

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

General Description of EUT	
Product Name:	Automatic Key Cutting Machine
Test Model:	XC-MINI PLUS II
Sample ID:	202202-0114-11-2#
Environmental Conditions	
Temperature:	24℃
Relative Humidity:	50%
Test Voltage:	AC 90-264V, 3A, 50/60Hz
Test Engineer:	Huangjianping
Note: For a more detailed features description, please refer to the report TBR-C-202202-0114-15.	

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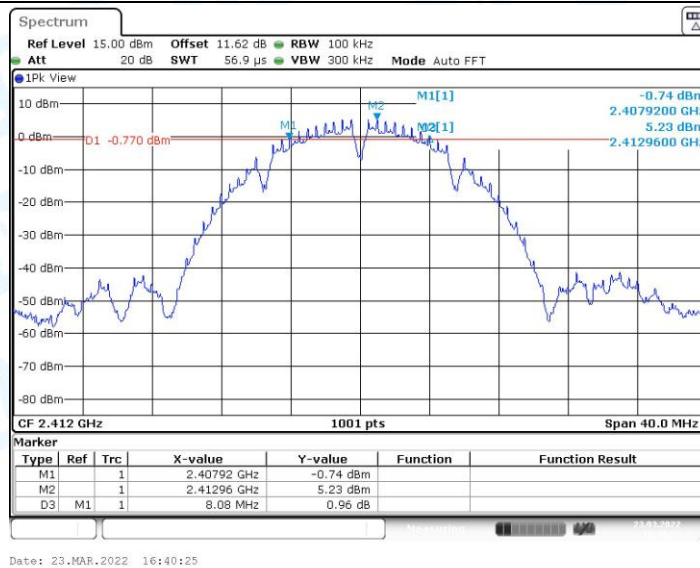
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1. DTS bandwidth

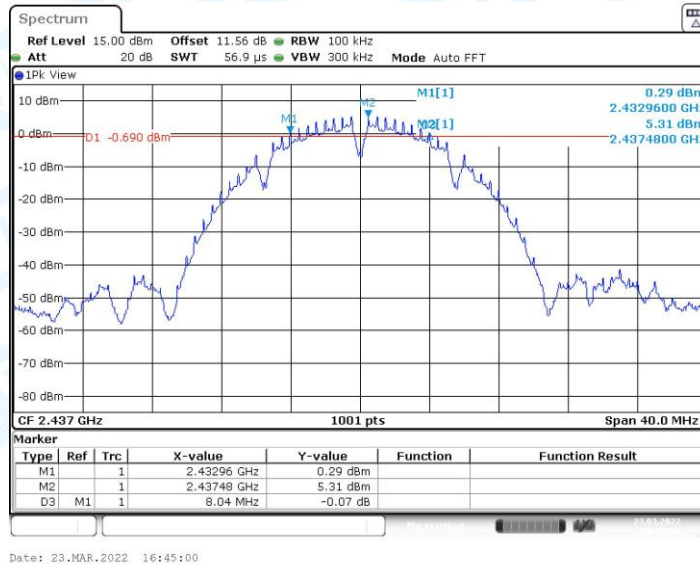
1.1. Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.08	2407.92	2416.00	0.5	PASS
		2437	8.04	2432.96	2441.00	0.5	PASS
		2462	8.04	2457.96	2466.00	0.5	PASS
11G	Ant1	2412	15.12	2404.40	2419.52	0.5	PASS
		2437	15.72	2429.40	2445.12	0.5	PASS
		2462	15.32	2454.40	2469.72	0.5	PASS
11N20SISO	Ant1	2412	15.68	2404.20	2419.88	0.5	PASS
		2437	15.12	2429.40	2444.52	0.5	PASS
		2462	15.12	2454.40	2469.52	0.5	PASS
11N40SISO	Ant1	2422	35.12	2404.40	2439.52	0.5	PASS
		2437	35.12	2419.40	2454.52	0.5	PASS
		2452	35.12	2434.40	2469.52	0.5	PASS

