

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

General Description of EUT	
EUT Name:	Digital Wireless Backup Camera System
Model:	RCVT070
Sample ID:	HC-C-202412-0085-01-01
Test Standard:	FCC Part 15.247
Environmental Conditions	
Ambient Temperature:	24.3℃
Ambient Humidity:	43%RH
Test Power Supply:	DC 10V
Test Engineer:	ZKn.zhou
Note: For a more detailed features description, please refer to the report TBR-C-202412-0085-1	

Contents

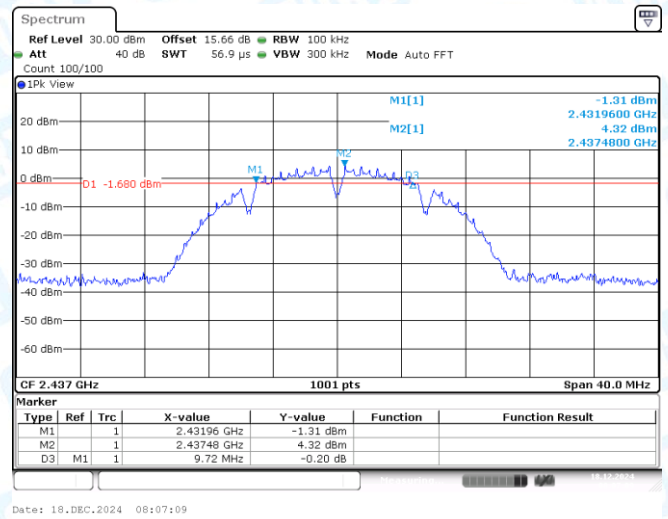
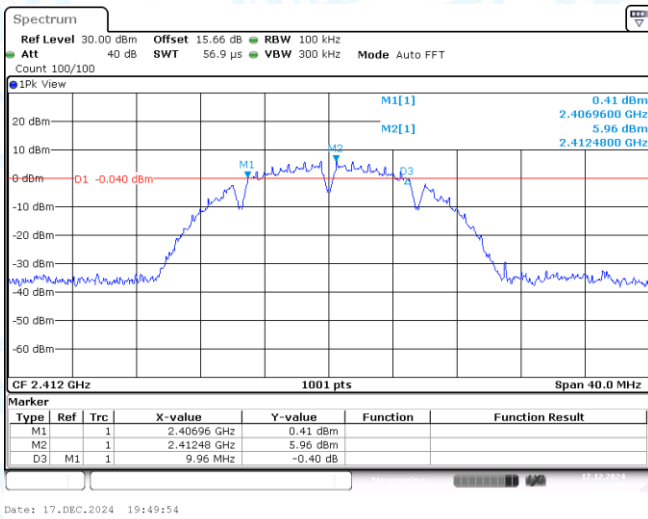
1: DTS Bandwidth.....	3
1.1 Test Result	3
1.2 Test Graphs	4
2: Occupied Channel Bandwidth	6
2.1 Test Result	6
2.2 Test Graphs	7
3: Maximum conducted output power.....	9
3.1 Test Result	9
4: Maximum power spectral density	10
4.1 Test Result	10
4.2 Test Graphs	11
5: Band edge measurements	13
5.1 Test Result	13
5.2 Test Graphs	14
6: Conducted Spurious Emission.....	16
6.1 Test Result	16
6.2 Test Graphs	17
7: Duty Cycle	21
7.1 Test Result	21
7.2 Test Graphs	22
8: Emissions in Restricted Bands.....	24
8.1 Test Result	24
8.2 Test Graphs	26

1: DTS Bandwidth

1.1 Test Result

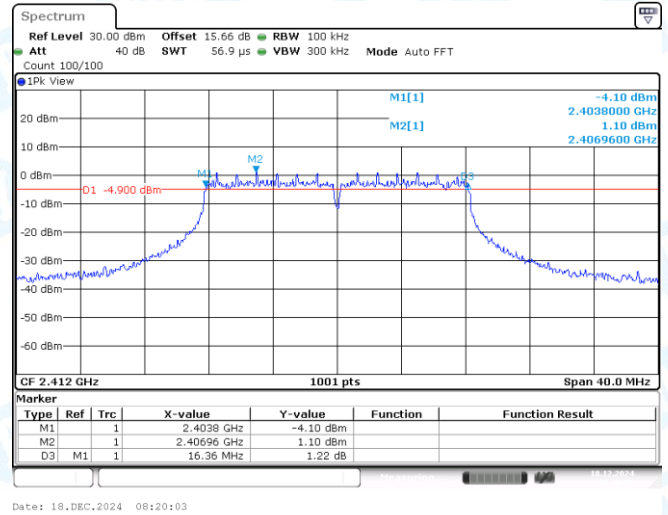
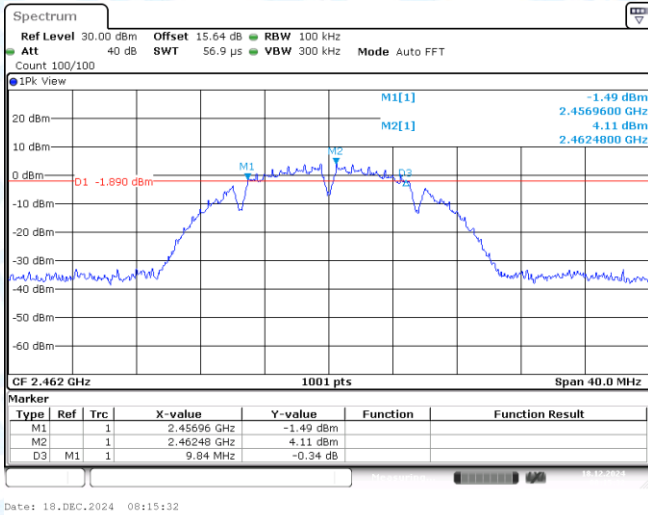
TestMode	Ant.	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.00	2406.96	2416.96	0.5	PASS
11B	Ant1	2437	10.04	2431.96	2442.00	0.5	PASS
11B	Ant1	2462	10.04	2456.96	2467.00	0.5	PASS
11G	Ant1	2412	16.32	2403.84	2420.16	0.5	PASS
11G	Ant1	2437	16.36	2428.80	2445.16	0.5	PASS
11G	Ant1	2462	16.32	2453.84	2470.16	0.5	PASS
11N20SISO	Ant1	2412	17.60	2403.20	2420.80	0.5	PASS
11N20SISO	Ant1	2437	17.60	2428.20	2445.80	0.5	PASS
11N20SISO	Ant1	2462	17.60	2453.20	2470.80	0.5	PASS
11AX20SISO	Ant1	2412	19.04	2402.48	2421.52	0.5	PASS
11AX20SISO	Ant1	2437	19.04	2427.48	2446.52	0.5	PASS
11AX20SISO	Ant1	2462	18.96	2452.48	2471.44	0.5	PASS

1.2 Test Graphs



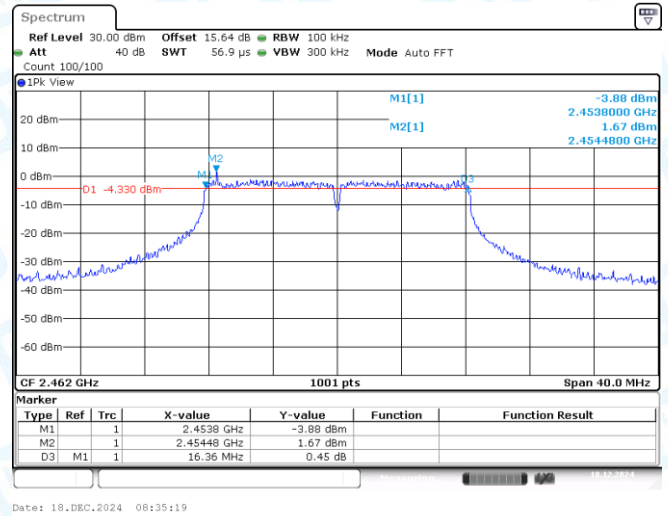
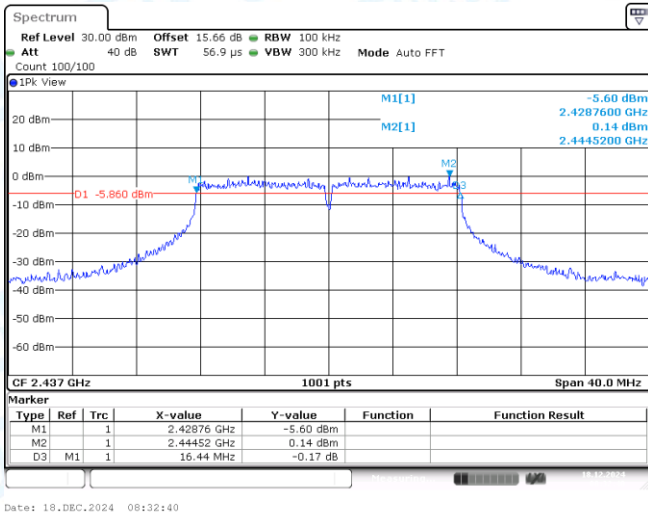
11B-Ant1-2412-PASS

