

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2ART9-ELLIQNU310

Company : Intuition Robotics

EUT : ElliQ - K

Model Number : ElliQ NU310

Report No. : CTA26060201503

Reviewed By : Eric Wang

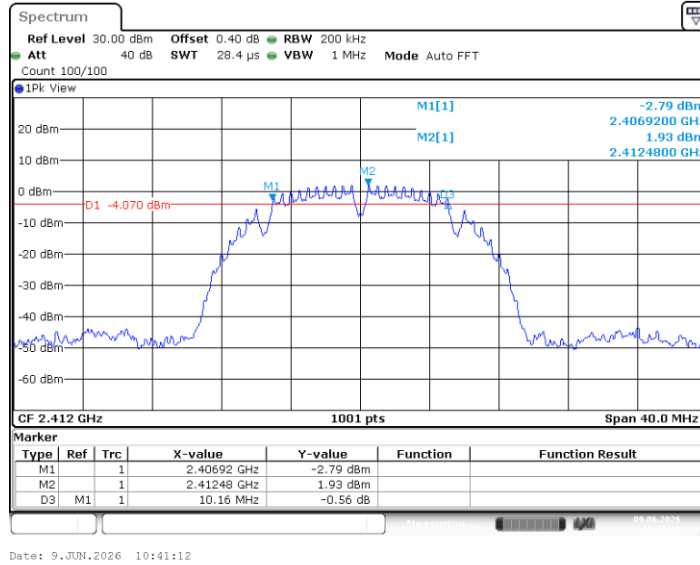
Appendix A: DTS Bandwidth

Test Result

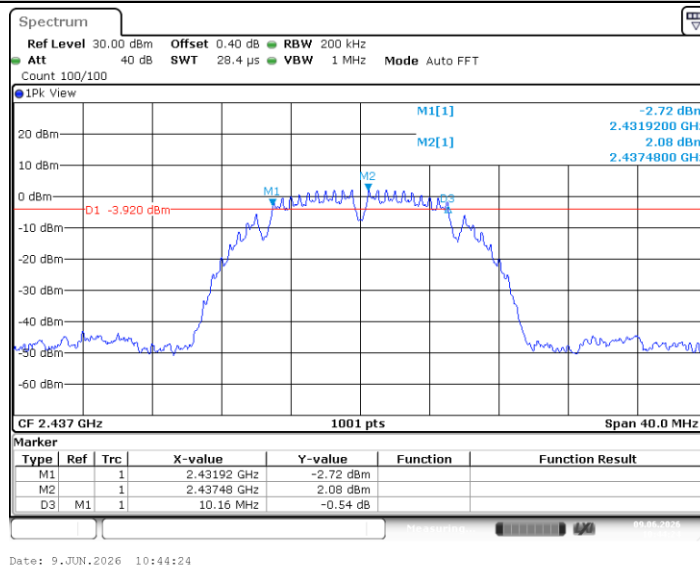
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.16	2406.92	2417.08	0.5	PASS
		2437	10.16	2431.92	2442.08	0.5	PASS
		2462	10.16	2456.92	2467.08	0.5	PASS
11G	Ant1	2412	15.76	2404.00	2419.76	0.5	PASS
		2437	15.56	2429.04	2444.60	0.5	PASS
		2462	15.56	2454.40	2469.96	0.5	PASS
11N20SISO	Ant1	2412	16.92	2403.64	2420.56	0.5	PASS
		2437	15.92	2429.04	2444.96	0.5	PASS
		2462	16.12	2454.40	2470.52	0.5	PASS
11N40SISO	Ant1	2422	35.36	2404.08	2439.44	0.5	PASS
		2437	35.92	2418.92	2454.84	0.5	PASS
		2452	35.68	2434.24	2469.92	0.5	PASS

Test Graphs

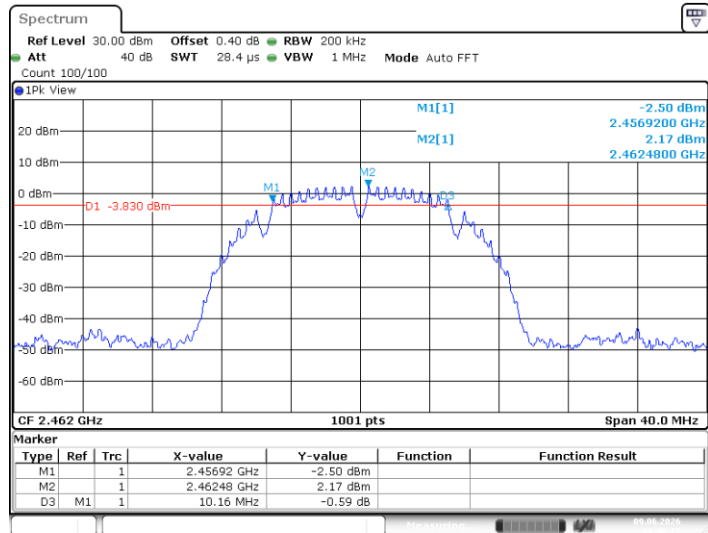
11B_Ant1_2412



11B_Ant1_2437

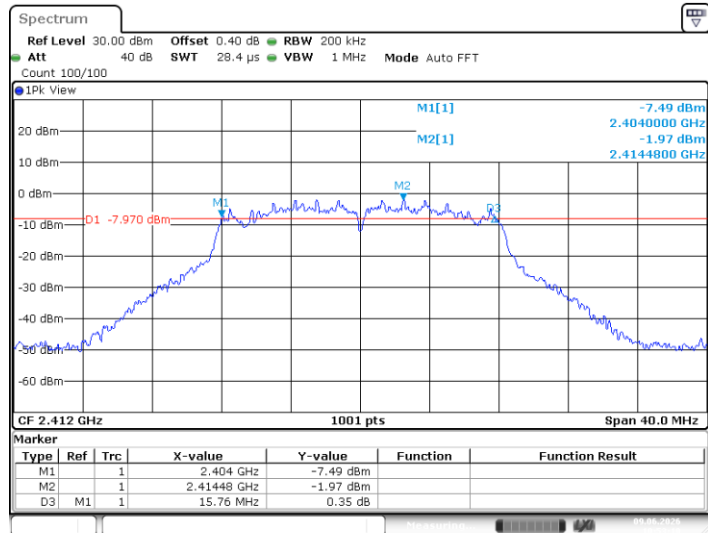


11B_Ant1_2462



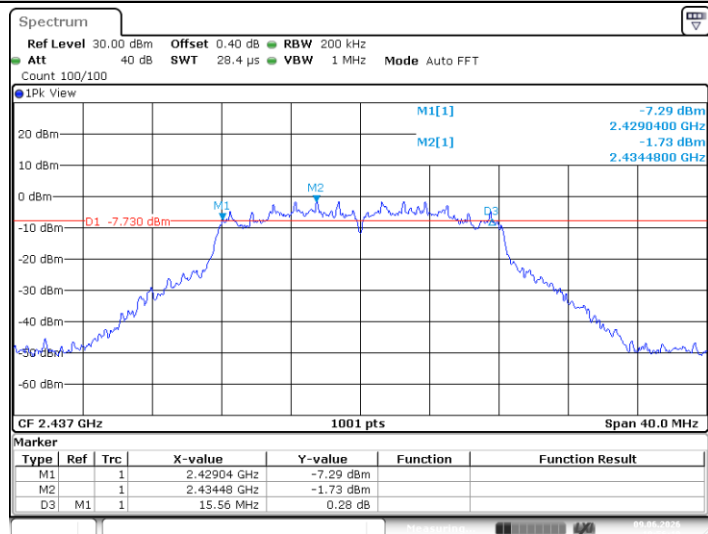
Date: 9.JUN.2026 10:46:27

11G_Ant1_2412



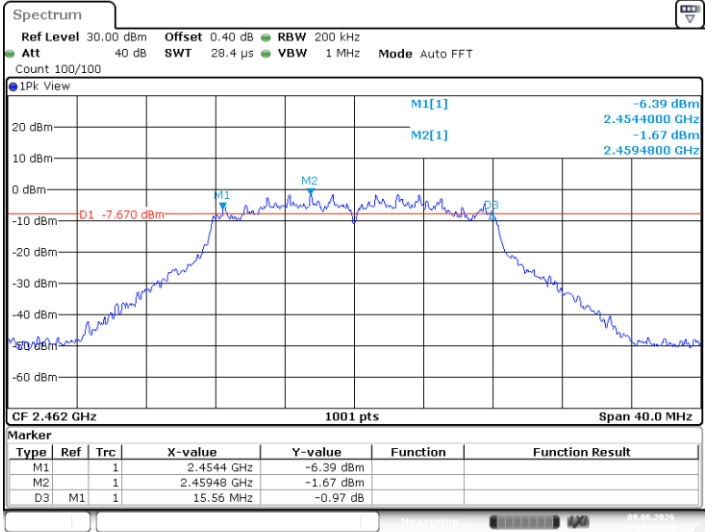
Date: 9.JUN.2026 10:53:09

11G_Ant1_2437



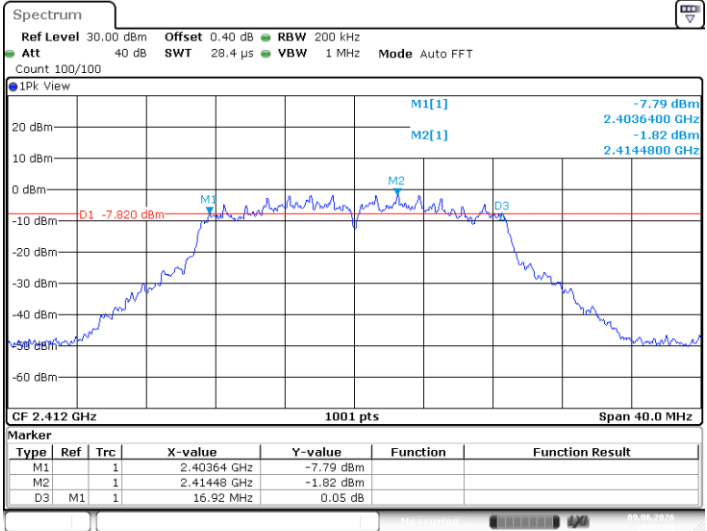
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11G_Ant1_2462



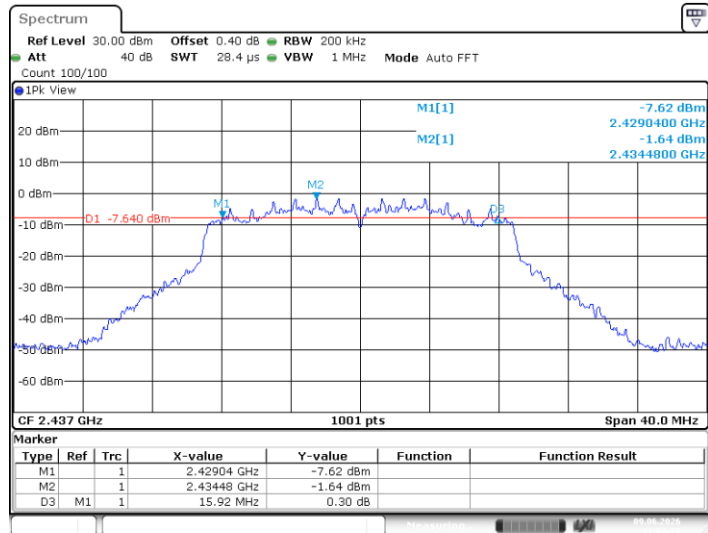
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11N20SISO_Ant1_2412



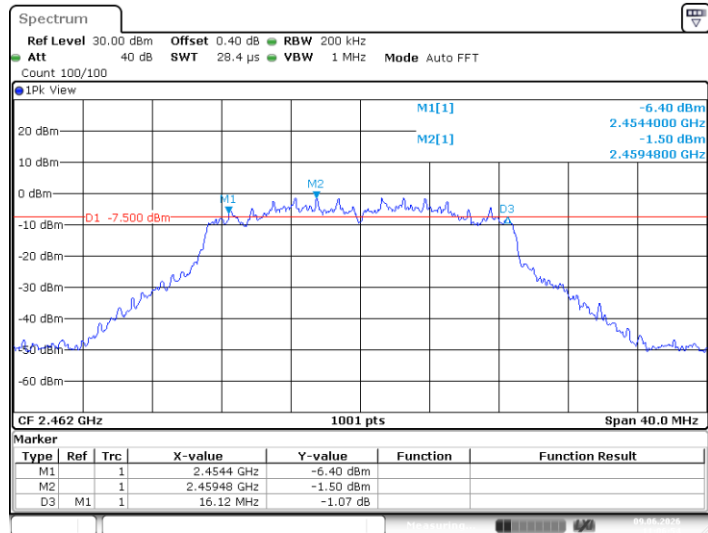
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11N20SISO_Ant1_2437



