

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

General Description of EUT	
EUT Name:	Bird Feeder Camera
Model:	MX-AIBCAM1
Sample ID:	HC-C-202608-0506-01-01
Environmental Conditions	
Ambient Temperature:	24.6℃
Ambient Humidity:	50%RH
Test Power Supply:	DC 5V
Test Engineer:	Gold Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202608-0506-1	

Contents

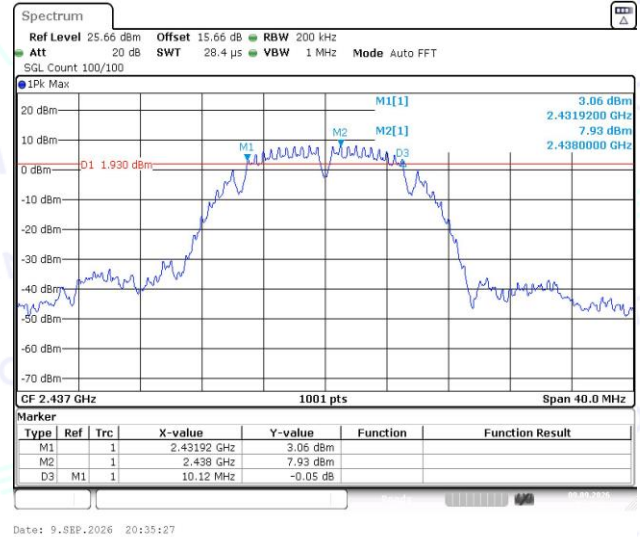
1: DTS Bandwidth	3
1.1 Test Result	3
1.2 Test Graphs	4
2: Occupied Channel Bandwidth	6
2.1 Test Result	6
2.2 Test Graphs	7
3: Maximum conducted output power	9
3.1 Test Result Average	9
4: Maximum power spectral density	10
4.1 Test Result	10
4.2 Test Graphs	11
5: Band edge measurements	13
5.1 Test Result	13
5.2 Test Graphs	14
6: Conducted Spurious Emission	15
6.1 Test Result	15
6.2 Test Graphs	16
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	25

1: DTS Bandwidth

1.1 Test Result

TestMode	Ant.	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.12	2406.92	2417.04	0.5	PASS
11B	Ant1	2437	10.12	2431.92	2442.04	0.5	PASS
11B	Ant1	2462	10.12	2456.92	2467.04	0.5	PASS
11G	Ant1	2412	16.44	2403.76	2420.20	0.5	PASS
11G	Ant1	2437	16.44	2428.76	2445.20	0.5	PASS
11G	Ant1	2462	16.40	2453.80	2470.20	0.5	PASS
11N20SISO	Ant1	2412	17.64	2403.16	2420.80	0.5	PASS
11N20SISO	Ant1	2437	17.64	2428.16	2445.80	0.5	PASS
11N20SISO	Ant1	2462	17.64	2453.16	2470.80	0.5	PASS

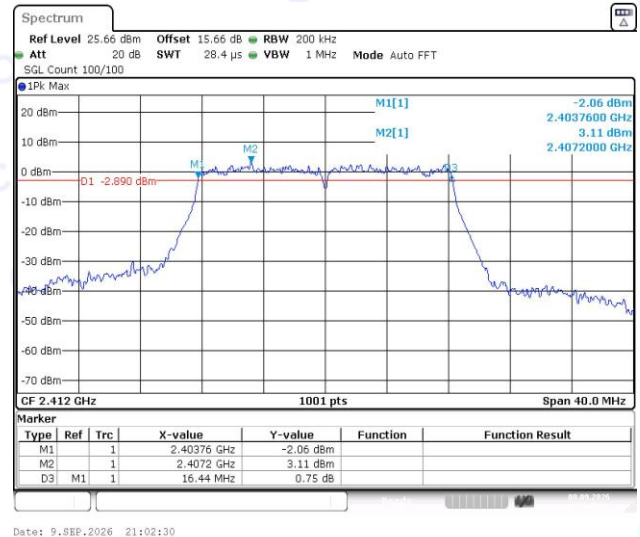
1.2 Test Graphs



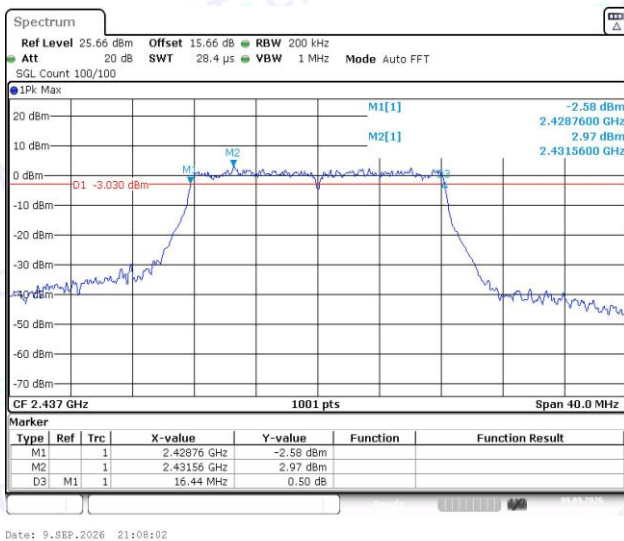
11B-Ant1-2412-PASS



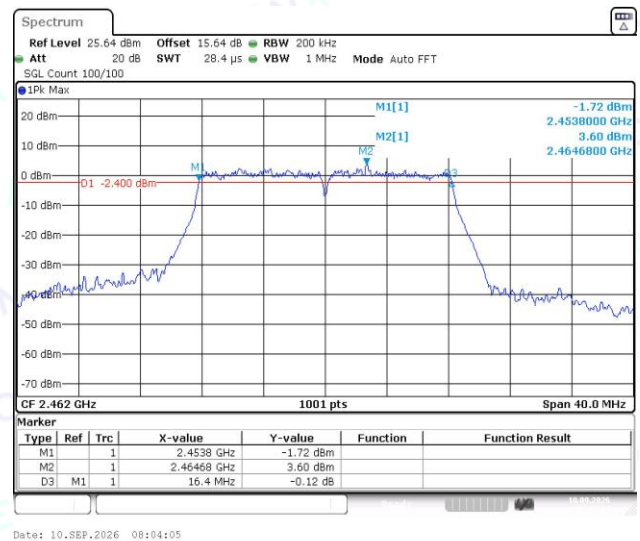
11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

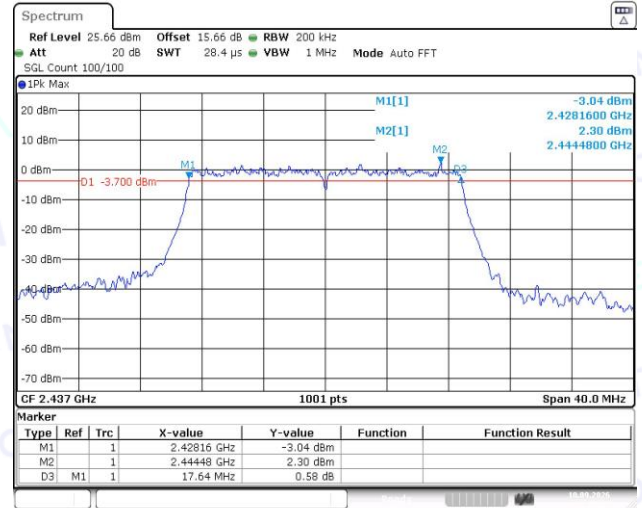
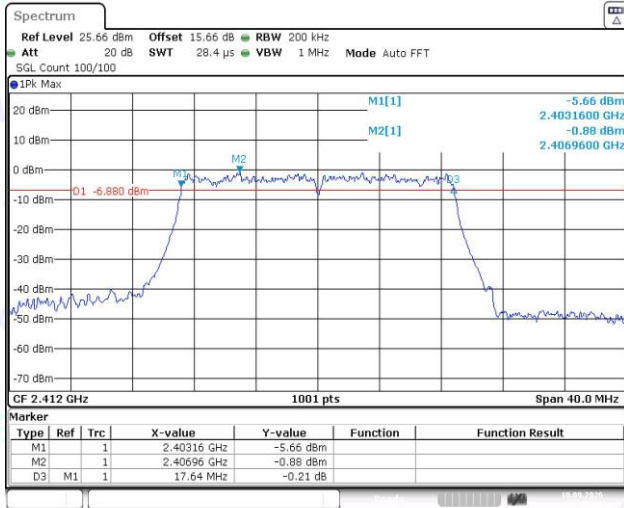


11G-Ant1-2412-PASS



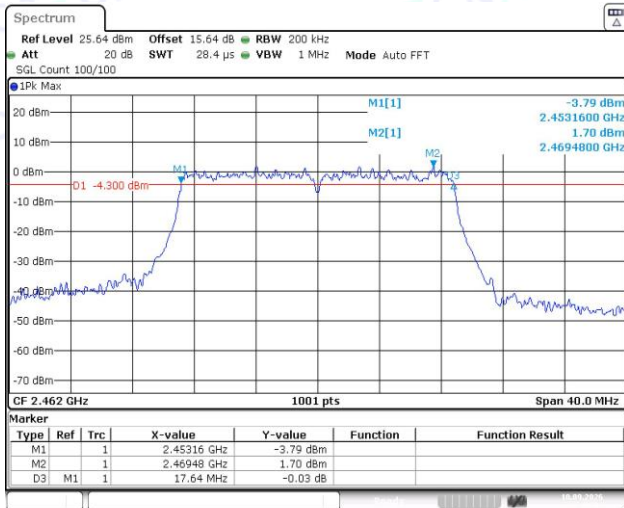
11G-Ant1-2437-PASS

11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS

11N20SISO-Ant1-2437-PASS



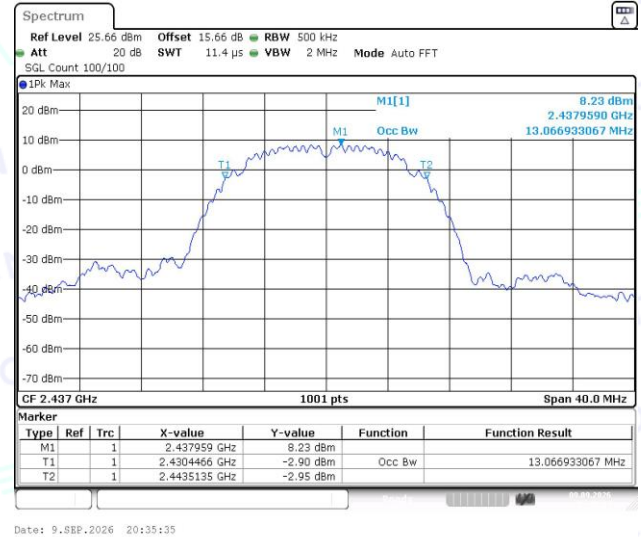
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2: Occupied Channel Bandwidth

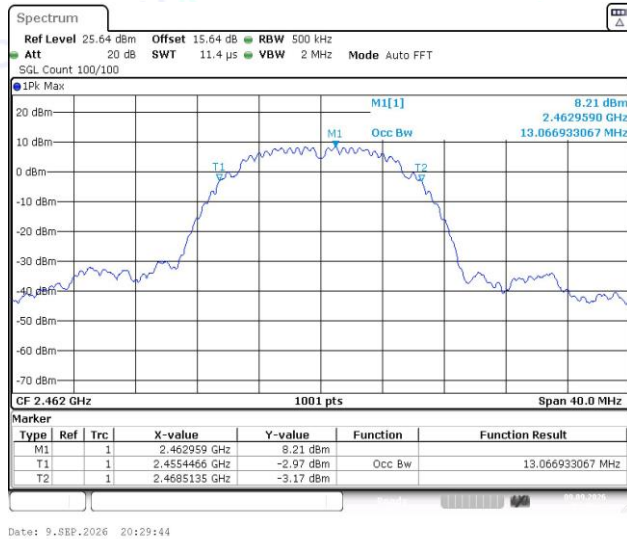
2.1 Test Result

TestMode	Ant.	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.067	2405.4466	2418.5135	---	---
11B	Ant1	2437	13.067	2430.4466	2443.5135	---	---
11B	Ant1	2462	13.067	2455.4466	2468.5135	---	---
11G	Ant1	2412	16.783	2403.6084	2420.3916	---	---
11G	Ant1	2437	16.823	2428.4486	2445.2717	---	---
11G	Ant1	2462	16.783	2453.5684	2470.3516	---	---
11N20SISO	Ant1	2412	17.822	2403.0889	2420.9111	---	---
11N20SISO	Ant1	2437	17.782	2428.0889	2445.8711	---	---
11N20SISO	Ant1	2462	17.782	2453.0889	2470.8711	---	---

