



Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: BDE Wi-Fi 6 & BLE Combo Module

Test Model: BDE-BW3301NP2

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Nick Peng



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B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant0	7.559	≥ 0.5	Pass
NVNT	b	2437	Ant0	7.533	≥ 0.5	Pass
NVNT	b	2462	Ant0	7.574	≥ 0.5	Pass
NVNT	g	2412	Ant0	14.64	≥ 0.5	Pass
NVNT	g	2437	Ant0	11.621	≥ 0.5	Pass
NVNT	g	2462	Ant0	15.265	≥ 0.5	Pass
NVNT	n20	2412	Ant0	16.477	≥ 0.5	Pass
NVNT	n20	2437	Ant0	15.98	≥ 0.5	Pass
NVNT	n20	2462	Ant0	15.197	≥ 0.5	Pass
NVNT	ax20	2412	Ant0	17.354	≥ 0.5	Pass
NVNT	ax20	2437	Ant0	14.877	≥ 0.5	Pass
NVNT	ax20	2462	Ant0	16.837	≥ 0.5	Pass



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Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant0



-6dB Bandwidth NVNT b 2437MHz Ant0



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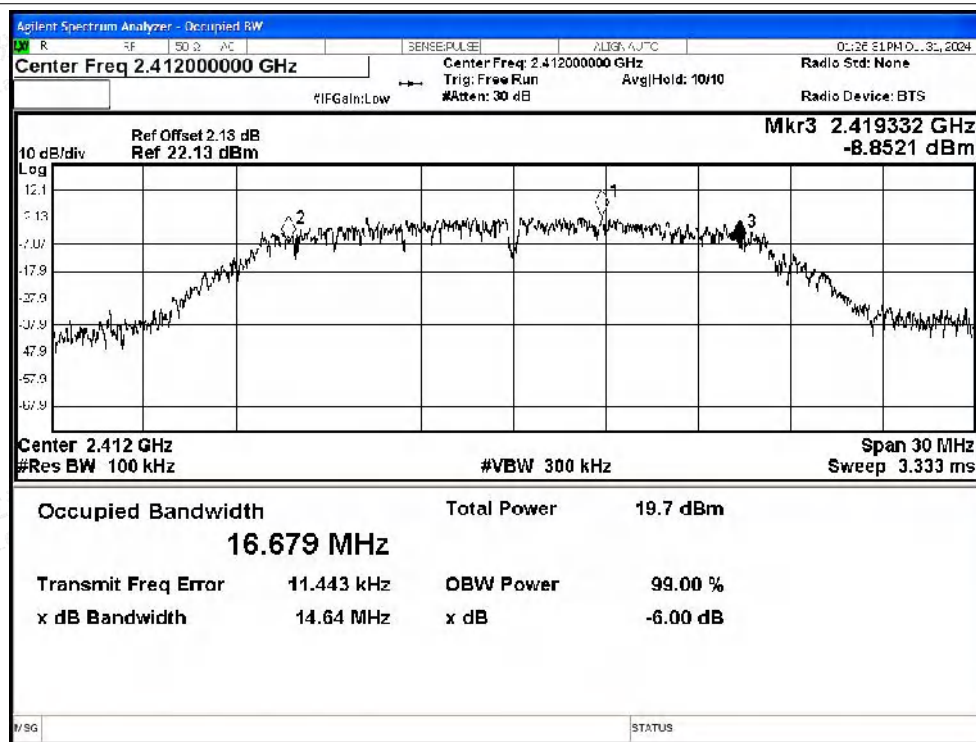
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-6dB Bandwidth NVNT b 2462MHz Ant0



-6dB Bandwidth NVNT g 2412MHz Ant0



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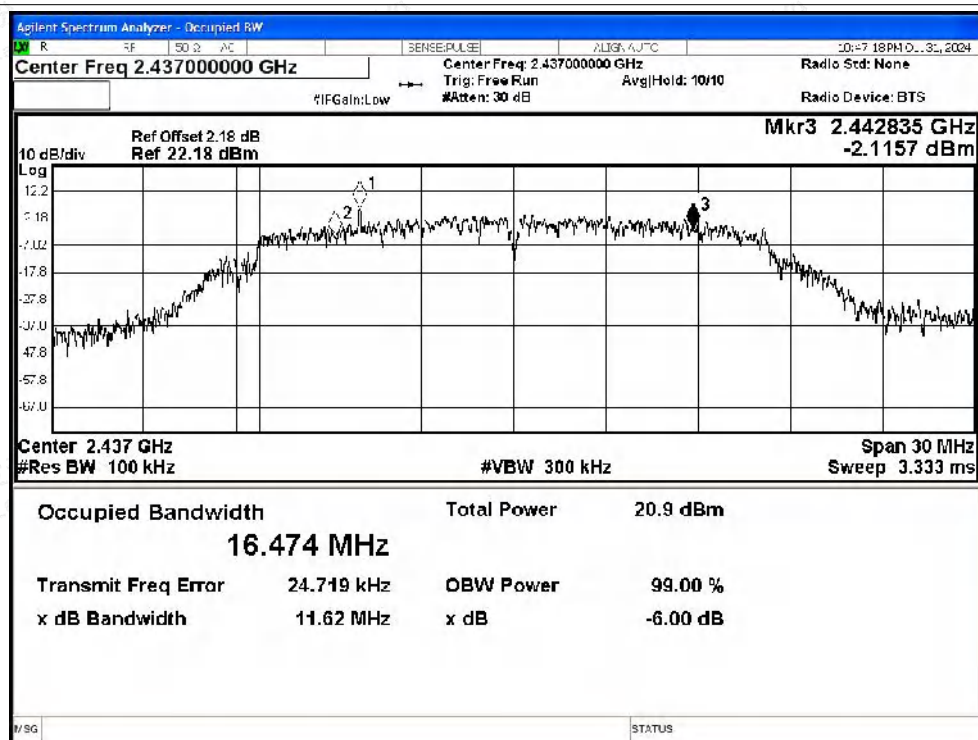
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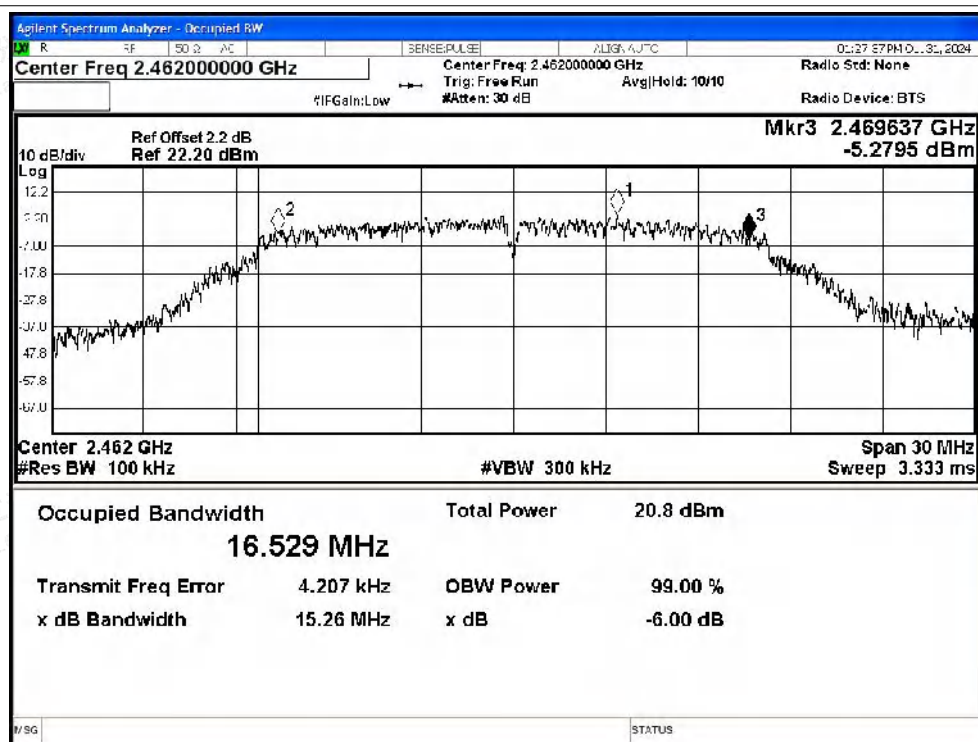
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-6dB Bandwidth NVNT g 2437MHz Ant0



-6dB Bandwidth NVNT g 2462MHz Ant0



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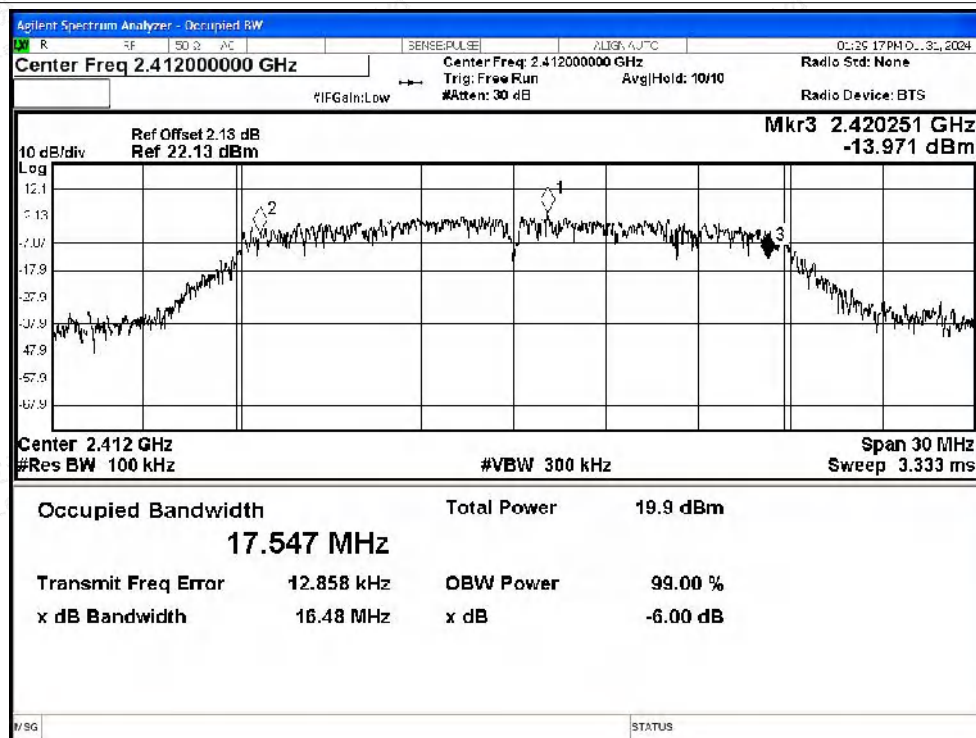
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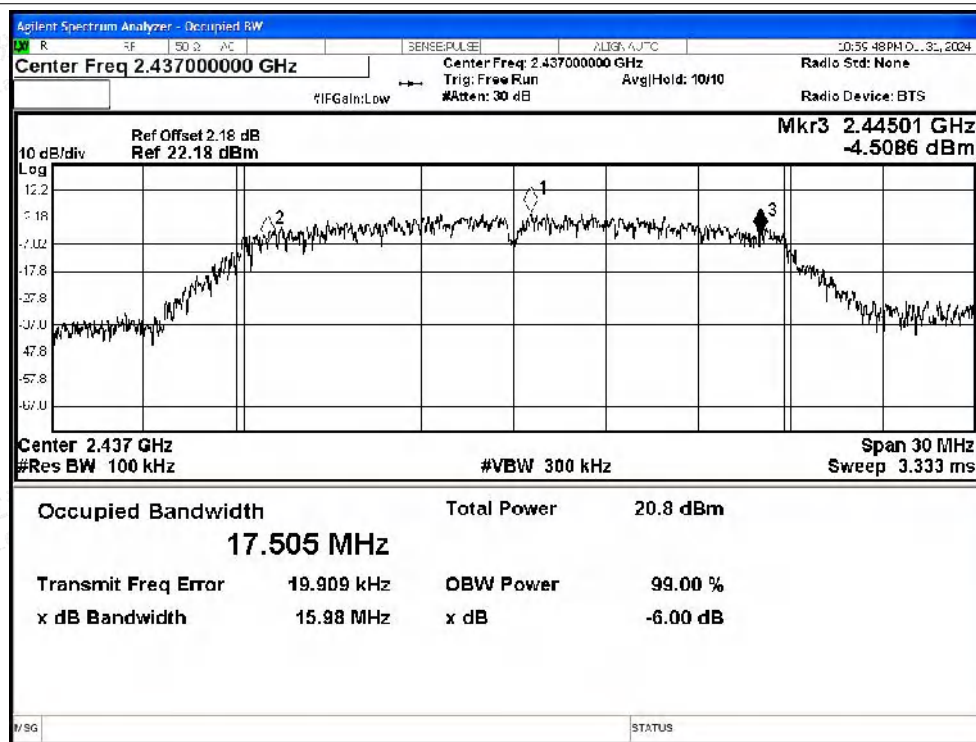
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-6dB Bandwidth NVNT n20 2412MHz Ant0



-6dB Bandwidth NVNT n20 2437MHz Ant0



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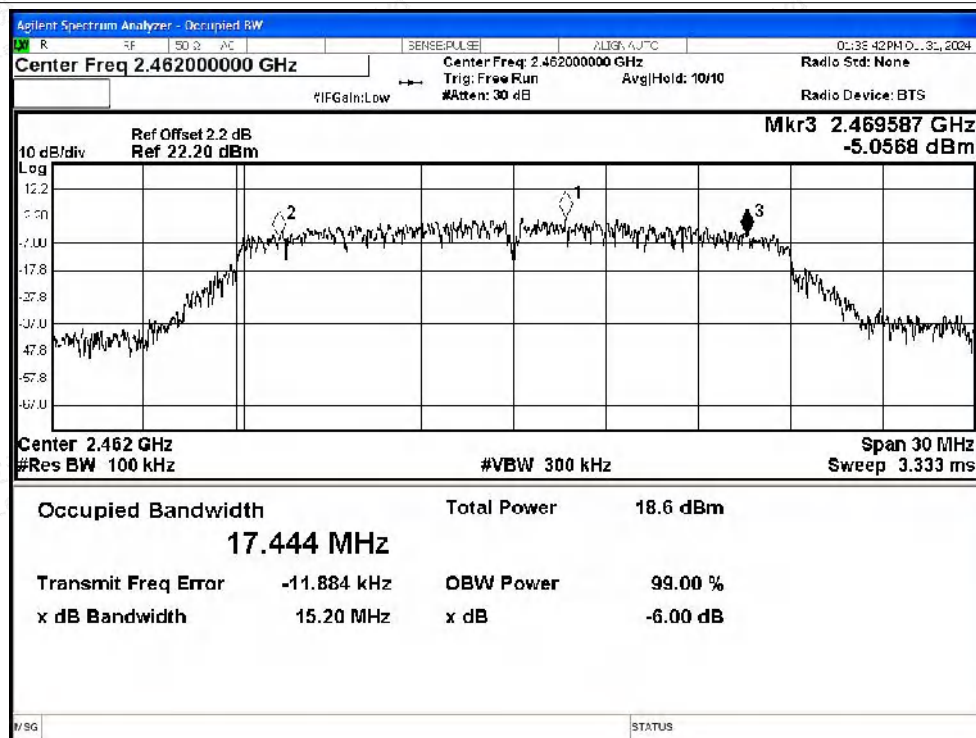
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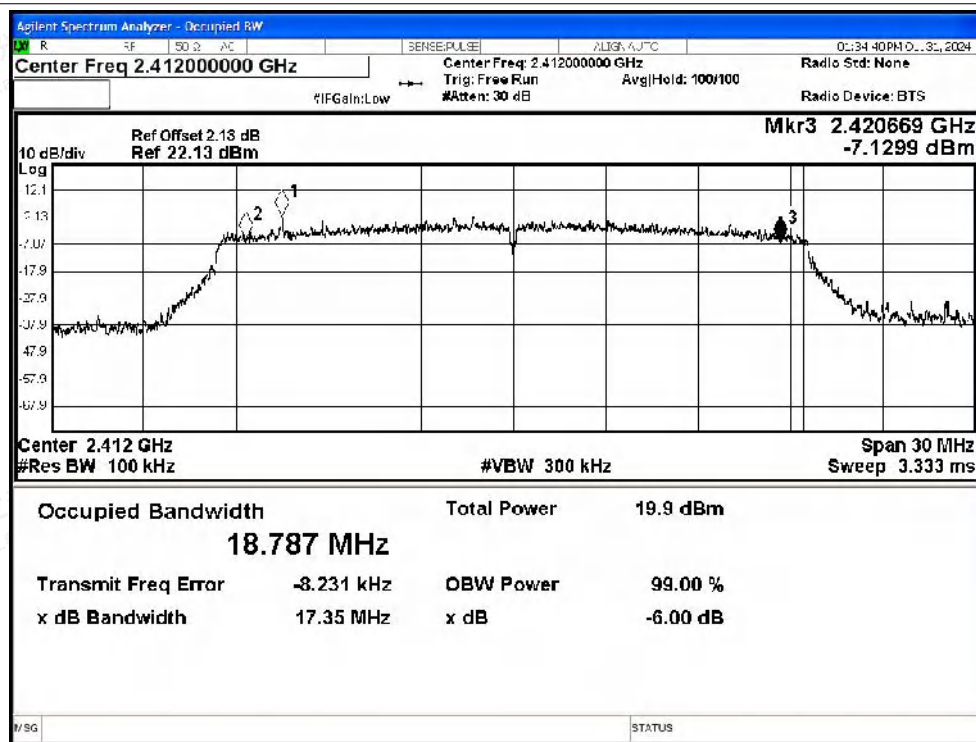
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-6dB Bandwidth NVNT n20 2462MHz Ant0



-6dB Bandwidth NVNT ax20 2412MHz Ant0



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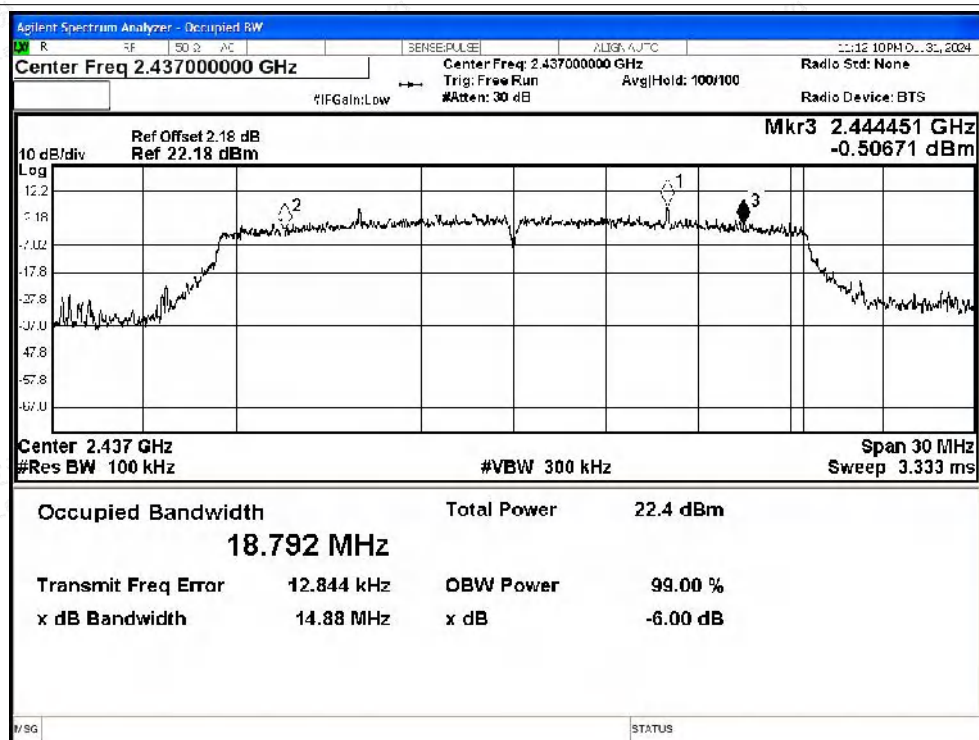
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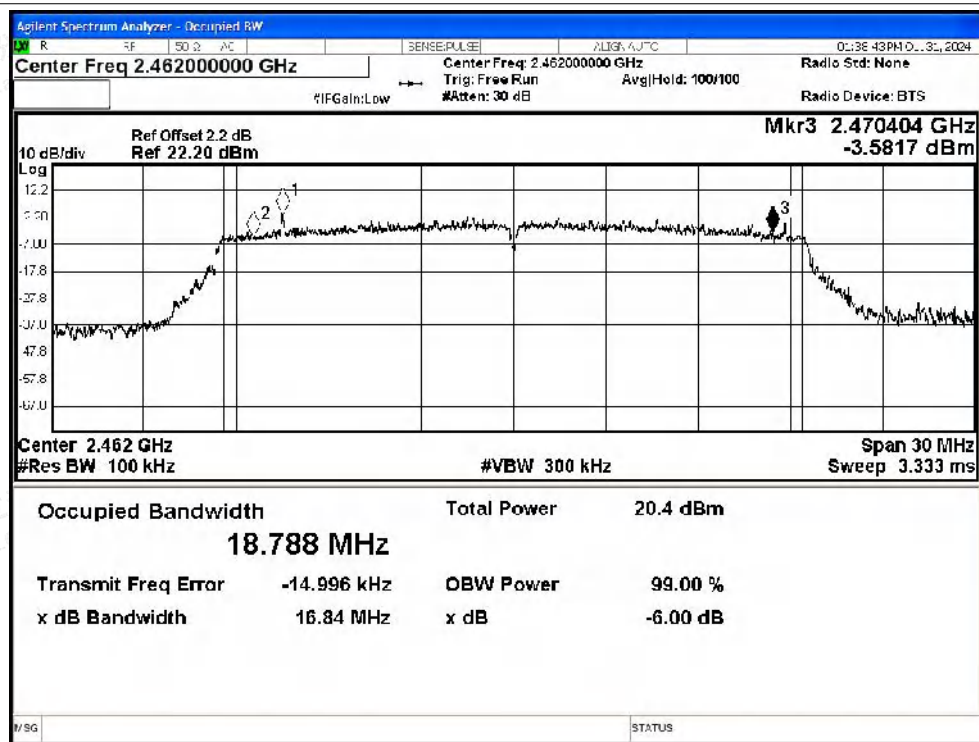
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-6dB Bandwidth NVNT ax20 2437MHz Ant0



-6dB Bandwidth NVNT ax20 2462MHz Ant0



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Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	7.025	≥ 0.5	Pass
NVNT	b	2437	Ant1	6.522	≥ 0.5	Pass
NVNT	b	2462	Ant1	6.883	≥ 0.5	Pass
NVNT	g	2412	Ant1	11.328	≥ 0.5	Pass
NVNT	g	2437	Ant1	13.763	≥ 0.5	Pass
NVNT	g	2462	Ant1	14.597	≥ 0.5	Pass
NVNT	n20	2412	Ant1	14.321	≥ 0.5	Pass
NVNT	n20	2437	Ant1	15.321	≥ 0.5	Pass
NVNT	n20	2462	Ant1	16.146	≥ 0.5	Pass
NVNT	ax20	2412	Ant1	15.574	≥ 0.5	Pass
NVNT	ax20	2437	Ant1	14.988	≥ 0.5	Pass
NVNT	ax20	2462	Ant1	18.574	≥ 0.5	Pass



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Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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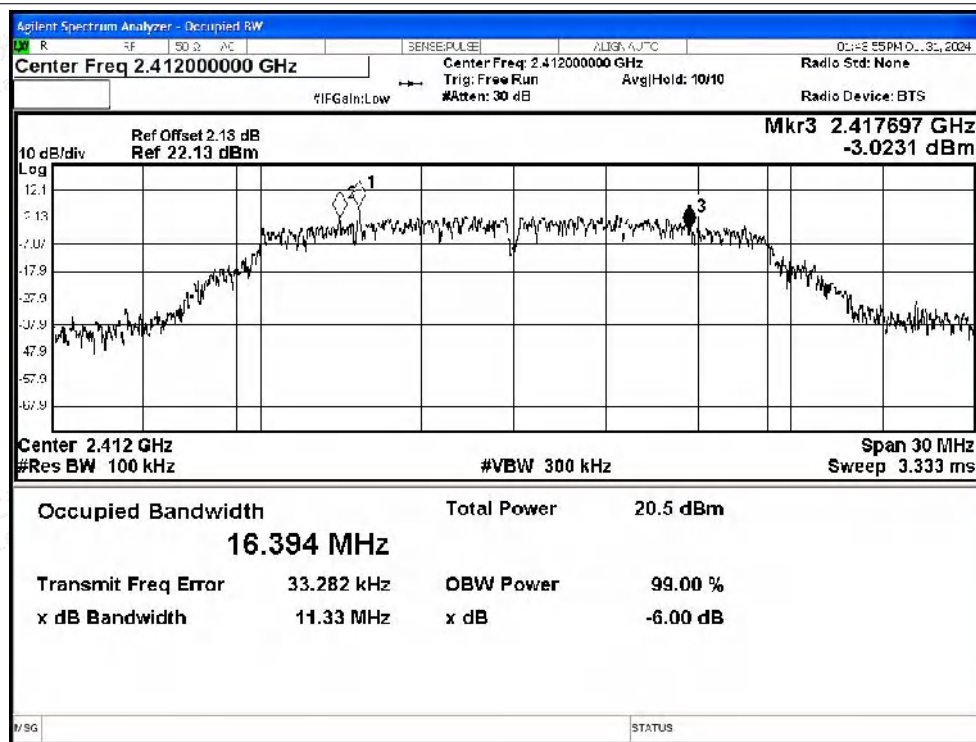
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



