

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

General Description of EUT	
EUT Name:	G01
Model:	G01
Sample ID:	HC-C-202602-0229-01-01-2#
Test Standard:	FCC Part 15.247
Environmental Conditions	
Ambient Temperature:	25°C
Ambient Humidity:	45%RH
Test Power Supply:	DC 3.7V
Test Engineer:	Gold. Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202602-0229-2	

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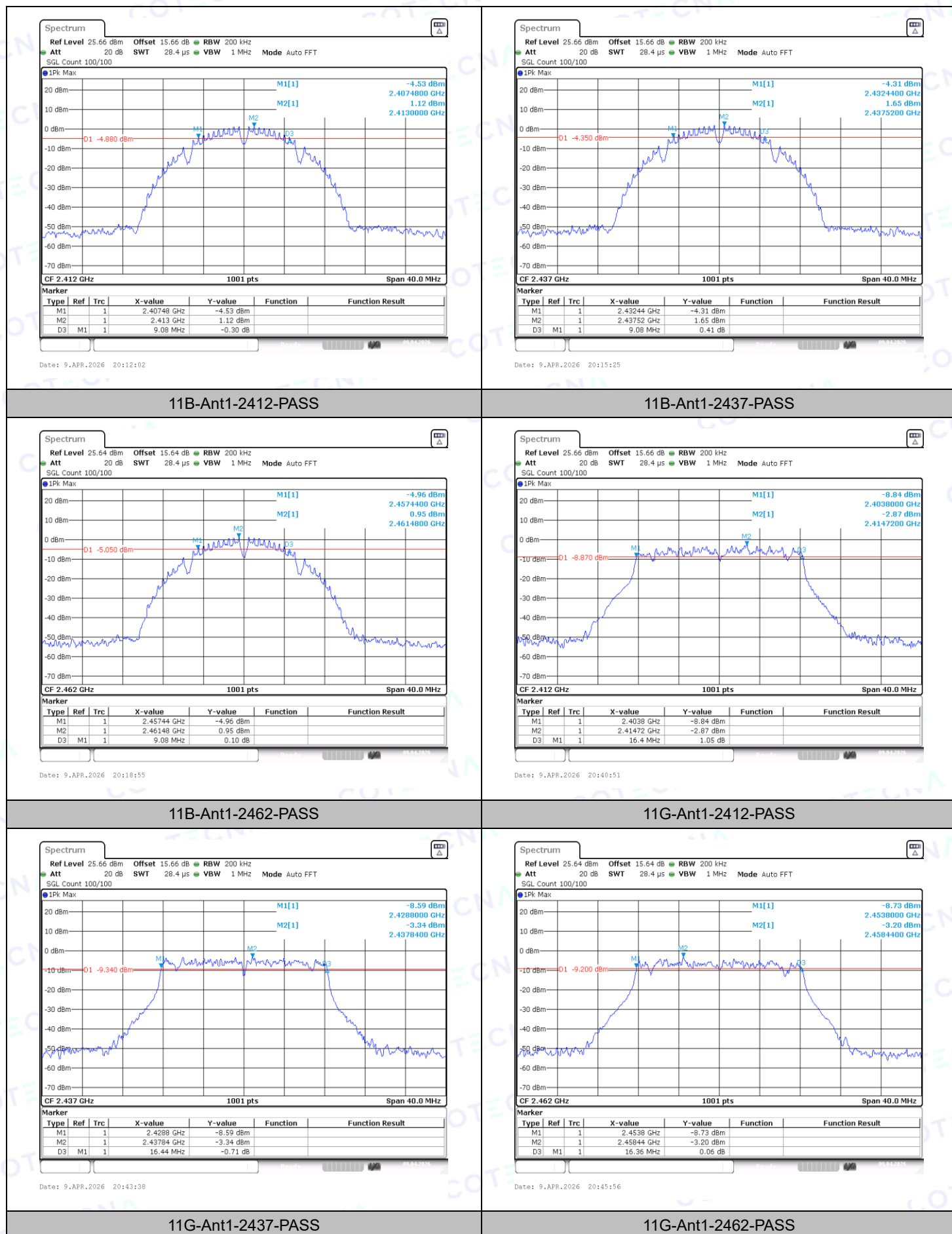
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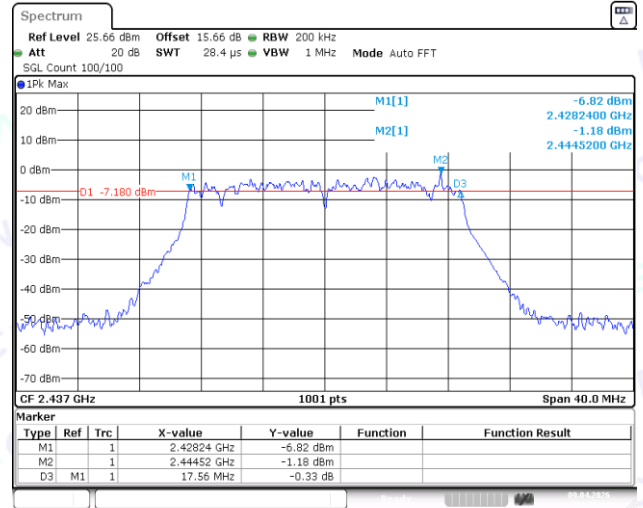
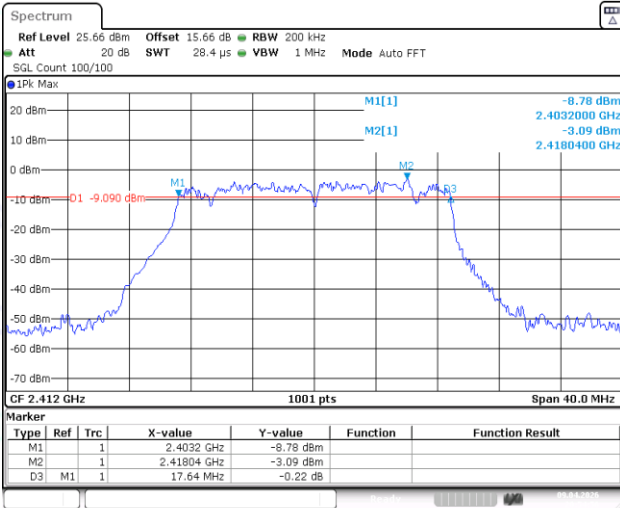
1: DTS Bandwidth

1.1 Test Result

TestMode	Ant.	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.08	2407.48	2416.56	0.5	PASS
11B	Ant1	2437	9.08	2432.44	2441.52	0.5	PASS
11B	Ant1	2462	9.08	2457.44	2466.52	0.5	PASS
11G	Ant1	2412	16.40	2403.80	2420.20	0.5	PASS
11G	Ant1	2437	16.44	2428.80	2445.24	0.5	PASS
11G	Ant1	2462	16.36	2453.80	2470.16	0.5	PASS
11N20SISO	Ant1	2412	17.64	2403.20	2420.84	0.5	PASS
11N20SISO	Ant1	2437	17.56	2428.24	2445.80	0.5	PASS
11N20SISO	Ant1	2462	17.08	2453.20	2470.28	0.5	PASS
11N40SISO	Ant1	2422	36.24	2403.92	2440.16	0.5	PASS
11N40SISO	Ant1	2437	35.92	2419.00	2454.92	0.5	PASS
11N40SISO	Ant1	2452	35.28	2434.00	2469.28	0.5	PASS

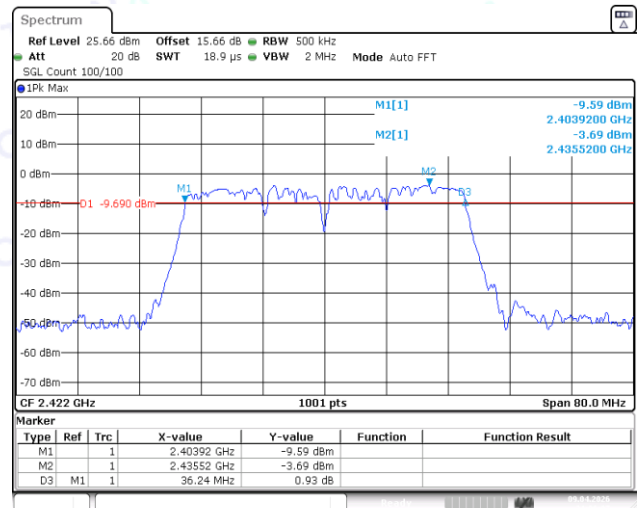
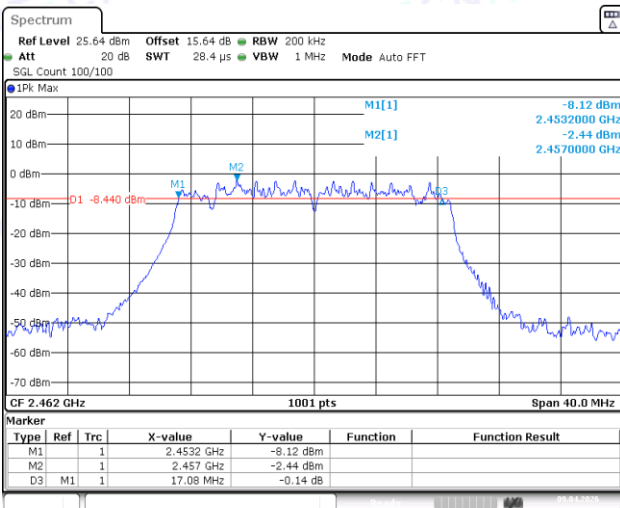
1.2 Test Graphs





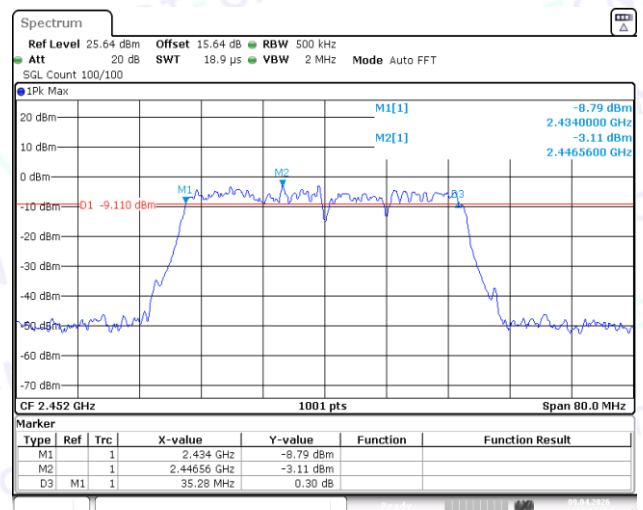
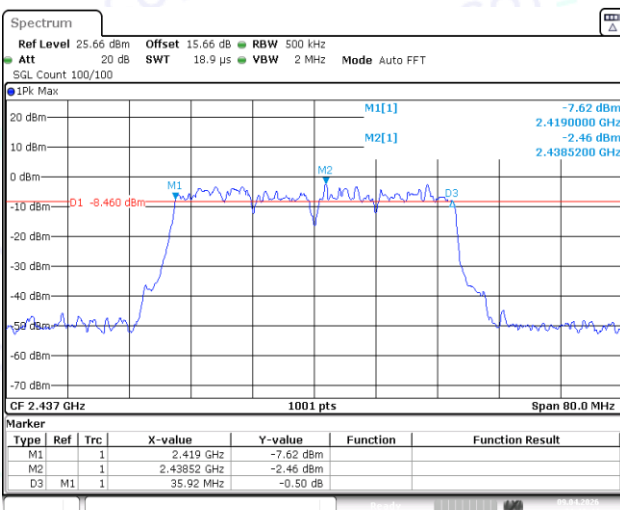
11N20SISO-Ant1-2412-PASS

11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS

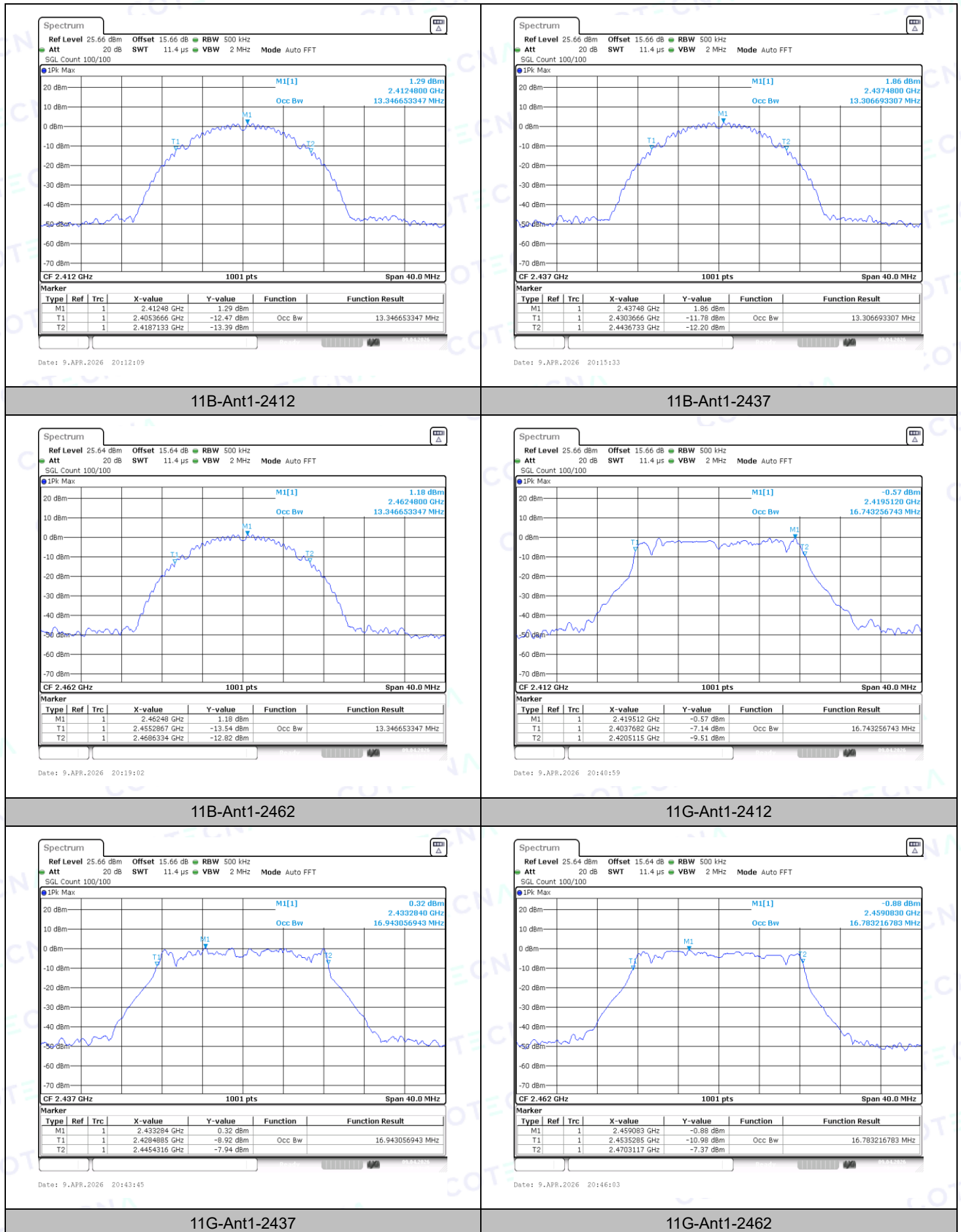
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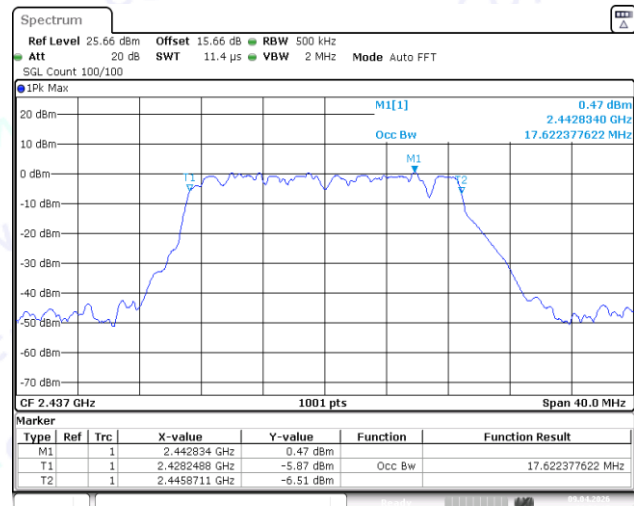
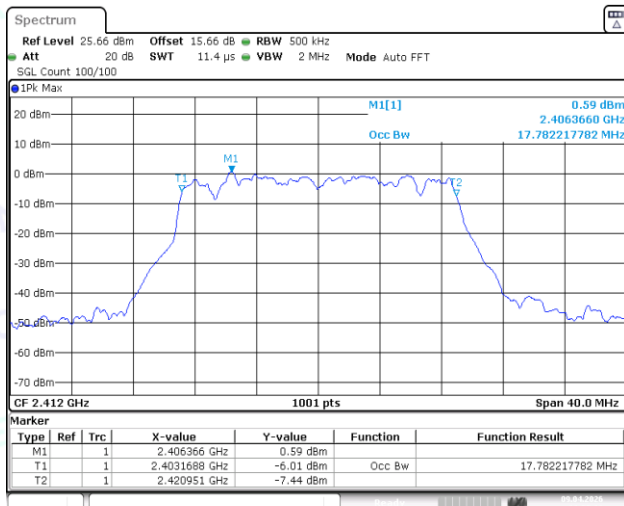
2: Occupied Channel Bandwidth

