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

General Description of EUT	
Product Name:	USB WiFi Dongle
Test Model:	XTC-600
Sample ID:	HC-C-202407-0095-01-01-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 5V
Test Engineer:	ZKN ZHOU
Note: For a more detailed features description, please refer to the report TBR-C-202407-0095-22	

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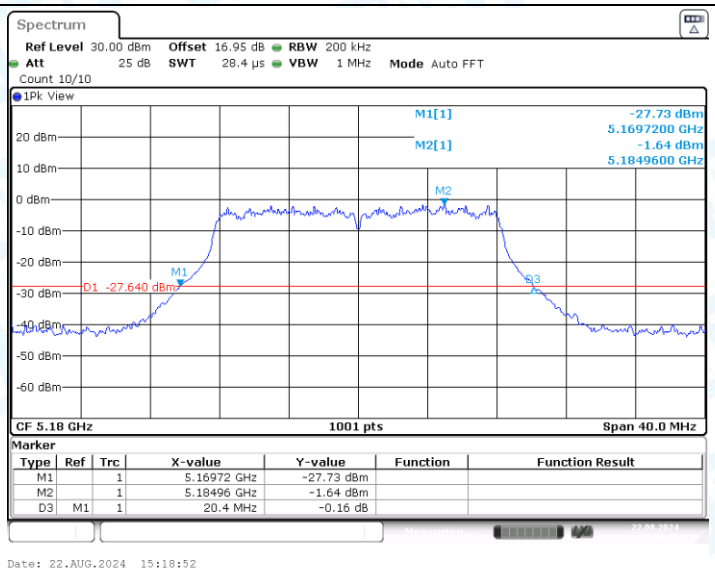
1. Emission Bandwidth

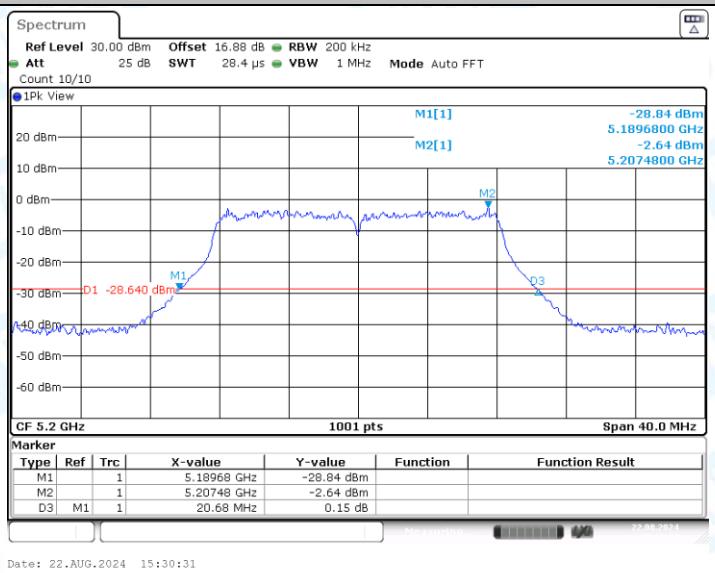
1.1.Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.40	5169.72	5190.12	---	---
		5200	20.68	5189.68	5210.36	---	---
		5240	20.76	5229.52	5250.28	---	---
11N20SISO	Ant1	5180	20.88	5169.44	5190.32	---	---
		5200	20.88	5189.52	5210.40	---	---
		5240	20.96	5229.40	5250.36	---	---
11N40SISO	Ant1	5190	41.84	5168.72	5210.56	---	---
		5230	42.56	5208.80	5251.36	---	---
11AC20SISO	Ant1	5180	20.88	5169.44	5190.32	---	---
		5200	20.96	5189.48	5210.44	---	---
		5240	21.16	5229.28	5250.44	---	---
11AC40SISO	Ant1	5190	42.48	5168.88	5211.36	---	---
		5230	42.08	5209.20	5251.28	---	---
11AC80SISO	Ant1	5210	79.36	5170.00	5249.36	---	---

2.1.Test Graphs



11A_Ant1_5180



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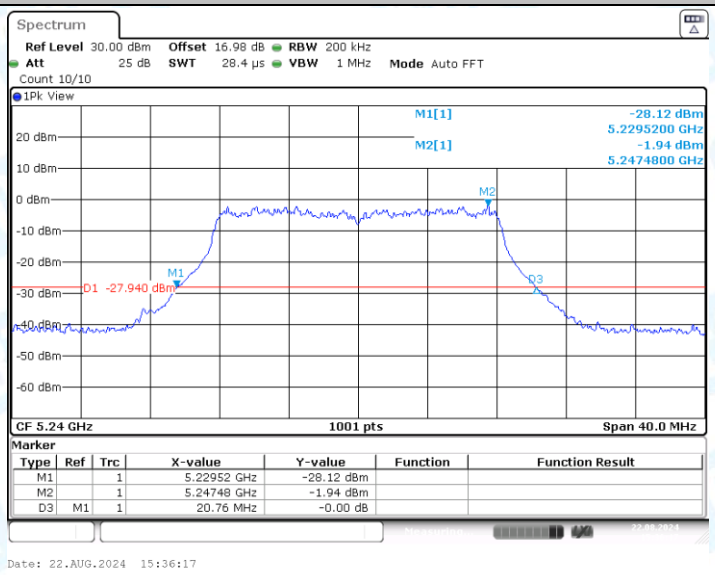

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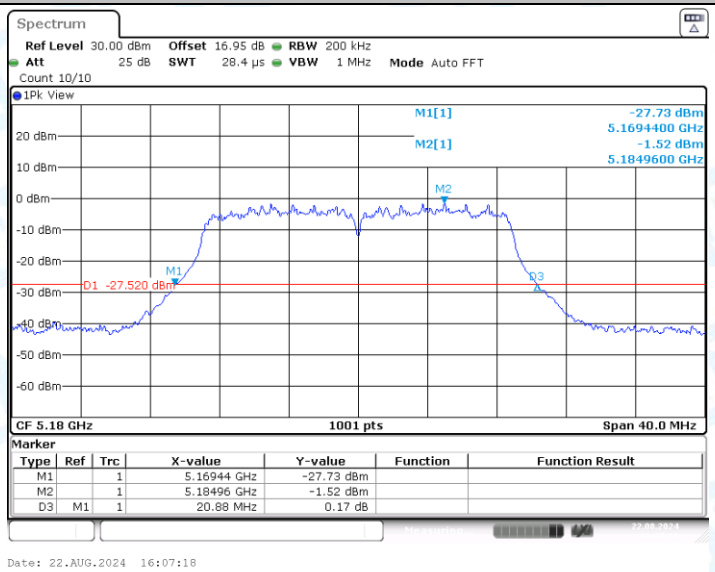

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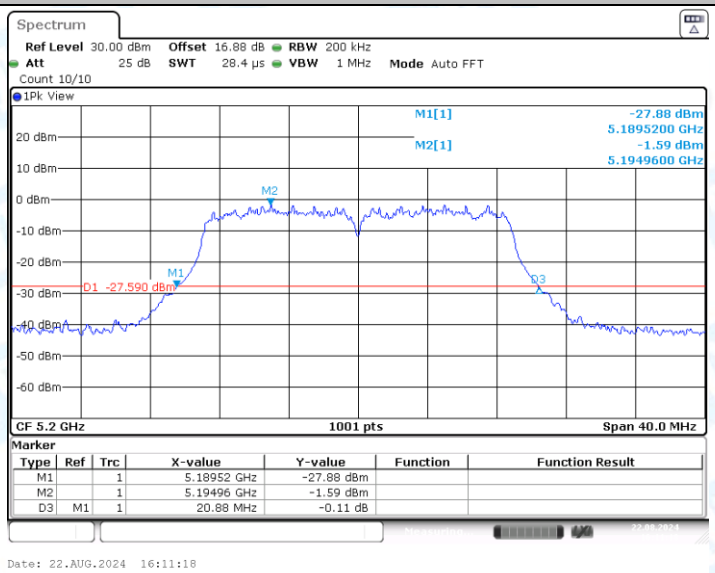

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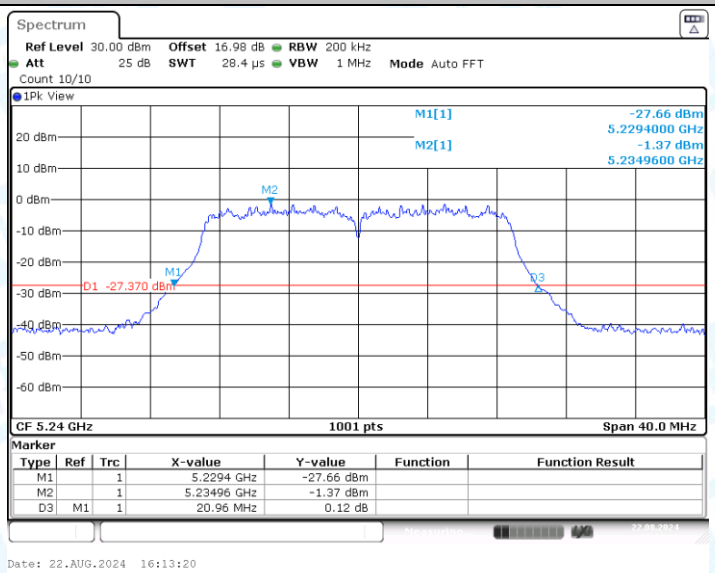

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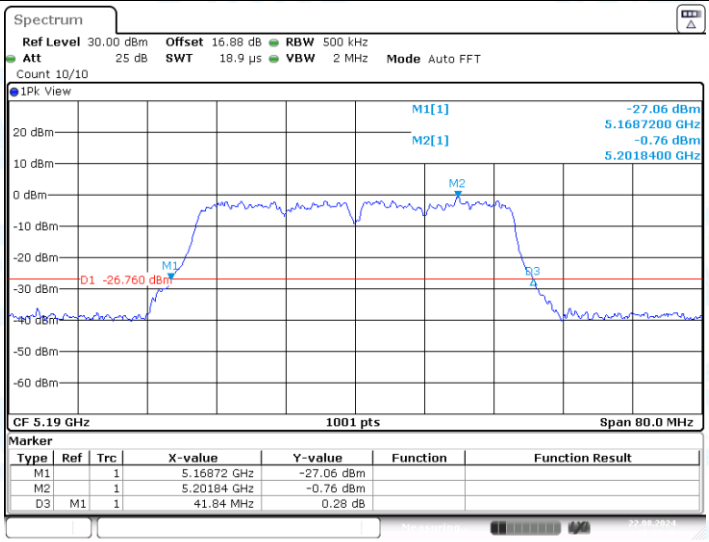

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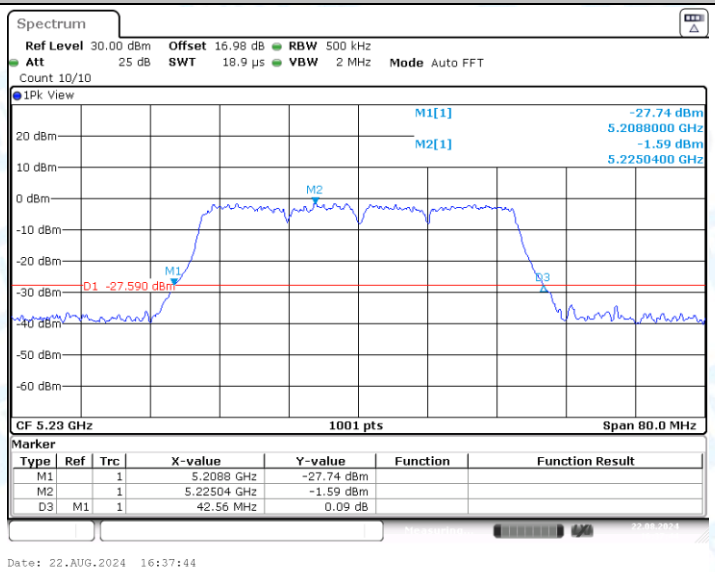

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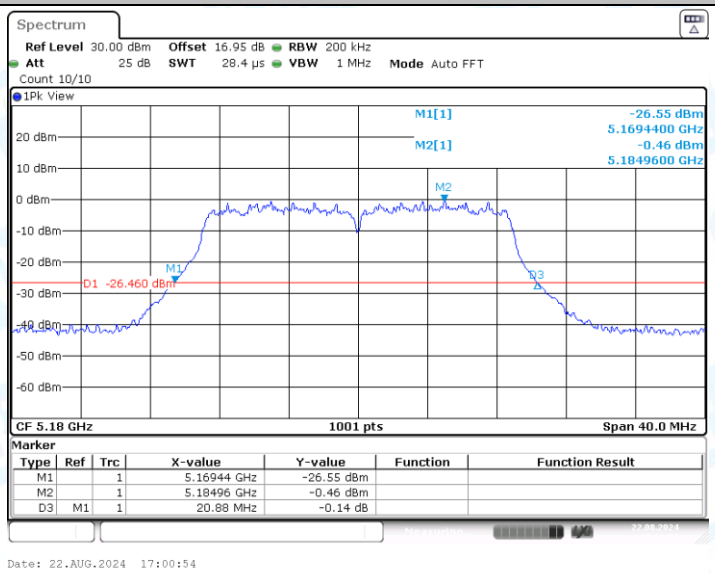

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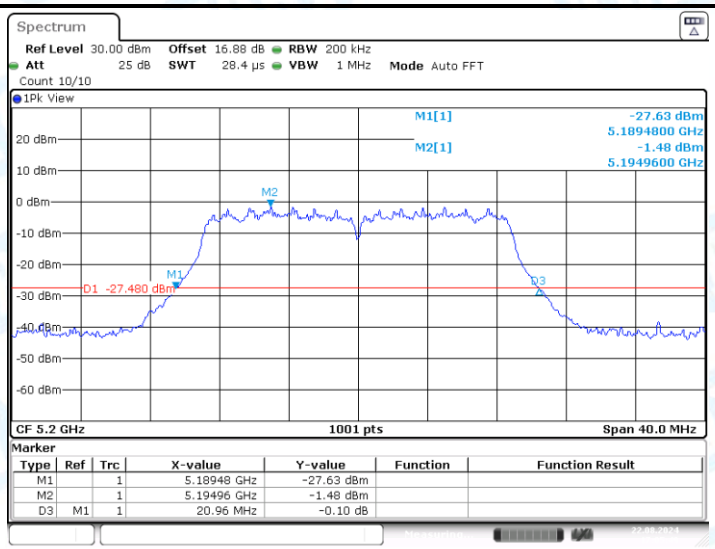

