

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

General Description of EUT	
Product Name:	Pilot X
Test Model:	Pilot X
Sample ID:	RW-C-202209-0243-1-2#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 7.6V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202211-0239-62	

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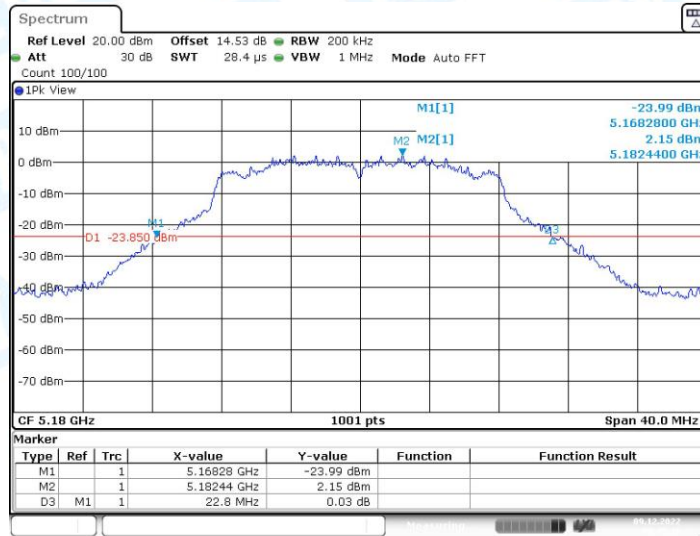
1. Emission Bandwidth

1.1. Test Result

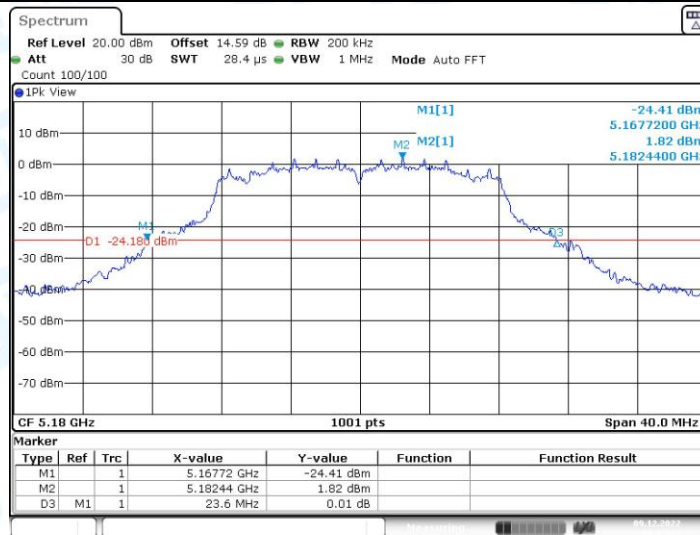
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant1	5180	22.80	5168.28	5191.08	---	---
	Ant2	5180	23.60	5167.72	5191.32	---	---
	Ant1	5200	23.32	5188.04	5211.36	---	---
	Ant2	5200	22.80	5188.52	5211.32	---	---
	Ant1	5240	23.64	5228.56	5252.20	---	---
	Ant2	5240	25.16	5227.36	5252.52	---	---
11N20MIMO	Ant1	5180	23.20	5168.32	5191.52	---	---
	Ant2	5180	23.96	5167.96	5191.92	---	---
	Ant1	5200	24.32	5187.92	5212.24	---	---
	Ant2	5200	23.00	5188.36	5211.36	---	---
	Ant1	5240	23.32	5228.32	5251.64	---	---
	Ant2	5240	24.20	5227.96	5252.16	---	---
11N40MIMO	Ant1	5190	43.28	5168.16	5211.44	---	---
	Ant2	5190	41.76	5168.96	5210.72	---	---
	Ant1	5230	42.64	5208.24	5250.88	---	---
	Ant2	5230	42.32	5208.64	5250.96	---	---
11AC20MIMO	Ant1	5180	24.40	5167.60	5192.00	---	---
	Ant2	5180	24.04	5167.92	5191.96	---	---
	Ant1	5200	23.28	5188.36	5211.64	---	---
	Ant2	5200	24.80	5187.68	5212.48	---	---
	Ant1	5240	24.04	5228.08	5252.12	---	---
	Ant2	5240	25.48	5227.08	5252.56	---	---
11AC40MIMO	Ant1	5190	42.64	5168.48	5211.12	---	---
	Ant2	5190	41.20	5169.84	5211.04	---	---
	Ant1	5230	43.20	5208.40	5251.60	---	---
	Ant2	5230	43.52	5208.08	5251.60	---	---
11AC80MIMO	Ant1	5210	81.92	5169.20	5251.12	---	---
	Ant2	5210	82.88	5168.88	5251.76	---	---

2.1. Test Graphs

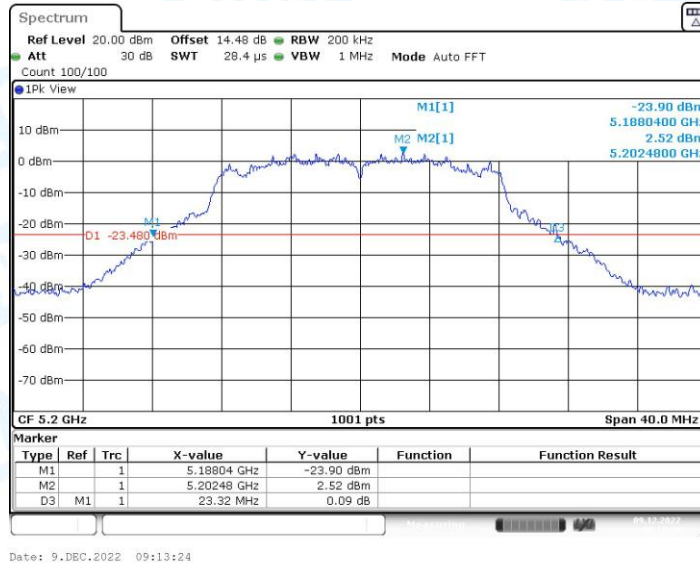
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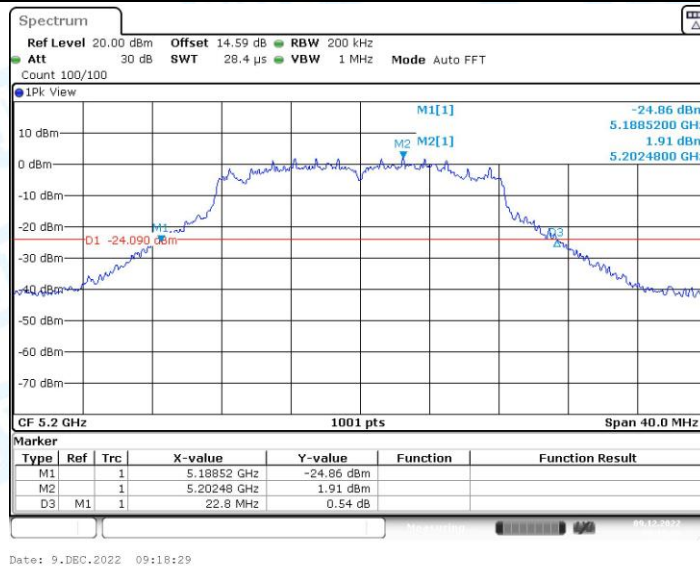
11A-CDD_Ant2_5180