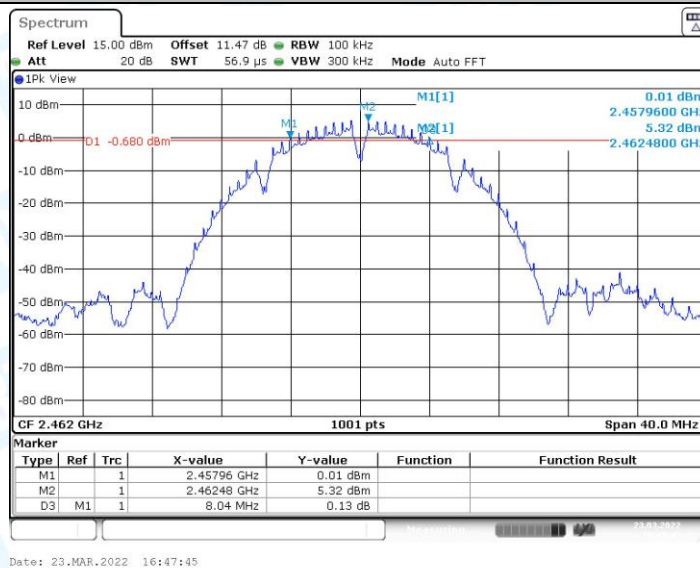
1.2. Test Graphs



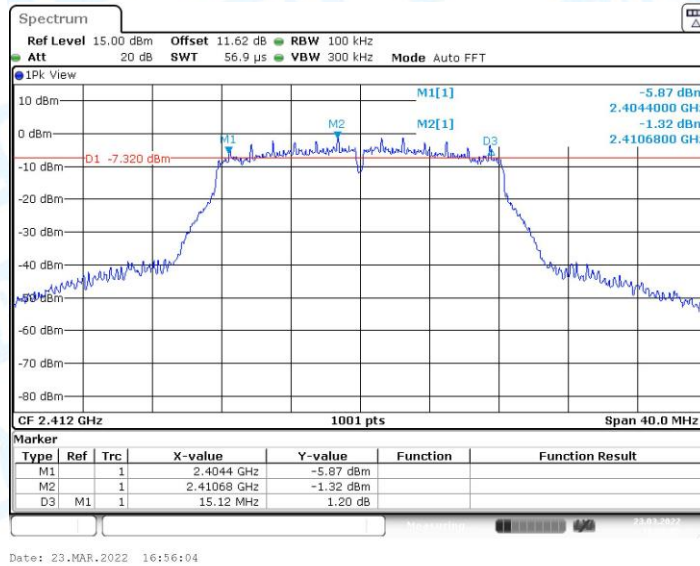
11B_Ant1_2412



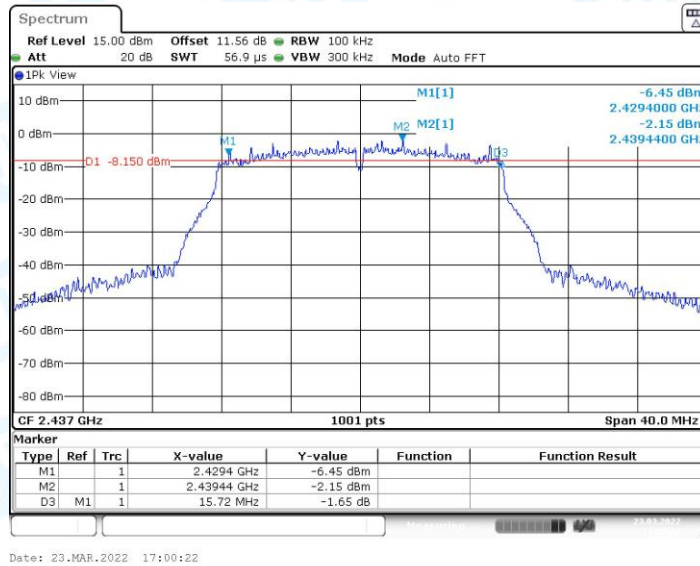
11B_Ant1_2437



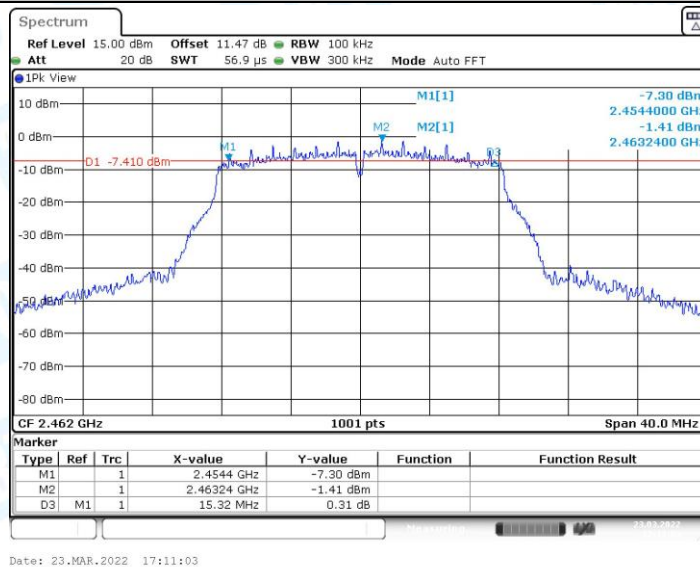
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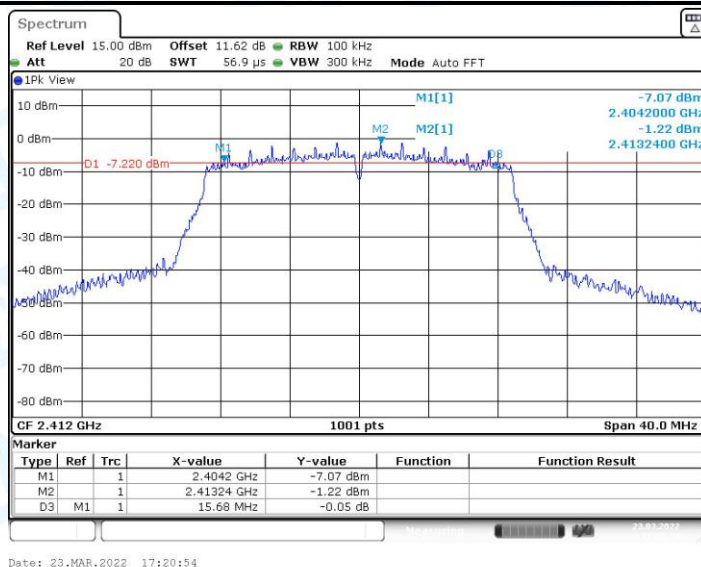
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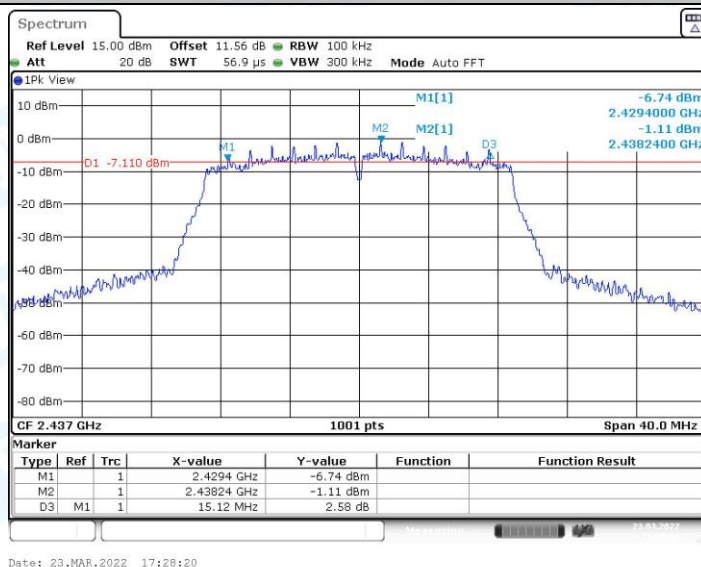
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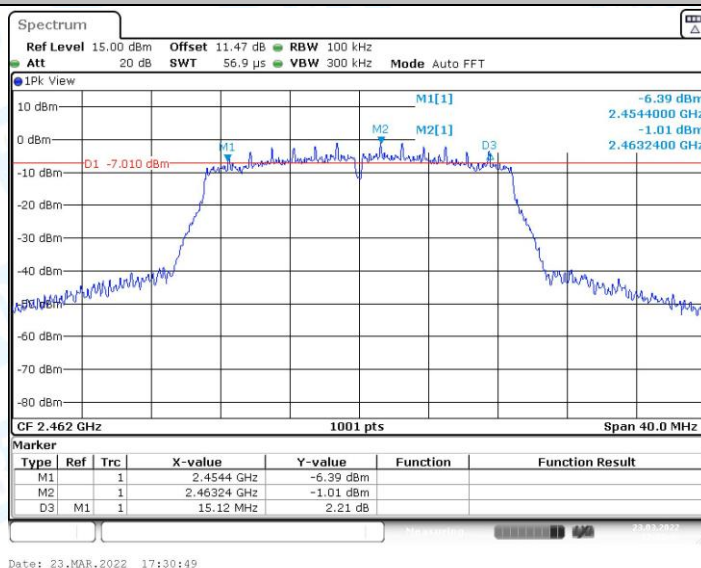
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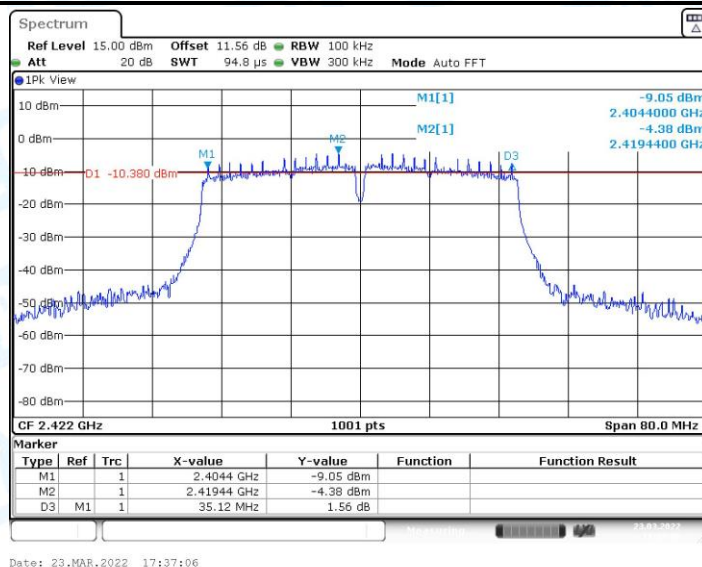
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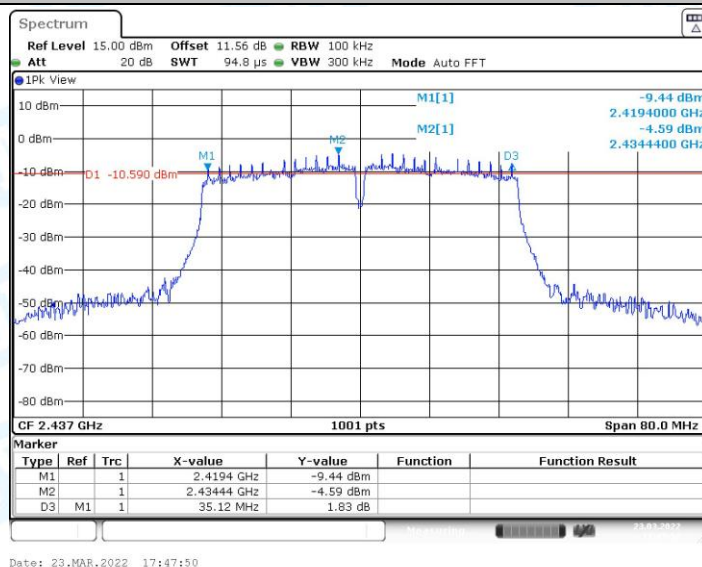
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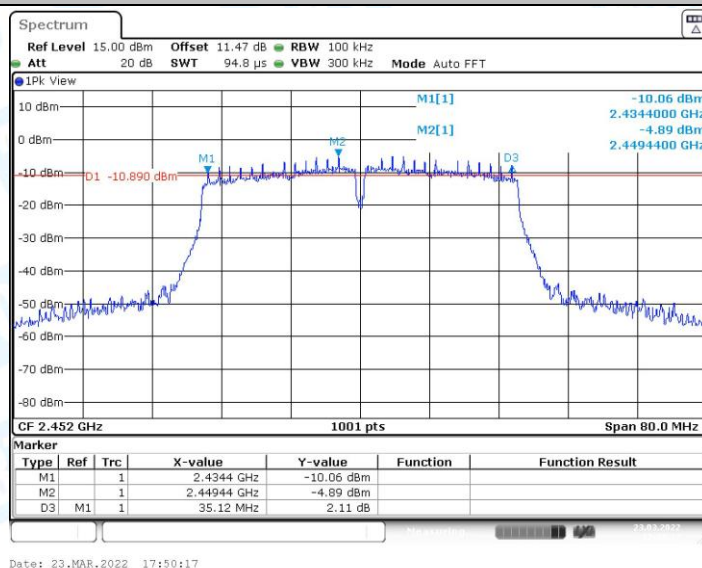
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



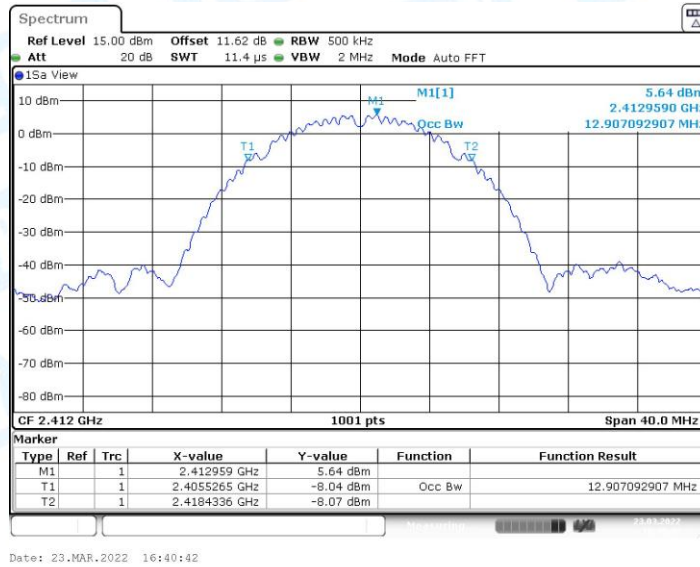
11N40SISO_Ant1_2452

2. Occupied channel bandwidth

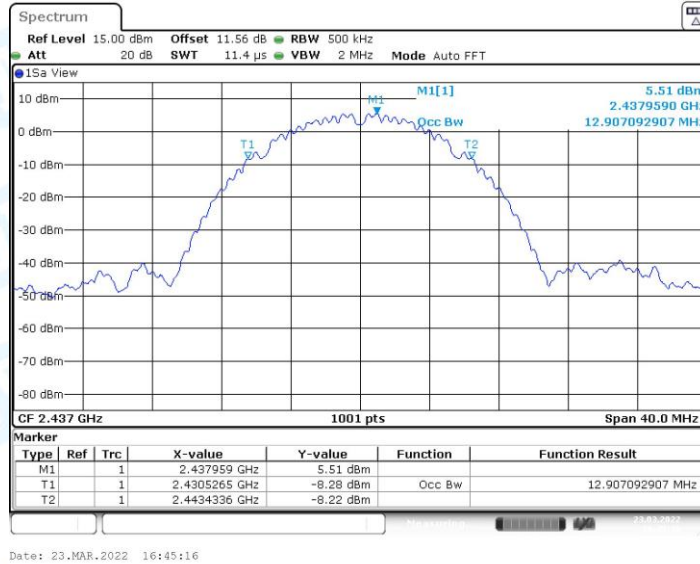
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.907	2405.526	2418.434	---	---
		2437	12.907	2430.526	2443.434	---	---
		2462	12.827	2455.606	2468.434	---	---
11G	Ant1	2412	16.903	2403.449	2420.352	---	---
		2437	17.023	2428.568	2445.591	---	---
		2462	16.823	2453.608	2470.432	---	---
11N20SISO	Ant1	2412	17.982	2402.929	2420.911	---	---
		2437	17.942	2428.049	2445.991	---	---
		2462	17.942	2453.089	2471.031	---	---
11N40SISO	Ant1	2422	36.603	2403.698	2440.302	---	---
		2437	36.124	2418.938	2455.062	---	---
		2452	36.444	2433.778	2470.222	---	---