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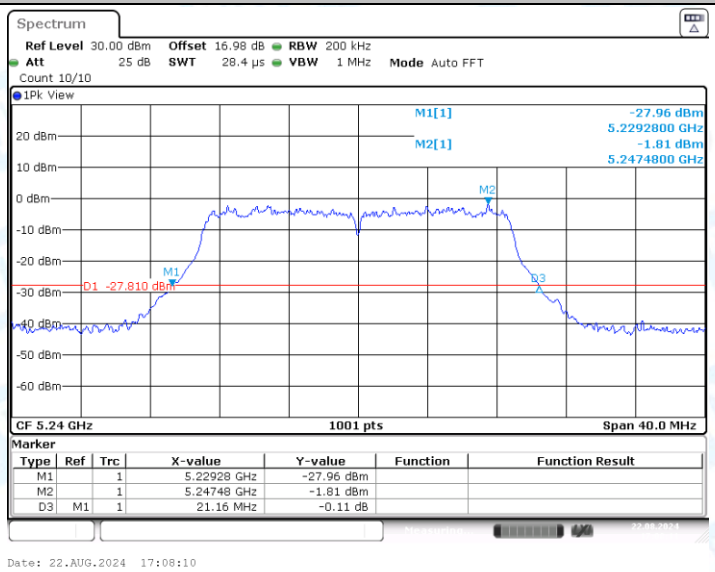

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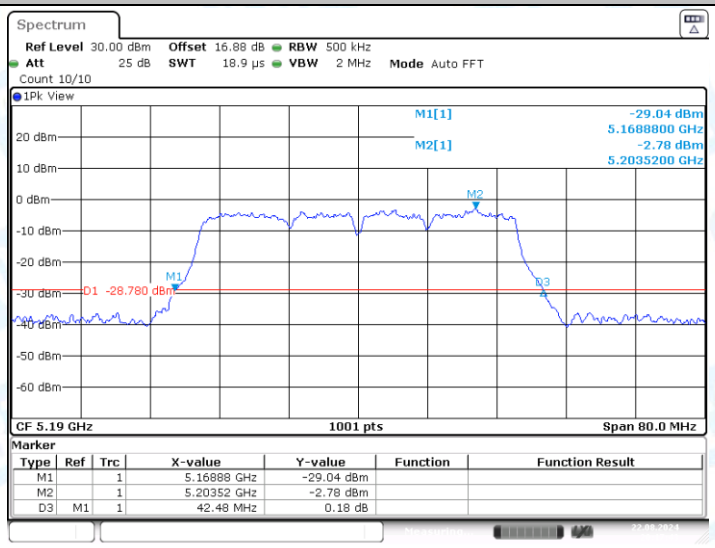

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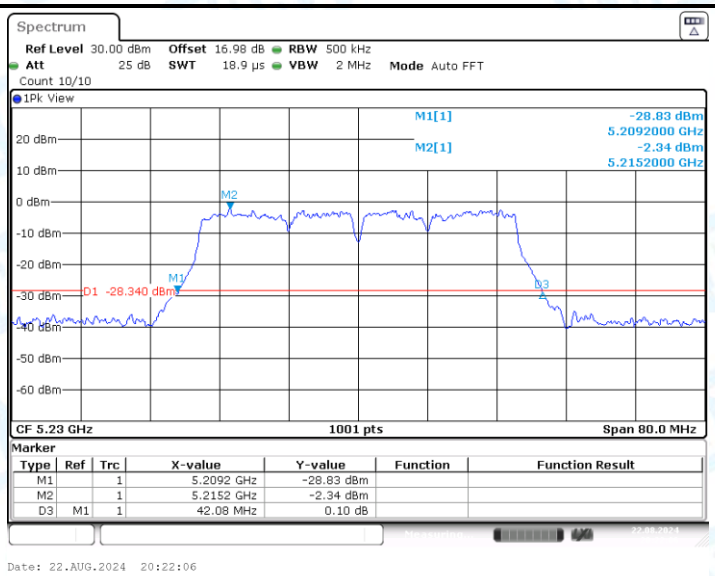

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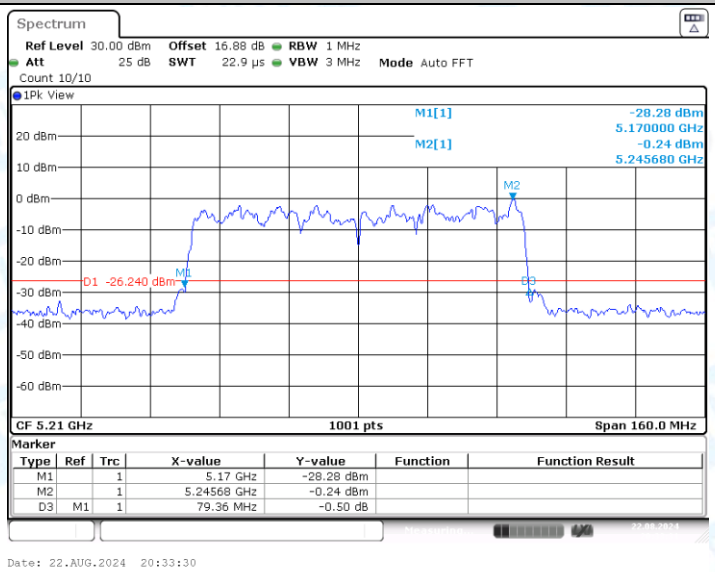


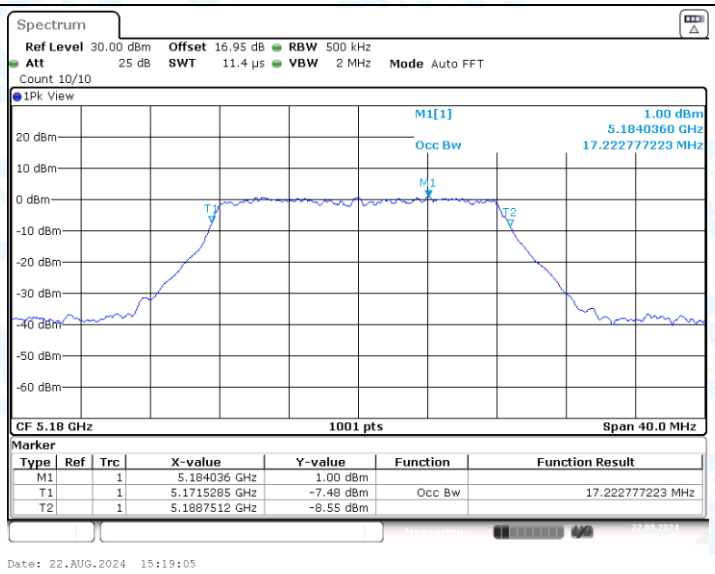
11AC80SISO_Ant1_5210

2. Occupied channel bandwidth

2.1.Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.223	5171.5285	5188.7512	---	---
		5200	17.303	5191.2887	5208.5914	---	---
		5240	17.143	5231.5285	5248.6713	---	---
		5745	17.023	5736.4486	5753.4715	---	---
		5785	17.343	5776.3287	5793.6713	---	---
		5825	17.143	5816.3287	5833.4715	---	---
11N20SISO	Ant1	5180	18.182	5170.8092	5188.9910	---	---
		5200	18.142	5190.8891	5209.0310	---	---
		5240	18.182	5230.8092	5248.9910	---	---
		5745	18.062	5735.9291	5753.9910	---	---
		5785	18.102	5775.8891	5793.9910	---	---
		5825	18.062	5816.0490	5834.1109	---	---
11N40SISO	Ant1	5190	36.284	5171.8581	5208.1419	---	---
		5230	36.923	5211.6983	5248.6214	---	---
		5755	36.603	5736.6184	5773.2218	---	---
		5795	36.523	5776.6983	5813.2218	---	---
11AC20SISO	Ant1	5180	18.262	5170.7692	5189.0310	---	---
		5200	18.062	5190.9291	5208.9910	---	---
		5240	18.302	5230.7293	5249.0310	---	---
		5745	18.182	5735.8891	5754.0709	---	---
		5785	18.062	5775.9690	5794.0310	---	---
		5825	18.222	5815.7692	5833.9910	---	---
11AC40SISO	Ant1	5190	36.523	5171.7782	5208.3017	---	---
		5230	36.444	5211.7782	5248.2218	---	---
		5755	36.763	5736.6184	5773.3816	---	---
		5795	36.284	5776.8581	5813.1419	---	---
11AC80SISO	Ant1	5210	75.924	5172.1179	5248.0420	---	---
		5775	76.883	5736.7982	5813.6813	---	---

2.2.Test Graphs



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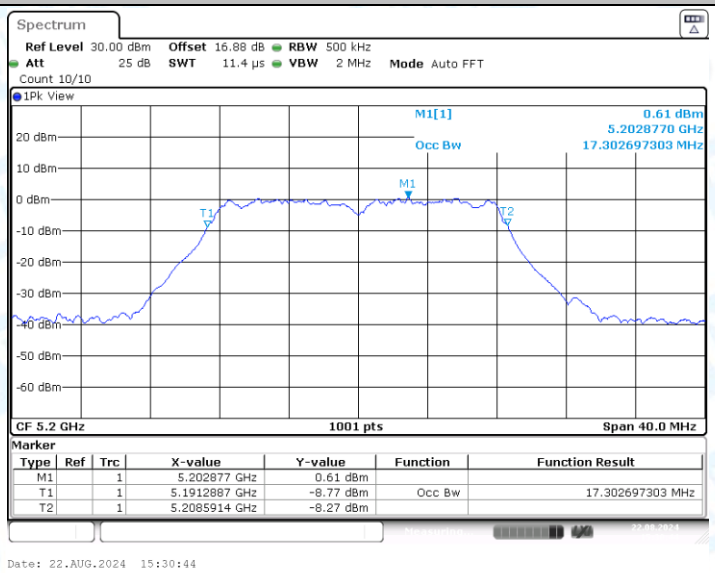

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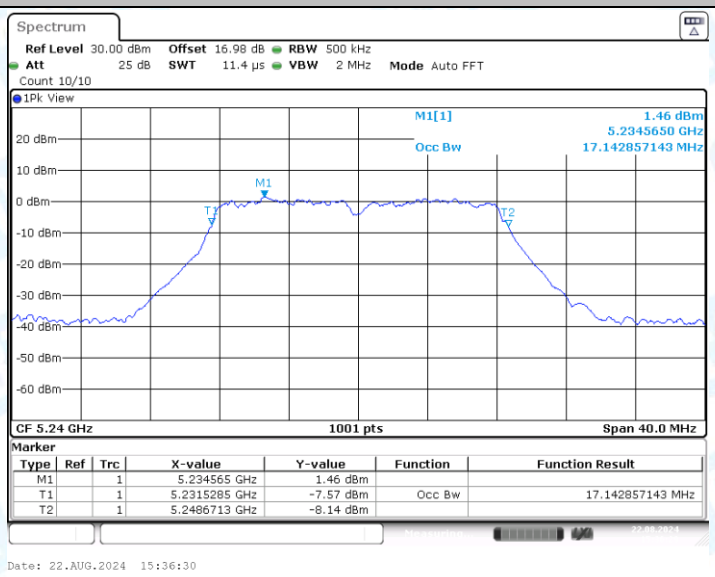

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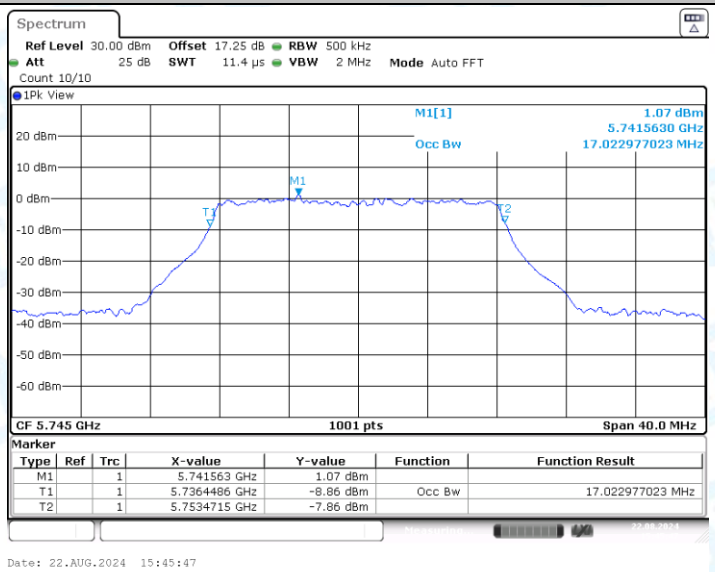

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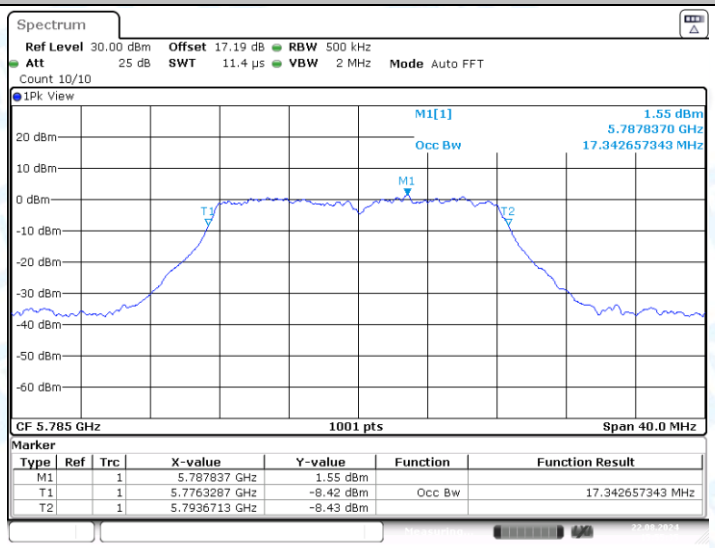

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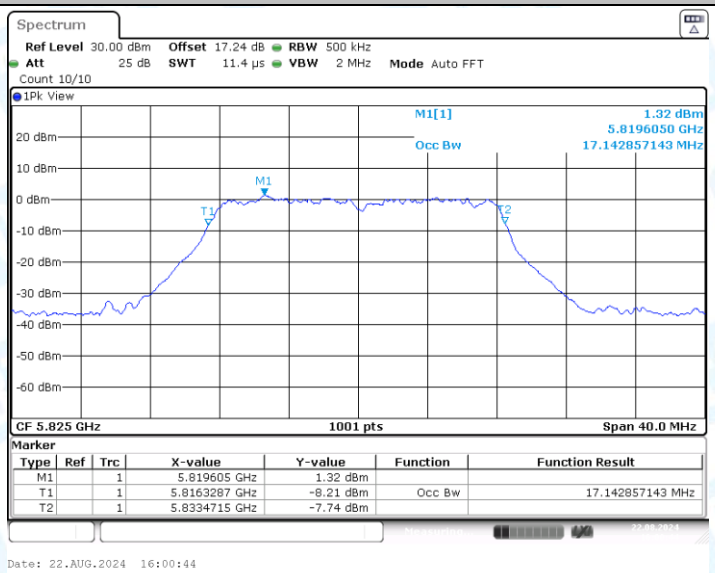

