

Appendix: 2.4G Wi-Fi

Contents

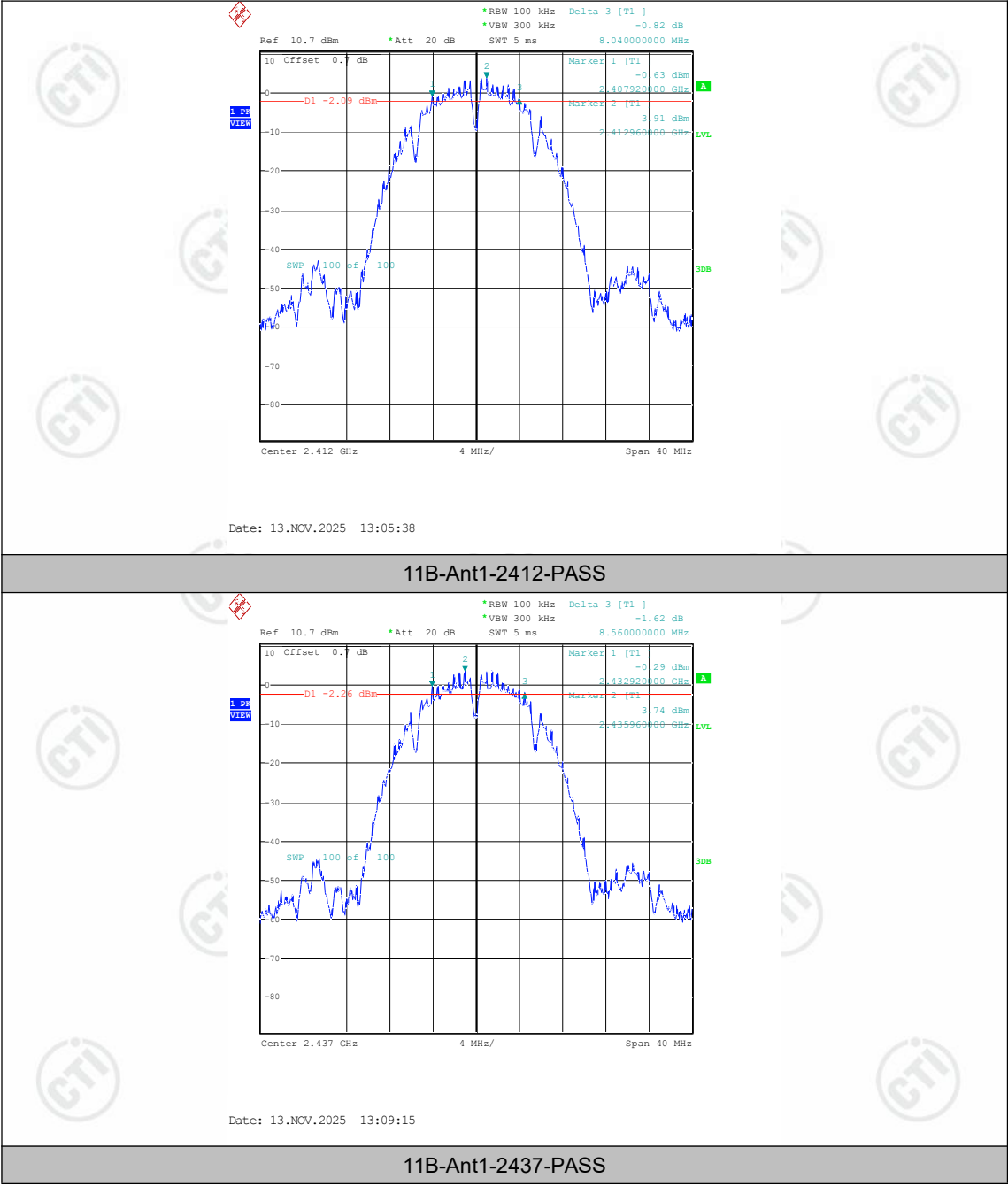
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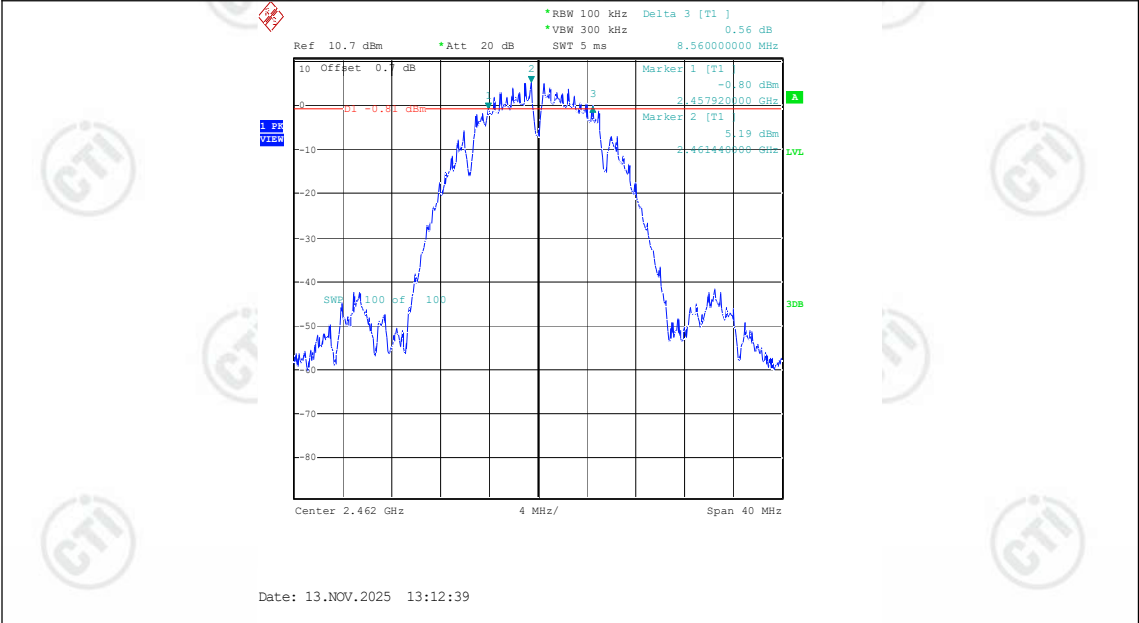
Appendix A: DTS Bandwidth

Test Result

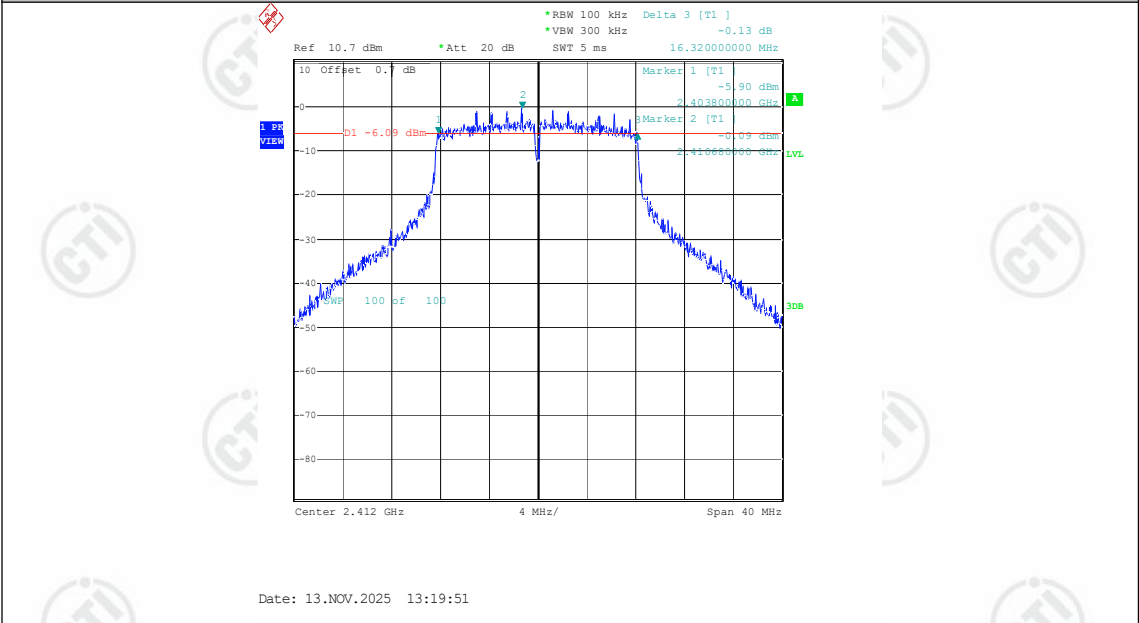
TestMode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.04	2407.92	2415.96	0.5	PASS
11B	Ant1	2437	8.56	2432.92	2441.48	0.5	PASS
11B	Ant1	2462	8.56	2457.92	2466.48	0.5	PASS
11G	Ant1	2412	16.32	2403.80	2420.12	0.5	PASS
11G	Ant1	2437	15.68	2429.16	2444.84	0.5	PASS
11G	Ant1	2462	16.32	2453.80	2470.12	0.5	PASS
11N20SISO	Ant1	2412	17.28	2403.16	2420.44	0.5	PASS
11N20SISO	Ant1	2437	17.56	2428.16	2445.72	0.5	PASS
11N20SISO	Ant1	2462	17.20	2453.52	2470.72	0.5	PASS
11N40SISO	Ant1	2422	35.28	2404.48	2439.76	0.5	PASS
11N40SISO	Ant1	2437	35.36	2419.40	2454.76	0.5	PASS
11N40SISO	Ant1	2452	34.88	2434.64	2469.52	0.5	PASS
11AX20SISO	Ant1	2412	17.48	2403.48	2420.96	0.5	PASS
11AX20SISO	Ant1	2437	18.68	2427.56	2446.24	0.5	PASS
11AX20SISO	Ant1	2462	17.20	2453.60	2470.80	0.5	PASS
11AX40SISO	Ant1	2422	37.36	2403.12	2440.48	0.5	PASS
11AX40SISO	Ant1	2437	37.04	2418.36	2455.40	0.5	PASS
11AX40SISO	Ant1	2452	36.56	2433.44	2470.00	0.5	PASS

