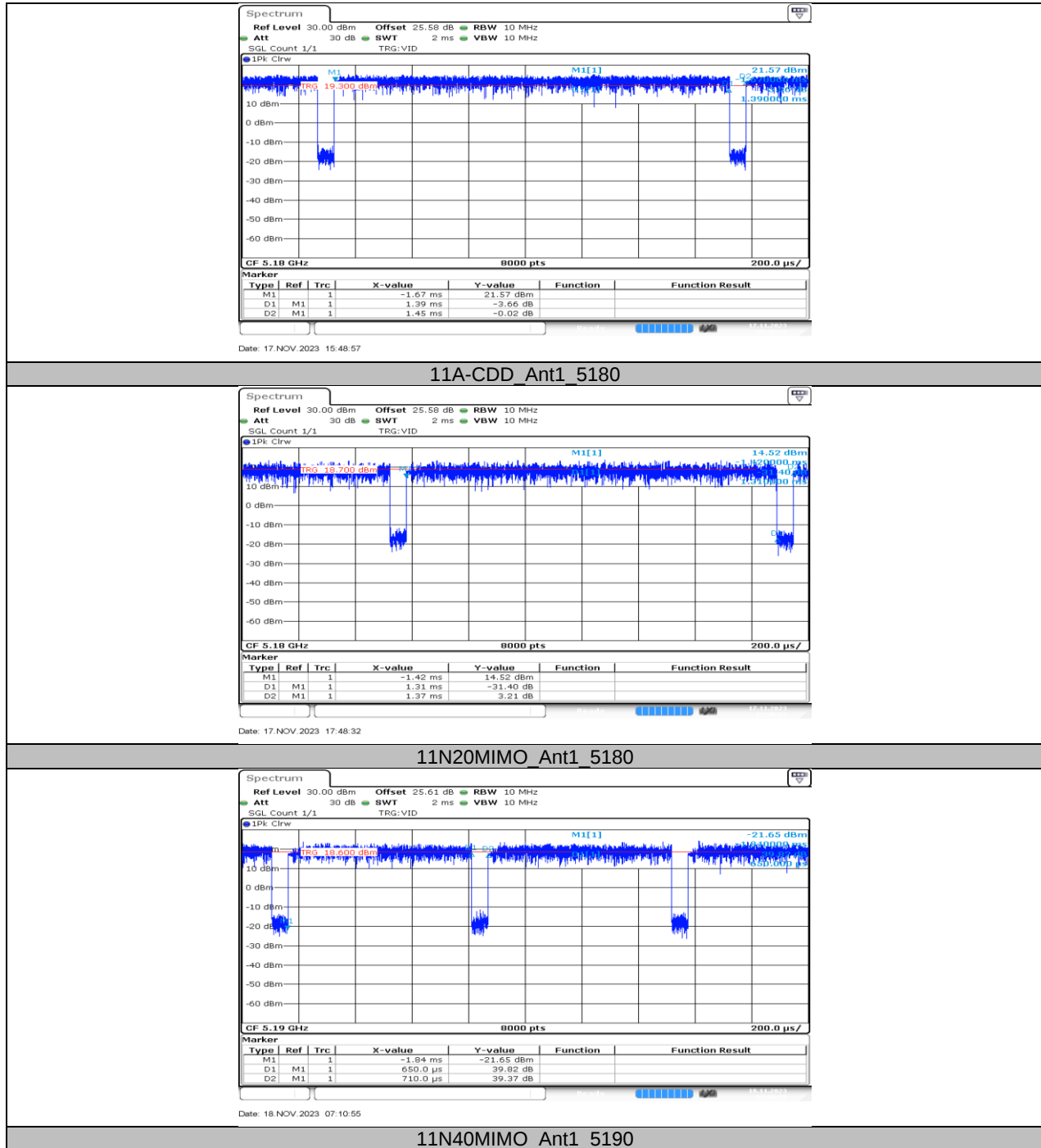
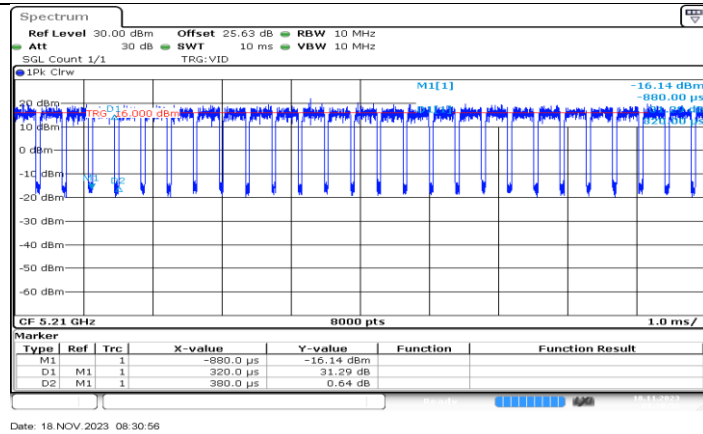
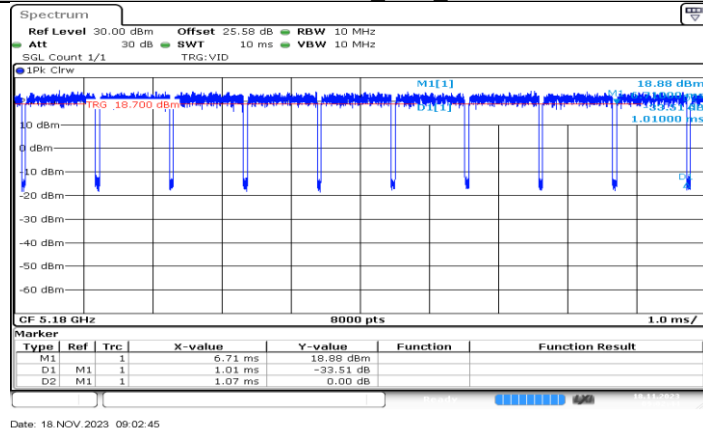


11.6.2. Test Graphs

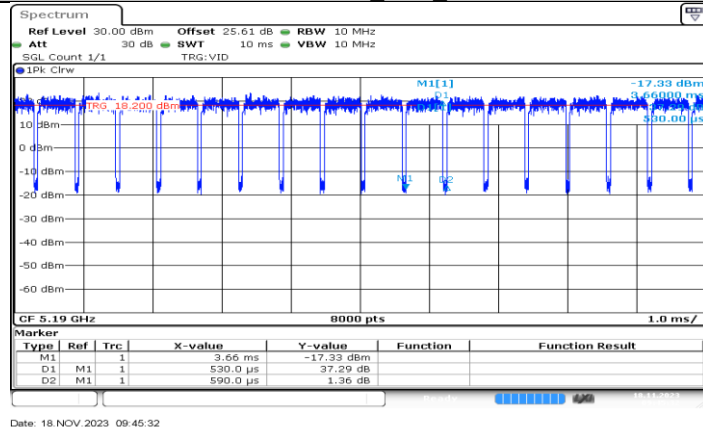




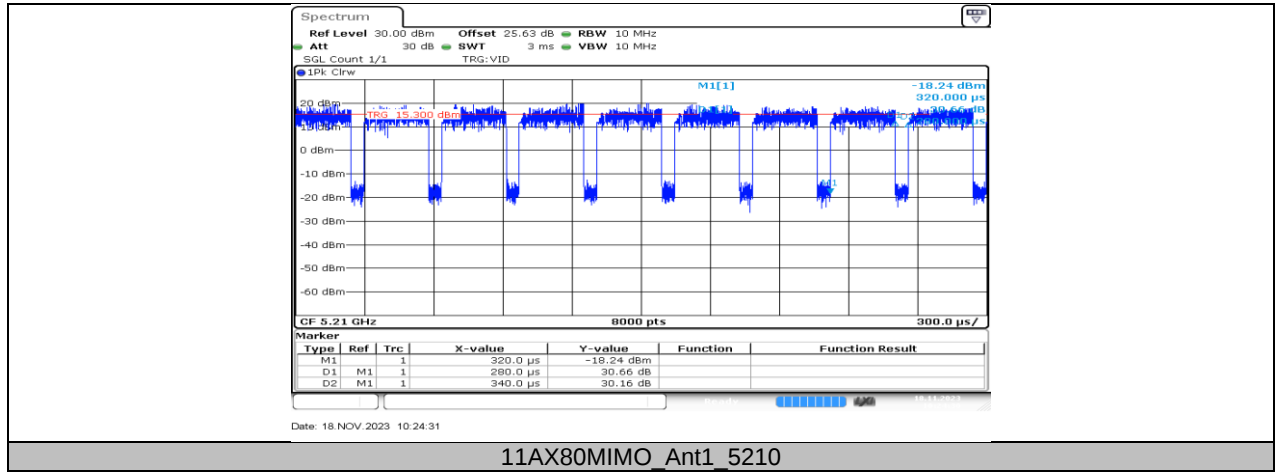
11AC80MIMO_Ant1_5210



11AX20MIMO_Ant1_5180



11AX40MIMO_Ant1_5190



11.7. APPENDIX E1: FREQUENCY STABILITY

11.7.1. Test Result

Frequency Error vs. Voltage									
802.11a:5200MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5199.9905	-1.82	5200.0169	3.26	5200.0180	3.46	5200.0061	1.16
TN	VN	5199.9956	-0.85	5200.0020	0.38	5199.9916	-1.61	5199.9846	-2.97
TN	VH	5200.0038	0.74	5199.9891	-2.10	5200.0106	2.04	5200.0079	1.51
Frequency Error vs. Temperature									
802.11a:5200MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
40	VN	5200.0122	2.35	5199.9835	-3.17	5200.0194	3.73	5199.9839	-3.09
30	VN	5200.0181	3.48	5200.0124	2.38	5199.9992	-0.15	5200.0029	0.56
20	VN	5200.0099	1.90	5200.0079	1.51	5199.9754	-4.73	5199.9750	-4.81
10	VN	5200.0102	1.96	5199.9763	-4.55	5200.0011	0.22	5199.9772	-4.38
0	VN	5200.0064	1.22	5200.0214	4.11	5200.0135	2.59	5200.0230	4.43

Note:

1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

12. FCC Test Data:

12.1. APPENDIX A4: EMISSION BANDWIDTH

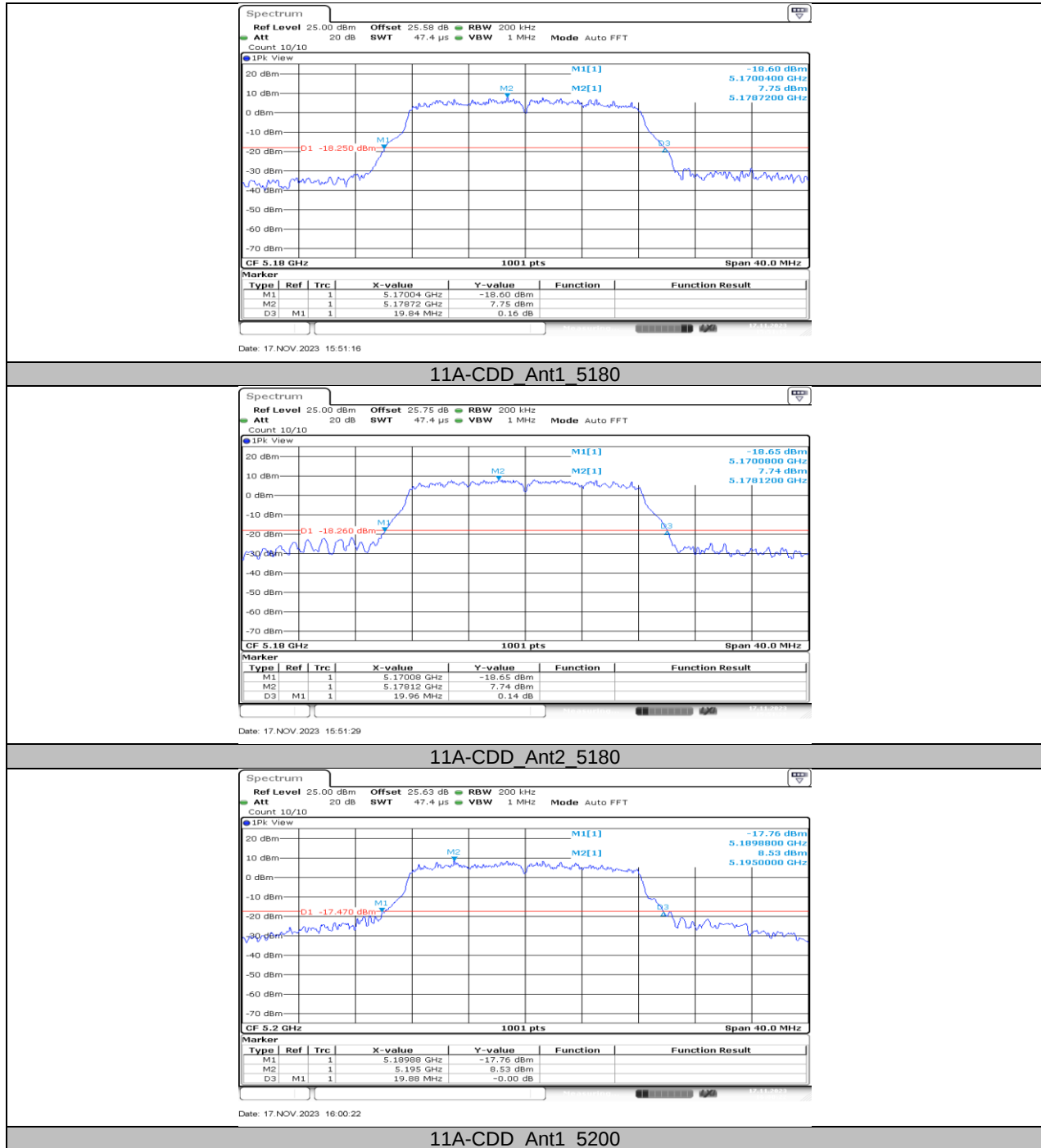
12.1.1. Test Result

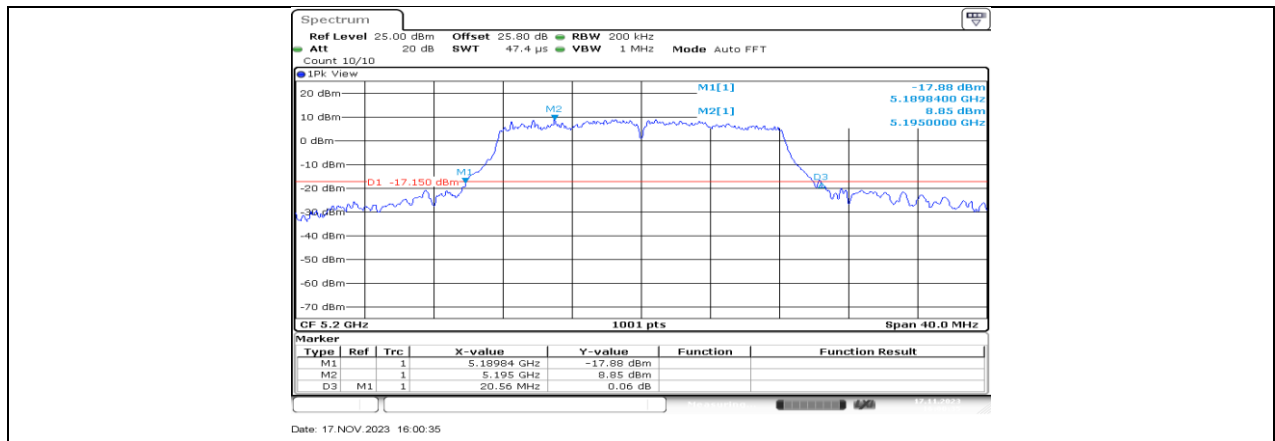
Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11A-CDD	Ant1	5180	19.84	5170.04	5189.88	PASS
	Ant2	5180	19.96	5170.08	5190.04	PASS
	Ant1	5200	19.88	5189.88	5209.76	PASS
	Ant2	5200	20.56	5189.84	5210.40	PASS
	Ant1	5240	20.36	5229.80	5250.16	PASS
	Ant2	5240	19.36	5230.24	5249.60	PASS
	Ant1	5260	19.80	5250.12	5269.92	PASS
	Ant2	5260	19.92	5250.04	5269.96	PASS
	Ant1	5280	19.92	5270.08	5290.00	PASS
	Ant2	5280	19.68	5270.16	5289.84	PASS
	Ant1	5320	19.96	5310.00	5329.96	PASS
	Ant2	5320	19.60	5310.12	5329.72	PASS
	Ant1	5500	19.48	5490.24	5509.72	PASS
	Ant2	5500	19.72	5490.08	5509.80	PASS
	Ant1	5580	20.24	5569.72	5589.96	PASS
	Ant2	5580	20.00	5569.88	5589.88	PASS
	Ant1	5700	19.72	5690.12	5709.84	PASS
	Ant2	5700	19.68	5690.08	5709.76	PASS
	Ant1	5720	20.16	5709.80	5729.96	PASS
	Ant2	5720	20.28	5709.80	5730.08	PASS
	Ant1	5720 UNII-2C	15.20	5709.80	5725	PASS
	Ant2	5720 UNII-2C	15.20	5709.80	5725	PASS
	Ant1	5720 UNII-3	4.96	5725	5729.96	PASS
	Ant2	5720 UNII-3	5.08	5725	5730.08	PASS
	Ant1	5745	20.04	5735.00	5755.04	PASS
	Ant2	5745	23.28	5734.08	5757.36	PASS
	Ant1	5785	19.84	5775.08	5794.92	PASS
	Ant2	5785	20.28	5774.88	5795.16	PASS
	Ant1	5825	20.00	5815.00	5835.00	PASS
	Ant2	5825	20.16	5814.92	5835.08	PASS
11N20MIMO	Ant1	5180	20.24	5169.80	5190.04	PASS
	Ant2	5180	20.00	5170.00	5190.00	PASS
	Ant1	5200	20.20	5189.92	5210.12	PASS
	Ant2	5200	19.96	5190.04	5210.00	PASS
	Ant1	5240	20.36	5229.88	5250.24	PASS
	Ant2	5240	19.96	5230.00	5249.96	PASS
	Ant1	5260	20.44	5249.76	5270.20	PASS
	Ant2	5260	20.16	5249.88	5270.04	PASS
	Ant1	5280	20.32	5269.68	5290.00	PASS
	Ant2	5280	20.08	5269.92	5290.00	PASS
	Ant1	5320	20.04	5309.92	5329.96	PASS
	Ant2	5320	20.04	5309.88	5329.92	PASS
	Ant1	5500	20.16	5489.92	5510.08	PASS
	Ant2	5500	20.04	5489.96	5510.00	PASS
	Ant1	5580	20.32	5569.72	5590.04	PASS
	Ant2	5580	20.12	5569.92	5590.04	PASS
	Ant1	5700	20.24	5689.92	5710.16	PASS
	Ant2	5700	20.00	5690.00	5710.00	PASS
	Ant1	5720	20.04	5710.00	5730.04	PASS
	Ant2	5720	20.24	5709.80	5730.04	PASS
	Ant1	5720 UNII-2C	15.00	5710.00	5725	PASS
	Ant2	5720 UNII-2C	15.20	5709.80	5725	PASS
	Ant1	5720 UNII-3	5.04	5725	5730.04	PASS
	Ant2	5720 UNII-3	5.04	5725	5730.04	PASS
	Ant1	5745	20.20	5734.80	5755.00	PASS
	Ant2	5745	20.96	5734.28	5755.24	PASS

