

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

General Description of EUT	
Product Name:	Smart Projector
Test Model:	M01 Pro
Sample ID:	202309-0009-4-2#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 19V
Test Engineer:	Zhou zhen
Note: For a more detailed features description, please refer to the report TBR-C-202309-0009-91	

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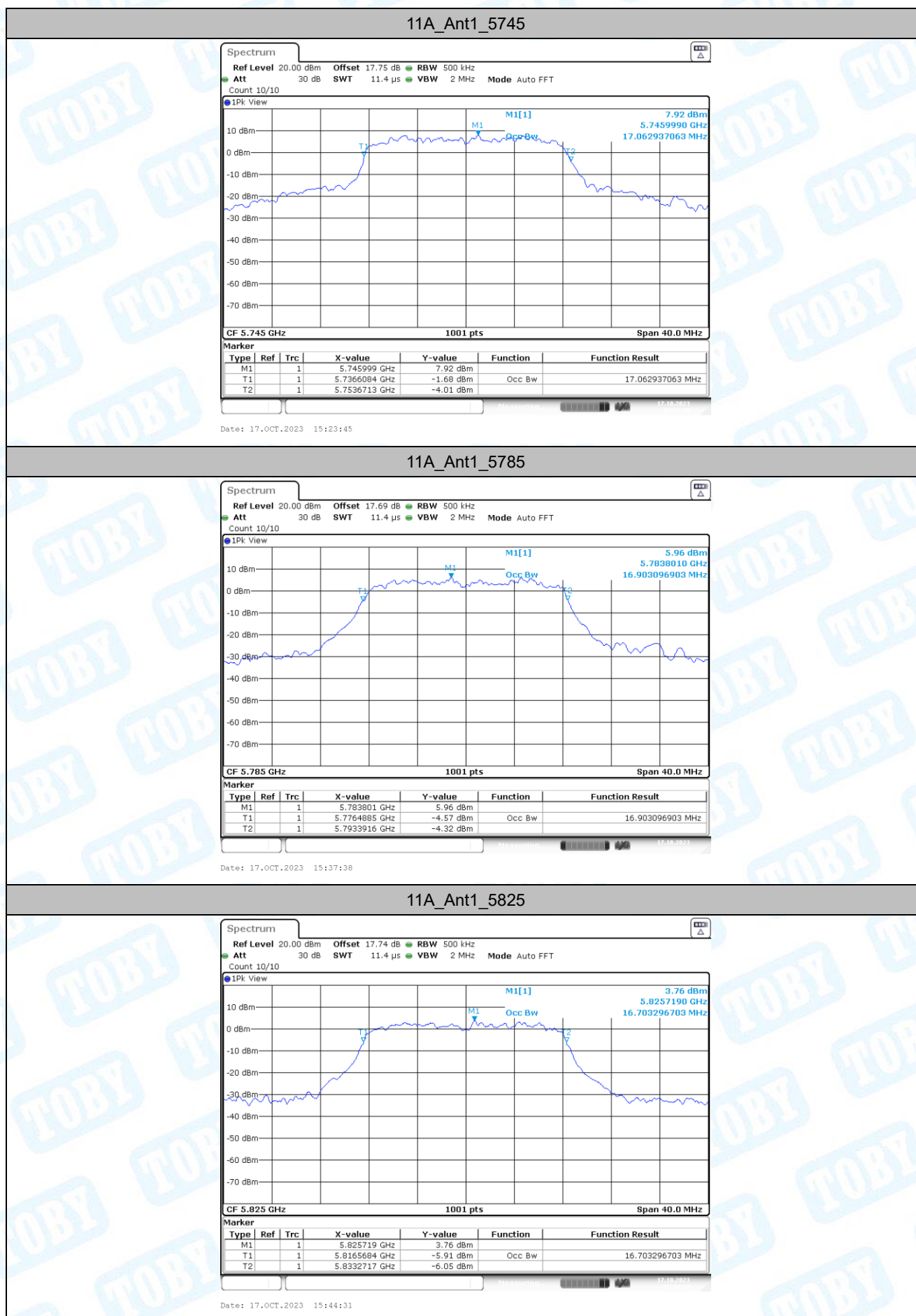
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1. Occupied channel bandwidth

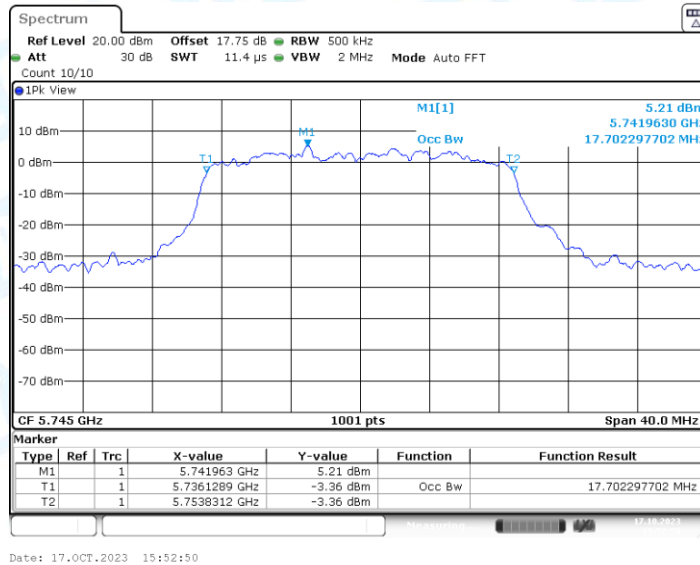
1.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.063	5736.6084	5753.6713	---	---
		5785	16.903	5776.4885	5793.3916	---	---
		5825	16.703	5816.5684	5833.2717	---	---
11N20SISO	Ant1	5745	17.702	5736.1289	5753.8312	---	---
		5785	17.902	5776.0889	5793.9910	---	---
		5825	17.782	5816.0889	5833.8711	---	---
11N40SISO	Ant1	5755	36.364	5736.7782	5773.1419	---	---
		5795	36.364	5776.7782	5813.1419	---	---
11AC20SISO	Ant1	5745	17.742	5736.0889	5753.8312	---	---
		5785	17.702	5776.0889	5793.7912	---	---
		5825	17.702	5816.0090	5833.7113	---	---
11AC40SISO	Ant1	5755	36.523	5736.7782	5773.3017	---	---
		5795	36.364	5776.7782	5813.1419	---	---
11AX20SISO	Ant1	5745	18.781	5735.5694	5754.3506	---	---
		5785	18.821	5775.5694	5794.3906	---	---
		5825	18.901	5815.5295	5834.4306	---	---
11AX40SISO	Ant1	5755	37.802	5735.9790	5773.7812	---	---
		5795	37.802	5775.9790	5813.7812	---	---

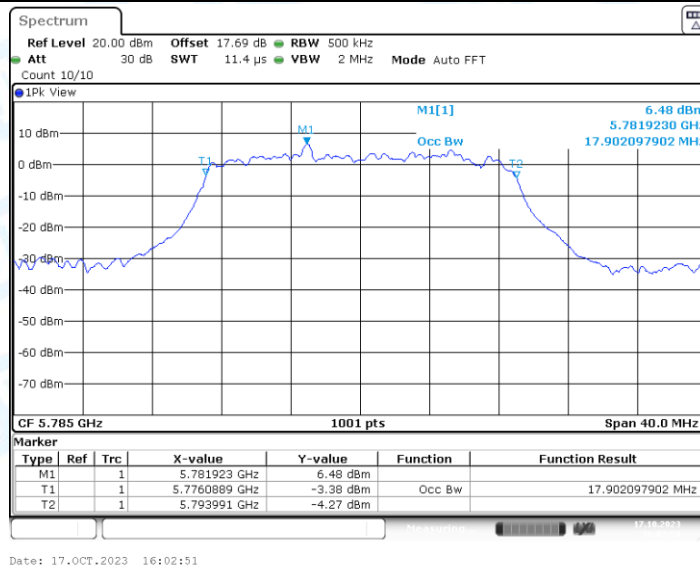
1.2. Test Graphs



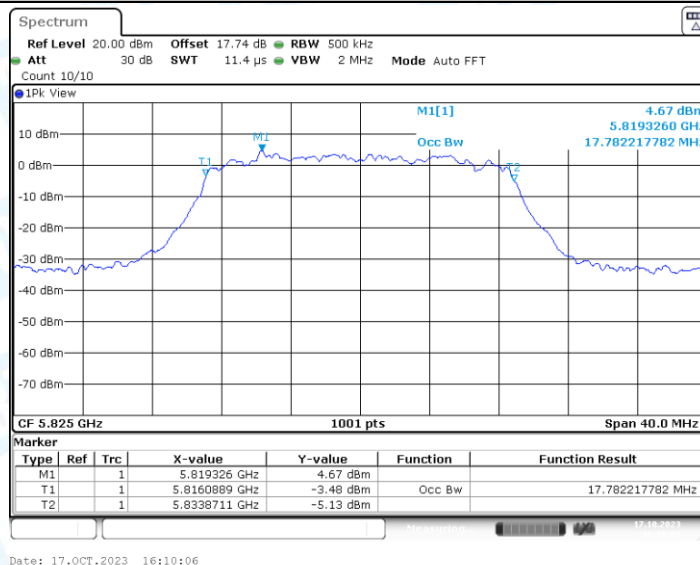
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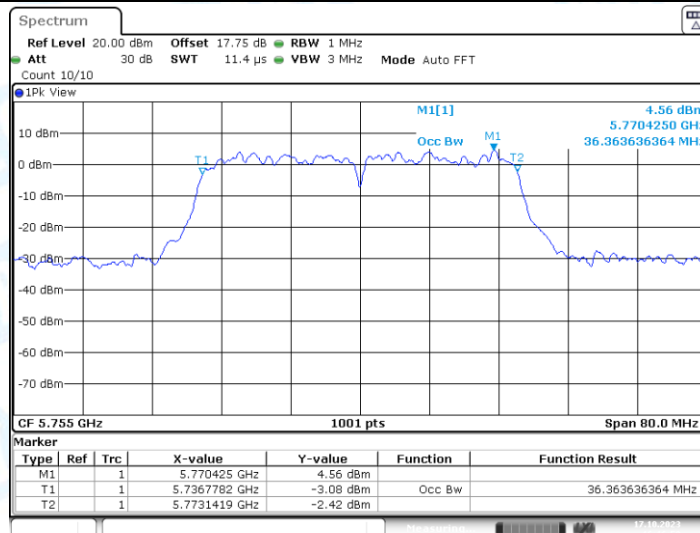
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11N20SISO_Ant1_5825

