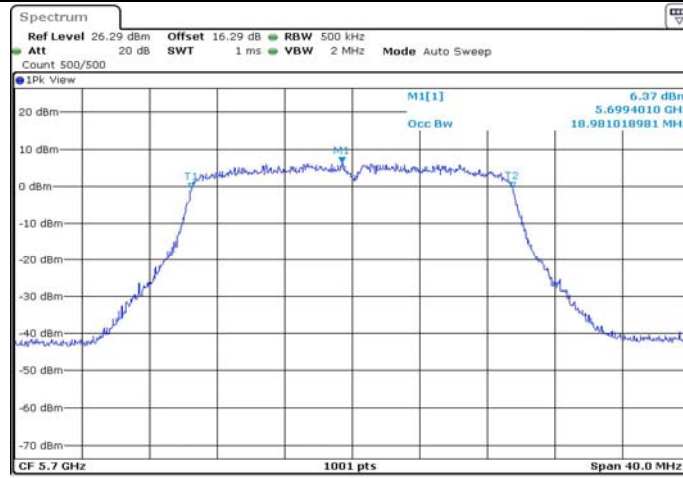
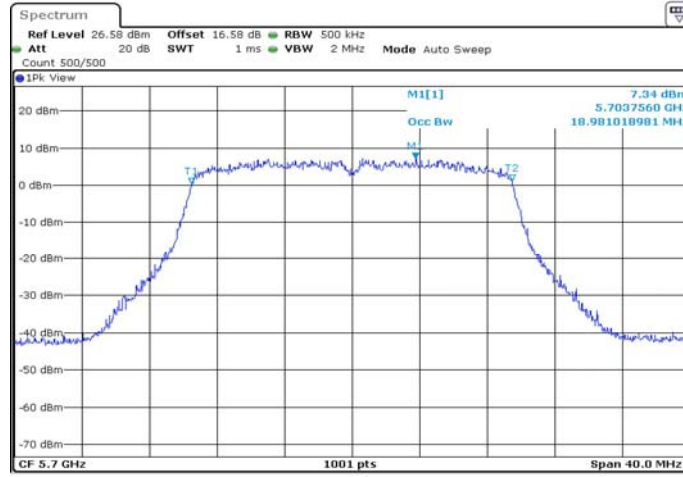


11AX20MIMO Ant1 5700



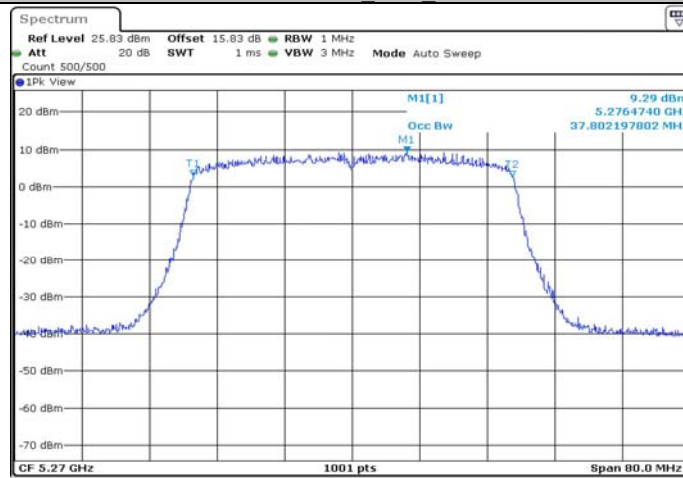
Date: 11, JAN, 2021 10:19:44

11AX20MIMO Ant2 5700



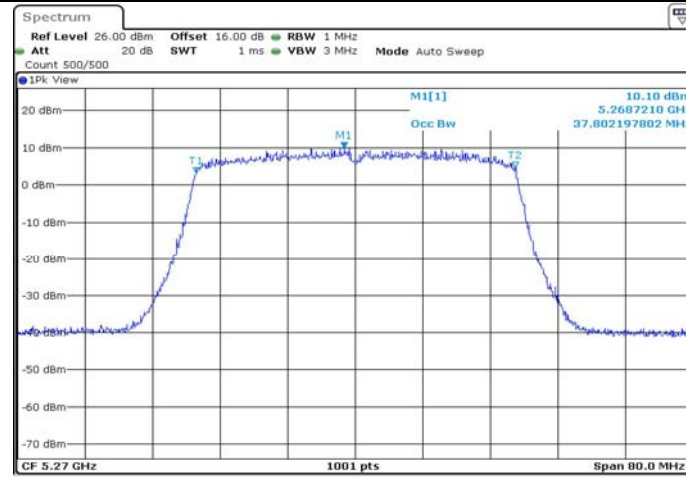
Date: 11, JAN, 2021 10:20:51

11AX40MIMO Ant1 5270



Date: 11, JAN, 2021 13:04:37

11AX40MIMO Ant2 5270



Date: 11, JAN, 2021 13:19:50

11AX40MIMO Ant1 5310



Date: 11, JAN, 2021 13:25:18

11AX40MIMO Ant2 5310



Date: 11, JAN, 2021 13:26:08

11AX40MIMO Ant1 5510



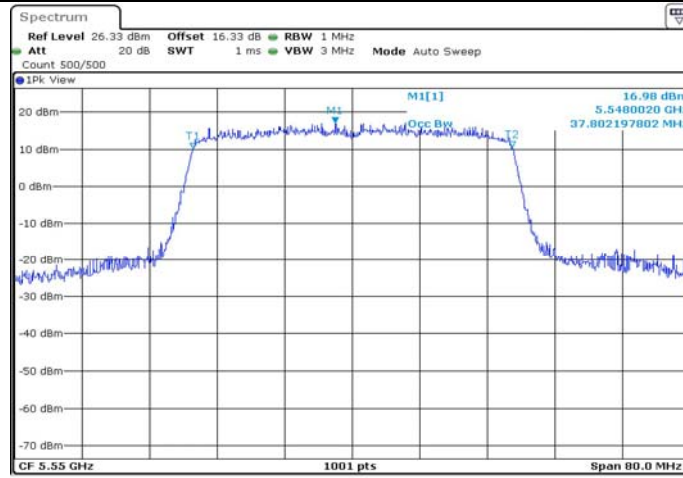
11AX40MIMO Ant2 5510



11AX40MIMO Ant1 5550



11AX40MIMO Ant2 5550



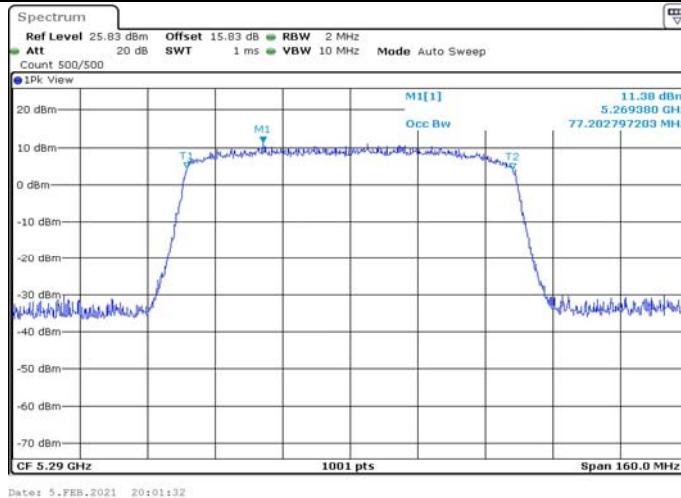
11AX40MIMO Ant1 5670



11AX40MIMO Ant2 5670



11AX80MIMO Ant1 5290



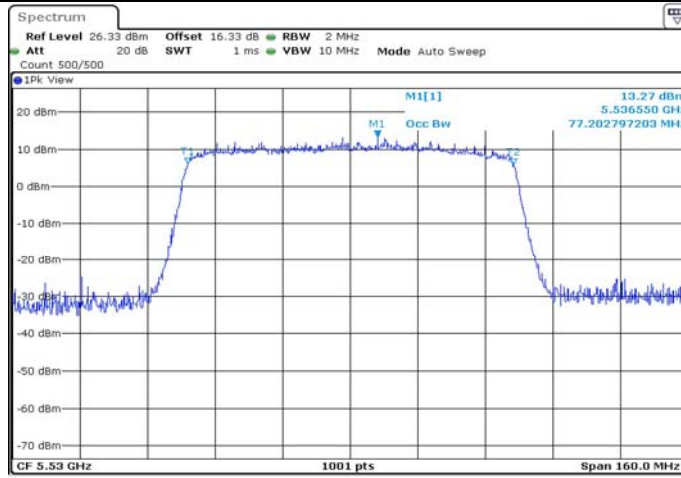
11AX80MIMO Ant2 5290



11AX80MIMO Ant1 5530

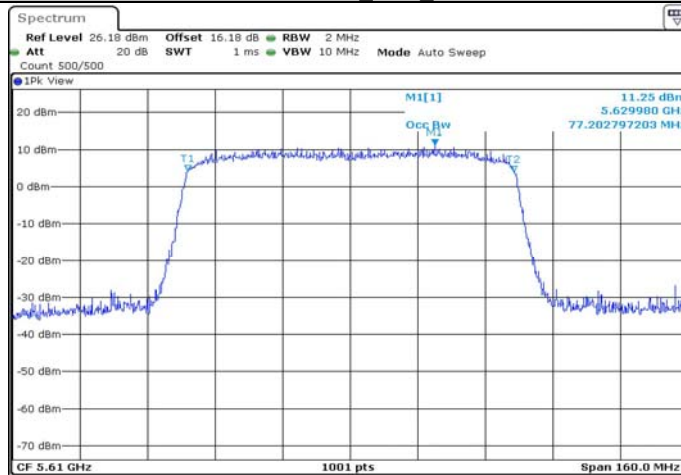


11AX80MIMO Ant2 5530



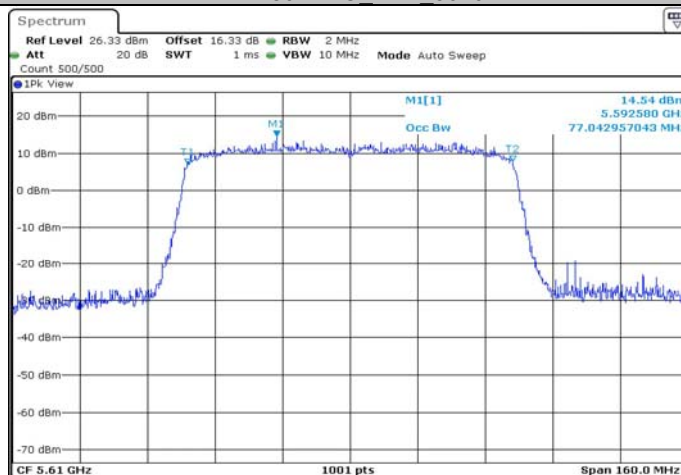
Date: 5.FEB.2021 20:05:31

11AX80MIMO Ant1 5610



Date: 5.FEB.2021 20:06:59

11AX80MIMO Ant2 5610



Date: 5.FEB.2021 20:08:08

Appendix B: Maximum conducted output power Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A CDD	Ant1	5260	11.33	<=23	PASS
	Ant2	5260	12.32	<=23	PASS
	total	5260	14.9	<=23	PASS
	Ant1	5280	10.83	<=23	PASS
	Ant2	5280	12.21	<=23	PASS
	total	5280	14.6	<=23	PASS
	Ant1	5320	11.41	<=23	PASS
	Ant2	5320	12.92	<=23	PASS
	total	5320	15.2	<=23	PASS
	Ant1	5500	10.28	<=23	PASS
	Ant2	5500	11.66	<=23	PASS
	total	5500	14.0	<=23	PASS
	Ant1	5580	10.36	<=23	PASS
	Ant2	5580	12.63	<=23	PASS
	total	5580	14.7	<=23	PASS
	Ant1	5700	10.42	<=23	PASS
	Ant2	5700	9.49	<=23	PASS
	total	5700	12.8	<=23	PASS
11N20MIMO	Ant1	5260	11.95	<=23	PASS
	Ant2	5260	12.99	<=23	PASS
	total	5260	15.5	<=23	PASS
	Ant1	5280	11.48	<=23	PASS
	Ant2	5280	12.68	<=23	PASS
	total	5280	15.1	<=23	PASS
	Ant1	5320	11.16	<=23	PASS
	Ant2	5320	12.49	<=23	PASS
	total	5320	14.9	<=23	PASS
	Ant1	5500	10.89	<=23	PASS
	Ant2	5500	12.35	<=23	PASS
	total	5500	14.7	<=23	PASS
	Ant1	5580	10.55	<=23	PASS
	Ant2	5580	12.84	<=23	PASS
	total	5580	14.9	<=23	PASS
	Ant1	5700	10.05	<=23	PASS
	Ant2	5700	8.89	<=23	PASS
	total	5700	12.5	<=23	PASS
11N40MIMO	Ant1	5270	14.18	<=23	PASS
	Ant2	5270	16.10	<=23	PASS
	total	5270	18.3	<=23	PASS
	Ant1	5310	13.61	<=23	PASS
	Ant2	5310	15.61	<=23	PASS
	total	5310	17.7	<=23	PASS
	Ant1	5510	13.52	<=23	PASS
	Ant2	5510	15.63	<=23	PASS
	total	5510	17.7	<=23	PASS
	Ant1	5550	13.82	<=23	PASS
	Ant2	5550	16.14	<=23	PASS
	total	5550	18.1	<=23	PASS
	Ant1	5670	15.10	<=23	PASS
	Ant2	5670	13.81	<=23	PASS
	total	5670	17.5	<=23	PASS

11AC20MIMO	Ant1	5260	10.86	<=23	PASS
	Ant2	5260	12.00	<=23	PASS
	total	5260	14.5	<=23	PASS
	Ant1	5280	11.27	<=23	PASS
	Ant2	5280	12.80	<=23	PASS
	total	5280	15.1	<=23	PASS
	Ant1	5320	10.98	<=23	PASS
	Ant2	5320	12.52	<=23	PASS
	total	5320	14.8	<=23	PASS
	Ant1	5500	10.86	<=23	PASS
	Ant2	5500	12.23	<=23	PASS
	total	5500	14.6	<=23	PASS
	Ant1	5580	10.38	<=23	PASS
	Ant2	5580	13.00	<=23	PASS
	total	5580	14.9	<=23	PASS
	Ant1	5700	11.90	<=23	PASS
	Ant2	5700	10.00	<=23	PASS
	total	5700	14.1	<=23	PASS
11AC40MIMO	Ant1	5270	14.52	<=23	PASS
	Ant2	5270	15.89	<=23	PASS
	total	5270	18.3	<=23	PASS
	Ant1	5310	13.60	<=23	PASS
	Ant2	5310	15.05	<=23	PASS
	total	5310	17.4	<=23	PASS
	Ant1	5510	14.06	<=23	PASS
	Ant2	5510	16.16	<=23	PASS
	total	5510	18.2	<=23	PASS
	Ant1	5550	13.79	<=23	PASS
	Ant2	5550	16.05	<=23	PASS
	total	5550	18.1	<=23	PASS
	Ant1	5670	12.14	<=23	PASS
	Ant2	5670	10.71	<=23	PASS
	total	5670	14.5	<=23	PASS
11AC80MIMO	Ant1	5290	16.33	<=23	PASS
	Ant2	5290	15.67	<=23	PASS
	total	5290	19.02	<=23	PASS
	Ant1	5530	16.61	<=23	PASS
	Ant2	5530	16.08	<=23	PASS
	total	5530	19.36	<=23	PASS
	Ant1	5610	16.78	<=23	PASS
	Ant2	5610	15.43	<=23	PASS
	total	5610	19.17	<=23	PASS
11AX20MIMO	Ant1	5260	9.64	<=23	PASS
	Ant2	5260	10.79	<=23	PASS
	total	5260	13.3	<=23	PASS
	Ant1	5280	8.93	<=23	PASS
	Ant2	5280	10.50	<=23	PASS
	total	5280	12.8	<=23	PASS
	Ant1	5320	8.70	<=23	PASS
	Ant2	5320	10.30	<=23	PASS
	total	5320	12.6	<=23	PASS
	Ant1	5500	8.56	<=23	PASS
	Ant2	5500	10.31	<=23	PASS
	total	5500	12.5	<=23	PASS
	Ant1	5580	7.98	<=23	PASS
	Ant2	5580	10.86	<=23	PASS
	total	5580	12.7	<=23	PASS
	Ant1	5700	9.81	<=23	PASS

	Ant2	5700	8.83	<=23	PASS
	total	5700	12.4	<=23	PASS
11AX40MIMO	Ant1	5270	11.76	<=23	PASS
	Ant2	5270	13.06	<=23	PASS
	total	5270	15.5	<=23	PASS
	Ant1	5310	12.26	<=23	PASS
	Ant2	5310	13.97	<=23	PASS
	total	5310	16.2	<=23	PASS
	Ant1	5510	11.99	<=23	PASS
	Ant2	5510	13.93	<=23	PASS
	total	5510	16.1	<=23	PASS
	Ant1	5550	12.19	<=23	PASS
	Ant2	5550	14.27	<=23	PASS
	total	5550	16.4	<=23	PASS
	Ant1	5670	12.19	<=23	PASS
	Ant2	5670	11.49	<=23	PASS
	total	5670	14.7	<=23	PASS
11AX80MIMO	Ant1	5290	14.39	<=23	PASS
	Ant2	5290	16.08	<=23	PASS
	total	5290	18.3	<=23	PASS
	Ant1	5530	14.19	<=23	PASS
	Ant2	5530	16.26	<=23	PASS
	total	5530	18.4	<=23	PASS
	Ant1	5610	14.64	<=23	PASS
	Ant2	5610	17.23	<=23	PASS
	total	5610	19.1	<=23	PASS

Note: EUT is AP and support beamforming

Directional gain = $G_{ANT} + \text{Array Gain}$

$\text{Array Gain} = 10 * \log(N_{ant}/N_{ss})$ dB

For the worst case, $N_{ss}=1$, so:

Directional gain = 4dBi + $10 * \log(2/1)$ dB = 7dBi > 6dBi, so the limit should reduce 1dB.

