

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

General Description of EUT	
EUT Name:	Pan-Tilt Indoor Camera
Model:	SF-C2
Sample ID:	HC-C-202501-0221-01-01
Test Standard:	FCC Part 15.247
Environmental Conditions	
Ambient Temperature:	25°C
Ambient Humidity:	45%RH
Test Power Supply:	DC 5V
Test Engineer:	Rick Chen
Note: For a more detailed features description, please refer to the report TBR-C-202501-0021-6	

Contents

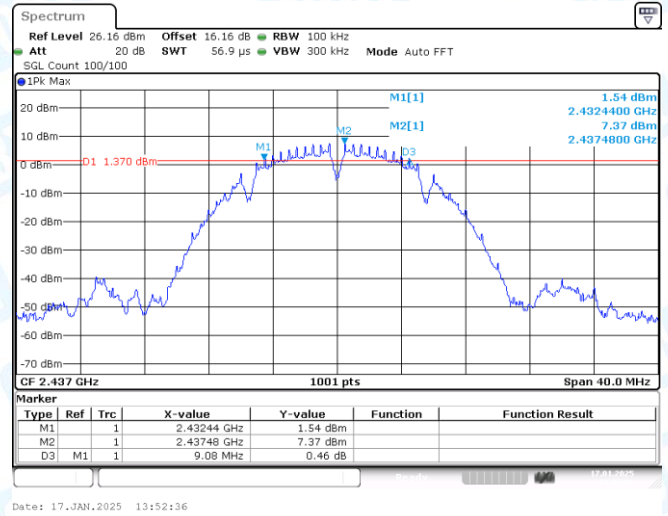
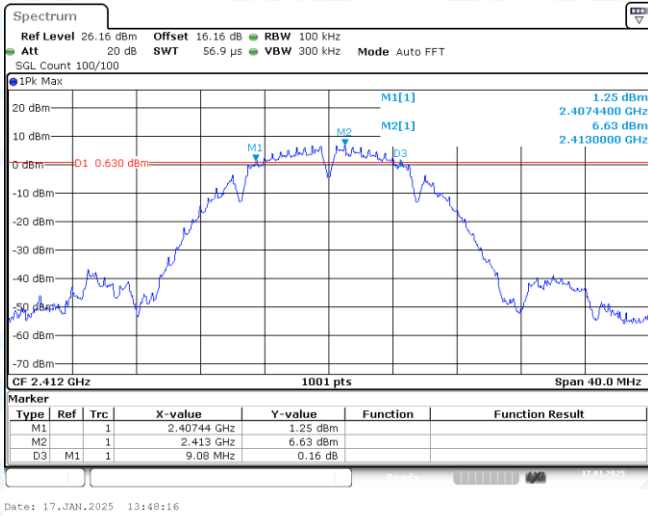
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1: DTS Bandwidth

1.1 Test Result

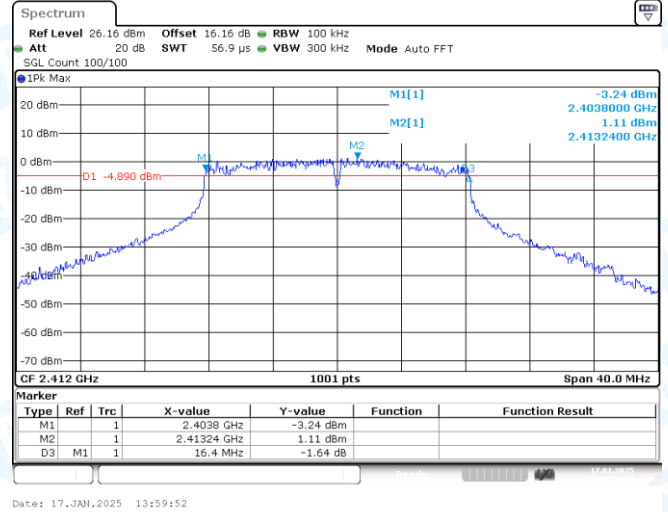
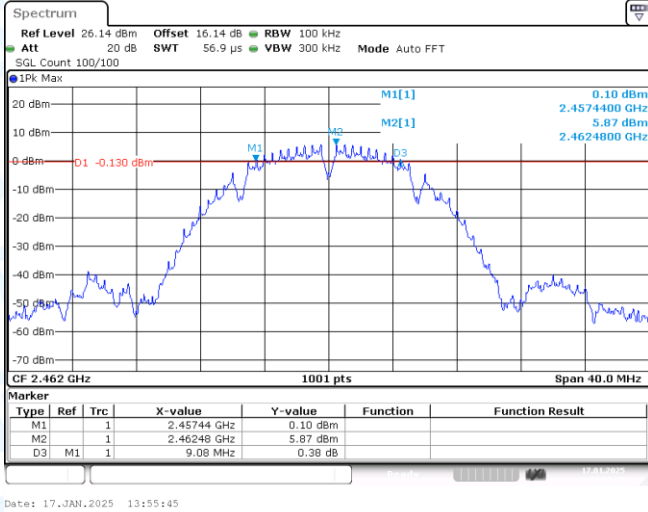
TestMode	Ant.	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.08	2407.44	2416.52	0.5	PASS
11B	Ant1	2437	9.08	2432.44	2441.52	0.5	PASS
11B	Ant1	2462	9.08	2457.44	2466.52	0.5	PASS
11G	Ant1	2412	16.40	2403.80	2420.20	0.5	PASS
11G	Ant1	2437	16.04	2429.08	2445.12	0.5	PASS
11G	Ant1	2462	16.44	2453.72	2470.16	0.5	PASS
11N20SISO	Ant1	2412	16.60	2403.48	2420.08	0.5	PASS
11N20SISO	Ant1	2437	17.68	2428.12	2445.80	0.5	PASS
11N20SISO	Ant1	2462	17.64	2453.20	2470.84	0.5	PASS
11N40SISO	Ant1	2422	35.36	2404.16	2439.52	0.5	PASS
11N40SISO	Ant1	2437	36.48	2418.76	2455.24	0.5	PASS
11N40SISO	Ant1	2452	36.40	2433.76	2470.16	0.5	PASS
11AX20SISO	Ant1	2412	16.40	2403.16	2419.56	0.5	PASS
11AX20SISO	Ant1	2437	18.84	2427.48	2446.32	0.5	PASS
11AX20SISO	Ant1	2462	18.72	2452.48	2471.20	0.5	PASS
11AX40SISO	Ant1	2422	36.56	2404.16	2440.72	0.5	PASS
11AX40SISO	Ant1	2437	35.44	2419.16	2454.60	0.5	PASS
11AX40SISO	Ant1	2452	33.52	2434.48	2468.00	0.5	PASS

1.2 Test Graphs



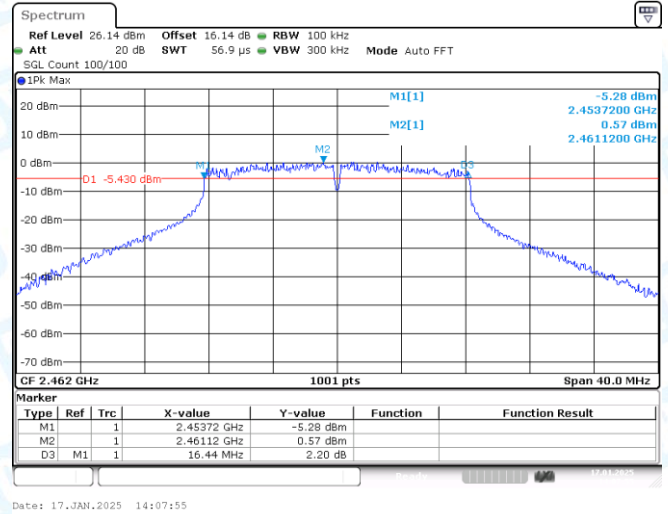
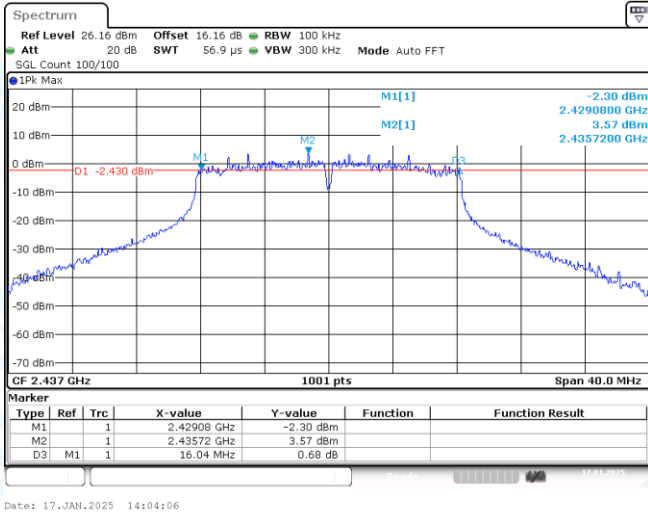
11B-Ant1-2412-PASS

