Appendix A1: Emission Bandwidth

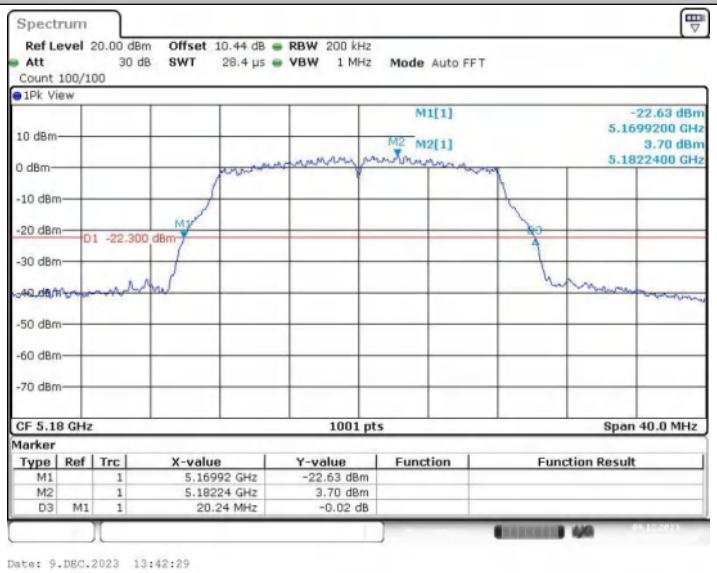
Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.24	5169.92	5190.16	---	---
	Ant2	5180	20.12	5169.92	5190.04	---	---
	Ant1	5220	20.08	5209.96	5230.04	---	---
	Ant2	5220	20.32	5209.72	5230.04	---	---
	Ant1	5240	20.24	5229.76	5250.00	---	---
	Ant2	5240	20.24	5229.88	5250.12	---	---
	Ant1	5745	27.12	5731.96	5759.08	---	---
	Ant2	5745	25.88	5732.64	5758.52	---	---
	Ant1	5785	25.40	5772.40	5797.80	---	---
	Ant2	5785	25.28	5771.88	5797.16	---	---
	Ant1	5825	24.04	5812.96	5837.00	---	---
	Ant2	5825	20.92	5814.52	5835.44	---	---
11N20MIMO	Ant1	5180	20.40	5169.80	5190.20	---	---
	Ant2	5180	20.32	5169.80	5190.12	---	---
	Ant1	5220	20.48	5209.76	5230.24	---	---
	Ant2	5220	20.52	5209.76	5230.28	---	---
	Ant1	5240	20.36	5229.76	5250.12	---	---
	Ant2	5240	20.52	5229.64	5250.16	---	---
	Ant1	5745	27.32	5731.48	5758.80	---	---
	Ant2	5745	33.56	5728.36	5761.92	---	---
	Ant1	5785	26.68	5772.12	5798.80	---	---
	Ant2	5785	22.68	5774.24	5796.92	---	---
	Ant1	5825	24.00	5813.60	5837.60	---	---
	Ant2	5825	24.52	5813.64	5838.16	---	---
11N40MIMO	Ant1	5190	40.96	5169.60	5210.56	---	---
	Ant2	5190	40.32	5169.84	5210.16	---	---
	Ant1	5230	41.12	5209.44	5250.56	---	---
	Ant2	5230	40.80	5209.36	5250.16	---	---
	Ant1	5755	62.24	5724.92	5787.16	---	---
	Ant2	5755	57.04	5725.72	5782.76	---	---
	Ant1	5795	48.24	5772.76	5821.00	---	---
	Ant2	5795	41.04	5774.60	5815.64	---	---
11AC80MIMO	Ant1	5210	80.80	5169.84	5250.64	---	---
	Ant2	5210	79.84	5170.00	5249.84	---	---

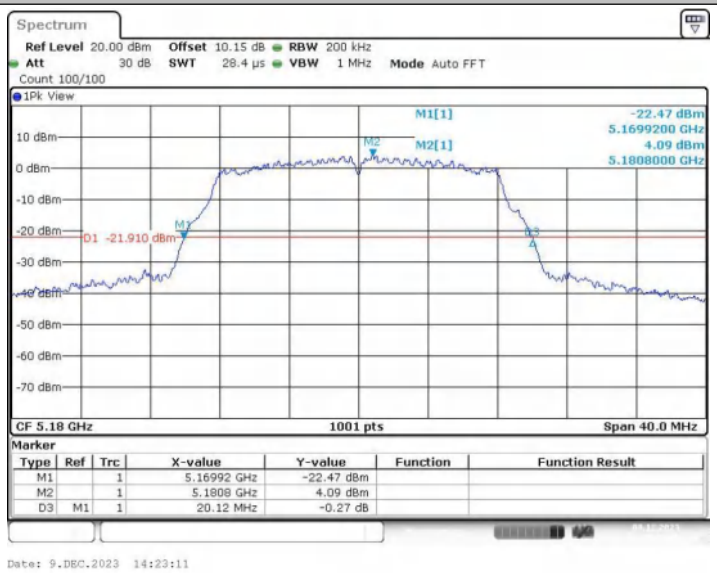
	Ant1	5775	99.52	5722.52	5822.04	---	---
	Ant2	5775	82.24	5732.76	5815.00	---	---

Test Graphs

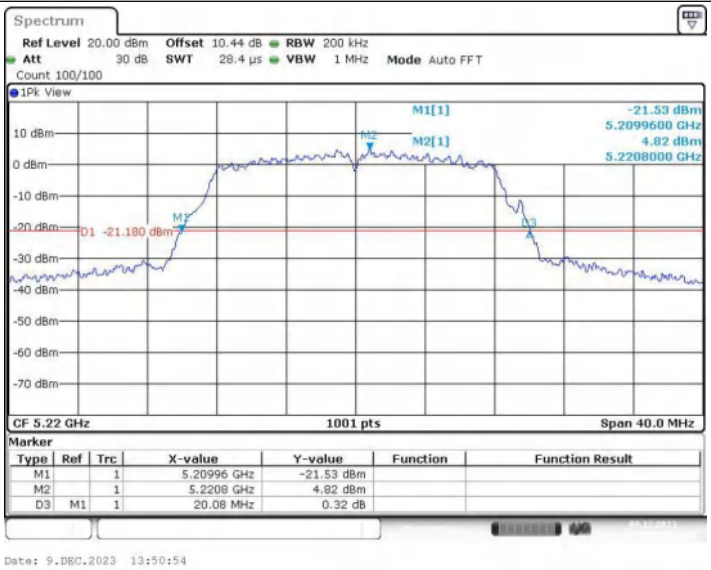
11A_Ant1_5180



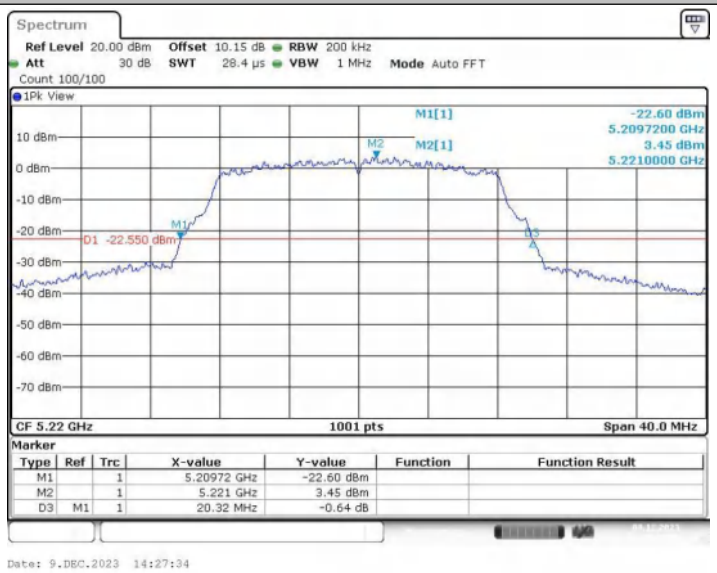
11A_Ant2_5180



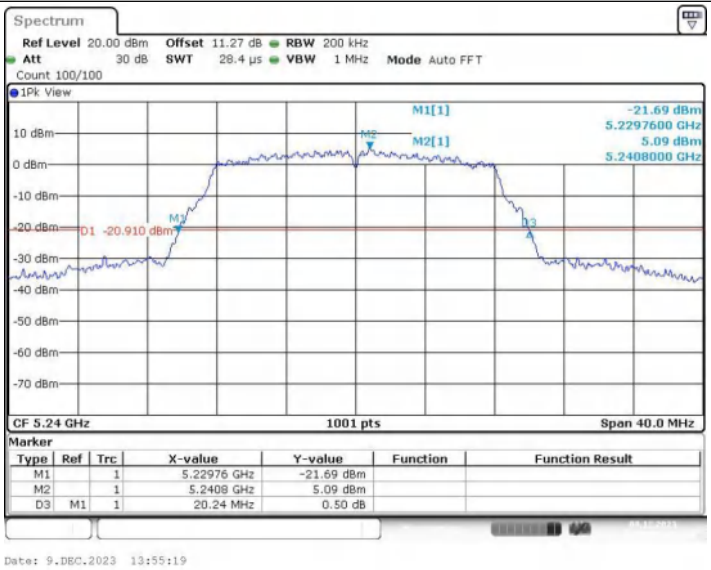
11A_Ant1_5220



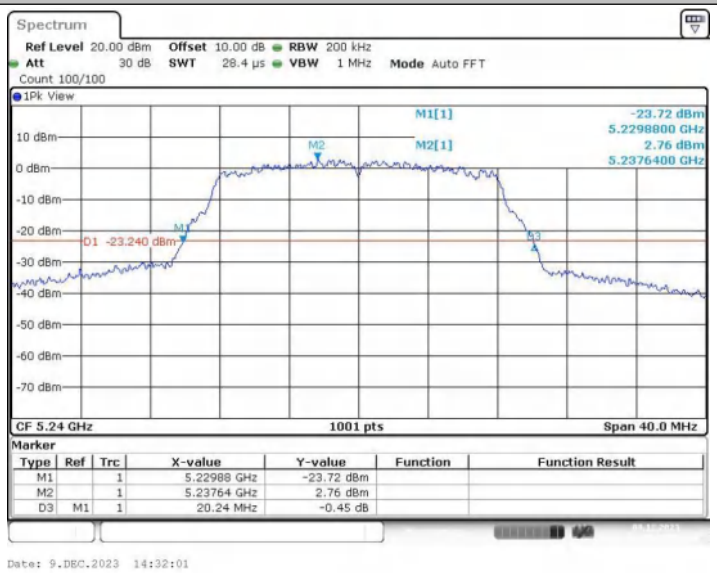
11A_Ant2_5220



11A_Ant1_5240



11A_Ant2_5240



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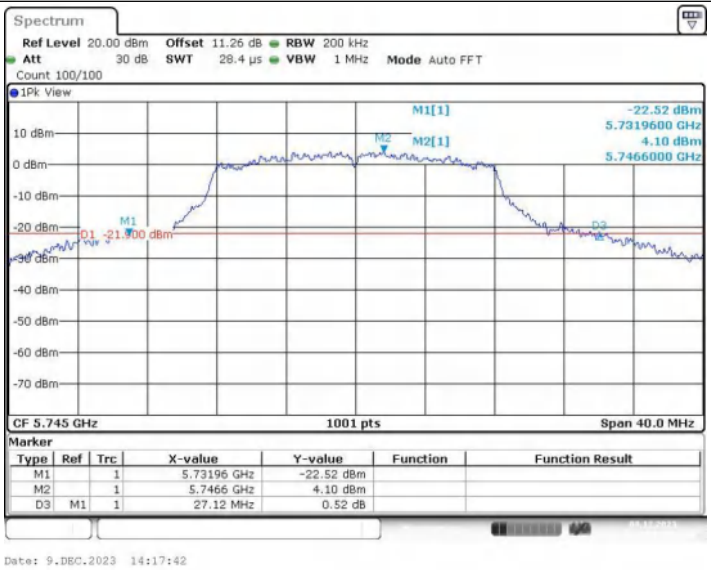

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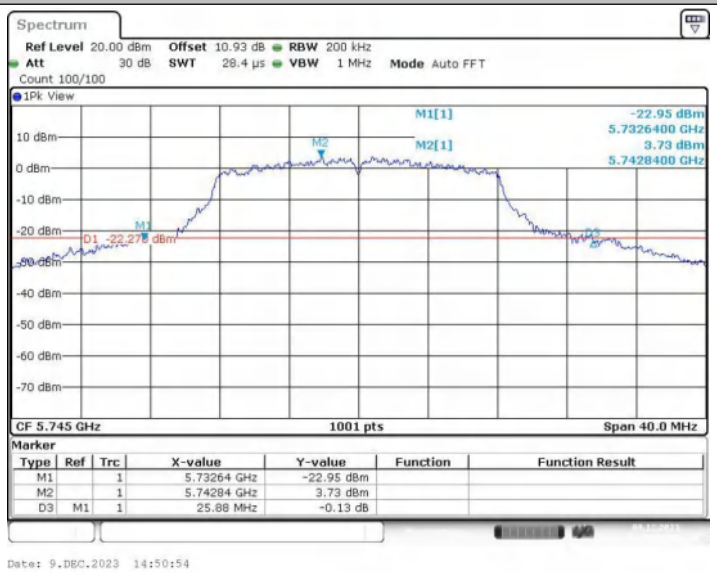
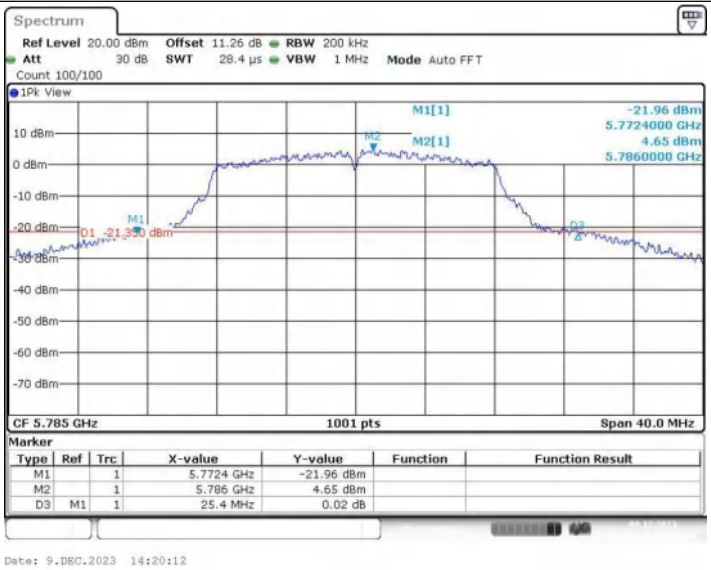


11A_Ant1_5785



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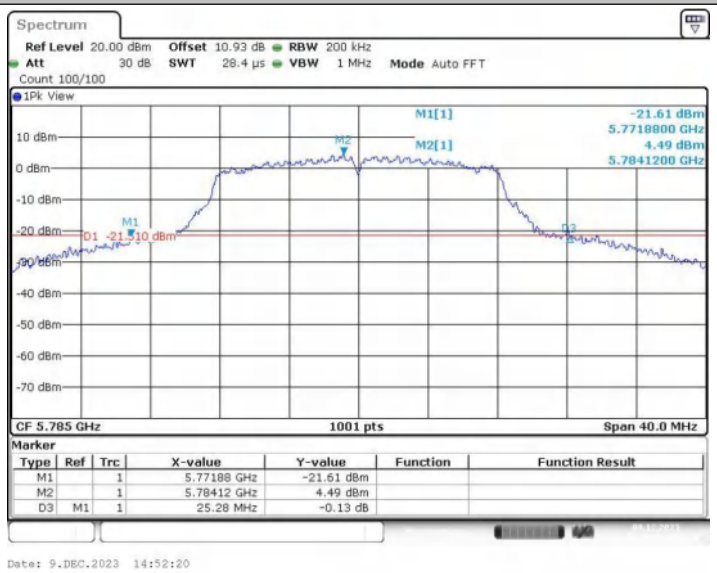

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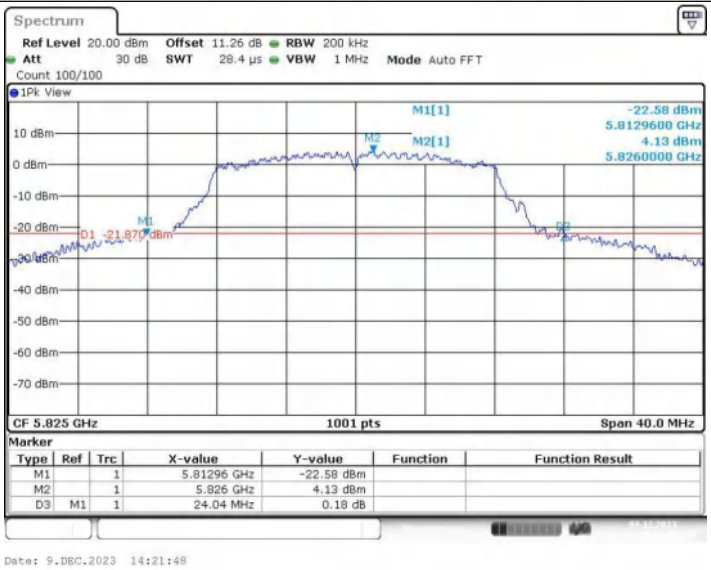

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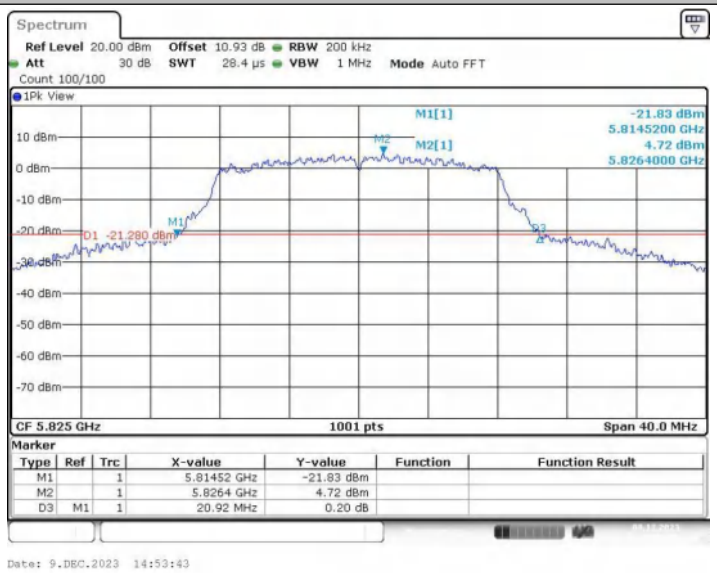

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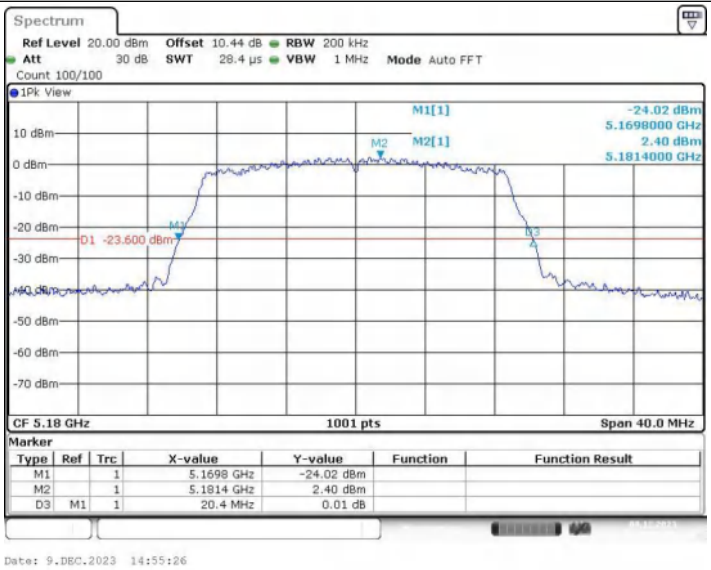

