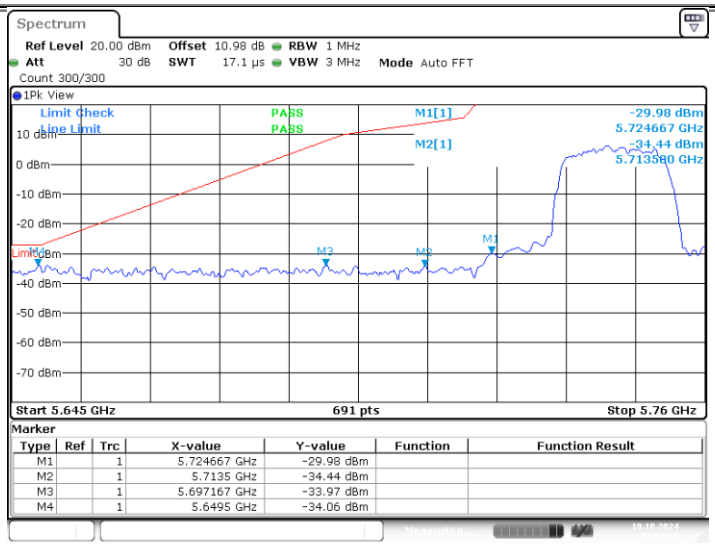
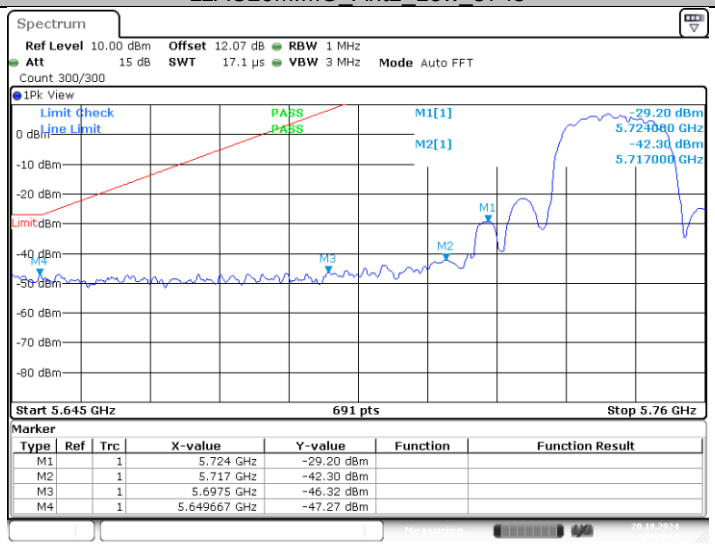
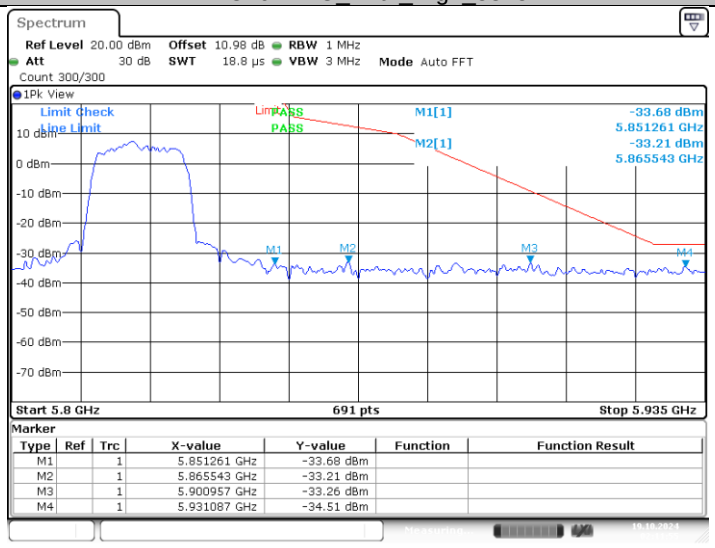


11AC20MIMO_Ant2_Low_5745



11AC20MIMO_Ant1_High_5825



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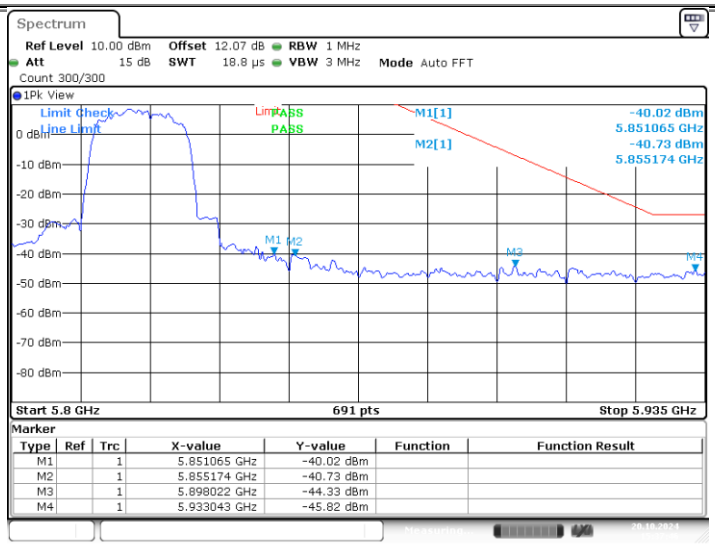
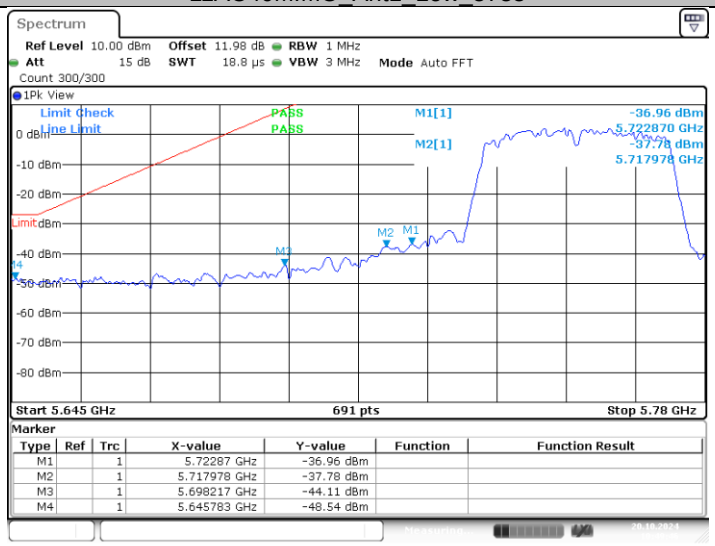
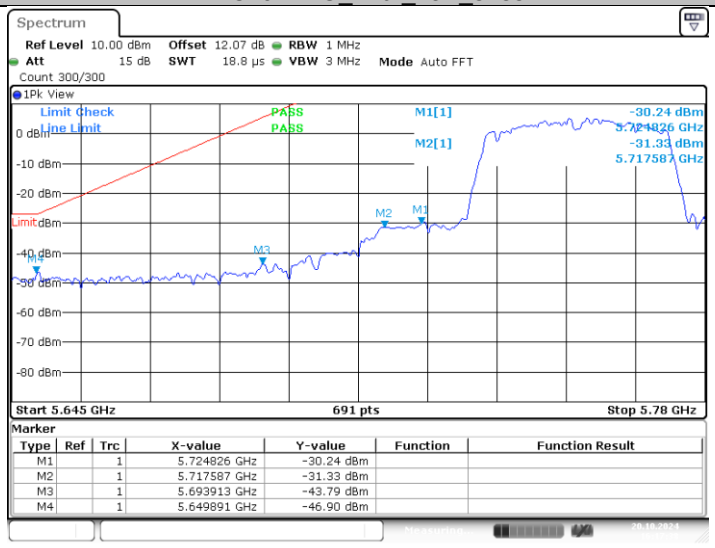


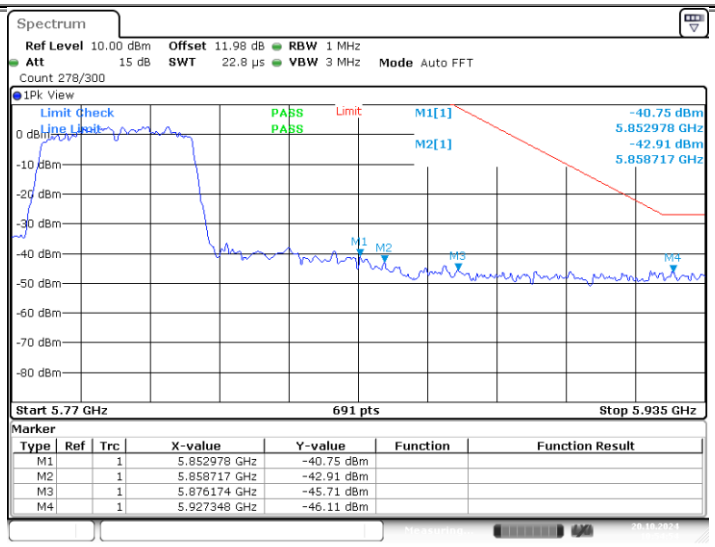
11AC40MIMO_Ant1_Low_5755



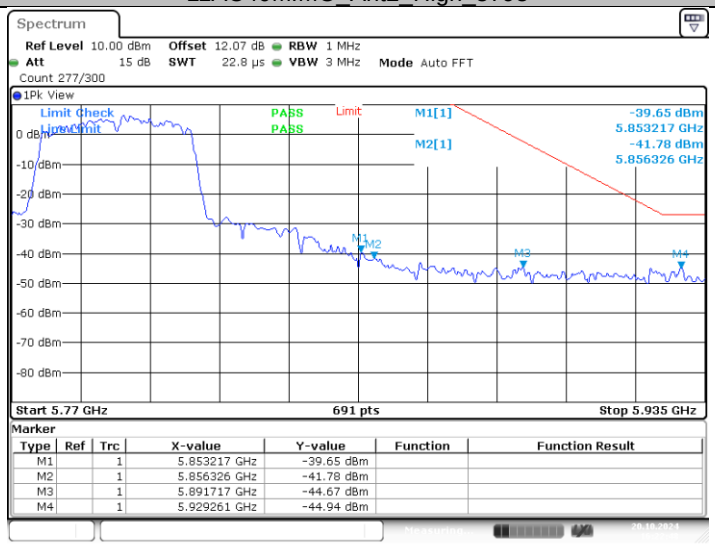
11AC40MIMO_Ant2_Low_5755



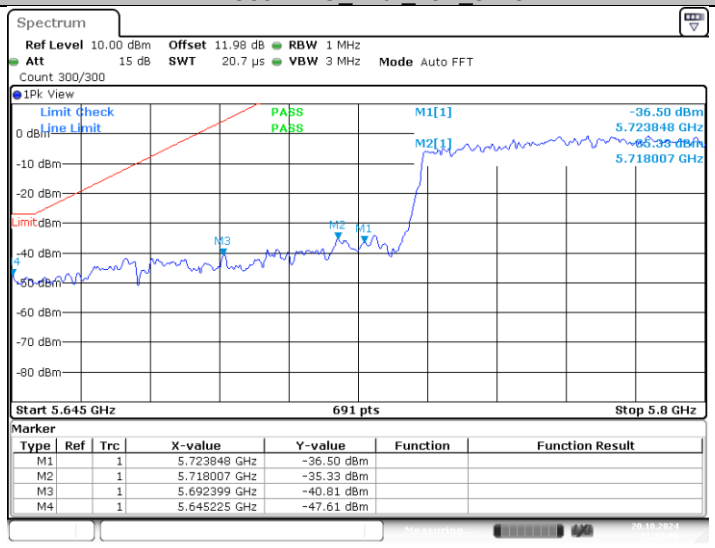
11AC40MIMO_Ant1_High_5795



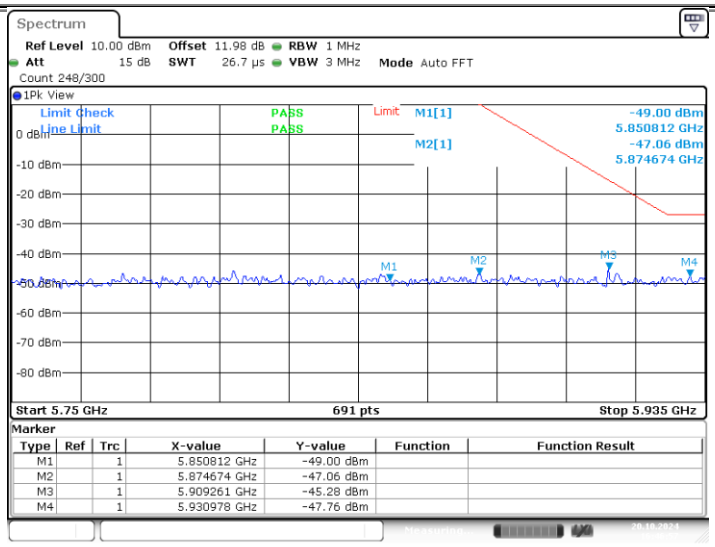
11AC40MIMO_Ant2_High_5795



11AC80MIMO_Ant1_Low_5775



11AC80MIMO_Ant1_High_5775



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.850812 GHz	-49.00 dBm		
M2		1	5.874674 GHz	-47.06 dBm		
M3		1	5.909261 GHz	-45.28 dBm		
M4		1	5.930978 GHz	-47.76 dBm		

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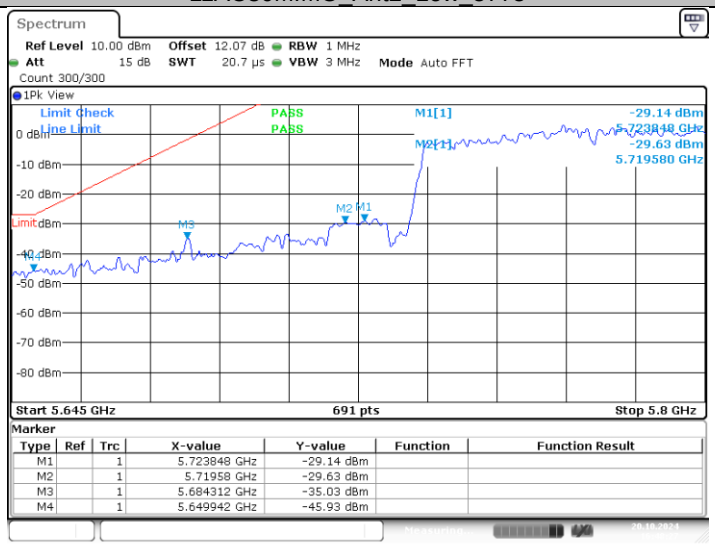
11AC80MIMO_Ant2_Low_5775



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.723848 GHz	-29.14 dBm		
M2		1	5.71958 GHz	-29.63 dBm		
M3		1	5.684312 GHz	-35.03 dBm		
M4		1	5.649942 GHz	-45.93 dBm		

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ABOVE 1000 MHz

Note: All the modes have been tested and recorded worst mode in the report.
Both antennas have been tested and only the worst data of antenna 1 is shown.