Appendix C: Maximum power spectral density Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A CDD	Ant1	5260	7.23	<=10	PASS
	Ant2	5260	6.14	<=10	PASS
	total	5260	9.73	<=10	PASS
	Ant1	5280	6.43	<=10	PASS
	Ant2	5280	5.89	<=10	PASS
	total	5280	9.18	<=10	PASS
	Ant1	5320	7.18	<=10	PASS
	Ant2	5320	6.46	<=10	PASS
	total	5320	9.82	<=10	PASS
	Ant1	5500	6.4	<=10	PASS
	Ant2	5500	5.64	<=10	PASS
	total	5500	9.05	<=10	PASS
	Ant1	5580	5.82	<=10	PASS
	Ant2	5580	6.28	<=10	PASS
	total	5580	9.07	<=10	PASS
	Ant1	5700	4.09	<=10	PASS
	Ant2	5700	4.17	<=10	PASS
	total	5700	6.80	<=10	PASS
11N20MIMO	Ant1	5260	6.73	<=10	PASS
	Ant2	5260	6.73	<=10	PASS
	total	5260	9.74	<=10	PASS
	Ant1	5280	6.61	<=10	PASS
	Ant2	5280	6.94	<=10	PASS
	total	5280	9.79	<=10	PASS
	Ant1	5320	5.56	<=10	PASS
	Ant2	5320	6.25	<=10	PASS
	total	5320	8.93	<=10	PASS
	Ant1	5500	6.28	<=10	PASS
	Ant2	5500	5.99	<=10	PASS
	total	5500	9.15	<=10	PASS
	Ant1	5580	6.21	<=10	PASS
	Ant2	5580	7.14	<=10	PASS
	total	5580	9.71	<=10	PASS
	Ant1	5700	3.96	<=10	PASS
	Ant2	5700	3.66	<=10	PASS
	total	5700	6.82	<=10	PASS
11N40MIMO	Ant1	5270	6.31	<=10	PASS
	Ant2	5270	6.92	<=10	PASS
	total	5270	9.64	<=10	PASS
	Ant1	5310	6.26	<=10	PASS
	Ant2	5310	6.09	<=10	PASS
	total	5310	9.19	<=10	PASS
	Ant1	5510	5.26	<=10	PASS
	Ant2	5510	5.8	<=10	PASS
	total	5510	8.55	<=10	PASS
	Ant1	5550	5.47	<=10	PASS
	Ant2	5550	7.1	<=10	PASS
	total	5550	9.37	<=10	PASS
	Ant1	5670	6.56	<=10	PASS
	Ant2	5670	5.99	<=10	PASS
	total	5670	9.29	<=10	PASS
11AC20MIMO	Ant1	5260	6.13	<=10	PASS

	Ant2	5260	5.96	<=10	PASS
	total	5260	9.06	<=10	PASS
	Ant1	5280	6.02	<=10	PASS
	Ant2	5280	6.71	<=10	PASS
	total	5280	9.39	<=10	PASS
	Ant1	5320	5.53	<=10	PASS
	Ant2	5320	6.49	<=10	PASS
	total	5320	9.05	<=10	PASS
	Ant1	5500	6.42	<=10	PASS
	Ant2	5500	6.82	<=10	PASS
	total	5500	9.63	<=10	PASS
	Ant1	5580	5.36	<=10	PASS
	Ant2	5580	7.12	<=10	PASS
	total	5580	9.34	<=10	PASS
	Ant1	5700	5.59	<=10	PASS
	Ant2	5700	4.5	<=10	PASS
	total	5700	8.09	<=10	PASS
11AC40MIMO	Ant1	5270	6.83	<=10	PASS
	Ant2	5270	7.13	<=10	PASS
	total	5270	9.92	<=10	PASS
	Ant1	5310	5.98	<=10	PASS
	Ant2	5310	6.87	<=10	PASS
	total	5310	9.46	<=10	PASS
	Ant1	5510	5.68	<=10	PASS
	Ant2	5510	6.95	<=10	PASS
	total	5510	9.37	<=10	PASS
	Ant1	5550	5.97	<=10	PASS
	Ant2	5550	7.21	<=10	PASS
	total	5550	9.64	<=10	PASS
	Ant1	5670	3.52	<=10	PASS
	Ant2	5670	2.67	<=10	PASS
	total	5670	6.13	<=10	PASS
11AC80MIMO	Ant1	5290	5.35	<=16	PASS
	Ant2	5290	6.52	<=10	PASS
	total	5290	8.98	<=10	PASS
	Ant1	5530	6.47	<=10	PASS
	Ant2	5530	6.66	<=10	PASS
	total	5530	9.58	<=10	PASS
	Ant1	5610	5.82	<=10	PASS
	Ant2	5610	5.45	<=10	PASS
	total	5610	8.65	<=10	PASS
11AX20MIMO	Ant1	5260	6.41	<=10	PASS
	Ant2	5260	7.24	<=10	PASS
	total	5260	9.86	<=10	PASS
	Ant1	5280	5.4	<=10	PASS
	Ant2	5280	6.6	<=10	PASS
	total	5280	9.05	<=10	PASS
	Ant1	5320	4.93	<=10	PASS
	Ant2	5320	6.84	<=10	PASS
	total	5320	9.00	<=10	PASS
	Ant1	5500	5.33	<=10	PASS
	Ant2	5500	7.05	<=10	PASS
	total	5500	9.28	<=10	PASS
	Ant1	5580	4.43	<=10	PASS
	Ant2	5580	6.89	<=10	PASS
	total	5580	8.84	<=10	PASS
	Ant1	5700	6.08	<=10	PASS
	Ant2	5700	5.41	<=10	PASS

	total	5700	8.77	<=10	PASS
11AX40MIMO	Ant1	5270	5.48	<=10	PASS
	Ant2	5270	6.39	<=10	PASS
	total	5270	8.97	<=10	PASS
	Ant1	5310	6.12	<=10	PASS
	Ant2	5310	7.07	<=10	PASS
	total	5310	9.63	<=10	PASS
	Ant1	5510	4.76	<=10	PASS
	Ant2	5510	6.43	<=10	PASS
	total	5510	8.69	<=10	PASS
	Ant1	5550	4.94	<=10	PASS
	Ant2	5550	6.73	<=10	PASS
	total	5550	8.94	<=10	PASS
	Ant1	5670	5.77	<=10	PASS
	Ant2	5670	6.77	<=10	PASS
	total	5670	9.31	<=10	PASS
11AX80MIMO	Ant1	5290	4.26	<=10	PASS
	Ant2	5290	5.99	<=10	PASS
	total	5290	8.22	<=10	PASS
	Ant1	5530	4.32	<=10	PASS
	Ant2	5530	5.87	<=10	PASS
	total	5530	8.17	<=10	PASS
	Ant1	5610	4.52	<=10	PASS
	Ant2	5610	6.1	<=10	PASS
	total	5610	8.39	<=10	PASS

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

EUT support beamforming.

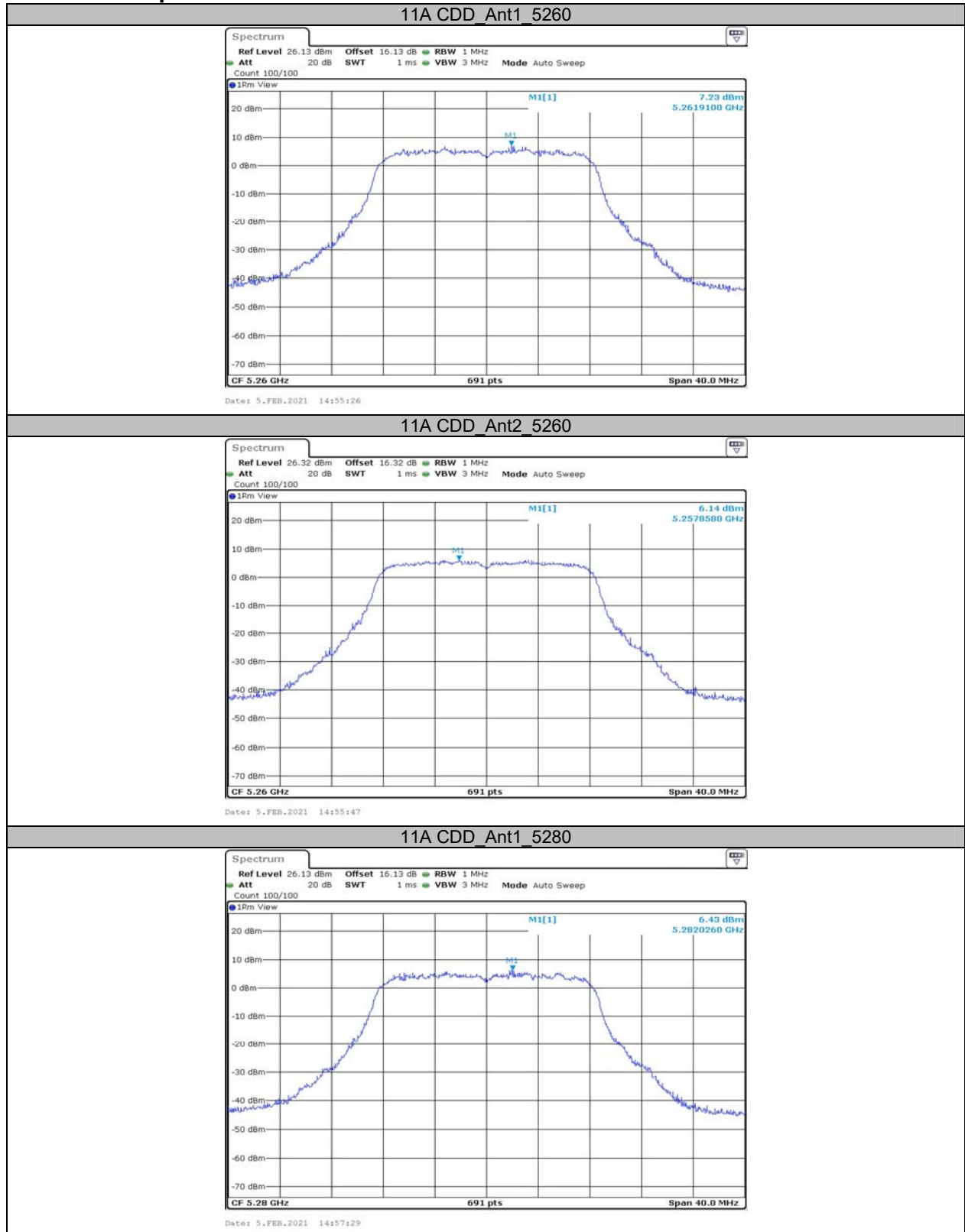
Directional gain = $G_{ANT} + \text{Array Gain}$

$\text{Array Gain} = 10 * \log(N_{ant}/N_{ss})$ dB

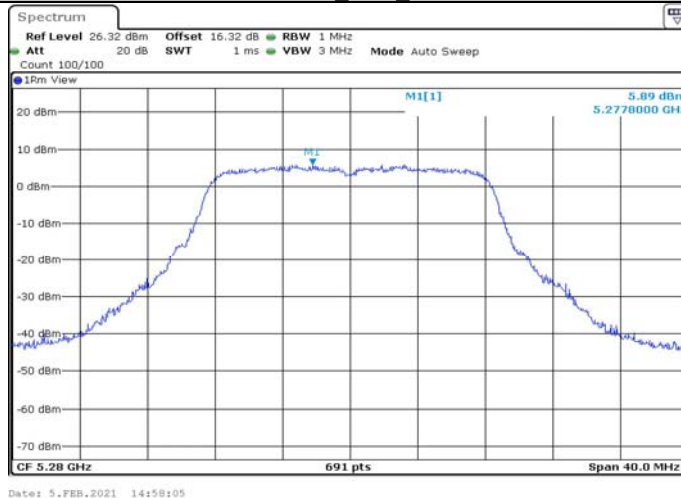
For the worst case, $N_{ss}=1$, so:

Directional gain = 4dBi + $10 * \log(2/1)$ dB = 7dBi > 6dBi, so the limit should reduce 1dB.