11B-Ant1-2437-PASS



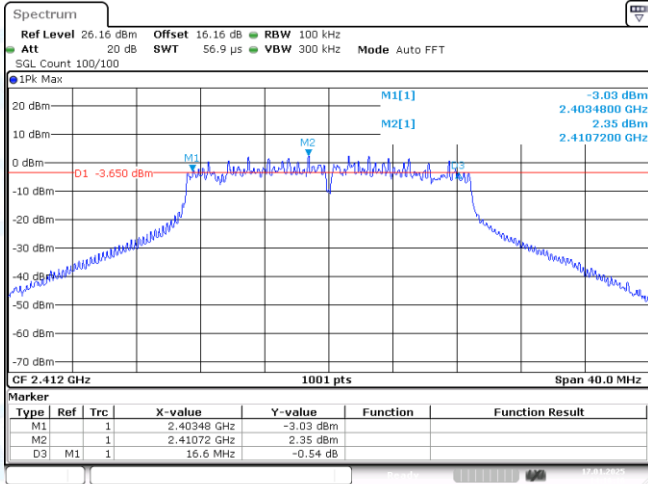
11B-Ant1-2462-PASS

11G-Ant1-2412-PASS

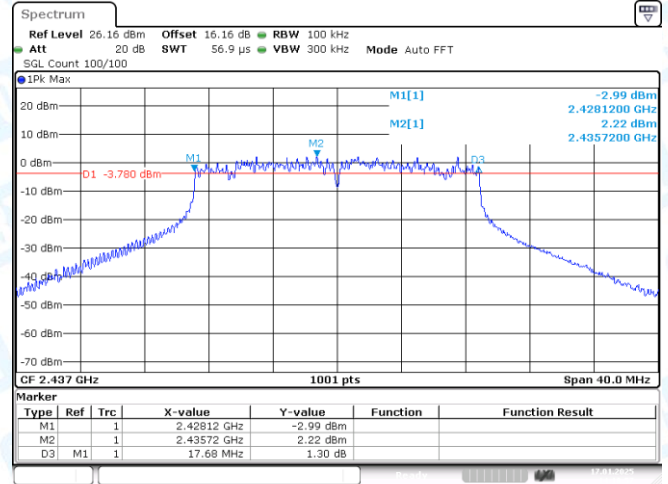


11G-Ant1-2437-PASS

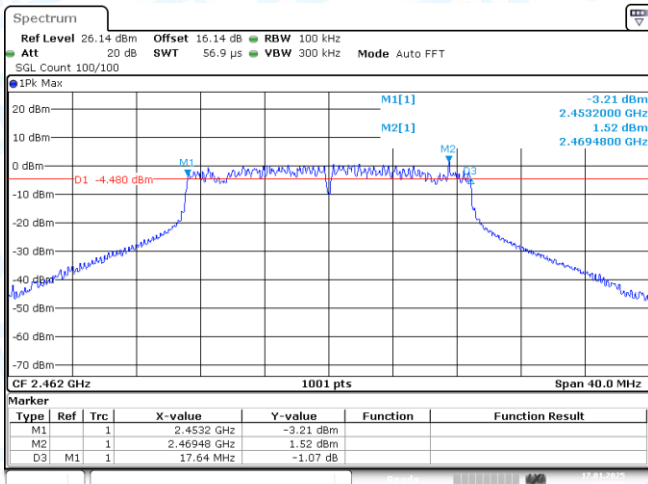
11G-Ant1-2462-PASS



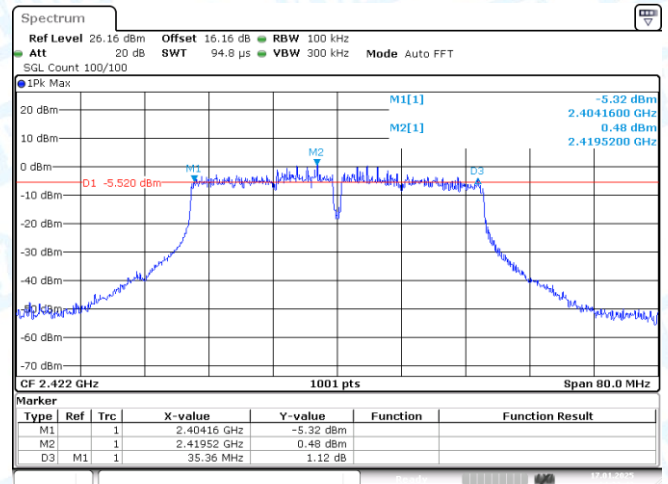
11N20SISO-Ant1-2412-PASS



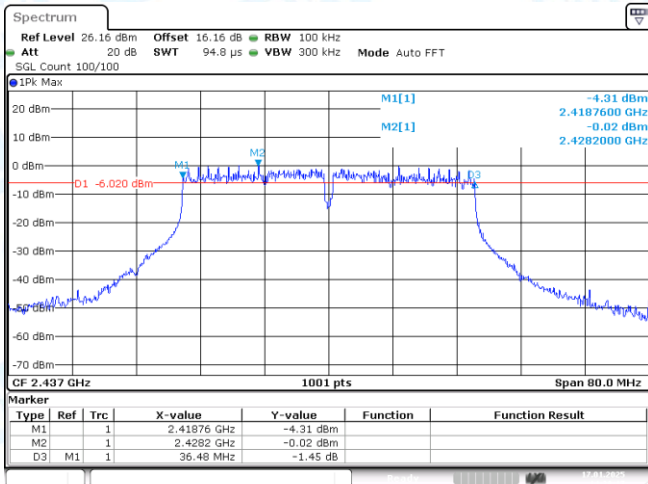
11N20SISO-Ant1-2437-PASS



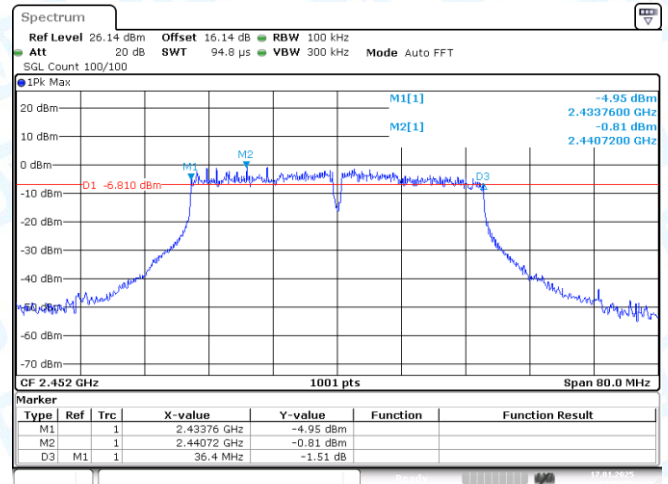
11N20SISO-Ant1-2462-PASS



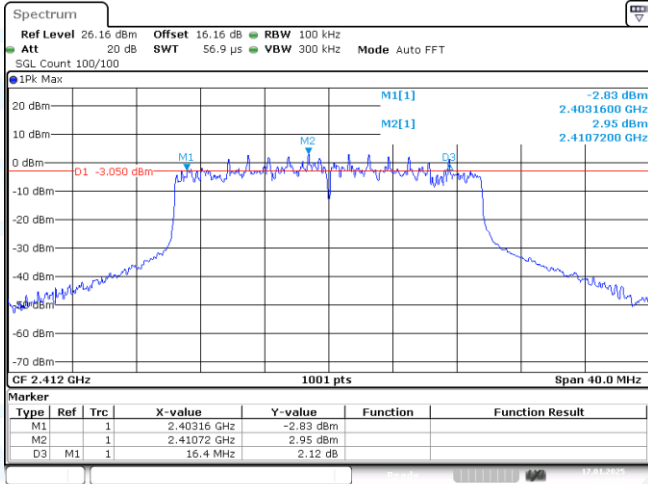
11N40SISO-Ant1-2422-PASS



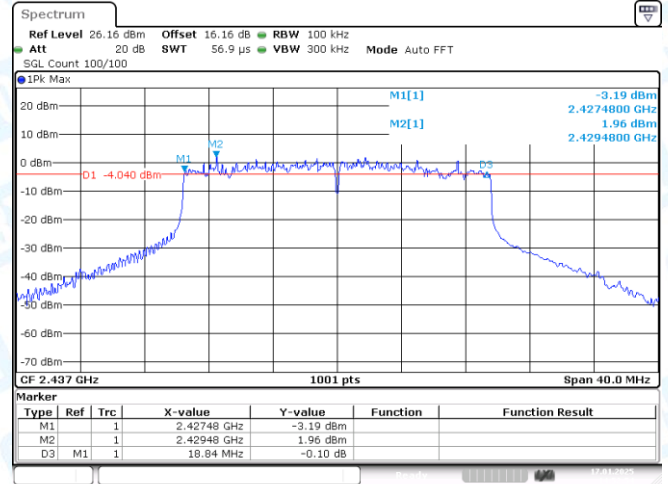
11N40SISO-Ant1-2437-PASS



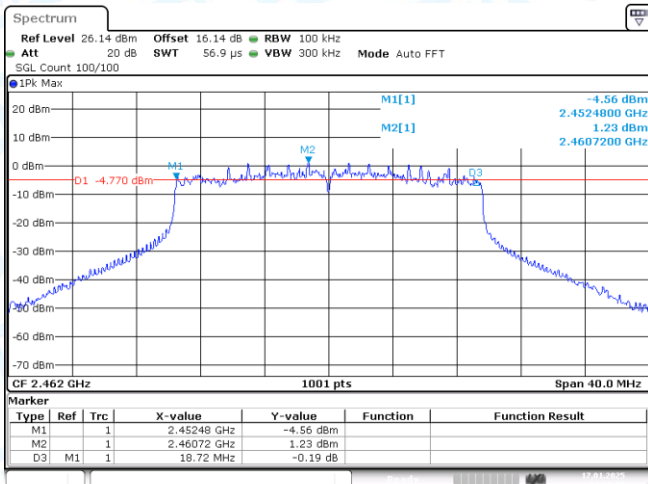
11N40SISO-Ant1-2452-PASS



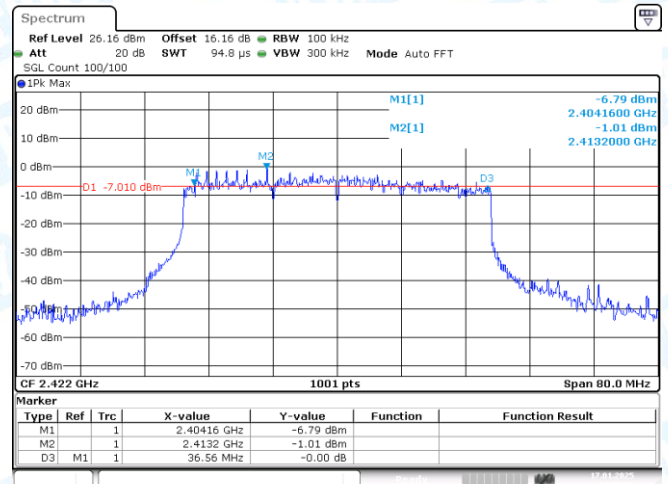
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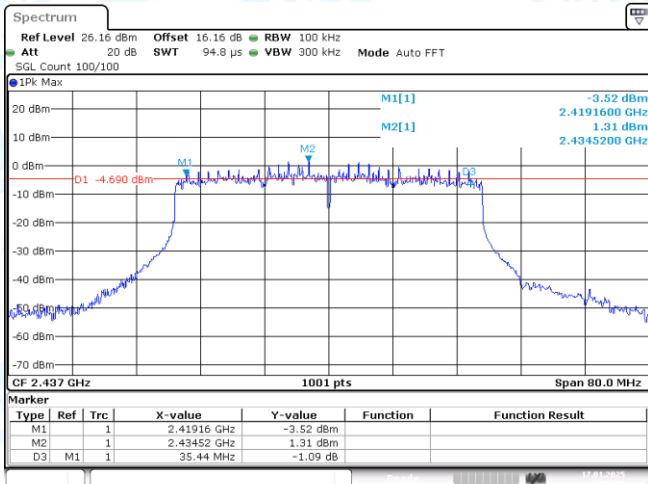
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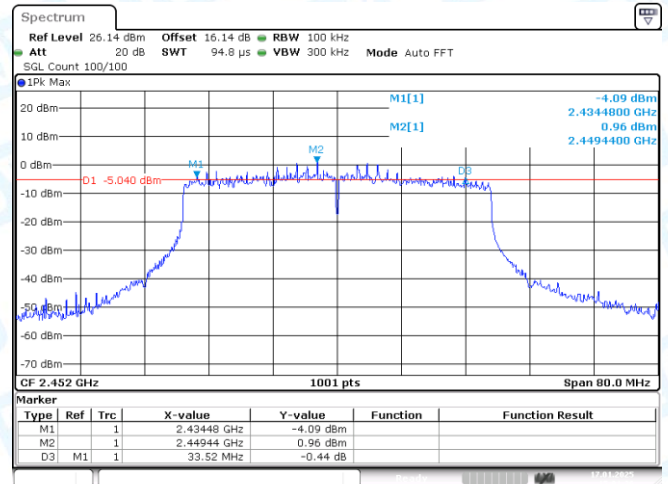
11AX20ISO-Ant1-2462-PASS



11AX40ISO-Ant1-2422-PASS



11AX40ISO-Ant1-2437-PASS



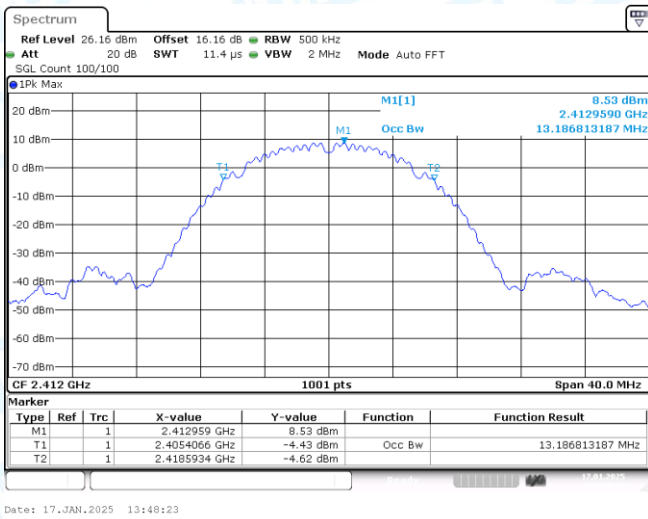
11AX40ISO-Ant1-2452-PASS

2: Occupied Channel Bandwidth

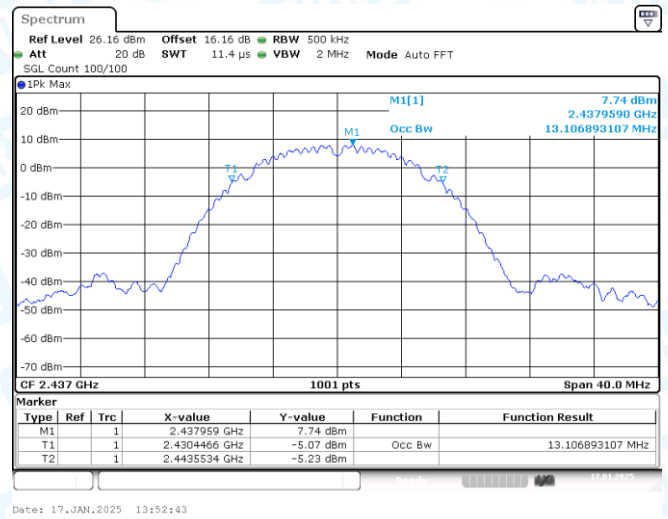
2.1 Test Result

TestMode	Ant.	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.187	2405.4066	2418.5934	---	---
11B	Ant1	2437	13.107	2430.4466	2443.5534	---	---
11B	Ant1	2462	13.107	2455.4466	2468.5534	---	---
11G	Ant1	2412	17.662	2402.9690	2420.6314	---	---
11G	Ant1	2437	17.502	2428.2088	2445.7113	---	---
11G	Ant1	2462	16.823	2453.4885	2470.3117	---	---
11N20SISO	Ant1	2412	18.022	2402.9291	2420.9510	---	---
11N20SISO	Ant1	2437	18.062	2428.0090	2446.0709	---	---
11N20SISO	Ant1	2462	17.902	2453.0090	2470.9111	---	---
11N40SISO	Ant1	2422	36.763	2403.6983	2440.4615	---	---
11N40SISO	Ant1	2437	36.923	2418.7782	2455.7013	---	---
11N40SISO	Ant1	2452	36.284	2433.7782	2470.0619	---	---
11AX20SISO	Ant1	2412	19.141	2402.3696	2421.5105	---	---
11AX20SISO	Ant1	2437	19.061	2427.4895	2446.5504	---	---
11AX20SISO	Ant1	2462	19.061	2452.3696	2471.4306	---	---
11AX40SISO	Ant1	2422	38.042	2402.8991	2440.9411	---	---
11AX40SISO	Ant1	2437	37.802	2417.9790	2455.7812	---	---
11AX40SISO	Ant1	2452	37.802	2432.9790	2470.7812	---	---

