

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

General Description of EUT	
EUT Name:	Camera-S03S
Model:	S03S
Sample ID:	HC-C-202603-0361-01-01-2#
Test Standard:	FCC Part 15.247
Environmental Conditions	
Ambient Temperature:	25℃
Ambient Humidity:	45%RH
Test Power Supply:	DC 5V
Test Engineer:	Gold. Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202603-0361-1	

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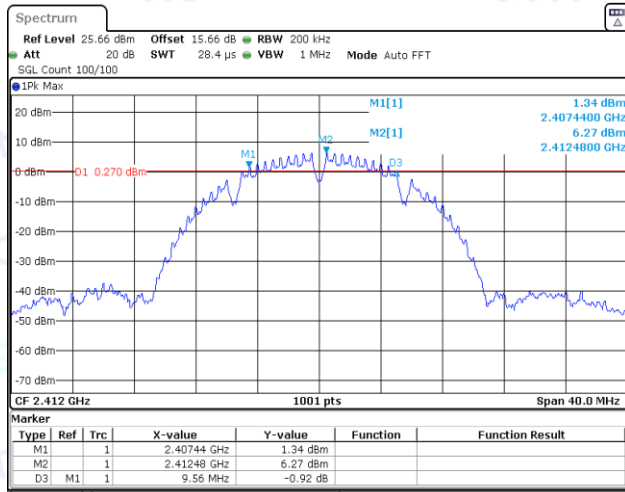
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1: DTS Bandwidth

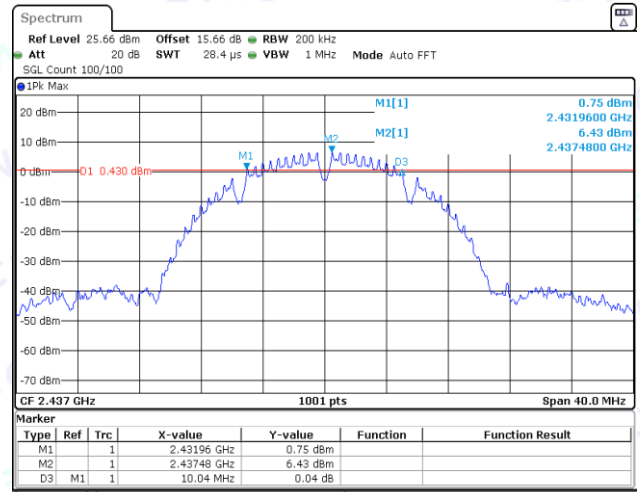
1.1 Test Result

Test Mode	Ant.	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.56	2407.44	2417.00	0.5	PASS
11B	Ant1	2437	10.04	2431.96	2442.00	0.5	PASS
11B	Ant1	2462	10.04	2456.96	2467.00	0.5	PASS
11G	Ant1	2412	16.04	2403.96	2420.00	0.5	PASS
11G	Ant1	2437	14.20	2430.64	2444.84	0.5	PASS
11G	Ant1	2462	16.32	2453.84	2470.16	0.5	PASS
11N20SISO	Ant1	2412	17.16	2403.44	2420.60	0.5	PASS
11N20SISO	Ant1	2437	16.56	2428.80	2445.36	0.5	PASS
11N20SISO	Ant1	2462	16.68	2453.60	2470.28	0.5	PASS

1.2 Test Graphs

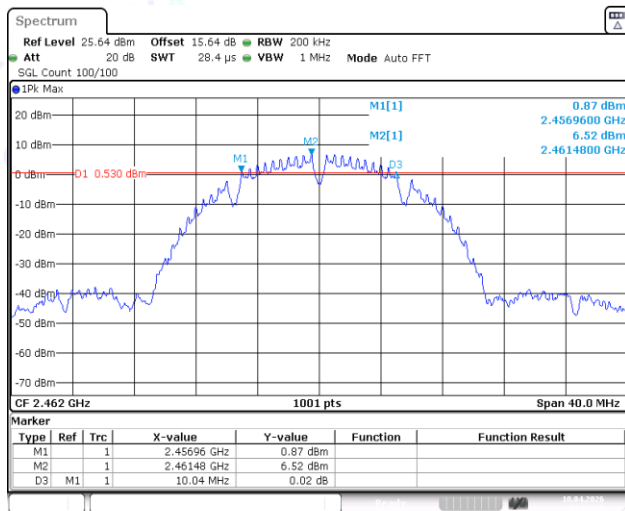


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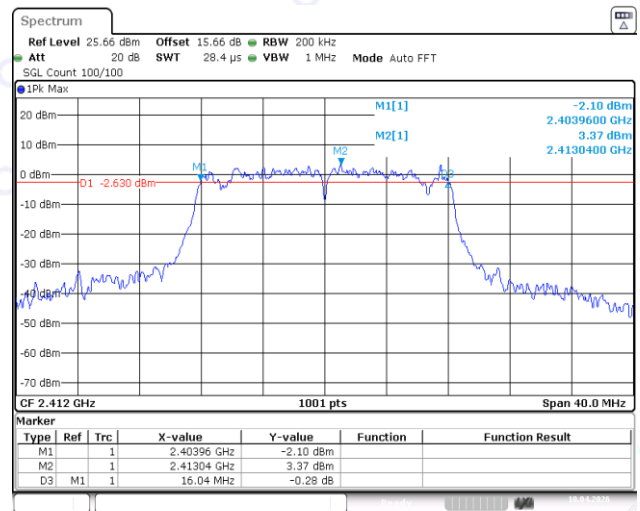
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11B-Ant1-2412-PASS



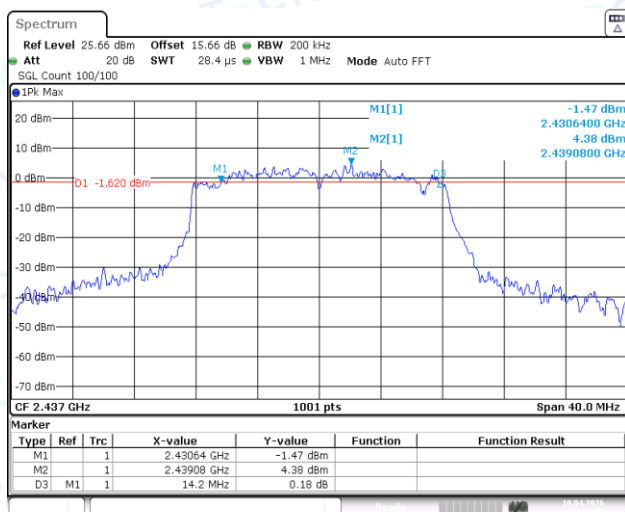
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11B-Ant1-2437-PASS



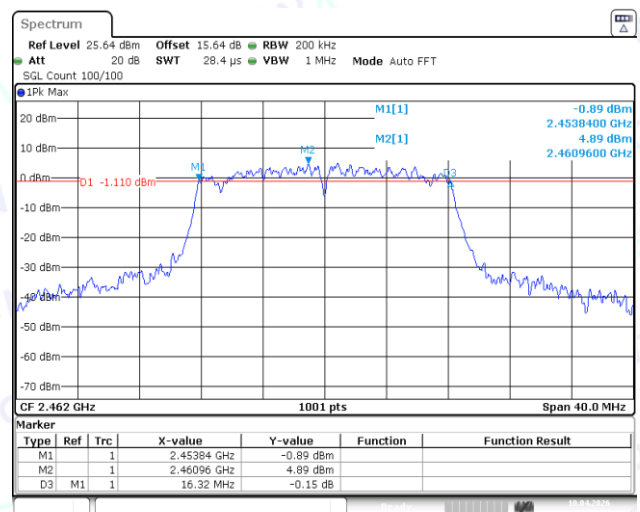
Date: 10.APR.2026 12:42:13

11B-Ant1-2462-PASS



Date: 10.APR.2026 12:49:15

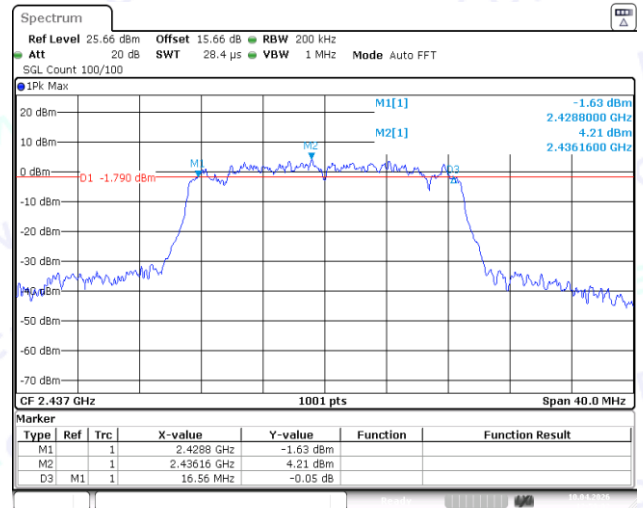
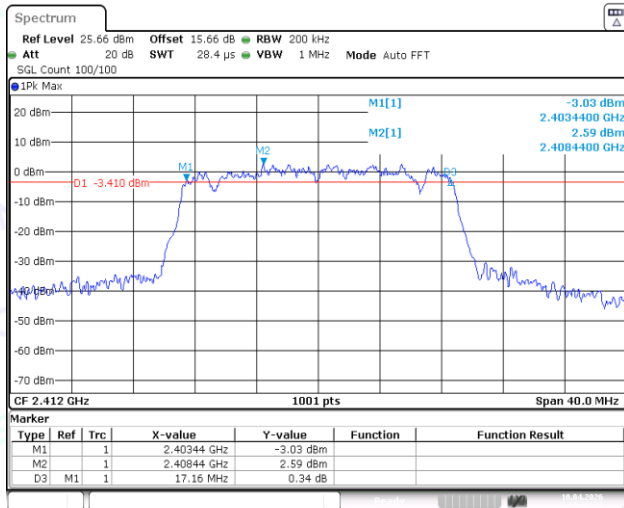
11G-Ant1-2412-PASS



