

Appendix E): Power Spectral Density

Result Table:

Test Mode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	5.71	<=11	PASS
	Ant2	5180	5.93	<=11	PASS
	Ant1	5200	6.33	<=11	PASS
	Ant2	5200	5.63	<=11	PASS
	Ant1	5240	5.56	<=11	PASS
	Ant2	5240	5.55	<=11	PASS
	Ant1	5260	5.28	<=11	PASS
	Ant2	5260	5.62	<=11	PASS
	Ant1	5280	5.82	<=11	PASS
	Ant2	5280	6.03	<=11	PASS
	Ant1	5320	6.01	<=11	PASS
	Ant2	5320	5.59	<=11	PASS
	Ant1	5500	5.79	<=11	PASS
	Ant2	5500	5.79	<=11	PASS
	Ant1	5580	5.77	<=11	PASS
	Ant2	5580	6.11	<=11	PASS
	Ant1	5700	6.89	<=11	PASS
	Ant2	5700	6.76	<=11	PASS
	Ant1	5745	5.89	<=30	PASS
	Ant2	5745	6.02	<=30	PASS
	Ant1	5785	5.23	<=30	PASS
	Ant2	5785	5.46	<=30	PASS
	Ant1	5825	4.69	<=30	PASS
	Ant2	5825	4.57	<=30	PASS
11N20SISO	Ant1	5180	6.79	<=11	PASS
	Ant2	5180	6.55	<=11	PASS
	Ant1	5200	6.65	<=11	PASS
	Ant2	5200	5.48	<=11	PASS
	Ant1	5240	5.87	<=11	PASS
	Ant2	5240	5.57	<=11	PASS
	Ant1	5260	5.34	<=11	PASS
	Ant2	5260	5.73	<=11	PASS

	Ant1	5280	6.51	<=11	PASS
	Ant2	5280	6.15	<=11	PASS
	Ant1	5320	6.39	<=11	PASS
	Ant2	5320	5.76	<=11	PASS
	Ant1	5500	5.8	<=11	PASS
	Ant2	5500	6.04	<=11	PASS
	Ant1	5580	6.43	<=11	PASS
	Ant2	5580	6.22	<=11	PASS
	Ant1	5700	6.97	<=11	PASS
	Ant2	5700	6.51	<=11	PASS
	Ant1	5745	5.7	<=30	PASS
	Ant2	5745	6.36	<=30	PASS
	Ant1	5785	5.55	<=30	PASS
	Ant2	5785	5.39	<=30	PASS
	Ant1	5825	4.59	<=30	PASS
	Ant2	5825	5.01	<=30	PASS
11N40SISO	Ant1	5190	3.69	<=11	PASS
	Ant2	5190	2.81	<=11	PASS
	Ant1	5230	3.47	<=11	PASS
	Ant2	5230	1.95	<=11	PASS
	Ant1	5270	4.38	<=11	PASS
	Ant2	5270	3.77	<=11	PASS
	Ant1	5310	4.87	<=11	PASS
	Ant2	5310	3.42	<=11	PASS
	Ant1	5510	4.77	<=11	PASS
	Ant2	5510	3.9	<=11	PASS
	Ant1	5550	4.54	<=11	PASS
	Ant2	5550	2.45	<=11	PASS
	Ant1	5670	4.91	<=11	PASS
	Ant2	5670	5	<=11	PASS
	Ant1	5755	4.1	<=30	PASS
	Ant2	5755	3.55	<=30	PASS
	Ant1	5795	3.8	<=30	PASS
	Ant2	5795	4.06	<=30	PASS
11AC20SISO	Ant1	5180	6.21	<=11	PASS
	Ant2	5180	6.75	<=11	PASS

	Ant1	5200	6.83	<=11	PASS
	Ant2	5200	5.73	<=11	PASS
	Ant1	5240	6.15	<=11	PASS
	Ant2	5240	5.91	<=11	PASS
	Ant1	5260	6.31	<=11	PASS
	Ant2	5260	5.96	<=11	PASS
	Ant1	5280	6.54	<=11	PASS
	Ant2	5280	6.37	<=11	PASS
	Ant1	5320	6.27	<=11	PASS
	Ant2	5320	5.77	<=11	PASS
	Ant1	5500	6.84	<=11	PASS
	Ant2	5500	6.36	<=11	PASS
	Ant1	5580	6.48	<=11	PASS
	Ant2	5580	6.04	<=11	PASS
	Ant1	5700	7.37	<=11	PASS
	Ant2	5700	7.01	<=11	PASS
	Ant1	5745	5.73	<=30	PASS
	Ant2	5745	7.25	<=30	PASS
	Ant1	5785	5.81	<=30	PASS
	Ant2	5785	6.57	<=30	PASS
	Ant1	5825	4.86	<=30	PASS
	Ant2	5825	5.12	<=30	PASS
11AC40SISO	Ant1	5190	3.6	<=11	PASS
	Ant2	5190	3.29	<=11	PASS
	Ant1	5230	3.52	<=11	PASS
	Ant2	5230	2.53	<=11	PASS
	Ant1	5270	3.44	<=11	PASS
	Ant2	5270	3.71	<=11	PASS
	Ant1	5310	5.11	<=11	PASS
	Ant2	5310	3.81	<=11	PASS
	Ant1	5510	4.03	<=11	PASS
	Ant2	5510	3.91	<=11	PASS
	Ant1	5550	3.95	<=11	PASS
	Ant2	5550	2.88	<=11	PASS
	Ant1	5670	4.96	<=11	PASS
	Ant2	5670	5.38	<=11	PASS

	Ant1	5755	3.57	<=30	PASS
	Ant2	5755	4.1	<=30	PASS
	Ant1	5795	3.1	<=30	PASS
	Ant2	5795	3.52	<=30	PASS
11AC80SISO	Ant1	5210	-0.48	<=11	PASS
	Ant2	5210	-0.75	<=11	PASS
	Ant1	5290	0.53	<=11	PASS
	Ant2	5290	0.27	<=11	PASS
	Ant1	5530	1.11	<=11	PASS
	Ant2	5530	-0.35	<=11	PASS
	Ant1	5610	0.96	<=11	PASS
	Ant2	5610	-0.05	<=11	PASS
	Ant1	5775	0.08	<=30	PASS
	Ant2	5775	-0.1	<=30	PASS
	Ant1	5180	6.16	<=11	PASS
	Ant2	5180	8.54	<=11	PASS
11N20MIMO	total	5180	10.52	<=11	PASS
	Ant1	5200	6.71	<=11	PASS
	Ant2	5200	7.66	<=11	PASS
	total	5200	10.22	<=11	PASS
	Ant1	5240	5.92	<=11	PASS
	Ant2	5240	7.04	<=11	PASS
	total	5240	9.53	<=11	PASS
	Ant1	5260	6.48	<=11	PASS
	Ant2	5260	7.58	<=11	PASS
	total	5260	10.08	<=11	PASS
	Ant1	5280	6.47	<=11	PASS
	Ant2	5280	8.1	<=11	PASS
	total	5280	10.37	<=11	PASS
	Ant1	5320	6.58	<=11	PASS
	Ant2	5320	7.63	<=11	PASS
	total	5320	10.15	<=11	PASS
	Ant1	5500	6.47	<=11	PASS
	Ant2	5500	7.68	<=11	PASS
	total	5500	10.13	<=11	PASS
	Ant1	5580	6.32	<=11	PASS

	Ant2	5580	7.72	<=11	PASS
	total	5580	10.09	<=11	PASS
	Ant1	5700	7.15	<=11	PASS
	Ant2	5700	8.41	<=11	PASS
	total	5700	10.84	<=11	PASS
	Ant1	5745	5.88	<=30	PASS
	Ant2	5745	7.5	<=30	PASS
	total	5745	9.78	<=30	PASS
	Ant1	5785	5.21	<=30	PASS
	Ant2	5785	6.58	<=30	PASS
	total	5785	8.96	<=30	PASS
	Ant1	5825	4.59	<=30	PASS
	Ant2	5825	5.94	<=30	PASS
	total	5825	8.33	<=30	PASS
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	Ant2	5190	1.28	<=11	PASS
	total	5190	3.41	<=11	PASS
	Ant1	5230	3.2	<=11	PASS
	Ant2	5230	3.23	<=11	PASS
	total	5230	6.23	<=11	PASS
	Ant1	5270	3.64	<=11	PASS
	Ant2	5270	4.88	<=11	PASS
	total	5270	7.31	<=11	PASS
	Ant1	5310	4.24	<=11	PASS
	Ant2	5310	4.88	<=11	PASS
	total	5310	7.58	<=11	PASS
	Ant1	5510	1.74	<=11	PASS
	Ant2	5510	3.34	<=11	PASS
	total	5510	5.62	<=11	PASS
	Ant1	5550	3.5	<=11	PASS
	Ant2	5550	3.91	<=11	PASS
	total	5550	6.72	<=11	PASS
	Ant1	5670	4.98	<=11	PASS
	Ant2	5670	5.94	<=11	PASS
	total	5670	8.50	<=11	PASS
	Ant1	5755	3.1	<=30	PASS

	Ant2	5755	5.17	<=30	PASS
	total	5755	7.27	<=30	PASS
	Ant1	5795	2.52	<=30	PASS
	Ant2	5795	4.37	<=30	PASS
	total	5795	6.55	<=30	PASS
11AC20MIMO	Ant1	5180	5.83	<=11	PASS
	Ant2	5180	7.93	<=11	PASS
	total	5180	10.02	<=11	PASS
	Ant1	5200	6.98	<=11	PASS
	Ant2	5200	7.02	<=11	PASS
	total	5200	10.01	<=11	PASS
	Ant1	5240	5.69	<=11	PASS
	Ant2	5240	7.28	<=11	PASS
	total	5240	9.57	<=11	PASS
	Ant1	5260	5.11	<=11	PASS
	Ant2	5260	7.51	<=11	PASS
	total	5260	9.48	<=11	PASS
	Ant1	5280	7.78	<=11	PASS
	Ant2	5280	7.71	<=11	PASS
	total	5280	10.76	<=11	PASS
	Ant1	5320	5.4	<=11	PASS
	Ant2	5320	6.97	<=11	PASS
	total	5320	9.27	<=11	PASS
	Ant1	5500	5.98	<=11	PASS
	Ant2	5500	7.84	<=11	PASS
	total	5500	10.02	<=11	PASS
	Ant1	5580	5.8	<=11	PASS
	Ant2	5580	8.12	<=11	PASS
	total	5580	10.12	<=11	PASS
	Ant1	5700	6.47	<=11	PASS
	Ant2	5700	8.42	<=11	PASS
	total	5700	10.56	<=11	PASS
	Ant1	5745	5.77	<=30	PASS
	Ant2	5745	7.32	<=30	PASS
	total	5745	9.62	<=30	PASS
	Ant1	5785	4.79	<=30	PASS

	Ant2	5785	6.44	<=30	PASS
	total	5785	8.70	<=30	PASS
	Ant1	5825	4.45	<=30	PASS
	Ant2	5825	5.75	<=30	PASS
	total	5825	8.16	<=30	PASS
11AC40MIMO	Ant1	5190	-0.14	<=11	PASS
	Ant2	5190	1.47	<=11	PASS
	total	5190	3.75	<=11	PASS
	Ant1	5230	2.78	<=11	PASS
	Ant2	5230	3.48	<=11	PASS
	total	5230	6.15	<=11	PASS
	Ant1	5270	3.23	<=11	PASS
	Ant2	5270	5.53	<=11	PASS
	total	5270	7.54	<=11	PASS
	Ant1	5310	4.73	<=11	PASS
	Ant2	5310	4.86	<=11	PASS
	total	5310	7.81	<=11	PASS
	Ant1	5510	1.81	<=11	PASS
	Ant2	5510	3.04	<=11	PASS
	total	5510	5.48	<=11	PASS
	Ant1	5550	3.53	<=11	PASS
	Ant2	5550	3.87	<=11	PASS
	total	5550	6.71	<=11	PASS
	Ant1	5670	4.88	<=11	PASS
	Ant2	5670	6.52	<=11	PASS
	total	5670	8.79	<=11	PASS
	Ant1	5755	3.54	<=30	PASS
	Ant2	5755	5.36	<=30	PASS
	total	5755	7.55	<=30	PASS
	Ant1	5795	2.8	<=30	PASS
	Ant2	5795	4.67	<=30	PASS
	total	5795	6.85	<=30	PASS
11AC80MIMO	Ant1	5210	-2.58	<=11	PASS
	Ant2	5210	-1.25	<=11	PASS
	total	5210	1.15	<=11	PASS
	Ant1	5290	0.57	<=11	PASS

Ant2	5290	1.81	<=11	PASS
total	5290	4.24	<=11	PASS
Ant1	5530	-5.17	<=11	PASS
Ant2	5530	-3.12	<=11	PASS
total	5530	-1.01	<=11	PASS
Ant1	5610	0.86	<=11	PASS
Ant2	5610	1.77	<=11	PASS
total	5610	4.35	<=11	PASS
Ant1	5775	-0.05	<=30	PASS
Ant2	5775	1	<=30	PASS
total	5775	3.52	<=30	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.

Remark:

1.Total Power spectral density (dBm/MHz) = $10 \log[(10^{P1/10} + 10^{P2/10} + \dots + 10^{PN/10})]$

2. Directional gain = $10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / N_{ANT}]$ dBi= 3.81 dBi

Report No. : EED39N00008304

Test Graphs:



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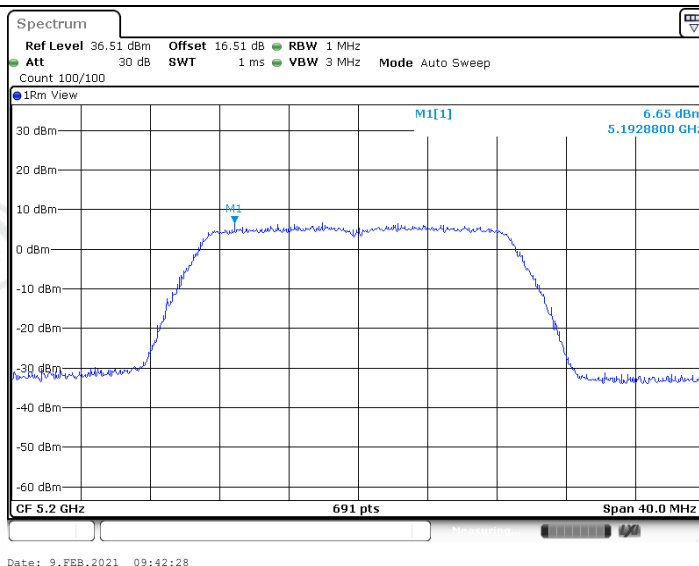




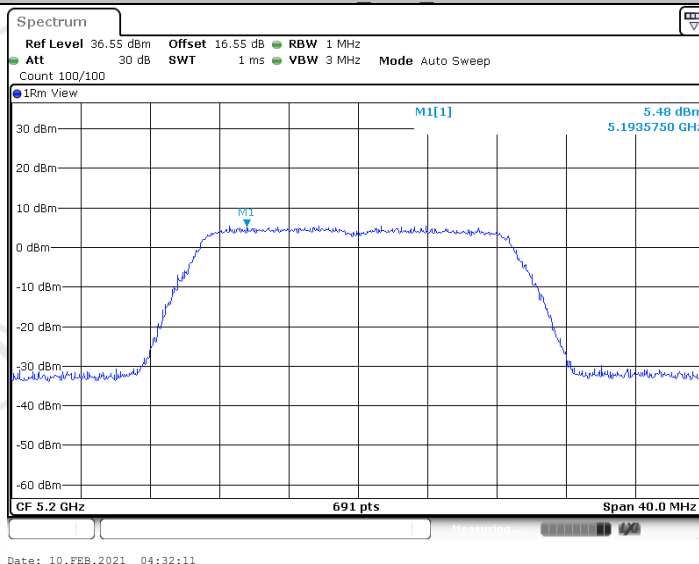
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11N20SISO Ant1 5200



11N20SISO Ant2 5200



Report No. : EED39N00008304



Report No. : EED39N00008304



Report No. : EED39N00008304



Report No. : EED39N00008304



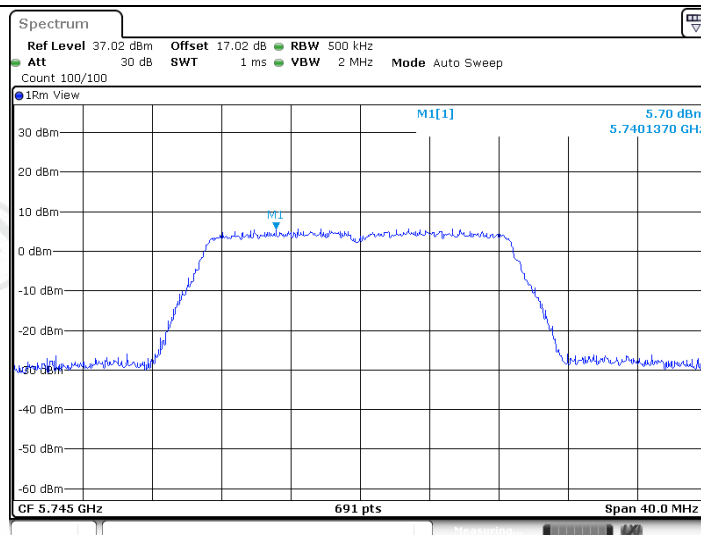
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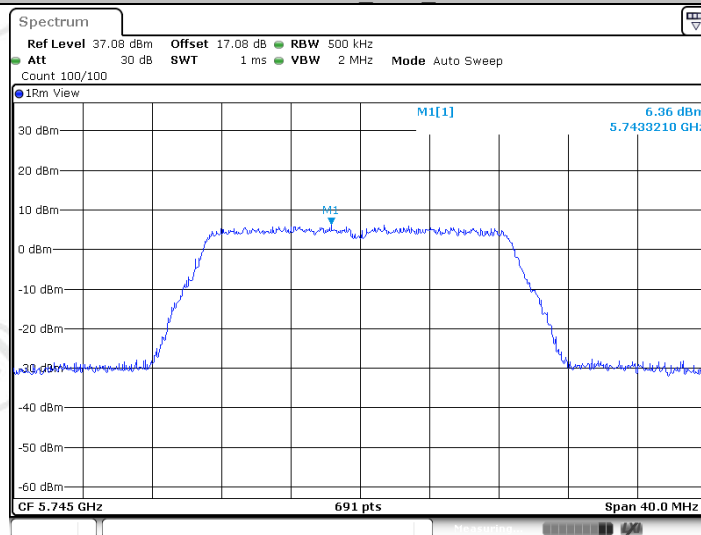


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11N20SISO Ant1 5745



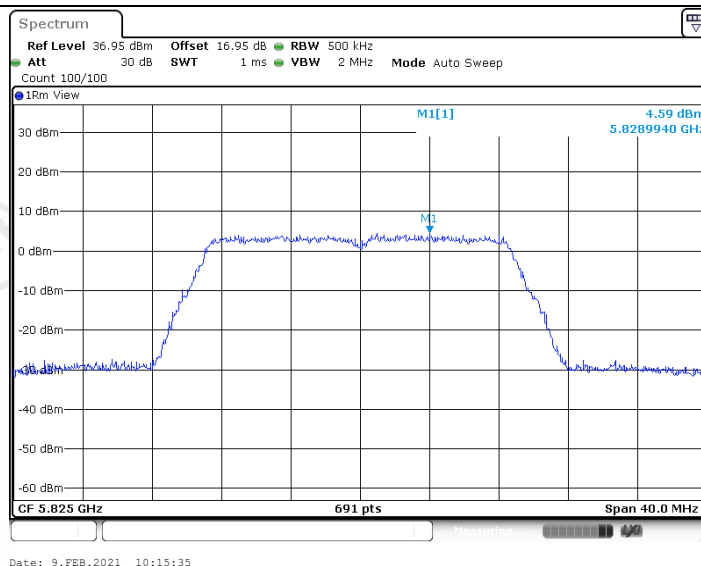
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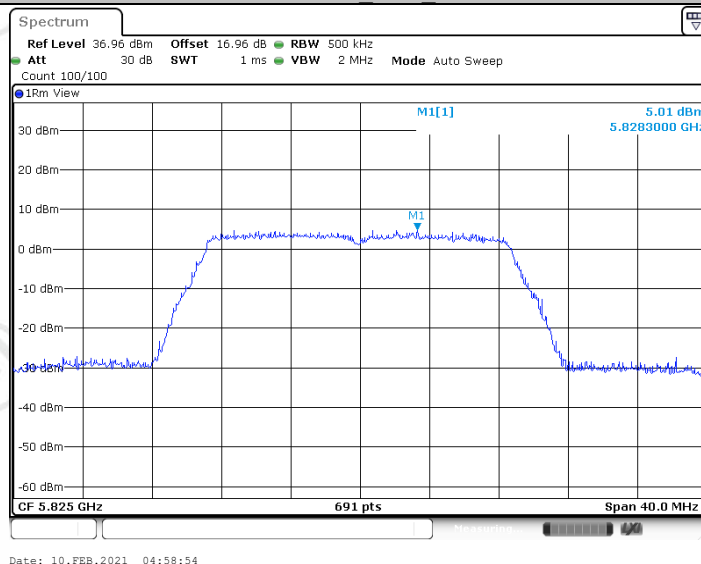
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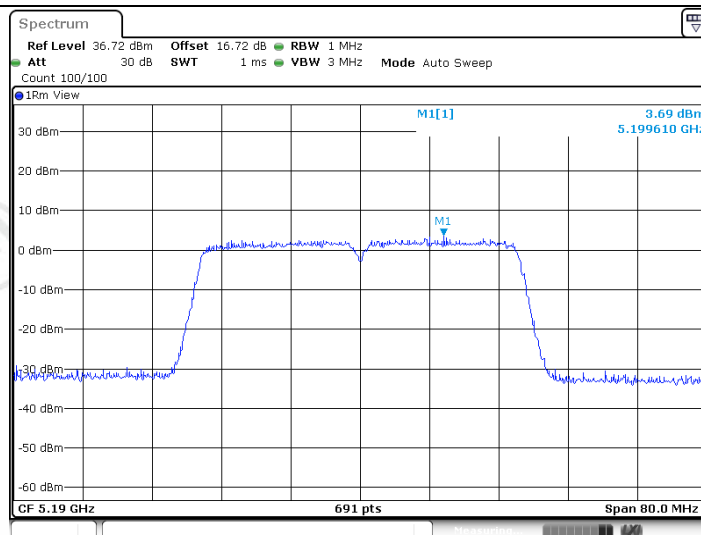