2.1 Test Result

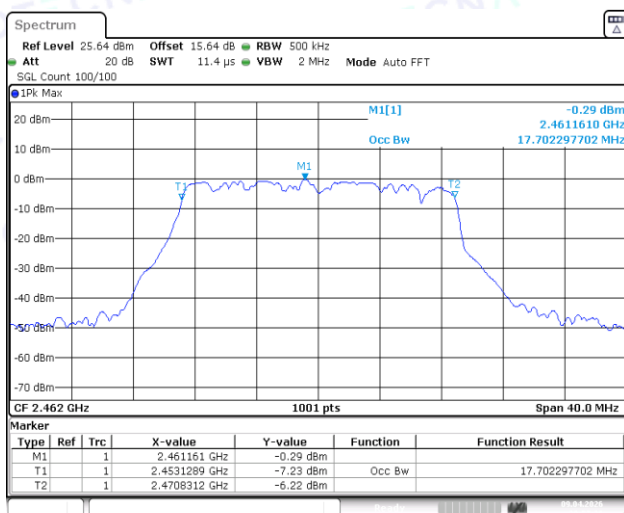
TestMode	Ant.	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.347	2405.3666	2418.7133	---	---
11B	Ant1	2437	13.307	2430.3666	2443.6733	---	---
11B	Ant1	2462	13.347	2455.2867	2468.6334	---	---
11G	Ant1	2412	16.743	2403.7682	2420.5115	---	---
11G	Ant1	2437	16.943	2428.4885	2445.4316	---	---
11G	Ant1	2462	16.783	2453.5285	2470.3117	---	---
11N20SISO	Ant1	2412	17.782	2403.1688	2420.9510	---	---
11N20SISO	Ant1	2437	17.622	2428.2488	2445.8711	---	---
11N20SISO	Ant1	2462	17.702	2453.1289	2470.8312	---	---
11N40SISO	Ant1	2422	36.204	2404.0979	2440.3017	---	---
11N40SISO	Ant1	2437	36.683	2418.6184	2455.3017	---	---
11N40SISO	Ant1	2452	36.124	2433.8581	2469.9820	---	---

2.2 Test Graphs

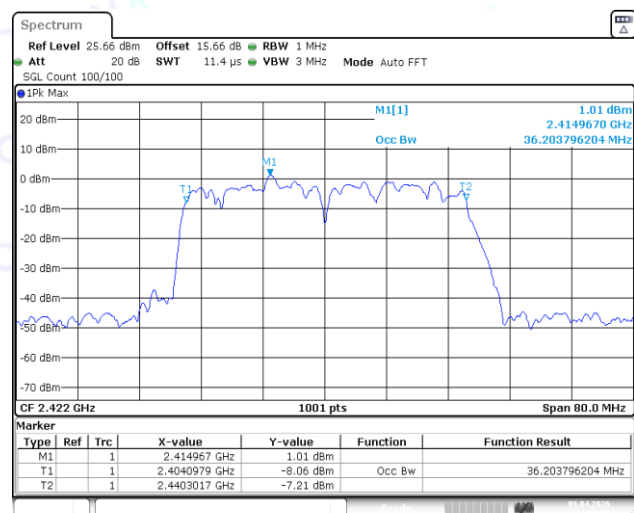




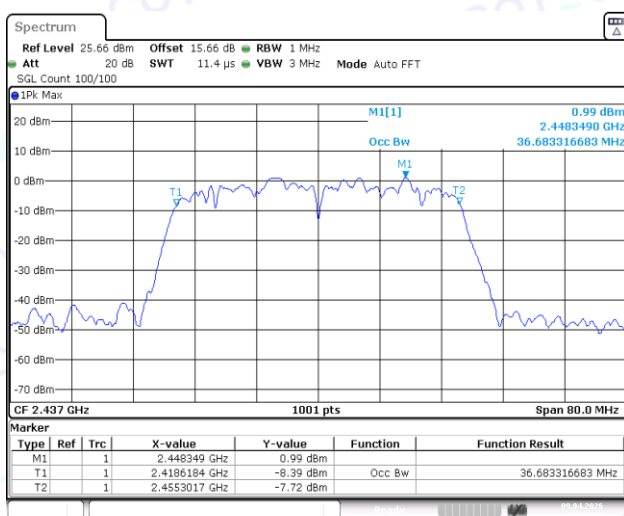
11N20SISO-Ant1-2412



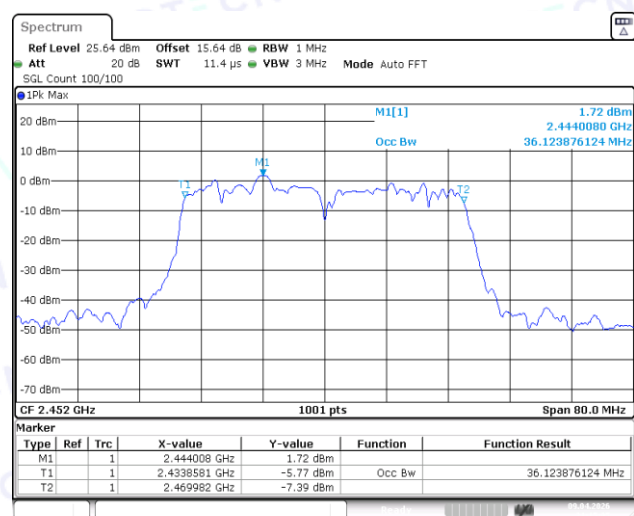
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11N20SISO-Ant1-2462



11N40SISO-Ant1-2422



11N40SISO-Ant1-2437

11N40SISO-Ant1-2452

3: Maximum conducted output power

3.1 Test Result Average

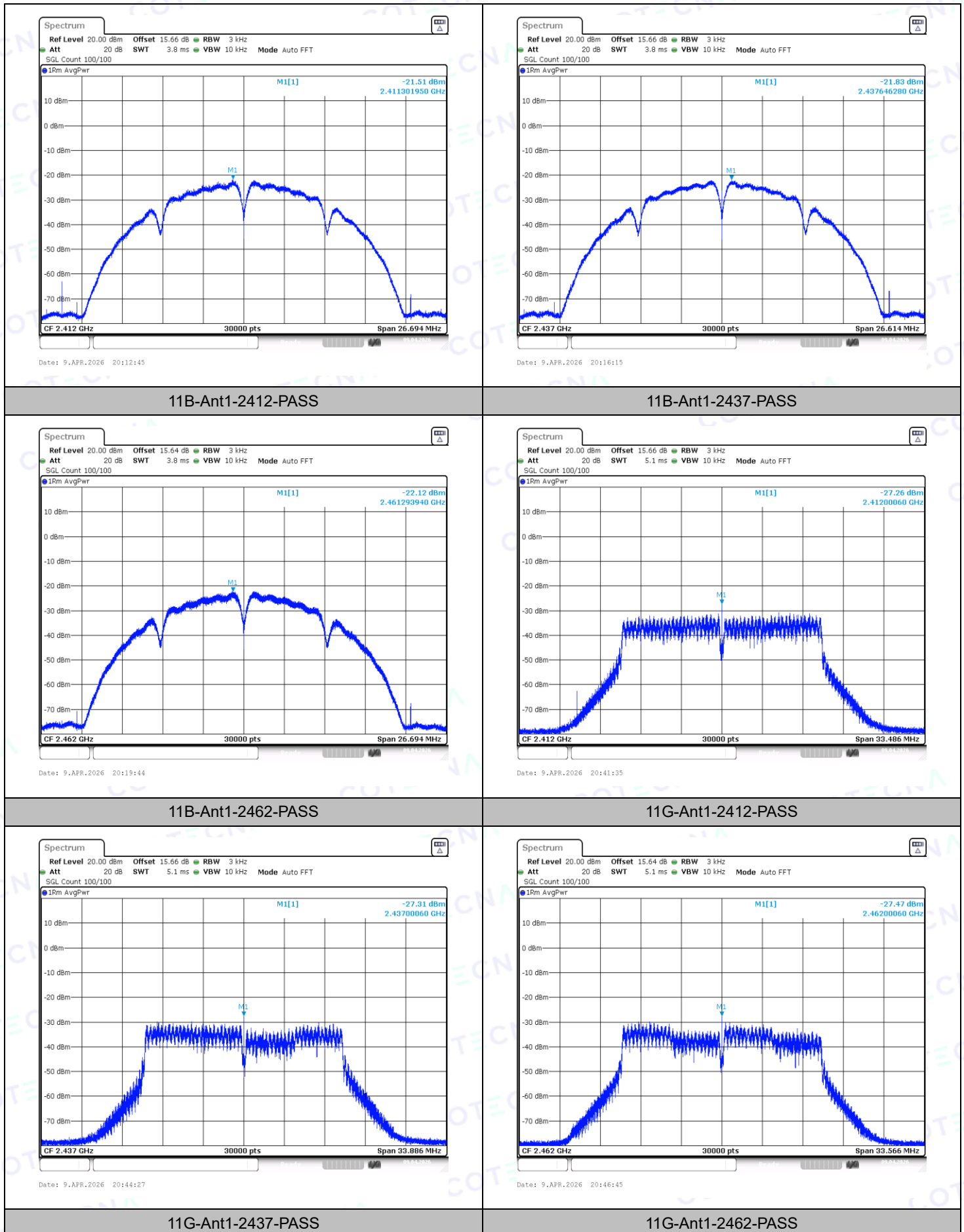
Test Mode	Ant.	Frequency [MHz]	Raw Power [dBm]	DC Factor	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	8.55	0.02	8.57	≤30.00	PASS
11B	Ant1	2437	8.96	0.02	8.98	≤30.00	PASS
11B	Ant1	2462	8.45	0.02	8.47	≤30.00	PASS
11G	Ant1	2412	0.76	7.44	8.20	≤30.00	PASS
11G	Ant1	2437	0.56	7.44	8.00	≤30.00	PASS
11G	Ant1	2462	-0.48	7.44	6.96	≤30.00	PASS
11N20SISO	Ant1	2412	1.26	7.00	8.26	≤30.00	PASS
11N20SISO	Ant1	2437	1.04	7.00	8.04	≤30.00	PASS
11N20SISO	Ant1	2462	1.22	7.00	8.22	≤30.00	PASS
11N40SISO	Ant1	2422	-3.38	10.79	7.41	≤30.00	PASS
11N40SISO	Ant1	2437	-1.89	10.79	8.90	≤30.00	PASS
11N40SISO	Ant1	2452	-2.14	10.79	8.65	≤30.00	PASS

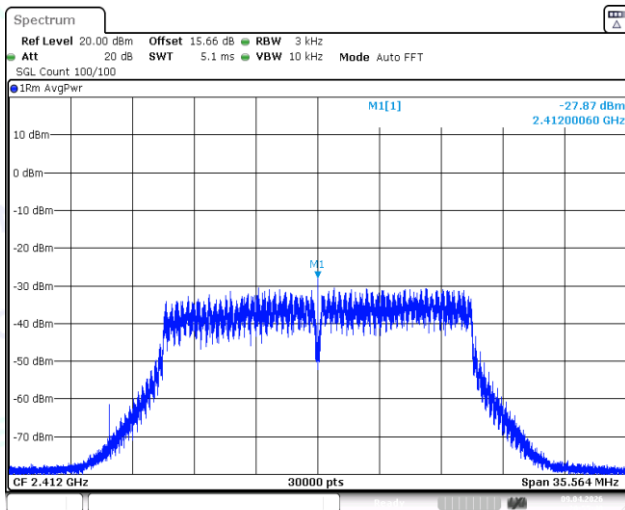
4: Maximum power spectral density

4.1 Test Result

TestMode	Ant.	Frequency[MHz]	RawData [dBm/3kHz]	DC Factor	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-21.51	0.02	-21.49	≤8.00	PASS
11B	Ant1	2437	-21.83	0.02	-21.81	≤8.00	PASS
11B	Ant1	2462	-22.12	0.02	-22.10	≤8.00	PASS
11G	Ant1	2412	-27.26	7.44	-19.82	≤8.00	PASS
11G	Ant1	2437	-27.31	7.44	-19.87	≤8.00	PASS
11G	Ant1	2462	-27.47	7.44	-20.03	≤8.00	PASS
11N20SISO	Ant1	2412	-27.87	7.00	-20.87	≤8.00	PASS
11N20SISO	Ant1	2437	-27.25	7.00	-20.25	≤8.00	PASS
11N20SISO	Ant1	2462	-28.06	7.00	-21.06	≤8.00	PASS
11N40SISO	Ant1	2422	-31.51	10.79	-20.72	≤8.00	PASS
11N40SISO	Ant1	2437	-31.41	10.79	-20.62	≤8.00	PASS
11N40SISO	Ant1	2452	-30.9	10.79	-20.11	≤8.00	PASS