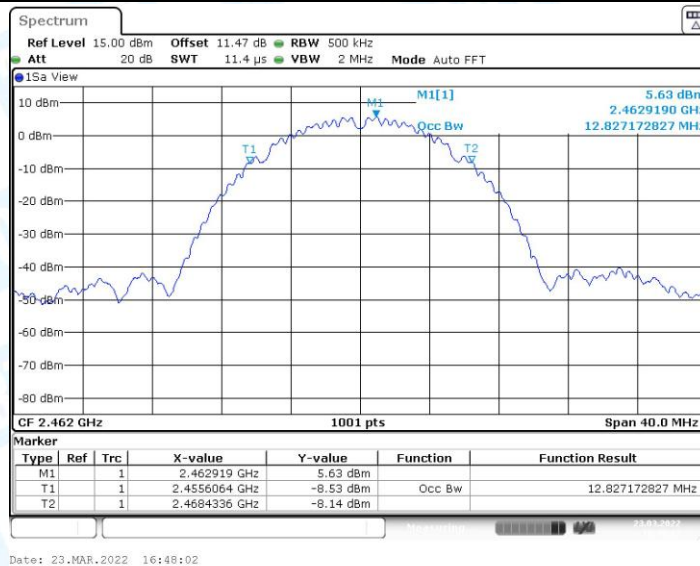
2.2. Test Graphs



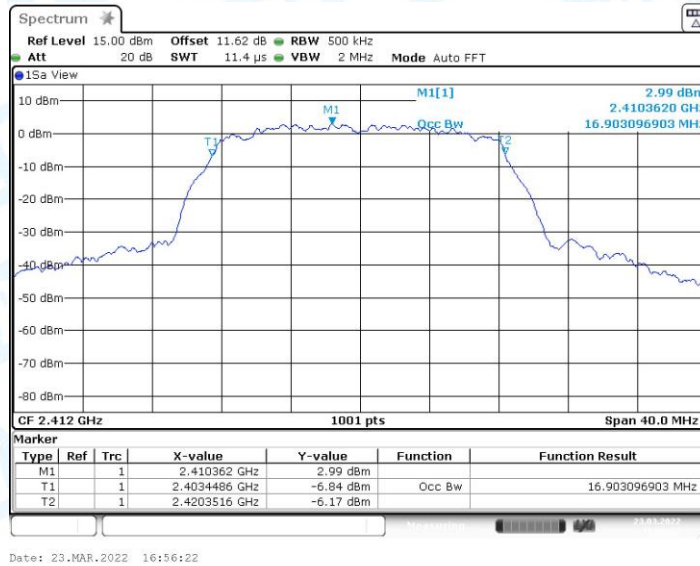
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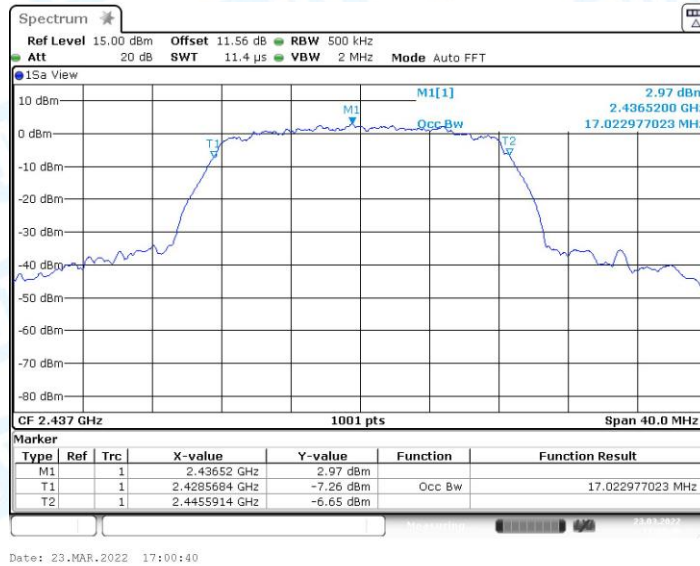
11B_Ant1_2437



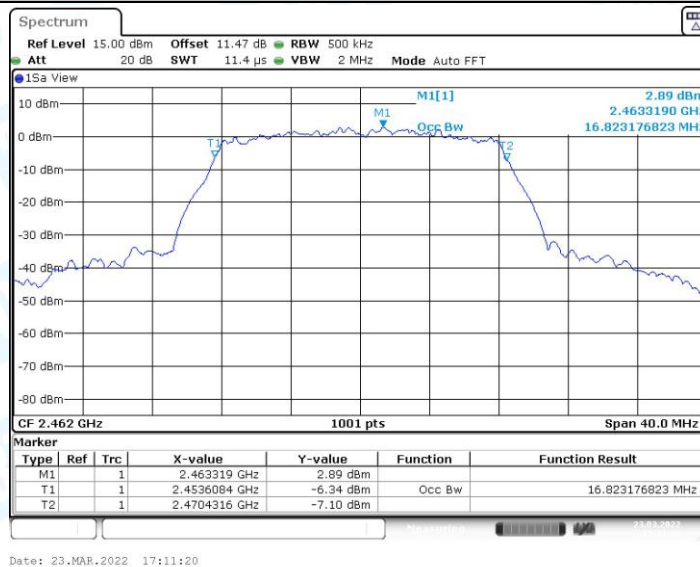
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



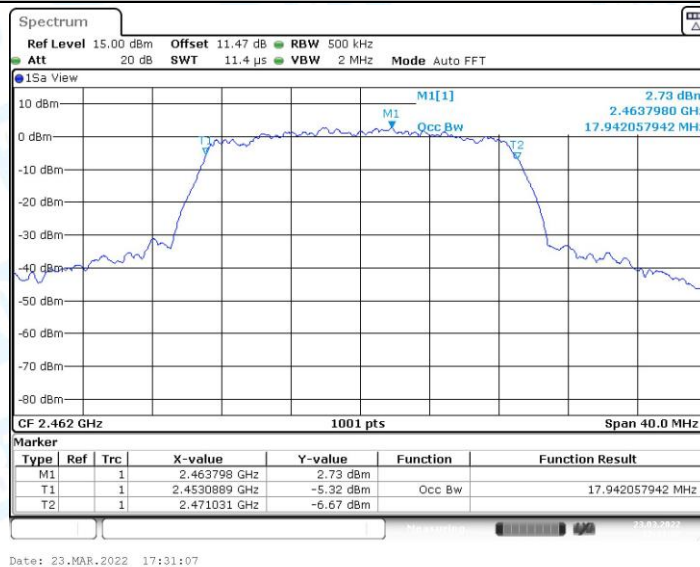
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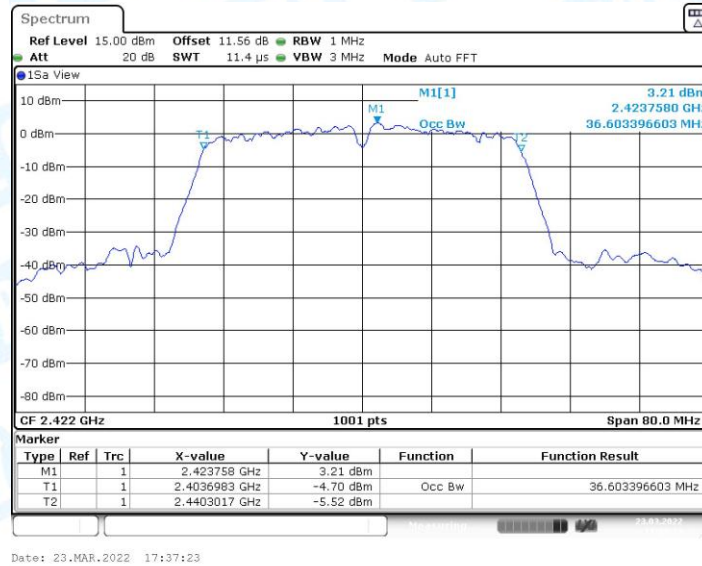
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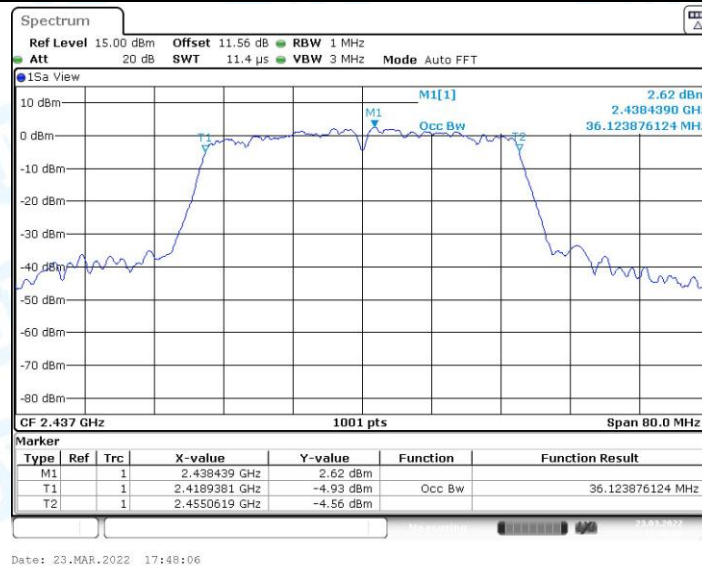
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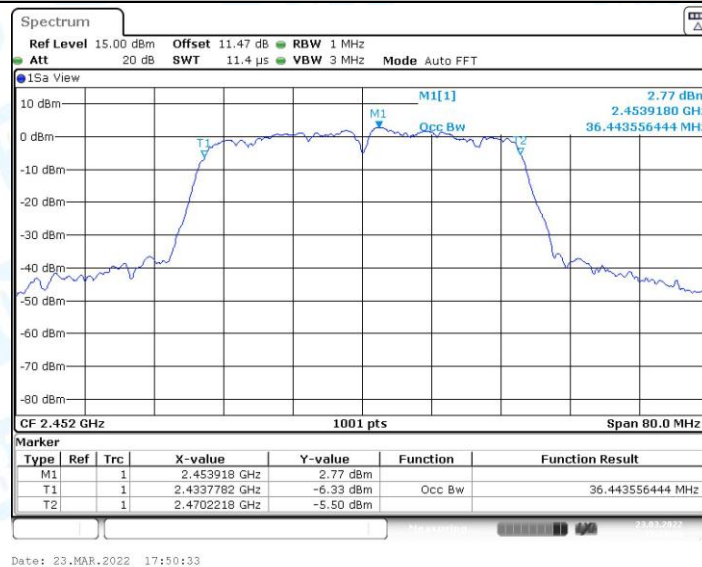
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