Test Graphs

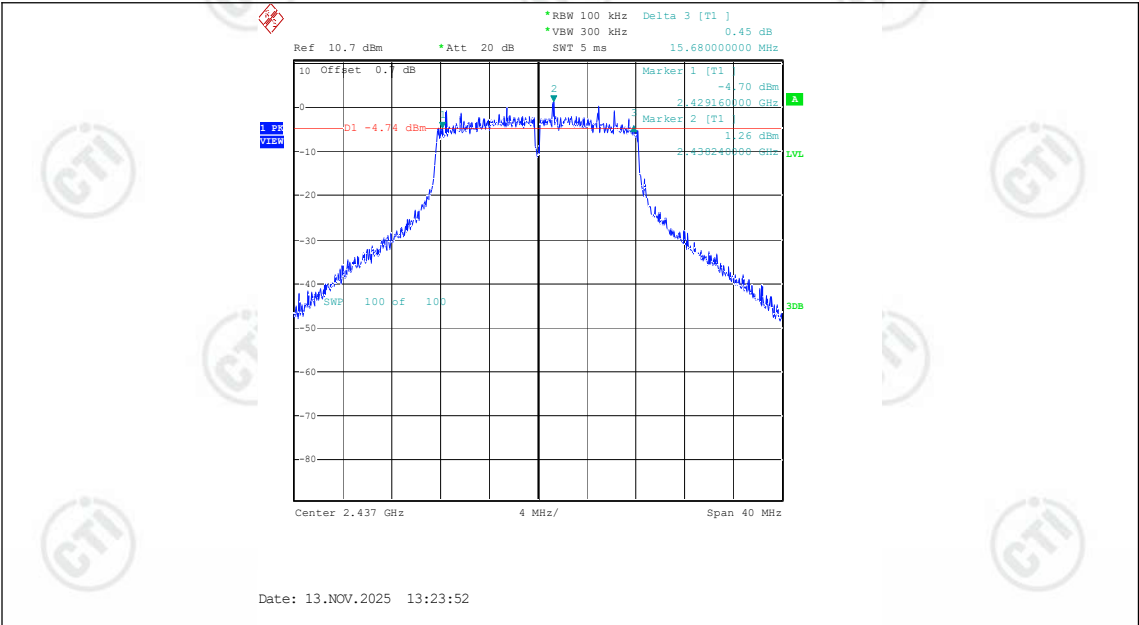




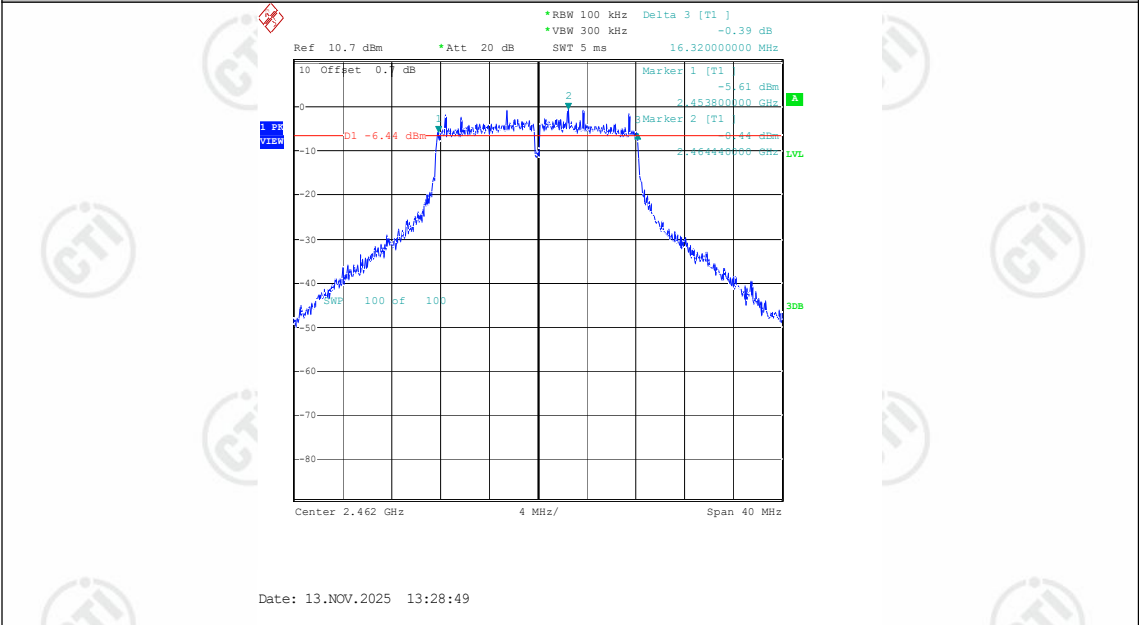
11B-Ant1-2462-PASS



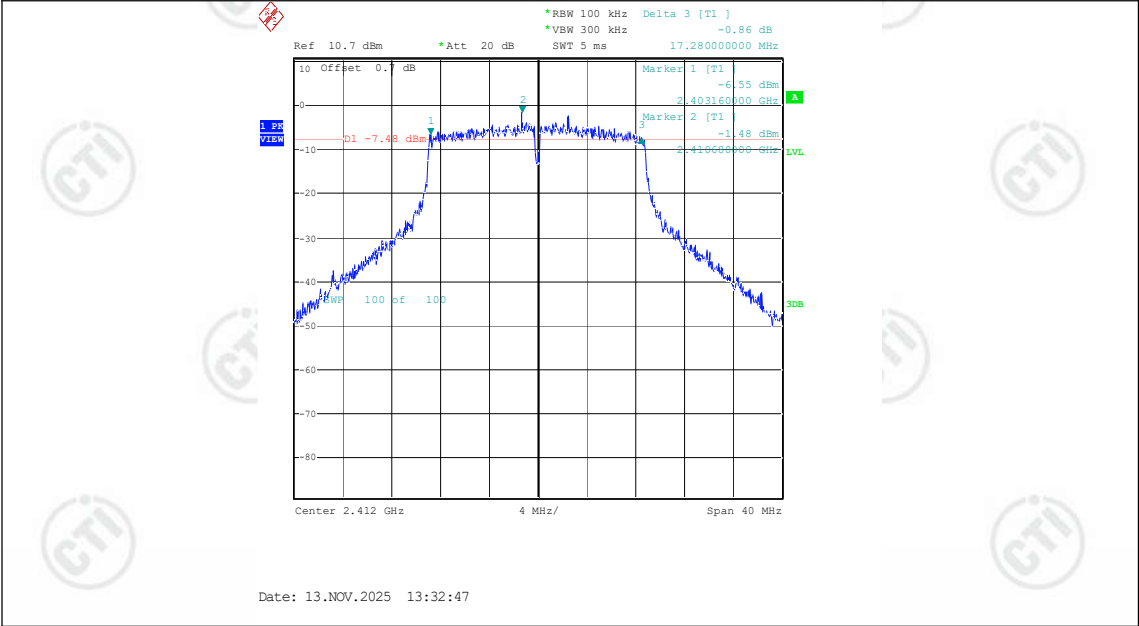
11G-Ant1-2412-PASS



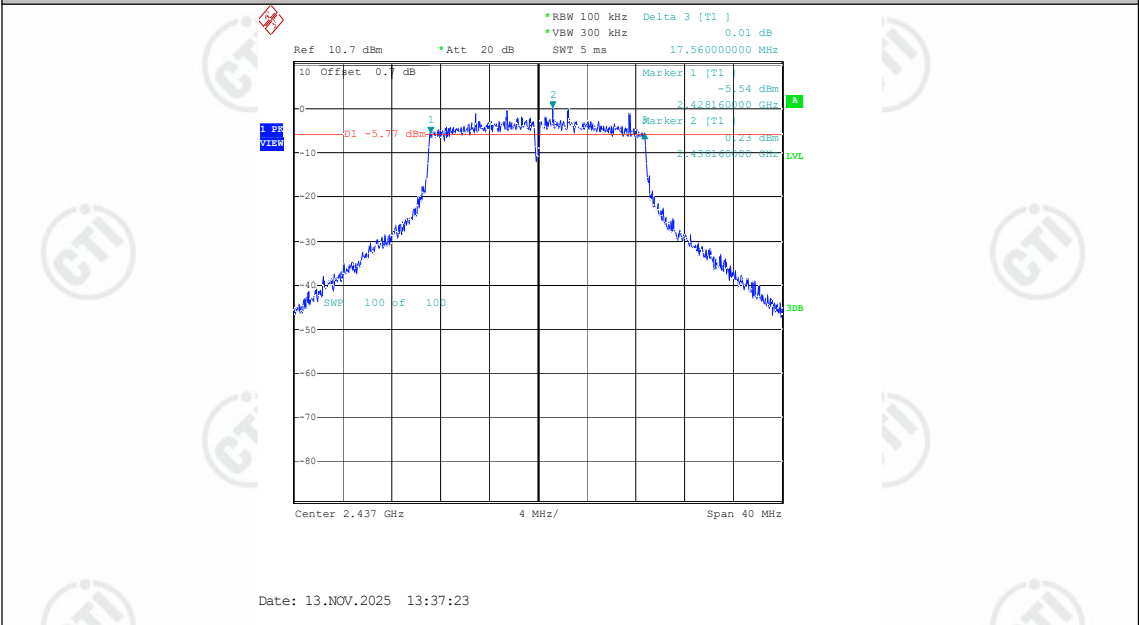
11G-Ant1-2437-PASS



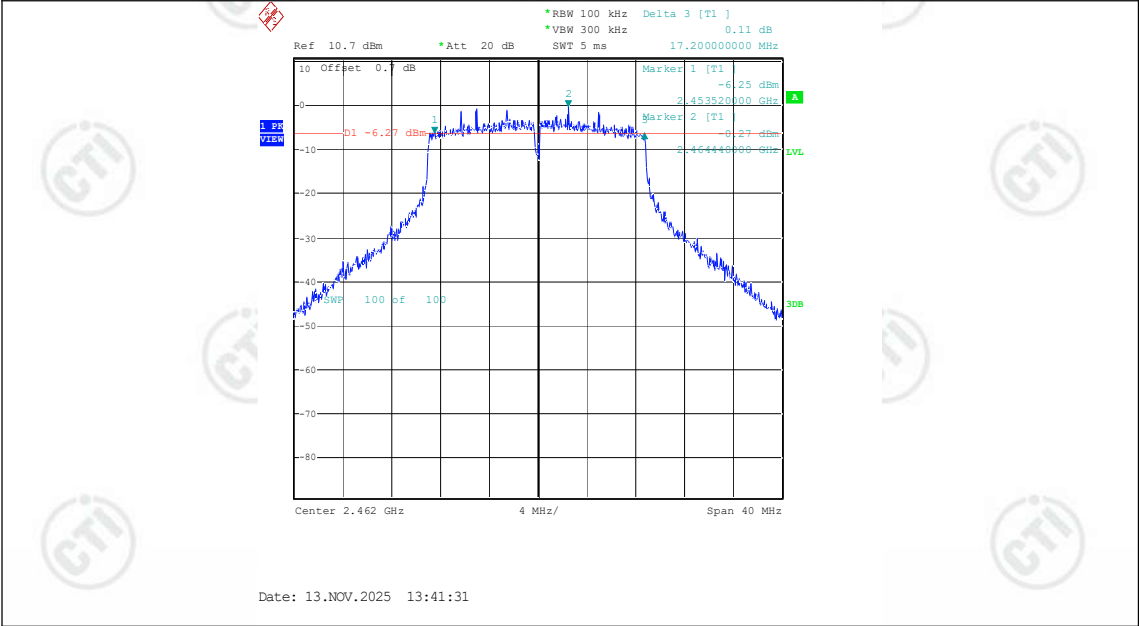
11G-Ant1-2462-PASS



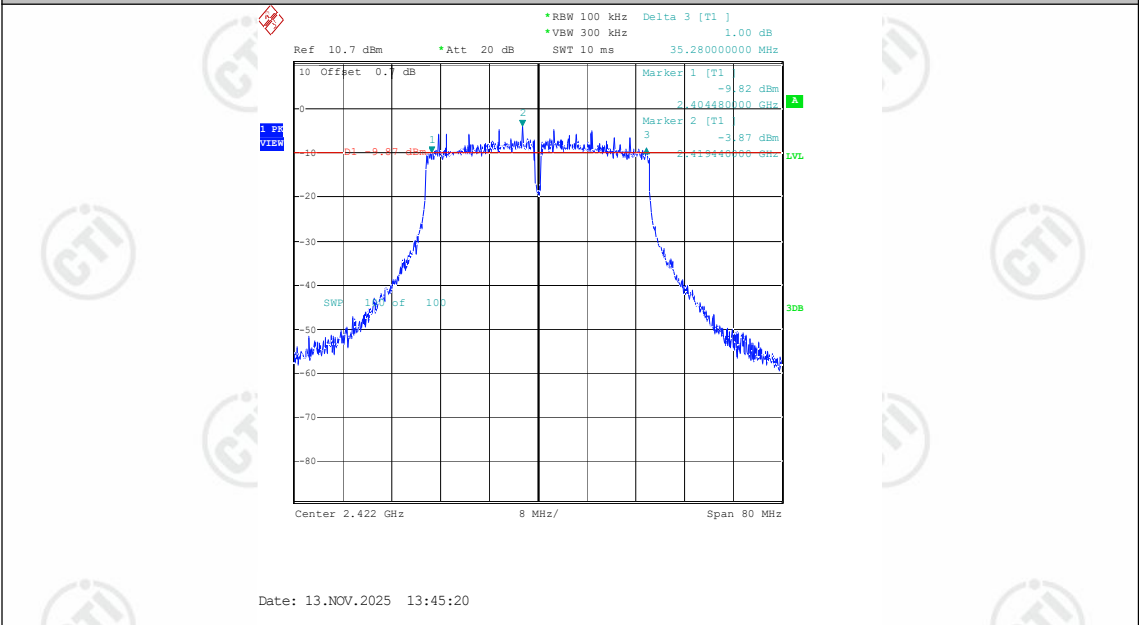
11N20SISO-Ant1-2412-PASS



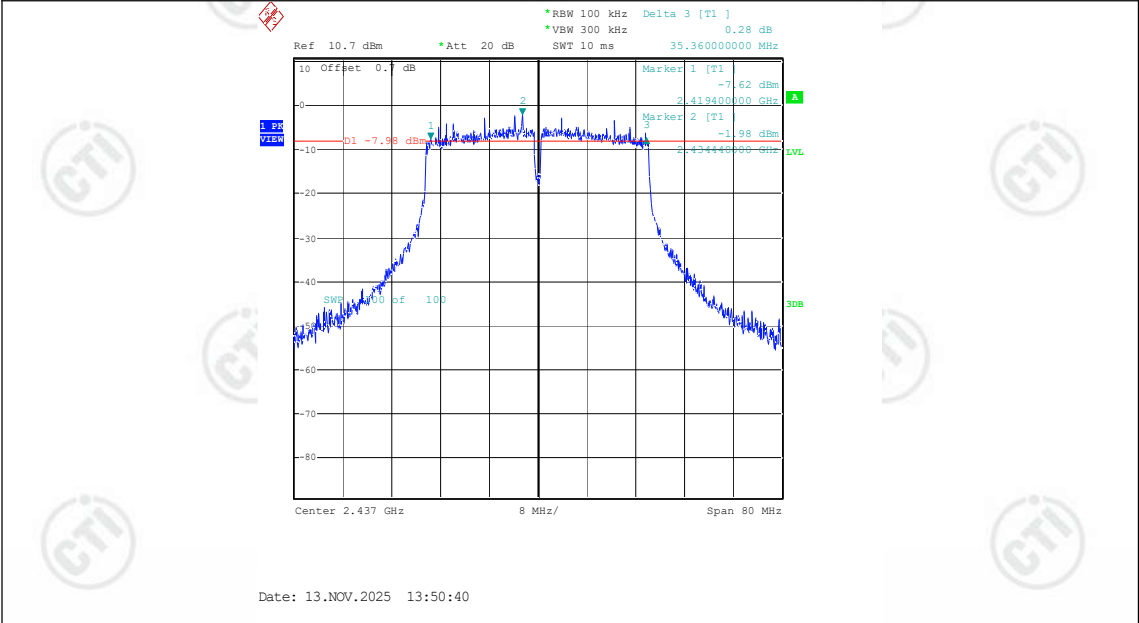
11N20SISO-Ant1-2437-PASS



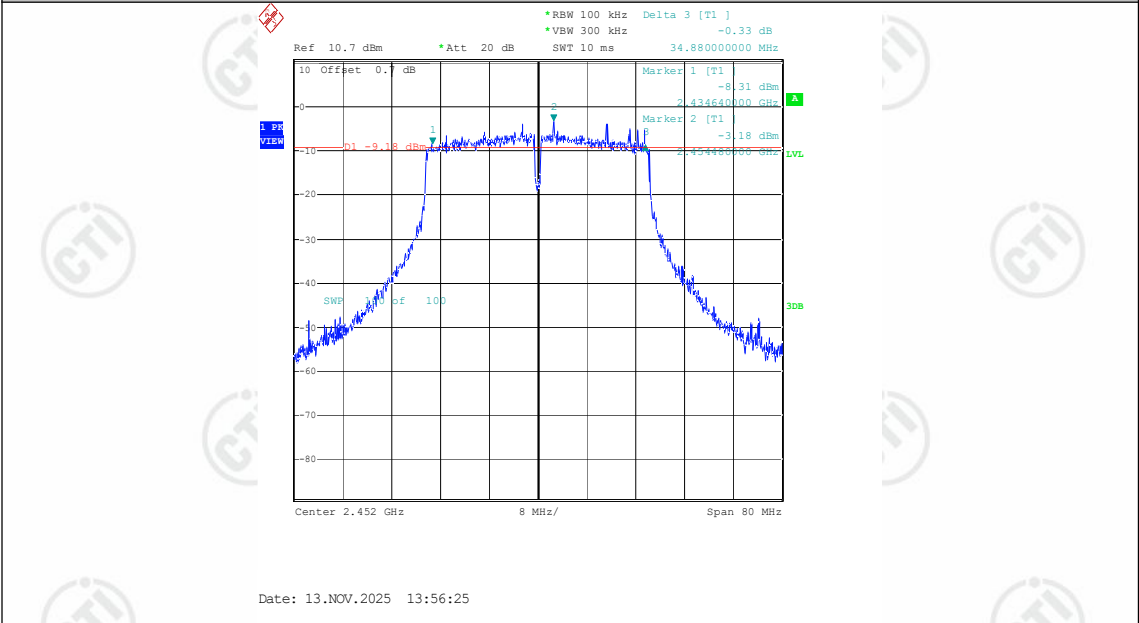
11N20SISO-Ant1-2462-PASS



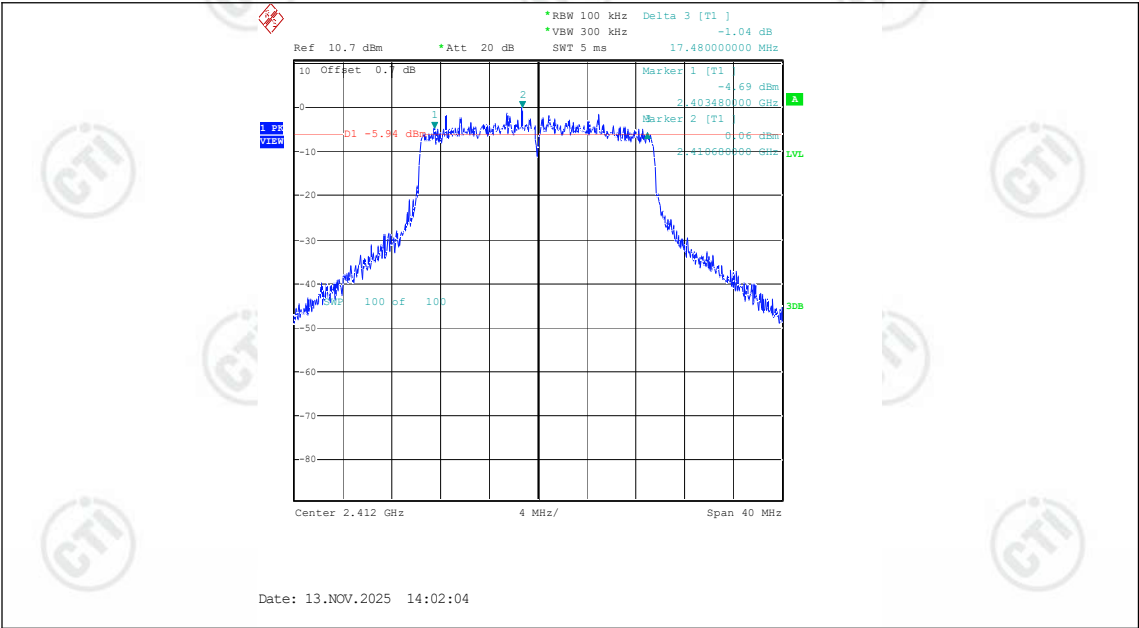
11N40SISO-Ant1-2422-PASS



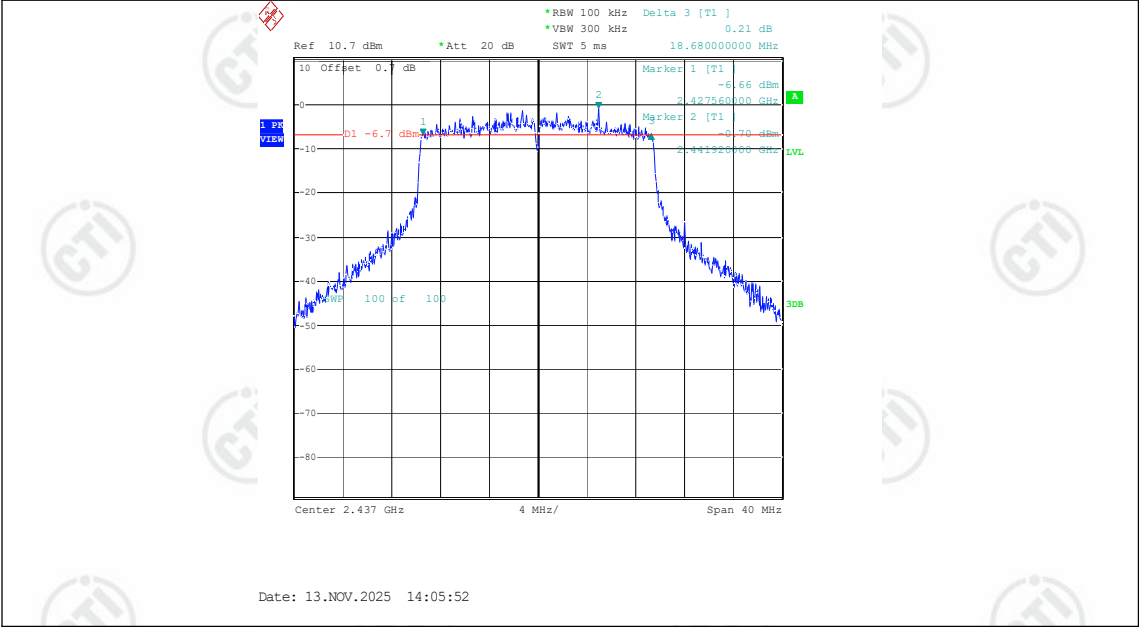
11N40SISO-Ant1-2437-PASS



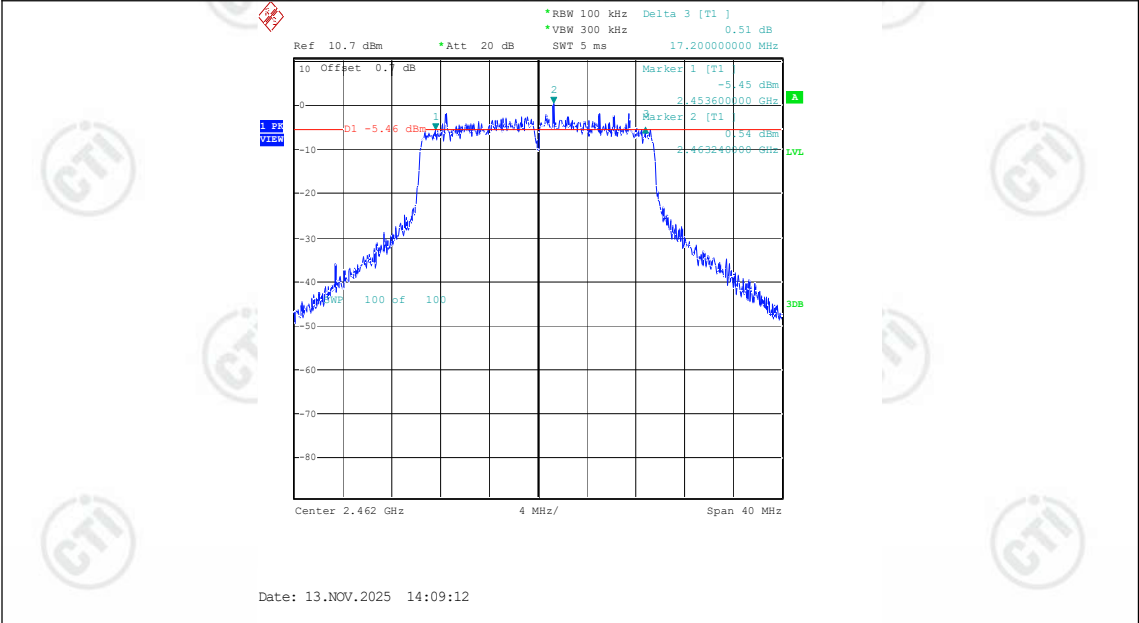
11N40SISO-Ant1-2452-PASS



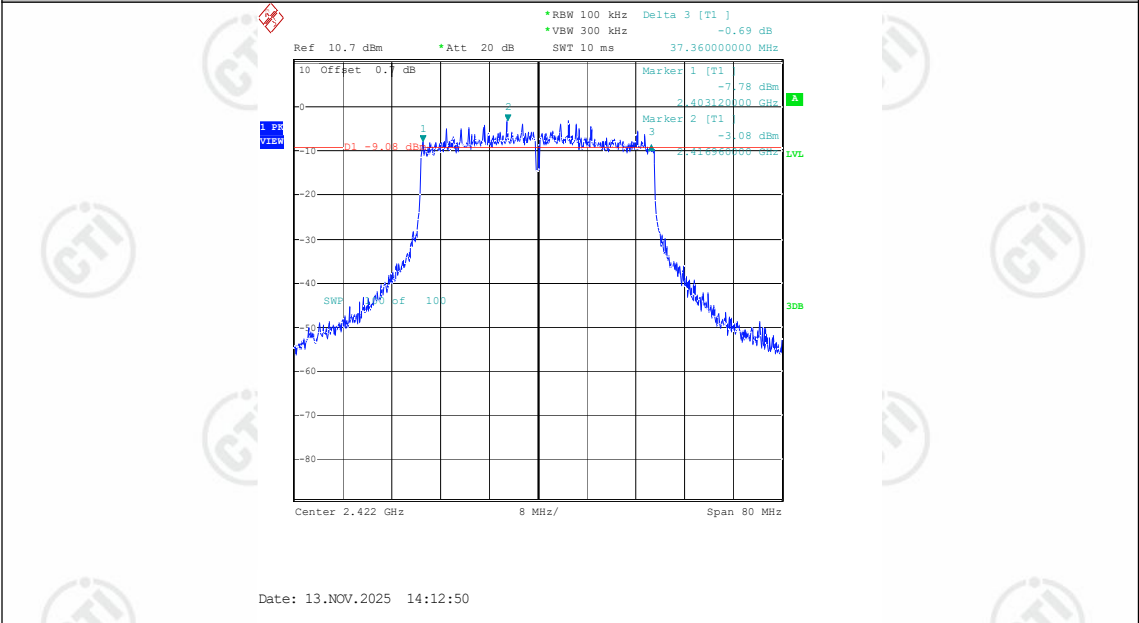
11AX20ISO-Ant1-2412-PASS



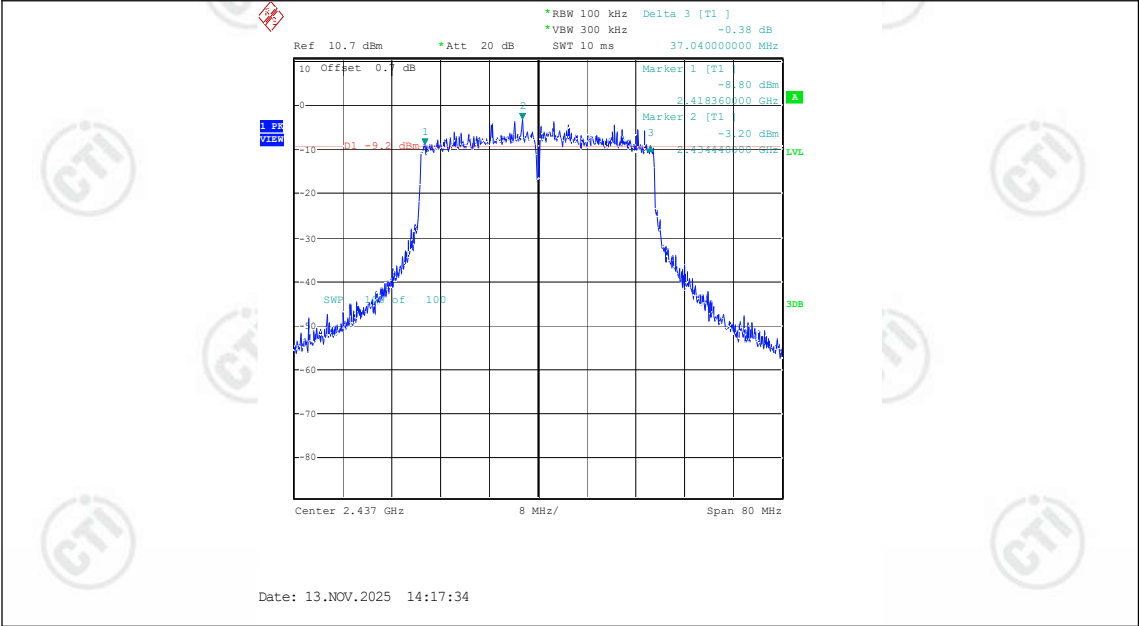
11AX20ISO-Ant1-2437-PASS



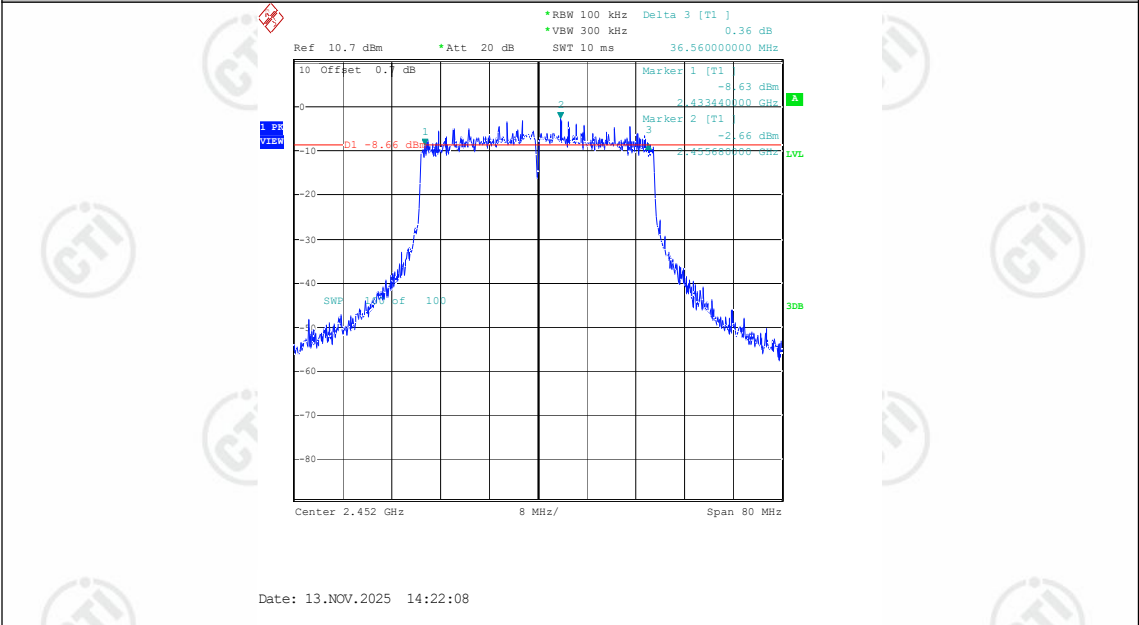
11AX20ISO-Ant1-2462-PASS



11AX40ISO-Ant1-2422-PASS



11AX40SISO-Ant1-2437-PASS



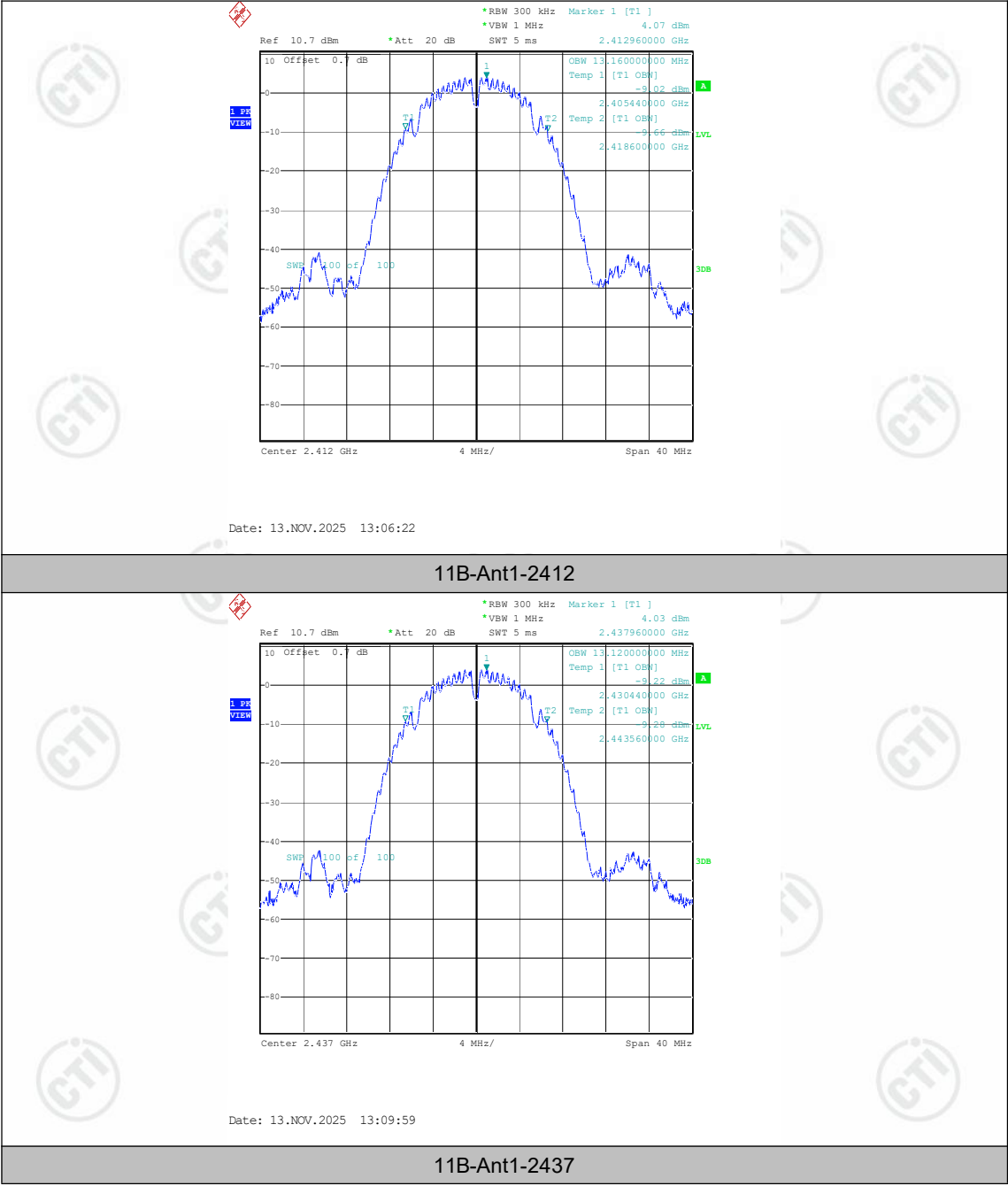
11AX40SISO-Ant1-2452-PASS

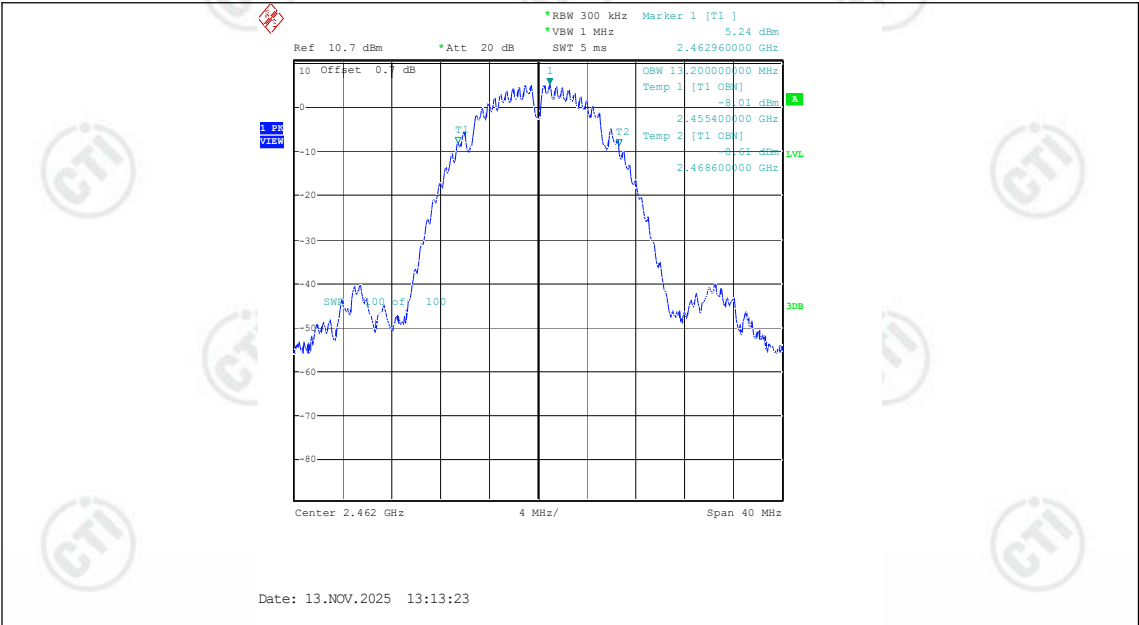
Appendix B: Occupied Channel Bandwidth

Test Result

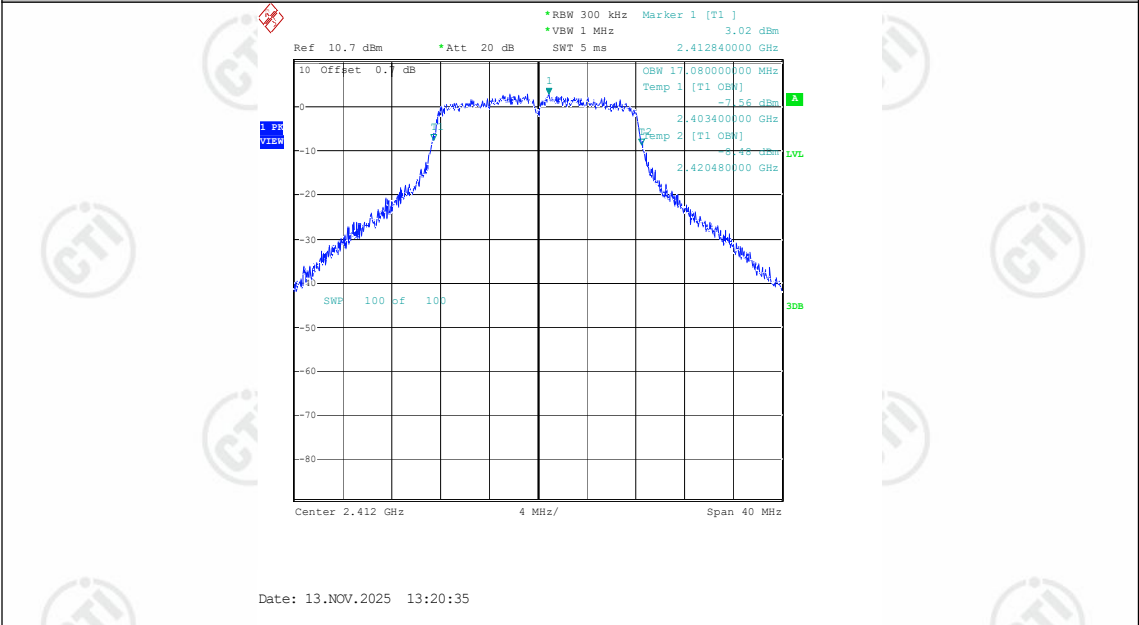
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.160	---	---
11B	Ant1	2437	13.120	---	---
11B	Ant1	2462	13.200	---	---
11G	Ant1	2412	17.080	---	---
11G	Ant1	2437	17.080	---	---
11G	Ant1	2462	17.160	---	---
11N20SISO	Ant1	2412	18.320	---	---
11N20SISO	Ant1	2437	18.240	---	---
11N20SISO	Ant1	2462	18.240	---	---
11N40SISO	Ant1	2422	37.360	---	---
11N40SISO	Ant1	2437	37.360	---	---
11N40SISO	Ant1	2452	37.280	---	---
11AX20SISO	Ant1	2412	19.240	---	---
11AX20SISO	Ant1	2437	19.200	---	---
11AX20SISO	Ant1	2462	19.160	---	---
11AX40SISO	Ant1	2422	38.400	---	---
11AX40SISO	Ant1	2437	38.480	---	---
11AX40SISO	Ant1	2452	38.480	---	---