UNII-1

11A Channel 36 / 5180 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
10651	H	42.80	---	9.03	51.83	---	74	54	-22.17
15523	H	39.26	---	9.87	49.13	---	74	54	-24.87
---	H	---	---	---	---	---	---	---	---
10655	V	44.24	---	9.03	53.27	---	74	54	-20.73
15542	V	38.94	---	9.88	48.82	---	74	54	-25.18
---	V	---	---	---	---	---	---	---	---
11A Channel 40 / 5200 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
10601	H	44.15	---	9.09	53.24	---	74	54	-20.76
15600	H	43.65	---	9.91	53.56	---	74	54	-20.44
---	H	---	---	---	---	---	---	---	---
10676	V	44.72	---	9.09	53.81	---	74	54	-20.19
15645	V	41.56	---	9.91	51.47	---	74	54	-22.53
---	V	---	---	---	---	---	---	---	---
11AChannel 48 / 5240 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
10358	H	44.54	---	9.24	53.78	---	74	54	-20.22
15635	H	43.57	---	10.01	53.58	---	74	54	-20.42
---	H	---	---	---	---	---	---	---	---
10631	V	44.18	---	9.24	53.42	---	74	54	-20.58
15569	V	43.58	---	10.01	53.59	---	74	54	-20.41
---	V	---	---	---	---	---	---	---	---

UNII-2A

11A Channel 52 / 5260 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
10896	H	44.32	---	9.44	53.76	---	74	54	-20.24
15247	H	43.79	---	10.12	53.91	---	74	54	-20.09
---	H	---	---	---	---	---	---	---	---
10456	V	43.60	---	9.46	53.06	---	74	54	-20.94
15321	V	43.50	---	10.13	53.63	---	74	54	-20.37
---	V	---	---	---	---	---	---	---	---
11A Channel 56 / 5280 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
11478	H	43.66	---	9.51	53.17	---	74	54	-20.83
15365	H	43.33	---	10.51	53.84	---	74	54	-20.16
---	H	---	---	---	---	---	---	---	---
11478	V	44.07	---	9.51	53.58	---	74	54	-20.42
15023	V	43.29	---	10.49	53.78	---	74	54	-20.22
---	V	---	---	---	---	---	---	---	---
11AChannel 64 / 5320 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
11756	H	42.20	---	9.63	51.83	---	74	54	-22.17
15024	H	41.99	---	11.25	53.24	---	74	54	-20.76
---	H	---	---	---	---	---	---	---	---
11731	V	43.59	---	9.63	53.22	---	74	54	-20.78
15831	V	42.67	---	11.23	53.90	---	74	54	-20.10
---	V	---	---	---	---	---	---	---	---

UNII-2C

11A Channel 100 / 5500 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
10358	H	44.39	---	9.15	53.54	---	74	54	-20.46
15458	H	43.15	---	10.25	53.40	---	74	54	-20.60
---	H	---	---	---	---	---	---	---	---
10698	V	43.12	---	9.99	53.11	---	74	54	-20.89
15125	V	42.63	---	10.95	53.58	---	74	54	-20.42
---	V	---	---	---	---	---	---	---	---
11A Channel 116 / 5580 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
10835	H	40.93	---	10.01	50.94	---	74	54	-23.06
15458	H	41.79	---	10.79	52.58	---	74	54	-21.42
---	H	---	---	---	---	---	---	---	---
10631	V	43.81	---	10.05	53.86	---	74	54	-20.14
15059	V	40.91	---	11.93	52.84	---	74	54	-21.16
---	V	---	---	---	---	---	---	---	---
11AChannel 140 / 5700 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
10789	H	43.51	---	10.00	53.51	---	74	54	-20.49
16999	H	40.27	---	12.04	52.31	---	74	54	-21.69
---	H	---	---	---	---	---	---	---	---
10853	V	42.78	---	10.12	52.90	---	74	54	-21.10
16014	V	42.21	---	11.32	53.53	---	74	54	-20.47
---	V	---	---	---	---	---	---	---	---

UNII-3

11A Channel 149 / 5745 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
11751	H	43.87	---	9.81	53.68	---	74	54	-20.32
17304	H	40.64	---	12.96	53.60	---	74	54	-20.40
---	H	---	---	---	---	---	---	---	---
11328	V	43.25	---	9.81	53.06	---	74	54	-20.94
17631	V	40.32	---	12.95	53.27	---	74	54	-20.73
---	V	---	---	---	---	---	---	---	---
11A Channel 153 / 5765 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
11853	H	43.66	---	9.91	53.57	---	74	54	-20.43
18324	H	39.62	---	13.21	52.83	---	74	54	-21.17
---	H	---	---	---	---	---	---	---	---
11753	V	43.81	---	9.92	53.73	---	74	54	-20.27
18658	V	40.23	---	13.22	53.45	---	74	54	-20.55
---	V	---	---	---	---	---	---	---	---
11A Channel 165/ 5825 MHz									
Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
11403	H	43.88	---	10.01	53.89	---	74	54	-20.11
18125	H	38.75	---	14.01	52.76	---	74	54	-21.24
---	H	---	---	---	---	---	---	---	---
11863	V	42.98	---	9.98	52.96	---	74	54	-21.04
18725	V	39.19	---	13.99	53.18	---	74	54	-20.82
---	V	---	---	---	---	---	---	---	---

Notes:

1). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 40GHz (which is less) were made with an instrument using Peak detector mode.

2). Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

3). Worst case data at 1Mbps at IEEE 802.11a.

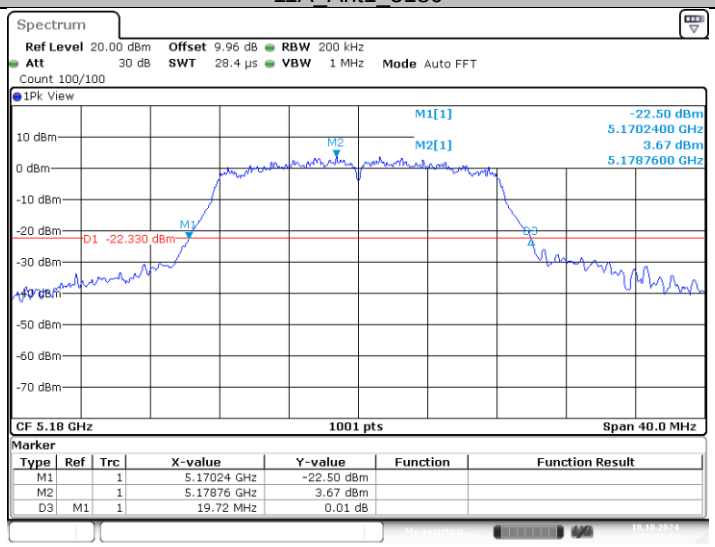
4). Measured Level = Reading Level + Factor, Margin = Measured Level – Limit

APPENDIXE -BANDWIDTH

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5180	19.72	5170.24	5189.96
	Ant2	5180	20.32	5170.12	5190.44
	Ant1	5200	19.88	5190.00	5209.88
	Ant2	5200	19.88	5190.04	5209.92
	Ant1	5240	19.88	5230.08	5249.96
	Ant2	5240	19.60	5230.20	5249.80
	Ant1	5260	19.60	5250.16	5269.76
	Ant2	5260	19.72	5250.12	5269.84
	Ant1	5280	19.64	5270.20	5289.84
	Ant2	5280	20.00	5270.00	5290.00
	Ant1	5320	19.84	5310.12	5329.96
	Ant2	5320	19.68	5310.12	5329.80
	Ant1	5500	19.84	5489.96	5509.80
	Ant2	5500	19.68	5490.12	5509.80
	Ant1	5580	20.12	5569.92	5590.04
	Ant2	5580	19.84	5569.96	5589.80
	Ant1	5700	19.96	5689.96	5709.92
	Ant2	5700	19.84	5690.00	5709.84
	Ant1	5745	19.68	5735.28	5754.96
	Ant2	5745	19.80	5735.04	5754.84
	Ant1	5785	19.88	5775.04	5794.92
	Ant2	5785	19.68	5775.20	5794.88
	Ant1	5825	20.04	5814.88	5834.92
	Ant2	5825	19.76	5815.12	5834.88
11N20MIMO	Ant1	5180	20.28	5169.88	5190.16
	Ant2	5180	20.24	5169.84	5190.08
	Ant1	5200	20.16	5189.92	5210.08
	Ant2	5200	20.12	5190.04	5210.16
	Ant1	5240	20.24	5229.84	5250.08
	Ant2	5240	20.08	5230.00	5250.08
	Ant1	5260	20.28	5249.96	5270.24
	Ant2	5260	20.16	5249.96	5270.12
	Ant1	5300	20.16	5289.92	5310.08
	Ant2	5300	20.20	5289.96	5310.16
	Ant1	5320	20.20	5309.84	5330.04
	Ant2	5320	20.12	5309.96	5330.08
	Ant1	5500	20.32	5489.84	5510.16
	Ant2	5500	20.32	5489.80	5510.12
	Ant1	5600	20.12	5589.92	5610.04
	Ant2	5600	20.20	5589.92	5610.12
	Ant1	5700	20.12	5689.96	5710.08
	Ant2	5700	20.04	5689.92	5709.96
	Ant1	5745	20.16	5734.96	5755.12
	Ant2	5745	20.16	5734.92	5755.08
	Ant1	5785	20.08	5774.96	5795.04
	Ant2	5785	20.24	5774.88	5795.12
	Ant1	5825	20.04	5814.96	5835.00
	Ant2	5825	20.28	5814.72	5835.00
11N40MIMO	Ant1	5190	40.64	5169.52	5210.16
	Ant2	5190	40.80	5169.68	5210.48
	Ant1	5230	40.72	5209.52	5250.24
	Ant2	5230	40.72	5209.68	5250.40
	Ant1	5270	41.36	5249.36	5290.72
	Ant2	5270	40.40	5249.84	5290.24
	Ant1	5310	40.72	5289.60	5330.32
	Ant2	5310	40.16	5289.84	5330.00
	Ant1	5510	41.04	5489.28	5530.32
	Ant2	5510	40.80	5489.28	5530.08
	Ant1	5590	40.48	5569.68	5610.16
	Ant2	5590	40.88	5569.36	5610.24
	Ant1	5670	40.64	5649.68	5690.32

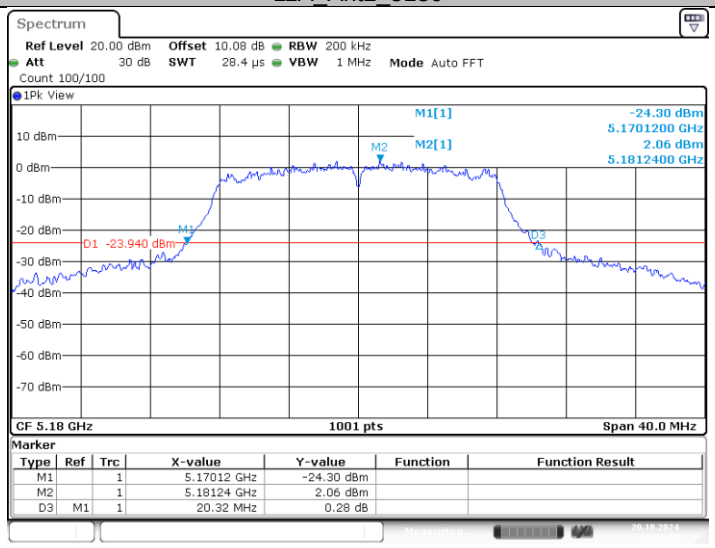
	Ant2	5670	40.24	5649.92	5690.16
	Ant1	5755	53.76	5734.52	5788.28
	Ant2	5755	41.92	5734.68	5776.60
	Ant1	5795	40.48	5774.84	5815.32
	Ant2	5795	40.48	5774.84	5815.32
11AC20MIMO	Ant1	5180	20.00	5169.96	5189.96
	Ant2	5180	20.20	5169.96	5190.16
	Ant1	5200	20.32	5189.76	5210.08
	Ant2	5200	19.92	5190.08	5210.00
	Ant1	5240	20.16	5229.88	5250.04
	Ant2	5240	19.84	5230.08	5249.92
	Ant1	5260	20.12	5249.92	5270.04
	Ant2	5260	19.96	5250.04	5270.00
	Ant1	5300	20.32	5289.80	5310.12
	Ant2	5300	19.96	5290.04	5310.00
	Ant1	5320	20.00	5310.00	5330.00
	Ant2	5320	19.80	5310.04	5329.84
	Ant1	5500	20.08	5489.96	5510.04
	Ant2	5500	20.12	5489.88	5510.00
	Ant1	5600	20.24	5589.80	5610.04
	Ant2	5600	19.76	5590.04	5609.80
	Ant1	5700	20.12	5689.84	5709.96
	Ant2	5700	19.96	5689.96	5709.92
	Ant1	5745	20.32	5734.76	5755.08
	Ant2	5745	20.44	5734.84	5755.28
	Ant1	5785	20.04	5774.96	5795.00
	Ant2	5785	20.16	5774.92	5795.08
	Ant1	5825	20.28	5814.84	5835.12
	Ant2	5825	20.16	5814.88	5835.04
11AC40MIMO	Ant1	5190	40.00	5169.92	5209.92
	Ant2	5190	40.88	5169.60	5210.48
	Ant1	5230	40.08	5209.76	5249.84
	Ant2	5230	40.64	5209.60	5250.24
	Ant1	5270	39.60	5250.24	5289.84
	Ant2	5270	40.32	5250.08	5290.40
	Ant1	5310	39.76	5290.08	5329.84
	Ant2	5310	40.24	5289.76	5330.00
	Ant1	5510	40.24	5489.92	5530.16
	Ant2	5510	40.24	5489.84	5530.08
	Ant1	5590	39.76	5570.24	5610.00
	Ant2	5590	41.04	5569.12	5610.16
	Ant1	5670	40.24	5650.00	5690.24
	Ant2	5670	41.12	5649.44	5690.56
	Ant1	5755	39.60	5735.24	5774.84
	Ant2	5755	40.16	5735.00	5775.16
	Ant1	5795	40.08	5775.00	5815.08
	Ant2	5795	40.88	5774.68	5815.56
11AC80MIMO	Ant1	5210	80.80	5169.20	5250.00
	Ant2	5210	79.84	5170.16	5250.00
	Ant1	5290	80.00	5250.00	5330.00
	Ant2	5290	79.84	5250.16	5330.00
	Ant1	5530	81.60	5489.04	5570.64
	Ant2	5530	80.80	5489.04	5569.84
	Ant1	5610	80.64	5569.20	5649.84
	Ant2	5610	80.80	5570.00	5650.80
	Ant1	5775	80.00	5735.16	5815.16
	Ant2	5775	79.84	5735.16	5815.00

11A_Ant1_5180



Date: 18.OCT.2024 22:10:14

11A_Ant2_5180



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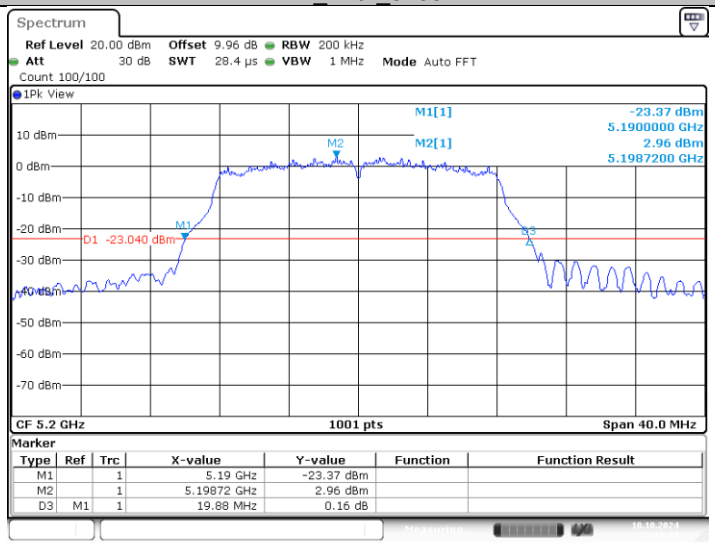
11A_Ant1_5200



