

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

General Description of EUT	
EUT Name:	Portable Gaming Computer(Tablet computer)
Model:	AYANEO Pocket AIR Mini
Sample ID:	HC-C-202508-0137-01-03-2#
Test Standard:	FCC Part 15.247
Environmental Conditions	
Ambient Temperature:	25℃
Ambient Humidity:	45%RH
Test Power Supply:	DC 3.8V
Test Engineer:	Gold. zhang
Note: For a more detailed features description, please refer to the report TBR-C-202508-0137-152	

Contents

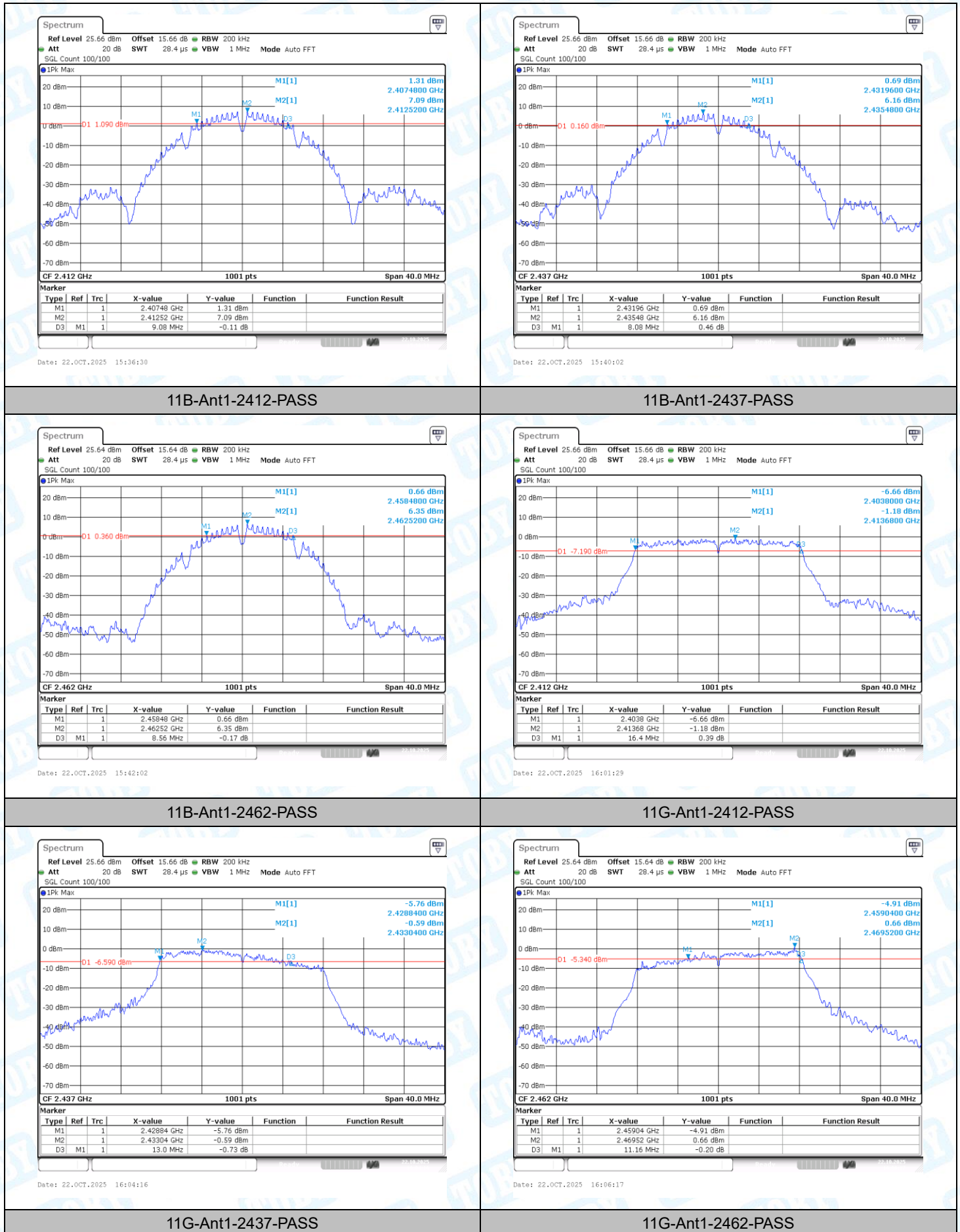
1: DTS Bandwidth.....	3
1.1 Test Result	3
1.2 Test Graphs	4
2: Occupied Channel Bandwidth.....	6
2.1 Test Result	6
2.2 Test Graphs	7
3: Maximum conducted output power	9
3.1 Test Result Average.....	9
4: Maximum power spectral density	10
4.1 Test Result	10
4.2 Test Graphs	11
5: Band edge measurements	13
5.1 Test Result	13
5.2 Test Graphs	14
6: Conducted Spurious Emission.....	16
6.1 Test Result	16
6.2 Test Graphs	17
7: Duty Cycle	23
7.1 Test Result	23
7.2 Test Graphs	24
8: Emissions in Restricted Bands.....	26
8.1 Test Result	26
8.2 Test Graphs	28

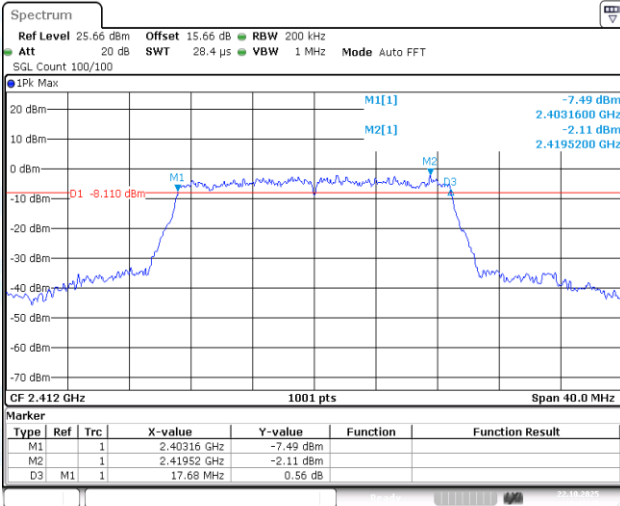
1: DTS Bandwidth

1.1 Test Result

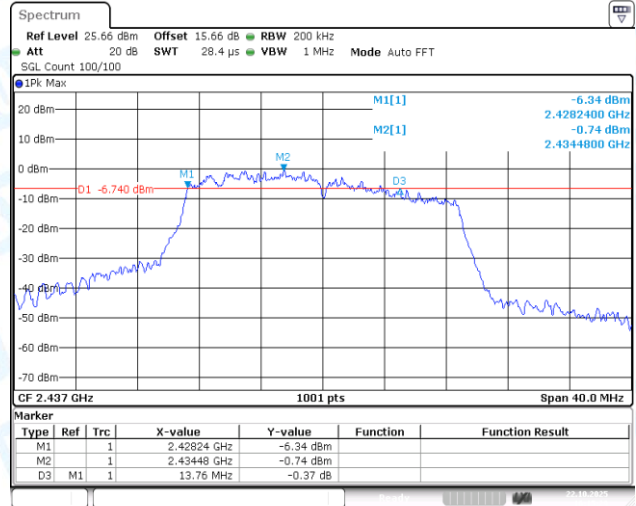
Test Mode	Ant.	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.08	2407.48	2416.56	0.5	PASS
11B	Ant1	2437	8.08	2431.96	2440.04	0.5	PASS
11B	Ant1	2462	8.56	2458.48	2467.04	0.5	PASS
11G	Ant1	2412	16.40	2403.80	2420.20	0.5	PASS
11G	Ant1	2437	13.00	2428.84	2441.84	0.5	PASS
11G	Ant1	2462	11.16	2459.04	2470.20	0.5	PASS
11N20SISO	Ant1	2412	17.68	2403.16	2420.84	0.5	PASS
11N20SISO	Ant1	2437	13.76	2428.24	2442.00	0.5	PASS
11N20SISO	Ant1	2462	13.60	2457.20	2470.80	0.5	PASS
11N40SISO	Ant1	2422	16.88	2419.52	2436.40	0.5	PASS
11N40SISO	Ant1	2437	19.84	2422.68	2442.52	0.5	PASS
11N40SISO	Ant1	2452	36.48	2433.68	2470.16	0.5	PASS

1.2 Test Graphs





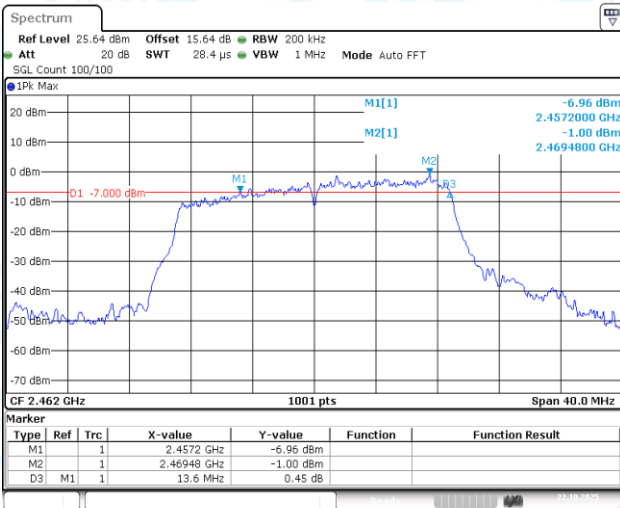
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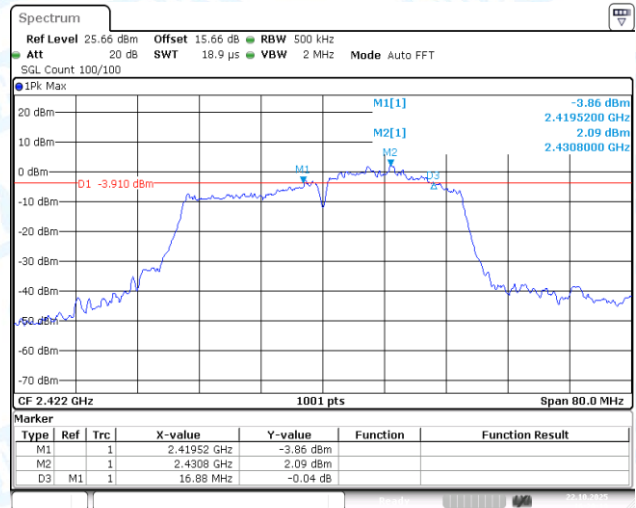
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11N20SISO-Ant1-2412-PASS

