

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

General Description of EUT	
EUT Name:	LCD digital signage
Model:	MWE701
Sample ID:	HC-C-202503-0822-01-01-2#
Test Standard:	FCC Part 15.247
Environmental Conditions	
Ambient Temperature:	25°C
Ambient Humidity:	45%RH
Test Power Supply:	AC 120V
Test Engineer:	Rick. chen
Note: For a more detailed features description, please refer to the report TBR-C-202503-0822-3	

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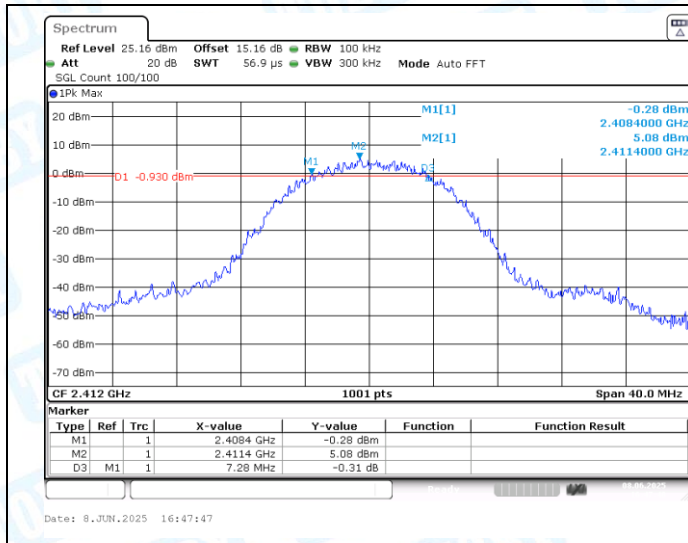
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1: DTS Bandwidth

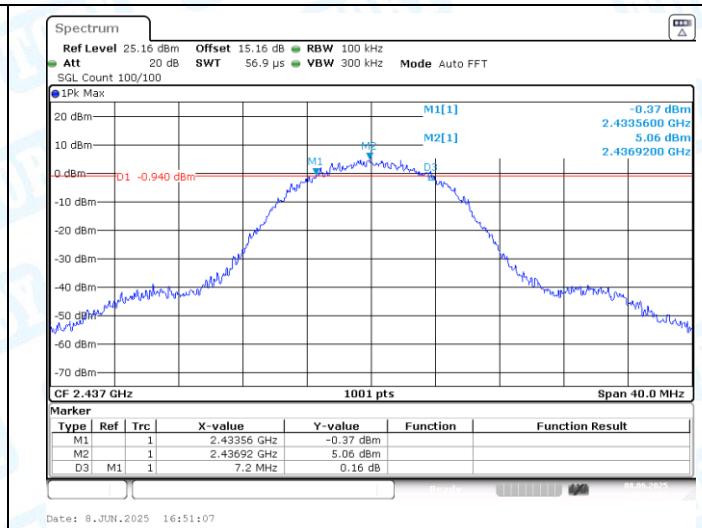
1.1 Test Result

TestMode	Ant.	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.28	2408.40	2415.68	0.5	PASS
11B	Ant1	2437	7.20	2433.56	2440.76	0.5	PASS
11B	Ant1	2462	7.28	2458.48	2465.76	0.5	PASS
11G	Ant1	2412	16.36	2403.80	2420.16	0.5	PASS
11G	Ant1	2437	16.36	2428.80	2445.16	0.5	PASS
11G	Ant1	2462	16.48	2453.76	2470.24	0.5	PASS
11N20SISO	Ant1	2412	17.64	2403.16	2420.80	0.5	PASS
11N20SISO	Ant1	2437	17.72	2428.16	2445.88	0.5	PASS
11N20SISO	Ant1	2462	17.72	2453.16	2470.88	0.5	PASS
11N40SISO	Ant1	2422	35.52	2404.40	2439.92	0.5	PASS
11N40SISO	Ant1	2437	35.76	2419.40	2455.16	0.5	PASS
11N40SISO	Ant1	2452	35.52	2434.40	2469.92	0.5	PASS
11AX20SISO	Ant1	2412	17.60	2403.20	2420.80	0.5	PASS
11AX20SISO	Ant1	2437	17.60	2428.20	2445.80	0.5	PASS
11AX20SISO	Ant1	2462	17.80	2453.08	2470.88	0.5	PASS
11AX40SISO	Ant1	2422	37.68	2403.20	2440.88	0.5	PASS
11AX40SISO	Ant1	2437	37.84	2418.20	2456.04	0.5	PASS
11AX40SISO	Ant1	2452	37.76	2433.12	2470.88	0.5	PASS