11B-Ant1-2437-PASS



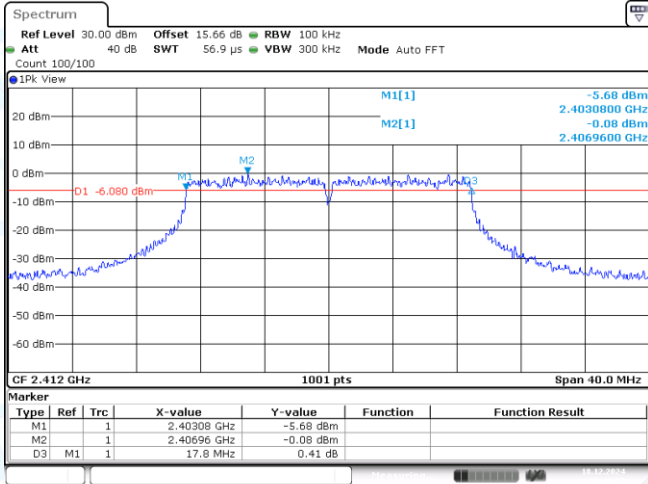
11B-Ant1-2462-PASS

11G-Ant1-2412-PASS

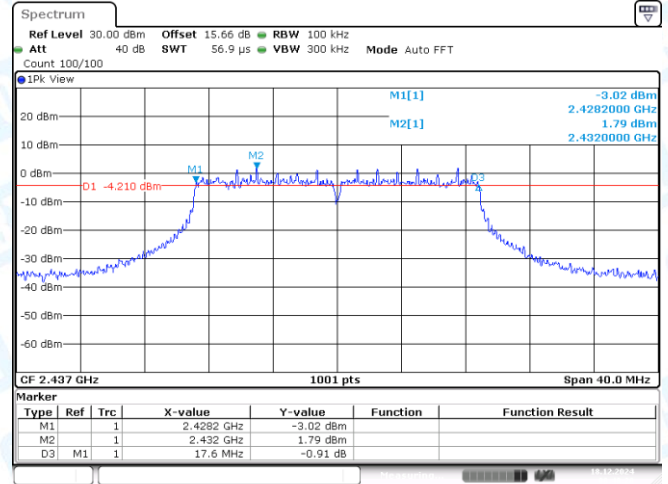


11G-Ant1-2437-PASS

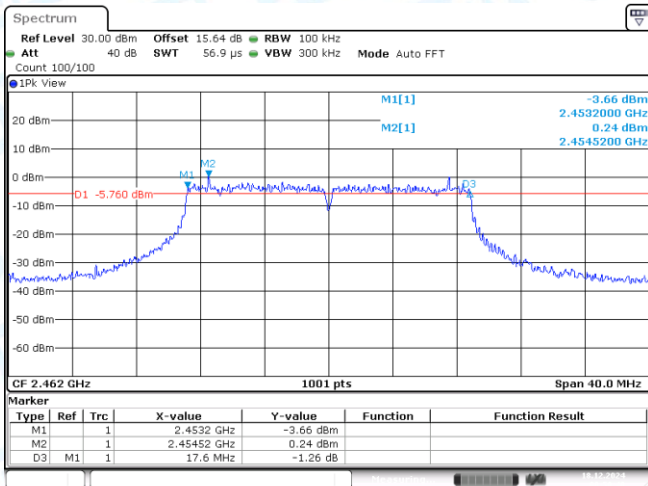
11G-Ant1-2462-PASS



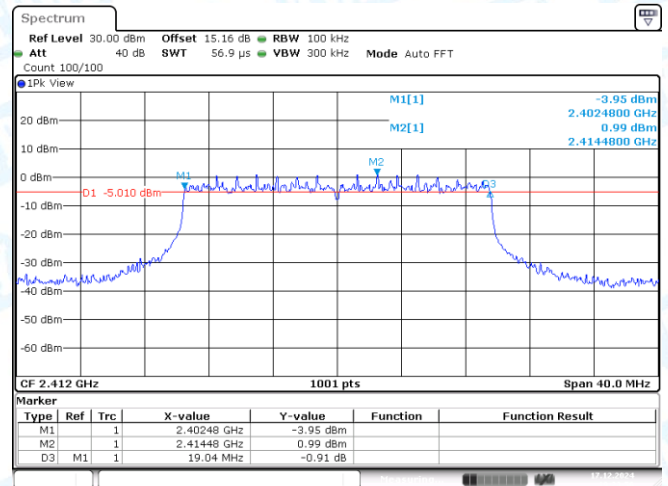
11N20SISO-Ant1-2412-PASS



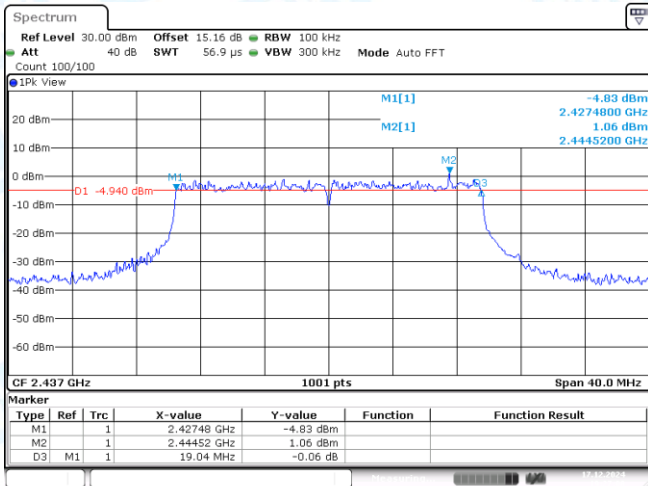
11N20SISO-Ant1-2437-PASS



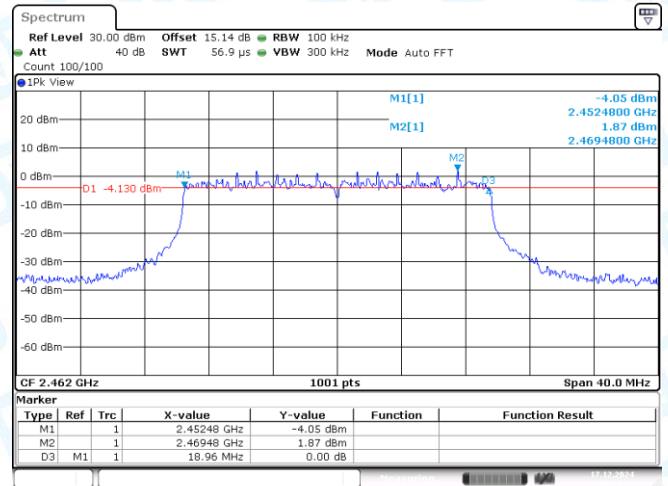
11N20SISO-Ant1-2462-PASS



11AX20SISO-Ant1-2412-PASS



11AX20SISO-Ant1-2437-PASS



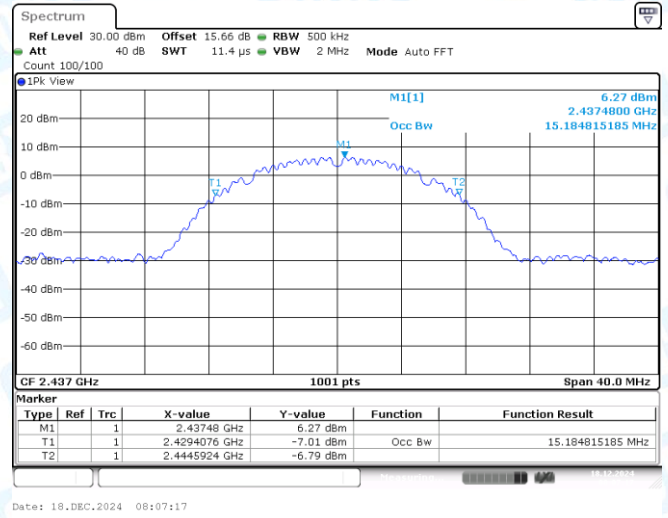
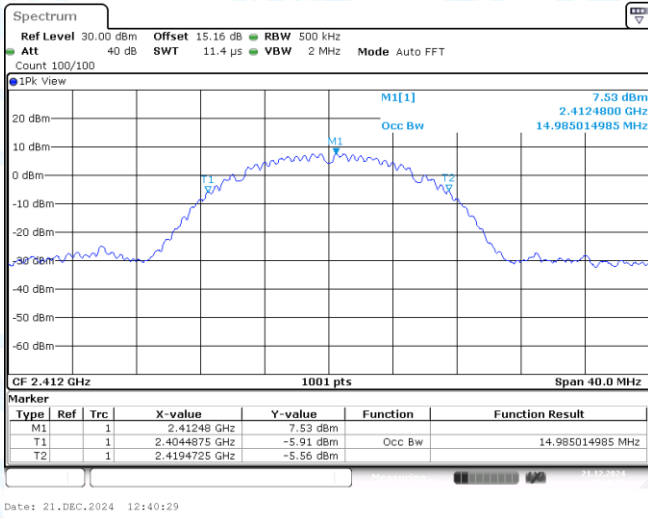
11AX20SISO-Ant1-2462-PASS

2: Occupied Channel Bandwidth

2.1 Test Result

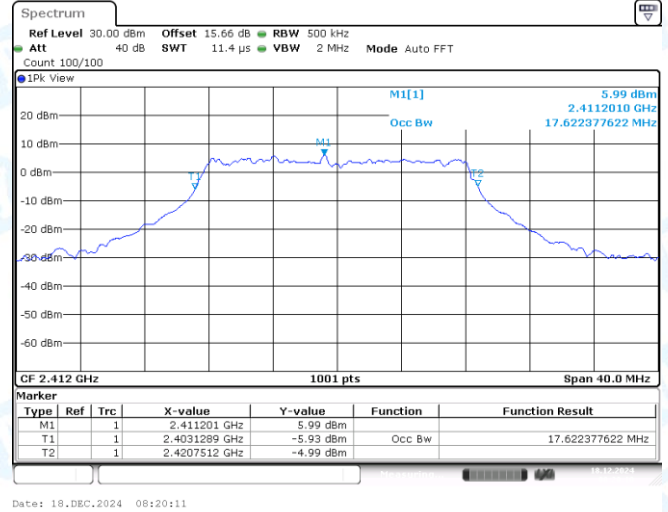
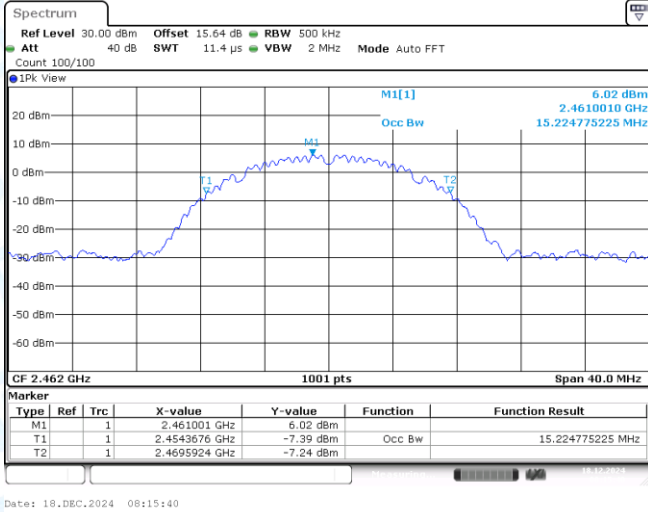
TestMode	Ant.	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.985	2404.4875	2419.4725	---	---
11B	Ant1	2437	15.065	2429.4875	2444.5524	---	---
11B	Ant1	2462	15.065	2454.4875	2469.5524	---	---
11G	Ant1	2412	17.782	2402.8891	2420.6713	---	---
11G	Ant1	2437	17.702	2428.0889	2445.7912	---	---
11G	Ant1	2462	17.862	2452.7692	2470.6314	---	---
11N20SISO	Ant1	2412	18.262	2402.8492	2421.1109	---	---
11N20SISO	Ant1	2437	18.781	2427.5295	2446.3107	---	---
11N20SISO	Ant1	2462	18.741	2452.6094	2471.3506	---	---
11AX20SISO	Ant1	2412	19.301	2402.4096	2421.7103	---	---
11AX20SISO	Ant1	2437	19.301	2427.3297	2446.6304	---	---
11AX20SISO	Ant1	2462	19.061	2452.4096	2471.4705	---	---

2.2 Test Graphs



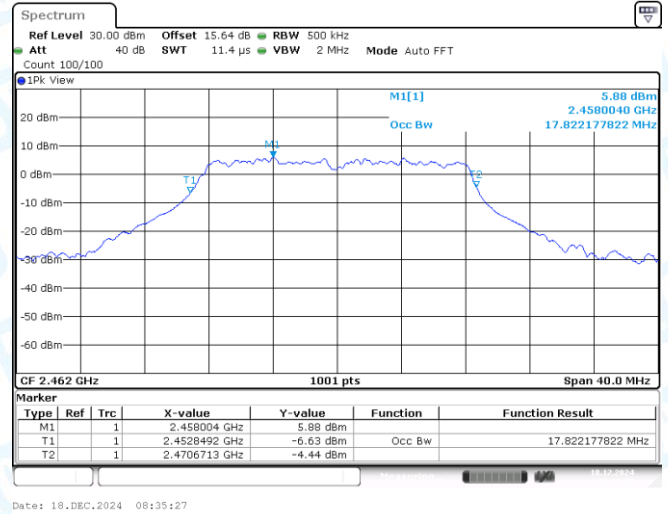
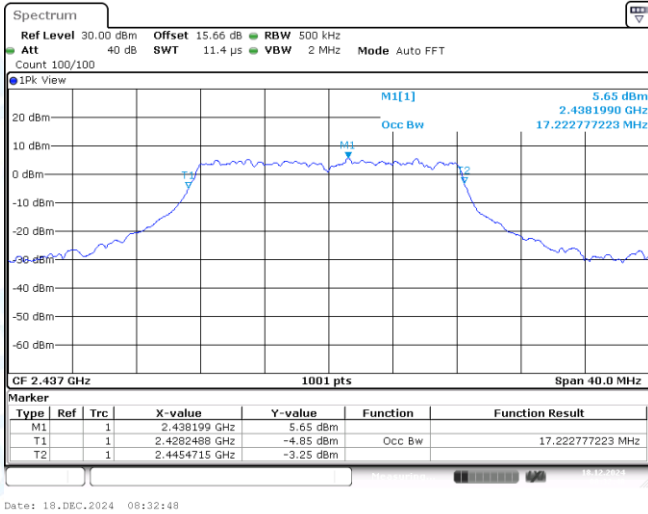
11B-Ant1-2412

11B-Ant1-2437



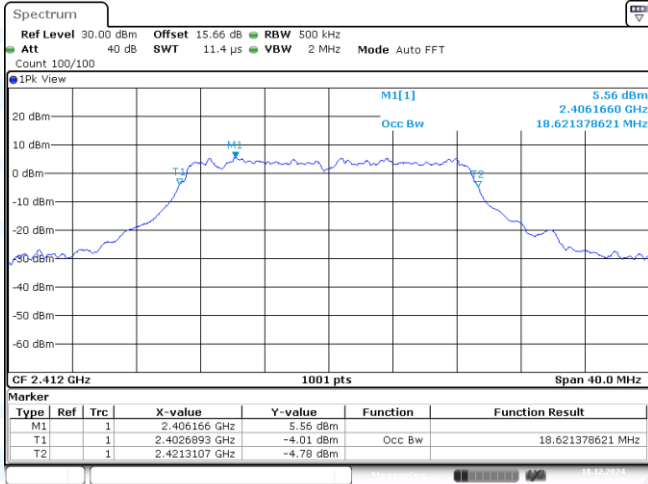
11B-Ant1-2462

11G-Ant1-2412



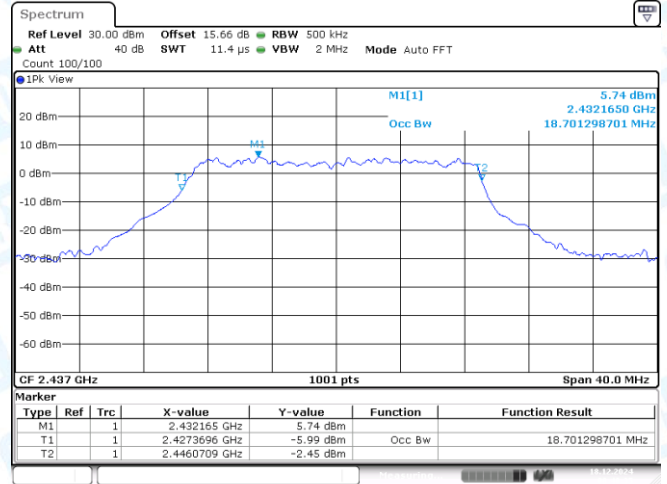
11G-Ant1-2437

11G-Ant1-2462



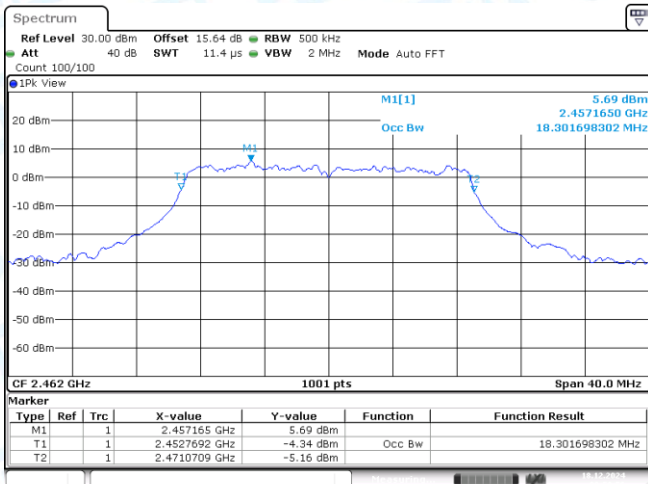
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11N20SISO-Ant1-2412



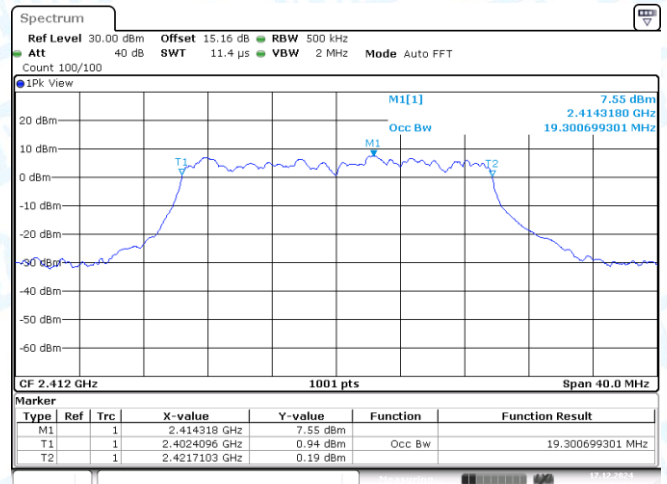
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11N20SISO-Ant1-2437



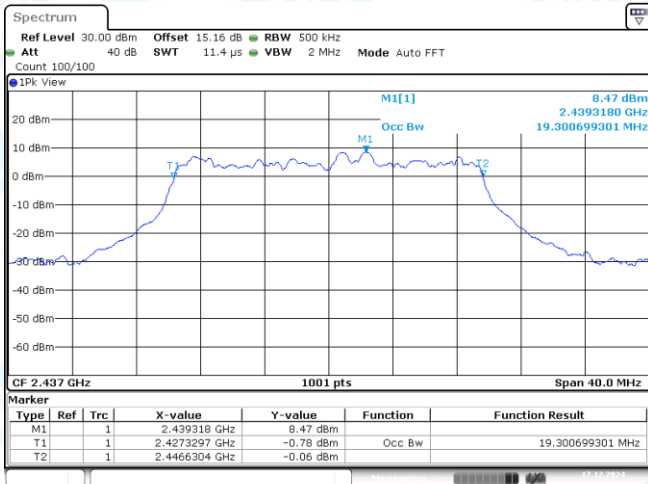
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11N20SISO-Ant1-2462



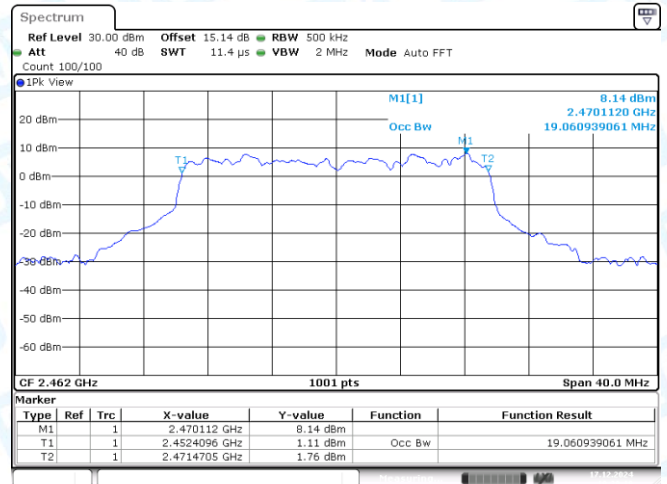
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11AX20SISO-Ant1-2412