	Ant1	5785	20.28	5774.88	5795.16	PASS
	Ant2	5785	23.32	5773.32	5796.64	PASS
	Ant1	5825	20.44	5814.72	5835.16	PASS
	Ant2	5825	24.40	5810.76	5835.16	PASS
11N40MIMO	Ant1	5190	40.64	5169.76	5210.40	PASS
	Ant2	5190	40.16	5169.92	5210.08	PASS
	Ant1	5230	40.72	5209.84	5250.56	PASS
	Ant2	5230	40.16	5210.00	5250.16	PASS
	Ant1	5270	40.56	5249.60	5290.16	PASS
	Ant2	5270	40.00	5250.00	5290.00	PASS
	Ant1	5310	40.80	5289.52	5330.32	PASS
	Ant2	5310	39.84	5289.92	5329.76	PASS
	Ant1	5510	40.80	5489.68	5530.48	PASS
	Ant2	5510	39.92	5490.08	5530.00	PASS
	Ant1	5550	40.48	5529.84	5570.32	PASS
	Ant2	5550	41.12	5529.36	5570.48	PASS
	Ant1	5670	40.64	5649.68	5690.32	PASS
	Ant2	5670	40.32	5649.84	5690.16	PASS
	Ant1	5710	40.56	5689.76	5730.32	PASS
	Ant2	5710	40.48	5689.76	5730.24	PASS
	Ant1	5710 UNII-2C	35.24	5689.76	5725	PASS
	Ant2	5710 UNII-2C	35.24	5689.76	5725	PASS
	Ant1	5710 UNII-3	5.32	5725	5730.32	PASS
	Ant2	5710 UNII-3	5.24	5725	5730.24	PASS
	Ant1	5755	40.88	5734.60	5775.48	PASS
	Ant2	5755	41.04	5734.52	5775.56	PASS
	Ant1	5795	41.04	5774.68	5815.72	PASS
	Ant2	5795	42.40	5773.08	5815.48	PASS
11AC80MIMO	Ant1	5210	80.32	5169.84	5250.16	PASS
	Ant2	5210	79.84	5170.16	5250.00	PASS
	Ant1	5290	80.00	5250.00	5330.00	PASS
	Ant2	5290	79.84	5250.16	5330.00	PASS
	Ant1	5530	80.16	5490.00	5570.16	PASS
	Ant2	5530	80.00	5490.16	5570.16	PASS
	Ant1	5610	80.16	5570.00	5650.16	PASS
	Ant2	5610	80.00	5570.16	5650.16	PASS
	Ant1	5690	80.32	5650.00	5730.32	PASS
	Ant2	5690	80.16	5649.84	5730.00	PASS
	Ant1	5690 UNII-2C	75	5650.00	5725	PASS
	Ant2	5690 UNII-2C	75.16	5649.84	5725	PASS
	Ant1	5690 UNII-3	5.32	5725	5730.32	PASS
	Ant2	5690 UNII-3	5	5725	5730.00	PASS
	Ant1	5775	80.16	5735.00	5815.16	PASS
	Ant2	5775	80.16	5734.84	5815.00	PASS
11AX20MIMO	Ant1	5180	21.44	5169.24	5190.68	PASS
	Ant2	5180	21.40	5169.16	5190.56	PASS
	Ant1	5200	22.56	5188.64	5211.20	PASS
	Ant2	5200	22.60	5188.80	5211.40	PASS
	Ant1	5240	19.92	5230.00	5249.92	PASS
	Ant2	5240	19.96	5230.04	5250.00	PASS
	Ant1	5260	22.56	5248.20	5270.76	PASS
	Ant2	5260	21.92	5249.44	5271.36	PASS
	Ant1	5280	21.60	5269.12	5290.72	PASS
	Ant2	5280	22.68	5268.64	5291.32	PASS
	Ant1	5320	21.80	5309.00	5330.80	PASS
	Ant2	5320	21.88	5308.88	5330.76	PASS
	Ant1	5500	21.80	5489.24	5511.04	PASS
	Ant2	5500	23.00	5488.36	5511.36	PASS
	Ant1	5580	21.84	5568.88	5590.72	PASS
	Ant2	5580	21.60	5569.40	5591.00	PASS
	Ant1	5700	21.32	5689.56	5710.88	PASS
	Ant2	5700	22.60	5689.16	5711.76	PASS
	Ant1	5720	22.16	5707.00	5731.16	PASS
	Ant2	5720	25.16	5708.88	5734.04	PASS

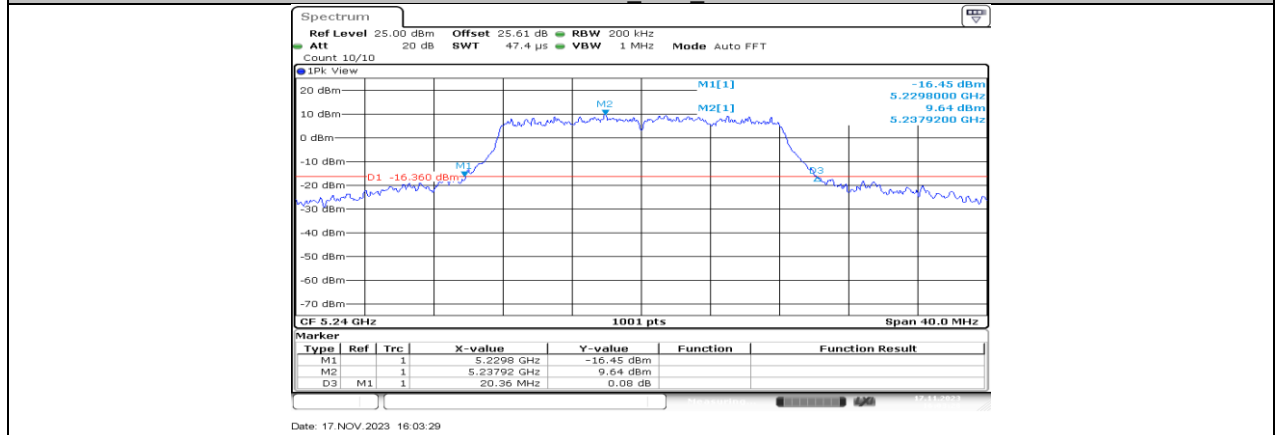
	Ant1	5720 UNII-2C	18.00	5707.00	5725	PASS
	Ant2	5720 UNII-2C	16.12	5708.88	5725	PASS
	Ant1	5720 UNII-3	6.16	5725	5731.16	PASS
	Ant2	5720 UNII-3	9.04	5725	5734.04	PASS
	Ant1	5745	21.44	5734.40	5755.84	PASS
	Ant2	5745	22.92	5733.80	5756.72	PASS
	Ant1	5785	22.68	5773.56	5796.24	PASS
	Ant2	5785	23.44	5773.16	5796.60	PASS
	Ant1	5825	23.76	5814.08	5837.84	PASS
	Ant2	5825	23.80	5813.92	5837.72	PASS
11AX40MIMO	Ant1	5190	39.76	5170.16	5209.92	PASS
	Ant2	5190	39.84	5170.08	5209.92	PASS
	Ant1	5230	39.76	5210.16	5249.92	PASS
	Ant2	5230	39.76	5210.16	5249.92	PASS
	Ant1	5270	39.76	5250.16	5289.92	PASS
	Ant2	5270	39.76	5250.16	5289.92	PASS
	Ant1	5310	39.76	5290.16	5329.92	PASS
	Ant2	5310	39.84	5290.08	5329.92	PASS
	Ant1	5510	39.84	5490.08	5529.92	PASS
	Ant2	5510	39.84	5490.08	5529.92	PASS
	Ant1	5550	39.76	5530.08	5569.84	PASS
	Ant2	5550	39.76	5530.16	5569.92	PASS
	Ant1	5670	39.68	5650.16	5689.84	PASS
	Ant2	5670	39.68	5650.16	5689.84	PASS
	Ant1	5710	39.76	5690.16	5729.92	PASS
	Ant2	5710	39.84	5690.08	5729.92	PASS
	Ant1	5710 UNII-2C	34.84	5690.16	5725	PASS
	Ant2	5710 UNII-2C	34.92	5690.08	5725	PASS
	Ant1	5710 UNII-3	4.92	5725	5729.92	PASS
	Ant2	5710 UNII-3	4.92	5725	5729.92	PASS
	Ant1	5755	39.84	5735.08	5774.92	PASS
	Ant2	5755	39.76	5735.08	5774.84	PASS
	Ant1	5795	39.84	5775.16	5815.00	PASS
	Ant2	5795	44.00	5771.00	5815.00	PASS
11AX80MIMO	Ant1	5210	80.48	5169.84	5250.32	PASS
	Ant2	5210	80.64	5169.84	5250.48	PASS
	Ant1	5290	80.64	5249.84	5330.48	PASS
	Ant2	5290	80.32	5249.84	5330.16	PASS
	Ant1	5530	80.48	5489.84	5570.32	PASS
	Ant2	5530	80.48	5489.84	5570.32	PASS
	Ant1	5610	80.80	5569.68	5650.48	PASS
	Ant2	5610	80.48	5569.84	5650.32	PASS
	Ant1	5690	80.64	5649.84	5730.48	PASS
	Ant2	5690	80.48	5649.84	5730.32	PASS
	Ant1	5690 UNII-2C	75.16	5649.84	5725	PASS
	Ant2	5690 UNII-2C	75.16	5649.84	5725	PASS
	Ant1	5690 UNII-3	5.48	5725	5730.48	PASS
	Ant2	5690 UNII-3	5.32	5725	5730.32	PASS
	Ant1	5775	80.64	5734.84	5815.48	PASS
	Ant2	5775	80.48	5734.84	5815.32	PASS