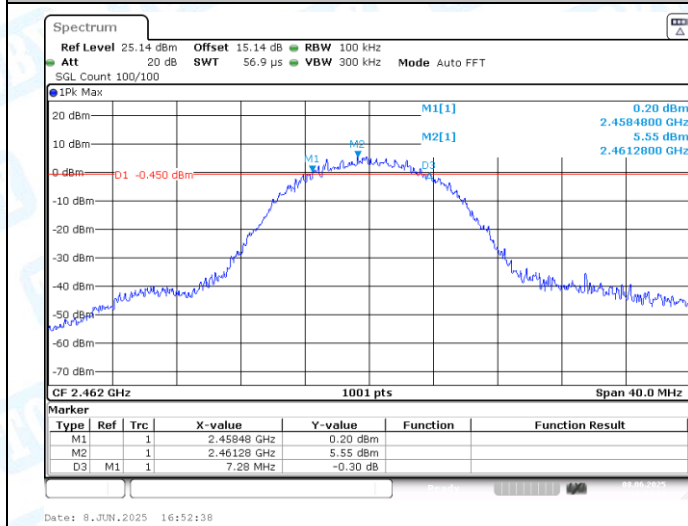
1.2 Test Graphs



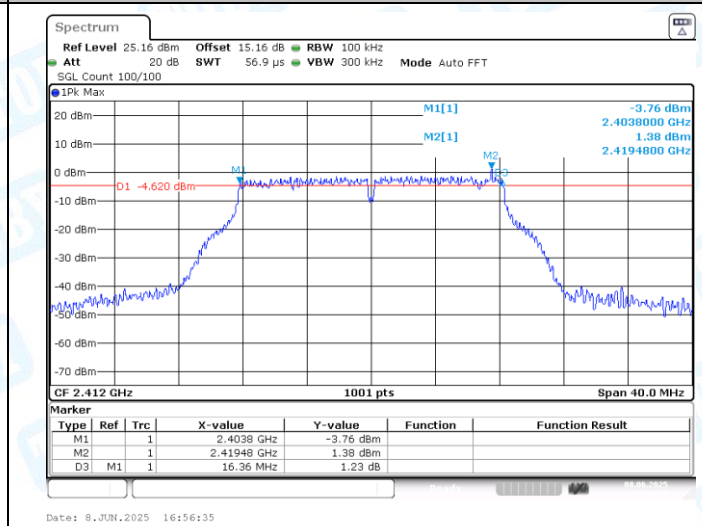
11B-Ant1-2412-PASS



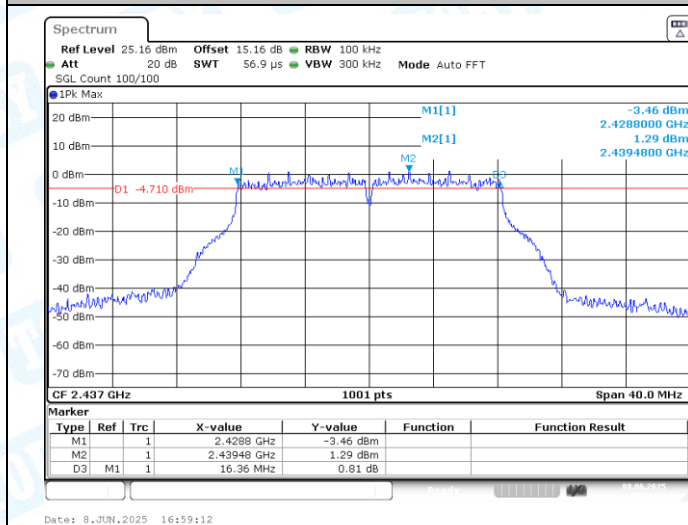
11B-Ant1-2437-PASS



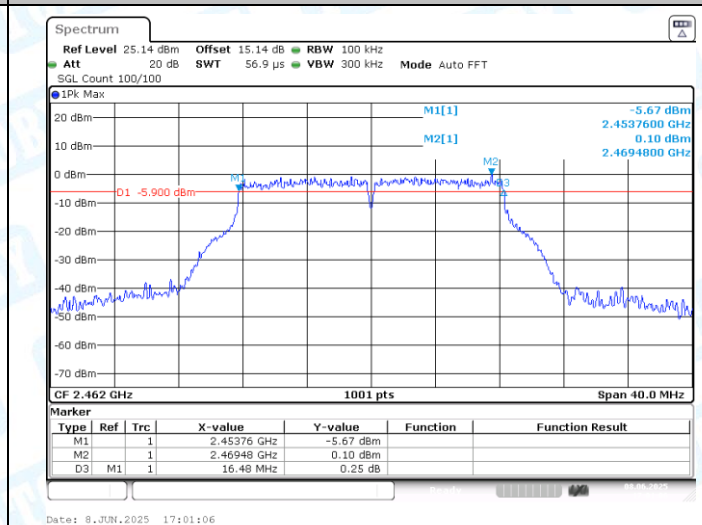
11B-Ant1-2462-PASS



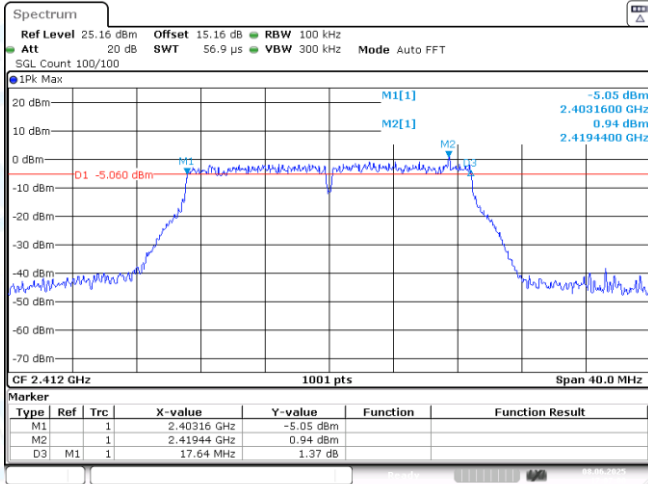
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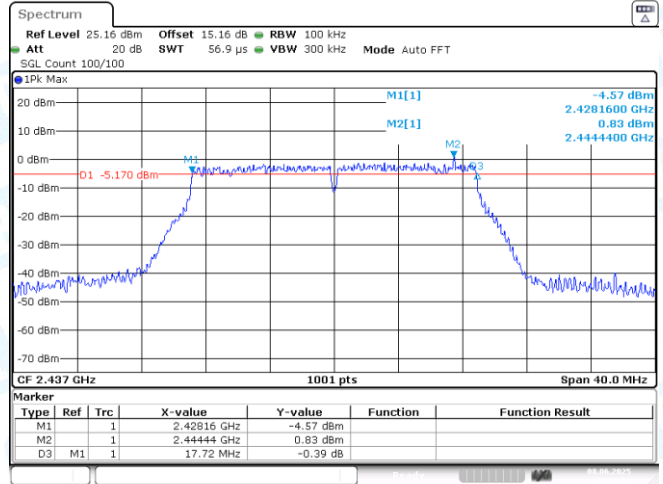
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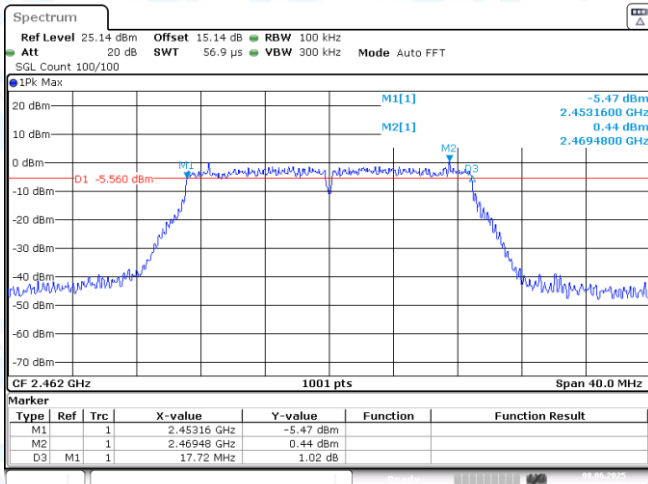
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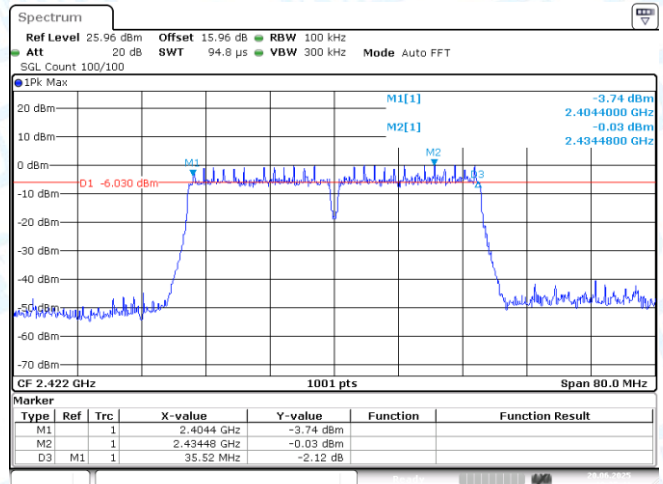
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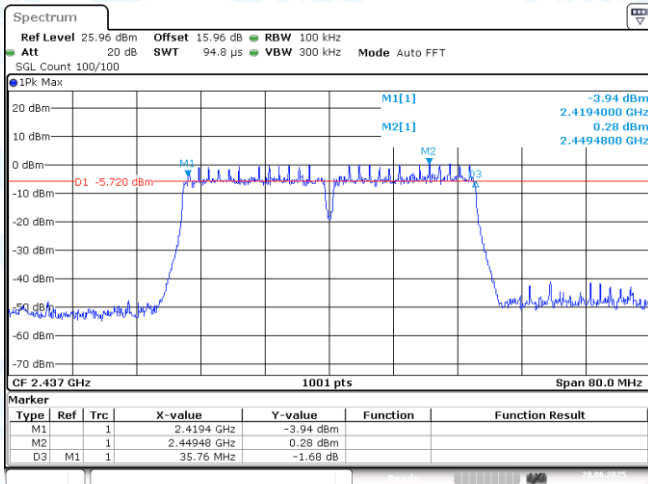
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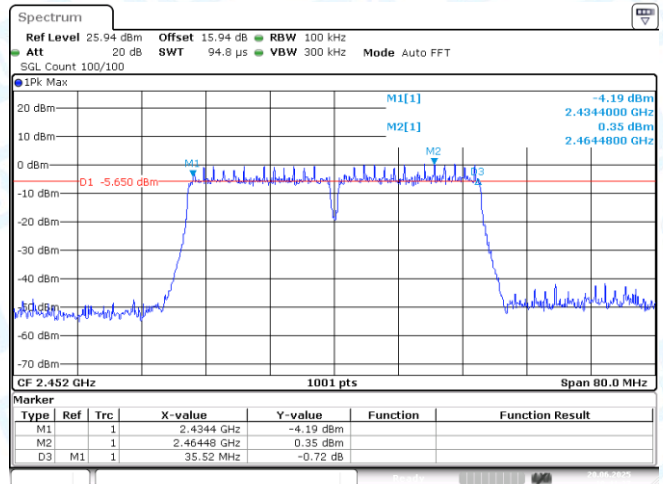
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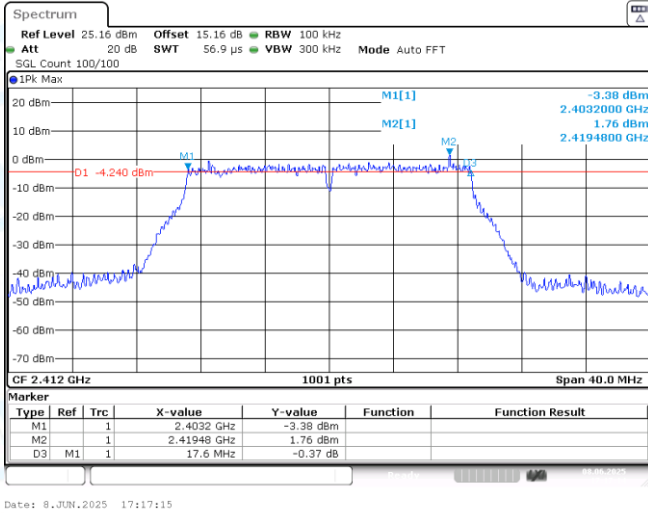
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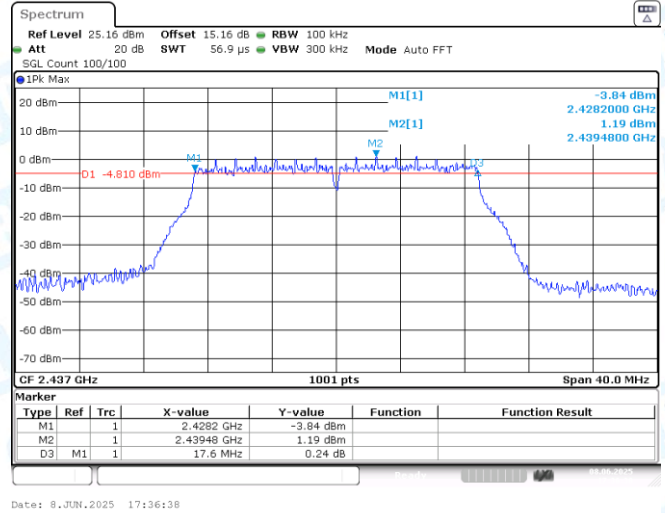
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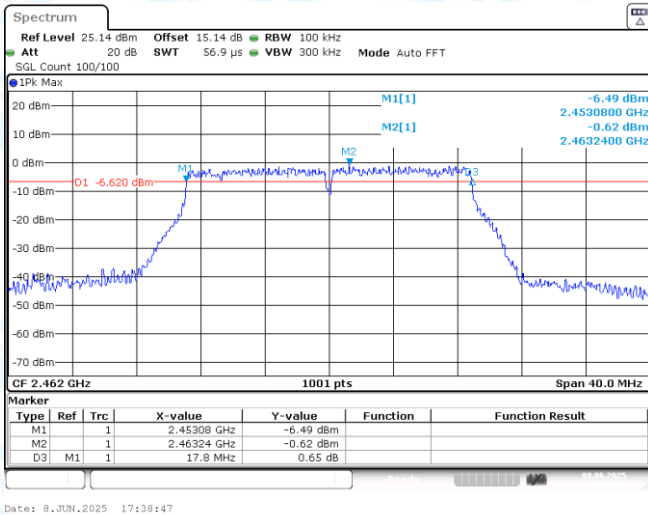
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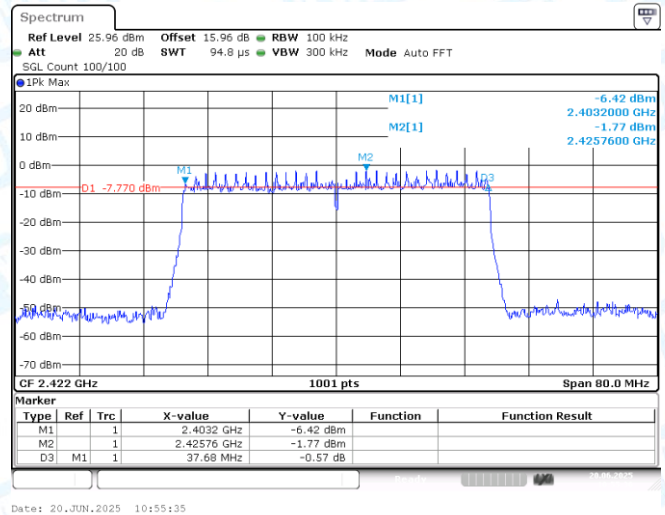
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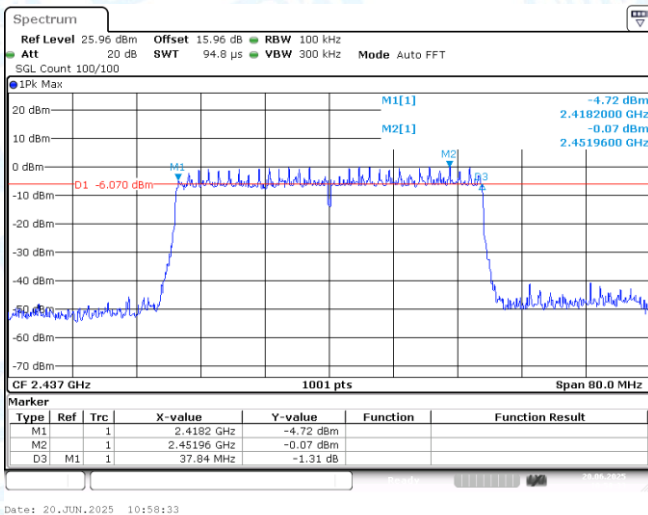
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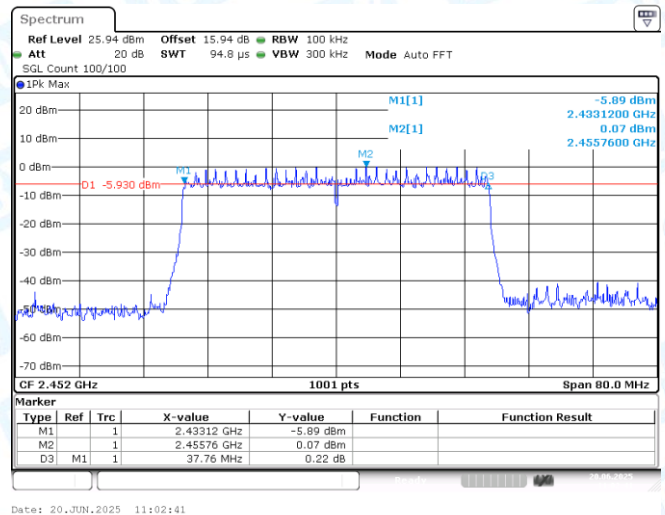
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11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2437-PASS



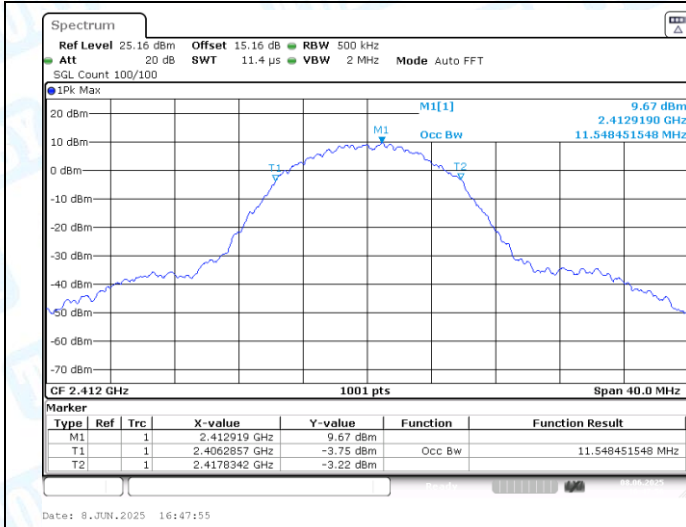
11AX40SISO-Ant1-2452-PASS

2: Occupied Channel Bandwidth

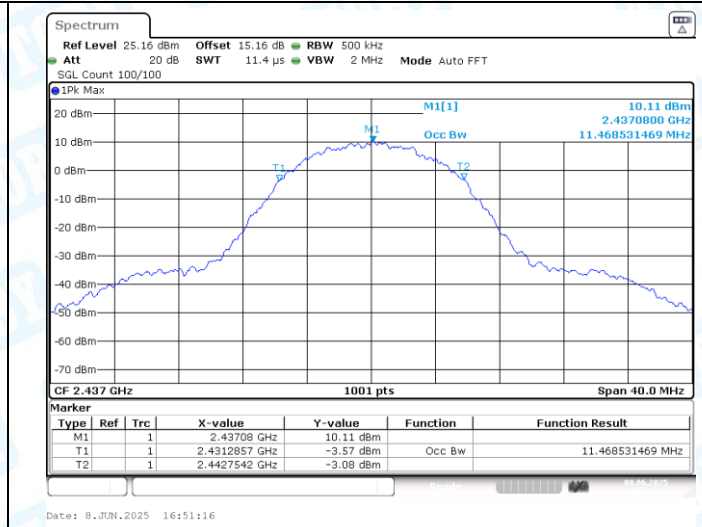
2.1 Test Result

TestMode	Ant.	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.548	2406.2857	2417.8342	---	---
11B	Ant1	2437	11.469	2431.2857	2442.7542	---	---
11B	Ant1	2462	11.508	2456.2458	2467.7542	---	---
11G	Ant1	2412	17.103	2403.5285	2420.6314	---	---
11G	Ant1	2437	17.622	2428.1688	2445.7912	---	---
11G	Ant1	2462	17.223	2453.3287	2470.5514	---	---
11N20SISO	Ant1	2412	18.262	2402.9690	2421.2308	---	---
11N20SISO	Ant1	2437	18.422	2427.7293	2446.1508	---	---
11N20SISO	Ant1	2462	18.422	2452.6094	2471.0310	---	---
11N40SISO	Ant1	2422	36.364	2403.9381	2440.3017	---	---
11N40SISO	Ant1	2437	36.364	2418.7782	2455.1419	---	---
11N40SISO	Ant1	2452	36.284	2433.8581	2470.1419	---	---
11AX20SISO	Ant1	2412	18.342	2402.7293	2421.0709	---	---
11AX20SISO	Ant1	2437	18.342	2427.8492	2446.1908	---	---
11AX20SISO	Ant1	2462	18.581	2452.8492	2471.4306	---	---
11AX40SISO	Ant1	2422	37.882	2403.0589	2440.9411	---	---
11AX40SISO	Ant1	2437	38.042	2418.0589	2456.1009	---	---
11AX40SISO	Ant1	2452	37.882	2433.0589	2470.9411	---	---

