

Appendix Test Data

Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b SISO	2412	Ant0	99.43	0.02	0.12
NVNT	b SISO	2412	Ant1	99.43	0.02	0.12
NVNT	b SISO	2437	Ant0	99.45	0.02	0.12
NVNT	b SISO	2437	Ant1	99.45	0.02	0.12
NVNT	b SISO	2462	Ant0	99.45	0.02	0.12
NVNT	b SISO	2462	Ant1	99.45	0.02	0.12
NVNT	g SISO	2412	Ant0	96.4	0.16	0.72
NVNT	g SISO	2412	Ant1	96.4	0.16	0.72
NVNT	g SISO	2437	Ant0	96.27	0.17	0.72
NVNT	g SISO	2437	Ant1	96.27	0.17	0.72
NVNT	g SISO	2462	Ant0	96.4	0.16	0.72
NVNT	g SISO	2462	Ant1	96.4	0.16	0.72
NVNT	n20 SISO	2412	Ant0	96.15	0.17	0.77
NVNT	n20 SISO	2412	Ant1	96.01	0.18	0.77
NVNT	n20 MIMO	2412	Sum	96.16	0.17	0.77
NVNT	n20 SISO	2437	Ant0	96.01	0.18	0.77
NVNT	n20 SISO	2437	Ant1	96.01	0.18	0.77
NVNT	n20 MIMO	2437	Sum	96.02	0.18	0.77
NVNT	n20 SISO	2462	Ant0	96.16	0.17	0.77
NVNT	n20 SISO	2462	Ant1	96.16	0.17	0.77
NVNT	n20 MIMO	2462	Sum	96.15	0.17	0.77
NVNT	n40 SISO	2422	Ant0	92.31	0.35	1.54
NVNT	n40 SISO	2422	Ant1	92.57	0.34	1.54
NVNT	n40 MIMO	2422	Sum	92.31	0.35	1.54
NVNT	n40 SISO	2437	Ant0	92.57	0.34	1.54
NVNT	n40 SISO	2437	Ant1	92.57	0.34	1.54
NVNT	n40 MIMO	2437	Sum	92.57	0.34	1.54
NVNT	n40 SISO	2452	Ant0	92.57	0.34	1.54
NVNT	n40 SISO	2452	Ant1	92.59	0.33	1.54
NVNT	n40 MIMO	2452	Sum	92.31	0.35	1.54

Test Graphs

Duty Cycle NVNT b 2412MHz Ant0 SISO

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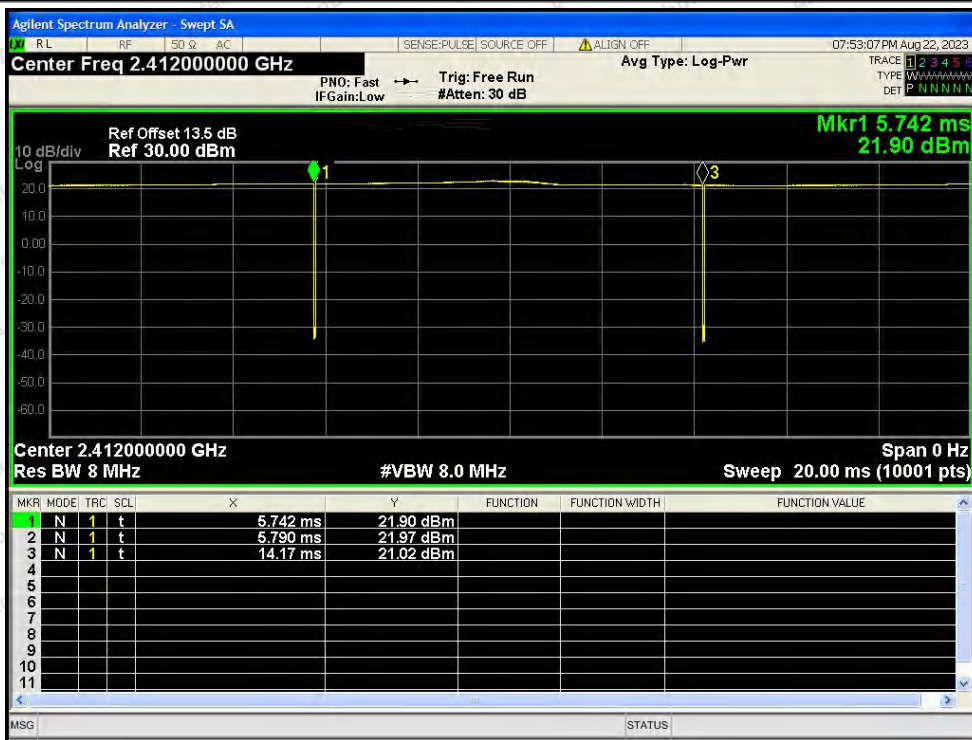


Hotline

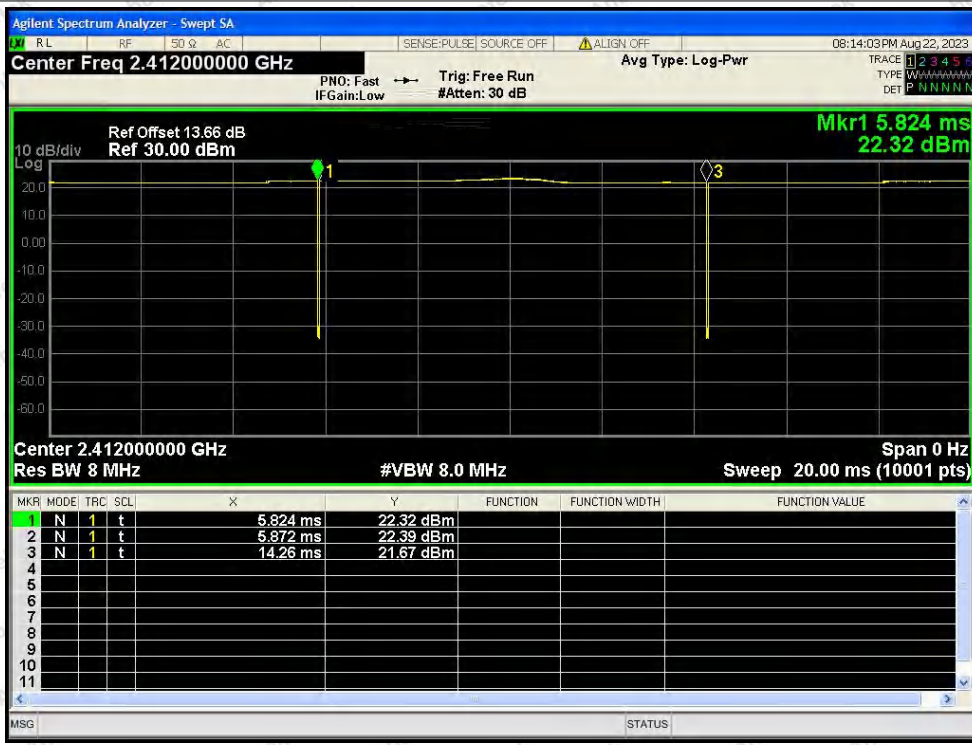
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Duty Cycle NVNT b 2412MHz Ant1 SISO



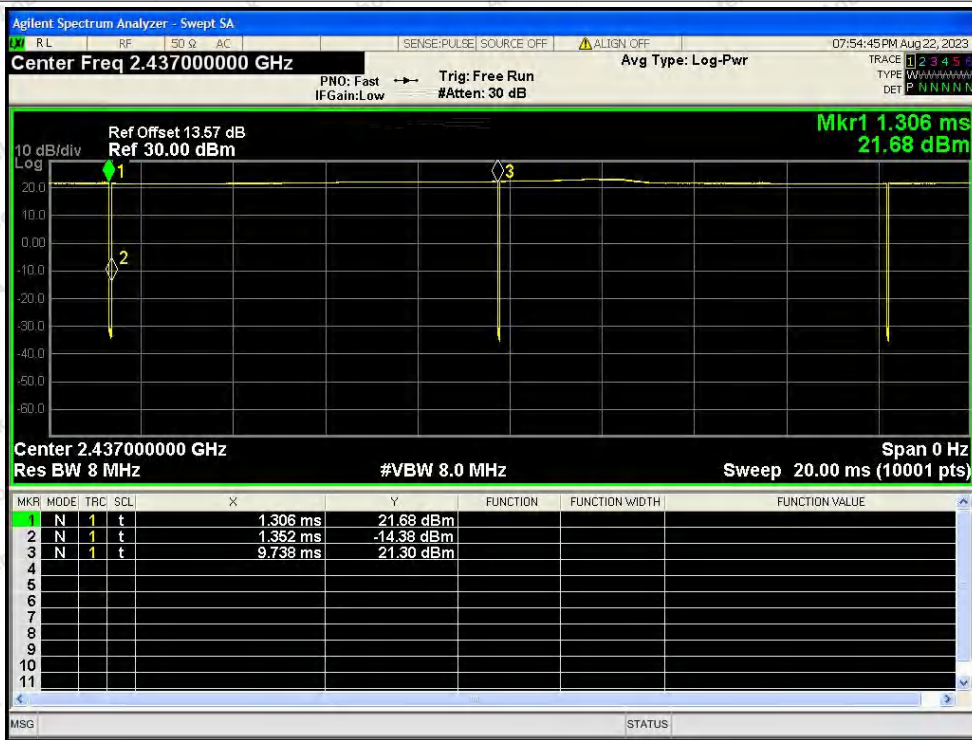
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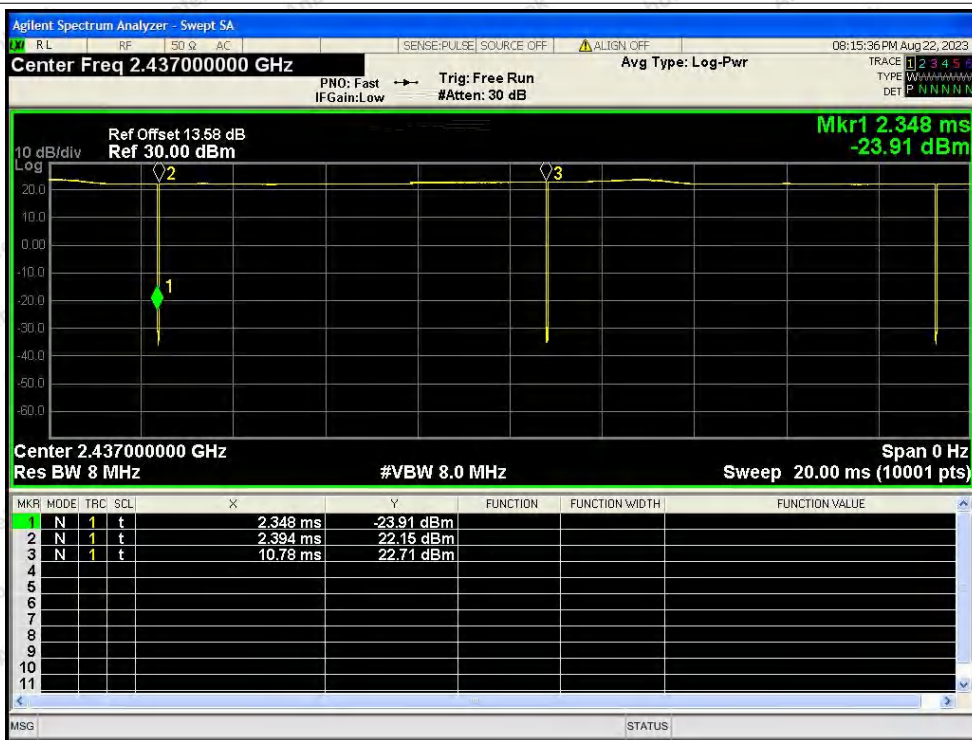
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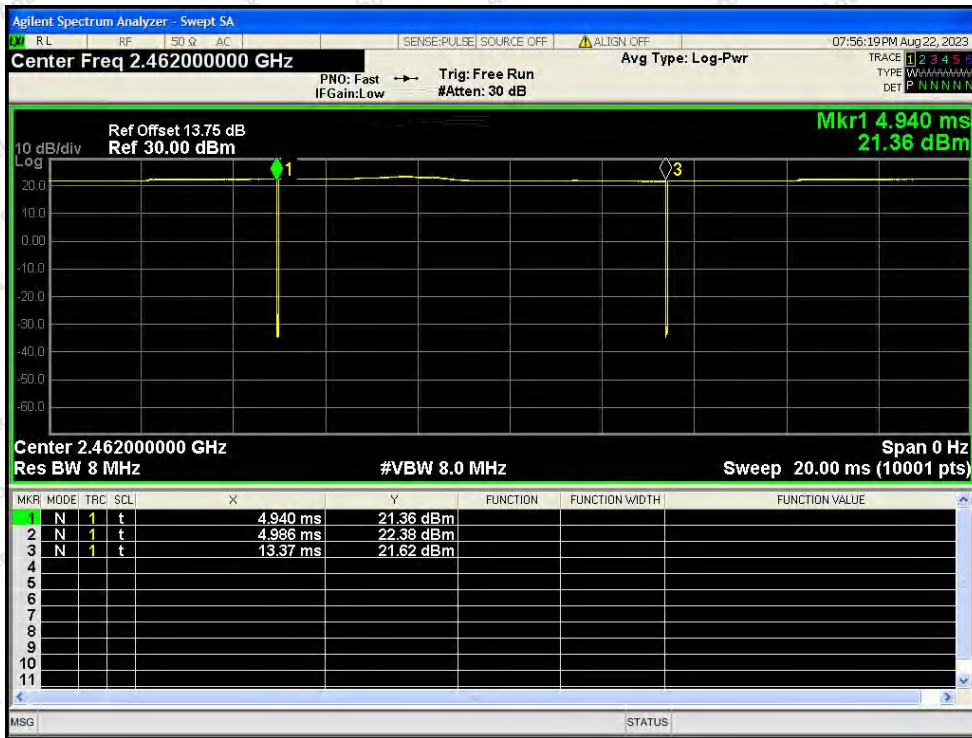
Duty Cycle NVNT b 2437MHz Ant0 SISO



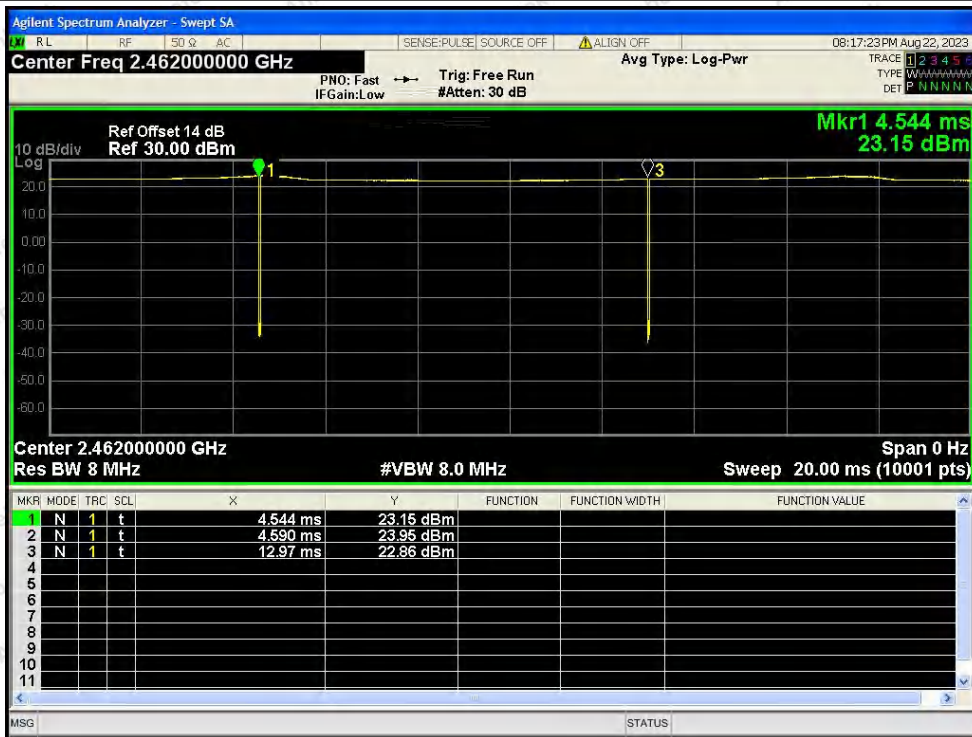
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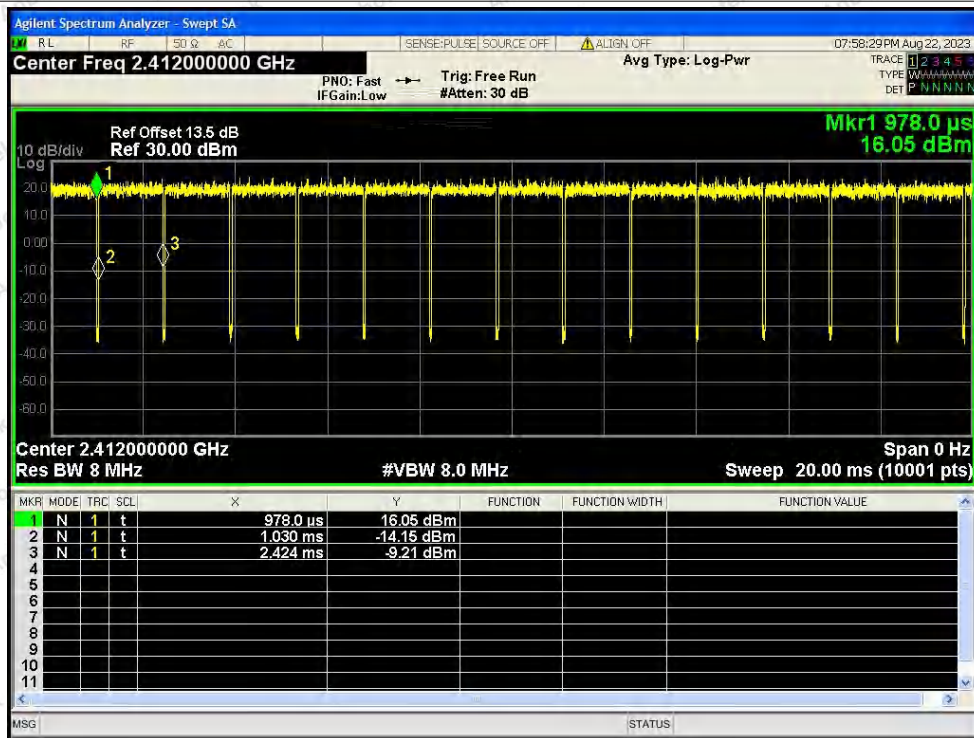
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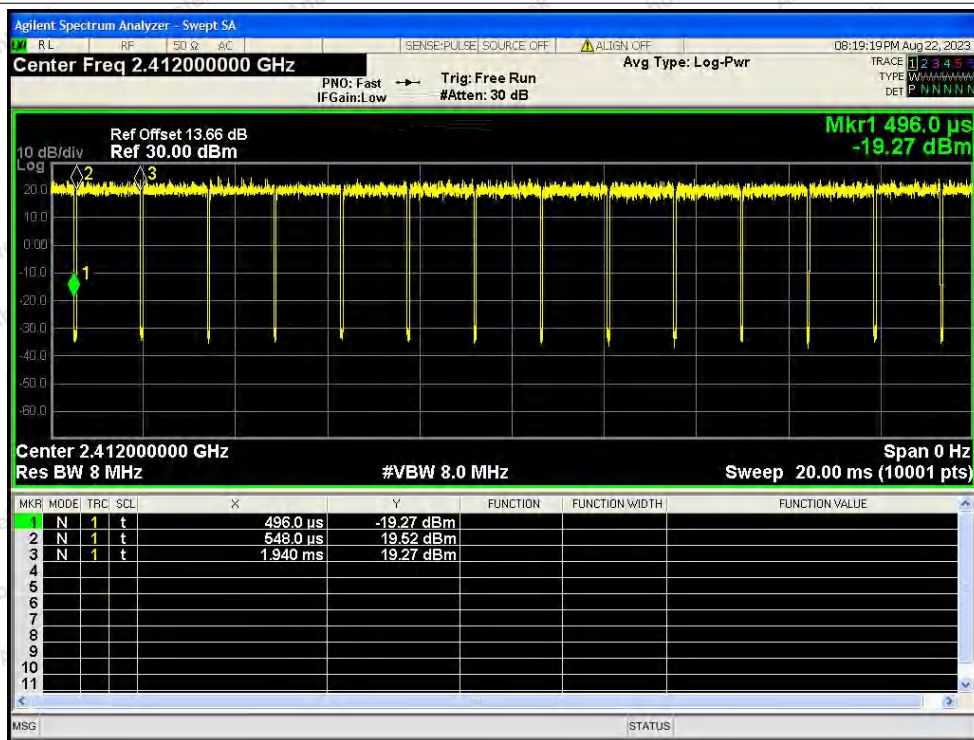
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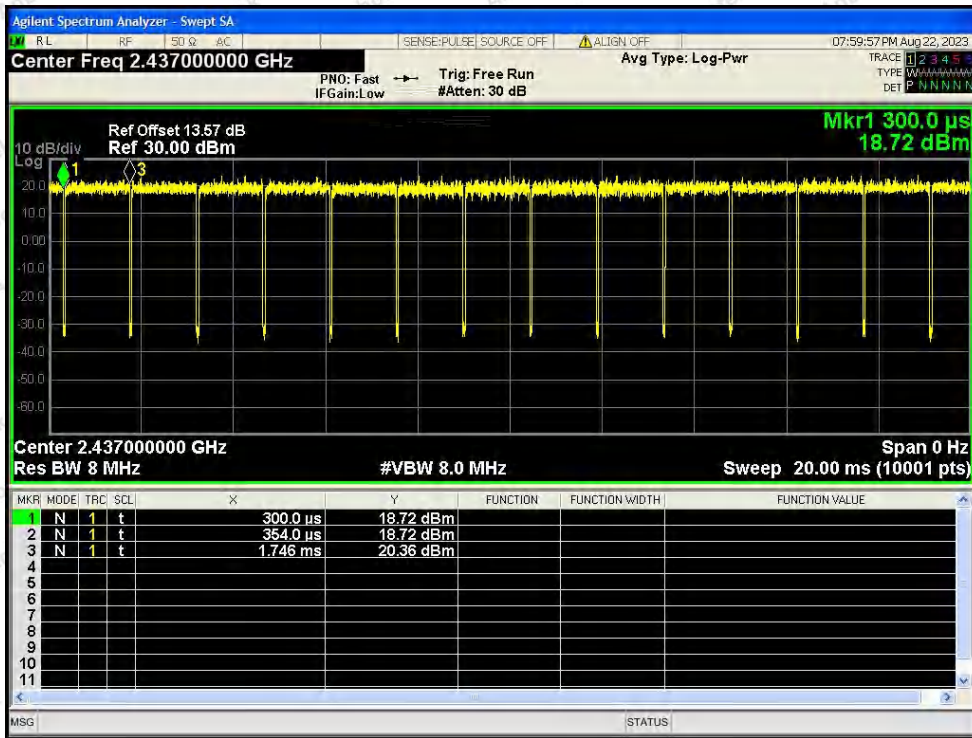
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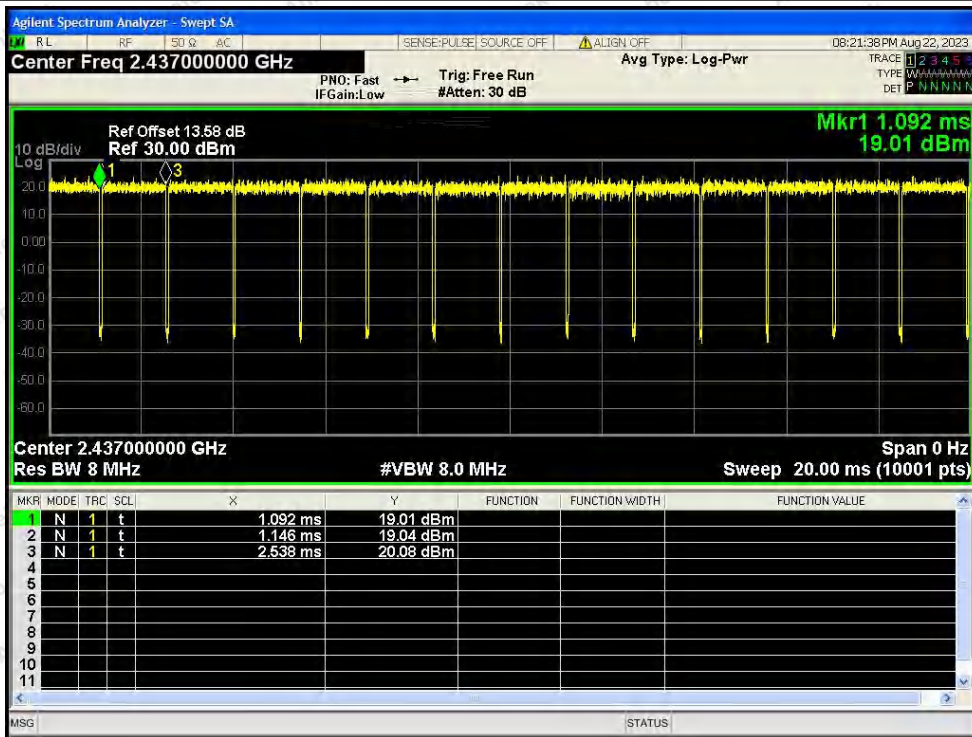
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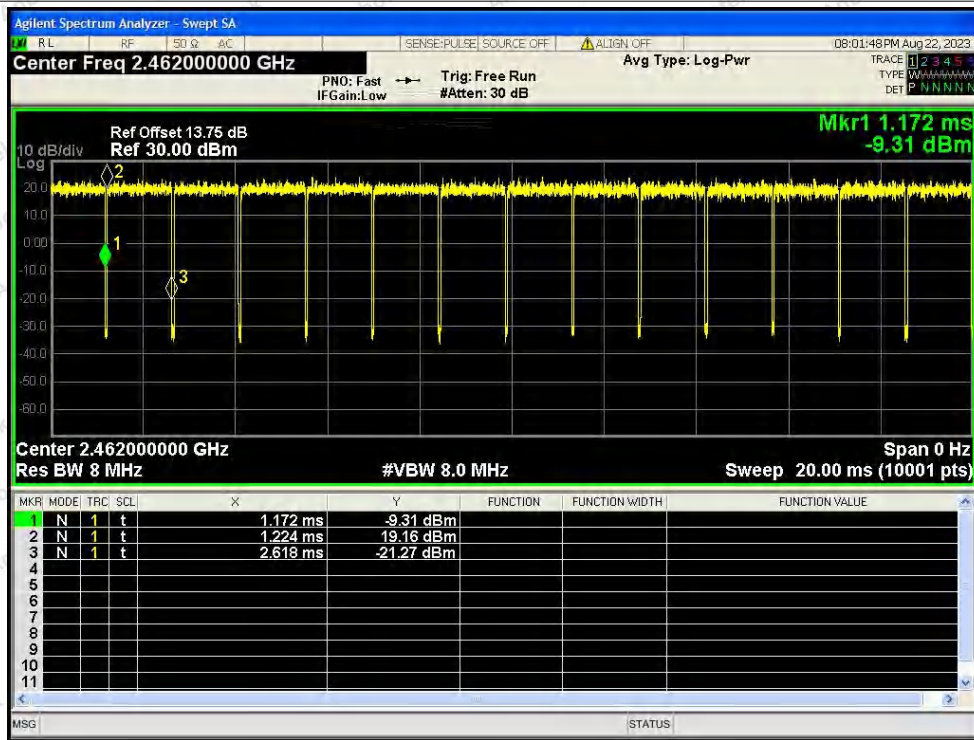
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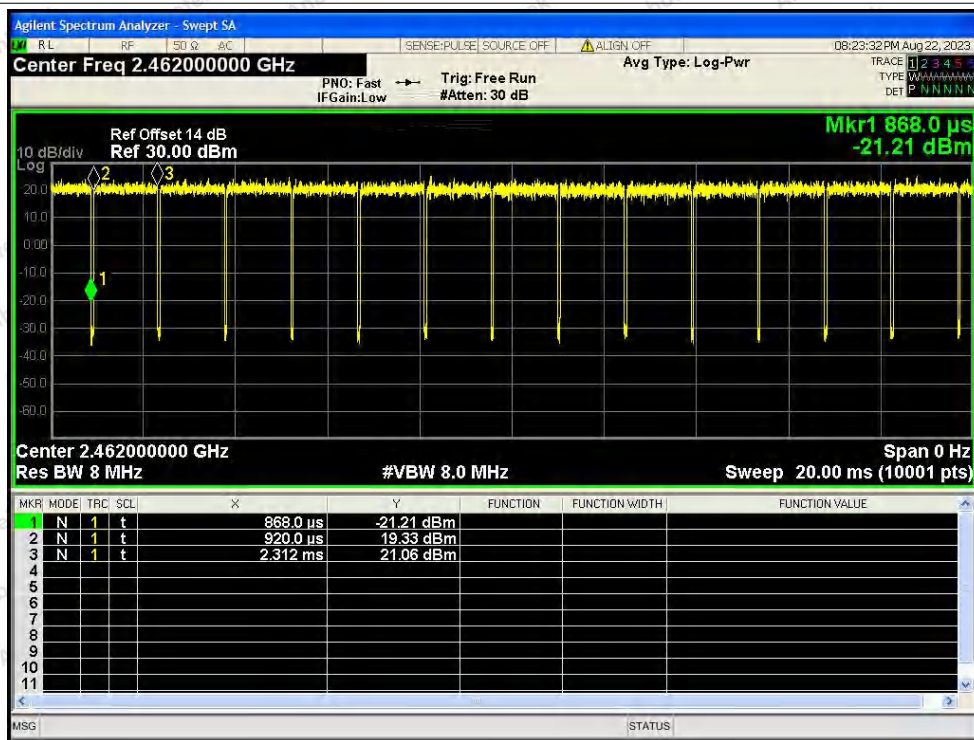
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Duty Cycle NVNT g 2462MHz Ant0 SISO