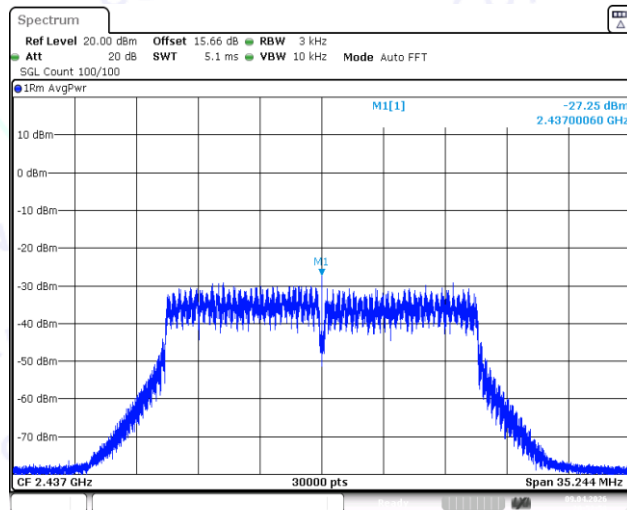
4.2 Test Graphs





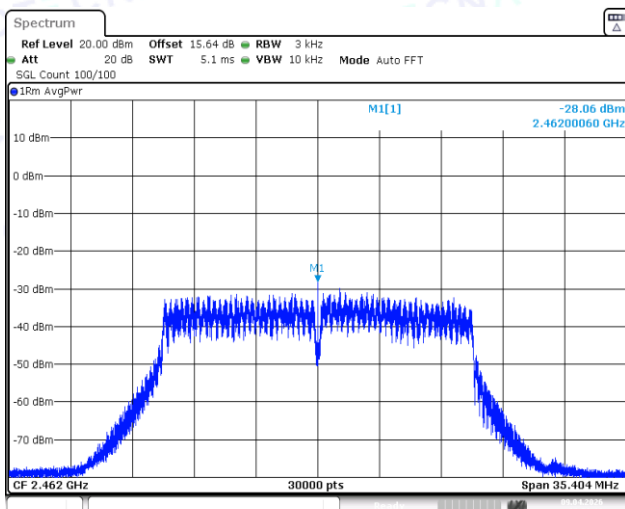
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11N20SISO-Ant1-2412-PASS



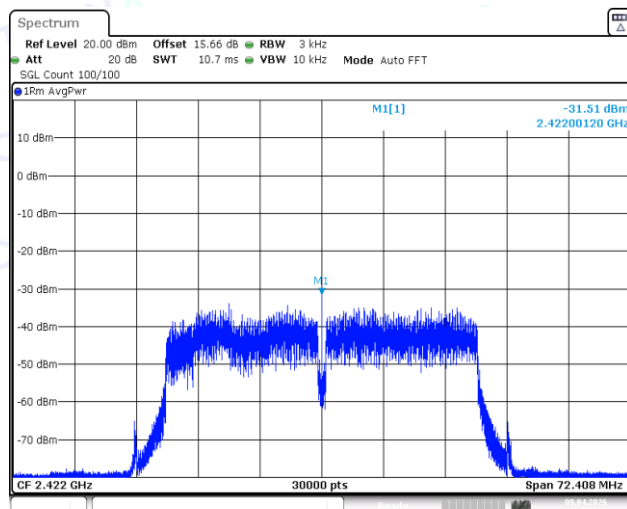
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11N20SISO-Ant1-2437-PASS



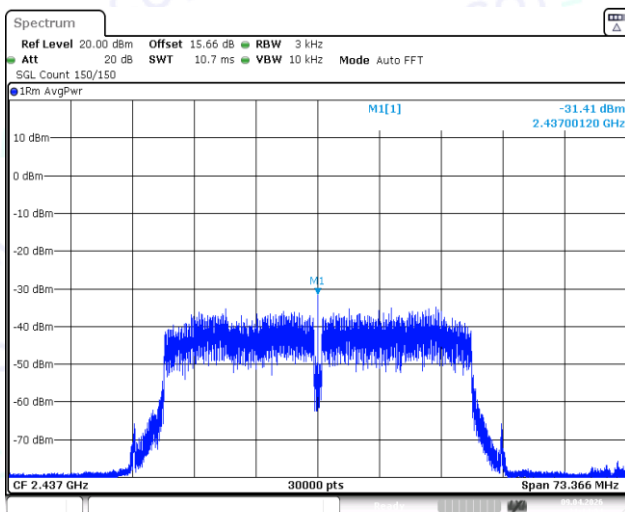
Date: 9.APR.2026 20:58:19

11N20SISO-Ant1-2462-PASS



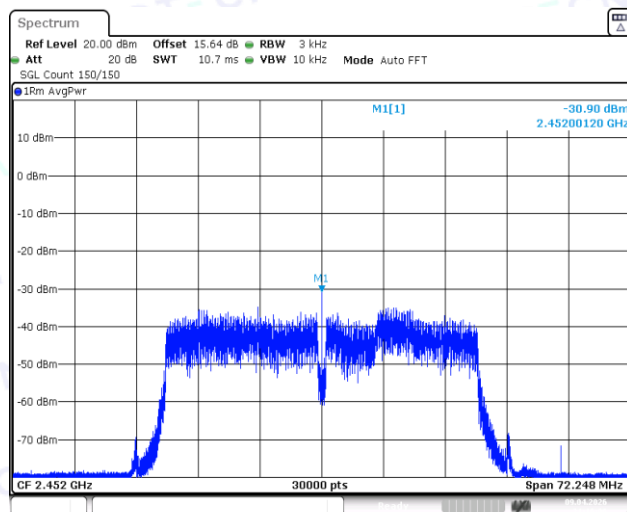
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11N40SISO-Ant1-2422-PASS



Date: 9.APR.2026 21:14:04

11N40SISO-Ant1-2437-PASS



Date: 9.APR.2026 21:16:06

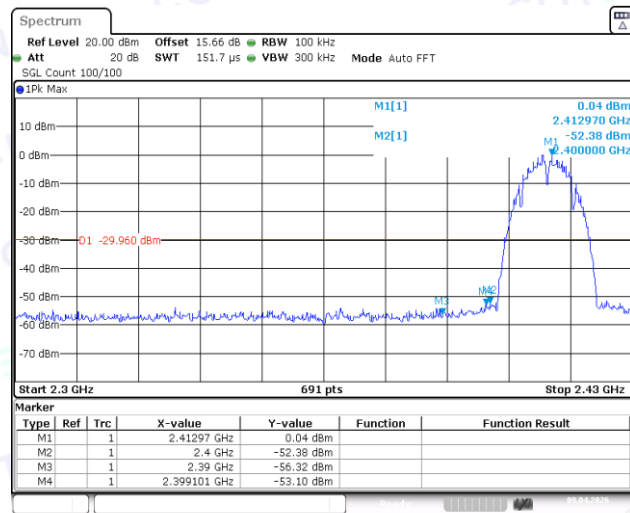
11N40SISO-Ant1-2452-PASS

5: Band edge measurements

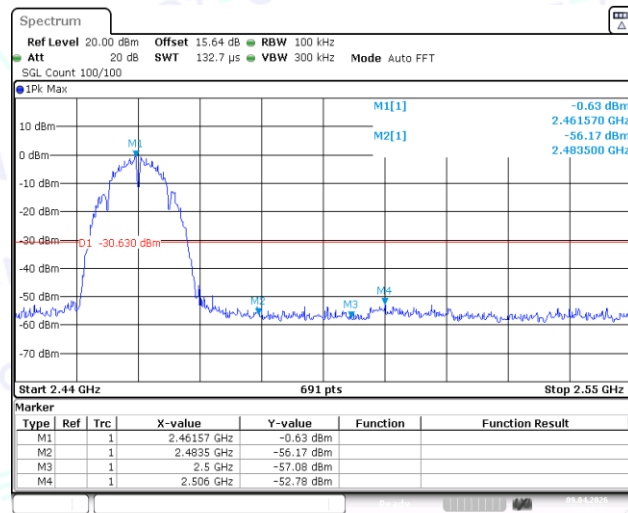
5.1 Test Result

TestMode	Ant.	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.04	-53.1	≤-29.96	PASS
11B	Ant1	High	2462	-0.63	-52.78	≤-30.63	PASS
11G	Ant1	Low	2412	-7.01	-47.13	≤-37.01	PASS
11G	Ant1	High	2462	-7.25	-53.18	≤-37.25	PASS
11N20SISO	Ant1	Low	2412	-5.56	-45.25	≤-35.56	PASS
11N20SISO	Ant1	High	2462	-6.72	-51.64	≤-36.72	PASS
11N40SISO	Ant1	Low	2422	-9.12	-49.94	≤-39.12	PASS
11N40SISO	Ant1	High	2452	-8.92	-53.33	≤-38.92	PASS

5.2 Test Graphs

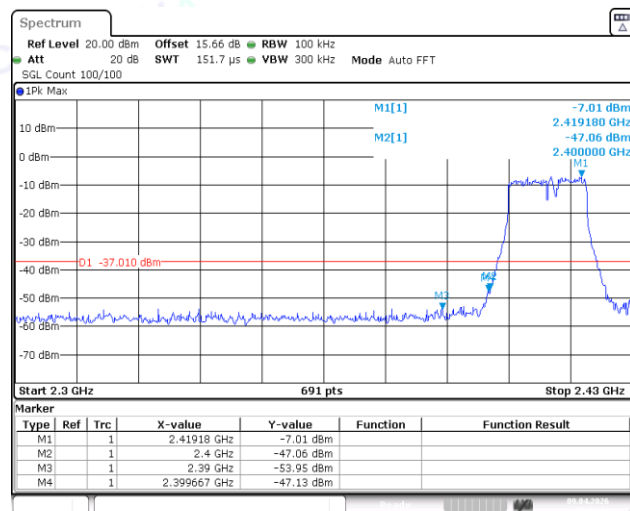


Date: 9.APR.2026 20:12:54



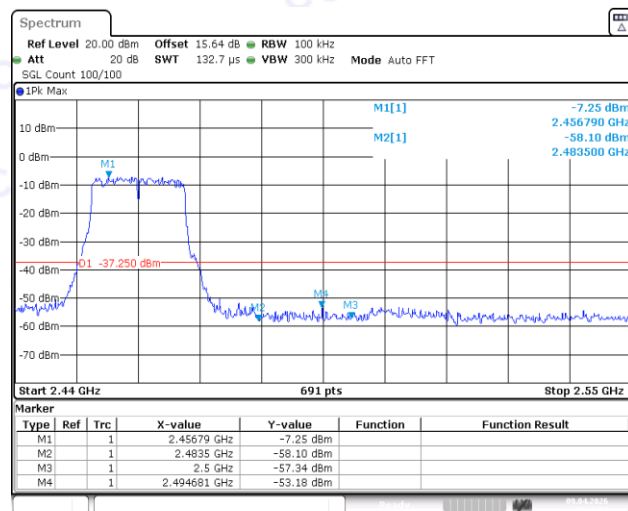
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11B-Ant1-2412-PASS



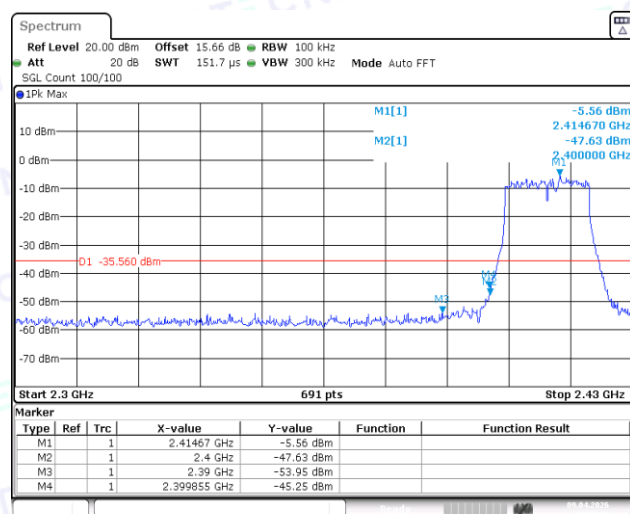
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11B-Ant1-2462-PASS



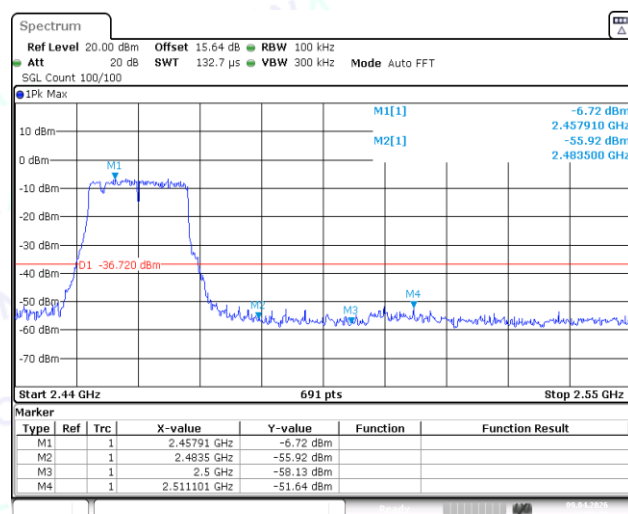
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11G-Ant1-2412-PASS



