

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

General Description of EUT	
EUT Name:	projector
Model:	Q5 Pro
Sample ID:	HC-C-202609-0043-01-01-2#
Test Standard:	FCC Part 15.247
Environmental Conditions	
Ambient Temperature:	25℃
Ambient Humidity:	45%RH
Test Power Supply:	AC 120V/60Hz
Test Engineer:	Lily. Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202609-0043-33	

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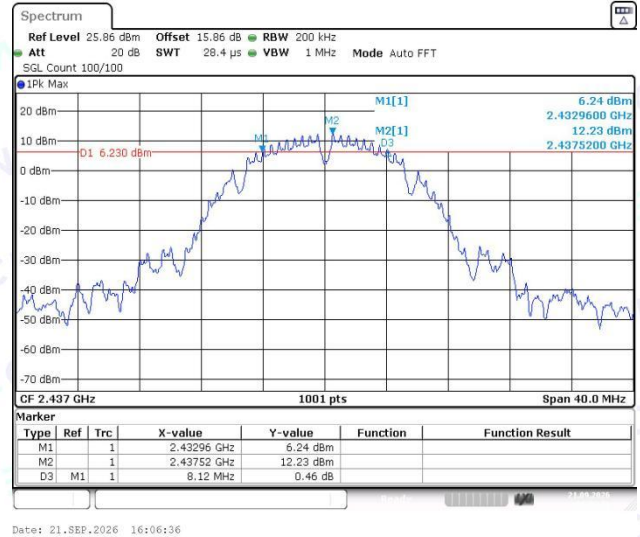
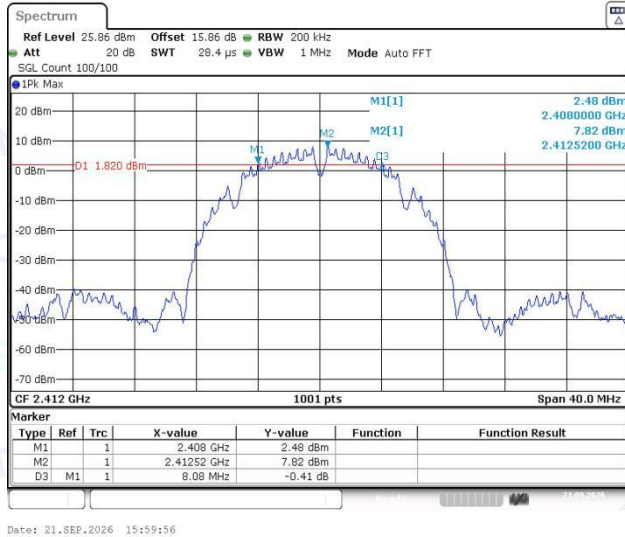
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1: DTS Bandwidth

1.1 Test Result

TestMode	Ant.	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.08	2408.00	2416.08	0.5	PASS
11B	Ant1	2437	8.12	2432.96	2441.08	0.5	PASS
11B	Ant1	2462	8.12	2457.96	2466.08	0.5	PASS
11G	Ant1	2412	15.88	2404.24	2420.12	0.5	PASS
11G	Ant1	2437	16.40	2428.84	2445.24	0.5	PASS
11G	Ant1	2462	16.28	2453.92	2470.20	0.5	PASS
11N20SISO	Ant1	2412	17.56	2403.28	2420.84	0.5	PASS
11N20SISO	Ant1	2437	17.60	2428.24	2445.84	0.5	PASS
11N20SISO	Ant1	2462	17.52	2453.28	2470.80	0.5	PASS
11N40SISO	Ant1	2422	36.16	2404.00	2440.16	0.5	PASS
11N40SISO	Ant1	2437	36.24	2418.92	2455.16	0.5	PASS
11N40SISO	Ant1	2452	36.16	2434.00	2470.16	0.5	PASS
11AX20SISO	Ant1	2412	18.56	2402.80	2421.36	0.5	PASS
11AX20SISO	Ant1	2437	18.92	2427.60	2446.52	0.5	PASS
11AX20SISO	Ant1	2462	18.40	2452.80	2471.20	0.5	PASS
11AX40SISO	Ant1	2422	37.92	2403.12	2441.04	0.5	PASS
11AX40SISO	Ant1	2437	36.64	2419.24	2455.88	0.5	PASS
11AX40SISO	Ant1	2452	37.28	2433.28	2470.56	0.5	PASS

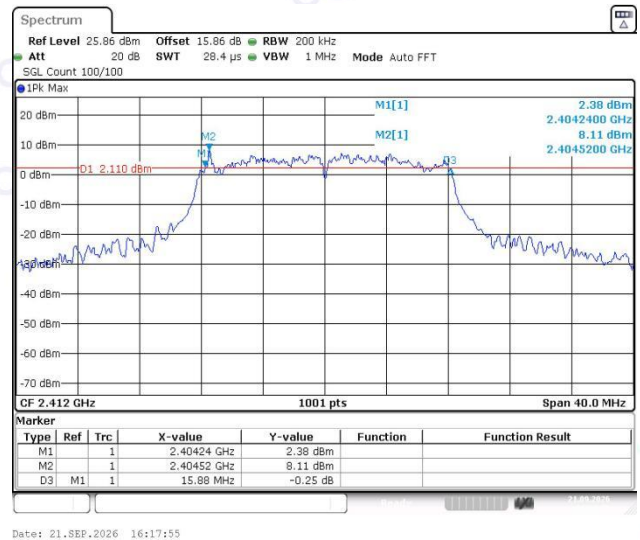
1.2 Test Graphs



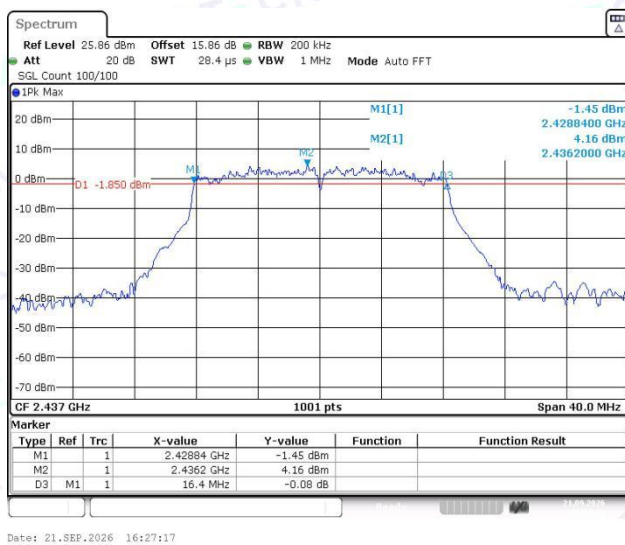
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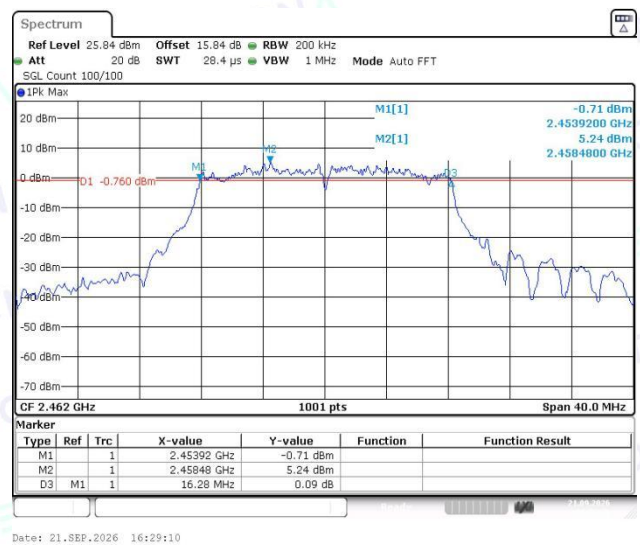
11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

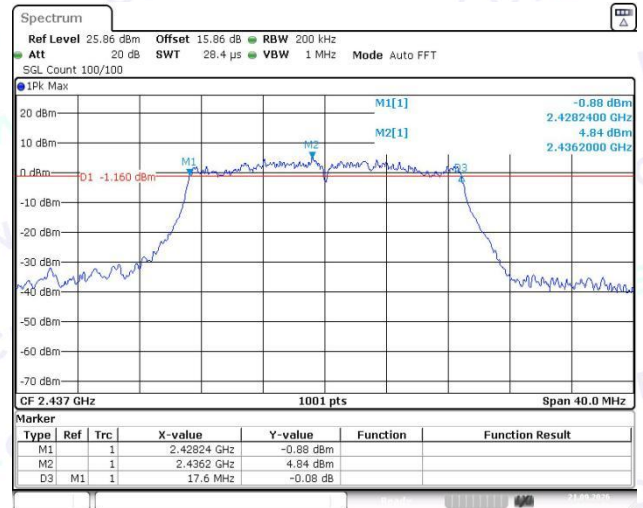
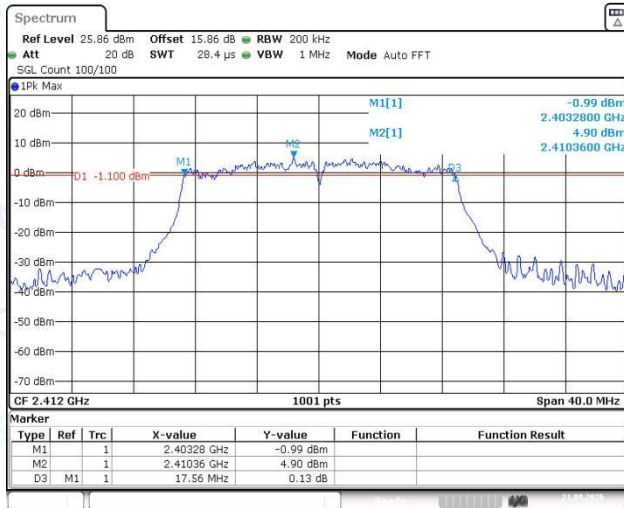