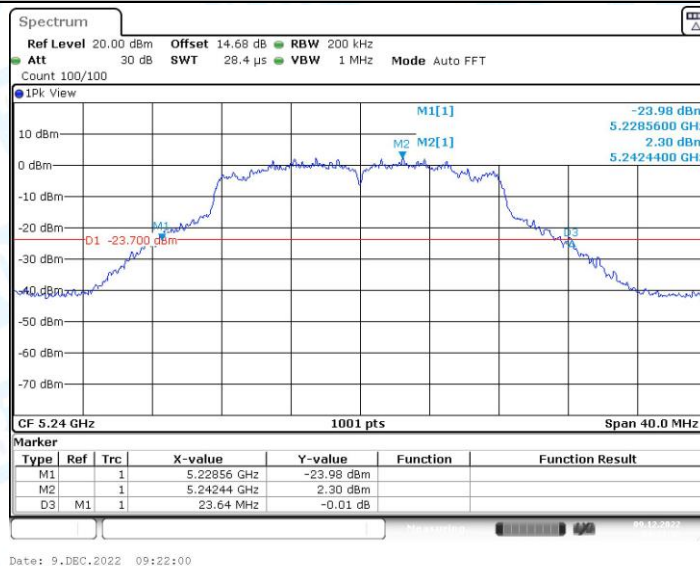
11A-CDD_Ant1_5200



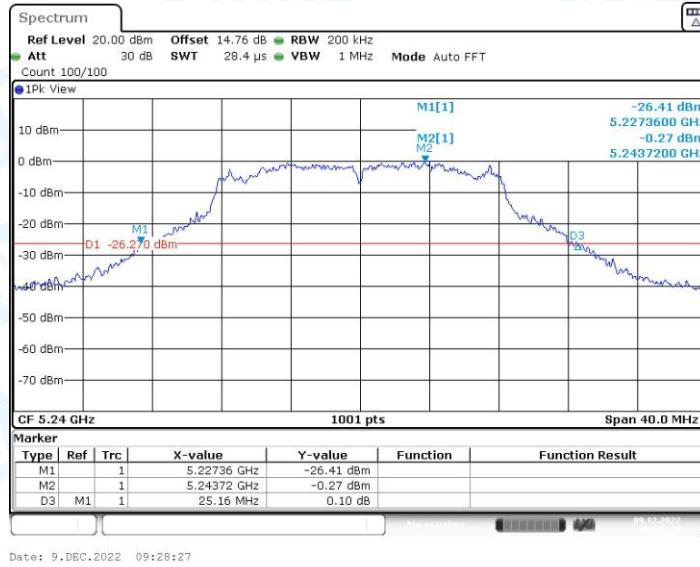
11A-CDD_Ant2_5200



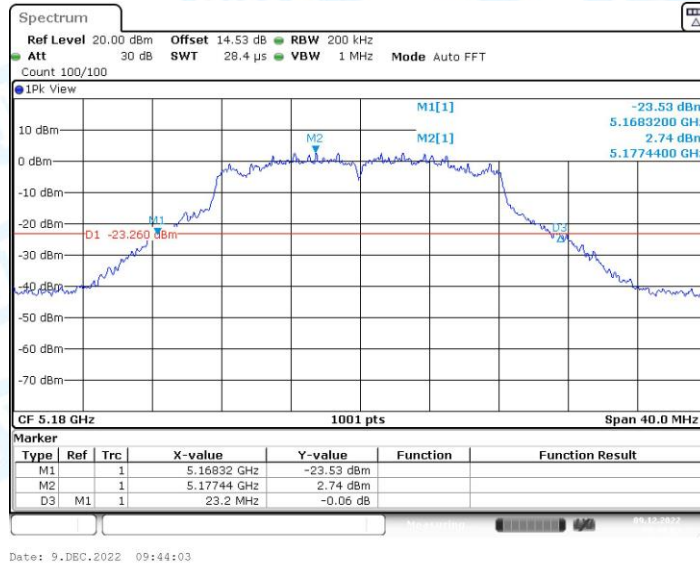
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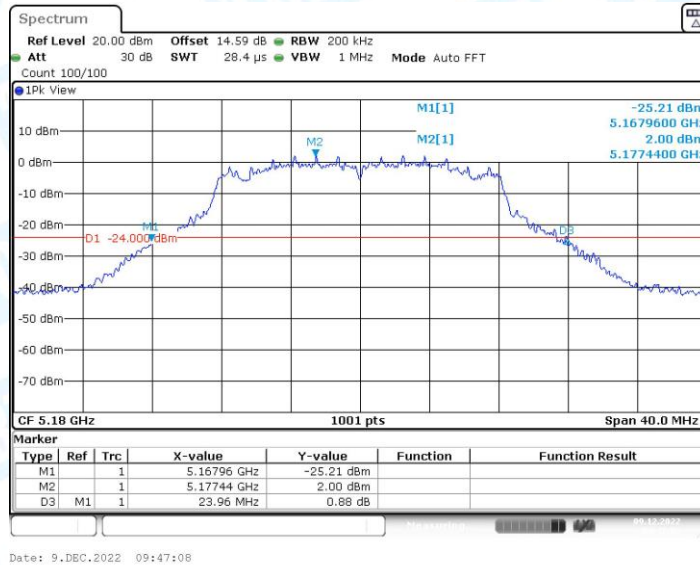
11A-CDD_Ant2_5240



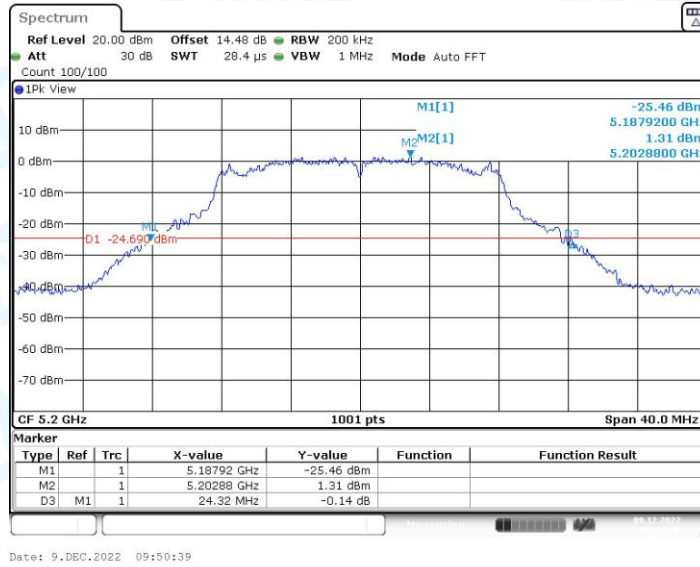
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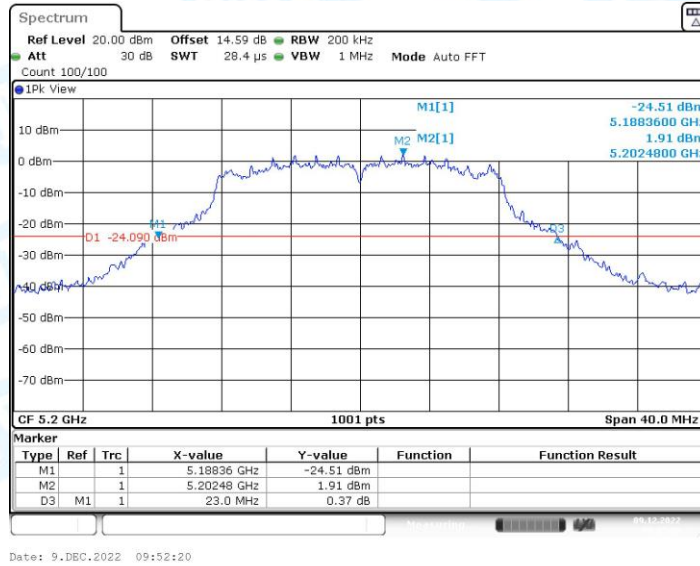
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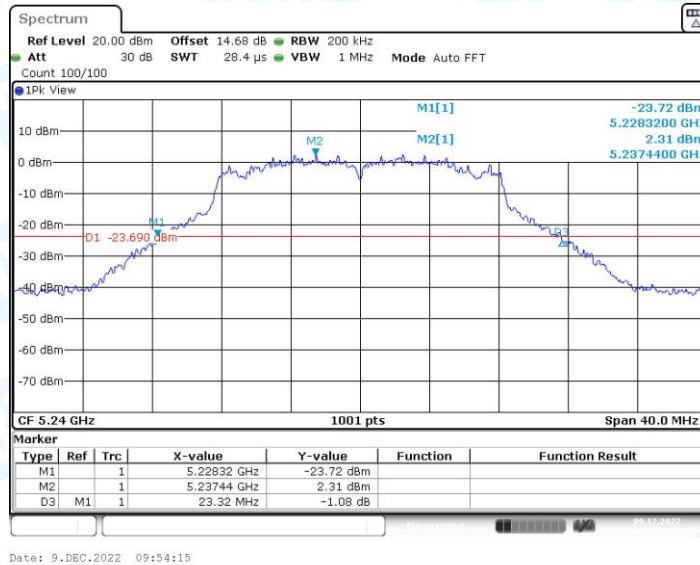
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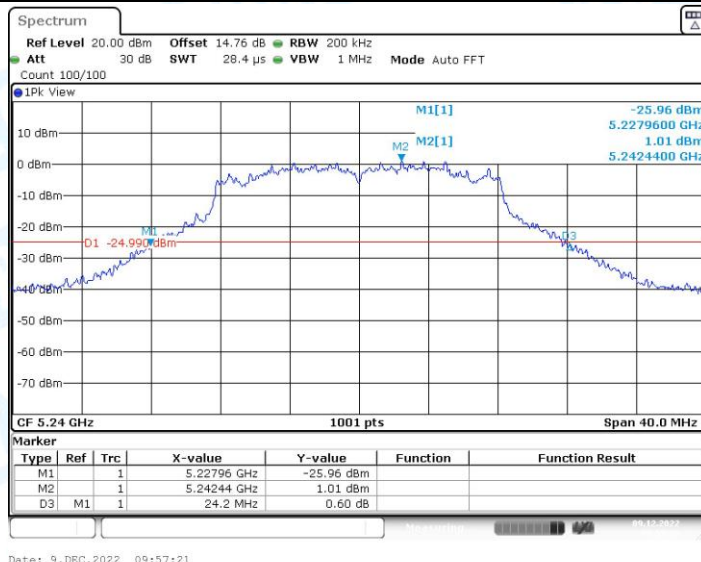
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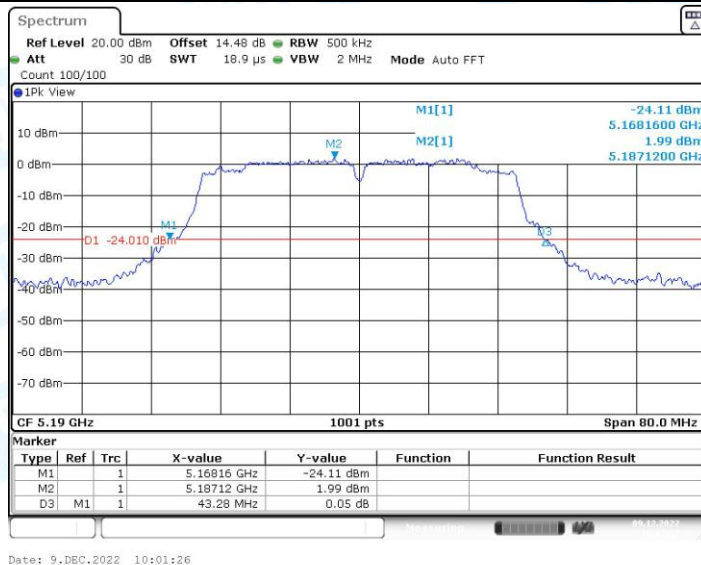
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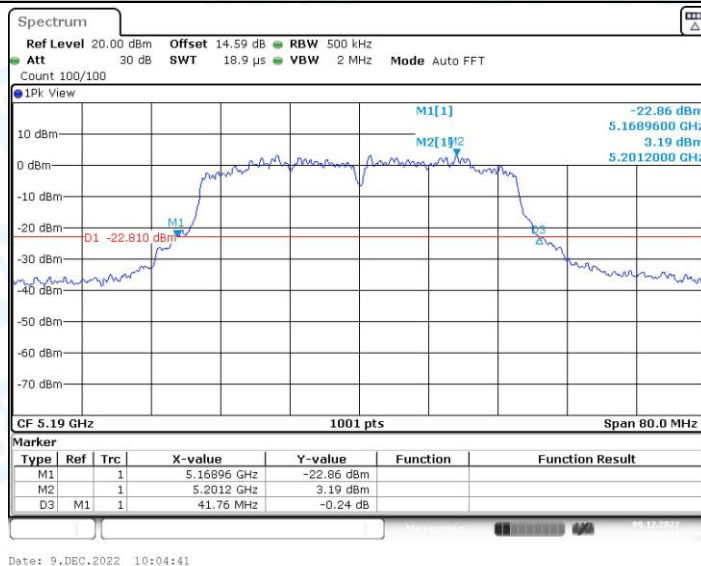
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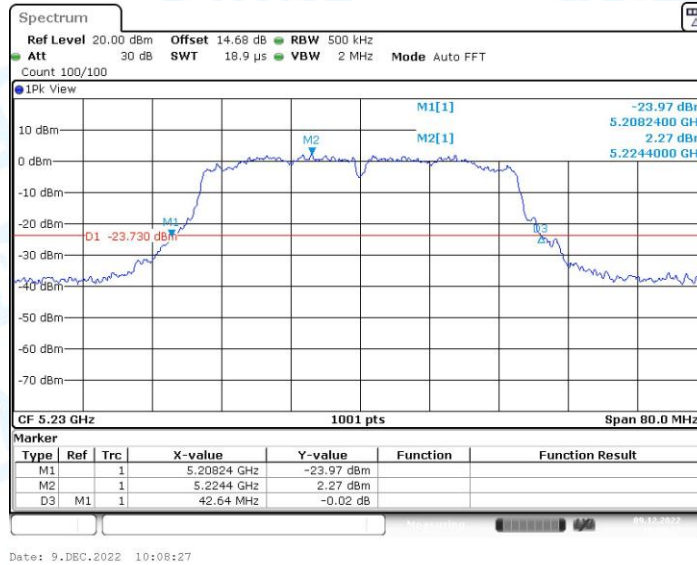
11N40MIMO_Ant1_5190