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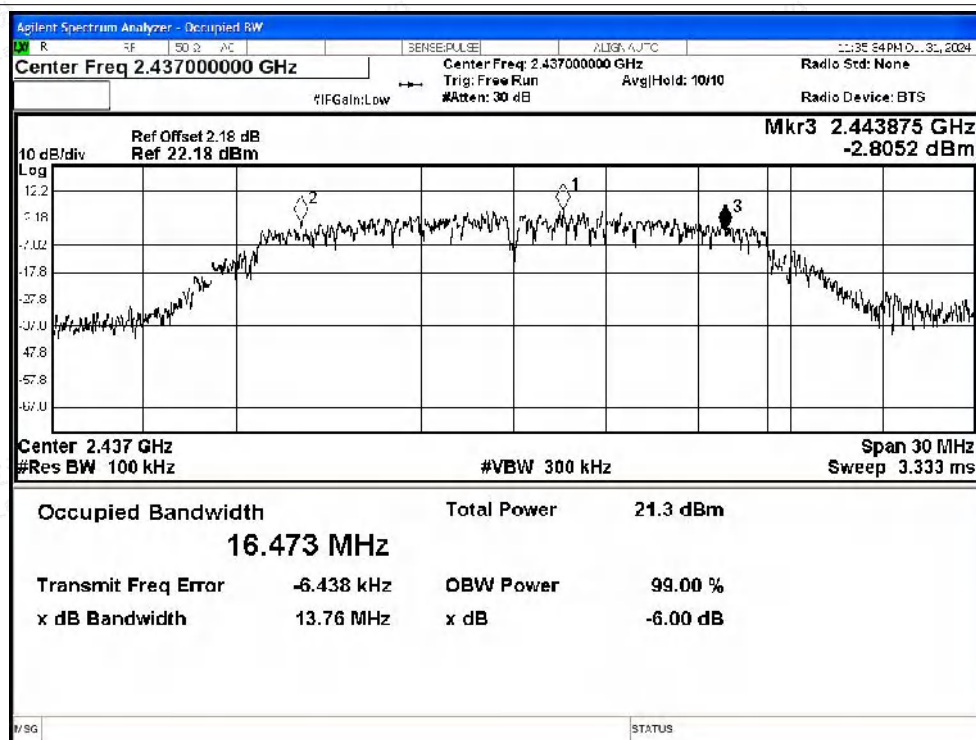
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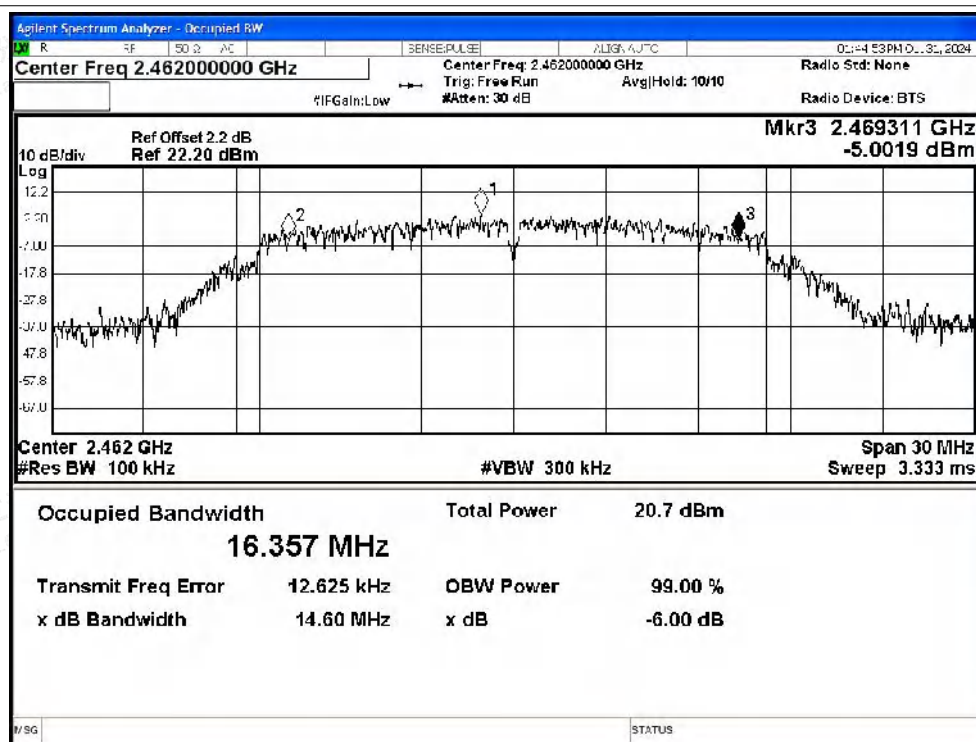
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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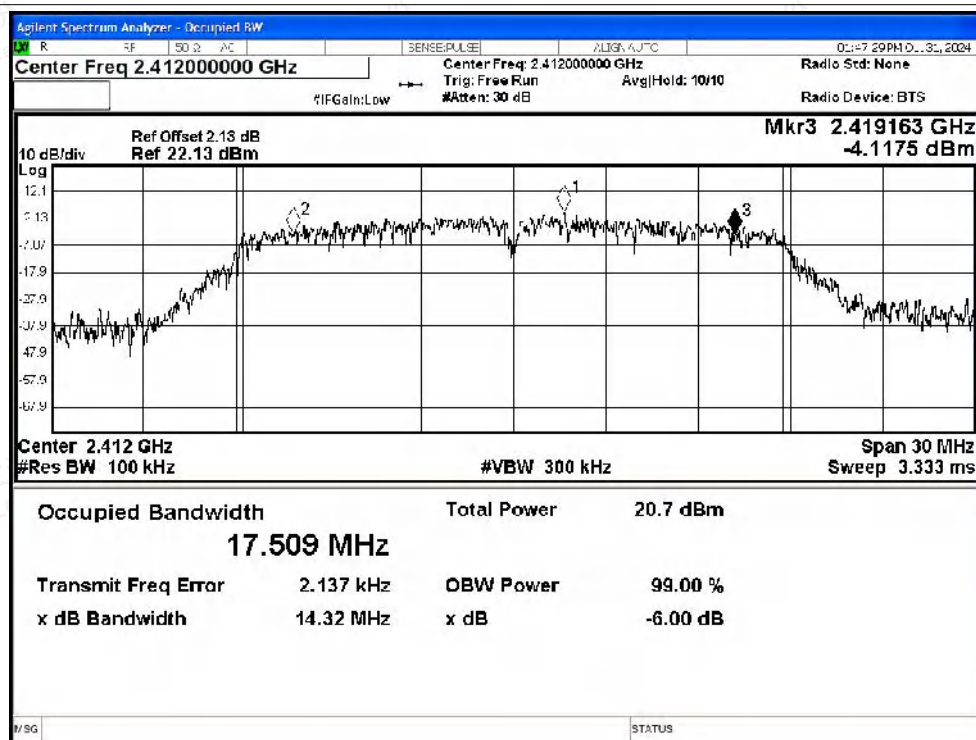
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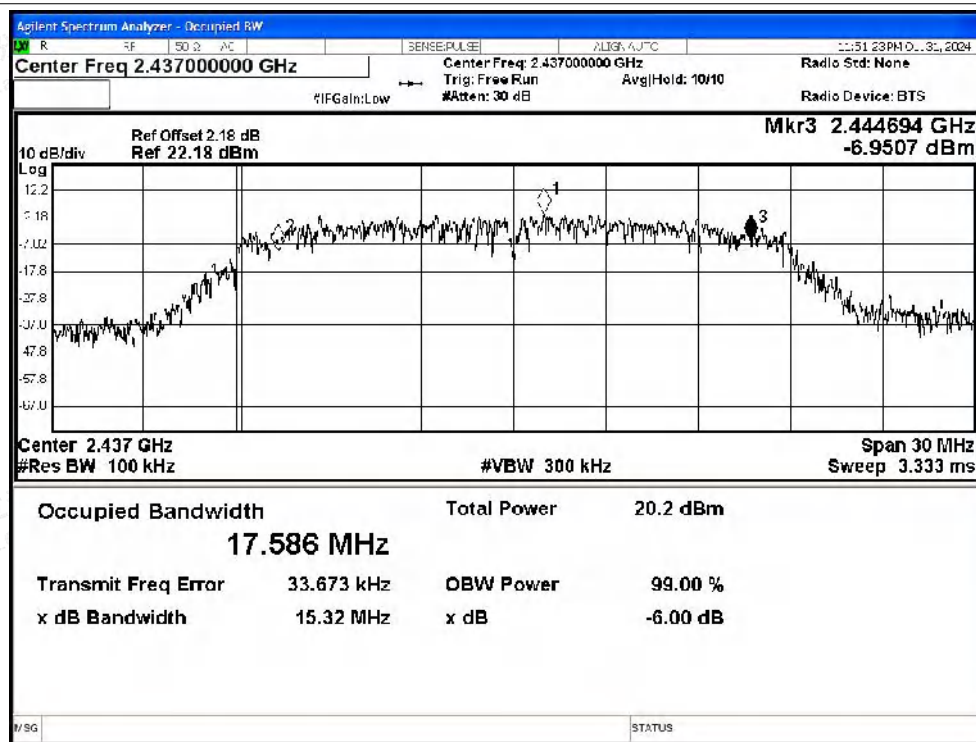
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-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



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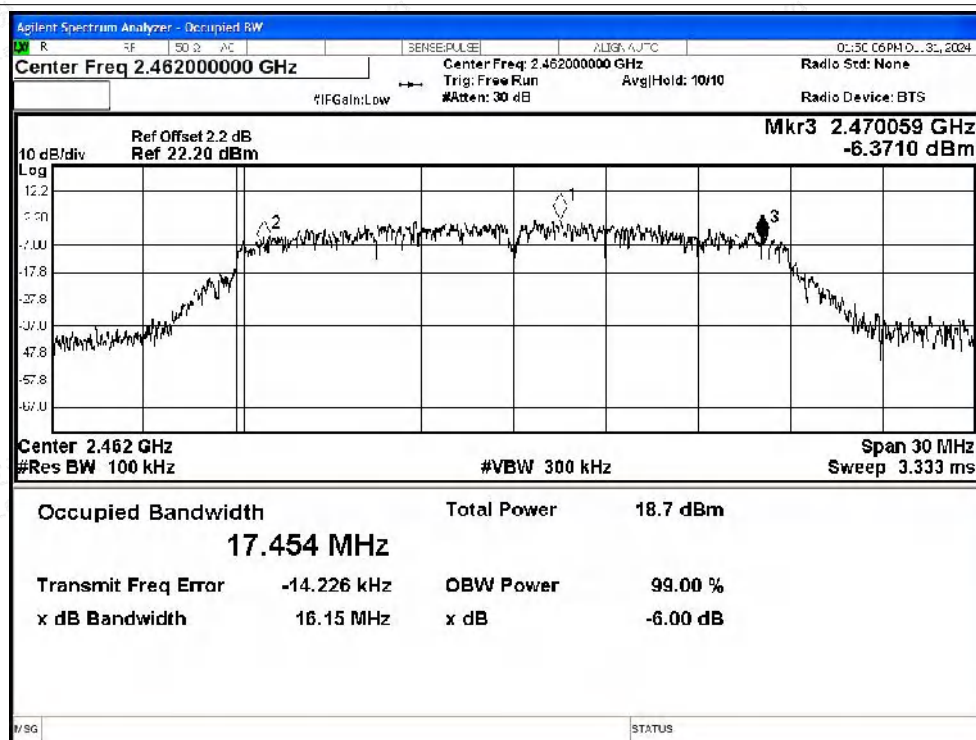
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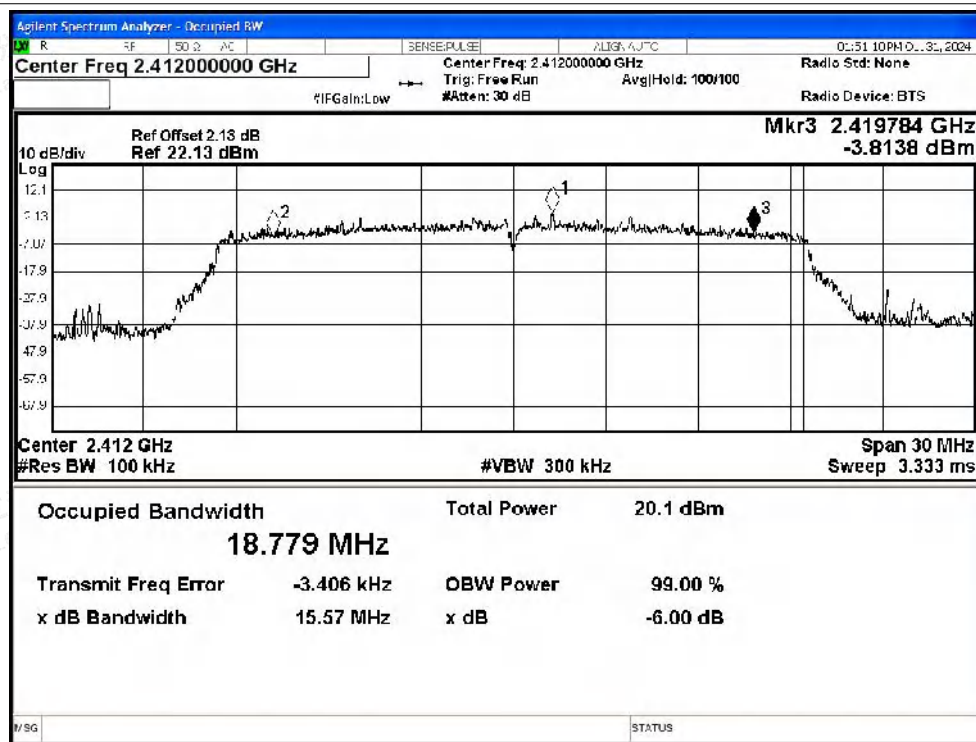
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-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT ax20 2412MHz Ant1



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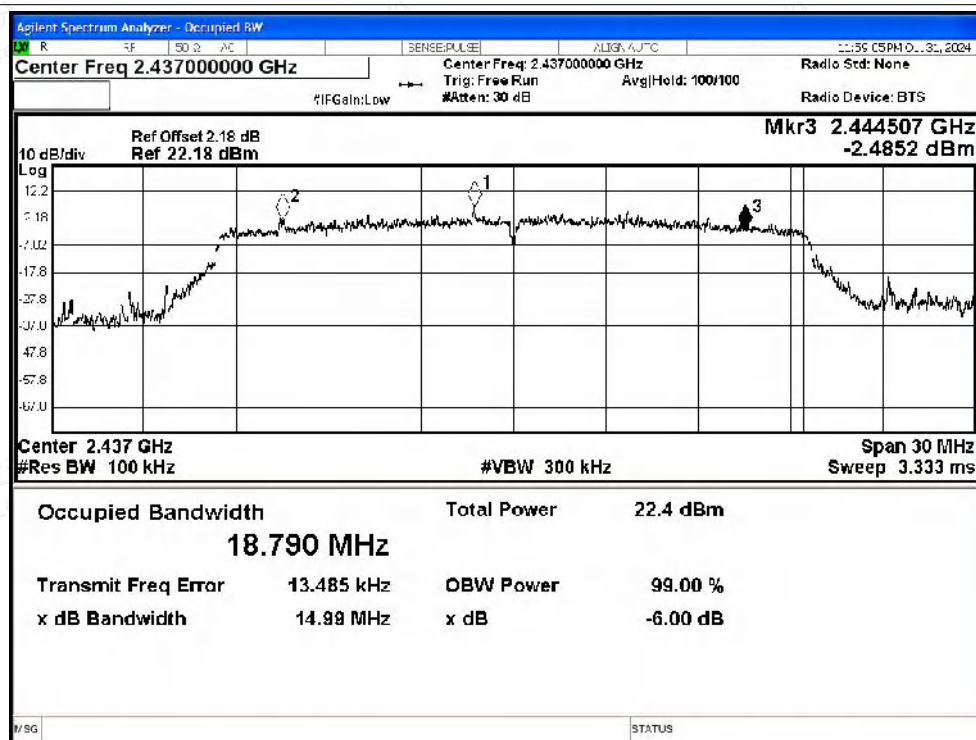
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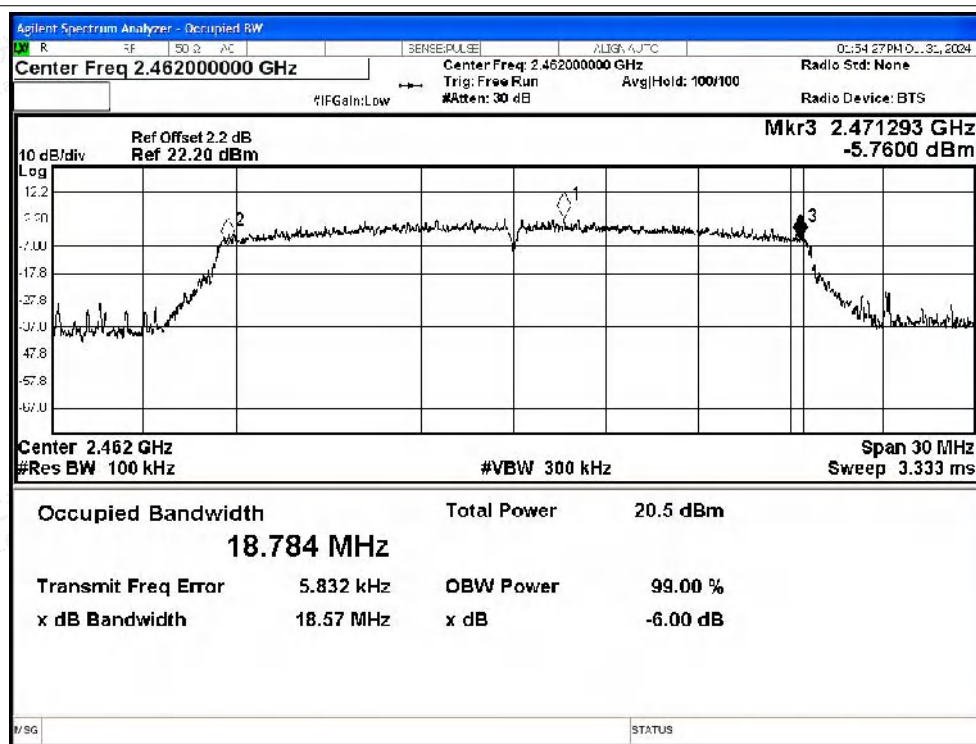
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-6dB Bandwidth NVNT ax20 2437MHz Ant1



-6dB Bandwidth NVNT ax20 2462MHz Ant1



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B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant0	17.57	30	Pass
NVNT	b	2437	Ant0	18.84	30	Pass
NVNT	b	2462	Ant0	18.97	30	Pass
NVNT	g	2412	Ant0	15.31	30	Pass
NVNT	g	2437	Ant0	19.16	30	Pass
NVNT	g	2462	Ant0	15.92	30	Pass
NVNT	n20	2412	Ant0	14.05	30	Pass
NVNT	n20	2437	Ant0	19.29	30	Pass
NVNT	n20	2462	Ant0	16.71	30	Pass
NVNT	ax20	2412	Ant0	15.6	30	Pass
NVNT	ax20	2437	Ant0	21.68	30	Pass
NVNT	ax20	2462	Ant0	16.26	30	Pass

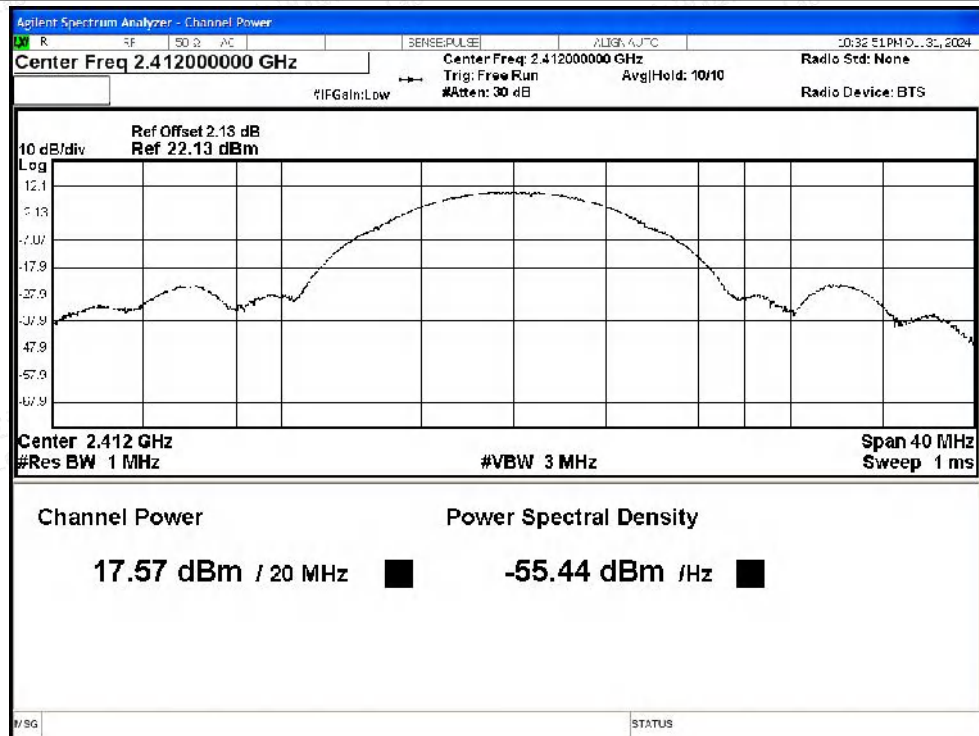
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	17.88	30	Pass
NVNT	b	2437	Ant1	18.99	30	Pass
NVNT	b	2462	Ant1	19	30	Pass
NVNT	g	2412	Ant1	15.8	30	Pass
NVNT	g	2437	Ant1	20.1	30	Pass
NVNT	g	2462	Ant1	15.59	30	Pass
NVNT	n20	2412	Ant1	15.25	30	Pass
NVNT	n20	2437	Ant1	19.15	30	Pass
NVNT	n20	2462	Ant1	17.64	30	Pass
NVNT	ax20	2412	Ant1	15.77	30	Pass
NVNT	ax20	2437	Ant1	21.67	30	Pass
NVNT	ax20	2462	Ant1	16.2	30	Pass



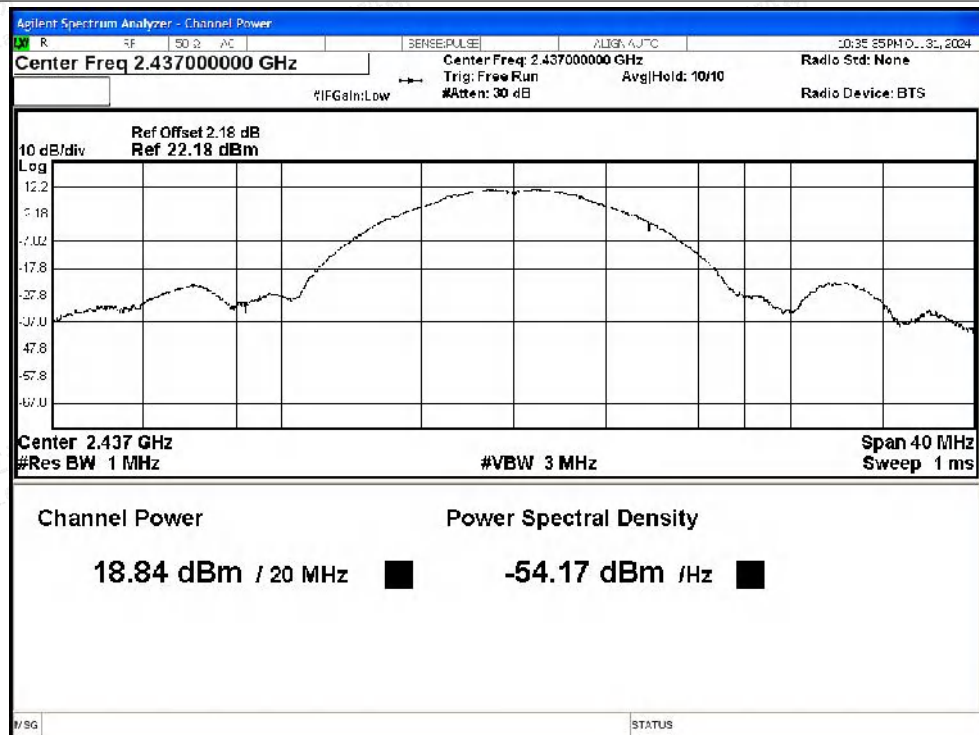


Test Graphs

Power NVNT b 2412MHz Ant0



Power NVNT b 2437MHz Ant0



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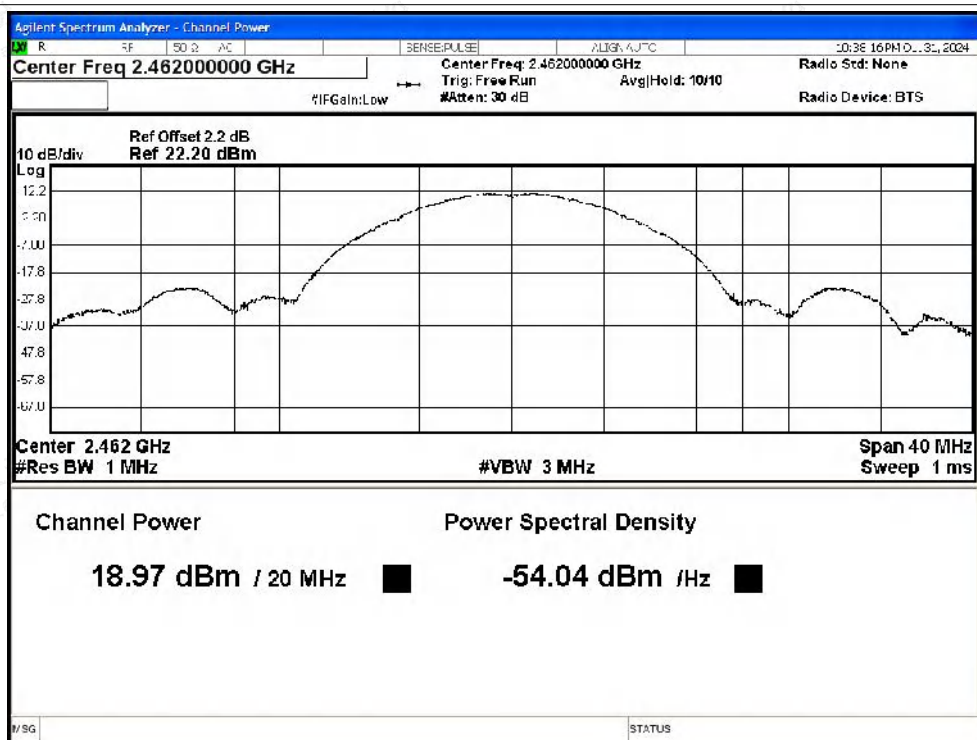
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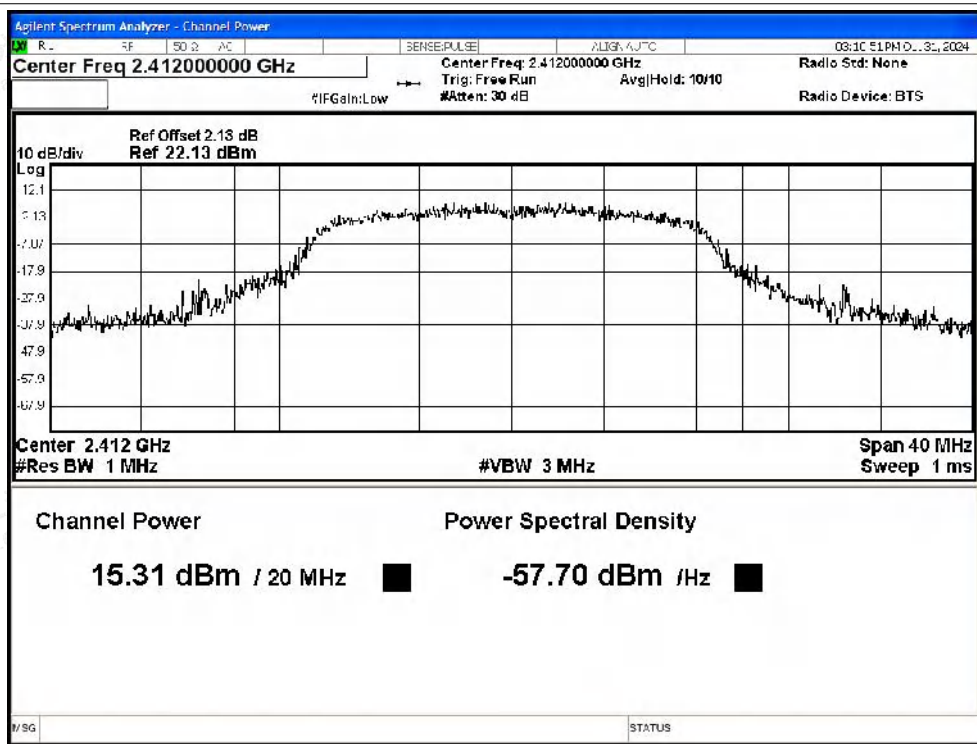
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Power NVNT b 2462MHz Ant0