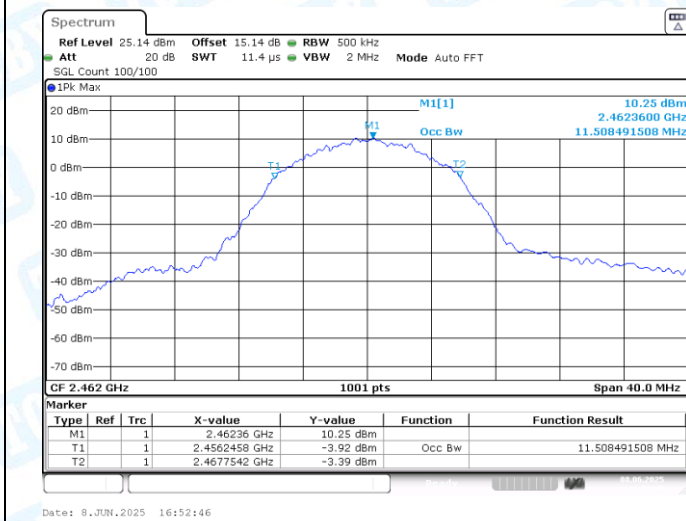
2.2 Test Graphs



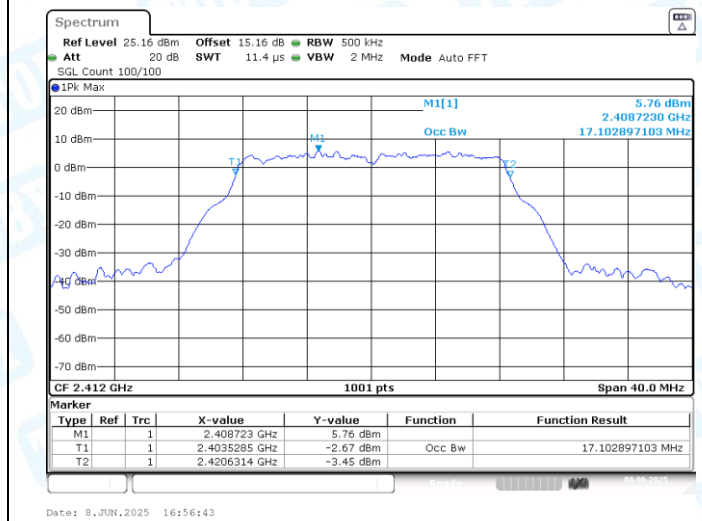
11B-Ant1-2412



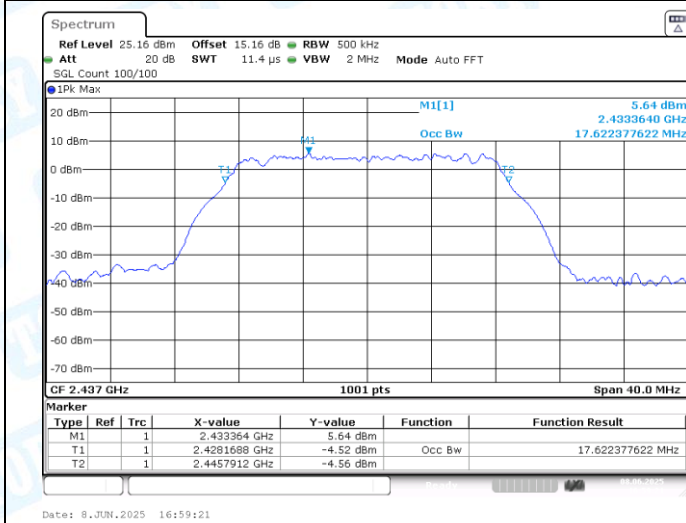
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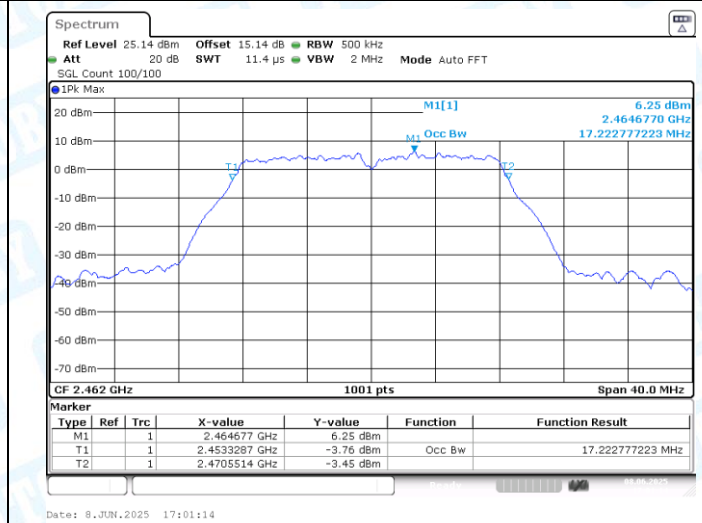
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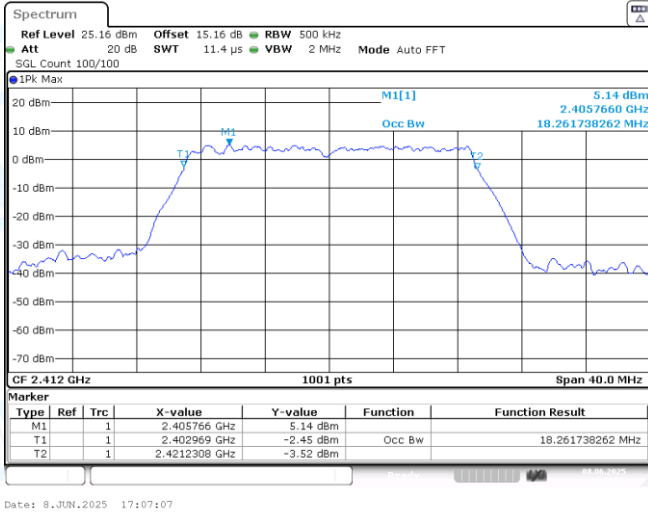
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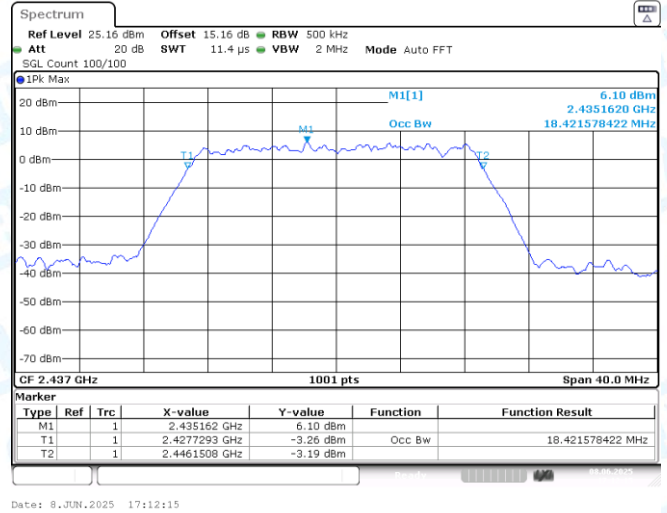
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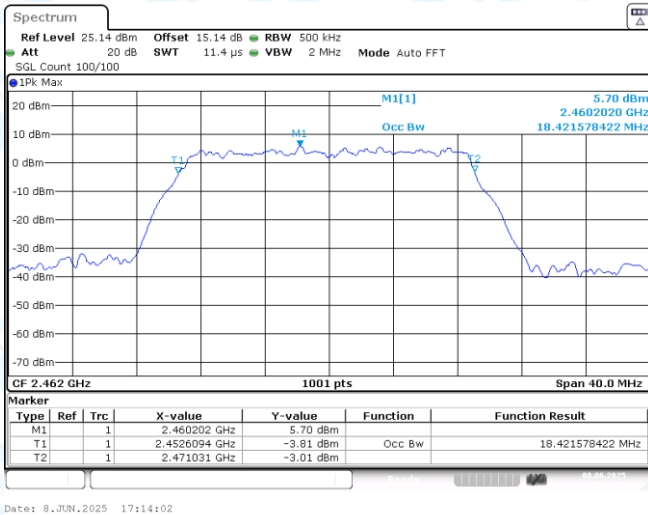
11G-Ant1-2462



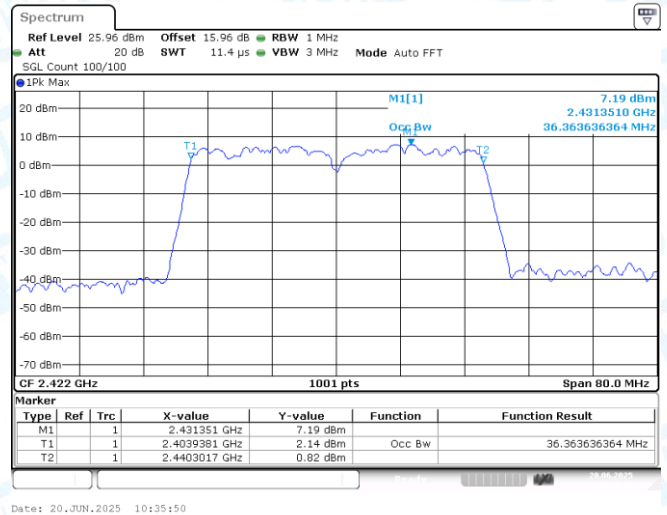
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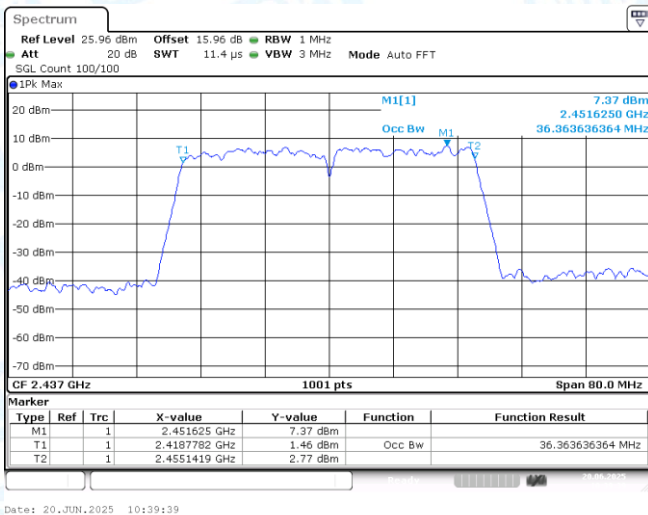
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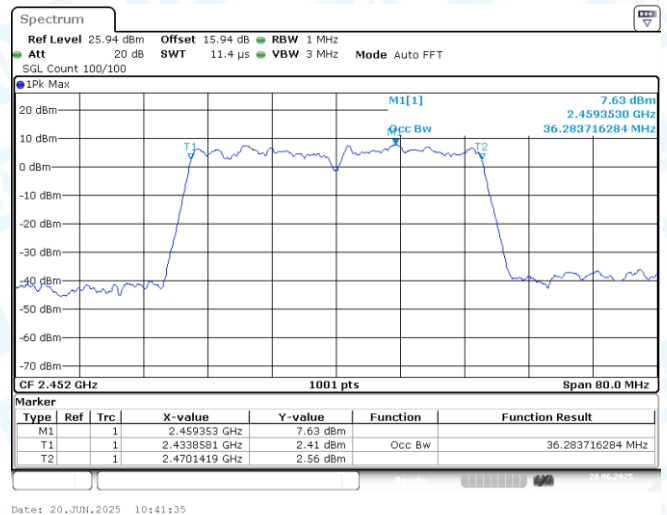
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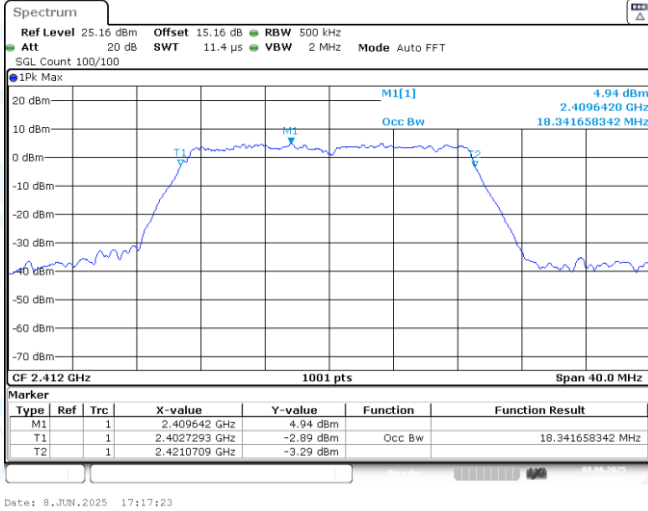
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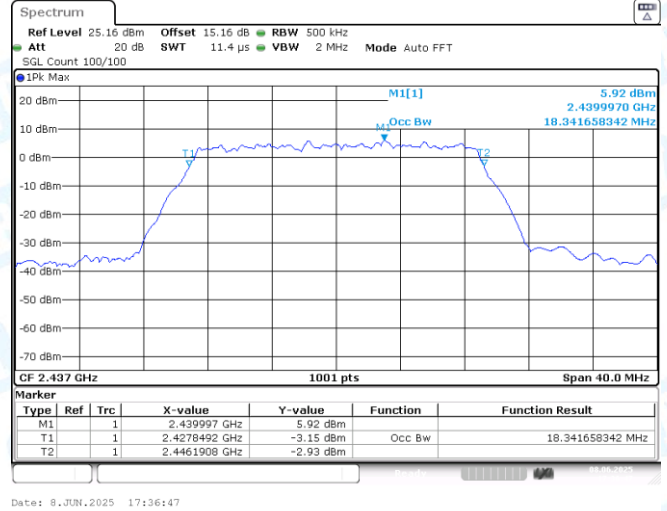
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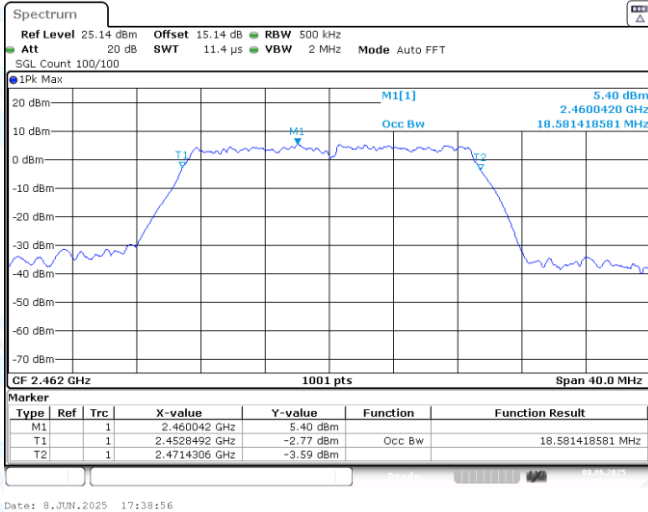
11N40SISO-Ant1-2452



