

RF Test Data for 5G Wi-Fi (Conducted Measurements)

General Description of EUT	
Product Name:	Wireless Network Video Recorder
Test Model:	WNVR-FWR8G1-8
Sample ID:	HC-C-202403-0339-01-01-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	AC 120V
Test Engineer:	ZKN zhou
Note: For a more detailed features description, please refer to the report TBR-C-202403-0339-33	

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1. Emission Bandwidth

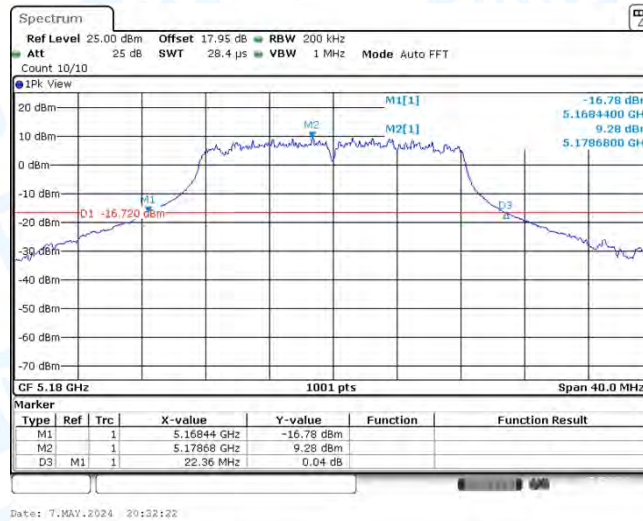
1.1. Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	22.36	5168.44	5190.80	---	---
		5200	22.76	5188.44	5211.20	---	---
		5240	22.92	5228.20	5251.12	---	---
		5260	22.64	5248.68	5271.32	---	---
		5280	22.92	5268.52	5291.44	---	---
		5320	22.36	5308.92	5331.28	---	---
		5500	23.48	5488.08	5511.56	---	---
		5580	23.84	5568.68	5592.52	---	---
		5700	23.72	5688.20	5711.92	---	---
11N20SISO	Ant1	5180	23.96	5167.80	5191.76	---	---
		5200	23.80	5188.32	5212.12	---	---
		5240	25.20	5227.72	5252.92	---	---
		5260	24.52	5247.60	5272.12	---	---
		5280	24.48	5267.24	5291.72	---	---
		5320	24.04	5307.92	5331.96	---	---
		5500	25.08	5487.52	5512.60	---	---
		5580	25.20	5568.00	5593.20	---	---
		5700	25.48	5687.48	5712.96	---	---
11N40SISO	Ant1	5190	45.68	5167.68	5213.36	---	---
		5230	45.52	5207.04	5252.56	---	---
		5270	45.28	5247.44	5292.72	---	---
		5310	44.08	5288.24	5332.32	---	---
		5510	46.16	5487.28	5533.44	---	---
		5550	56.24	5526.48	5582.72	---	---
		5670	45.84	5647.44	5693.28	---	---
11AC20SISO	Ant1	5180	24.44	5167.72	5192.16	---	---
		5200	24.00	5188.08	5212.08	---	---
		5240	23.40	5228.04	5251.44	---	---
		5260	24.00	5248.00	5272.00	---	---
		5280	24.04	5268.24	5292.28	---	---
		5320	25.64	5307.72	5333.36	---	---
		5500	24.20	5487.80	5512.00	---	---
		5580	25.64	5567.32	5592.96	---	---
		5700	24.68	5687.60	5712.28	---	---
11AC40SISO	Ant1	5190	43.60	5168.72	5212.32	---	---
		5230	45.04	5207.20	5252.24	---	---
		5270	46.24	5247.20	5293.44	---	---
		5310	44.64	5288.00	5332.64	---	---
		5510	46.96	5486.72	5533.68	---	---
		5550	47.60	5527.28	5574.88	---	---

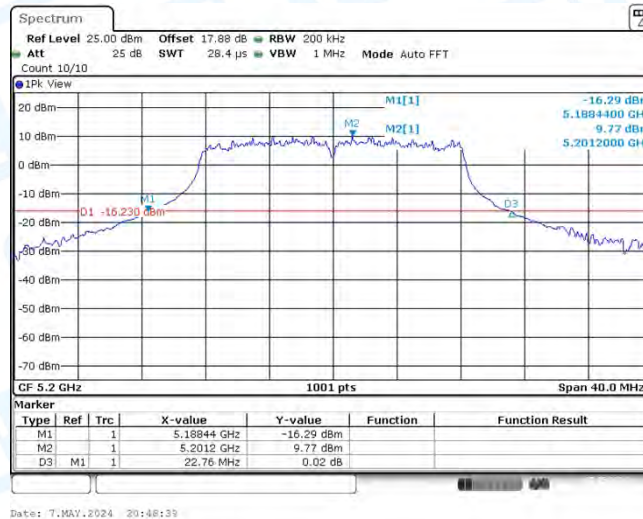
		5670	46.88	5646.56	5693.44	---	---
11AX20SISO	Ant1	5180	24.48	5167.96	5192.44	---	---
		5200	23.76	5187.28	5211.04	---	---
		5240	23.48	5227.80	5251.28	---	---
		5260	23.96	5247.56	5271.52	---	---
		5280	23.72	5267.92	5291.64	---	---
		5320	23.60	5308.16	5331.76	---	---
		5500	24.36	5487.64	5512.00	---	---
		5580	26.48	5566.68	5593.16	---	---
		5700	25.64	5687.52	5713.16	---	---
11AX40SISO	Ant1	5190	43.44	5168.32	5211.76	---	---
		5230	43.76	5207.60	5251.36	---	---
		5270	42.96	5248.00	5290.96	---	---
		5310	43.36	5289.04	5332.40	---	---
		5510	46.72	5487.04	5533.76	---	---
		5550	42.72	5528.72	5571.44	---	---
		5670	46.96	5645.12	5692.08	---	---