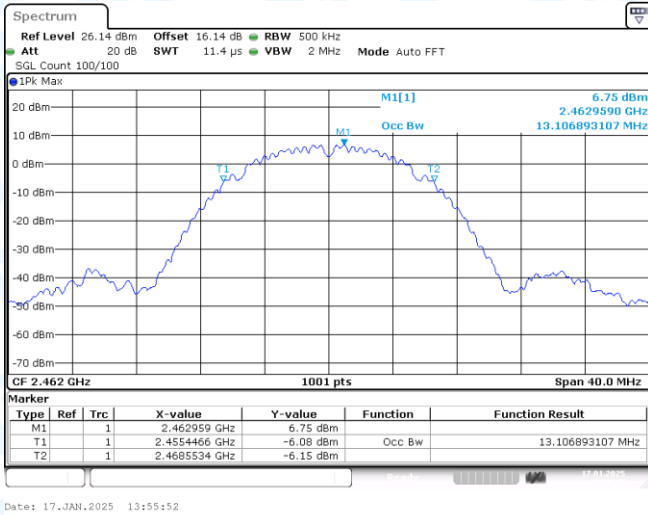
2.2 Test Graphs



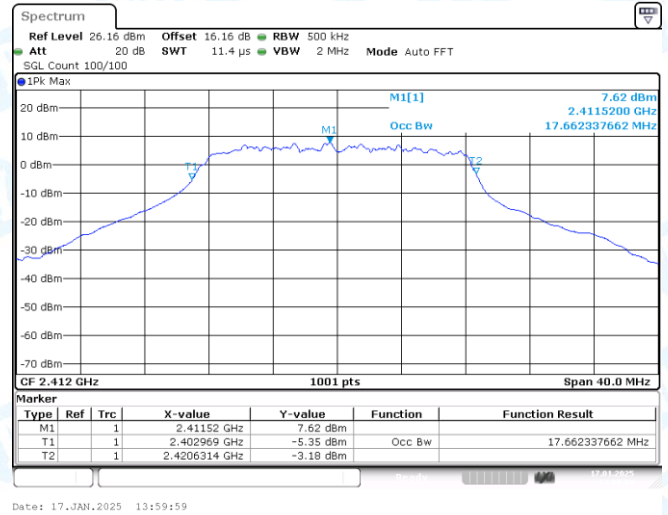
11B-Ant1-2412



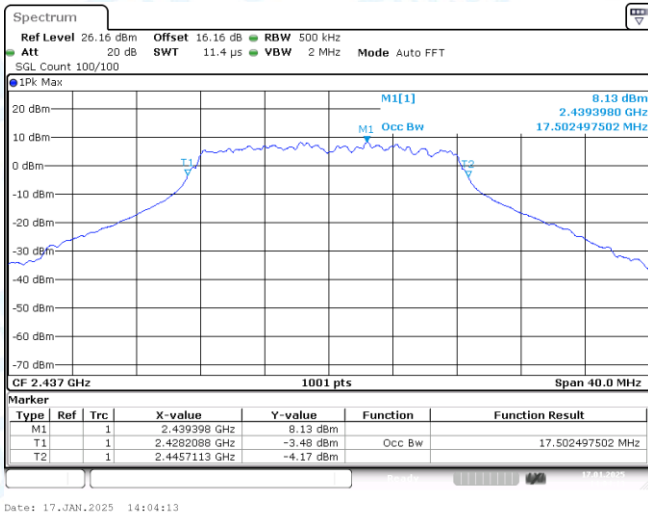
11B-Ant1-2437



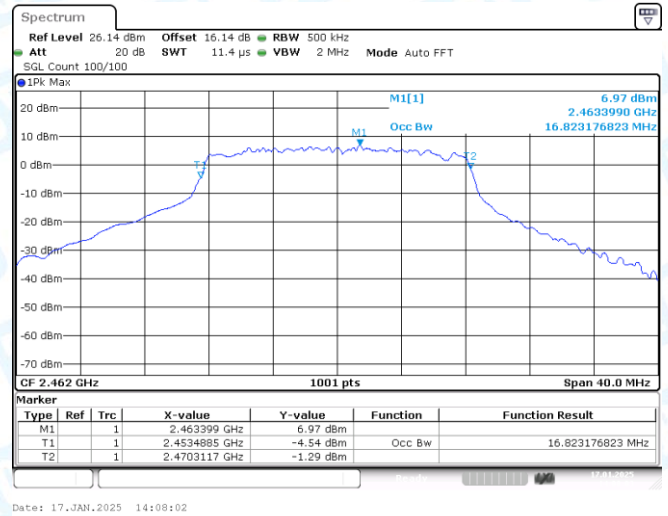
11B-Ant1-2462



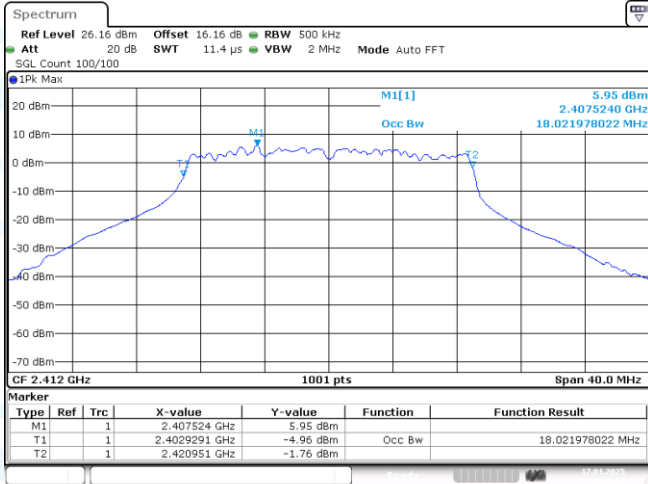
11G-Ant1-2412



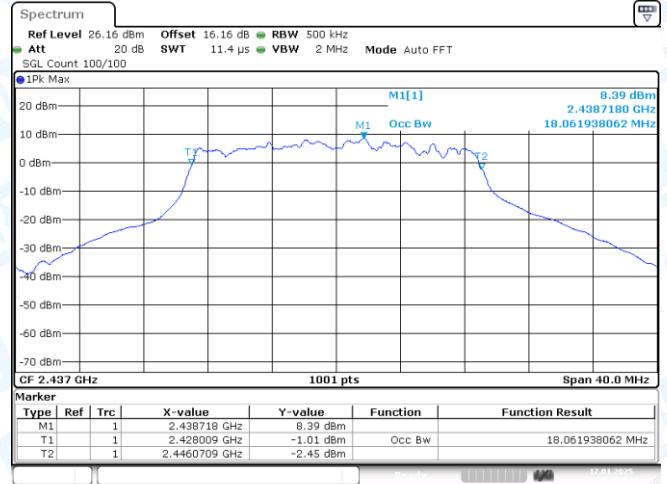
11G-Ant1-2437



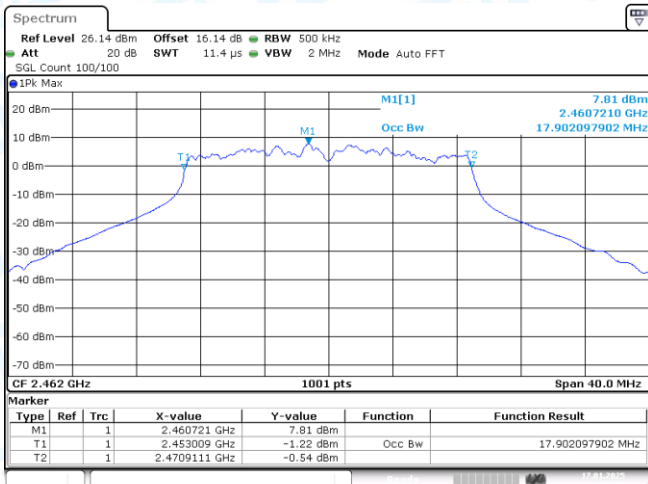
11G-Ant1-2462



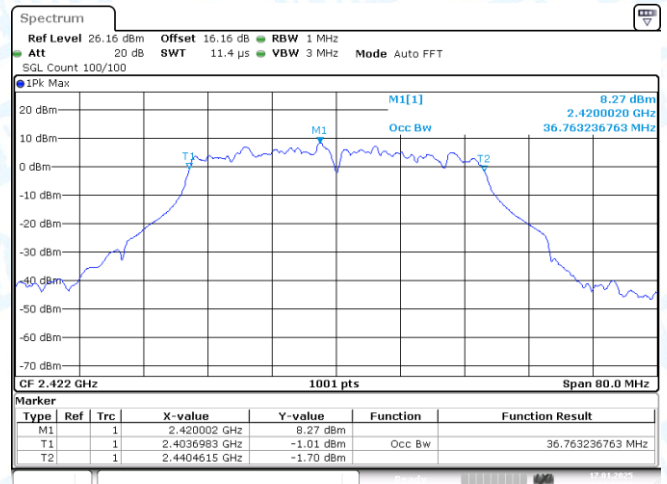
11N20SISO-Ant1-2412



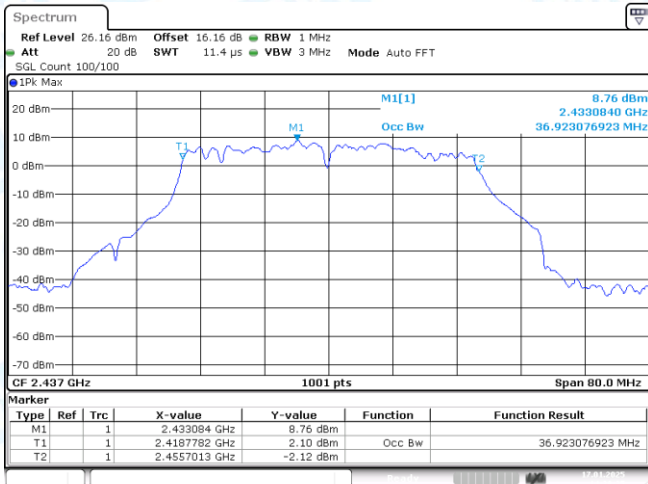
11N20SISO-Ant1-2437



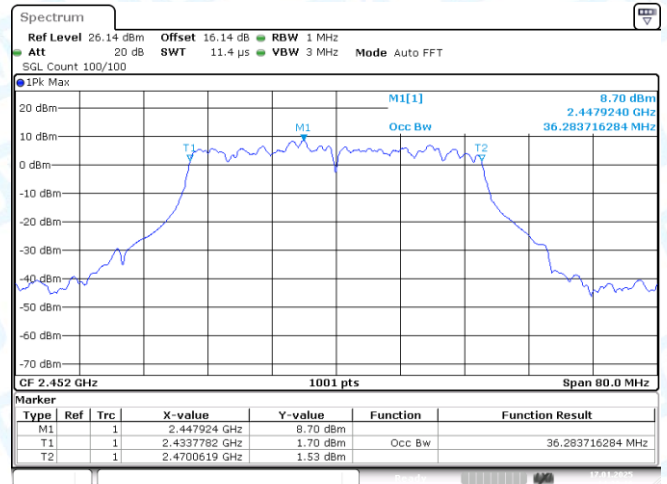
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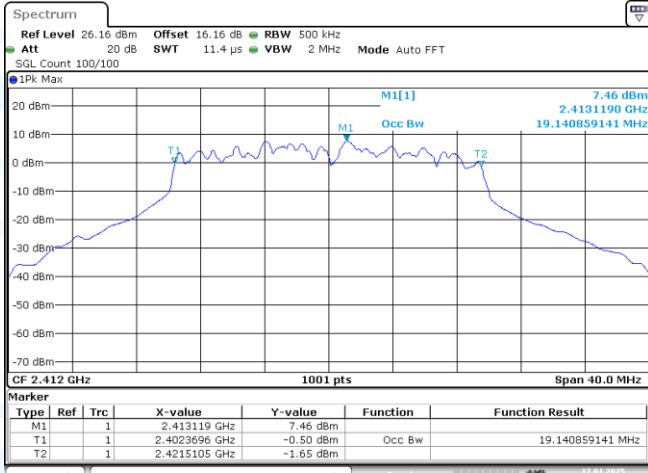
11N40SISO-Ant1-2422