Date: 10.APR.2026 12:52:04

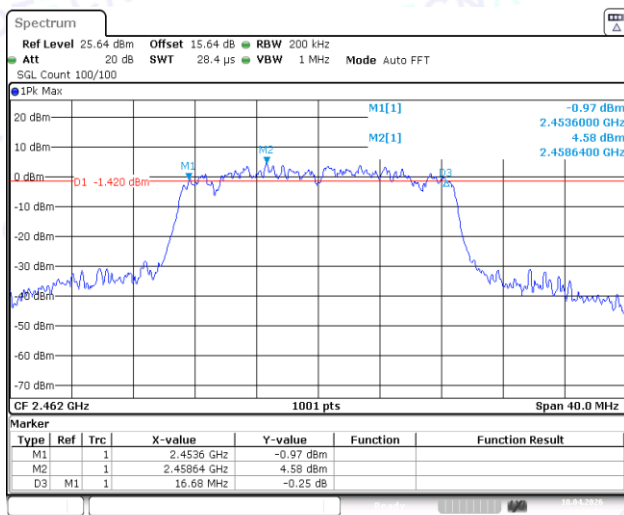
11G-Ant1-2437-PASS

11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS

11N20SISO-Ant1-2437-PASS



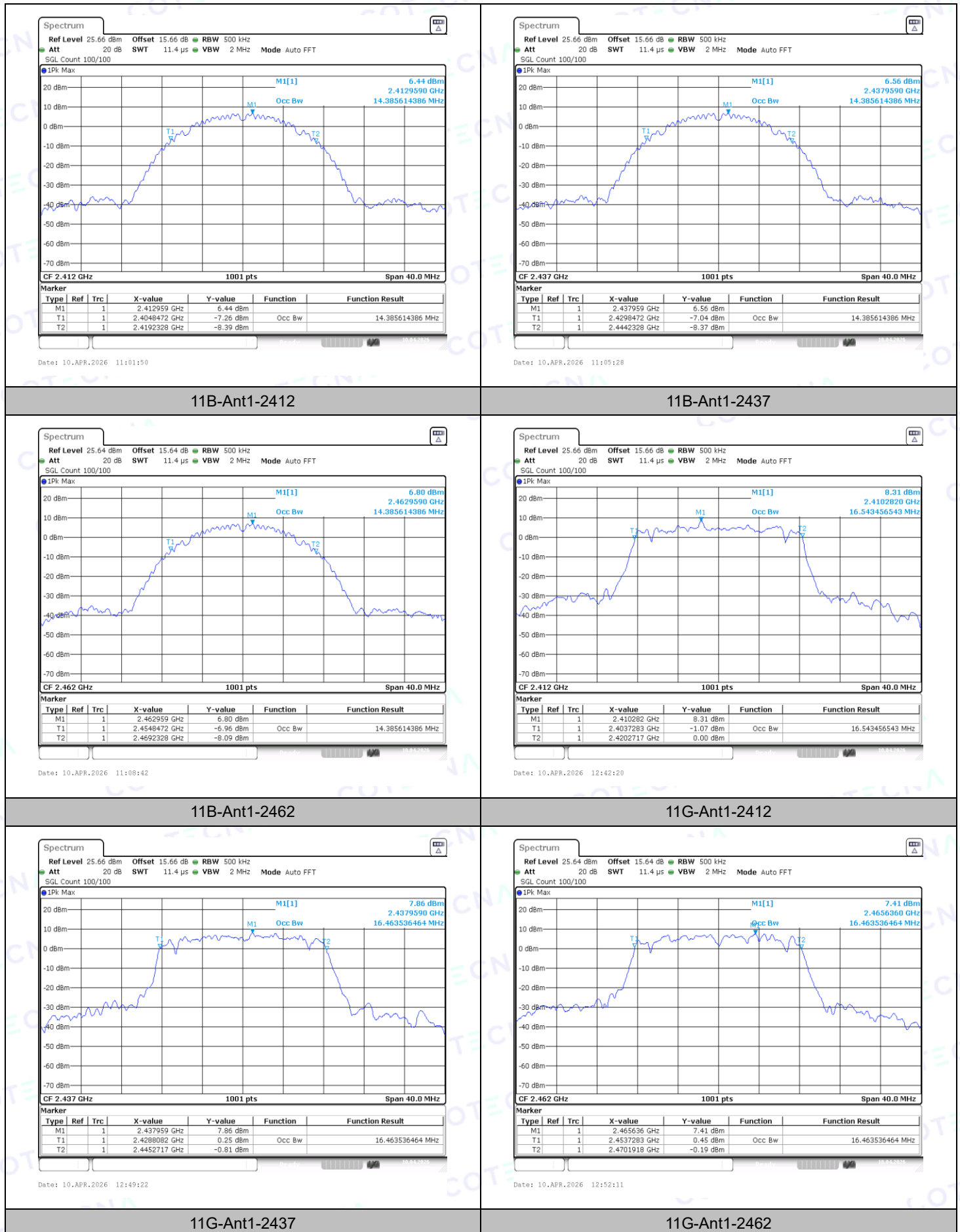
11N20SISO-Ant1-2462-PASS

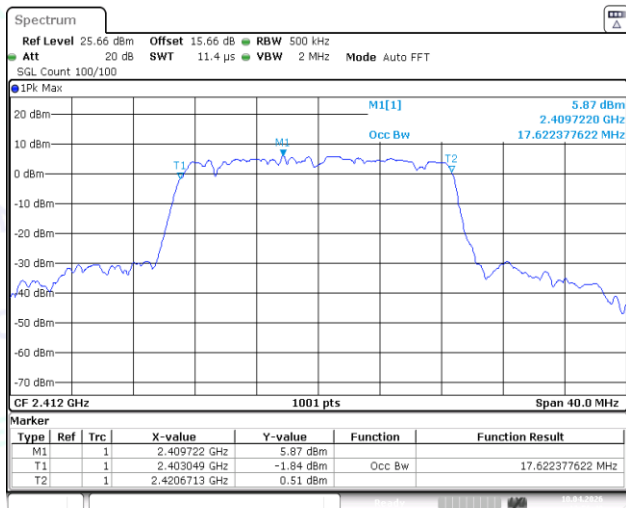
2: Occupied Channel Bandwidth

2.1 Test Result

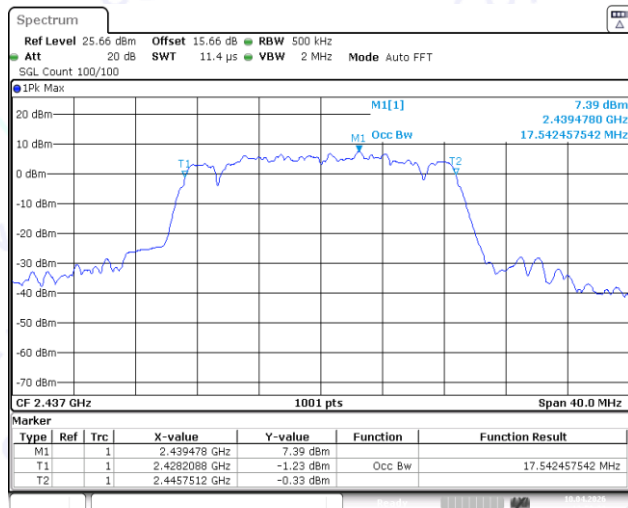
TestMode	Ant.	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.386	2404.8472	2419.2328	---	---
11B	Ant1	2437	14.386	2429.8472	2444.2328	---	---
11B	Ant1	2462	14.386	2454.8472	2469.2328	---	---
11G	Ant1	2412	16.543	2403.7283	2420.2717	---	---
11G	Ant1	2437	16.464	2428.8082	2445.2717	---	---
11G	Ant1	2462	16.464	2453.7283	2470.1918	---	---
11N20SISO	Ant1	2412	17.622	2403.0490	2420.6713	---	---
11N20SISO	Ant1	2437	17.542	2428.2088	2445.7512	---	---
11N20SISO	Ant1	2462	17.423	2453.3287	2470.7512	---	---

2.2 Test Graphs

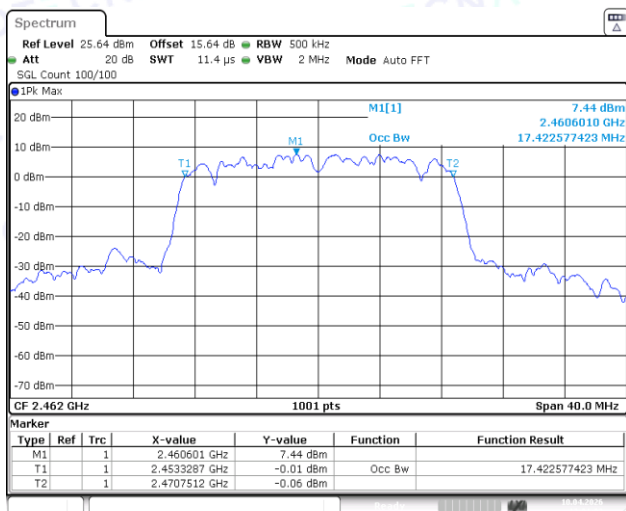




11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

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	14.77	0.00	14.77	≤30.00	PASS
11B	Ant1	2437	14.85	0.00	14.85	≤30.00	PASS
11B	Ant1	2462	15.12	0.00	15.12	≤30.00	PASS
11G	Ant1	2412	7.86	6.96	14.82	≤30.00	PASS
11G	Ant1	2437	9.12	6.96	16.08	≤30.00	PASS
11G	Ant1	2462	8.91	6.96	15.87	≤30.00	PASS
11N20SISO	Ant1	2412	8.18	6.96	15.14	≤30.00	PASS
11N20SISO	Ant1	2437	8.04	6.96	15.00	≤30.00	PASS
11N20SISO	Ant1	2462	9.20	6.96	16.16	≤30.00	PASS