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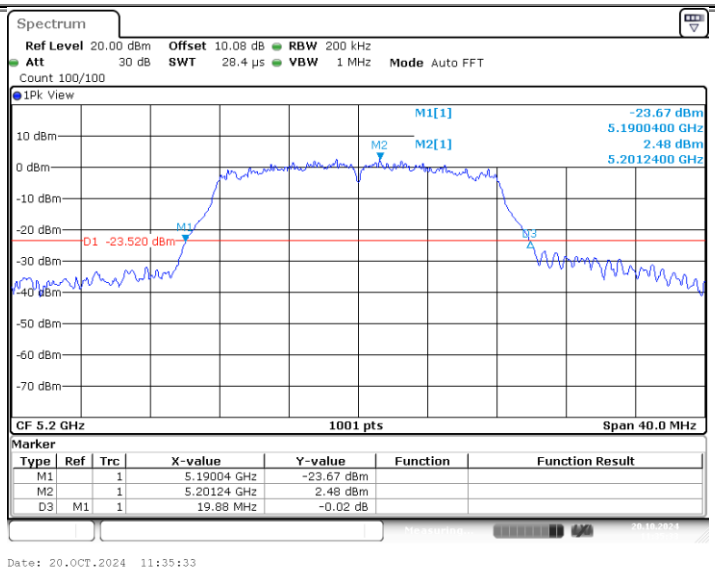
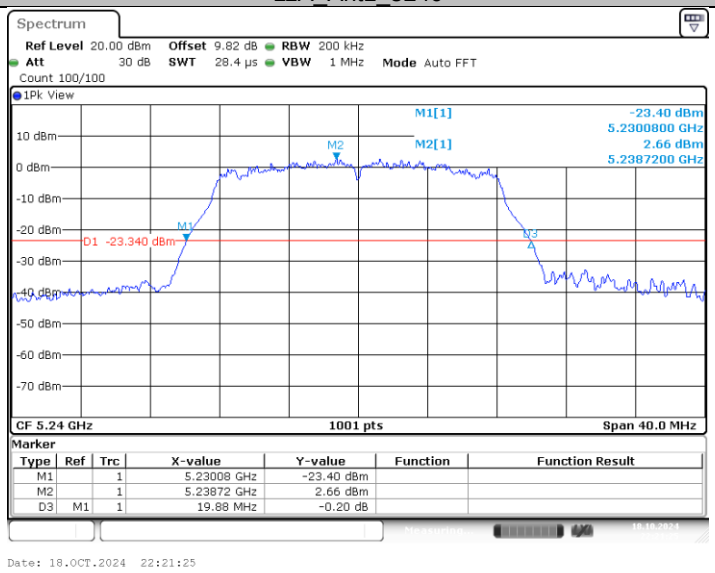
11A_Ant2_5200



11A_Ant1_5240



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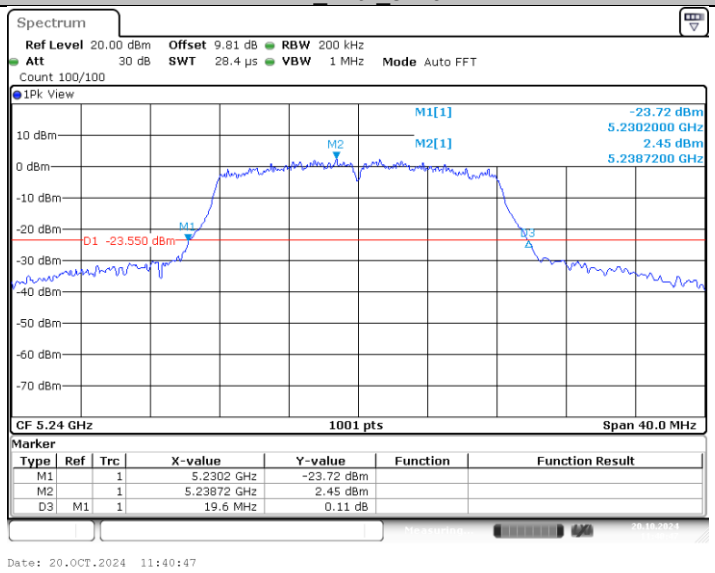

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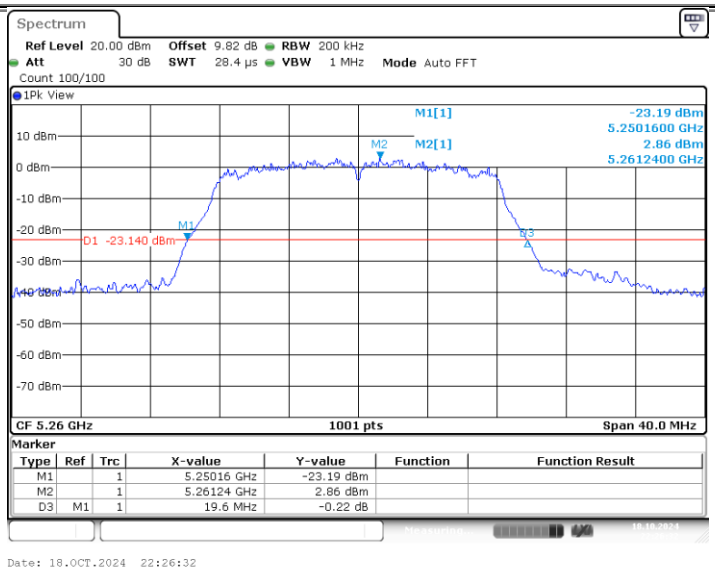

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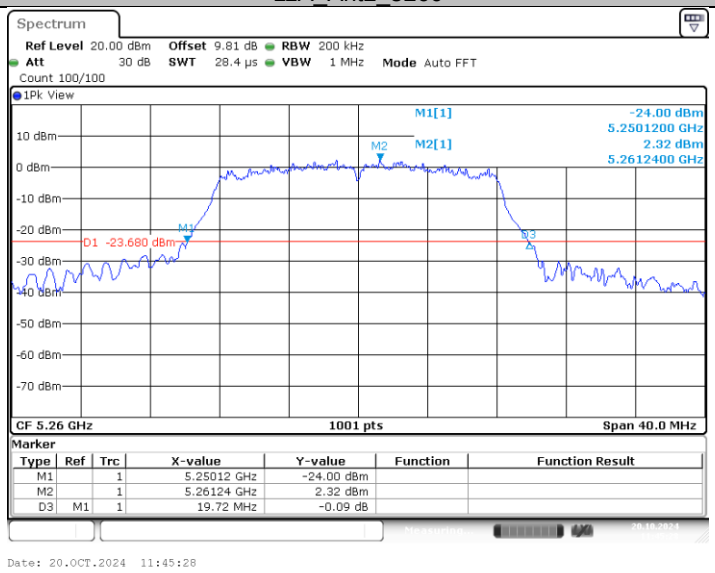

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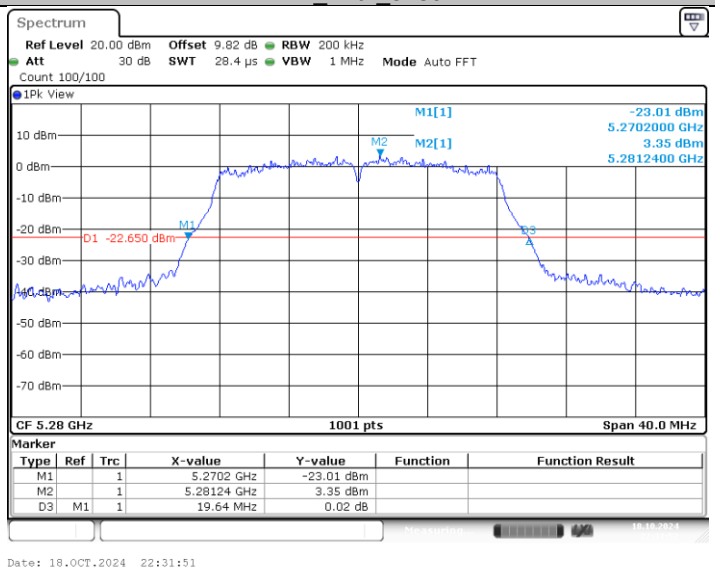

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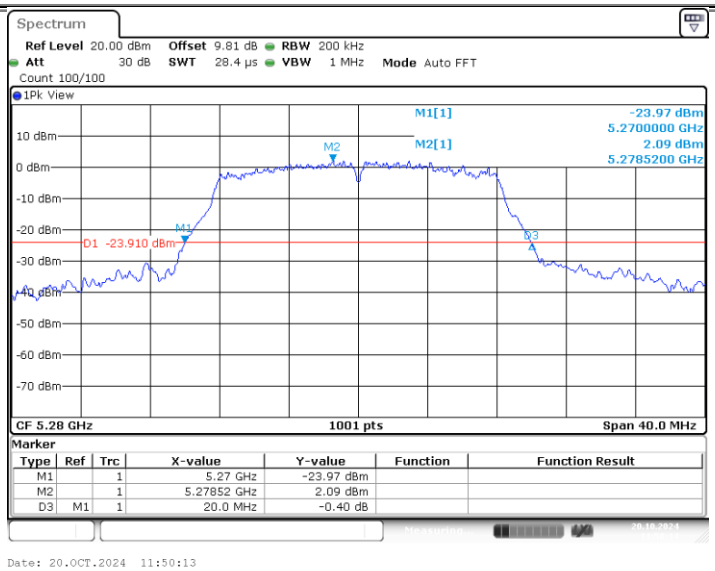

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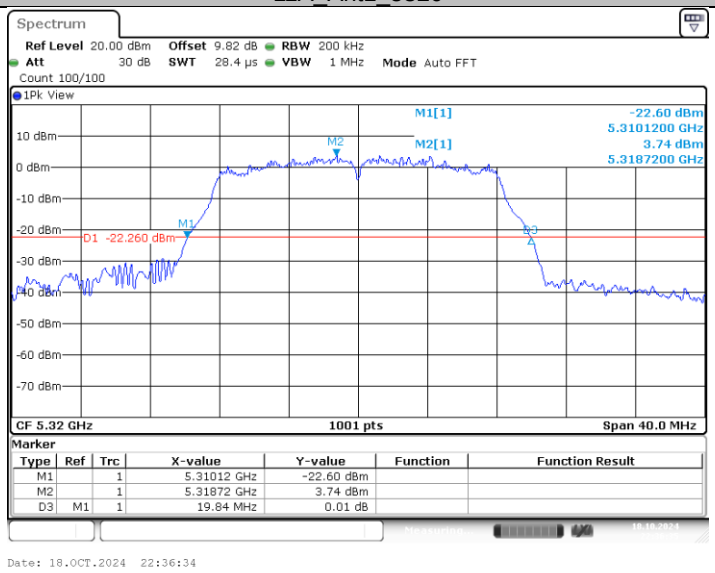

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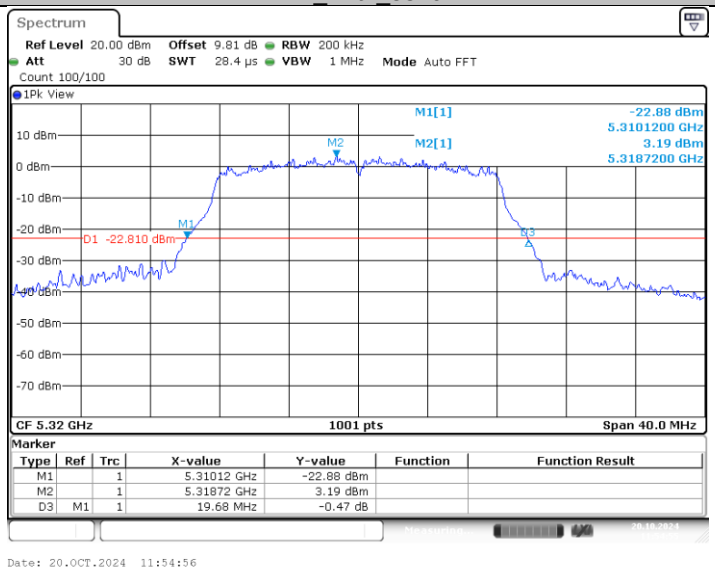

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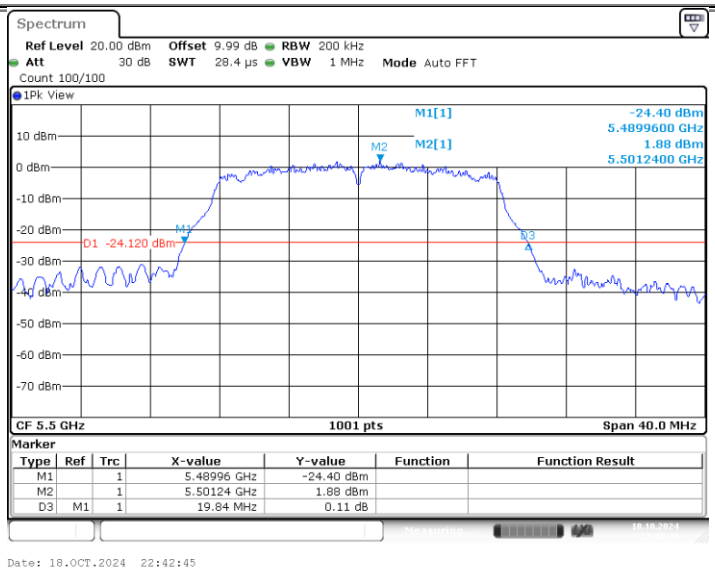

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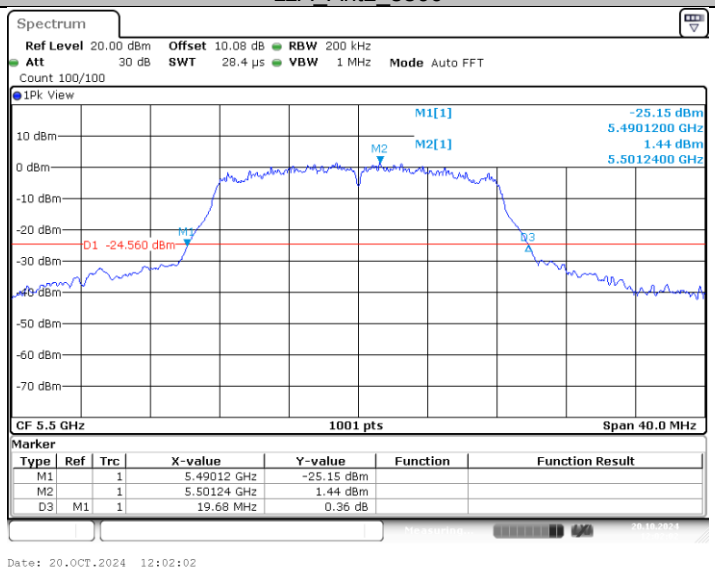

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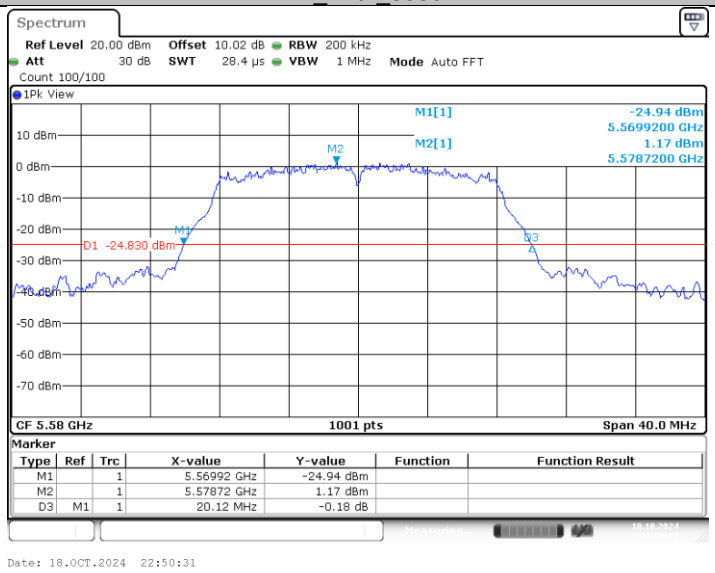

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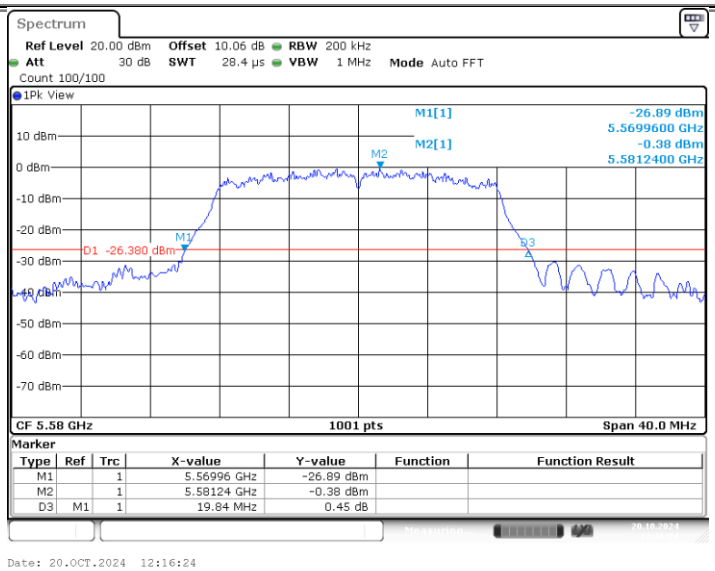