12.1.2. Test Graphs

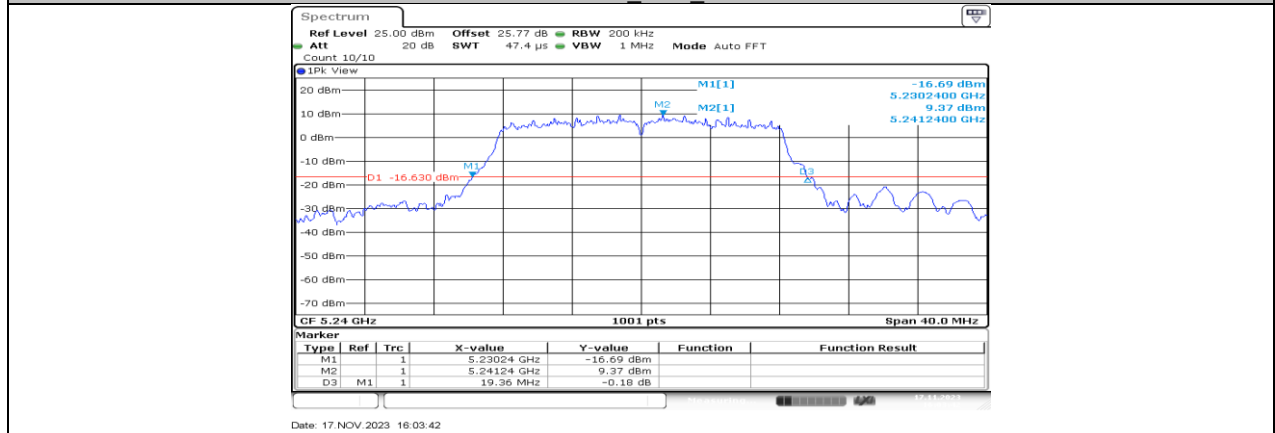




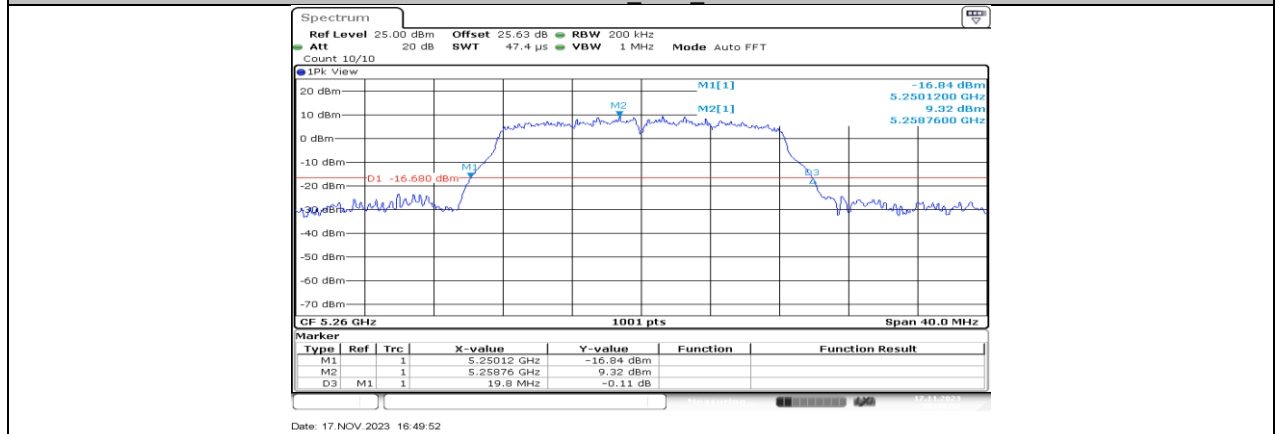
11A-CDD_Ant2_5200



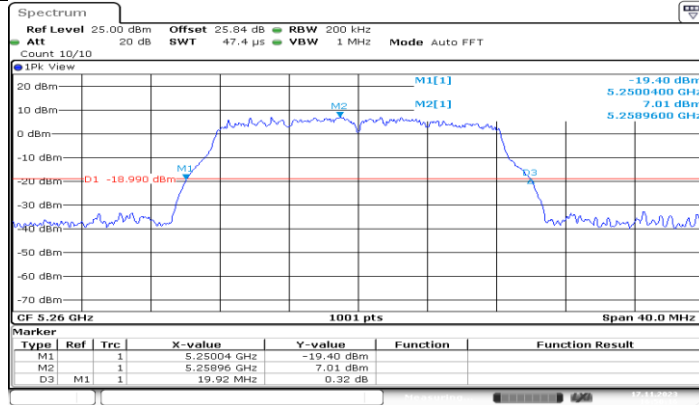
11A-CDD_Ant1_5240



11A-CDD_Ant2_5240

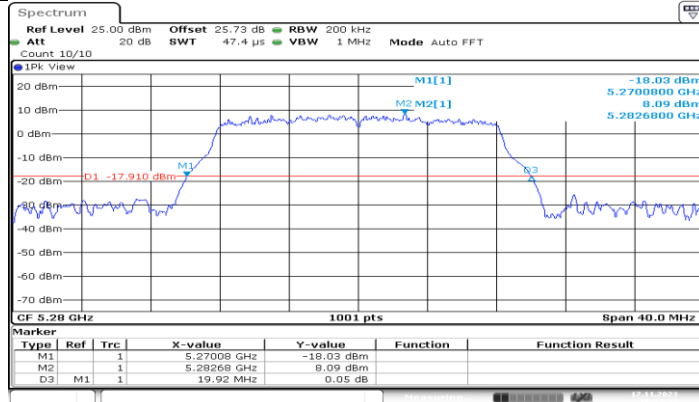


11A-CDD_Ant1_5260



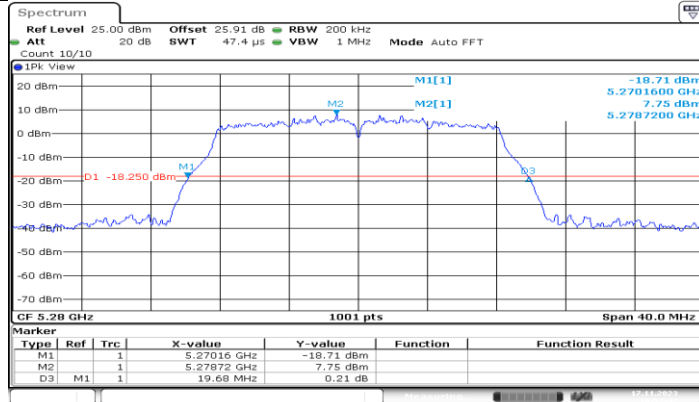
Date: 17 NOV 2023 16:50:17

11A-CDD_Ant2_5260



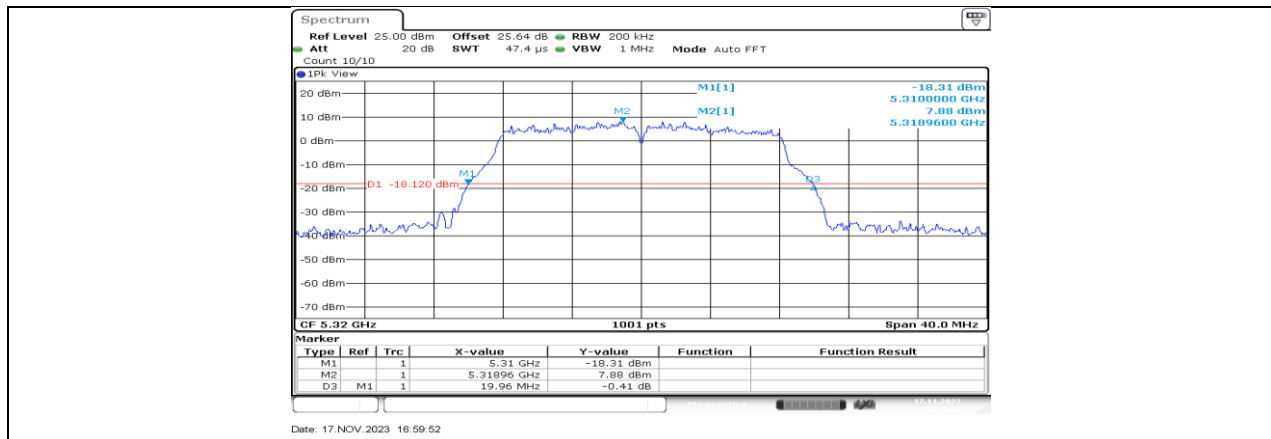
Date: 17 NOV 2023 16:57:23

11A-CDD_Ant1_5280

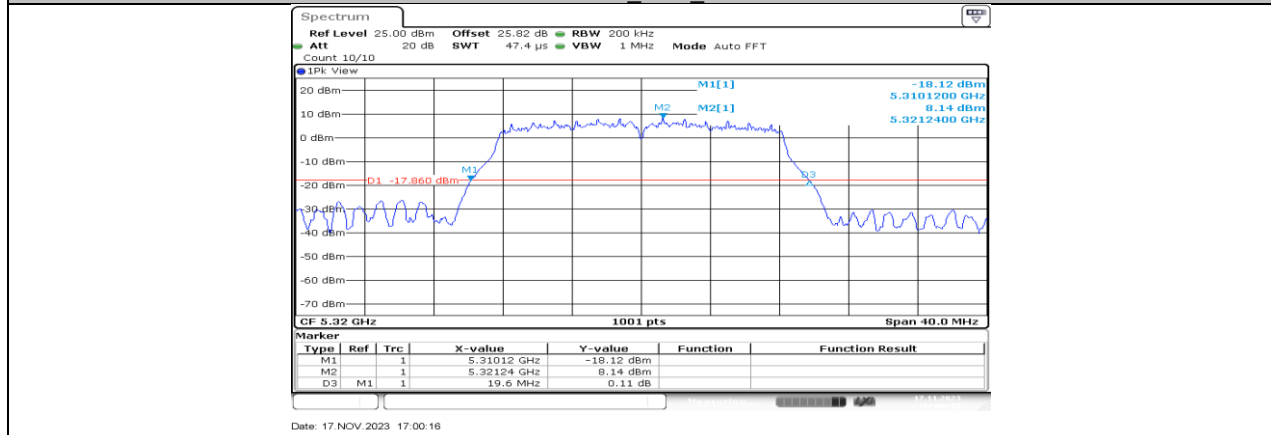


Date: 17 NOV 2023 16:57:48

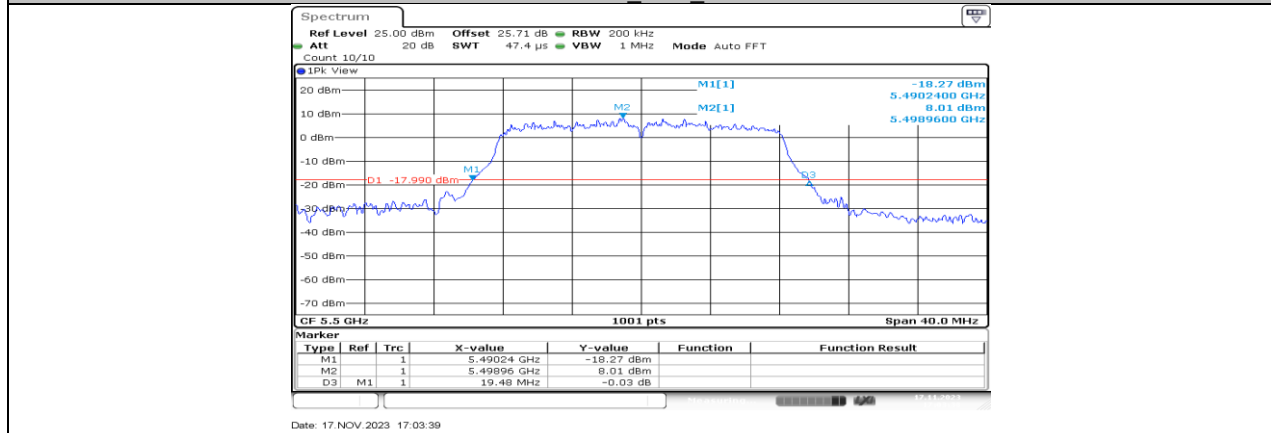
11A-CDD_Ant2_5280



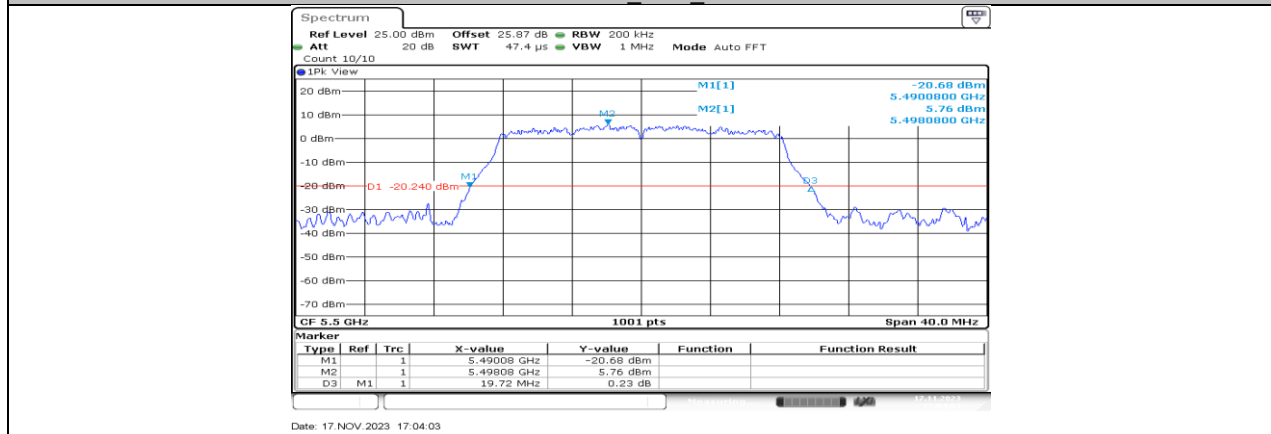
11A-CDD_Ant1_5320



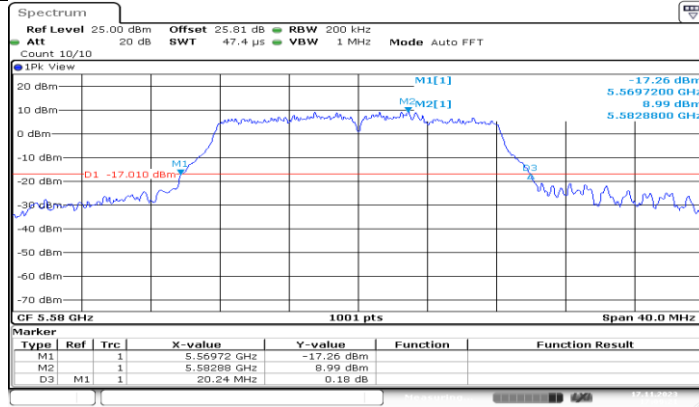
11A-CDD_Ant2_5320



11A-CDD_Ant1_5500

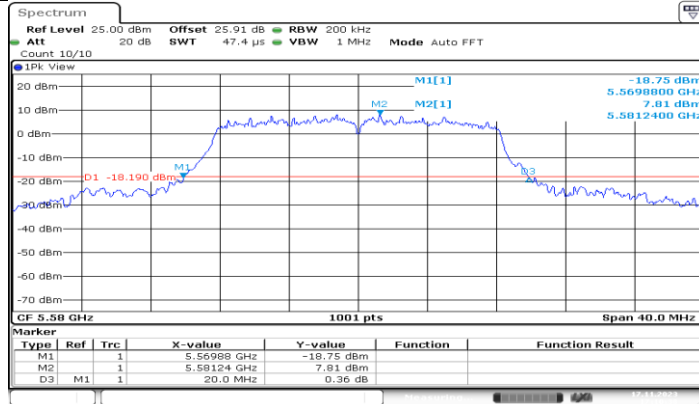


11A-CDD_Ant2_5500



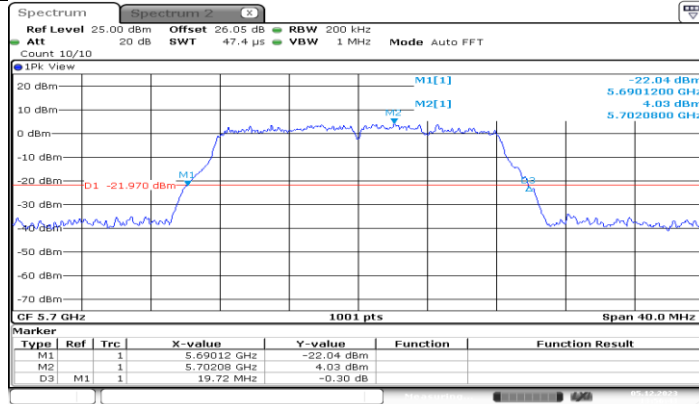
Date: 17.NOV.2023 17:09:21

11A-CDD_Ant1_5580



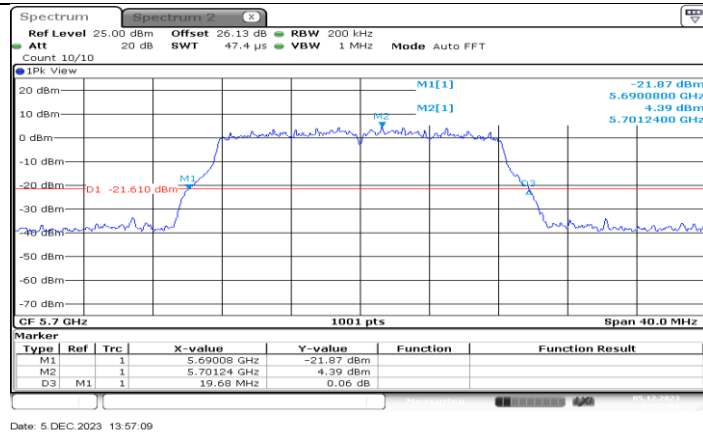
Date: 17.NOV.2023 17:10:38

11A-CDD_Ant2_5580

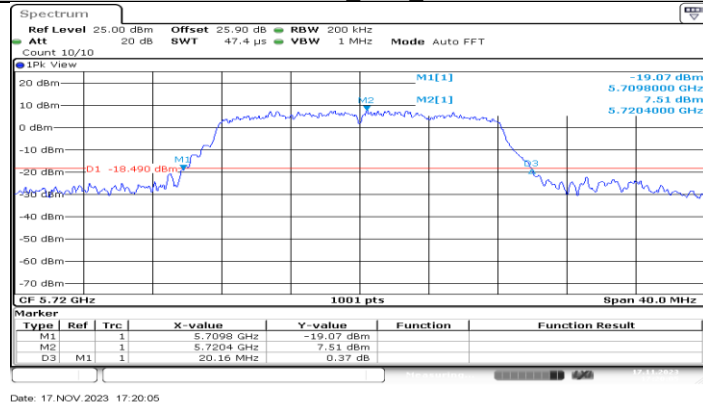


Date: 5.DEC.2023 13:56:44

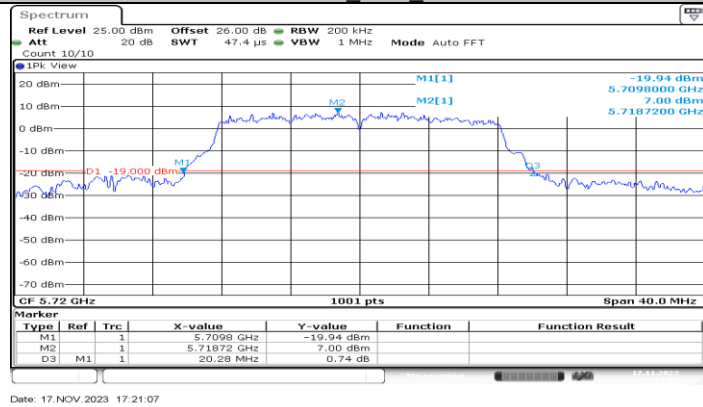
11A-CDD_Ant1_5700



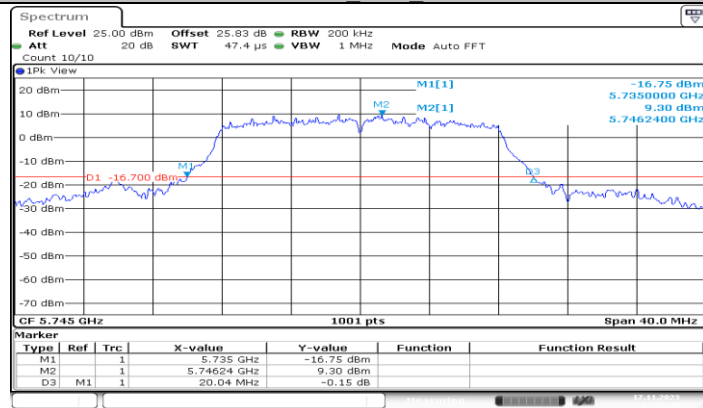
