	ax40	2422	Ant0	-21.63	8	Pass
NVNT	ax40	2437	Ant0	-21.08	8	Pass
NVNT	ax40	2452	Ant0	-21.07	8	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-9.27	8	Pass
NVNT	b	2437	Ant1	-6.99	8	Pass
NVNT	b	2462	Ant1	-10.37	8	Pass
NVNT	g	2412	Ant1	-15.33	8	Pass
NVNT	g	2437	Ant1	-15.08	8	Pass
NVNT	g	2462	Ant1	-15.42	8	Pass
NVNT	n20	2412	Ant1	-15.29	8	Pass
NVNT	n20	2437	Ant1	-15.44	8	Pass
NVNT	n20	2462	Ant1	-18.7	8	Pass
NVNT	n40	2422	Ant1	-20.54	8	Pass
NVNT	n40	2437	Ant1	-19.45	8	Pass
NVNT	n40	2452	Ant1	-20.61	8	Pass
NVNT	ax20	2412	Ant1	-17.85	8	Pass
NVNT	ax20	2437	Ant1	-16.93	8	Pass
NVNT	ax20	2462	Ant1	-17.84	8	Pass
NVNT	ax40	2422	Ant1	-22.42	8	Pass
NVNT	ax40	2437	Ant1	-21.53	8	Pass
NVNT	ax40	2452	Ant1	-22.25	8	Pass



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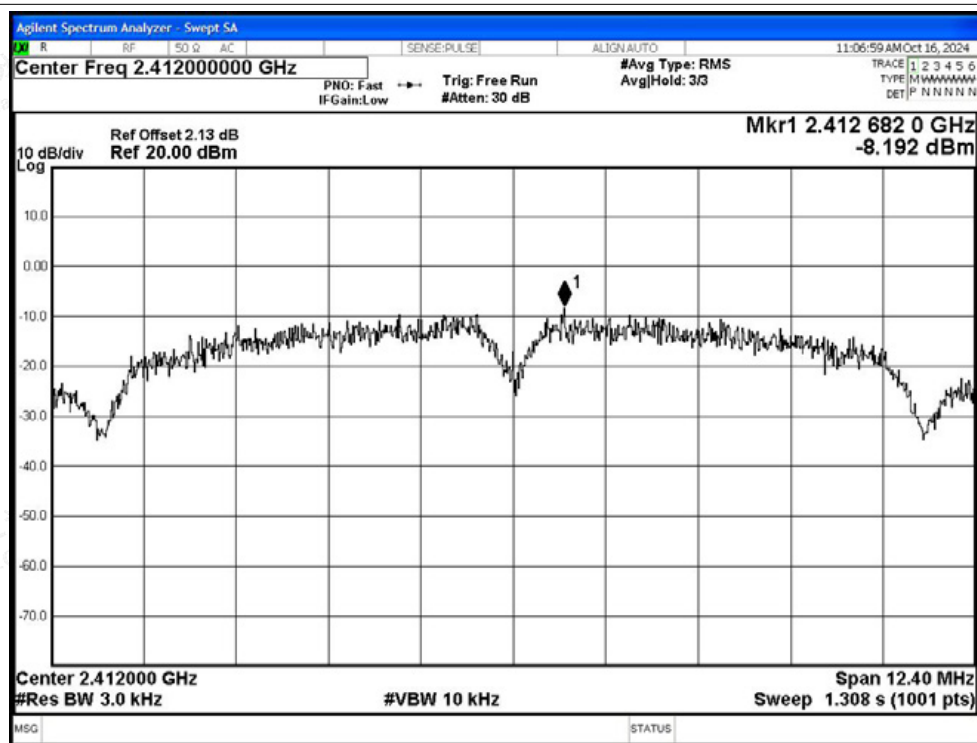


MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/3kHz)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	2412	-15.42	-15.29	-12.34	6.85	Pass
NVNT	n20	2437	-14.24	-15.44	-11.79	6.85	Pass
NVNT	n20	2462	-15.52	-18.7	-13.81	6.85	Pass
NVNT	n40	2422	-18.06	-20.54	-16.12	6.85	Pass
NVNT	n40	2437	-18.91	-19.45	-16.16	6.85	Pass
NVNT	n40	2452	-18.95	-20.61	-16.69	6.85	Pass
NVNT	ax20	2412	-16.08	-17.85	-13.87	6.85	Pass
NVNT	ax 20	2437	-16.32	-16.93	-13.60	6.85	Pass
NVNT	ax 20	2462	-16.89	-17.84	-14.33	6.85	Pass
NVNT	ax 40	2422	-21.63	-22.42	-19.00	6.85	Pass
NVNT	ax 40	2437	-21.08	-21.53	-18.29	6.85	Pass
NVNT	ax 40	2452	-21.07	-22.25	-18.61	6.85	Pass

