

RF Test Data for 2.4G Wi-Fi (Conducted Measurements)

General Description of EUT	
EUT Name:	GenBook RK3588
Model:	GENBOOK-RK3588-X1
Sample ID:	HC-C-202406-0184-6-02
Environmental Conditions	
Ambient Temperature:	22.0℃-25℃
Ambient Humidity:	43%-55%
Test Power Supply:	DC 7.6V
Test Engineer:	Jolin Lee
Note: For a more detailed features description, please refer to the report TBR-C-202406-0184-132 The report only show the worst case data.	

Contents

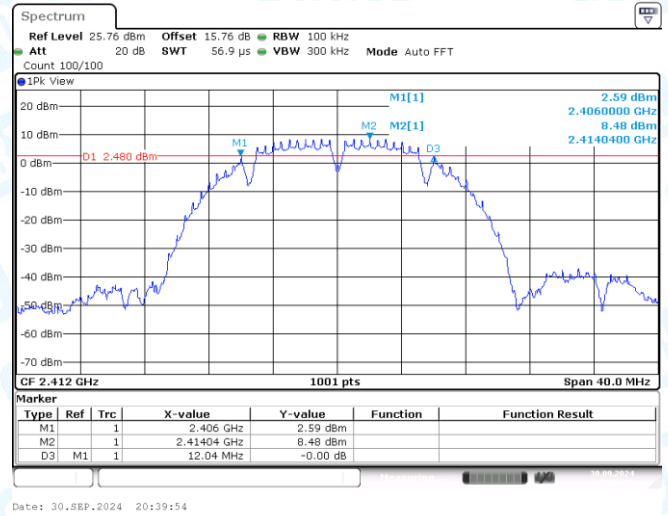
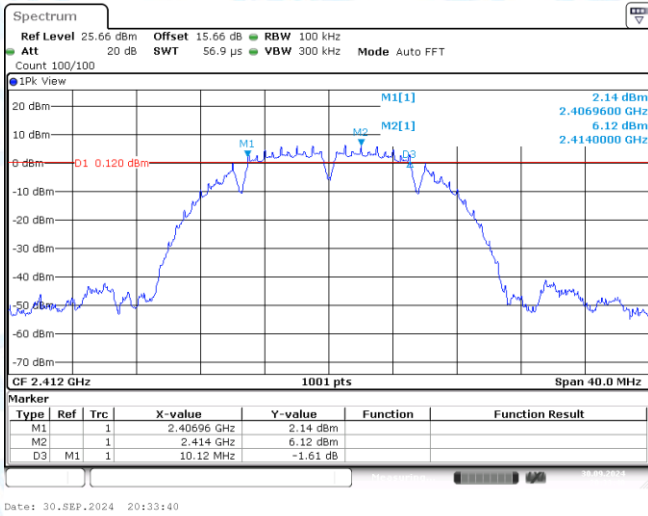
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1. DTS Bandwidth

1.1 Test Result

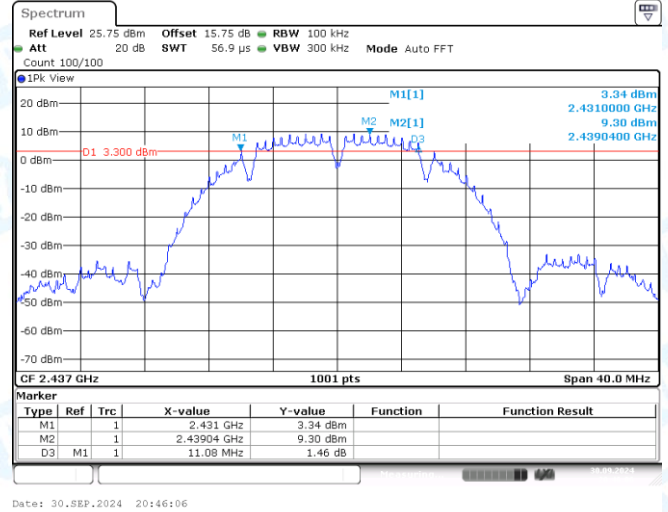
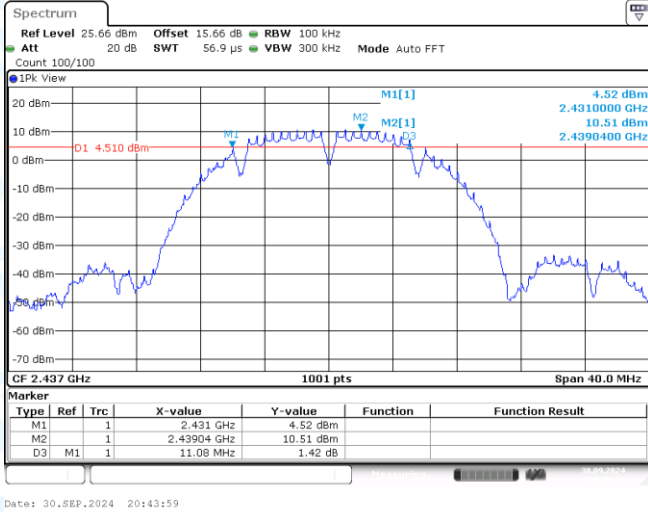
TestMode	Ant.	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	10.12	2406.96	2417.08	0.5	PASS
11B-CDD	Ant2	2412	12.04	2406.00	2418.04	0.5	PASS
11B-CDD	Ant1	2437	11.08	2431.00	2442.08	0.5	PASS
11B-CDD	Ant2	2437	11.08	2431.00	2442.08	0.5	PASS
11B-CDD	Ant1	2462	10.12	2456.96	2467.08	0.5	PASS
11B-CDD	Ant2	2462	11.08	2456.00	2467.08	0.5	PASS
11G-CDD	Ant1	2412	16.32	2403.84	2420.16	0.5	PASS
11G-CDD	Ant2	2412	16.32	2403.84	2420.16	0.5	PASS
11G-CDD	Ant1	2437	16.32	2428.84	2445.16	0.5	PASS
11G-CDD	Ant2	2437	16.32	2428.84	2445.16	0.5	PASS
11G-CDD	Ant1	2462	16.32	2453.84	2470.16	0.5	PASS
11G-CDD	Ant2	2462	16.32	2453.84	2470.16	0.5	PASS
11N20MIMO	Ant1	2412	17.32	2403.24	2420.56	0.5	PASS
11N20MIMO	Ant2	2412	17.32	2403.24	2420.56	0.5	PASS
11N20MIMO	Ant1	2437	17.36	2428.20	2445.56	0.5	PASS
11N20MIMO	Ant2	2437	17.32	2428.24	2445.56	0.5	PASS
11N20MIMO	Ant1	2462	17.32	2453.20	2470.52	0.5	PASS
11N20MIMO	Ant2	2462	17.56	2453.20	2470.76	0.5	PASS
11N40MIMO	Ant1	2422	35.52	2404.40	2439.92	0.5	PASS
11N40MIMO	Ant2	2422	35.52	2404.40	2439.92	0.5	PASS
11N40MIMO	Ant1	2437	35.68	2419.24	2454.92	0.5	PASS
11N40MIMO	Ant2	2437	35.52	2419.40	2454.92	0.5	PASS
11N40MIMO	Ant1	2452	35.76	2433.84	2469.60	0.5	PASS
11N40MIMO	Ant2	2452	35.52	2434.24	2469.76	0.5	PASS
11AX20MIMO	Ant1	2412	18.32	2402.68	2421.00	0.5	PASS
11AX20MIMO	Ant2	2412	18.28	2402.68	2420.96	0.5	PASS
11AX20MIMO	Ant1	2437	18.20	2427.80	2446.00	0.5	PASS
11AX20MIMO	Ant2	2437	18.04	2427.76	2445.80	0.5	PASS
11AX20MIMO	Ant1	2462	18.20	2452.60	2470.80	0.5	PASS
11AX20MIMO	Ant2	2462	18.32	2452.64	2470.96	0.5	PASS
11AX40MIMO	Ant1	2422	37.68	2403.12	2440.80	0.5	PASS
11AX40MIMO	Ant2	2422	37.68	2403.20	2440.88	0.5	PASS
11AX40MIMO	Ant1	2437	37.76	2418.12	2455.88	0.5	PASS
11AX40MIMO	Ant2	2437	37.76	2418.12	2455.88	0.5	PASS
11AX40MIMO	Ant1	2452	37.76	2433.12	2470.88	0.5	PASS
11AX40MIMO	Ant2	2452	37.76	2433.12	2470.88	0.5	PASS

1.2 Test Graphs



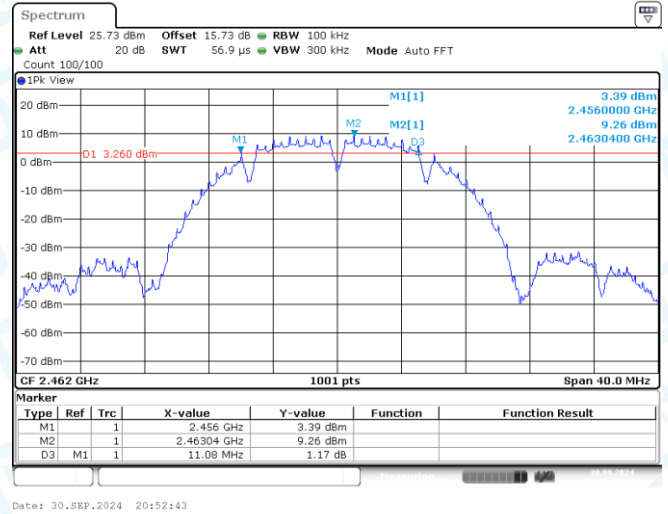
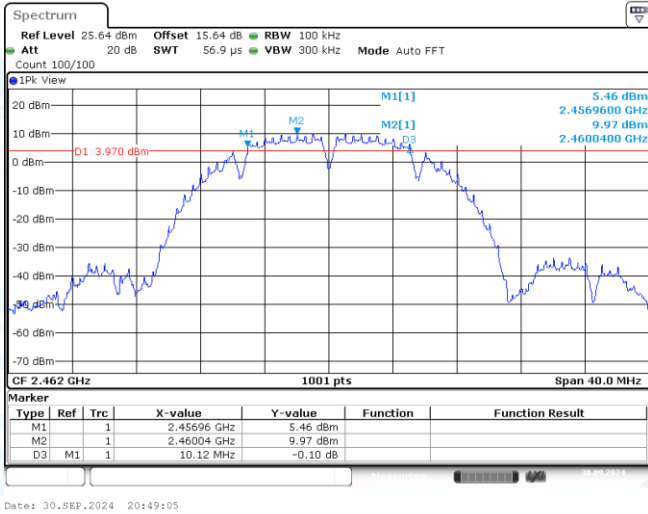
11B-CDD-Ant1-2412-PASS