Power NVNT g 2412MHz Ant0



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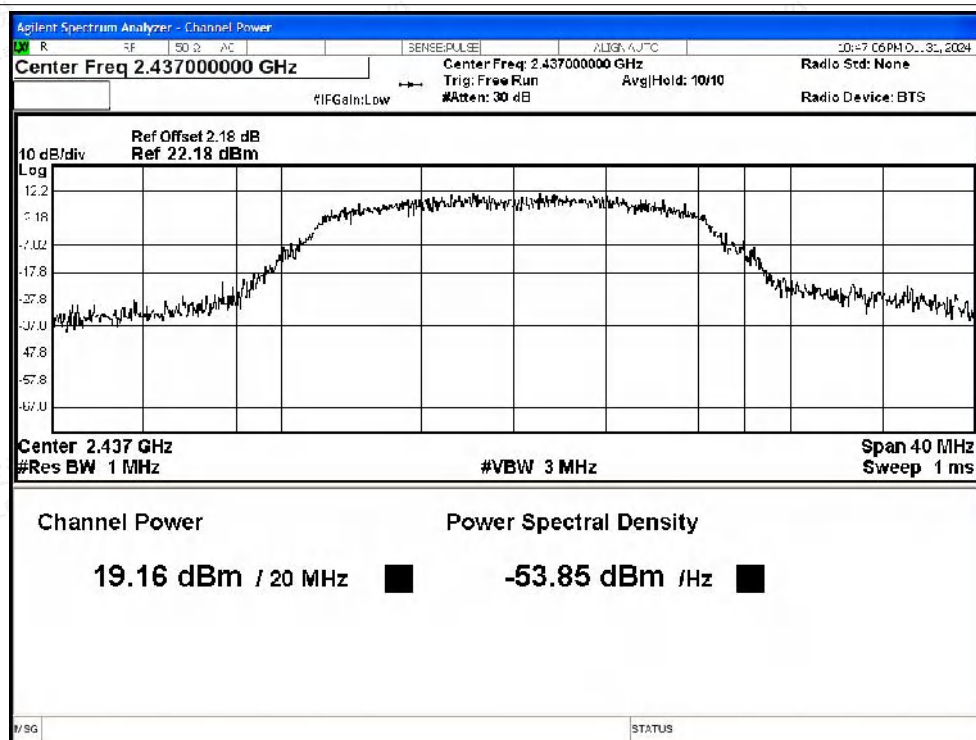
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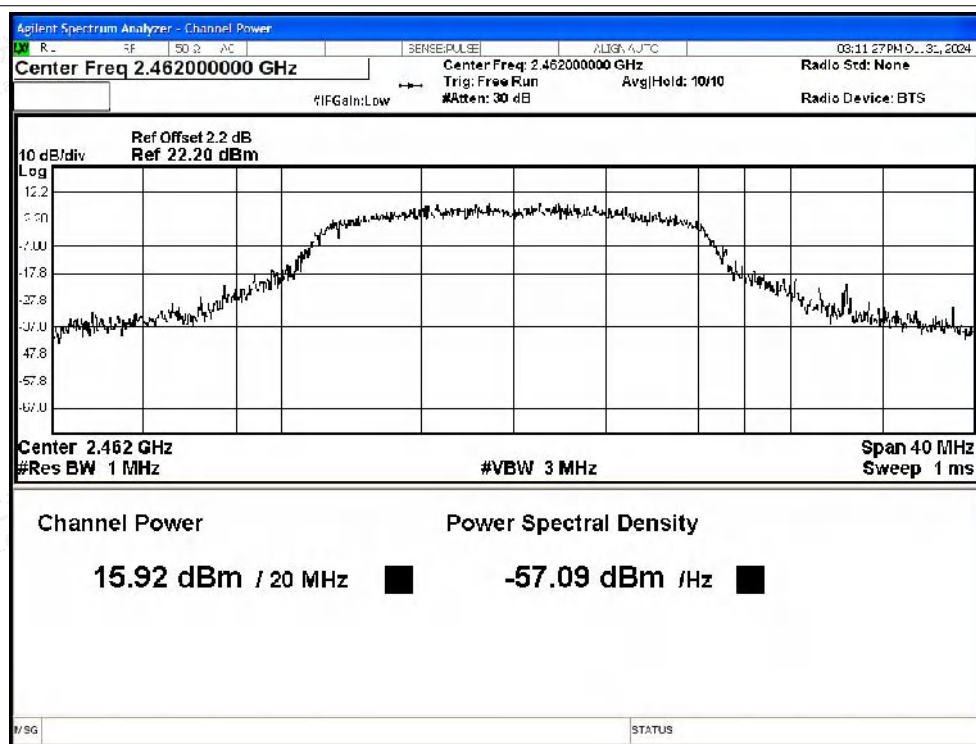
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Power NVNT g 2437MHz Ant0



Power NVNT g 2462MHz Ant0



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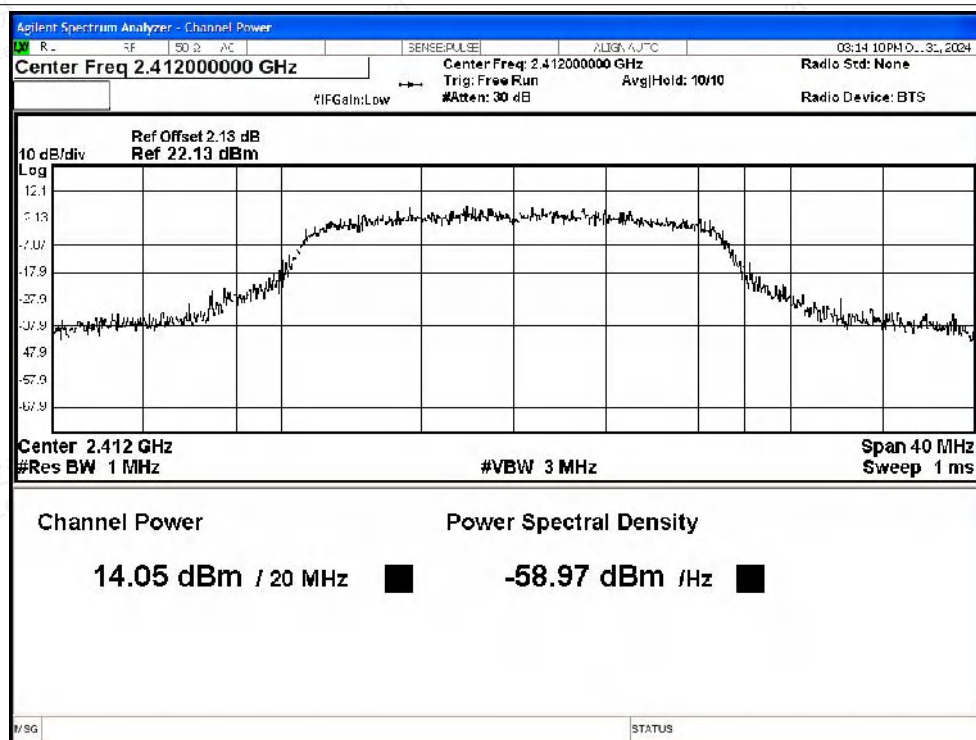
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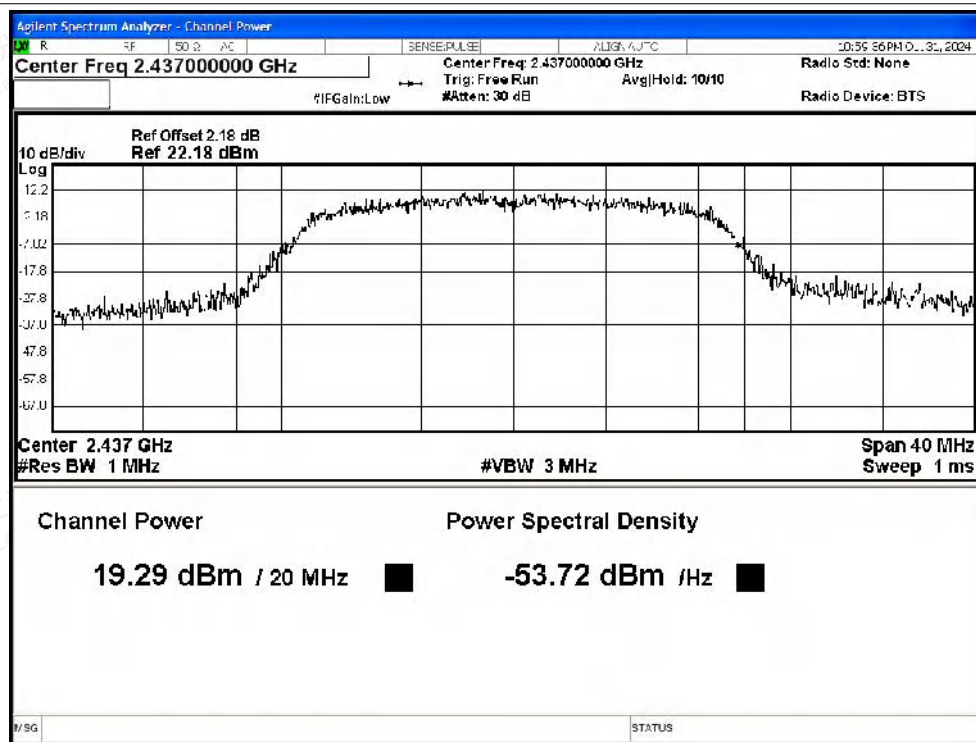
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Power NVNT n20 2437MHz Ant0



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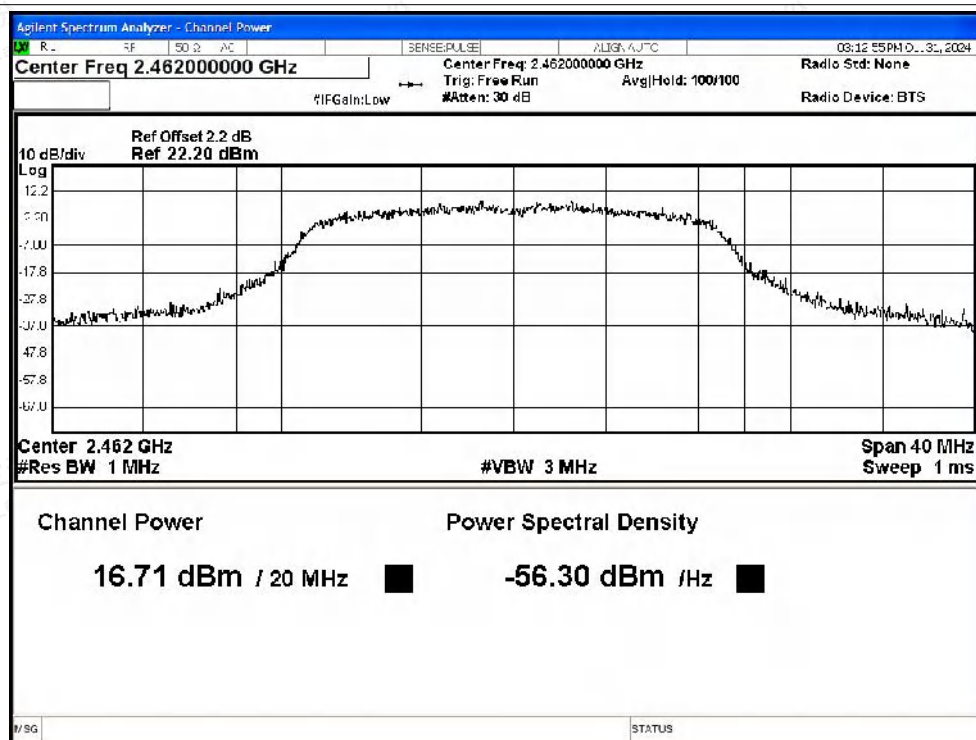
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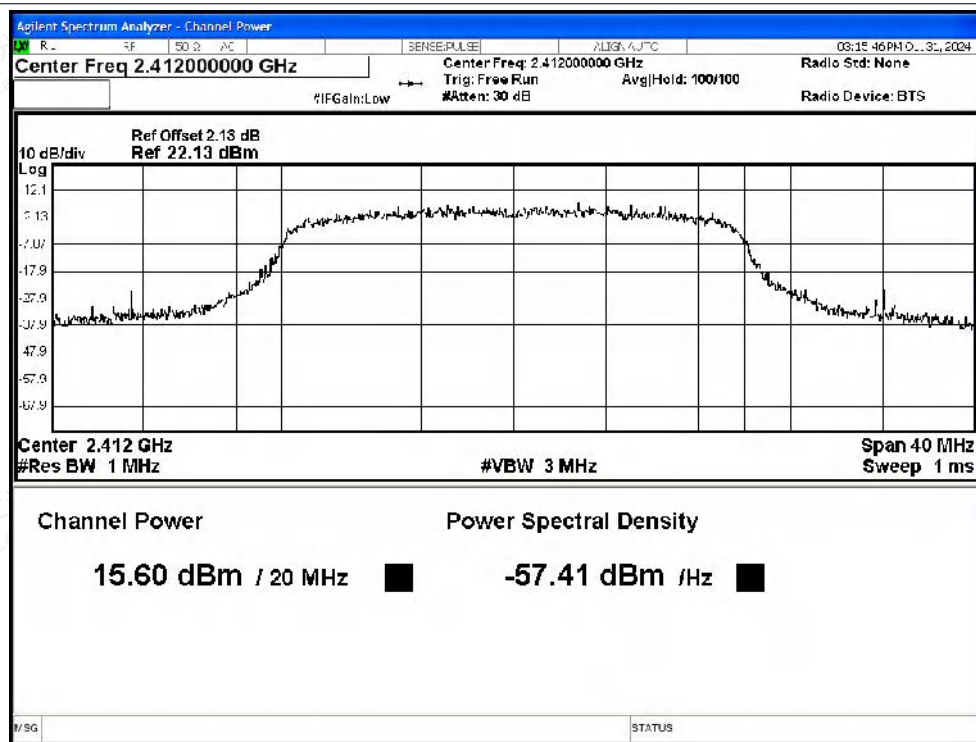
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Power NVNT n20 2462MHz Ant0



Power NVNT ax20 2412MHz Ant0



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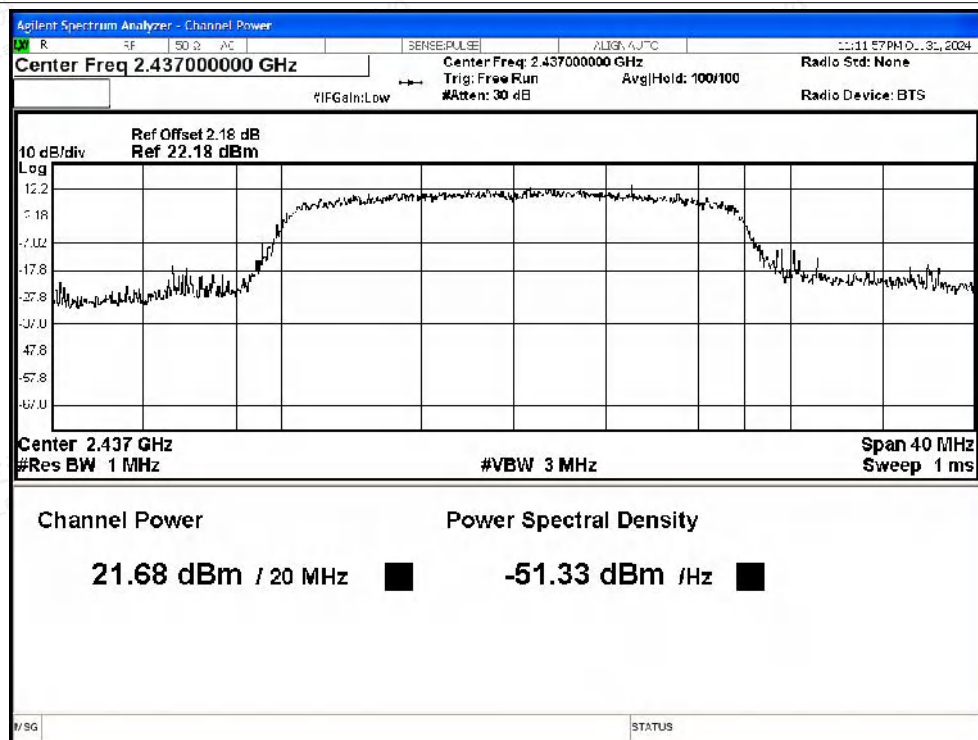
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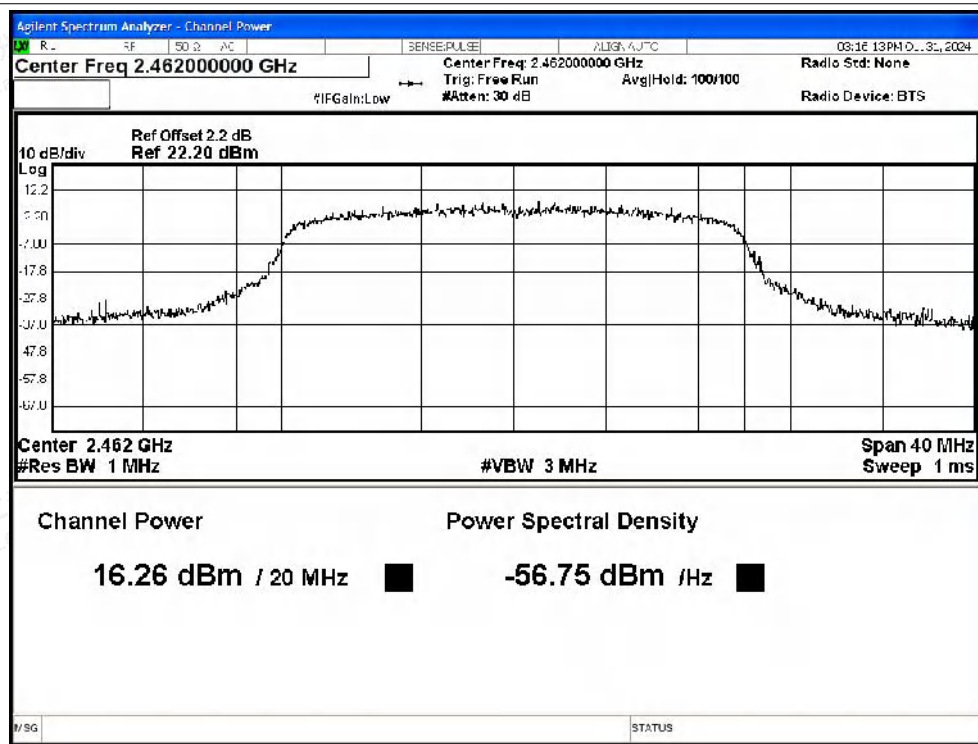
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Power NVNT ax20 2437MHz Ant0



Power NVNT ax20 2462MHz Ant0



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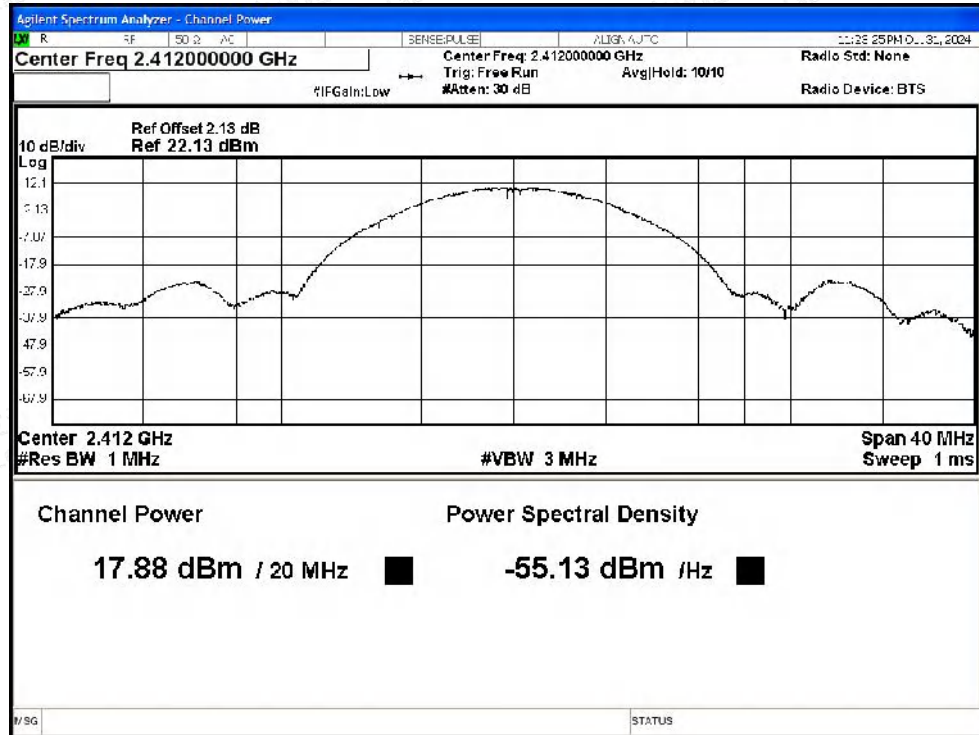
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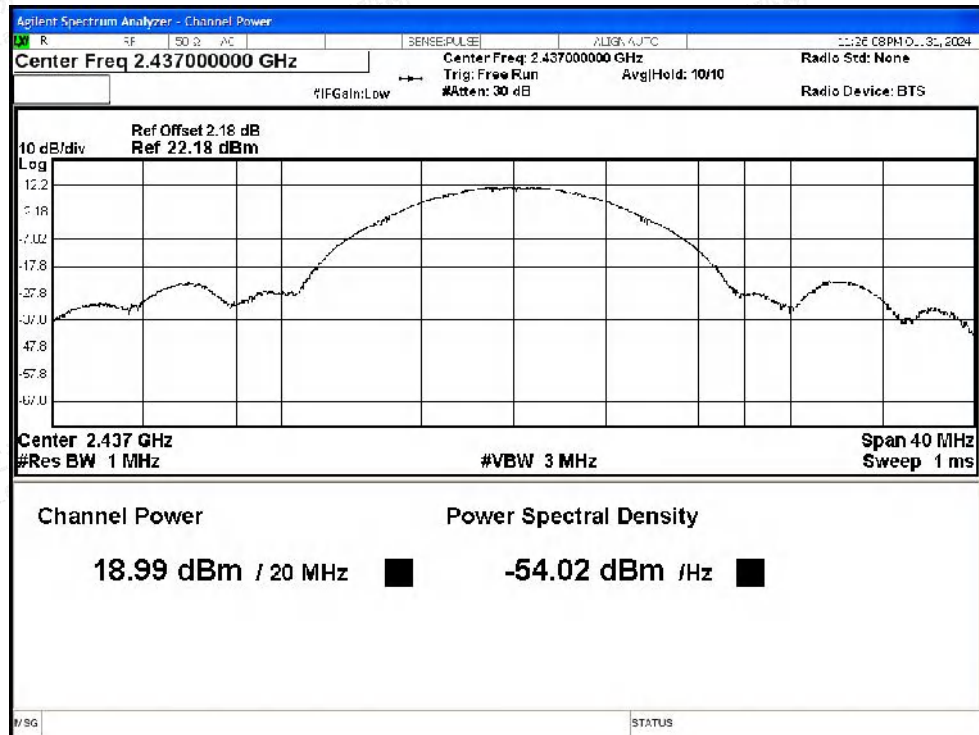