Test Graphs

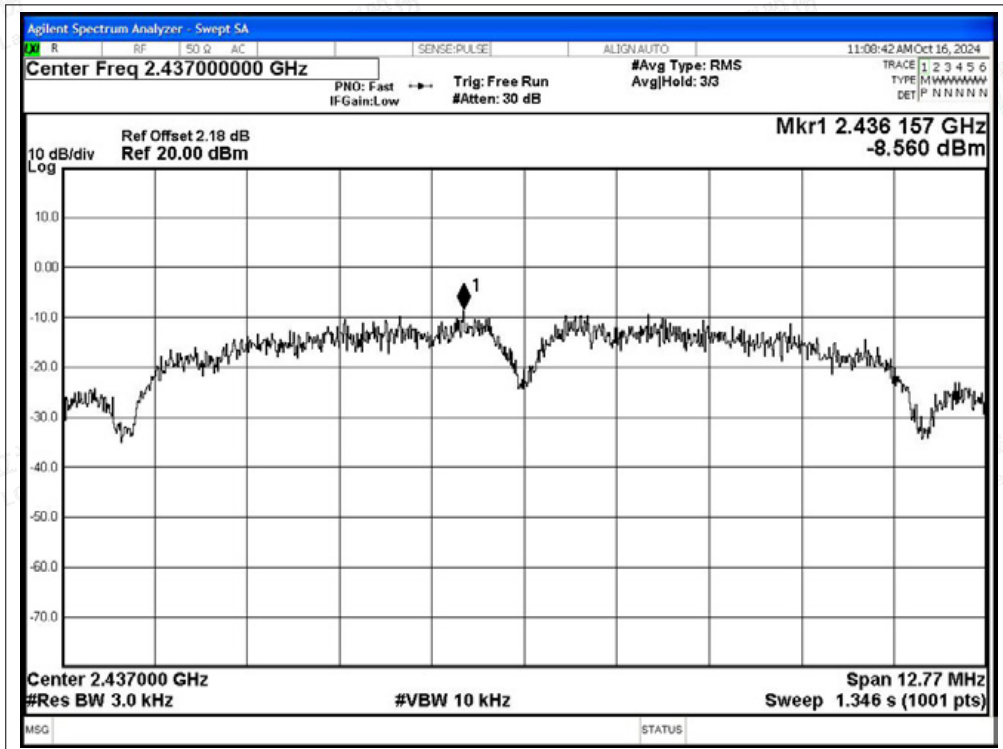
PSD NVNT b 2412MHz Ant0



PSD NVNT b 2437MHz Ant0

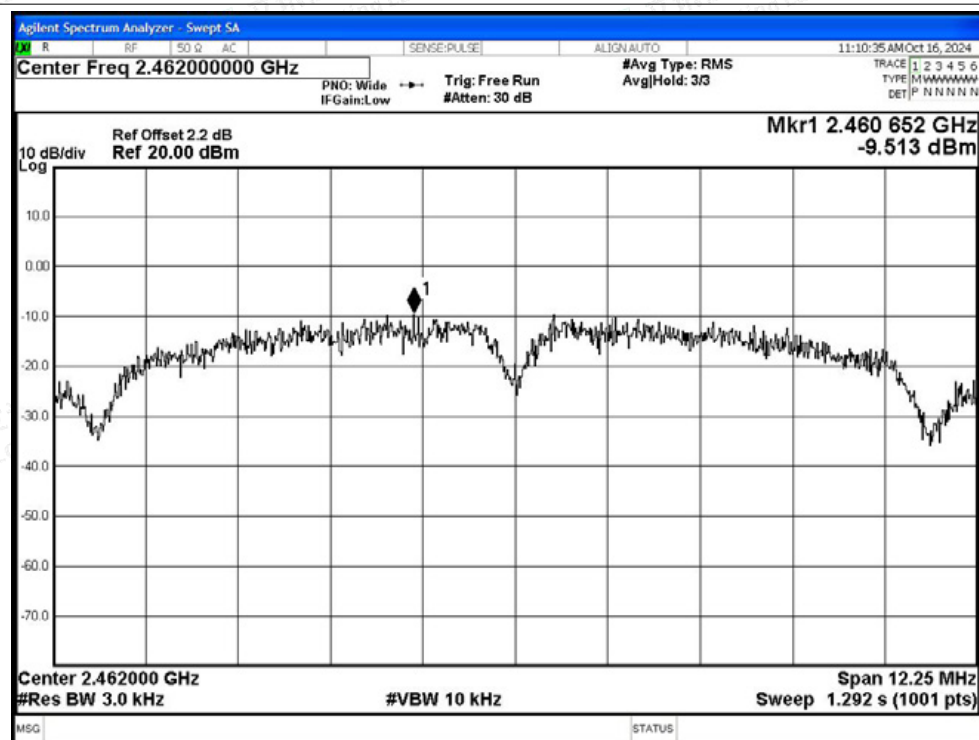


Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

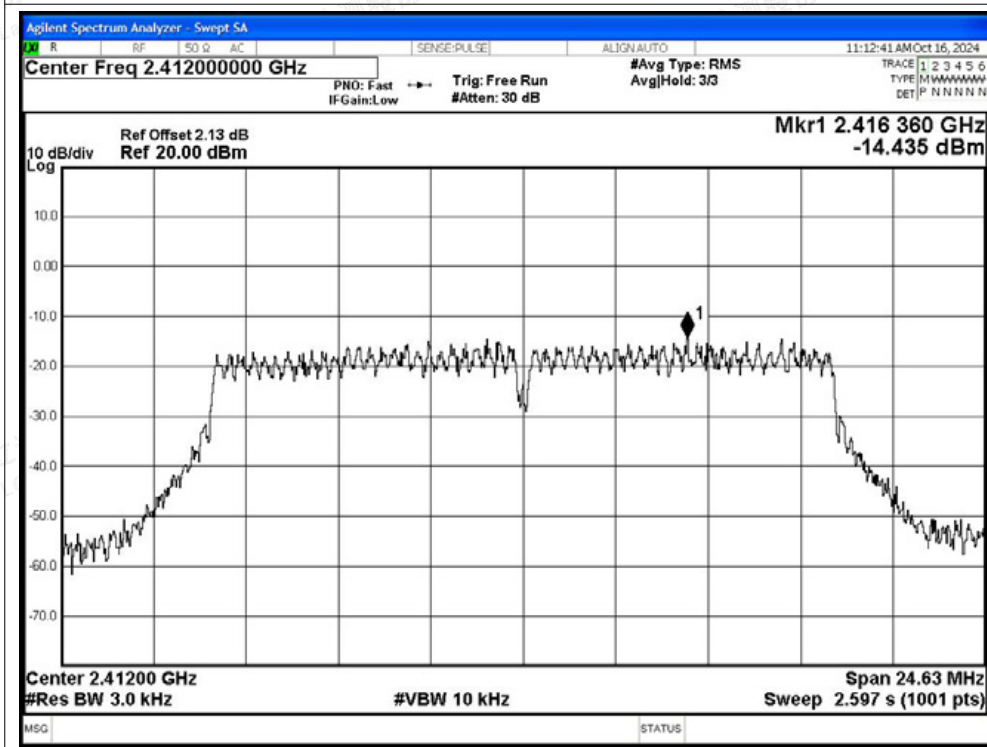




PSD NVNT b 2462MHz Ant0

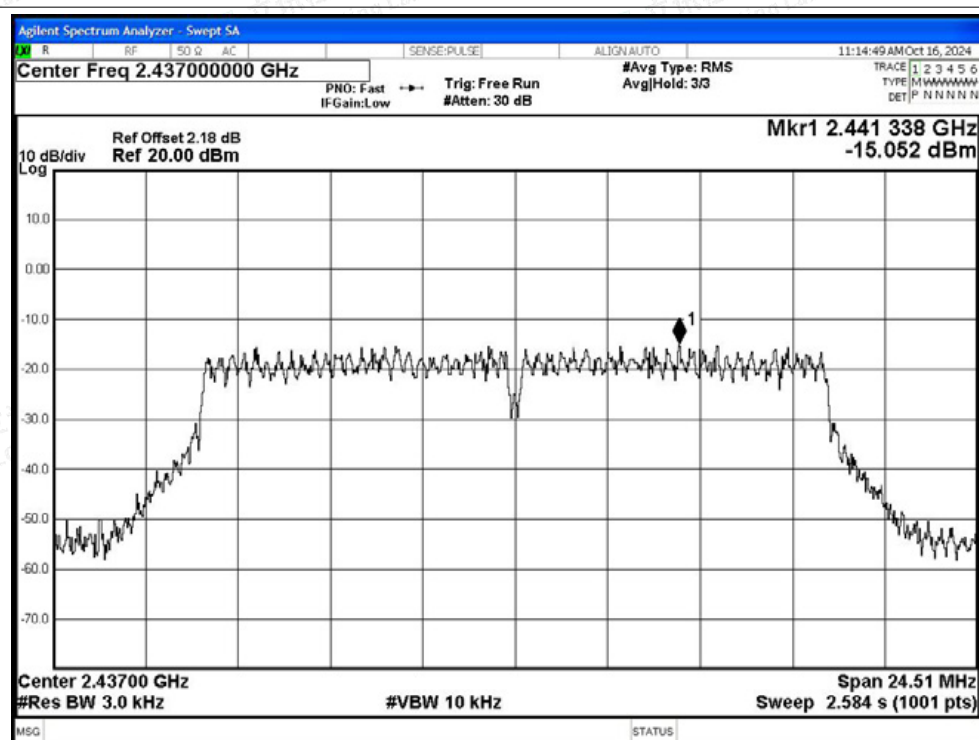


PSD NVNT g 2412MHz Ant0