Date: 9.APR.2026 20:55:49

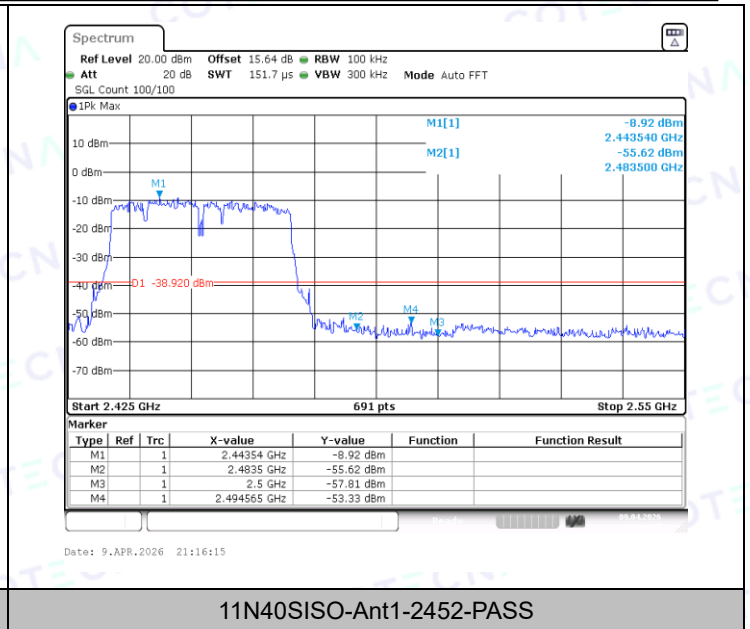
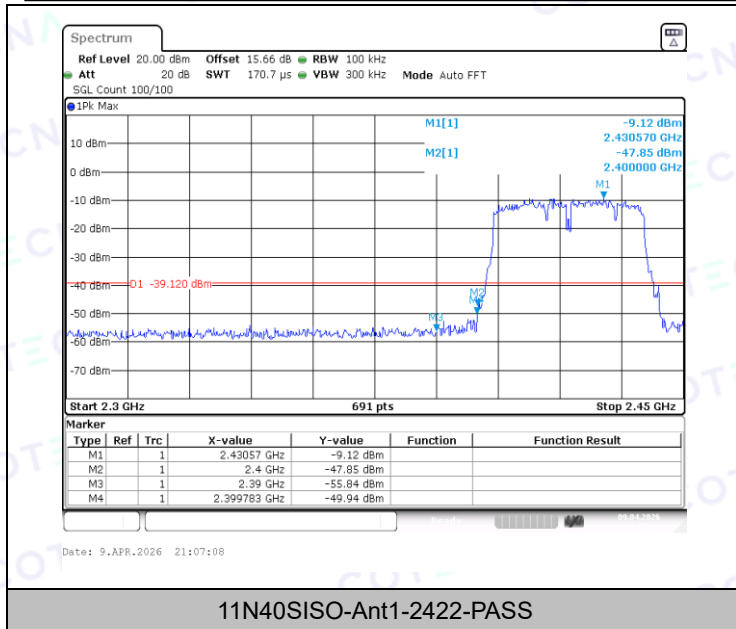
11G-Ant1-2462-PASS



Date: 9.APR.2026 20:58:27

11N20SISO-Ant1-2412-PASS

11N20SISO-Ant1-2462-PASS

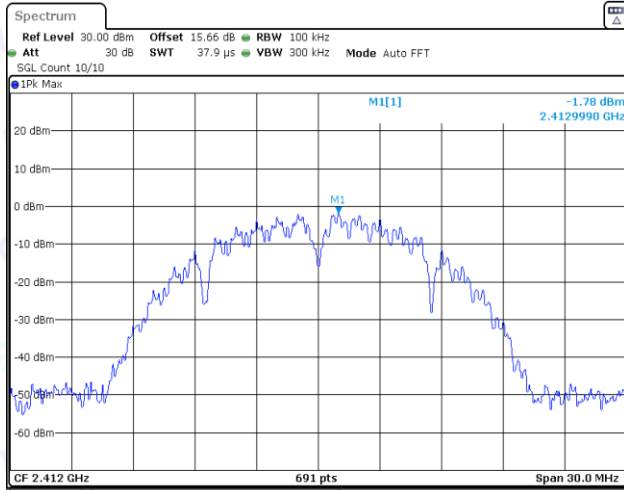


6: Conducted Spurious Emission

6.1 Test Result

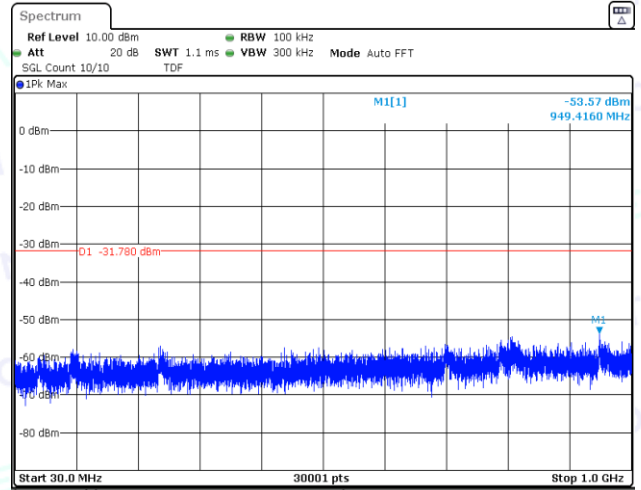
TestMode	Ant.	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	-1.78	-1.78	---	PASS
11B	Ant1	2412	30~1000	-1.78	-53.57	≤-31.78	PASS
11B	Ant1	2412	1000~26500	-1.78	-37.84	≤-31.78	PASS
11B	Ant1	2437	0~Reference	-0.89	-0.89	---	PASS
11B	Ant1	2437	30~1000	-0.89	-53.55	≤-30.89	PASS
11B	Ant1	2437	1000~26500	-0.89	-36.88	≤-30.89	PASS
11B	Ant1	2462	0~Reference	-2.17	-2.17	---	PASS
11B	Ant1	2462	30~1000	-2.17	-54.3	≤-32.17	PASS
11B	Ant1	2462	1000~26500	-2.17	-37.08	≤-32.17	PASS
11G	Ant1	2412	0~Reference	-7.19	-7.19	---	PASS
11G	Ant1	2412	30~1000	-7.19	-53.52	≤-37.19	PASS
11G	Ant1	2412	1000~26500	-7.19	-56.67	≤-37.19	PASS
11G	Ant1	2437	0~Reference	-6.53	-6.53	---	PASS
11G	Ant1	2437	30~1000	-6.53	-53.59	≤-36.53	PASS
11G	Ant1	2437	1000~26500	-6.53	-53.35	≤-36.53	PASS
11G	Ant1	2462	0~Reference	-6.20	-6.20	---	PASS
11G	Ant1	2462	30~1000	-6.20	-54.69	≤-36.2	PASS
11G	Ant1	2462	1000~26500	-6.20	-54.9	≤-36.2	PASS
11N20SISO	Ant1	2412	0~Reference	-6.64	-6.64	---	PASS
11N20SISO	Ant1	2412	30~1000	-6.64	-54.7	≤-36.64	PASS
11N20SISO	Ant1	2412	1000~26500	-6.64	-54.96	≤-36.64	PASS
11N20SISO	Ant1	2437	0~Reference	-6.04	-6.04	---	PASS
11N20SISO	Ant1	2437	30~1000	-6.04	-54.45	≤-36.04	PASS
11N20SISO	Ant1	2437	1000~26500	-6.04	-51.33	≤-36.04	PASS
11N20SISO	Ant1	2462	0~Reference	-6.40	-6.40	---	PASS
11N20SISO	Ant1	2462	30~1000	-6.40	-54.06	≤-36.4	PASS
11N20SISO	Ant1	2462	1000~26500	-6.40	-53.17	≤-36.4	PASS
11N40SISO	Ant1	2422	0~Reference	-9.06	-9.06	---	PASS
11N40SISO	Ant1	2422	30~1000	-9.06	-53.86	≤-39.06	PASS
11N40SISO	Ant1	2422	1000~26500	-9.06	-56.83	≤-39.06	PASS
11N40SISO	Ant1	2437	0~Reference	-9.47	-9.47	---	PASS
11N40SISO	Ant1	2437	30~1000	-9.47	-54.19	≤-39.47	PASS
11N40SISO	Ant1	2437	1000~26500	-9.47	-57.05	≤-39.47	PASS
11N40SISO	Ant1	2452	0~Reference	-9.45	-9.45	---	PASS
11N40SISO	Ant1	2452	30~1000	-9.45	-54.62	≤-39.45	PASS
11N40SISO	Ant1	2452	1000~26500	-9.45	-54.85	≤-39.45	PASS

6.2 Test Graphs



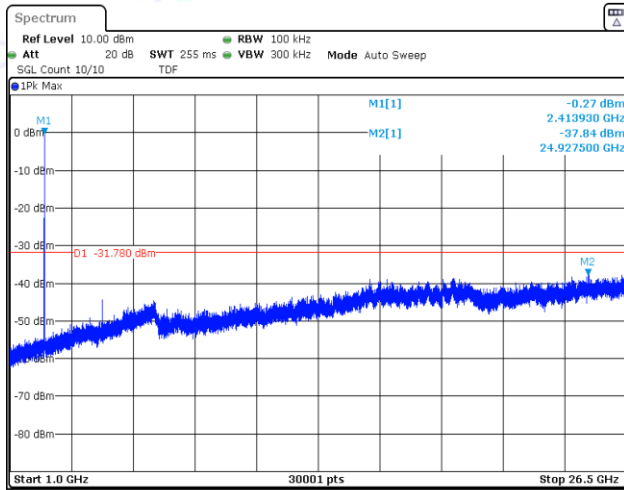
Date: 9.APR.2026 20:13:22

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



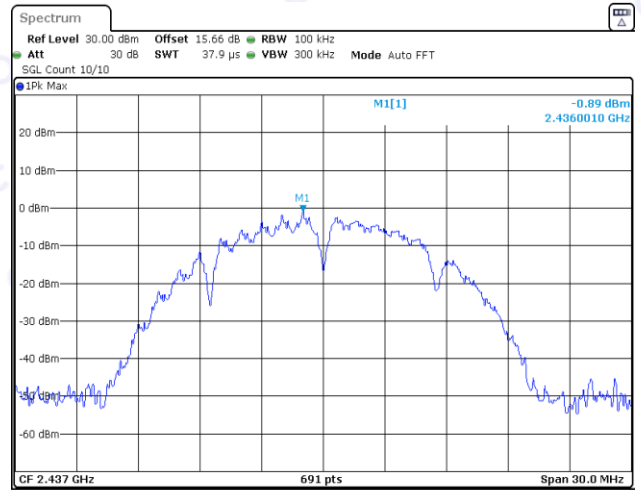
Date: 9.APR.2026 20:13:30

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



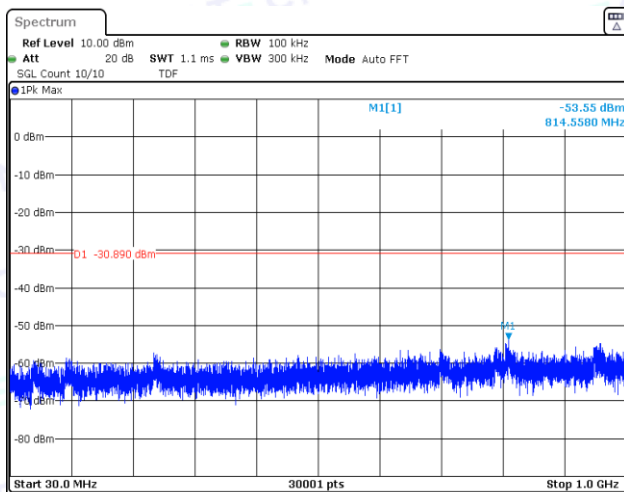
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11B-Ant1-2412-1000~26500-PASS



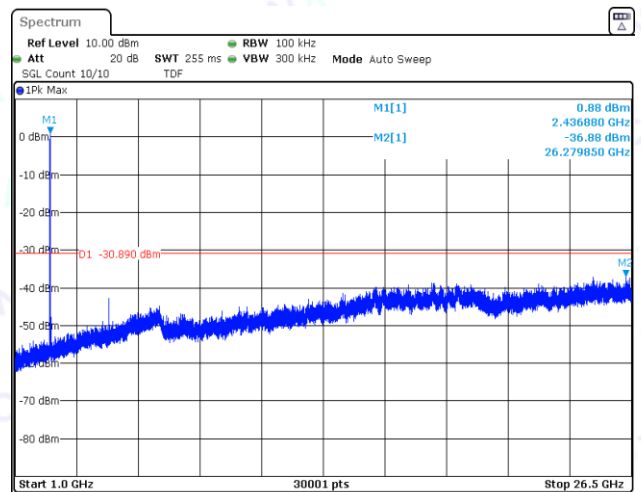
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11B-Ant1-2437-0~Reference-PASS



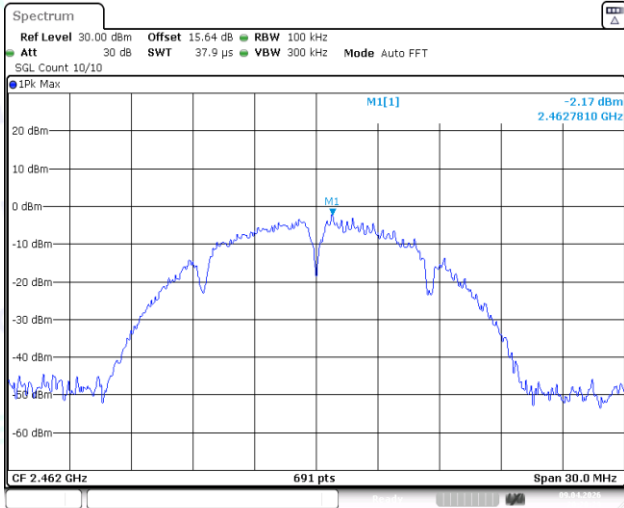
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11B-Ant1-2437-30~1000-PASS

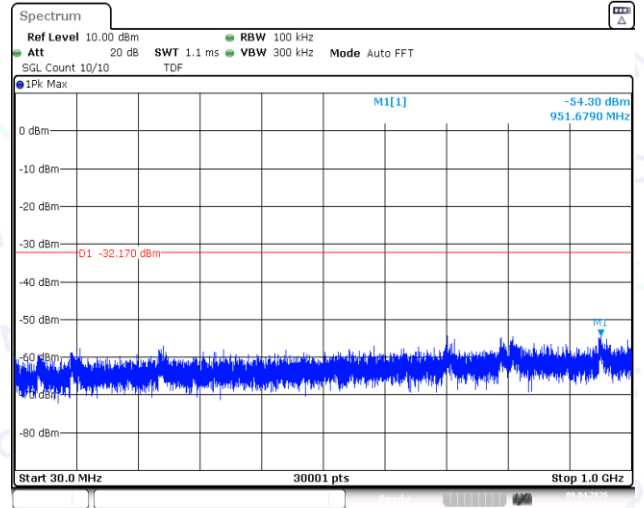


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11B-Ant1-2437-1000~26500-PASS

