

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2ATUJ-TV-XMTYC-7

Company : Shenzhen TRIS VISION Technology Co., Ltd.

EUT : 7-inch DVR with LED display

Model Number : TV-XMTYC-7

Report No. : CTA26052000301

Reviewed By : Eric Wang

FCC Appendix RF Test Data for 2.4GWIFI module ATBM6062

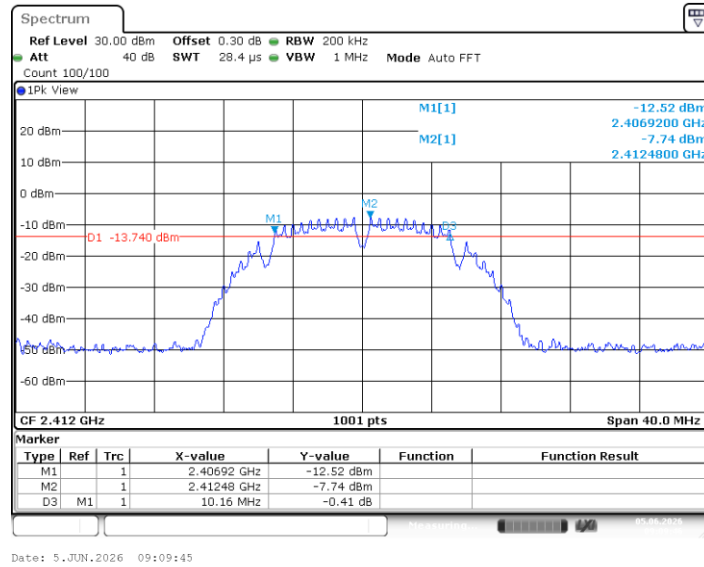
Appendix A: DTS Bandwidth

Test Result

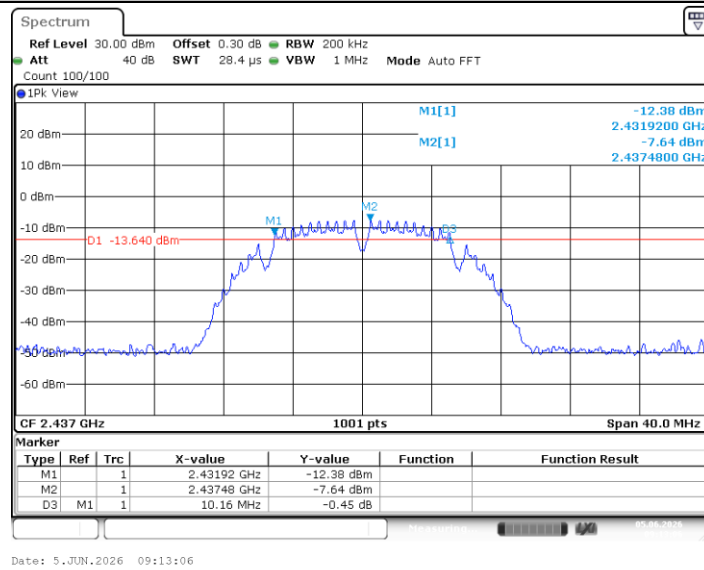
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.16	2406.92	2417.08	0.5	PASS
		2437	10.16	2431.92	2442.08	0.5	PASS
		2462	10.16	2456.92	2467.08	0.5	PASS
11G	Ant1	2412	15.92	2404.04	2419.96	0.5	PASS
		2437	15.92	2429.04	2444.96	0.5	PASS
		2462	15.36	2454.24	2469.60	0.5	PASS
11N20SISO	Ant1	2412	15.20	2404.40	2419.60	0.5	PASS
		2437	16.56	2429.00	2445.56	0.5	PASS
		2462	16.00	2454.40	2470.40	0.5	PASS

Test Graphs

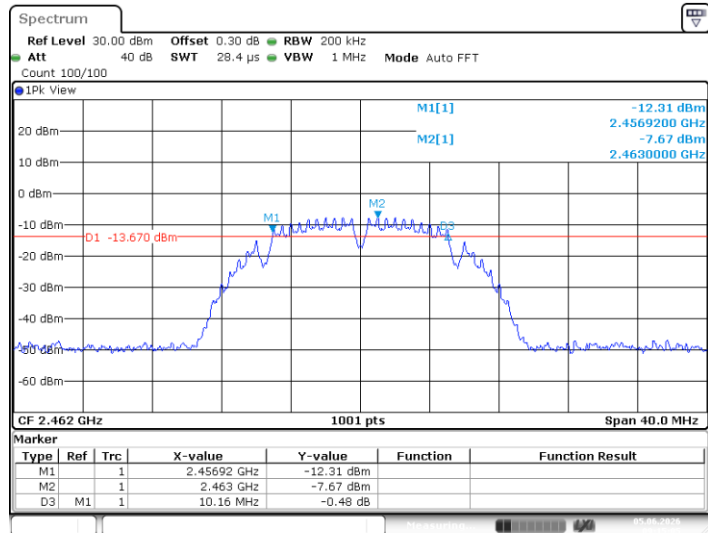
11B_Ant1_2412



11B_Ant1_2437

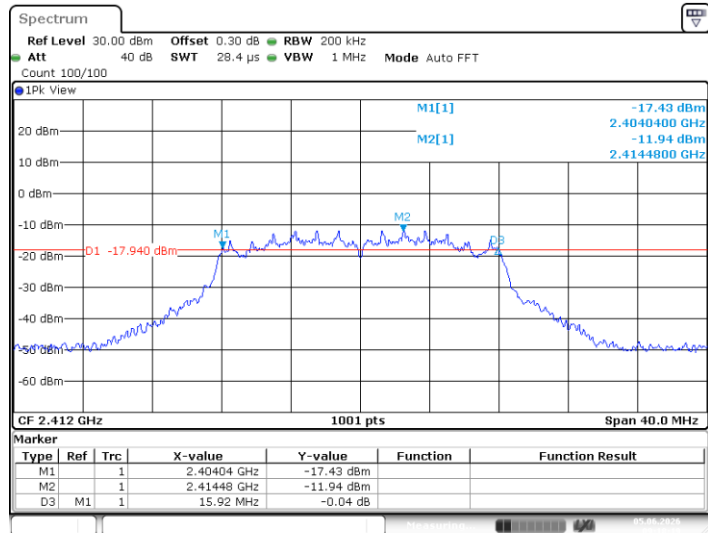


11B_Ant1_2462



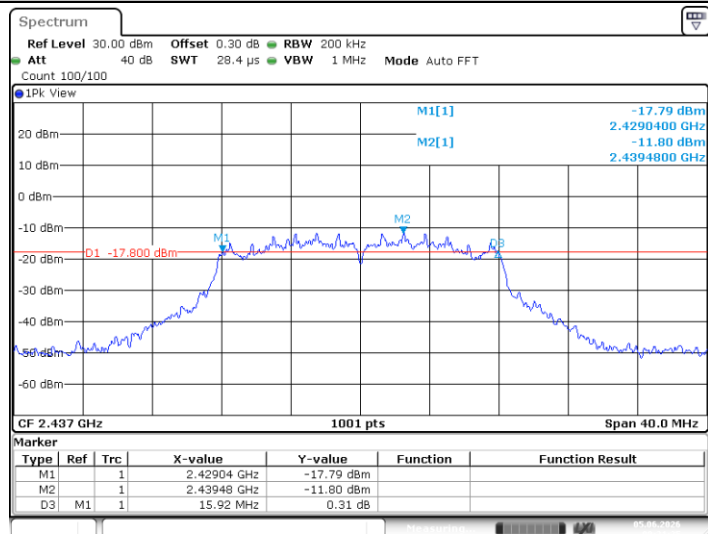
Date: 5.JUN.2026 09:15:05

11G_Ant1_2412



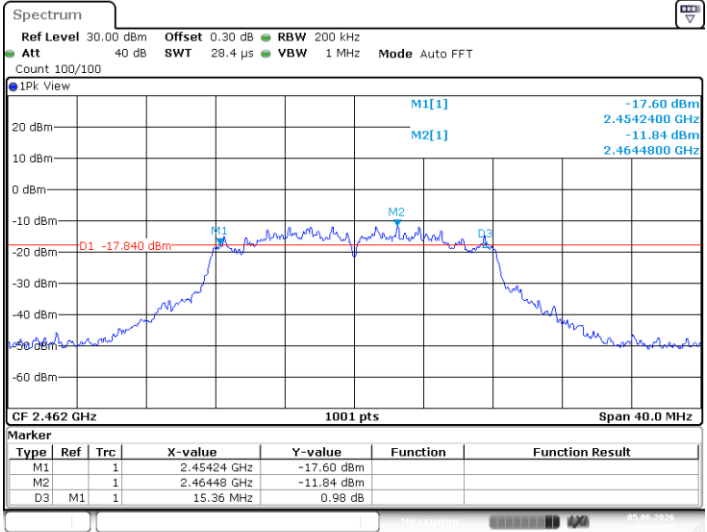
Date: 5.JUN.2026 09:18:20

11G_Ant1_2437



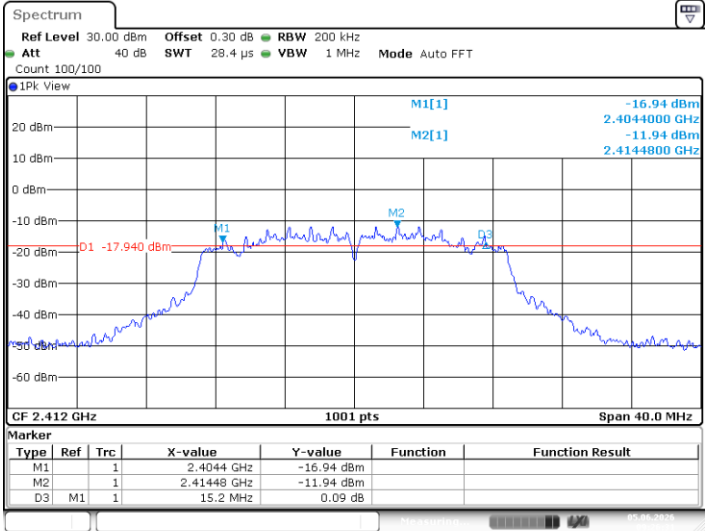
Date: 5.JUN.2026 09:21:25

11G_Ant1_2462



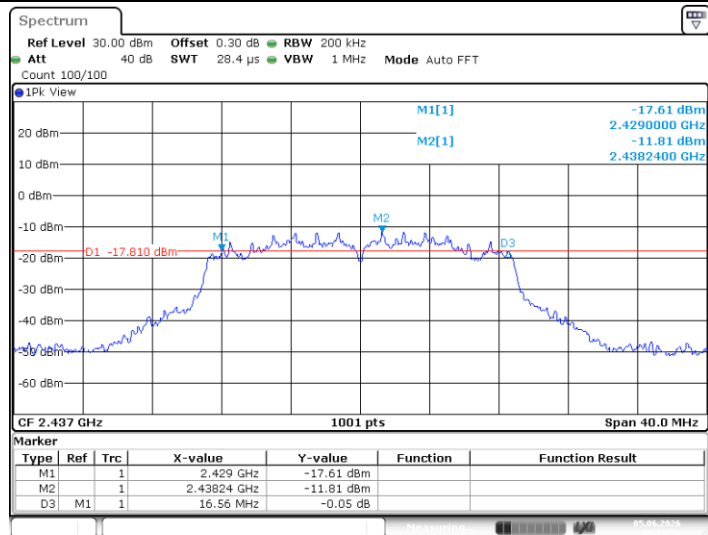
Date: 5.JUN.2026 09:23:22

11N20SISO_Ant1_2412



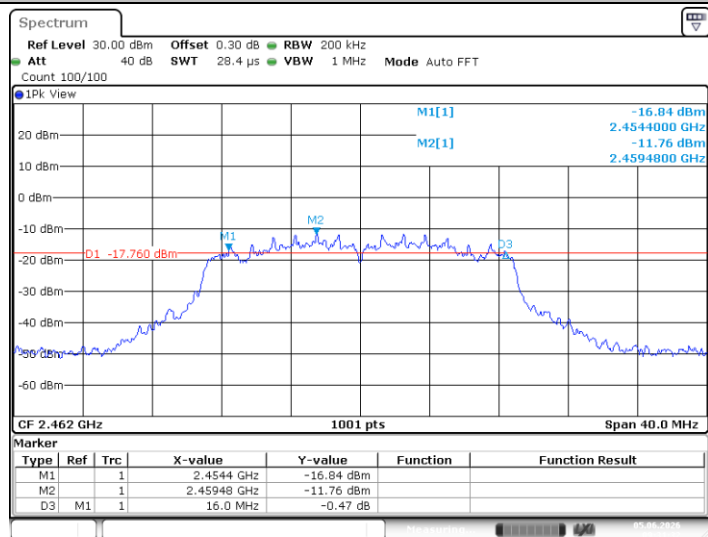
Date: 5.JUN.2026 09:26:31

11N20SISO_Ant1_2437



Date: 5.JUN.2026 09:29:38

11N20SISO_Ant1_2462



Date: 5.JUN.2026 09:31:32

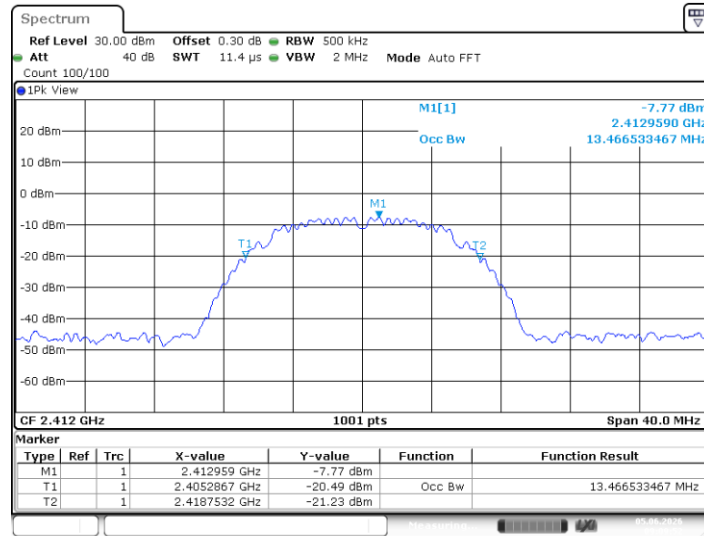
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.467	2405.2867	2418.7532	---	---
		2437	13.467	2430.2867	2443.7532	---	---
		2462	13.506	2455.2468	2468.7532	---	---
11G	Ant1	2412	16.983	2403.5285	2420.5115	---	---
		2437	16.783	2428.7283	2445.5115	---	---
		2462	16.943	2453.5684	2470.5115	---	---
11N20SISO	Ant1	2412	17.942	2403.0490	2420.9910	---	---
		2437	18.062	2427.9291	2445.9910	---	---
		2462	17.822	2453.0490	2470.8711	---	---