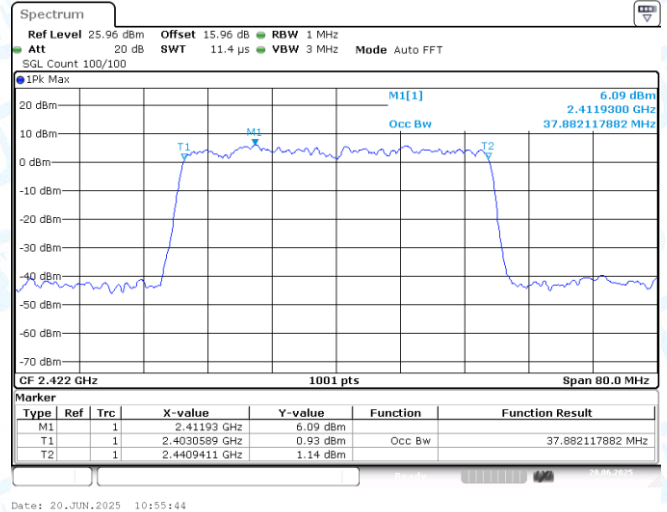
11AX20SISO-Ant1-2412



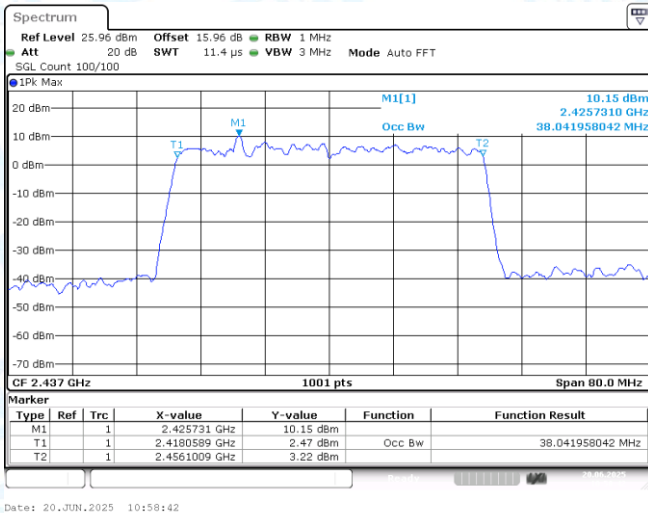
11AX20SISO-Ant1-2437



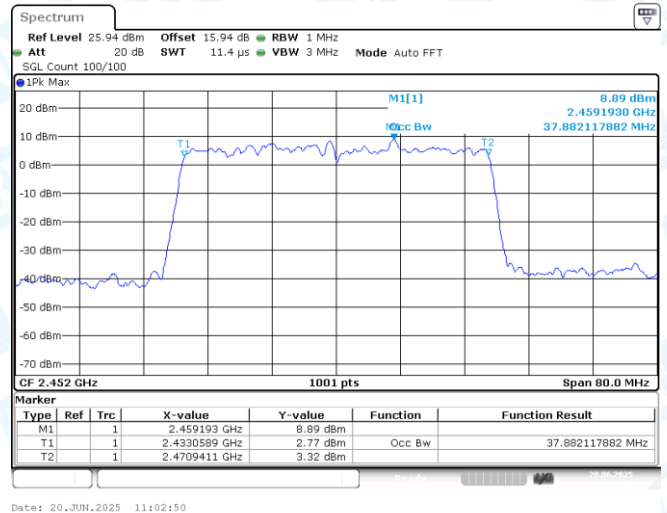
11AX20SISO-Ant1-2462



11AX40SISO-Ant1-2422



11AX40SISO-Ant1-2437



11AX40SISO-Ant1-2452

3: Maximum conducted output power

3.1 Test Result Average

Test Mode	Ant.	Frequency [MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.55	≤30.00	PASS
11B	Ant1	2437	14.95	≤30.00	PASS
11B	Ant1	2462	15.11	≤30.00	PASS
11G	Ant1	2412	14.24	≤30.00	PASS
11G	Ant1	2437	14.22	≤30.00	PASS
11G	Ant1	2462	14.31	≤30.00	PASS
11N20SISO	Ant1	2412	14.13	≤30.00	PASS
11N20SISO	Ant1	2437	14.18	≤30.00	PASS
11N20SISO	Ant1	2462	14.42	≤30.00	PASS
11N40SISO	Ant1	2422	14.39	≤30.00	PASS
11N40SISO	Ant1	2437	14.55	≤30.00	PASS
11N40SISO	Ant1	2452	14.75	≤30.00	PASS
11AX20SISO	Ant1	2412	14.27	≤30.00	PASS
11AX20SISO	Ant1	2437	14.40	≤30.00	PASS
11AX20SISO	Ant1	2462	14.43	≤30.00	PASS
11AX40SISO	Ant1	2422	13.24	≤30.00	PASS
11AX40SISO	Ant1	2437	14.89	≤30.00	PASS
11AX40SISO	Ant1	2452	15.08	≤30.00	PASS

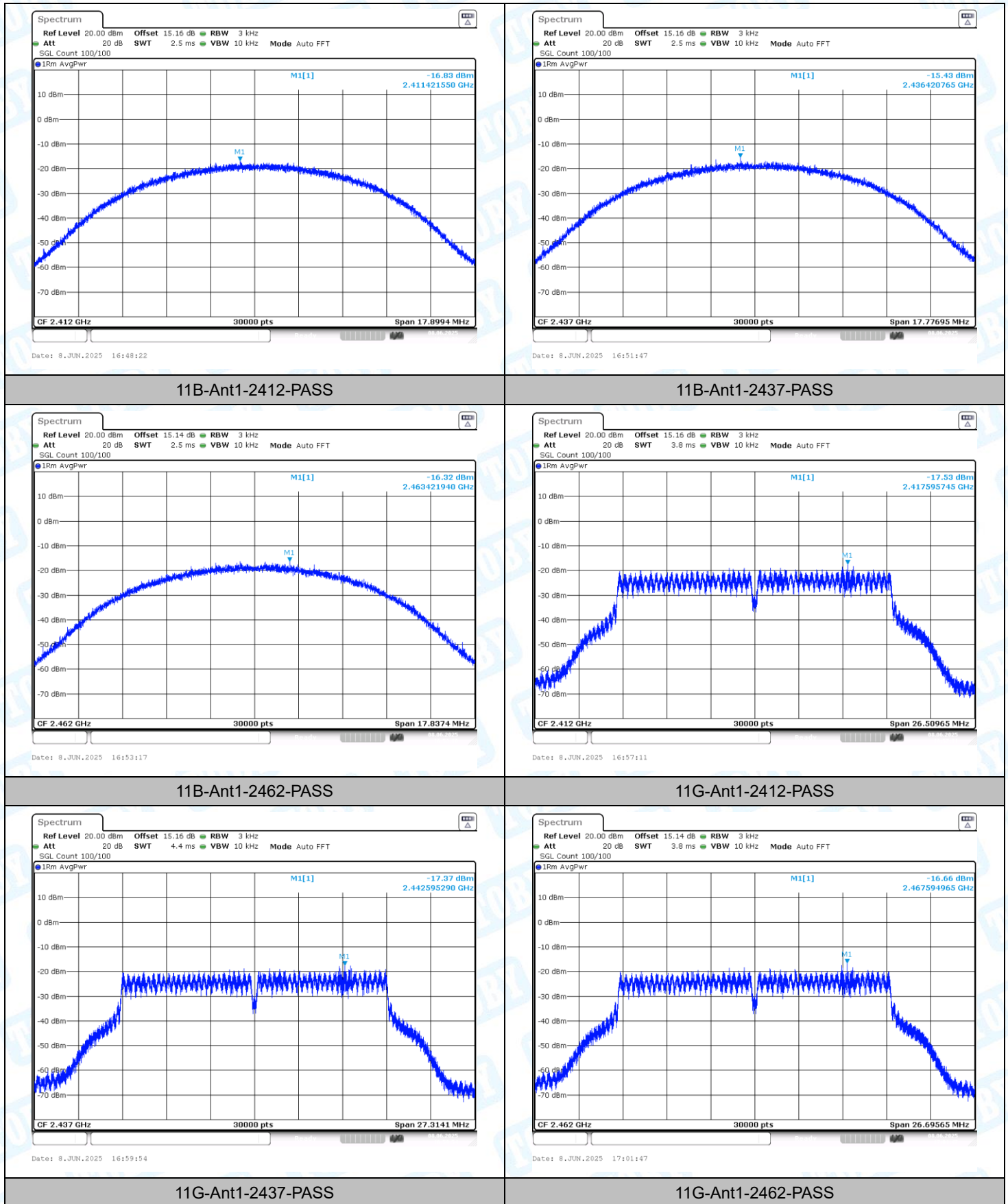
Note: The Duty Cycle Factor is compensated in the graph.

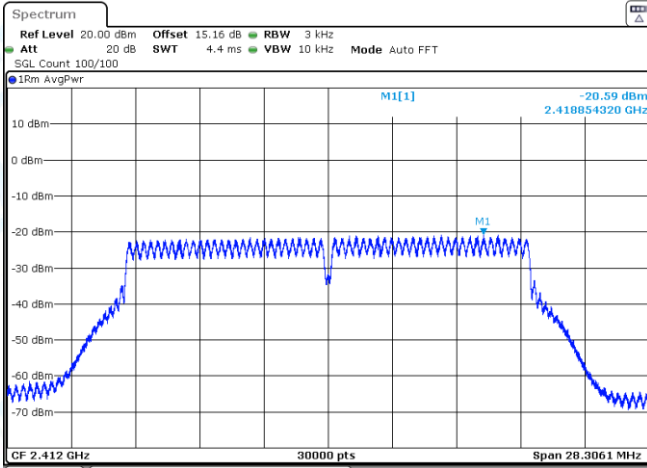
4: Maximum power spectral density

4.1 Test Result

TestMode	Ant.	Frequency[MHz]	RawData [dBm/3kHz]	DC Factory	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-16.83	0.11	-16.72	≤8.00	PASS
11B	Ant1	2437	-15.43	0.11	-15.32	≤8.00	PASS
11B	Ant1	2462	-16.32	0.11	-16.21	≤8.00	PASS
11G	Ant1	2412	-17.53	0.29	-17.24	≤8.00	PASS
11G	Ant1	2437	-17.37	0.31	-17.06	≤8.00	PASS
11G	Ant1	2462	-16.66	0.31	-16.35	≤8.00	PASS
11N20SISO	Ant1	2412	-20.59	0.04	-20.55	≤8.00	PASS
11N20SISO	Ant1	2437	-20.78	0.05	-20.73	≤8.00	PASS
11N20SISO	Ant1	2462	-20.52	0.05	-20.47	≤8.00	PASS
11N40SISO	Ant1	2422	-16.84	0.23	-16.61	≤8.00	PASS
11N40SISO	Ant1	2437	-16.31	0.51	-15.80	≤8.00	PASS
11N40SISO	Ant1	2452	-16.58	0.51	-16.07	≤8.00	PASS
11AX20SISO	Ant1	2412	-20.61	0.31	-20.30	≤8.00	PASS
11AX20SISO	Ant1	2437	-20.45	0.33	-20.12	≤8.00	PASS
11AX20SISO	Ant1	2462	-20.13	0.33	-19.80	≤8.00	PASS
11AX40SISO	Ant1	2422	-17.41	0.51	-16.90	≤8.00	PASS
11AX40SISO	Ant1	2437	-15.88	0.55	-15.33	≤8.00	PASS
11AX40SISO	Ant1	2452	-18.11	3.68	-14.43	≤8.00	PASS

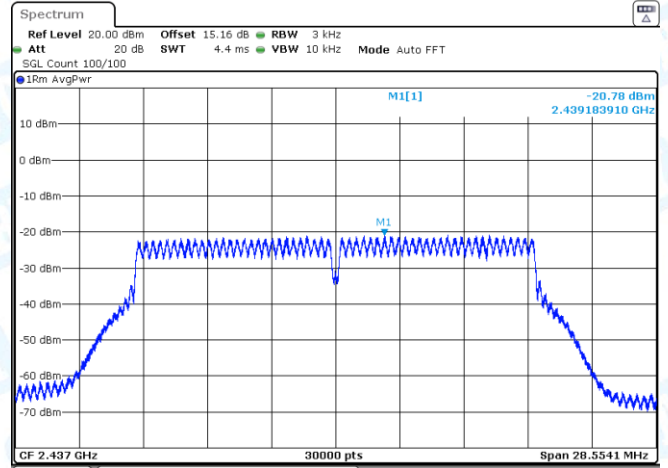
4.2 Test Graphs





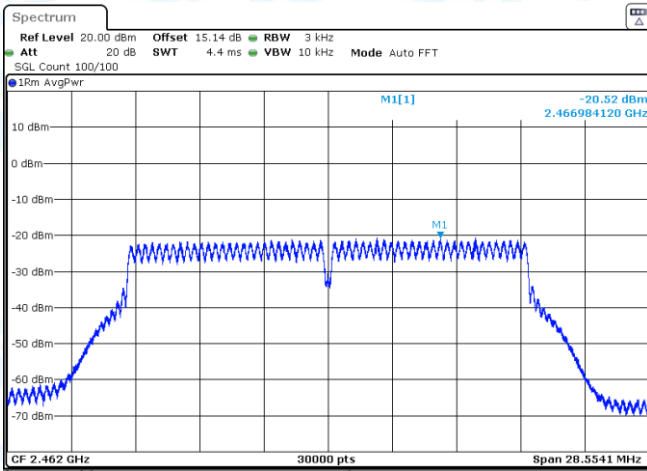
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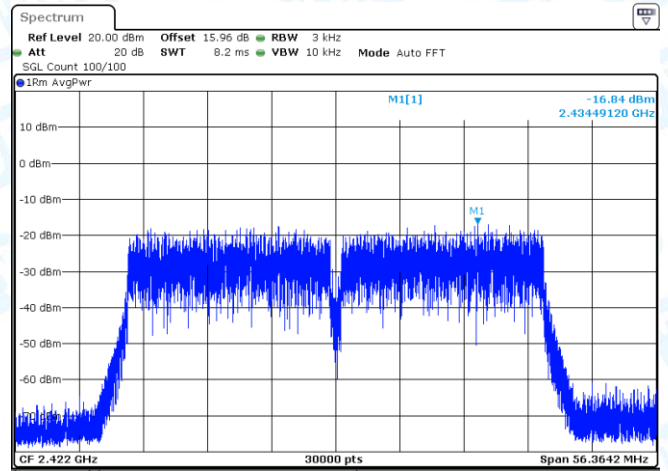
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11N20SISO-Ant1-2437-PASS