Test Graphs

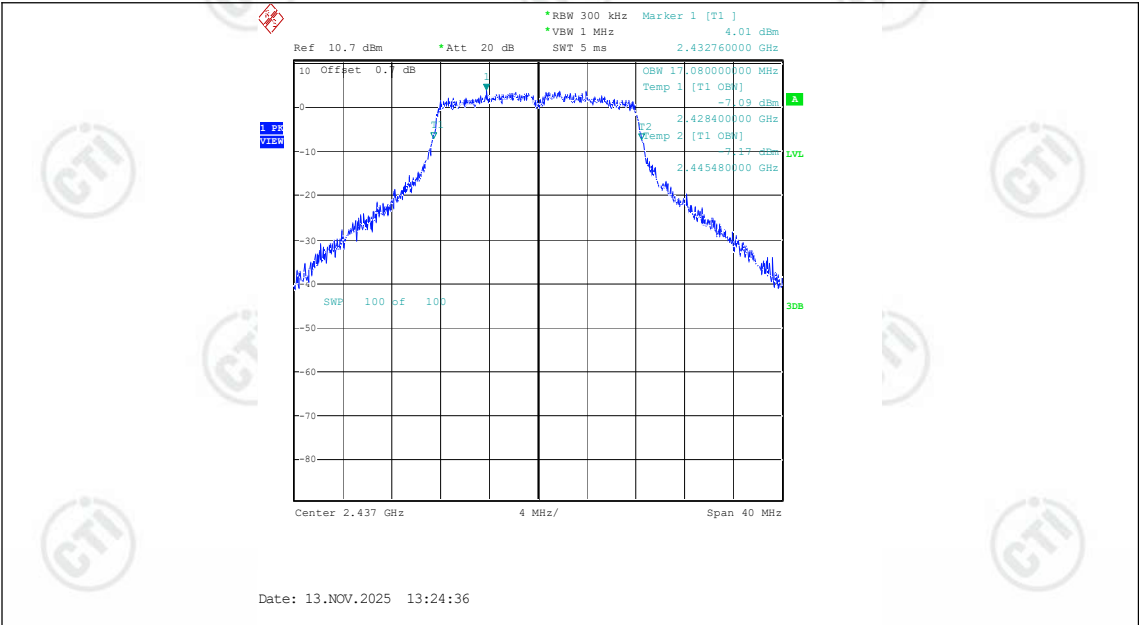




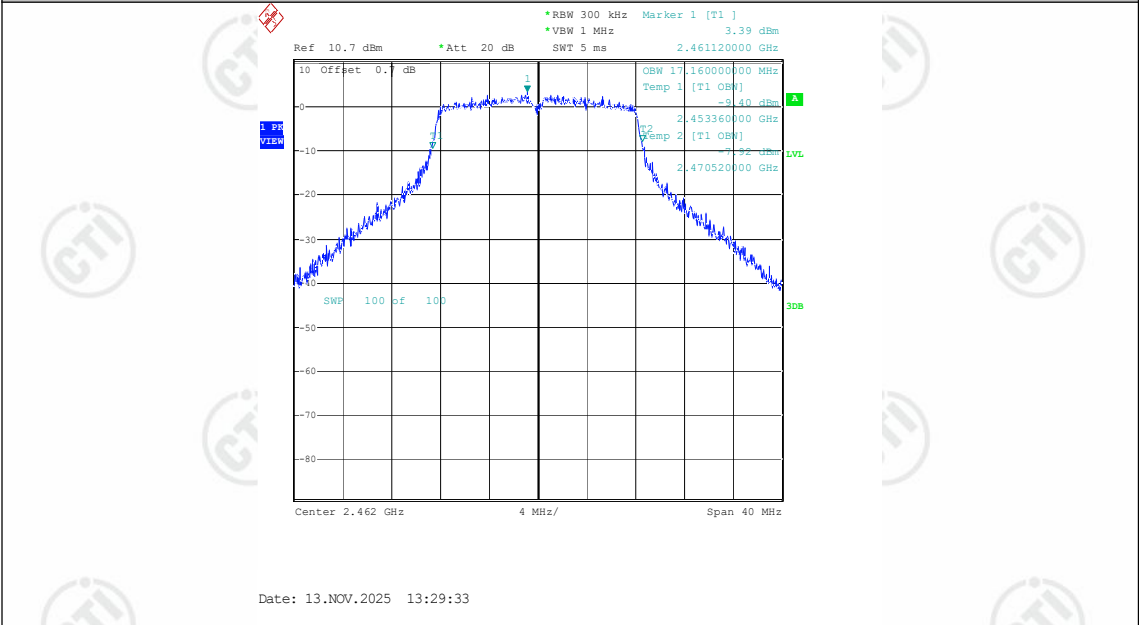
11B-Ant1-2462



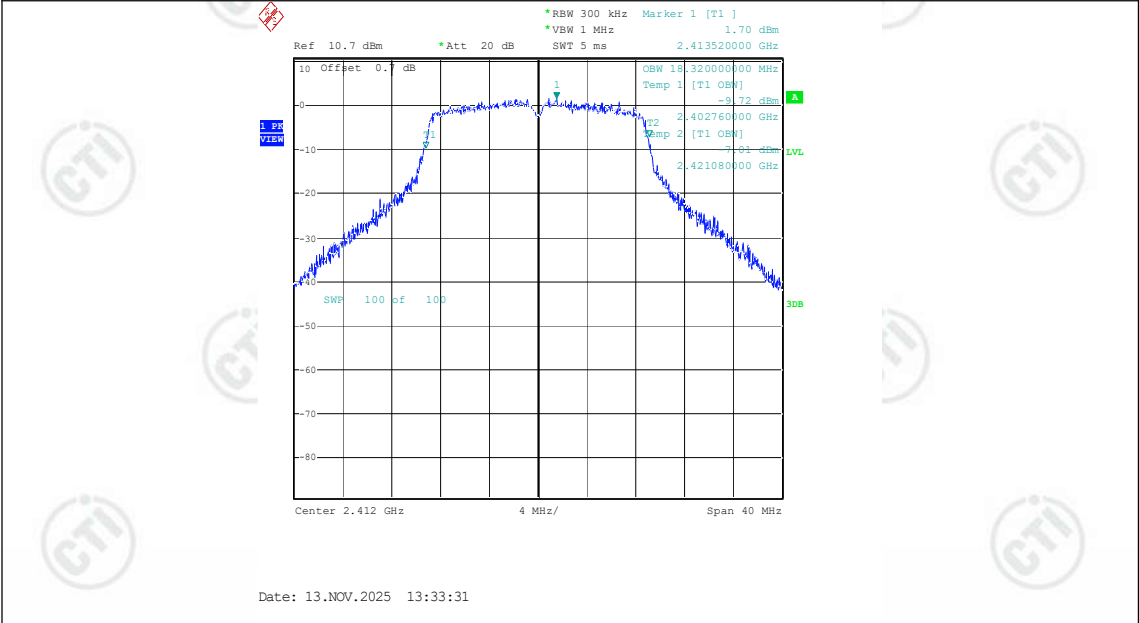
11G-Ant1-2412



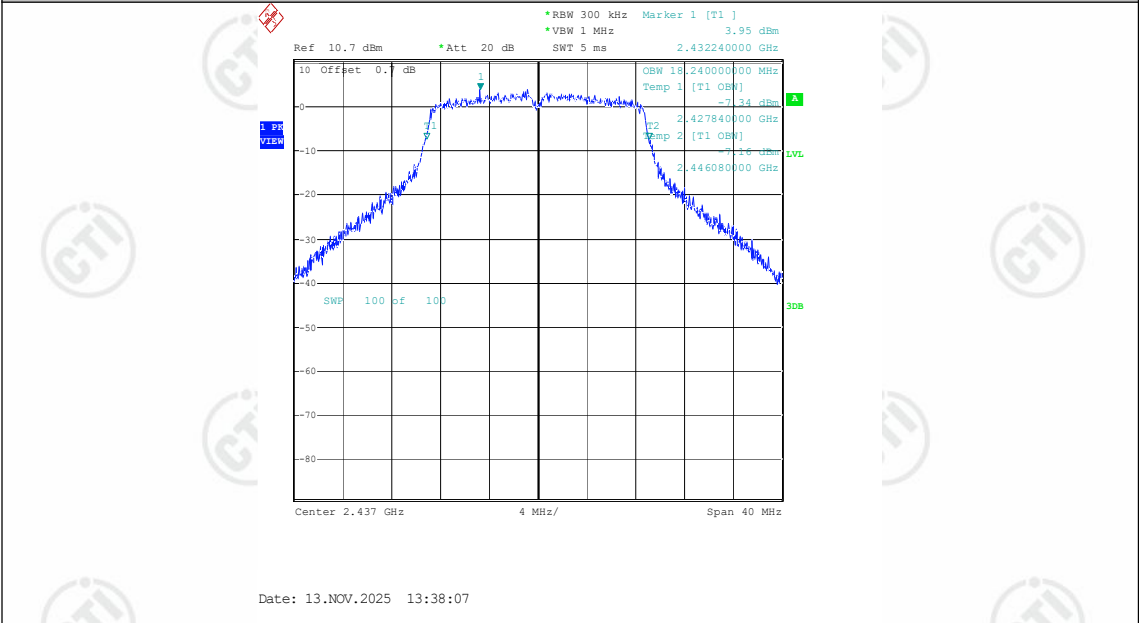
11G-Ant1-2437



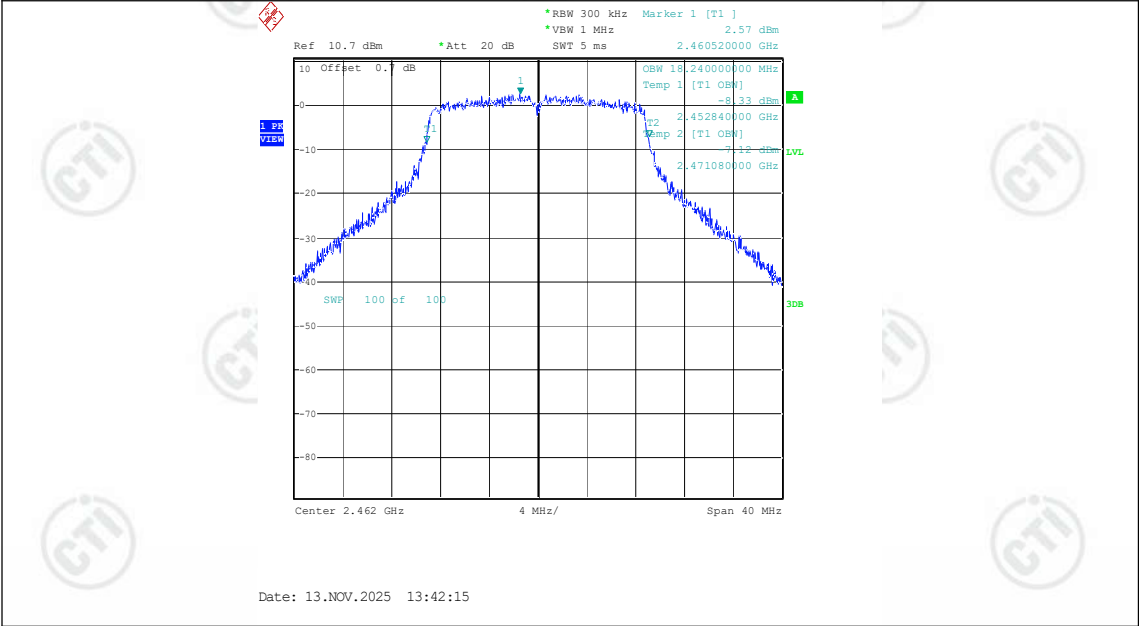
11G-Ant1-2462



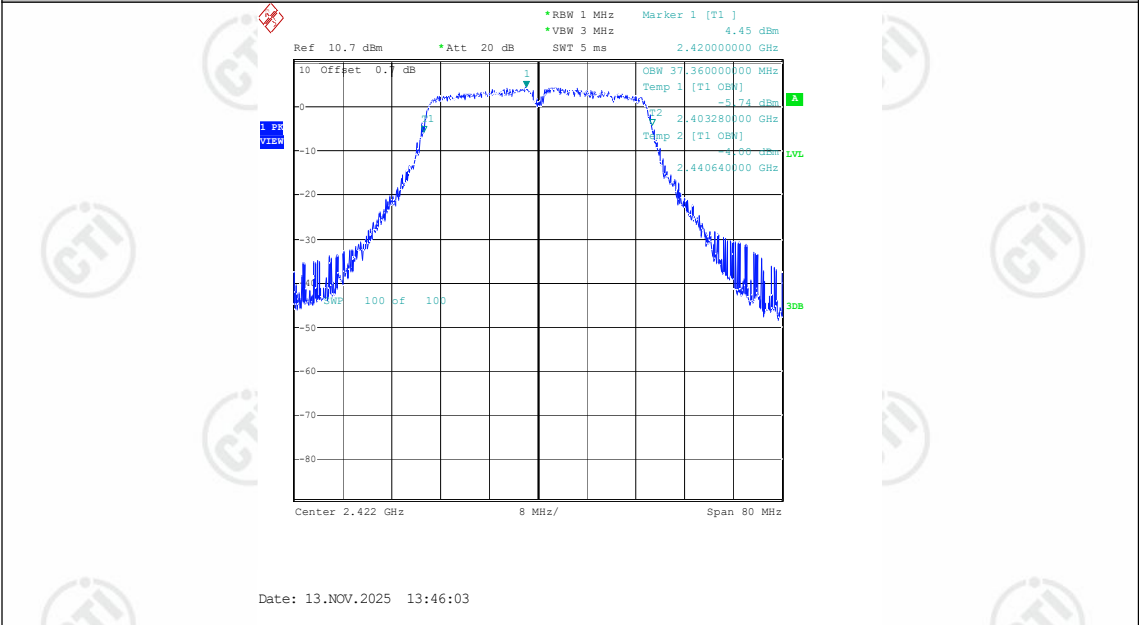
11N20SISO-Ant1-2412



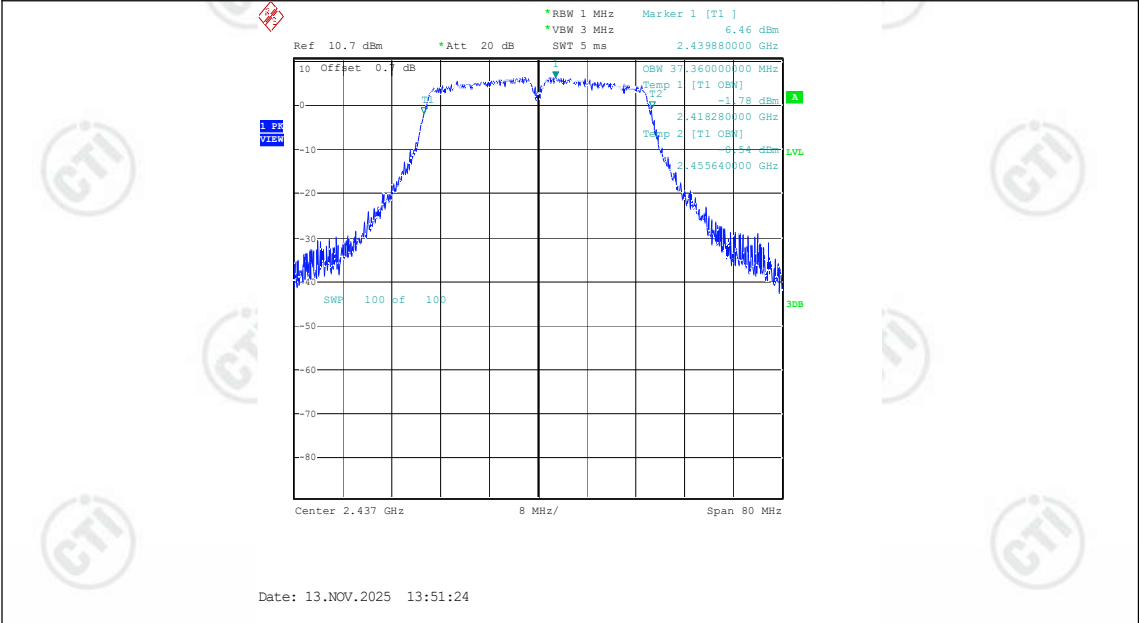
11N20SISO-Ant1-2437



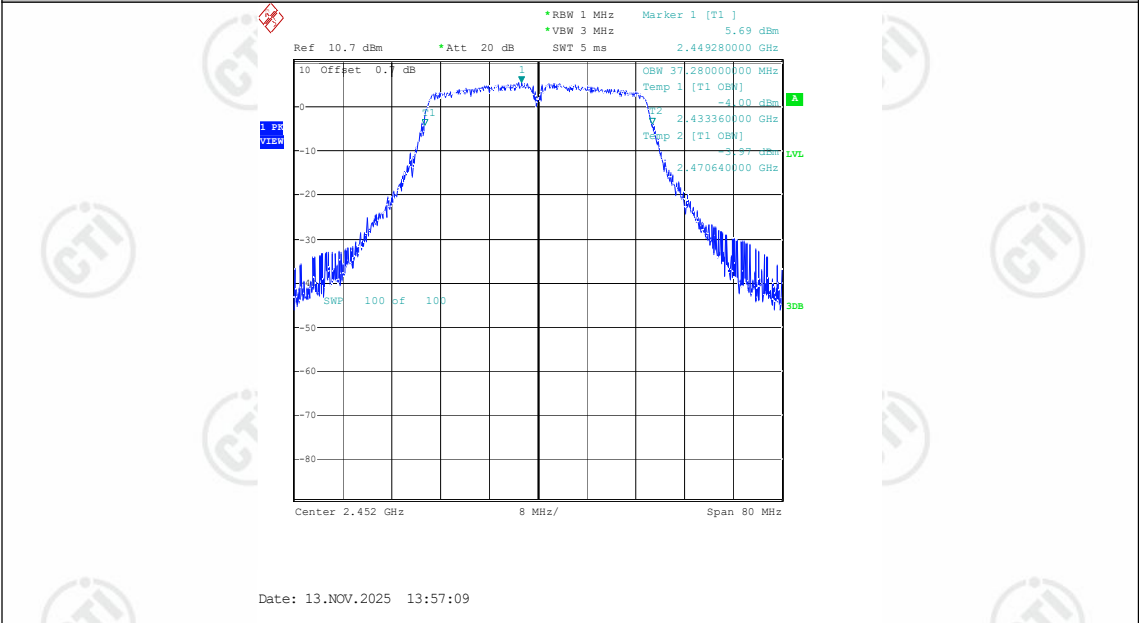
11N20SISO-Ant1-2462



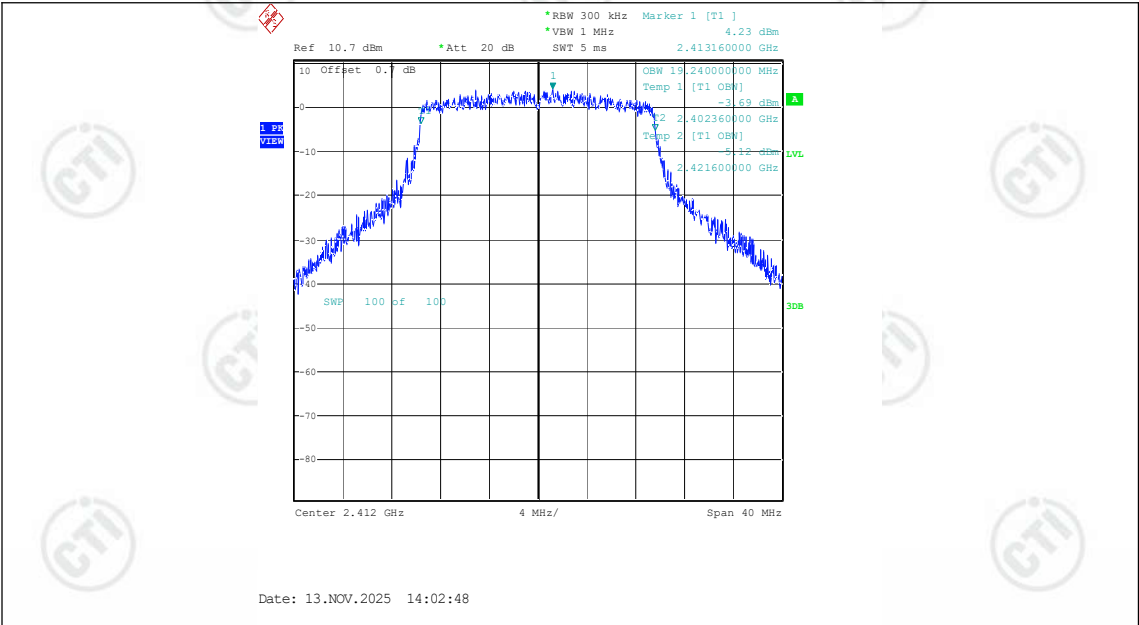
11N40SISO-Ant1-2422



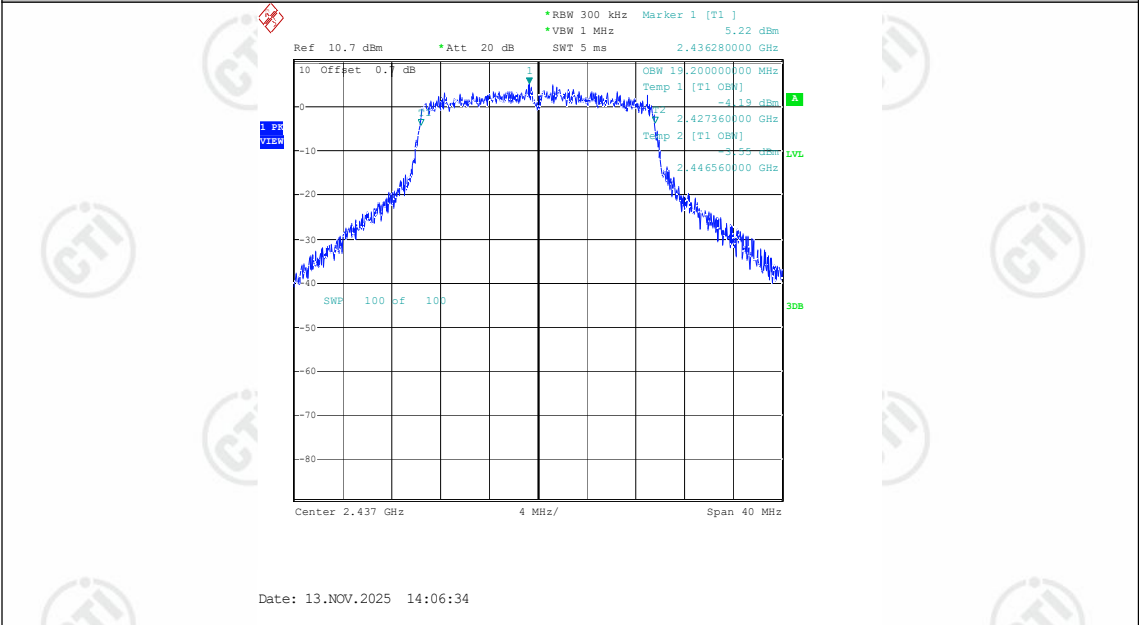
11N40SISO-Ant1-2437



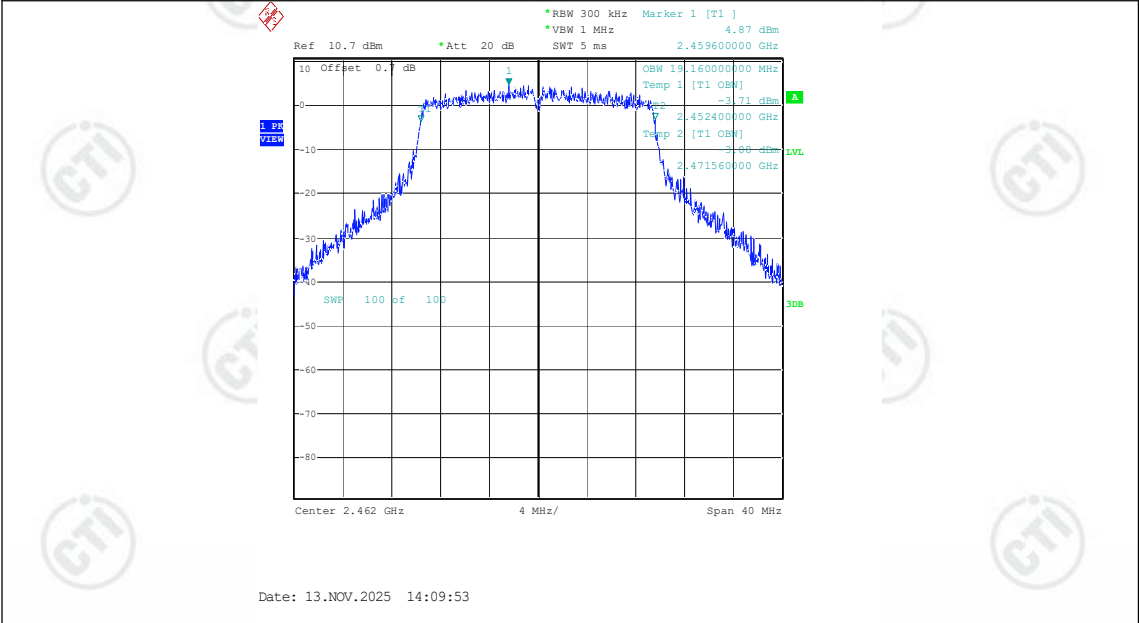
11N40SISO-Ant1-2452



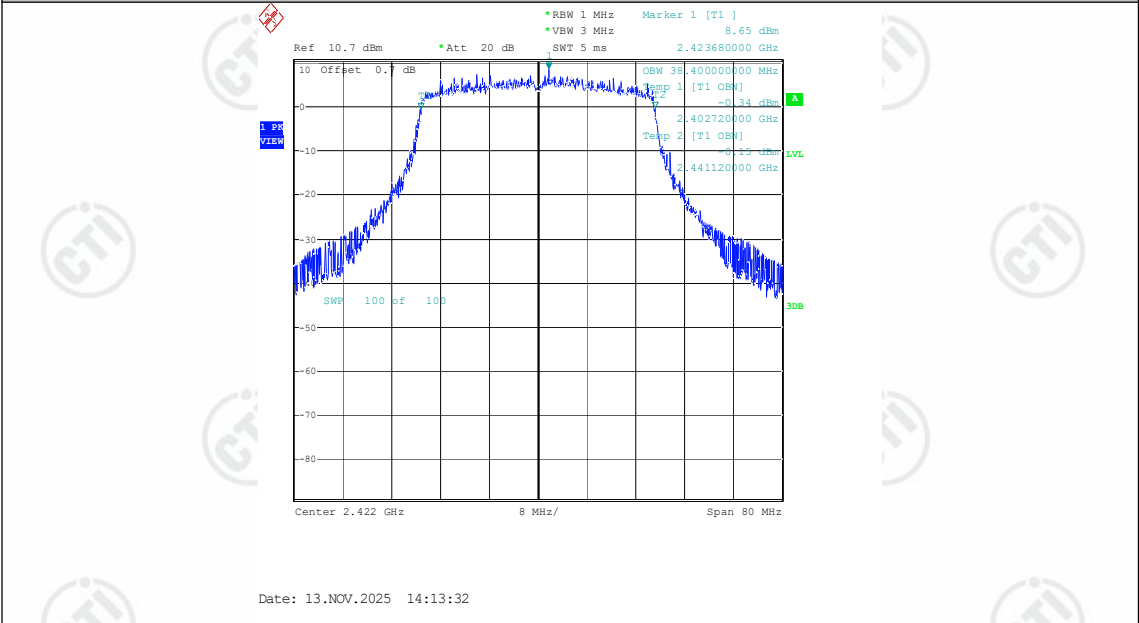
11AX20SISO-Ant1-2412



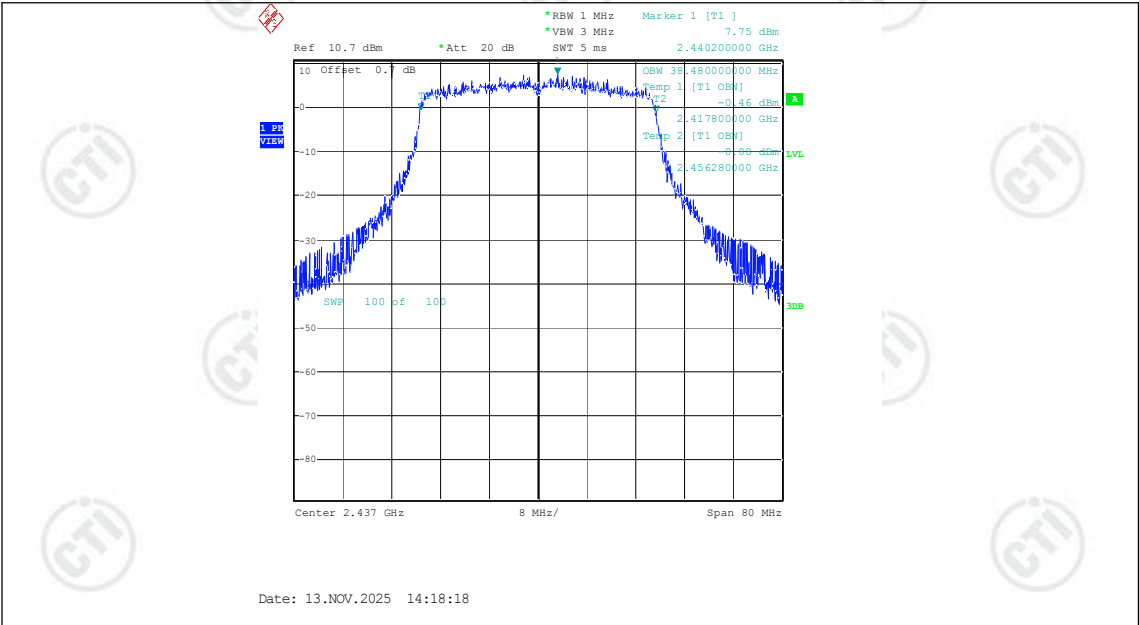
11AX20SISO-Ant1-2437



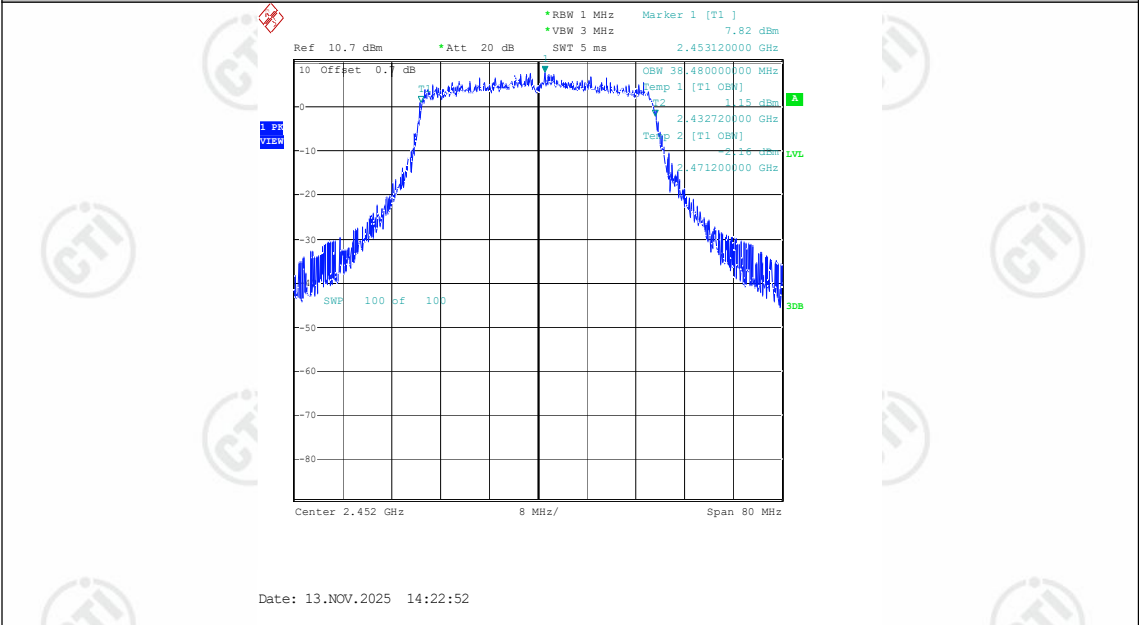
11AX20SISO-Ant1-2462



11AX40SISO-Ant1-2422



11AX40SISO-Ant1-2437



11AX40SISO-Ant1-2452

Appendix C: Maximum conducted output power

Test Result Peak

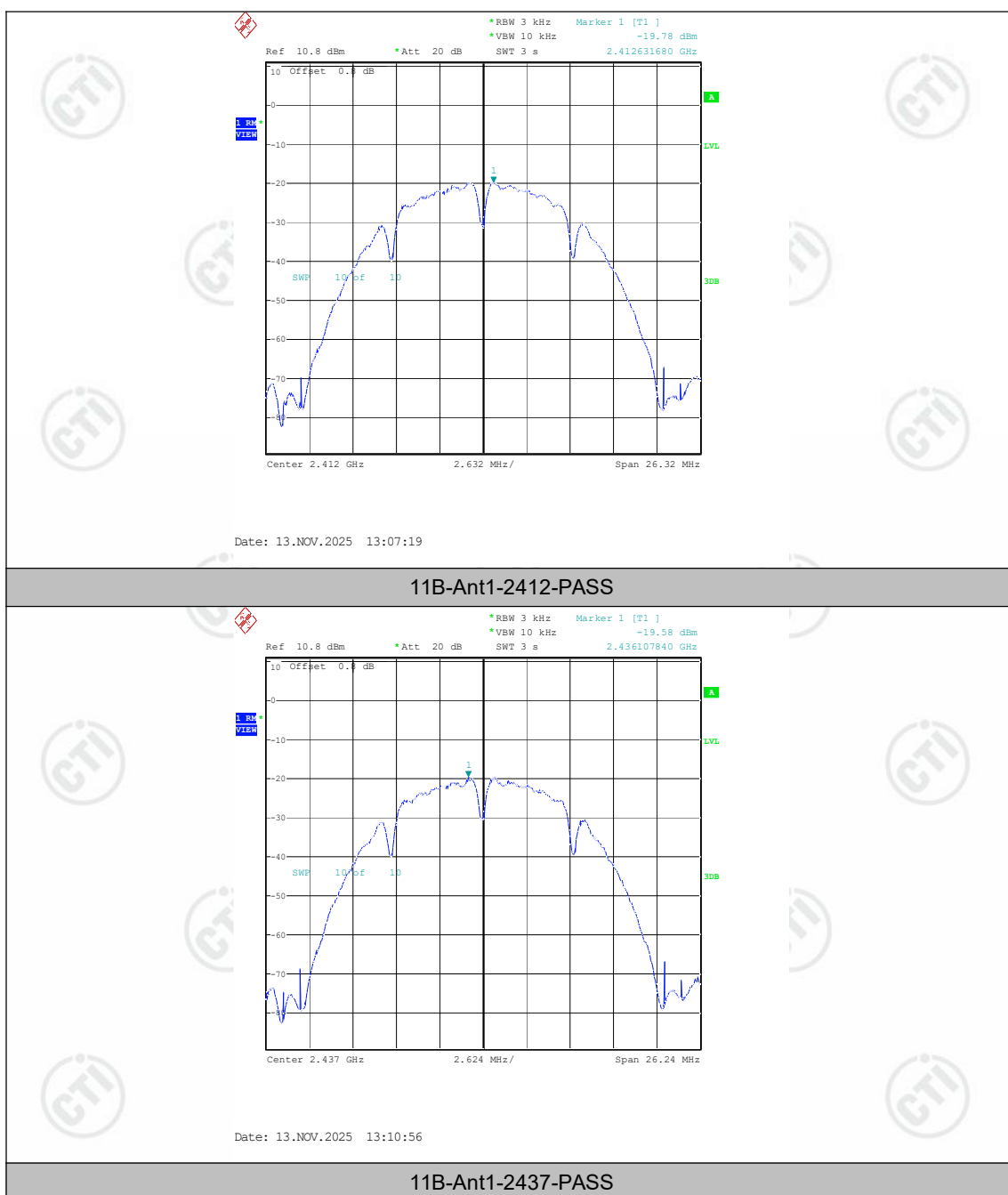
TestMode	Antenna	Frequency[MHz]	Conducted Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	12.01	≤30.00	PASS
11B	Ant1	2437	12.08	≤30.00	PASS
11B	Ant1	2462	12.16	≤30.00	PASS
11G	Ant1	2412	10.85	≤30.00	PASS
11G	Ant1	2437	10.91	≤30.00	PASS
11G	Ant1	2462	10.89	≤30.00	PASS
11N20SISO	Ant1	2412	10.87	≤30.00	PASS
11N20SISO	Ant1	2437	10.87	≤30.00	PASS
11N20SISO	Ant1	2462	10.85	≤30.00	PASS
11N40SISO	Ant1	2422	10.63	≤30.00	PASS
11N40SISO	Ant1	2437	10.85	≤30.00	PASS
11N40SISO	Ant1	2452	10.90	≤30.00	PASS
11AX20SISO	Ant1	2412	10.88	≤30.00	PASS
11AX20SISO	Ant1	2437	10.98	≤30.00	PASS
11AX20SISO	Ant1	2462	10.97	≤30.00	PASS
11AX40SISO	Ant1	2422	10.76	≤30.00	PASS
11AX40SISO	Ant1	2437	10.84	≤30.00	PASS
11AX40SISO	Ant1	2452	10.89	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

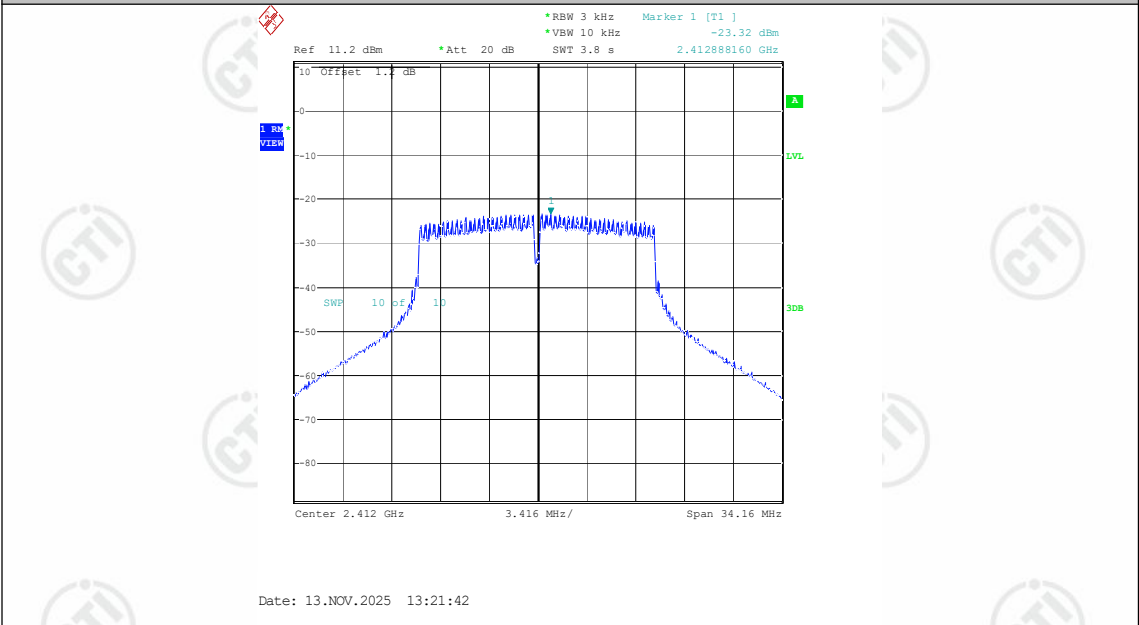
TestMode	Antenna	Frequency [MHz]	Result [dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-19.78	≤8.00	PASS
11B	Ant1	2437	-19.58	≤8.00	PASS
11B	Ant1	2462	-19.63	≤8.00	PASS
11G	Ant1	2412	-23.32	≤8.00	PASS
11G	Ant1	2437	-23.02	≤8.00	PASS
11G	Ant1	2462	-23.11	≤8.00	PASS
11N20SISO	Ant1	2412	-23.30	≤8.00	PASS
11N20SISO	Ant1	2437	-23.64	≤8.00	PASS
11N20SISO	Ant1	2462	-23.54	≤8.00	PASS
11N40SISO	Ant1	2422	-26.88	≤8.00	PASS
11N40SISO	Ant1	2437	-26.61	≤8.00	PASS
11N40SISO	Ant1	2452	-26.87	≤8.00	PASS
11AX20SISO	Ant1	2412	-24.93	≤8.00	PASS
11AX20SISO	Ant1	2437	-24.85	≤8.00	PASS
11AX20SISO	Ant1	2462	-24.64	≤8.00	PASS
11AX40SISO	Ant1	2422	-27.88	≤8.00	PASS
11AX40SISO	Ant1	2437	-27.81	≤8.00	PASS
11AX40SISO	Ant1	2452	-27.78	≤8.00	PASS

Test Graphs

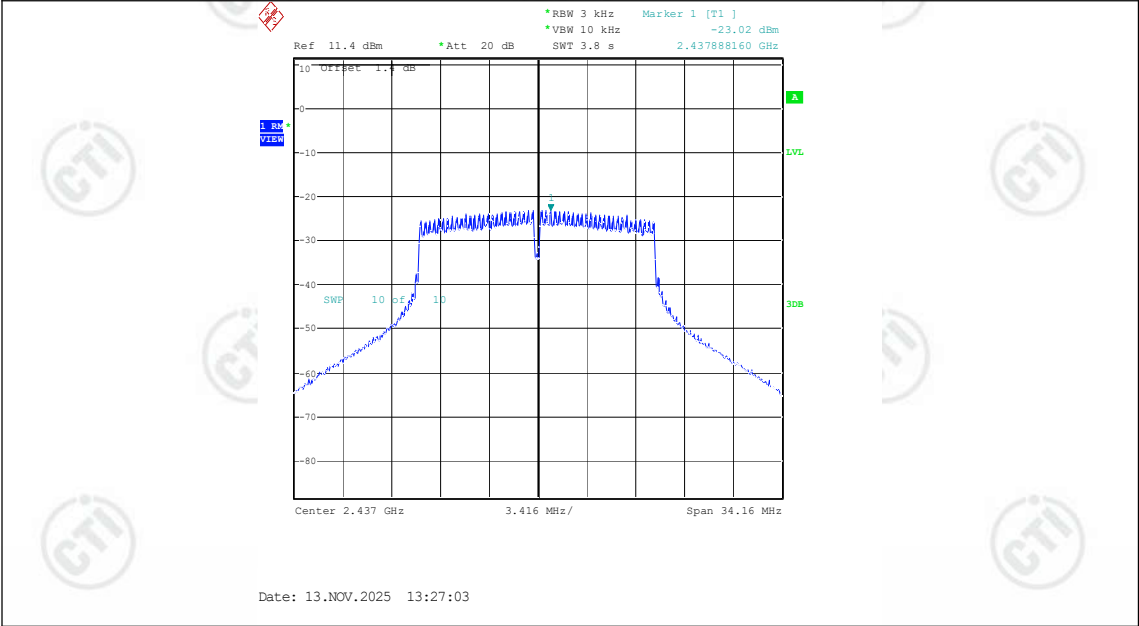




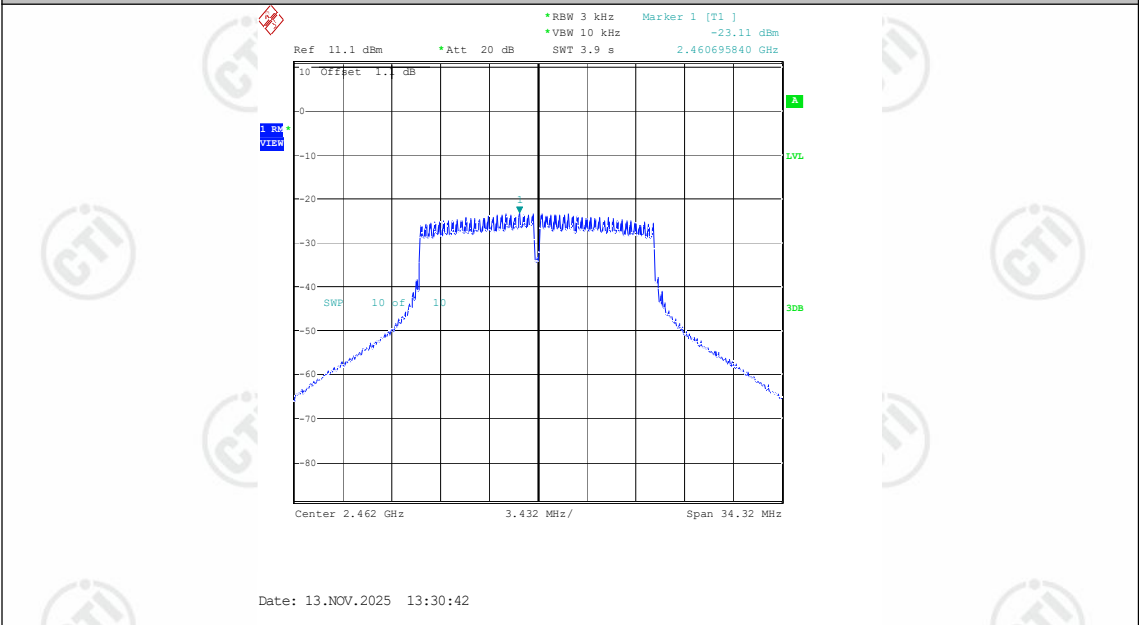
11B-Ant1-2462-PASS



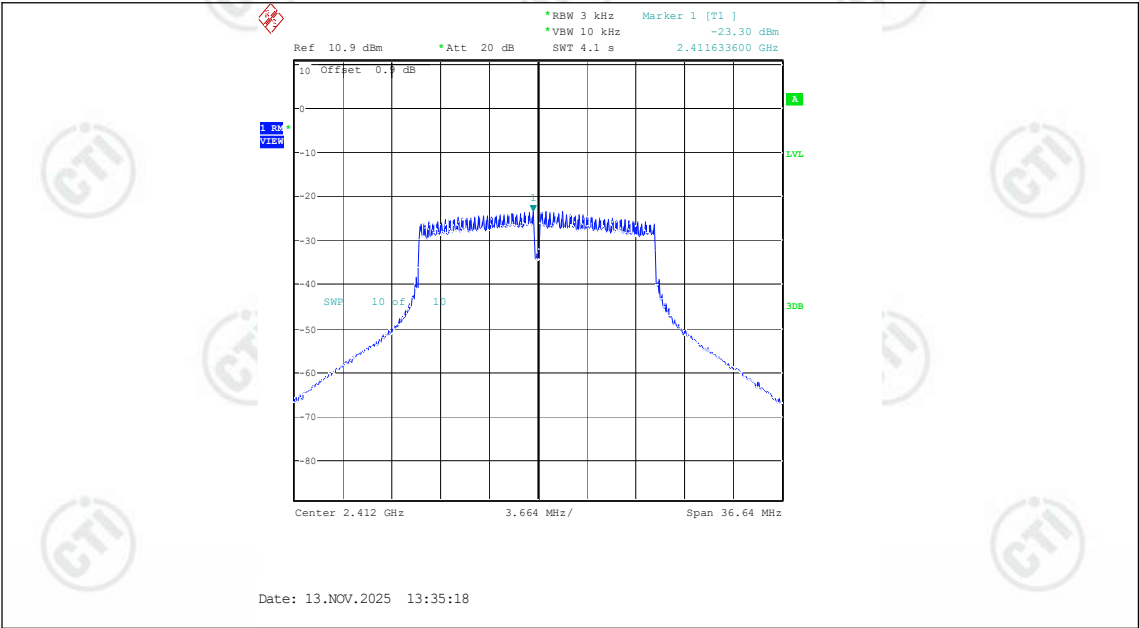
11G-Ant1-2412-PASS



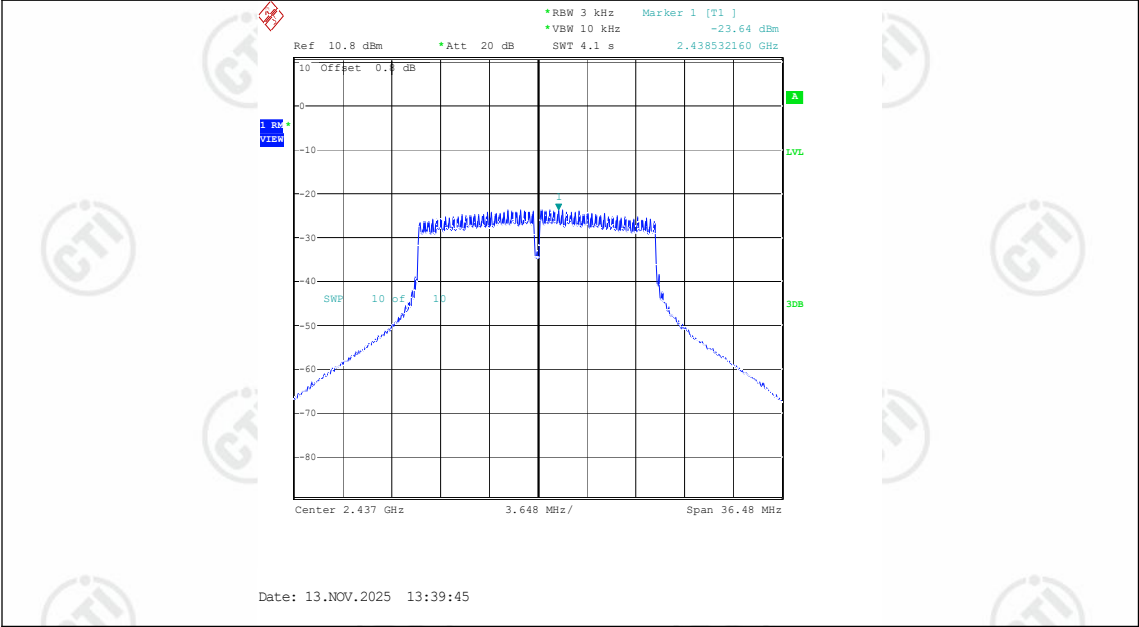
11G-Ant1-2437-PASS



11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS

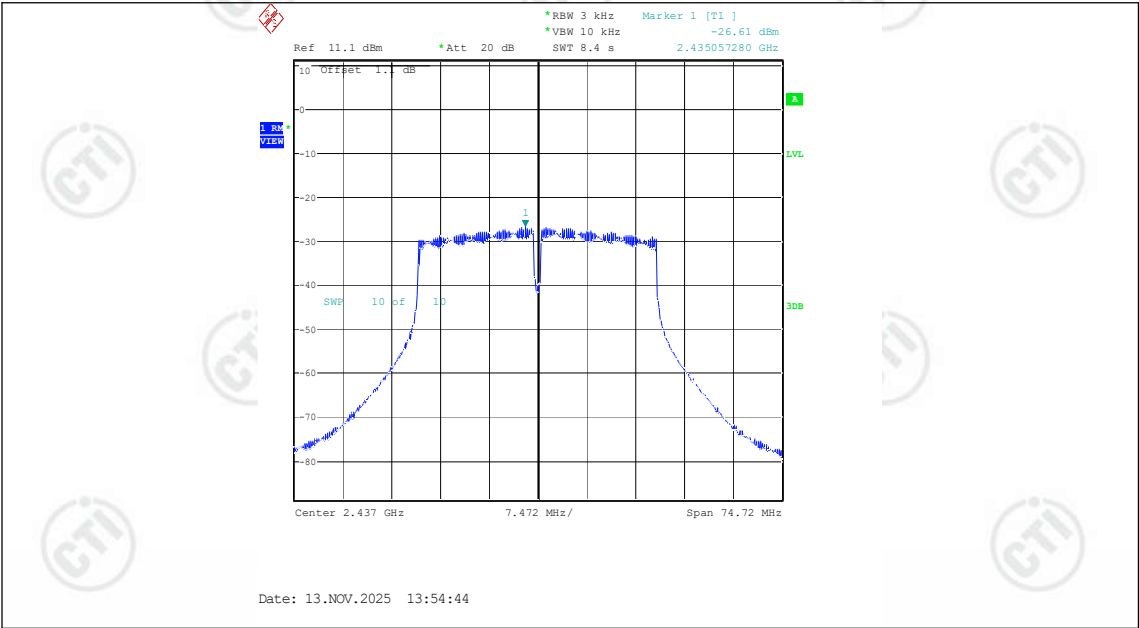


11N20SISO-Ant1-2437-PASS

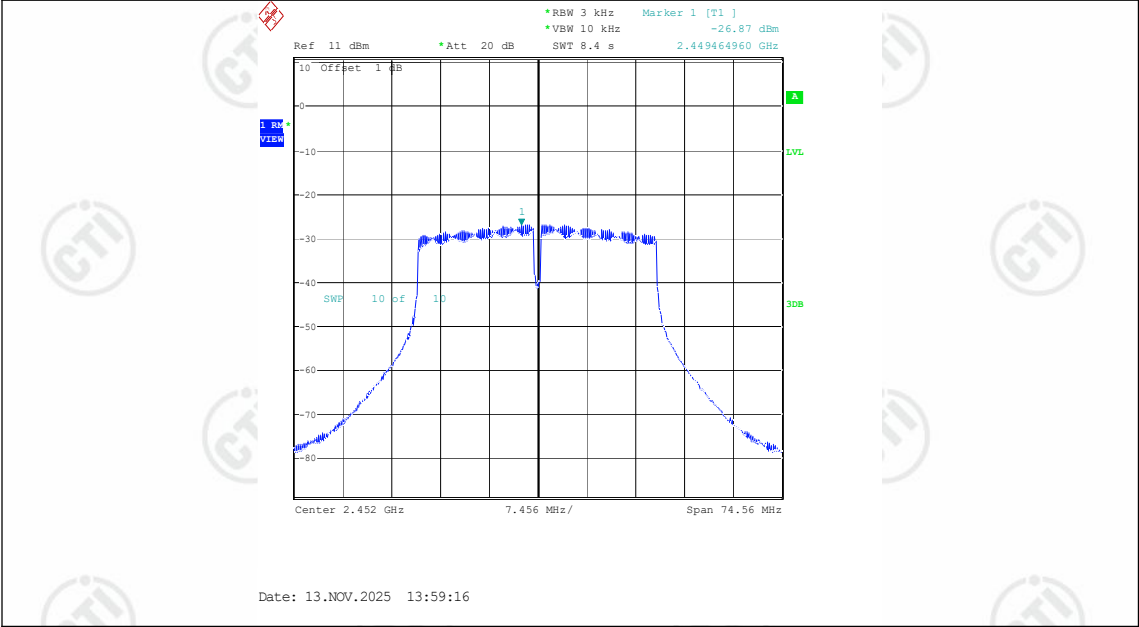


Date: 13.NOV.2025 13:48:44

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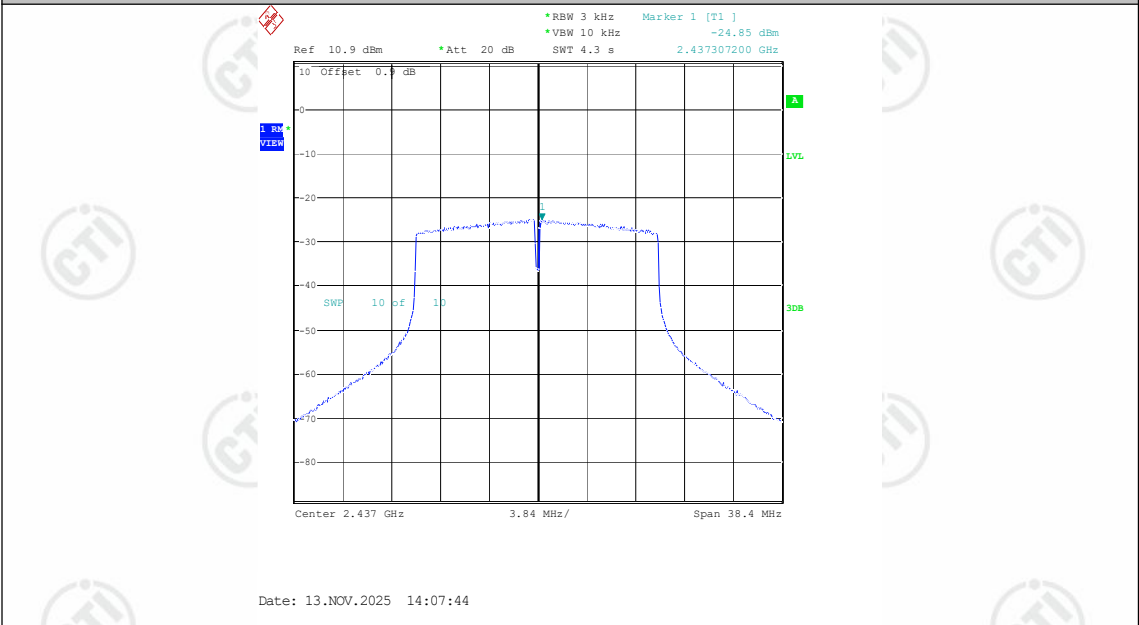
11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS