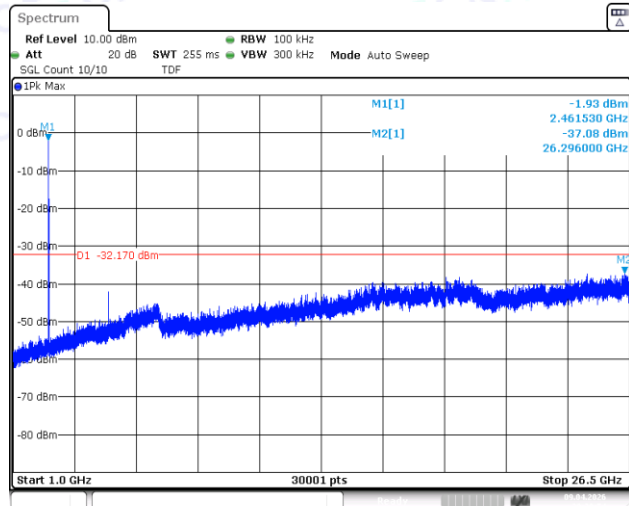


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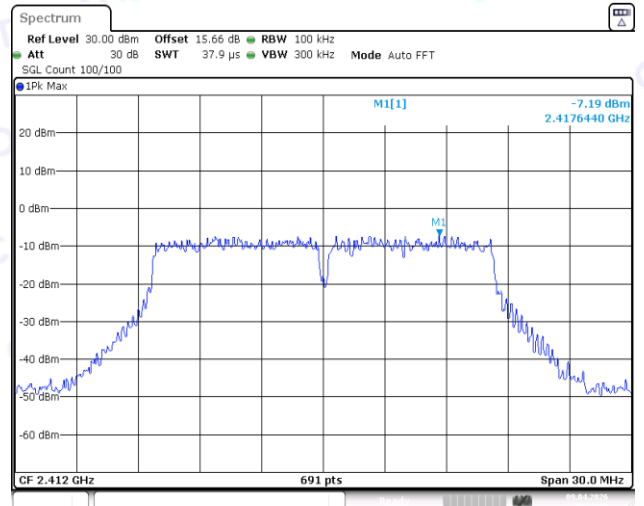
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11B-Ant1-2462-0~Reference-PASS



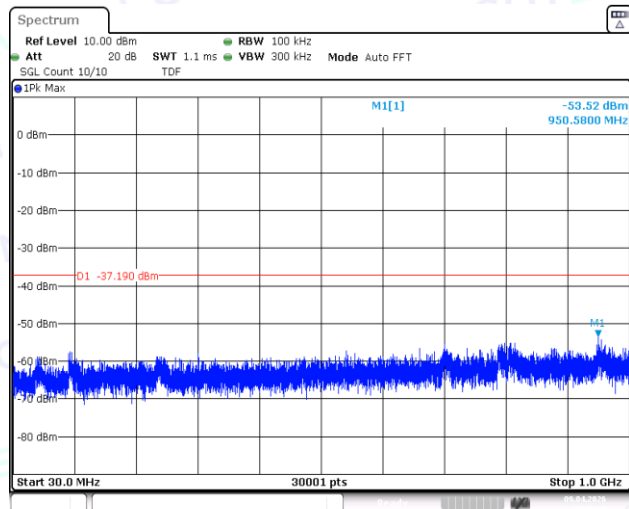
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11B-Ant1-2462-30~1000-PASS



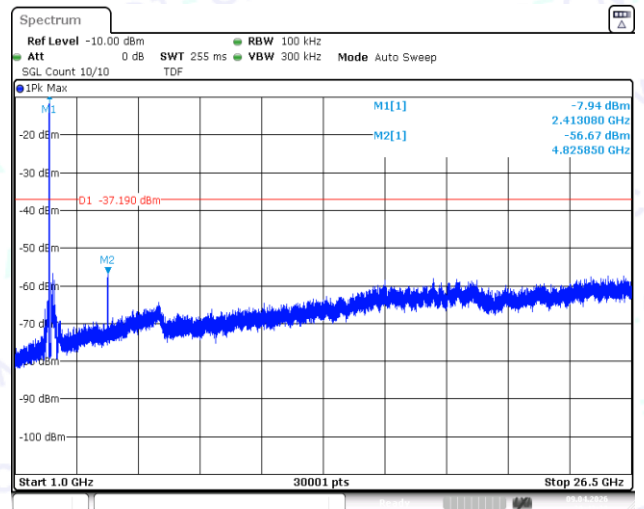
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11B-Ant1-2462-1000~26500-PASS



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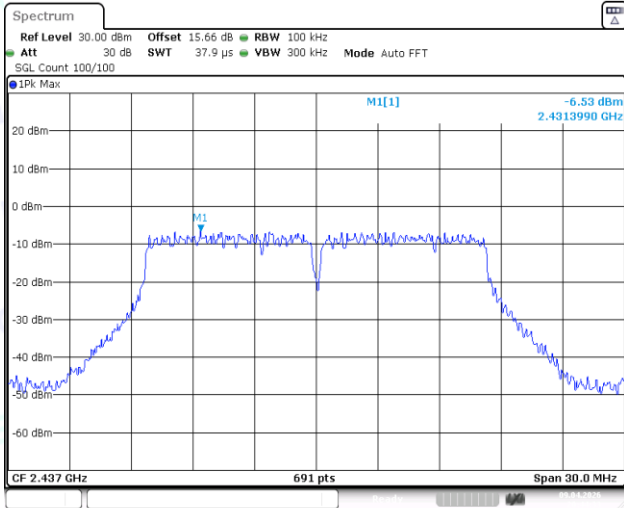
11G-Ant1-2412-0~Reference-PASS



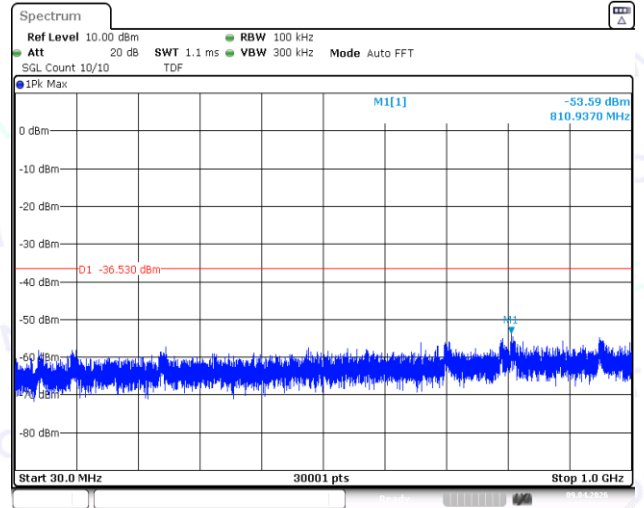
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11G-Ant1-2412-30~1000-PASS

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

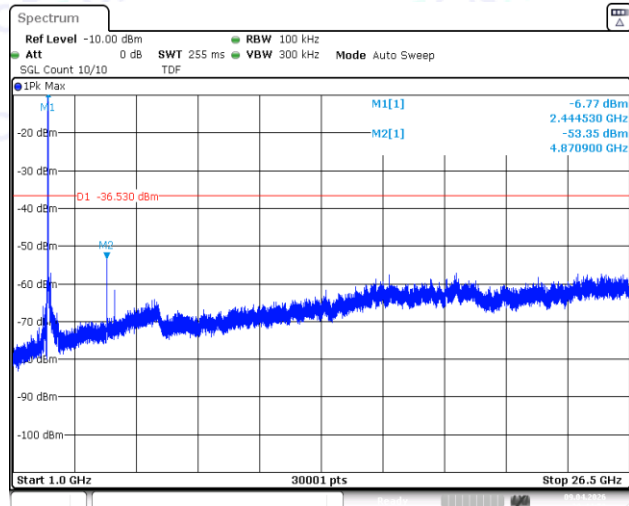


Date: 9.APR.2026 20:44:33

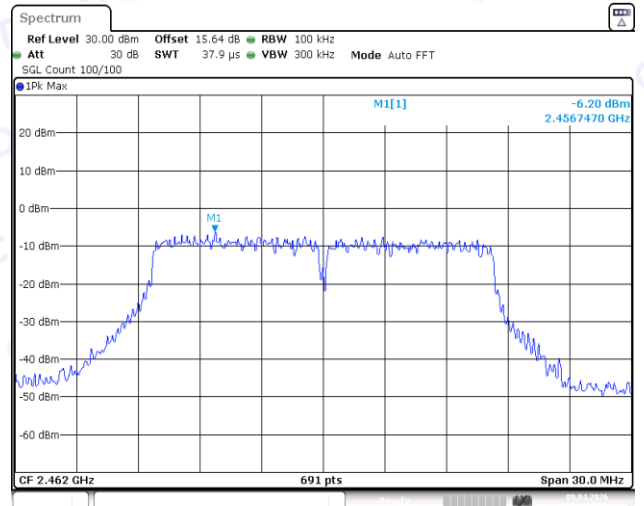


Date: 9.APR.2026 20:44:40

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

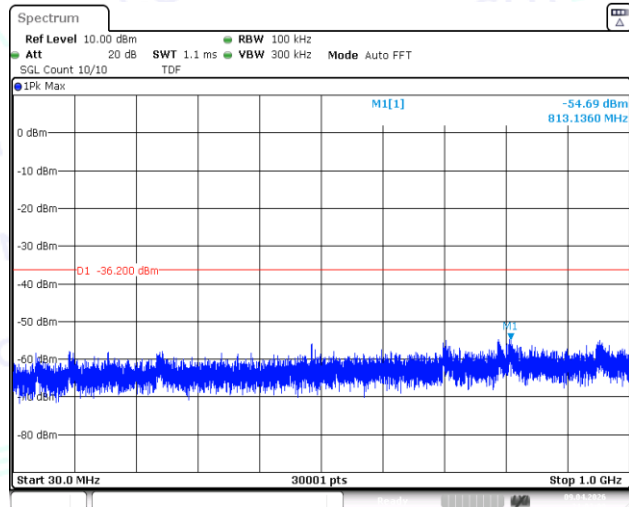


Date: 9.APR.2026 20:44:58

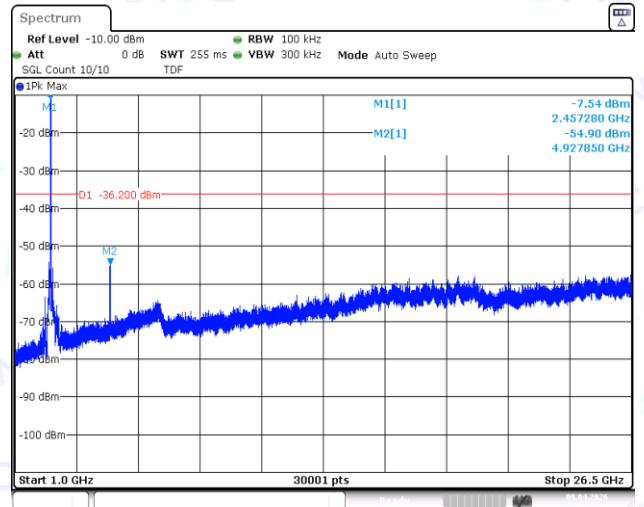


Date: 9.APR.2026 21:03:01

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



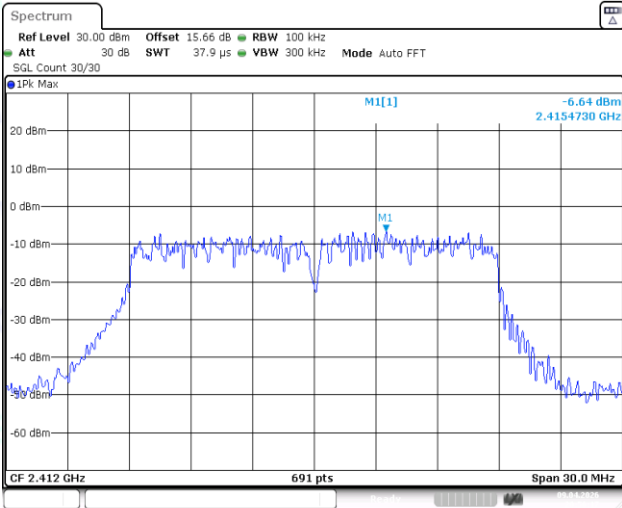
Date: 9.APR.2026 21:03:09



Date: 9.APR.2026 21:03:27

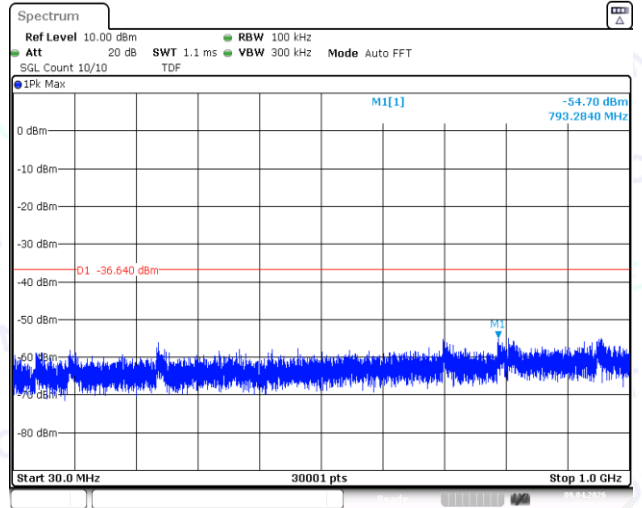
11G-Ant1-2462-30~1000-PASS

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



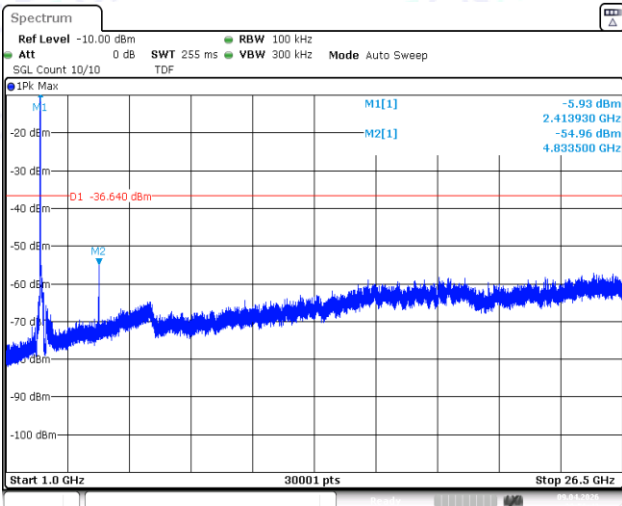
Date: 9.APR.2026 20:56:17

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



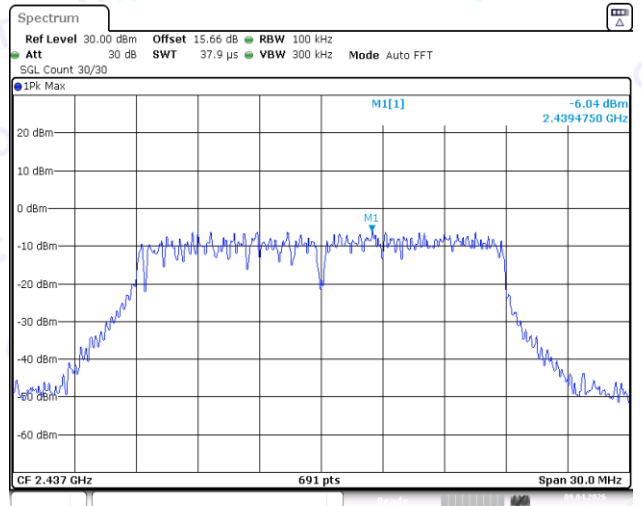
Date: 9.APR.2026 20:56:25

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



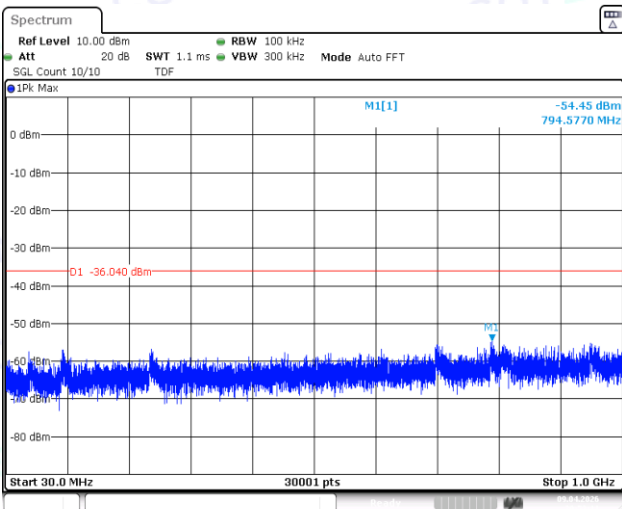
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11N20SISO-Ant1-2412-1000~26500-PASS



