

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

General Description of EUT	
Product Name:	Smart POS Payment Terminal
Test Model:	CM30
Sample ID:	202311-0170-7-2#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 24V
Test Engineer:	Yan zhen ming
Note: For a more detailed features description, please refer to the report TBR-C-202311-0170-83 The report only show the worst case data.	

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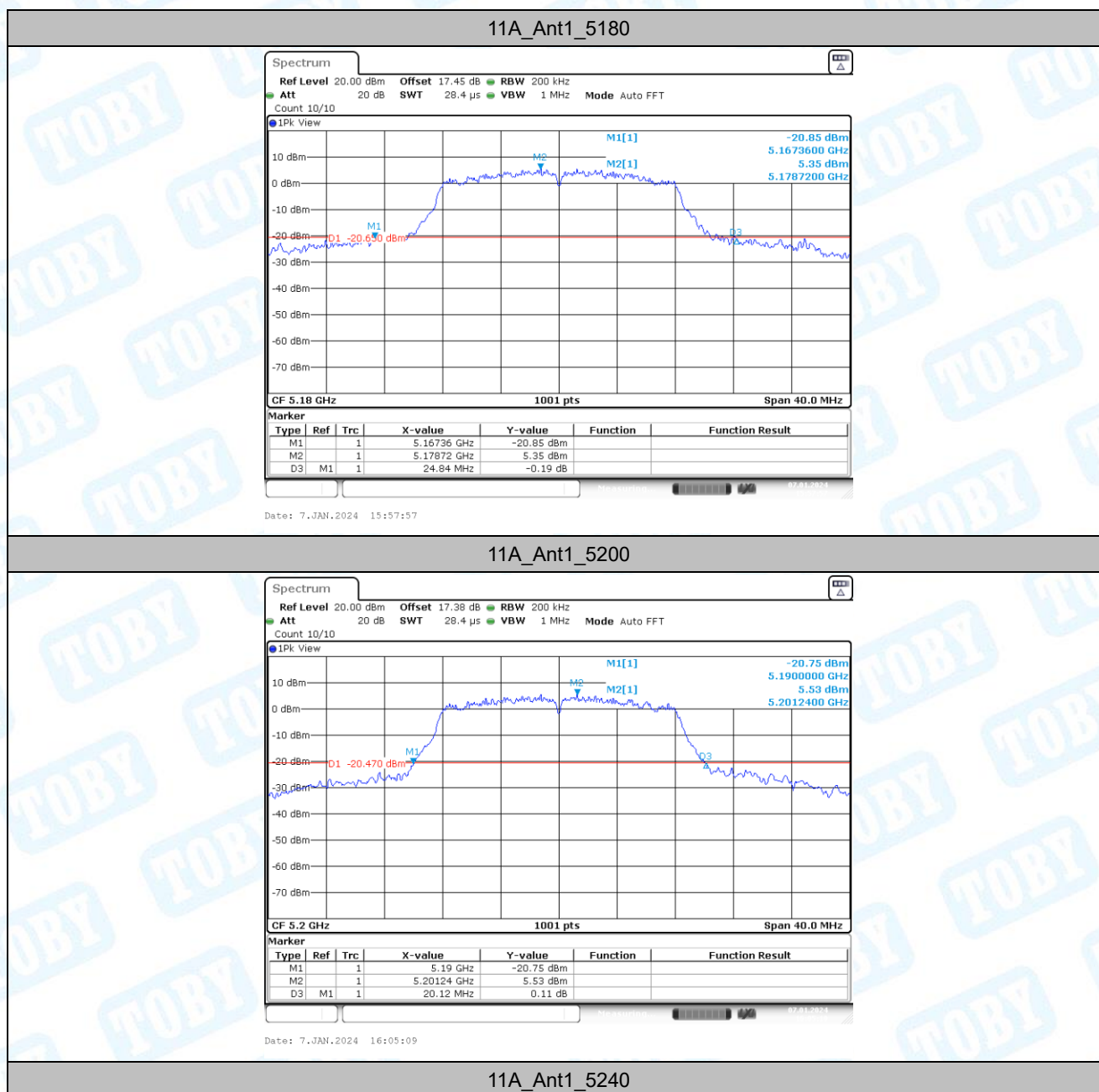
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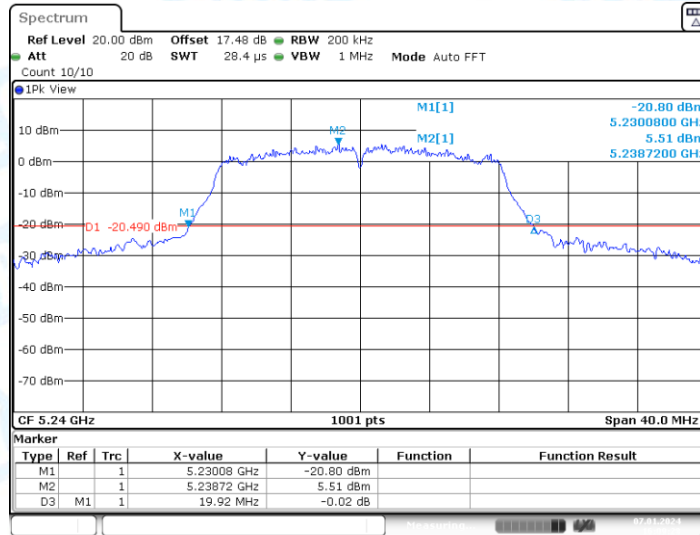
1. Emission Bandwidth

1.1. Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	24.84	5167.36	5192.20	---	---
		5200	20.12	5190.00	5210.12	---	---
		5240	19.92	5230.08	5250.00	---	---
		5745	28.00	5729.28	5757.28	---	---
		5785	25.88	5771.44	5797.32	---	---
		5825	27.08	5811.44	5838.52	---	---
11N20SISO	Ant1	5180	23.08	5168.16	5191.24	---	---
		5200	20.56	5189.56	5210.12	---	---
		5240	23.56	5228.20	5251.76	---	---
		5745	24.64	5732.20	5756.84	---	---
		5785	31.56	5769.44	5801.00	---	---
		5825	31.88	5809.52	5841.40	---	---
11N40SISO	Ant1	5190	46.96	5167.76	5214.72	---	---
		5230	42.08	5209.44	5251.52	---	---
		5755	66.16	5720.20	5786.36	---	---
		5795	69.12	5758.92	5828.04	---	---
11AC20SISO	Ant1	5180	20.40	5169.92	5190.32	---	---
		5200	21.84	5189.80	5211.64	---	---
		5240	20.32	5229.80	5250.12	---	---
		5745	27.12	5730.52	5757.64	---	---
		5785	26.20	5771.48	5797.68	---	---
		5825	35.48	5805.92	5841.40	---	---
11AC40SISO	Ant1	5190	40.48	5169.68	5210.16	---	---
		5230	41.92	5209.52	5251.44	---	---
		5755	65.92	5720.28	5786.20	---	---
		5795	74.08	5757.00	5831.08	---	---