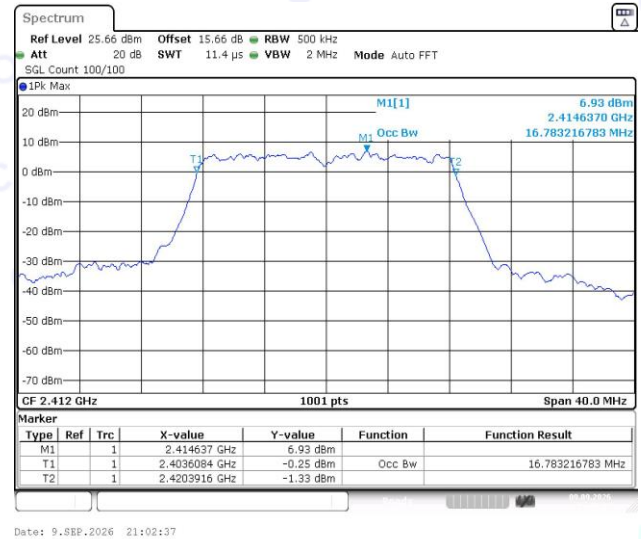
2.2 Test Graphs



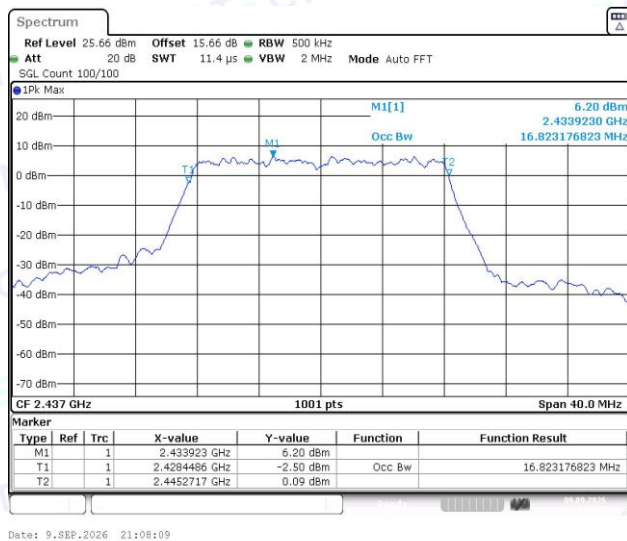
11B-Ant1-2412



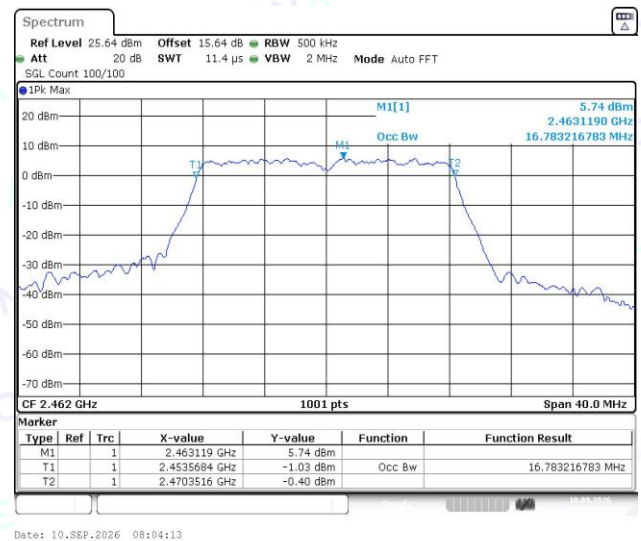
11B-Ant1-2437



11B-Ant1-2462

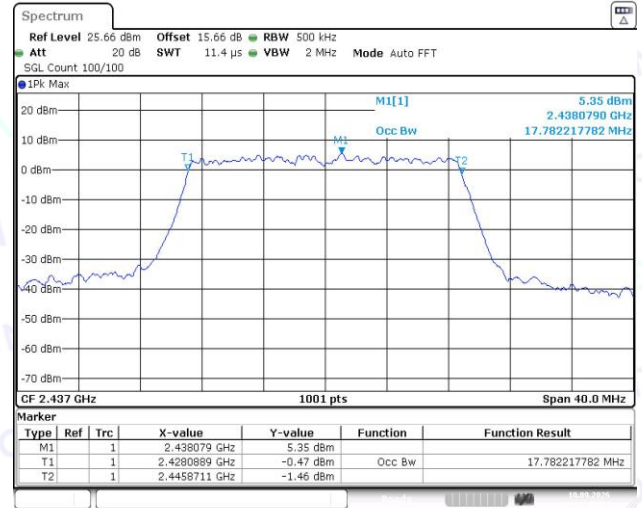
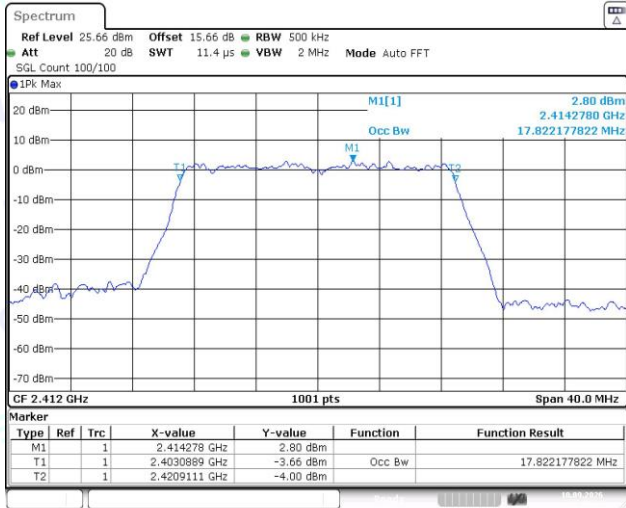


11G-Ant1-2412



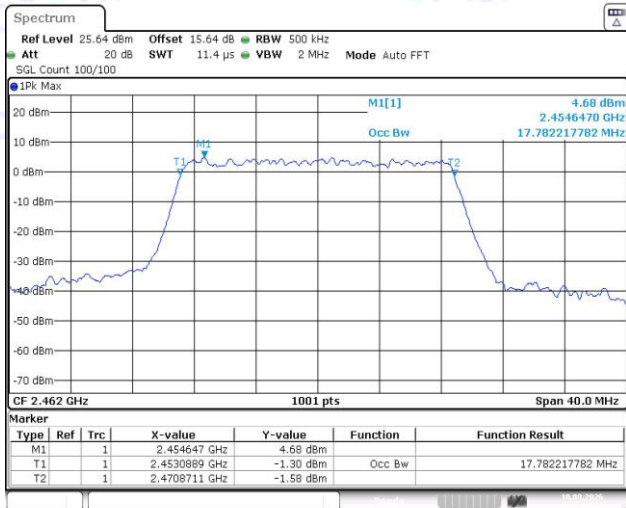
11G-Ant1-2437

11G-Ant1-2462



11N20SISO-Ant1-2412

11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

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	15.87	0.00	15.87	≤30.00	PASS
11B	Ant1	2437	15.65	0.00	15.65	≤30.00	PASS
11B	Ant1	2462	15.76	0.00	15.76	≤30.00	PASS
11G	Ant1	2412	13.91	0.05	13.96	≤30.00	PASS
11G	Ant1	2437	13.49	0.06	13.55	≤30.00	PASS
11G	Ant1	2462	13.51	0.06	13.57	≤30.00	PASS
11N20SISO	Ant1	2412	10.58	0.05	10.63	≤30.00	PASS
11N20SISO	Ant1	2437	12.99	0.07	13.06	≤30.00	PASS
11N20SISO	Ant1	2462	12.87	0.05	12.92	≤30.00	PASS

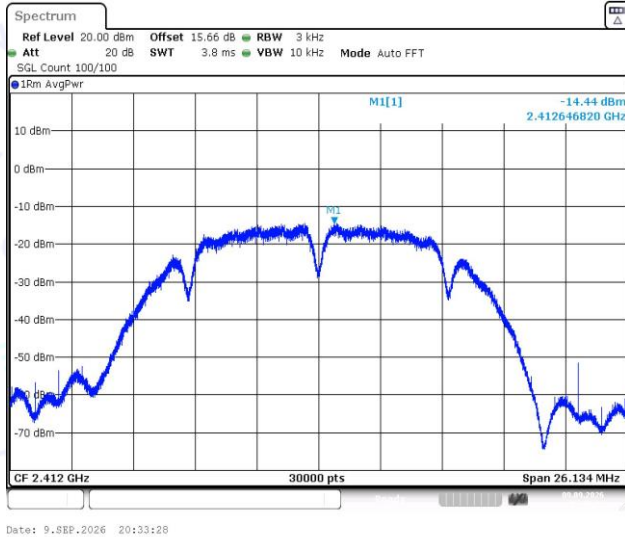
4: Maximum power spectral density

4.1 Test Result

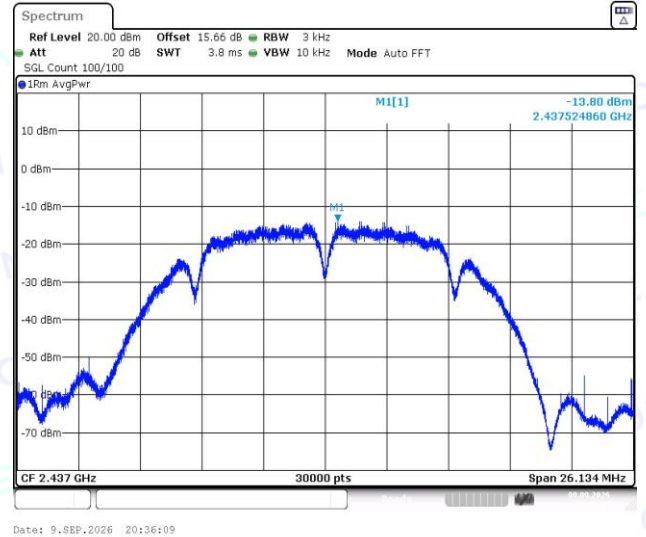
TestMode	Ant.	Frequency[MHz]	RawData [dBm/3kHz]	DC Factor	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-14.44	0.00	-14.44	≤8.00	PASS
11B	Ant1	2437	-13.8	0.00	-13.80	≤8.00	PASS
11B	Ant1	2462	-13.76	0.00	-13.76	≤8.00	PASS
11G	Ant1	2412	-20.19	0.05	-20.14	≤8.00	PASS
11G	Ant1	2437	-20.31	0.06	-20.25	≤8.00	PASS
11G	Ant1	2462	-20.9	0.06	-20.84	≤8.00	PASS
11N20SISO	Ant1	2412	-23.98	0.05	-23.93	≤8.00	PASS
11N20SISO	Ant1	2437	-21.57	0.07	-21.50	≤8.00	PASS
11N20SISO	Ant1	2462	-21.82	0.05	-21.77	≤8.00	PASS