Date: 17.DEC.2024 19:27:15

11AX20SISO-Ant1-2437



Date: 17.DEC.2024 19:29:19

11AX20SISO-Ant1-2462

3: Maximum conducted output power

3.1 Test Result

Test Mode	Ant.	Frequency [MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	15.33	≤30.00	PASS
11B	Ant1	2437	15.16	≤30.00	PASS
11B	Ant1	2462	15.77	≤30.00	PASS
11G	Ant1	2412	14.44	≤30.00	PASS
11G	Ant1	2437	14.35	≤30.00	PASS
11G	Ant1	2462	13.38	≤30.00	PASS
11N20SISO	Ant1	2412	12.79	≤30.00	PASS
11N20SISO	Ant1	2437	12.83	≤30.00	PASS
11N20SISO	Ant1	2462	13.04	≤30.00	PASS
11AX20SISO	Ant1	2412	12.74	≤30.00	PASS
11AX20SISO	Ant1	2437	12.90	≤30.00	PASS
11AX20SISO	Ant1	2462	12.21	≤30.00	PASS

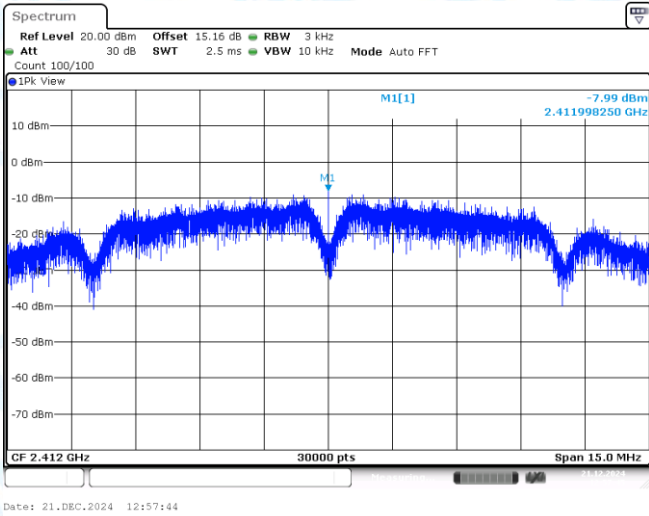
4: Maximum power spectral density

4.1 Test Result

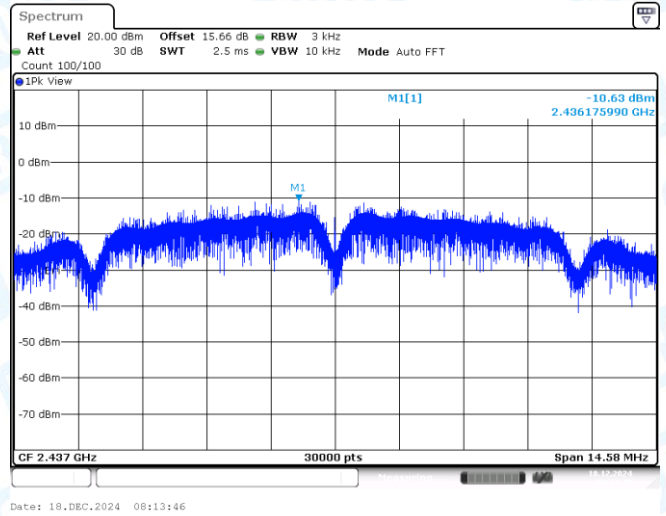
TestMode	Ant.	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.99	≤8.00	PASS
11B	Ant1	2437	-9.53	≤8.00	PASS
11B	Ant1	2462	-8.74	≤8.00	PASS
11G	Ant1	2412	-12.58	≤8.00	PASS
11G	Ant1	2437	-12.23	≤8.00	PASS
11G	Ant1	2462	-16.11	≤8.00	PASS
11N20SISO	Ant1	2412	-14.25	≤8.00	PASS
11N20SISO	Ant1	2437	-13.84	≤8.00	PASS
11N20SISO	Ant1	2462	-13.99	≤8.00	PASS
11AX20SISO	Ant1	2412	-13.86	≤8.00	PASS
11AX20SISO	Ant1	2437	-14.31	≤8.00	PASS
11AX20SISO	Ant1	2462	-14.35	≤8.00	PASS

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

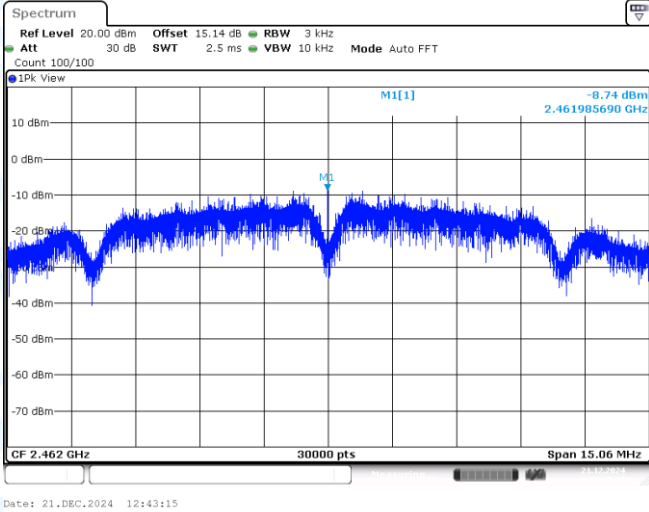
4.2 Test Graphs



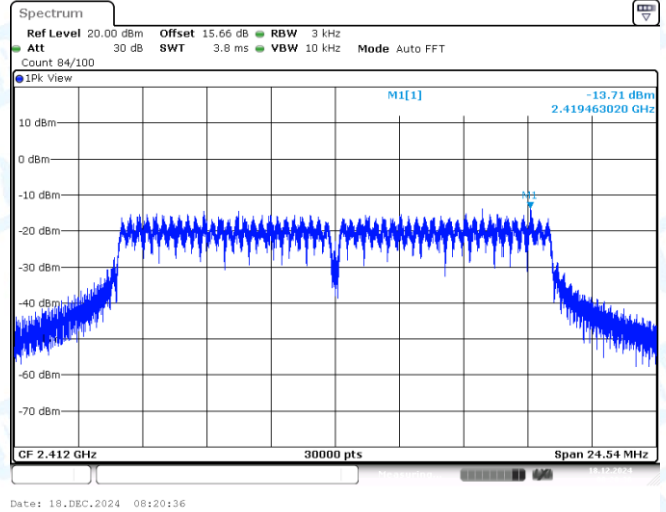
11B-Ant1-2412-PASS



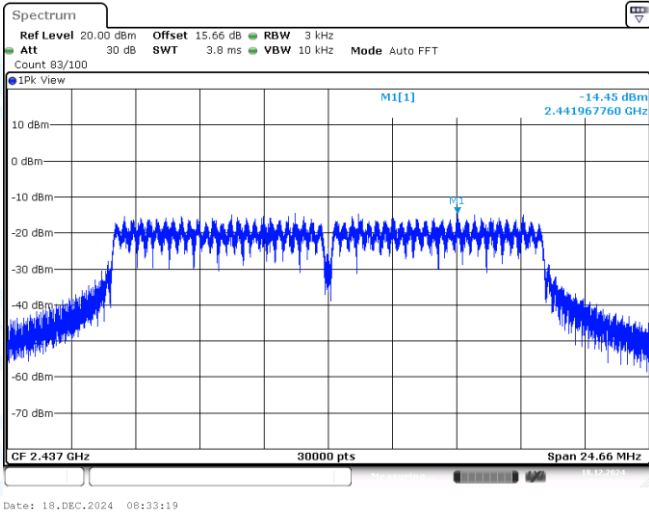
11B-Ant1-2437-PASS



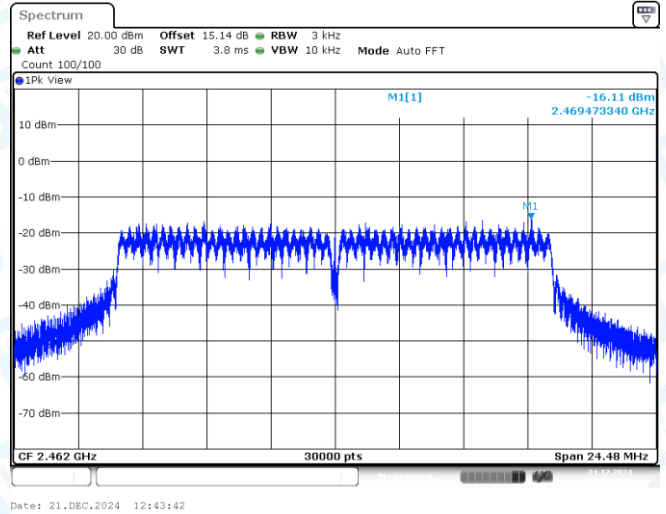
11B-Ant1-2462-PASS



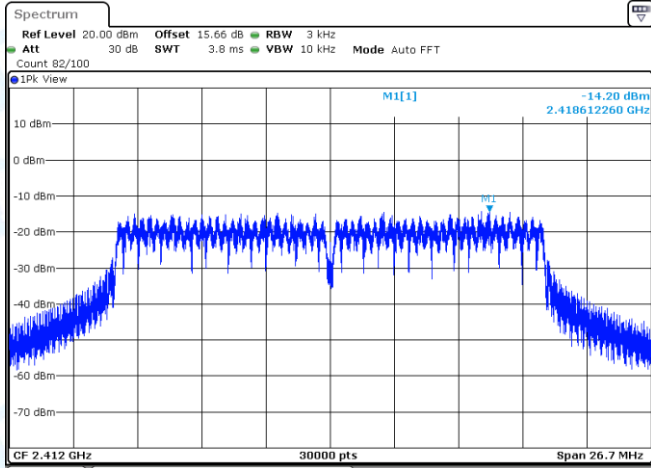
11G-Ant1-2412-PASS



11G-Ant1-2437-PASS

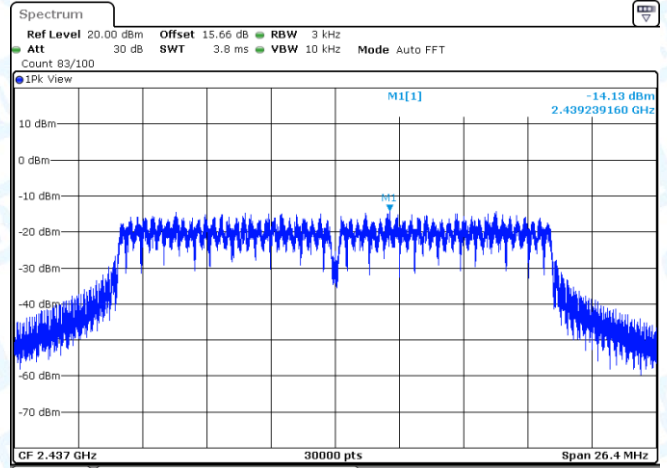


11G-Ant1-2462-PASS



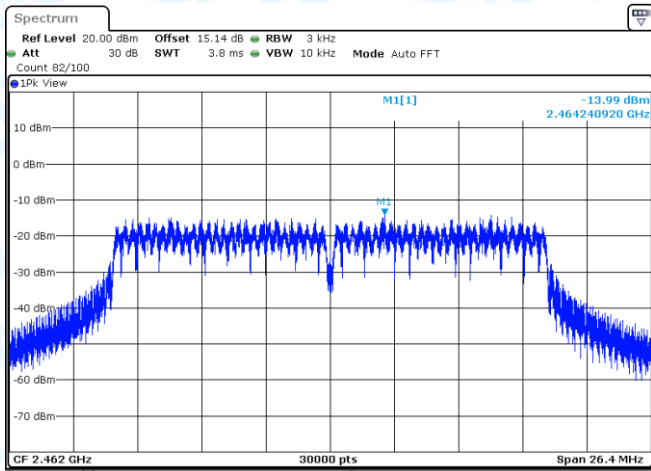
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11N20SISO-Ant1-2412-PASS



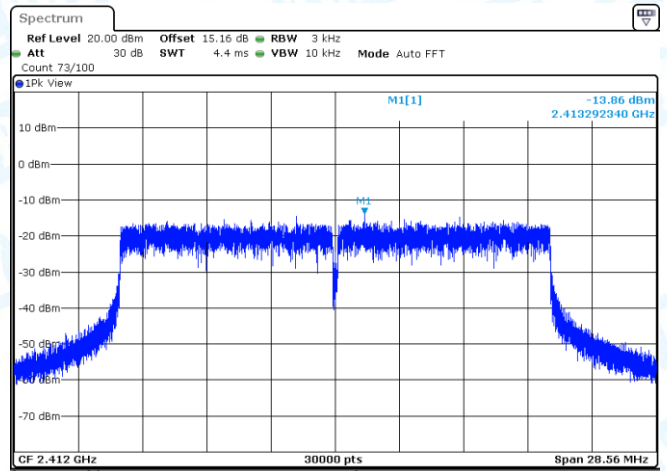
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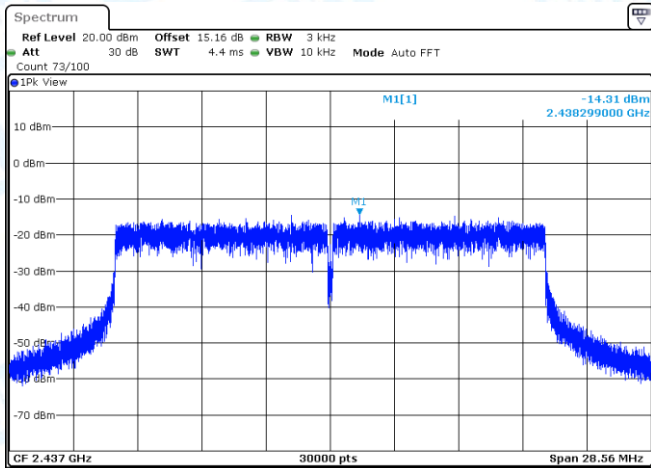
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11N20SISO-Ant1-2462-PASS



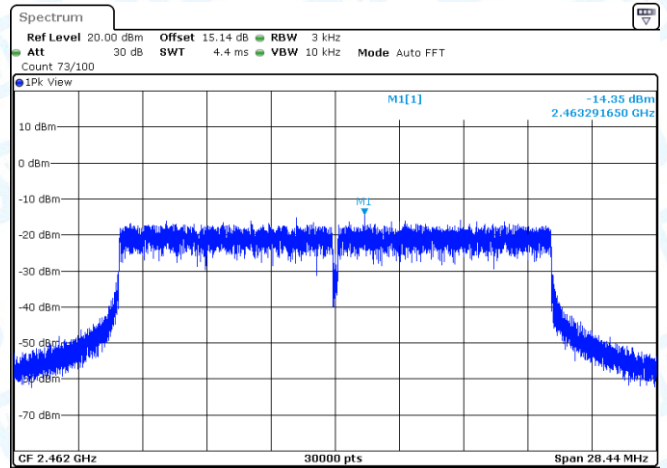
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11AX20SISO-Ant1-2412-PASS