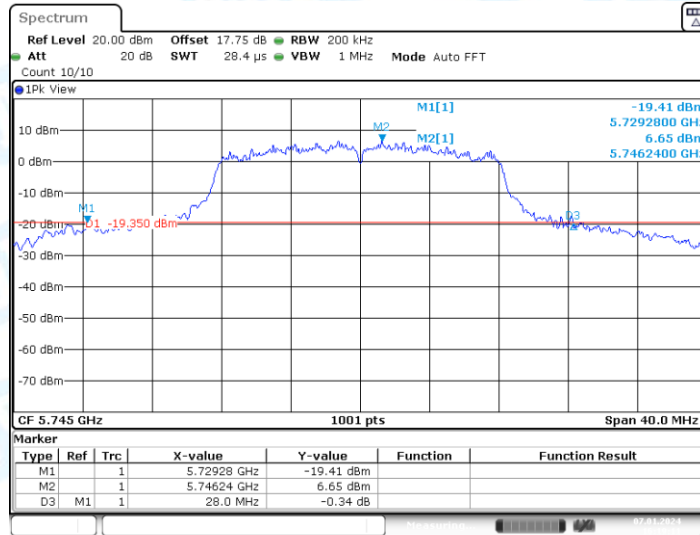
2.1. Test Graphs





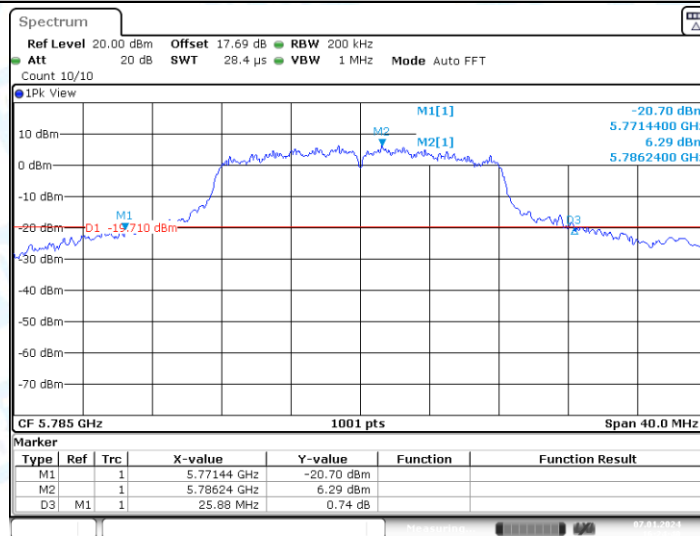
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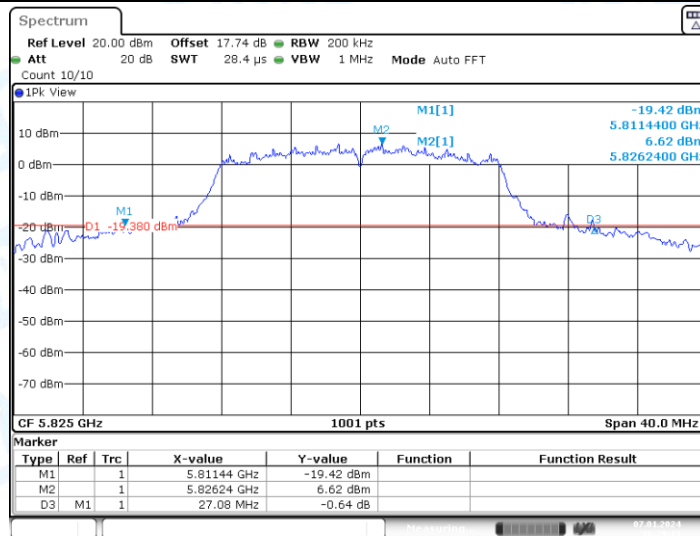
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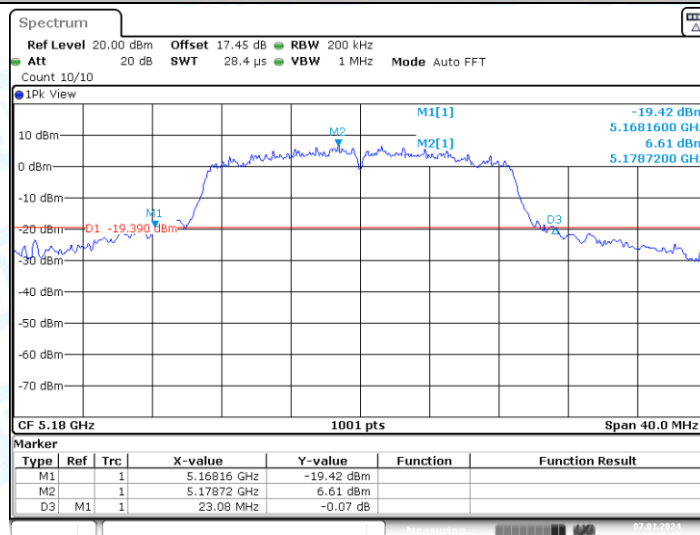
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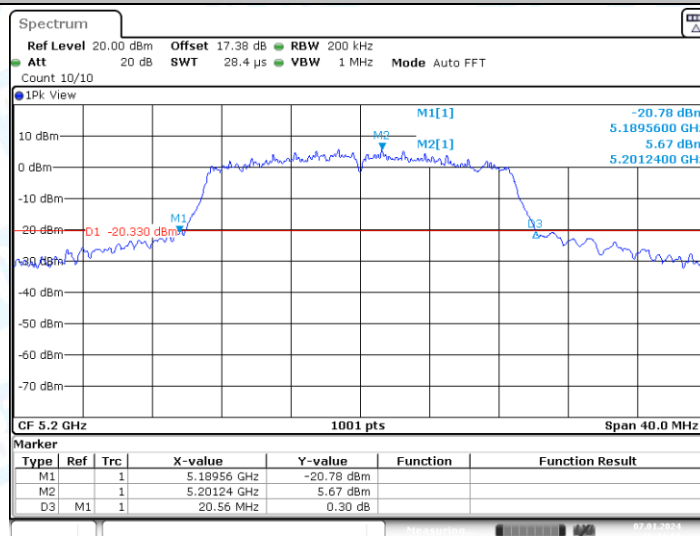
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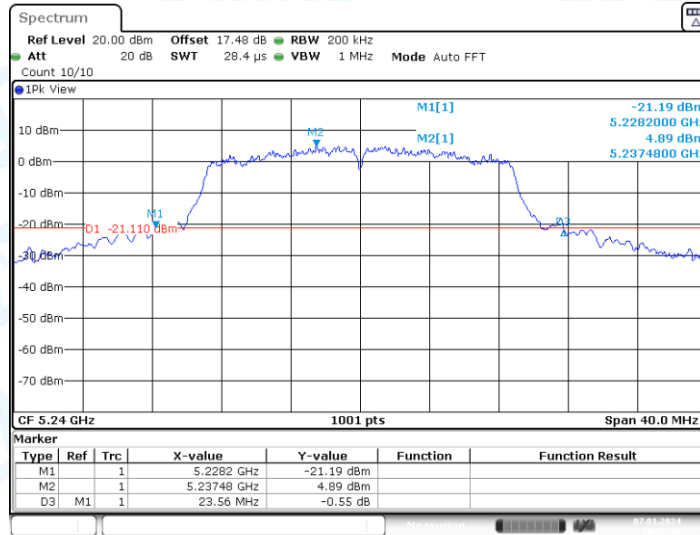
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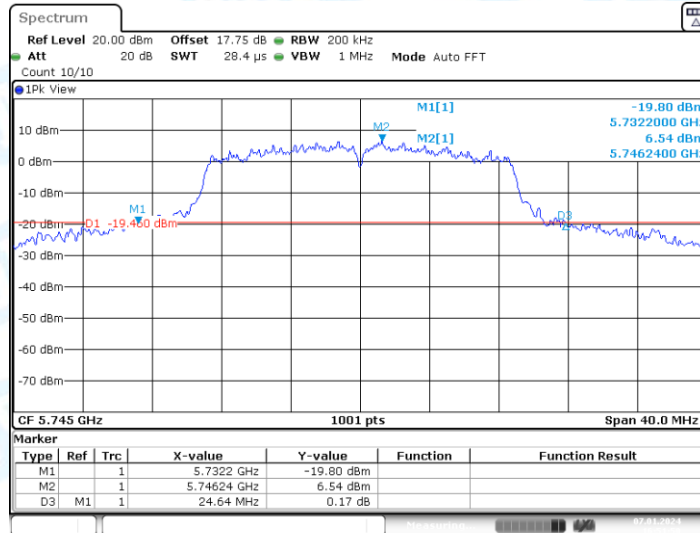
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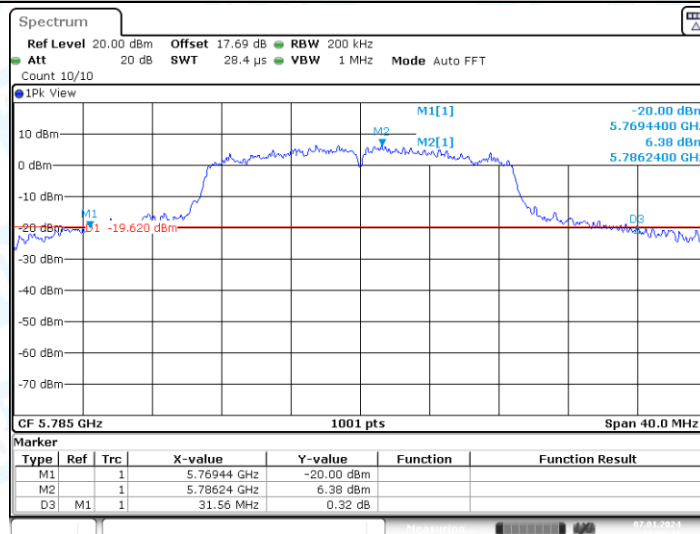
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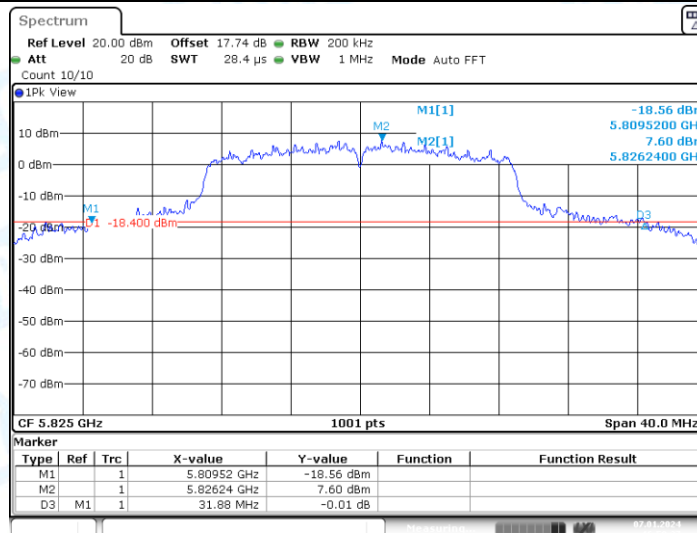
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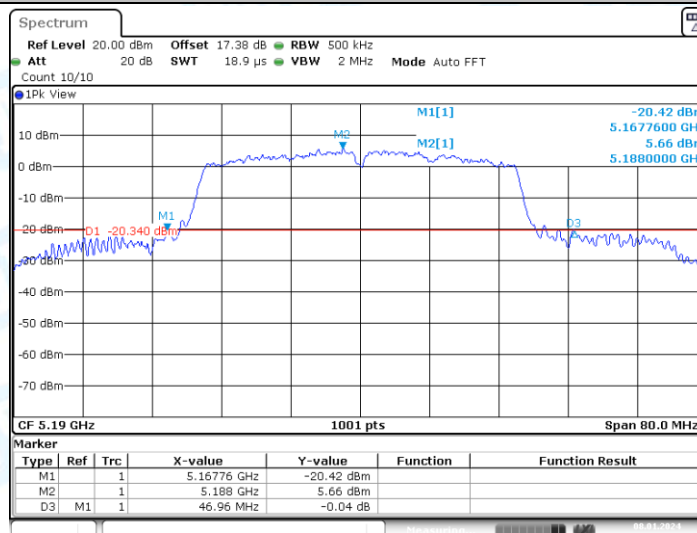
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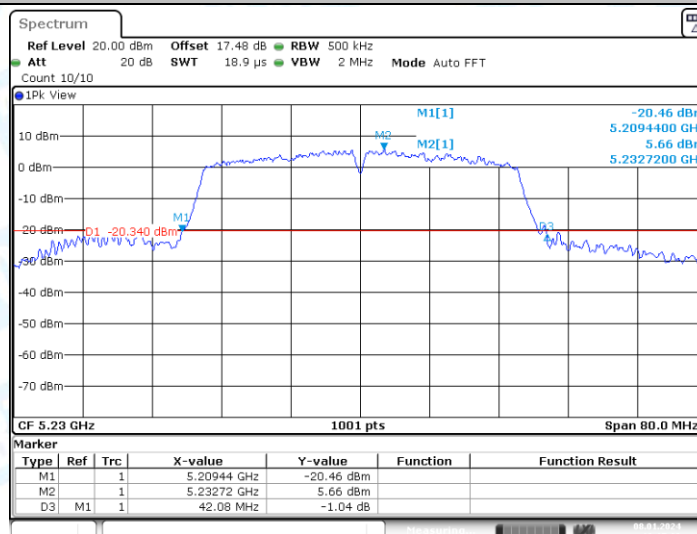
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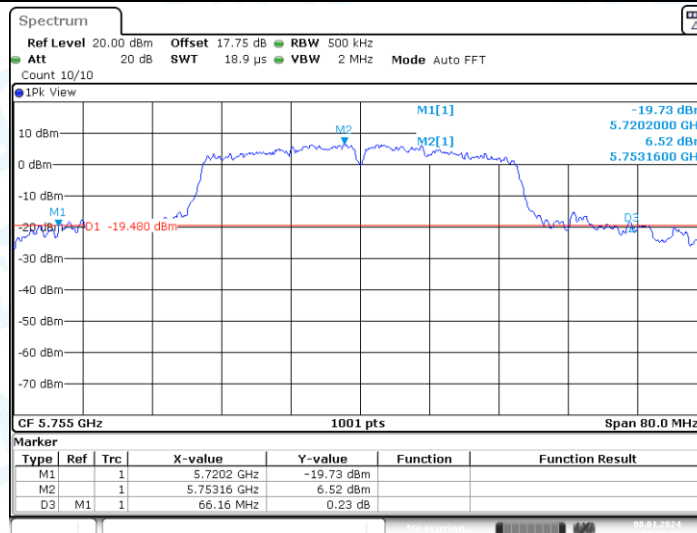
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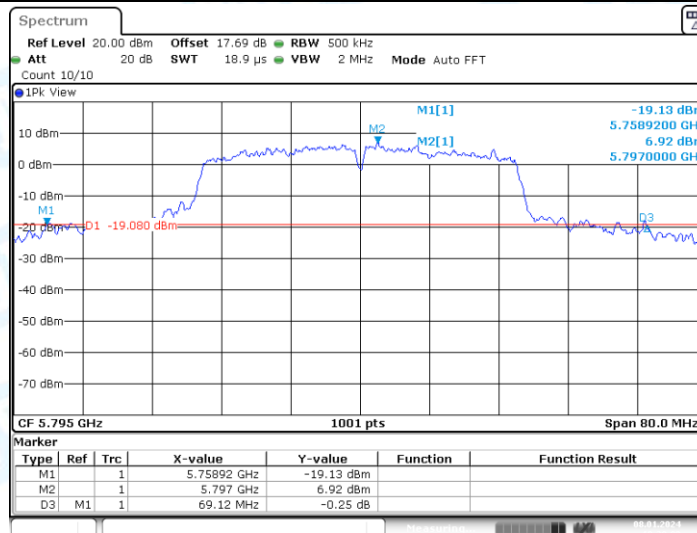
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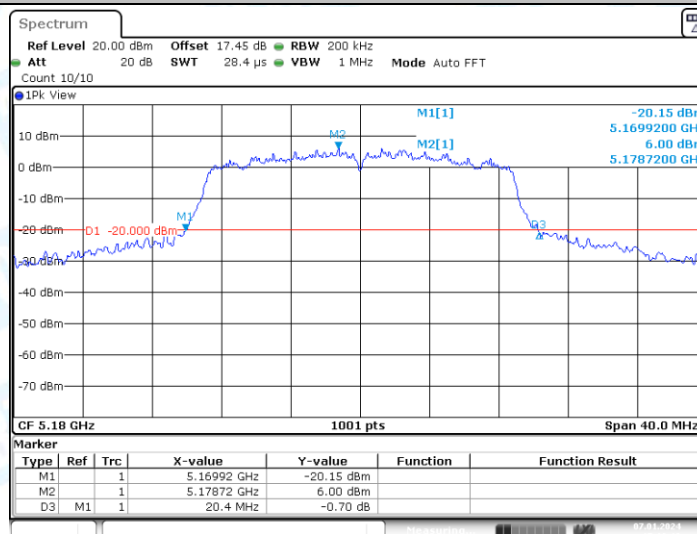
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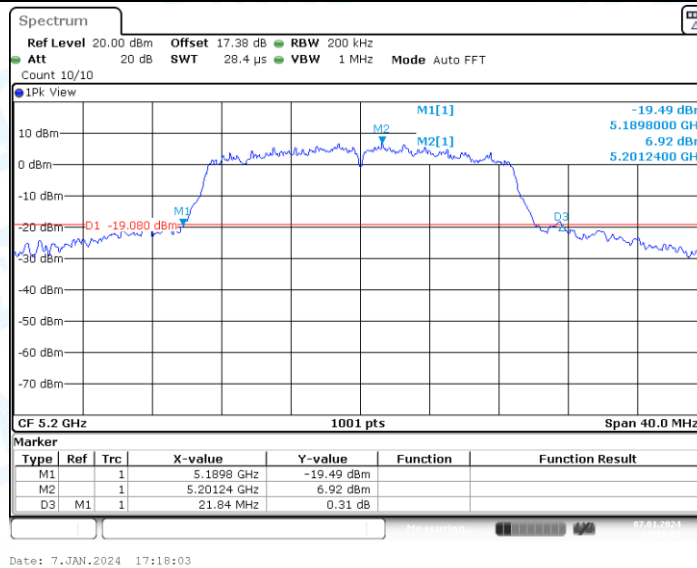
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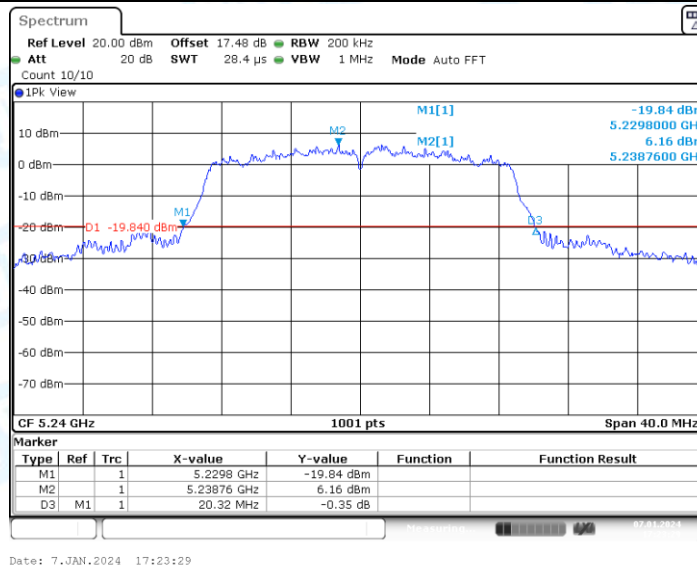