Note: RF Conducted test Offset= cable loss+ Attenuator

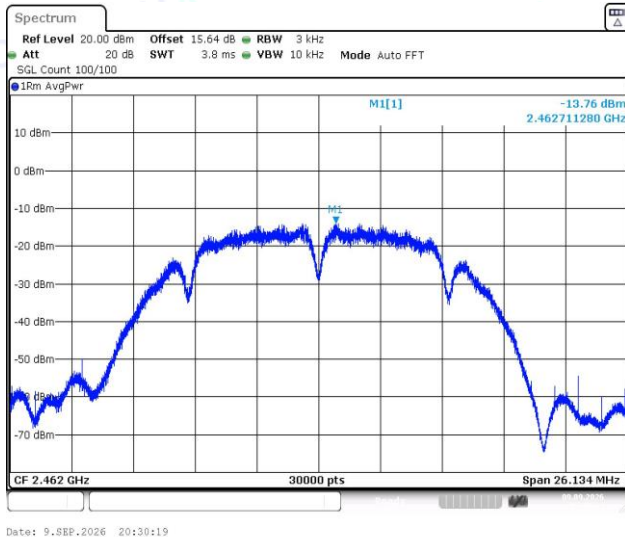
4.2 Test Graphs



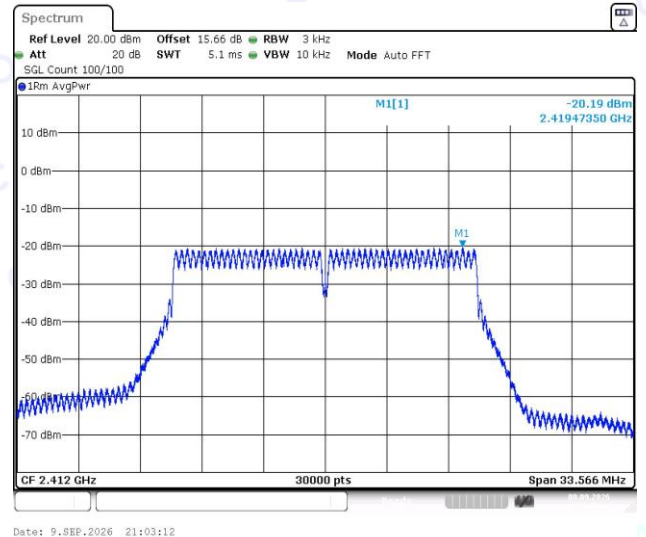
11B-Ant1-2412-PASS



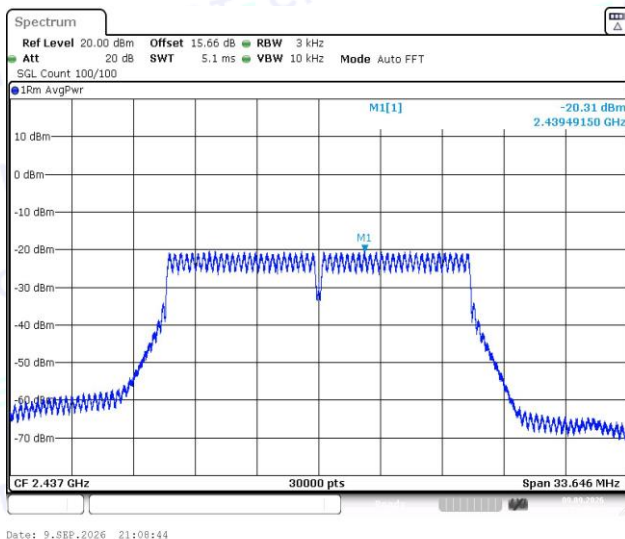
11B-Ant1-2437-PASS



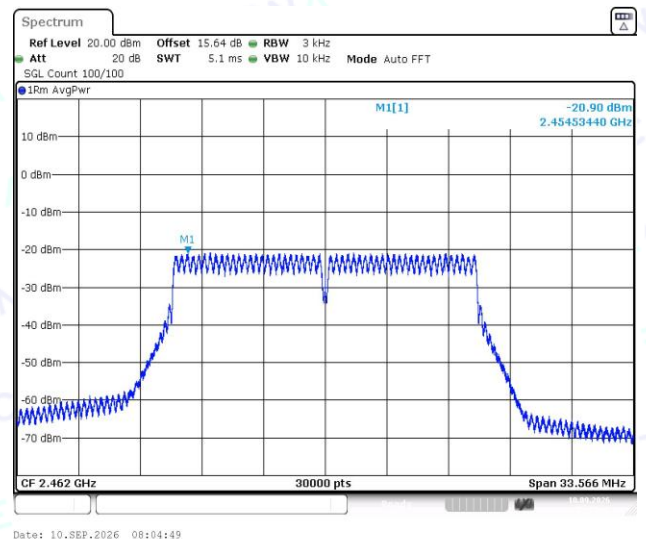
11B-Ant1-2462-PASS



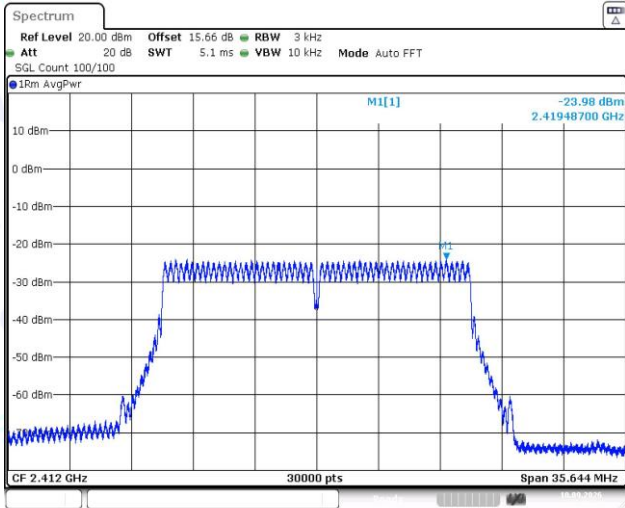
11G-Ant1-2412-PASS



11G-Ant1-2437-PASS

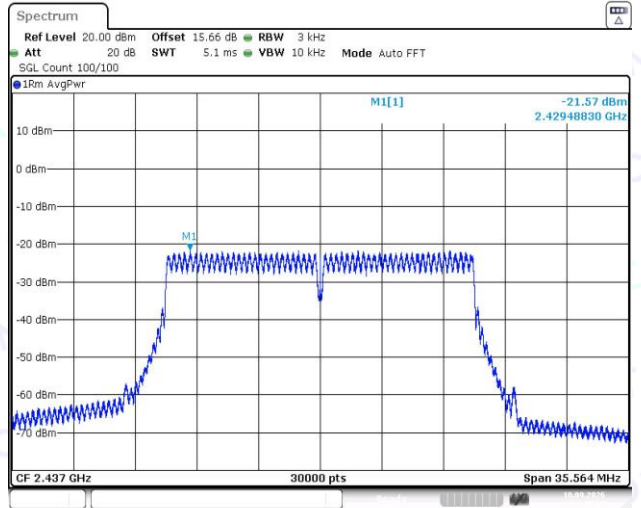


11G-Ant1-2462-PASS



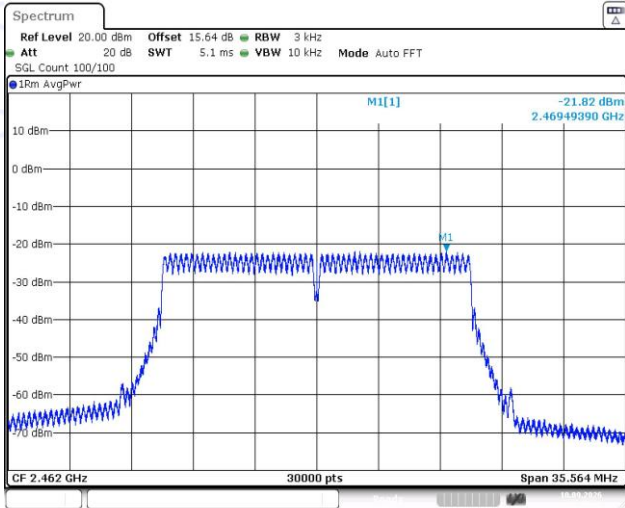
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11N20SISO-Ant1-2412-PASS



Date: 10.SEP.2026 18:26:10

11N20SISO-Ant1-2437-PASS



Date: 10.SEP.2026 18:28:40

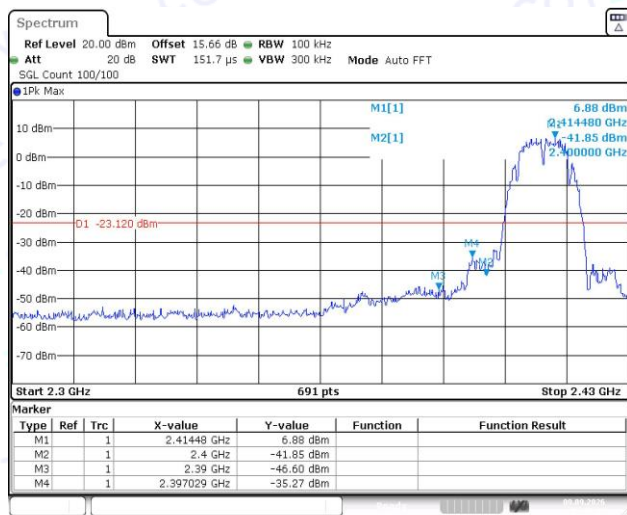
11N20SISO-Ant1-2462-PASS

5: Band edge measurements

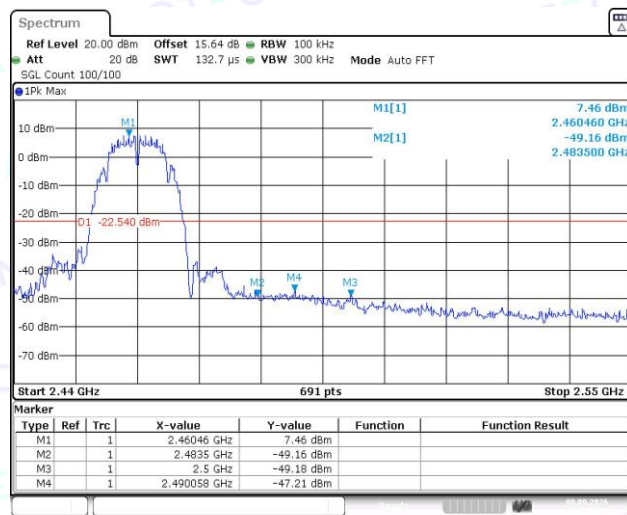
5.1 Test Result

TestMode	Ant.	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.88	-35.27	≤-23.12	PASS
11B	Ant1	High	2462	7.46	-47.21	≤-22.54	PASS
11G	Ant1	Low	2412	-0.14	-36.19	≤-30.14	PASS
11G	Ant1	High	2462	-0.73	-48.55	≤-30.73	PASS
11N20SISO	Ant1	Low	2412	-2.53	-43.88	≤-32.53	PASS
11N20SISO	Ant1	High	2462	-0.40	-47.04	≤-30.4	PASS

5.2 Test Graphs



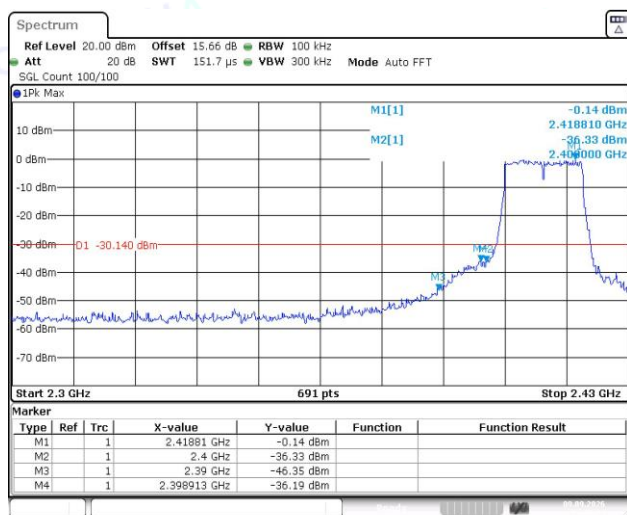
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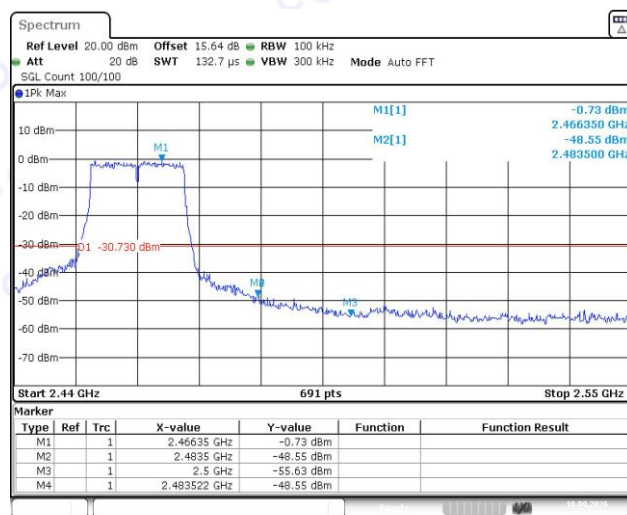
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11B-Ant1-2412-PASS