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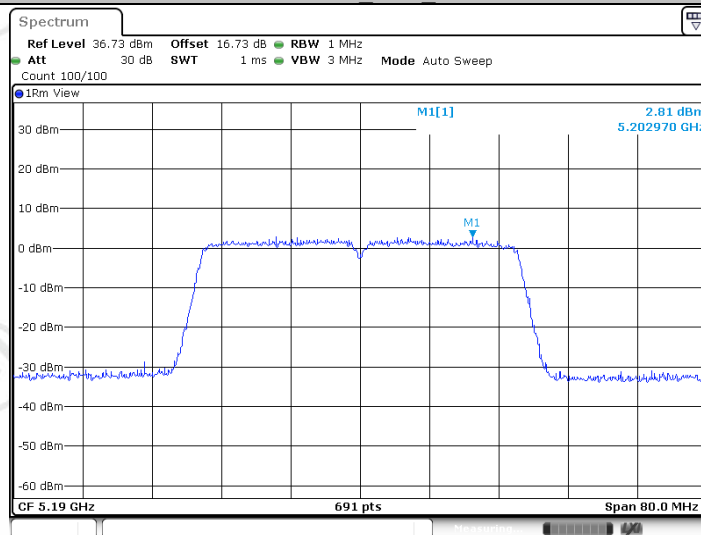
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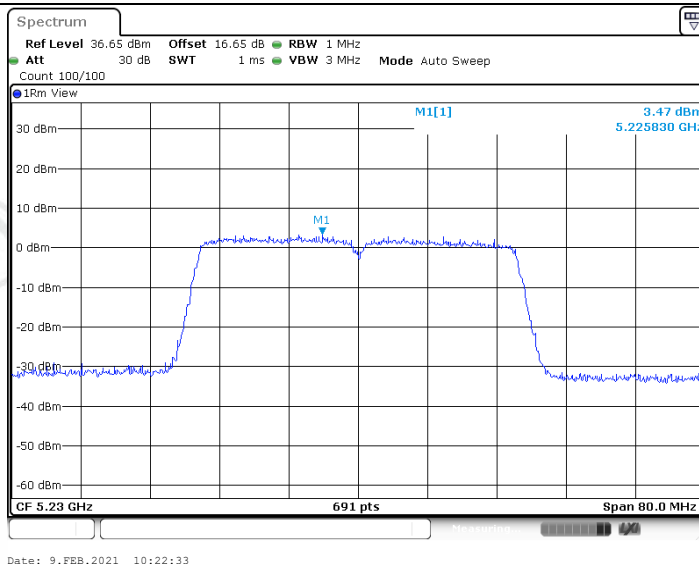
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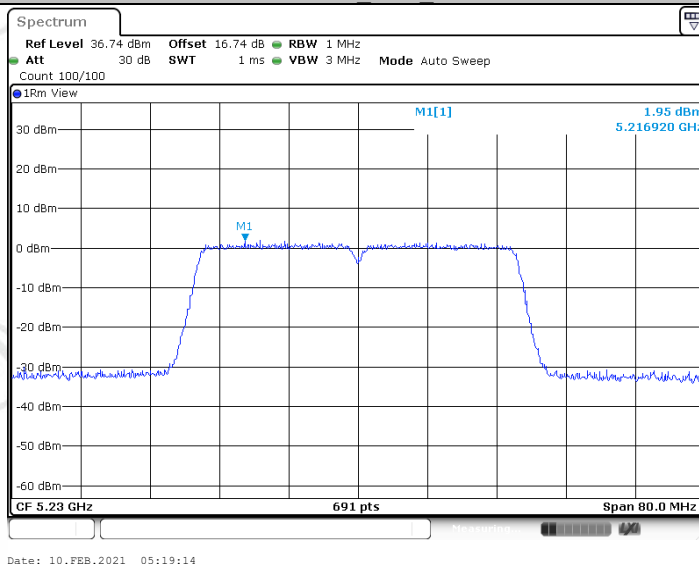
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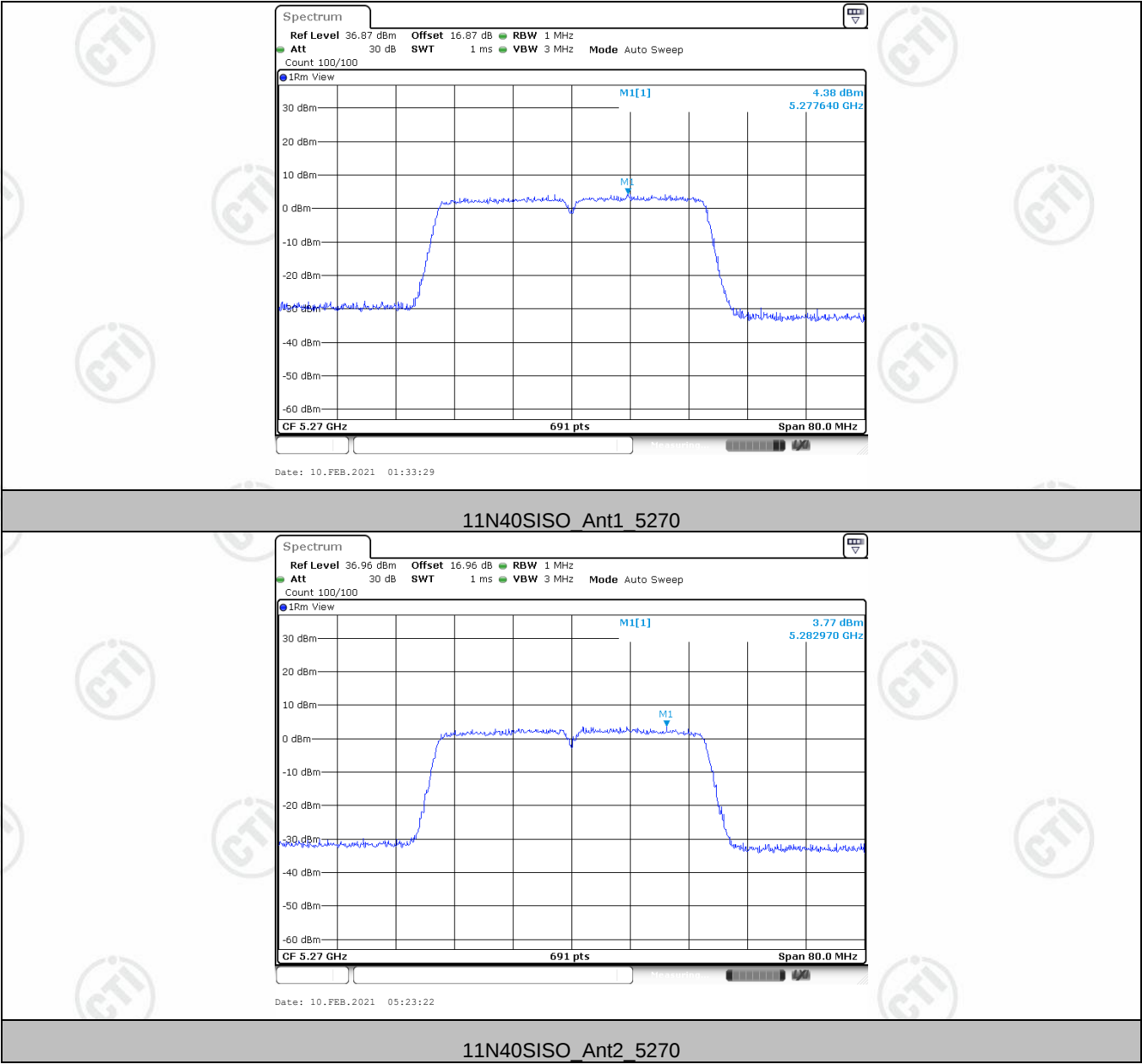


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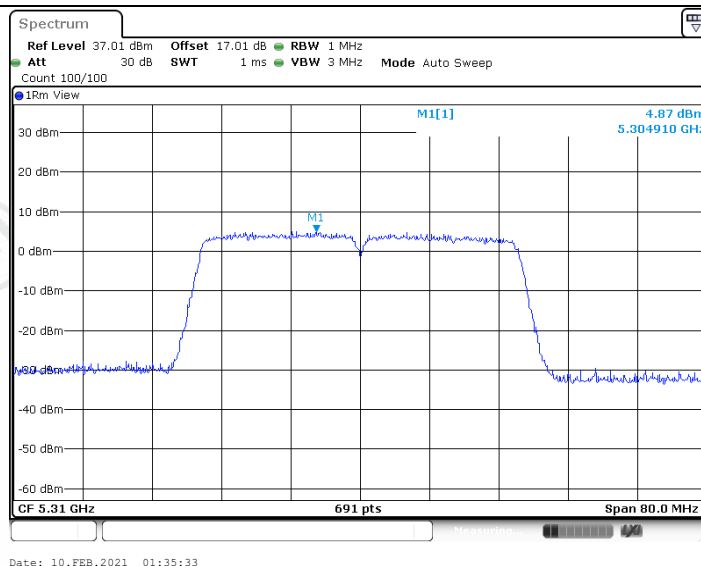


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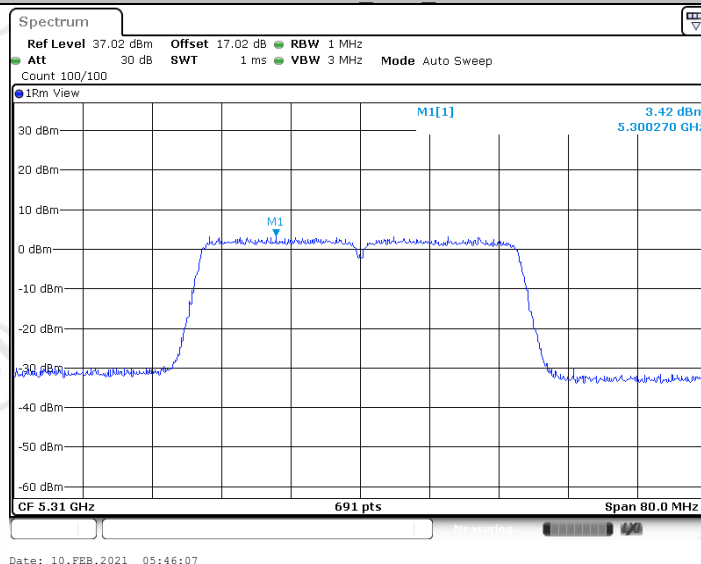
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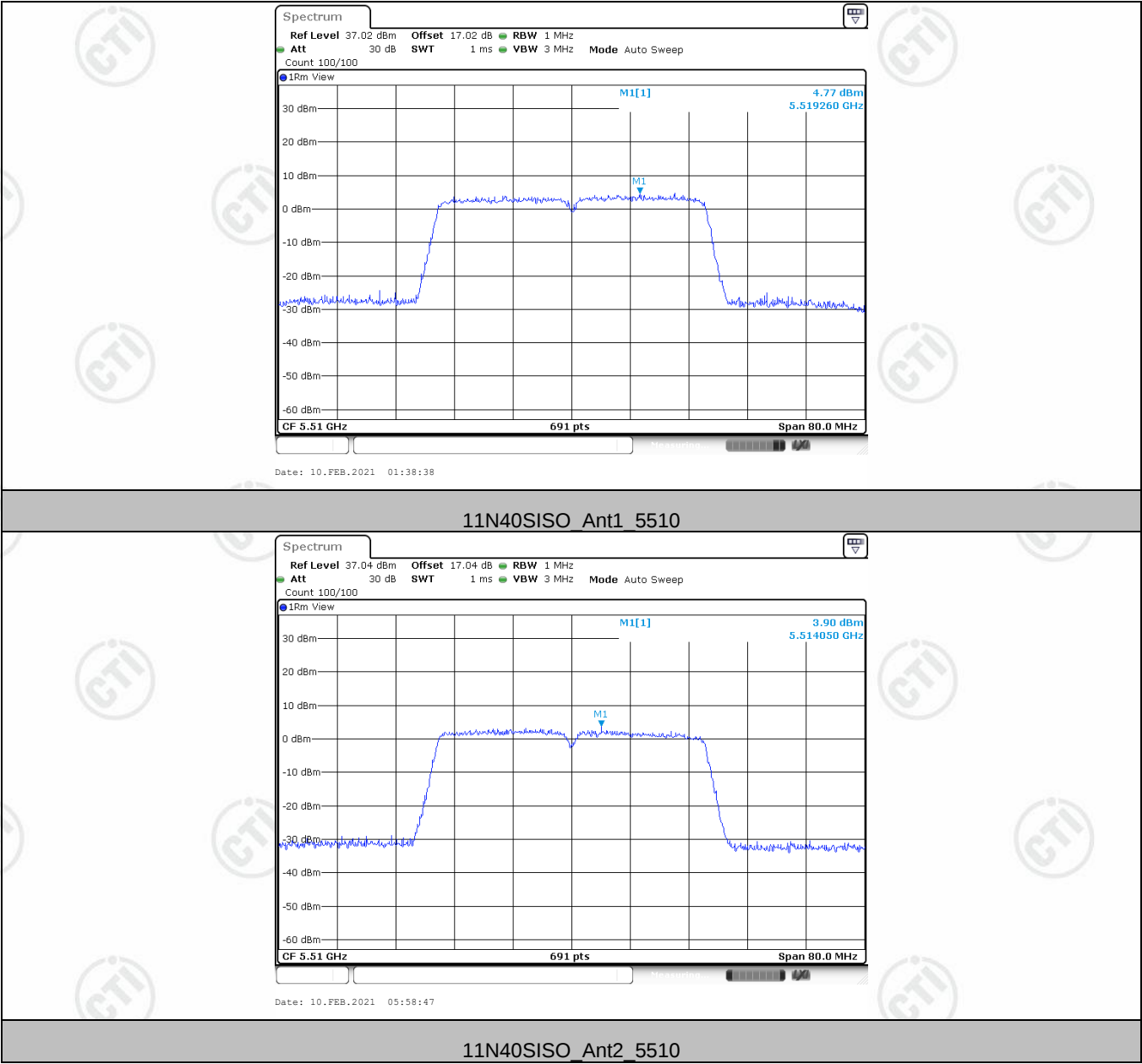


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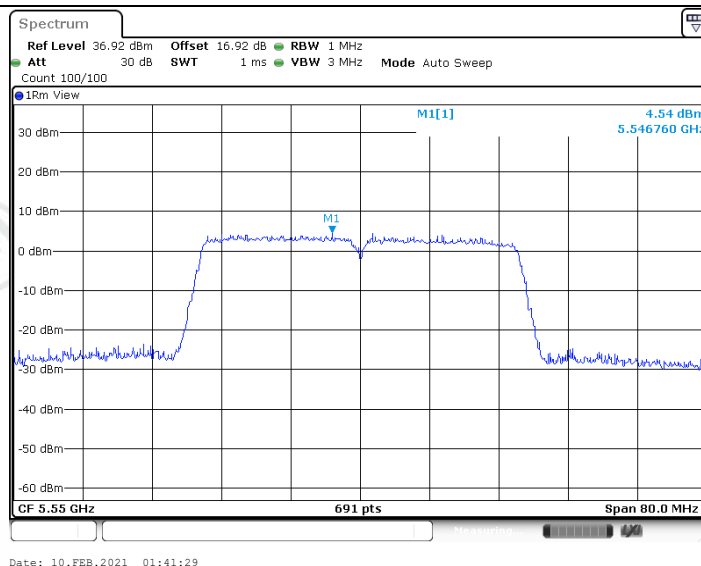


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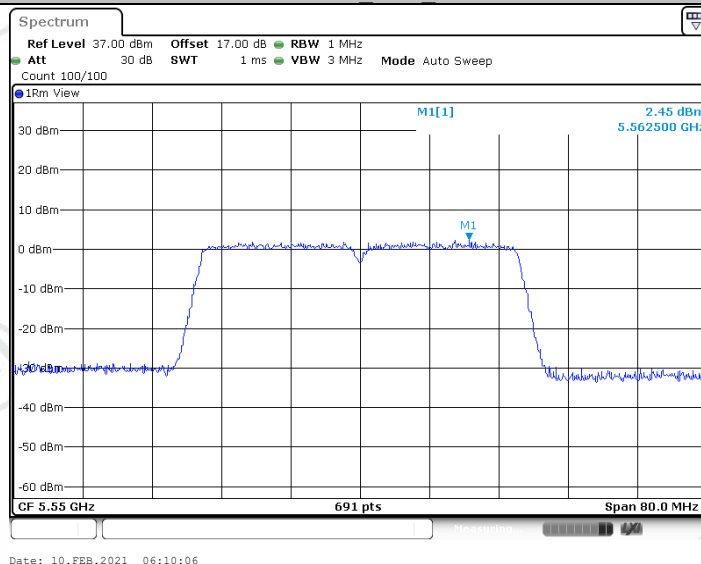
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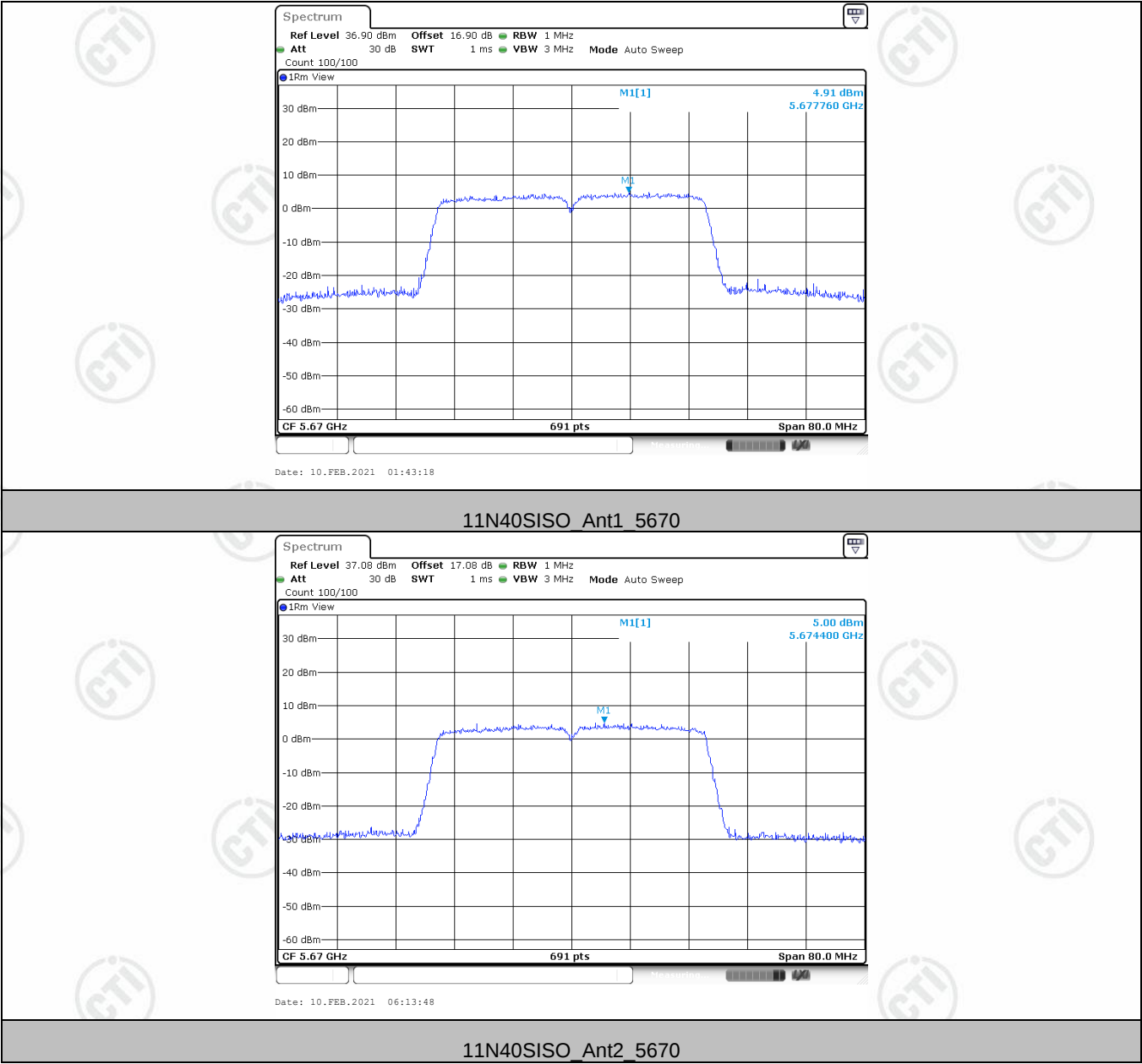