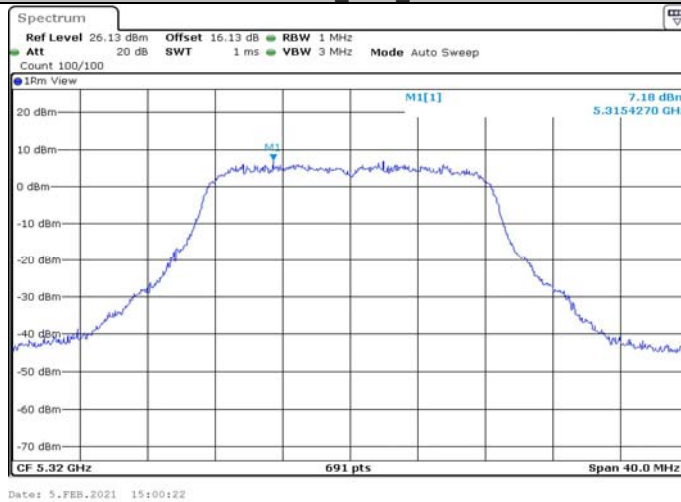
Test Graphs



11A CDD_Ant2_5280

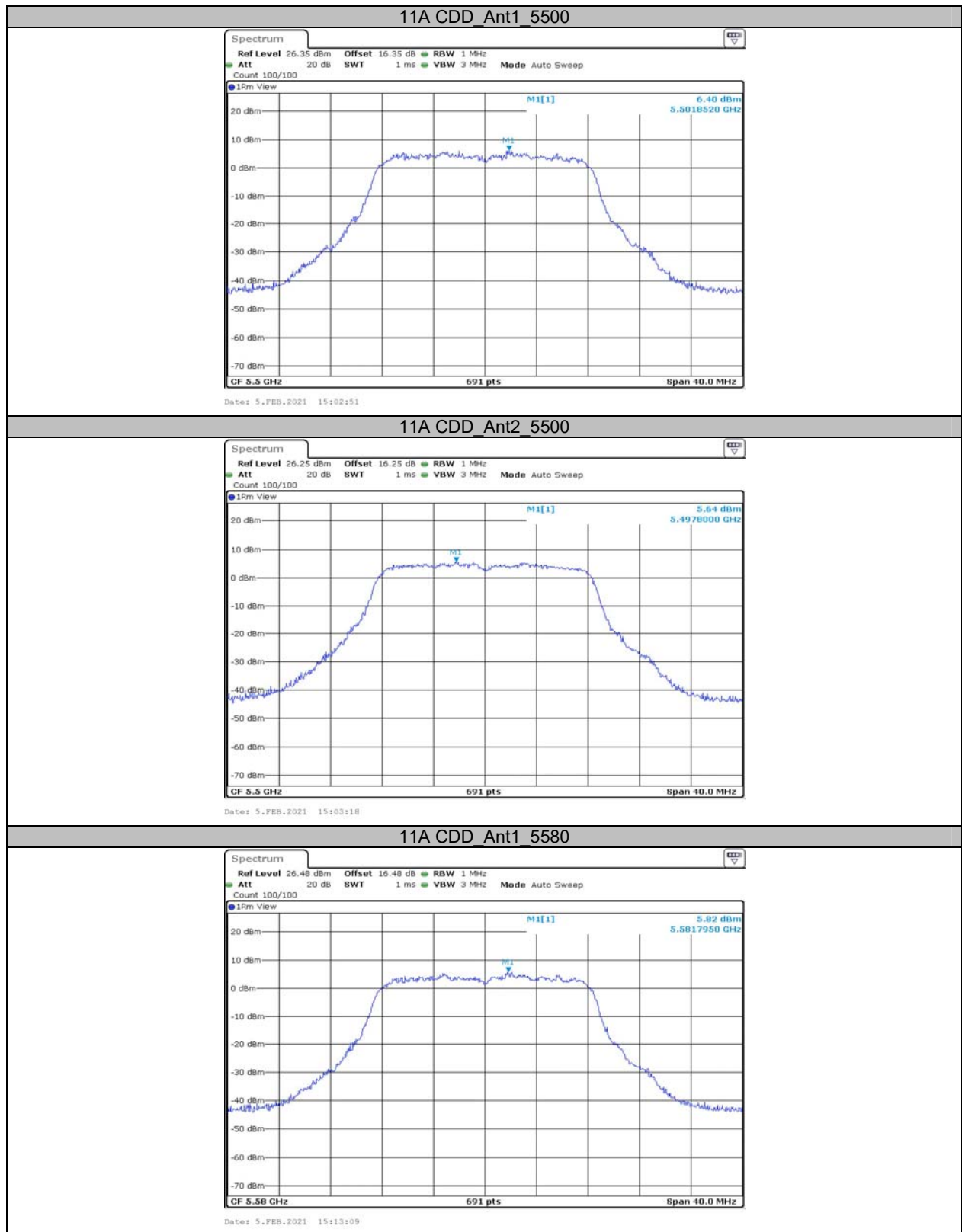


11A CDD_Ant1_5320



11A CDD_Ant2_5320

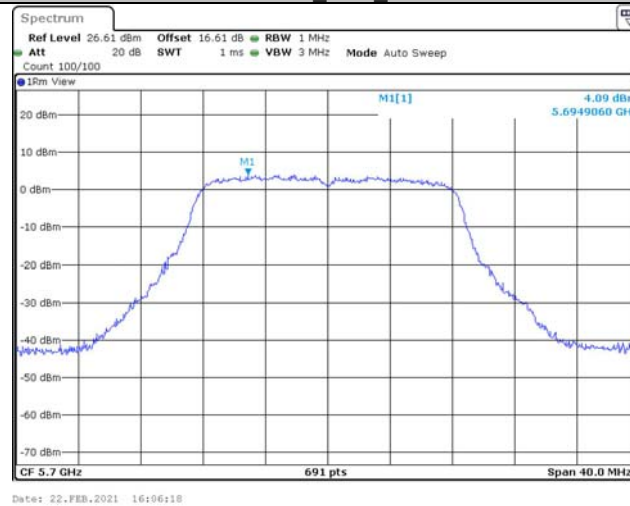




11A CDD_Ant2_5580

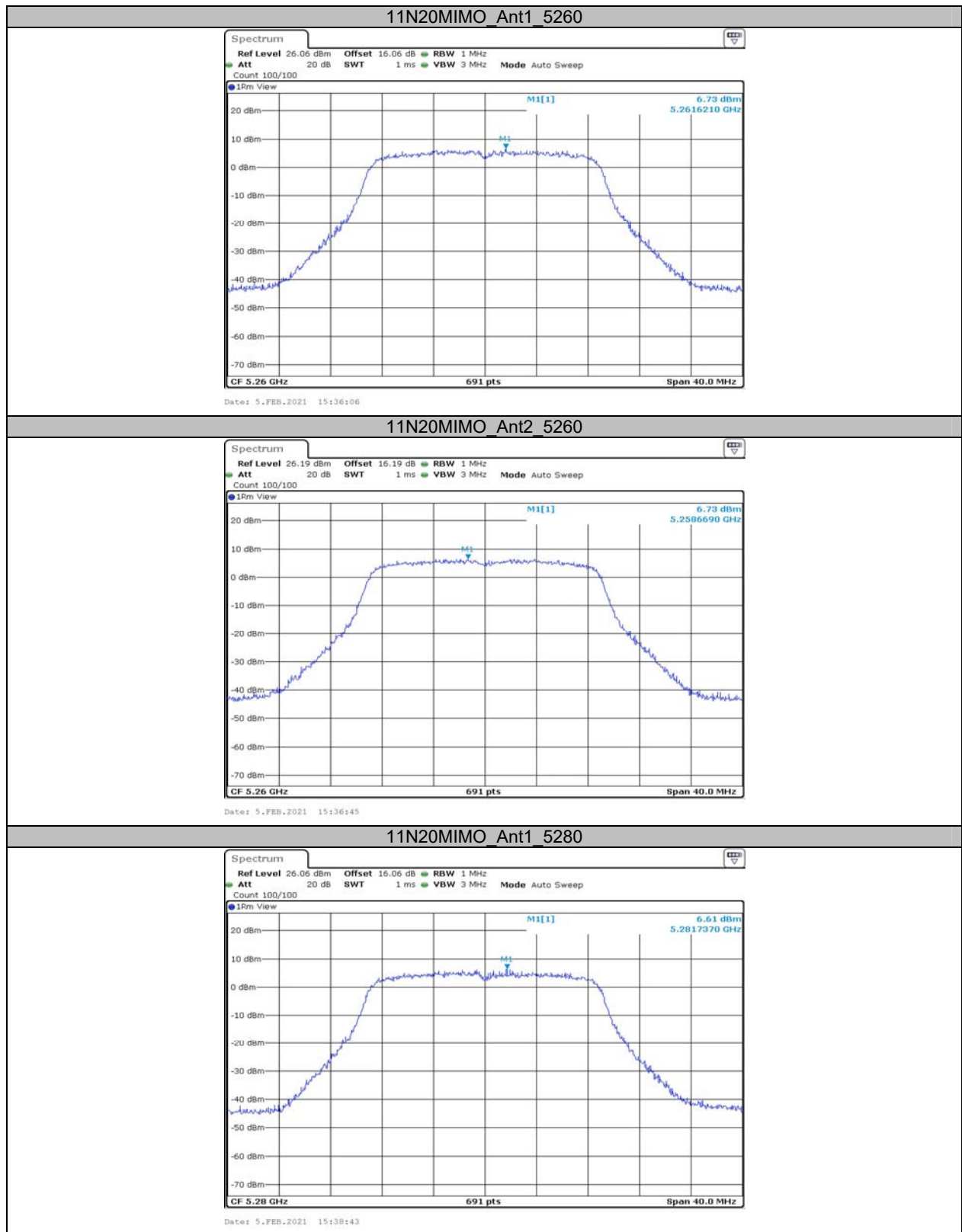


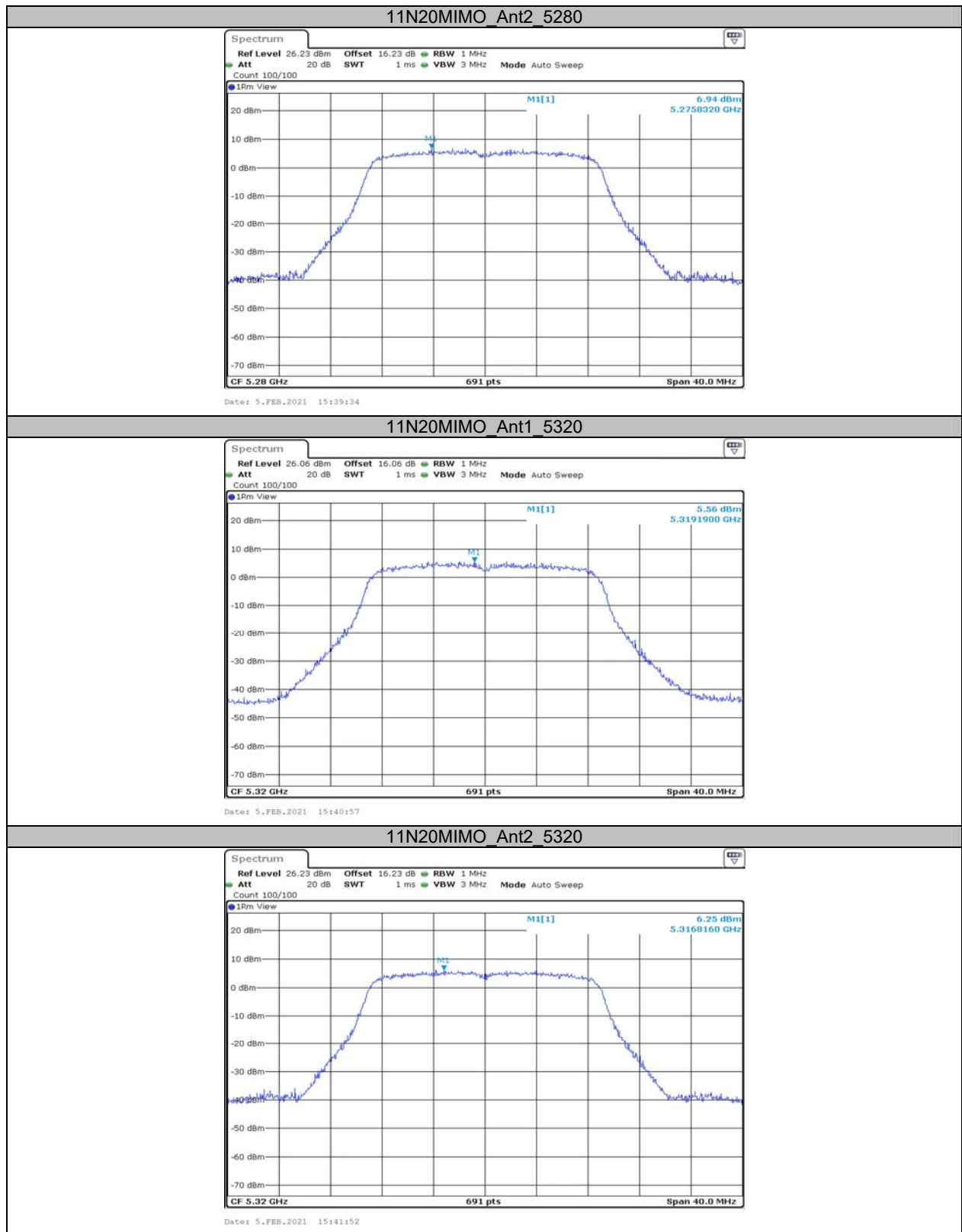
11A CDD_Ant1_5700

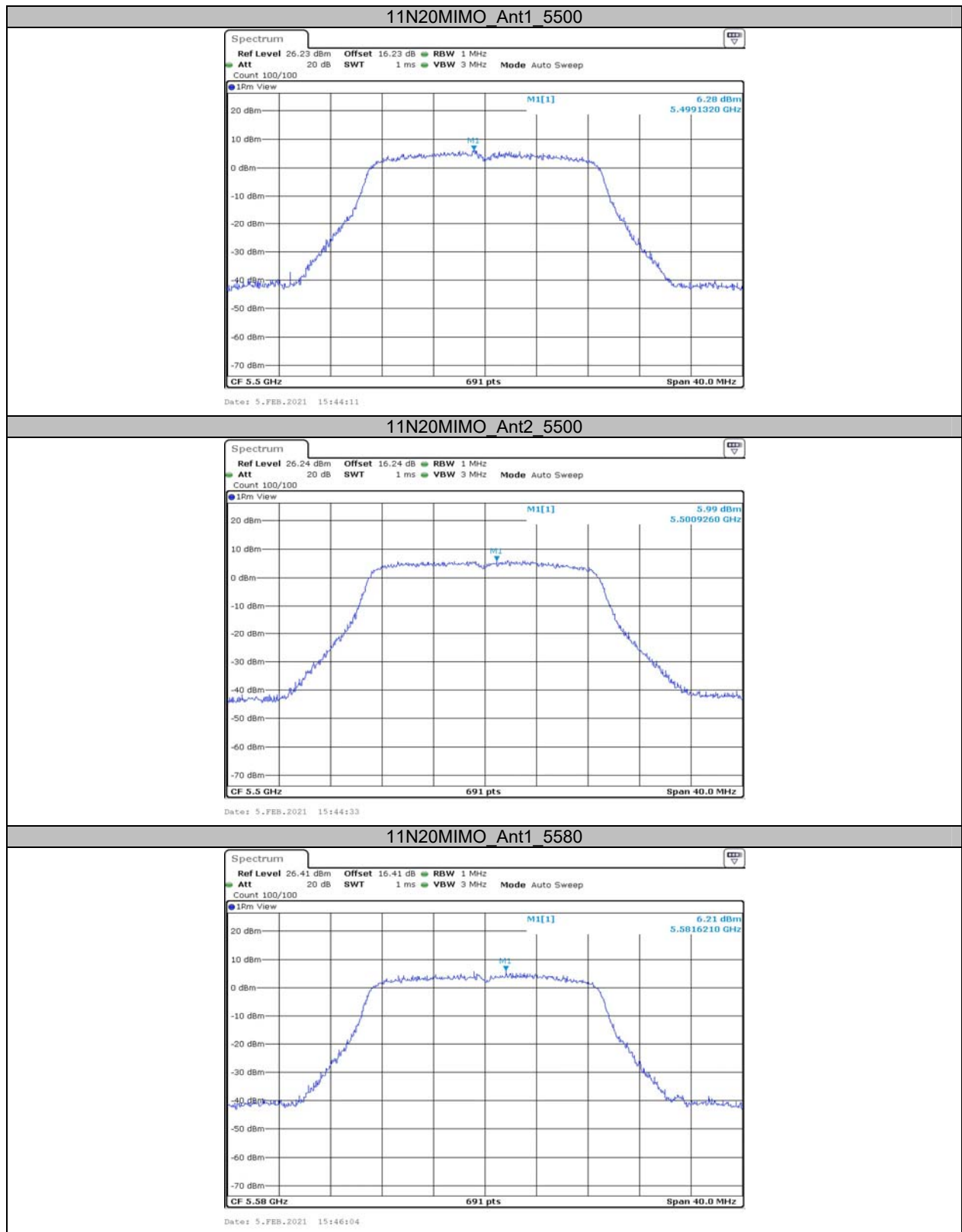


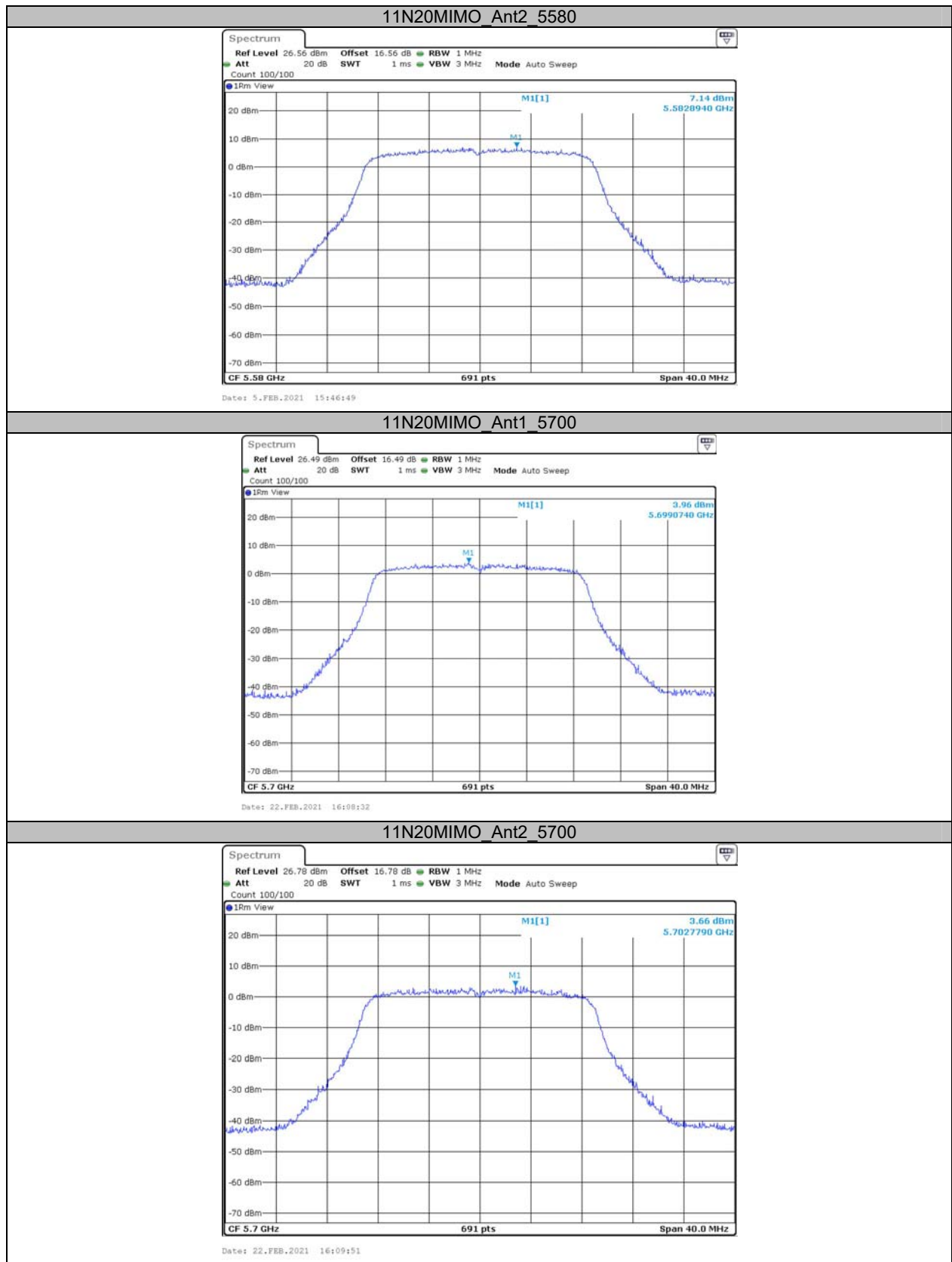
11A CDD_Ant2_5700

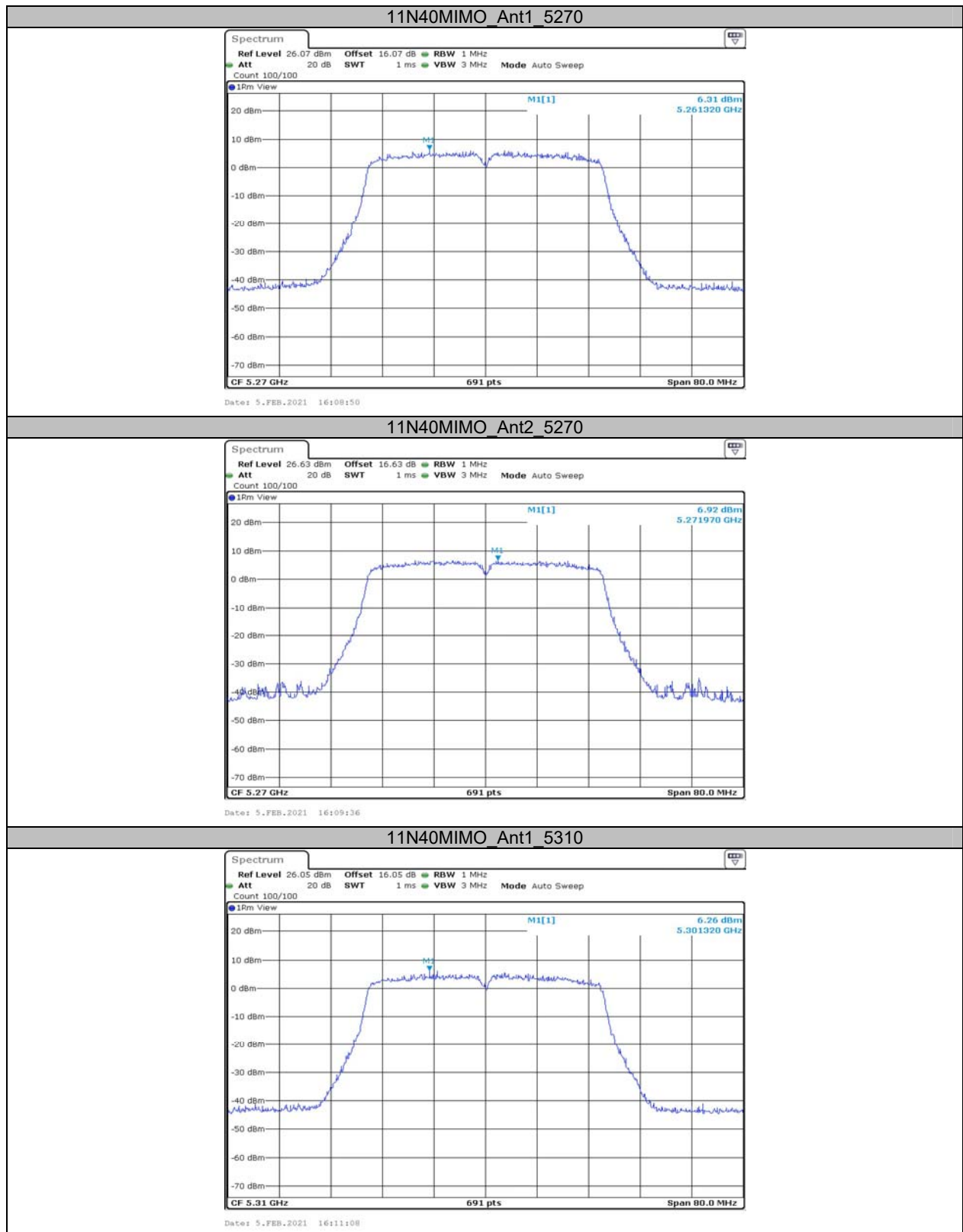




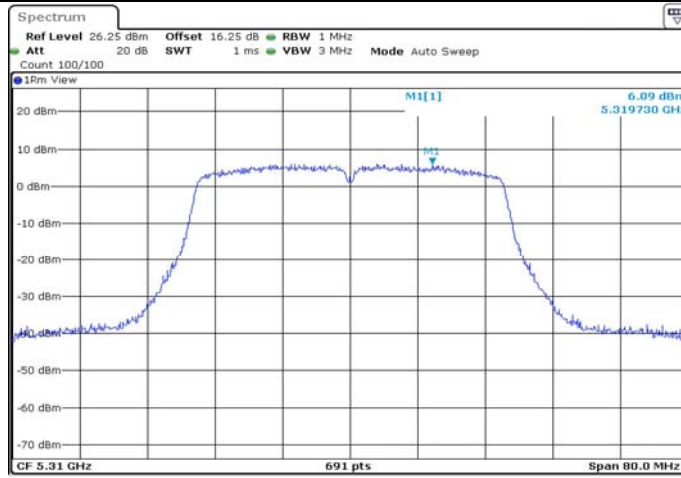






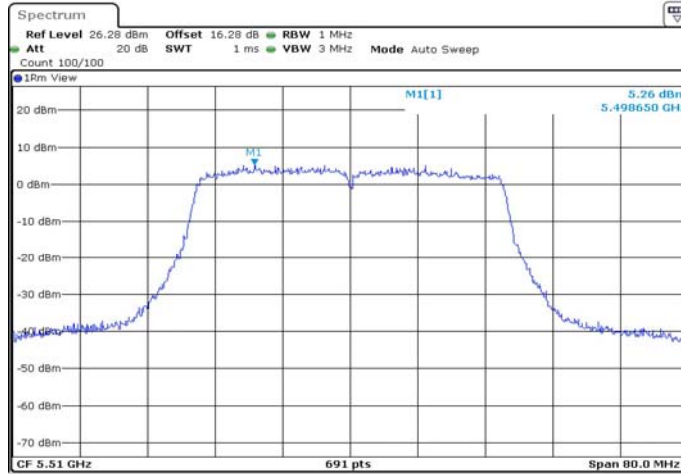


11N40MIMO Ant2 5310



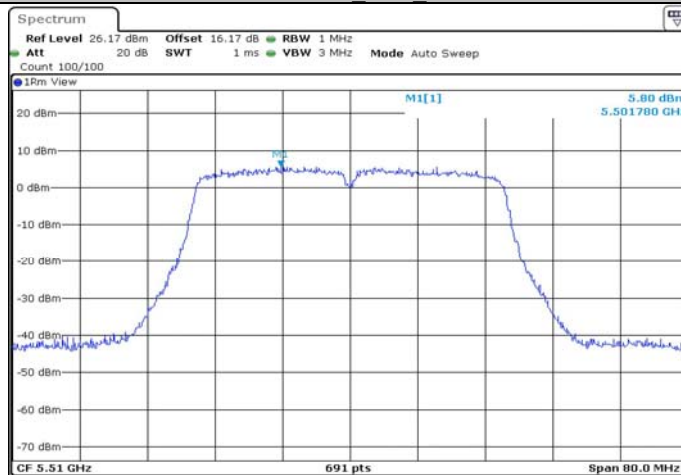
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11N40MIMO Ant1 5510