2.1.Test Graphs

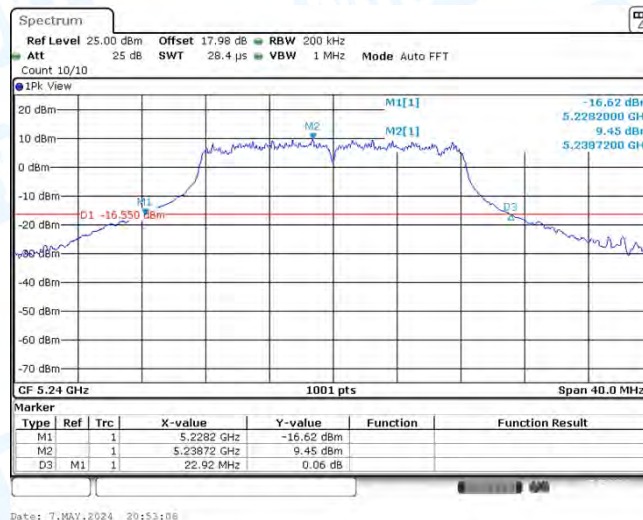
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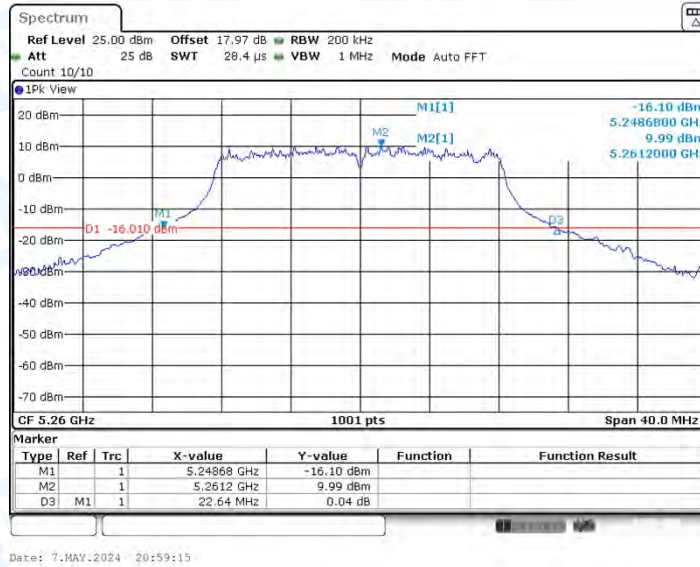
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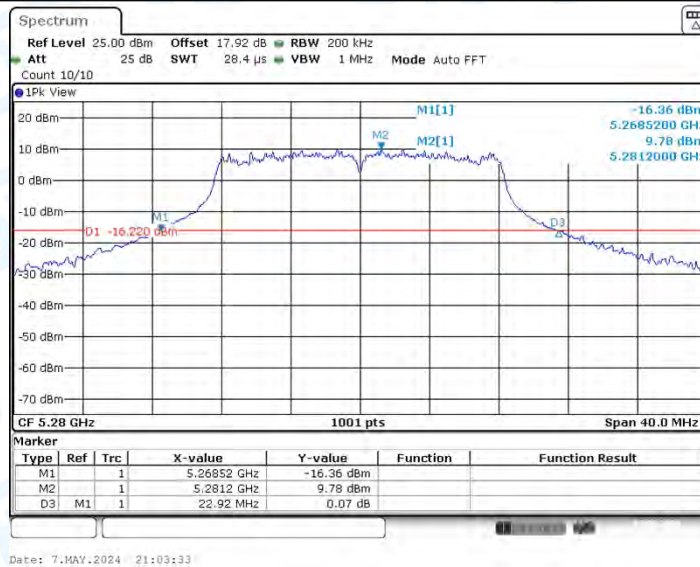
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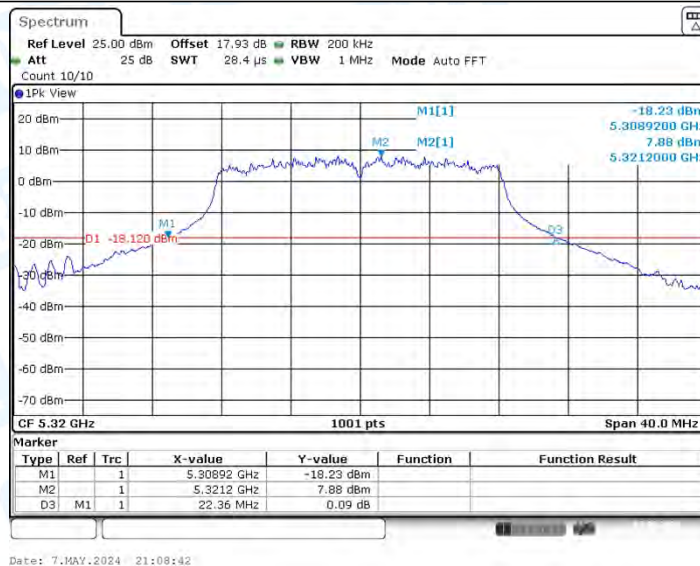
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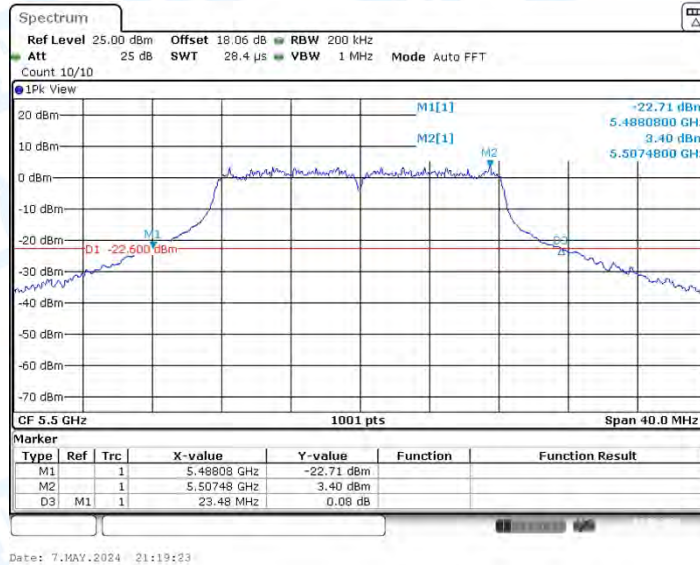
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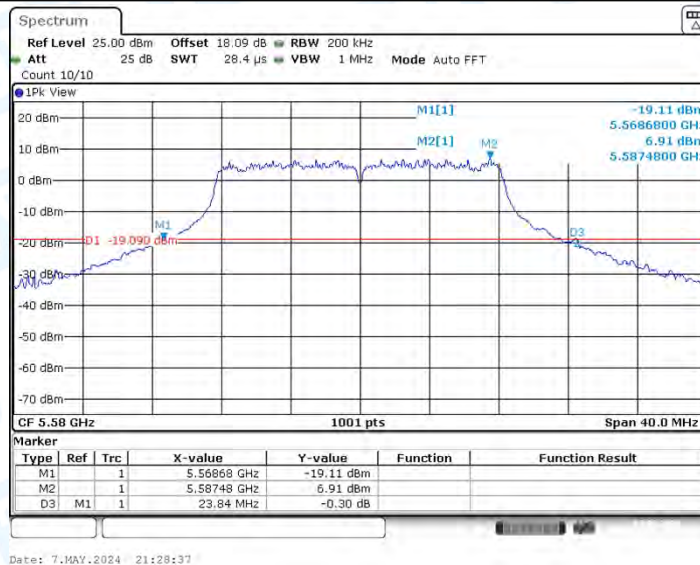
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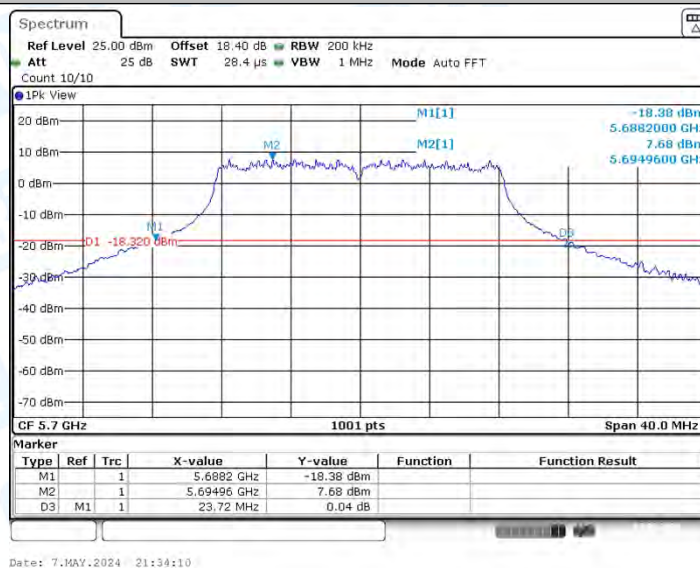
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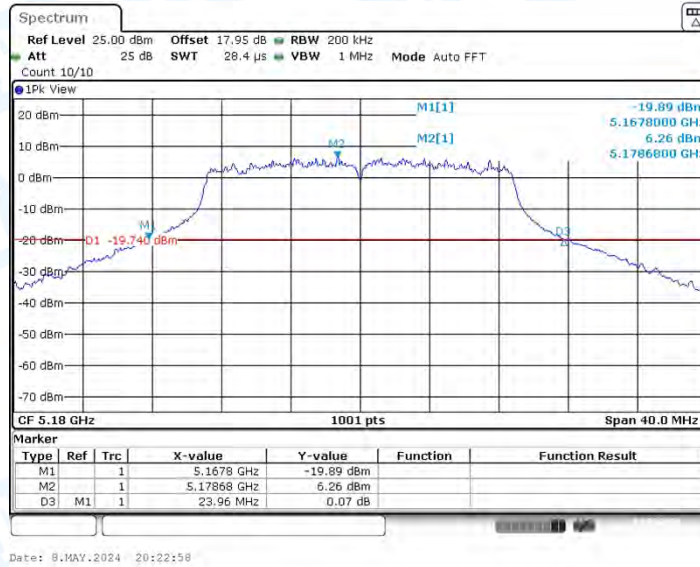
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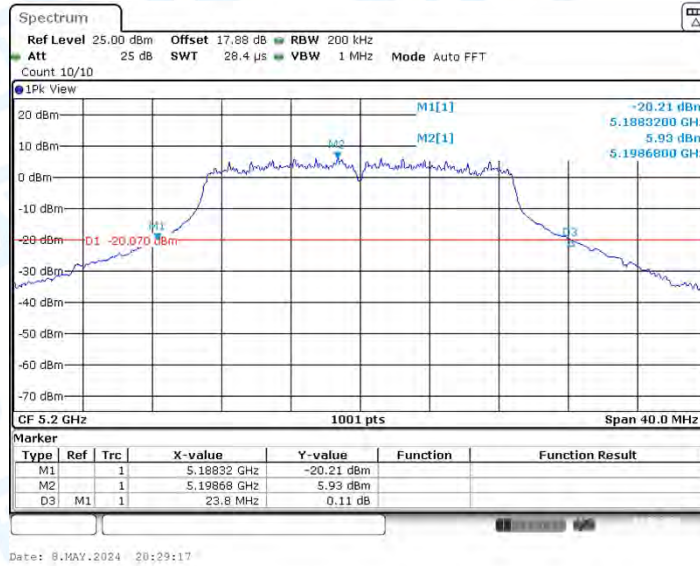
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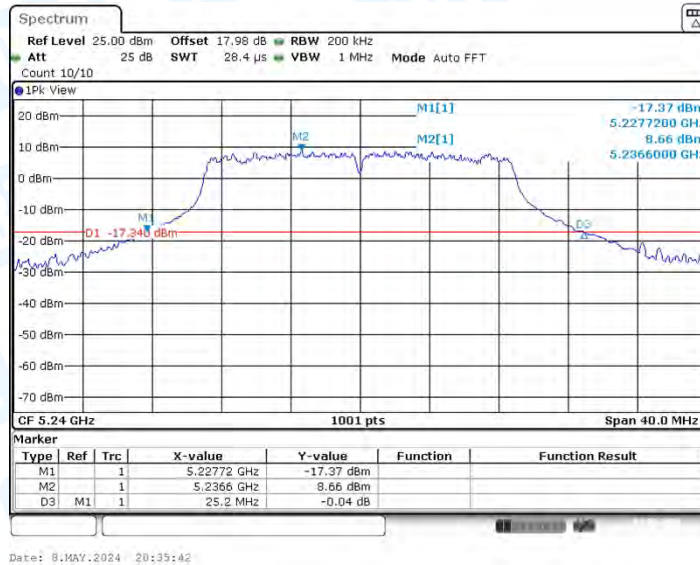
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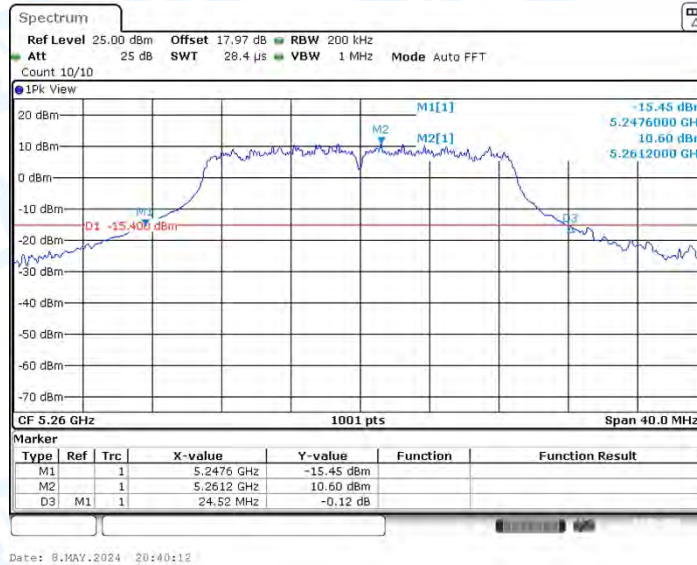
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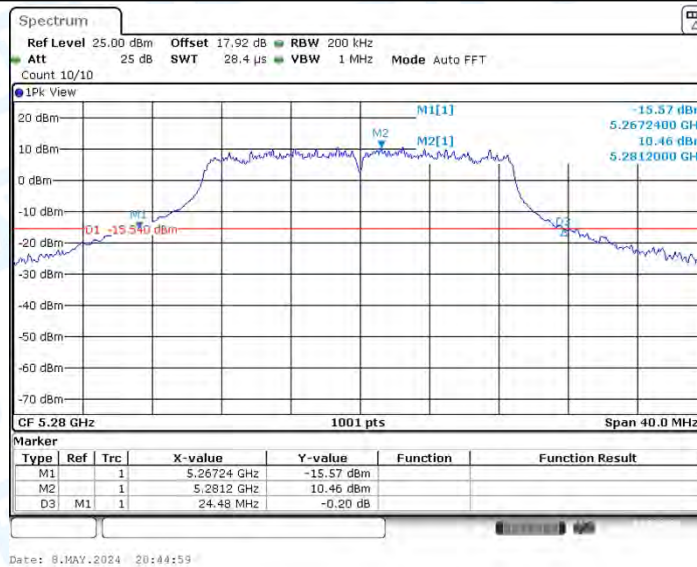
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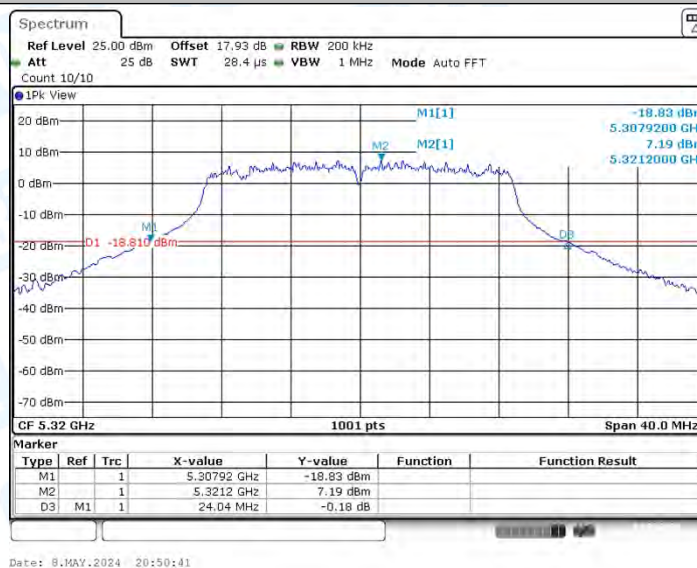
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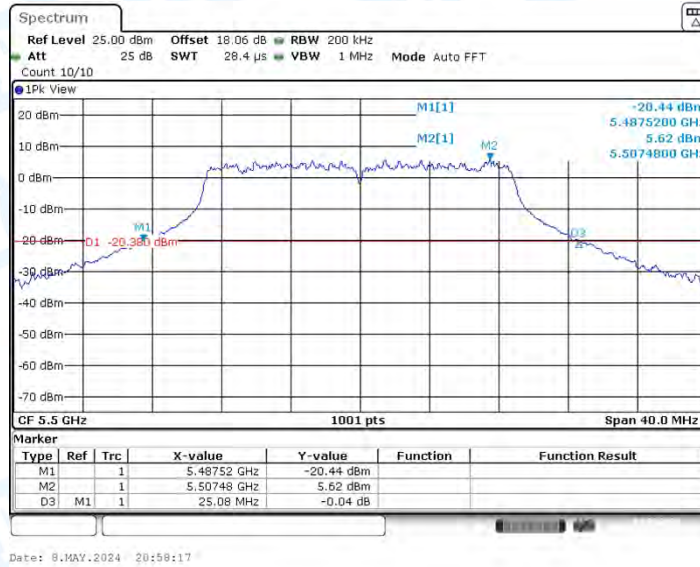
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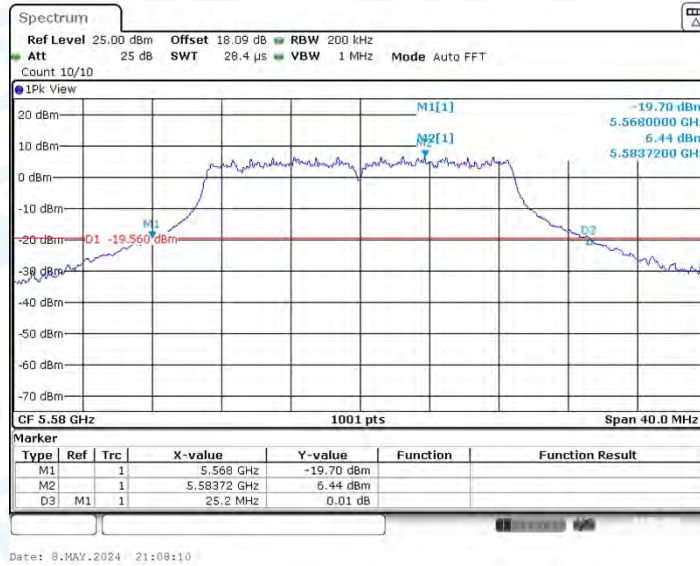
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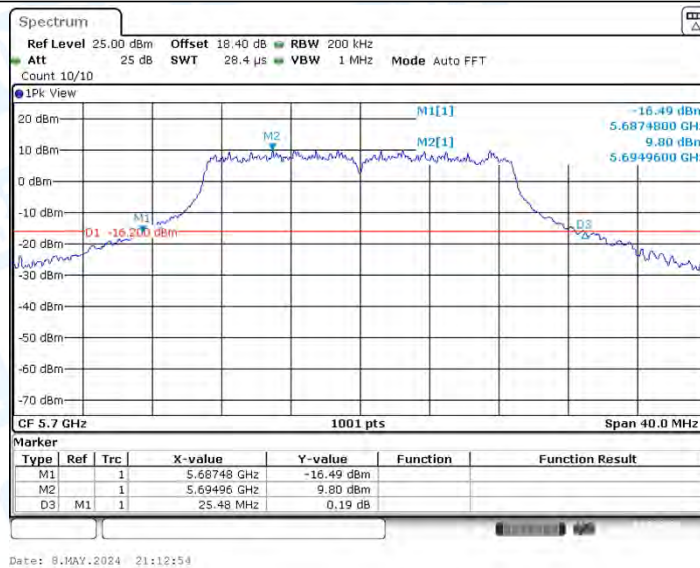
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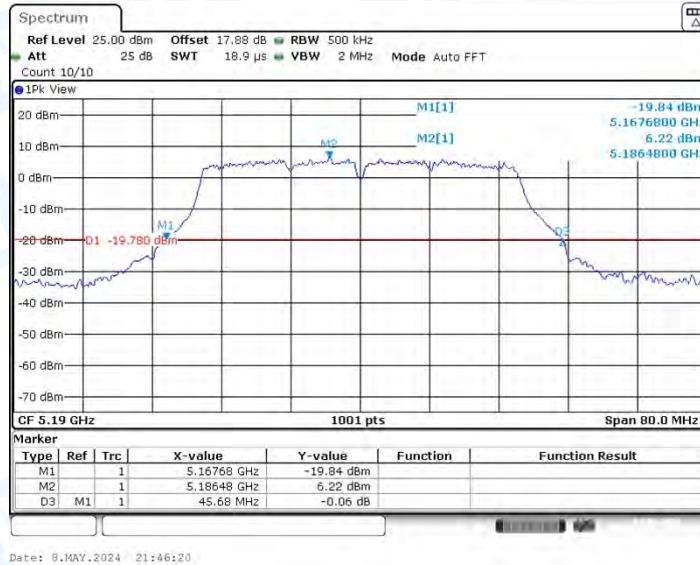
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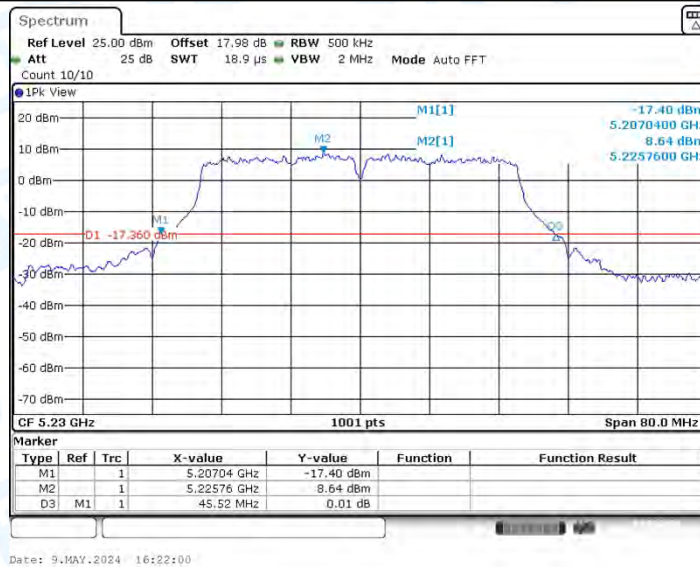
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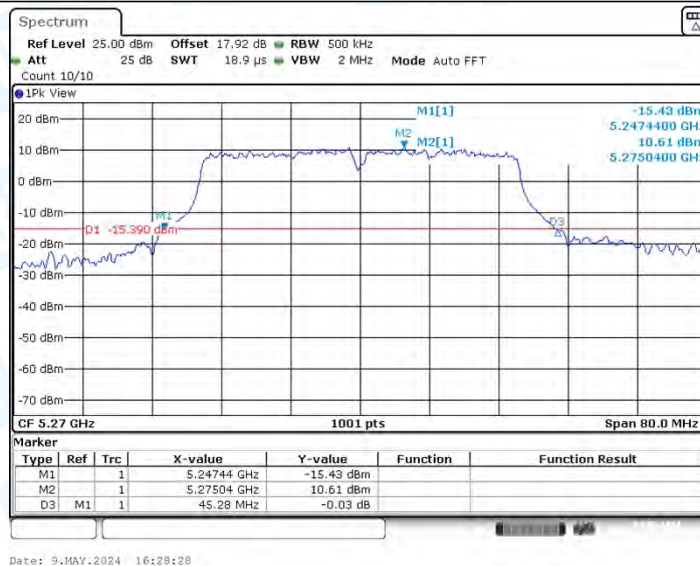
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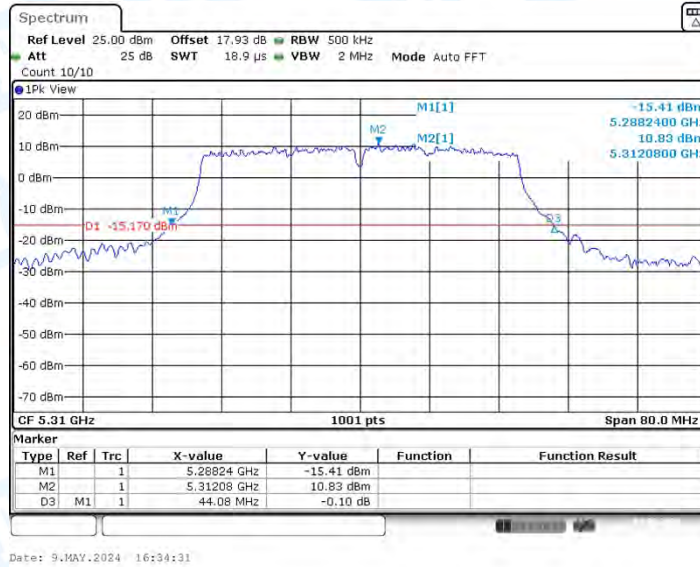
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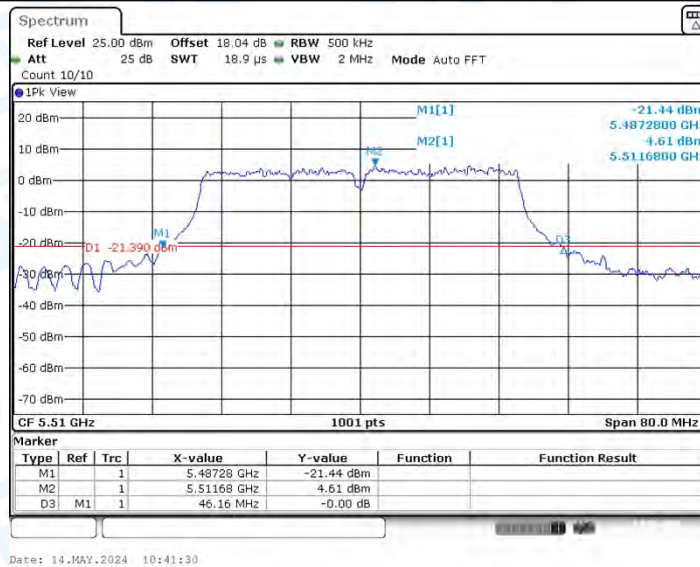
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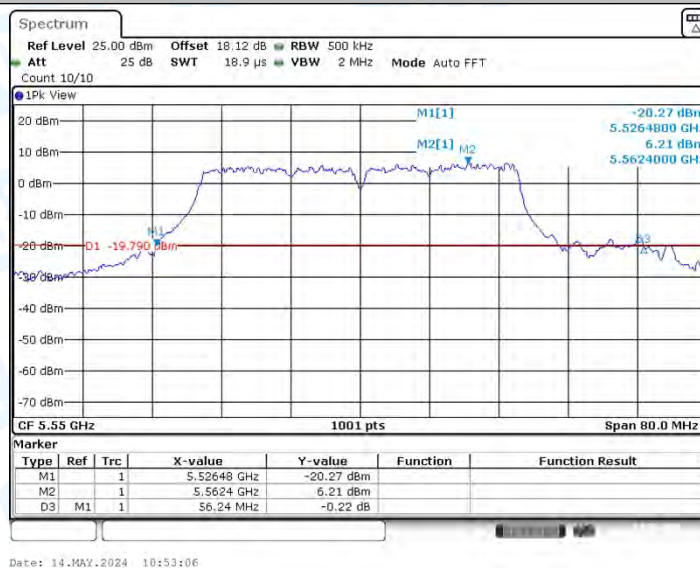
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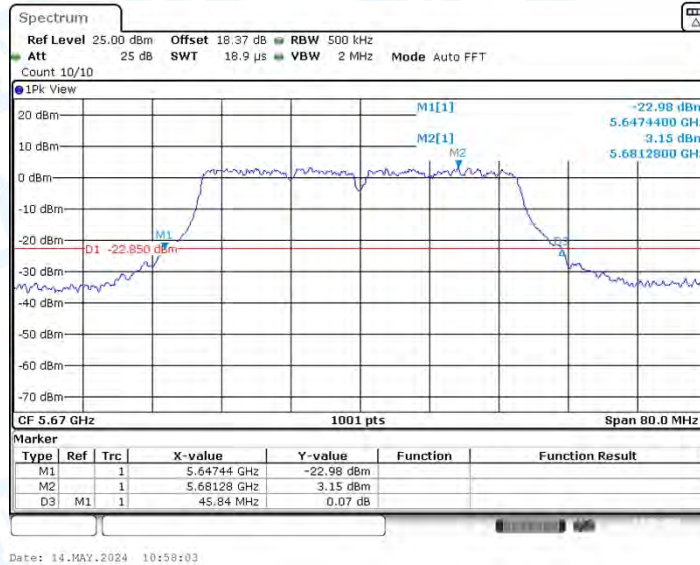
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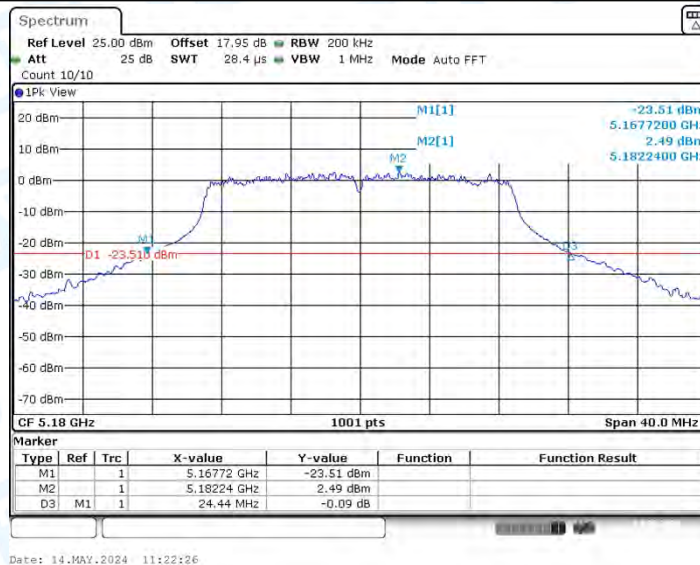
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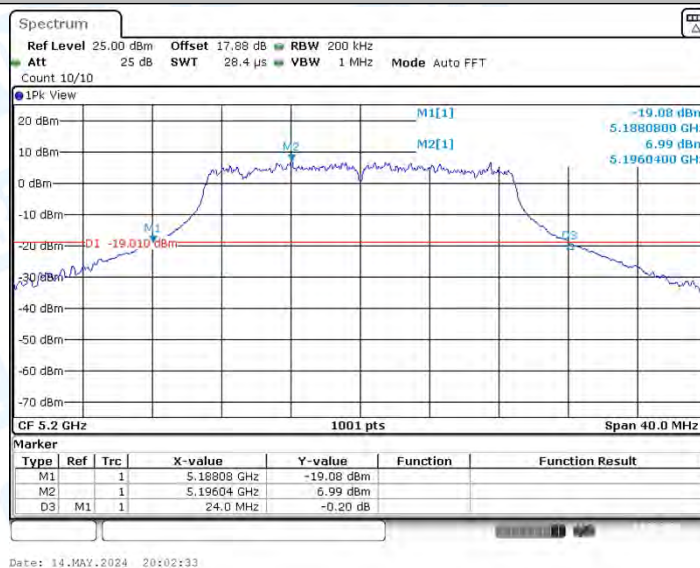
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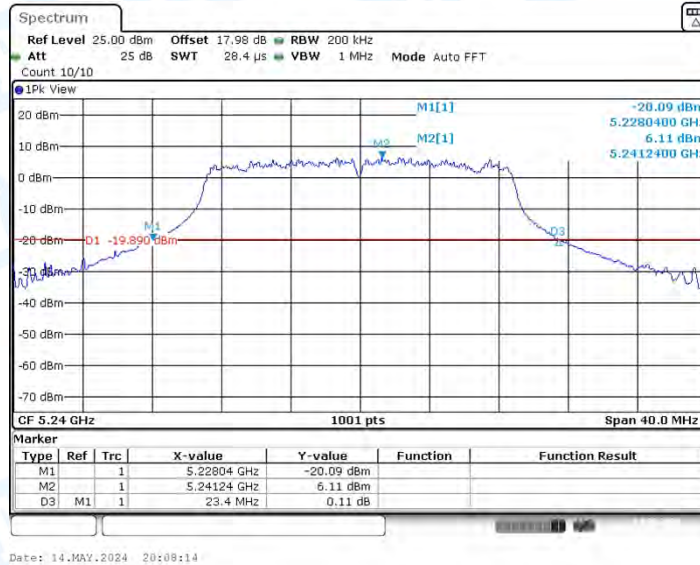
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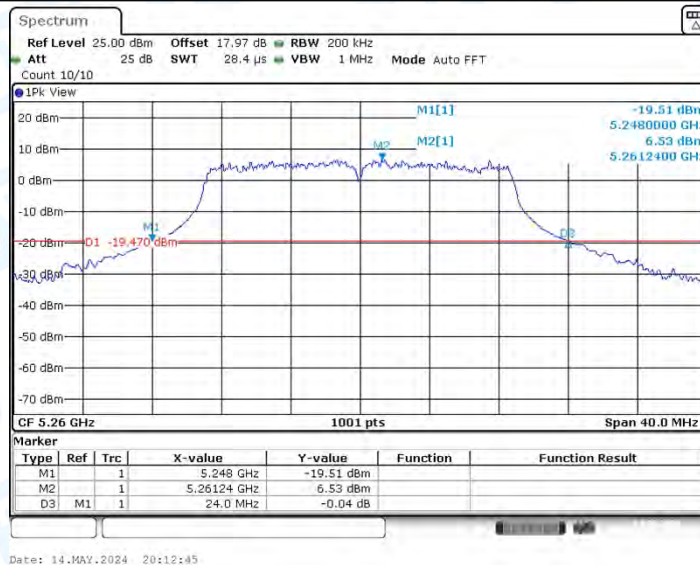
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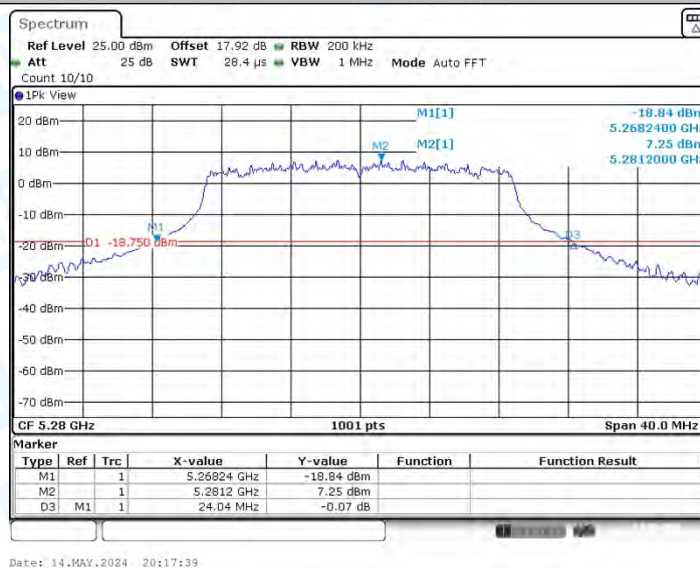
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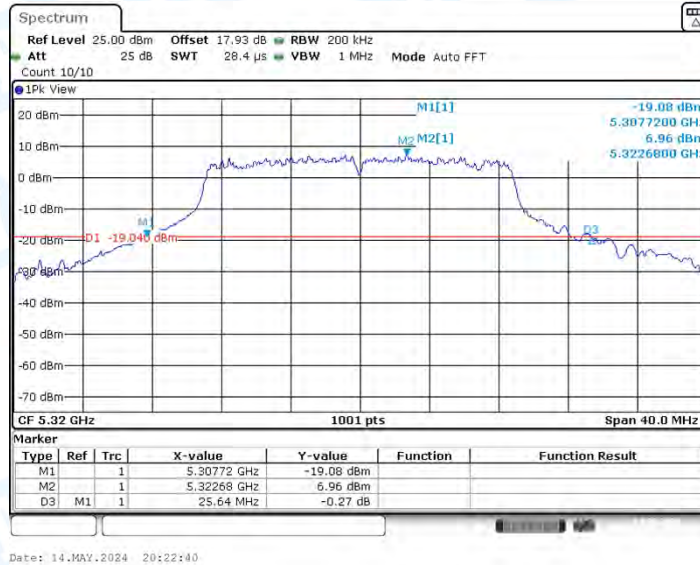
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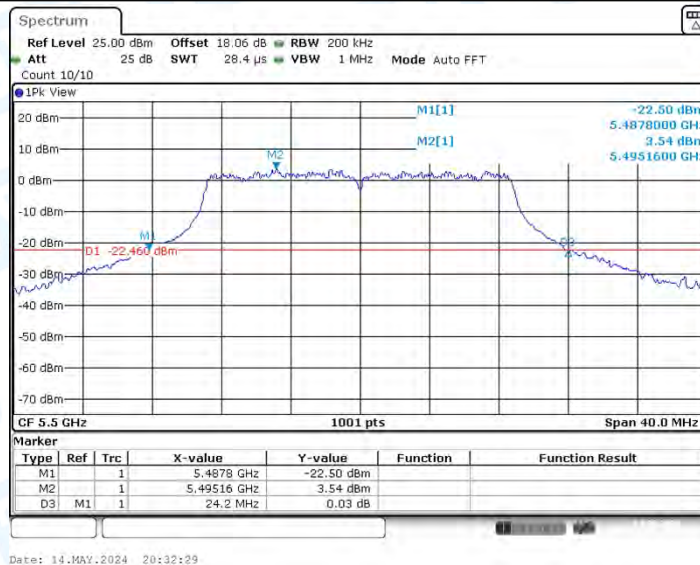
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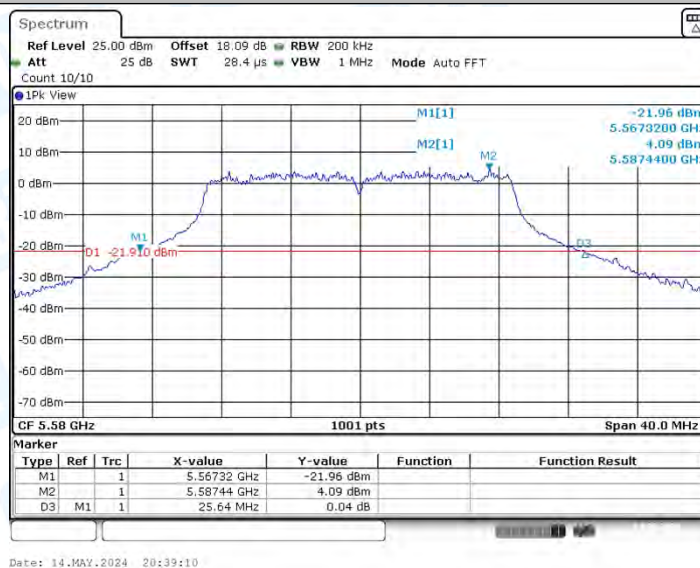
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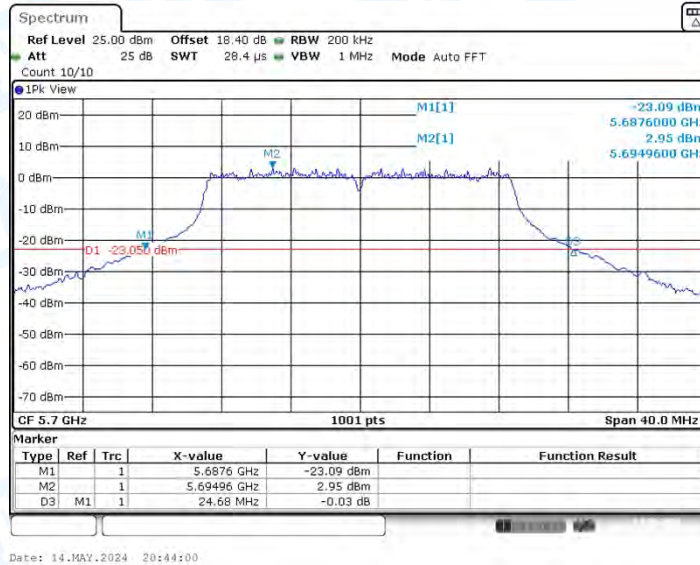
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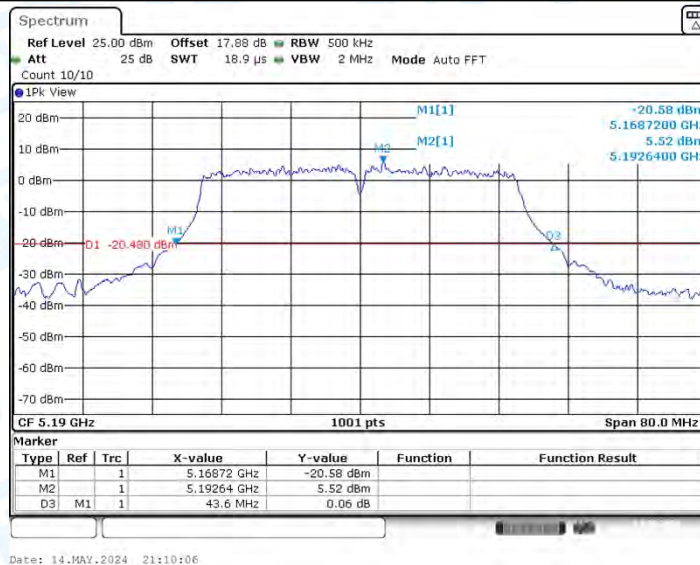
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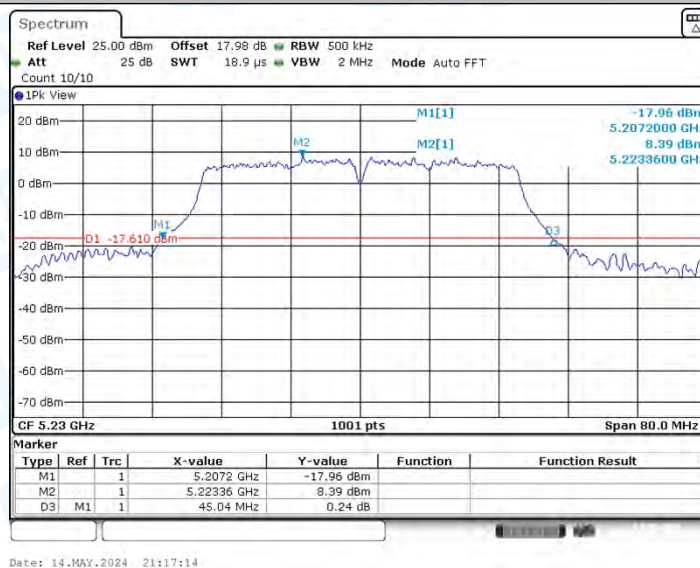
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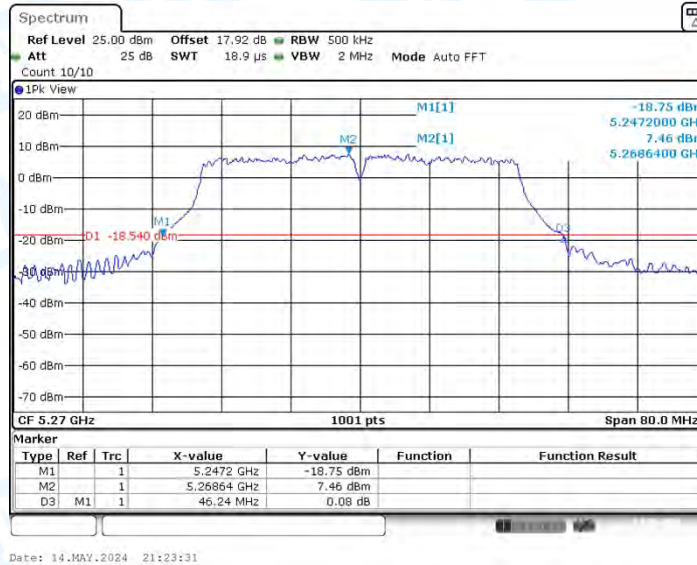
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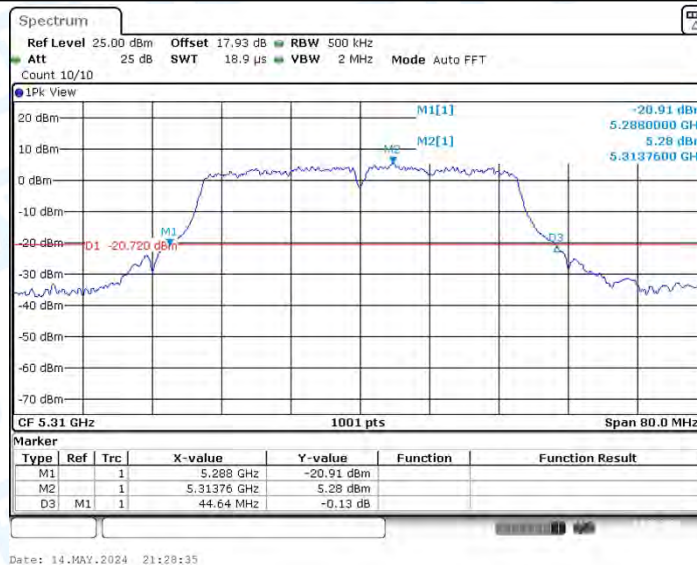
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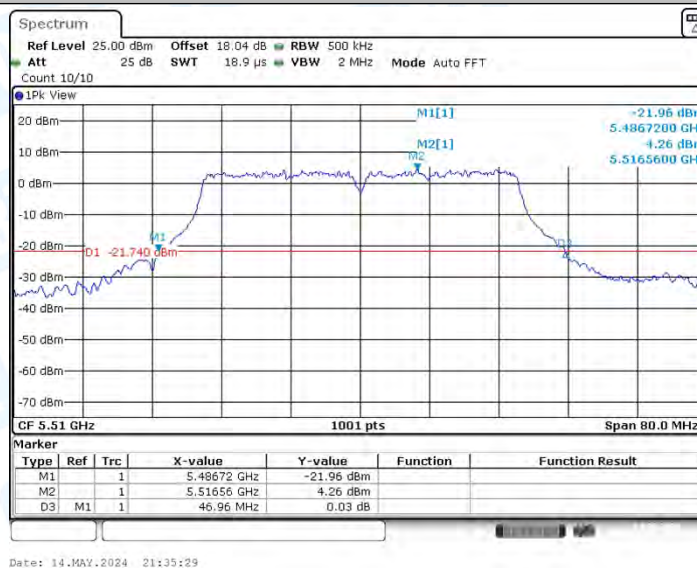
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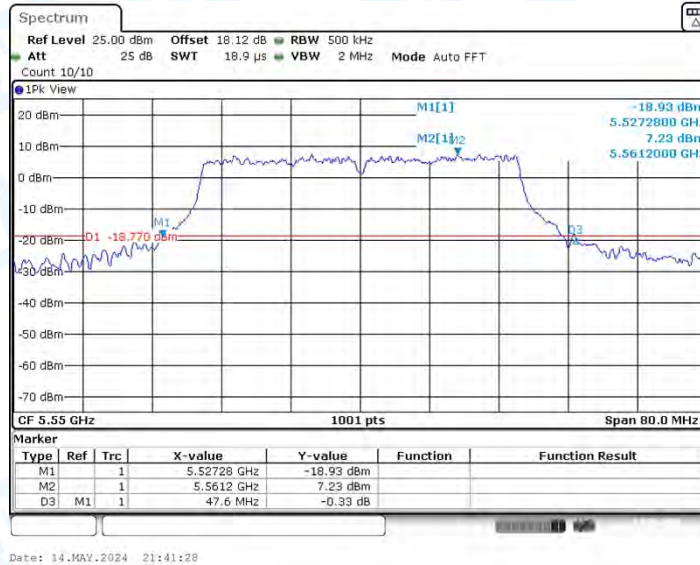
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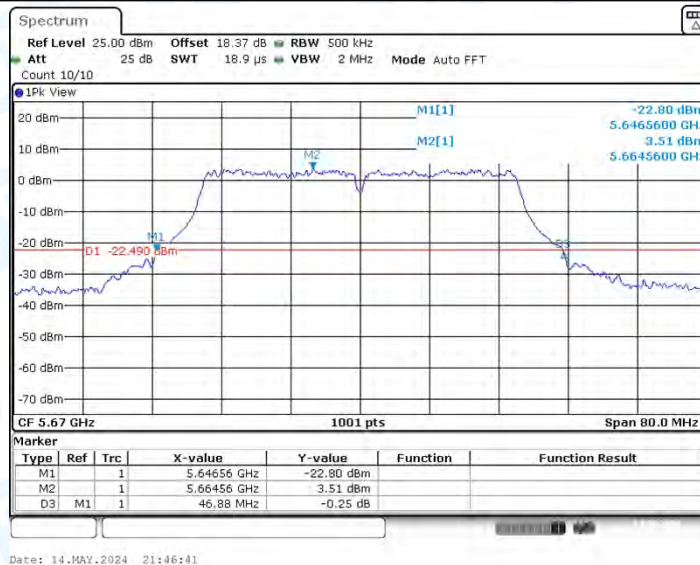
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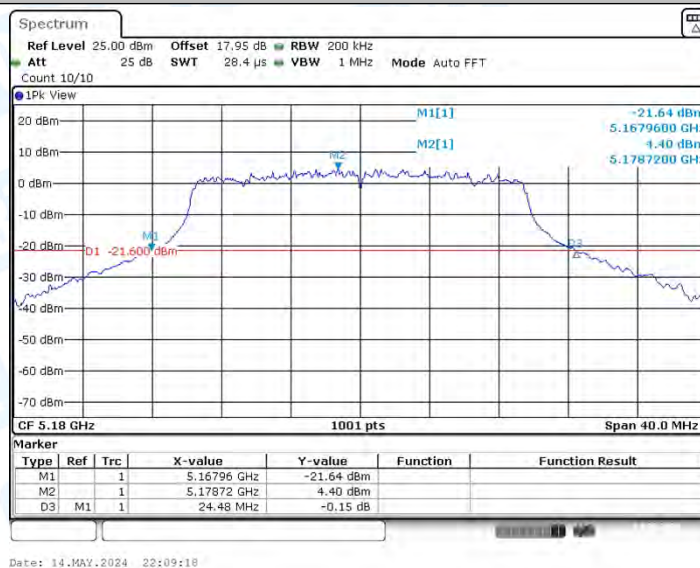
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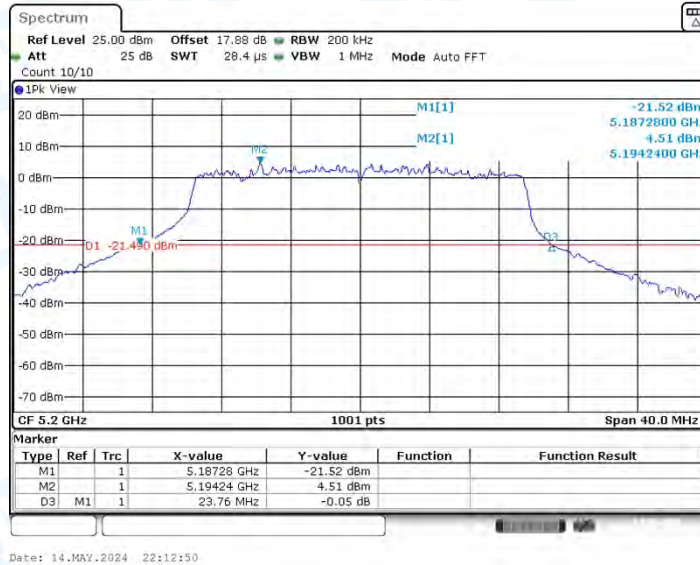
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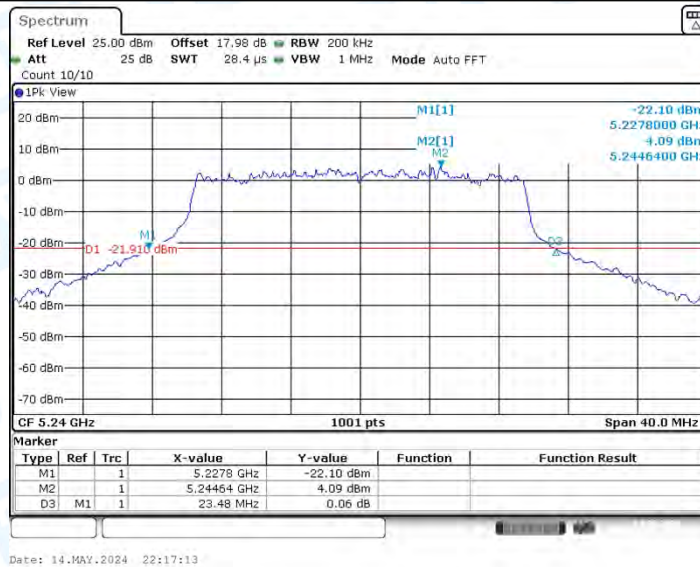
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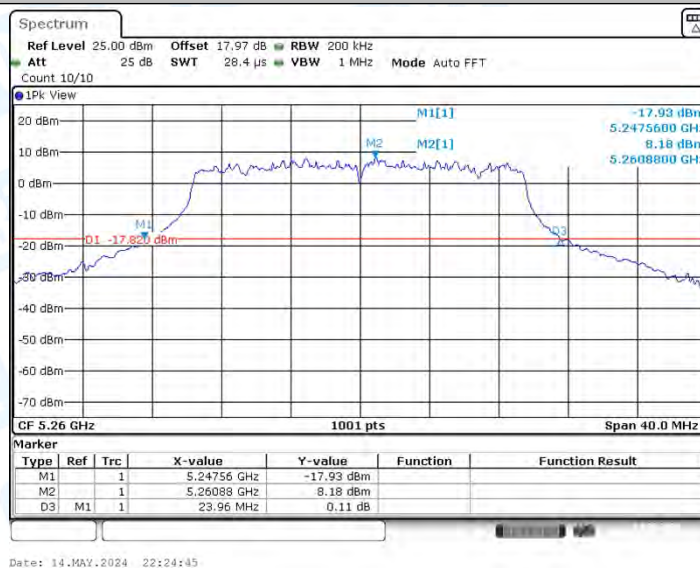
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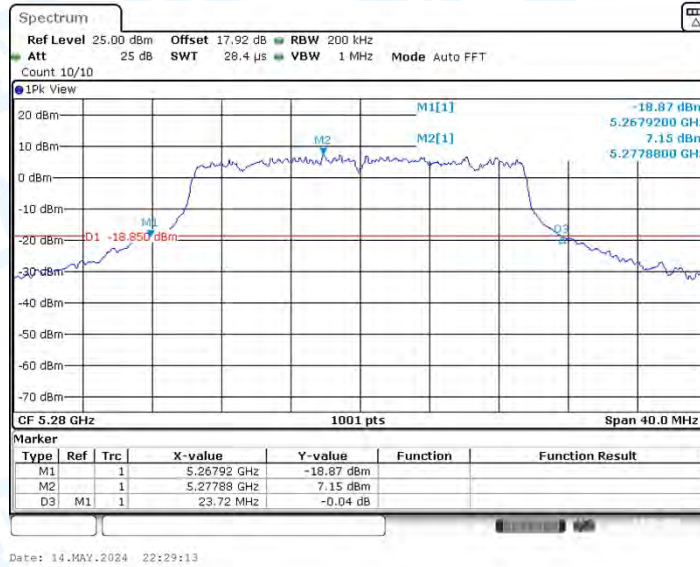
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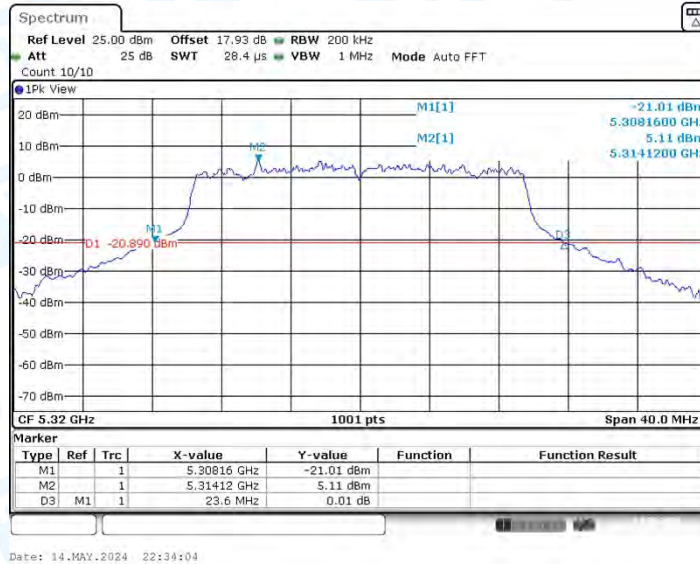
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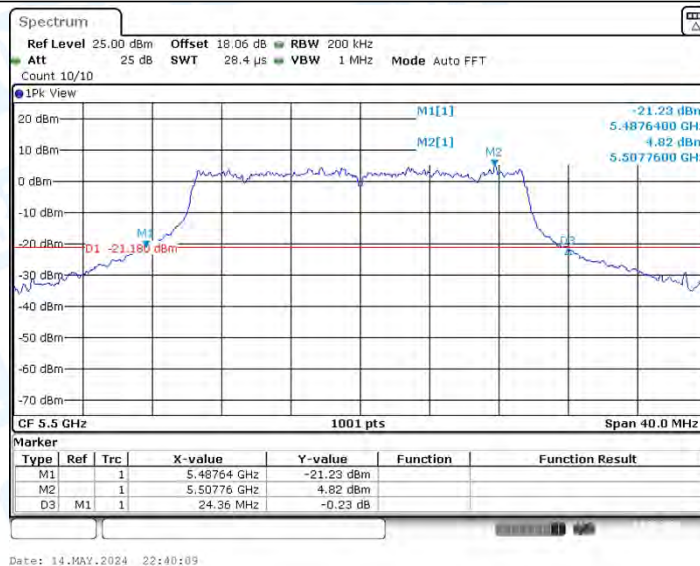
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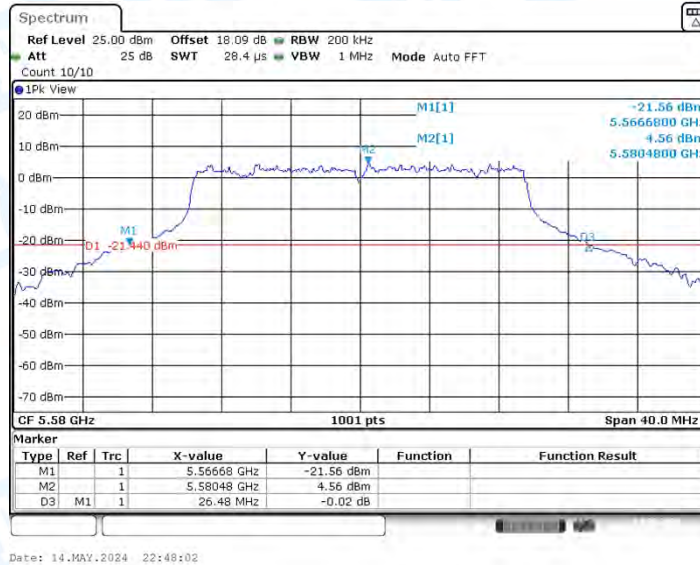
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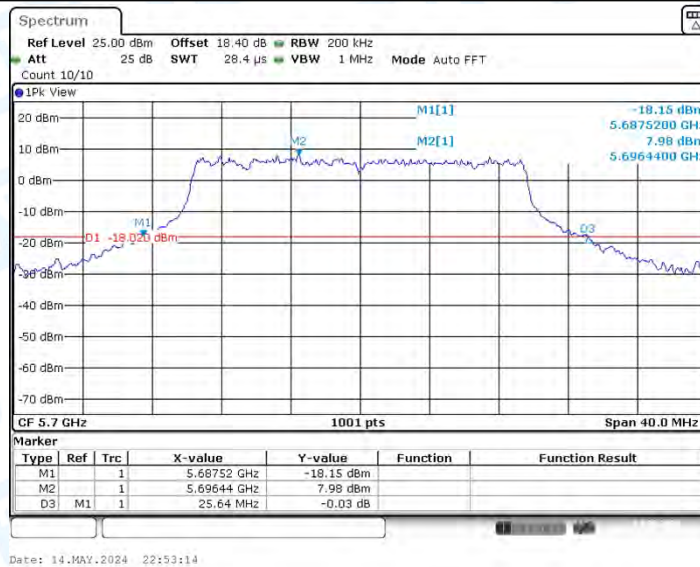
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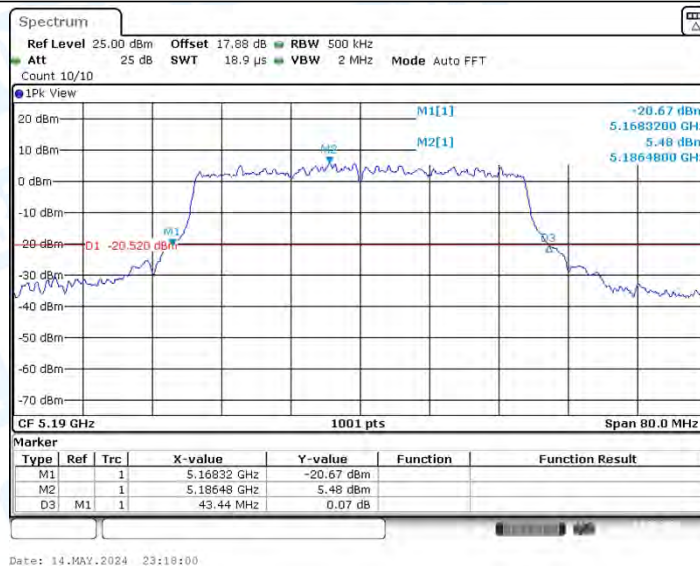
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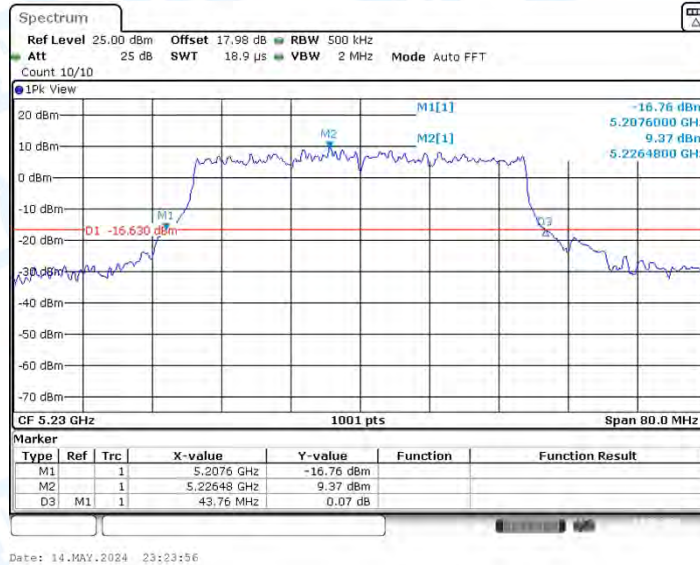
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11AX40SISO_Ant1_5190