11AX20SISO-Ant1-2412-PASS



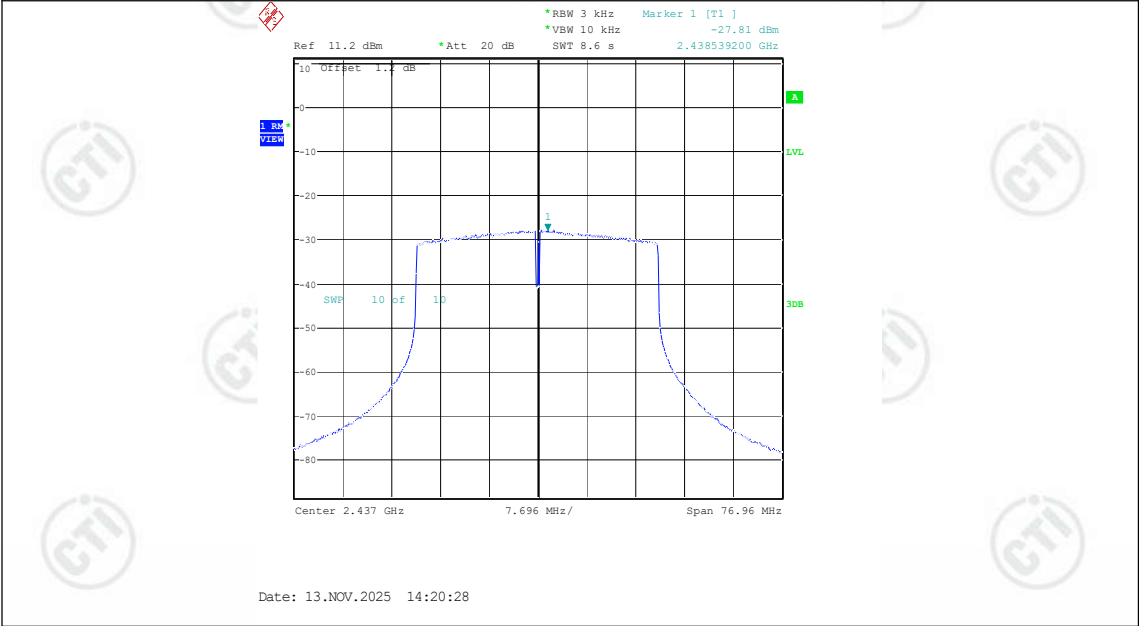
11AX20SISO-Ant1-2437-PASS



11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS



11AX40ISO-Ant1-2437-PASS



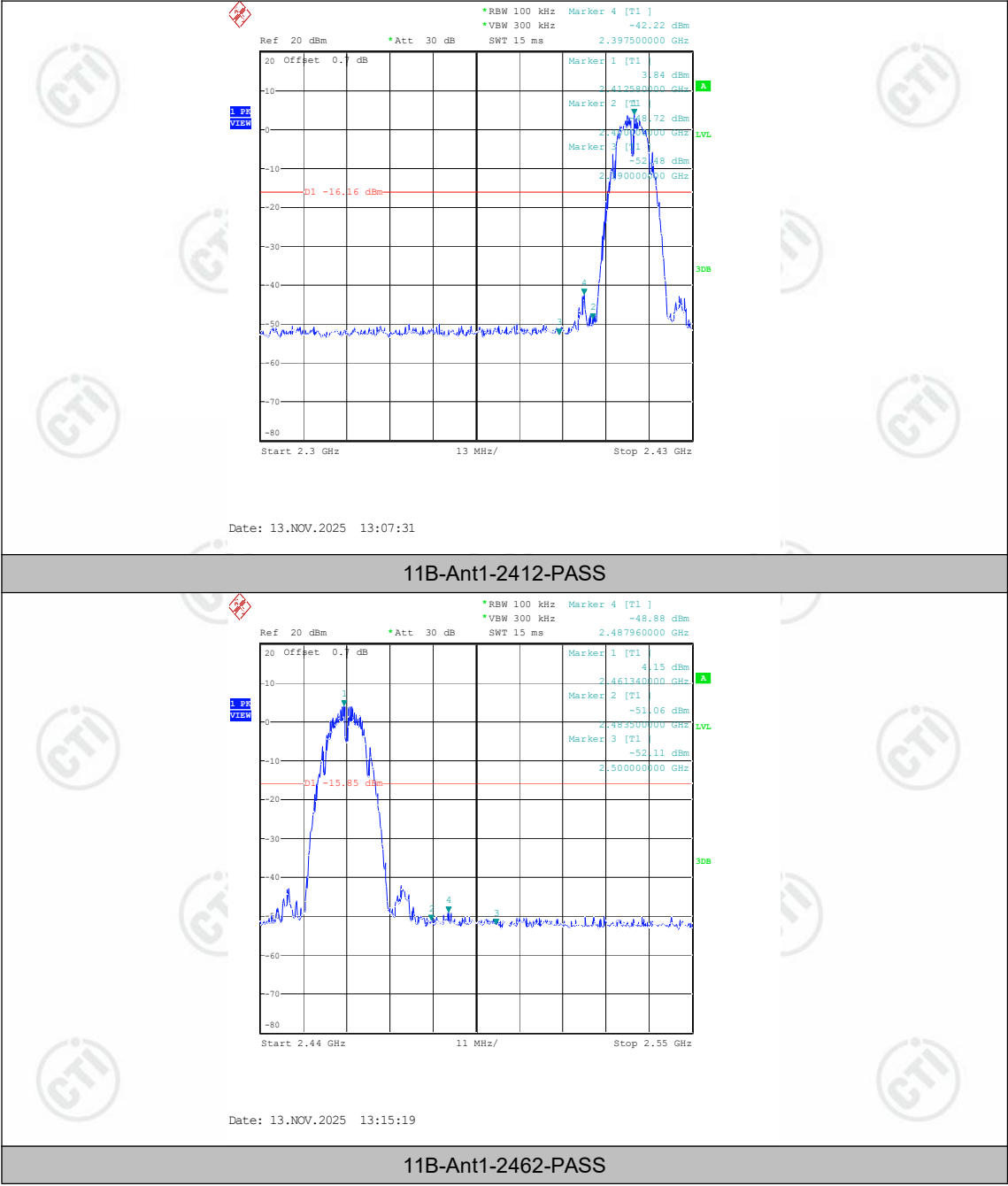
11AX40ISO-Ant1-2452-PASS

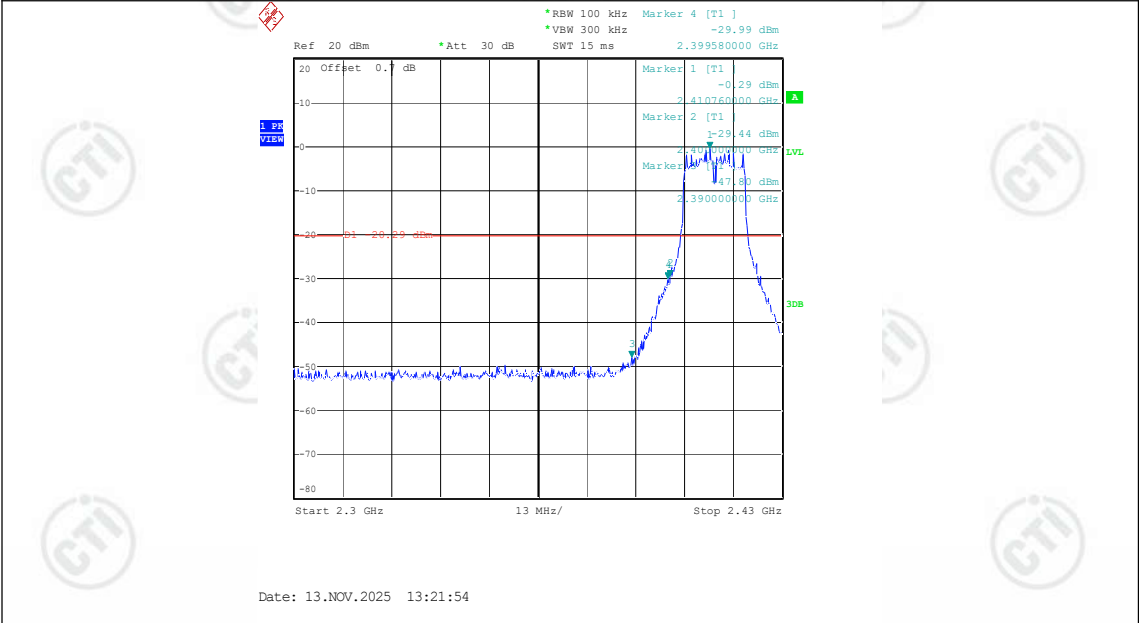
Appendix E: Band edge measurements

Test Result

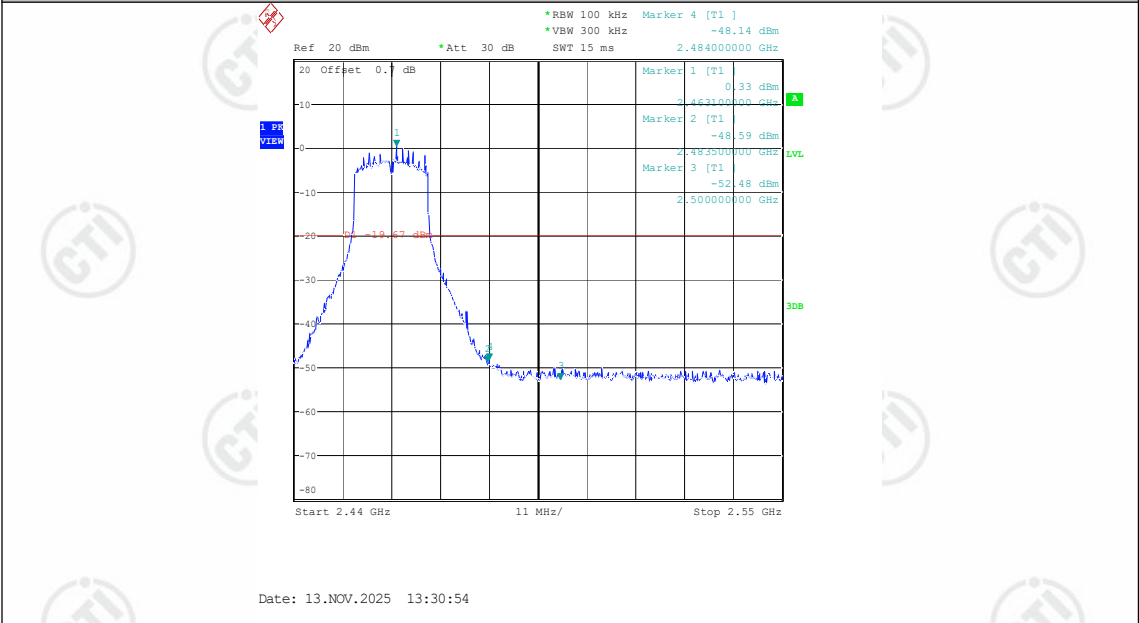
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	3.84	-42.22	≤-16.16	PASS
11B	Ant1	High	2462	4.15	-48.88	≤-15.85	PASS
11G	Ant1	Low	2412	-0.29	-29.99	≤-20.29	PASS
11G	Ant1	High	2462	0.33	-48.14	≤-19.67	PASS
11N20SISO	Ant1	Low	2412	0.44	-30.11	≤-19.56	PASS
11N20SISO	Ant1	High	2462	-0.24	-47.75	≤-20.24	PASS
11N40SISO	Ant1	Low	2422	-3.31	-33.26	≤-23.31	PASS
11N40SISO	Ant1	High	2452	-2.68	-46.77	≤-22.68	PASS
11AX20SISO	Ant1	Low	2412	-0.28	-30.76	≤-20.28	PASS
11AX20SISO	Ant1	High	2462	0.51	-48.21	≤-19.49	PASS
11AX40SISO	Ant1	Low	2422	-3.13	-36.15	≤-23.13	PASS
11AX40SISO	Ant1	High	2452	-3.18	-46.55	≤-23.18	PASS

Test Graphs

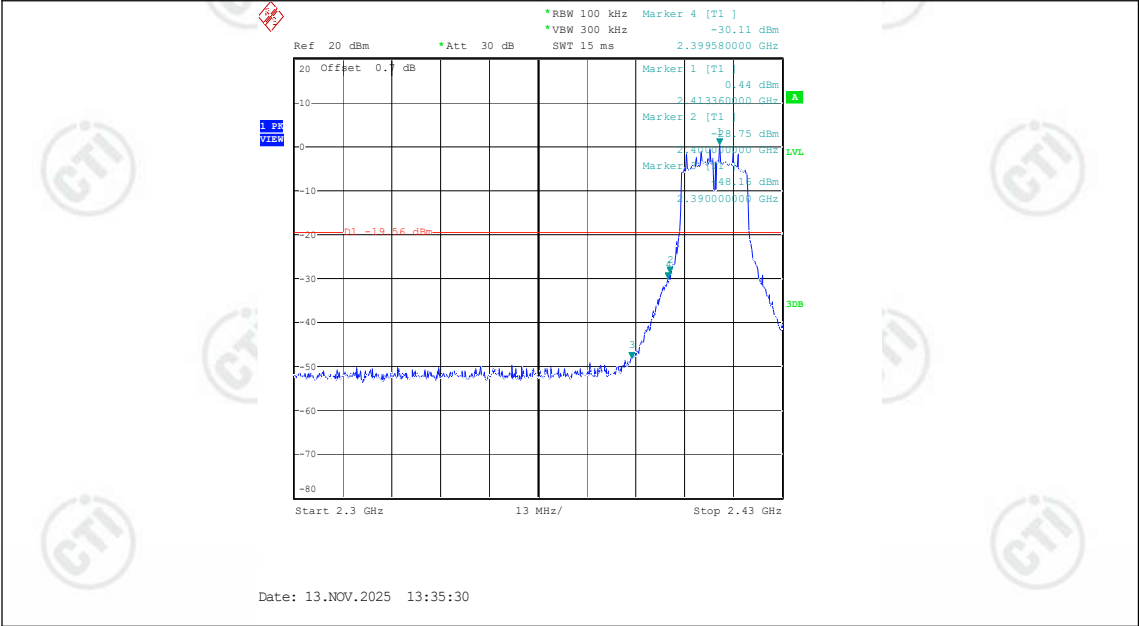




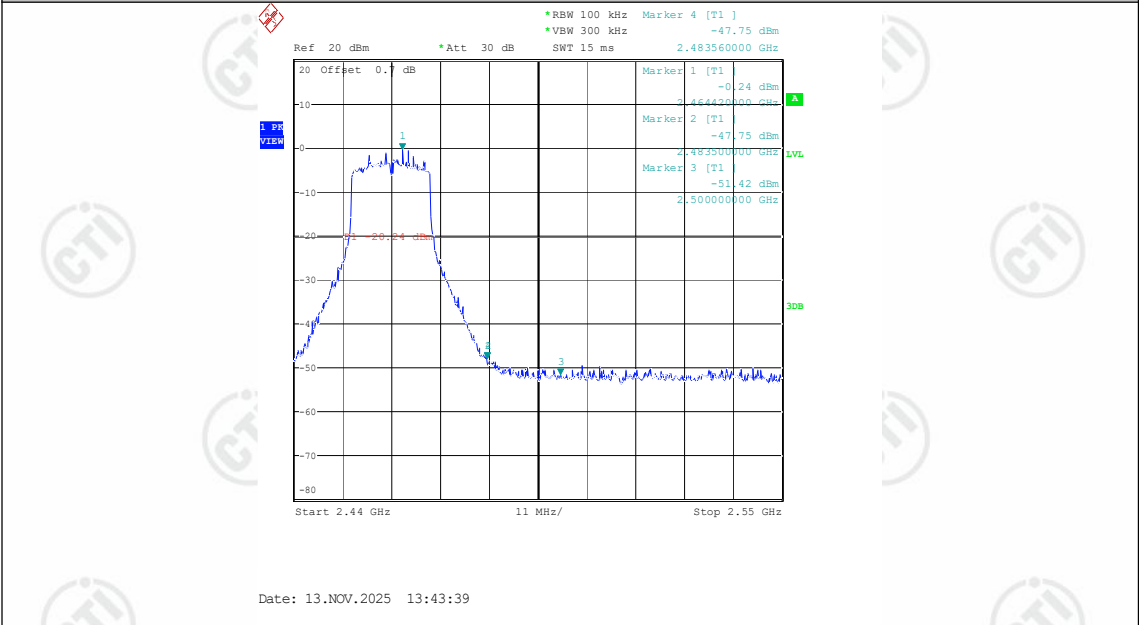
11G-Ant1-2412-PASS



11G-Ant1-2462-PASS



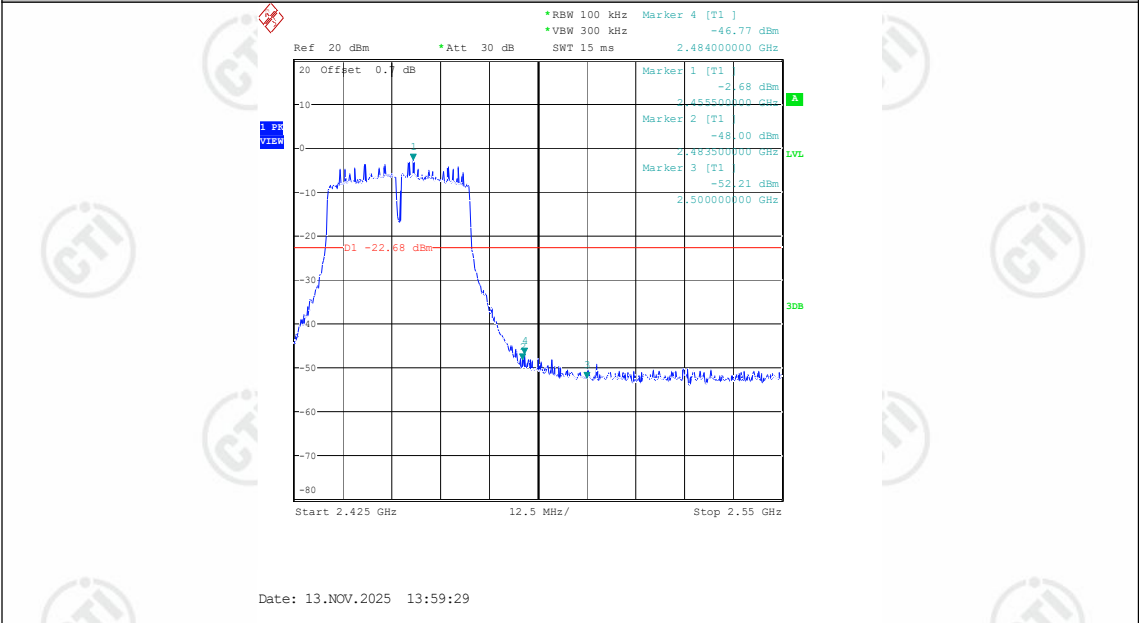
11N20SISO-Ant1-2412-PASS



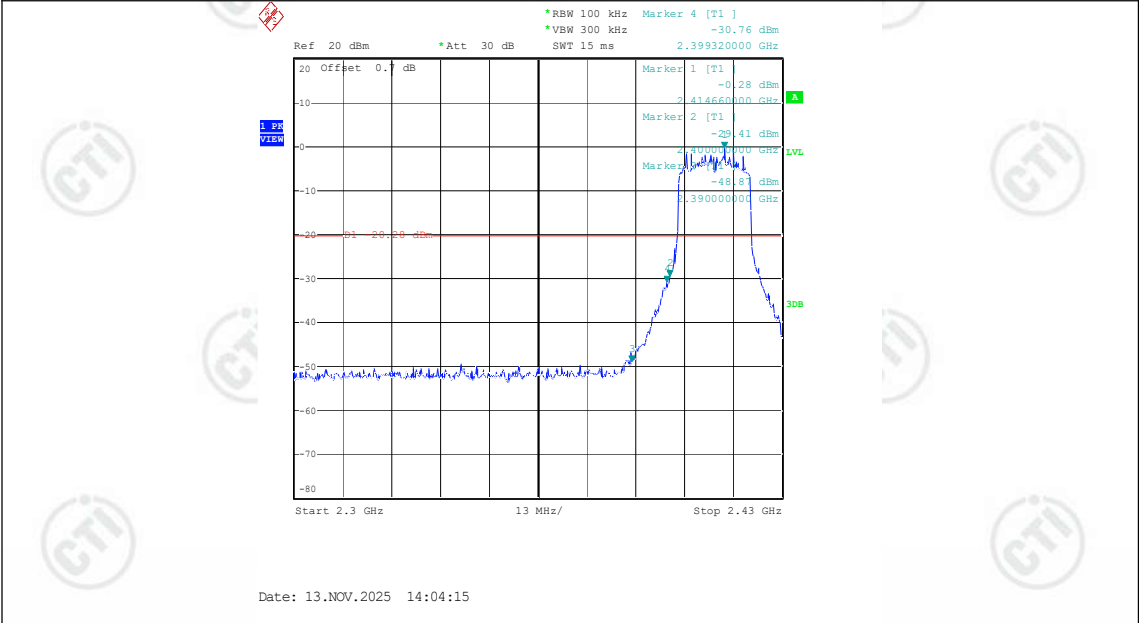
11N20SISO-Ant1-2462-PASS



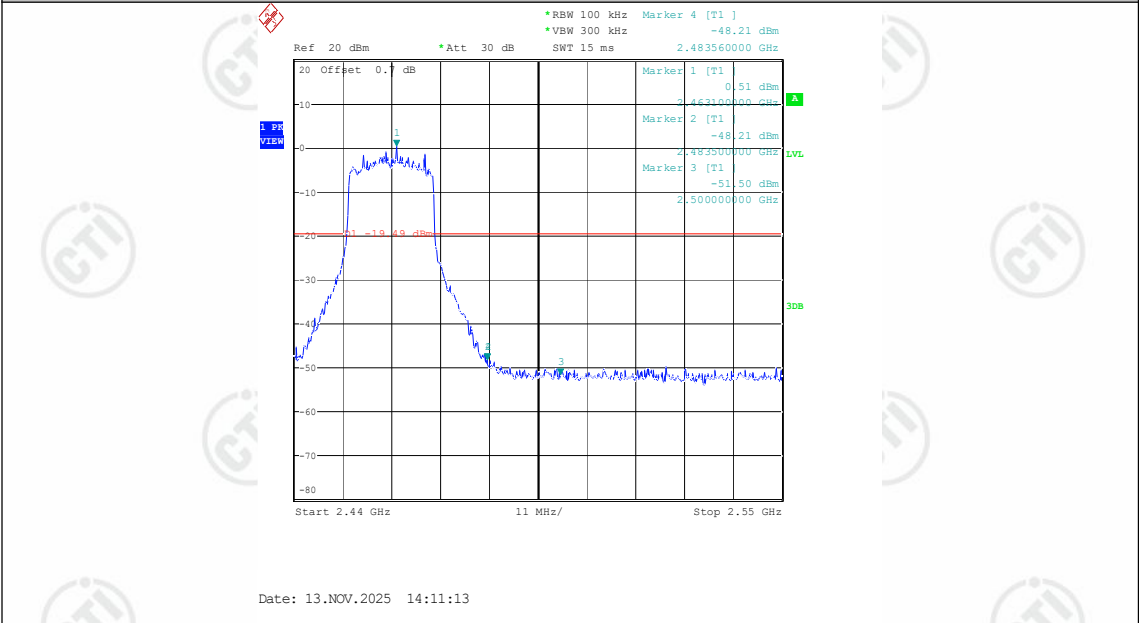
11N40SISO-Ant1-2422-PASS



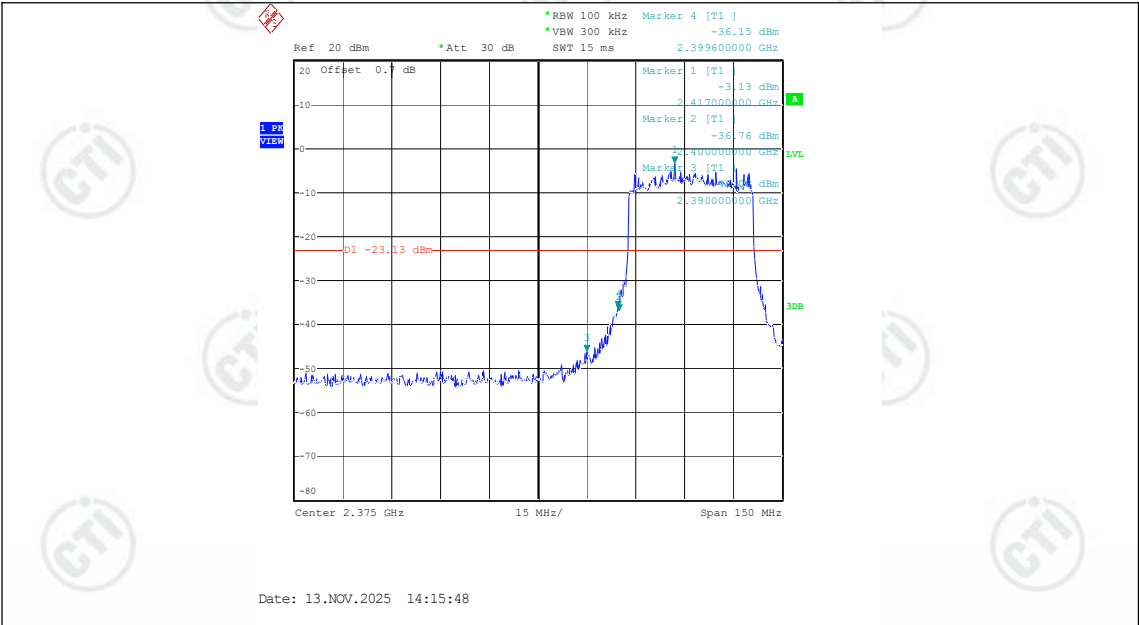
11N40SISO-Ant1-2452-PASS



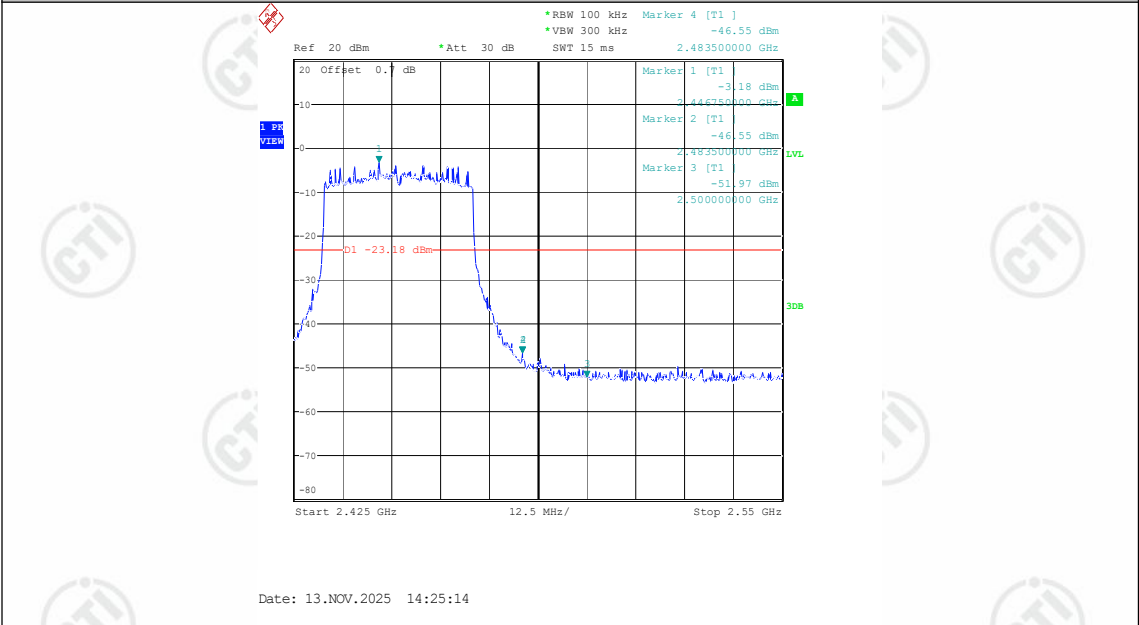
11AX20SISO-Ant1-2412-PASS



11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2452-PASS

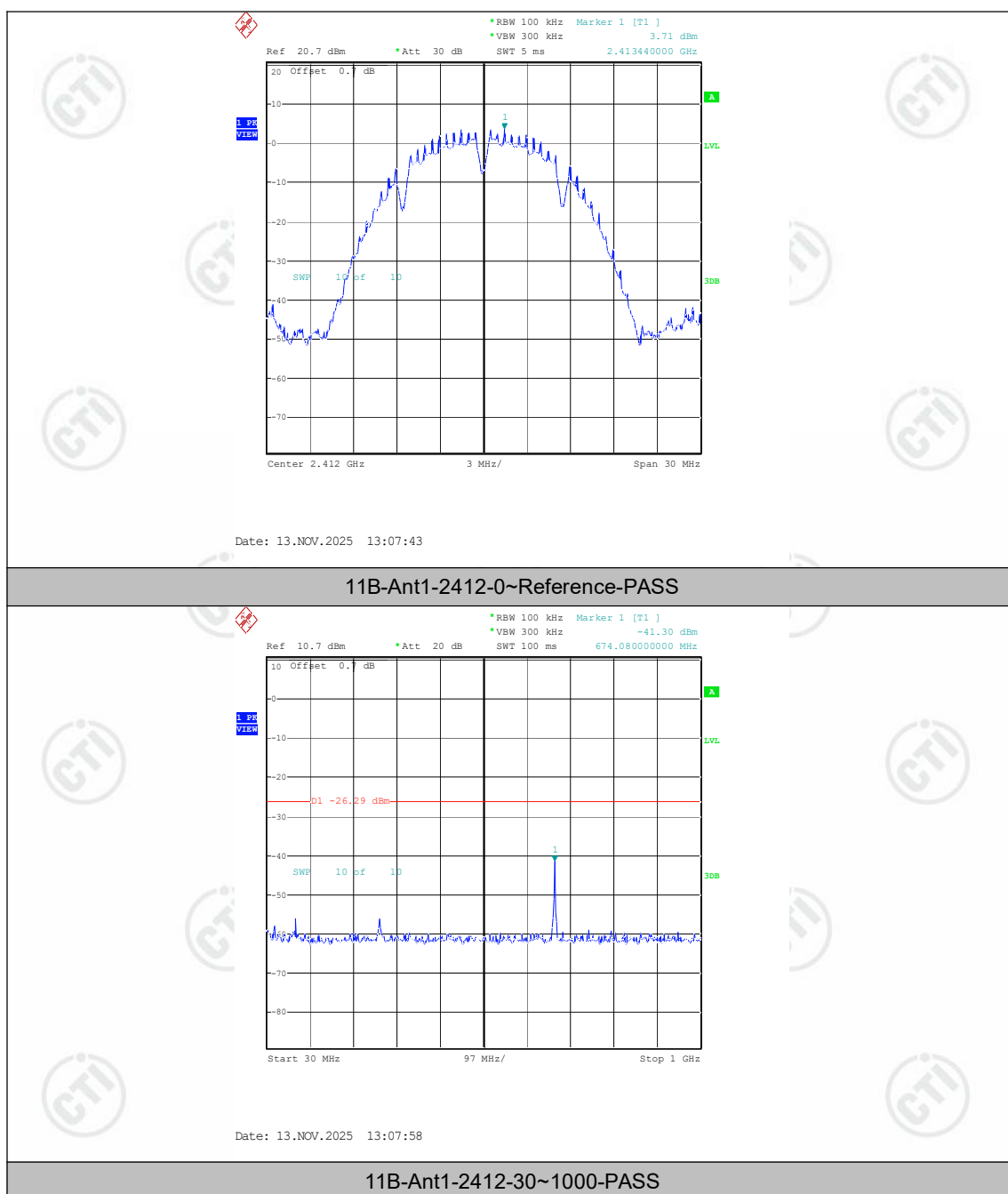
Appendix F: Conducted Spurious Emission

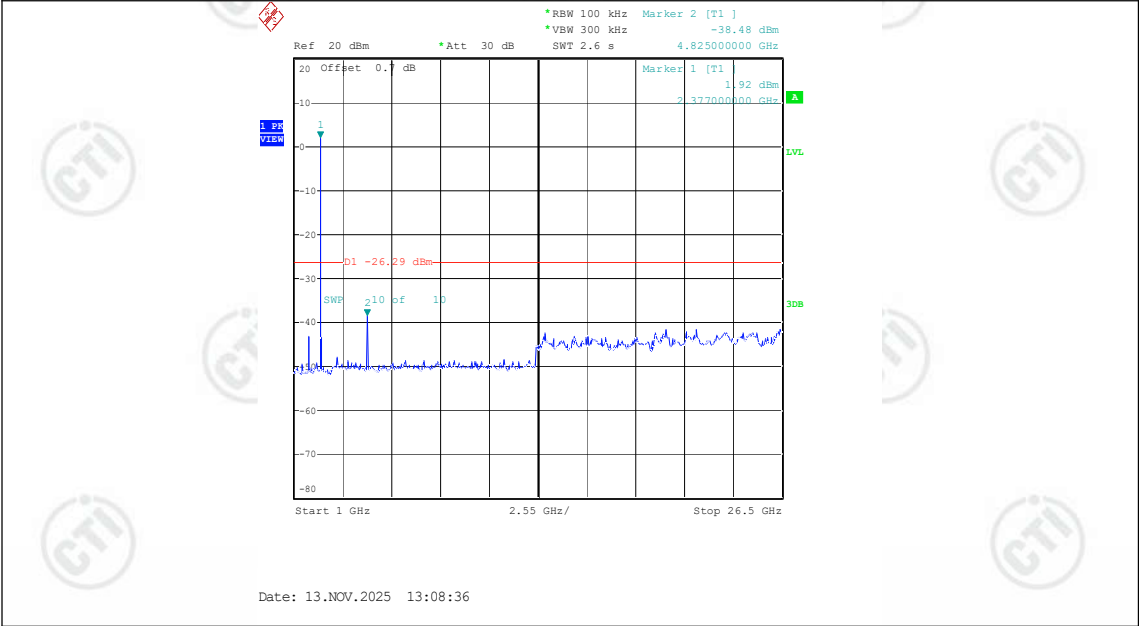
Test Result

TestMode	Antenna	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	3.71	3.71	---	PASS
11B	Ant1	2412	30~1000	3.71	-41.3	≤-26.29	PASS
11B	Ant1	2412	1000~26500	3.71	-38.48	≤-26.29	PASS
11B	Ant1	2437	0~Reference	3.99	3.99	---	PASS
11B	Ant1	2437	30~1000	3.99	-41.18	≤-26.01	PASS
11B	Ant1	2437	1000~26500	3.99	-40.34	≤-26.01	PASS
11B	Ant1	2462	0~Reference	4.11	4.11	---	PASS
11B	Ant1	2462	30~1000	4.11	-40.29	≤-25.89	PASS
11B	Ant1	2462	1000~26500	4.11	-39.42	≤-25.89	PASS
11G	Ant1	2412	0~Reference	0.16	0.16	---	PASS
11G	Ant1	2412	30~1000	0.16	-51.13	≤-29.84	PASS
11G	Ant1	2412	1000~26500	0.16	-41.28	≤-29.84	PASS
11G	Ant1	2437	0~Reference	-0.03	-0.03	---	PASS
11G	Ant1	2437	30~1000	-0.03	-49.54	≤-30.03	PASS
11G	Ant1	2437	1000~26500	-0.03	-41.24	≤-30.03	PASS
11G	Ant1	2462	0~Reference	0.27	0.27	---	PASS
11G	Ant1	2462	30~1000	0.27	-49.39	≤-29.73	PASS
11G	Ant1	2462	1000~26500	0.27	-41.62	≤-29.73	PASS
11N20SISO	Ant1	2412	0~Reference	-0.75	-0.75	---	PASS
11N20SISO	Ant1	2412	30~1000	-0.75	-50.8	≤-30.75	PASS
11N20SISO	Ant1	2412	1000~26500	-0.75	-41.4	≤-30.75	PASS
11N20SISO	Ant1	2437	0~Reference	-0.15	-0.15	---	PASS
11N20SISO	Ant1	2437	30~1000	-0.15	-50.19	≤-30.15	PASS
11N20SISO	Ant1	2437	1000~26500	-0.15	-41.89	≤-30.15	PASS
11N20SISO	Ant1	2462	0~Reference	-0.25	-0.25	---	PASS
11N20SISO	Ant1	2462	30~1000	-0.25	-50.19	≤-30.25	PASS
11N20SISO	Ant1	2462	1000~26500	-0.25	-41.76	≤-30.25	PASS
11N40SISO	Ant1	2422	0~Reference	-2.90	-2.90	---	PASS
11N40SISO	Ant1	2422	30~1000	-2.90	-53.61	≤-32.9	PASS
11N40SISO	Ant1	2422	1000~26500	-2.90	-41.76	≤-32.9	PASS
11N40SISO	Ant1	2437	0~Reference	-3.13	-3.13	---	PASS
11N40SISO	Ant1	2437	30~1000	-3.13	-53.12	≤-33.13	PASS
11N40SISO	Ant1	2437	1000~26500	-3.13	-40.86	≤-33.13	PASS
11N40SISO	Ant1	2452	0~Reference	-2.93	-2.93	---	PASS
11N40SISO	Ant1	2452	30~1000	-2.93	-50.1	≤-32.93	PASS
11N40SISO	Ant1	2452	1000~26500	-2.93	-40.8	≤-32.93	PASS