11B-CDD-Ant2-2412-PASS



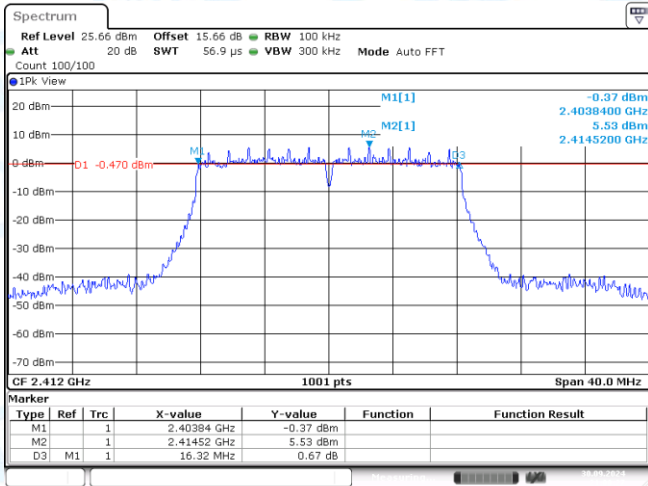
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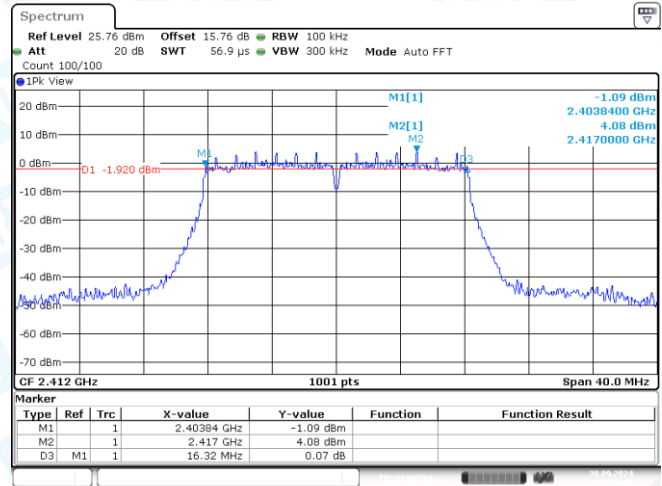
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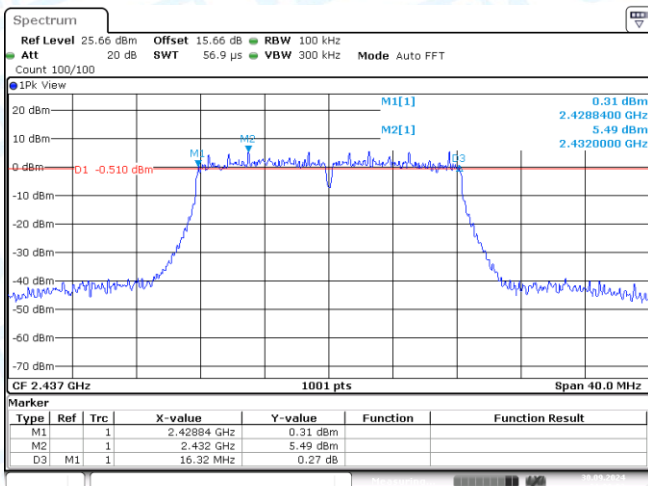
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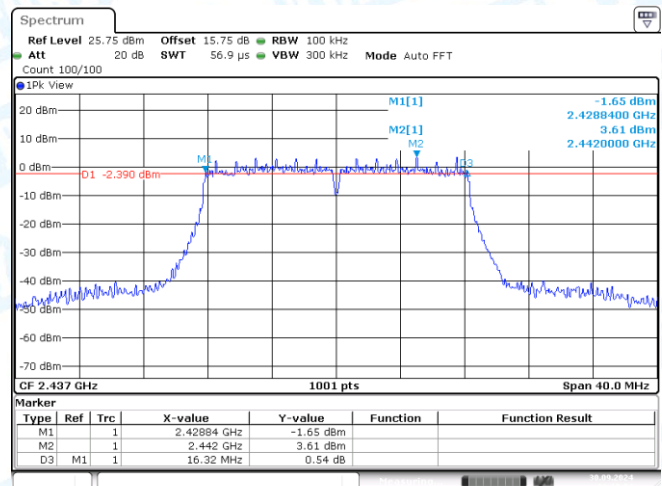
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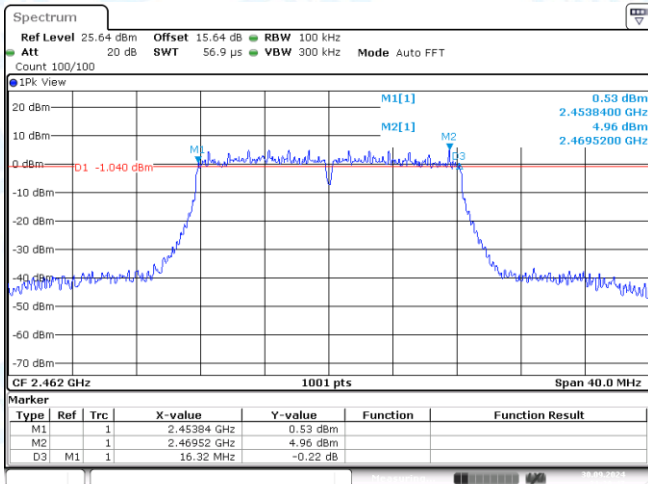
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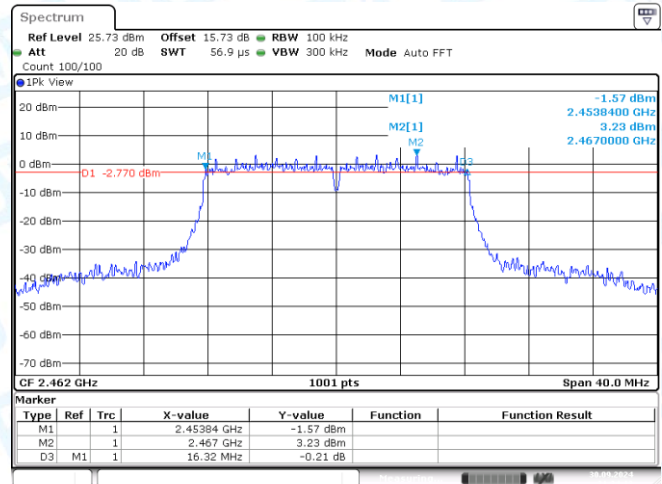
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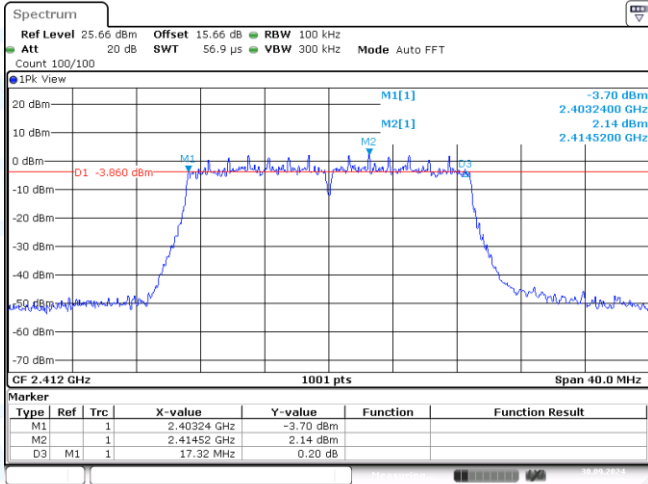
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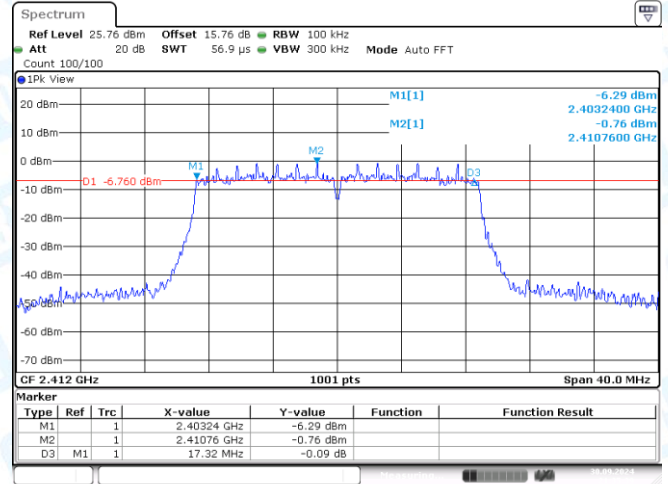


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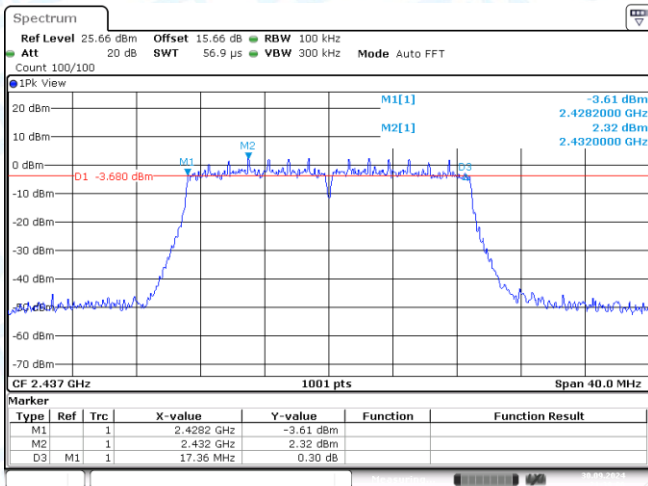
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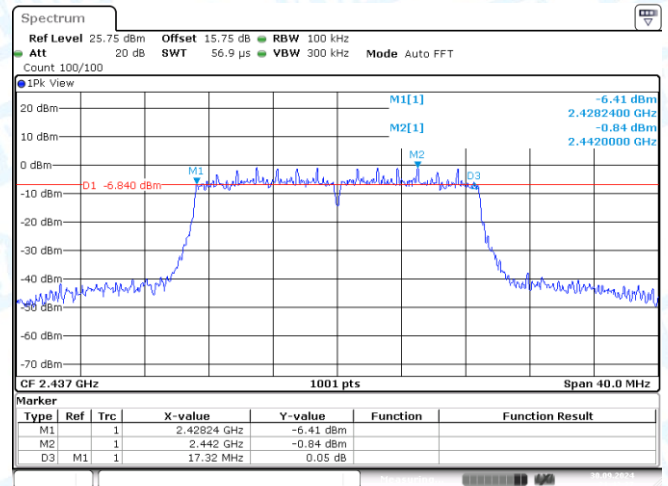
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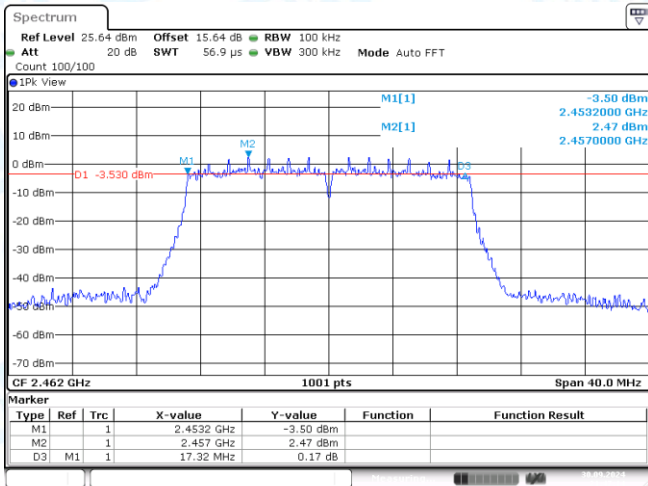
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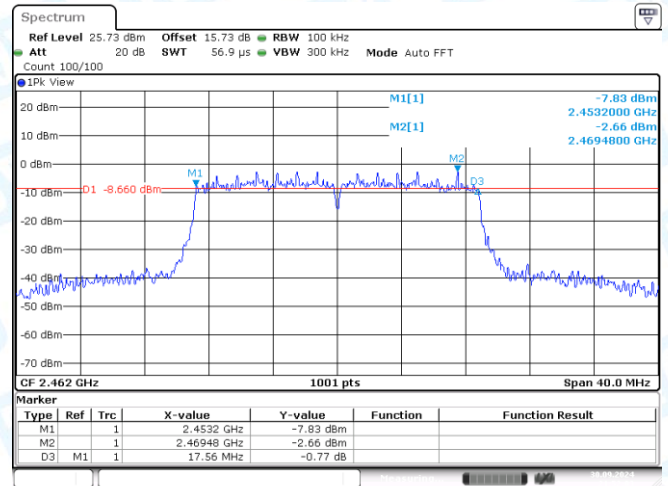
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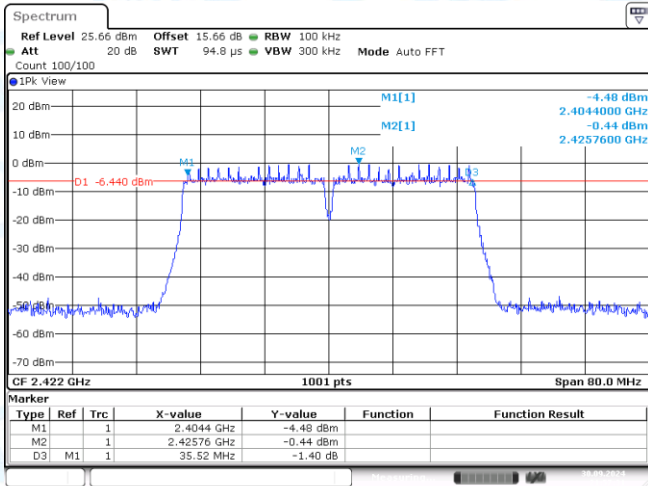
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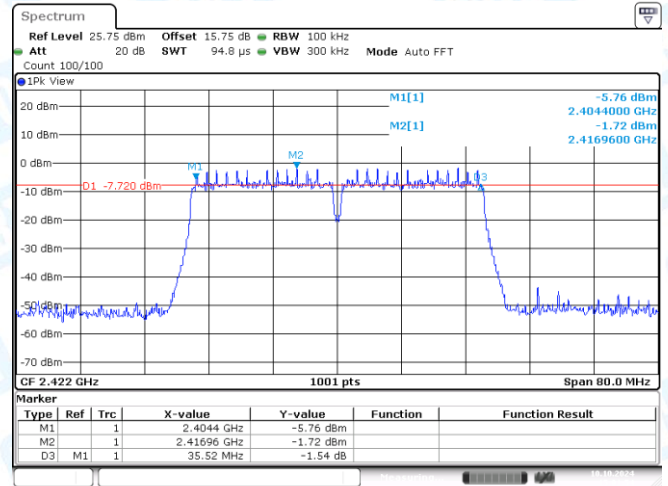
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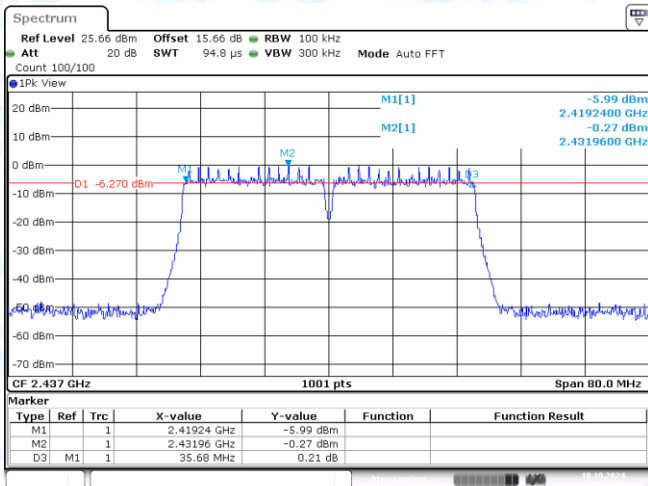
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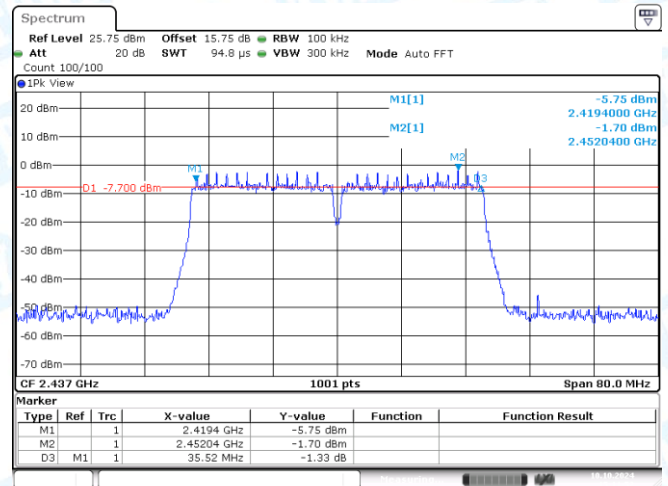
11N40MIMO-Ant1-2422-PASS