Duty Cycle NVNT g 2462MHz Ant1 SISO



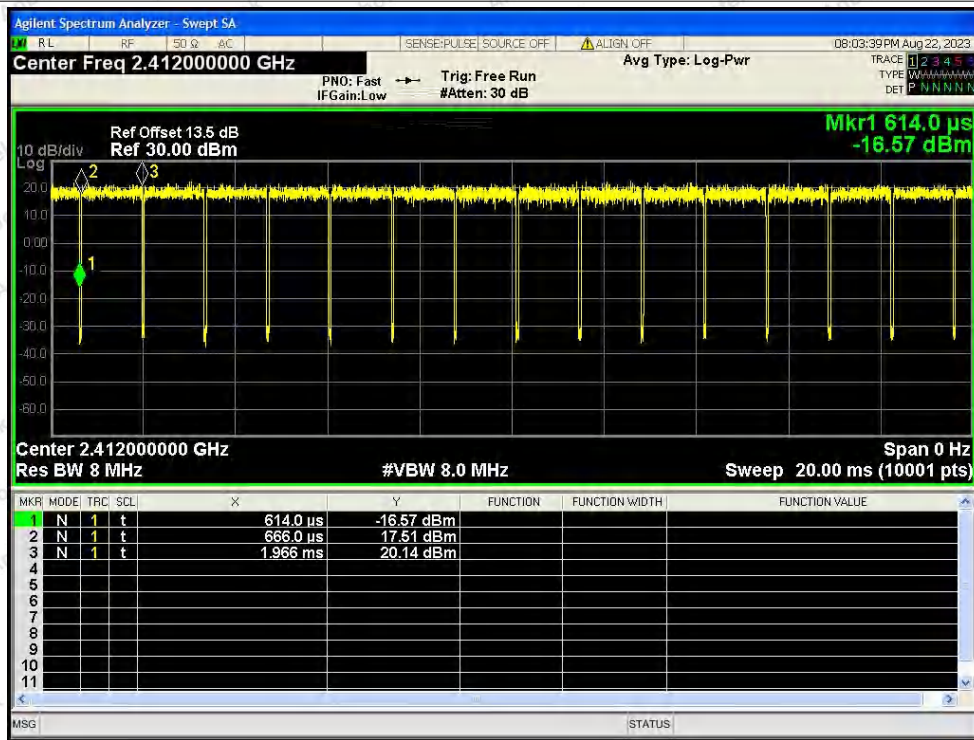
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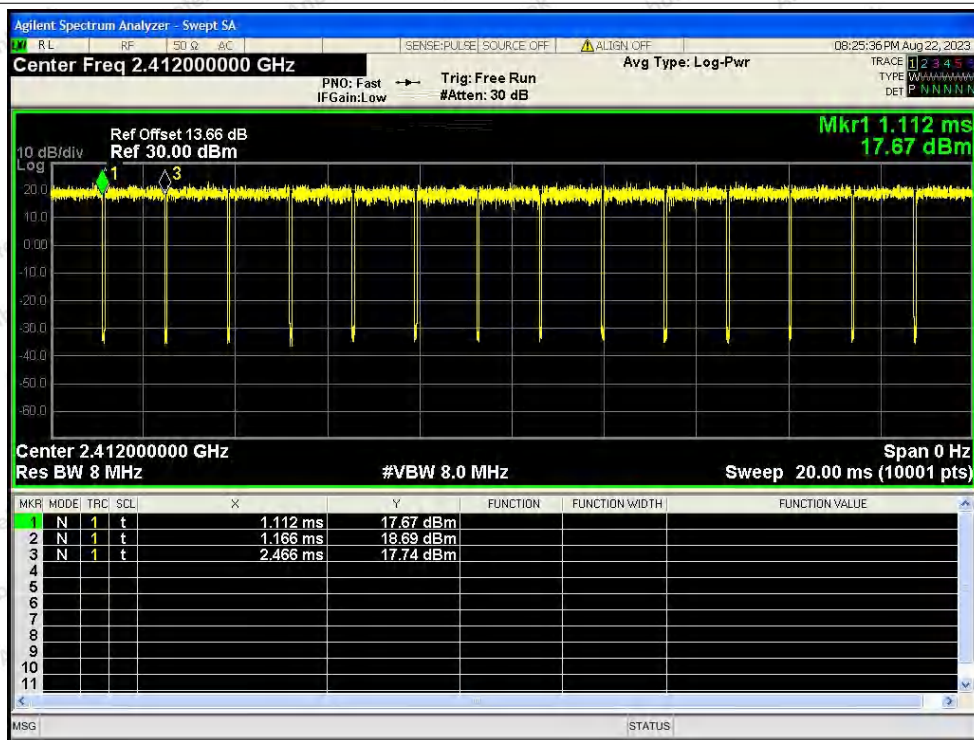
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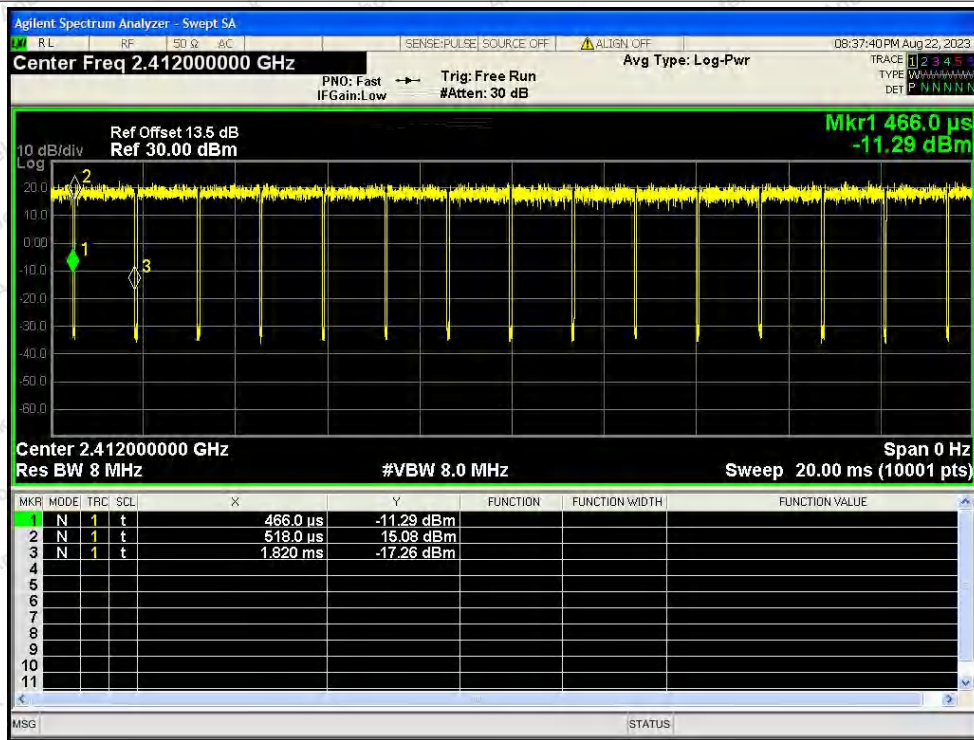
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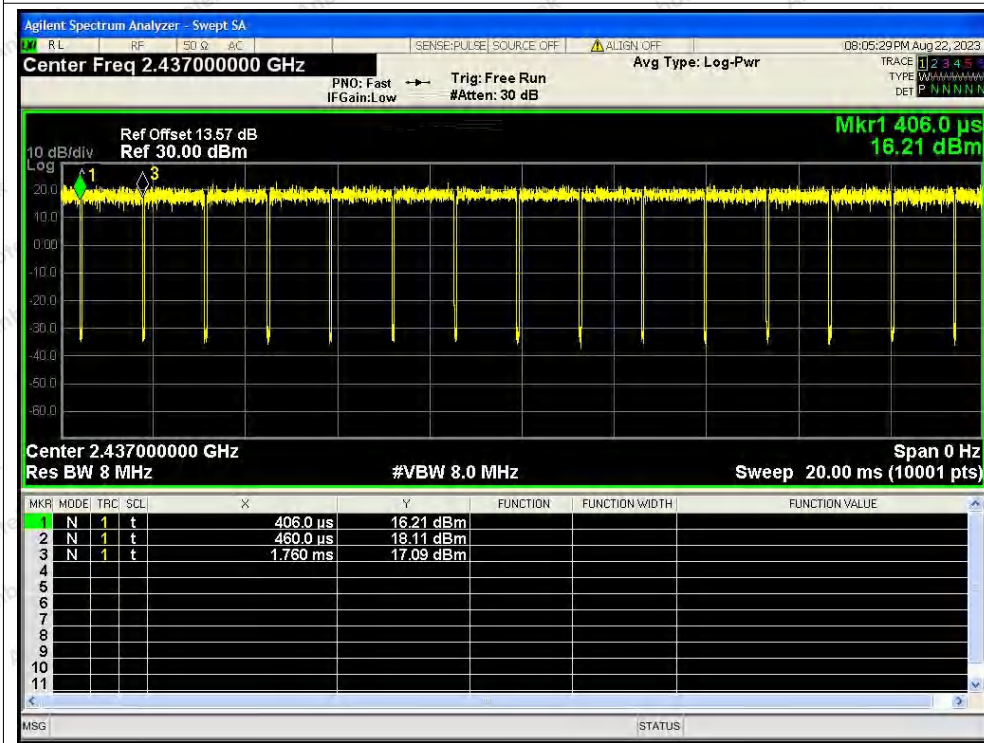
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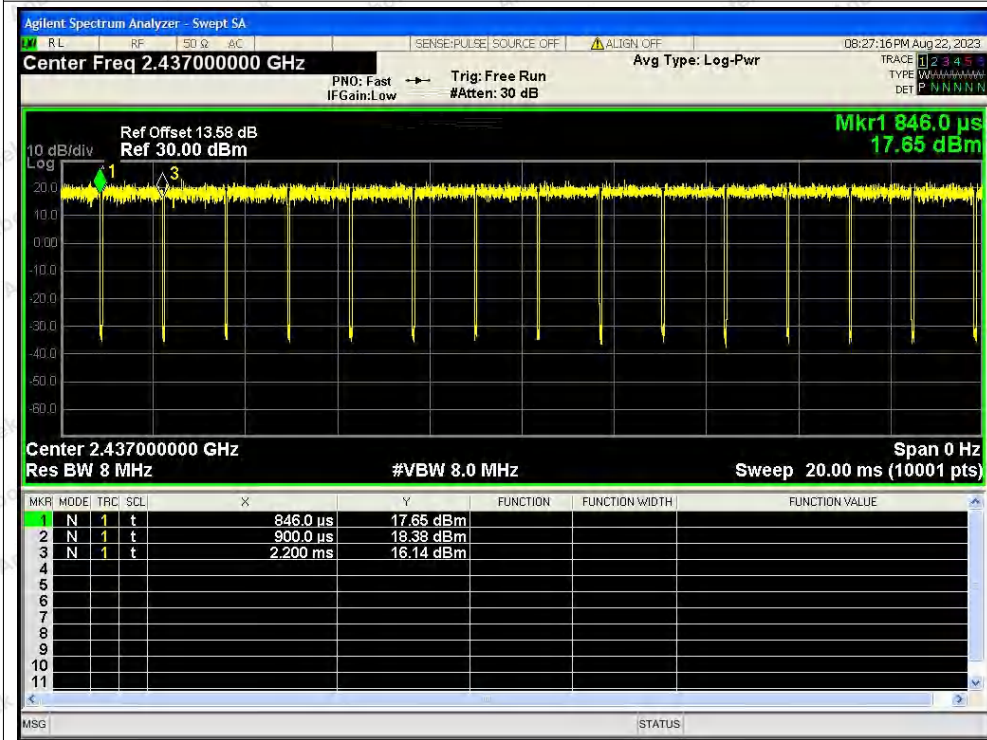
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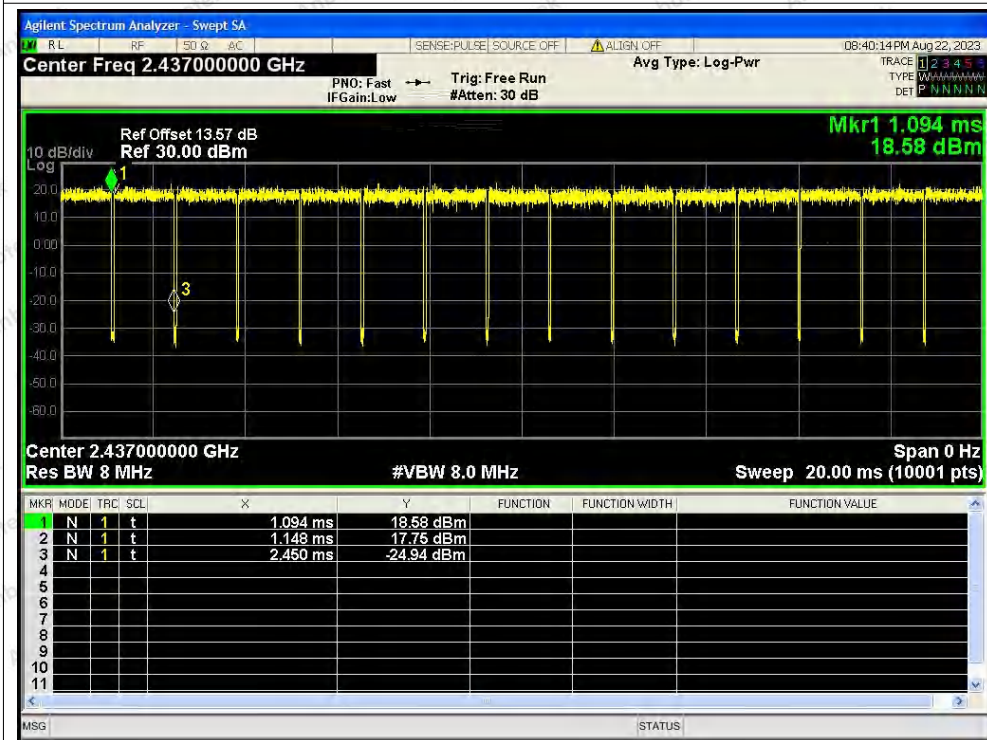
Duty Cycle NVNT n20 2437MHz Ant0 SISO



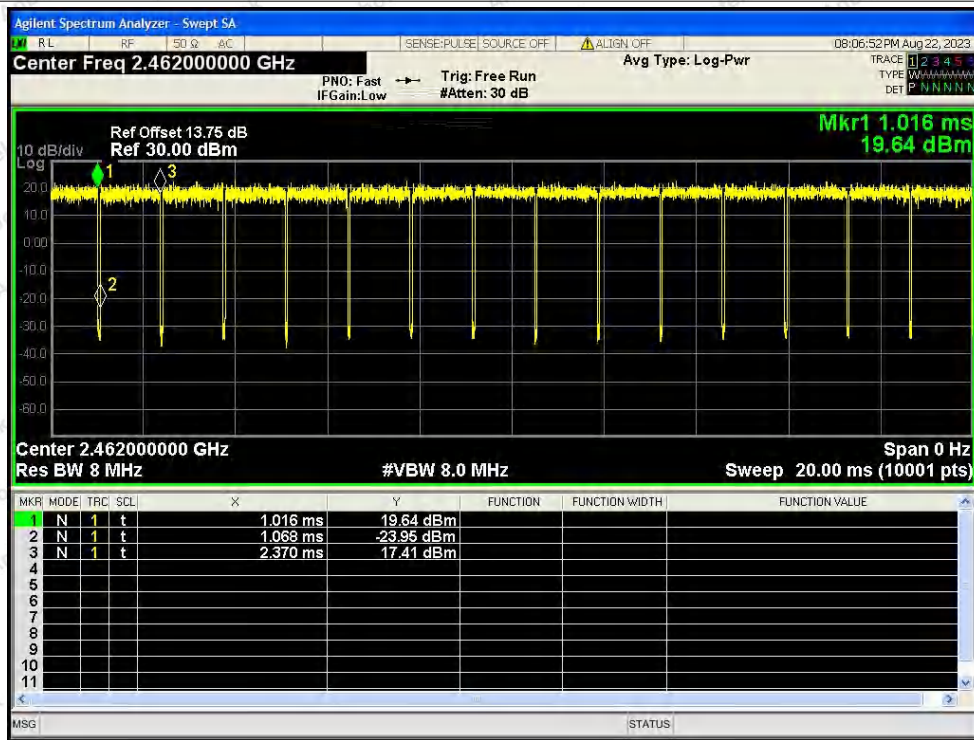
Duty Cycle NVNT n20 2437MHz Ant1 SISO



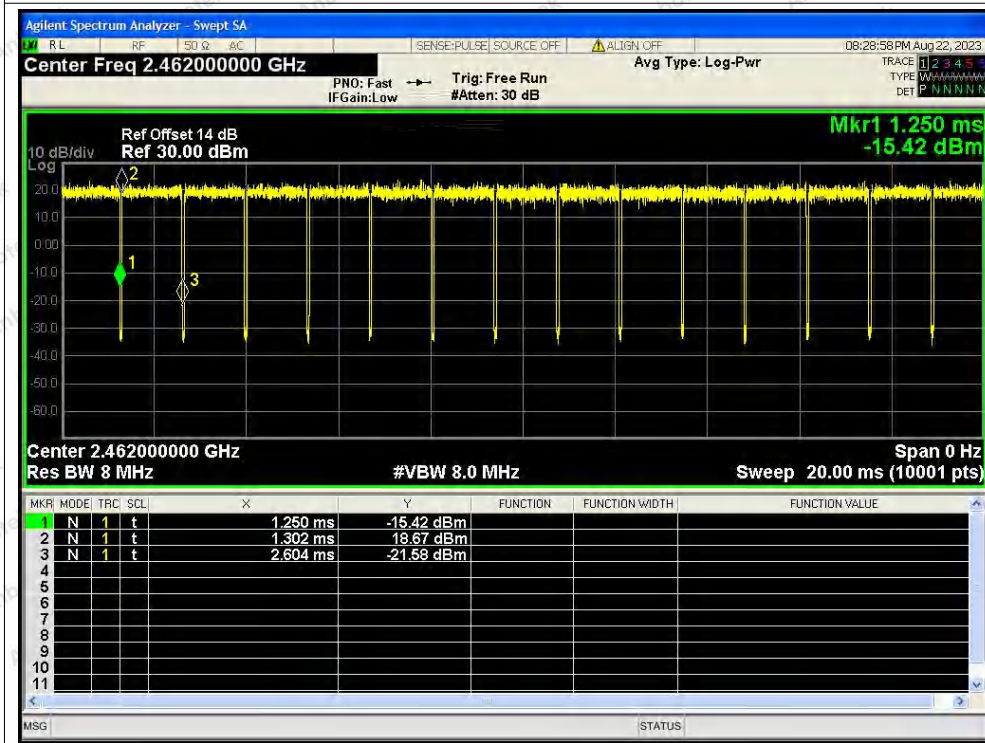
Duty Cycle NVNT n20 2437MHz Sum MIMO



Duty Cycle NVNT n20 2462MHz Ant0 SISO



Duty Cycle NVNT n20 2462MHz Ant1 SISO



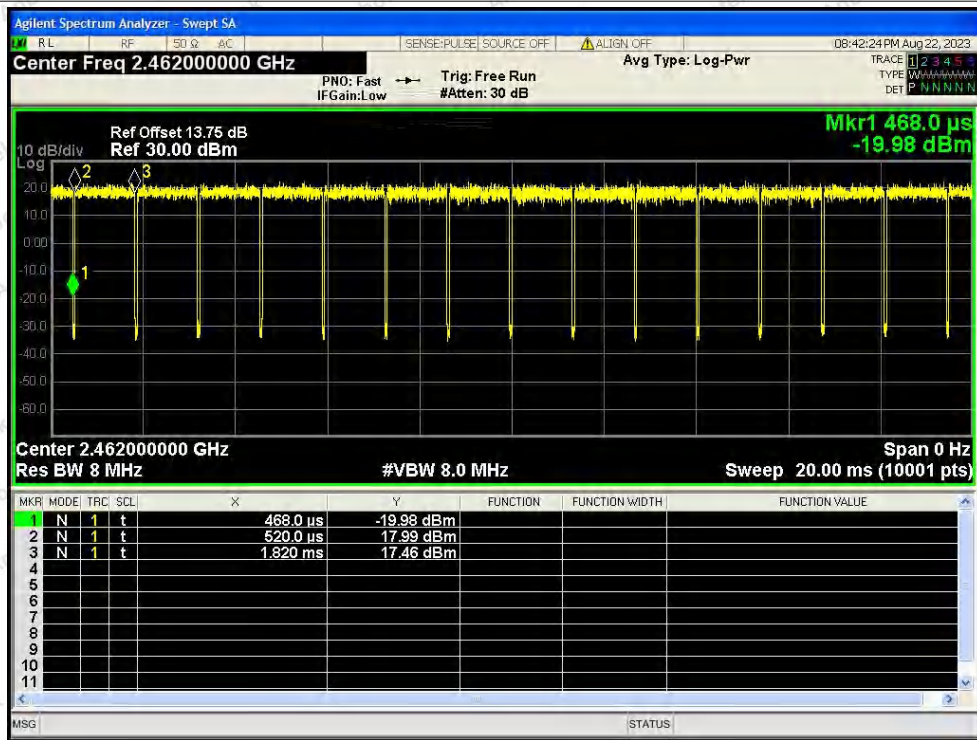
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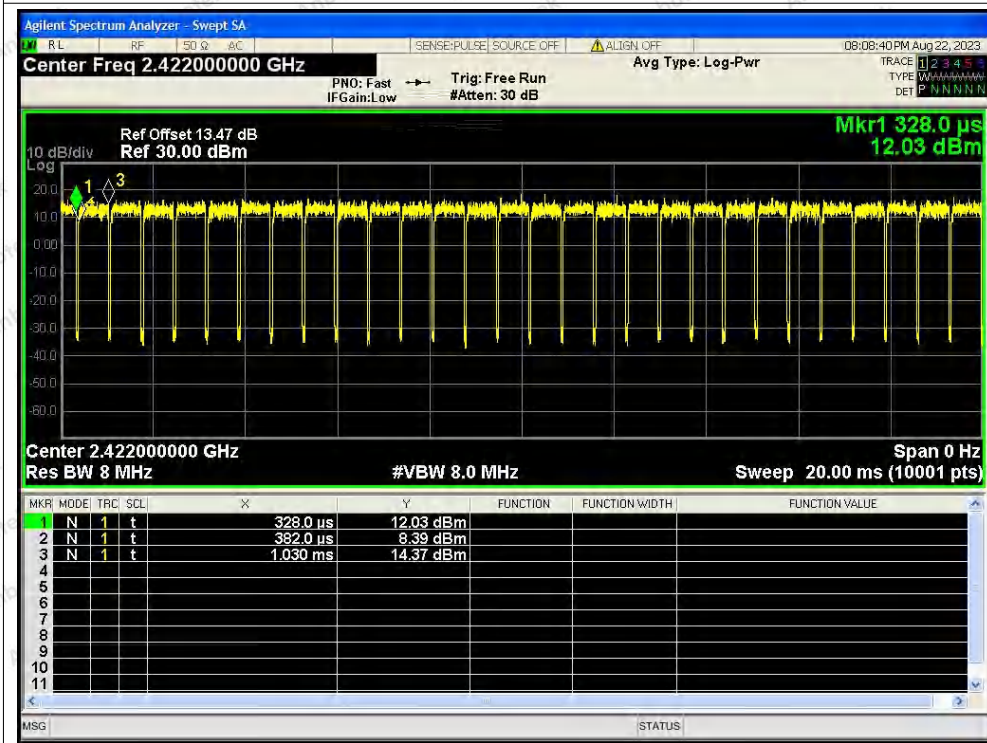
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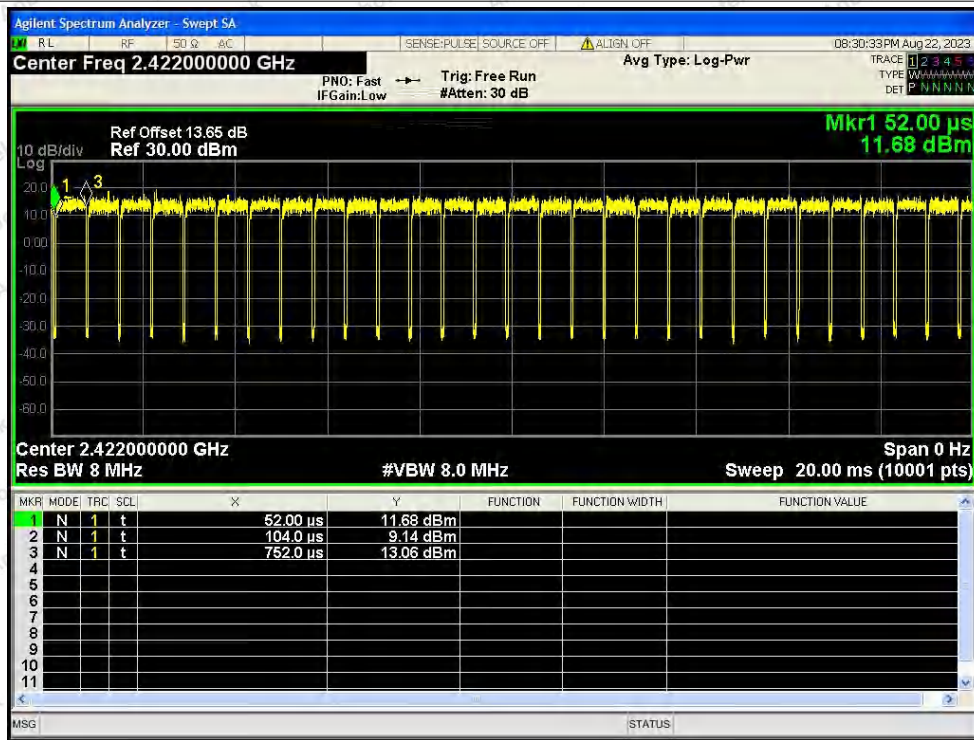
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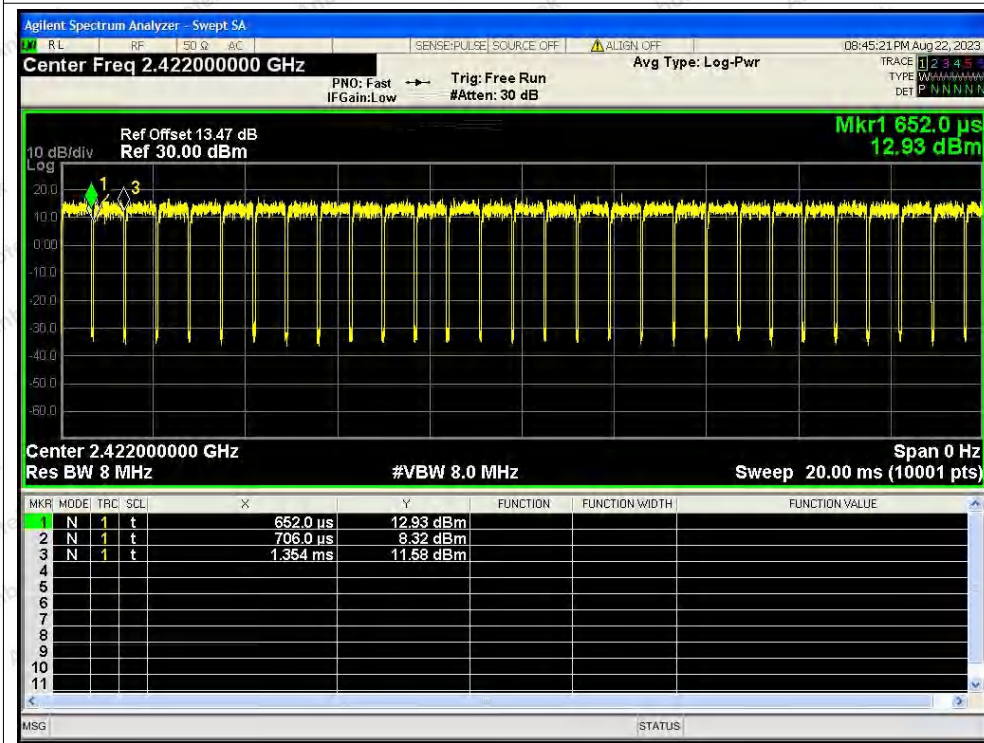
Duty Cycle NVNT n40 2422MHz Ant0 SISO



Duty Cycle NVNT n40 2422MHz Ant1 SISO



Duty Cycle NVNT n40 2422MHz Sum MIMO



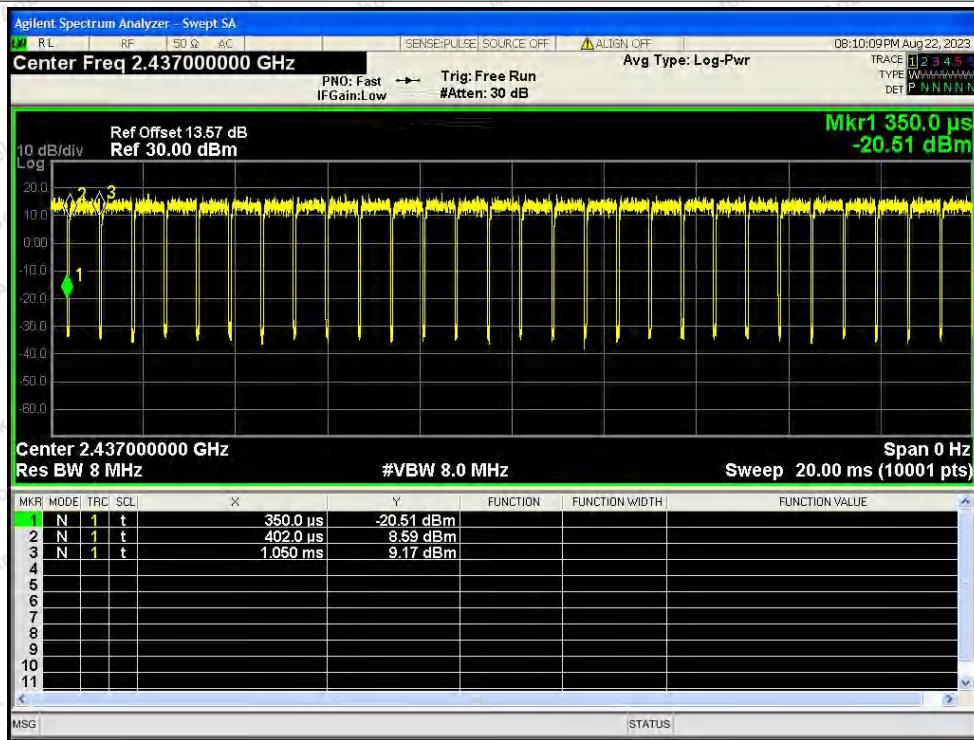
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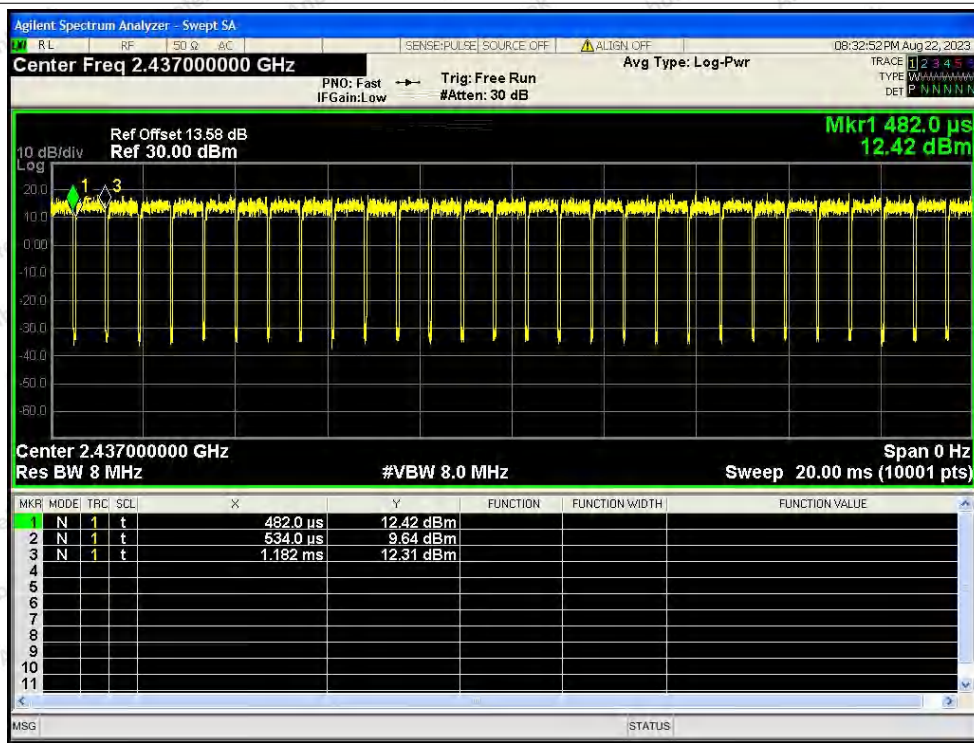
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Duty Cycle NVNT n40 2437MHz Ant0 SISO