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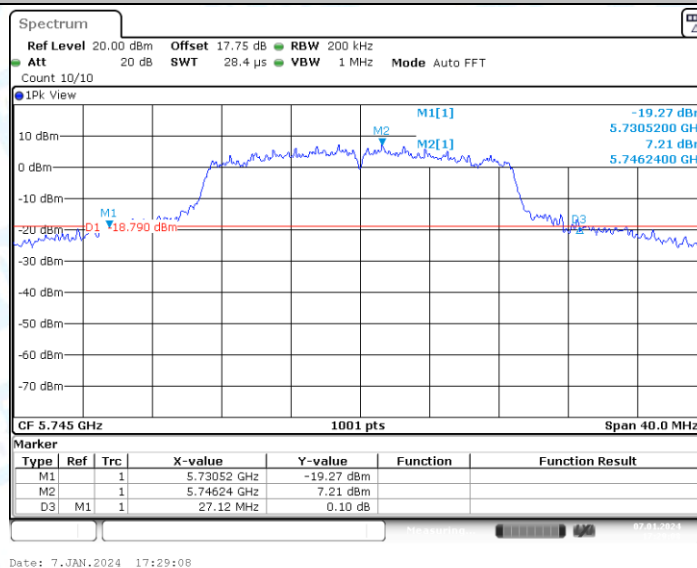
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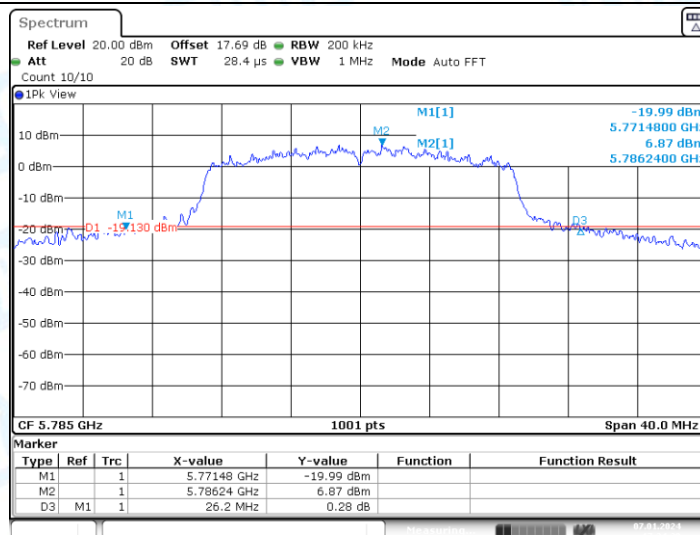
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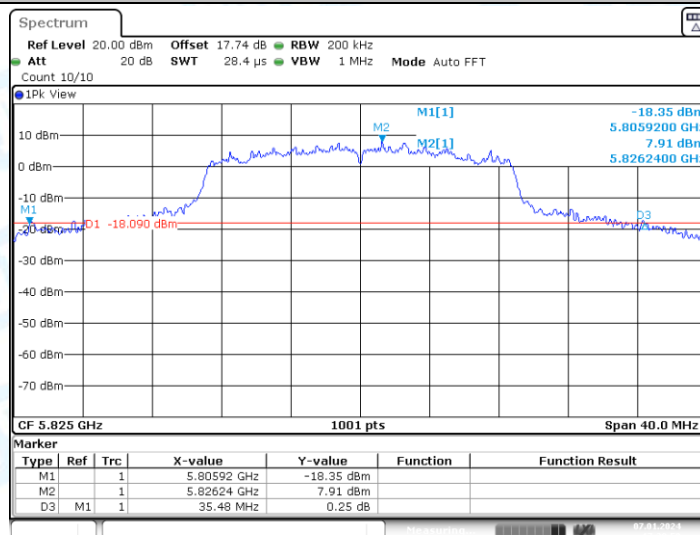


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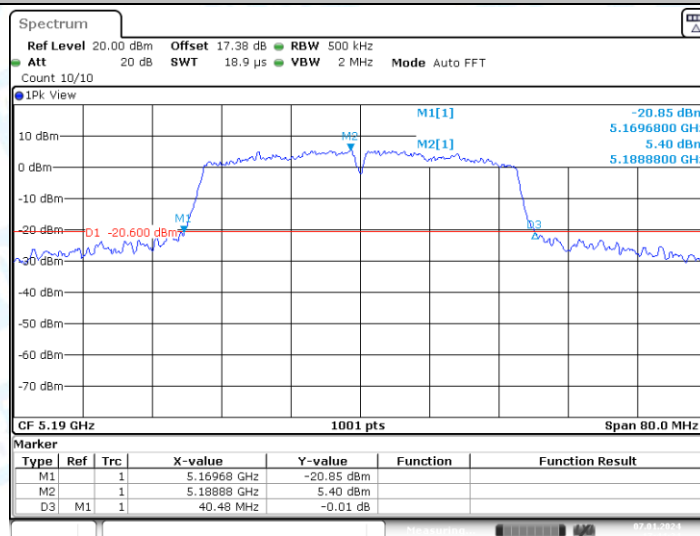
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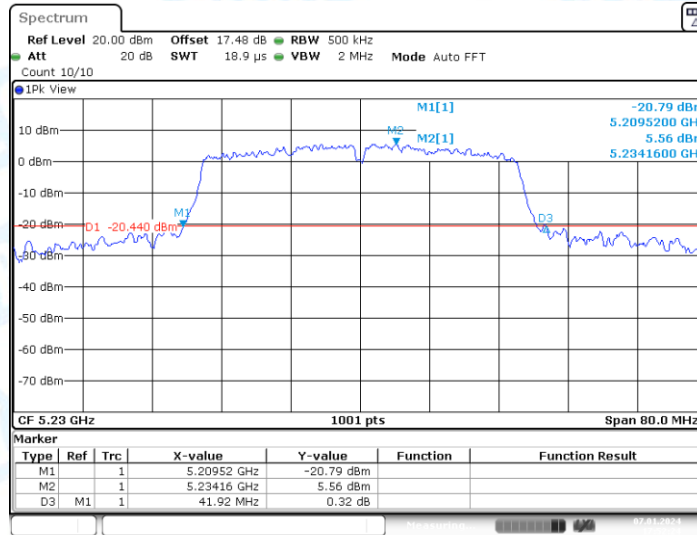
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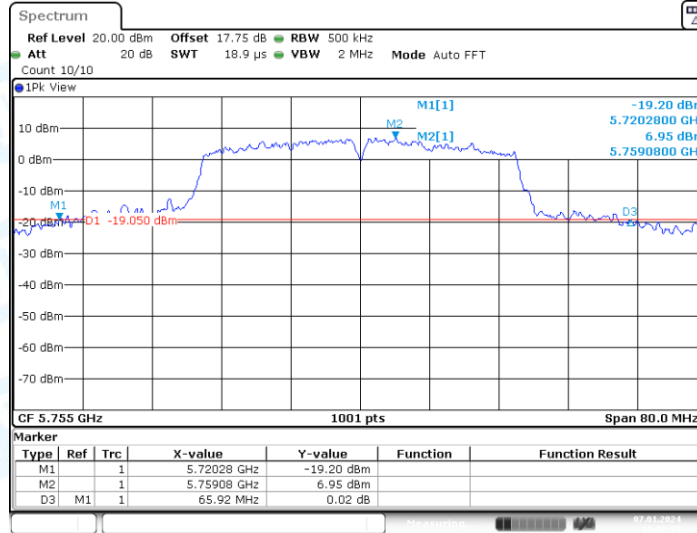
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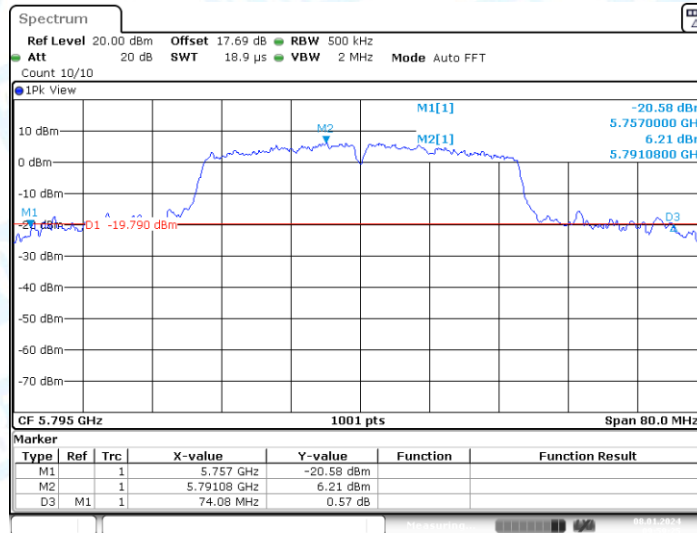
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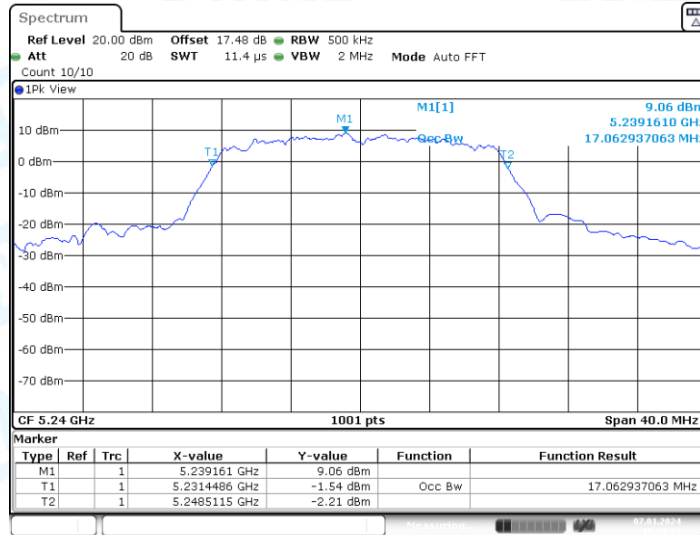
2. Occupied channel bandwidth

2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.582	5171.2088	5188.7912	---	---
		5200	16.943	5191.5684	5208.5115	---	---
		5240	17.063	5231.4486	5248.5115	---	---
		5745	17.822	5736.0090	5753.8312	---	---
		5785	17.622	5776.2488	5793.8711	---	---
		5825	17.383	5816.3287	5833.7113	---	---
11N20SISO	Ant1	5180	18.022	5170.8891	5188.9111	---	---
		5200	17.982	5190.9690	5208.9510	---	---
		5240	18.182	5230.9291	5249.1109	---	---
		5745	18.262	5735.8492	5754.1109	---	---
		5785	18.981	5775.1698	5794.1508	---	---
		5825	19.74	5814.8901	5834.6304	---	---
11N40SISO	Ant1	5190	36.603	5171.5385	5208.1419	---	---
		5230	36.204	5211.8581	5248.0619	---	---
		5755	36.923	5736.3786	5773.3017	---	---
		5795	36.523	5776.6184	5813.1419	---	---
11AC20SISO	Ant1	5180	17.862	5171.0889	5188.9510	---	---
		5200	18.222	5190.9690	5209.1908	---	---
		5240	17.982	5231.0090	5248.9910	---	---
		5745	18.661	5735.6094	5754.2707	---	---
		5785	18.382	5775.7293	5794.1109	---	---
		5825	19.261	5815.1698	5834.4306	---	---
11AC40SISO	Ant1	5190	36.204	5171.9381	5208.1419	---	---
		5230	36.523	5211.4585	5247.9820	---	---
		5755	37.083	5736.2188	5773.3017	---	---
		5795	36.843	5776.2987	5813.1419	---	---

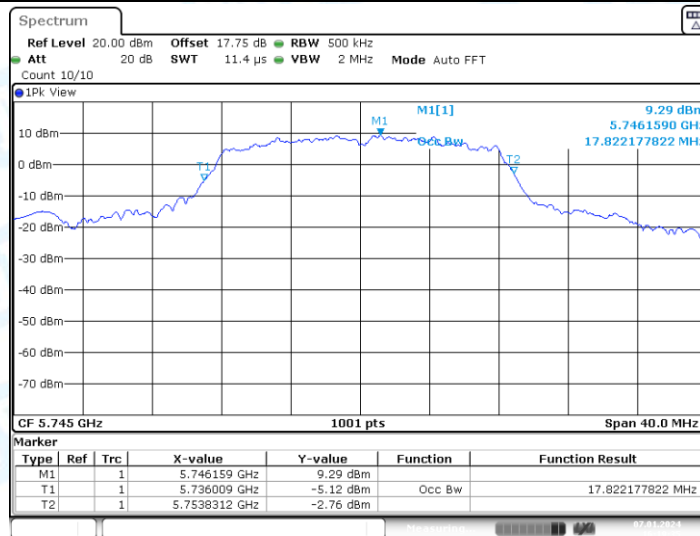
2.2. Test Graphs





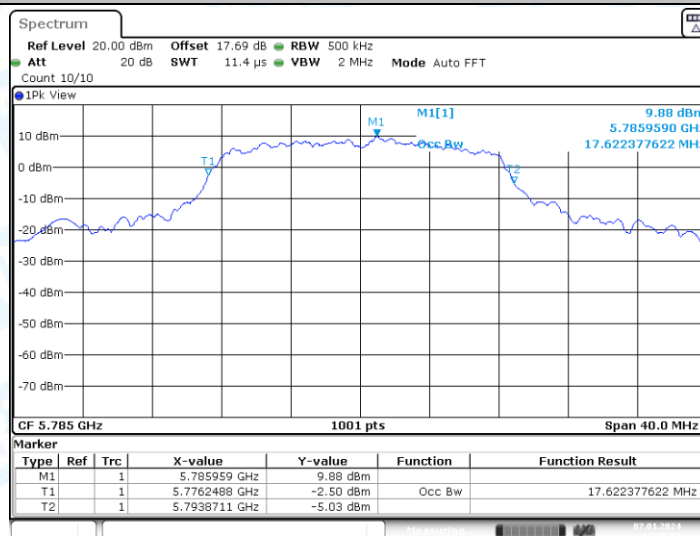
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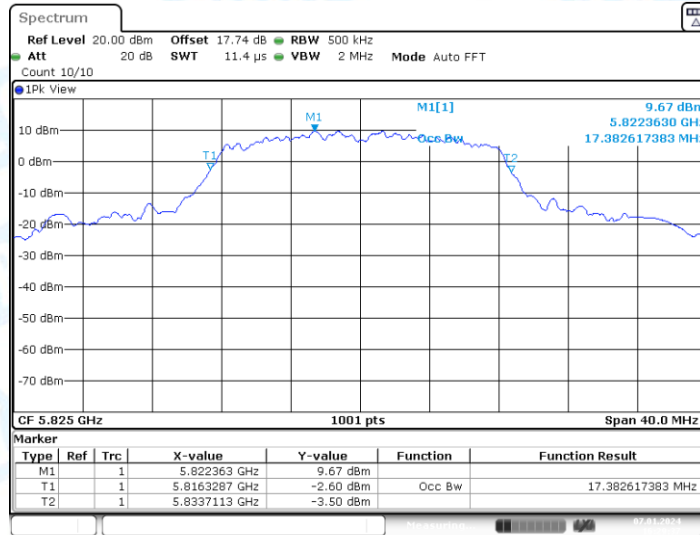
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11A_Ant1_5785