Test Graphs

Power NVNT b 2412MHz Ant1



Power NVNT b 2437MHz Ant1



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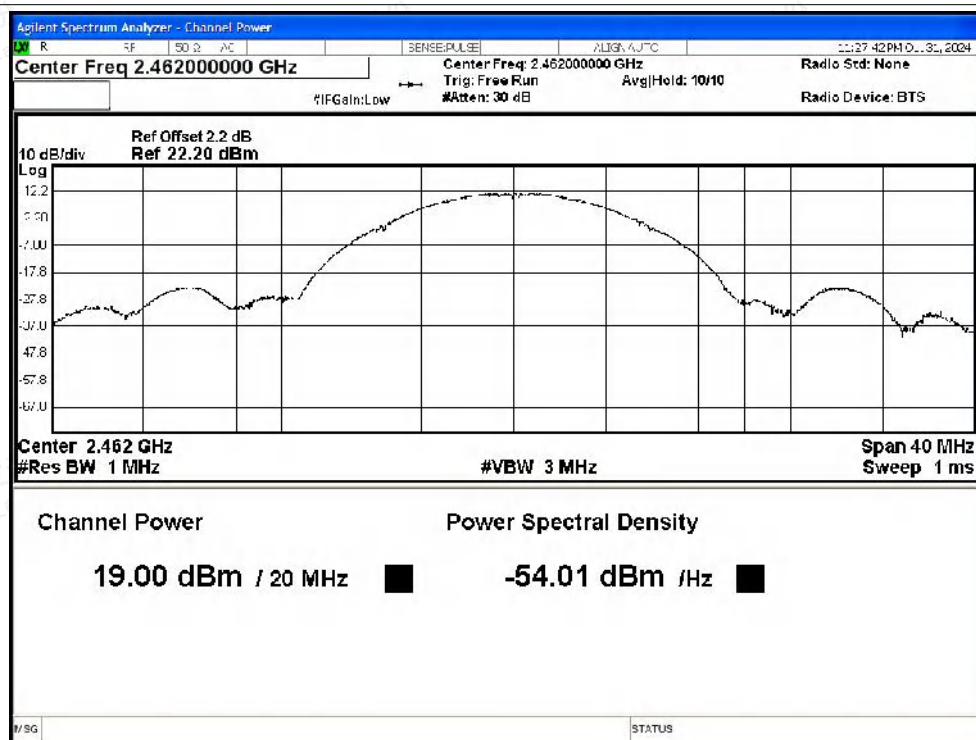
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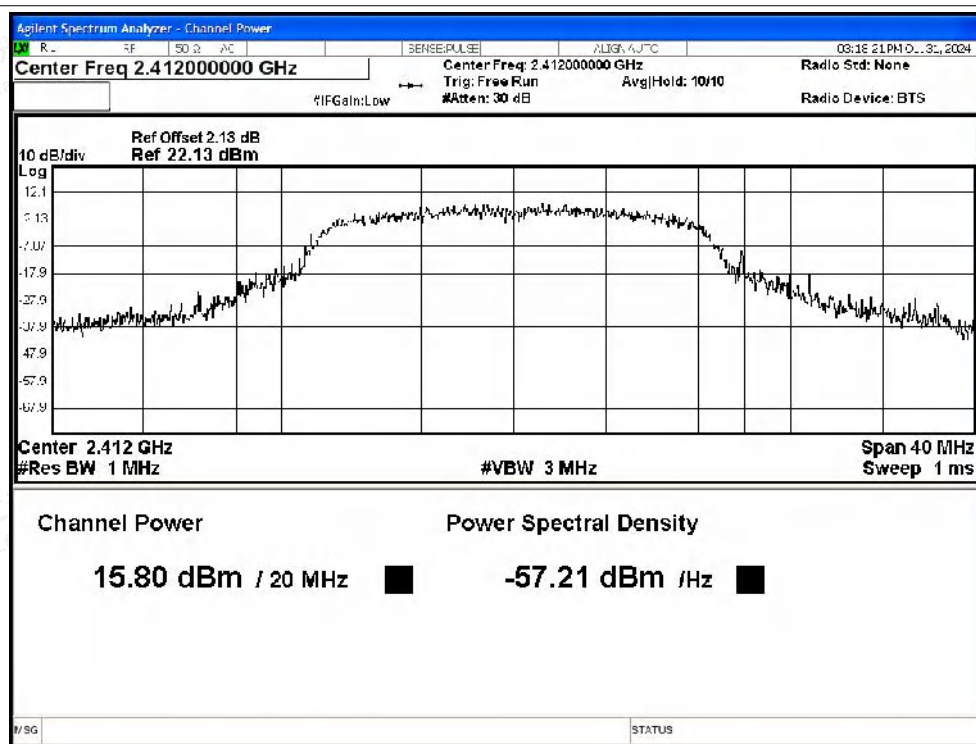
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Power NVNT b 2462MHz Ant1



Power NVNT g 2412MHz Ant1



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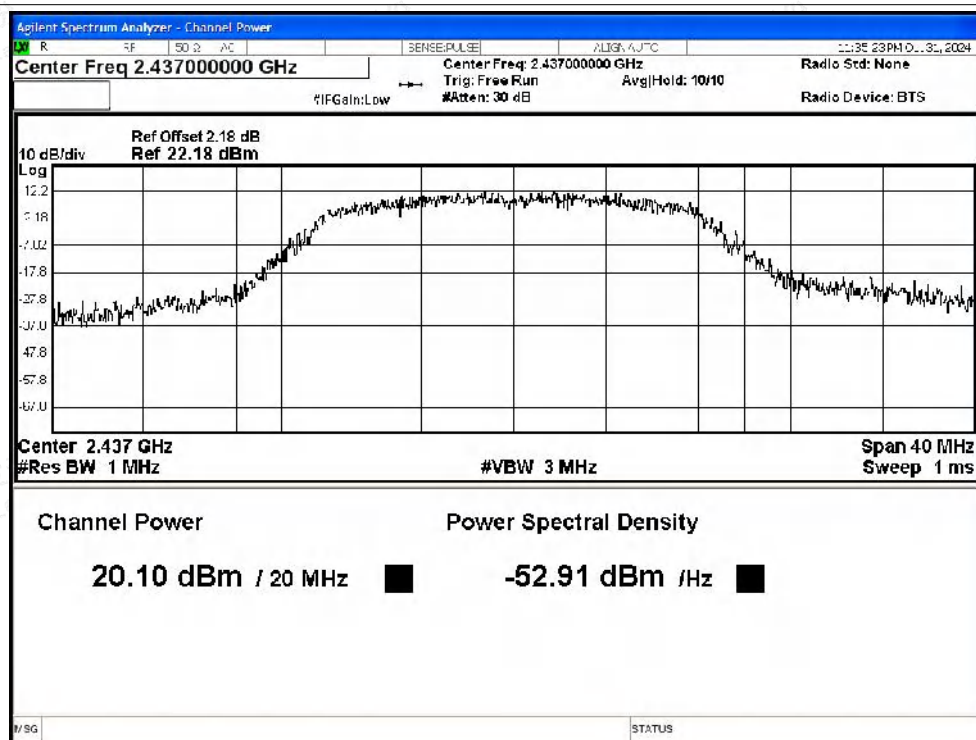
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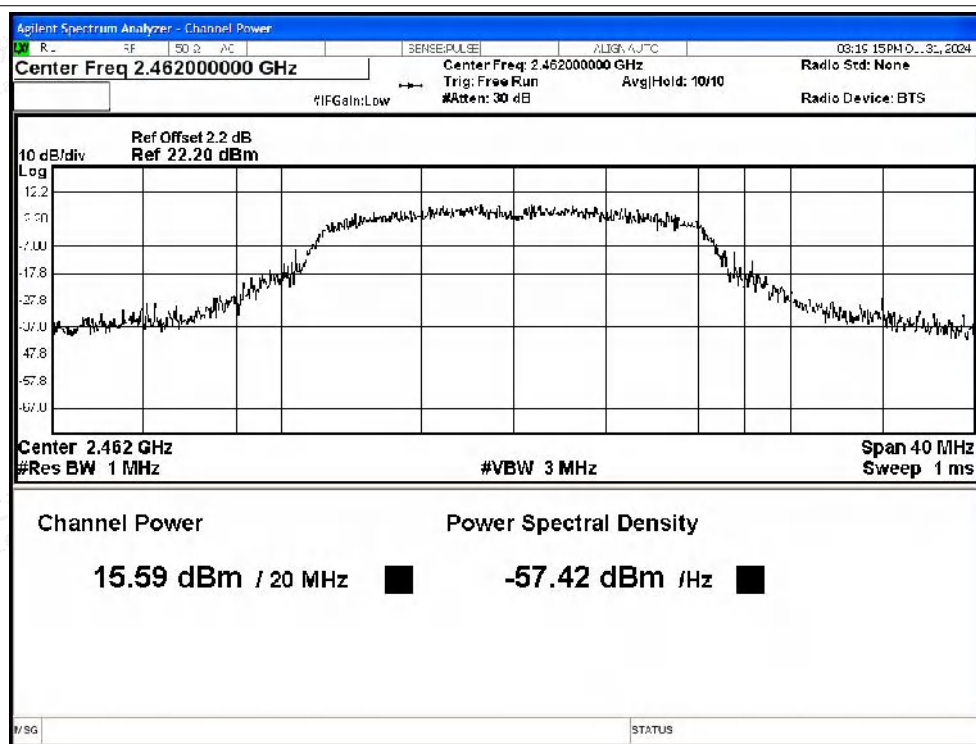
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Power NVNT g 2437MHz Ant1



Power NVNT g 2462MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

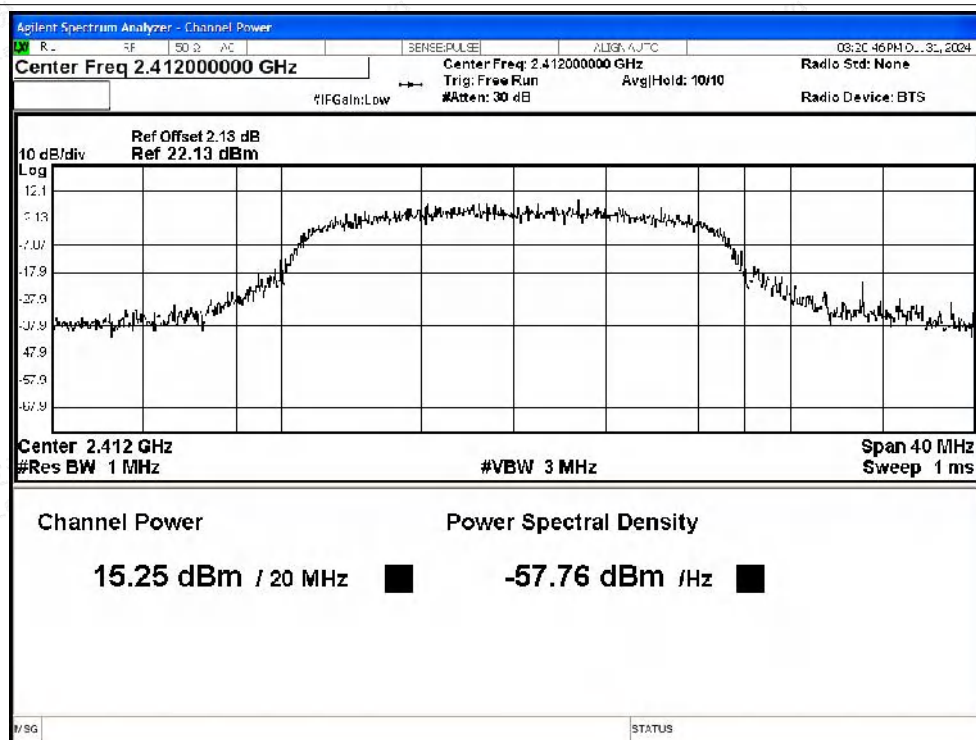
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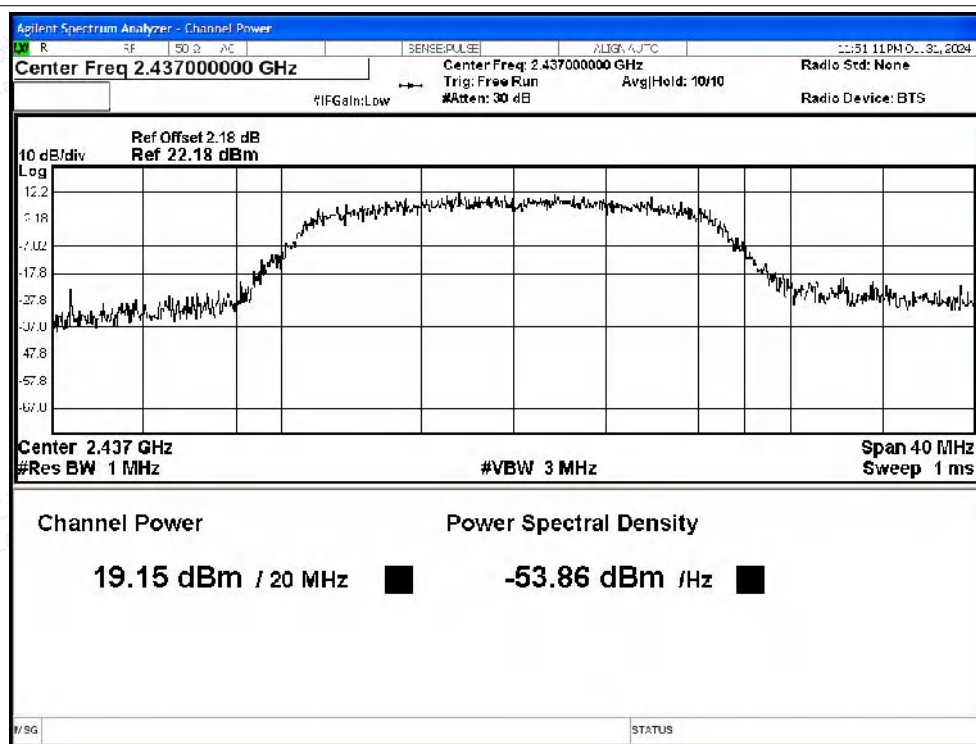
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Power NVNT n20 2412MHz Ant1



Power NVNT n20 2437MHz Ant1



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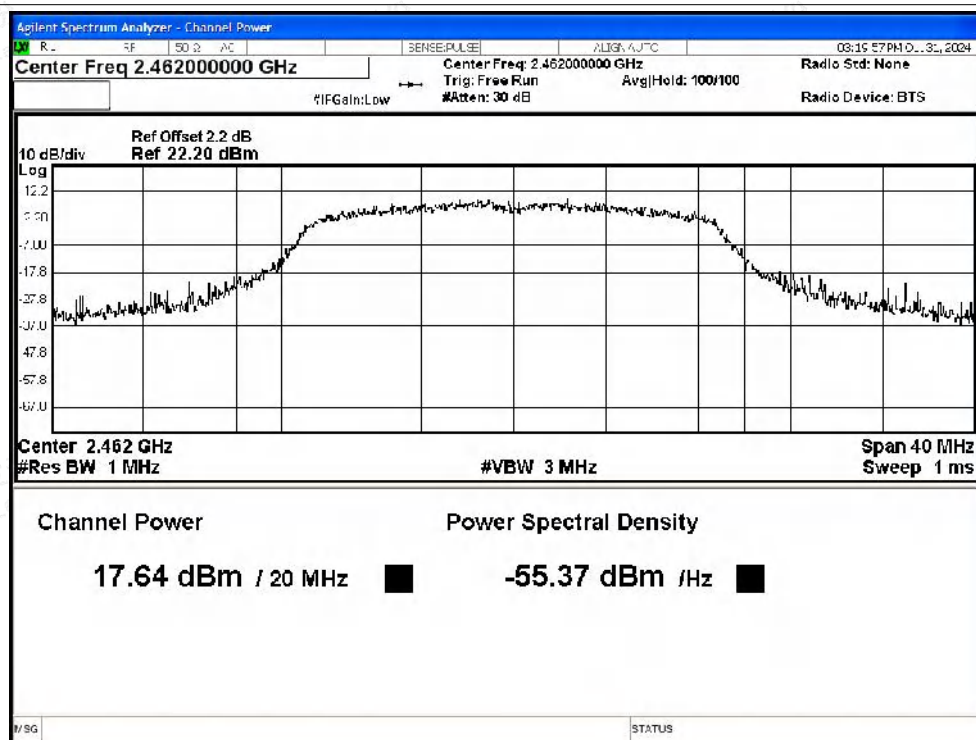
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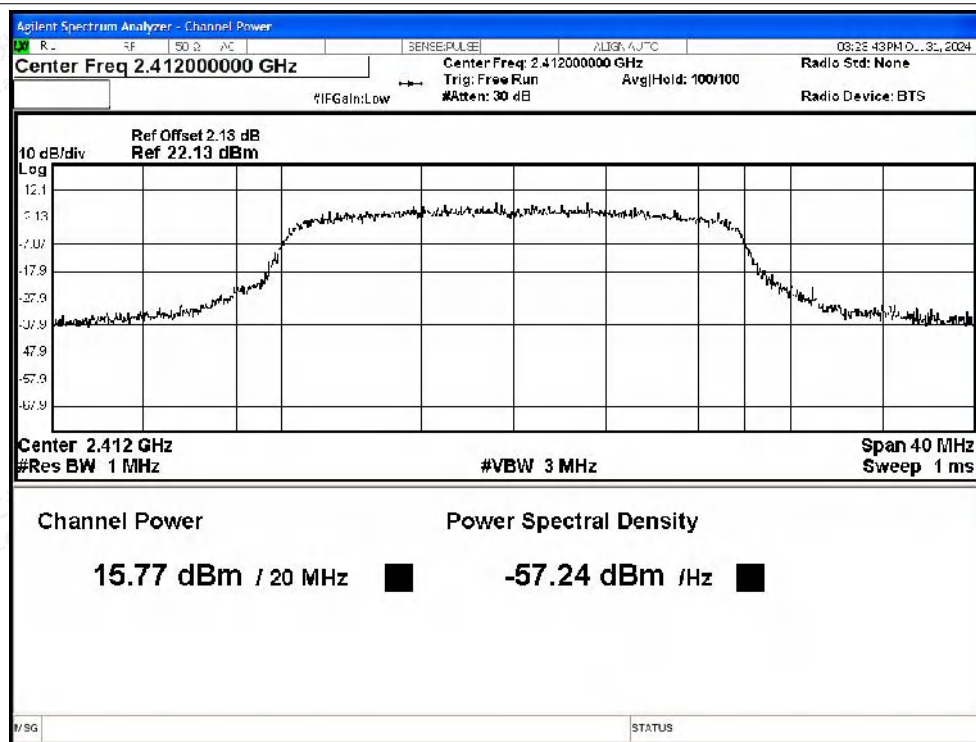
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Power NVNT n20 2462MHz Ant1



Power NVNT ax20 2412MHz Ant1



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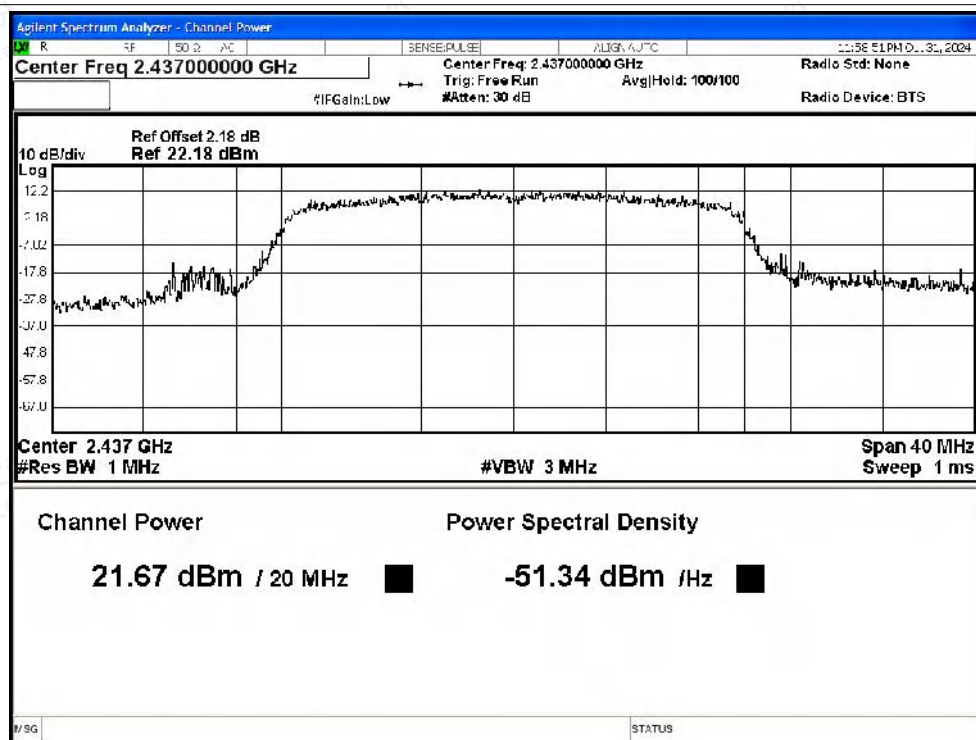
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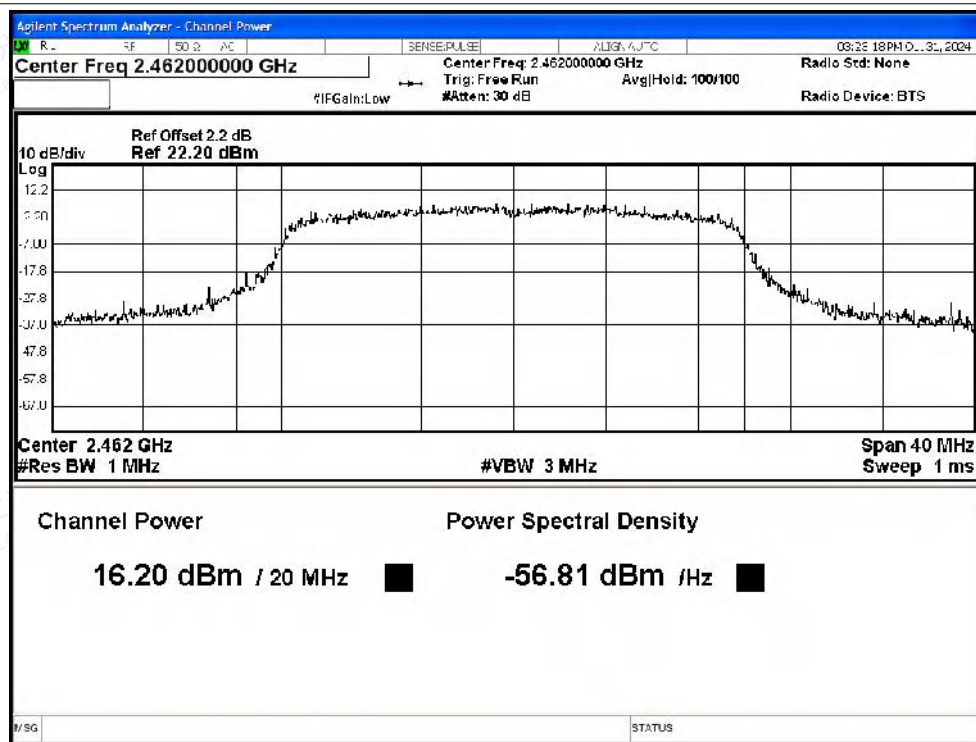
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Power NVNT ax20 2437MHz Ant1



Power NVNT ax20 2462MHz Ant1



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B.3 Maximum Power Spectral Density Level

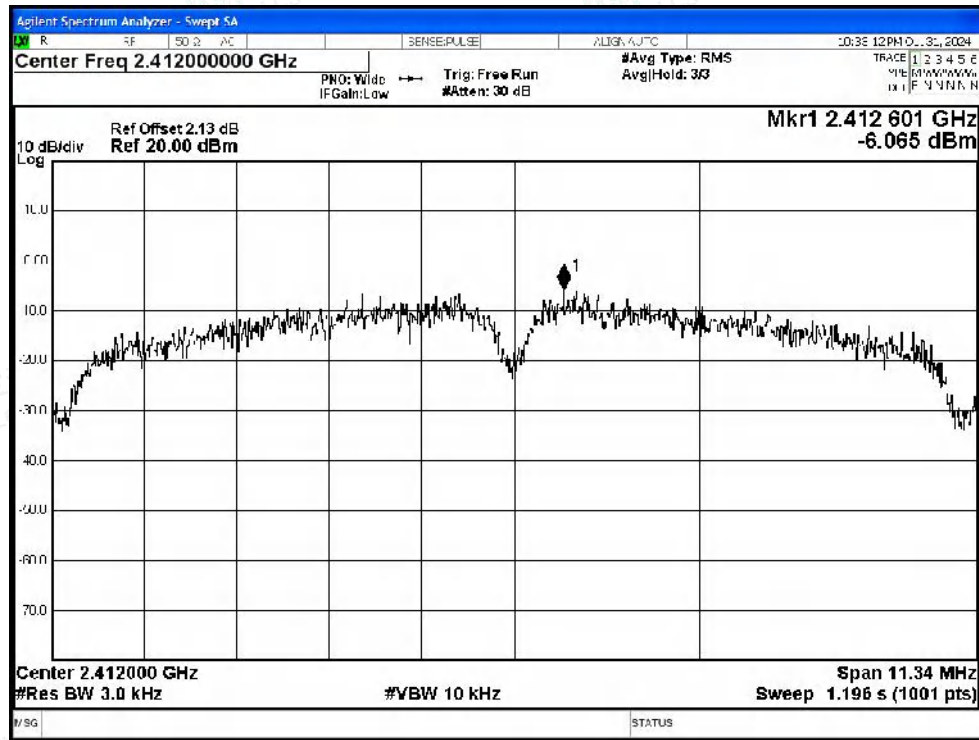
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant0	-6.07	0	-6.07	8	Pass
NVNT	b	2437	Ant0	-4.83	0	-4.83	8	Pass
NVNT	b	2462	Ant0	-3.99	0	-3.99	8	Pass
NVNT	g	2412	Ant0	-8.34	0	-8.34	8	Pass
NVNT	g	2437	Ant0	-8.26	0	-8.26	8	Pass
NVNT	g	2462	Ant0	-7.36	0	-7.36	8	Pass
NVNT	n20	2412	Ant0	-8.46	0	-8.46	8	Pass
NVNT	n20	2437	Ant0	-8.68	0	-8.68	8	Pass
NVNT	n20	2462	Ant0	-9.74	0	-9.74	8	Pass
NVNT	ax20	2412	Ant0	-10.18	0	-10.18	8	Pass
NVNT	ax20	2437	Ant0	-9.12	0	-9.12	8	Pass
NVNT	ax20	2462	Ant0	-10.34	0	-10.34	8	Pass