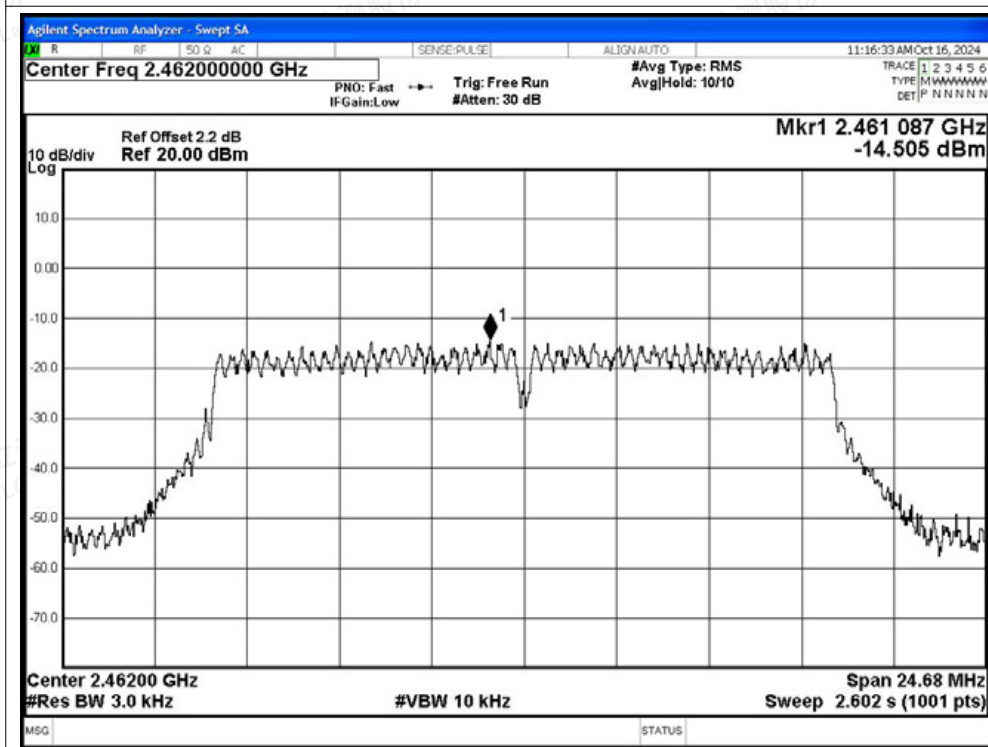




PSD NVNT g 2437MHz Ant0

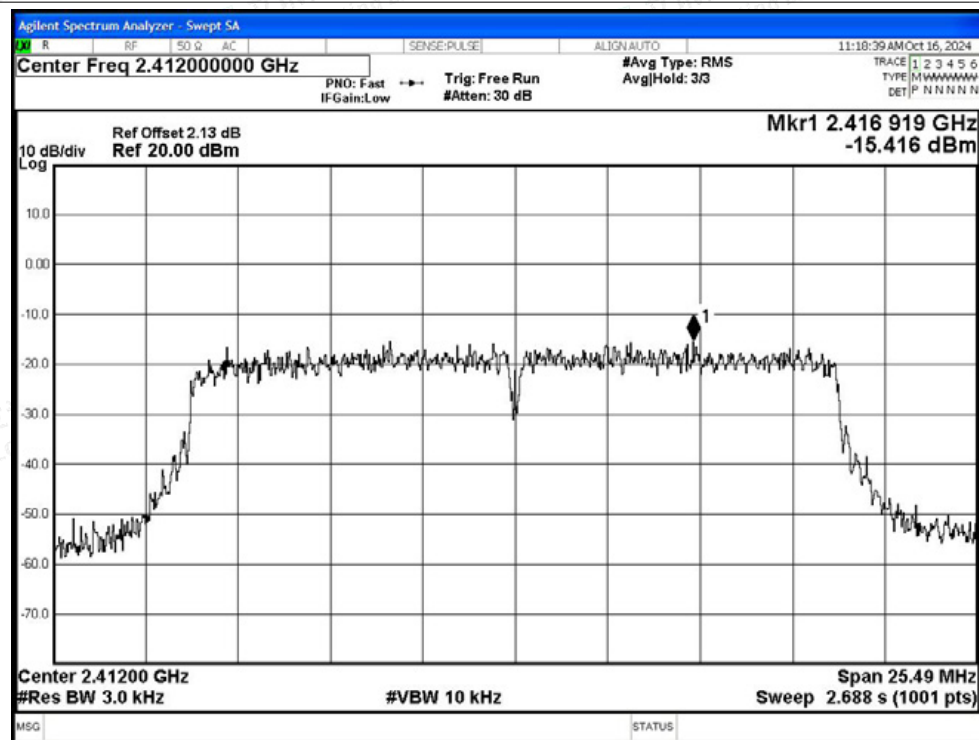


PSD NVNT g 2462MHz Ant0

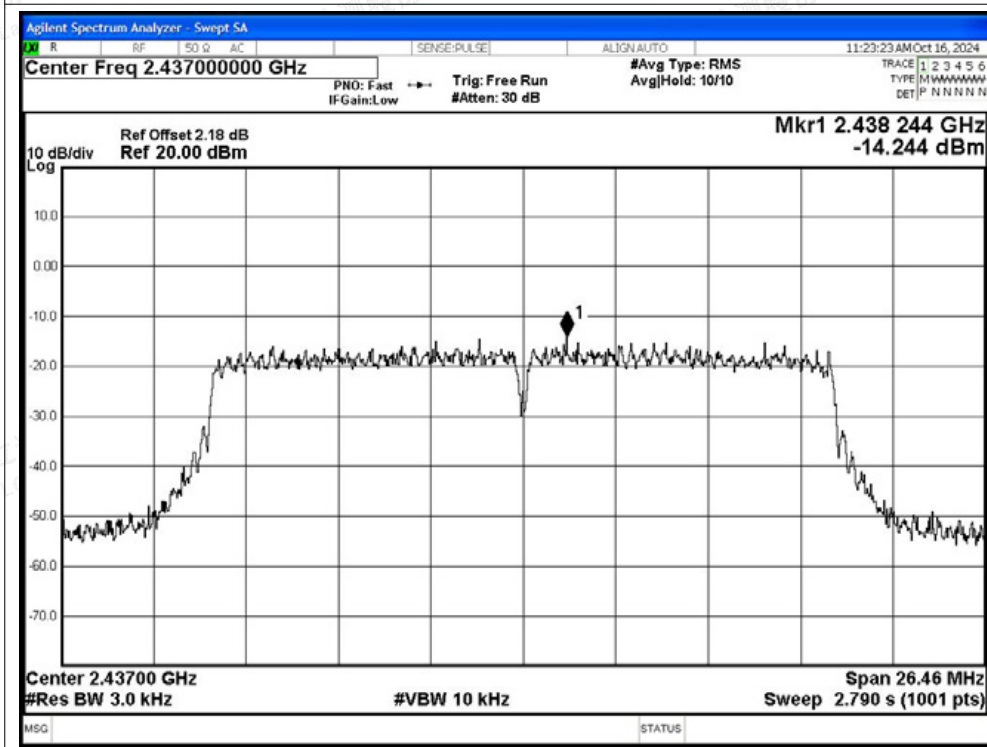




PSD NVNT n20 2412MHz Ant0

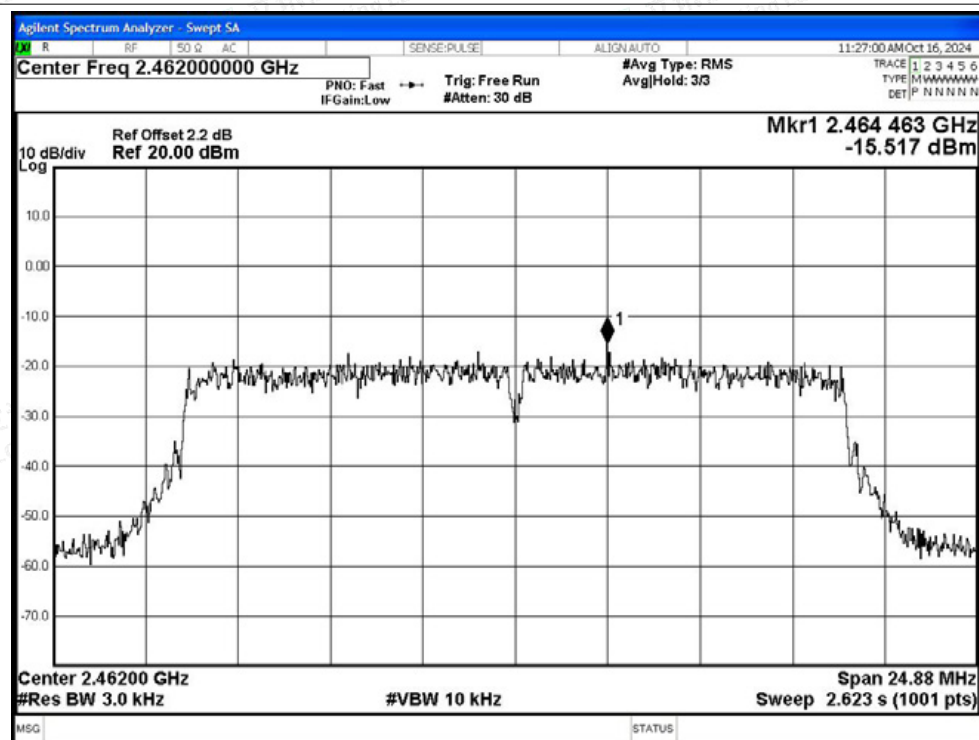


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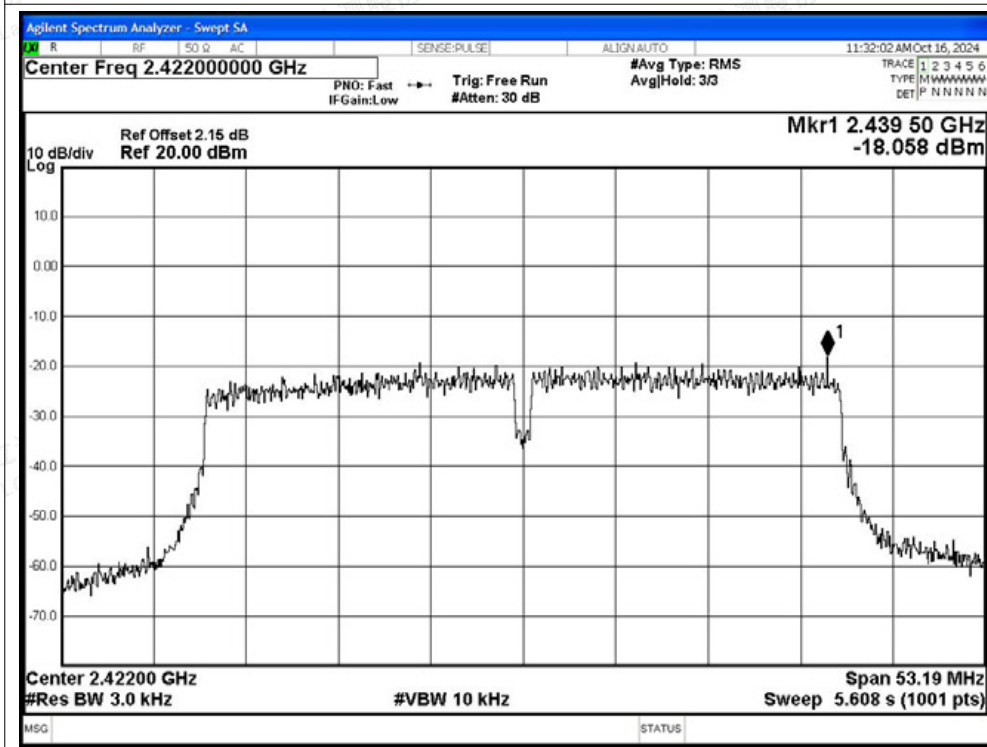