11B-Ant1-2462-PASS



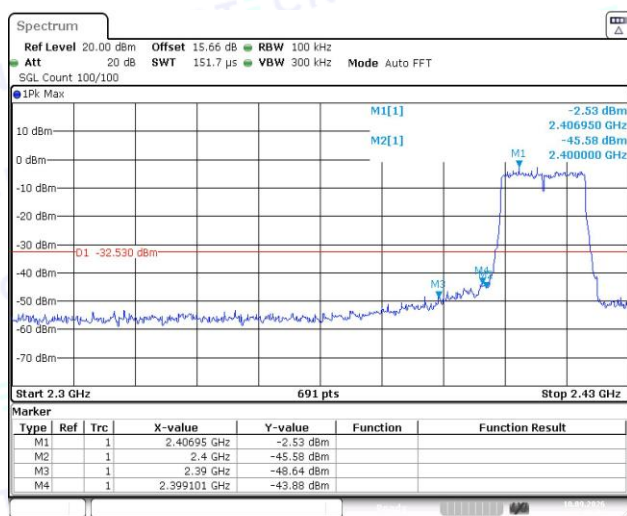
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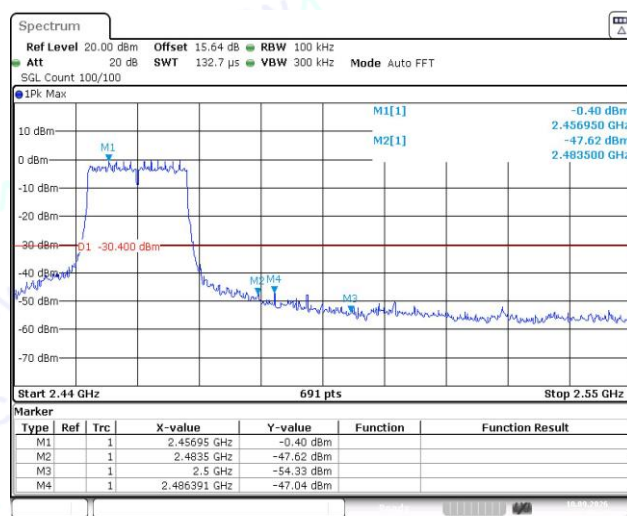
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11G-Ant1-2412-PASS

11G-Ant1-2462-PASS



Date: 10.SEP.2026 18:22:58



Date: 10.SEP.2026 18:28:49

11N20SISO-Ant1-2412-PASS

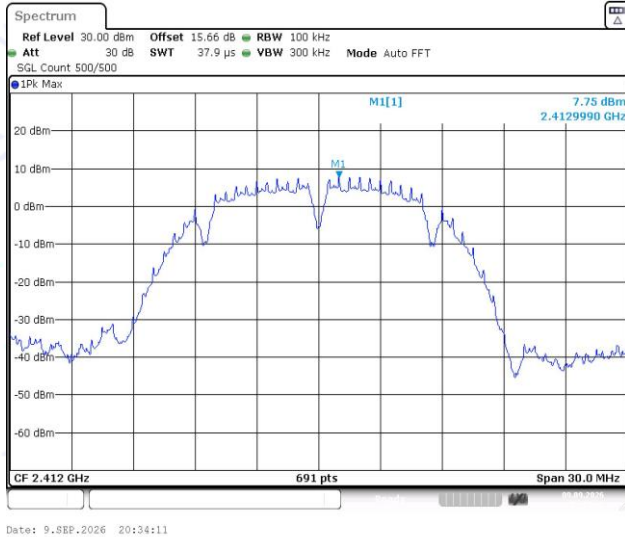
11N20SISO-Ant1-2462-PASS

6: Conducted Spurious Emission

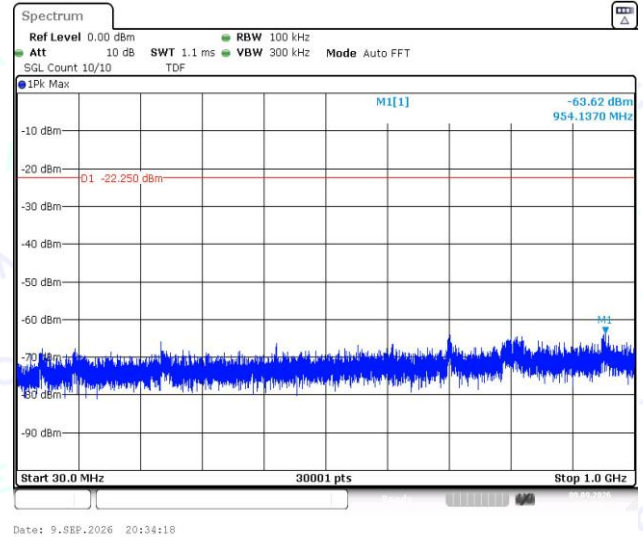
6.1 Test Result

TestMode	Ant.	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	7.75	7.75	---	PASS
11B	Ant1	2412	30~1000	7.75	-63.62	≤ -22.25	PASS
11B	Ant1	2412	1000~26500	7.75	-36.76	≤ -22.25	PASS
11B	Ant1	2437	0~Reference	7.93	7.93	---	PASS
11B	Ant1	2437	30~1000	7.93	-62.48	≤ -22.07	PASS
11B	Ant1	2437	1000~26500	7.93	-37.28	≤ -22.07	PASS
11B	Ant1	2462	0~Reference	7.39	7.39	---	PASS
11B	Ant1	2462	30~1000	7.39	-62.52	≤ -22.61	PASS
11B	Ant1	2462	1000~26500	7.39	-36.71	≤ -22.61	PASS
11G	Ant1	2412	0~Reference	2.53	2.53	---	PASS
11G	Ant1	2412	30~1000	2.53	-63.11	≤ -27.47	PASS
11G	Ant1	2412	1000~26500	2.53	-35.83	≤ -27.47	PASS
11G	Ant1	2437	0~Reference	4.11	4.11	---	PASS
11G	Ant1	2437	30~1000	4.11	-63.19	≤ -25.89	PASS
11G	Ant1	2437	1000~26500	4.11	-36.77	≤ -25.89	PASS
11G	Ant1	2462	0~Reference	1.88	1.88	---	PASS
11G	Ant1	2462	30~1000	1.88	-61.4	≤ -28.12	PASS
11G	Ant1	2462	1000~26500	1.88	-36.91	≤ -28.12	PASS
11N20SISO	Ant1	2412	0~Reference	-3.42	-3.42	---	PASS
11N20SISO	Ant1	2412	30~1000	-3.42	-63.55	≤ -33.42	PASS
11N20SISO	Ant1	2412	1000~26500	-3.42	-37.2	≤ -33.42	PASS
11N20SISO	Ant1	2437	0~Reference	1.17	1.17	---	PASS
11N20SISO	Ant1	2437	30~1000	1.17	-63.4	≤ -28.83	PASS
11N20SISO	Ant1	2437	1000~26500	1.17	-37.33	≤ -28.83	PASS
11N20SISO	Ant1	2462	0~Reference	1.10	1.10	---	PASS
11N20SISO	Ant1	2462	30~1000	1.10	-63.01	≤ -28.9	PASS
11N20SISO	Ant1	2462	1000~26500	1.10	-36.79	≤ -28.9	PASS

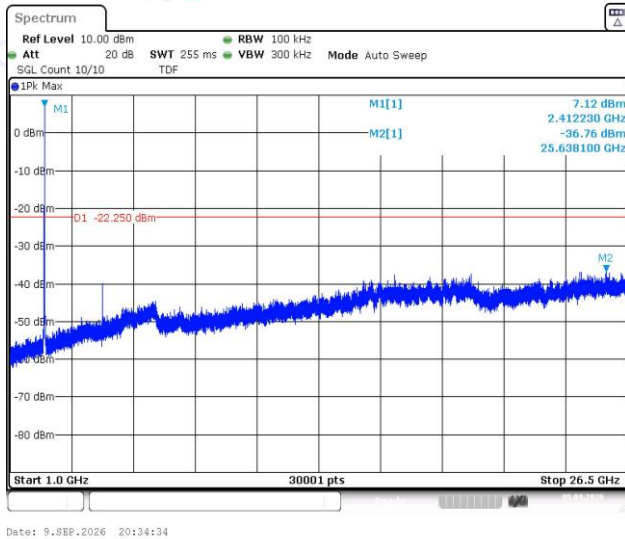
6.2 Test Graphs



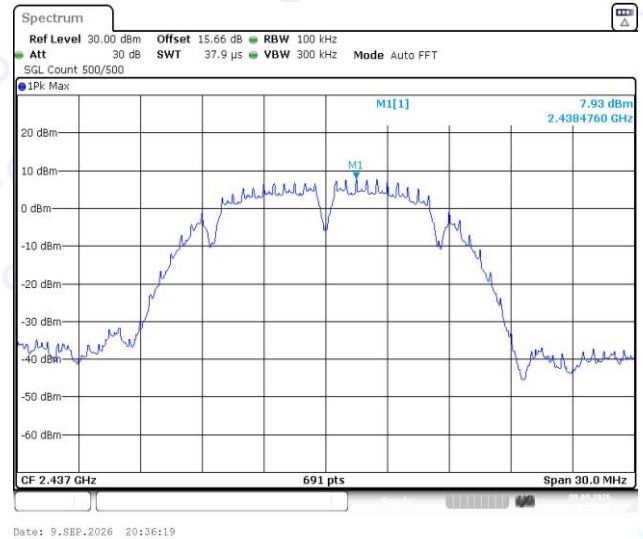
11B-Ant1-2412-0~Reference-PASS



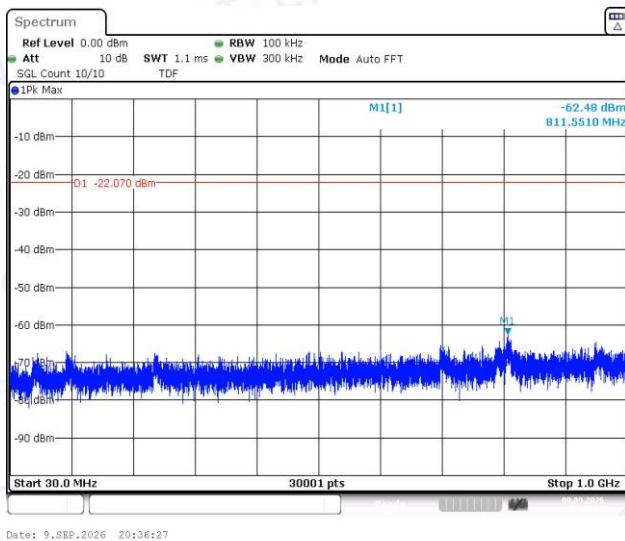
11B-Ant1-2412-30~1000-PASS



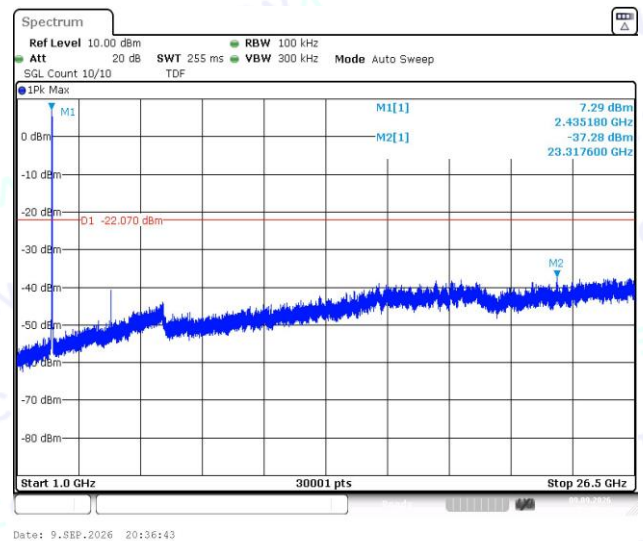
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11B-Ant1-2437-0~Reference-PASS