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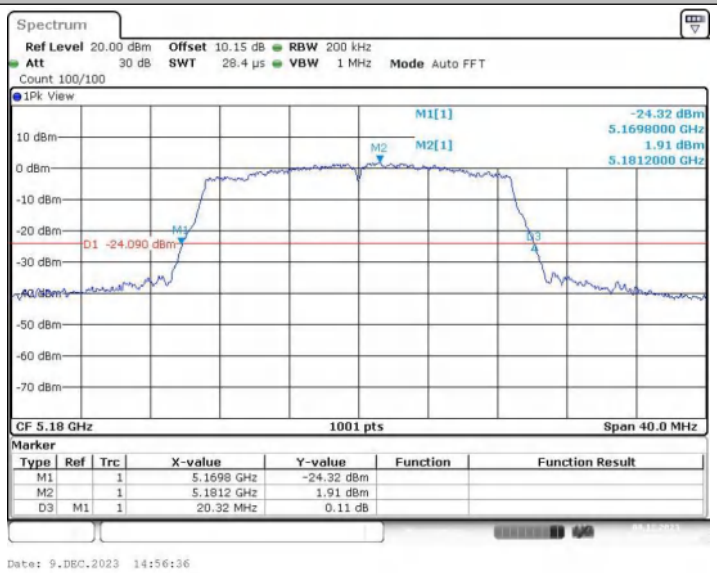

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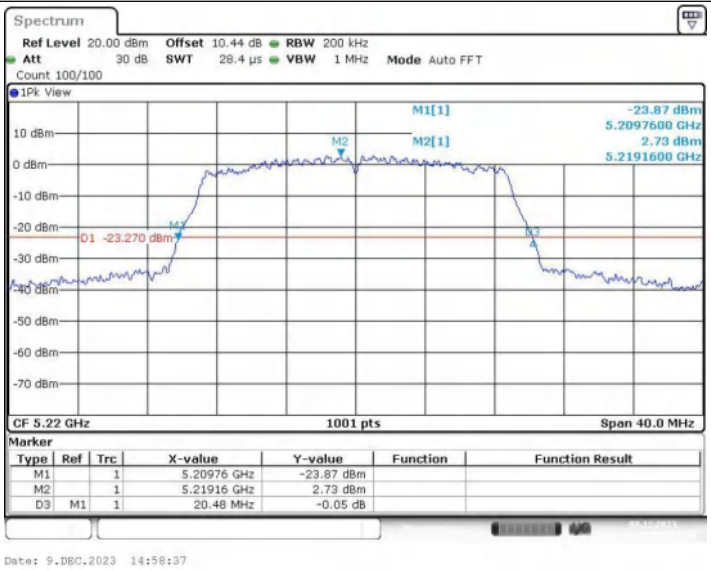

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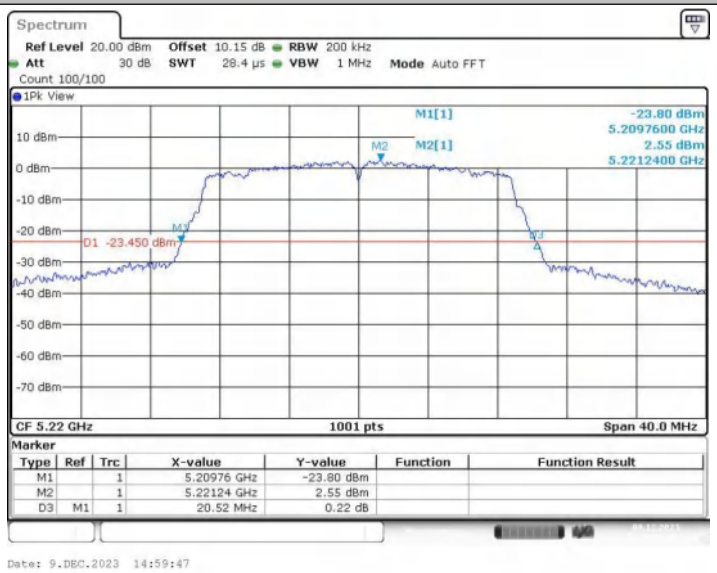

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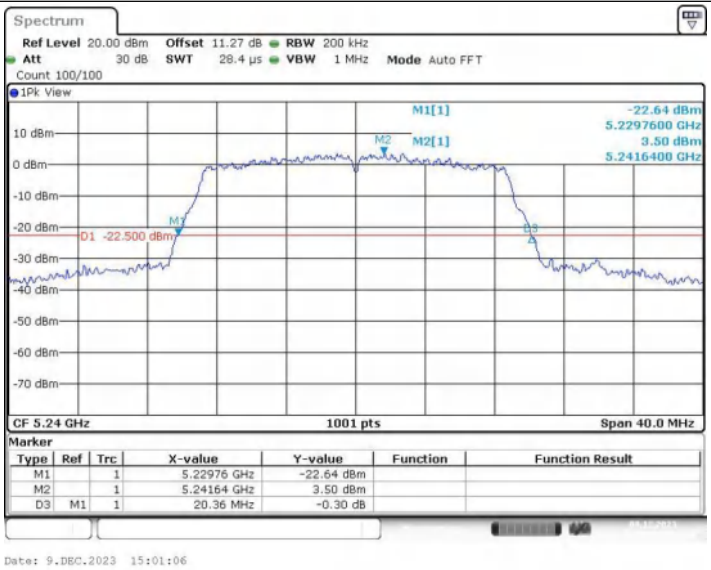

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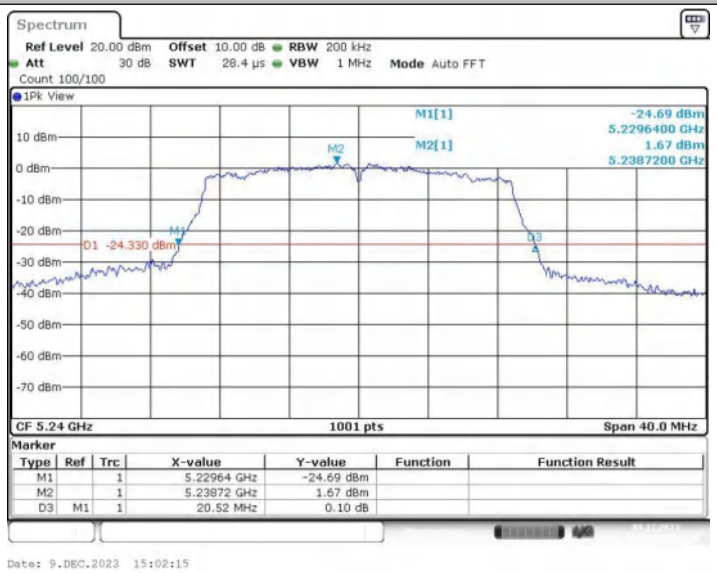

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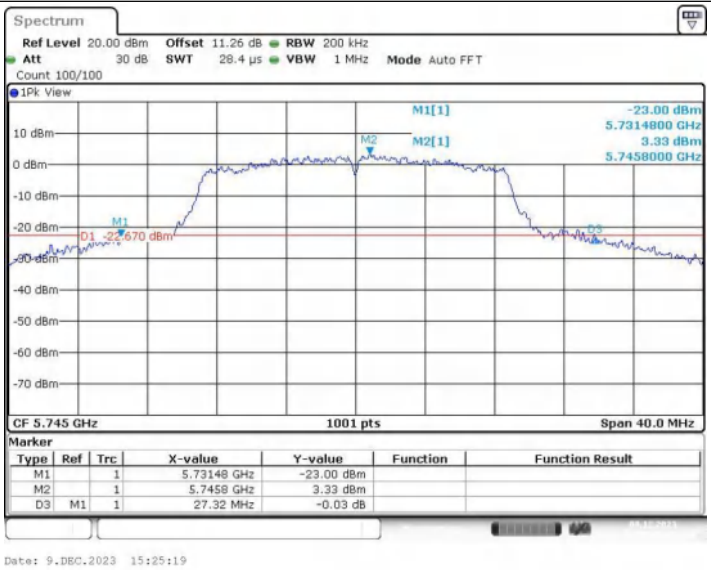

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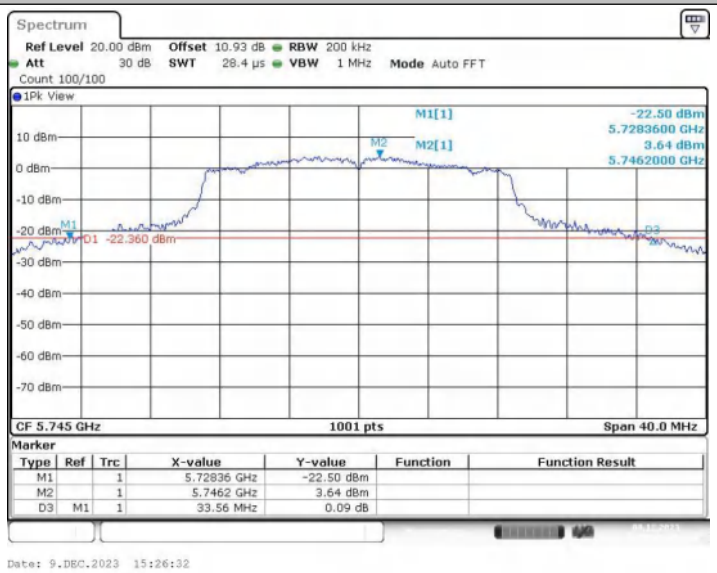

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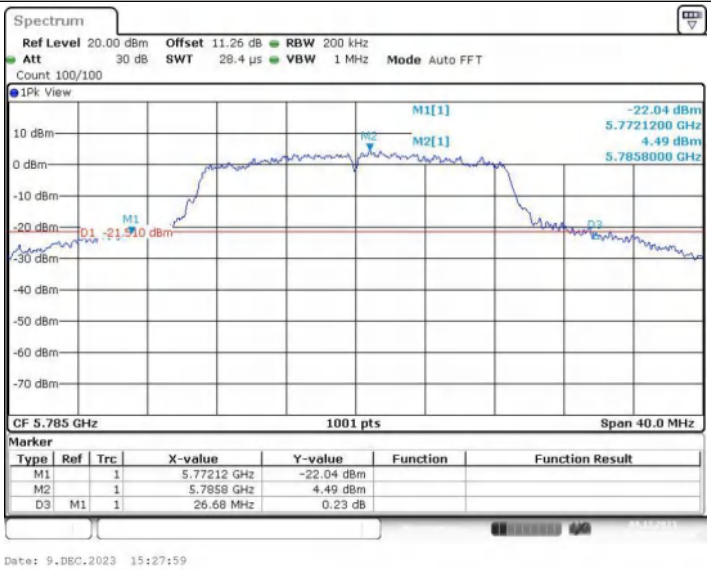

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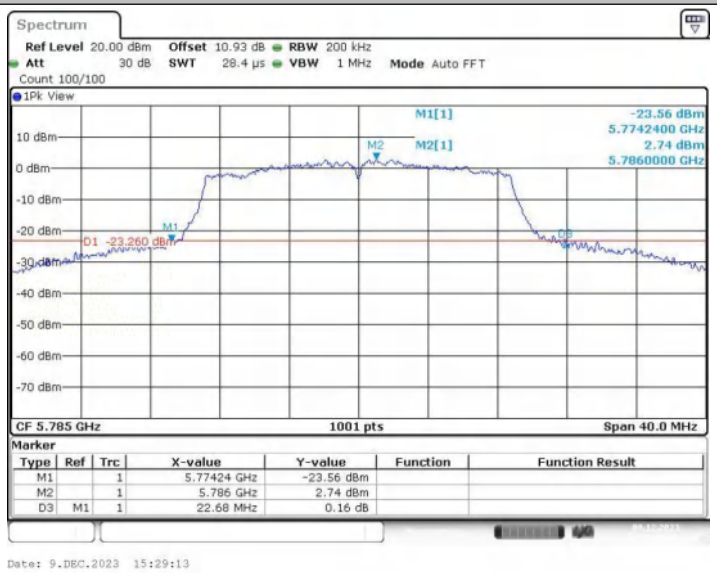

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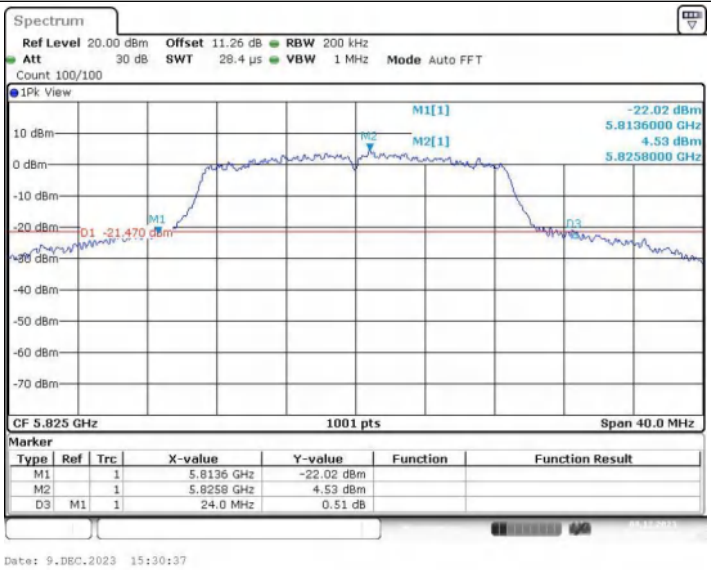

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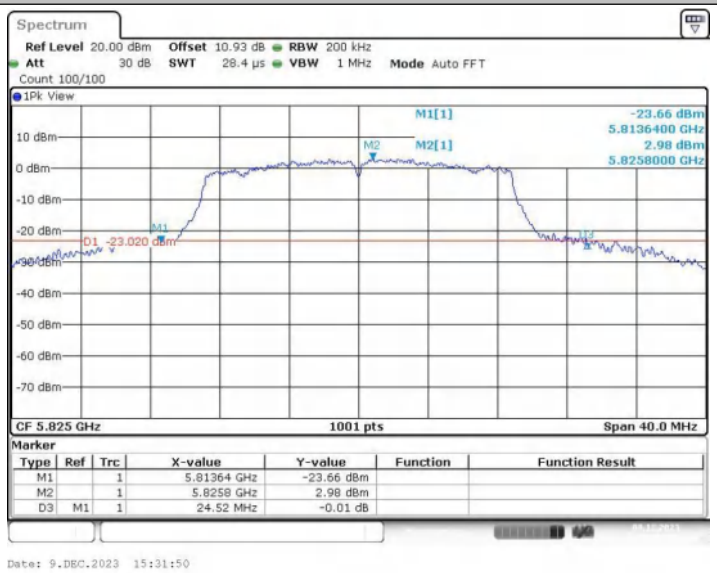

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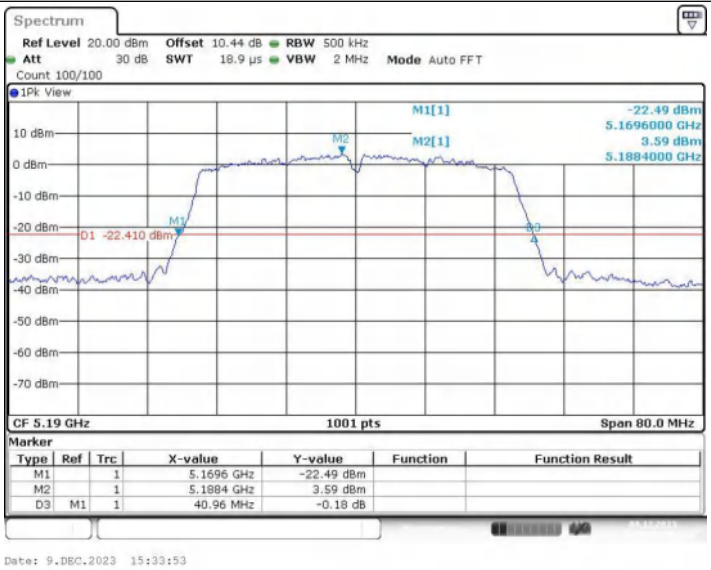

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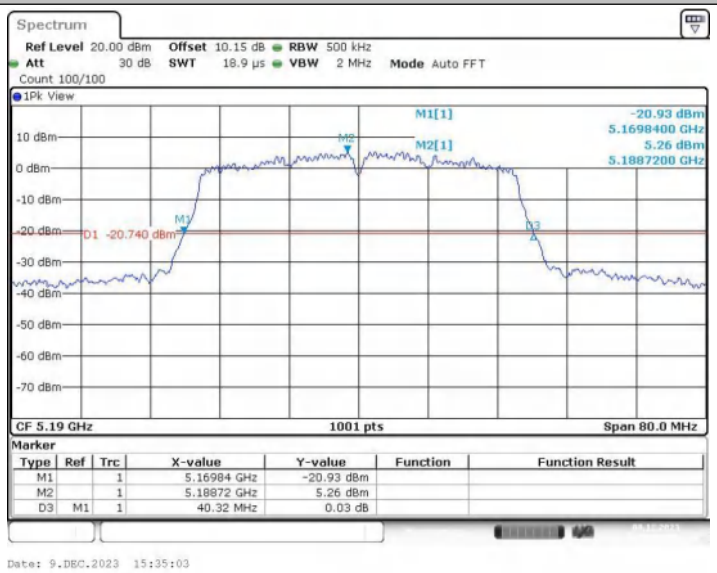

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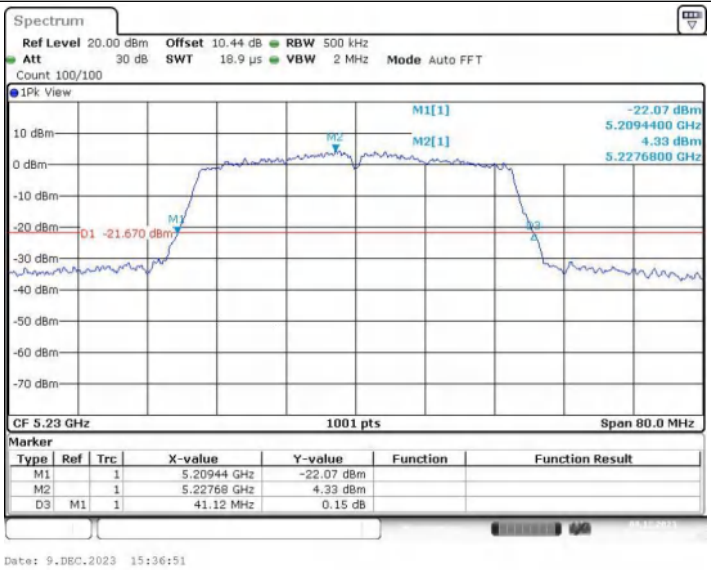