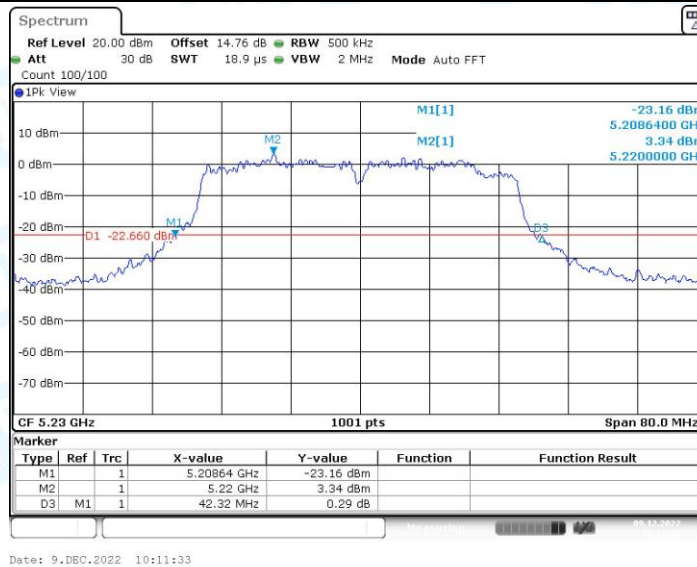
11N40MIMO_Ant2_5190



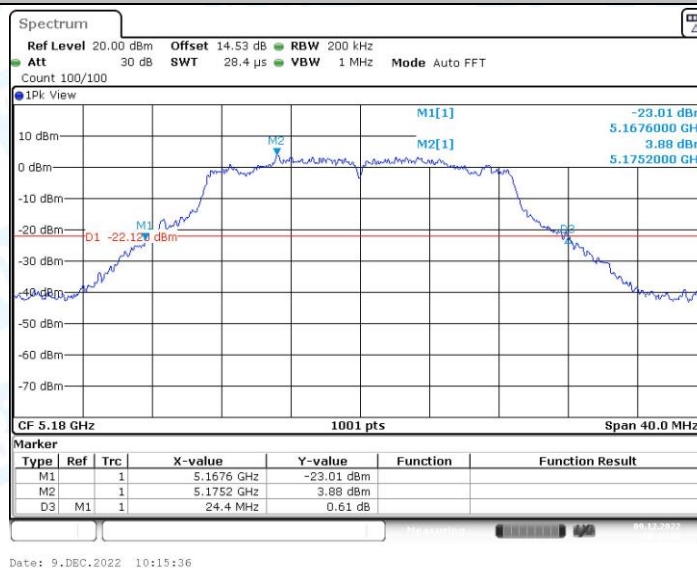
11N40MIMO_Ant1_5230



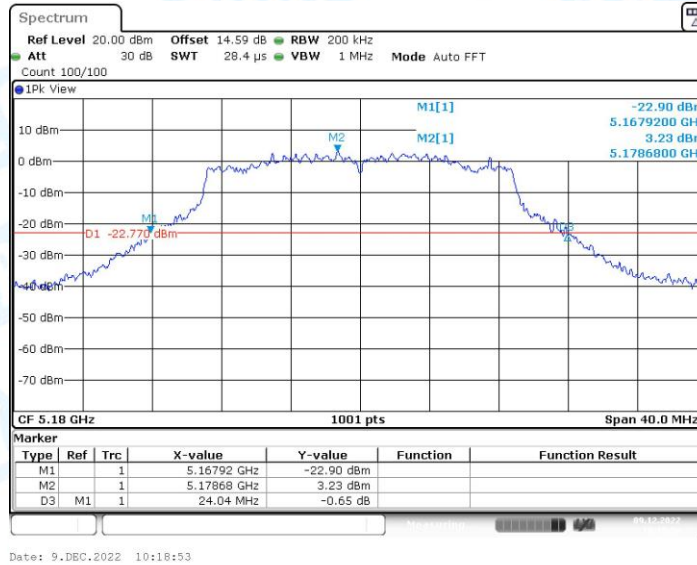
11N40MIMO_Ant2_5230



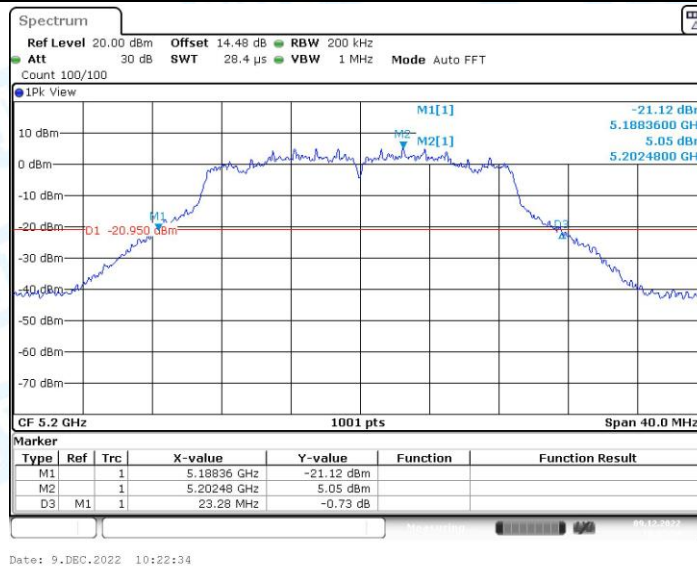
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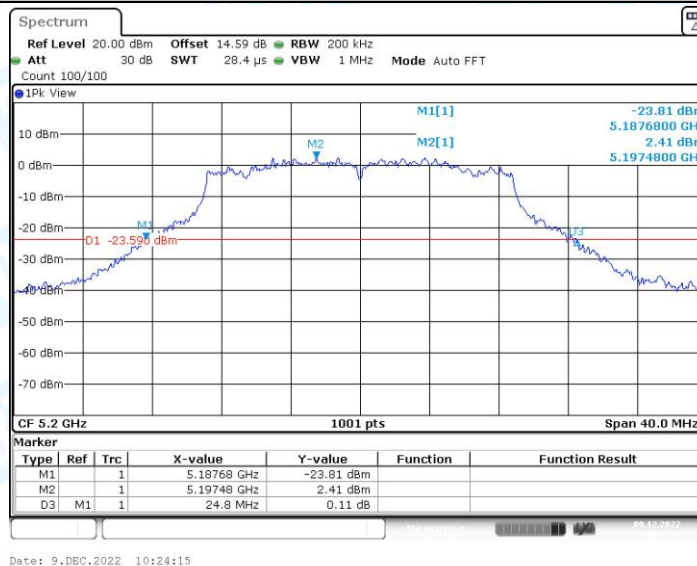
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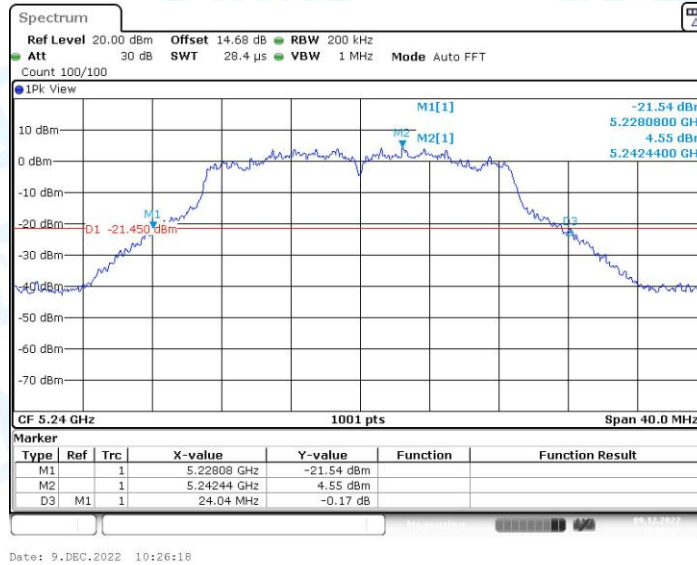
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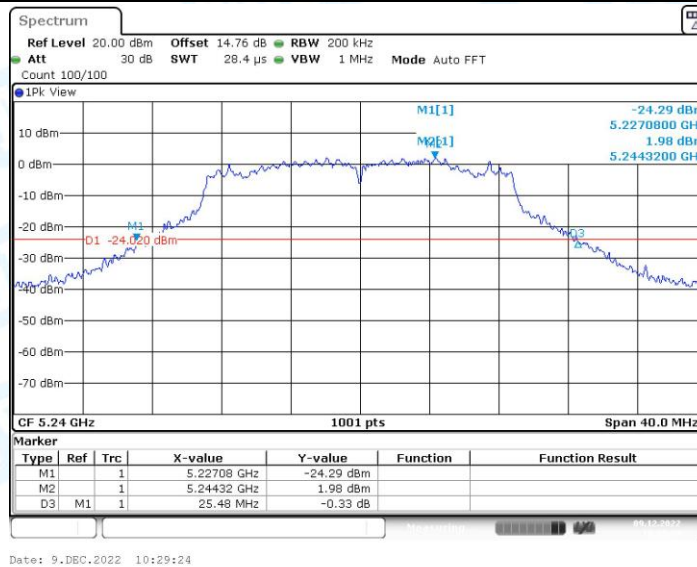
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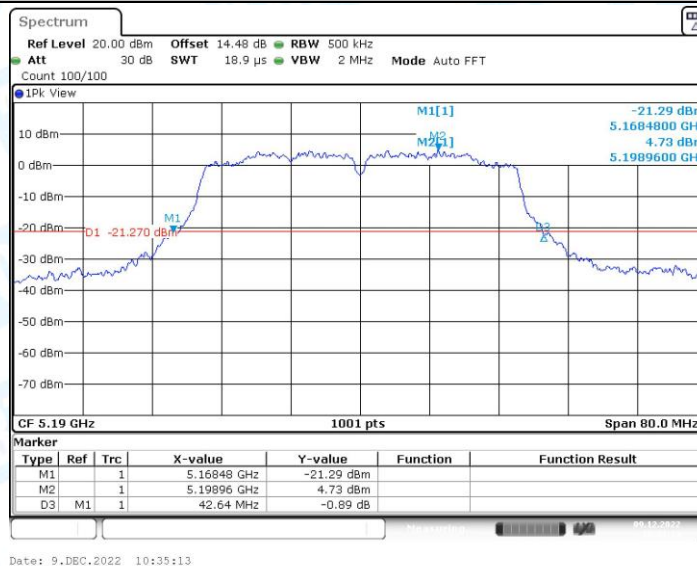
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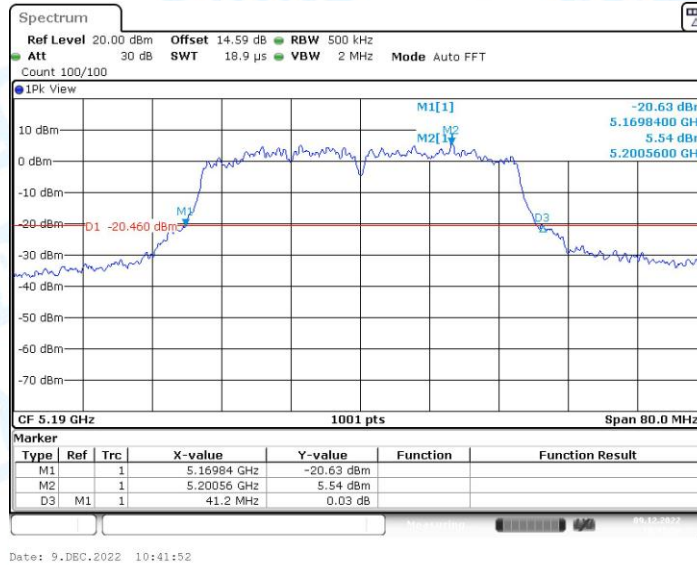
11AC20MIMO_Ant2_5240