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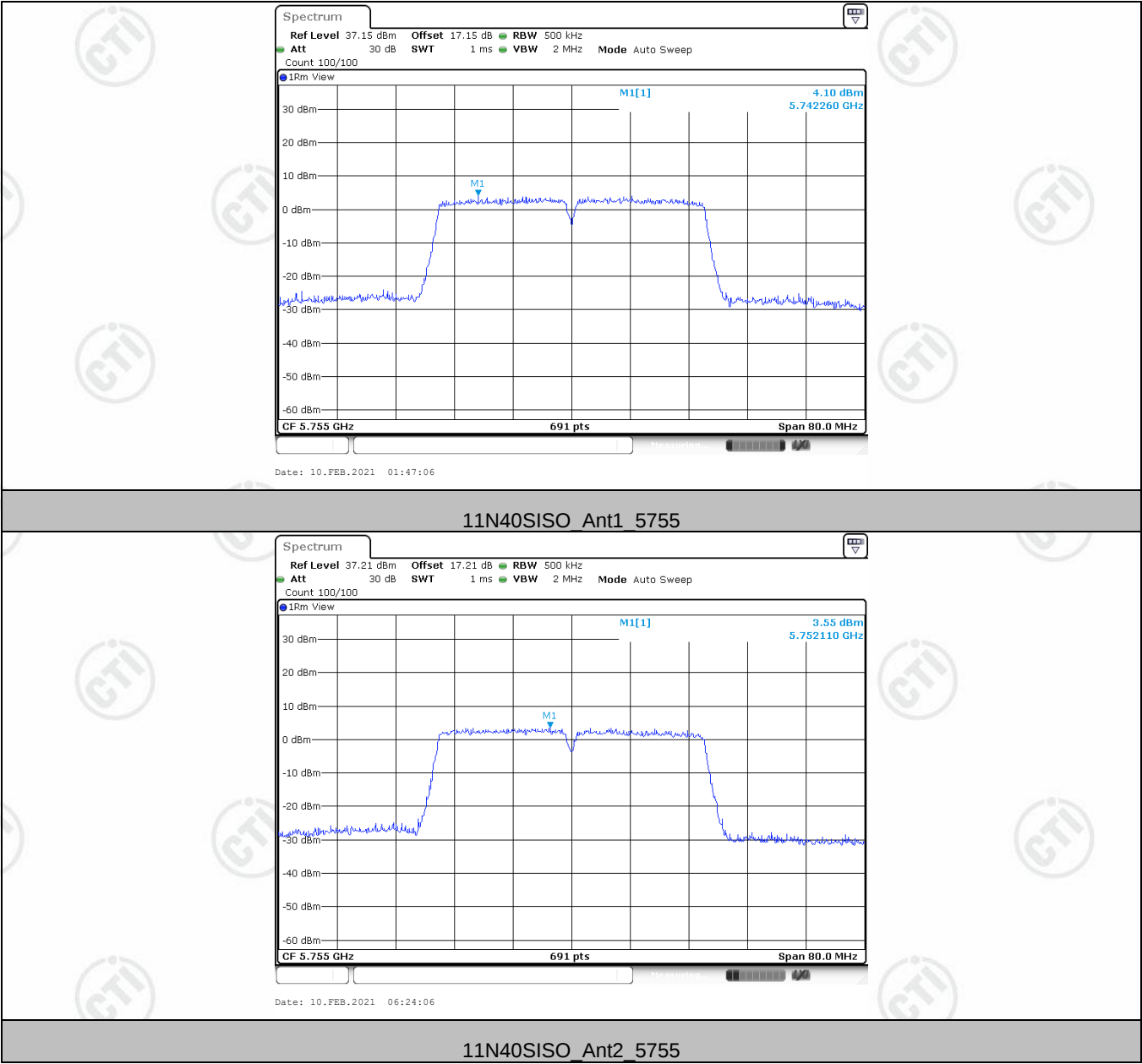


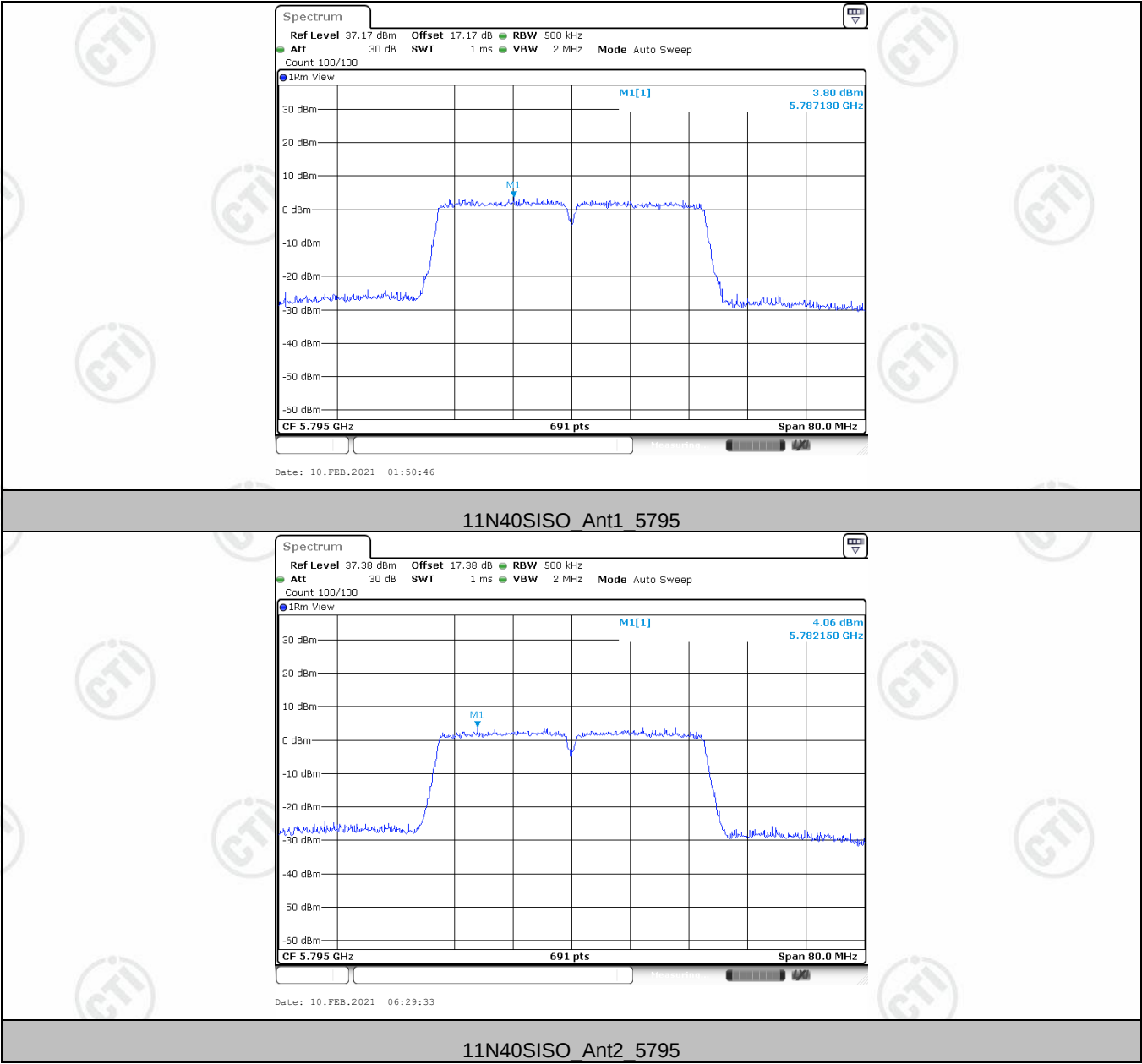
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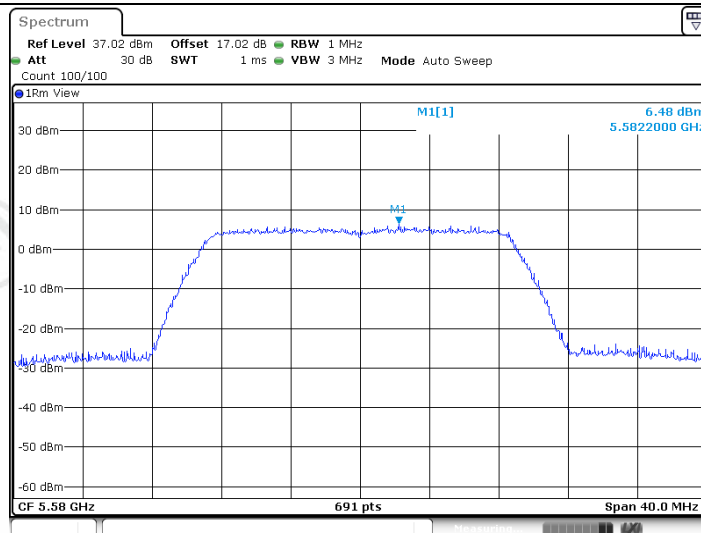


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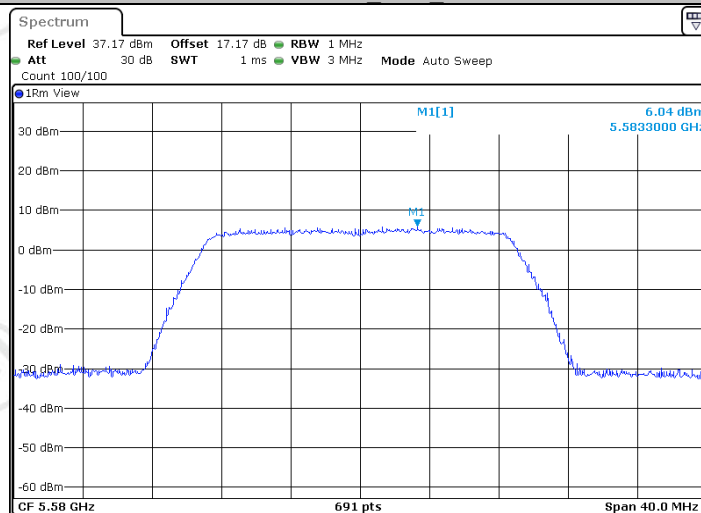


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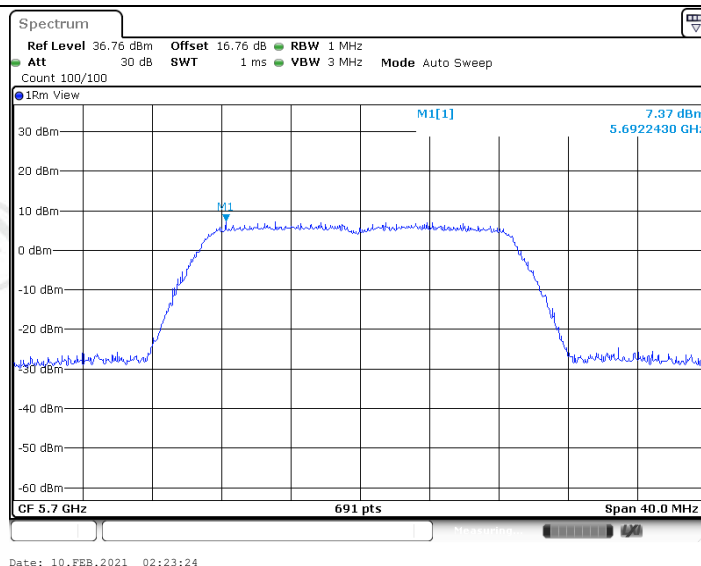
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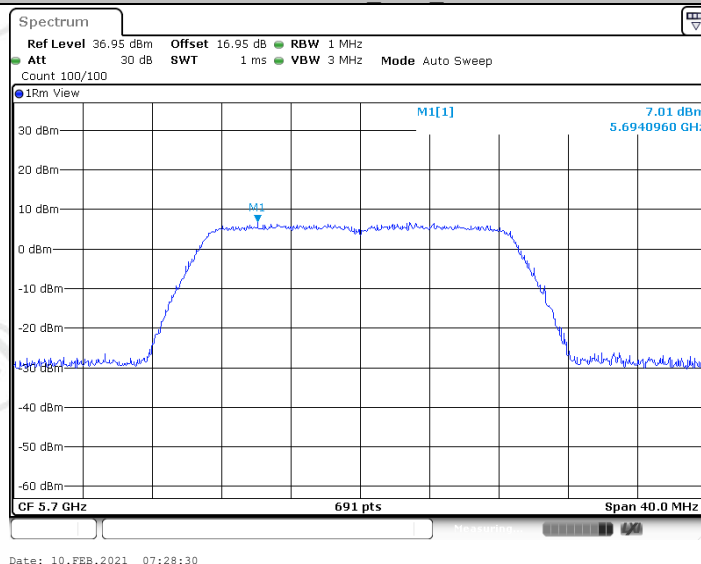
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11AC20SISO_Ant2_5580

Report No. : EED39N00008304



11AC20SISO_Ant1_5700



11AC20SISO_Ant2_5700

Report No. : EED39N00008304



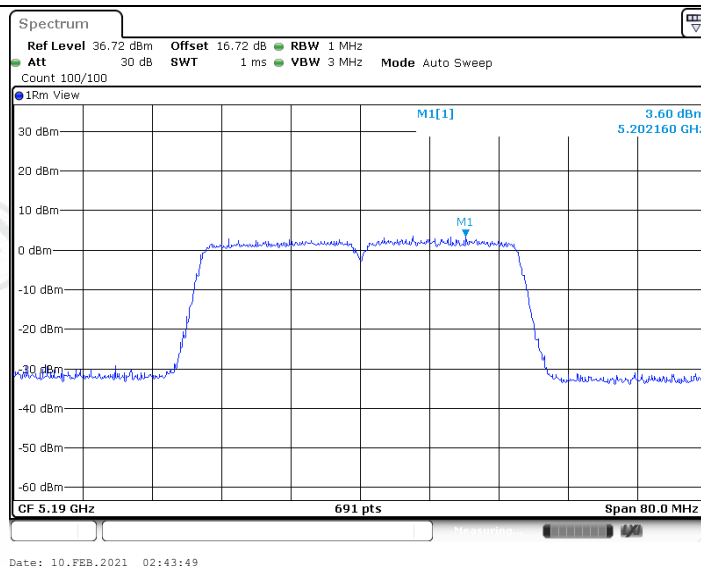
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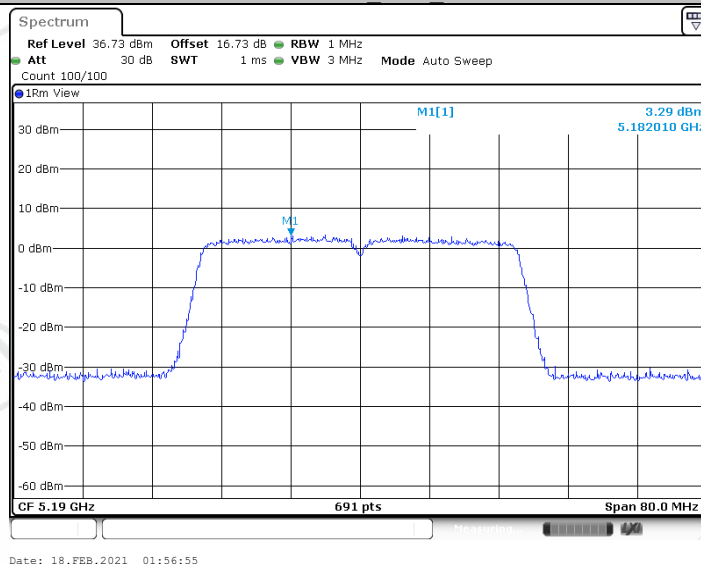
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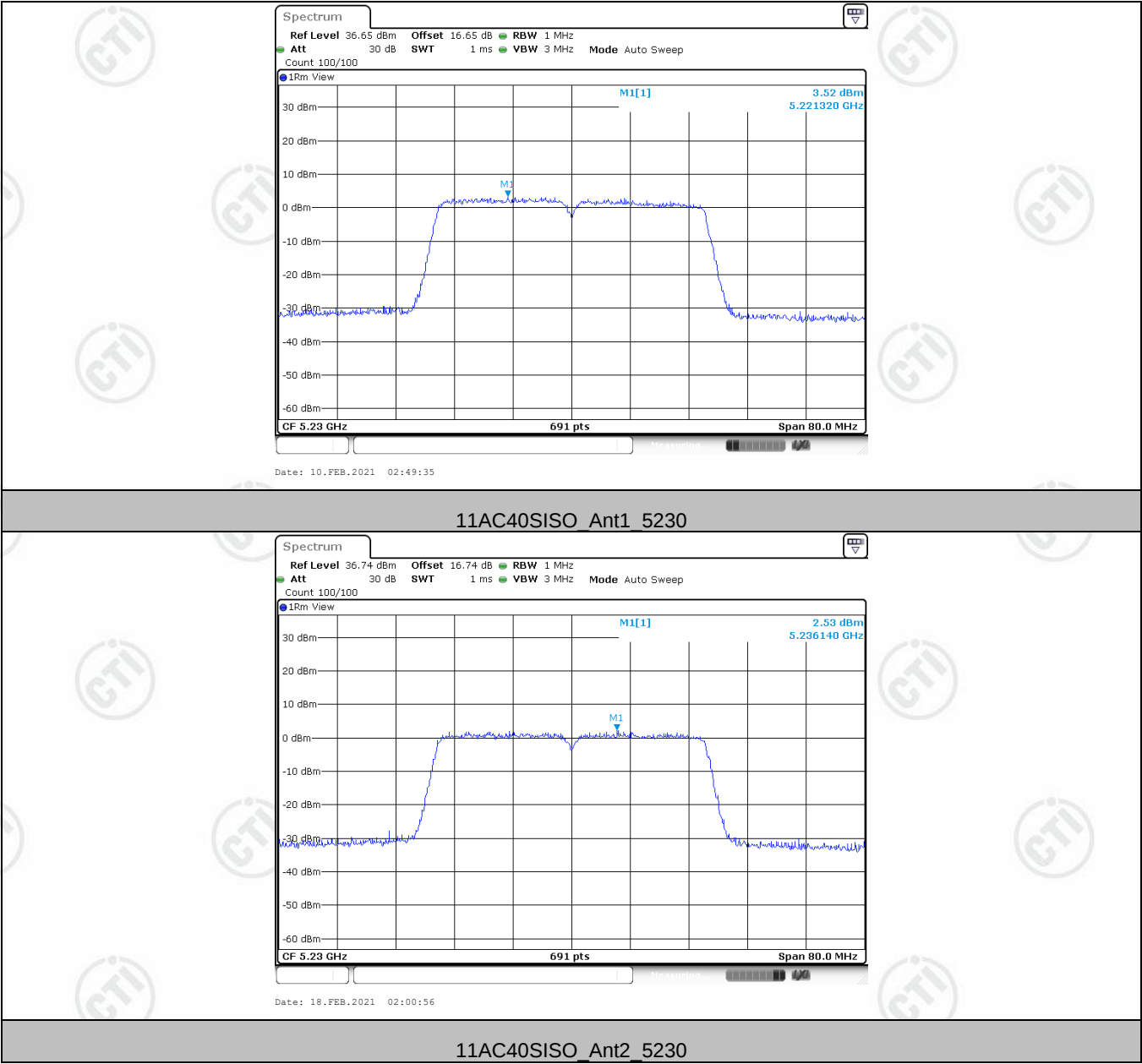


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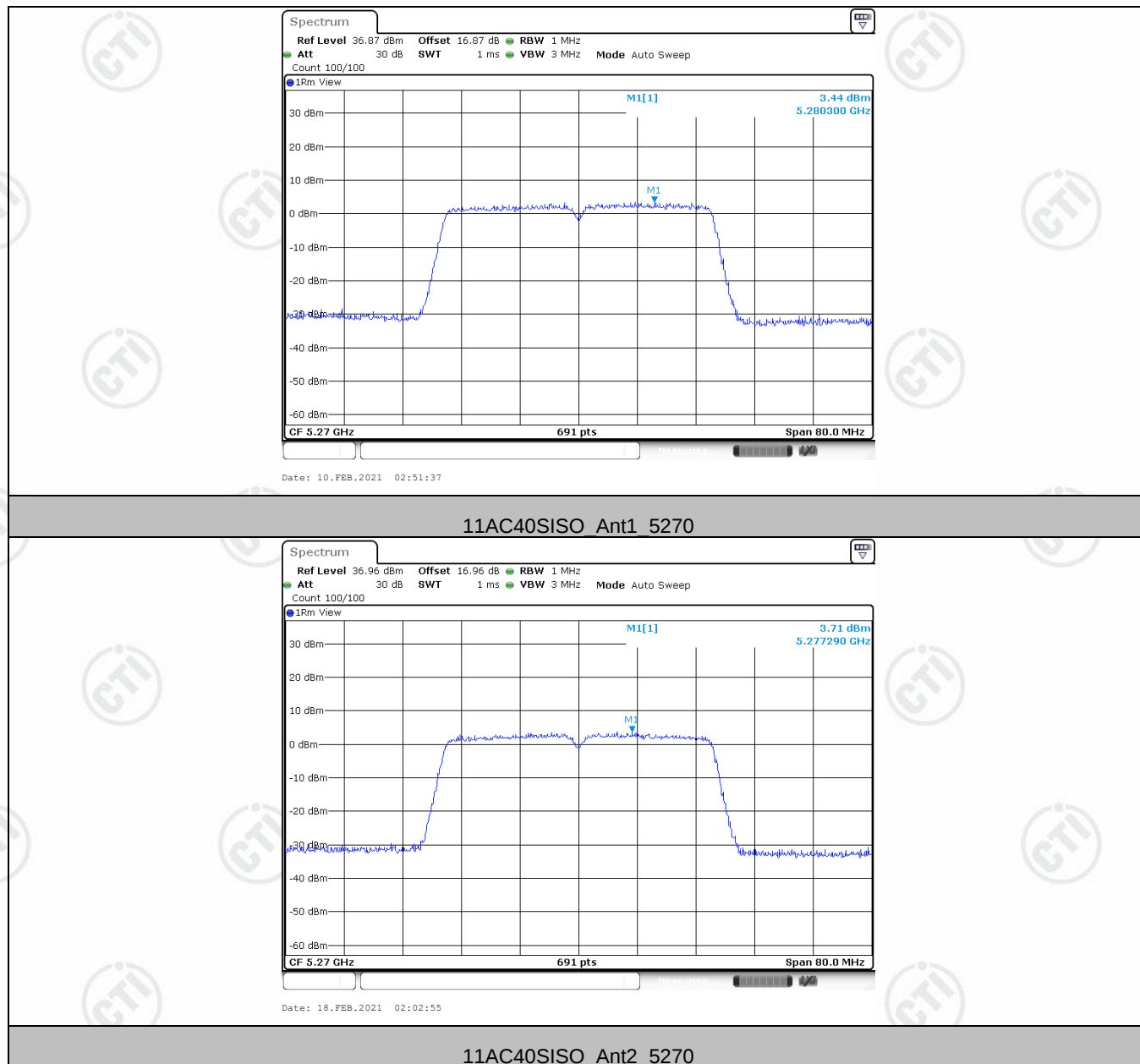