Date: 17.DEC.2024 19:27:37

11AX20SISO-Ant1-2437-PASS



Date: 17.DEC.2024 19:32:57

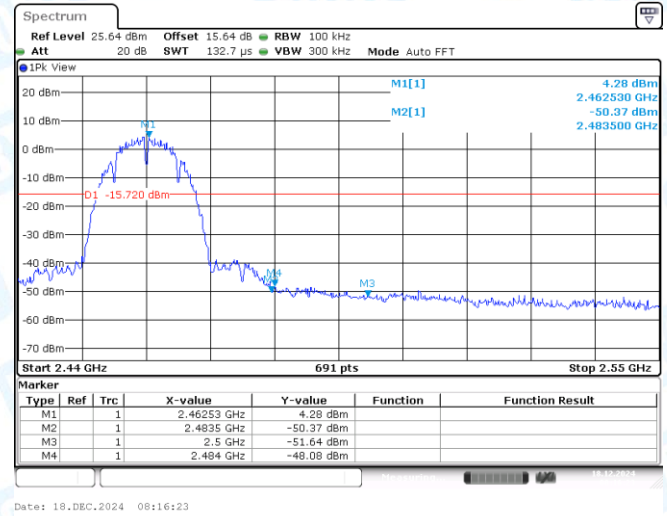
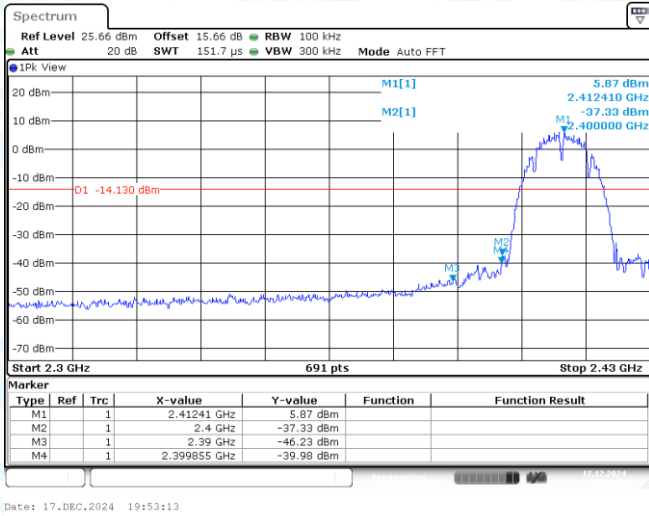
11AX20SISO-Ant1-2462-PASS

5: Band edge measurements

5.1 Test Result

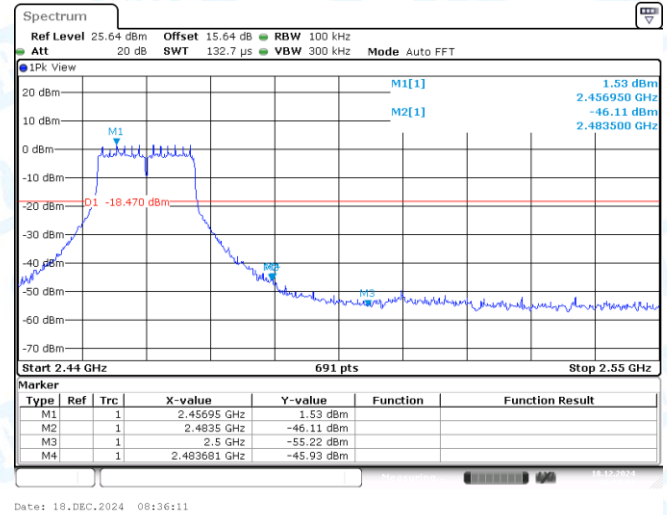
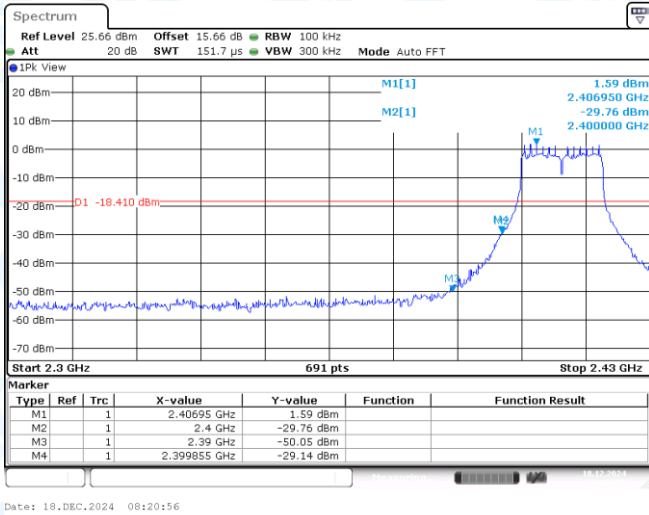
TestMode	Ant.	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.62	-40.58	≤-14.38	PASS
11B	Ant1	High	2462	6.13	-46.54	≤-13.87	PASS
11G	Ant1	Low	2412	3.58	-29.04	≤-16.42	PASS
11G	Ant1	High	2462	1.36	-44.53	≤-18.64	PASS
11N20SISO	Ant1	Low	2412	1.87	-30.04	≤-18.13	PASS
11N20SISO	Ant1	High	2462	2.10	-45.9	≤-17.9	PASS
11AX20SISO	Ant1	Low	2412	1.53	-29.68	≤-18.47	PASS
11AX20SISO	Ant1	High	2462	1.67	-45.06	≤-18.33	PASS

5.2 Test Graphs



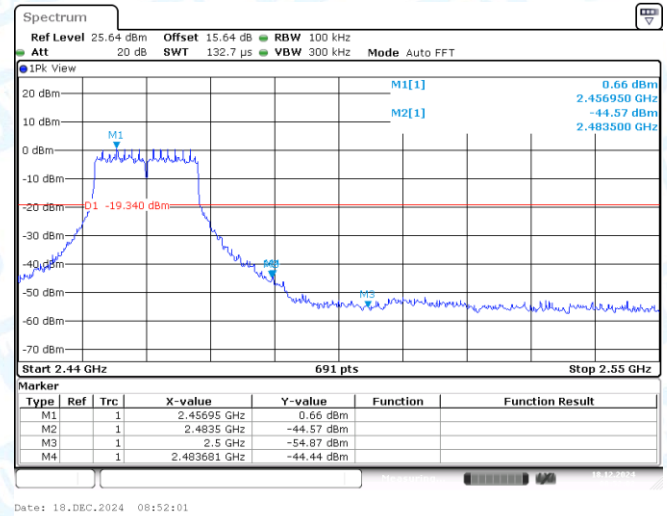
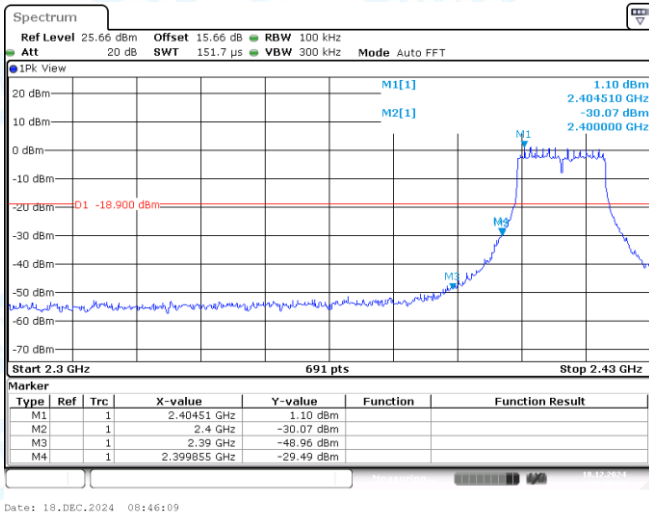
11B-Ant1-2412-PASS

11B-Ant1-2462-PASS



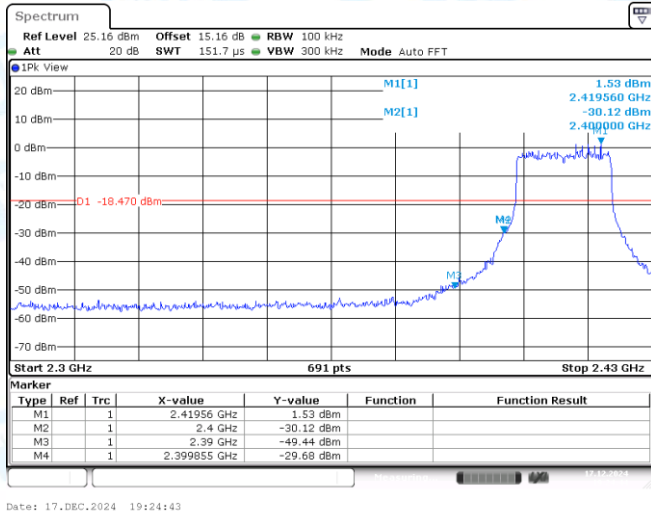
11G-Ant1-2412-PASS

11G-Ant1-2462-PASS

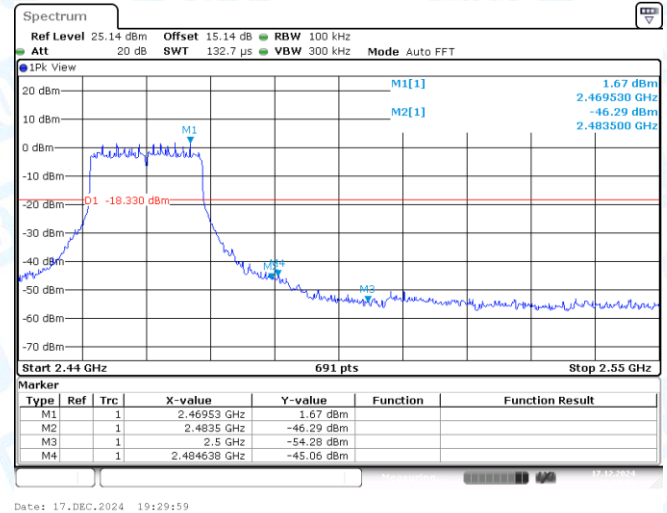


11N20SISO-Ant1-2412-PASS

11N20SISO-Ant1-2462-PASS



11AX20SISO-Ant1-2412-PASS



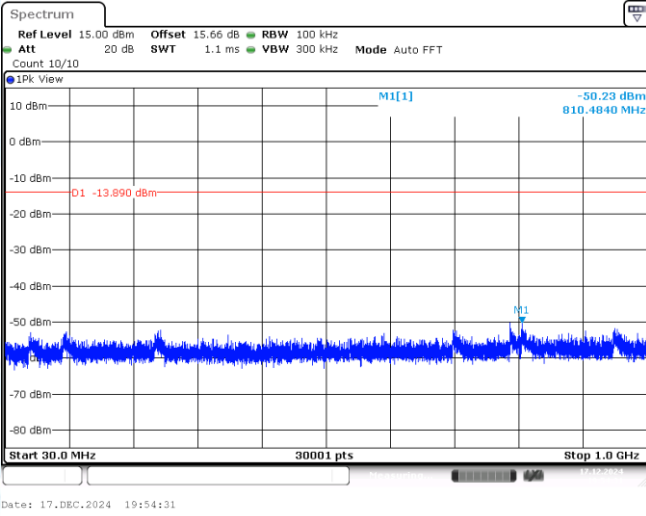
11AX20SISO-Ant1-2462-PASS

6: Conducted Spurious Emission

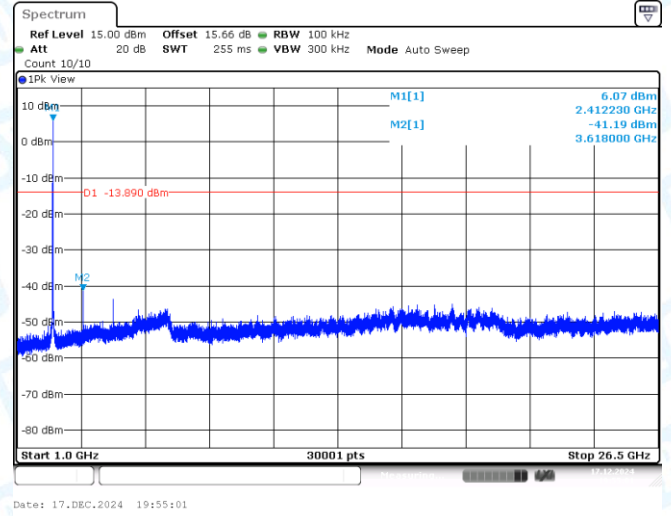
6.1 Test Result

TestMode	Ant.	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	5.85	-52.04	≤-14.15	PASS
11B	Ant1	2412	1000~26500	5.85	-44.27	≤-14.15	PASS
11B	Ant1	2437	30~1000	5.75	-51.17	≤-14.25	PASS
11B	Ant1	2437	1000~26500	5.75	-43.82	≤-14.25	PASS
11B	Ant1	2462	30~1000	6.18	-51.13	≤-13.82	PASS
11B	Ant1	2462	1000~26500	6.18	-43.55	≤-13.82	PASS
11G	Ant1	2412	30~1000	3.61	-51.81	≤-16.39	PASS
11G	Ant1	2412	1000~26500	3.61	-45.48	≤-16.39	PASS
11G	Ant1	2437	30~1000	2.93	-51.74	≤-17.07	PASS
11G	Ant1	2437	1000~26500	2.93	-45.59	≤-17.07	PASS
11G	Ant1	2462	30~1000	3.59	-51.15	≤-16.41	PASS
11G	Ant1	2462	1000~26500	3.59	-42.9	≤-16.41	PASS
11N20SISO	Ant1	2412	30~1000	1.89	-51.88	≤-18.11	PASS
11N20SISO	Ant1	2412	1000~26500	1.89	-45.13	≤-18.11	PASS
11N20SISO	Ant1	2437	30~1000	1.82	-50.36	≤-18.18	PASS
11N20SISO	Ant1	2437	1000~26500	1.82	-45.44	≤-18.18	PASS
11N20SISO	Ant1	2462	30~1000	2.33	-50.66	≤-17.67	PASS
11N20SISO	Ant1	2462	1000~26500	2.33	-44.71	≤-17.67	PASS
11AX20SISO	Ant1	2412	30~1000	1.25	-51.41	≤-18.75	PASS
11AX20SISO	Ant1	2412	1000~26500	1.25	-45.11	≤-18.75	PASS
11AX20SISO	Ant1	2437	30~1000	1.45	-50.67	≤-18.55	PASS
11AX20SISO	Ant1	2437	1000~26500	1.45	-46.18	≤-18.55	PASS
11AX20SISO	Ant1	2462	30~1000	1.93	-50.67	≤-18.07	PASS
11AX20SISO	Ant1	2462	1000~26500	1.93	-46.02	≤-18.07	PASS