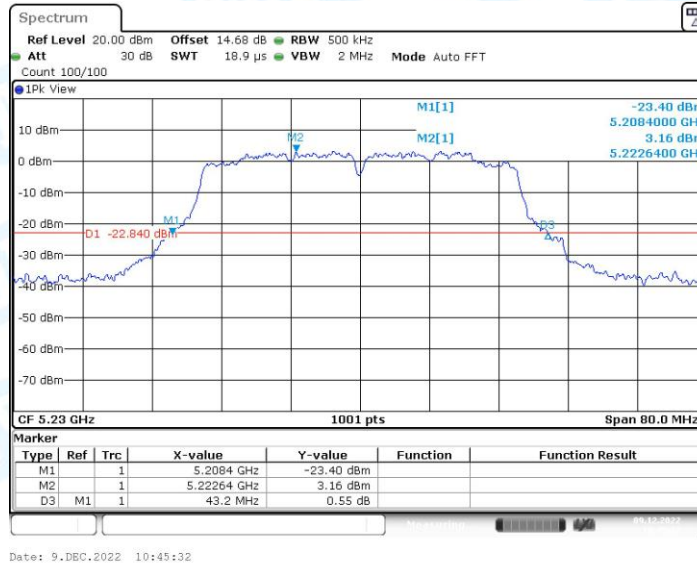
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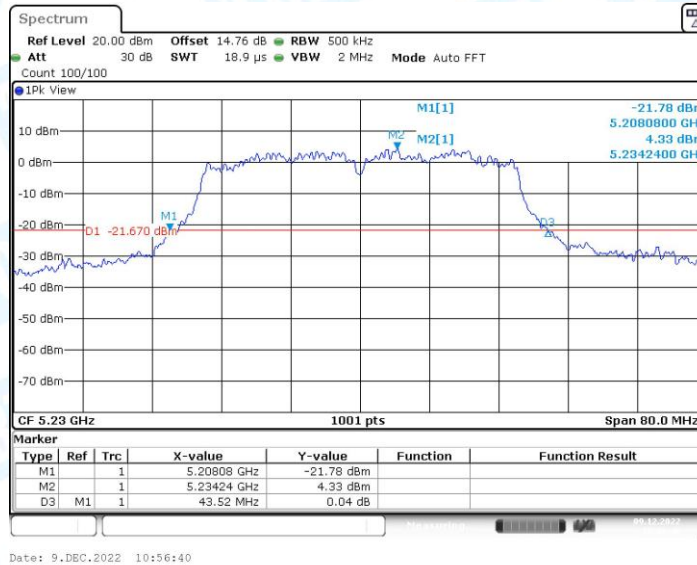
11AC40MIMO_Ant2_5190



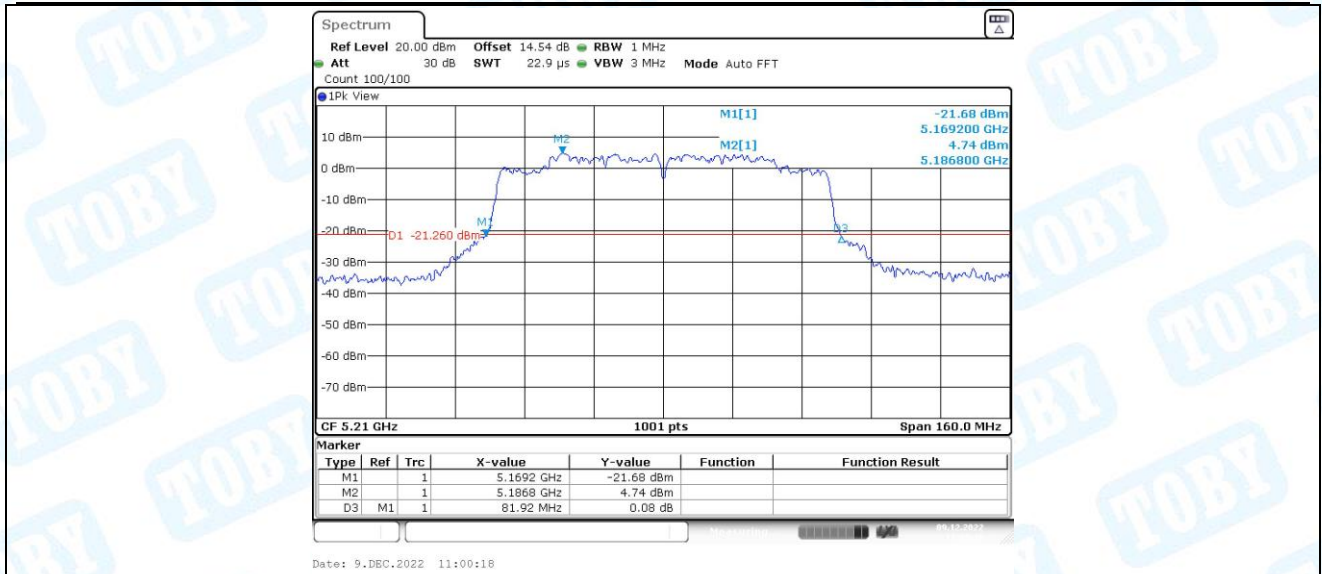
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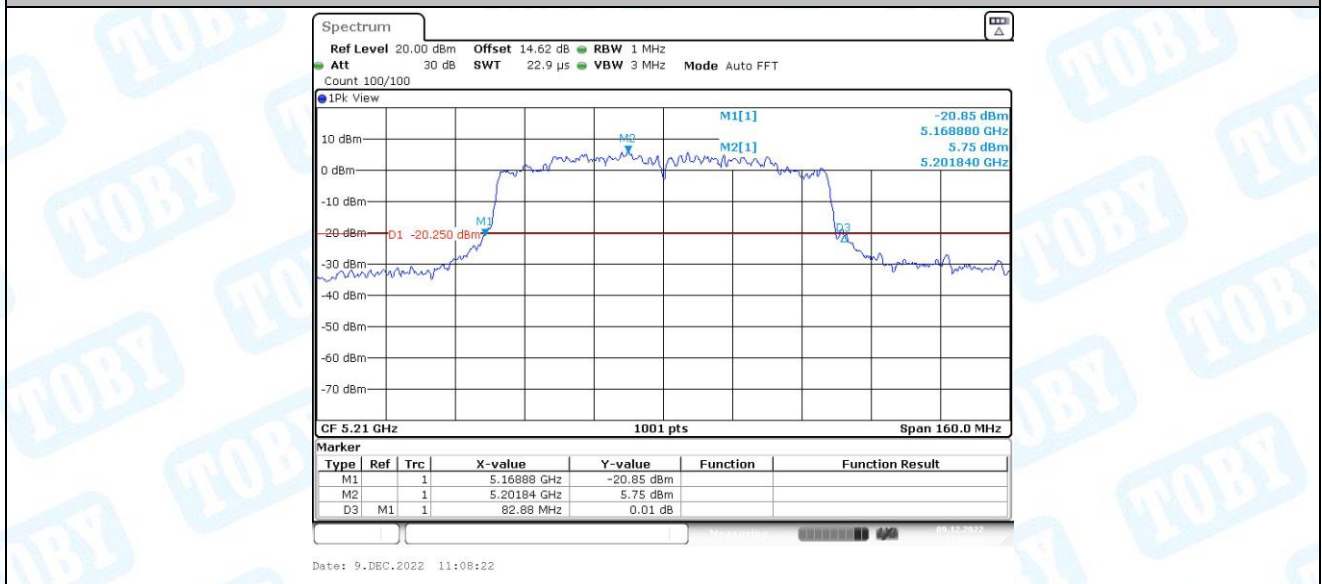
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