11A-CDD Ant2_5700



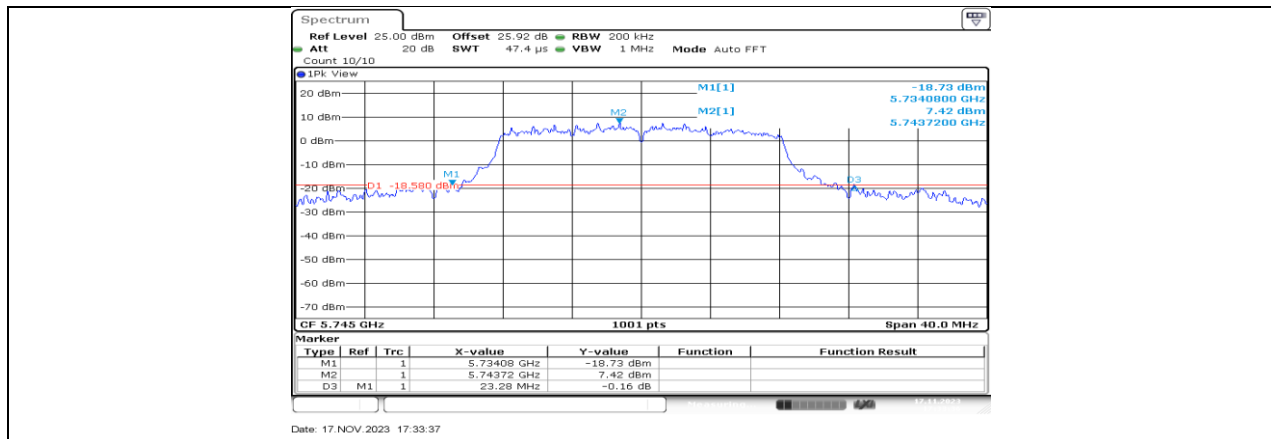
11A-CDD Ant1_5720



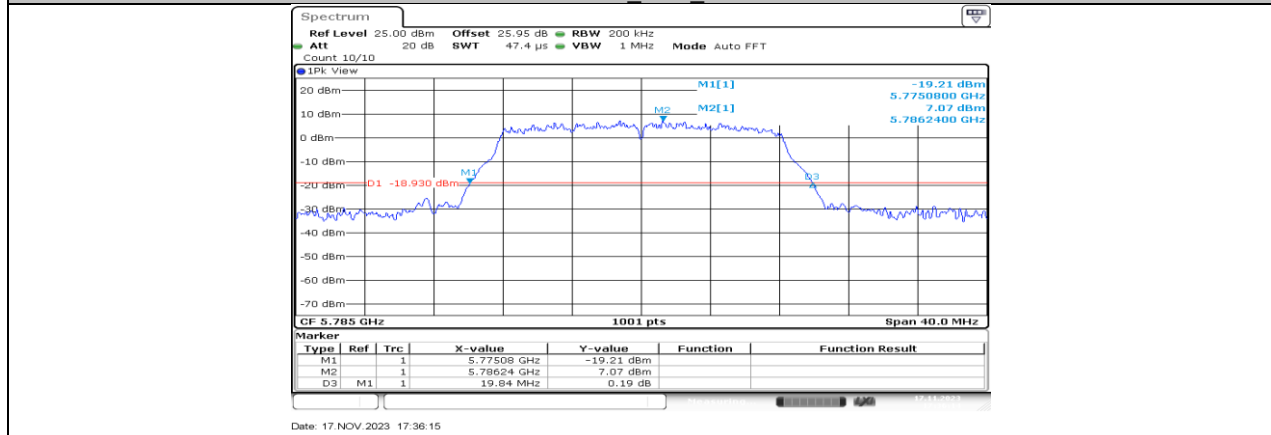
11A-CDD Ant2_5720



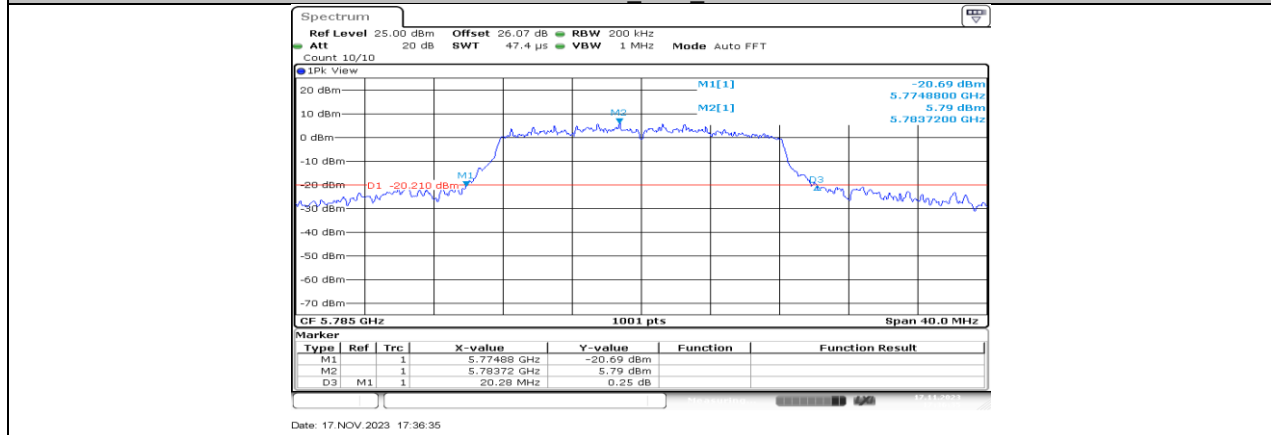
11A-CDD Ant1_5745



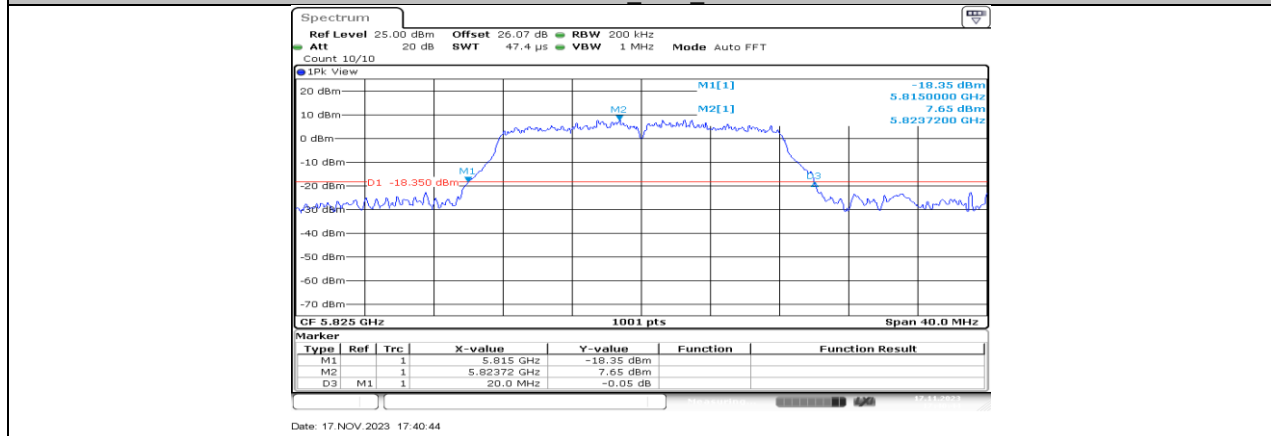
11A-CDD_Ant2_5745



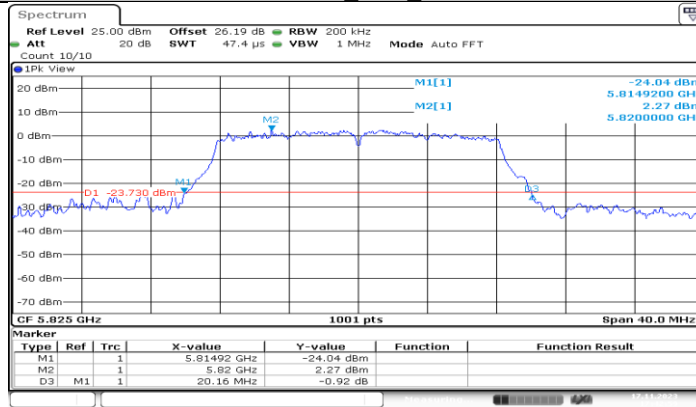
11A-CDD_Ant1_5785



11A-CDD_Ant2_5785

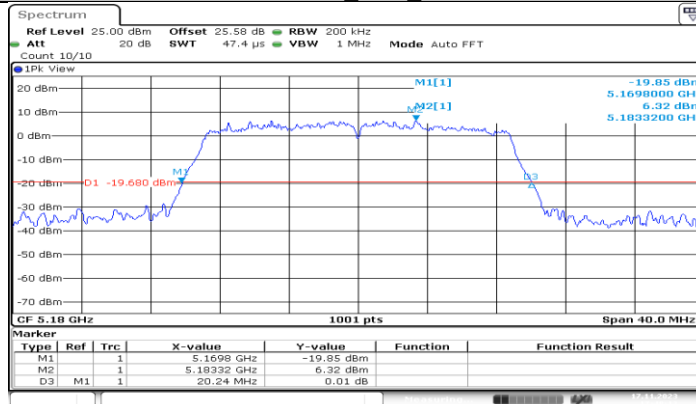


11A-CDD_Ant1_5825



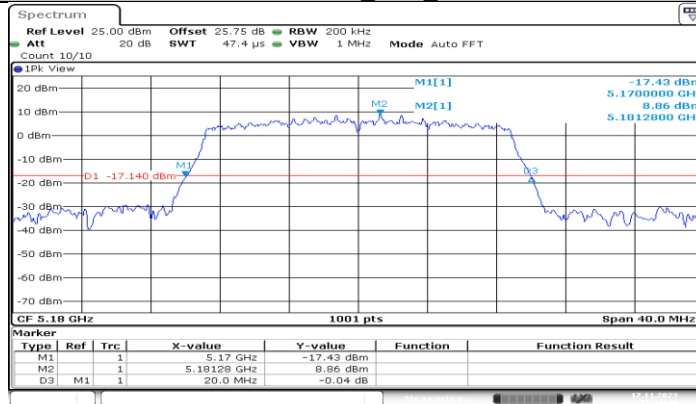
Date: 17 NOV 2023 17:42:59

11A-CDD_Ant2_5825



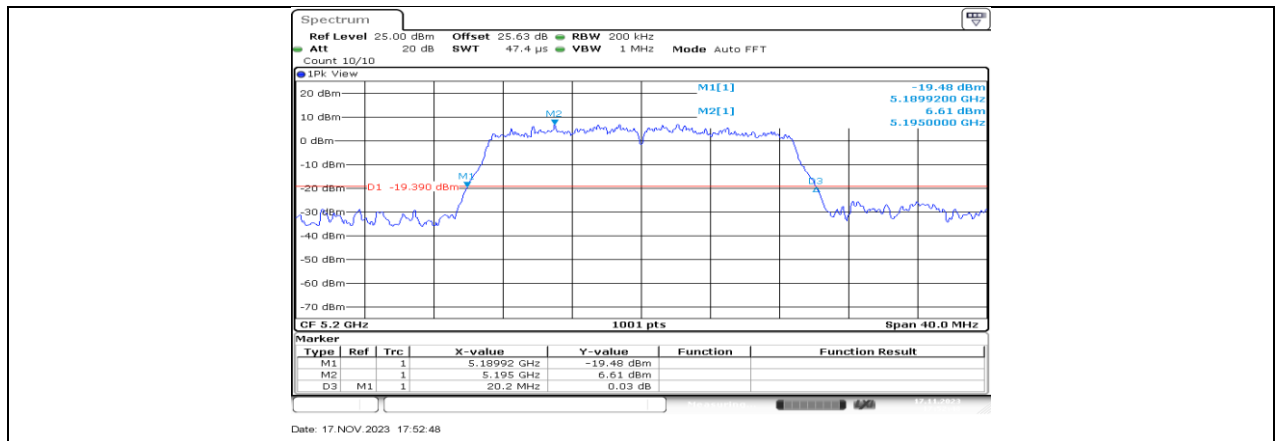
Date: 17 NOV 2023 17:48:13

11N20MIMO_Ant1_5180

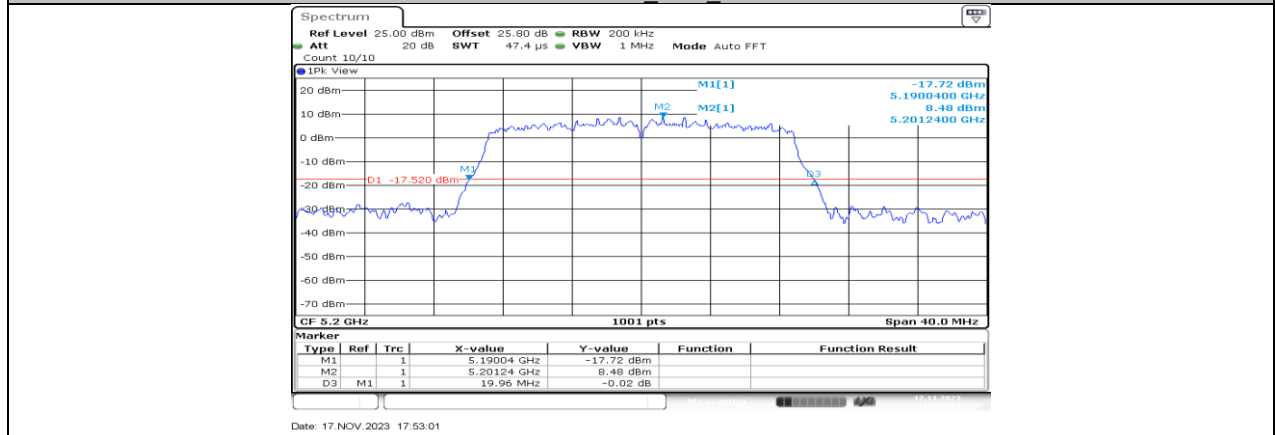


Date: 17 NOV 2023 17:48:40

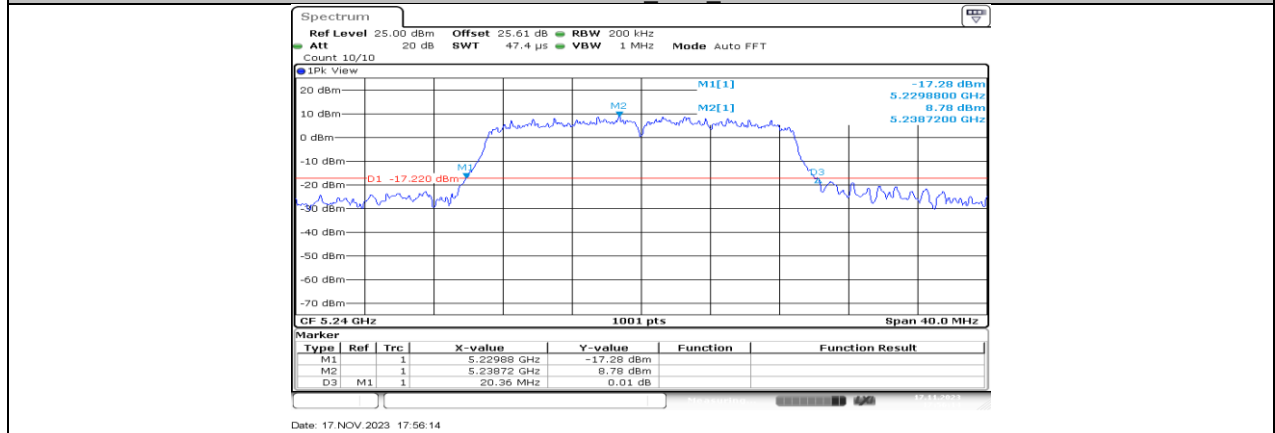
11N20MIMO_Ant2_5180



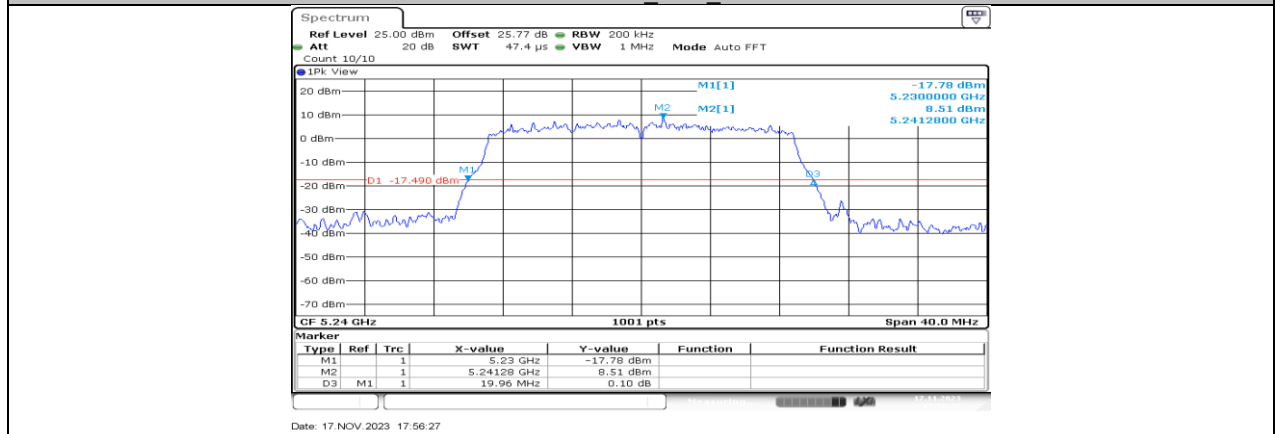
11N20MIMO_Ant1_5200



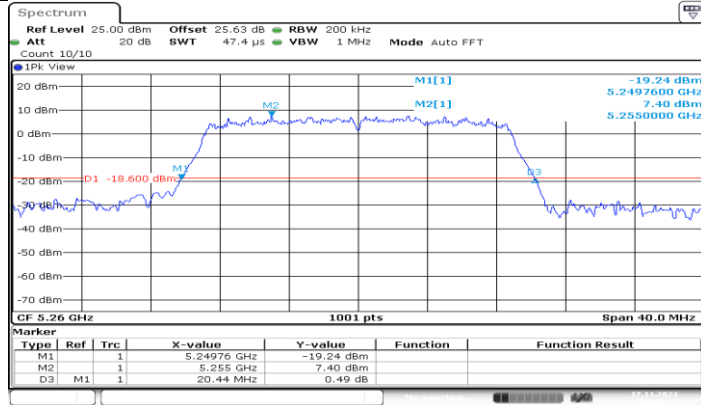
11N20MIMO_Ant2_5200



11N20MIMO_Ant1_5240

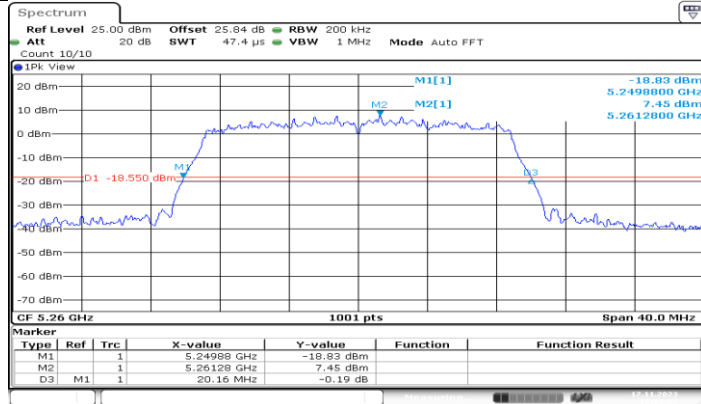


11N20MIMO_Ant2_5240



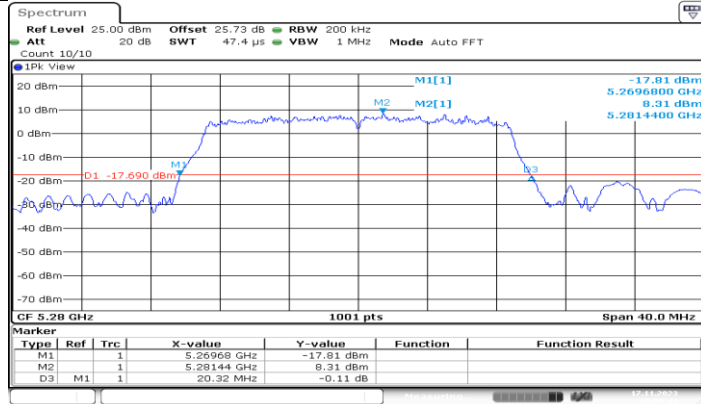
Date: 17 NOV 2023 18:05:44

11N20MIMO_Ant1_5260



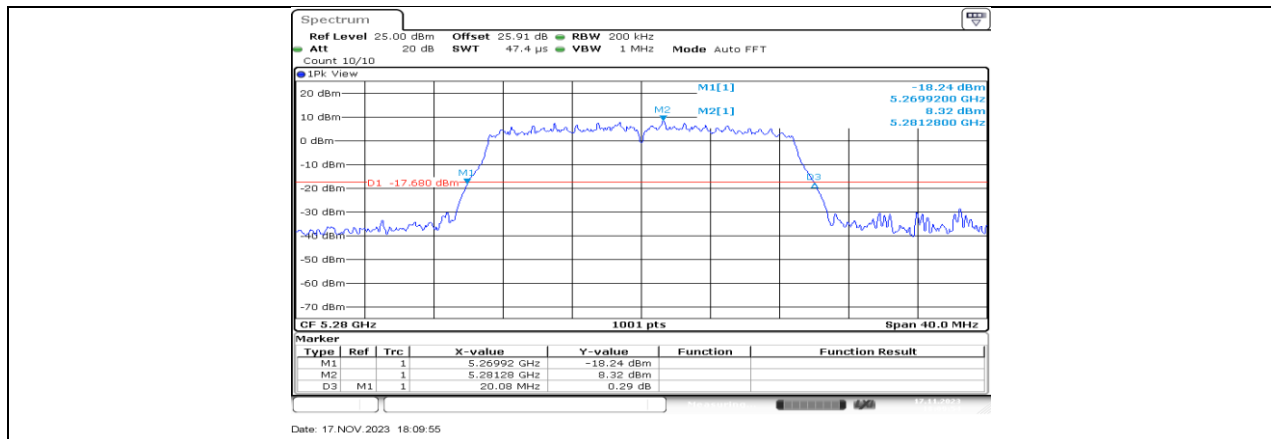
Date: 17 NOV 2023 18:05:57

11N20MIMO_Ant2_5260