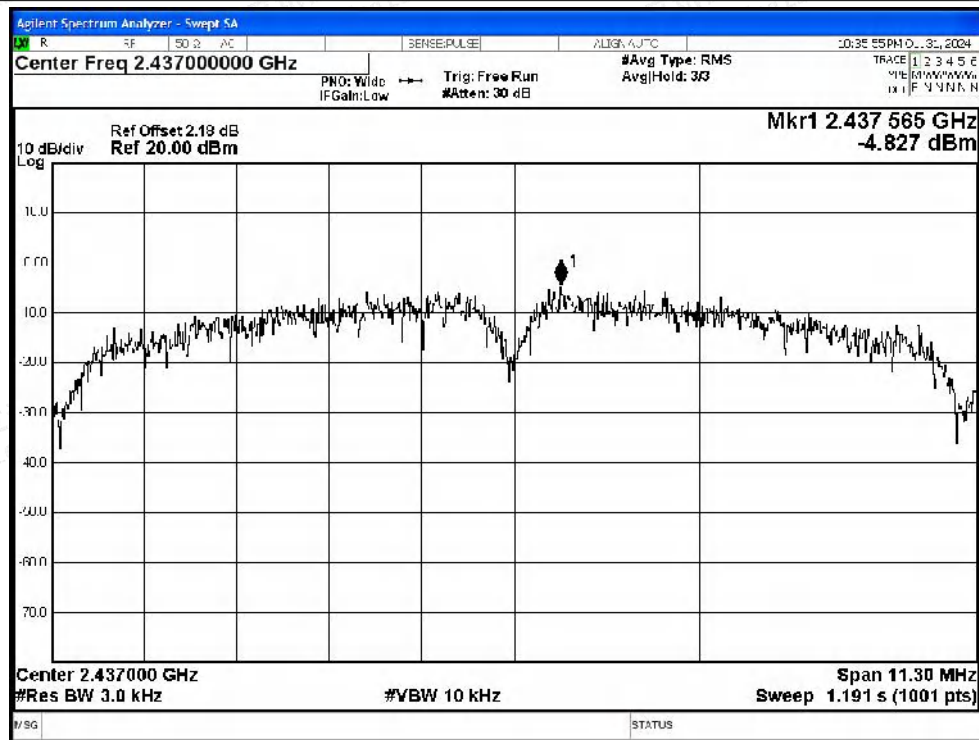


Test Graphs

PSD NVNT b 2412MHz Ant0

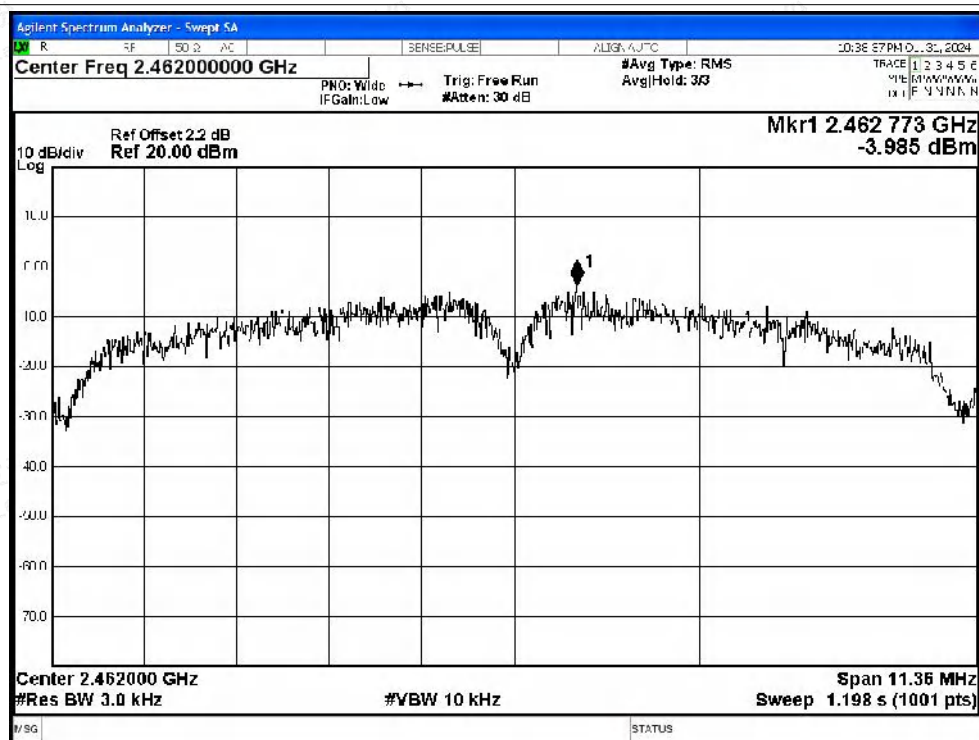


PSD NVNT b 2437MHz Ant0

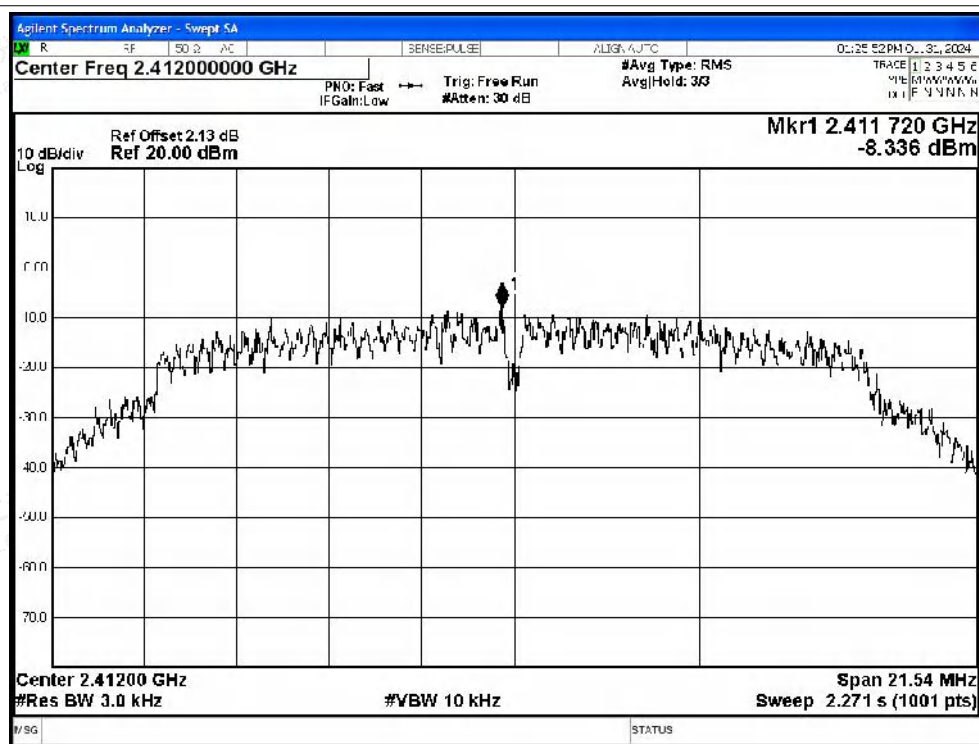




PSD NVNT b 2462MHz Ant0

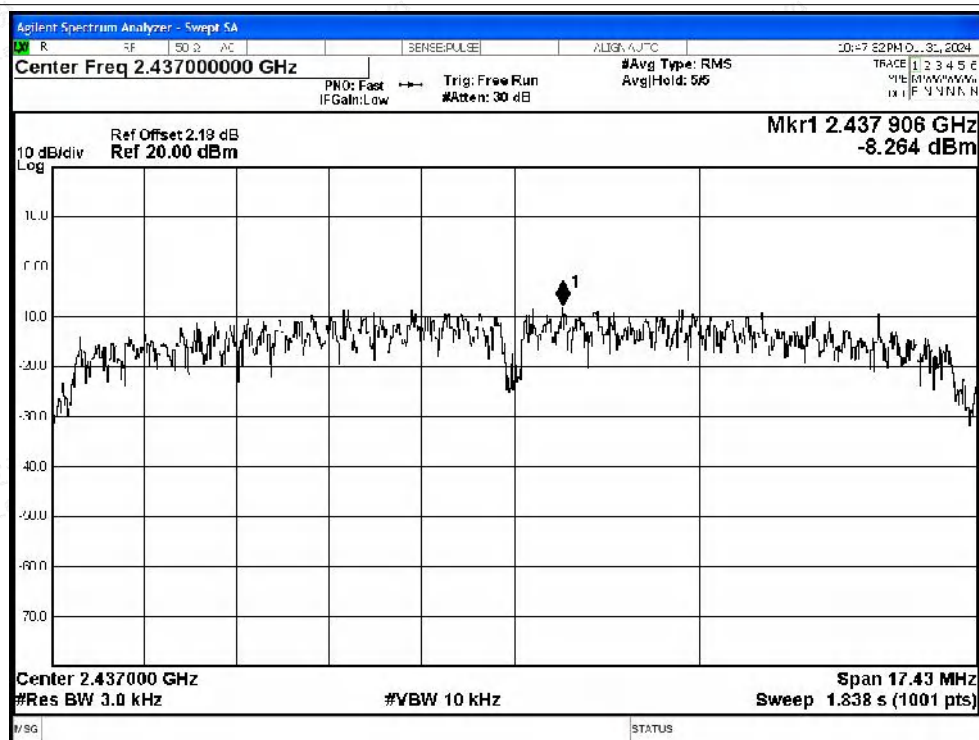


PSD NVNT g 2412MHz Ant0

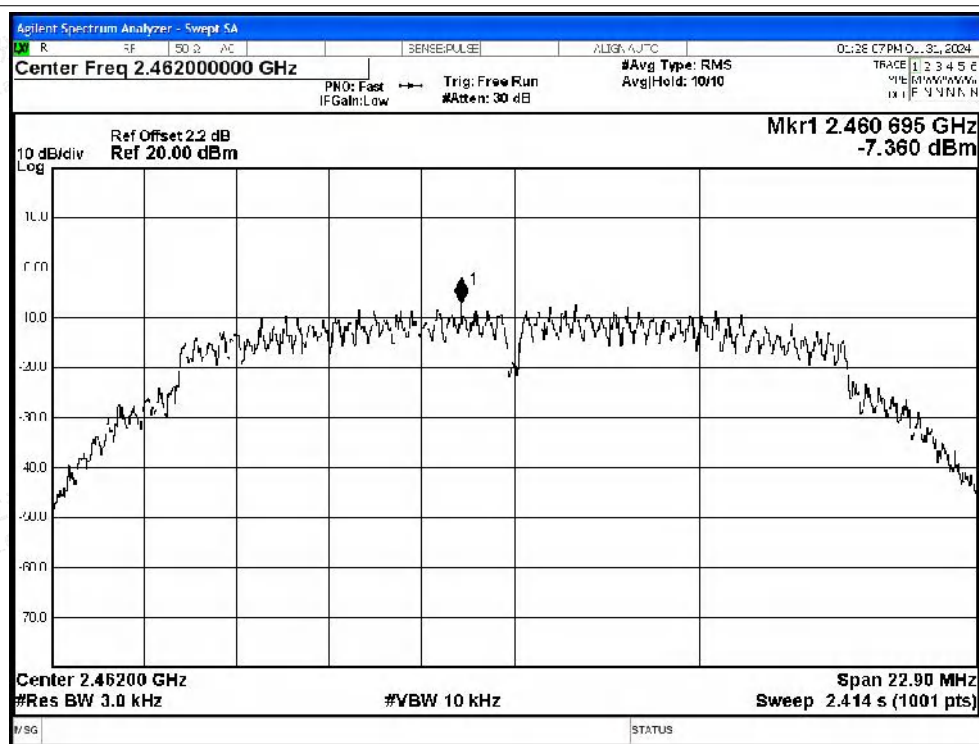


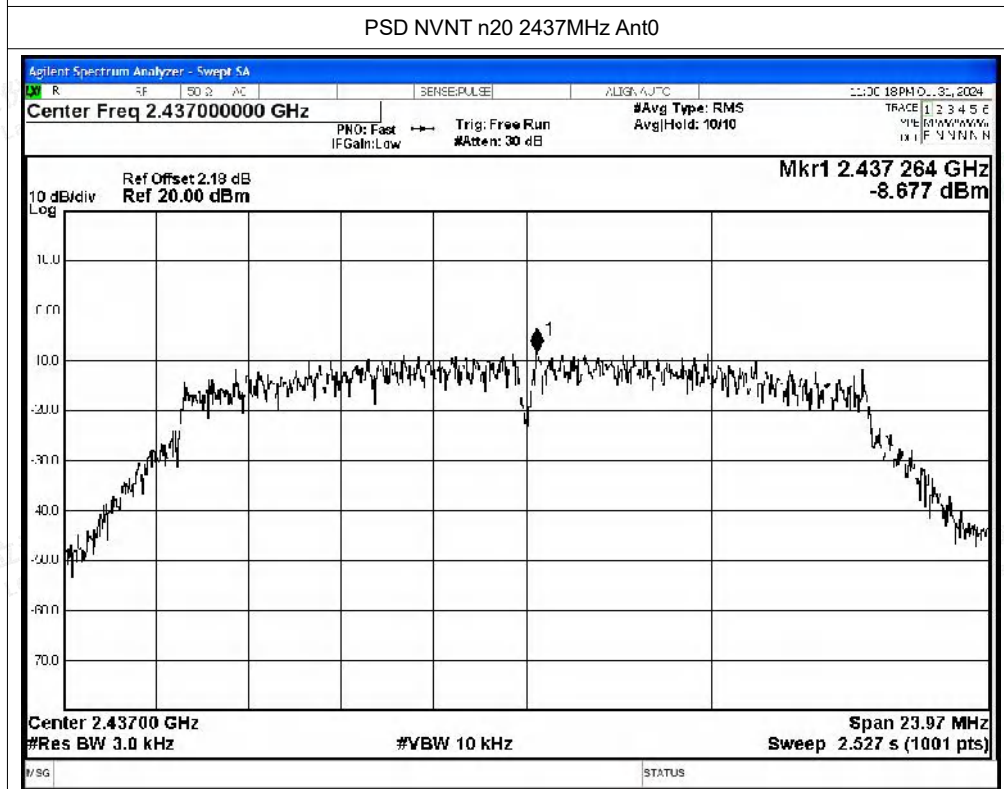
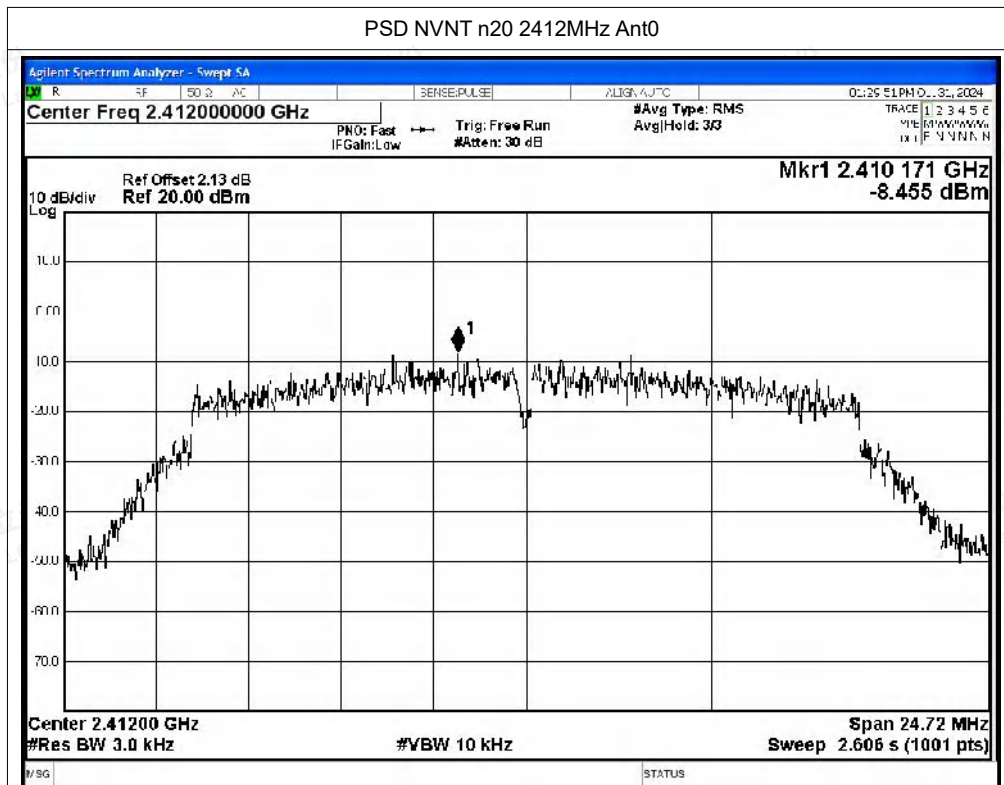


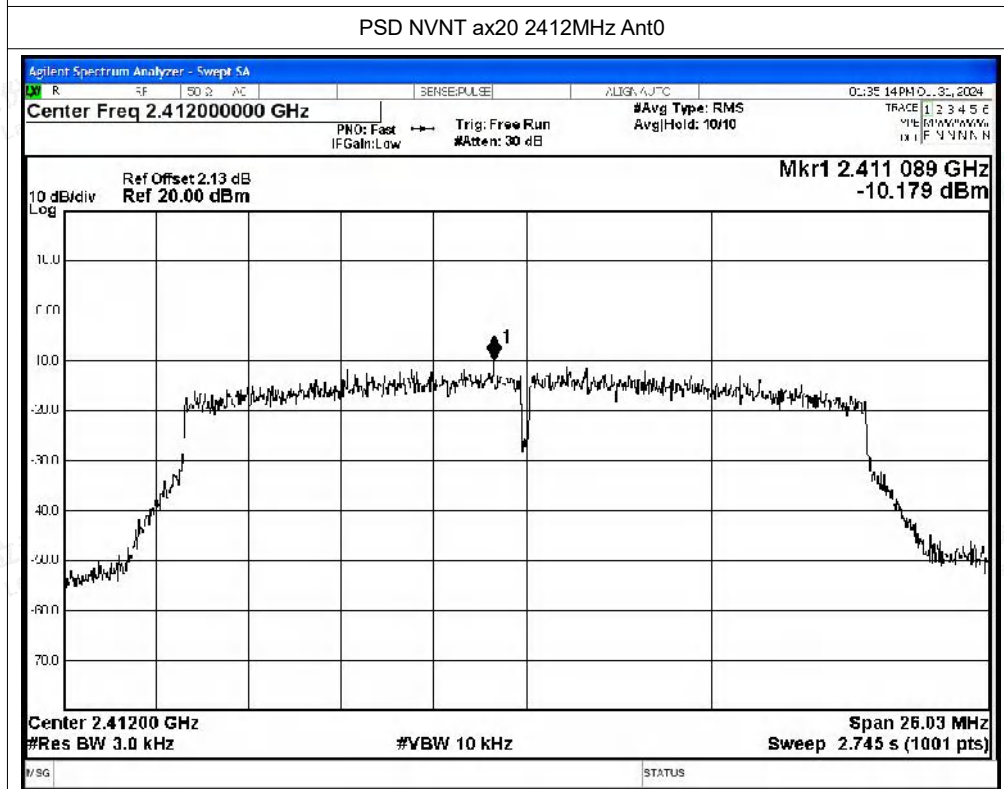
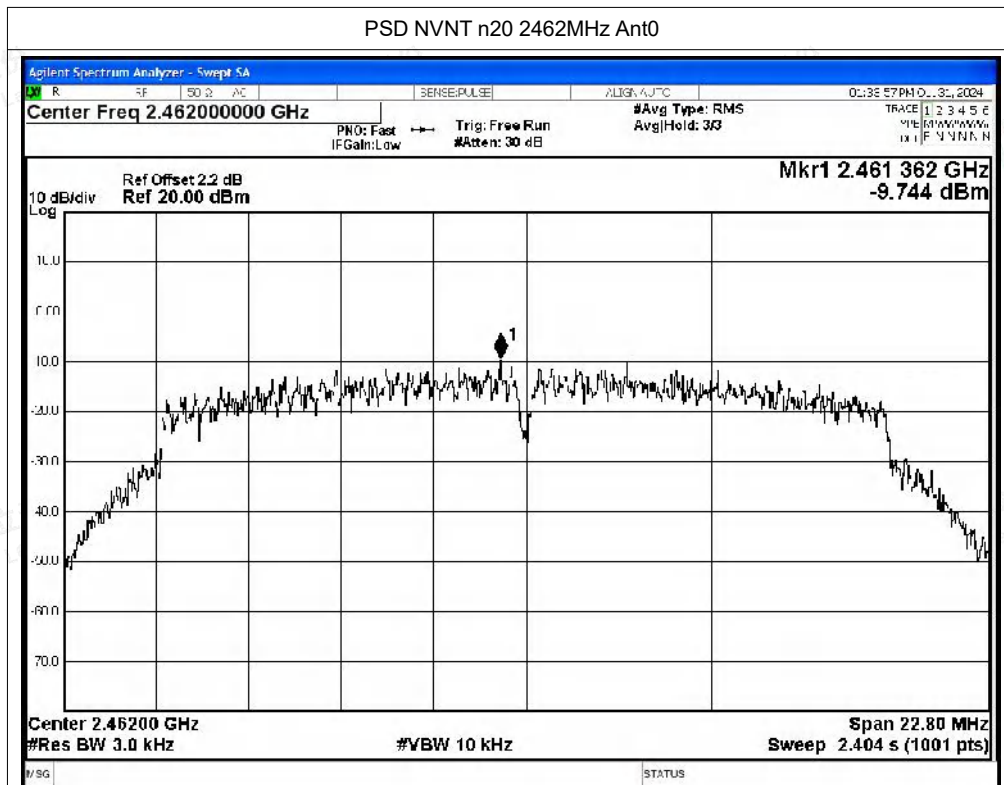
PSD NVNT g 2437MHz Ant0



PSD NVNT g 2462MHz Ant0

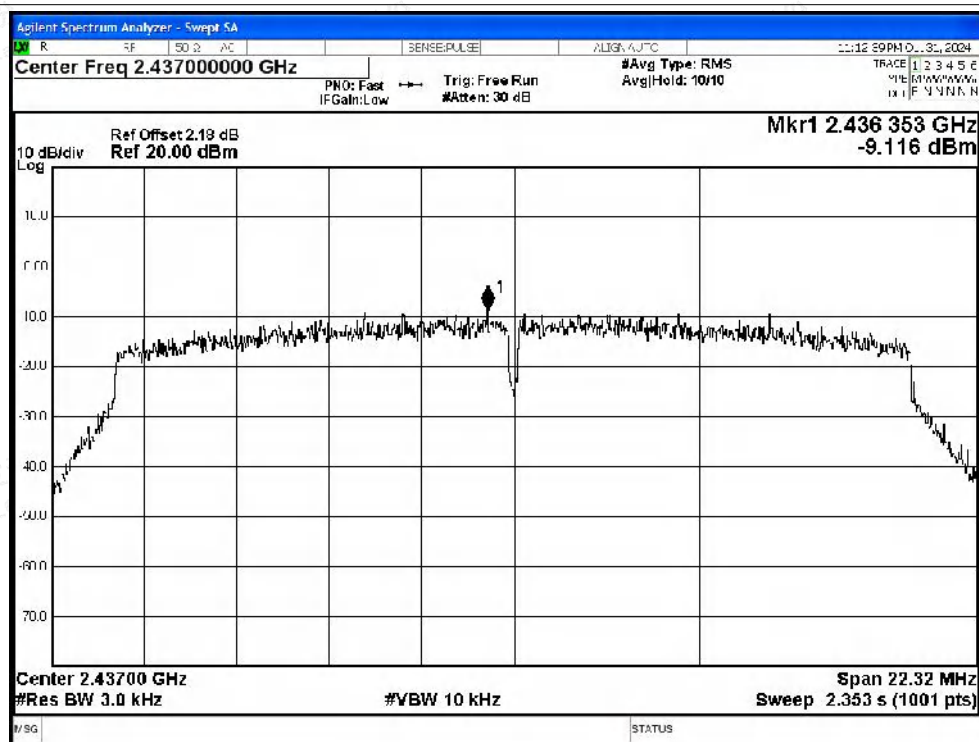




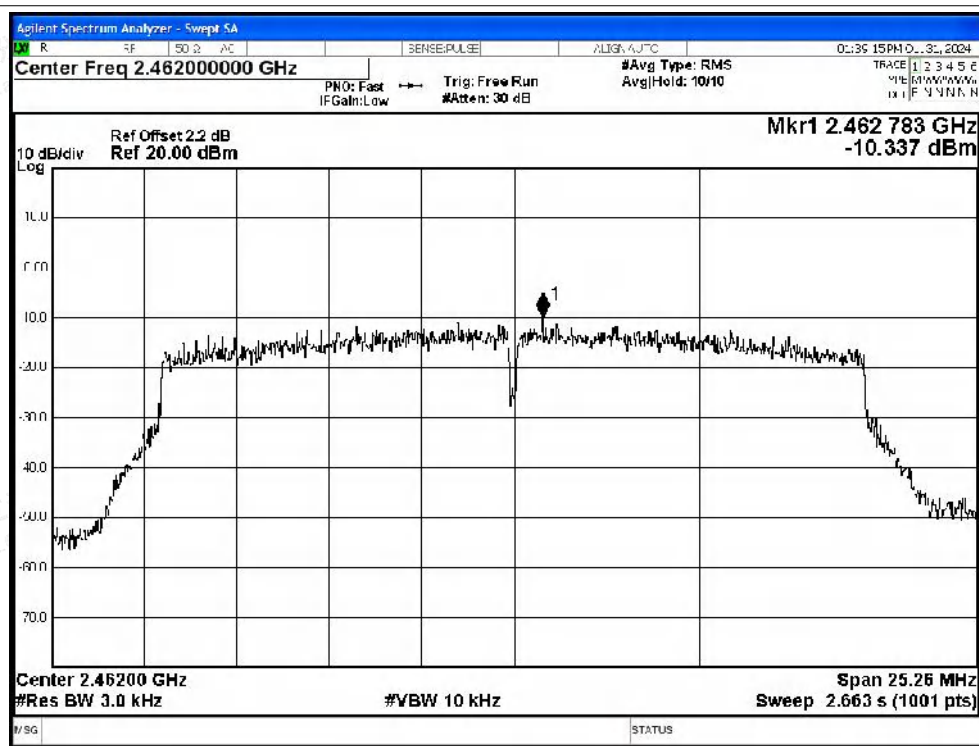




PSD NVNT ax20 2437MHz Ant0



PSD NVNT ax20 2462MHz Ant0





Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-6	0	-6	8	Pass
NVNT	b	2437	Ant1	-4.95	0	-4.95	8	Pass
NVNT	b	2462	Ant1	-5.27	0	-5.27	8	Pass
NVNT	g	2412	Ant1	-7.04	0	-7.04	8	Pass
NVNT	g	2437	Ant1	-7.39	0	-7.39	8	Pass
NVNT	g	2462	Ant1	-7.7	0	-7.7	8	Pass
NVNT	n20	2412	Ant1	-7.58	0	-7.58	8	Pass
NVNT	n20	2437	Ant1	-7.46	0	-7.46	8	Pass
NVNT	n20	2462	Ant1	-10.16	0	-10.16	8	Pass
NVNT	ax20	2412	Ant1	-11.5	0	-11.5	8	Pass
NVNT	ax20	2437	Ant1	-8.71	0	-8.71	8	Pass
NVNT	ax20	2462	Ant1	-8.89	0	-8.89	8	Pass