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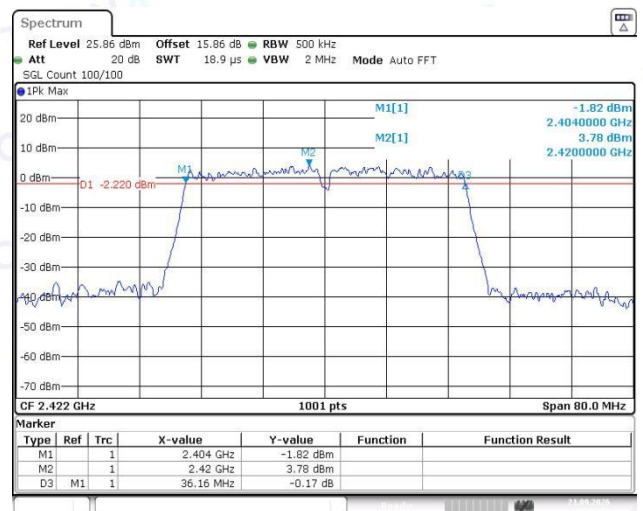
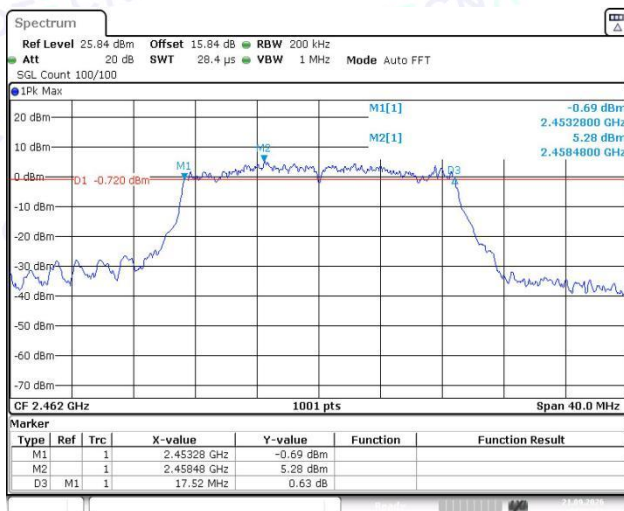
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11G-Ant1-2462-PASS



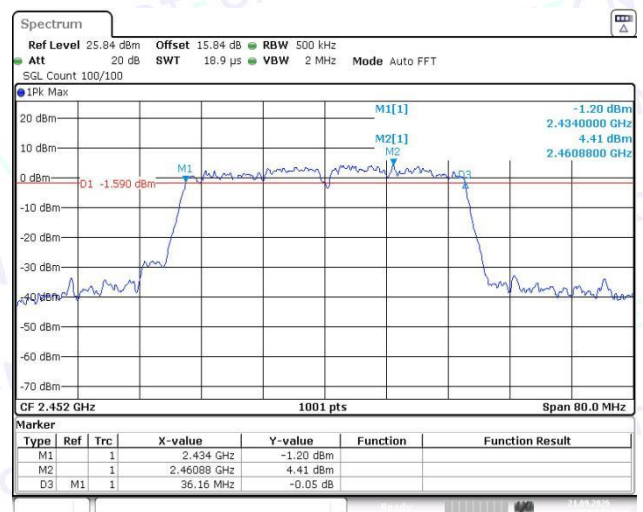
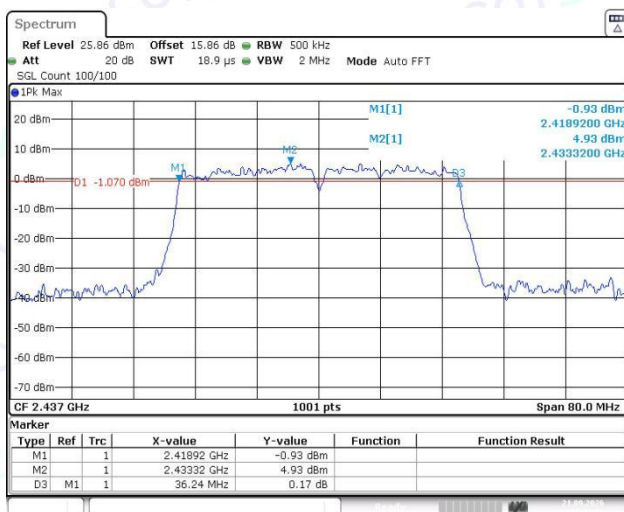
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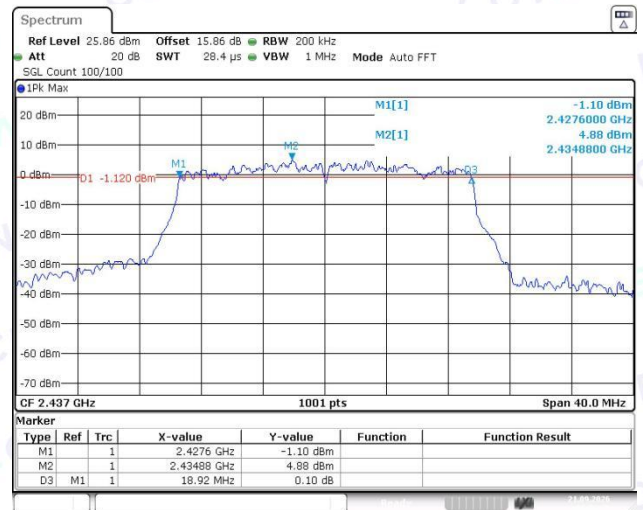
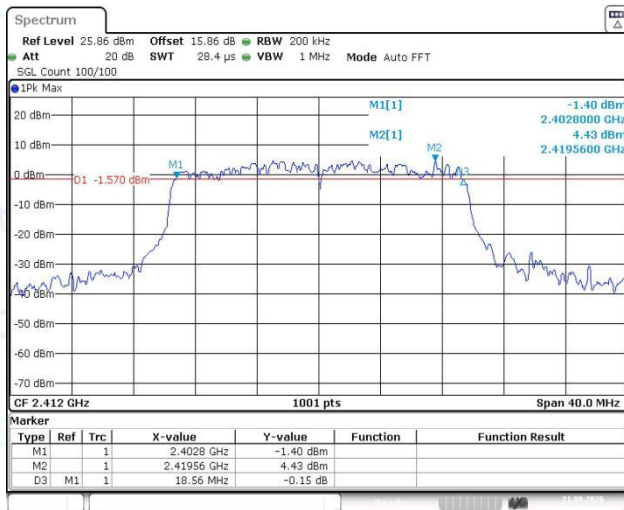
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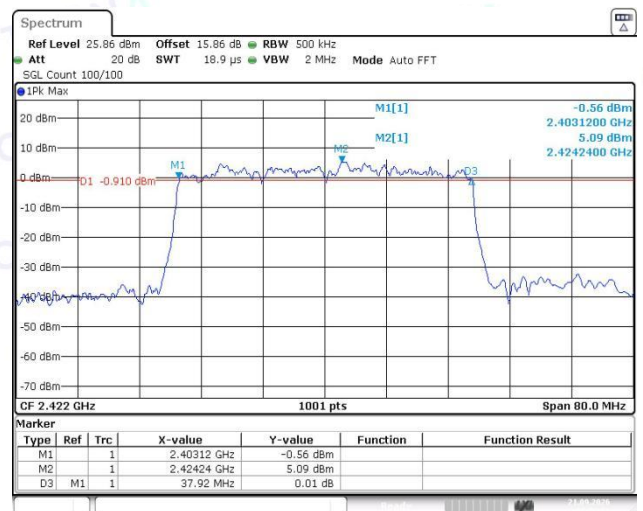
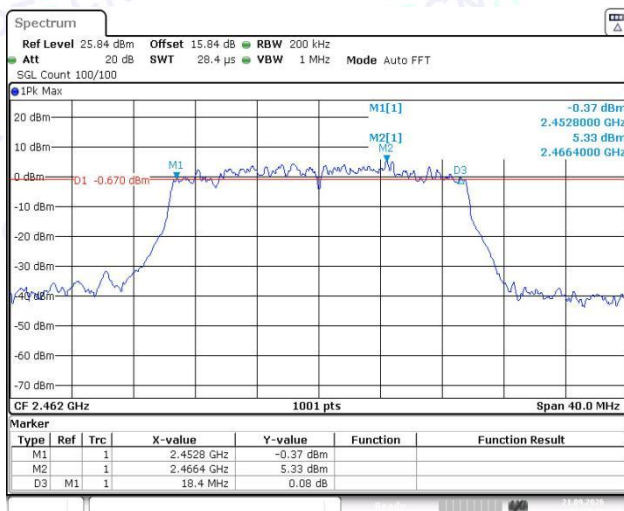