11N20SISO-Ant1-2437-PASS



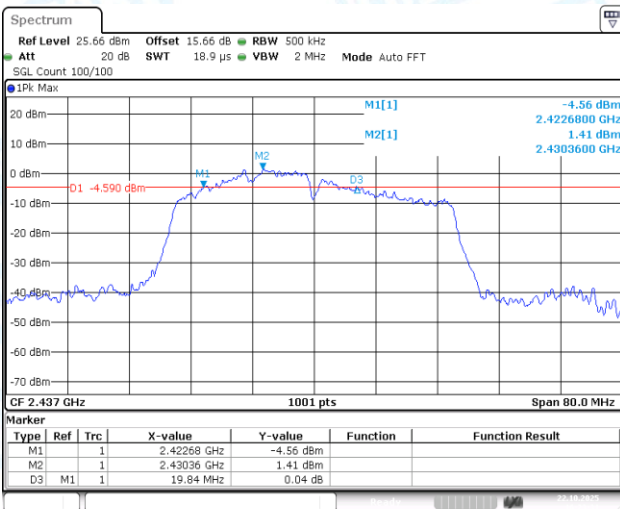
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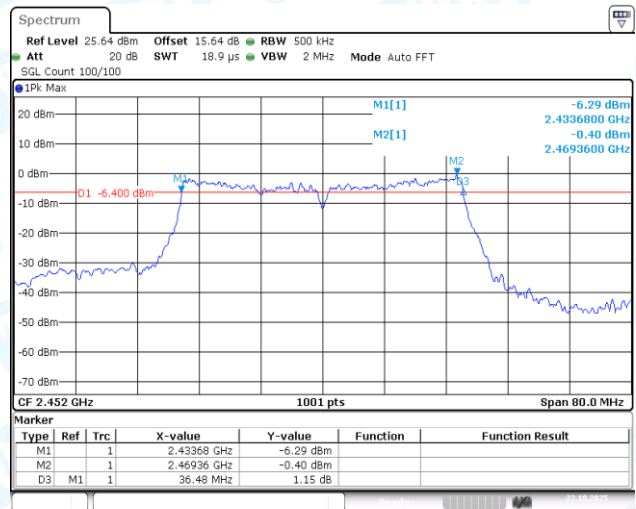
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11N20SISO-Ant1-2462-PASS

11N40SISO-Ant1-2422-PASS



Date: 22.OCT.2025 16:23:31



Date: 22.OCT.2025 16:26:27

11N40SISO-Ant1-2437-PASS

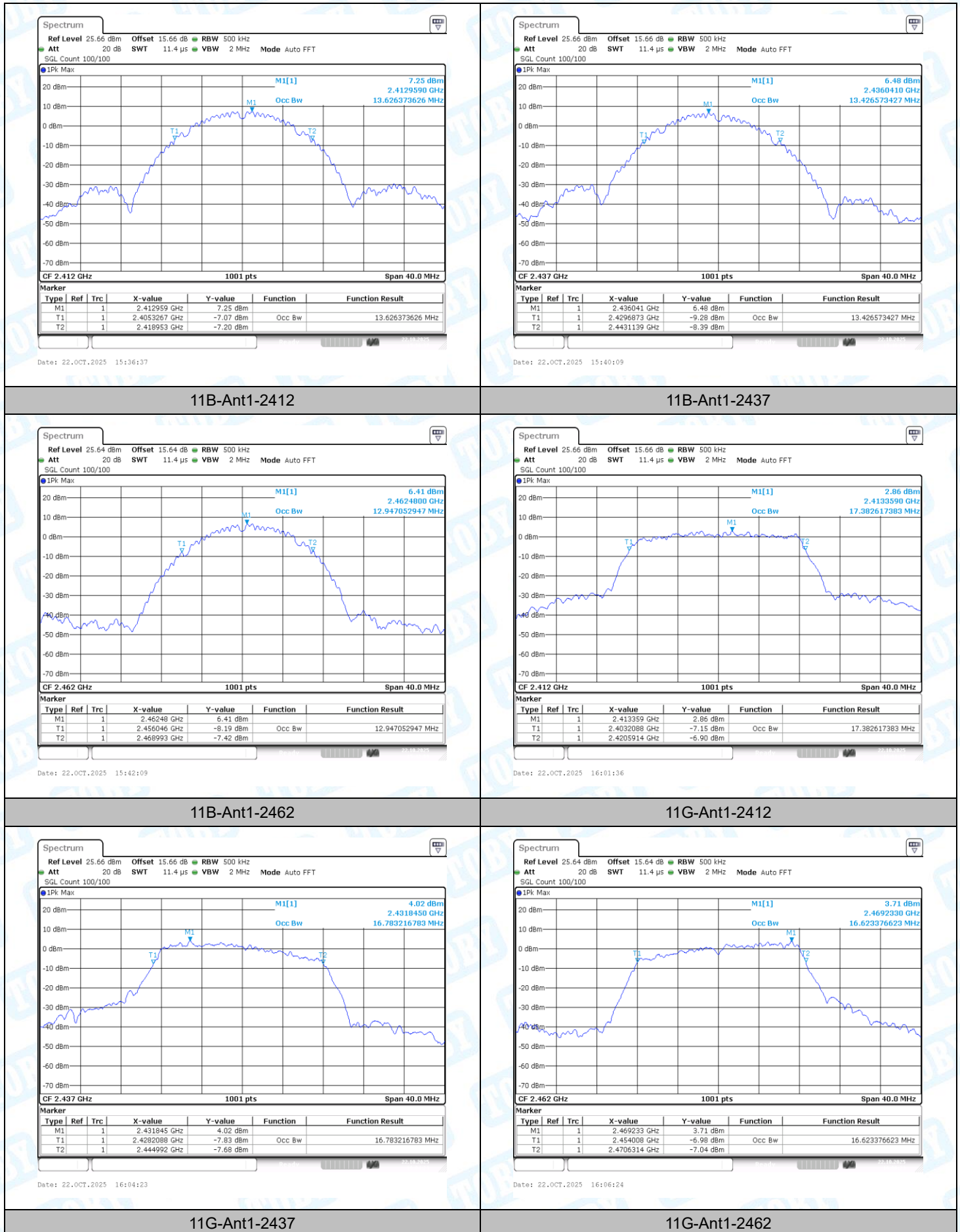
11N40SISO-Ant1-2452-PASS

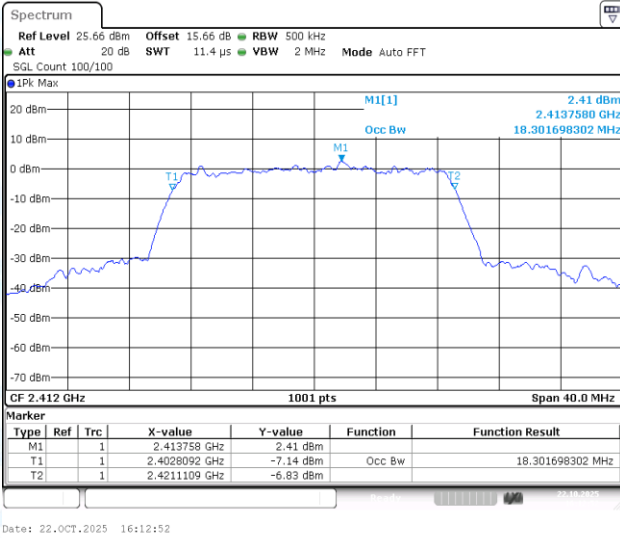
2: Occupied Channel Bandwidth

2.1 Test Result

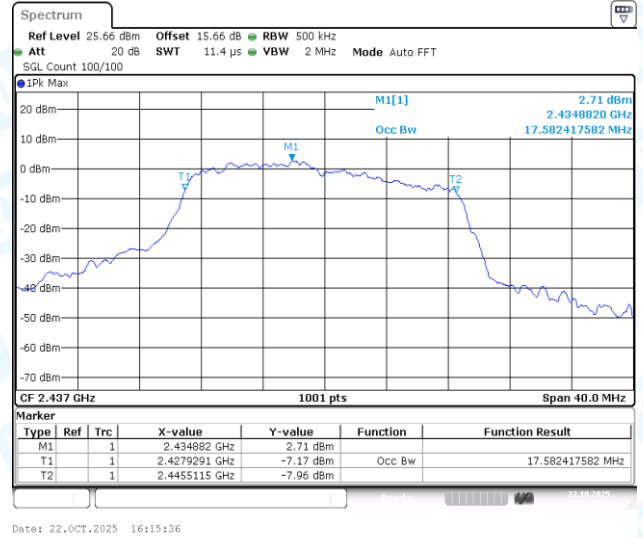
TestMode	Ant.	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.626	2405.3267	2418.9530	---	---
11B	Ant1	2437	13.427	2429.6873	2443.1139	---	---
11B	Ant1	2462	12.947	2456.0460	2468.9930	---	---
11G	Ant1	2412	17.383	2403.2088	2420.5914	---	---
11G	Ant1	2437	16.783	2428.2088	2444.9920	---	---
11G	Ant1	2462	16.623	2454.0080	2470.6314	---	---
11N20SISO	Ant1	2412	18.302	2402.8092	2421.1109	---	---
11N20SISO	Ant1	2437	17.582	2427.9291	2445.5115	---	---
11N20SISO	Ant1	2462	17.742	2453.4486	2471.1908	---	---
11N40SISO	Ant1	2422	36.124	2403.6983	2439.8222	---	---
11N40SISO	Ant1	2437	35.245	2419.3377	2454.5824	---	---
11N40SISO	Ant1	2452	37.163	2433.5385	2470.7013	---	---