Duty Cycle NVNT n40 2437MHz Ant1 SISO



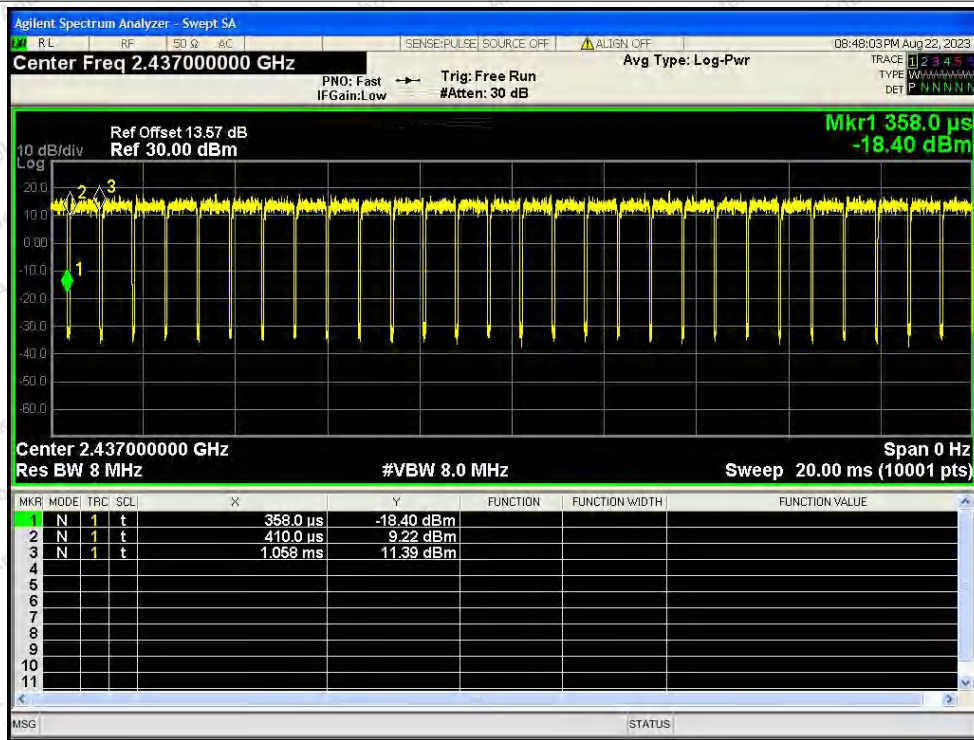
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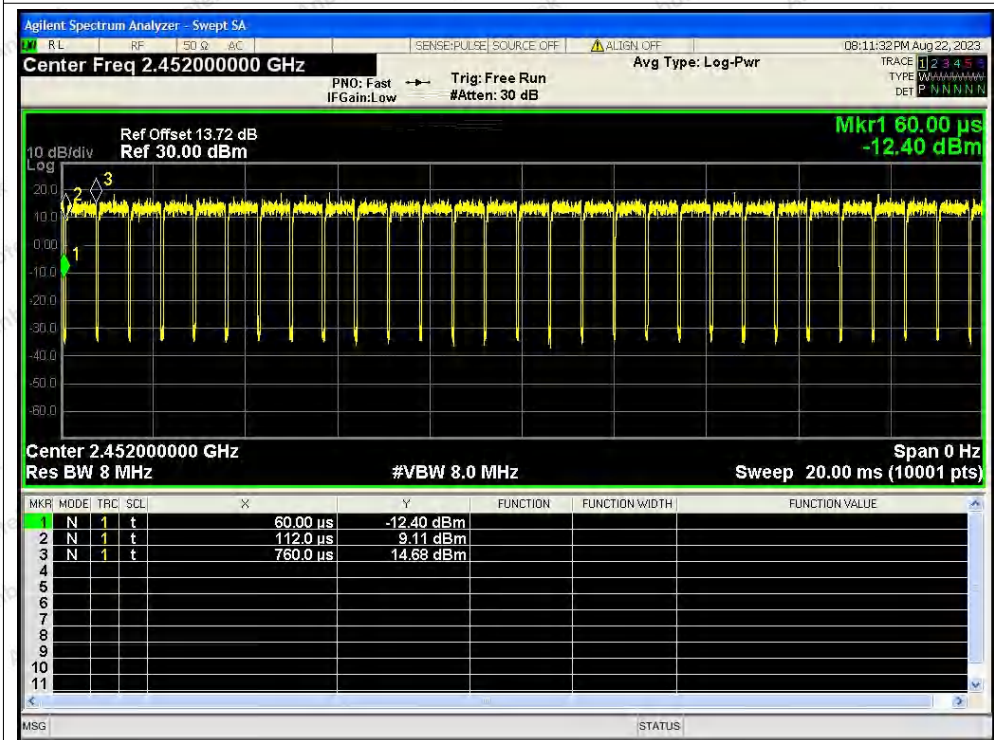
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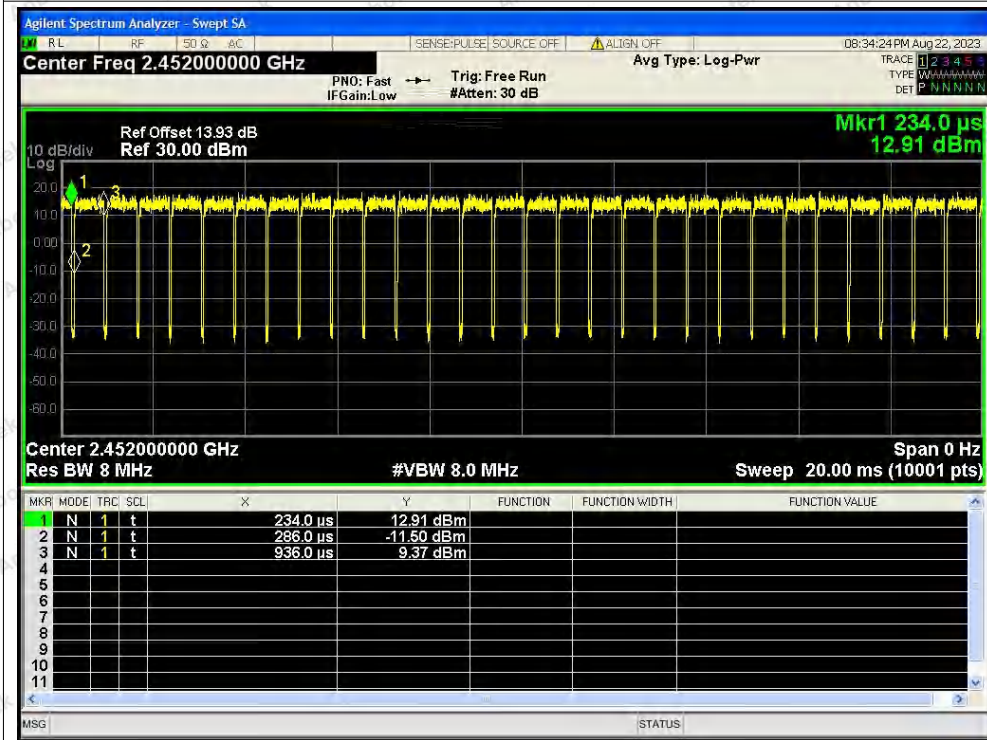
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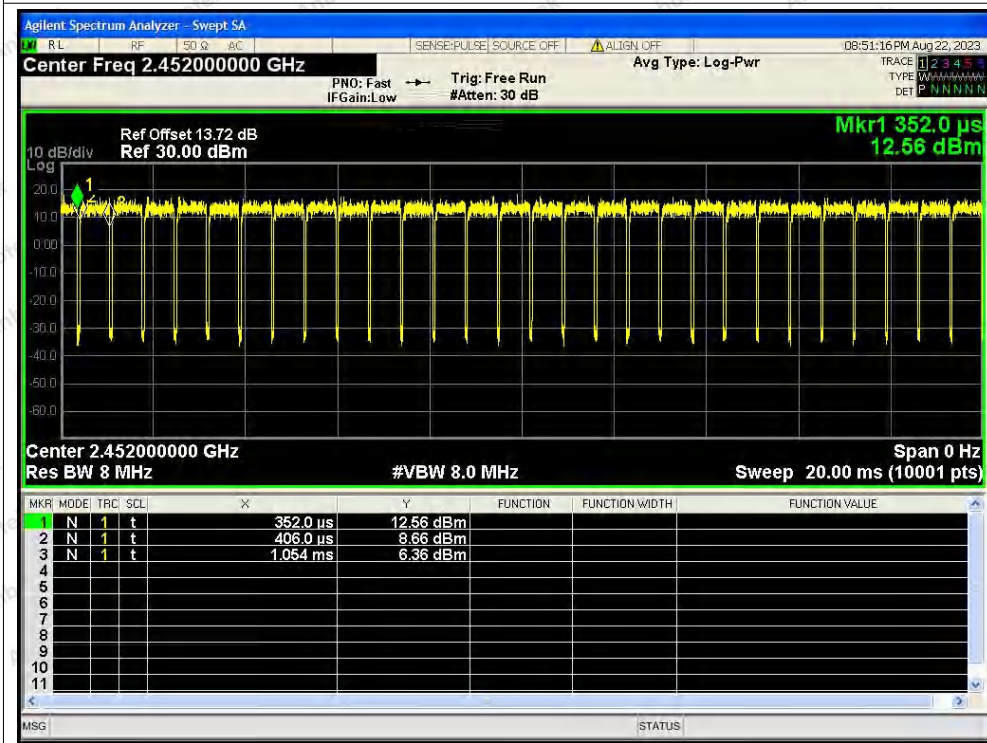
Duty Cycle NVNT n40 2452MHz Ant0 SISO



Duty Cycle NVNT n40 2452MHz Ant1 SISO



Duty Cycle NVNT n40 2452MHz Sum MIMO



Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	b SISO	2412	Ant0	19.43	0	19.43	0.0877	30	Pass
NVNT	b SISO	2412	Ant1	19.82	0	19.82	0.09594	30	Pass
NVNT	b SISO	2437	Ant0	19.85	0	19.85	0.09661	30	Pass
NVNT	b SISO	2437	Ant1	19.9	0	19.9	0.09772	30	Pass
NVNT	b SISO	2462	Ant0	19.67	0	19.67	0.09268	30	Pass
NVNT	b SISO	2462	Ant1	20.08	0	20.08	0.10186	30	Pass
NVNT	g SISO	2412	Ant0	22.46	0	22.46	0.1762	30	Pass
NVNT	g SISO	2412	Ant1	22.69	0	22.69	0.18578	30	Pass
NVNT	g SISO	2437	Ant0	22.33	0	22.33	0.171	30	Pass
NVNT	g SISO	2437	Ant1	22.66	0	22.66	0.1845	30	Pass
NVNT	g SISO	2462	Ant0	22.4	0	22.4	0.17378	30	Pass
NVNT	g SISO	2462	Ant1	22.89	0	22.89	0.19454	30	Pass
NVNT	n20 SISO	2412	Ant0	21.35	0	21.35	0.13646	30	Pass
NVNT	n20 SISO	2412	Ant1	21.58	0	21.58	0.14388	30	Pass
NVNT	n20 MIMO	2412	Ant0	21.46	0	21.46	0.13996	30	Pass
NVNT	n20 MIMO	2412	Ant1	22.1	0	22.1	0.16218	30	Pass
NVNT	n20 MIMO	2412	Sum	NaN	NaN	24.8	0.30214	28.04	Pass
NVNT	n20 SISO	2437	Ant0	20.75	0	20.75	0.11885	30	Pass
NVNT	n20	2437	Ant1	21.42	0	21.42	0.13868	30	Pass

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	SISO								
NVNT	n20 MIMO	2437	Ant0	21.33	0	21.33	0.13583	30	Pass
NVNT	n20 MIMO	2437	Ant1	21.81	0	21.81	0.15171	30	Pass
NVNT	n20 MIMO	2437	Sum	NaN	NaN	24.59	0.28754	28.04	Pass
NVNT	n20 SISO	2462	Ant0	21.53	0	21.53	0.14223	30	Pass
NVNT	n20 SISO	2462	Ant1	21.71	0	21.71	0.14825	30	Pass
NVNT	n20 MIMO	2462	Ant0	21.82	0	21.82	0.15205	30	Pass
NVNT	n20 MIMO	2462	Ant1	22.57	0	22.57	0.18072	30	Pass
NVNT	n20 MIMO	2462	Sum	NaN	NaN	25.22	0.33277	28.04	Pass
NVNT	n40 SISO	2422	Ant0	19.51	0	19.51	0.08933	30	Pass
NVNT	n40 SISO	2422	Ant1	19.72	0	19.72	0.09376	30	Pass
NVNT	n40 MIMO	2422	Ant0	19.47	0	19.47	0.08851	30	Pass
NVNT	n40 MIMO	2422	Ant1	20.1	0	20.1	0.10233	30	Pass
NVNT	n40 MIMO	2422	Sum	NaN	NaN	22.81	0.19084	28.04	Pass
NVNT	n40 SISO	2437	Ant0	19.68	0	19.68	0.0929	30	Pass
NVNT	n40 SISO	2437	Ant1	19.76	0	19.76	0.09462	30	Pass
NVNT	n40 MIMO	2437	Ant0	19.63	0	19.63	0.09183	30	Pass
NVNT	n40 MIMO	2437	Ant1	20.1	0	20.1	0.10233	30	Pass
NVNT	n40 MIMO	2437	Sum	NaN	NaN	22.88	0.19416	28.04	Pass
NVNT	n40 SISO	2452	Ant0	19.9	0	19.9	0.09772	30	Pass
NVNT	n40 SISO	2452	Ant1	20.13	0	20.13	0.10304	30	Pass
NVNT	n40	2452	Ant0	19.54	0	19.54	0.08995	30	Pass

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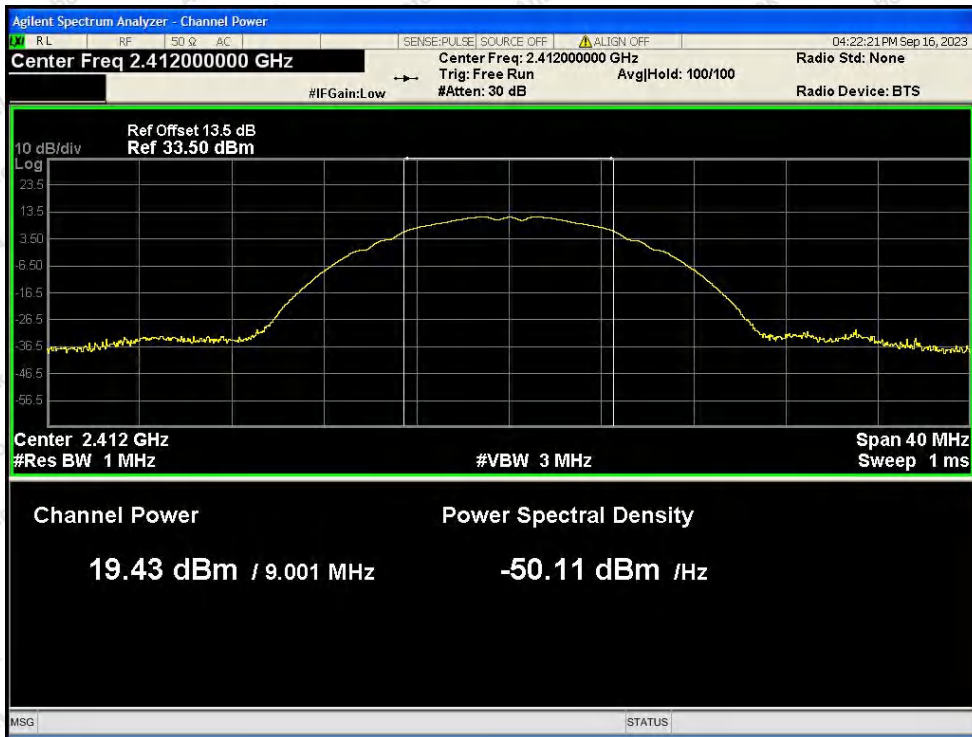
	MIMO								
NVNT	n40 MIMO	2452	Ant1	20.6	0	20.6	0.11482	30	Pass
NVNT	n40 MIMO	2452	Sum	NaN	NaN	23.11	0.20477	28.04	Pass

Note: Directional gain = $10\log[(10^{G0/20} + 10^{G1/20})^2/2] = 7.96\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (7.96 - 6) = 28.04\text{dBm}$.