3. Maximum conducted output power

3.1. Test Result

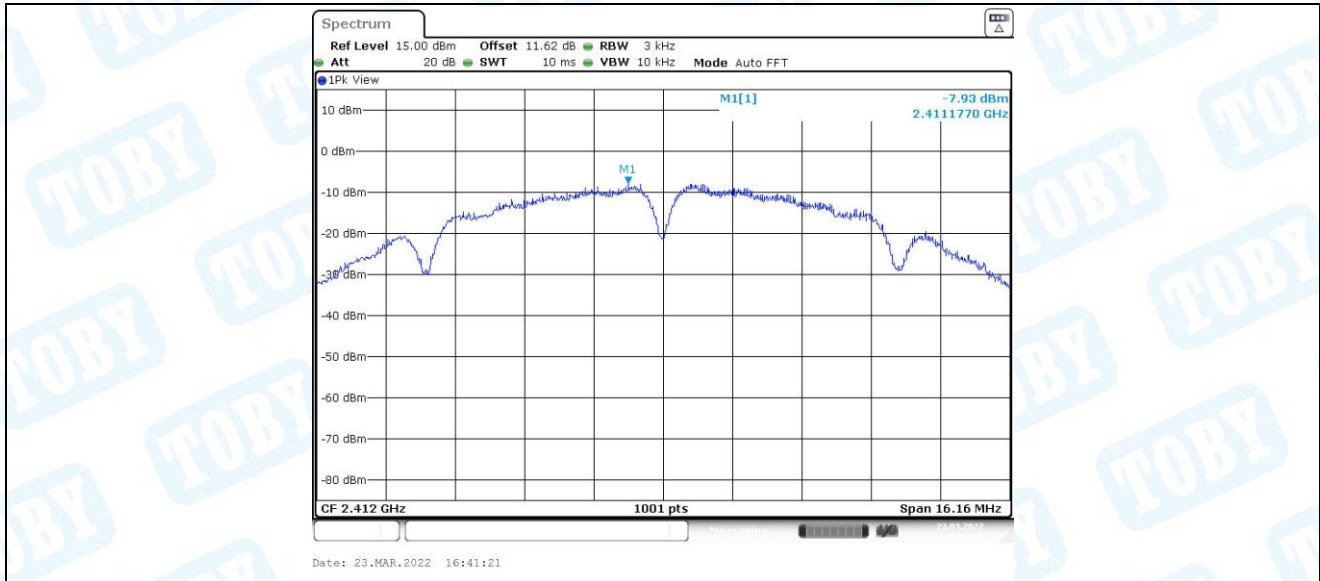
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.34	≤30.00	PASS
		2437	16.20	≤30.00	PASS
		2462	16.29	≤30.00	PASS
11G	Ant1	2412	17.49	≤30.00	PASS
		2437	17.29	≤30.00	PASS
		2462	17.30	≤30.00	PASS
11N20SISO	Ant1	2412	17.45	≤30.00	PASS
		2437	17.30	≤30.00	PASS
		2462	17.31	≤30.00	PASS
11N40SISO	Ant1	2422	16.89	≤30.00	PASS
		2437	16.68	≤30.00	PASS
		2452	16.52	≤30.00	PASS

4. Maximum power spectral density

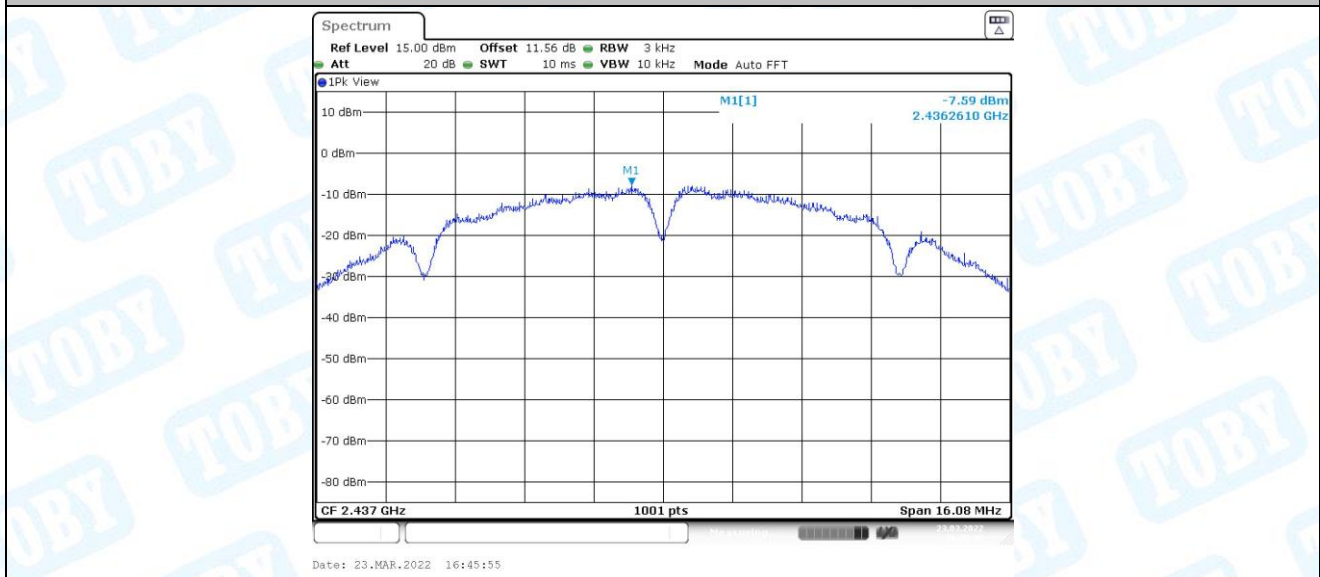
4.1. Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.93	≤8.00	PASS
		2437	-7.59	≤8.00	PASS
		2462	-7.57	≤8.00	PASS
11G	Ant1	2412	-14.31	≤8.00	PASS
		2437	-14.56	≤8.00	PASS
		2462	-12.76	≤8.00	PASS
11N20SISO	Ant1	2412	-14.48	≤8.00	PASS
		2437	-12.9	≤8.00	PASS
		2462	-13.74	≤8.00	PASS
11N40SISO	Ant1	2422	-18.74	≤8.00	PASS
		2437	-18.91	≤8.00	PASS
		2452	-19.14	≤8.00	PASS