2.2 Test Graphs

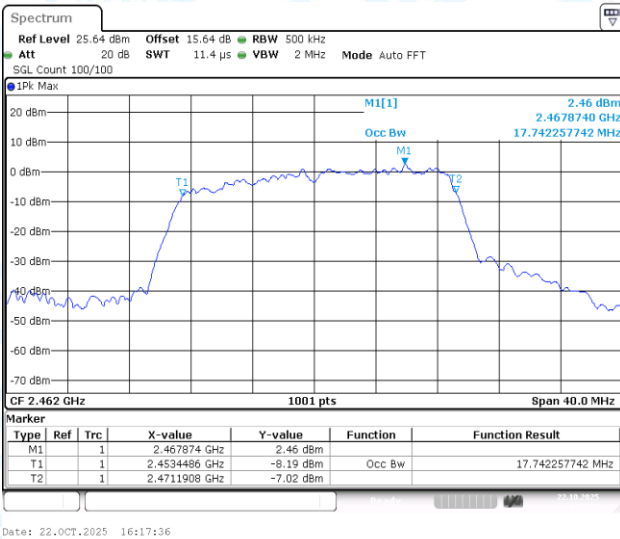




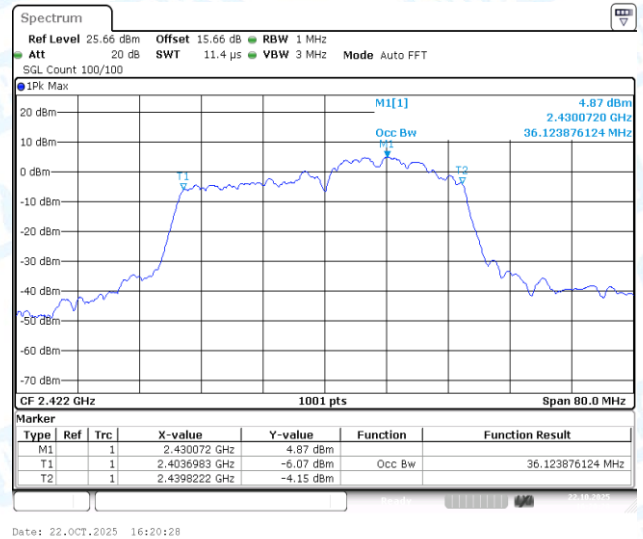
11N20SISO-Ant1-2412



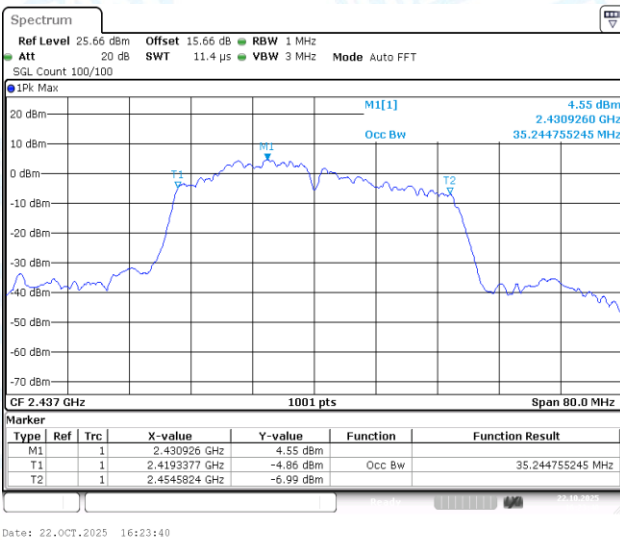
11N20SISO-Ant1-2437



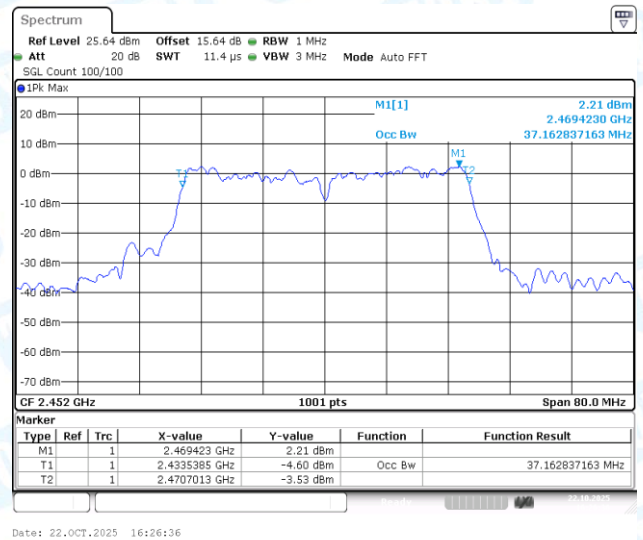
11N20SISO-Ant1-2462



11N40SISO-Ant1-2422



11N40SISO-Ant1-2437



11N40SISO-Ant1-2452

3: Maximum conducted output power

3.1 Test Result Average

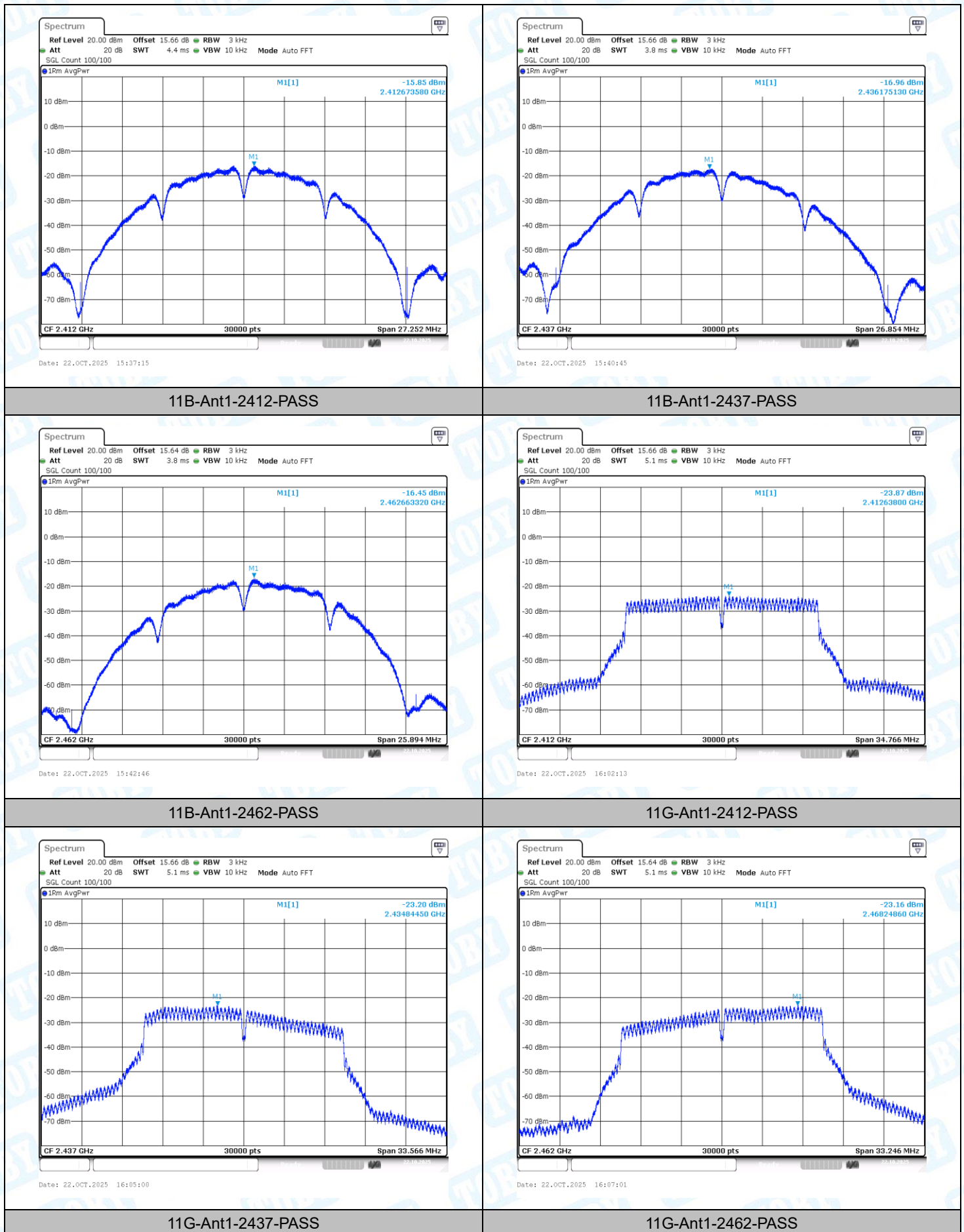
Test Mode	Ant.	Frequency [MHz]	Raw Power [dBm]	DC Factor	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.99	0.03	15.02	≤30.00	PASS
11B	Ant1	2437	13.78	0.02	13.80	≤30.00	PASS
11B	Ant1	2462	13.48	0.03	13.51	≤30.00	PASS
11G	Ant1	2412	10.33	0.12	10.45	≤30.00	PASS
11G	Ant1	2437	9.50	0.12	9.62	≤30.00	PASS
11G	Ant1	2462	9.99	0.15	10.14	≤30.00	PASS
11N20SISO	Ant1	2412	9.51	0.16	9.67	≤30.00	PASS
11N20SISO	Ant1	2437	8.86	0.13	8.99	≤30.00	PASS
11N20SISO	Ant1	2462	8.73	0.17	8.90	≤30.00	PASS
11N40SISO	Ant1	2422	9.34	0.33	9.67	≤30.00	PASS
11N40SISO	Ant1	2437	9.25	0.32	9.57	≤30.00	PASS
11N40SISO	Ant1	2452	8.92	0.26	9.18	≤30.00	PASS

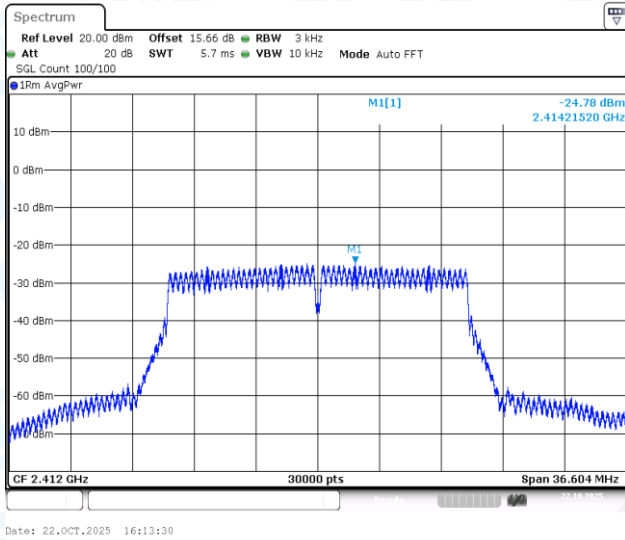
4: Maximum power spectral density

4.1 Test Result

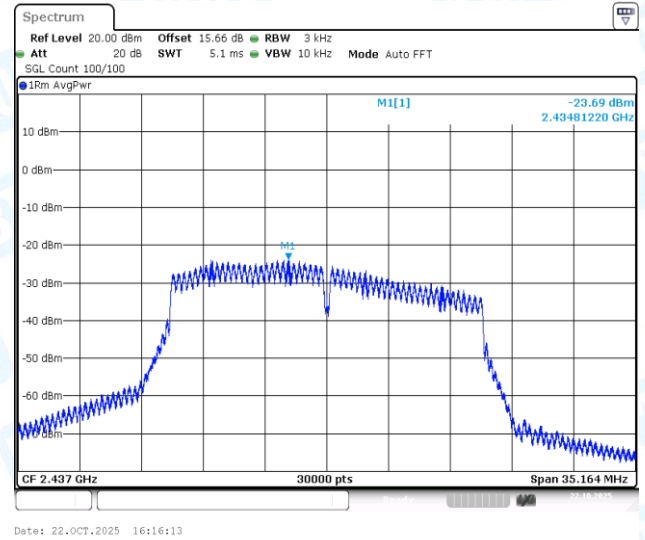
Test Mode	Ant.	Frequency[MHz]	RawData [dBm/3kHz]	DC Factor	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.85	0.03	-15.82	≤8.00	PASS
11B	Ant1	2437	-16.96	0.02	-16.94	≤8.00	PASS
11B	Ant1	2462	-16.45	0.03	-16.42	≤8.00	PASS
11G	Ant1	2412	-23.87	0.12	-23.75	≤8.00	PASS
11G	Ant1	2437	-23.2	0.12	-23.08	≤8.00	PASS
11G	Ant1	2462	-23.16	0.15	-23.01	≤8.00	PASS
11N20SISO	Ant1	2412	-24.78	0.16	-24.62	≤8.00	PASS
11N20SISO	Ant1	2437	-23.69	0.13	-23.56	≤8.00	PASS
11N20SISO	Ant1	2462	-23.85	0.17	-23.68	≤8.00	PASS
11N40SISO	Ant1	2422	-23.45	0.33	-23.12	≤8.00	PASS
11N40SISO	Ant1	2437	-22.8	0.32	-22.48	≤8.00	PASS
11N40SISO	Ant1	2452	-25.57	0.26	-25.31	≤8.00	PASS