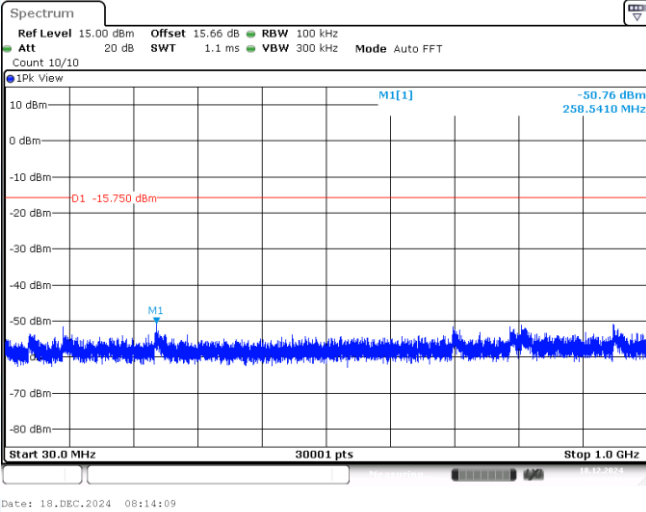
6.2 Test Graphs



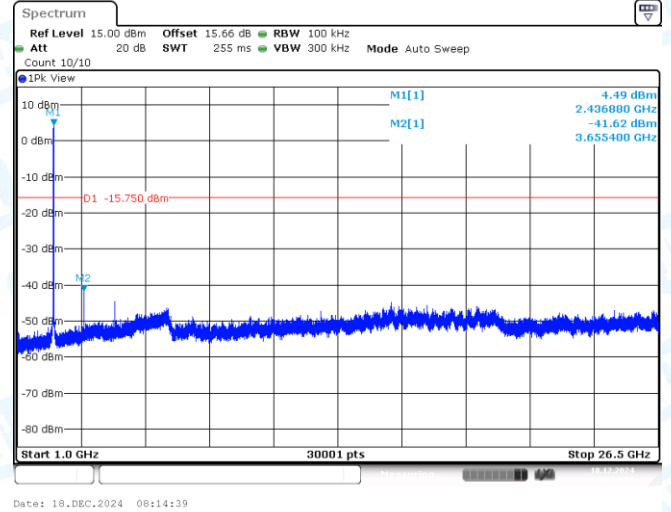
11B-Ant1-2412-30~1000-PASS



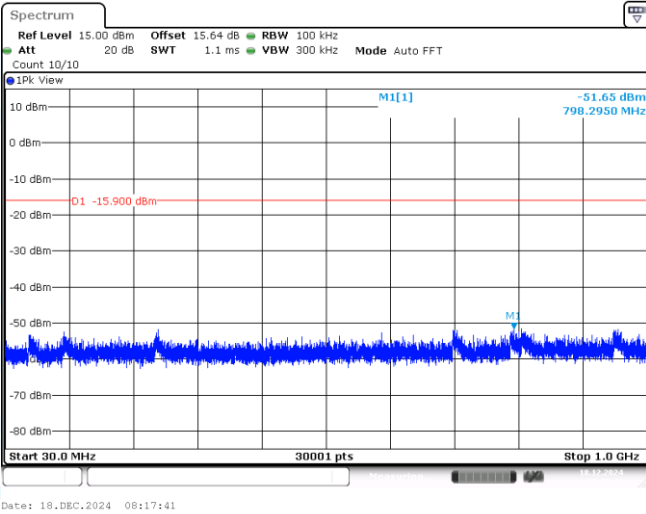
11B-Ant1-2412-1000~26500-PASS



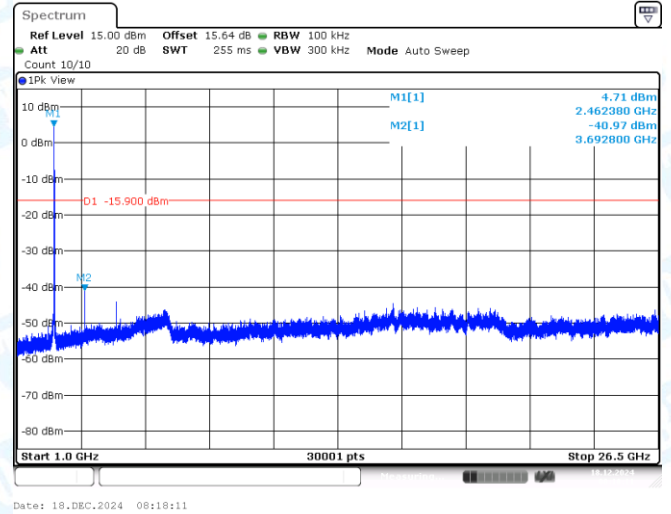
11B-Ant1-2437-30~1000-PASS



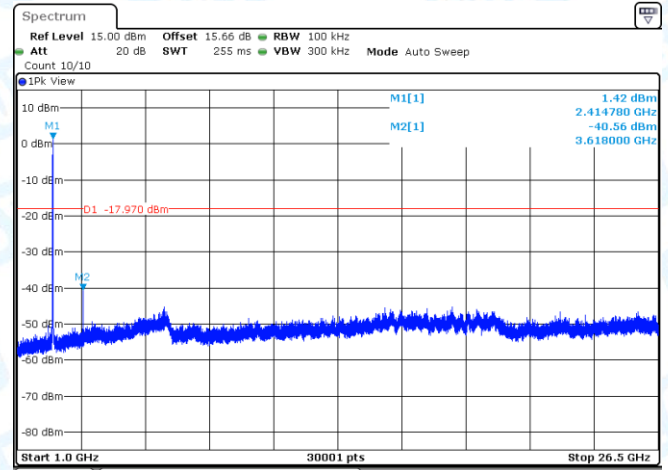
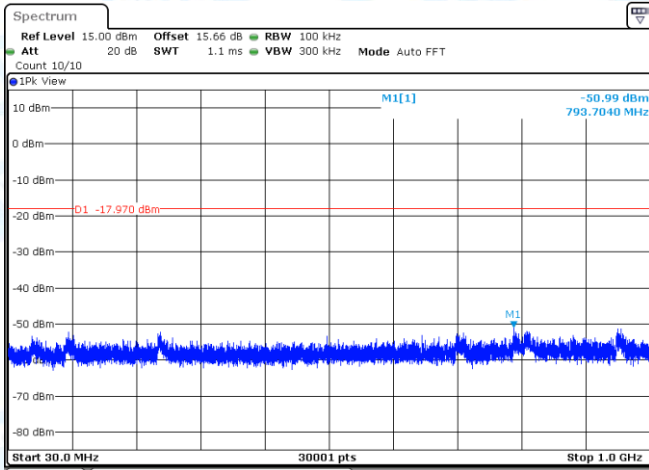
11B-Ant1-2437-1000~26500-PASS



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

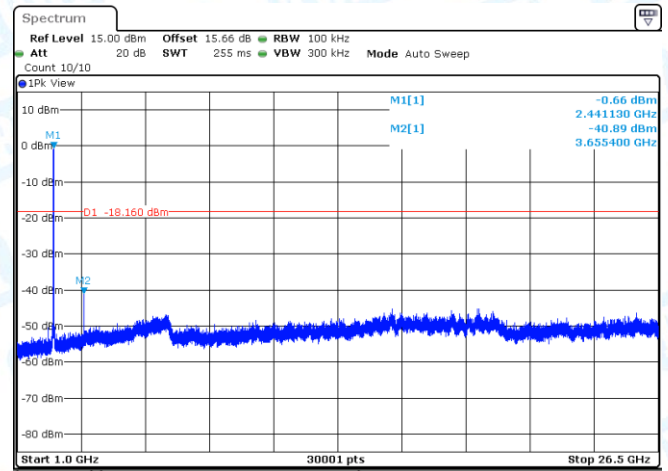
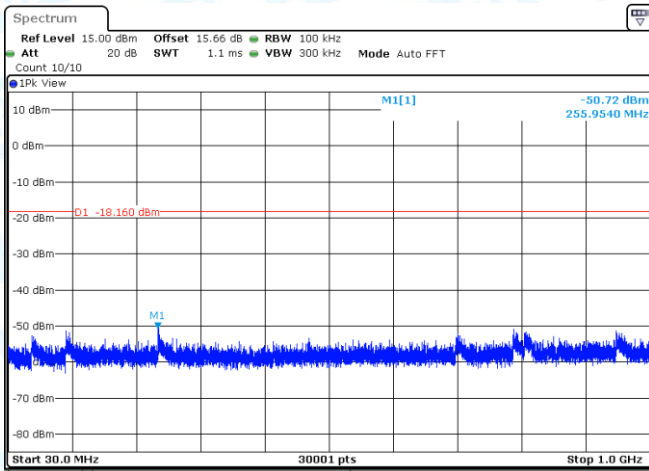


11B-Ant1-2462-1000~26500-PASS



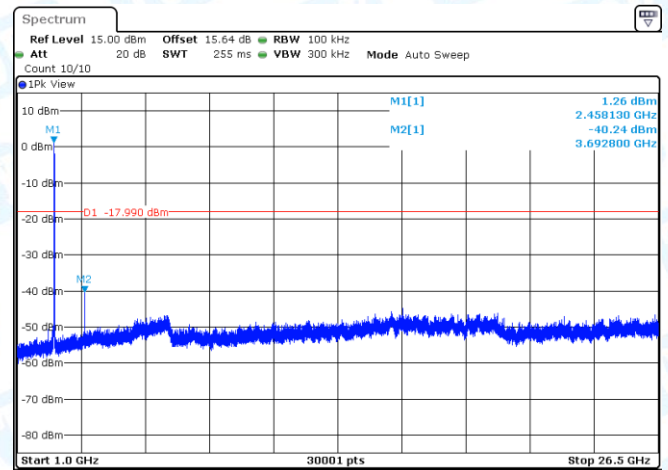
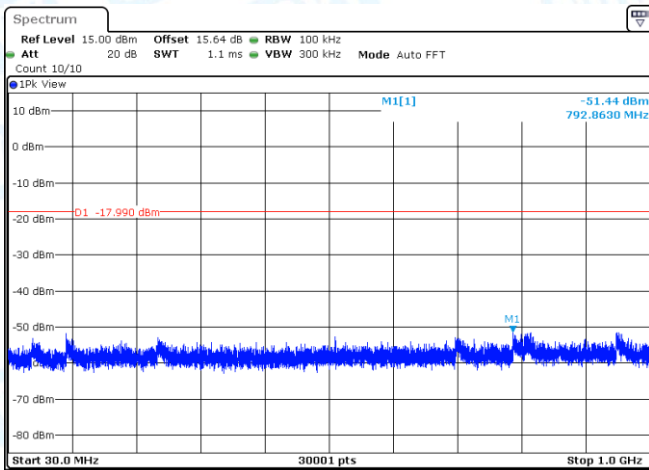
11G-Ant1-2412-30~1000-PASS