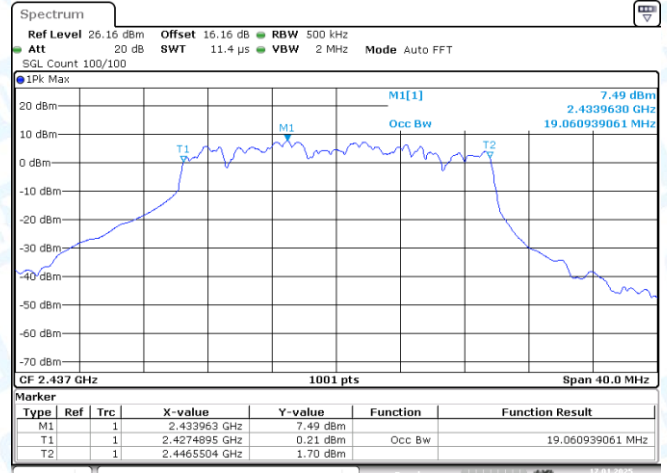
11N40SISO-Ant1-2437



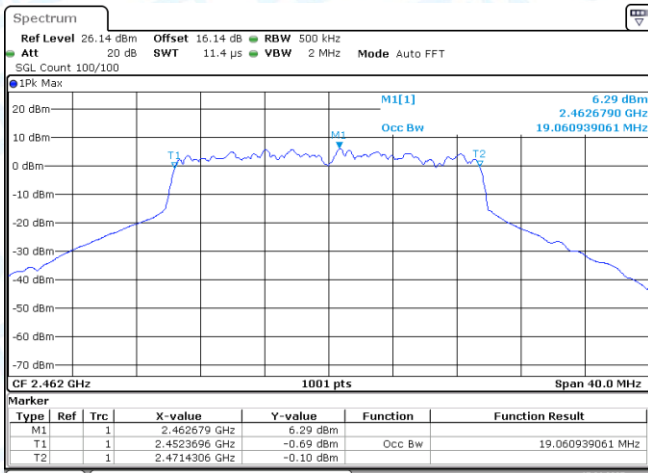
11N40SISO-Ant1-2452



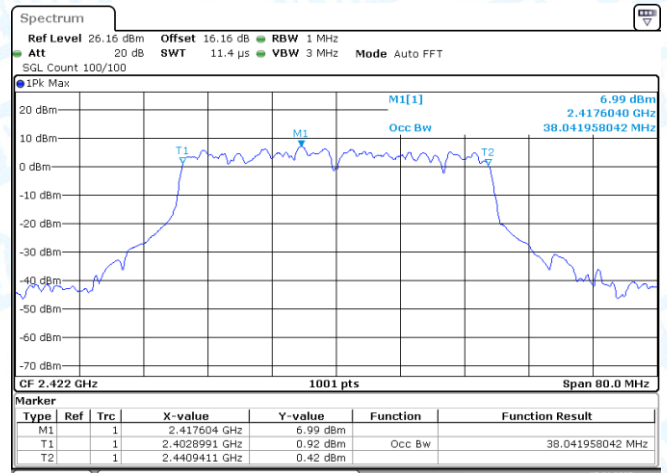
11AX20SISO-Ant1-2412



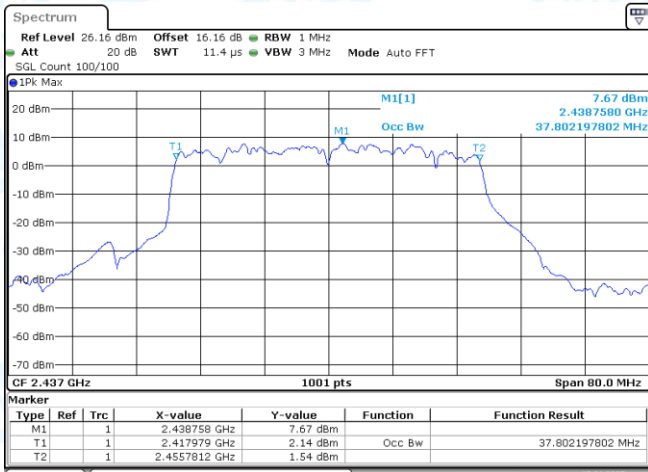
11AX20SISO-Ant1-2437



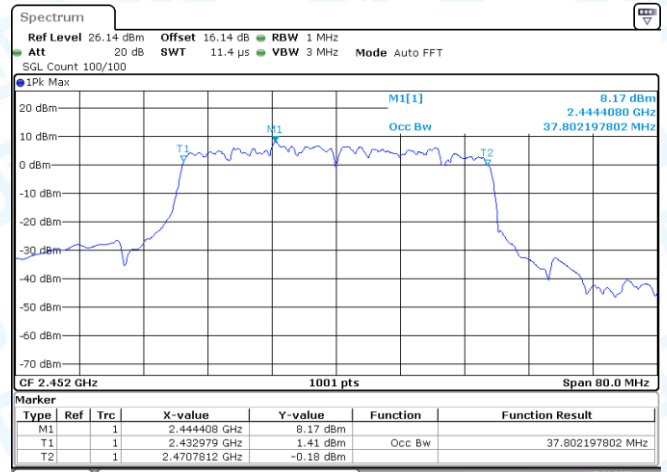
11AX20SISO-Ant1-2462



11AX40SISO-Ant1-2422



11AX40SISO-Ant1-2437



11AX40SISO-Ant1-2452

3: Maximum conducted output power

3.1 Test Result Average

Test Mode	Ant.	Frequency [MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	16.05	≤30.00	PASS
11B	Ant1	2437	15.21	≤30.00	PASS
11B	Ant1	2462	14.33	≤30.00	PASS
11G	Ant1	2412	14.58	≤30.00	PASS
11G	Ant1	2437	14.78	≤30.00	PASS
11G	Ant1	2462	14.31	≤30.00	PASS
11N20SISO	Ant1	2412	12.28	≤30.00	PASS
11N20SISO	Ant1	2437	14.40	≤30.00	PASS
11N20SISO	Ant1	2462	13.43	≤30.00	PASS
11N40SISO	Ant1	2422	12.90	≤30.00	PASS
11N40SISO	Ant1	2437	14.49	≤30.00	PASS
11N40SISO	Ant1	2452	14.02	≤30.00	PASS
11AX20SISO	Ant1	2412	12.16	≤30.00	PASS
11AX20SISO	Ant1	2437	12.15	≤30.00	PASS
11AX20SISO	Ant1	2462	12.90	≤30.00	PASS
11AX40SISO	Ant1	2422	10.99	≤30.00	PASS
11AX40SISO	Ant1	2437	14.40	≤30.00	PASS
11AX40SISO	Ant1	2452	14.00	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the graph.

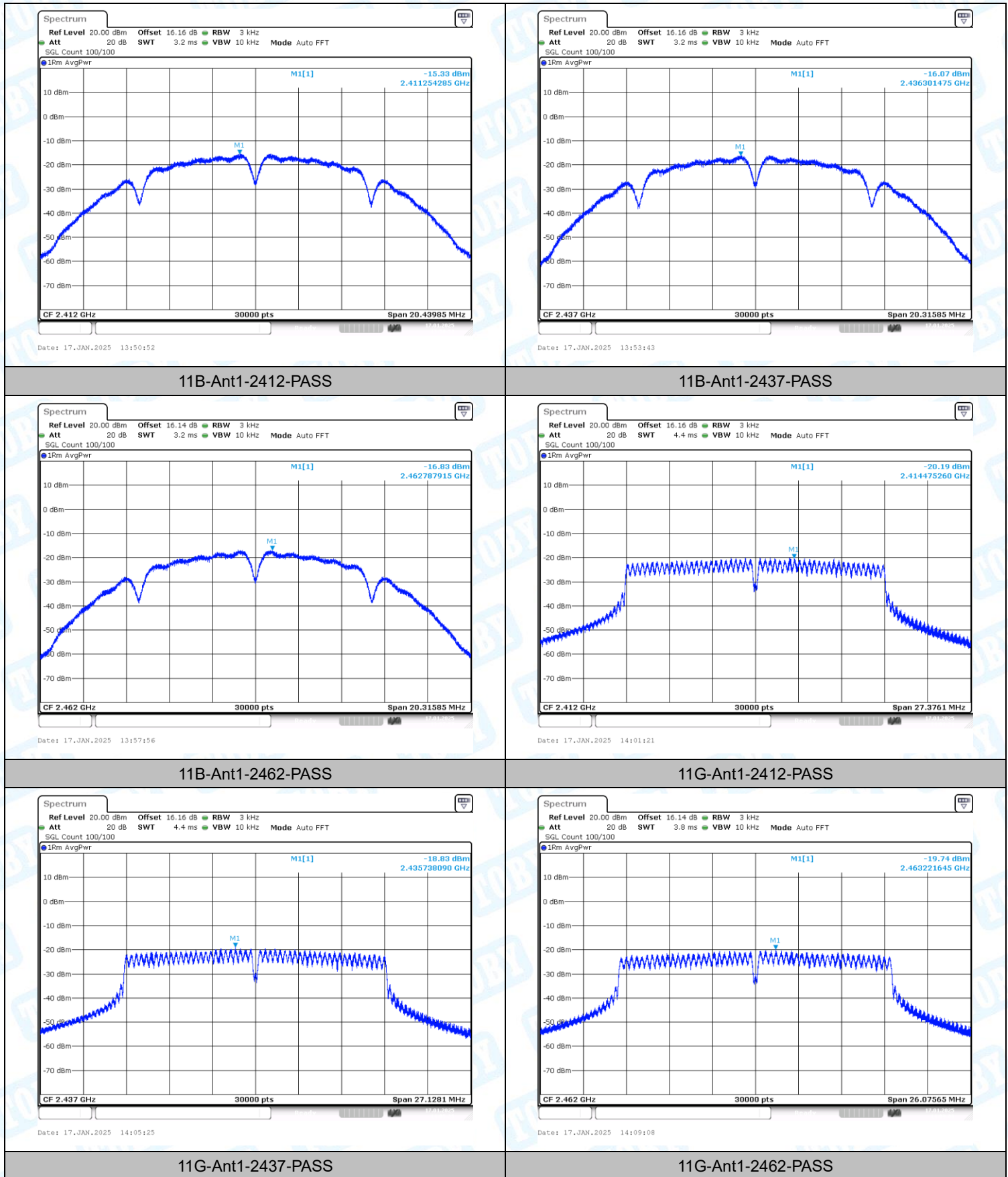
4: Maximum power spectral density

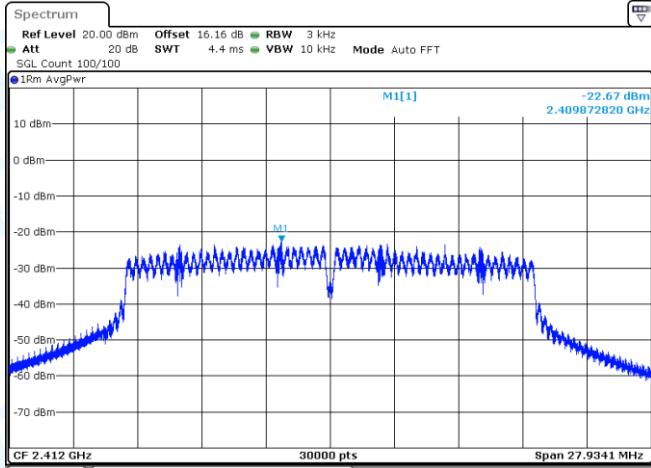
4.1 Test Result

TestMode	Ant.	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.08	≤8.00	PASS
11B	Ant1	2437	-15.81	≤8.00	PASS
11B	Ant1	2462	-16.56	≤8.00	PASS
11G	Ant1	2412	-18.79	≤8.00	PASS
11G	Ant1	2437	-17.46	≤8.00	PASS
11G	Ant1	2462	-18.34	≤8.00	PASS
11N20SISO	Ant1	2412	-19.66	≤8.00	PASS
11N20SISO	Ant1	2437	-17.64	≤8.00	PASS
11N20SISO	Ant1	2462	-17.36	≤8.00	PASS
11N40SISO	Ant1	2422	-20.98	≤8.00	PASS
11N40SISO	Ant1	2437	-19.05	≤8.00	PASS
11N40SISO	Ant1	2452	-20.08	≤8.00	PASS
11AX20SISO	Ant1	2412	-19.60	≤8.00	PASS
11AX20SISO	Ant1	2437	-17.45	≤8.00	PASS
11AX20SISO	Ant1	2462	-16.76	≤8.00	PASS
11AX40SISO	Ant1	2422	-21.78	≤8.00	PASS
11AX40SISO	Ant1	2437	-18.66	≤8.00	PASS
11AX40SISO	Ant1	2452	-18.60	≤8.00	PASS

Note: The Duty Cycle Factor is compensated in the graph.

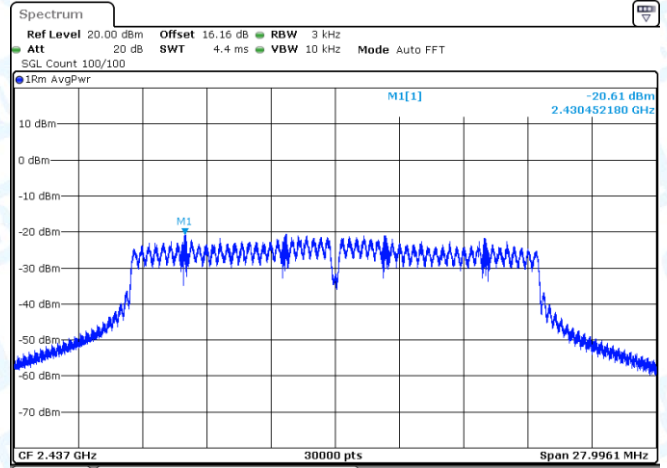
4.2 Test Graphs





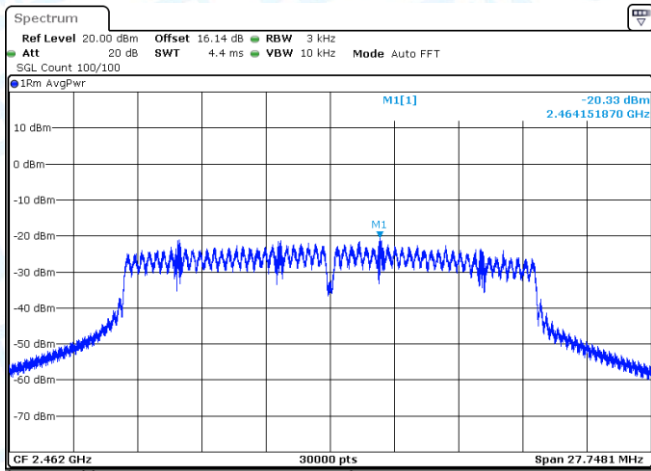
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11N20SISO-Ant1-2412-PASS



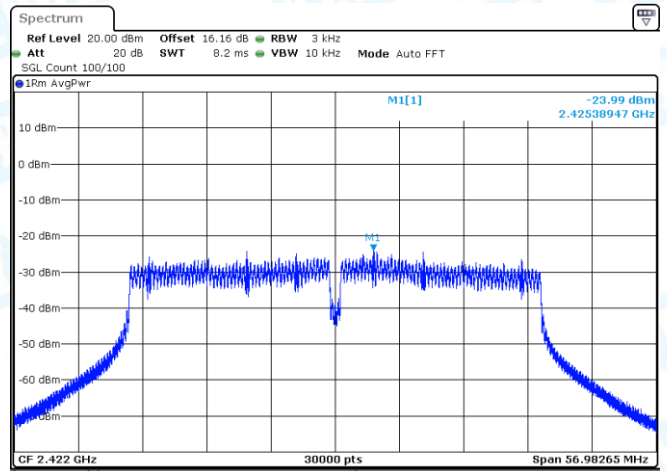
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11N20SISO-Ant1-2437-PASS