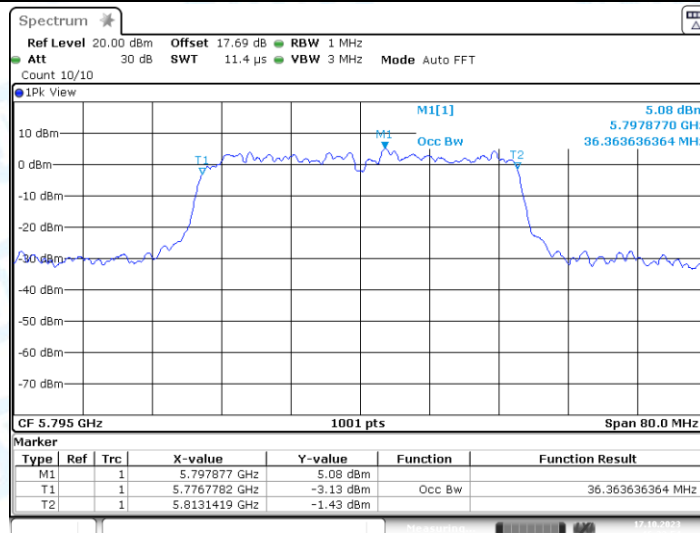


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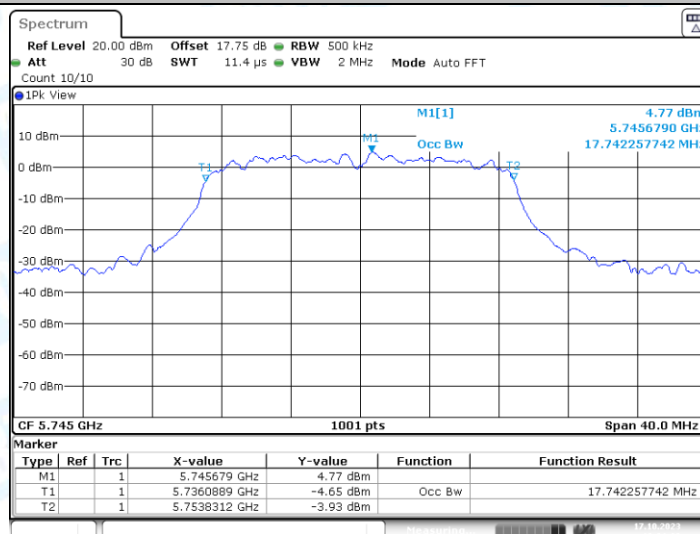
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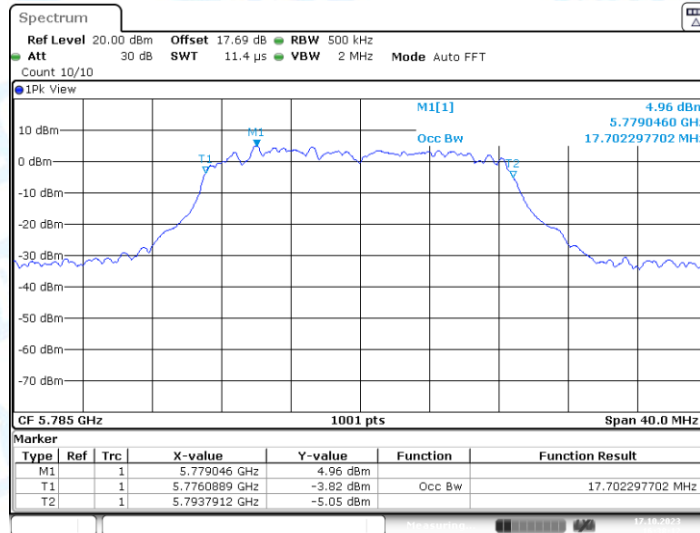
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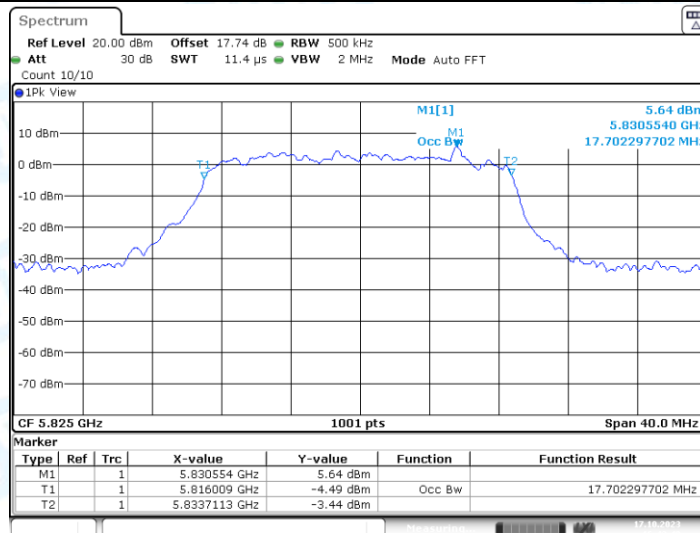
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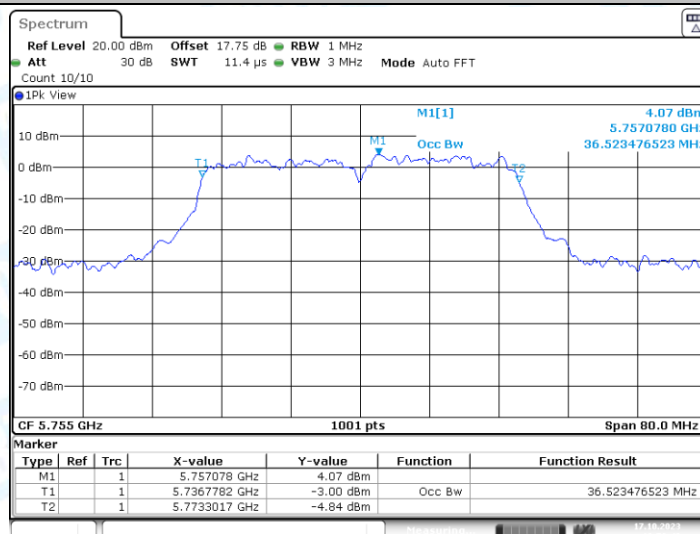
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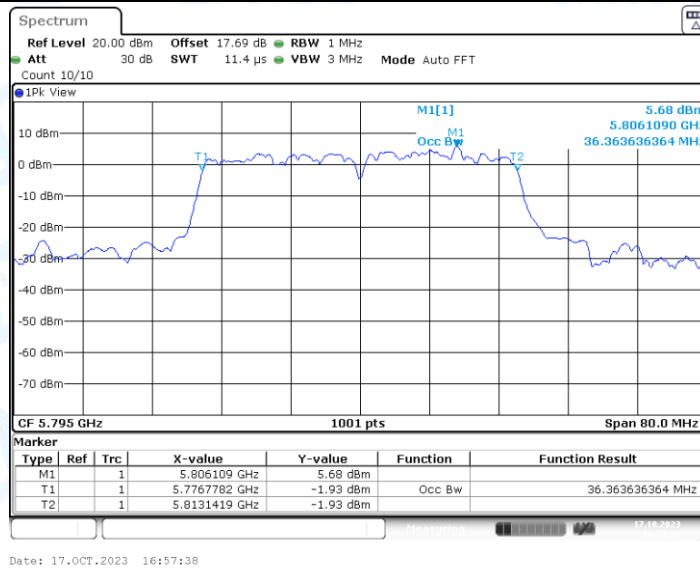
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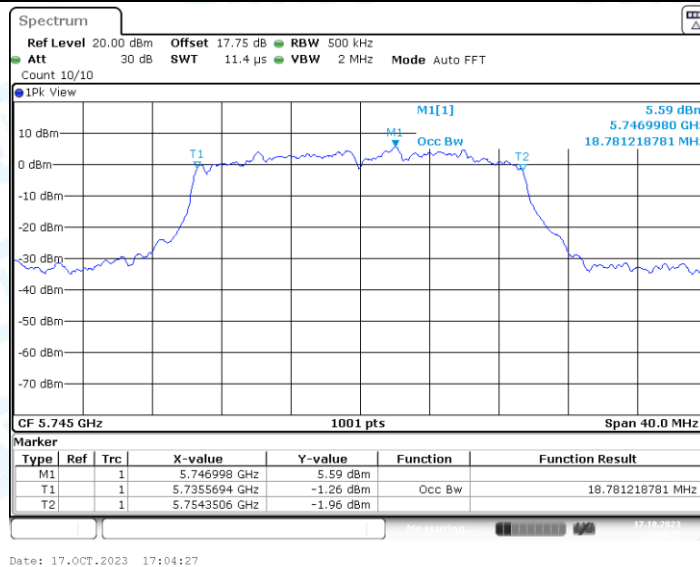


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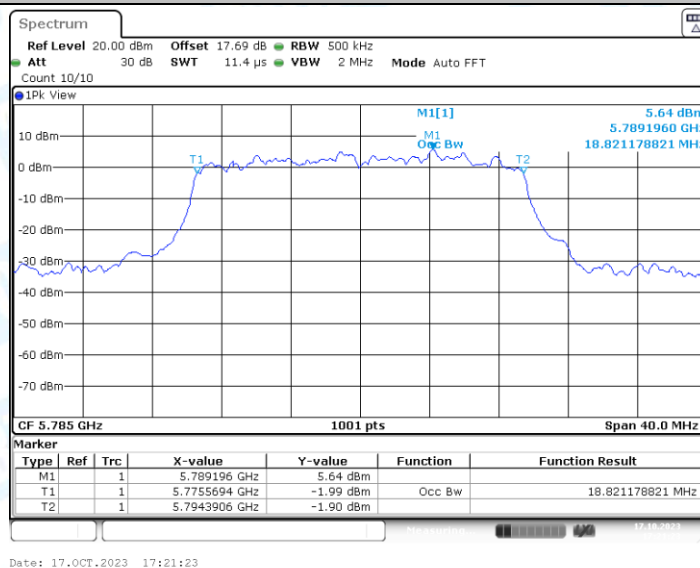
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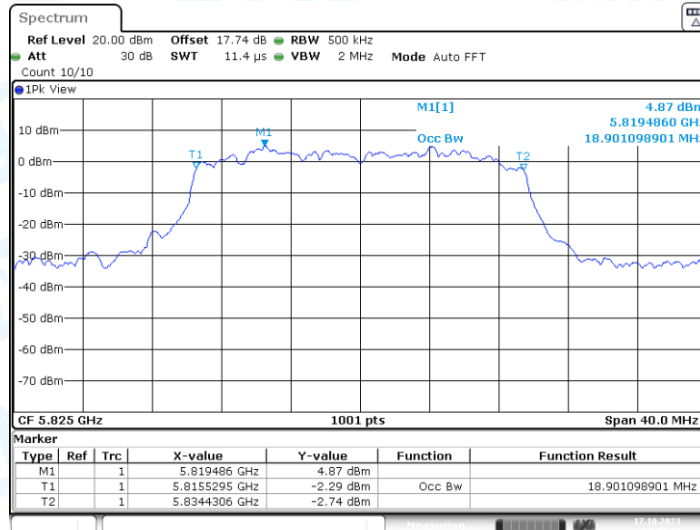
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11AX20SISO_Ant1_5785

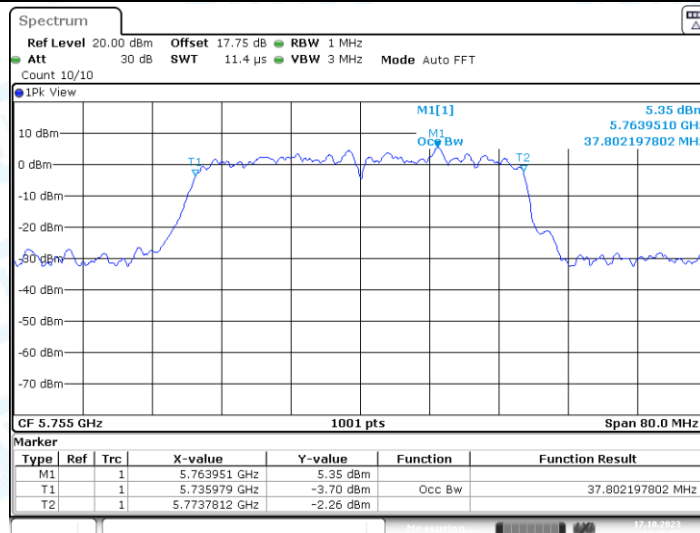


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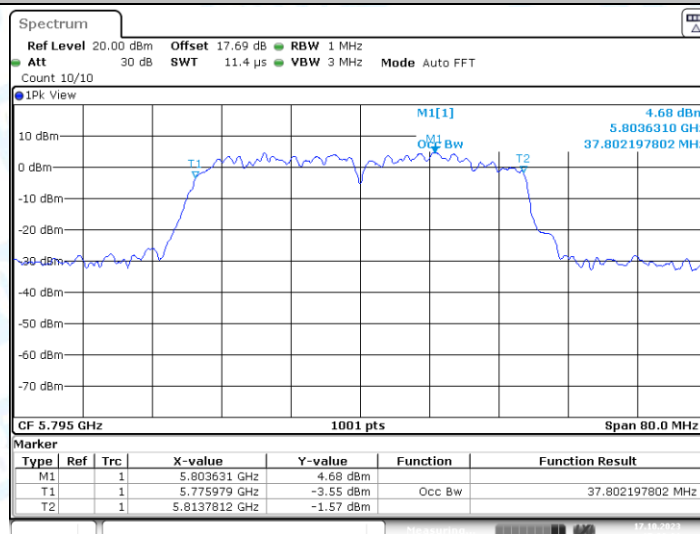
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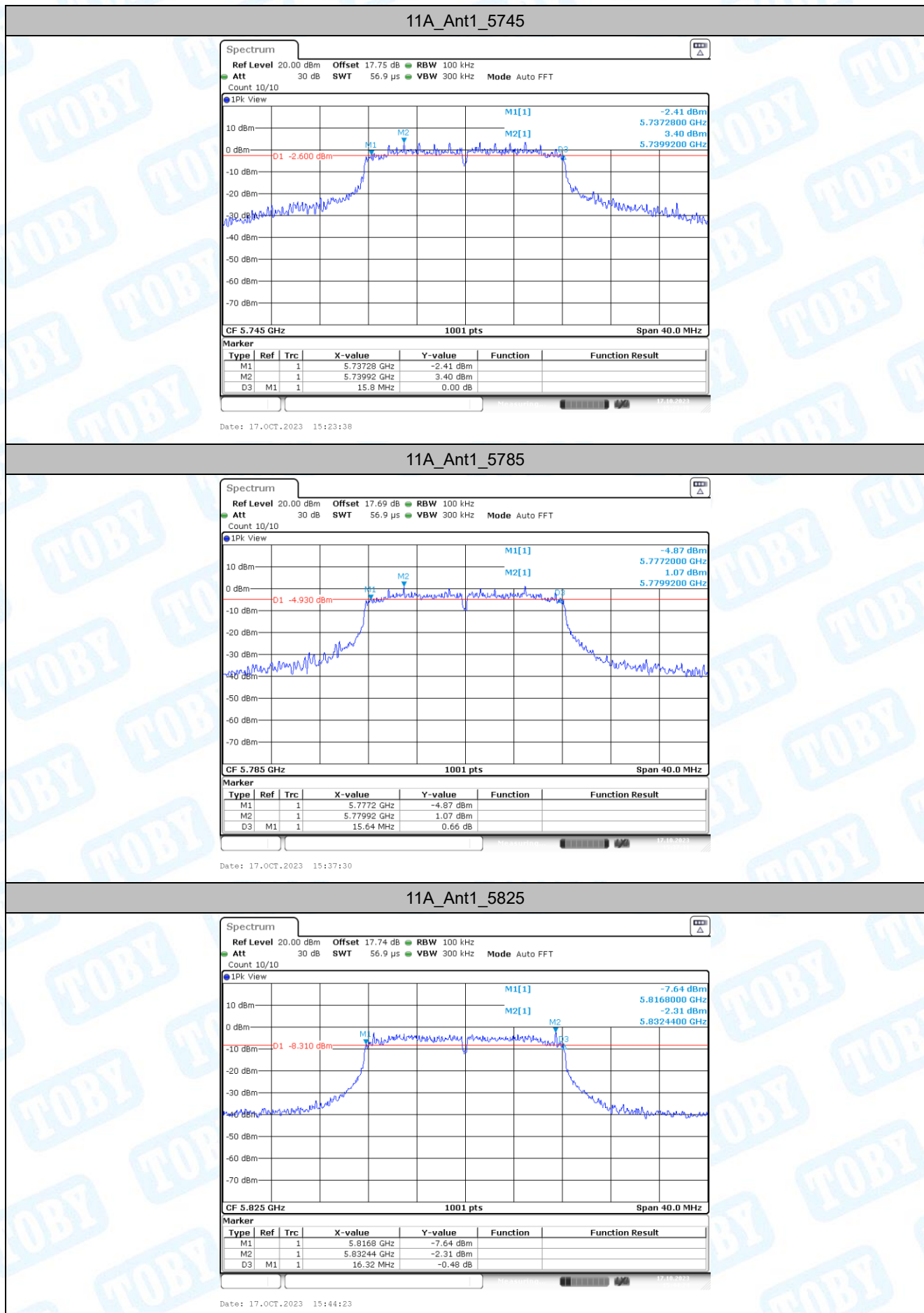
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2. Min emission bandwidth