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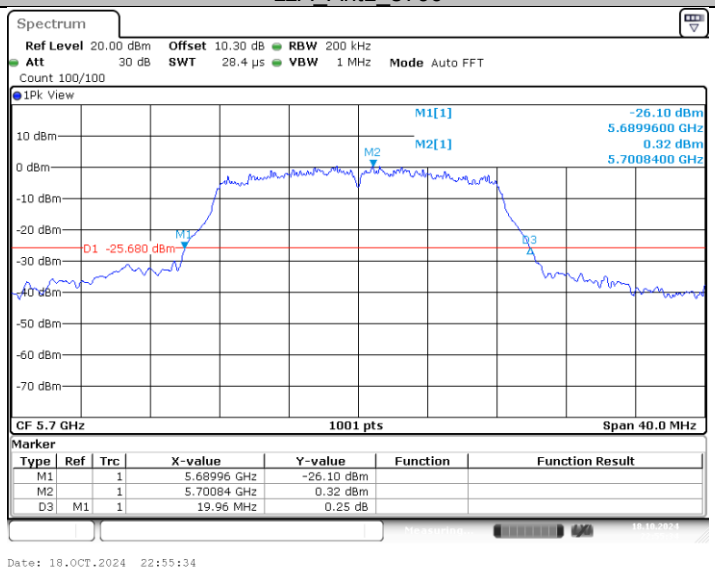
11A_Ant1_5700



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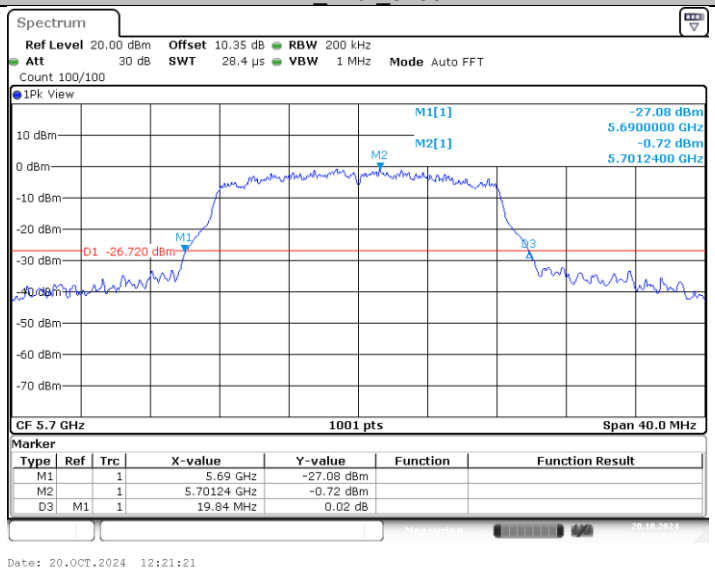
11A_Ant2_5700



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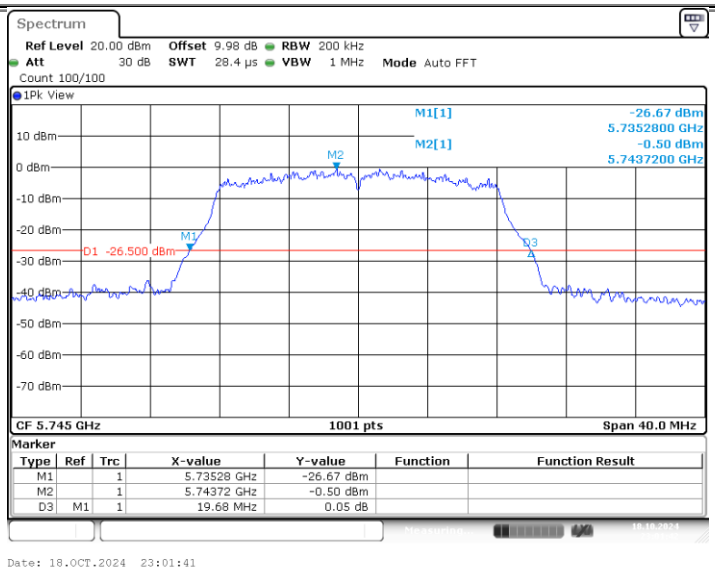

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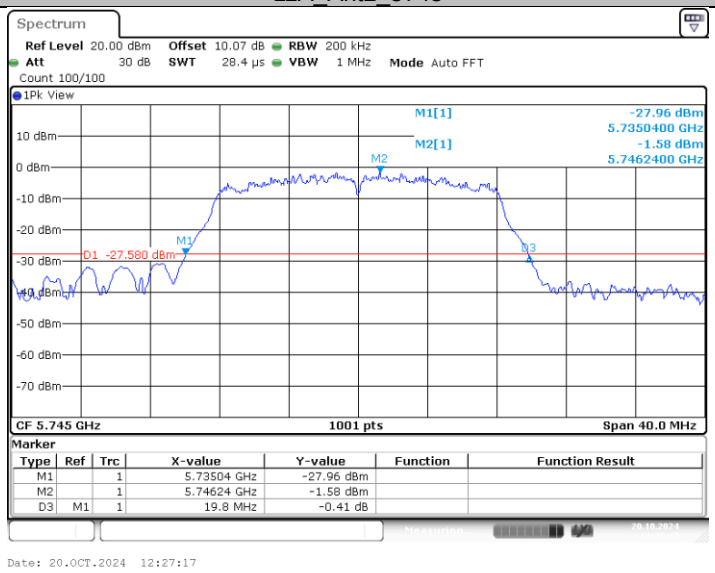

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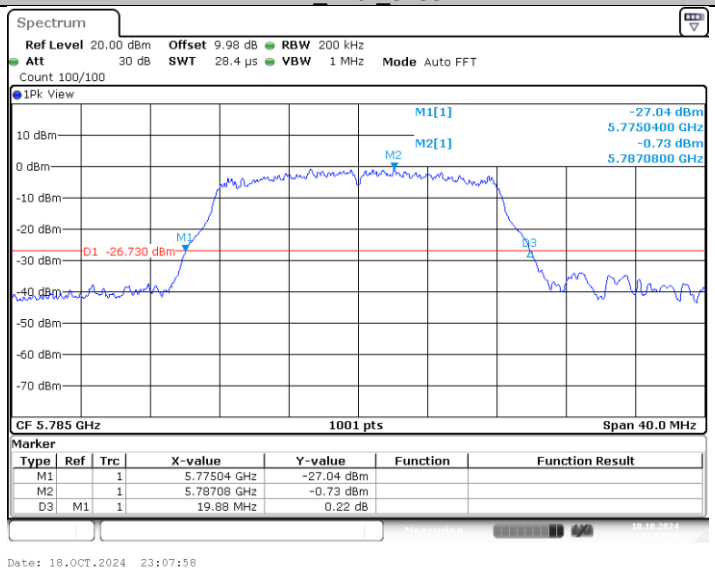

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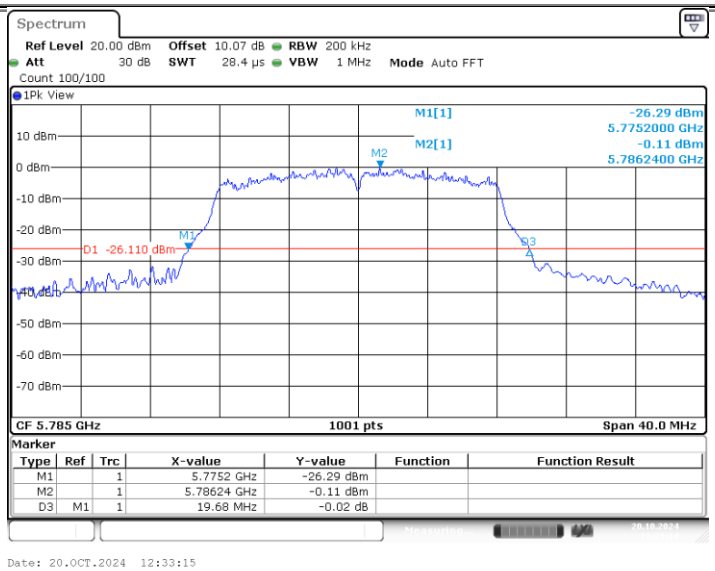

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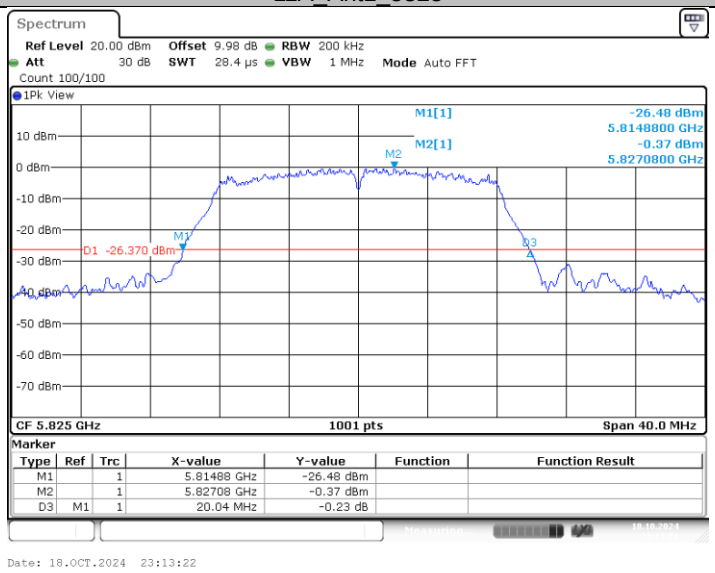

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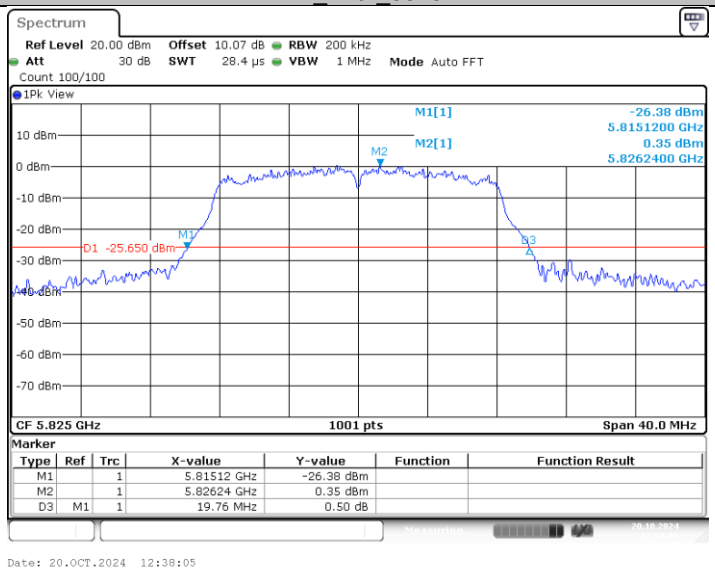

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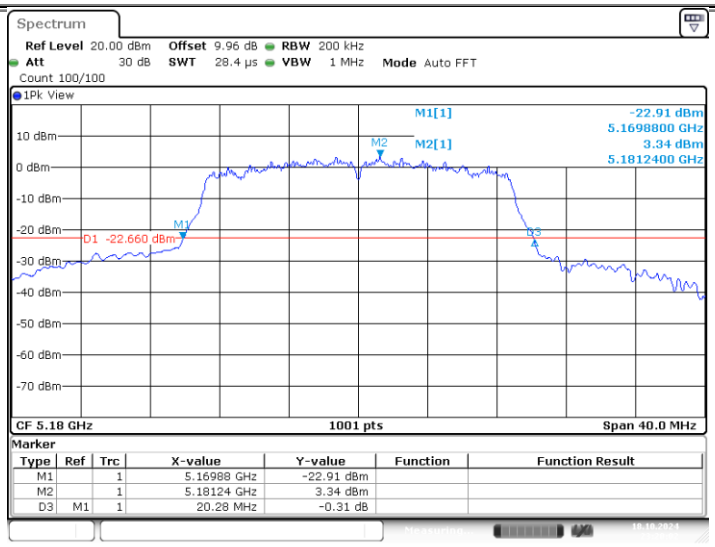
11N20MIMO_Ant1_5180



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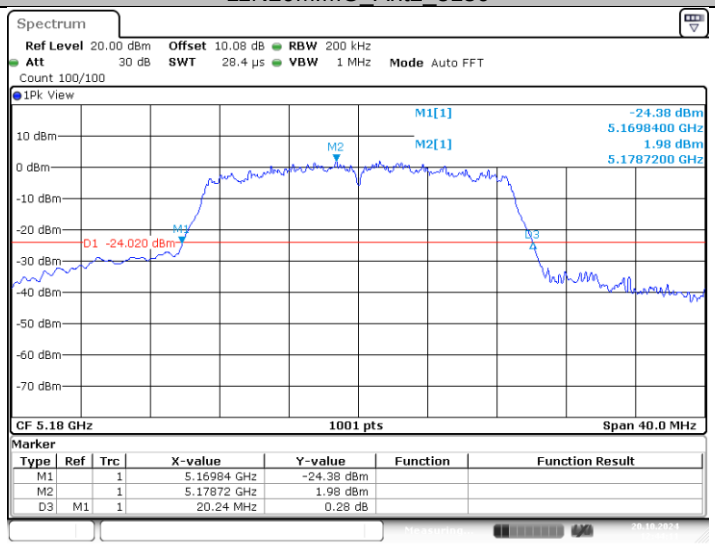

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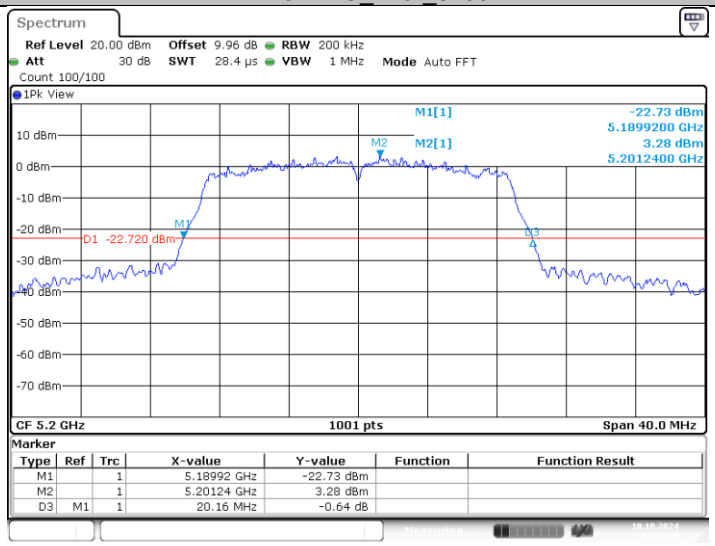

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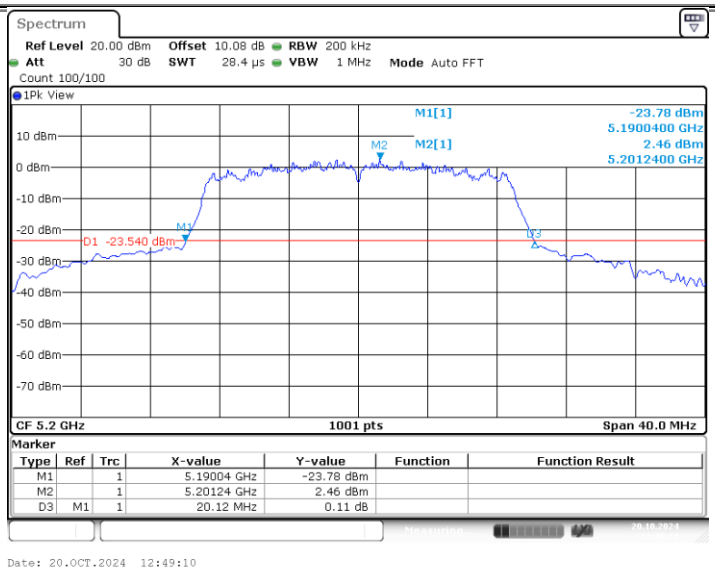