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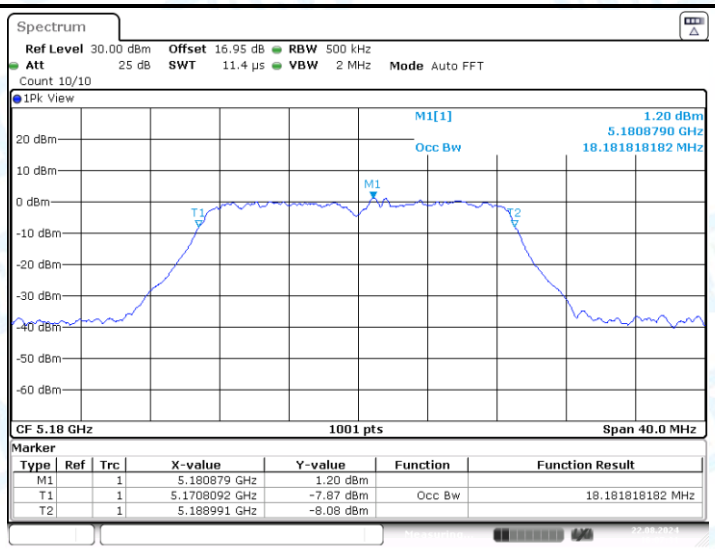

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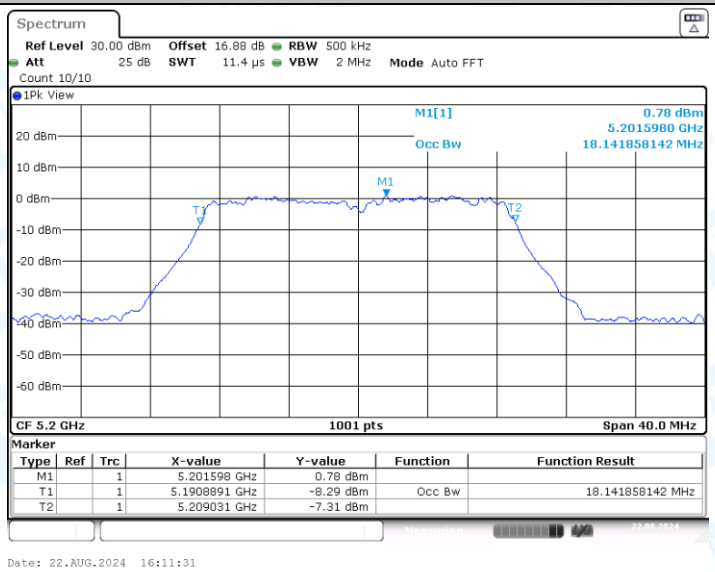

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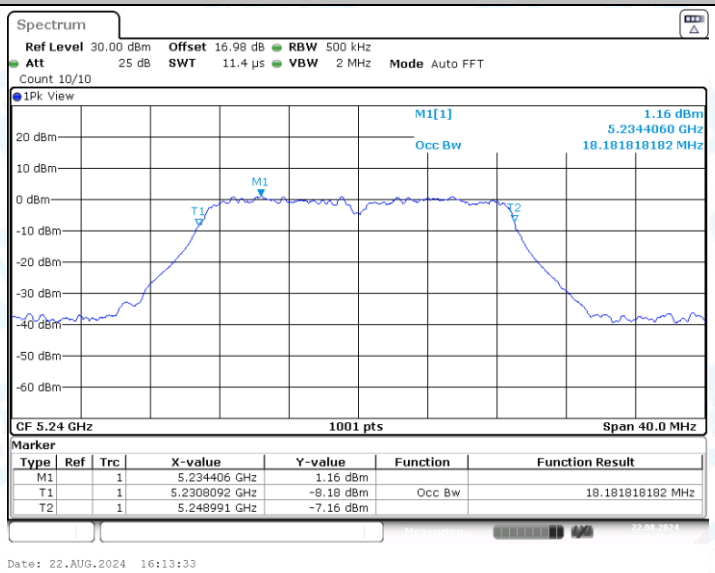

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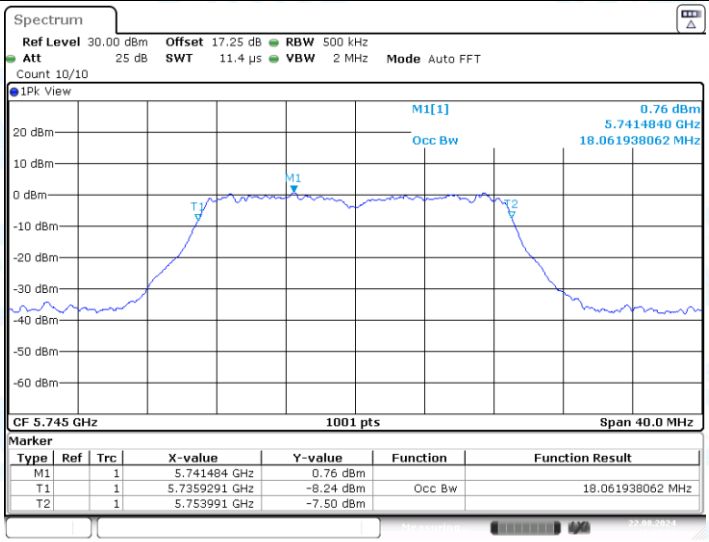

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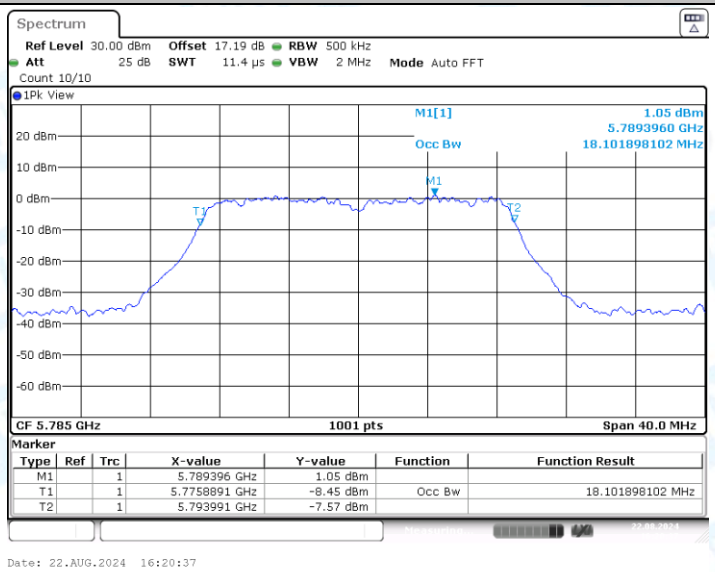

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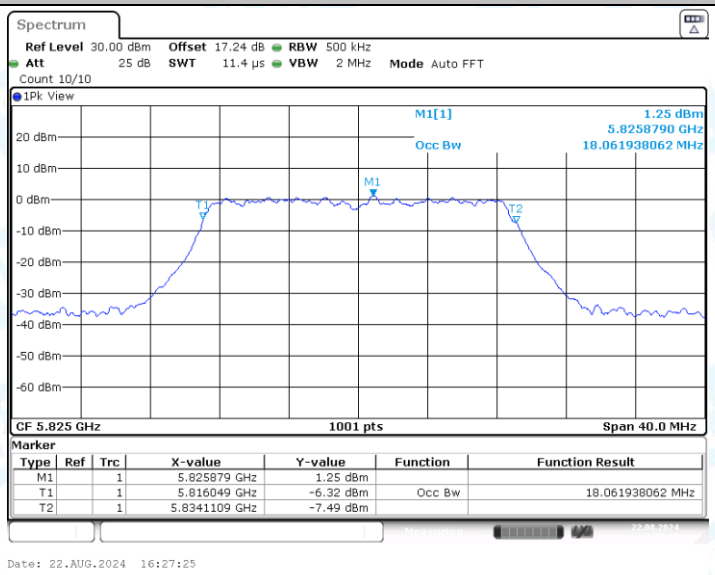

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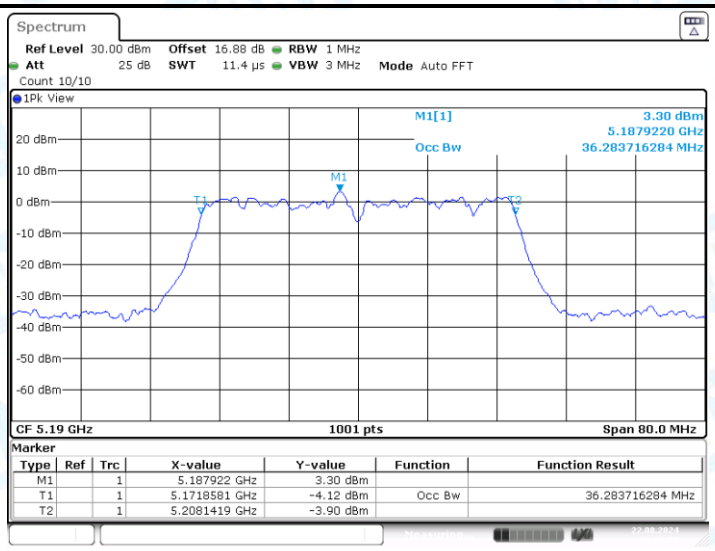

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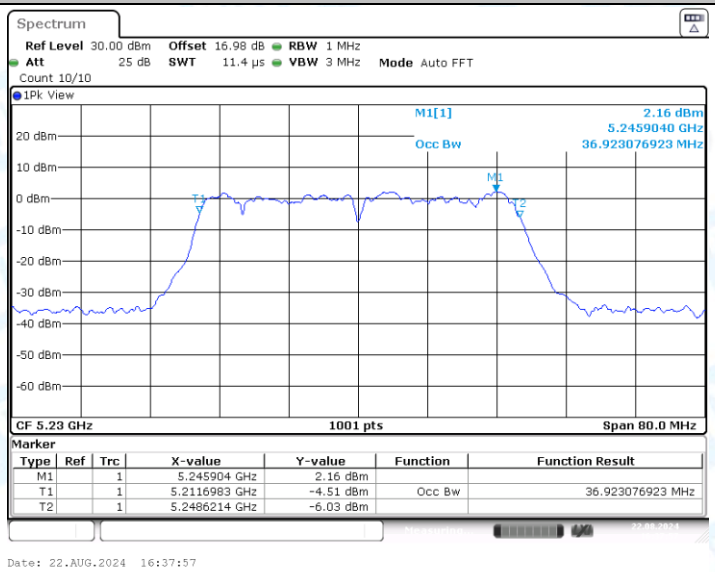

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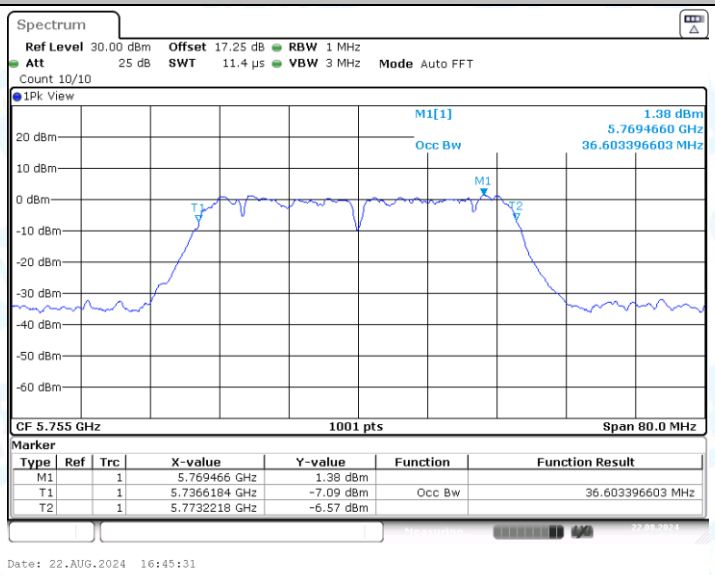

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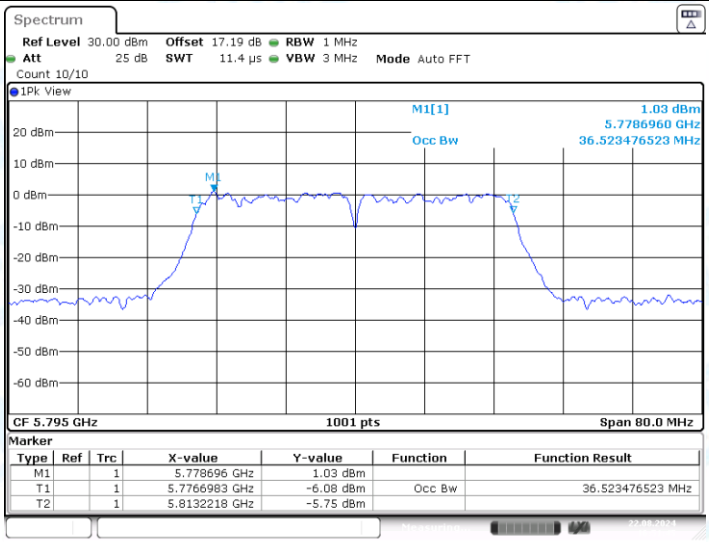

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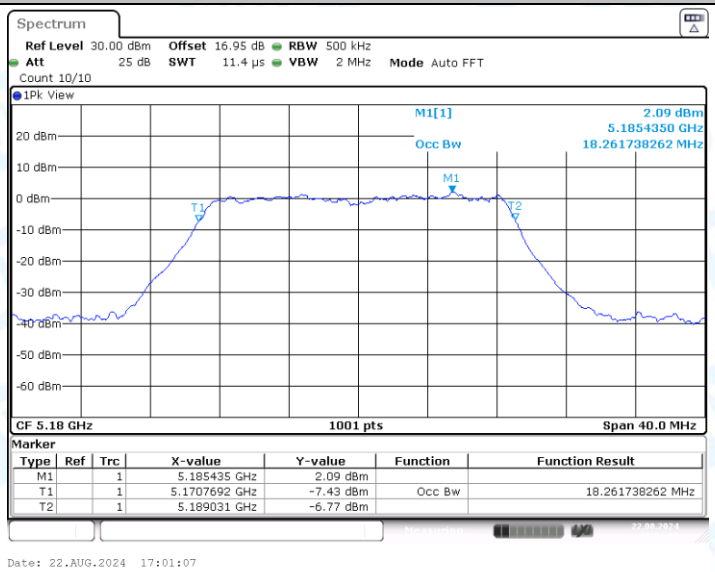