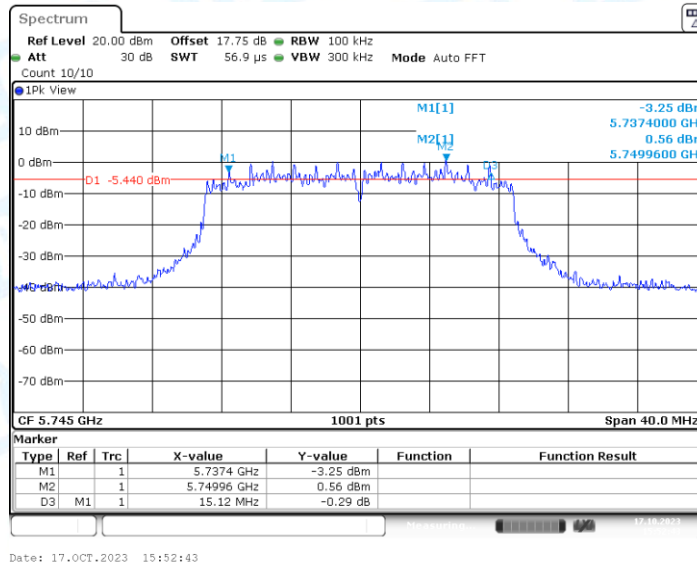
2.1. Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.80	5737.28	5753.08	0.5	PASS
		5785	15.64	5777.20	5792.84	0.5	PASS
		5825	16.32	5816.80	5833.12	0.5	PASS
11N20SISO	Ant1	5745	15.12	5737.40	5752.52	0.5	PASS
		5785	16.04	5776.48	5792.52	0.5	PASS
		5825	15.44	5817.08	5832.52	0.5	PASS
11N40SISO	Ant1	5755	35.12	5737.40	5772.52	0.5	PASS
		5795	35.12	5777.40	5812.52	0.5	PASS
11AC20SISO	Ant1	5745	15.44	5737.36	5752.80	0.5	PASS
		5785	15.12	5777.40	5792.52	0.5	PASS
		5825	15.44	5817.36	5832.80	0.5	PASS
11AC40SISO	Ant1	5755	35.12	5737.40	5772.52	0.5	PASS
		5795	35.44	5777.08	5812.52	0.5	PASS
11AX20SISO	Ant1	5745	15.60	5737.36	5752.96	0.5	PASS
		5785	15.16	5777.36	5792.52	0.5	PASS
		5825	15.16	5817.36	5832.52	0.5	PASS
11AX40SISO	Ant1	5755	35.12	5737.40	5772.52	0.5	PASS
		5795	35.12	5777.40	5812.52	0.5	PASS

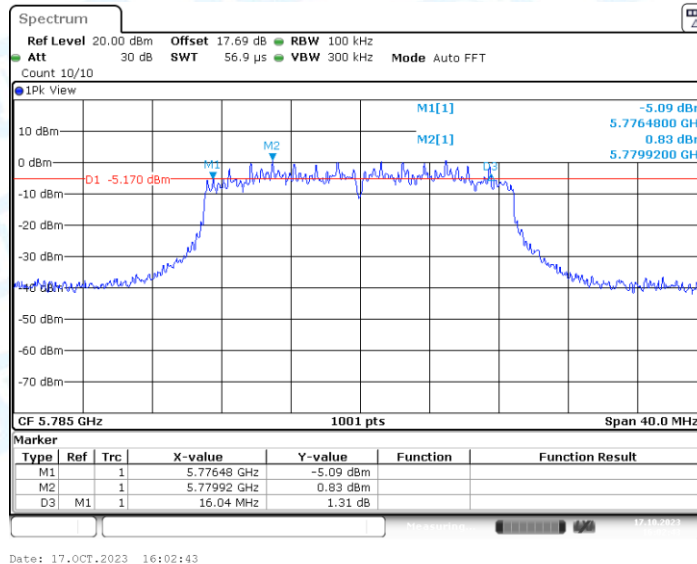
2.2. Test Graphs



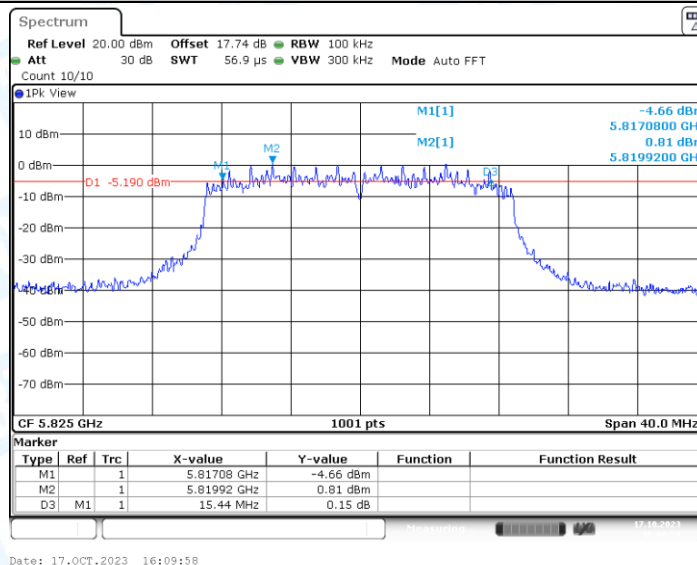
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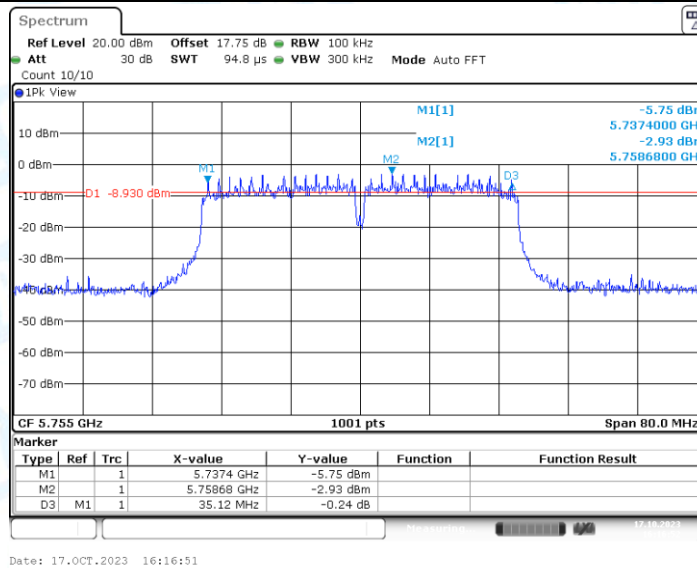
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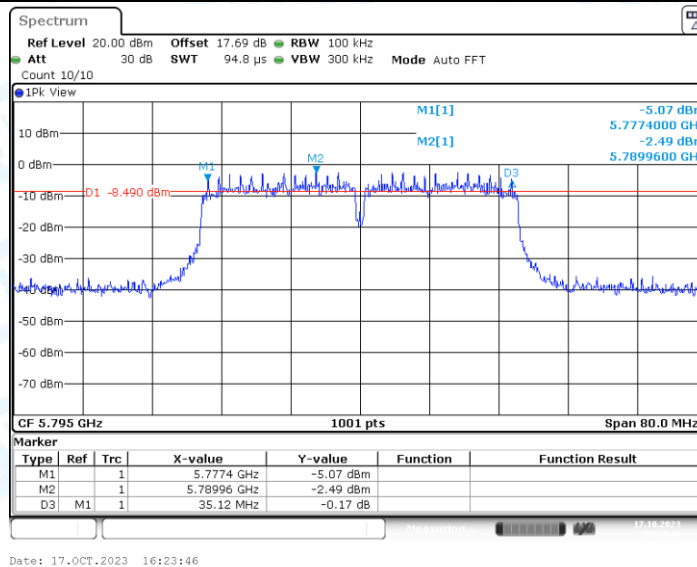
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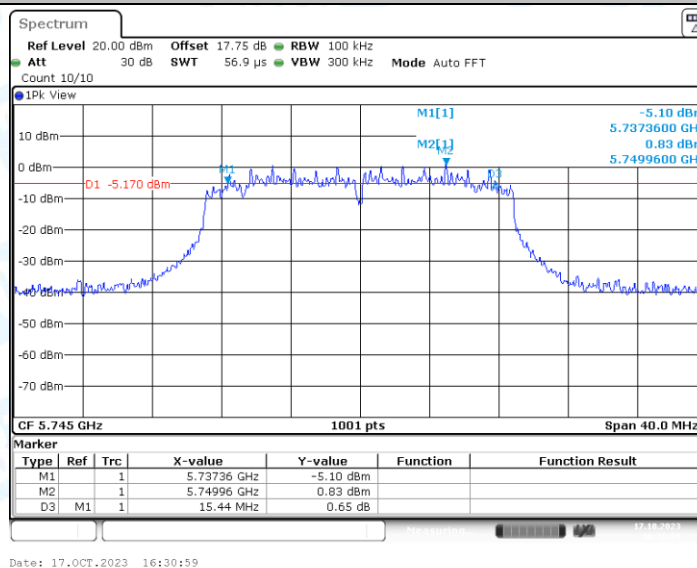
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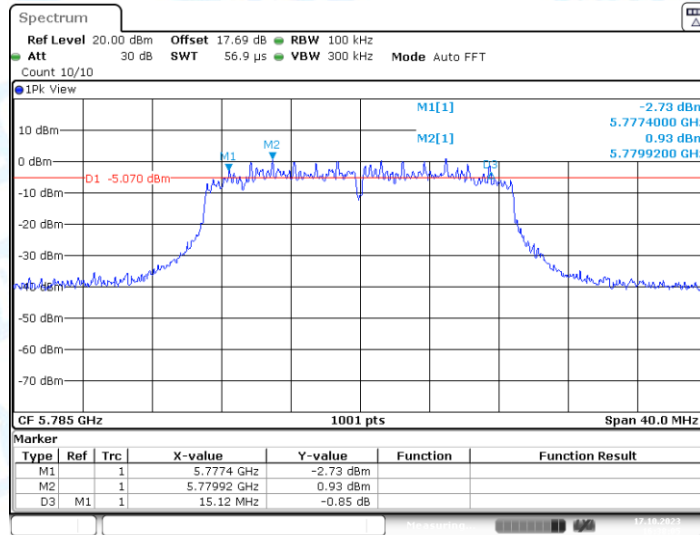
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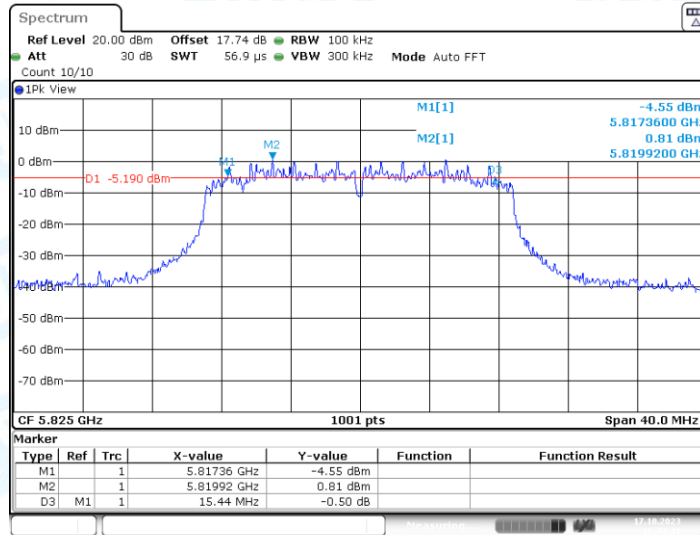
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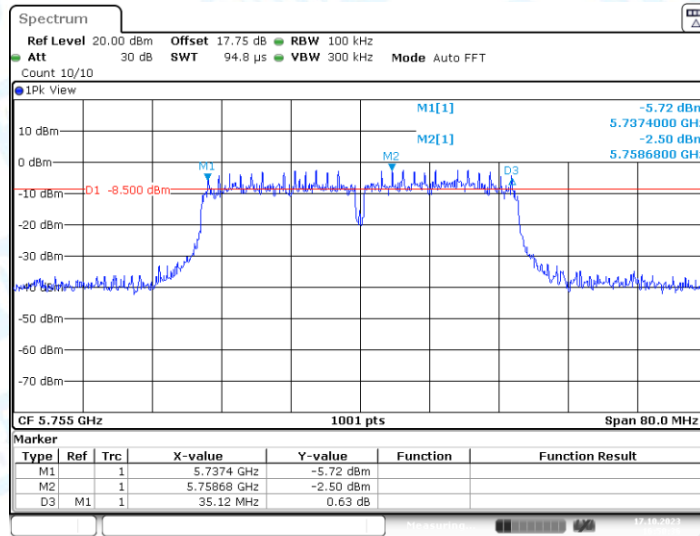
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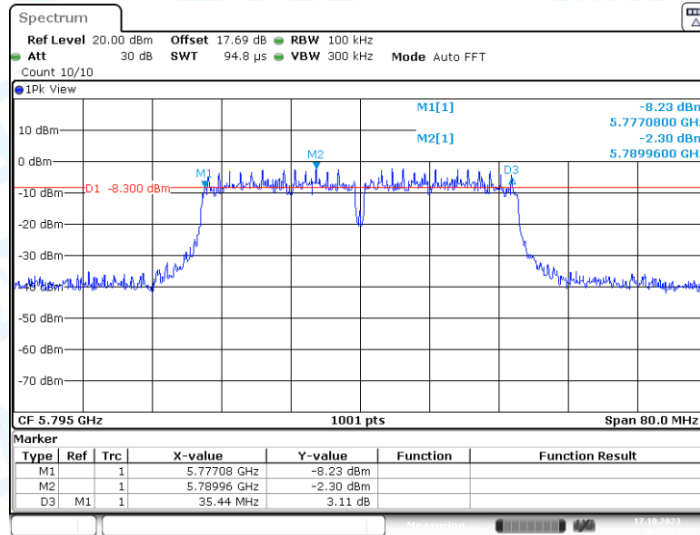
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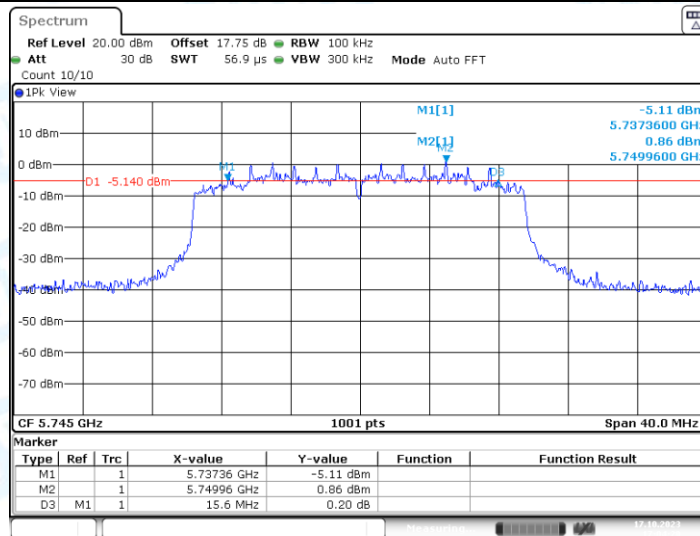