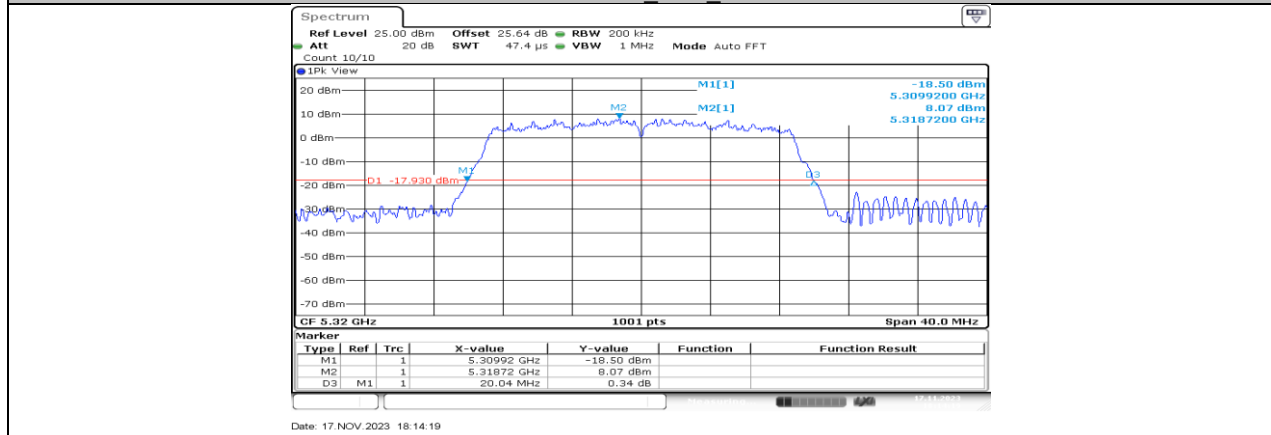


Date: 17 NOV 2023 18:09:42

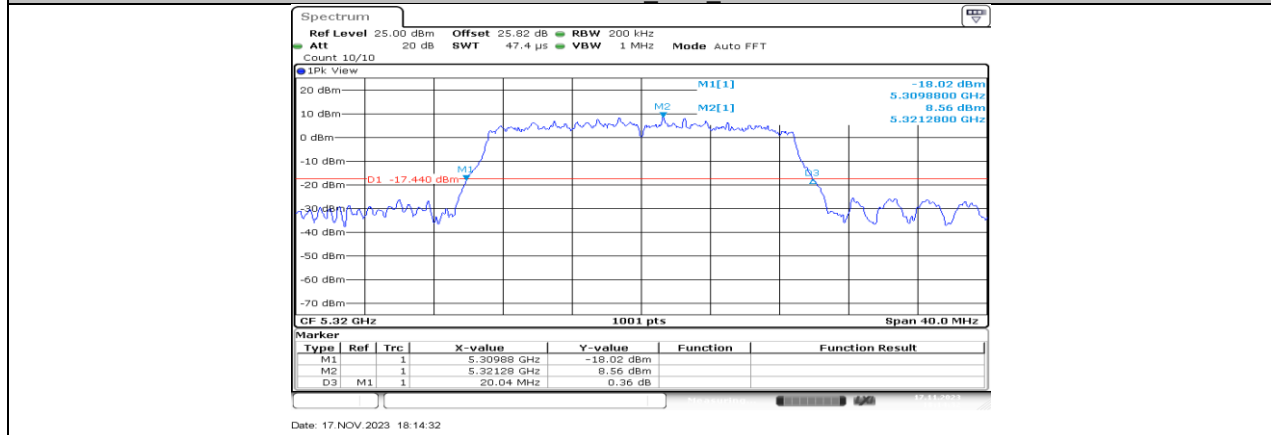
11N20MIMO_Ant1_5280



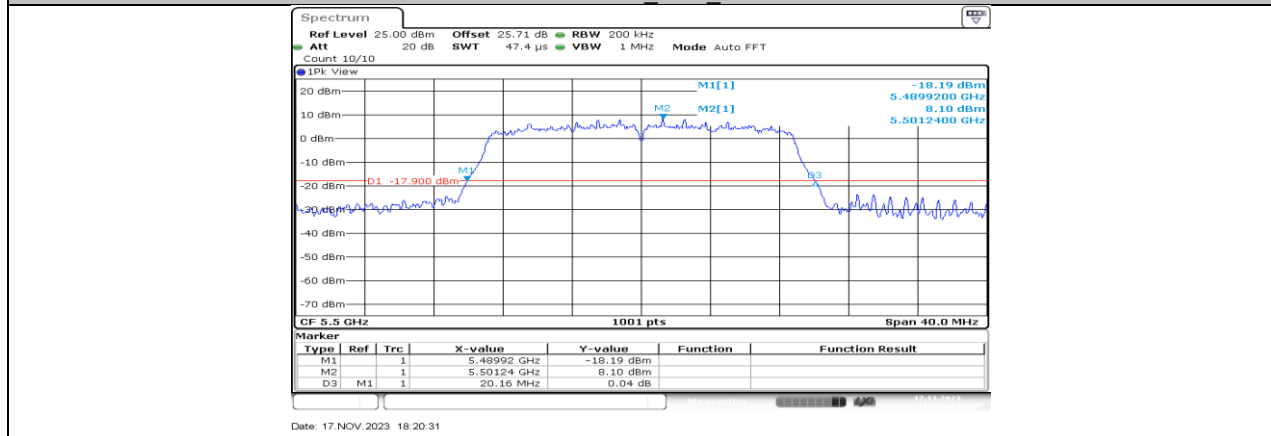
11N20MIMO_Ant2_5280



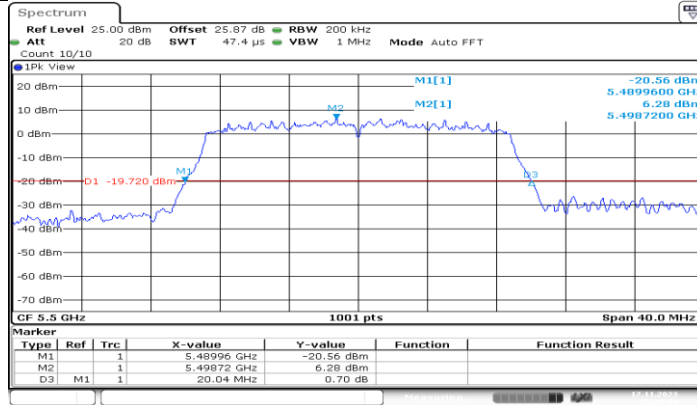
11N20MIMO_Ant1_5320



11N20MIMO_Ant2_5320

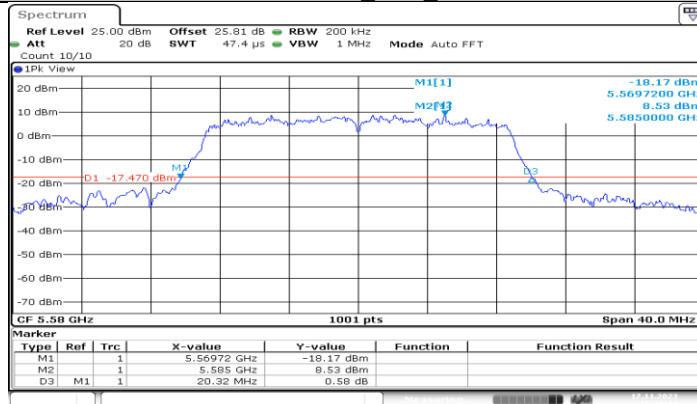


11N20MIMO_Ant1_5500



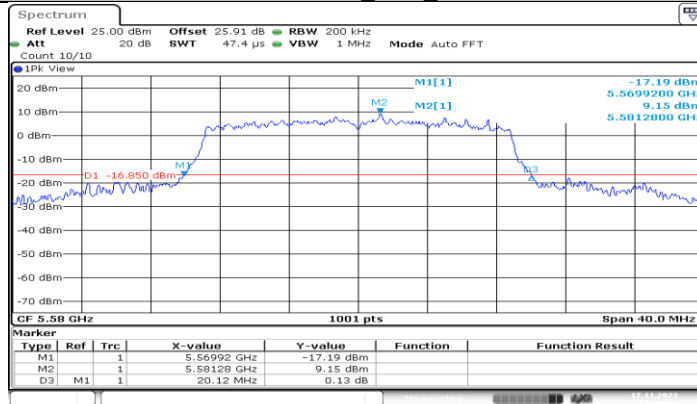
Date: 17 NOV 2023 18:20:44

11N20MIMO_Ant2_5500



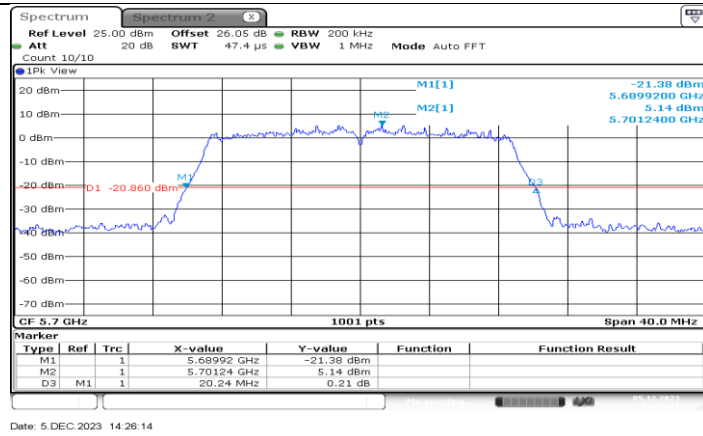
Date: 17 NOV 2023 18:30:19

11N20MIMO_Ant1_5580

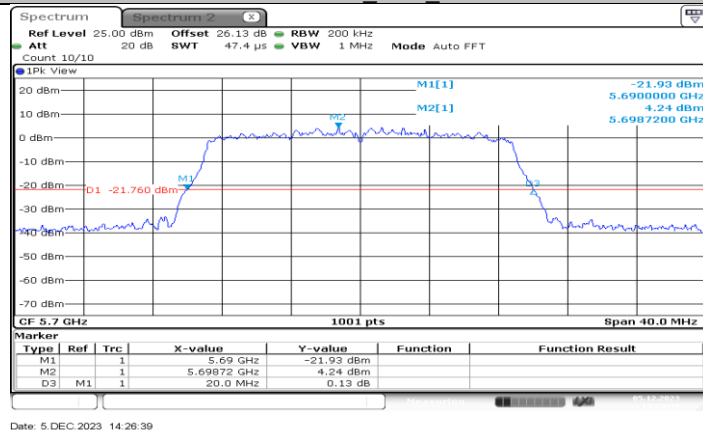


Date: 17 NOV 2023 18:30:32

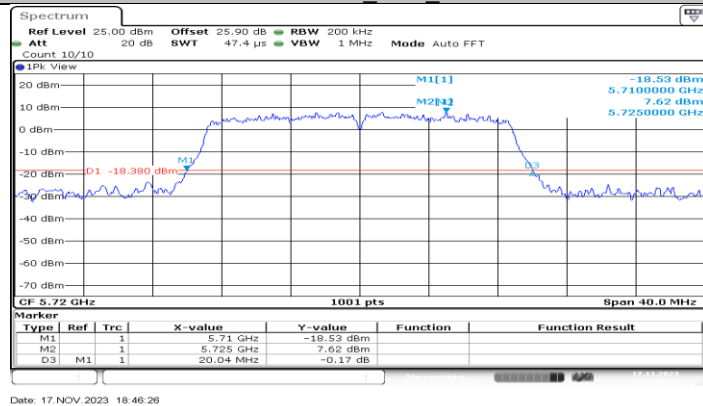
11N20MIMO_Ant2_5580



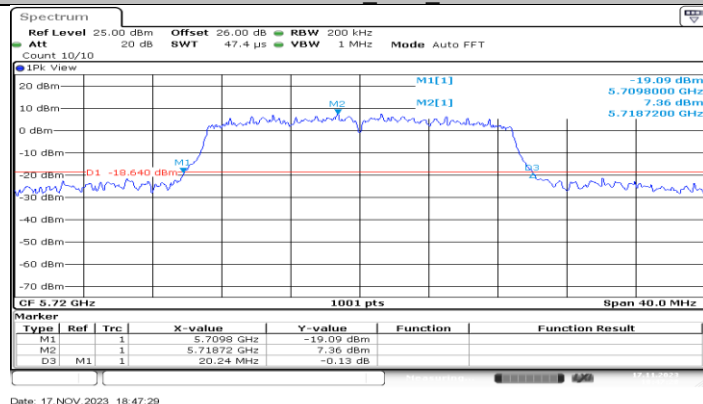
11N20MIMO_Ant1_5700



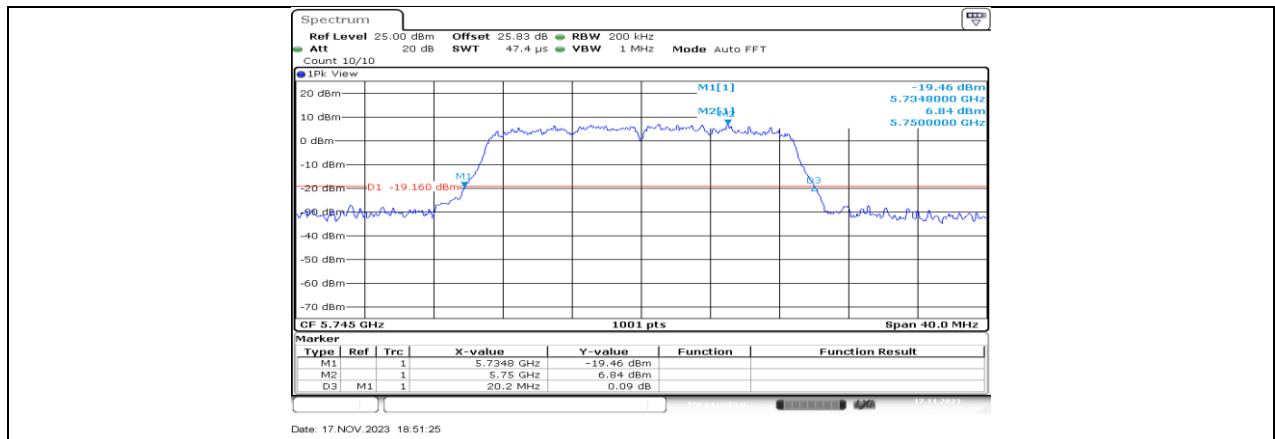
11N20MIMO_Ant2_5700



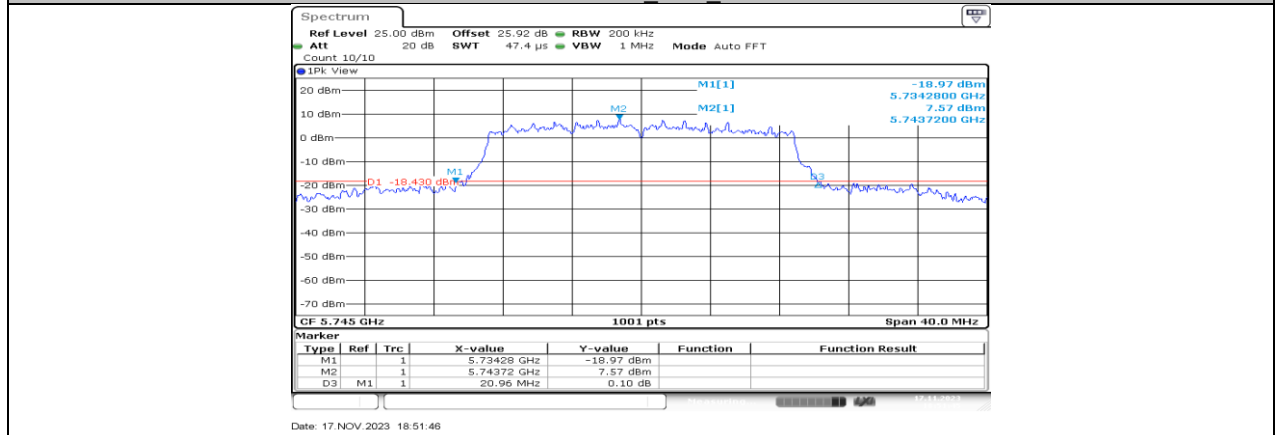
11N20MIMO_Ant1_5720



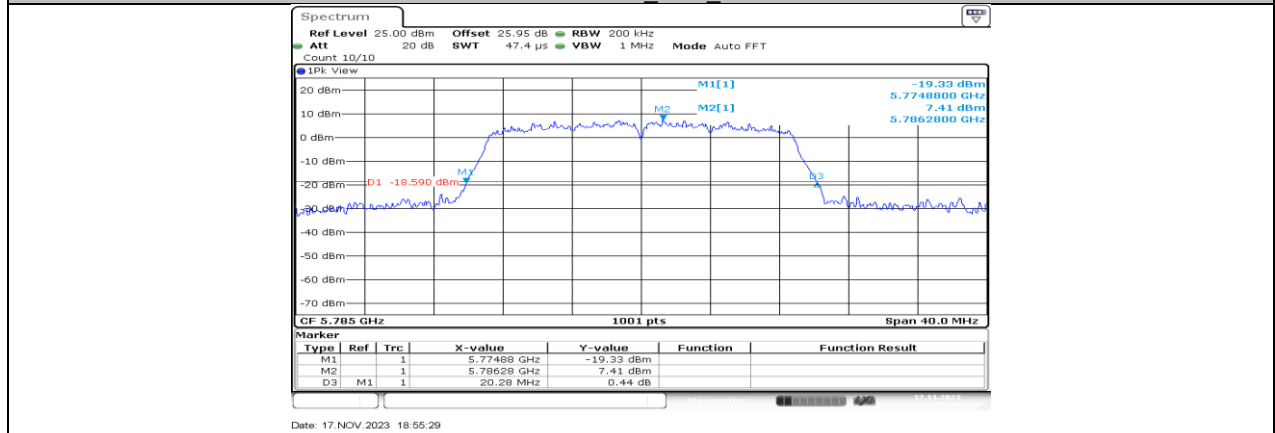
11N20MIMO_Ant2_5720



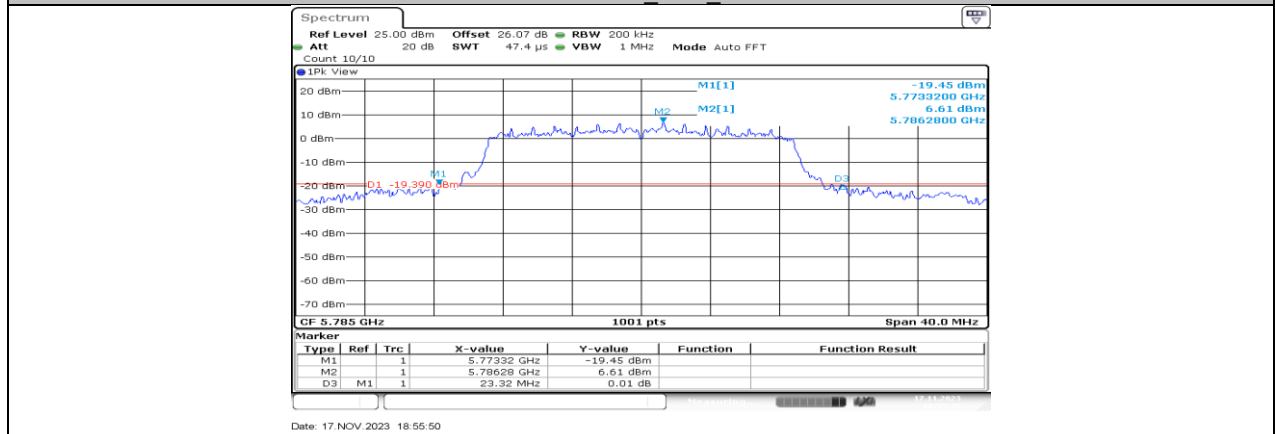
11N20MIMO_Ant1_5745



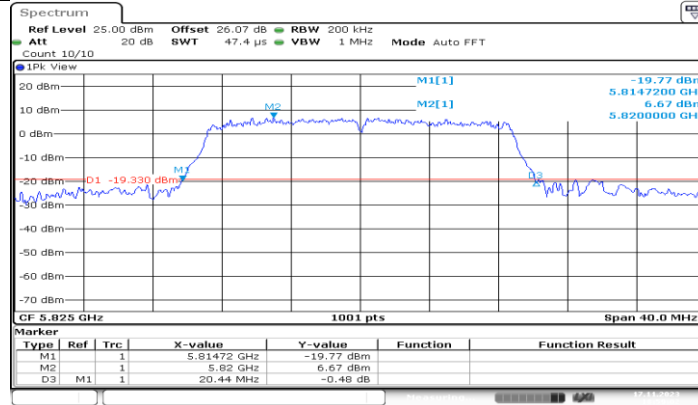
11N20MIMO_Ant2_5745



11N20MIMO_Ant1_5785

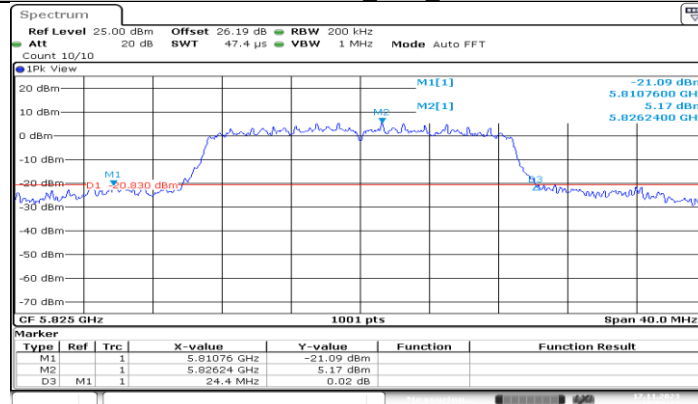