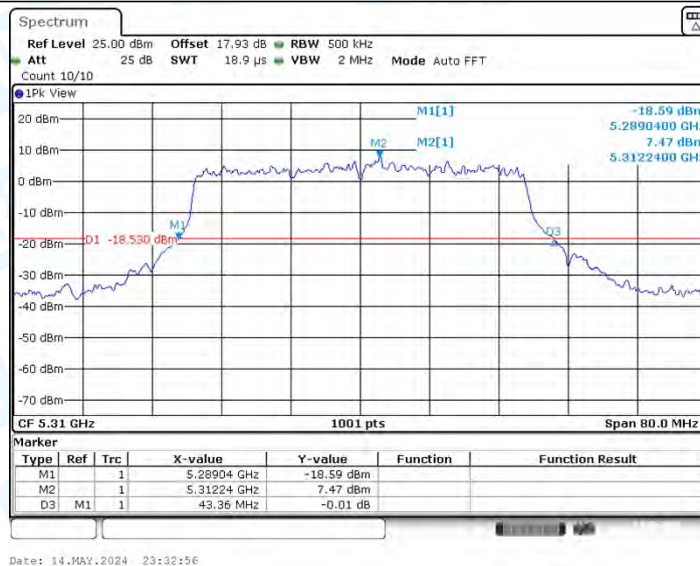
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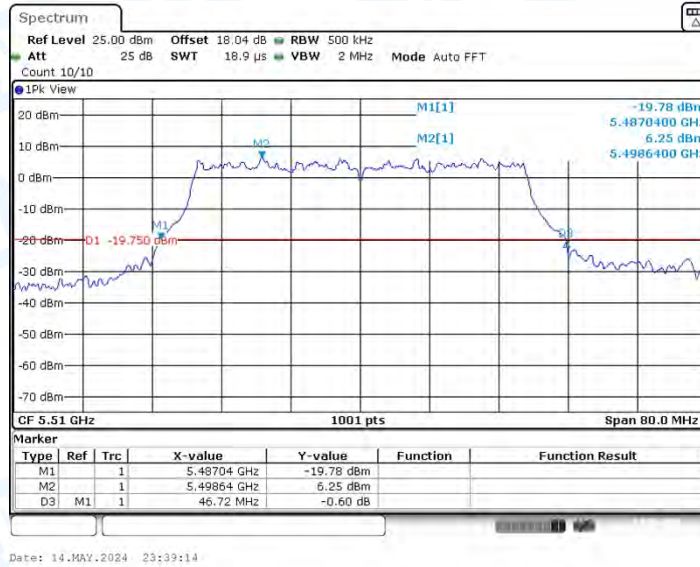
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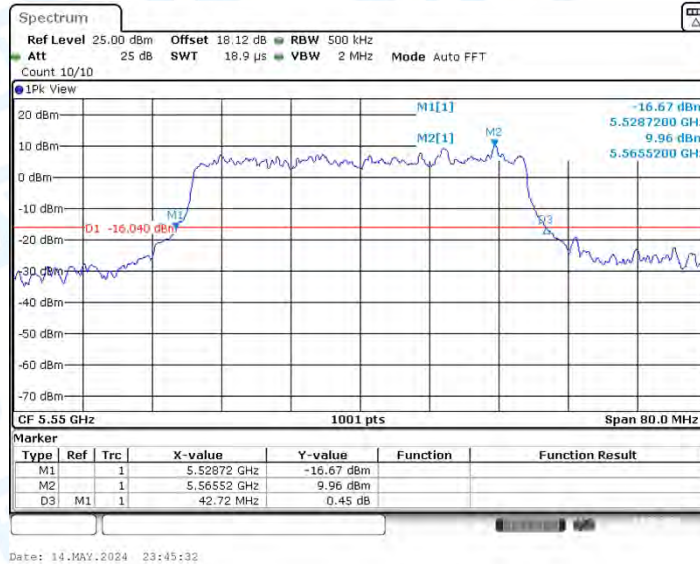
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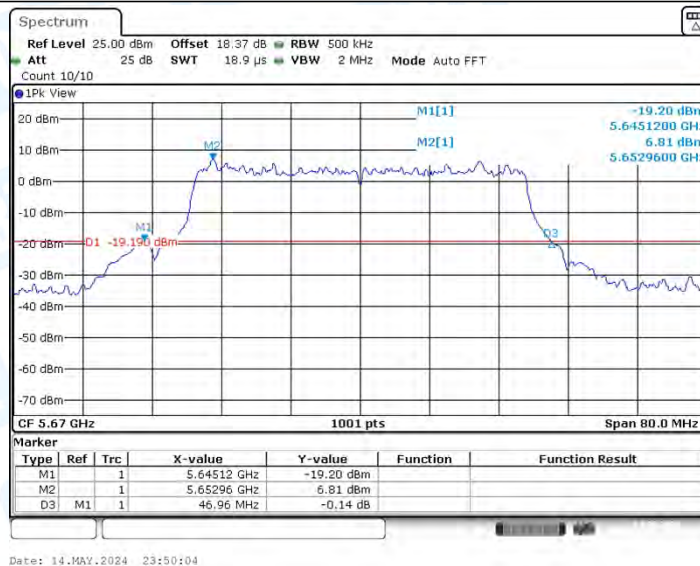
11AX40SISO_Ant1_5510