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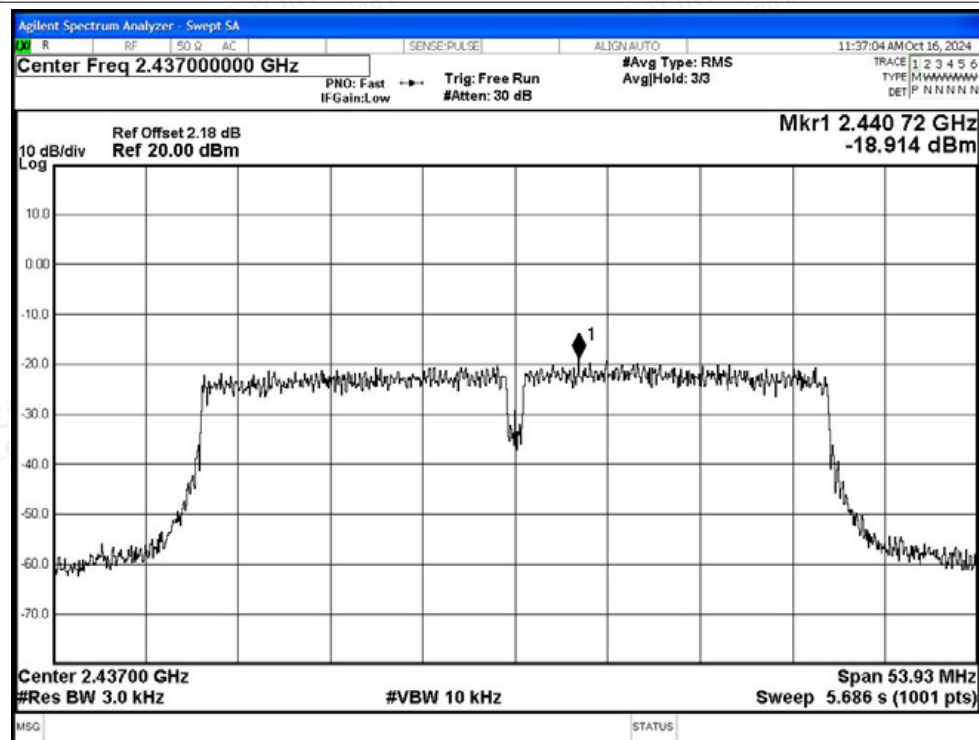


PSD NVNT n40 2422MHz Ant0

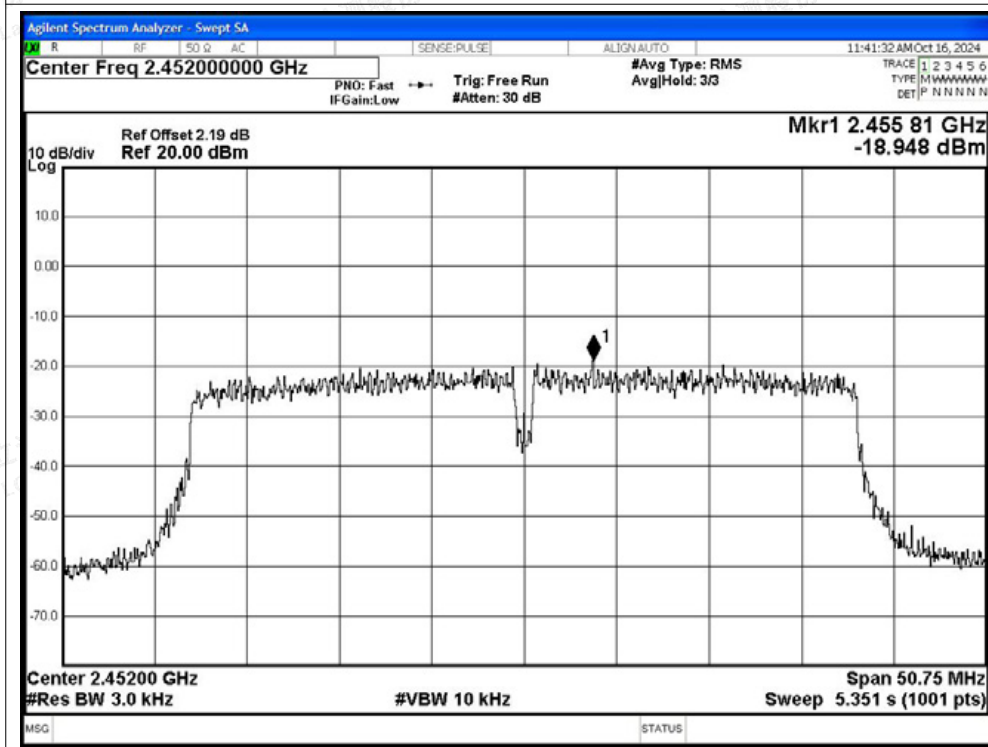




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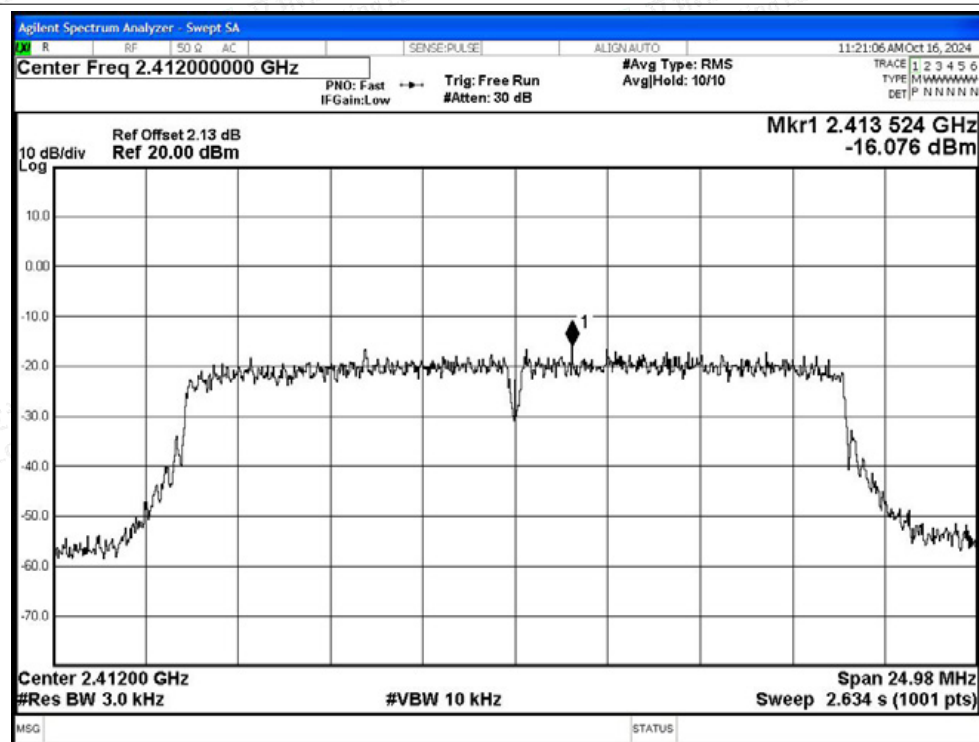