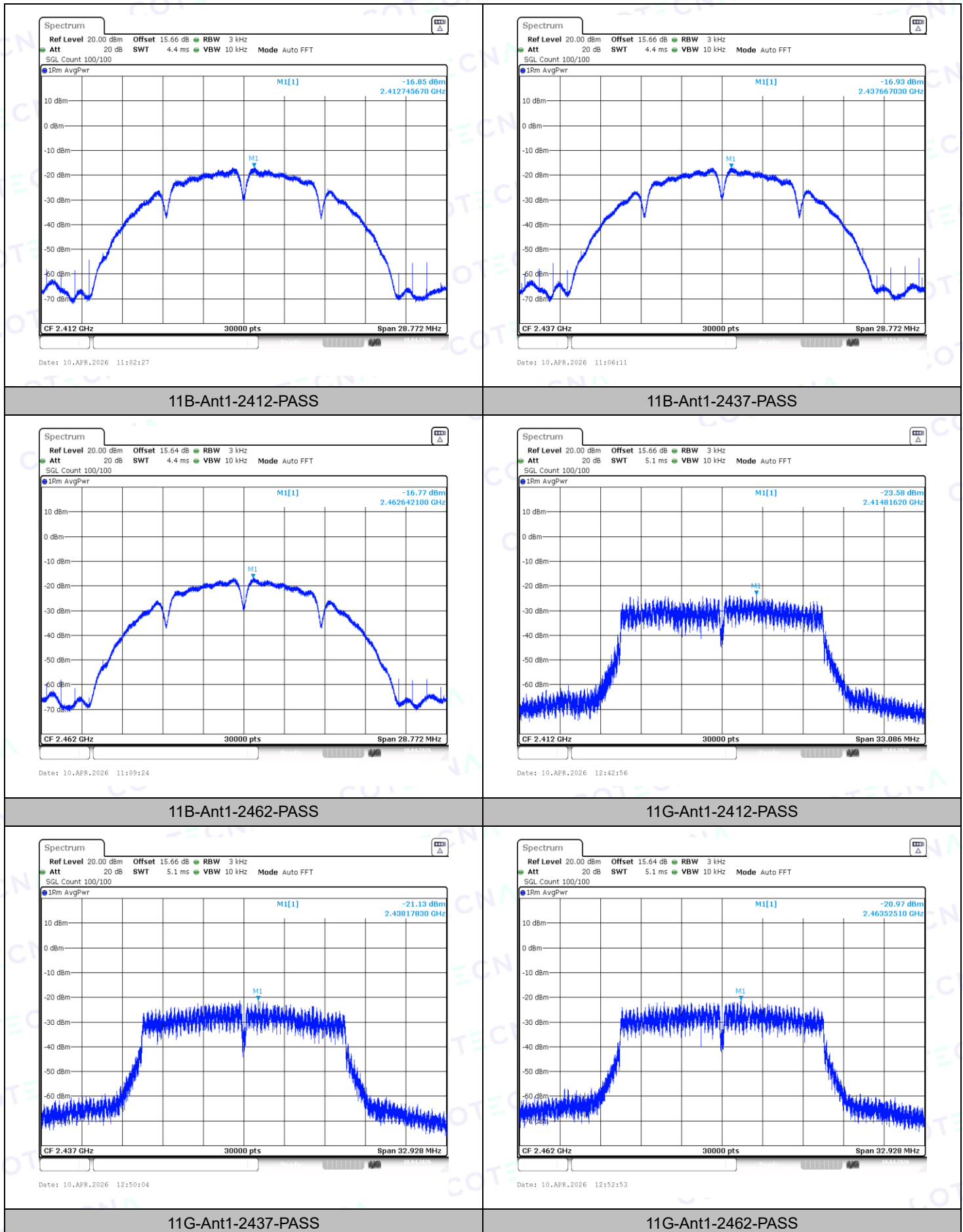
4: Maximum power spectral density

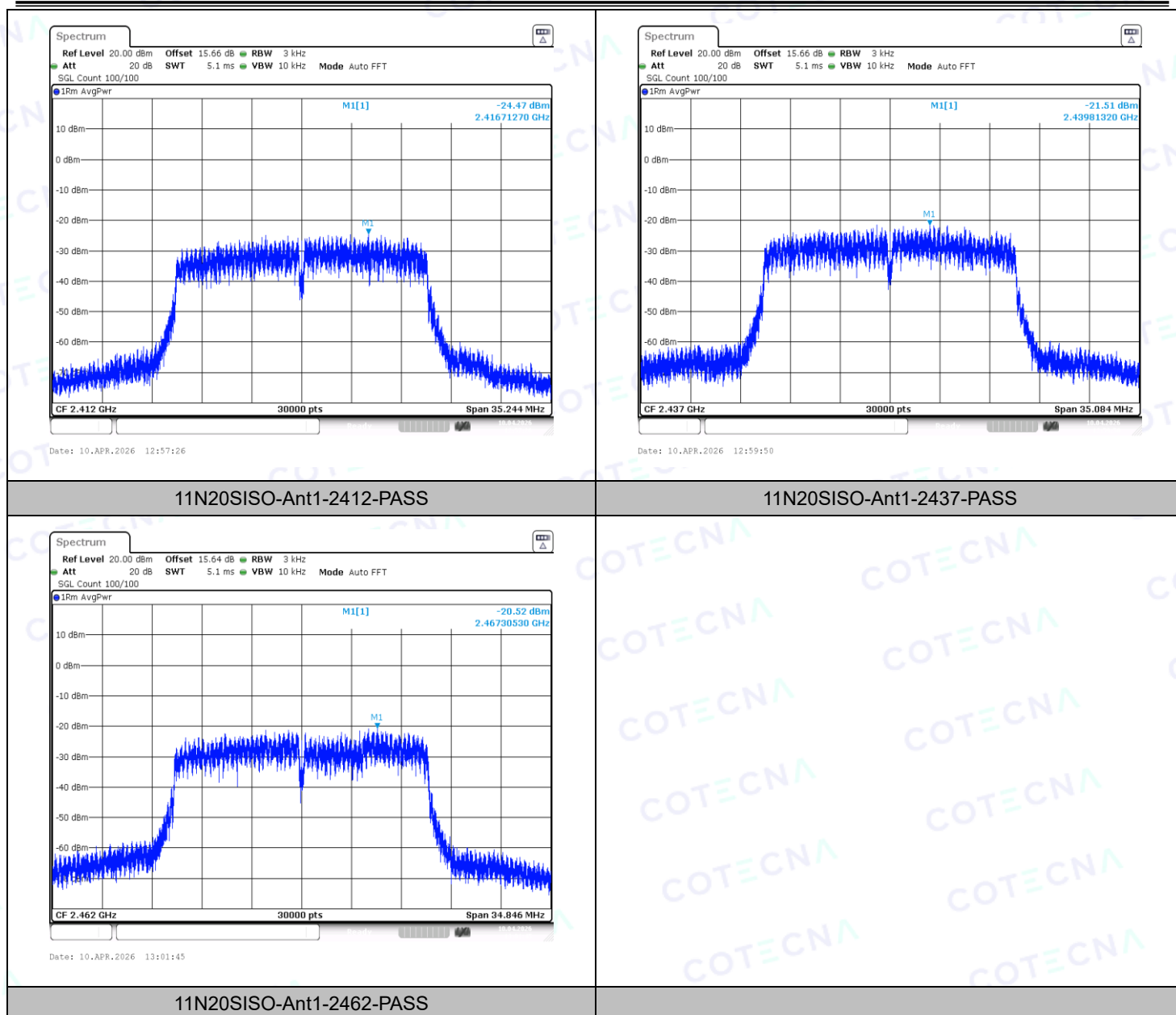
4.1 Test Result

TestMode	Ant.	Frequency[MHz]	RawData [dBm/3kHz]	DC Factor	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-16.85	0.00	-16.85	≤8.00	PASS
11B	Ant1	2437	-16.93	0.00	-16.93	≤8.00	PASS
11B	Ant1	2462	-16.77	0.00	-16.77	≤8.00	PASS
11G	Ant1	2412	-23.58	6.96	-16.62	≤8.00	PASS
11G	Ant1	2437	-21.13	6.96	-14.17	≤8.00	PASS
11G	Ant1	2462	-20.97	6.96	-14.01	≤8.00	PASS
11N20SISO	Ant1	2412	-24.47	6.96	-17.51	≤8.00	PASS
11N20SISO	Ant1	2437	-21.51	6.96	-14.55	≤8.00	PASS
11N20SISO	Ant1	2462	-20.52	6.96	-13.56	≤8.00	PASS

Note: RF Conducted test Offset= cable loss+ Attenuator

4.2 Test Graphs



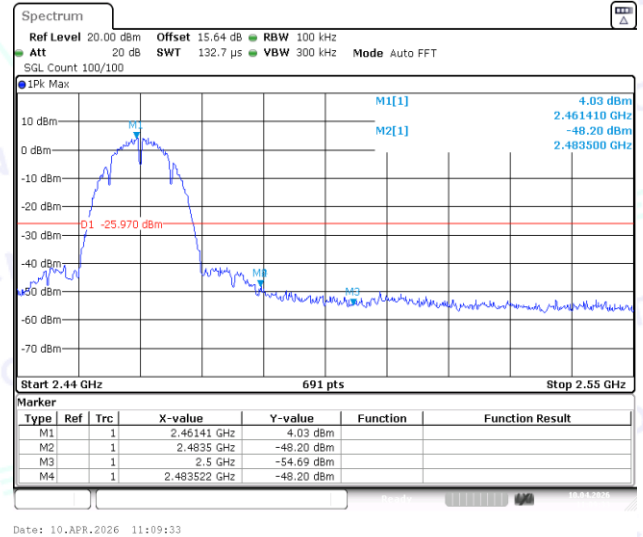
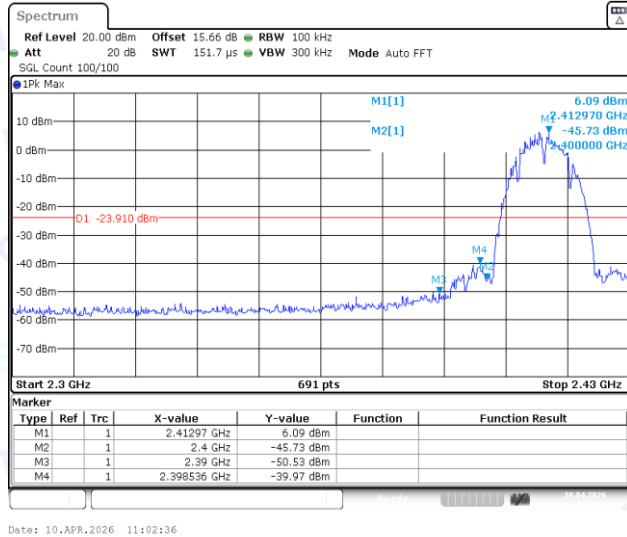


5: Band edge measurements

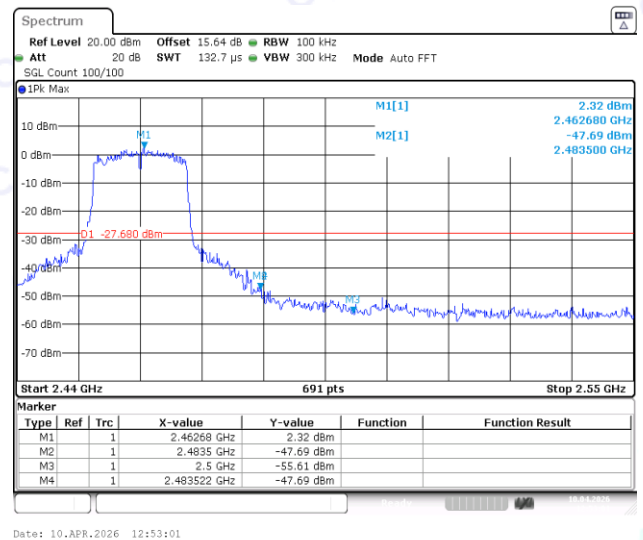
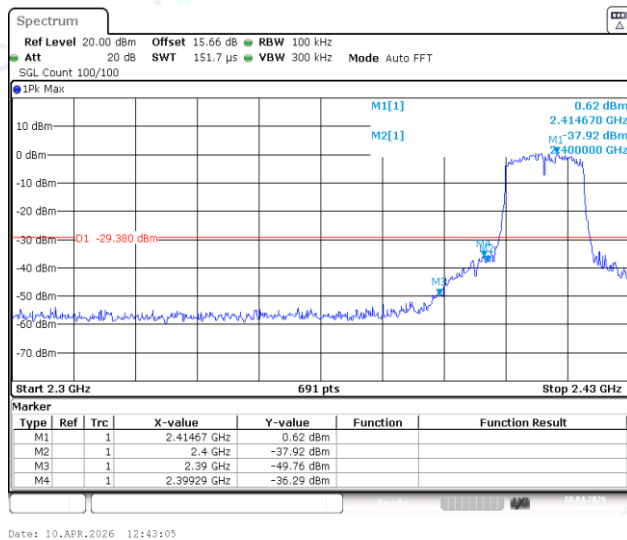
5.1 Test Result