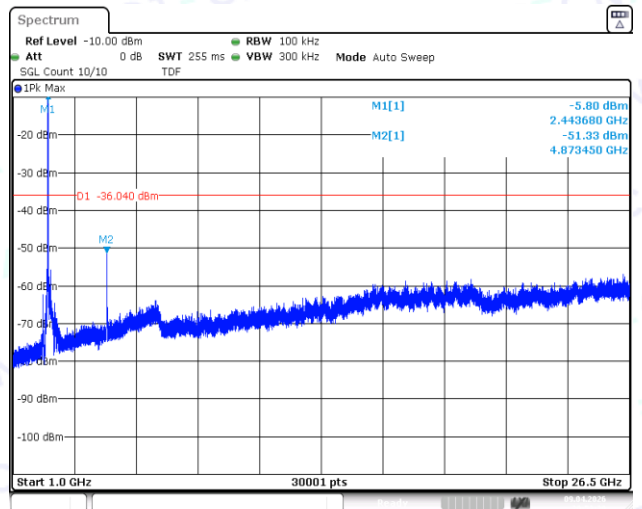
Date: 9.APR.2026 20:53:03

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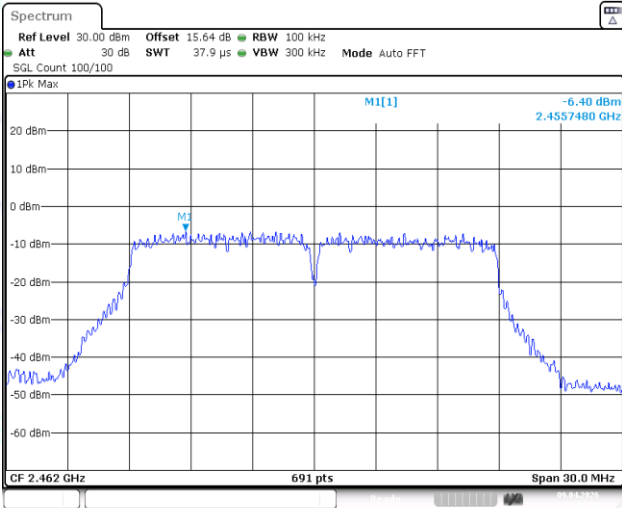
Date: 9.APR.2026 20:53:11

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

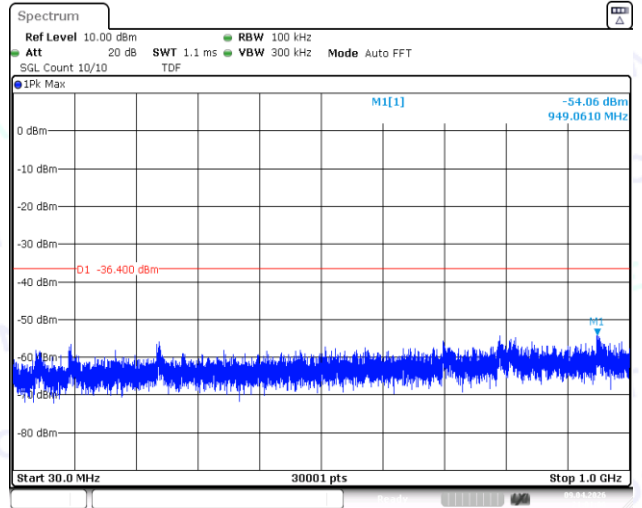


Date: 9.APR.2026 20:53:29

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



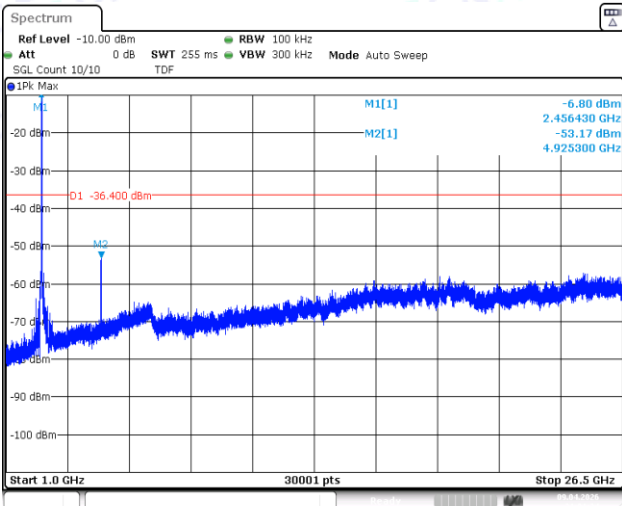
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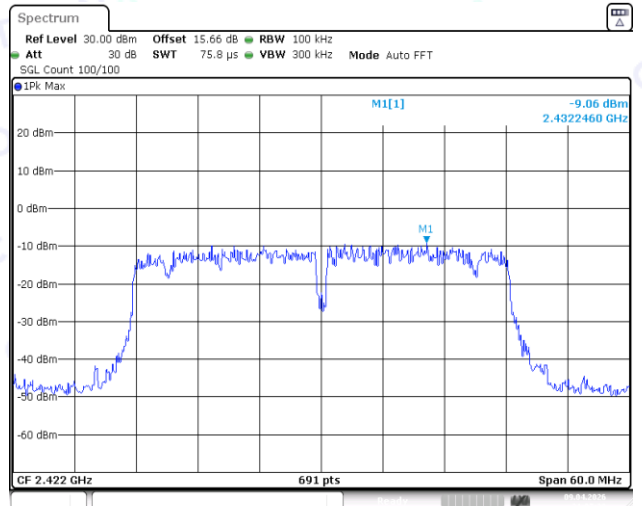
Date: 9.APR.2026 21:01:06

11N20SISO-Ant1-2462-0~Reference-PASS

11N20SISO-Ant1-2462-30~1000-PASS



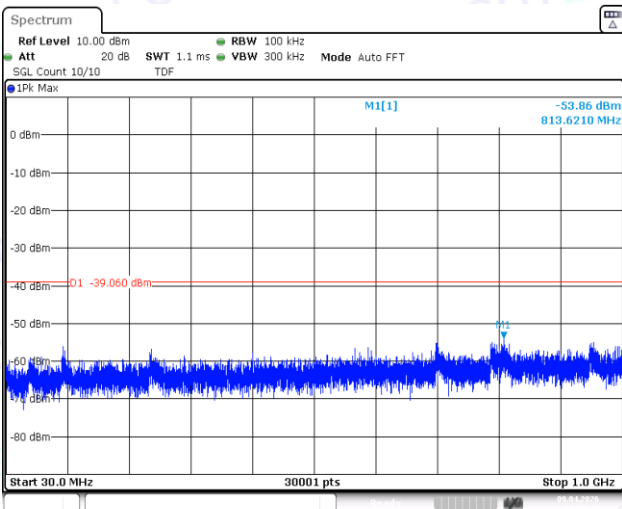
Date: 9.APR.2026 21:01:24



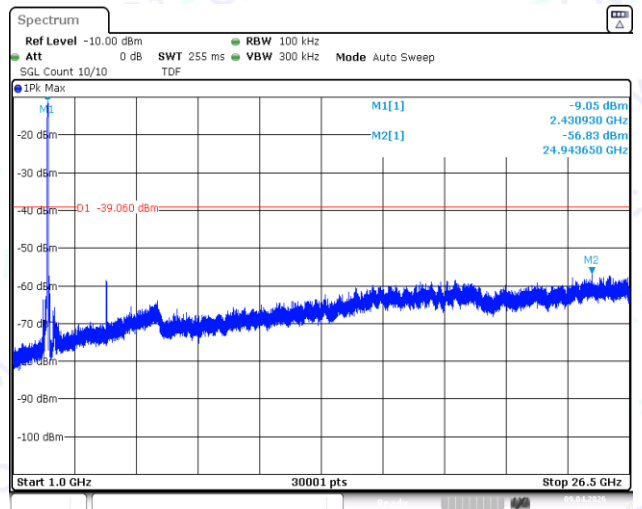
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11N20SISO-Ant1-2462-1000~26500-PASS

11N40SISO-Ant1-2422-0~Reference-PASS



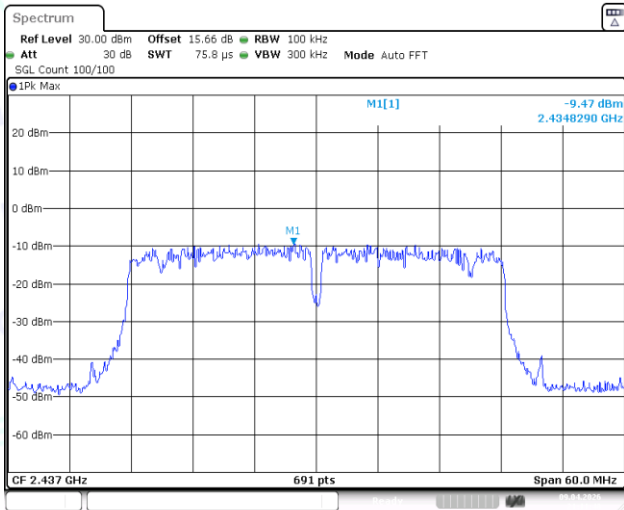
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Date: 9.APR.2026 21:08:03

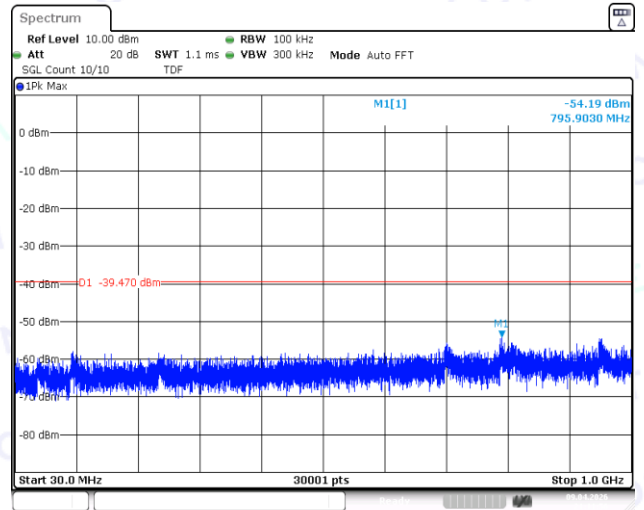
11N40SISO-Ant1-2422-30~1000-PASS

11N40SISO-Ant1-2422-1000~26500-PASS



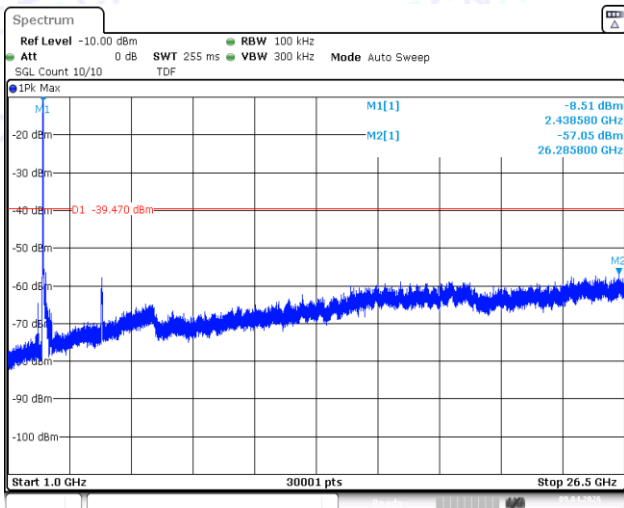
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11N40SISO-Ant1-2437-0~Reference-PASS



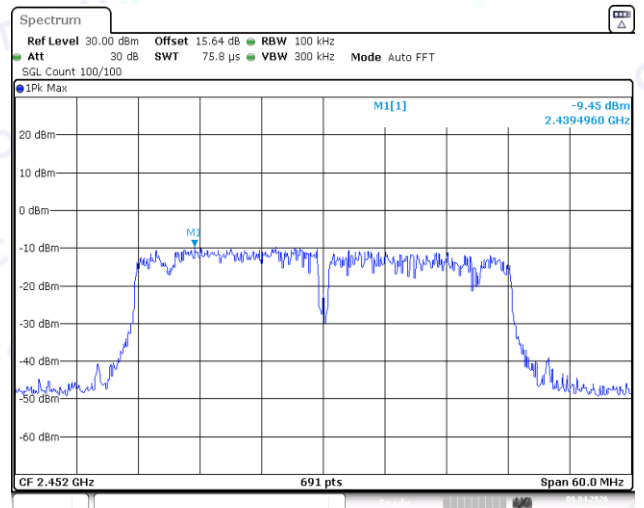
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11N40SISO-Ant1-2437-30~1000-PASS