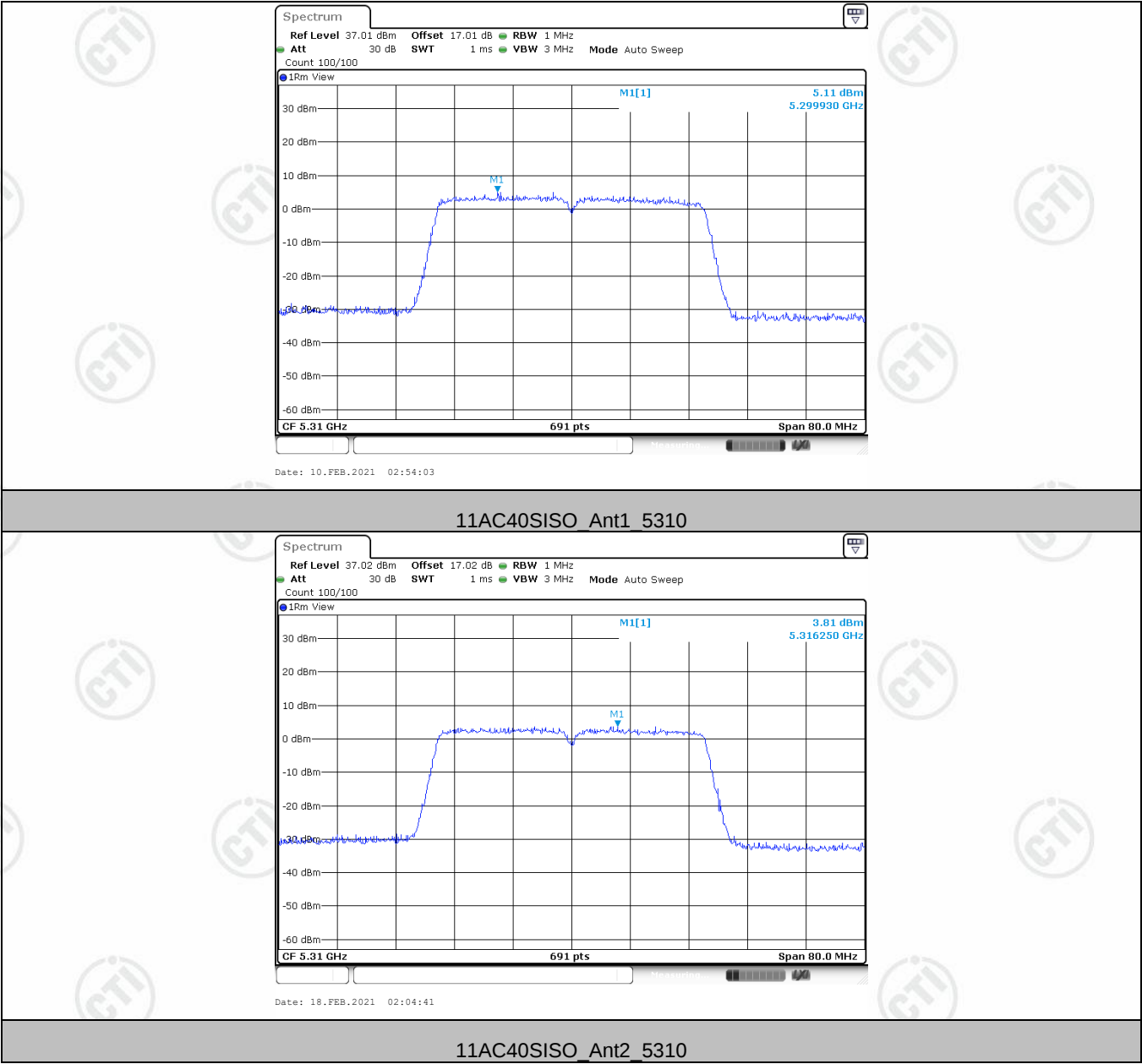
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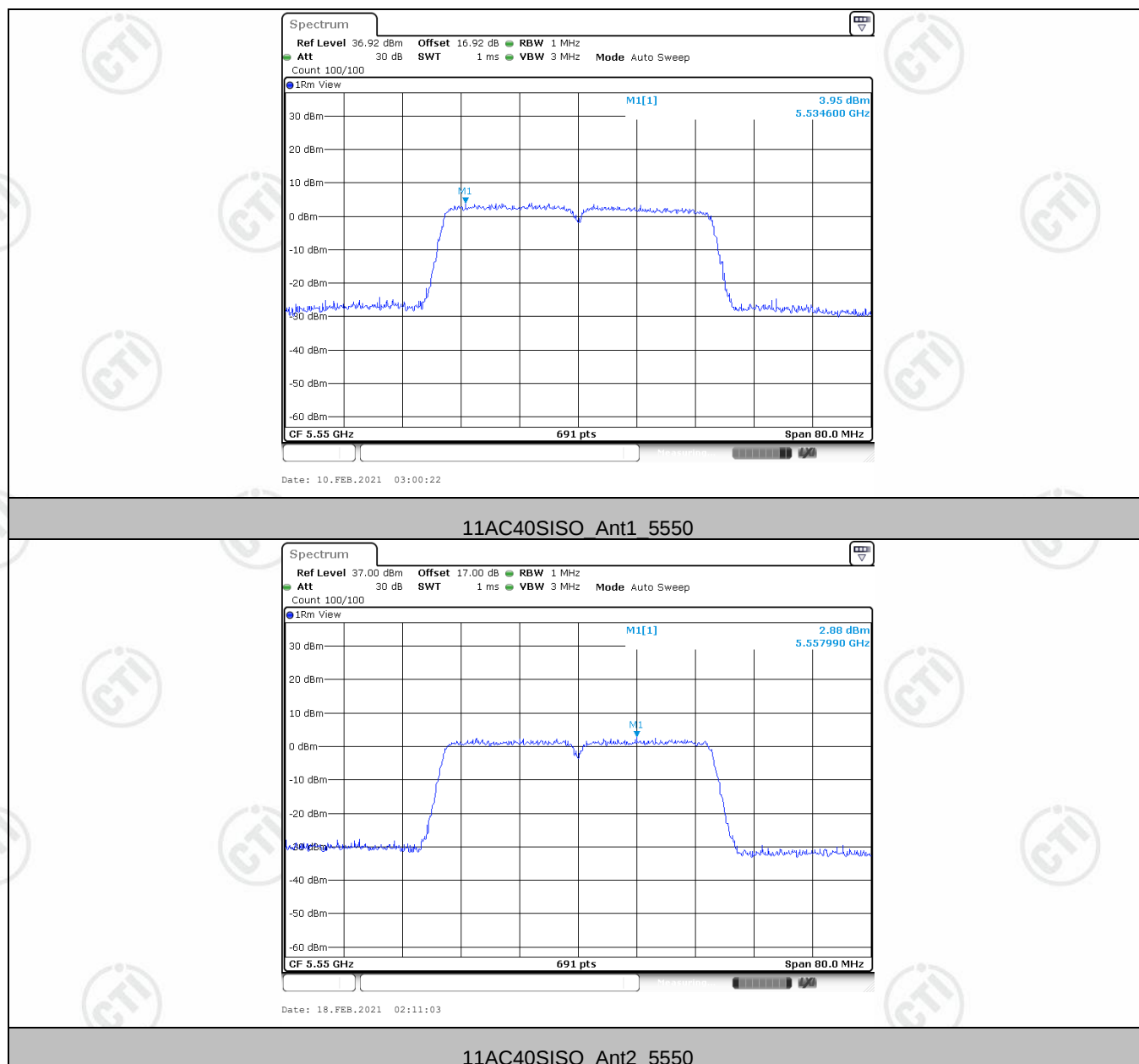
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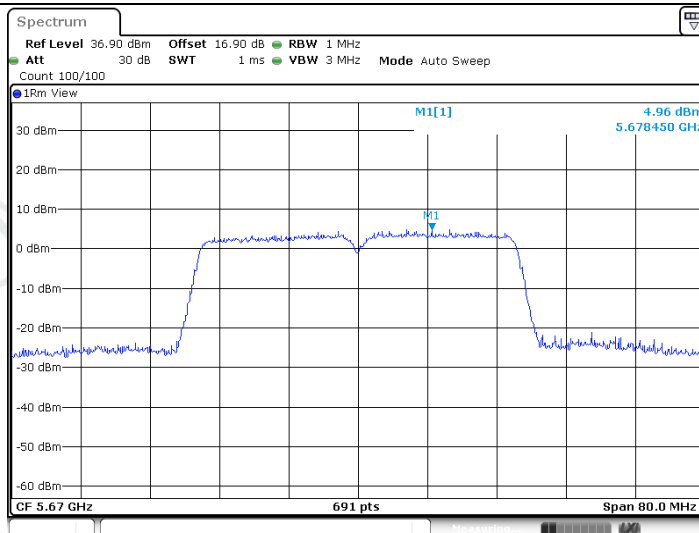




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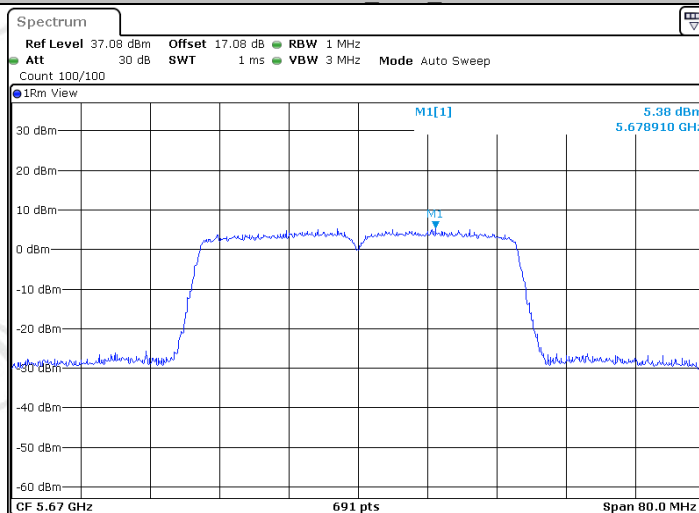


Report No. : EED39N00008304



Date: 10.FEB.2021 03:02:34

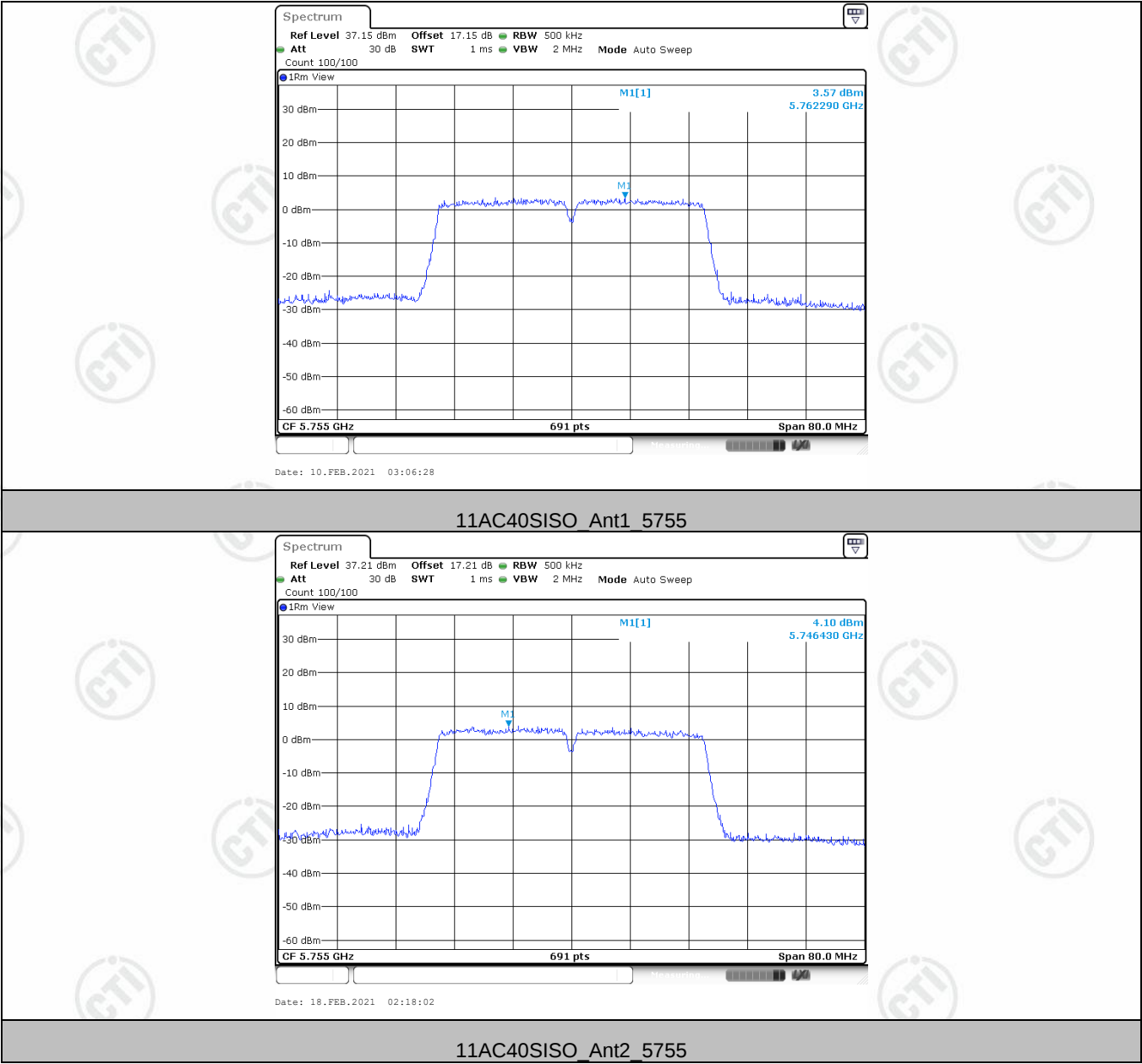
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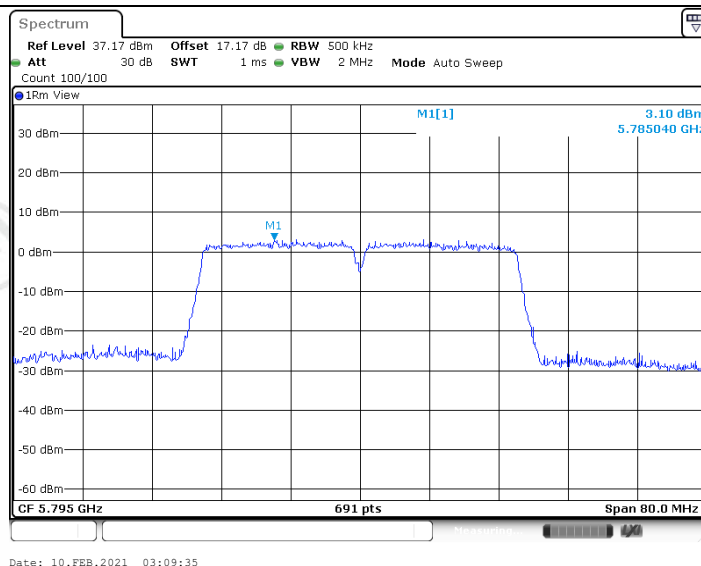
Date: 18.FEB.2021 02:12:56

11AC40SISO_Ant2_5670

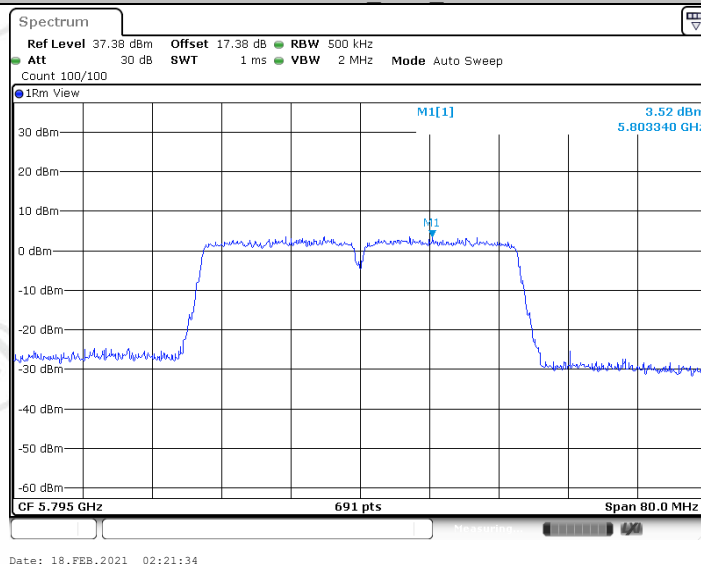
Report No. : EED39N00008304



Report No. : EED39N00008304

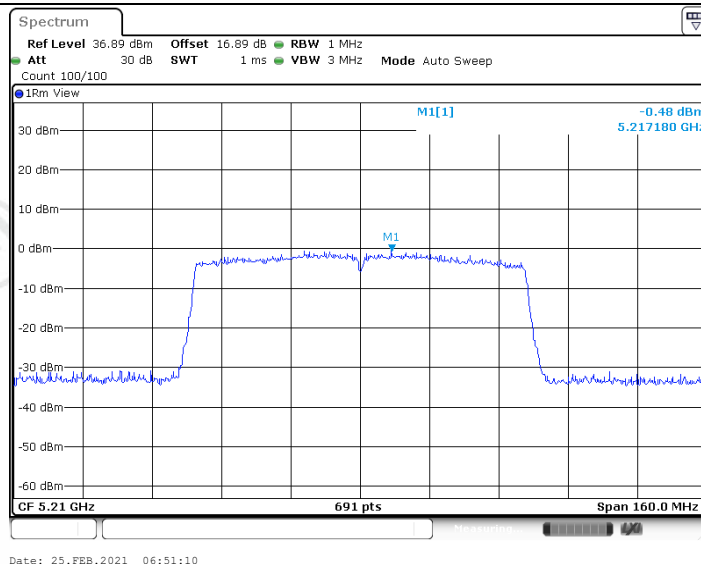


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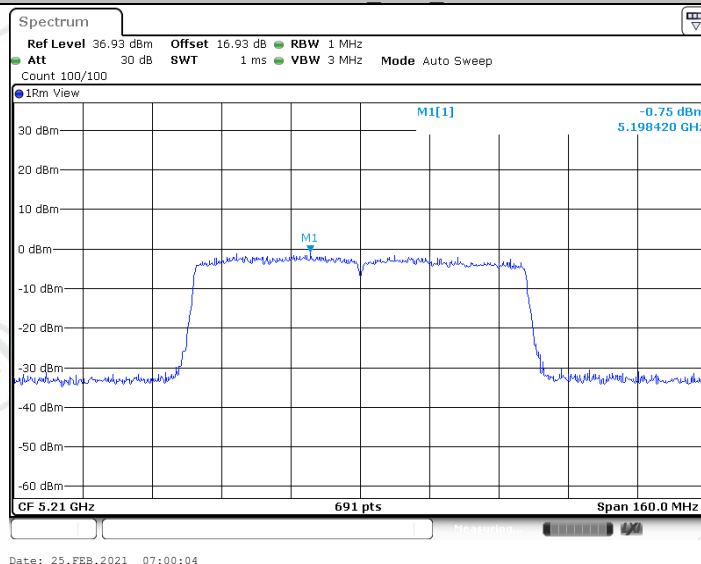