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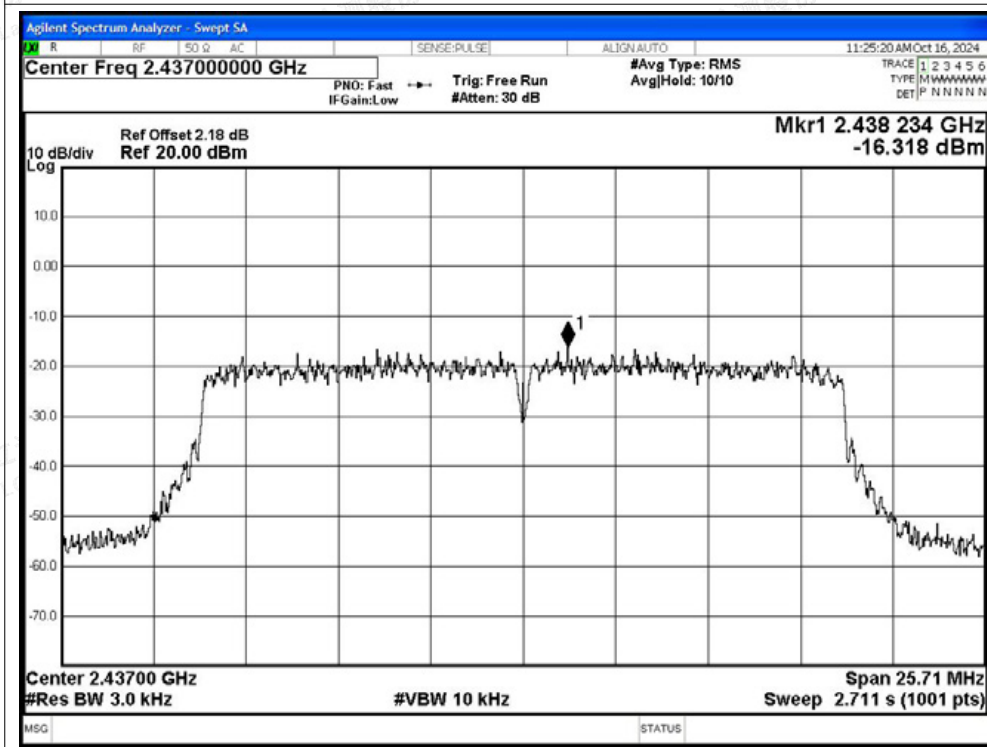




PSD NVNT ax20 2412MHz Ant0

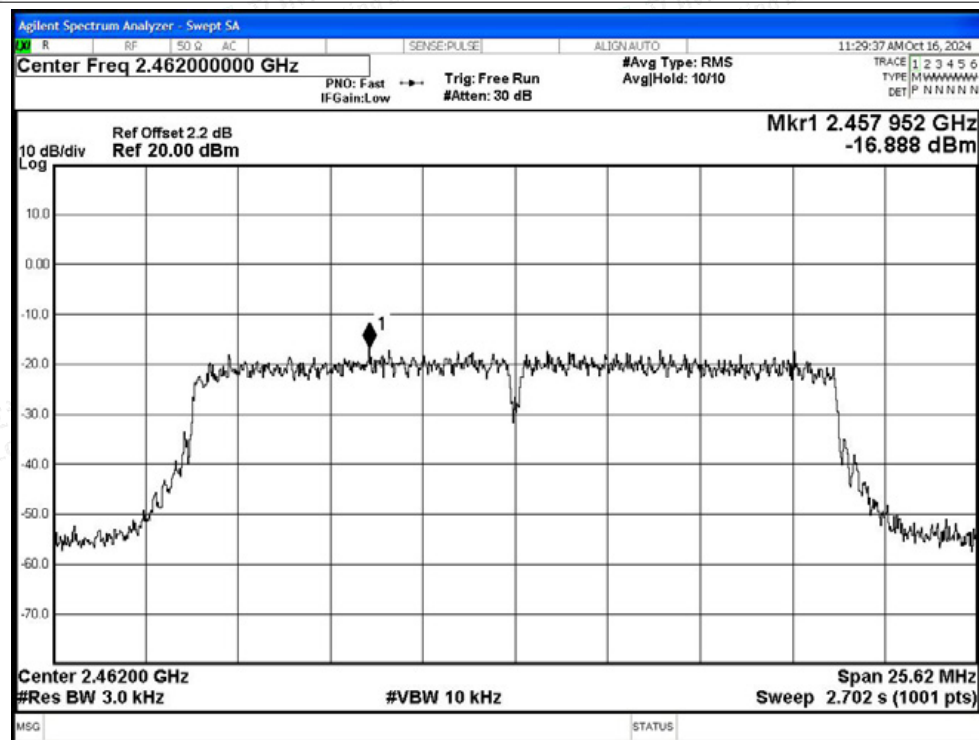


PSD NVNT ax20 2437MHz Ant0

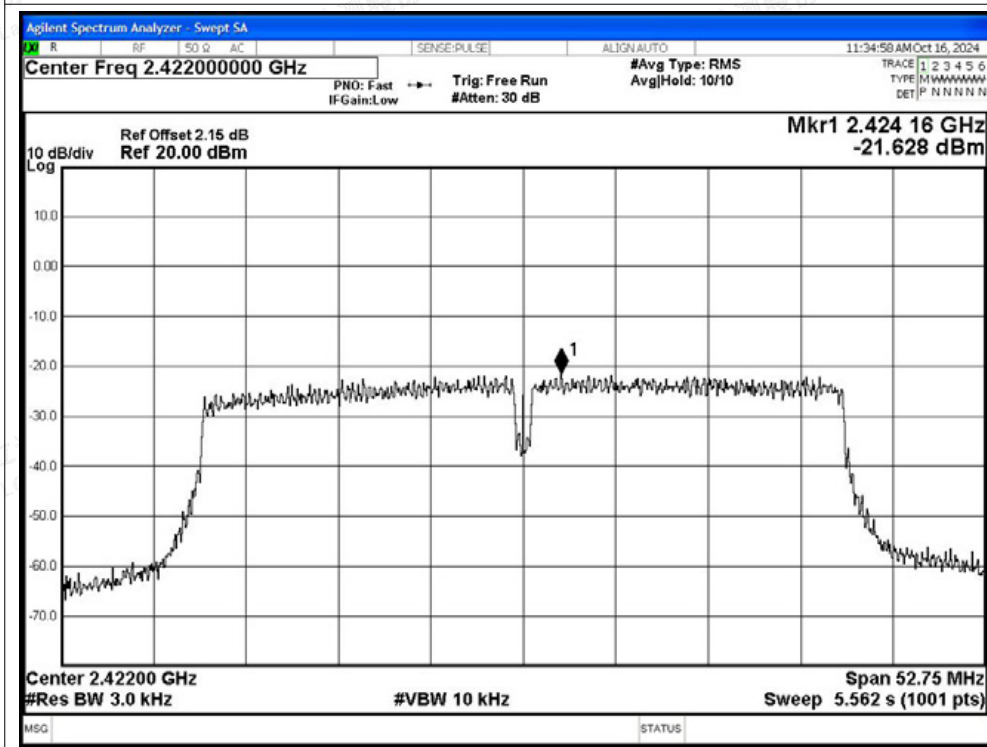




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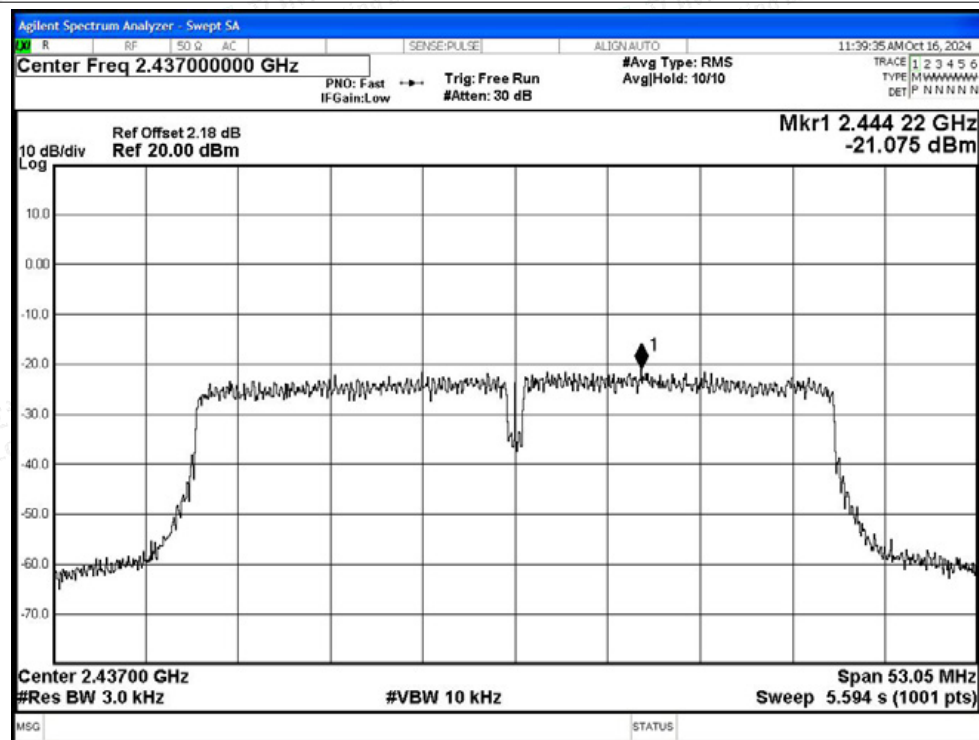