11AX40SISO_Ant1_5550



11AX40SISO_Ant1_5670



2. Occupied channel bandwidth

2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.423	5171.2088	5188.6314	---	---
		5200	17.542	5191.1289	5208.6713	---	---
		5240	17.822	5231.0490	5248.8711	---	---
		5260	18.022	5251.0889	5269.1109	---	---
		5280	17.862	5270.7293	5288.5914	---	---
		5320	17.303	5311.4086	5328.7113	---	---
		5500	18.302	5490.8891	5509.1908	---	---
		5580	18.062	5571.0889	5589.1508	---	---
		5700	17.662	5690.9690	5708.6314	---	---
		5745	17.742	5736.1688	5753.9111	---	---
		5785	17.582	5776.1289	5793.7113	---	---
		5825	17.862	5815.8092	5833.6713	---	---
11N20SISO	Ant1	5180	18.821	5170.4895	5189.3107	---	---
		5200	18.541	5190.8092	5209.3506	---	---
		5240	18.981	5230.6893	5249.6703	---	---
		5260	19.061	5250.2498	5269.3107	---	---
		5280	18.901	5270.4895	5289.3906	---	---
		5320	18.462	5310.8492	5329.3107	---	---
		5500	19.101	5490.3696	5509.4705	---	---
		5580	20.06	5570.3297	5590.3896	---	---
		5700	19.061	5690.2897	5709.3506	---	---
		5745	19.421	5735.0500	5754.4705	---	---
		5785	18.661	5775.6094	5794.2707	---	---
		5825	19.58	5814.9301	5834.5105	---	---
11N40SISO	Ant1	5190	36.923	5171.2987	5208.2218	---	---
		5230	37.962	5210.7393	5248.7013	---	---
		5270	37.323	5251.2188	5288.5415	---	---
		5310	36.763	5291.6184	5328.3816	---	---
		5510	37.483	5491.0589	5528.5415	---	---
		5550	38.521	5530.8991	5569.4206	---	---
		5670	37.483	5651.4585	5688.9411	---	---
		5755	37.403	5735.9790	5773.3816	---	---
11AC20SISO	Ant1	5795	37.562	5776.2987	5813.8611	---	---
		5180	18.661	5170.6494	5189.3107	---	---
		5200	18.462	5190.5295	5208.9910	---	---
		5240	19.301	5230.4096	5249.7103	---	---
		5260	19.141	5250.1299	5269.2707	---	---
		5280	19.101	5270.5694	5289.6703	---	---
		5320	18.541	5310.6494	5329.1908	---	---
	Ant1	5500	19.021	5490.5295	5509.5504	---	---

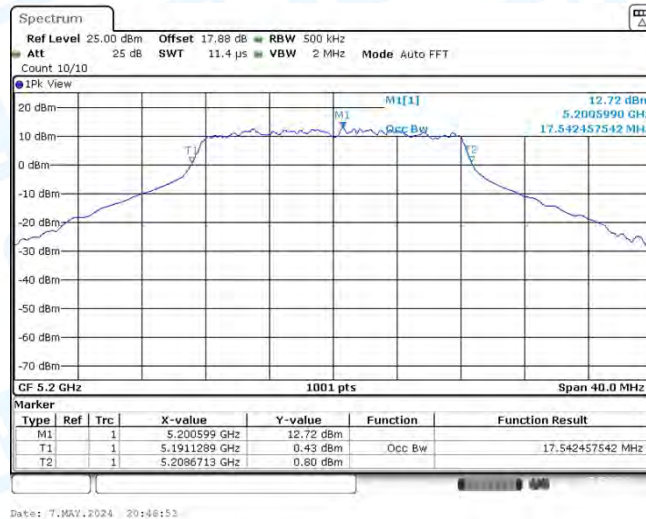
		5580	19.301	5570.1698	5589.4705	---	---
		5700	18.821	5690.4895	5709.3107	---	---
		5745	19.141	5735.4895	5754.6304	---	---
		5785	19.381	5775.1299	5794.5105	---	---
		5825	19.021	5815.5694	5834.5904	---	---
11AC40SISO	Ant1	5190	36.763	5171.5385	5208.3017	---	---
		5230	37.403	5211.1389	5248.5415	---	---
		5270	36.843	5251.5385	5288.3816	---	---
		5310	36.683	5291.6983	5328.3816	---	---
		5510	37.163	5491.3786	5528.5415	---	---
		5550	37.083	5531.4585	5568.5415	---	---
		5670	37.642	5651.2987	5688.9411	---	---
		5755	37.802	5735.7393	5773.5415	---	---
11AX20SISO	Ant1	5795	37.642	5776.0589	5813.7013	---	---
		5180	20.02	5169.6104	5189.6304	---	---
		5200	19.66	5190.2897	5209.9500	---	---
		5240	19.421	5230.2098	5249.6304	---	---
		5260	19.5	5250.1698	5269.6703	---	---
		5280	19.58	5270.0500	5289.6304	---	---
		5320	19.261	5310.3297	5329.5904	---	---
		5500	19.86	5489.8102	5509.6703	---	---
		5580	19.62	5570.3297	5589.9500	---	---
		5700	19.62	5690.1299	5709.7502	---	---
		5745	19.54	5735.2098	5754.7502	---	---
		5785	19.62	5775.1698	5794.7902	---	---
11AX40SISO	Ant1	5825	19.74	5814.8102	5834.5504	---	---
		5190	38.202	5170.8991	5209.1009	---	---
		5230	38.282	5210.8192	5249.1009	---	---
		5270	38.202	5250.8192	5289.0210	---	---
		5310	38.122	5290.8192	5328.9411	---	---
		5510	38.442	5490.7393	5529.1808	---	---
		5550	38.282	5530.8991	5569.1808	---	---
		5670	38.841	5650.2597	5689.1009	---	---
		5755	38.362	5735.7393	5774.1009	---	---
		5795	38.841	5775.7393	5814.5804	---	---