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



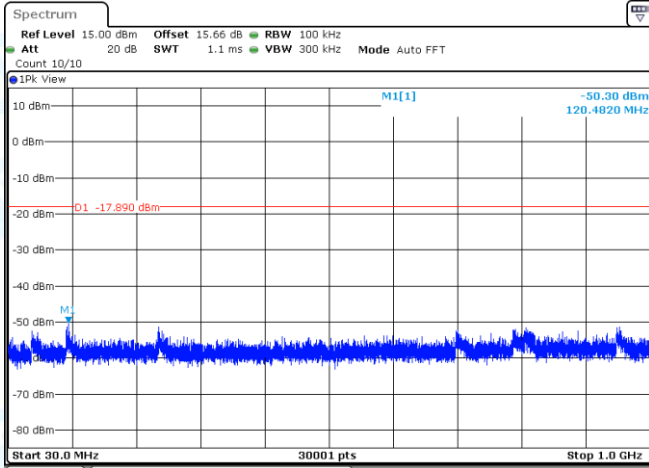
11G-Ant1-2437-30~1000-PASS

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



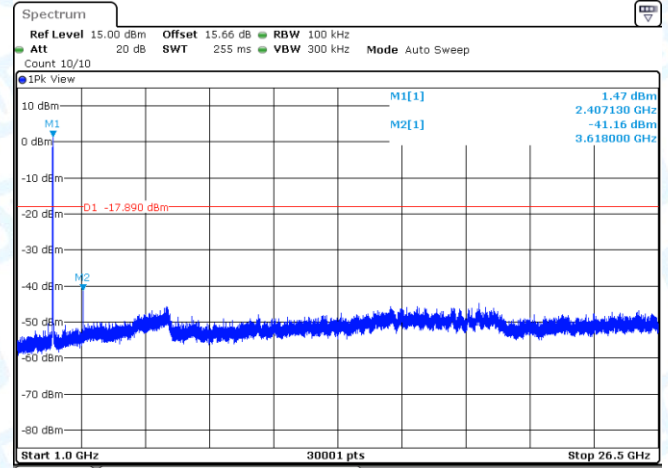
11G-Ant1-2462-30~1000-PASS

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



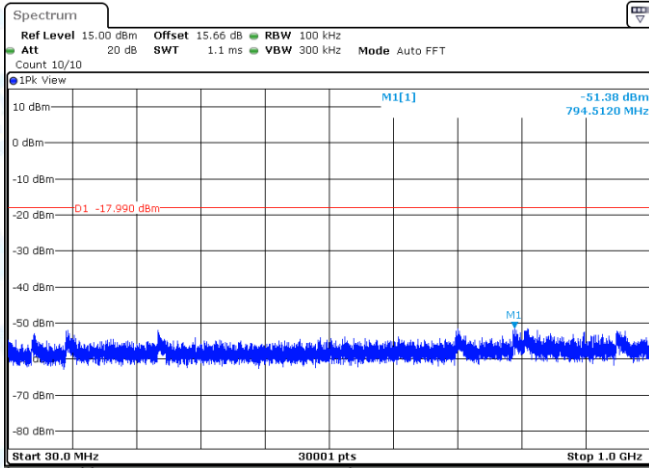
Date: 18.DEC.2024 08:47:27

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



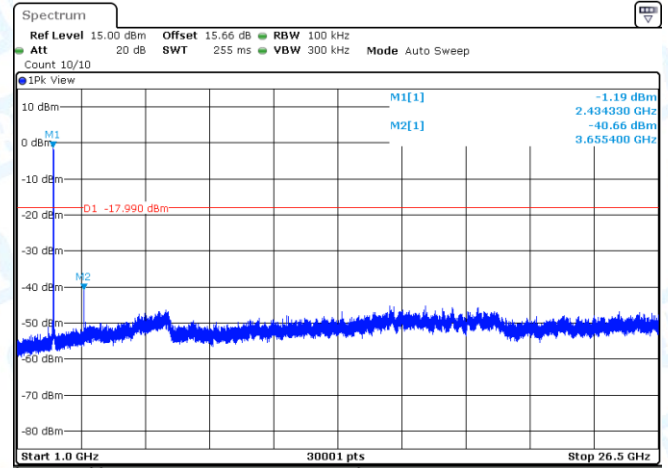
Date: 18.DEC.2024 08:47:57

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



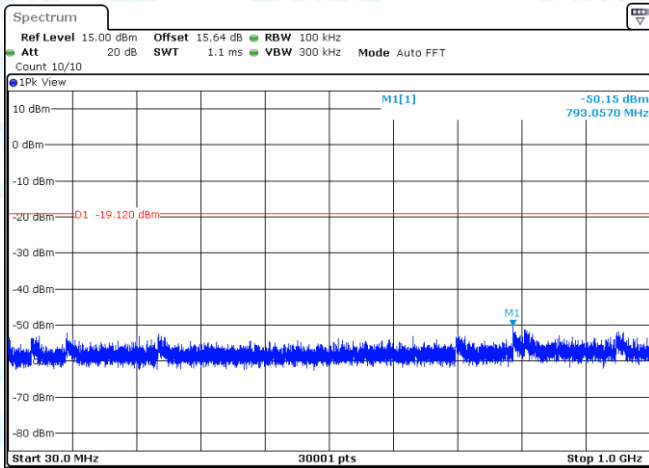
Date: 18.DEC.2024 08:49:21

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



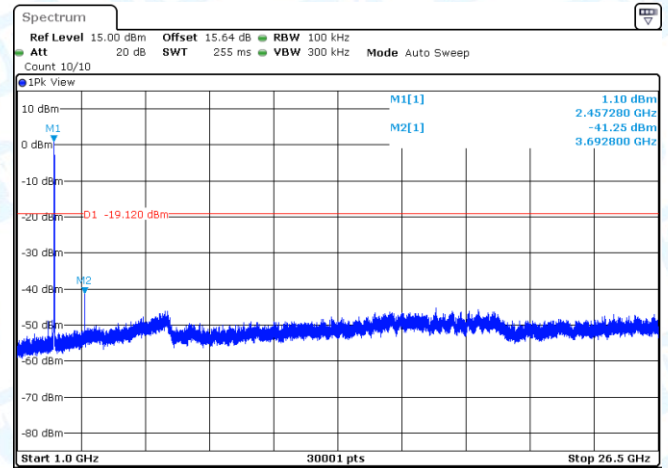
Date: 18.DEC.2024 08:49:51

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



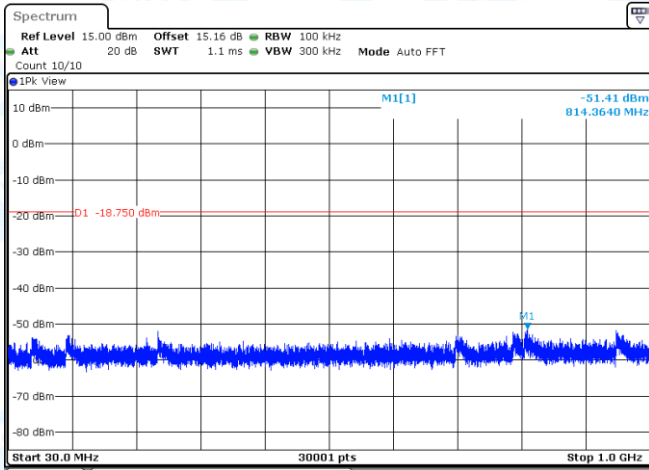
Date: 18.DEC.2024 08:53:20

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



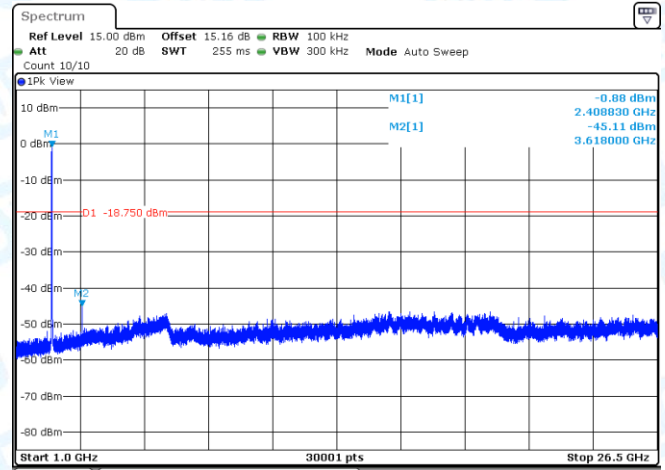
Date: 18.DEC.2024 08:53:49

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



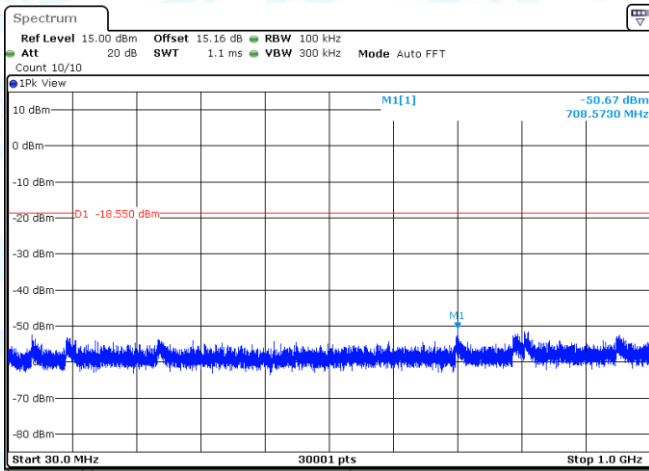
Date: 17.DEC.2024 19:26:01

11AX20SISO-Ant1-2412-30~1000-PASS



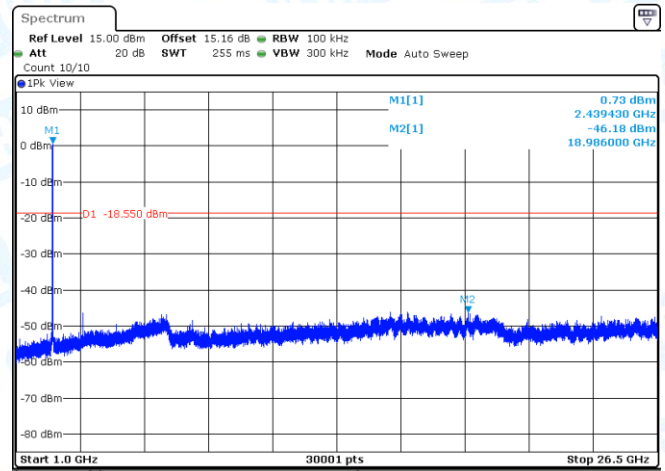
Date: 17.DEC.2024 19:26:31

11AX20SISO-Ant1-2412-1000~26500-PASS



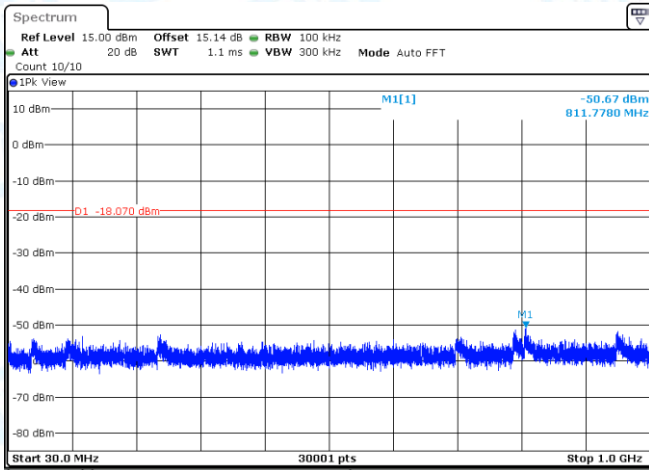
Date: 17.DEC.2024 19:28:00

11AX20SISO-Ant1-2437-30~1000-PASS



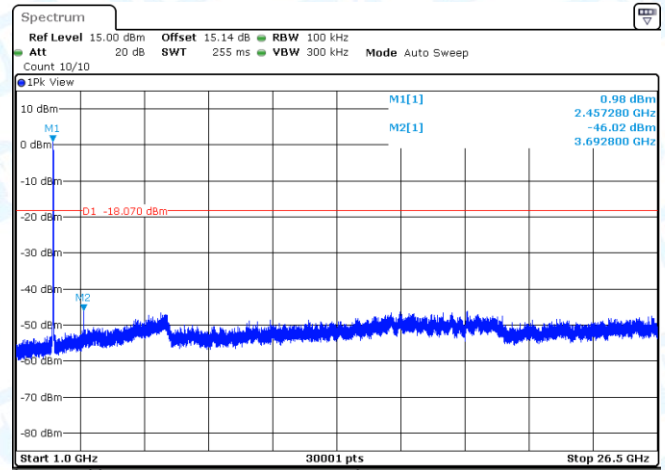
Date: 17.DEC.2024 19:28:29

11AX20SISO-Ant1-2437-1000~26500-PASS



Date: 17.DEC.2024 19:31:17

11AX20SISO-Ant1-2462-30~1000-PASS



Date: 17.DEC.2024 19:31:47

11AX20SISO-Ant1-2462-1000~26500-PASS

7: Duty Cycle

7.1 Test Result

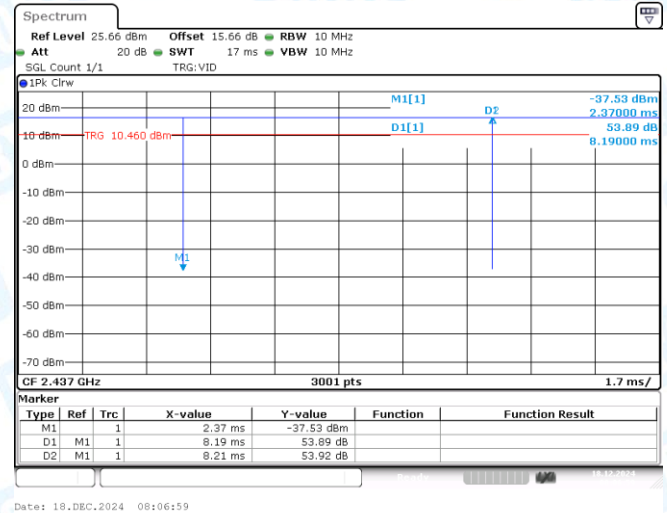
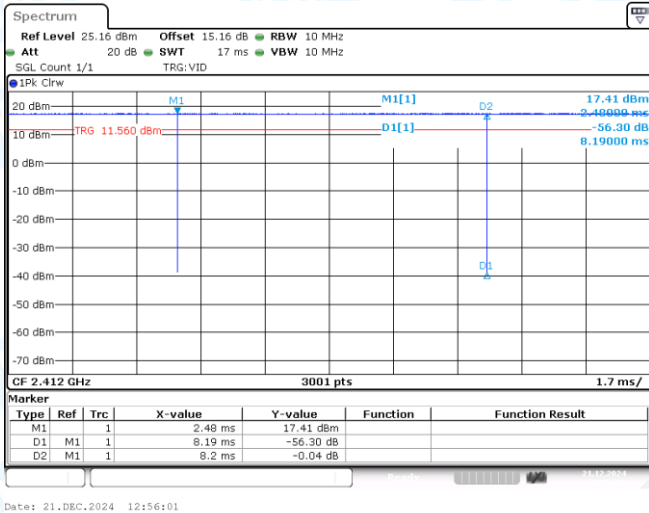
TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factory	1/T [kHz]
11B	Ant1	2412	8.19	8.20	99.88	0.01	0.12
11B	Ant1	2437	8.19	8.21	99.76	0.01	0.12
11B	Ant1	2462	8.19	8.21	99.76	0.01	0.12
11G	Ant1	2412	1.36	1.38	98.55	0.06	0.74
11G	Ant1	2437	1.36	1.37	99.27	0.03	0.74
11G	Ant1	2462	1.36	1.37	99.27	0.03	0.74
11N20SISO	Ant1	2412	1.27	1.29	98.45	0.07	0.79
11N20SISO	Ant1	2437	1.27	1.28	99.22	0.03	0.79
11N20SISO	Ant1	2462	1.27	1.28	99.22	0.03	0.79
11AX20SISO	Ant1	2412	0.98	1.00	98.00	0.09	1.02
11AX20SISO	Ant1	2437	0.98	1.00	98.00	0.09	1.02
11AX20SISO	Ant1	2462	0.99	1.00	99.00	0.04	1.01

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

2, DC Factory=10*Log₁₀(1/Duty Cycle)

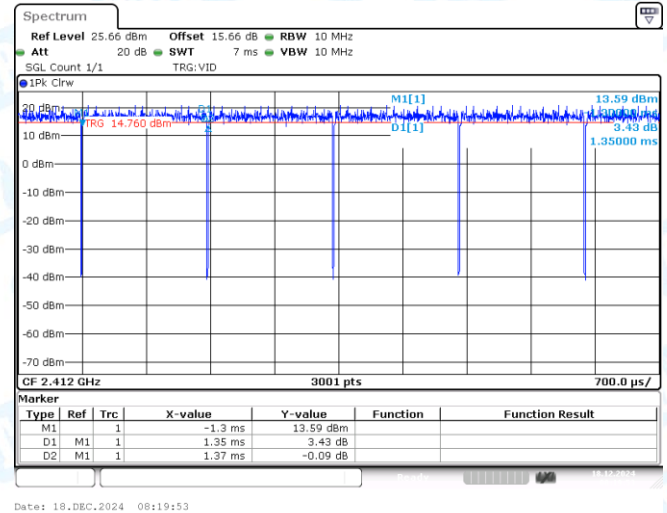
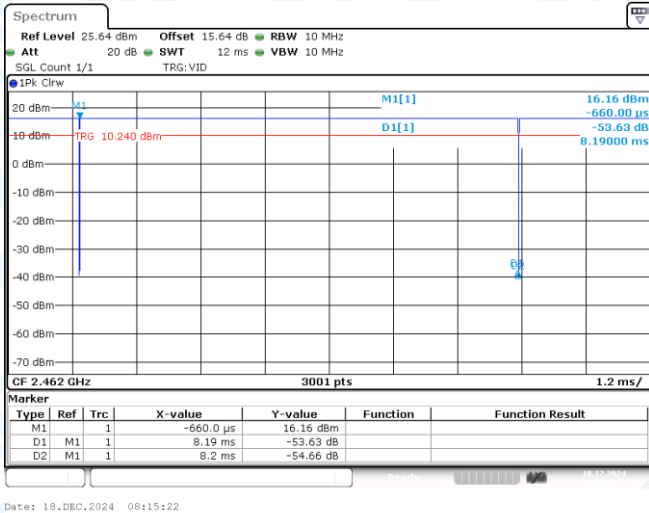
3, 1/T=1/ Transmission Duration

7.2 Test Graphs



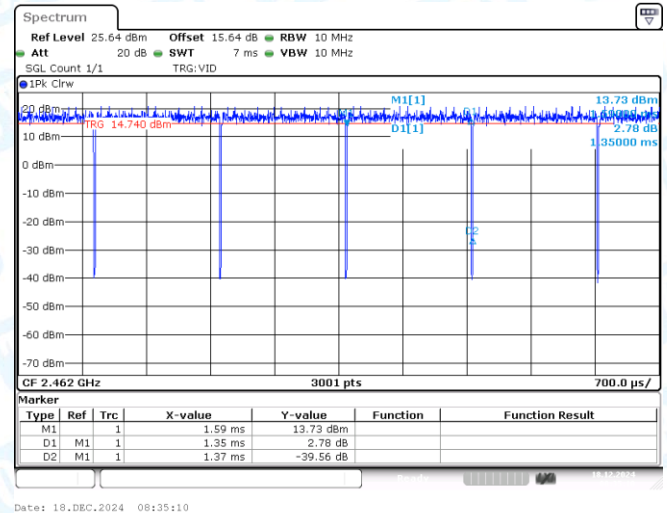
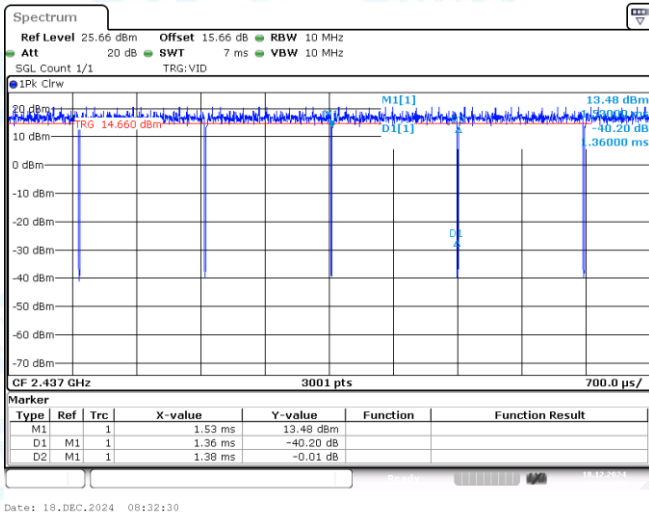
NTNV-11B-Ant1-2412