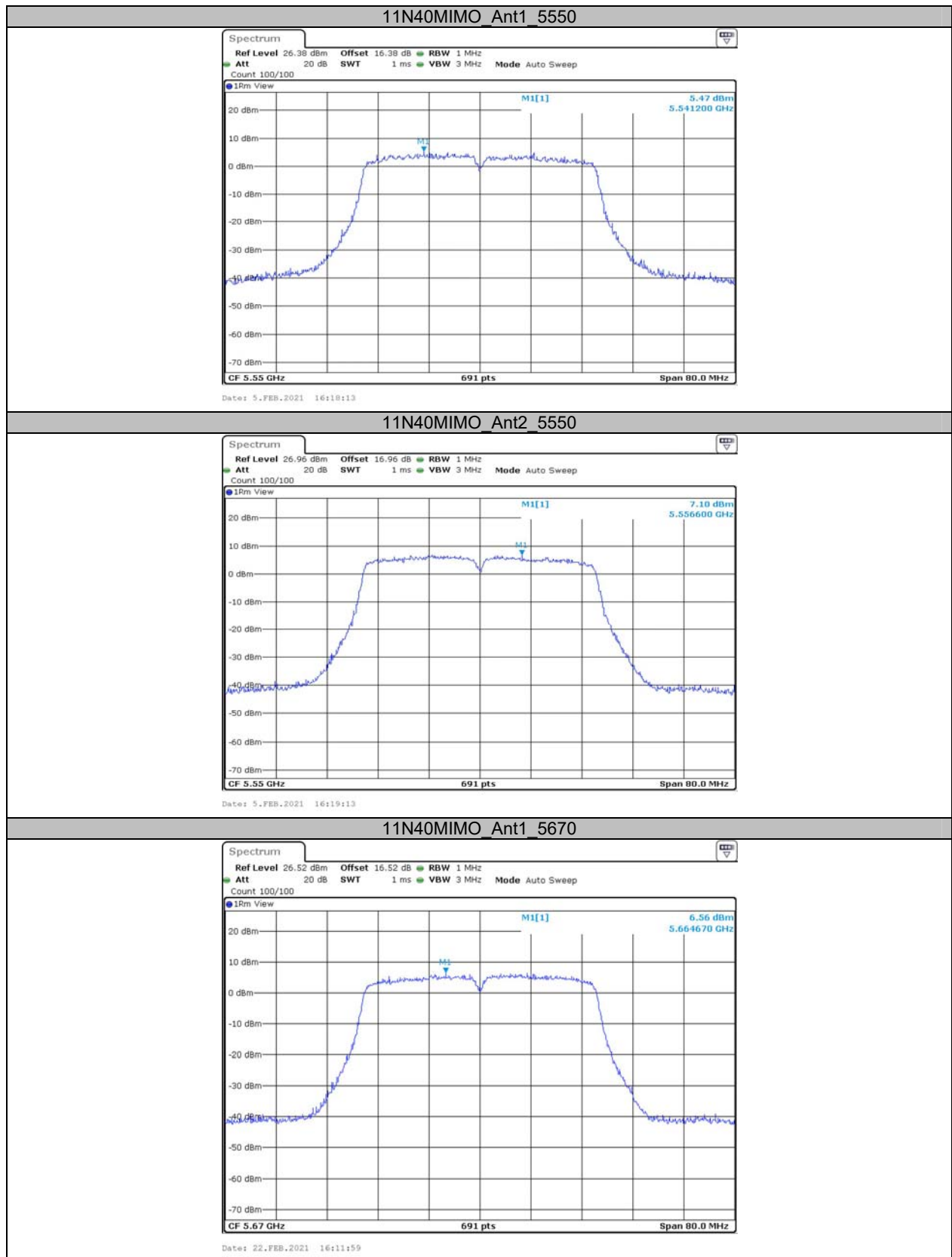


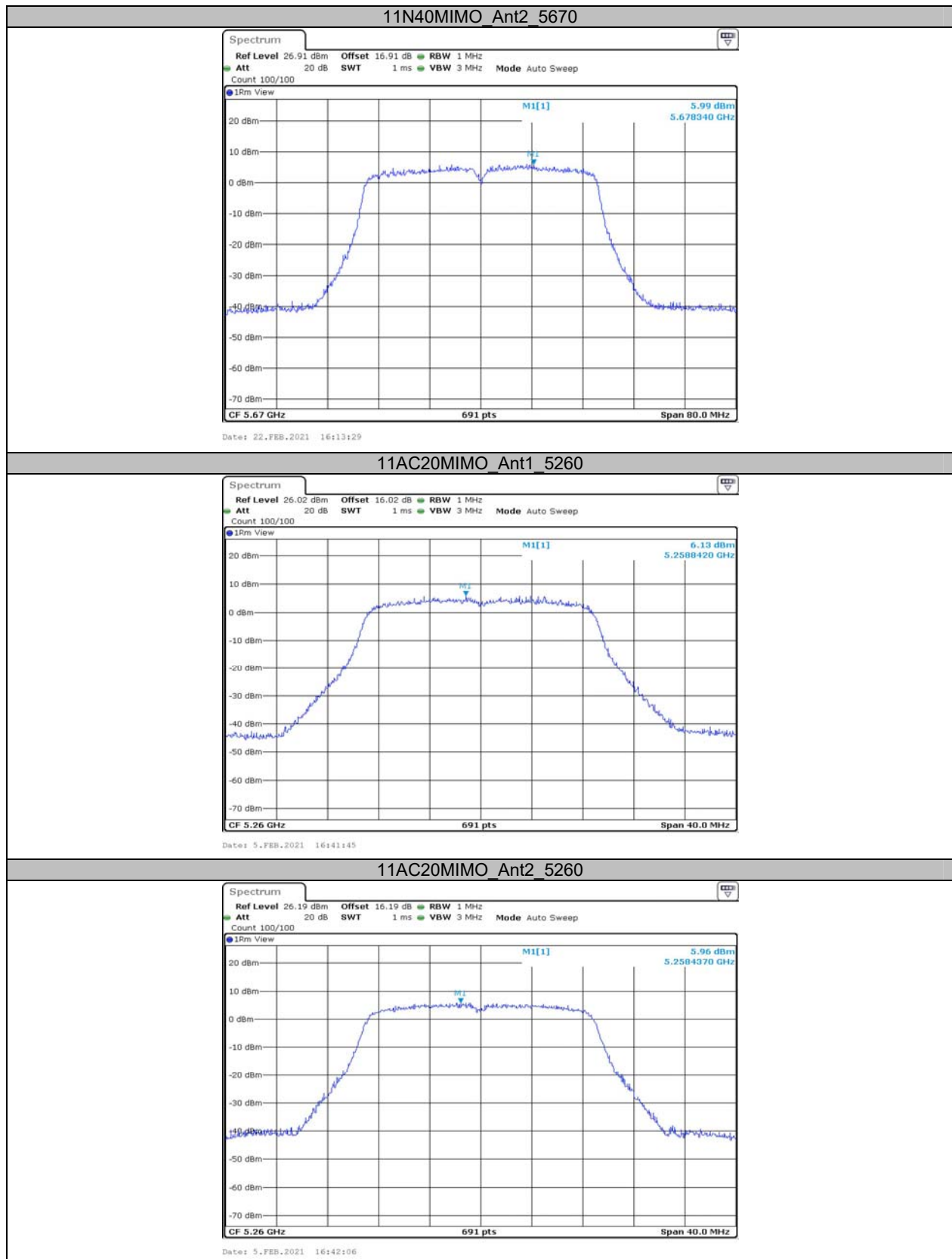
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11N40MIMO Ant2 5510

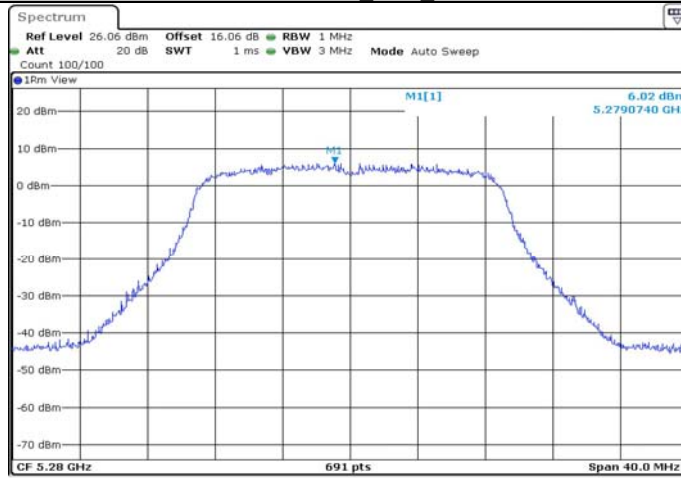


Date: 5.FEB.2021 16:16:28



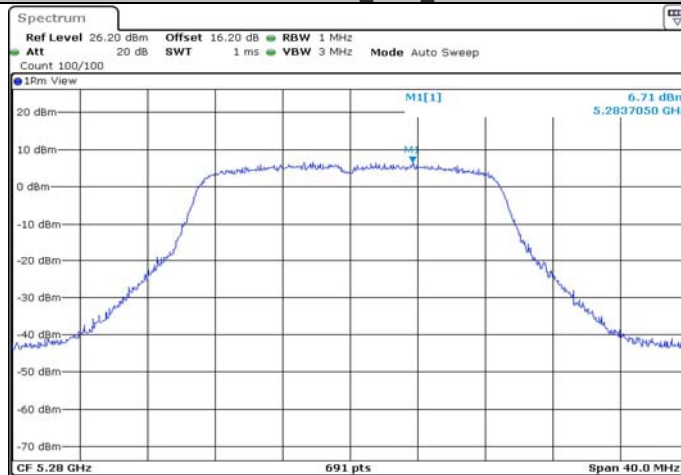


11AC20MIMO Ant1 5280



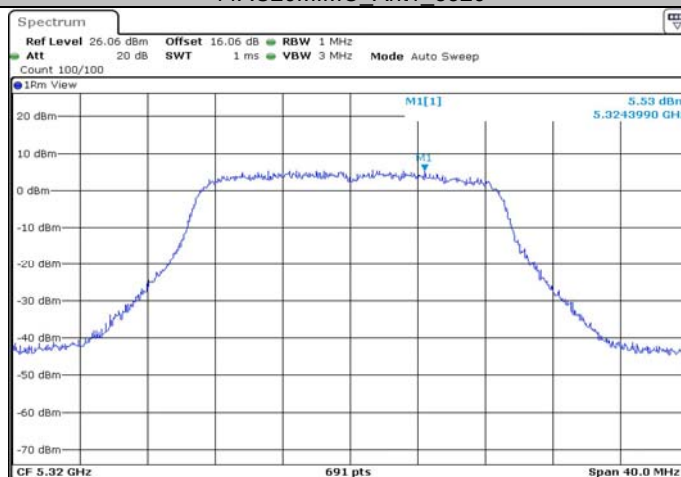
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11AC20MIMO Ant2 5280

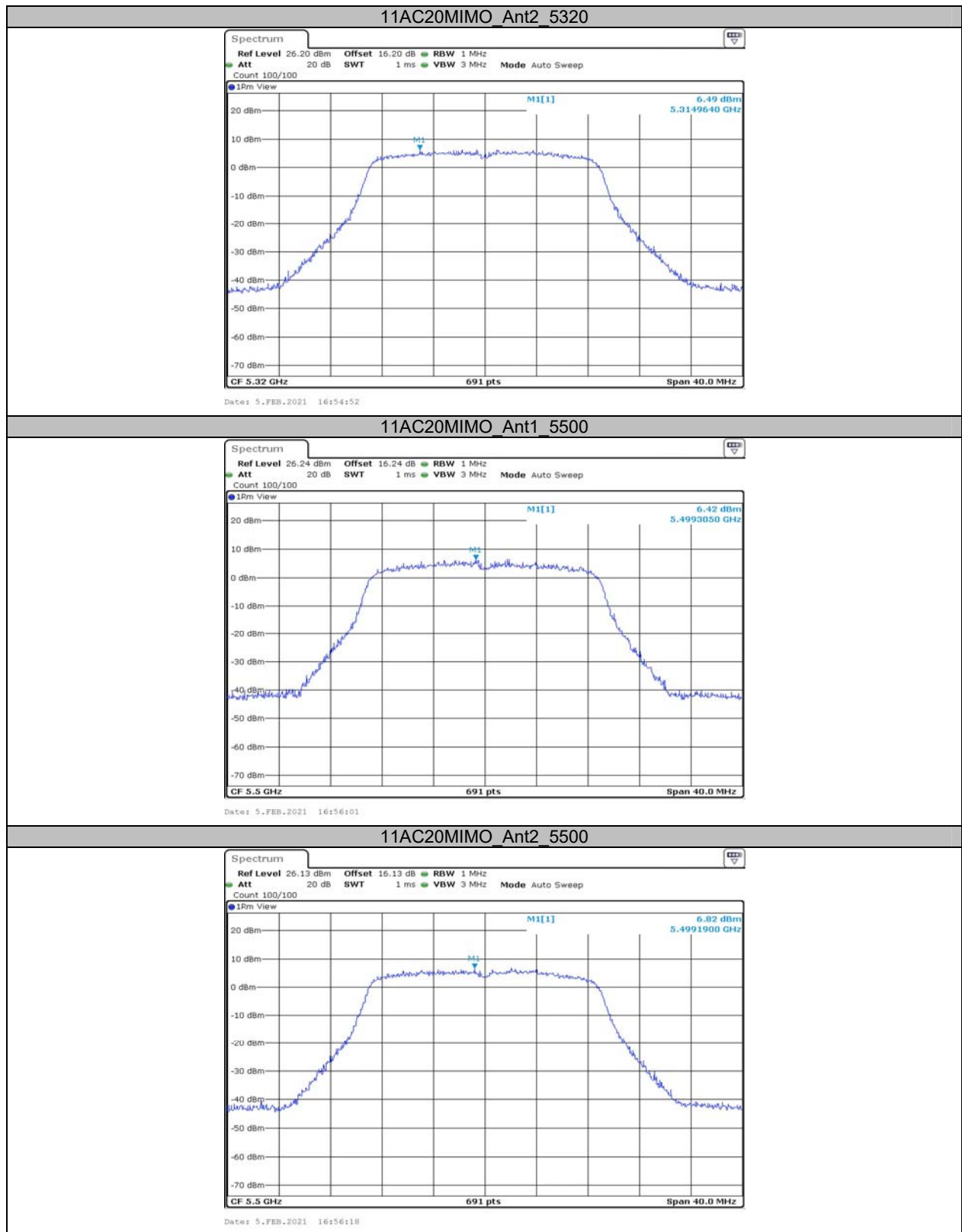


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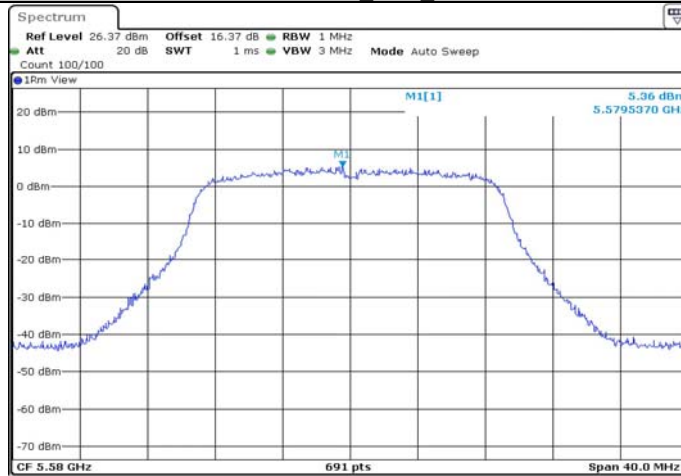
11AC20MIMO Ant1 5320