TestMode	Ant.	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.09	-39.97	≤-23.91	PASS
11B	Ant1	High	2462	4.03	-48.2	≤-25.97	PASS
11G	Ant1	Low	2412	0.62	-36.29	≤-29.38	PASS
11G	Ant1	High	2462	2.32	-47.69	≤-27.68	PASS
11N20SISO	Ant1	Low	2412	0.35	-35.94	≤-29.65	PASS
11N20SISO	Ant1	High	2462	1.79	-44.5	≤-28.21	PASS

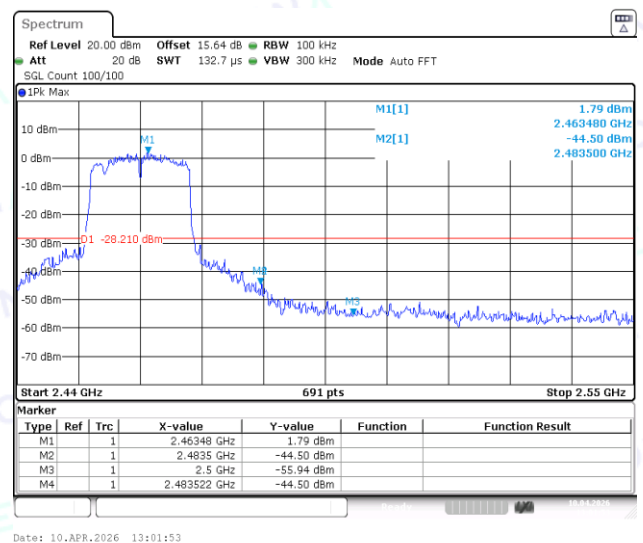
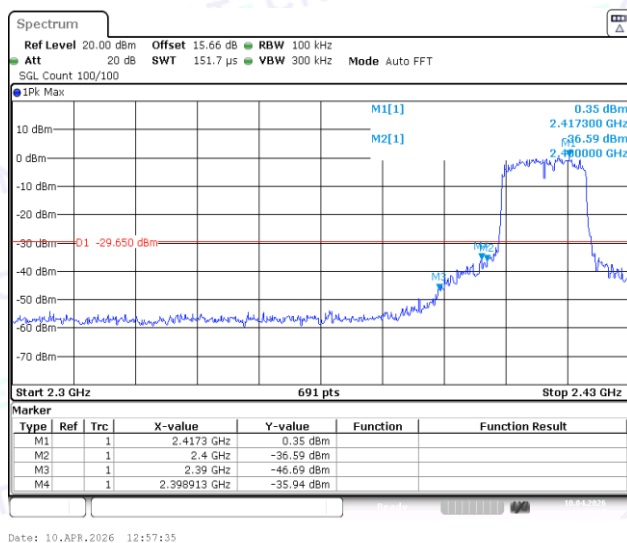
5.2 Test Graphs



11B-Ant1-2412-PASS



11G-Ant1-2412-PASS



11N20SISO-Ant1-2412-PASS

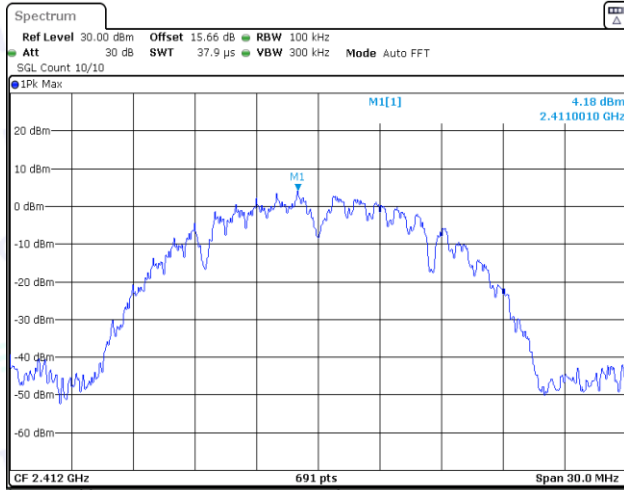
11N20SISO-Ant1-2462-PASS

6: Conducted Spurious Emission

6.1 Test Result

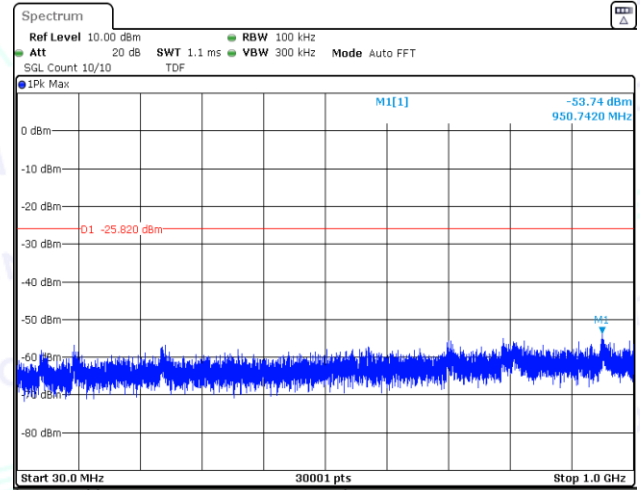
TestMode	Ant.	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	4.18	4.18	---	PASS
11B	Ant1	2412	30~1000	4.18	-53.74	≤-25.82	PASS
11B	Ant1	2412	1000~26500	4.18	-37.52	≤-25.82	PASS
11B	Ant1	2437	0~Reference	6.14	6.14	---	PASS
11B	Ant1	2437	30~1000	6.14	-52.8	≤-23.86	PASS
11B	Ant1	2437	1000~26500	6.14	-37.18	≤-23.86	PASS
11B	Ant1	2462	0~Reference	5.12	5.12	---	PASS
11B	Ant1	2462	30~1000	5.12	-54.97	≤-24.88	PASS
11B	Ant1	2462	1000~26500	5.12	-37.69	≤-24.88	PASS
11G	Ant1	2412	0~Reference	1.45	1.45	---	PASS
11G	Ant1	2412	30~1000	1.45	-53.8	≤-28.55	PASS
11G	Ant1	2412	1000~26500	1.45	-37.62	≤-28.55	PASS
11G	Ant1	2437	0~Reference	1.49	1.49	---	PASS
11G	Ant1	2437	30~1000	1.49	-52.59	≤-28.51	PASS
11G	Ant1	2437	1000~26500	1.49	-37.65	≤-28.51	PASS
11G	Ant1	2462	0~Reference	1.79	1.79	---	PASS
11G	Ant1	2462	30~1000	1.79	-54.38	≤-28.21	PASS
11G	Ant1	2462	1000~26500	1.79	-37.6	≤-28.21	PASS
11N20SISO	Ant1	2412	0~Reference	0.32	0.32	---	PASS
11N20SISO	Ant1	2412	30~1000	0.32	-53.95	≤-29.68	PASS
11N20SISO	Ant1	2412	1000~26500	0.32	-37.21	≤-29.68	PASS
11N20SISO	Ant1	2437	0~Reference	2.27	2.27	---	PASS
11N20SISO	Ant1	2437	30~1000	2.27	-53.45	≤-27.73	PASS
11N20SISO	Ant1	2437	1000~26500	2.27	-37.16	≤-27.73	PASS
11N20SISO	Ant1	2462	0~Reference	2.12	2.12	---	PASS
11N20SISO	Ant1	2462	30~1000	2.12	-53.63	≤-27.88	PASS
11N20SISO	Ant1	2462	1000~26500	2.12	-37.59	≤-27.88	PASS

6.2 Test Graphs



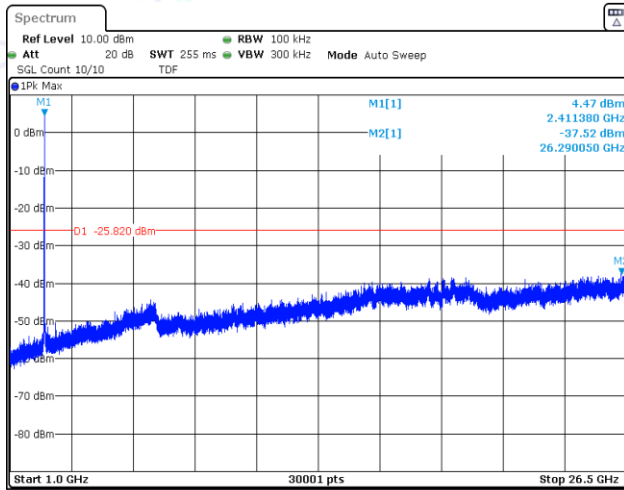
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11B-Ant1-2412-0~Reference-PASS



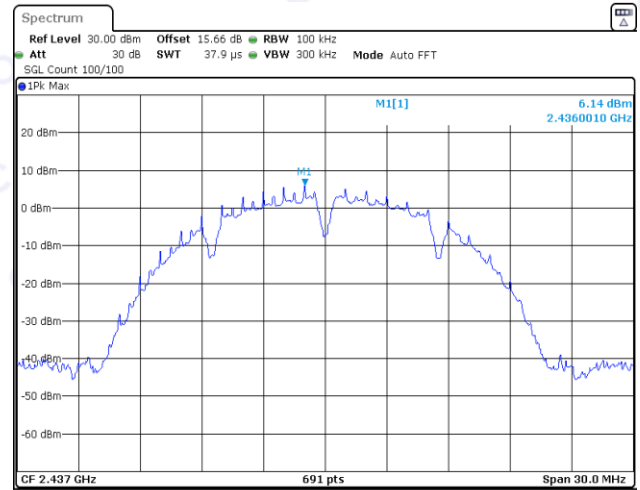
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11B-Ant1-2412-30~1000-PASS