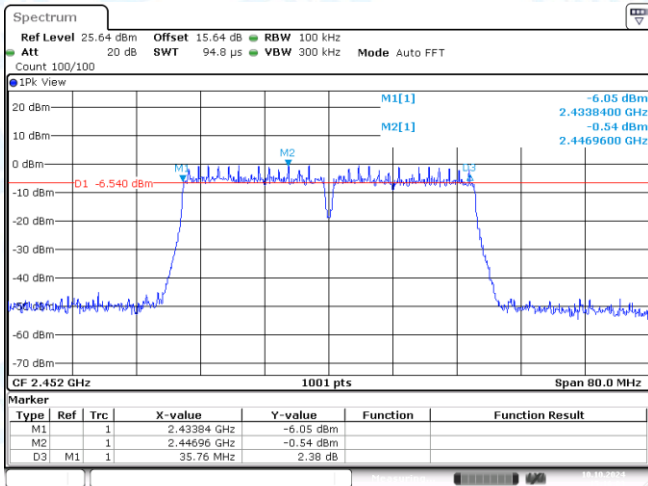
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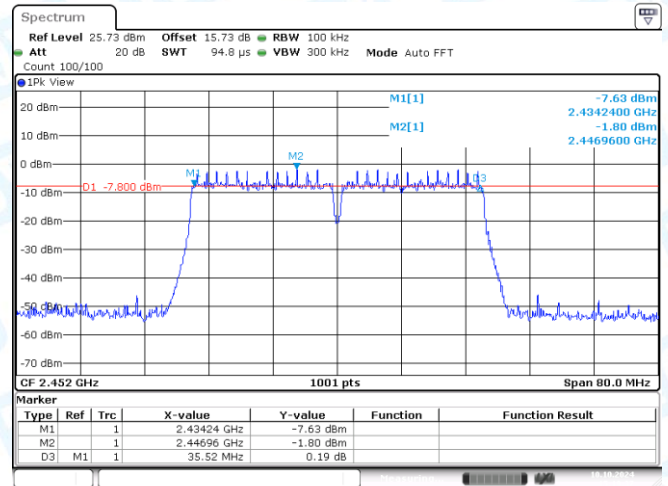
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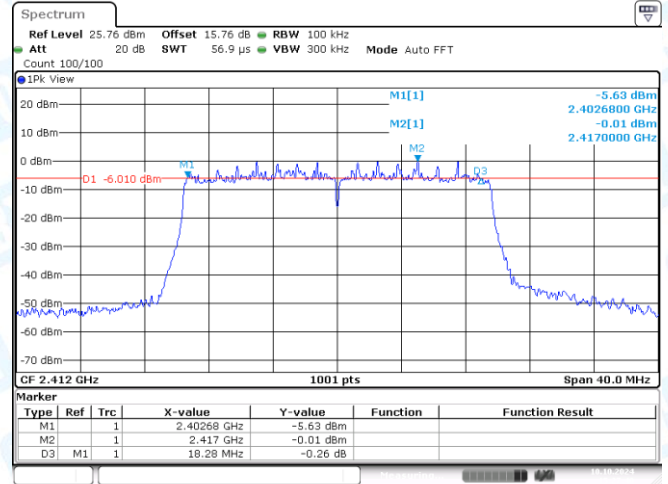
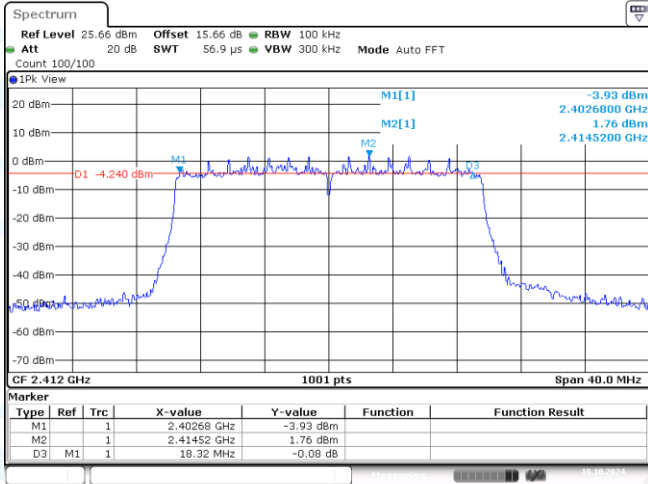
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11N40MIMO-Ant1-2452-PASS

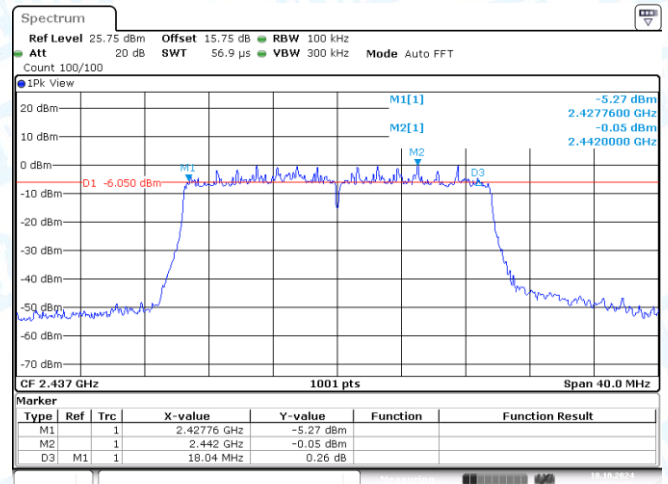
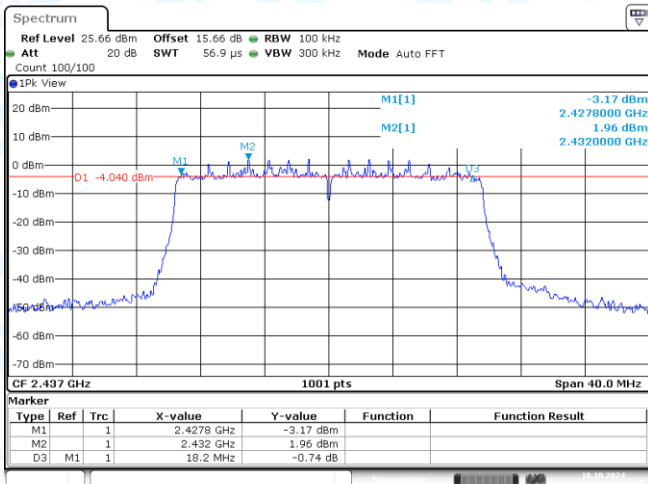


11N40MIMO-Ant2-2452-PASS



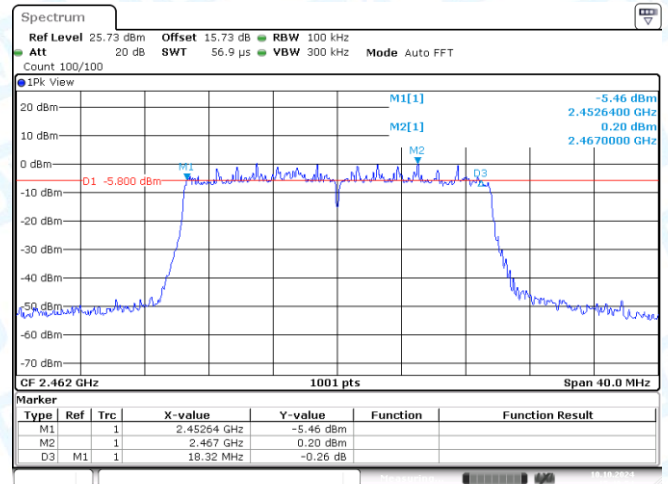
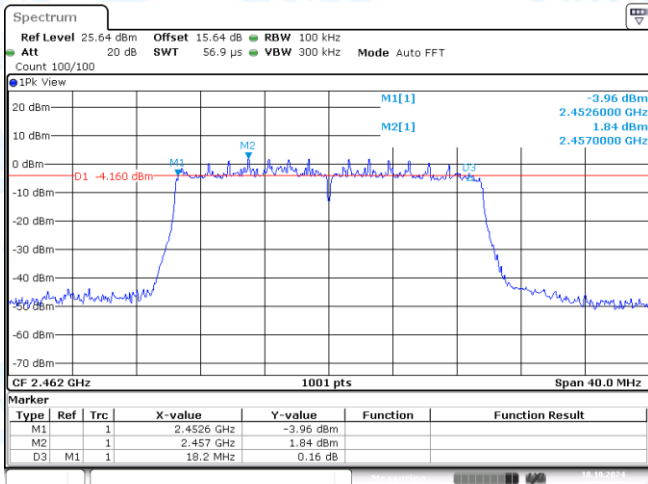
11AX20MIMO-Ant1-2412-PASS

11AX20MIMO-Ant2-2412-PASS



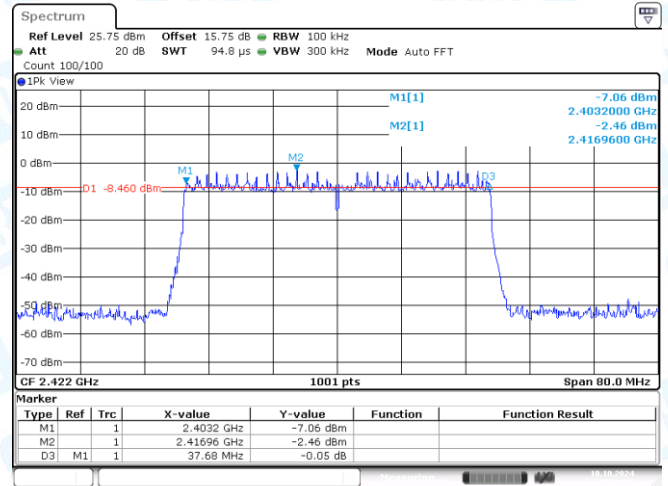
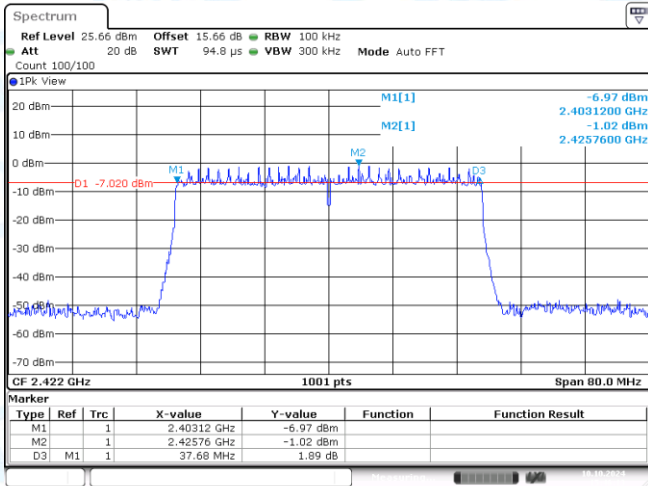
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11AX20MIMO-Ant2-2437-PASS



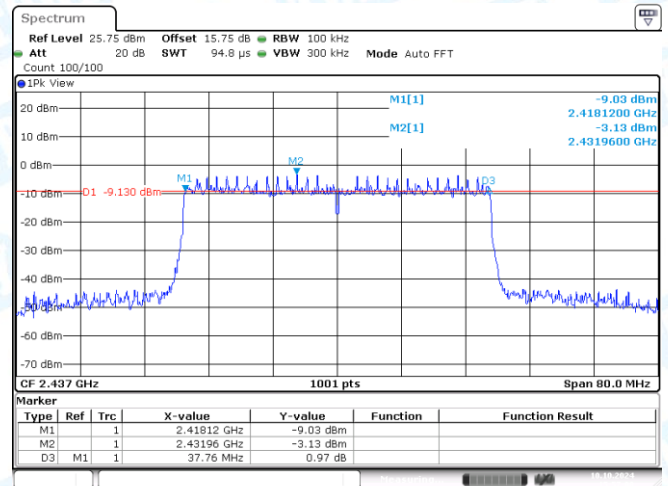
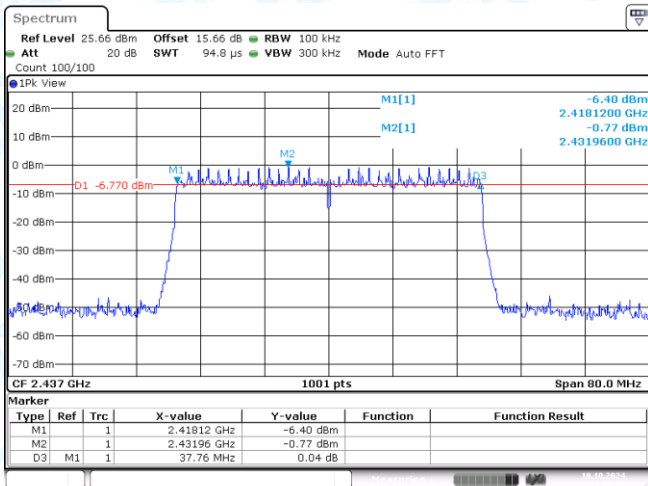
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11AX20MIMO-Ant2-2462-PASS