Date: 5.FEB.2021 16:54:00

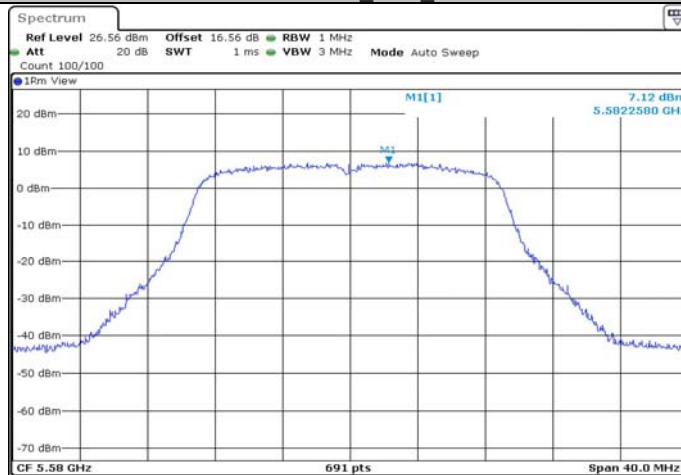


11AC20MIMO Ant1 5580



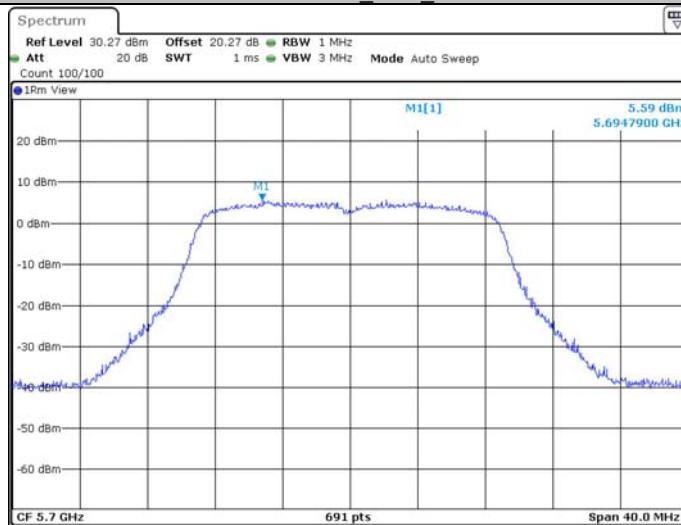
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11AC20MIMO Ant2 5580

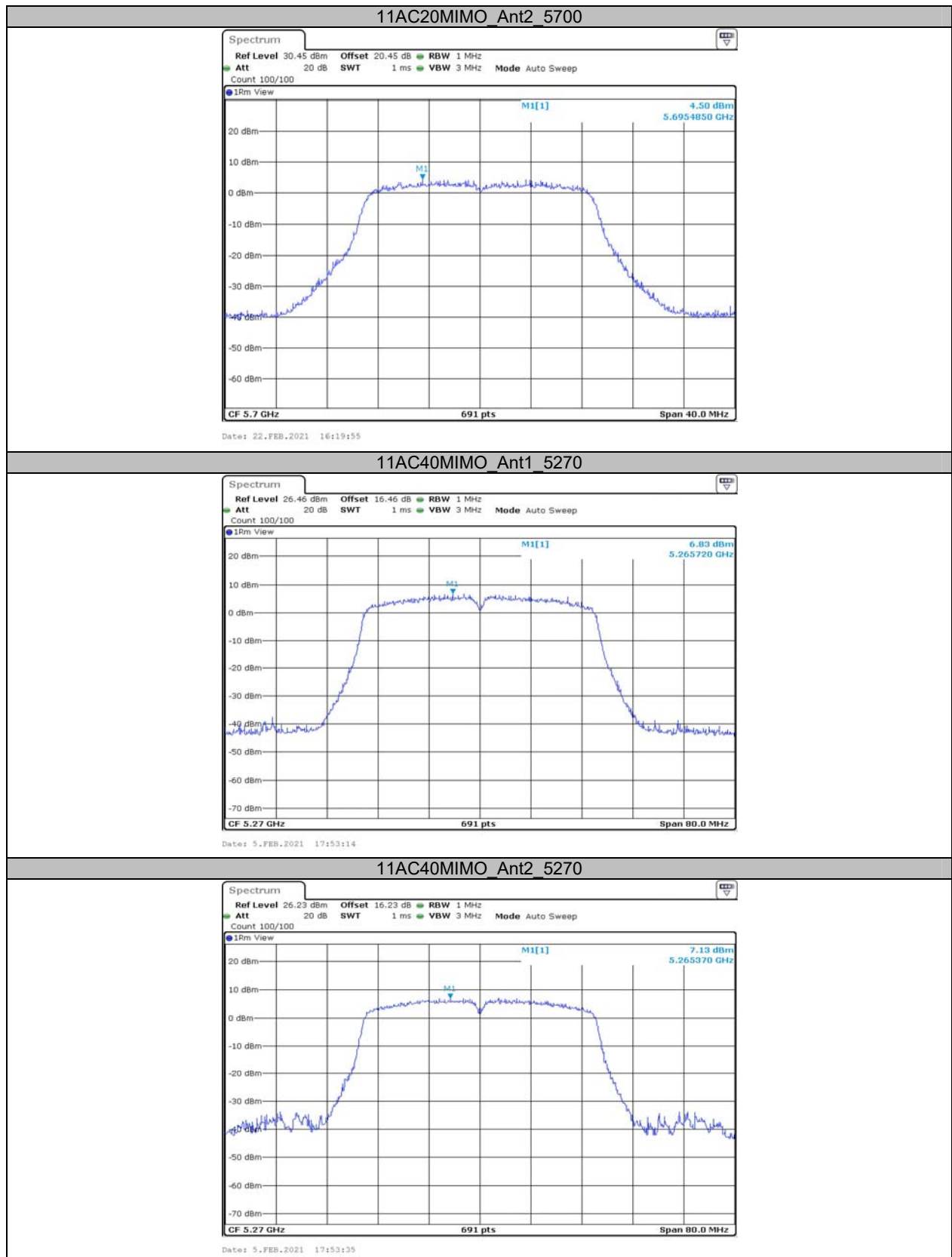


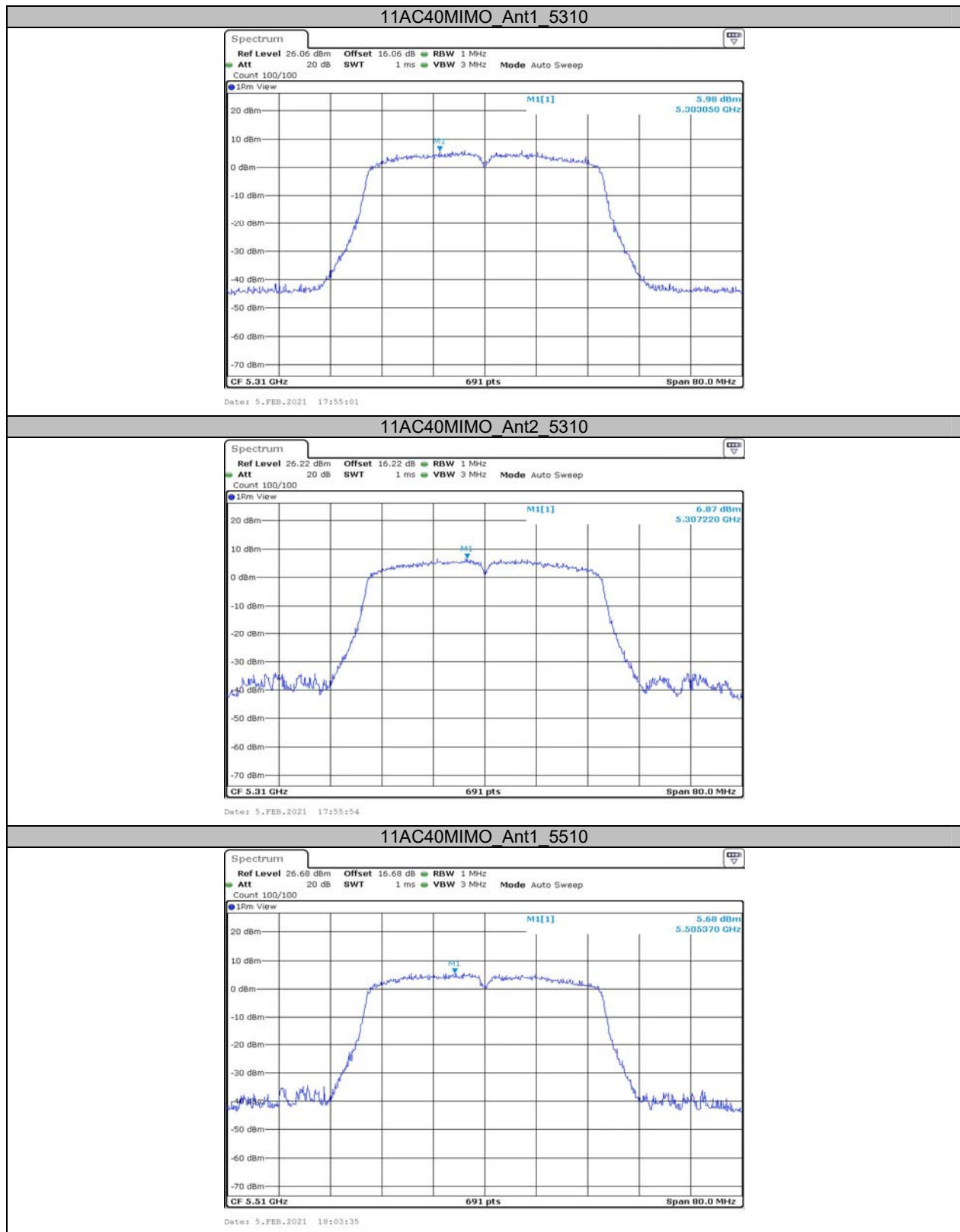
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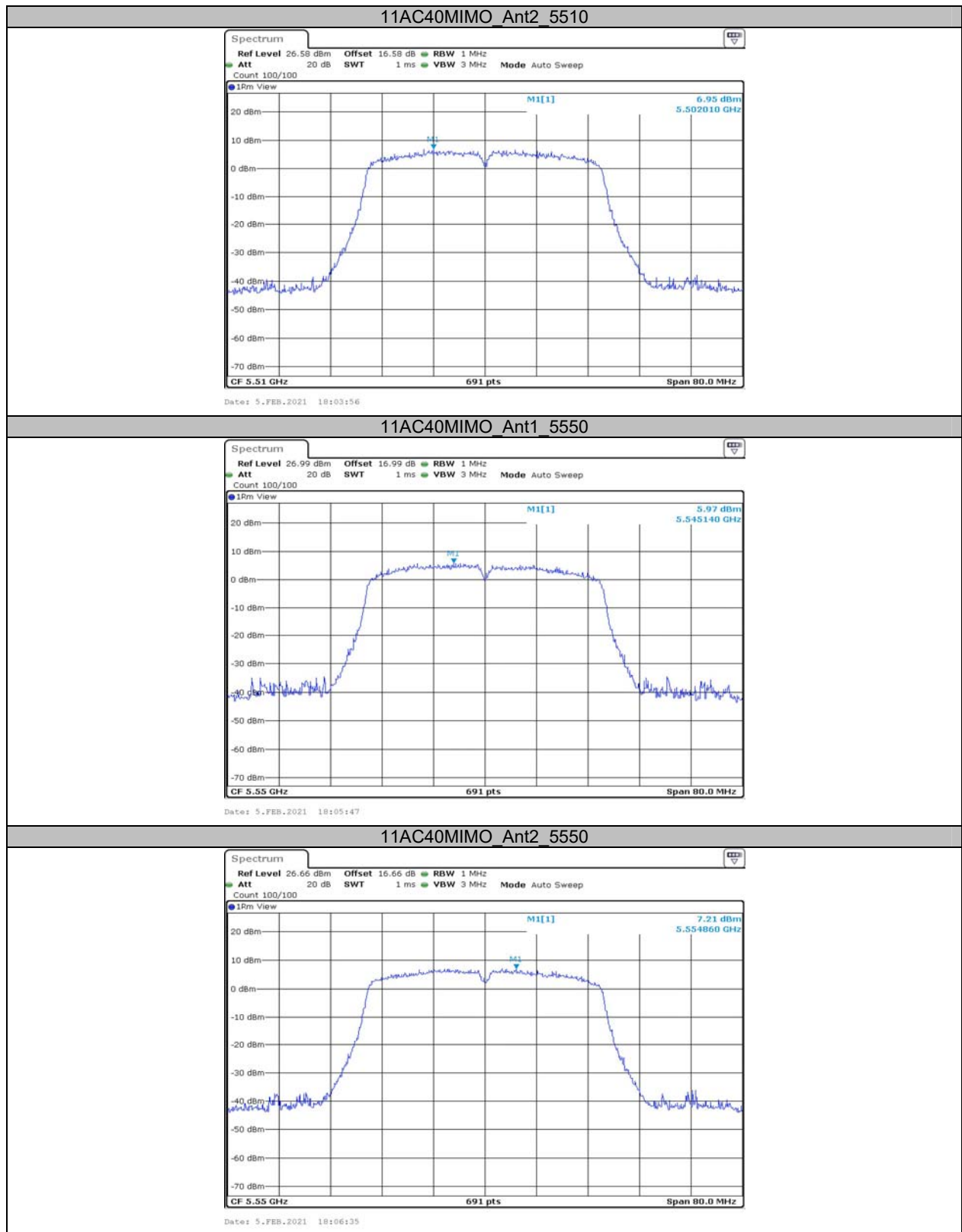
11AC20MIMO Ant1 5700