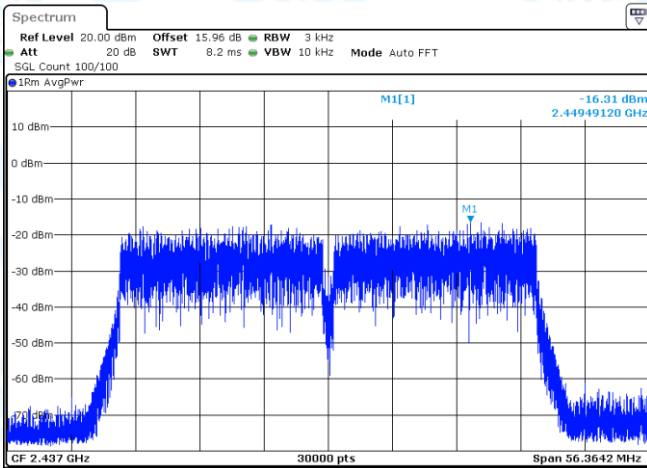
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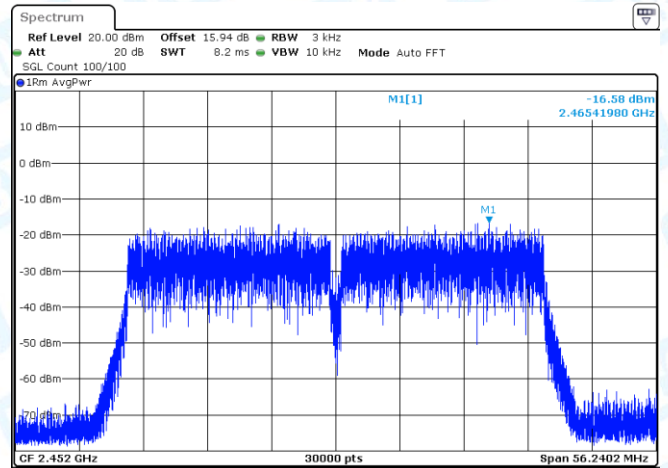
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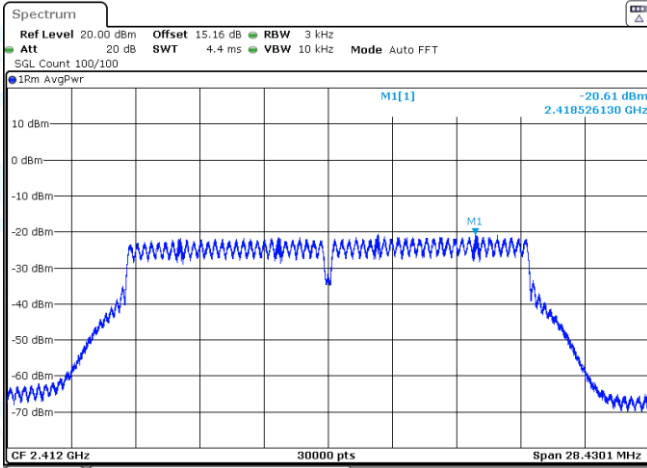
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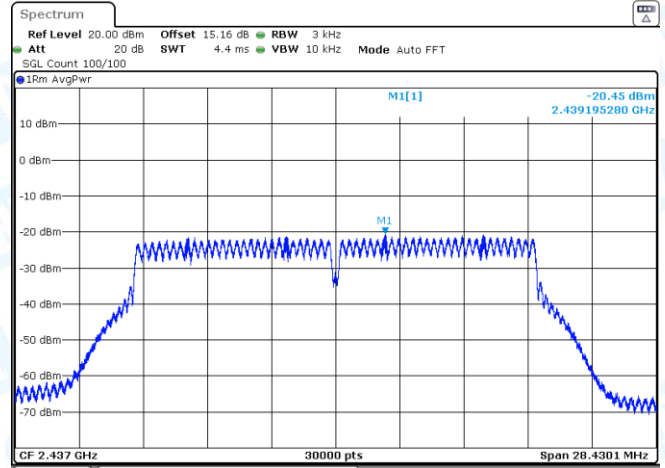
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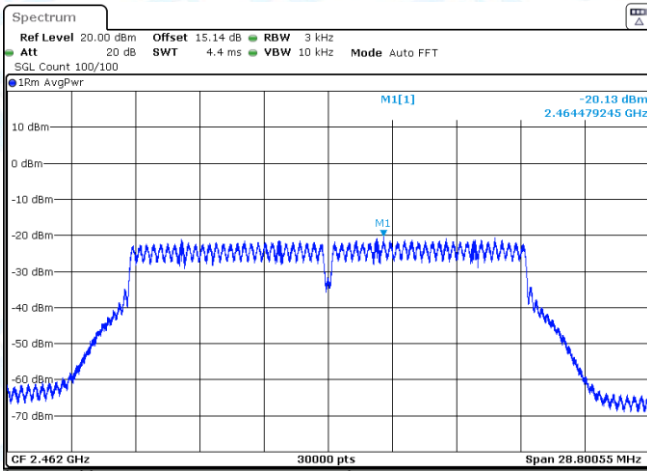
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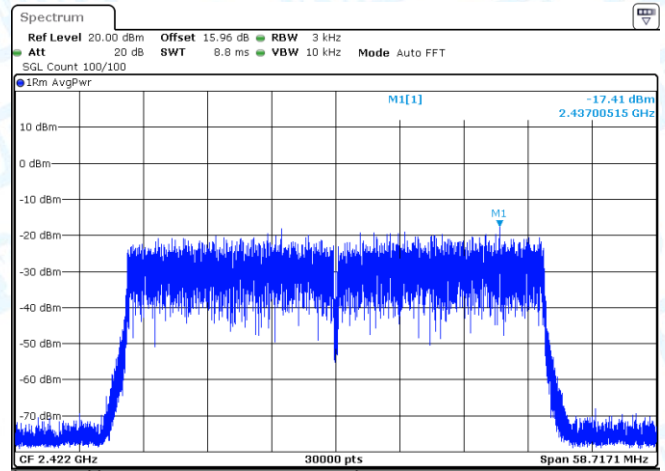
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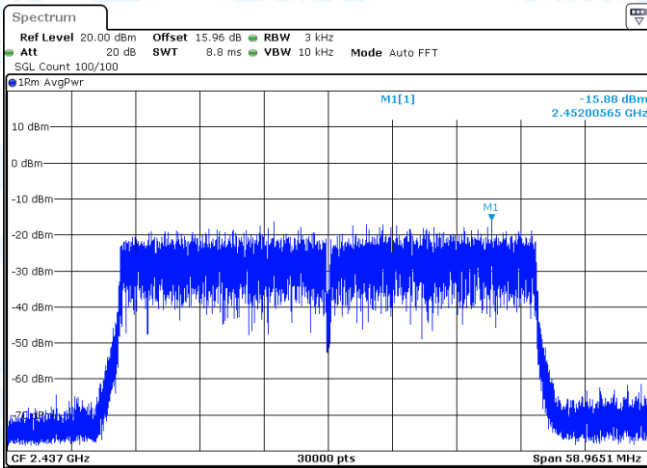
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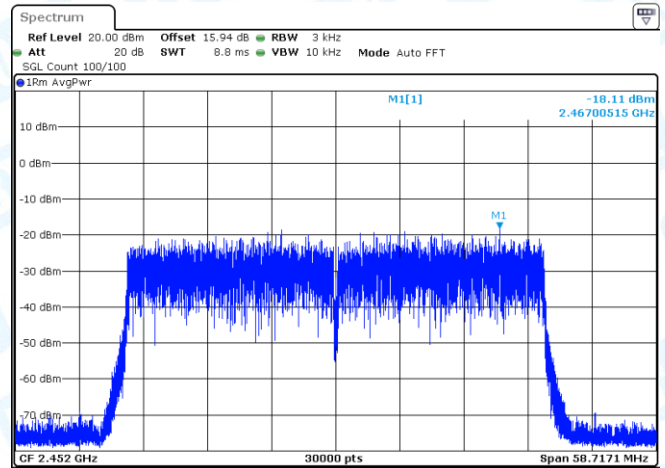
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11AX40SISO-Ant1-2422-PASS



Date: 20.JUN.2025 10:59:17

11AX40SISO-Ant1-2437-PASS



Date: 20.JUN.2025 11:04:00

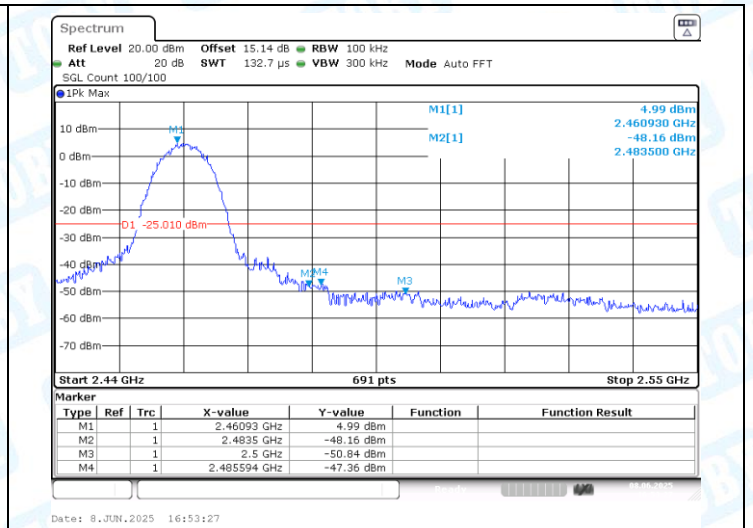
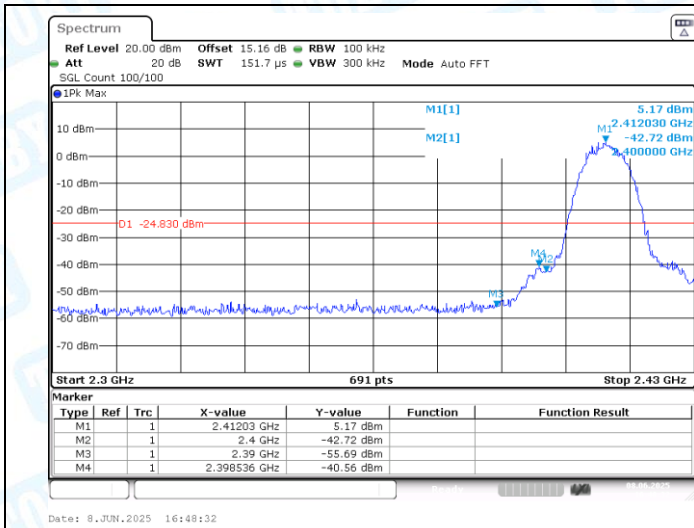
11AX40SISO-Ant1-2452-PASS

5: Band edge measurements

5.1 Test Result

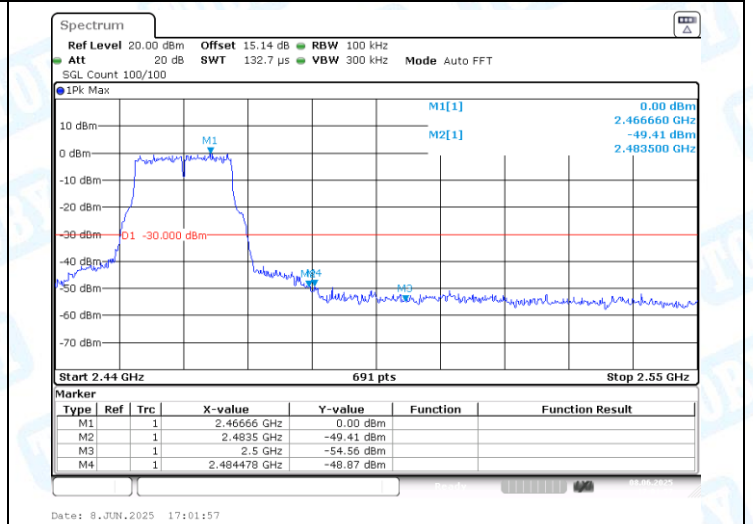
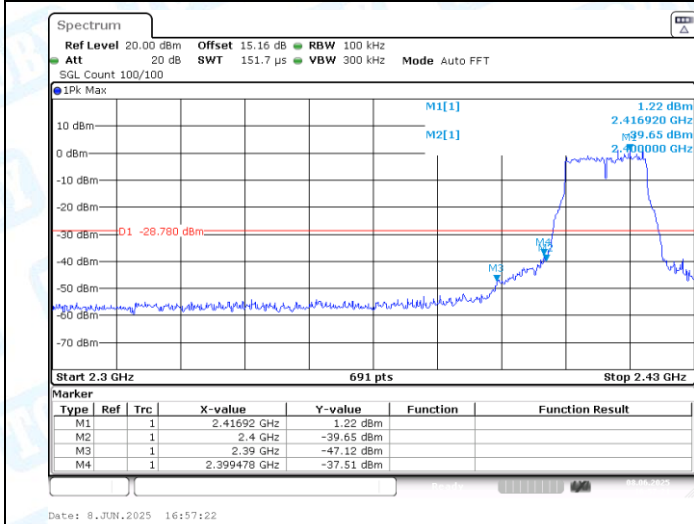
TestMode	Ant.	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.17	-40.56	≤-24.83	PASS
11B	Ant1	High	2462	4.99	-47.36	≤-25.01	PASS
11G	Ant1	Low	2412	1.22	-37.51	≤-28.78	PASS
11G	Ant1	High	2462	0.00	-48.87	≤-30	PASS
11N20SISO	Ant1	Low	2412	-1.23	-38.78	≤-31.23	PASS
11N20SISO	Ant1	High	2462	1.02	-47.47	≤-28.98	PASS
11N40SISO	Ant1	Low	2422	0.07	-47.48	≤-29.93	PASS
11N40SISO	Ant1	High	2452	-0.08	-42.25	≤-30.08	PASS
11AX20SISO	Ant1	Low	2412	0.25	-37.95	≤-29.75	PASS
11AX20SISO	Ant1	High	2462	-0.52	-46.21	≤-30.52	PASS
11AX40SISO	Ant1	Low	2422	-2.30	-49.17	≤-32.3	PASS
11AX40SISO	Ant1	High	2452	-2.42	-48.48	≤-32.42	PASS