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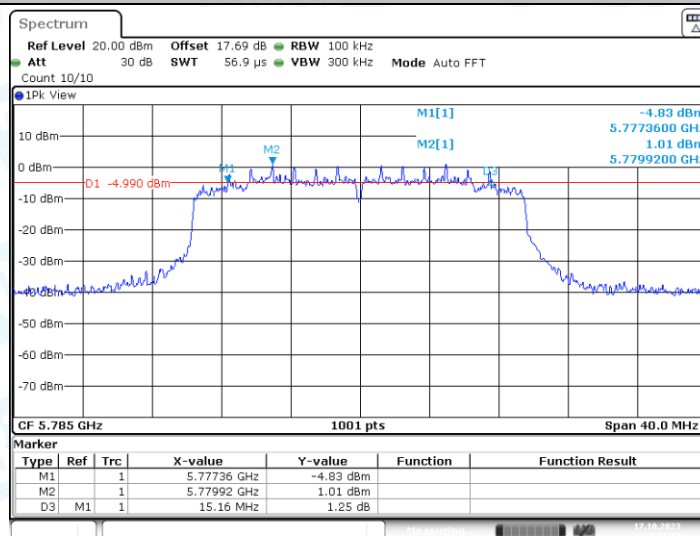
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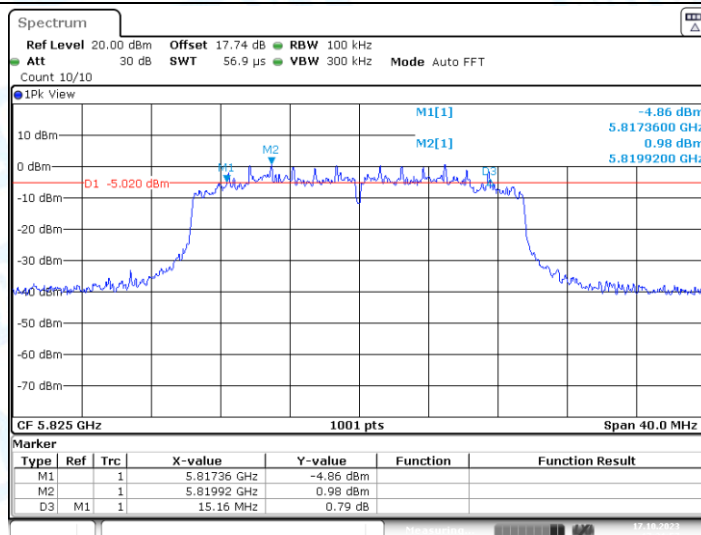
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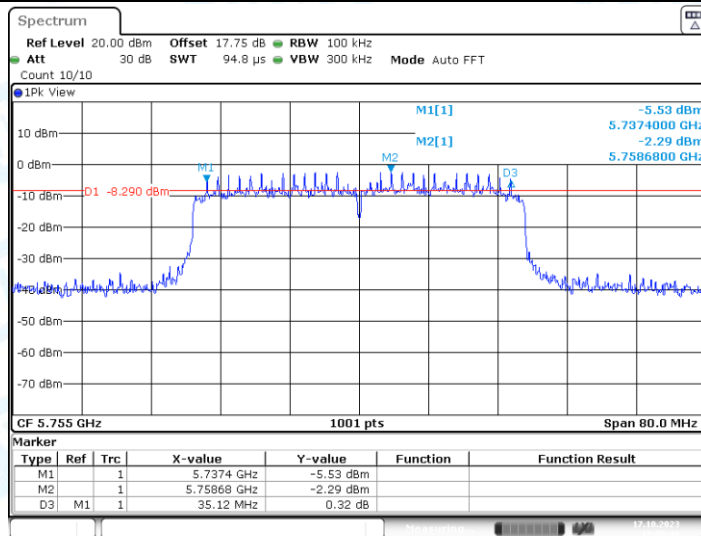
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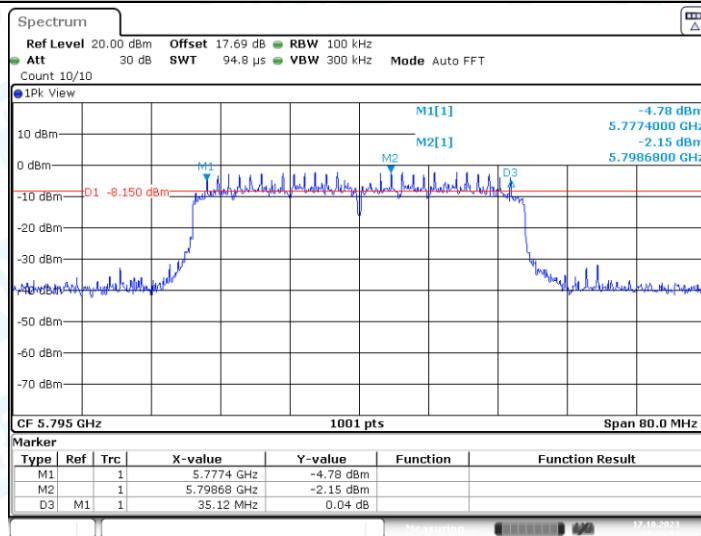
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11AX40SISO_Ant1_5755



Date: 17.OCT.2023 17:31:48

11AX40SISO_Ant1_5795



Date: 17.OCT.2023 17:35:54

3. Maximum conducted output power

3.1. Test Result

TestMode	Antenna	Channel	Conducted power [dBm]	Limit [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	10.64	≤30.00	12.64	---	PASS
		5785	10.72	≤30.00	12.72	---	PASS
		5825	10.13	≤30.00	12.13	---	PASS
11N20SISO	Ant1	5745	11.37	≤30.00	13.37	---	PASS
		5785	11.25	≤30.00	13.25	---	PASS
		5825	10.56	≤30.00	12.56	---	PASS
11N40SISO	Ant1	5755	11.64	≤30.00	13.64	---	PASS
		5795	12.06	≤30.00	14.06	---	PASS
11AC20SISO	Ant1	5745	11.33	≤30.00	13.33	---	PASS
		5785	11.60	≤30.00	13.60	---	PASS
		5825	10.75	≤30.00	12.75	---	PASS
11AC40SISO	Ant1	5755	11.69	≤30.00	13.69	---	PASS
		5795	11.56	≤30.00	13.56	---	PASS
11AX20SISO	Ant1	5745	11.26	≤30.00	13.26	---	PASS
		5785	11.70	≤30.00	13.70	---	PASS
		5825	11.02	≤30.00	13.02	---	PASS
11AX40SISO	Ant1	5755	12.16	≤30.00	14.16	---	PASS
		5795	12.23	≤30.00	14.23	---	PASS