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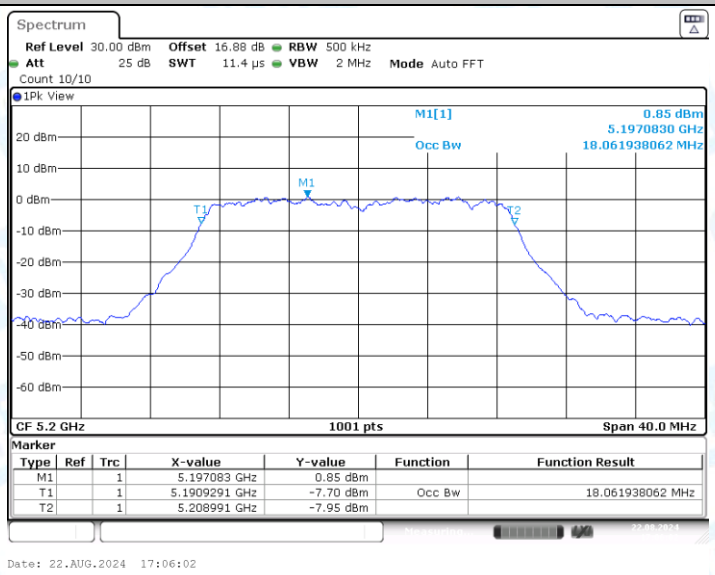

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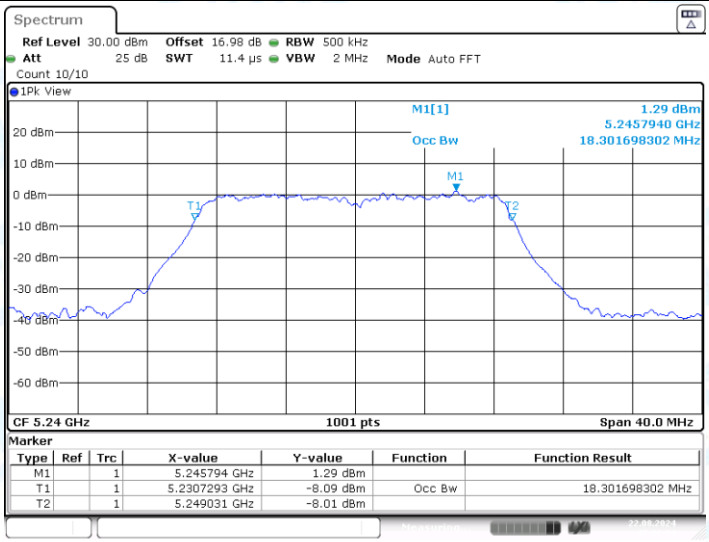

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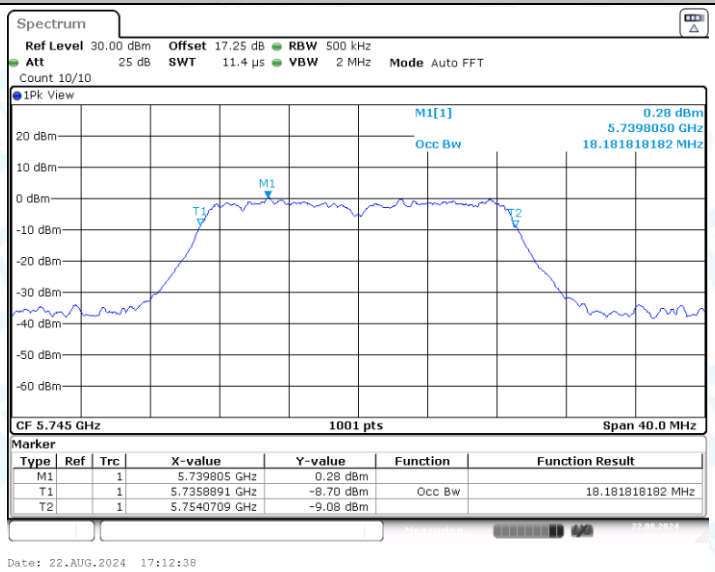

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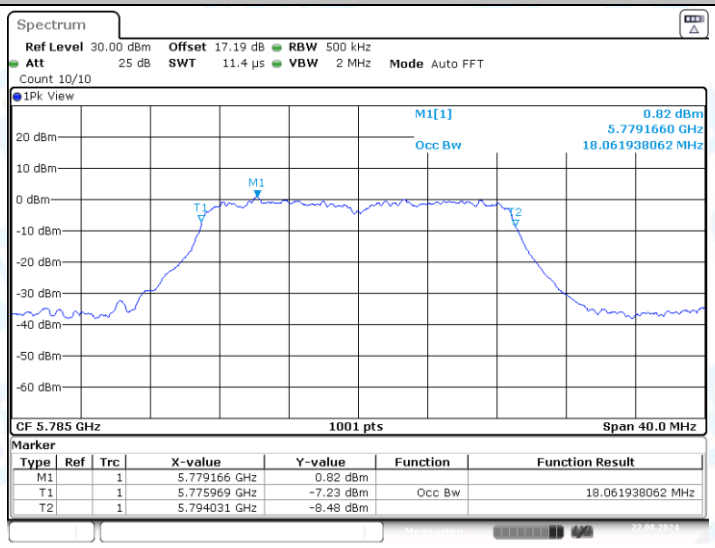

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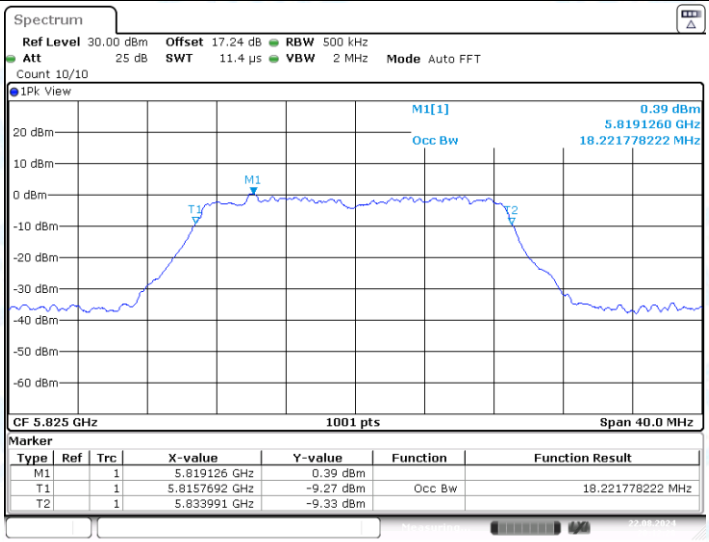

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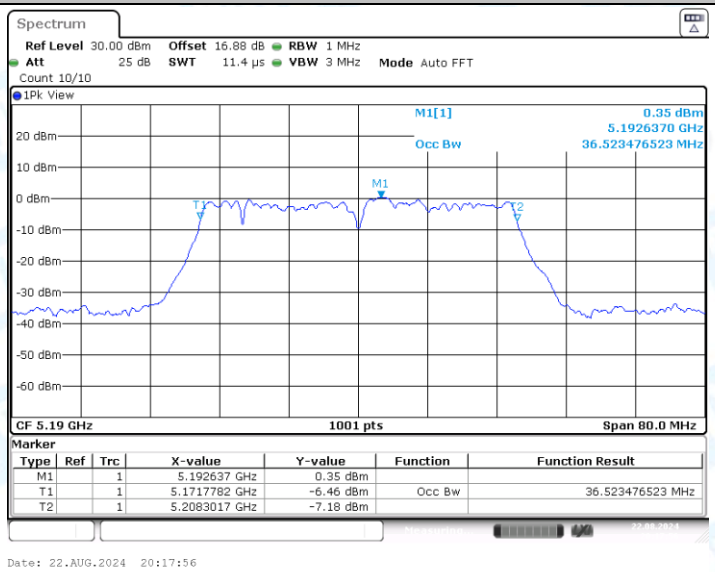

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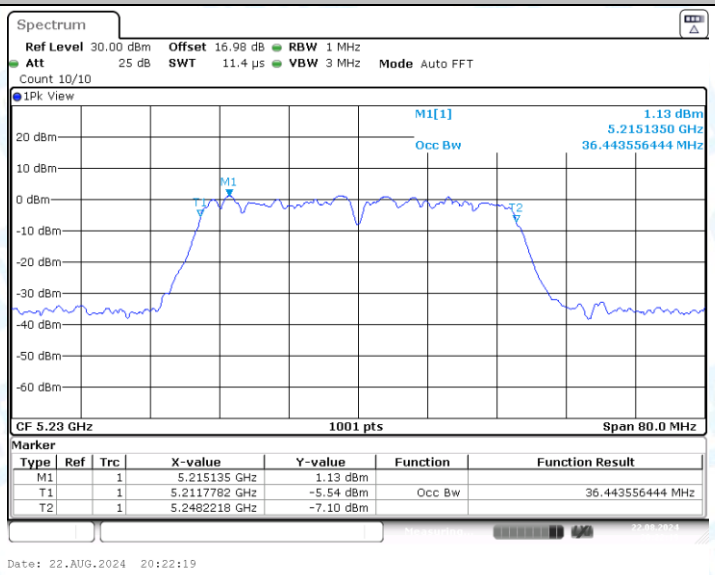

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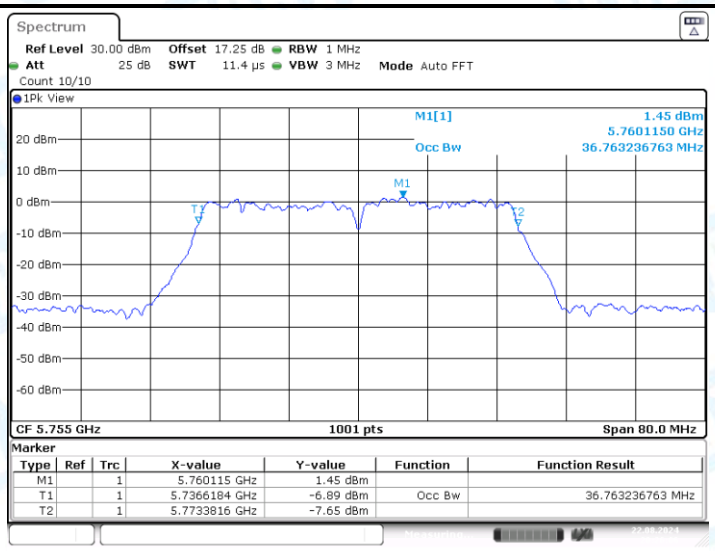

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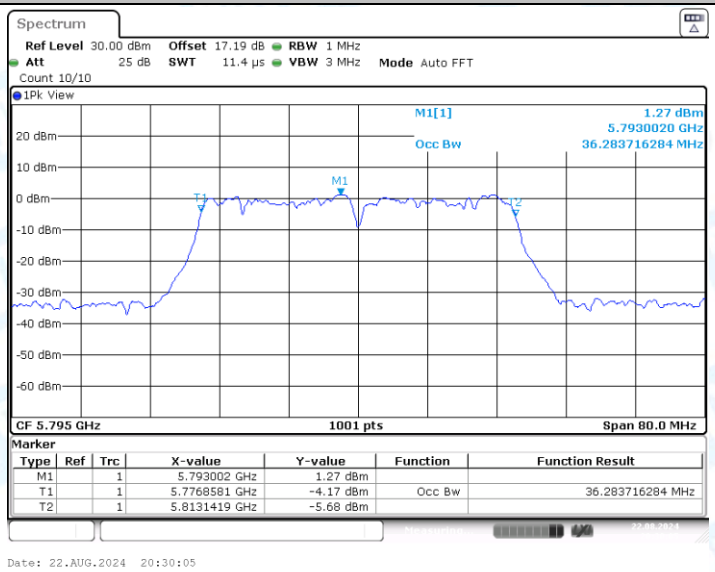

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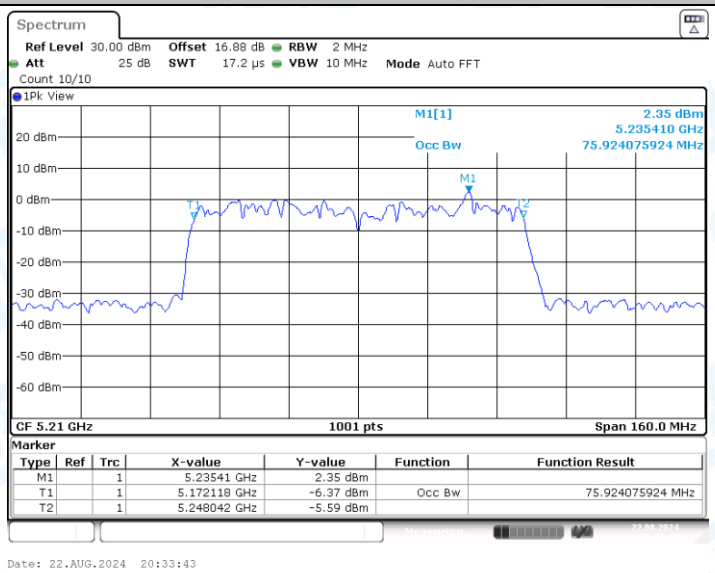
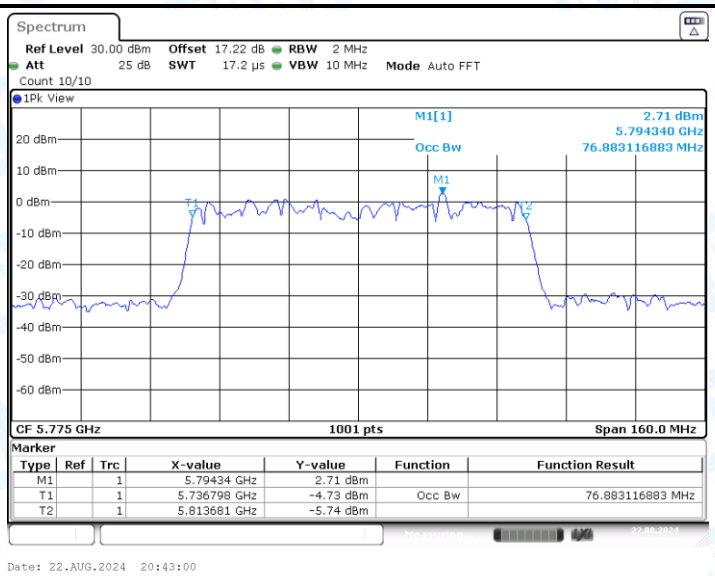