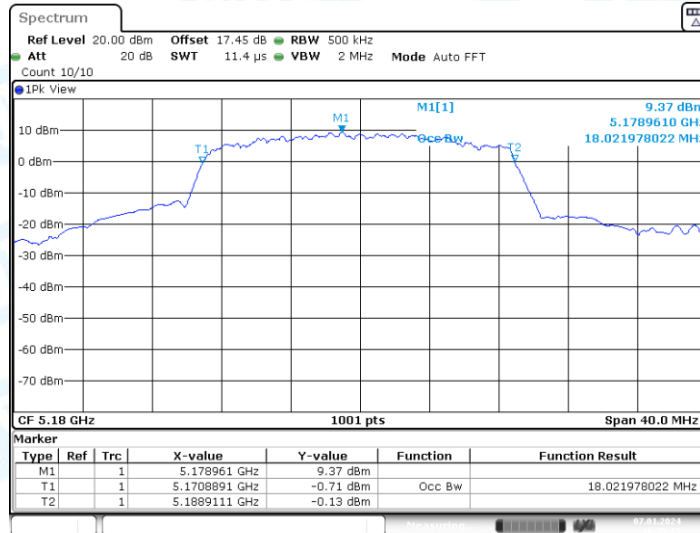
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11A_Ant1_5825



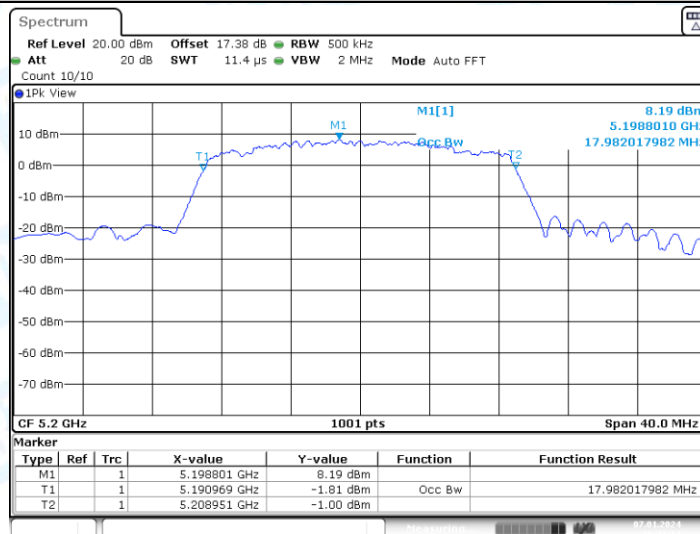
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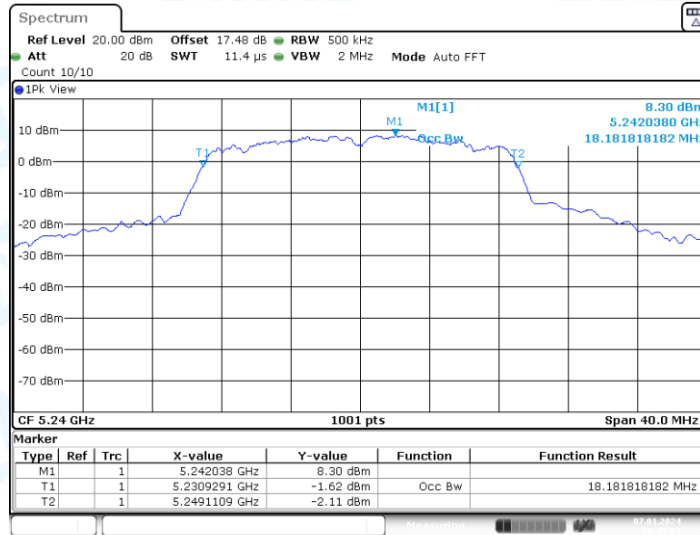
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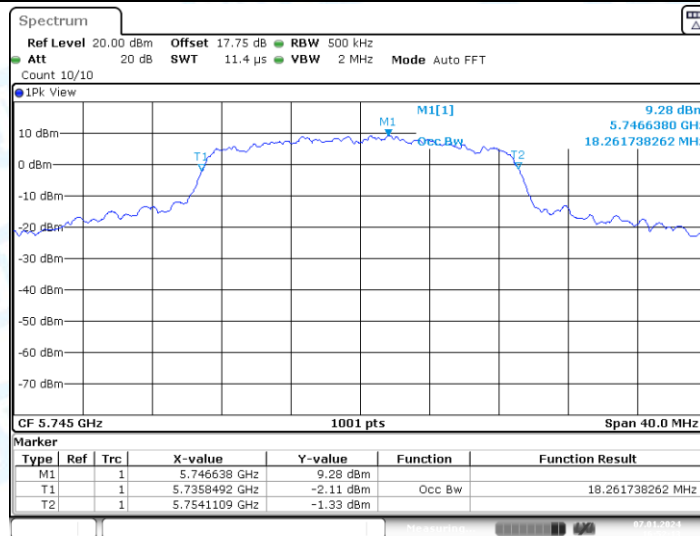
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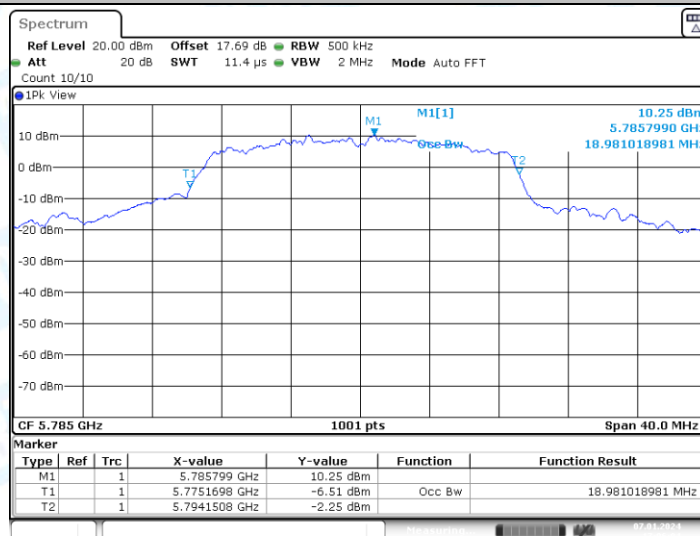
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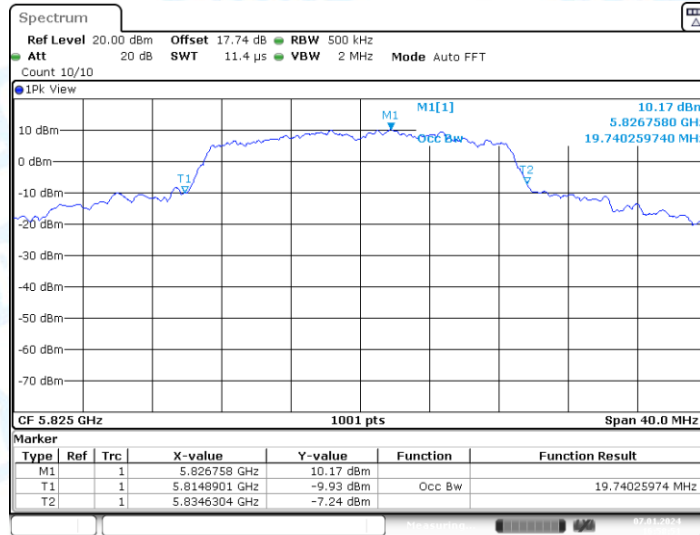
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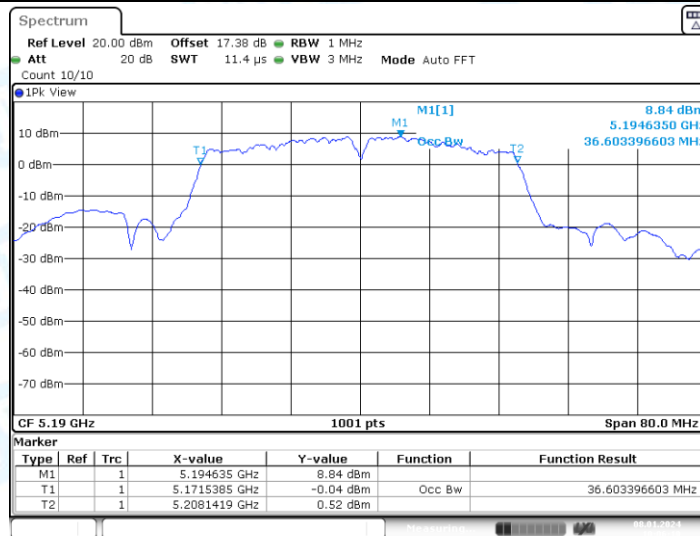


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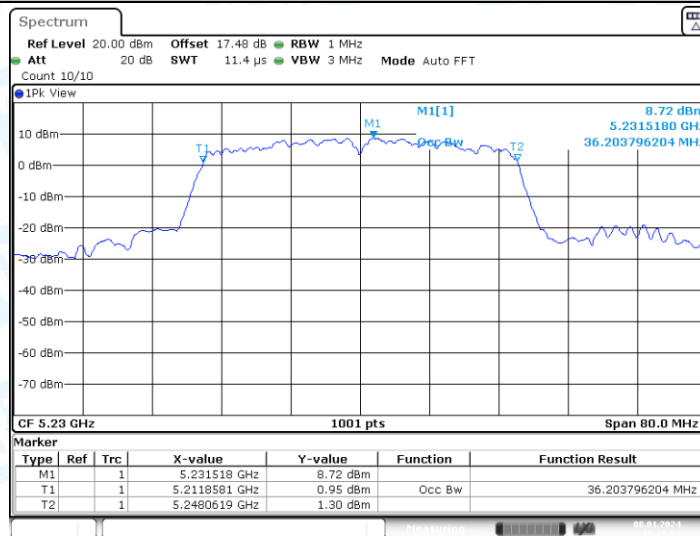
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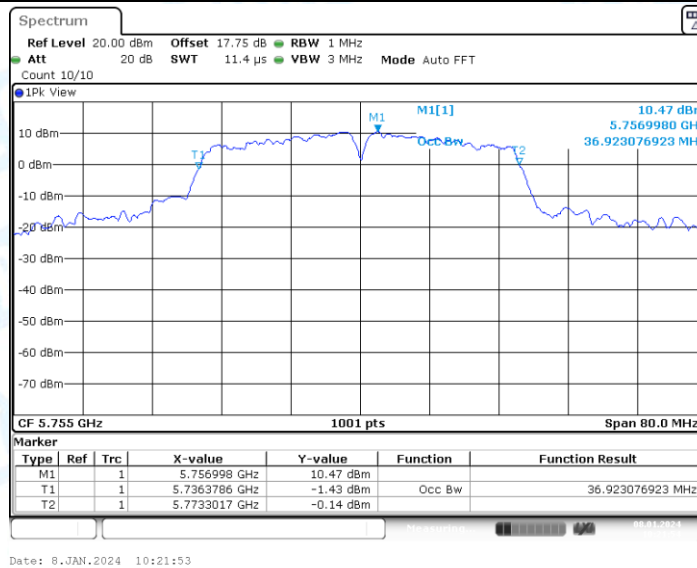
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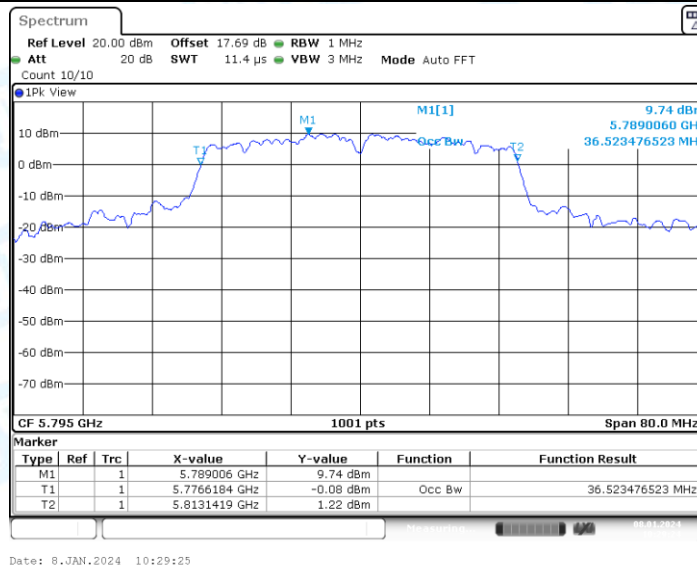
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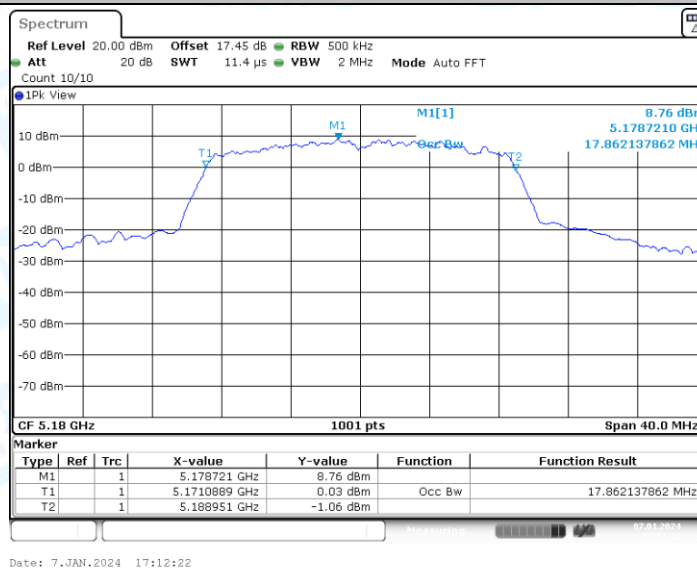
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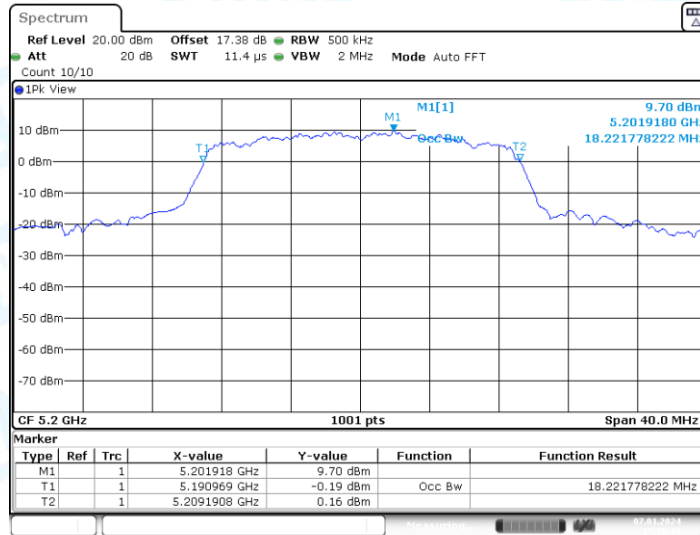
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11AC20SISO_Ant1_5180