2.2. Test Graphs

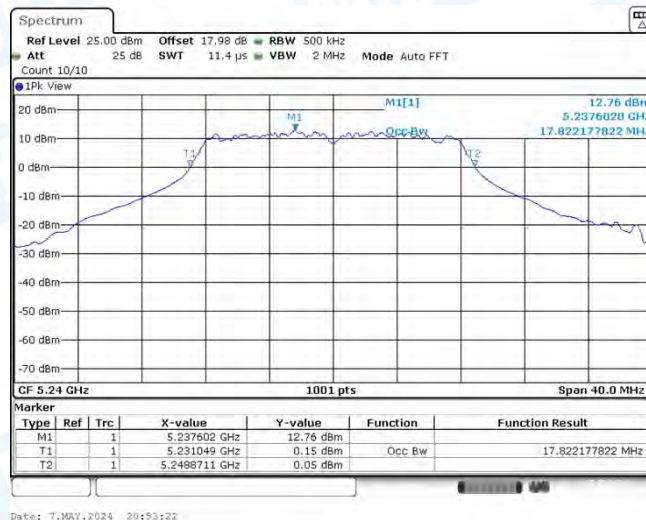
11A_Ant1_5180



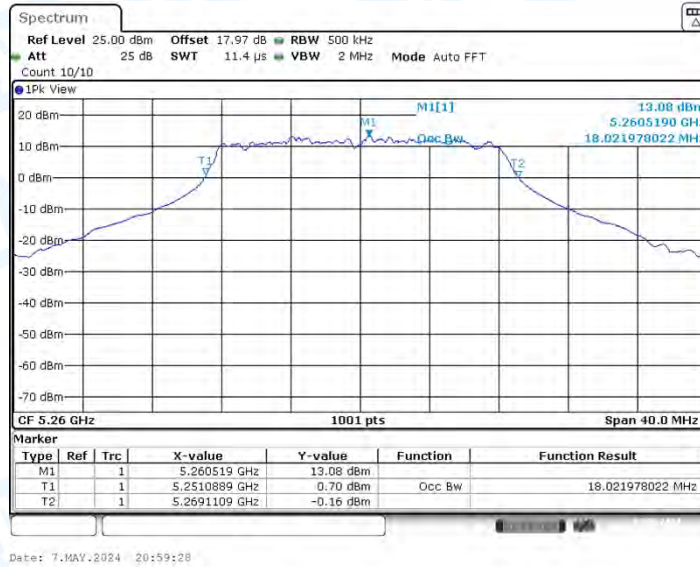
11A_Ant1_5200



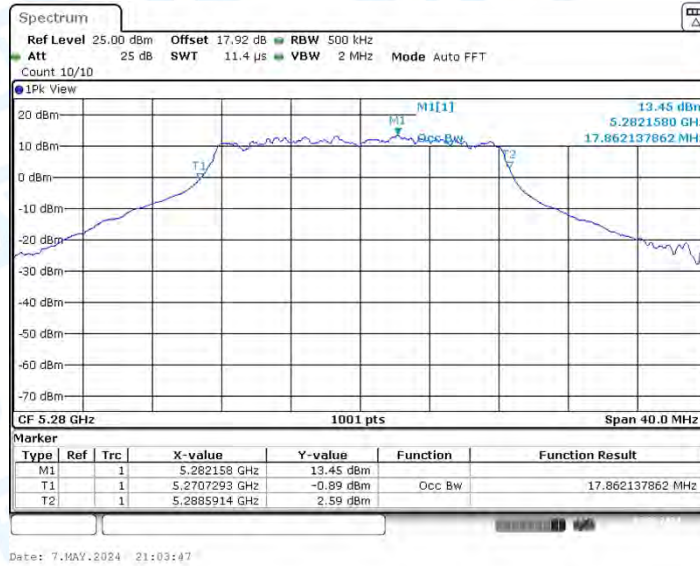
11A_Ant1_5240



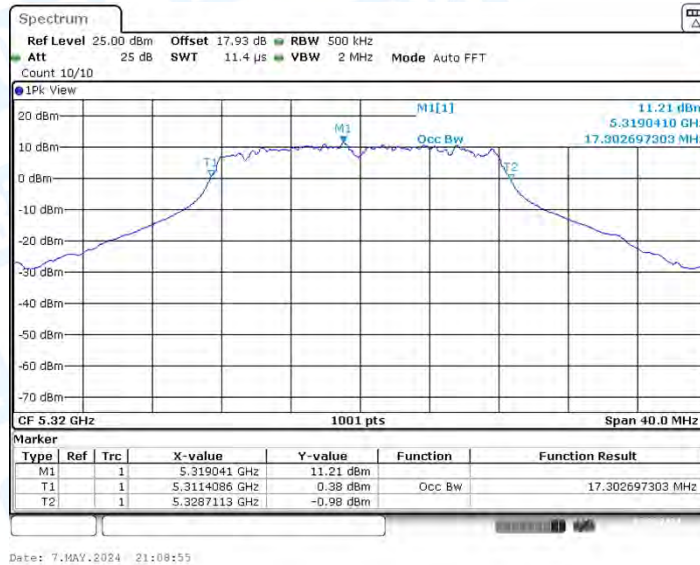
11A_Ant1_5260



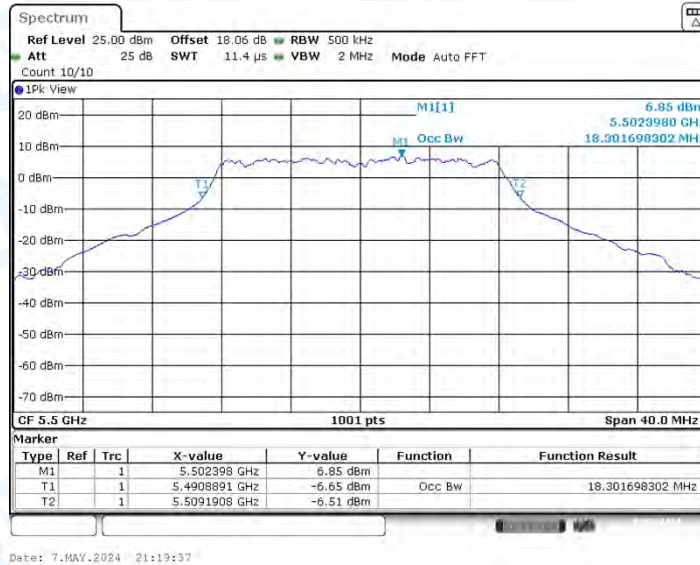
11A_Ant1_5280



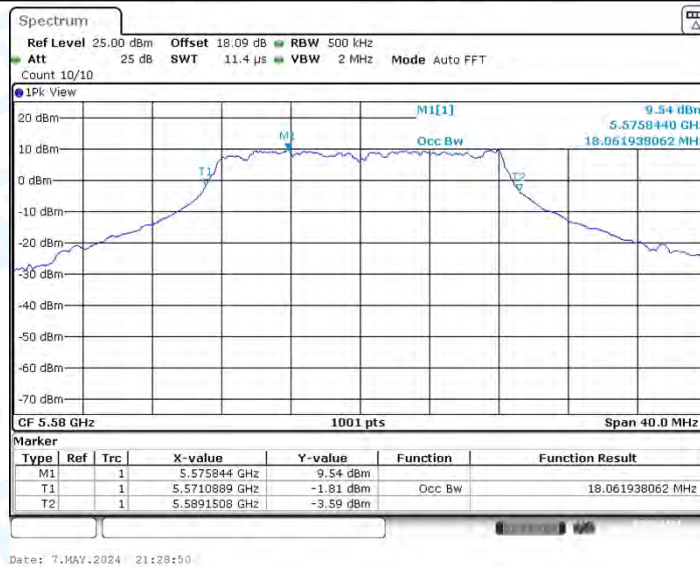
11A_Ant1_5320



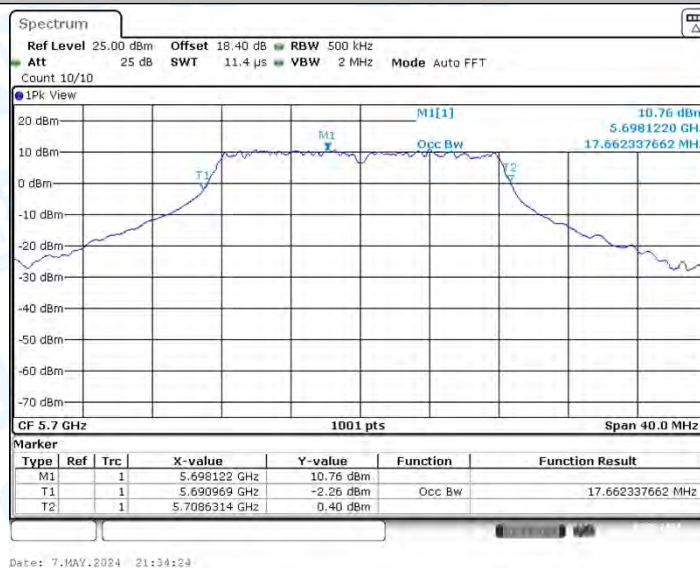
11A_Ant1_5500



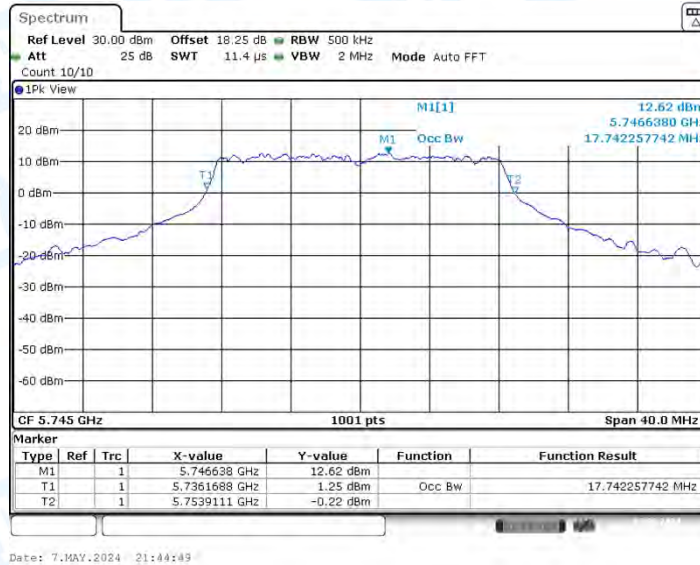
11A_Ant1_5580



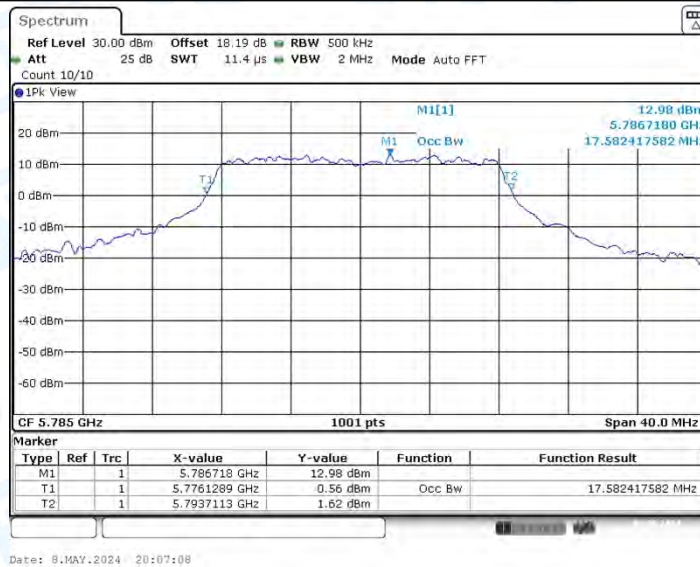
11A_Ant1_5700



11A_Ant1_5745



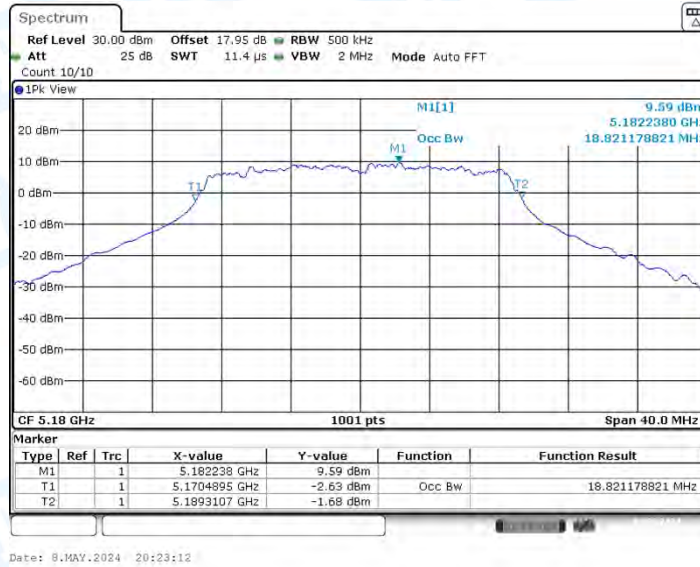
11A_Ant1_5785



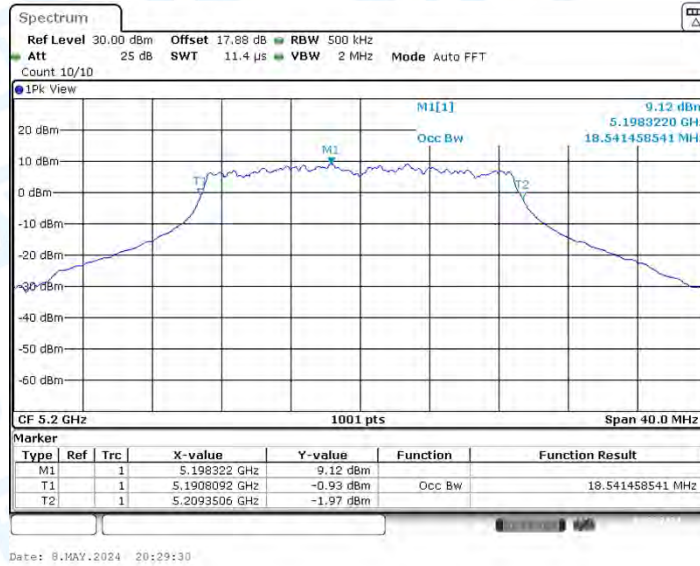
11A_Ant1_5825



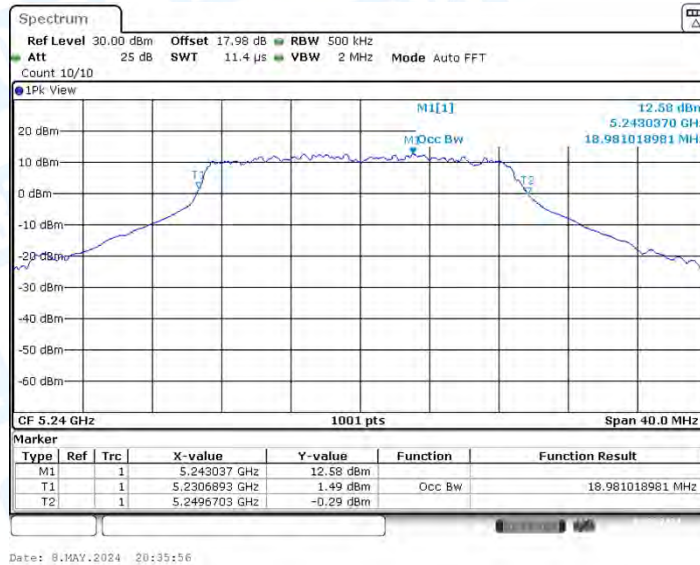
11N20SISO_Ant1_5180



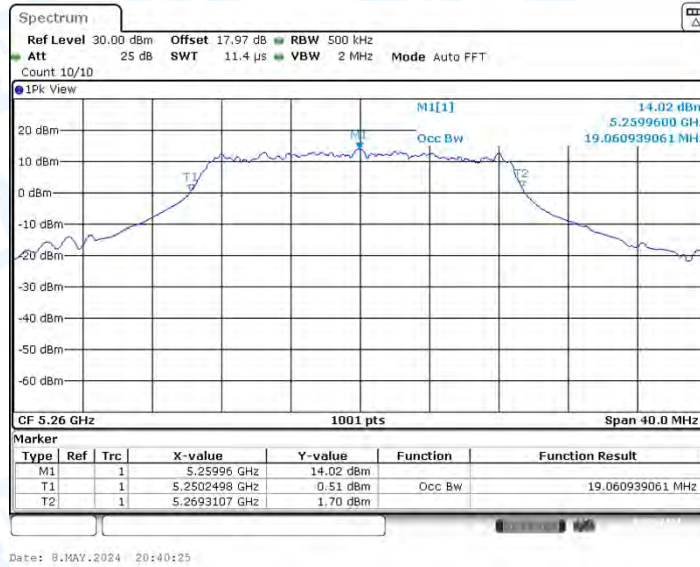
11N20SISO_Ant1_5200



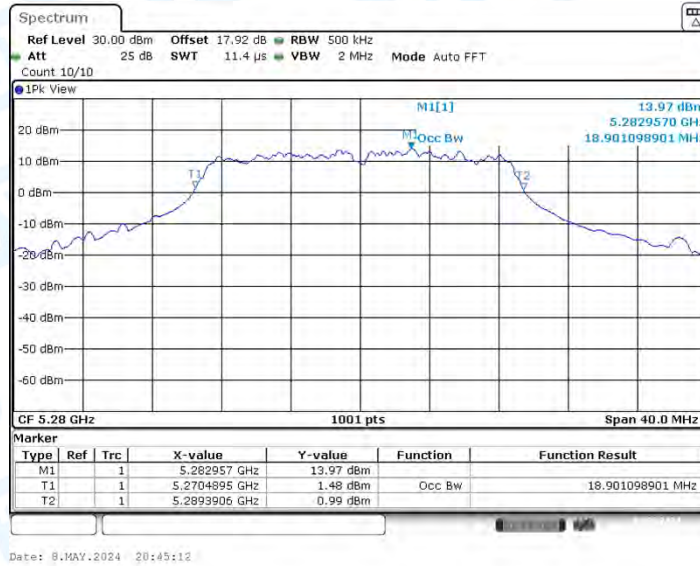
11N20SISO_Ant1_5240



11N20SISO_Ant1_5260



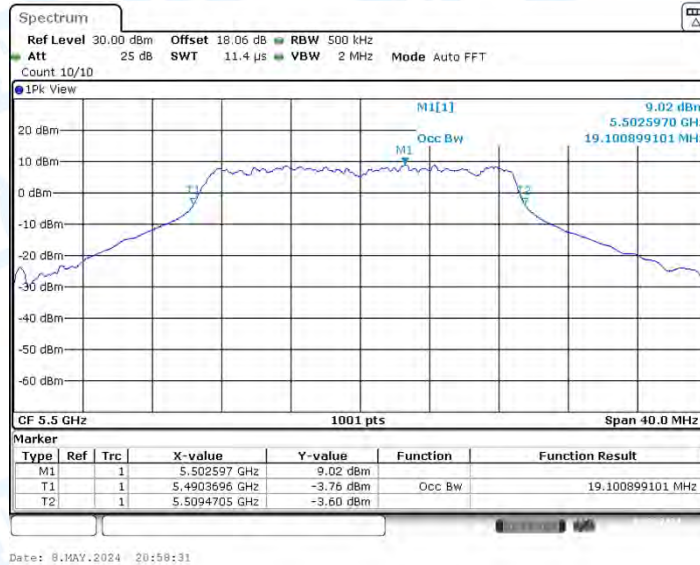
11N20SISO_Ant1_5280



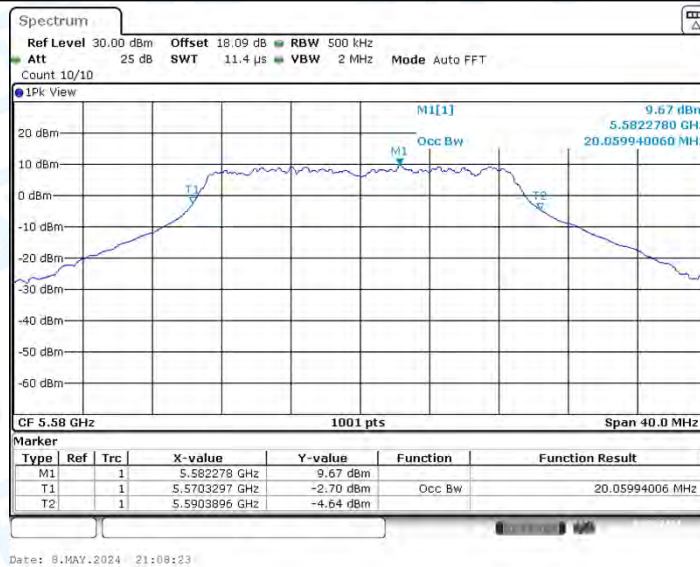
11N20SISO_Ant1_5320



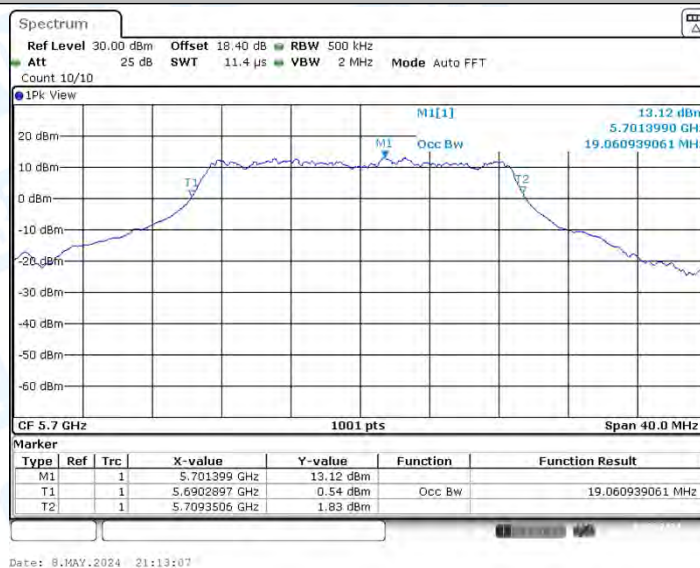
11N20SISO_Ant1_5500



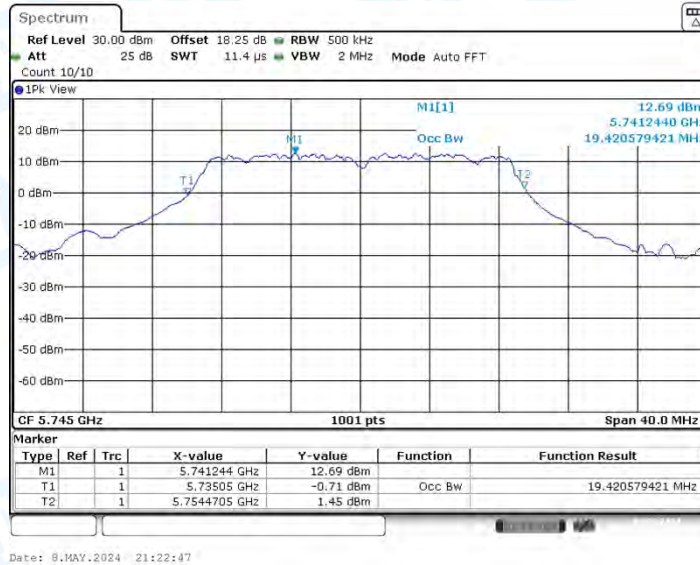
11N20SISO_Ant1_5580



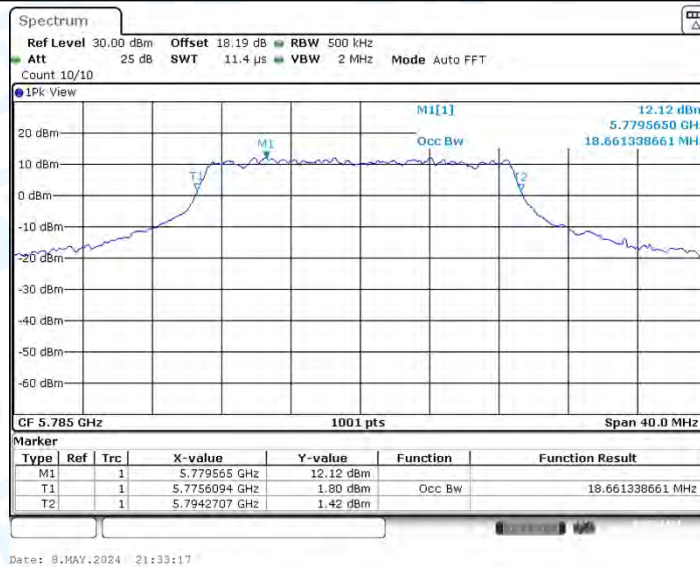
11N20SISO_Ant1_5700



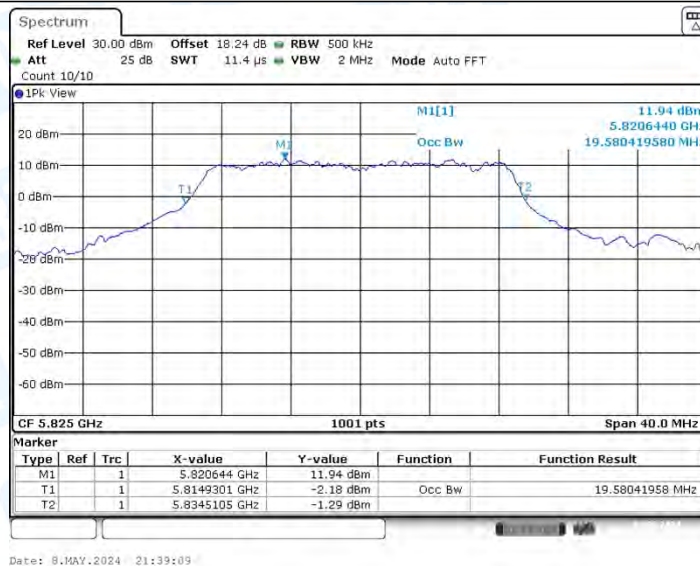
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190