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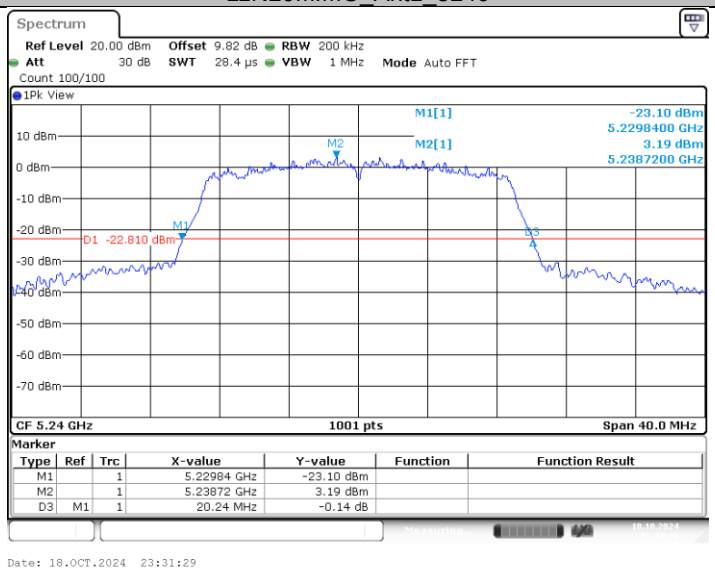

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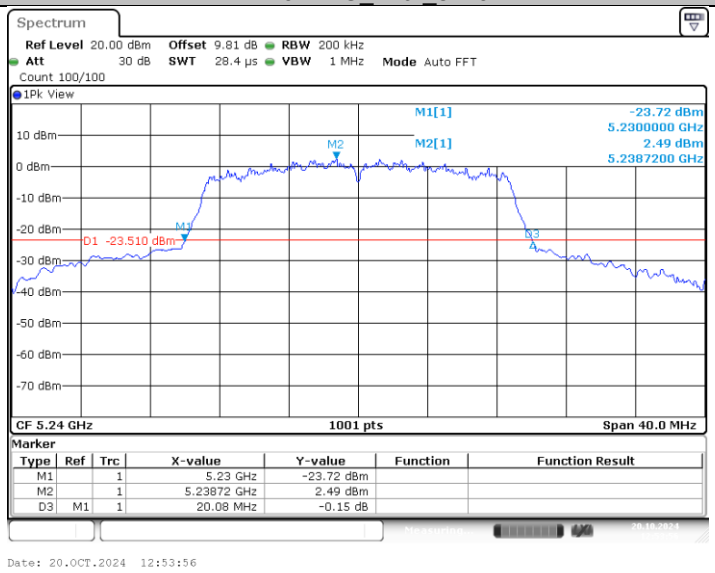

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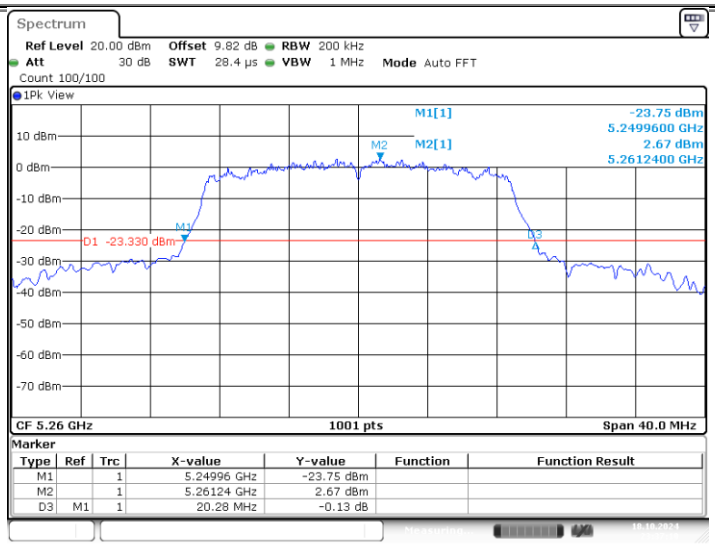

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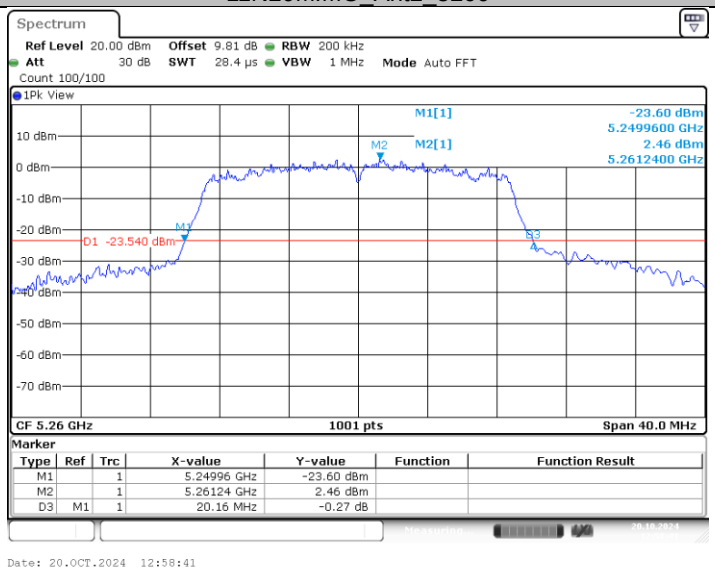

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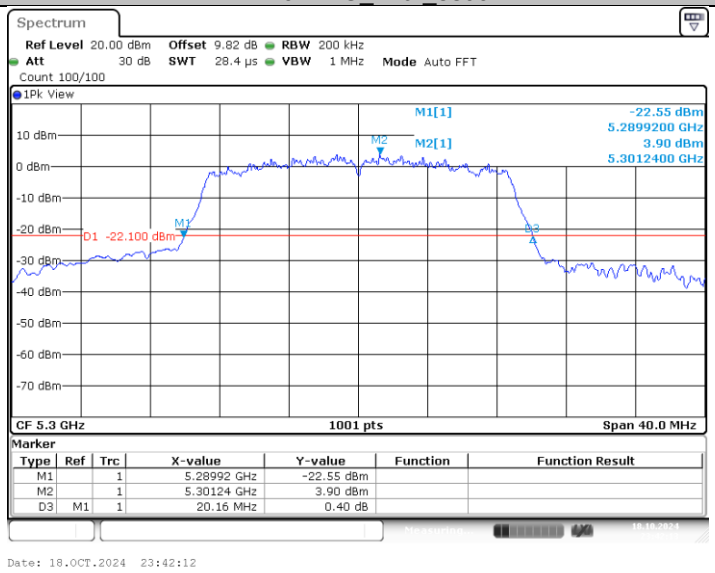

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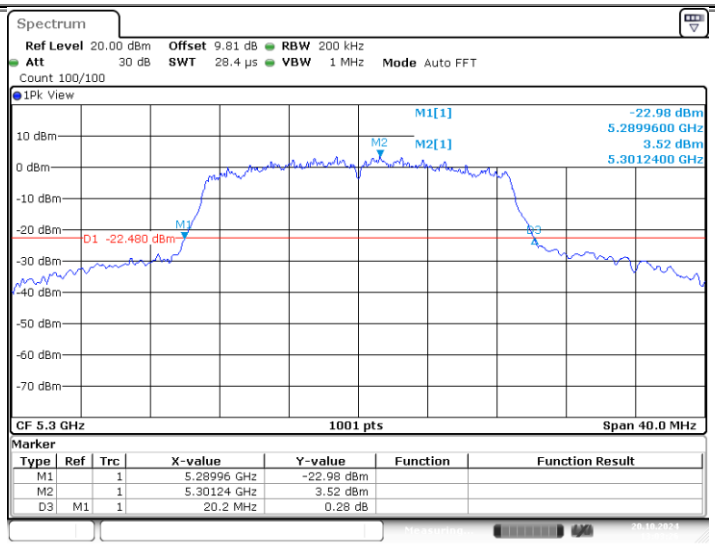

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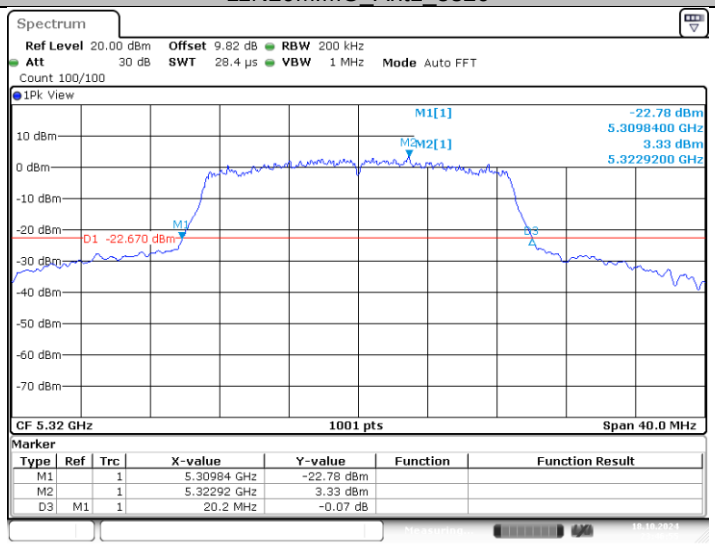

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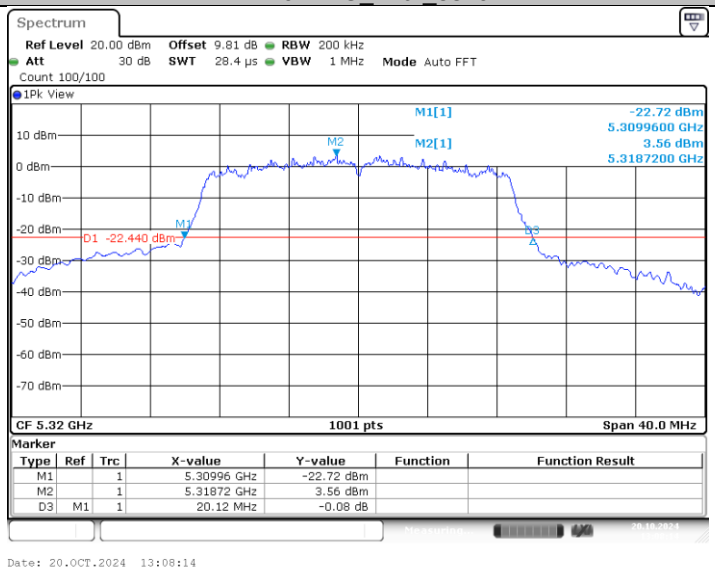

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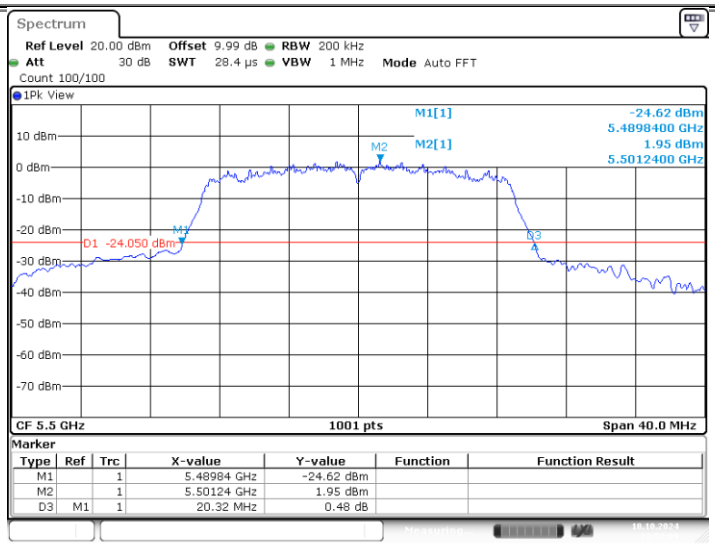

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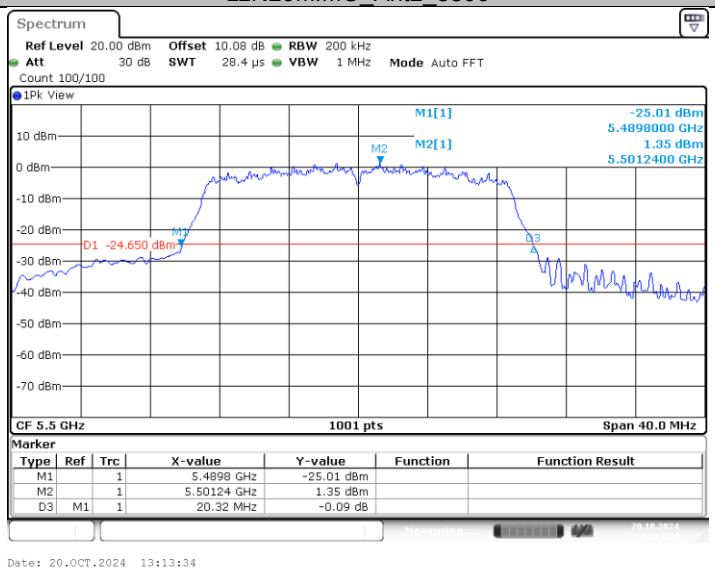

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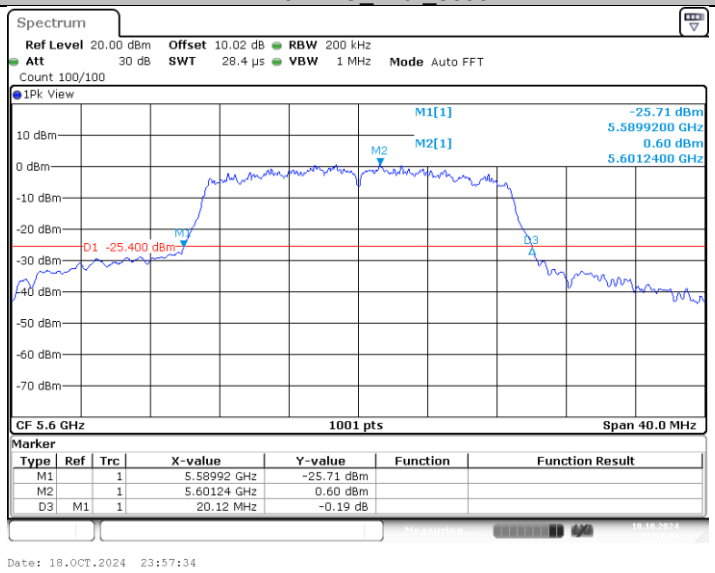

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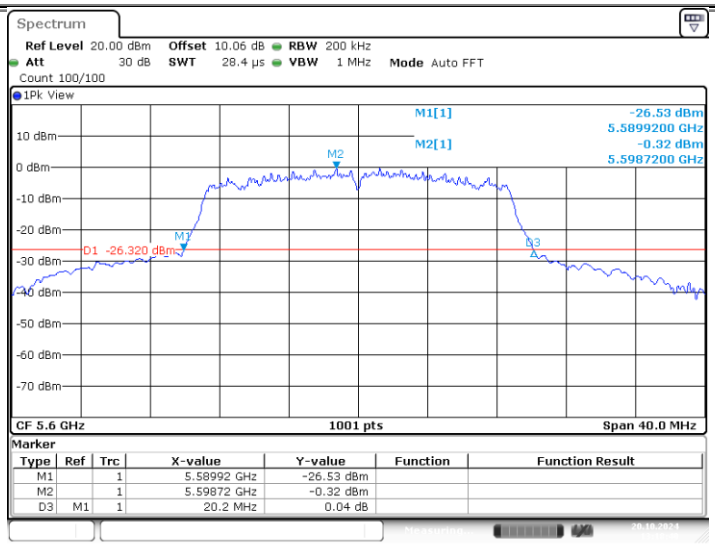