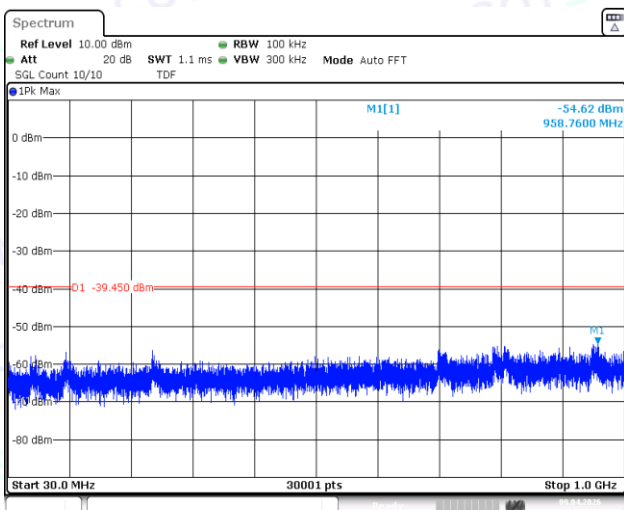
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11N40SISO-Ant1-2437-1000~26500-PASS



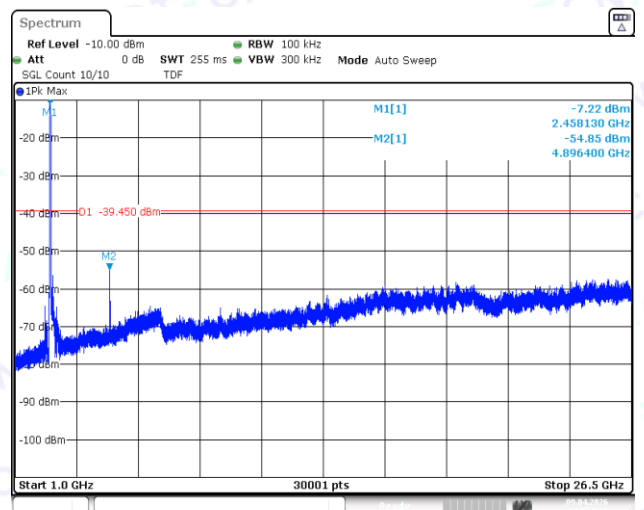
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11N40SISO-Ant1-2452-0~Reference-PASS



Date: 9.APR.2026 21:17:02

11N40SISO-Ant1-2452-30~1000-PASS



Date: 9.APR.2026 21:17:19

11N40SISO-Ant1-2452-1000~26500-PASS

7: Duty Cycle

7.1 Test Result

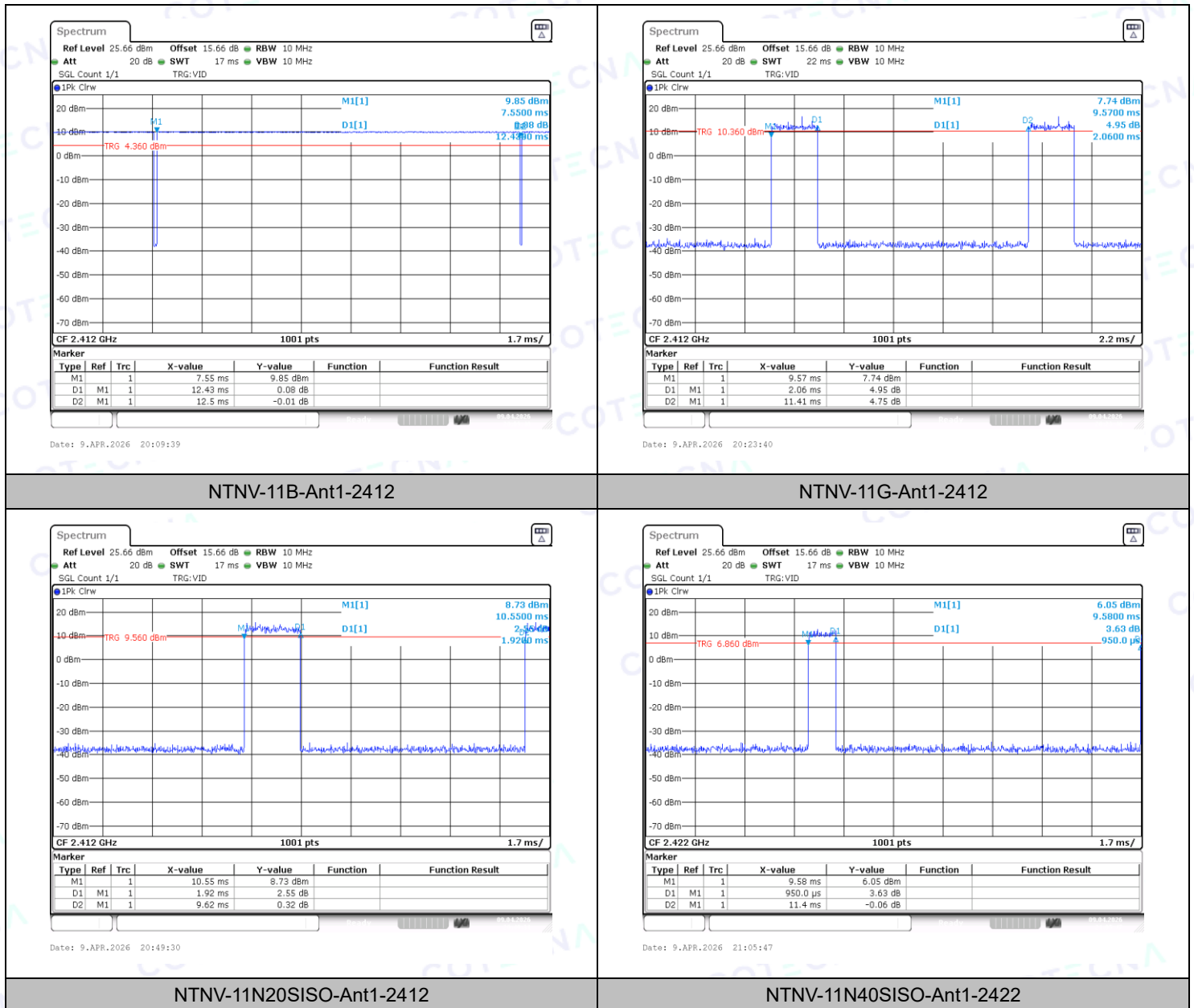
TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor	1/T [kHz]
11B	Ant1	2412	12.43	12.50	99.44	0.02	0.08
11G	Ant1	2412	2.06	11.41	18.05	7.44	0.49
11N20SISO	Ant1	2412	1.92	9.62	19.96	7.00	0.52
11N40SISO	Ant1	2422	0.95	11.40	8.33	10.79	1.05

Note: 1, Duty Cycle= Transmission Duration/ Transmission Period

2, DC Factor= $10 \cdot \log_{10}(1/\text{Duty Cycle})$

3, $1/T=1/\text{Transmission Duration}$

7.2 Test Graphs



8: Emissions in Restricted Bands

8.1 Test Result

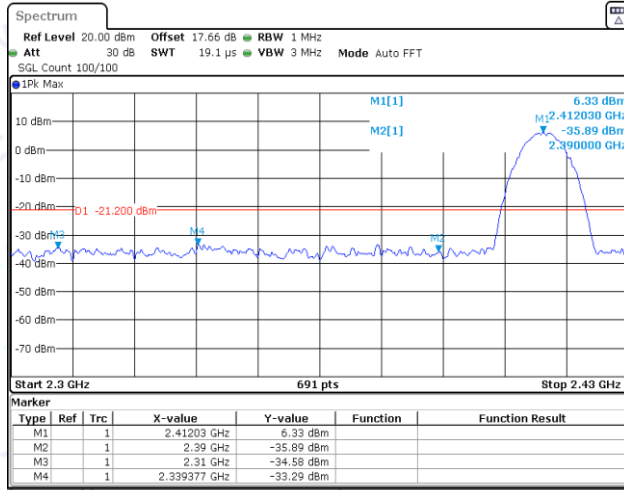
TestMode	Ant.	ChName	Freq. [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	Peak	2390.000	-35.89	≤-21.20	59.31	≤74	PASS
11B	Ant1	Low	2412	Peak	2310.000	-34.58	≤-21.20	60.62	≤74	PASS
11B	Ant1	Low	2412	Peak	2339.377	-33.29	≤-21.20	61.91	≤74	PASS
11B	Ant1	Low	2412	AV	2390.000	-59.27	≤-41.20	35.93	≤54	PASS
11B	Ant1	Low	2412	AV	2310.000	-62.83	≤-41.20	32.37	≤54	PASS
11B	Ant1	Low	2412	AV	2389.304	-58.88	≤-41.20	36.32	≤54	PASS
11B	Ant1	High	2462	Peak	2483.500	-34.86	≤-21.20	60.34	≤74	PASS
11B	Ant1	High	2462	Peak	2500.000	-37.64	≤-21.20	57.56	≤74	PASS
11B	Ant1	High	2462	Peak	2484.319	-32.36	≤-21.20	62.84	≤74	PASS
11B	Ant1	High	2462	AV	2483.500	-58.92	≤-41.20	36.28	≤54	PASS
11B	Ant1	High	2462	AV	2500.000	-61.14	≤-41.20	34.06	≤54	PASS
11B	Ant1	High	2462	AV	2486.870	-58.41	≤-41.20	36.79	≤54	PASS
11G	Ant1	Low	2412	Peak	2390.000	-36.86	≤-21.20	58.34	≤74	PASS
11G	Ant1	Low	2412	Peak	2310.000	-37.65	≤-21.20	57.55	≤74	PASS
11G	Ant1	Low	2412	Peak	2339.754	-32.59	≤-21.20	62.61	≤74	PASS
11G	Ant1	Low	2412	AV	2390.000	-58.84	≤-41.20	36.36	≤54	PASS
11G	Ant1	Low	2412	AV	2310.000	-62.43	≤-41.20	32.77	≤54	PASS
11G	Ant1	Low	2412	AV	2388.739	-57.17	≤-41.20	38.03	≤54	PASS
11G	Ant1	High	2462	Peak	2483.500	-36.3	≤-21.20	58.90	≤74	PASS
11G	Ant1	High	2462	Peak	2500.000	-36.89	≤-21.20	58.31	≤74	PASS
11G	Ant1	High	2462	Peak	2495.957	-34.21	≤-21.20	60.99	≤74	PASS
11G	Ant1	High	2462	AV	2483.500	-60.26	≤-41.20	34.94	≤54	PASS
11G	Ant1	High	2462	AV	2500.000	-60.11	≤-41.20	35.09	≤54	PASS
11G	Ant1	High	2462	AV	2484.319	-59.17	≤-41.20	36.03	≤54	PASS
11N20SISO	Ant1	Low	2412	Peak	2390.000	-35.36	≤-21.20	59.84	≤74	PASS
11N20SISO	Ant1	Low	2412	Peak	2310.000	-37.57	≤-21.20	57.63	≤74	PASS
11N20SISO	Ant1	Low	2412	Peak	2343.710	-32.98	≤-21.20	62.22	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2390.000	-60.18	≤-41.20	35.02	≤54	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-63.67	≤-41.20	31.53	≤54	PASS
11N20SISO	Ant1	Low	2412	AV	2387.043	-58.47	≤-41.20	36.73	≤54	PASS
11N20SISO	Ant1	High	2462	Peak	2483.500	-36.85	≤-21.20	58.35	≤74	PASS
11N20SISO	Ant1	High	2462	Peak	2500.000	-36	≤-21.20	59.20	≤74	PASS
11N20SISO	Ant1	High	2462	Peak	2486.870	-33.96	≤-21.20	61.24	≤74	PASS
11N20SISO	Ant1	High	2462	AV	2483.500	-58.31	≤-41.20	36.89	≤54	PASS
11N20SISO	Ant1	High	2462	AV	2500.000	-60.91	≤-41.20	34.29	≤54	PASS
11N20SISO	Ant1	High	2462	AV	2483.522	-58.31	≤-41.20	36.89	≤54	PASS
11N40SISO	Ant1	Low	2422	Peak	2390.000	-34.24	≤-21.20	60.96	≤74	PASS
11N40SISO	Ant1	Low	2422	Peak	2310.000	-35.39	≤-21.20	59.81	≤74	PASS
11N40SISO	Ant1	Low	2422	Peak	2360.435	-33.68	≤-21.20	61.52	≤74	PASS
11N40SISO	Ant1	Low	2422	AV	2390.000	-59.8	≤-41.20	35.40	≤54	PASS
11N40SISO	Ant1	Low	2422	AV	2310.000	-62.94	≤-41.20	32.26	≤54	PASS

11N40SISO	Ant1	Low	2422	AV	2387.609	-59.19	≤-41.20	36.01	≤54	PASS
11N40SISO	Ant1	High	2452	Peak	2483.500	-35.15	≤-21.20	60.05	≤74	PASS
11N40SISO	Ant1	High	2452	Peak	2500.000	-34.94	≤-21.20	60.26	≤74	PASS
11N40SISO	Ant1	High	2452	Peak	2484.058	-33.31	≤-21.20	61.89	≤74	PASS
11N40SISO	Ant1	High	2452	AV	2483.500	-60.19	≤-41.20	35.01	≤54	PASS
11N40SISO	Ant1	High	2452	AV	2500.000	-61.84	≤-41.20	33.36	≤54	PASS
11N40SISO	Ant1	High	2452	AV	2486.594	-59	≤-41.20	36.20	≤54	PASS

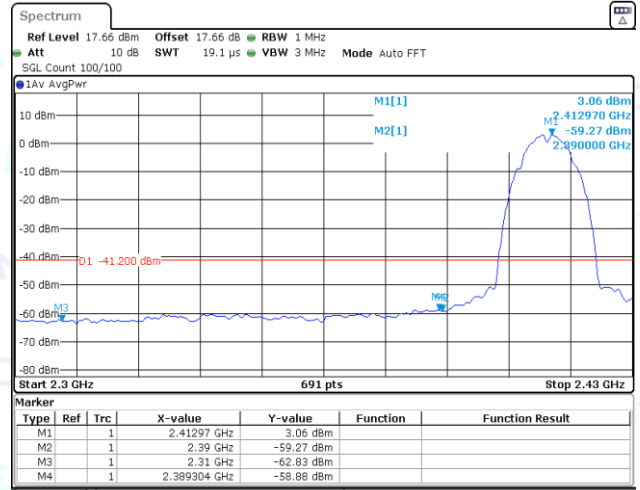
Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a), The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