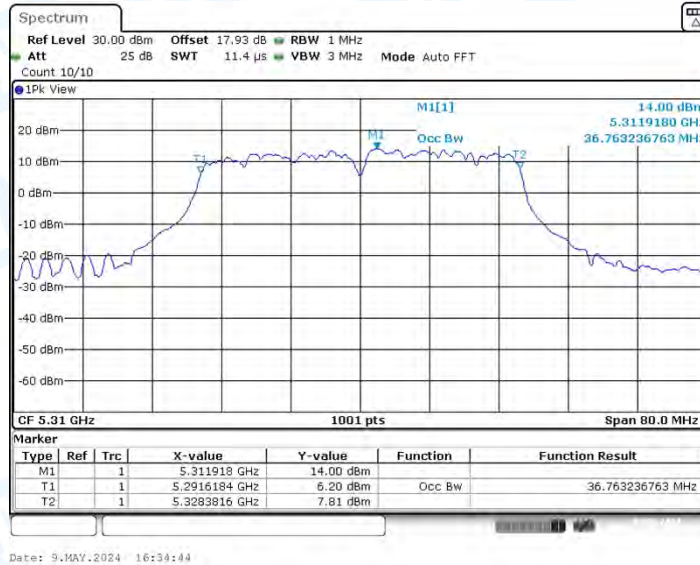
11N40SISO_Ant1_5230



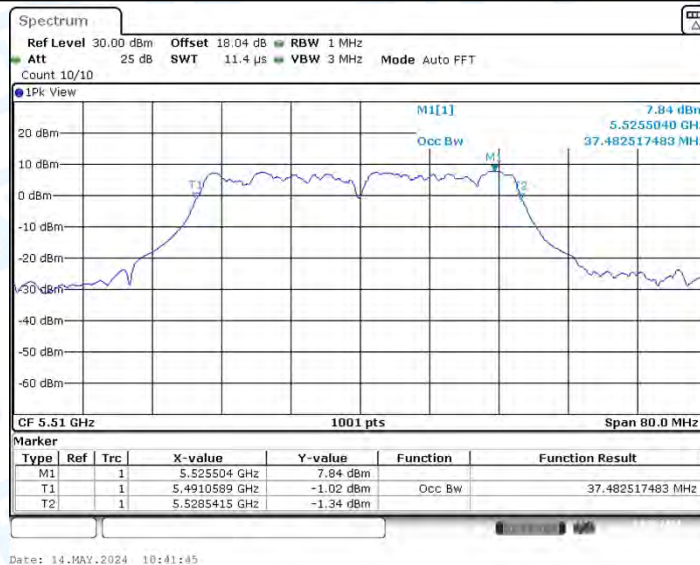
11N40SISO_Ant1_5270



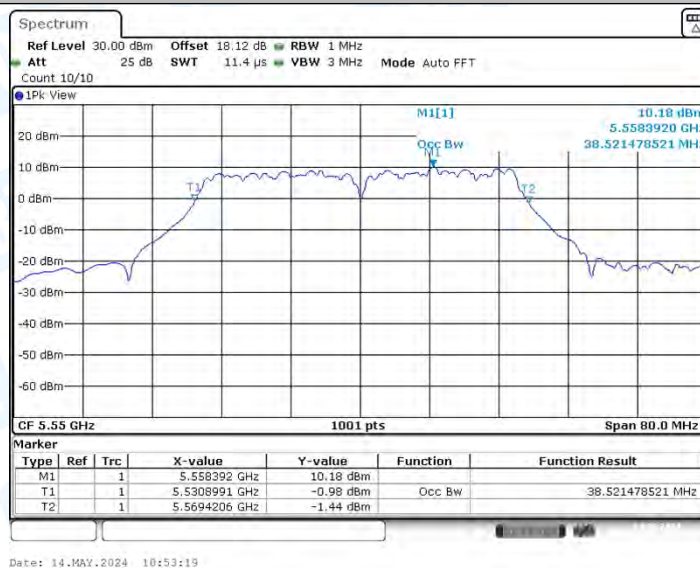
11N40SISO_Ant1_5310



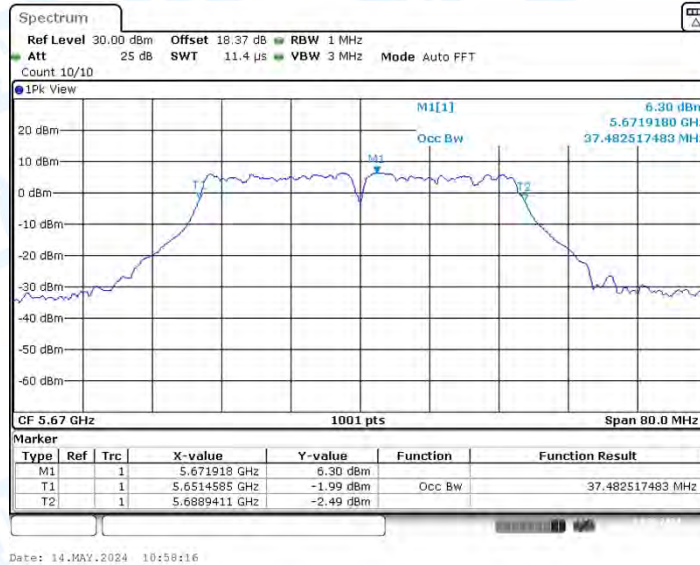
11N40SISO_Ant1_5510



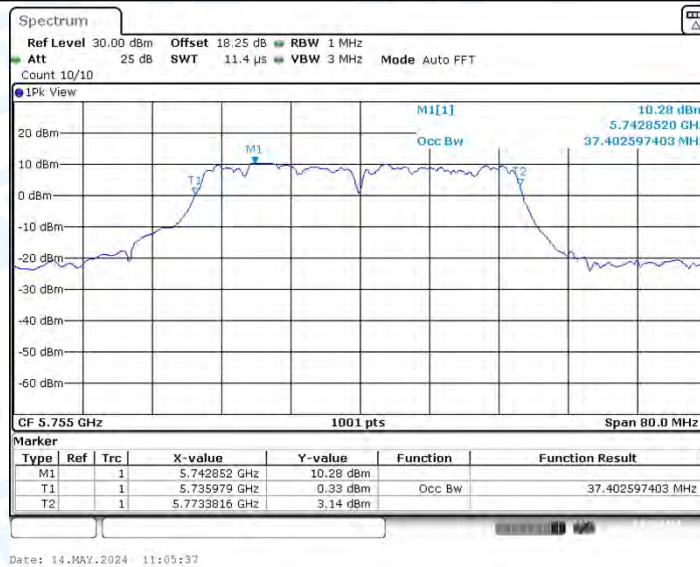
11N40SISO_Ant1_5550



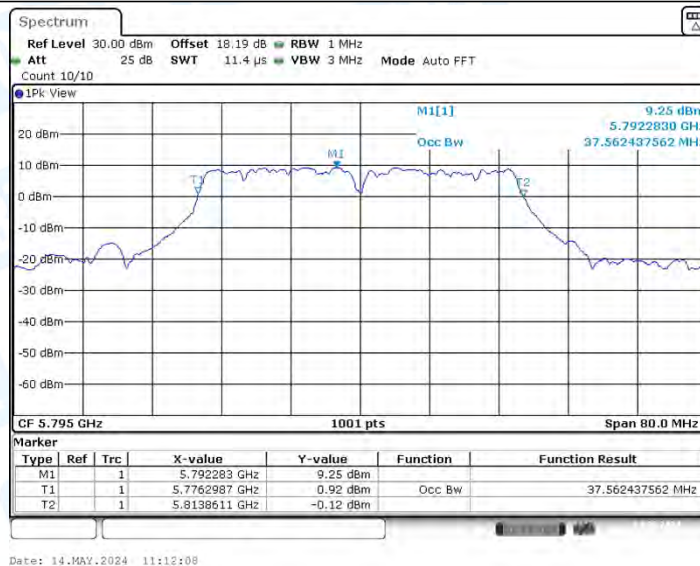
11N40SISO_Ant1_5670



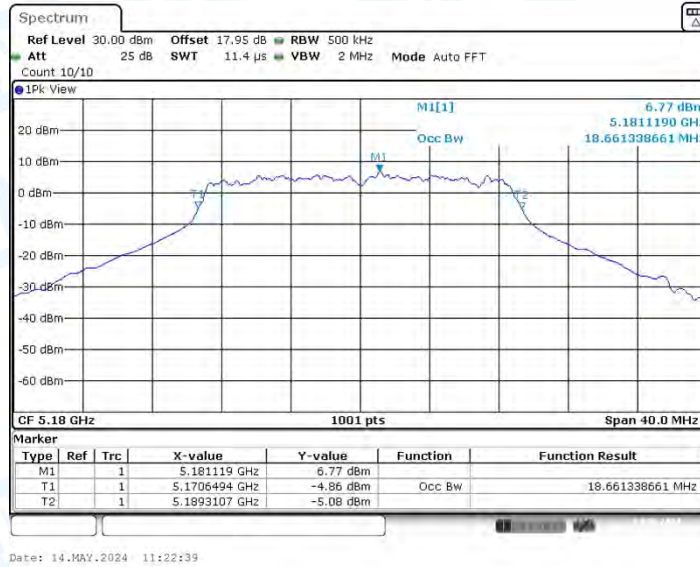
11N40SISO_Ant1_5755



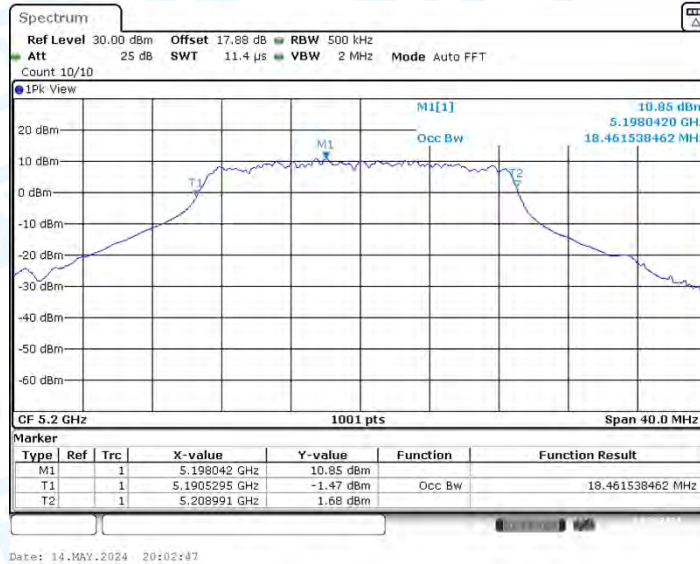
11N40SISO_Ant1_5795



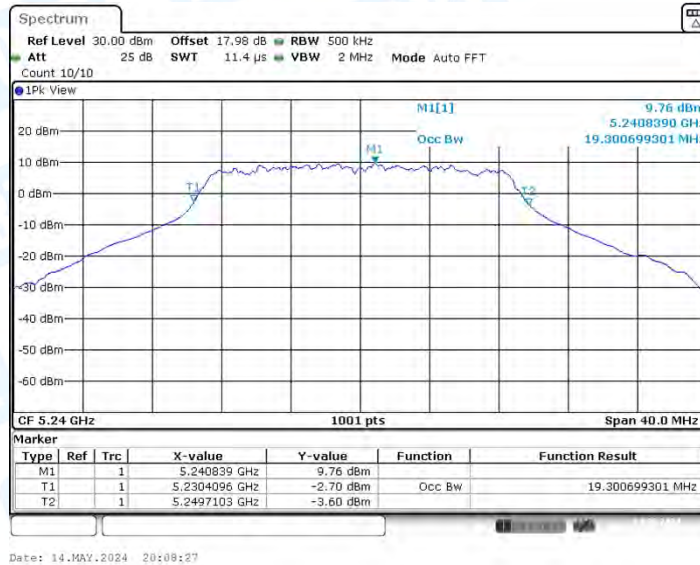
11AC20SISO_Ant1_5180



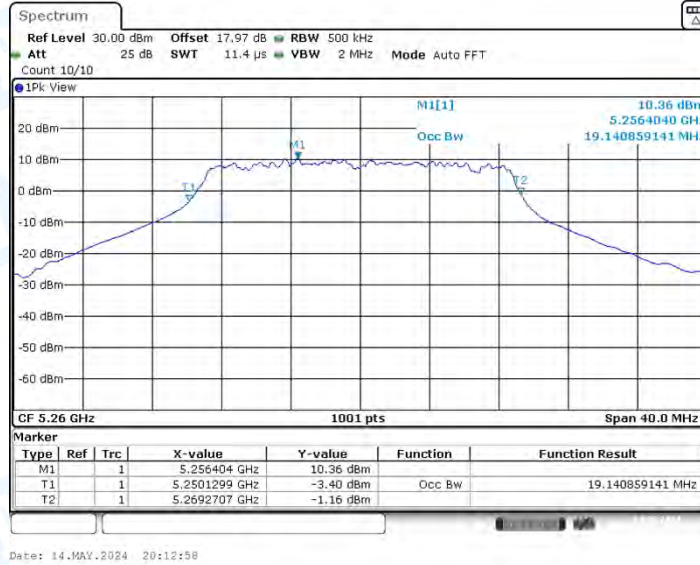
11AC20SISO_Ant1_5200



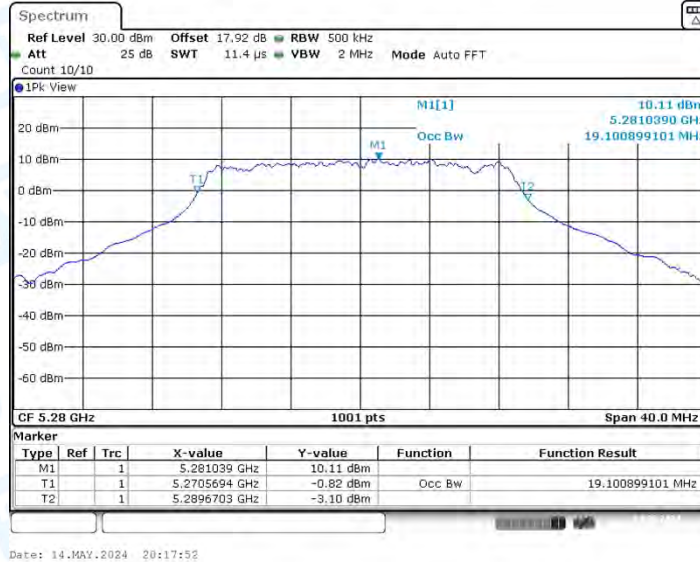
11AC20SISO_Ant1_5240



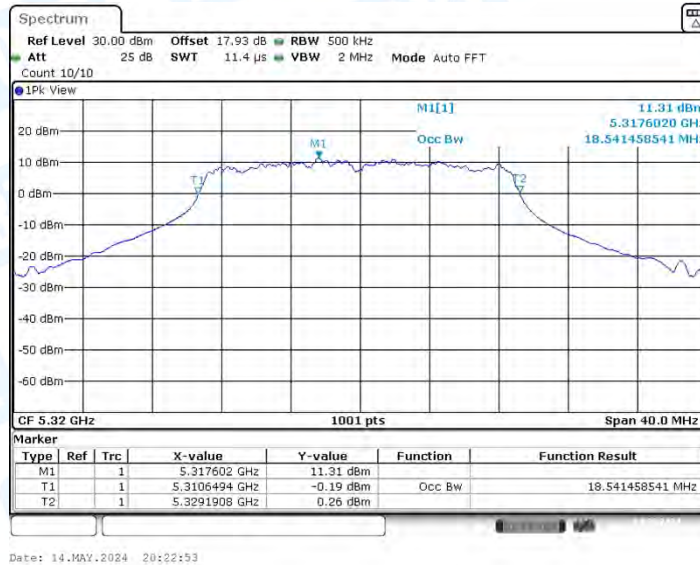
11AC20SISO_Ant1_5260



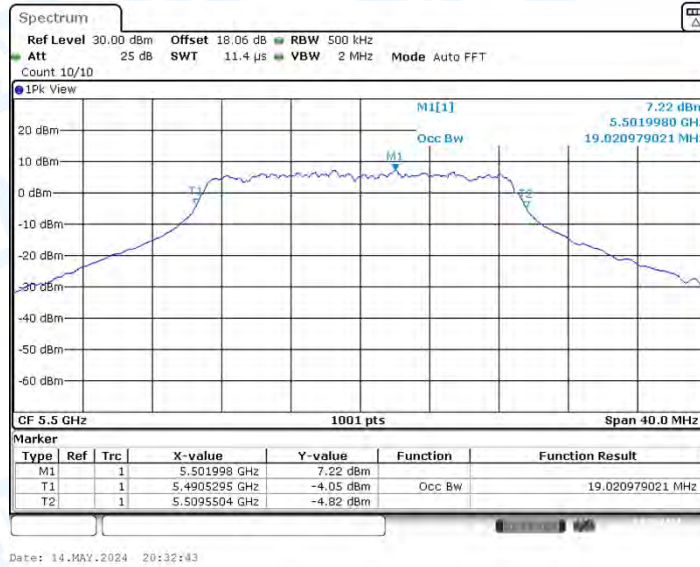
11AC20SISO_Ant1_5280



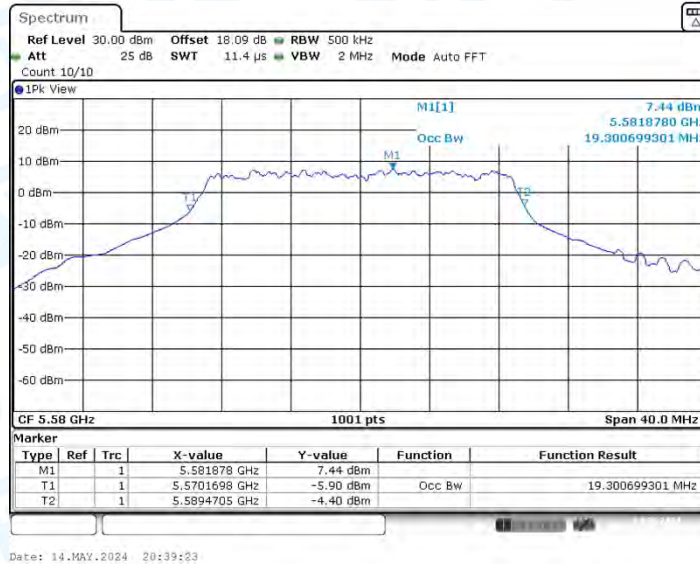
11AC20SISO_Ant1_5320



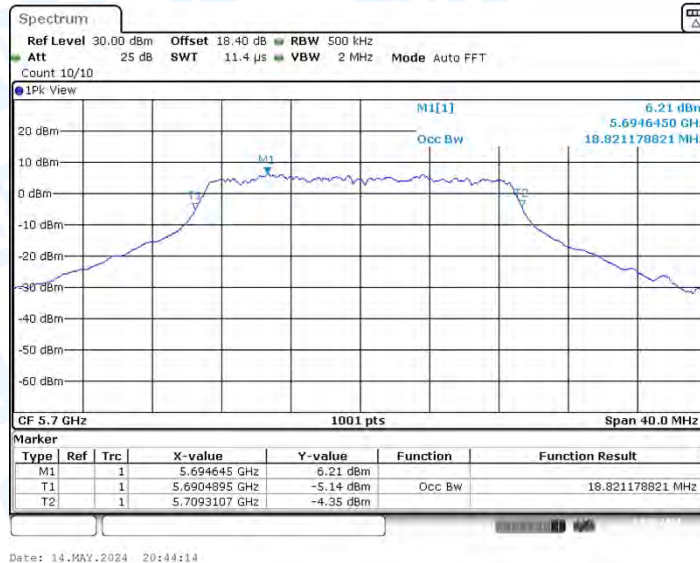
11AC20SISO_Ant1_5500



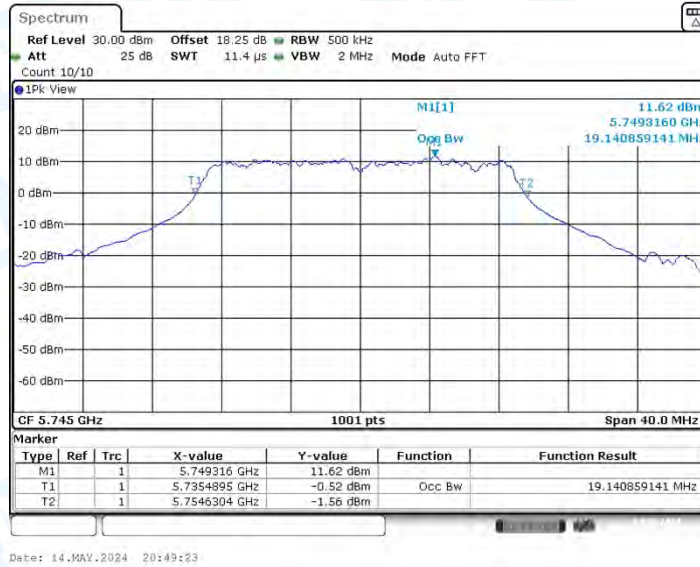
11AC20SISO_Ant1_5580



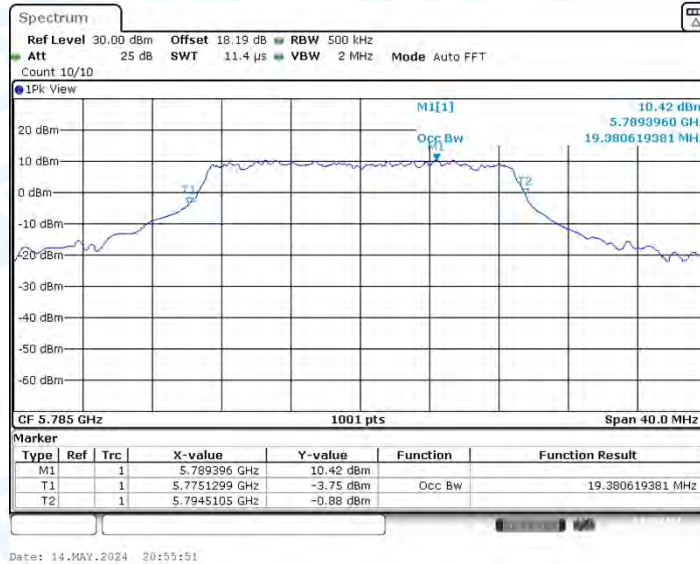
11AC20SISO_Ant1_5700



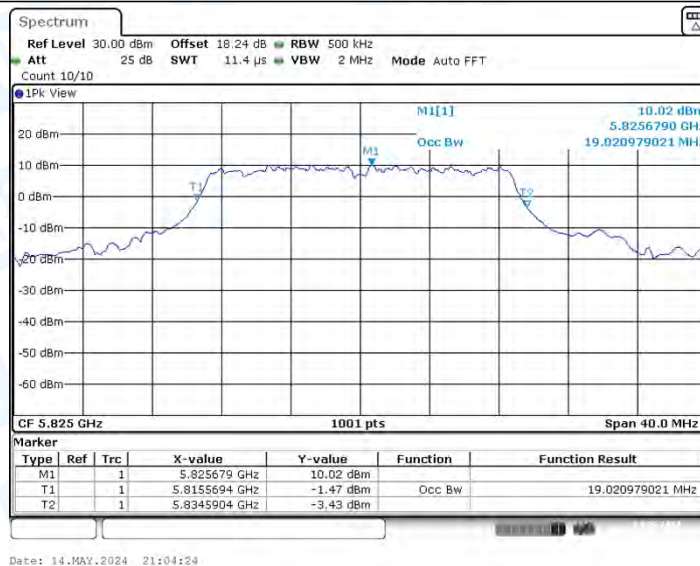
11AC20SISO_Ant1_5745



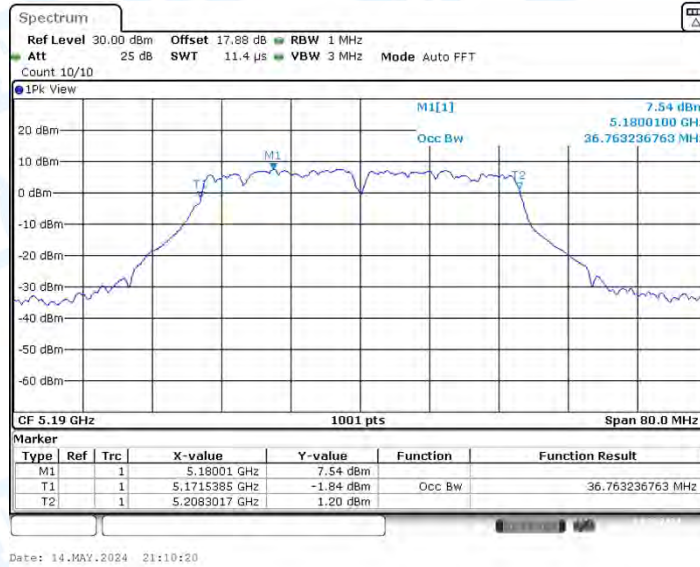
11AC20SISO_Ant1_5785



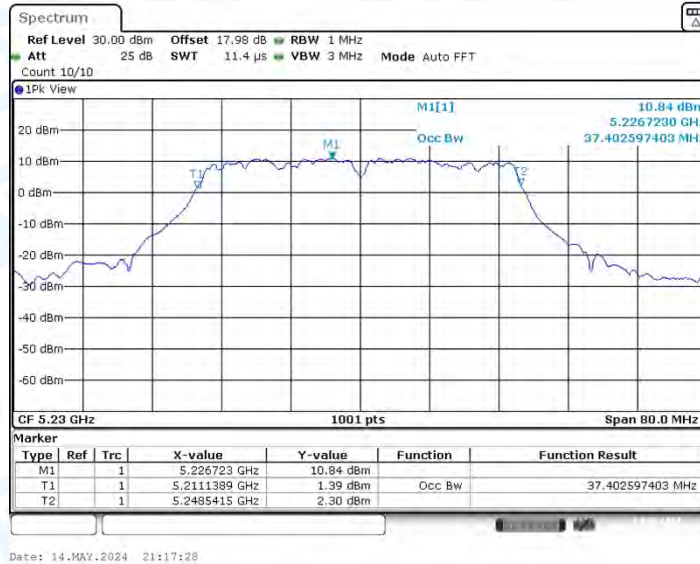
11AC20SISO_Ant1_5825



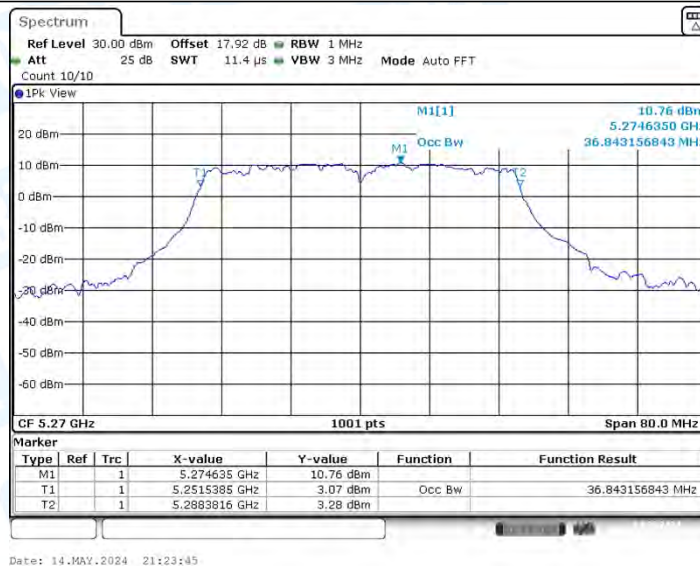
11AC40SISO_Ant1_5190



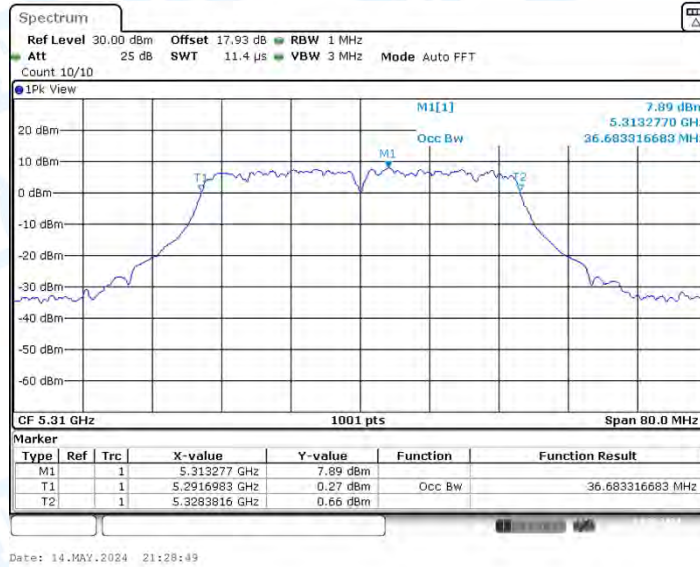
11AC40SISO_Ant1_5230



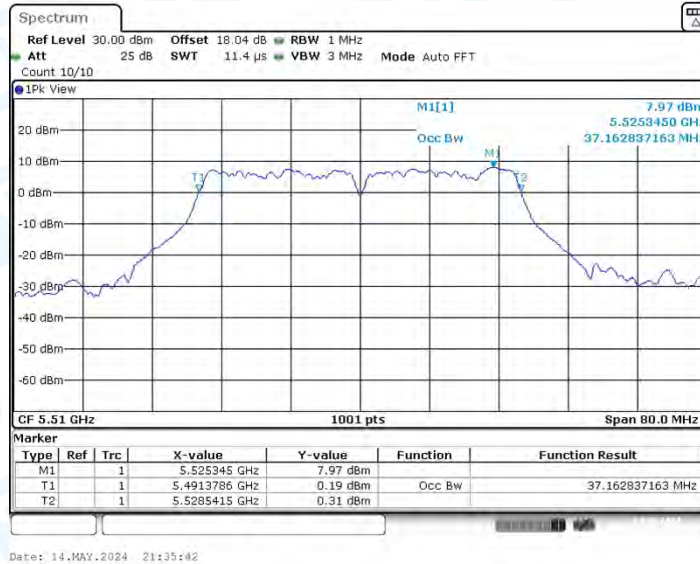
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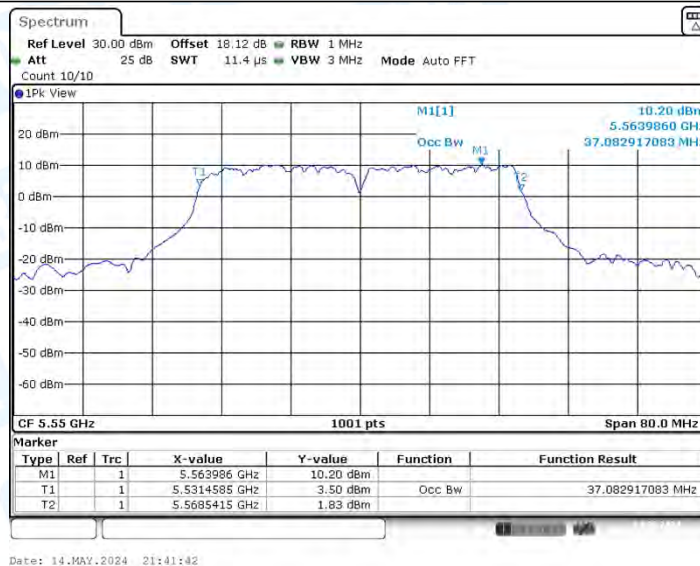
11AC40SISO_Ant1_5310



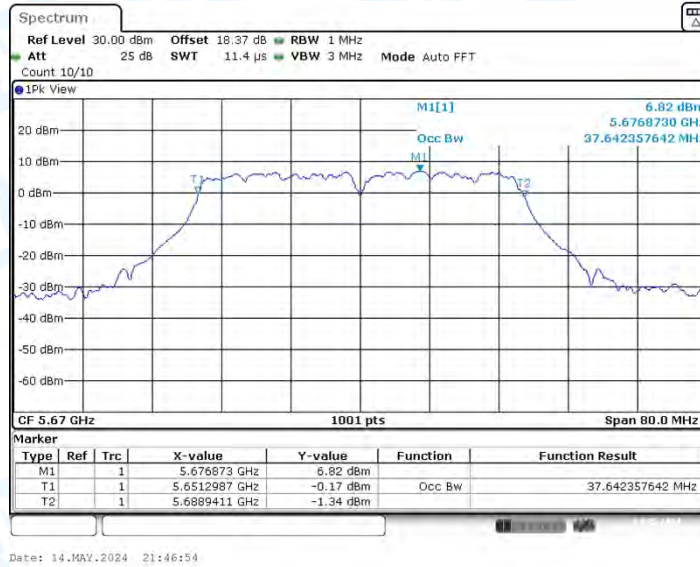
11AC40SISO_Ant1_5510



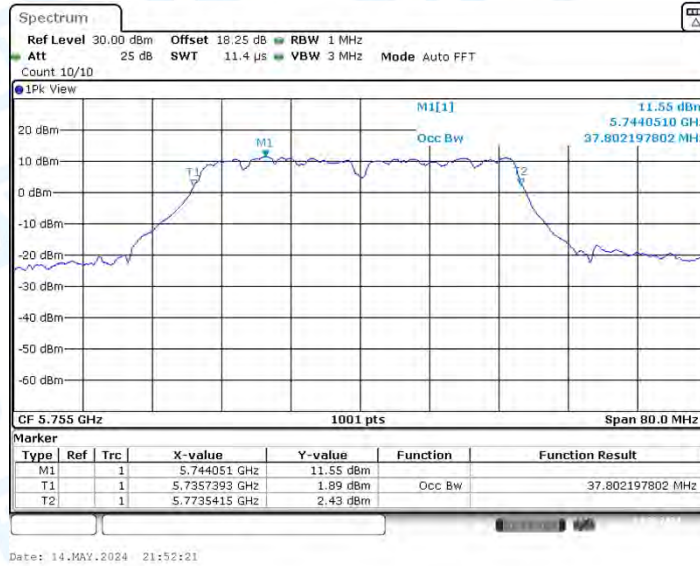
11AC40SISO_Ant1_5550



11AC40SISO_Ant1_5670



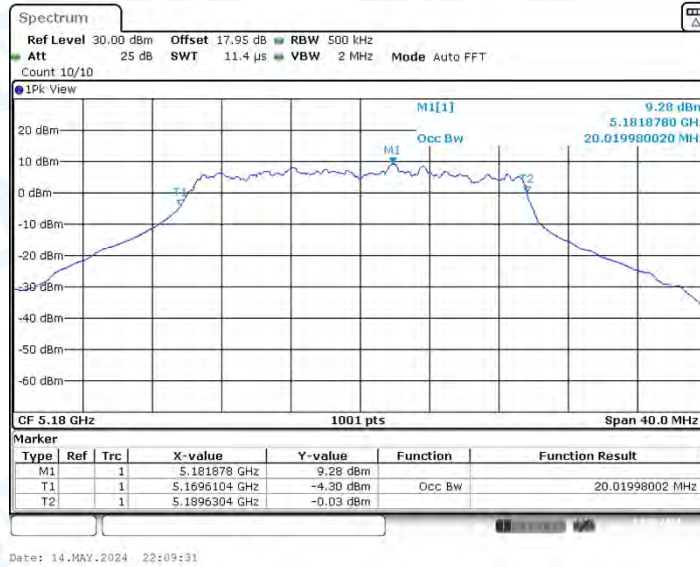
11AC40SISO_Ant1_5755



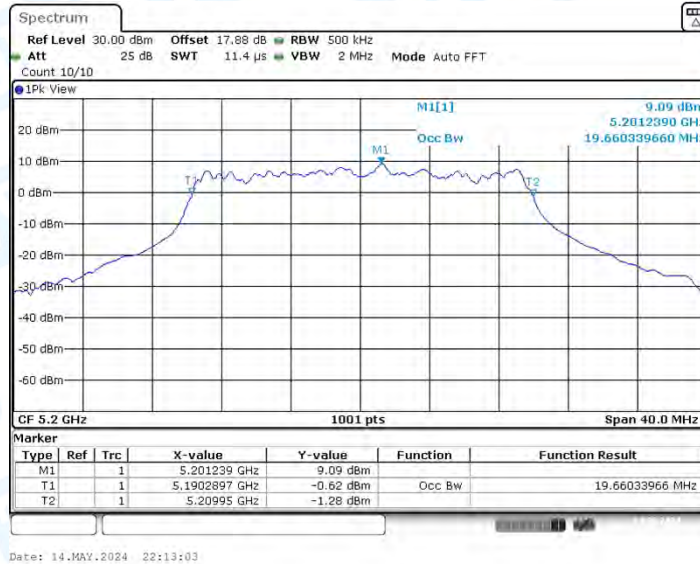
11AC40SISO_Ant1_5795



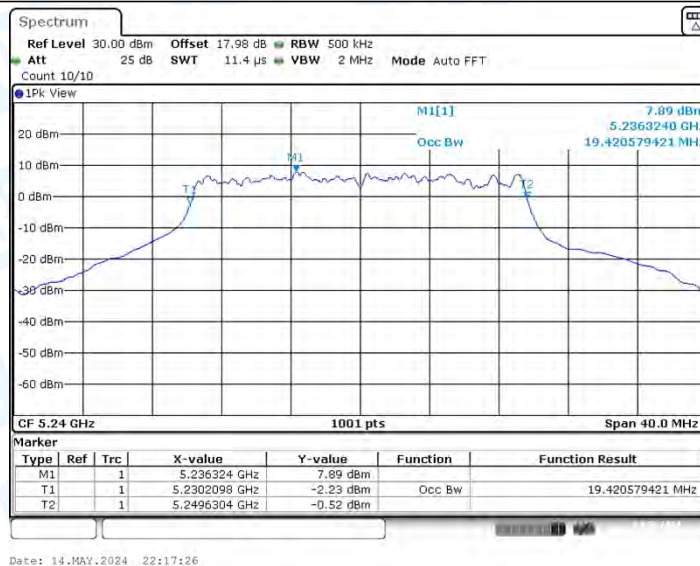
11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200