NTNV-11B-Ant1-2437



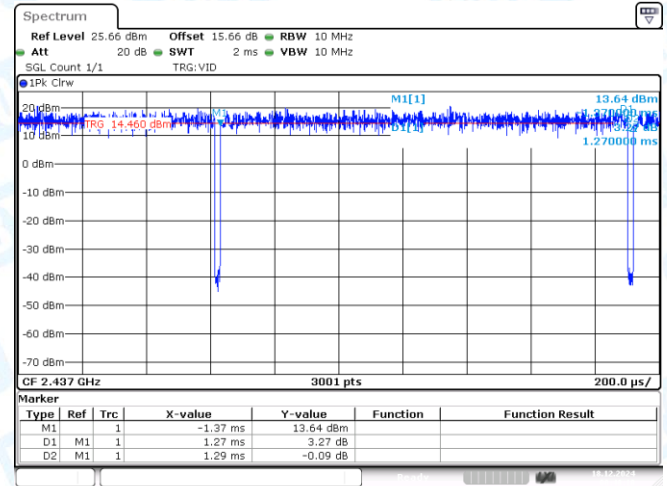
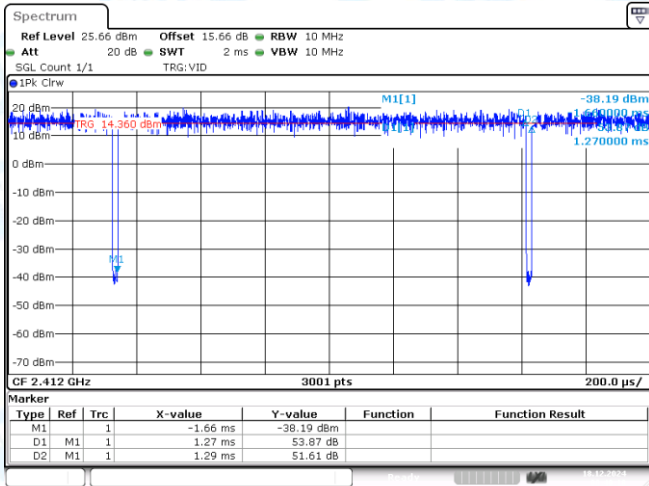
NTNV-11B-Ant1-2462

NTNV-11G-Ant1-2412



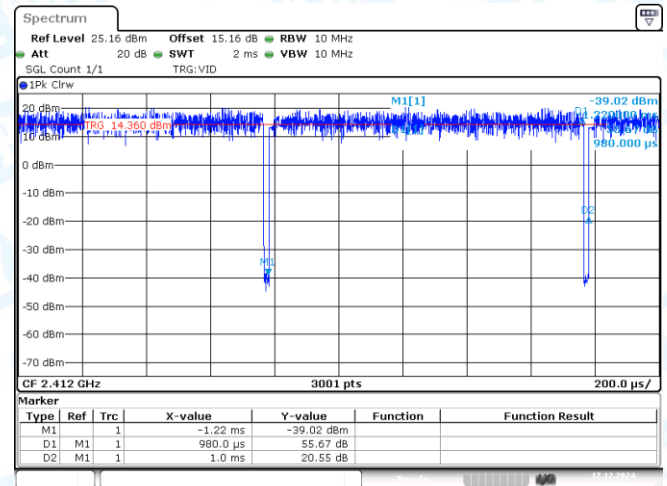
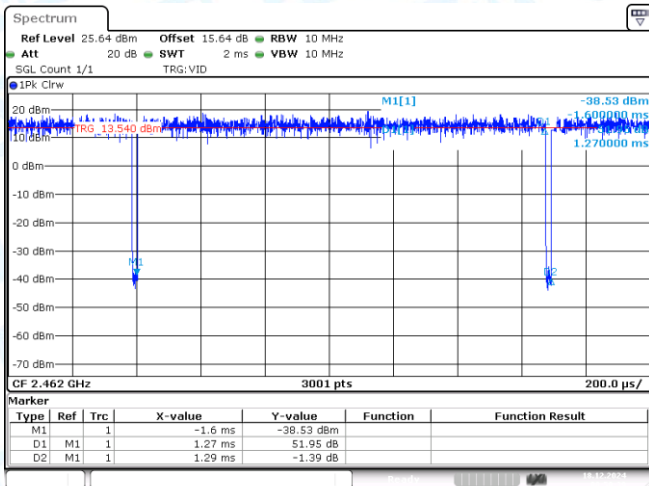
NTNV-11G-Ant1-2437

NTNV-11G-Ant1-2462



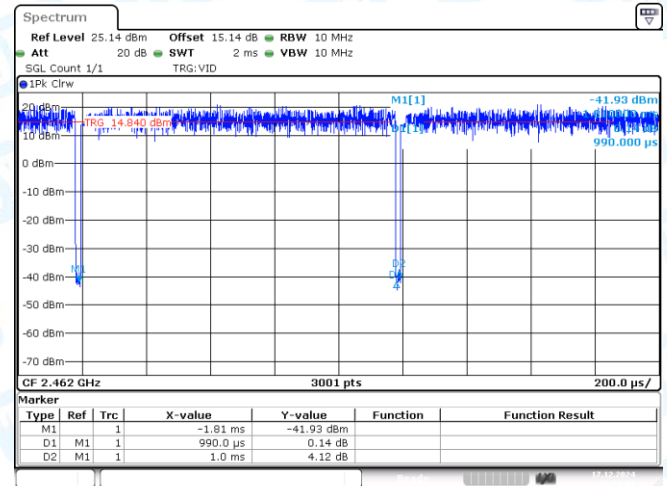
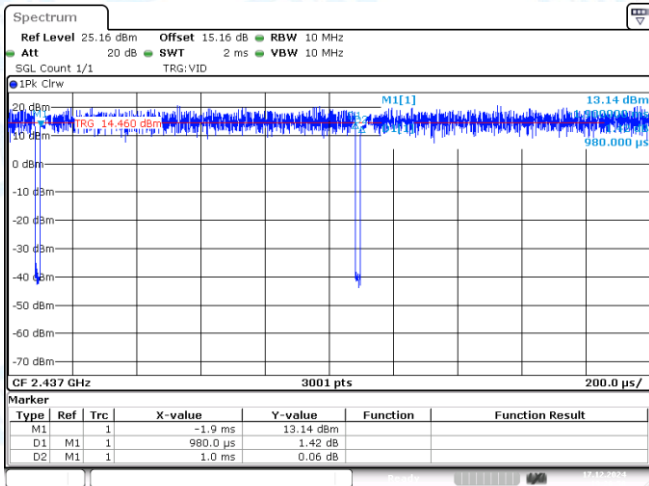
NTNV-11N20SISO-Ant1-2412

NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

NTNV-11AX20SISO-Ant1-2412



NTNV-11AX20SISO-Ant1-2437

NTNV-11AX20SISO-Ant1-2462

8: Emissions in Restricted Bands

8.1 Test Result

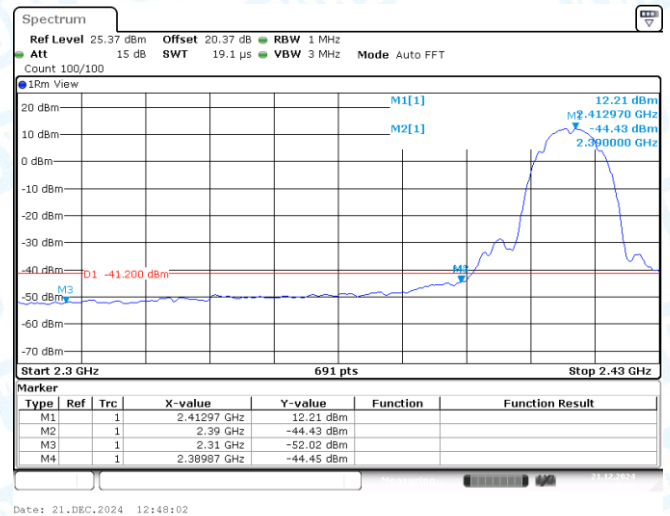
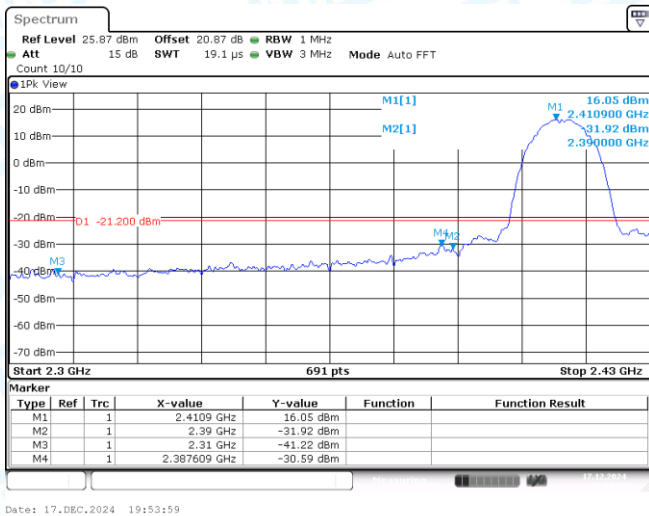
TestMode	Ant.	ChName	Freq. [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	Peak	2390.000	-35.25	≤-21.20	59.95	≤74	PASS
11B	Ant1	Low	2412	Peak	2310.000	-42.19	≤-21.20	53.01	≤74	PASS
11B	Ant1	Low	2412	Peak	2387.986	-32.87	≤-21.20	62.33	≤74	PASS
11B	Ant1	Low	2412	AV	2390.000	-44.43	≤-41.20	50.77	≤54	PASS
11B	Ant1	Low	2412	AV	2310.000	-52.02	≤-41.20	43.18	≤54	PASS
11B	Ant1	Low	2412	AV	2389.870	-44.45	≤-41.20	50.75	≤54	PASS
11B	Ant1	High	2462	Peak	2483.500	-33.61	≤-21.20	61.59	≤74	PASS
11B	Ant1	High	2462	Peak	2500.000	-38.19	≤-21.20	57.01	≤74	PASS
11B	Ant1	High	2462	Peak	2487.348	-33.11	≤-21.20	62.09	≤74	PASS
11B	Ant1	High	2462	AV	2483.500	-44.45	≤-41.20	50.75	≤54	PASS
11B	Ant1	High	2462	AV	2500.000	-48.52	≤-41.20	46.68	≤54	PASS
11B	Ant1	High	2462	AV	2487.826	-43.38	≤-41.20	51.82	≤54	PASS
11G	Ant1	Low	2412	Peak	2390.000	-28.16	≤-21.20	67.04	≤74	PASS
11G	Ant1	Low	2412	Peak	2310.000	-43.89	≤-21.20	51.31	≤74	PASS
11G	Ant1	Low	2412	Peak	2389.116	-27.23	≤-21.20	67.97	≤74	PASS
11G	Ant1	Low	2412	AV	2390.000	-42.78	≤-41.20	52.42	≤54	PASS
11G	Ant1	Low	2412	AV	2310.000	-53.35	≤-41.20	41.85	≤54	PASS
11G	Ant1	Low	2412	AV	2389.870	-43.06	≤-41.20	52.14	≤54	PASS
11G	Ant1	High	2462	Peak	2483.500	-27.68	≤-21.20	67.52	≤74	PASS
11G	Ant1	High	2462	Peak	2500.000	-39.48	≤-21.20	55.72	≤74	PASS
11G	Ant1	High	2462	Peak	2483.522	-27.68	≤-21.20	67.52	≤74	PASS
11G	Ant1	High	2462	AV	2483.500	-42.97	≤-41.20	52.23	≤54	PASS
11G	Ant1	High	2462	AV	2500.000	-51.01	≤-41.20	44.19	≤54	PASS
11G	Ant1	High	2462	AV	2483.522	-42.97	≤-41.20	52.23	≤54	PASS
11N20SISO	Ant1	Low	2412	Peak	2390.000	-30.25	≤-21.20	64.95	≤74	PASS
11N20SISO	Ant1	Low	2412	Peak	2310.000	-44.09	≤-21.20	51.11	≤74	PASS
11N20SISO	Ant1	Low	2412	Peak	2389.681	-30.32	≤-21.20	64.88	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2390.000	-42	≤-41.20	53.20	≤54	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-53.45	≤-41.20	41.75	≤54	PASS
11N20SISO	Ant1	Low	2412	AV	2389.870	-42.43	≤-41.20	52.77	≤54	PASS
11N20SISO	Ant1	High	2462	Peak	2483.500	-28.23	≤-21.20	66.97	≤74	PASS
11N20SISO	Ant1	High	2462	Peak	2500.000	-40.62	≤-21.20	54.58	≤74	PASS
11N20SISO	Ant1	High	2462	Peak	2484.159	-27.63	≤-21.20	67.57	≤74	PASS
11N20SISO	Ant1	High	2462	AV	2483.500	-41.53	≤-41.20	53.67	≤54	PASS
11N20SISO	Ant1	High	2462	AV	2500.000	-50.27	≤-41.20	44.93	≤54	PASS
11N20SISO	Ant1	High	2462	AV	2483.522	-41.53	≤-41.20	53.67	≤54	PASS
11AX20SISO	Ant1	Low	2412	Peak	2390.000	-29.28	≤-21.20	65.92	≤74	PASS
11AX20SISO	Ant1	Low	2412	Peak	2310.000	-43.87	≤-21.20	51.33	≤74	PASS
11AX20SISO	Ant1	Low	2412	Peak	2389.493	-28.63	≤-21.20	66.57	≤74	PASS
11AX20SISO	Ant1	Low	2412	AV	2390.000	-43.51	≤-41.20	51.69	≤54	PASS

11AX20SISO	Ant1	Low	2412	AV	2310.000	-52.68	≤-41.20	42.52	≤54	PASS
11AX20SISO	Ant1	Low	2412	AV	2389.116	-43.66	≤-41.20	51.54	≤54	PASS
11AX20SISO	Ant1	High	2462	Peak	2483.500	-27.93	≤-21.20	67.27	≤74	PASS
11AX20SISO	Ant1	High	2462	Peak	2500.000	-40.47	≤-21.20	54.73	≤74	PASS
11AX20SISO	Ant1	High	2462	Peak	2484.957	-26.43	≤-21.20	68.77	≤74	PASS
11AX20SISO	Ant1	High	2462	AV	2483.500	-41.68	≤-41.20	53.52	≤54	PASS
11AX20SISO	Ant1	High	2462	AV	2500.000	-51.05	≤-41.20	44.15	≤54	PASS
11AX20SISO	Ant1	High	2462	AV	2483.522	-41.68	≤-41.20	53.52	≤54	PASS

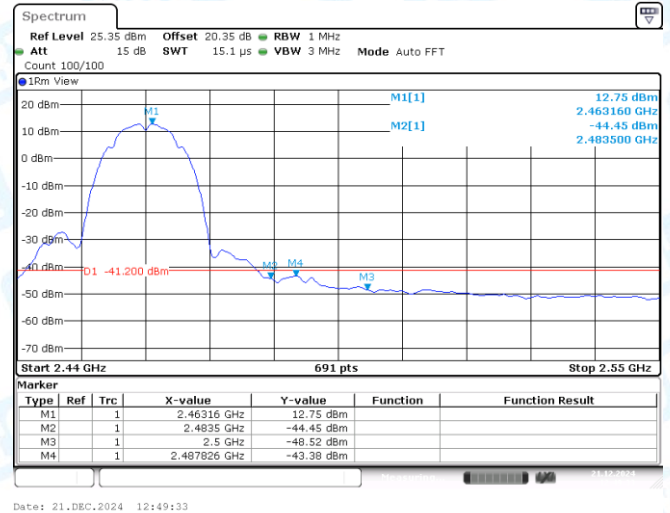
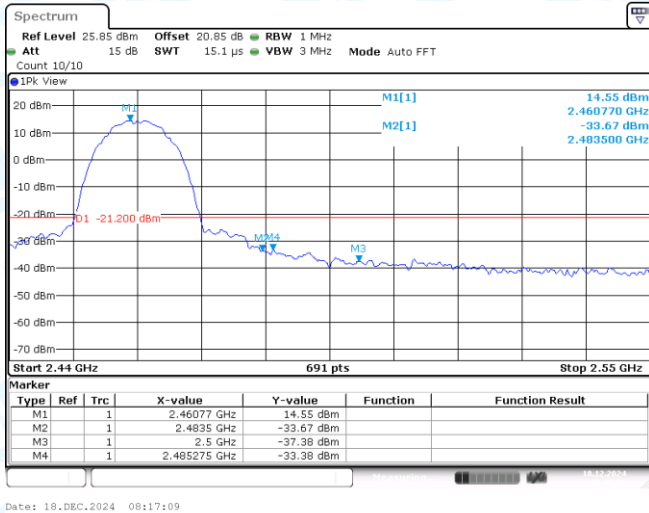
Note:

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.