Test Graphs

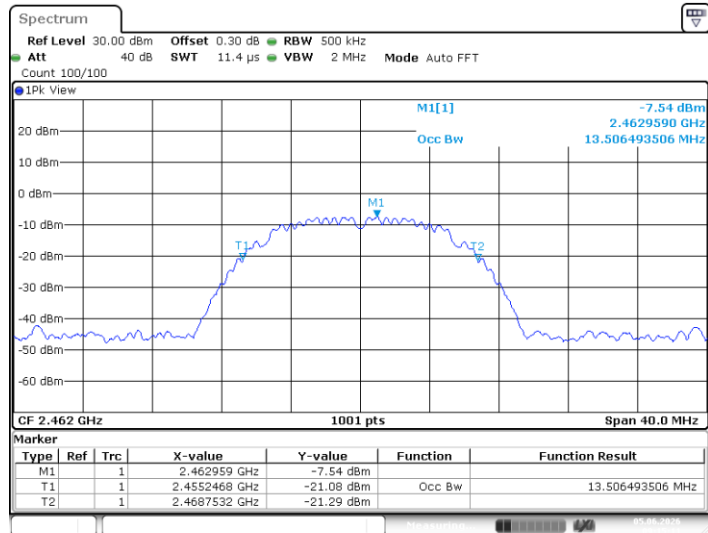
11B_Ant1_2412



11B_Ant1_2437

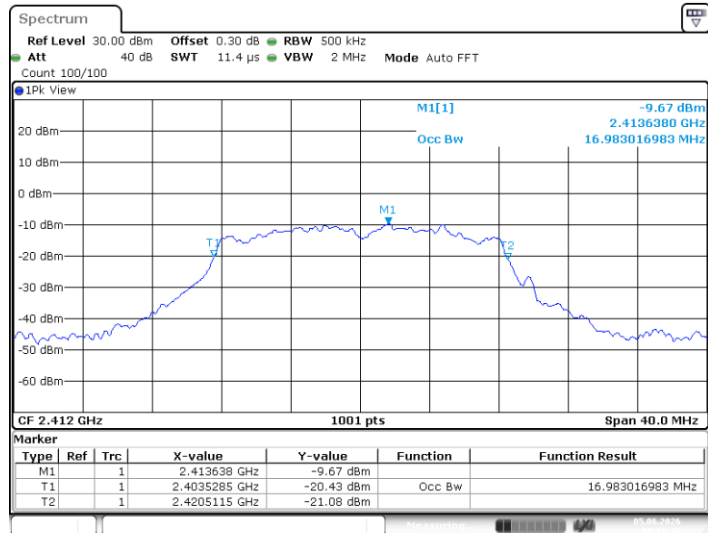


11B_Ant1_2462



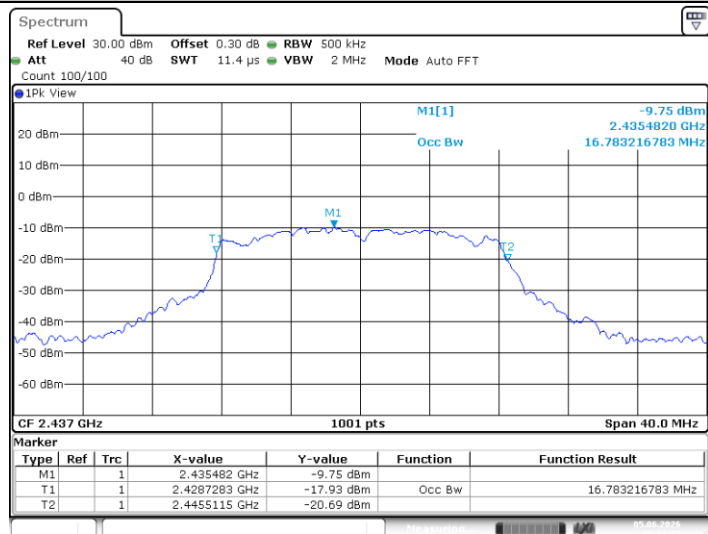
Date: 5.JUN.2026 09:15:12

11G_Ant1_2412



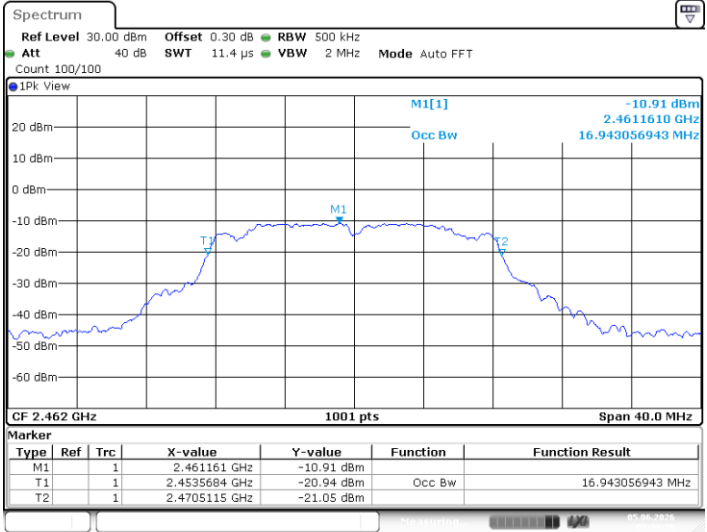
Date: 5.JUN.2026 09:18:26

11G_Ant1_2437

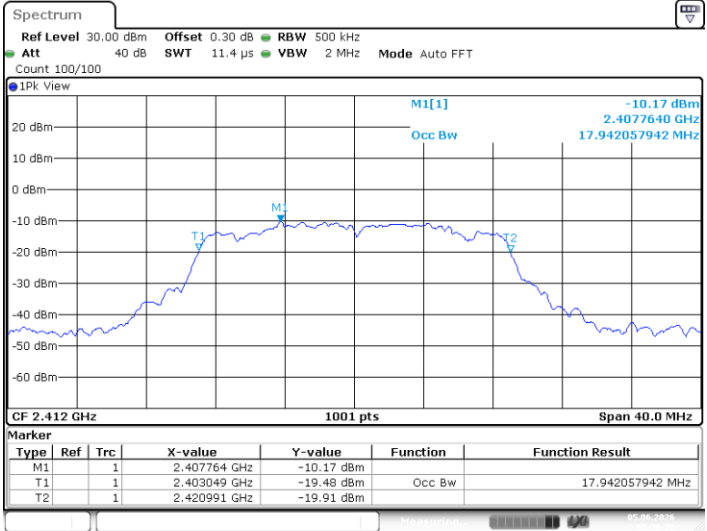


Date: 5.JUN.2026 09:21:32

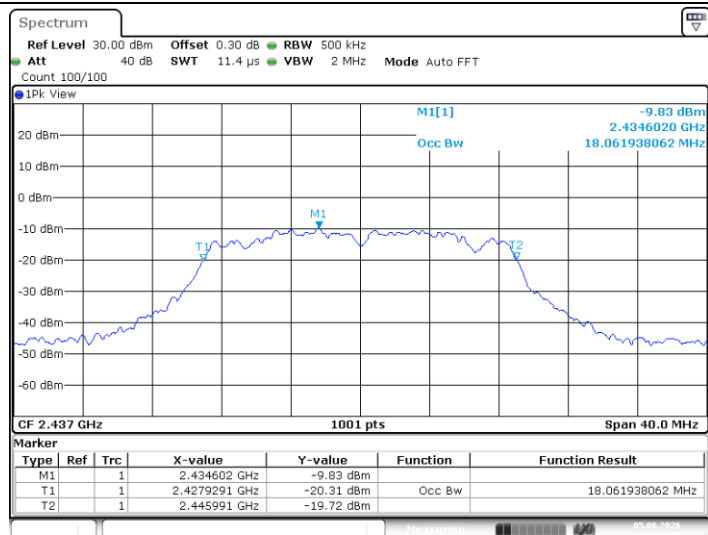
11G_Ant1_2462



11N20SISO_Ant1_2412

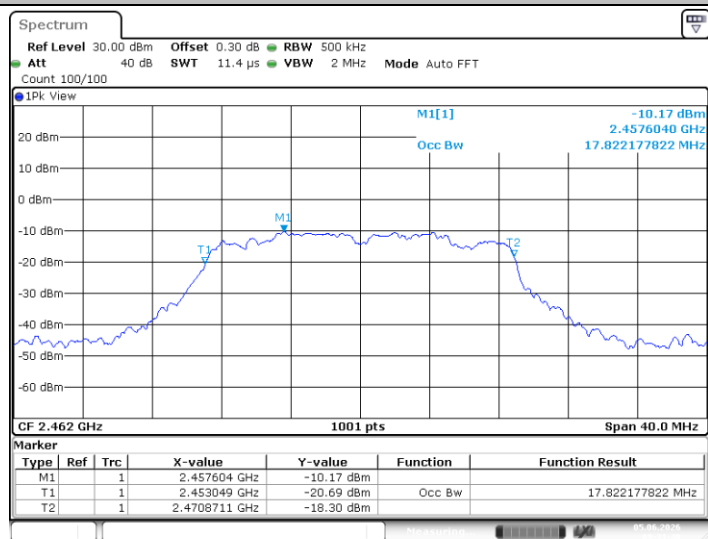


11N20SISO_Ant1_2437



Date: 5.JUN.2026 09:29:45

11N20SISO_Ant1_2462



Date: 5.JUN.2026 09:31:39

Appendix C: Maximum conducted output power

Test Result

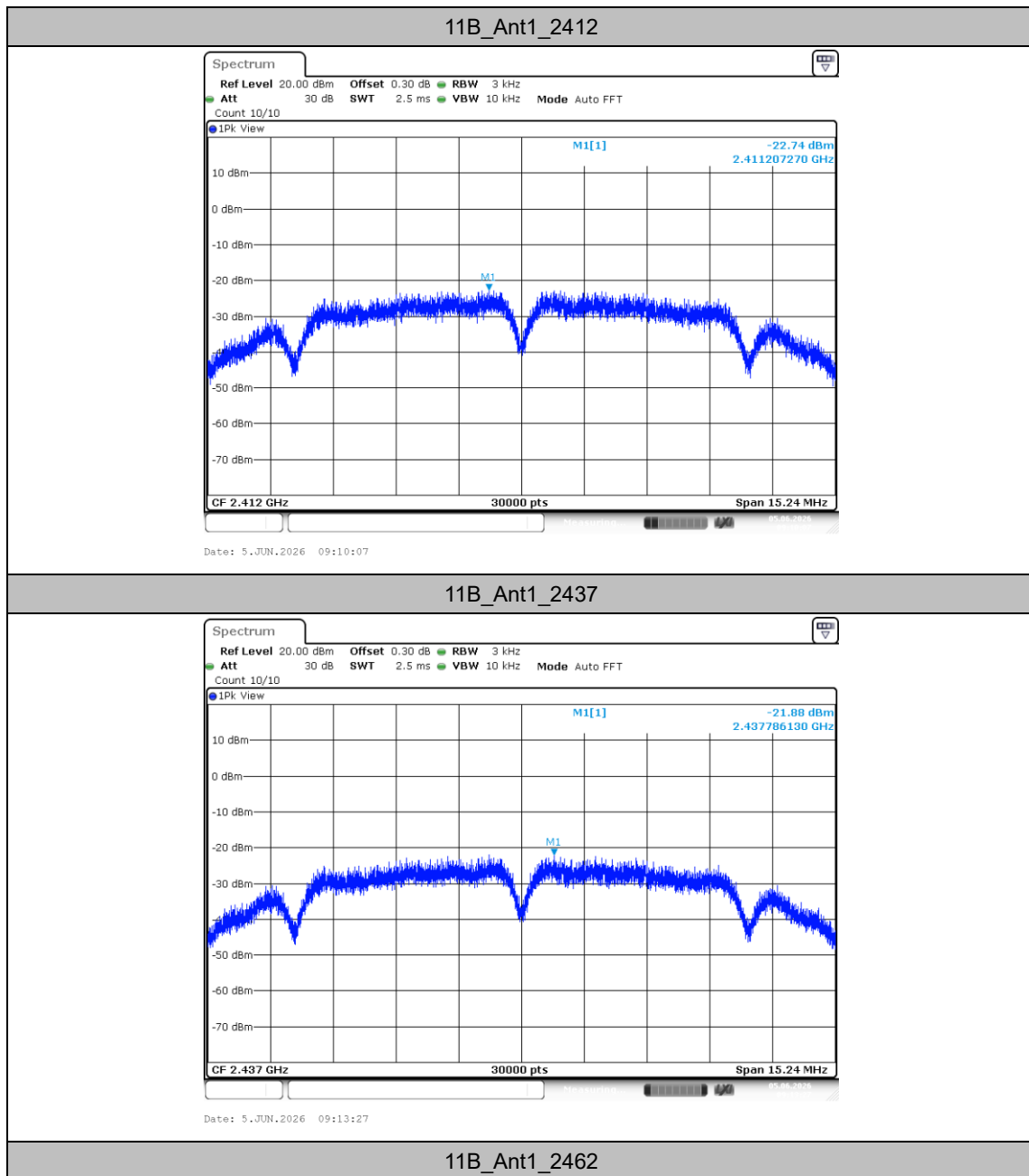
Test Mode	Antenna	Frequency[M Hz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	4.08	≤30.00	PASS
		2437	4.28	≤30.00	PASS
		2462	4.29	≤30.00	PASS
11G	Ant1	2412	3.75	≤30.00	PASS
		2437	3.94	≤30.00	PASS
		2462	3.81	≤30.00	PASS
11N20SISO	Ant1	2412	3.42	≤30.00	PASS
		2437	3.75	≤30.00	PASS
		2462	3.64	≤30.00	PASS

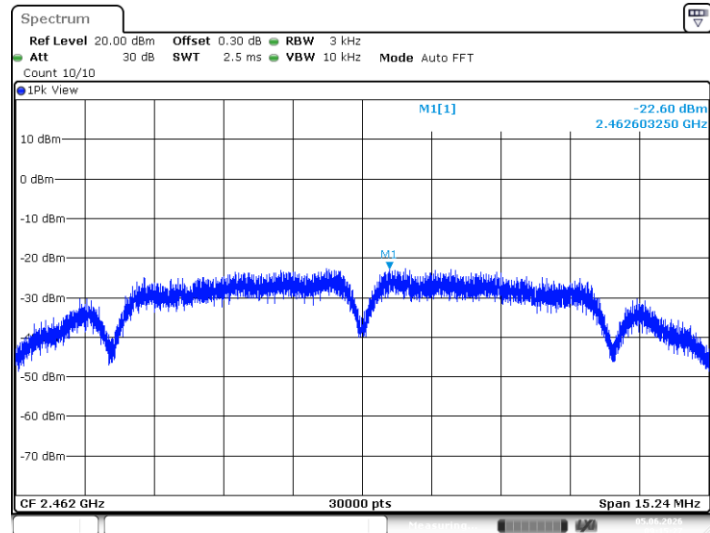
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-22.74	≤8.00	PASS
		2437	-21.88	≤8.00	PASS
		2462	-22.60	≤8.00	PASS
11G	Ant1	2412	-27.32	≤8.00	PASS
		2437	-26.89	≤8.00	PASS
		2462	-28.06	≤8.00	PASS
11N20SISO	Ant1	2412	-27.32	≤8.00	PASS
		2437	-27.00	≤8.00	PASS
		2462	-27.69	≤8.00	PASS

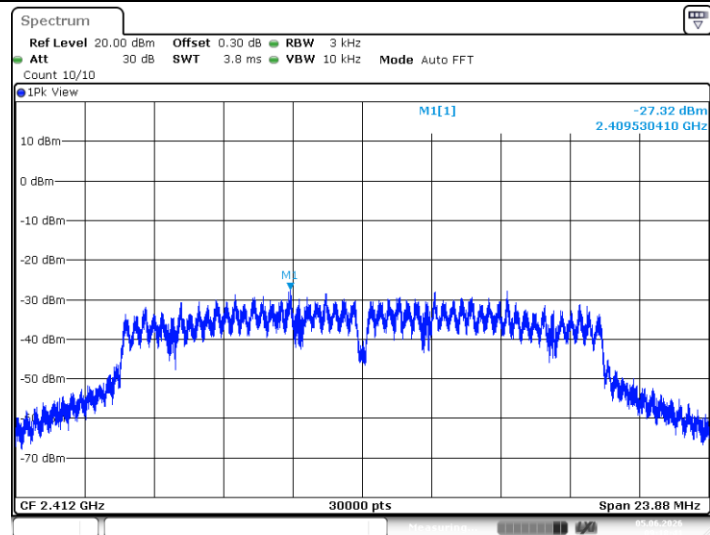
Test Graphs





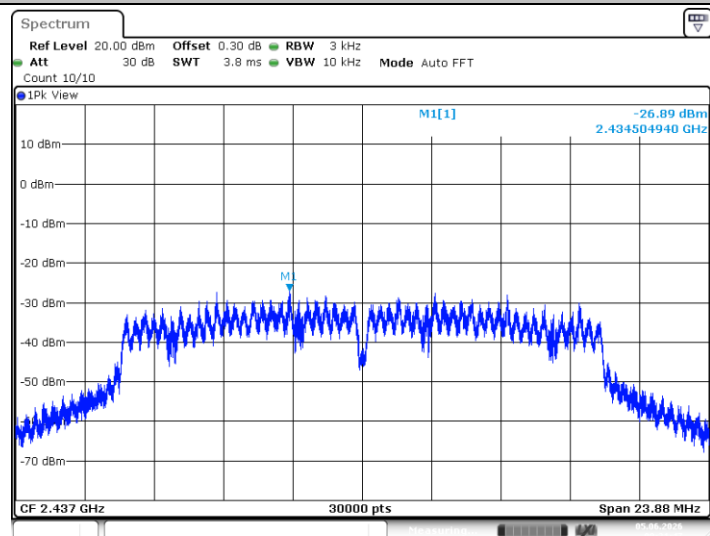
Date: 5.JUN.2026 09:15:27

11G_Ant1_2412



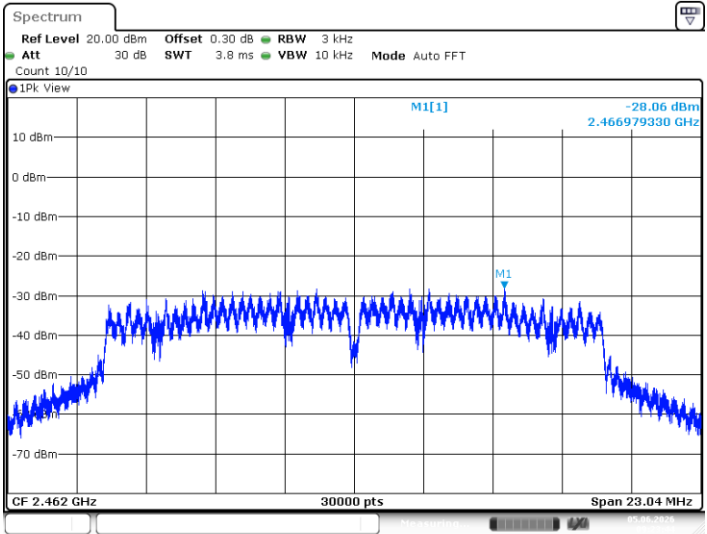
Date: 5.JUN.2026 09:18:41

11G_Ant1_2437



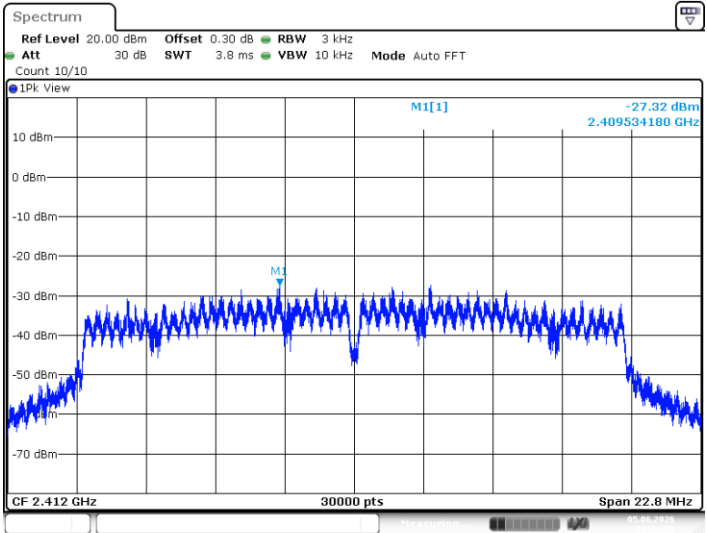
Date: 5.JUN.2026 09:21:47

11G_Ant1_2462



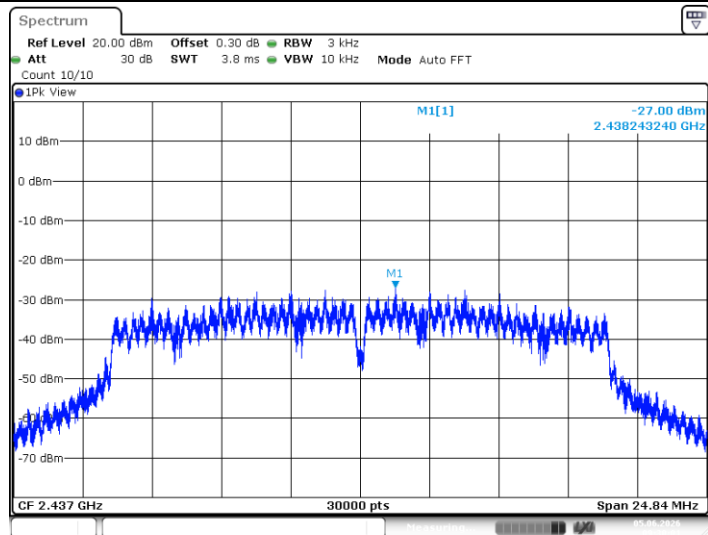
Date: 5.JUN.2026 09:23:44

11N20SISO_Ant1_2412



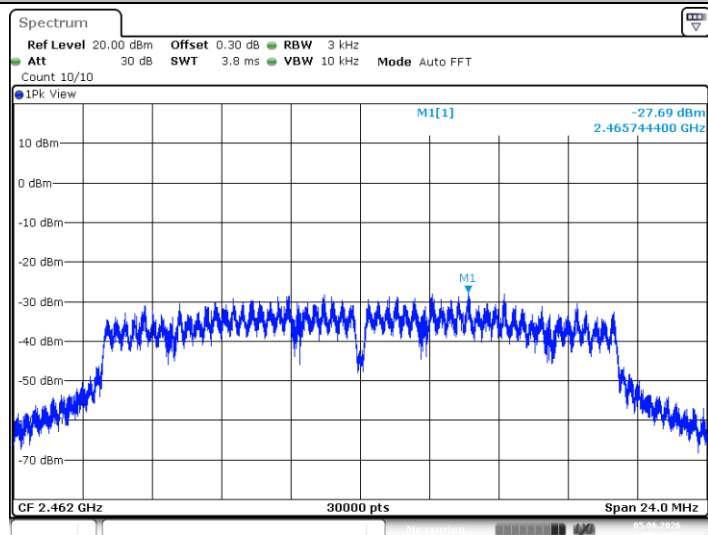
Date: 5.JUN.2026 09:26:53

11N20SISO_Ant1_2437



Date: 5.JUN.2026 09:30:01

11N20SISO_Ant1_2462



Date: 5.JUN.2026 09:31:55

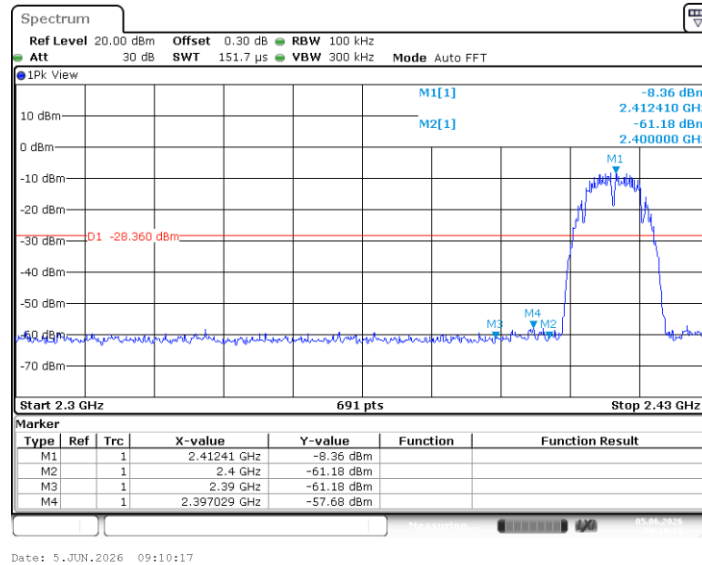
Appendix E: Band edge measurements

Test Result

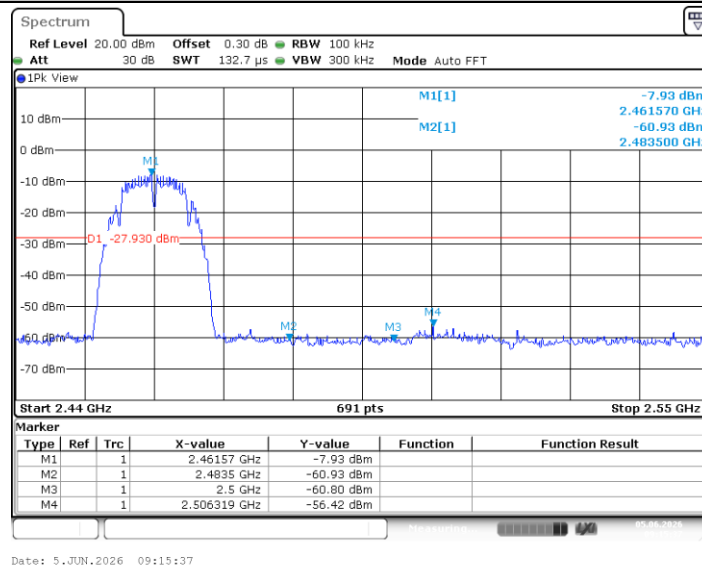
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-8.36	-57.68	≤-28.36	PASS
		High	2462	-7.93	-56.42	≤-27.93	PASS
11G	Ant1	Low	2412	-12.80	-42.35	≤-32.8	PASS
		High	2462	-12.78	-57.26	≤-32.78	PASS
11N20SISO	Ant1	Low	2412	-12.88	-44.7	≤-32.88	PASS
		High	2462	-12.86	-56.4	≤-32.86	PASS