11N40SISO-Ant1-2437-PASS

11N40SISO-Ant1-2452-PASS

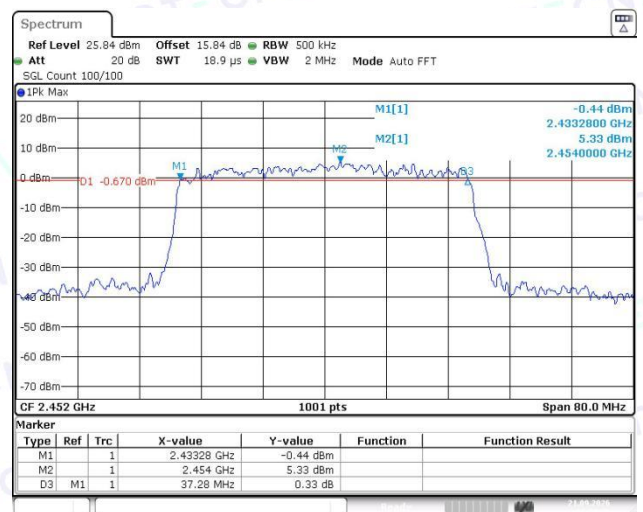
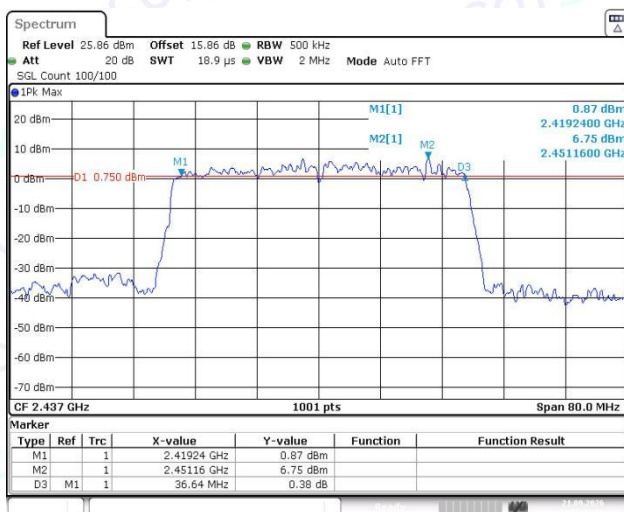


11AX20SISO-Ant1-2412-PASS



11AX20SISO-Ant1-2462-PASS

11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2437-PASS

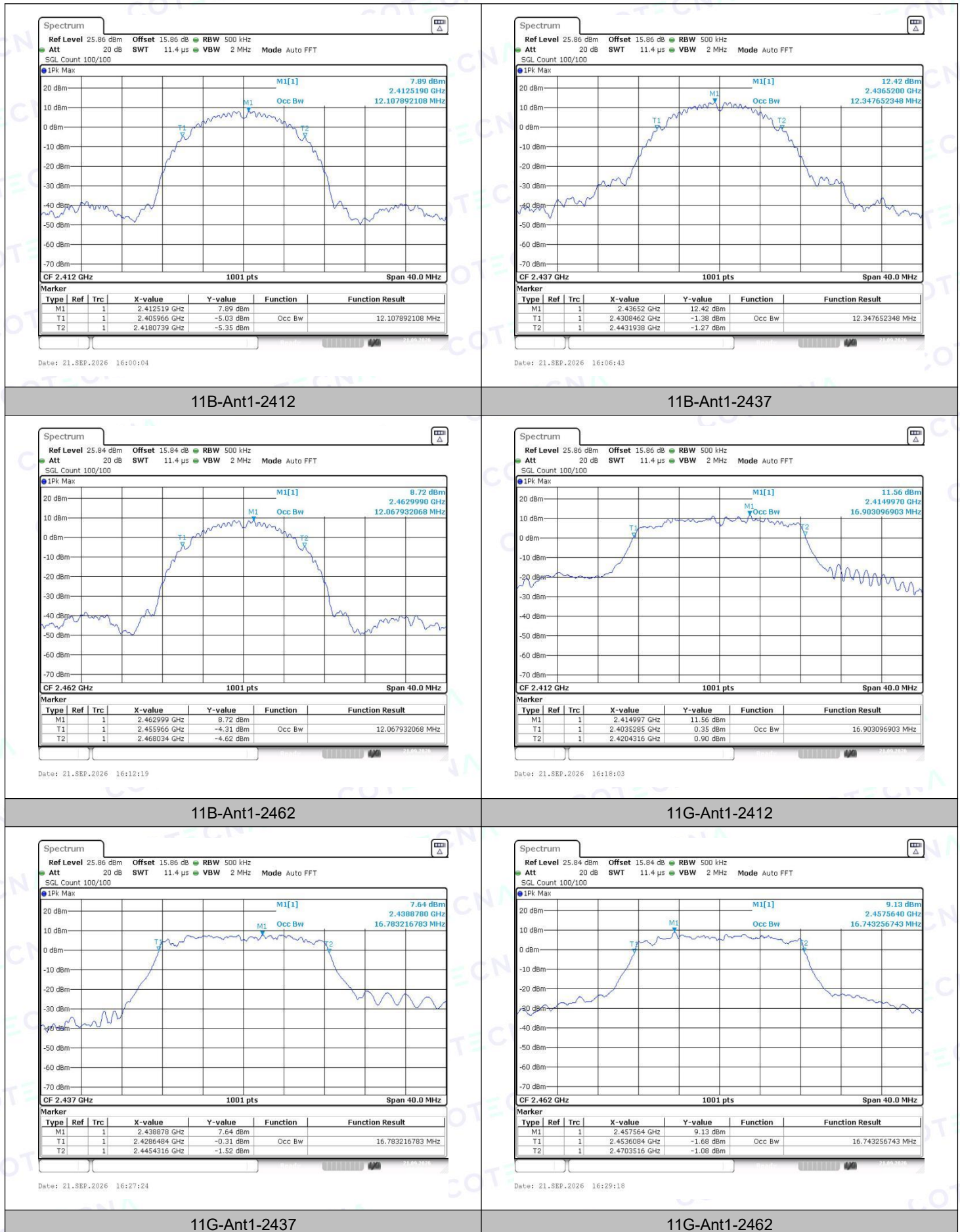
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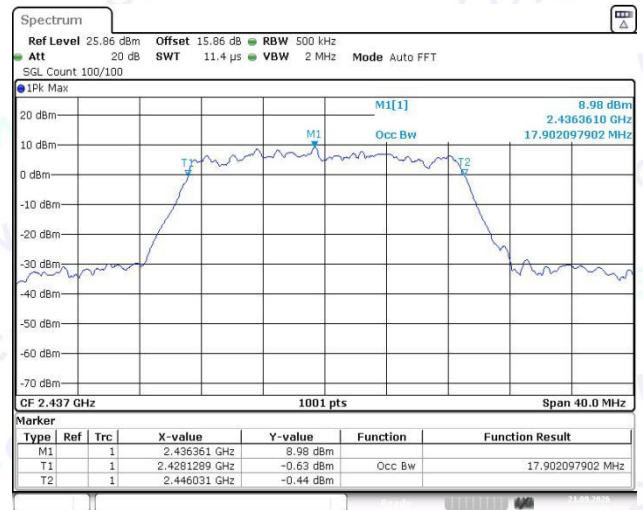
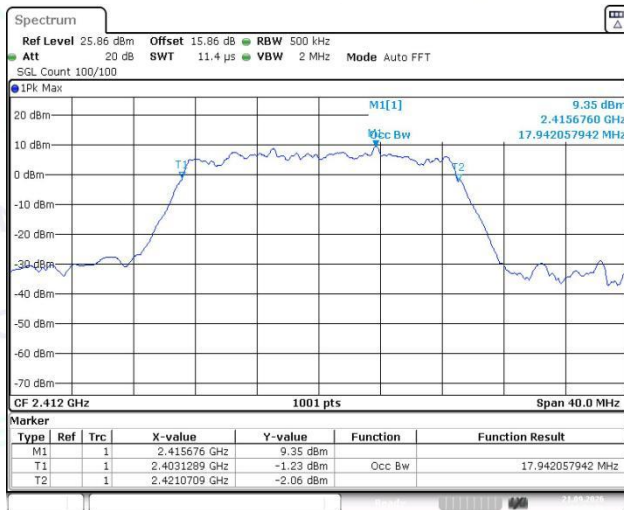
2: Occupied Channel Bandwidth

2.1 Test Result

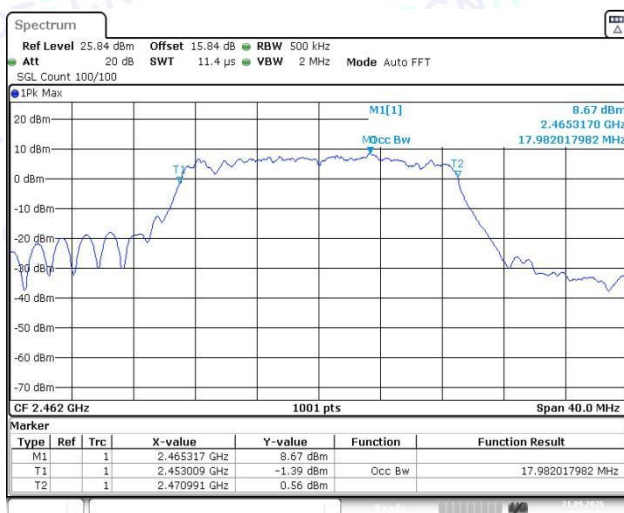
TestMode	Ant.	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.108	2405.9660	2418.0739	---	---
11B	Ant1	2437	12.348	2430.8462	2443.1938	---	---
11B	Ant1	2462	12.068	2455.9660	2468.0340	---	---
11G	Ant1	2412	16.903	2403.5285	2420.4316	---	---
11G	Ant1	2437	16.783	2428.6484	2445.4316	---	---
11G	Ant1	2462	16.743	2453.6084	2470.3516	---	---
11N20SISO	Ant1	2412	17.942	2403.1289	2421.0709	---	---
11N20SISO	Ant1	2437	17.902	2428.1289	2446.0310	---	---
11N20SISO	Ant1	2462	17.982	2453.0090	2470.9910	---	---
11N40SISO	Ant1	2422	35.964	2404.0979	2440.0619	---	---
11N40SISO	Ant1	2437	36.364	2418.8581	2455.2218	---	---
11N40SISO	Ant1	2452	36.124	2433.9381	2470.0619	---	---
11AX20SISO	Ant1	2412	19.061	2402.4895	2421.5504	---	---
11AX20SISO	Ant1	2437	18.901	2427.6094	2446.5105	---	---
11AX20SISO	Ant1	2462	19.181	2452.2897	2471.4705	---	---
11AX40SISO	Ant1	2422	37.642	2403.1389	2440.7812	---	---
11AX40SISO	Ant1	2437	37.802	2418.1389	2455.9411	---	---
11AX40SISO	Ant1	2452	37.642	2433.2987	2470.9411	---	---