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Report No. : EED39N00008304

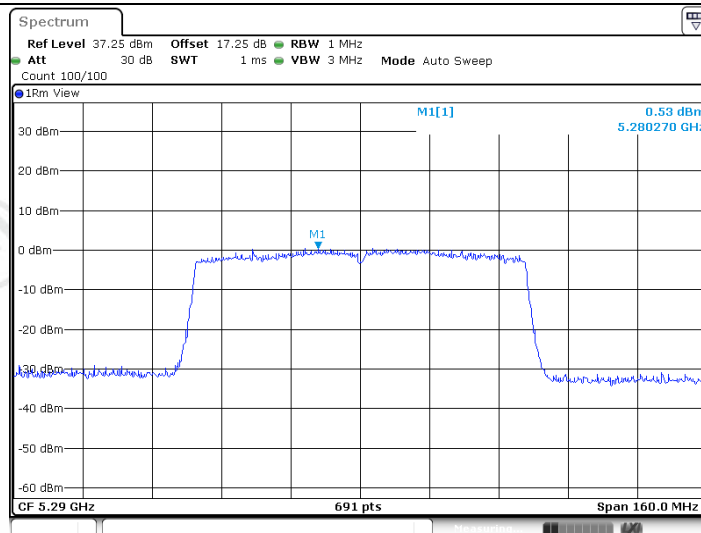


11AC80SISO_Ant1_5210



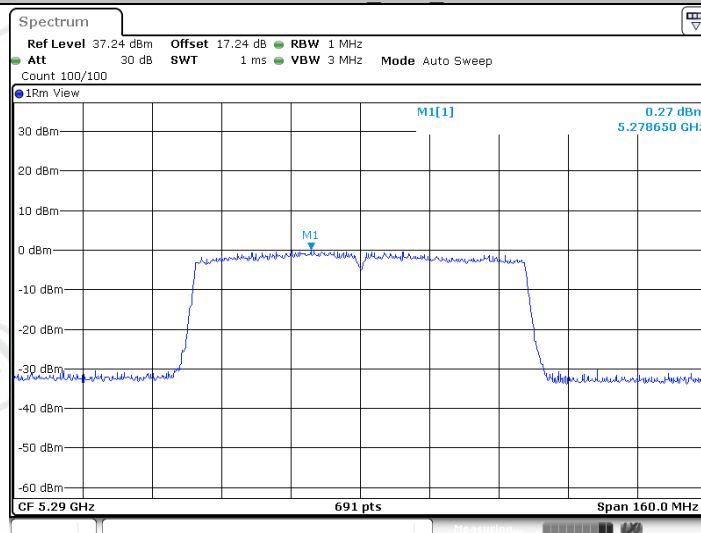
11AC80SISO_Ant2_5210

Report No. : EED39N00008304



Date: 25.FEB.2021 06:53:52

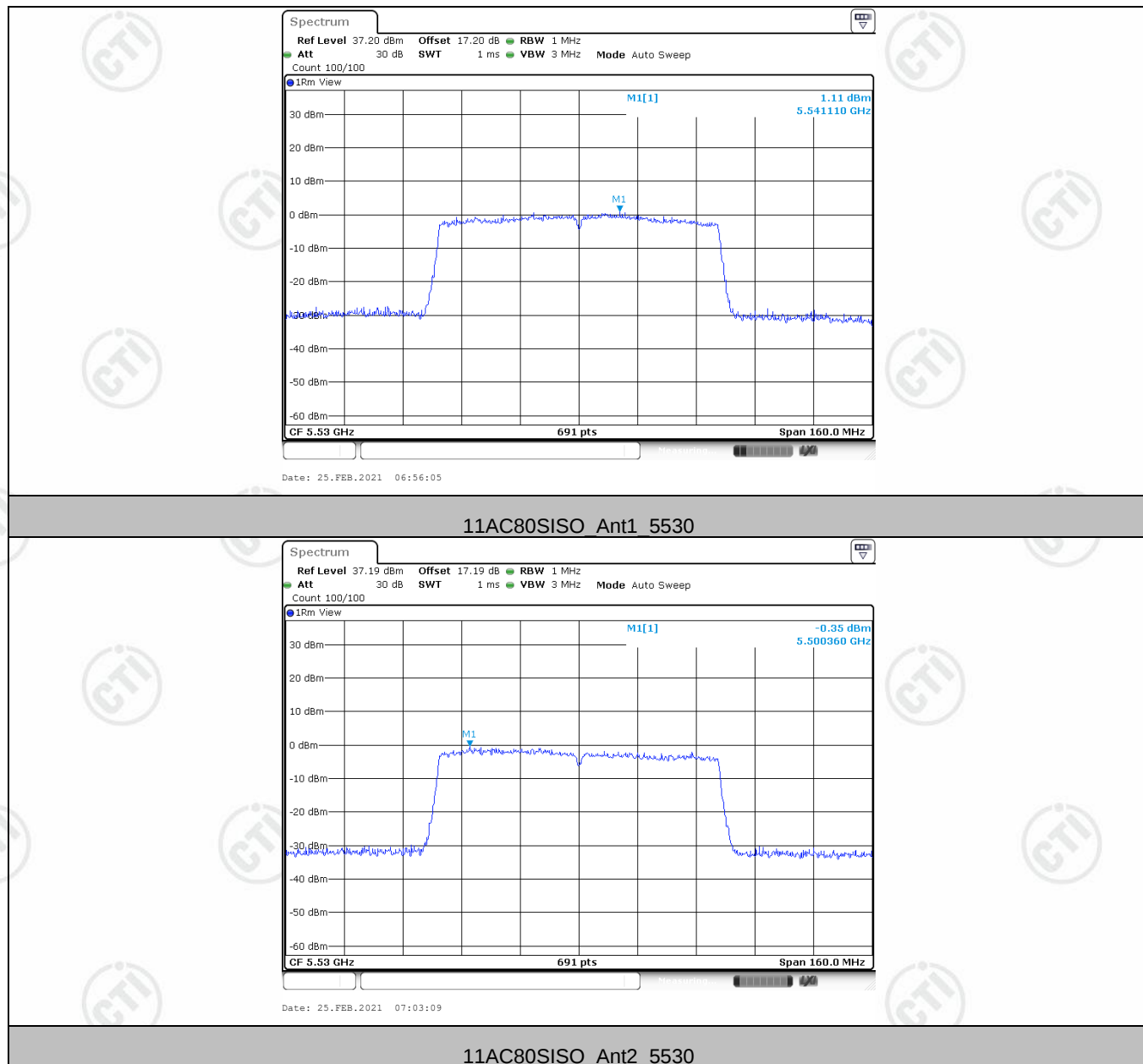
11AC80SISO Ant1 5290



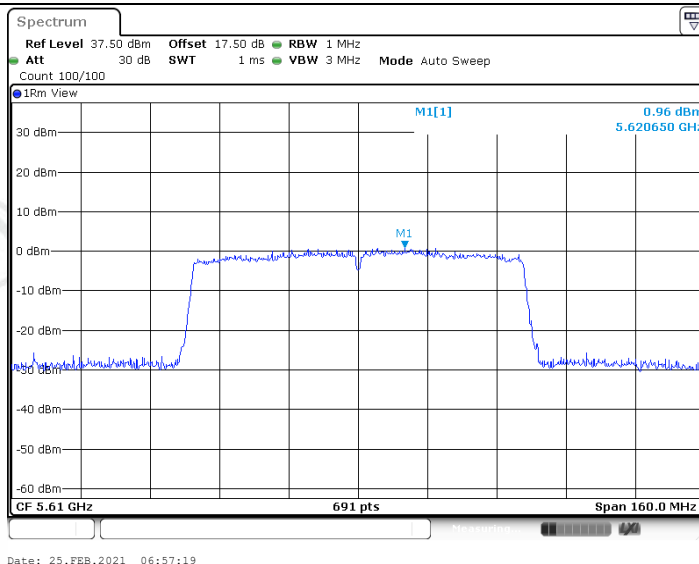
Date: 25.FEB.2021 07:02:13

11AC80SISO Ant2 5290

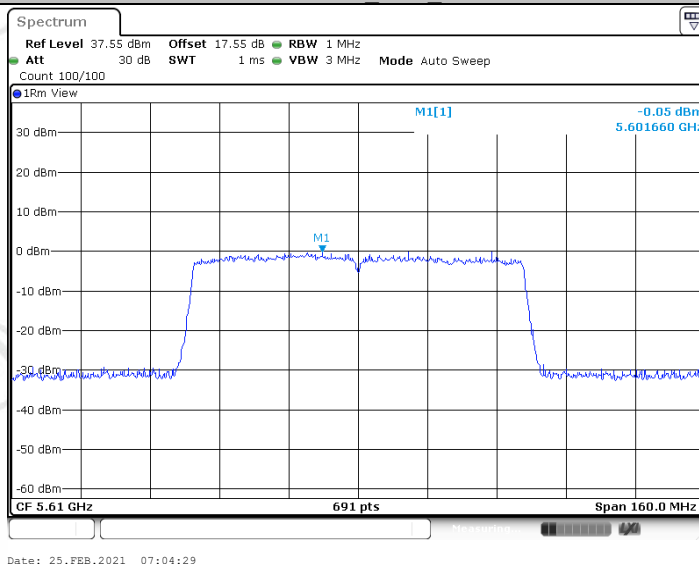
Report No. : EED39N00008304



Report No. : EED39N00008304

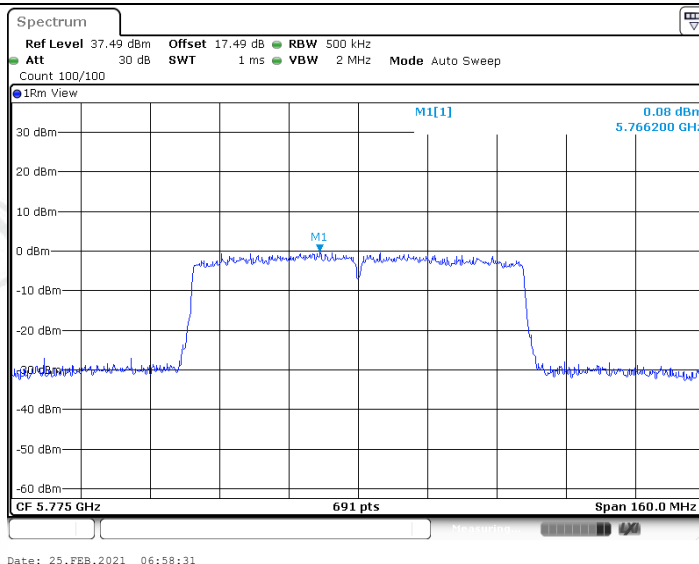


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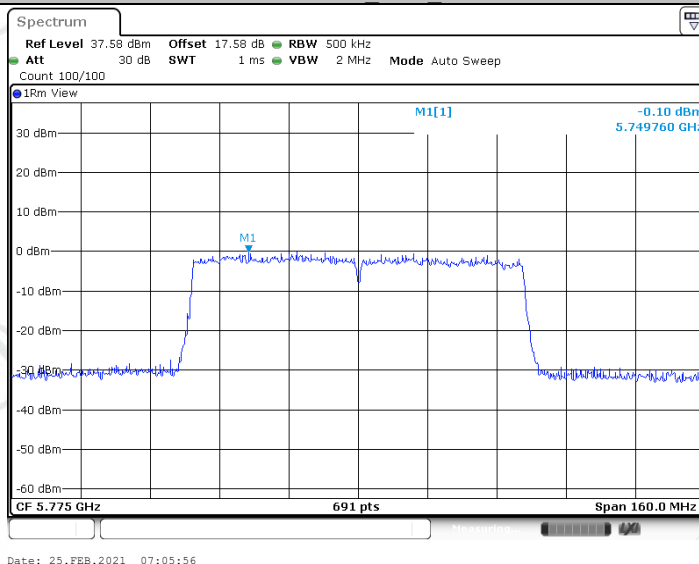


11AC80SISO_Ant2_5610

Report No. : EED39N00008304



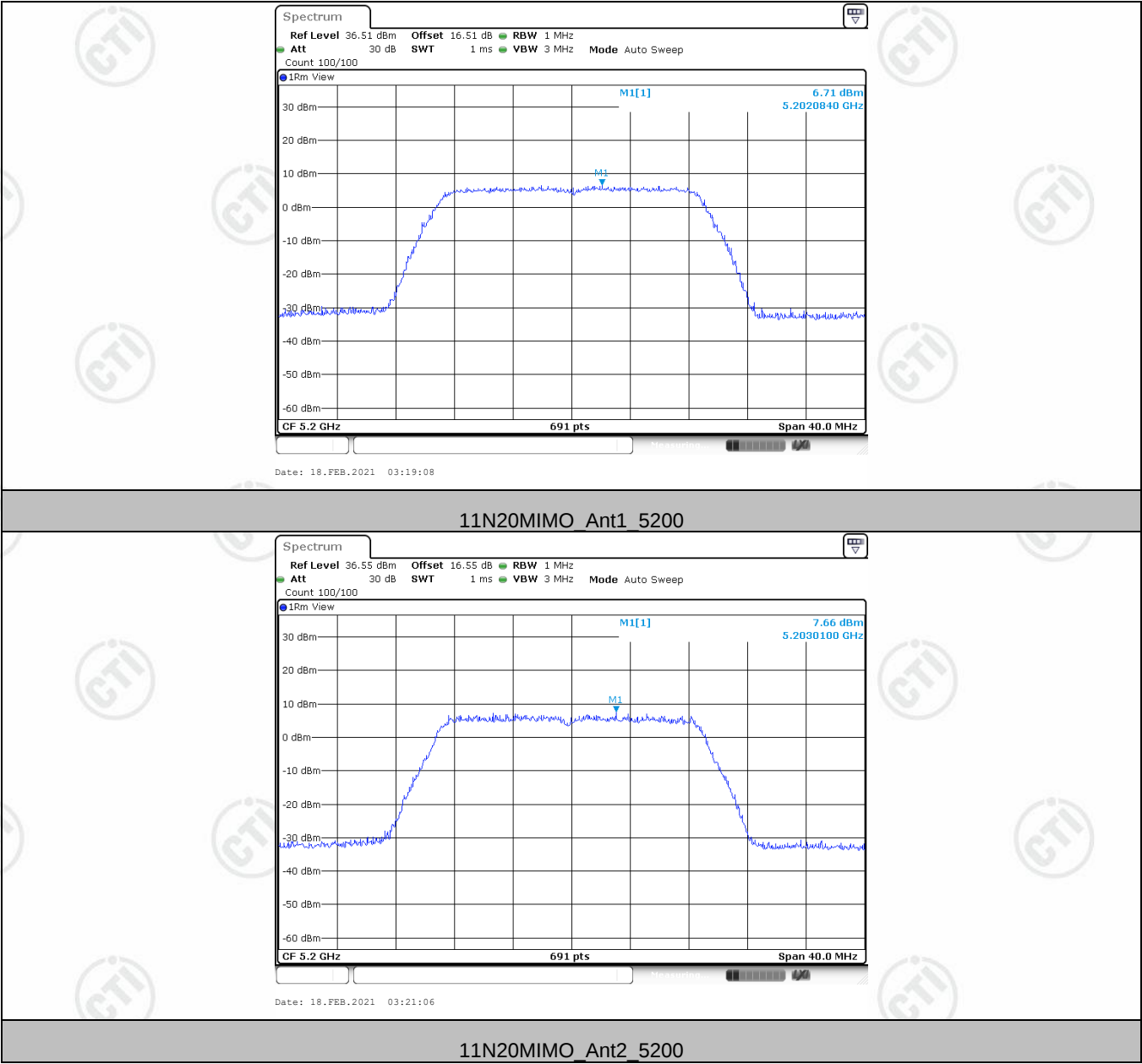
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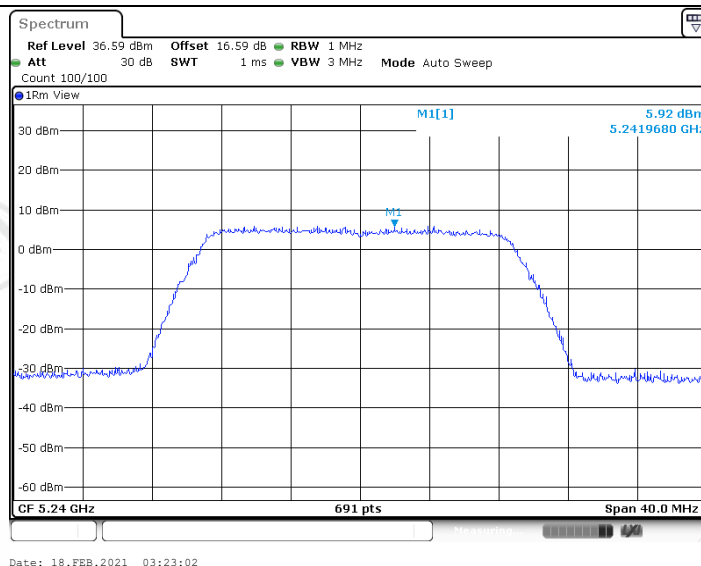
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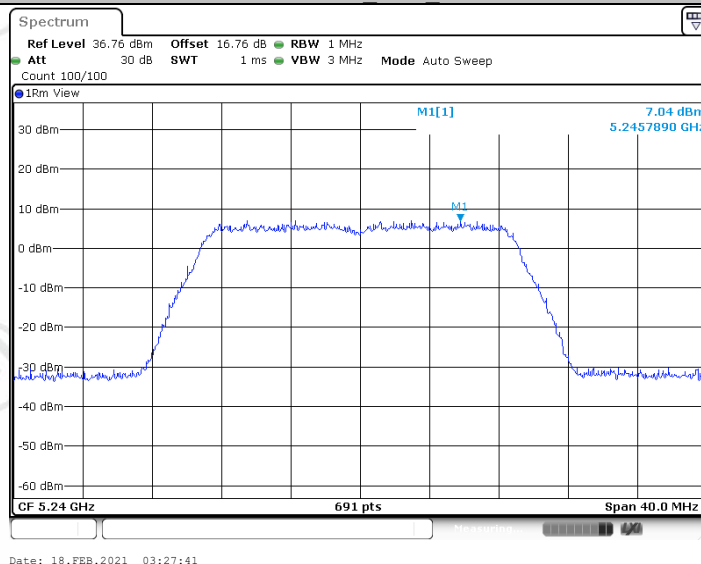
Report No. : EED39N00008304