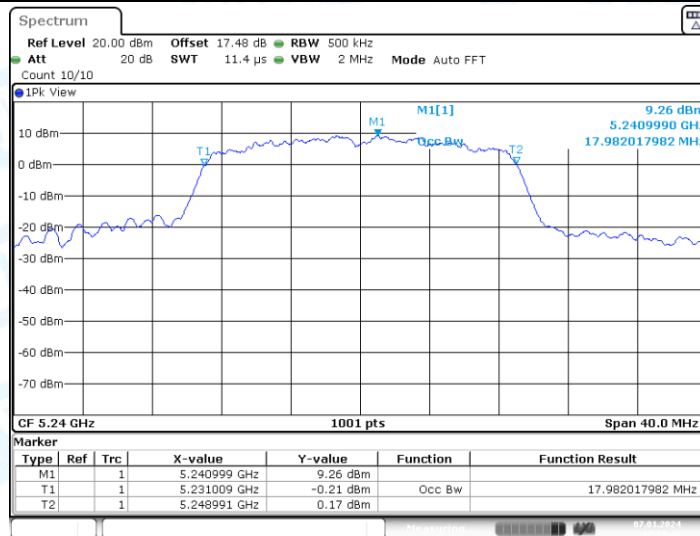


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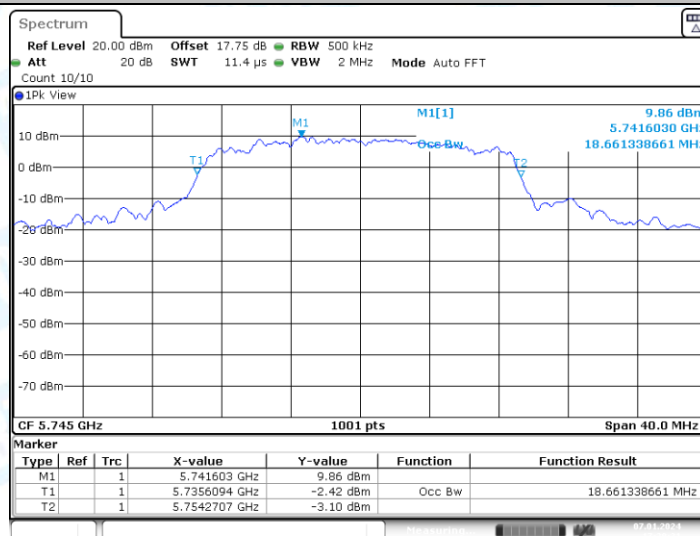
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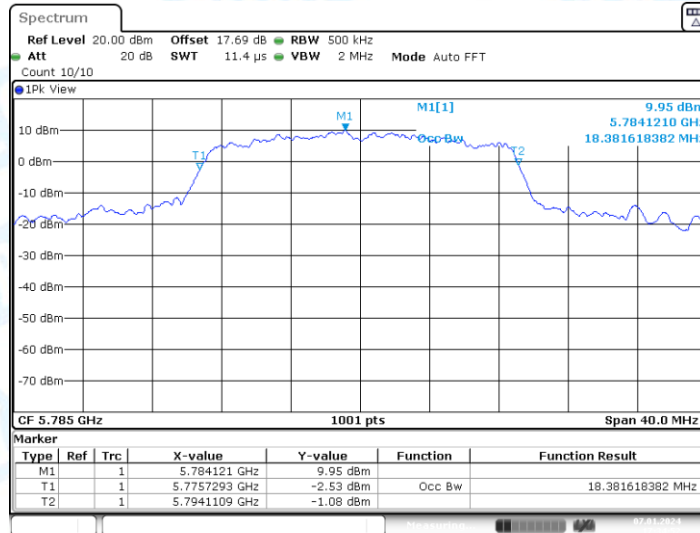
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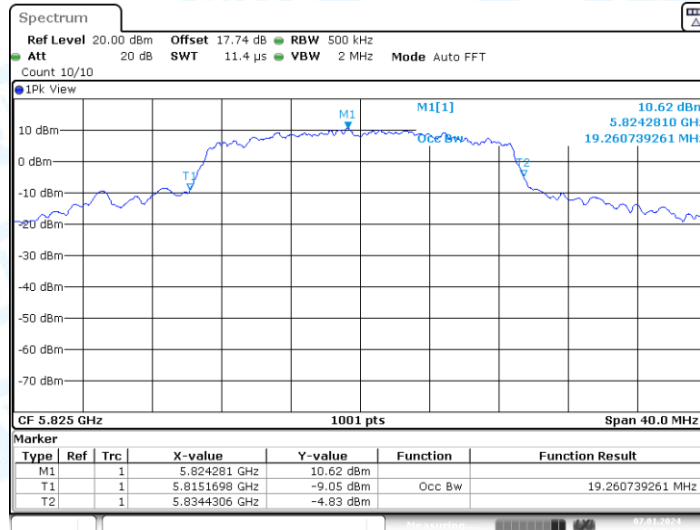
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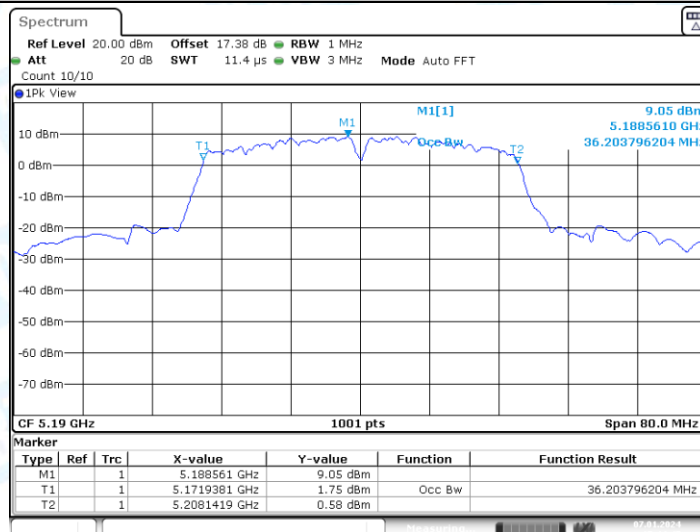
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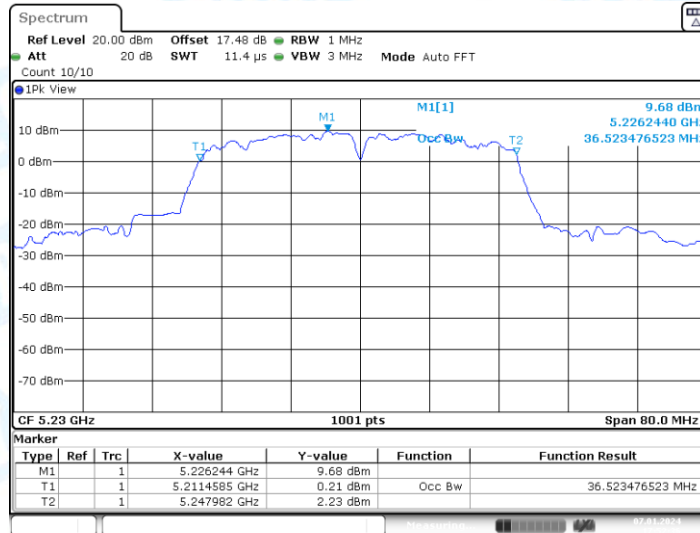
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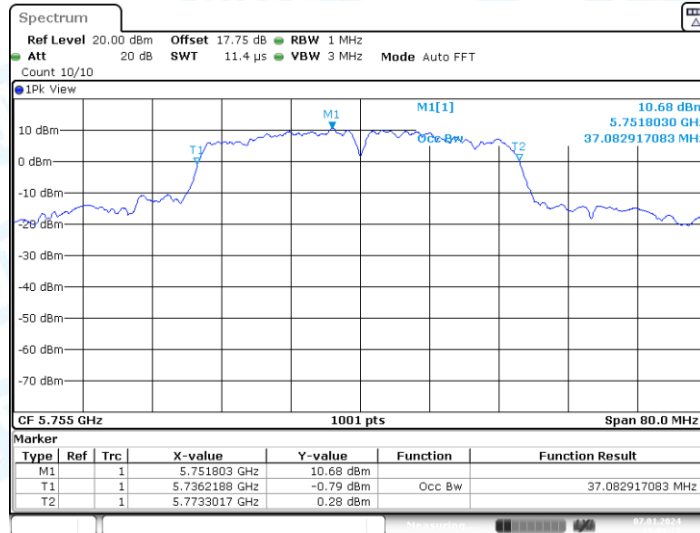
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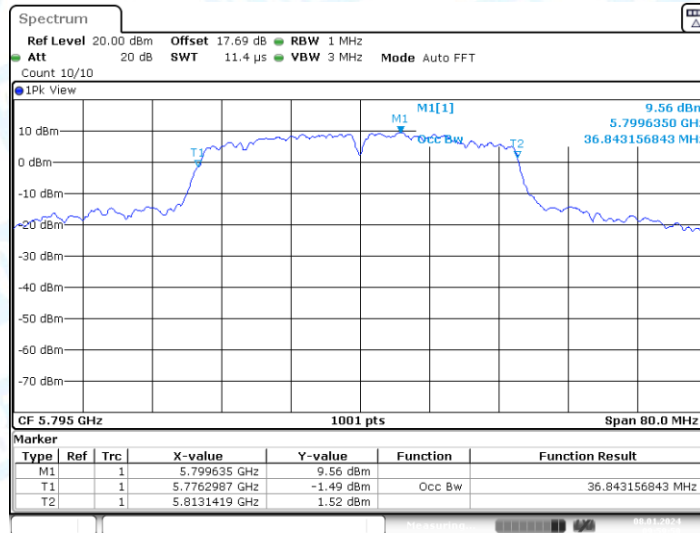
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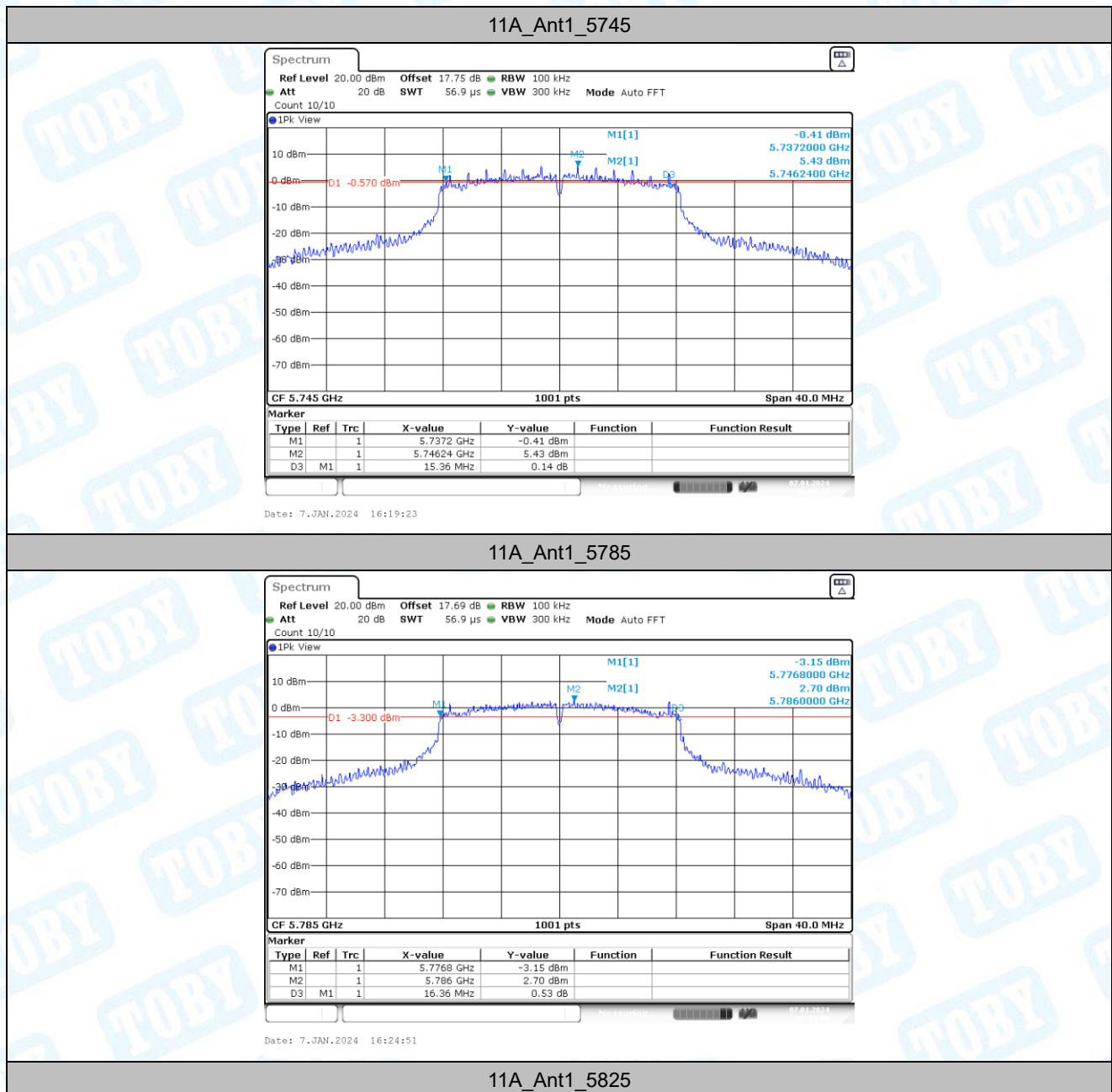
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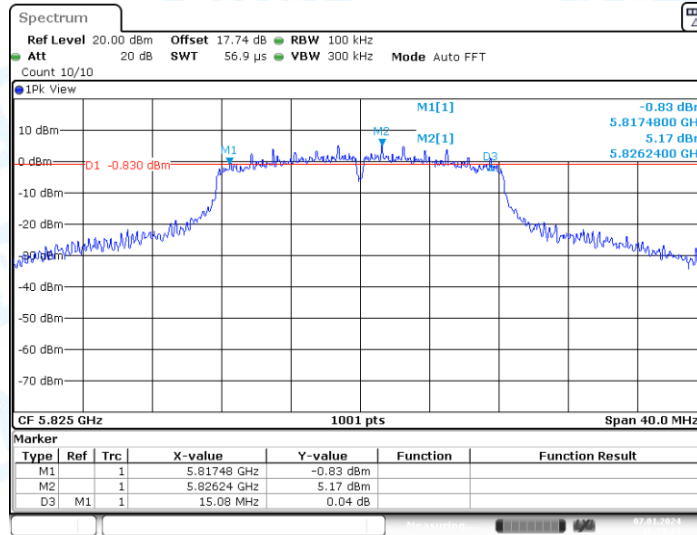
3. Min emission bandwidth