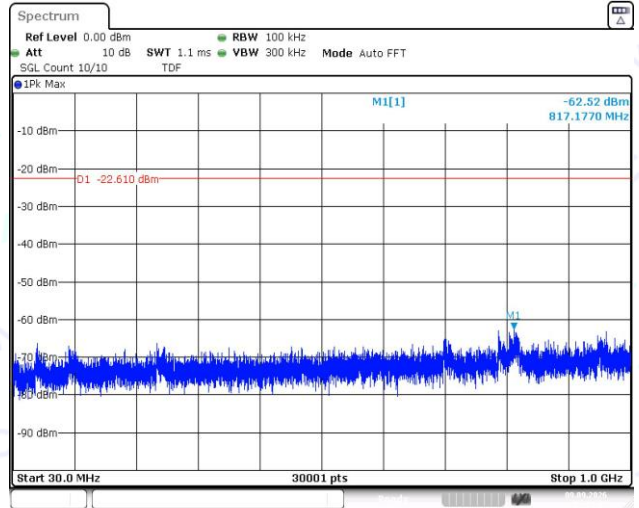
11B-Ant1-2437-30~1000-PASS



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



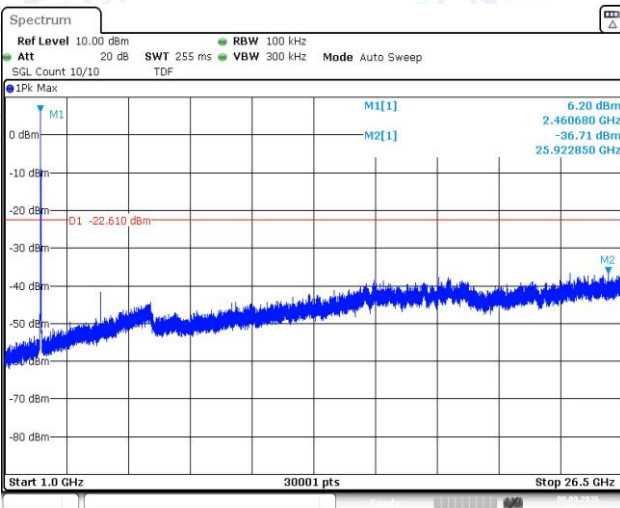
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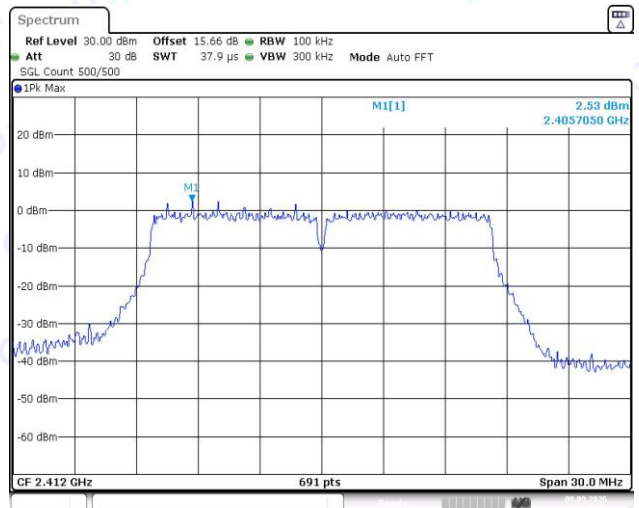
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11B-Ant1-2462-0~Reference-PASS

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



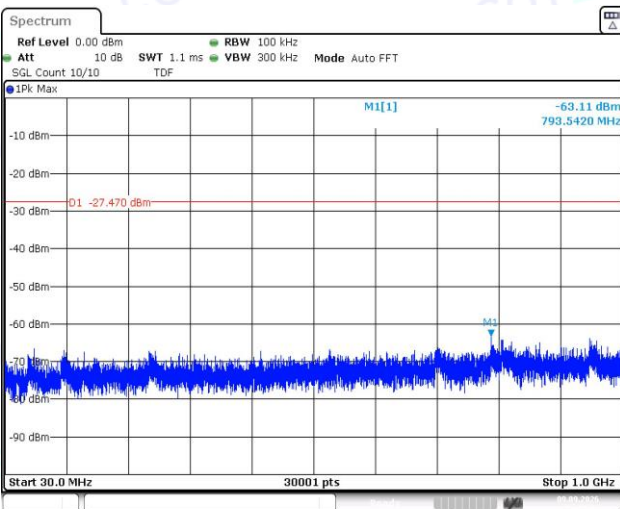
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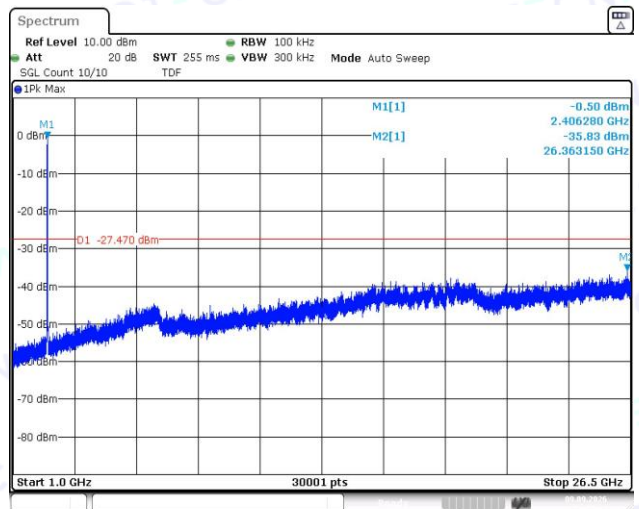
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11B-Ant1-2462-1000~26500-PASS

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



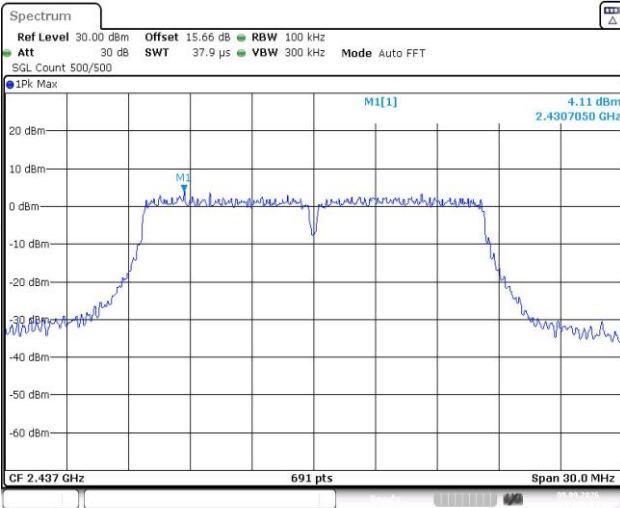
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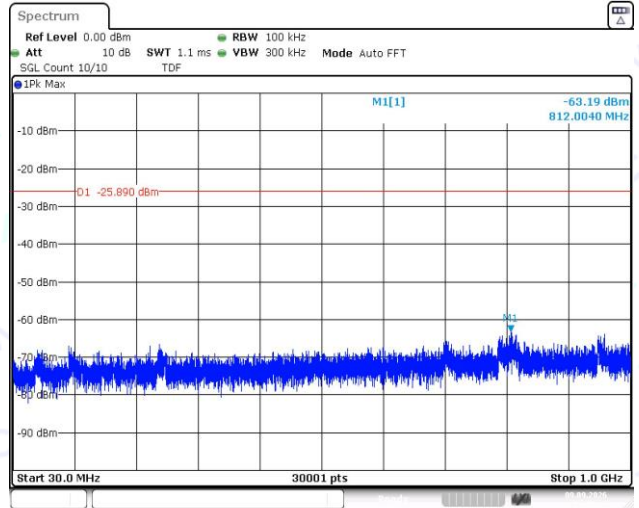
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11G-Ant1-2412-30~1000-PASS

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



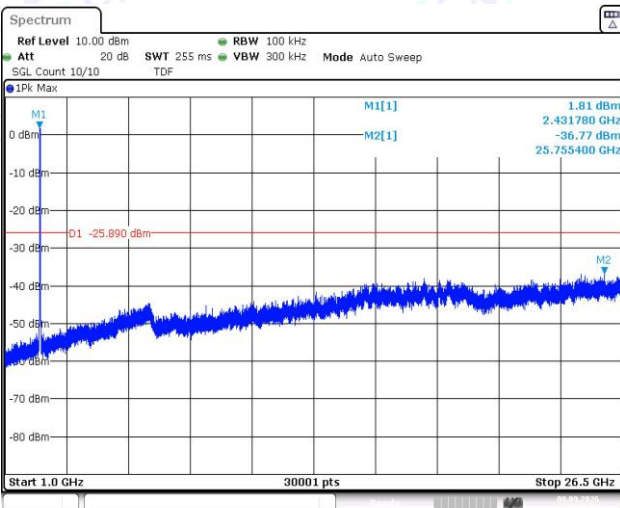
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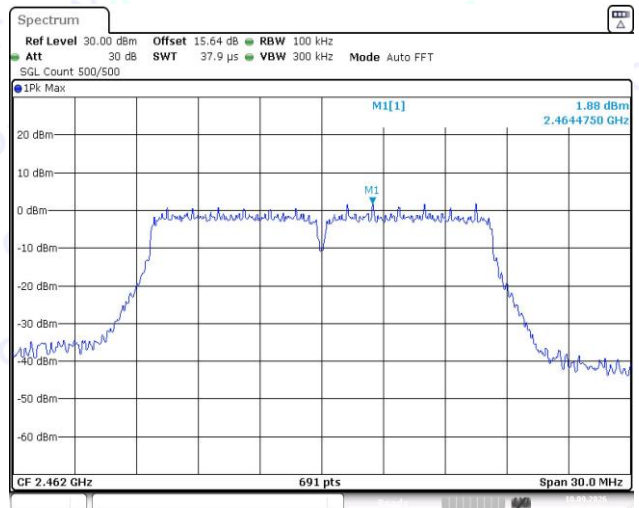
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11G-Ant1-2437-0~Reference-PASS

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



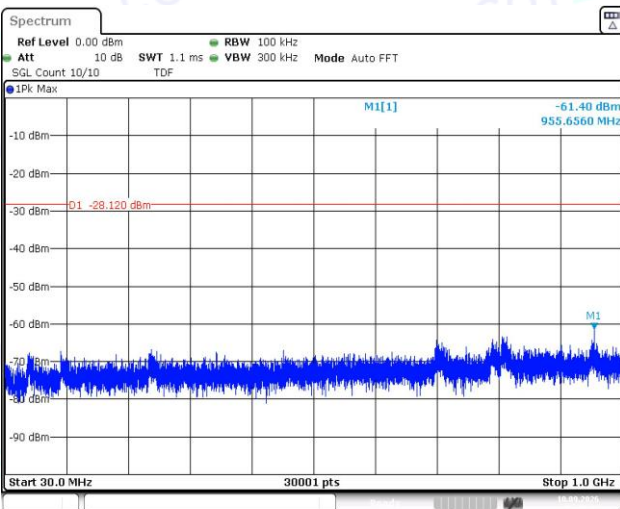
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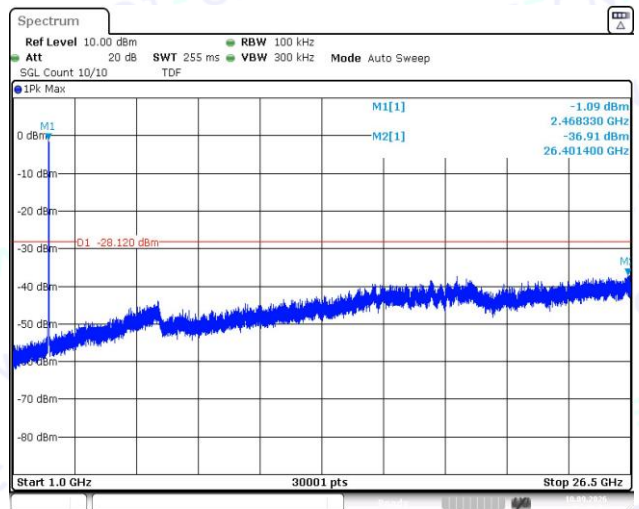
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11G-Ant1-2437-1000~26500-PASS

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



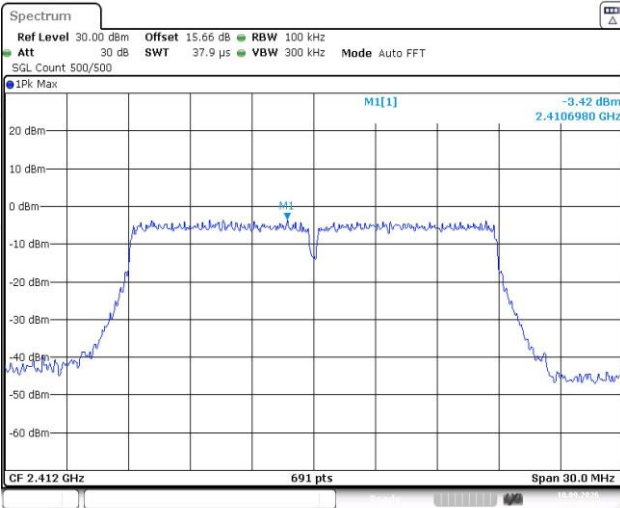
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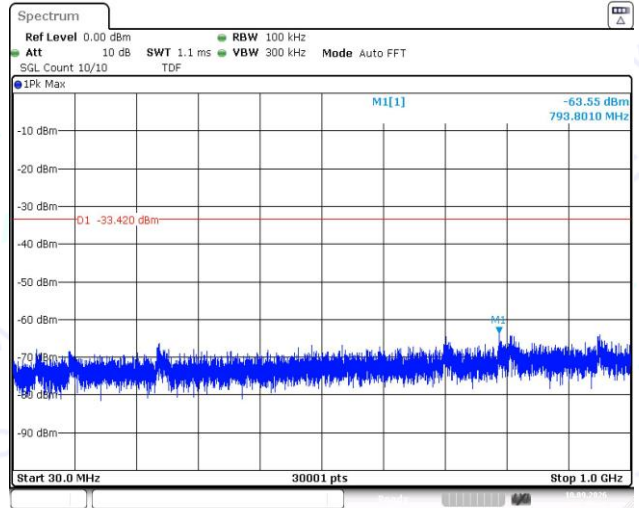
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11G-Ant1-2462-30~1000-PASS