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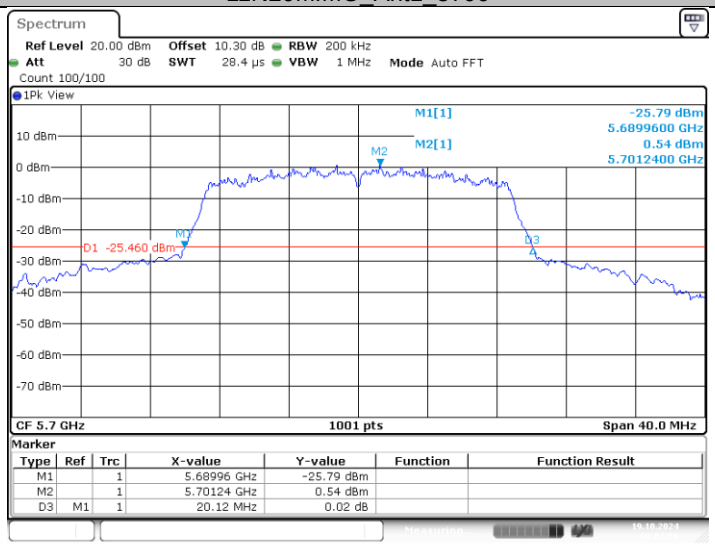

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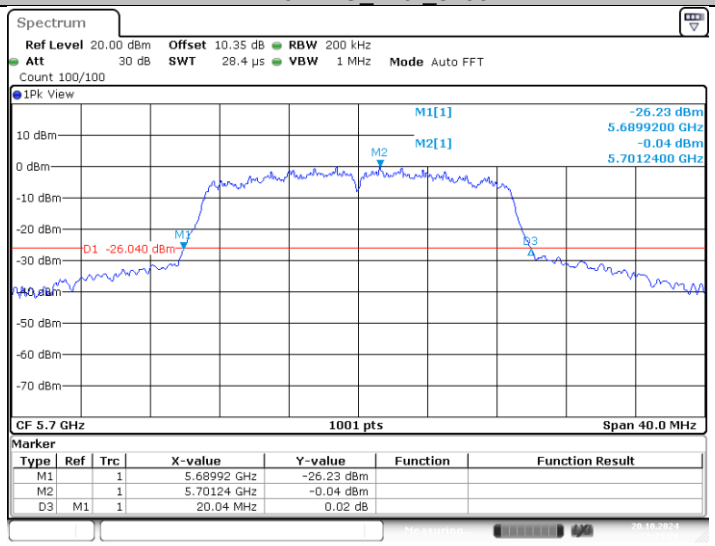

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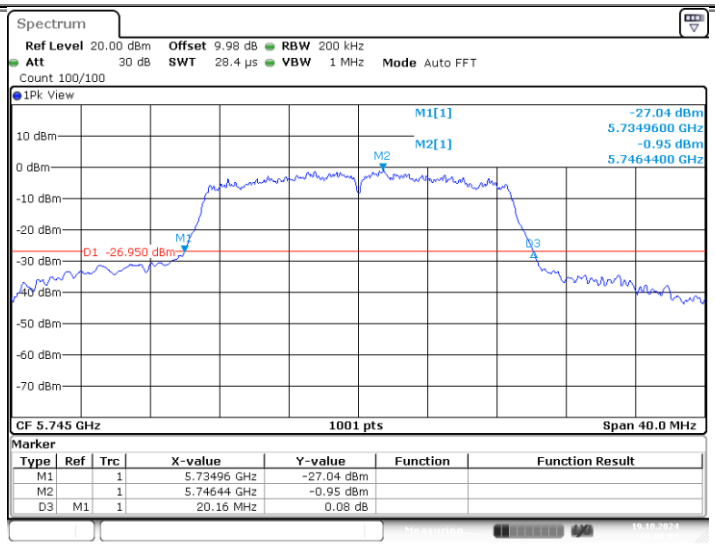

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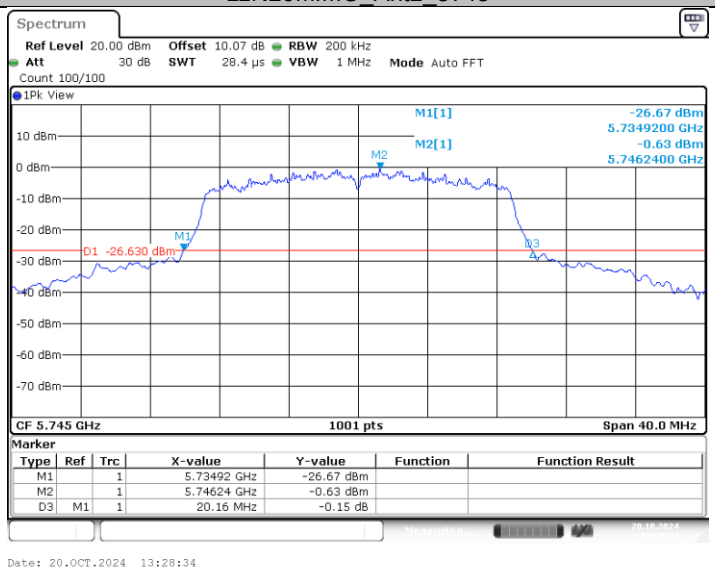

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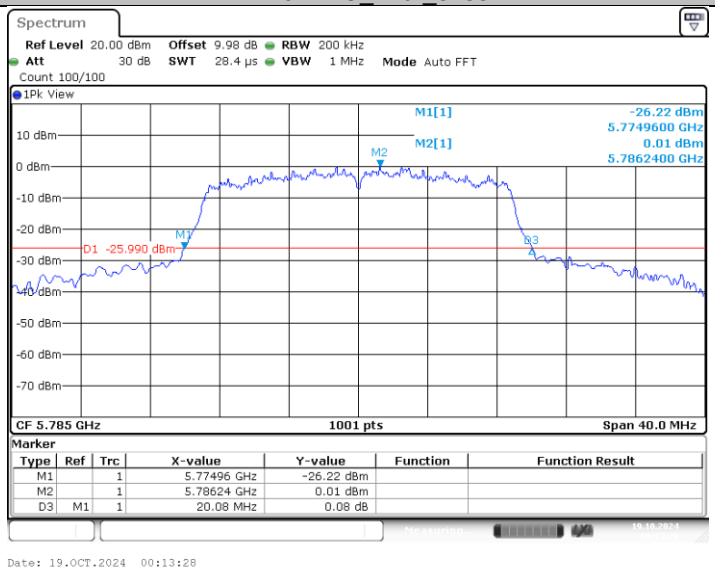

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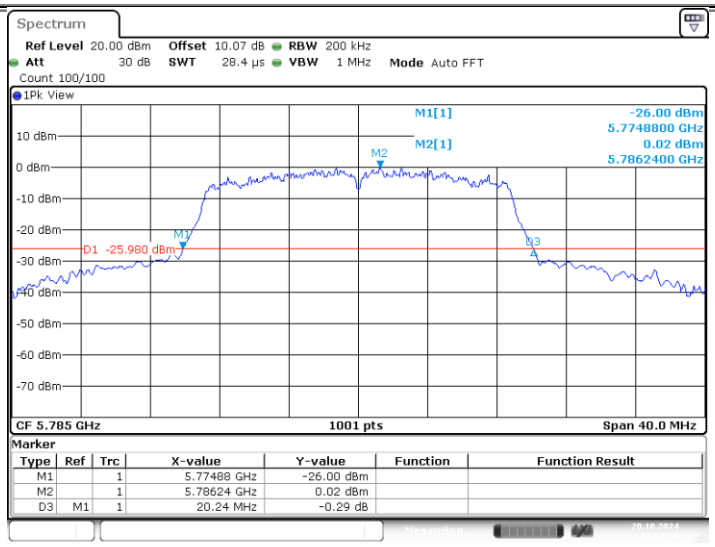

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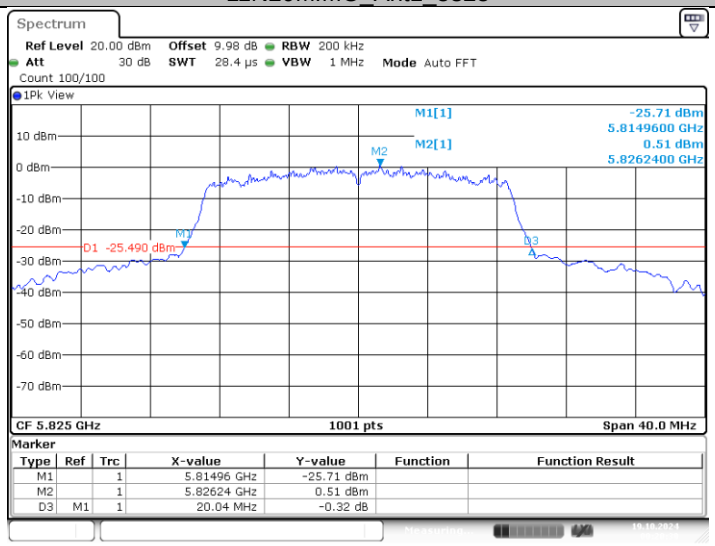

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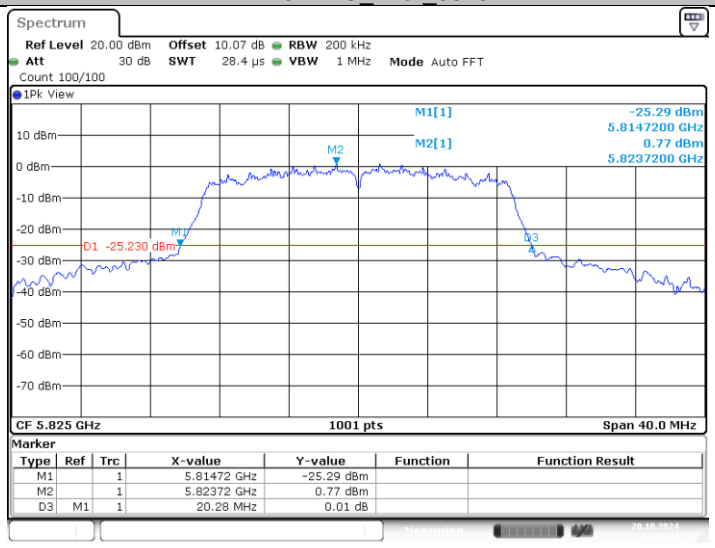

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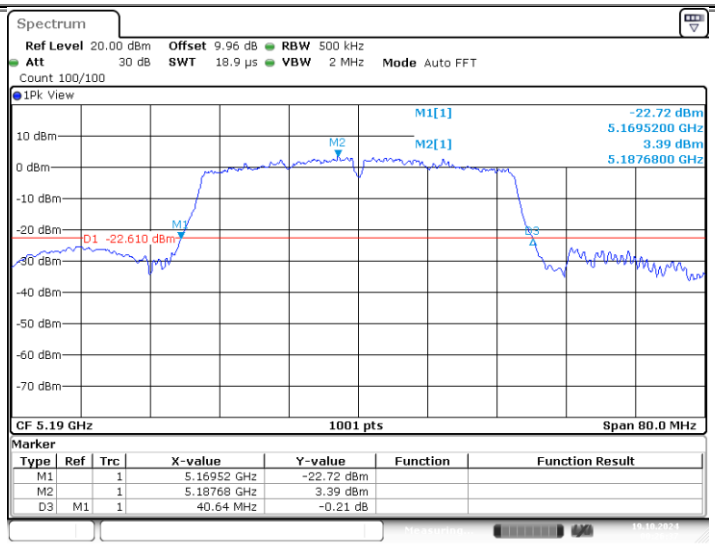

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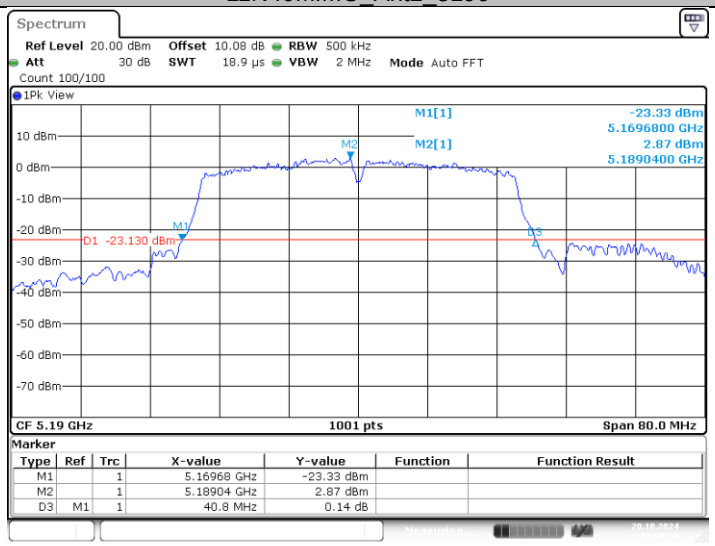
11N40MIMO_Ant2_5190



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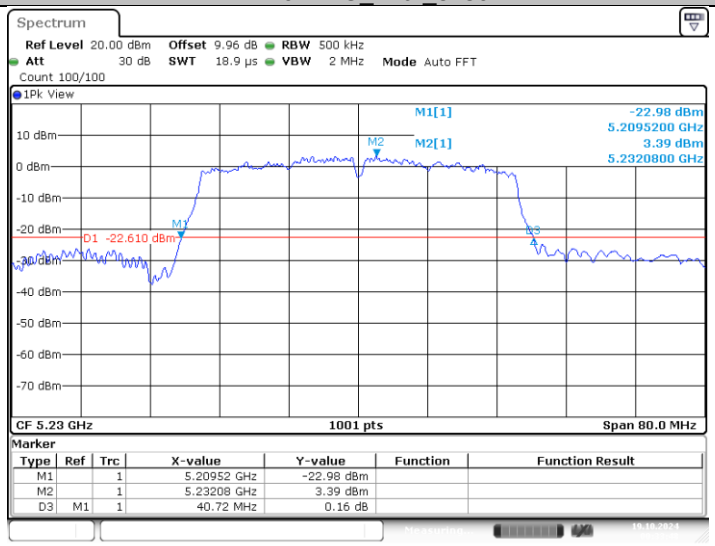
11N40MIMO_Ant1_5230



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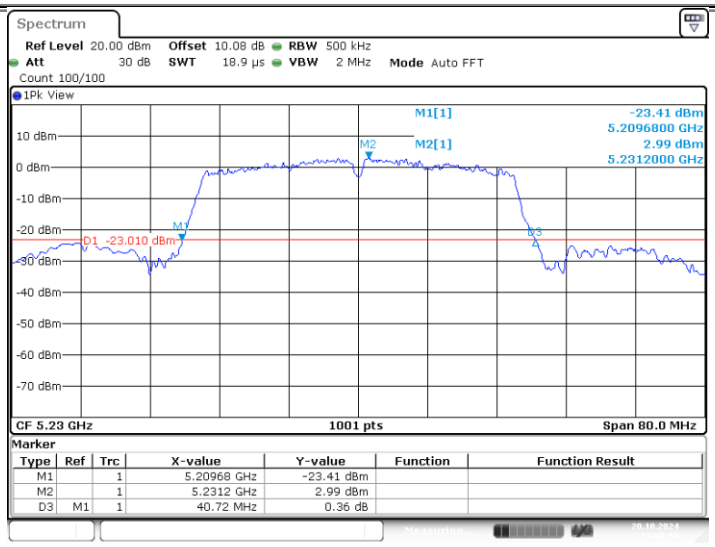
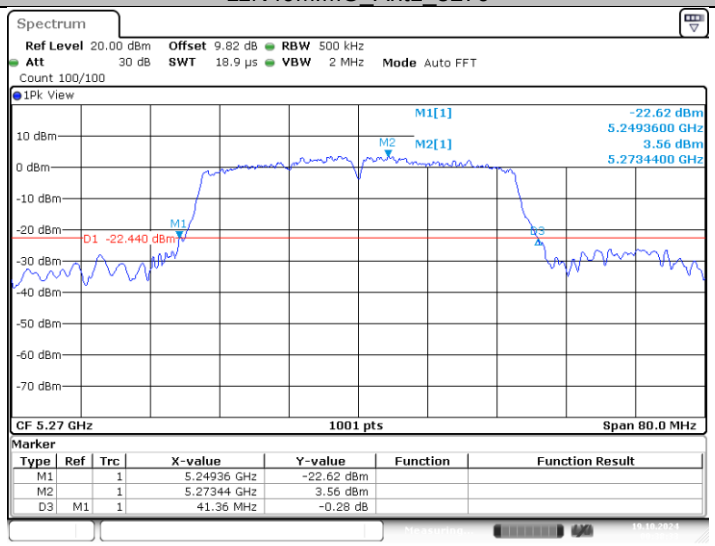
11N40MIMO_Ant2_5230