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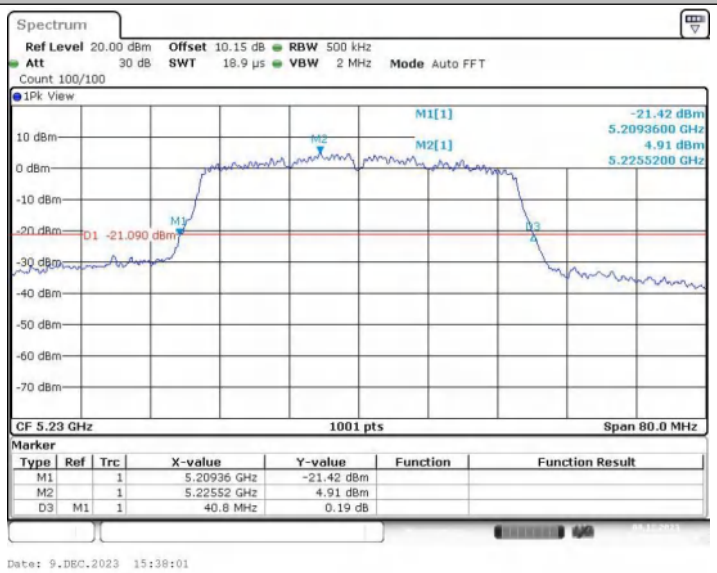

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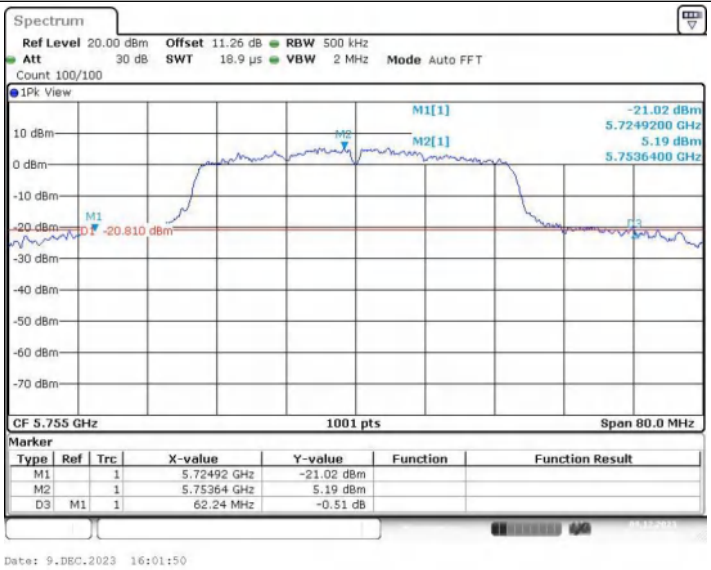

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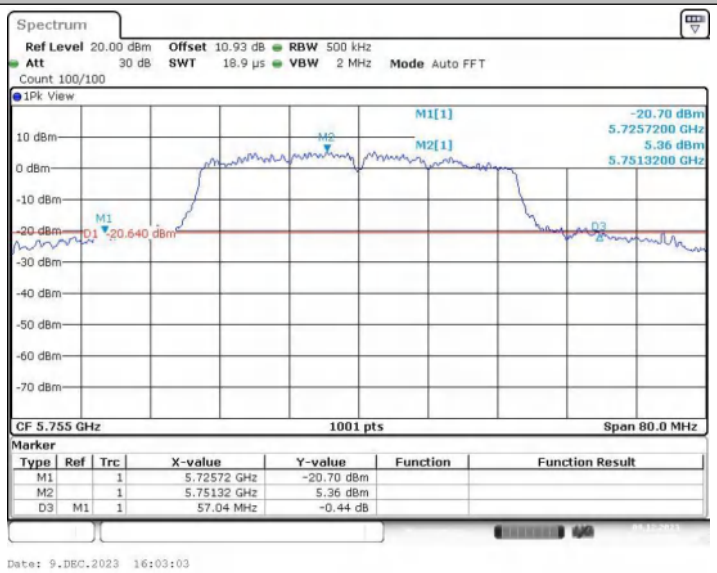

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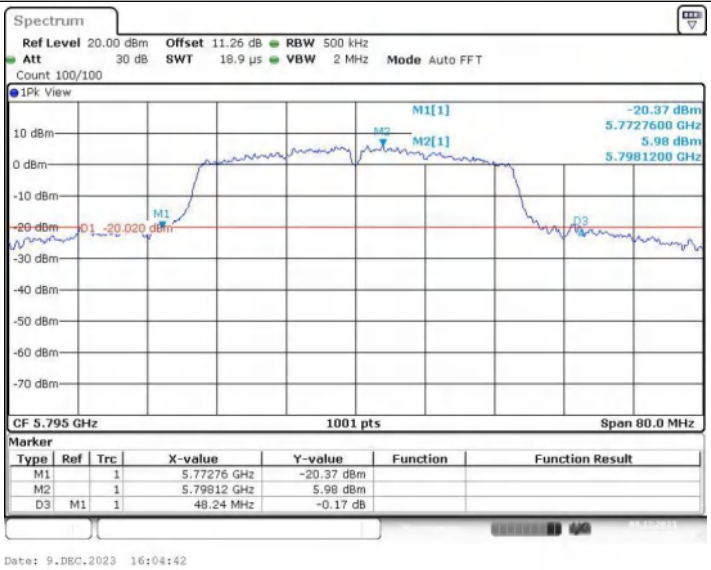
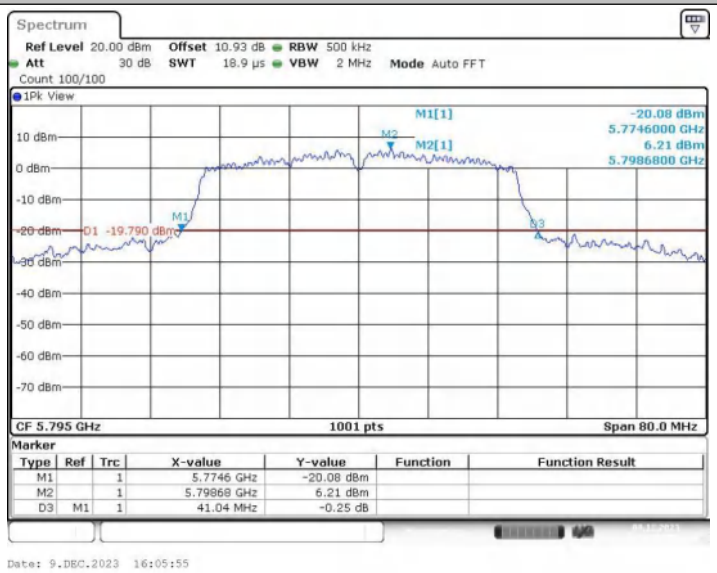


11N40MIMO_Ant2_5795



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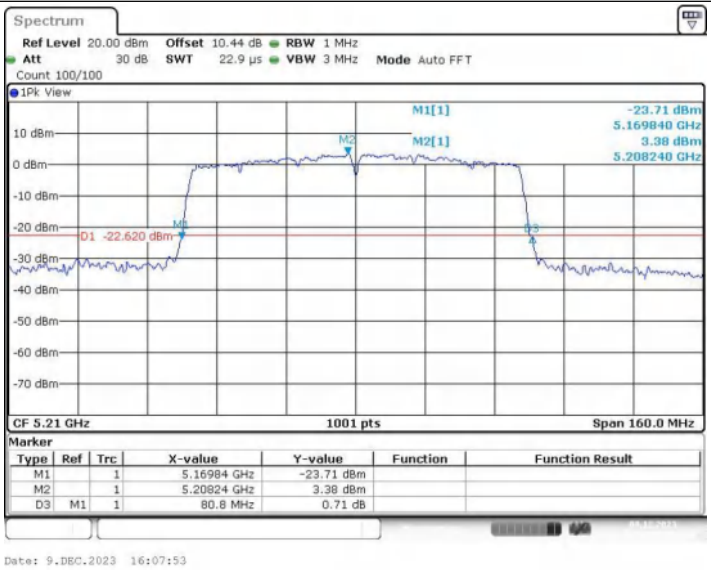
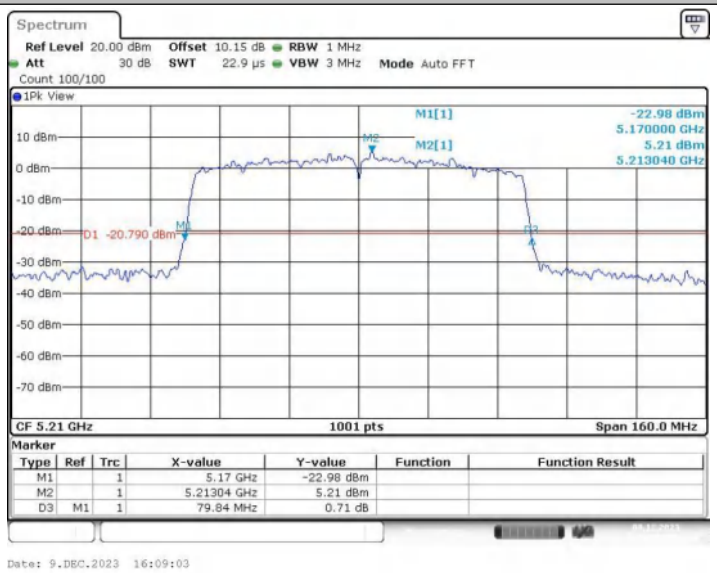


11AC80MIMO_Ant2_5210



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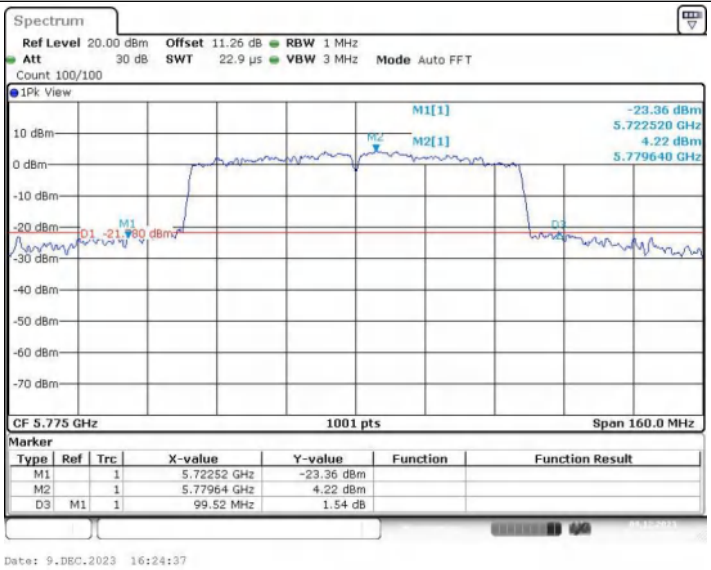

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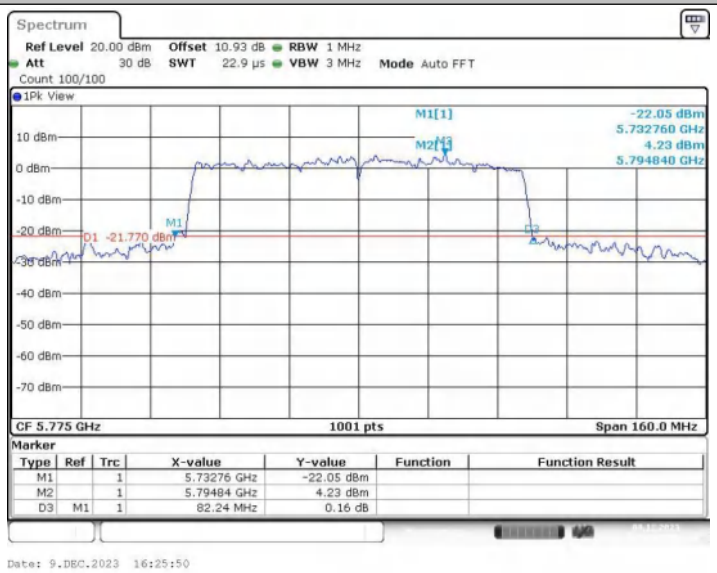


Appendix A2: Occupied channel bandwidth

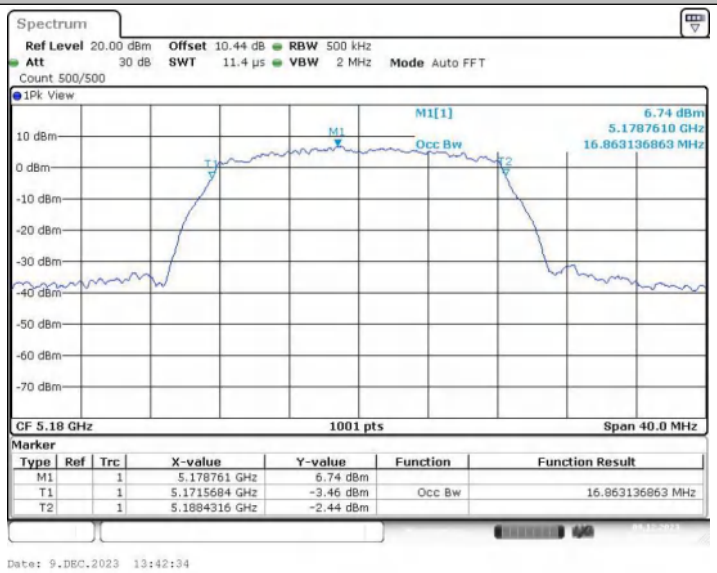
Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.863	5171.5684	5188.4316	---	---
	Ant2	5180	17.063	5171.4486	5188.5115	---	---
	Ant1	5220	16.943	5211.6084	5228.5514	---	---
	Ant2	5220	16.943	5211.5285	5228.4715	---	---
	Ant1	5240	17.183	5231.2887	5248.4715	---	---
	Ant2	5240	17.183	5231.3686	5248.5514	---	---
	Ant1	5745	17.463	5736.2088	5753.6713	---	---
	Ant2	5745	17.423	5736.4086	5753.8312	---	---
	Ant1	5785	17.662	5776.2887	5793.9510	---	---
	Ant2	5785	17.463	5776.2488	5793.7113	---	---
	Ant1	5825	17.223	5816.2887	5833.5115	---	---
	Ant2	5825	17.143	5816.5285	5833.6713	---	---
11N20MIMO	Ant1	5180	17.902	5171.0490	5188.9510	---	---
	Ant2	5180	17.822	5171.1289	5188.9510	---	---
	Ant1	5220	17.782	5211.0889	5228.8711	---	---
	Ant2	5220	17.782	5211.0889	5228.8711	---	---
	Ant1	5240	18.022	5230.8492	5248.8711	---	---
	Ant2	5240	17.862	5231.0090	5248.8711	---	---
	Ant1	5745	18.062	5735.8492	5753.9111	---	---
	Ant2	5745	18.302	5735.7692	5754.0709	---	---
	Ant1	5785	18.222	5775.9291	5794.1508	---	---
	Ant2	5785	17.902	5776.0889	5793.9910	---	---
	Ant1	5825	18.262	5815.8891	5834.1508	---	---
	Ant2	5825	18.102	5815.9690	5834.0709	---	---
11N40MIMO	Ant1	5190	36.044	5172.0180	5208.0619	---	---
	Ant2	5190	36.124	5171.8581	5207.9820	---	---
	Ant1	5230	36.044	5211.9381	5247.9820	---	---
	Ant2	5230	36.124	5211.7782	5247.9021	---	---
	Ant1	5755	36.444	5736.6983	5773.1419	---	---
	Ant2	5755	36.603	5736.6184	5773.2218	---	---
	Ant1	5795	36.603	5776.6184	5813.2218	---	---
	Ant2	5795	36.444	5776.7782	5813.2218	---	---
11AC80MIMO	Ant1	5210	75.445	5172.2777	5247.7223	---	---
	Ant2	5210	75.125	5172.2777	5247.4026	---	---

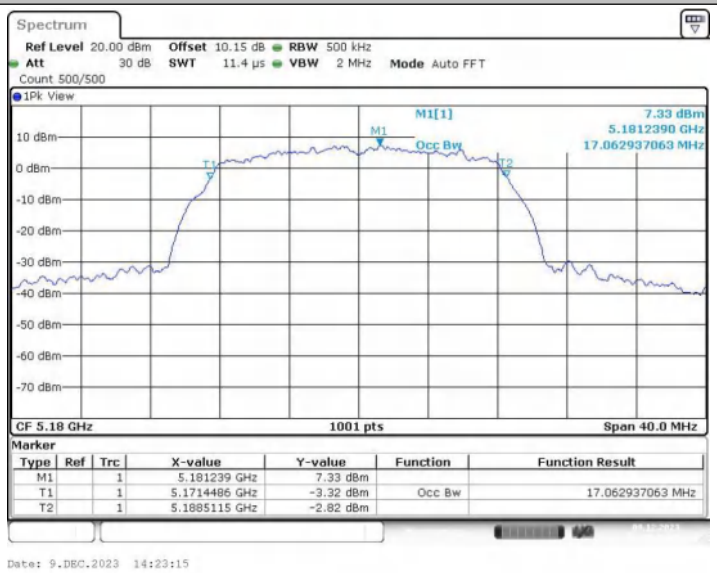
	Ant1	5775	75.764	5736.7982	5812.5624	---	---
	Ant2	5775	76.244	5736.7982	5813.0420	---	---

Test Graphs

11A_Ant1_5180



11A_Ant2_5180



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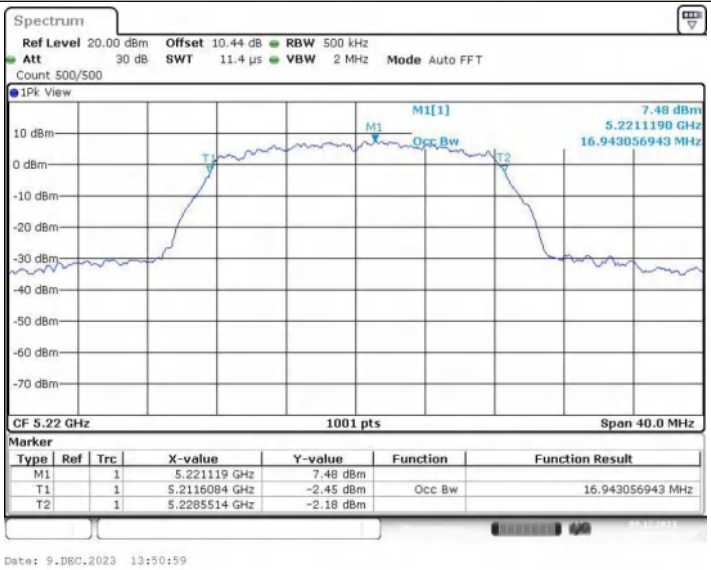
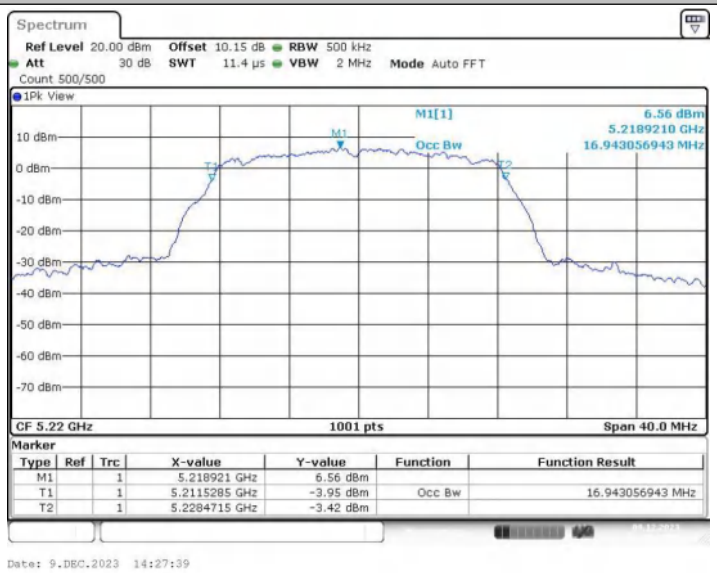