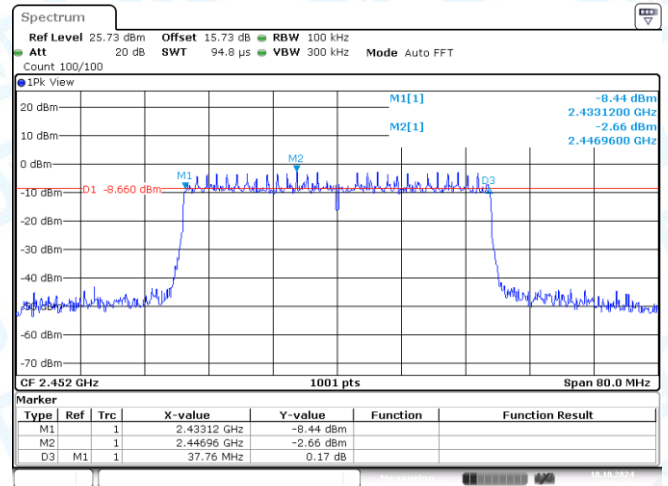
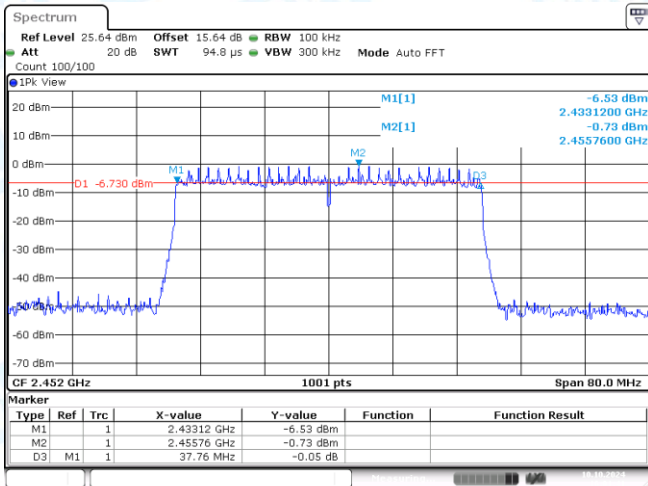
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11AX40MIMO-Ant2-2422-PASS



11AX40MIMO-Ant1-2437-PASS

11AX40MIMO-Ant2-2437-PASS



11AX40MIMO-Ant1-2452-PASS

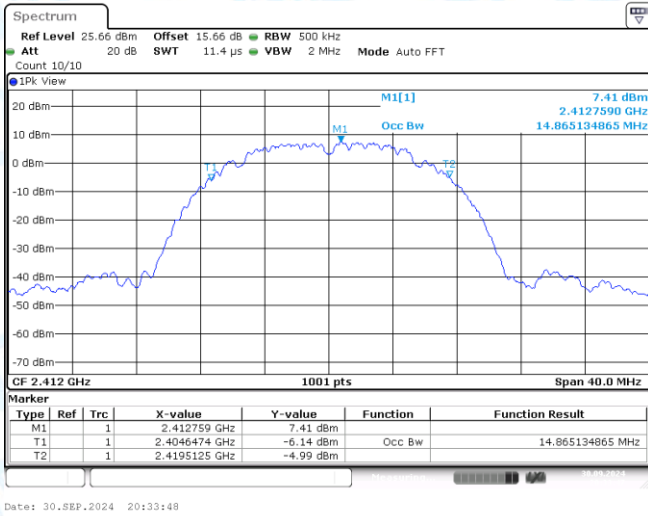
11AX40MIMO-Ant2-2452-PASS

2. Occupied Channel Bandwidth

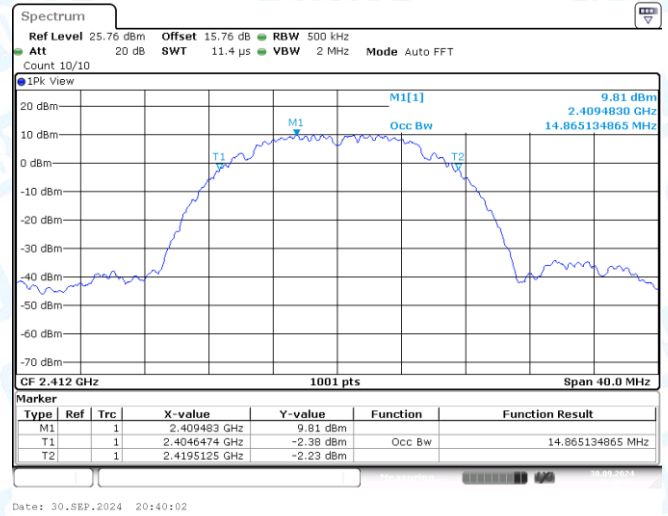
2.1 Test Result

TestMode	Ant.	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	14.865	2404.6474	2419.5125	---	---
11B-CDD	Ant2	2412	14.865	2404.6474	2419.5125	---	---
11B-CDD	Ant1	2437	14.825	2429.6474	2444.4725	---	---
11B-CDD	Ant2	2437	14.945	2429.6074	2444.5524	---	---
11B-CDD	Ant1	2462	14.825	2454.6074	2469.4326	---	---
11B-CDD	Ant2	2462	14.865	2454.6074	2469.4725	---	---
11G-CDD	Ant1	2412	16.543	2403.8082	2420.3516	---	---
11G-CDD	Ant2	2412	16.503	2403.7682	2420.2717	---	---
11G-CDD	Ant1	2437	16.663	2428.7283	2445.3916	---	---
11G-CDD	Ant2	2437	16.464	2428.8082	2445.2717	---	---
11G-CDD	Ant1	2462	16.543	2453.7283	2470.2717	---	---
11G-CDD	Ant2	2462	16.543	2453.7283	2470.2717	---	---
11N20MIMO	Ant1	2412	17.662	2403.1688	2420.8312	---	---
11N20MIMO	Ant2	2412	17.702	2403.1289	2420.8312	---	---
11N20MIMO	Ant1	2437	17.702	2428.1289	2445.8312	---	---
11N20MIMO	Ant2	2437	17.702	2428.1289	2445.8312	---	---
11N20MIMO	Ant1	2462	17.702	2453.1289	2470.8312	---	---
11N20MIMO	Ant2	2462	17.702	2453.1688	2470.8711	---	---
11N40MIMO	Ant1	2422	36.204	2403.8581	2440.0619	---	---
11N40MIMO	Ant2	2422	36.444	2403.8581	2440.3017	---	---
11N40MIMO	Ant1	2437	36.364	2418.6983	2455.0619	---	---
11N40MIMO	Ant2	2437	36.284	2418.8581	2455.1419	---	---
11N40MIMO	Ant1	2452	36.364	2433.7782	2470.1419	---	---
11N40MIMO	Ant2	2452	36.364	2433.7782	2470.1419	---	---
11AX20MIMO	Ant1	2412	19.021	2402.4895	2421.5105	---	---
11AX20MIMO	Ant2	2412	19.021	2402.4895	2421.5105	---	---
11AX20MIMO	Ant1	2437	19.061	2427.4496	2446.5105	---	---
11AX20MIMO	Ant2	2437	19.021	2427.4895	2446.5105	---	---
11AX20MIMO	Ant1	2462	18.941	2452.4895	2471.4306	---	---
11AX20MIMO	Ant2	2462	18.981	2452.4895	2471.4705	---	---
11AX40MIMO	Ant1	2422	37.882	2403.0589	2440.9411	---	---
11AX40MIMO	Ant2	2422	37.962	2403.0589	2441.0210	---	---
11AX40MIMO	Ant1	2437	37.882	2417.9790	2455.8611	---	---
11AX40MIMO	Ant2	2437	38.042	2417.9790	2456.0210	---	---
11AX40MIMO	Ant1	2452	37.962	2433.0589	2471.0210	---	---
11AX40MIMO	Ant2	2452	37.802	2433.0589	2470.8611	---	---

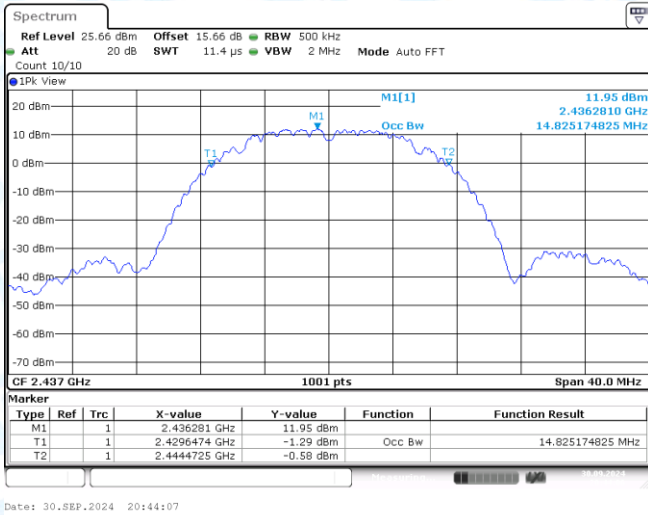
2.2 Test Graphs



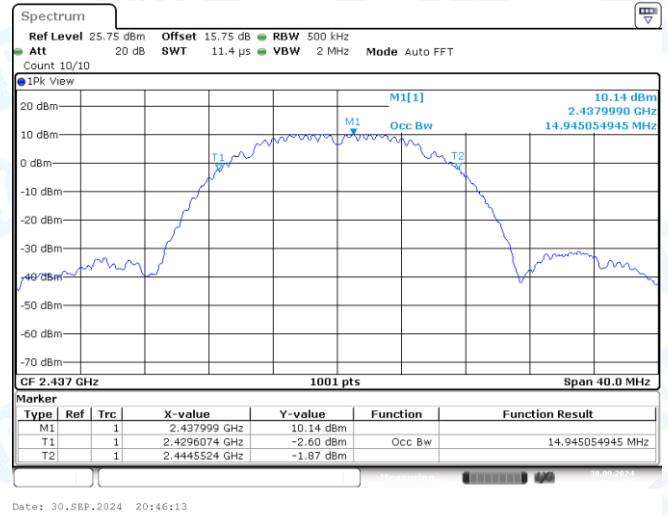
11B-CDD-Ant1-2412



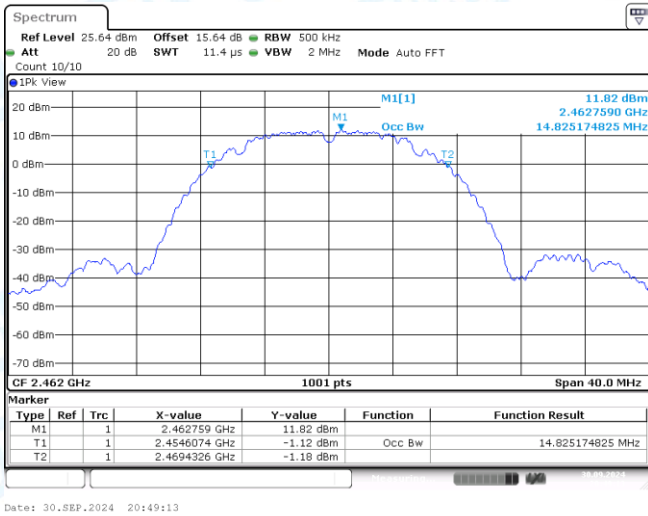
11B-CDD-Ant2-2412



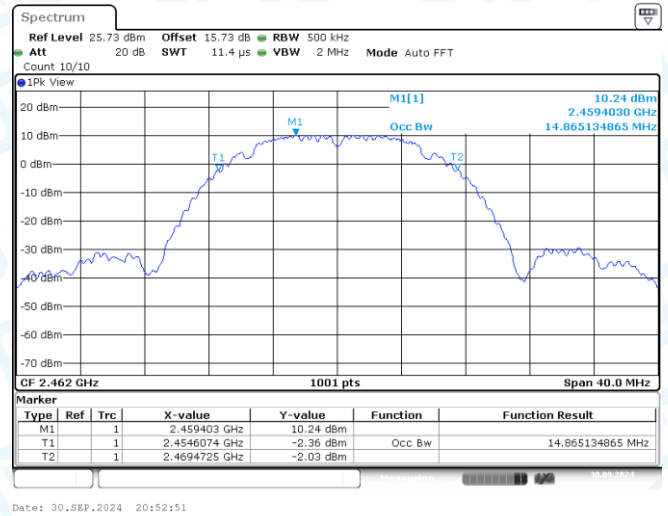
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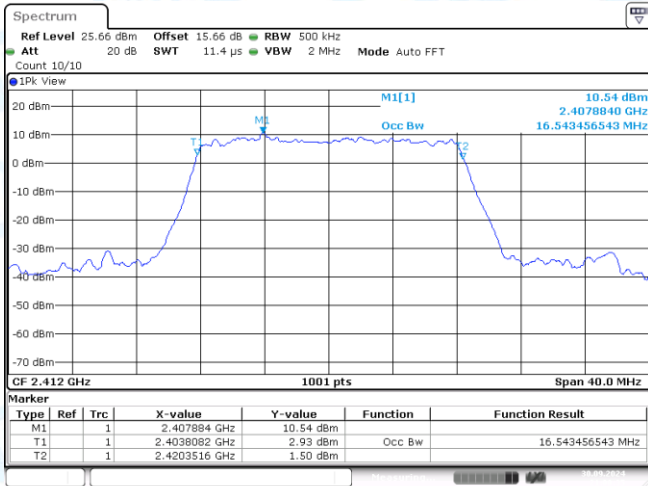
11B-CDD-Ant2-2437