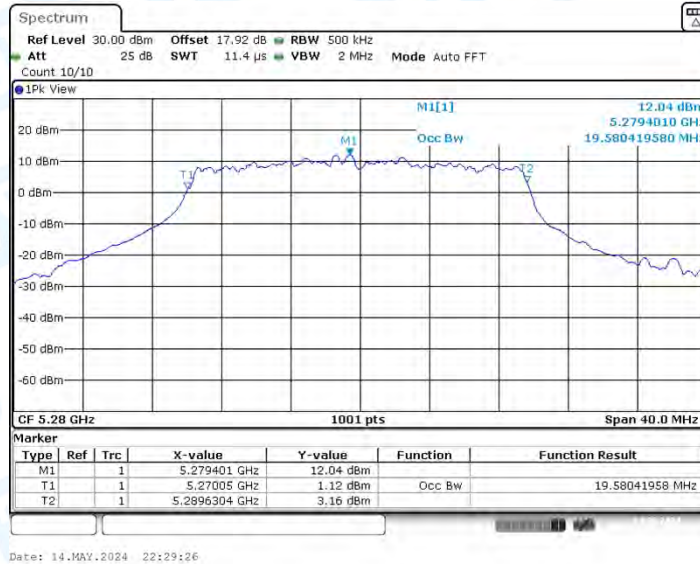
11AX20SISO_Ant1_5240



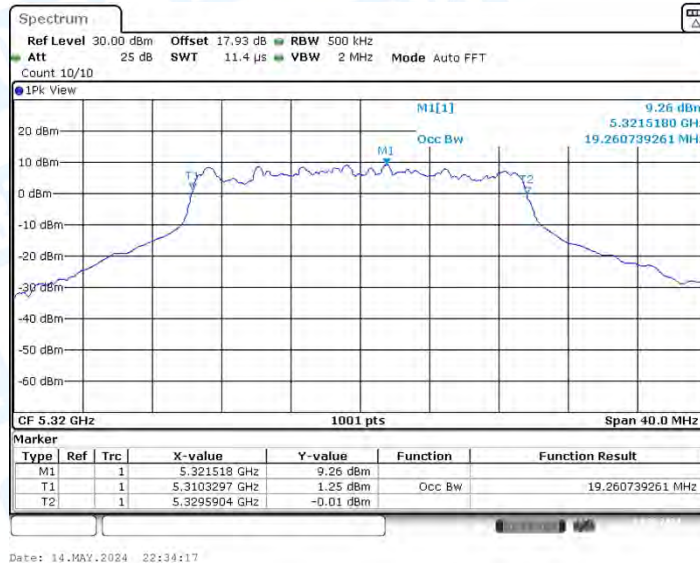
11AX20SISO_Ant1_5260



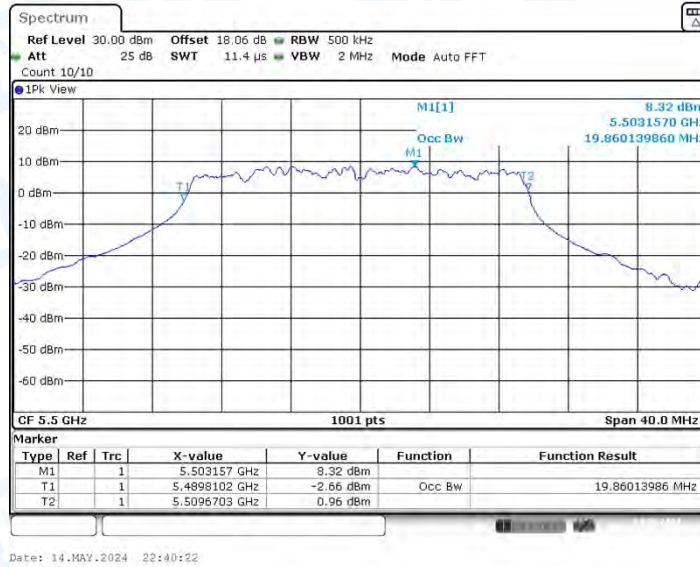
11AX20SISO_Ant1_5280



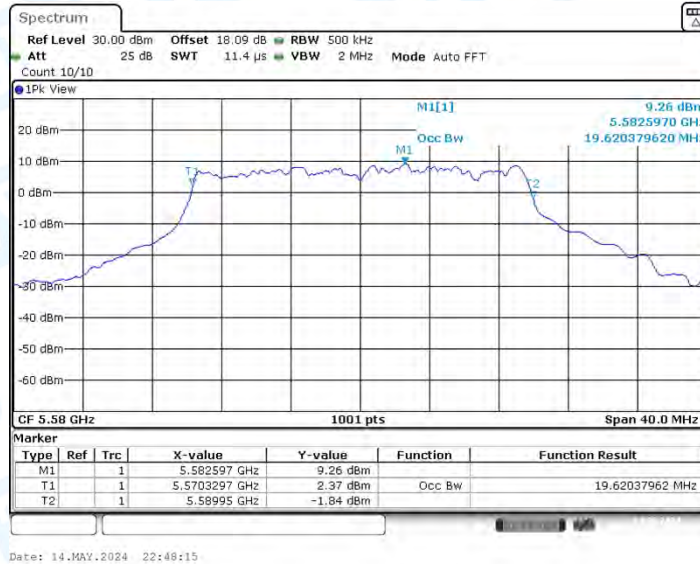
11AX20SISO_Ant1_5320



11AX20SISO_Ant1_5500



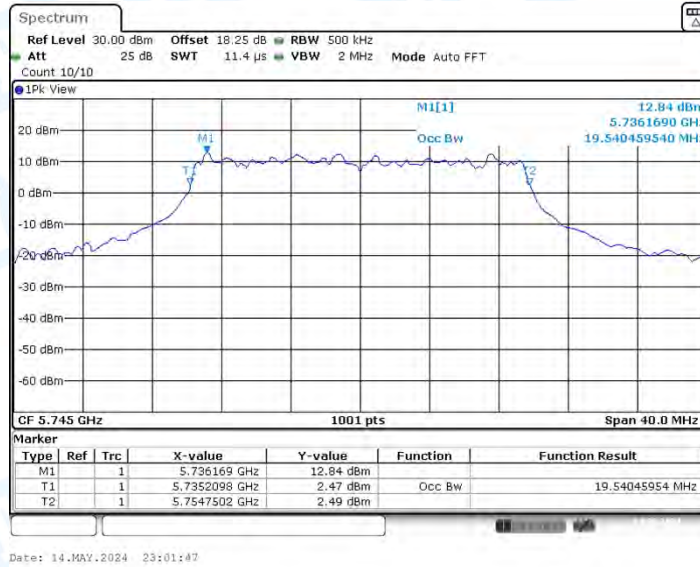
11AX20SISO_Ant1_5580



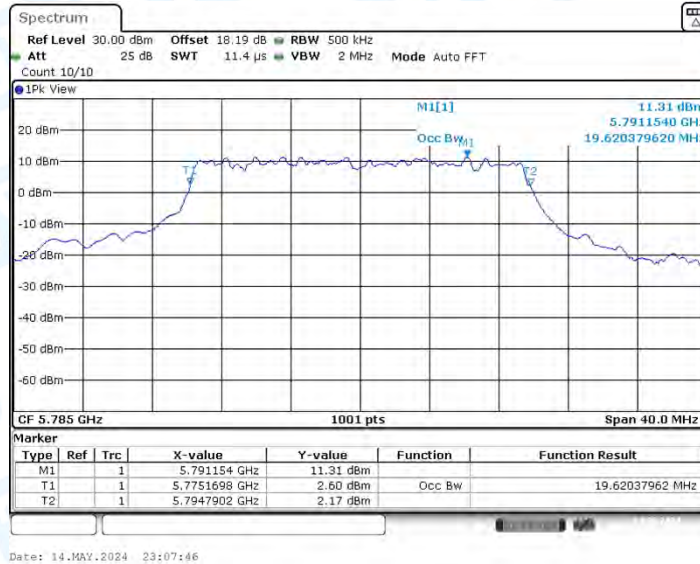
11AX20SISO_Ant1_5700



11AX20SISO_Ant1_5745



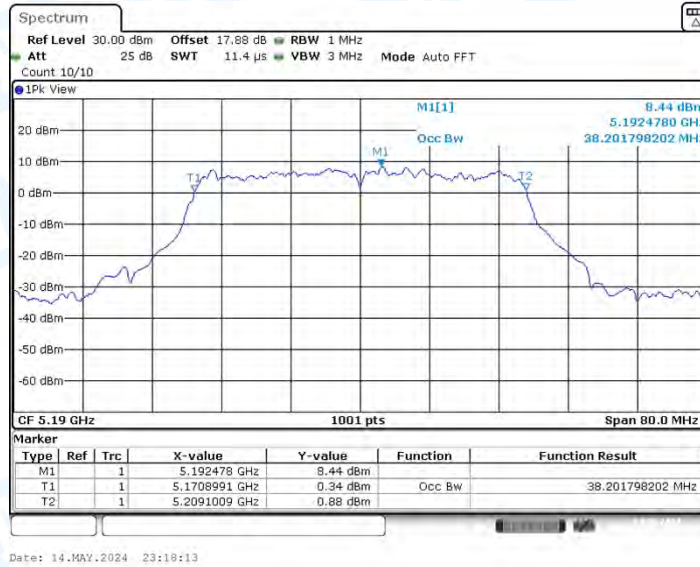
11AX20SISO_Ant1_5785



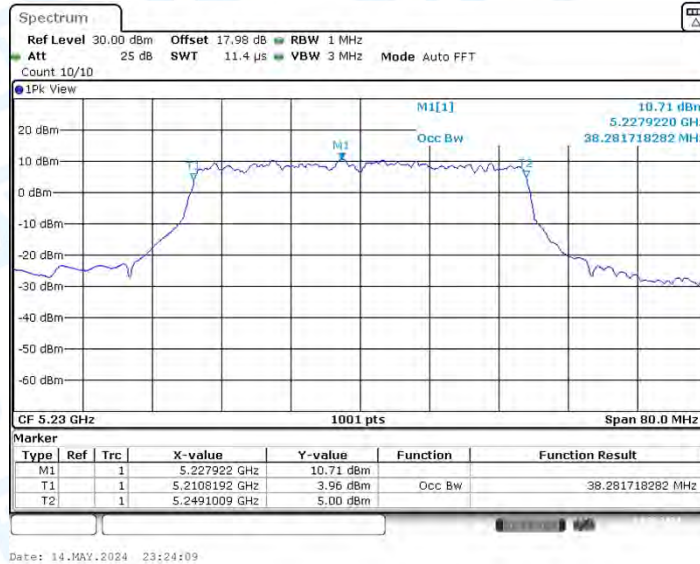
11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5190



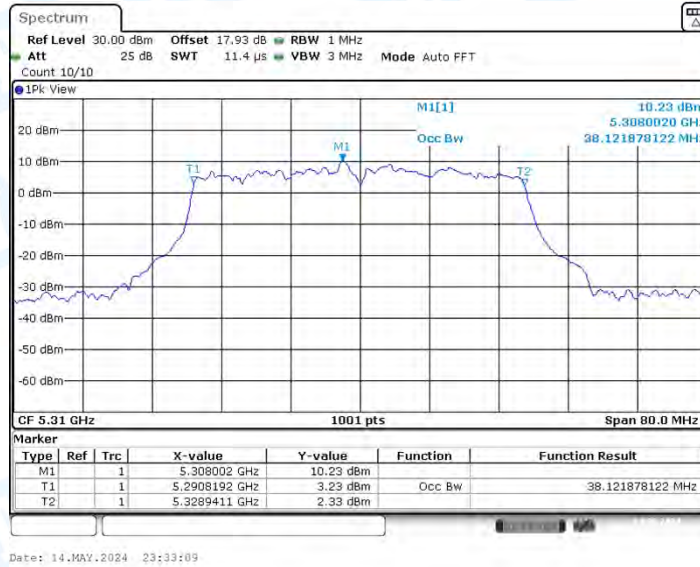
11AX40SISO_Ant1_5230



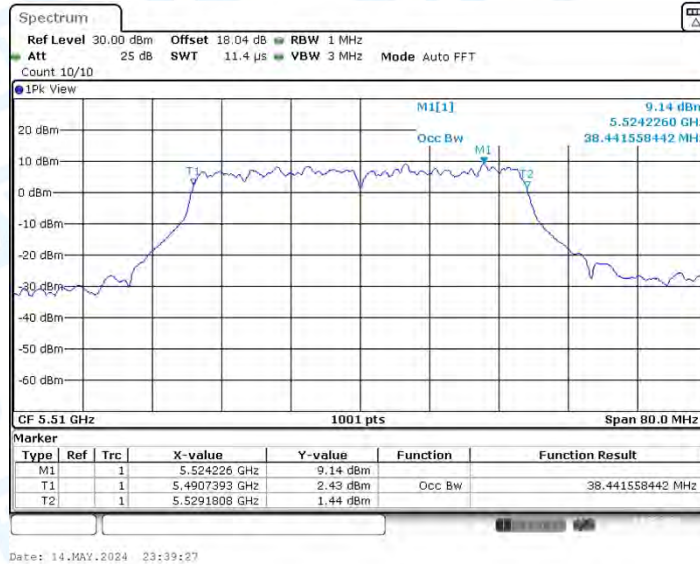
11AX40SISO_Ant1_5270



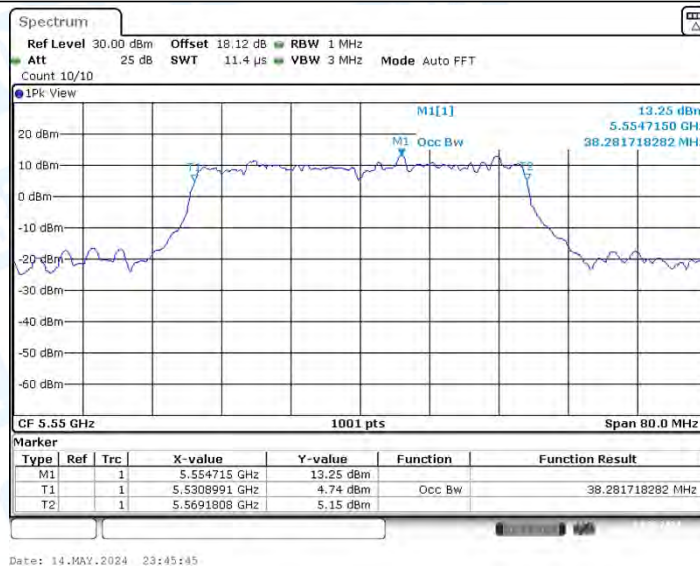
11AX40SISO_Ant1_5310



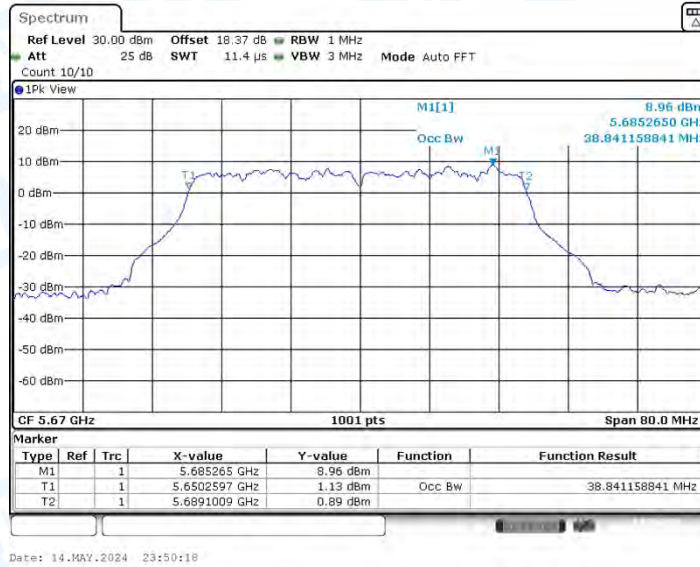
11AX40SISO_Ant1_5510



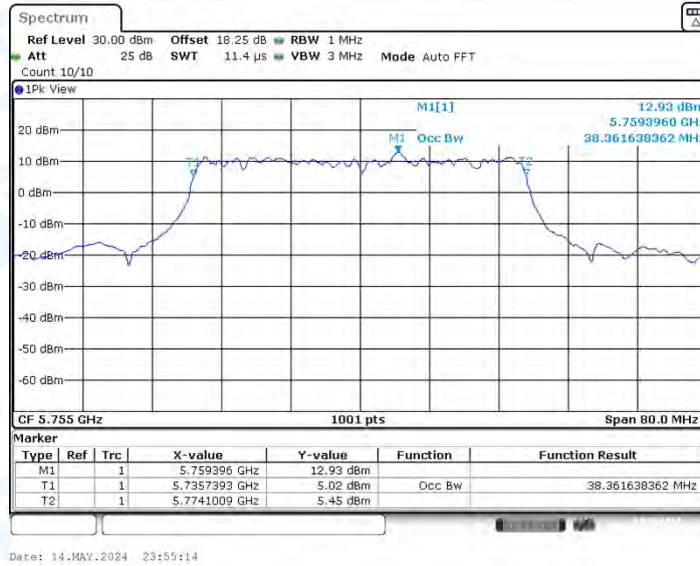
11AX40SISO_Ant1_5550



11AX40SISO_Ant1_5670



11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795



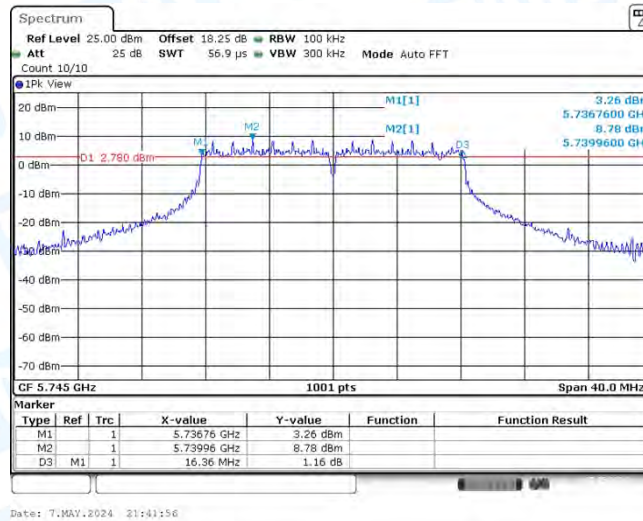
3. Min emission bandwidth

3.1. Test Result

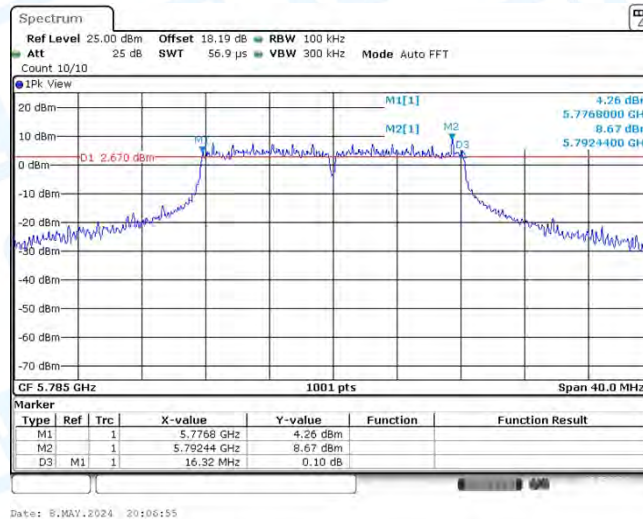
TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.36	5736.76	5753.12	0.5	PASS
		5785	16.32	5776.80	5793.12	0.5	PASS
		5825	16.36	5816.76	5833.12	0.5	PASS
11N20SISO	Ant1	5745	17.60	5736.16	5753.76	0.5	PASS
		5785	17.80	5776.04	5793.84	0.5	PASS
		5825	17.72	5816.12	5833.84	0.5	PASS
11N40SISO	Ant1	5755	36.40	5736.76	5773.16	0.5	PASS
		5795	36.40	5776.76	5813.16	0.5	PASS
11AC20SISO	Ant1	5745	17.60	5736.16	5753.76	0.5	PASS
		5785	17.80	5776.08	5793.88	0.5	PASS
		5825	17.60	5816.20	5833.80	0.5	PASS
11AC40SISO	Ant1	5755	36.40	5736.76	5773.16	0.5	PASS
		5795	36.56	5776.68	5813.24	0.5	PASS
11AX20SISO	Ant1	5745	19.08	5735.48	5754.56	0.5	PASS
		5785	19.04	5775.44	5794.48	0.5	PASS
		5825	19.16	5815.36	5834.52	0.5	PASS
11AX40SISO	Ant1	5755	38.16	5735.88	5774.04	0.5	PASS
		5795	38.32	5775.80	5814.12	0.5	PASS