2.2 Test Graphs

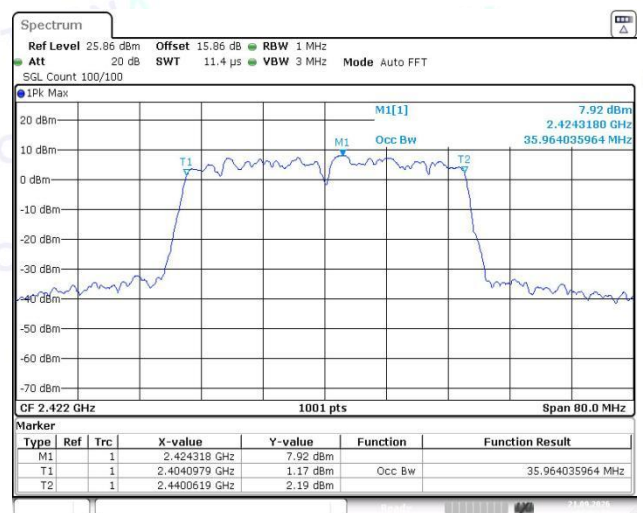




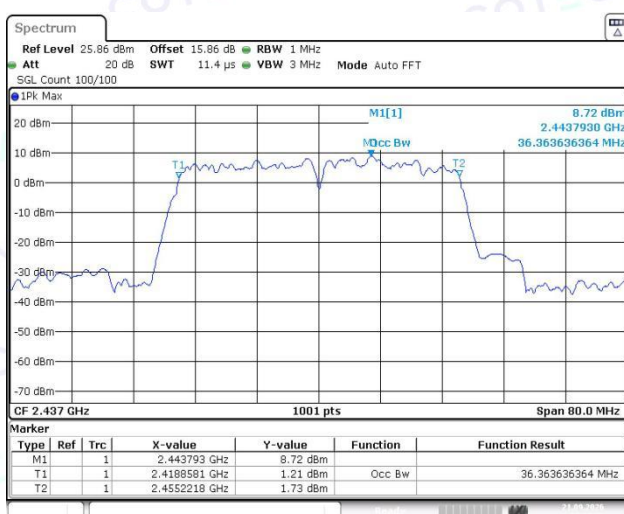
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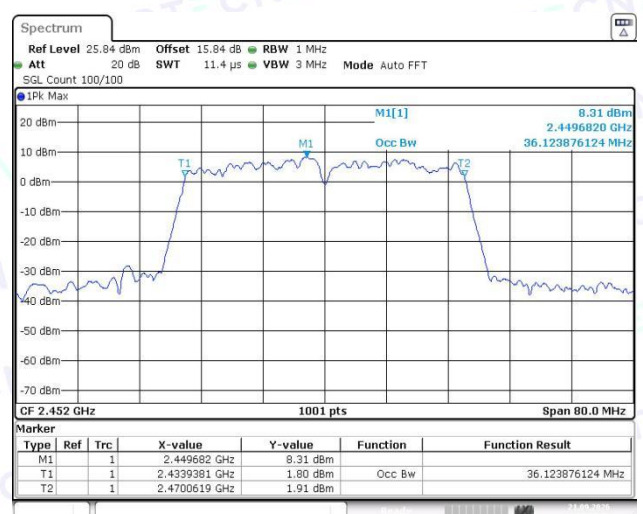
11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

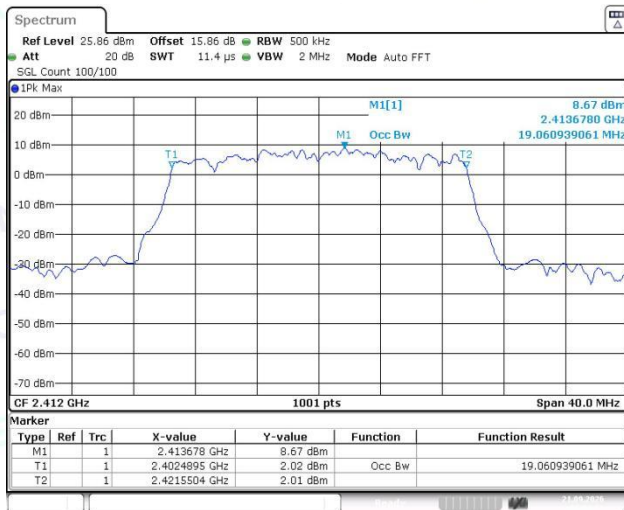


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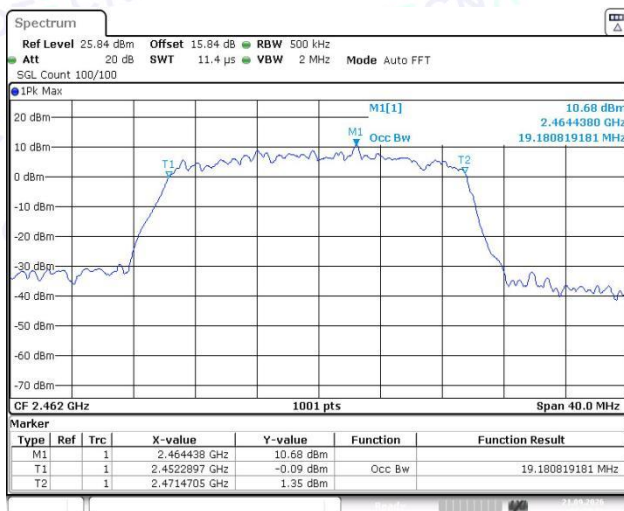


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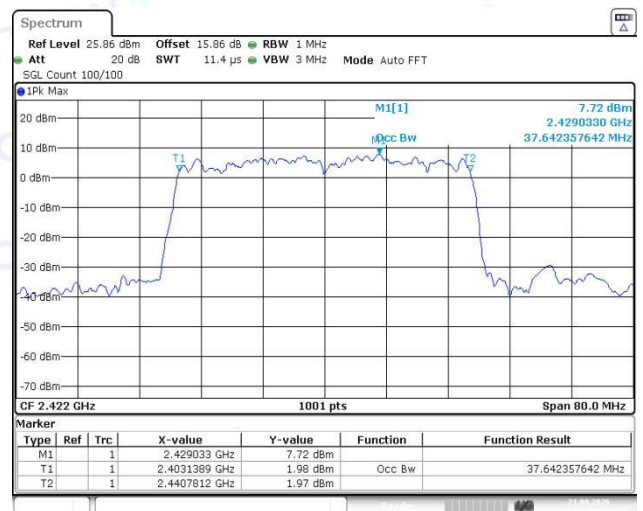
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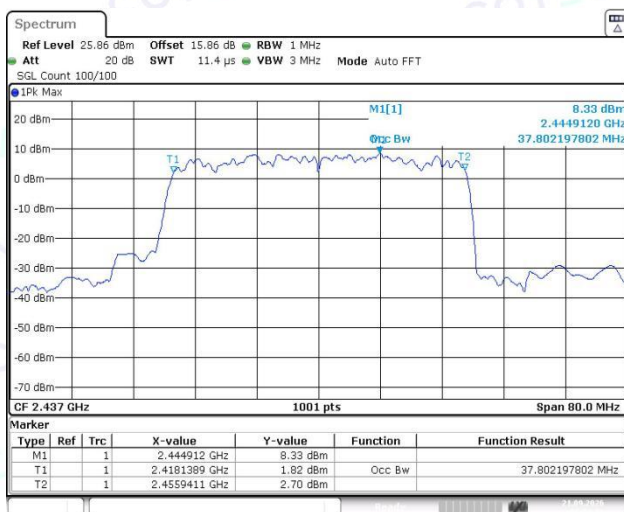
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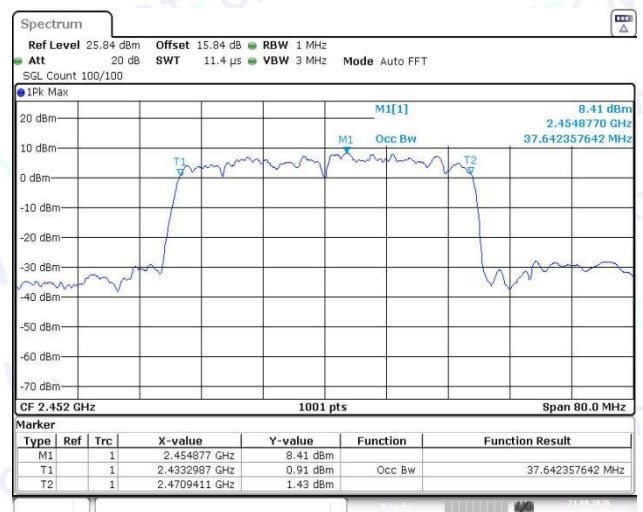
11AX20SISO-Ant1-2437