11B-CDD-Ant1-2462

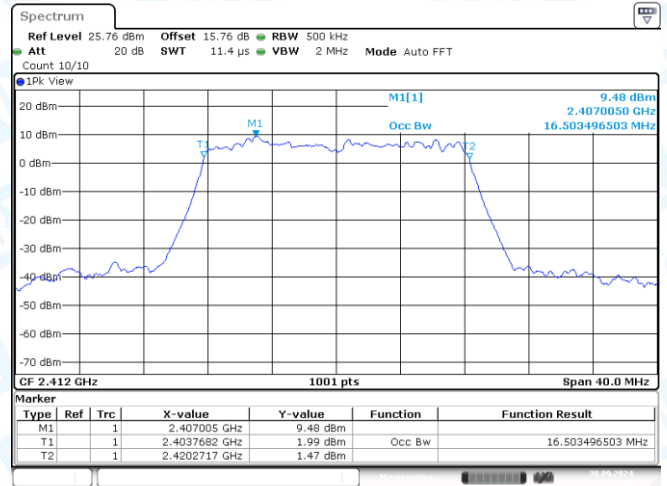


11B-CDD-Ant2-2462



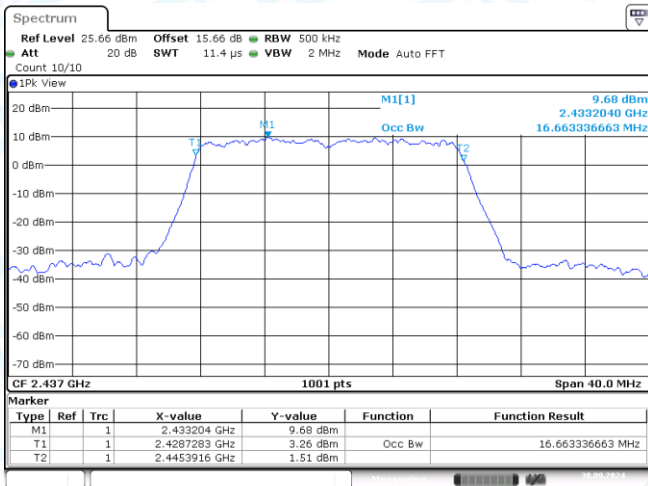
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11G-CDD-Ant1-2412



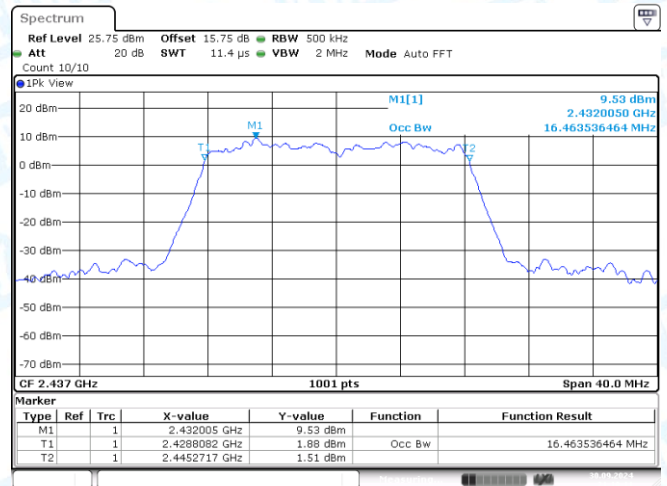
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11G-CDD-Ant2-2412



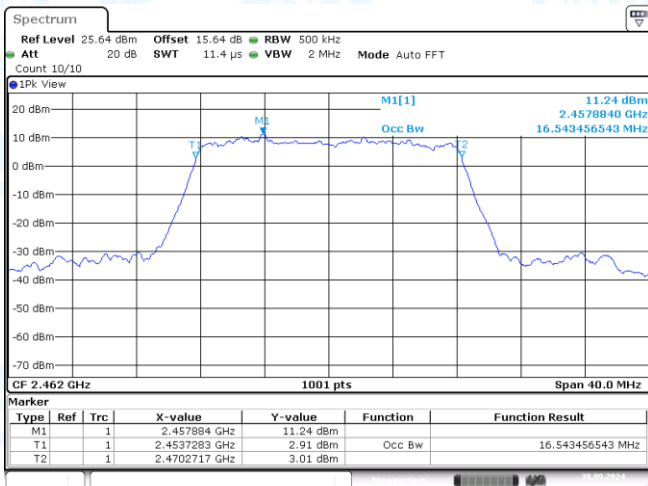
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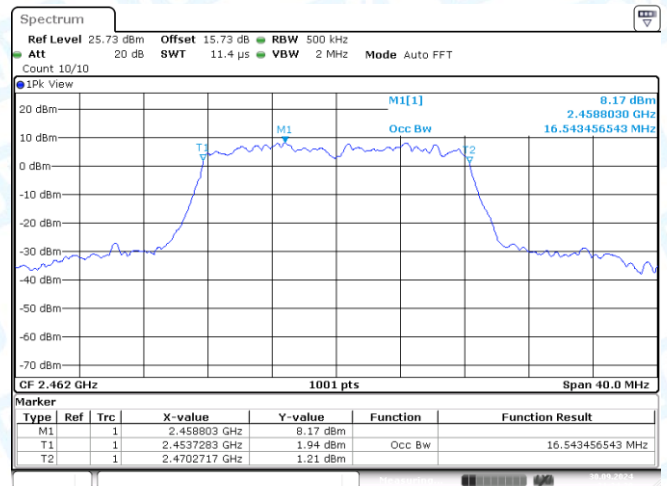
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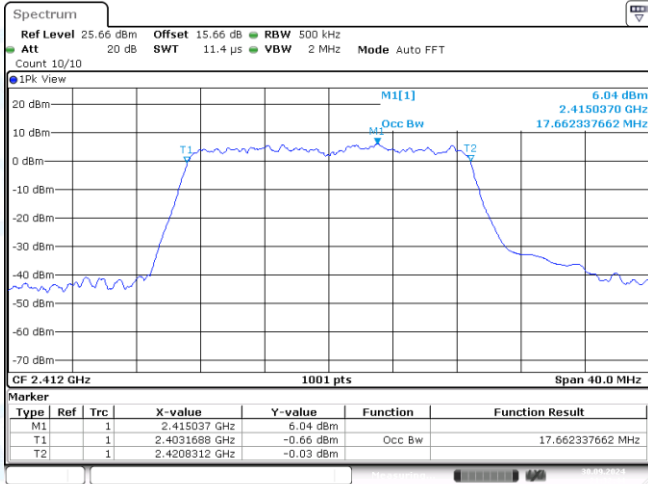
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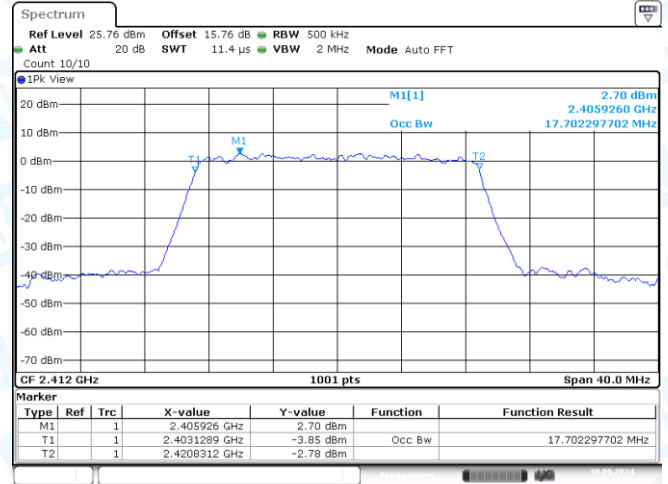
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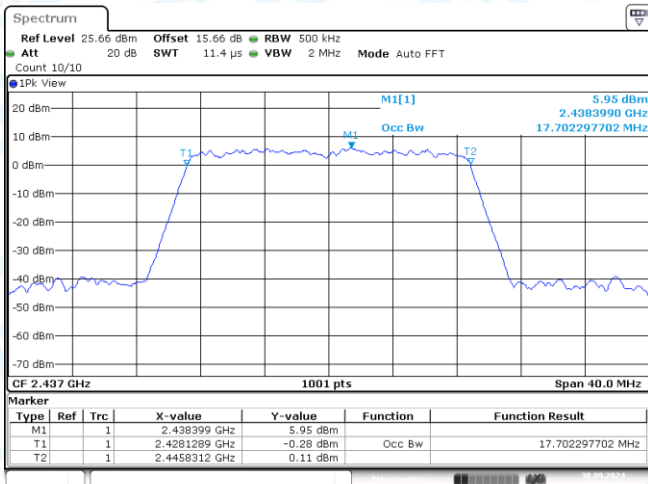
Date: 30.SEP.2024 21:32:44