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

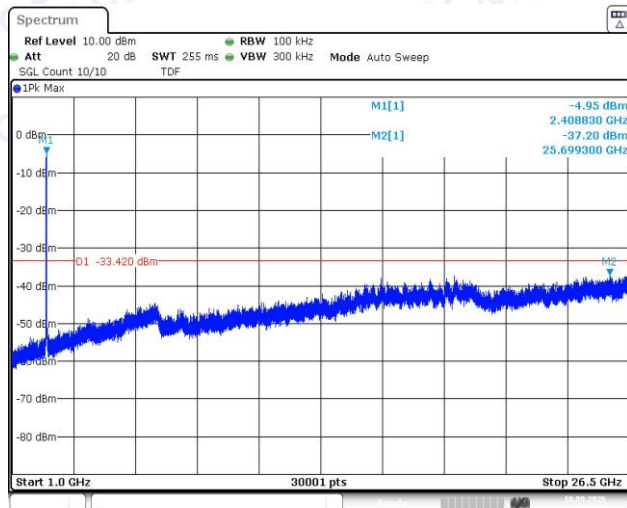


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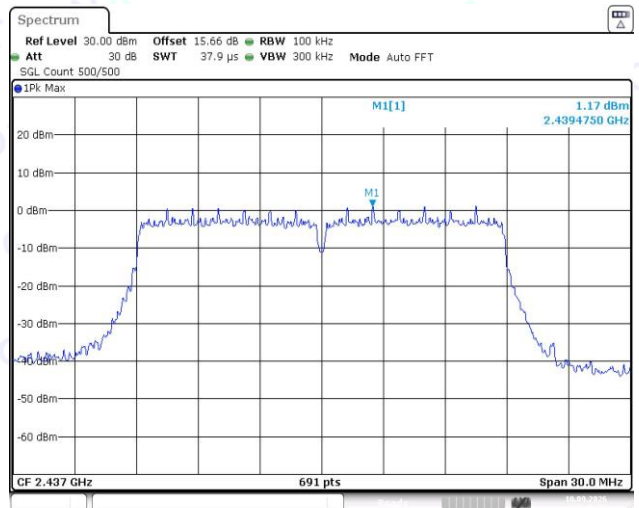


Date: 10.SEP.2026 18:23:40

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

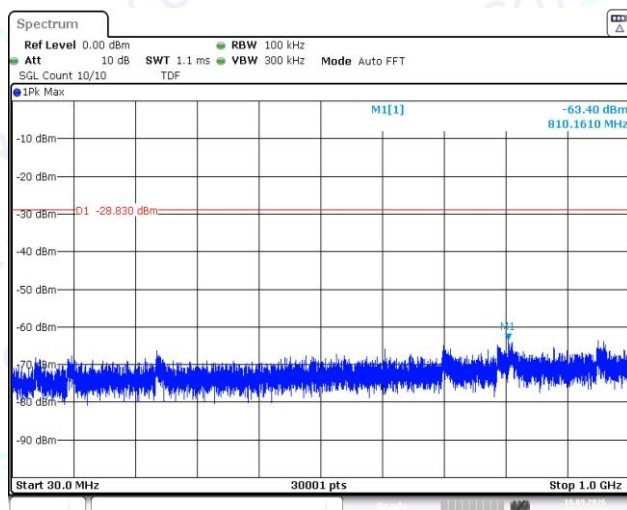


Date: 10.SEP.2026 18:23:56

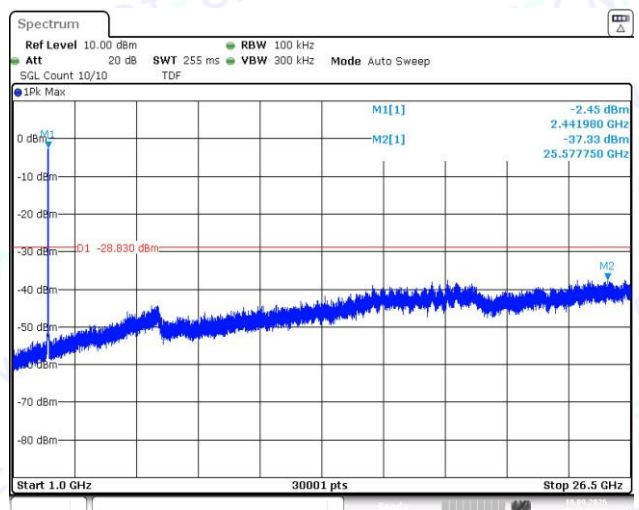


Date: 10.SEP.2026 18:26:20

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



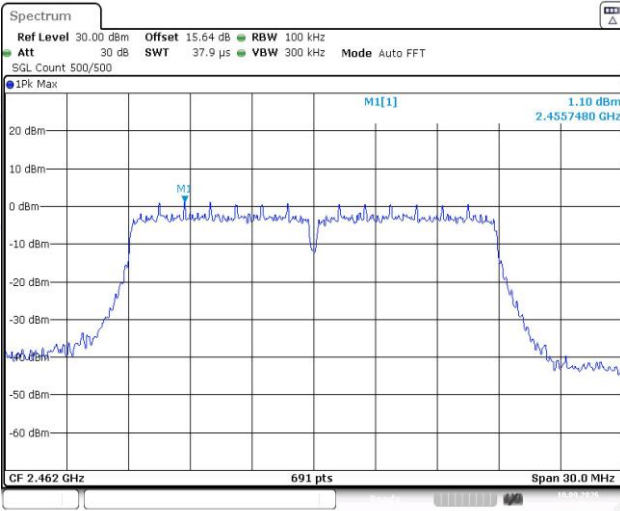
Date: 10.SEP.2026 18:26:28



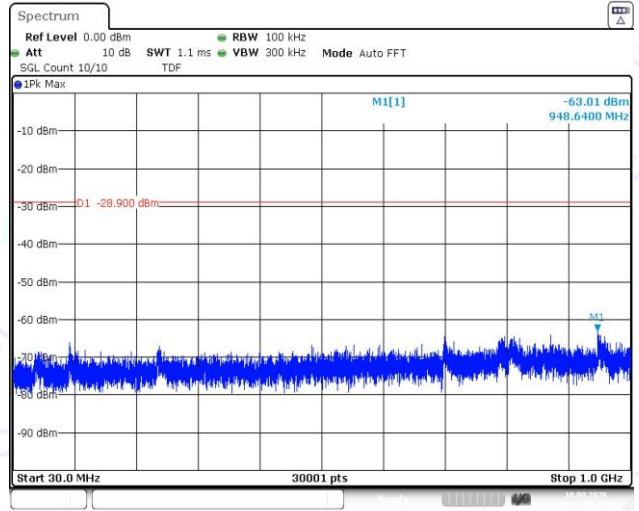
Date: 10.SEP.2026 18:26:44

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

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



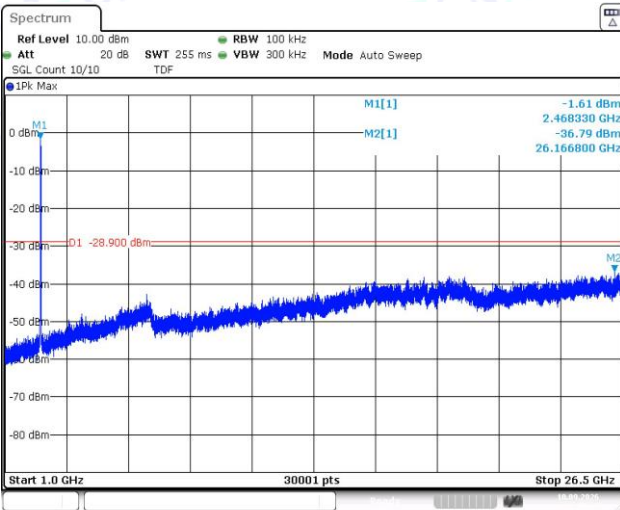
Date: 10.SEP.2026 18:29:21



Date: 10.SEP.2026 18:29:29

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

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



Date: 10.SEP.2026 18:29:45

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

7: Duty Cycle

7.1 Test Result

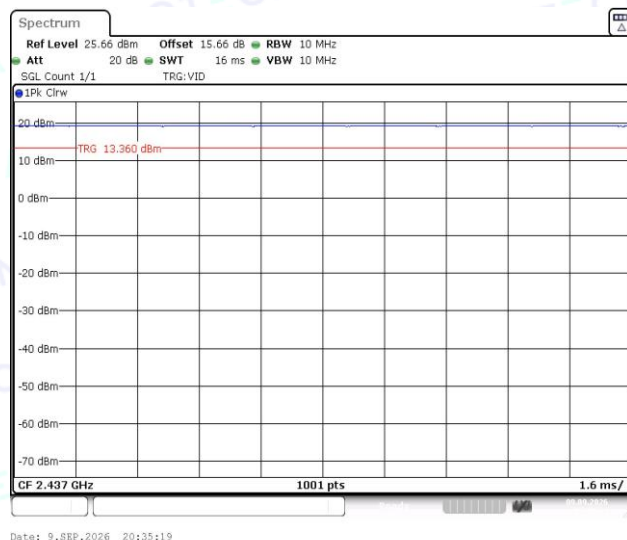
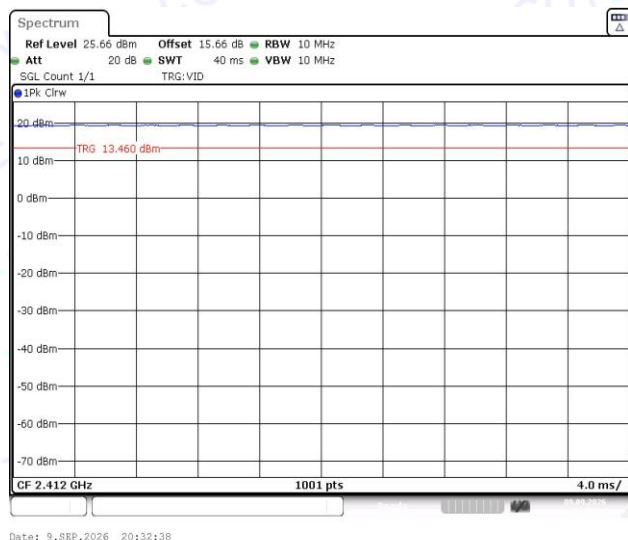
TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor	1/T [kHz]
11B	Ant1	2412	40.00	40.00	100.00	0.00	0.03
11B	Ant1	2437	16.00	16.00	100.00	0.00	0.06
11B	Ant1	2462	6.00	6.00	100.00	0.00	0.17
11G	Ant1	2412	2.73	2.76	98.91	0.05	0.37
11G	Ant1	2437	2.73	2.77	98.56	0.06	0.37
11G	Ant1	2462	2.73	2.77	98.56	0.06	0.37
11N20SISO	Ant1	2412	2.54	2.57	98.83	0.05	0.39
11N20SISO	Ant1	2437	2.54	2.58	98.45	0.07	0.39
11N20SISO	Ant1	2462	2.54	2.57	98.83	0.05	0.39

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

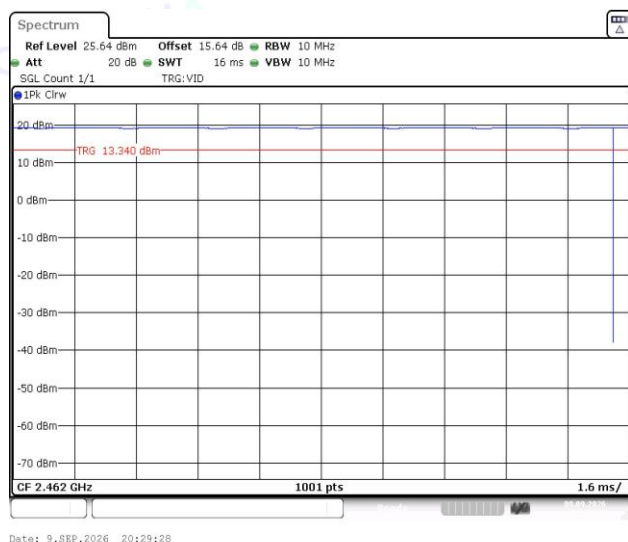
2, DC Factor= $10 \cdot \log_{10}(1/\text{Duty Cycle})$