3.1. Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.36	5737.20	5752.56	0.5	PASS
		5785	16.36	5776.80	5793.16	0.5	PASS
		5825	15.08	5817.48	5832.56	0.5	PASS
11N20SISO	Ant1	5745	13.84	5738.68	5752.52	0.5	PASS
		5785	15.12	5777.44	5792.56	0.5	PASS
		5825	15.04	5817.44	5832.48	0.5	PASS
11N40SISO	Ant1	5755	32.64	5739.88	5772.52	0.5	PASS
		5795	35.12	5777.40	5812.52	0.5	PASS
11AC20SISO	Ant1	5745	15.44	5737.44	5752.88	0.5	PASS
		5785	16.40	5776.52	5792.92	0.5	PASS
		5825	15.08	5817.44	5832.52	0.5	PASS
11AC40SISO	Ant1	5755	35.12	5737.40	5772.52	0.5	PASS
		5795	35.12	5777.40	5812.52	0.5	PASS

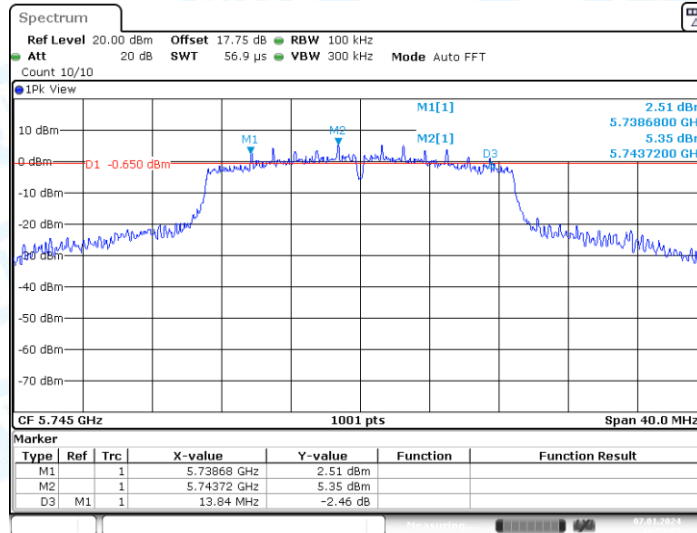
3.2. Test Graphs





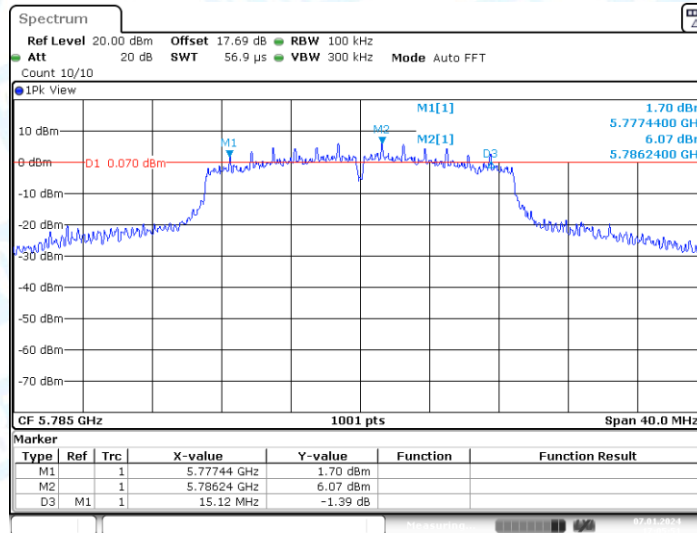
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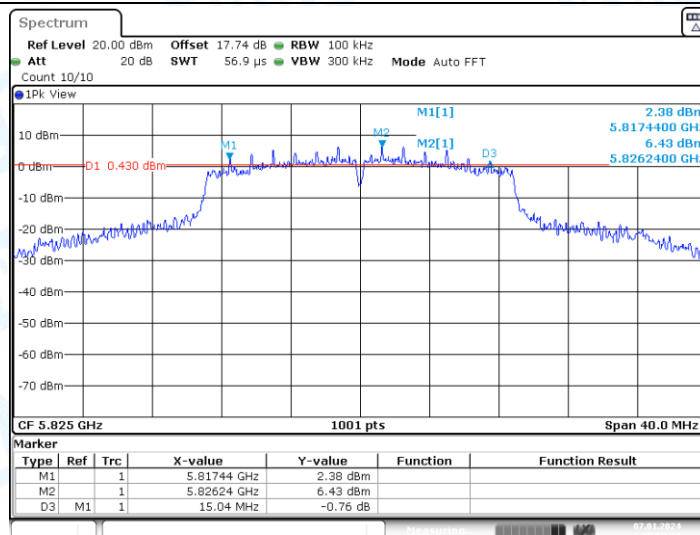
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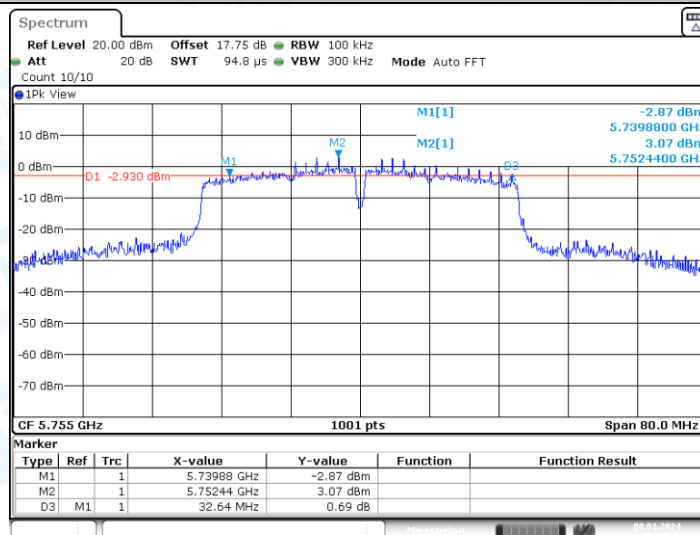
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11N20SISO_Ant1_5825



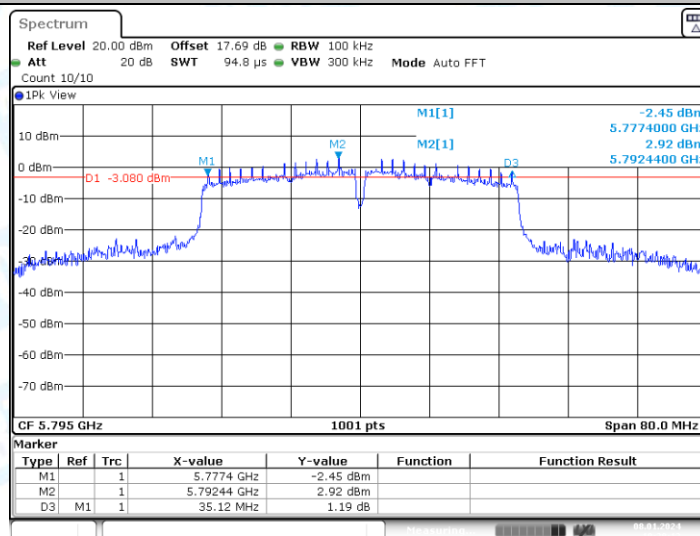
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11N40SISO_Ant1_5755



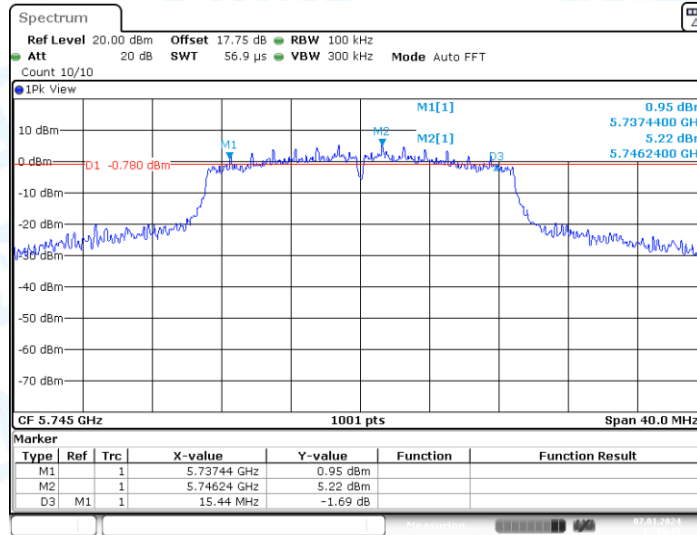
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11N40SISO_Ant1_5795



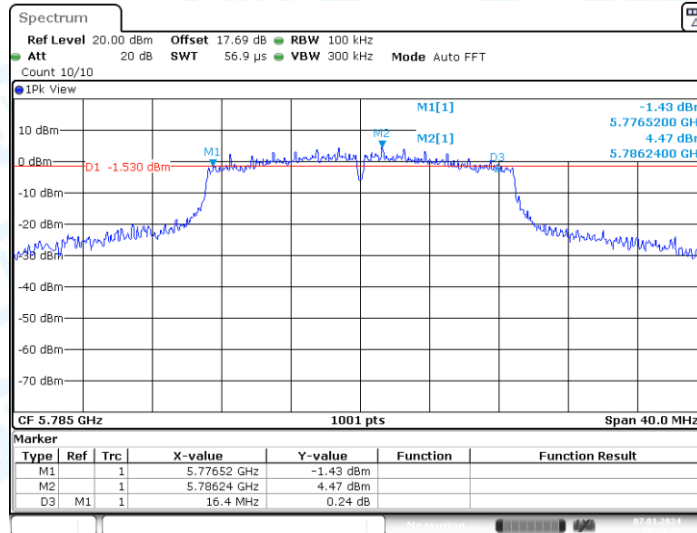
Date: 8.JAN.2024 10:29:12

11AC20SISO_Ant1_5745



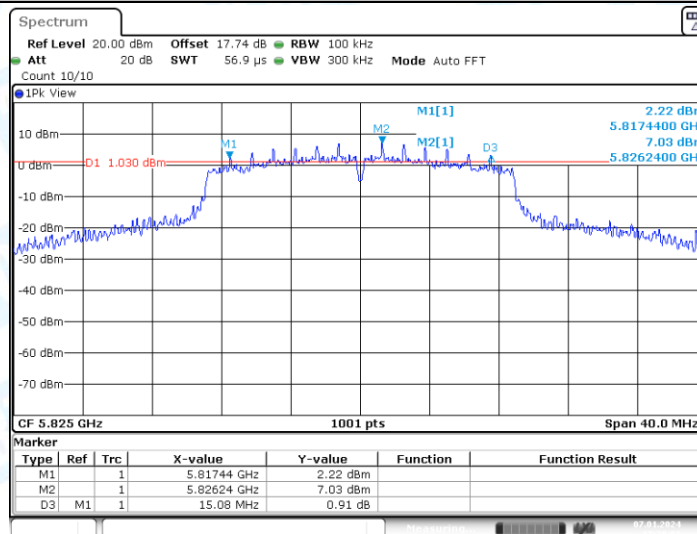
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11AC20SISO_Ant1_5785