11N20MIMO-Ant1-2412



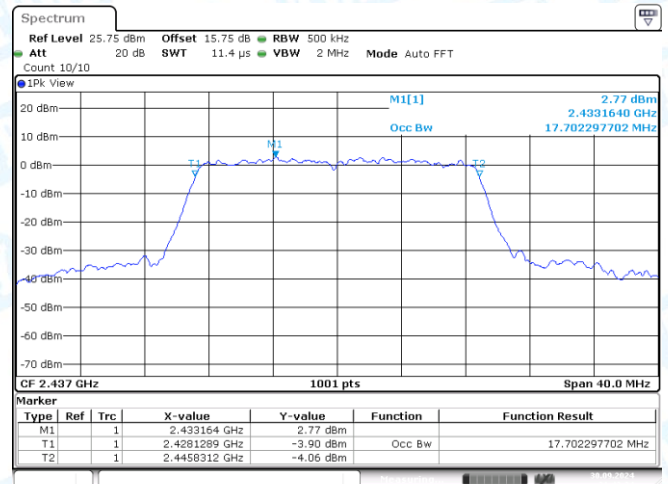
Date: 30.SEP.2024 21:35:47

11N20MIMO-Ant2-2412



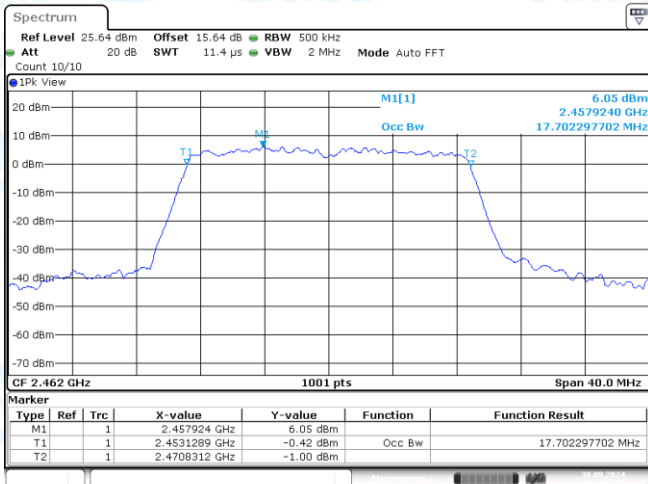
Date: 30.SEP.2024 21:39:14

11N20MIMO-Ant1-2437



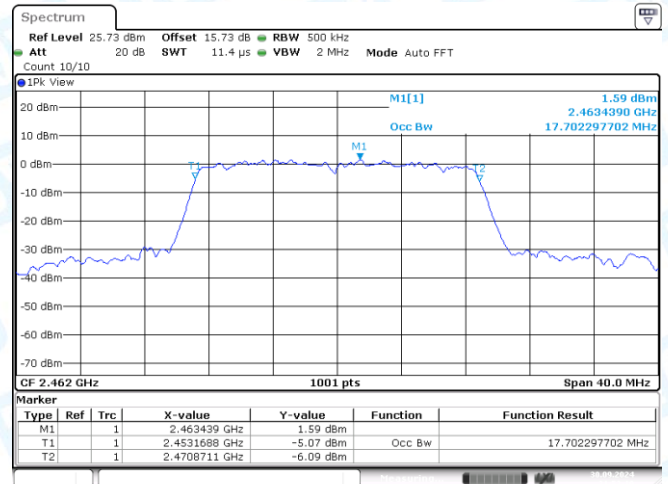
Date: 30.SEP.2024 21:42:35

11N20MIMO-Ant2-2437



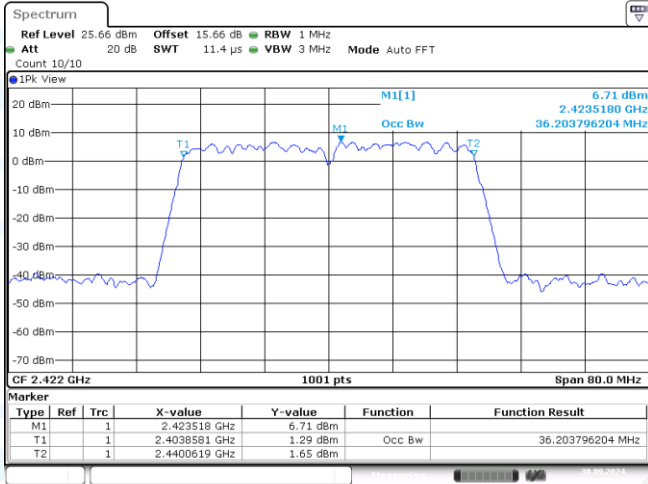
Date: 30.SEP.2024 21:47:22

11N20MIMO-Ant1-2462



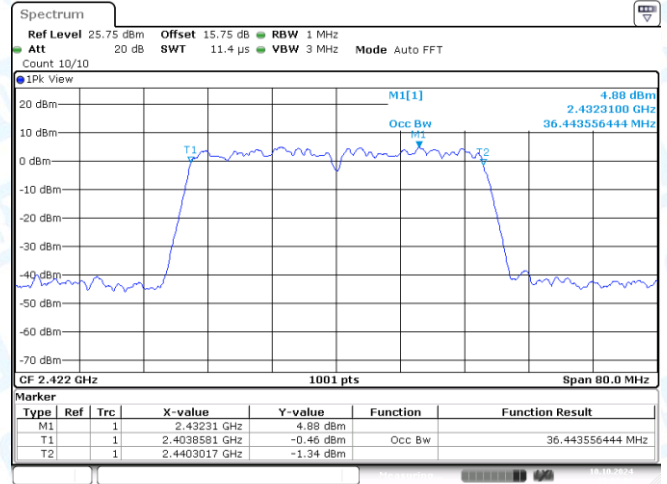
Date: 30.SEP.2024 21:52:11

11N20MIMO-Ant2-2462



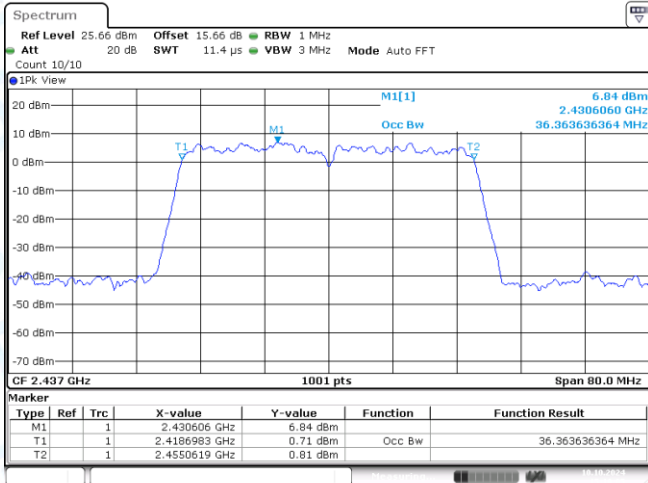
Date: 30.SEP.2024 21:57:39

11N40MIMO-Ant1-2422



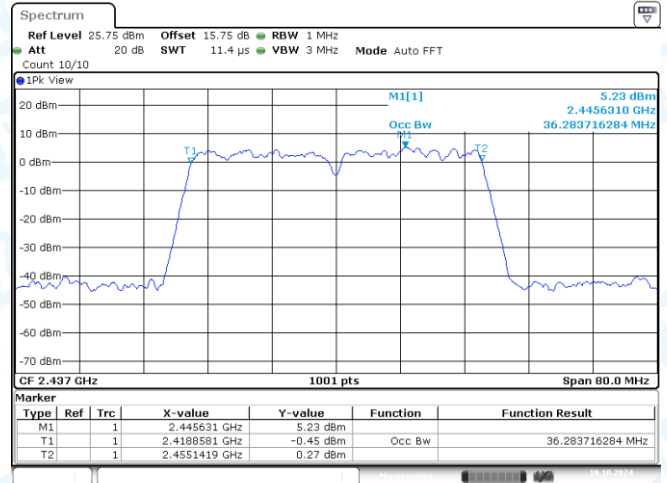
Date: 10.OCT.2024 15:02:01

11N40MIMO-Ant2-2422



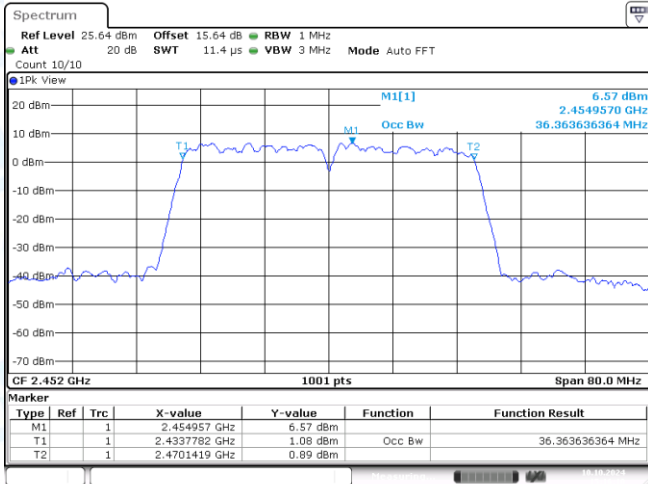
Date: 10.OCT.2024 15:10:05

11N40MIMO-Ant1-2437



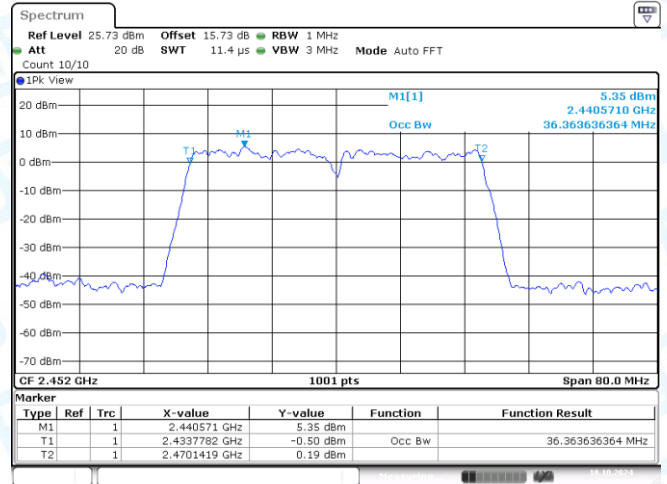
Date: 10.OCT.2024 15:11:59

11N40MIMO-Ant2-2437



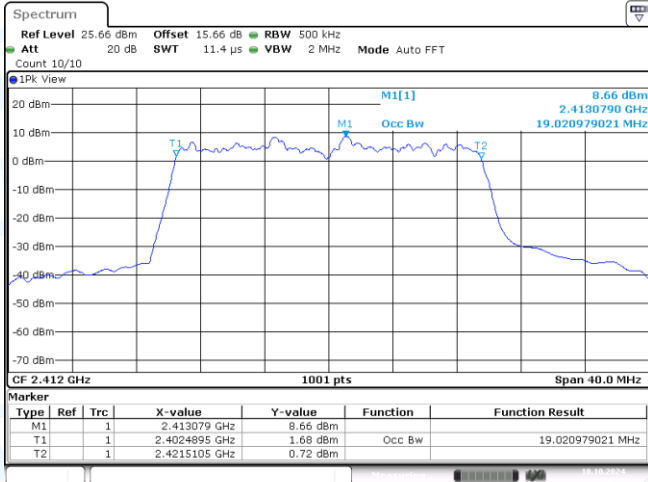
Date: 10.OCT.2024 15:16:10

11N40MIMO-Ant1-2452



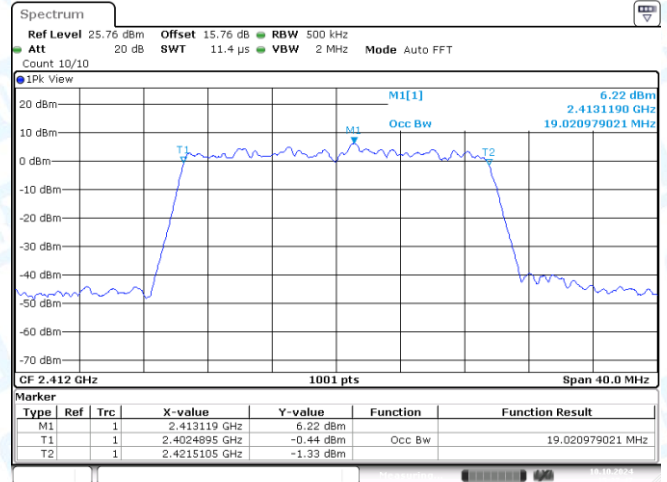
Date: 10.OCT.2024 15:19:45

11N40MIMO-Ant2-2452



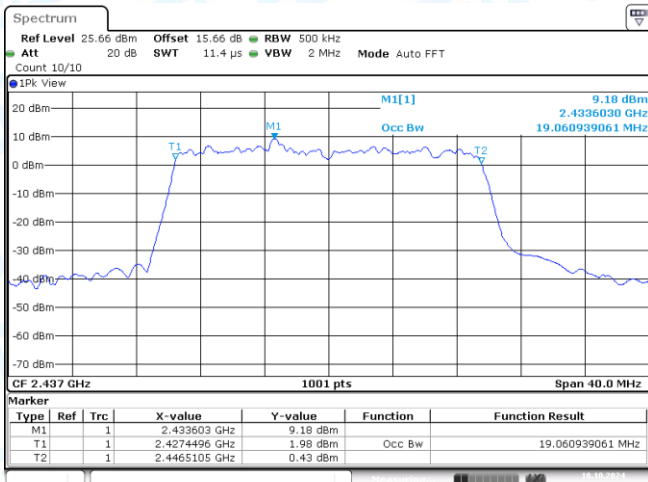
Date: 10.OCT.2024 15:24:43

11AX20MIMO-Ant1-2412



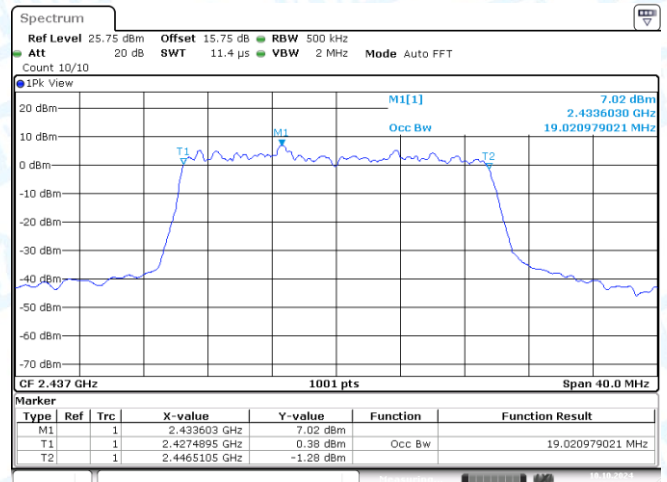
Date: 10.OCT.2024 15:27:48

11AX20MIMO-Ant2-2412



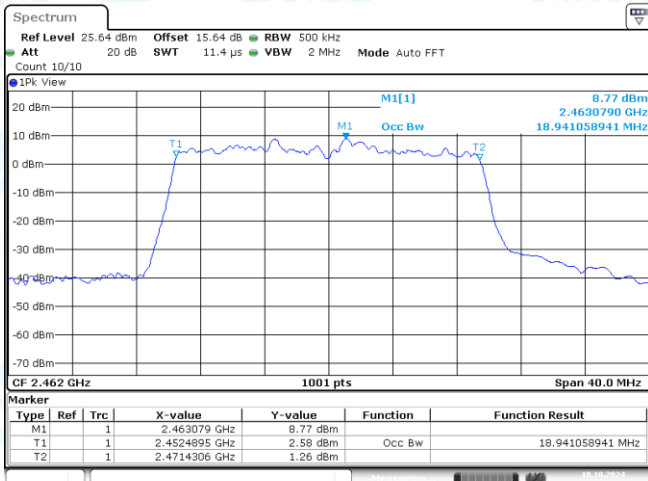
Date: 10.OCT.2024 15:32:19

11AX20MIMO-Ant1-2437



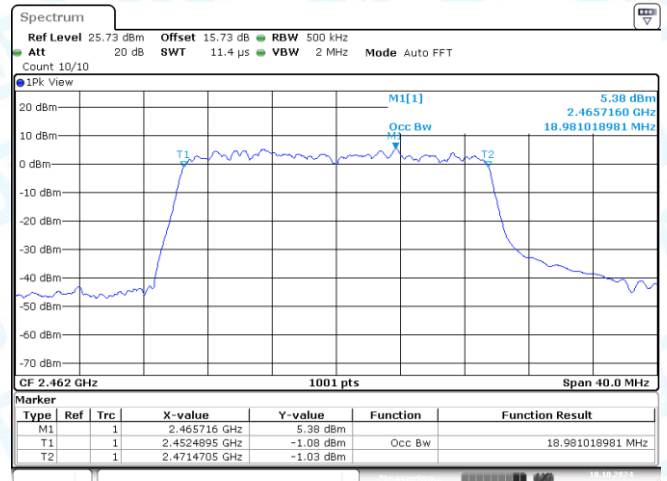
Date: 10.OCT.2024 15:34:11

11AX20MIMO-Ant2-2437



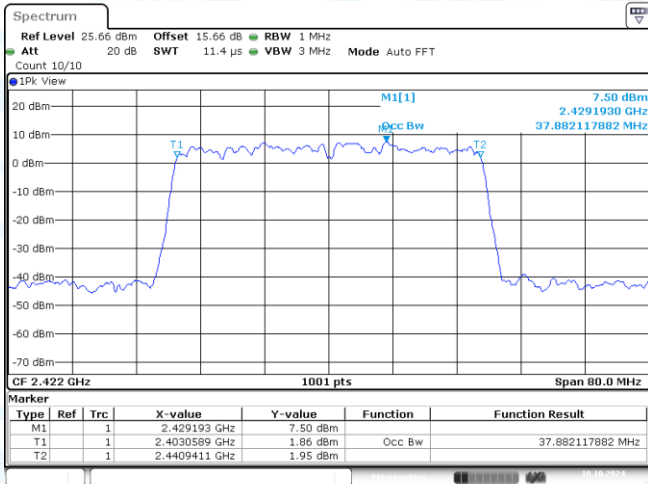
Date: 10.OCT.2024 15:36:44

11AX20MIMO-Ant1-2462



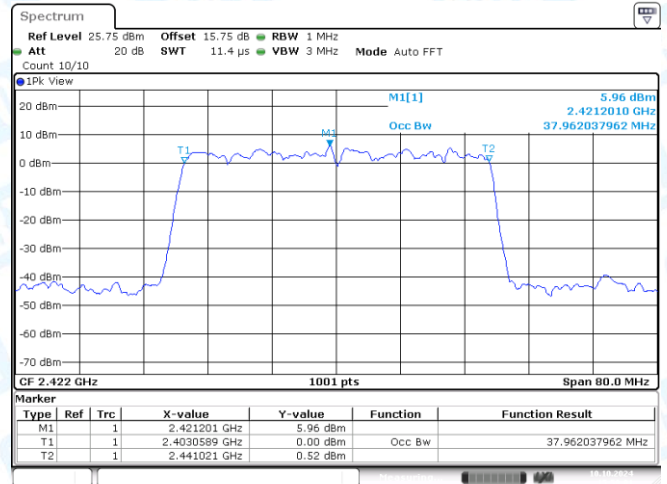
Date: 10.OCT.2024 15:41:01

11AX20MIMO-Ant2-2462



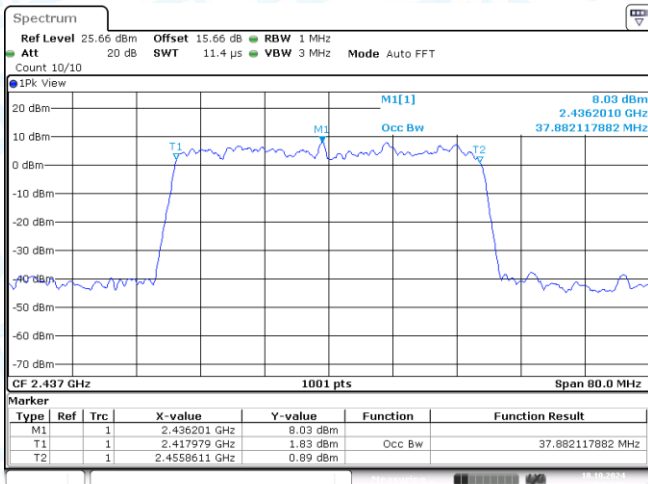
Date: 10.OCT.2024 15:46:22

11AX40MIMO-Ant1-2422



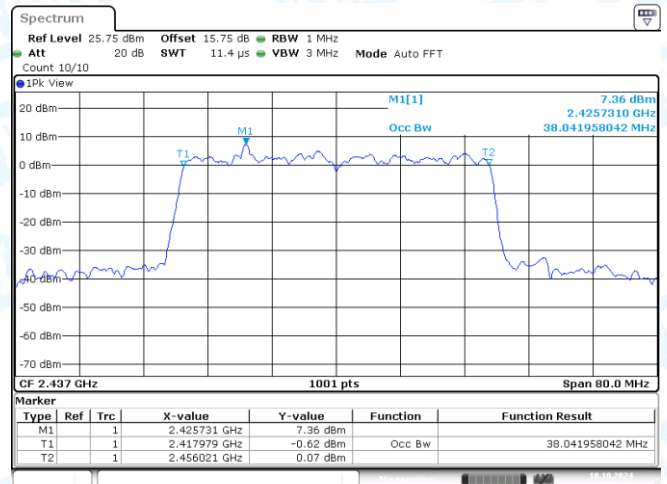
Date: 10.OCT.2024 15:50:01

11AX40MIMO-Ant2-2422



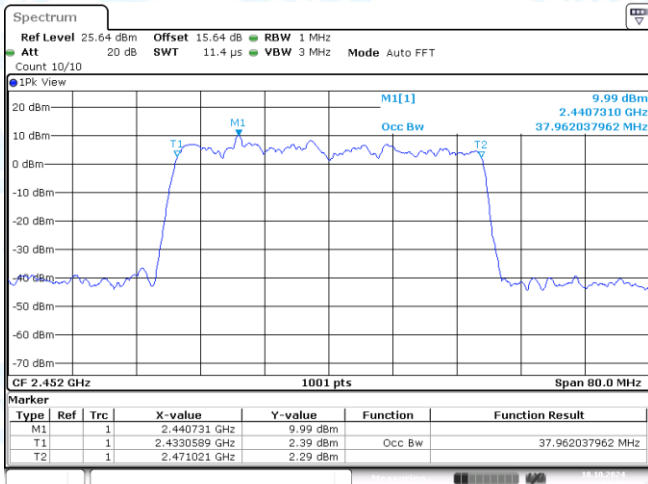
Date: 10.OCT.2024 15:54:08

11AX40MIMO-Ant1-2437



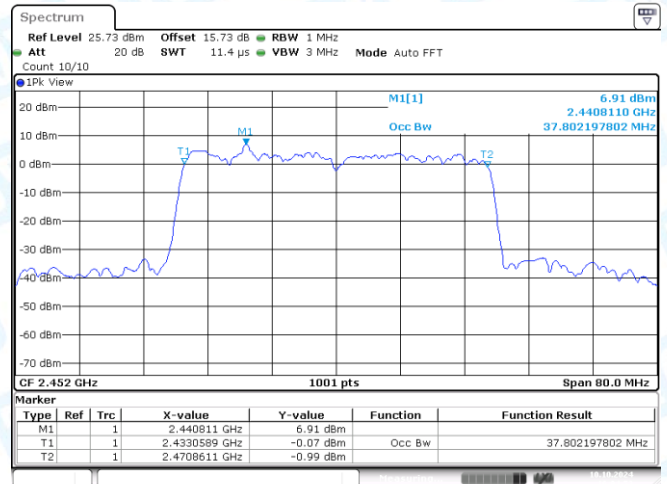
Date: 10.OCT.2024 15:57:16

11AX40MIMO-Ant2-2437



Date: 10.OCT.2024 16:01:49

11AX40MIMO-Ant1-2452



Date: 10.OCT.2024 16:04:54

11AX40MIMO-Ant2-2452

3. Maximum conducted output power

3.1 Test Result Average