Report No. : EED39N00008304



11N20MIMO Ant1 5240



11N20MIMO Ant2 5240

Report No. : EED39N00008304



Report No. : EED39N00008304

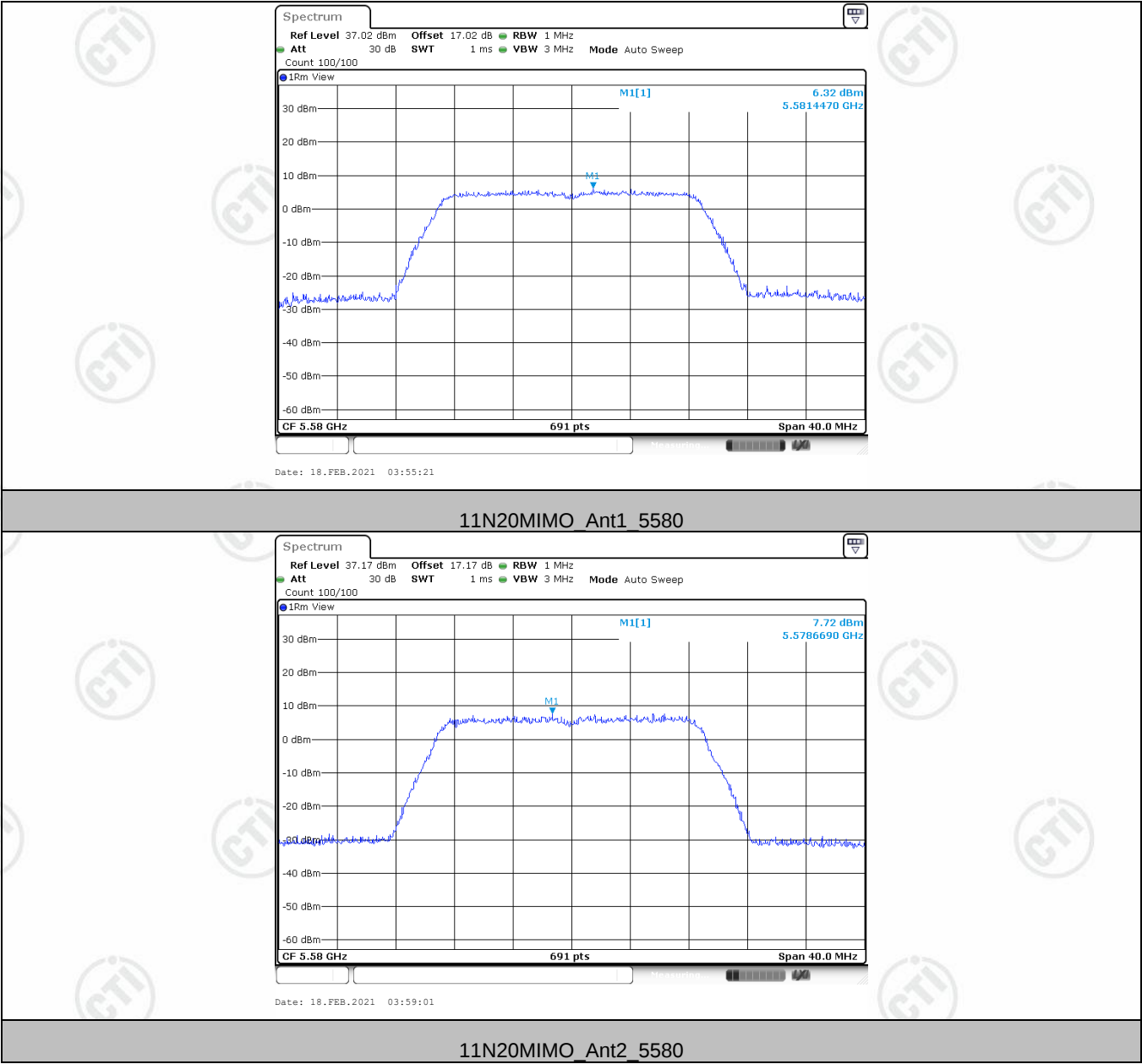


Report No. : EED39N00008304



Report No. : EED39N00008304





Report No. : EED39N00008304

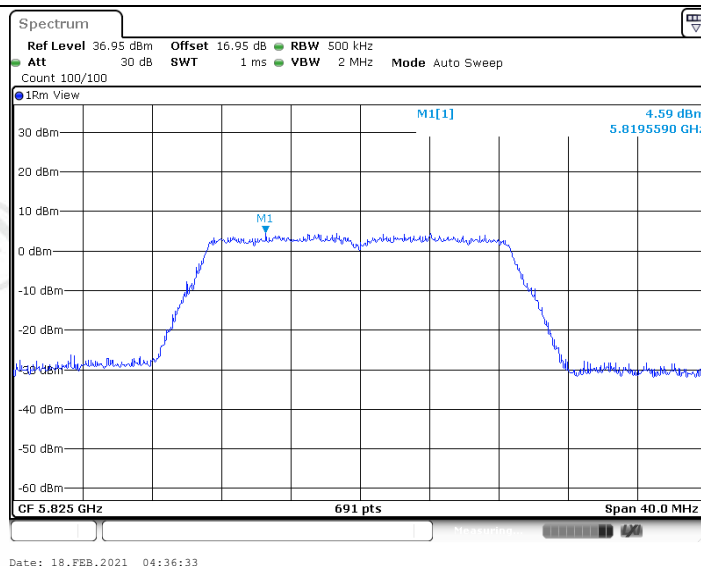




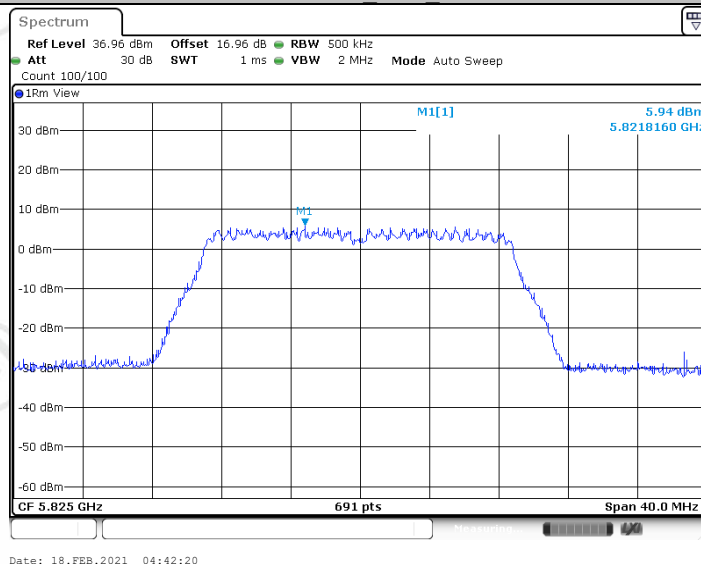
Report No. : EED39N00008304



Report No. : EED39N00008304

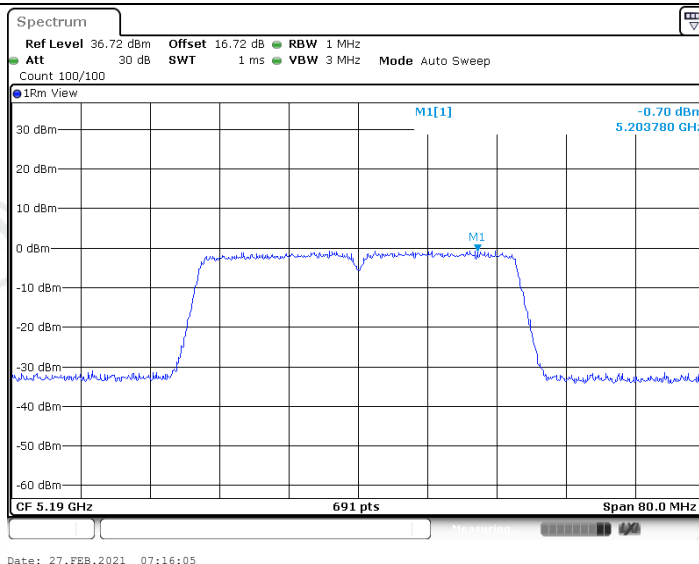


11N20MIMO Ant1 5825

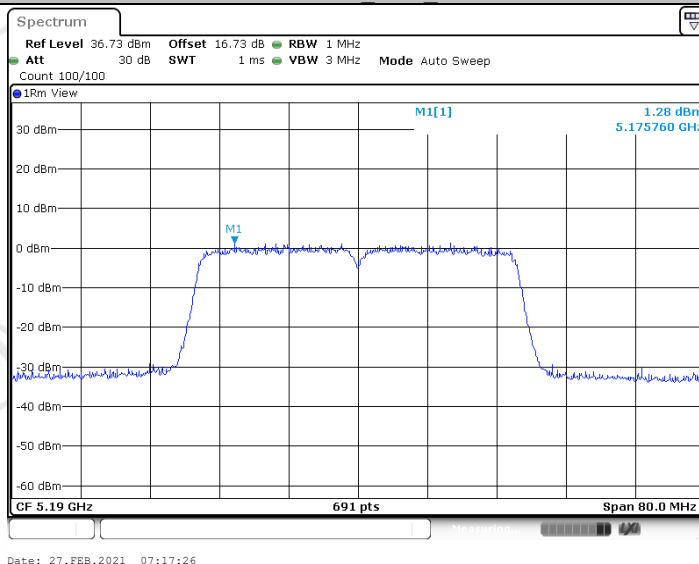


11N20MIMO Ant2 5825

Report No. : EED39N00008304

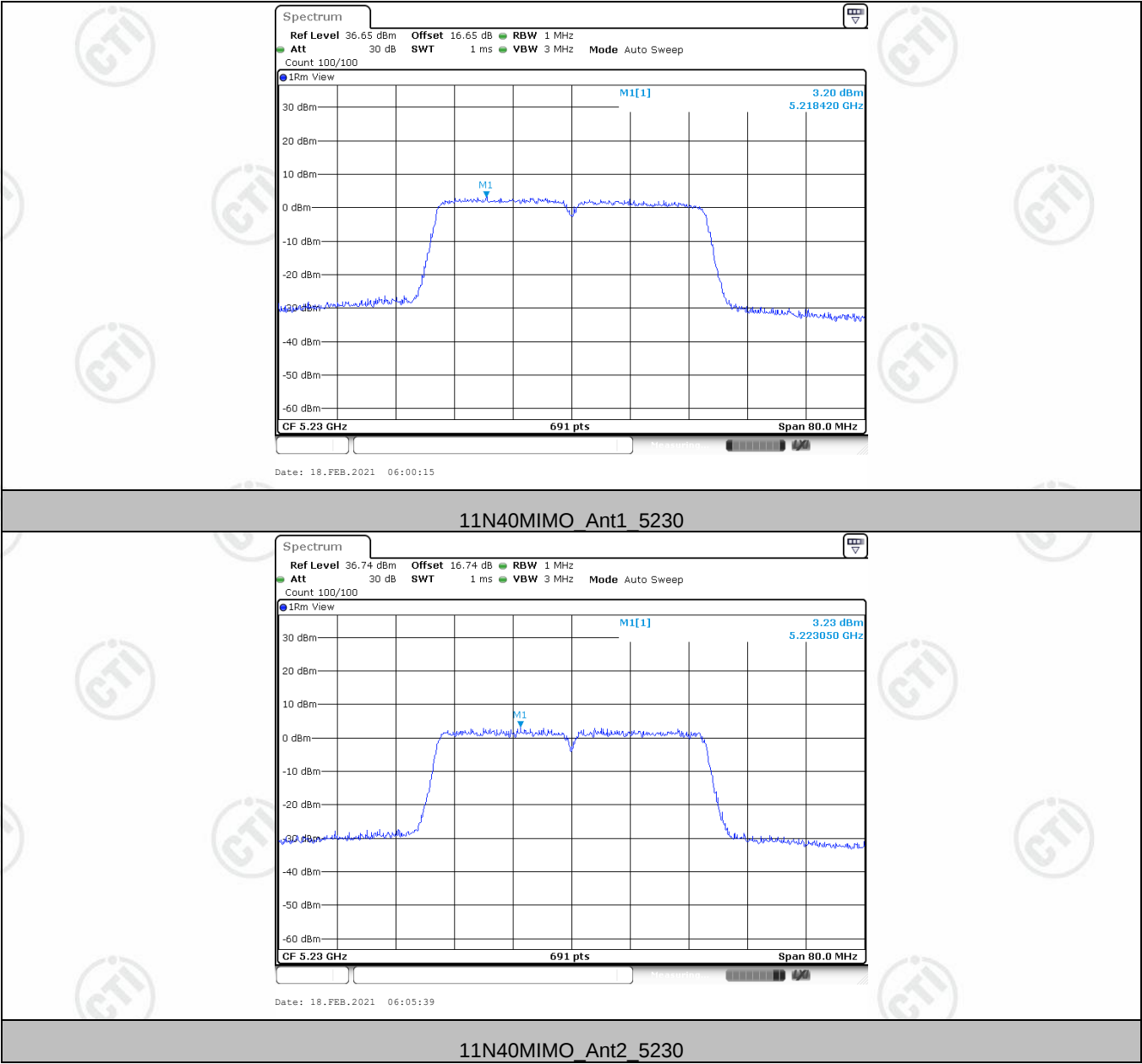


11N40MIMO Ant1 5190

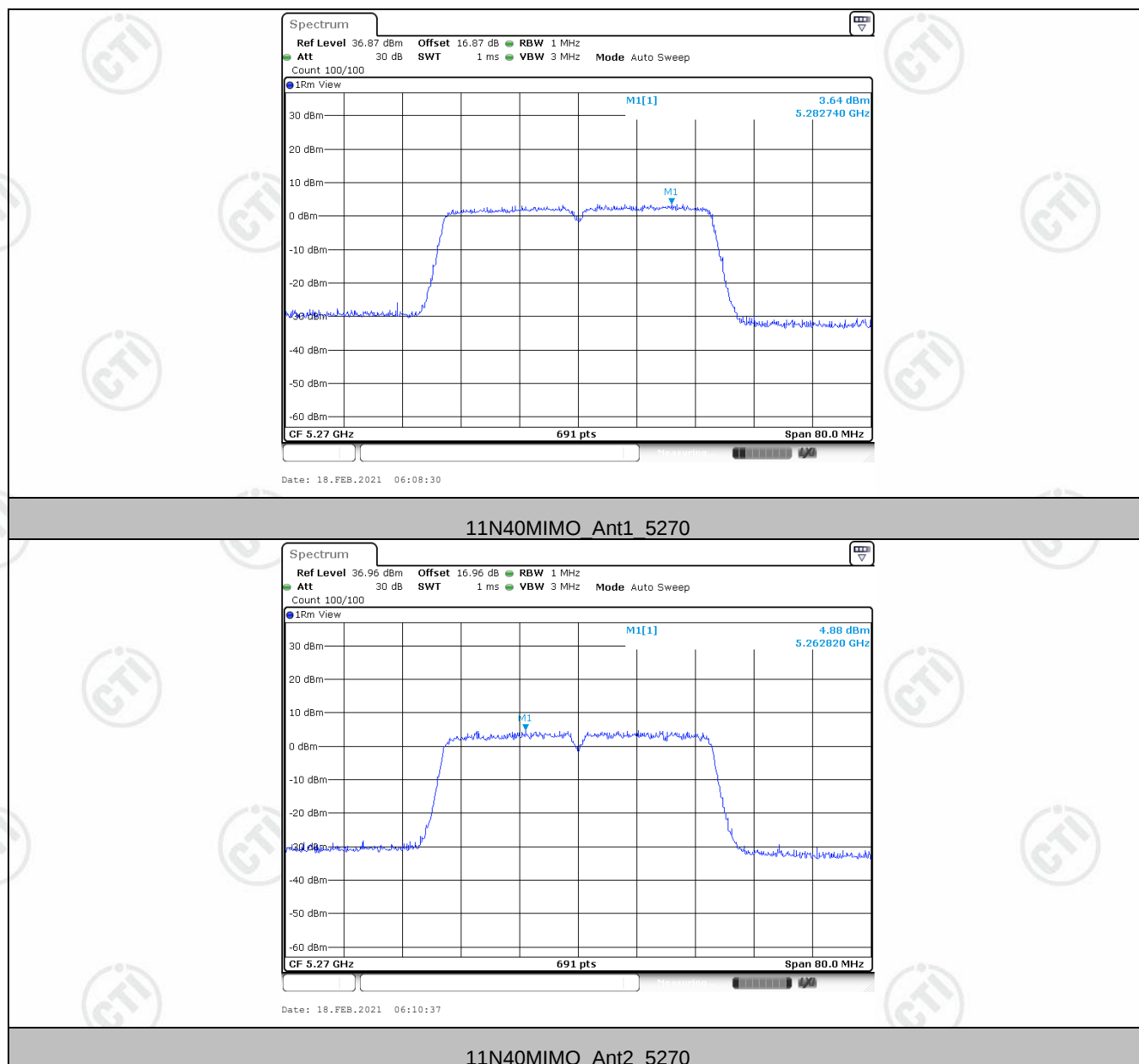


11N40MIMO Ant2 5190

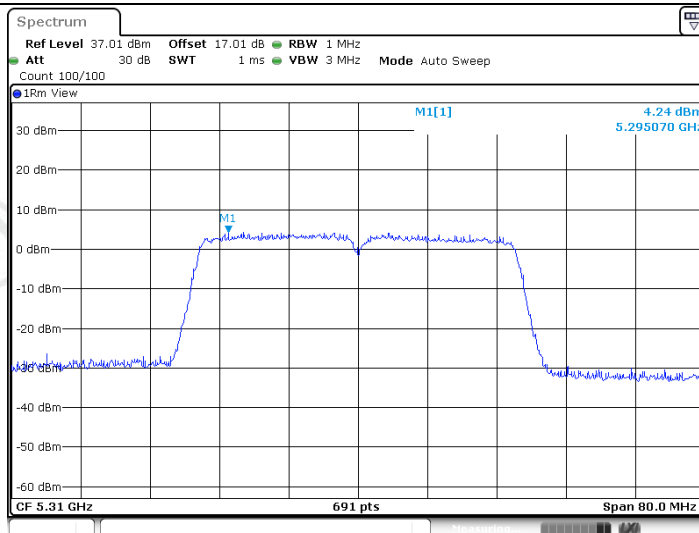
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Report No. : EED39N00008304

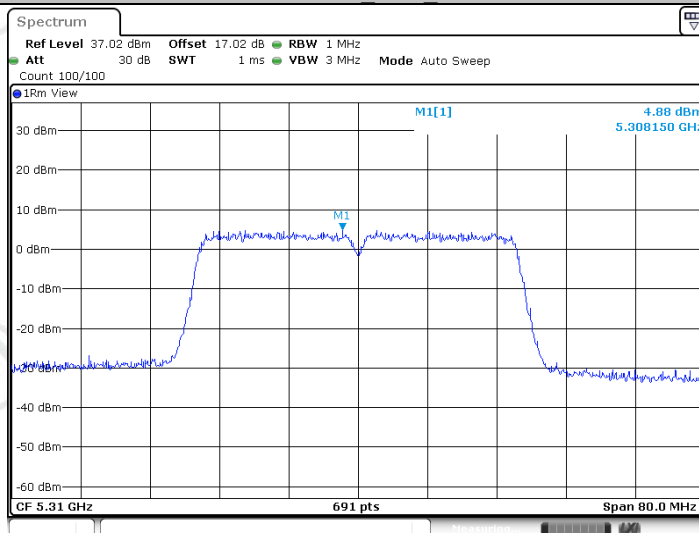


Report No. : EED39N00008304



Date: 18.FEB.2021 06:14:23

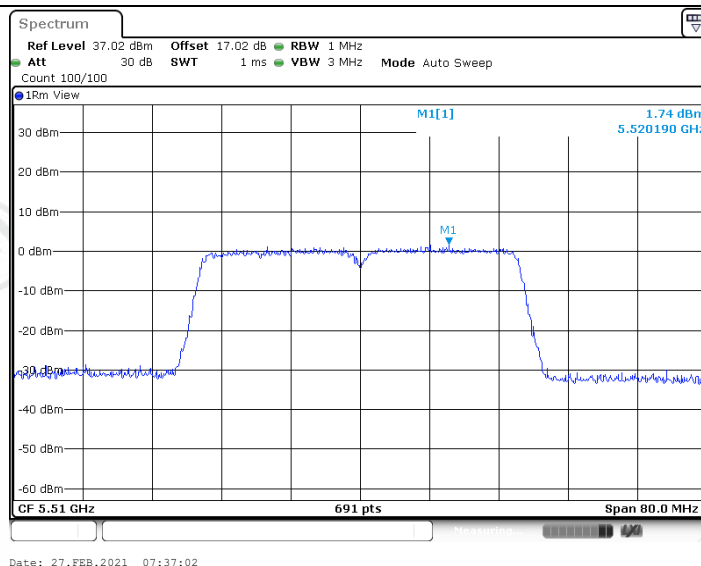
11N40MIMO Ant1 5310



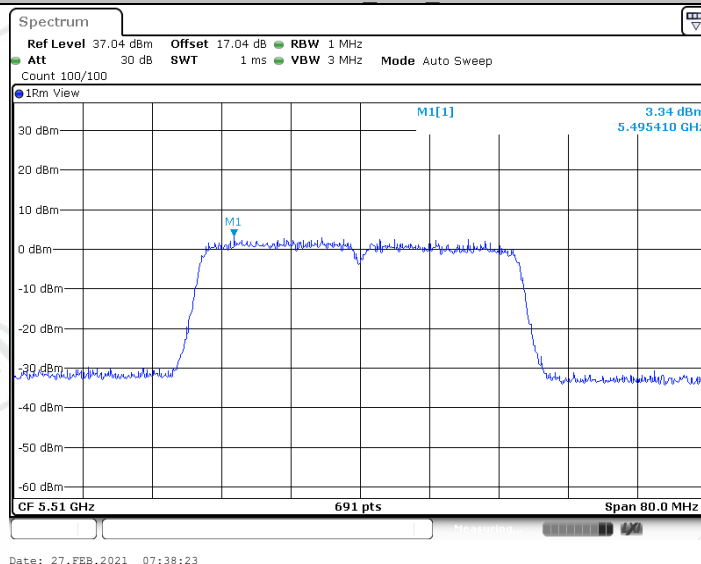
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11N40MIMO Ant2 5310