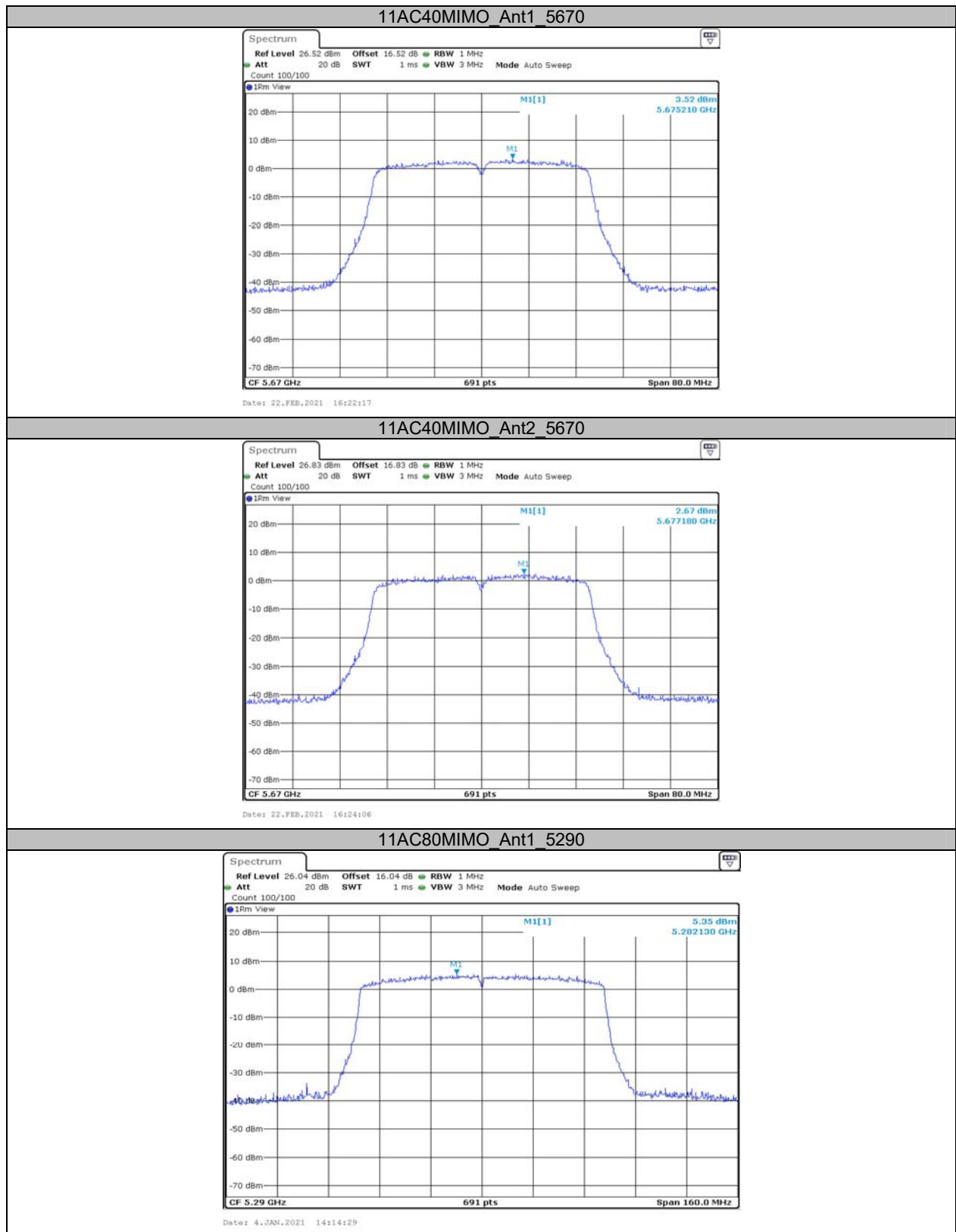


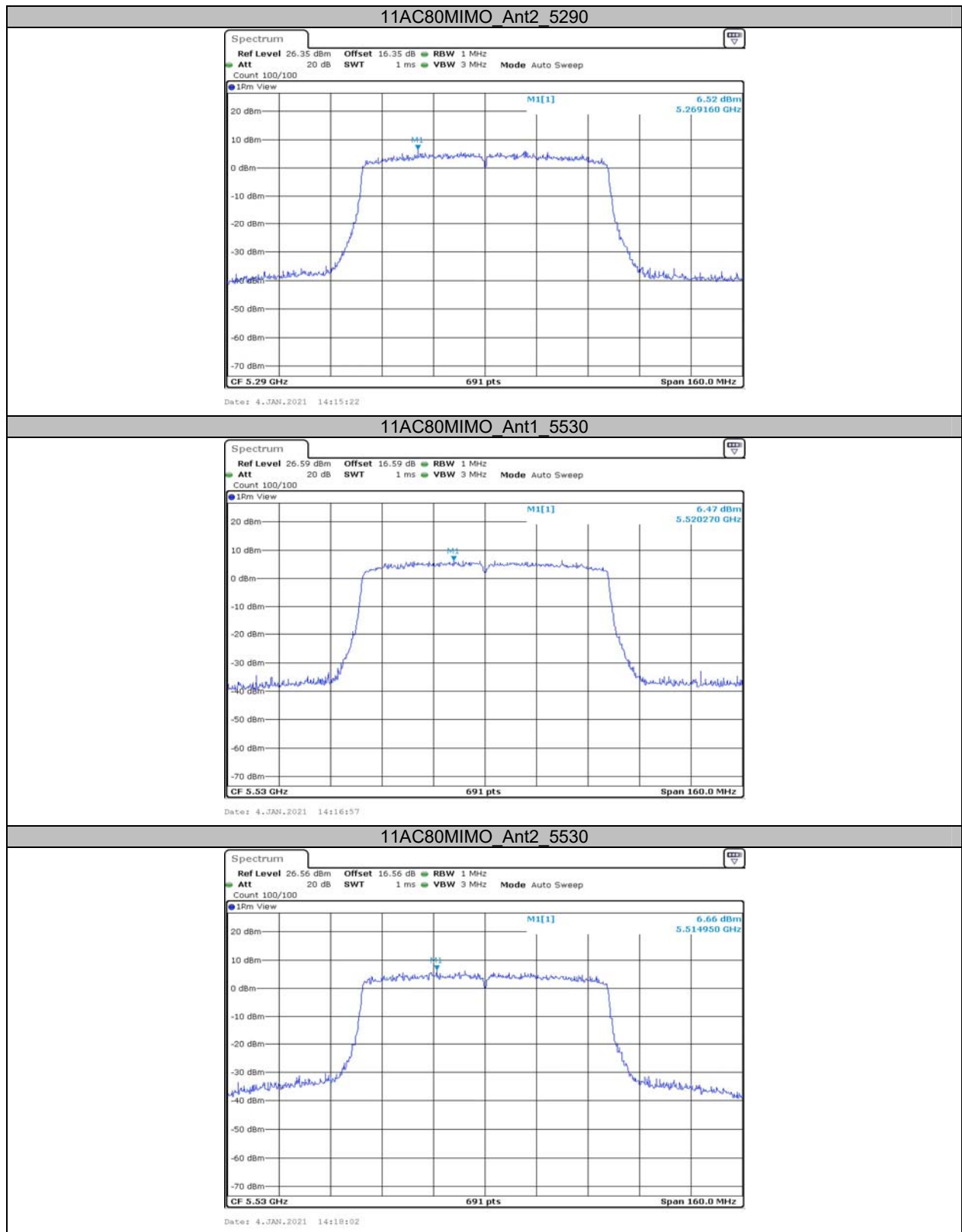
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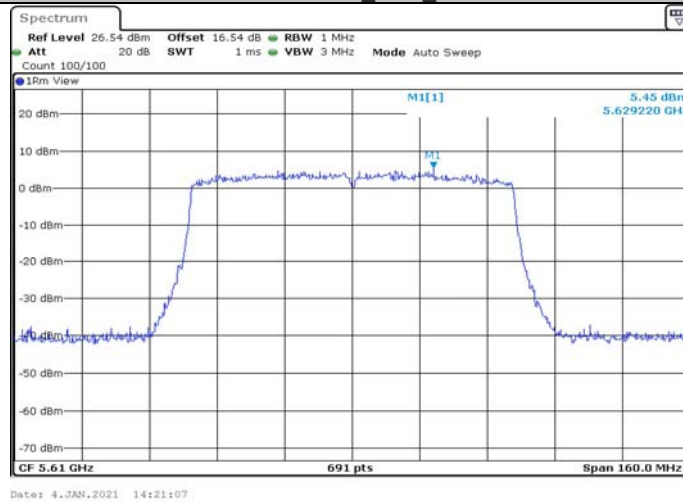




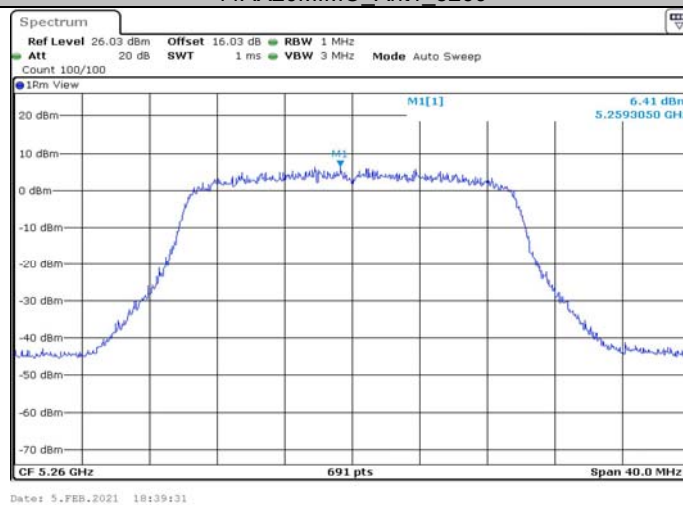
11AC80MIMO Ant1_5610



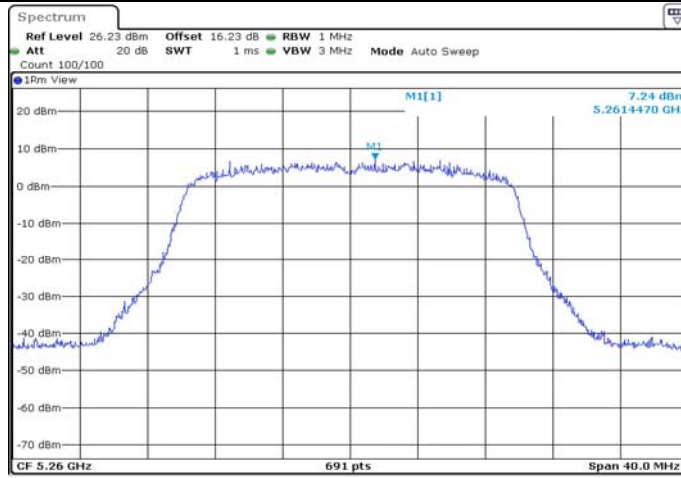
11AC80MIMO Ant2_5610



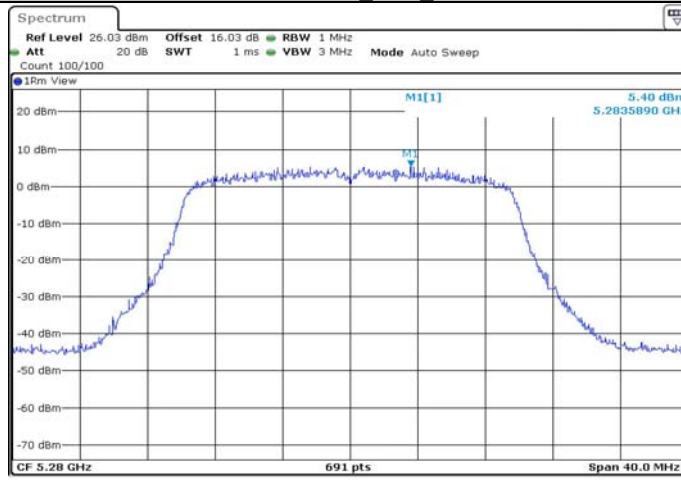
11AX20MIMO Ant1_5260



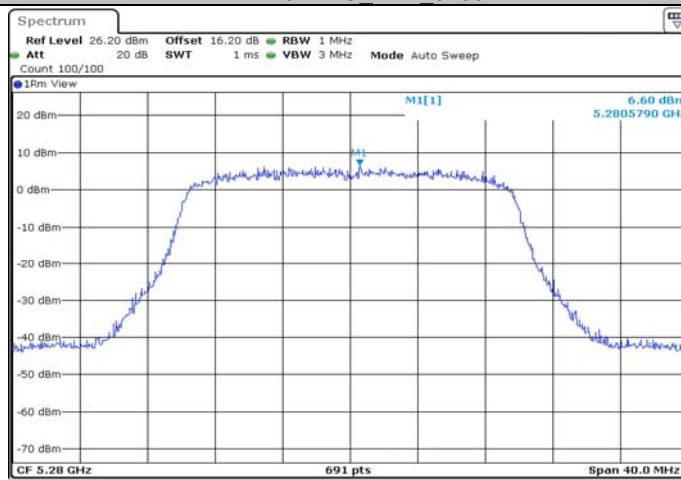
11AX20MIMO Ant2 5260



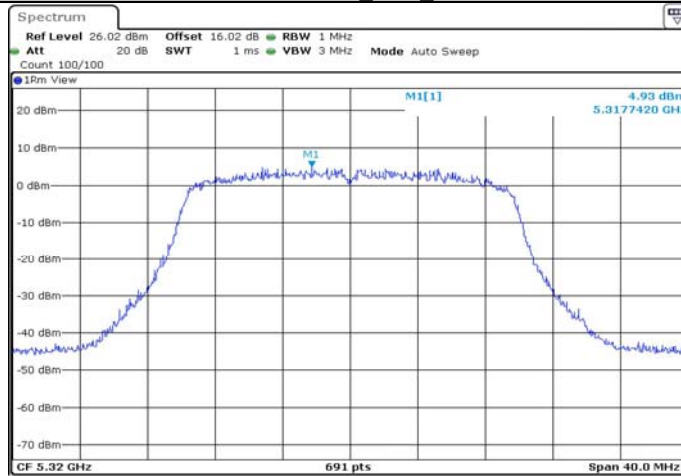
11AX20MIMO Ant1 5280



11AX20MIMO Ant2 5280

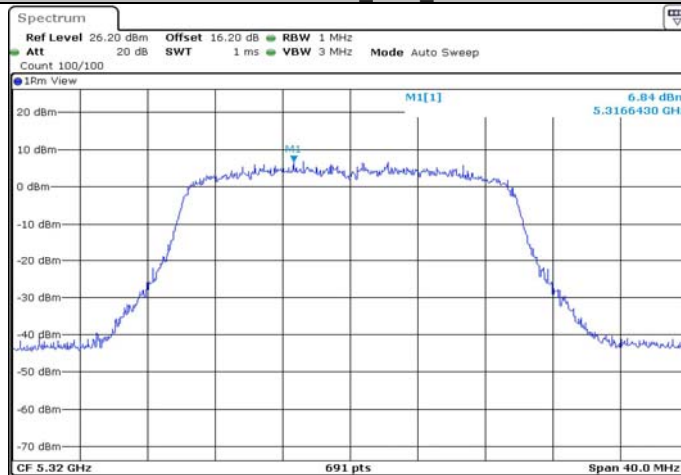


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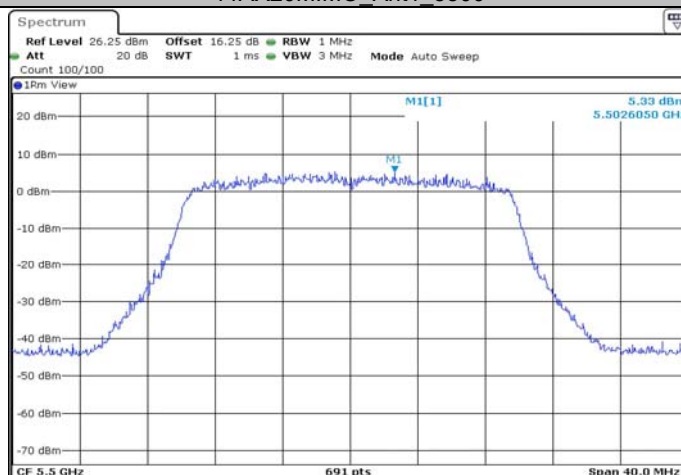
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11AX20MIMO Ant2_5320

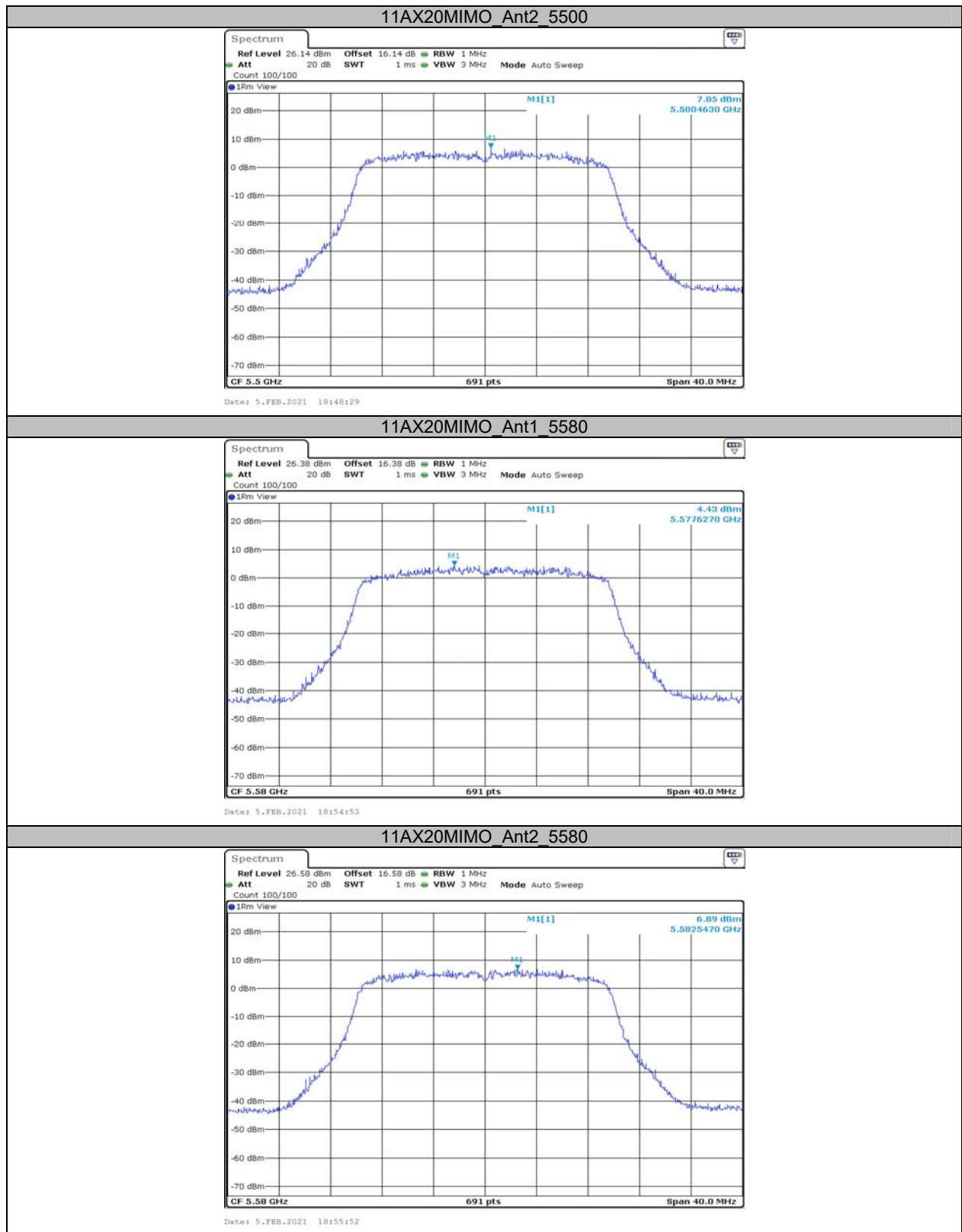


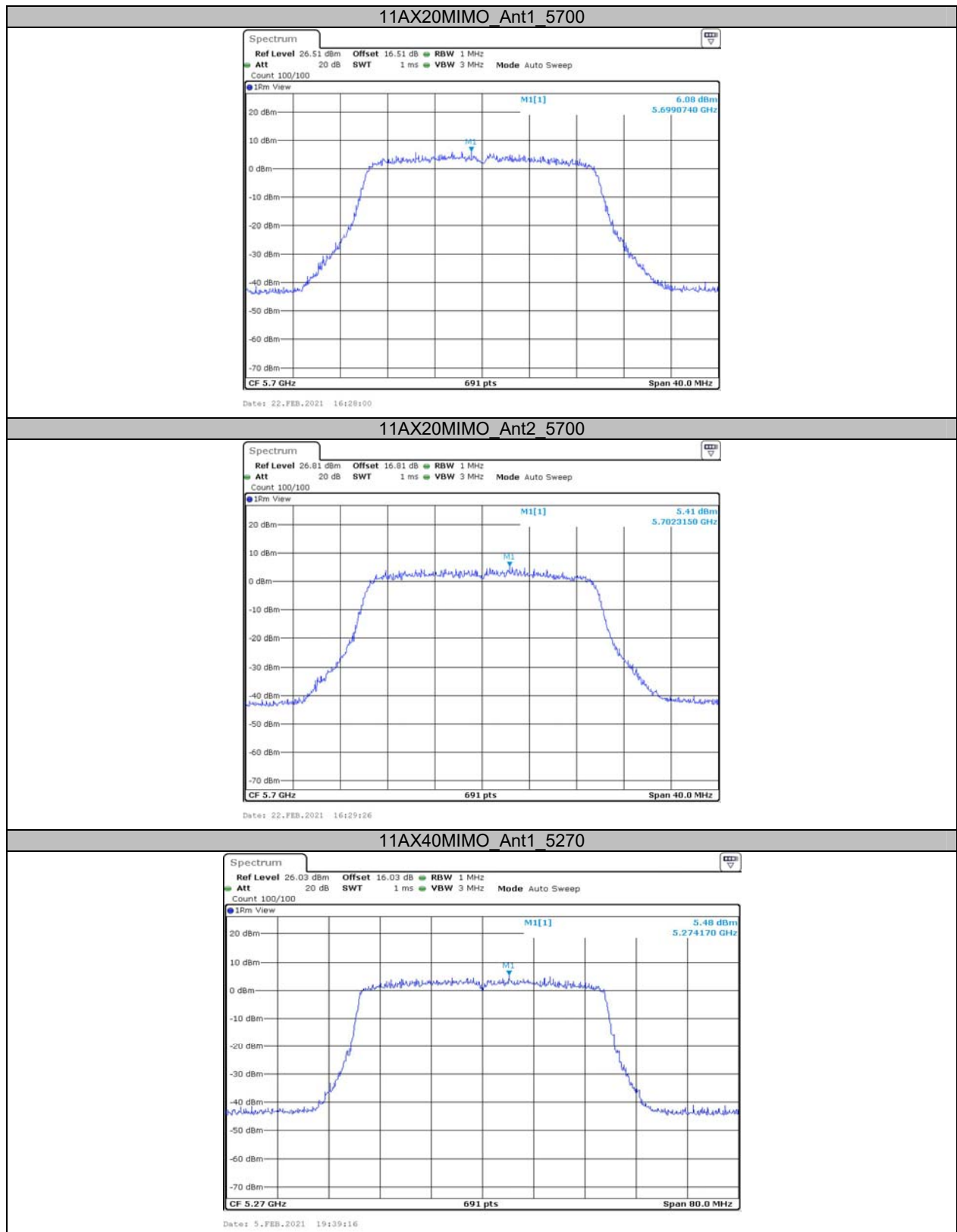
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11AX20MIMO Ant1_5500