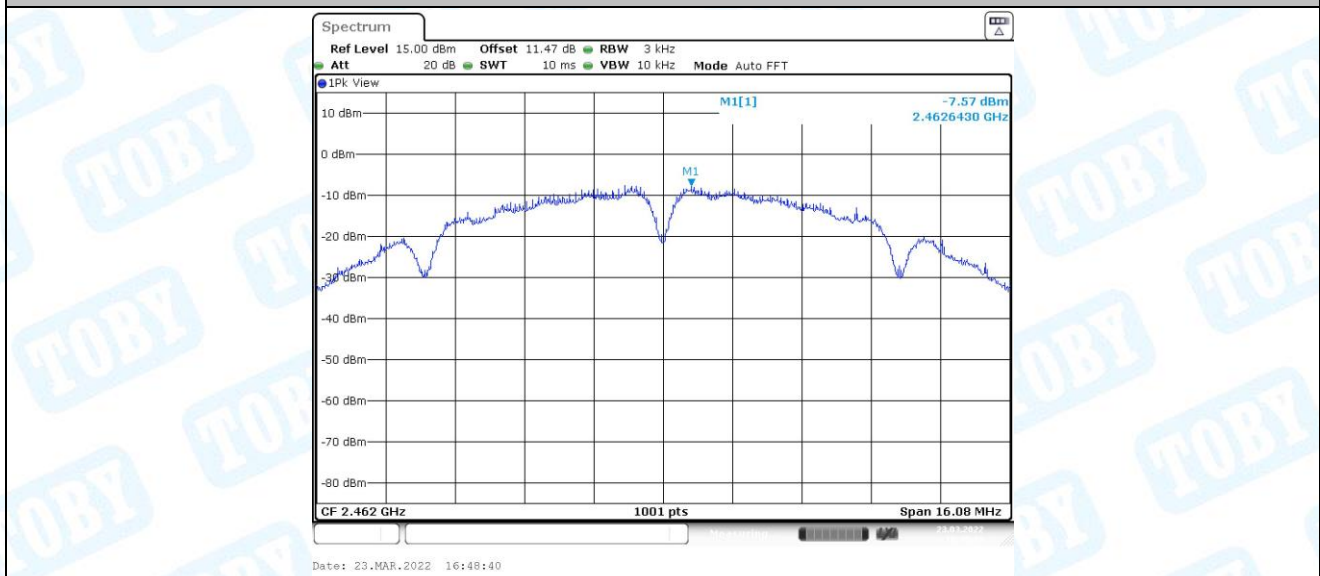
4.2. Test Graphs



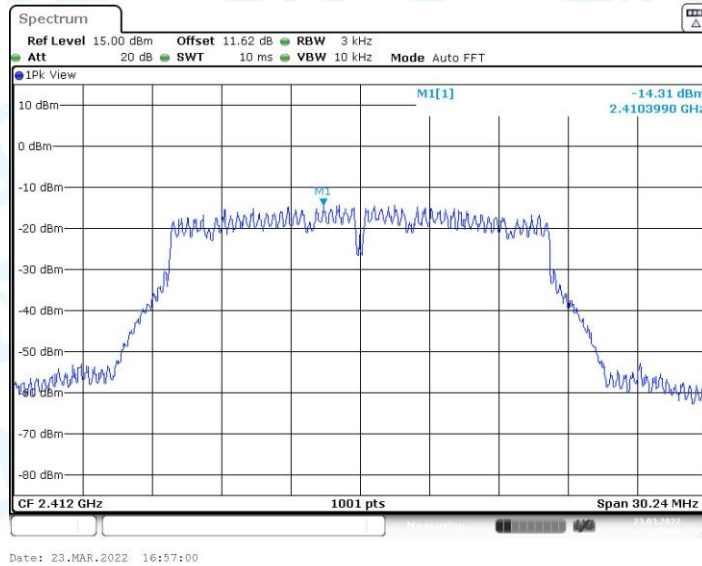
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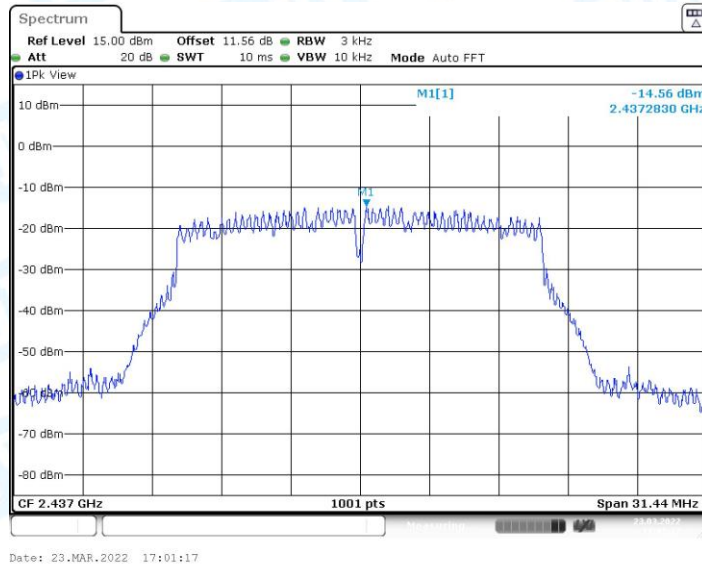
11B_Ant1_2437



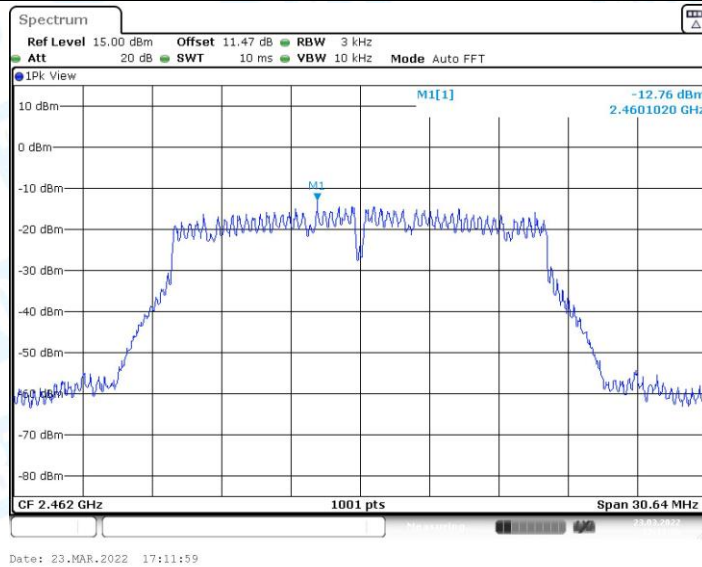
11B_Ant1_2462



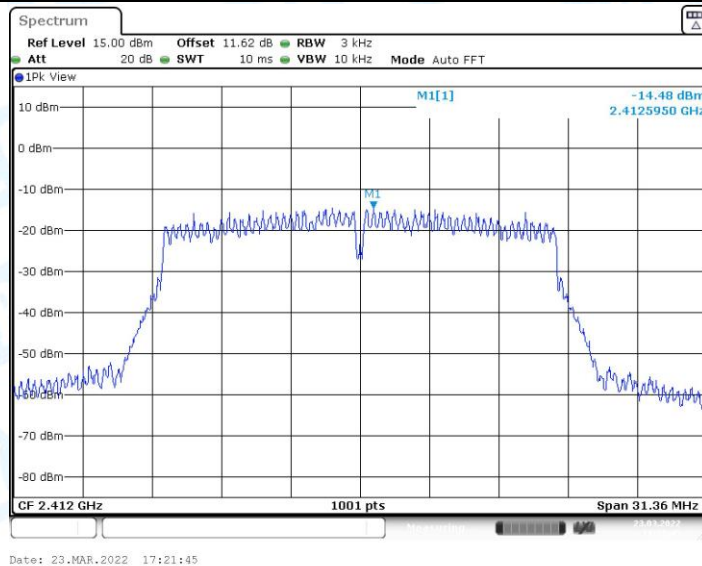
11G_Ant1_2412



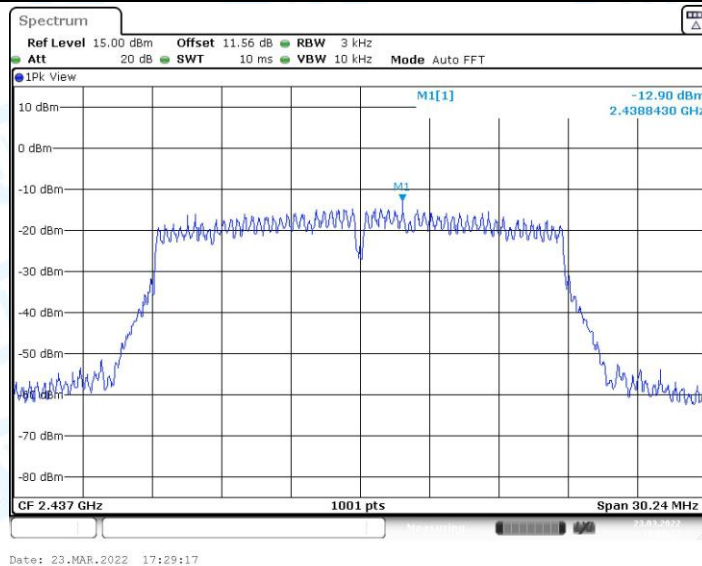
11G_Ant1_2437



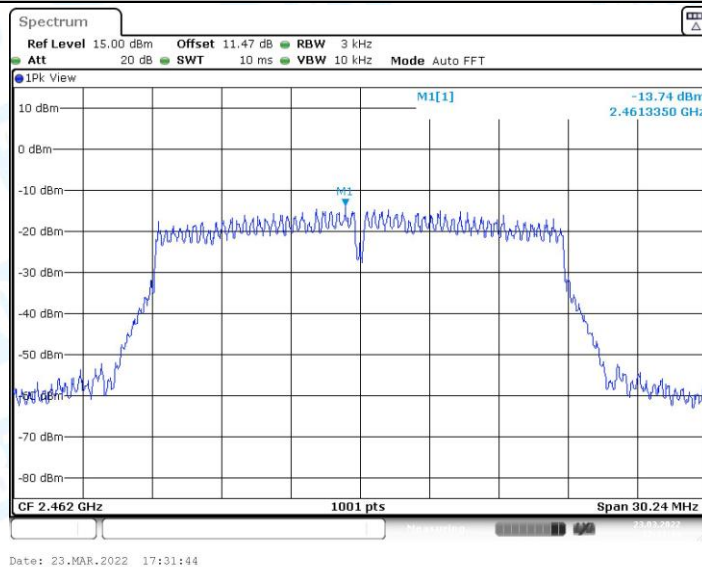
11G_Ant1_2462



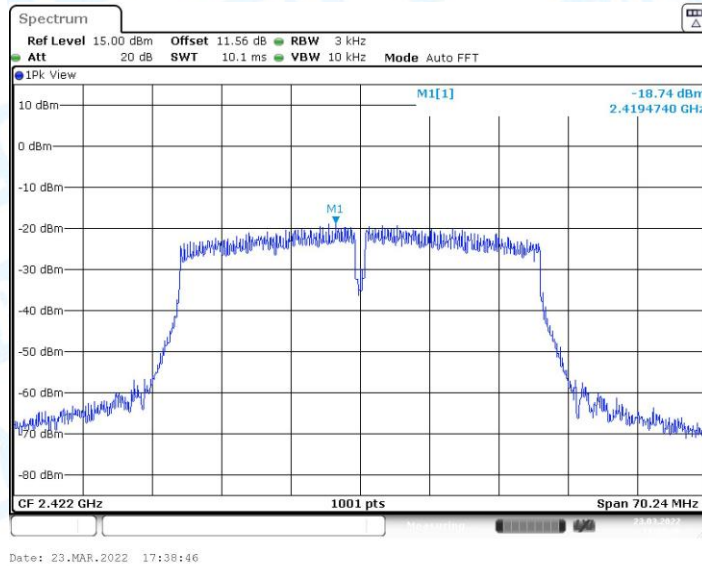
11N20SISO_Ant1_2412



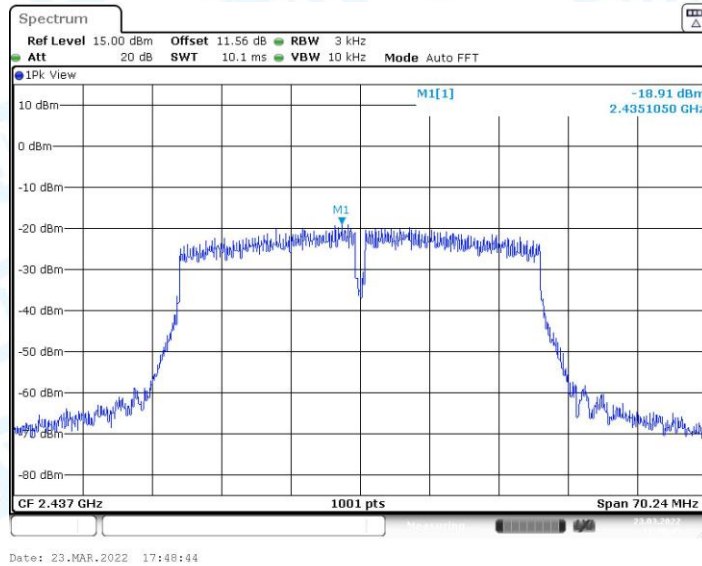
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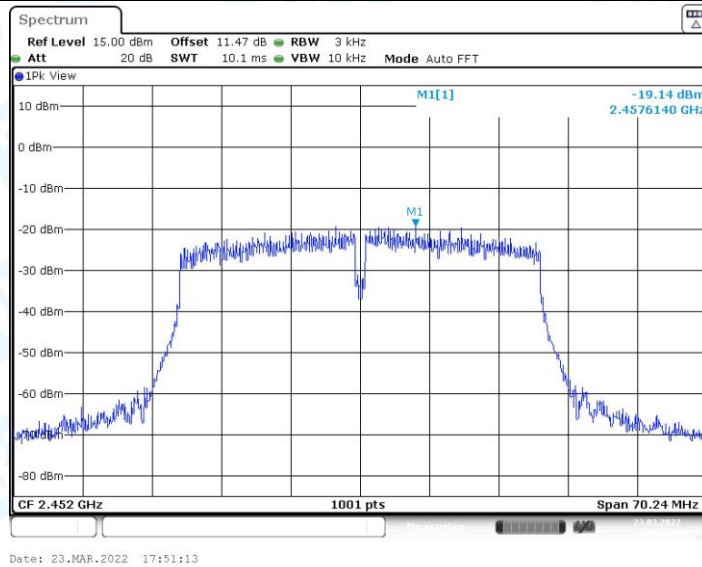
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