11N20MIMO_Ant2_5785



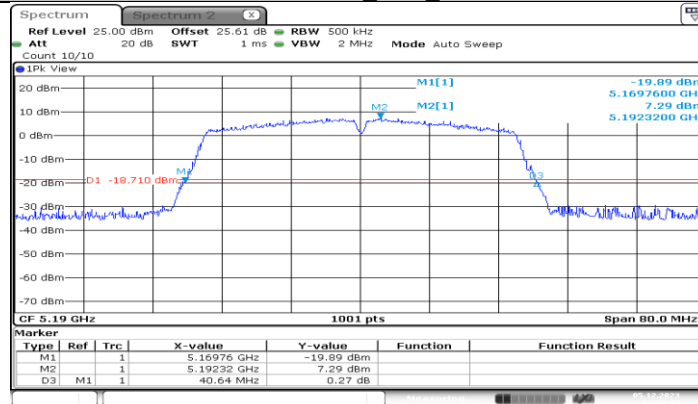
Date: 17 NOV 2023 18:59:02

11N20MIMO_Ant1_5825



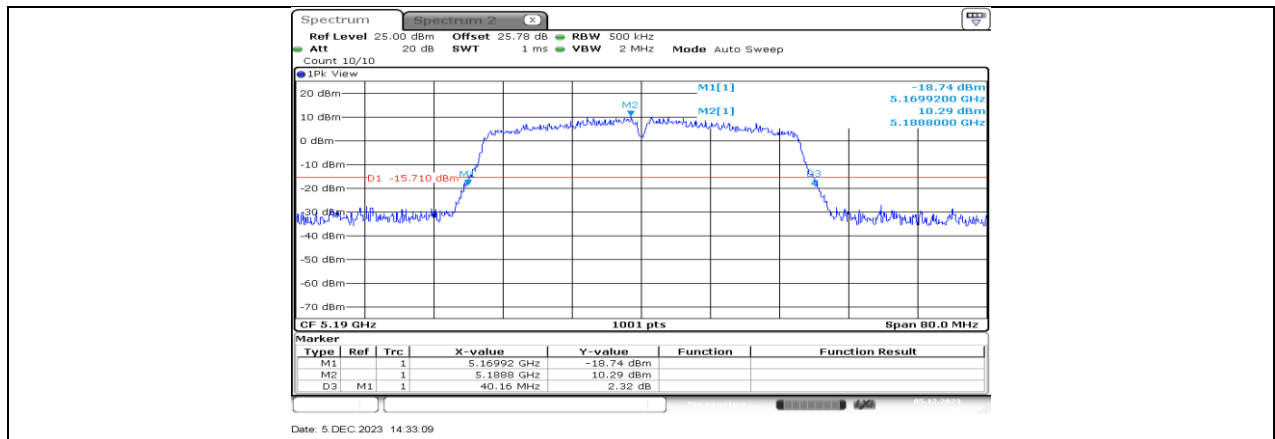
Date: 17 NOV 2023 18:59:23

11N20MIMO_Ant2_5825

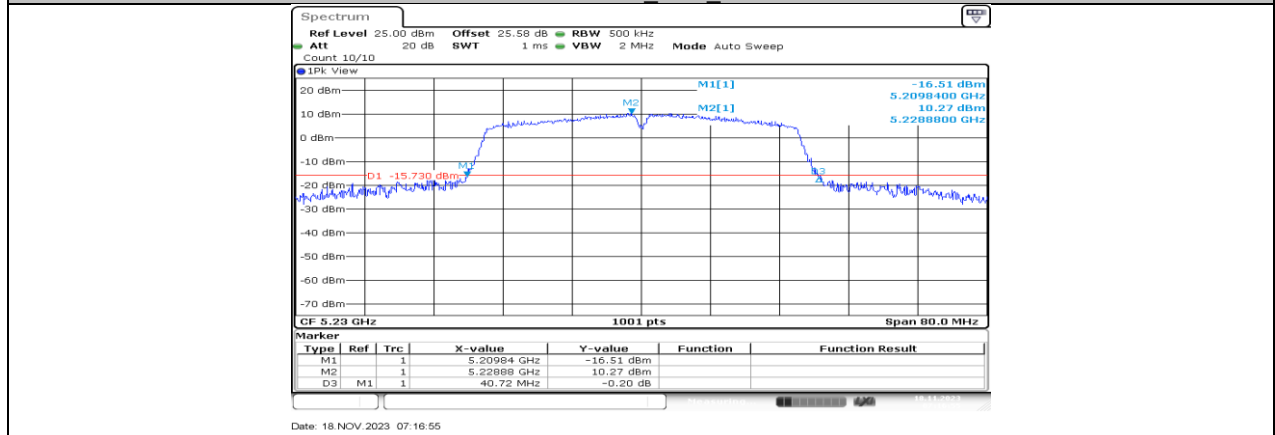


Date: 5 DEC 2023 14:32:44

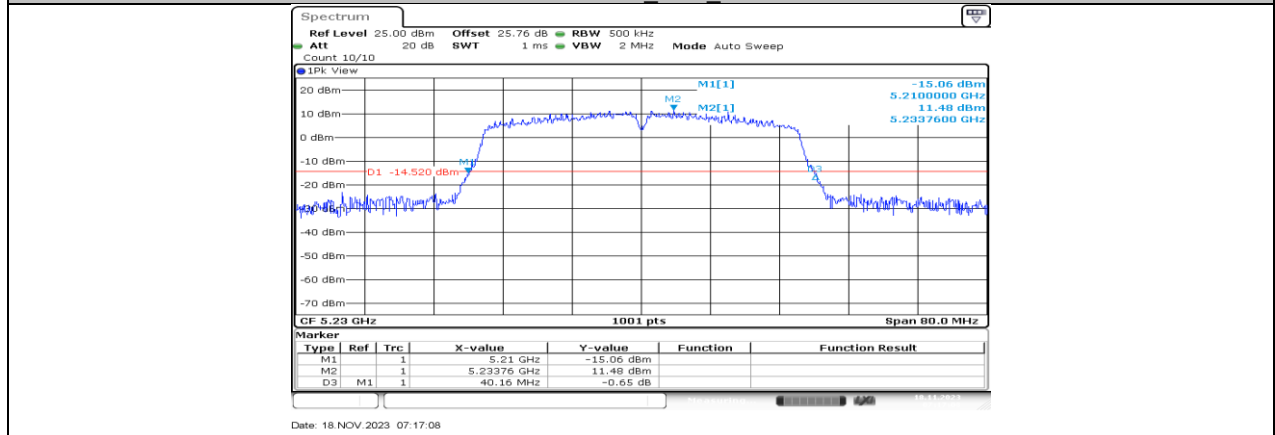
11N40MIMO_Ant1_5190



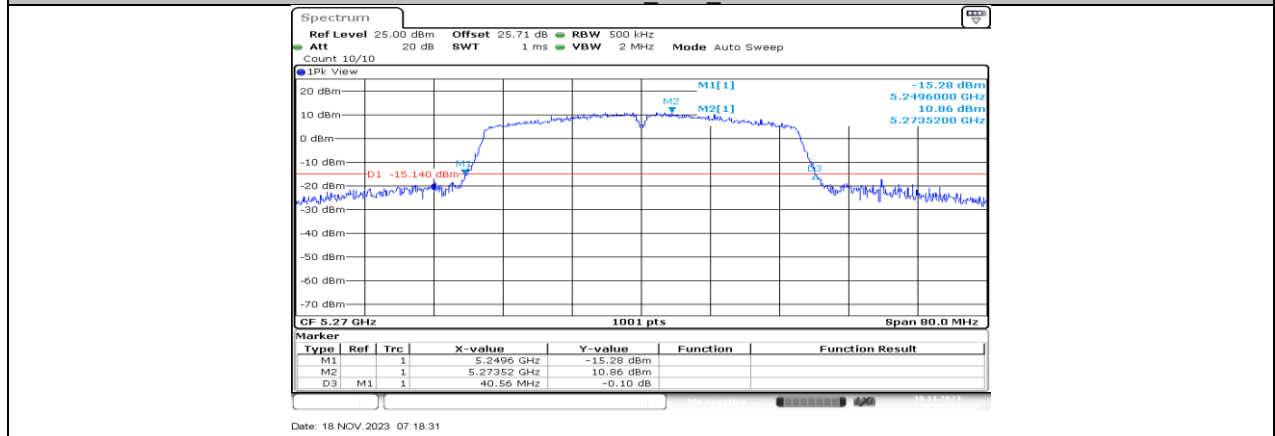
11N40MIMO_Ant2_5190



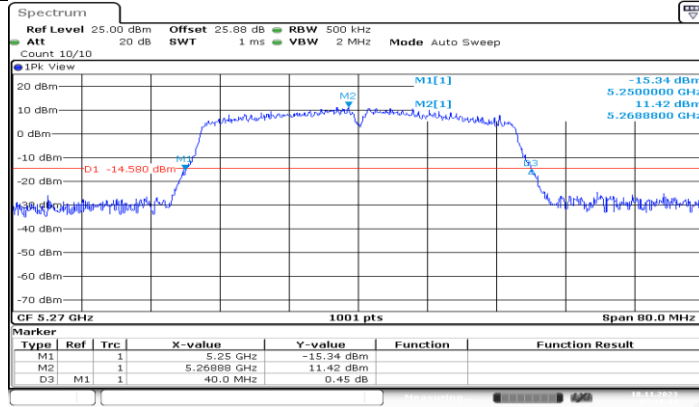
11N40MIMO_Ant1_5230



11N40MIMO_Ant2_5230

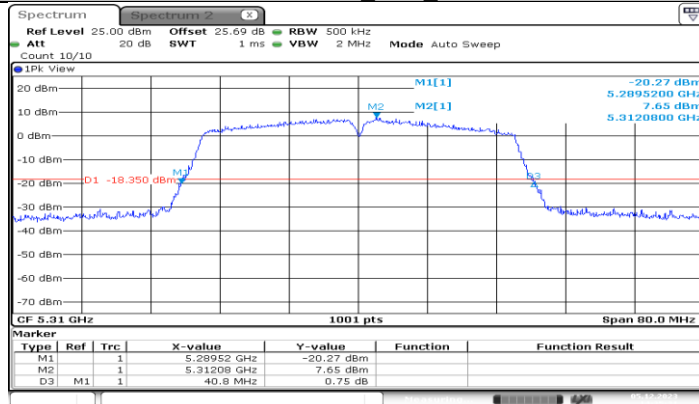


11N40MIMO_Ant1_5270



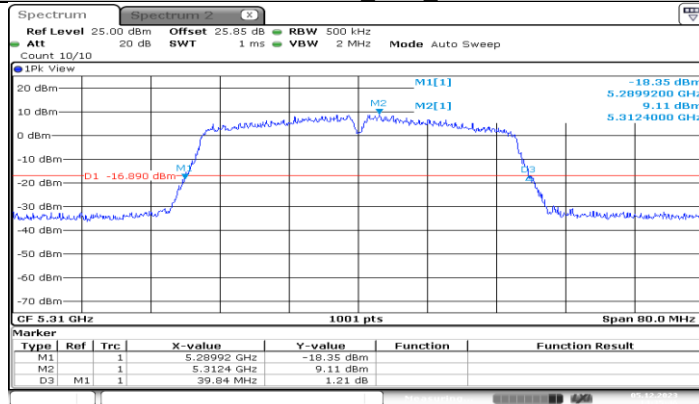
Date: 18.NOV.2023 07:18:44

11N40MIMO_Ant2_5270



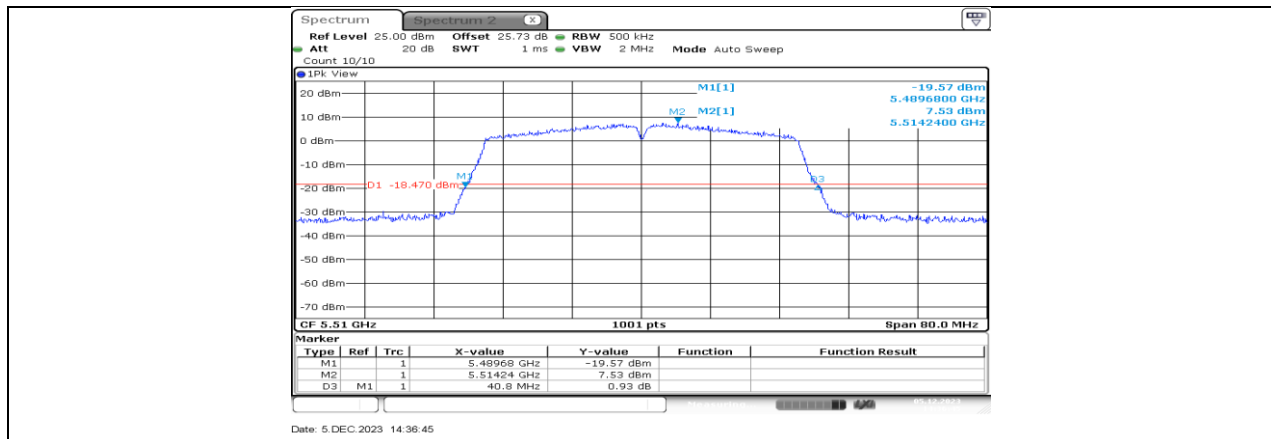
Date: 5.DEC.2023 14:35:21

11N40MIMO_Ant1_5310

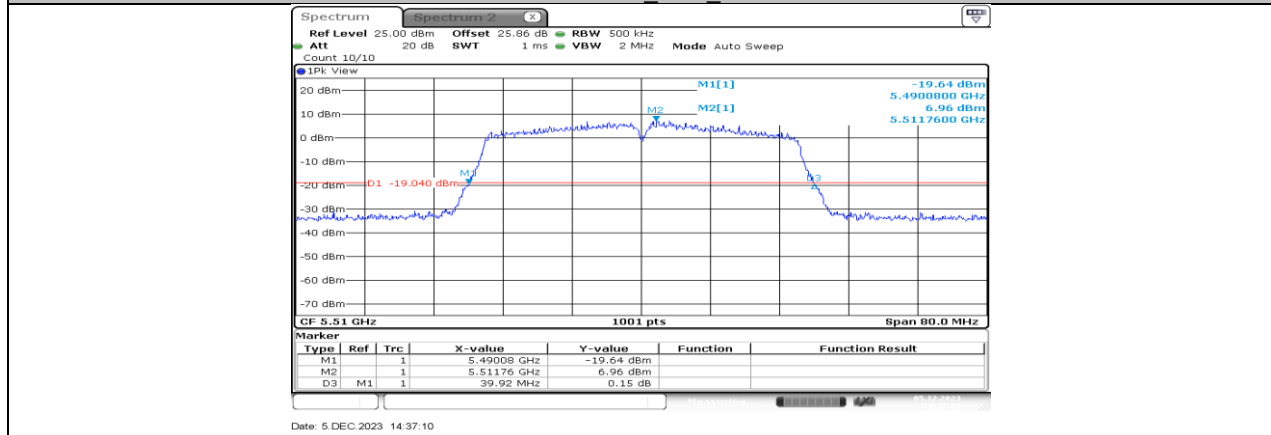


Date: 5.DEC.2023 14:35:46

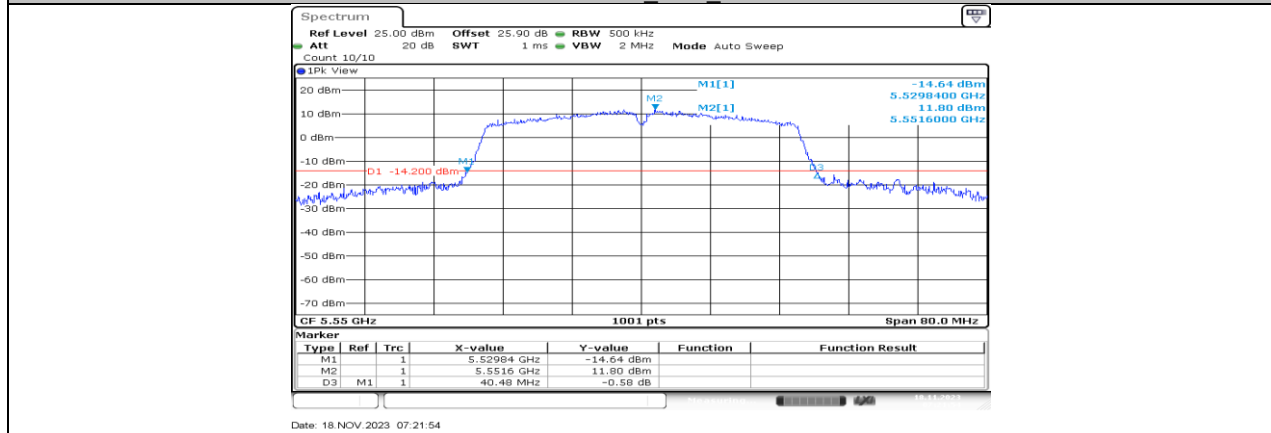
11N40MIMO_Ant2_5310



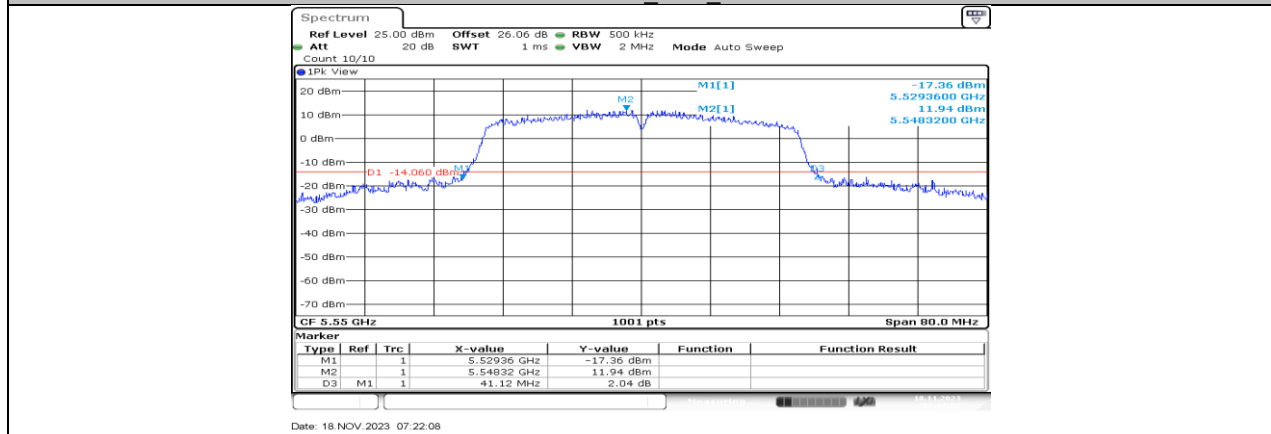
11N40MIMO_Ant1_5510

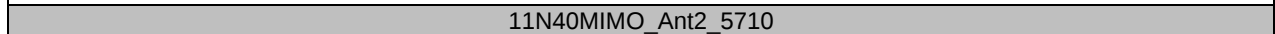
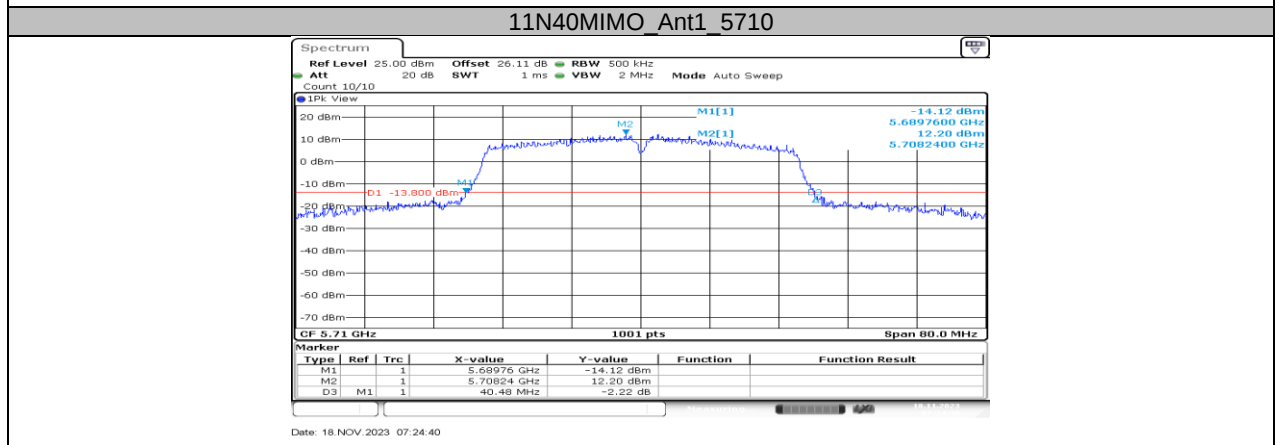
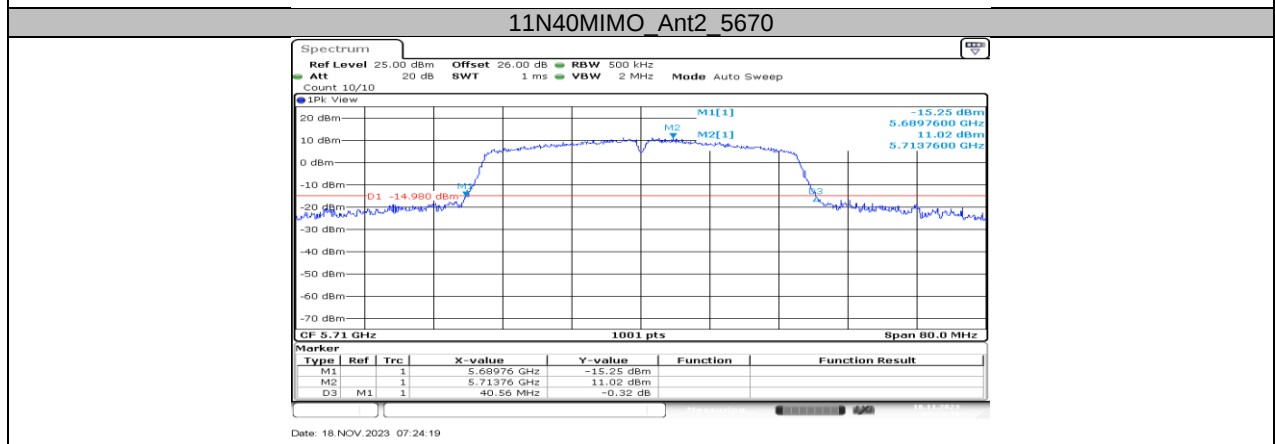
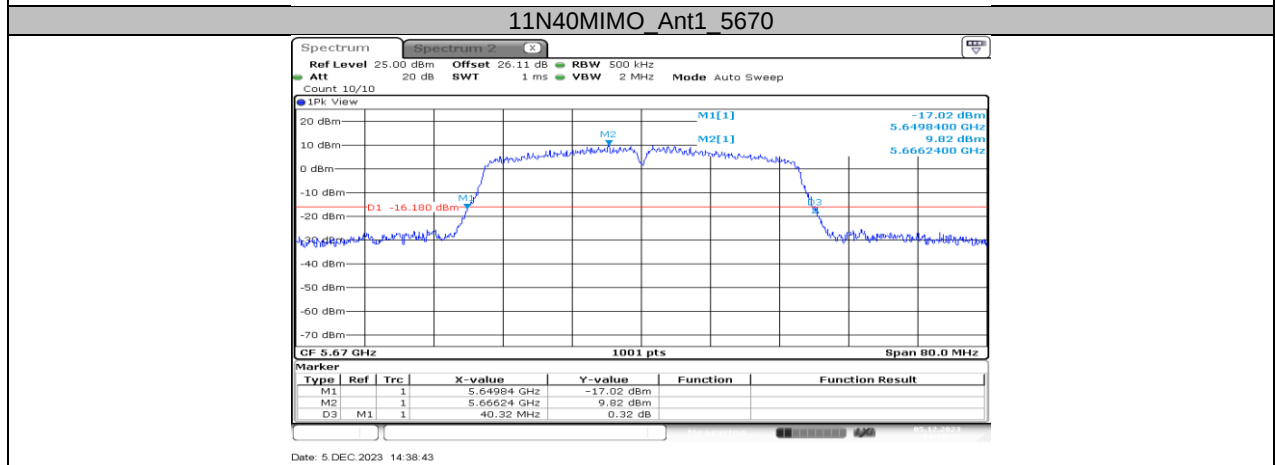
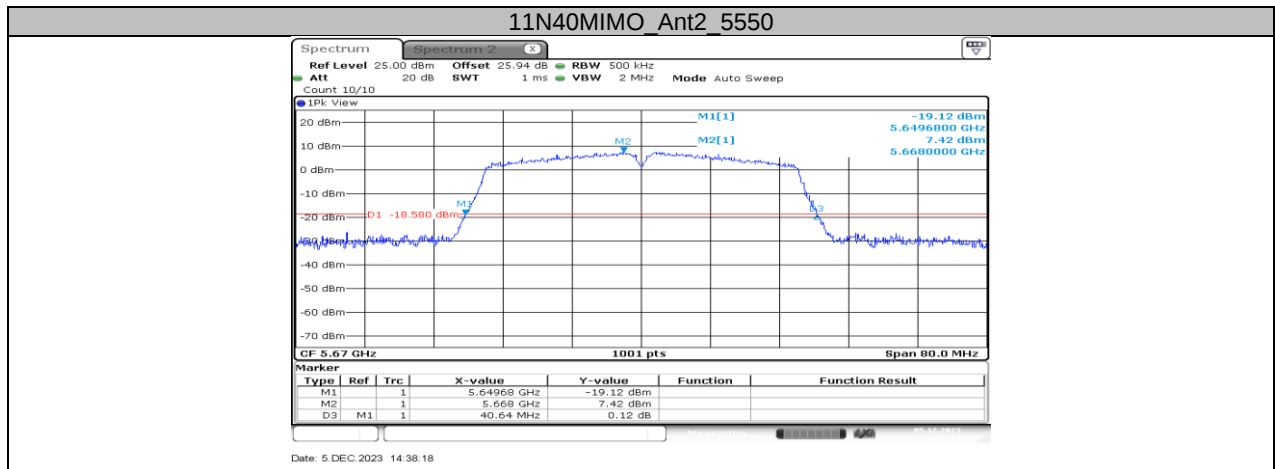