11AX20SISO	Ant1	2412	0~Reference	0.29	0.29	---	PASS
11AX20SISO	Ant1	2412	30~1000	0.29	-51.82	≤ -29.71	PASS
11AX20SISO	Ant1	2412	1000~26500	0.29	-40.81	≤ -29.71	PASS
11AX20SISO	Ant1	2437	0~Reference	-0.19	-0.19	---	PASS
11AX20SISO	Ant1	2437	30~1000	-0.19	-50.78	≤ -30.19	PASS
11AX20SISO	Ant1	2437	1000~26500	-0.19	-41.63	≤ -30.19	PASS
11AX20SISO	Ant1	2462	0~Reference	0.35	0.35	---	PASS
11AX20SISO	Ant1	2462	30~1000	0.35	-50.53	≤ -29.65	PASS
11AX20SISO	Ant1	2462	1000~26500	0.35	-40.88	≤ -29.65	PASS
11AX40SISO	Ant1	2422	0~Reference	-2.63	-2.63	---	PASS
11AX40SISO	Ant1	2422	30~1000	-2.63	-53.76	≤ -32.63	PASS
11AX40SISO	Ant1	2422	1000~26500	-2.63	-41.81	≤ -32.63	PASS
11AX40SISO	Ant1	2437	0~Reference	-2.73	-2.73	---	PASS
11AX40SISO	Ant1	2437	30~1000	-2.73	-53.13	≤ -32.73	PASS
11AX40SISO	Ant1	2437	1000~26500	-2.73	-40.9	≤ -32.73	PASS
11AX40SISO	Ant1	2452	0~Reference	-3.32	-3.32	---	PASS
11AX40SISO	Ant1	2452	30~1000	-3.32	-52.78	≤ -33.32	PASS
11AX40SISO	Ant1	2452	1000~26500	-3.32	-41.31	≤ -33.32	PASS

Test Graphs

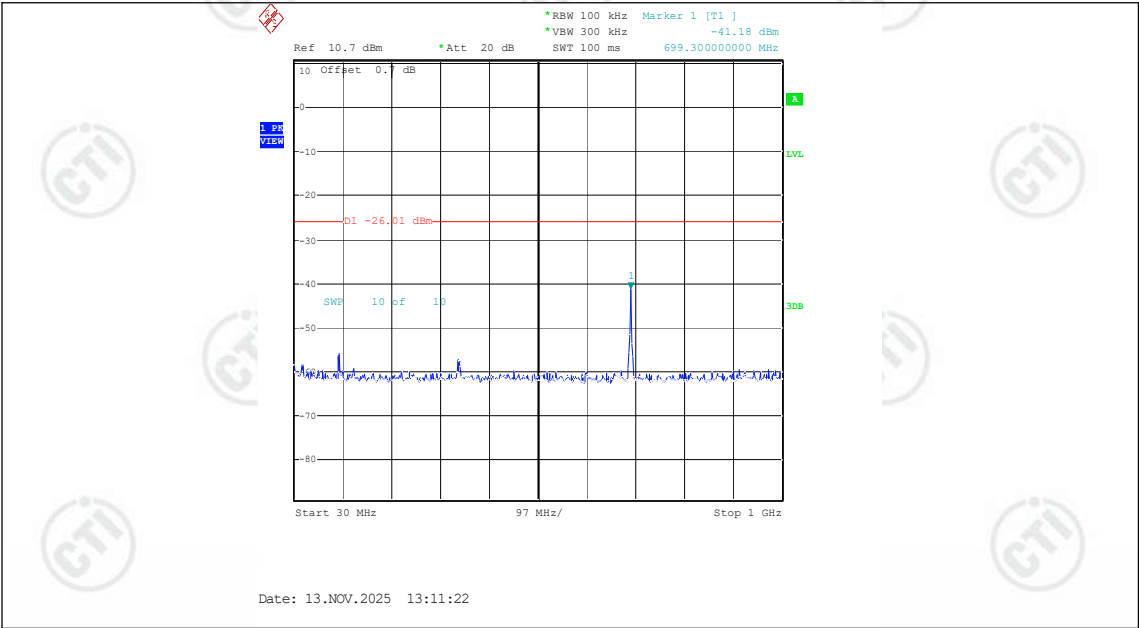




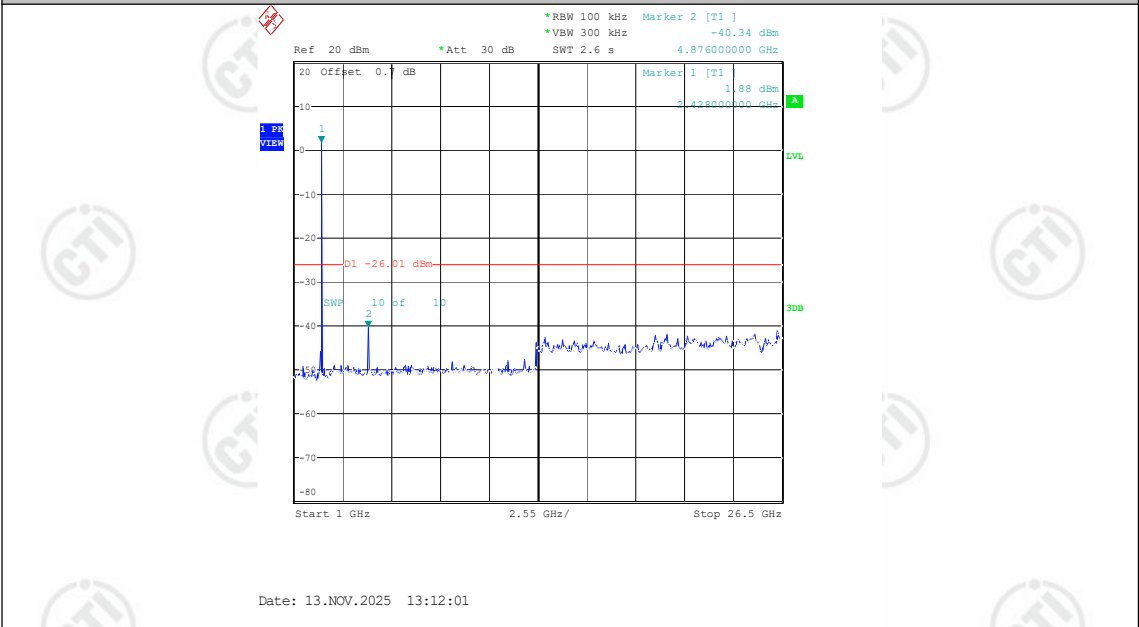
11B-Ant1-2412-1000~26500-PASS



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



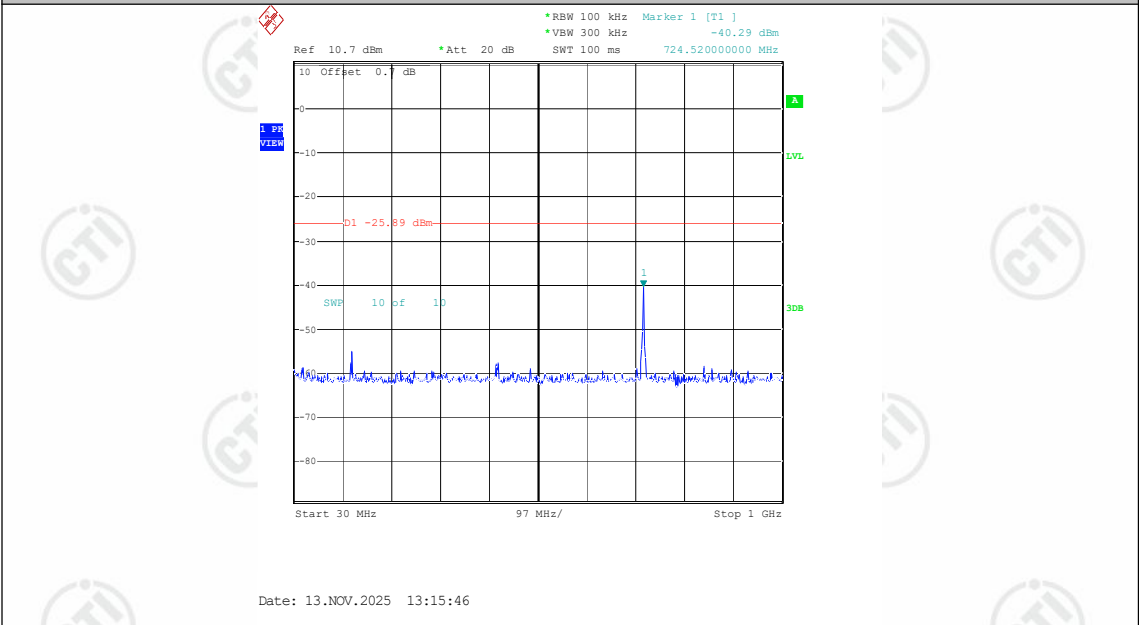
11B-Ant1-2437-30~1000-PASS



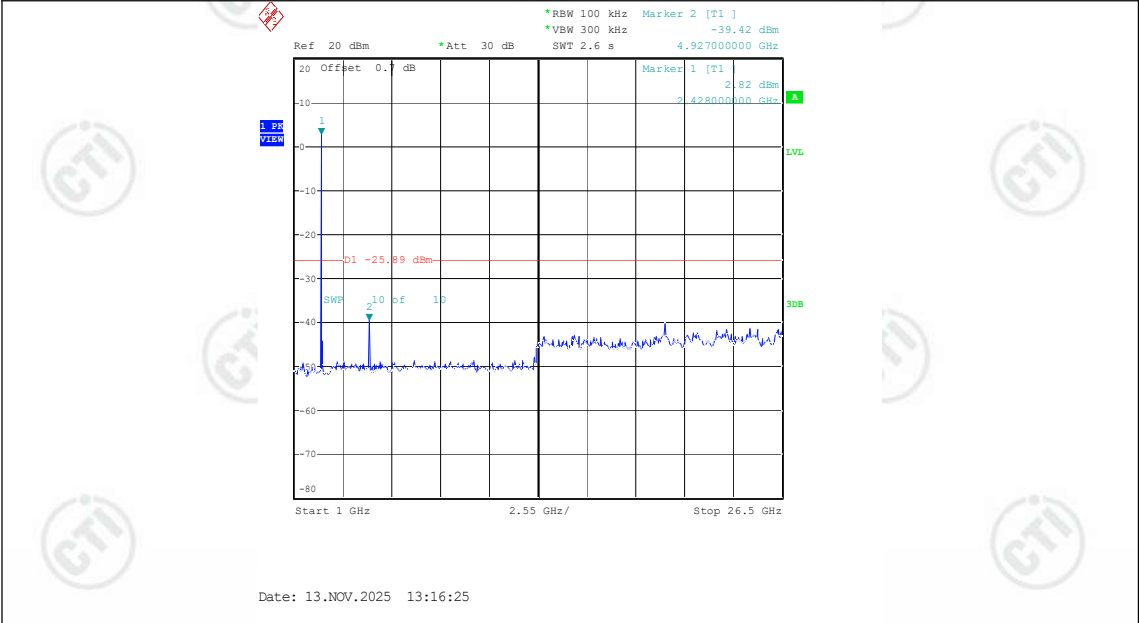
11B-Ant1-2437-1000~26500-PASS



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



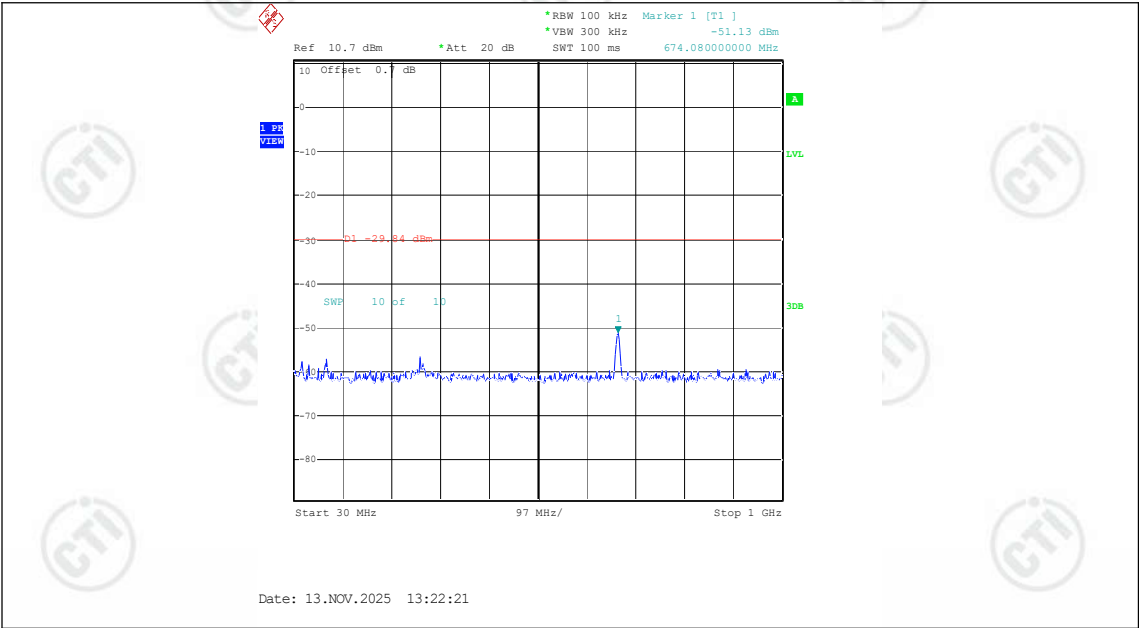
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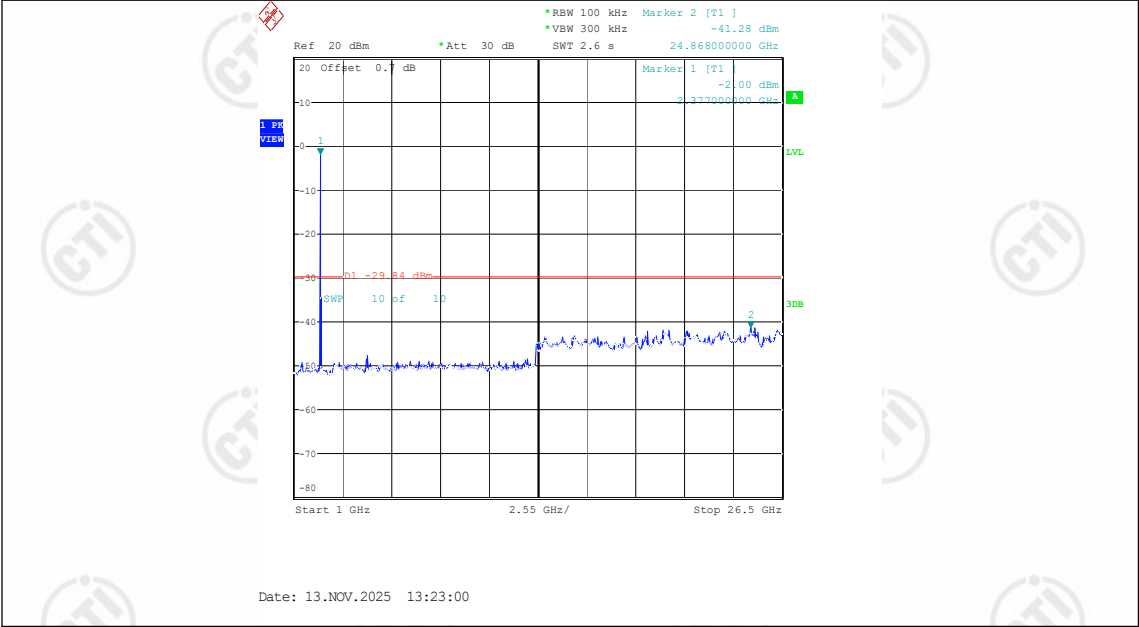
11B-Ant1-2462-1000~26500-PASS



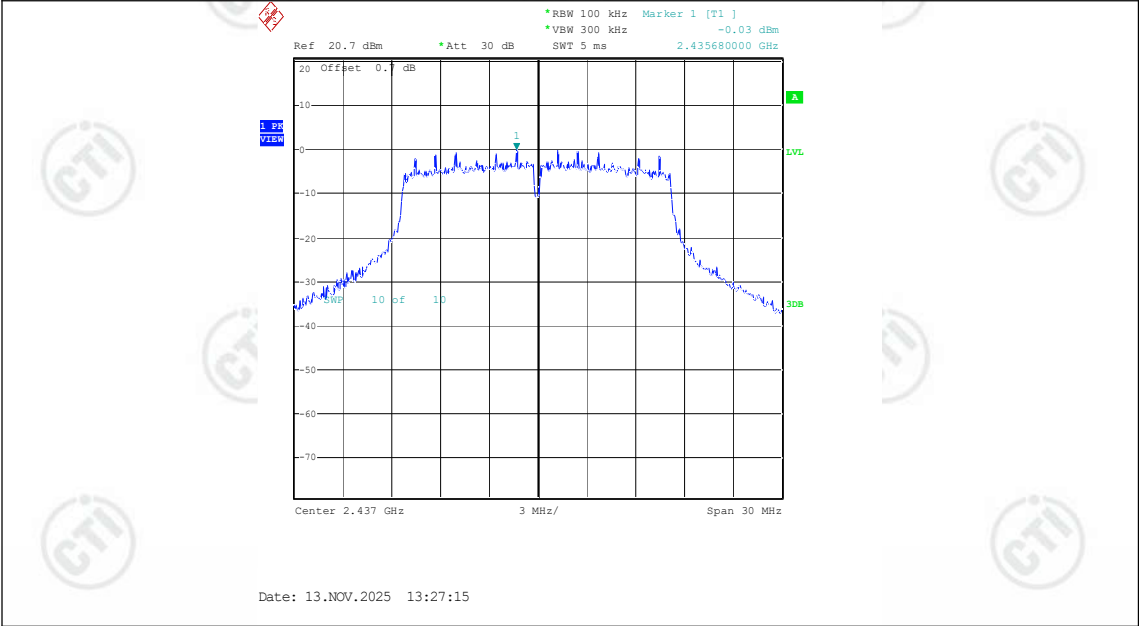
11G-Ant1-2412-0~Reference-PASS



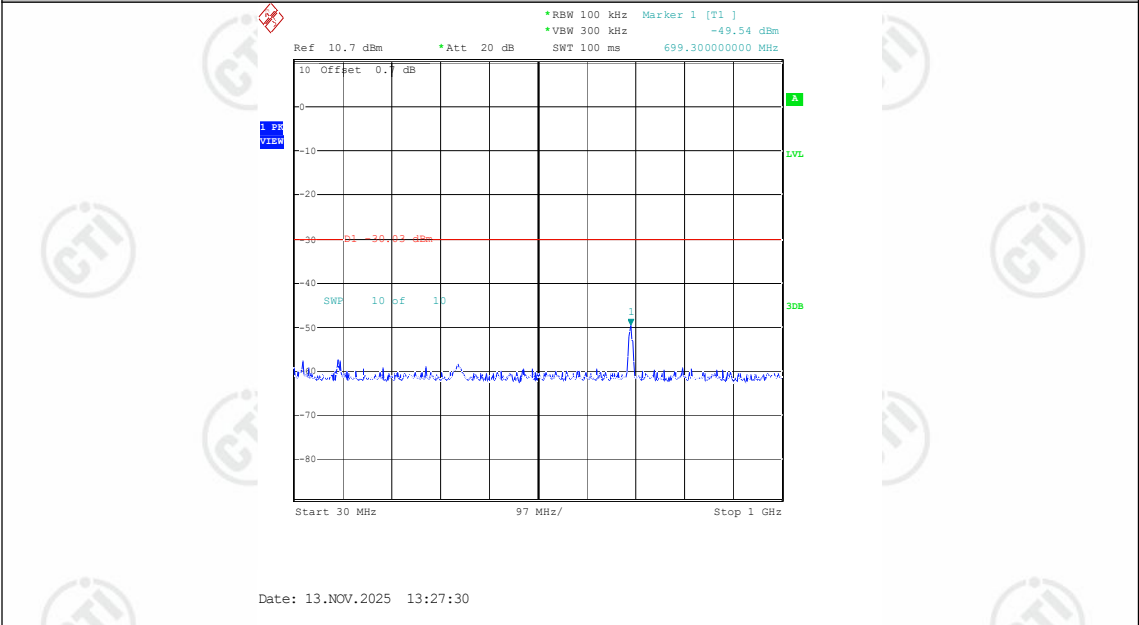
11G-Ant1-2412-30~1000-PASS



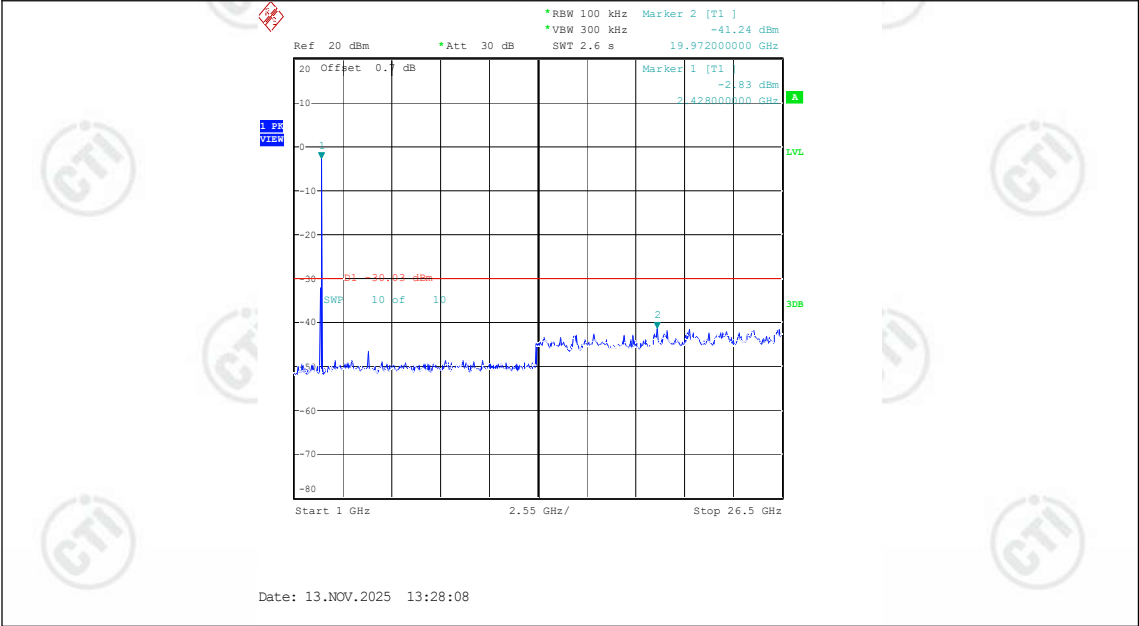
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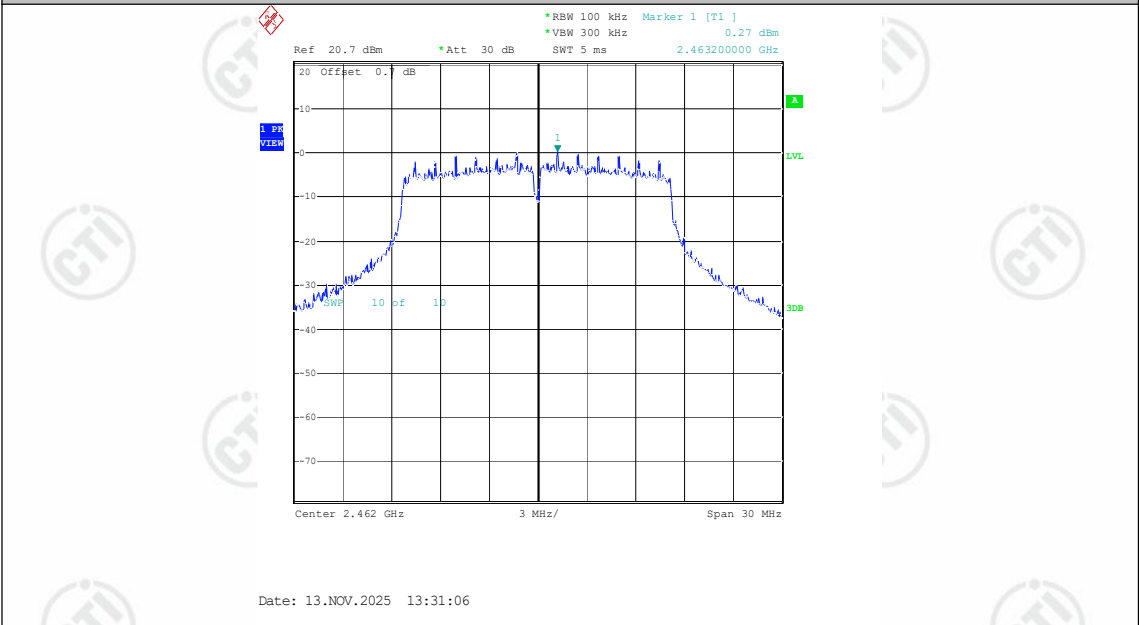
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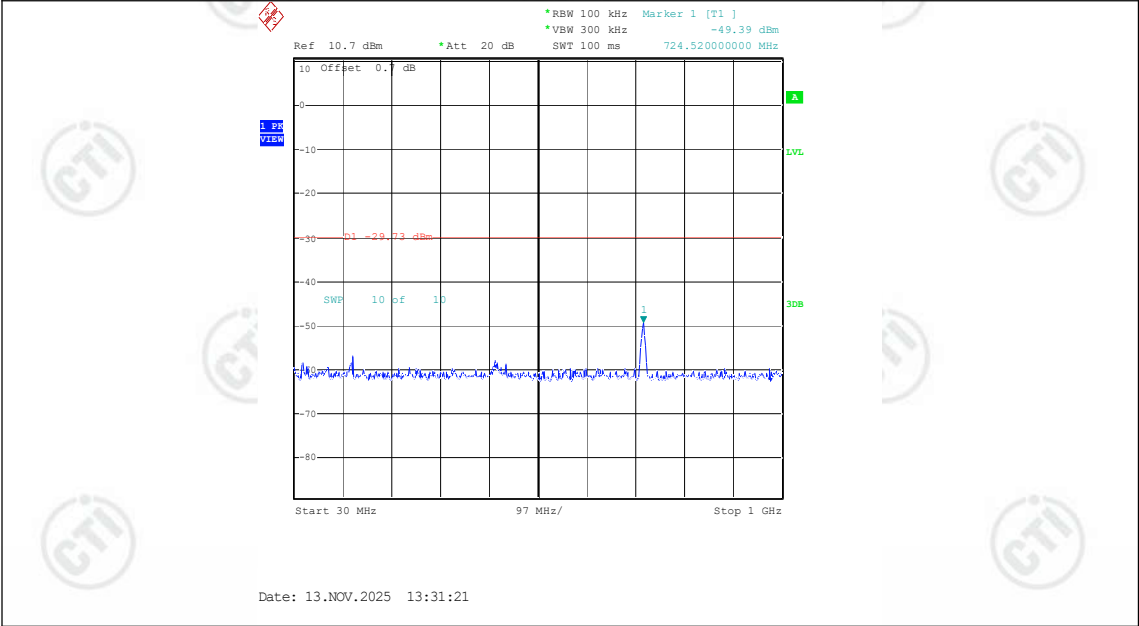
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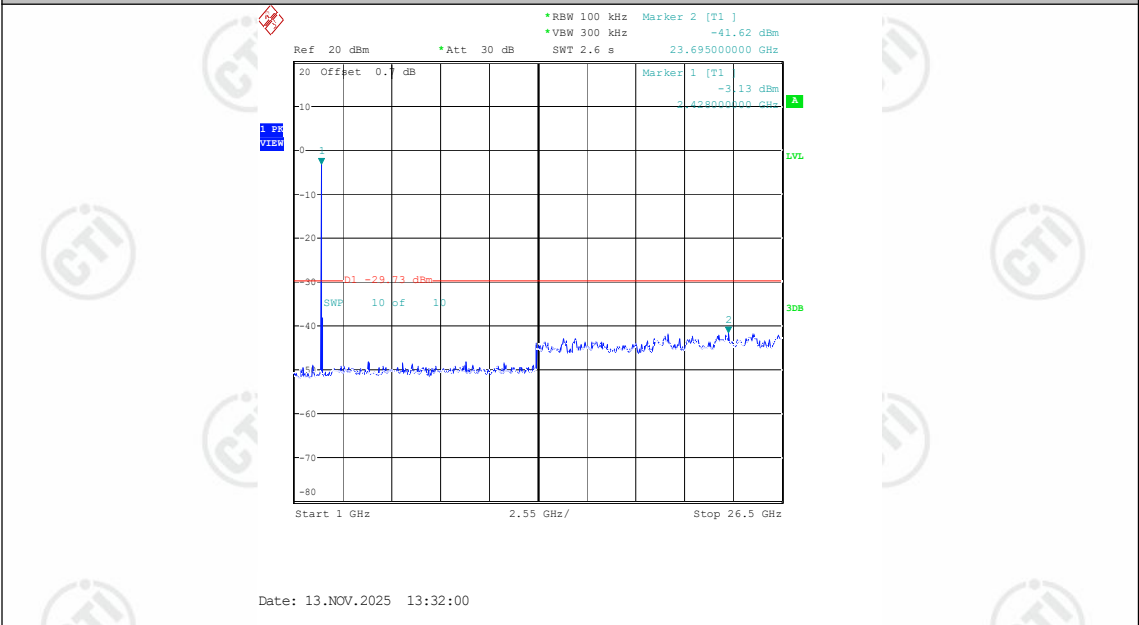
11G-Ant1-2437-1000~26500-PASS