PSD NVNT ax40 2422MHz Ant0

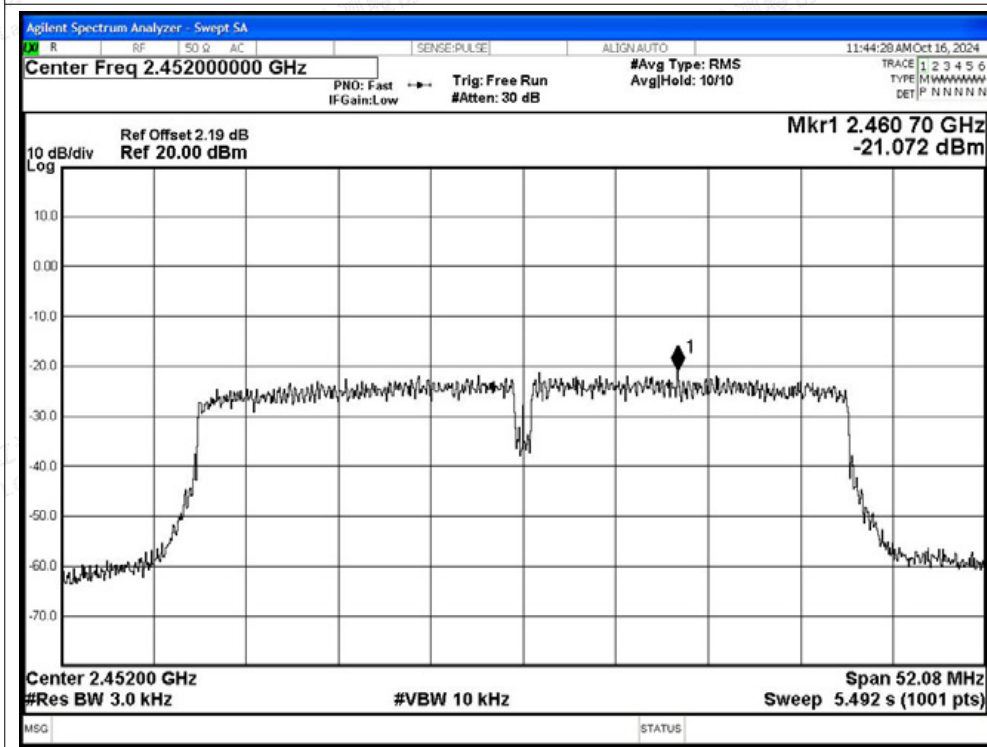




PSD NVNT ax40 2437MHz Ant0



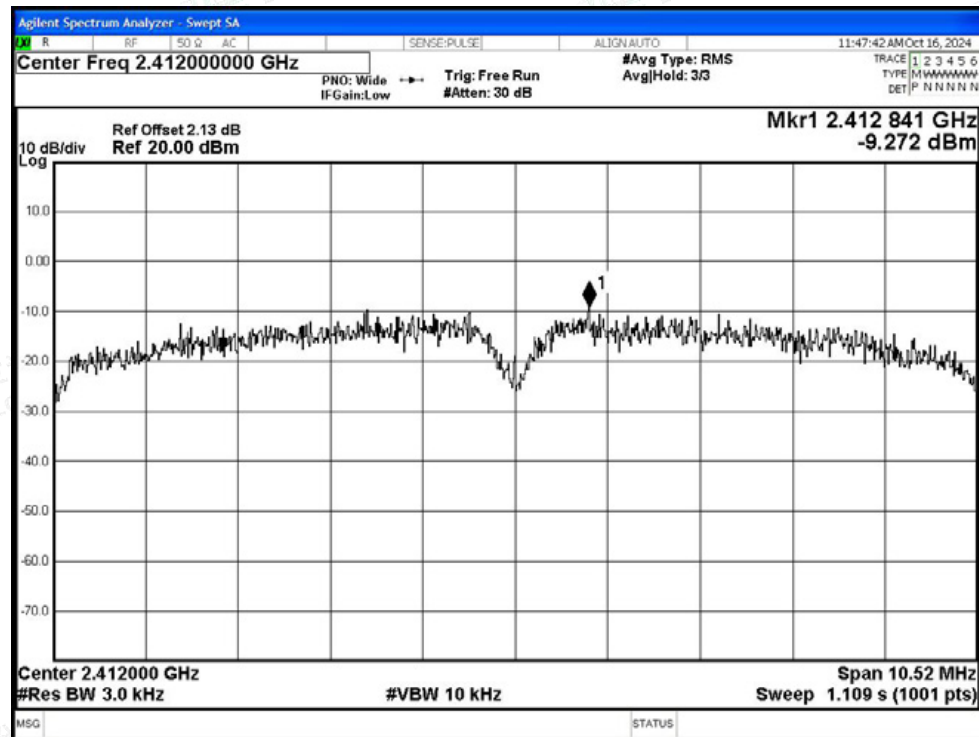
PSD NVNT ax40 2452MHz Ant0



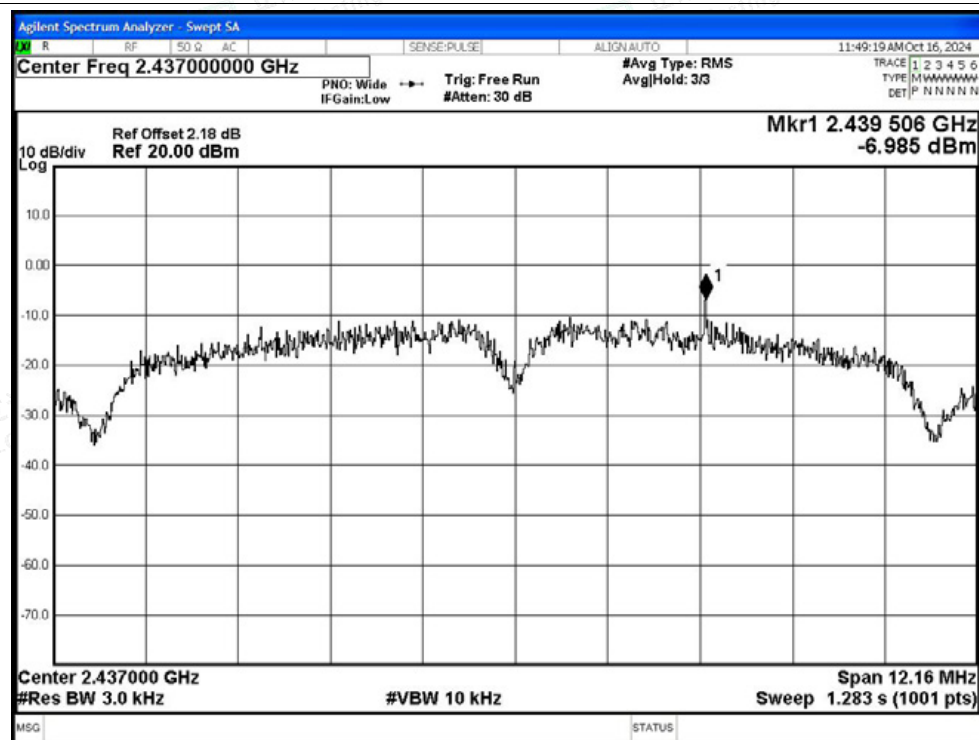


Test Graphs

PSD NVNT b 2412MHz Ant1