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]	Raw Power [dBm]	DC Factor	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.72	2.94	16.66	≤30.00	PASS
11B	Ant1	2437	13.79	2.94	16.73	≤30.00	PASS
11B	Ant1	2462	13.56	2.94	16.50	≤30.00	PASS
11G	Ant1	2412	12.68	2.36	15.04	≤30.00	PASS
11G	Ant1	2437	13.18	2.36	15.54	≤30.00	PASS
11G	Ant1	2462	12.58	2.36	14.94	≤30.00	PASS
11N20SISO	Ant1	2412	12.49	2.44	14.93	≤30.00	PASS
11N20SISO	Ant1	2437	12.71	2.44	15.15	≤30.00	PASS
11N20SISO	Ant1	2462	12.43	2.44	14.87	≤30.00	PASS
11N40SISO	Ant1	2422	11.66	2.48	14.14	≤30.00	PASS
11N40SISO	Ant1	2437	12.43	2.48	14.91	≤30.00	PASS
11N40SISO	Ant1	2452	12.13	2.48	14.61	≤30.00	PASS
11AX20SISO	Ant1	2412	11.25	3.50	14.75	≤30.00	PASS
11AX20SISO	Ant1	2437	12.05	3.50	15.55	≤30.00	PASS
11AX20SISO	Ant1	2462	11.68	3.50	15.18	≤30.00	PASS
11AX40SISO	Ant1	2422	10.42	3.54	13.96	≤30.00	PASS
11AX40SISO	Ant1	2437	11.21	3.54	14.75	≤30.00	PASS
11AX40SISO	Ant1	2452	9.67	3.54	13.21	≤30.00	PASS

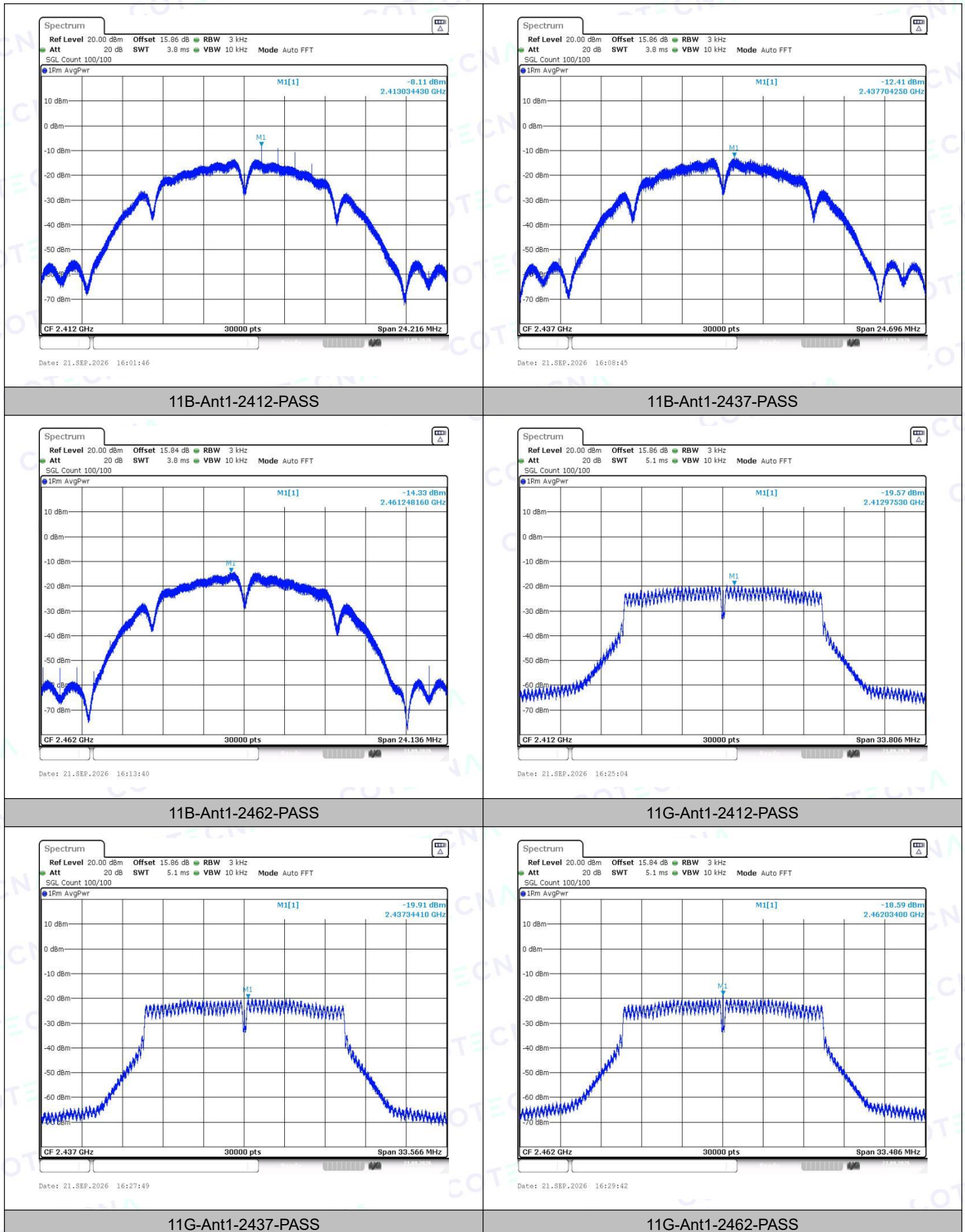
4: Maximum power spectral density

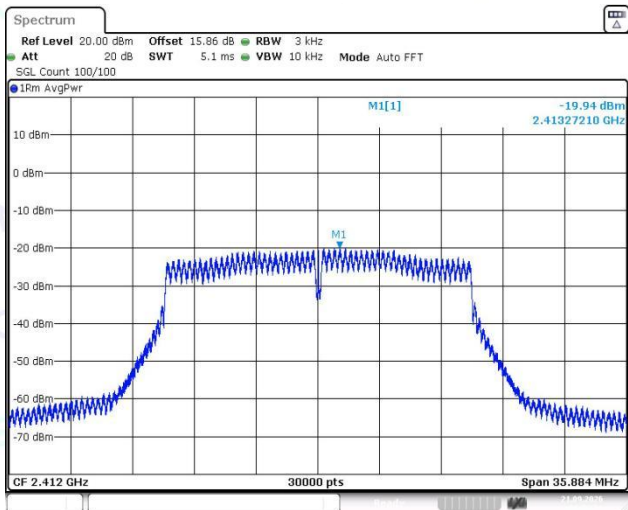
4.1 Test Result

TestMode	Ant.	Frequency[MHz]	RawData [dBm/3kHz]	DC Factor	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.11	2.94	-5.17	≤8.00	PASS
11B	Ant1	2437	-12.41	2.94	-9.47	≤8.00	PASS
11B	Ant1	2462	-14.33	2.94	-11.39	≤8.00	PASS
11G	Ant1	2412	-19.57	2.36	-17.21	≤8.00	PASS
11G	Ant1	2437	-19.91	2.36	-17.55	≤8.00	PASS
11G	Ant1	2462	-18.59	2.36	-16.23	≤8.00	PASS
11N20SISO	Ant1	2412	-19.94	2.44	-17.50	≤8.00	PASS
11N20SISO	Ant1	2437	-19.67	2.44	-17.23	≤8.00	PASS
11N20SISO	Ant1	2462	-19.38	2.44	-16.94	≤8.00	PASS
11N40SISO	Ant1	2422	-24.62	2.48	-22.14	≤8.00	PASS
11N40SISO	Ant1	2437	-23.4	2.48	-20.92	≤8.00	PASS
11N40SISO	Ant1	2452	-22.91	2.48	-20.43	≤8.00	PASS
11AX20SISO	Ant1	2412	-21.69	3.50	-18.19	≤8.00	PASS
11AX20SISO	Ant1	2437	-21.77	3.50	-18.27	≤8.00	PASS
11AX20SISO	Ant1	2462	-21.86	3.50	-18.36	≤8.00	PASS
11AX40SISO	Ant1	2422	-26.6	3.54	-23.06	≤8.00	PASS
11AX40SISO	Ant1	2437	-24.85	3.54	-21.31	≤8.00	PASS
11AX40SISO	Ant1	2452	-26.01	3.54	-22.47	≤8.00	PASS