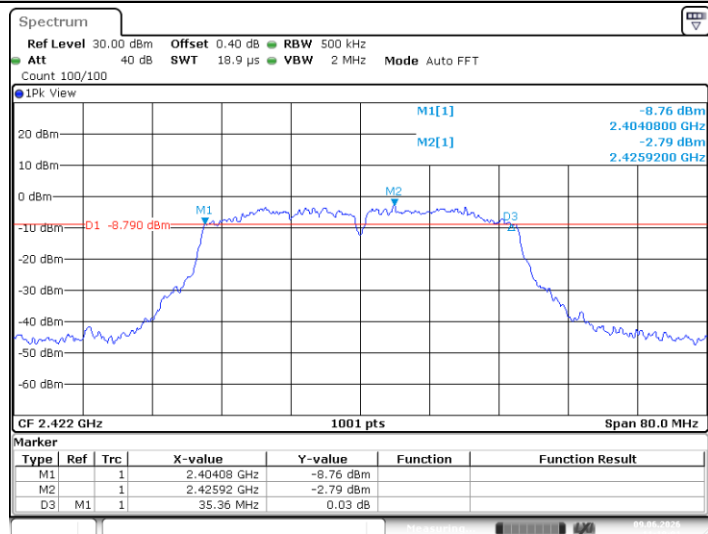
Date: 9.JUN.2026 11:05:00

11N20SISO_Ant1_2462



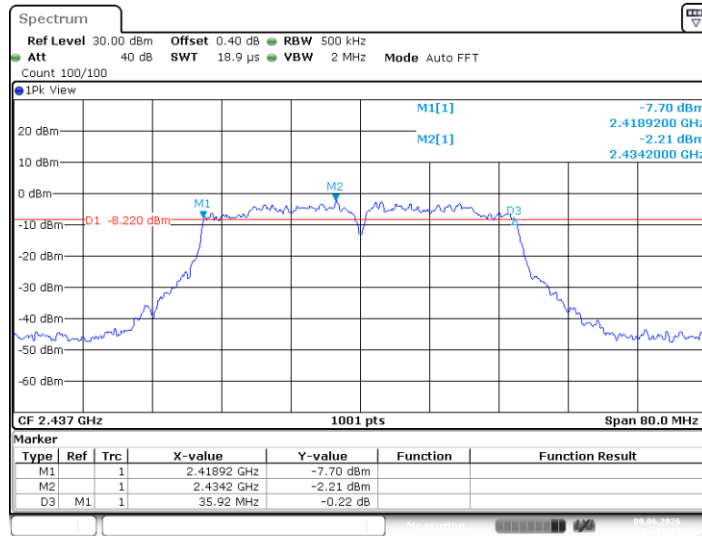
Date: 9.JUN.2026 11:06:54

11N40SISO_Ant1_2422



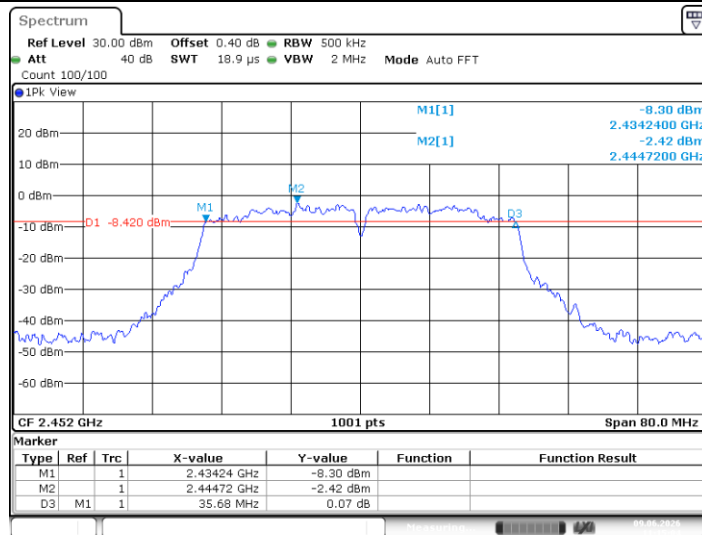
Date: 9.JUN.2026 11:10:00

11N40SISO_Ant1_2437



Date: 9.JUN.2026 11:13:10

11N40SISO_Ant1_2452



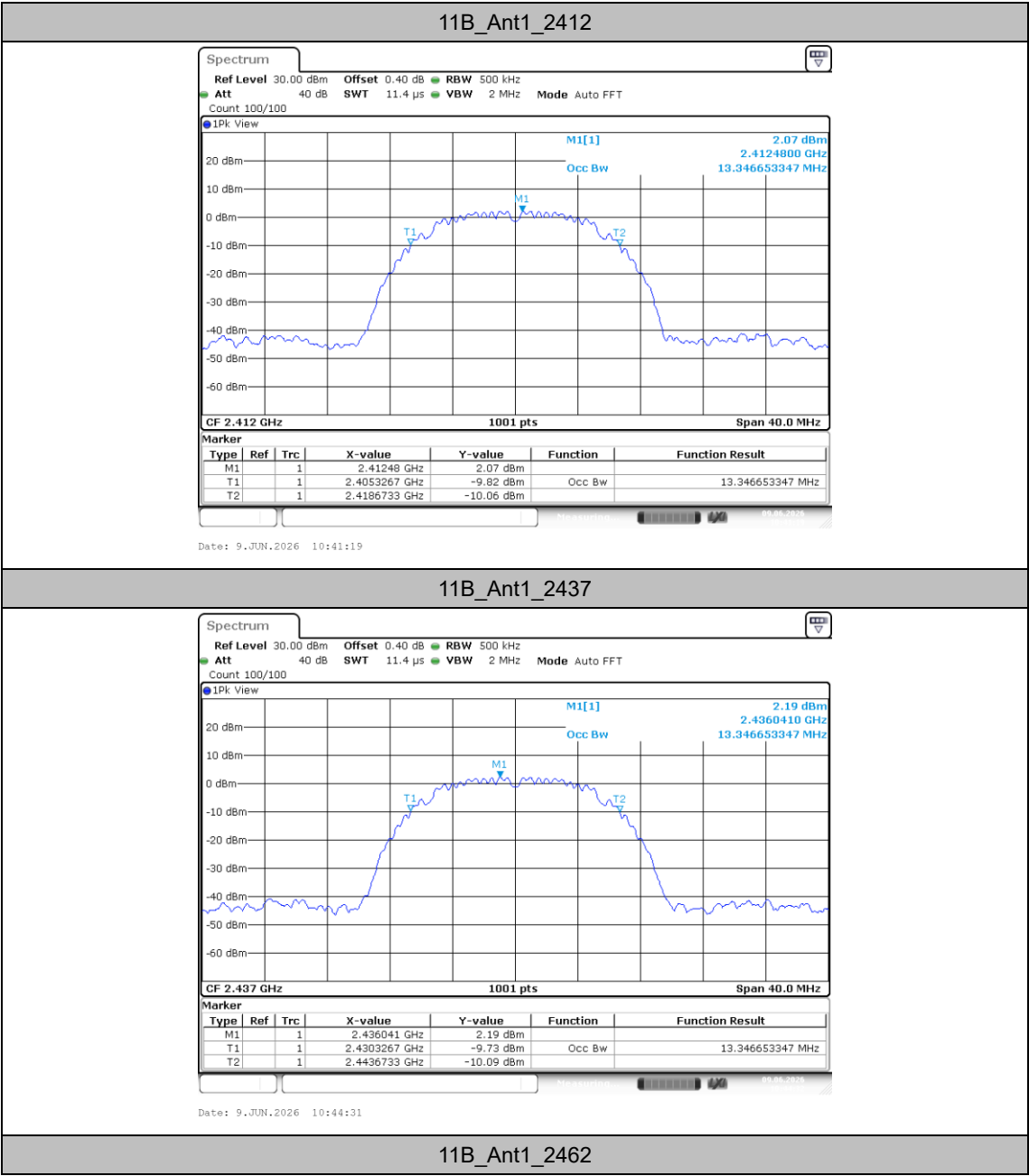
Date: 9.JUN.2026 11:15:04

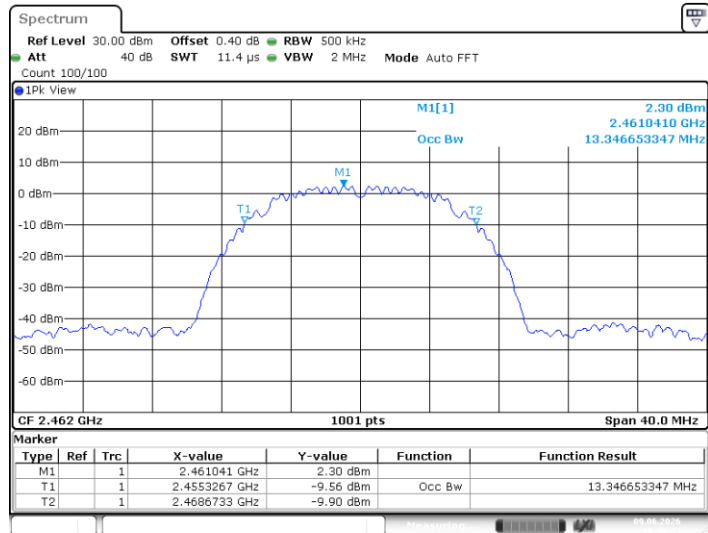
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.347	2405.3267	2418.6733	---	---
		2437	13.347	2430.3267	2443.6733	---	---
		2462	13.347	2455.3267	2468.6733	---	---
11G	Ant1	2412	16.783	2403.6883	2420.4715	---	---
		2437	16.703	2428.6484	2445.3516	---	---
		2462	16.823	2453.5684	2470.3916	---	---
11N20SISO	Ant1	2412	17.902	2403.0490	2420.9510	---	---
		2437	17.822	2428.0490	2445.8711	---	---
		2462	17.782	2453.0889	2470.8711	---	---
11N40SISO	Ant1	2422	36.044	2404.0180	2440.0619	---	---
		2437	36.124	2418.9381	2455.0619	---	---
		2452	36.124	2434.0180	2470.1419	---	---

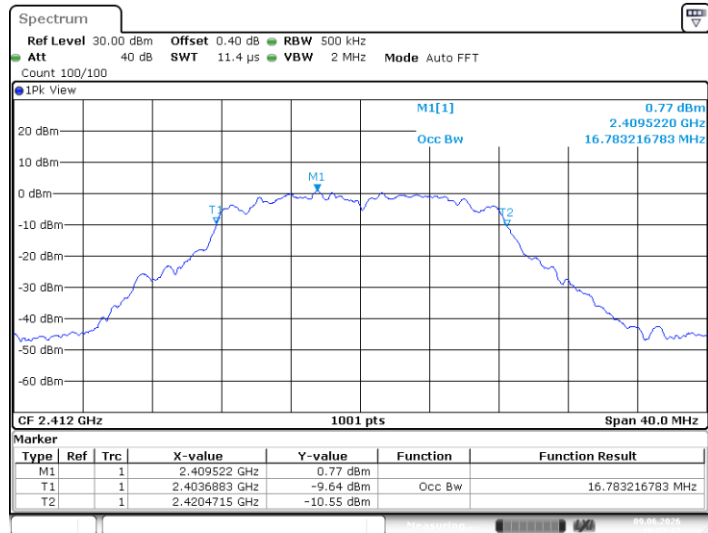
Test Graphs





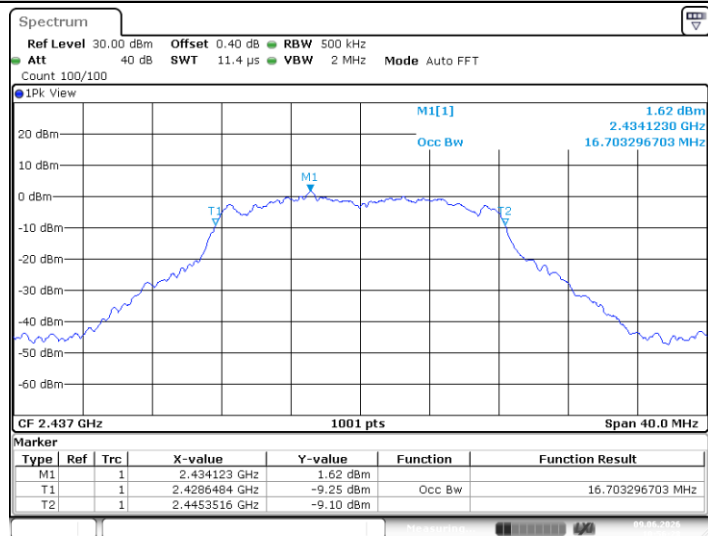
Date: 9.JUN.2026 10:46:33

11G_Ant1_2412



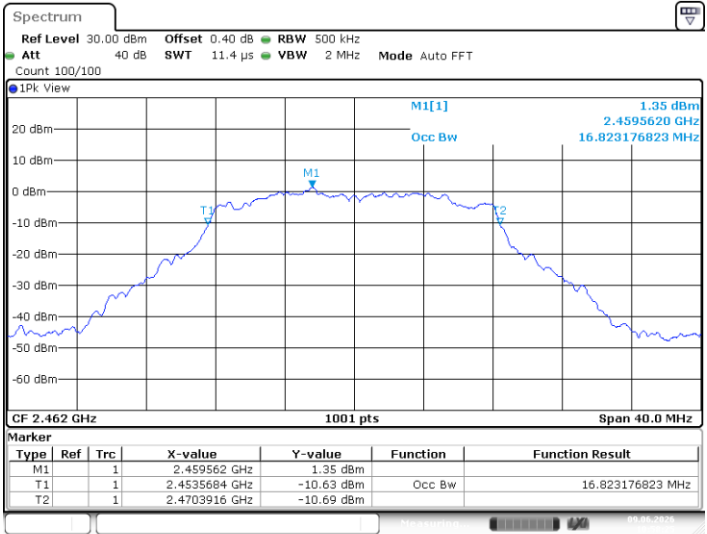
Date: 9.JUN.2026 10:53:16

11G_Ant1_2437

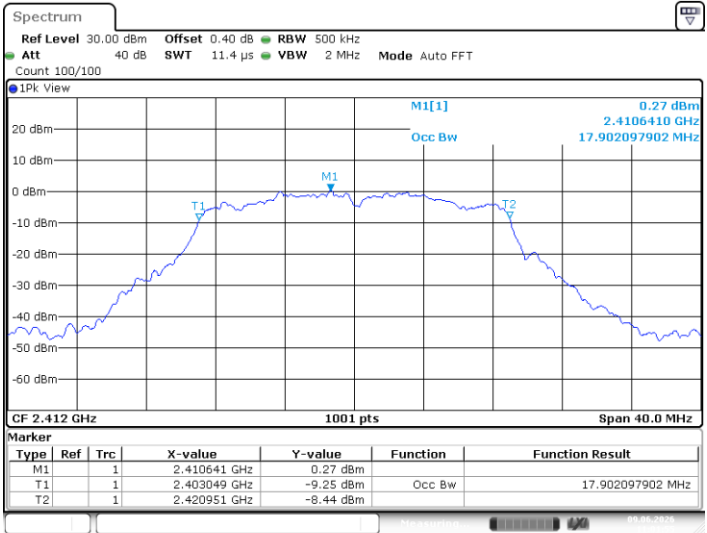


Date: 9.JUN.2026 10:56:27

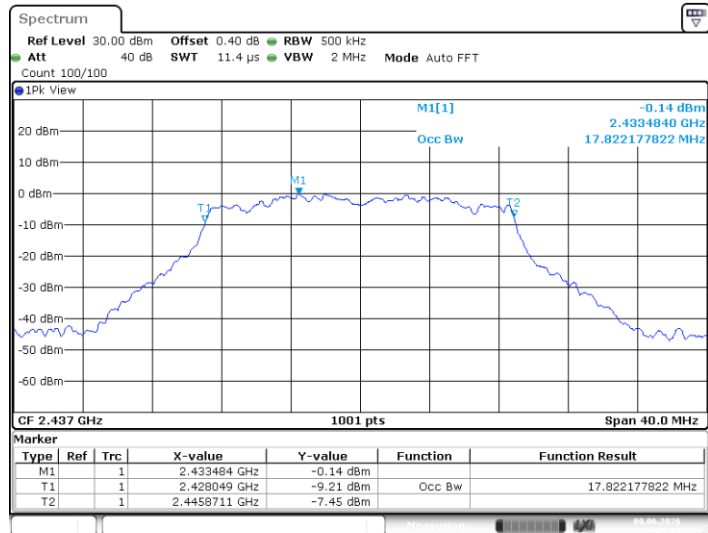
11G_Ant1_2462



11N20SISO_Ant1_2412

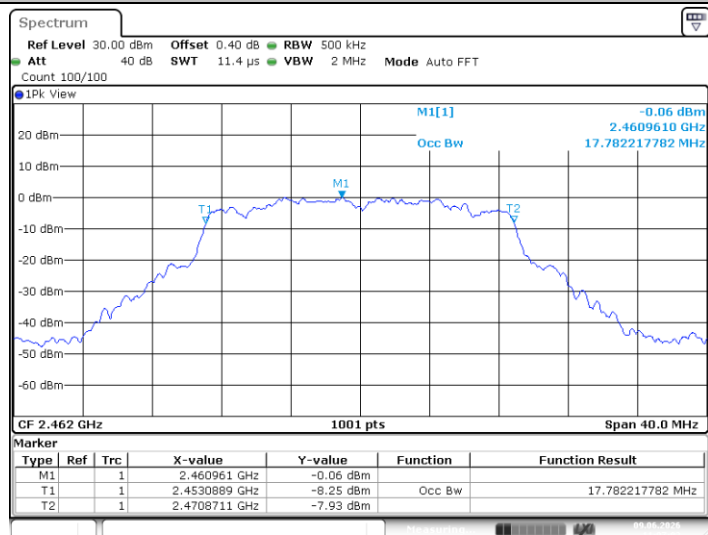


11N20SISO_Ant1_2437



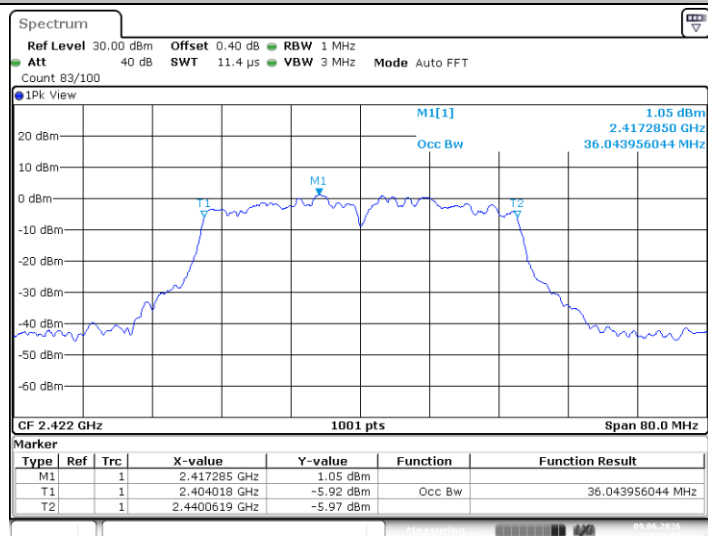
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11N20SISO_Ant1_2462



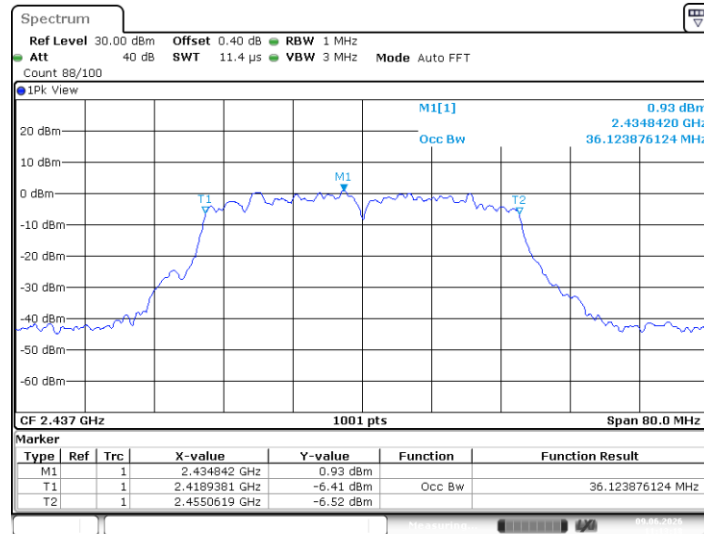
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11N40SISO_Ant1_2422



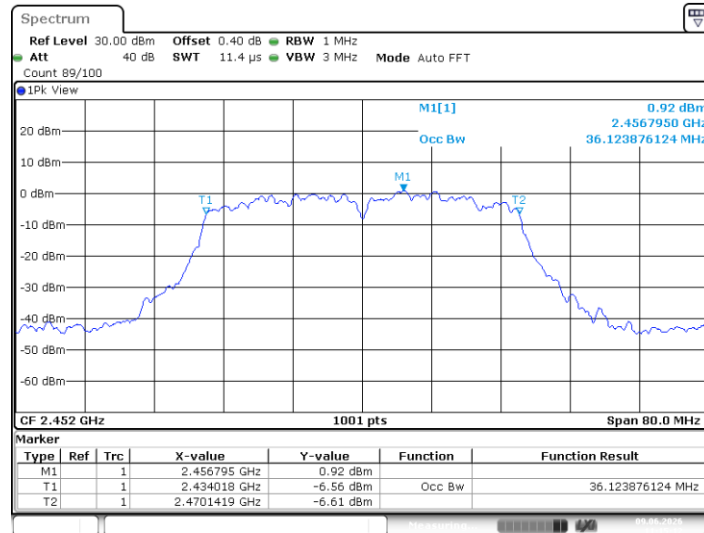
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11N40SISO_Ant1_2437



Date: 9.JUN.2026 11:13:18

11N40SISO_Ant1_2452



Date: 9.JUN.2026 11:15:11

Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[M Hz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.77	≤30.00	PASS
		2437	13.86	≤30.00	PASS
		2462	14.00	≤30.00	PASS
11G	Ant1	2412	13.84	≤30.00	PASS
		2437	13.90	≤30.00	PASS
		2462	14.21	≤30.00	PASS
11N20SISO	Ant1	2412	13.77	≤30.00	PASS
		2437	13.69	≤30.00	PASS
		2462	13.97	≤30.00	PASS
11N40SISO	Ant1	2422	14.05	≤30.00	PASS
		2437	14.33	≤30.00	PASS
		2452	14.22	≤30.00	PASS

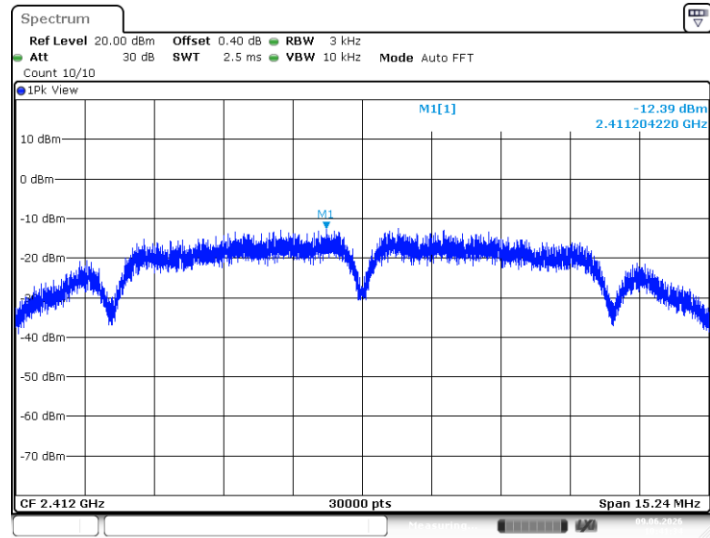
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.39	≤8.00	PASS
		2437	-12.26	≤8.00	PASS
		2462	-12.01	≤8.00	PASS
11G	Ant1	2412	-17.43	≤8.00	PASS
		2437	-17.19	≤8.00	PASS
		2462	-17.41	≤8.00	PASS
11N20SISO	Ant1	2412	-16.70	≤8.00	PASS
		2437	-17.16	≤8.00	PASS
		2462	-16.86	≤8.00	PASS
11N40SISO	Ant1	2422	-20.76	≤8.00	PASS
		2437	-19.86	≤8.00	PASS
		2452	-19.99	≤8.00	PASS