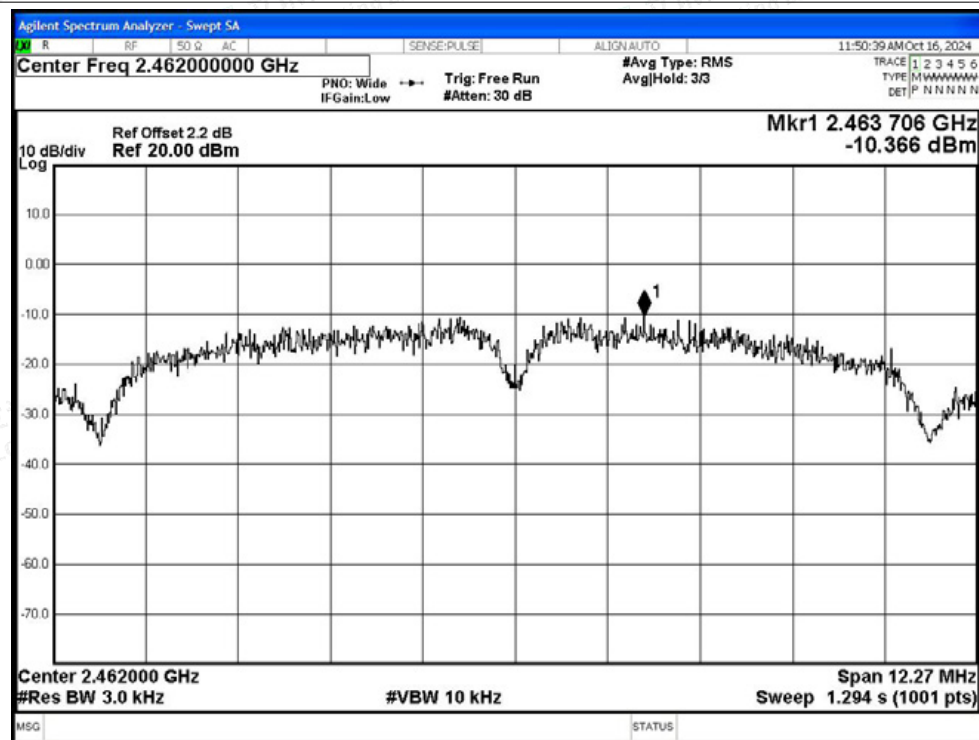


PSD NVNT b 2437MHz Ant1

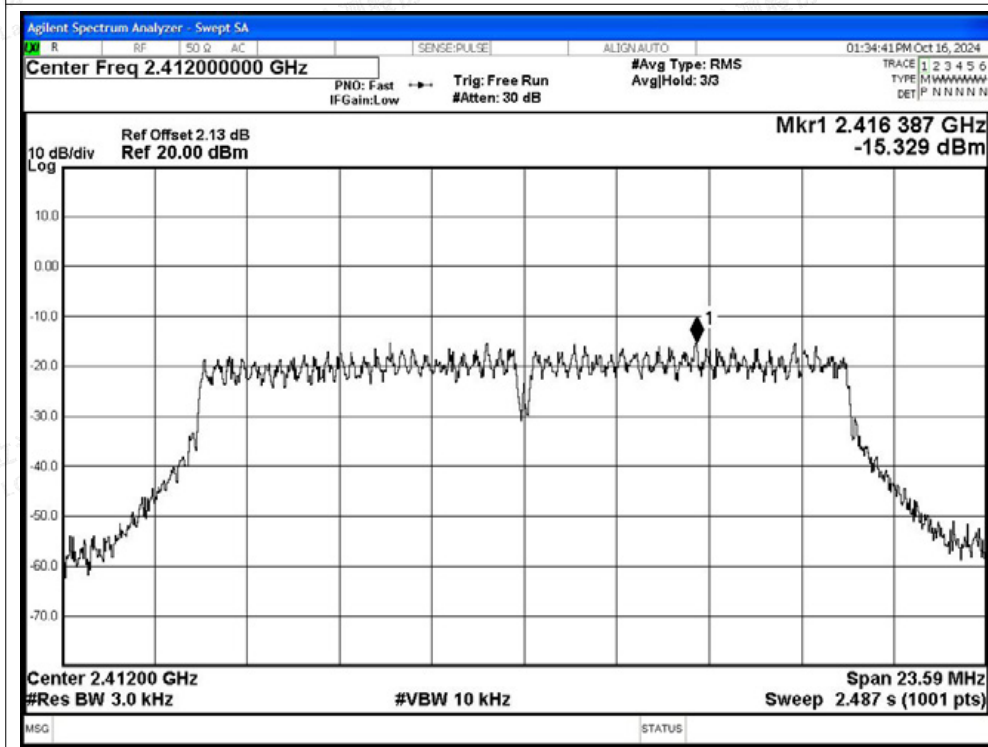




PSD NVNT b 2462MHz Ant1

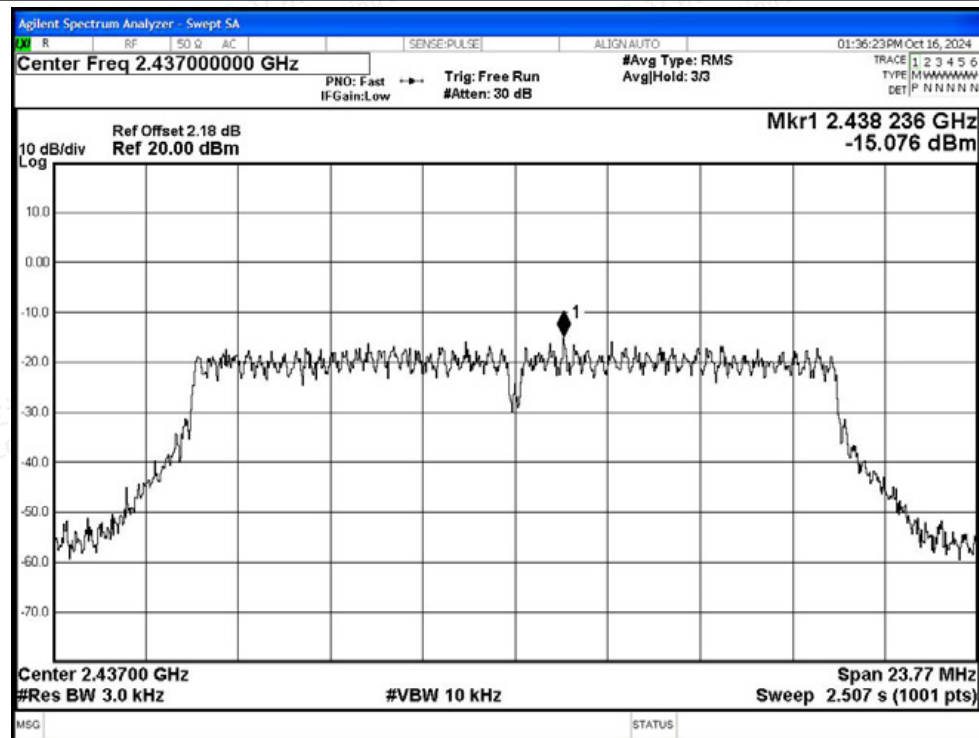


PSD NVNT g 2412MHz Ant1

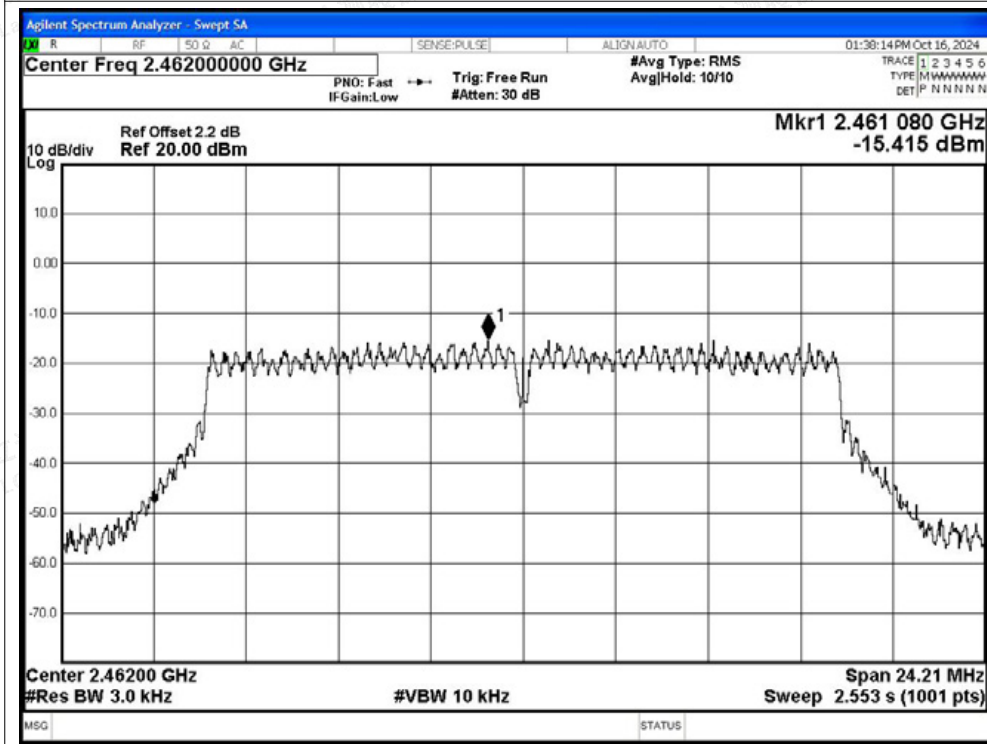




PSD NVNT g 2437MHz Ant1