Note: RF Conducted test Offset= cable loss+ Attenuator

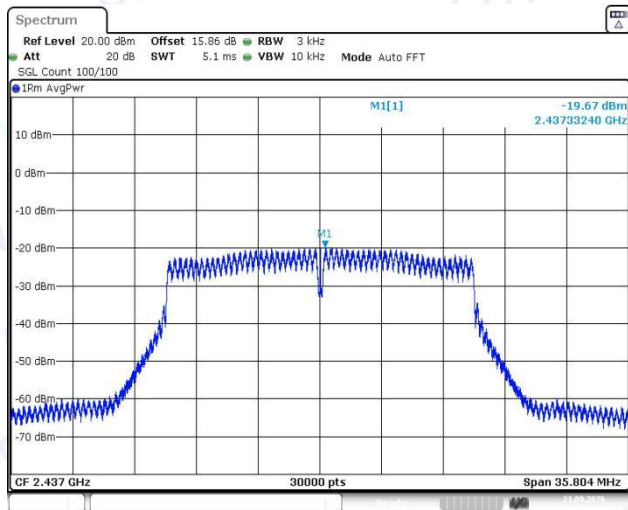
4.2 Test Graphs





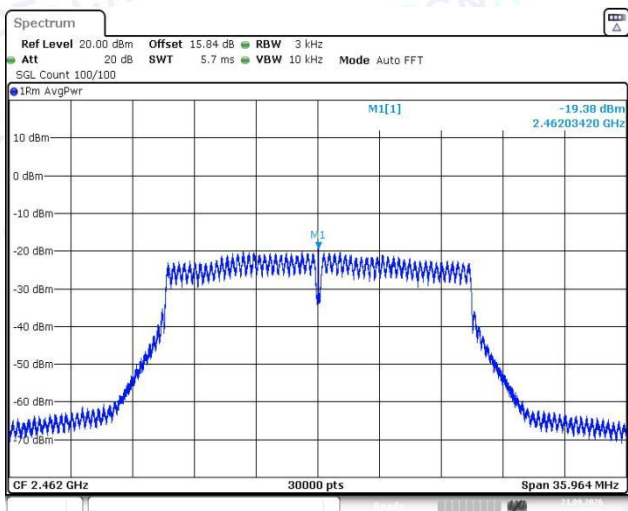
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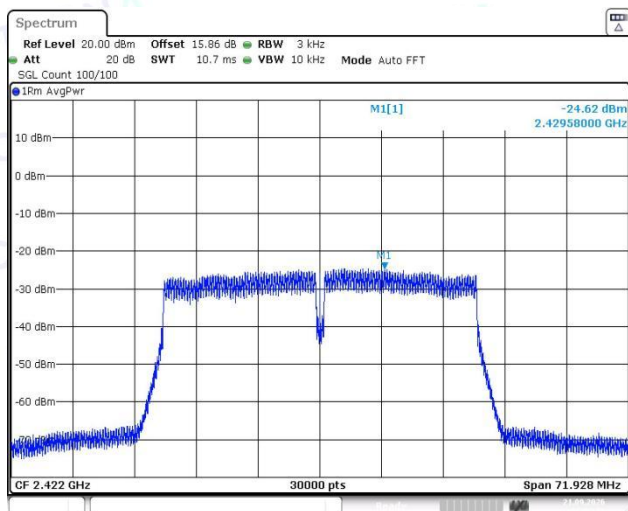
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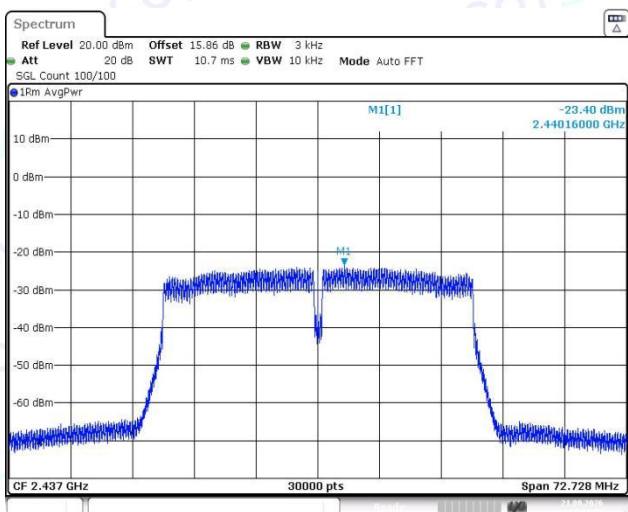
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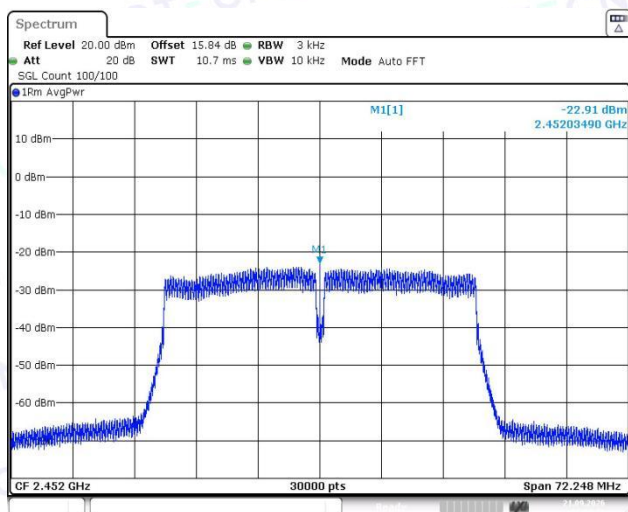
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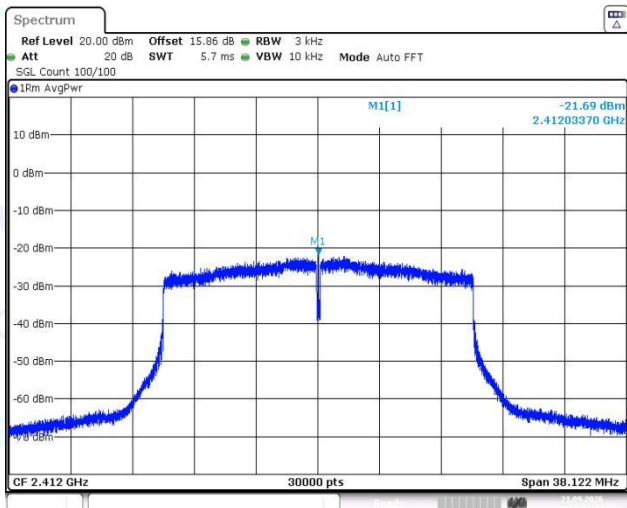
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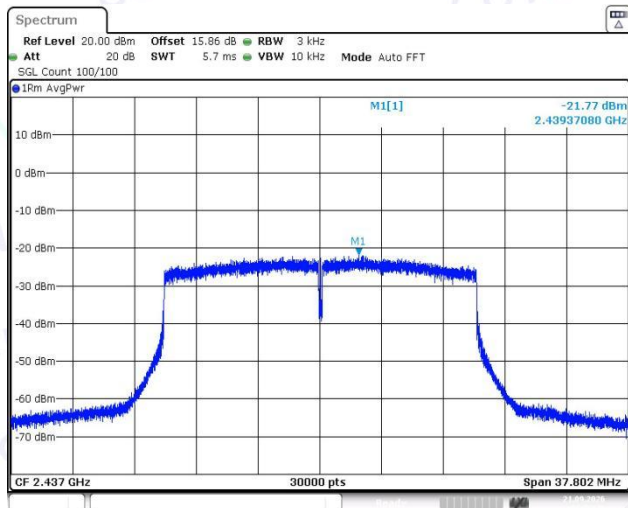


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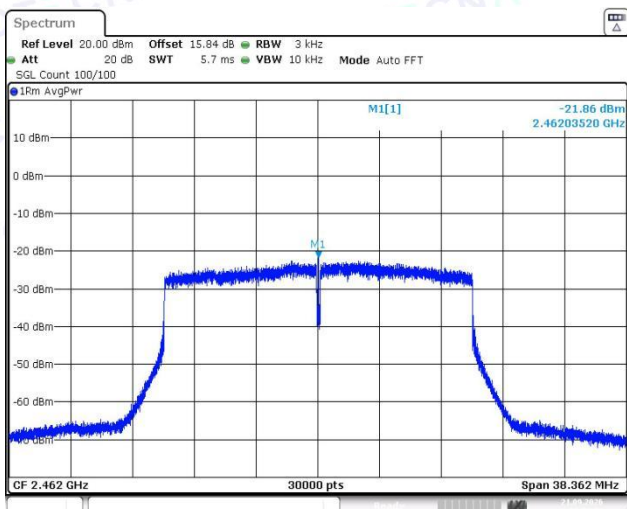
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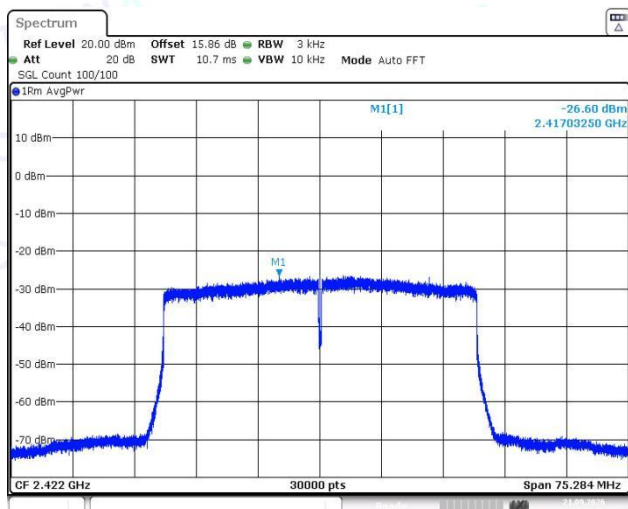
11AX20SISO-Ant1-2412-PASS



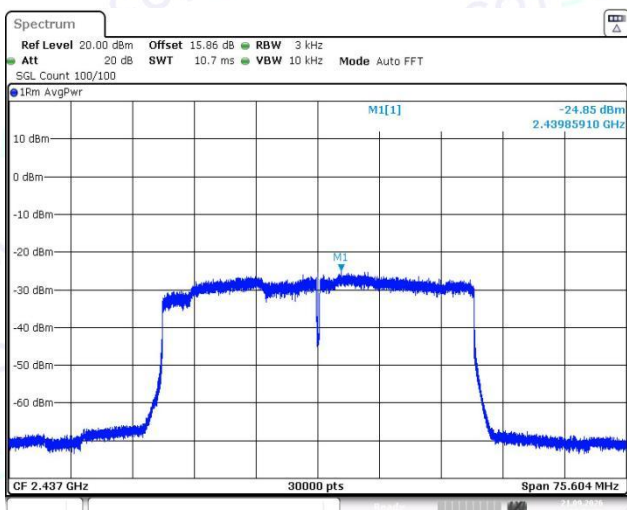
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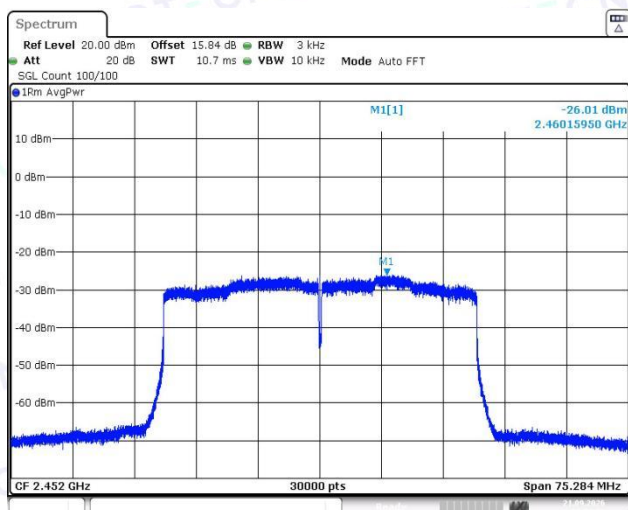
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11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2437-PASS