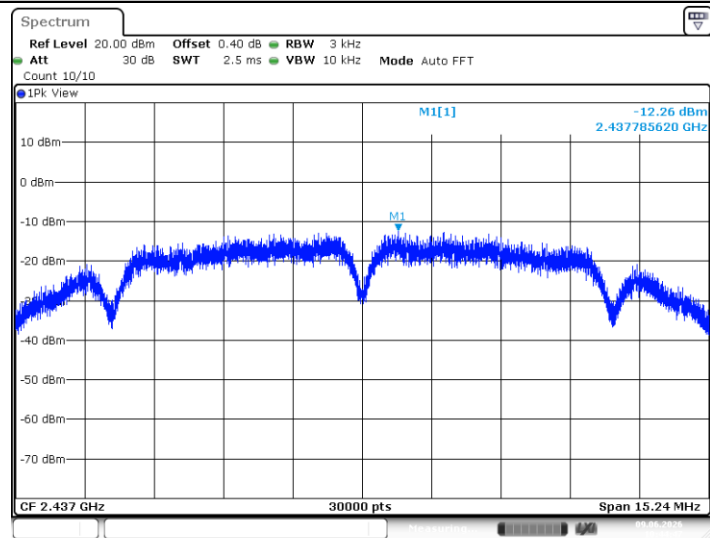
Test Graphs

11B_Ant1_2412



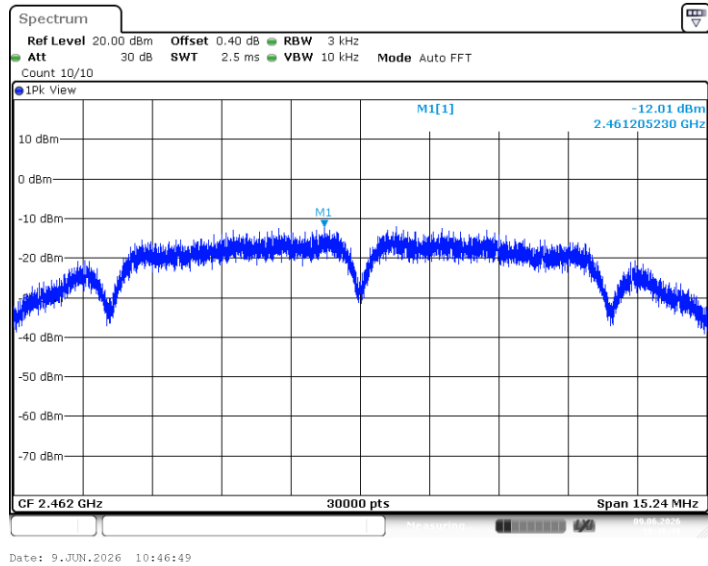
Date: 9.JUN.2026 10:41:34

11B_Ant1_2437

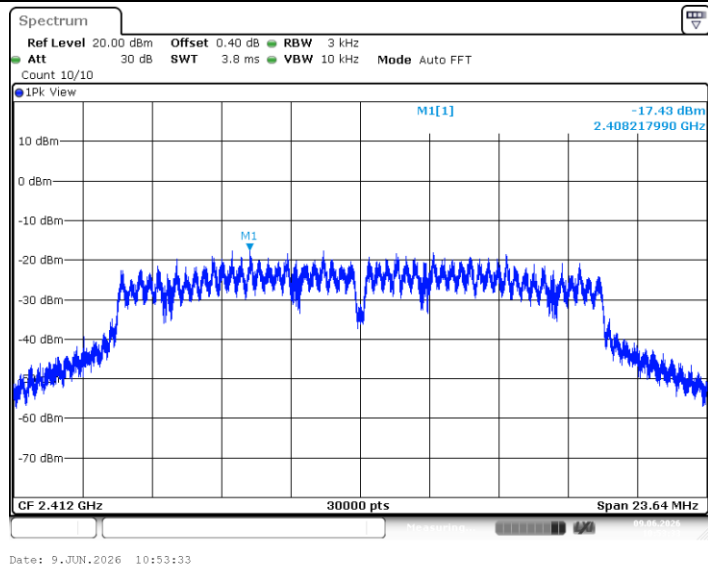


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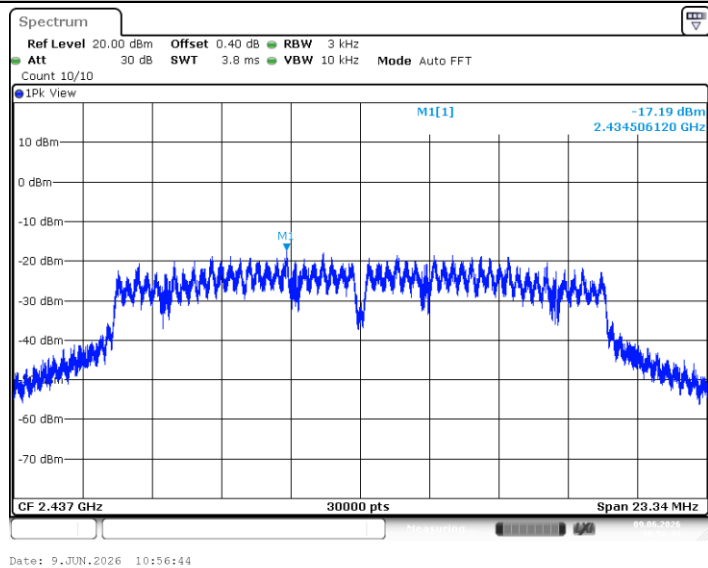
11B_Ant1_2462



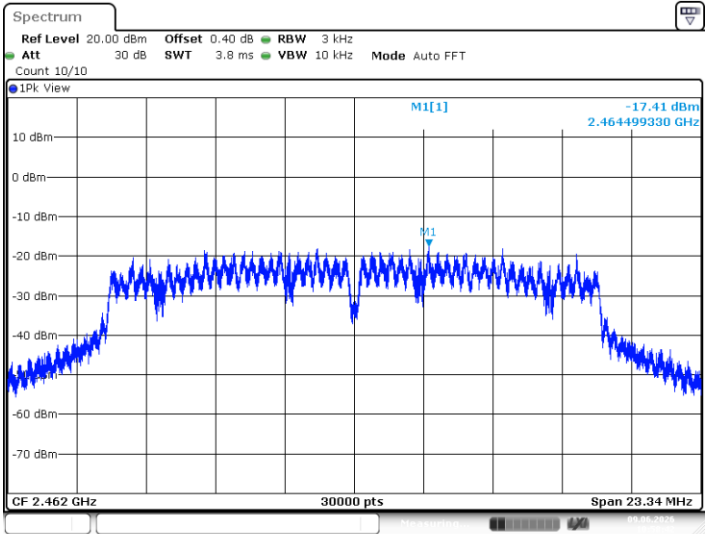
11G_Ant1_2412



11G_Ant1_2437

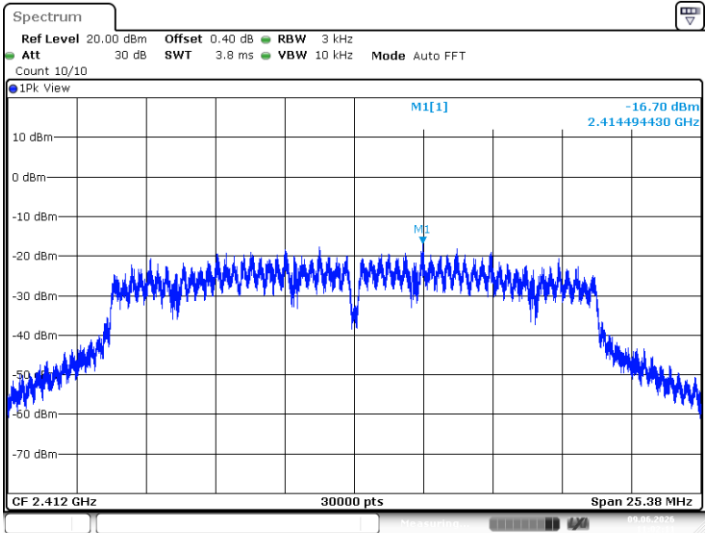


11G_Ant1_2462



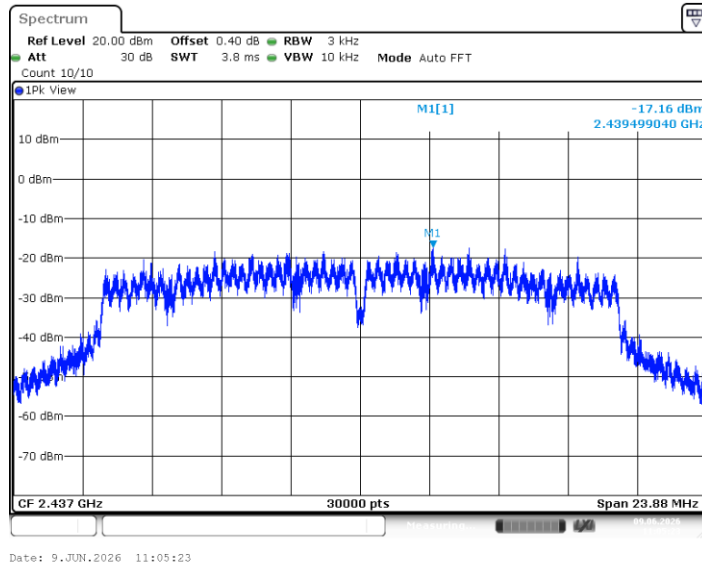
Date: 9.JUN.2026 10:58:42

11N20SISO_Ant1_2412

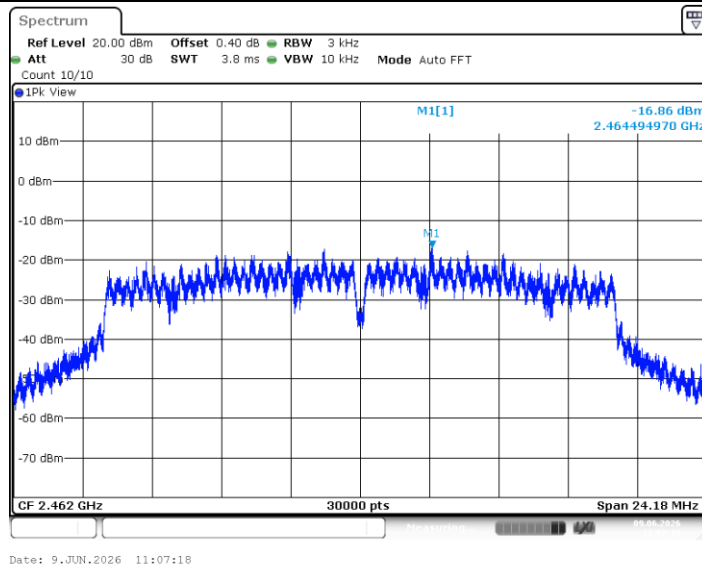


Date: 9.JUN.2026 11:02:12

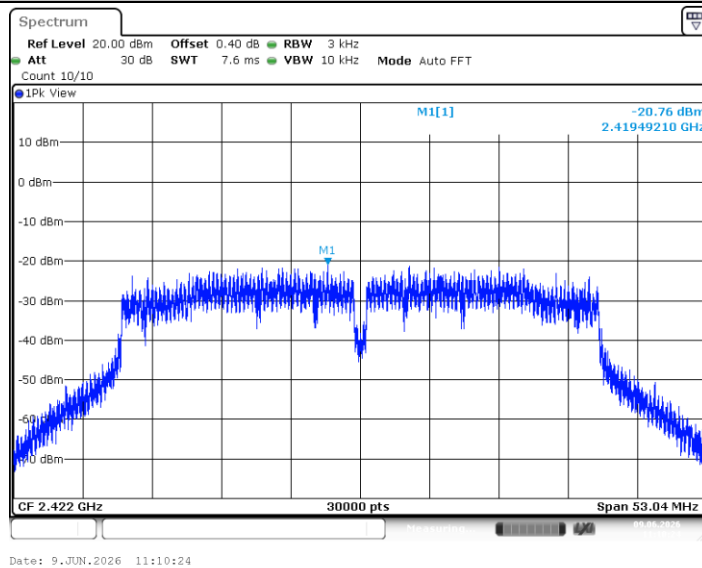
11N20SISO_Ant1_2437



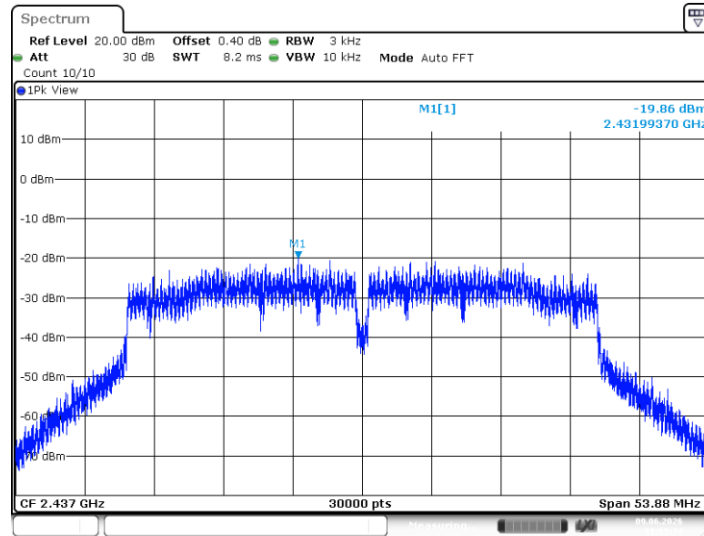
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422

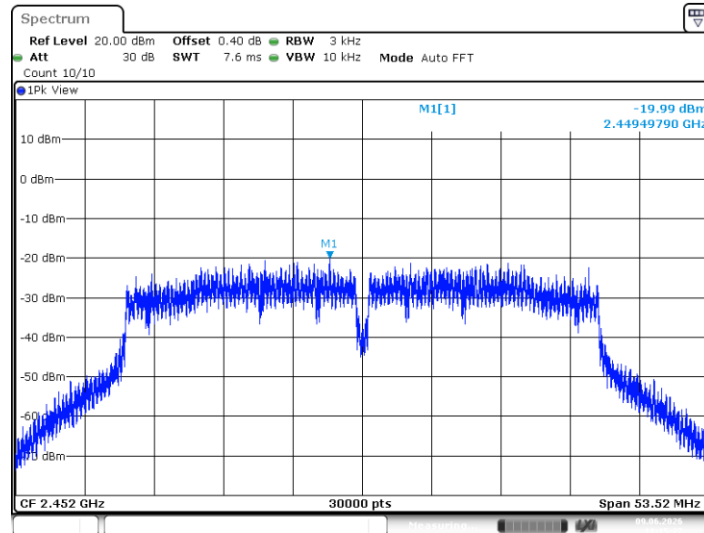


11N40SISO_Ant1_2437



Date: 9.JUN.2026 11:13:34

11N40SISO_Ant1_2452



Date: 9.JUN.2026 11:15:27

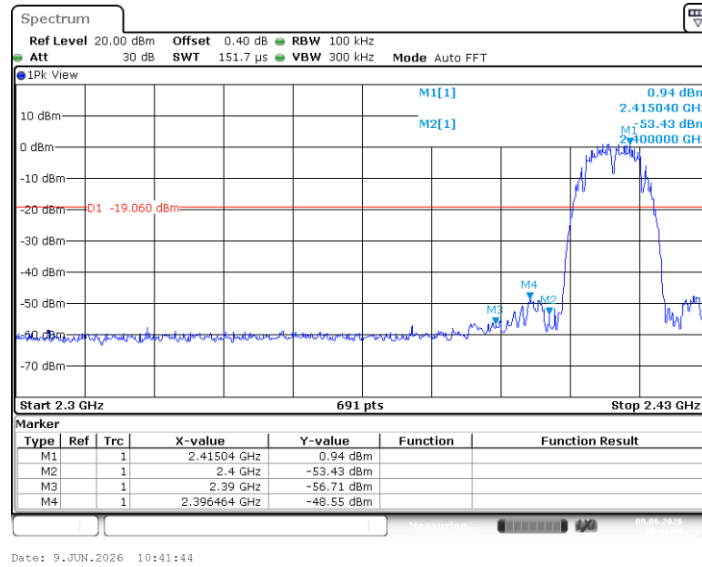
Appendix E: Band edge measurements

Test Result

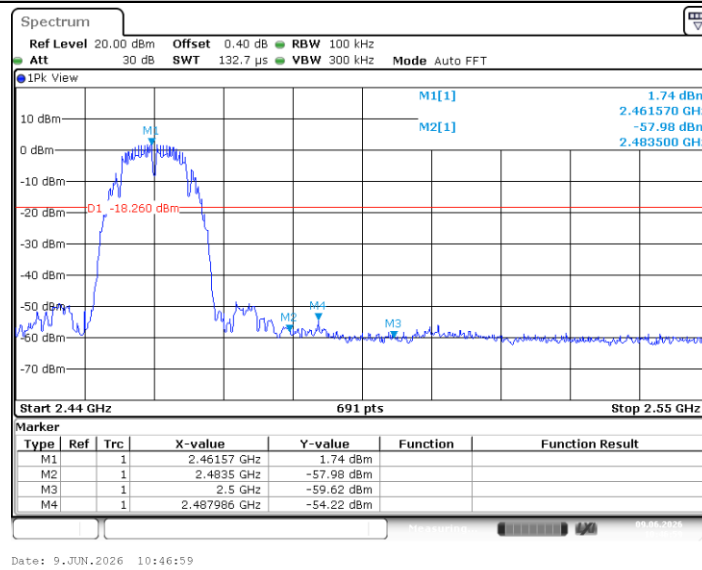
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.94	-48.55	≤-19.06	PASS
		High	2462	1.74	-54.22	≤-18.26	PASS
11G	Ant1	Low	2412	-3.06	-35.7	≤-23.06	PASS
		High	2462	-2.46	-57.35	≤-22.46	PASS
11N20SISO	Ant1	Low	2412	-2.83	-34.81	≤-22.83	PASS
		High	2462	-2.59	-57.4	≤-22.59	PASS
11N40SISO	Ant1	Low	2422	-5.87	-34.67	≤-25.87	PASS
		High	2452	-5.69	-57.89	≤-25.69	PASS

Test Graphs

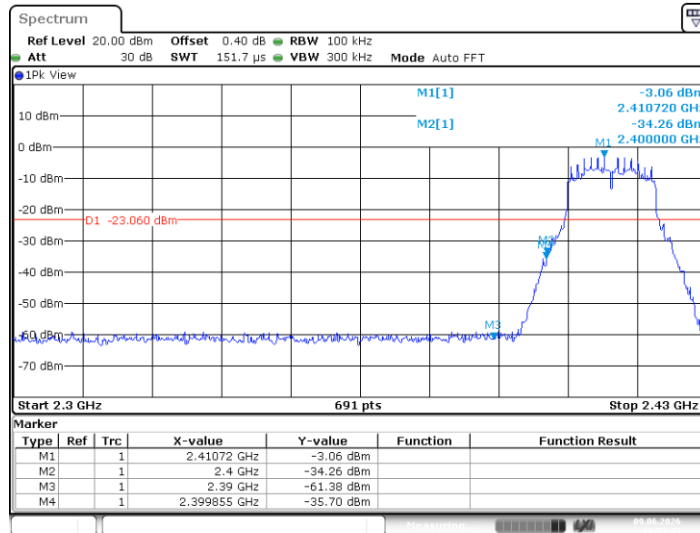
11B_Ant1_Low_2412



11B_Ant1_High_2462

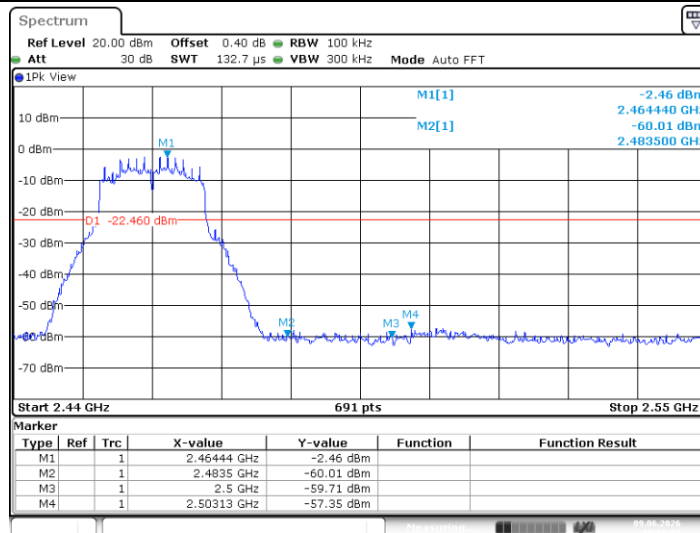


11G_Ant1_Low_2412



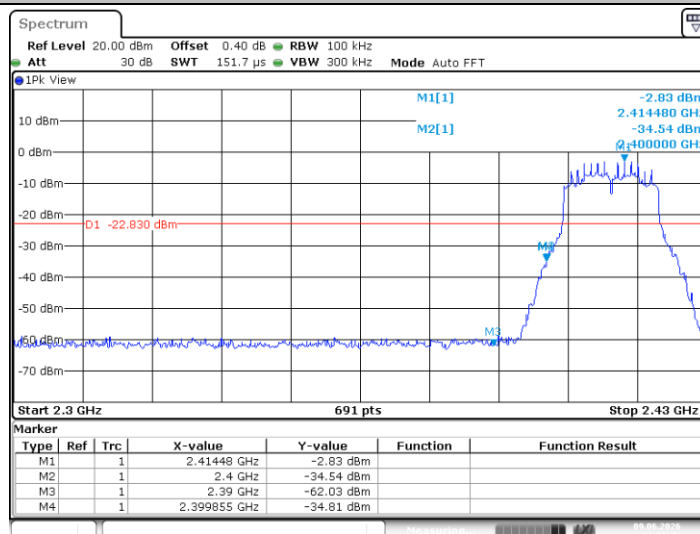
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11G_Ant1_High_2462