11A_Ant2_5220



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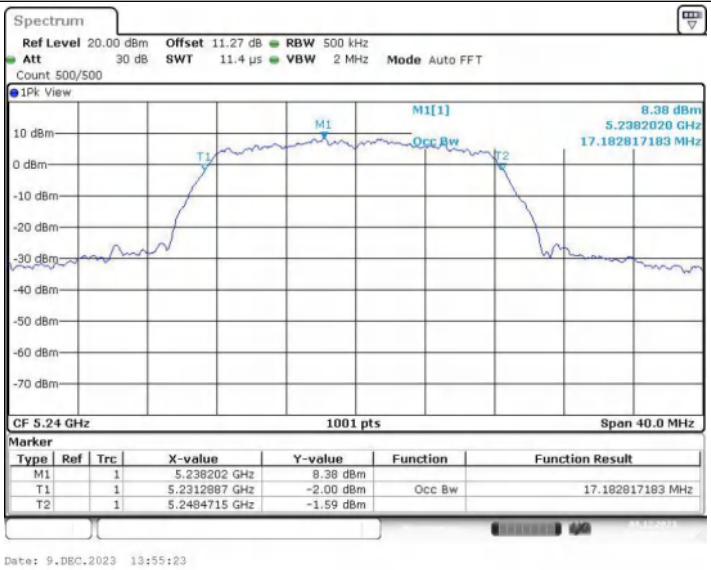

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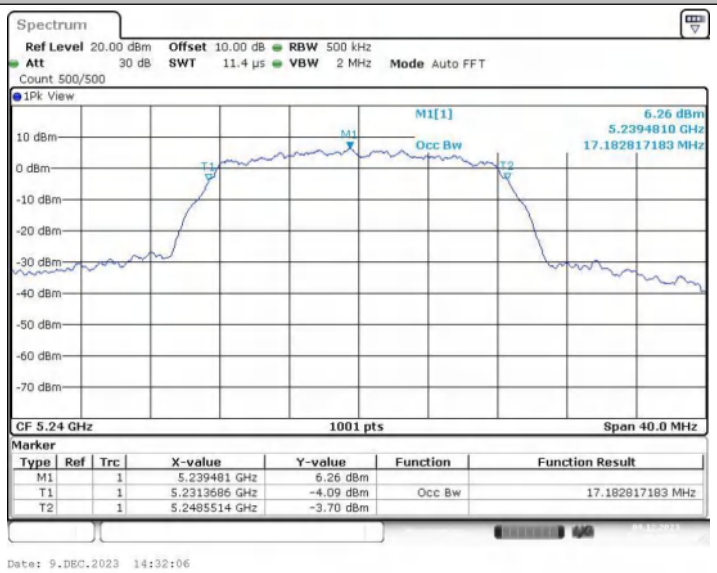

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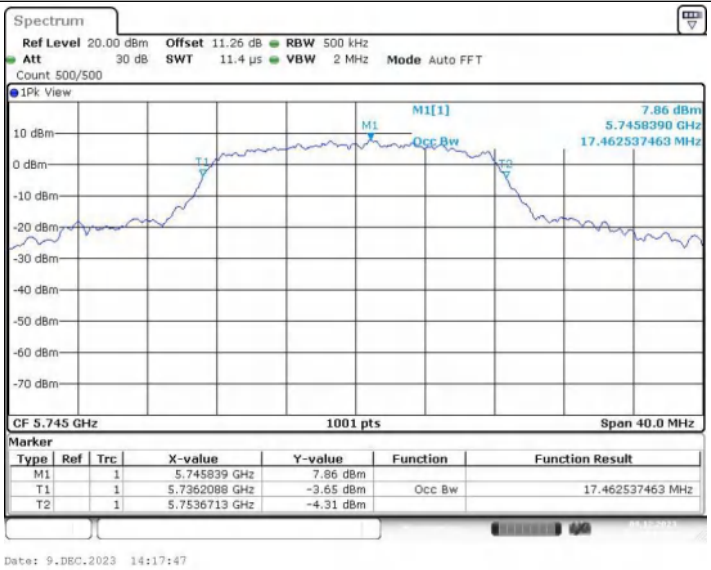

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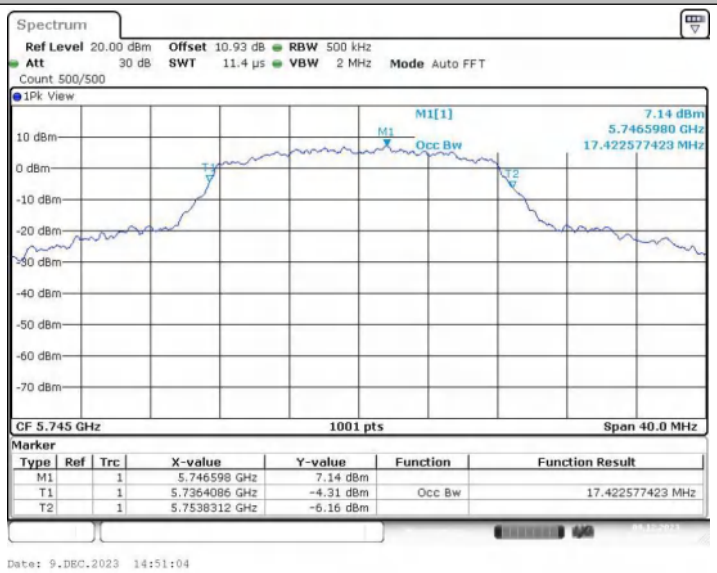

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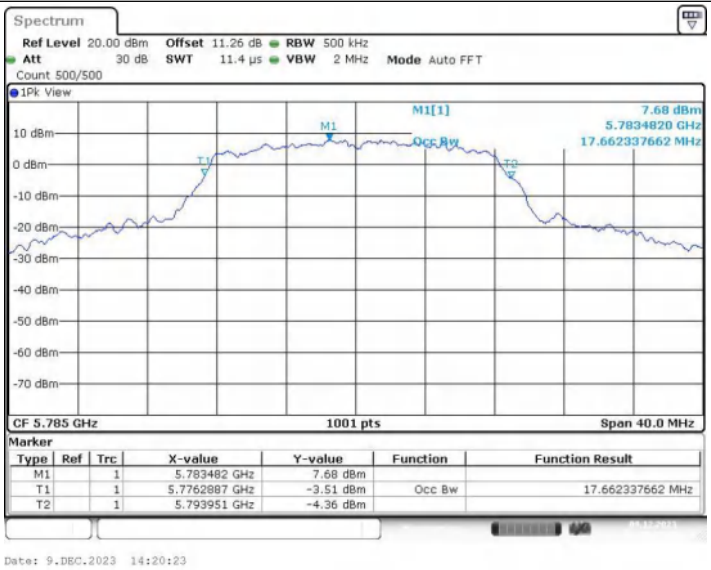

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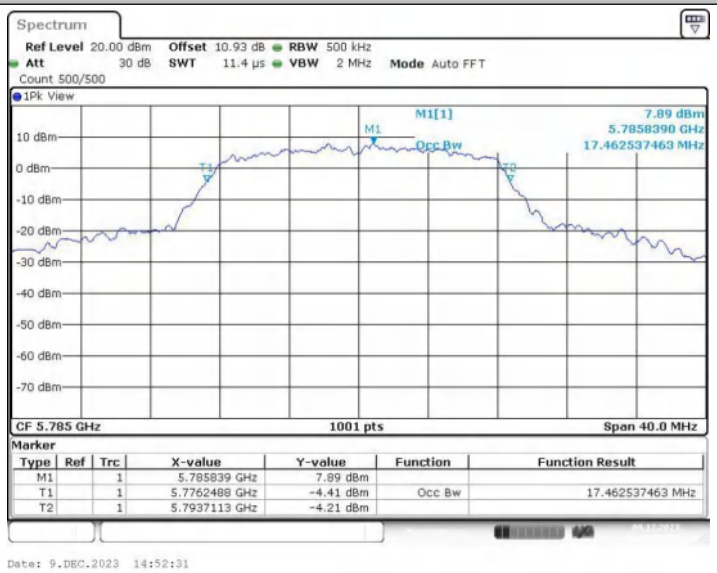

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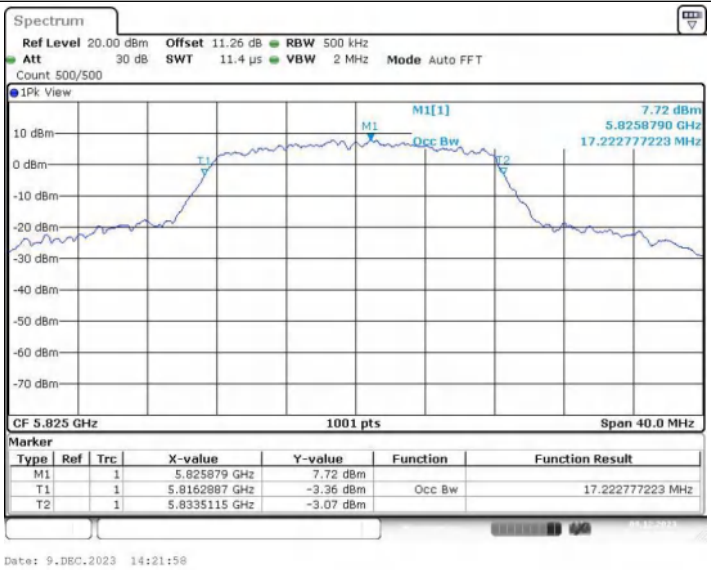

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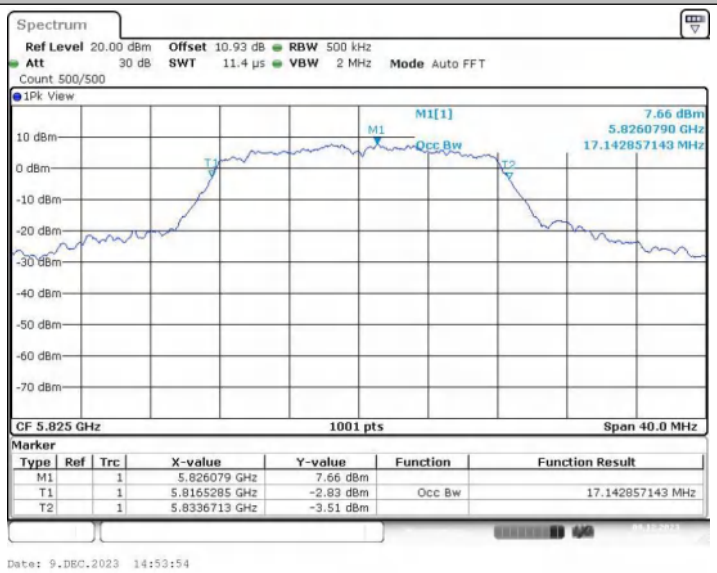

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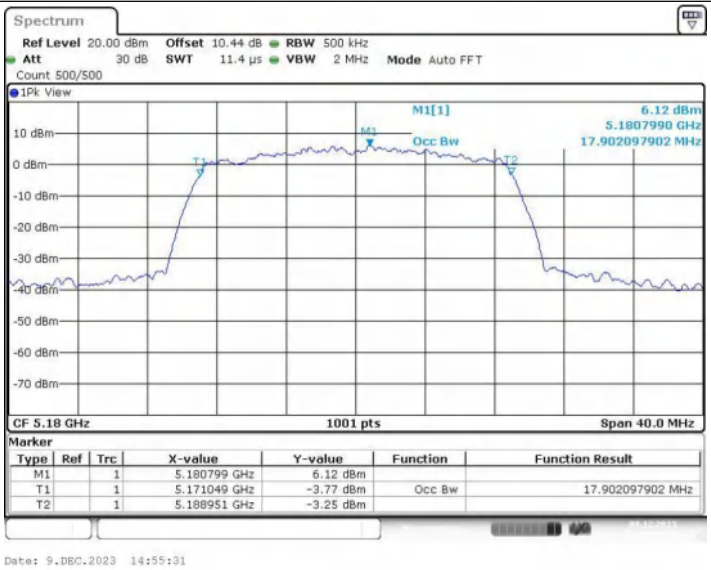

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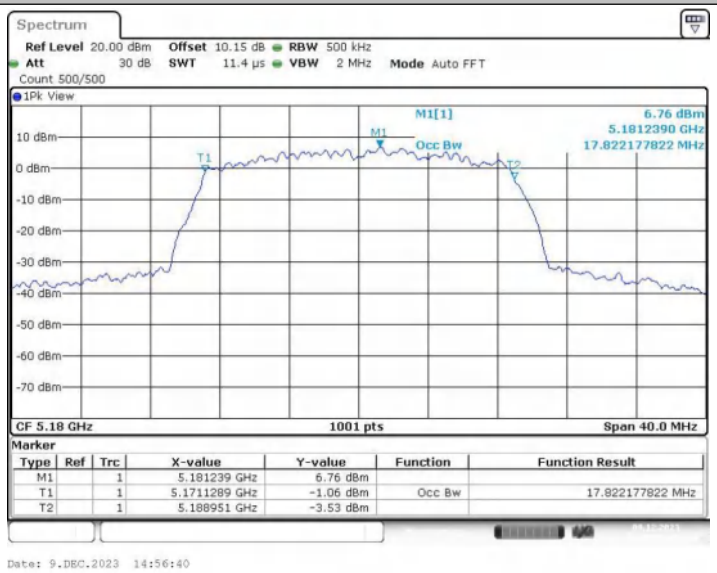

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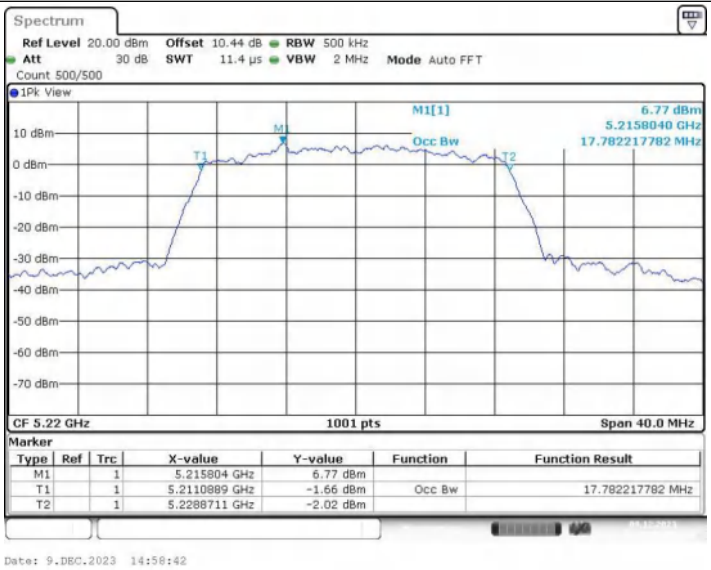

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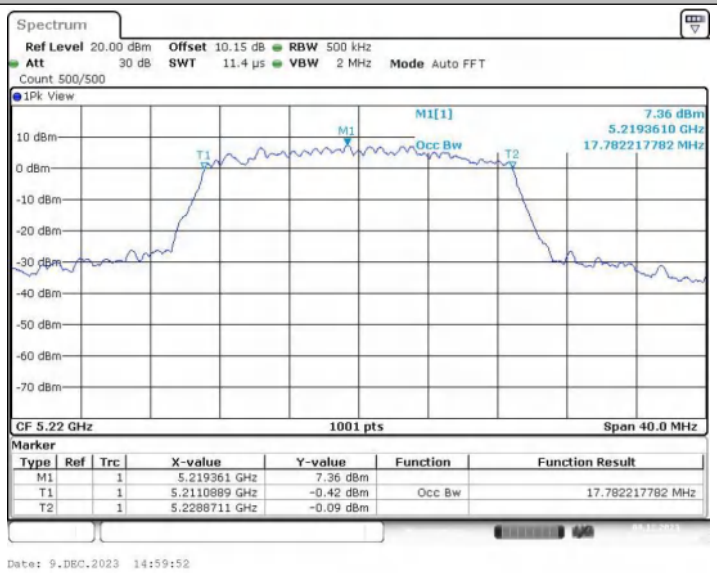

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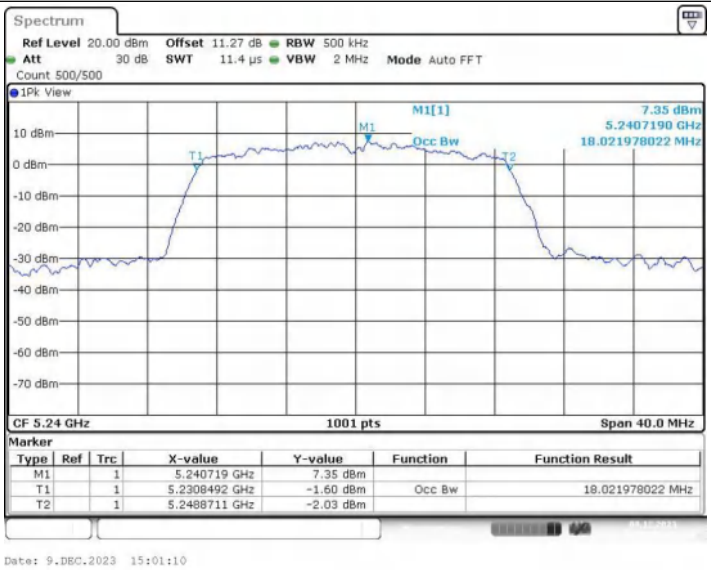

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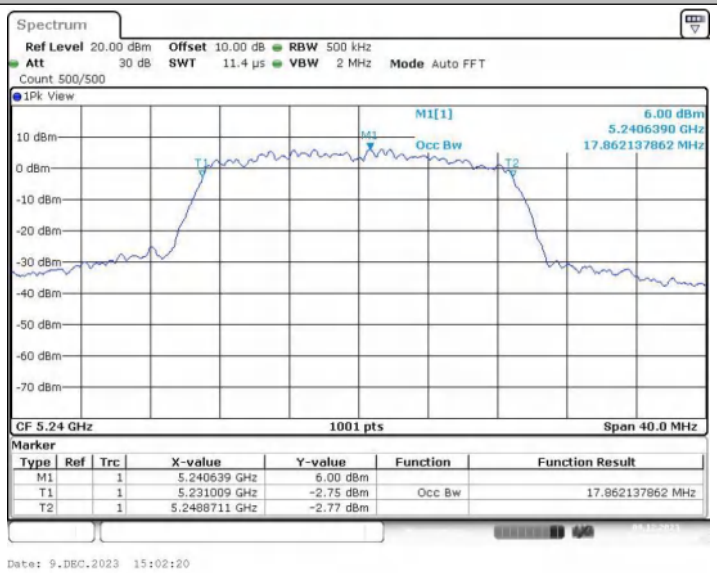