Test Mode	Ant.	Frequency [MHz]	Result [dBm]	Limit [dBm]	Verdict
11B-CDD	Ant1	2412	20.65	≤30.00	PASS
11B-CDD	Ant2	2412	19.10	≤30.00	PASS
11B-CDD	total	2412	22.95	≤30.00	PASS
11B-CDD	Ant1	2437	20.74	≤30.00	PASS
11B-CDD	Ant2	2437	19.46	≤30.00	PASS
11B-CDD	total	2437	23.16	≤30.00	PASS
11B-CDD	Ant1	2462	19.03	≤30.00	PASS
11B-CDD	Ant2	2462	17.94	≤30.00	PASS
11B-CDD	total	2462	21.53	≤30.00	PASS
11G-CDD	Ant1	2412	16.77	≤30.00	PASS
11G-CDD	Ant2	2412	15.19	≤30.00	PASS
11G-CDD	total	2412	19.06	≤30.00	PASS
11G-CDD	Ant1	2437	17.19	≤30.00	PASS
11G-CDD	Ant2	2437	14.80	≤30.00	PASS
11G-CDD	total	2437	19.17	≤30.00	PASS
11G-CDD	Ant1	2462	13.76	≤30.00	PASS
11G-CDD	Ant2	2462	10.46	≤30.00	PASS
11G-CDD	total	2462	15.43	≤30.00	PASS
11N20MIMO	Ant1	2412	13.36	≤30.00	PASS
11N20MIMO	Ant2	2412	10.70	≤30.00	PASS
11N20MIMO	total	2412	15.24	≤30.00	PASS
11N20MIMO	Ant1	2437	13.72	≤30.00	PASS
11N20MIMO	Ant2	2437	11.59	≤30.00	PASS
11N20MIMO	total	2437	15.79	≤30.00	PASS
11N20MIMO	Ant1	2462	13.68	≤30.00	PASS
11N20MIMO	Ant2	2462	9.45	≤30.00	PASS
11N20MIMO	total	2462	15.07	≤30.00	PASS
11N40MIMO	Ant1	2422	13.71	≤30.00	PASS
11N40MIMO	Ant2	2422	12.19	≤30.00	PASS
11N40MIMO	total	2422	16.03	≤30.00	PASS
11N40MIMO	Ant1	2437	13.83	≤30.00	PASS
11N40MIMO	Ant2	2437	12.11	≤30.00	PASS
11N40MIMO	total	2437	16.06	≤30.00	PASS
11N40MIMO	Ant1	2452	13.88	≤30.00	PASS
11N40MIMO	Ant2	2452	12.17	≤30.00	PASS
11N40MIMO	total	2452	16.12	≤30.00	PASS
11AX20MIMO	Ant1	2412	13.29	≤30.00	PASS
11AX20MIMO	Ant2	2412	11.45	≤30.00	PASS
11AX20MIMO	total	2412	15.48	≤30.00	PASS
11AX20MIMO	Ant1	2437	13.57	≤30.00	PASS
11AX20MIMO	Ant2	2437	11.52	≤30.00	PASS

11AX20MIMO	total	2437	15.68	≤30.00	PASS
11AX20MIMO	Ant1	2462	13.49	≤30.00	PASS
11AX20MIMO	Ant2	2462	11.75	≤30.00	PASS
11AX20MIMO	total	2462	15.72	≤30.00	PASS
11AX40MIMO	Ant1	2422	13.65	≤30.00	PASS
11AX40MIMO	Ant2	2422	11.51	≤30.00	PASS
11AX40MIMO	total	2422	15.72	≤30.00	PASS
11AX40MIMO	Ant1	2437	13.69	≤30.00	PASS
11AX40MIMO	Ant2	2437	11.16	≤30.00	PASS
11AX40MIMO	total	2437	15.62	≤30.00	PASS
11AX40MIMO	Ant1	2452	13.74	≤30.00	PASS
11AX40MIMO	Ant2	2452	11.51	≤30.00	PASS
11AX40MIMO	total	2452	15.78	≤30.00	PASS