Test Graphs

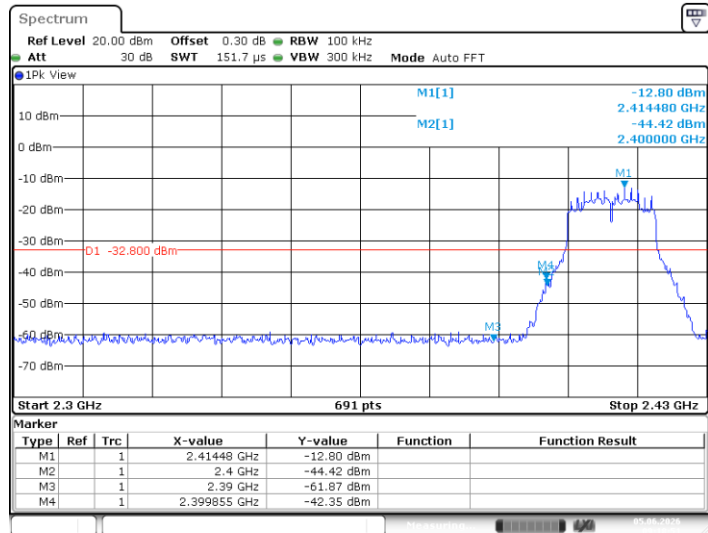
11B_Ant1_Low_2412



11B_Ant1_High_2462

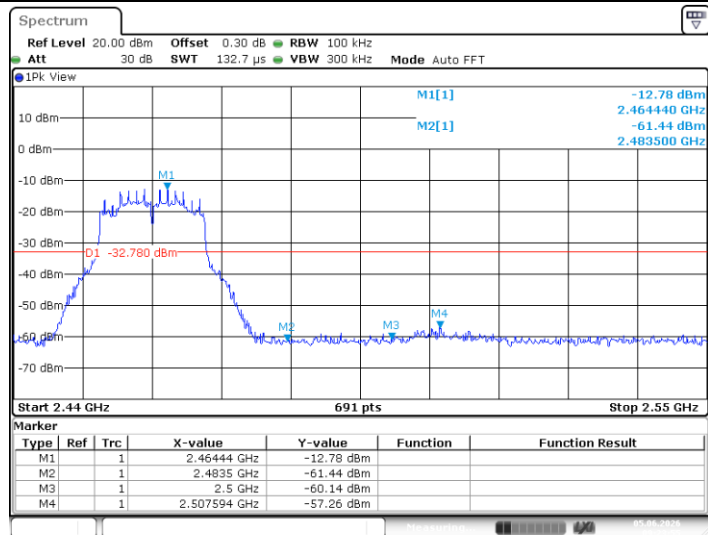


11G_Ant1_Low_2412



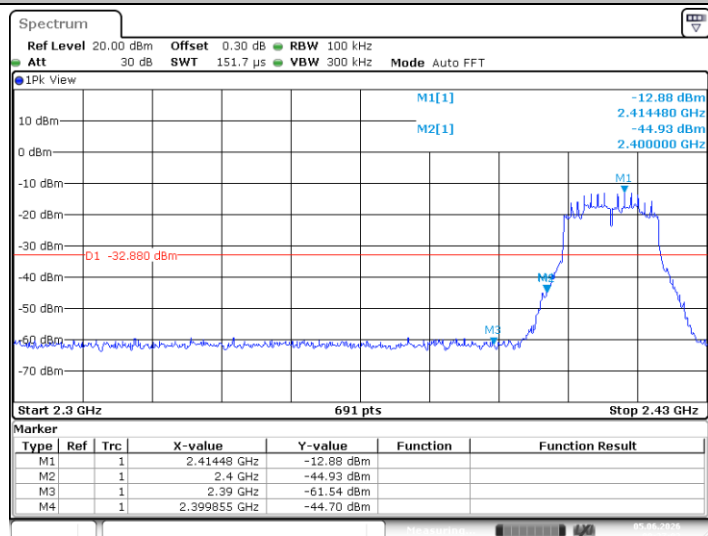
Date: 5.JUN.2026 09:18:51

11G_Ant1_High_2462



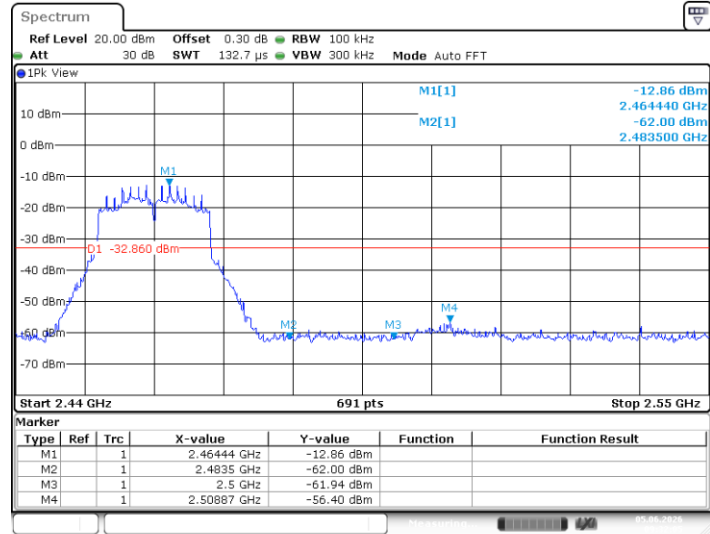
Date: 5.JUN.2026 09:23:54

11N20SISO_Ant1_Low_2412



Date: 5.JUN.2026 09:27:03

11N20SISO_Ant1_High_2462



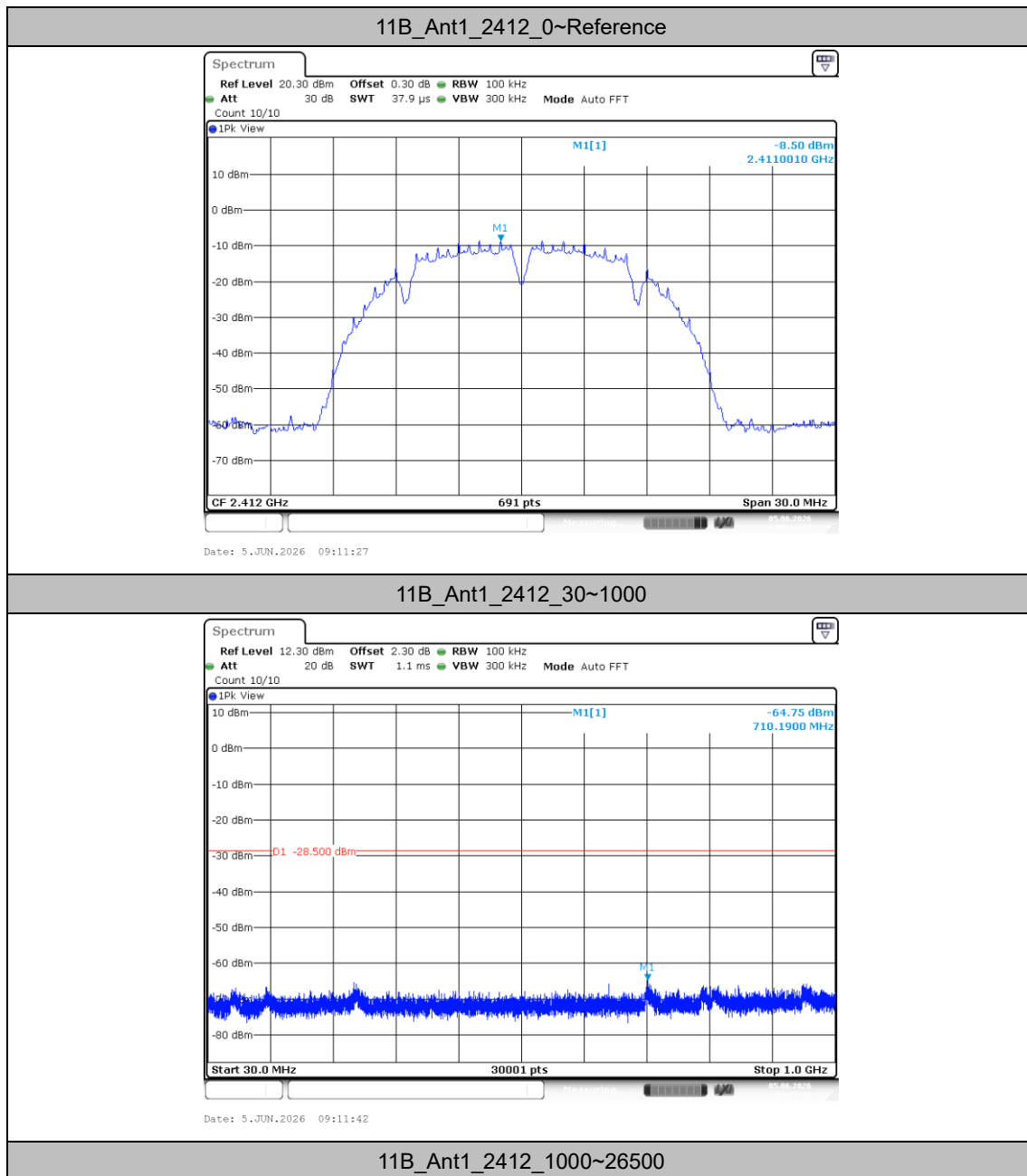
Date: 5.JUN.2026 09:32:05

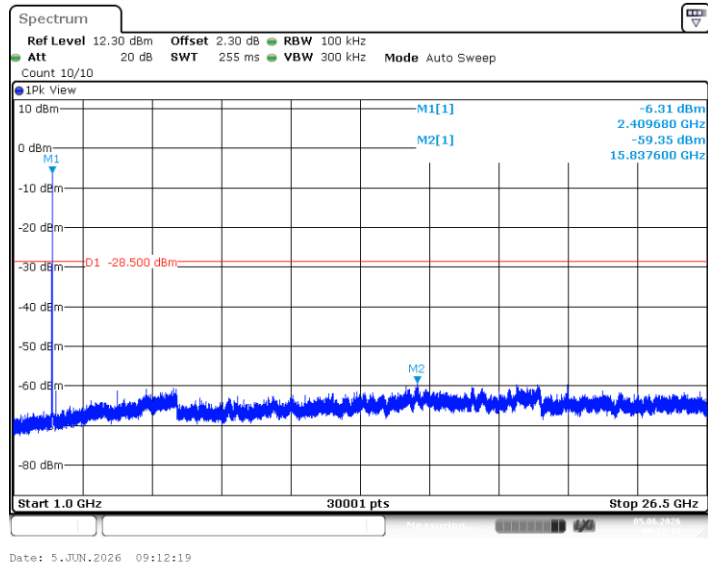
Appendix F: Conducted Spurious Emission

Test Result

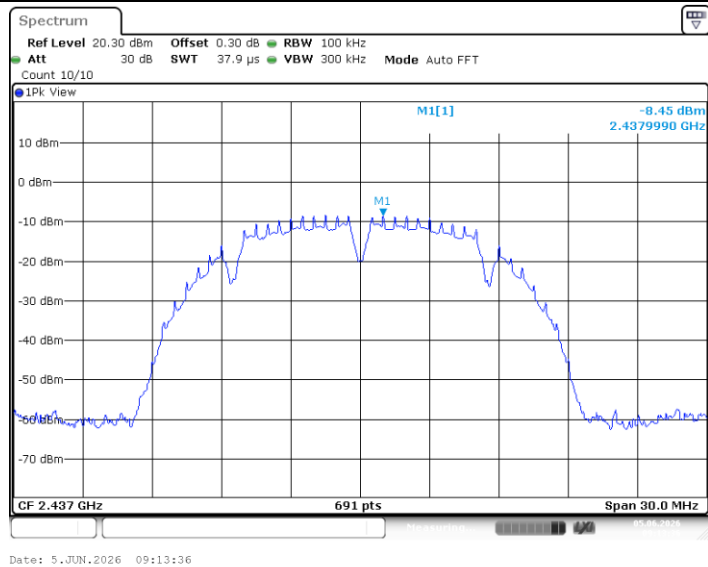
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-8.50	-8.50	---	PASS
			30~1000	-8.50	-64.75	≤-28.5	PASS
			1000~26500	-8.50	-59.35	≤-28.5	PASS
		2437	Reference	-8.45	-8.45	---	PASS
			30~1000	-8.45	-63.93	≤-28.45	PASS
			1000~26500	-8.45	-59.62	≤-28.45	PASS
		2462	Reference	-7.95	-7.95	---	PASS
			30~1000	-7.95	-64.89	≤-27.95	PASS
			1000~26500	-7.95	-59.05	≤-27.95	PASS
11G	Ant1	2412	Reference	-12.68	-12.68	---	PASS
			30~1000	-12.68	-64.69	≤-32.68	PASS
			1000~26500	-12.68	-59.81	≤-32.68	PASS
		2437	Reference	-12.58	-12.58	---	PASS
			30~1000	-12.58	-64.33	≤-32.58	PASS
			1000~26500	-12.58	-59.17	≤-32.58	PASS
		2462	Reference	-12.69	-12.69	---	PASS
			30~1000	-12.69	-64.96	≤-32.69	PASS
			1000~26500	-12.69	-59.03	≤-32.69	PASS
11N20SISO	Ant1	2412	Reference	-12.95	-12.95	---	PASS
			30~1000	-12.95	-64.88	≤-32.95	PASS
			1000~26500	-12.95	-59.89	≤-32.95	PASS
		2437	Reference	-12.61	-12.61	---	PASS
			30~1000	-12.61	-64.99	≤-32.61	PASS
			1000~26500	-12.61	-58.98	≤-32.61	PASS
		2462	Reference	-12.65	-12.65	---	PASS
			30~1000	-12.65	-64.25	≤-32.65	PASS
			1000~26500	-12.65	-59.54	≤-32.65	PASS

Test Graphs

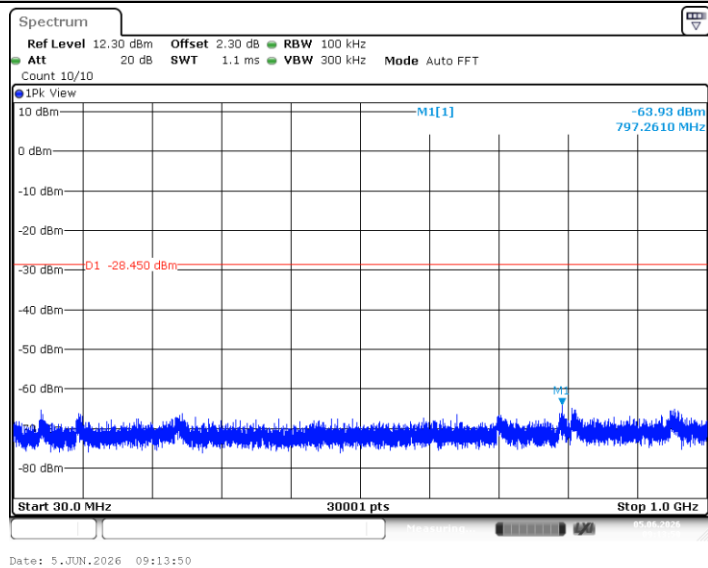




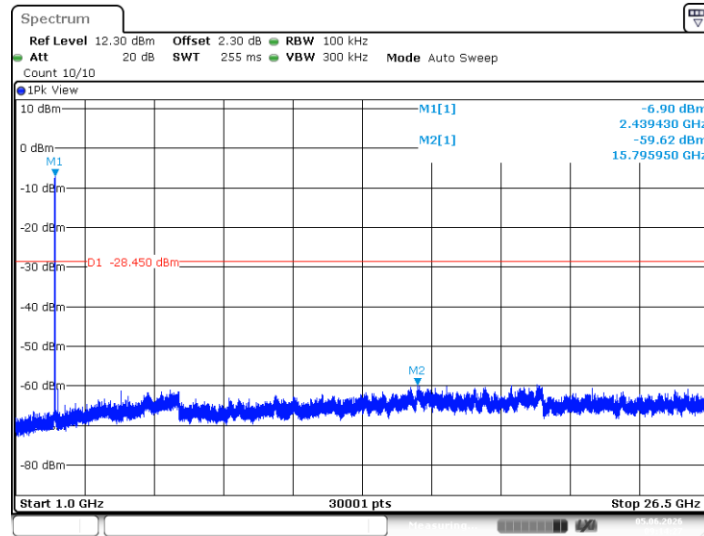
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