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



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

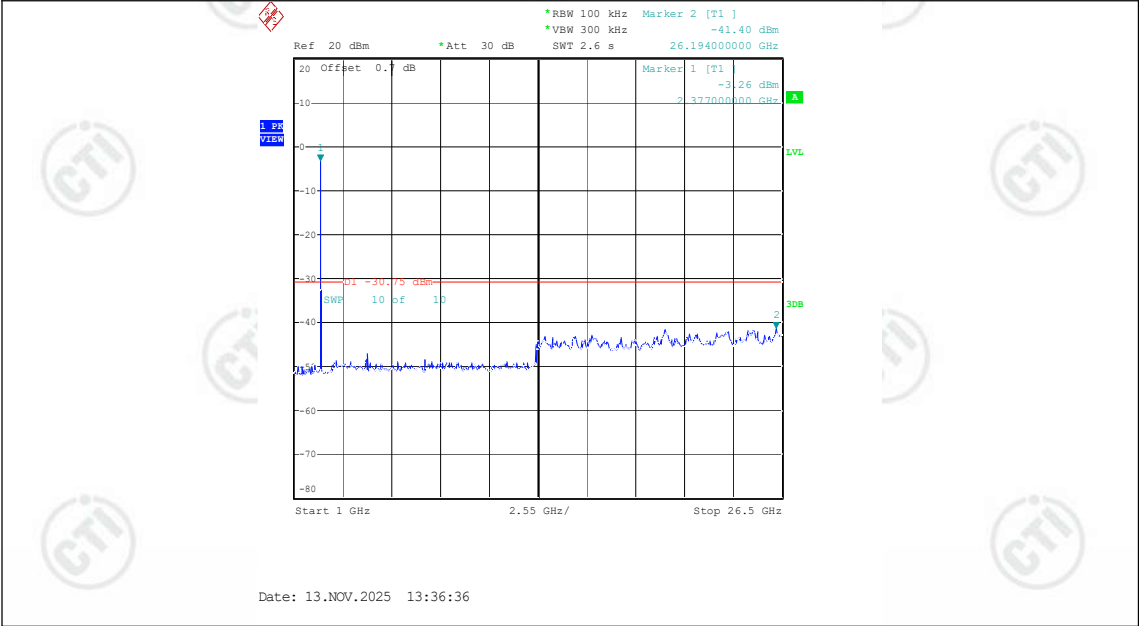


11G-Ant1-2462-1000~26500-PASS

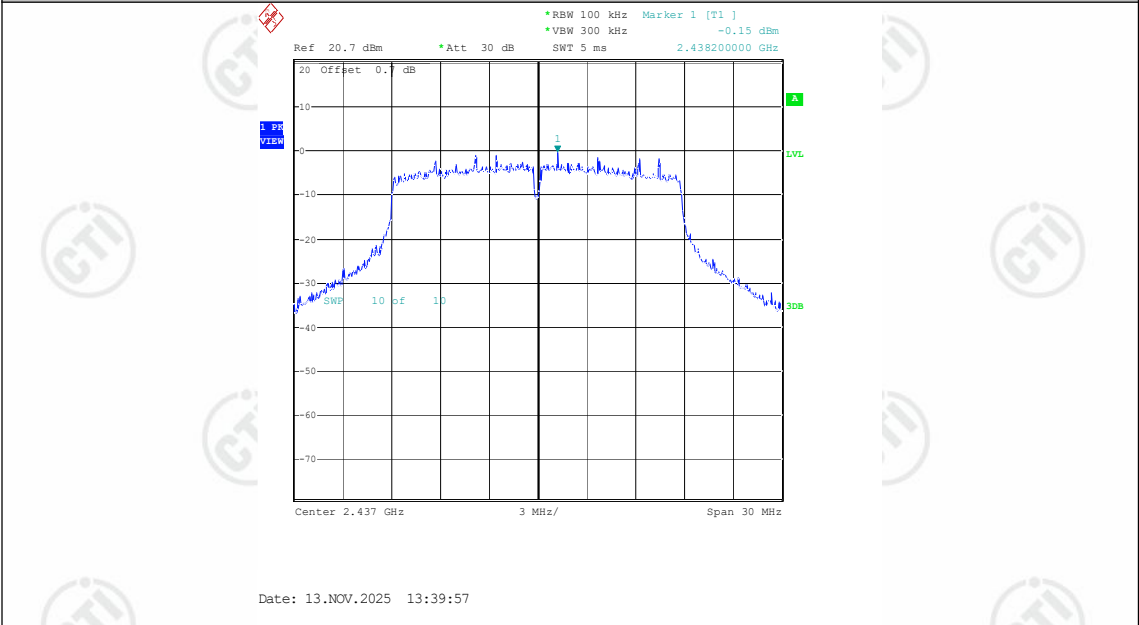


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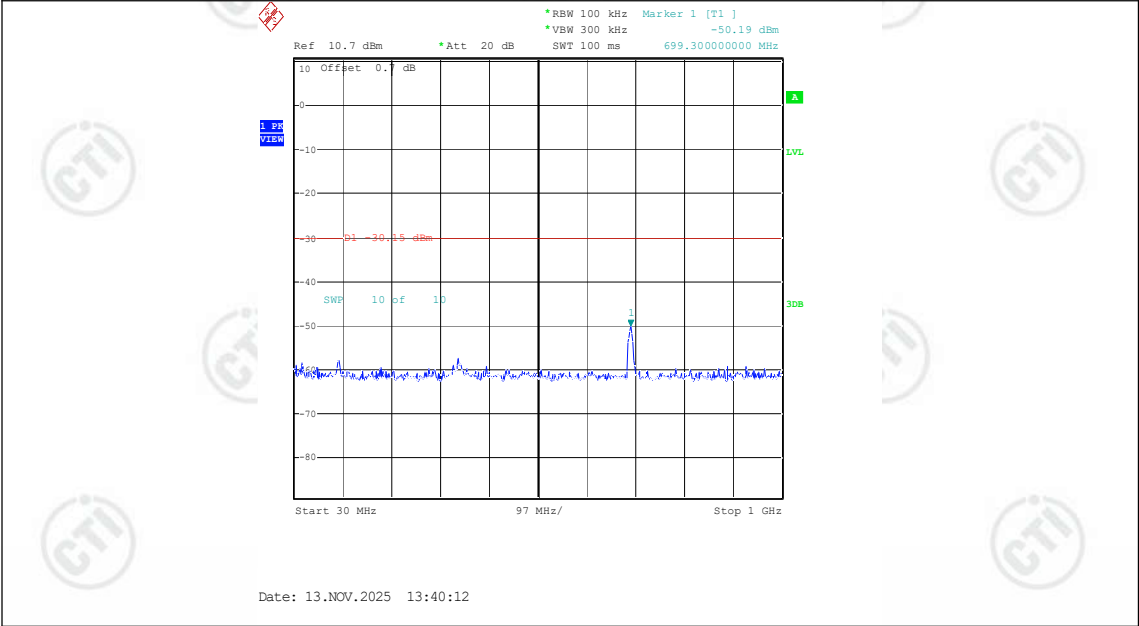
Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



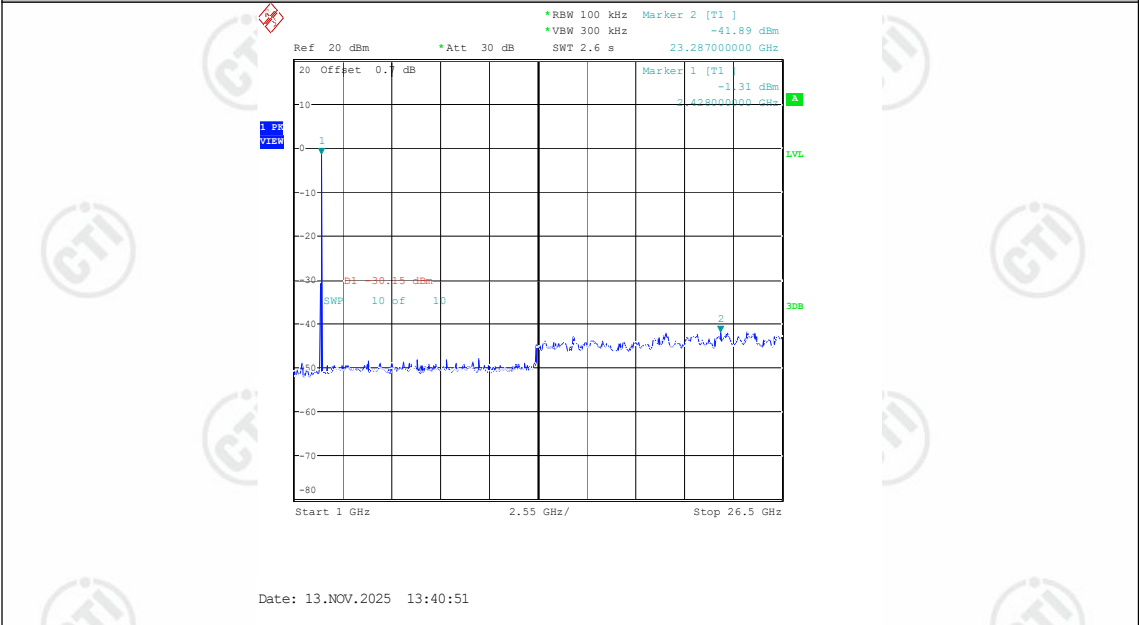
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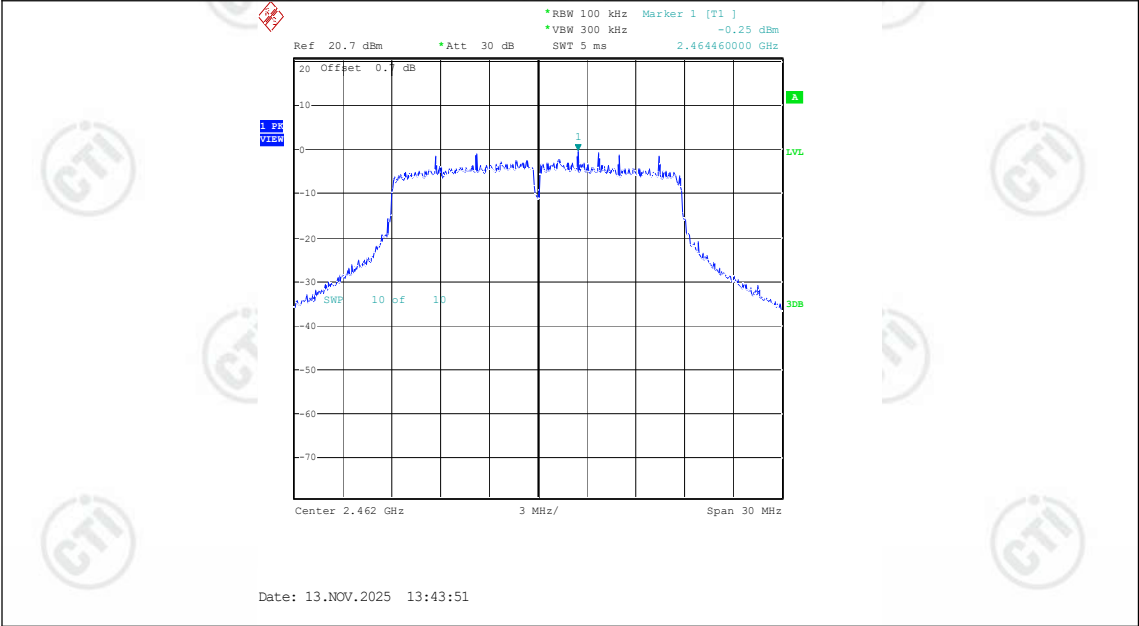
11N20SISO-Ant1-2437-0~Reference-PASS



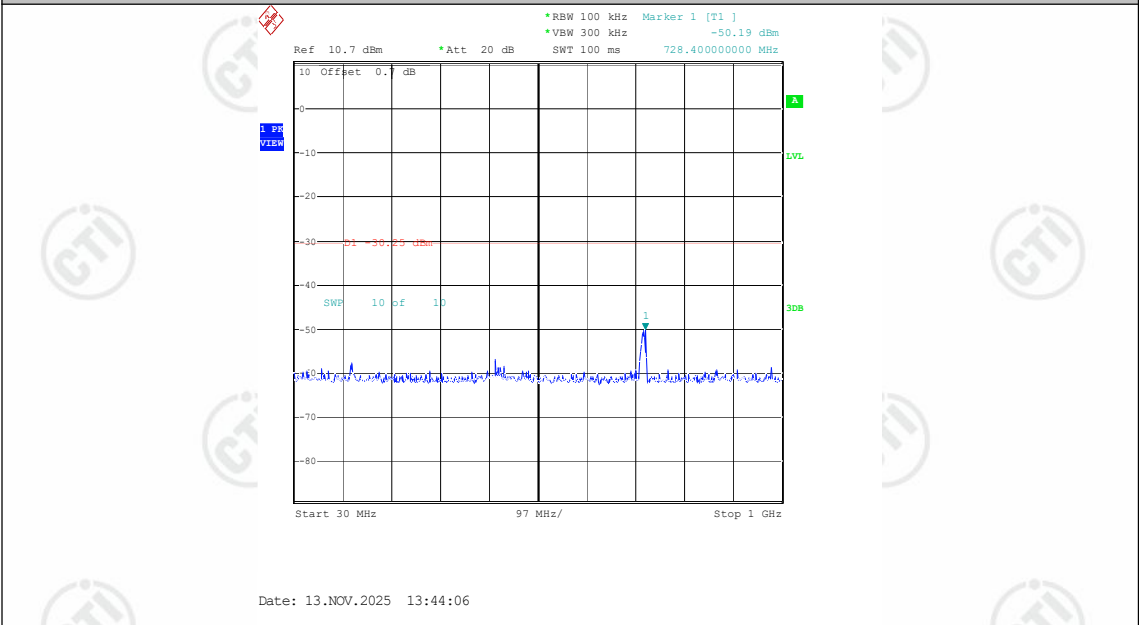
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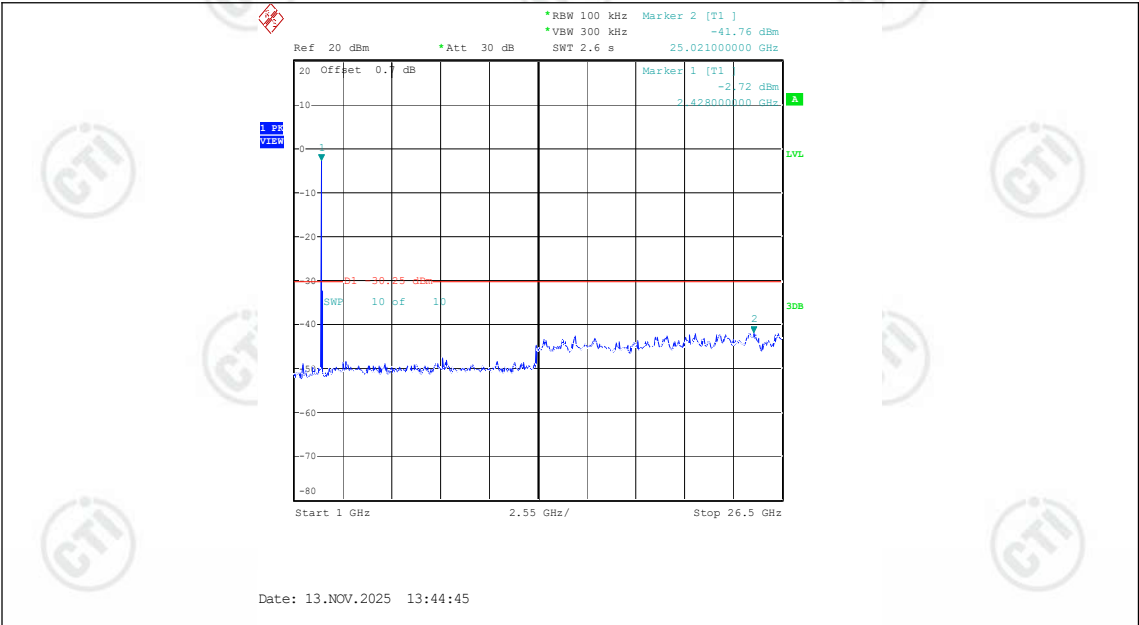
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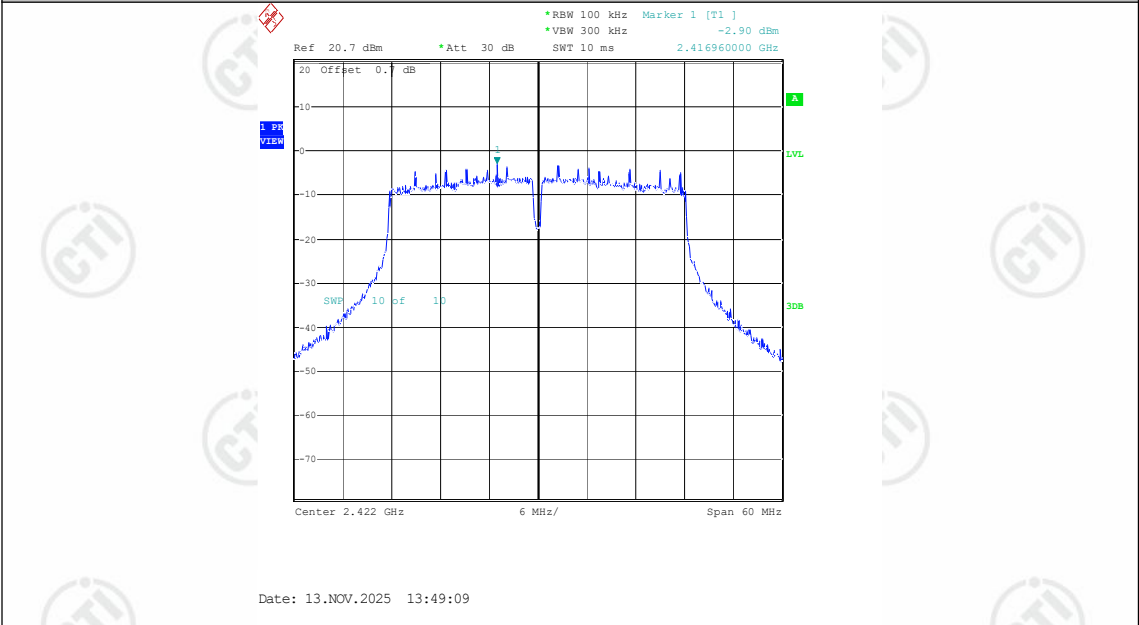
11N20SISO-Ant1-2462-0~Reference-PASS



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



11N20ISO-Ant1-2462-1000~26500-PASS



11N40ISO-Ant1-2422-0~Reference-PASS



Ref 20 dBm * Att 30 dB * RBW 100 kHz Marker 2 [T1] -41.76 dBm
SWT 2.6 s 25.021000000 GHz

20 Offset 0.7 dB Marker 1 [T1] -5.08 dBm
3.438000000 GHz

1 1

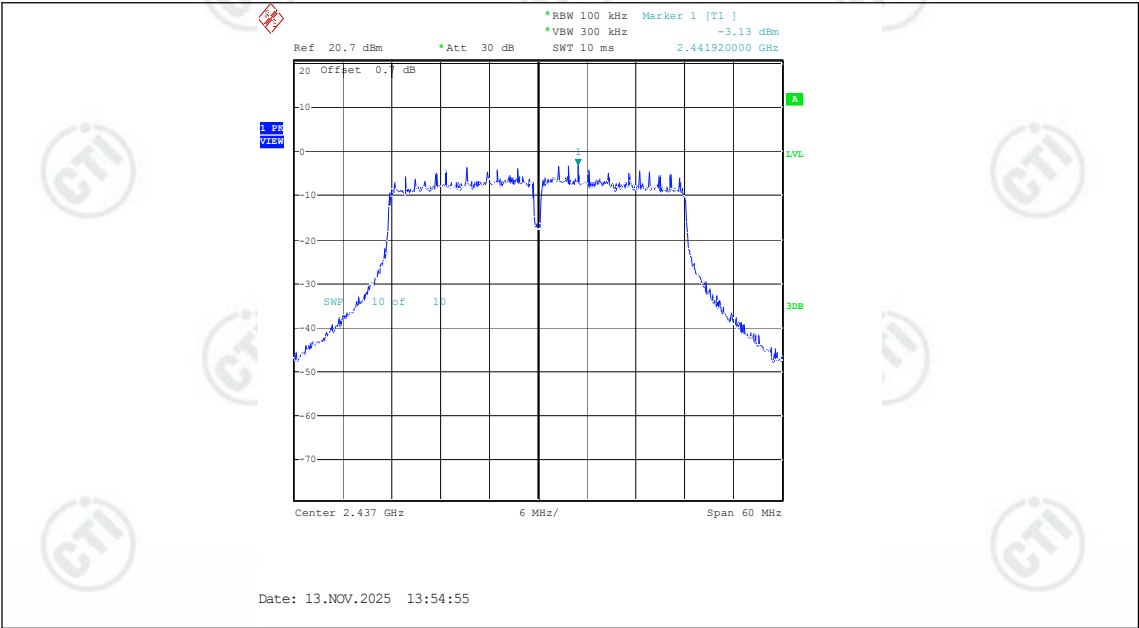
01 -32.9 dBm
SWF 10 5f 10

2

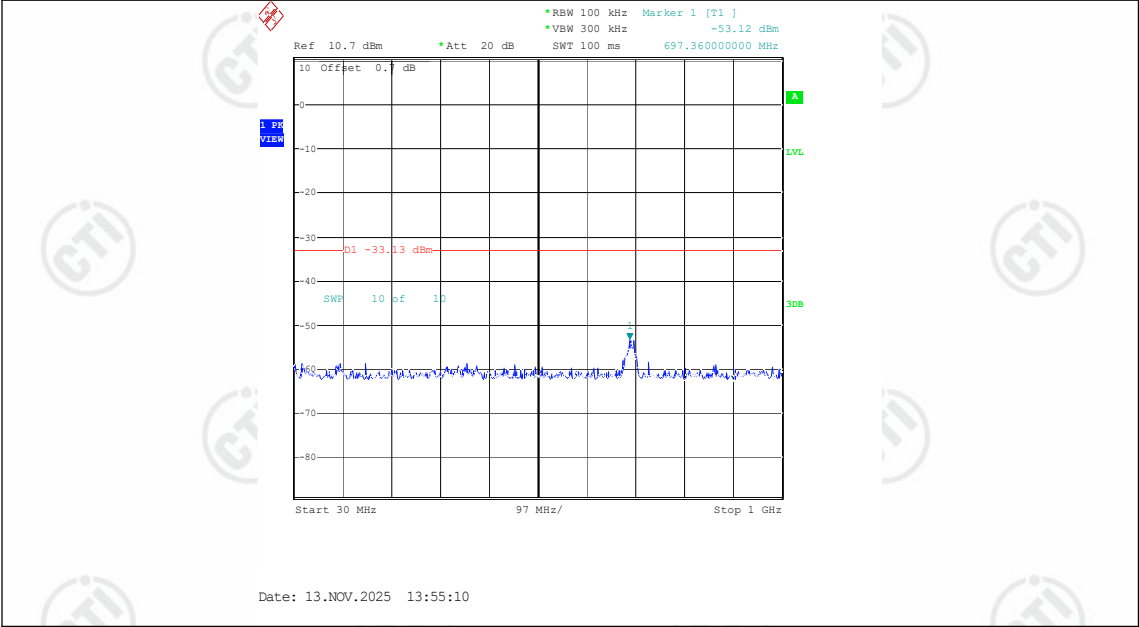
Start 1 GHz 2.55 GHz/ Stop 26.5 GHz

Date: 13.NOV.2025 13:50:03

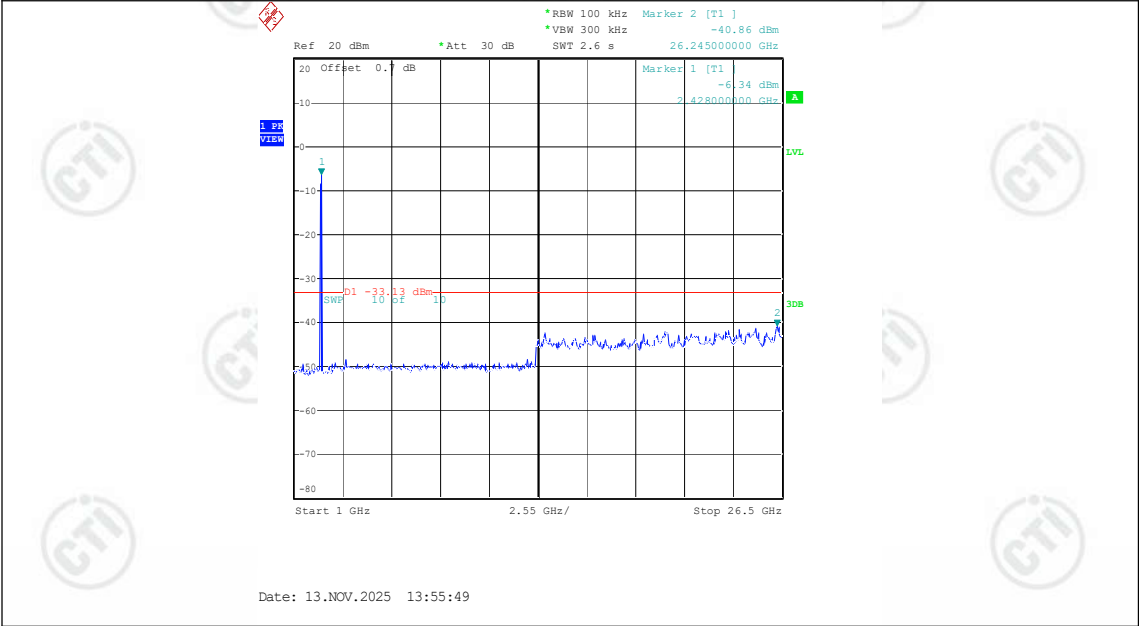
Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



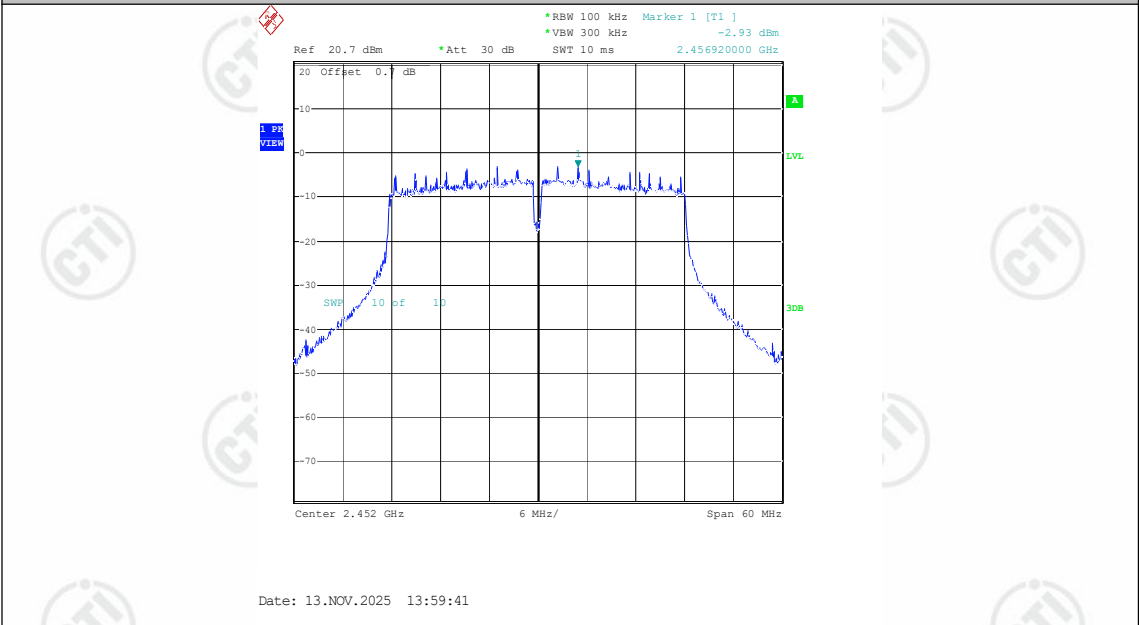
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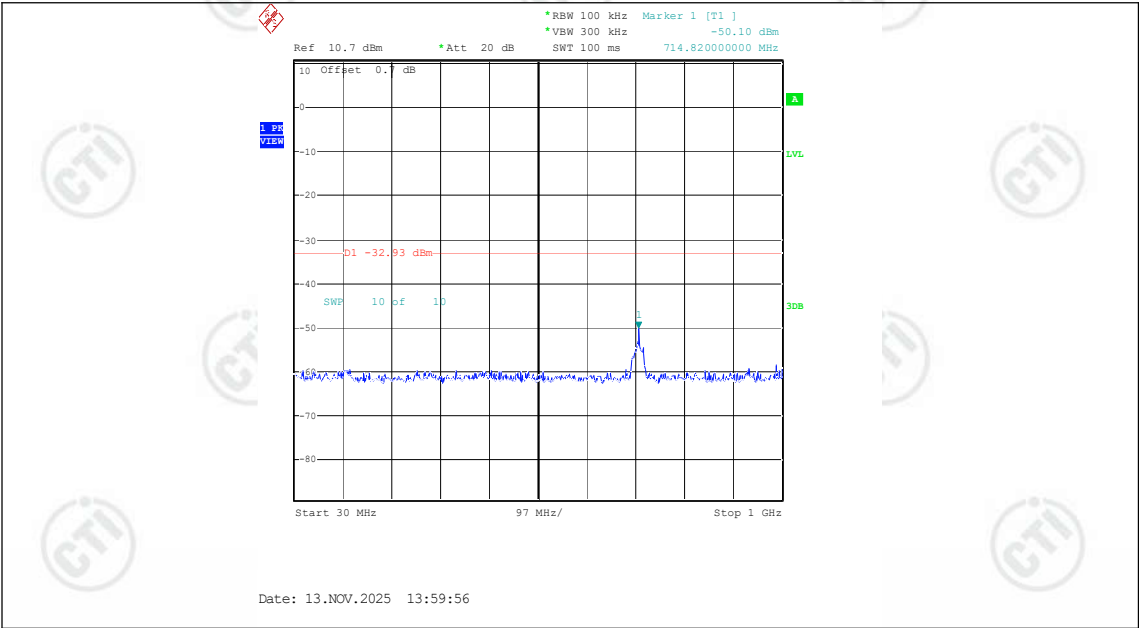
11N40SISO-Ant1-2437-30~1000-PASS