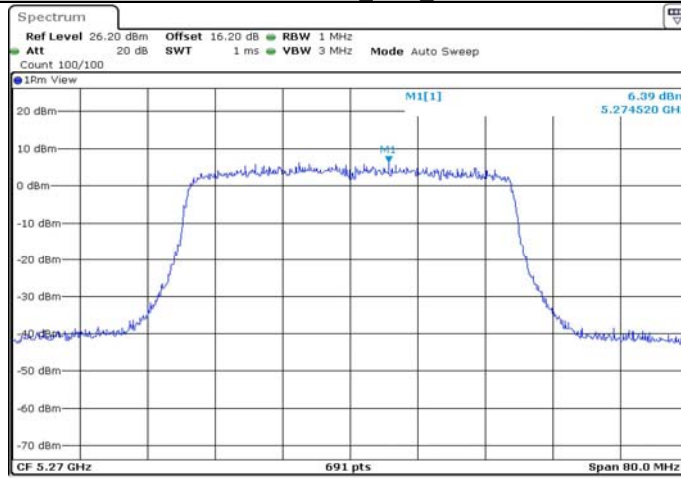


Date: 5.FEB.2021 18:48:21



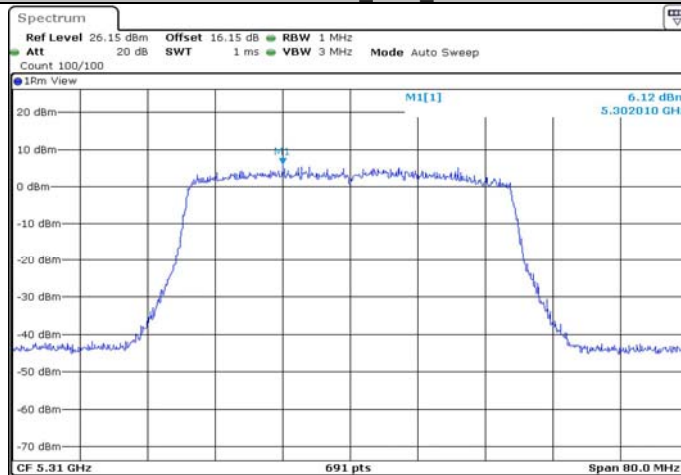


11AX40MIMO Ant2_5270



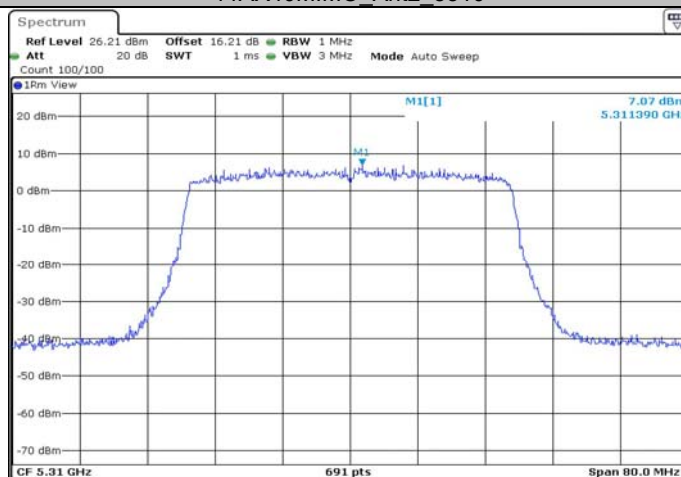
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11AX40MIMO Ant1_5310

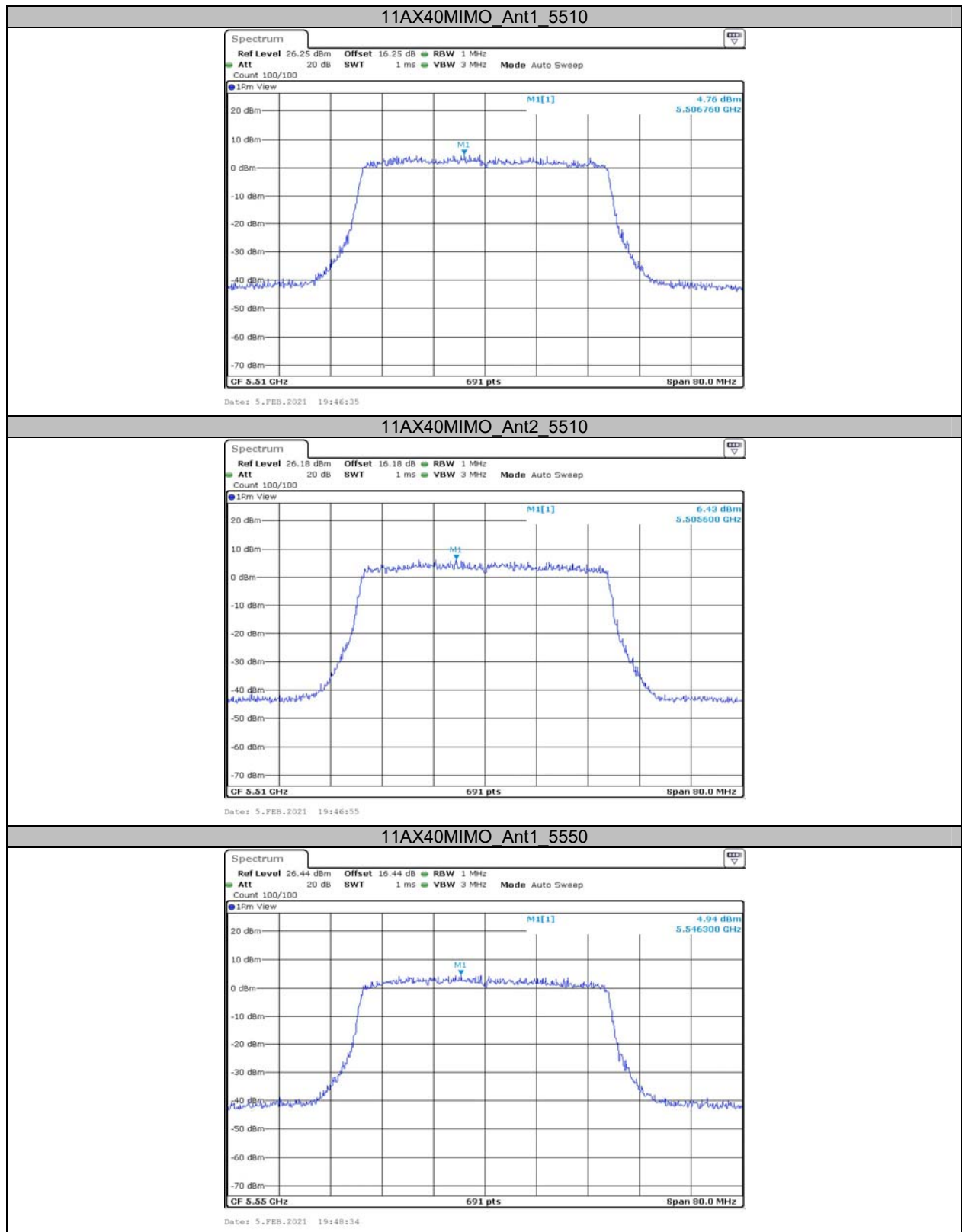


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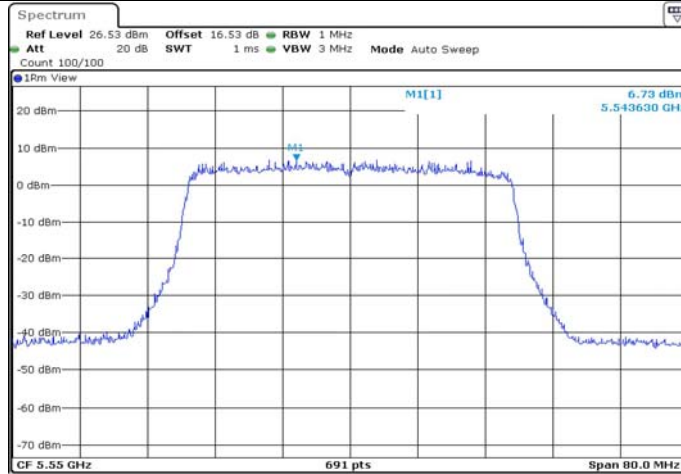
11AX40MIMO Ant2_5310



Date: 5.FEB.2021 19:44:04

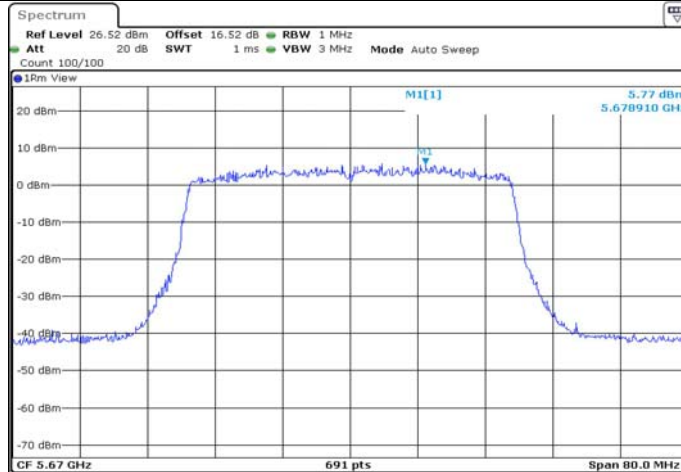


11AX40MIMO Ant2_5550



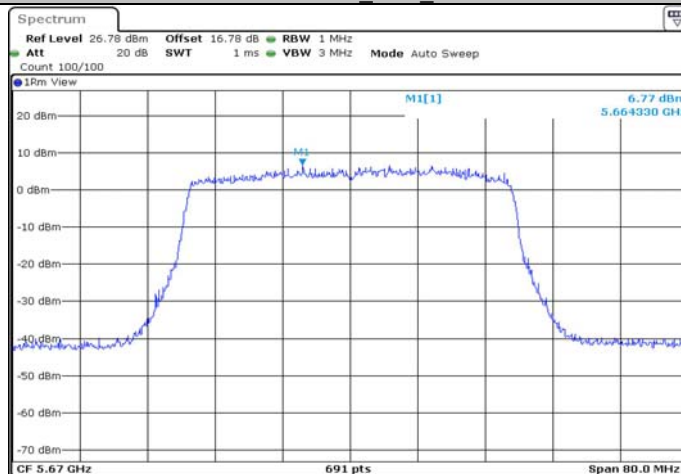
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11AX40MIMO Ant1_5670



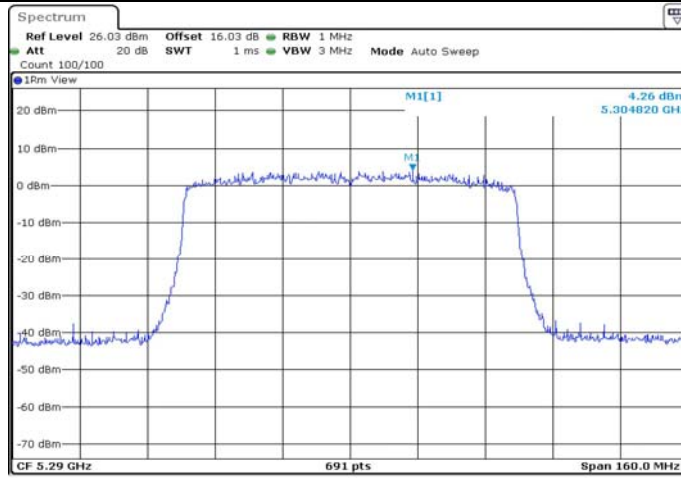
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11AX40MIMO Ant2_5670