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

4. Maximum power spectral density

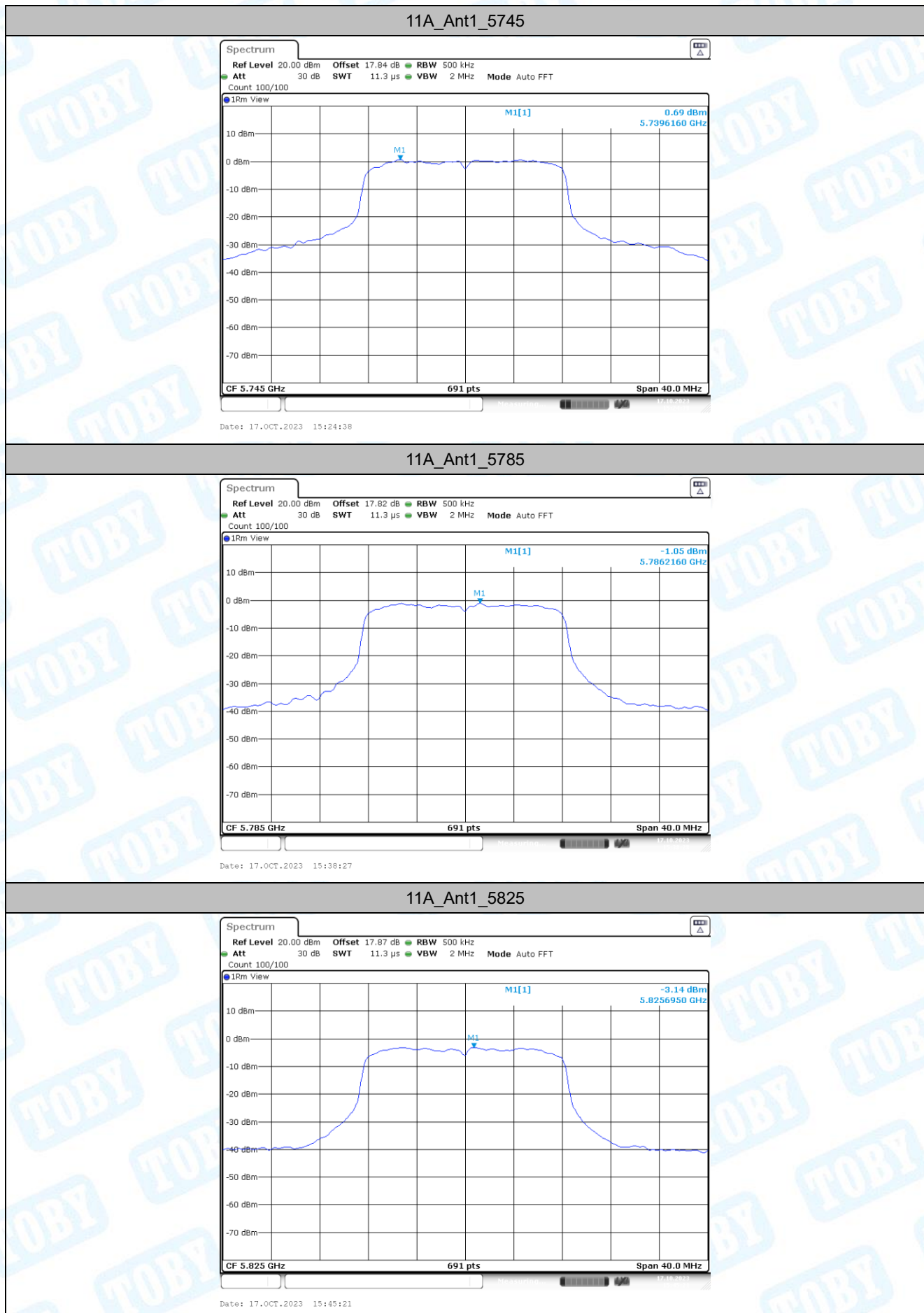
4.1. Test Result

TestMode	Antenna	Channel	Power [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5745	0.69	≤30.00	2.69	---	PASS
		5785	-1.05	≤30.00	0.95	---	PASS
		5825	-3.14	≤30.00	-1.14	---	PASS
11N20SISO	Ant1	5745	-2.16	≤30.00	-0.16	---	PASS
		5785	-2.19	≤30.00	-0.19	---	PASS
		5825	-2.61	≤30.00	-0.61	---	PASS
11N40SISO	Ant1	5755	-5.04	≤30.00	-3.04	---	PASS
		5795	-4.38	≤30.00	-2.38	---	PASS
11AC20SISO	Ant1	5745	-2.40	≤30.00	-0.40	---	PASS
		5785	-1.25	≤30.00	0.75	---	PASS
		5825	-2.15	≤30.00	-0.15	---	PASS
11AC40SISO	Ant1	5755	-4.89	≤30.00	-2.89	---	PASS
		5795	-5.10	≤30.00	-3.10	---	PASS
11AX20SISO	Ant1	5745	-2.12	≤30.00	-0.12	---	PASS
		5785	-1.80	≤30.00	0.20	---	PASS
		5825	-2.15	≤30.00	-0.15	---	PASS
11AX40SISO	Ant1	5755	-4.46	≤30.00	-2.46	---	PASS
		5795	-4.26	≤30.00	-2.26	---	PASS

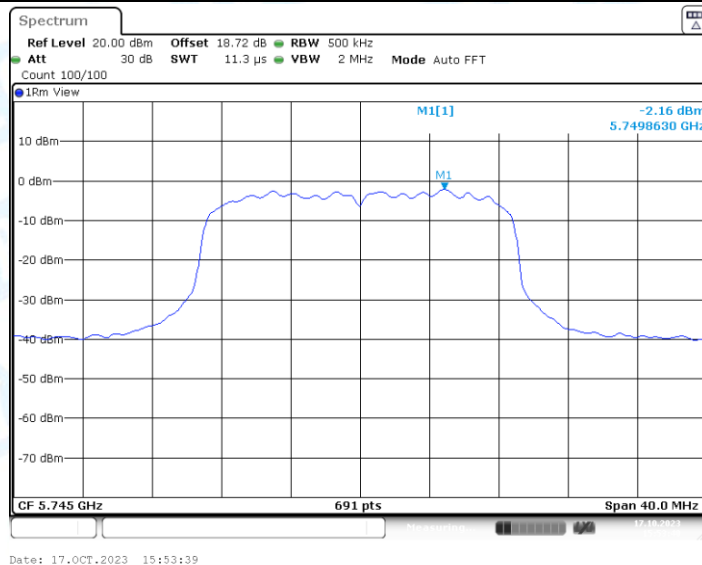
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