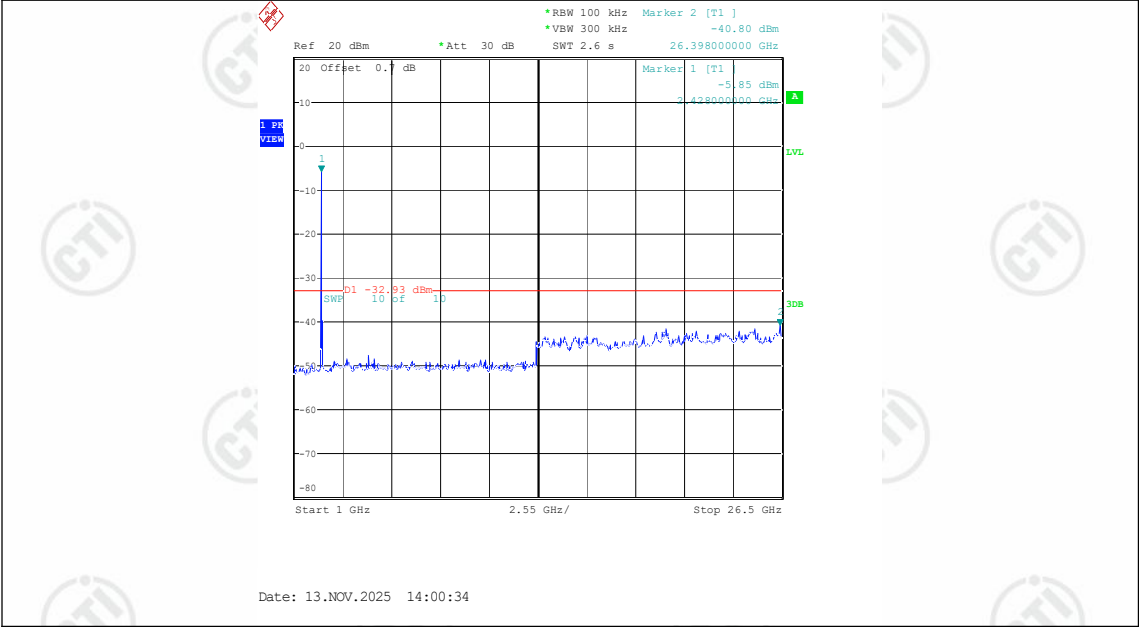
11N40SISO-Ant1-2437-1000~26500-PASS



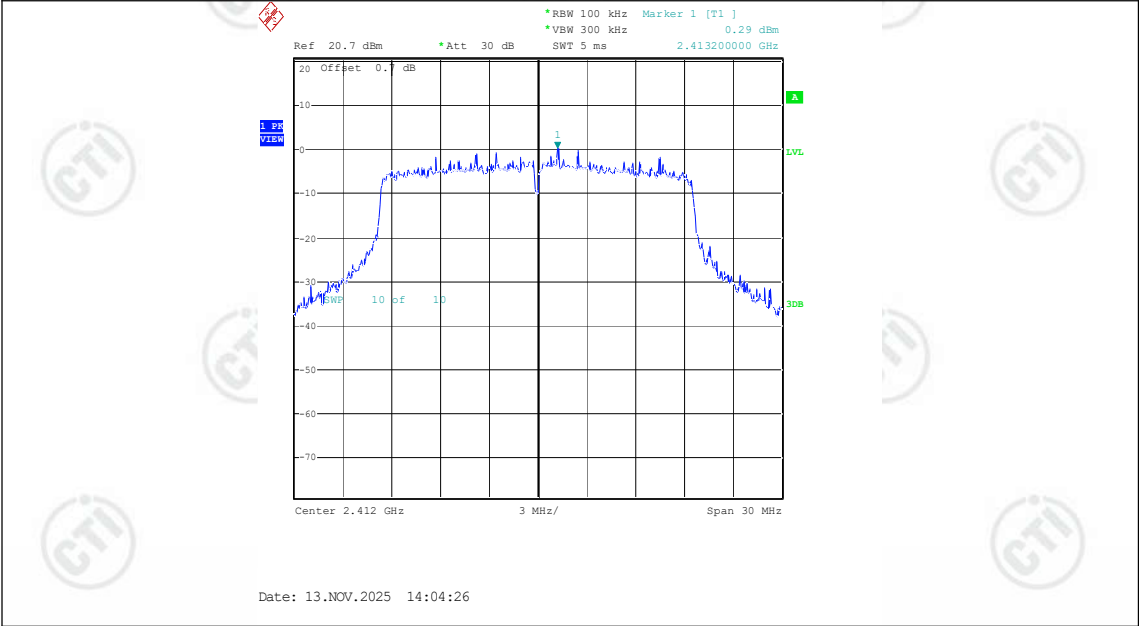
11N40SISO-Ant1-2452-0~Reference-PASS



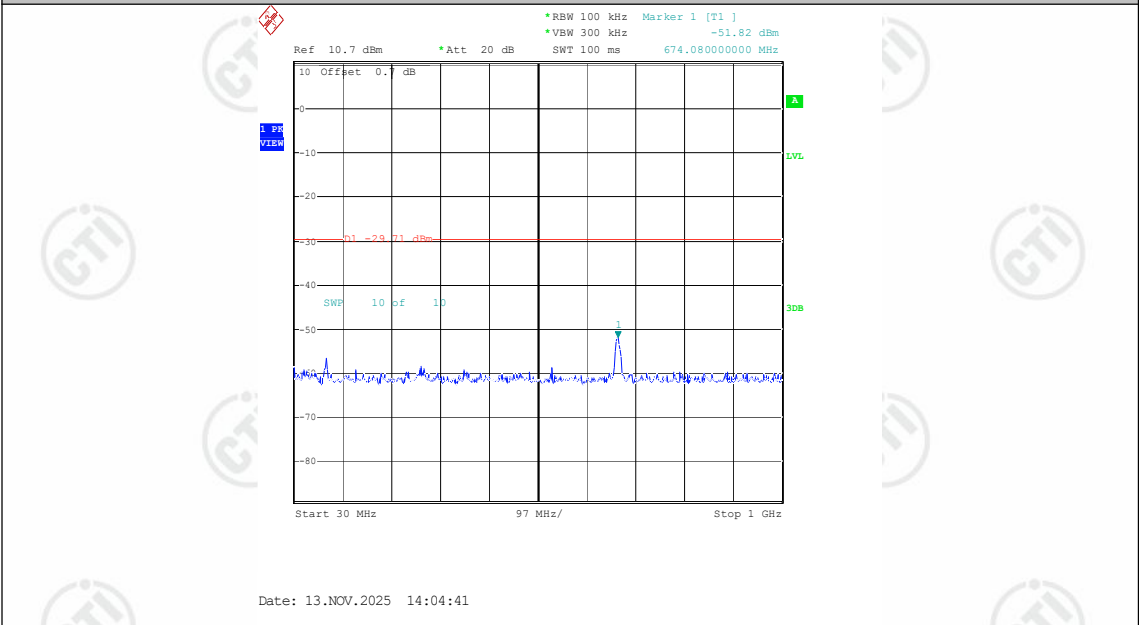
11N40SISO-Ant1-2452-30~1000-PASS



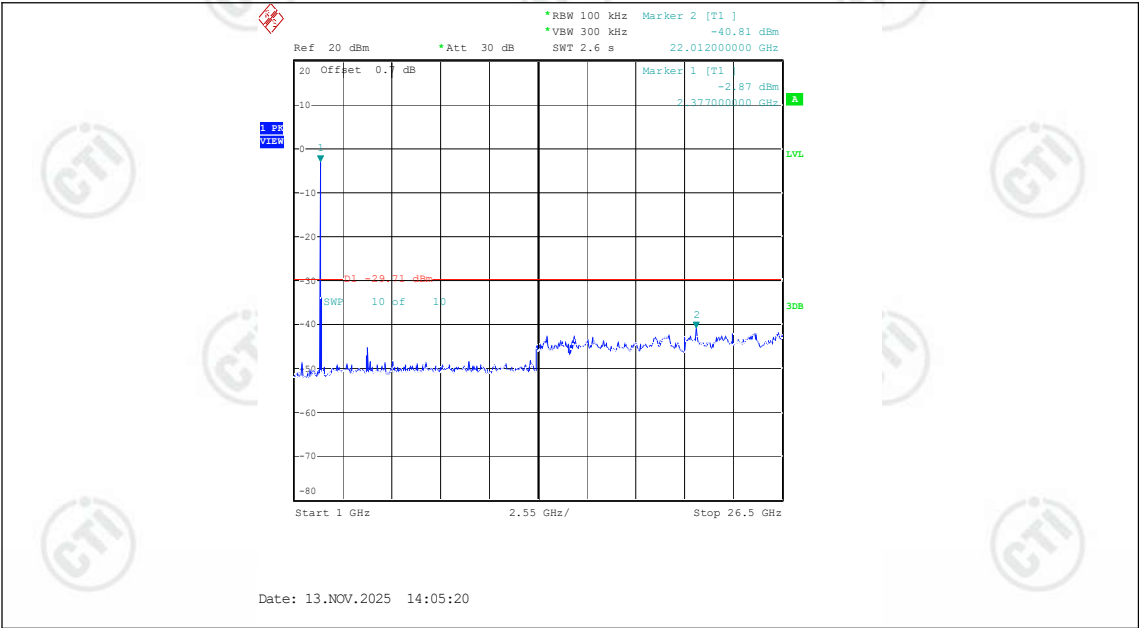
11N40SISO-Ant1-2452-1000~26500-PASS



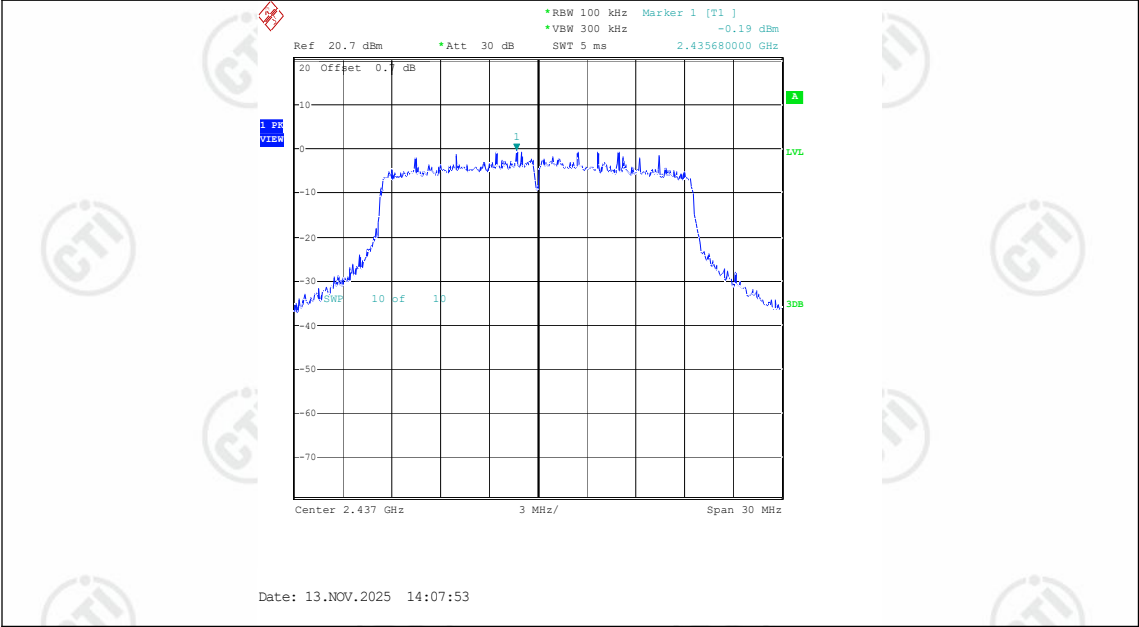
11AX20SISO-Ant1-2412-0~Reference-PASS



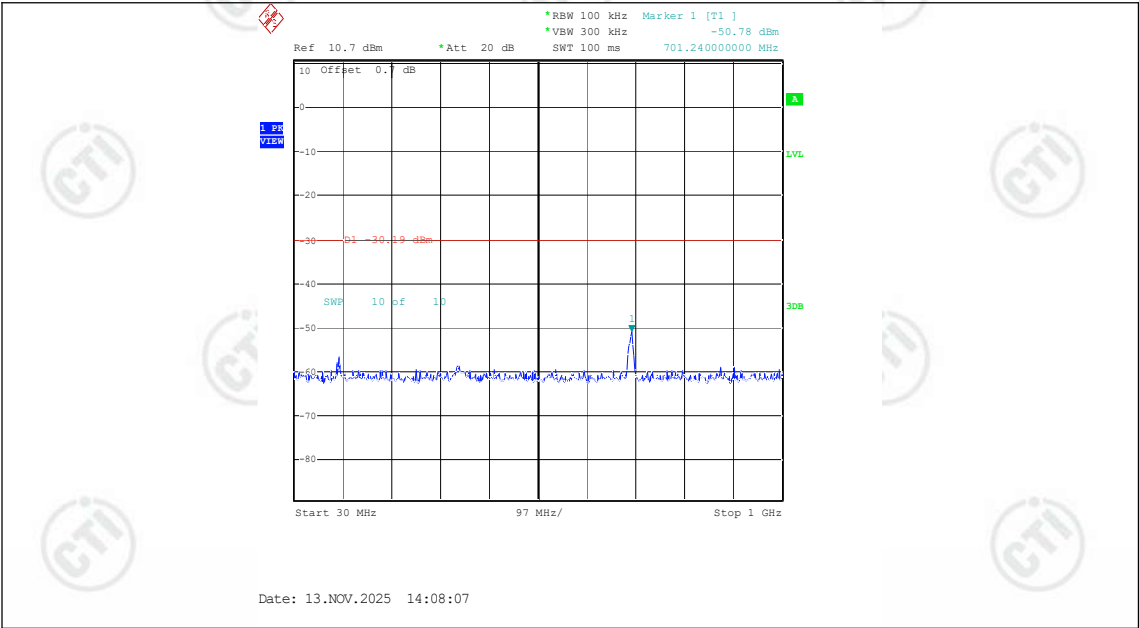
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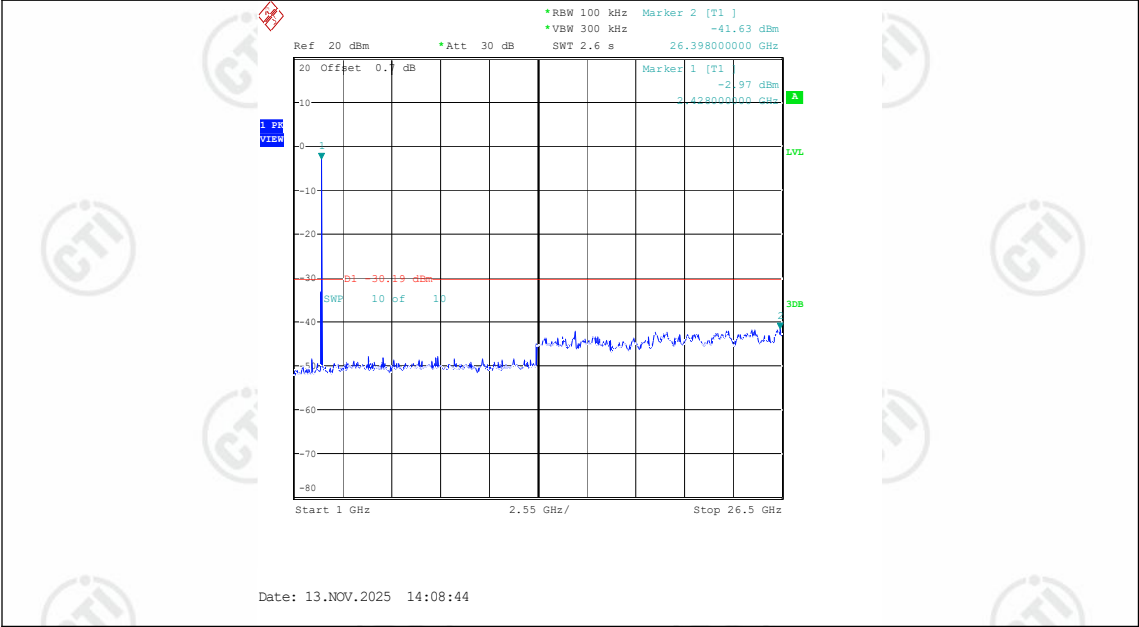
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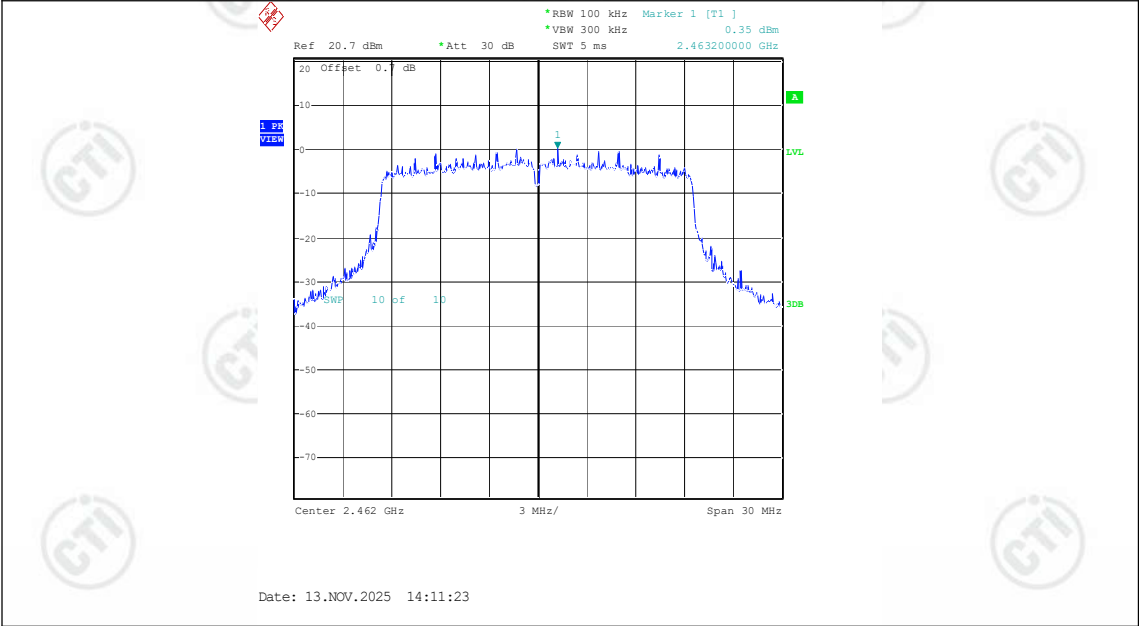
11AX20SISO-Ant1-2437-0~Reference-PASS



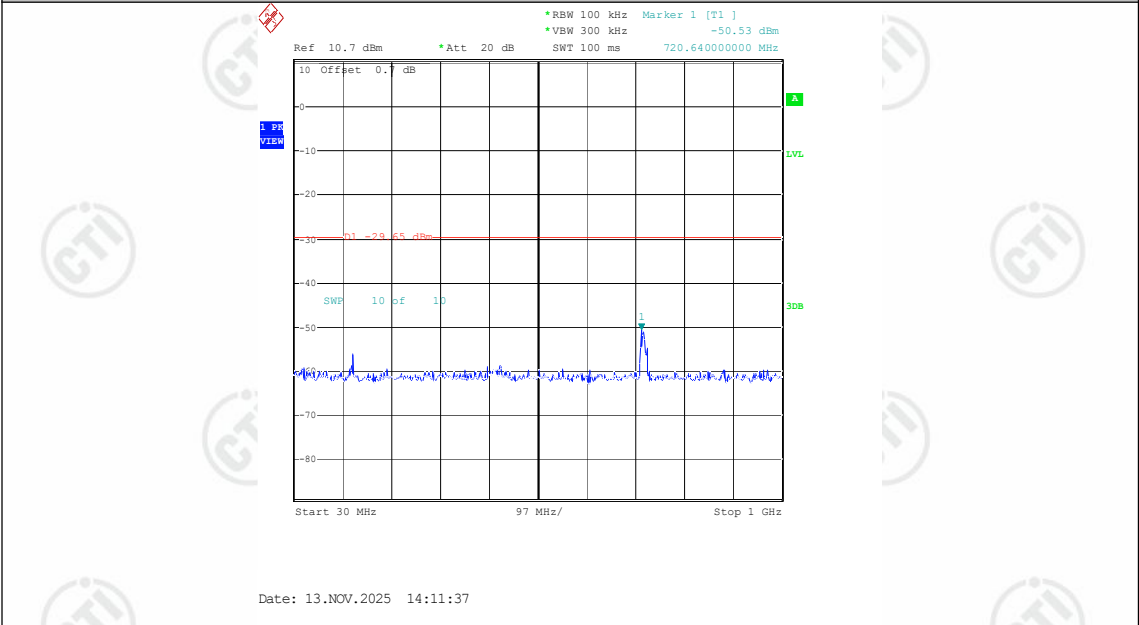
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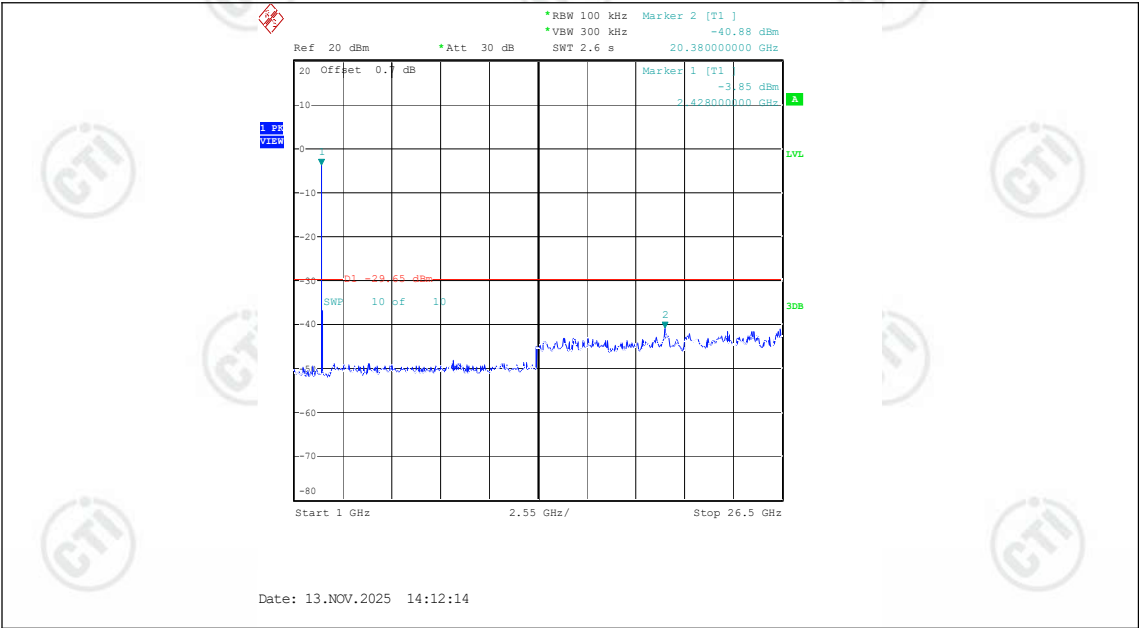
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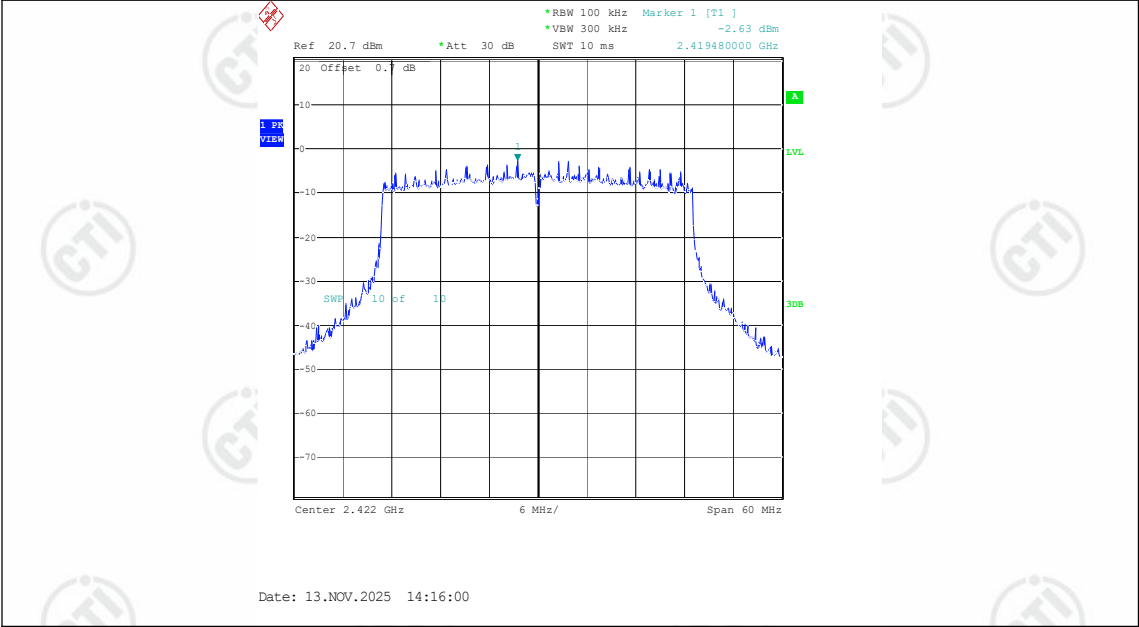
11AX20SISO-Ant1-2462-0~Reference-PASS



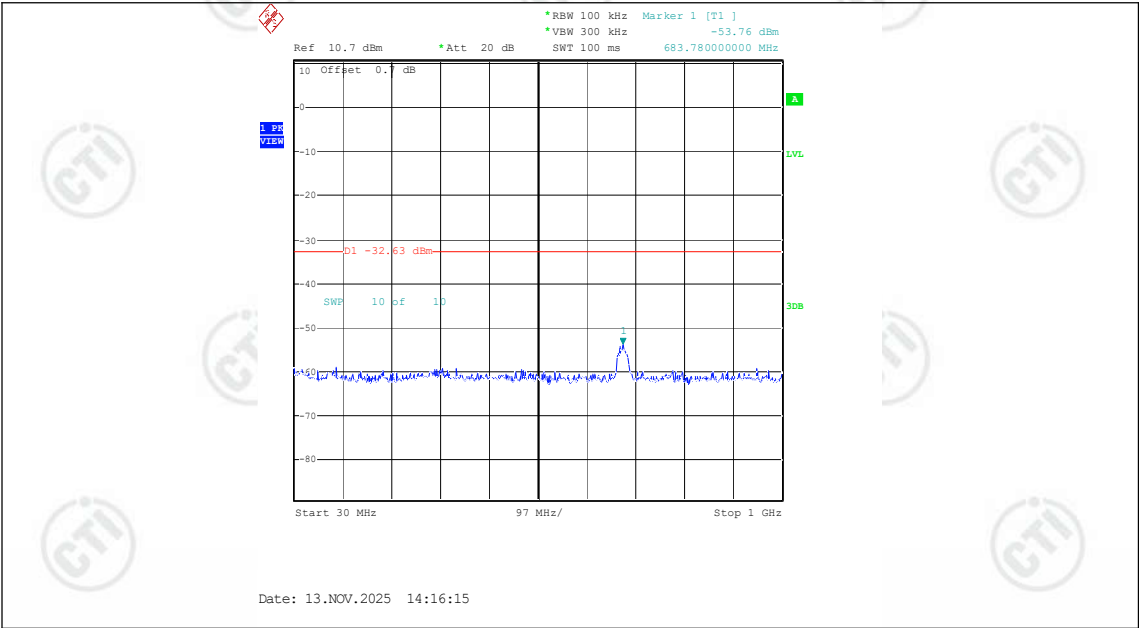
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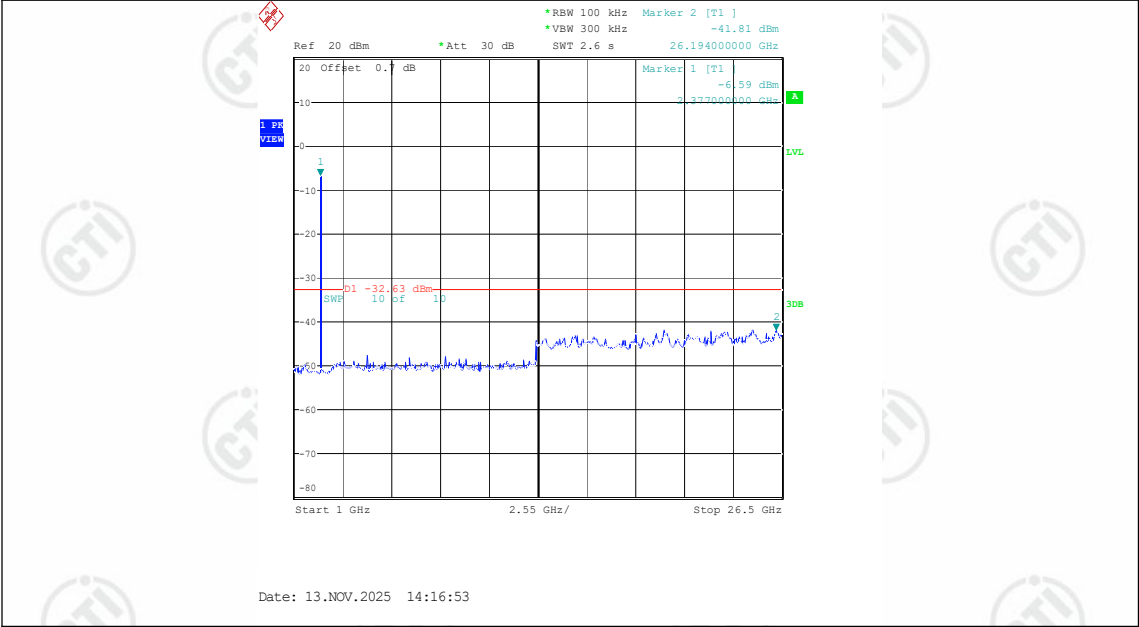
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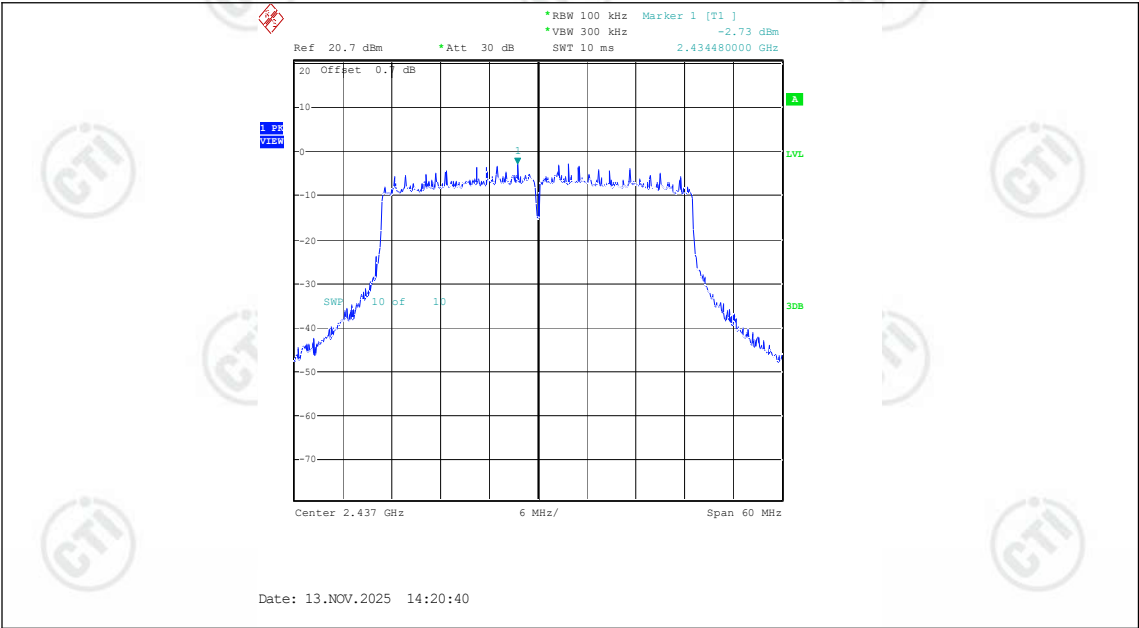
11AX40SISO-Ant1-2422-0~Reference-PASS



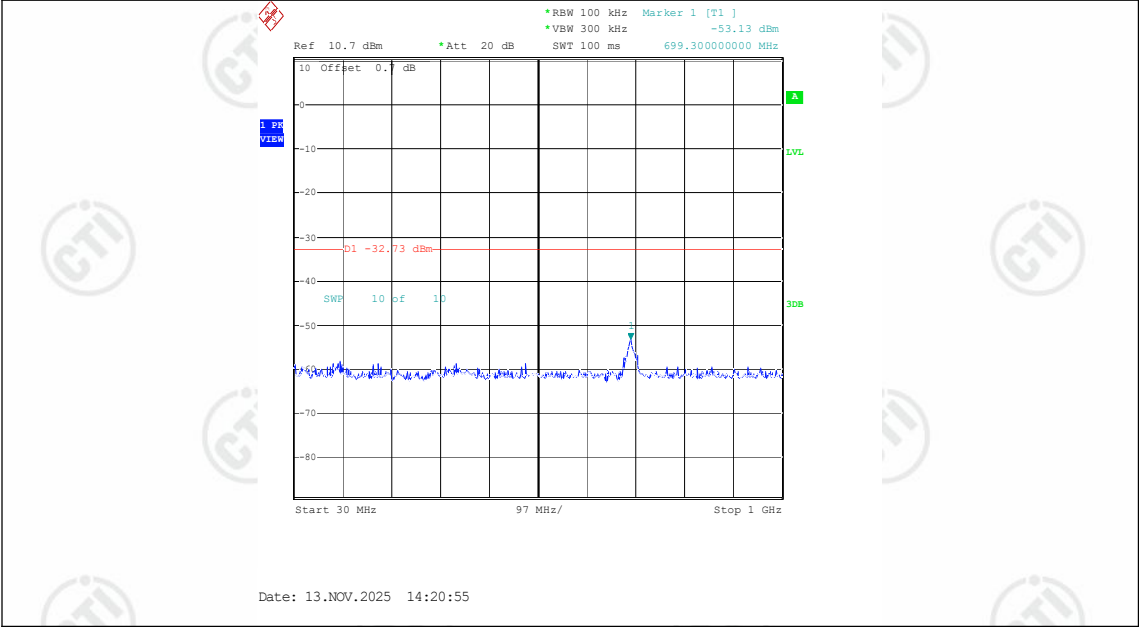
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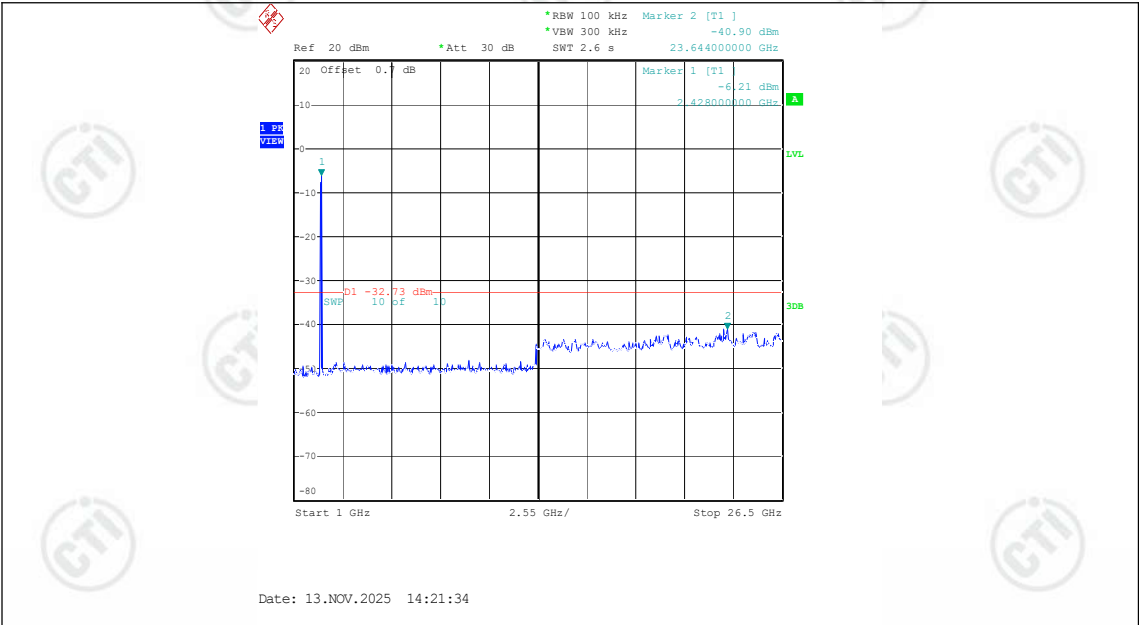
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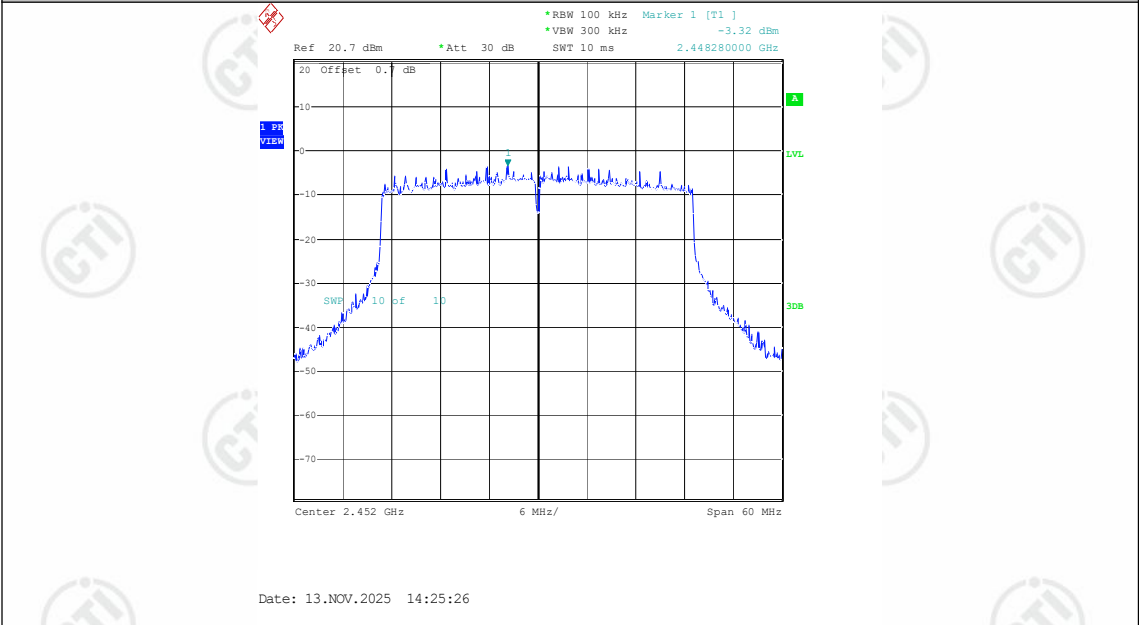
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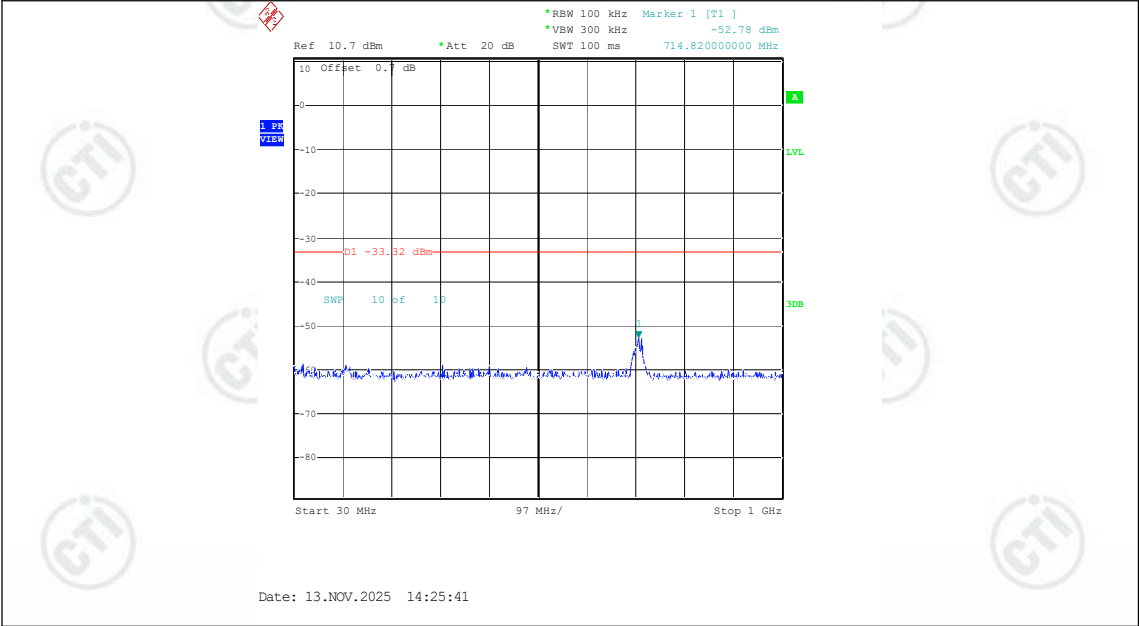
11AX40SISO-Ant1-2437-30~1000-PASS