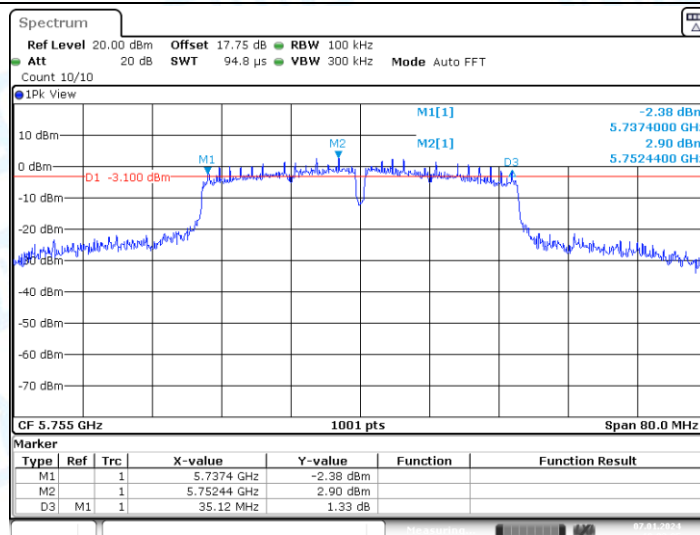
Date: 7.JAN.2024 17:34:39

11AC20SISO_Ant1_5825



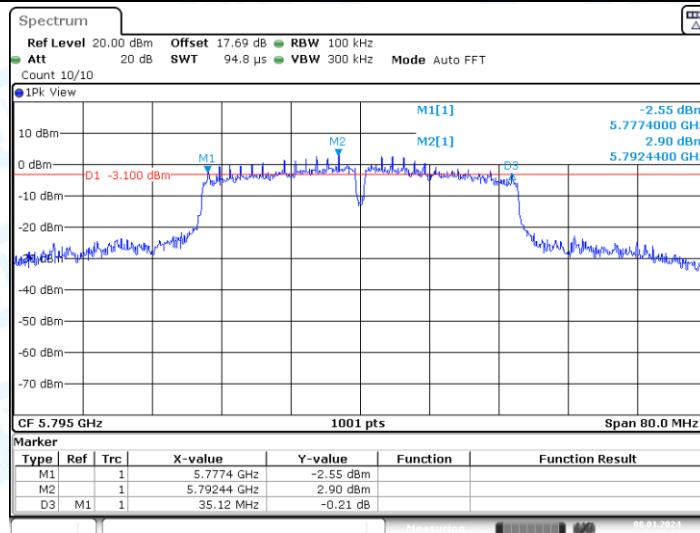
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11AC40SISO_Ant1_5755



Date: 7.JAN.2024 18:03:05

11AC40SISO_Ant1_5795



Date: 8.JAN.2024 09:59:37

4. Maximum conducted output power

4.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	14.87	≤23.98	PASS
		5200	14.29	≤23.98	PASS
		5240	14.70	≤23.98	PASS
		5745	15.18	≤30.00	PASS
		5785	15.06	≤30.00	PASS
		5825	15.29	≤30.00	PASS
11N20SISO	Ant1	5180	15.23	≤23.98	PASS
		5200	14.35	≤23.98	PASS
		5240	14.71	≤23.98	PASS
		5745	15.20	≤30.00	PASS
		5785	15.61	≤30.00	PASS
		5825	15.67	≤30.00	PASS
11N40SISO	Ant1	5190	13.40	≤23.98	PASS
		5230	14.63	≤23.98	PASS
		5755	15.34	≤30.00	PASS
		5795	15.34	≤30.00	PASS
11AC20SISO	Ant1	5180	14.74	≤23.98	PASS
		5200	14.77	≤23.98	PASS
		5240	15.20	≤23.98	PASS
		5745	15.56	≤30.00	PASS
		5785	15.56	≤30.00	PASS
		5825	16.25	≤30.00	PASS
11AC40SISO	Ant1	5190	13.87	≤23.98	PASS
		5230	15.06	≤23.98	PASS
		5755	15.85	≤30.00	PASS
		5795	15.39	≤30.00	PASS

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

5. Maximum power spectral density

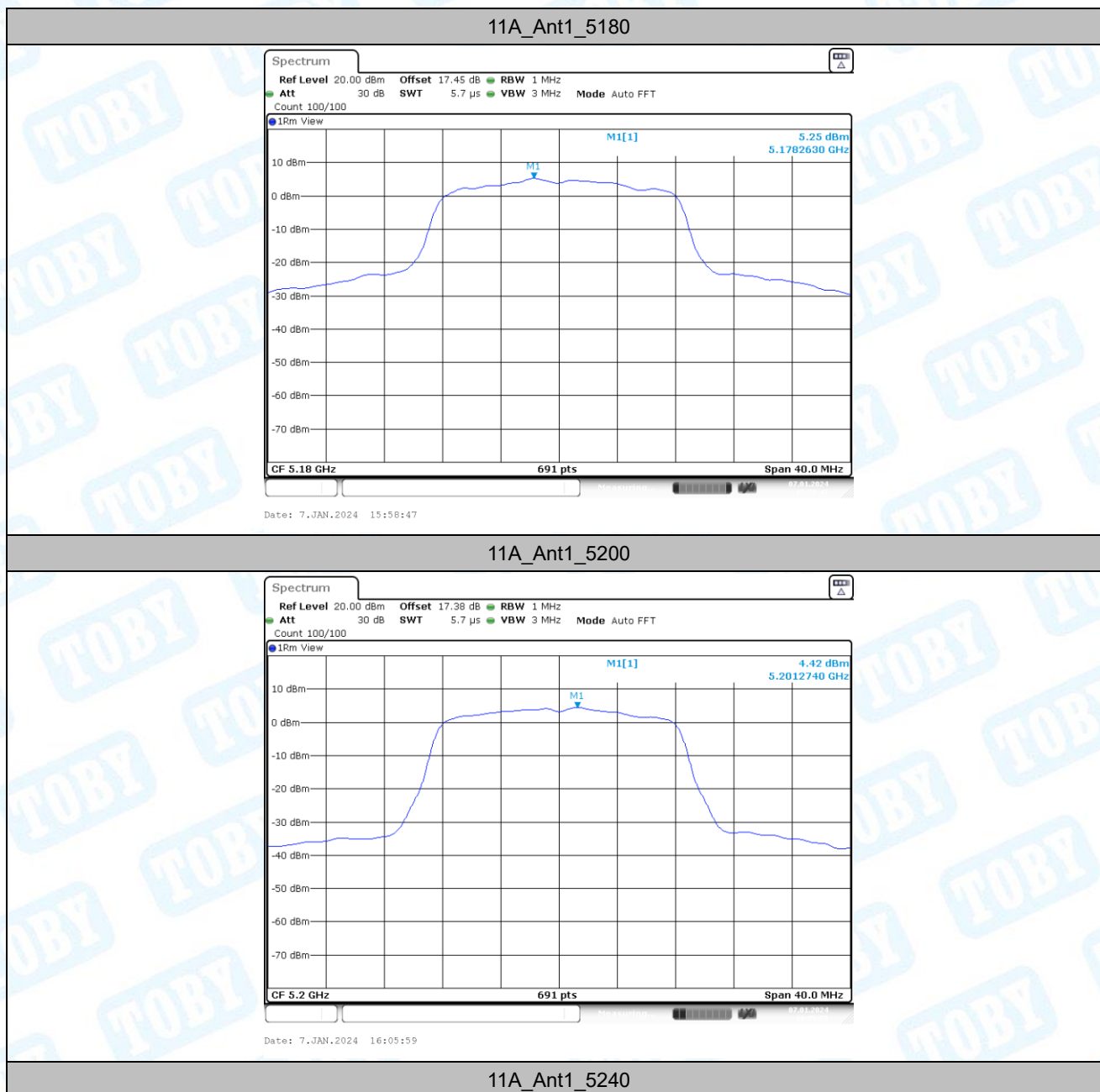
5.1. Test Result

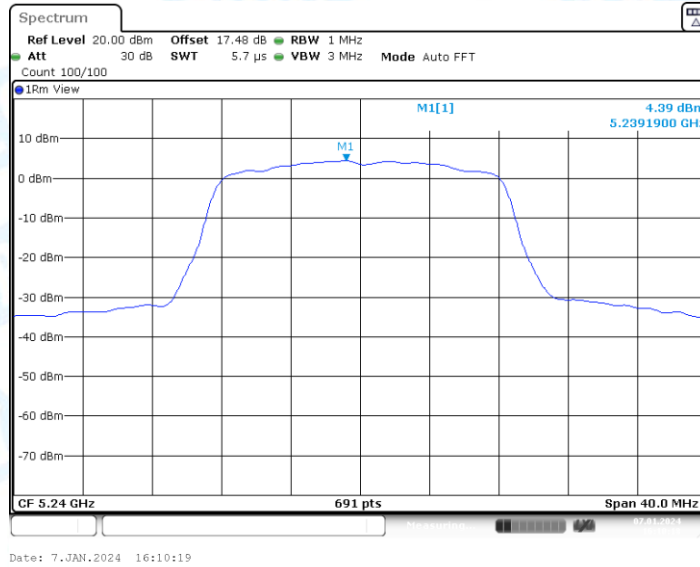
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	5.37	≤11.00	PASS
		5200	4.54	≤11.00	PASS
		5240	4.51	≤11.00	PASS
		5745	2.87	≤30.00	PASS
		5785	2.36	≤30.00	PASS
		5825	2.51	≤30.00	PASS
11N20SISO	Ant1	5180	5.26	≤11.00	PASS
		5200	4.51	≤11.00	PASS
		5240	4.73	≤11.00	PASS
		5745	2.69	≤30.00	PASS
		5785	2.68	≤30.00	PASS
		5825	3.25	≤30.00	PASS
11N40SISO	Ant1	5190	1.65	≤11.00	PASS
		5230	1.94	≤11.00	PASS
		5755	-0.27	≤30.00	PASS
		5795	-0.18	≤30.00	PASS
11AC20SISO	Ant1	5180	4.72	≤11.00	PASS
		5200	5.93	≤11.00	PASS
		5240	5.35	≤11.00	PASS
		5745	2.82	≤30.00	PASS
		5785	2.71	≤30.00	PASS
		5825	3.46	≤30.00	PASS
11AC40SISO	Ant1	5190	2.05	≤11.00	PASS
		5230	1.73	≤11.00	PASS
		5755	-0.05	≤30.00	PASS
		5795	-0.44	≤30.00	PASS

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

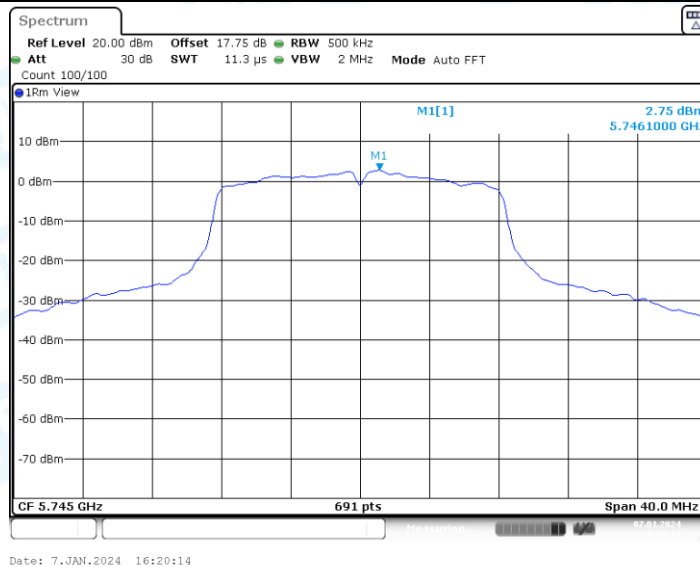
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

5.2. Test Graphs

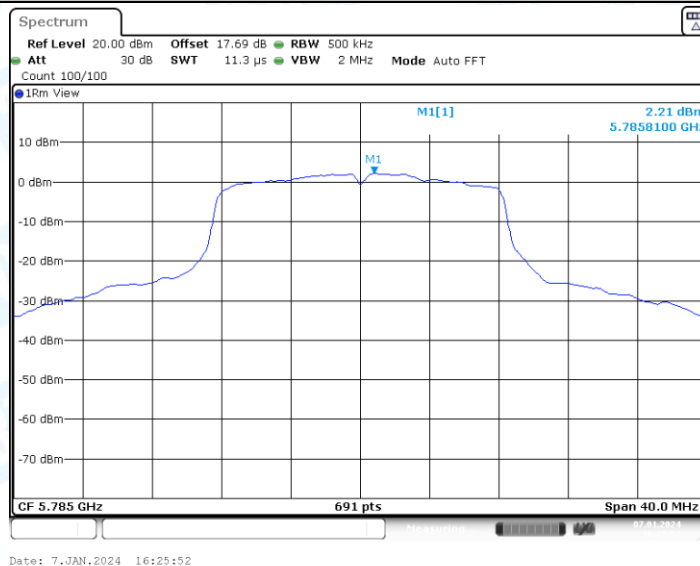




11A_Ant1_5745



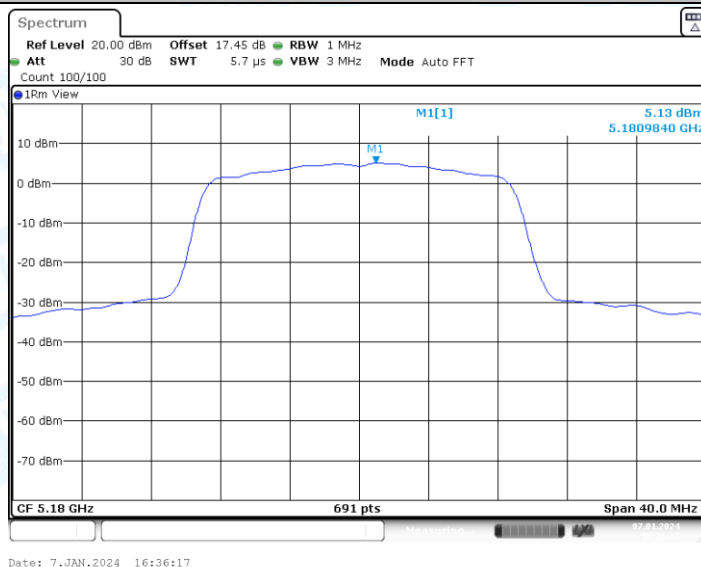
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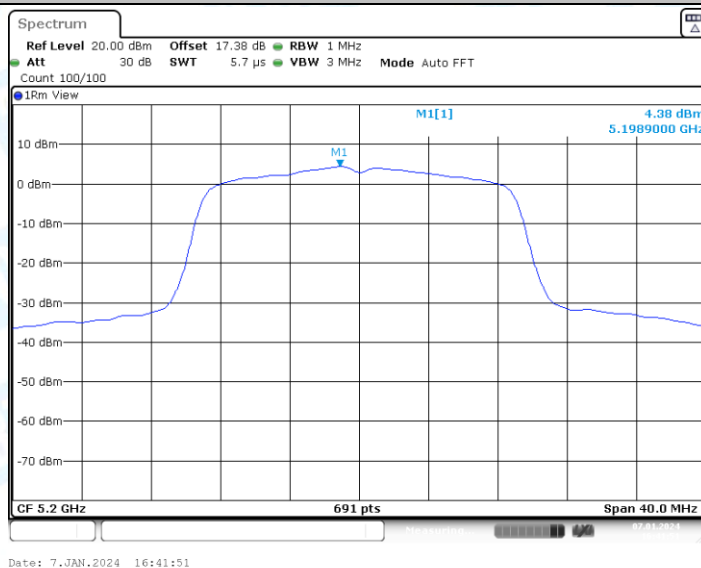
11A_Ant1_5825