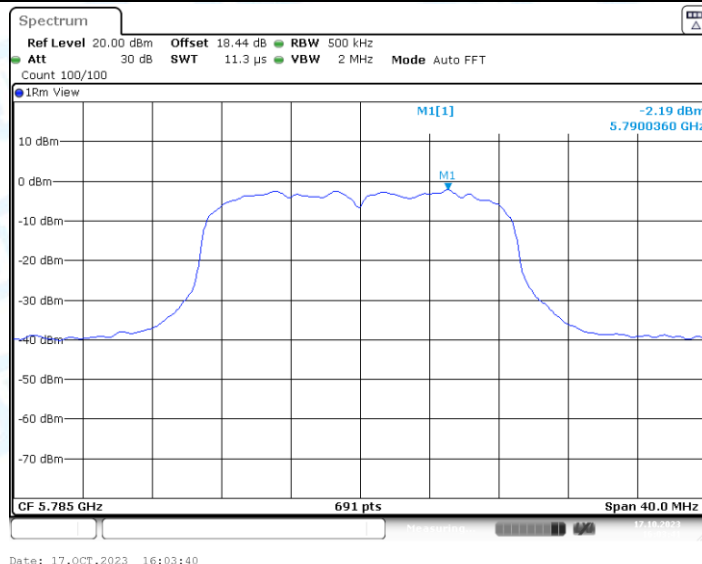
4.2. Test Graphs



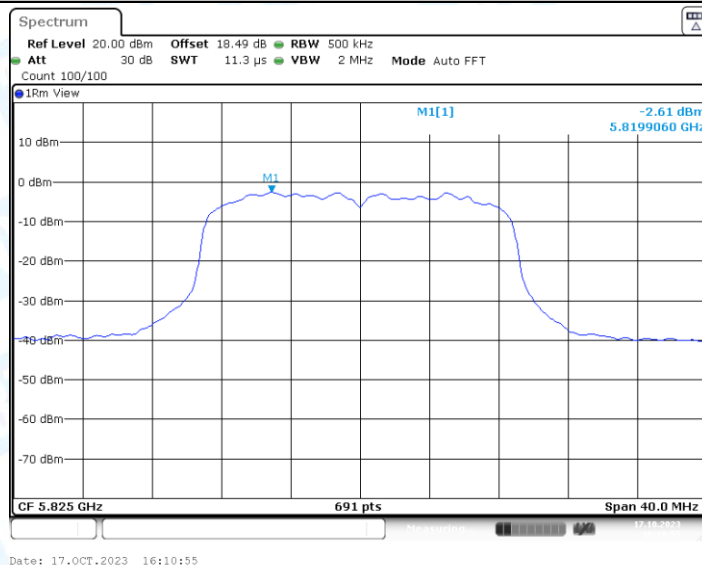
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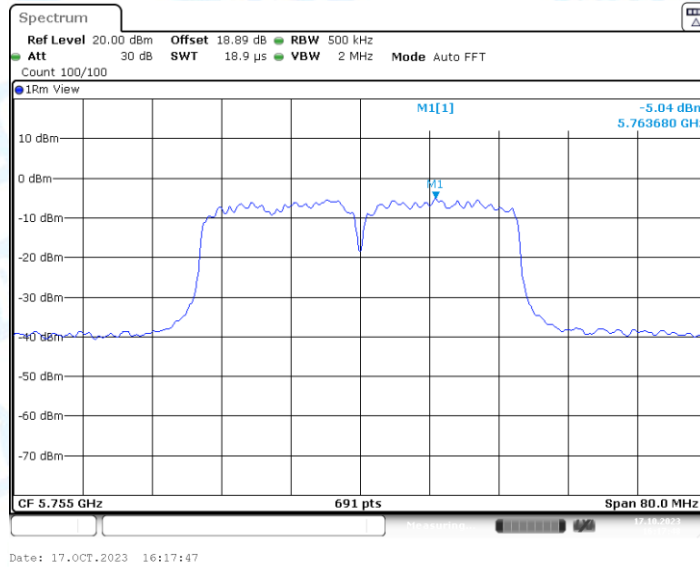
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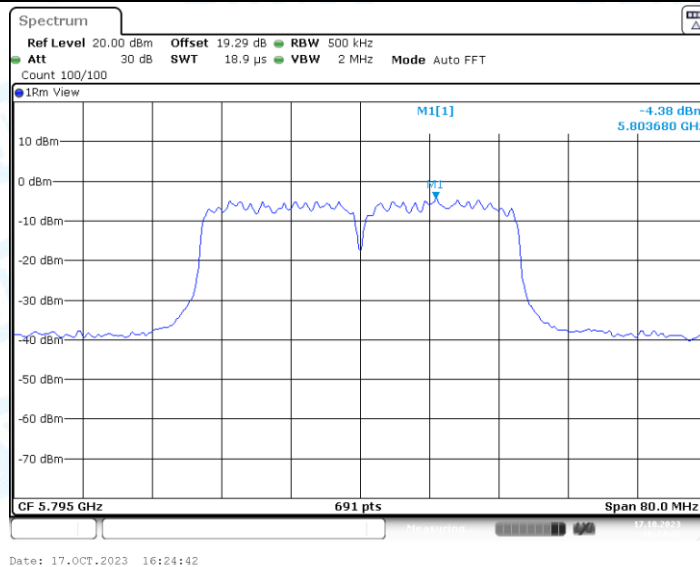
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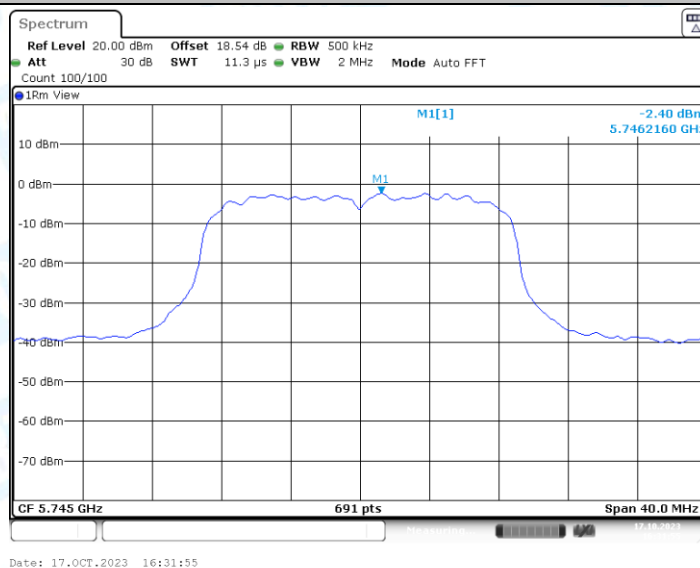
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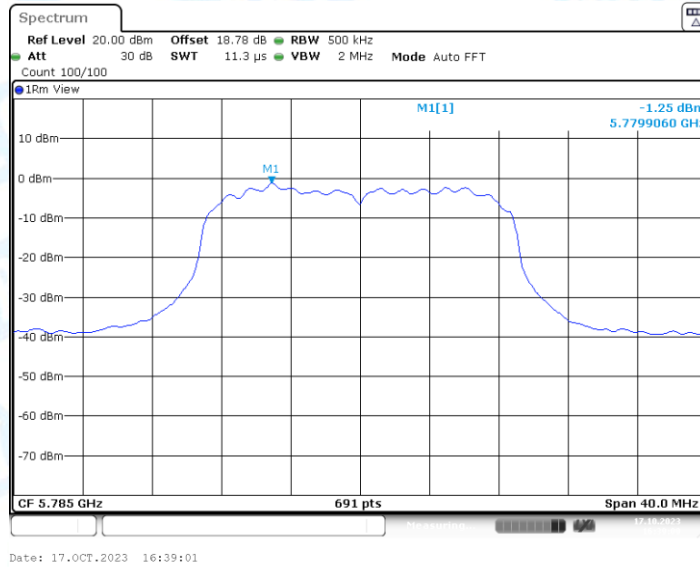
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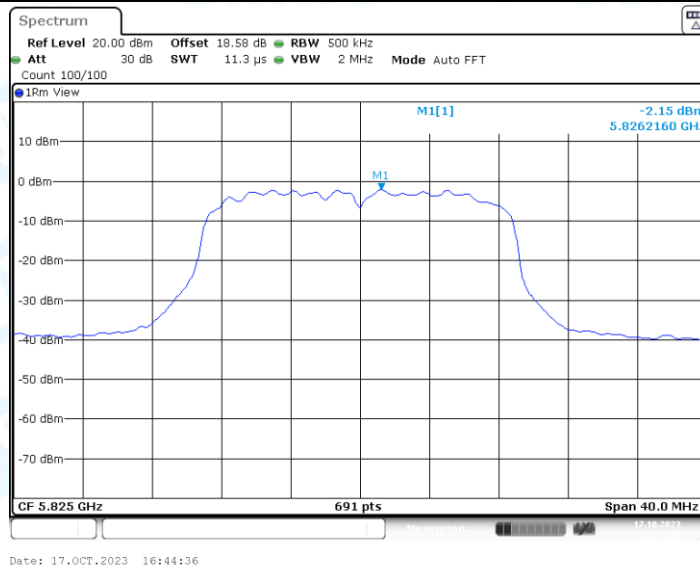
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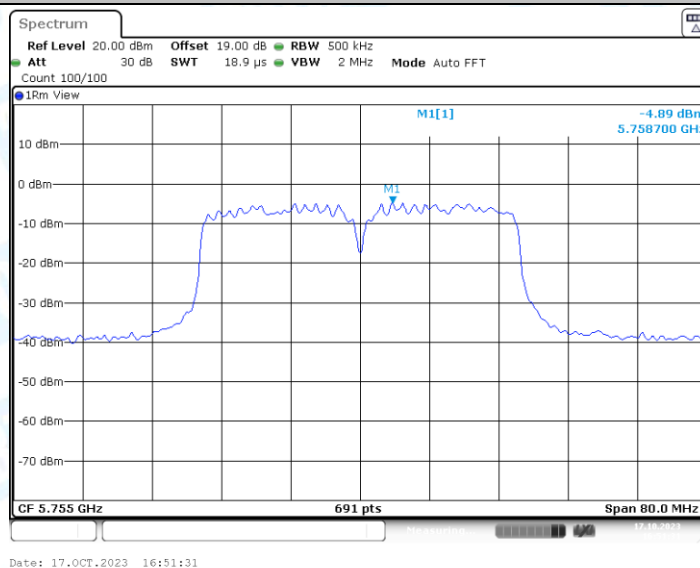
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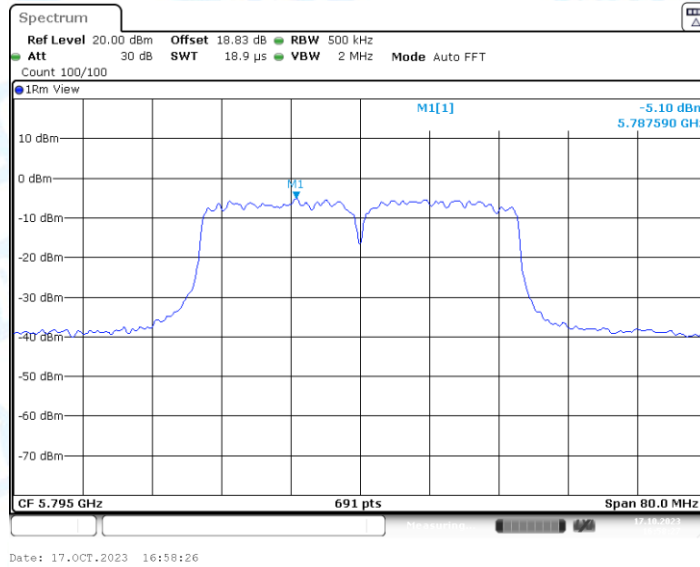
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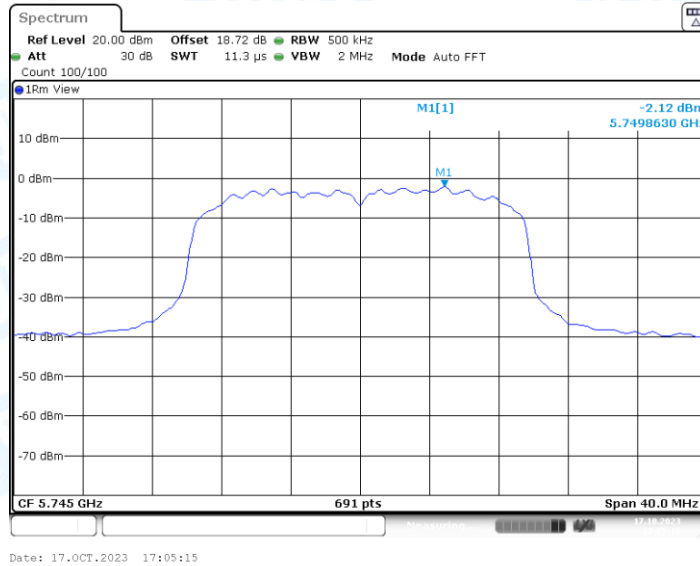
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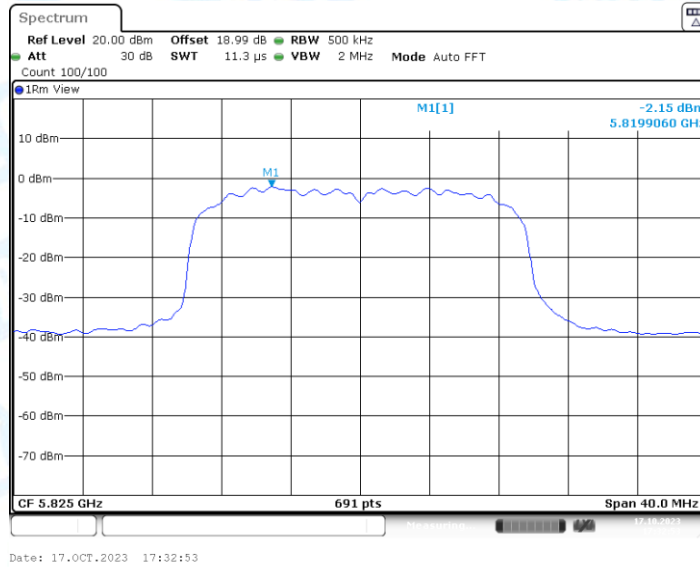
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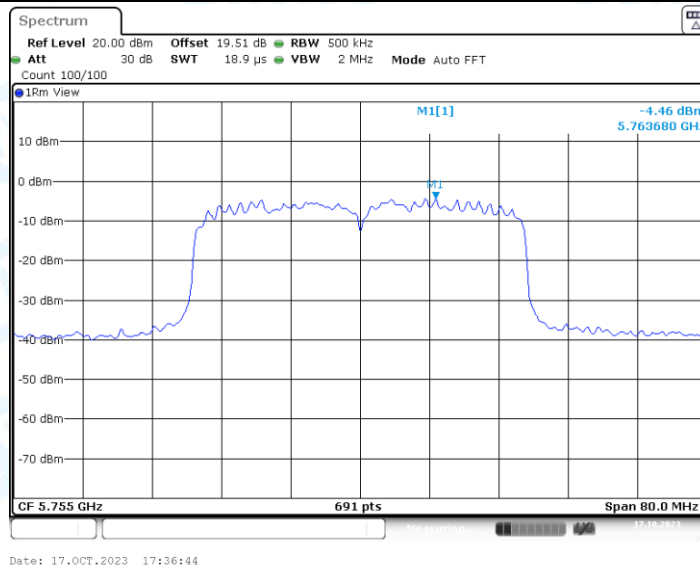
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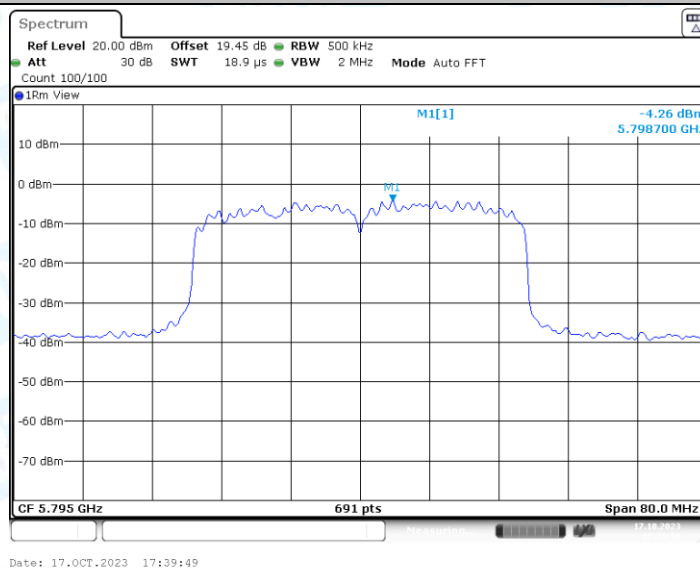
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11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795