4. Maximum power spectral density

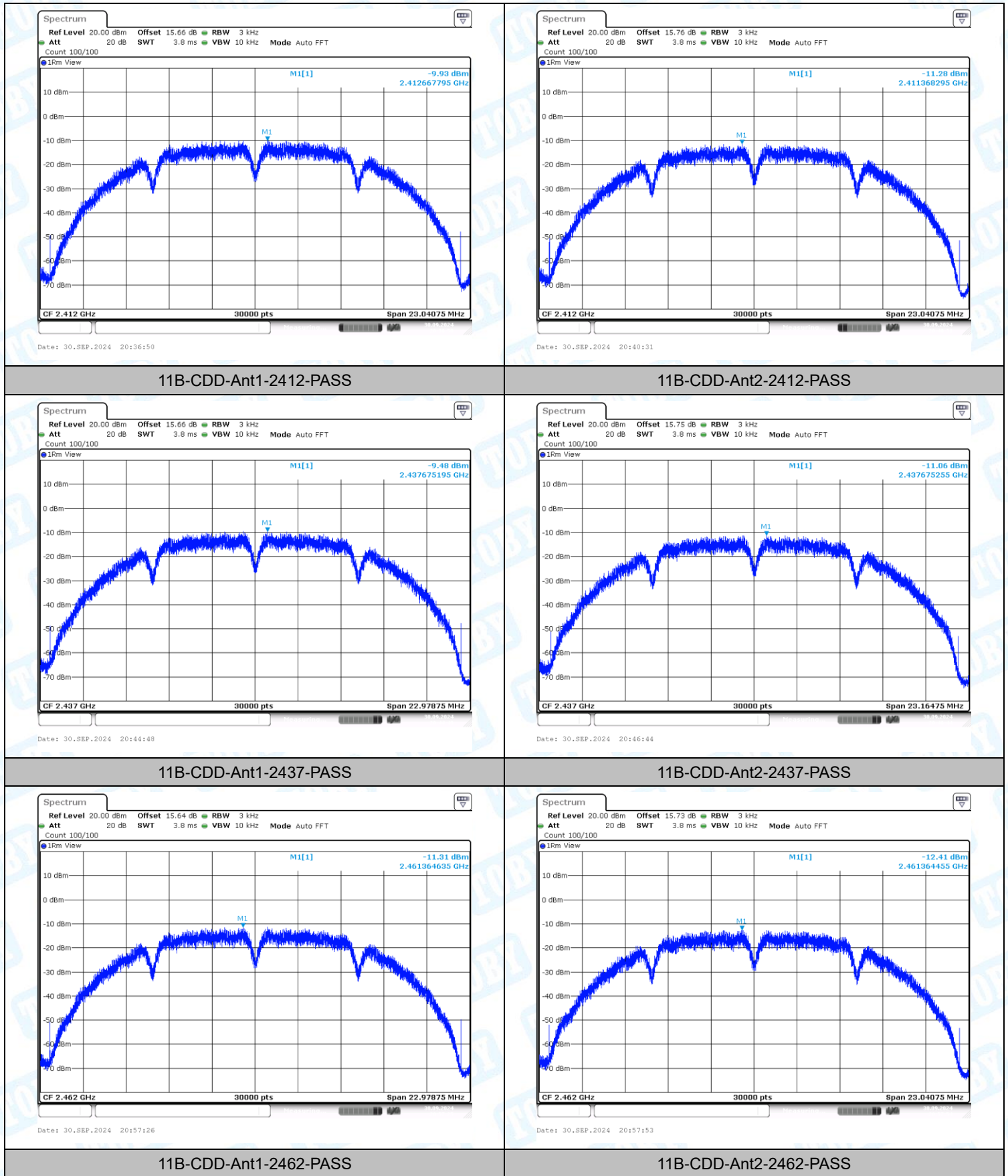
4.1 Test Result

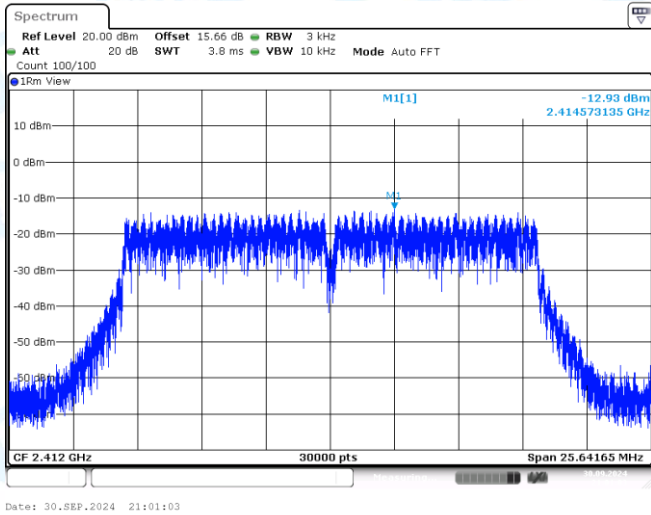
TestMode	Ant.	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B-CDD	Ant1	2412	-9.91	≤8.00	PASS
11B-CDD	Ant2	2412	-11.26	≤8.00	PASS
11B-CDD	total	2412	-7.52	≤8.00	PASS
11B-CDD	Ant1	2437	-9.46	≤8.00	PASS
11B-CDD	Ant2	2437	-11.04	≤8.00	PASS
11B-CDD	total	2437	-7.17	≤8.00	PASS
11B-CDD	Ant1	2462	-11.29	≤8.00	PASS
11B-CDD	Ant2	2462	-12.39	≤8.00	PASS
11B-CDD	total	2462	-8.79	≤8.00	PASS
11G-CDD	Ant1	2412	-12.89	≤8.00	PASS
11G-CDD	Ant2	2412	-14.24	≤8.00	PASS
11G-CDD	total	2412	-10.50	≤8.00	PASS
11G-CDD	Ant1	2437	-12.50	≤8.00	PASS
11G-CDD	Ant2	2437	-14.99	≤8.00	PASS
11G-CDD	total	2437	-10.56	≤8.00	PASS
11G-CDD	Ant1	2462	-16.04	≤8.00	PASS
11G-CDD	Ant2	2462	-19.43	≤8.00	PASS
11G-CDD	total	2462	-14.40	≤8.00	PASS
11N20MIMO	Ant1	2412	-15.08	≤8.00	PASS
11N20MIMO	Ant2	2412	-16.18	≤8.00	PASS
11N20MIMO	total	2412	-12.58	≤8.00	PASS
11N20MIMO	Ant1	2437	-14.76	≤8.00	PASS
11N20MIMO	Ant2	2437	-16.68	≤8.00	PASS
11N20MIMO	total	2437	-12.60	≤8.00	PASS
11N20MIMO	Ant1	2462	-14.93	≤8.00	PASS
11N20MIMO	Ant2	2462	-14.88	≤8.00	PASS
11N20MIMO	total	2462	-11.89	≤8.00	PASS
11N40MIMO	Ant1	2422	-16.87	≤8.00	PASS
11N40MIMO	Ant2	2422	-18.73	≤8.00	PASS
11N40MIMO	total	2422	-14.69	≤8.00	PASS
11N40MIMO	Ant1	2437	-16.58	≤8.00	PASS
11N40MIMO	Ant2	2437	-19.03	≤8.00	PASS
11N40MIMO	total	2437	-14.62	≤8.00	PASS
11N40MIMO	Ant1	2452	-16.44	≤8.00	PASS
11N40MIMO	Ant2	2452	-18.33	≤8.00	PASS
11N40MIMO	total	2452	-14.27	≤8.00	PASS
11AX20MIMO	Ant1	2412	-14.51	≤8.00	PASS
11AX20MIMO	Ant2	2412	-16.75	≤8.00	PASS
11AX20MIMO	total	2412	-12.48	≤8.00	PASS
11AX20MIMO	Ant1	2437	-14.34	≤8.00	PASS

11AX20MIMO	Ant2	2437	-16.54	≤8.00	PASS
11AX20MIMO	total	2437	-12.29	≤8.00	PASS
11AX20MIMO	Ant1	2462	-14.64	≤8.00	PASS
11AX20MIMO	Ant2	2462	-16.24	≤8.00	PASS
11AX20MIMO	total	2462	-12.36	≤8.00	PASS
11AX40MIMO	Ant1	2422	-15.99	≤8.00	PASS
11AX40MIMO	Ant2	2422	-18.28	≤8.00	PASS
11AX40MIMO	total	2422	-13.98	≤8.00	PASS
11AX40MIMO	Ant1	2437	-16.45	≤8.00	PASS
11AX40MIMO	Ant2	2437	-18.92	≤8.00	PASS
11AX40MIMO	total	2437	-14.50	≤8.00	PASS
11AX40MIMO	Ant1	2452	-16.15	≤8.00	PASS
11AX40MIMO	Ant2	2452	-18.53	≤8.00	PASS
11AX40MIMO	total	2452	-14.17	≤8.00	PASS

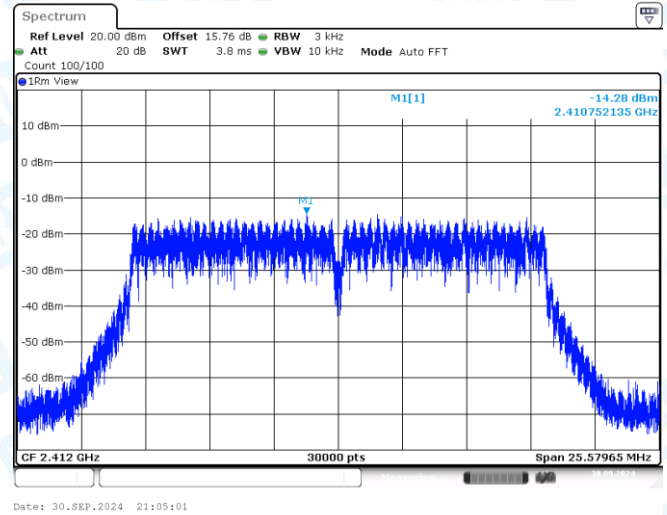
Note: The Duty Cycle Factor is compensated in the graph.

4.2 Test Graphs

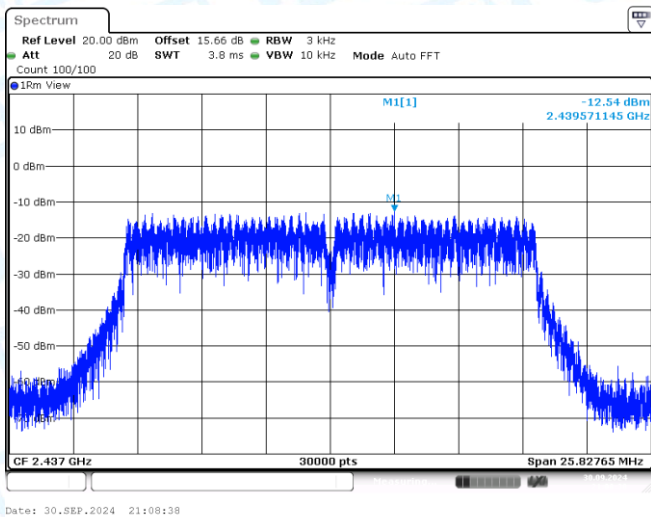




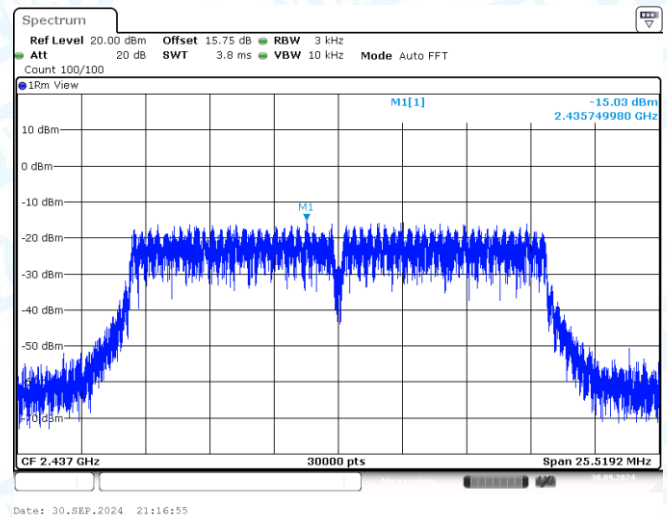
11G-CDD-Ant1-2412-PASS



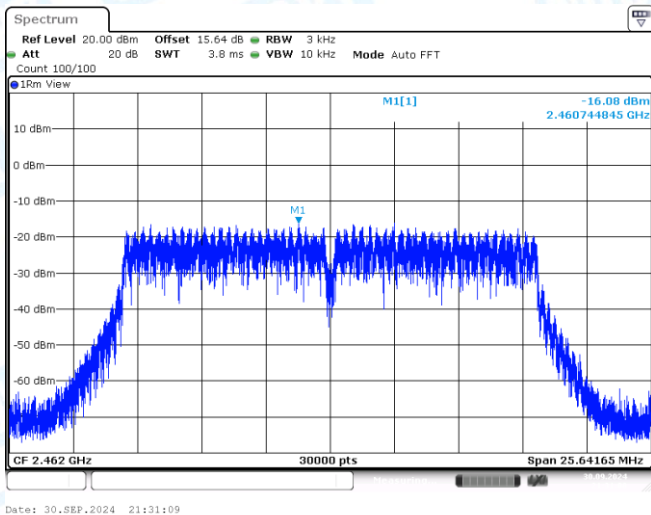
11G-CDD-Ant2-2412-PASS



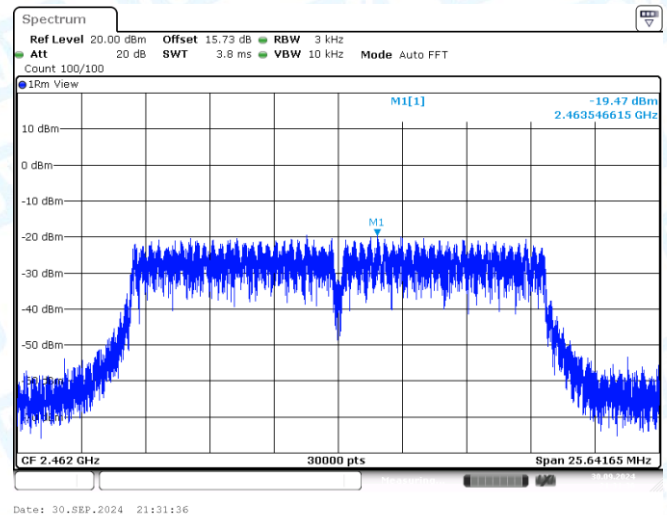
11G-CDD-Ant1-2437-PASS



11G-CDD-Ant2-2437-PASS



11G-CDD-Ant1-2462-PASS



11G-CDD-Ant2-2462-PASS