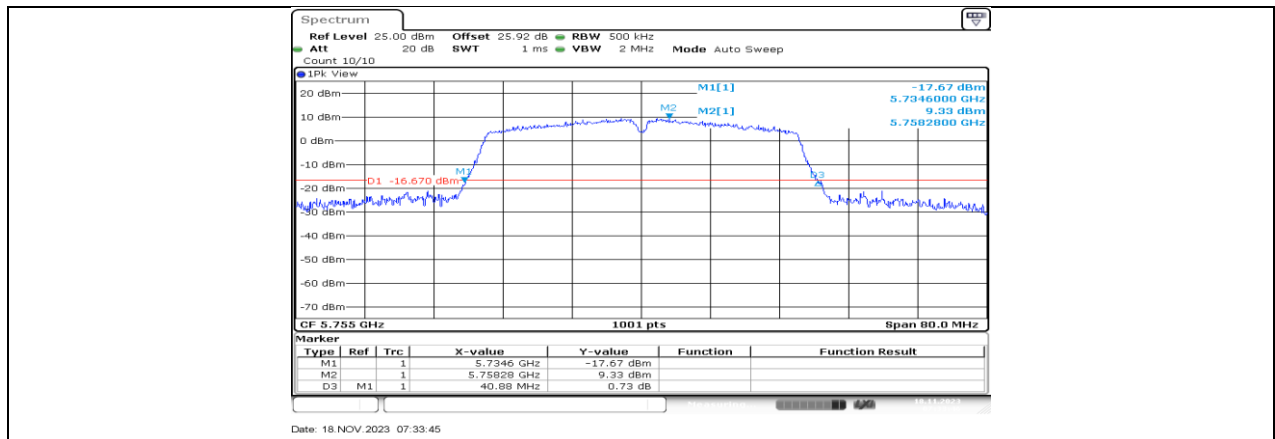
11N40MIMO_Ant2_5510



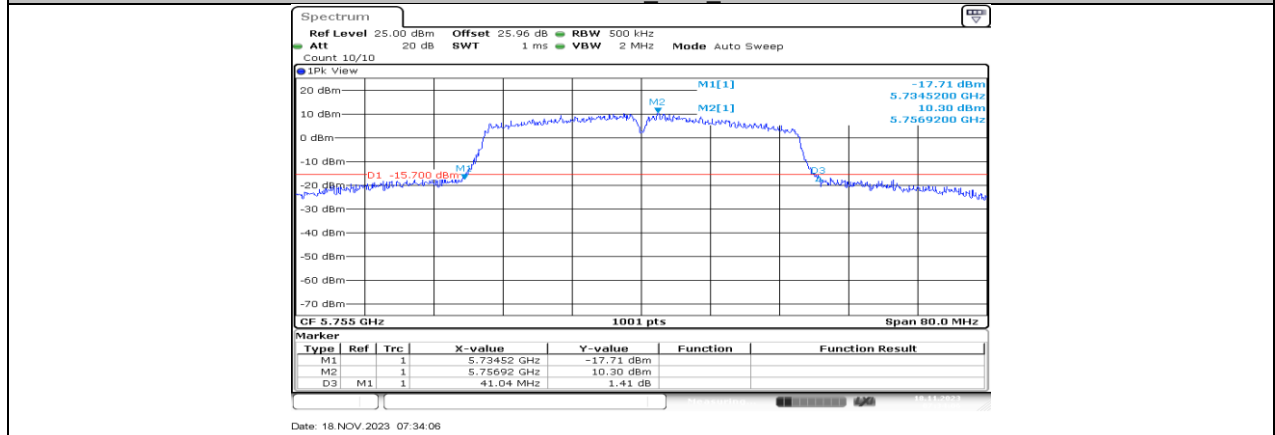
11N40MIMO_Ant1_5550



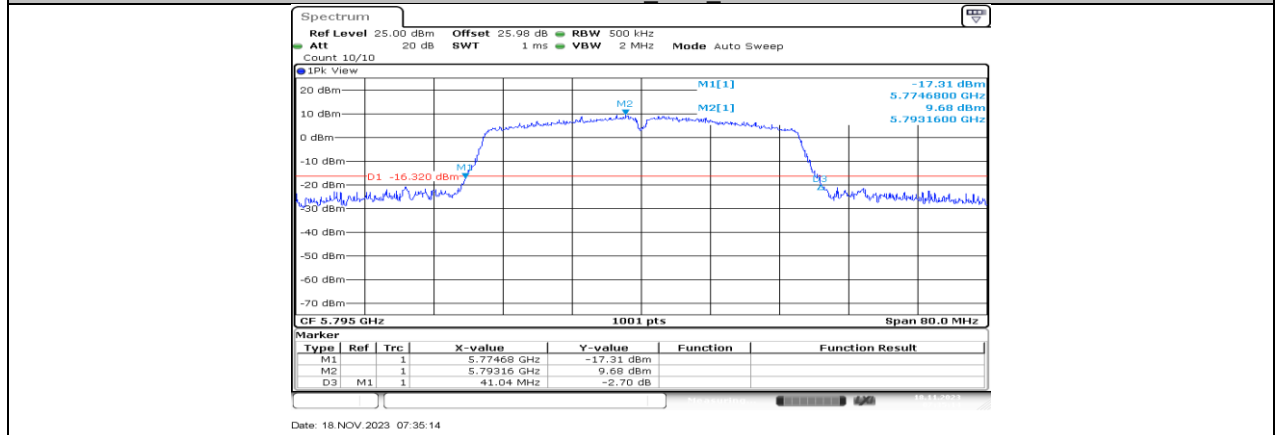




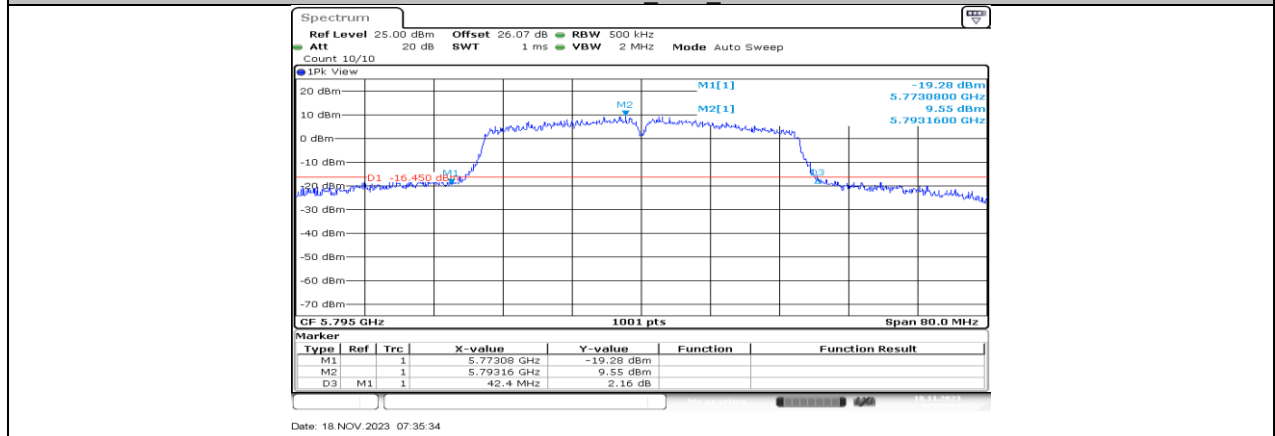
11N40MIMO_Ant1_5755

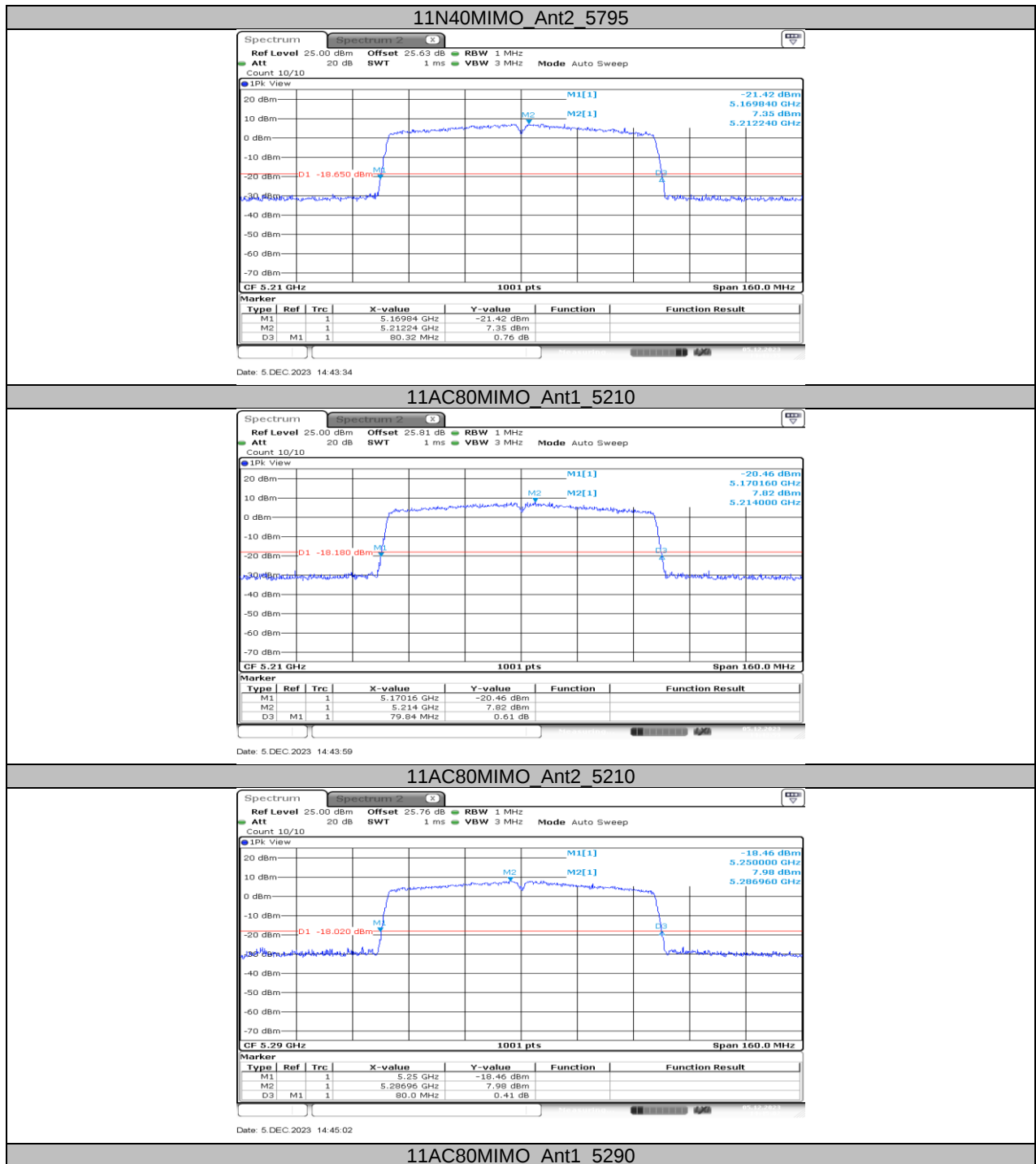


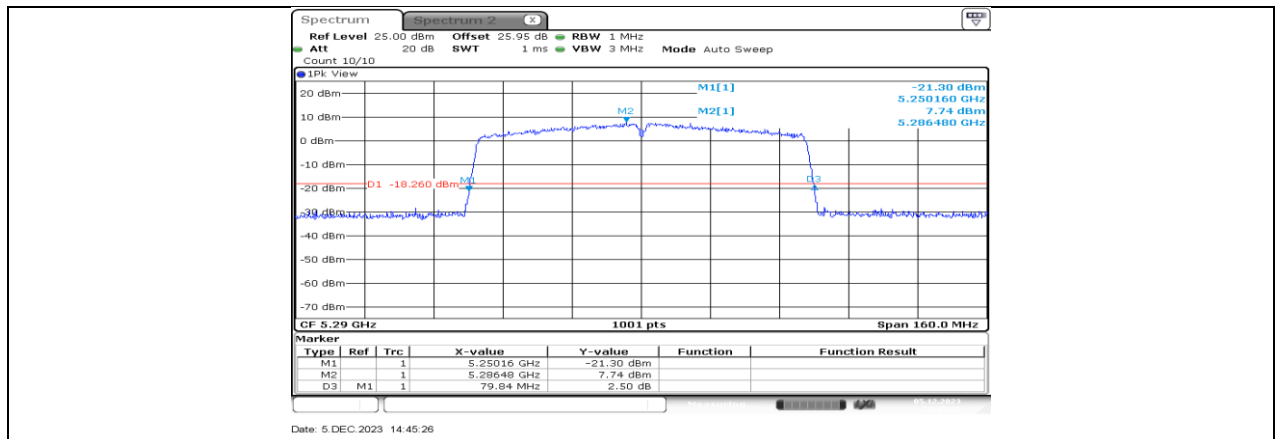
11N40MIMO_Ant2_5755



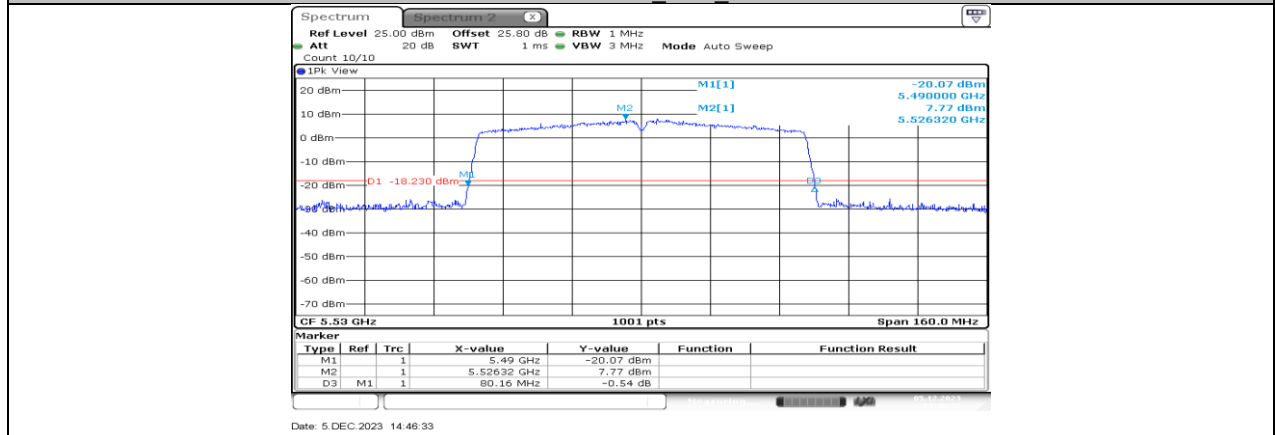
11N40MIMO_Ant1_5795



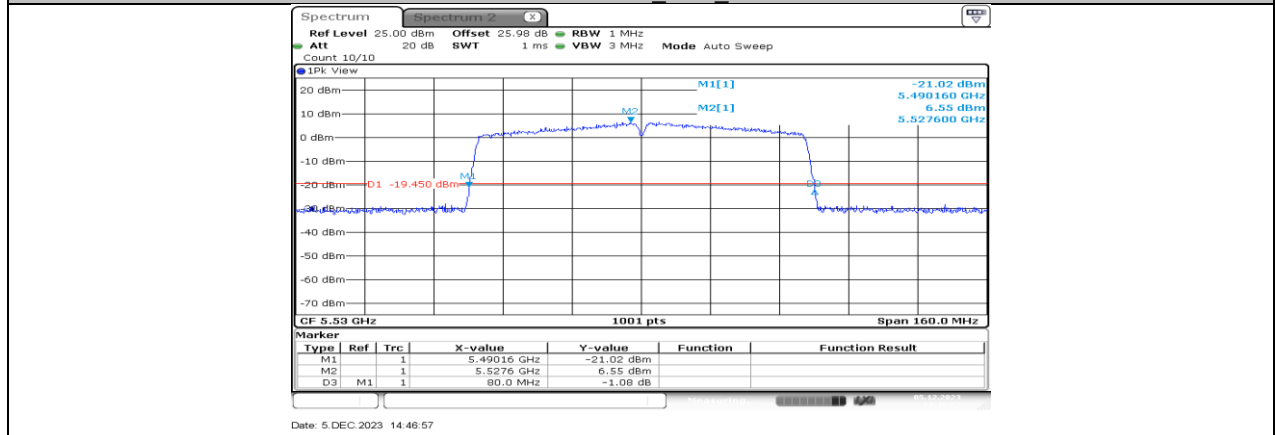




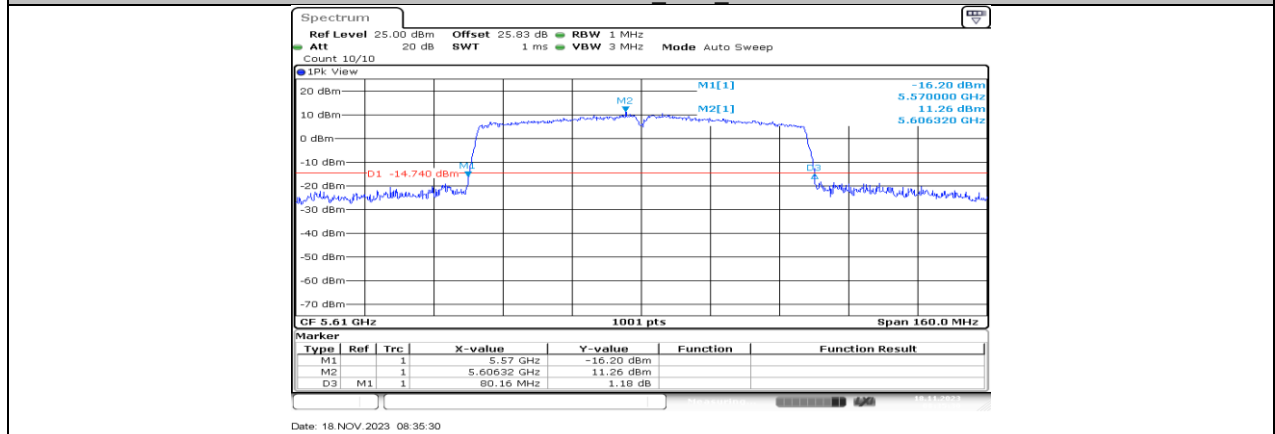
11AC80MIMO_Ant2_5290



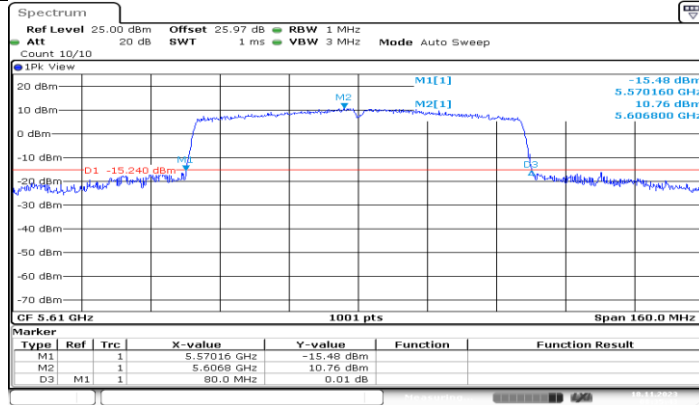
11AC80MIMO_Ant1_5530