11AC80SISO_Ant1_5210



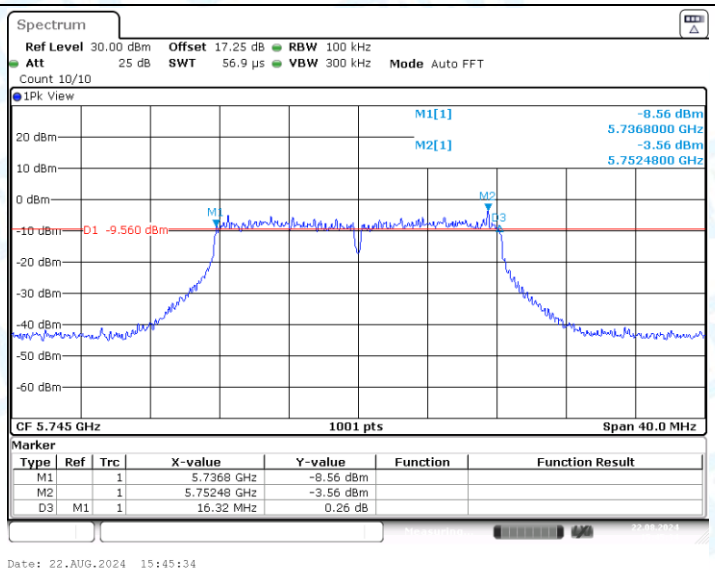
11AC80SISO_Ant1_5775

3. Min emission bandwidth

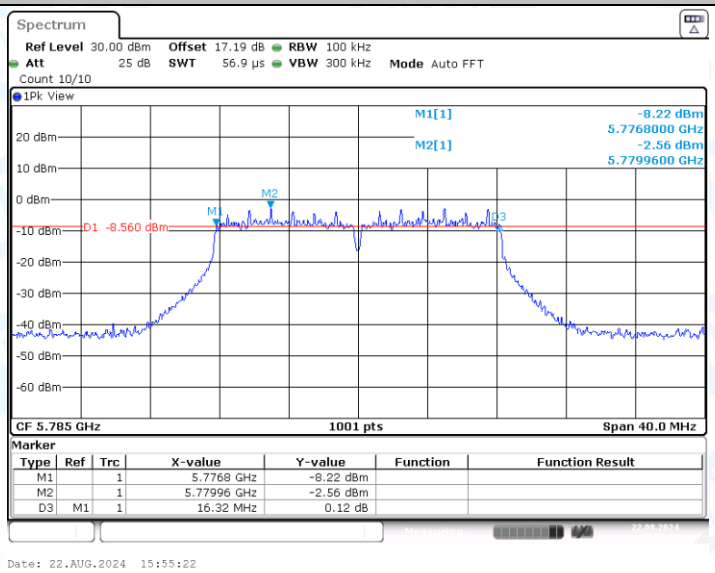
3.1.Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.32	5736.80	5753.12	0.5	PASS
		5785	16.32	5776.80	5793.12	0.5	PASS
		5825	16.32	5816.80	5833.12	0.5	PASS
11N20SISO	Ant1	5745	17.16	5736.56	5753.72	0.5	PASS
		5785	17.60	5776.16	5793.76	0.5	PASS
		5825	17.60	5816.16	5833.76	0.5	PASS
11N40SISO	Ant1	5755	35.44	5737.40	5772.84	0.5	PASS
		5795	36.40	5776.76	5813.16	0.5	PASS
11AC20SISO	Ant1	5745	17.52	5736.20	5753.72	0.5	PASS
		5785	17.56	5776.20	5793.76	0.5	PASS
		5825	17.56	5816.20	5833.76	0.5	PASS
11AC40SISO	Ant1	5755	36.40	5736.76	5773.16	0.5	PASS
		5795	35.84	5777.08	5812.92	0.5	PASS
11AC80SISO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS

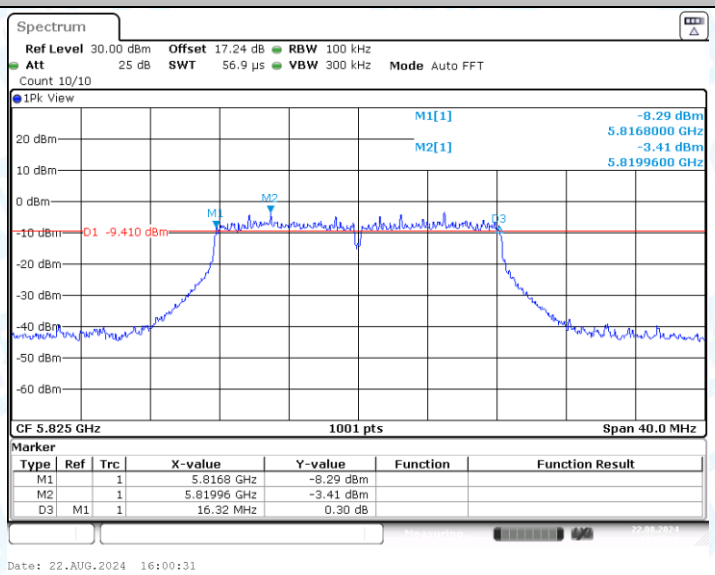
3.2.Test Graphs



11A_Ant1_5745



11A_Ant1_5785



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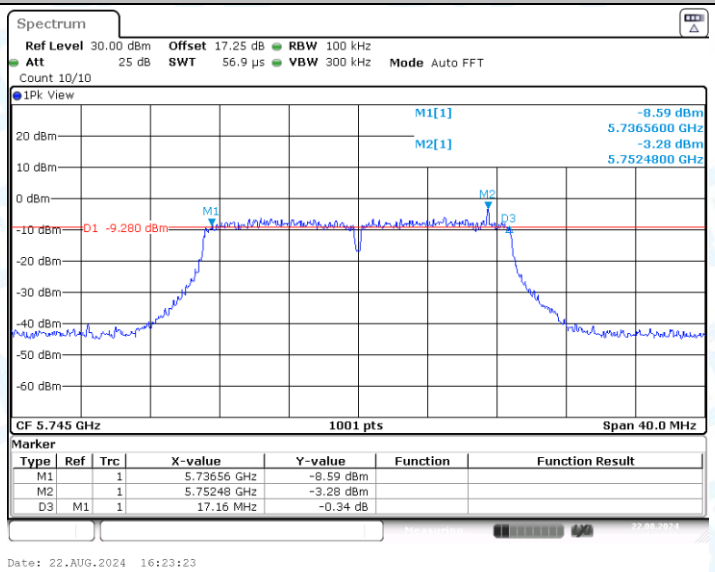

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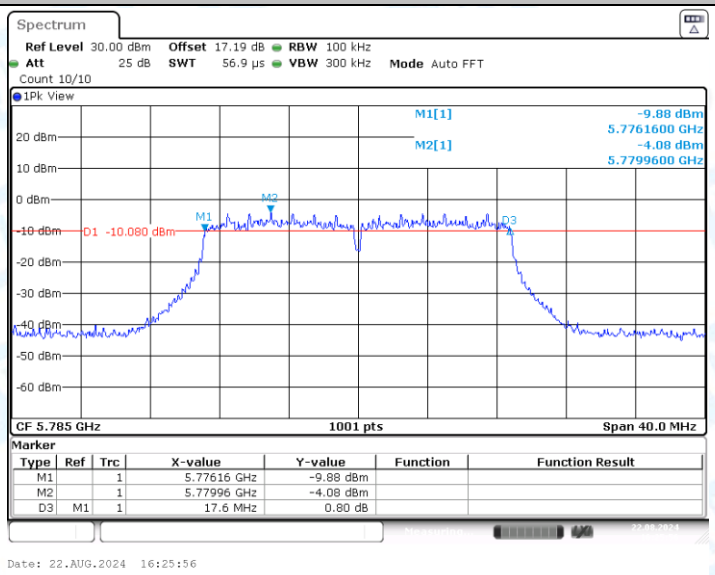

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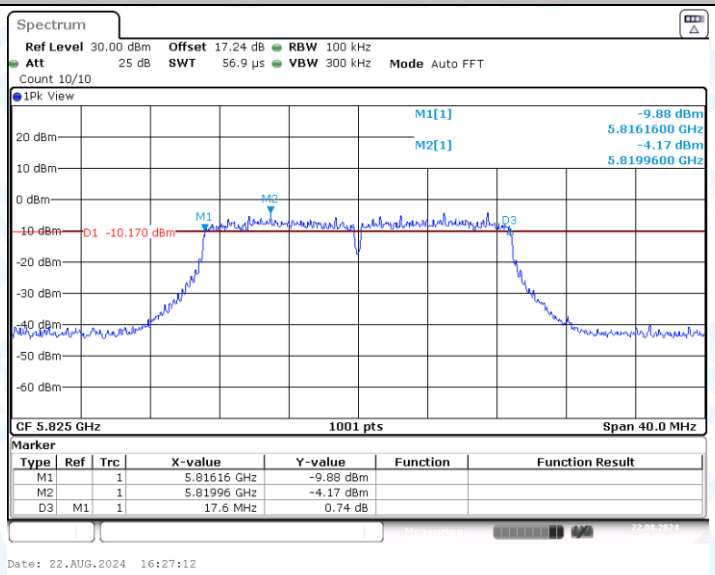

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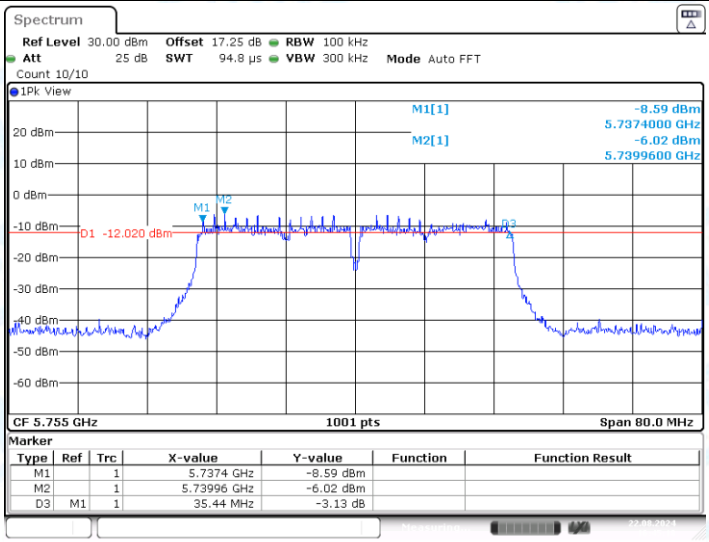

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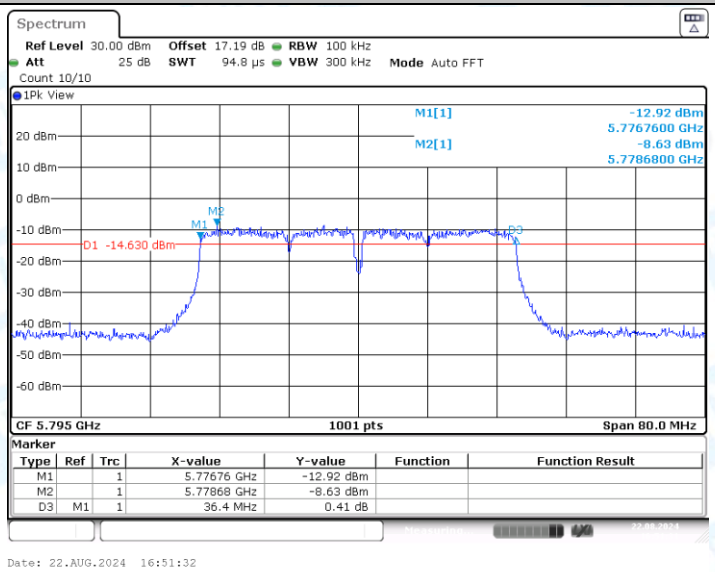

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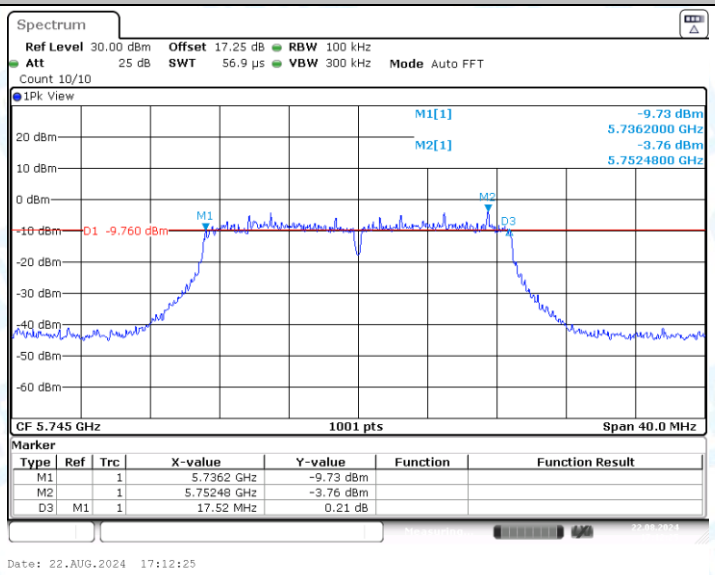

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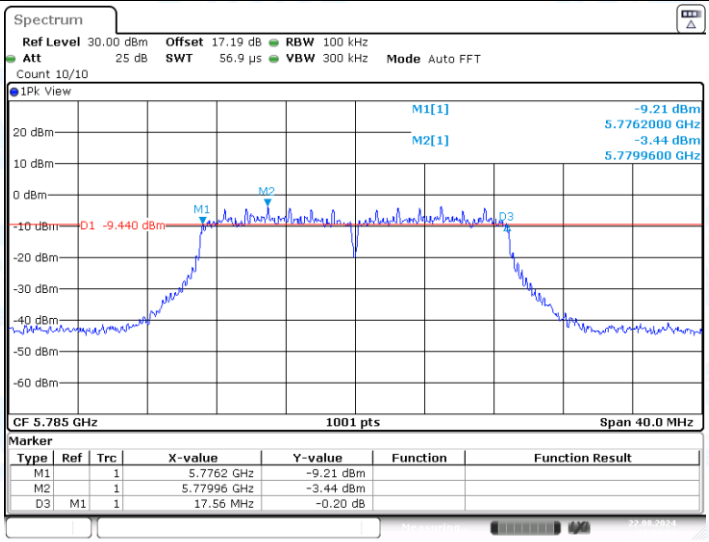

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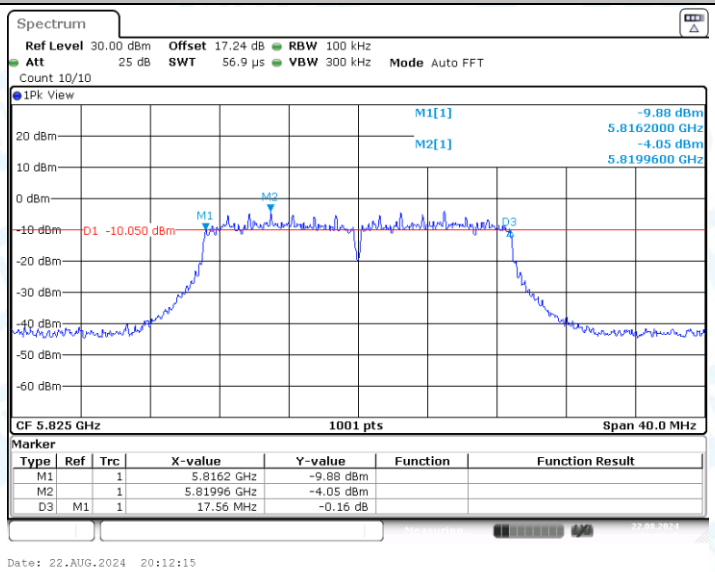