5.2 Test Graphs



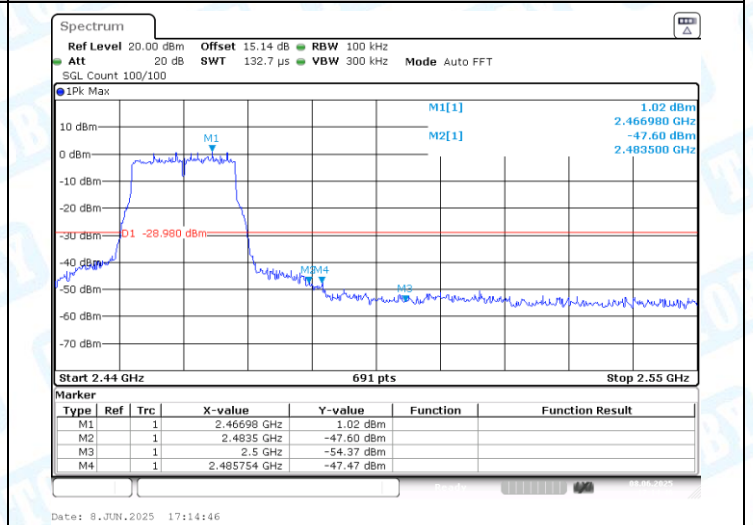
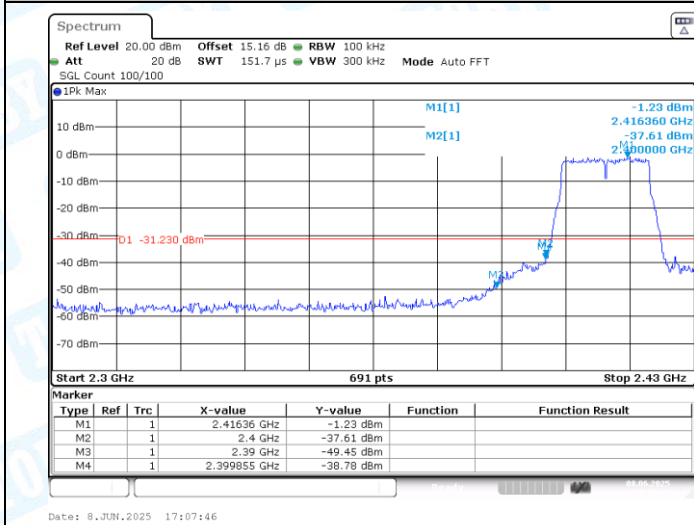
11B-Ant1-2412-PASS

11B-Ant1-2462-PASS



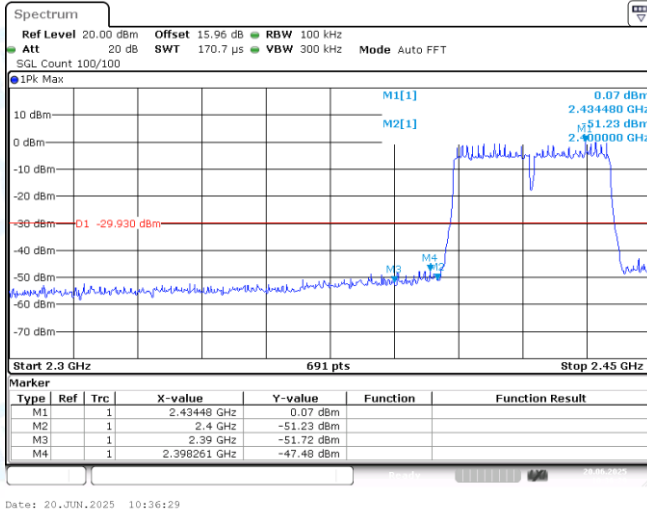
11G-Ant1-2412-PASS

11G-Ant1-2462-PASS

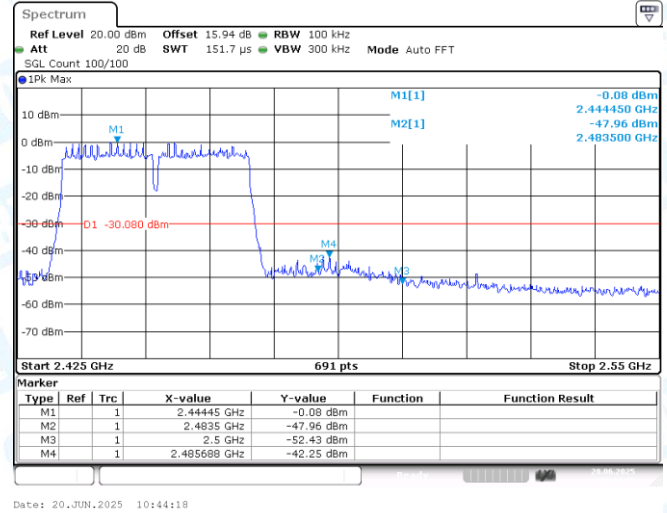


11N20SISO-Ant1-2412-PASS

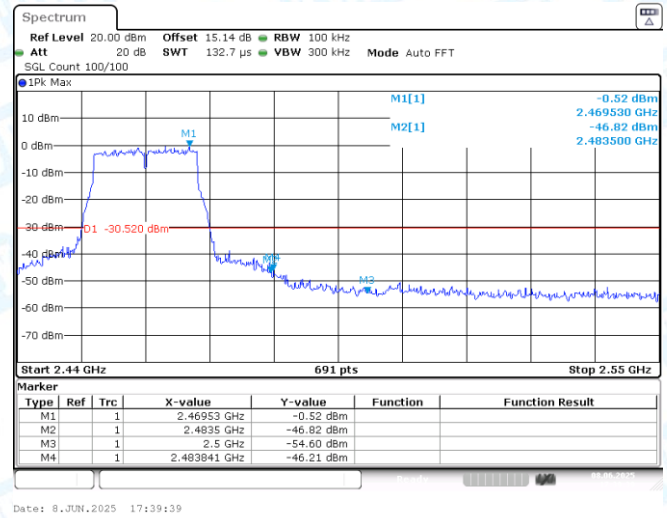
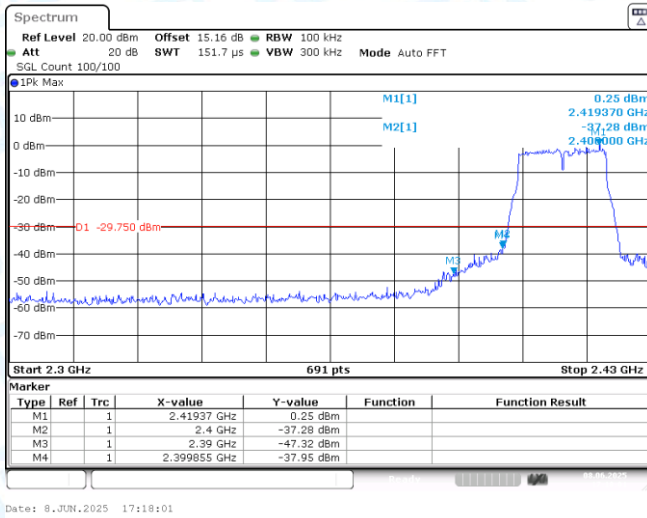
11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS

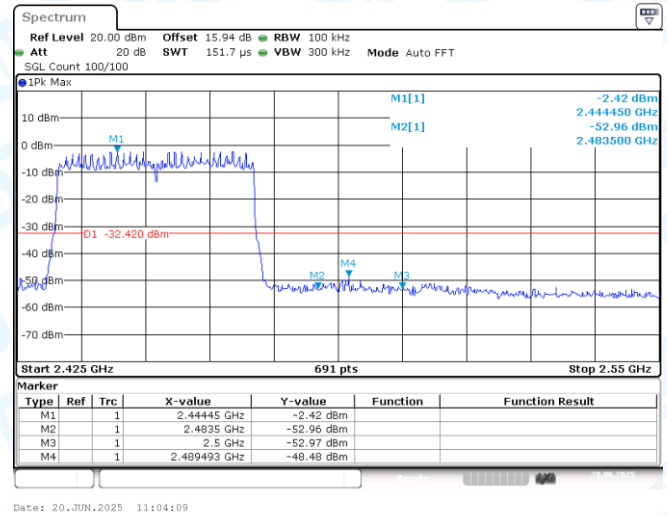
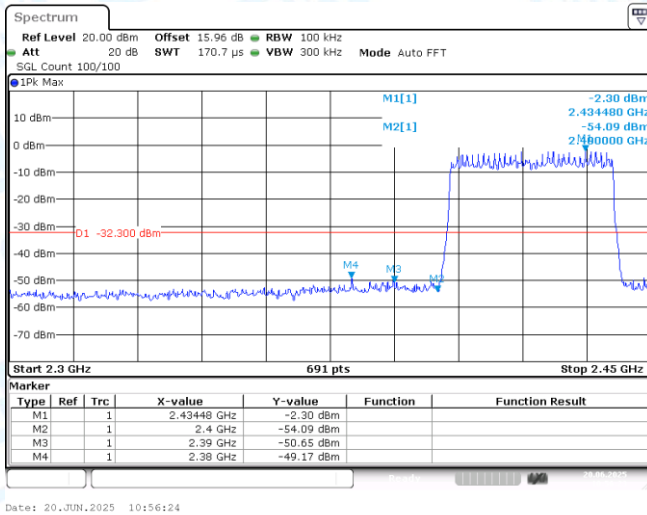


11N40SISO-Ant1-2452-PASS



11AX20SISO-Ant1-2412-PASS

11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS

11AX40SISO-Ant1-2452-PASS

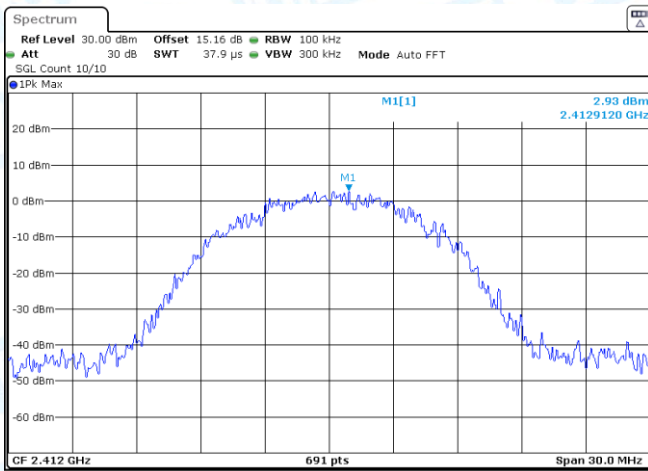
6: Conducted Spurious Emission

6.1 Test Result

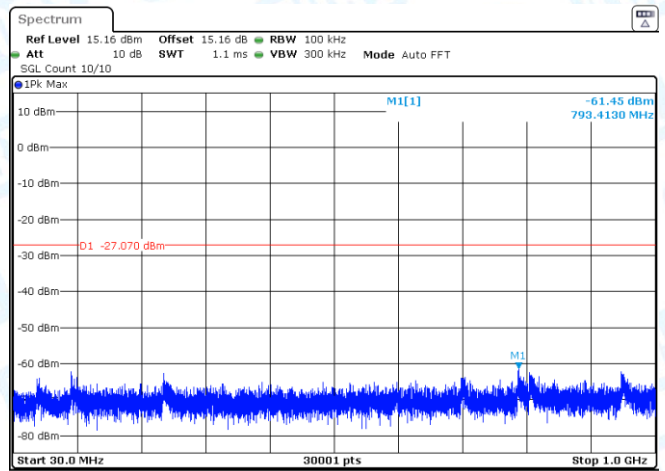
TestMode	Ant.	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	2.93	2.93	---	PASS
11B	Ant1	2412	30~1000	2.93	-61.45	≤-27.07	PASS
11B	Ant1	2412	1000~26500	2.93	-55.69	≤-27.07	PASS
11B	Ant1	2437	0~Reference	5.66	5.66	---	PASS
11B	Ant1	2437	30~1000	5.66	-62.06	≤-24.34	PASS
11B	Ant1	2437	1000~26500	5.66	-54.95	≤-24.34	PASS
11B	Ant1	2462	0~Reference	4.54	4.54	---	PASS
11B	Ant1	2462	30~1000	4.54	-59.27	≤-25.46	PASS
11B	Ant1	2462	1000~26500	4.54	-55.76	≤-25.46	PASS
11G	Ant1	2412	0~Reference	-1.97	-1.97	---	PASS
11G	Ant1	2412	30~1000	-1.97	-62.47	≤-31.97	PASS
11G	Ant1	2412	1000~26500	-1.97	-56.12	≤-31.97	PASS
11G	Ant1	2437	0~Reference	-1.01	-1.01	---	PASS
11G	Ant1	2437	30~1000	-1.01	-61.39	≤-31.01	PASS
11G	Ant1	2437	1000~26500	-1.01	-55.87	≤-31.01	PASS
11G	Ant1	2462	0~Reference	-1.32	-1.32	---	PASS
11G	Ant1	2462	30~1000	-1.32	-62.31	≤-31.32	PASS
11G	Ant1	2462	1000~26500	-1.32	-55.74	≤-31.32	PASS
11N20SISO	Ant1	2412	0~Reference	-1.55	-1.55	---	PASS
11N20SISO	Ant1	2412	30~1000	-1.55	-62.03	≤-31.55	PASS
11N20SISO	Ant1	2412	1000~26500	-1.55	-56.03	≤-31.55	PASS
11N20SISO	Ant1	2437	0~Reference	-1.26	-1.26	---	PASS
11N20SISO	Ant1	2437	30~1000	-1.26	-62.18	≤-31.26	PASS
11N20SISO	Ant1	2437	1000~26500	-1.26	-55.72	≤-31.26	PASS
11N20SISO	Ant1	2462	0~Reference	0.37	0.37	---	PASS
11N20SISO	Ant1	2462	30~1000	0.37	-58.9	≤-29.63	PASS
11N20SISO	Ant1	2462	1000~26500	0.37	-56.14	≤-29.63	PASS
11N40SISO	Ant1	2422	0~Reference	-1.30	-1.30	---	PASS
11N40SISO	Ant1	2422	30~1000	-1.30	-61.77	≤-31.3	PASS
11N40SISO	Ant1	2422	1000~26500	-1.30	-55.52	≤-31.3	PASS
11N40SISO	Ant1	2437	0~Reference	-0.78	-0.78	---	PASS
11N40SISO	Ant1	2437	30~1000	-0.78	-61.47	≤-30.78	PASS
11N40SISO	Ant1	2437	1000~26500	-0.78	-55.33	≤-30.78	PASS
11N40SISO	Ant1	2452	0~Reference	-0.06	-0.06	---	PASS
11N40SISO	Ant1	2452	30~1000	-0.06	-61.42	≤-30.06	PASS
11N40SISO	Ant1	2452	1000~26500	-0.06	-55.28	≤-30.06	PASS
11AX20SISO	Ant1	2412	0~Reference	-1.34	-1.34	---	PASS
11AX20SISO	Ant1	2412	30~1000	-1.34	-60.64	≤-31.34	PASS
11AX20SISO	Ant1	2412	1000~26500	-1.34	-56.62	≤-31.34	PASS
11AX20SISO	Ant1	2437	0~Reference	-1.65	-1.65	---	PASS