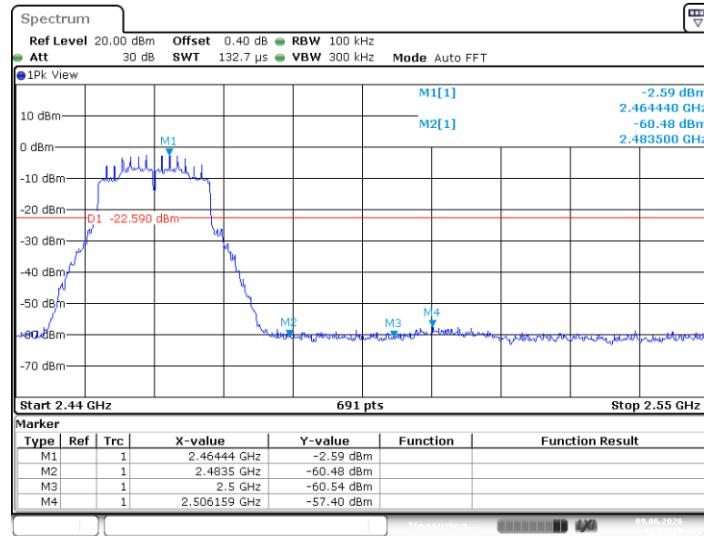
Date: 9.JUN.2026 10:58:52

11N20SISO_Ant1_Low_2412



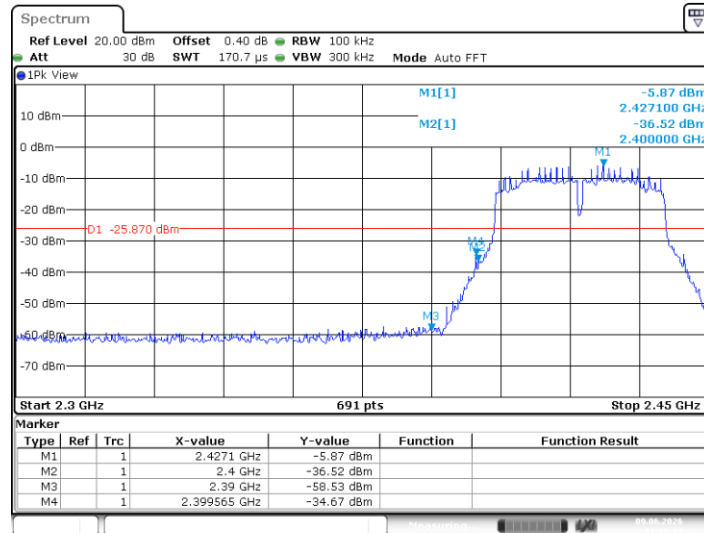
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11N20SISO_Ant1_High_2462



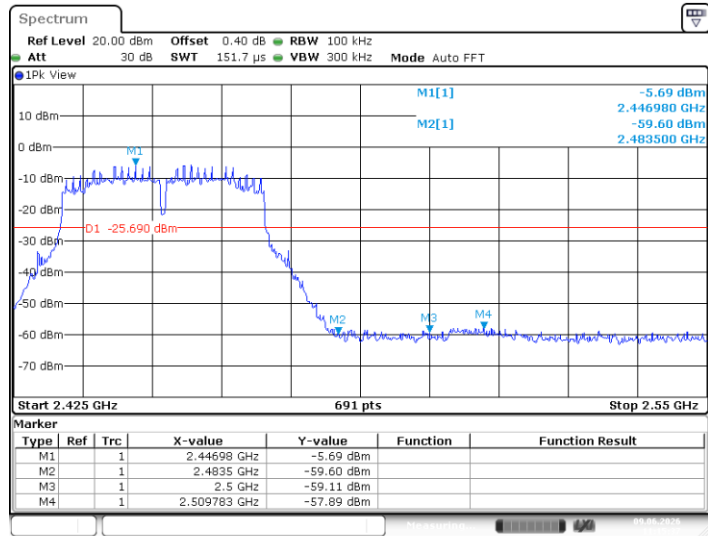
Date: 9.JUN.2026 11:07:28

11N40SISO_Ant1_Low_2422



Date: 9.JUN.2026 11:10:35

11N40SISO_Ant1_High_2452



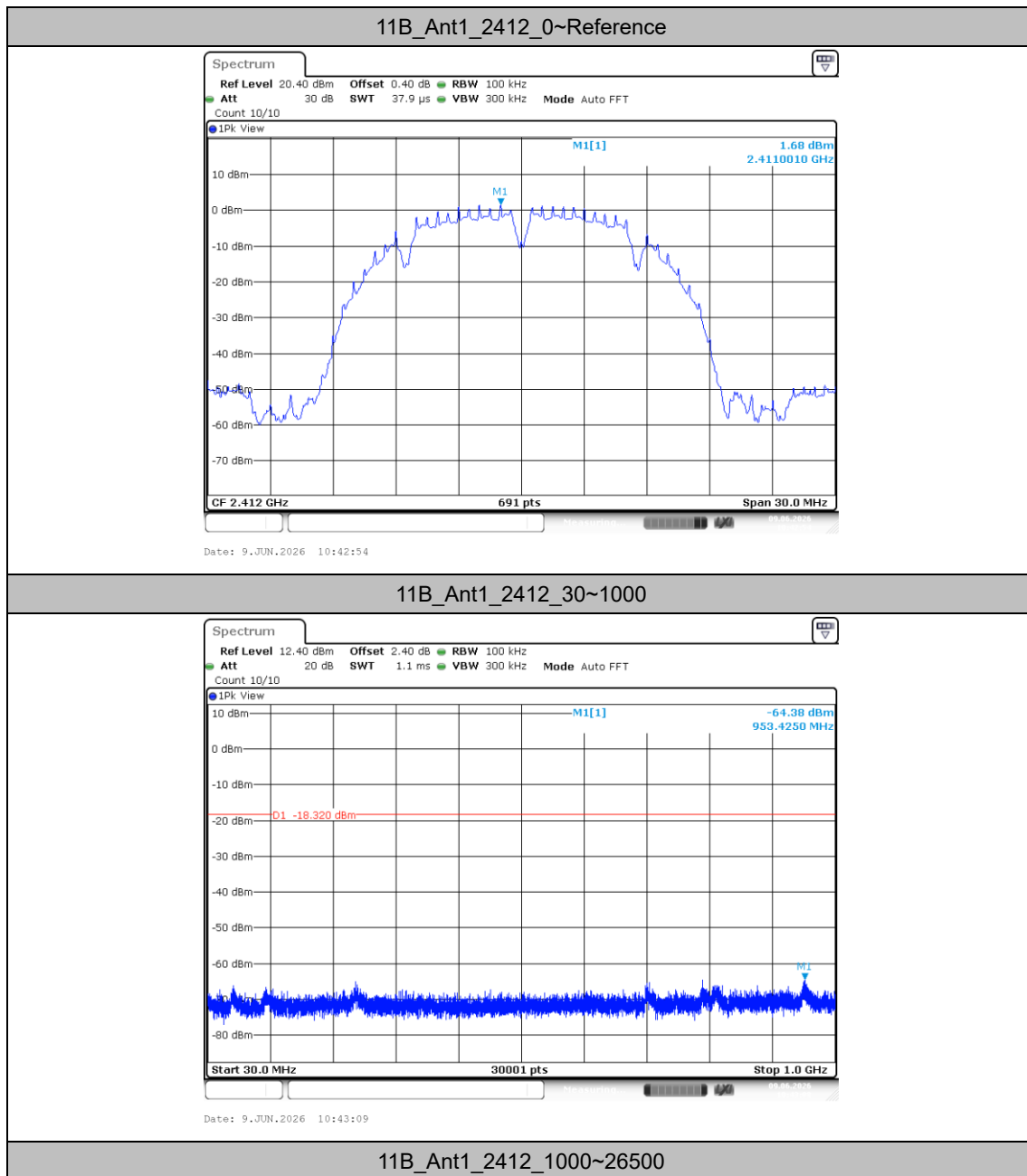
Date: 9.JUN.2026 11:15:37

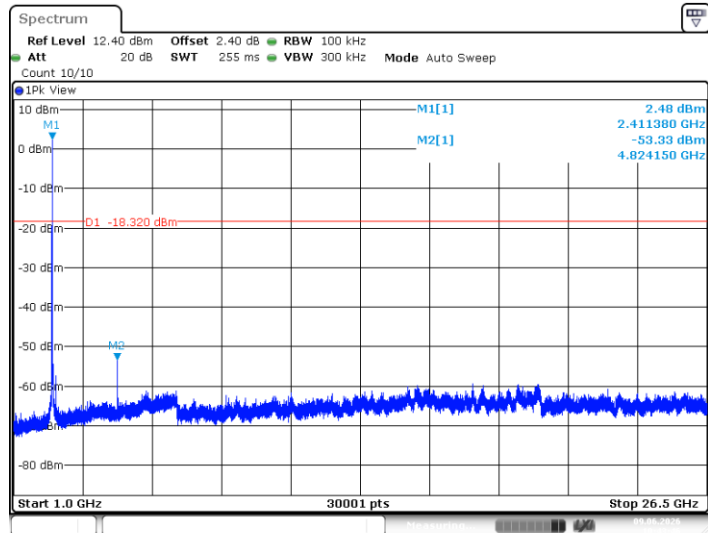
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.68	1.68	---	PASS
			30~1000	1.68	-64.38	≤-18.32	PASS
			1000~26500	1.68	-53.33	≤-18.32	PASS
		2437	Reference	1.61	1.61	---	PASS
			30~1000	1.61	-65.26	≤-18.39	PASS
			1000~26500	1.61	-54.05	≤-18.39	PASS
		2462	Reference	1.84	1.84	---	PASS
			30~1000	1.84	-64.26	≤-18.16	PASS
			1000~26500	1.84	-54.08	≤-18.16	PASS
11G	Ant1	2412	Reference	-2.66	-2.66	---	PASS
			30~1000	-2.66	-64.88	≤-22.66	PASS
			1000~26500	-2.66	-57.38	≤-22.66	PASS
		2437	Reference	-2.54	-2.54	---	PASS
			30~1000	-2.54	-64.78	≤-22.54	PASS
			1000~26500	-2.54	-57.06	≤-22.54	PASS
		2462	Reference	-2.37	-2.37	---	PASS
			30~1000	-2.37	-64.69	≤-22.37	PASS
			1000~26500	-2.37	-56.51	≤-22.37	PASS
11N20SISO	Ant1	2412	Reference	-2.73	-2.73	---	PASS
			30~1000	-2.73	-63.94	≤-22.73	PASS
			1000~26500	-2.73	-56.85	≤-22.73	PASS
		2437	Reference	-2.55	-2.55	---	PASS
			30~1000	-2.55	-63.14	≤-22.55	PASS
			1000~26500	-2.55	-56.99	≤-22.55	PASS
		2462	Reference	-2.34	-2.34	---	PASS
			30~1000	-2.34	-64.63	≤-22.34	PASS
			1000~26500	-2.34	-57.28	≤-22.34	PASS
11N40SISO	Ant1	2422	Reference	-5.80	-5.80	---	PASS
			30~1000	-5.80	-64.7	≤-25.8	PASS
			1000~26500	-5.80	-58.83	≤-25.8	PASS
		2437	Reference	-5.59	-5.59	---	PASS
			30~1000	-5.59	-64.29	≤-25.59	PASS
			1000~26500	-5.59	-59.18	≤-25.59	PASS
		2452	Reference	-5.60	-5.60	---	PASS
			30~1000	-5.60	-64.59	≤-25.6	PASS
			1000~26500	-5.60	-59.23	≤-25.6	PASS

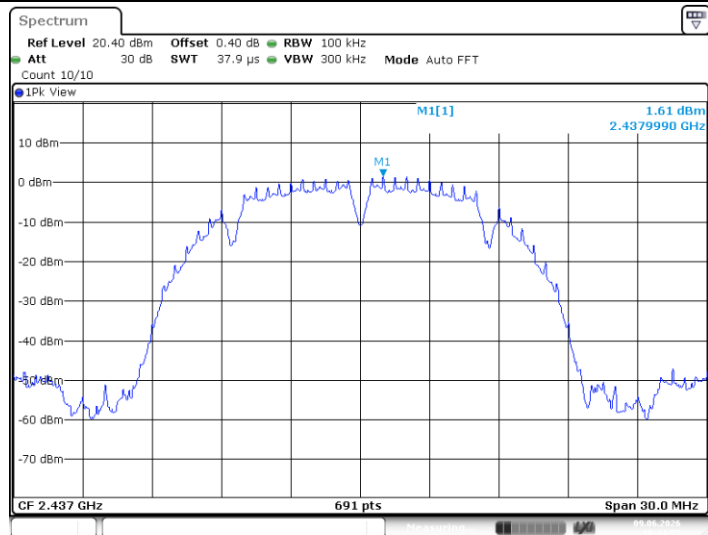
Test Graphs





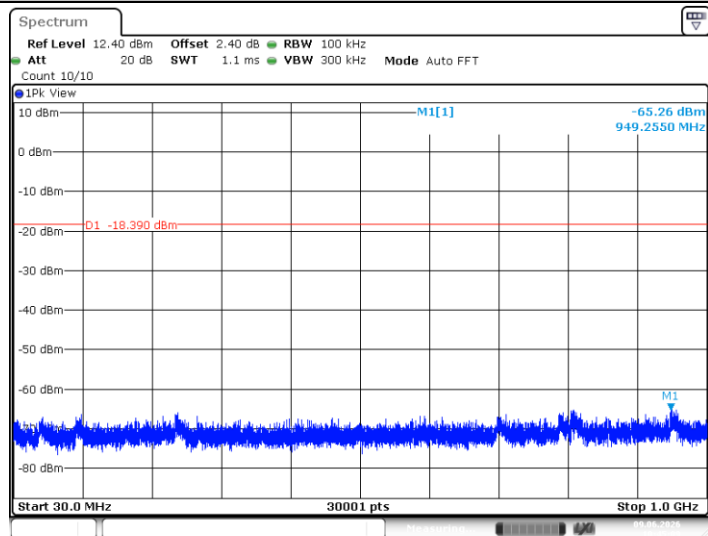
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11B_Ant1_2437_0~Reference



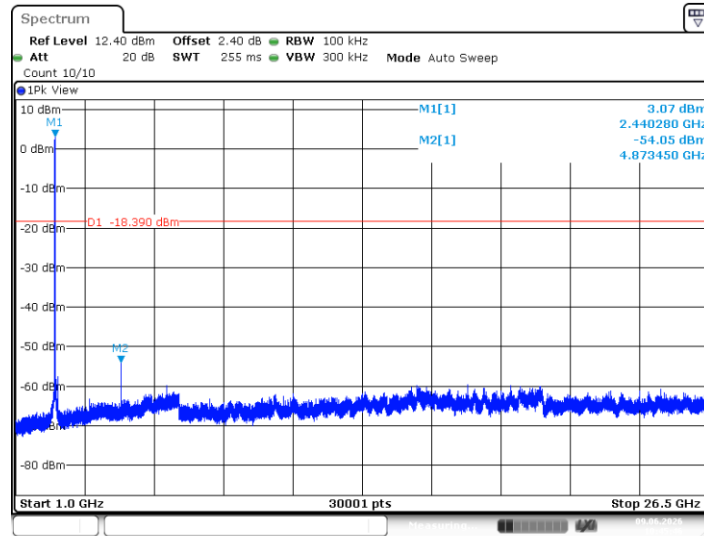
Date: 9.JUN.2026 10:44:55

11B_Ant1_2437_30~1000



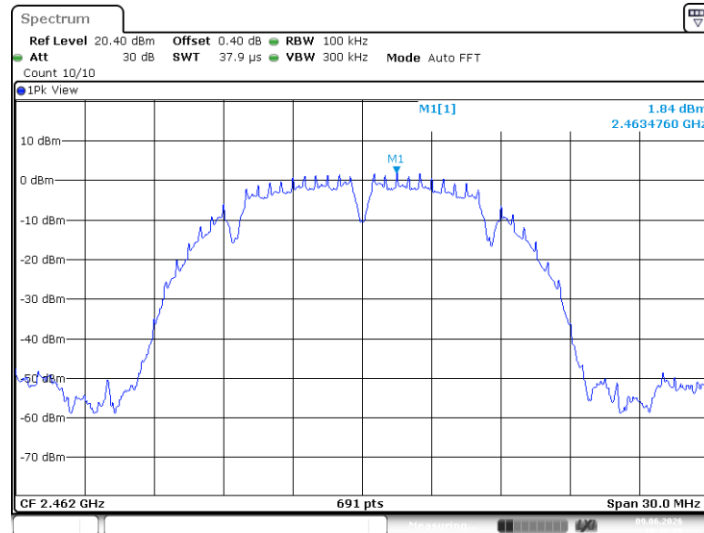
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11B_Ant1_2437_1000~26500



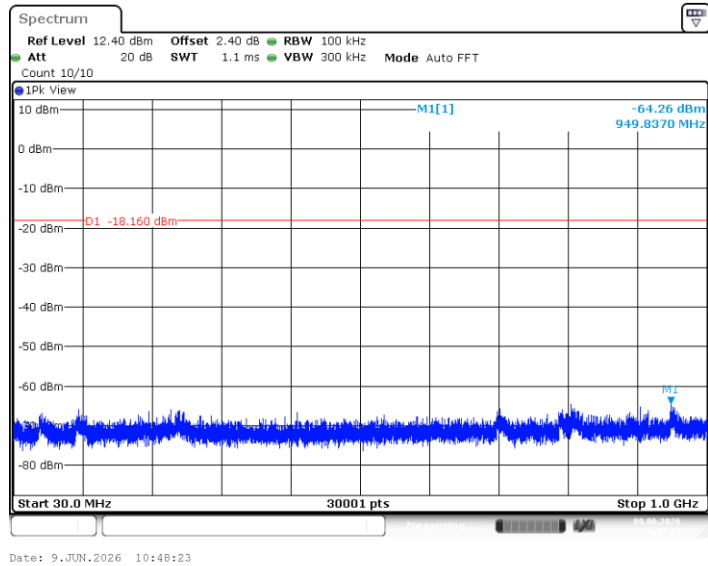
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11B_Ant1_2462_0~Reference