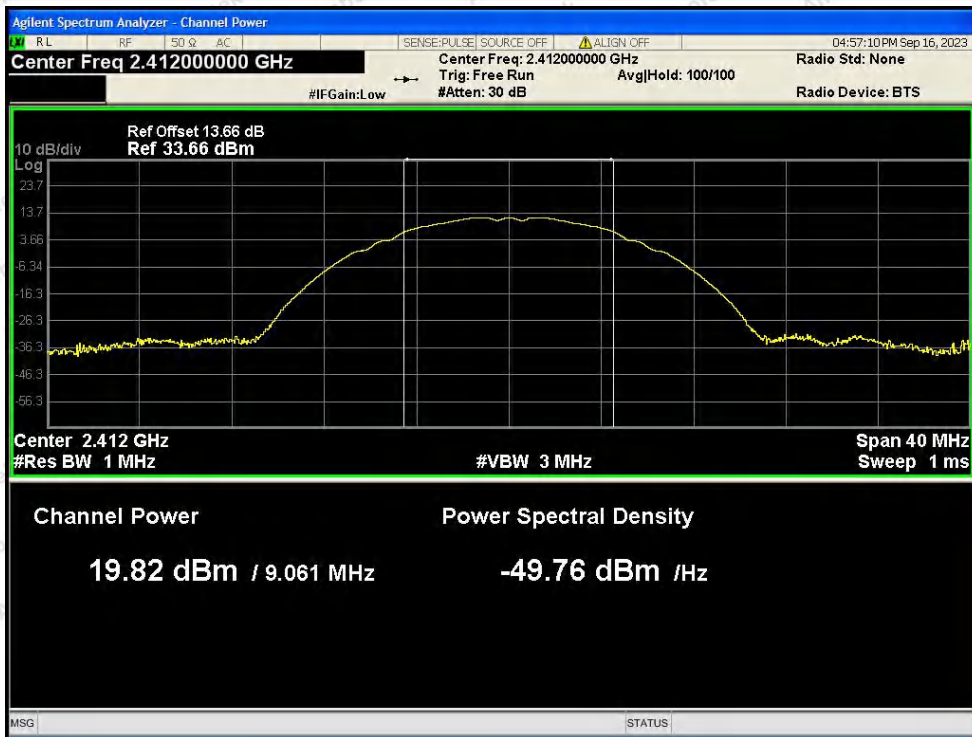


Test Graphs

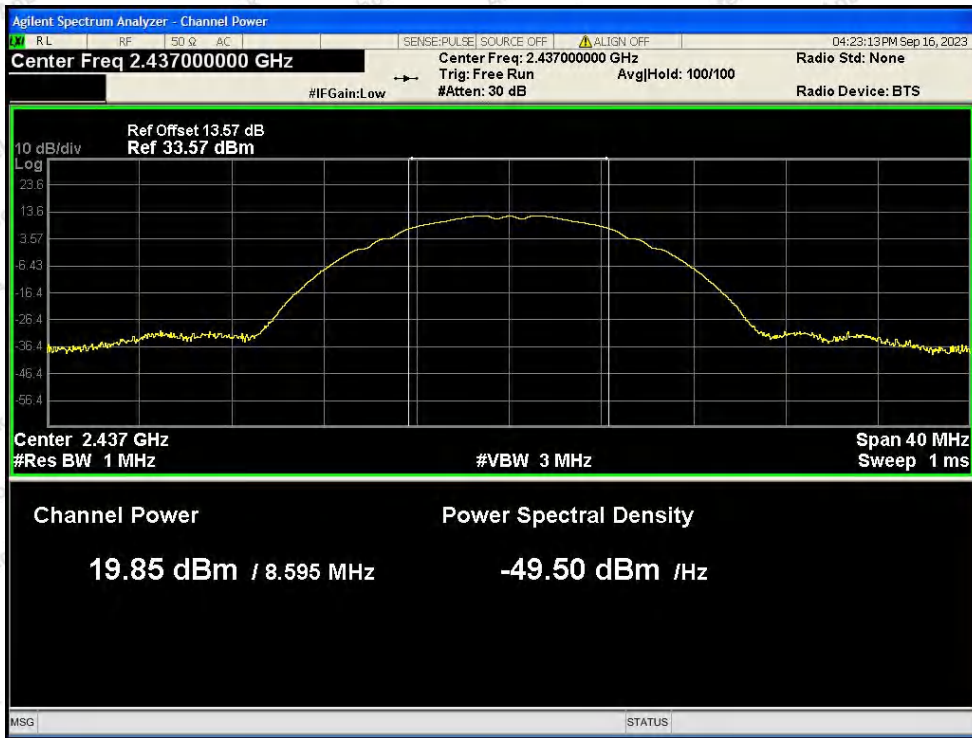
Peak Power NVNT b 2412MHz Ant0 SISO



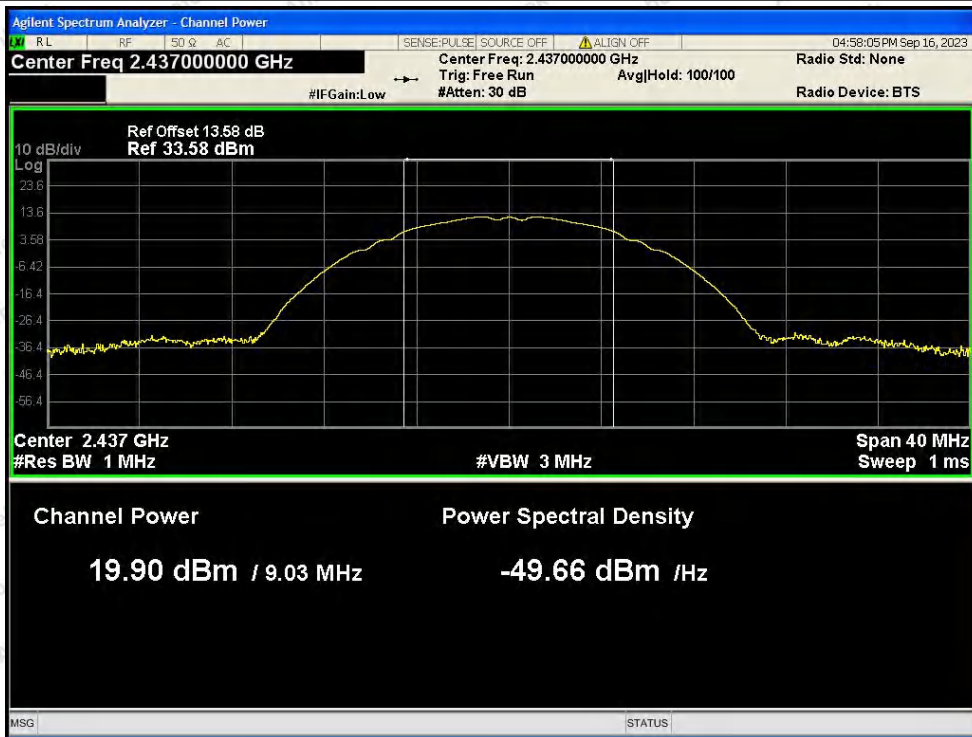
Peak Power NVNT b 2412MHz Ant1 SISO



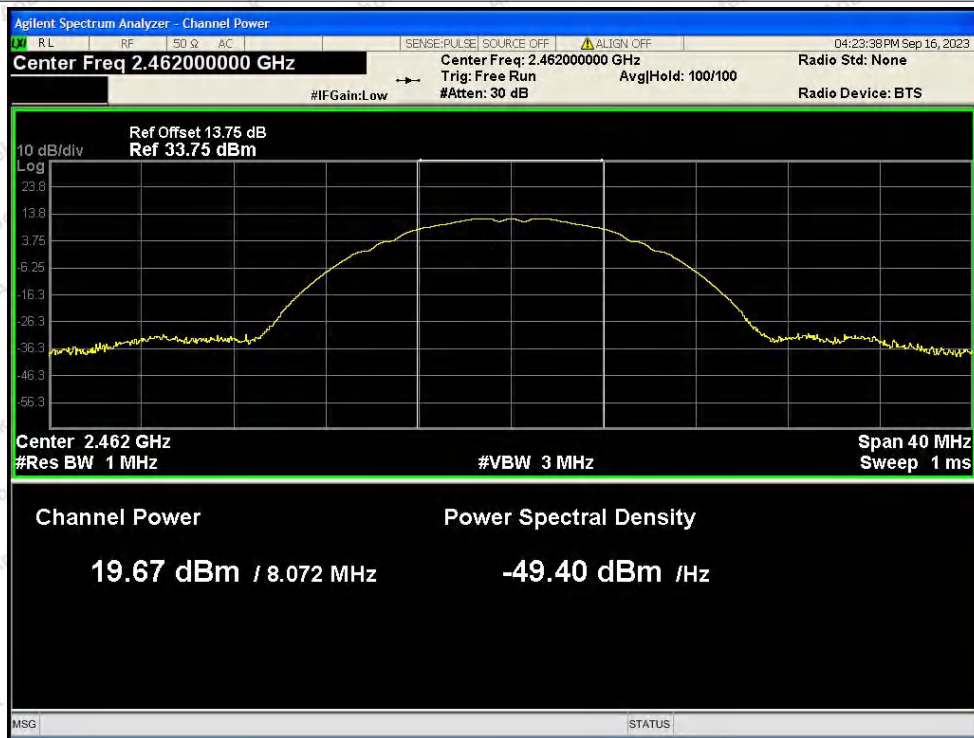
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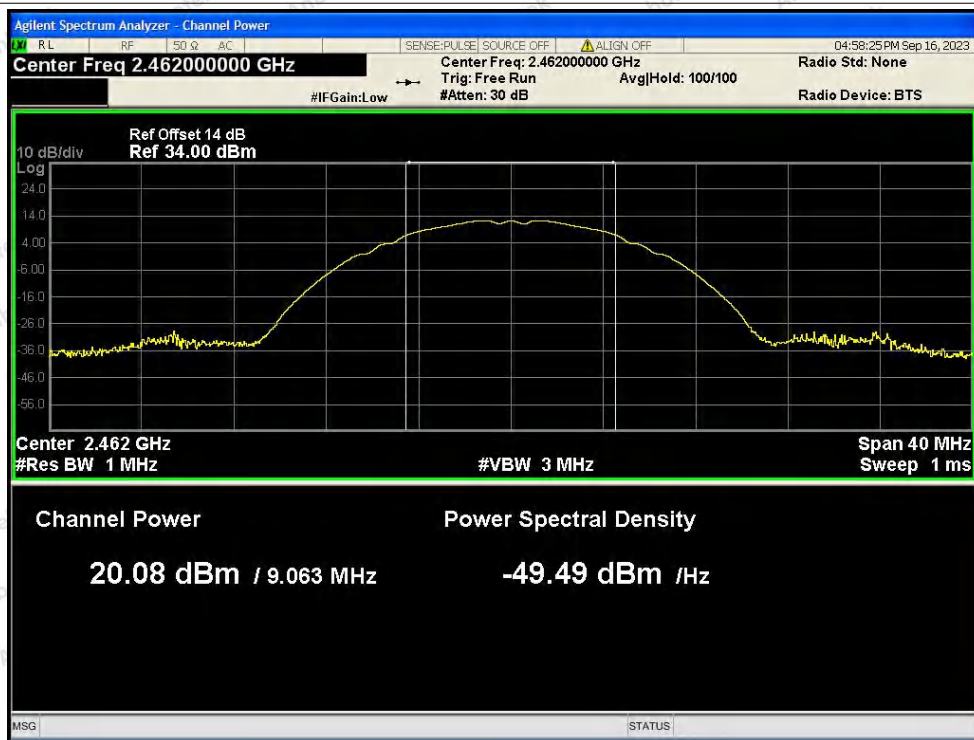
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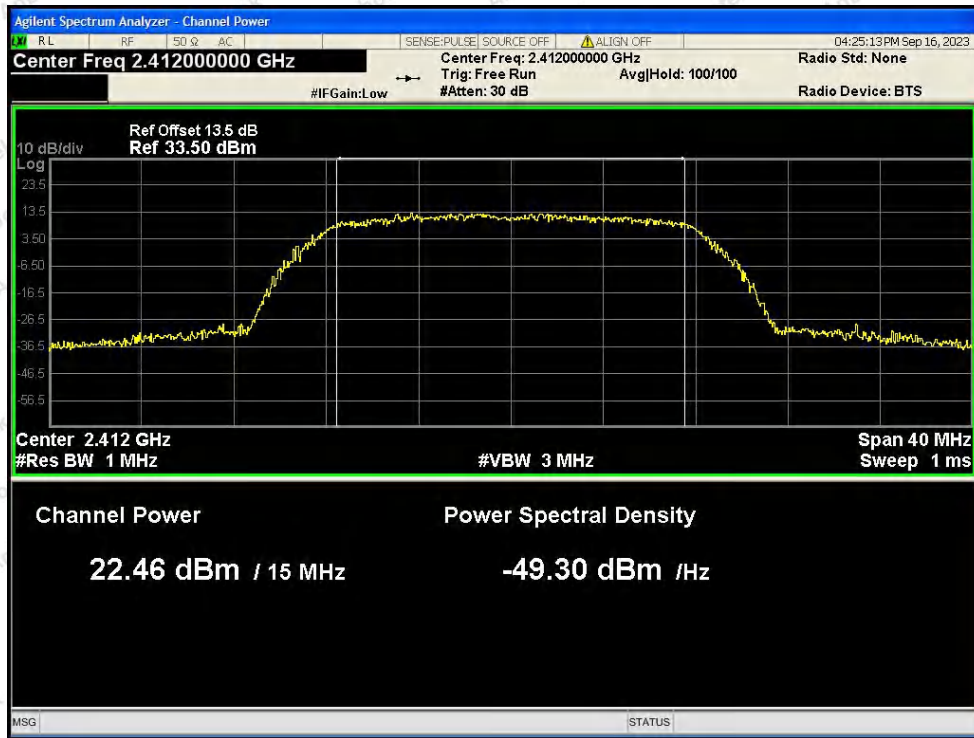
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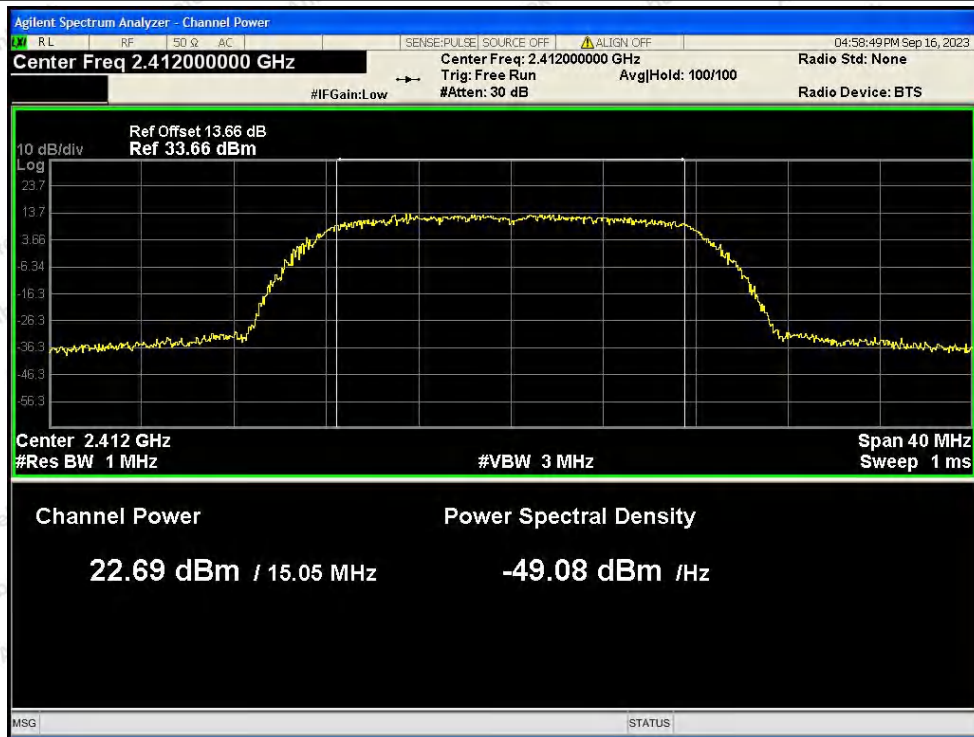
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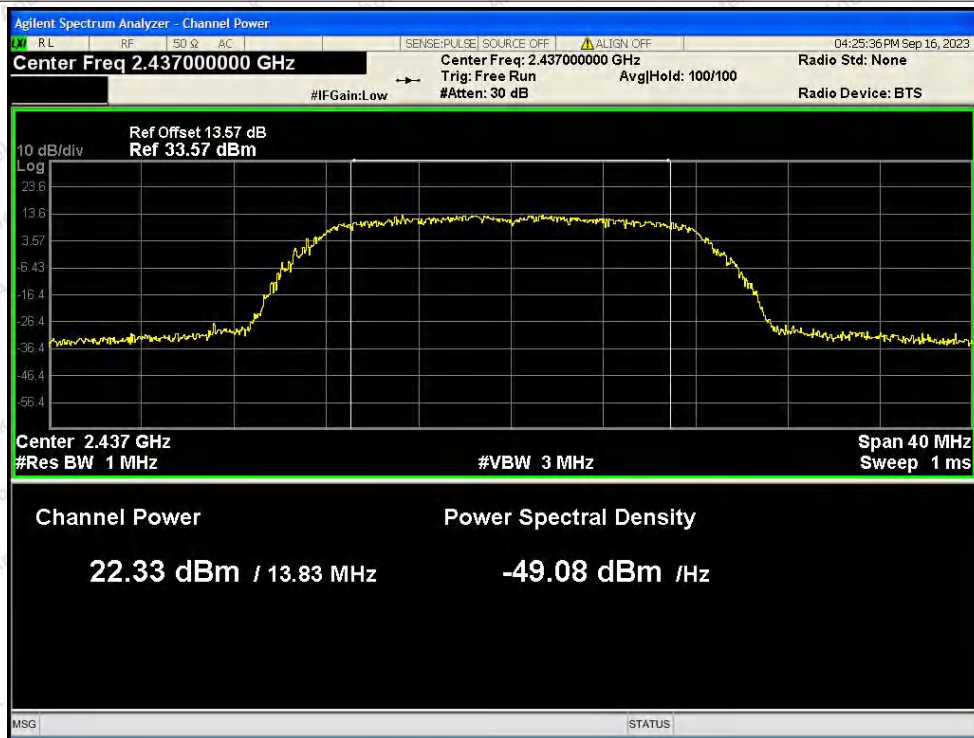
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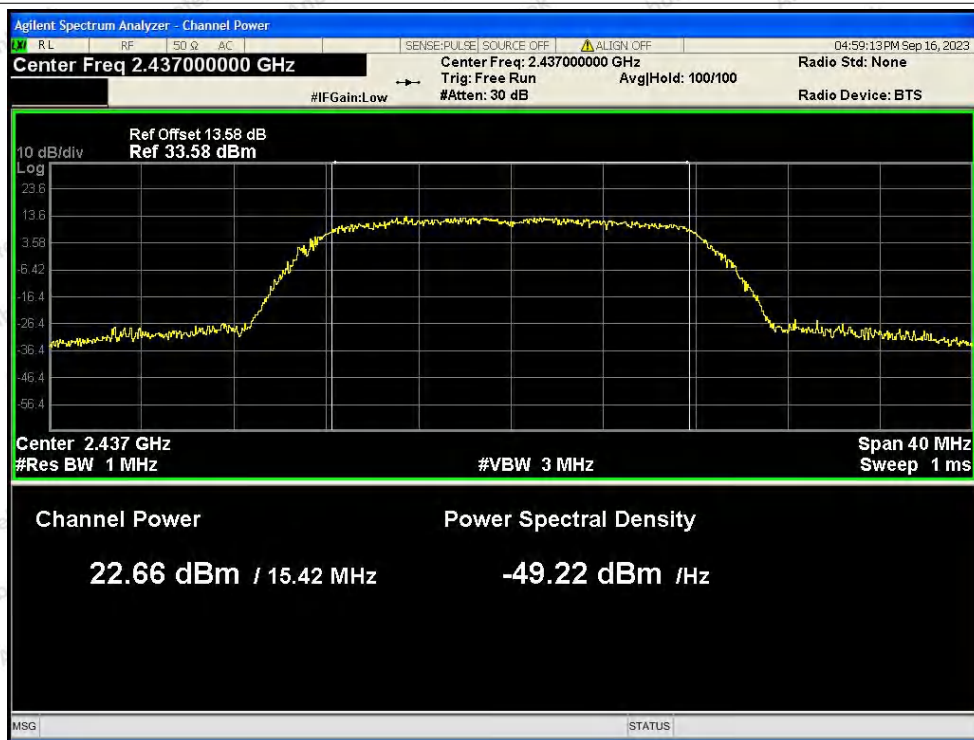
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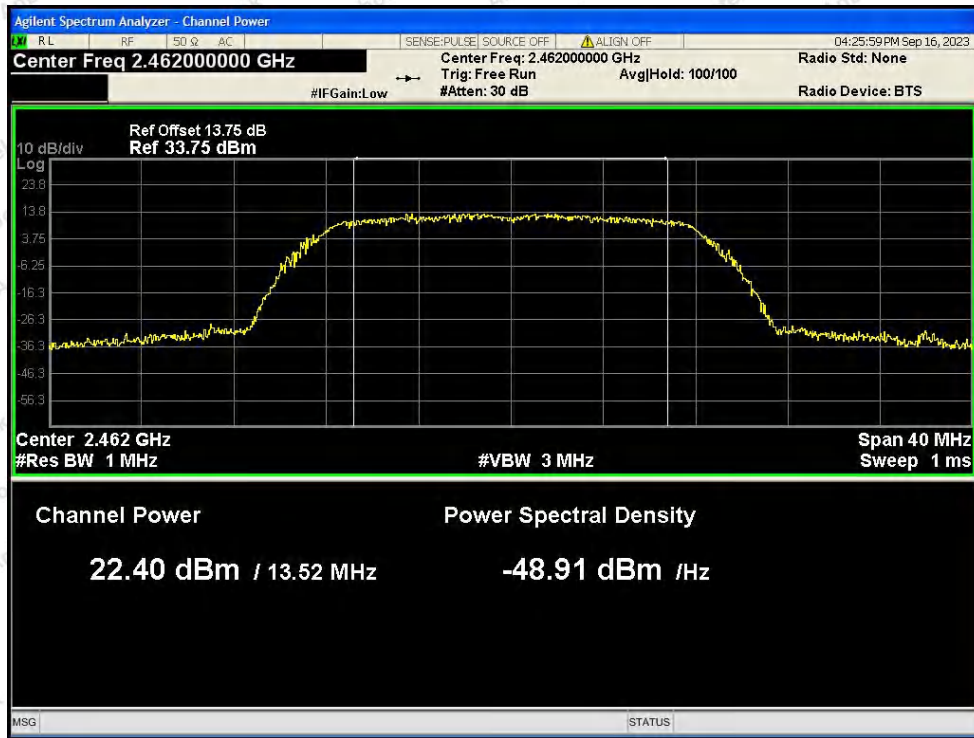
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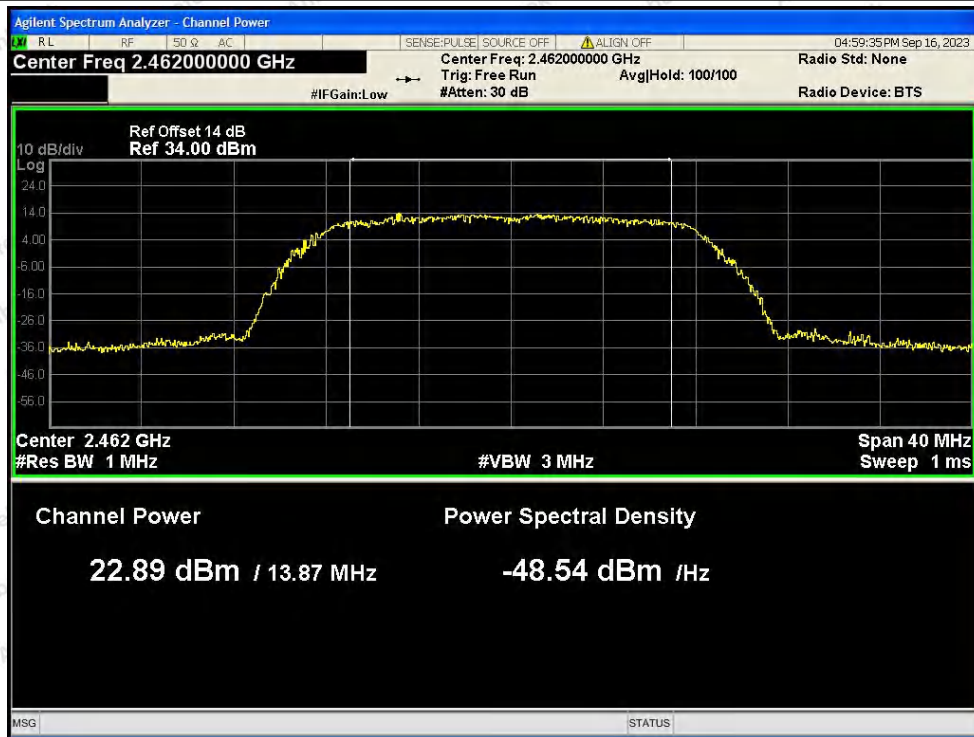
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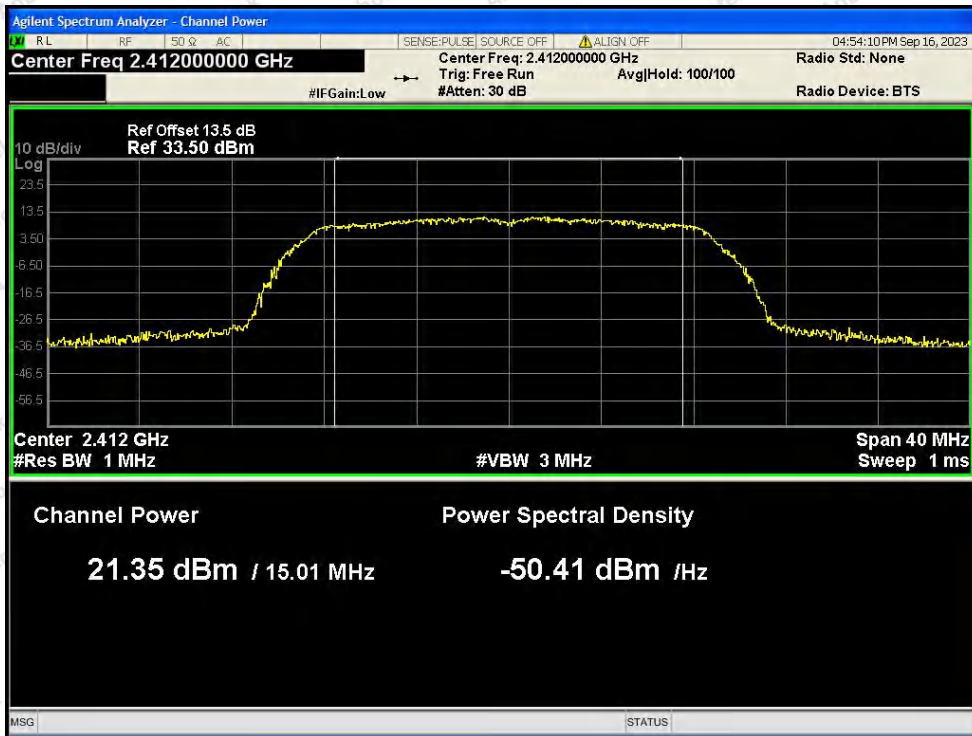
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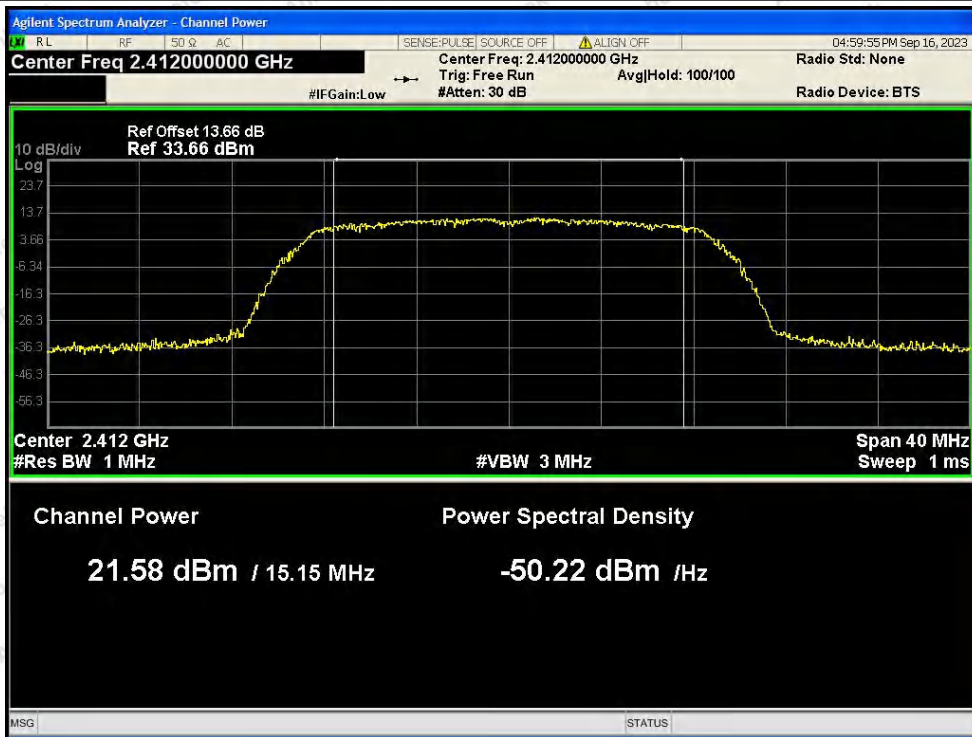
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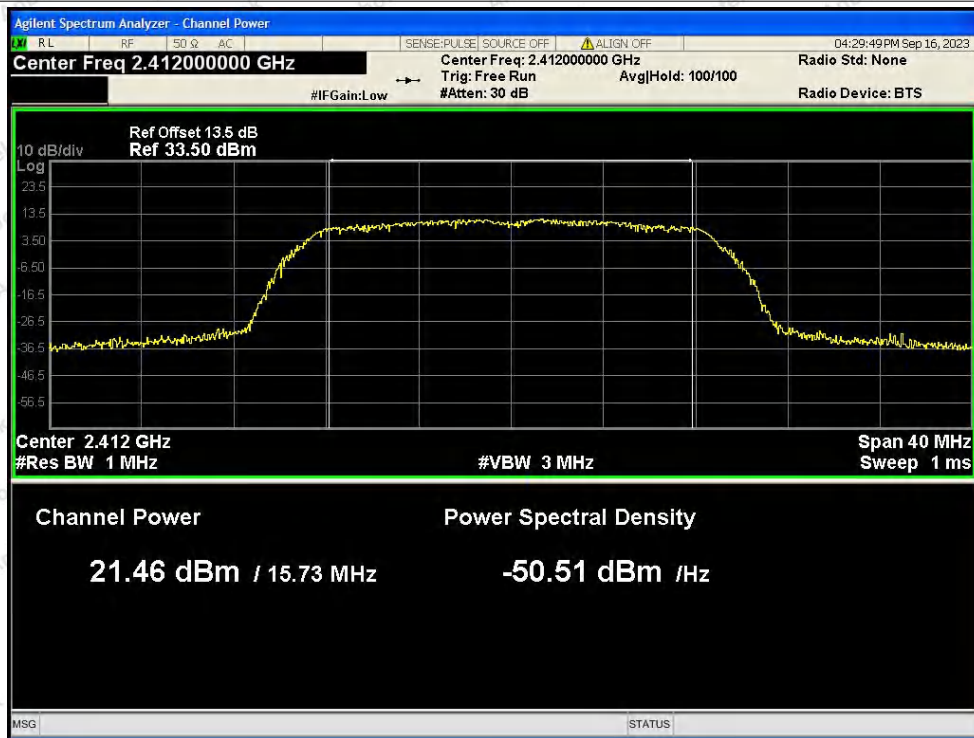
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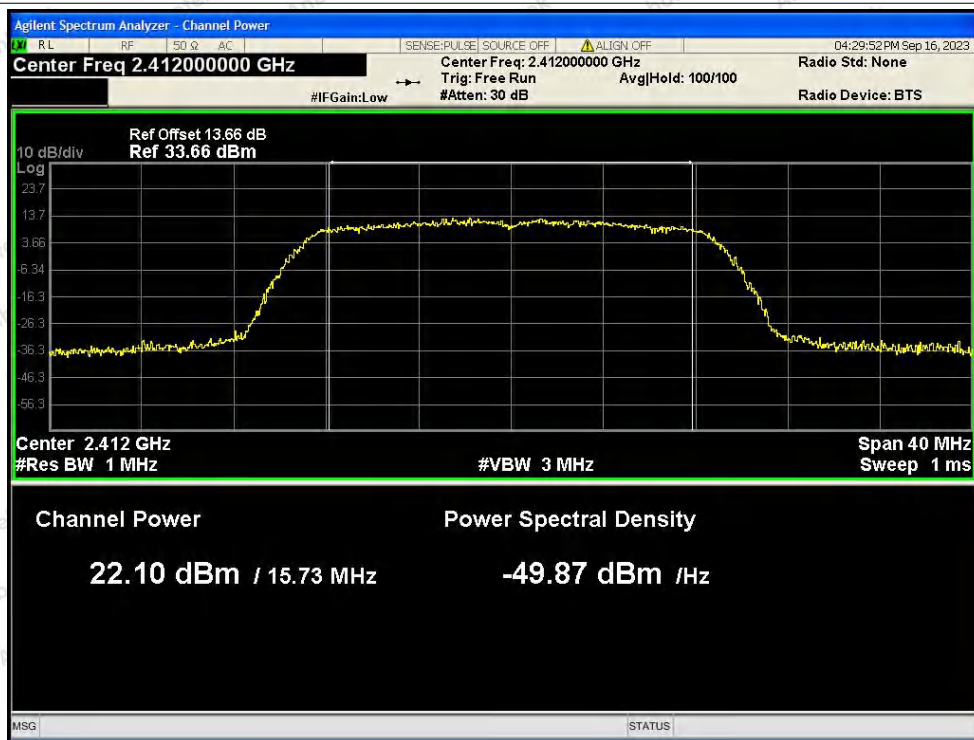
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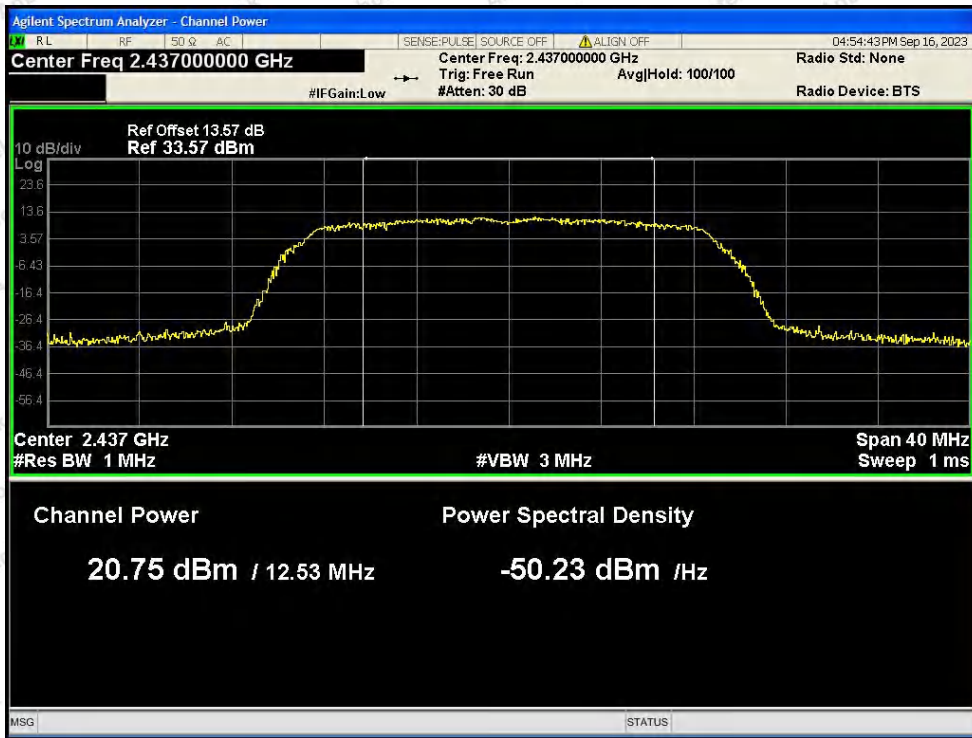
Peak Power NVNT n20 2412MHz Ant0 MIMO



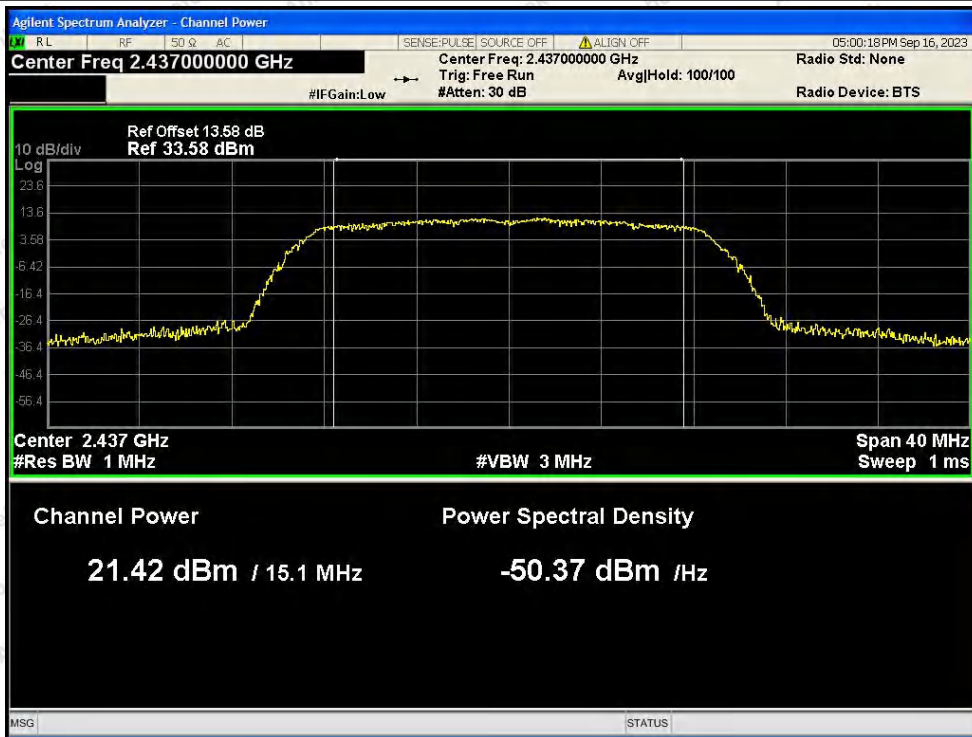
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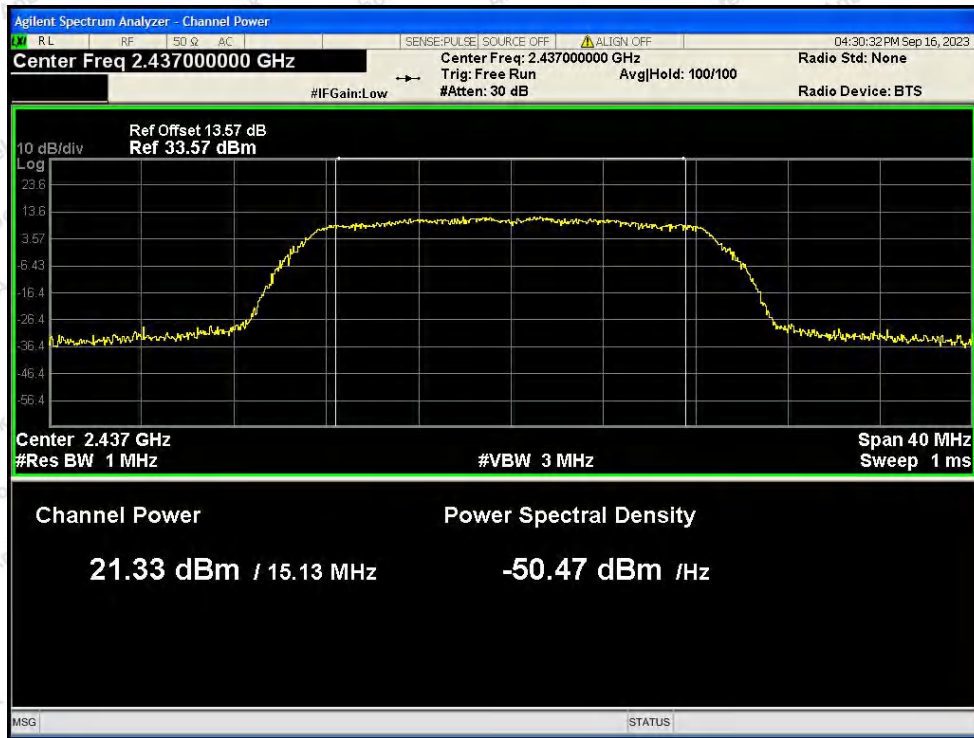
Peak Power NVNT n20 2437MHz Ant0 SISO