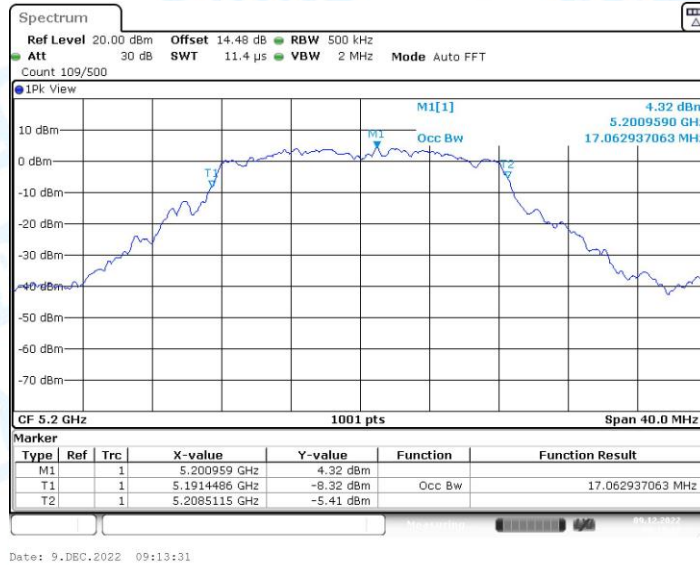
2. Occupied channel bandwidth

2.1. Test Result

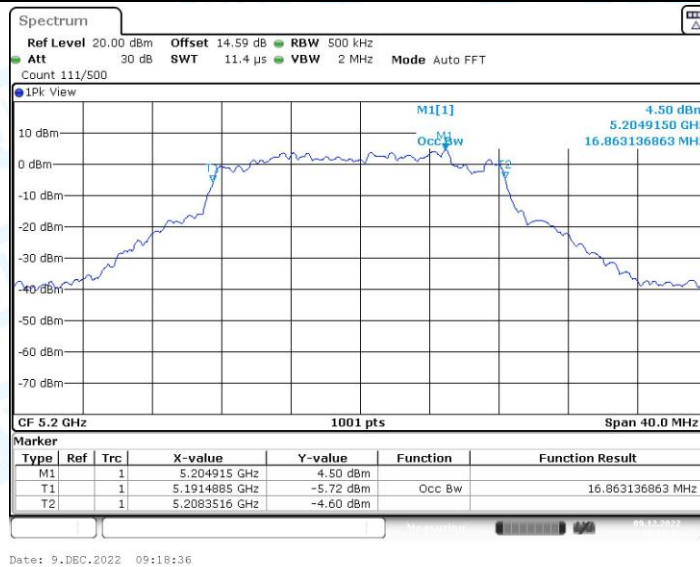
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant1	5180	17.023	5171.2887	5188.3117	---	---
	Ant2	5180	16.983	5171.4486	5188.4316	---	---
	Ant1	5200	17.063	5191.4486	5208.5115	---	---
	Ant2	5200	16.863	5191.4885	5208.3516	---	---
	Ant1	5240	17.103	5231.4486	5248.5514	---	---
	Ant2	5240	17.383	5231.4086	5248.7912	---	---
11N20MIMO	Ant1	5180	16.903	5171.5285	5188.4316	---	---
	Ant2	5180	16.623	5171.6484	5188.2717	---	---
	Ant1	5200	16.983	5191.3686	5208.3516	---	---
	Ant2	5200	16.823	5191.4486	5208.2717	---	---
	Ant1	5240	16.703	5231.6084	5248.3117	---	---
	Ant2	5240	16.943	5231.5285	5248.4715	---	---
11N40MIMO	Ant1	5190	36.284	5171.6983	5207.9820	---	---
	Ant2	5190	36.124	5171.8581	5207.9820	---	---
	Ant1	5230	36.124	5211.8581	5247.9820	---	---
	Ant2	5230	36.603	5211.6983	5248.3017	---	---
11AC20MIMO	Ant1	5180	18.142	5170.9291	5189.0709	---	---
	Ant2	5180	17.862	5171.0490	5188.9111	---	---
	Ant1	5200	17.942	5191.0490	5208.9910	---	---
	Ant2	5200	18.062	5190.9690	5209.0310	---	---
	Ant1	5240	17.942	5231.0090	5248.9510	---	---
	Ant2	5240	17.862	5231.0490	5248.9111	---	---
11AC40MIMO	Ant1	5190	36.204	5171.7782	5207.9820	---	---
	Ant2	5190	36.044	5172.0180	5208.0619	---	---
	Ant1	5230	36.284	5211.8581	5248.1419	---	---
	Ant2	5230	36.364	5211.7782	5248.1419	---	---
11AC80MIMO	Ant1	5210	75.445	5172.2777	5247.7223	---	---
	Ant2	5210	75.125	5172.4376	5247.5624	---	---

2.2. Test Graphs





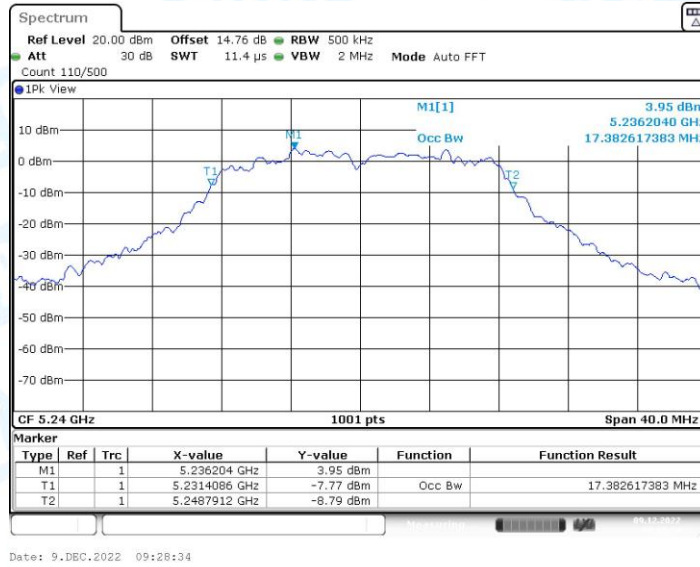
11A-CDD_Ant2_5200



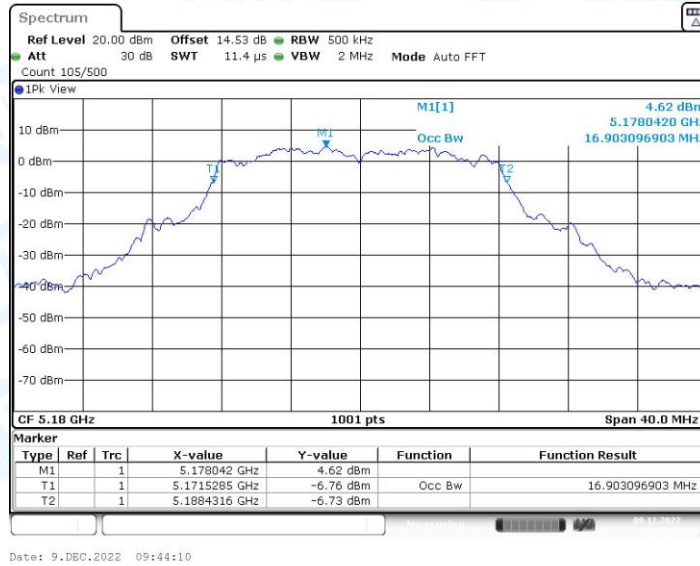
11A-CDD_Ant1_5240



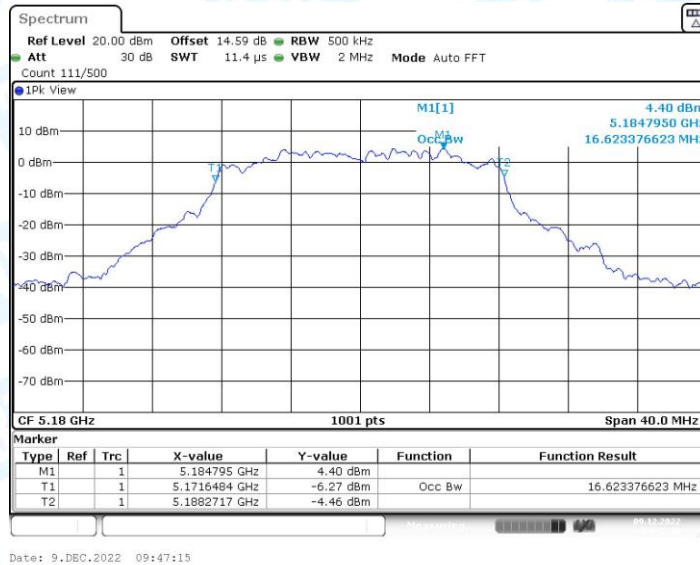
11A-CDD_Ant2_5240



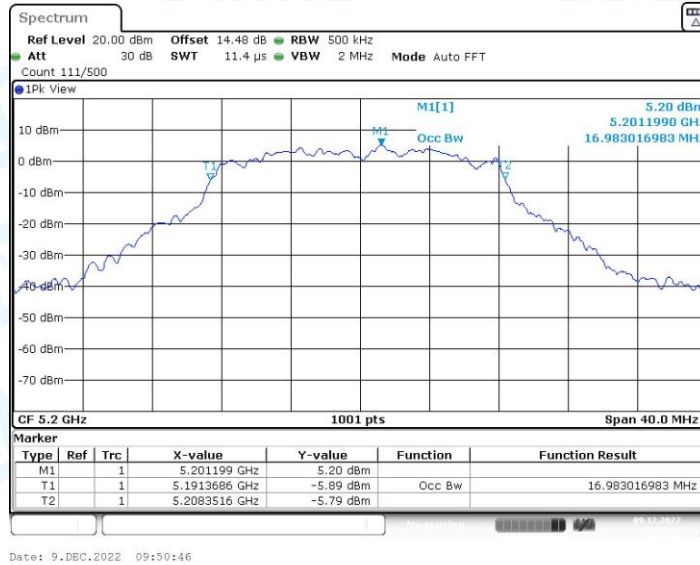
11N20MIMO_Ant1_5180



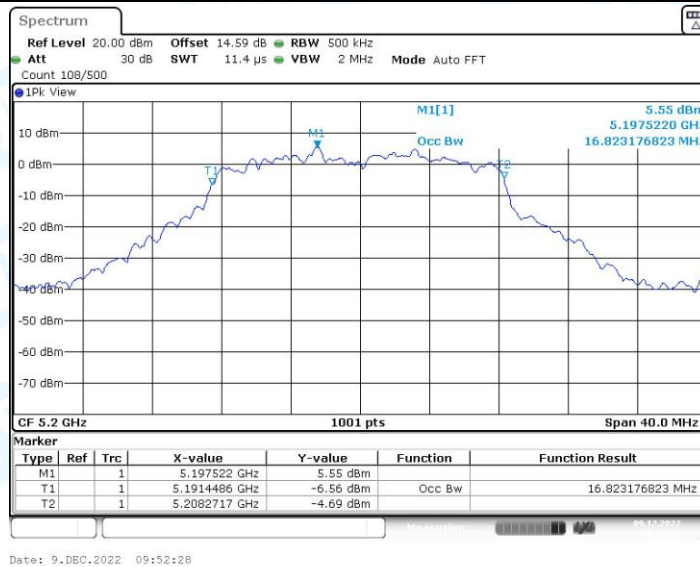
11N20MIMO_Ant2_5180



11N20MIMO_Ant1_5200



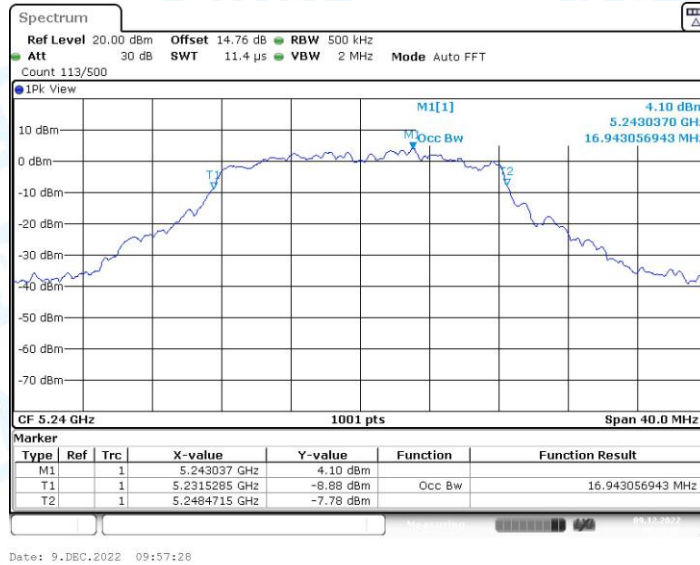
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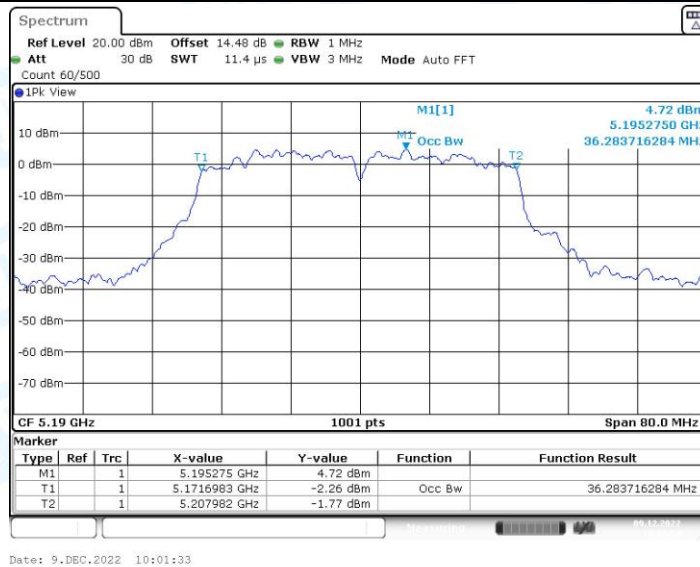
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11N20MIMO_Ant2_5240