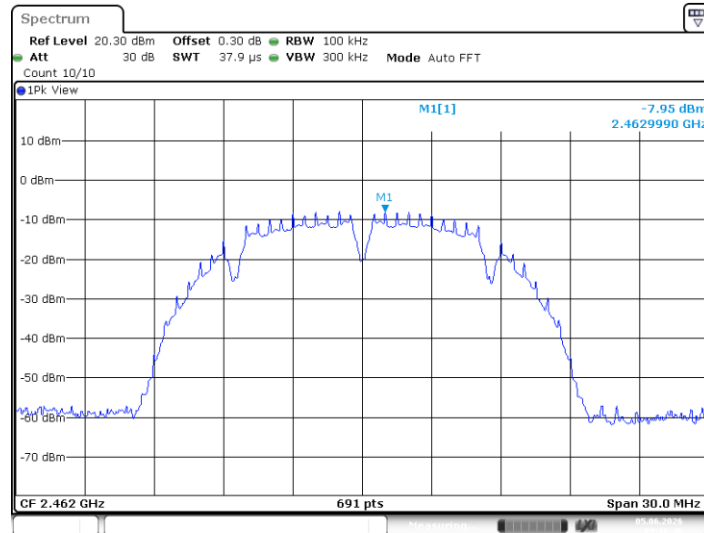


11B_Ant1_2437_1000~26500



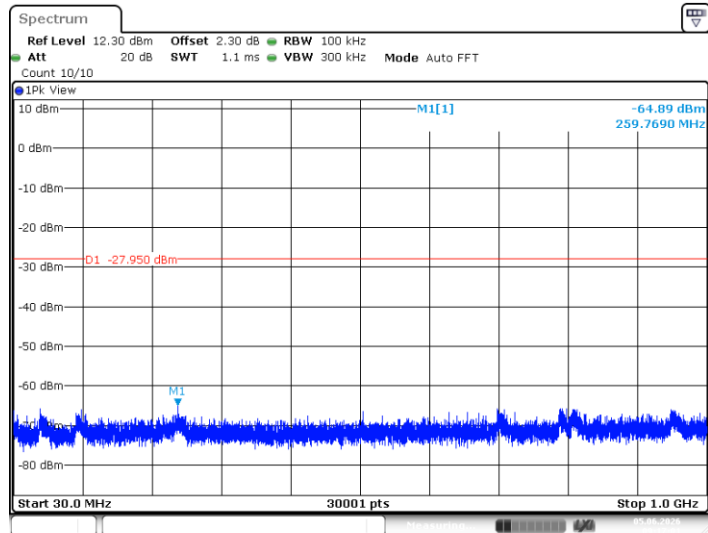
Date: 5.JUN.2026 09:14:28

11B_Ant1_2462_0~Reference



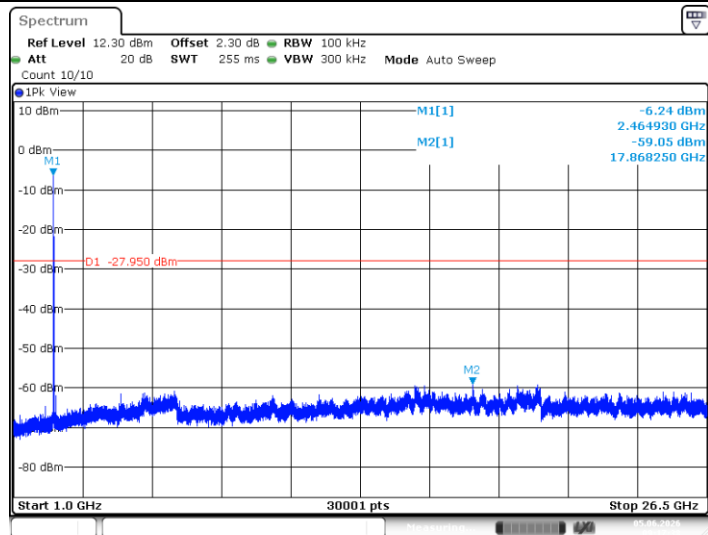
Date: 5.JUN.2026 09:16:46

11B_Ant1_2462_30~1000



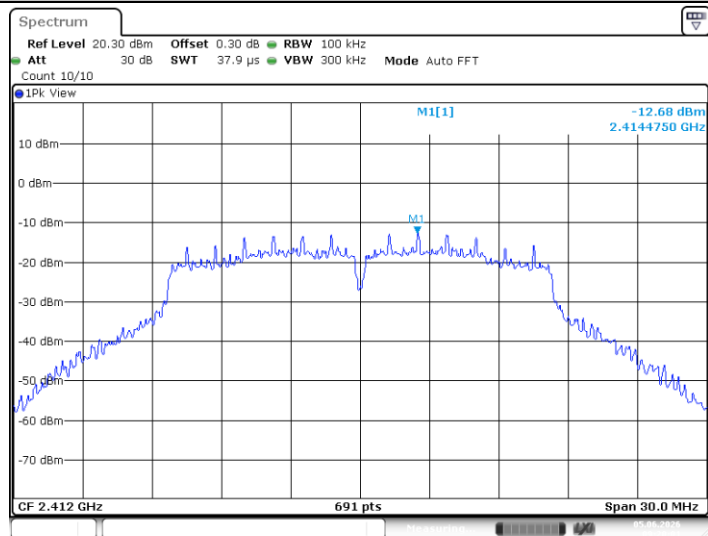
Date: 5.JUN.2026 09:17:01

11B_Ant1_2462_1000~26500



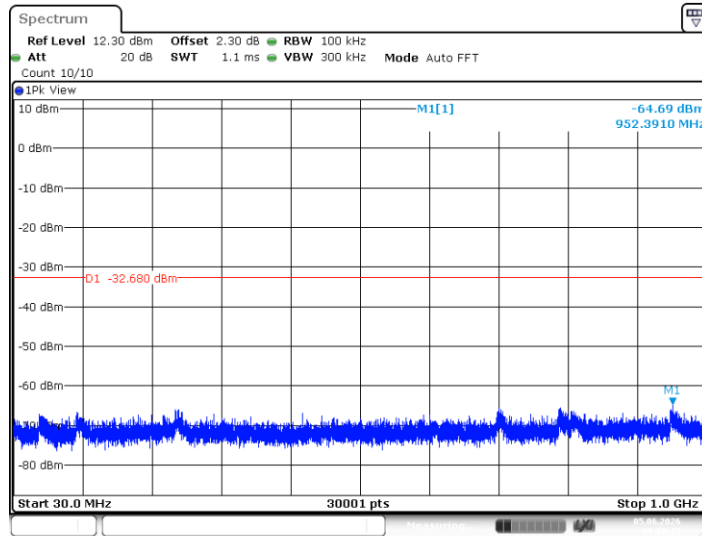
Date: 5.JUN.2026 09:17:38

11G_Ant1_2412_0~Reference



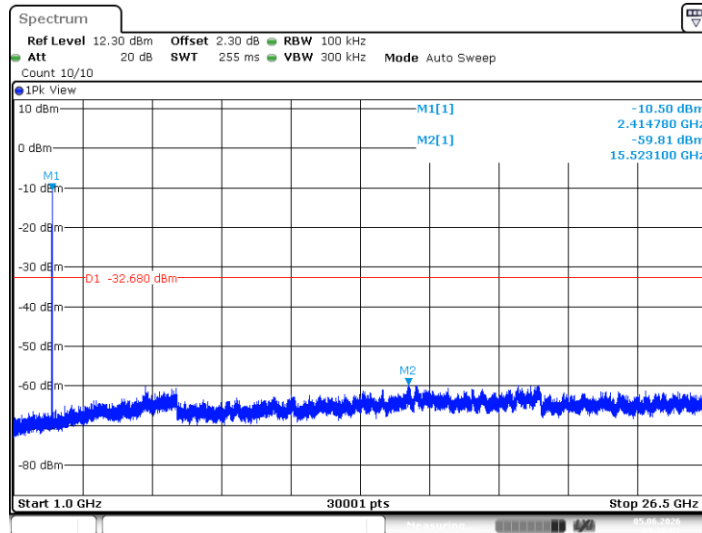
Date: 5.JUN.2026 09:20:01

11G_Ant1_2412_30~1000



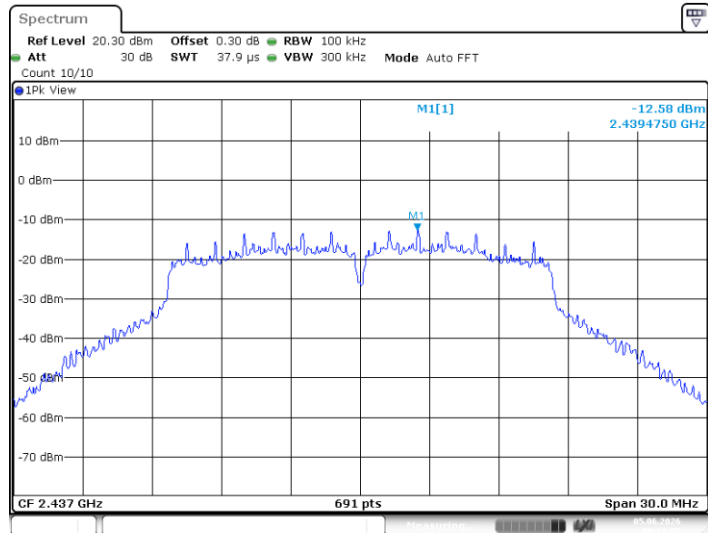
Date: 5.JUN.2026 09:20:15

11G_Ant1_2412_1000~26500



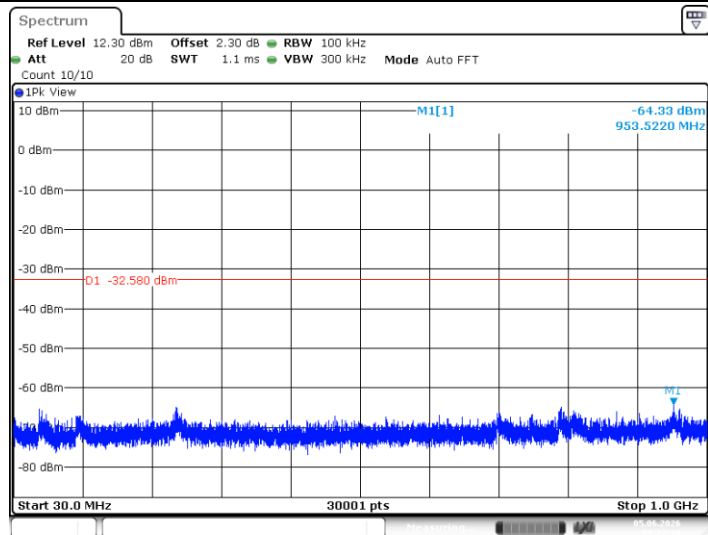
Date: 5.JUN.2026 09:20:52

11G_Ant1_2437_0~Reference



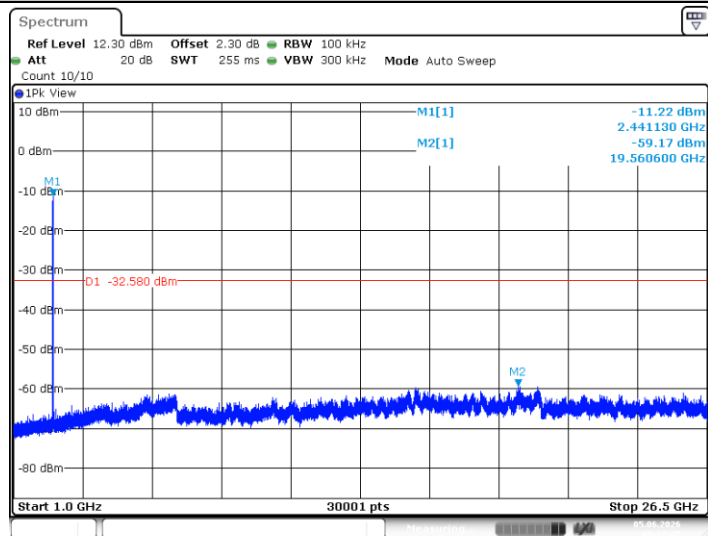
Date: 5.JUN.2026 09:21:56

11G_Ant1_2437_30~1000



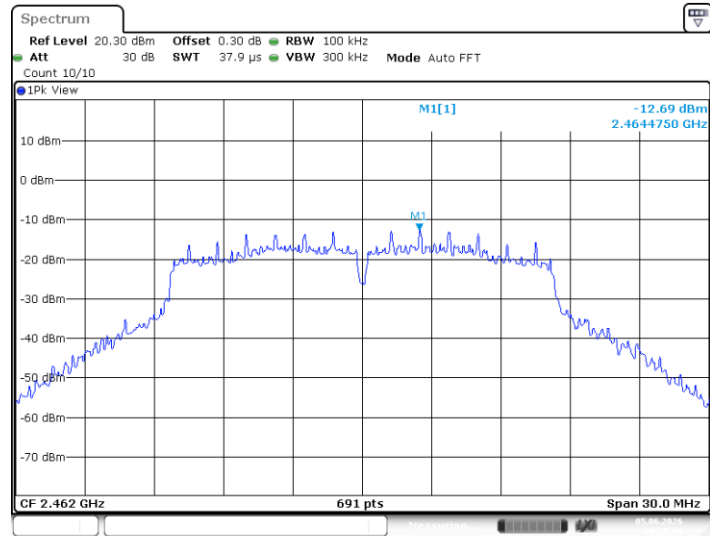
Date: 5.JUN.2026 09:22:10

11G_Ant1_2437_1000~26500



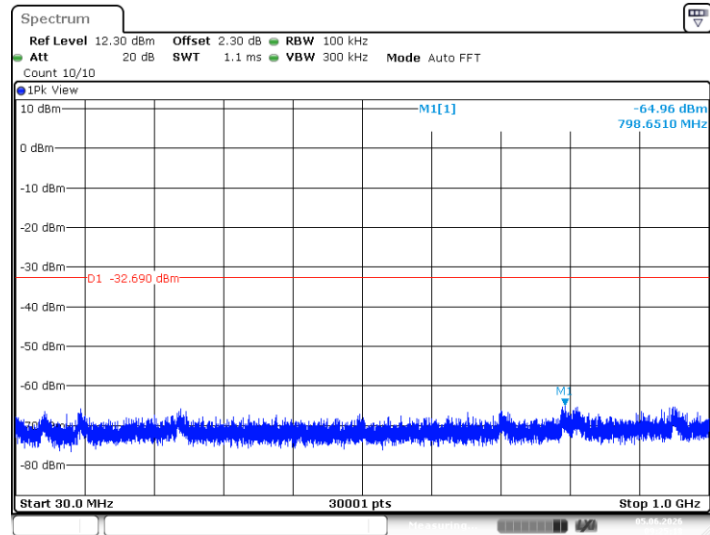
Date: 5.JUN.2026 09:22:47

11G_Ant1_2462_0~Reference



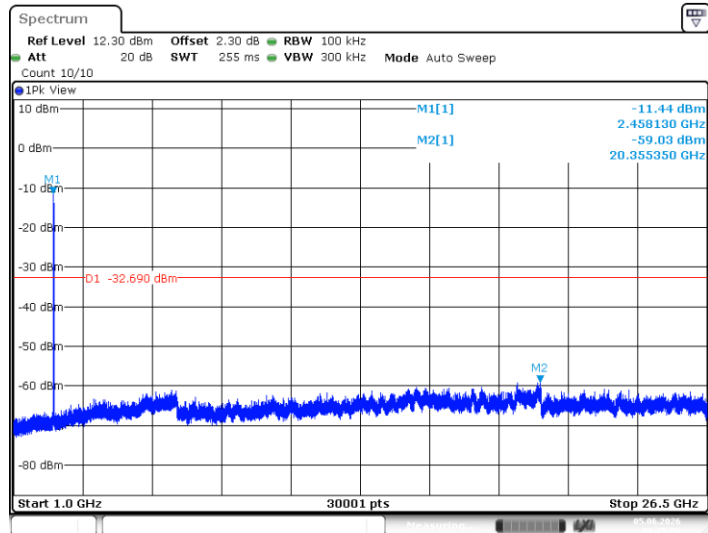
Date: 5.JUN.2026 09:25:04

11G_Ant1_2462_30~1000



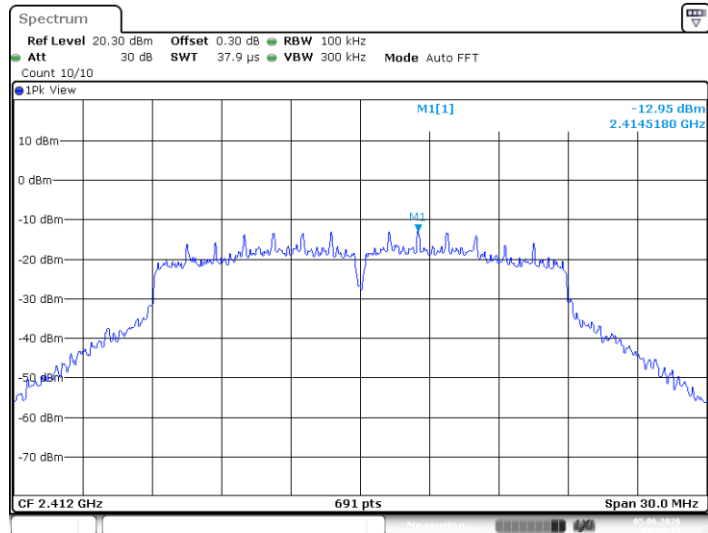
Date: 5.JUN.2026 09:25:18

11G_Ant1_2462_1000~26500



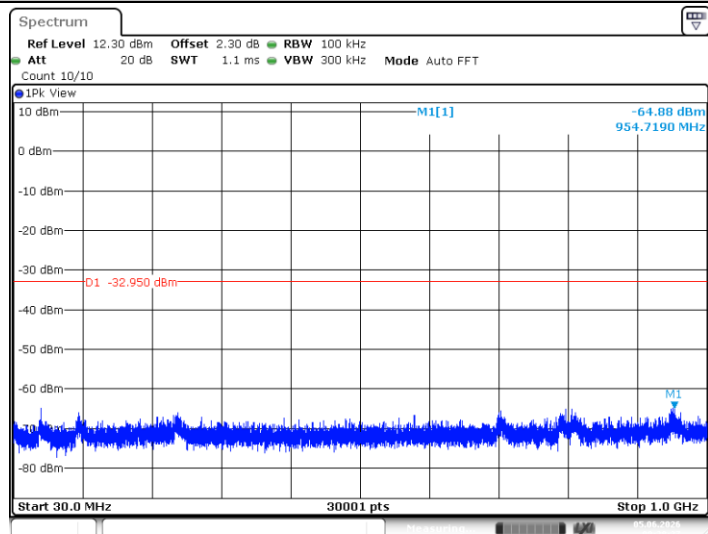
Date: 5.JUN.2026 09:25:56

11N20SISO_Ant1_2412_0~Reference



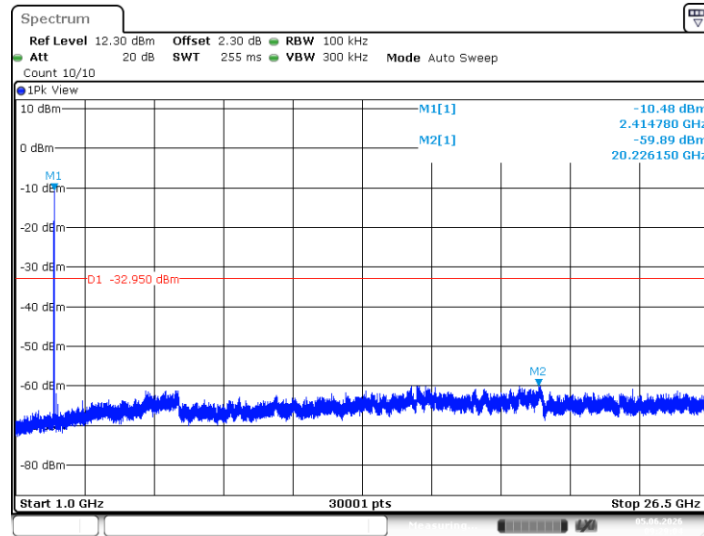
Date: 5.JUN.2026 09:28:13

11N20SISO_Ant1_2412_30~1000



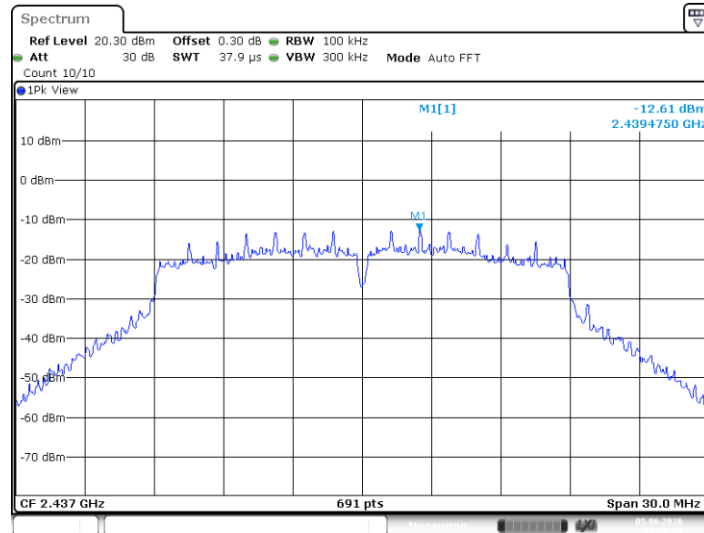
Date: 5.JUN.2026 09:28:27

11N20SISO_Ant1_2412_1000~26500



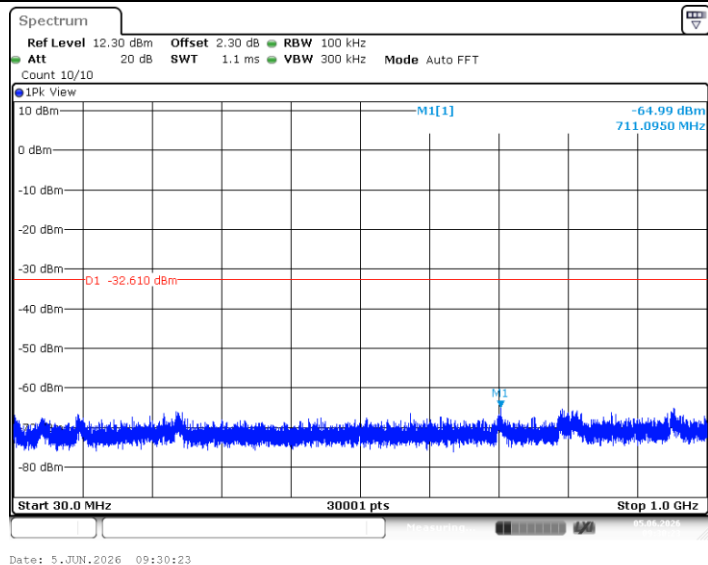
Date: 5.JUN.2026 09:29:05

11N20SISO_Ant1_2437_0~Reference

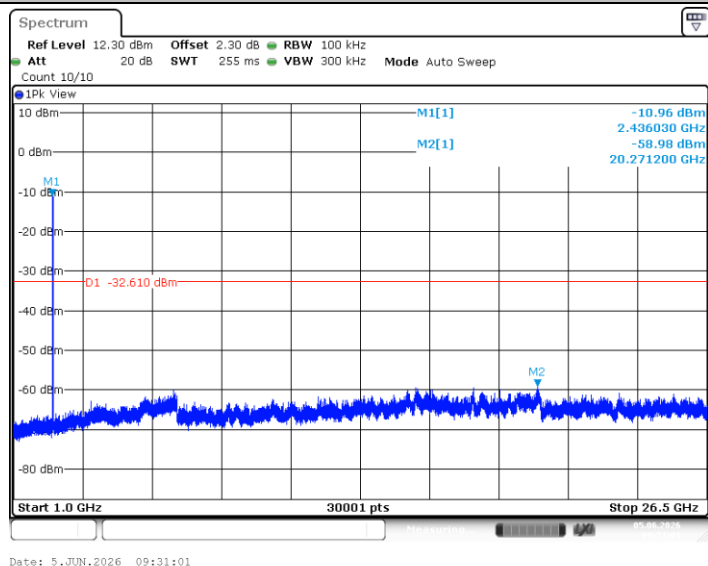


Date: 5.JUN.2026 09:30:09

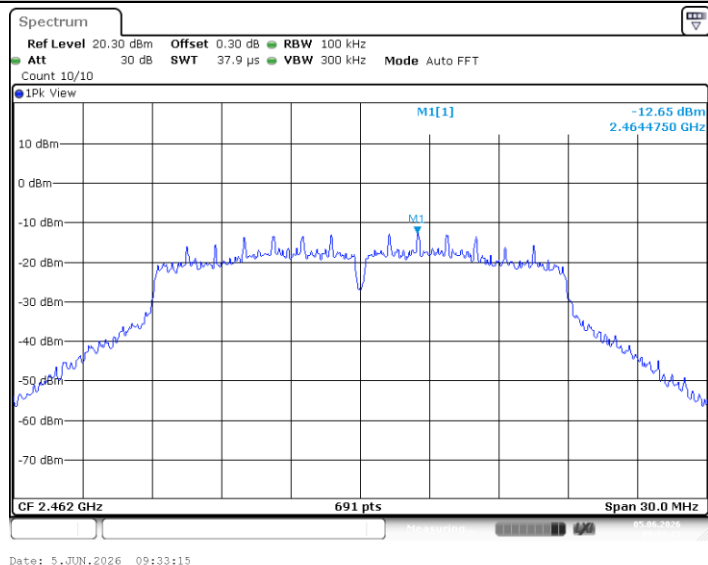
11N20SISO_Ant1_2437_30~1000



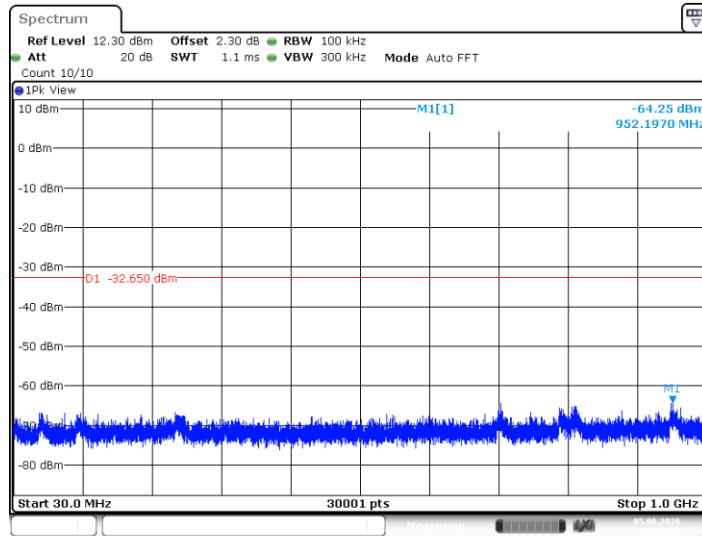
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference

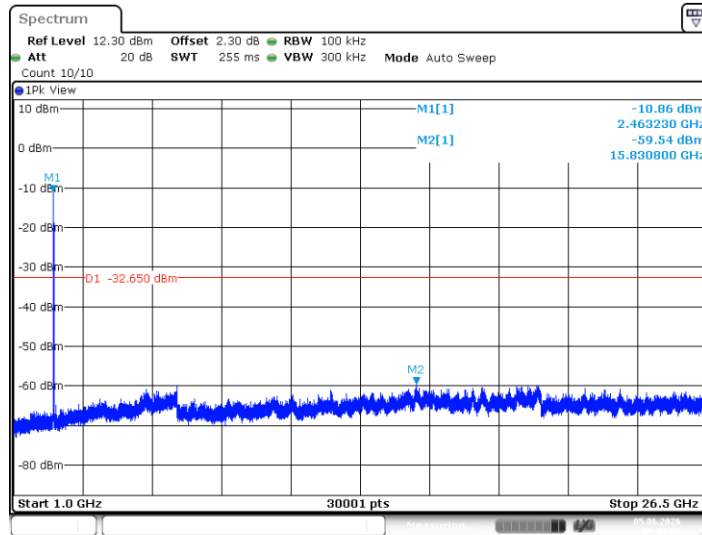


11N20SISO_Ant1_2462_30~1000



Date: 5.JUN.2026 09:33:29

11N20SISO_Ant1_2462_1000~26500



Date: 5.JUN.2026 09:34:07

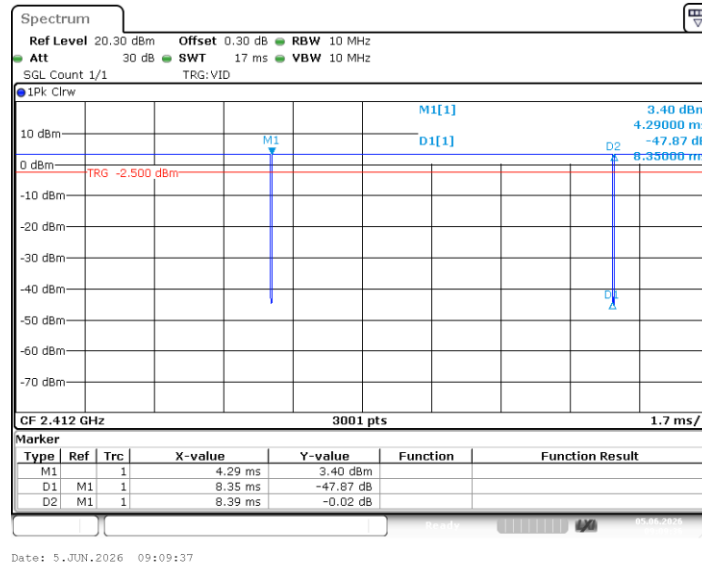
Appendix G: Duty Cycle

Test Result

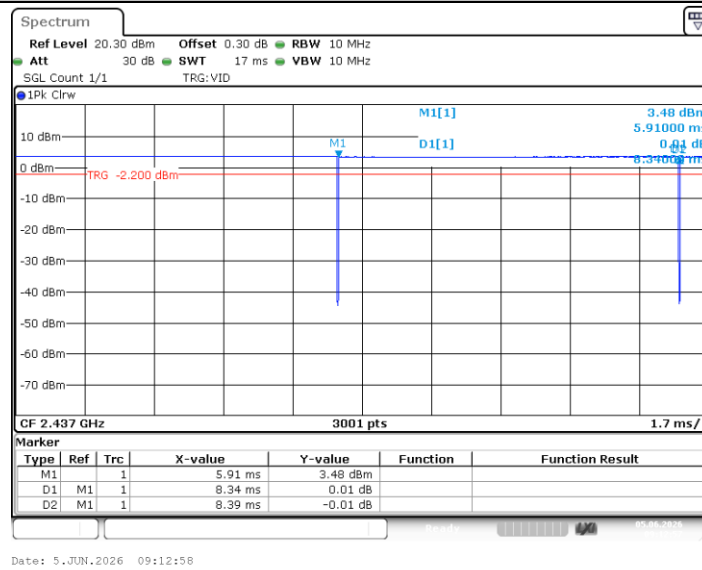
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor [dB]	T Factor [dB]
11B	Ant1	2412	8.35	8.39	99.52	0.02	0.12
		2437	8.34	8.39	99.40	0.03	0.12
		2462	8.35	8.39	99.52	0.02	0.12
11G	Ant1	2412	0.15	0.19	78.95	1.03	6.67
		2437	0.15	0.19	78.95	1.03	6.67
		2462	0.15	0.20	75.00	1.25	6.67
11N20SISO	Ant1	2412	0.18	0.22	81.82	0.87	5.56
		2437	0.18	0.22	81.82	0.87	5.56
		2462	0.18	0.22	81.82	0.87	5.56