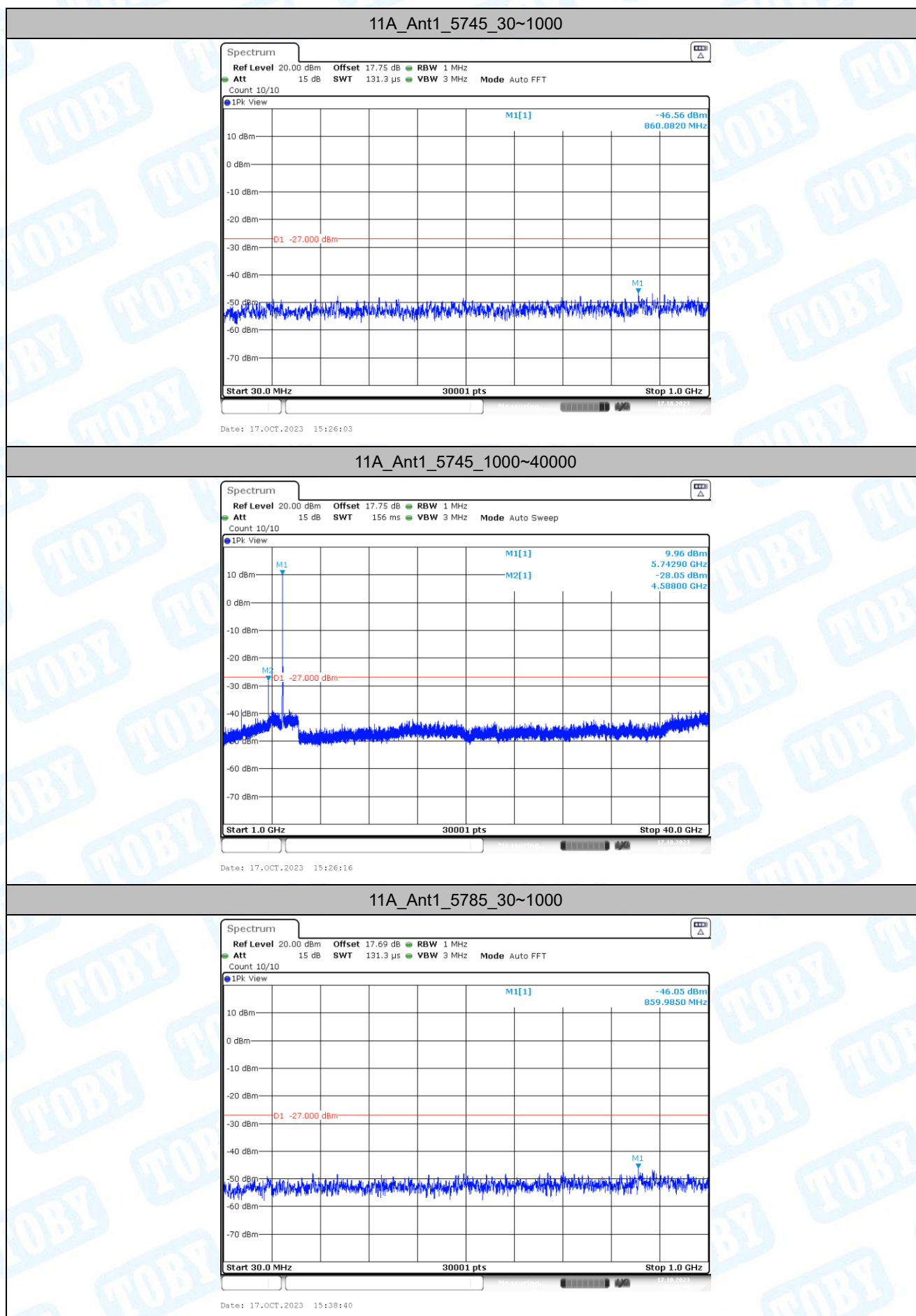


5. Conducted Spurious Emission

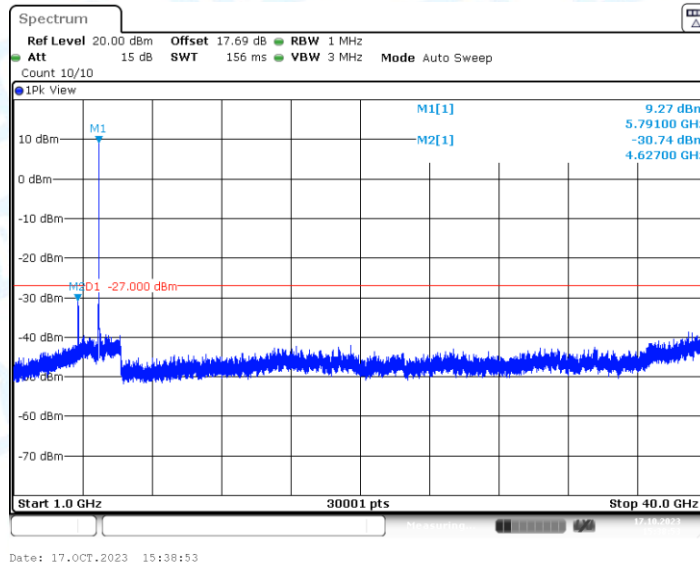
5.1. Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~1000	860.08	-46.56	≤-27	PASS
			1000~40000	4588	-28.05	≤-27	PASS
		5785	30~1000	859.99	-46.05	≤-27	PASS
			1000~40000	4627	-30.74	≤-27	PASS
		5825	30~1000	862.54	-45.85	≤-27	PASS
			1000~40000	4659.5	-30.92	≤-27	PASS
11N20SISO	Ant1	5745	30~1000	958.37	-46.68	≤-27	PASS
			1000~40000	4595.8	-30.53	≤-27	PASS
		5785	30~1000	961.93	-46.69	≤-27	PASS
			1000~40000	4627	-31.00	≤-27	PASS
		5825	30~1000	897.81	-46.55	≤-27	PASS
			1000~40000	4659.5	-30.87	≤-27	PASS
11N40SISO	Ant1	5755	30~1000	420.78	-47.22	≤-27	PASS
			1000~40000	4619.2	-27.77	≤-27	PASS
		5795	30~1000	706.38	-45.99	≤-27	PASS
			1000~40000	4617.9	-28.56	≤-27	PASS
11AC20SISO	Ant1	5745	30~1000	888.54	-46.69	≤-27	PASS
			1000~40000	4590.6	-31.19	≤-27	PASS
		5785	30~1000	862.77	-46.72	≤-27	PASS
			1000~40000	4620.5	-29.01	≤-27	PASS
		5825	30~1000	963.19	-46.97	≤-27	PASS
			1000~40000	4659.5	-30.31	≤-27	PASS
11AC40SISO	Ant1	5755	30~1000	889.31	-45.84	≤-27	PASS
			1000~40000	4589.3	-27.78	≤-27	PASS
		5795	30~1000	860.02	-46.96	≤-27	PASS
			1000~40000	4620.5	-27.49	≤-27	PASS
11AX20SISO	Ant1	5745	30~1000	895.42	-46.99	≤-27	PASS
			1000~40000	4589.3	-30.23	≤-27	PASS
		5785	30~1000	945.41	-47.04	≤-27	PASS
			1000~40000	4620.5	-29.5	≤-27	PASS
		5825	30~1000	861.96	-46.01	≤-27	PASS
			1000~40000	4659.5	-30.84	≤-27	PASS
11AX40SISO	Ant1	5755	30~1000	707.54	-46.88	≤-27	PASS
			1000~40000	4620.5	-28.39	≤-27	PASS
		5795	30~1000	722.67	-46.79	≤-27	PASS
			1000~40000	4617.9	-27.53	≤-27	PASS