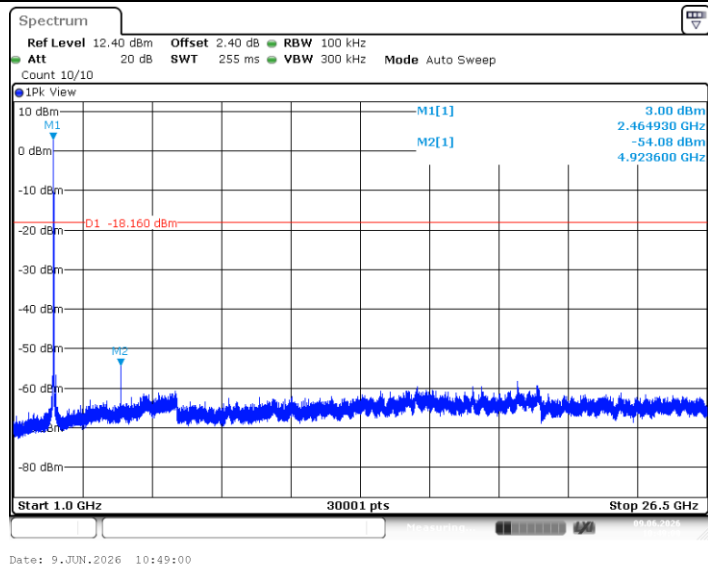


Date: 9.JUN.2026 10:48:09

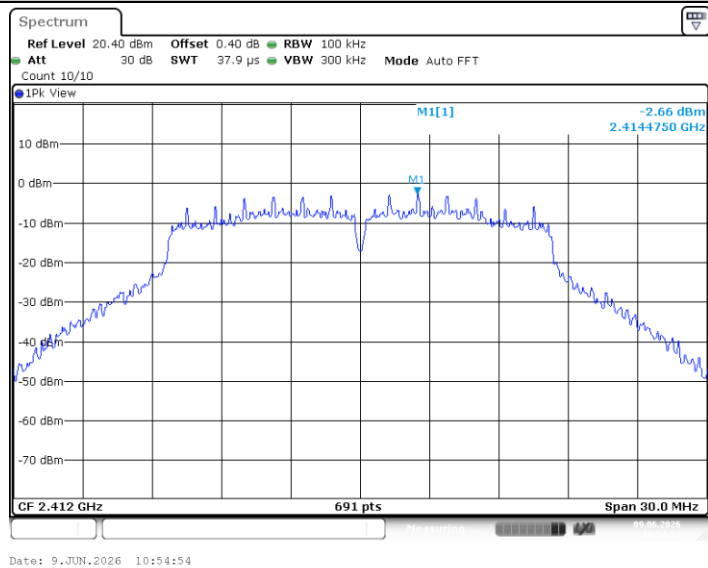
11B_Ant1_2462_30~1000



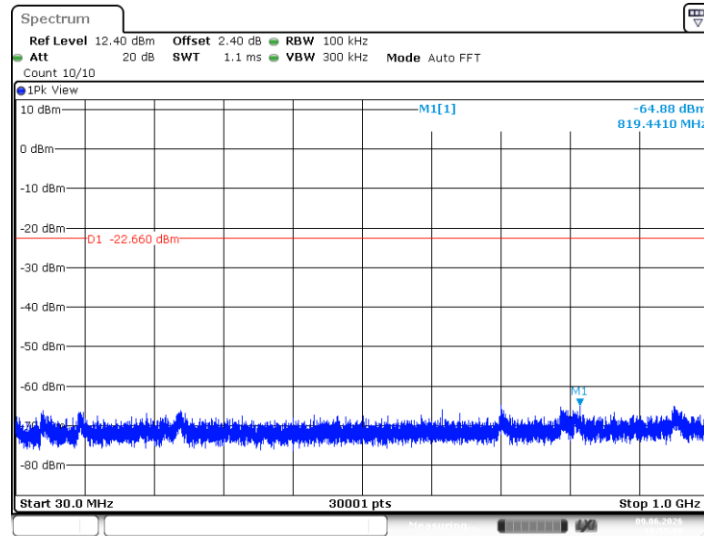
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference

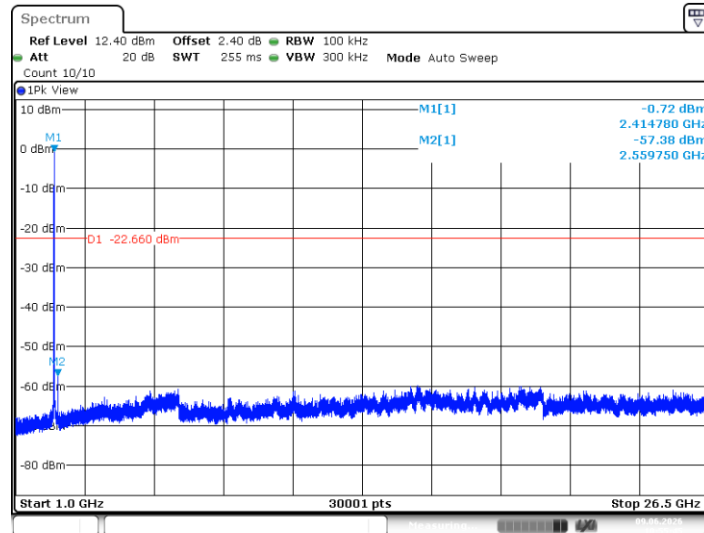


11G_Ant1_2412_30~1000



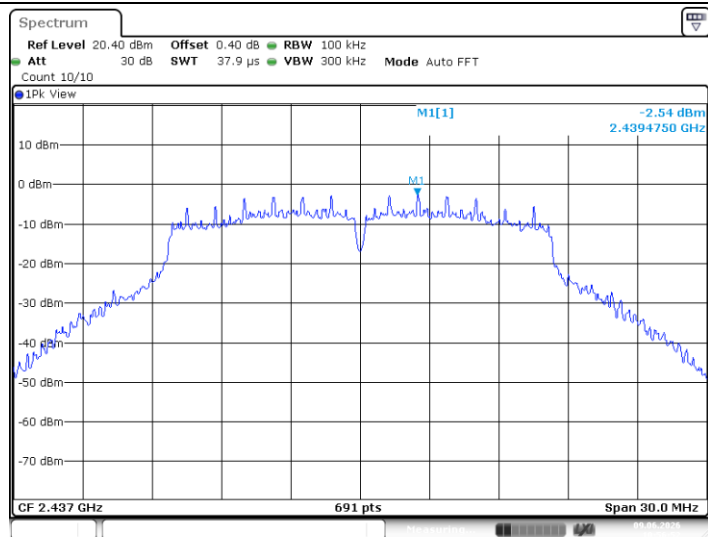
Date: 9.JUN.2026 10:55:08

11G_Ant1_2412_1000~26500



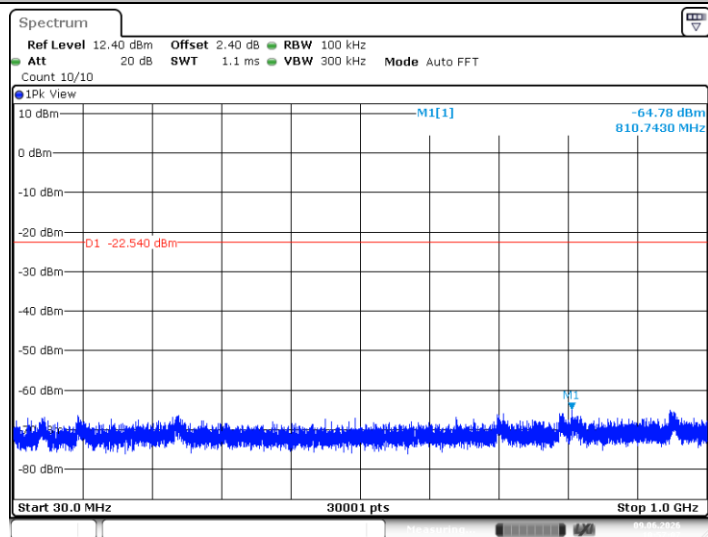
Date: 9.JUN.2026 10:55:46

11G_Ant1_2437_0~Reference



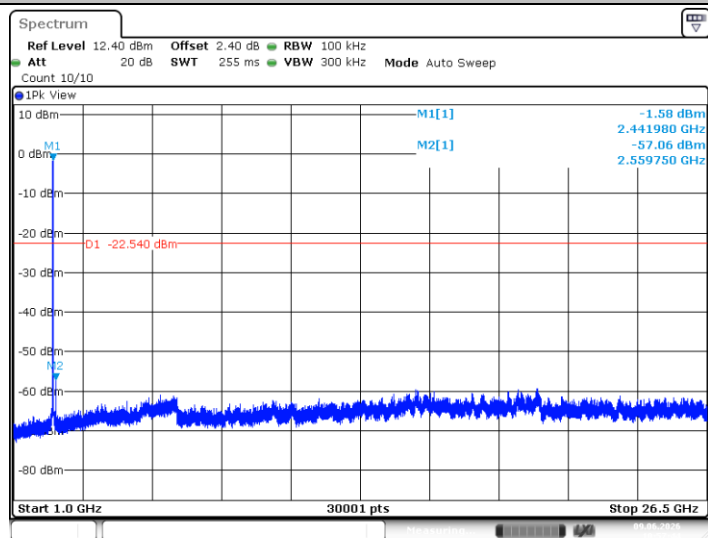
Date: 9.JUN.2026 10:56:53

11G_Ant1_2437_30~1000



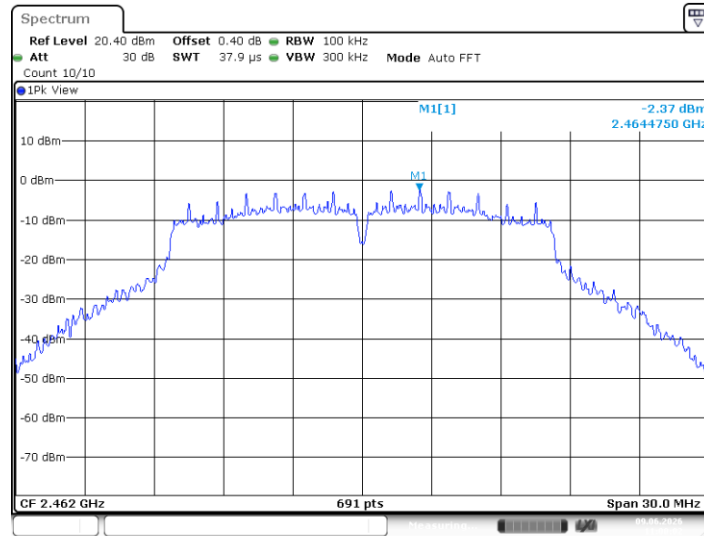
Date: 9.JUN.2026 10:57:07

11G_Ant1_2437_1000~26500



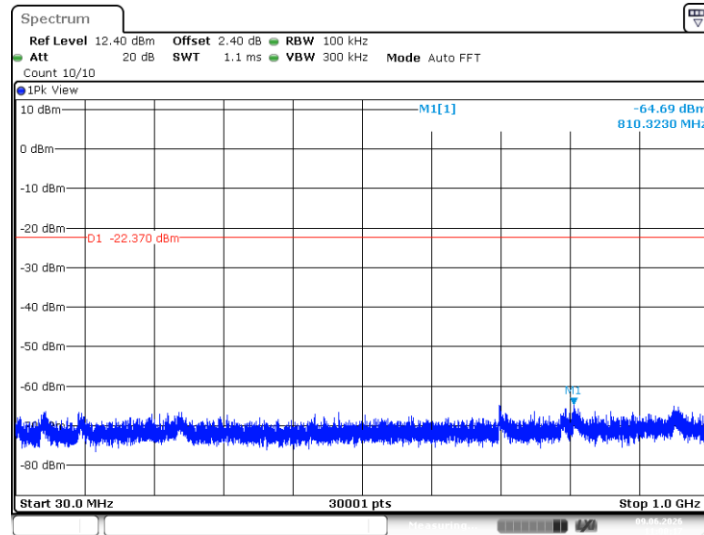
Date: 9.JUN.2026 10:57:45

11G_Ant1_2462_0~Reference



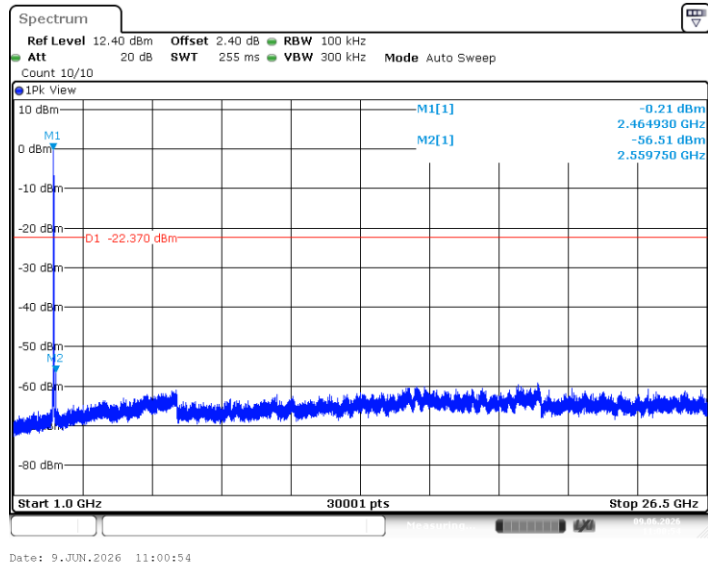
Date: 9.JUN.2026 11:00:02

11G_Ant1_2462_30~1000

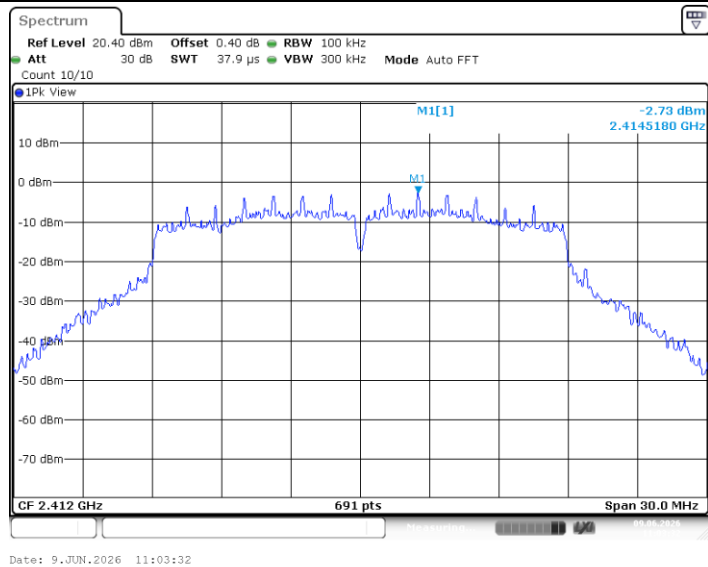


Date: 9.JUN.2026 11:00:17

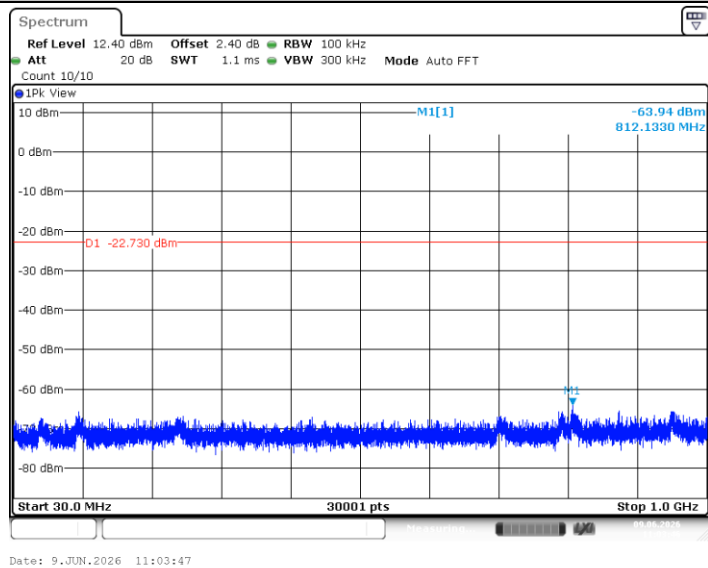
11G_Ant1_2462_1000~26500



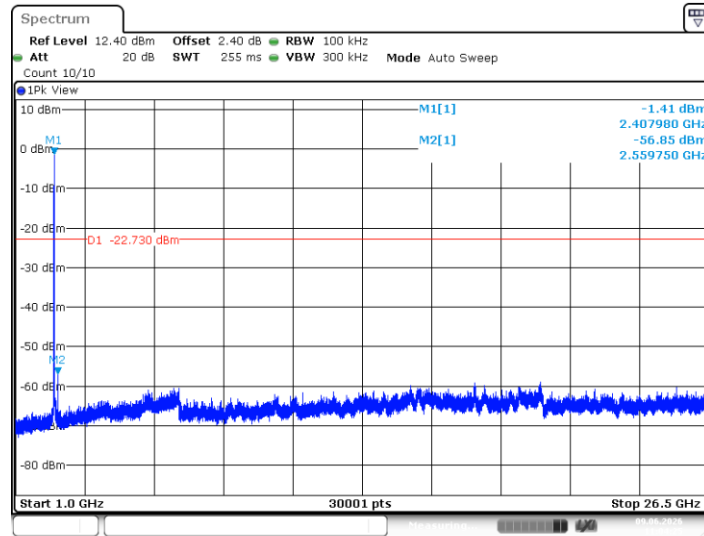
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

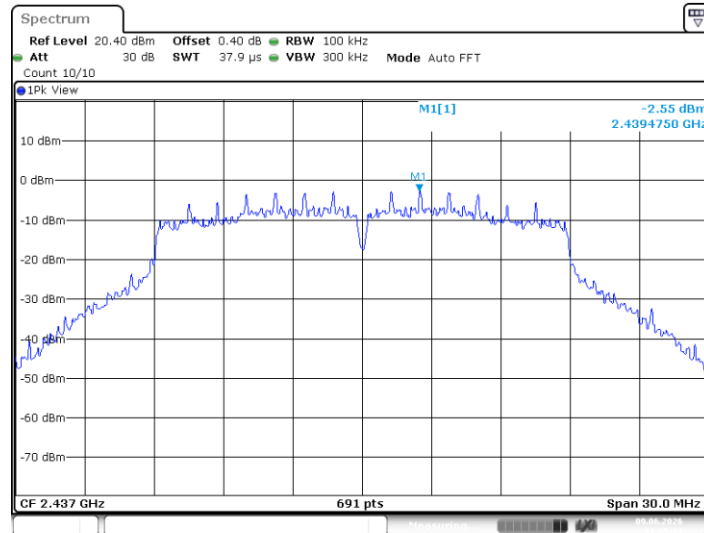


11N20SISO_Ant1_2412_1000~26500



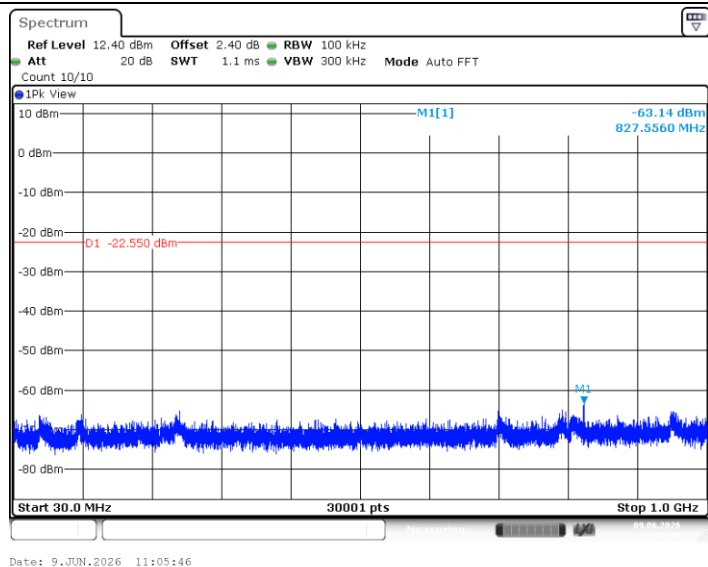
Date: 9.JUN.2026 11:04:24

11N20SISO_Ant1_2437_0~Reference

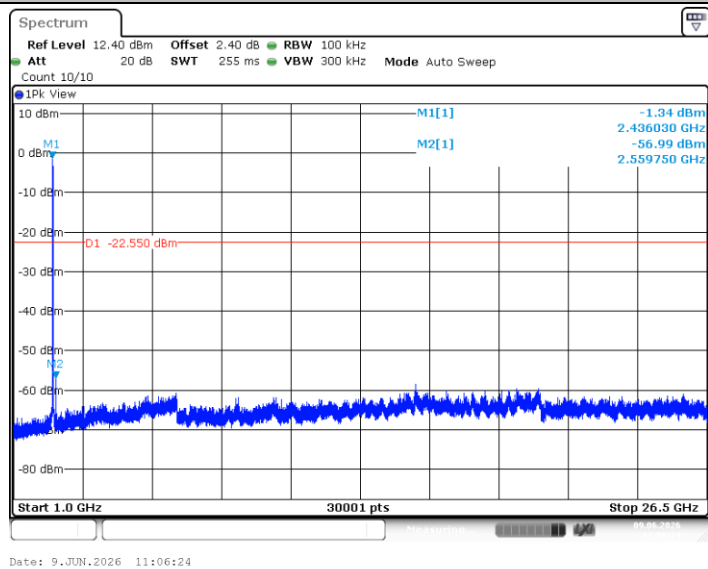


Date: 9.JUN.2026 11:05:32

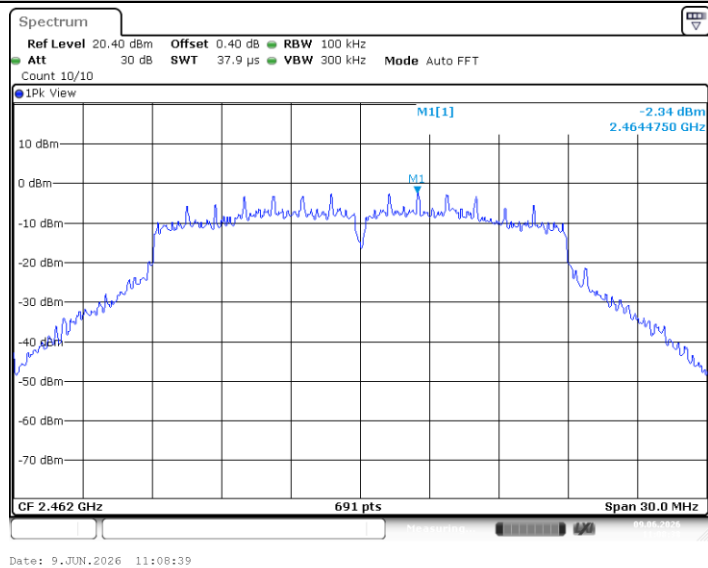
11N20SISO_Ant1_2437_30~1000



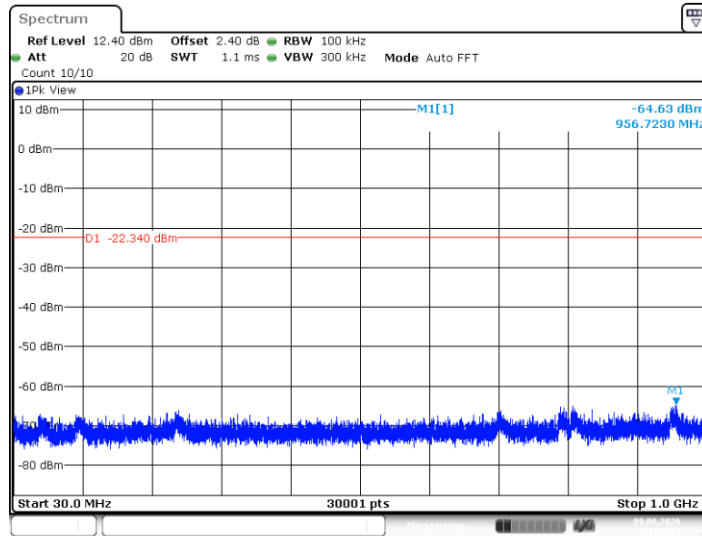
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference