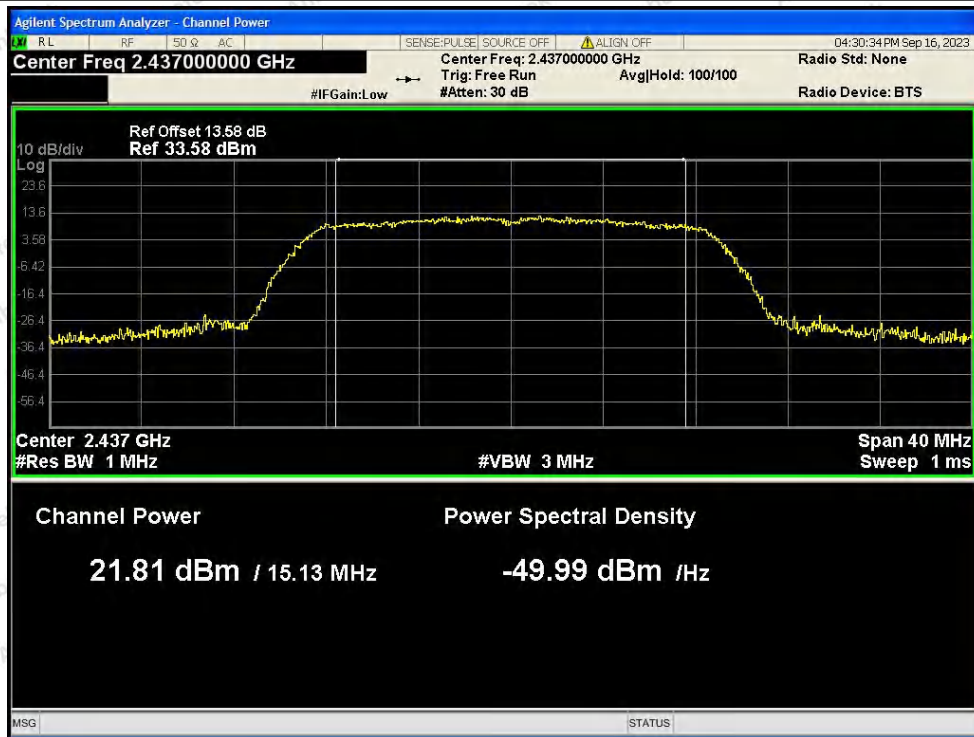
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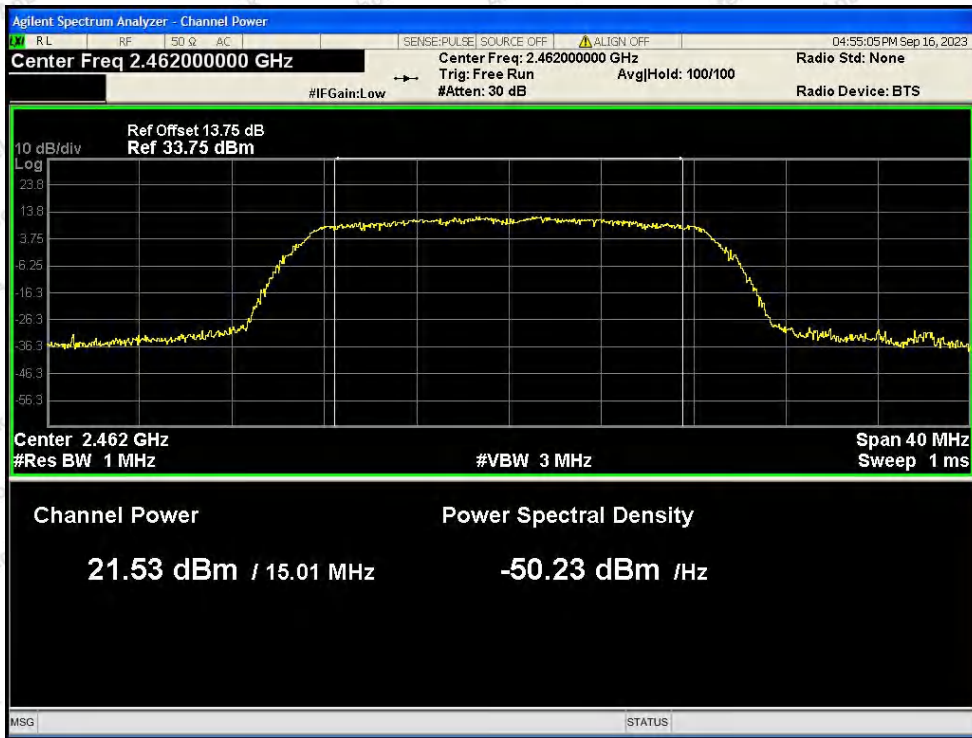
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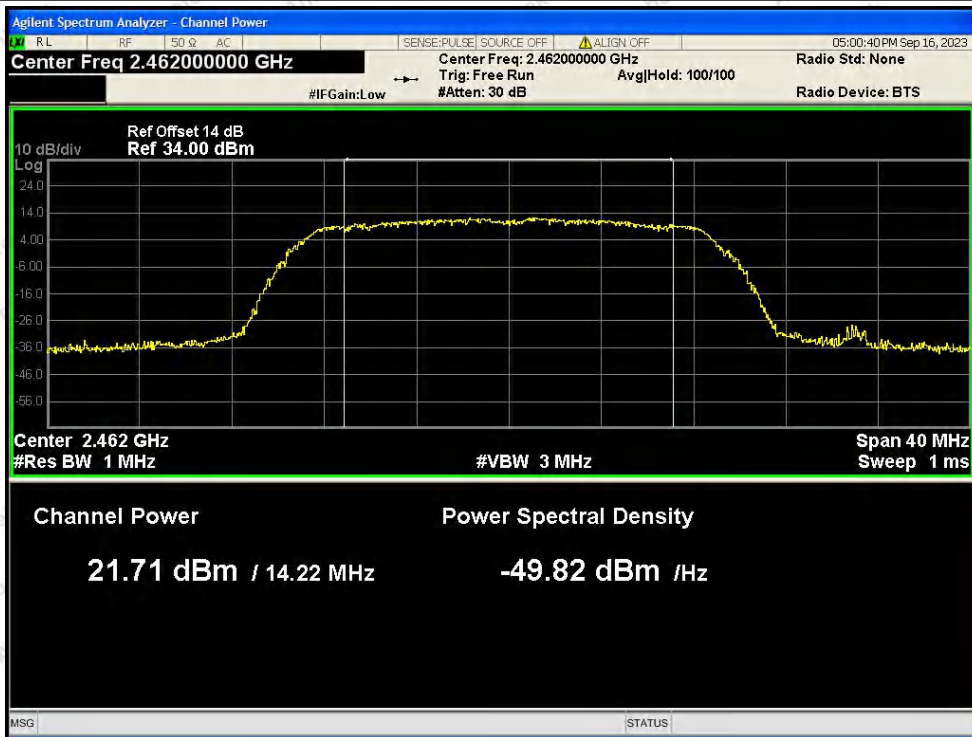
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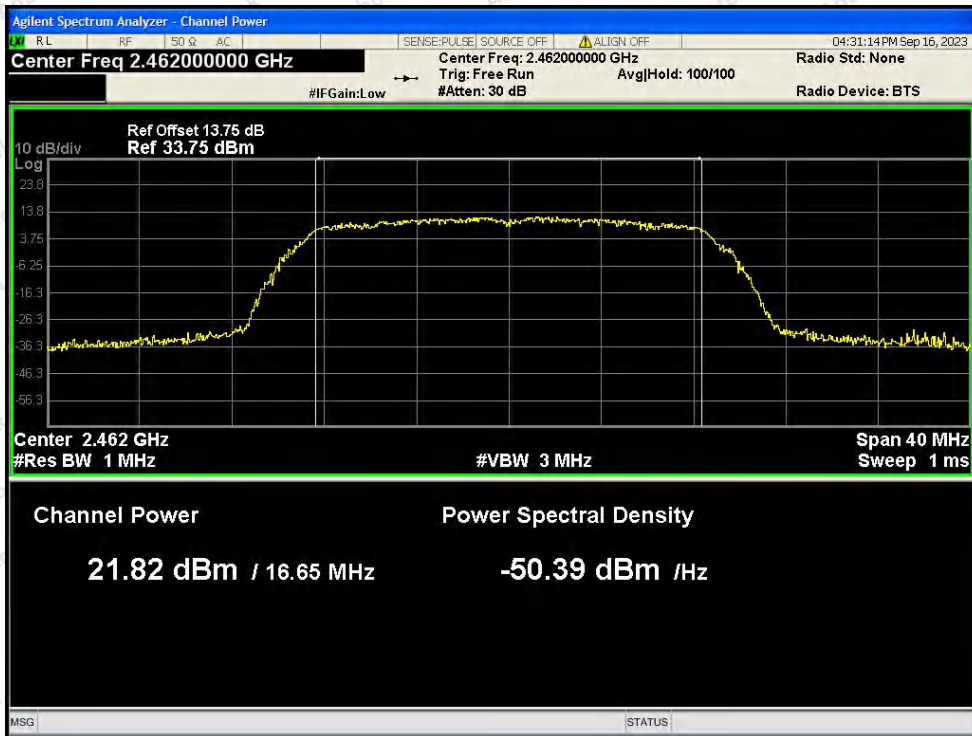
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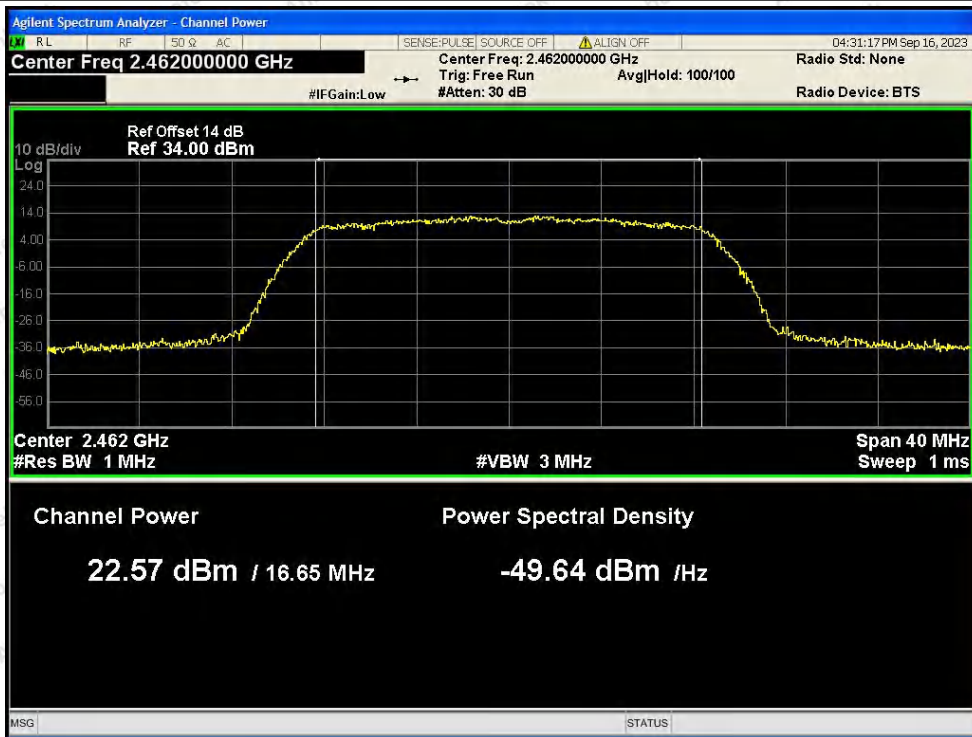
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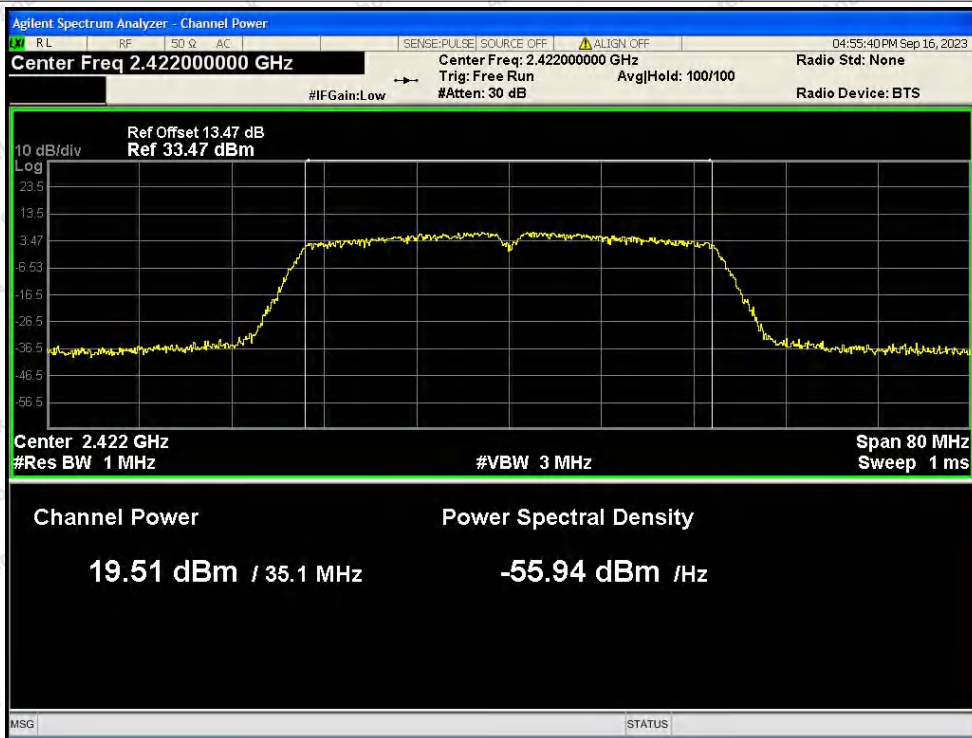
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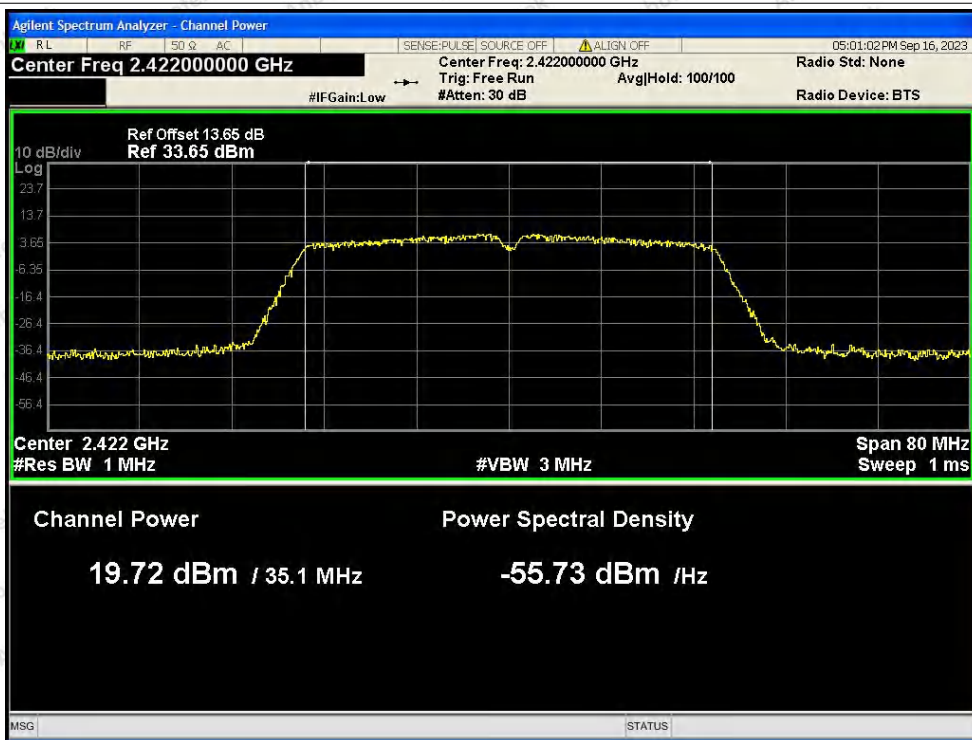
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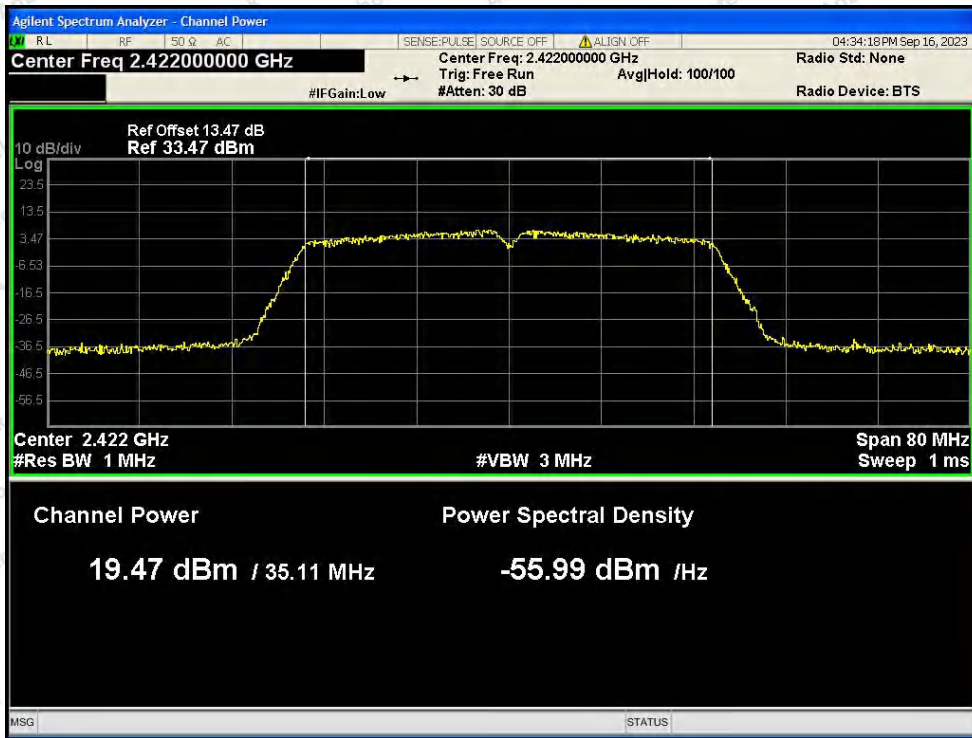
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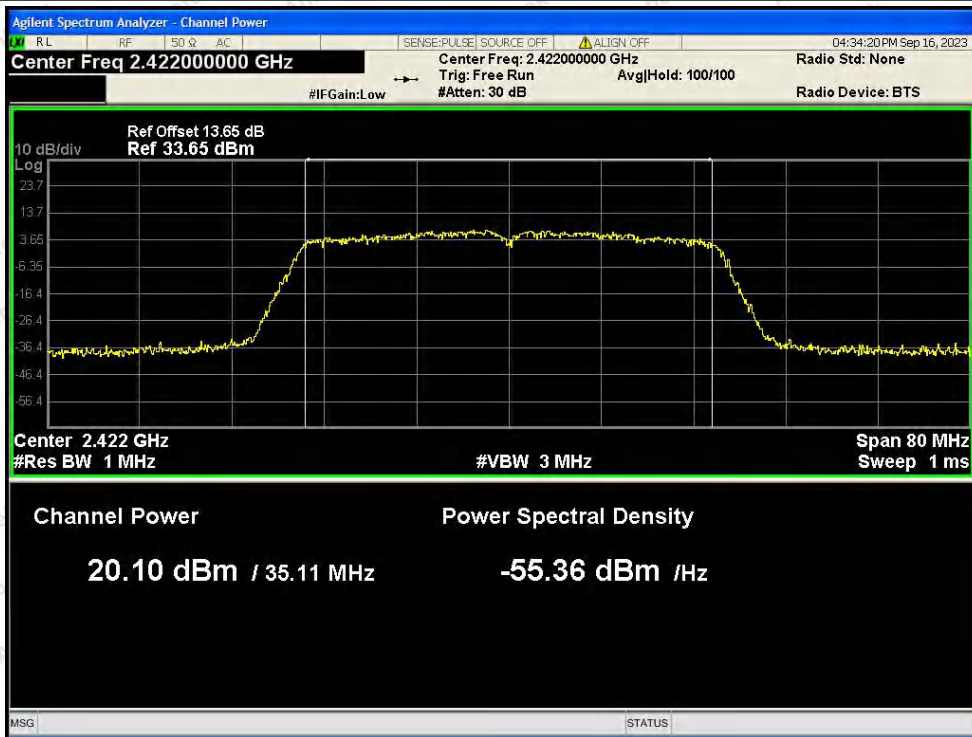
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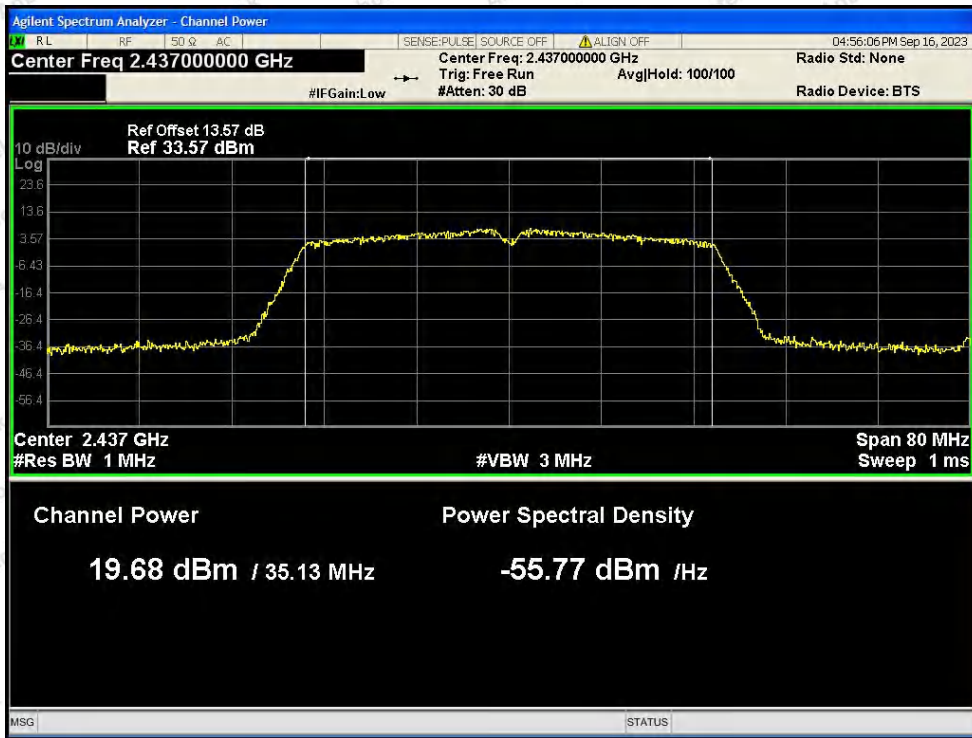
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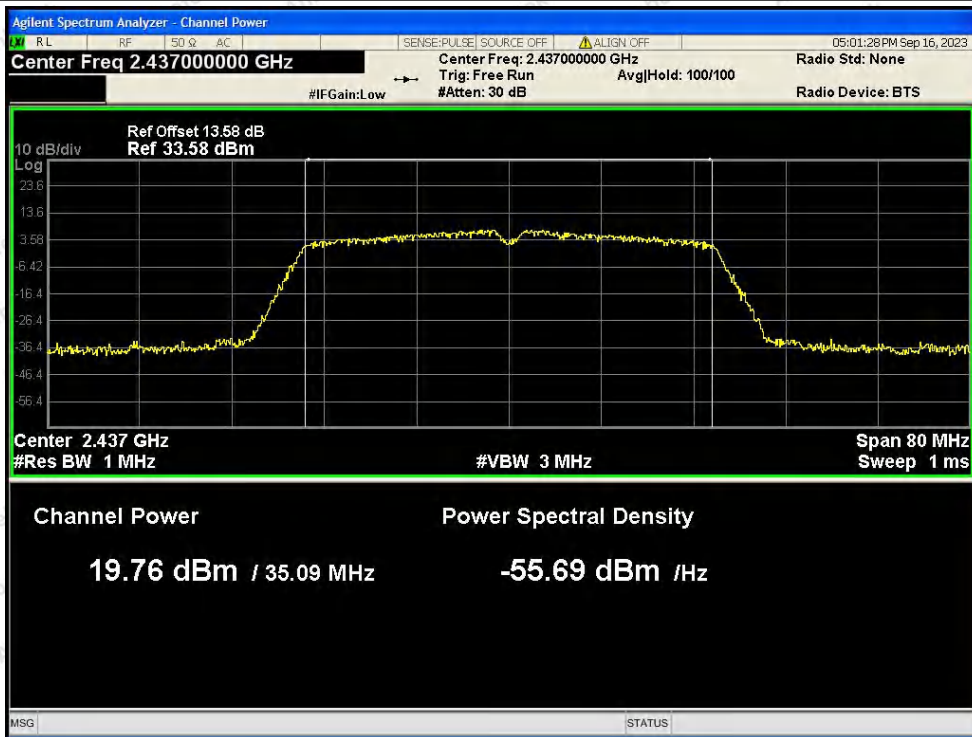
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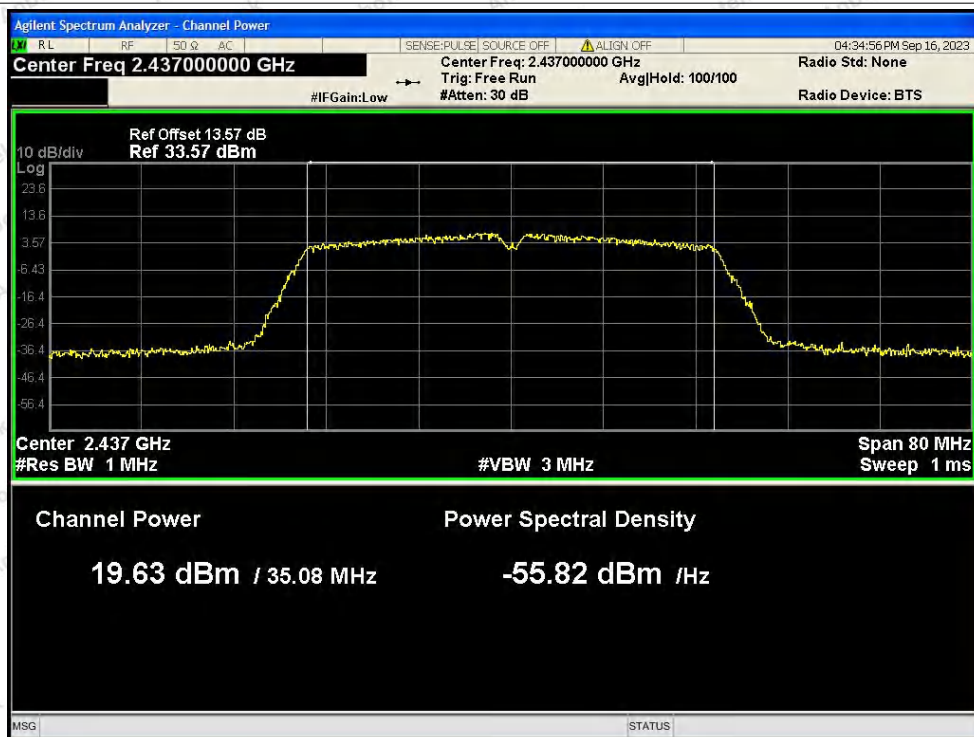
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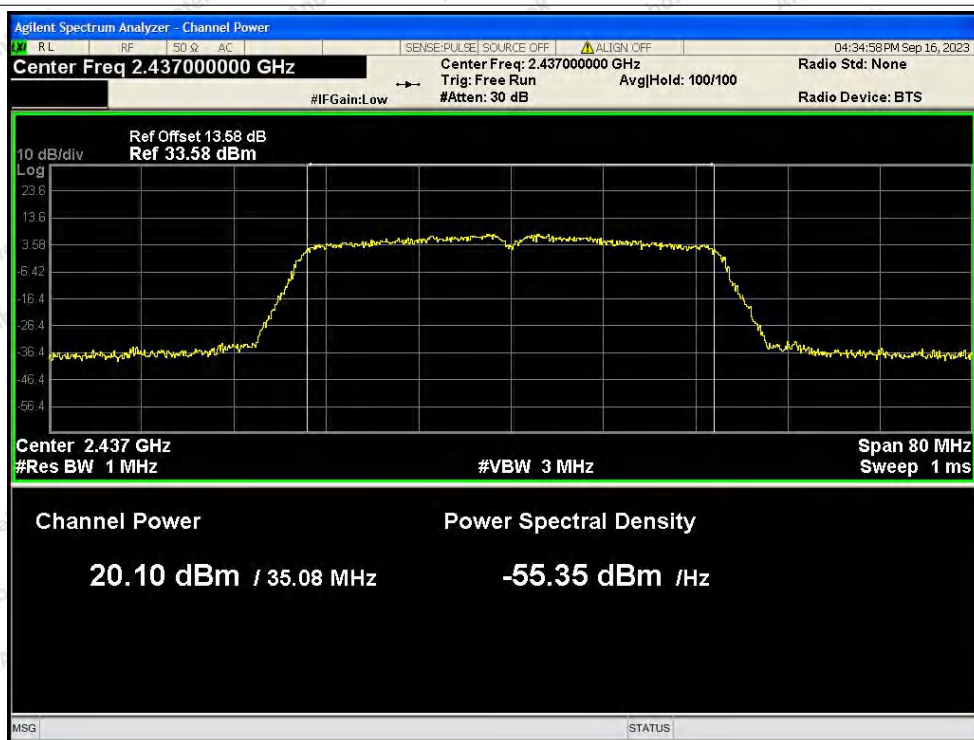
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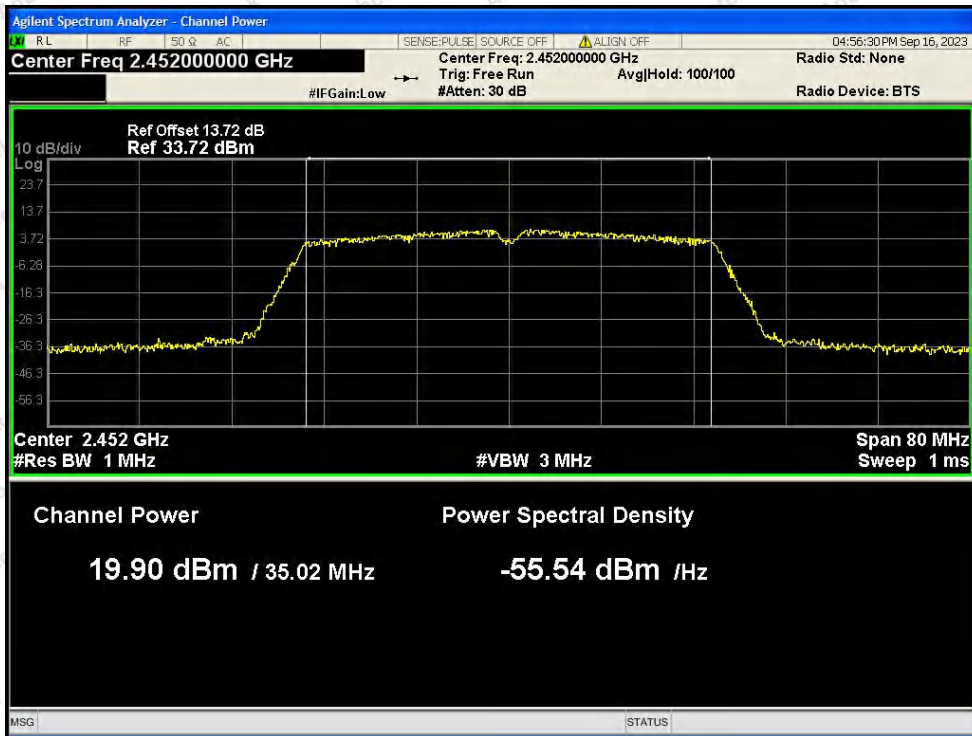
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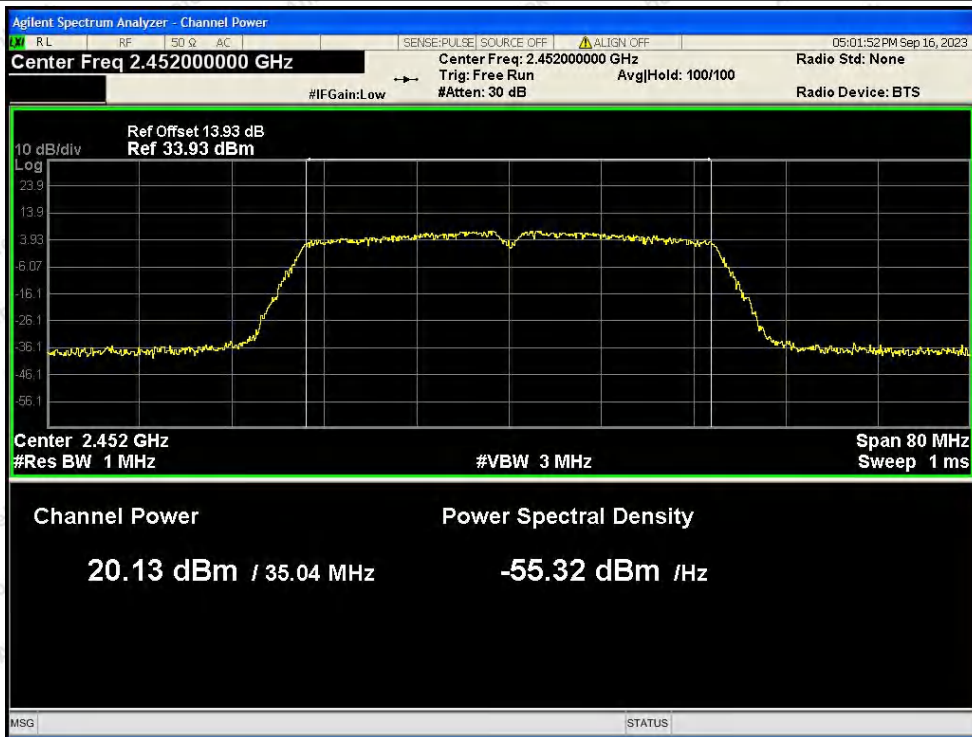
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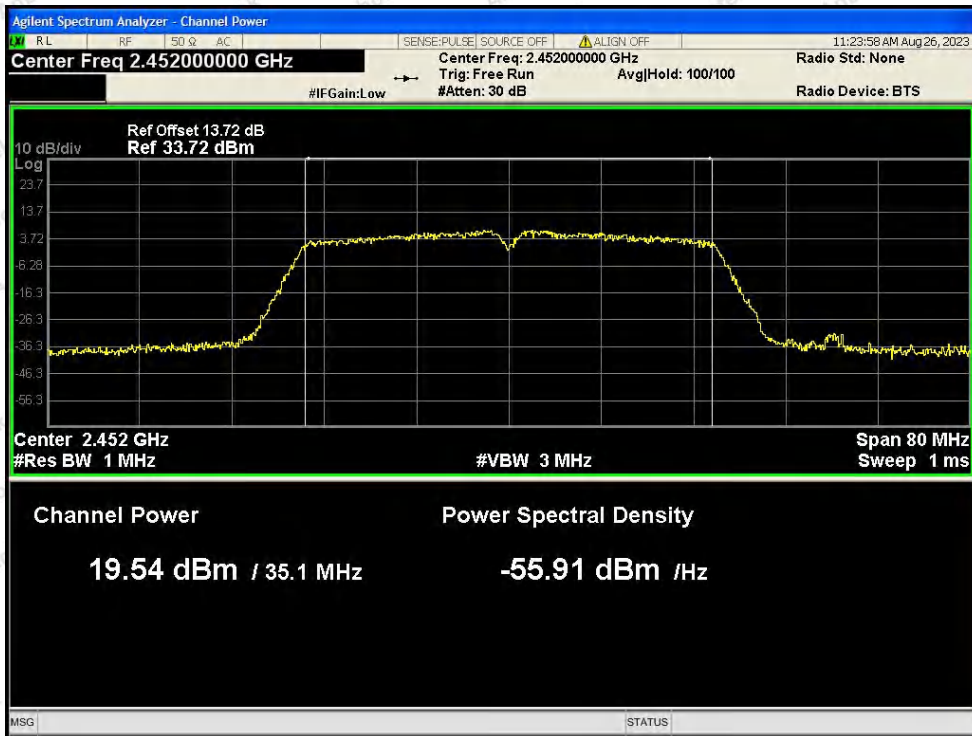
Peak Power NVNT n40 2452MHz Ant0 SISO