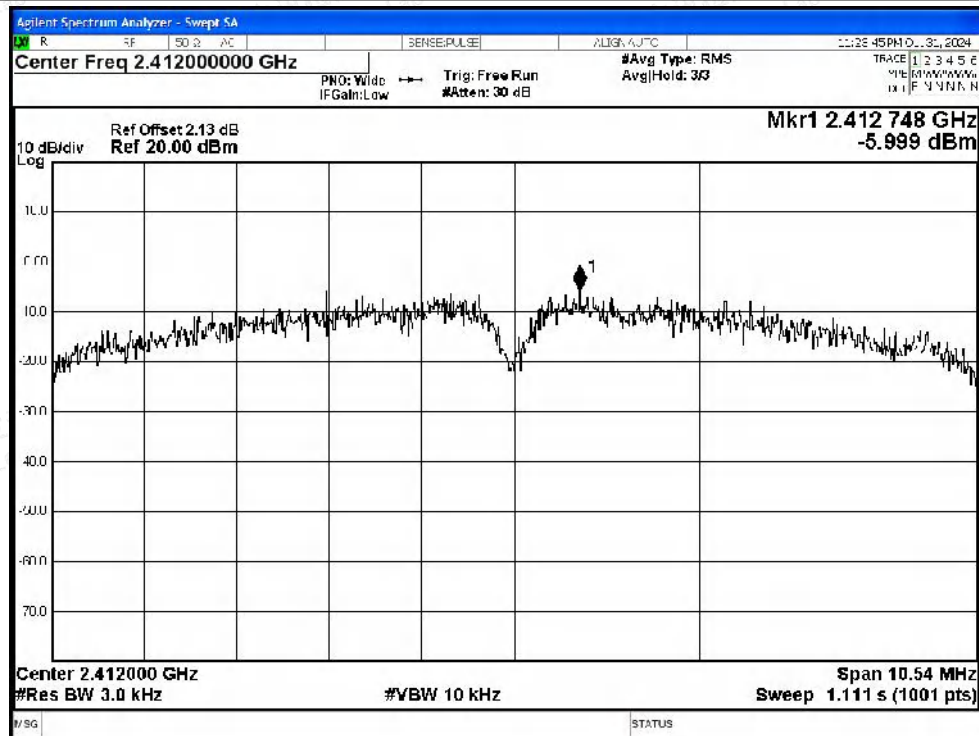


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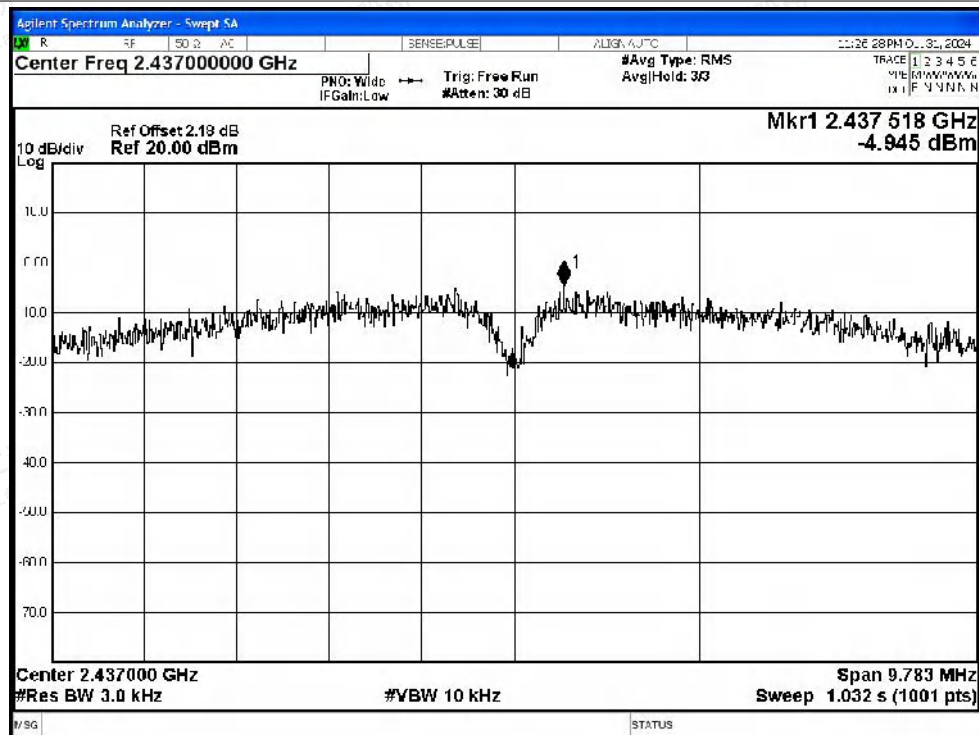


Test Graphs

PSD NVNT b 2412MHz Ant1

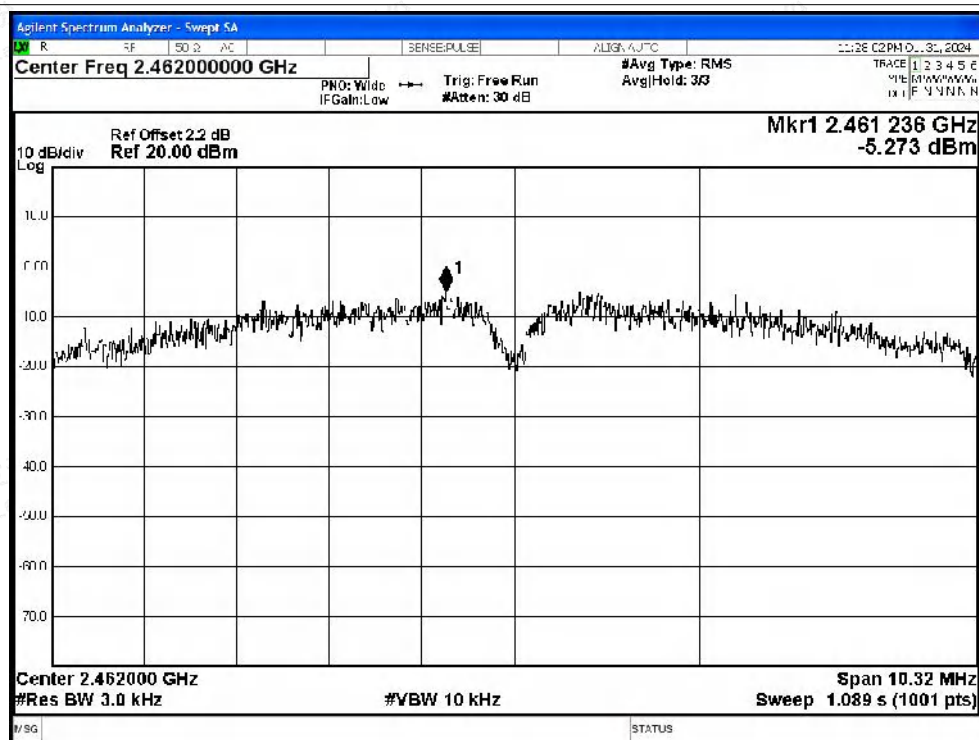


PSD NVNT b 2437MHz Ant1

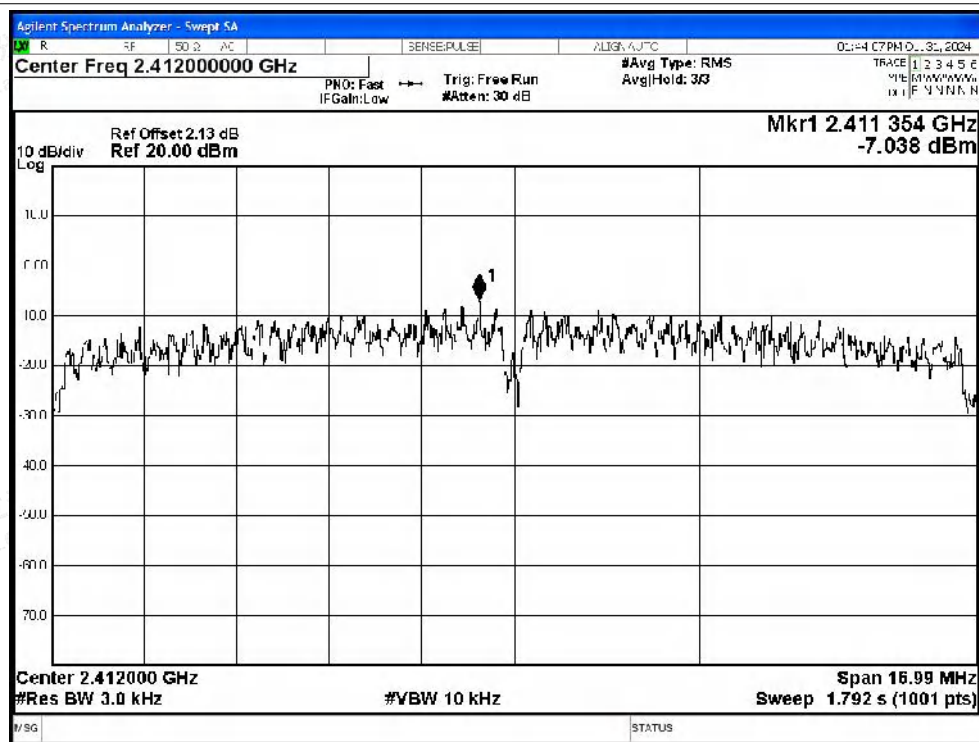




PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

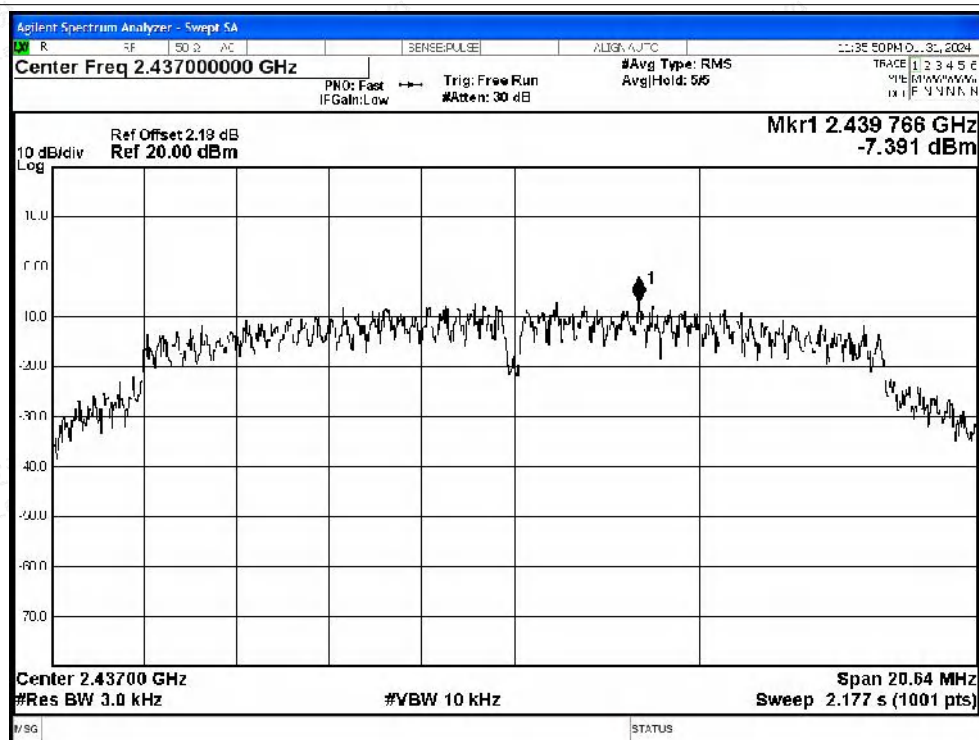
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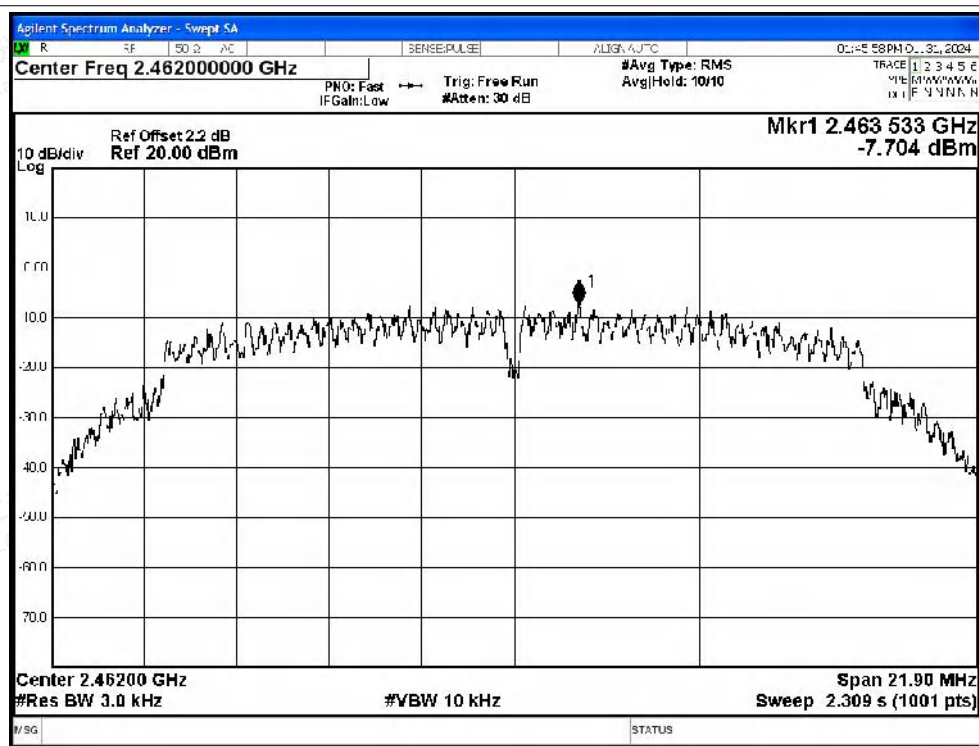
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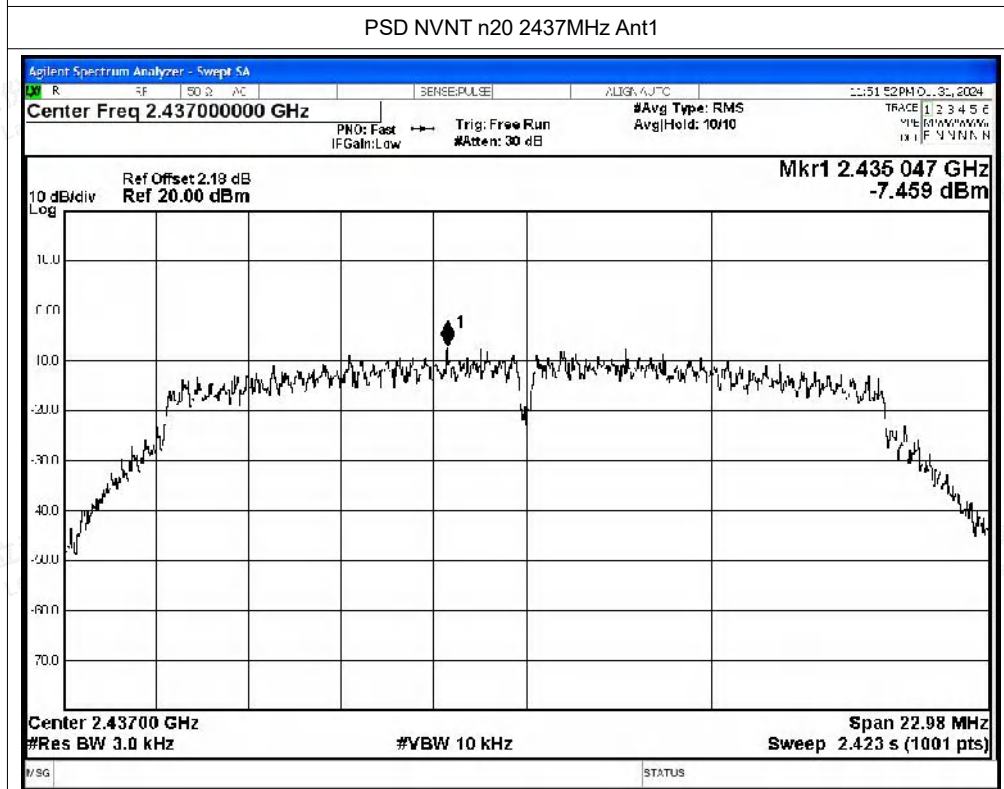
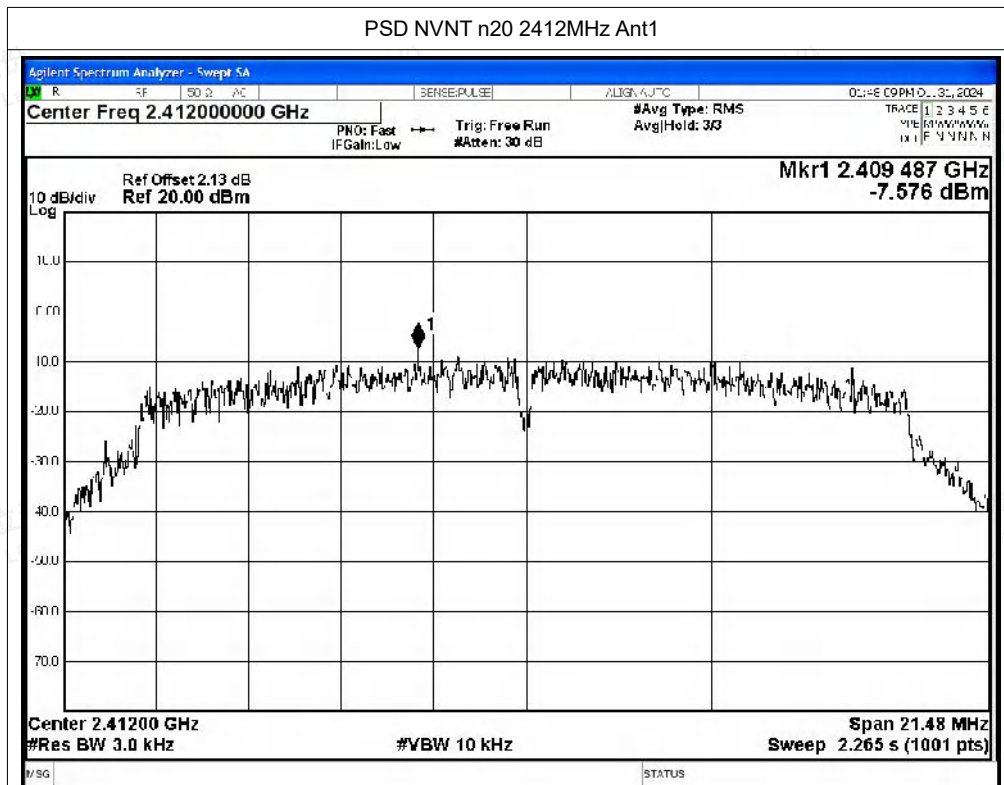


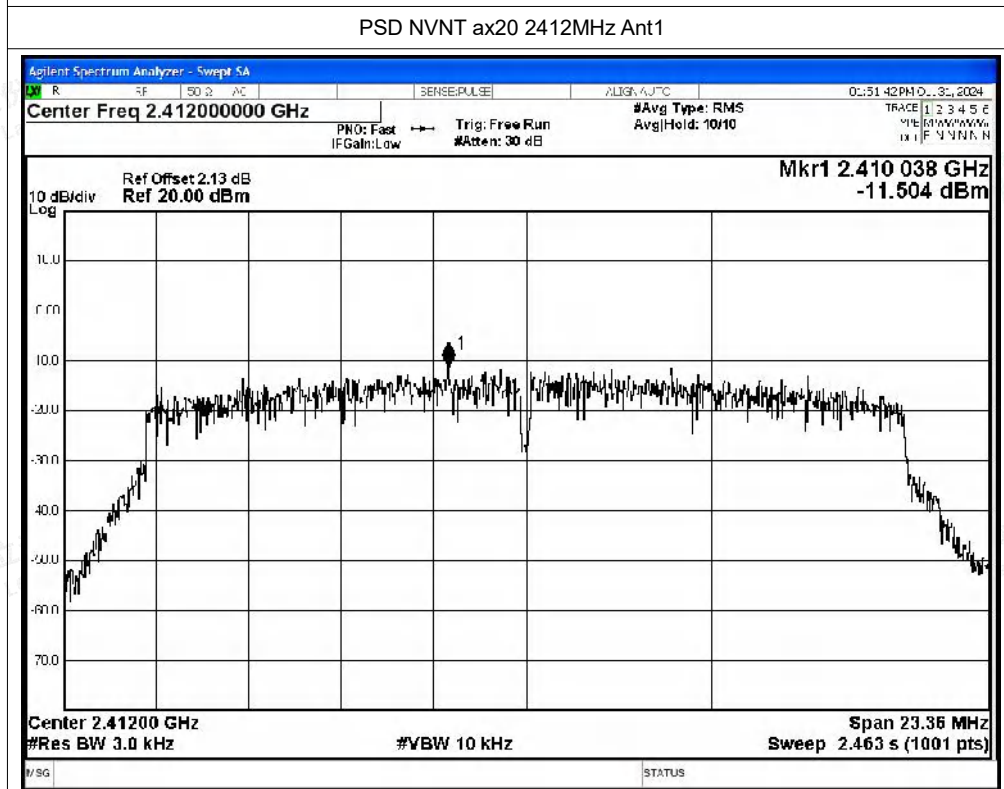
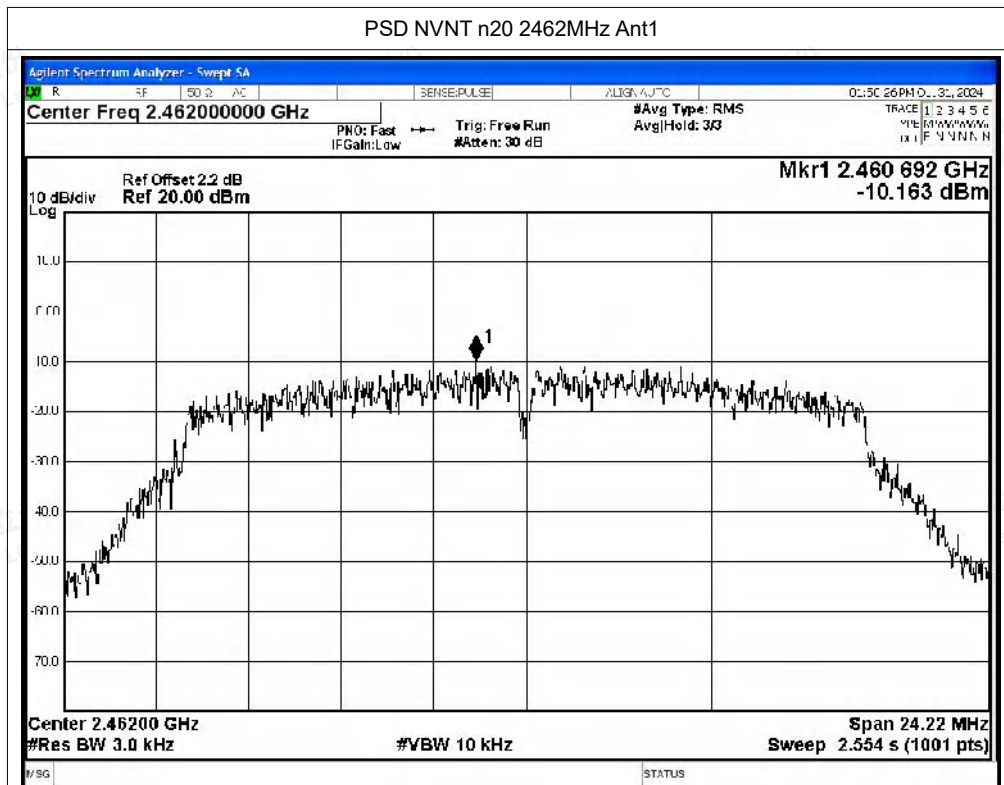
PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