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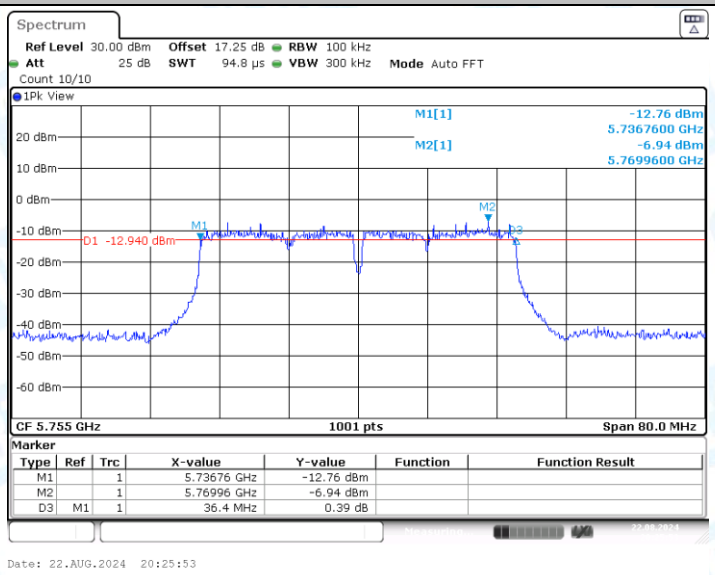

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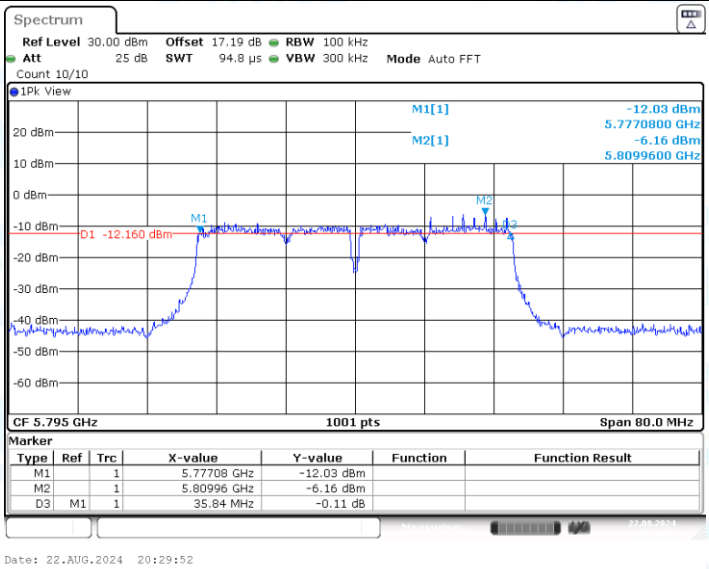

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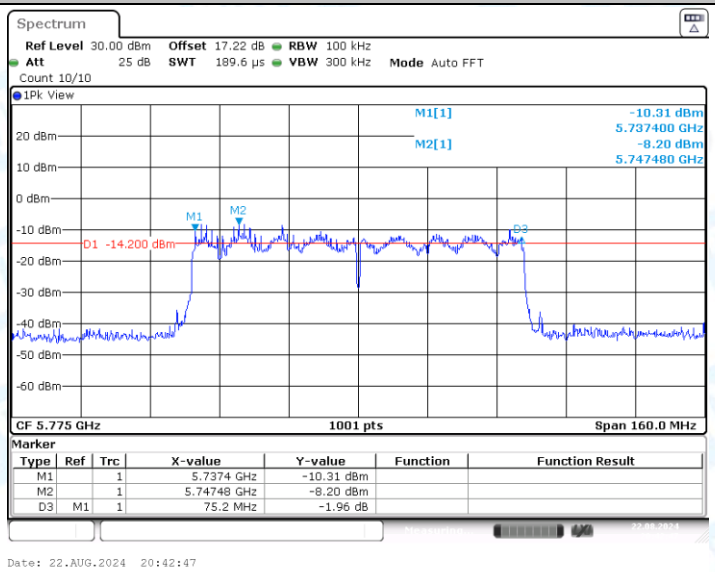


11AC80SISO_Ant1_5775

4. Maximum conducted output power

4.1.Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	7.51	≤23.98	PASS
		5200	7.07	≤23.98	PASS
		5240	7.43	≤23.98	PASS
		5745	6.01	≤30.00	PASS
		5785	6.32	≤30.00	PASS
		5825	6.41	≤30.00	PASS
11N20SISO	Ant1	5180	7.35	≤23.98	PASS
		5200	7.46	≤23.98	PASS
		5240	7.41	≤23.98	PASS
		5745	6.92	≤30.00	PASS
		5785	6.45	≤30.00	PASS
		5825	6.51	≤30.00	PASS
11N40SISO	Ant1	5190	7.67	≤23.98	PASS
		5230	6.92	≤23.98	PASS
		5755	6.30	≤30.00	PASS
		5795	6.55	≤30.00	PASS
11AC20SISO	Ant1	5180	7.17	≤23.98	PASS
		5200	7.34	≤23.98	PASS
		5240	7.52	≤23.98	PASS
		5745	6.03	≤30.00	PASS
		5785	6.86	≤30.00	PASS
		5825	6.46	≤30.00	PASS
11AC40SISO	Ant1	5190	7.21	≤23.98	PASS
		5230	7.09	≤23.98	PASS
		5755	6.21	≤30.00	PASS
		5795	6.40	≤30.00	PASS
11AC80SISO	Ant1	5210	6.82	≤23.98	PASS
		5775	6.88	≤30.00	PASS

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

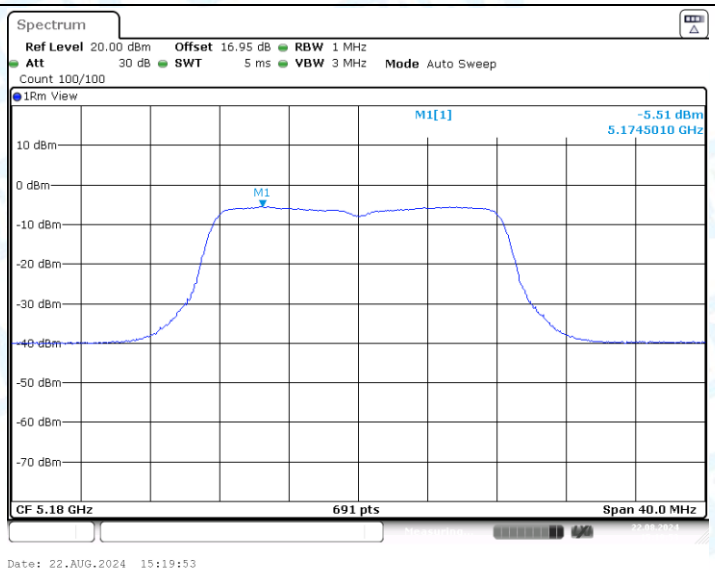
5. Maximum power spectral density

5.1.Test Result

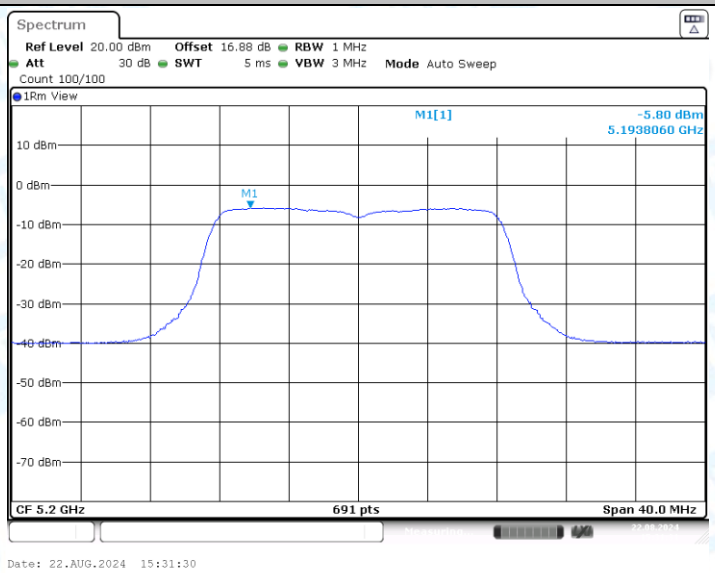
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-3.12	≤11.00	PASS
		5200	-3.41	≤11.00	PASS
		5240	-2.96	≤11.00	PASS
		5745	-6.13	≤30.00	PASS
		5785	-6.04	≤30.00	PASS
		5825	-6.03	≤30.00	PASS
11N20SISO	Ant1	5180	-3.40	≤11.00	PASS
		5200	-3.33	≤11.00	PASS
		5240	-3.13	≤11.00	PASS
		5745	-6.29	≤30.00	PASS
		5785	-6.28	≤30.00	PASS
		5825	-6.17	≤30.00	PASS
11N40SISO	Ant1	5190	-6.12	≤11.00	PASS
		5230	-6.60	≤11.00	PASS
		5755	-8.81	≤30.00	PASS
		5795	-9.00	≤30.00	PASS
11AC20SISO	Ant1	5180	-3.57	≤11.00	PASS
		5200	-3.44	≤11.00	PASS
		5240	-3.21	≤11.00	PASS
		5745	-6.43	≤30.00	PASS
		5785	-6.94	≤30.00	PASS
		5825	-7.28	≤30.00	PASS
11AC40SISO	Ant1	5190	-6.01	≤11.00	PASS
		5230	-6.64	≤11.00	PASS
		5755	-9.21	≤30.00	PASS
		5795	-9.36	≤30.00	PASS
11AC80SISO	Ant1	5210	-9.15	≤11.00	PASS
		5775	-10.03	≤30.00	PASS

Note：1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

5.2.Test Graphs



11A_Ant1_5180



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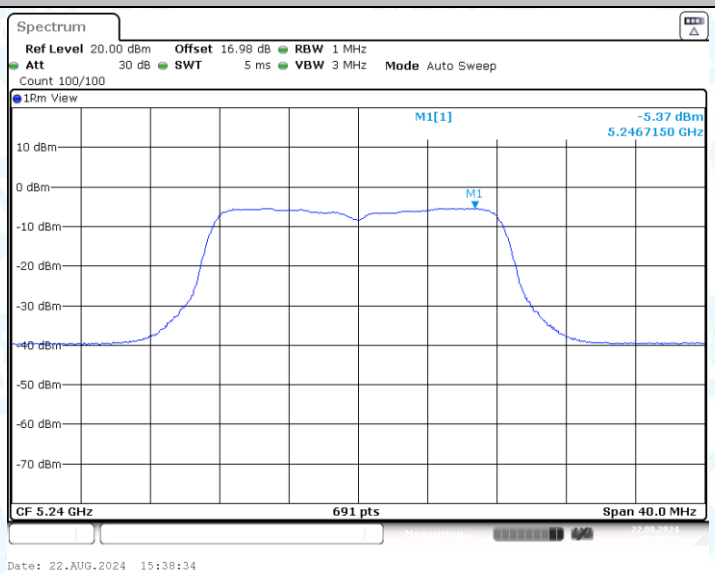

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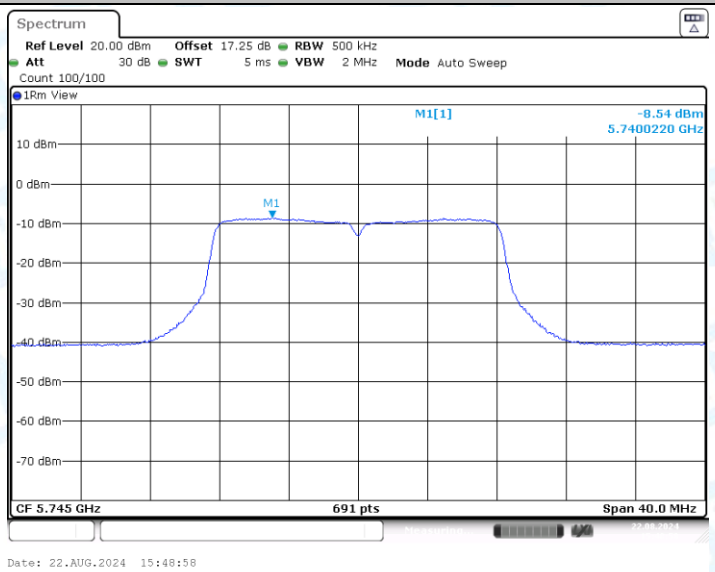

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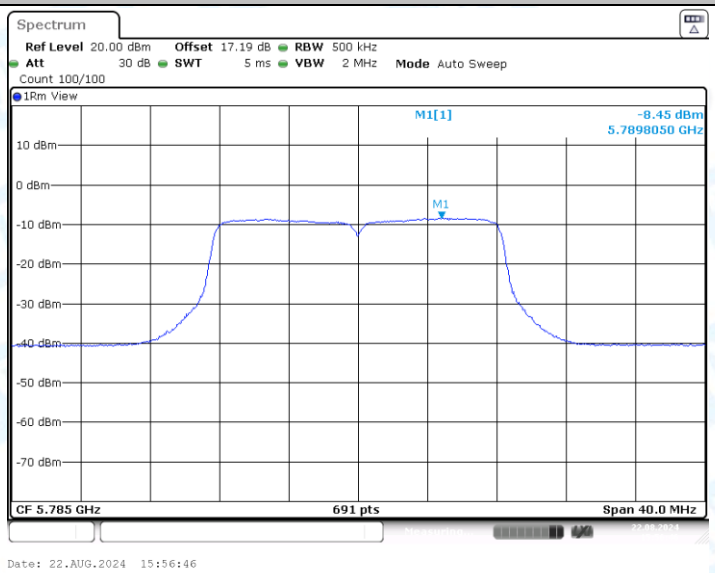

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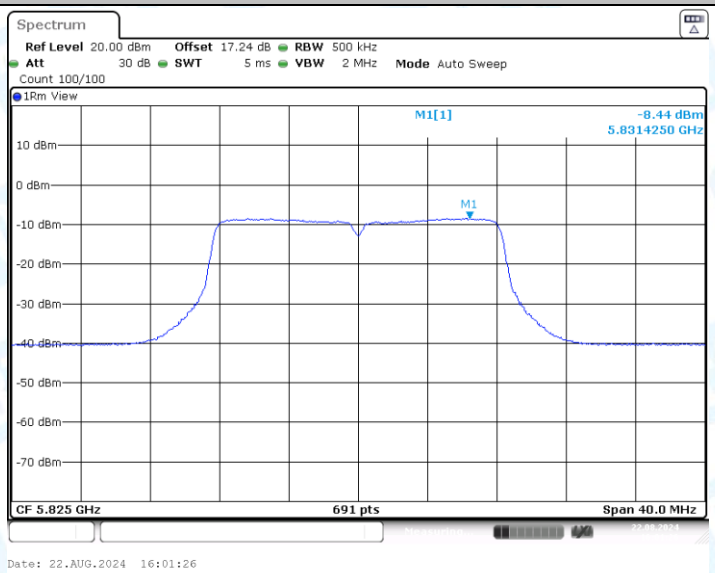