3.2.Test Graphs

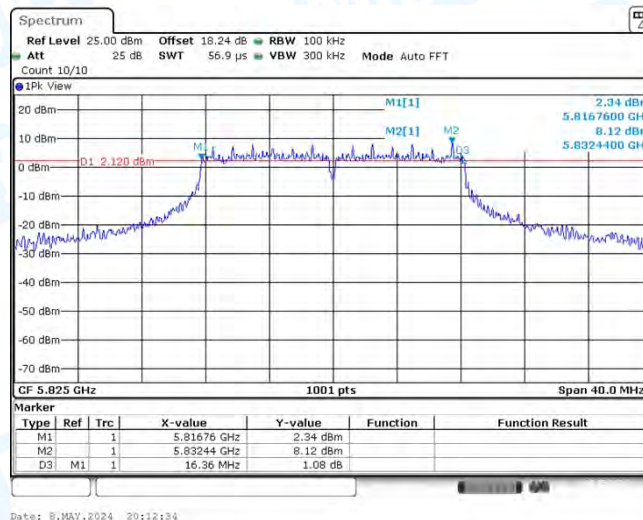
11A_Ant1_5745



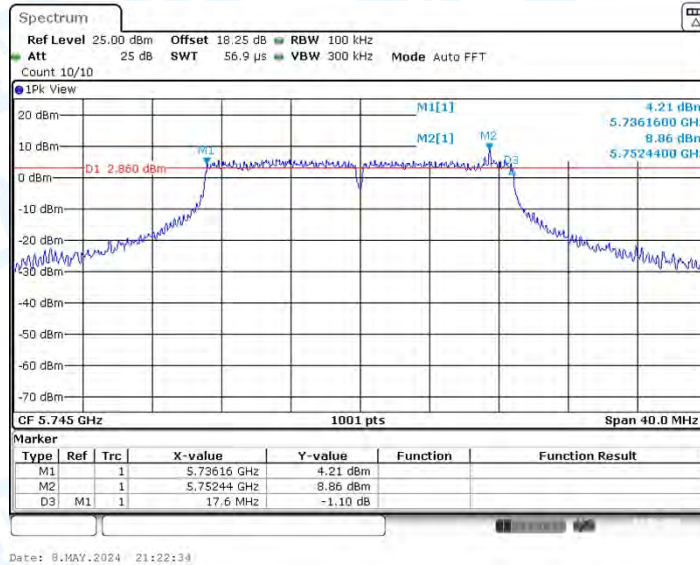
11A_Ant1_5785



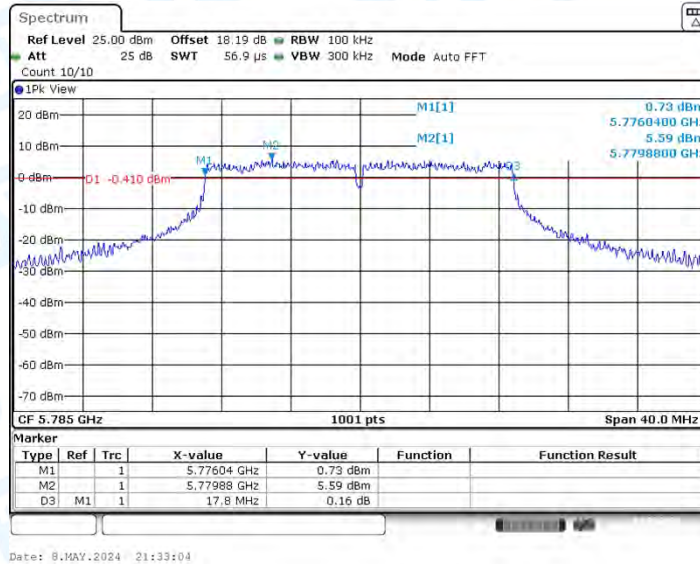
11A_Ant1_5825



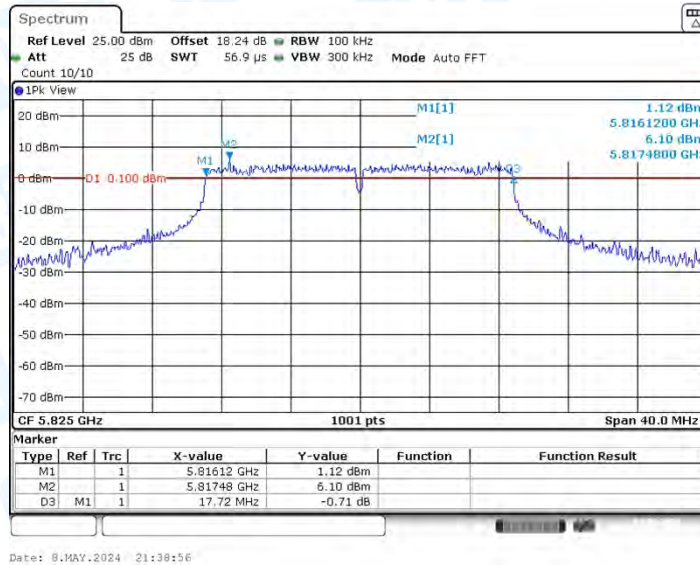
11N20SISO_Ant1_5745



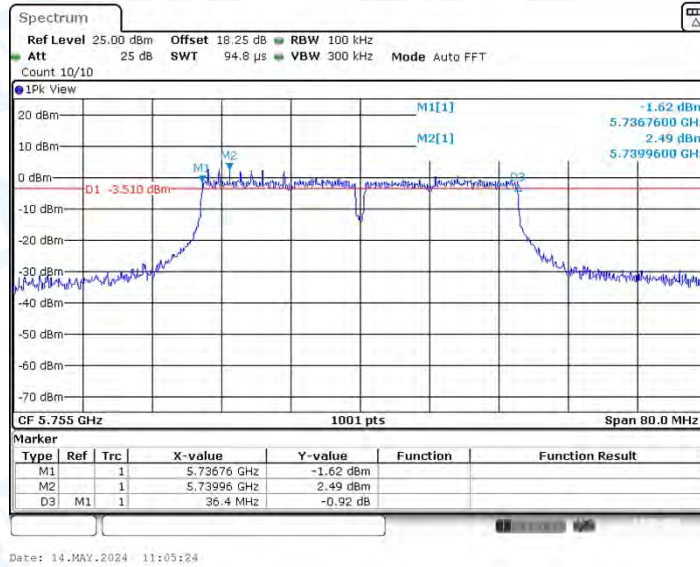
11N20SISO_Ant1_5785



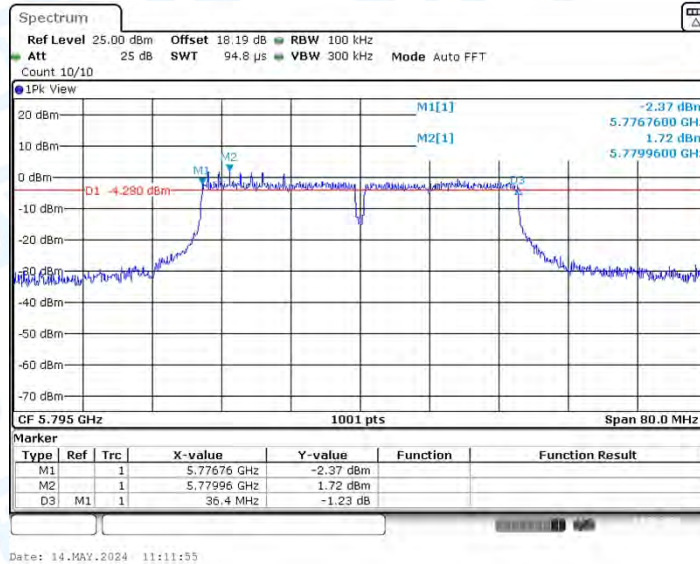
11N20SISO_Ant1_5825



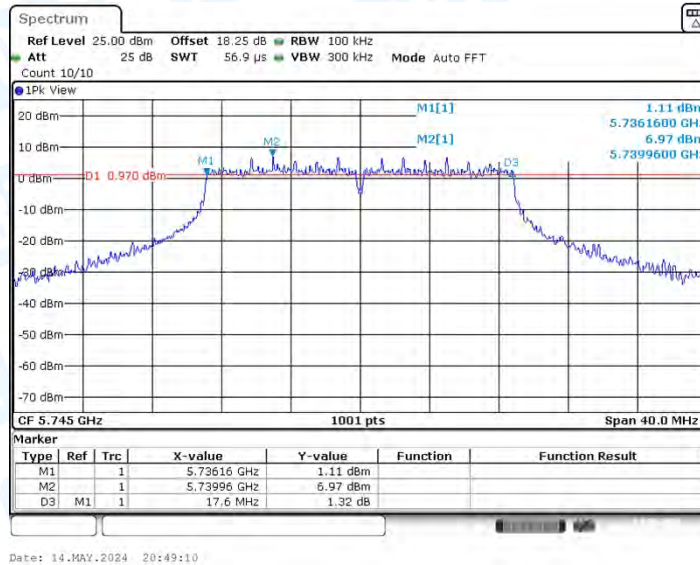
11N40SISO_Ant1_5755



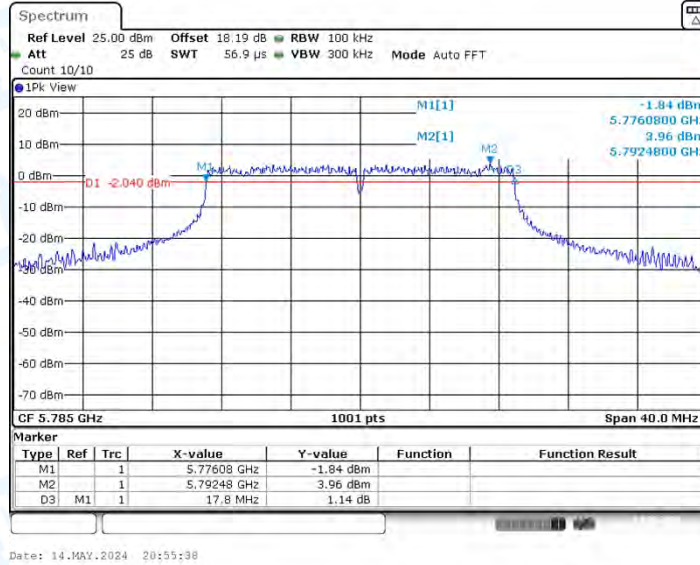
11N40SISO_Ant1_5795



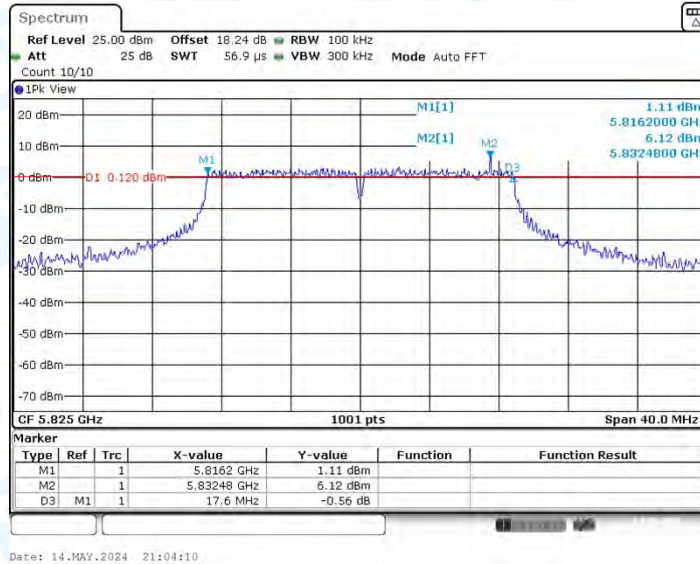
11AC20SISO_Ant1_5745



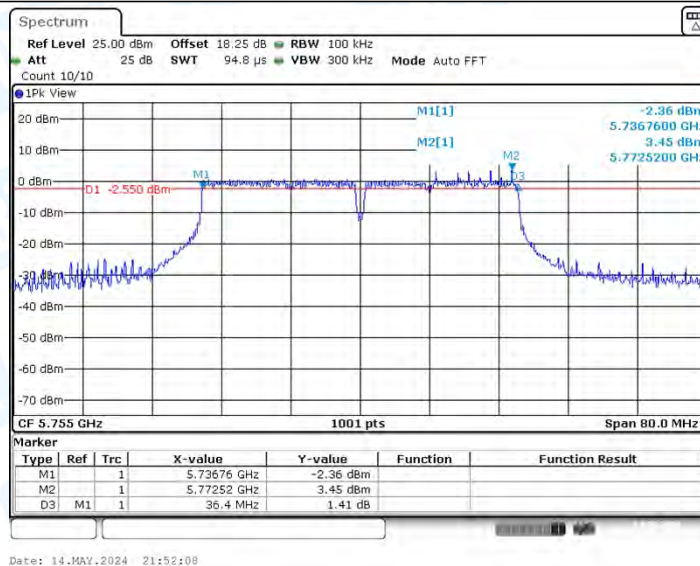
11AC20SISO_Ant1_5785



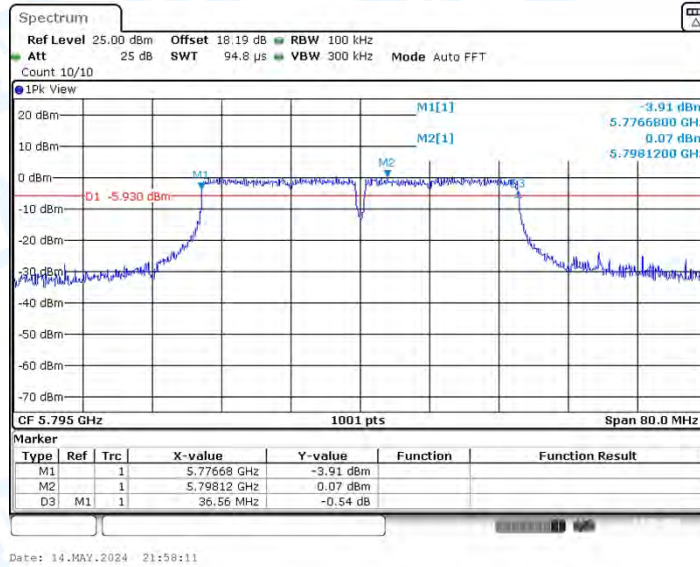
11AC20SISO_Ant1_5825



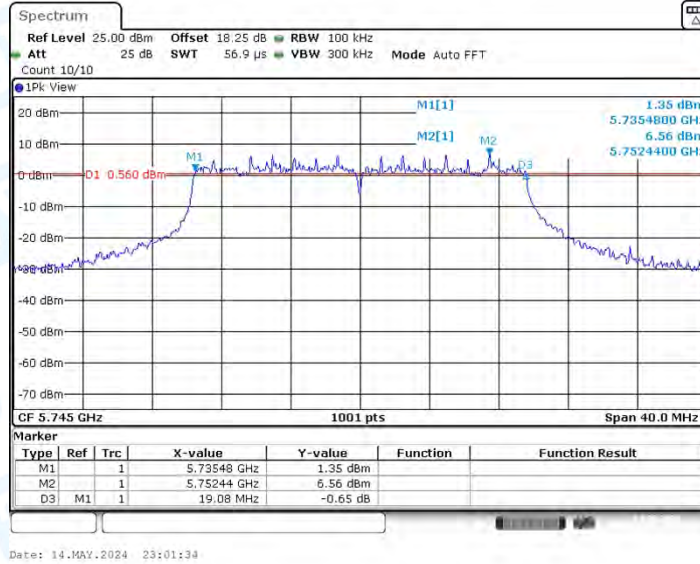
11AC40SISO_Ant1_5755



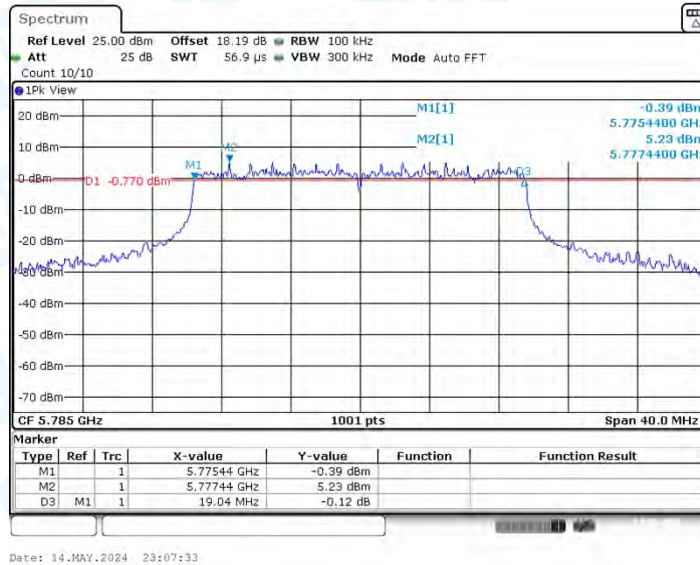
11AC40SISO_Ant1_5795



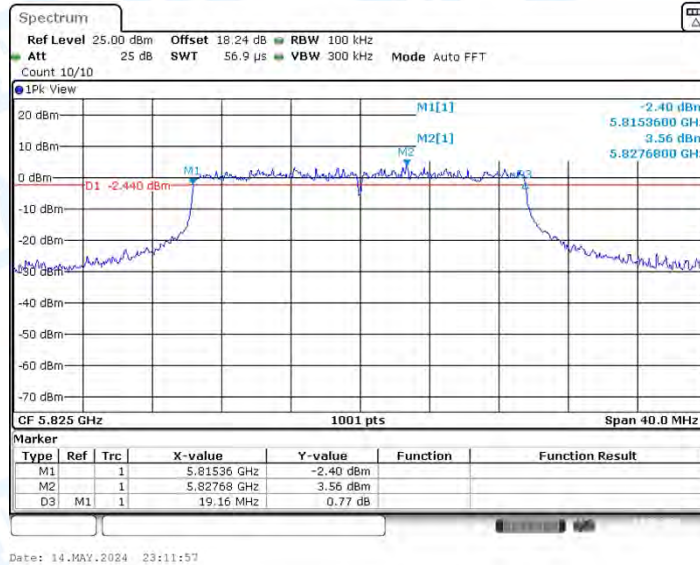
11AX20SISO_Ant1_5745



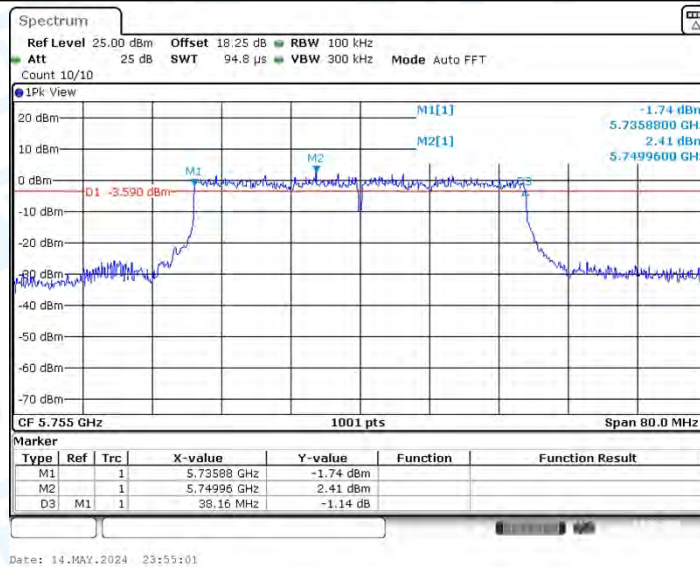
11AX20SISO_Ant1_5785



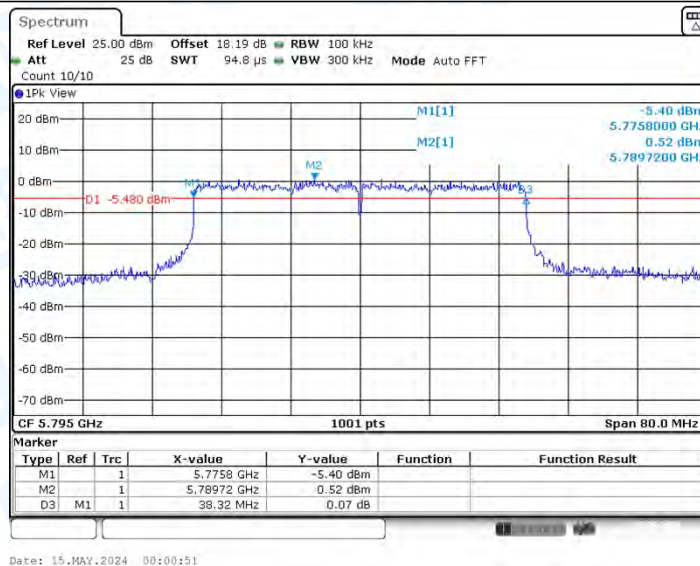
11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795



4. Maximum conducted output power

4.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	13.58	≤23.98	PASS
		5200	16.43	≤23.98	PASS
		5240	16.40	≤23.98	PASS
		5260	16.80	≤23.98	PASS
		5280	17.05	≤23.98	PASS
		5320	14.35	≤23.98	PASS
		5500	13.28	≤23.98	PASS
		5580	13.87	≤23.98	PASS
		5700	11.91	≤23.98	PASS
		5745	16.53	≤30.00	PASS
		5785	16.33	≤30.00	PASS
11N20SISO	Ant1	5825	16.02	≤30.00	PASS
		5180	12.47	≤23.98	PASS
		5200	16.25	≤23.98	PASS
		5240	16.05	≤23.98	PASS
		5260	16.78	≤23.98	PASS
		5280	17.01	≤23.98	PASS
		5320	13.29	≤23.98	PASS
		5500	12.65	≤23.98	PASS
		5580	13.29	≤23.98	PASS
		5700	11.69	≤23.98	PASS
		5745	16.59	≤30.00	PASS
11N40SISO	Ant1	5785	15.56	≤30.00	PASS
		5825	15.03	≤30.00	PASS
		5190	10.30	≤23.98	PASS
		5230	16.48	≤23.98	PASS
		5270	16.60	≤23.98	PASS
		5310	9.75	≤23.98	PASS
		5510	12.65	≤23.98	PASS
		5550	15.67	≤23.98	PASS
		5670	12.34	≤23.98	PASS
11AC20SISO	Ant1	5755	16.44	≤30.00	PASS
		5795	14.81	≤30.00	PASS
		5180	12.19	≤23.98	PASS
		5200	16.38	≤23.98	PASS
		5240	15.46	≤23.98	PASS
		5260	16.06	≤23.98	PASS
		5280	16.17	≤23.98	PASS
		5320	16.46	≤23.98	PASS
	Ant1	5500	13.18	≤23.98	PASS

		5580	13.48	≤23.98	PASS
		5700	11.87	≤23.98	PASS
		5745	16.81	≤30.00	PASS
		5785	16.46	≤30.00	PASS
		5825	15.99	≤30.00	PASS
11AC40SISO	Ant1	5190	12.69	≤23.98	PASS
		5230	16.17	≤23.98	PASS
		5270	16.81	≤23.98	PASS
		5310	13.35	≤23.98	PASS
		5510	13.30	≤23.98	PASS
		5550	15.90	≤23.98	PASS
		5670	12.80	≤23.98	PASS
		5755	16.48	≤30.00	PASS
11AX20SISO	Ant1	5795	16.72	≤30.00	PASS
		5180	13.20	≤23.98	PASS
		5200	16.08	≤23.98	PASS
		5240	15.28	≤23.98	PASS
		5260	15.99	≤23.98	PASS
		5280	16.10	≤23.98	PASS
		5320	13.12	≤23.98	PASS
		5500	13.70	≤23.98	PASS
		5580	13.52	≤23.98	PASS
		5700	16.20	≤23.98	PASS
		5745	16.45	≤30.00	PASS
		5785	16.01	≤30.00	PASS
11AX40SISO	Ant1	5825	15.52	≤30.00	PASS
		5190	12.40	≤23.98	PASS
		5230	15.30	≤23.98	PASS
		5270	16.47	≤23.98	PASS
		5310	13.07	≤23.98	PASS
		5510	13.32	≤23.98	PASS
		5550	16.32	≤23.98	PASS
		5670	12.38	≤23.98	PASS
		5755	16.31	≤30.00	PASS
		5795	16.43	≤30.00	PASS

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

5. Maximum power spectral density

5.1. Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	5.42	≤11.00	PASS
		5200	8.39	≤11.00	PASS
		5240	8.08	≤11.00	PASS
		5260	9.03	≤11.00	PASS
		5280	9.03	≤11.00	PASS
		5320	6.78	≤11.00	PASS
		5500	4.69	≤11.00	PASS
		5580	5.82	≤11.00	PASS
		5700	4.29	≤11.00	PASS
		5745	5.57	≤30.00	PASS
		5785	5.47	≤30.00	PASS
11N20SISO	Ant1	5825	5.12	≤30.00	PASS
		5180	4.61	≤11.00	PASS
		5200	8.45	≤11.00	PASS
		5240	8.25	≤11.00	PASS
		5260	9.05	≤11.00	PASS
		5280	8.76	≤11.00	PASS
		5320	5.40	≤11.00	PASS
		5500	4.31	≤11.00	PASS
		5580	5.33	≤11.00	PASS
		5700	3.90	≤11.00	PASS
		5745	5.05	≤30.00	PASS
11N40SISO	Ant1	5785	4.31	≤30.00	PASS
		5825	3.75	≤30.00	PASS
		5190	-0.10	≤11.00	PASS
		5230	5.53	≤11.00	PASS
		5270	5.44	≤11.00	PASS
		5310	-1.27	≤11.00	PASS
		5510	-1.18	≤11.00	PASS
		5550	1.91	≤11.00	PASS
		5670	-1.18	≤11.00	PASS
11AC20SISO	Ant1	5755	-0.75	≤30.00	PASS
		5795	-2.54	≤30.00	PASS
		5180	1.74	≤11.00	PASS
		5200	6.00	≤11.00	PASS
		5240	5.20	≤11.00	PASS
		5260	5.69	≤11.00	PASS
		5280	5.64	≤11.00	PASS
	Ant1	5320	6.24	≤11.00	PASS
		5500	2.52	≤11.00	PASS