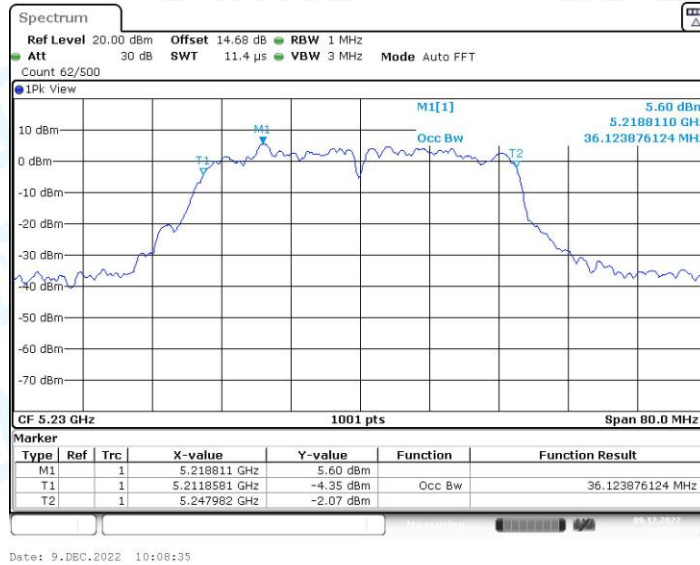
11N40MIMO_Ant1_5190



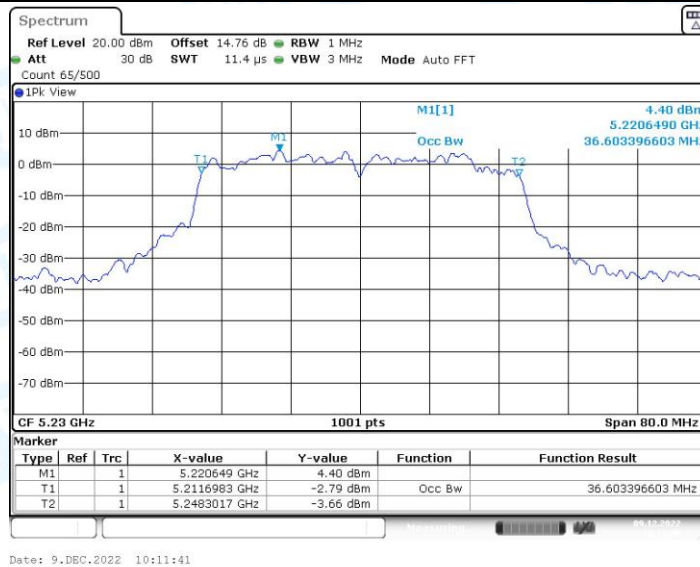
11N40MIMO_Ant2_5190



11N40MIMO_Ant1_5230



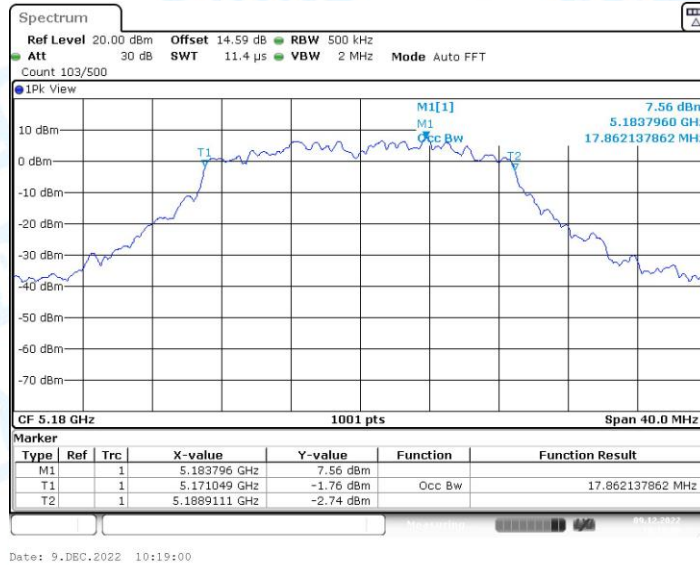
11N40MIMO_Ant2_5230



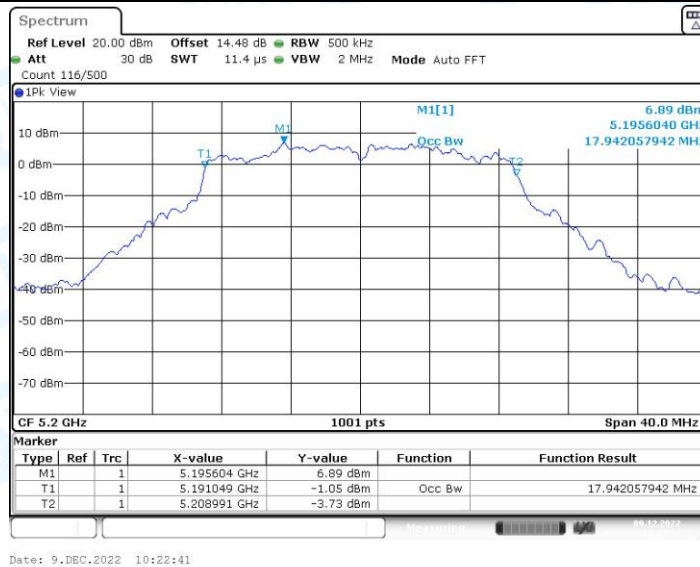
11AC20MIMO_Ant1_5180



11AC20MIMO_Ant2_5180



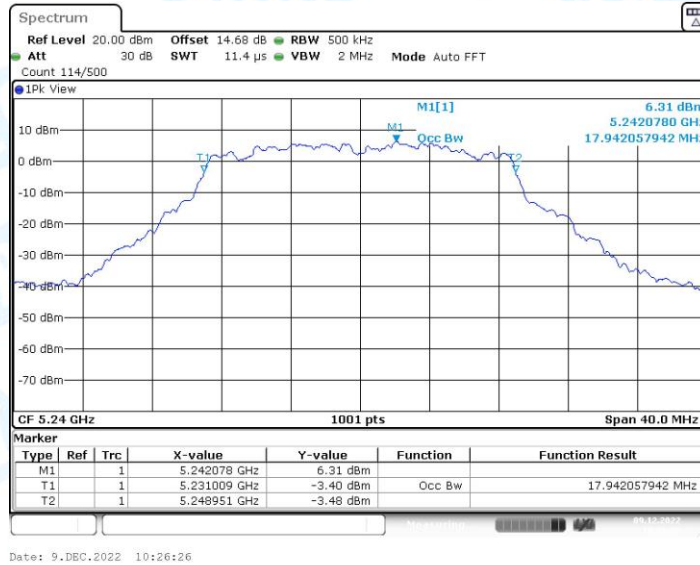
11AC20MIMO_Ant1_5200



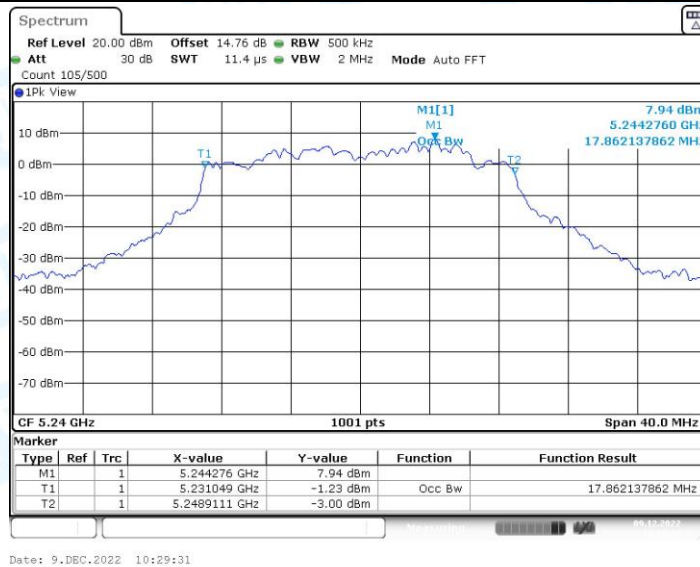
11AC20MIMO_Ant2_5200



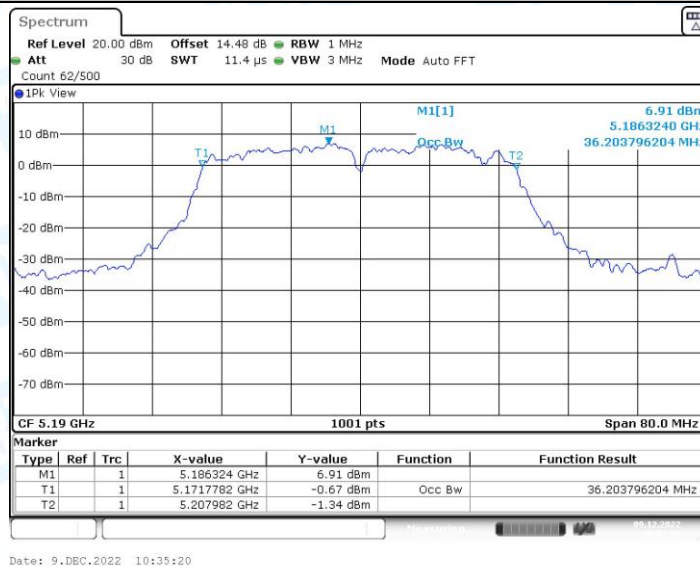
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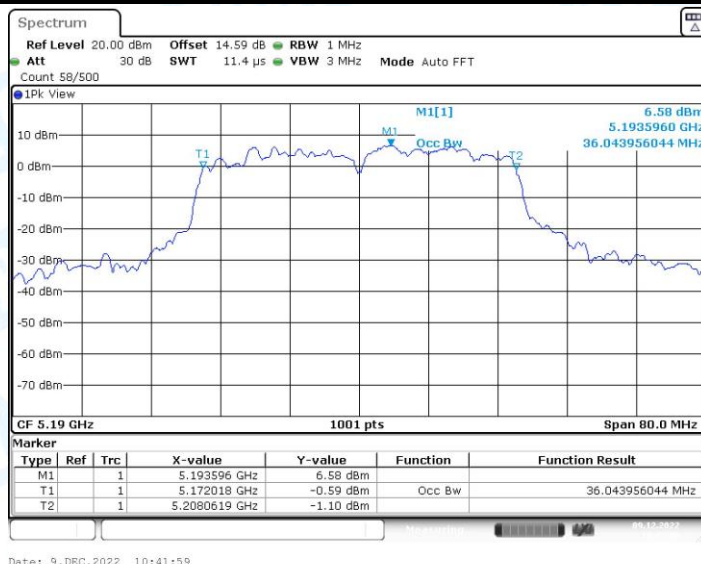
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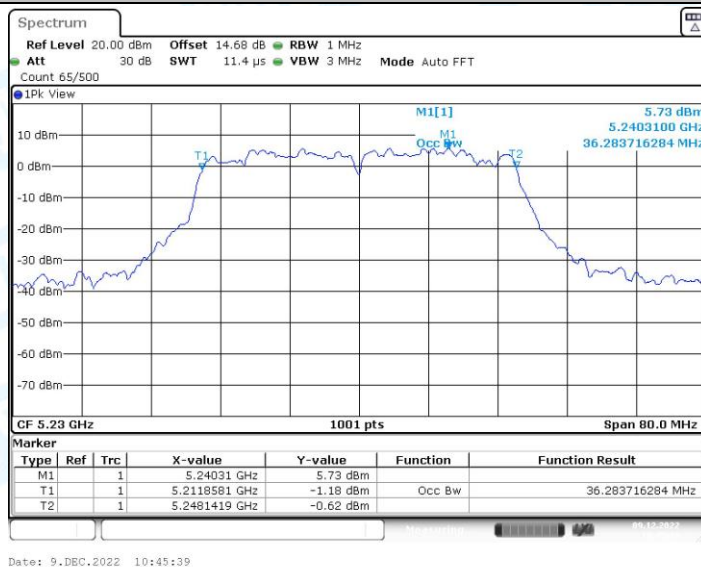
11AC40MIMO_Ant1_5190