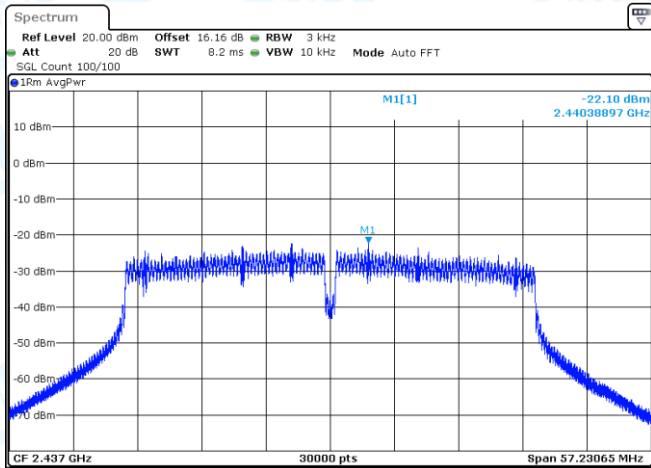
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11N20SISO-Ant1-2462-PASS



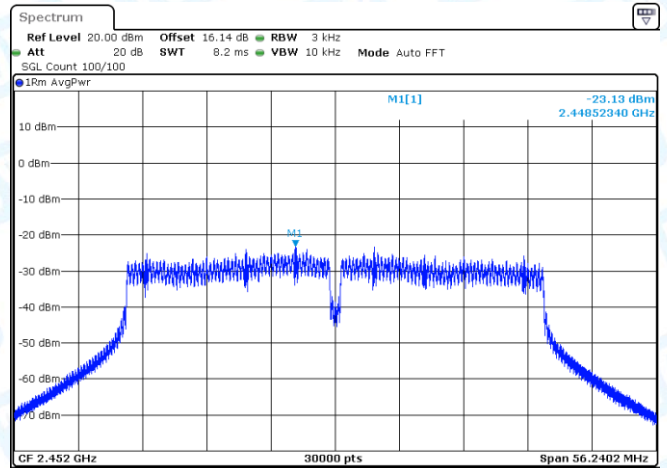
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11N40SISO-Ant1-2422-PASS



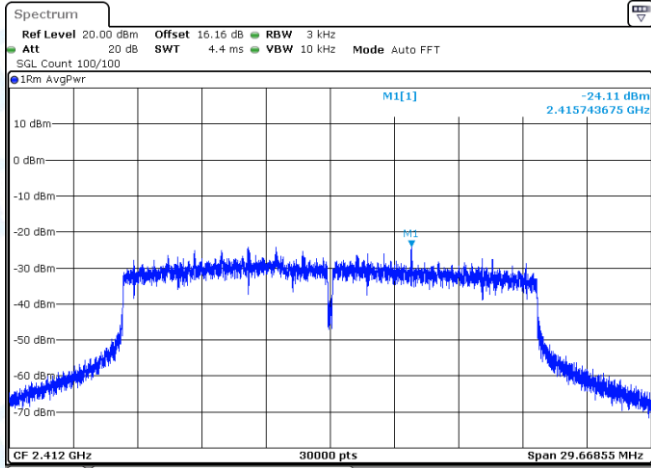
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11N40SISO-Ant1-2437-PASS



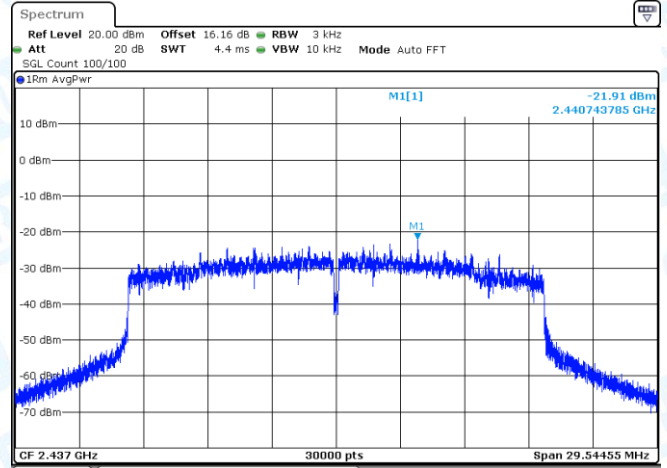
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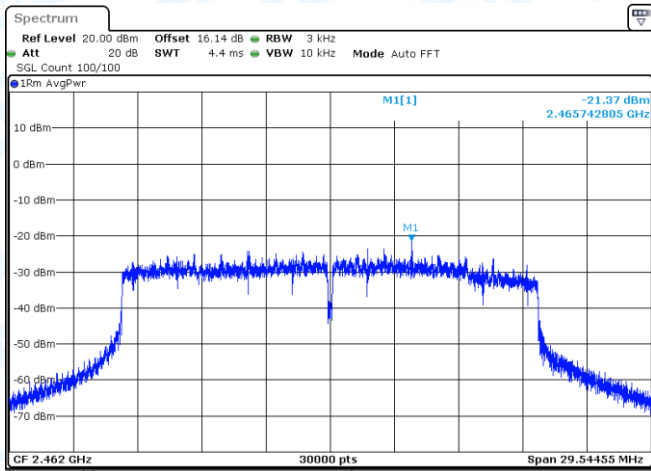
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11AX20SISO-Ant1-2412-PASS



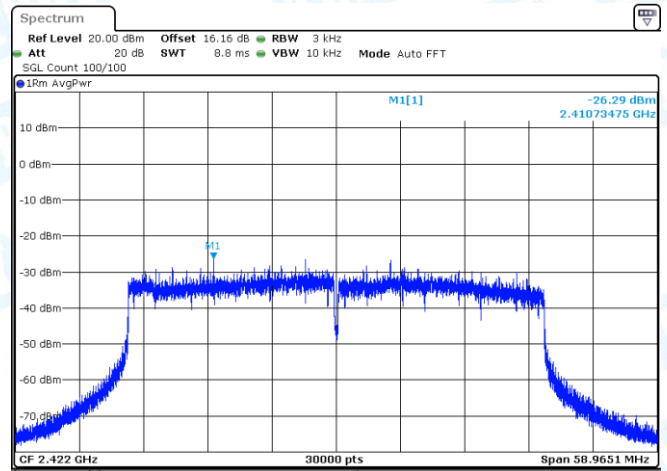
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11AX20SISO-Ant1-2437-PASS



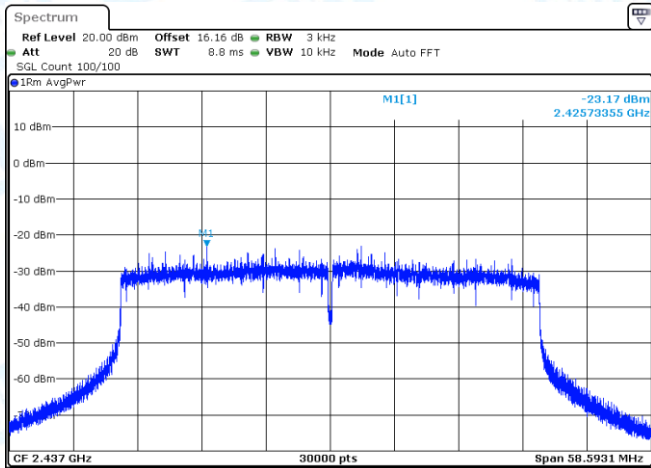
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11AX20SISO-Ant1-2462-PASS



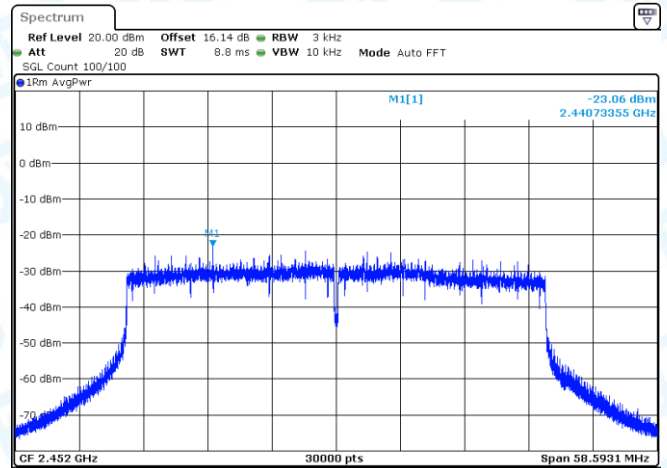
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11AX40SISO-Ant1-2422-PASS



Date: 17.JAN.2025 15:00:42

11AX40SISO-Ant1-2437-PASS



Date: 17.JAN.2025 15:03:28

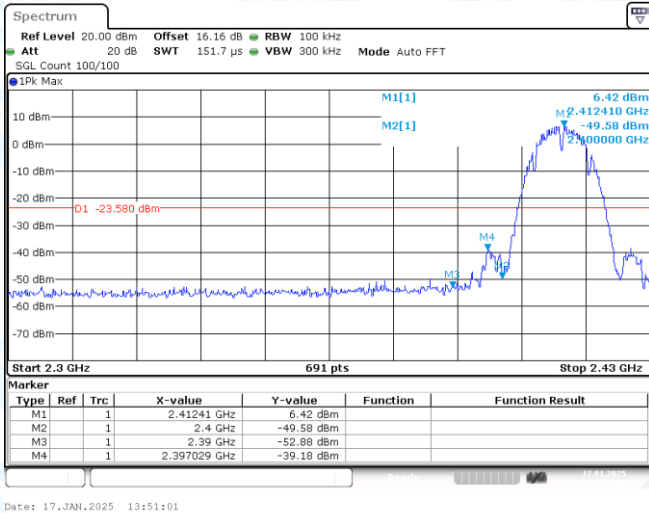
11AX40SISO-Ant1-2452-PASS

5: Band edge measurements

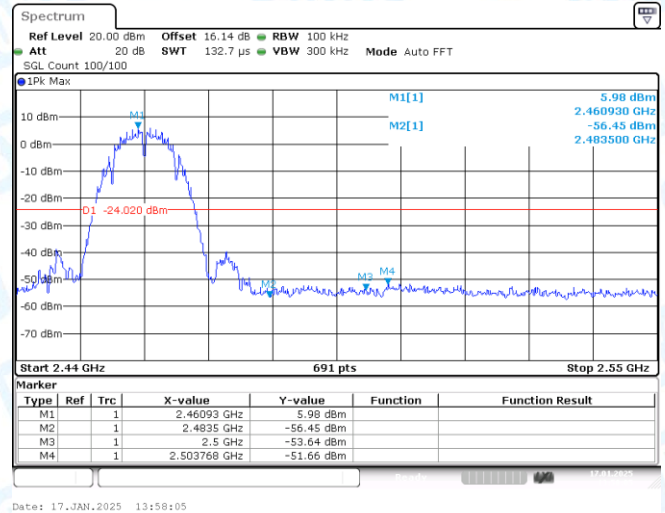
5.1 Test Result

TestMode	Ant.	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.42	-39.18	≤-23.58	PASS
11B	Ant1	High	2462	5.98	-51.66	≤-24.02	PASS
11G	Ant1	Low	2412	2.92	-27.88	≤-27.08	PASS
11G	Ant1	High	2462	0.45	-47.37	≤-29.55	PASS
11N20SISO	Ant1	Low	2412	2.23	-28.14	≤-27.77	PASS
11N20SISO	Ant1	High	2462	3.29	-47.78	≤-26.71	PASS
11N40SISO	Ant1	Low	2422	-1.43	-33.96	≤-31.43	PASS
11N40SISO	Ant1	High	2452	0.68	-44.46	≤-29.32	PASS
11AX20SISO	Ant1	Low	2412	2.83	-32.52	≤-27.17	PASS
11AX20SISO	Ant1	High	2462	1.24	-50.79	≤-28.76	PASS
11AX40SISO	Ant1	Low	2422	0.54	-35.83	≤-29.46	PASS
11AX40SISO	Ant1	High	2452	-1.85	-47.07	≤-31.85	PASS