Report No. : EED39N00008304

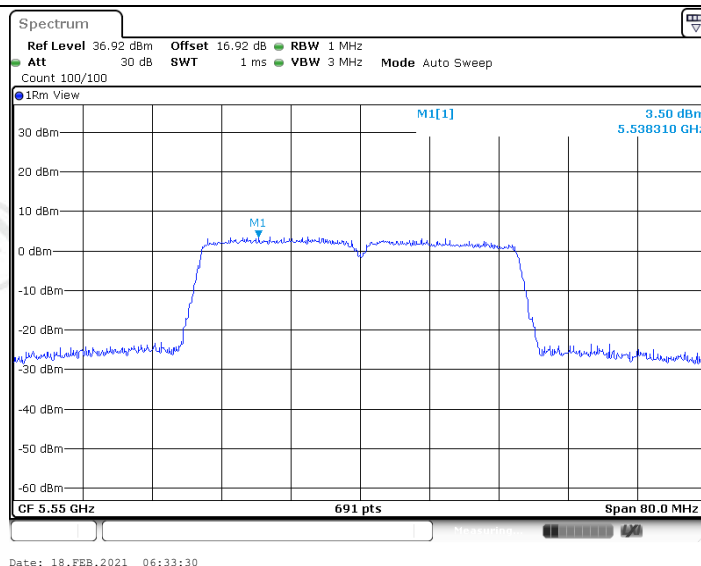


11N40MIMO Ant1 5510

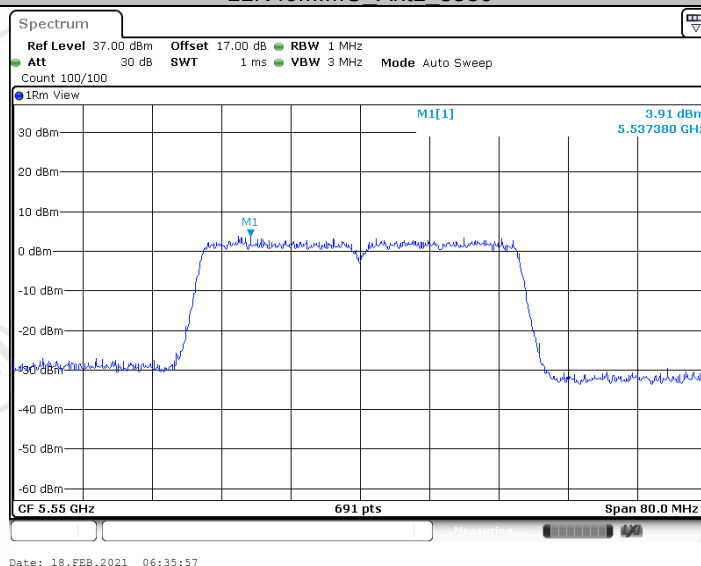


11N40MIMO Ant2 5510

Report No. : EED39N00008304

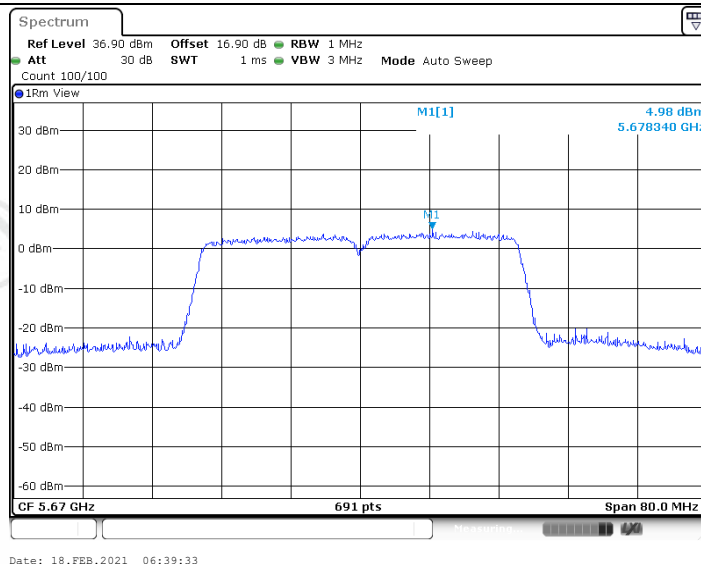


11N40MIMO Ant1 5550

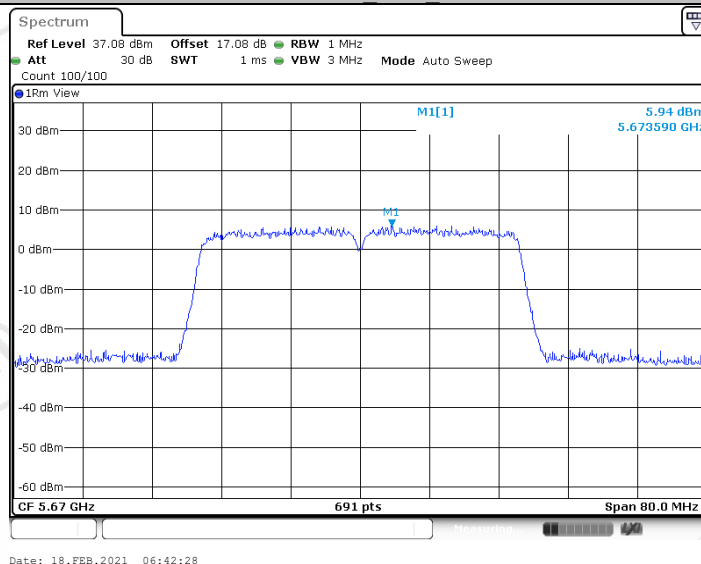


11N40MIMO Ant2 5550

Report No. : EED39N00008304

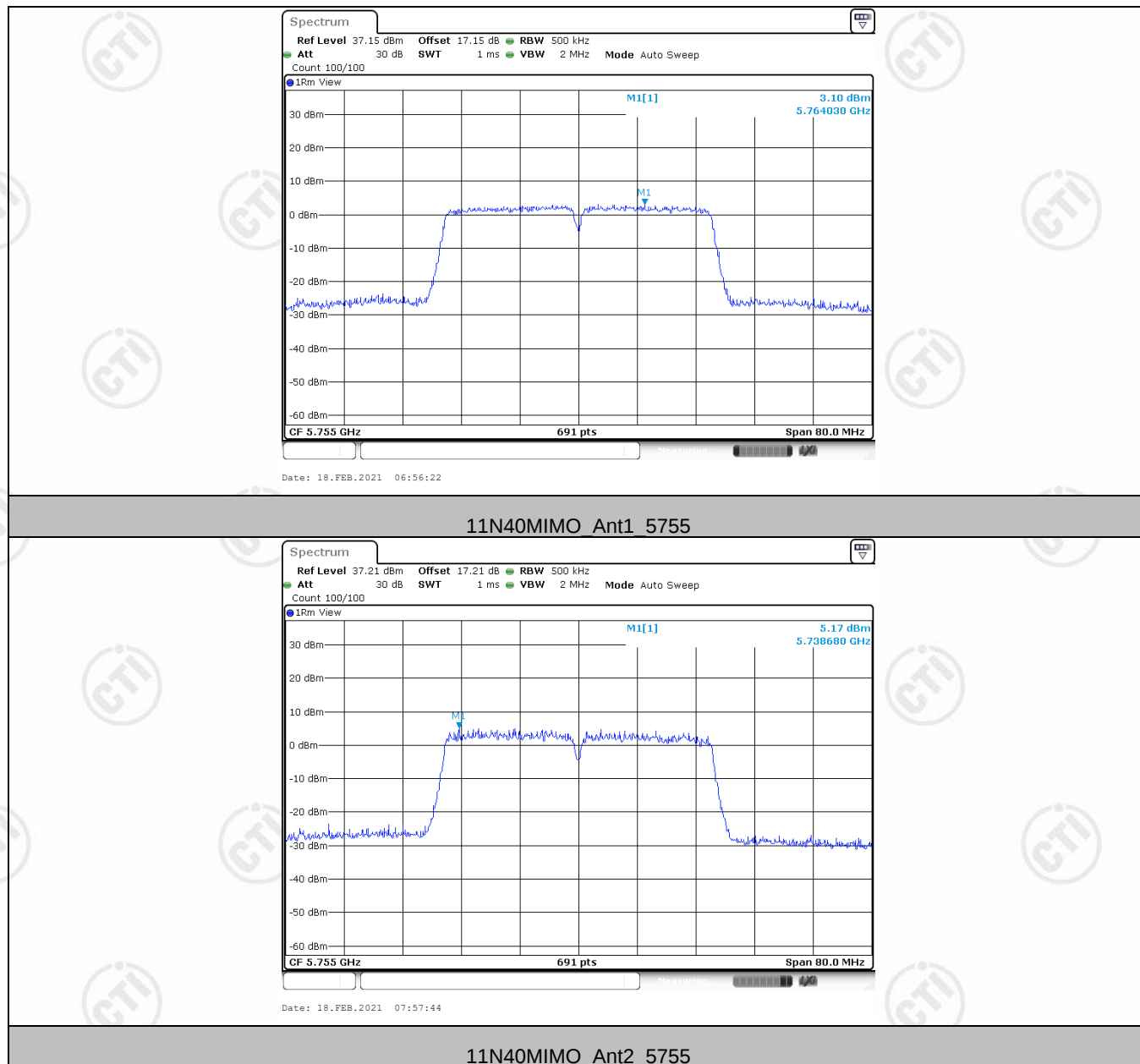


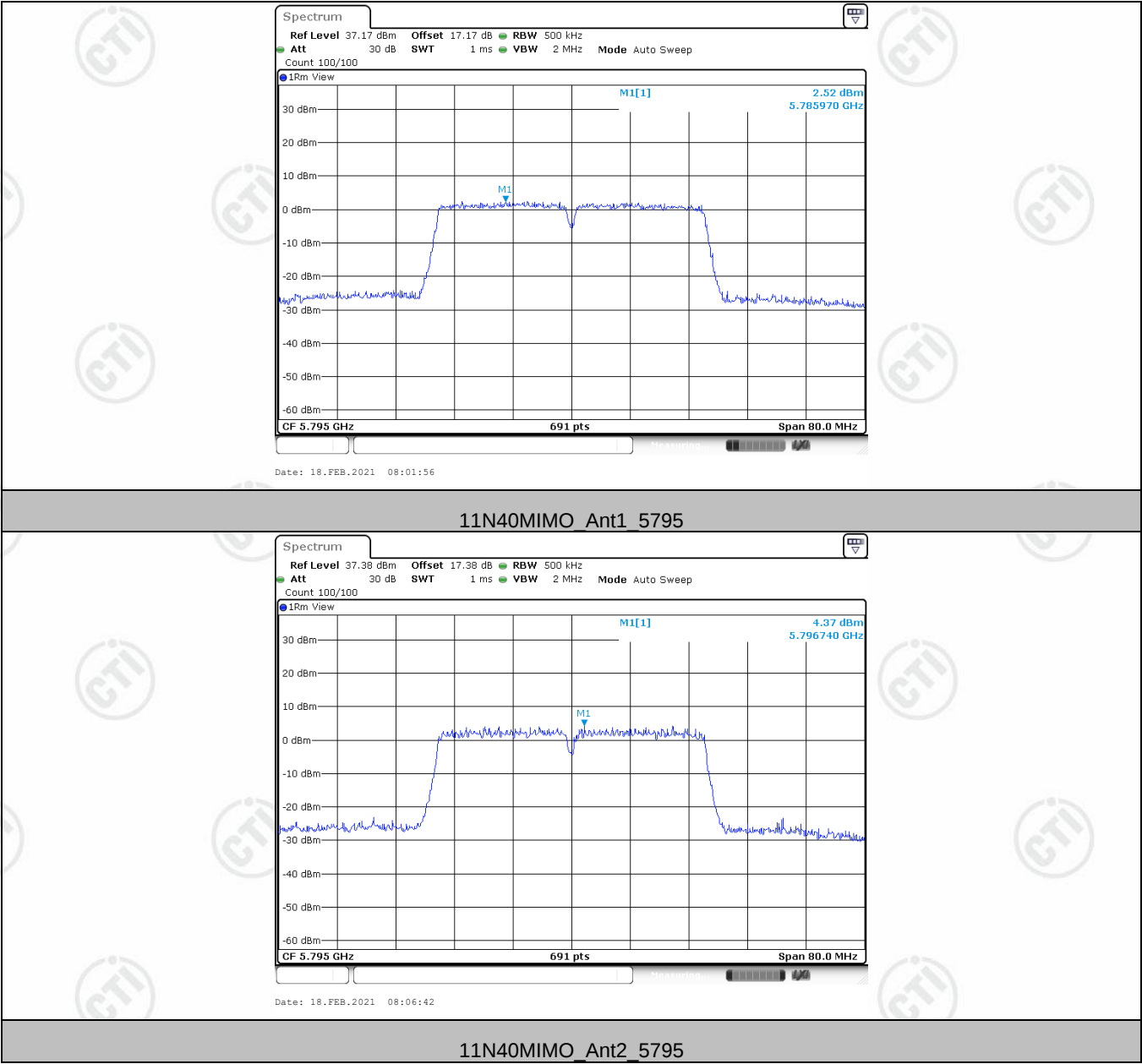
11N40MIMO Ant1 5670



11N40MIMO Ant2 5670

Report No. : EED39N00008304



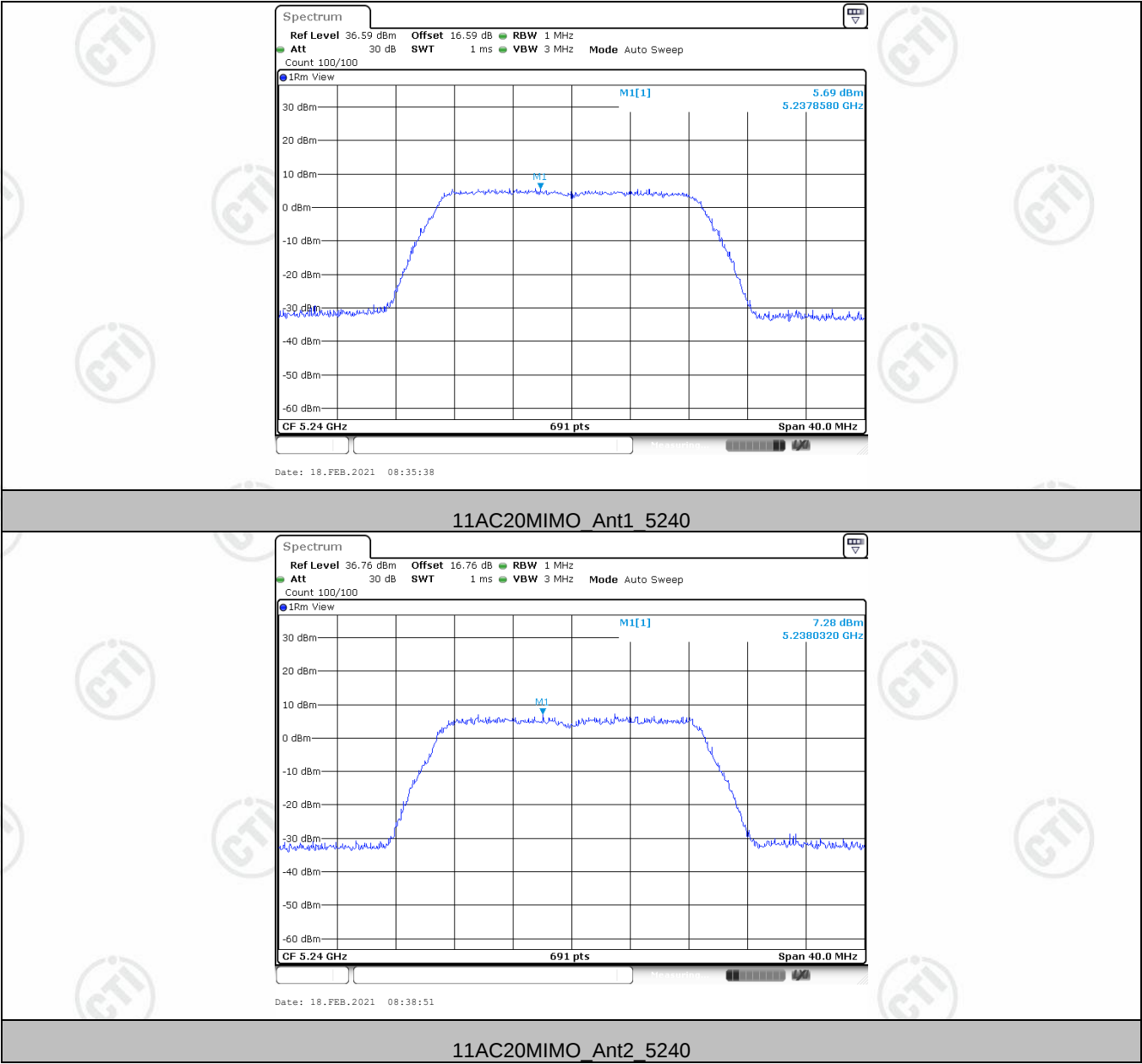


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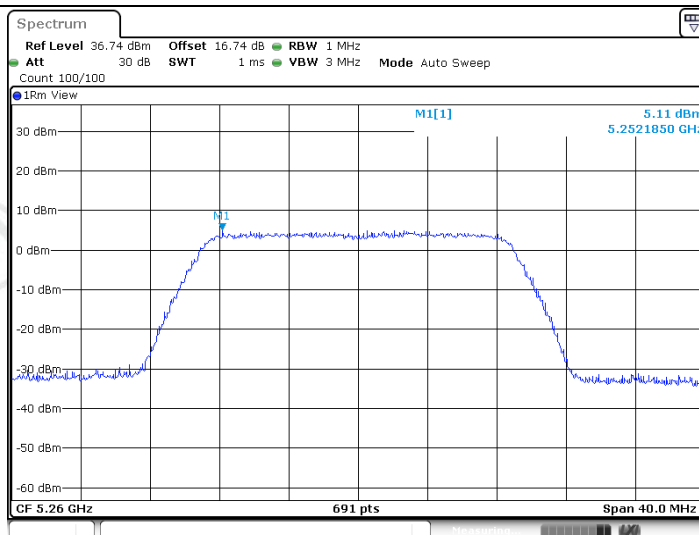


Report No. : EED39N00008304



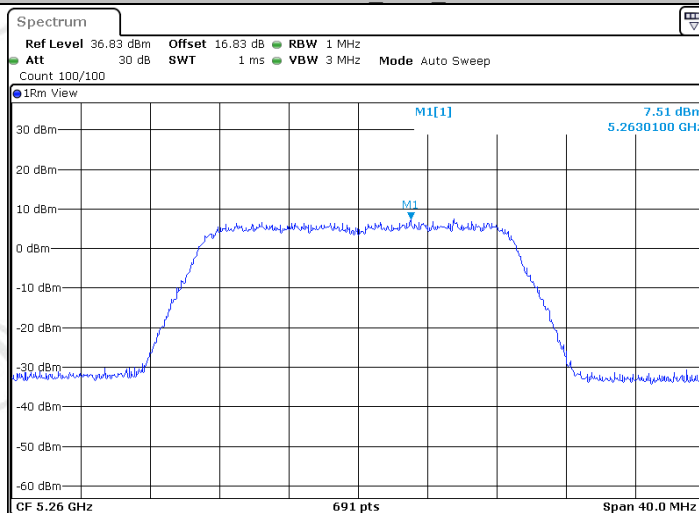


Report No. : EED39N00008304



Date: 18.FEB.2021 08:41:30

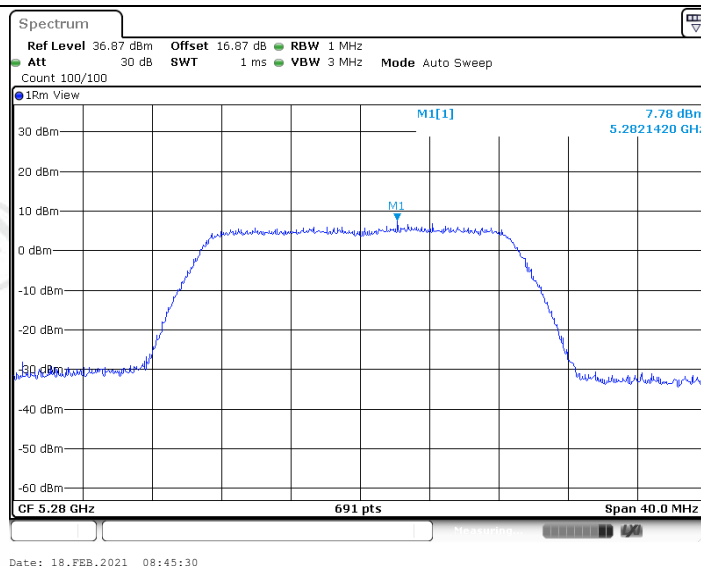
11AC20MIMO_Ant1_5260



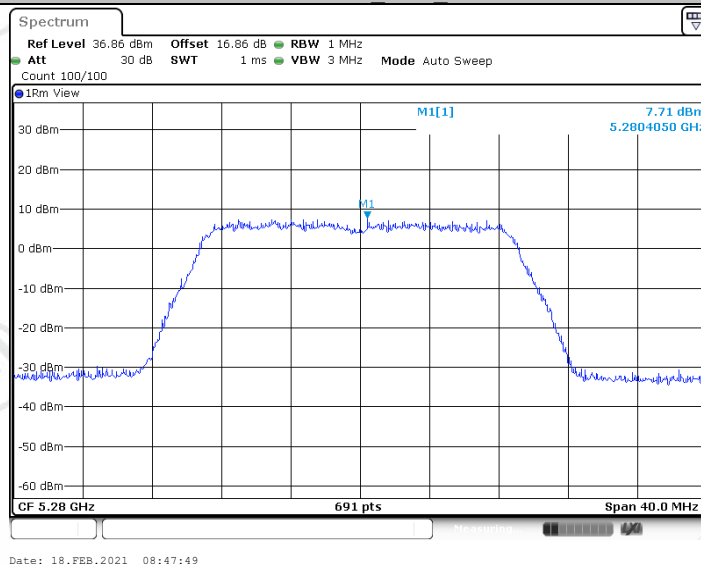
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11AC20MIMO_Ant2_5260

Report No. : EED39N00008304



11AC20MIMO_Ant1_5280



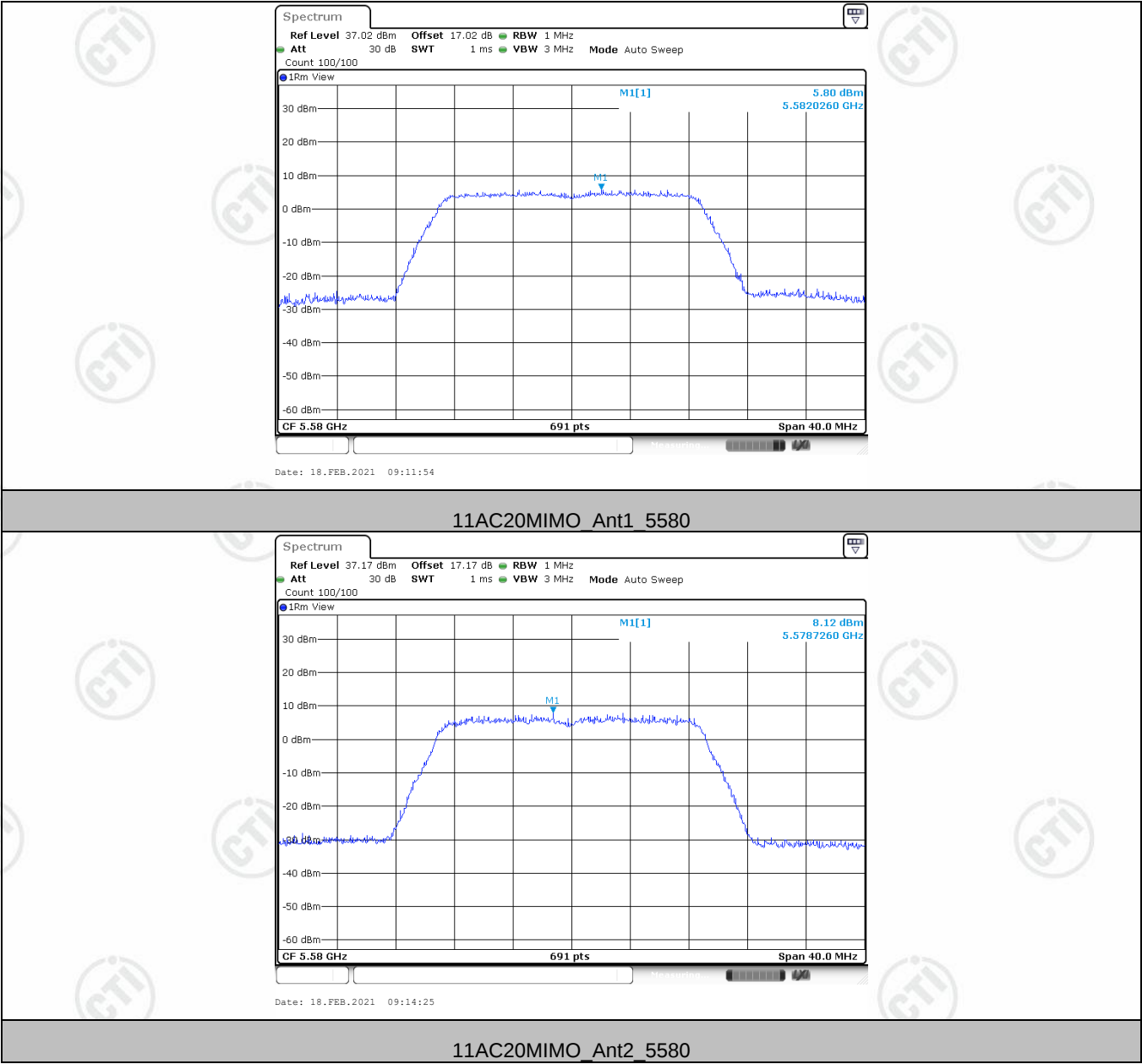
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Report No. : EED39N00008304