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

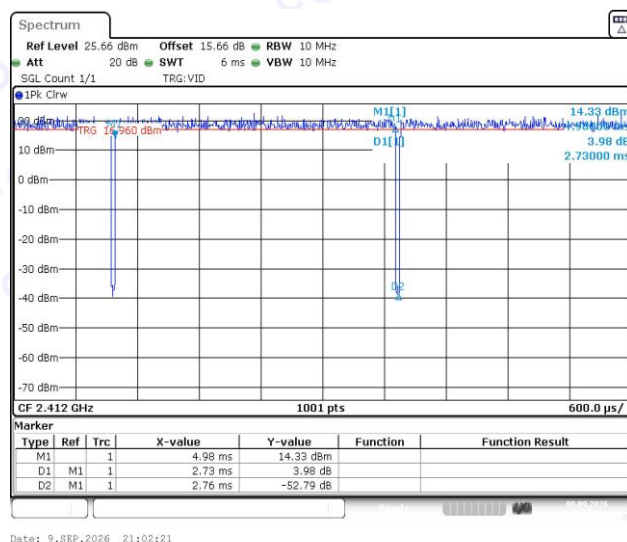
7.2 Test Graphs



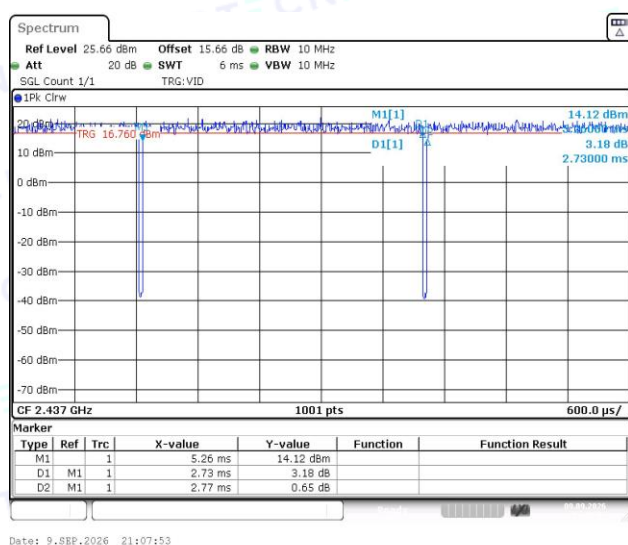
NTNV-11B-Ant1-2412



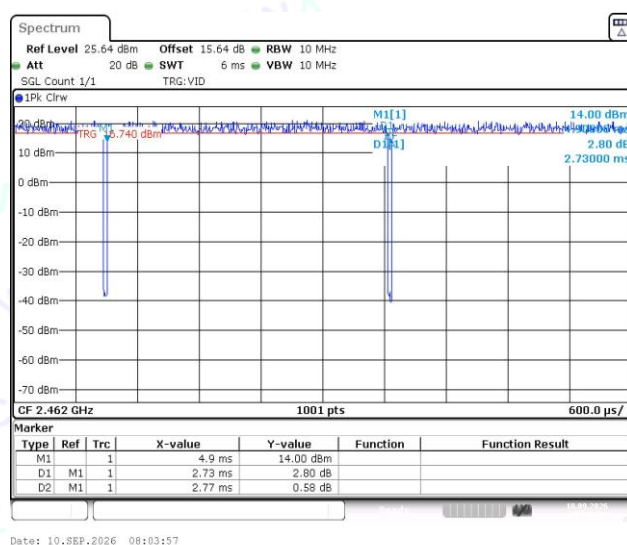
NTNV-11B-Ant1-2437



NTNV-11B-Ant1-2462

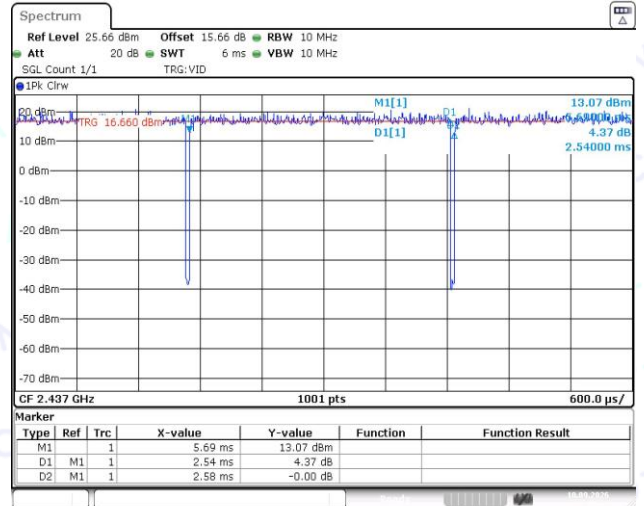
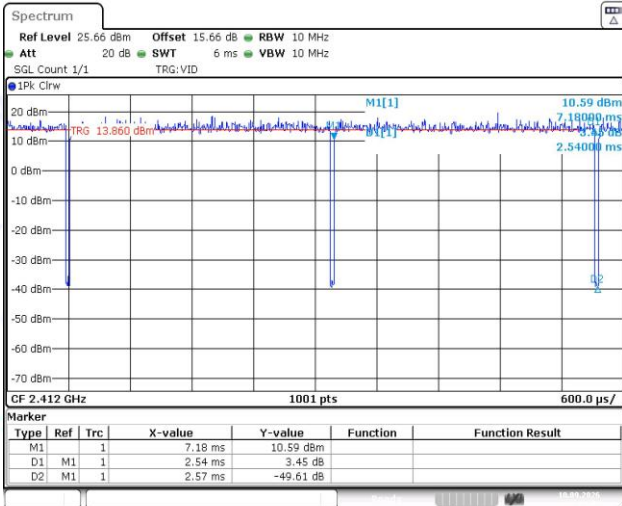


NTNV-11G-Ant1-2412



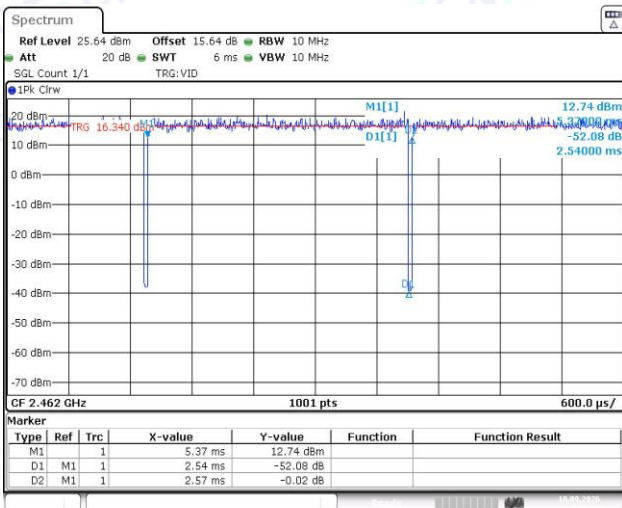
NTNV-11G-Ant1-2437

NTNV-11G-Ant1-2462



NTNV-11N20SISO-Ant1-2412

NTNV-11N20SISO-Ant1-2437



NTNV-11N20SISO-Ant1-2462

8: Emissions in Restricted Bands

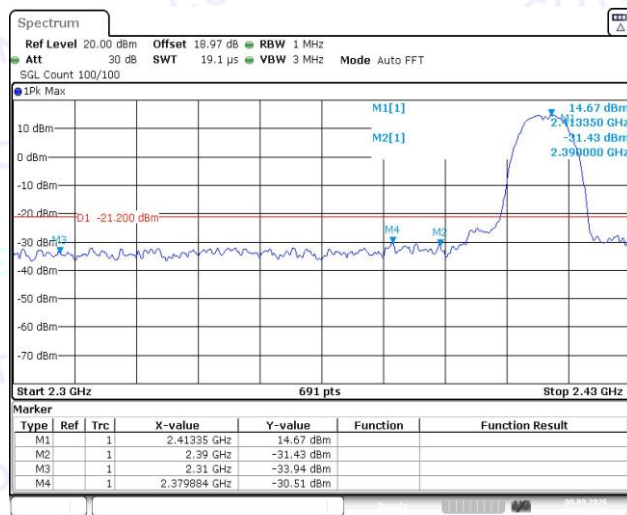
8.1 Test Result

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	-31.43	≤-21.20	63.77	≤74	PASS
11B	Ant1	Low	2412	Peak	2310.000	-33.94	≤-21.20	61.26	≤74	PASS
11B	Ant1	Low	2412	Peak	2379.884	-30.51	≤-21.20	64.69	≤74	PASS
11B	Ant1	Low	2412	AV	2390.000	-43.22	≤-41.20	51.98	≤54	PASS
11B	Ant1	Low	2412	AV	2310.000	-57.54	≤-41.20	37.66	≤54	PASS
11B	Ant1	Low	2412	AV	2385.725	-41.87	≤-41.20	53.33	≤54	PASS
11B	Ant1	High	2462	Peak	2483.500	-31.94	≤-21.20	63.26	≤74	PASS
11B	Ant1	High	2462	Peak	2500.000	-31.81	≤-21.20	63.39	≤74	PASS
11B	Ant1	High	2462	Peak	2490.377	-30.41	≤-21.20	64.79	≤74	PASS
11B	Ant1	High	2462	AV	2483.500	-43.69	≤-41.20	51.51	≤54	PASS
11B	Ant1	High	2462	AV	2500.000	-45.1	≤-41.20	50.10	≤54	PASS
11B	Ant1	High	2462	AV	2483.681	-43.68	≤-41.20	51.52	≤54	PASS
11G	Ant1	Low	2412	Peak	2390.000	-30.29	≤-21.20	64.91	≤74	PASS
11G	Ant1	Low	2412	Peak	2310.000	-34.9	≤-21.20	60.30	≤74	PASS
11G	Ant1	Low	2412	Peak	2389.870	-30.68	≤-21.20	64.52	≤74	PASS
11G	Ant1	Low	2412	AV	2390.000	-42.56	≤-41.20	52.64	≤54	PASS
11G	Ant1	Low	2412	AV	2310.000	-59.01	≤-41.20	36.19	≤54	PASS
11G	Ant1	Low	2412	AV	2389.870	-42.74	≤-41.20	52.46	≤54	PASS
11G	Ant1	High	2462	Peak	2483.500	-30.05	≤-21.20	65.15	≤74	PASS
11G	Ant1	High	2462	Peak	2500.000	-33.73	≤-21.20	61.47	≤74	PASS
11G	Ant1	High	2462	Peak	2483.522	-30.05	≤-21.20	65.15	≤74	PASS
11G	Ant1	High	2462	AV	2483.500	-46.23	≤-41.20	48.97	≤54	PASS
11G	Ant1	High	2462	AV	2500.000	-53.83	≤-41.20	41.37	≤54	PASS
11G	Ant1	High	2462	AV	2483.522	-46.23	≤-41.20	48.97	≤54	PASS
11N20SISO	Ant1	Low	2412	Peak	2390.000	-33.46	≤-21.20	61.74	≤74	PASS
11N20SISO	Ant1	Low	2412	Peak	2310.000	-33.77	≤-21.20	61.43	≤74	PASS
11N20SISO	Ant1	Low	2412	Peak	2325.435	-30.83	≤-21.20	64.37	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2390.000	-46.15	≤-41.20	49.05	≤54	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-59.58	≤-41.20	35.62	≤54	PASS
11N20SISO	Ant1	Low	2412	AV	2389.870	-46.45	≤-41.20	48.75	≤54	PASS
11N20SISO	Ant1	High	2462	Peak	2483.500	-31.85	≤-21.20	63.35	≤74	PASS
11N20SISO	Ant1	High	2462	Peak	2500.000	-33.88	≤-21.20	61.32	≤74	PASS
11N20SISO	Ant1	High	2462	Peak	2484.319	-31.18	≤-21.20	64.02	≤74	PASS
11N20SISO	Ant1	High	2462	AV	2483.500	-47.01	≤-41.20	48.19	≤54	PASS
11N20SISO	Ant1	High	2462	AV	2500.000	-52.24	≤-41.20	42.96	≤54	PASS
11N20SISO	Ant1	High	2462	AV	2485.594	-45.84	≤-41.20	49.36	≤54	PASS