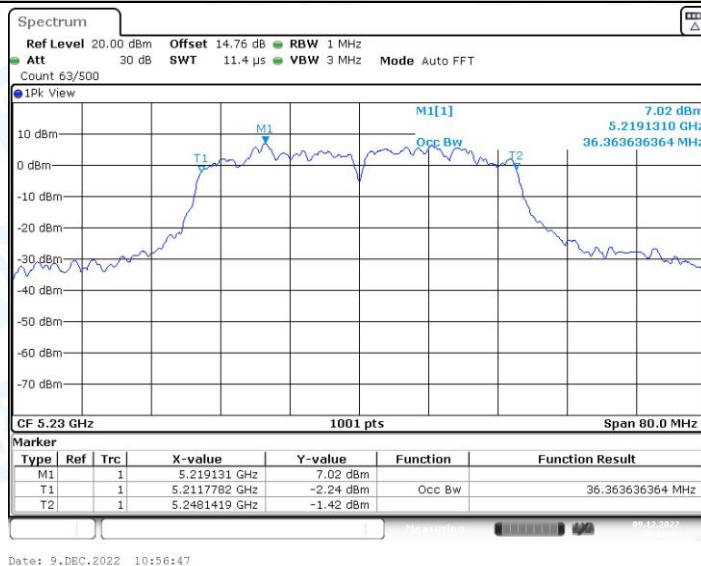
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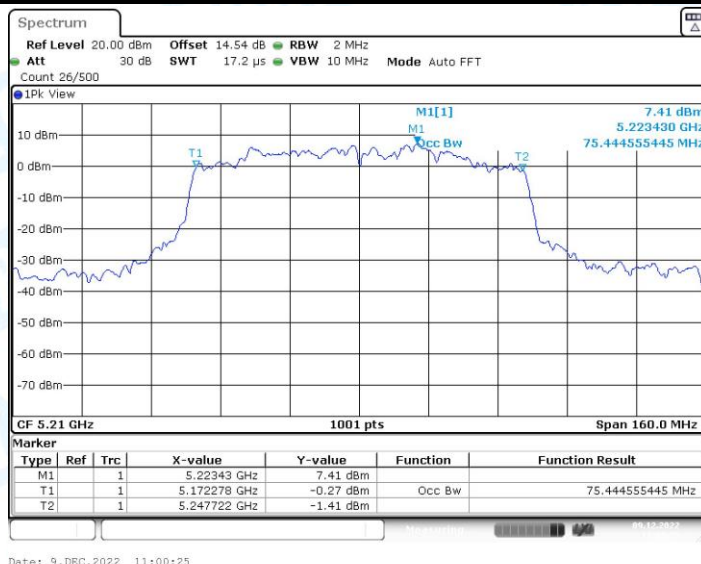
11AC40MIMO_Ant1_5230



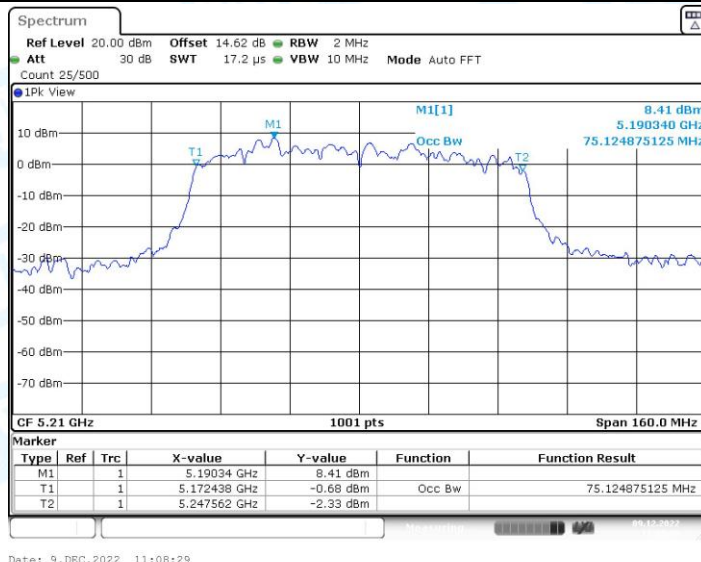
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



4. Maximum conducted output power

4.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A-CDD	Ant1	5180	4.87	≤23.98	PASS
	Ant2	5180	3.88	≤23.98	PASS
	total	5180	7.41	≤23.97	PASS
	Ant1	5200	4.90	≤23.98	PASS
	Ant2	5200	3.87	≤23.98	PASS
	total	5200	7.43	≤23.97	PASS
	Ant1	5240	4.70	≤23.98	PASS
	Ant2	5240	3.68	≤23.98	PASS
	total	5240	7.23	≤23.97	PASS
11N20MIMO	Ant1	5180	4.87	≤23.98	PASS
	Ant2	5180	3.66	≤23.98	PASS
	total	5180	7.32	≤23.97	PASS
	Ant1	5200	4.72	≤23.98	PASS
	Ant2	5200	3.81	≤23.98	PASS
	total	5200	7.30	≤23.97	PASS
	Ant1	5240	4.56	≤23.98	PASS
	Ant2	5240	3.78	≤23.98	PASS
	total	5240	7.20	≤23.97	PASS
11N40MIMO	Ant1	5190	5.51	≤23.98	PASS
	Ant2	5190	4.56	≤23.98	PASS
	total	5190	8.07	≤23.97	PASS
	Ant1	5230	5.34	≤23.98	PASS
	Ant2	5230	4.47	≤23.98	PASS
	total	5230	7.94	≤23.97	PASS
11AC20MIMO	Ant1	5180	4.86	≤23.98	PASS
	Ant2	5180	3.70	≤23.98	PASS
	total	5180	7.33	≤23.97	PASS
	Ant1	5200	4.80	≤23.98	PASS
	Ant2	5200	3.78	≤23.98	PASS
	total	5200	7.33	≤23.97	PASS
	Ant1	5240	4.58	≤23.98	PASS
	Ant2	5240	3.67	≤23.98	PASS
	total	5240	7.16	≤23.97	PASS
11AC40MIMO	Ant1	5190	5.61	≤23.98	PASS
	Ant2	5190	4.44	≤23.98	PASS
	total	5190	8.07	≤23.97	PASS
	Ant1	5230	5.42	≤23.98	PASS
	Ant2	5230	4.55	≤23.98	PASS
	total	5230	8.02	≤23.97	PASS
11AC80MIMO	Ant1	5210	5.49	≤23.98	PASS