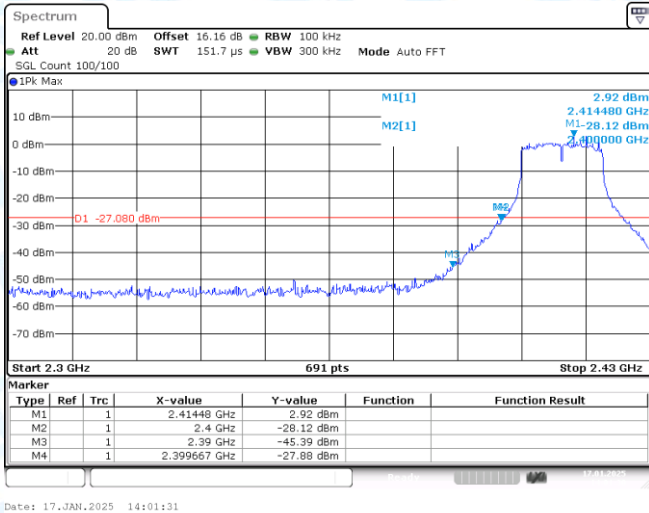
5.2 Test Graphs



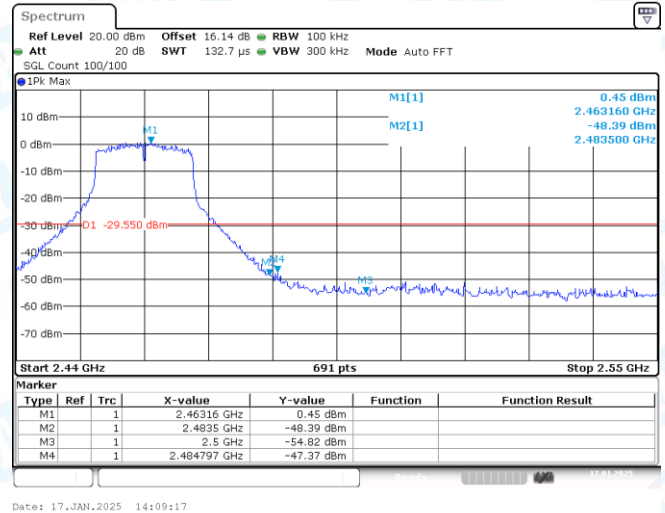
11B-Ant1-2412-PASS



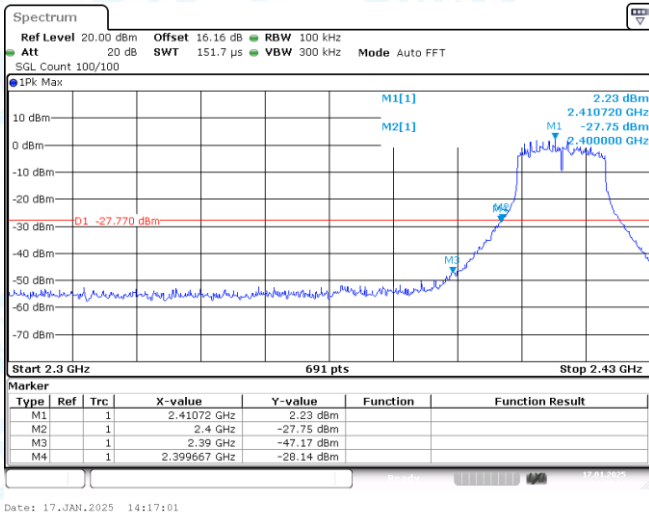
11B-Ant1-2462-PASS



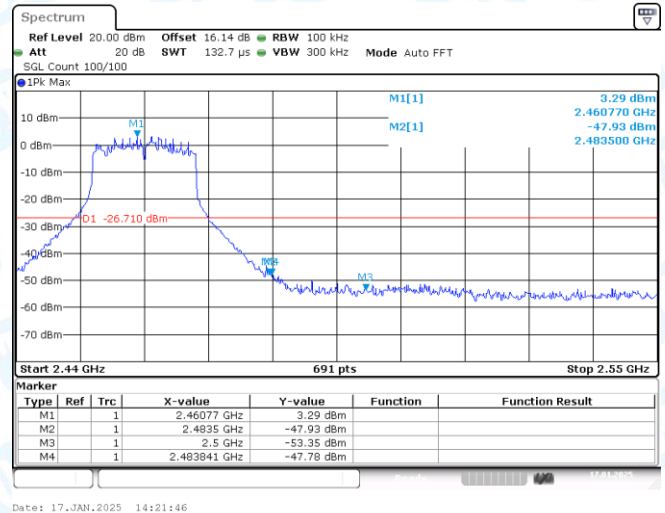
11G-Ant1-2412-PASS



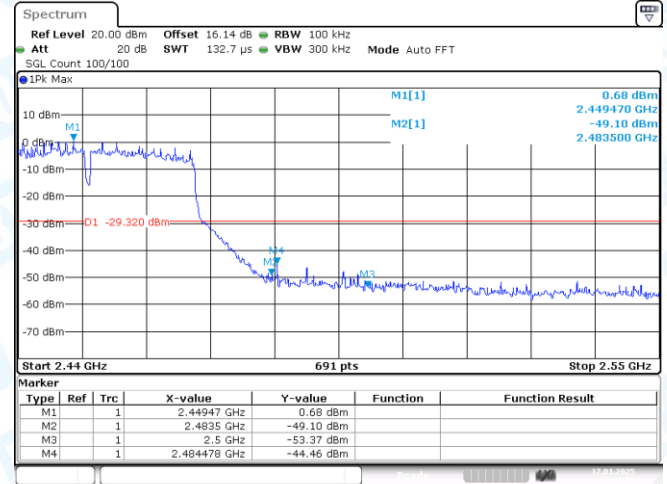
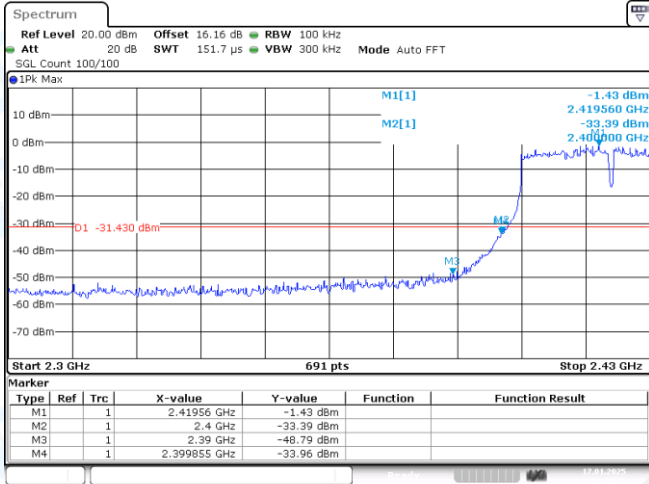
11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS

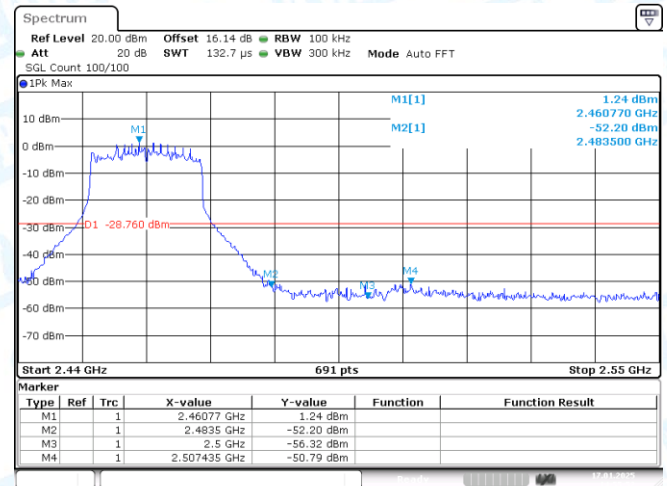
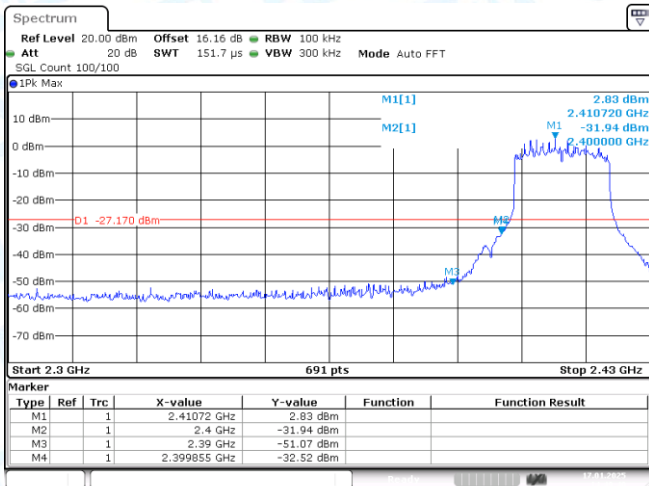


11N20SISO-Ant1-2462-PASS



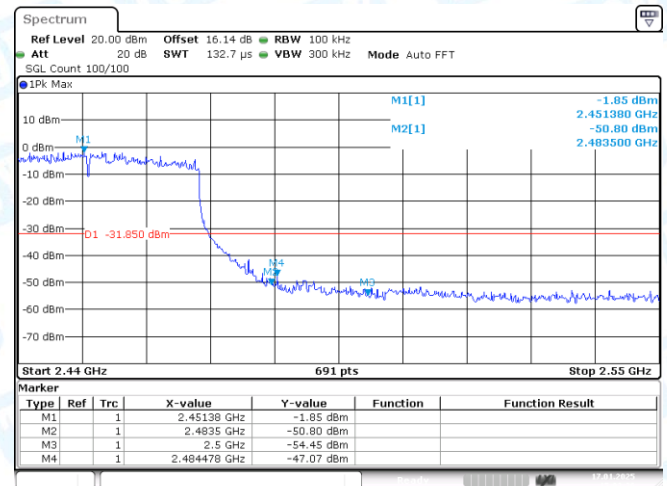
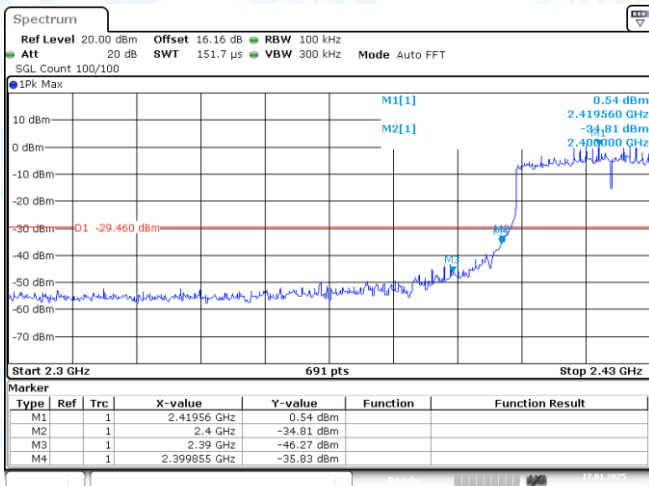
11N40SISO-Ant1-2422-PASS

11N40SISO-Ant1-2452-PASS



11AX20SISO-Ant1-2412-PASS

11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS

11AX40SISO-Ant1-2452-PASS

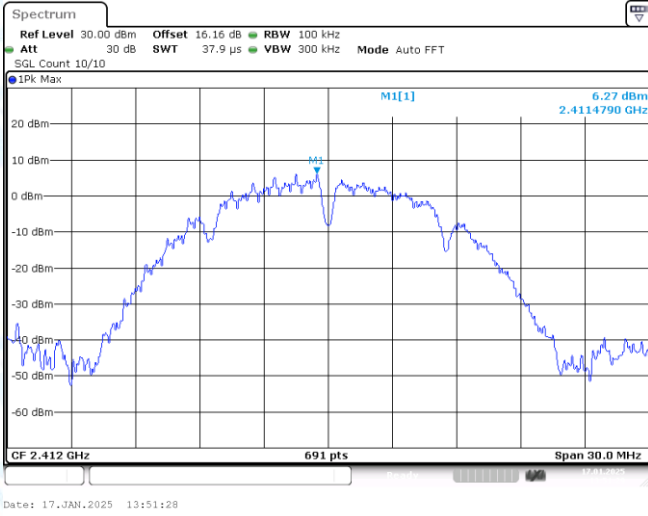
6: Conducted Spurious Emission

6.1 Test Result

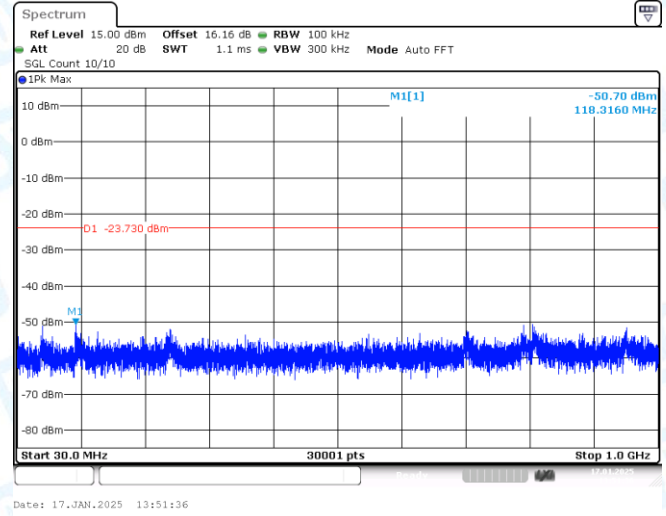
TestMode	Ant.	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	6.27	6.27	---	PASS
11B	Ant1	2412	30~1000	6.27	-50.7	≤-23.73	PASS
11B	Ant1	2412	1000~26500	6.27	-34.84	≤-23.73	PASS
11B	Ant1	2437	0~Reference	4.18	4.18	---	PASS
11B	Ant1	2437	30~1000	4.18	-49.99	≤-25.82	PASS
11B	Ant1	2437	1000~26500	4.18	-35.35	≤-25.82	PASS
11B	Ant1	2462	0~Reference	5.15	5.15	---	PASS
11B	Ant1	2462	30~1000	5.15	-50.44	≤-24.85	PASS
11B	Ant1	2462	1000~26500	5.15	-34.01	≤-24.85	PASS
11G	Ant1	2412	0~Reference	-0.13	-0.13	---	PASS
11G	Ant1	2412	30~1000	-0.13	-51.72	≤-30.13	PASS
11G	Ant1	2412	1000~26500	-0.13	-44.18	≤-30.13	PASS
11G	Ant1	2437	0~Reference	0.88	0.88	---	PASS
11G	Ant1	2437	30~1000	0.88	-50.43	≤-29.12	PASS
11G	Ant1	2437	1000~26500	0.88	-41.96	≤-29.12	PASS
11G	Ant1	2462	0~Reference	-0.39	-0.39	---	PASS
11G	Ant1	2462	30~1000	-0.39	-50.57	≤-30.39	PASS
11G	Ant1	2462	1000~26500	-0.39	-41.03	≤-30.39	PASS
11N20SISO	Ant1	2412	0~Reference	-0.53	-0.53	---	PASS
11N20SISO	Ant1	2412	30~1000	-0.53	-50.74	≤-30.53	PASS
11N20SISO	Ant1	2412	1000~26500	-0.53	-44.96	≤-30.53	PASS
11N20SISO	Ant1	2437	0~Reference	1.52	1.52	---	PASS
11N20SISO	Ant1	2437	30~1000	1.52	-50.45	≤-28.48	PASS
11N20SISO	Ant1	2437	1000~26500	1.52	-42.6	≤-28.48	PASS
11N20SISO	Ant1	2462	0~Reference	0.62	0.62	---	PASS
11N20SISO	Ant1	2462	30~1000	0.62	-50.85	≤-29.38	PASS
11N20SISO	Ant1	2462	1000~26500	0.62	-41.84	≤-29.38	PASS
11N40SISO	Ant1	2422	0~Reference	-2.85	-2.85	---	PASS
11N40SISO	Ant1	2422	30~1000	-2.85	-50.4	≤-32.85	PASS
11N40SISO	Ant1	2422	1000~26500	-2.85	-44.8	≤-32.85	PASS
11N40SISO	Ant1	2437	0~Reference	-1.50	-1.50	---	PASS
11N40SISO	Ant1	2437	30~1000	-1.50	-51.55	≤-31.5	PASS
11N40SISO	Ant1	2437	1000~26500	-1.50	-44.62	≤-31.5	PASS
11N40SISO	Ant1	2452	0~Reference	-2.38	-2.38	---	PASS
11N40SISO	Ant1	2452	30~1000	-2.38	-48.79	≤-32.38	PASS
11N40SISO	Ant1	2452	1000~26500	-2.38	-44.07	≤-32.38	PASS
11AX20SISO	Ant1	2412	0~Reference	0.33	0.33	---	PASS
11AX20SISO	Ant1	2412	30~1000	0.33	-51.3	≤-29.67	PASS
11AX20SISO	Ant1	2412	1000~26500	0.33	-44.77	≤-29.67	PASS
11AX20SISO	Ant1	2437	0~Reference	-0.81	-0.81	---	PASS