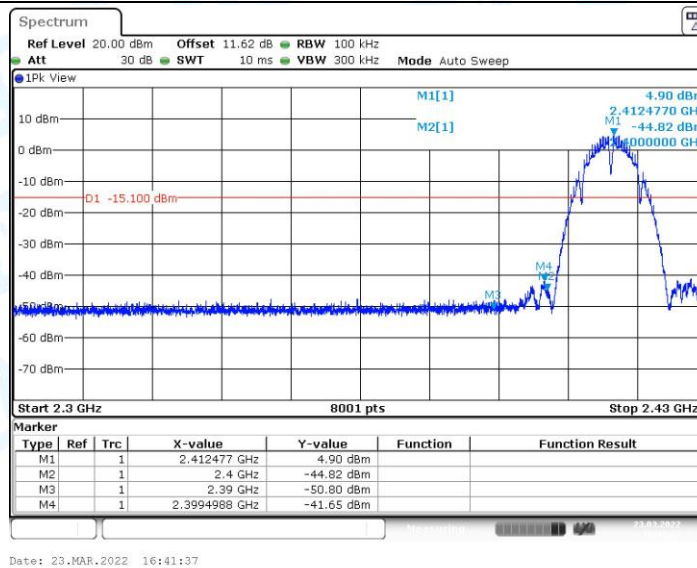
11N40SISO_Ant1_2452

5. Band edge measurements

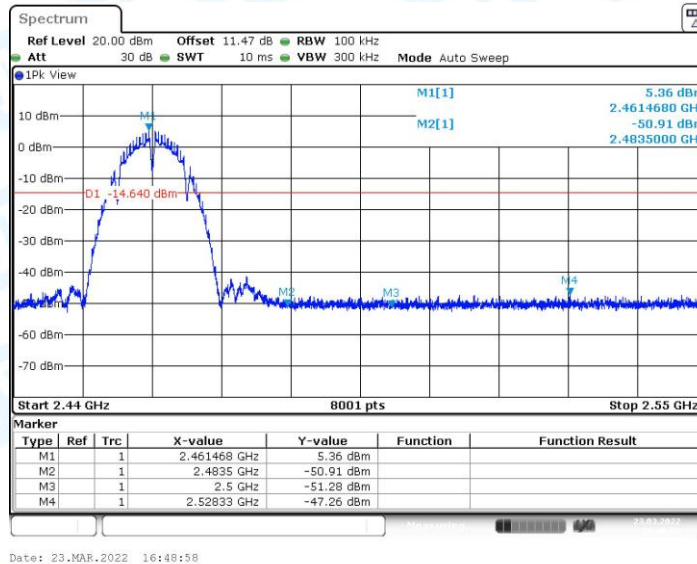
5.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.90	-41.65	≤ -15.1	PASS
		High	2462	5.36	-47.26	≤ -14.64	PASS
11G	Ant1	Low	2412	-1.20	-38.43	≤ -21.2	PASS
		High	2462	-1.49	-46.88	≤ -21.49	PASS
11N20SISO	Ant1	Low	2412	-0.92	-39.41	≤ -20.92	PASS
		High	2462	-1.23	-46.66	≤ -21.23	PASS
11N40SISO	Ant1	Low	2422	-4.48	-43.09	≤ -24.48	PASS
		High	2452	-4.89	-44.77	≤ -24.89	PASS

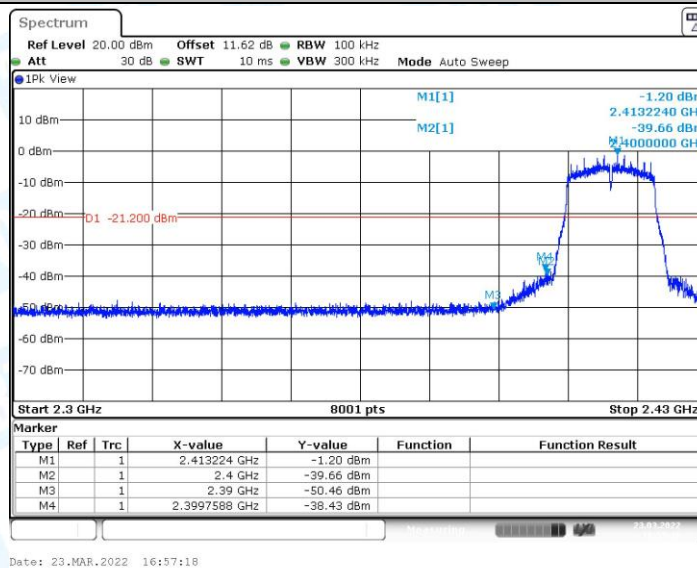
5.2. Test Graphs



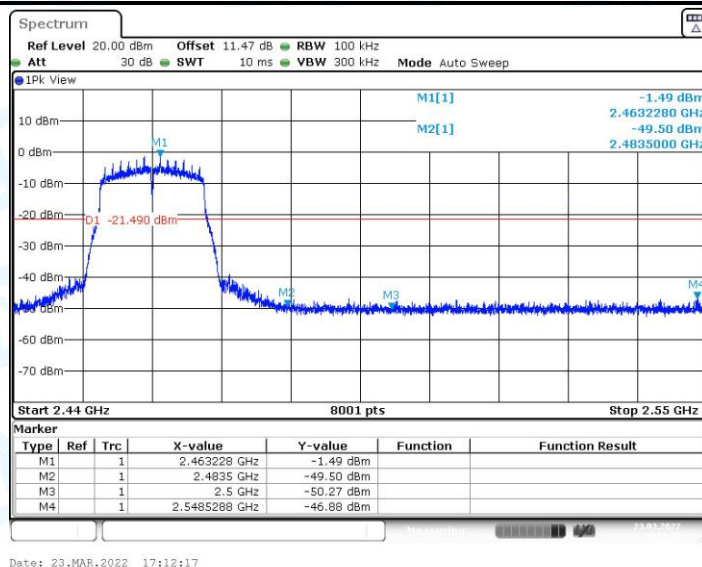
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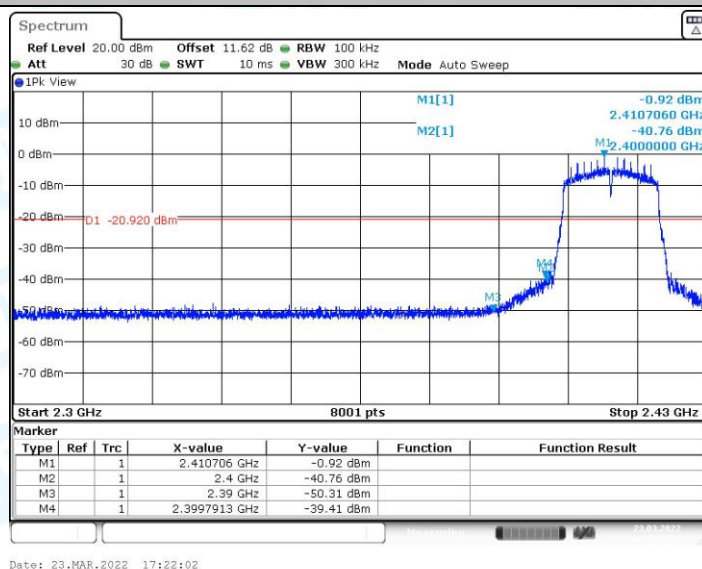
11B_Ant1_High_2462