4.2 Test Graphs

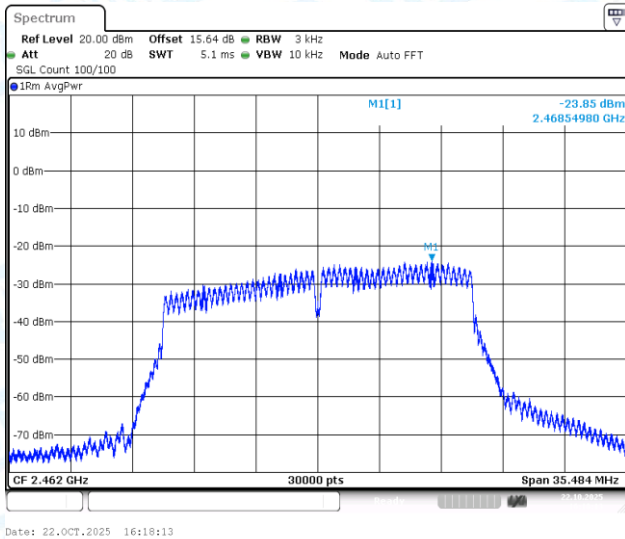




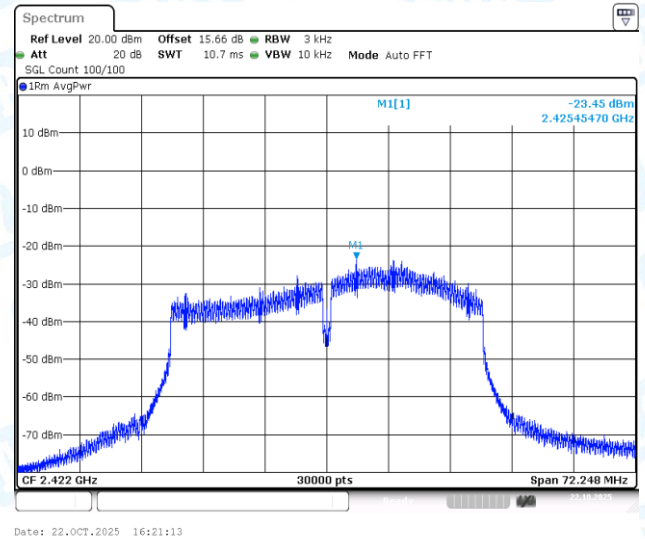
11N20SISO-Ant1-2412-PASS



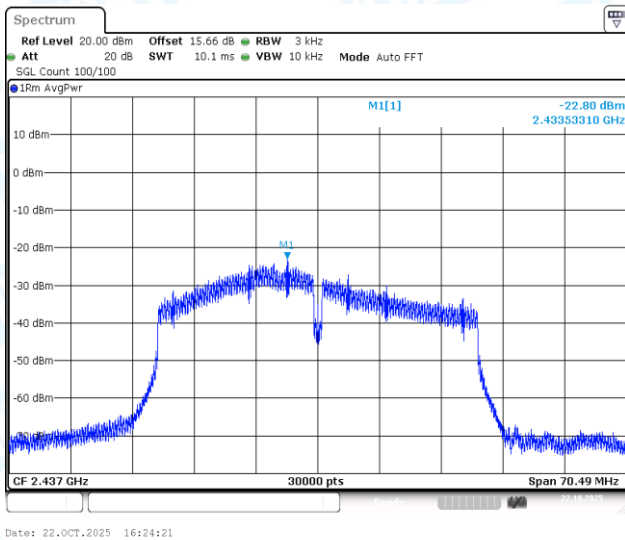
11N20SISO-Ant1-2437-PASS



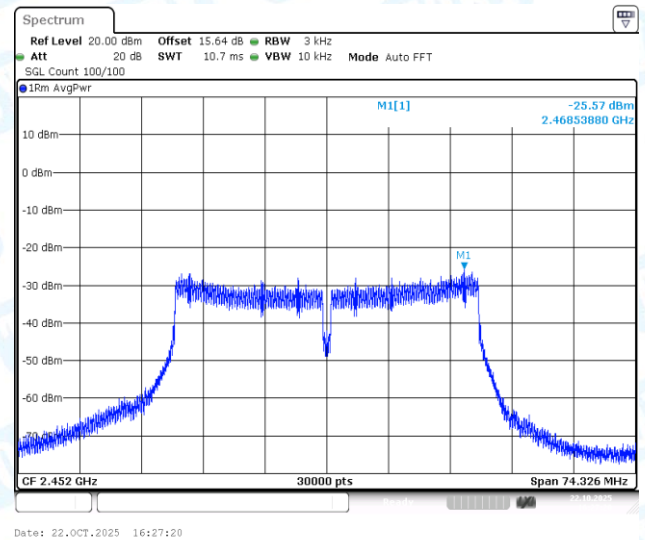
11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



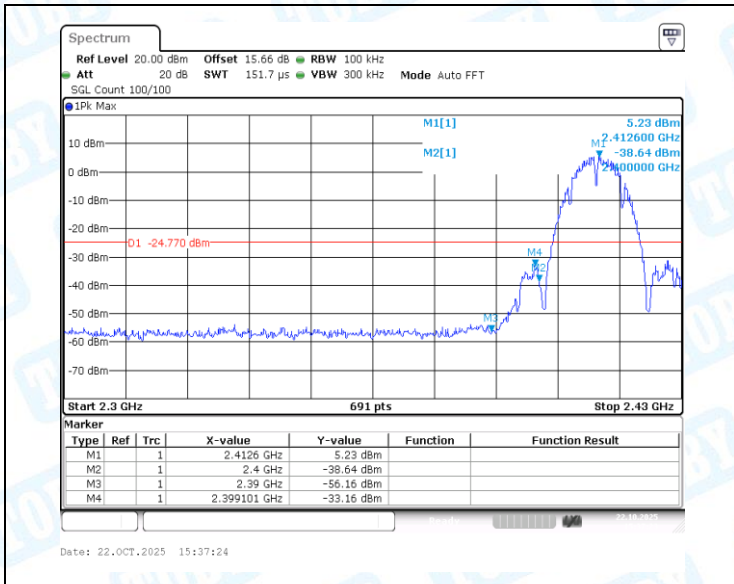
11N40SISO-Ant1-2452-PASS

5: Band edge measurements

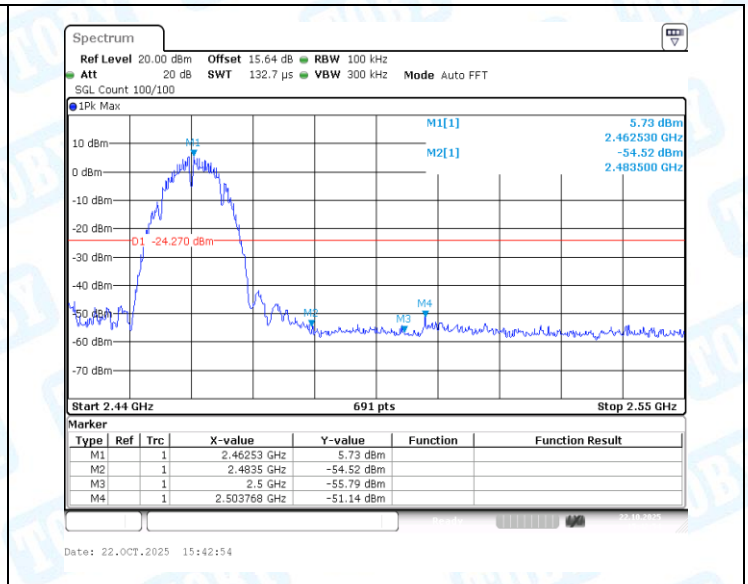
5.1 Test Result

Test Mode	Ant.	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.23	-33.16	≤-24.77	PASS
11B	Ant1	High	2462	5.73	-51.14	≤-24.27	PASS
11G	Ant1	Low	2412	-1.31	-32.83	≤-31.31	PASS
11G	Ant1	High	2462	-0.40	-51.71	≤-30.4	PASS
11N20SISO	Ant1	Low	2412	-3.01	-36.08	≤-33.01	PASS
11N20SISO	Ant1	High	2462	-2.74	-52.45	≤-32.74	PASS
11N40SISO	Ant1	Low	2422	-2.16	-41.56	≤-32.16	PASS
11N40SISO	Ant1	High	2452	-3.51	-44.65	≤-33.51	PASS