11AX20SISO	Ant1	2437	30~1000	-1.65	-61.07	≤-31.65	PASS
11AX20SISO	Ant1	2437	1000~26500	-1.65	-56.54	≤-31.65	PASS
11AX20SISO	Ant1	2462	0~Reference	-1.52	-1.52	---	PASS
11AX20SISO	Ant1	2462	30~1000	-1.52	-62.18	≤-31.52	PASS
11AX20SISO	Ant1	2462	1000~26500	-1.52	-56.55	≤-31.52	PASS
11AX40SISO	Ant1	2422	0~Reference	-4.78	-4.78	---	PASS
11AX40SISO	Ant1	2422	30~1000	-4.78	-61.55	≤-34.78	PASS
11AX40SISO	Ant1	2422	1000~26500	-4.78	-53.3	≤-34.78	PASS
11AX40SISO	Ant1	2437	0~Reference	-0.30	-0.30	---	PASS
11AX40SISO	Ant1	2437	30~1000	-0.30	-61.57	≤-30.3	PASS
11AX40SISO	Ant1	2437	1000~26500	-0.30	-55.6	≤-30.3	PASS
11AX40SISO	Ant1	2452	0~Reference	-3.87	-3.87	---	PASS
11AX40SISO	Ant1	2452	30~1000	-3.87	-60.79	≤-33.87	PASS
11AX40SISO	Ant1	2452	1000~26500	-3.87	-54.97	≤-33.87	PASS