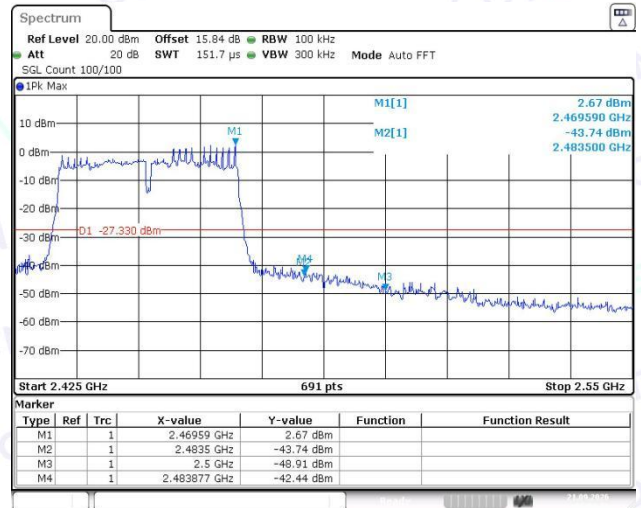
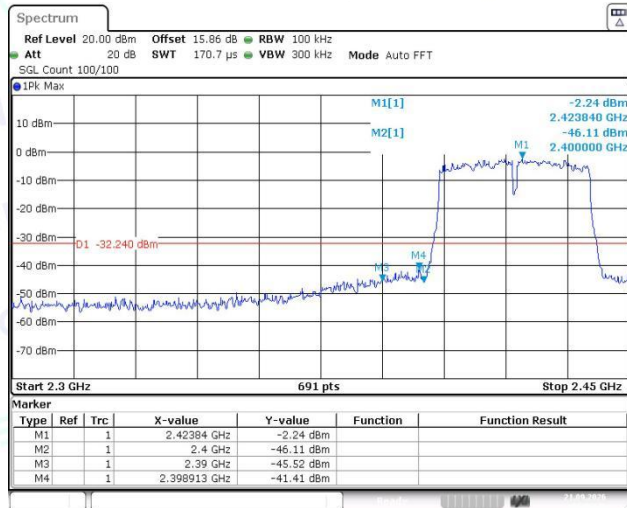


11AX40SISO-Ant1-2452-PASS

5: Band edge measurements

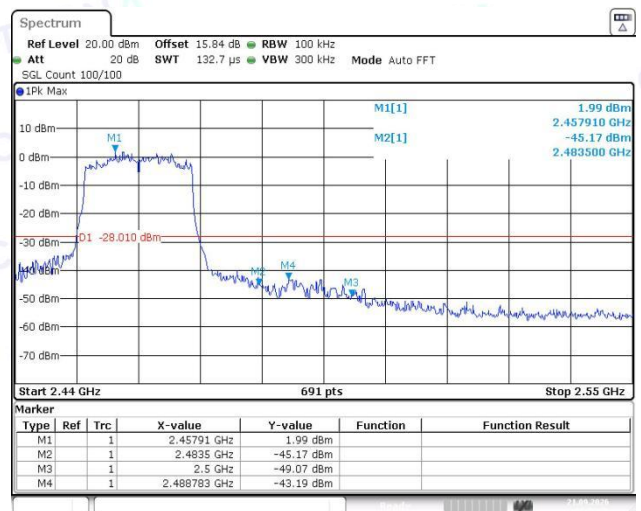
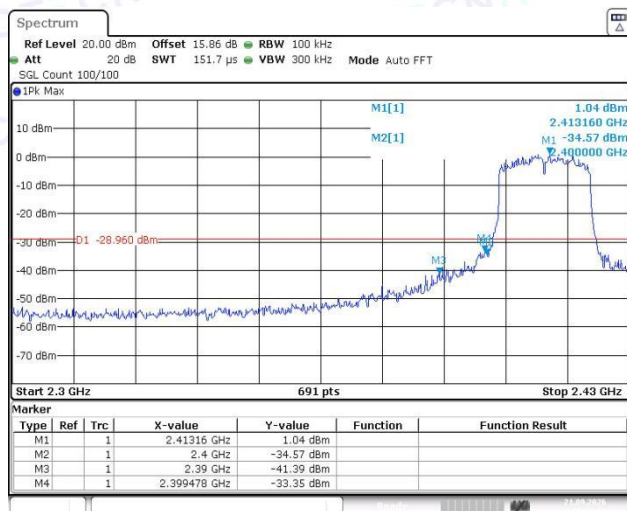
5.1 Test Result

TestMode	Ant.	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	9.50	-39.22	≤ -20.5	PASS
11B	Ant1	High	2462	9.80	-45.9	≤ -20.2	PASS
11G	Ant1	Low	2412	3.45	-29.93	≤ -26.55	PASS
11G	Ant1	High	2462	1.81	-40.68	≤ -28.19	PASS
11N20SISO	Ant1	Low	2412	1.62	-31.4	≤ -28.38	PASS
11N20SISO	Ant1	High	2462	2.91	-43.13	≤ -27.09	PASS
11N40SISO	Ant1	Low	2422	-2.24	-41.41	≤ -32.24	PASS
11N40SISO	Ant1	High	2452	2.67	-42.44	≤ -27.33	PASS
11AX20SISO	Ant1	Low	2412	1.04	-33.35	≤ -28.96	PASS
11AX20SISO	Ant1	High	2462	1.99	-43.19	≤ -28.01	PASS
11AX40SISO	Ant1	Low	2422	-2.46	-42.02	≤ -32.46	PASS
11AX40SISO	Ant1	High	2452	-1.90	-40.28	≤ -31.9	PASS



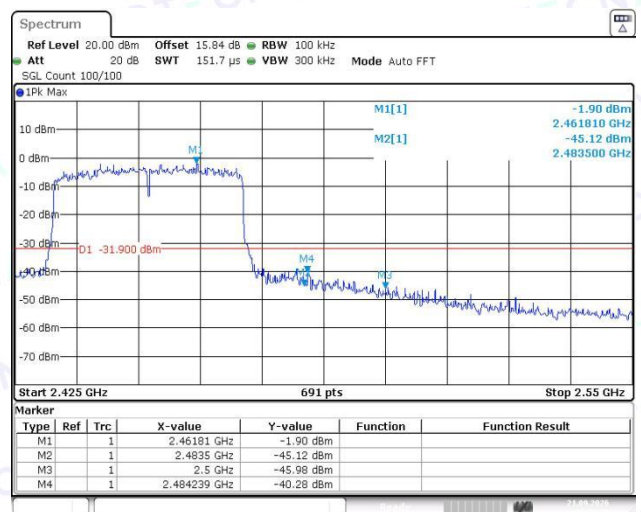
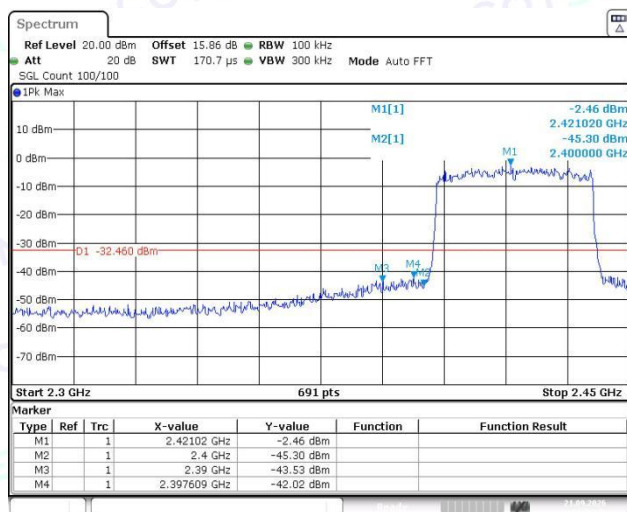
11N40SISO-Ant1-2422-PASS