11AC80MIMO_Ant2_5530

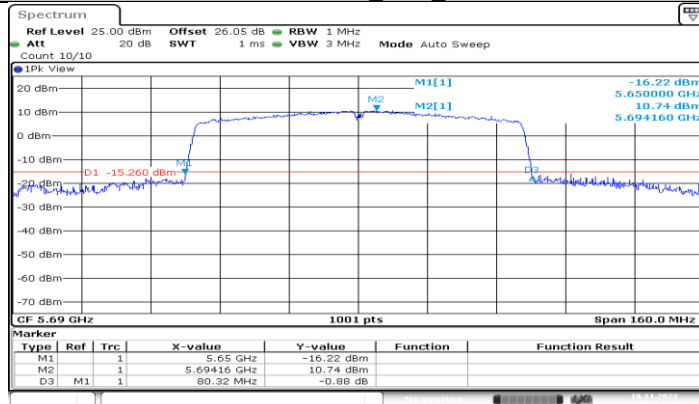


11AC80MIMO_Ant1_5610



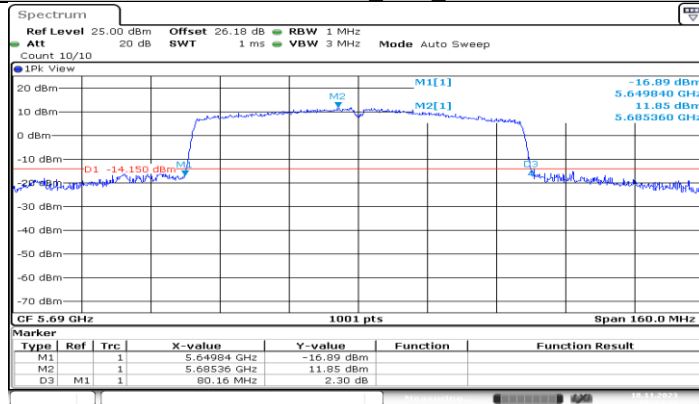
Date: 18.NOV.2023 08:35:43

11AC80MIMO_Ant2_5610



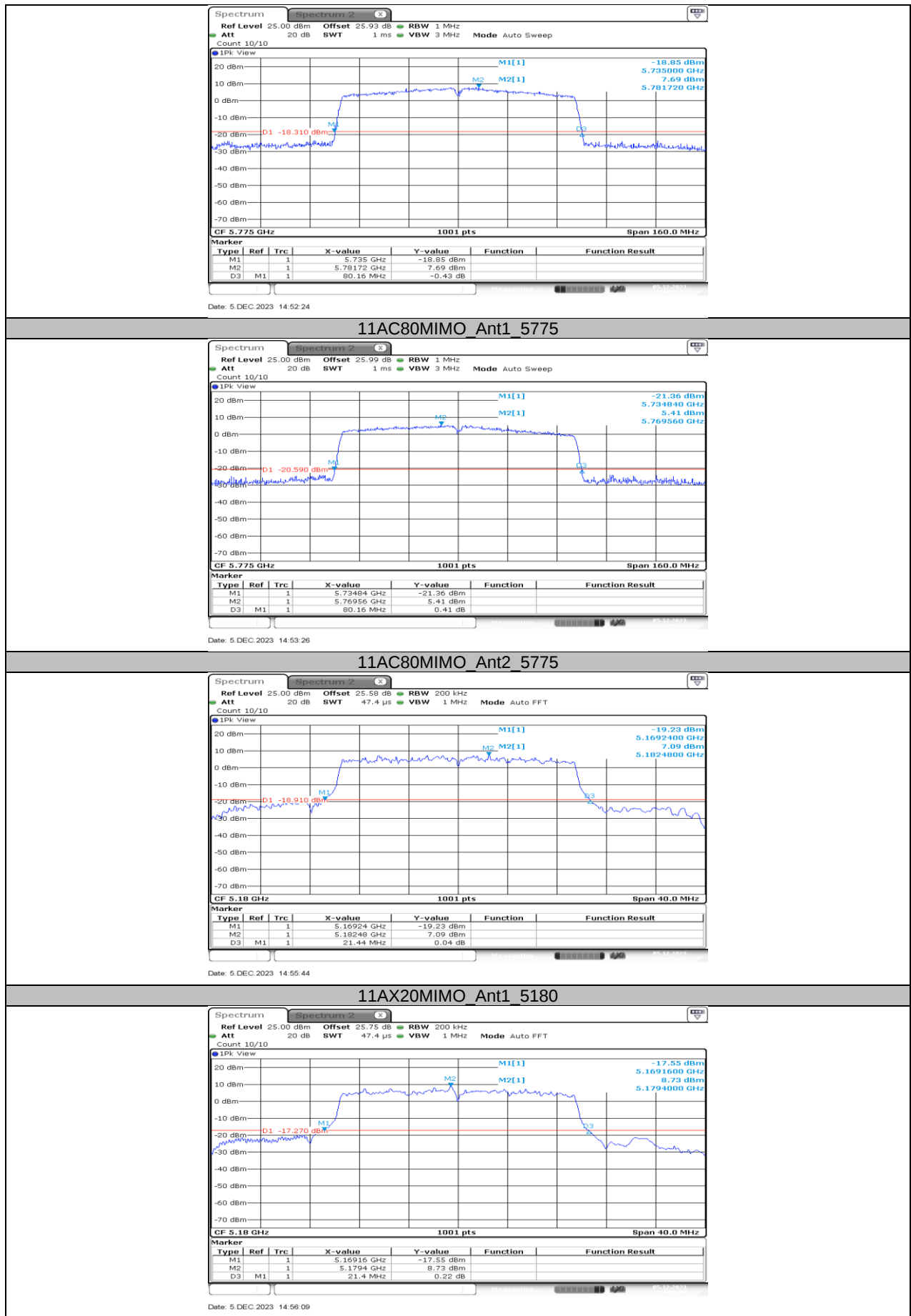
Date: 18.NOV.2023 08:44:15

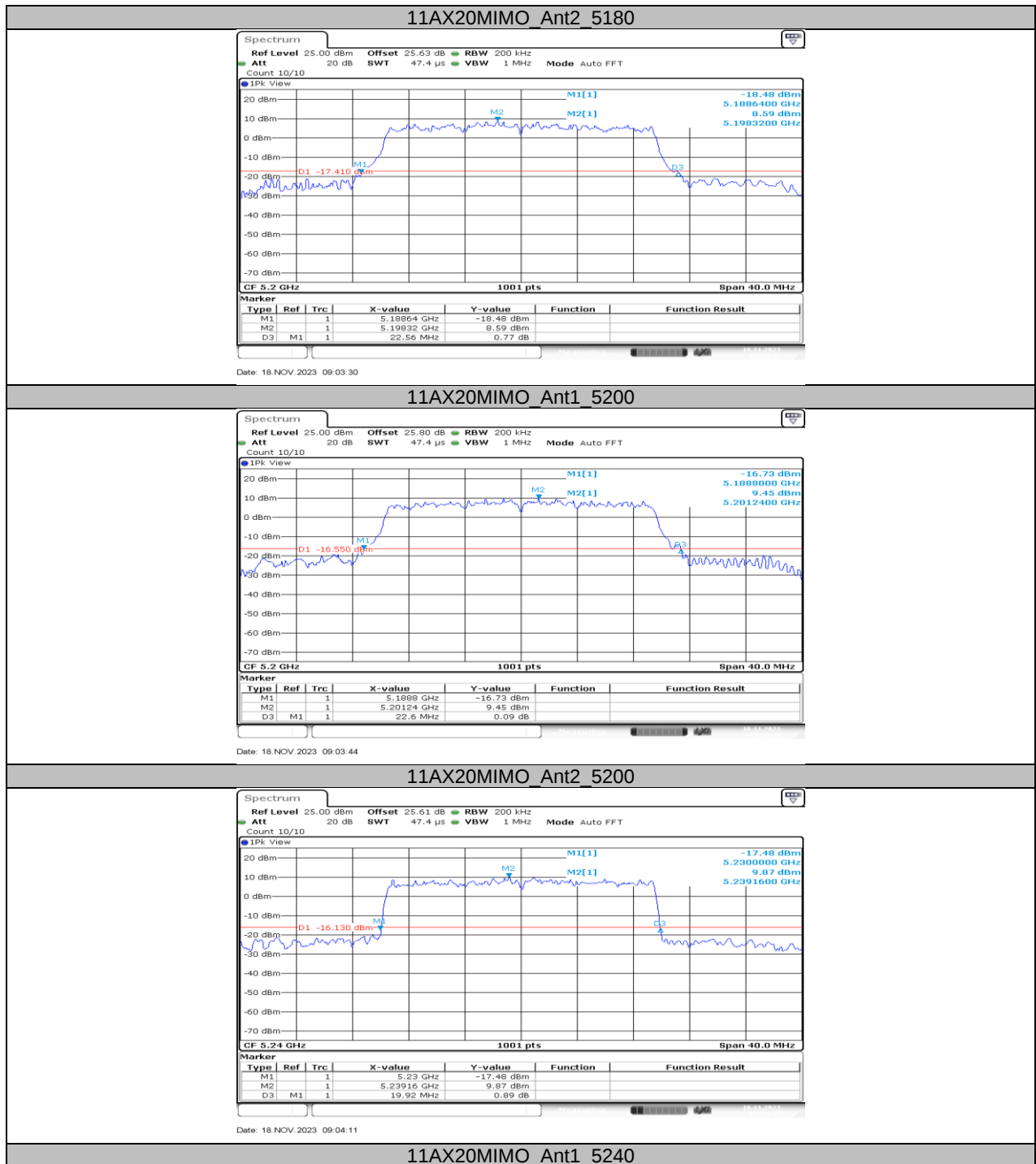
11AC80MIMO_Ant1_5690

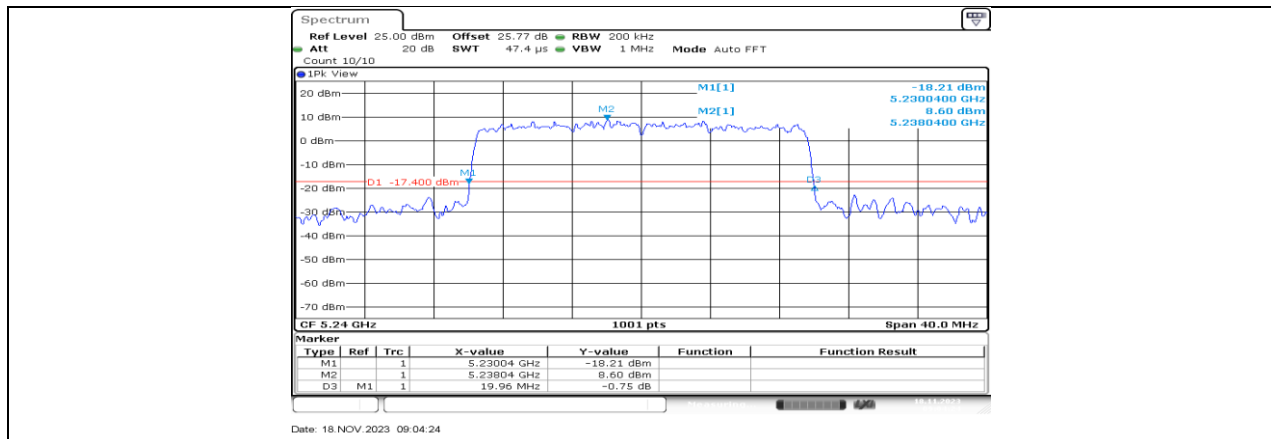


Date: 18.NOV.2023 08:44:37

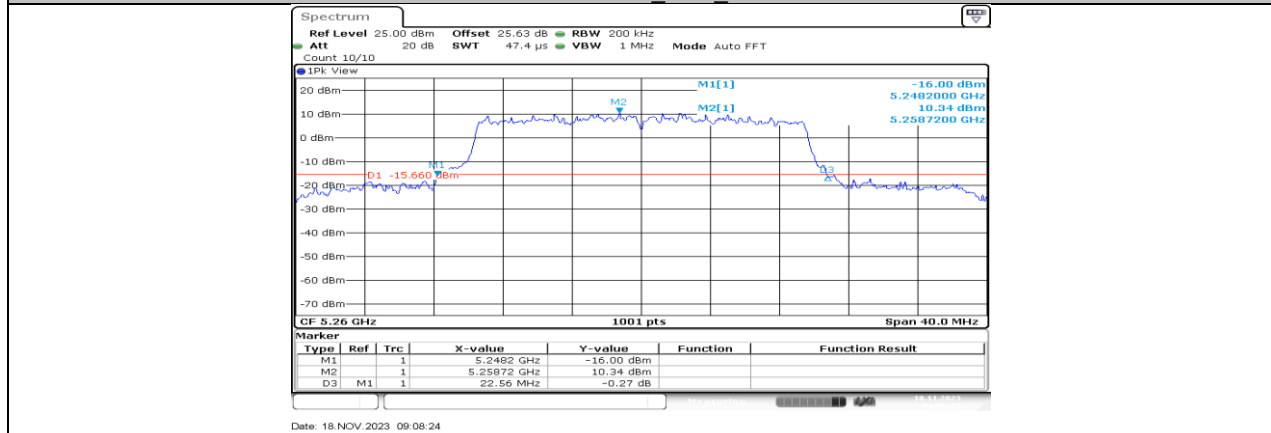
11AC80MIMO_Ant2_5690



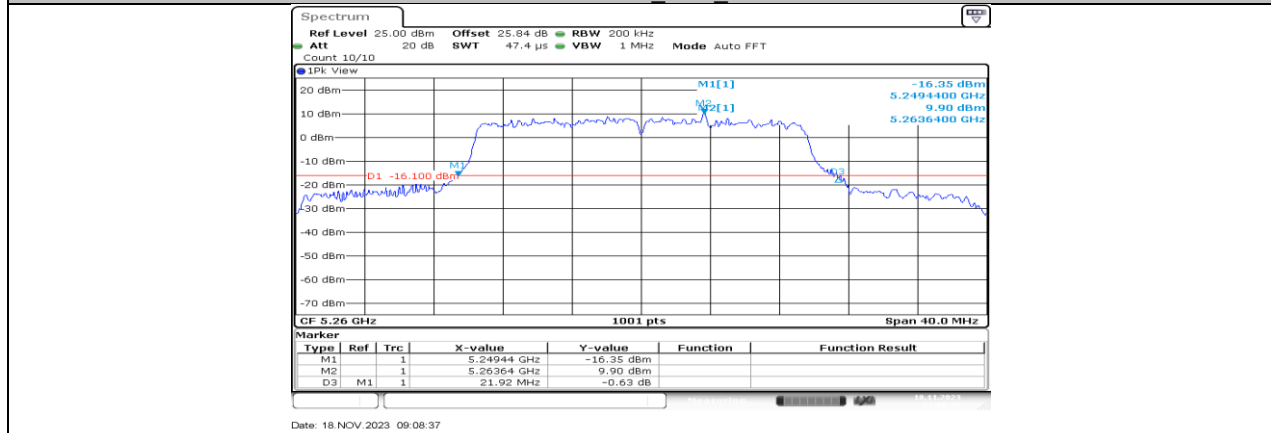




11AX20MIMO_Ant2_5240



11AX20MIMO_Ant1_5260



11AX20MIMO_Ant2_5260