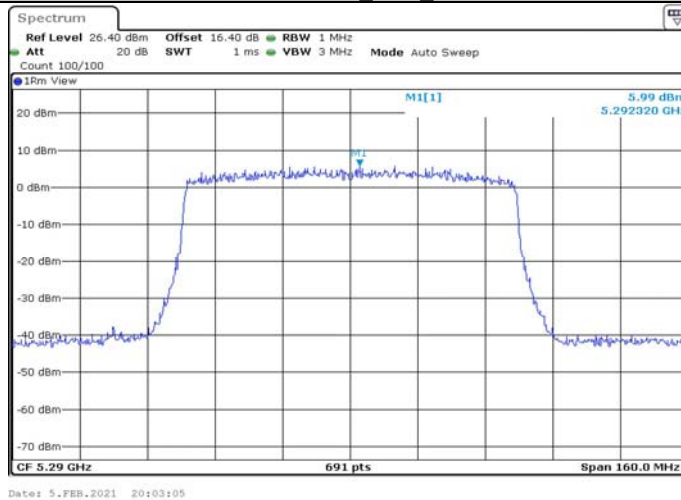


Date: 22.FEB.2021 16:35:53

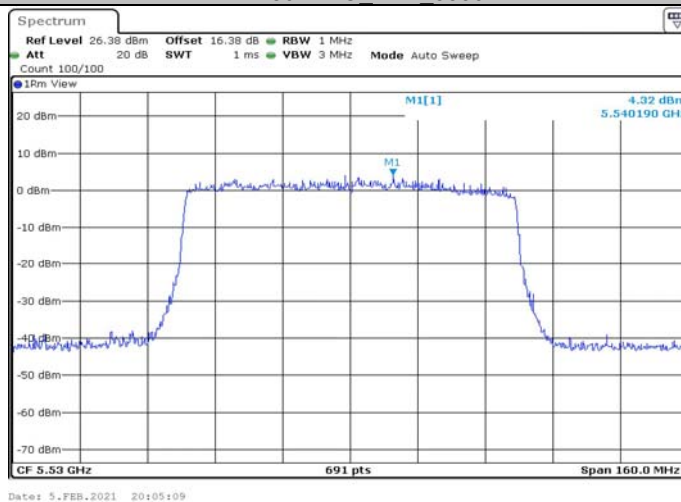
11AX80MIMO Ant1 5290

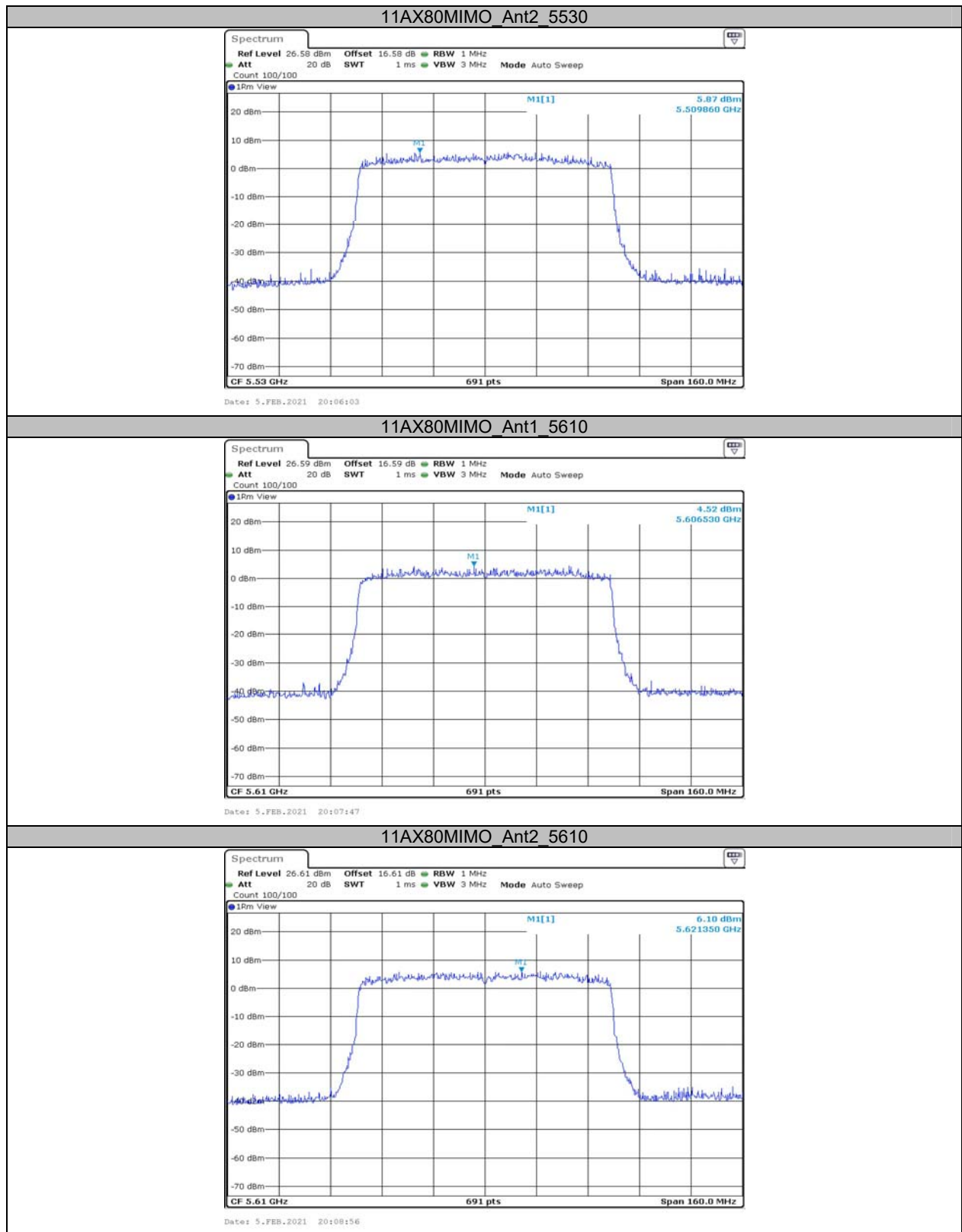


11AX80MIMO Ant2 5290



11AX80MIMO Ant1 5530



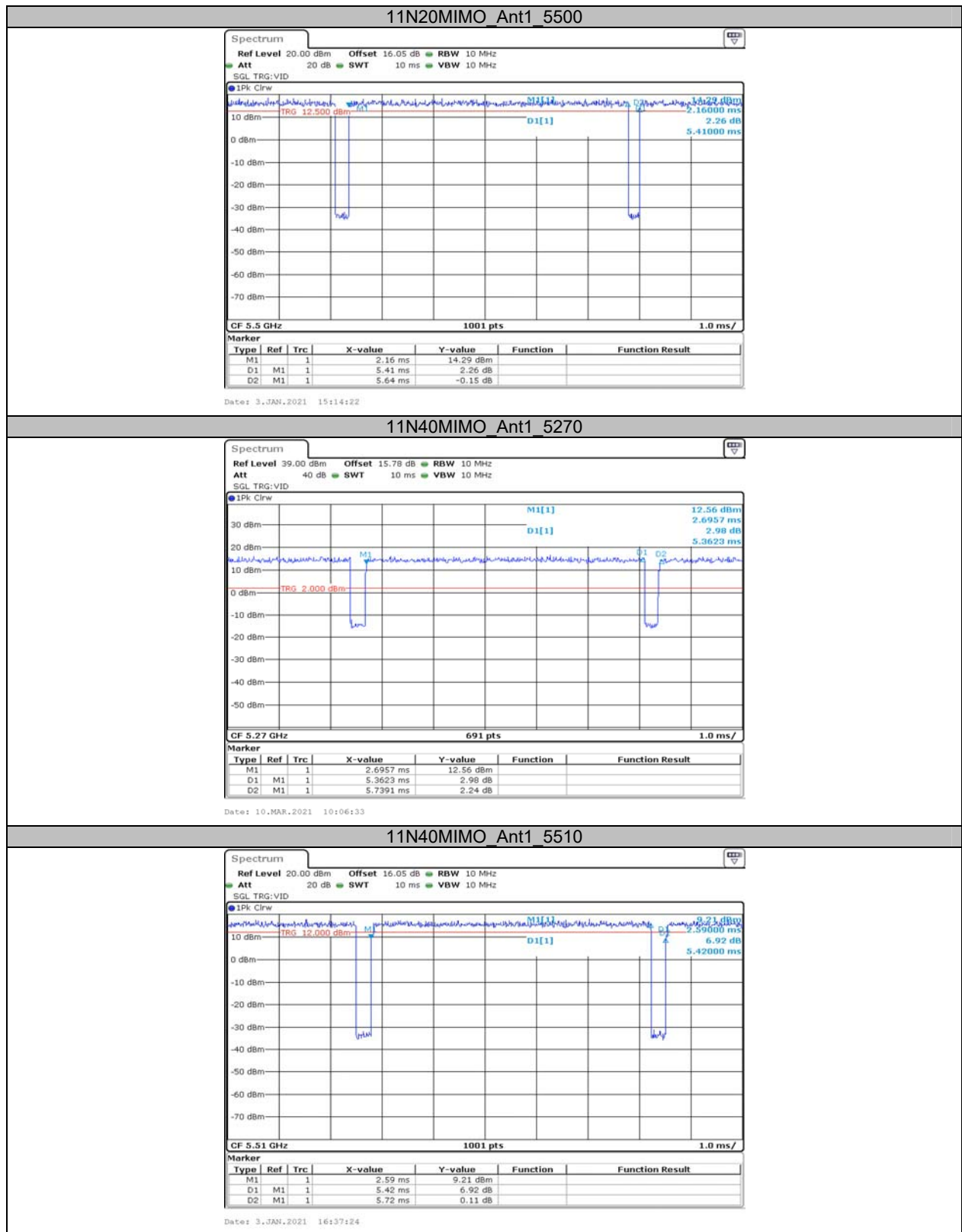


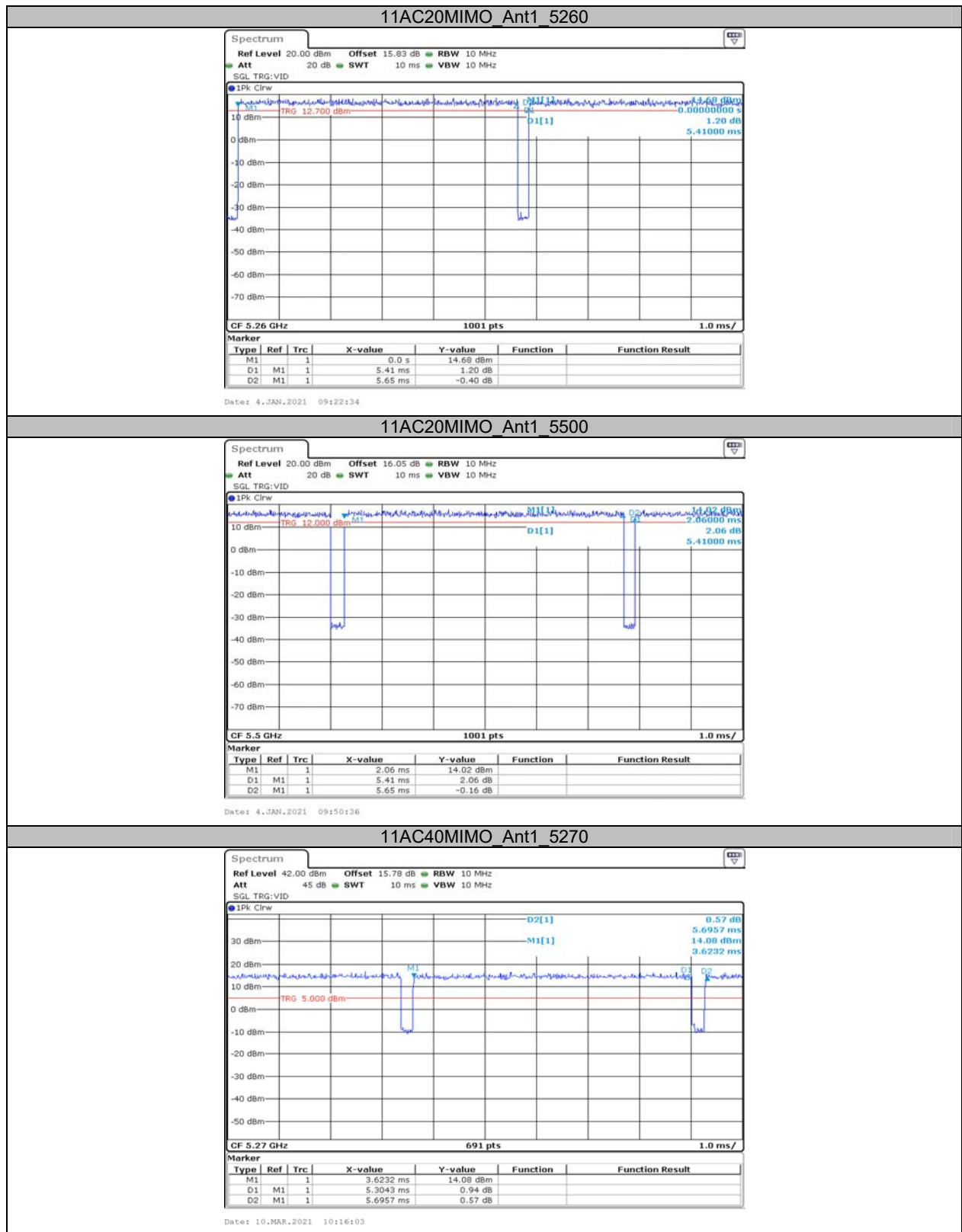
**Appendix D: Duty Cycle
Test Result**

TestMode	Antenna	Channel	TransmissionDuration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A CDD	Ant1	5260	1.96	2.10	93.33
	Ant1	5500	1.96	2.10	93.33
11N20MIMO	Ant1	5260	5.40	5.70	94.74
	Ant1	5500	5.41	5.64	95.92
11N40MIMO	Ant1	5270	5.36	5.74	93.38
	Ant1	5510	5.42	5.72	94.76
11AC20MIMO	Ant1	5260	5.41	5.65	95.75
	Ant1	5500	5.41	5.65	95.75
11AC40MIMO	Ant1	5270	5.30	5.70	92.98
	Ant1	5510	5.35	5.71	93.70
11AC80MIMO	Ant1	5290	5.41	5.68	95.25
	Ant1	5530	5.40	5.69	94.90
11AX20MIMO	Ant1	5260	5.43	5.69	95.43
	Ant1	5500	5.41	5.67	95.41
11AX40MIMO	Ant1	5270	5.43	5.69	95.43
	Ant1	5510	5.42	5.68	95.42
11AX80MIMO	Ant1	5290	5.43	5.68	95.60
	Ant1	5530	5.40	5.69	94.90

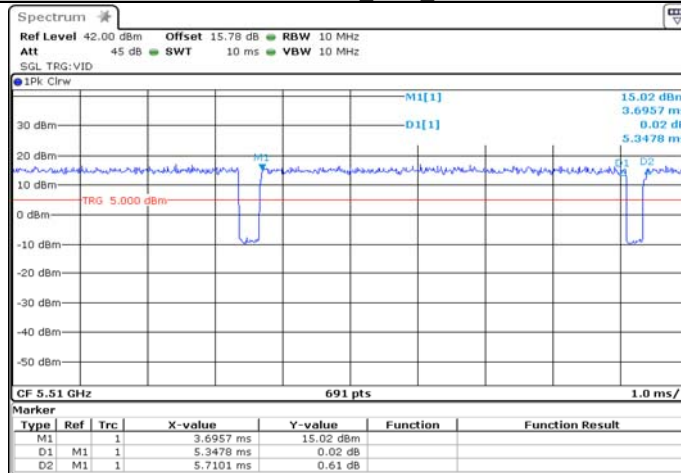
Test Graphs





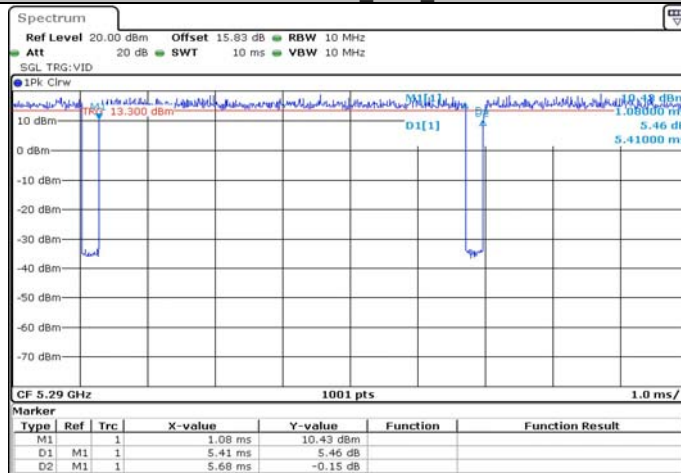


11AC40MIMO Ant1 5510



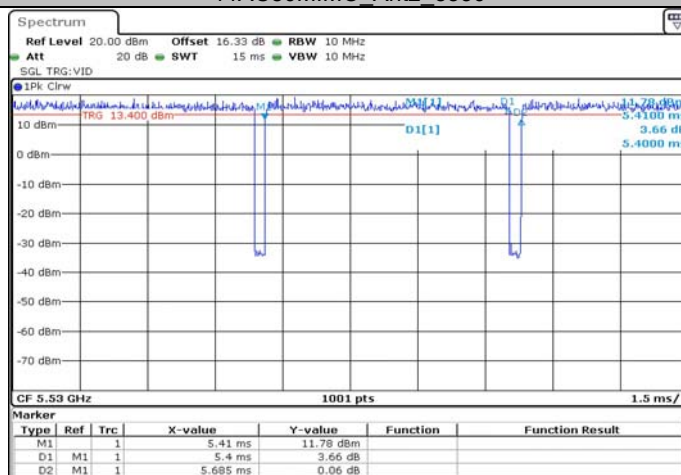
Date: 10.MAR.2021 10:17:12

11AC80MIMO Ant1 5290



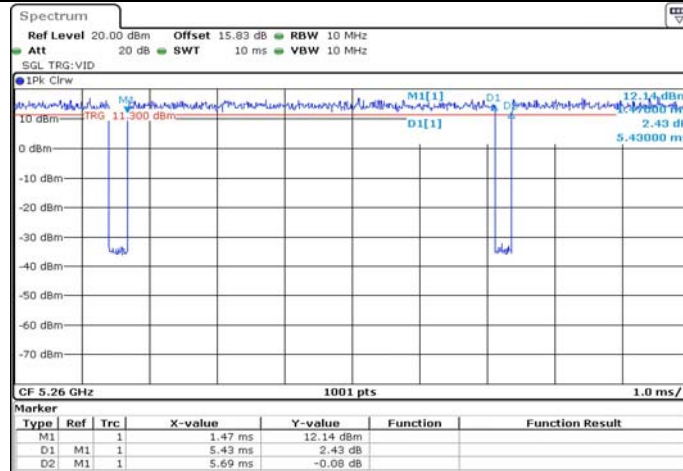
Date: 4.JAN.2021 14:14:10

11AC80MIMO Ant2 5530

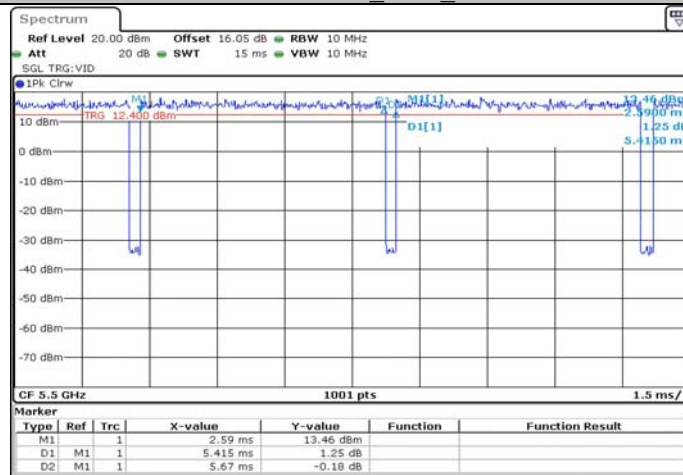


Date: 4.JAN.2021 14:17:43

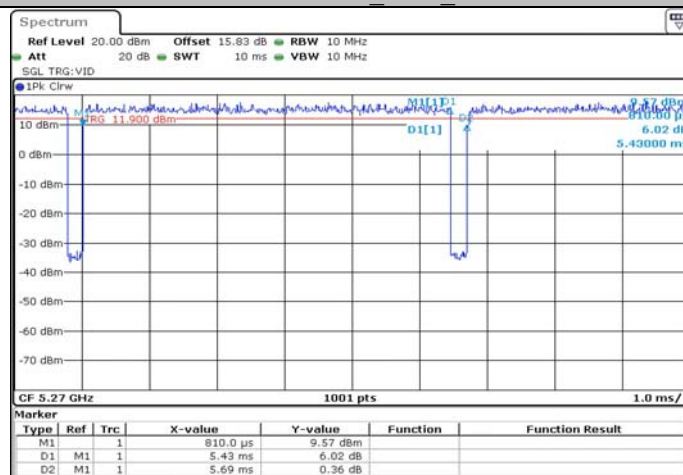
11AX20MIMO_Ant1_5260



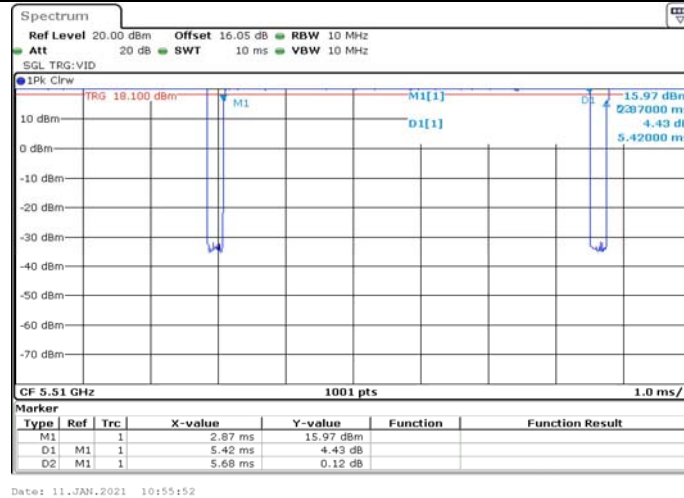
11AX20MIMO_Ant1_5500



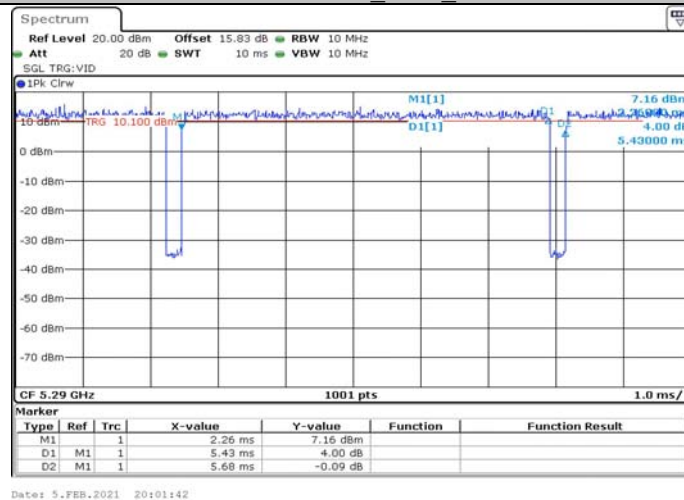
11AX40MIMO_Ant1_5270



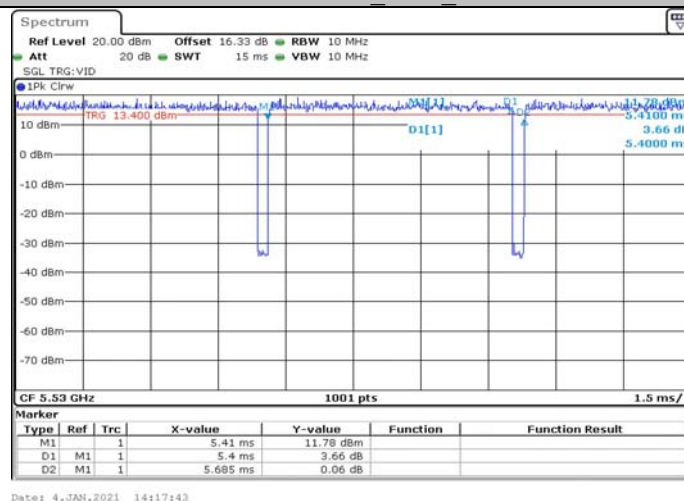
11AX40MIMO_Ant1_5510



11AX80MIMO_Ant1_5290



11AX80MIMO_Ant1_5530



***** END OF REPORT *****