11N40SISO-Ant1-2452-PASS



11AX20SISO-Ant1-2412-PASS

11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS

11AX40SISO-Ant1-2452-PASS

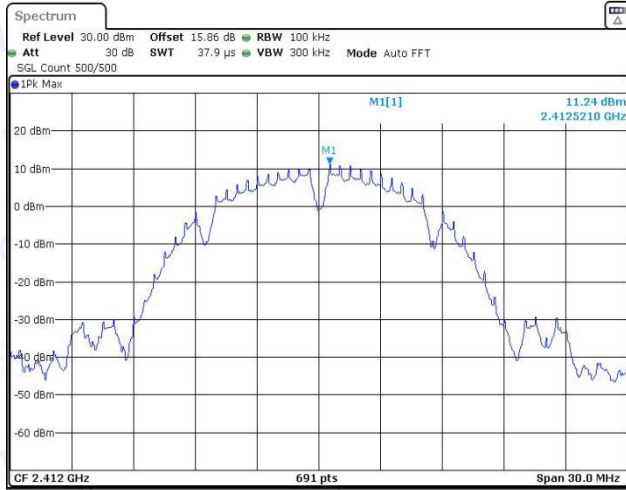
6: Conducted Spurious Emission

6.1 Test Result

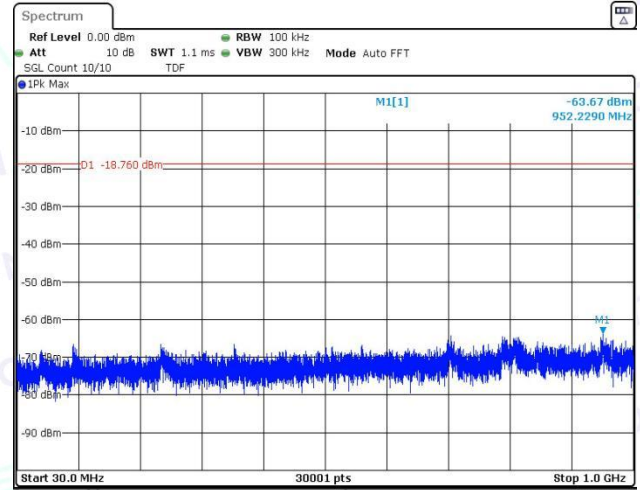
TestMode	Ant.	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	11.24	11.24	---	PASS
11B	Ant1	2412	30~1000	11.24	-63.67	≤-18.76	PASS
11B	Ant1	2412	1000~26500	11.24	-32.67	≤-18.76	PASS
11B	Ant1	2437	0~Reference	11.00	11.00	---	PASS
11B	Ant1	2437	30~1000	11.00	-63.17	≤-19	PASS
11B	Ant1	2437	1000~26500	11.00	-34.27	≤-19	PASS
11B	Ant1	2462	0~Reference	11.38	11.38	---	PASS
11B	Ant1	2462	30~1000	11.38	-63.98	≤-18.62	PASS
11B	Ant1	2462	1000~26500	11.38	-35.38	≤-18.62	PASS
11G	Ant1	2412	0~Reference	4.84	4.84	---	PASS
11G	Ant1	2412	30~1000	4.84	-63.66	≤-25.16	PASS
11G	Ant1	2412	1000~26500	4.84	-37.1	≤-25.16	PASS
11G	Ant1	2437	0~Reference	1.90	1.90	---	PASS
11G	Ant1	2437	30~1000	1.90	-61.82	≤-28.1	PASS
11G	Ant1	2437	1000~26500	1.90	-37.35	≤-28.1	PASS
11G	Ant1	2462	0~Reference	2.01	2.01	---	PASS
11G	Ant1	2462	30~1000	2.01	-62.38	≤-27.99	PASS
11G	Ant1	2462	1000~26500	2.01	-36.59	≤-27.99	PASS
11N20SISO	Ant1	2412	0~Reference	1.30	1.30	---	PASS
11N20SISO	Ant1	2412	30~1000	1.30	-62.81	≤-28.7	PASS
11N20SISO	Ant1	2412	1000~26500	1.30	-36.53	≤-28.7	PASS
11N20SISO	Ant1	2437	0~Reference	5.39	5.39	---	PASS
11N20SISO	Ant1	2437	30~1000	5.39	-63.14	≤-24.61	PASS
11N20SISO	Ant1	2437	1000~26500	5.39	-36.69	≤-24.61	PASS
11N20SISO	Ant1	2462	0~Reference	2.28	2.28	---	PASS
11N20SISO	Ant1	2462	30~1000	2.28	-63.66	≤-27.72	PASS
11N20SISO	Ant1	2462	1000~26500	2.28	-36.45	≤-27.72	PASS
11N40SISO	Ant1	2422	0~Reference	-0.64	-0.64	---	PASS
11N40SISO	Ant1	2422	30~1000	-0.64	-62.71	≤-30.64	PASS
11N40SISO	Ant1	2422	1000~26500	-0.64	-36.8	≤-30.64	PASS
11N40SISO	Ant1	2437	0~Reference	3.31	3.31	---	PASS
11N40SISO	Ant1	2437	30~1000	3.31	-63.77	≤-26.69	PASS
11N40SISO	Ant1	2437	1000~26500	3.31	-37.28	≤-26.69	PASS
11N40SISO	Ant1	2452	0~Reference	2.92	2.92	---	PASS
11N40SISO	Ant1	2452	30~1000	2.92	-62	≤-27.08	PASS
11N40SISO	Ant1	2452	1000~26500	2.92	-36.97	≤-27.08	PASS
11AX20SISO	Ant1	2412	0~Reference	4.66	4.66	---	PASS
11AX20SISO	Ant1	2412	30~1000	4.66	-63.7	≤-25.34	PASS
11AX20SISO	Ant1	2412	1000~26500	4.66	-36.62	≤-25.34	PASS
11AX20SISO	Ant1	2437	0~Reference	5.29	5.29	---	PASS
11AX20SISO	Ant1	2437	30~1000	5.29	-63.43	≤-24.71	PASS

11AX20SISO	Ant1	2437	1000~26500	5.29	-36.36	≤ -24.71	PASS
11AX20SISO	Ant1	2462	0~Reference	2.85	2.85	---	PASS
11AX20SISO	Ant1	2462	30~1000	2.85	-63.36	≤ -27.15	PASS
11AX20SISO	Ant1	2462	1000~26500	2.85	-36.96	≤ -27.15	PASS
11AX40SISO	Ant1	2422	0~Reference	-0.01	-0.01	---	PASS
11AX40SISO	Ant1	2422	30~1000	-0.01	-63.16	≤ -30.01	PASS
11AX40SISO	Ant1	2422	1000~26500	-0.01	-36	≤ -30.01	PASS
11AX40SISO	Ant1	2437	0~Reference	1.88	1.88	---	PASS
11AX40SISO	Ant1	2437	30~1000	1.88	-62.79	≤ -28.12	PASS
11AX40SISO	Ant1	2437	1000~26500	1.88	-36.63	≤ -28.12	PASS
11AX40SISO	Ant1	2452	0~Reference	-1.28	-1.28	---	PASS
11AX40SISO	Ant1	2452	30~1000	-1.28	-62.98	≤ -31.28	PASS
11AX40SISO	Ant1	2452	1000~26500	-1.28	-36.19	≤ -31.28	PASS

6.2 Test Graphs



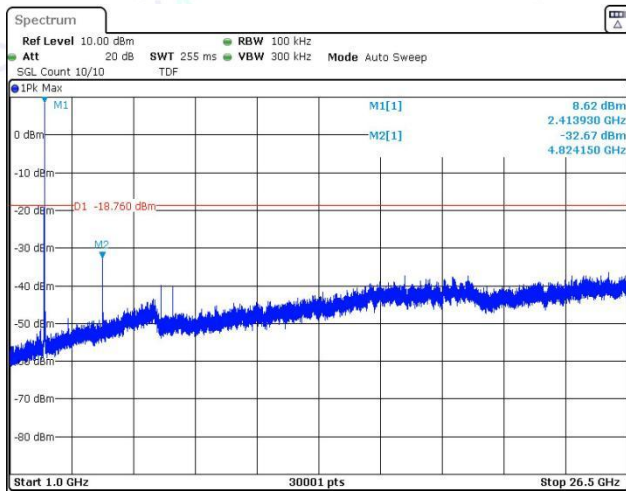
Date: 21.SEP.2026 16:05:52



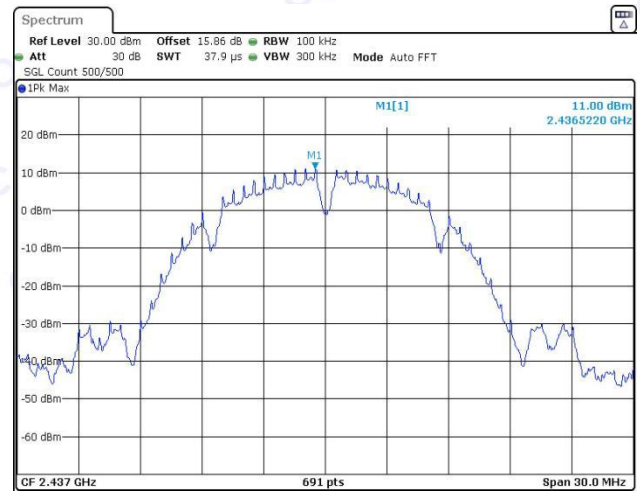
Date: 21.SEP.2026 16:06:00

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

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



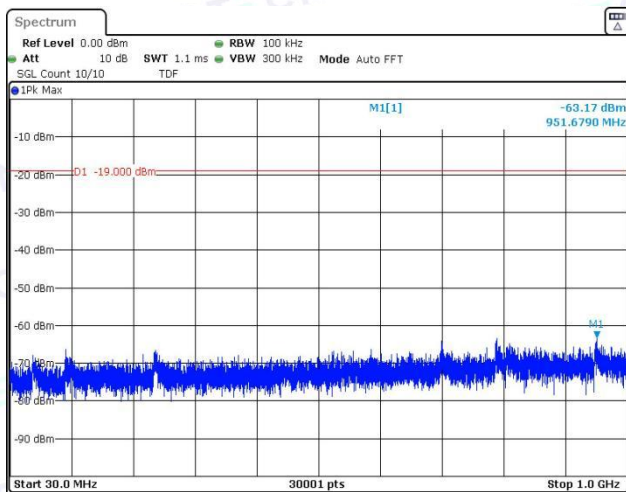
Date: 21.SEP.2026 16:06:16



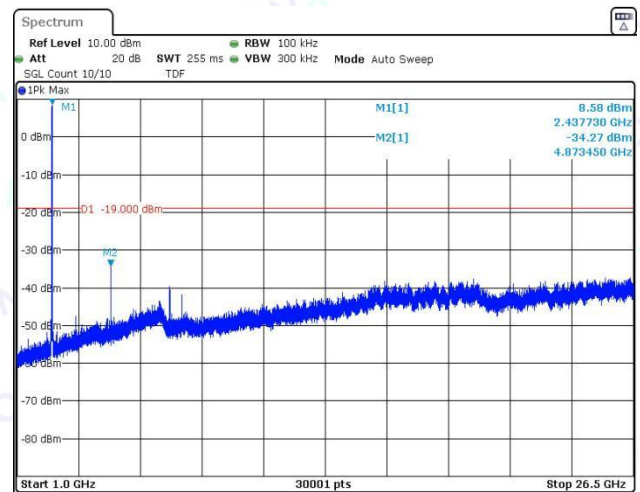
Date: 21.SEP.2026 16:08:56

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

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



Date: 21.SEP.2026 16:09:03



Date: 21.SEP.2026 16:09:19

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

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