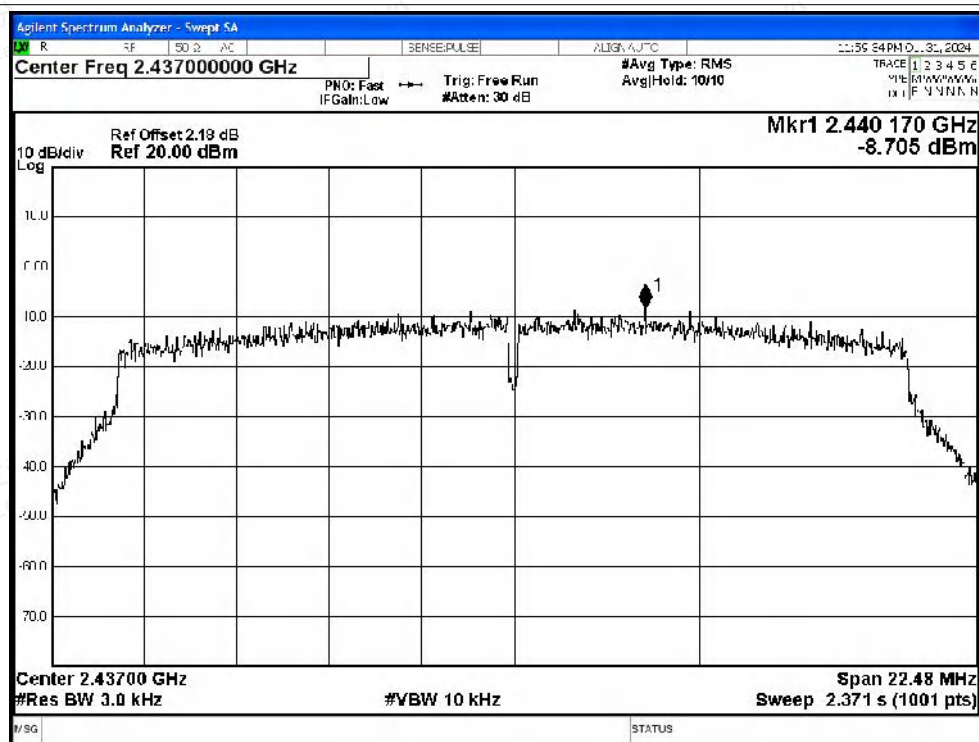




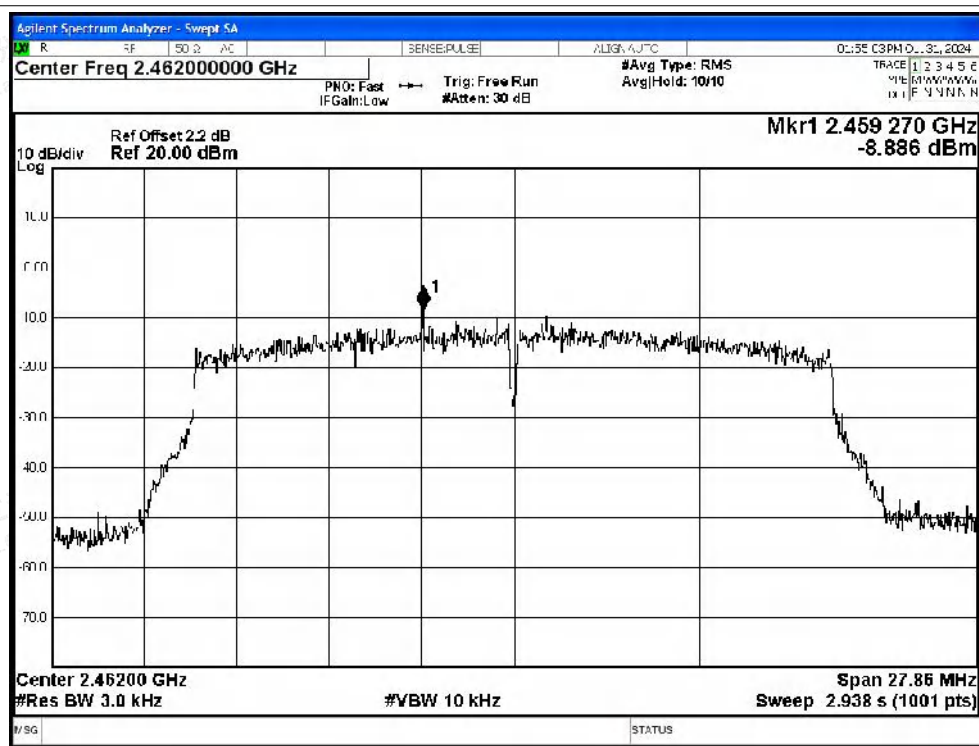




PSD NVNT ax20 2437MHz Ant1



PSD NVNT ax20 2462MHz Ant1





B.4 Band Edge

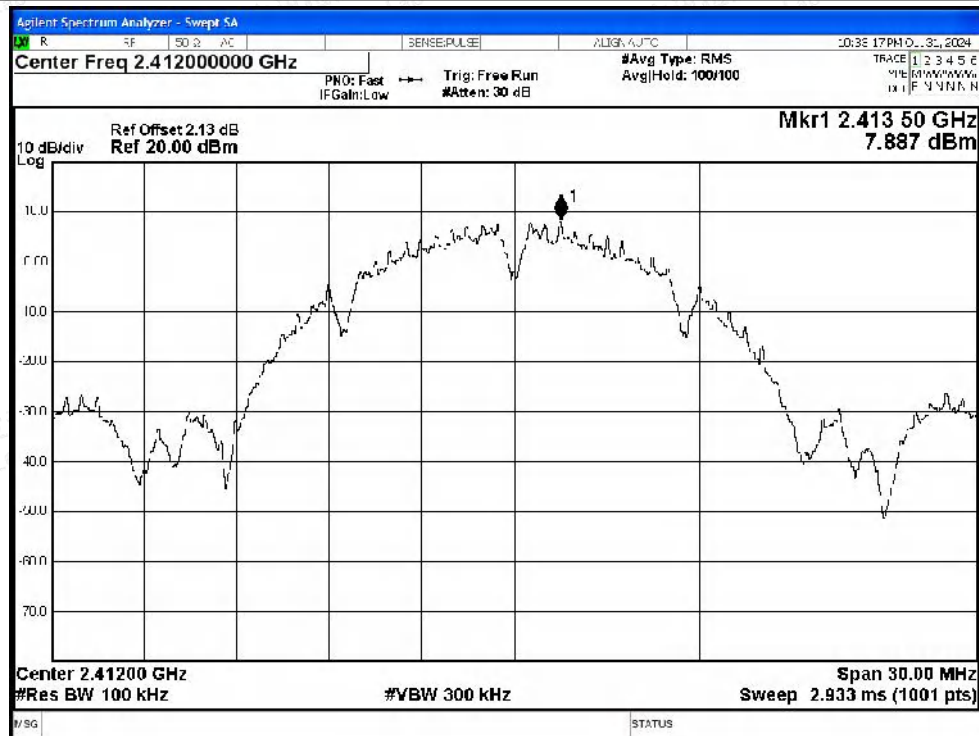
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant0	-36.55	-20	Pass
NVNT	b	2462	Ant0	-58.68	-20	Pass
NVNT	g	2412	Ant0	-34.35	-20	Pass
NVNT	g	2462	Ant0	-52.61	-20	Pass
NVNT	n20	2412	Ant0	-34.85	-20	Pass
NVNT	n20	2462	Ant0	-48.81	-20	Pass
NVNT	ax20	2412	Ant0	-31.63	-20	Pass
NVNT	ax20	2462	Ant0	-42.5	-20	Pass



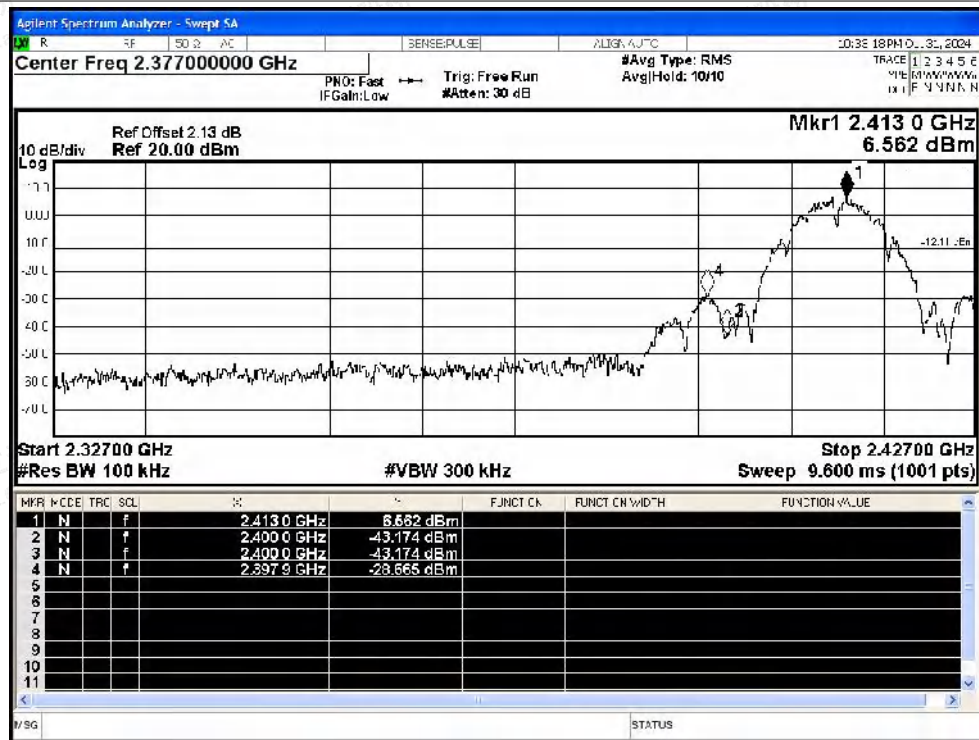


Test Graphs

Band Edge NVNT b 2412MHz Ant0 Ref

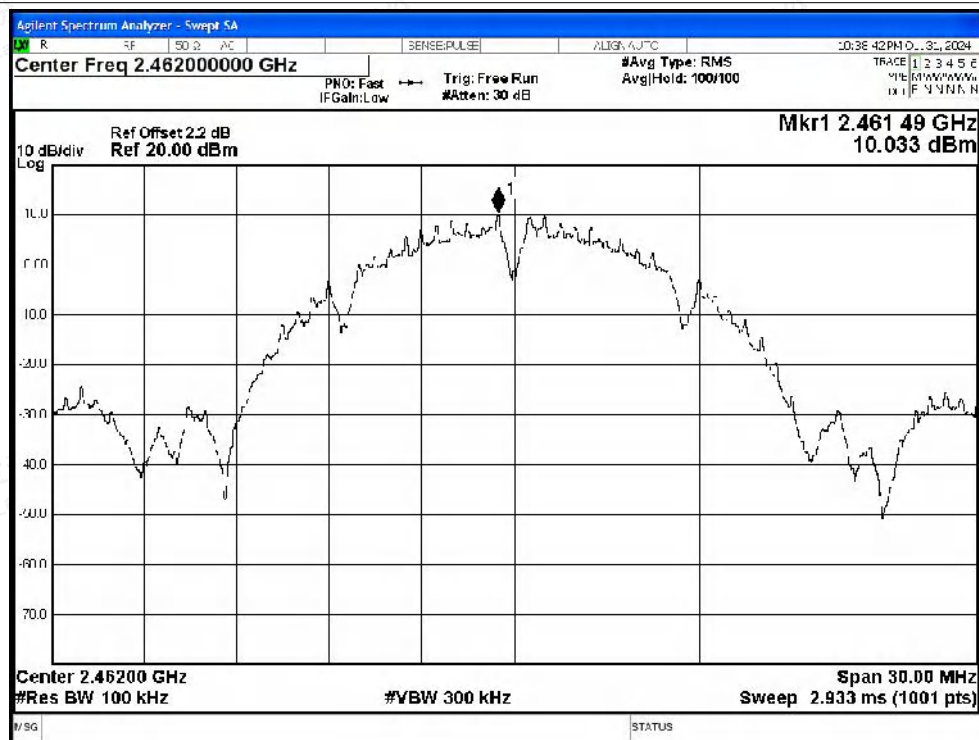


Band Edge NVNT b 2412MHz Ant0 Emission





Band Edge NVNT b 2462MHz Ant0 Ref



Band Edge NVNT b 2462MHz Ant0 Emission



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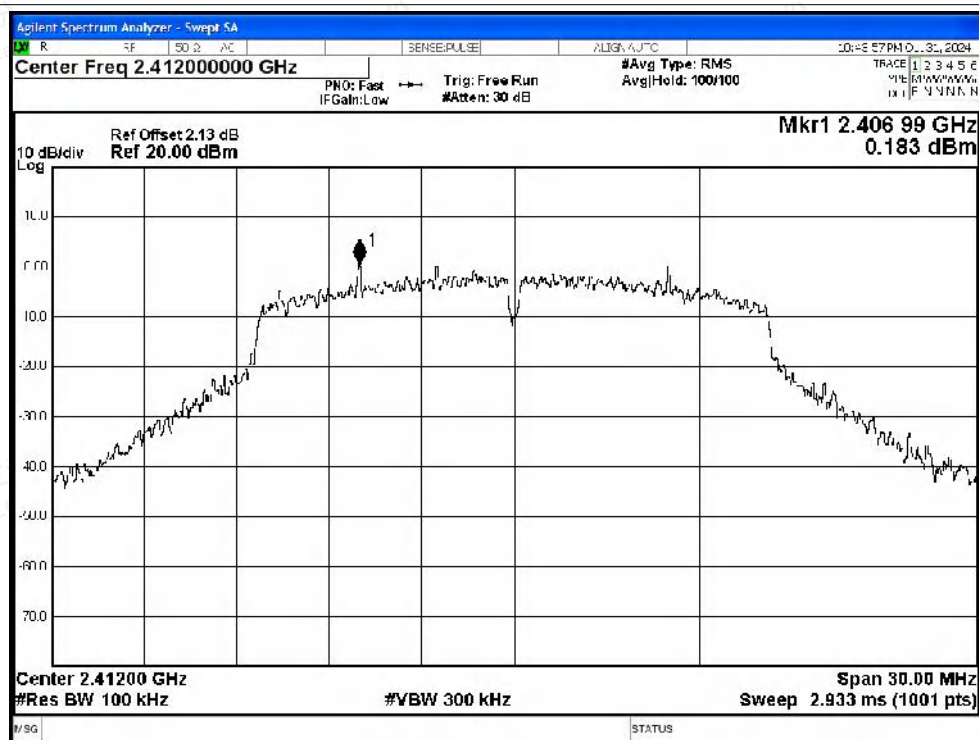
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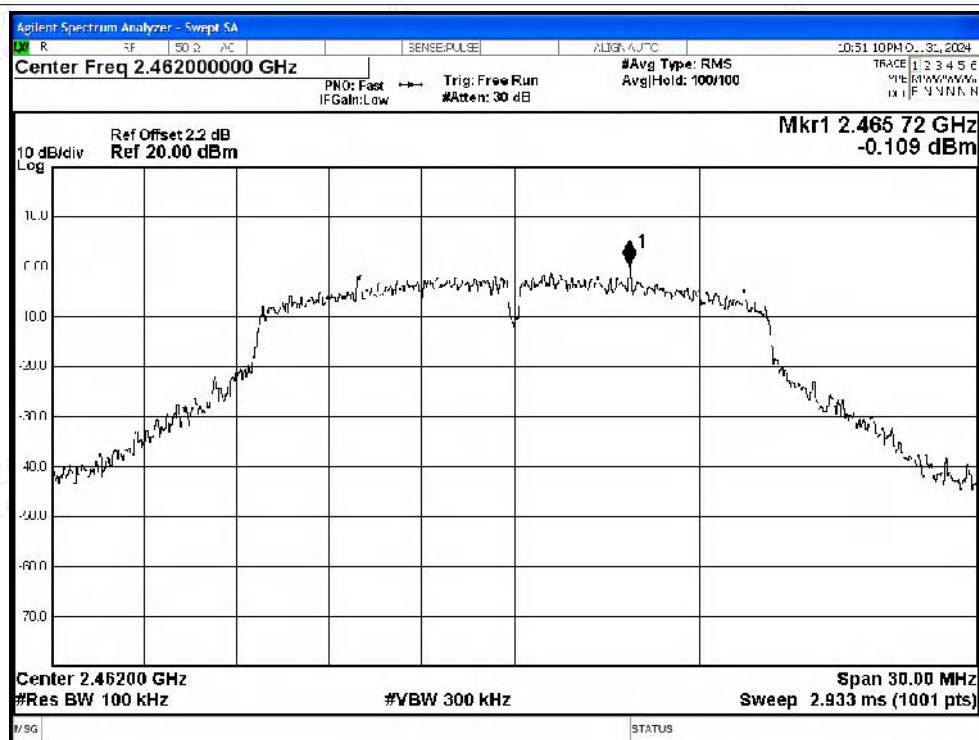
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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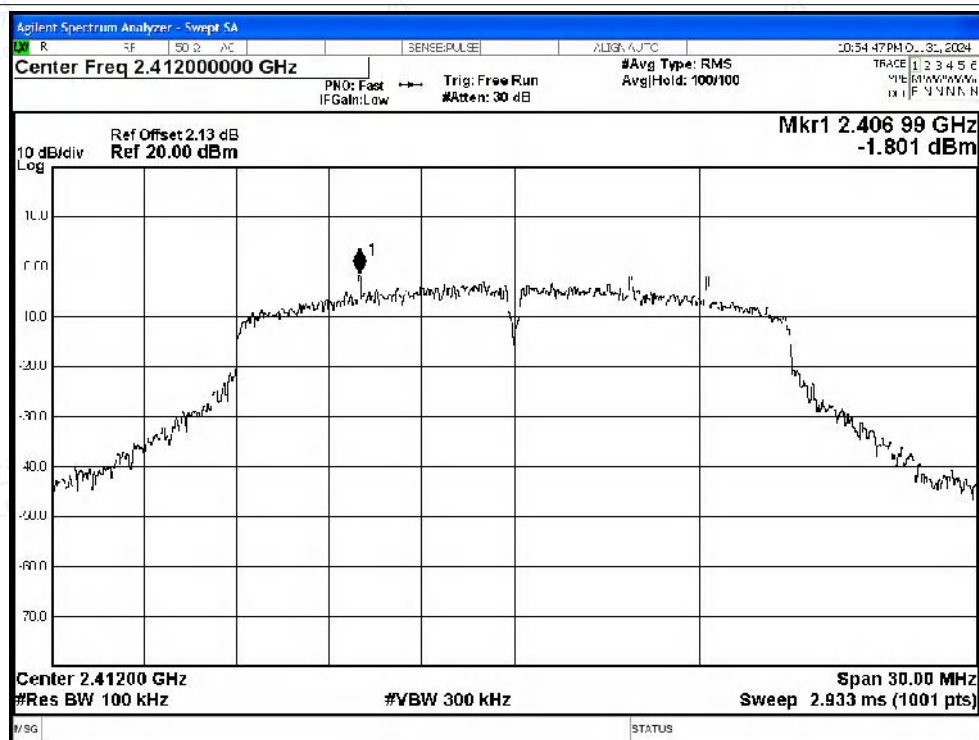
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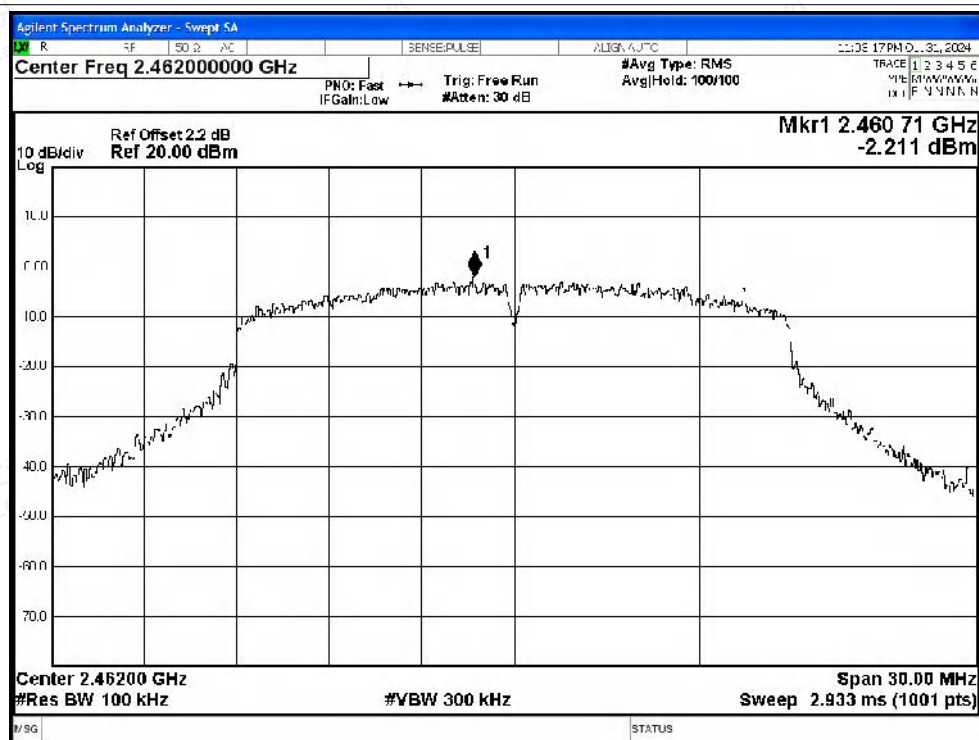
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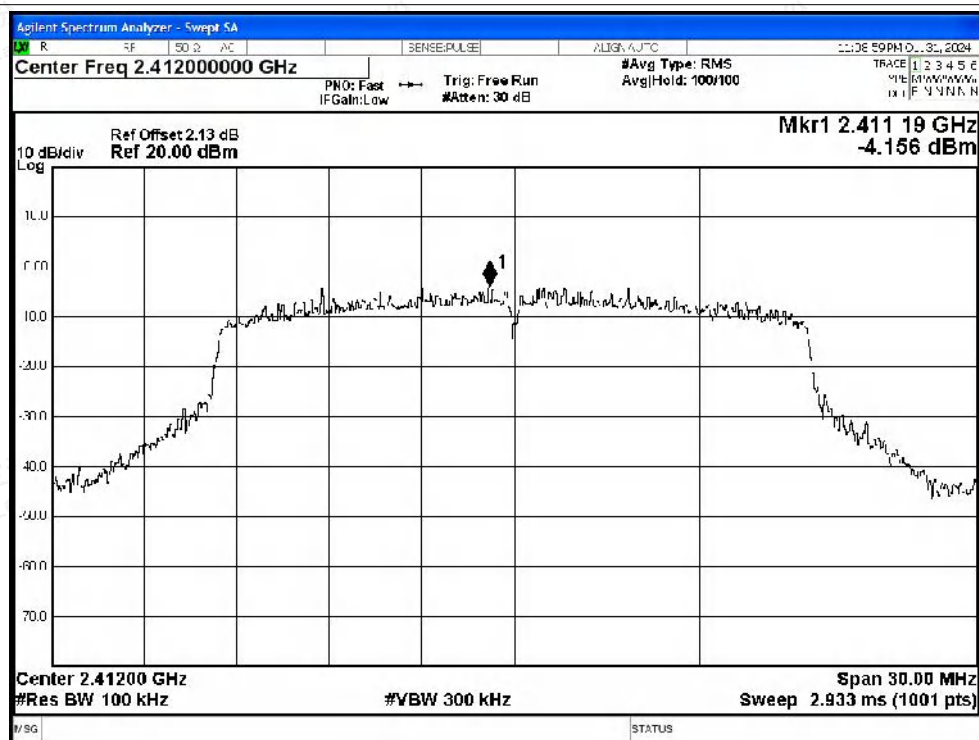