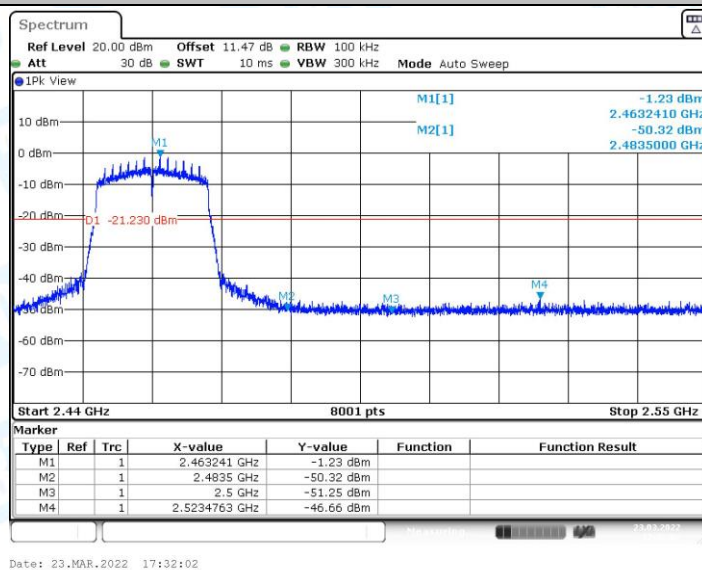
11G_Ant1_Low_2412



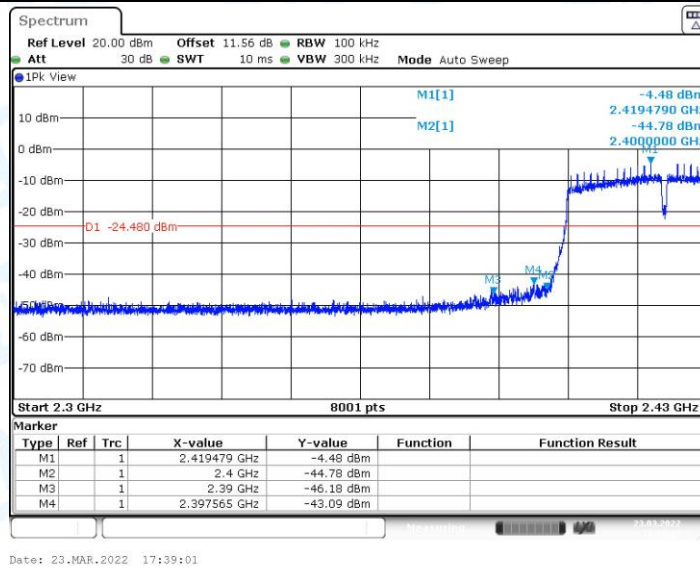
11G_Ant1_High_2462



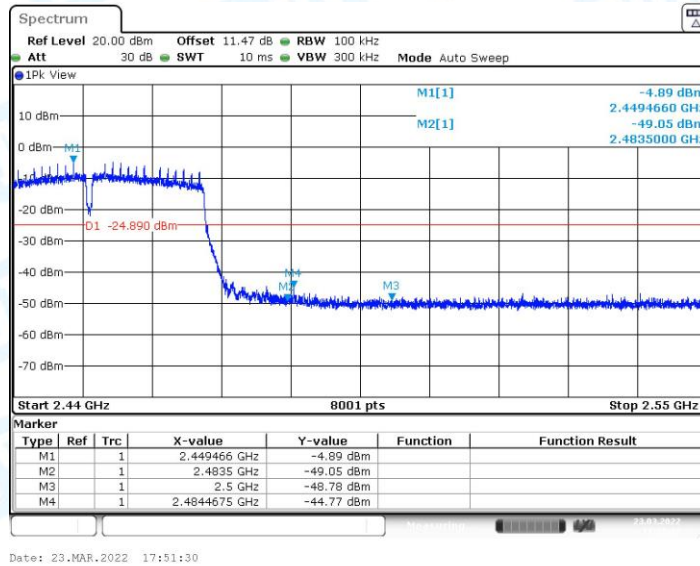
11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



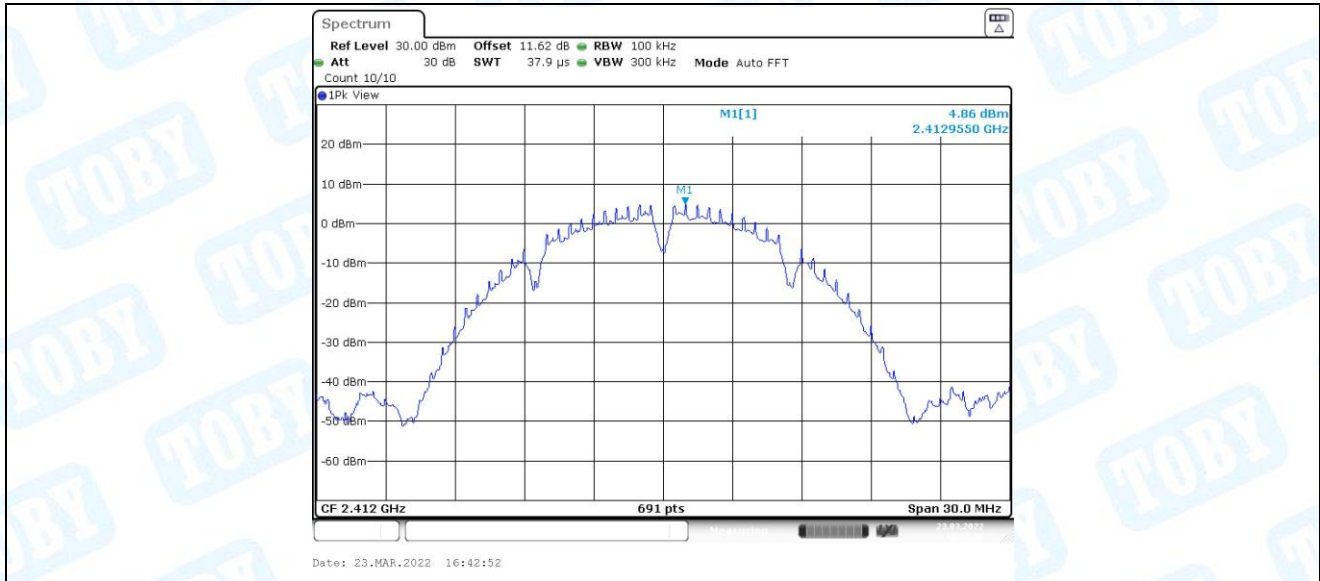
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6. Conducted spurious emission

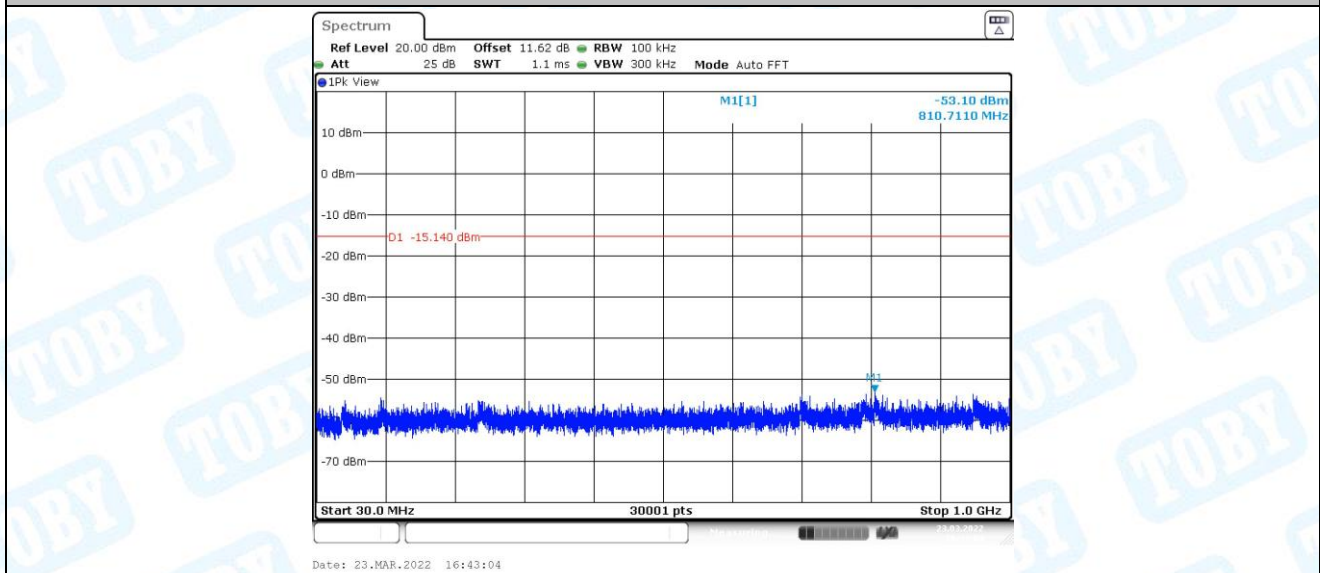
6.1. Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.86	4.86	---	PASS
			30~1000	4.86	-53.1	≤ -15.14	PASS
			1000~26500	4.86	-36.99	≤ -15.14	PASS
		2437	Reference	4.94	4.94	---	PASS
			30~1000	4.94	-53.17	≤ -15.06	PASS
			1000~26500	4.94	-39.05	≤ -15.06	PASS
		2462	Reference	4.92	4.92	---	PASS
			30~1000	4.92	-52.82	≤ -15.08	PASS
			1000~26500	4.92	-41.2	≤ -15.08	PASS
11G	Ant1	2412	Reference	-1.07	-1.07	---	PASS
			30~1000	-1.07	-52.67	≤ -21.07	PASS
			1000~26500	-1.07	-46.82	≤ -21.07	PASS
		2437	Reference	-1.32	-1.32	---	PASS
			30~1000	-1.32	-52.89	≤ -21.32	PASS
			1000~26500	-1.32	-47.14	≤ -21.32	PASS
		2462	Reference	-0.98	-0.98	---	PASS
			30~1000	-0.98	-53.57	≤ -20.98	PASS
			1000~26500	-0.98	-46.75	≤ -20.98	PASS
11N20SISO	Ant1	2412	Reference	-1.07	-1.07	---	PASS
			30~1000	-1.07	-52.9	≤ -21.07	PASS
			1000~26500	-1.07	-47.39	≤ -21.07	PASS
		2437	Reference	-1.57	-1.57	---	PASS
			30~1000	-1.57	-52.63	≤ -21.57	PASS
			1000~26500	-1.57	-47.1	≤ -21.57	PASS
		2462	Reference	-1.15	-1.15	---	PASS
			30~1000	-1.15	-53.67	≤ -21.15	PASS
			1000~26500	-1.15	-46.94	≤ -21.15	PASS
11N40SISO	Ant1	2422	Reference	-4.76	-4.76	---	PASS
			30~1000	-4.76	-52.71	≤ -24.76	PASS
			1000~26500	-4.76	-46.82	≤ -24.76	PASS
		2437	Reference	-4.64	-4.64	---	PASS
			30~1000	-4.64	-52.59	≤ -24.64	PASS
			1000~26500	-4.64	-47.44	≤ -24.64	PASS
		2452	Reference	-5.02	-5.02	---	PASS
			30~1000	-5.02	-53.53	≤ -25.02	PASS
			1000~26500	-5.02	-47.45	≤ -25.02	PASS