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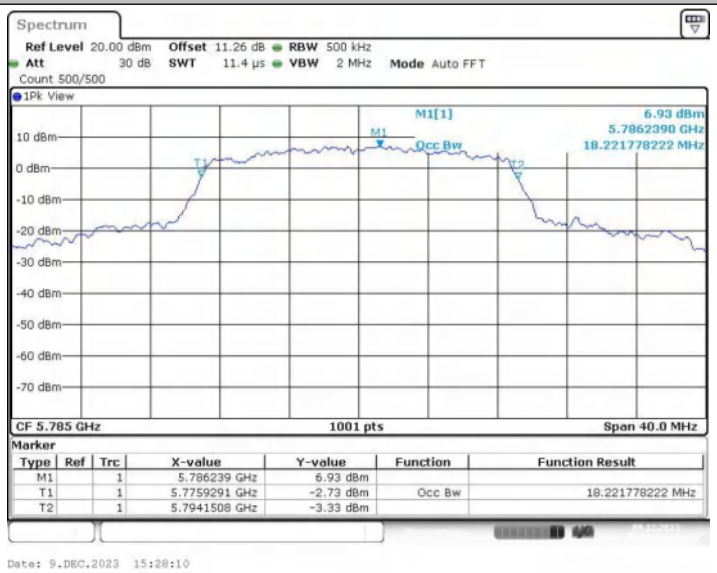

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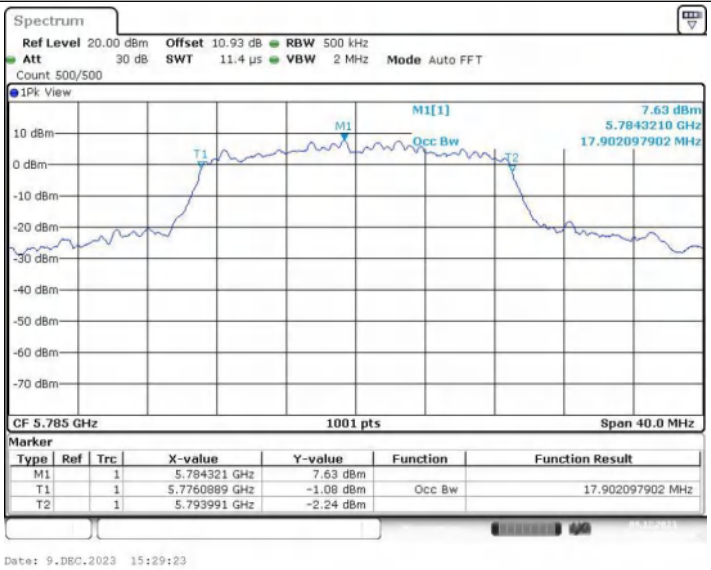

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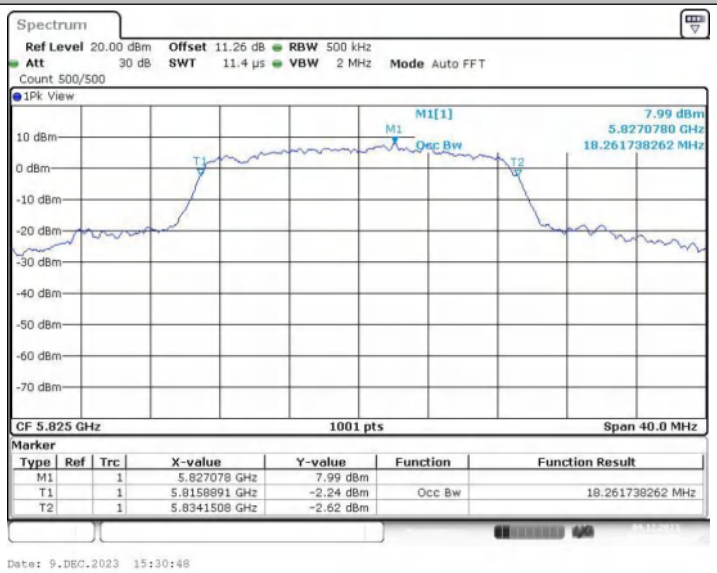

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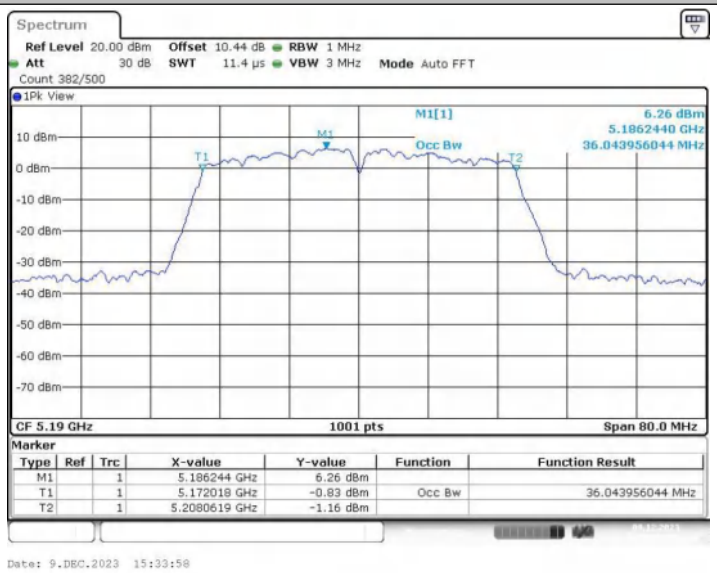

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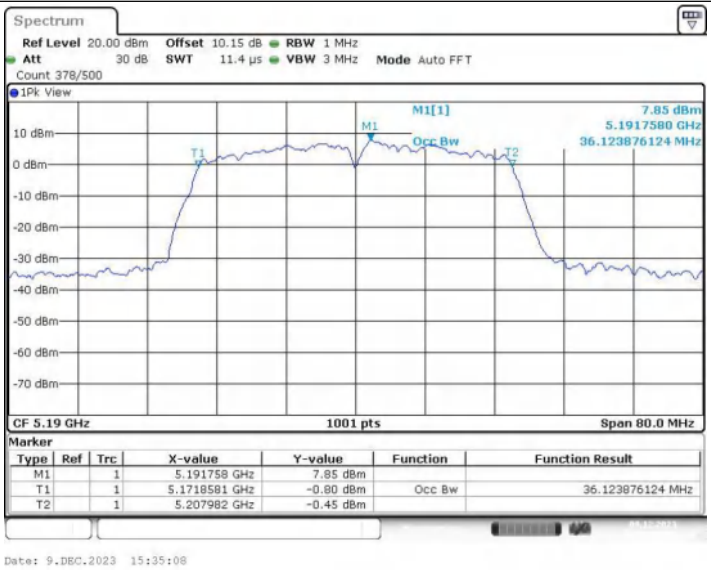

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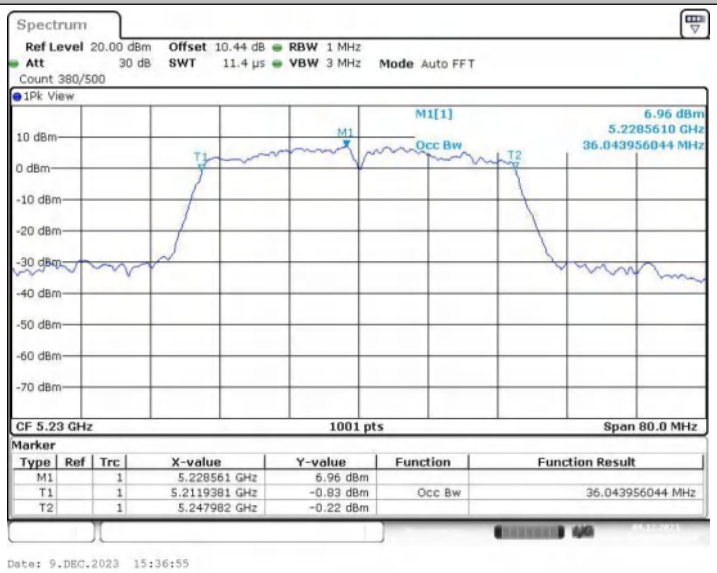

11N40MIMO_Ant2_5230

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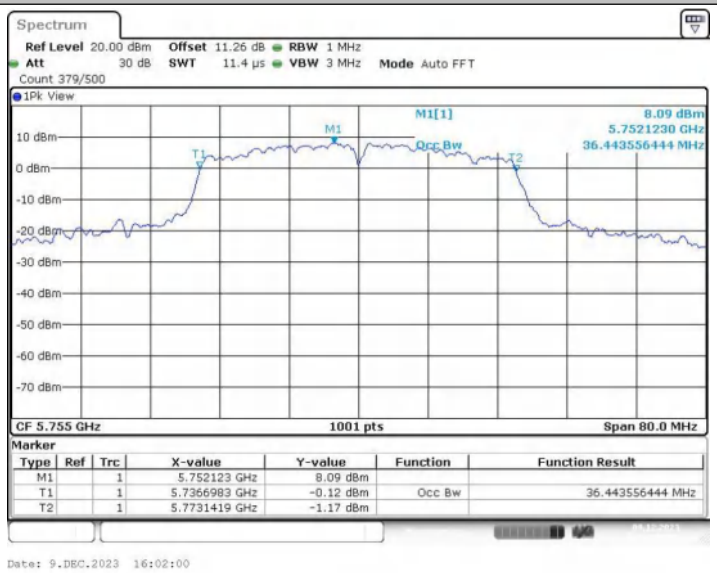

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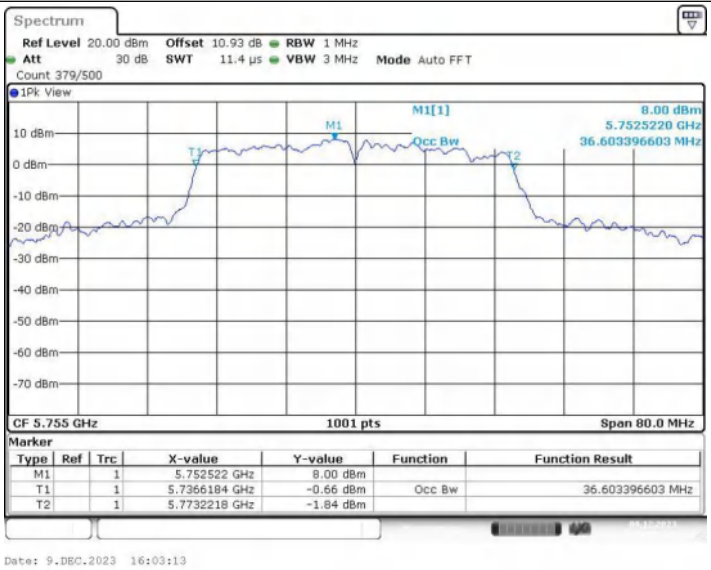

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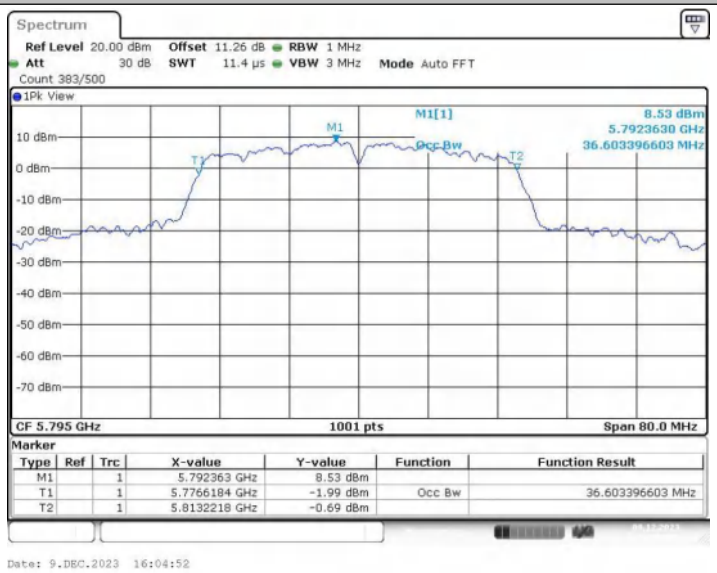

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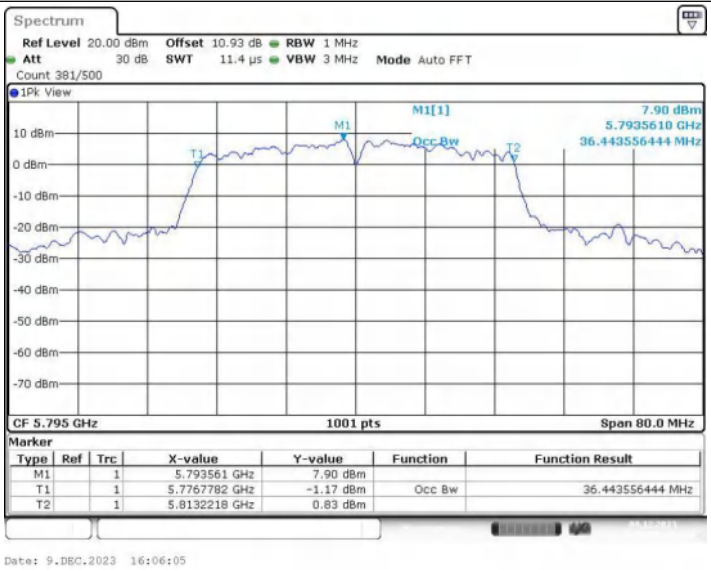

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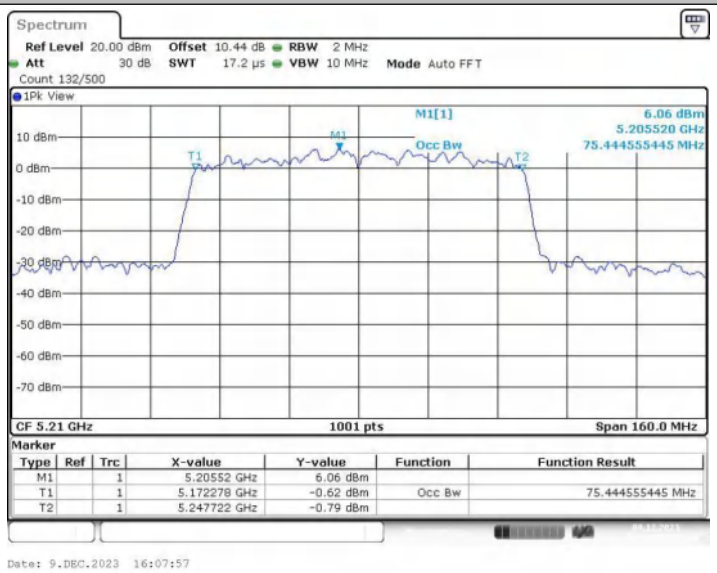

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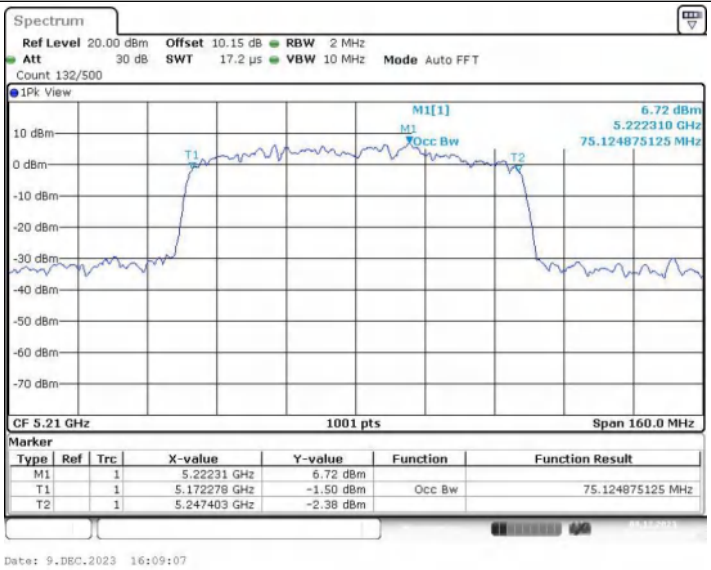

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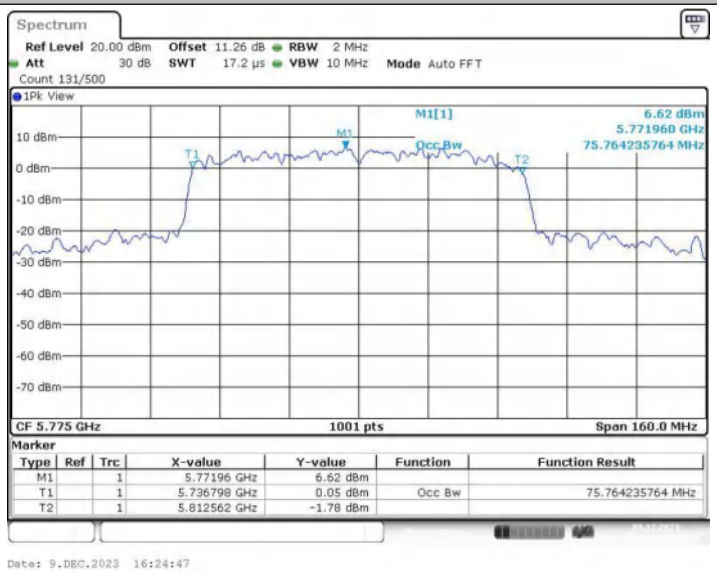

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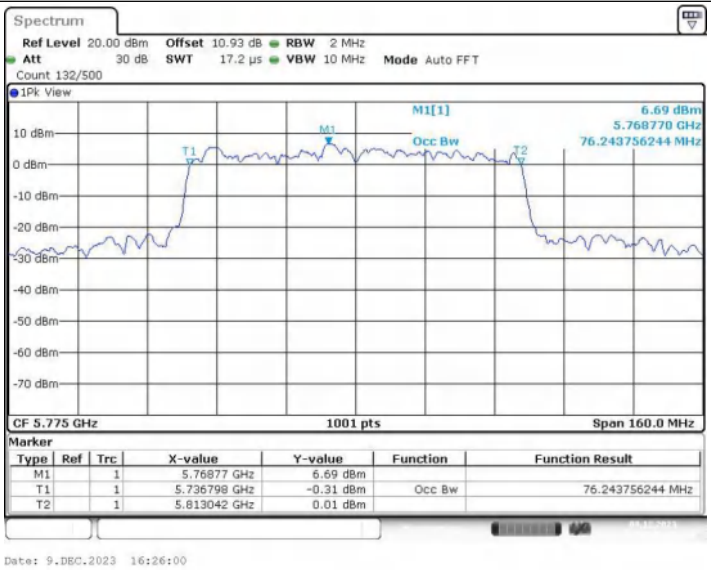

Spectrum
Ref Level 20.00 dBm Offset 10.93 dB RBW 2 MHz
Att 30 dB SWT 17.2 µs VBW 10 MHz Mode Auto FFT
Count 132/500
1Pk View
M1[1]
6.69 dBm
5.768770 GHz
76.243756244 MHz
Occ Bw
T1
M1
T2
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 5.775 GHz
1001 pts
Span 160.0 MHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 5.76877 GHz 6.69 dBm
T1 1 5.736798 GHz -0.31 dBm Occ Bw 76.243756244 MHz
T2 1 5.813042 GHz 0.01 dBm
Date: 9.DEC.2023 16:26:00