Band Edge NVNT n20 2462MHz Ant0 Emission

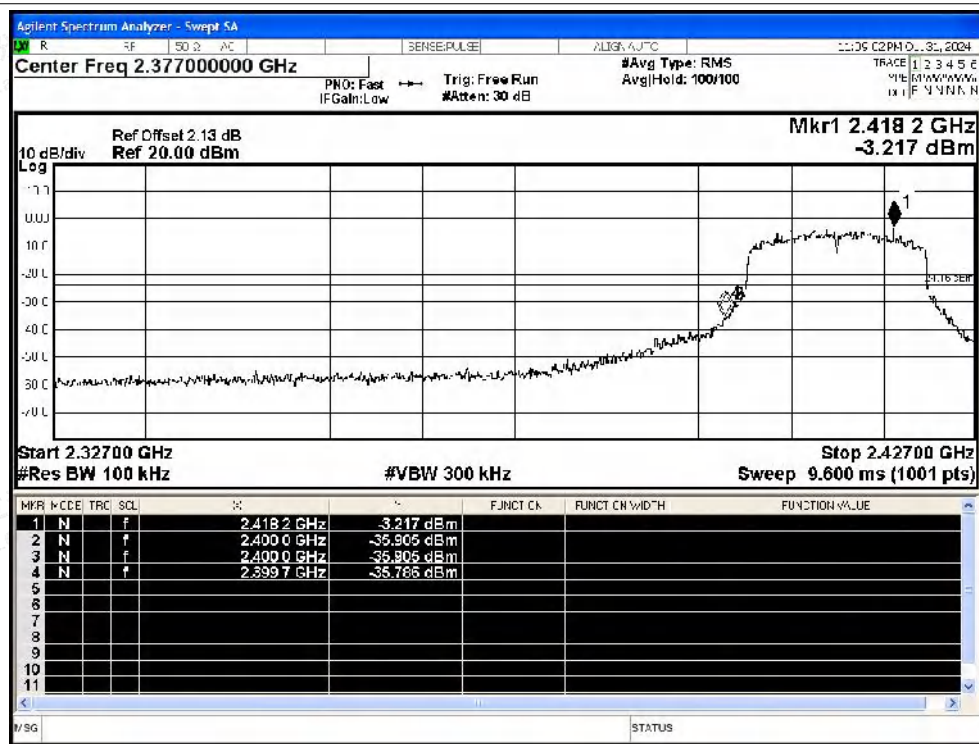




Band Edge NVNT ax20 2412MHz Ant0 Ref



Band Edge NVNT ax20 2412MHz Ant0 Emission



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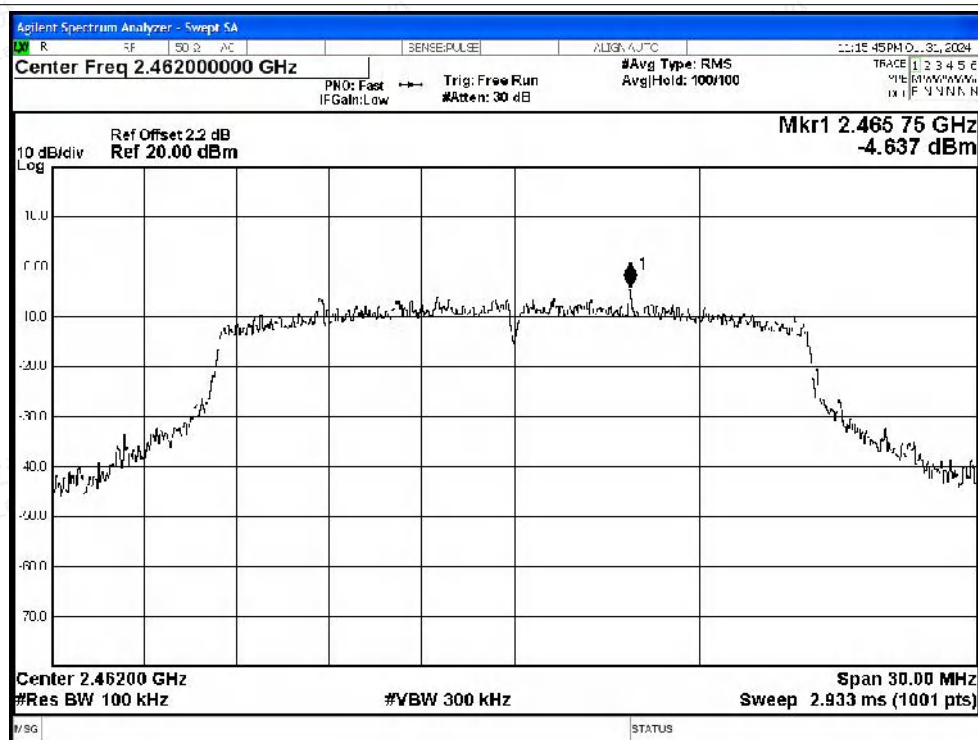
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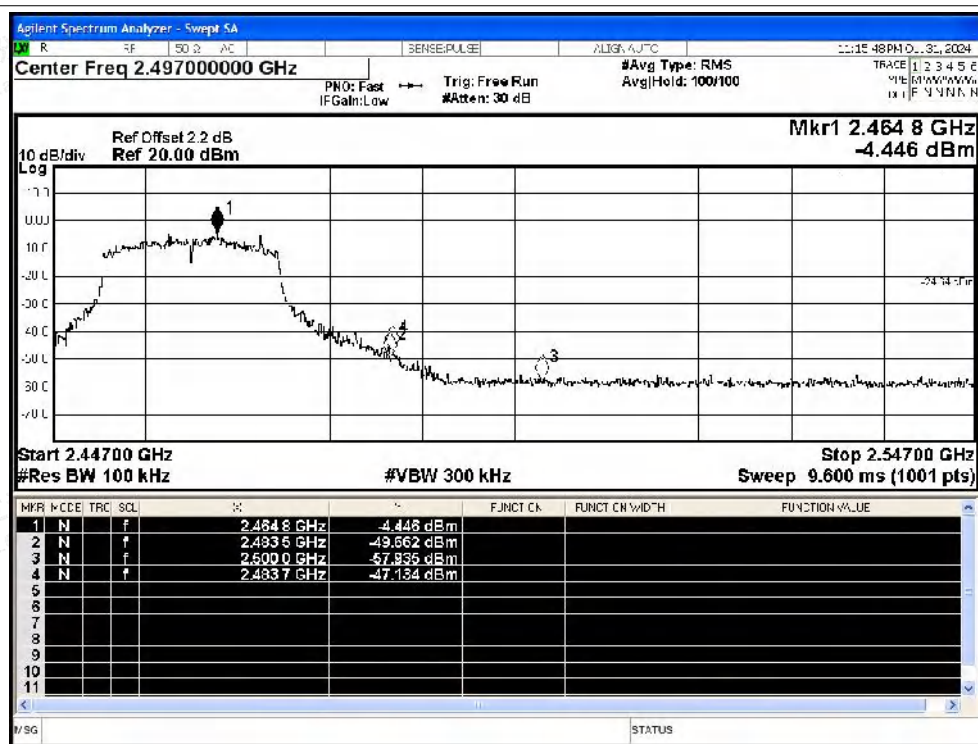
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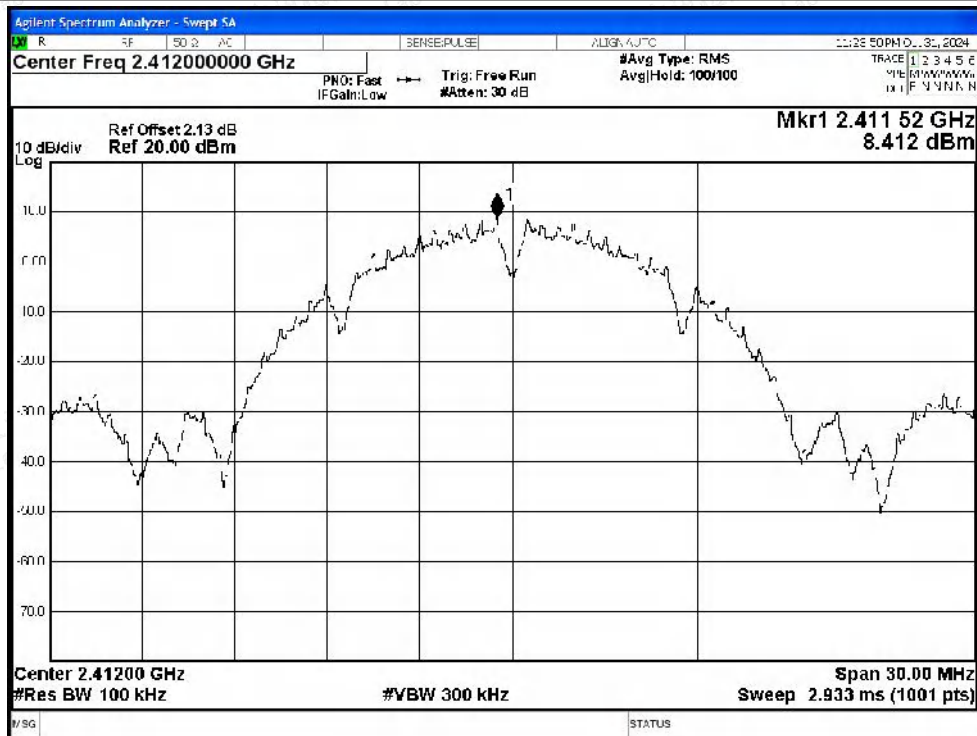


Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-36.87	-20	Pass
NVNT	b	2462	Ant1	-57.84	-20	Pass
NVNT	g	2412	Ant1	-32.49	-20	Pass
NVNT	g	2462	Ant1	-50.01	-20	Pass
NVNT	n20	2412	Ant1	-34.78	-20	Pass
NVNT	n20	2462	Ant1	-48.23	-20	Pass
NVNT	ax20	2412	Ant1	-32.7	-20	Pass
NVNT	ax20	2462	Ant1	-44.12	-20	Pass

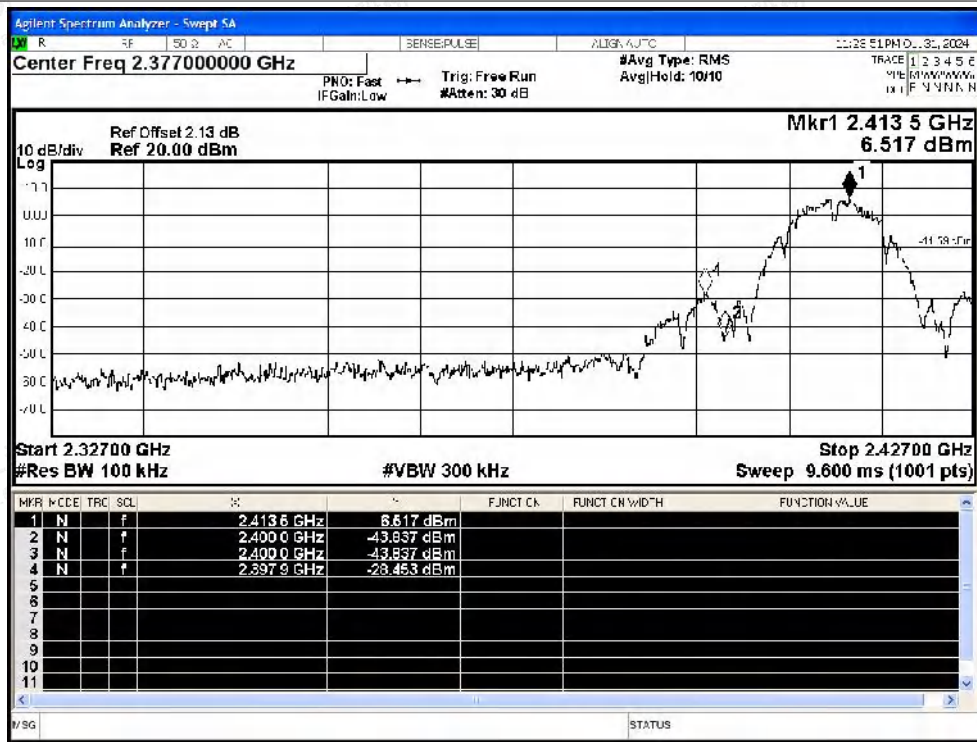


Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



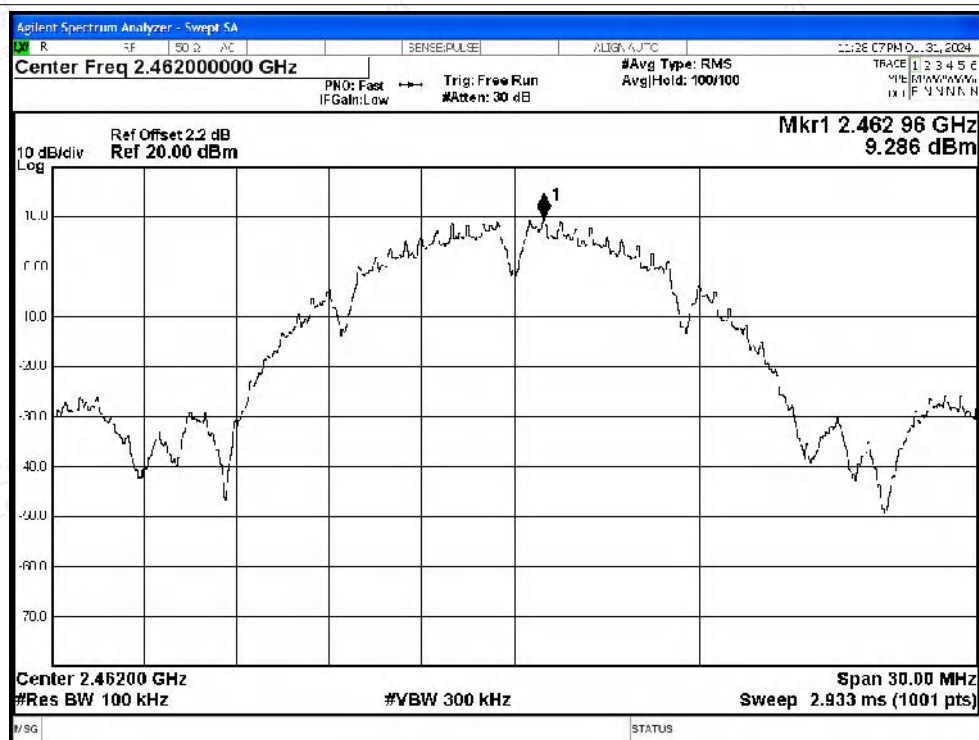
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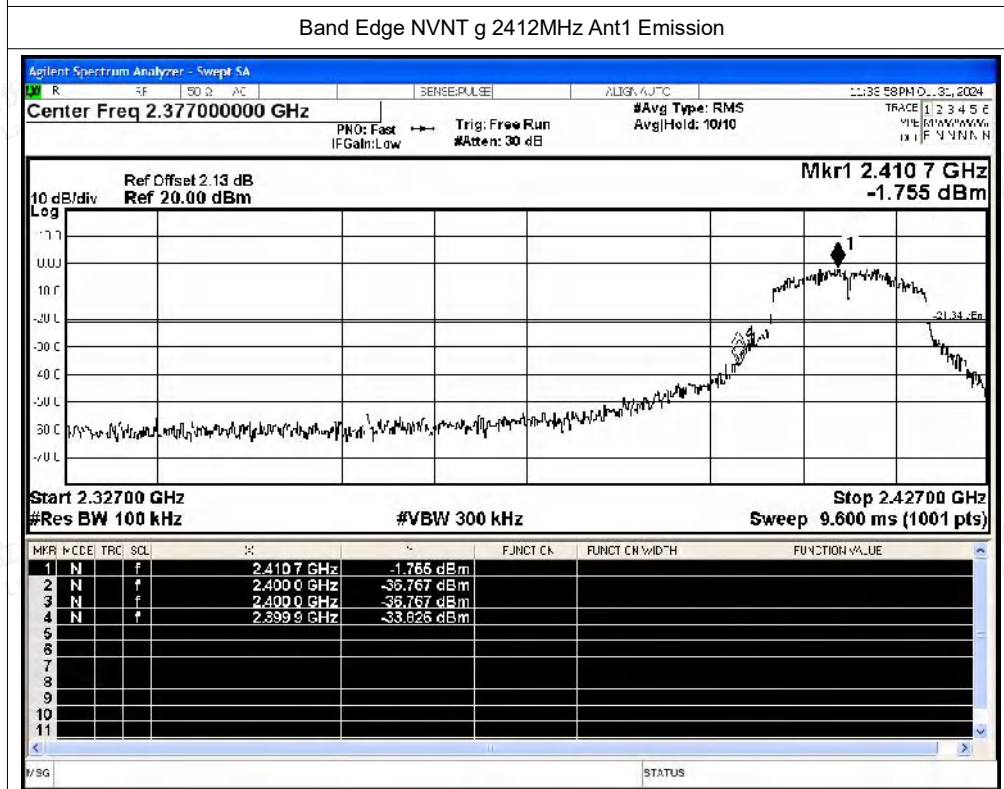
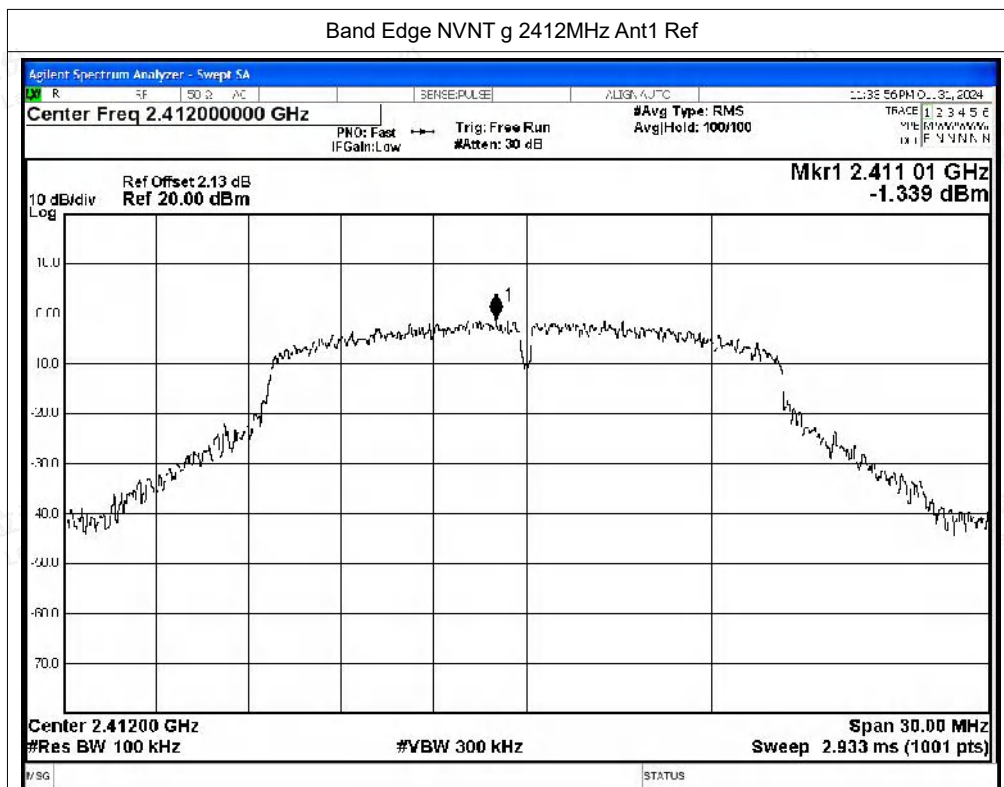


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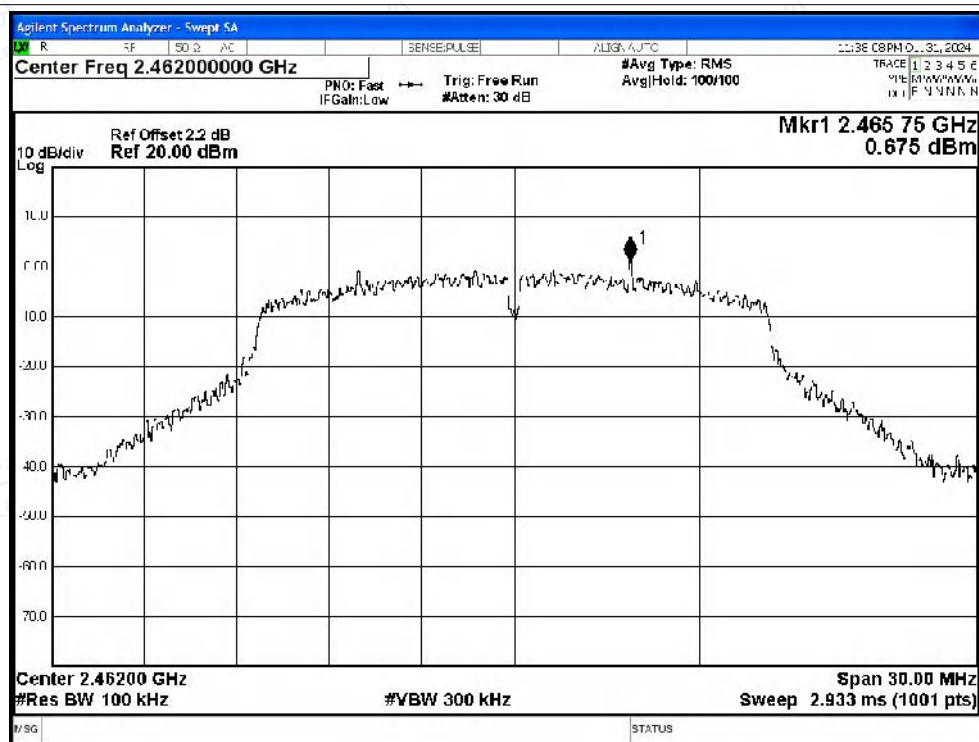
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Band Edge NVNT g 2462MHz Ant1 Ref

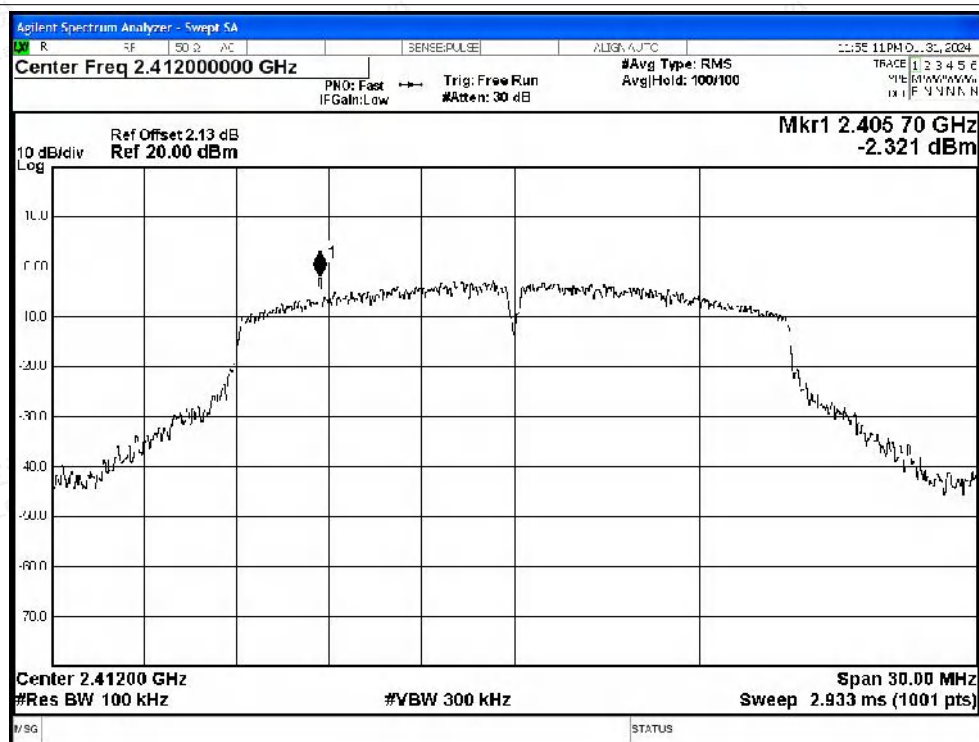


Band Edge NVNT g 2462MHz Ant1 Emission





Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



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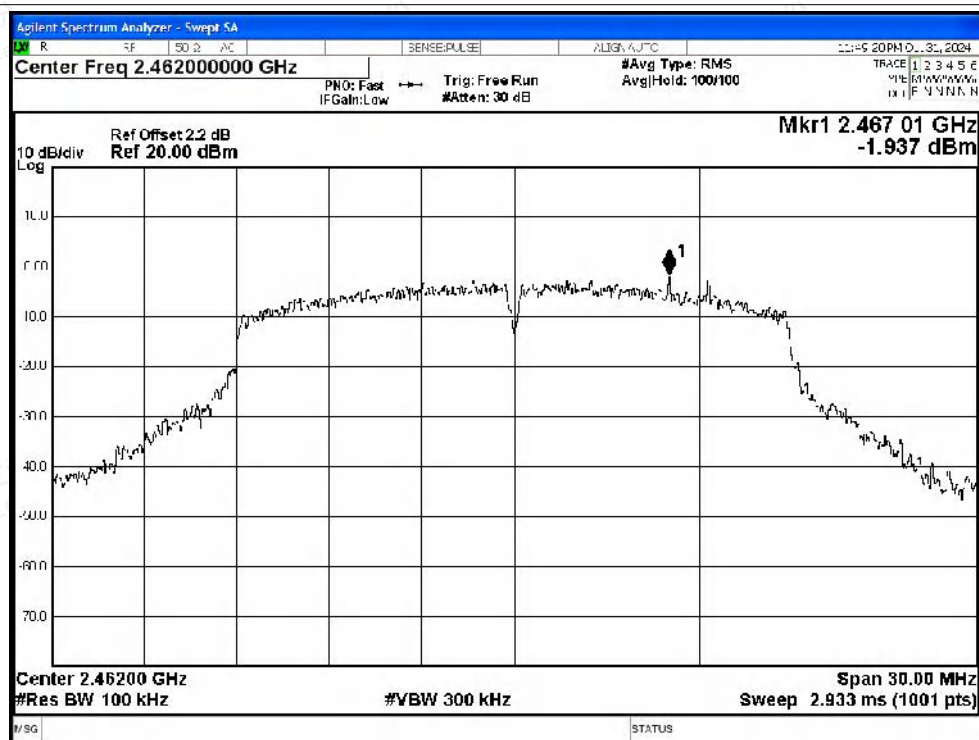
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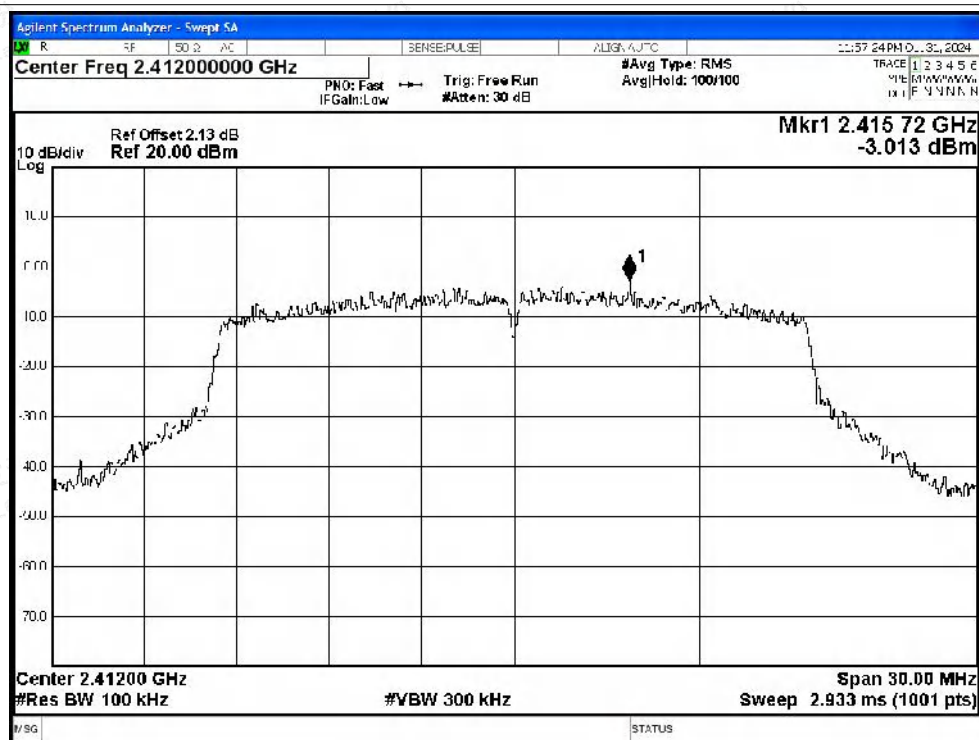
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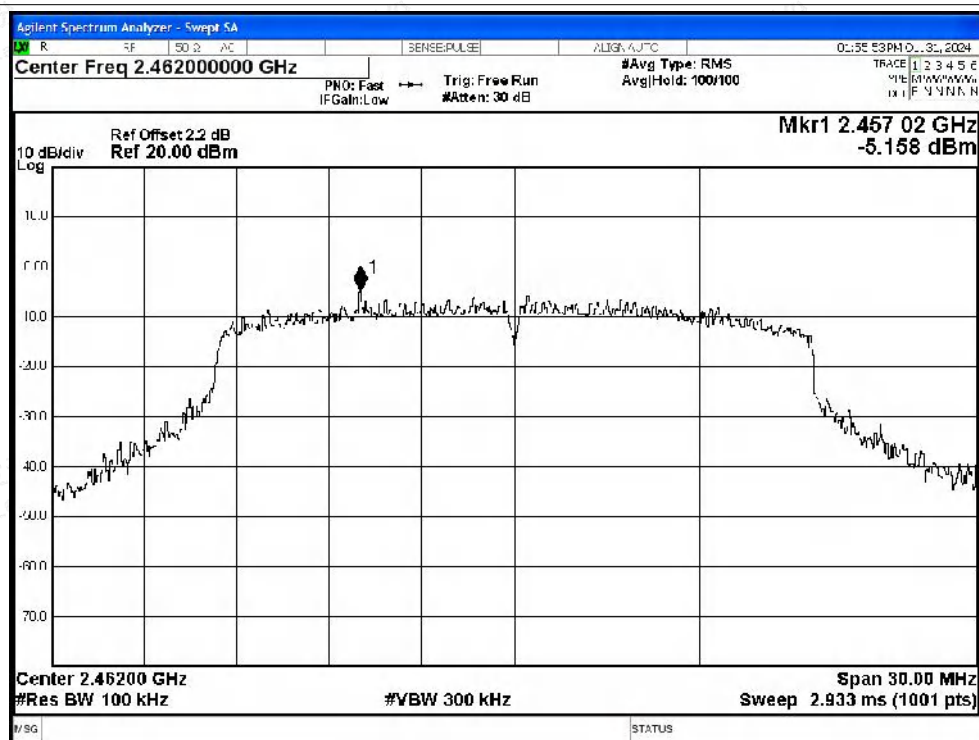
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