5.2 Test Graphs



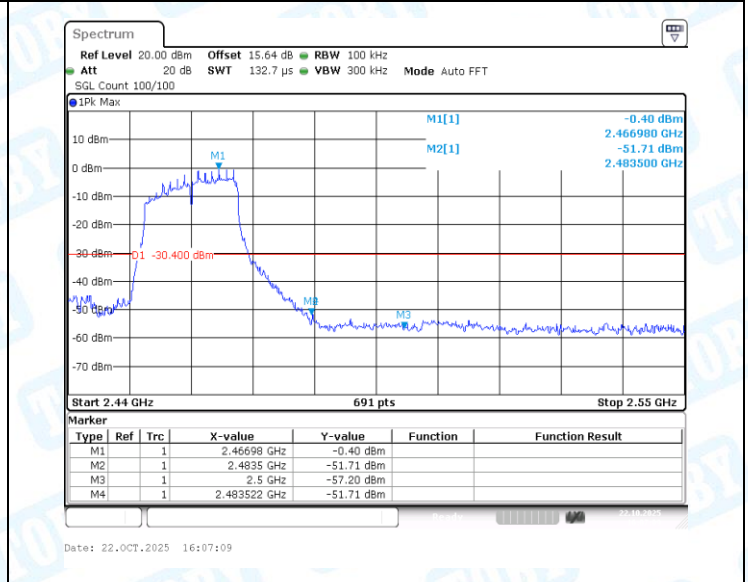
11B-Ant1-2412-PASS



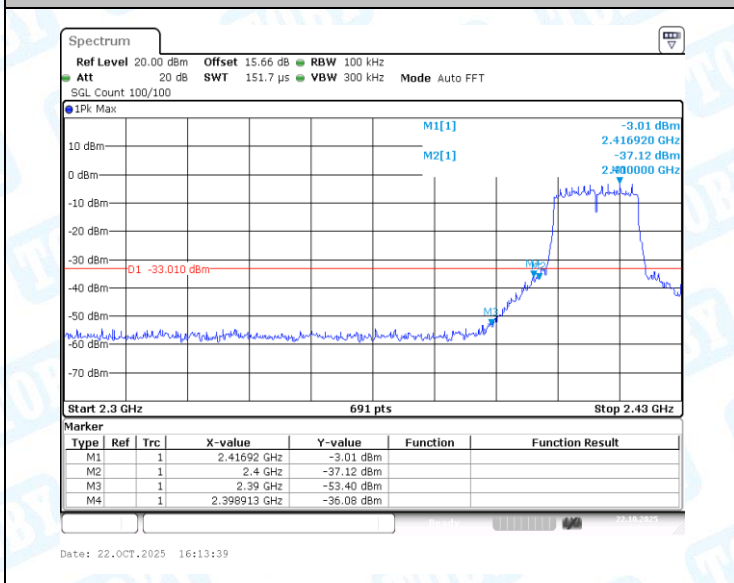
11B-Ant1-2462-PASS



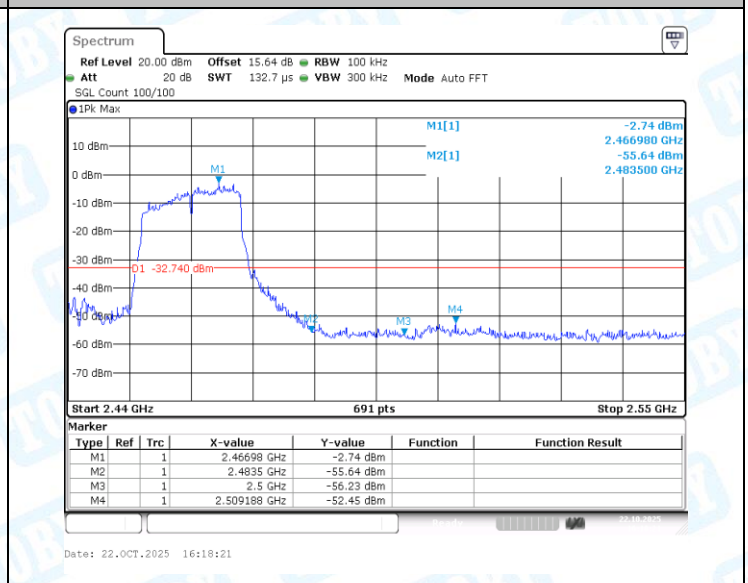
11G-Ant1-2412-PASS



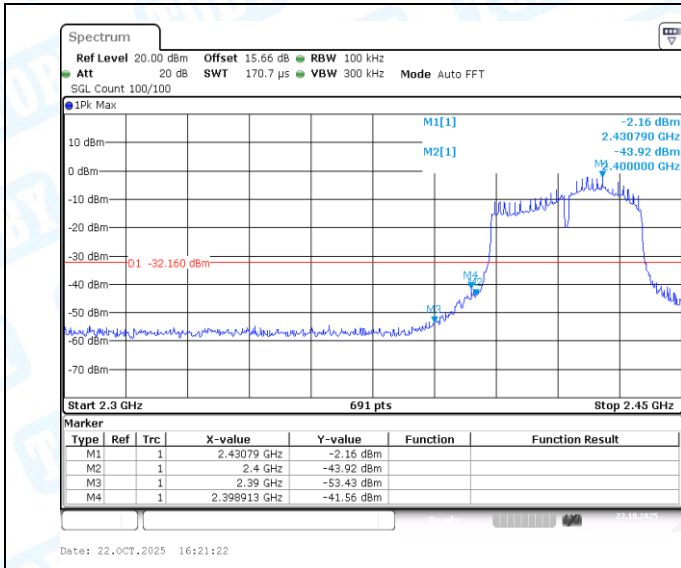
11G-Ant1-2462-PASS



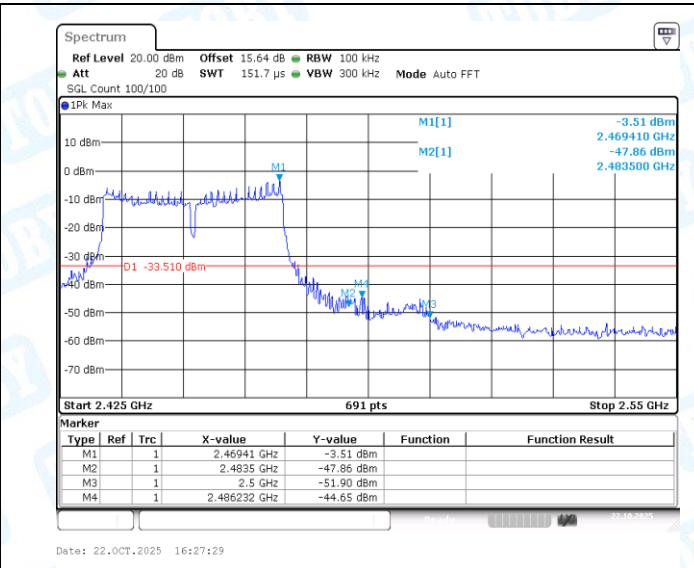
11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



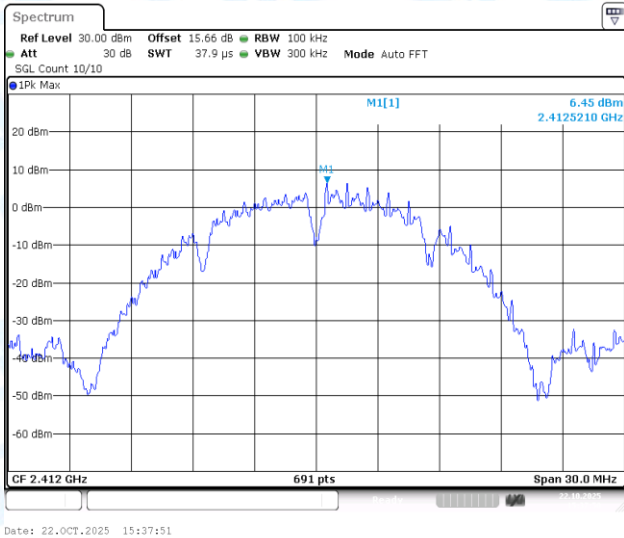
11N40SISO-Ant1-2452-PASS

6: Conducted Spurious Emission

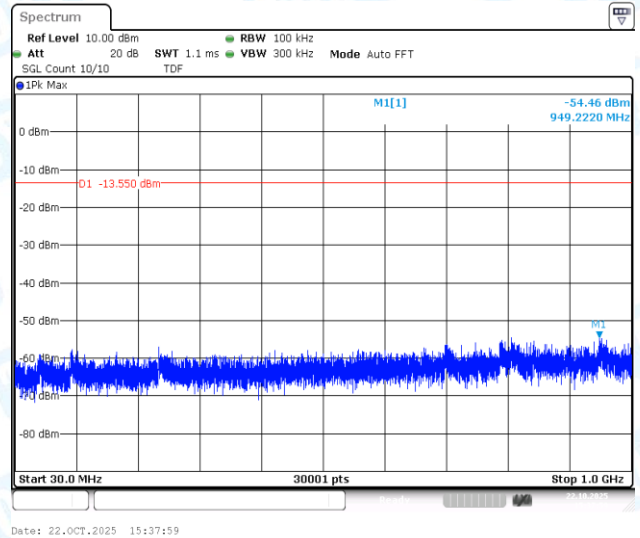
6.1 Test Result

TestMode	Ant.	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	6.45	6.45	---	PASS
11B	Ant1	2412	30~1000	6.45	-54.46	≤-13.55	PASS
11B	Ant1	2412	1000~26500	6.45	-35.6	≤-13.55	PASS
11B	Ant1	2437	0~Reference	3.31	3.31	---	PASS
11B	Ant1	2437	30~1000	3.31	-53.65	≤-16.69	PASS
11B	Ant1	2437	1000~26500	3.31	-37.23	≤-16.69	PASS
11B	Ant1	2462	0~Reference	3.90	3.90	---	PASS
11B	Ant1	2462	30~1000	3.90	-54	≤-16.1	PASS
11B	Ant1	2462	1000~26500	3.90	-37.18	≤-16.1	PASS
11G	Ant1	2412	0~Reference	-4.66	-4.66	---	PASS
11G	Ant1	2412	30~1000	-4.66	-51.87	≤-24.66	PASS
11G	Ant1	2412	1000~26500	-4.66	-30.11	≤-24.66	PASS
11G	Ant1	2437	0~Reference	-3.86	-3.86	---	PASS
11G	Ant1	2437	30~1000	-3.86	-54.73	≤-23.86	PASS
11G	Ant1	2437	1000~26500	-3.86	-36.93	≤-23.86	PASS
11G	Ant1	2462	0~Reference	-3.70	-3.70	---	PASS
11G	Ant1	2462	30~1000	-3.70	-53.66	≤-23.7	PASS
11G	Ant1	2462	1000~26500	-3.70	-36.84	≤-23.7	PASS
11N20SISO	Ant1	2412	0~Reference	-4.91	-4.91	---	PASS
11N20SISO	Ant1	2412	30~1000	-4.91	-53.81	≤-24.91	PASS
11N20SISO	Ant1	2412	1000~26500	-4.91	-37.62	≤-24.91	PASS
11N20SISO	Ant1	2437	0~Reference	-5.46	-5.46	---	PASS
11N20SISO	Ant1	2437	30~1000	-5.46	-53.96	≤-25.46	PASS
11N20SISO	Ant1	2437	1000~26500	-5.46	-36.09	≤-25.46	PASS
11N20SISO	Ant1	2462	0~Reference	-3.47	-3.47	---	PASS
11N20SISO	Ant1	2462	30~1000	-3.47	-54.53	≤-23.47	PASS
11N20SISO	Ant1	2462	1000~26500	-3.47	-36.78	≤-23.47	PASS
11N40SISO	Ant1	2422	0~Reference	-6.55	-6.55	---	PASS
11N40SISO	Ant1	2422	30~1000	-6.55	-53.76	≤-26.55	PASS
11N40SISO	Ant1	2422	1000~26500	-6.55	-36.79	≤-26.55	PASS
11N40SISO	Ant1	2437	0~Reference	-6.10	-6.10	---	PASS
11N40SISO	Ant1	2437	30~1000	-6.10	-54.26	≤-26.1	PASS
11N40SISO	Ant1	2437	1000~26500	-6.10	-37.21	≤-26.1	PASS
11N40SISO	Ant1	2452	0~Reference	-5.37	-5.37	---	PASS
11N40SISO	Ant1	2452	30~1000	-5.37	-53.89	≤-25.37	PASS
11N40SISO	Ant1	2452	1000~26500	-5.37	-37.7	≤-25.37	PASS