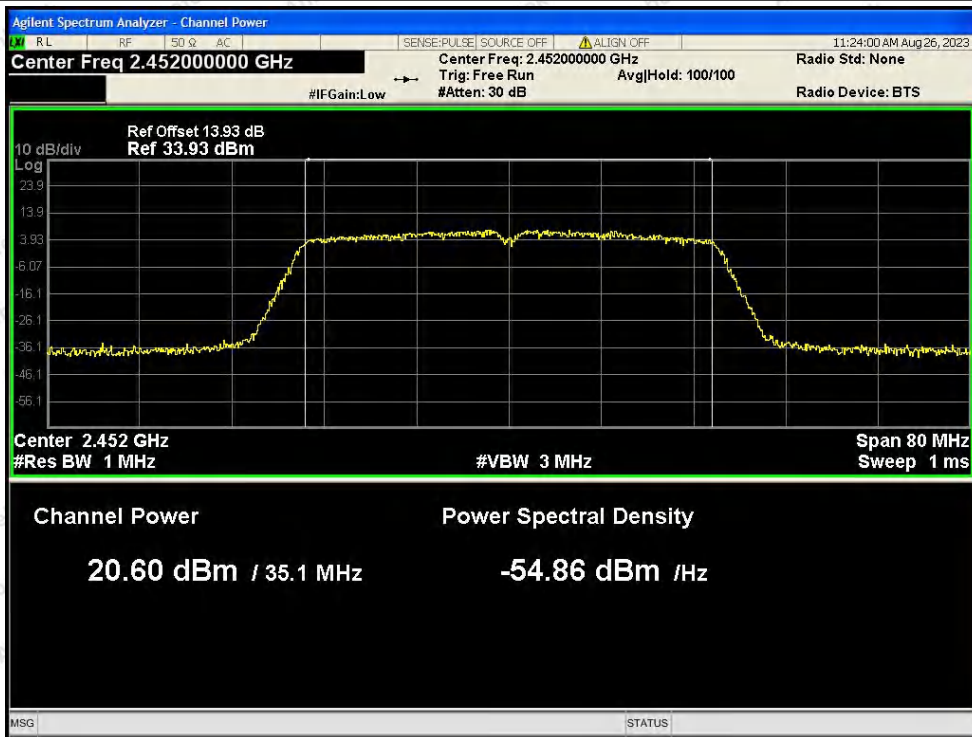
Peak Power NVNT n40 2452MHz Ant1 SISO



Peak Power NVNT n40 2452MHz Ant0 MIMO



Peak Power NVNT n40 2452MHz Ant1 MIMO



Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	b SISO	2412	Ant0	16.88	0.02	16.9	0.04898	30	Pass
NVNT	b SISO	2412	Ant1	17.26	0.02	17.28	0.05346	30	Pass
NVNT	b SISO	2437	Ant0	17.39	0.02	17.41	0.05508	30	Pass
NVNT	b SISO	2437	Ant1	17.31	0.02	17.33	0.05408	30	Pass
NVNT	b SISO	2462	Ant0	17.29	0.02	17.31	0.05383	30	Pass
NVNT	b SISO	2462	Ant1	17.5	0.02	17.52	0.05649	30	Pass
NVNT	g SISO	2412	Ant0	15.28	0.16	15.44	0.03499	30	Pass
NVNT	g SISO	2412	Ant1	15.56	0.16	15.72	0.03733	30	Pass
NVNT	g SISO	2437	Ant0	15.35	0.17	15.52	0.03565	30	Pass
NVNT	g SISO	2437	Ant1	15.41	0.17	15.58	0.03614	30	Pass
NVNT	g SISO	2462	Ant0	15.53	0.16	15.69	0.03707	30	Pass
NVNT	g SISO	2462	Ant1	16	0.16	16.16	0.0413	30	Pass
NVNT	n20 SISO	2412	Ant0	14.28	0.17	14.45	0.02786	30	Pass
NVNT	n20 SISO	2412	Ant1	14.44	0.18	14.62	0.02897	30	Pass
NVNT	n20 MIMO	2412	Ant0	14.22	0.17	14.39	0.02748	30	Pass
NVNT	n20 MIMO	2412	Ant1	14.69	0.17	14.86	0.03062	30	Pass
NVNT	n20 MIMO	2412	Sum	NaN	NaN	17.64	0.0581	28.04	Pass
NVNT	n20 SISO	2437	Ant0	14.31	0.18	14.49	0.02812	30	Pass
NVNT	n20	2437	Ant1	14.29	0.18	14.47	0.02799	30	Pass

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

Hotline
 400-003-0500
 www.anbotek.com.cn



	SISO								
NVNT	n20 MIMO	2437	Ant0	14.29	0.18	14.47	0.02799	30	Pass
NVNT	n20 MIMO	2437	Ant1	14.4	0.18	14.58	0.02871	30	Pass
NVNT	n20 MIMO	2437	Sum	NaN	NaN	17.54	0.0567	28.04	Pass
NVNT	n20 SISO	2462	Ant0	14.49	0.17	14.66	0.02924	30	Pass
NVNT	n20 SISO	2462	Ant1	14.72	0.17	14.89	0.03083	30	Pass
NVNT	n20 MIMO	2462	Ant0	14.46	0.17	14.63	0.02904	30	Pass
NVNT	n20 MIMO	2462	Ant1	14.88	0.17	15.05	0.03199	30	Pass
NVNT	n20 MIMO	2462	Sum	NaN	NaN	17.86	0.06103	28.04	Pass
NVNT	n40 SISO	2422	Ant0	12.01	0.35	12.36	0.01722	30	Pass
NVNT	n40 SISO	2422	Ant1	12.35	0.34	12.69	0.01858	30	Pass
NVNT	n40 MIMO	2422	Ant0	11.98	0.35	12.33	0.0171	30	Pass
NVNT	n40 MIMO	2422	Ant1	12.36	0.35	12.71	0.01866	30	Pass
NVNT	n40 MIMO	2422	Sum	NaN	NaN	15.53	0.03576	28.04	Pass
NVNT	n40 SISO	2437	Ant0	12.12	0.34	12.46	0.01762	30	Pass
NVNT	n40 SISO	2437	Ant1	12.34	0.34	12.68	0.01854	30	Pass
NVNT	n40 MIMO	2437	Ant0	12.24	0.34	12.58	0.01811	30	Pass
NVNT	n40 MIMO	2437	Ant1	12.38	0.34	12.72	0.01871	30	Pass
NVNT	n40 MIMO	2437	Sum	NaN	NaN	15.66	0.03682	28.04	Pass
NVNT	n40 SISO	2452	Ant0	12.38	0.34	12.72	0.01871	30	Pass
NVNT	n40 SISO	2452	Ant1	12.67	0.33	13	0.01995	30	Pass
NVNT	n40	2452	Ant0	12.19	0.35	12.54	0.01795	30	Pass

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Hotline
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 www.anbotek.com.cn



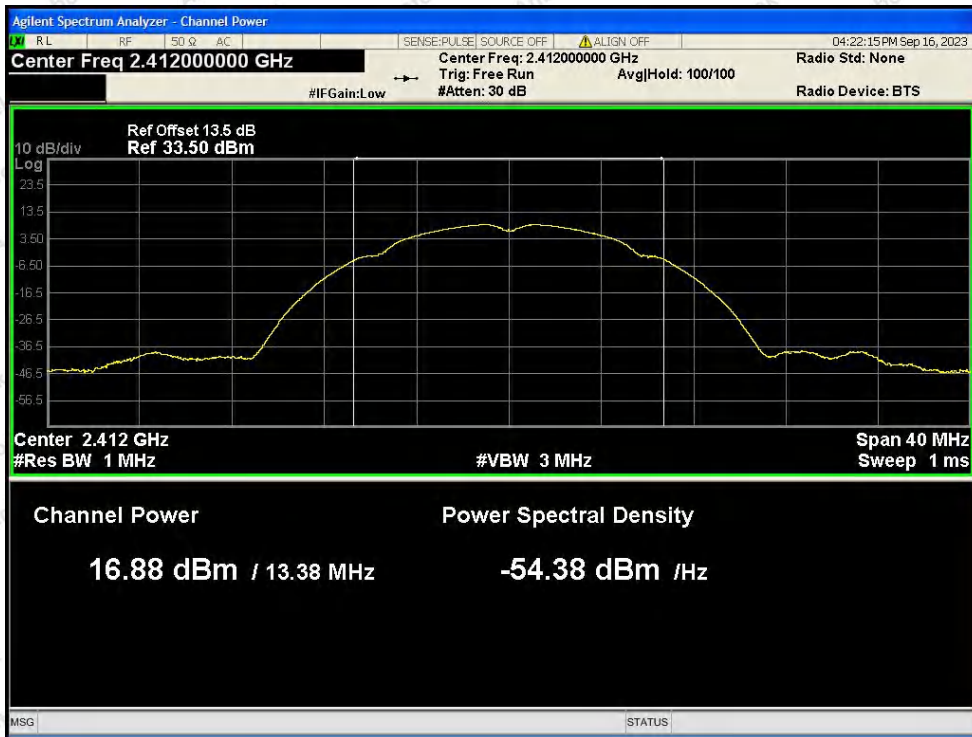
	MIMO								
NVNT	n40 MIMO	2452	Ant1	12.87	0.35	13.22	0.02099	30	Pass
NVNT	n40 MIMO	2452	Sum	NaN	NaN	15.9	0.03894	28.04	Pass

Note: Directional gain = $10\log[(10^{G0/20} + 10^{G1/20})/2] = 7.96\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (7.96 - 6) = 28.04\text{dBm}$.