6.2 Test Graphs



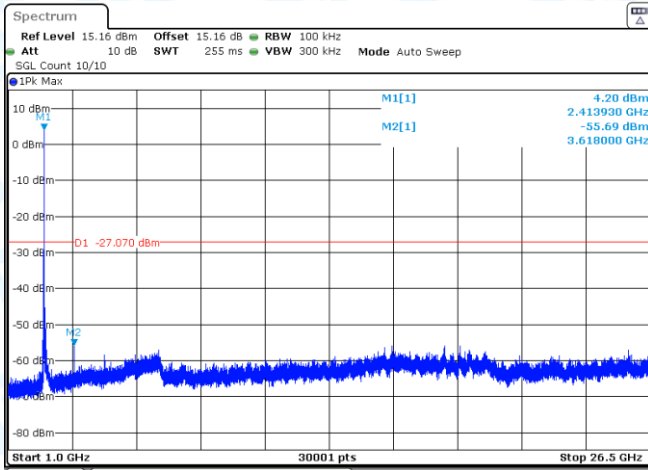
Date: 8.JUN.2025 16:49:02



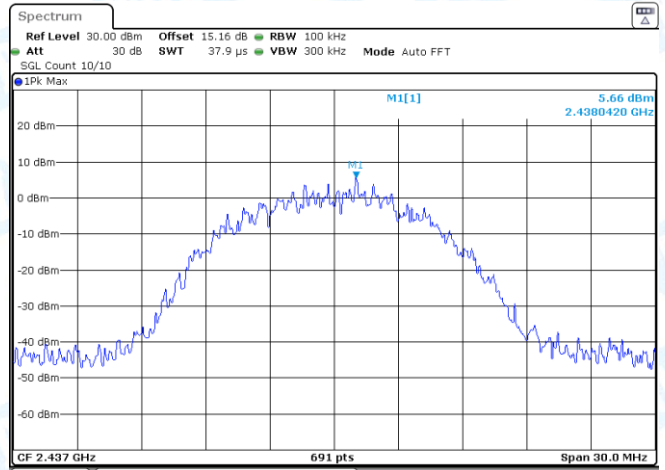
Date: 8.JUN.2025 16:49:11

11B-Ant1-2412-0~Reference-PASS

11B-Ant1-2412-30~1000-PASS



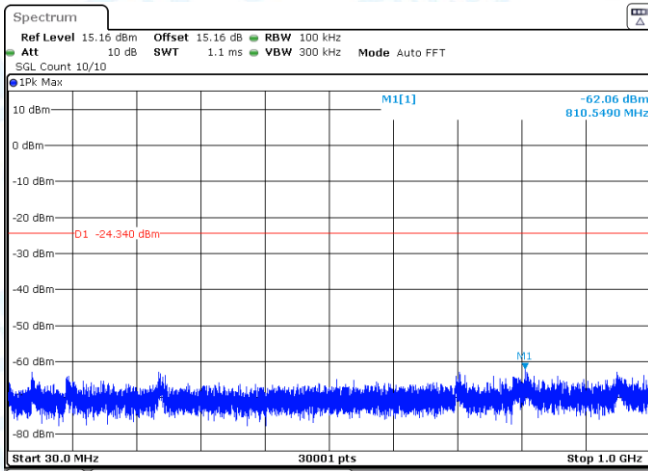
Date: 8.JUN.2025 16:49:29



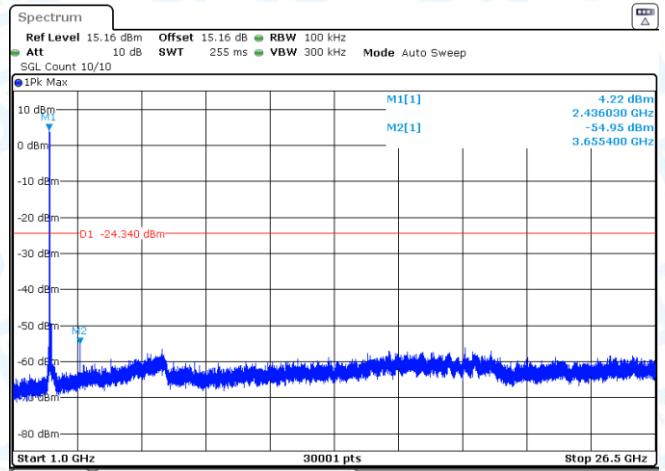
Date: 8.JUN.2025 16:51:52

11B-Ant1-2412-1000~26500-PASS

11B-Ant1-2437-0~Reference-PASS



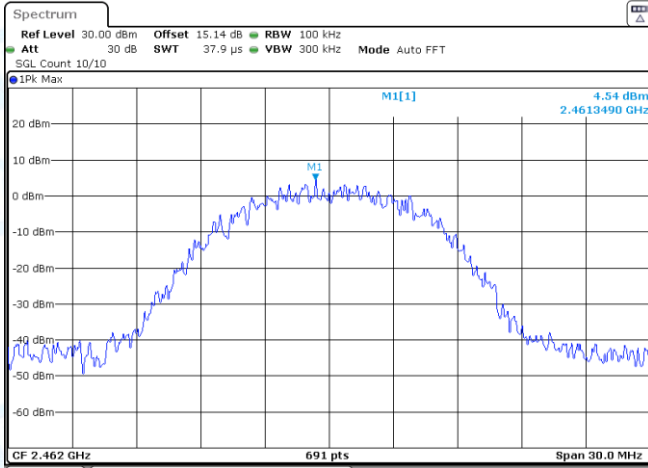
Date: 8.JUN.2025 16:52:01



Date: 8.JUN.2025 16:52:20

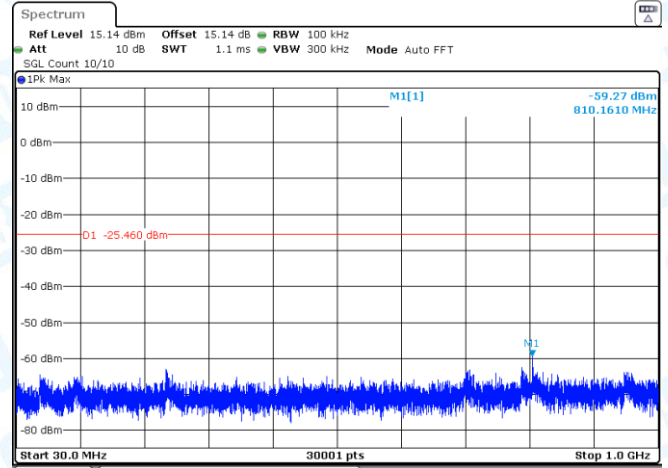
11B-Ant1-2437-30~1000-PASS

11B-Ant1-2437-1000~26500-PASS



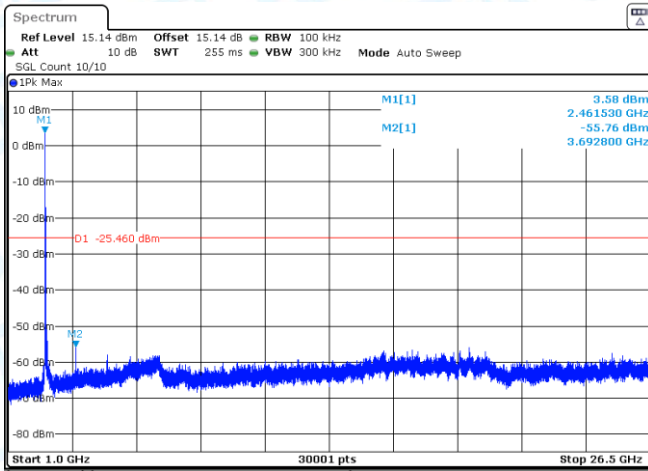
Date: 8.JUN.2025 16:54:05

11B-Ant1-2462-0~Reference-PASS



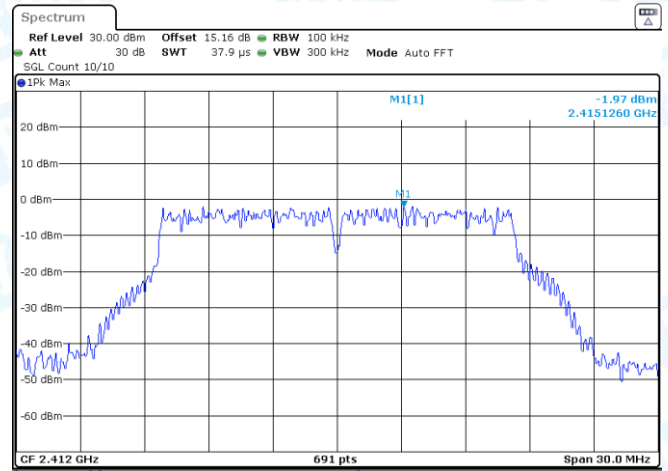
Date: 8.JUN.2025 16:54:14

11B-Ant1-2462-30~1000-PASS



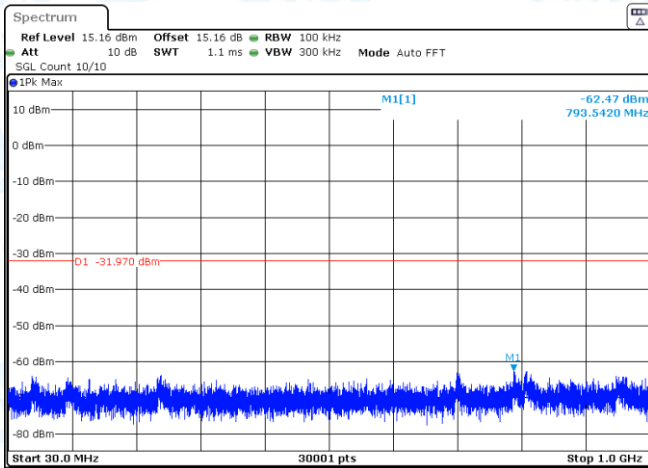
Date: 8.JUN.2025 16:54:32

11B-Ant1-2462-1000~26500-PASS



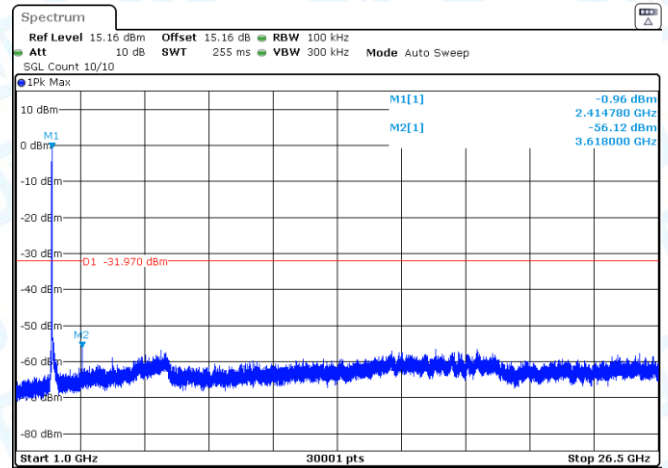
Date: 8.JUN.2025 16:57:52

11G-Ant1-2412-0~Reference-PASS



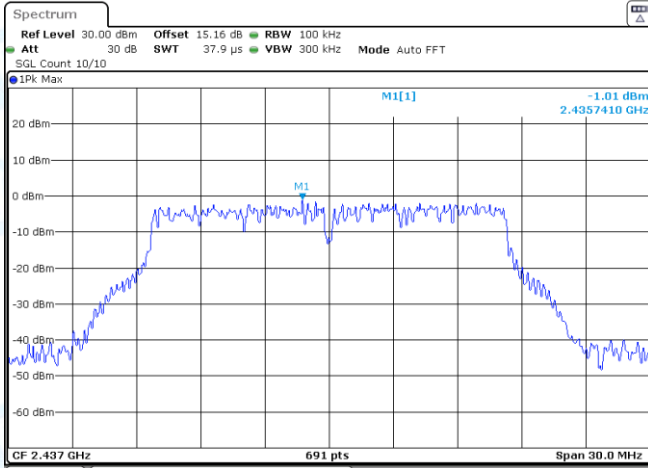
Date: 8.JUN.2025 16:58:01

11G-Ant1-2412-30~1000-PASS



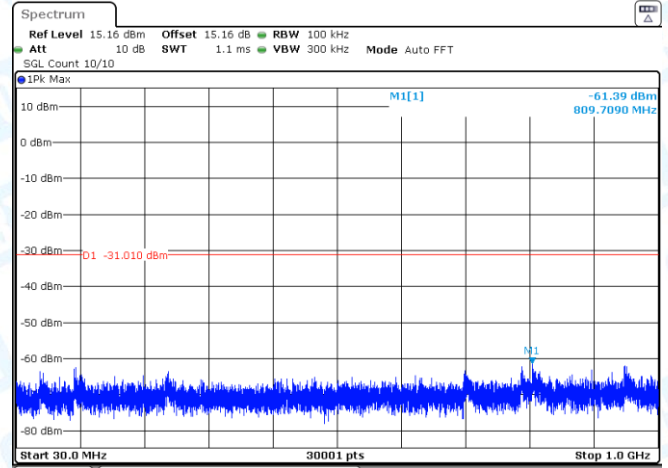
Date: 8.JUN.2025 16:58:19

11G-Ant1-2412-1000~26500-PASS



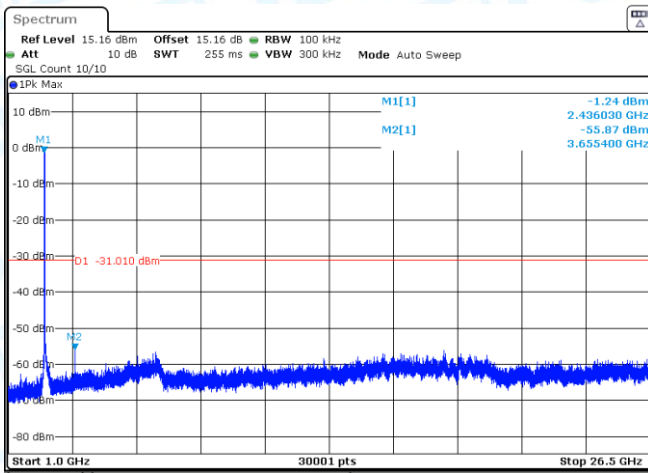
Date: 8 JUN.2025 17:00:00

11G-Ant1-2437-0~Reference-PASS



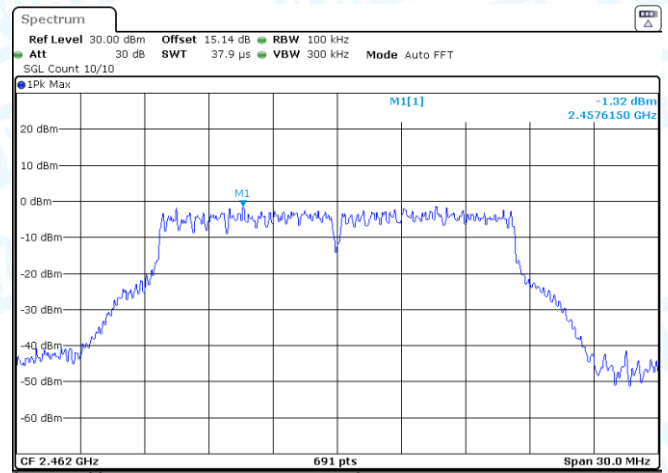
Date: 8 JUN.2025 17:00:08

11G-Ant1-2437-30~1000-PASS



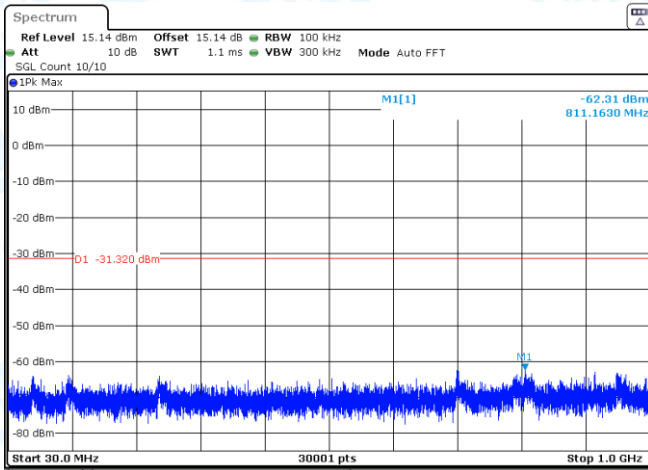
Date: 8 JUN.2025 17:00:27

11G-Ant1-2437-1000~26500-PASS



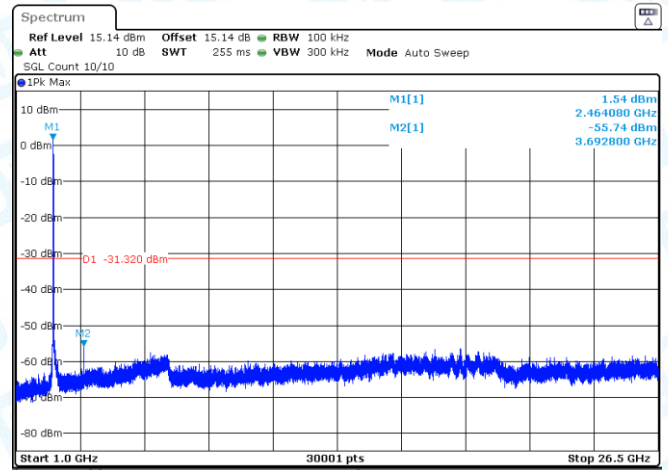
Date: 8 JUN.2025 17:02:35

11G-Ant1-2462-0~Reference-PASS



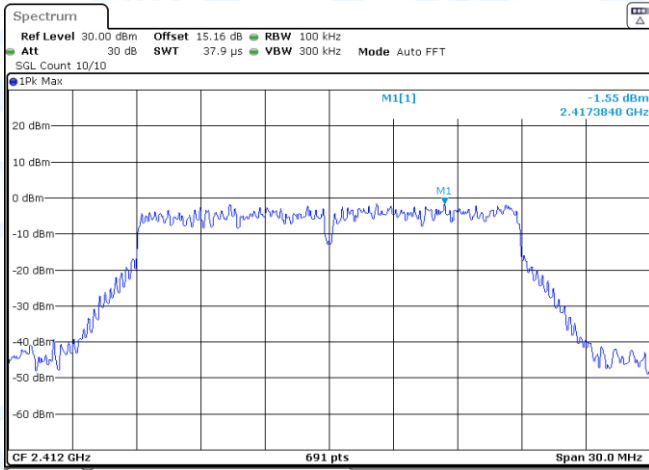
Date: 8 JUN.2025 17:02:44

11G-Ant1-2462-30~1000-PASS



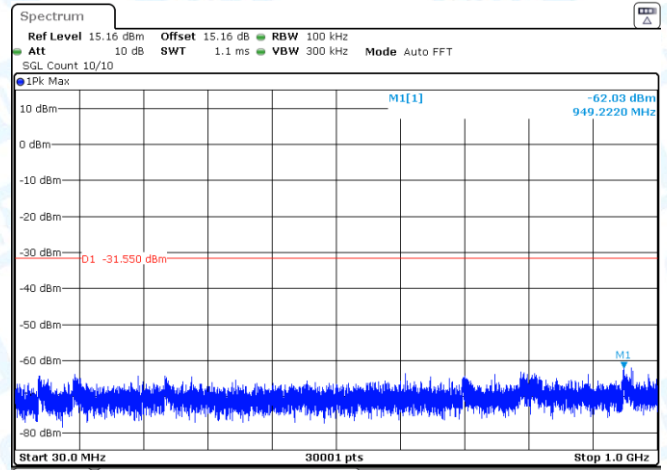
Date: 8 JUN.2025 17:03:02

11G-Ant1-2462-1000~26500-PASS



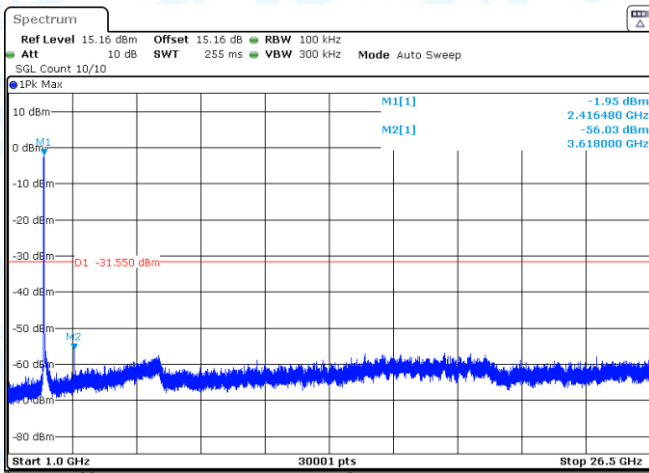
Date: 8.JUN.2025 17:08:17

11N20SISO-Ant1-2412-0~Reference-PASS



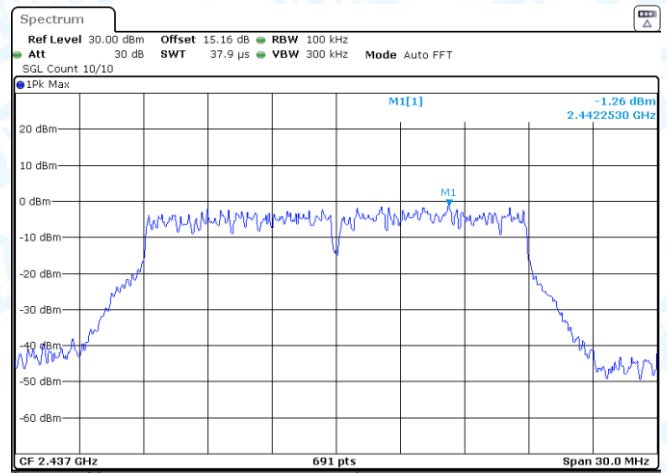
Date: 8.JUN.2025 17:08:26

11N20SISO-Ant1-2412-30~1000-PASS



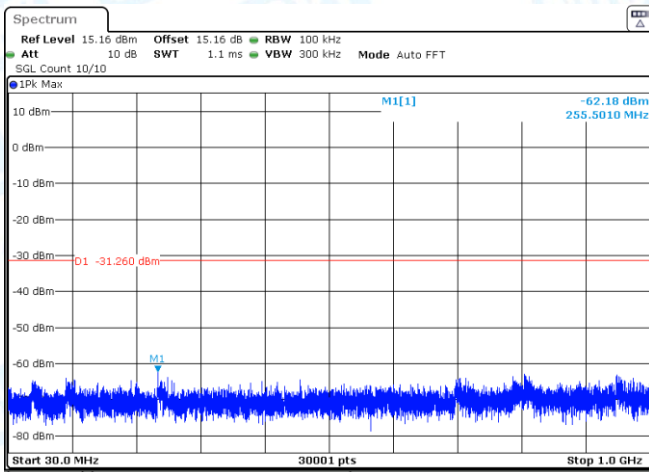
Date: 8.JUN.2025 17:08:44

11N20SISO-Ant1-2412-1000~26500-PASS



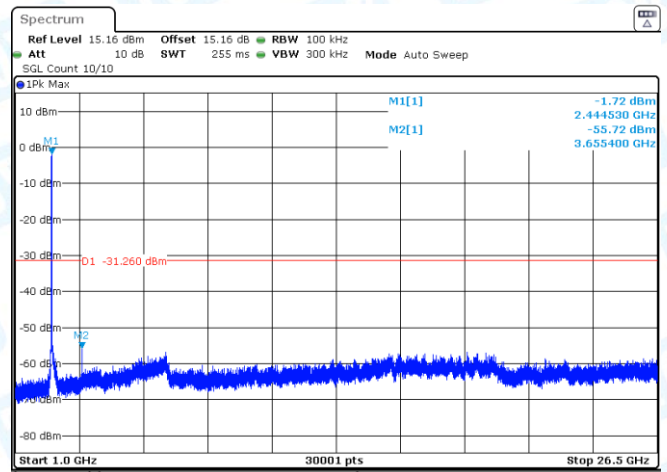
Date: 8.JUN.2025 17:12:54

11N20SISO-Ant1-2437-0~Reference-PASS



Date: 8.JUN.2025 17:13:03

11N20SISO-Ant1-2437-30~1000-PASS



Date: 8.JUN.2025 17:13:22

11N20SISO-Ant1-2437-1000~26500-PASS