Test Graphs

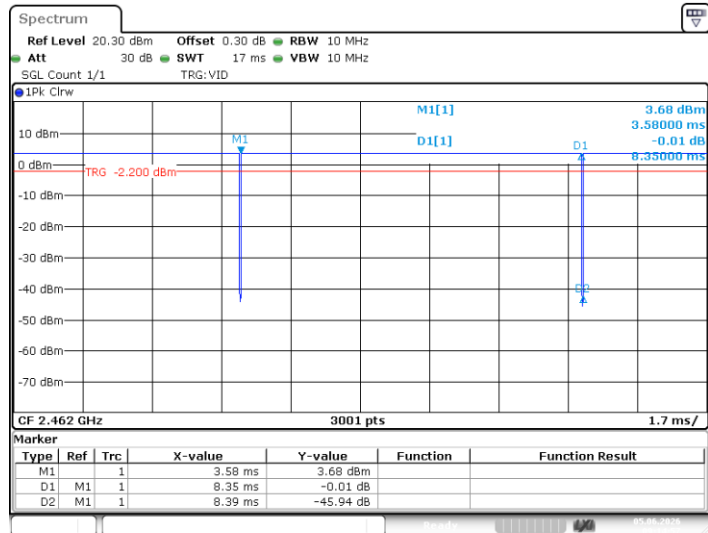
11B_Ant1_2412



11B_Ant1_2437

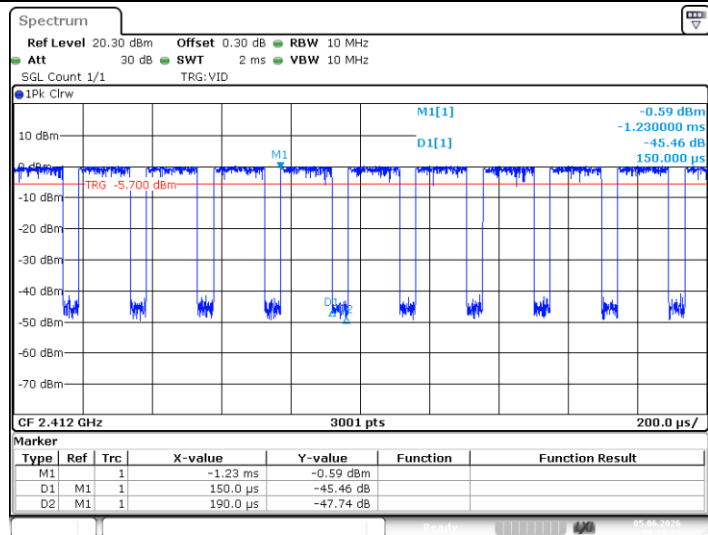


11B_Ant1_2462



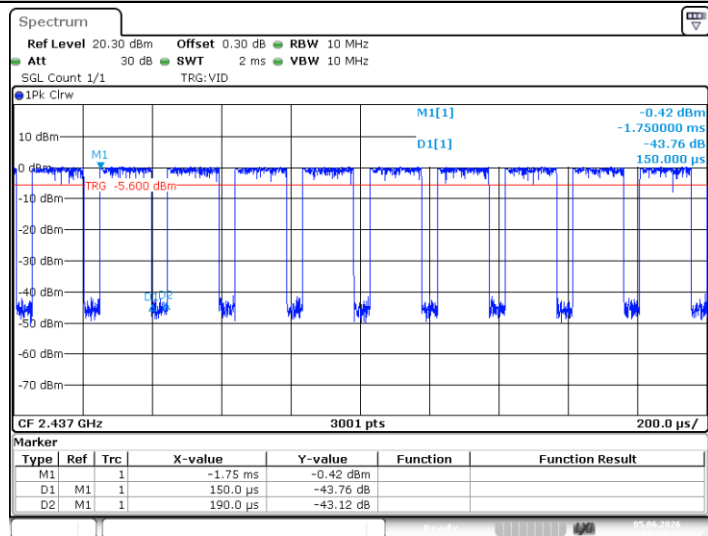
Date: 5.JUN.2026 09:14:56

11G_Ant1_2412



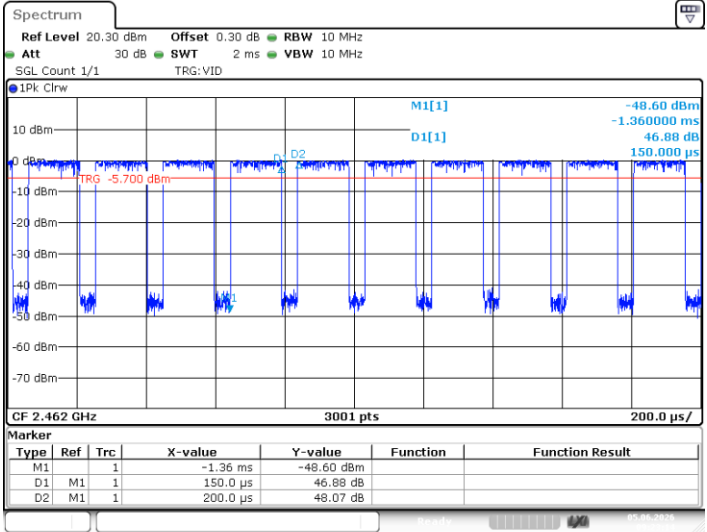
Date: 5.JUN.2026 09:18:11

11G_Ant1_2437



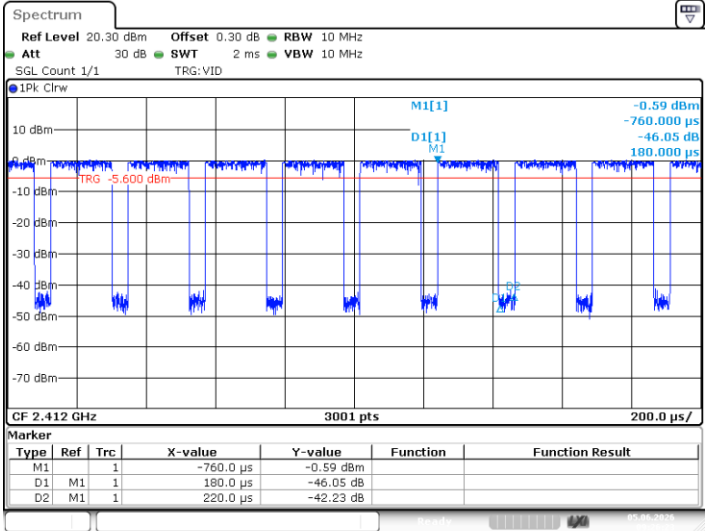
Date: 5.JUN.2026 09:21:16

11G_Ant1_2462



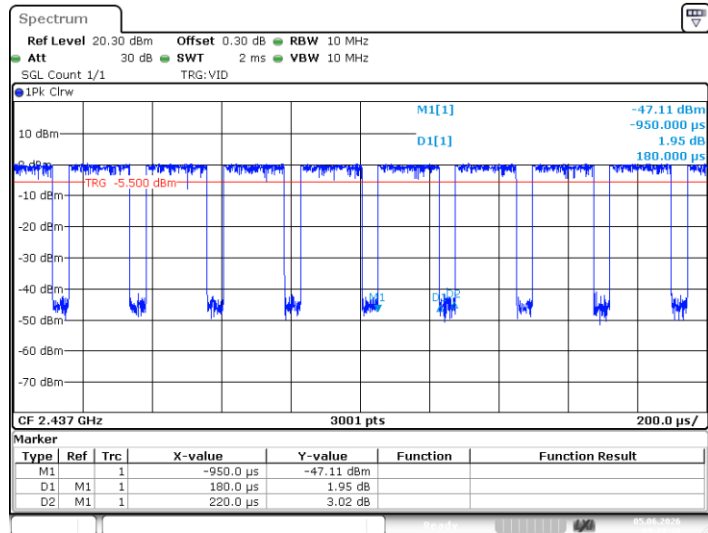
Date: 5.JUN.2026 09:23:13

11N20SISO_Ant1_2412



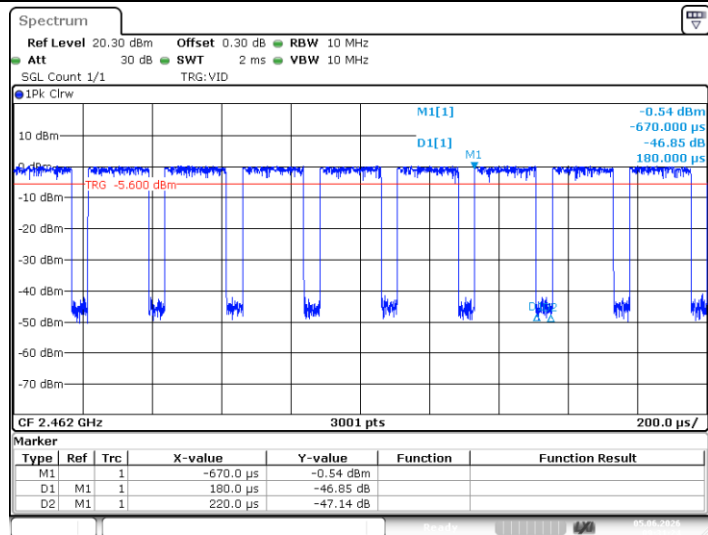
Date: 5.JUN.2026 09:26:23

11N20SISO_Ant1_2437



Date: 5.JUN.2026 09:29:29

11N20SISO_Ant1_2462



Date: 5.JUN.2026 09:31:24

Appendix H: Emissions in Restricted Bands

Test Result

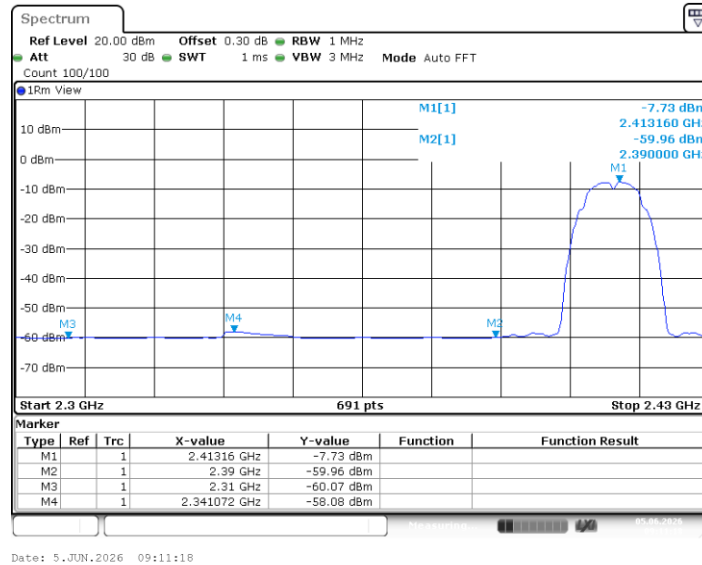
TestMod e	Antenn a	ChNam e	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-60.07	2.00	0.02	37.15	≤54	PASS
				AV	2341.072	-58.08	2.00	0.02	39.14	≤54	PASS
				AV	2390.000	-59.96	2.00	0.02	37.26	≤54	PASS
				Peak	2310.000	-49.23	2.00	0.00	47.97	≤74	PASS
				Peak	2342.768	-47.03	2.00	0.00	50.17	≤74	PASS
				Peak	2390.000	-49.43	2.00	0.00	47.77	≤74	PASS
		High	2462	AV	2483.500	-59.61	2.00	0.02	37.61	≤54	PASS
				AV	2495.159	-59.5	2.00	0.02	37.72	≤54	PASS
				AV	2500.000	-59.92	2.00	0.02	37.30	≤54	PASS
				Peak	2483.500	-48.03	2.00	0.00	49.17	≤74	PASS
				Peak	2483.522	-48.03	2.00	0.00	49.17	≤74	PASS
				Peak	2500.000	-48.53	2.00	0.00	48.67	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-60.12	2.00	1.03	38.11	≤54	PASS
				AV	2341.072	-58.07	2.00	1.03	40.16	≤54	PASS
				AV	2390.000	-60.11	2.00	1.03	38.12	≤54	PASS
				Peak	2310.000	-48.88	2.00	0.00	48.32	≤74	PASS
				Peak	2341.072	-46.91	2.00	0.00	50.29	≤74	PASS
				Peak	2390.000	-49.51	2.00	0.00	47.69	≤74	PASS
		High	2462	AV	2483.500	-59.78	2.00	1.25	38.67	≤54	PASS
				AV	2495.159	-59.64	2.00	1.25	38.81	≤54	PASS
				AV	2500.000	-59.93	2.00	1.25	38.52	≤54	PASS
				Peak	2483.500	-48.97	2.00	0.00	48.23	≤74	PASS