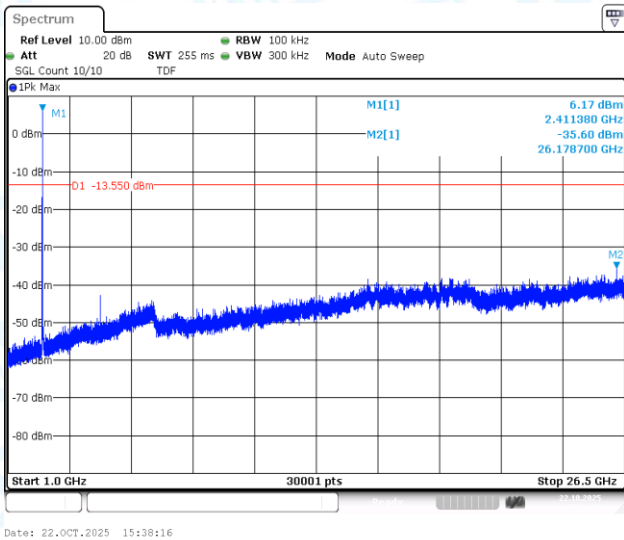
6.2 Test Graphs



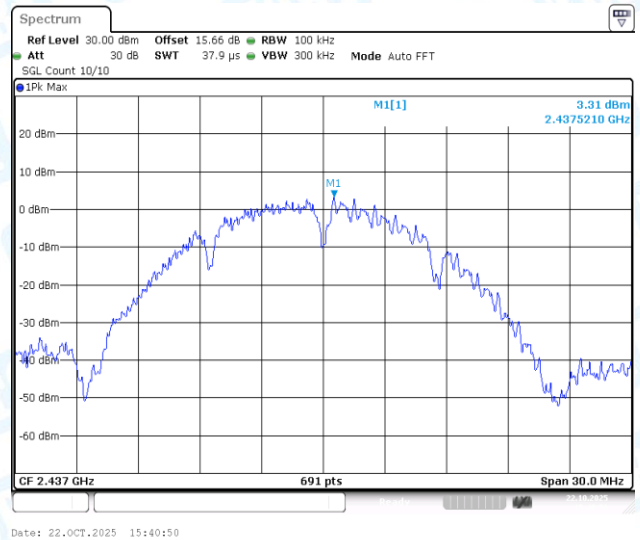
11B-Ant1-2412-0~Reference-PASS



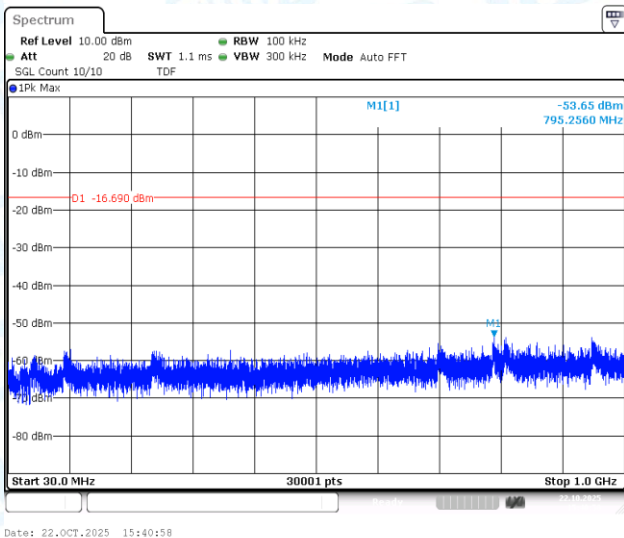
11B-Ant1-2412-30~1000-PASS



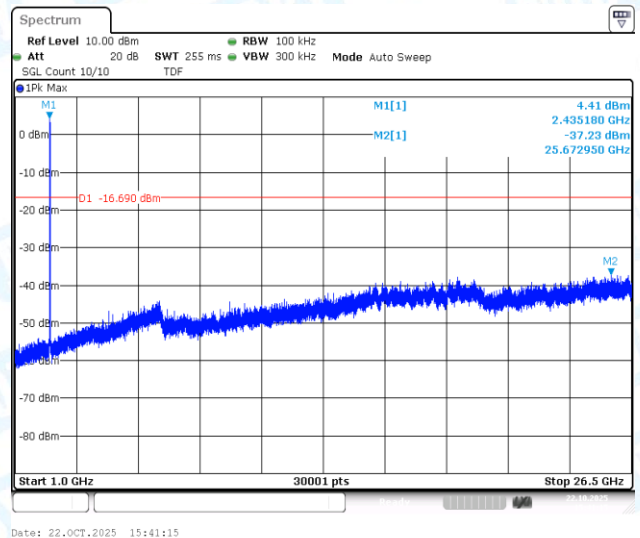
11B-Ant1-2412-1000~26500-PASS



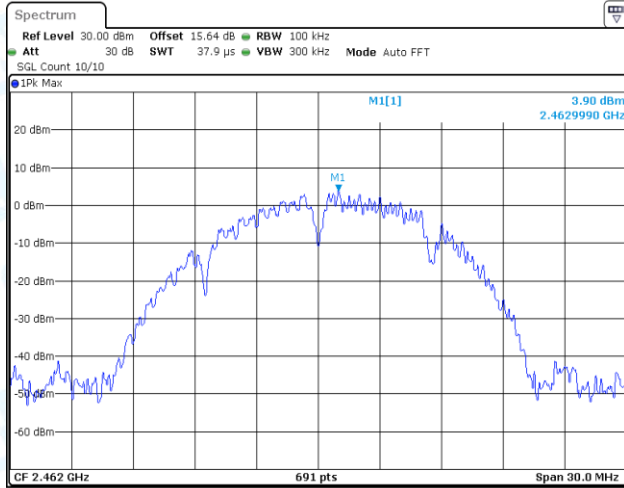
11B-Ant1-2437-0~Reference-PASS



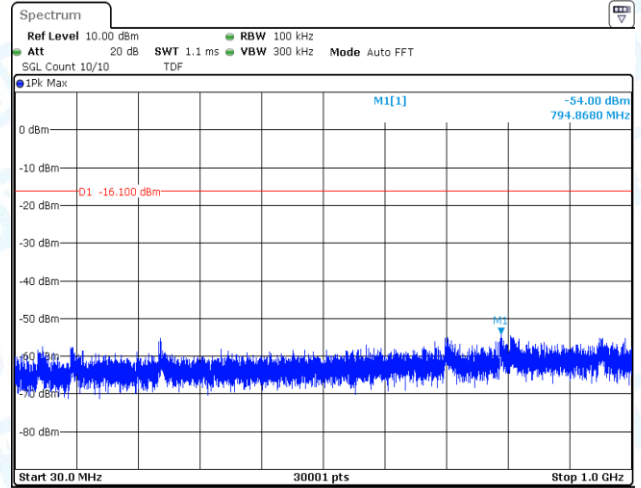
11B-Ant1-2437-30~1000-PASS



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



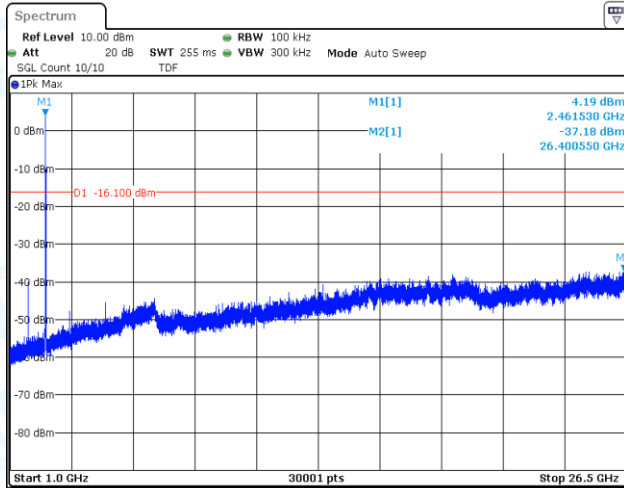
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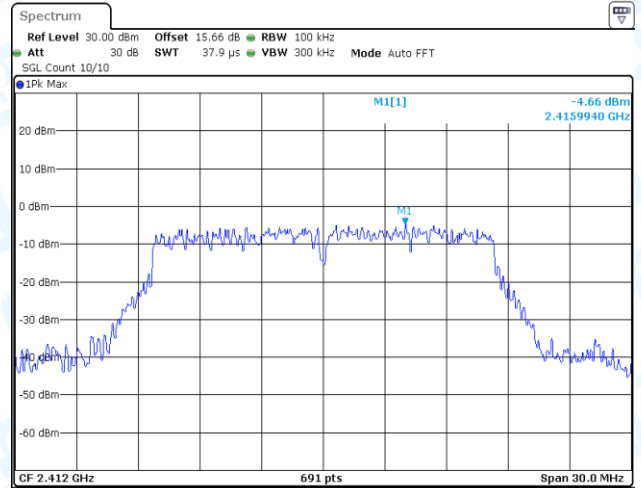
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11B-Ant1-2462-0~Reference-PASS

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



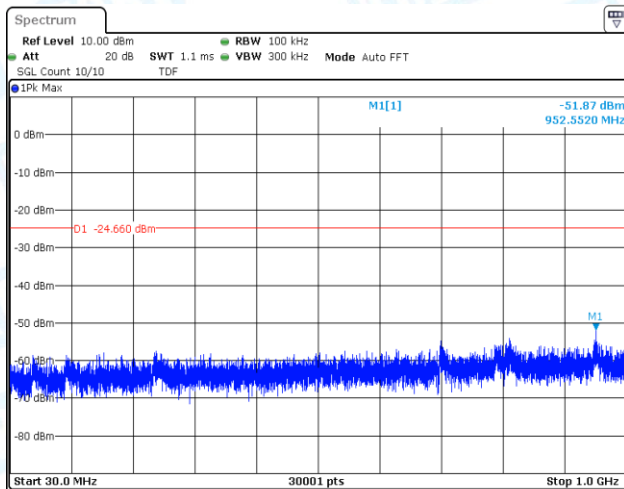
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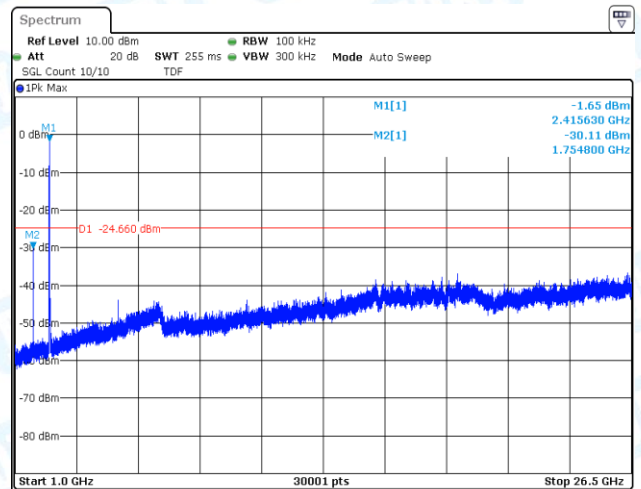
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11B-Ant1-2462-1000~26500-PASS

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



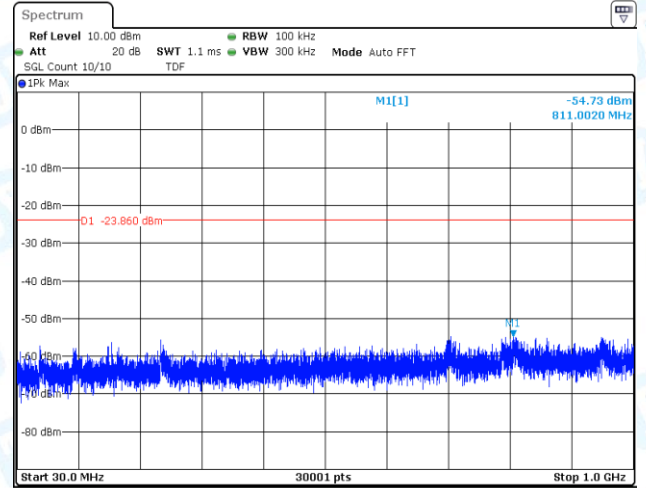
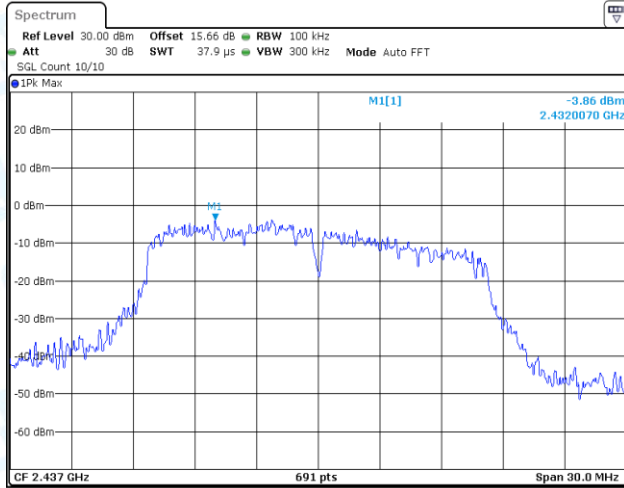
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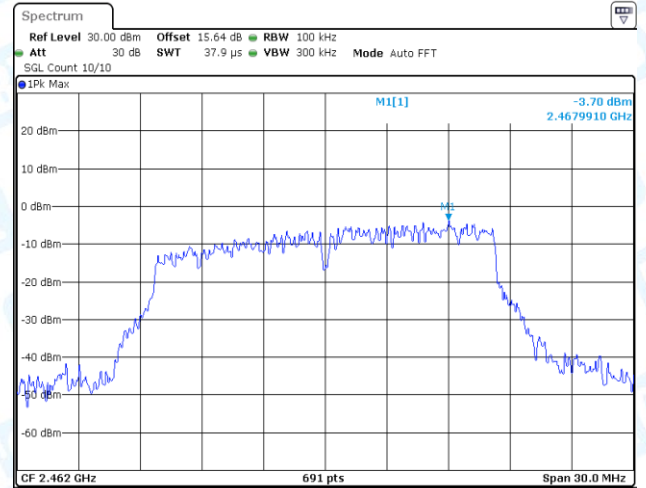
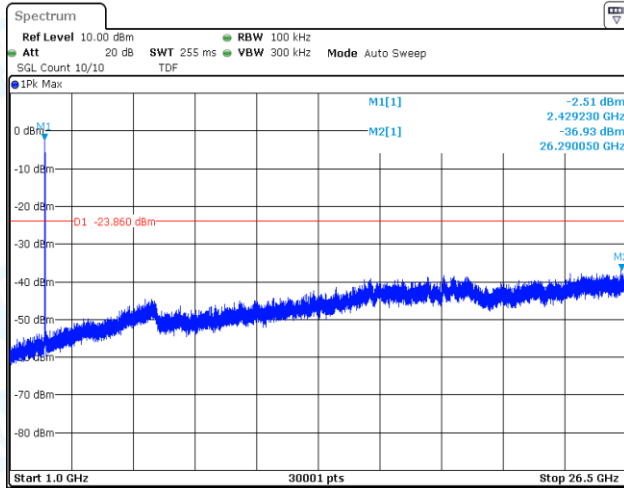
11G-Ant1-2412-30~1000-PASS