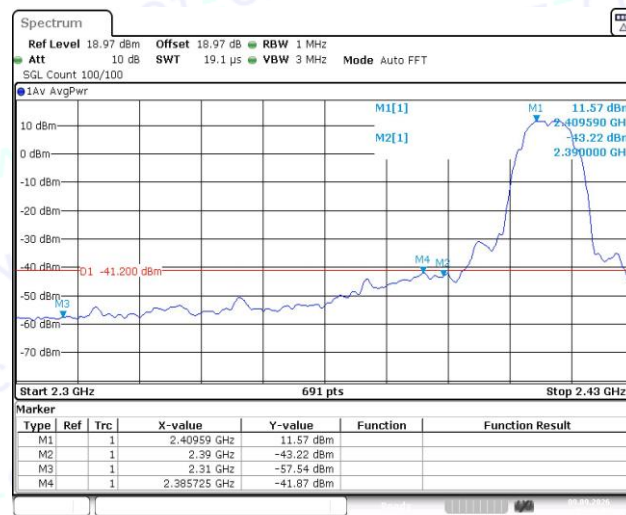
Note:

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



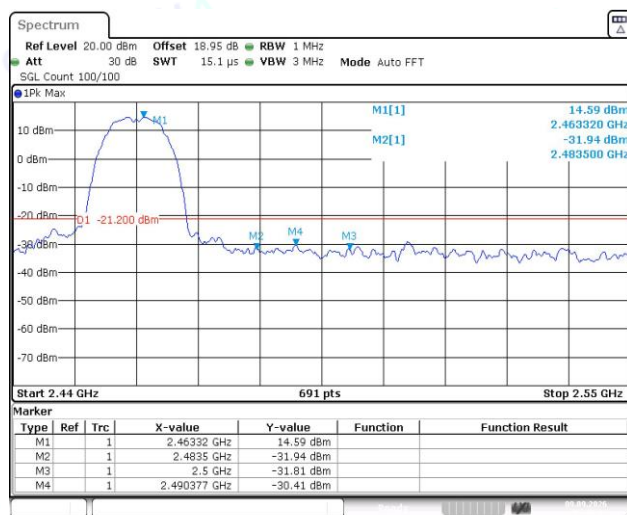
Date: 9.SEP.2026 20:33:48



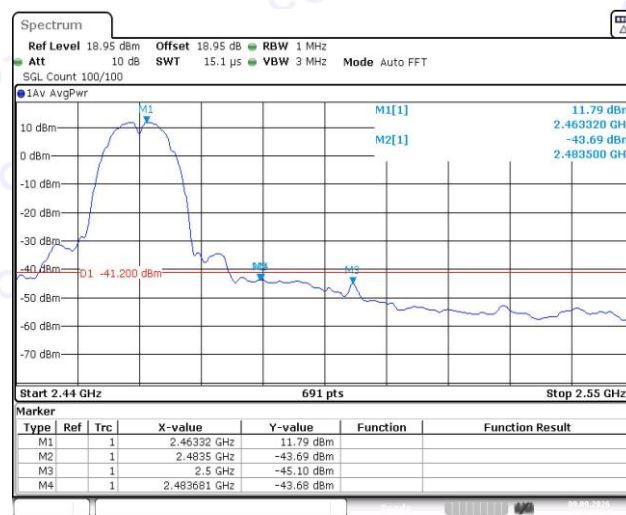
Date: 9.SEP.2026 20:34:00

11B-Ant1-2412-PASS

11B-Ant1-2412-PASS



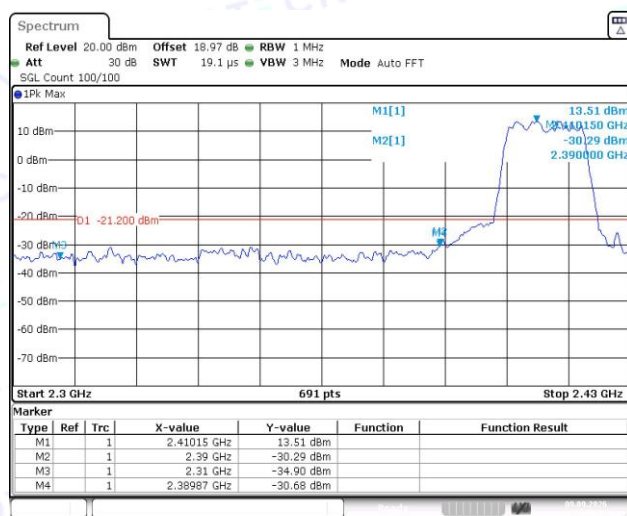
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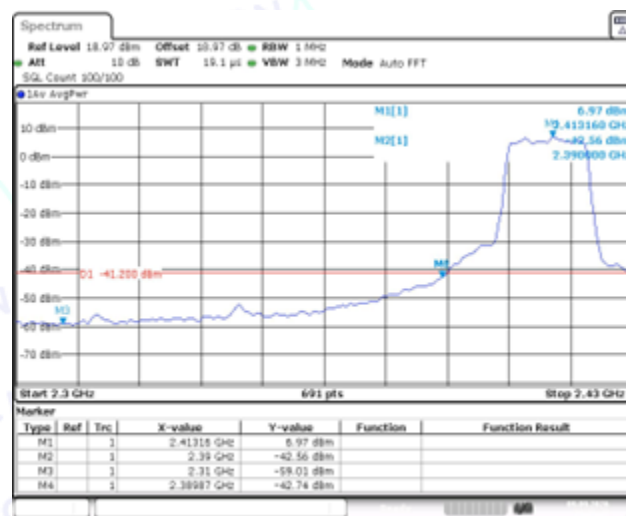
Date: 9.SEP.2026 20:30:48

11B-Ant1-2462-PASS

11B-Ant1-2462-PASS



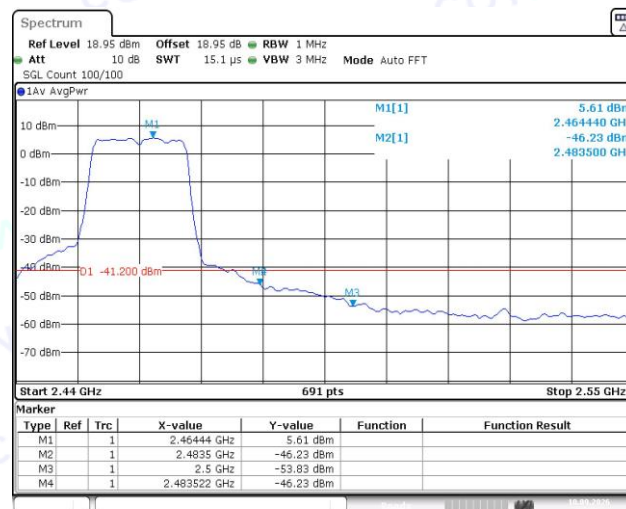
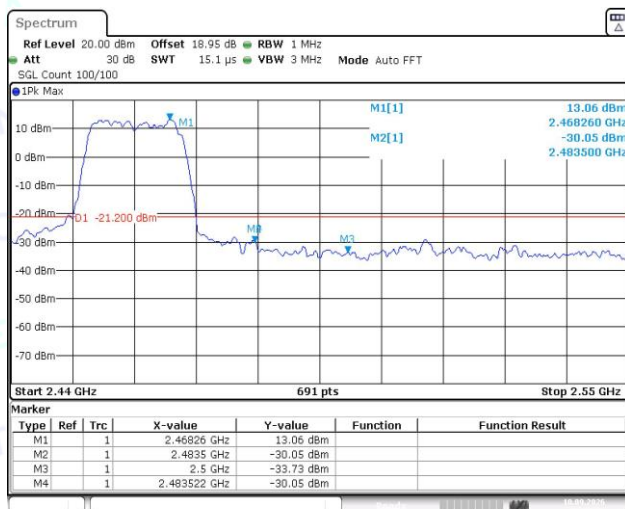
Date: 9.SEP.2026 21:03:32



Date: 9.SEP.2026 21:03:44

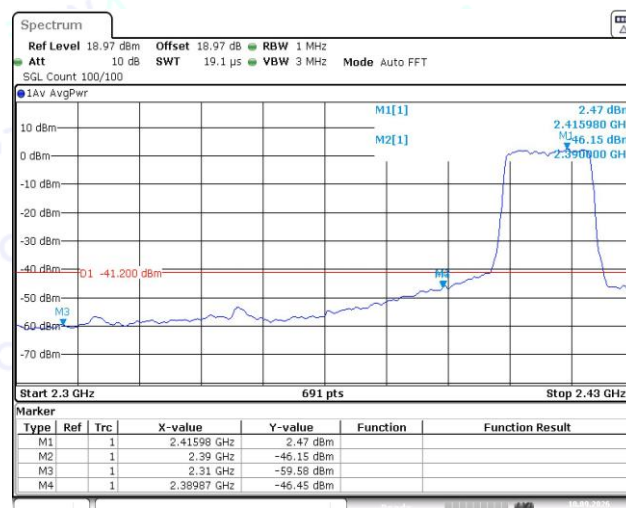
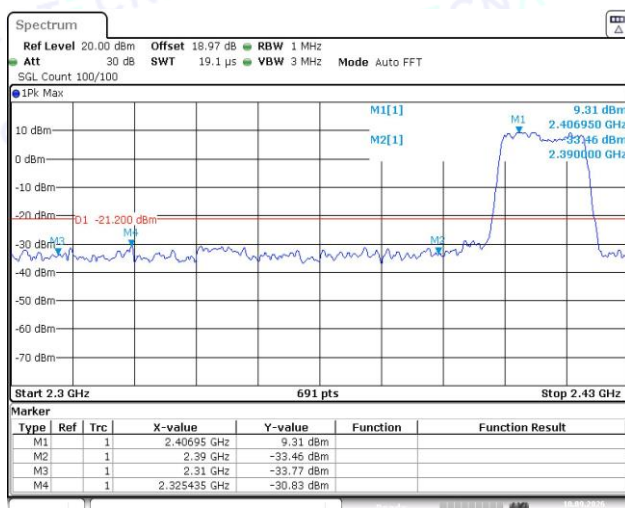
11G-Ant1-2412-PASS

11G-Ant1-2412-PASS



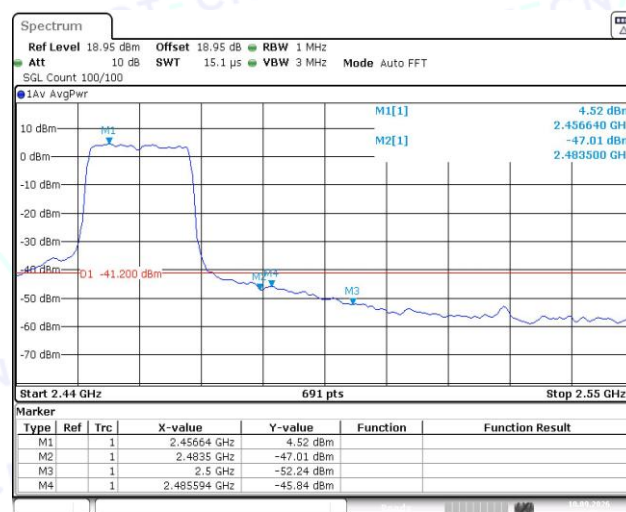
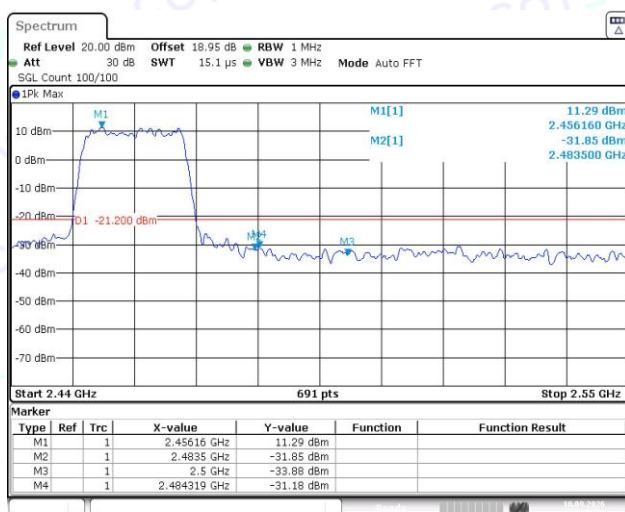
11G-Ant1-2462-PASS

11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS

11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

11N20SISO-Ant1-2462-PASS

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