8.2 Test Graphs



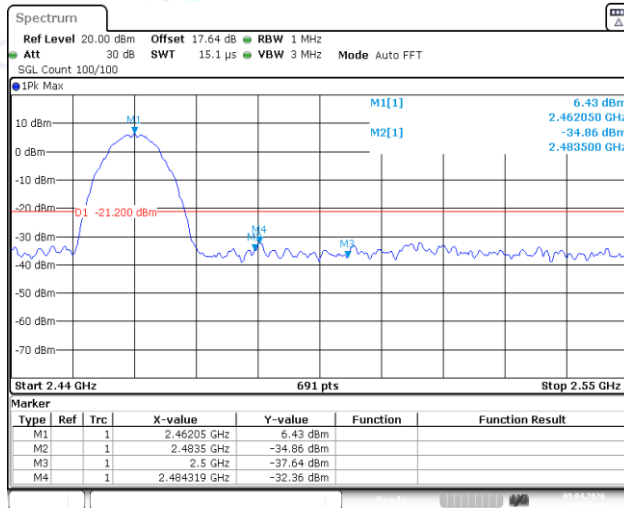
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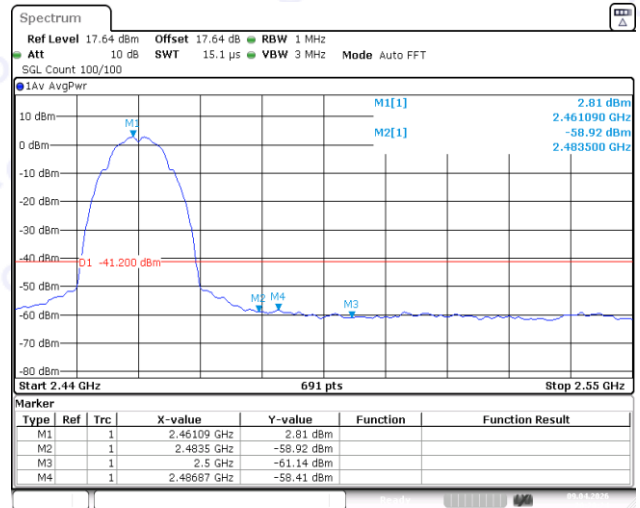
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11B-Ant1-2412-PASS

11B-Ant1-2412-PASS



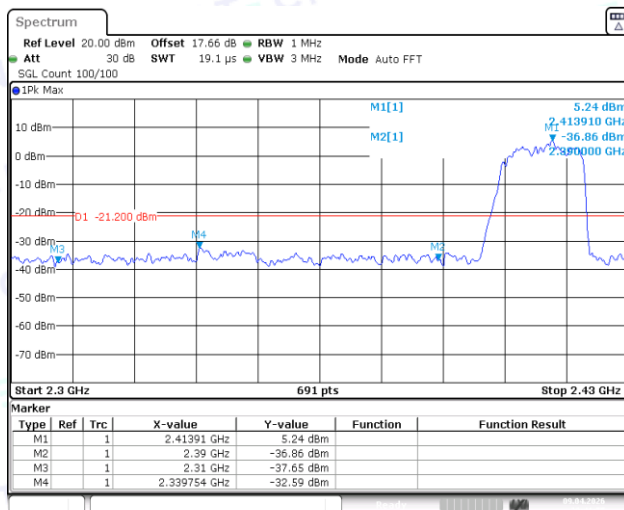
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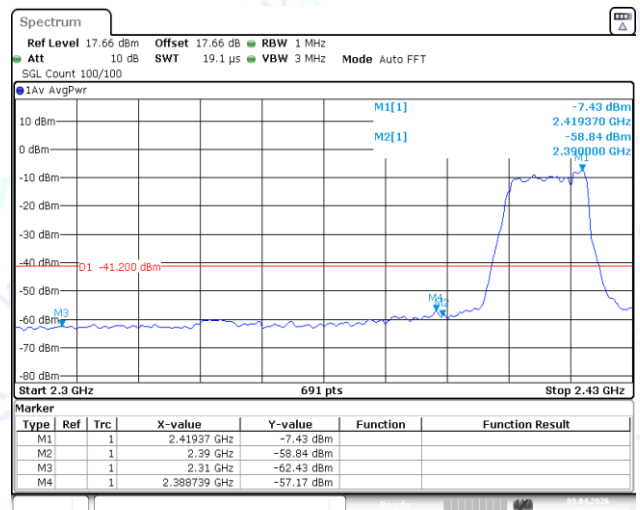
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11B-Ant1-2462-PASS

11B-Ant1-2462-PASS



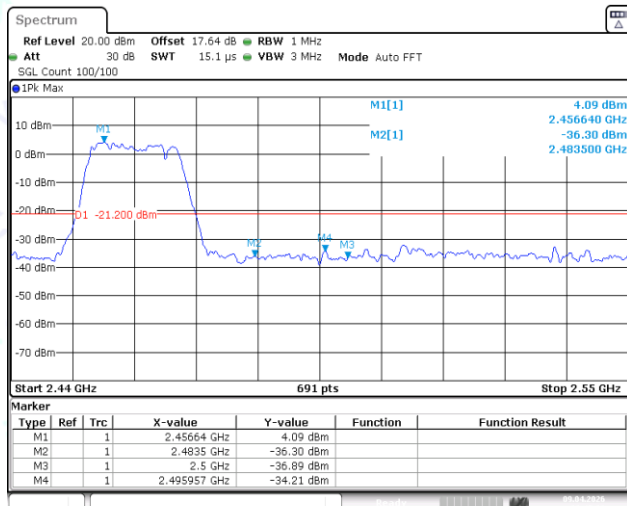
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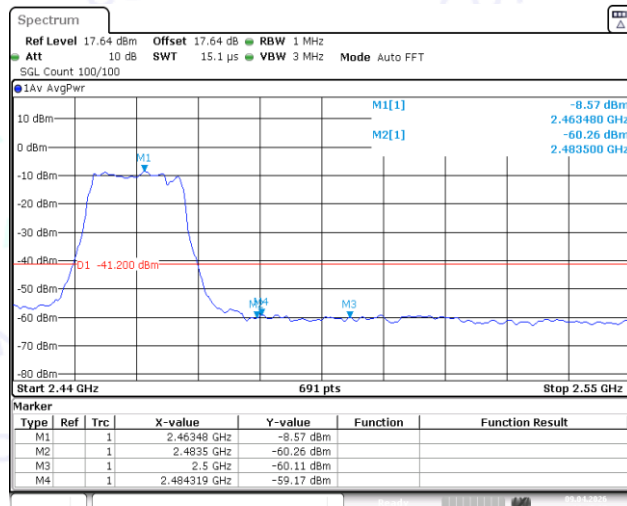
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11G-Ant1-2412-PASS

11G-Ant1-2412-PASS



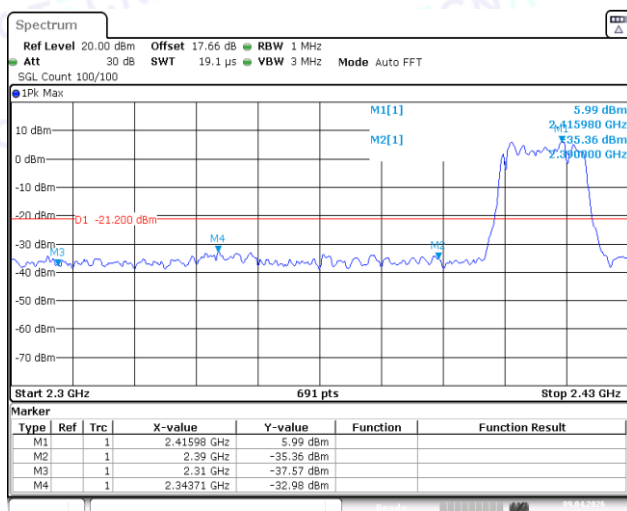
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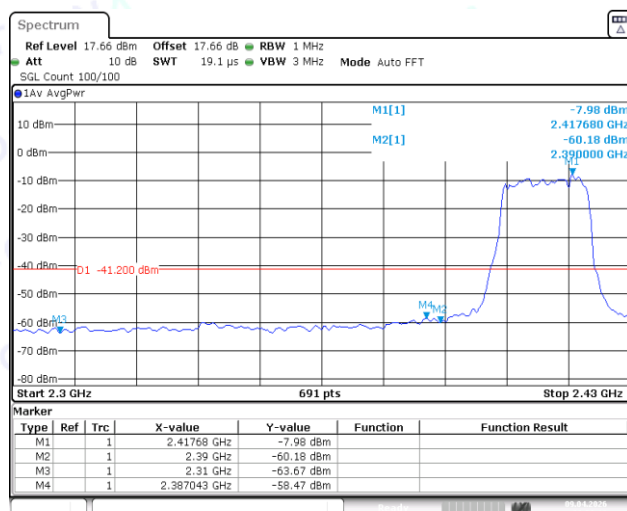
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11G-Ant1-2462-PASS

11G-Ant1-2462-PASS



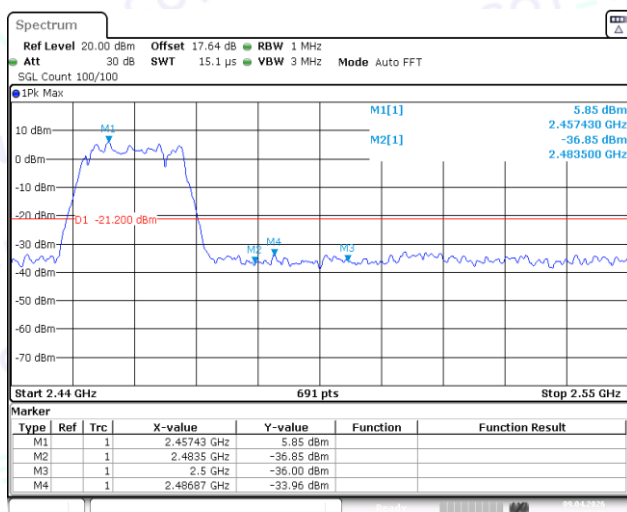
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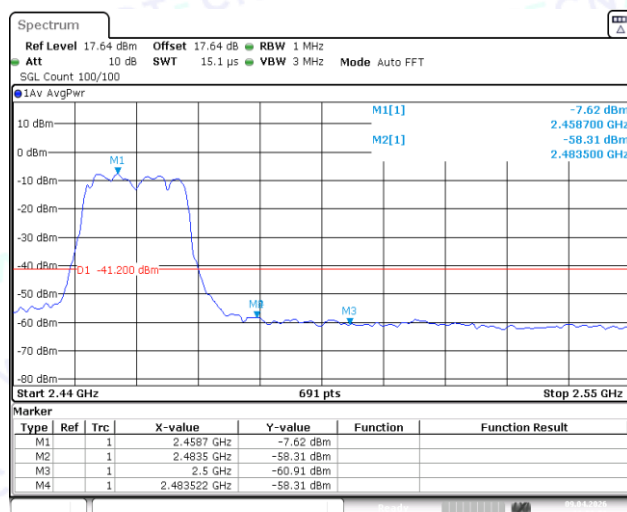
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11N20SISO-Ant1-2412-PASS

11N20SISO-Ant1-2412-PASS



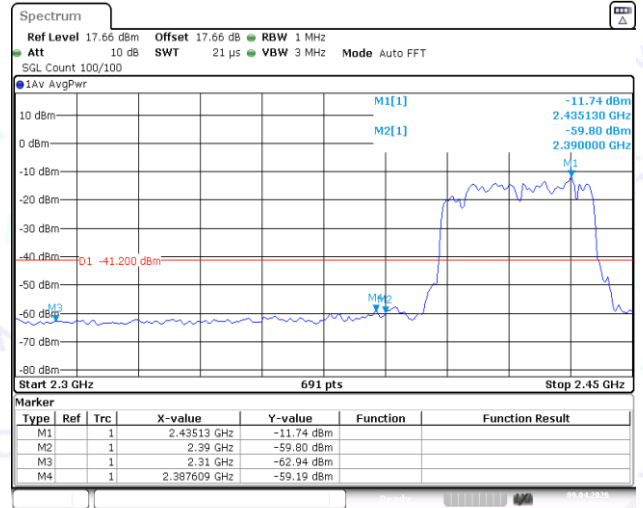
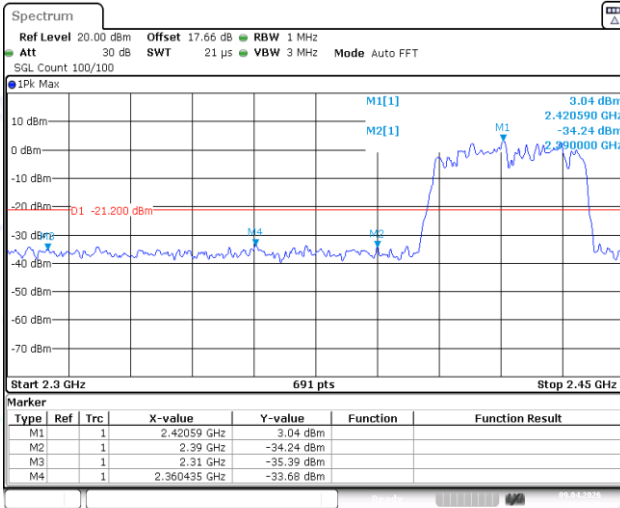
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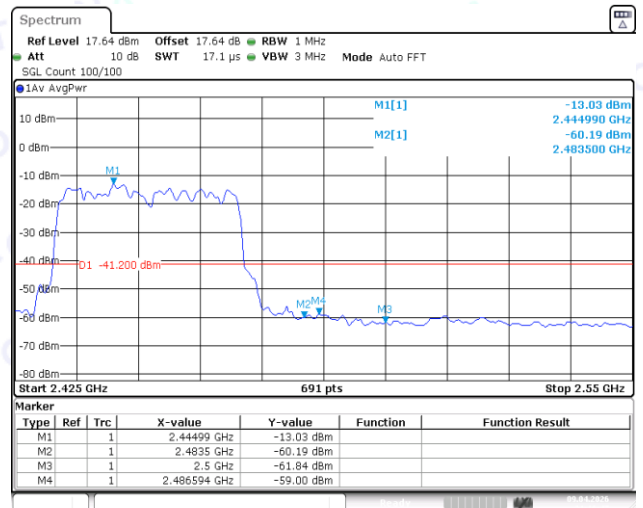
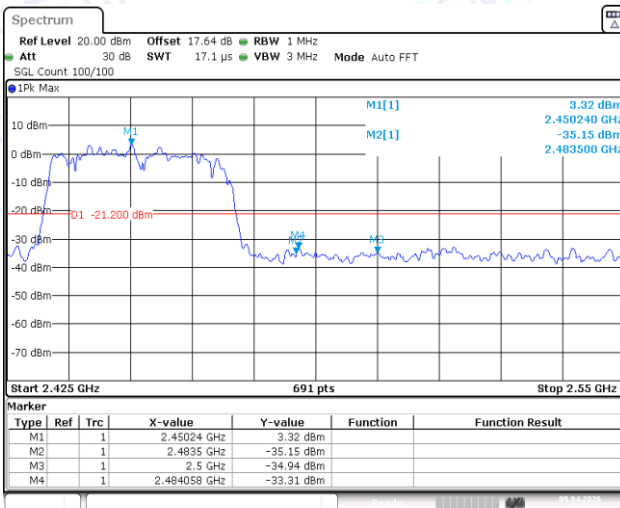
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11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS

11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2452-PASS

11N40SISO-Ant1-2452-PASS

-----END OF THE REPORT-----