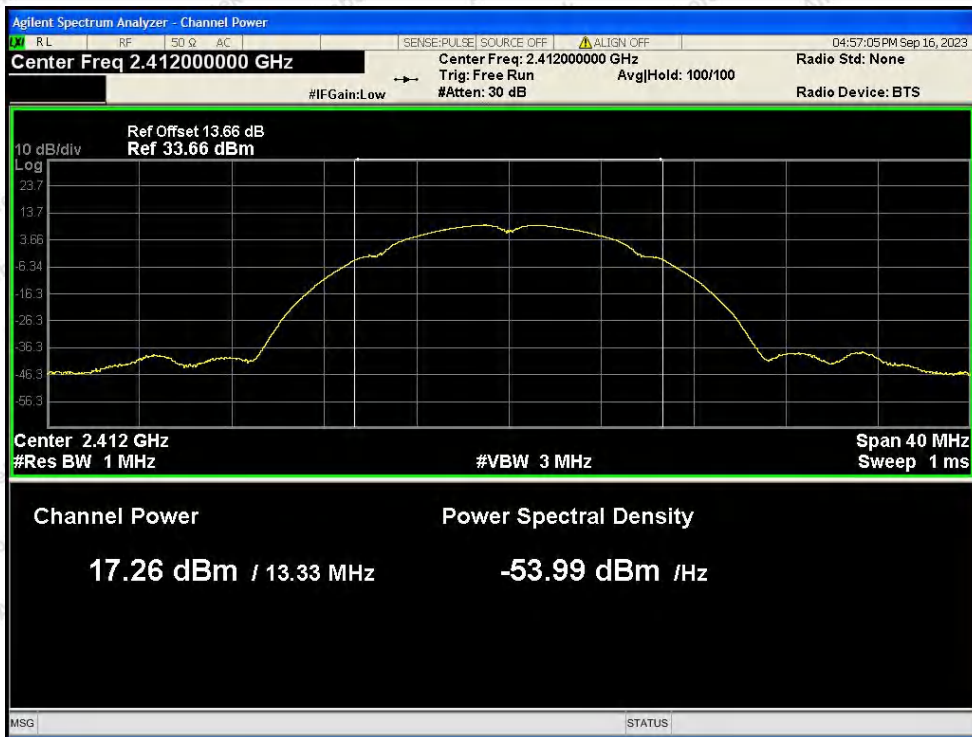


Test Graphs

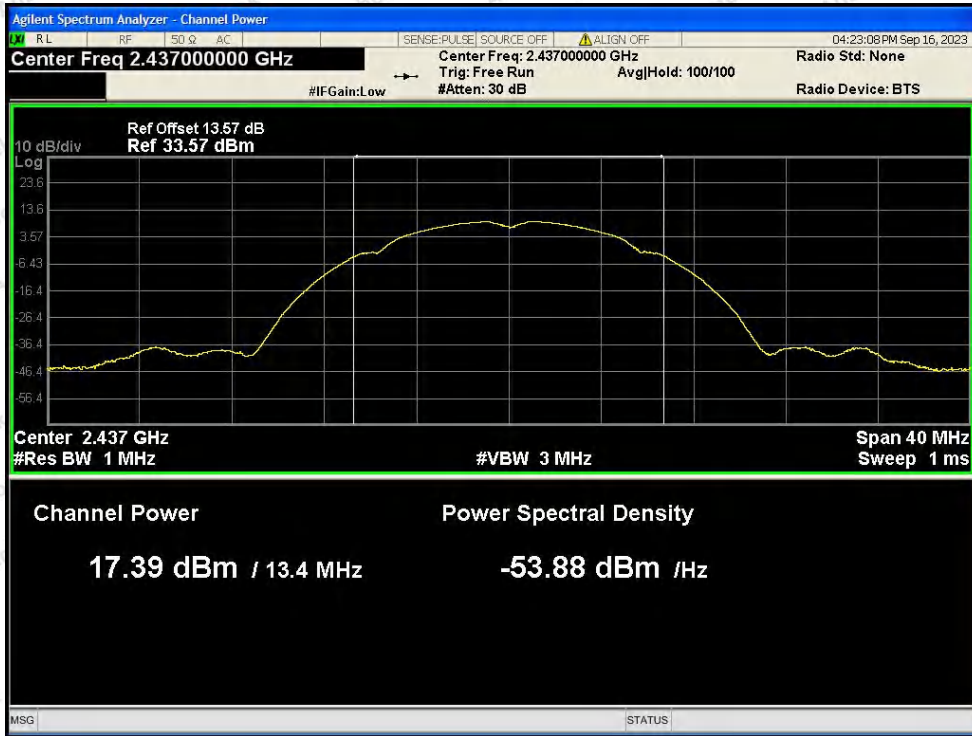
Average Power NVNT b 2412MHz Ant0 SISO



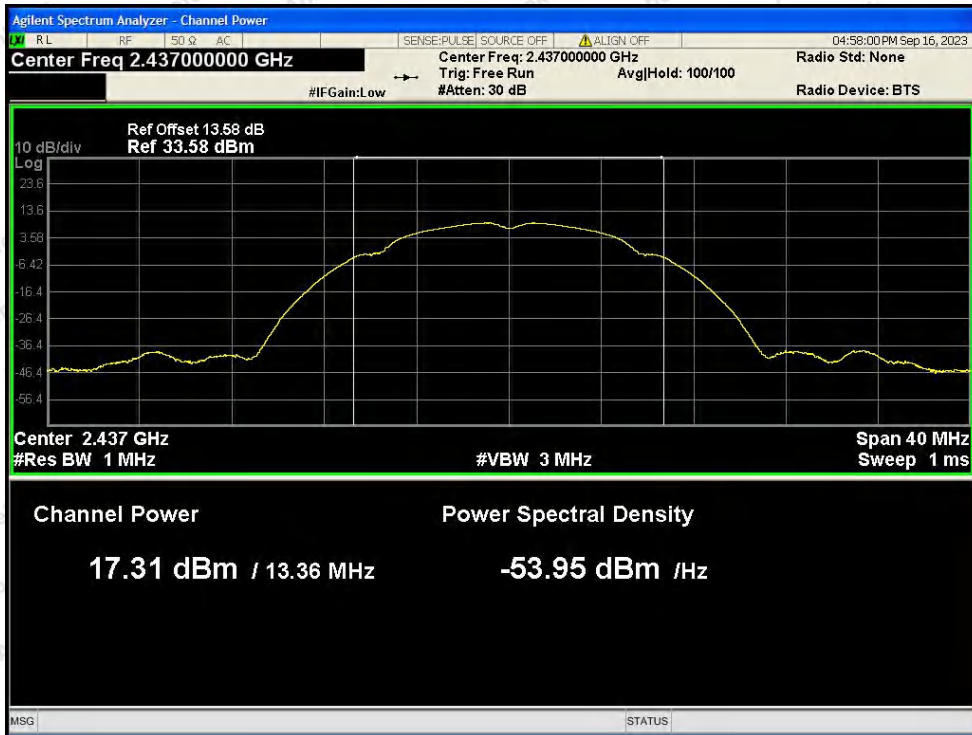
Average Power NVNT b 2412MHz Ant1 SISO



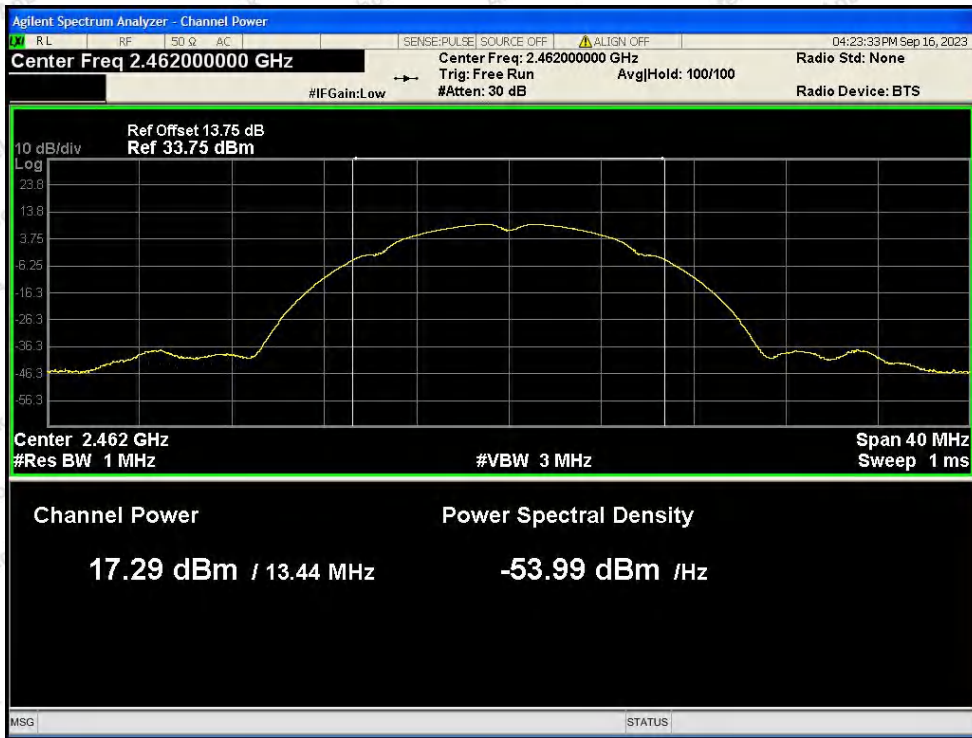
Average Power NVNT b 2437MHz Ant0 SISO



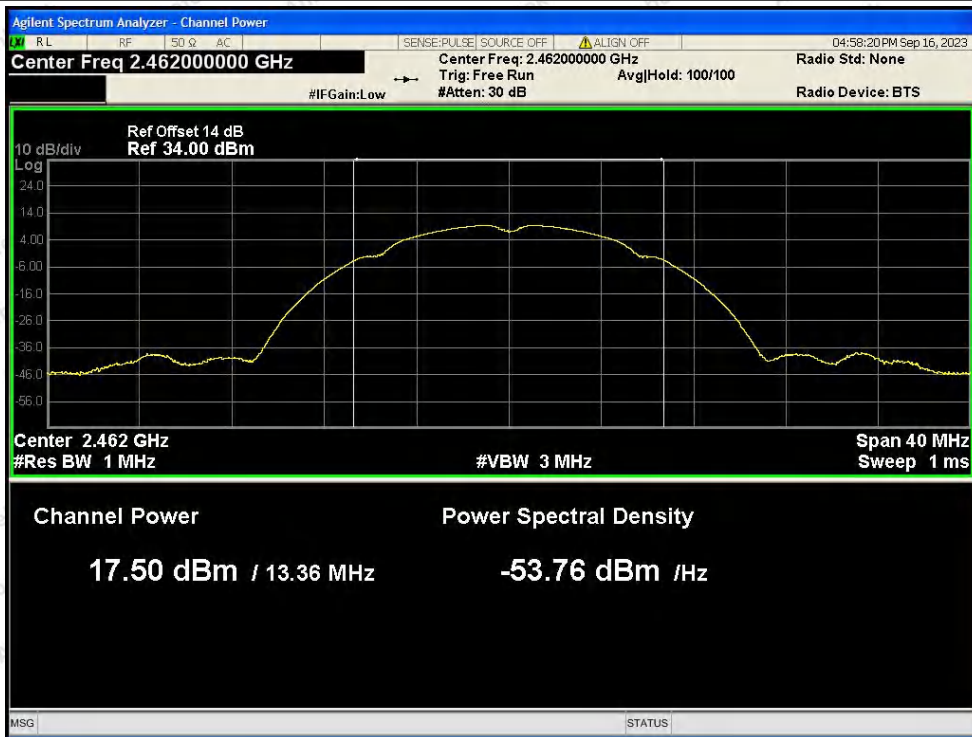
Average Power NVNT b 2437MHz Ant1 SISO



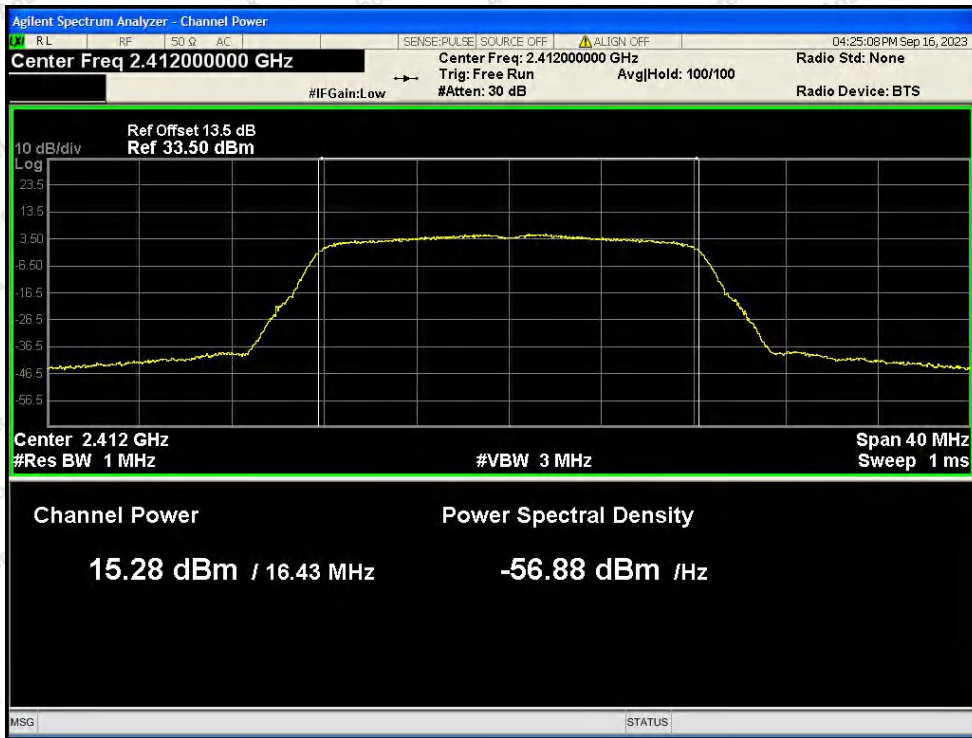
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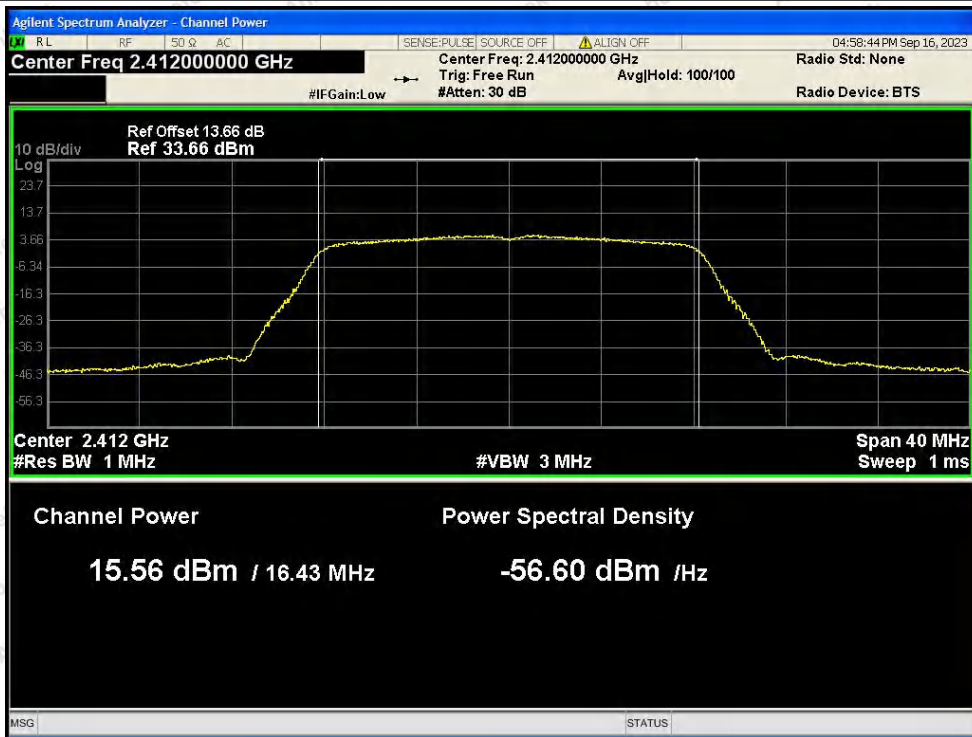
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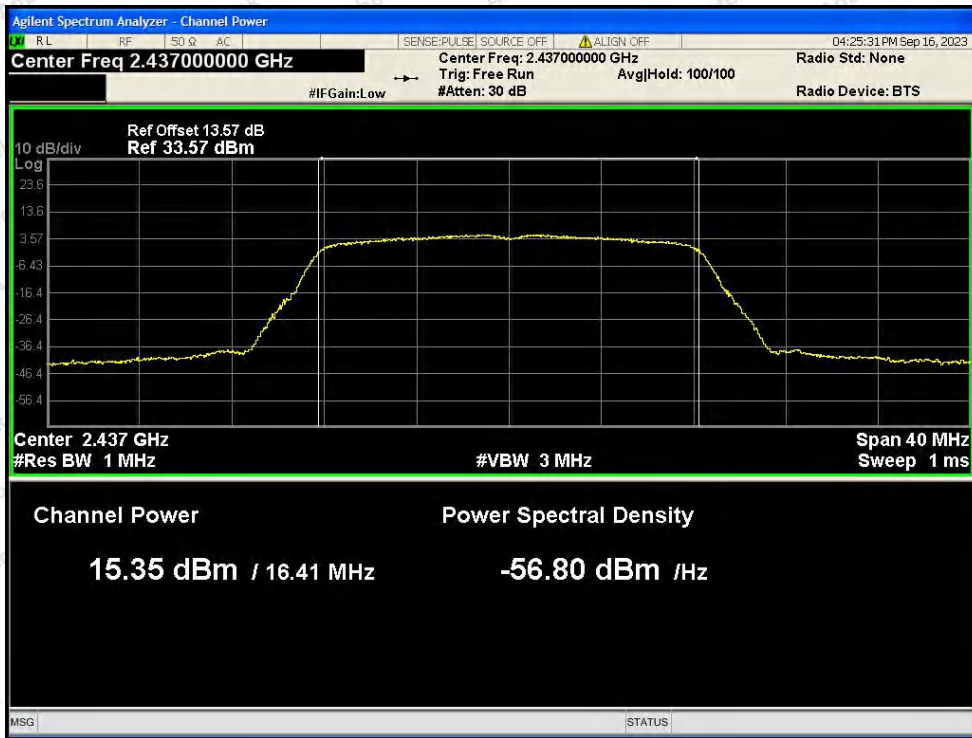
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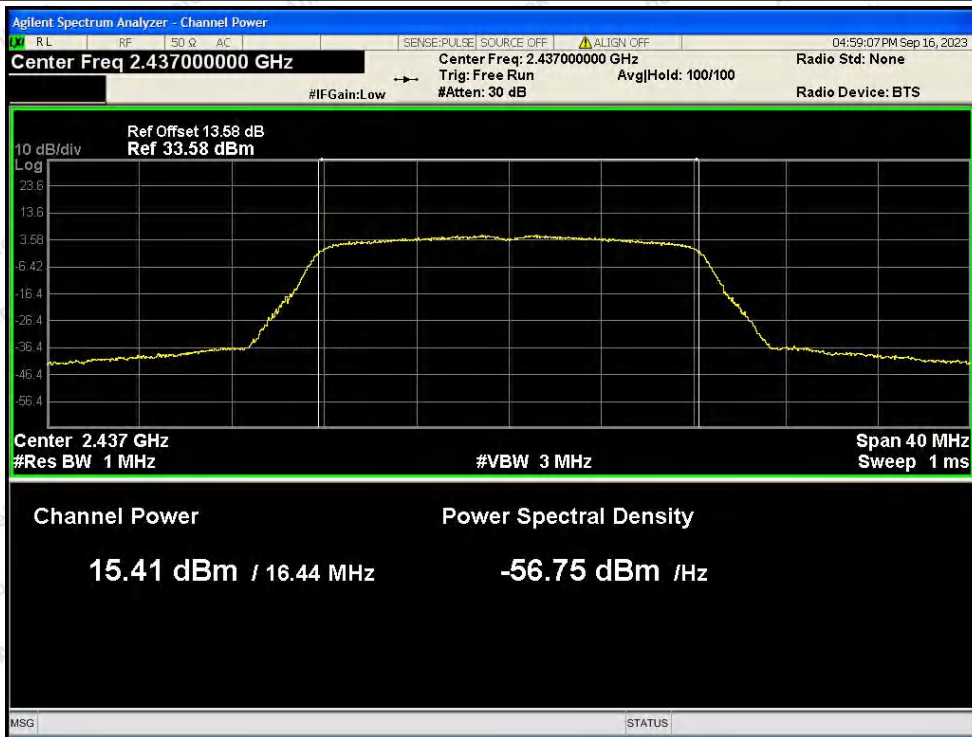
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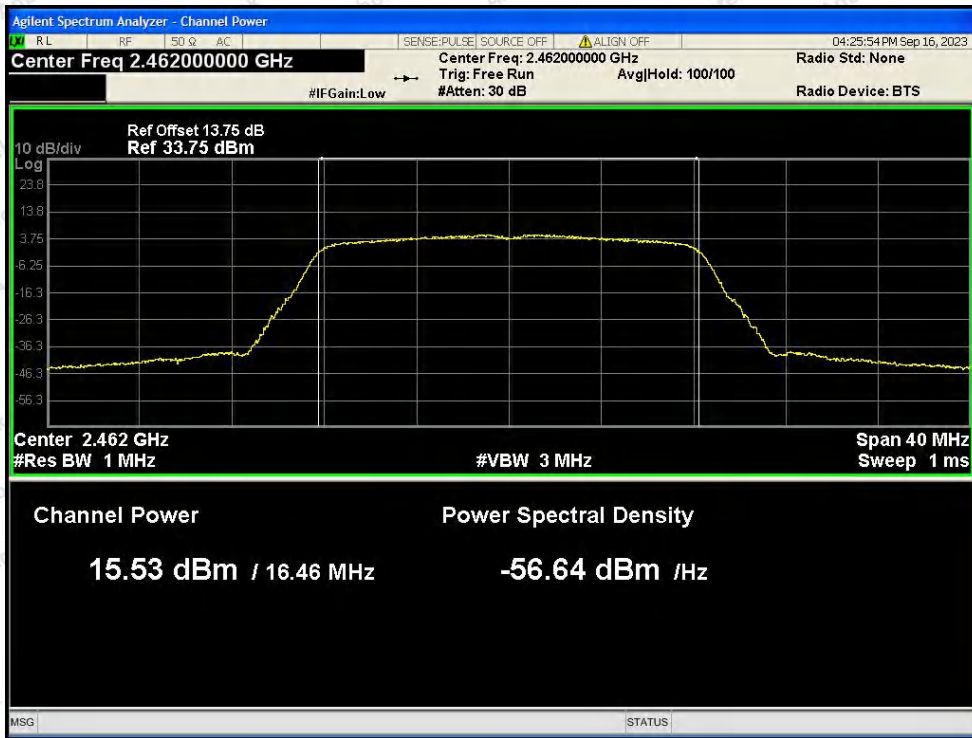
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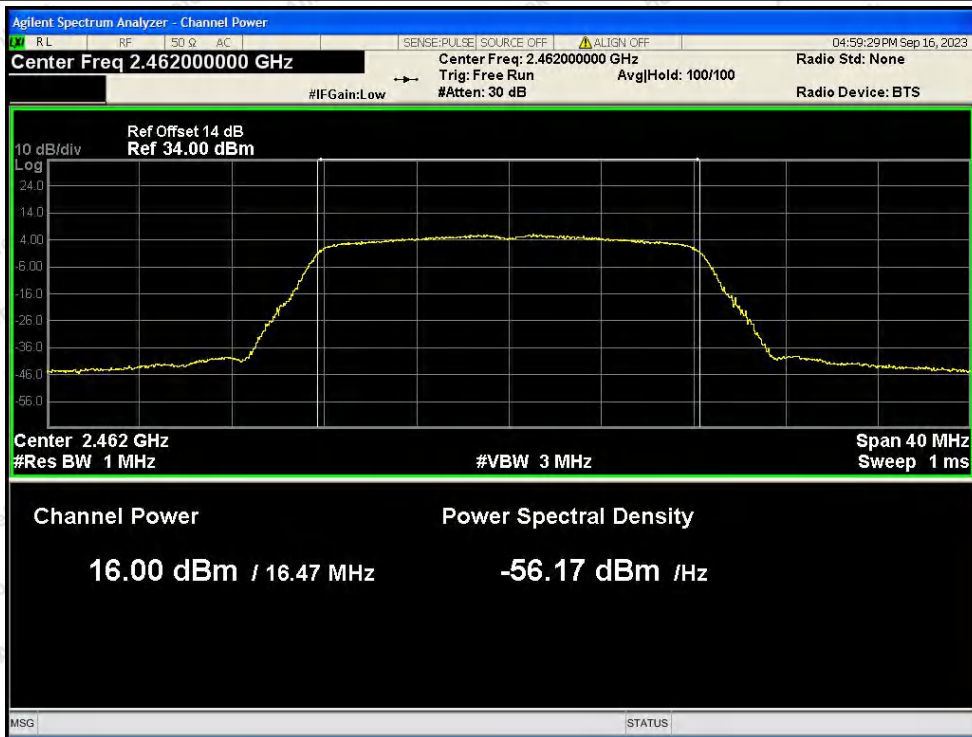
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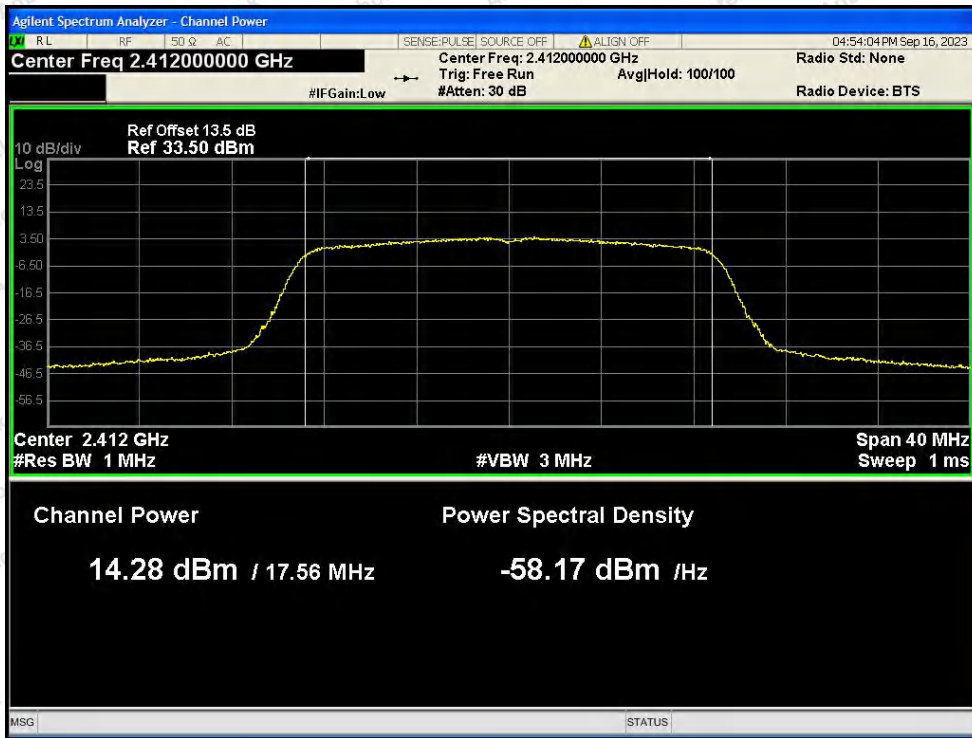
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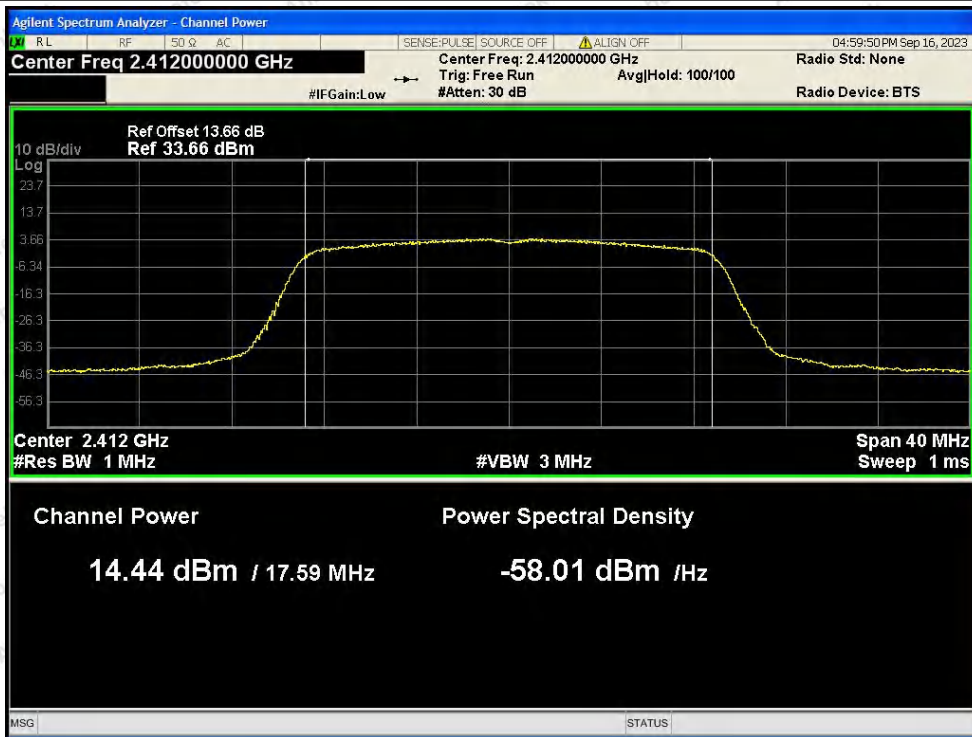
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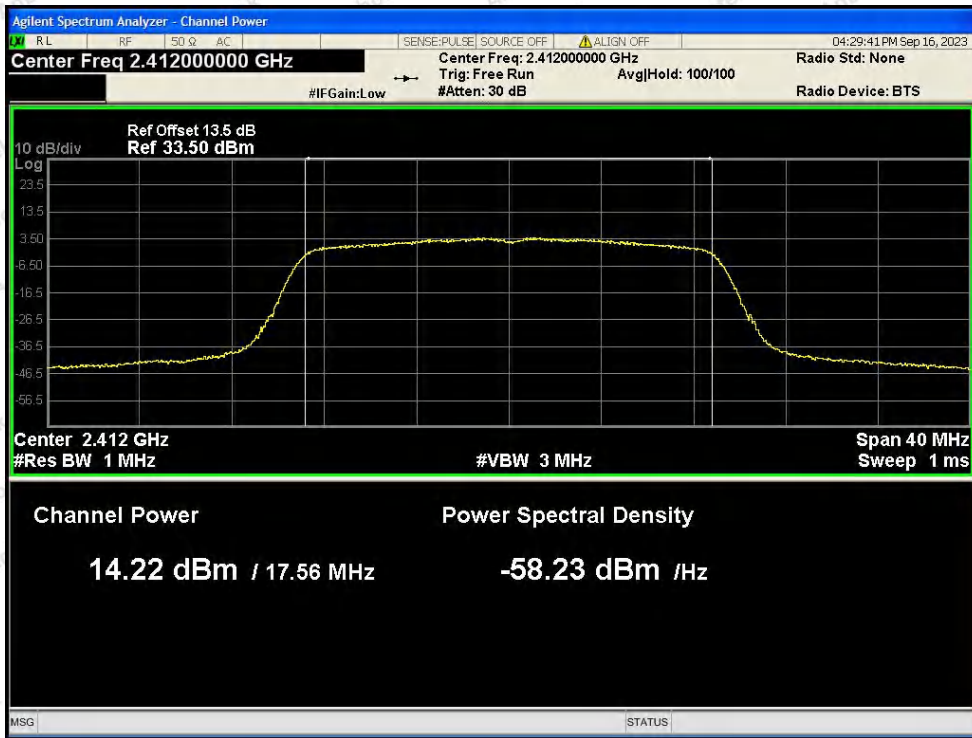
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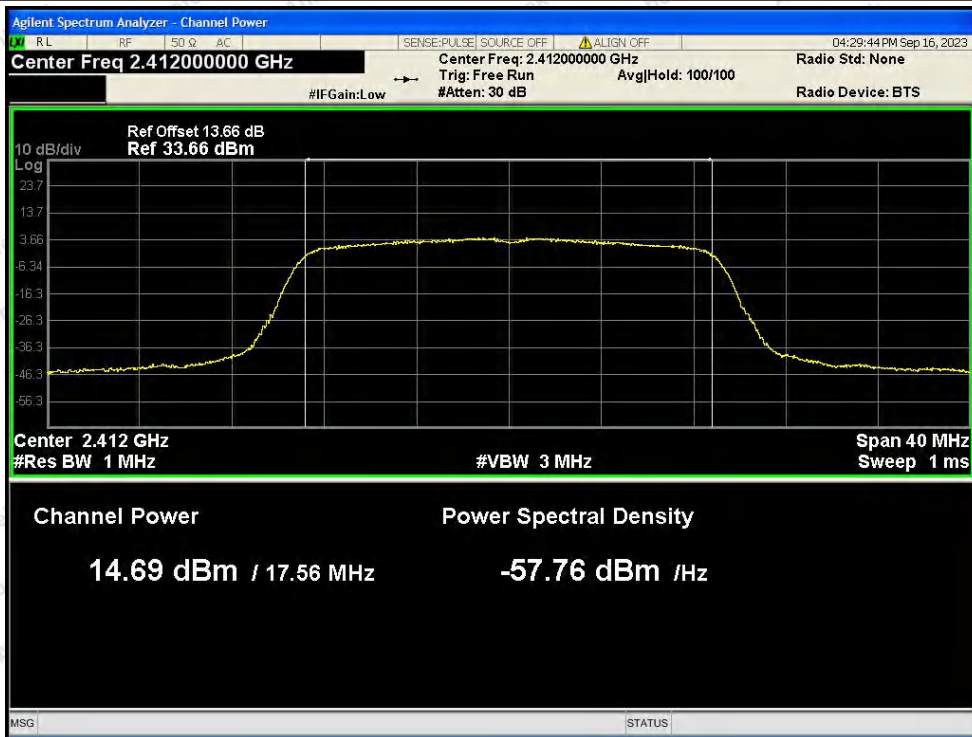
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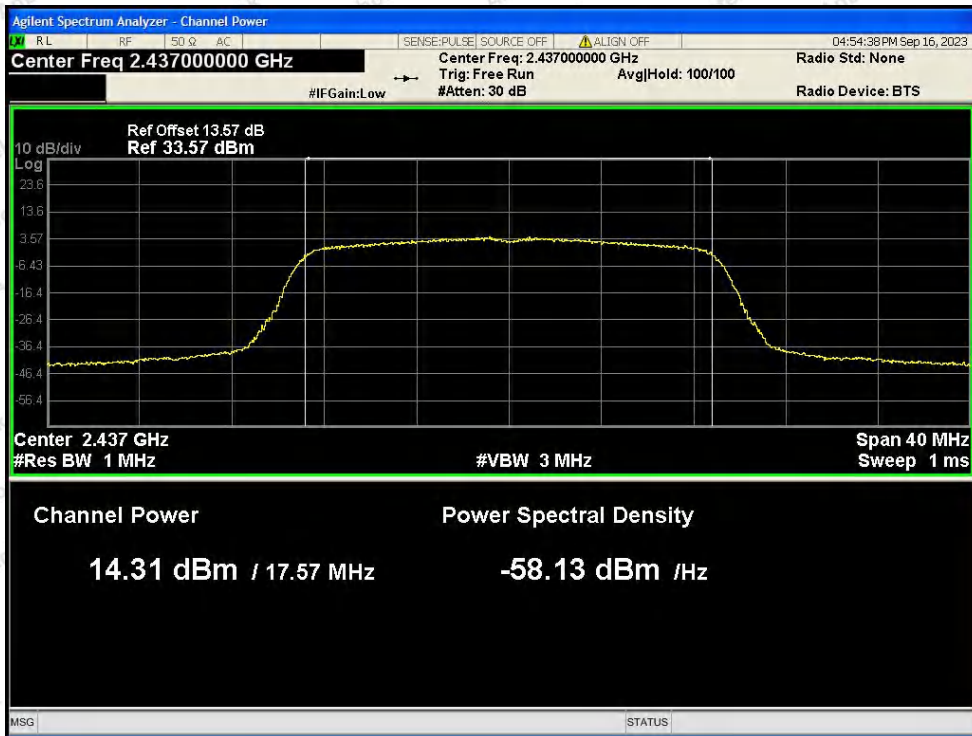
Average Power NVNT n20 2412MHz Ant0 MIMO