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



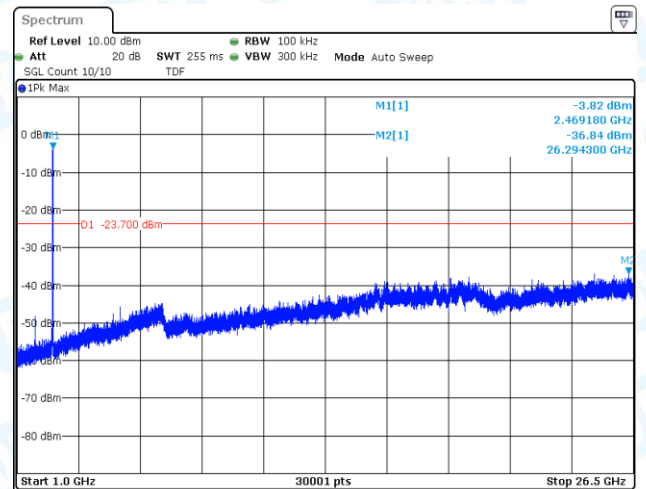
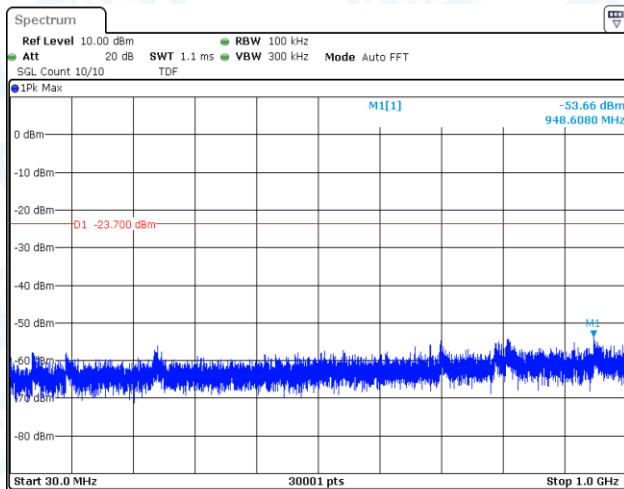
11G-Ant1-2437-0~Reference-PASS