11AX20SISO	Ant1	2437	30~1000	-0.81	-50.62	≤-30.81	PASS
11AX20SISO	Ant1	2437	1000~26500	-0.81	-39.24	≤-30.81	PASS
11AX20SISO	Ant1	2462	0~Reference	-2.53	-2.53	---	PASS
11AX20SISO	Ant1	2462	30~1000	-2.53	-50.58	≤-32.53	PASS
11AX20SISO	Ant1	2462	1000~26500	-2.53	-45.2	≤-32.53	PASS
11AX40SISO	Ant1	2422	0~Reference	-4.15	-4.15	---	PASS
11AX40SISO	Ant1	2422	30~1000	-4.15	-51.23	≤-34.15	PASS
11AX40SISO	Ant1	2422	1000~26500	-4.15	-45.12	≤-34.15	PASS
11AX40SISO	Ant1	2437	0~Reference	-2.24	-2.24	---	PASS
11AX40SISO	Ant1	2437	30~1000	-2.24	-50.32	≤-32.24	PASS
11AX40SISO	Ant1	2437	1000~26500	-2.24	-43.69	≤-32.24	PASS
11AX40SISO	Ant1	2452	0~Reference	-2.85	-2.85	---	PASS
11AX40SISO	Ant1	2452	30~1000	-2.85	-51.28	≤-32.85	PASS
11AX40SISO	Ant1	2452	1000~26500	-2.85	-44.33	≤-32.85	PASS

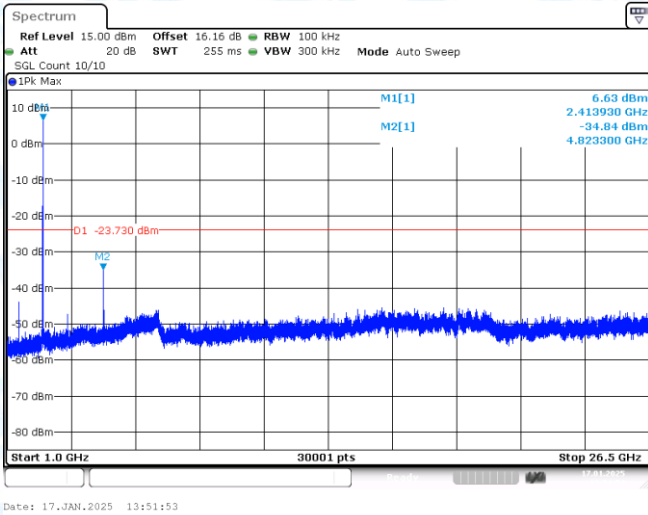
6.2 Test Graphs



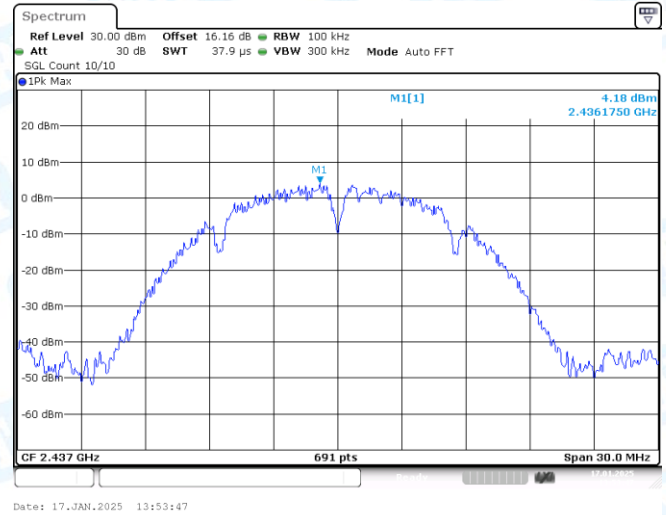
11B-Ant1-2412-0~Reference-PASS



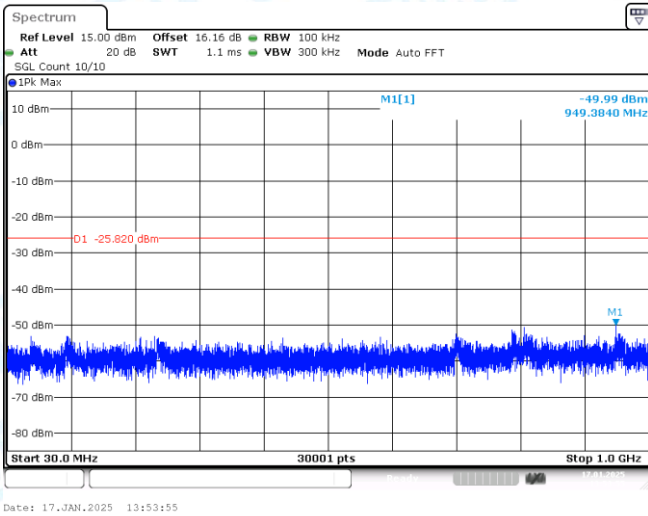
11B-Ant1-2412-30~1000-PASS



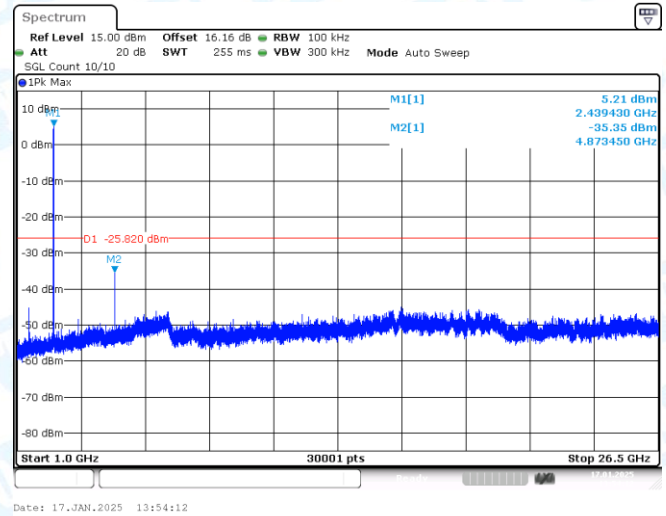
11B-Ant1-2412-1000~26500-PASS



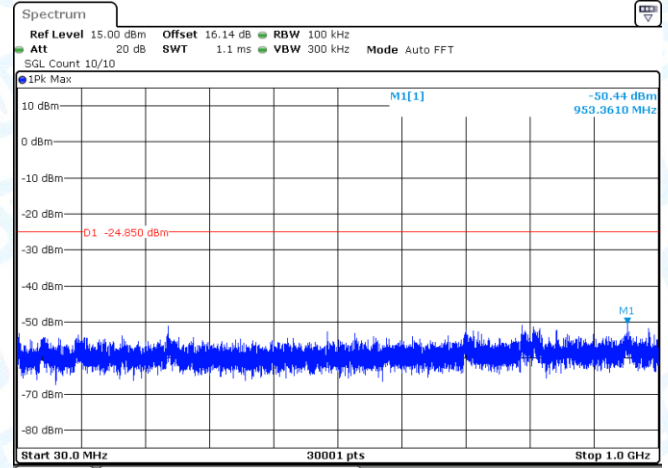
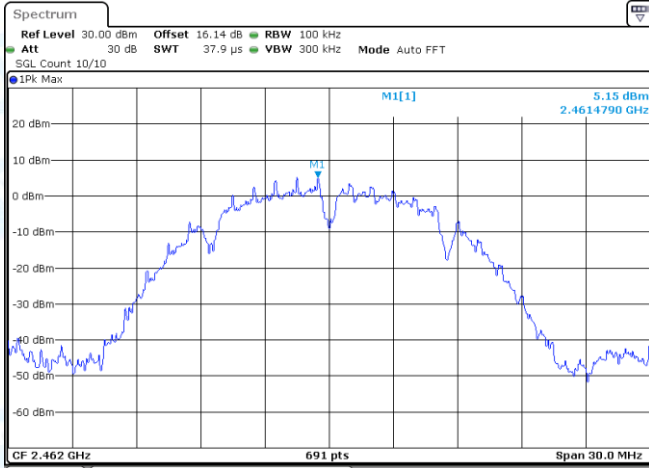
11B-Ant1-2437-0~Reference-PASS



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

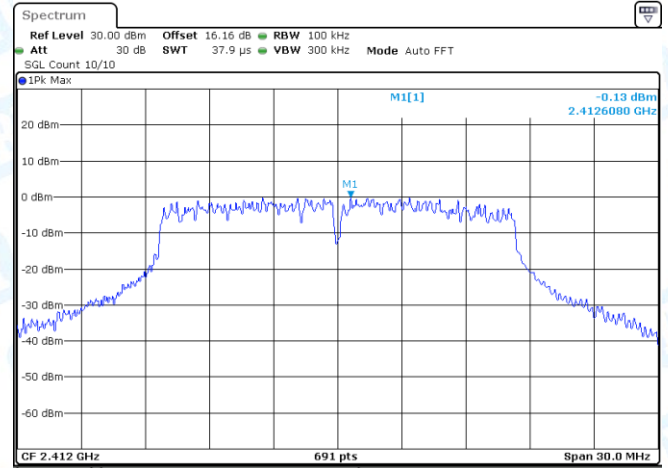
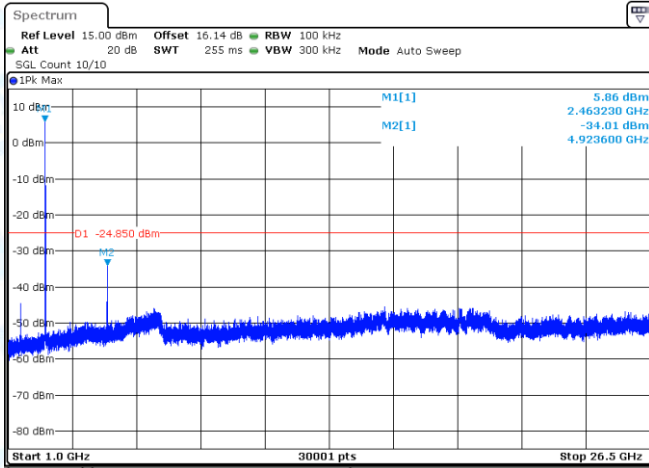


11B-Ant1-2437-1000~26500-PASS



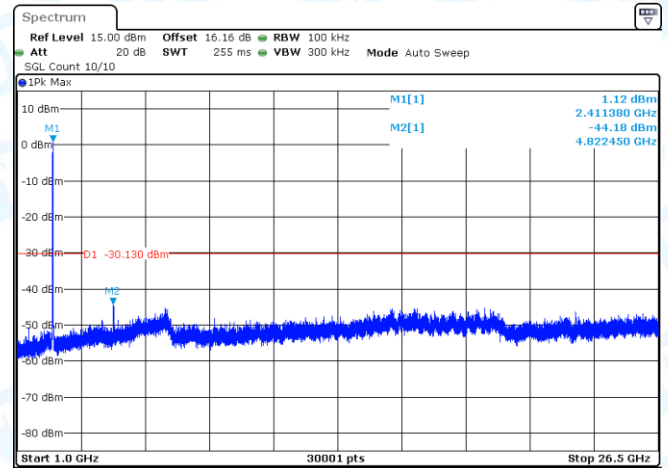
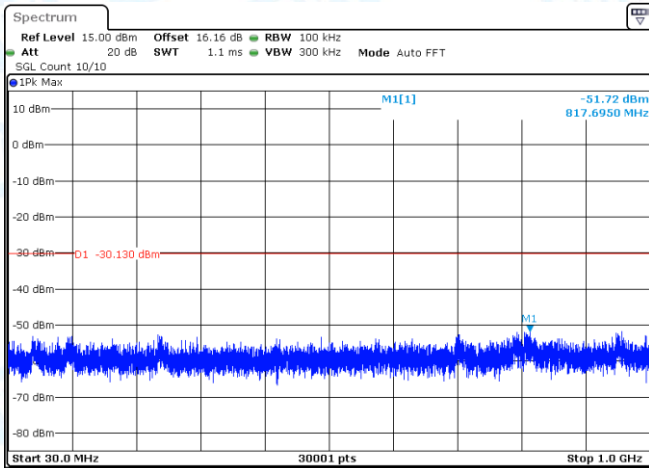
11B-Ant1-2462-0~Reference-PASS