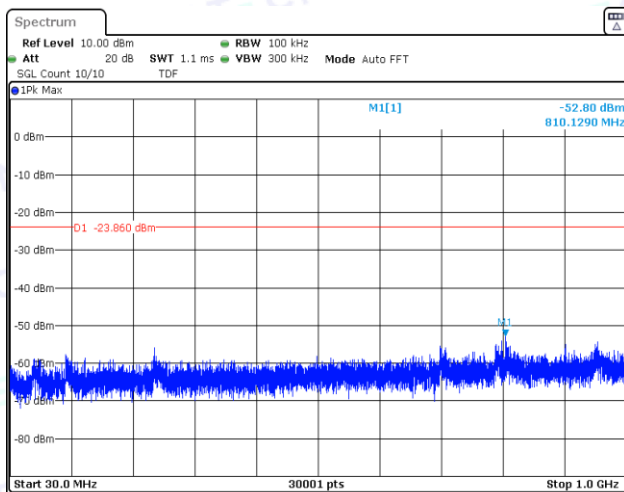
Date: 10.APR.2026 11:04:44

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



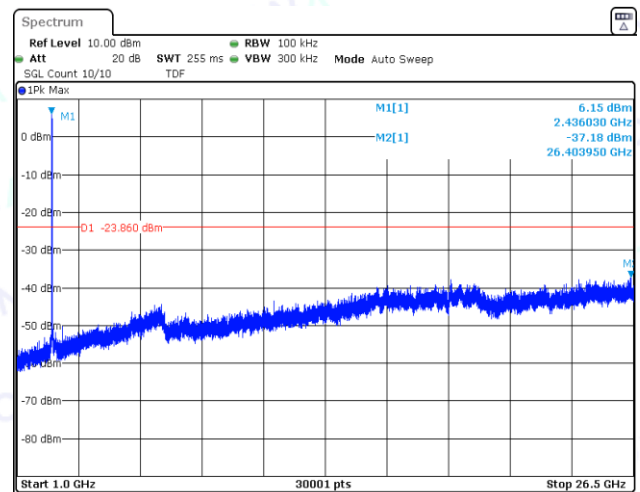
Date: 10.APR.2026 11:07:34

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



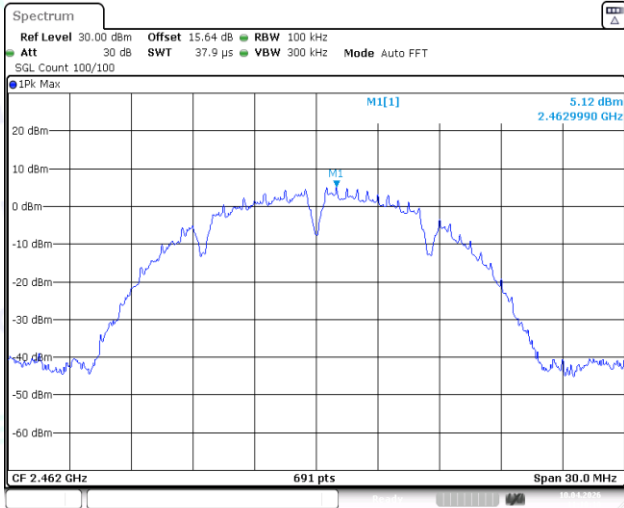
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11B-Ant1-2437-30~1000-PASS

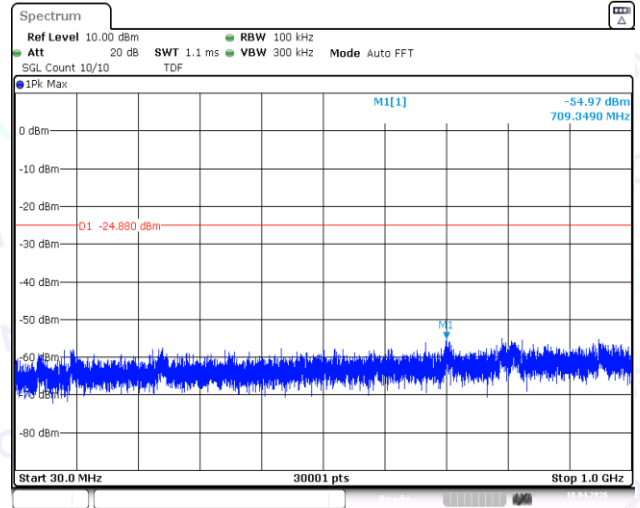


Date: 10.APR.2026 11:08:00

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



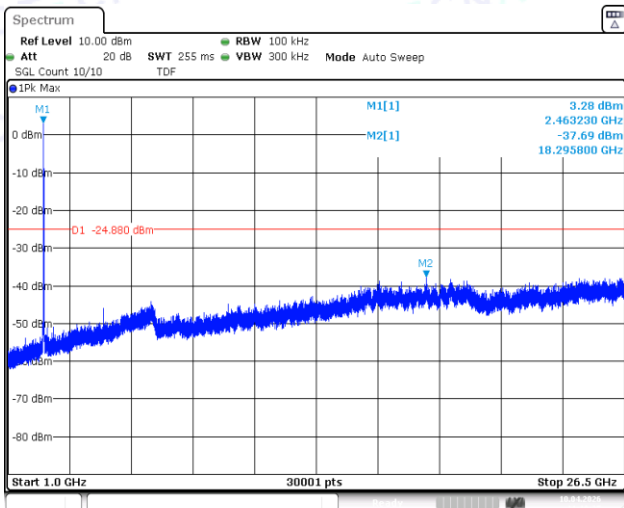
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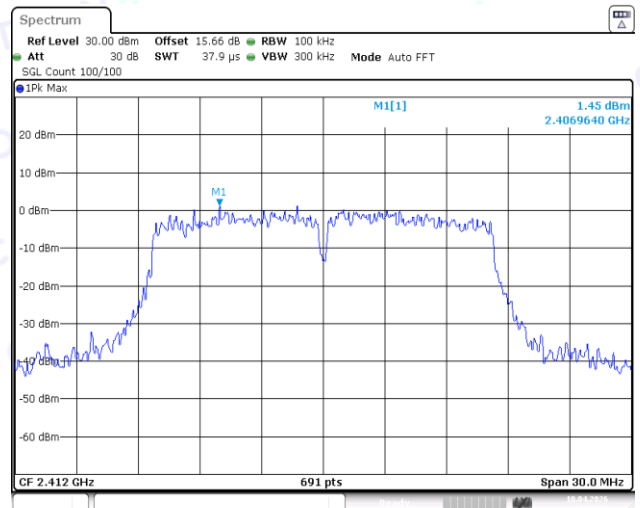
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11B-Ant1-2462-0~Reference-PASS

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



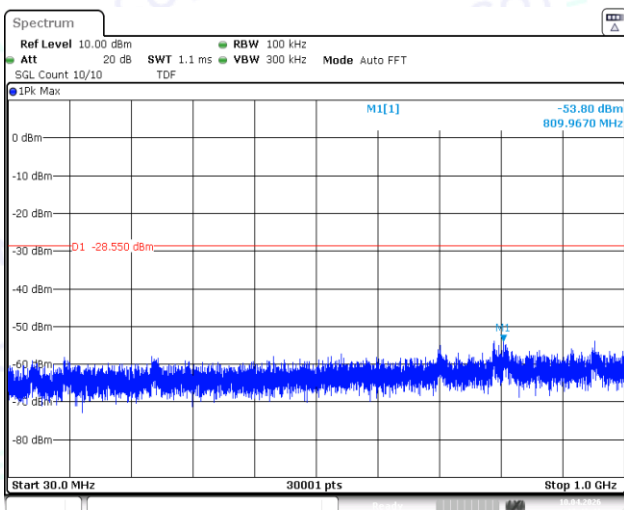
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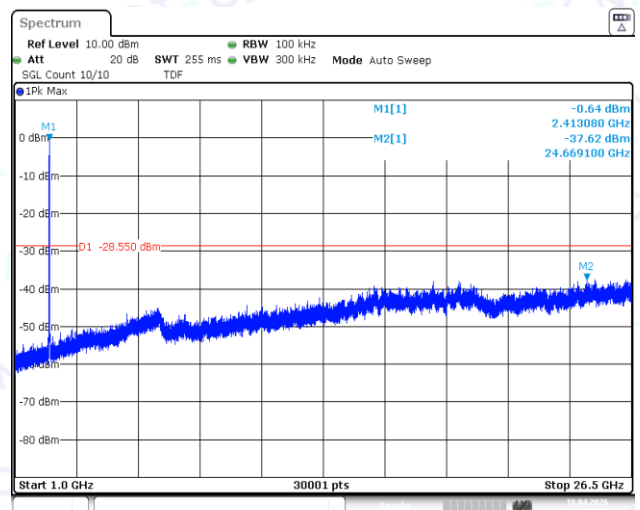
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11B-Ant1-2462-1000~26500-PASS

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



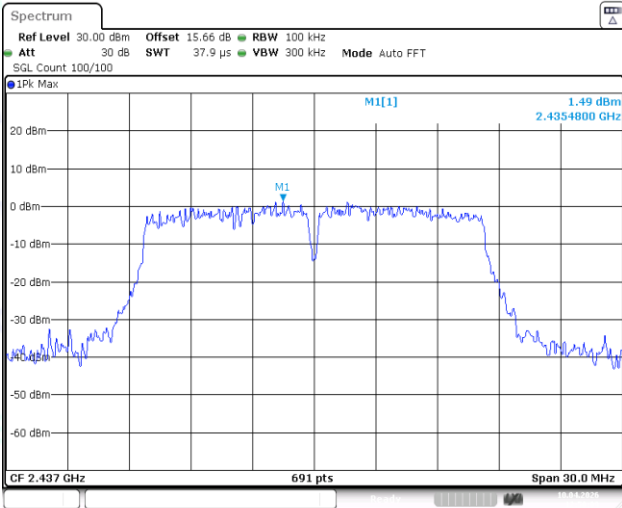
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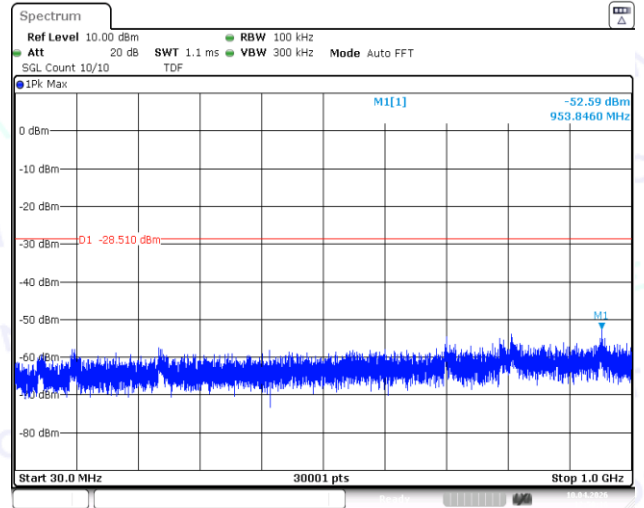
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11G-Ant1-2412-30~1000-PASS