				Peak	2497.870	-47.61	2.00	0.00	49.59	≤74	PASS
				Peak	2500.000	-49.63	2.00	0.00	47.57	≤74	PASS
11N20SI SO	Ant1	Low	2412	AV	2310.000	-60.14	2.00	0.87	37.93	≤54	PASS
				AV	2340.319	-58.05	2.00	0.87	40.02	≤54	PASS
				AV	2390.000	-60.04	2.00	0.87	38.03	≤54	PASS
				Peak	2310.000	-49.65	2.00	0.00	47.55	≤74	PASS
				Peak	2340.884	-46.9	2.00	0.00	50.30	≤74	PASS
				Peak	2390.000	-48.72	2.00	0.00	48.48	≤74	PASS
		High	2462	AV	2483.500	-59.72	2.00	0.87	38.35	≤54	PASS
				AV	2495.319	-59.63	2.00	0.87	38.44	≤54	PASS
				AV	2500.000	-59.96	2.00	0.87	38.11	≤54	PASS
				Peak	2483.500	-48.85	2.00	0.00	48.35	≤74	PASS
				Peak	2493.565	-47.57	2.00	0.00	49.63	≤74	PASS
				Peak	2500.000	-48.26	2.00	0.00	48.94	≤74	PASS

Note:

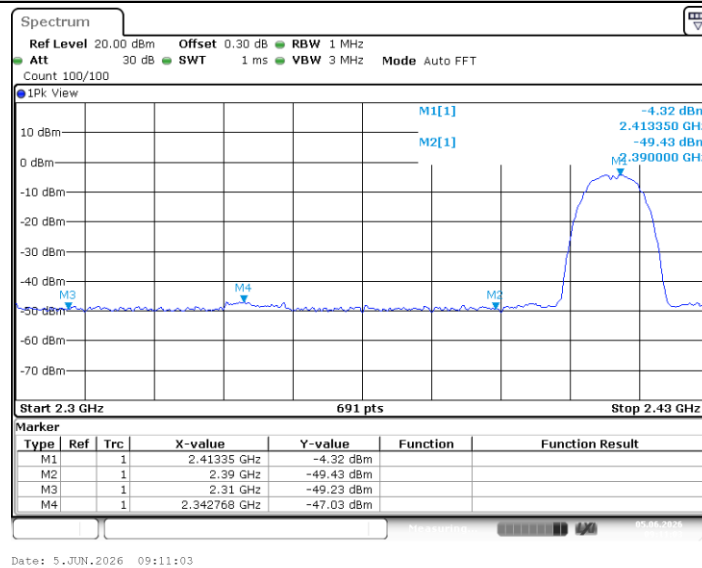
1. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

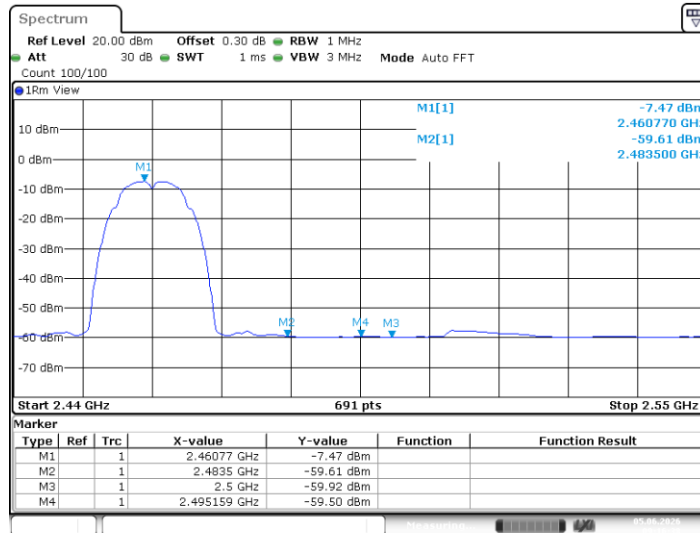
11B_Ant1_Low_2412_AV



11B_Ant1_Low_2412_Peak

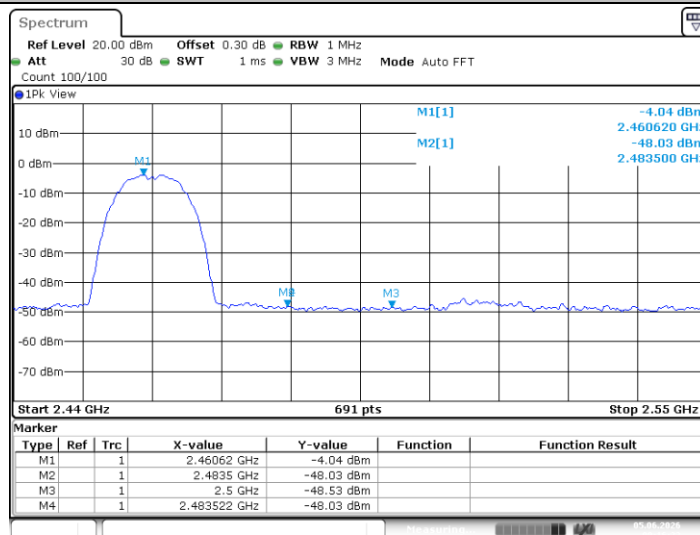


11B_Ant1_High_2462_AV



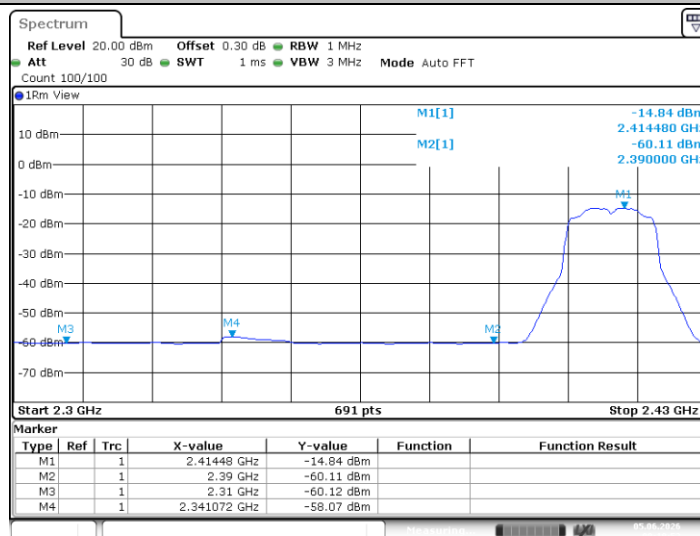
Date: 5.JUN.2026 09:16:37

11B_Ant1_High_2462_Peak



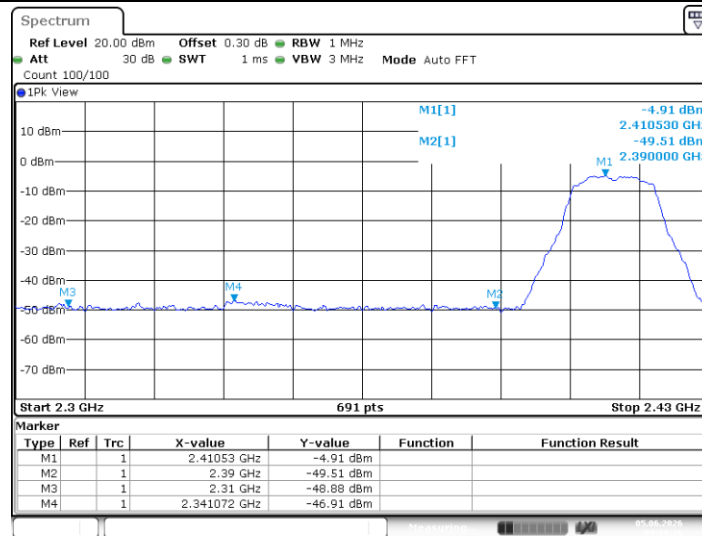
Date: 5.JUN.2026 09:16:22

11G_Ant1_Low_2412_AV



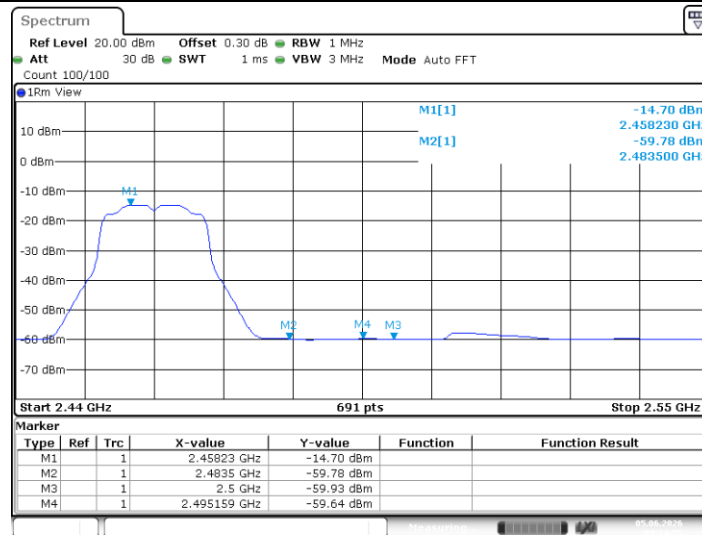
Date: 5.JUN.2026 09:19:51

11G_Ant1_Low_2412_Peak



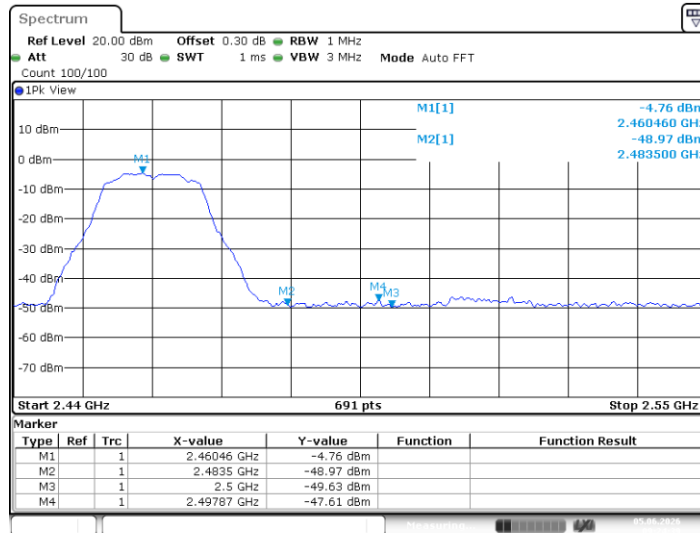
Date: 5.JUN.2026 09:19:36

11G_Ant1_High_2462_AV



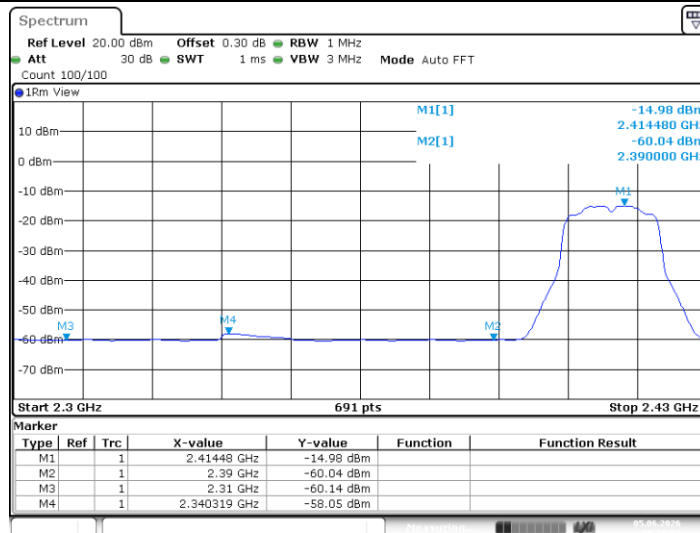
Date: 5.JUN.2026 09:24:55

11G_Ant1_High_2462_Peak



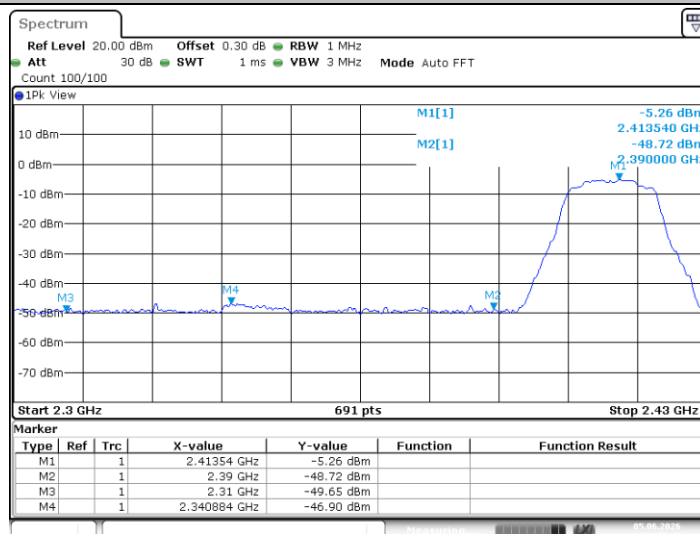
Date: 5.JUN.2026 09:24:40

11N20SISO_Ant1_Low_2412_AV



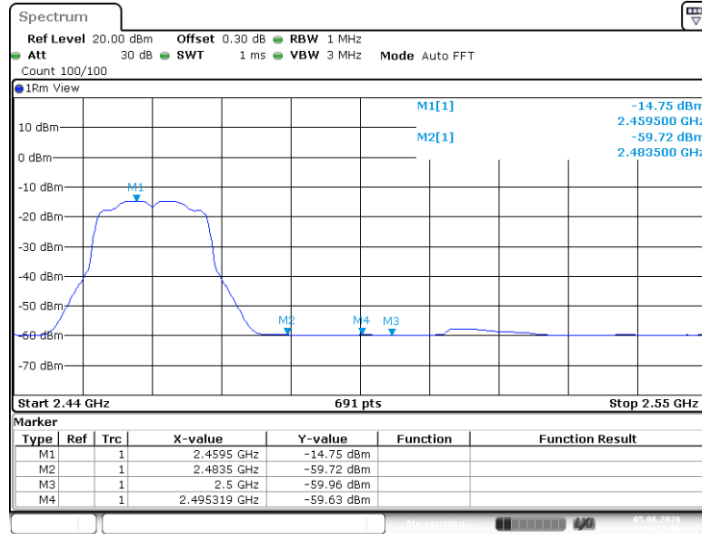
Date: 5.JUN.2026 09:28:04

11N20SISO_Ant1_Low_2412_Peak



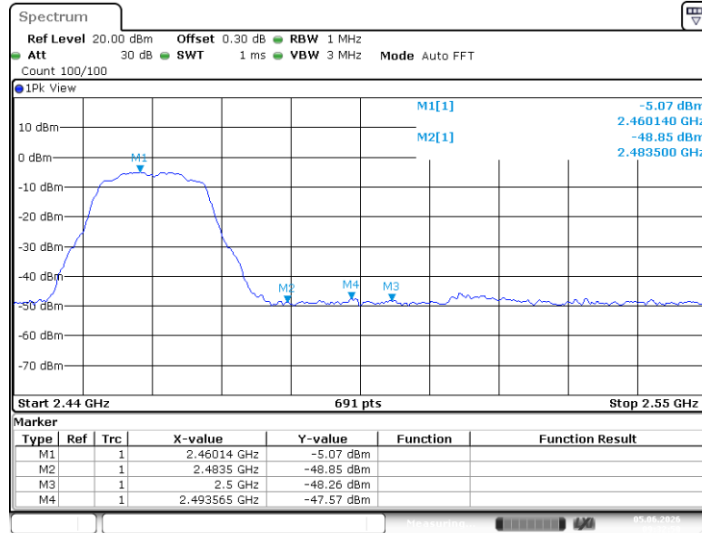
Date: 5.JUN.2026 09:27:49

11N20SISO_Ant1_High_2462_AV



Date: 5.JUN.2026 09:33:05

11N20SISO_Ant1_High_2462_Peak



Date: 5.JUN.2026 09:32:50

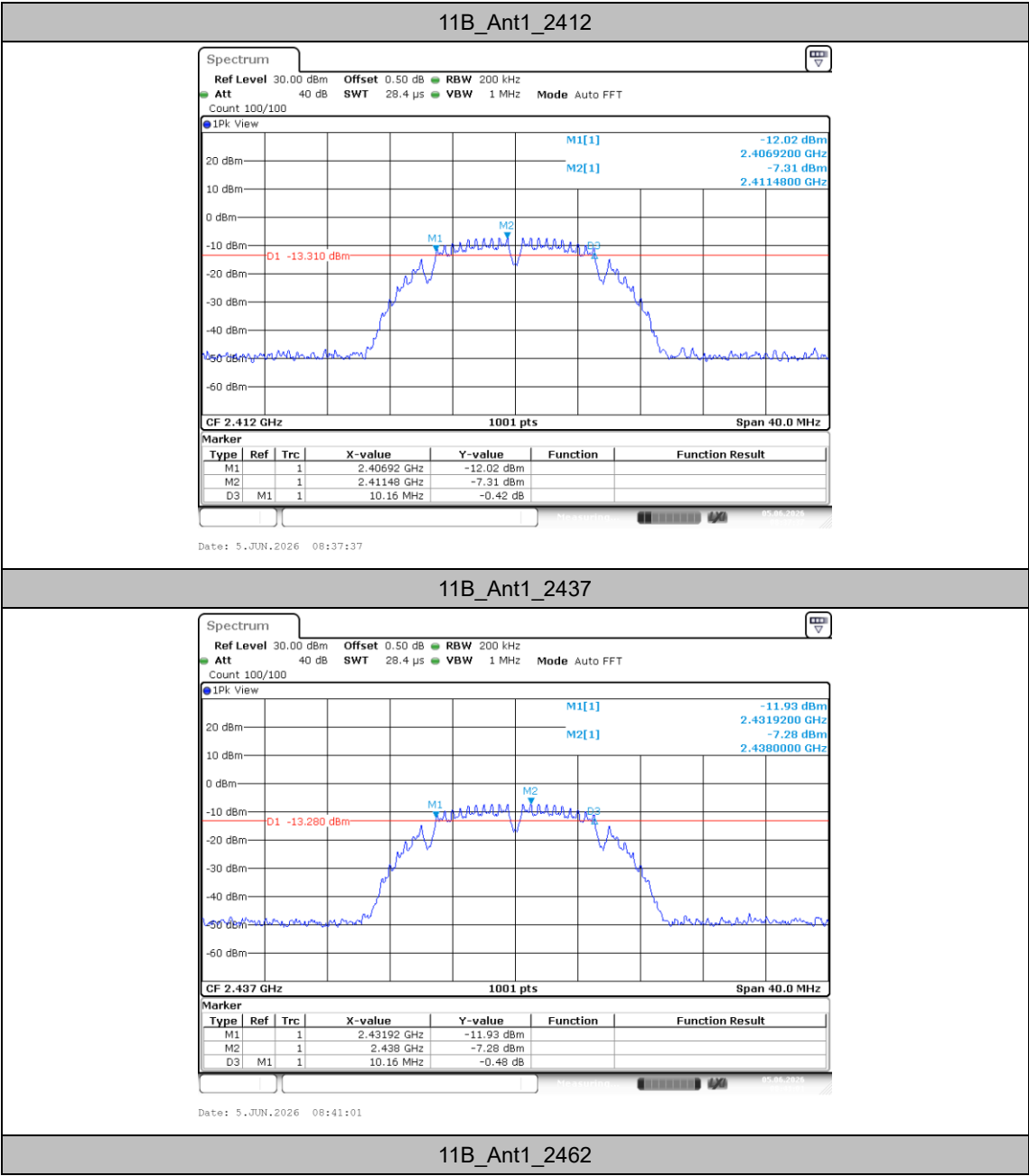
FCC Appendix RF Test Data for 2.4GWIFI module ATBM6132