11N40MIMO_Ant1_5270



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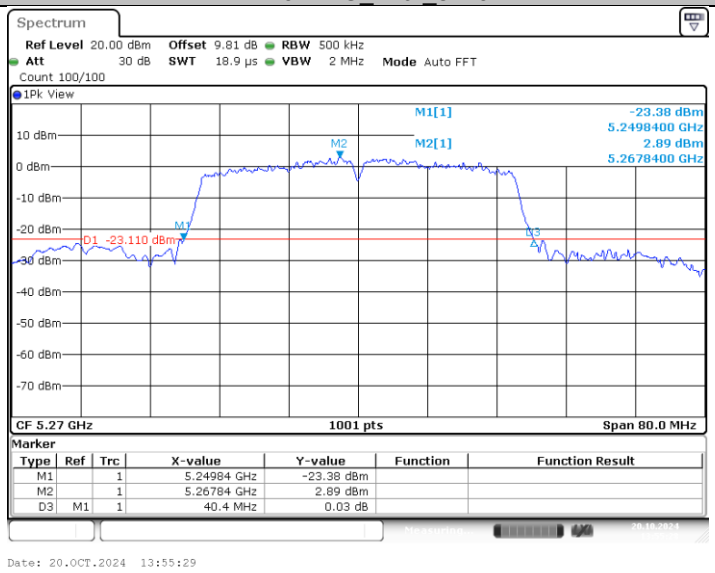

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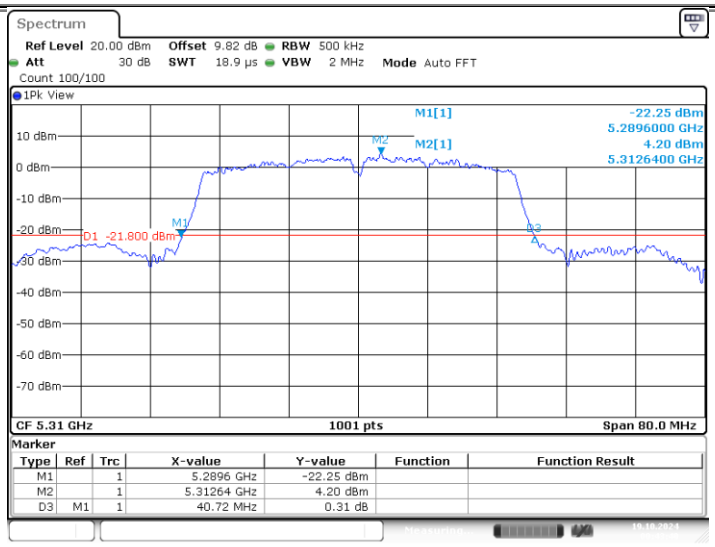

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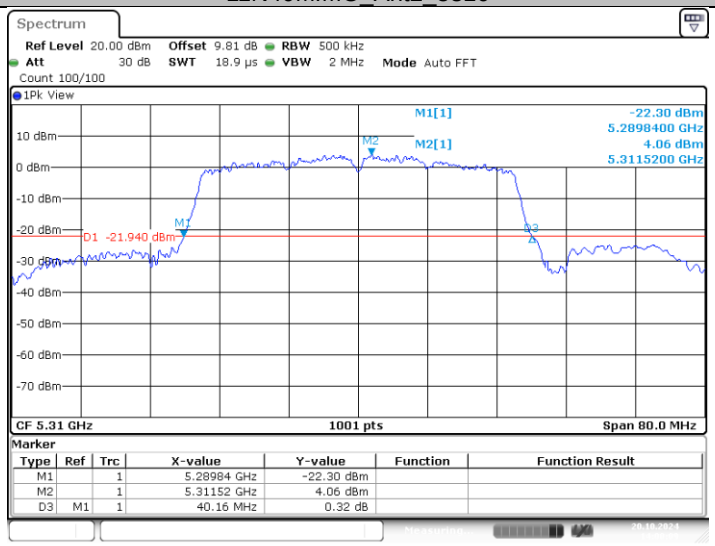

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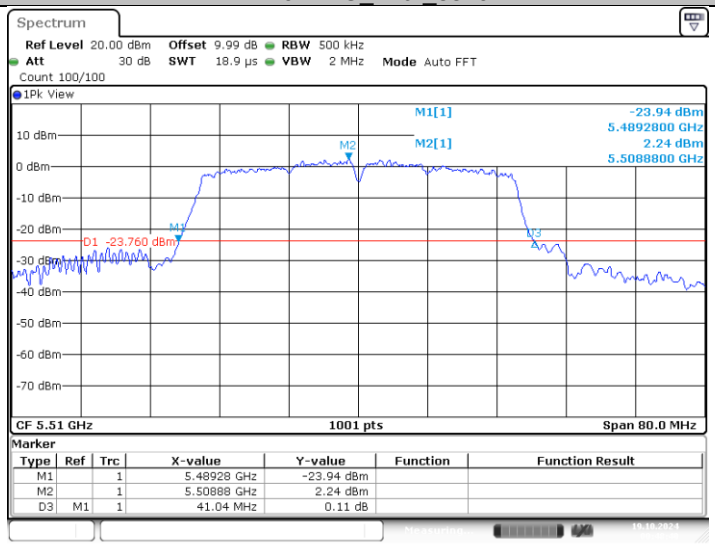

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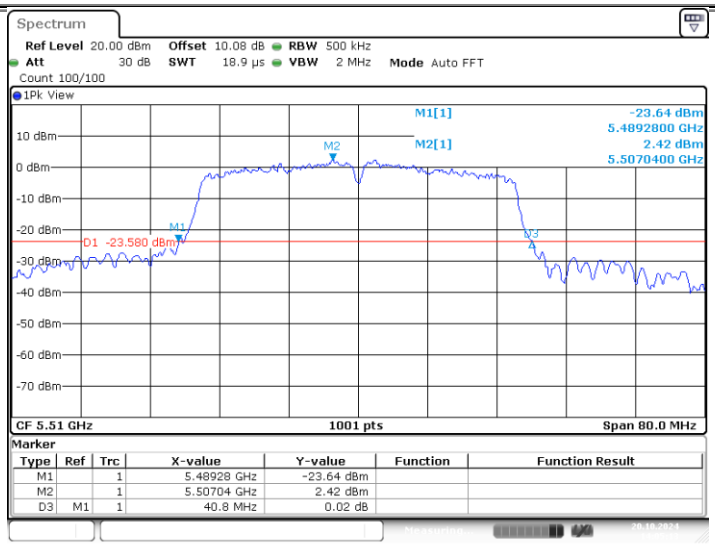

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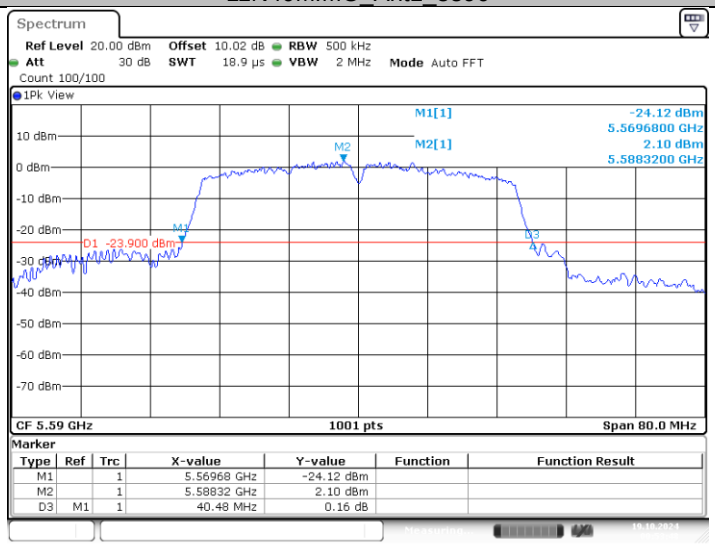

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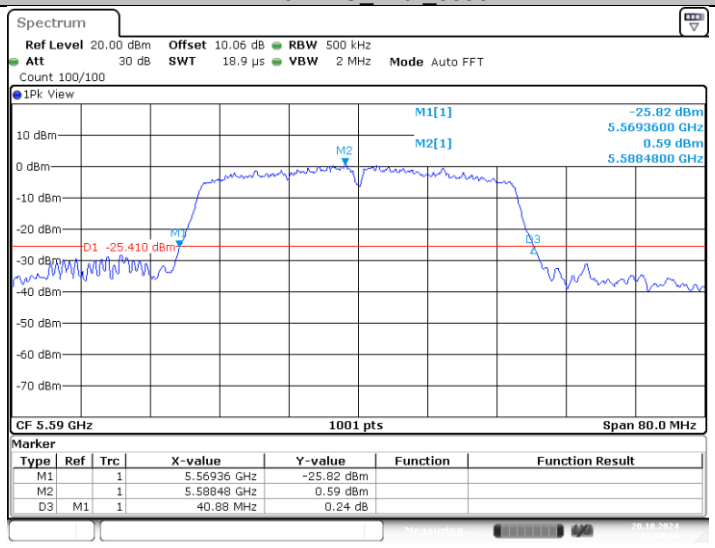

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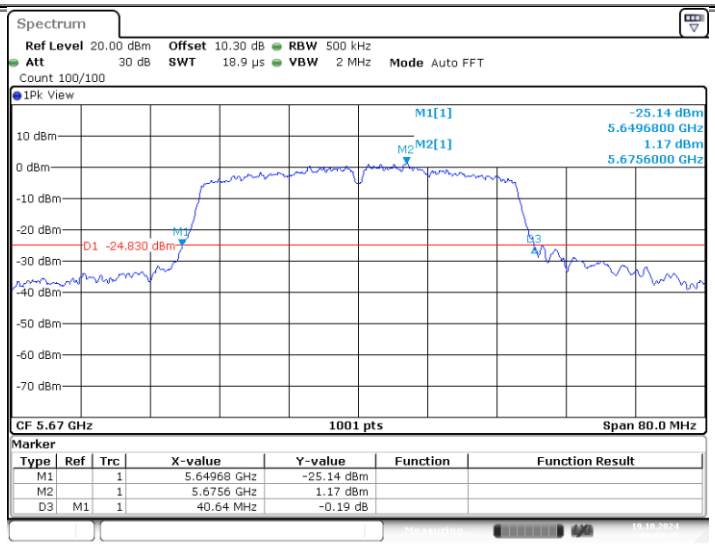

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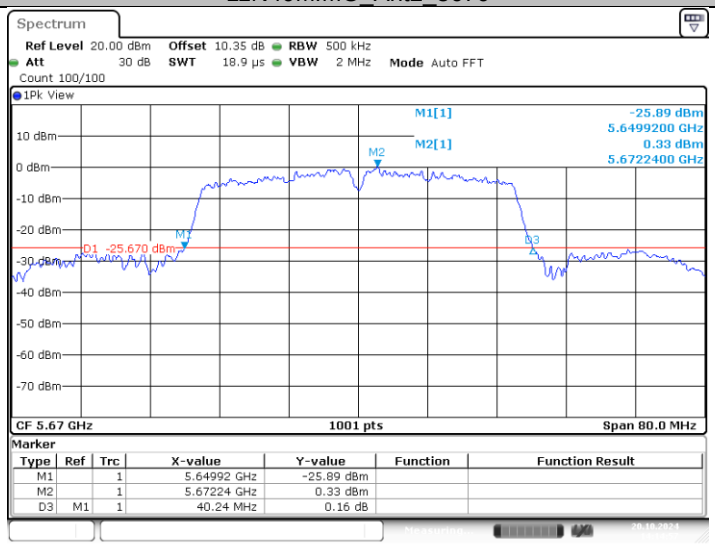

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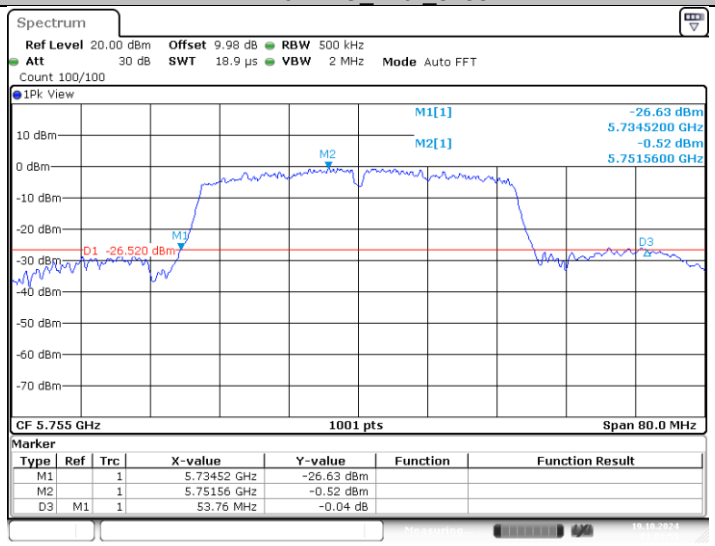

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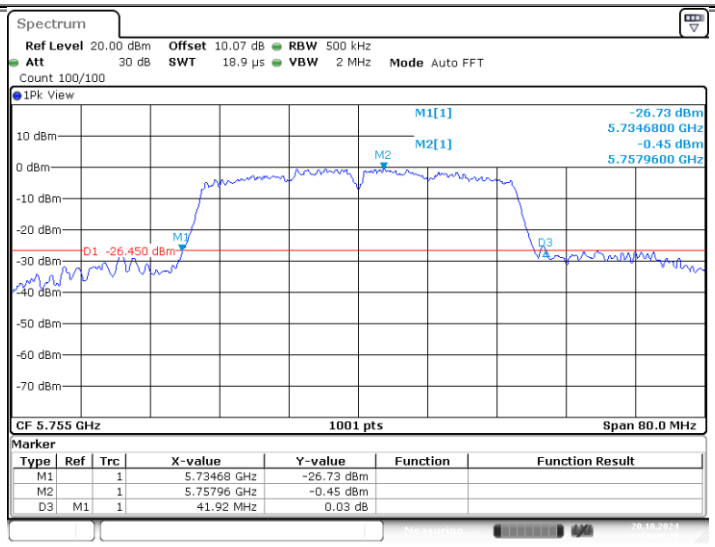

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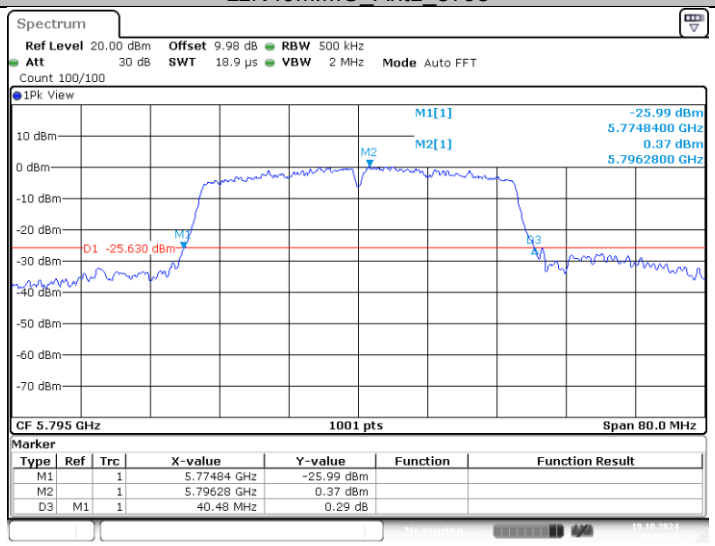