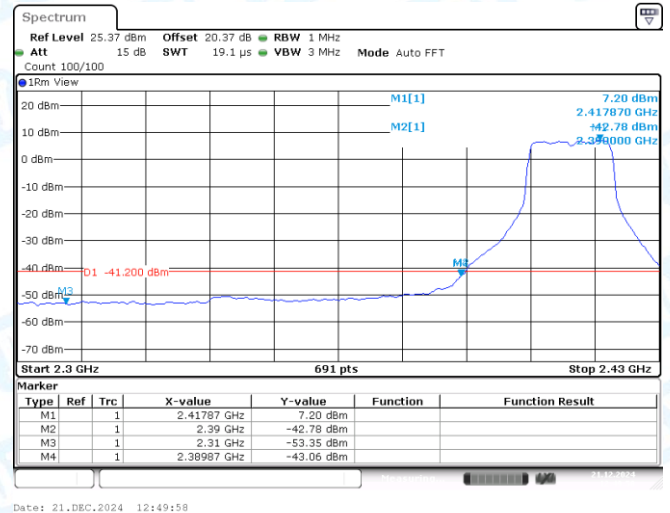
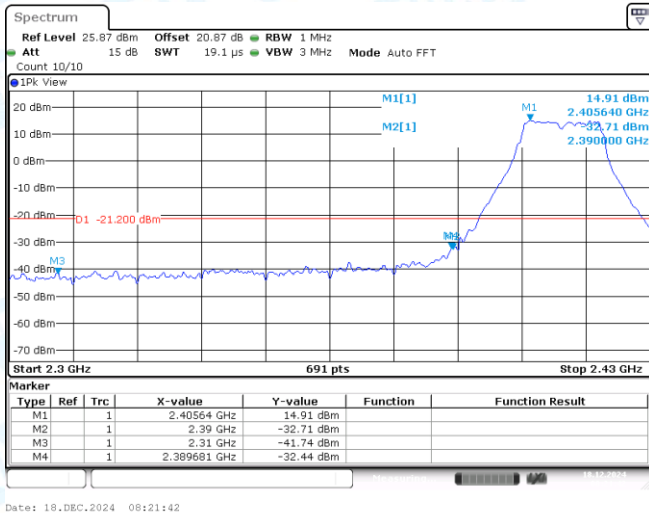
8.2 Test Graphs



11B-Ant1-2412-PASS

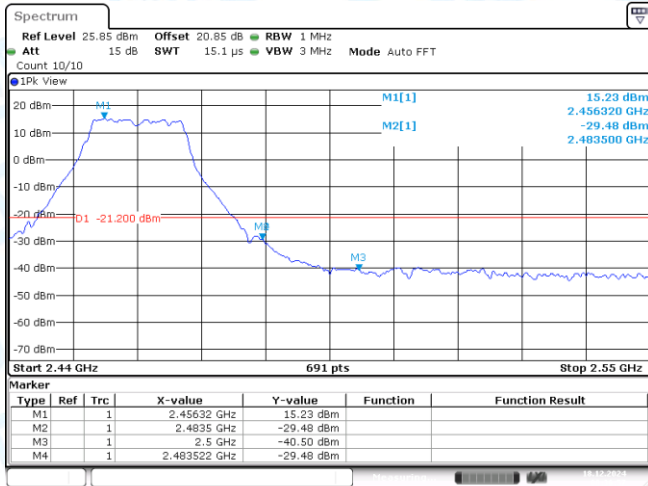


11B-Ant1-2462-PASS

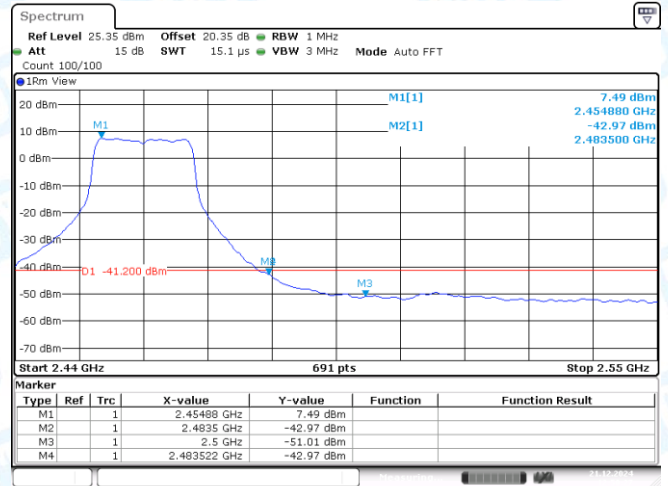


11G-Ant1-2412-PASS

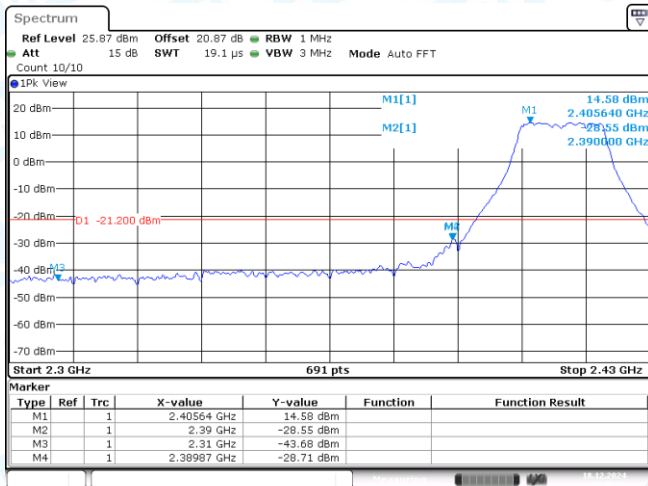
11G-Ant1-2412-PASS



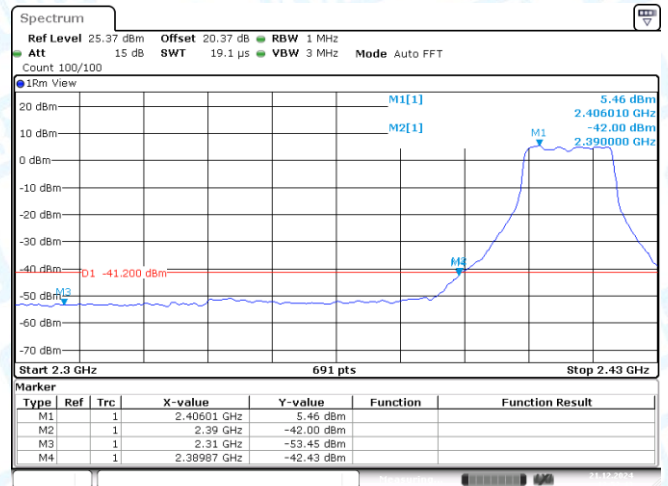
11G-Ant1-2462-PASS



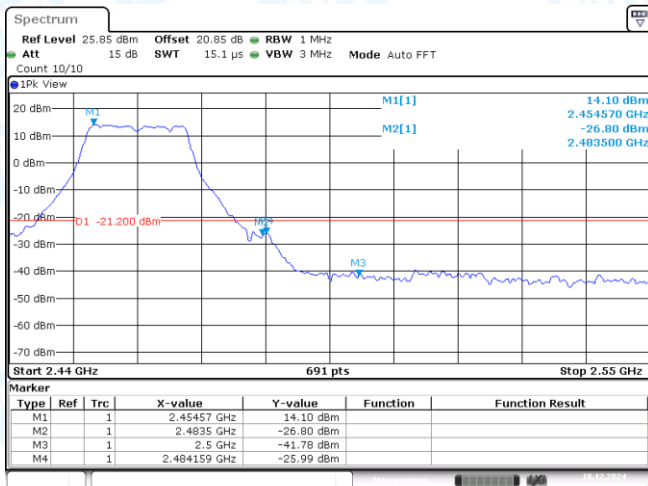
11G-Ant1-2462-PASS



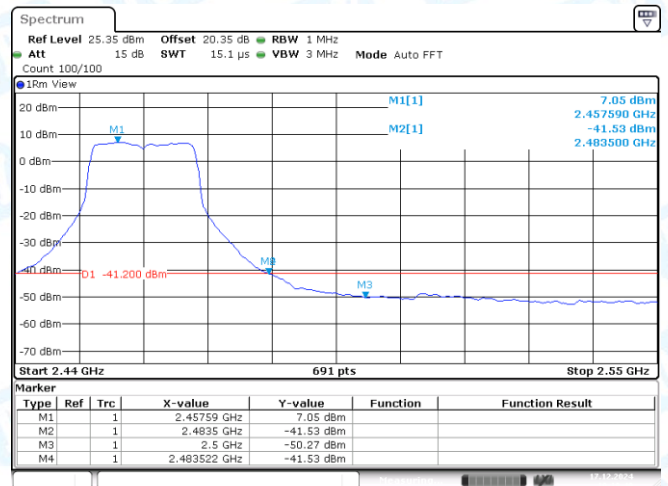
11N20SISO-Ant1-2412-PASS



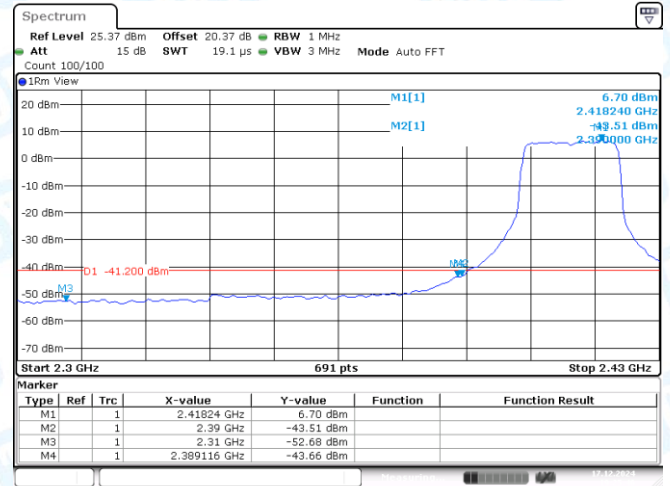
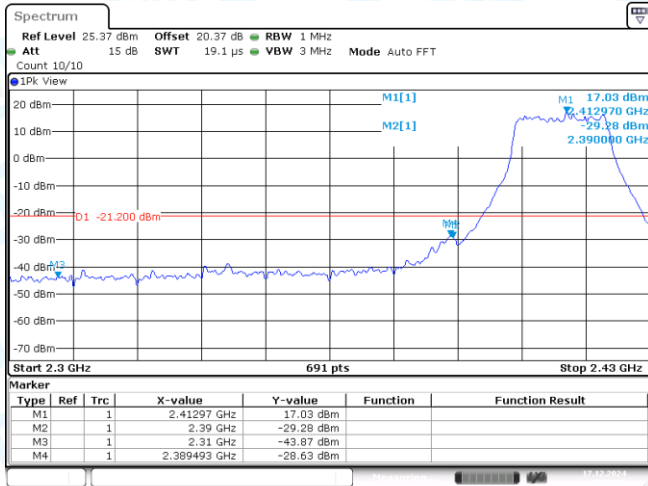
11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

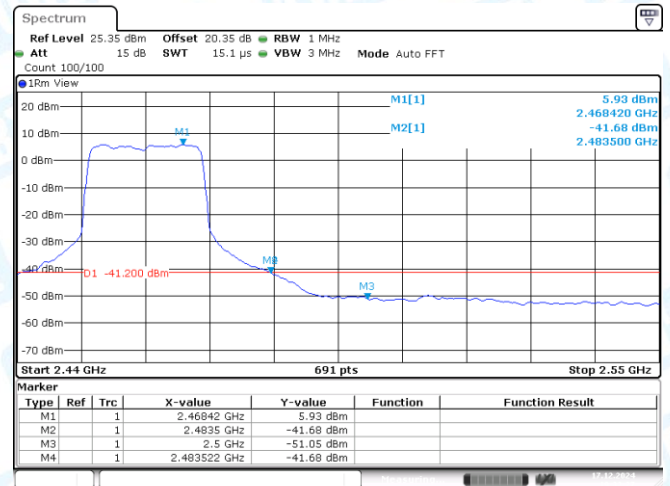
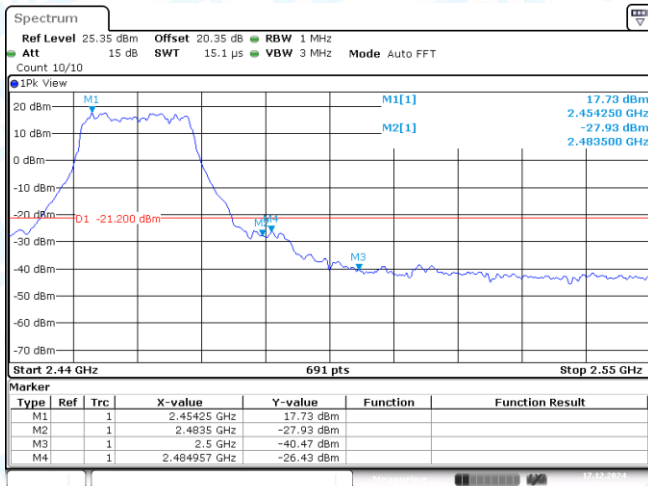


11N20SISO-Ant1-2462-PASS



11AX20SISO-Ant1-2412-PASS

11AX20SISO-Ant1-2412-PASS



11AX20SISO-Ant1-2462-PASS

11AX20SISO-Ant1-2462-PASS

-----END OF THE REPORT-----