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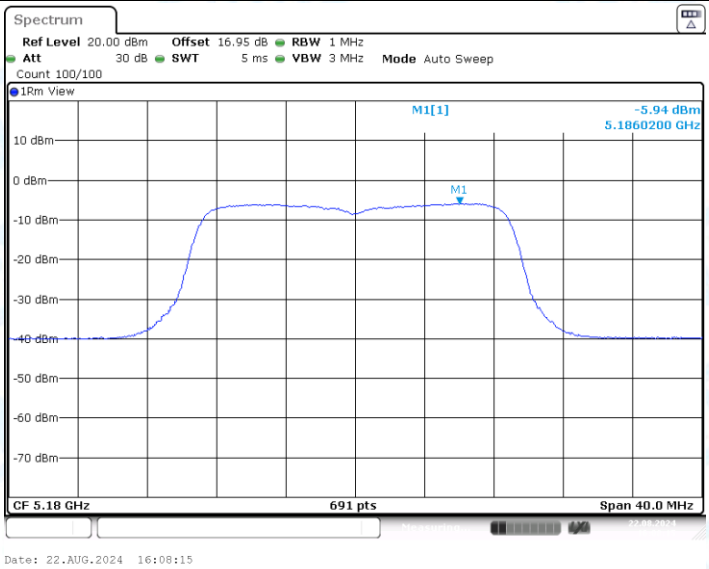

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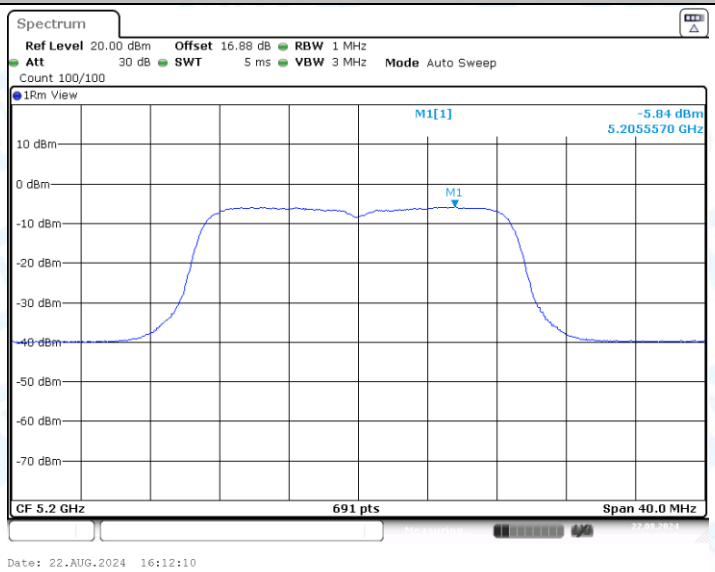

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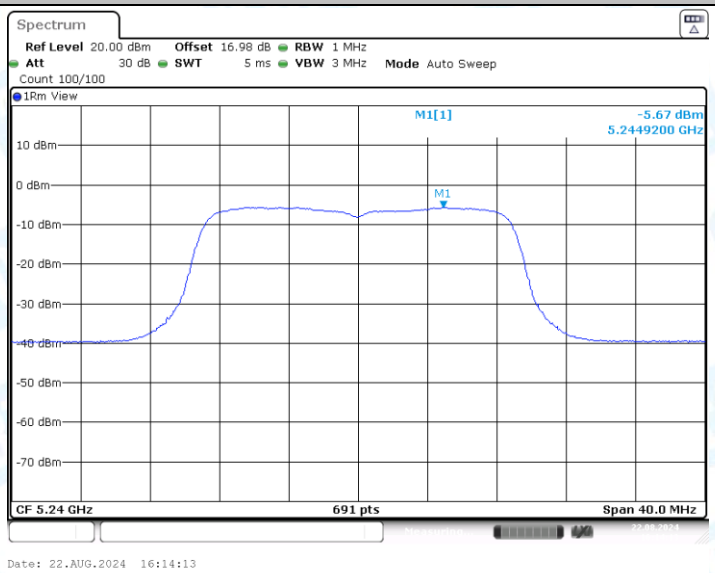

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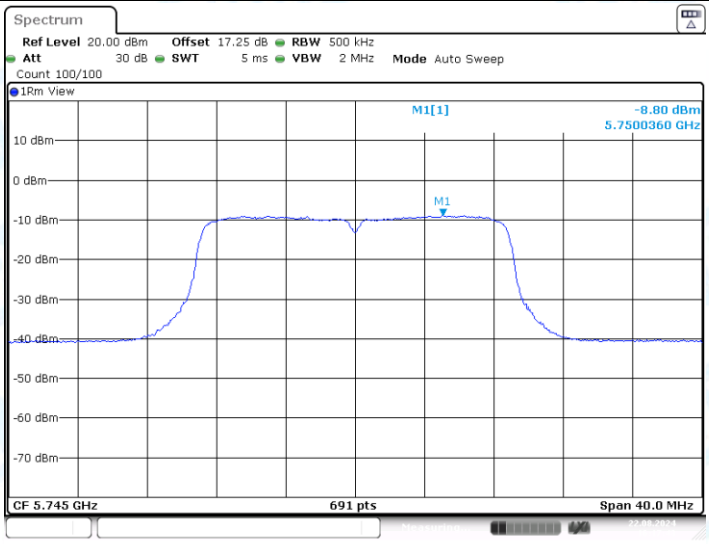

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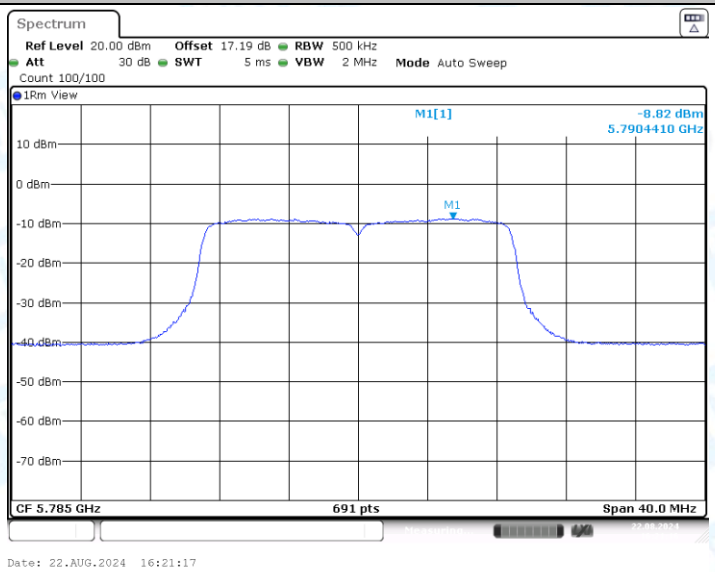

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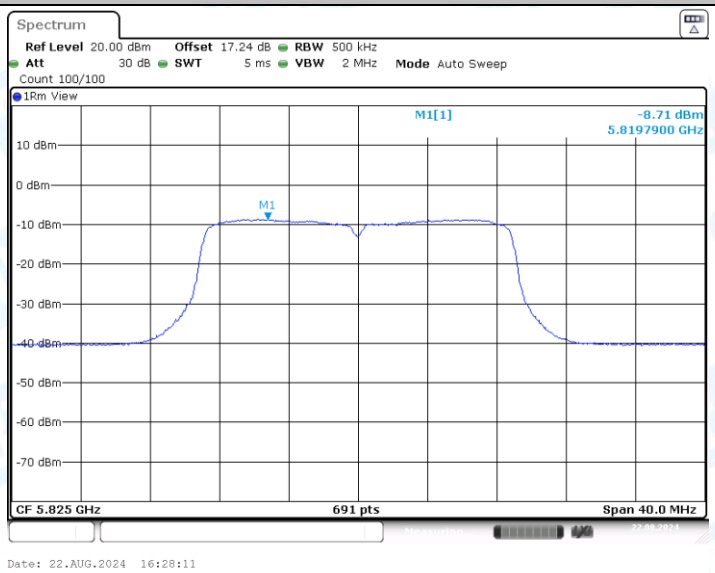

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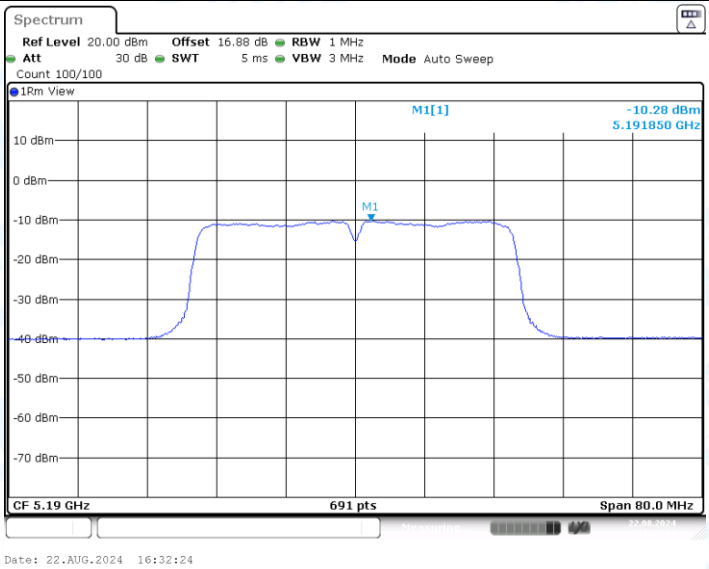

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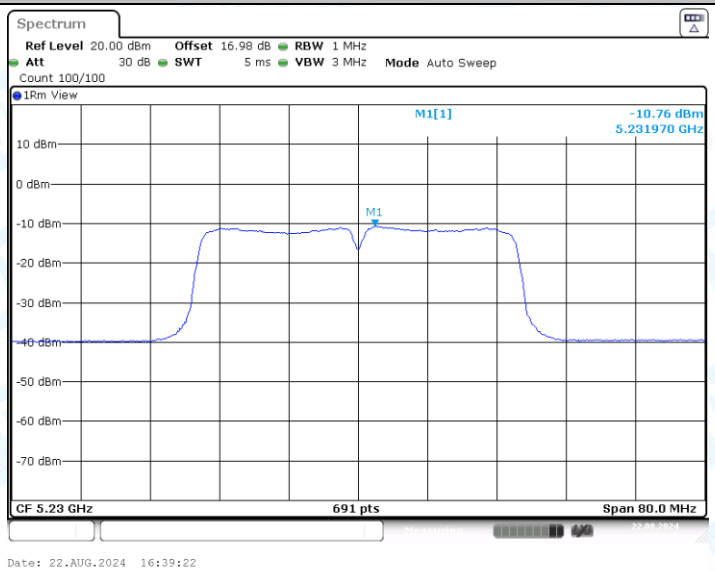

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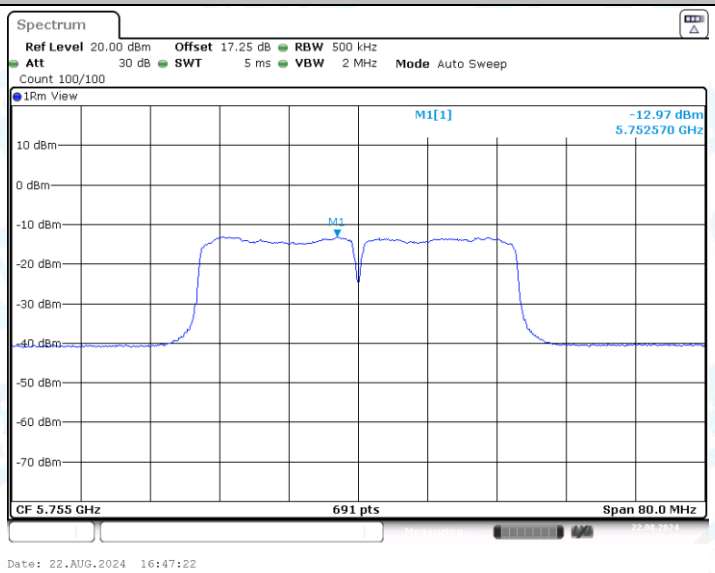

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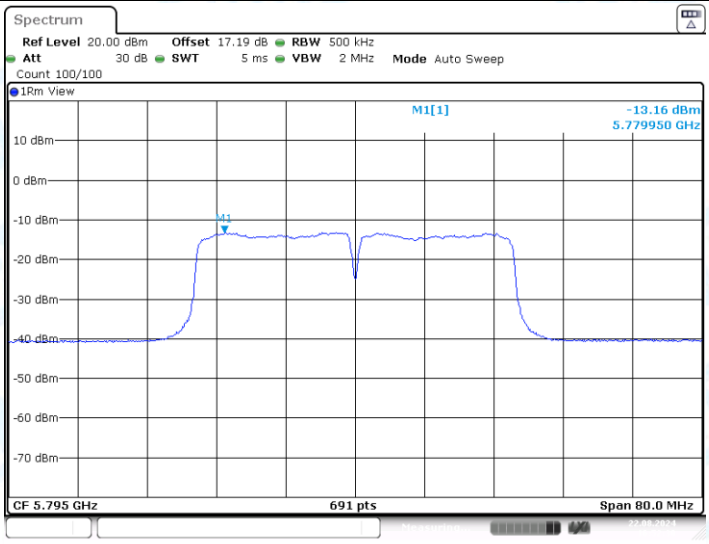

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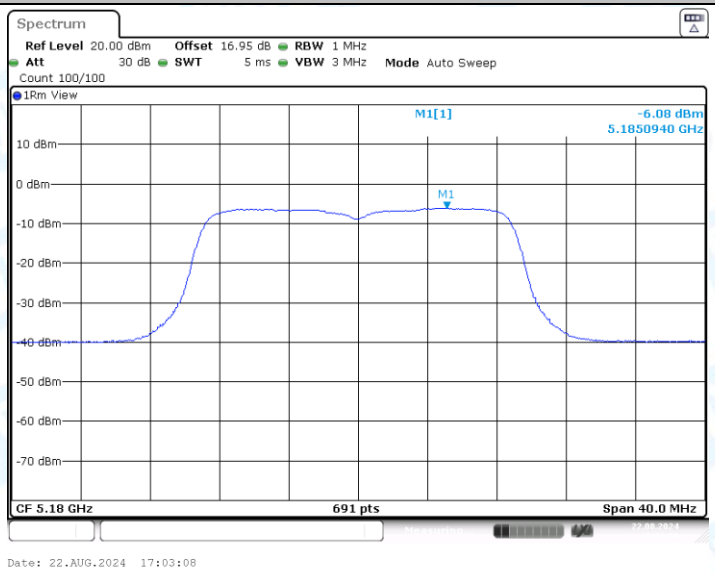