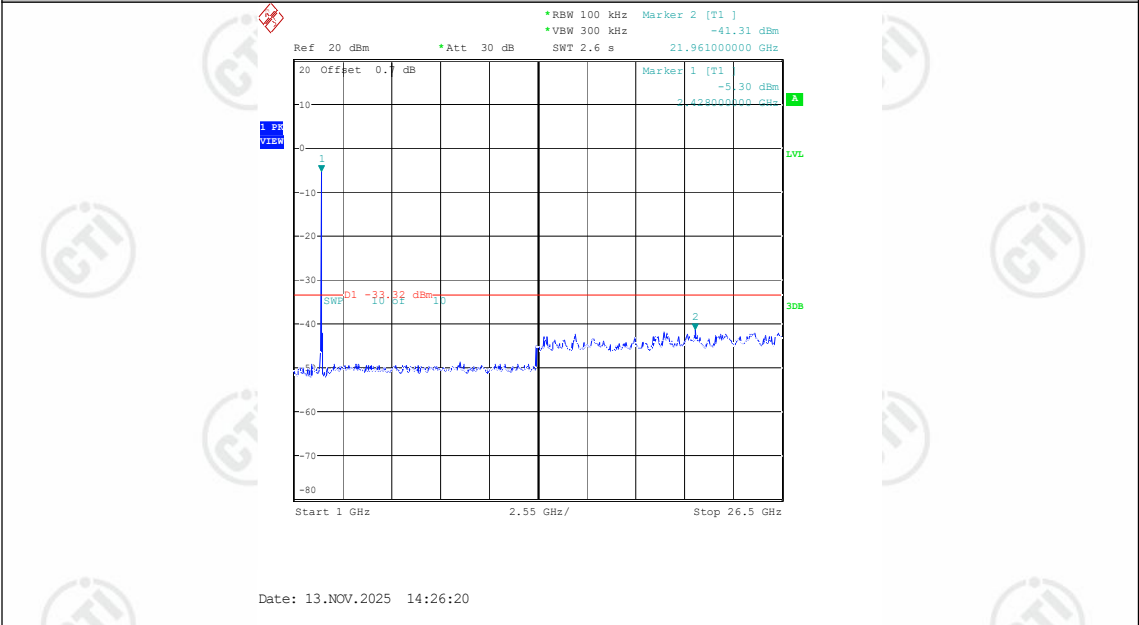
11AX40SISO-Ant1-2437-1000~26500-PASS



11AX40SISO-Ant1-2452-0~Reference-PASS



11AX40SISO-Ant1-2452-30~1000-PASS



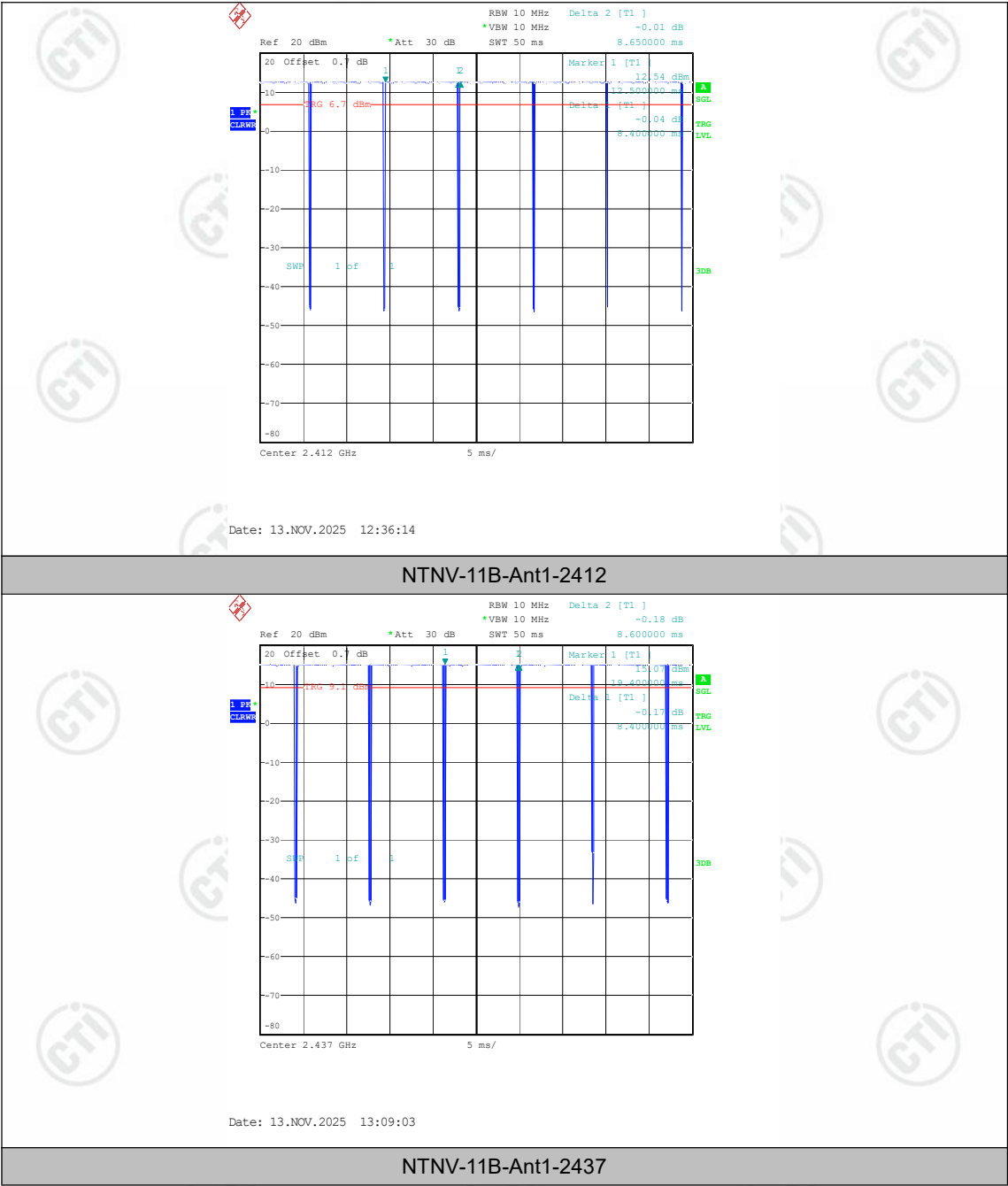
11AX40SISO-Ant1-2452-1000~26500-PASS

Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.40	8.65	97.11	0.13
11B	Ant1	2437	8.40	8.60	97.67	0.10
11B	Ant1	2462	8.40	8.55	98.25	0.08
11G	Ant1	2412	1.39	1.57	88.54	0.53
11G	Ant1	2437	1.39	1.62	85.80	0.67
11G	Ant1	2462	1.40	1.53	91.50	0.39
11N20SISO	Ant1	2412	5.08	5.32	95.49	0.20
11N20SISO	Ant1	2437	5.10	5.23	97.51	0.11
11N20SISO	Ant1	2462	5.08	5.25	96.76	0.14
11N40SISO	Ant1	2422	2.48	2.66	93.23	0.30
11N40SISO	Ant1	2437	2.47	2.68	92.16	0.35
11N40SISO	Ant1	2452	2.48	2.66	93.23	0.30
11AX20SISO	Ant1	2412	3.89	4.07	95.58	0.20
11AX20SISO	Ant1	2437	3.89	4.08	95.34	0.21
11AX20SISO	Ant1	2462	3.88	4.09	94.87	0.23
11AX40SISO	Ant1	2422	1.96	2.14	91.59	0.38
11AX40SISO	Ant1	2437	1.98	2.21	89.59	0.48
11AX40SISO	Ant1	2452	1.98	2.22	89.19	0.50

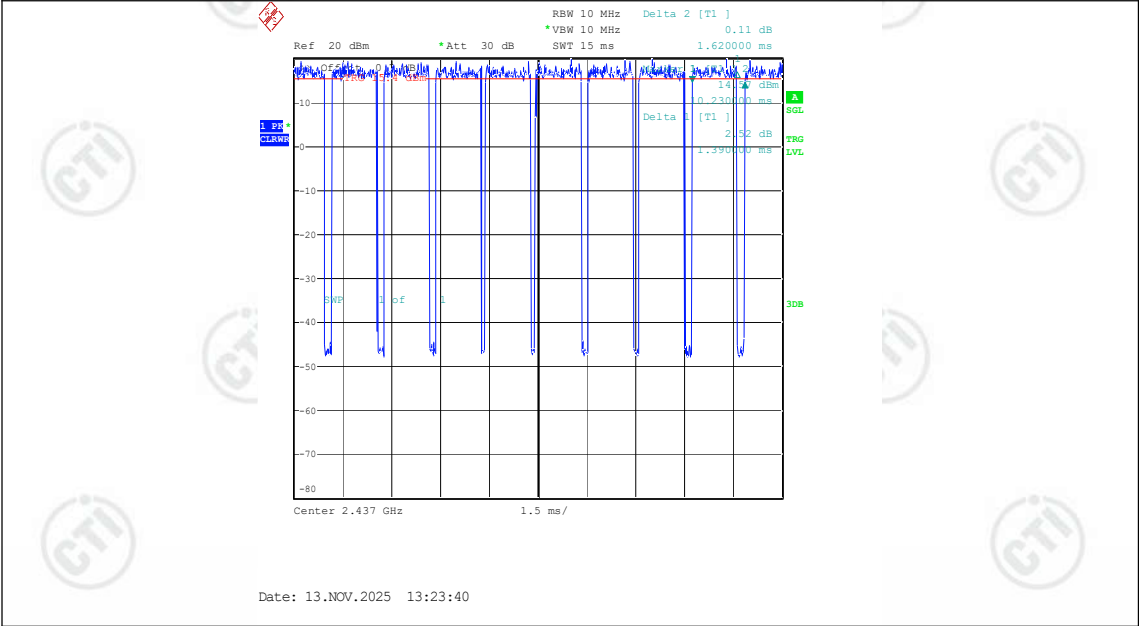
Test Graphs



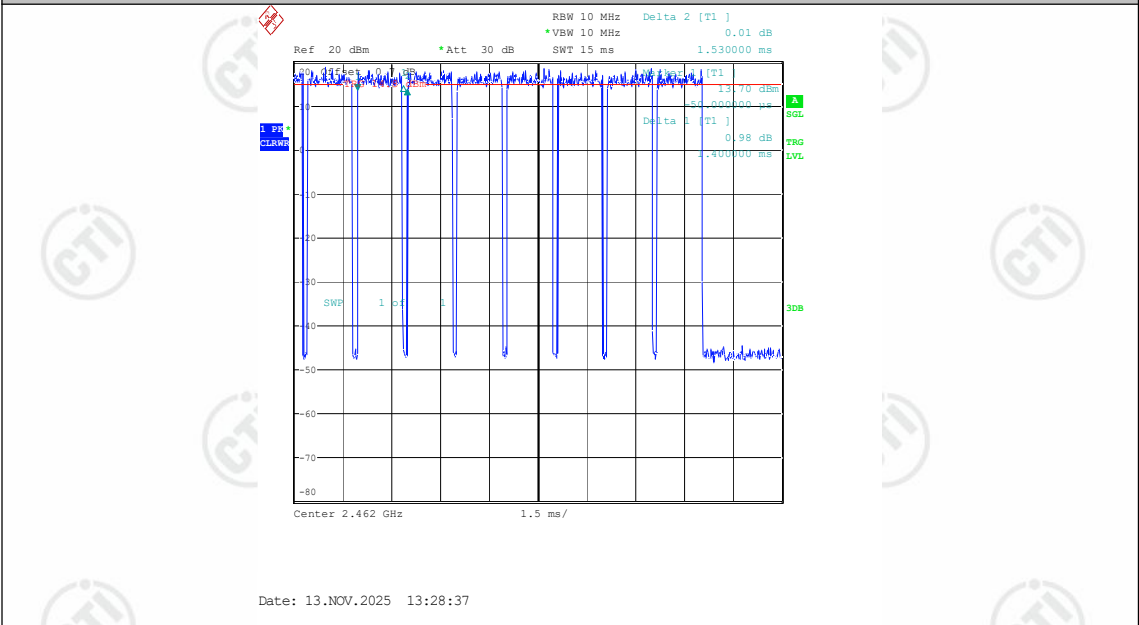


Date: 13.NOV.2025 13:19:40

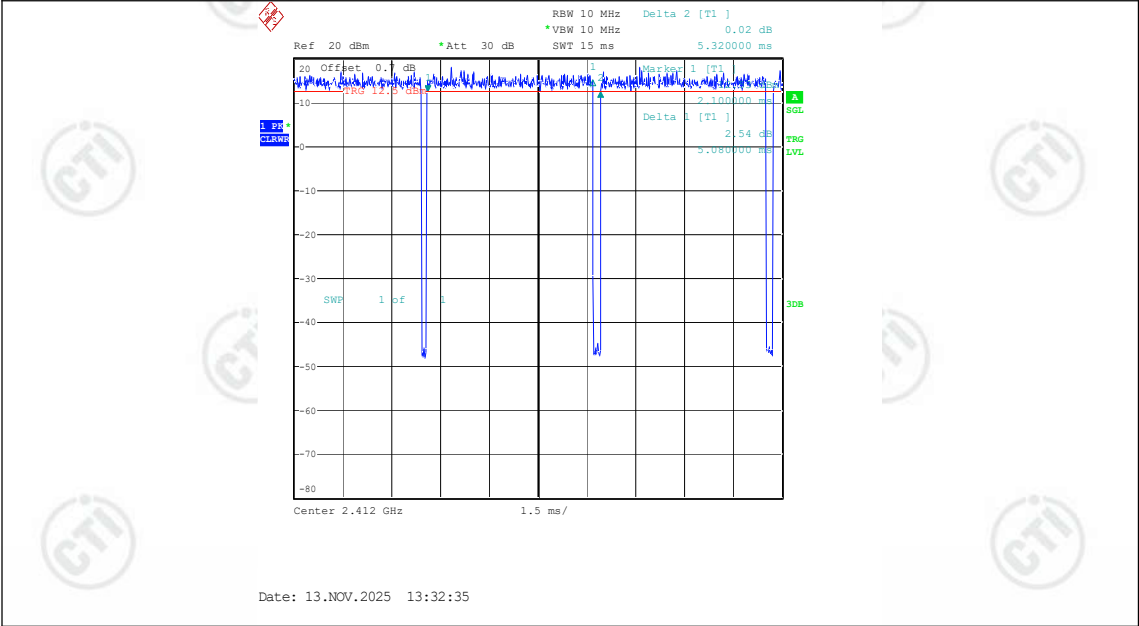
Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com



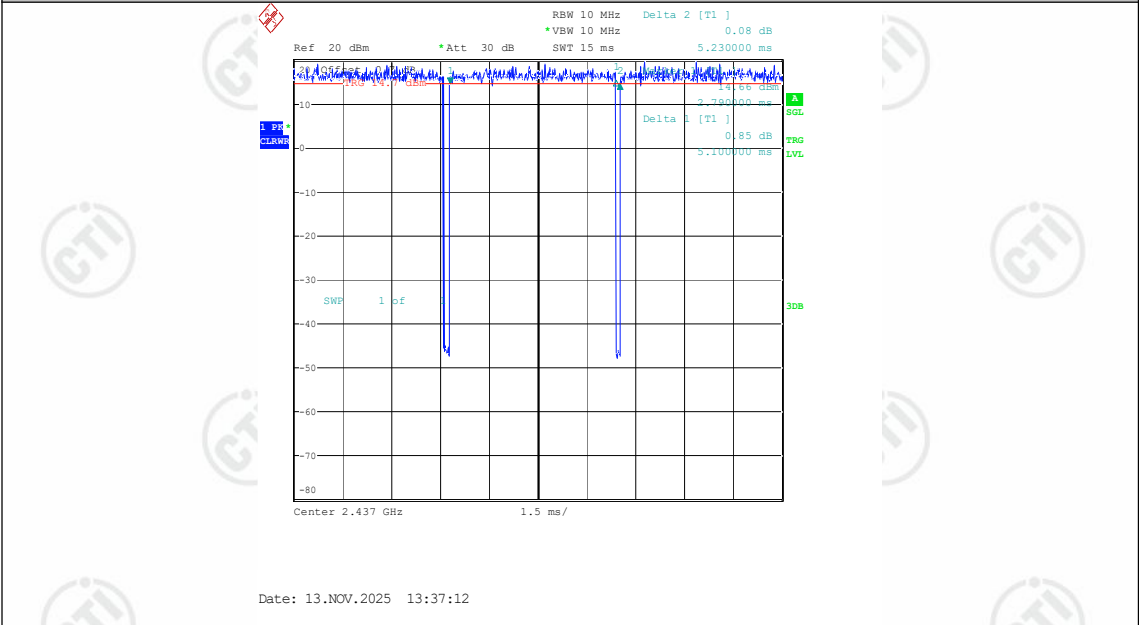
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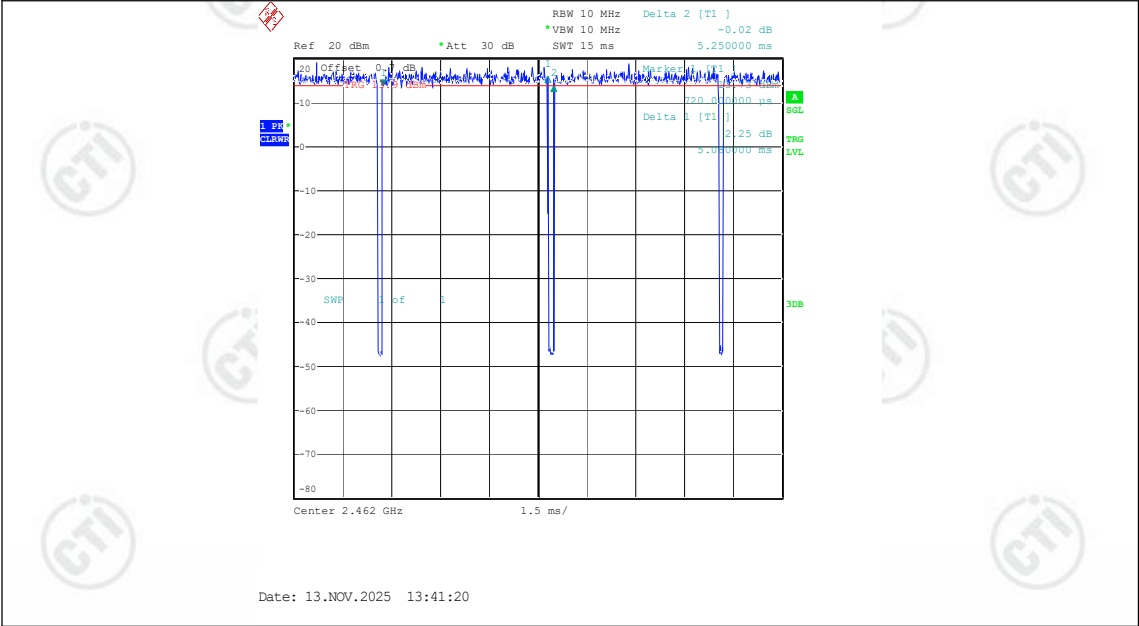
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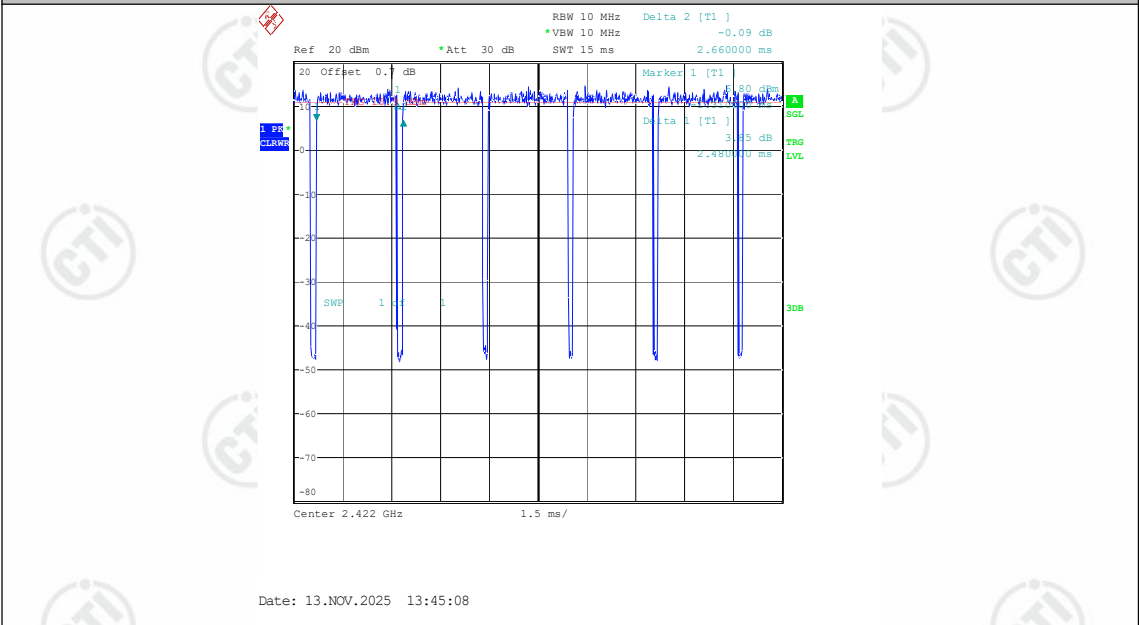
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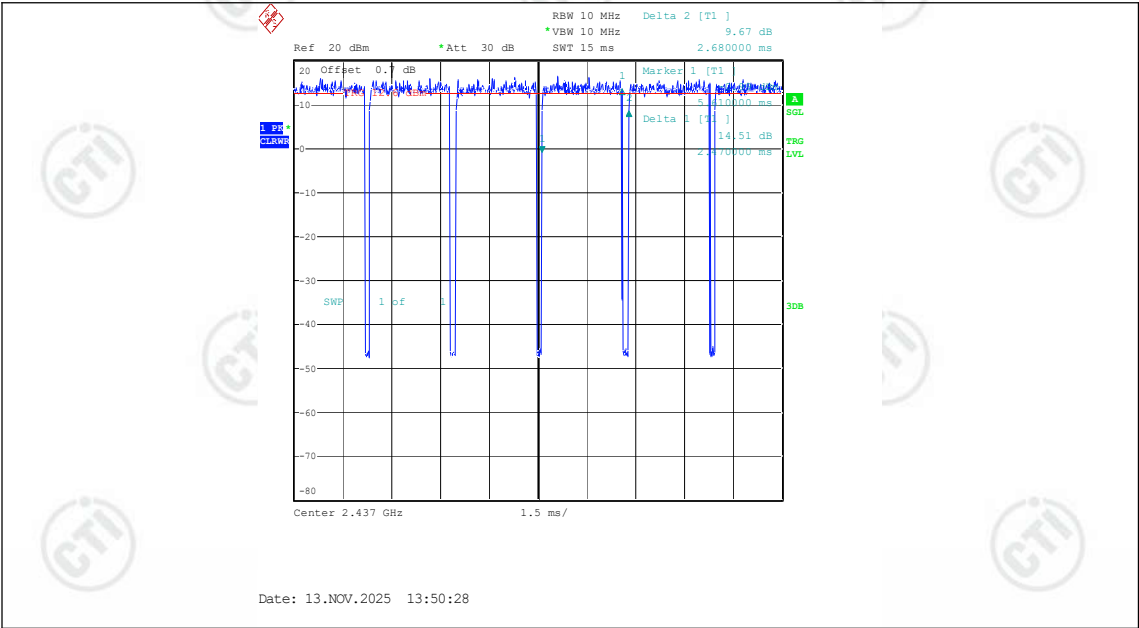
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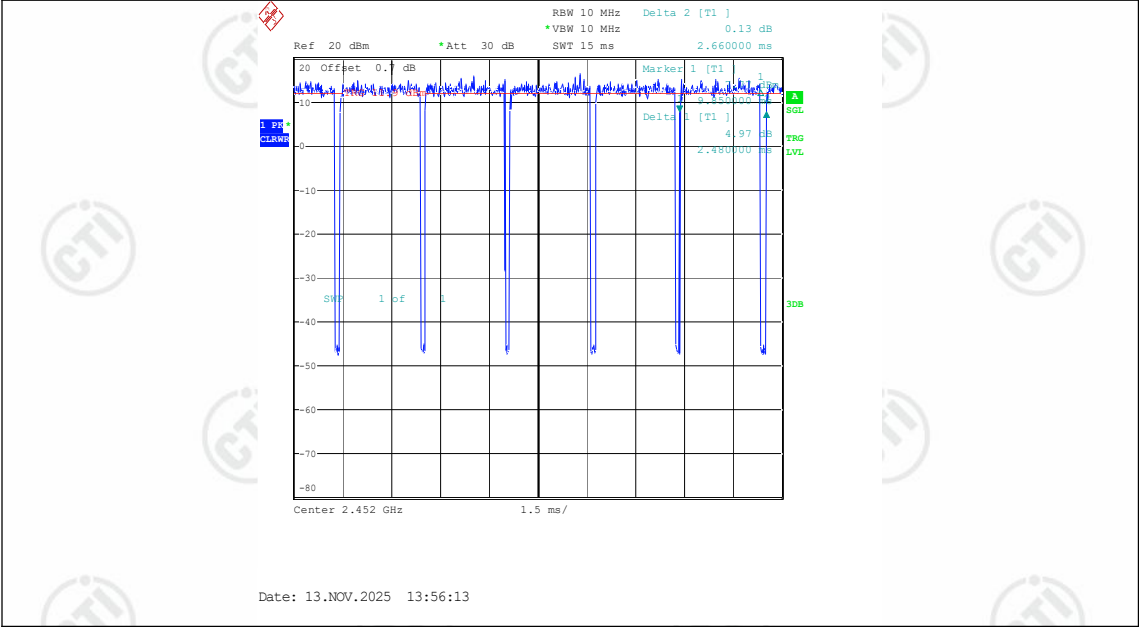
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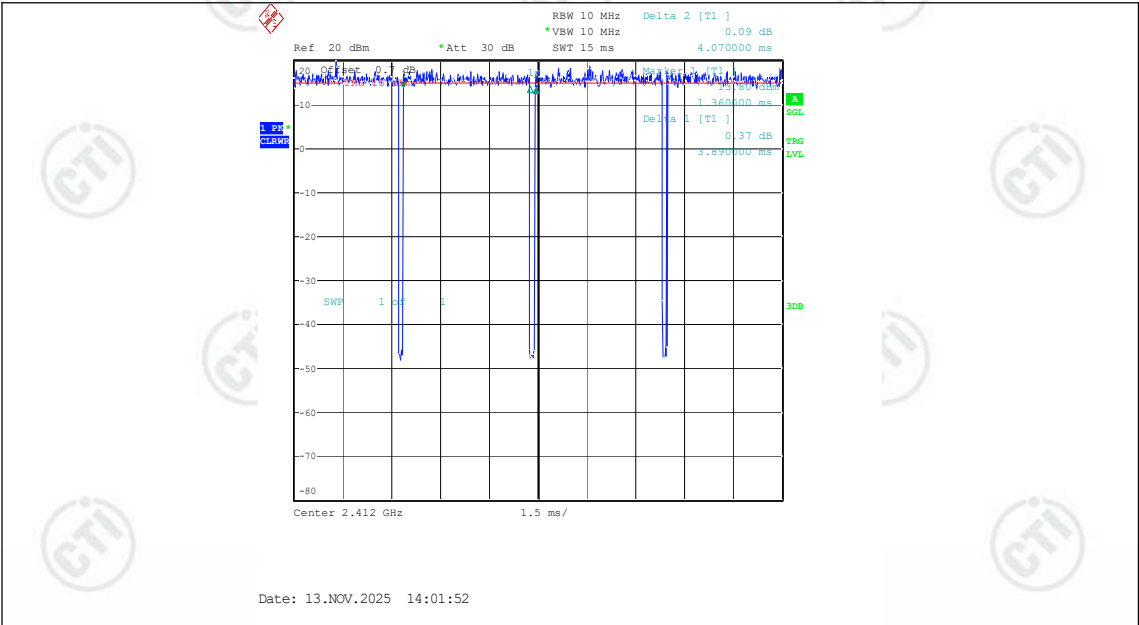
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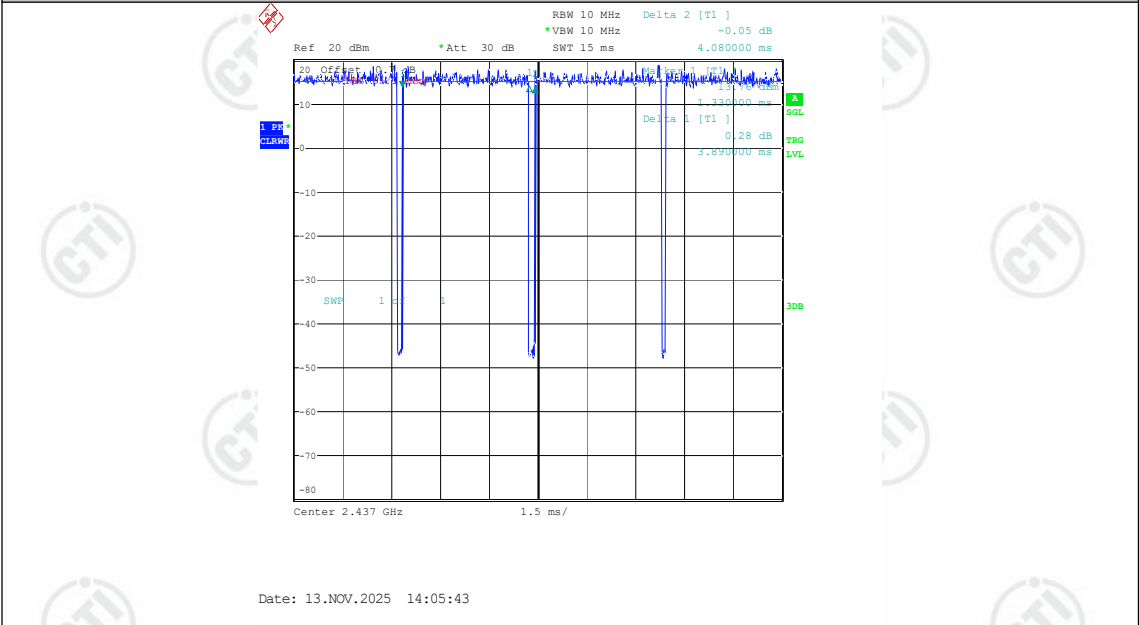
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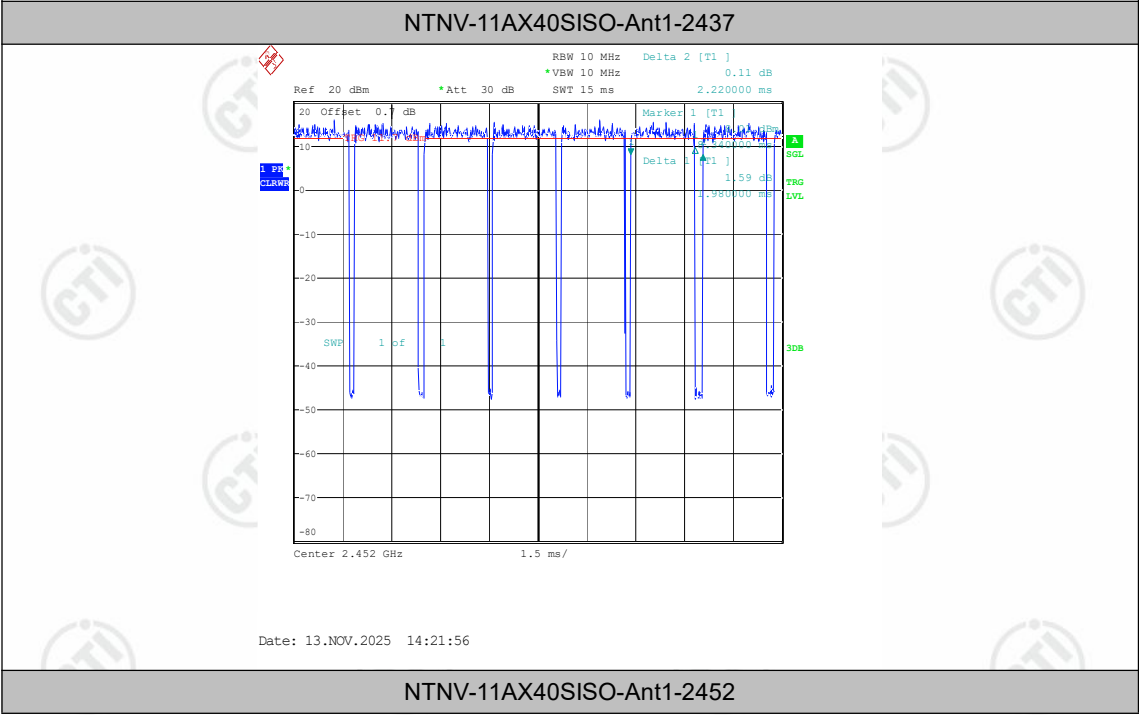
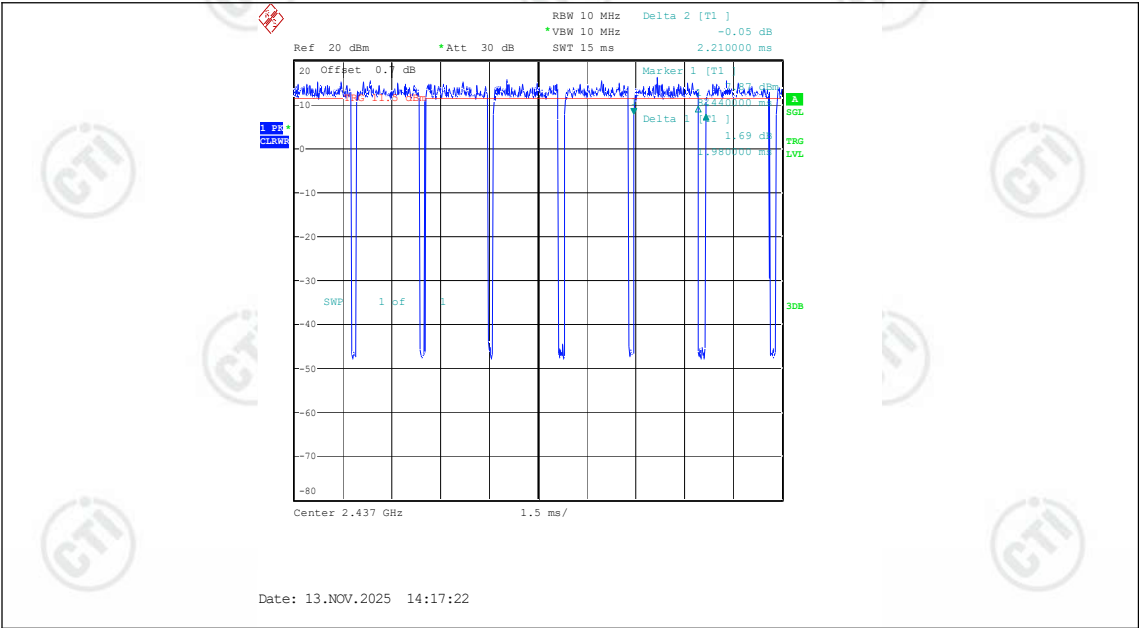


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Appendix I: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
TestMode	Antenna	ChName	Channel	Detector	Freq	Result	Limit	E	Limit1	Verdict

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.

*** End of Report ***