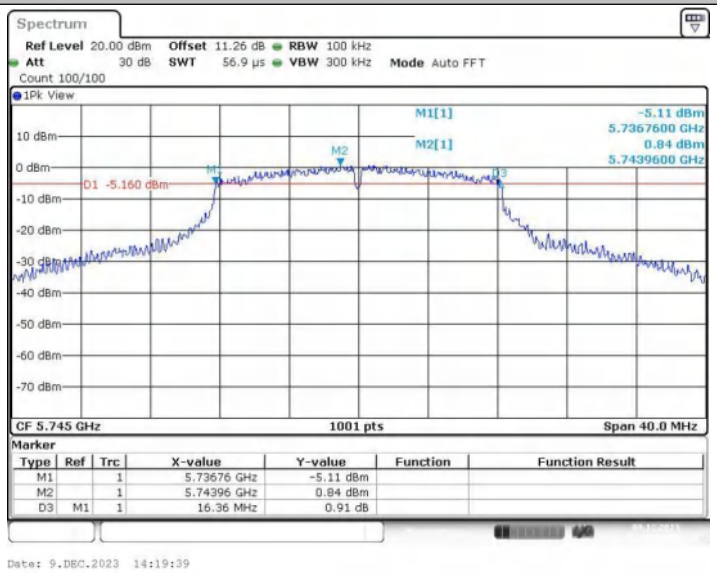
Appendix A3: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.36	5736.76	5753.12	0.5	PASS
	Ant2	5745	16.32	5736.80	5753.12	0.5	PASS
	Ant1	5785	16.32	5776.80	5793.12	0.5	PASS
	Ant2	5785	16.32	5776.80	5793.12	0.5	PASS
	Ant1	5825	16.32	5816.80	5833.12	0.5	PASS
	Ant2	5825	16.32	5816.80	5833.12	0.5	PASS
11N20MIMO	Ant1	5745	17.60	5736.16	5753.76	0.5	PASS
	Ant2	5745	16.32	5736.20	5752.52	0.5	PASS
	Ant1	5785	17.60	5776.16	5793.76	0.5	PASS
	Ant2	5785	17.60	5776.16	5793.76	0.5	PASS
	Ant1	5825	17.60	5816.16	5833.76	0.5	PASS
	Ant2	5825	17.56	5816.20	5833.76	0.5	PASS
11N40MIMO	Ant1	5755	36.08	5737.08	5773.16	0.5	PASS
	Ant2	5755	36.08	5736.76	5772.84	0.5	PASS
	Ant1	5795	35.60	5777.16	5812.76	0.5	PASS
	Ant2	5795	35.36	5777.40	5812.76	0.5	PASS
11AC80MIMO	Ant1	5775	76.32	5736.76	5813.08	0.5	PASS
	Ant2	5775	76.32	5736.76	5813.08	0.5	PASS

Test Graphs B4

11A_Ant1_5745



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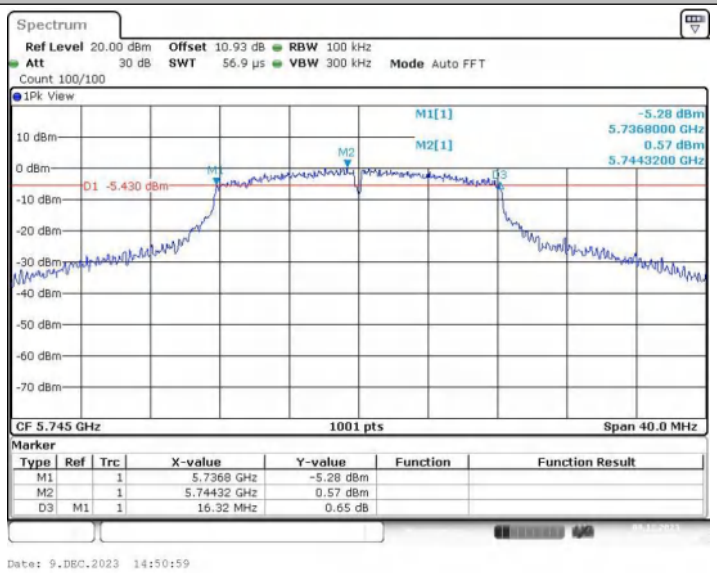

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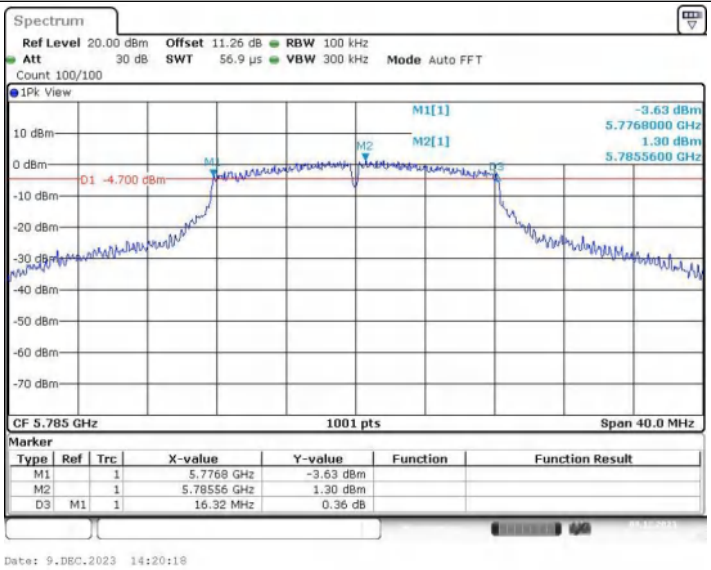

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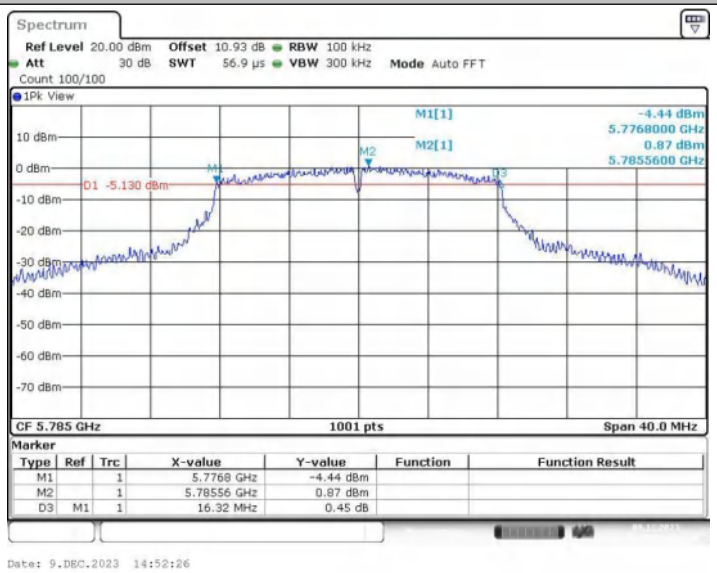

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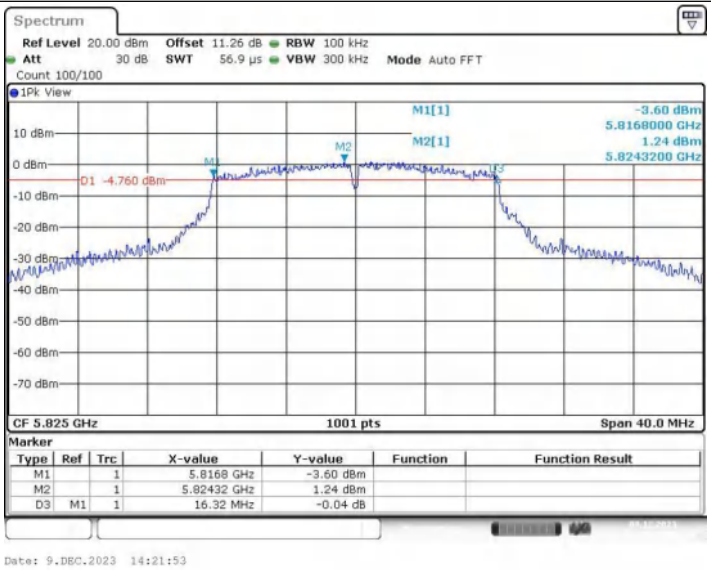

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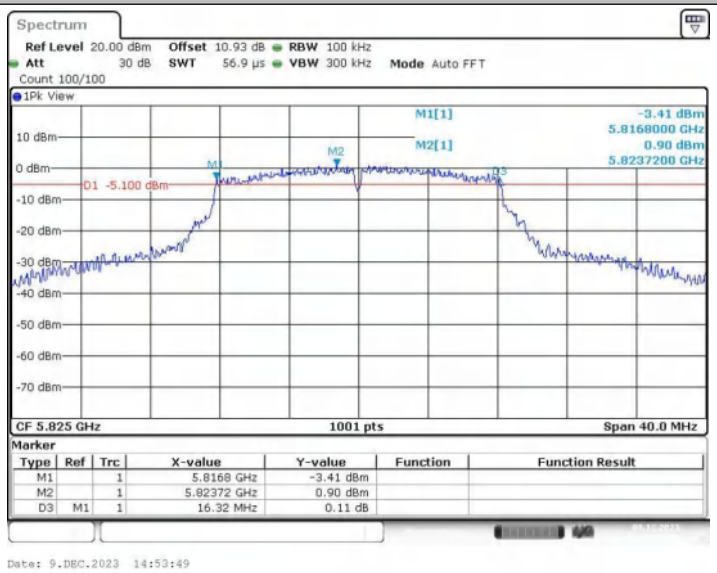

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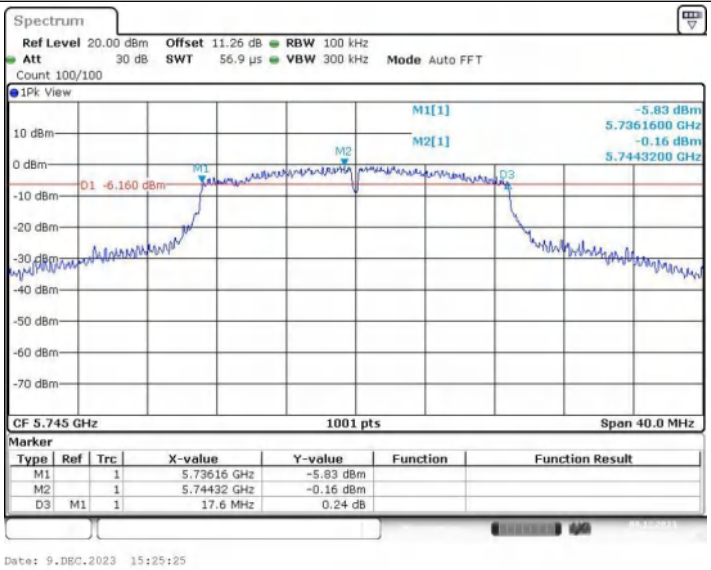

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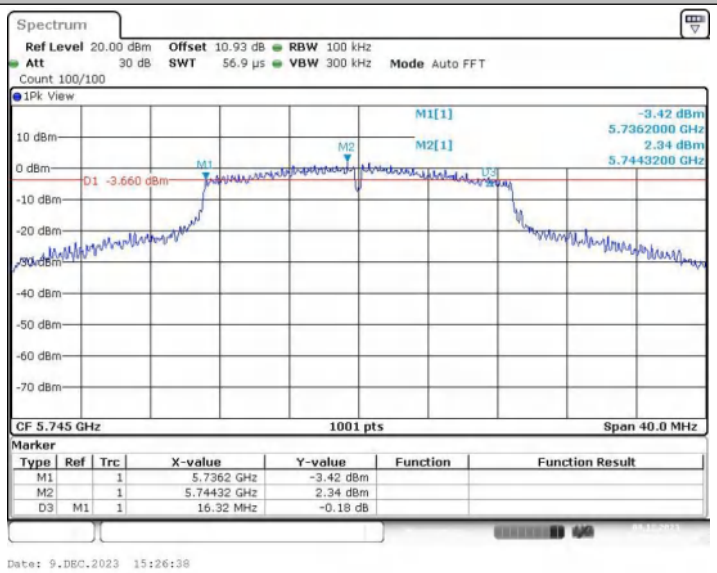

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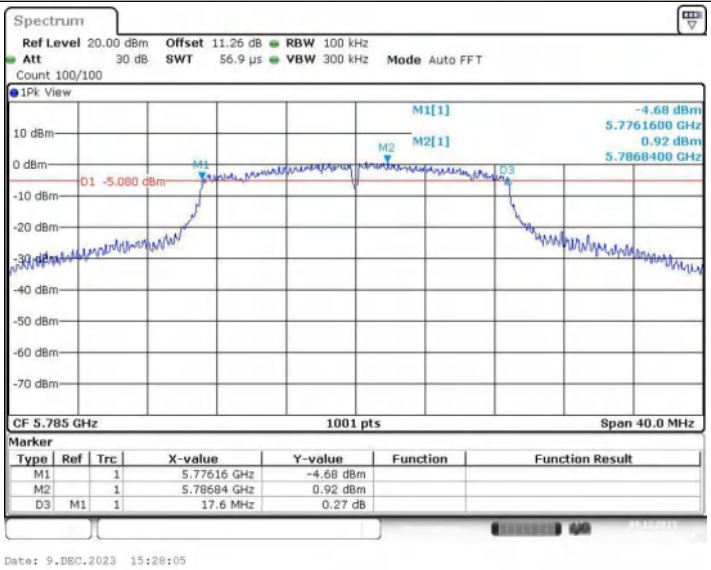

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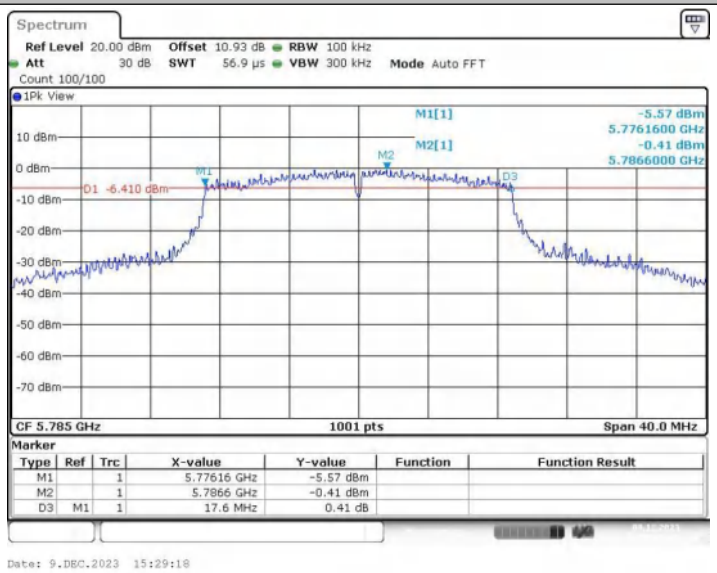

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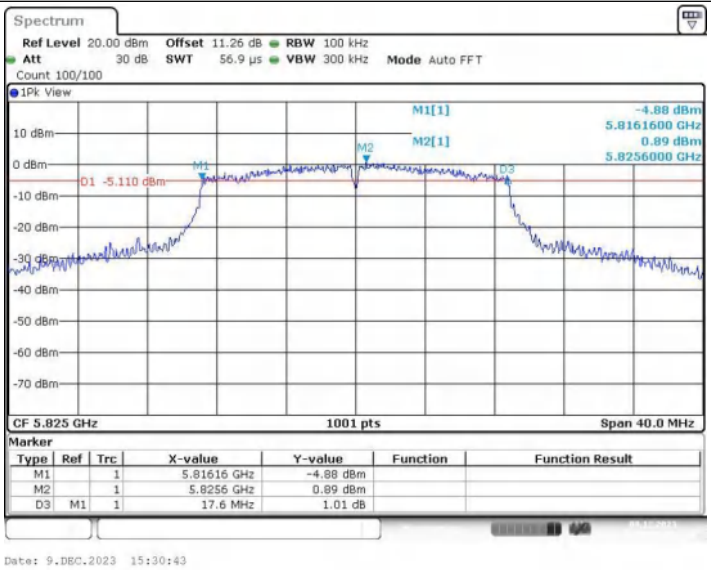

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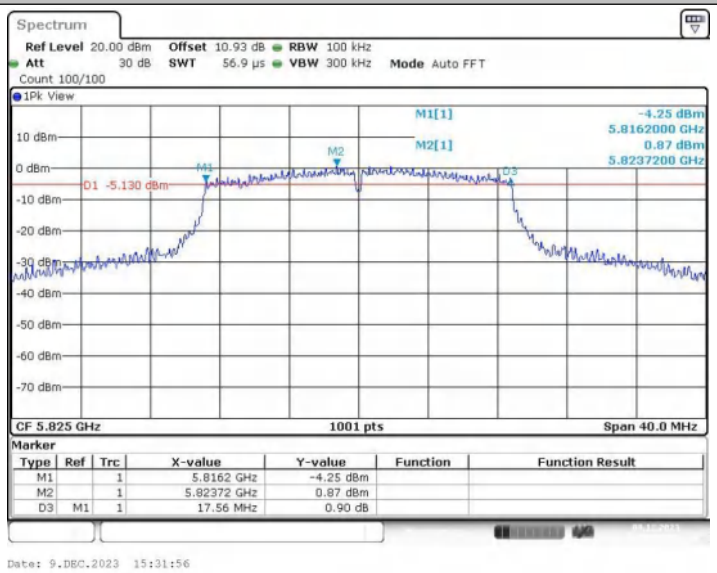

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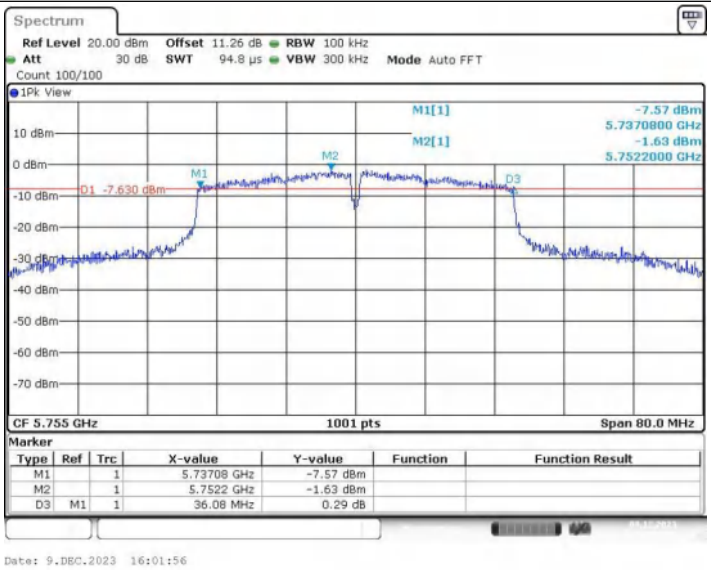

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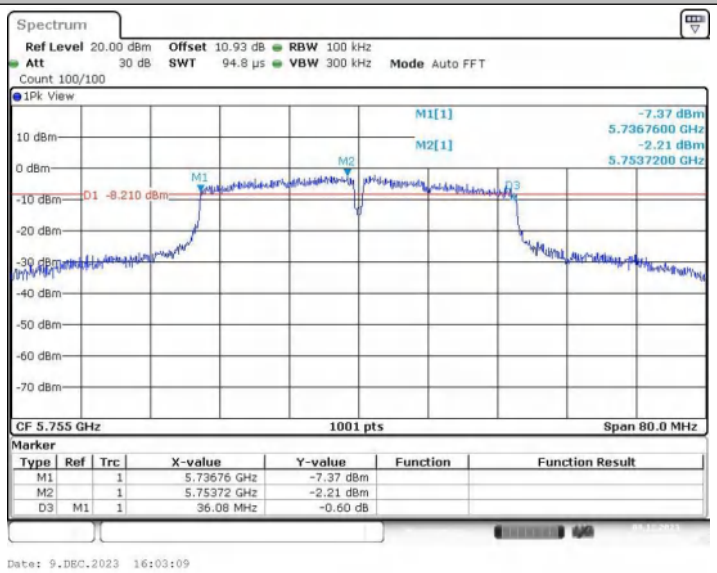