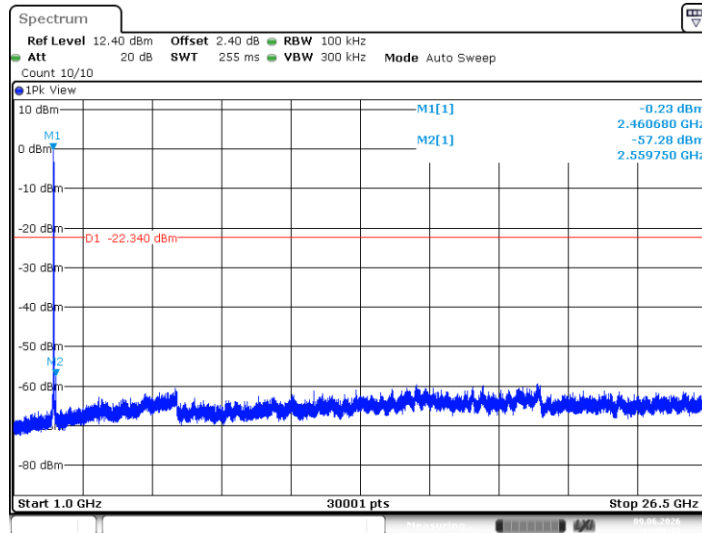


11N20SISO_Ant1_2462_30~1000



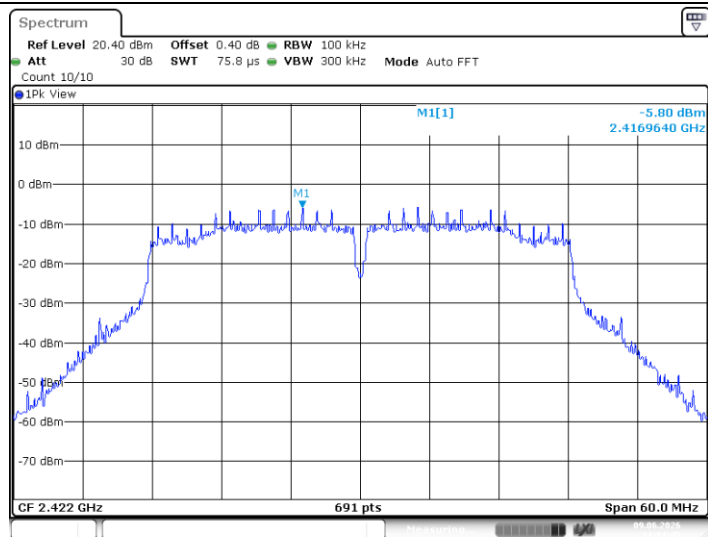
Date: 9.JUN.2026 11:08:53

11N20SISO_Ant1_2462_1000~26500



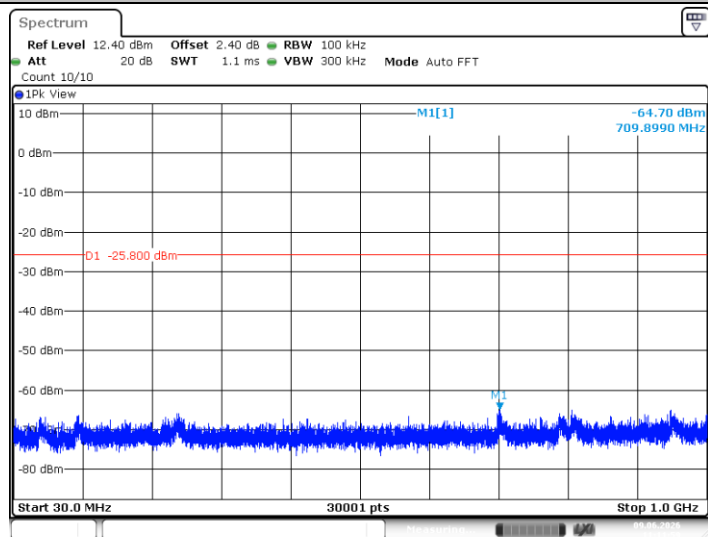
Date: 9.JUN.2026 11:09:31

11N40SISO_Ant1_2422_0~Reference



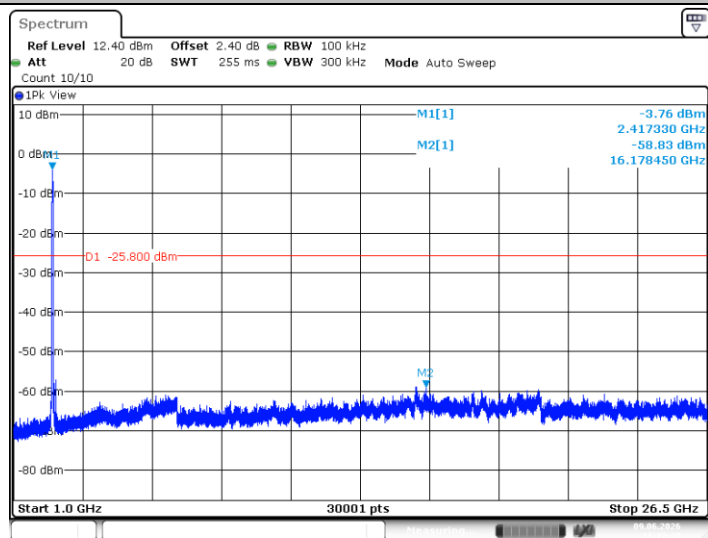
Date: 9.JUN.2026 11:11:45

11N40SISO_Ant1_2422_30~1000



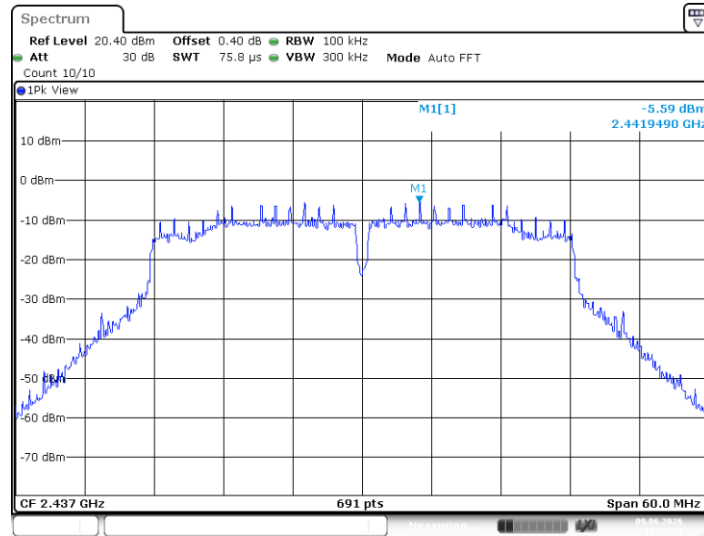
Date: 9.JUN.2026 11:12:00

11N40SISO_Ant1_2422_1000~26500



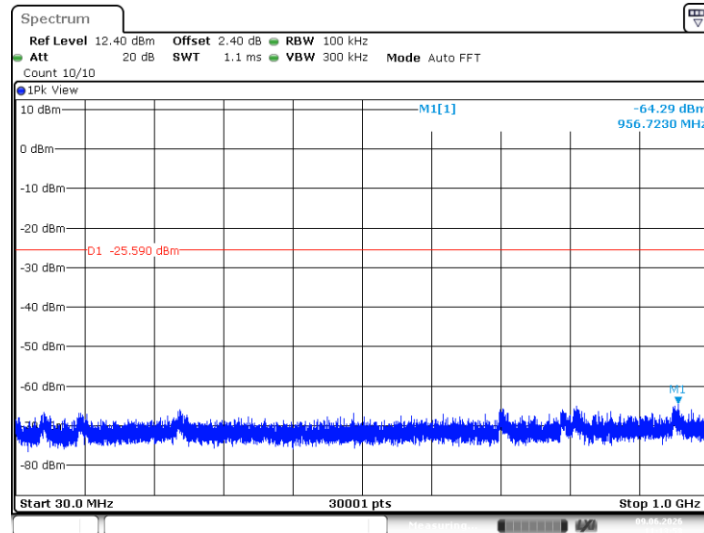
Date: 9.JUN.2026 11:12:37

11N40SISO_Ant1_2437_0~Reference



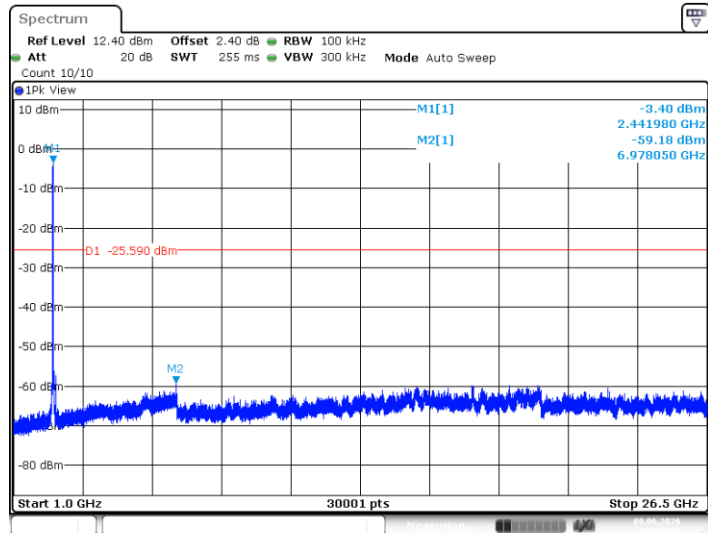
Date: 9.JUN.2026 11:13:43

11N40SISO_Ant1_2437_30~1000



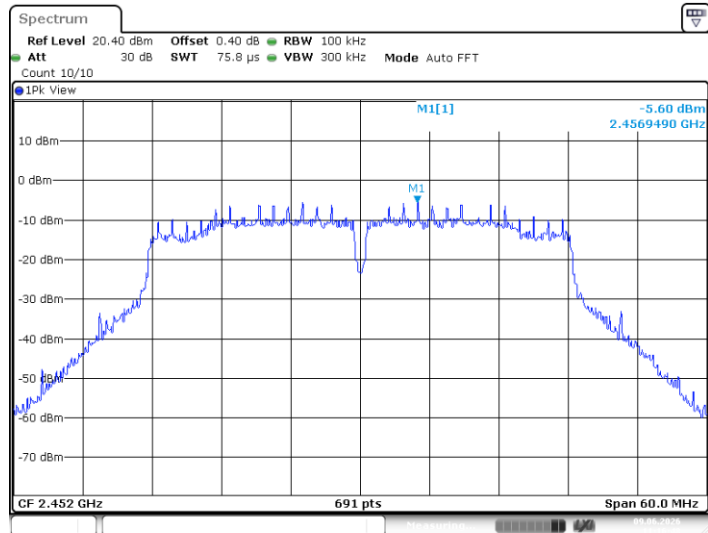
Date: 9.JUN.2026 11:13:58

11N40SISO_Ant1_2437_1000~26500



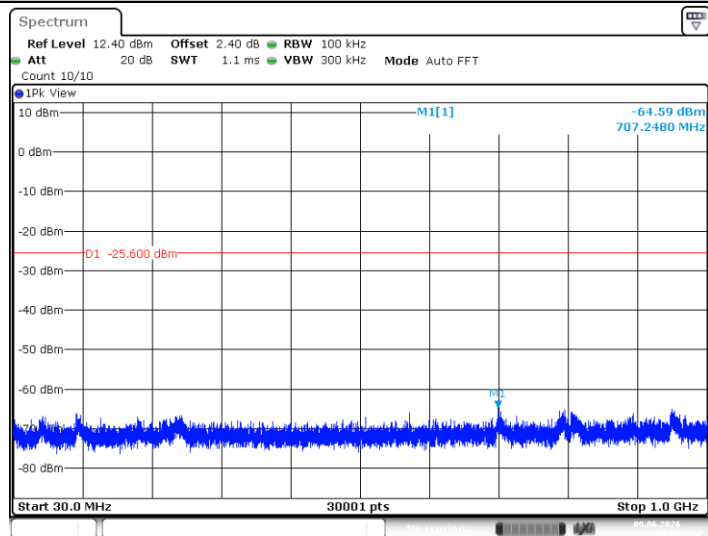
Date: 9.JUN.2026 11:14:35

11N40SISO_Ant1_2452_0~Reference



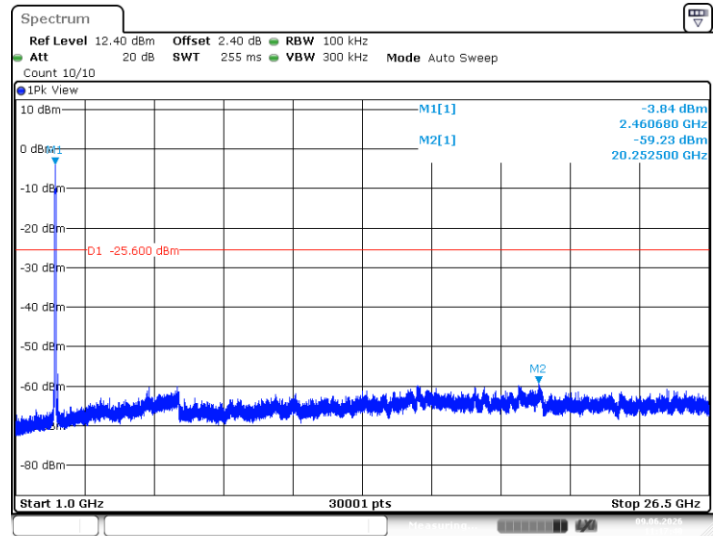
Date: 9.JUN.2026 11:16:48

11N40SISO_Ant1_2452_30~1000



Date: 9.JUN.2026 11:17:03

11N40SISO_Ant1_2452_1000~26500



Date: 9.JUN.2026 11:17:40

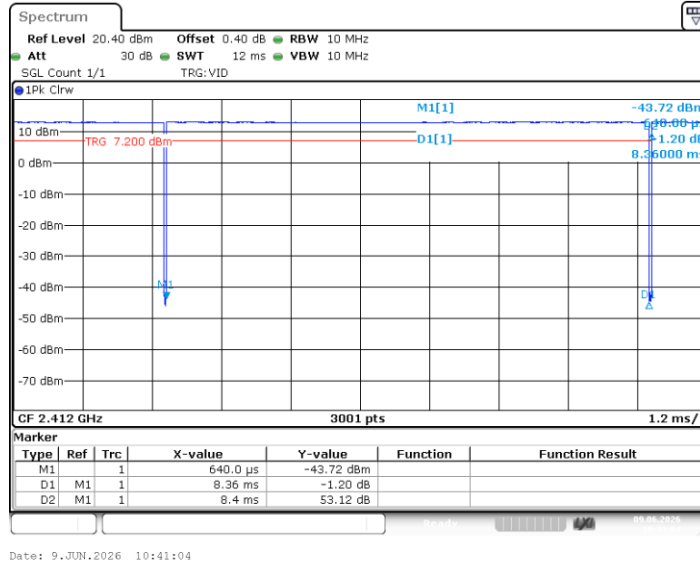
Appendix G: Duty Cycle

Test Result

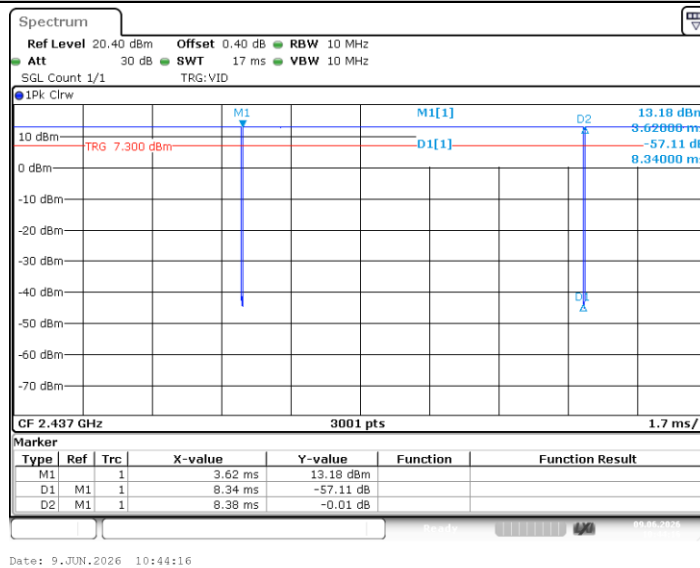
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor [dB]	T Factor [dB]
11B	Ant1	2412	8.36	8.40	99.52	0.02	0.12
		2437	8.34	8.38	99.52	0.02	0.12
		2462	8.35	8.39	99.52	0.02	0.12
11G	Ant1	2412	0.14	0.19	73.68	1.33	7.14
		2437	0.15	0.20	75.00	1.25	6.67
		2462	0.15	0.19	78.95	1.03	6.67
11N20SISO	Ant1	2412	0.17	0.22	77.27	1.12	5.88
		2437	0.18	0.23	78.26	1.06	5.56
		2462	0.18	0.23	78.26	1.06	5.56
11N40SISO	Ant1	2422	0.18	0.23	78.26	1.06	5.56
		2437	0.18	0.23	78.26	1.06	5.56
		2452	0.18	0.23	78.26	1.06	5.56