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



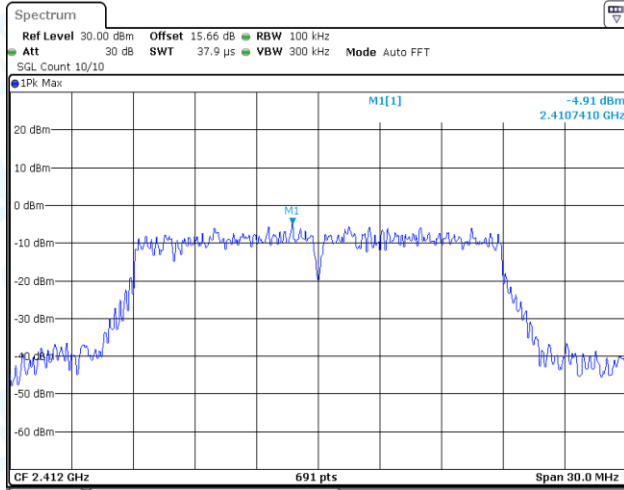
11G-Ant1-2437-1000~26500-PASS

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

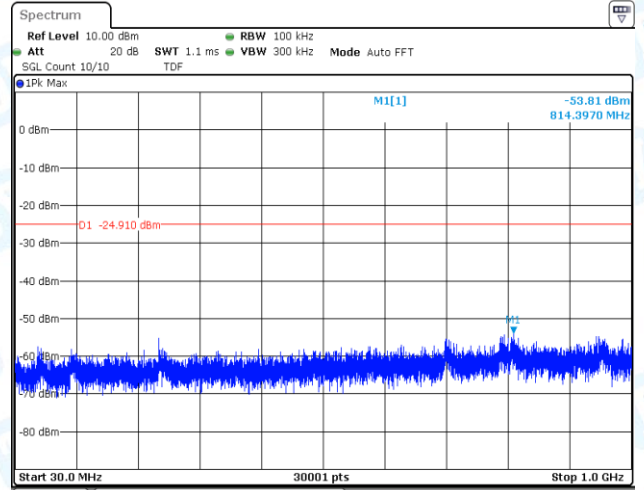


11G-Ant1-2462-30~1000-PASS

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



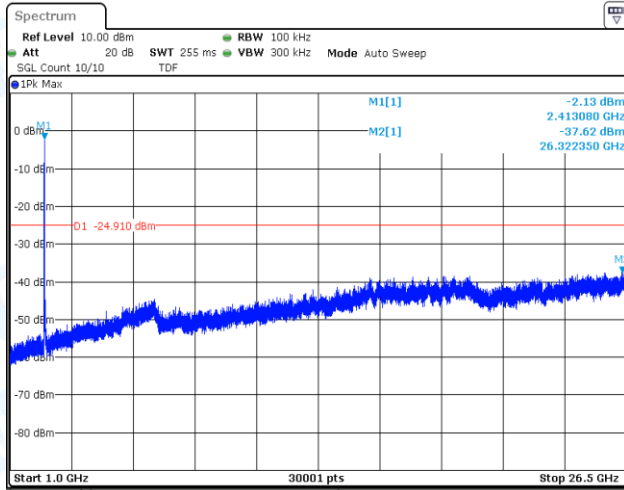
Date: 22.OCT.2025 16:14:06



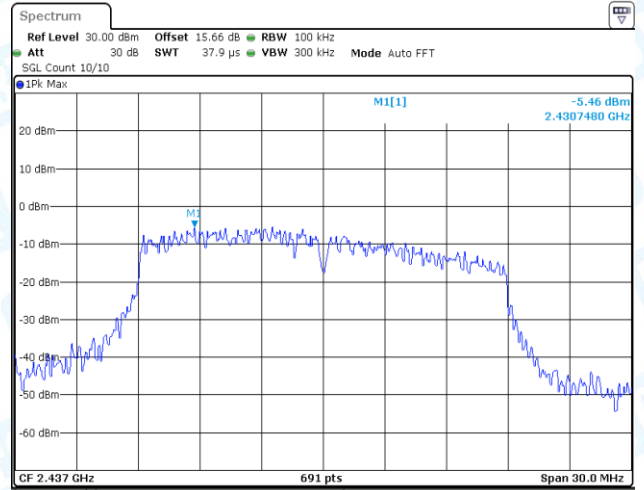
Date: 22.OCT.2025 16:14:14

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

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



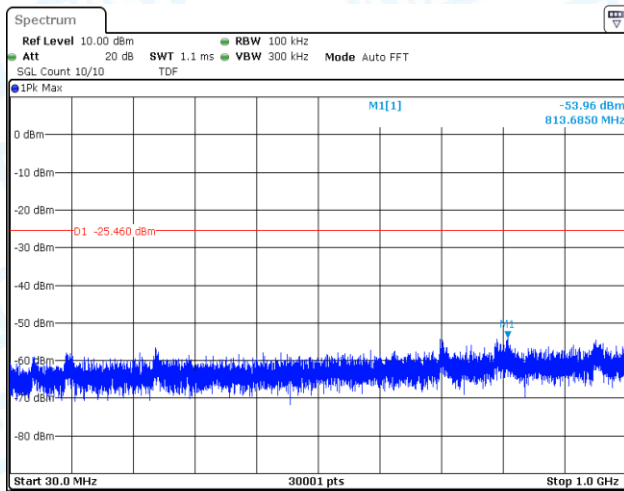
Date: 22.OCT.2025 16:14:31



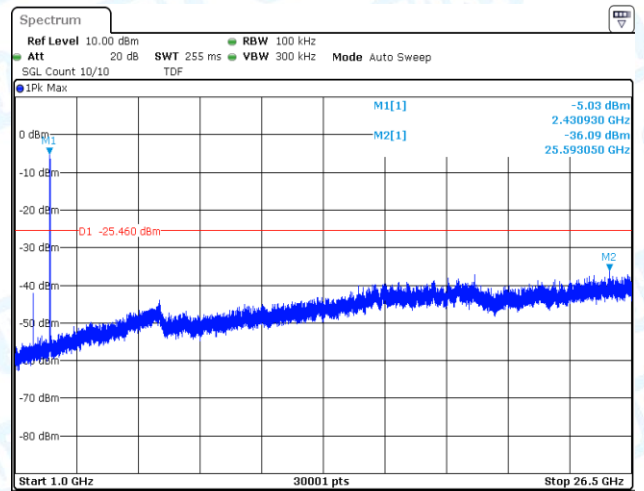
Date: 22.OCT.2025 16:16:17

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

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



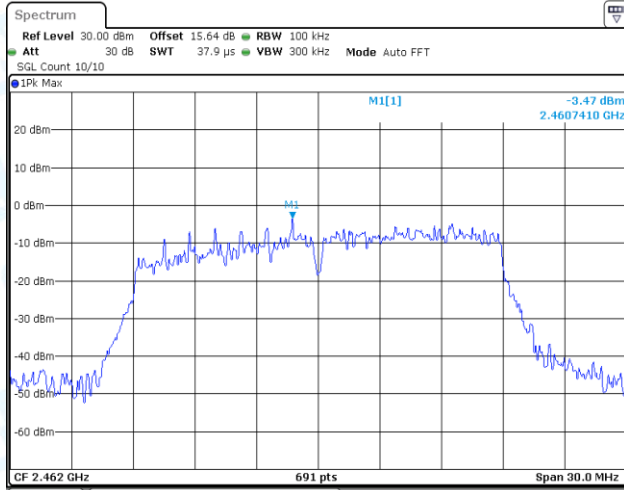
Date: 22.OCT.2025 16:16:25



Date: 22.OCT.2025 16:16:42

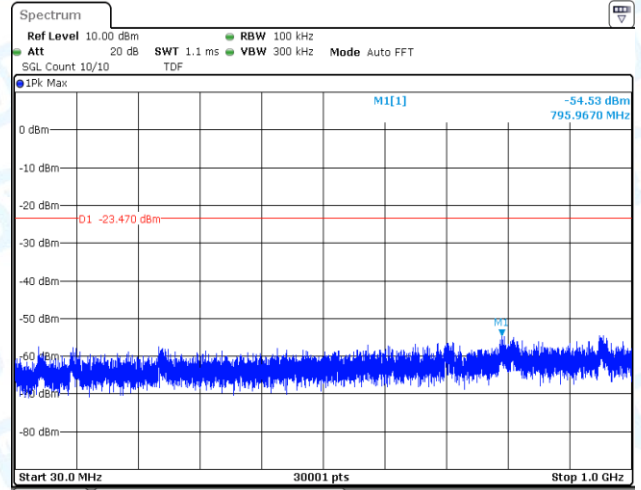
11N20SISO-Ant1-2437-30~1000-PASS

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



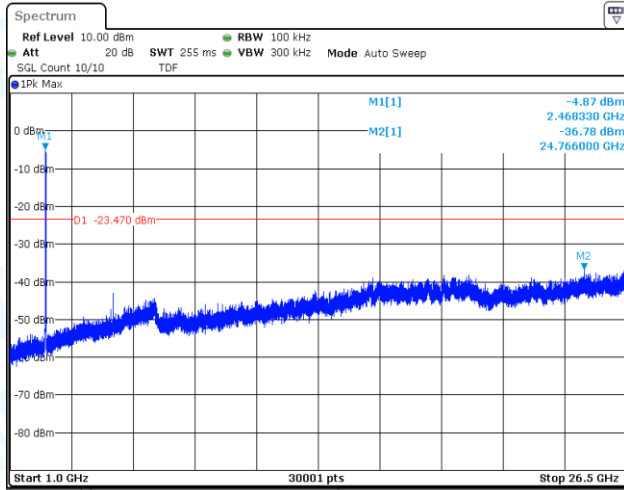
Date: 22.OCT.2025 16:18:46

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



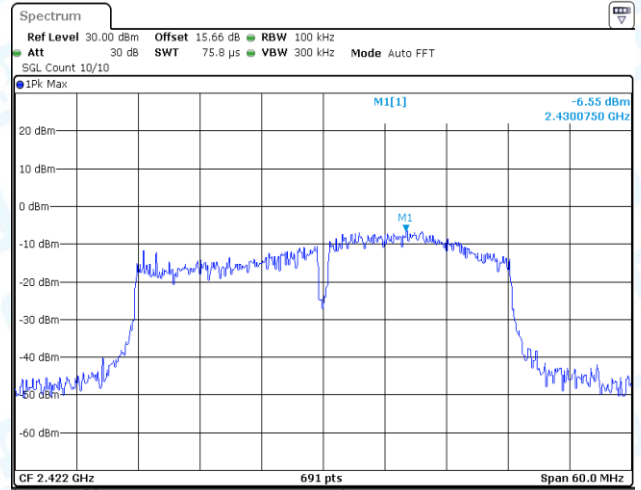
Date: 22.OCT.2025 16:18:54

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



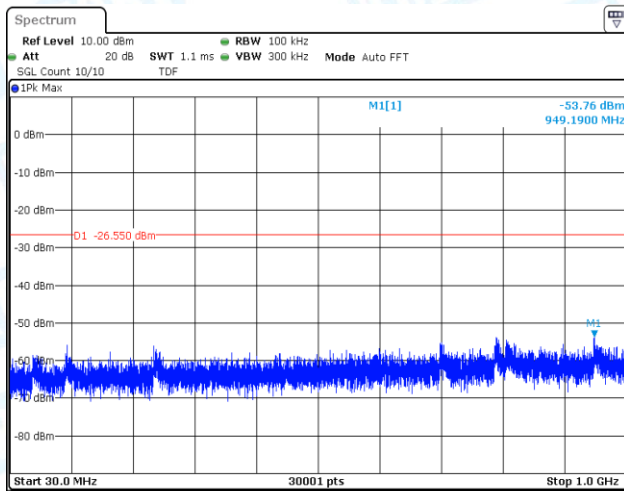
Date: 22.OCT.2025 16:19:12

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



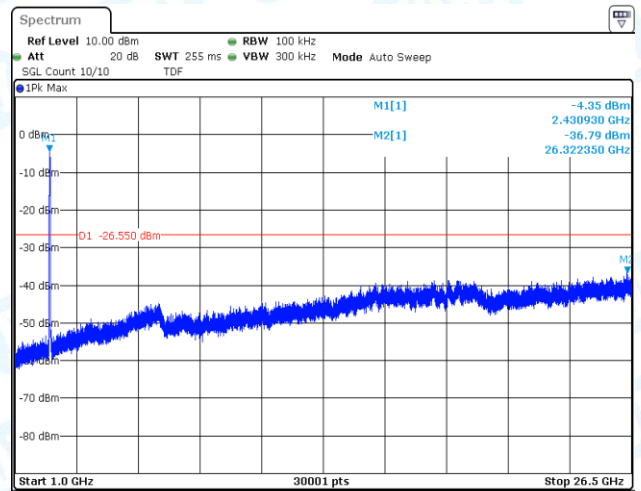
Date: 22.OCT.2025 16:21:50

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



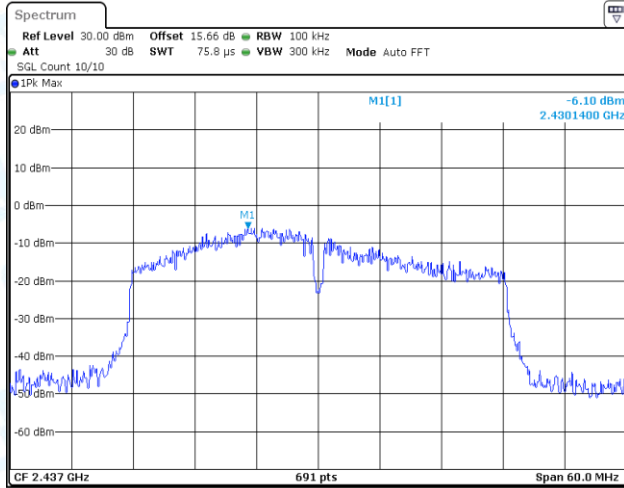
Date: 22.OCT.2025 16:21:58

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

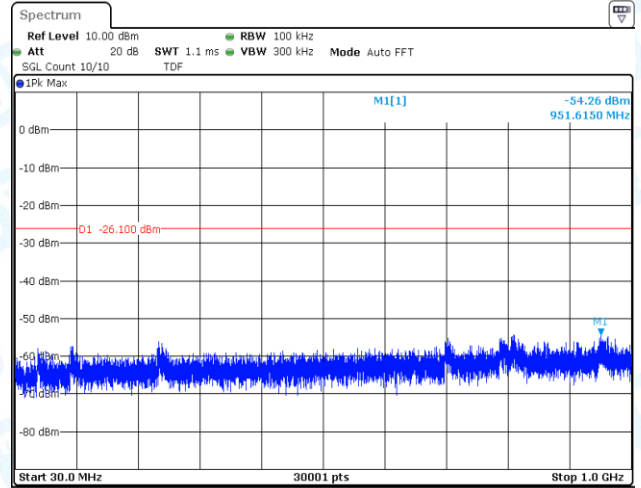


Date: 22.OCT.2025 16:22:15

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

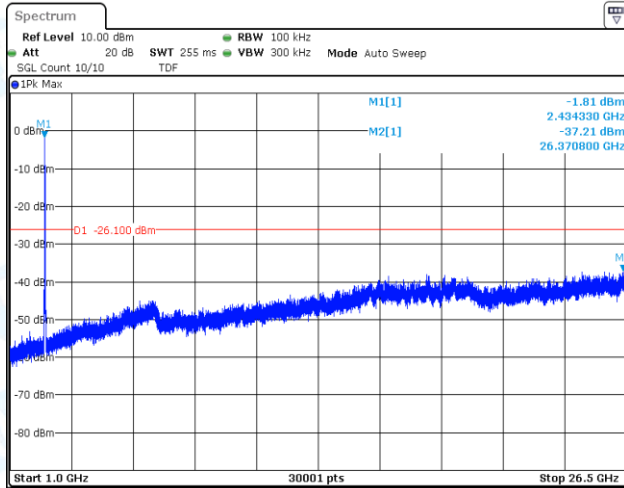


Date: 22.OCT.2025 16:24:26



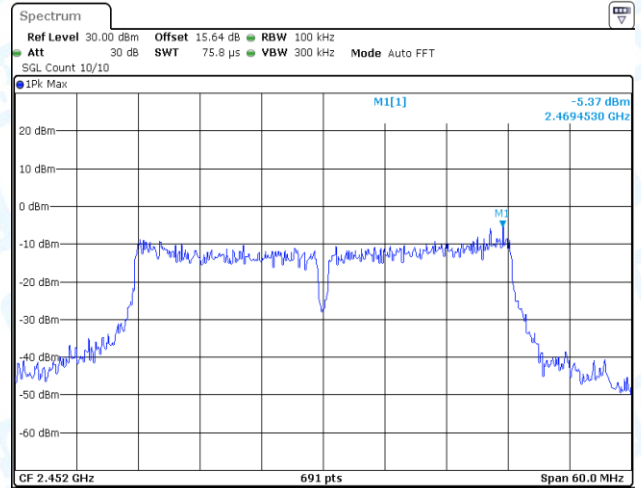
Date: 22.OCT.2025 16:24:34

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



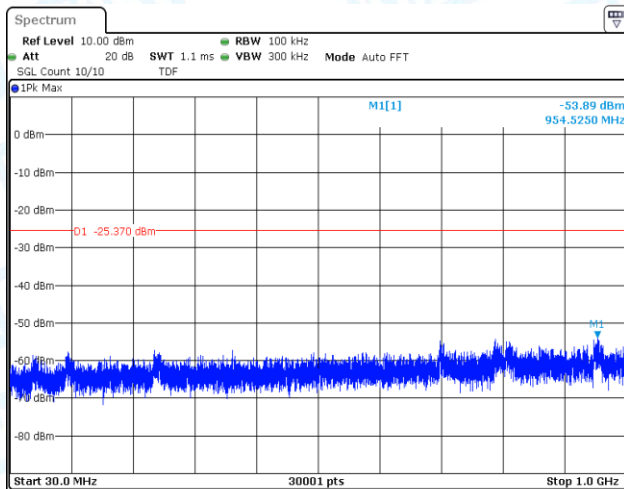
Date: 22.OCT.2025 16:24:51

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



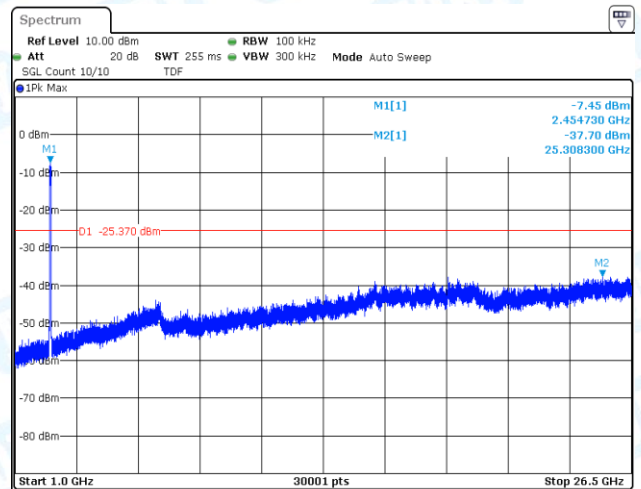
Date: 22.OCT.2025 16:27:56

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



Date: 22.OCT.2025 16:28:03

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



Date: 22.OCT.2025 16:28:21

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

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

7: Duty Cycle

7.1 Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor	1/T [kHz]
11B	Ant1	2412	8.38	8.43	99.41	0.03	0.12
11B	Ant1	2437	8.40	8.44	99.53	0.02	0.12
11B	Ant1	2462	8.38	8.43	99.41	0.03	0.12
11G	Ant1	2412	1.40	1.44	97.22	0.12	0.71
11G	Ant1	2437	1.40	1.44	97.22	0.12	0.71
11G	Ant1	2462	1.39	1.44	96.53	0.15	0.72
11N20SISO	Ant1	2412	1.30	1.35	96.30	0.16	0.77
11N20SISO	Ant1	2437	1.30	1.34	97.01	0.13	0.77
11N20SISO	Ant1	2462	1.29	1.34	96.27	0.17	0.78
11N40SISO	Ant1	2422	0.64	0.69	92.75	0.33	1.56
11N40SISO	Ant1	2437	0.65	0.70	92.86	0.32	1.54
11N40SISO	Ant1	2452	0.65	0.69	94.20	0.26	1.54

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

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

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