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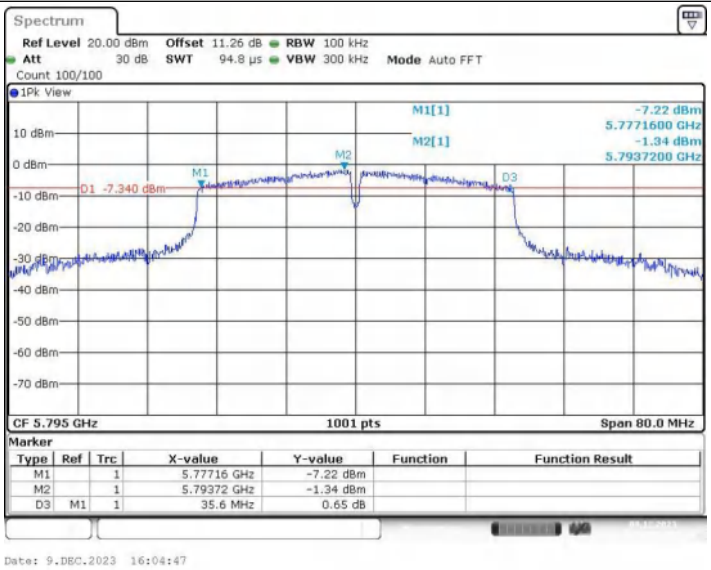

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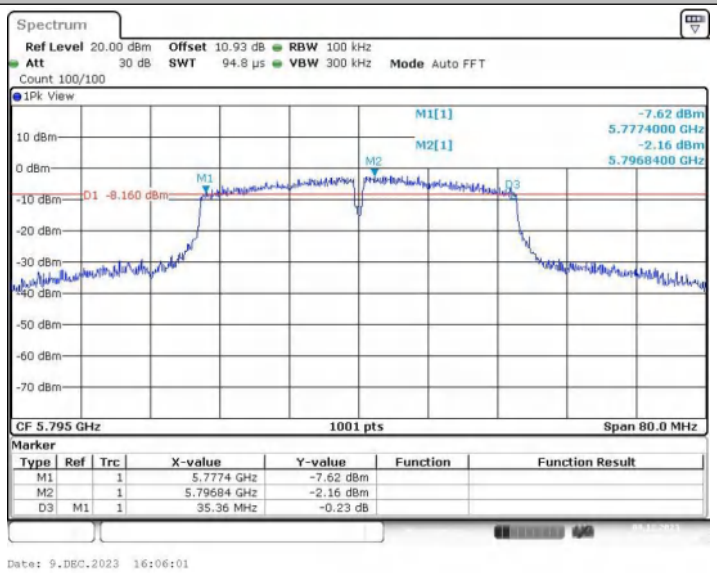

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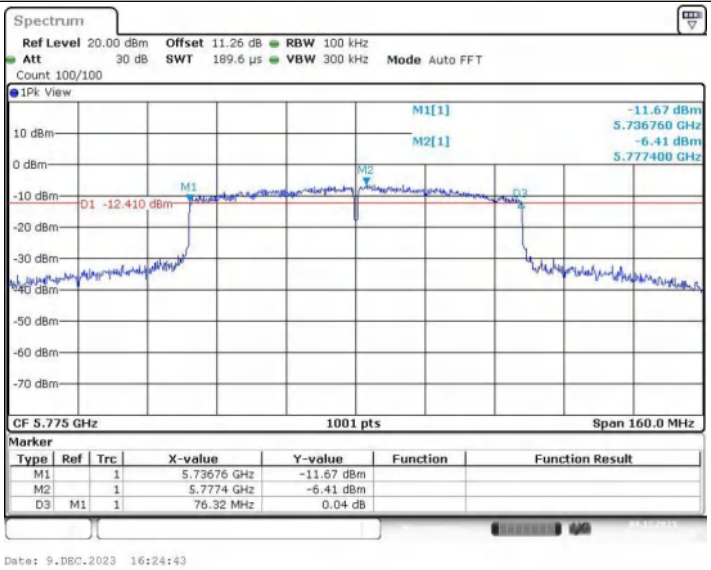
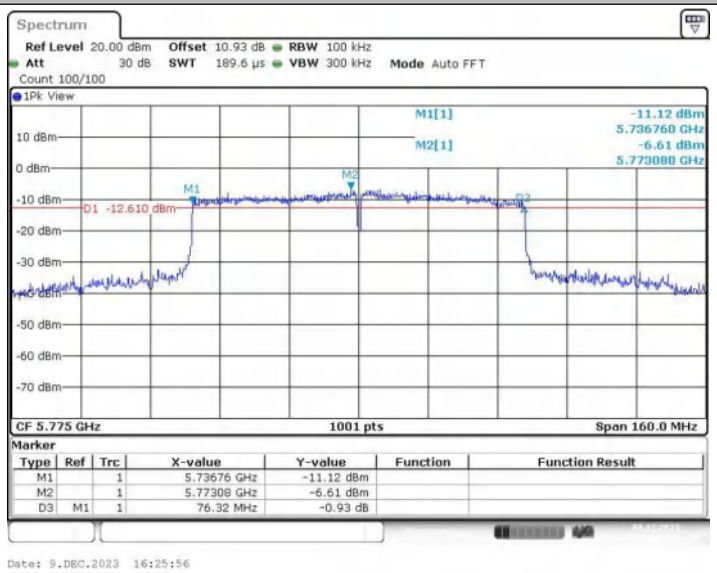


11AC80MIMO_Ant2_5775



Appendix B: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	27.00	27.00	100.00	---	---
	Ant2	5180	27.00	27.00	100.00	---	---
	Ant1	5220	27.00	27.00	100.00	---	---
	Ant2	5220	27.00	27.00	100.00	---	---
	Ant1	5240	27.00	27.00	100.00	---	---
	Ant2	5240	27.00	27.00	100.00	---	---
	Ant1	5745	27.00	27.00	100.00	---	---
	Ant2	5745	27.00	27.00	100.00	---	---
	Ant1	5785	27.00	27.00	100.00	---	---
	Ant2	5785	27.00	27.00	100.00	---	---
	Ant1	5825	27.00	27.00	100.00	---	---
	Ant2	5825	27.00	27.00	100.00	---	---
11N20MIMO	Ant1	5180	27.00	27.00	100.00	---	---
	Ant2	5180	27.00	27.00	100.00	---	---
	Ant1	5220	27.00	27.00	100.00	---	---
	Ant2	5220	27.00	27.00	100.00	---	---
	Ant1	5240	27.00	27.00	100.00	---	---
	Ant2	5240	27.00	27.00	100.00	---	---
	Ant1	5745	27.00	27.00	100.00	---	---
	Ant2	5745	27.00	27.00	100.00	---	---
	Ant1	5785	27.00	27.00	100.00	---	---
	Ant2	5785	27.00	27.00	100.00	---	---
	Ant1	5825	27.00	27.00	100.00	---	---
	Ant2	5825	27.00	27.00	100.00	---	---
11N40MIMO	Ant1	5190	27.00	27.00	100.00	---	---
	Ant2	5190	27.00	27.00	100.00	---	---
	Ant1	5230	27.00	27.00	100.00	---	---
	Ant2	5230	27.00	27.00	100.00	---	---
	Ant1	5755	27.00	27.00	100.00	---	---
	Ant2	5755	27.00	27.00	100.00	---	---
	Ant1	5795	27.00	27.00	100.00	---	---
	Ant2	5795	27.00	27.00	100.00	---	---
11AC80MIMO	Ant1	5210	27.00	27.00	100.00	---	---
	Ant2	5210	27.00	27.00	100.00	---	---

	Ant1	5775	27.00	27.00	100.00	---	---
	Ant2	5775	27.00	27.00	100.00	---	---

Appendix C: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11A	Ant1	5180	8.91	≤23.98	-1.56	7.35	---	PASS
	Ant2	5180	9.01	≤23.98	-3.01	6.00	---	PASS
	Ant1	5220	9.49	≤23.98	-1.56	7.93	---	PASS
	Ant2	5220	8.74	≤23.98	-3.01	5.73	---	PASS
	Ant1	5240	9.51	≤23.98	-1.56	7.95	---	PASS
	Ant2	5240	8.35	≤23.98	-3.01	5.34	---	PASS
	Ant1	5745	12.43	≤29.49	2.88	15.31	---	PASS
	Ant2	5745	11.95	≤29.49	4.07	16.02	---	PASS
	Ant1	5785	12.66	≤29.49	2.88	15.54	---	PASS
	Ant2	5785	12.68	≤29.49	4.07	16.75	---	PASS
	Ant1	5825	13.04	≤29.49	2.88	15.92	---	PASS
	Ant2	5825	13.51	≤29.49	4.07	17.58	---	PASS
11N20MIMO	Ant1	5180	9.44	≤23.98	-1.56	7.88	---	PASS
	Ant2	5180	9.45	≤23.98	-3.01	6.44	---	PASS
	total	5180	12.46	≤23.98	---	10.23	---	PASS
	Ant1	5220	9.46	≤23.98	-1.56	7.90	---	PASS
	Ant2	5220	9.52	≤23.98	-3.01	6.51	---	PASS
	total	5220	12.50	≤23.98	---	10.27	---	PASS
	Ant1	5240	9.55	≤23.98	-1.56	7.99	---	PASS
	Ant2	5240	8.56	≤23.98	-3.01	5.55	---	PASS
	total	5240	12.09	≤23.98	---	9.95	---	PASS
	Ant1	5745	8.75	≤29.49	2.88	11.63	---	PASS
	Ant2	5745	9.50	≤29.49	4.07	13.57	---	PASS
	total	5745	12.15	≤29.49	---	15.72	---	PASS
	Ant1	5785	8.80	≤29.49	2.88	11.68	---	PASS
	Ant2	5785	7.57	≤29.49	4.07	11.64	---	PASS
	total	5785	11.24	≤29.49	---	14.67	---	PASS
	Ant1	5825	9.09	≤29.49	2.88	11.97	---	PASS
	Ant2	5825	8.94	≤29.49	4.07	13.01	---	PASS
	total	5825	12.03	≤29.49	---	15.53	---	PASS
11N40MIMO	Ant1	5190	10.11	≤23.98	-1.56	8.55	---	PASS
	Ant2	5190	10.66	≤23.98	-3.01	7.65	---	PASS
	total	5190	13.40	≤23.98	---	11.13	---	PASS

	Ant1	5230	10.12	≤23.98	-1.56	8.56	---	PASS
	Ant2	5230	9.85	≤23.98	-3.01	6.84	---	PASS
	total	5230	13.00	≤23.98	---	10.79	---	PASS
	Ant1	5755	10.47	≤29.49	2.88	13.35	---	PASS
	Ant2	5755	10.66	≤29.49	4.07	14.73	---	PASS
	total	5755	13.58	≤29.49	---	17.10	---	PASS
	Ant1	5795	10.23	≤29.49	2.88	13.11	---	PASS
	Ant2	5795	9.66	≤29.49	4.07	13.73	---	PASS
	total	5795	12.96	≤29.49	---	16.44	---	PASS
11AC80M IMO	Ant1	5210	11.12	≤23.98	-1.56	9.56	---	PASS
	Ant2	5210	11.36	≤23.98	-3.01	8.35	---	PASS
	total	5210	14.25	≤23.98	---	12.01	---	PASS
	Ant1	5775	9.53	≤29.49	2.88	12.41	---	PASS
	Ant2	5775	9.43	≤29.49	4.07	13.50	---	PASS
	total	5775	12.49	≤29.49	---	16.00	---	PASS

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

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-1.37	≤11.00	PASS
	Ant2	5180	-1.27	≤11.00	PASS
	Ant1	5220	-0.65	≤11.00	PASS
	Ant2	5220	-1.5	≤11.00	PASS
	Ant1	5240	-0.84	≤11.00	PASS
	Ant2	5240	-1.86	≤11.00	PASS
	Ant1	5745	-0.53	≤29.49	PASS
	Ant2	5745	-0.91	≤29.49	PASS
	Ant1	5785	-0.55	≤29.49	PASS
	Ant2	5785	-0.57	≤29.49	PASS
	Ant1	5825	-0.16	≤29.49	PASS
	Ant2	5825	0.04	≤29.49	PASS
11N20MIMO	Ant1	5180	-1.23	≤11.00	PASS
	Ant2	5180	-0.65	≤11.00	PASS
	total	5180	2.08	≤11.00	PASS
	Ant1	5220	-1.13	≤11.00	PASS
	Ant2	5220	-0.96	≤11.00	PASS
	total	5220	1.97	≤11.00	PASS
	Ant1	5240	-0.7	≤11.00	PASS
	Ant2	5240	-2.07	≤11.00	PASS
	total	5240	1.68	≤11.00	PASS
	Ant1	5745	-4.11	≤29.49	PASS
	Ant2	5745	-3.85	≤29.49	PASS
	total	5745	-0.97	≤29.49	PASS
	Ant1	5785	-4.39	≤29.49	PASS
	Ant2	5785	-5.62	≤29.49	PASS
	total	5785	-1.95	≤29.49	PASS
	Ant1	5825	-4.13	≤29.49	PASS
	Ant2	5825	-4.32	≤29.49	PASS
	total	5825	-1.21	≤29.49	PASS
11N40MIMO	Ant1	5190	-3.01	≤11.00	PASS
	Ant2	5190	-2.19	≤11.00	PASS
	total	5190	0.43	≤11.00	PASS
	Ant1	5230	-3.03	≤11.00	PASS
	Ant2	5230	-2.97	≤11.00	PASS

	total	5230	0.01	≤11.00	PASS
	Ant1	5755	-5.53	≤29.49	PASS
	Ant2	5755	-5.78	≤29.49	PASS
	total	5755	-2.64	≤29.49	PASS
	Ant1	5795	-5.74	≤29.49	PASS
	Ant2	5795	-6.22	≤29.49	PASS
	total	5795	-2.96	≤29.49	PASS
11AC80MIMO	Ant1	5210	-5.49	≤11.00	PASS
	Ant2	5210	-4.89	≤11.00	PASS
	total	5210	-2.17	≤11.00	PASS
	Ant1	5775	-10.63	≤29.49	PASS
	Ant2	5775	-10.68	≤29.49	PASS
	total	5775	-7.64	≤29.49	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.