	Ant2	5210	4.60	≤23.98	PASS
	total	5210	8.08	≤23.97	PASS

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

5. Maximum power spectral density

5.1. Test Result

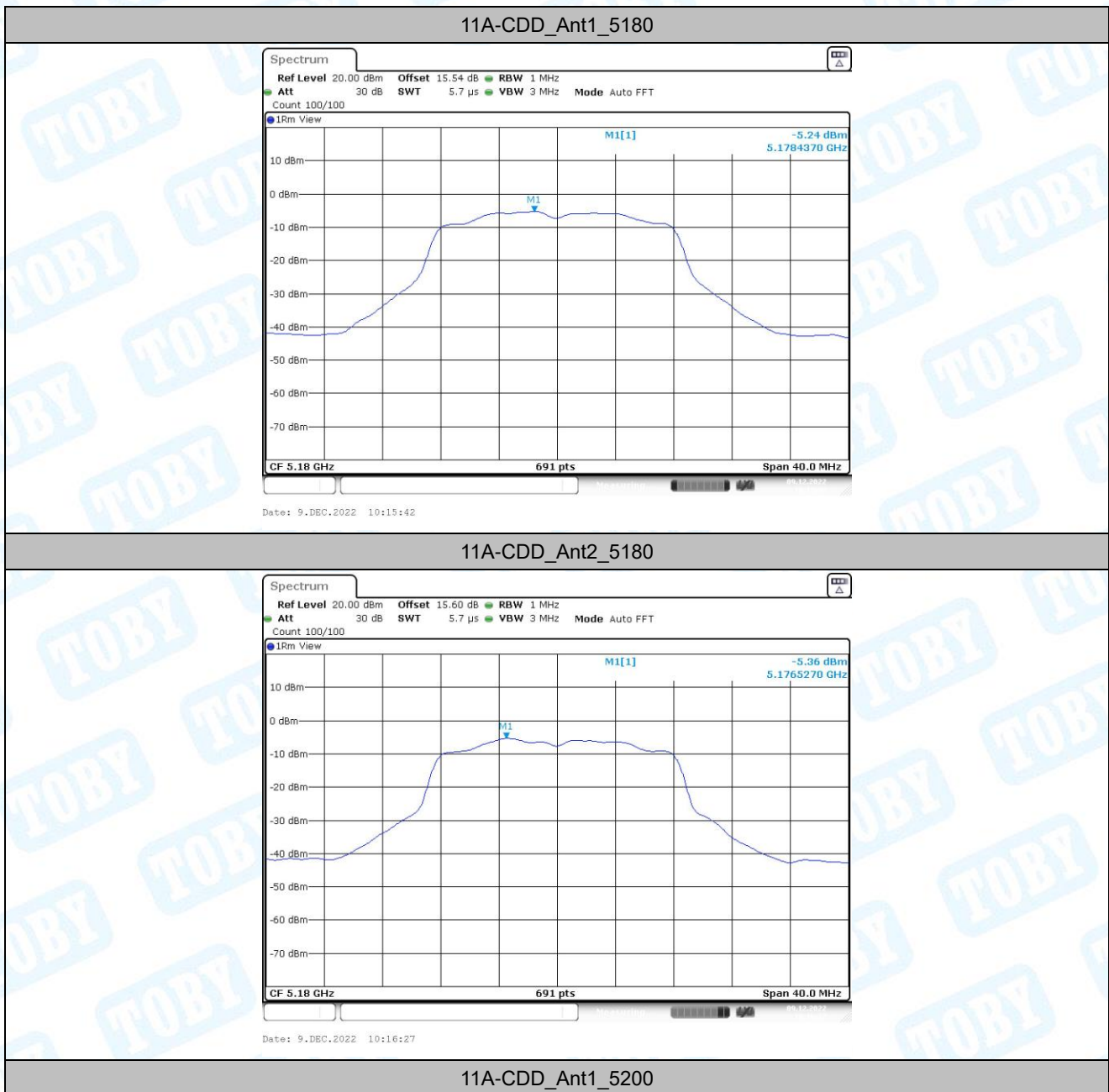
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A-CDD	Ant1	5180	-5.24	≤11.00	PASS
	Ant2	5180	-5.36	≤11.00	PASS
	total	5180	-2.29	≤10.99	PASS
	Ant1	5200	-5.66	≤11.00	PASS
	Ant2	5200	-5.6	≤11.00	PASS
	total	5200	-2.62	≤10.99	PASS
	Ant1	5240	-5.89	≤11.00	PASS
	Ant2	5240	-6.24	≤11.00	PASS
	total	5240	-3.05	≤10.99	PASS
11N20MIMO	Ant1	5180	-5.77	≤11.00	PASS
	Ant2	5180	-6.02	≤11.00	PASS
	total	5180	-2.88	≤10.99	PASS
	Ant1	5200	-5.97	≤11.00	PASS
	Ant2	5200	-5.64	≤11.00	PASS
	total	5200	-2.79	≤10.99	PASS
	Ant1	5240	-6.15	≤11.00	PASS
	Ant2	5240	-6.79	≤11.00	PASS
	total	5240	-3.45	≤10.99	PASS
11N40MIMO	Ant1	5190	-8.59	≤11.00	PASS
	Ant2	5190	-8.43	≤11.00	PASS
	total	5190	-5.50	≤10.99	PASS
	Ant1	5230	-8.15	≤11.00	PASS
	Ant2	5230	-9.08	≤11.00	PASS
	total	5230	-5.58	≤10.99	PASS
11AC20MIMO	Ant1	5180	-5.63	≤11.00	PASS
	Ant2	5180	-6.31	≤11.00	PASS
	total	5180	-2.95	≤10.99	PASS
	Ant1	5200	-5.75	≤11.00	PASS
	Ant2	5200	-6.22	≤11.00	PASS
	total	5200	-2.97	≤10.99	PASS
	Ant1	5240	-6.46	≤11.00	PASS
	Ant2	5240	-7.04	≤11.00	PASS
	total	5240	-3.73	≤10.99	PASS
11AC40MIMO	Ant1	5190	-8.41	≤11.00	PASS
	Ant2	5190	-8.39	≤11.00	PASS
	total	5190	-5.39	≤10.99	PASS
	Ant1	5230	-8.75	≤11.00	PASS
	Ant2	5230	-8.89	≤11.00	PASS
	total	5230	-5.81	≤10.99	PASS
11AC80MIMO	Ant1	5210	-11.4	≤11.00	PASS

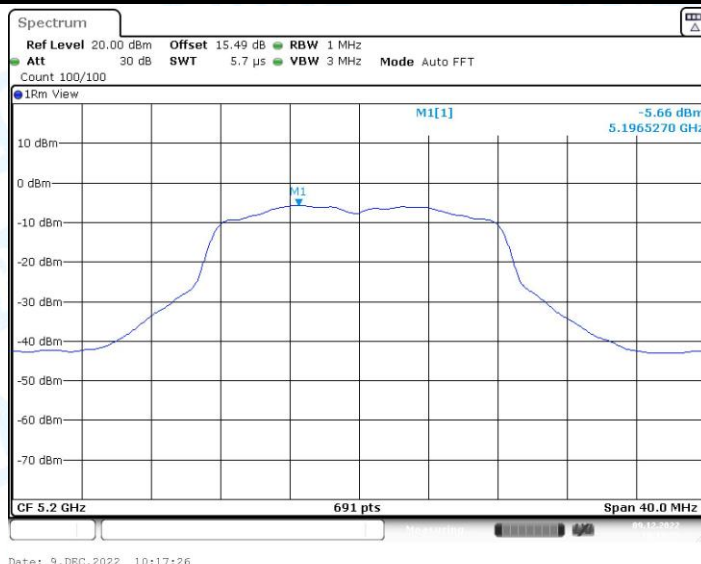
	Ant2	5210	-11.34	≤11.00	PASS
	total	5210	-8.36	≤10.99	PASS

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

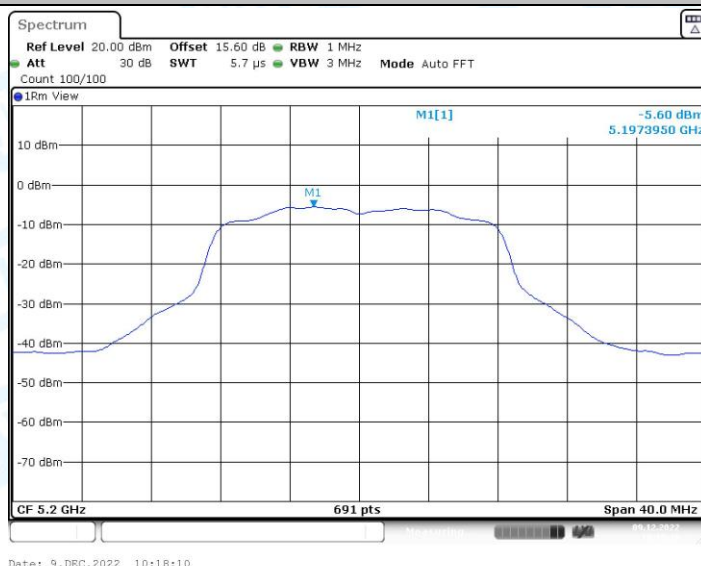
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

5.2. Test Graphs

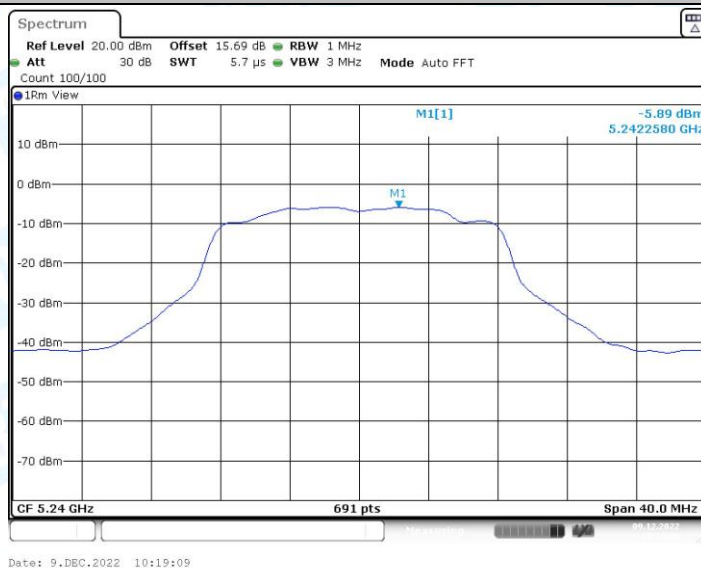




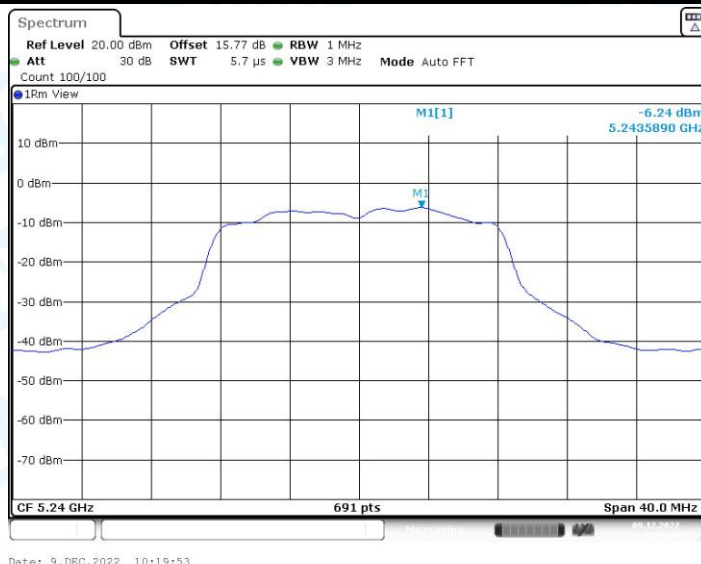
11A-CDD_Ant2_5200



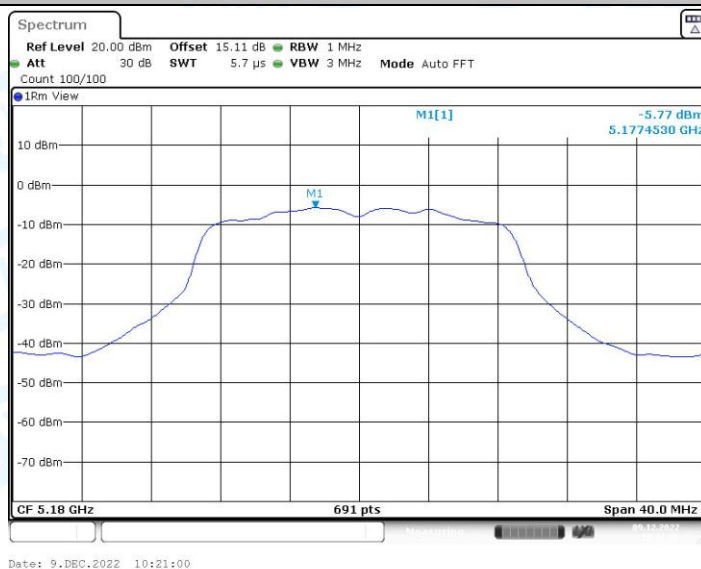
11A-CDD_Ant1_5240



11A-CDD_Ant2_5240



11N20MIMO_Ant1_5180



11N20MIMO_Ant2_5180



11N20MIMO_Ant1_5200



11N20MIMO_Ant2_5200



11N20MIMO_Ant1_5240



11N20MIMO_Ant2_5240