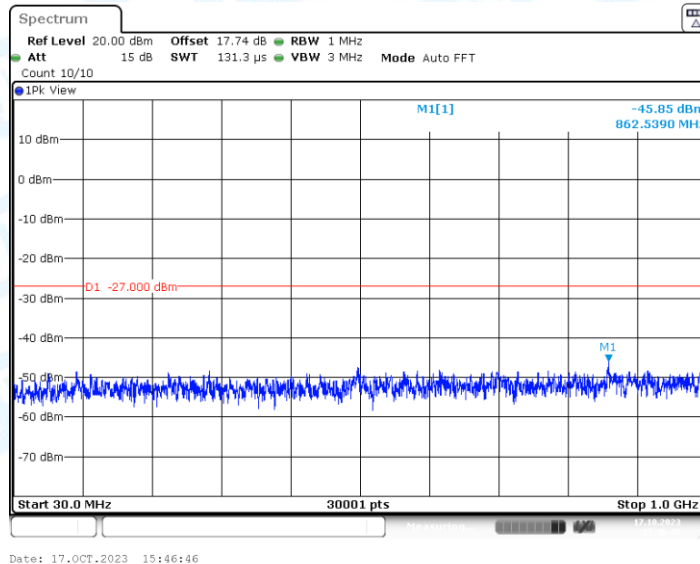
5.2. Test Graphs



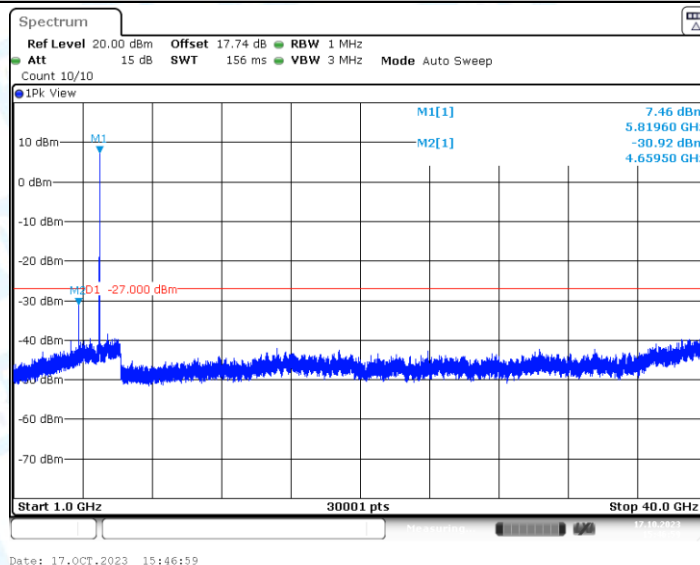
11A_Ant1_5785_1000~40000



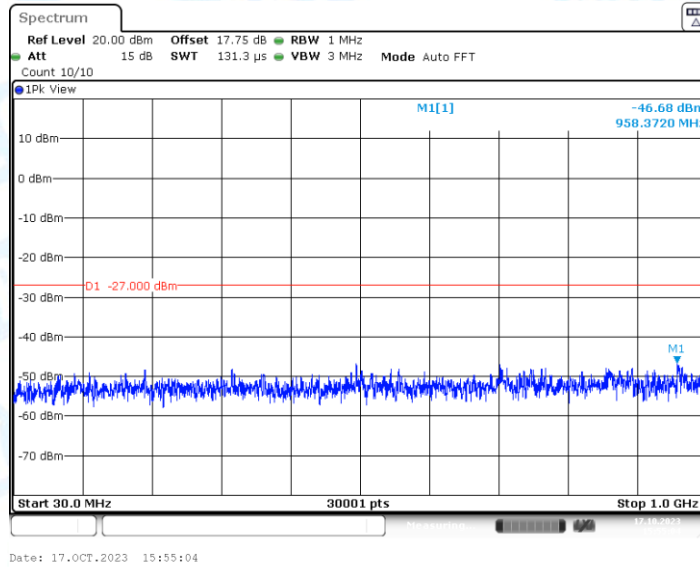
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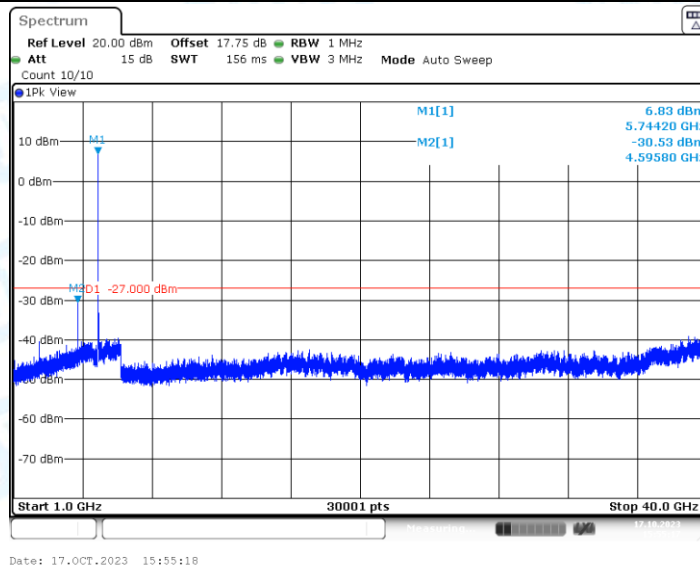
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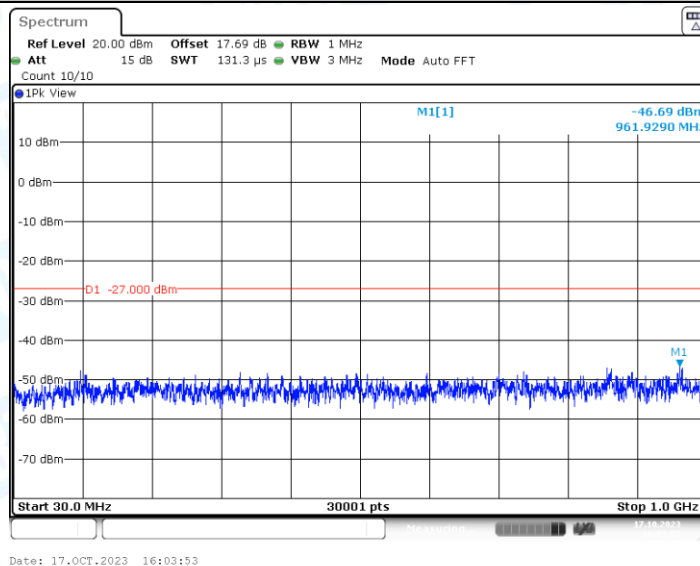
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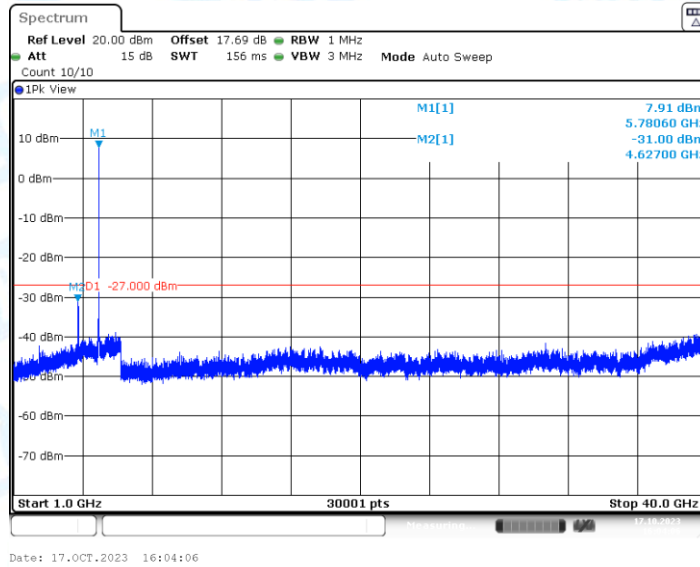
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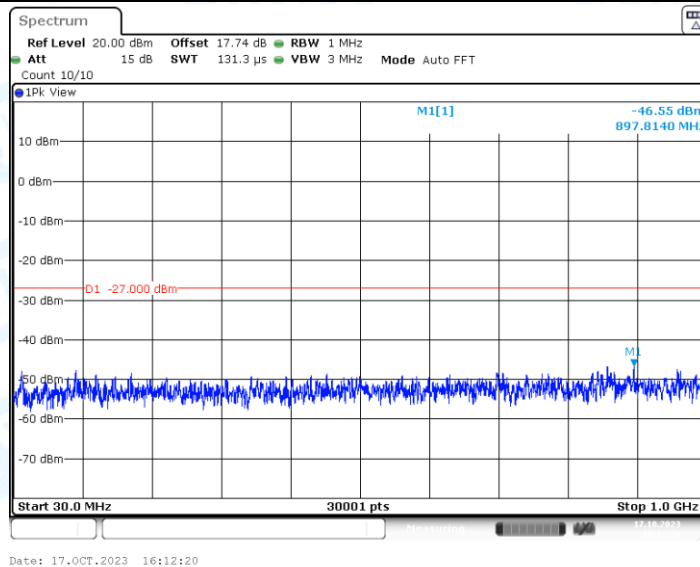
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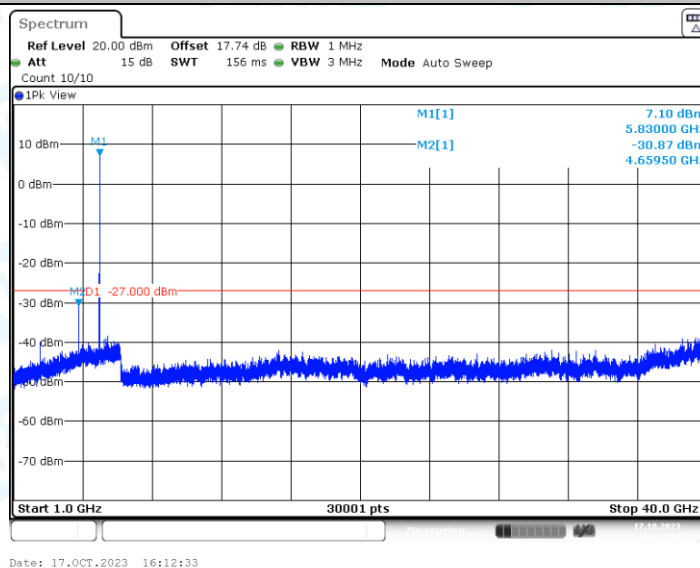
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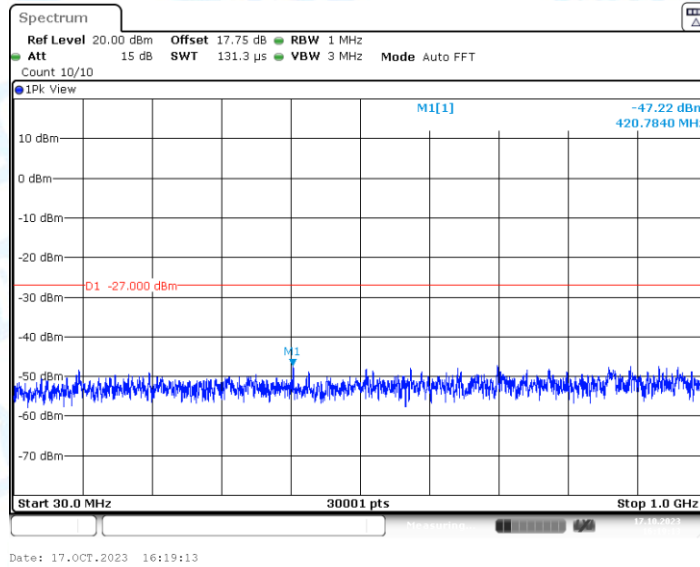
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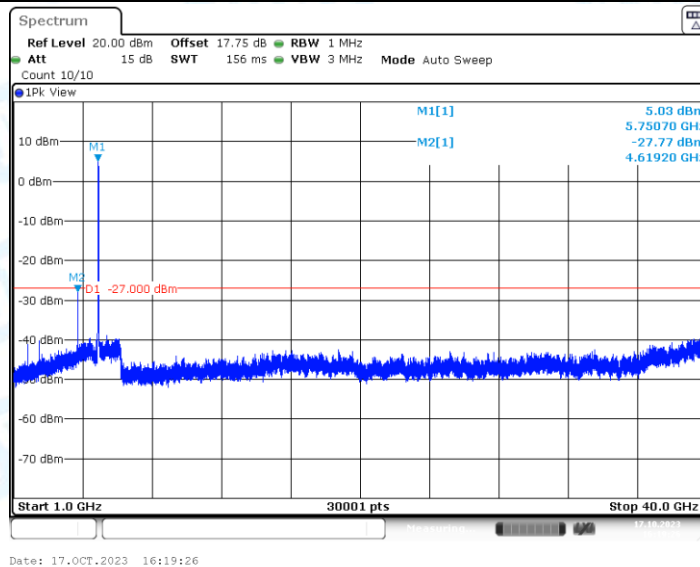
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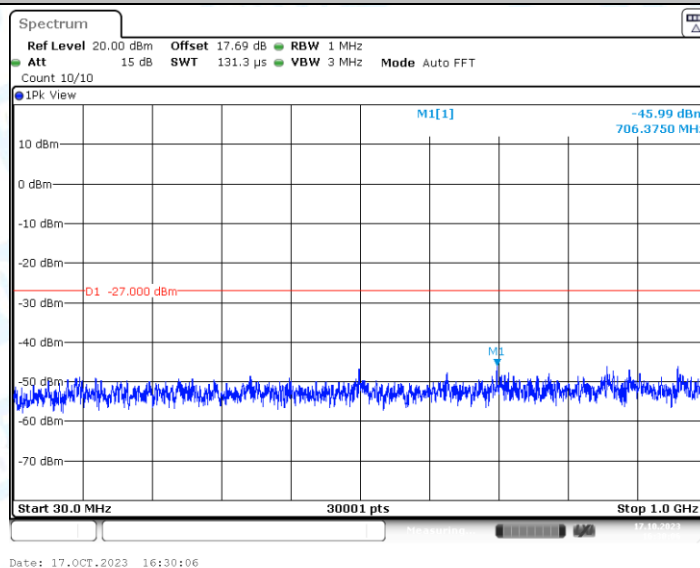
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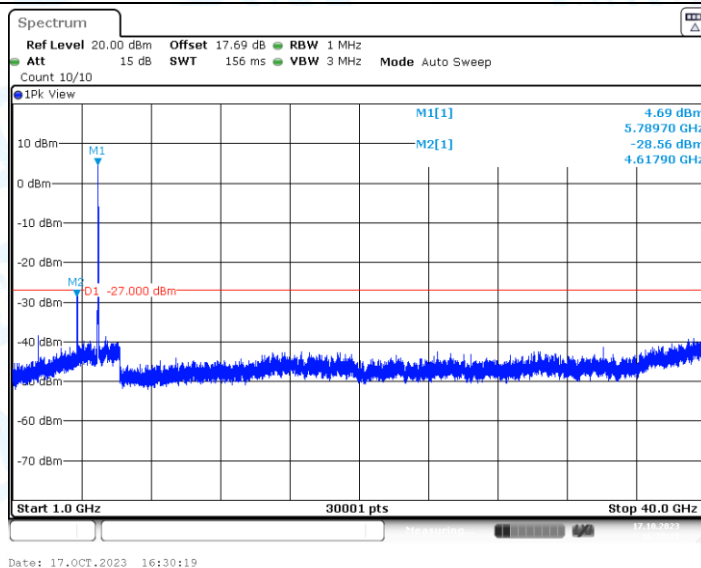
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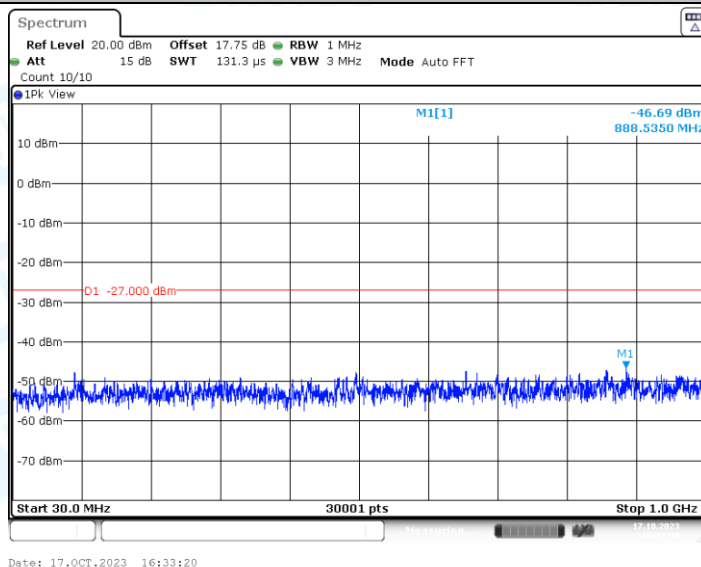
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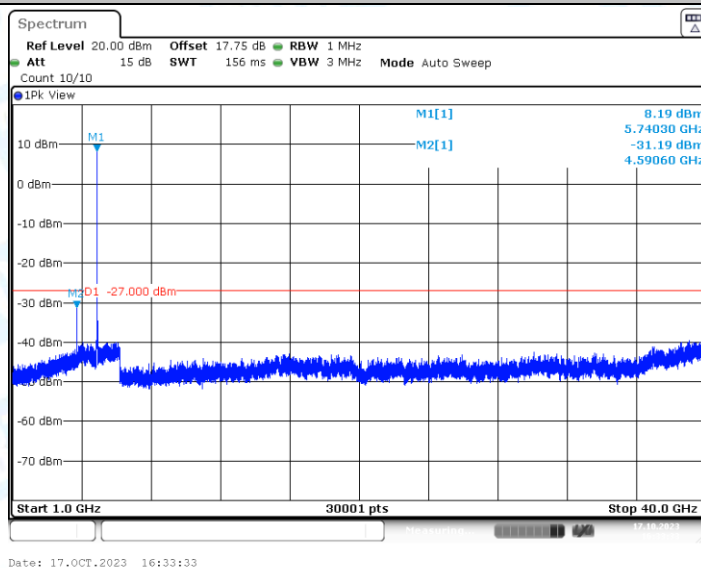
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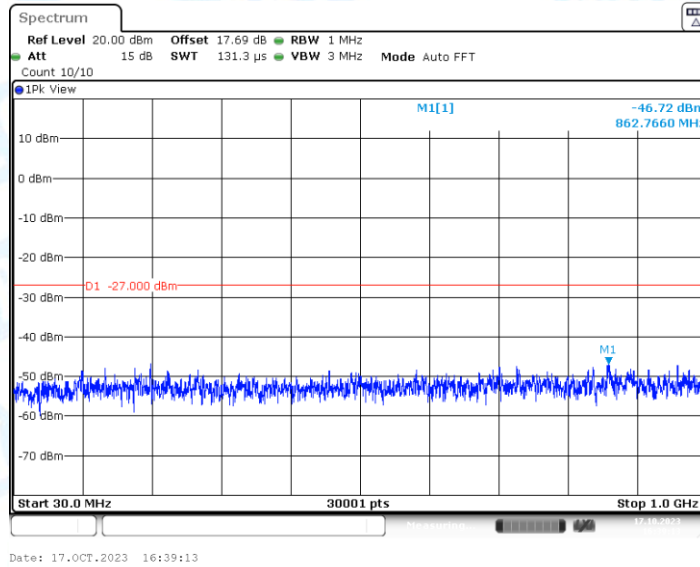
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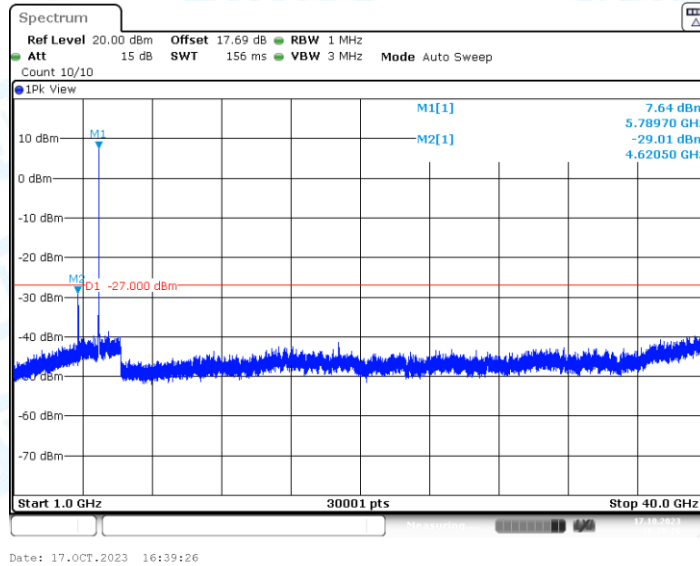
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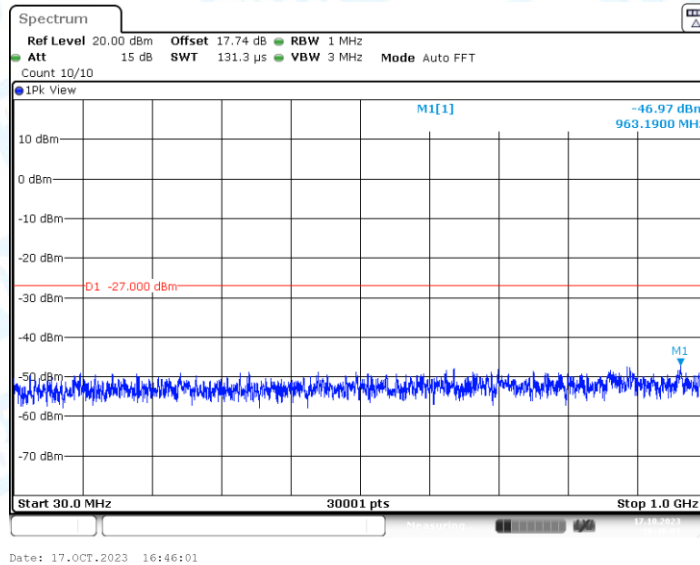
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11AC20SISO_Ant1_5785_1000~40000



11AC20SISO_Ant1_5825_30~1000



11AC20SISO_Ant1_5825_1000~40000