Test Graphs

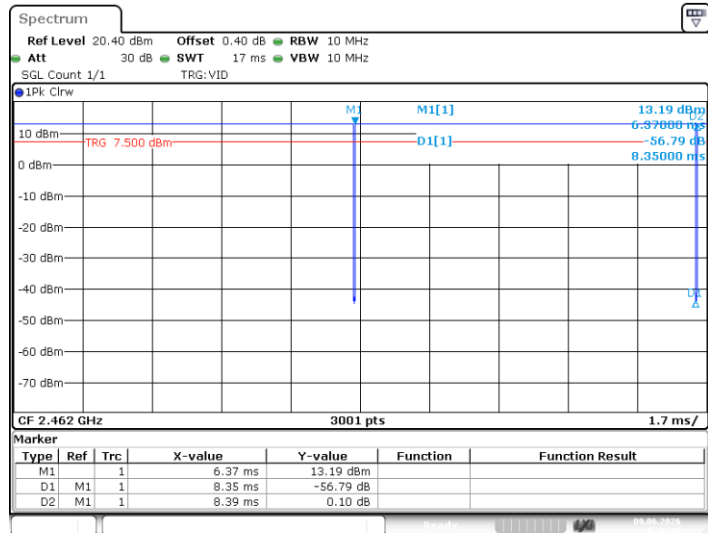
11B_Ant1_2412



11B_Ant1_2437

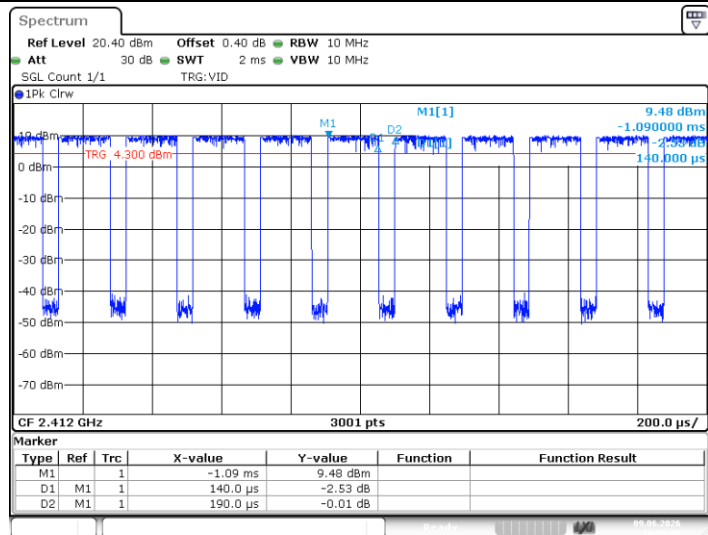


11B_Ant1_2462



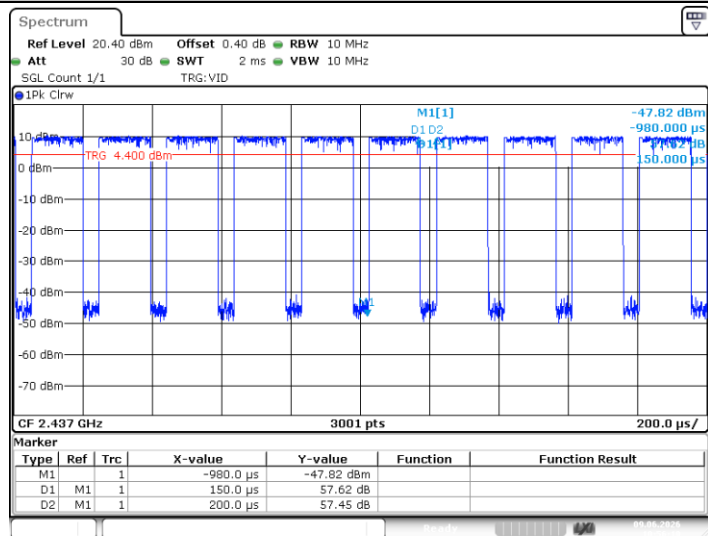
Date: 9.JUN.2026 10:46:18

11G_Ant1_2412



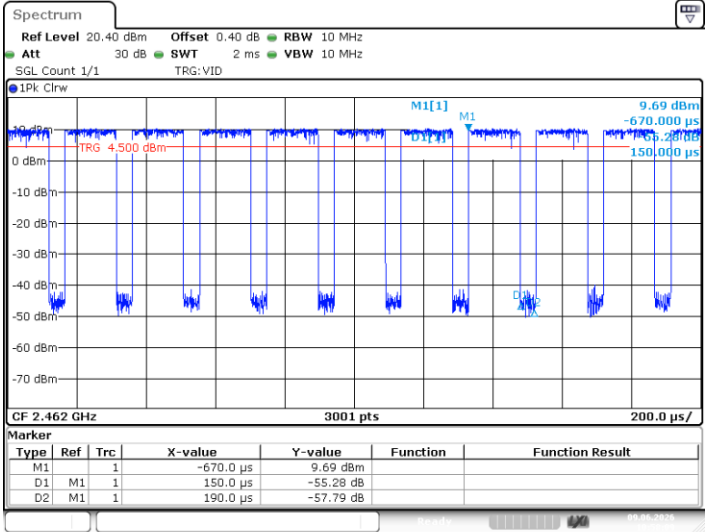
Date: 9.JUN.2026 10:53:00

11G_Ant1_2437



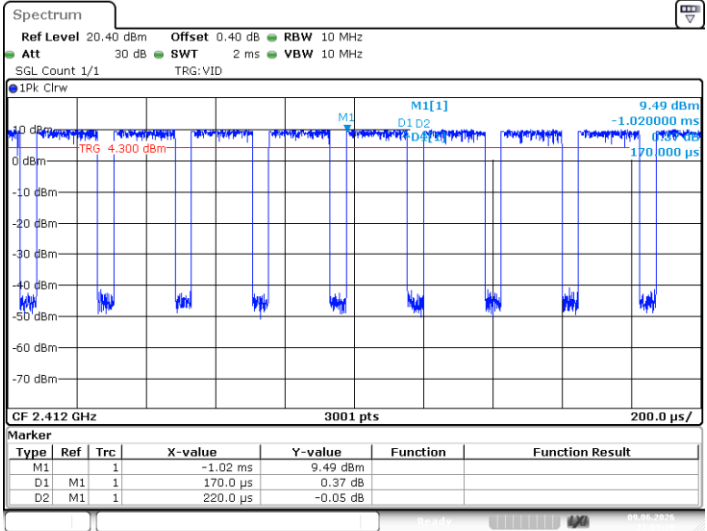
Date: 9.JUN.2026 10:56:11

11G_Ant1_2462



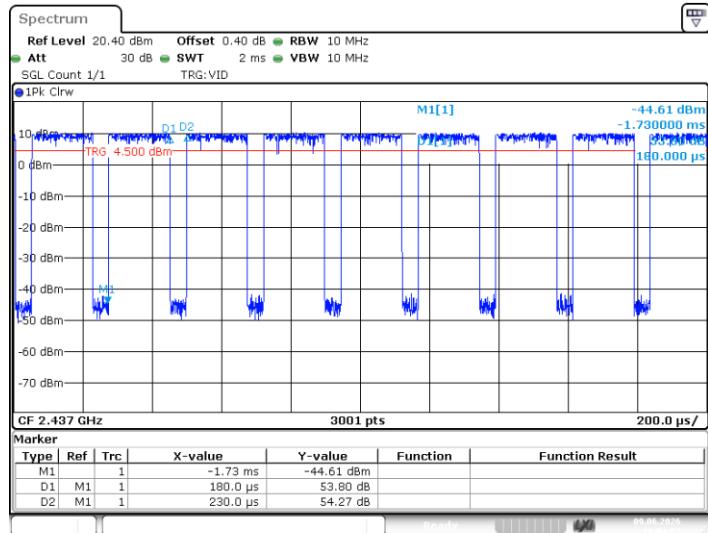
Date: 9.JUN.2026 10:58:09

11N20SISO_Ant1_2412



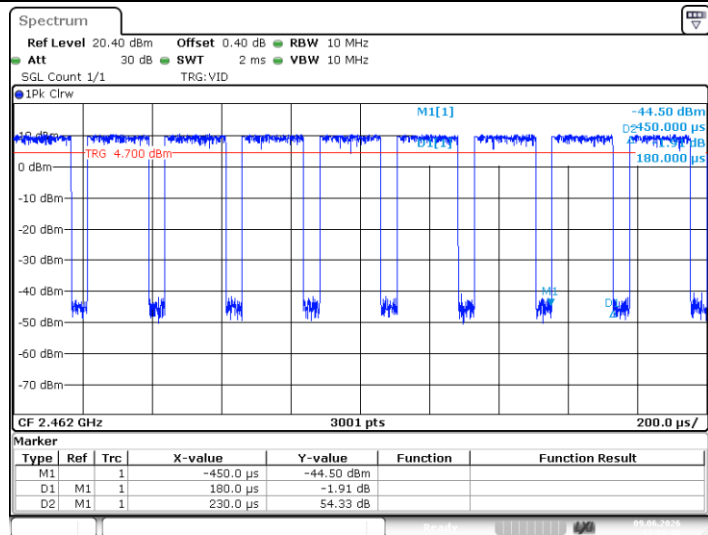
Date: 9.JUN.2026 11:01:39

11N20SISO_Ant1_2437



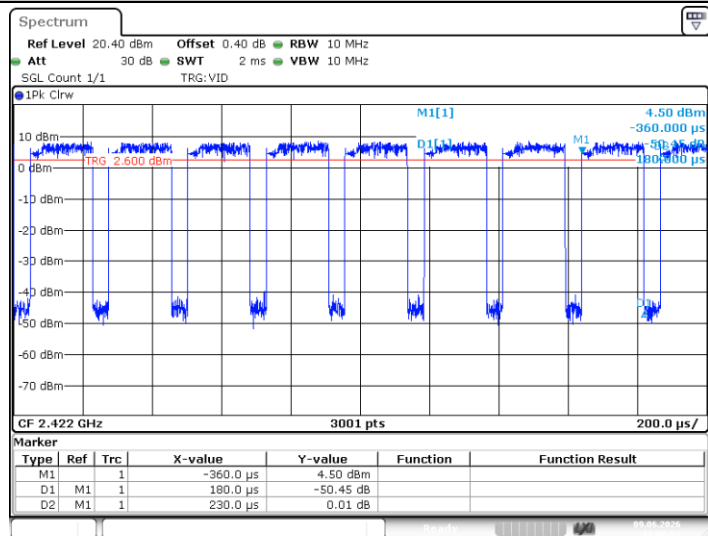
Date: 9.JUN.2026 11:04:51

11N20SISO_Ant1_2462



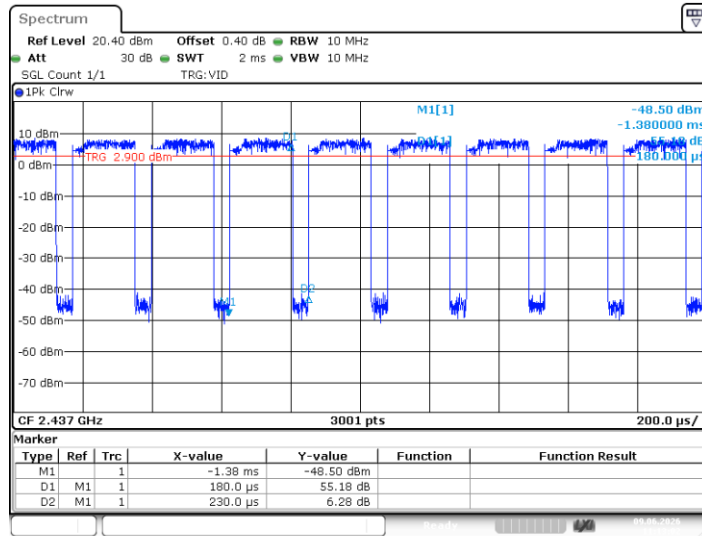
Date: 9.JUN.2026 11:06:45

11N40SISO_Ant1_2422



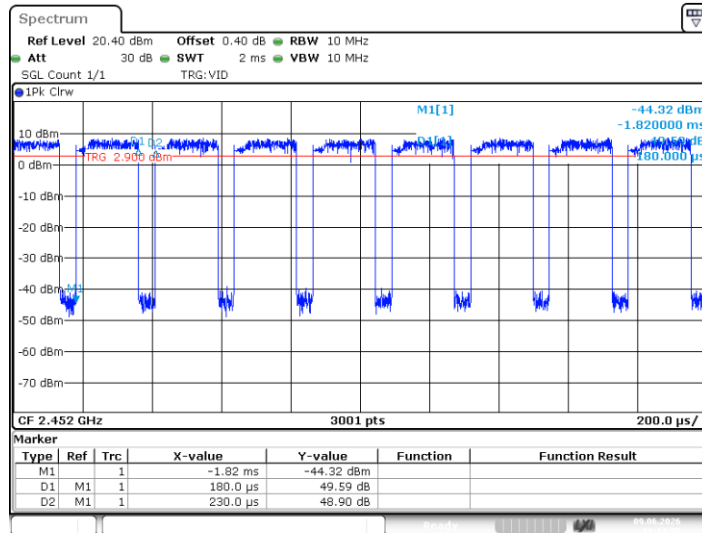
Date: 9.JUN.2026 11:09:51

11N40SISO_Ant1_2437



Date: 9.JUN.2026 11:13:02

11N40SISO_Ant1_2452



Date: 9.JUN.2026 11:14:55

Appendix H: Emissions in Restricted Bands

Test Result

TestMod e	Antenn a	ChNam e	Frequen cy[MHz]	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-59.65	2.7	0.02	38.27	≤54	PASS
				AV	2386.101	-55.42	2.7	0.02	42.5	≤54	PASS
				AV	2390.000	-56.29	2.7	0.02	41.63	≤54	PASS
				Peak	2310.000	-48.11	2.7	0.00	49.79	≤74	PASS
				Peak	2386.667	-44.49	2.7	0.00	53.41	≤74	PASS
				Peak	2390.000	-44.7	2.7	0.00	53.2	≤74	PASS
		High	2462	AV	2483.500	-56.01	2.7	0.02	41.91	≤54	PASS
				AV	2487.986	-55.77	2.7	0.02	42.15	≤54	PASS
				AV	2500.000	-58.73	2.7	0.02	39.19	≤54	PASS
				Peak	2483.500	-46.1	2.7	0.00	51.8	≤74	PASS
				Peak	2484.957	-45.8	2.7	0.00	52.1	≤74	PASS
				Peak	2500.000	-47.92	2.7	0.00	49.98	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-59.88	2.7	1.33	39.35	≤54	PASS
				AV	2339.565	-57.91	2.7	1.33	41.32	≤54	PASS
				AV	2390.000	-59.37	2.7	1.33	39.86	≤54	PASS
				Peak	2310.000	-49.15	2.7	0.00	48.75	≤74	PASS
				Peak	2340.130	-46.29	2.7	0.00	51.61	≤74	PASS
				Peak	2390.000	-48.68	2.7	0.00	49.22	≤74	PASS
		High	2462	AV	2483.500	-58.96	2.7	1.03	39.97	≤54	PASS
				AV	2483.522	-58.96	2.7	1.03	39.97	≤54	PASS
				AV	2500.000	-59.54	2.7	1.03	39.39	≤54	PASS
				Peak	2483.500	-47.44	2.7	0.00	50.46	≤74	PASS
				Peak	2483.841	-47.03	2.7	0.00	50.87	≤74	PASS
				Peak	2500.000	-48.89	2.7	0.00	49.01	≤74	PASS
11N20SI SO	Ant1	Low	2412	AV	2310.000	-59.9	2.7	1.12	39.12	≤54	PASS
				AV	2339.942	-57.9	2.7	1.12	41.12	≤54	PASS
				AV	2390.000	-59.24	2.7	1.12	39.78	≤54	PASS
				Peak	2310.000	-48.9	2.7	0.00	49	≤74	PASS
				Peak	2342.014	-46.4	2.7	0.00	51.5	≤74	PASS
				Peak	2390.000	-48.27	2.7	0.00	49.63	≤74	PASS
		High	2462	AV	2483.500	-58.88	2.7	1.06	40.08	≤54	PASS
				AV	2483.522	-58.88	2.7	1.06	40.08	≤54	PASS
				AV	2500.000	-59.52	2.7	1.06	39.44	≤54	PASS
				Peak	2483.500	-48	2.7	0.00	49.9	≤74	PASS
				Peak	2483.841	-47.46	2.7	0.00	50.44	≤74	PASS
				Peak	2500.000	-48.55	2.7	0.00	49.35	≤74	PASS

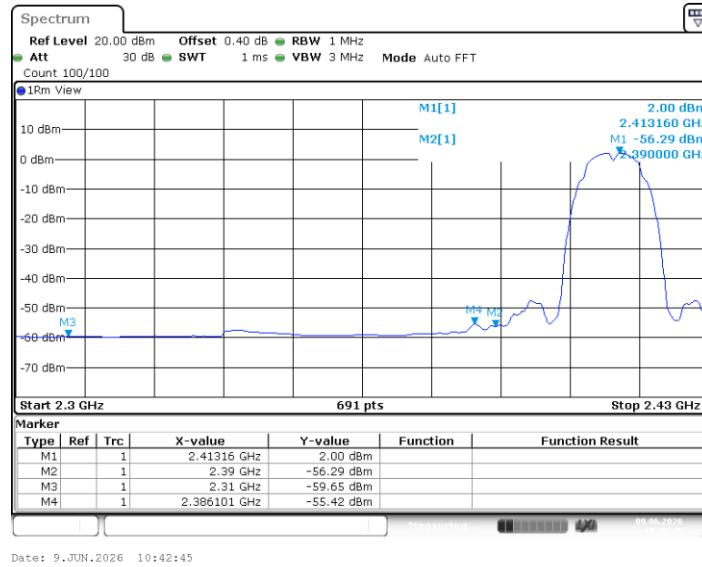
11N40SI SO	Ant1	Low	2422	AV	2310.000	-59.89	2.7	1.06	39.07	≤54	PASS
				AV	2389.783	-57.8	2.7	1.06	41.16	≤54	PASS
				AV	2390.000	-57.8	2.7	1.06	41.16	≤54	PASS
				Peak	2310.000	-49.81	2.7	0.00	48.09	≤74	PASS
				Peak	2383.261	-45.41	2.7	0.00	52.49	≤74	PASS
				Peak	2390.000	-47.00	2.7	0.00	50.9	≤74	PASS
		High	2452	AV	2483.500	-58.52	2.7	1.06	40.44	≤54	PASS
				AV	2483.514	-58.52	2.7	1.06	40.44	≤54	PASS
				AV	2500.000	-59.5	2.7	1.06	39.46	≤54	PASS
				Peak	2483.500	-47.38	2.7	0.00	50.52	≤74	PASS
				Peak	2484.058	-46.19	2.7	0.00	51.71	≤74	PASS
				Peak	2500.000	-47.32	2.7	0.00	50.58	≤74	PASS

Note:

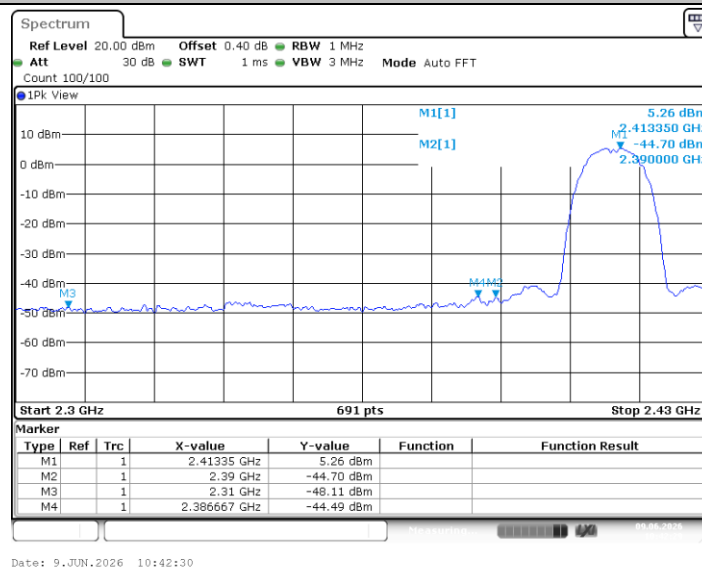
1. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

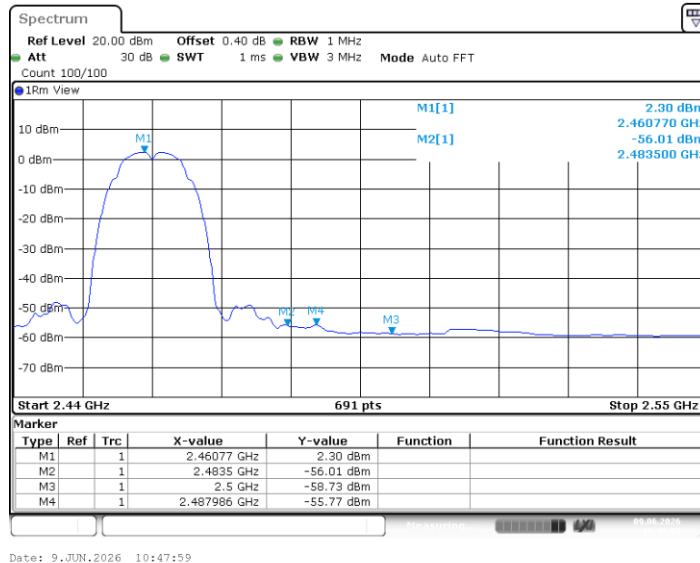
11B_Ant1_Low_2412_AV



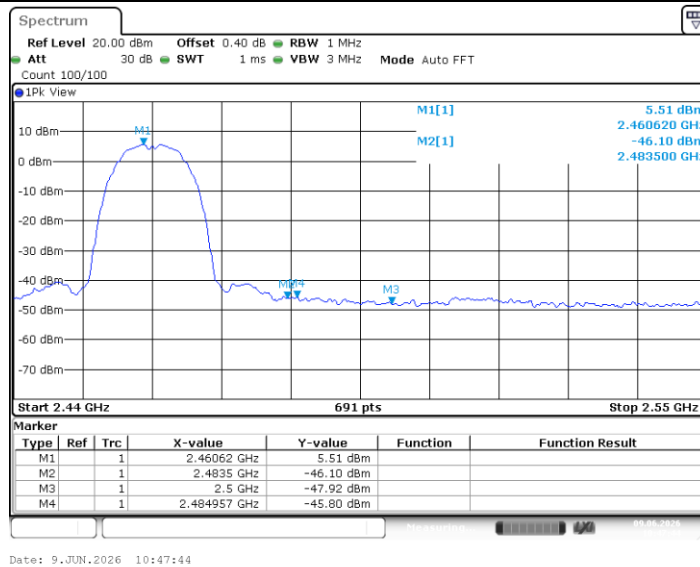
11B_Ant1_Low_2412_Peak



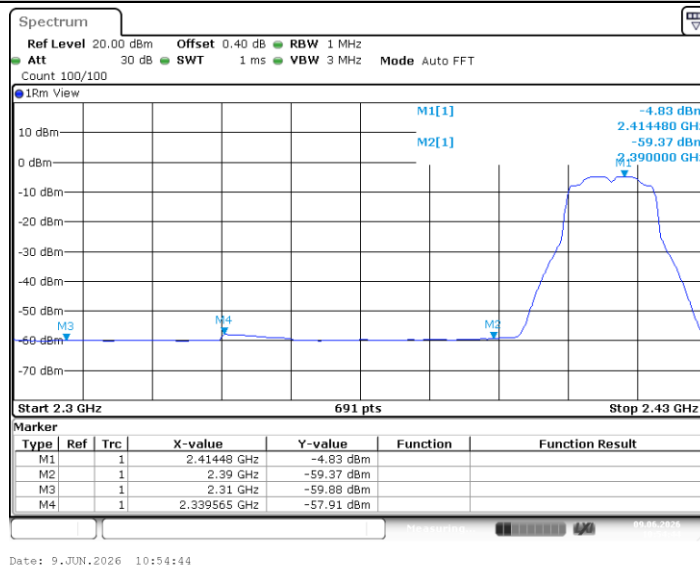
11B_Ant1_High_2462_AV



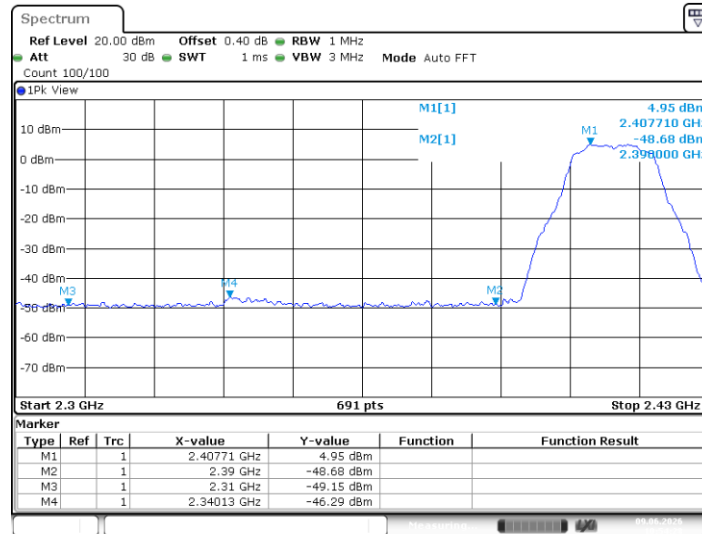
11B_Ant1_High_2462_Peak



11G_Ant1_Low_2412_AV

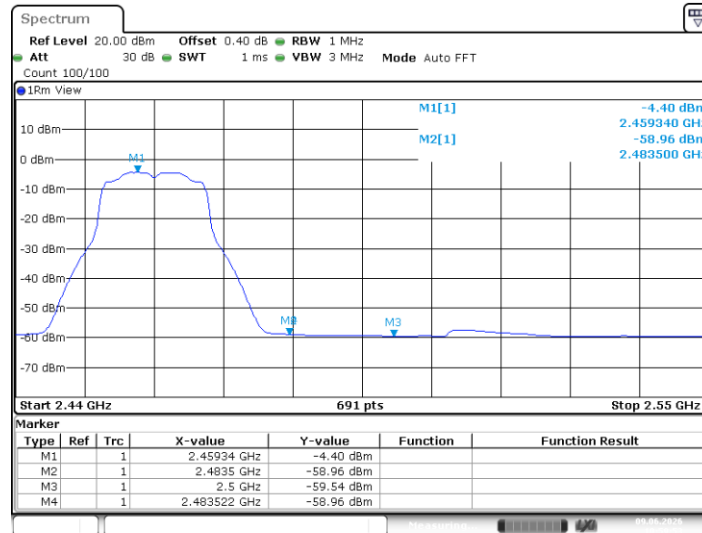


11G_Ant1_Low_2412_Peak



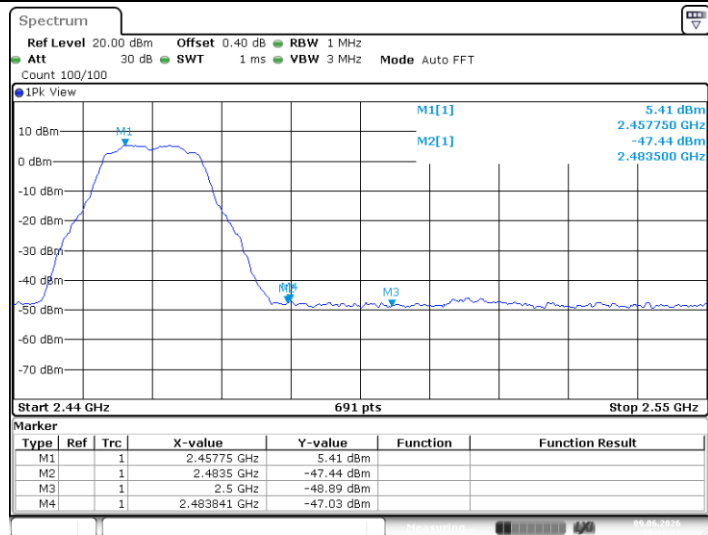
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11G_Ant1_High_2462_AV



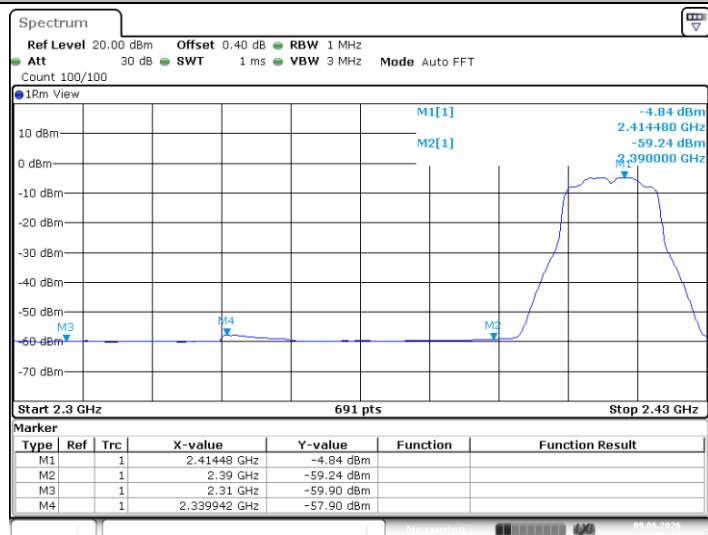
Date: 9.JUN.2026 10:59:53

11G_Ant1_High_2462_Peak



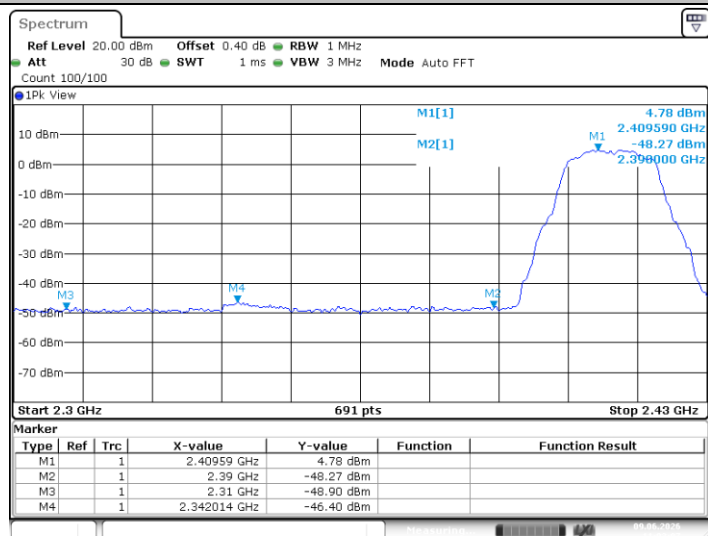
Date: 9.JUN.2026 10:59:37

11N20SISO_Ant1_Low_2412_AV



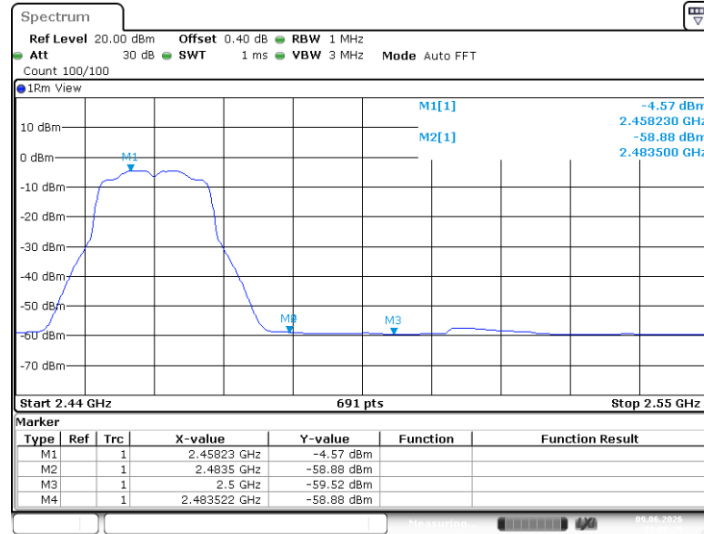
Date: 9.JUN.2026 11:03:23

11N20SISO_Ant1_Low_2412_Peak



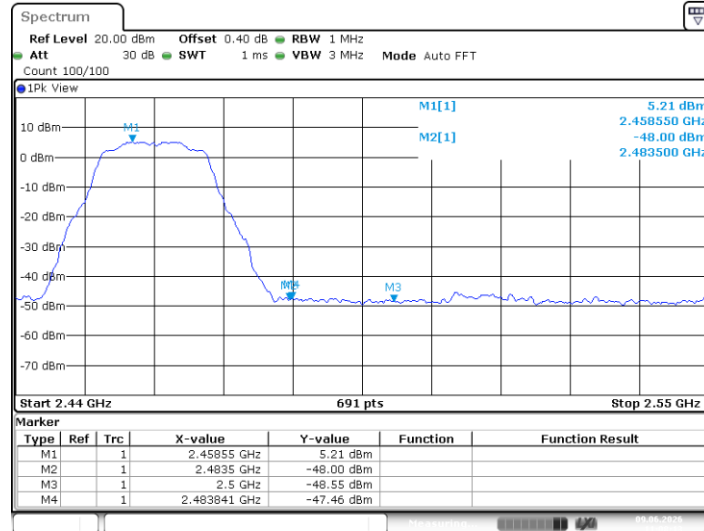
Date: 9.JUN.2026 11:03:07

11N20SISO_Ant1_High_2462_AV



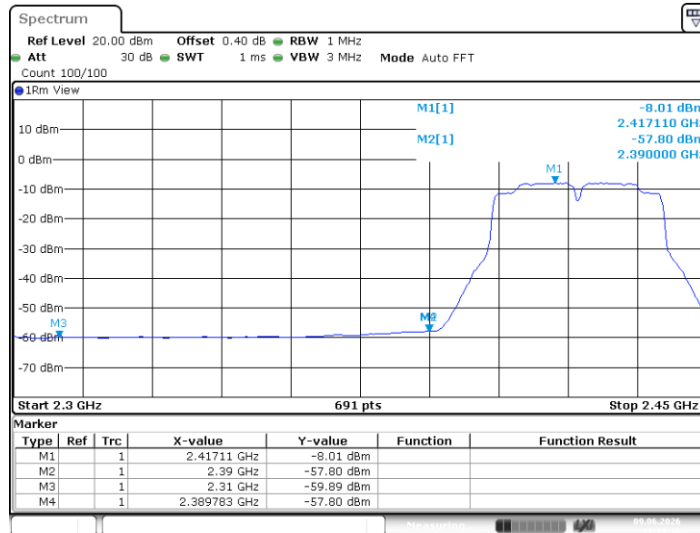
Date: 9.JUN.2026 11:08:29

11N20SISO_Ant1_High_2462_Peak



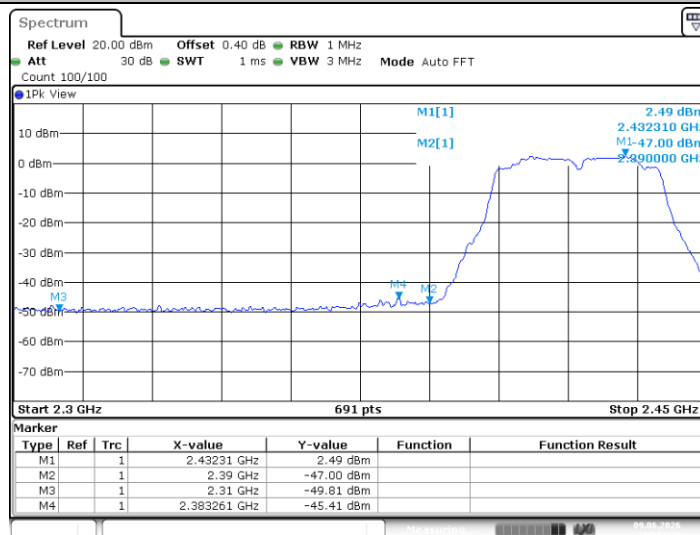
Date: 9.JUN.2026 11:08:13

11N40SISO_Ant1_Low_2422_AV



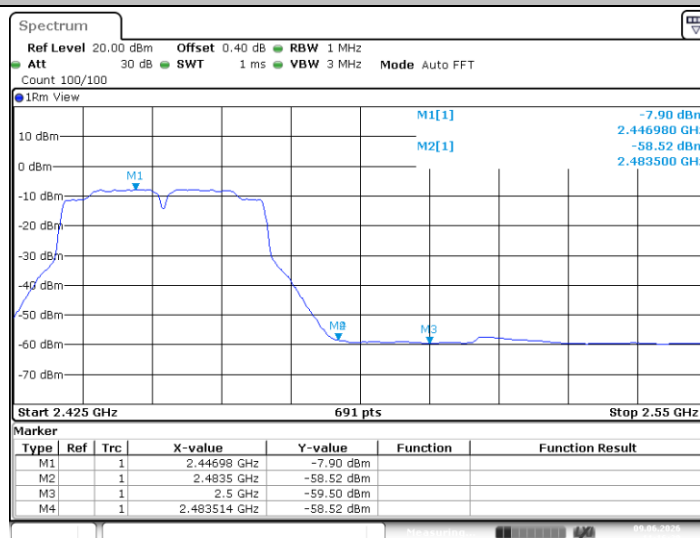
Date: 9.JUN.2026 11:11:35

11N40SISO_Ant1_Low_2422_Peak



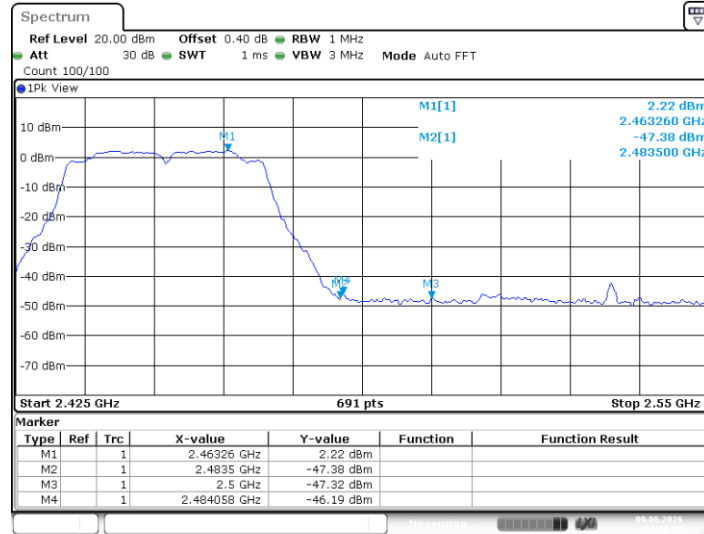
Date: 9.JUN.2026 11:11:20

11N40SISO_Ant1_High_2452_AV



Date: 9.JUN.2026 11:16:38

11N40SISO_Ant1_High_2452_Peak



Date: 9.JUN.2026 11:16:23