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



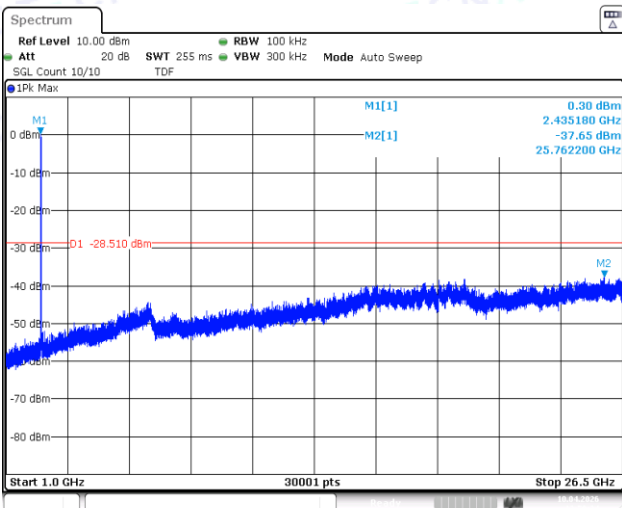
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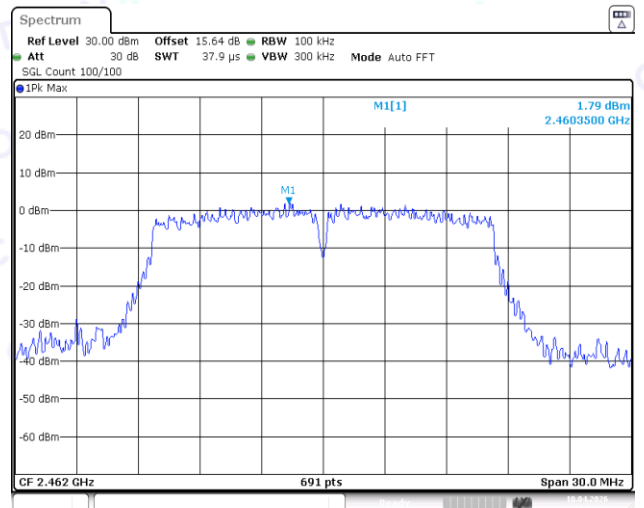
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11G-Ant1-2437-0~Reference-PASS

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



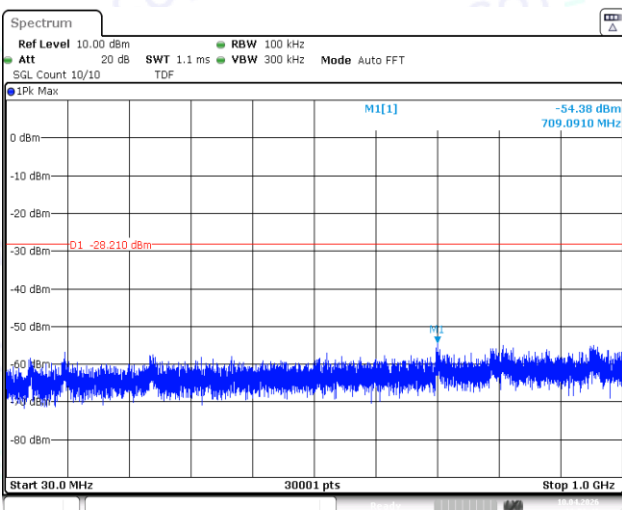
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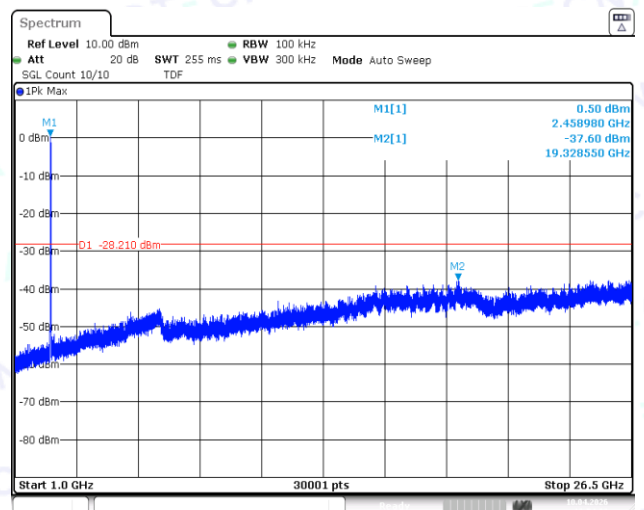
Date: 10.APR.2026 12:53:38

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

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



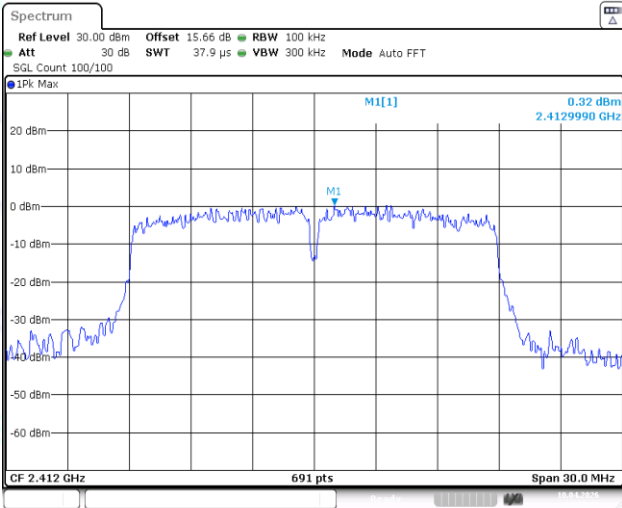
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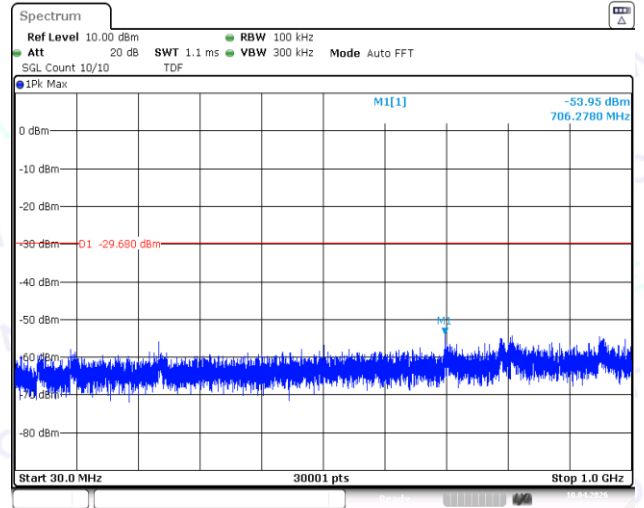
11G-Ant1-2462-30~1000-PASS

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



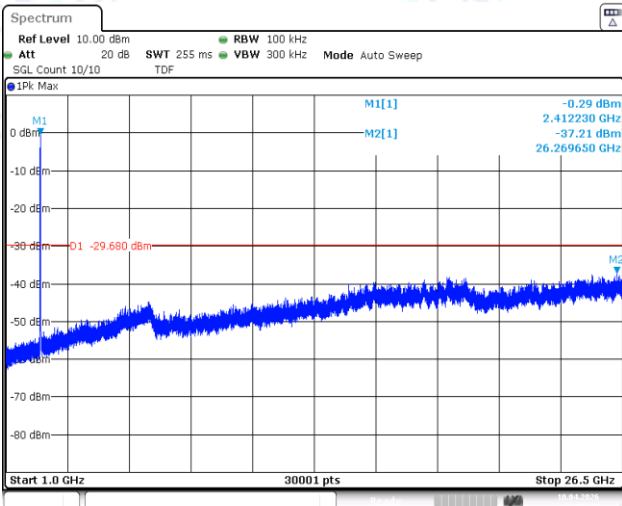
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11N20SISO-Ant1-2412-0~Reference-PASS



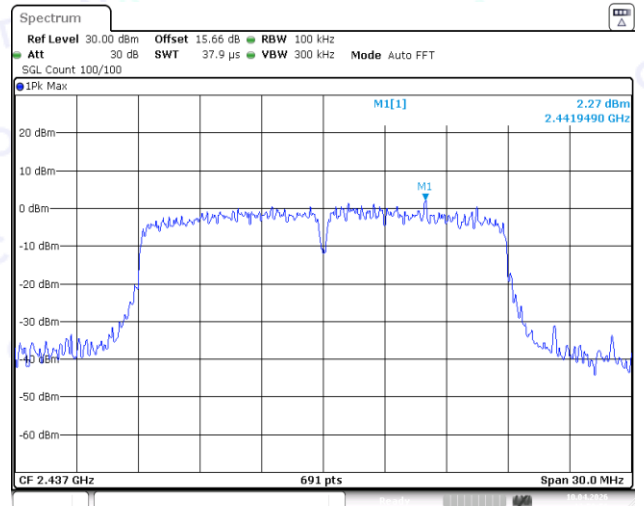
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11N20SISO-Ant1-2412-30~1000-PASS



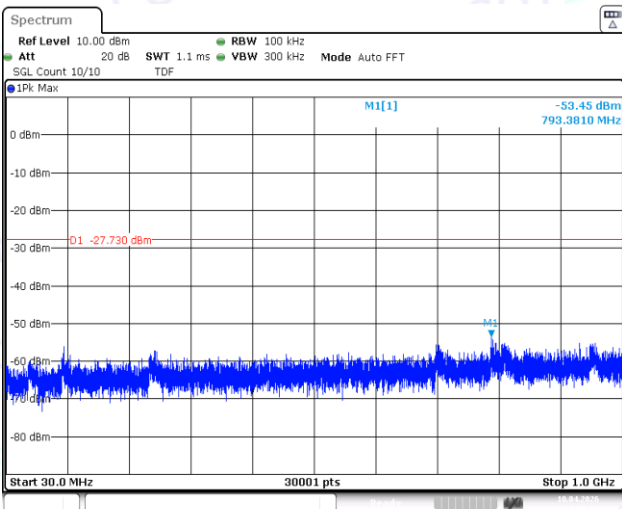
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11N20SISO-Ant1-2412-1000~26500-PASS



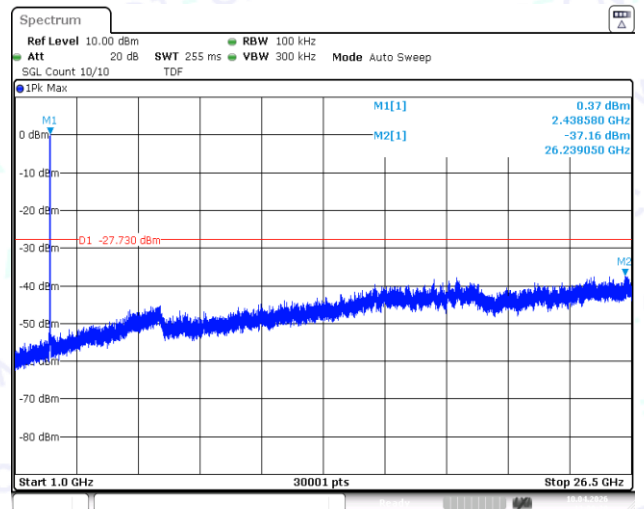
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11N20SISO-Ant1-2437-0~Reference-PASS