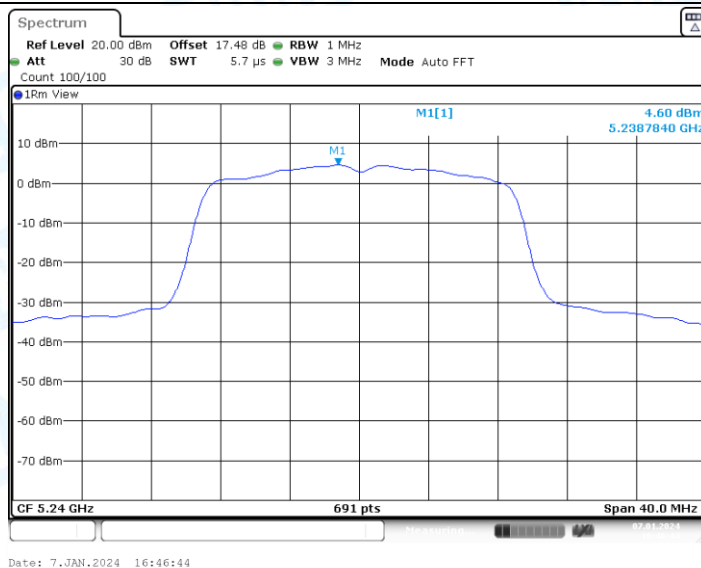
11N20SISO_Ant1_5180



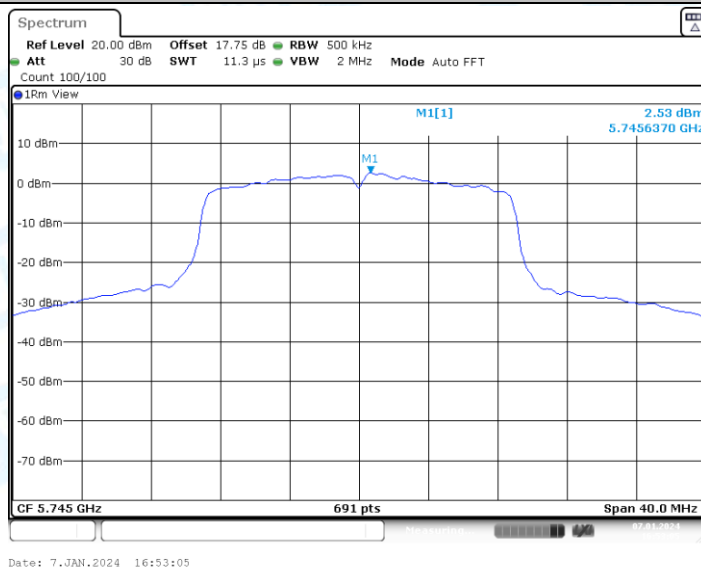
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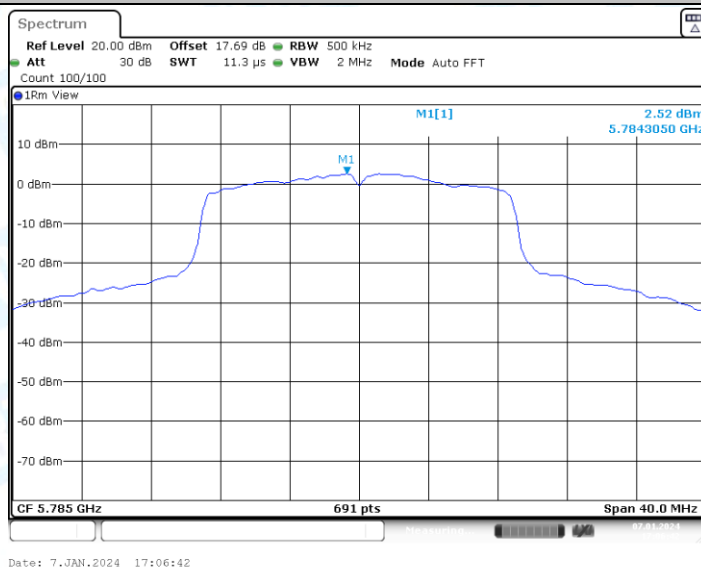
11N20SISO_Ant1_5240



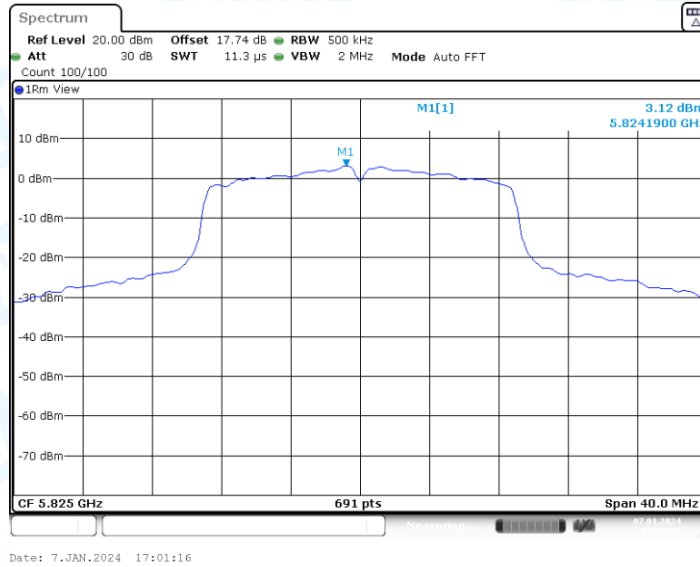
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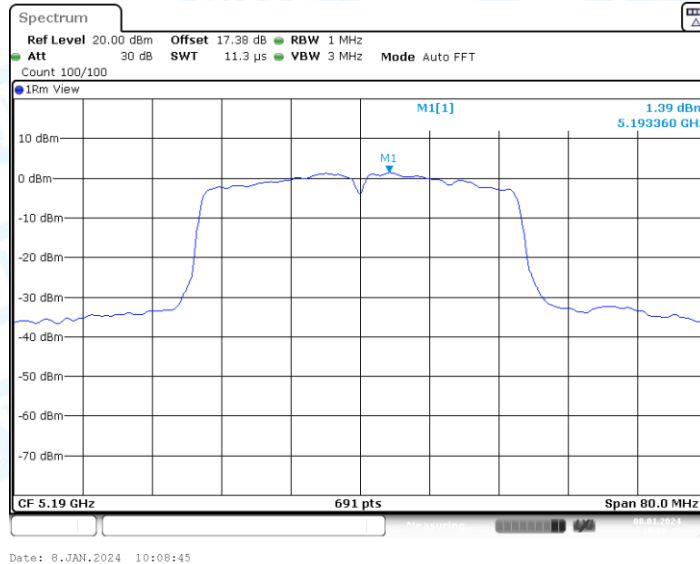
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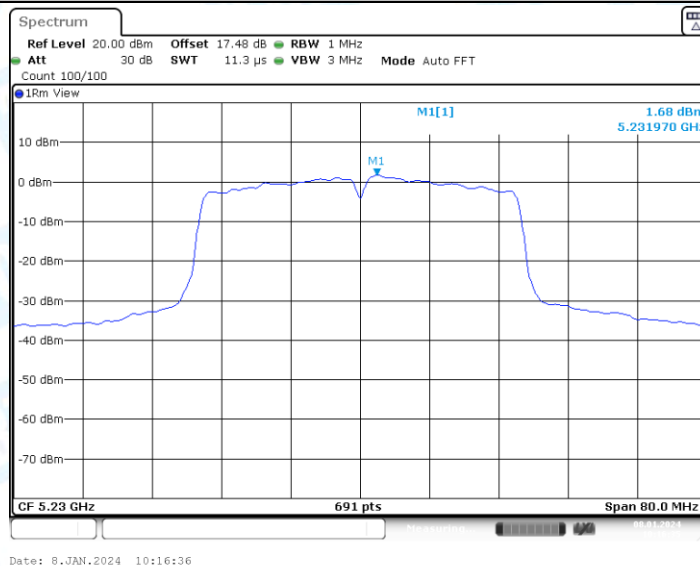
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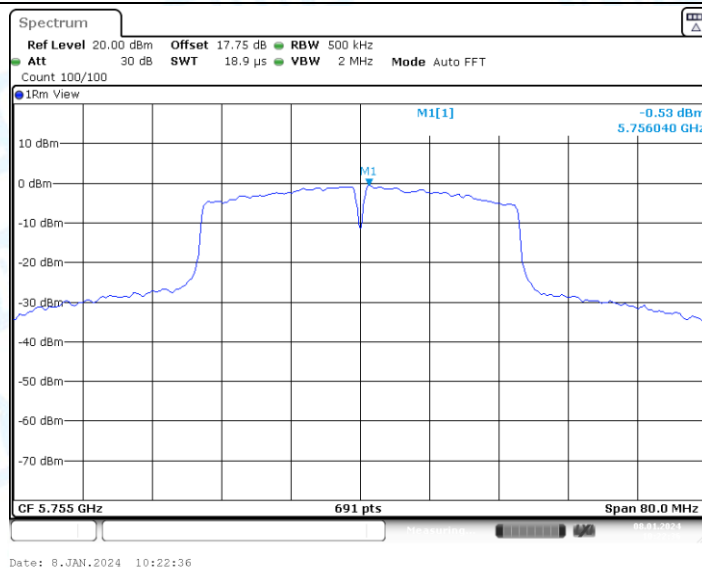
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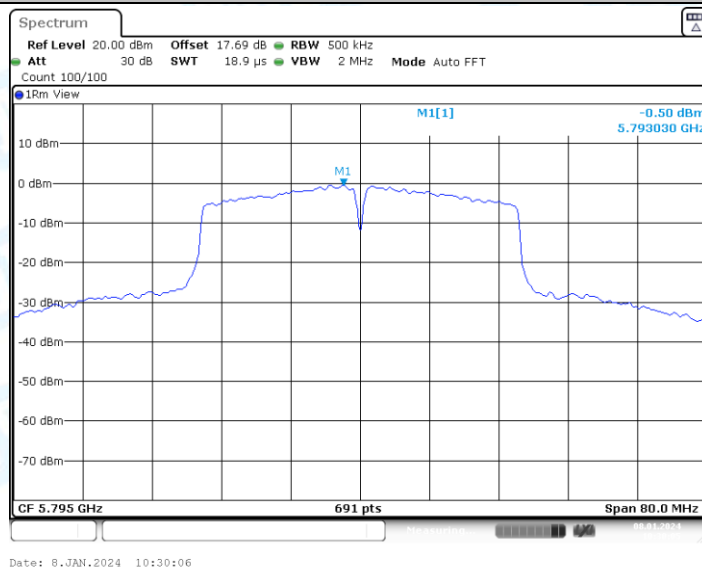
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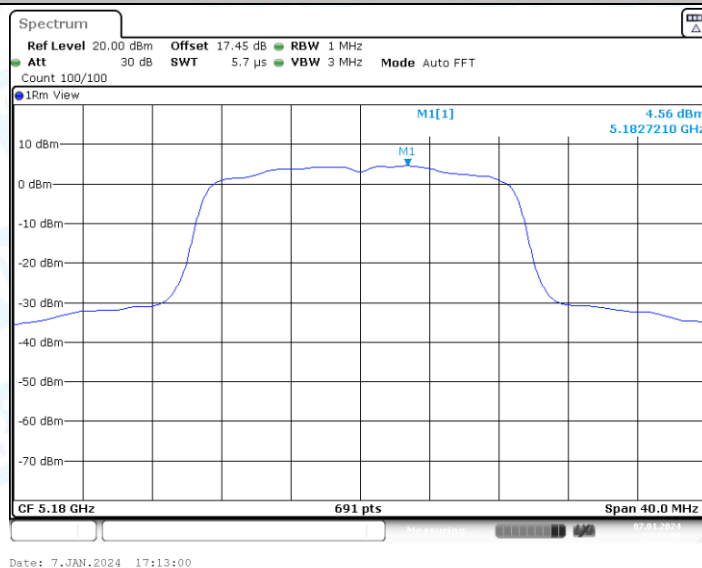
11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200