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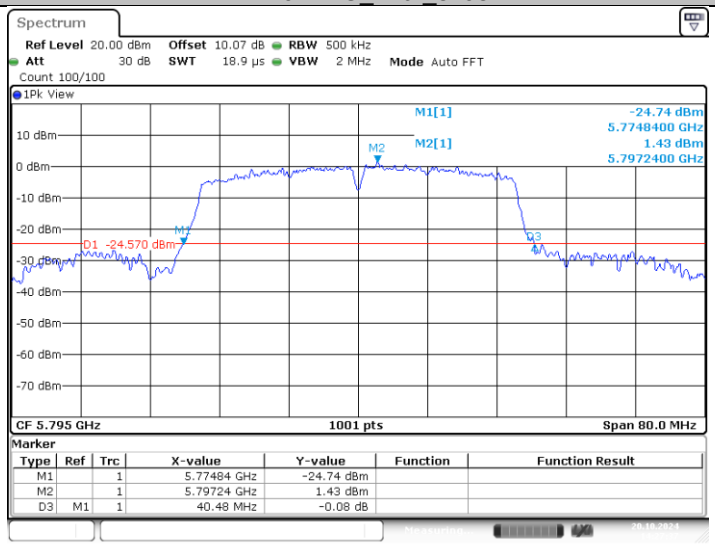

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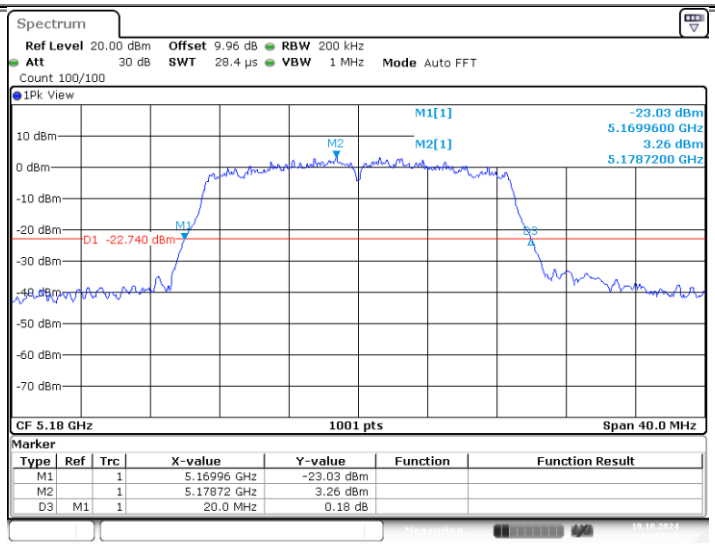

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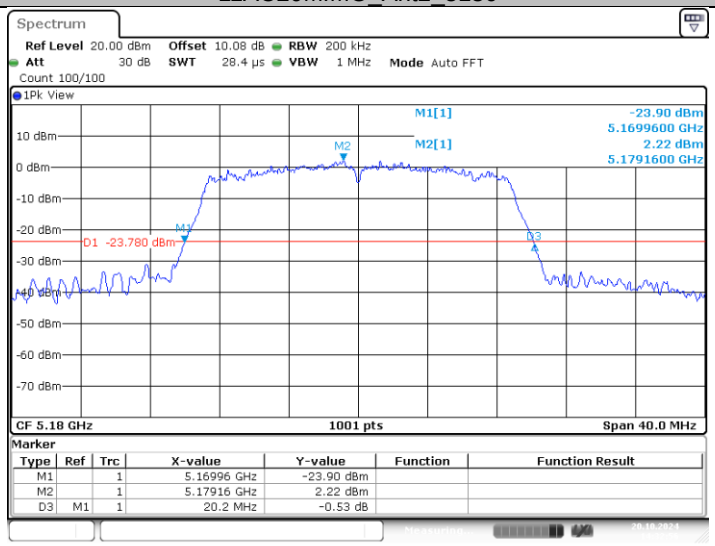

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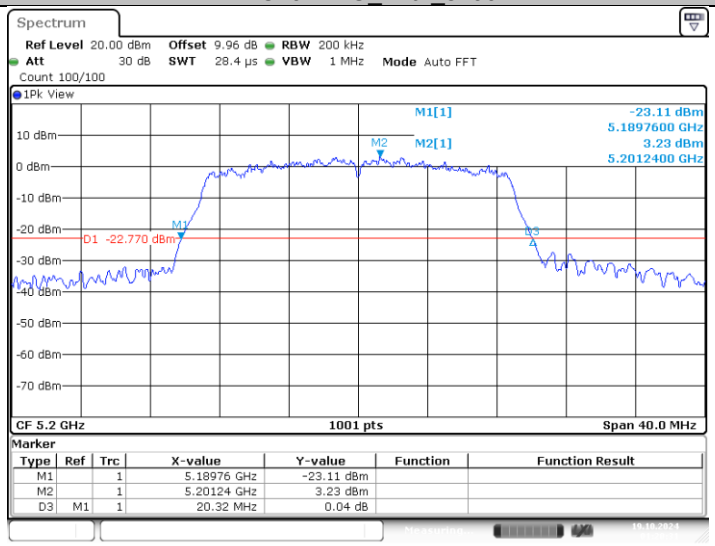

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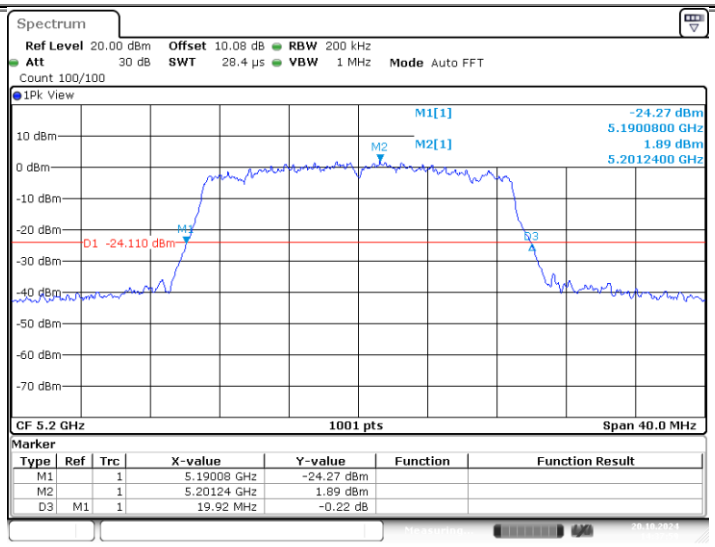

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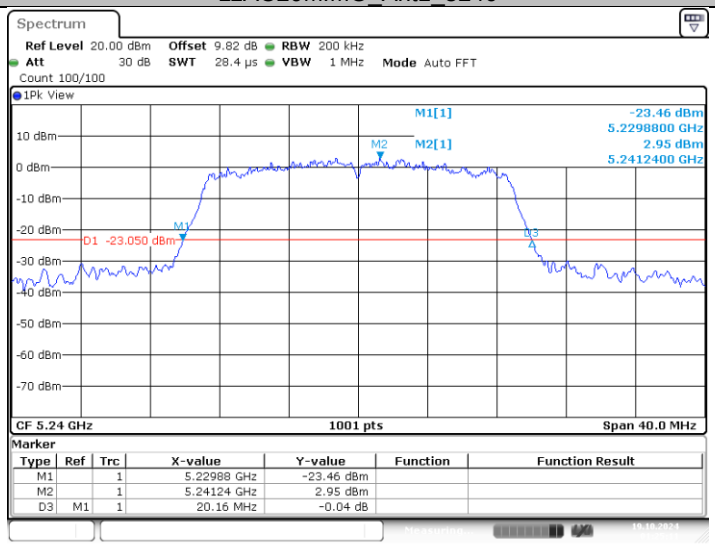

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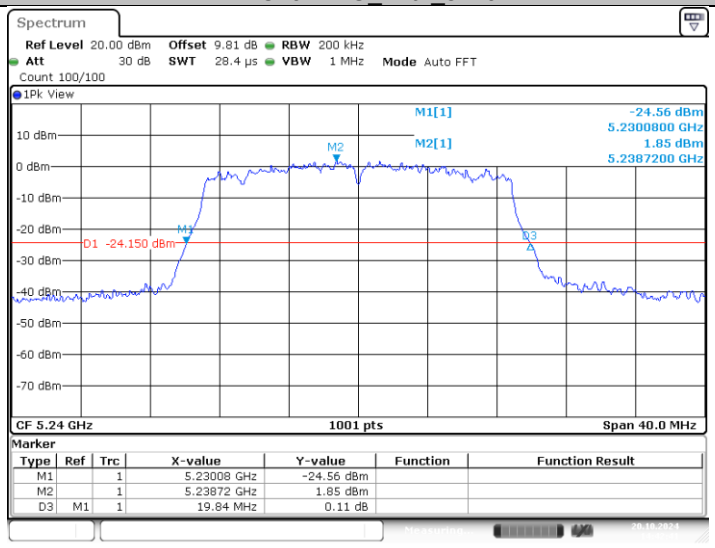

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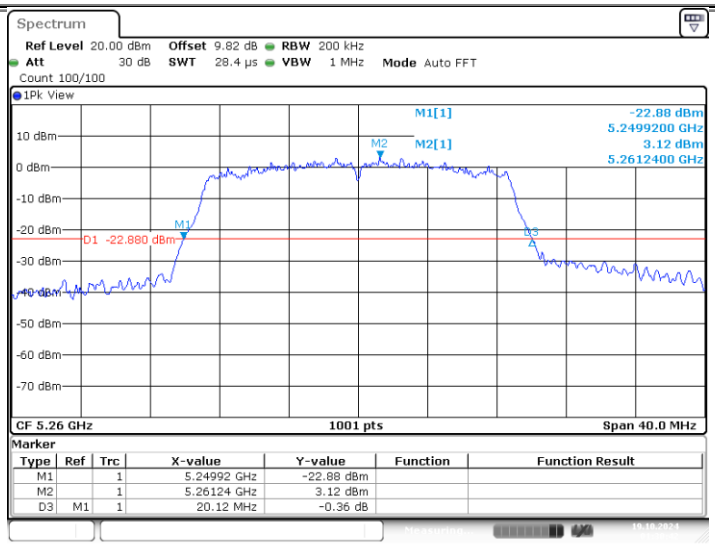

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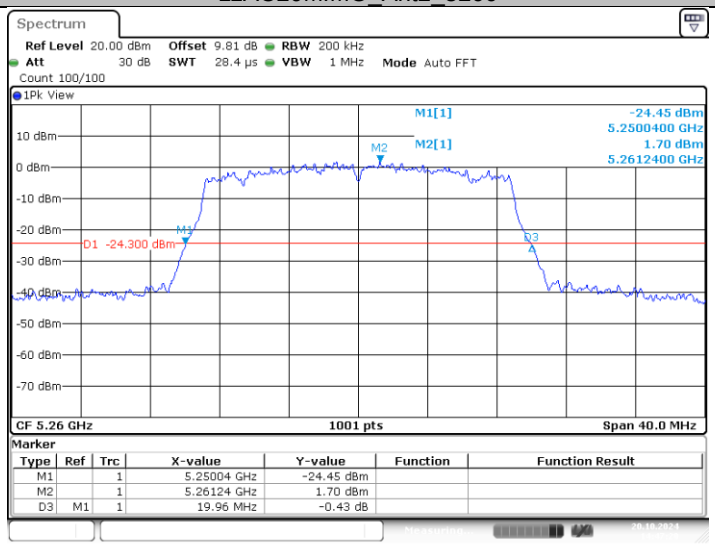

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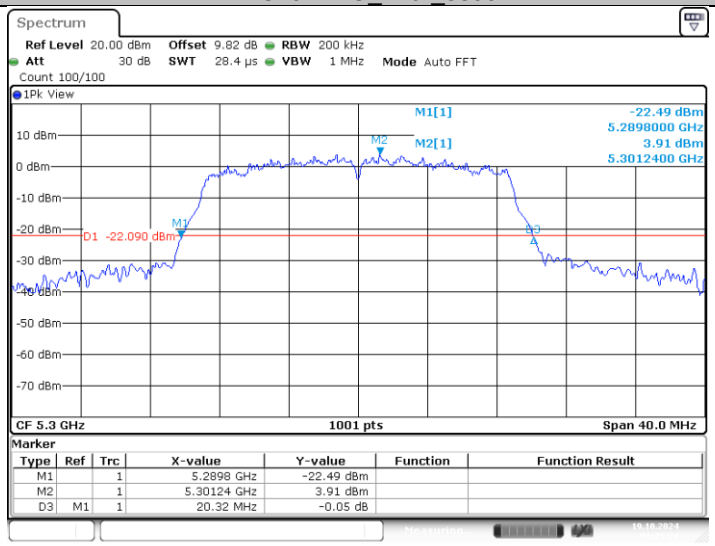

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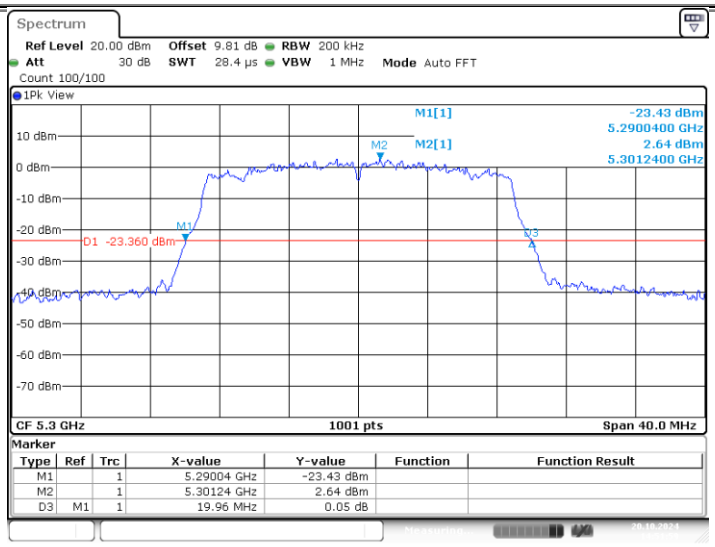

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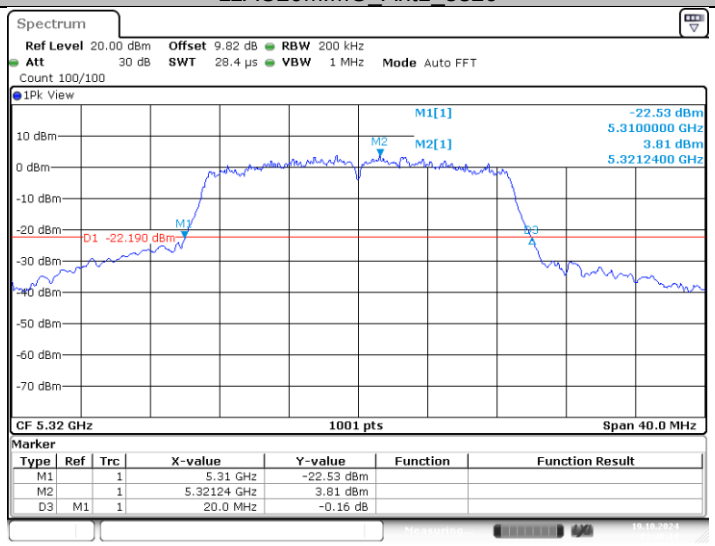

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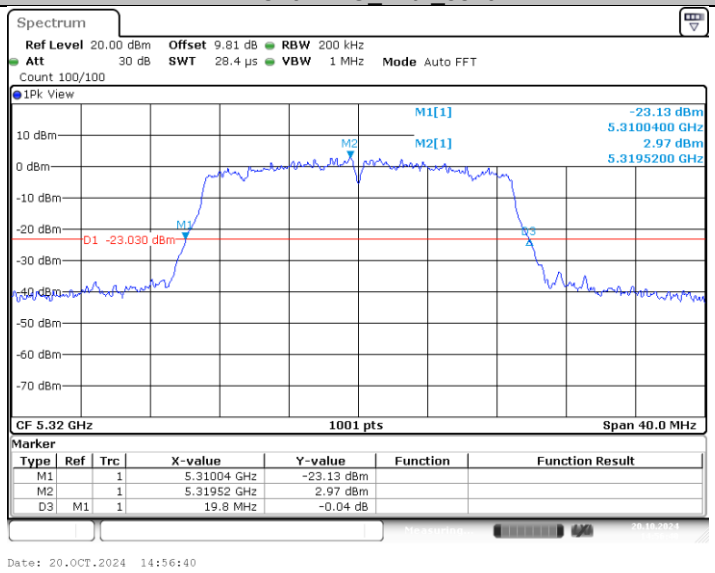

11AC20MIMO_Ant1_5500