Test Graphs

11A_Ant1_5180

11A_Ant2_5180

11A_Ant1_5220

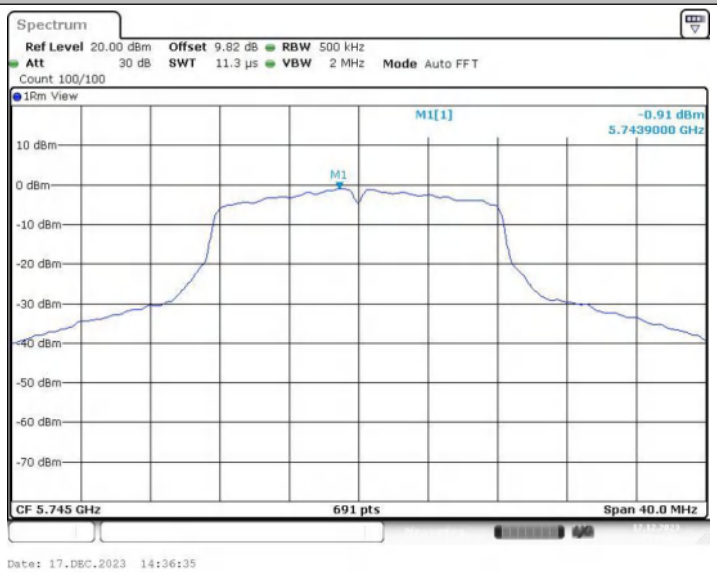
11A_Ant2_5220

11A_Ant1_5240

11A_Ant2_5240

11A_Ant1_5745

11A_Ant2_5745



11A_Ant1_5785

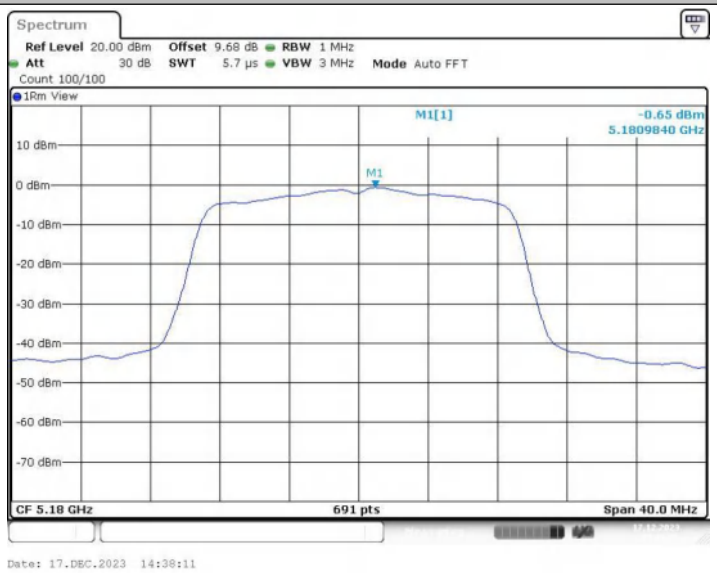
11A_Ant2_5785

11A_Ant1_5825

11A_Ant2_5825

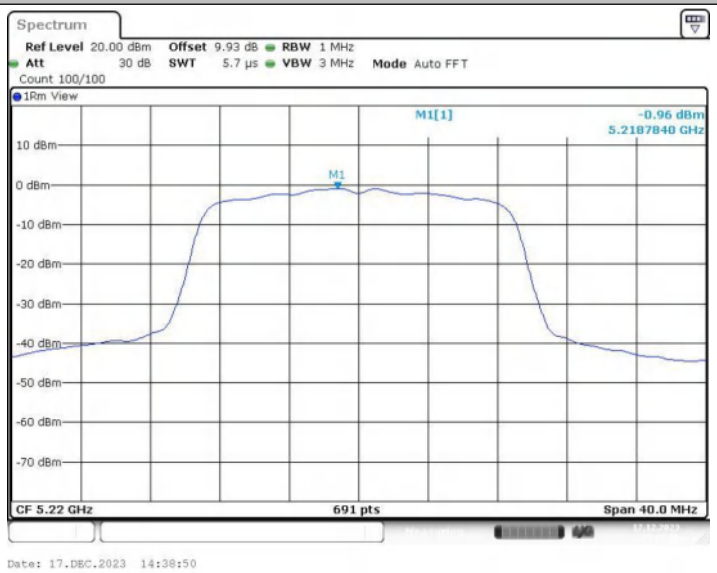
11N20MIMO_Ant1_5180

11N20MIMO_Ant2_5180



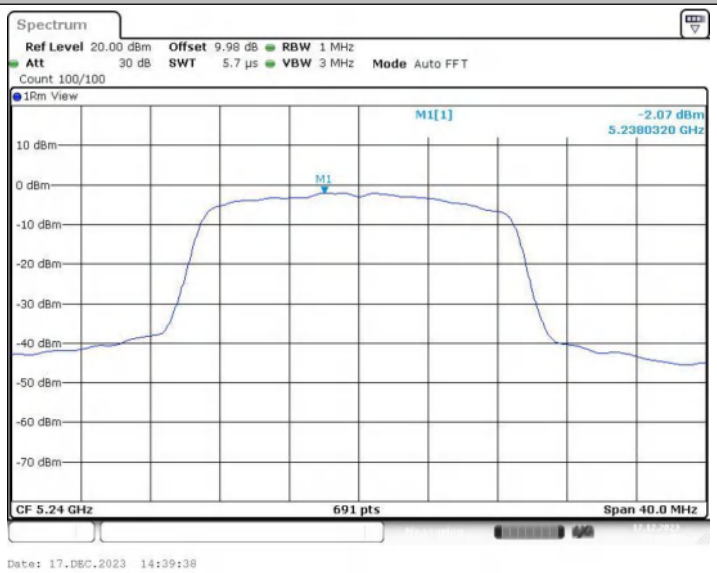
11N20MIMO_Ant1_5220

11N20MIMO_Ant2_5220



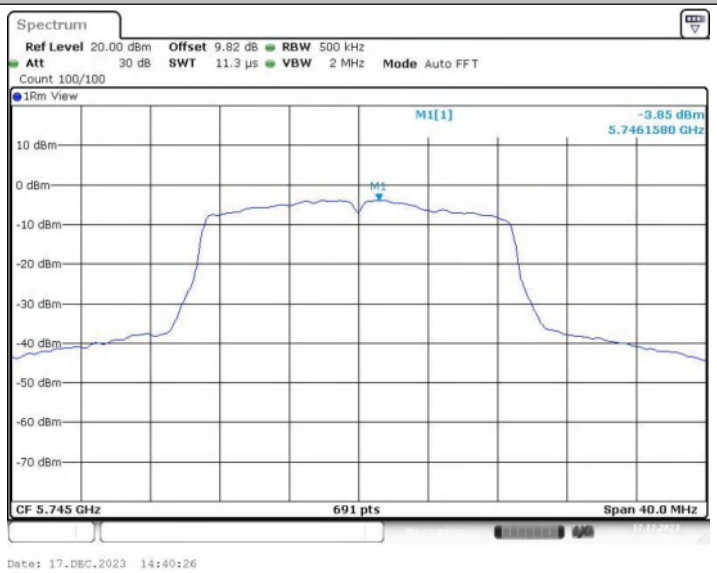
11N20MIMO_Ant1_5240

11N20MIMO_Ant2_5240



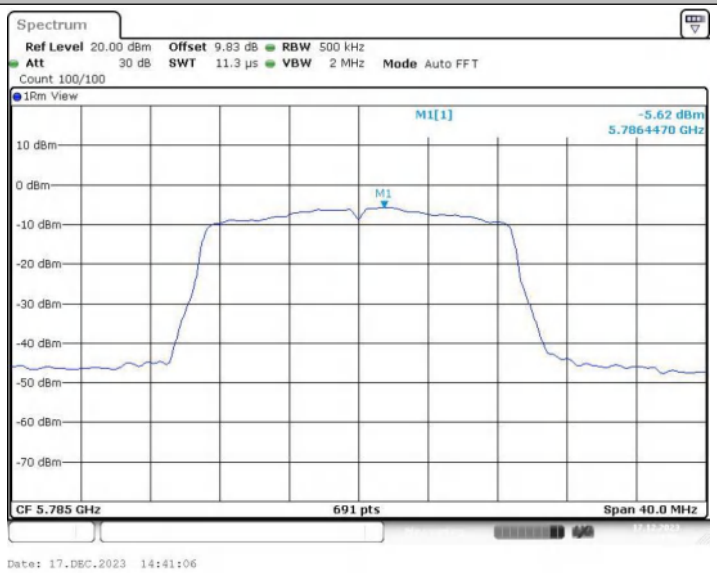
11N20MIMO_Ant1_5745

11N20MIMO_Ant2_5745



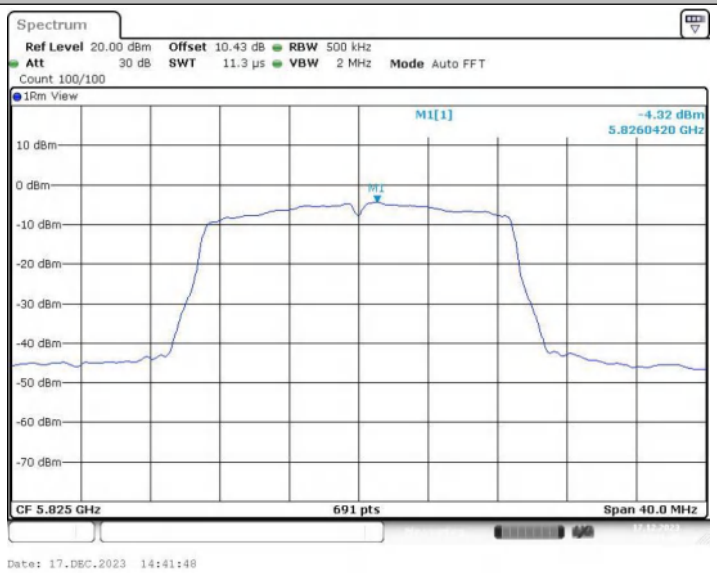
11N20MIMO_Ant1_5785

11N20MIMO_Ant2_5785



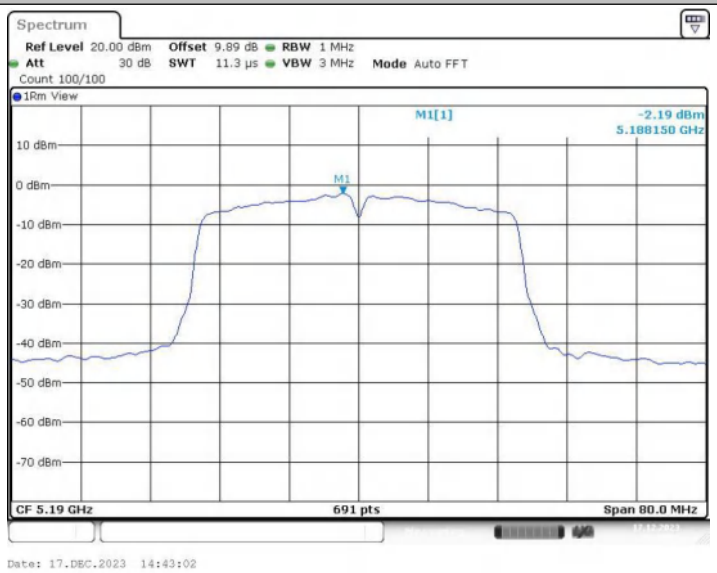
11N20MIMO_Ant1_5825

11N20MIMO_Ant2_5825



11N40MIMO_Ant1_5190

11N40MIMO_Ant2_5190

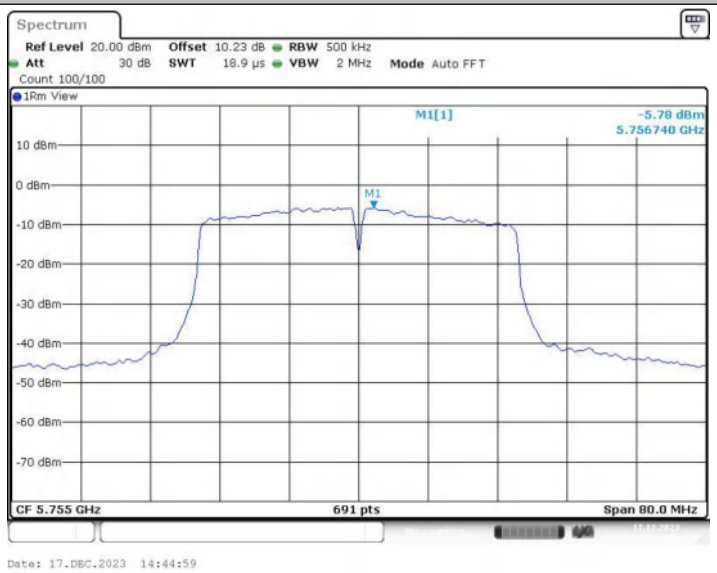


11N40MIMO_Ant1_5230

11N40MIMO_Ant2_5230

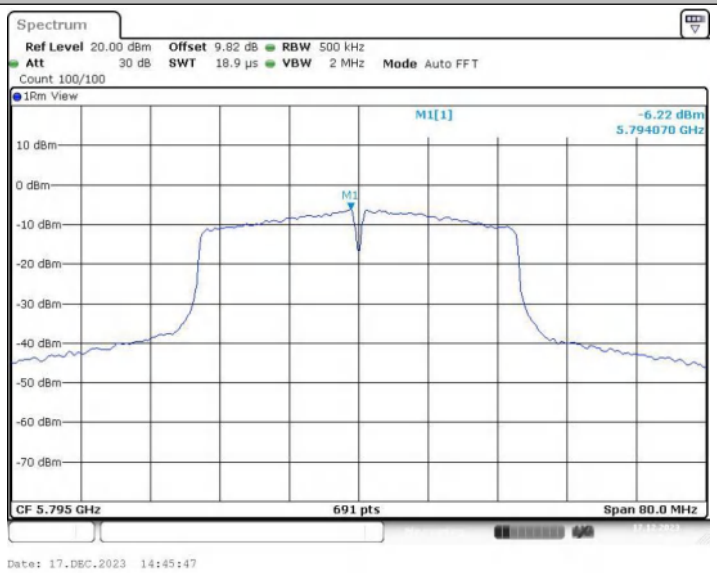
11N40MIMO_Ant1_5755

11N40MIMO_Ant2_5755

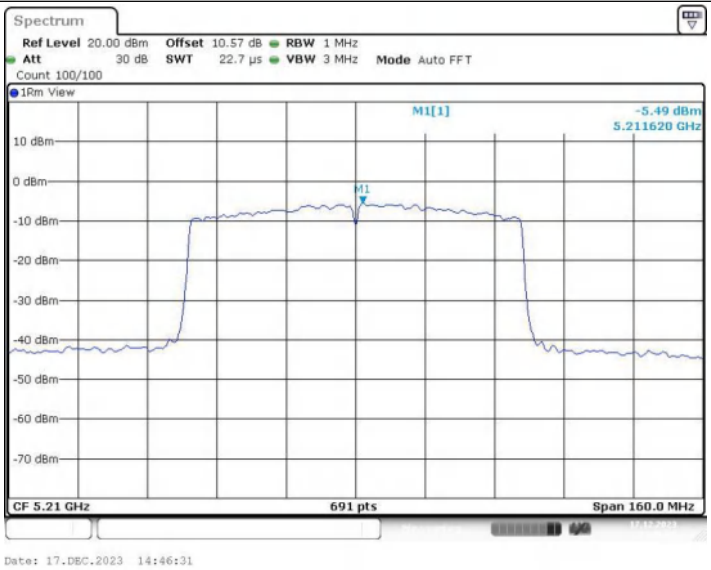


11N40MIMO_Ant1_5795

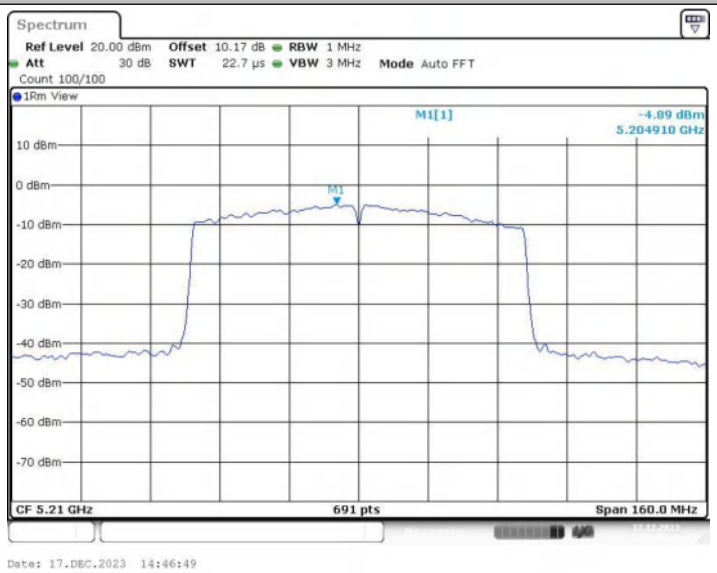
11N40MIMO_Ant2_5795



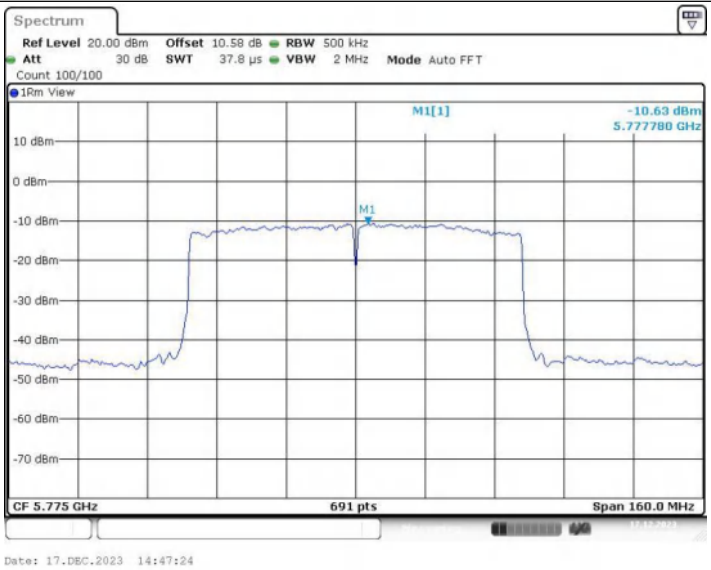
11AC80MIMO_Ant1_5210



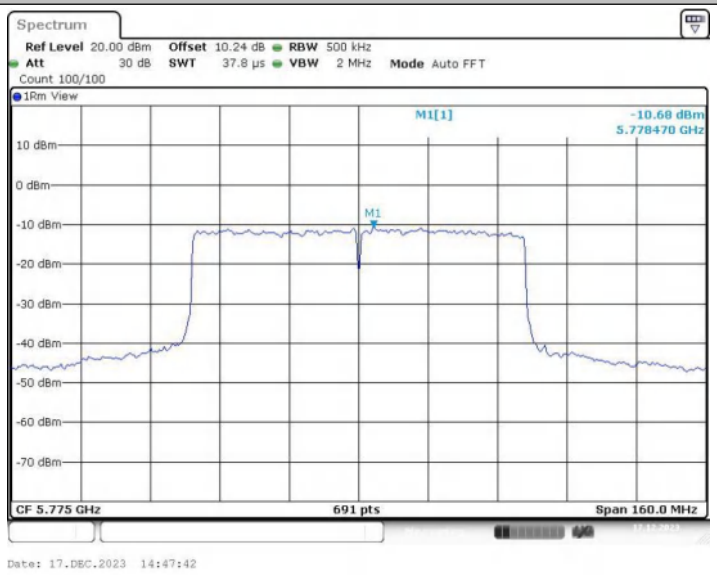
11AC80MIMO_Ant2_5210



11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775



Appendix E: Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Freq(MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-42500.00	-8.204633	20	PASS
			LV	NT	-50000.00	-9.652510	20	PASS
			HV	NT	-47500.00	-9.169884	20	PASS
	Ant2	5180	NV	NT	-45000.00	-8.687259	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-42500.00	-8.204633	20	PASS
	Ant1	5220	NV	NT	-52500.00	-10.057471	20	PASS
			LV	NT	-40000.00	-7.662835	20	PASS
			HV	NT	-45000.00	-8.620690	20	PASS
	Ant2	5220	NV	NT	-45000.00	-8.620690	20	PASS
			LV	NT	-35000.00	-6.704981	20	PASS
			HV	NT	-45000.00	-8.620690	20	PASS
	Ant1	5240	NV	NT	-45000.00	-8.587786	20	PASS
			LV	NT	-55000.00	-10.496183	20	PASS
			HV	NT	-72500.00	-13.835878	20	PASS
	Ant2	5240	NV	NT	-55000.00	-10.496183	20	PASS
			LV	NT	-52500.00	-10.019084	20	PASS
			HV	NT	-62500.00	-11.927481	20	PASS

Temperature								
TestMode	Antenna	Freq(MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	-30000.00	-5.791506	20	PASS
			NV	-20	-37500.00	-7.239382	20	PASS
			NV	-10	-50000.00	-9.652510	20	PASS
			NV	0	-30000.00	-5.791506	20	PASS
			NV	10	-35000.00	-6.756757	20	PASS
			NV	20	-37500.00	-7.239382	20	PASS
			NV	30	-55000.00	-10.617761	20	PASS
			NV	40	-47500.00	-9.169884	20	PASS
			NV	50	-47500.00	-9.169884	20	PASS
	Ant2	5180	NV	-30	-42500.00	-8.204633	20	PASS
			NV	-20	-37500.00	-7.239382	20	PASS

			NV	-10	-35000.00	-6.756757	20	PASS
			NV	0	-35000.00	-6.756757	20	PASS
			NV	10	-40000.00	-7.722008	20	PASS
			NV	20	-40000.00	-7.722008	20	PASS
			NV	30	-42500.00	-8.204633	20	PASS
			NV	40	-45000.00	-8.687259	20	PASS
			NV	50	-35000.00	-6.756757	20	PASS
	Ant1	5220	NV	-30	-52500.00	-10.057471	20	PASS
			NV	-20	-37500.00	-7.183908	20	PASS
			NV	-10	-40000.00	-7.662835	20	PASS
			NV	0	-50000.00	-9.578544	20	PASS
			NV	10	-40000.00	-7.662835	20	PASS
			NV	20	-42500.00	-8.141762	20	PASS
			NV	30	-32500.00	-6.226054	20	PASS
			NV	40	-42500.00	-8.141762	20	PASS
			NV	50	-27500.00	-5.268199	20	PASS
	Ant2	5220	NV	-30	-50000.00	-9.578544	20	PASS
			NV	-20	-32500.00	-6.226054	20	PASS
			NV	-10	-47500.00	-9.099617	20	PASS
			NV	0	-52500.00	-10.057471	20	PASS
			NV	10	-45000.00	-8.620690	20	PASS
			NV	20	-52500.00	-10.057471	20	PASS
			NV	30	-52500.00	-10.057471	20	PASS
			NV	40	-52500.00	-10.057471	20	PASS
			NV	50	-47500.00	-9.099617	20	PASS
	Ant1	5240	NV	-30	-45000.00	-8.587786	20	PASS
			NV	-20	-55000.00	-10.496183	20	PASS
			NV	-10	-47500.00	-9.064885	20	PASS
			NV	0	-45000.00	-8.587786	20	PASS
			NV	10	-60000.00	-11.450382	20	PASS
			NV	20	-50000.00	-9.541985	20	PASS
			NV	30	-62500.00	-11.927481	20	PASS
			NV	40	-47500.00	-9.064885	20	PASS
			NV	50	-62500.00	-11.927481	20	PASS
	Ant2	5240	NV	-30	-50000.00	-9.541985	20	PASS
			NV	-20	-42500.00	-8.110687	20	PASS
			NV	-10	-50000.00	-9.541985	20	PASS
			NV	0	-62500.00	-11.927481	20	PASS
			NV	10	-45000.00	-8.587786	20	PASS
			NV	20	-50000.00	-9.541985	20	PASS

			NV	30	-45000.00	-8.587786	20	PASS
			NV	40	-62500.00	-11.927481	20	PASS
			NV	50	-42500.00	-8.110687	20	PASS