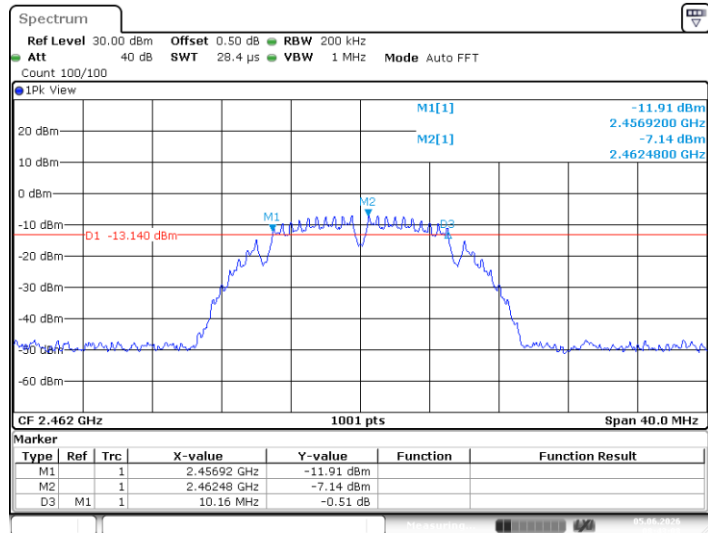
Appendix A: DTS Bandwidth

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	15.84	2404.08	2419.92	0.5	PASS
		2437	15.76	2429.20	2444.96	0.5	PASS
		2462	15.20	2454.40	2469.60	0.5	PASS
11N20SISO	Ant1	2412	16.36	2404.00	2420.36	0.5	PASS
		2437	15.60	2429.40	2445.00	0.5	PASS
		2462	16.00	2454.40	2470.40	0.5	PASS

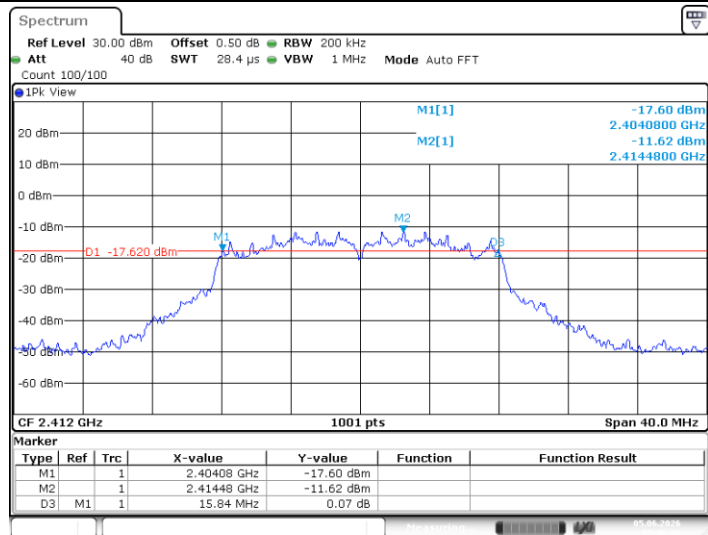
Test Graphs





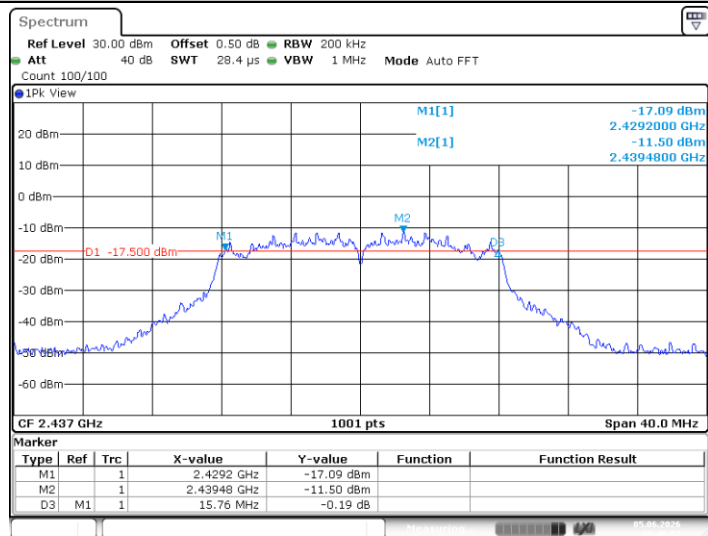
Date: 5.JUN.2026 08:43:08

11G_Ant1_2412



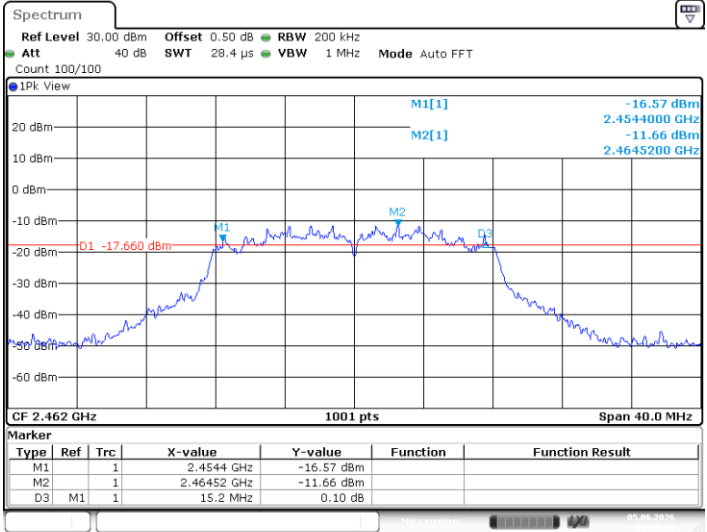
Date: 5.JUN.2026 08:46:49

11G_Ant1_2437



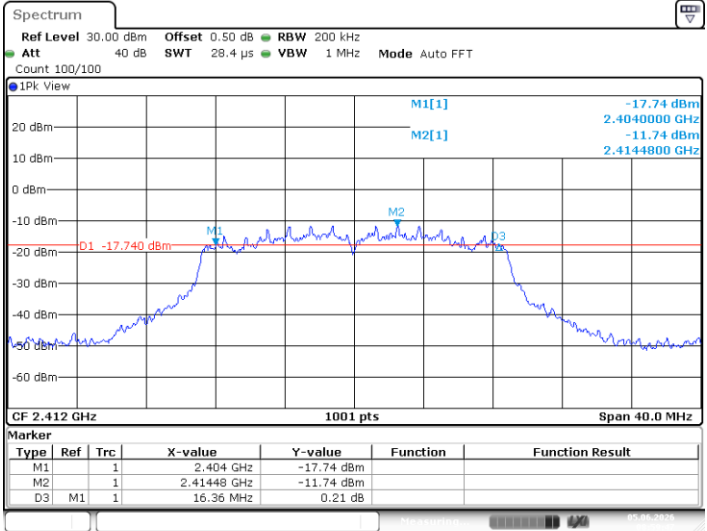
Date: 5.JUN.2026 08:49:57

11G_Ant1_2462



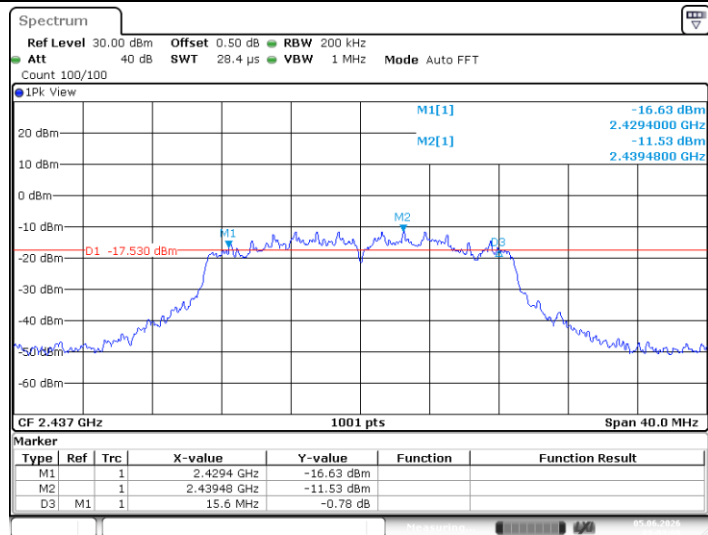
Date: 5.JUN.2026 08:56:16

11N20SISO_Ant1_2412



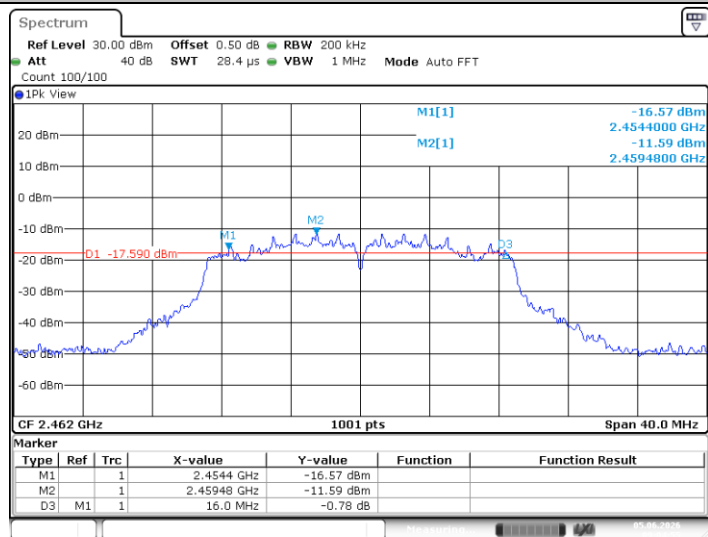
Date: 5.JUN.2026 08:59:47

11N20SISO_Ant1_2437



Date: 5.JUN.2026 09:03:01

11N20SISO_Ant1_2462



Date: 5.JUN.2026 09:04:55

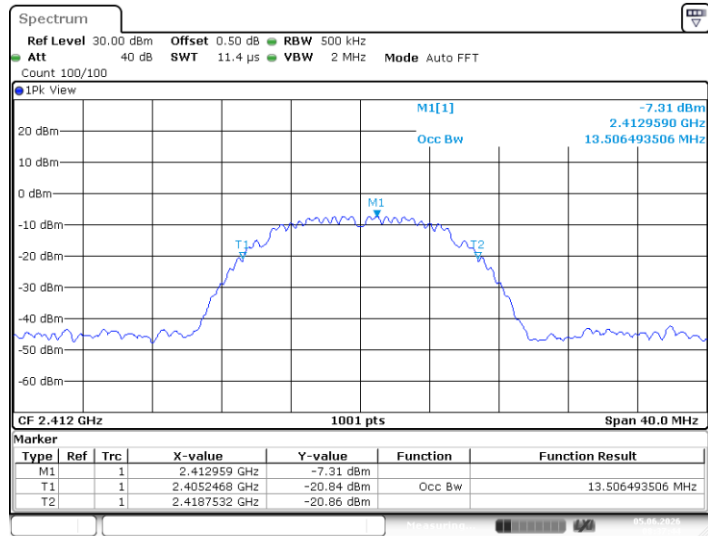
Appendix B: Occupied Channel Bandwidth

Test Result

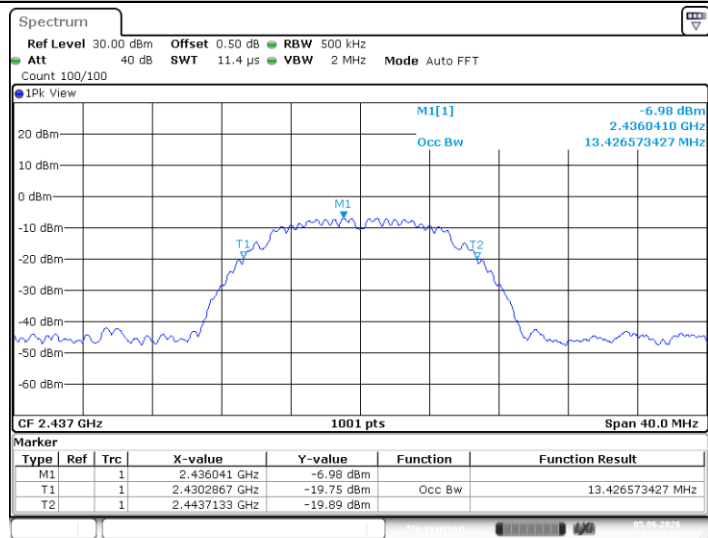
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.506	2405.2468	2418.7532	---	---
		2437	13.427	2430.2867	2443.7133	---	---
		2462	13.427	2455.2867	2468.7133	---	---
11G	Ant1	2412	16.863	2403.4486	2420.3117	---	---
		2437	16.823	2428.5684	2445.3916	---	---
		2462	17.103	2453.4486	2470.5514	---	---
11N20SISO	Ant1	2412	17.822	2403.1688	2420.9910	---	---
		2437	17.902	2428.0490	2445.9510	---	---
		2462	17.982	2453.0090	2470.9910	---	---