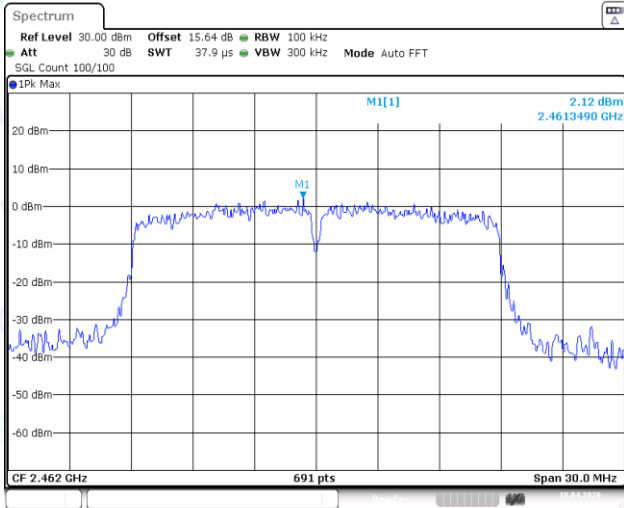
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11N20SISO-Ant1-2437-30~1000-PASS

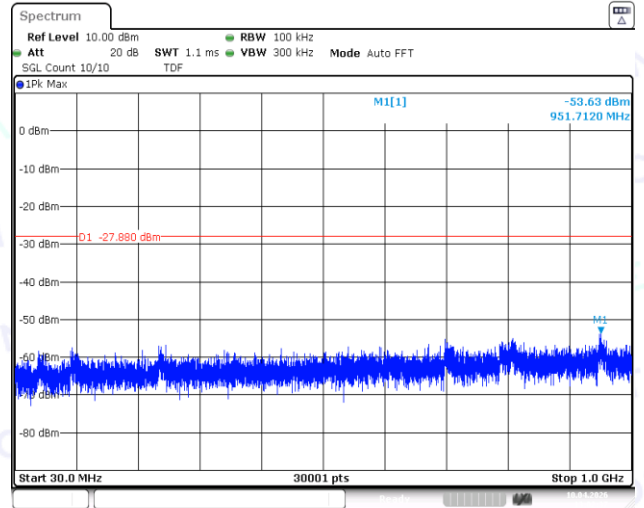


Date: 10.APR.2026 13:00:20

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



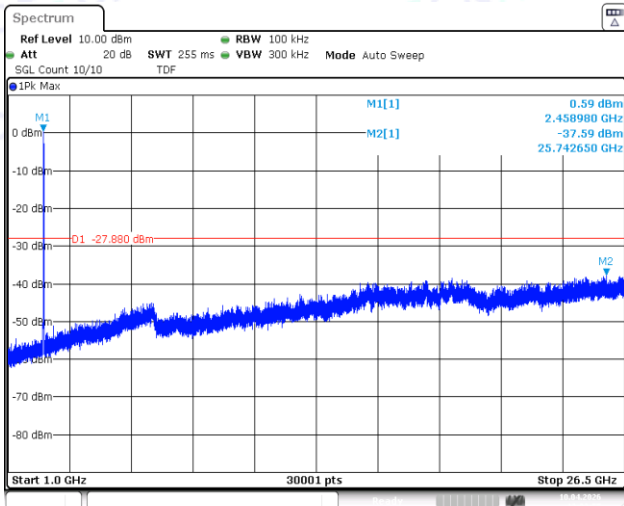
Date: 10.APR.2026 13:02:30



Date: 10.APR.2026 13:02:38

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

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



Date: 10.APR.2026 13:02:55

11N20SISO-Ant1-2462-1000~26500-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	1.00	1.00	100.00	0.00	1.00
11G	Ant1	2412	1.39	6.90	20.14	6.96	0.72
11N20SISO	Ant1	2412	1.30	6.45	20.16	6.96	0.77

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

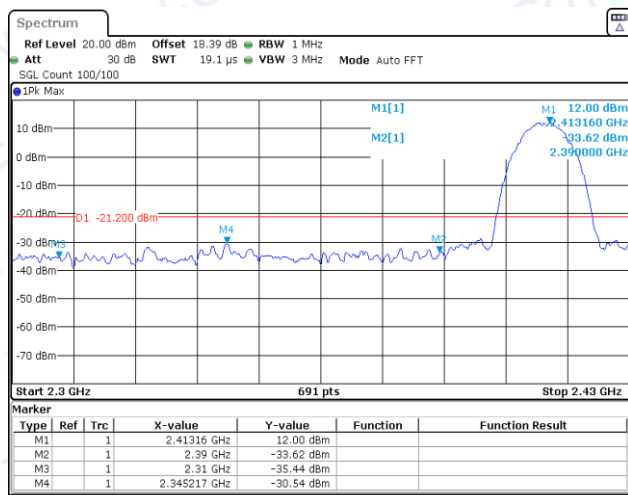
8.1 Test Result

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	-33.62	≤-21.20	61.58	≤74	PASS
11B	Ant1	Low	2412	Peak	2310.000	-35.44	≤-21.20	59.76	≤74	PASS
11B	Ant1	Low	2412	Peak	2345.217	-30.54	≤-21.20	64.66	≤74	PASS
11B	Ant1	Low	2412	AV	2390.000	-49.09	≤-41.20	46.11	≤54	PASS
11B	Ant1	Low	2412	AV	2310.000	-58.04	≤-41.20	37.16	≤54	PASS
11B	Ant1	Low	2412	AV	2387.797	-49.16	≤-41.20	46.04	≤54	PASS
11B	Ant1	High	2462	Peak	2483.500	-33.73	≤-21.20	61.47	≤74	PASS
11B	Ant1	High	2462	Peak	2500.000	-34.01	≤-21.20	61.19	≤74	PASS
11B	Ant1	High	2462	Peak	2484.000	-32.78	≤-21.20	62.42	≤74	PASS
11B	Ant1	High	2462	AV	2483.500	-46.65	≤-41.20	48.55	≤54	PASS
11B	Ant1	High	2462	AV	2500.000	-51.42	≤-41.20	43.78	≤54	PASS
11B	Ant1	High	2462	AV	2483.681	-46.63	≤-41.20	48.57	≤54	PASS
11G	Ant1	Low	2412	Peak	2390.000	-36.23	≤-21.20	58.97	≤74	PASS
11G	Ant1	Low	2412	Peak	2310.000	-35.41	≤-21.20	59.79	≤74	PASS
11G	Ant1	Low	2412	Peak	2339.565	-30.92	≤-21.20	64.28	≤74	PASS
11G	Ant1	Low	2412	AV	2390.000	-50.11	≤-41.20	45.09	≤54	PASS
11G	Ant1	Low	2412	AV	2310.000	-61.53	≤-41.20	33.67	≤54	PASS
11G	Ant1	Low	2412	AV	2389.304	-50.35	≤-41.20	44.85	≤54	PASS
11G	Ant1	High	2462	Peak	2483.500	-33.49	≤-21.20	61.71	≤74	PASS
11G	Ant1	High	2462	Peak	2500.000	-35.18	≤-21.20	60.02	≤74	PASS
11G	Ant1	High	2462	Peak	2483.522	-33.49	≤-21.20	61.71	≤74	PASS
11G	Ant1	High	2462	AV	2483.500	-49.37	≤-41.20	45.83	≤54	PASS
11G	Ant1	High	2462	AV	2500.000	-57.53	≤-41.20	37.67	≤54	PASS
11G	Ant1	High	2462	AV	2484.319	-48.94	≤-41.20	46.26	≤54	PASS
11N20SISO	Ant1	Low	2412	Peak	2390.000	-33.36	≤-21.20	61.84	≤74	PASS
11N20SISO	Ant1	Low	2412	Peak	2310.000	-34.97	≤-21.20	60.23	≤74	PASS
11N20SISO	Ant1	Low	2412	Peak	2342.768	-30.63	≤-21.20	64.57	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2390.000	-49.45	≤-41.20	45.75	≤54	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-62.09	≤-41.20	33.11	≤54	PASS
11N20SISO	Ant1	Low	2412	AV	2389.870	-49.59	≤-41.20	45.61	≤54	PASS
11N20SISO	Ant1	High	2462	Peak	2483.500	-33.32	≤-21.20	61.88	≤74	PASS
11N20SISO	Ant1	High	2462	Peak	2500.000	-35.85	≤-21.20	59.35	≤74	PASS
11N20SISO	Ant1	High	2462	Peak	2498.667	-31.85	≤-21.20	63.35	≤74	PASS
11N20SISO	Ant1	High	2462	AV	2483.500	-49.21	≤-41.20	45.99	≤54	PASS
11N20SISO	Ant1	High	2462	AV	2500.000	-56.43	≤-41.20	38.77	≤54	PASS
11N20SISO	Ant1	High	2462	AV	2484.957	-47.7	≤-41.20	47.50	≤54	PASS

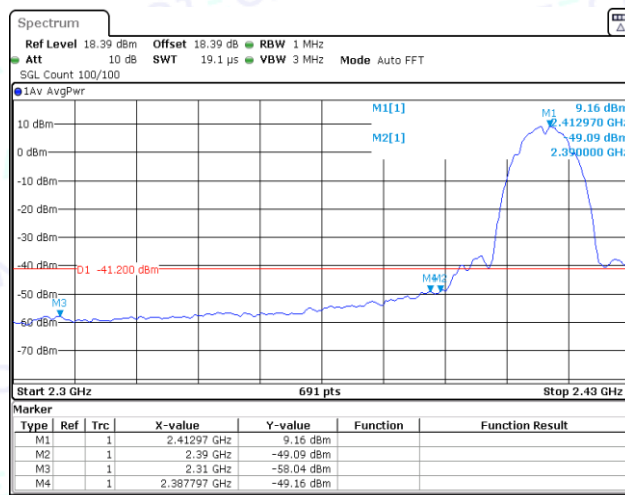
Note:

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



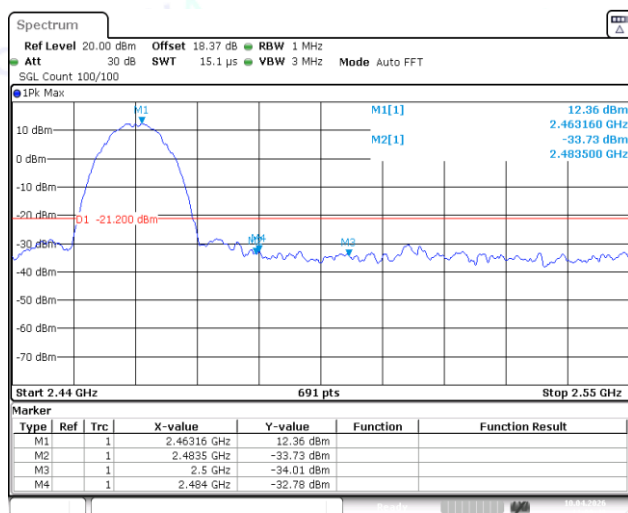
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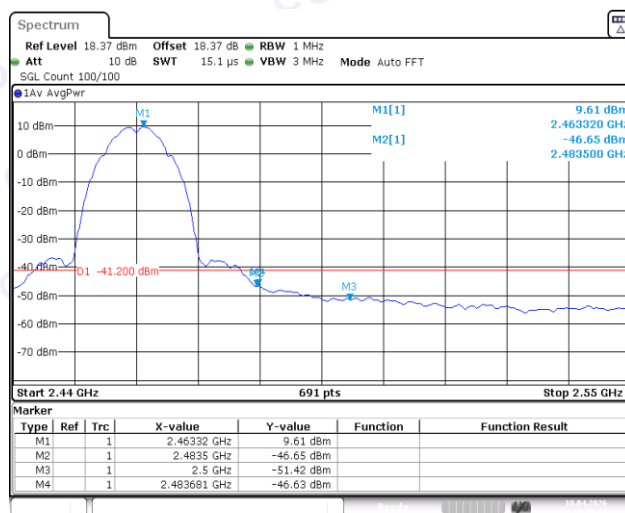
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11B-Ant1-2412-PASS

11B-Ant1-2412-PASS



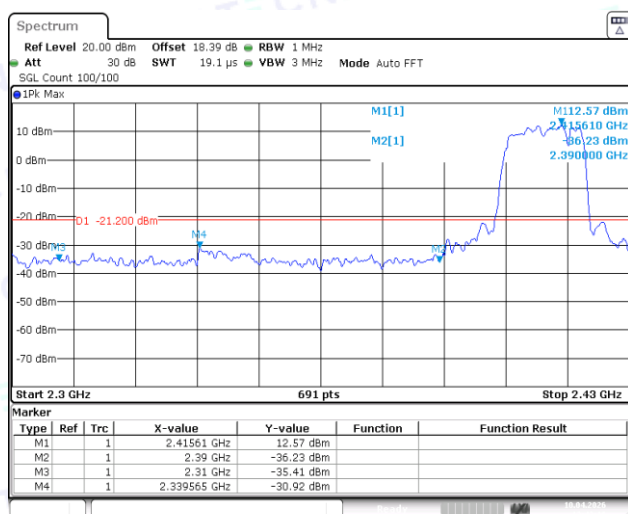
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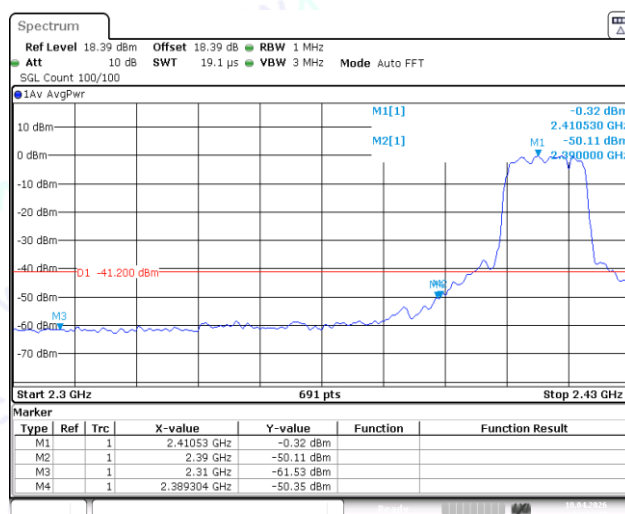
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11B-Ant1-2462-PASS

11B-Ant1-2462-PASS



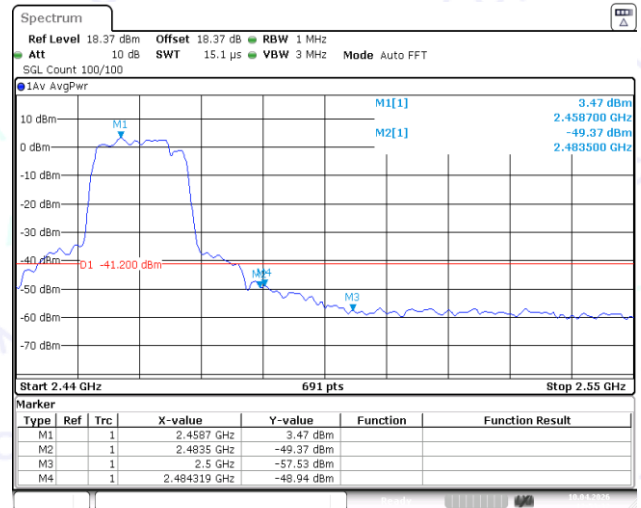
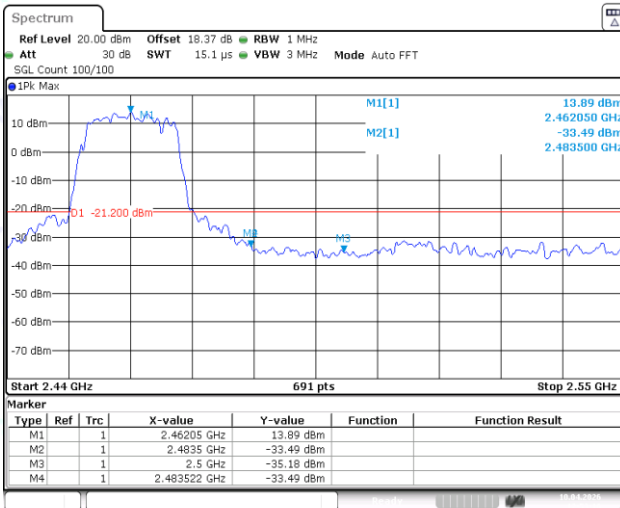
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Date: 10.APR.2026 12:43:27

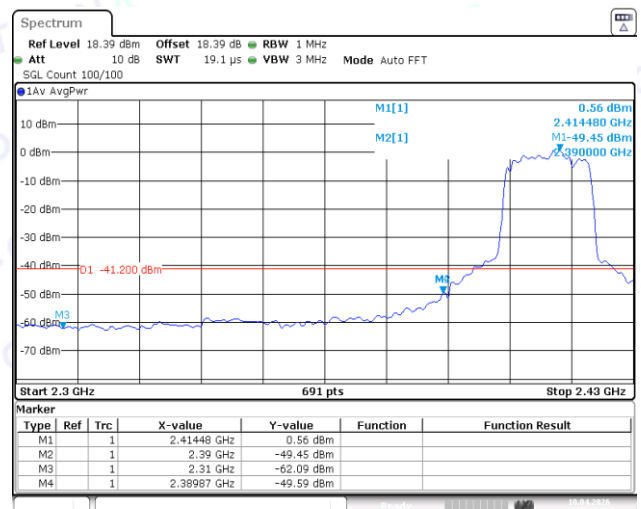
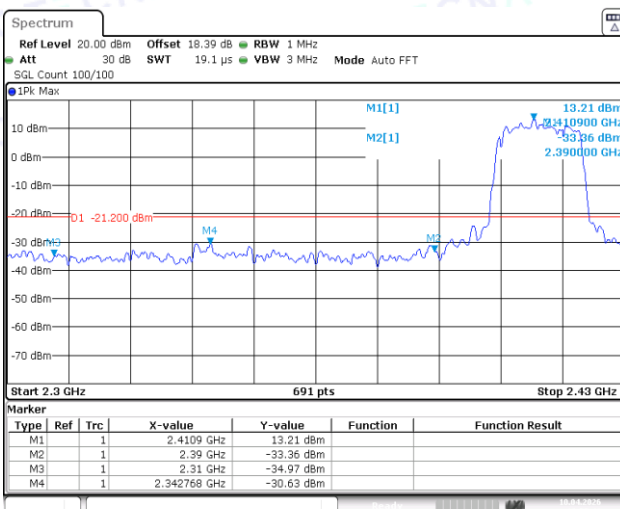
11G-Ant1-2412-PASS

11G-Ant1-2412-PASS



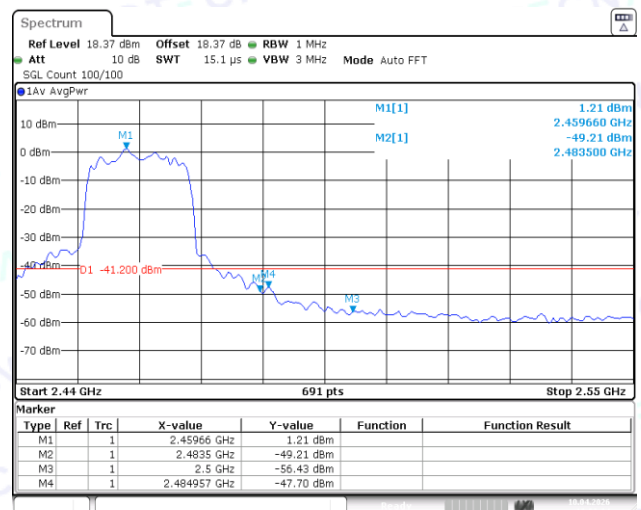
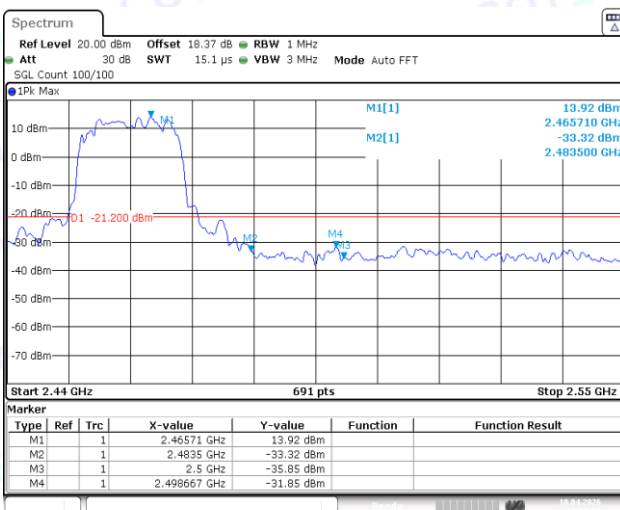
11G-Ant1-2462-PASS

11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS

11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

11N20SISO-Ant1-2462-PASS

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