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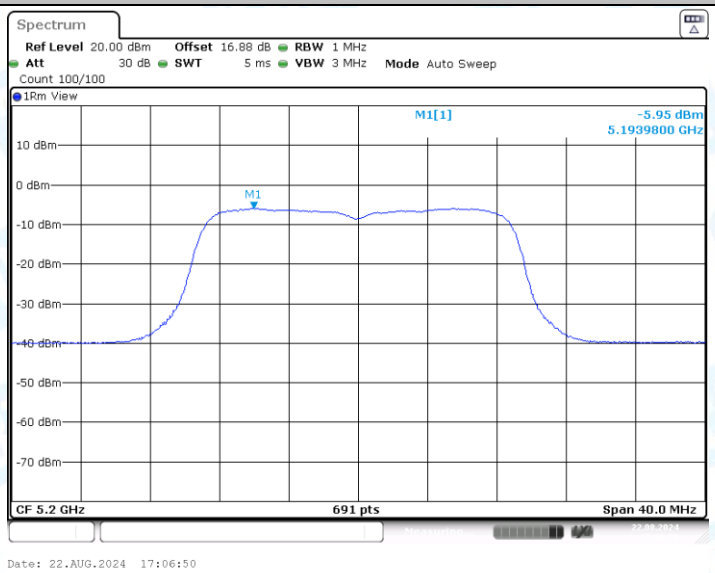

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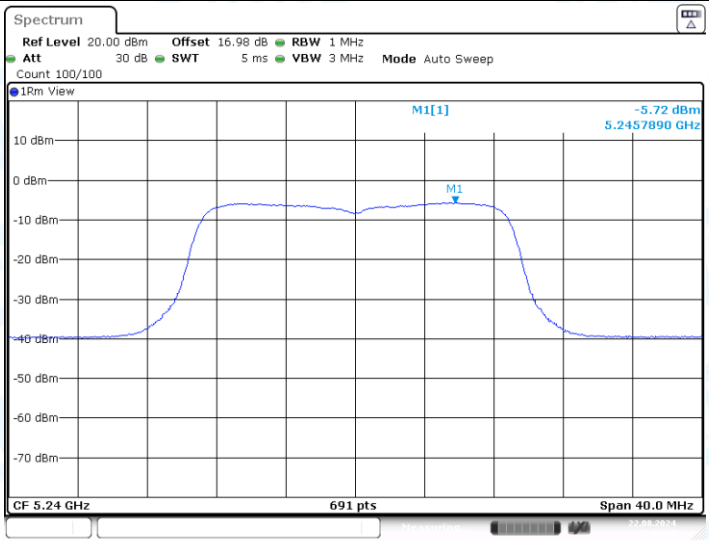

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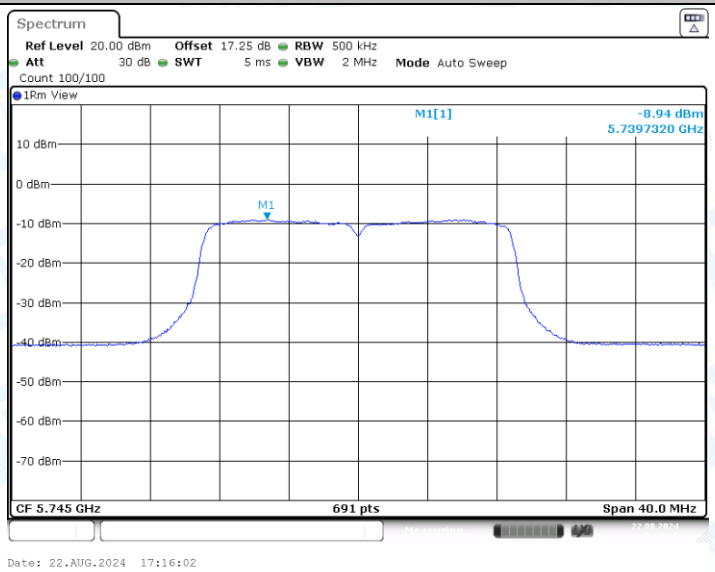

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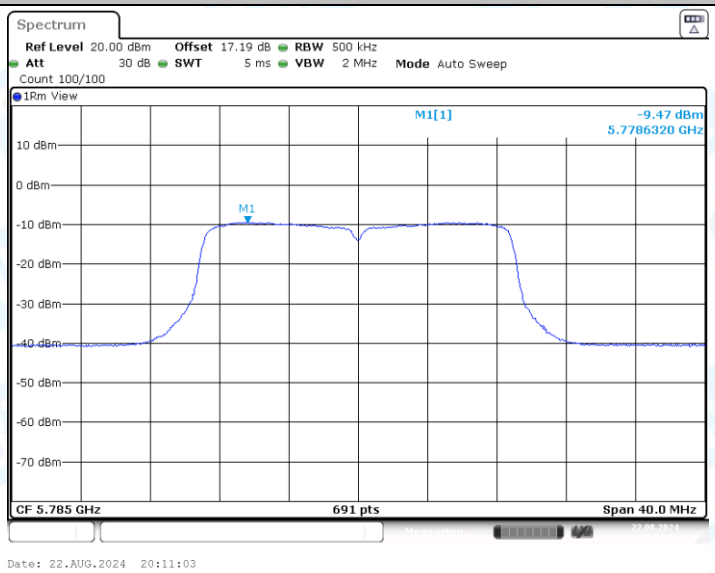

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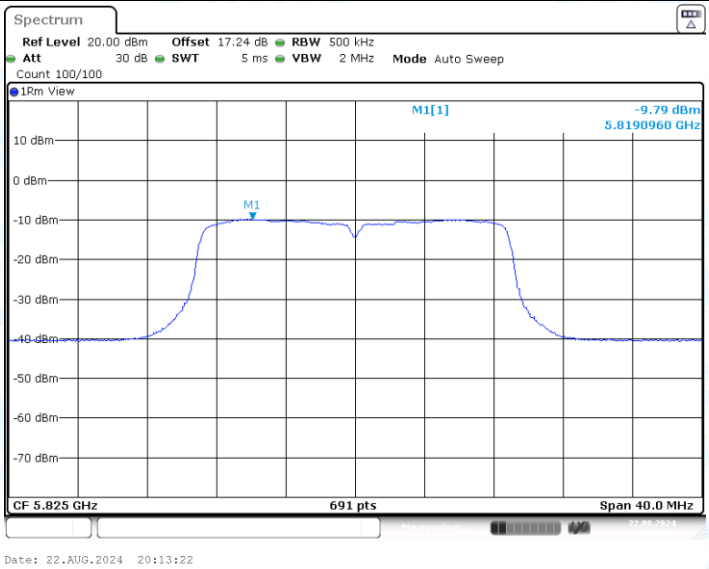

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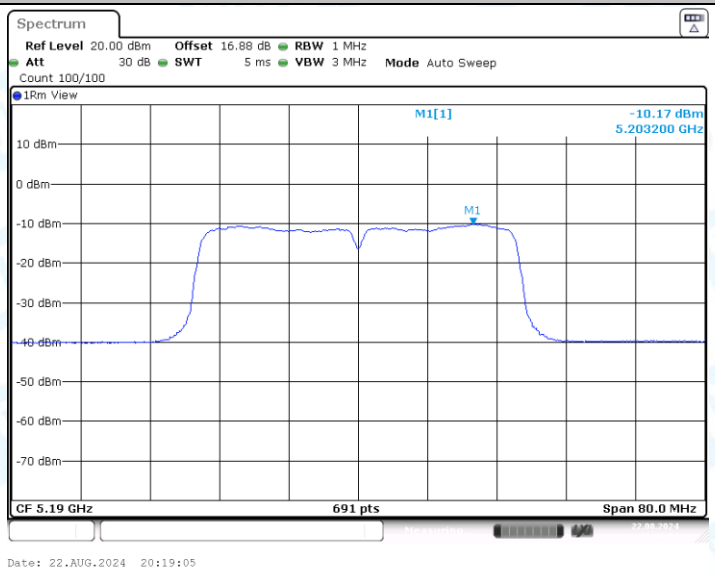

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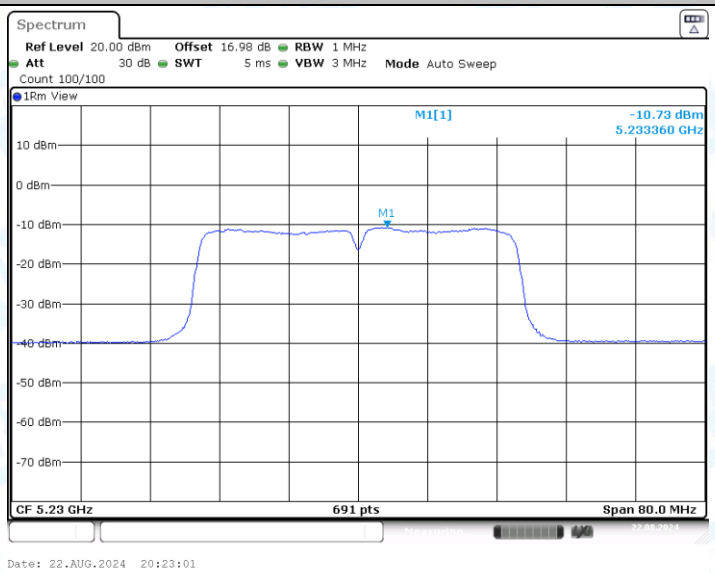

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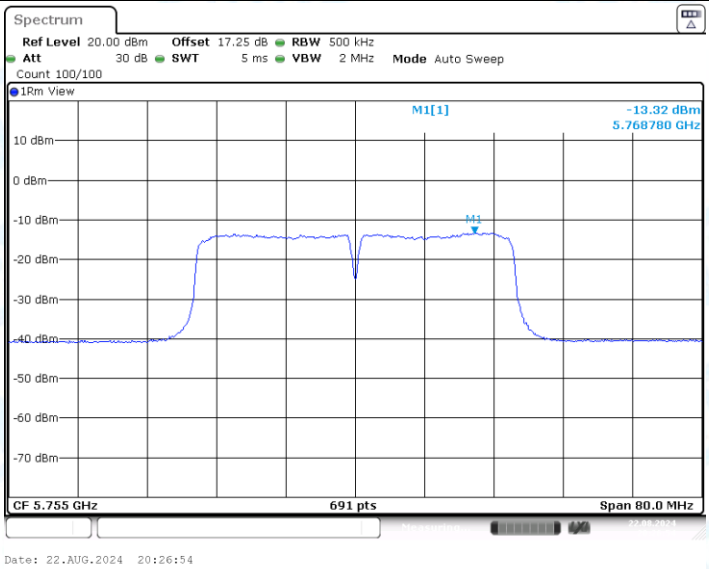

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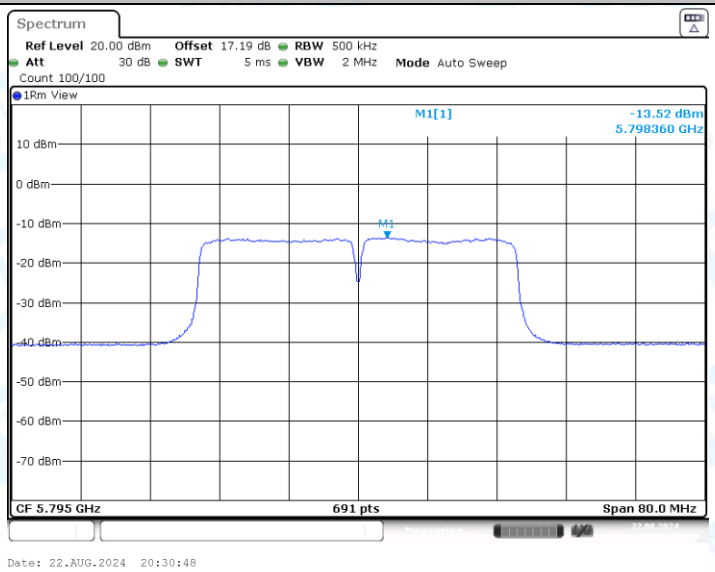

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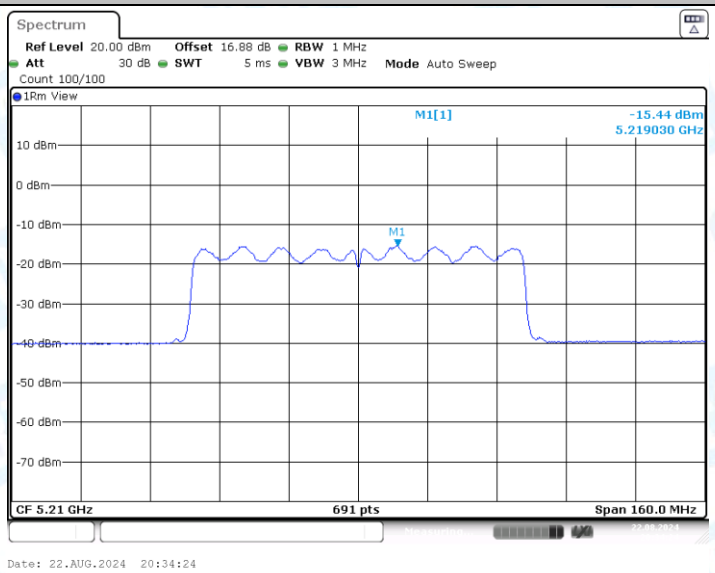

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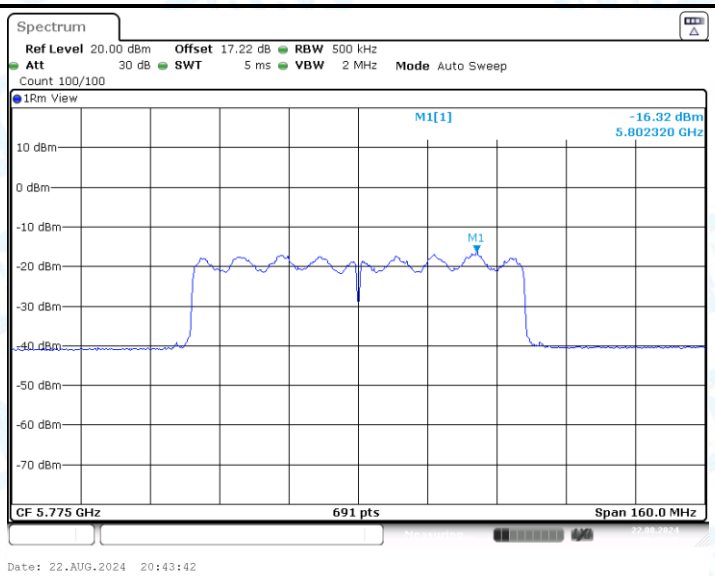

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