Test Graphs

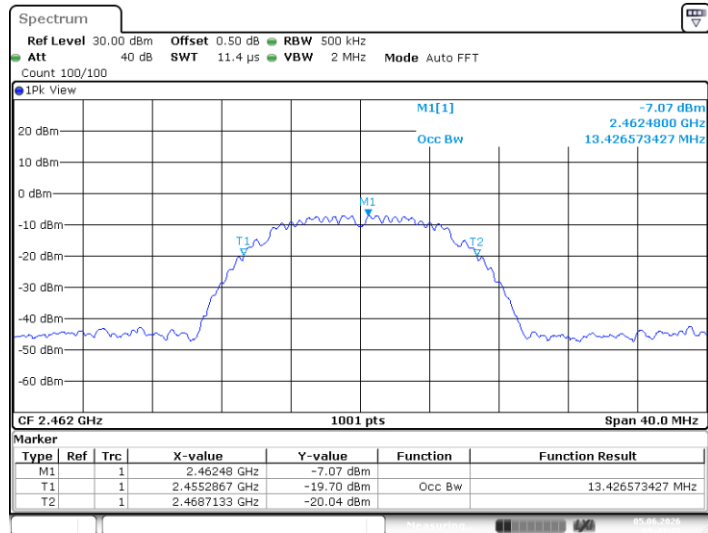
11B_Ant1_2412



11B_Ant1_2437

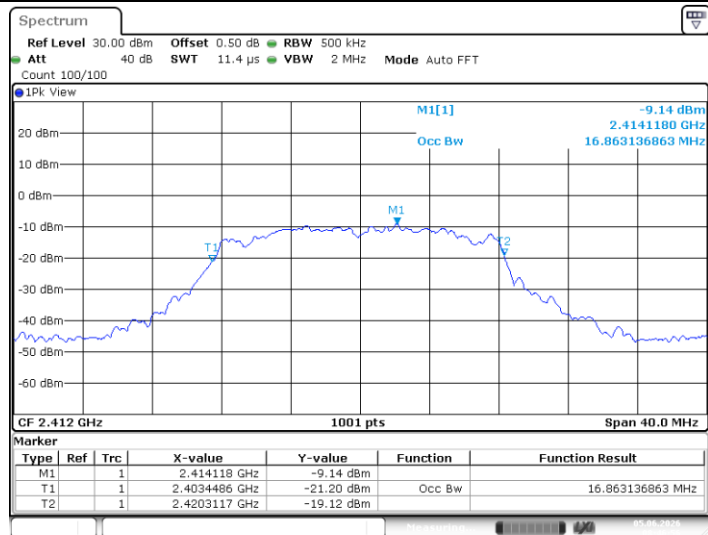


11B_Ant1_2462



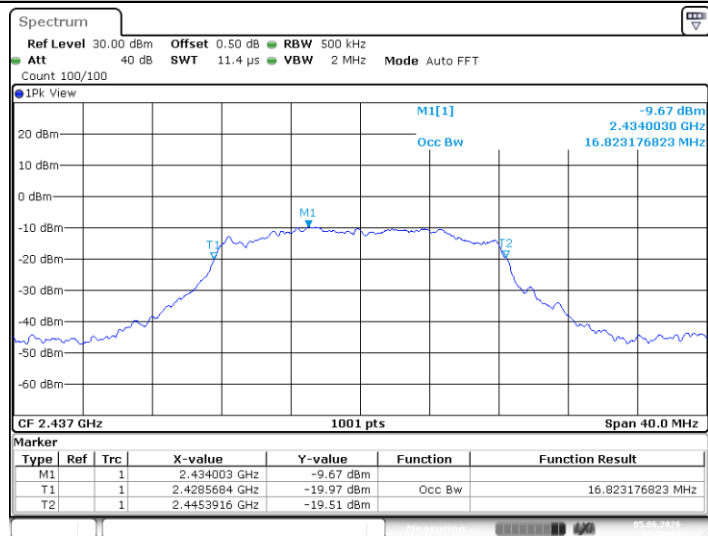
Date: 5.JUN.2026 08:43:15

11G_Ant1_2412



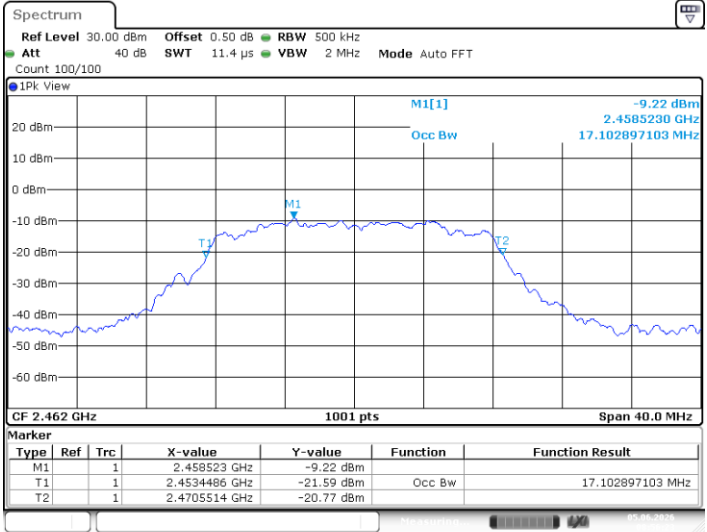
Date: 5.JUN.2026 08:46:56

11G_Ant1_2437

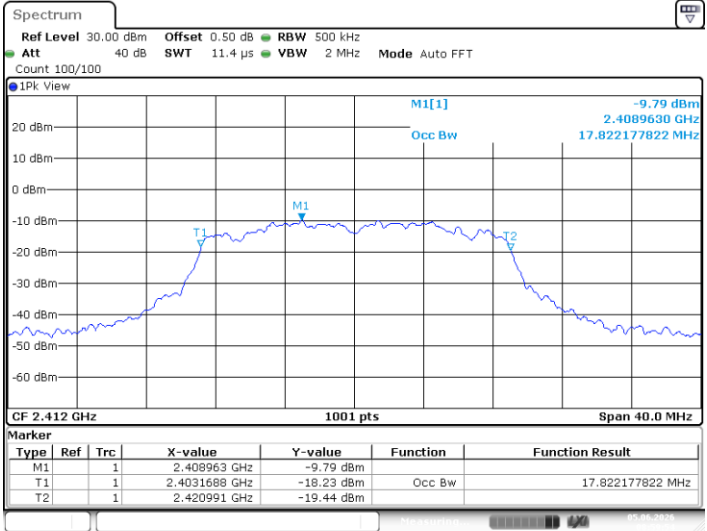


Date: 5.JUN.2026 08:50:04

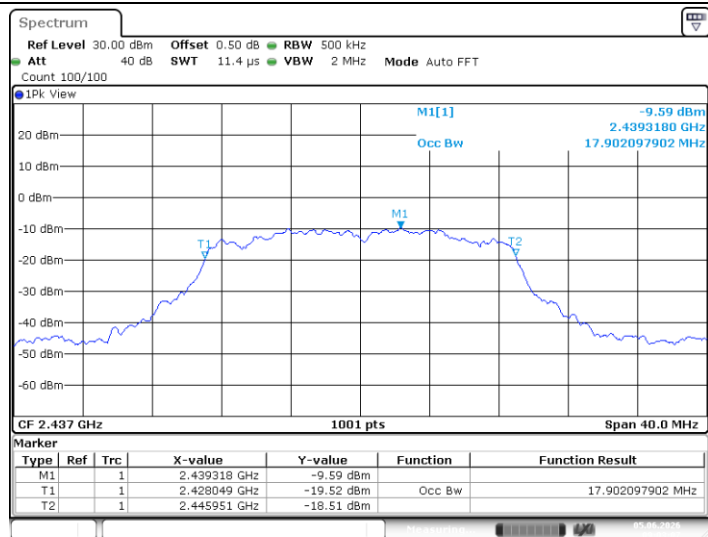
11G_Ant1_2462



11N20SISO_Ant1_2412

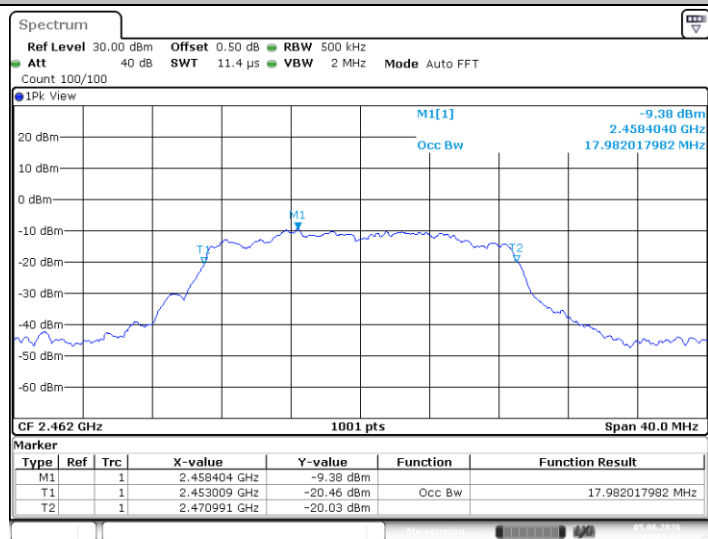


11N20SISO_Ant1_2437



Date: 5.JUN.2026 09:03:07

11N20SISO_Ant1_2462



Date: 5.JUN.2026 09:05:02

Appendix C: Maximum conducted output power

Test Result

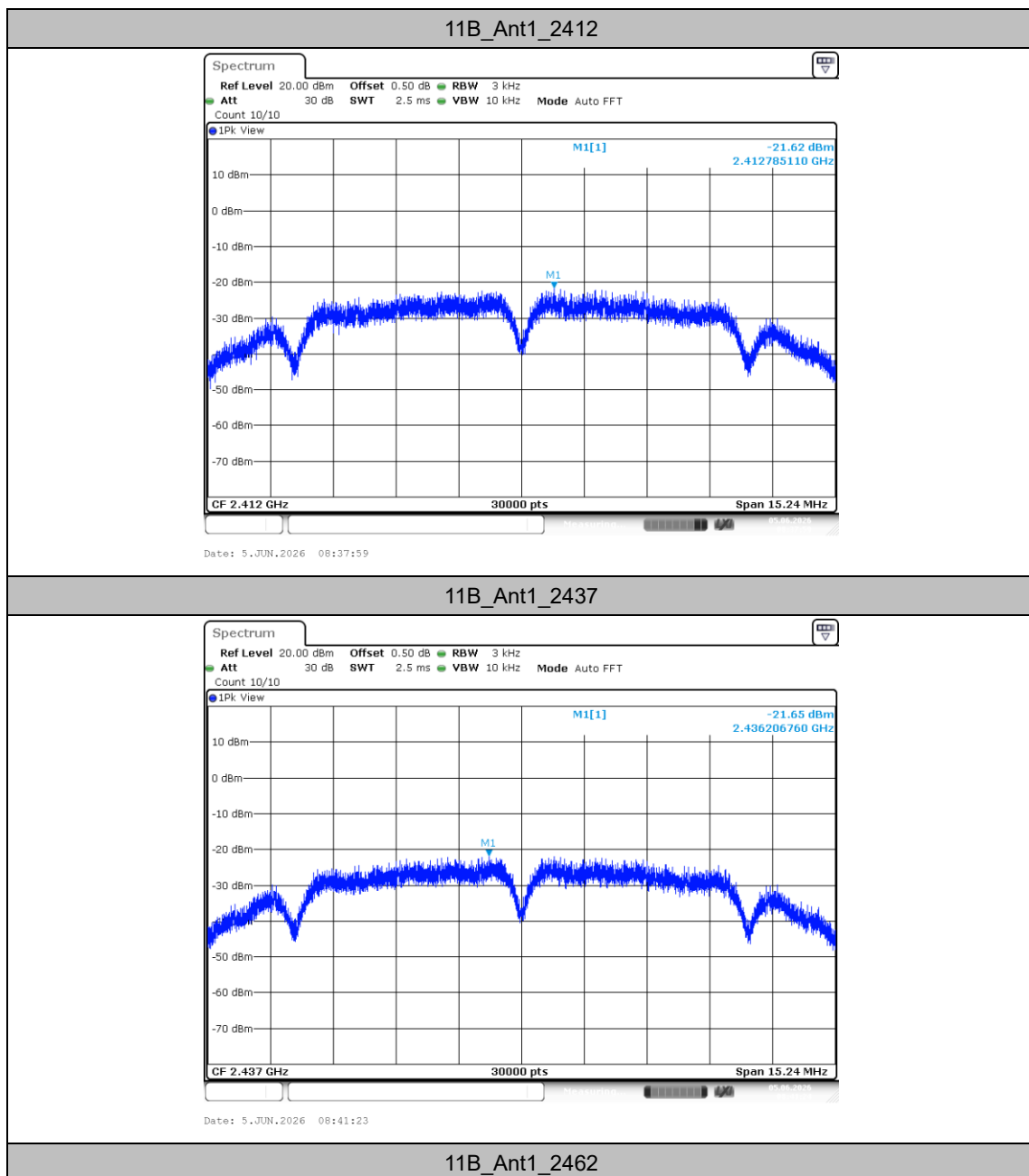
Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	4.58	≤30.00	PASS
		2437	4.66	≤30.00	PASS
		2462	4.75	≤30.00	PASS
11G	Ant1	2412	4.07	≤30.00	PASS
		2437	4.20	≤30.00	PASS
		2462	4.03	≤30.00	PASS
11N20SISO	Ant1	2412	3.78	≤30.00	PASS
		2437	3.83	≤30.00	PASS
		2462	3.86	≤30.00	PASS

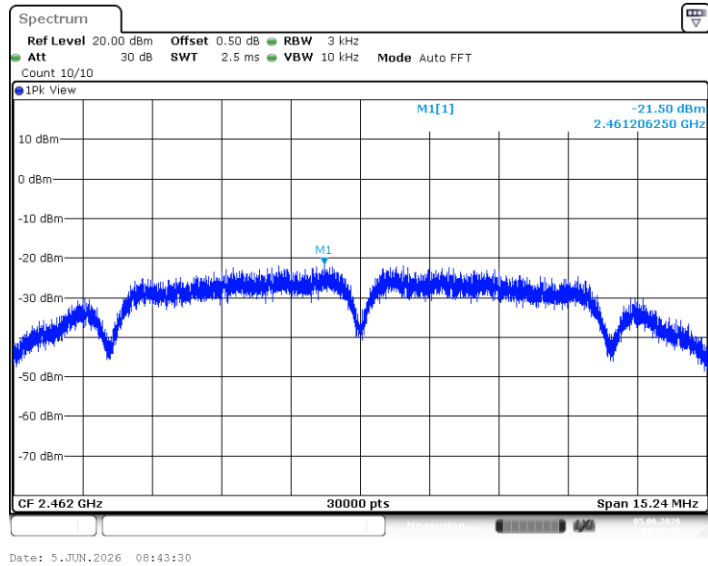
Appendix D: Maximum power spectral density

Test Result

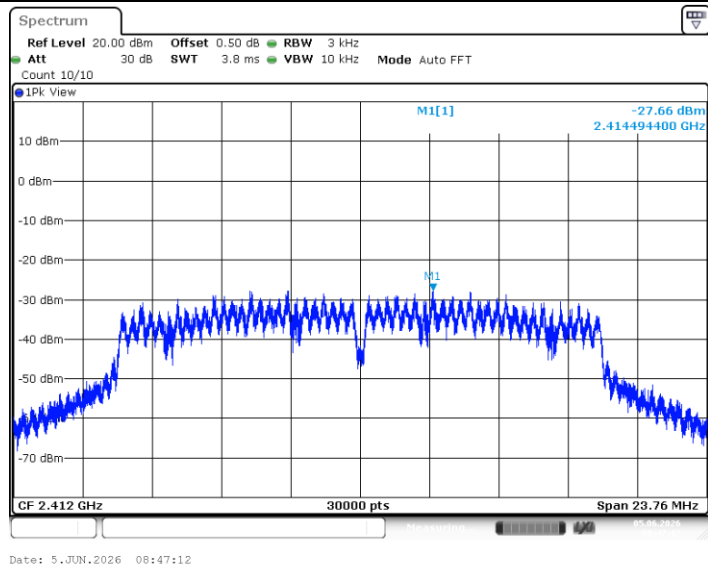
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-21.62	≤8.00	PASS
		2437	-21.65	≤8.00	PASS
		2462	-21.50	≤8.00	PASS
11G	Ant1	2412	-27.66	≤8.00	PASS
		2437	-27.46	≤8.00	PASS
		2462	-26.57	≤8.00	PASS
11N20SISO	Ant1	2412	-26.67	≤8.00	PASS
		2437	-27.13	≤8.00	PASS
		2462	-26.94	≤8.00	PASS

Test Graphs

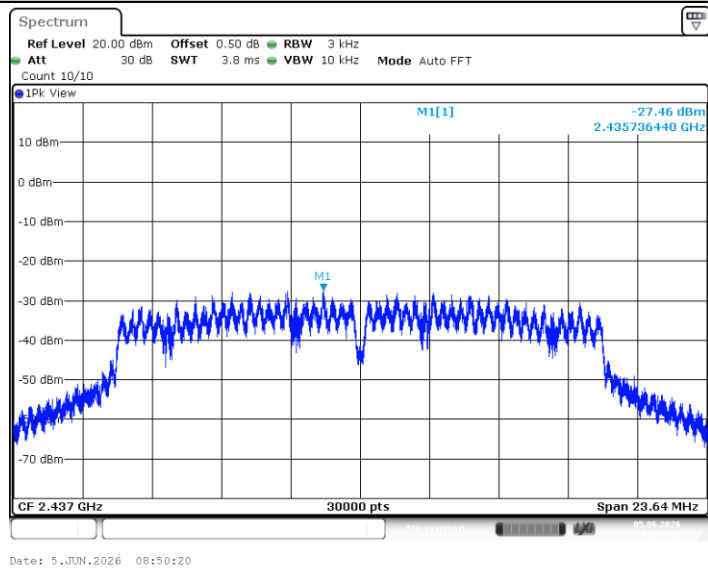




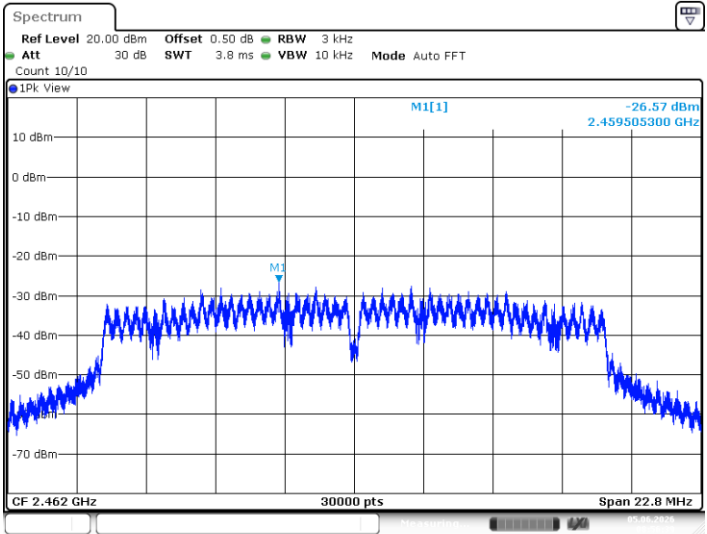
11G_Ant1_2412



11G_Ant1_2437

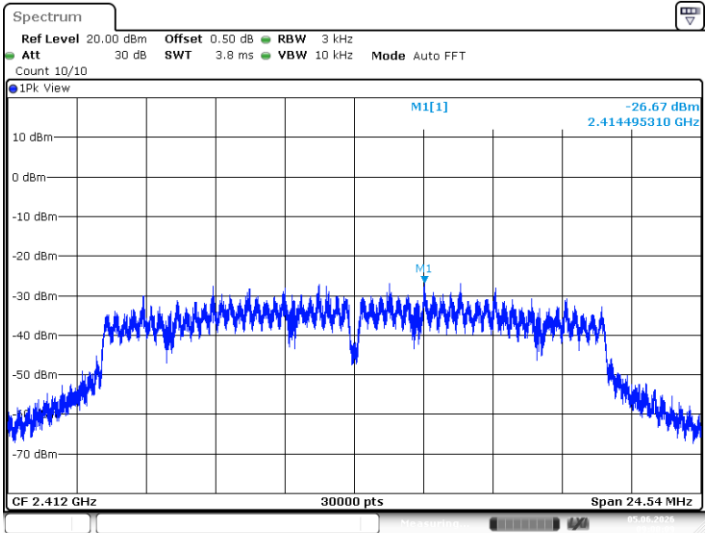


11G_Ant1_2462



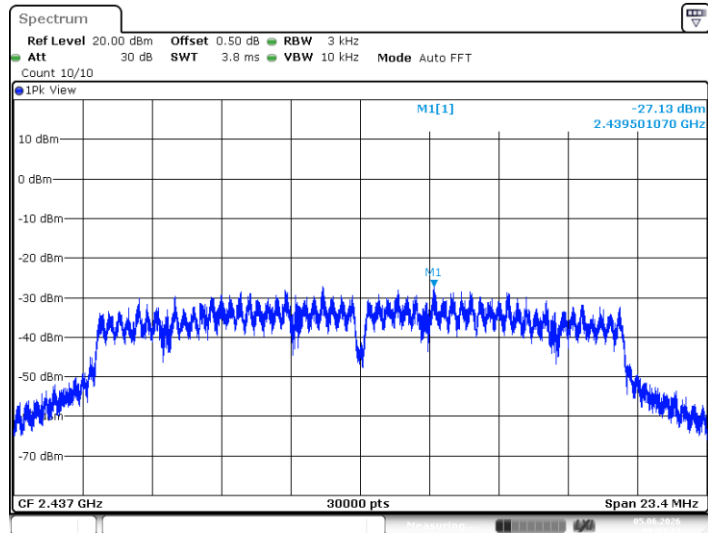
Date: 5.JUN.2026 08:56:39

11N20SISO_Ant1_2412



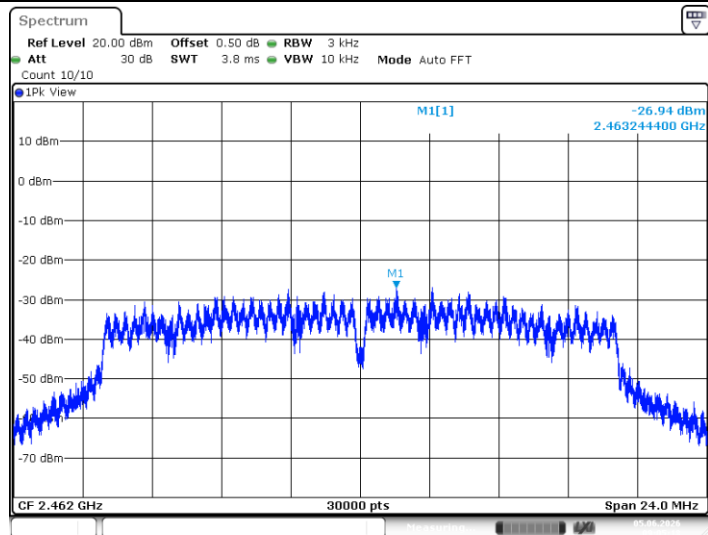
Date: 5.JUN.2026 09:00:09

11N20SISO_Ant1_2437



Date: 5.JUN.2026 09:03:23

11N20SISO_Ant1_2462



Date: 5.JUN.2026 09:05:18

Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-8.15	-57.4	≤-28.15	PASS
		High	2462	-7.59	-56.69	≤-27.59	PASS
11G	Ant1	Low	2412	-12.60	-45.19	≤-32.6	PASS
		High	2462	-12.56	-56.67	≤-32.56	PASS
11N20SISO	Ant1	Low	2412	-12.58	-44.63	≤-32.58	PASS
		High	2462	-12.98	-57.1	≤-32.98	PASS