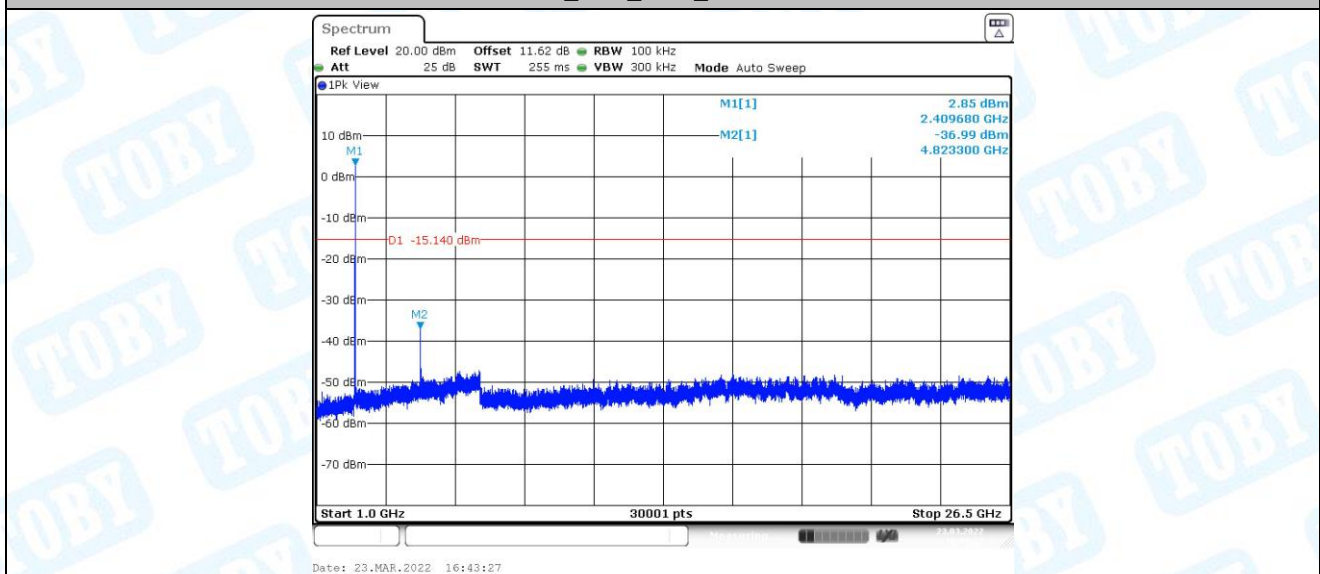
6.2.Test Graphs



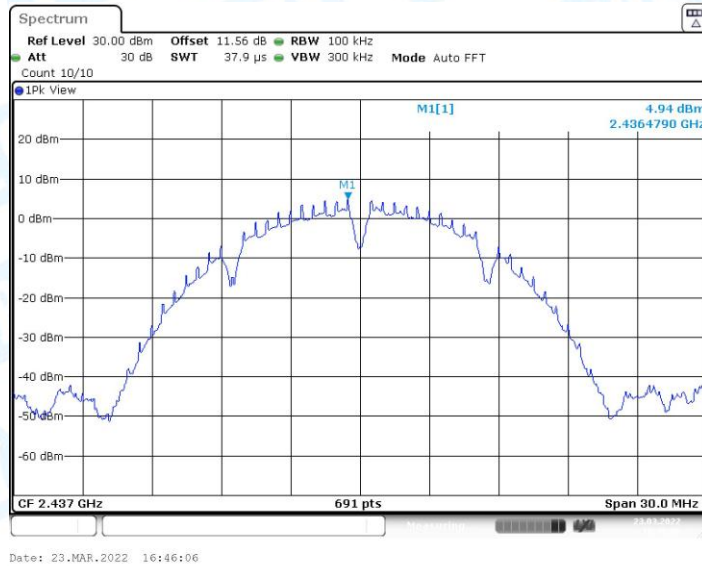
11B_Ant1_2412_0~Reference



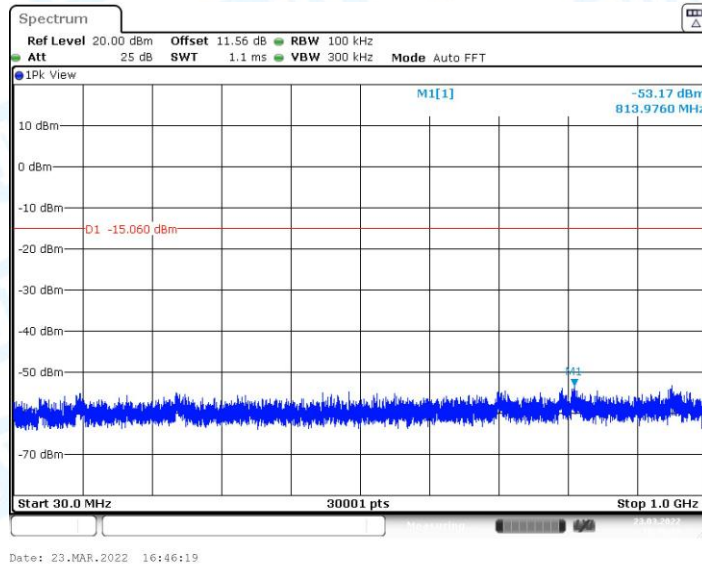
11B_Ant1_2412_30~1000



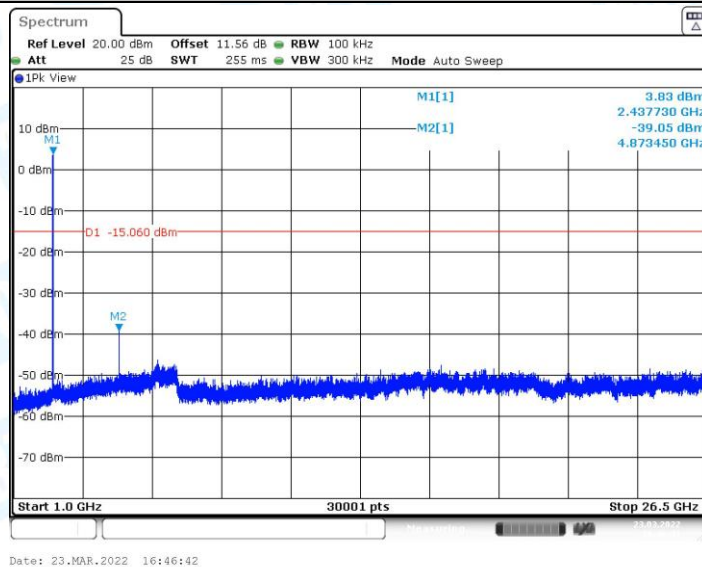
11B_Ant1_2412_1000~26500



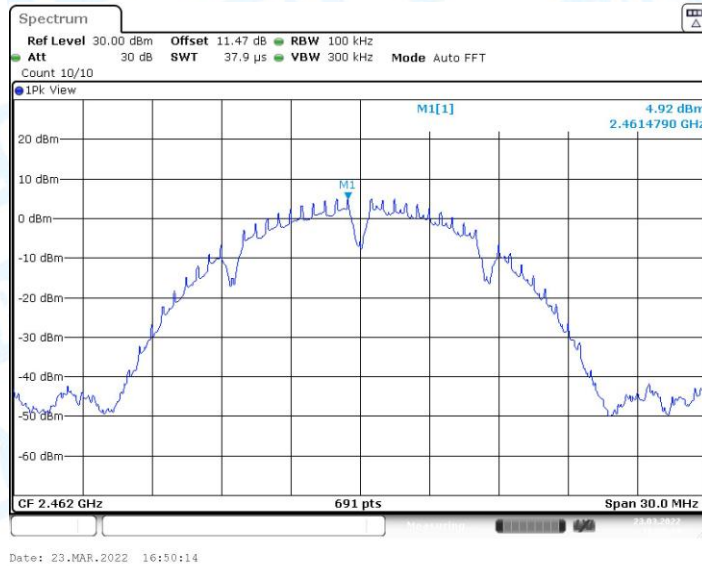
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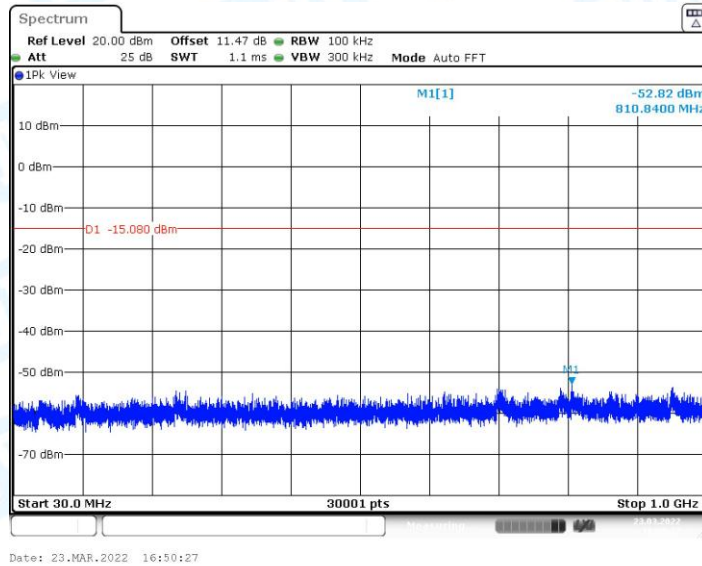
11B_Ant1_2437_30~1000



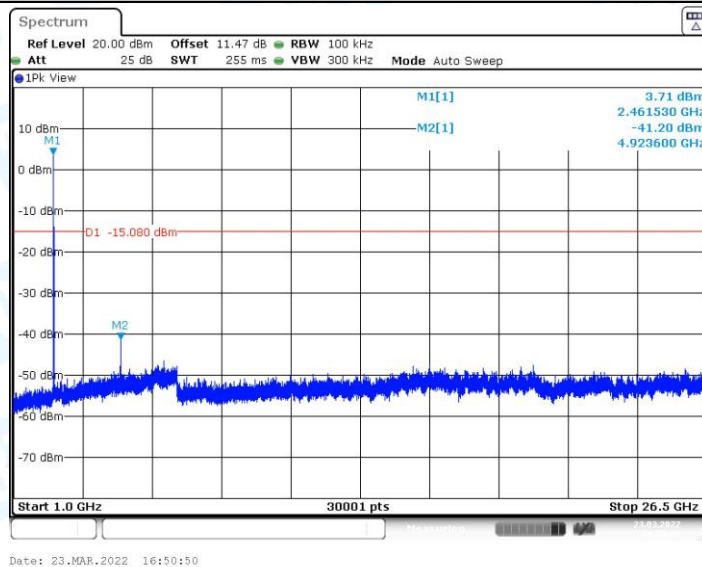
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500