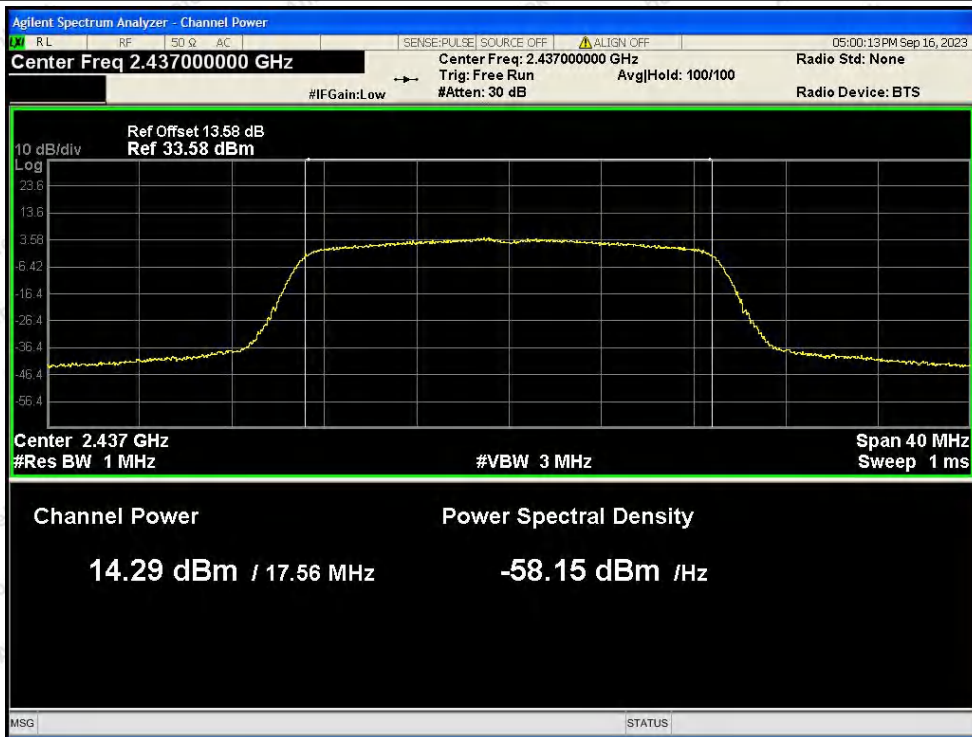
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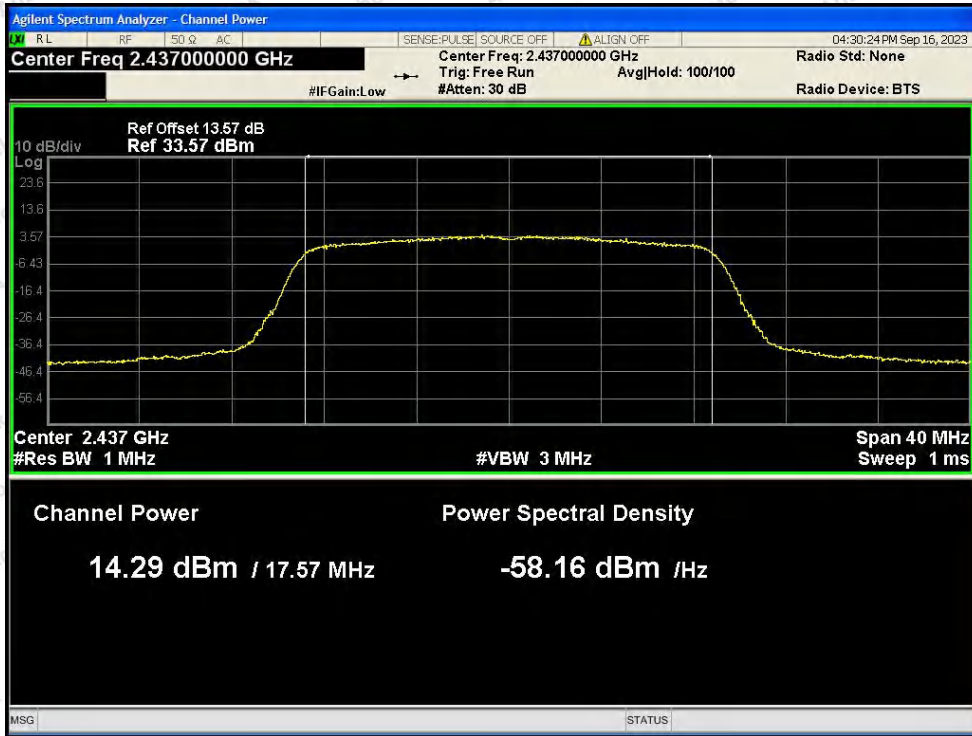
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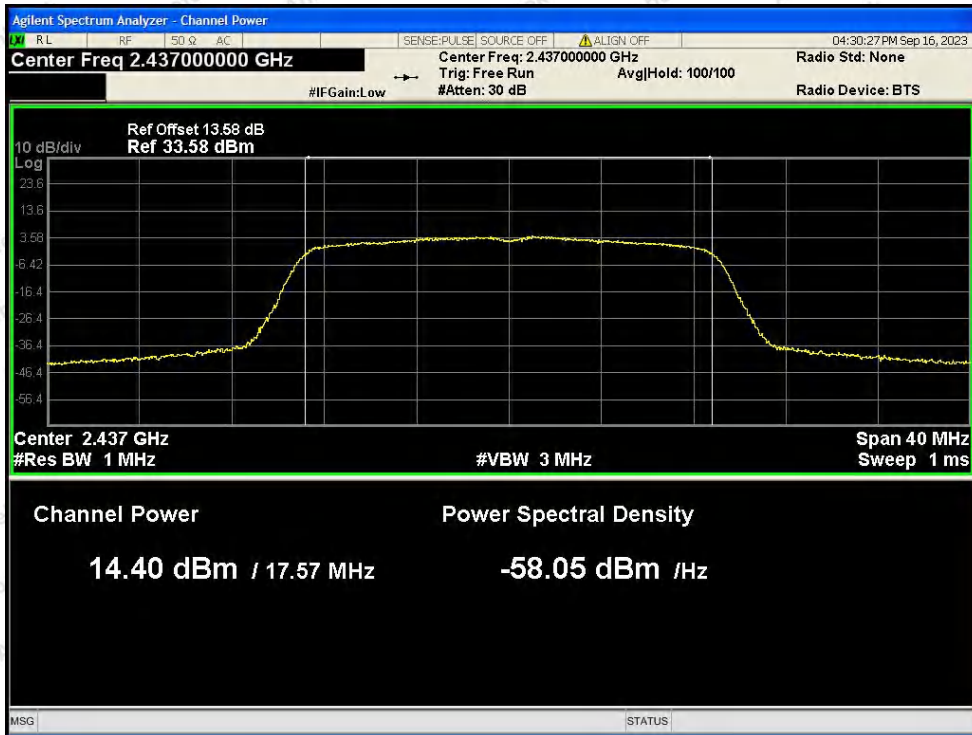
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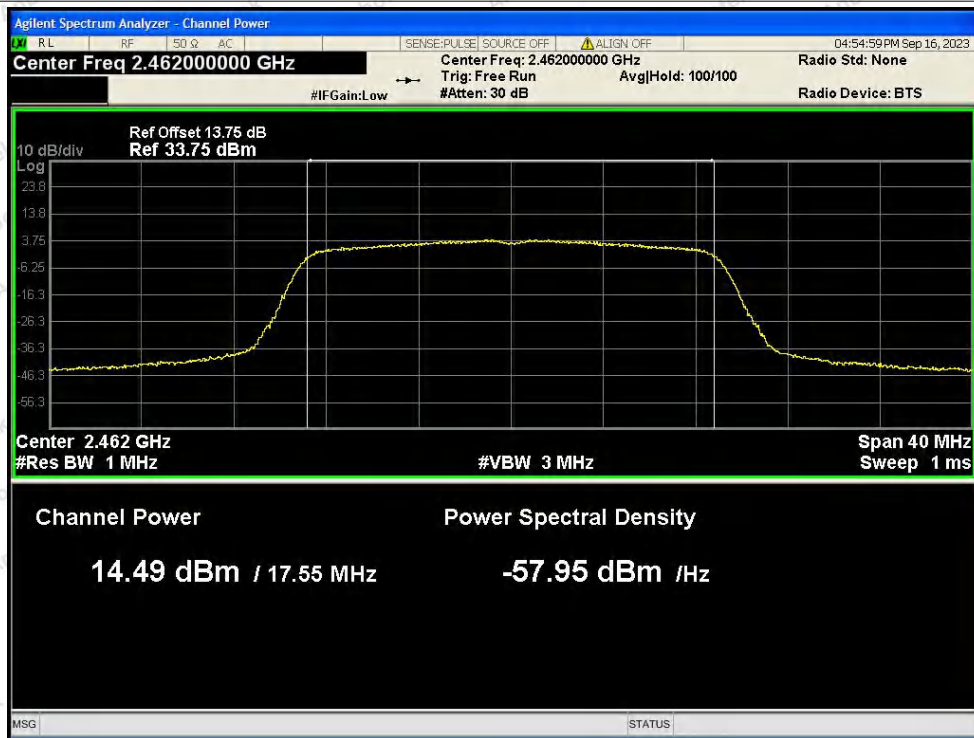
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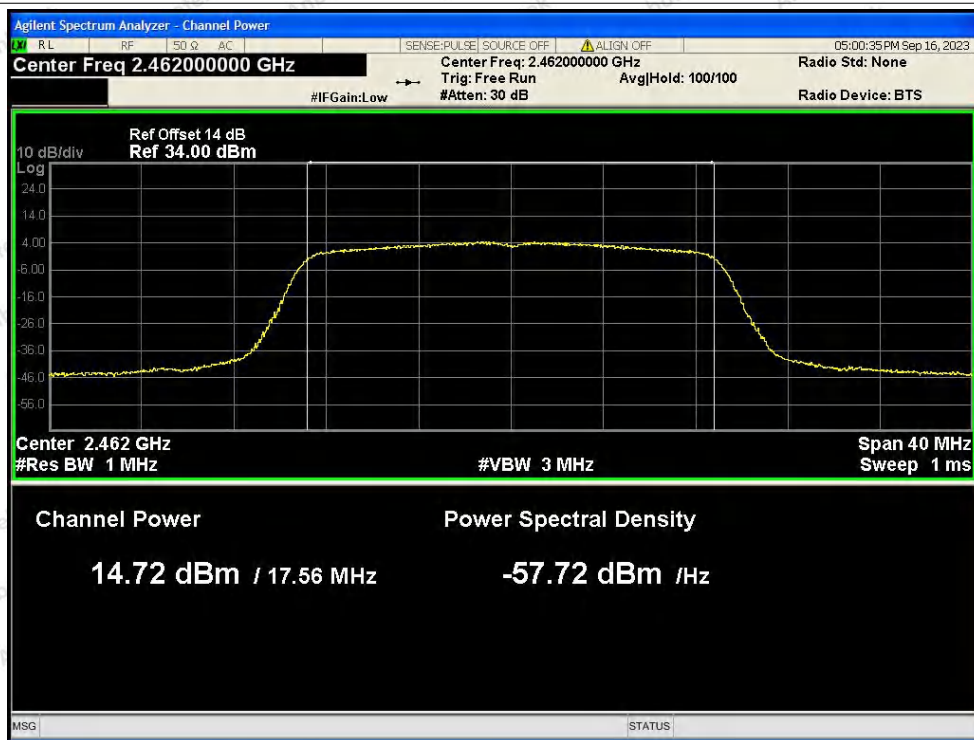
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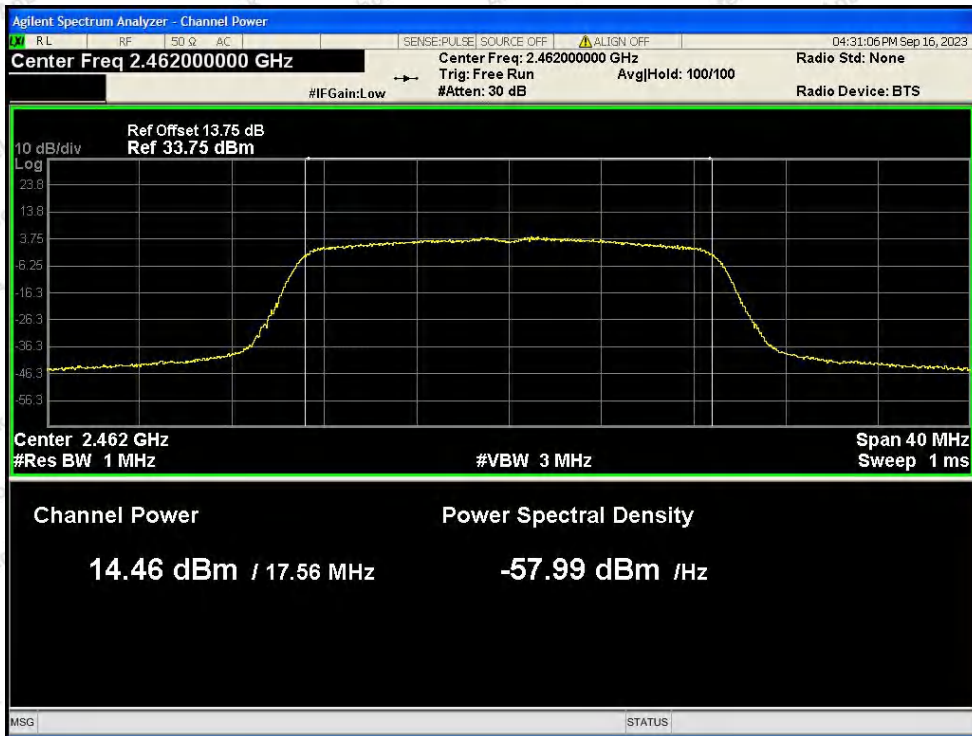
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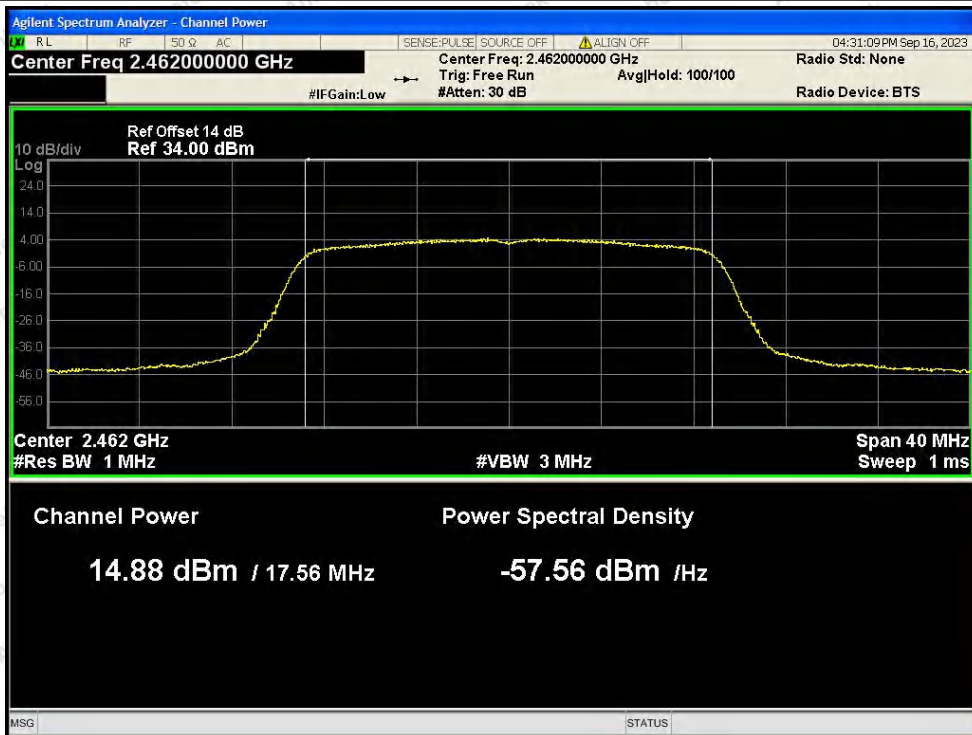
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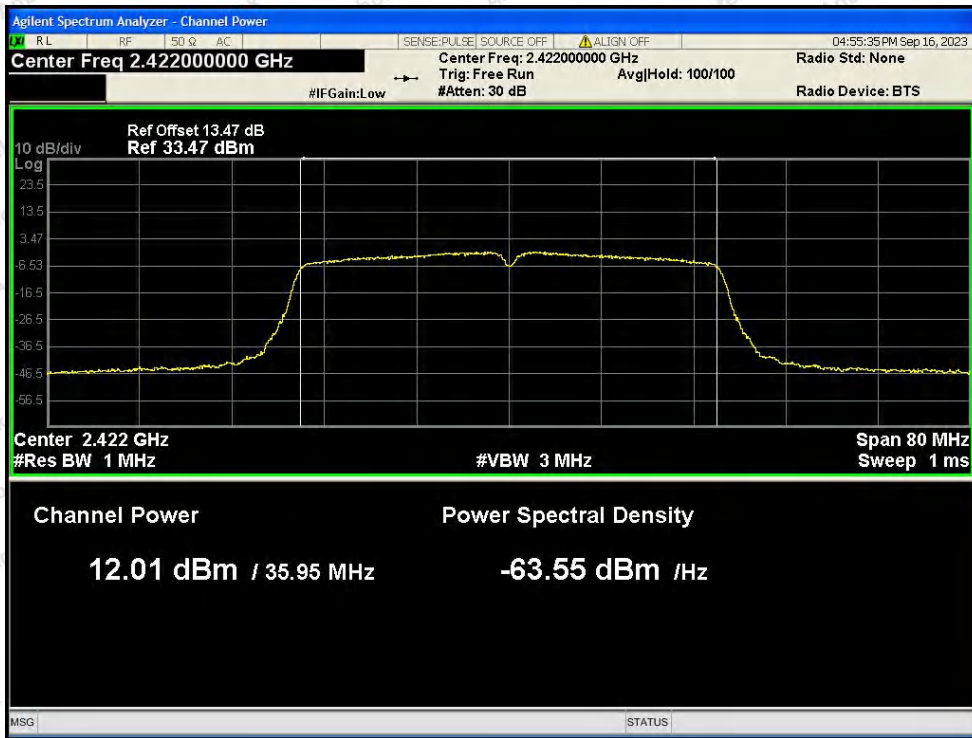
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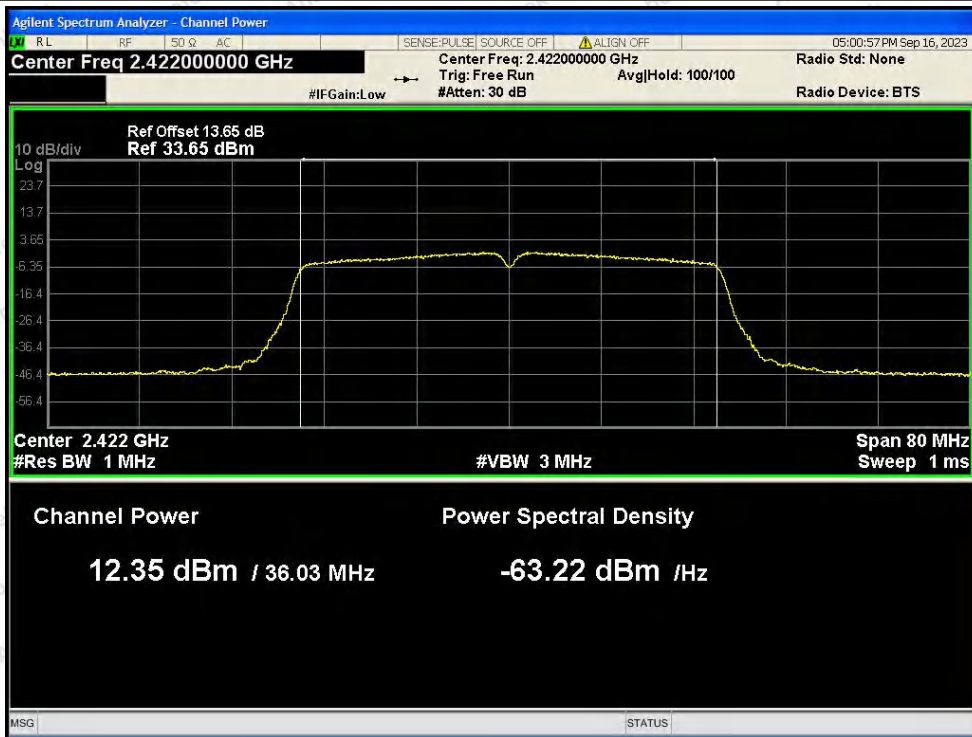
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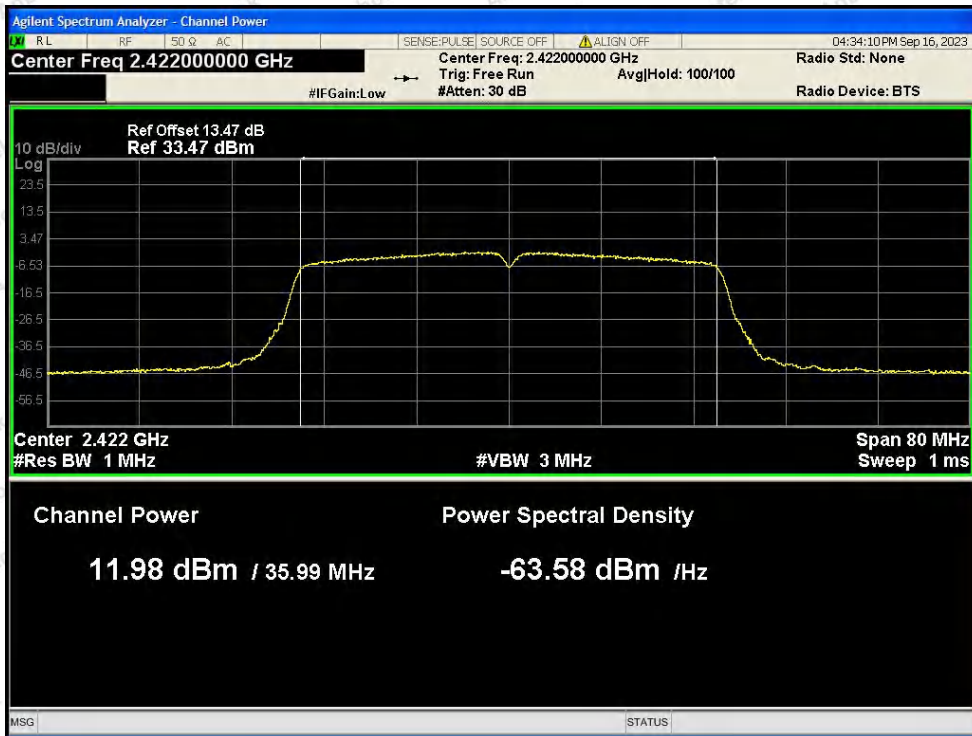
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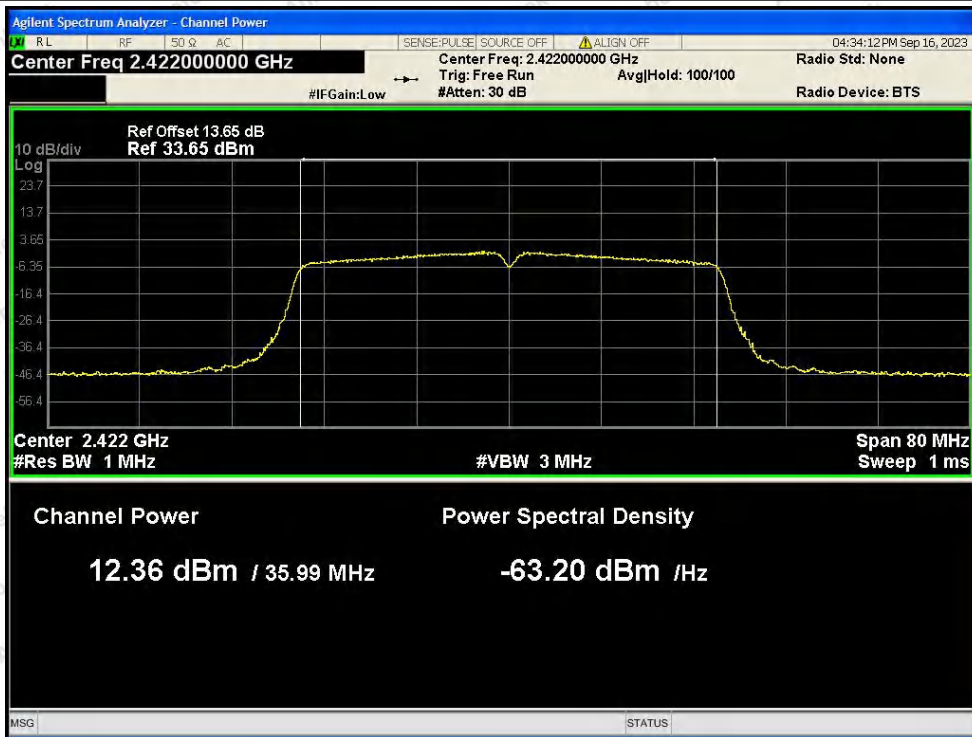
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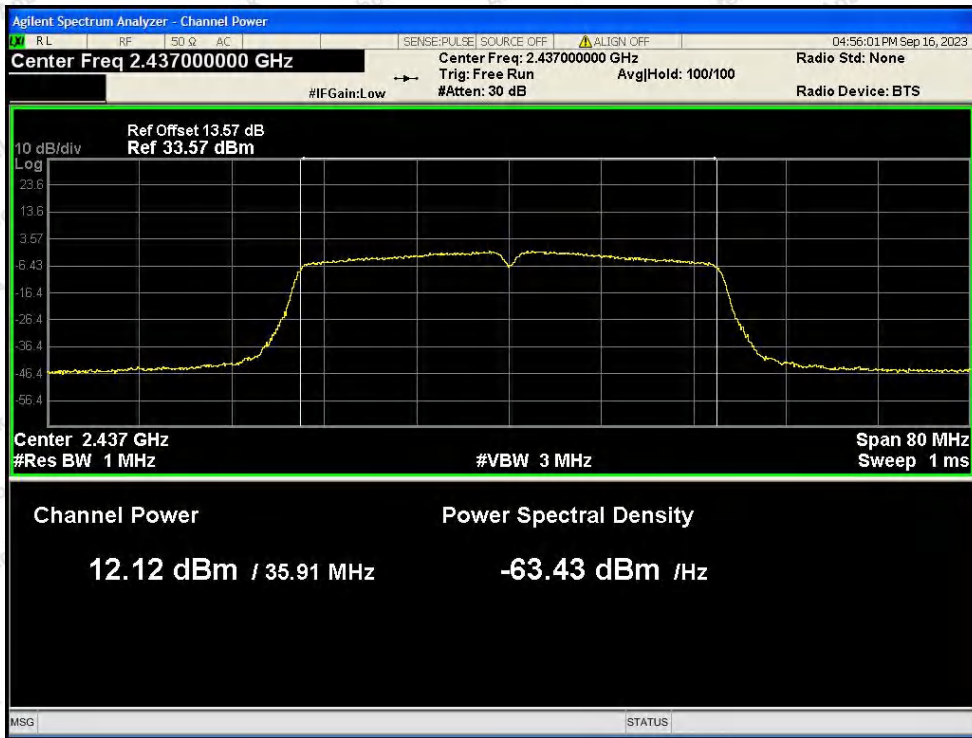
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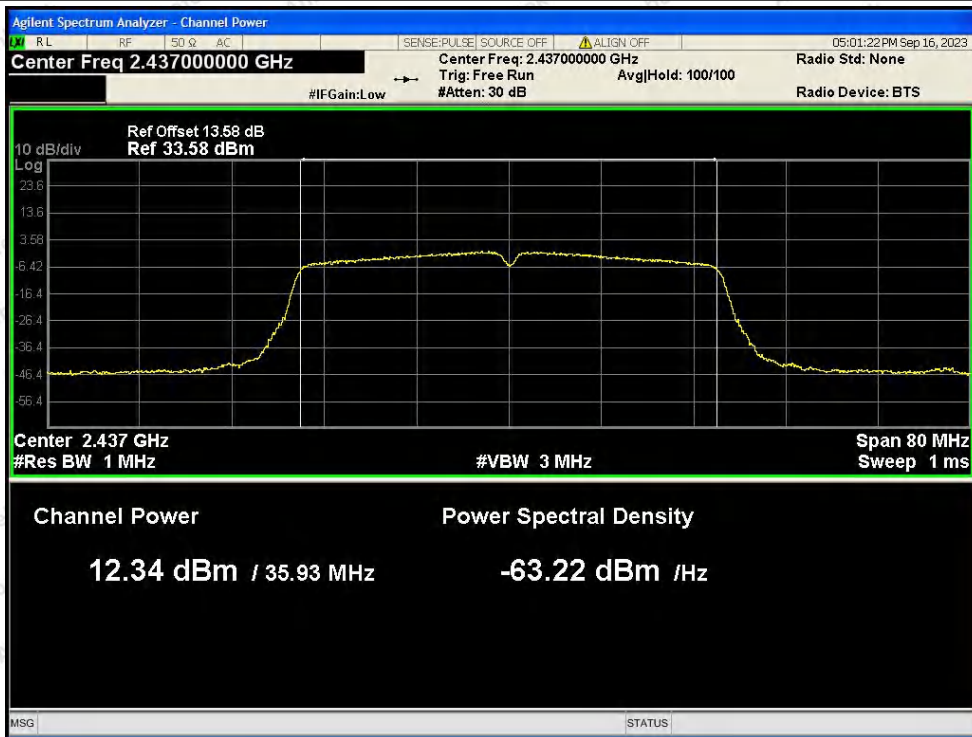
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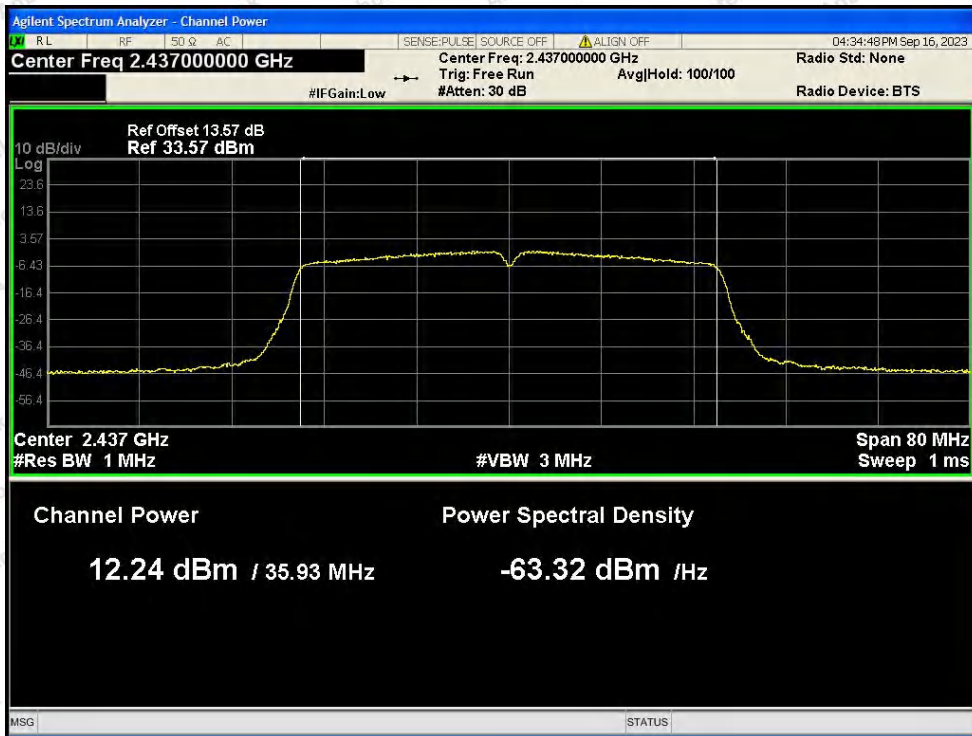
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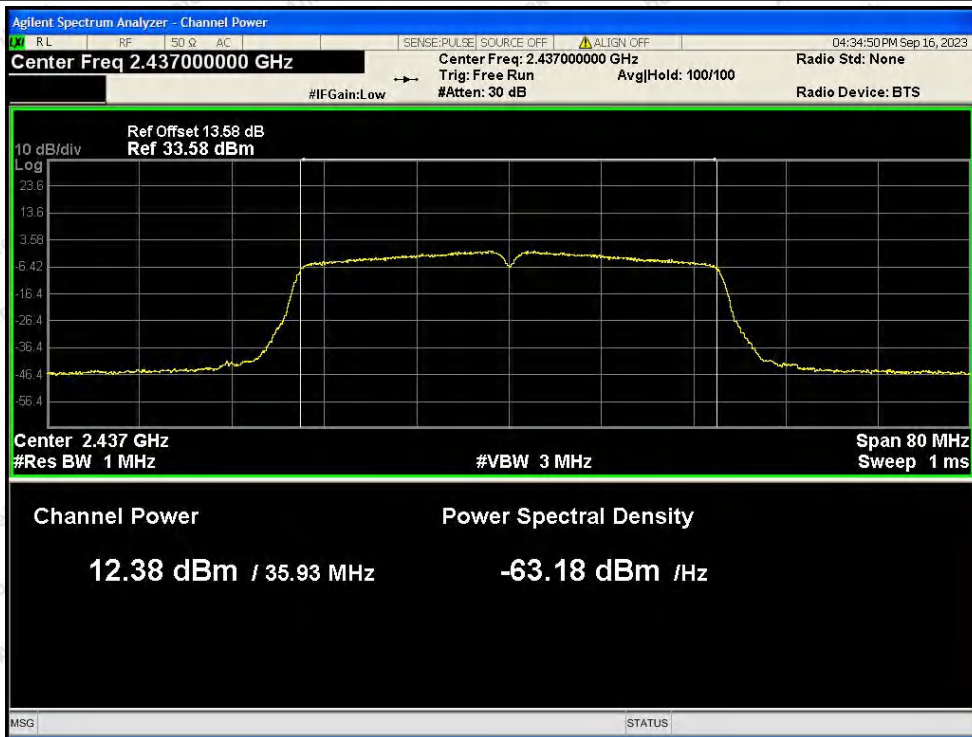
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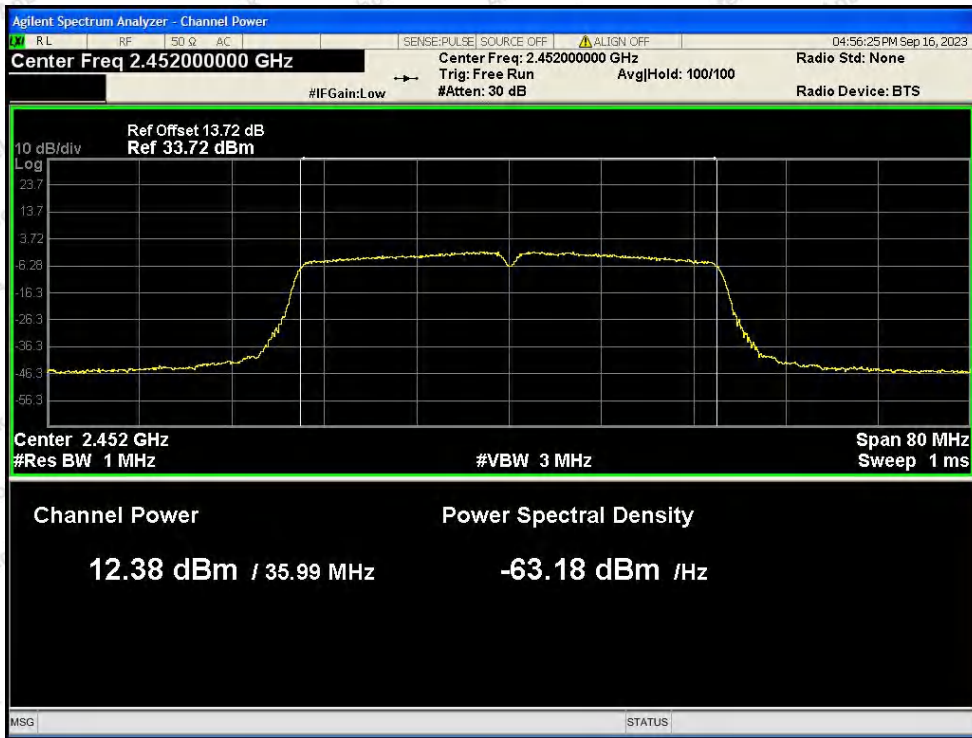
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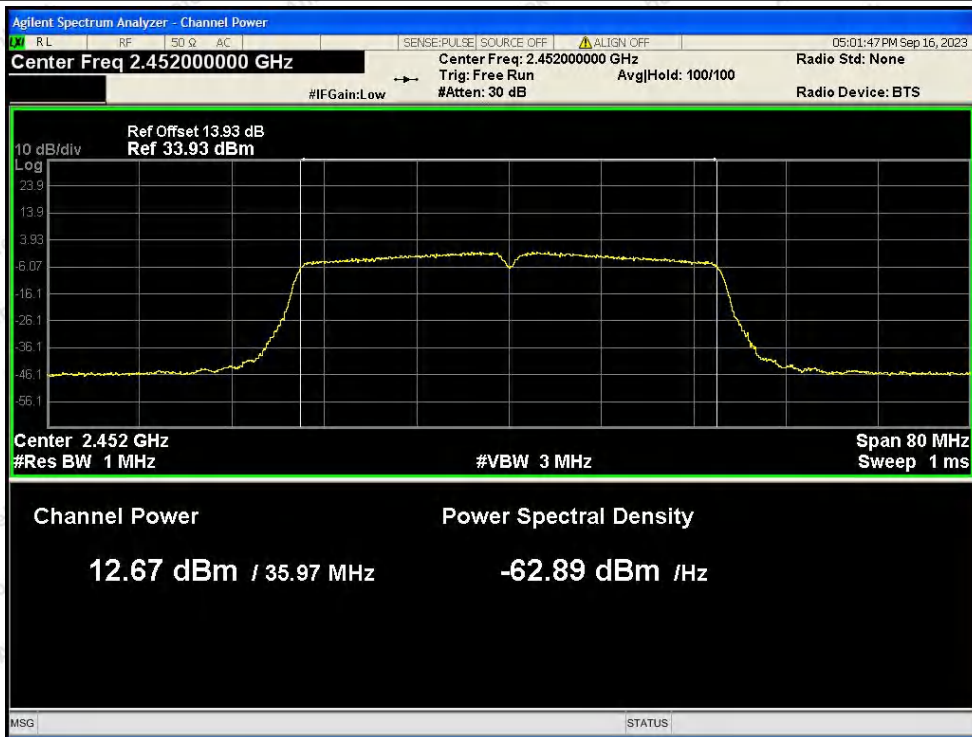
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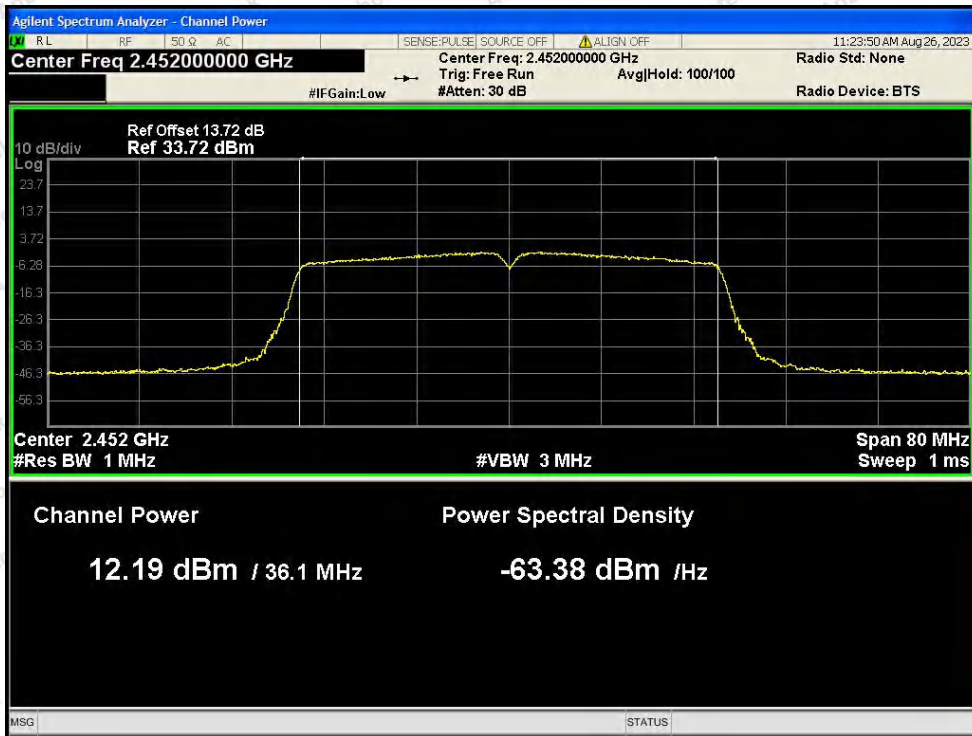
Average Power NVNT n40 2452MHz Ant0 SISO



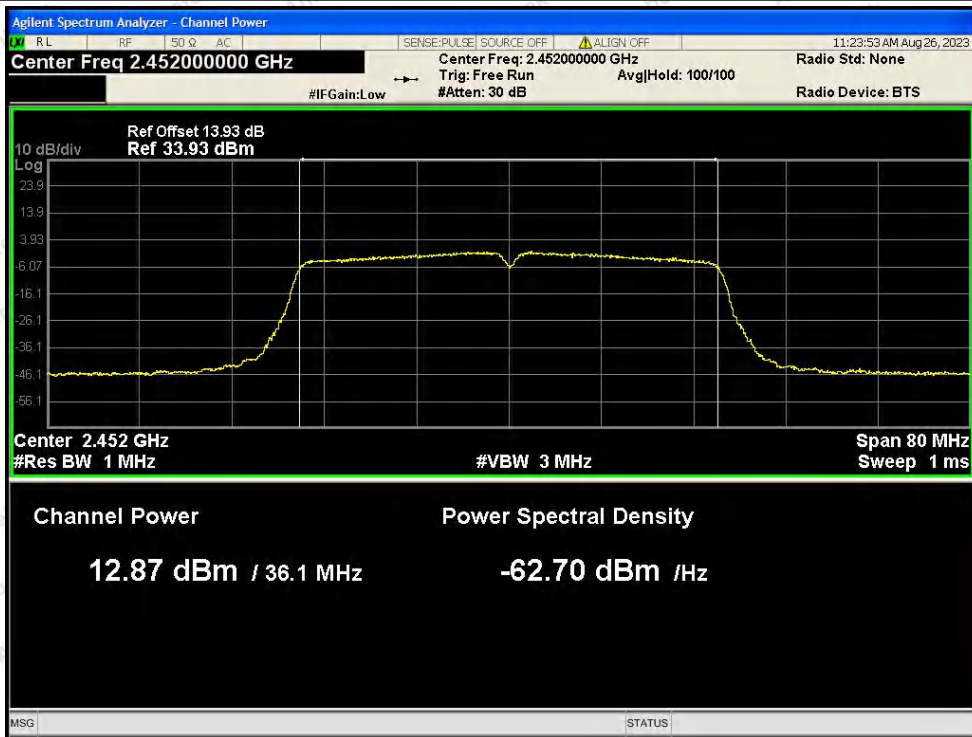
Average Power NVNT n40 2452MHz Ant1 SISO



Average Power NVNT n40 2452MHz Ant0 MIMO



Average Power NVNT n40 2452MHz Ant1 MIMO



6 dB Bandwidth and 99% OBW

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit (MHz)	Verdict
NVNT	b SISO	2412	Ant0	9.001	0.5	Pass
NVNT	b SISO	2412	Ant1	9.061	0.5	Pass
NVNT	b SISO	2437	Ant0	8.595	0.5	Pass
NVNT	b SISO	2437	Ant1	9.03	0.5	Pass
NVNT	b SISO	2462	Ant0	8.072	0.5	Pass
NVNT	b SISO	2462	Ant1	9.063	0.5	Pass
NVNT	g SISO	2412	Ant0	14.999	0.5	Pass
NVNT	g SISO	2412	Ant1	15.051	0.5	Pass
NVNT	g SISO	2437	Ant0	13.829	0.5	Pass
NVNT	g SISO	2437	Ant1	15.419	0.5	Pass
NVNT	g SISO	2462	Ant0	13.517	0.5	Pass
NVNT	g SISO	2462	Ant1	13.869	0.5	Pass
NVNT	n20 SISO	2412	Ant0	15.005	0.5	Pass
NVNT	n20 SISO	2412	Ant1	15.152	0.5	Pass
NVNT	n20 MIMO	2412	Ant0	15.005	0.5	Pass
NVNT	n20 MIMO	2412	Ant1	15.725	0.5	Pass
NVNT	n20 SISO	2437	Ant0	12.528	0.5	Pass
NVNT	n20 SISO	2437	Ant1	15.101	0.5	Pass
NVNT	n20 MIMO	2437	Ant0	15.131	0.5	Pass
NVNT	n20 MIMO	2437	Ant1	15.07	0.5	Pass
NVNT	n20 SISO	2462	Ant0	15.005	0.5	Pass
NVNT	n20 SISO	2462	Ant1	14.215	0.5	Pass
NVNT	n20 MIMO	2462	Ant0	15.071	0.5	Pass
NVNT	n20 MIMO	2462	Ant1	16.651	0.5	Pass
NVNT	n40 SISO	2422	Ant0	35.1	0.5	Pass
NVNT	n40 SISO	2422	Ant1	35.099	0.5	Pass

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com.cn



	SISO					
NVNT	n40 MIMO	2422	Ant0	35.11	0.5	Pass
NVNT	n40 MIMO	2422	Ant1	33.76	0.5	Pass
NVNT	n40 SISO	2437	Ant0	35.128	0.5	Pass
NVNT	n40 SISO	2437	Ant1	35.085	0.5	Pass
NVNT	n40 MIMO	2437	Ant0	35.081	0.5	Pass
NVNT	n40 MIMO	2437	Ant1	35.077	0.5	Pass
NVNT	n40 SISO	2452	Ant0	35.015	0.5	Pass
NVNT	n40 SISO	2452	Ant1	35.043	0.5	Pass
NVNT	n40 MIMO	2452	Ant0	35.099	0.5	Pass
NVNT	n40 MIMO	2452	Ant1	34.439	0.5	Pass



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