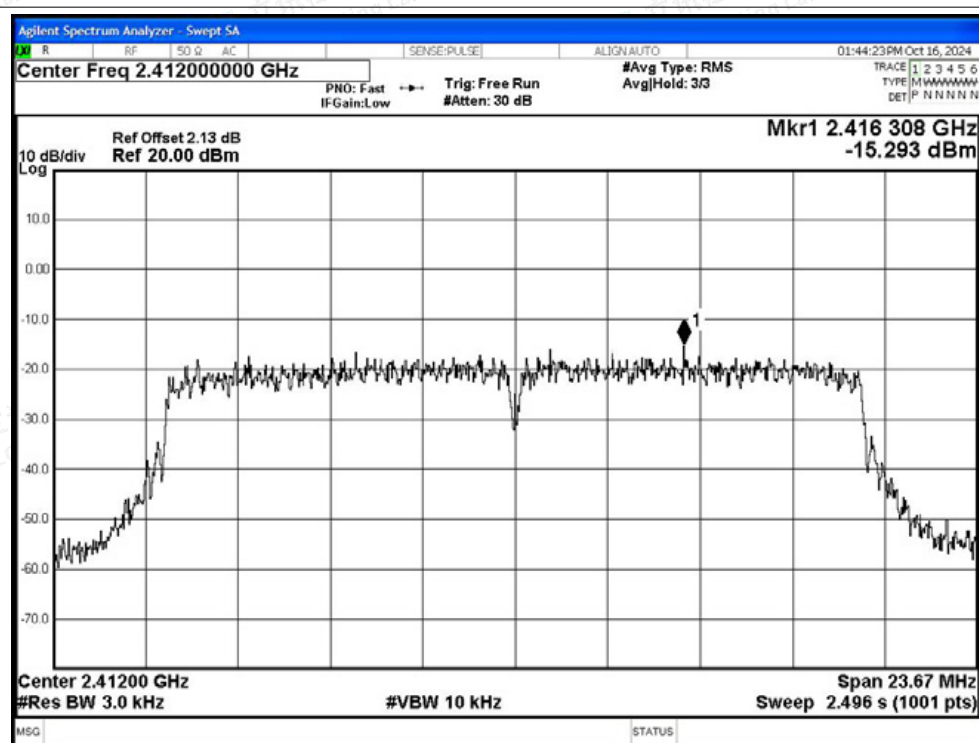


PSD NVNT g 2462MHz Ant1

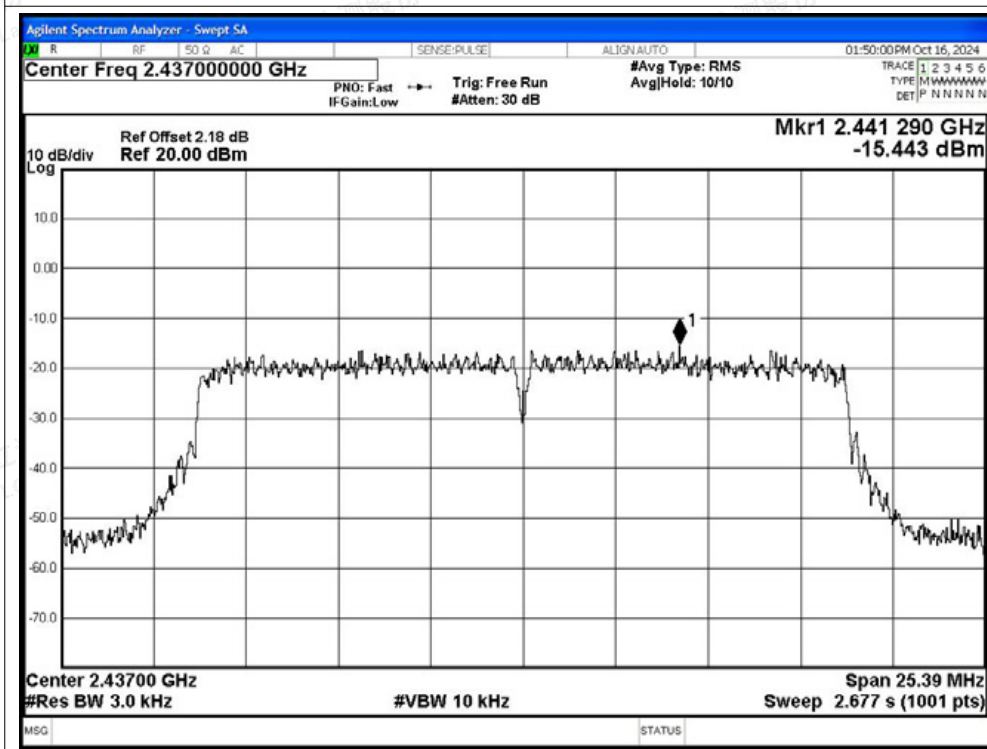




PSD NVNT n20 2412MHz Ant1

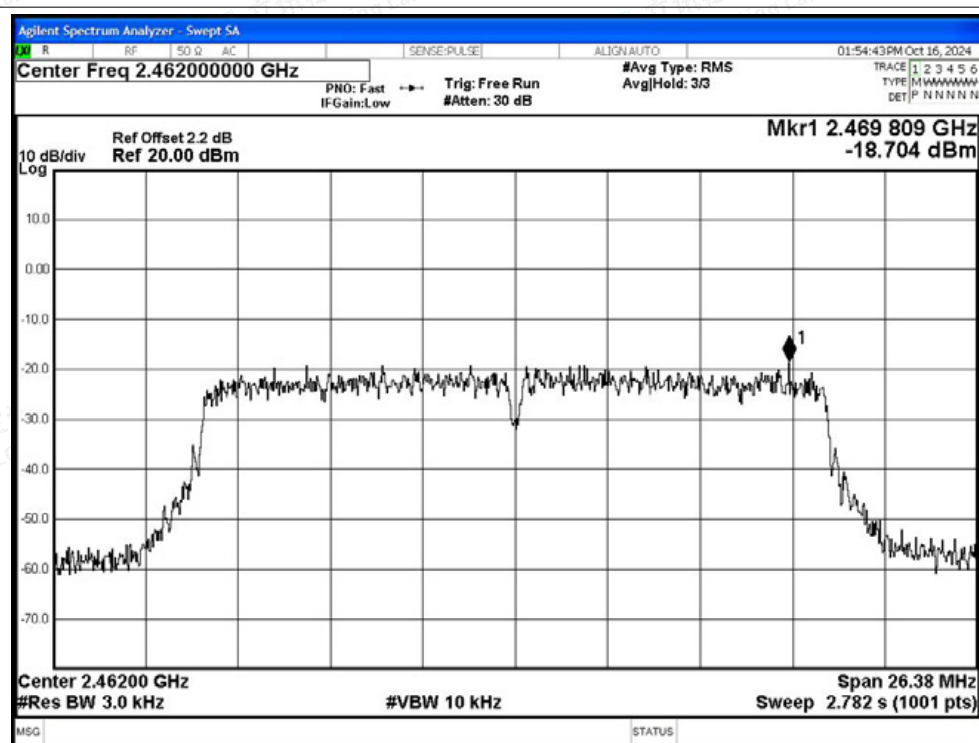


PSD NVNT n20 2437MHz Ant1





PSD NVNT n20 2462MHz Ant1



PSD NVNT n40 2422MHz Ant1