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



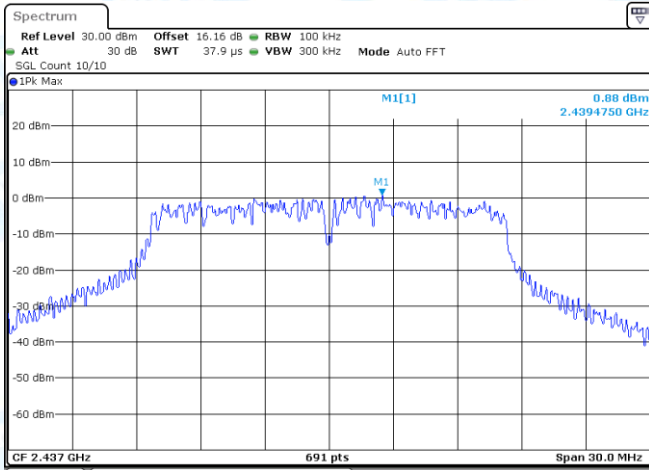
11B-Ant1-2462-1000~26500-PASS

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

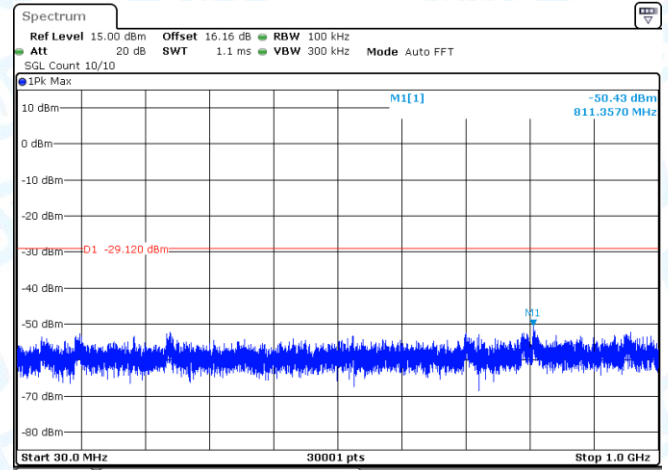


11G-Ant1-2412-30~1000-PASS

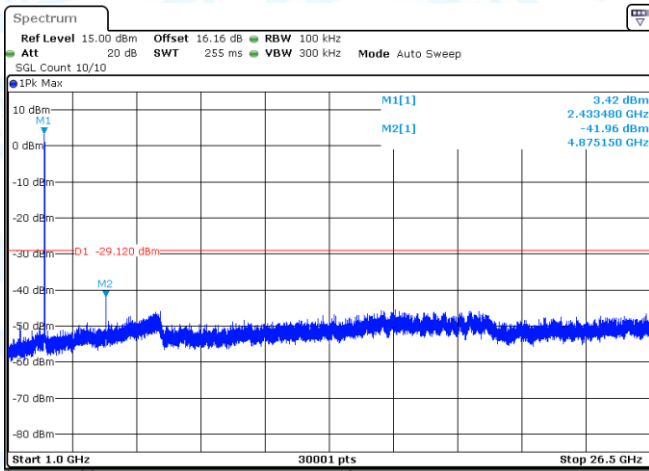
11G-Ant1-2412-1000~26500-PASS



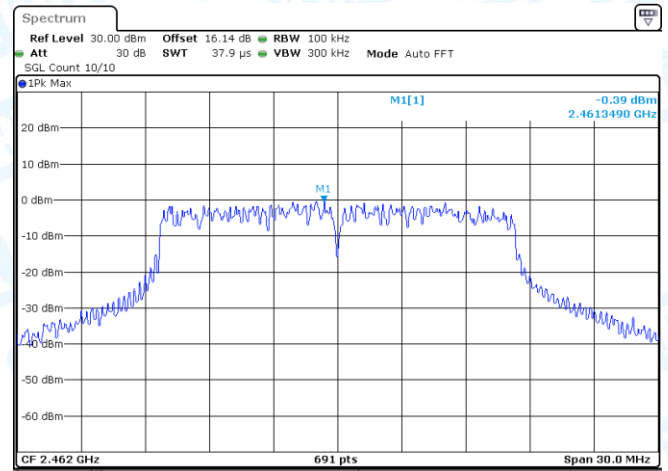
11G-Ant1-2437-0~Reference-PASS



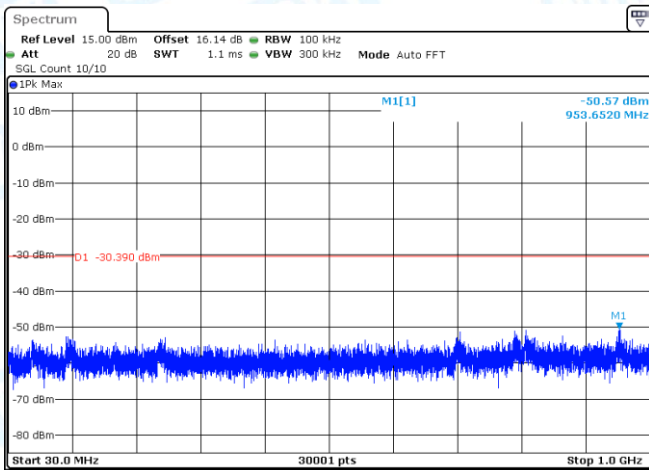
11G-Ant1-2437-30~1000-PASS



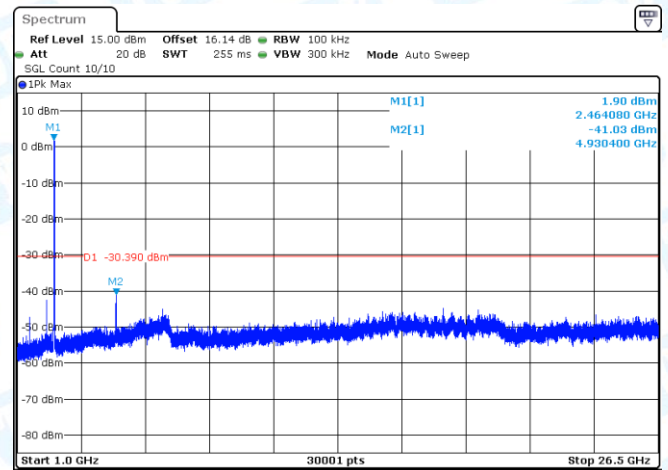
11G-Ant1-2437-1000~26500-PASS



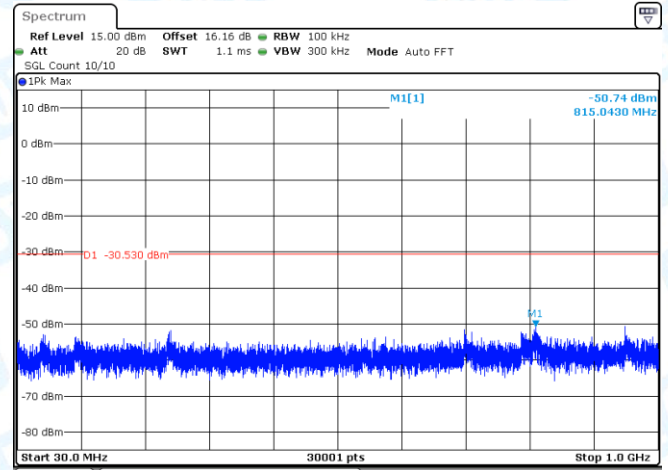
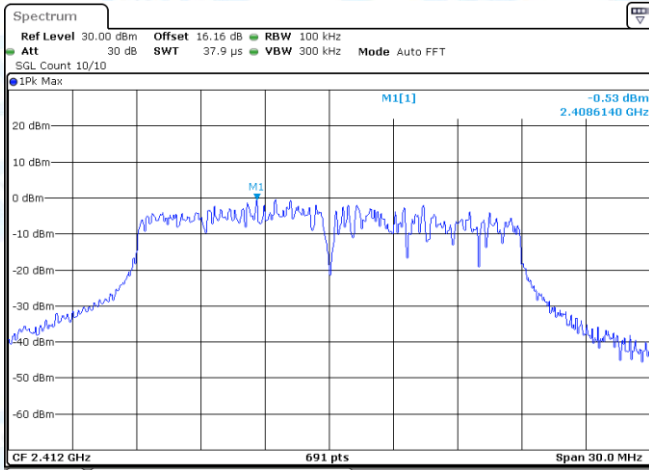
11G-Ant1-2462-0~Reference-PASS



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

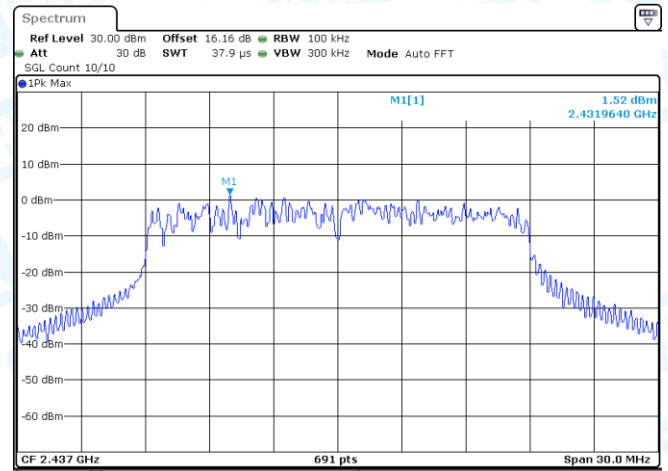
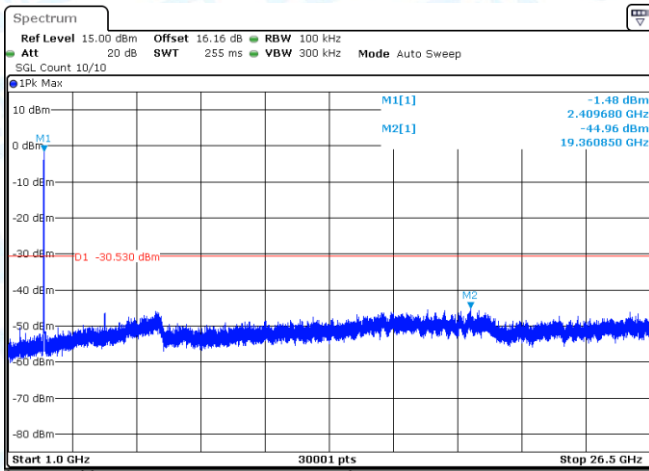


11G-Ant1-2462-1000~26500-PASS



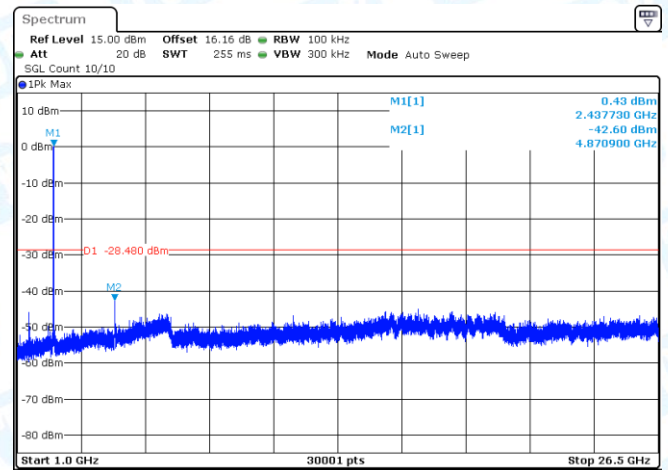
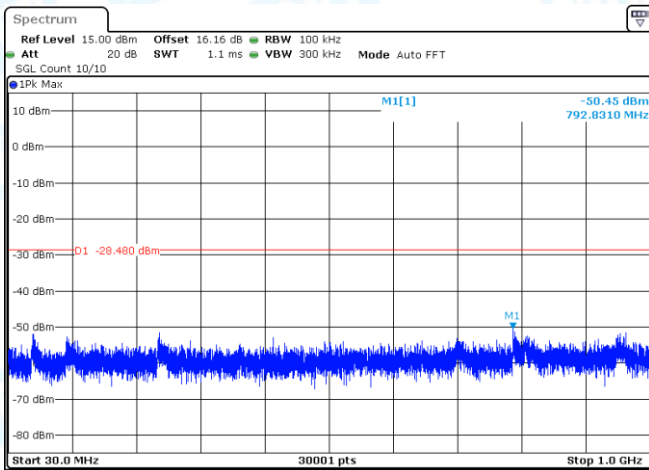
11N20SISO-Ant1-2412-0~Reference-PASS

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



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

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



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

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