Report No. : EED39N00008304





Report No. : EED39N00008304



Report No. : EED39N00008304



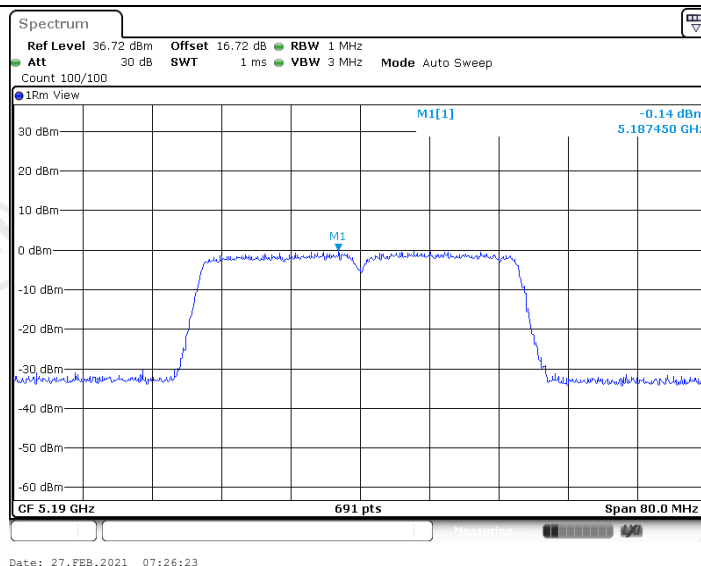
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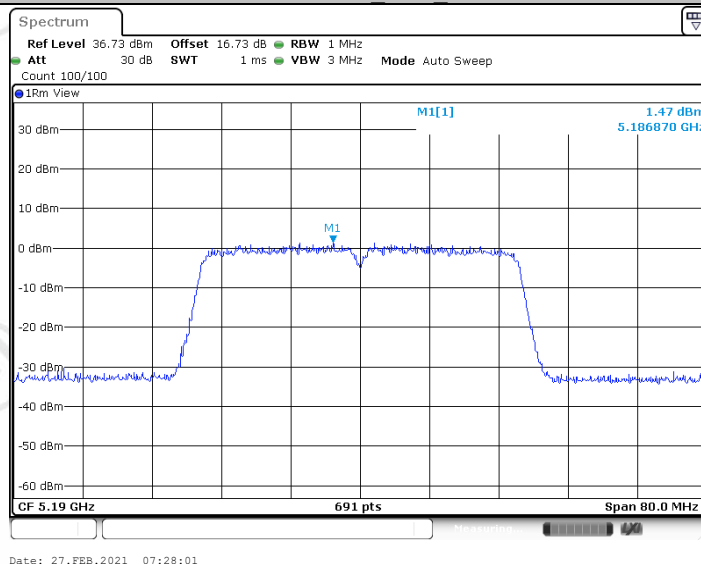
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Report No. : EED39N00008304

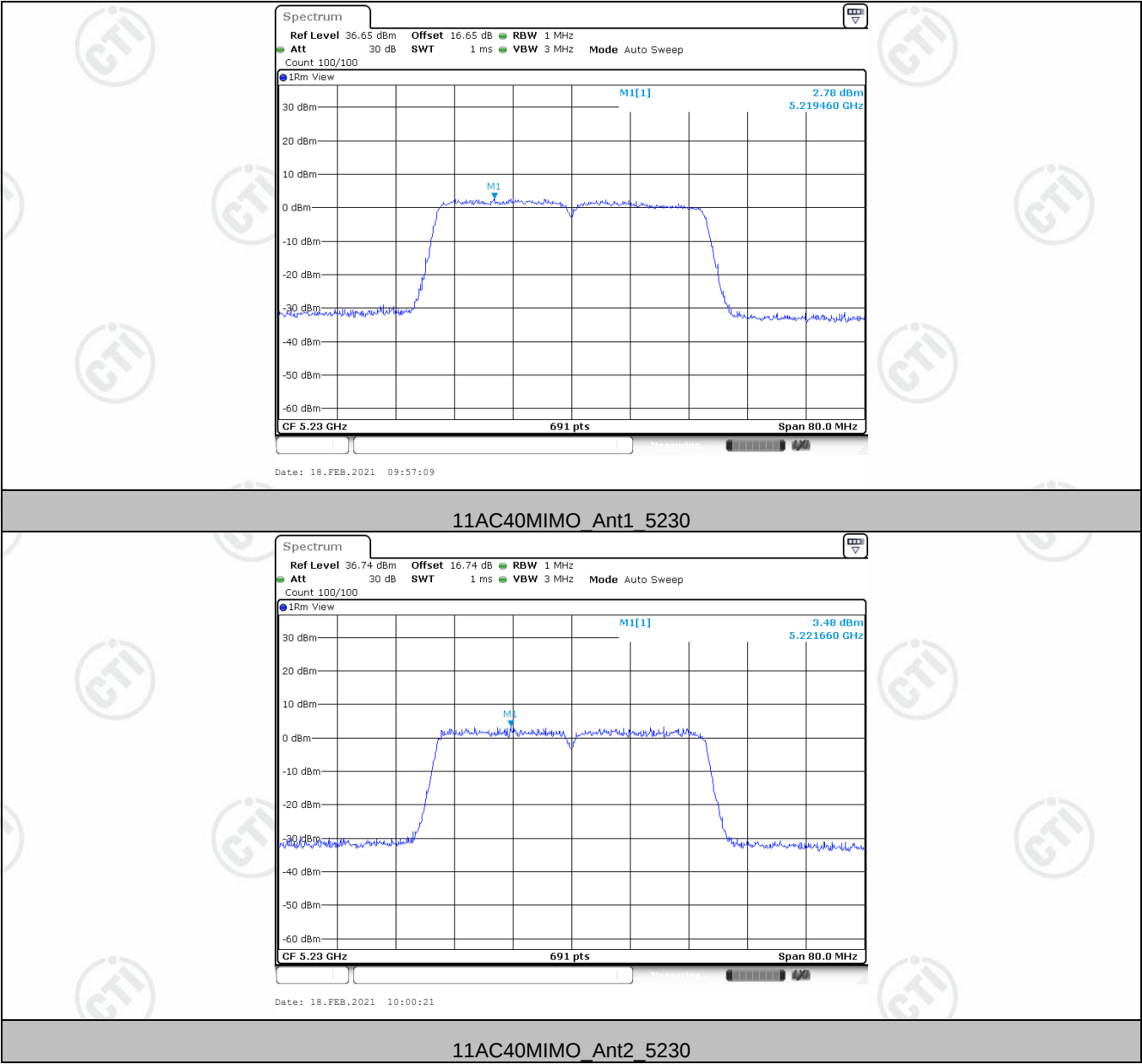


11AC40MIMO_Ant1_5190

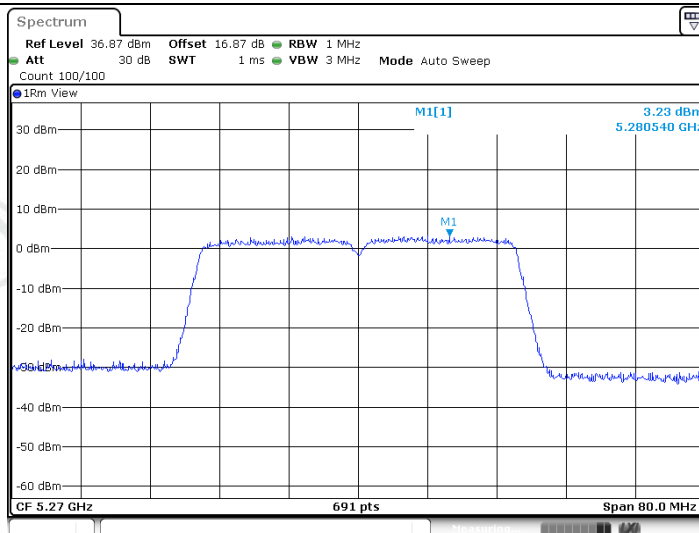


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Report No. : EED39N00008304

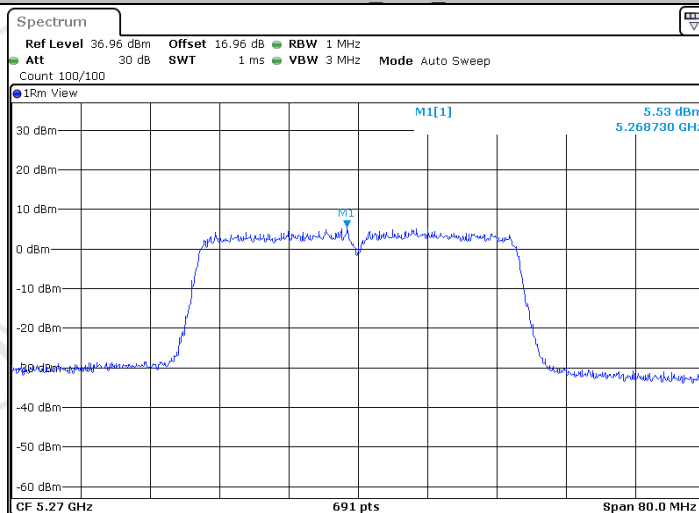


Report No. : EED39N00008304



Date: 18.FEB.2021 10:04:36

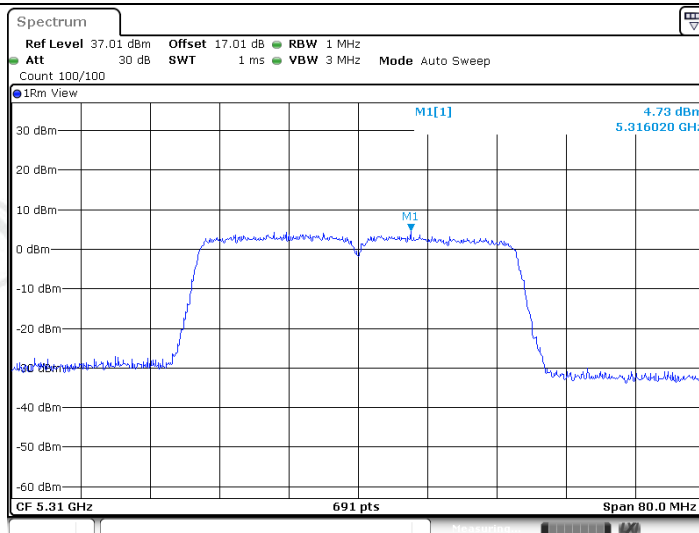
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Date: 18.FEB.2021 10:08:52

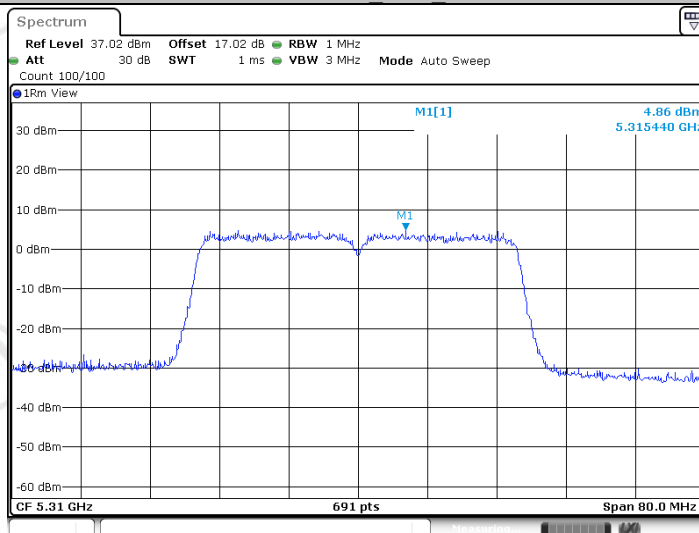
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Report No. : EED39N00008304



Date: 18.FEB.2021 10:11:07

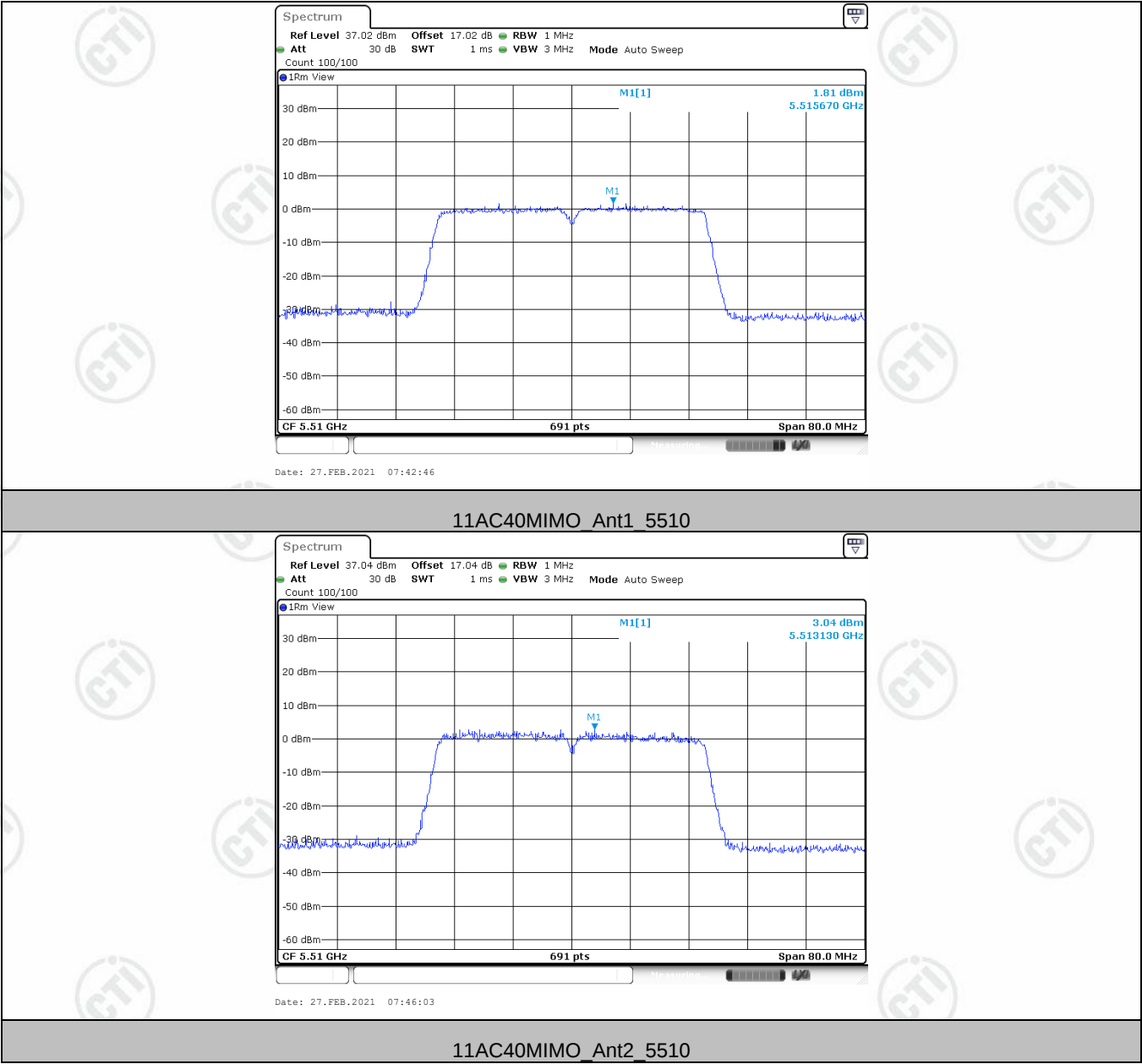
11AC40MIMO_Ant1_5310



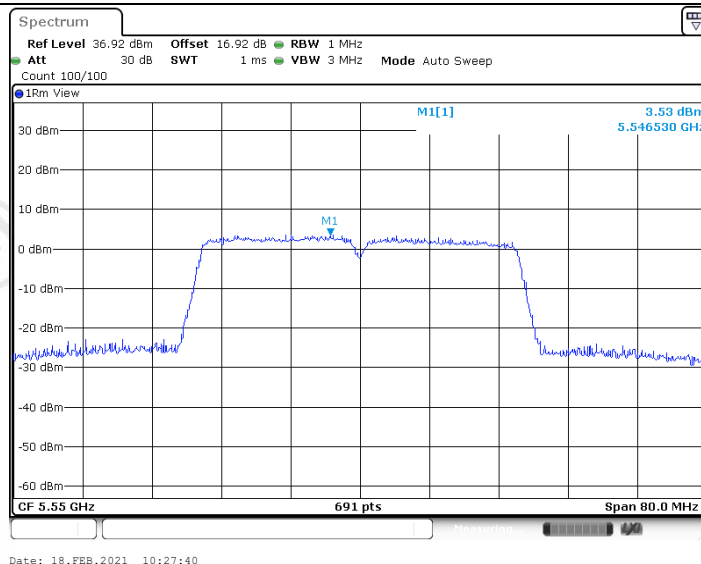
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11AC40MIMO_Ant2_5310

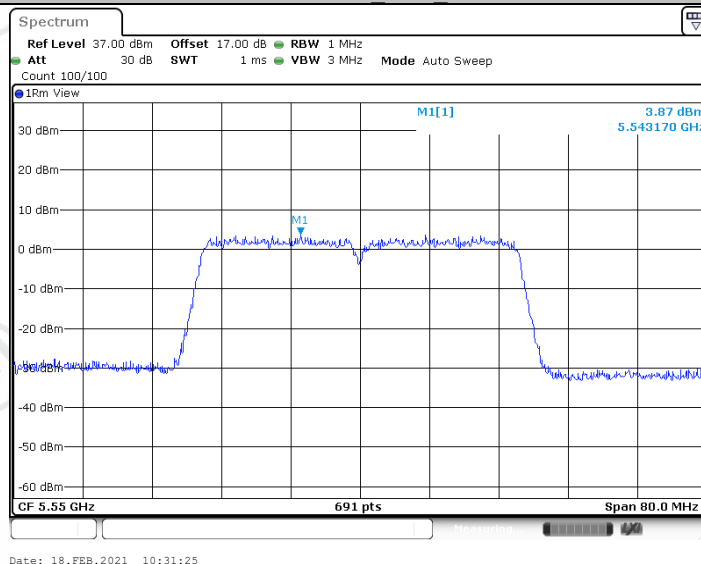
Report No. : EED39N00008304



Report No. : EED39N00008304

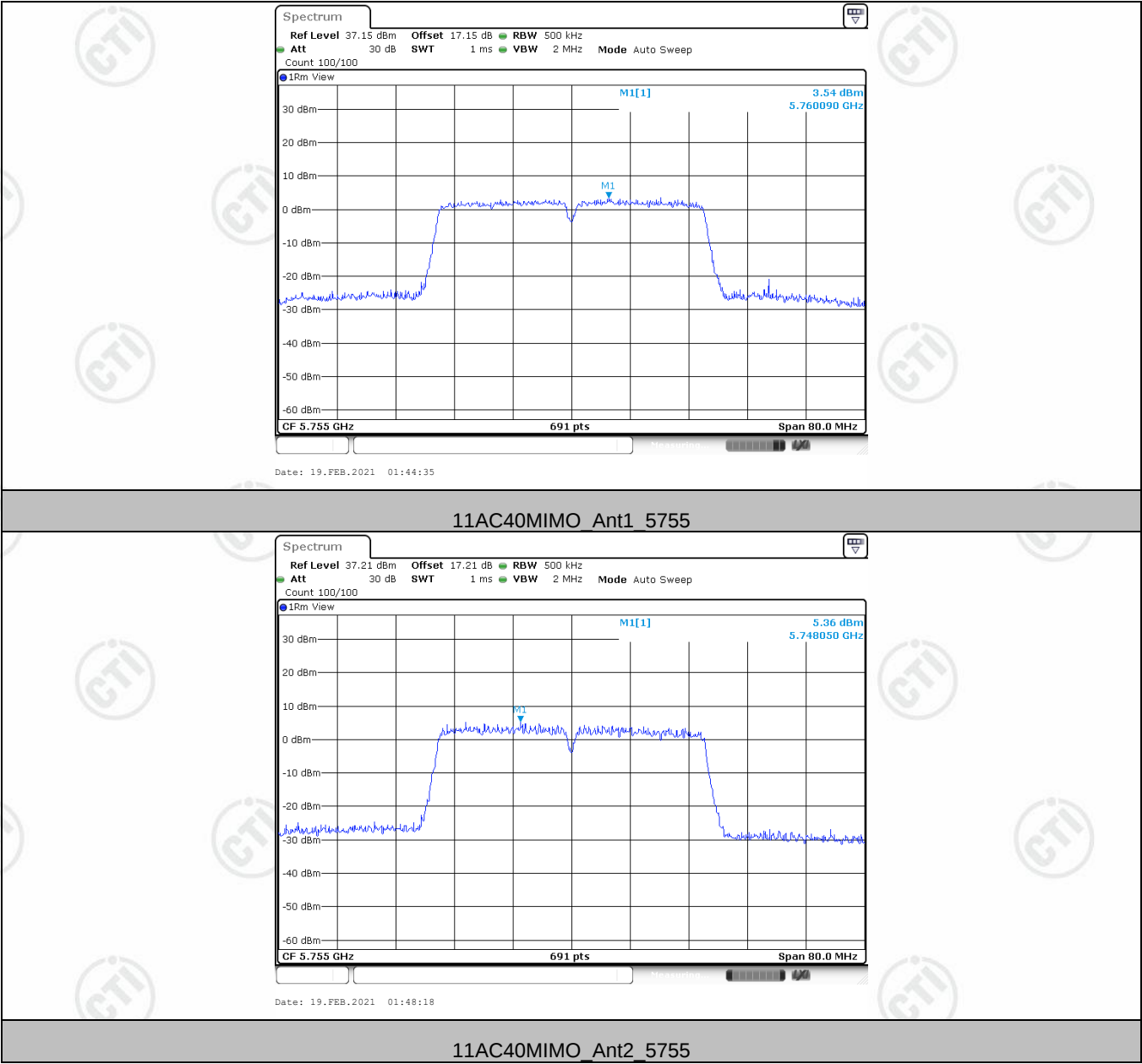


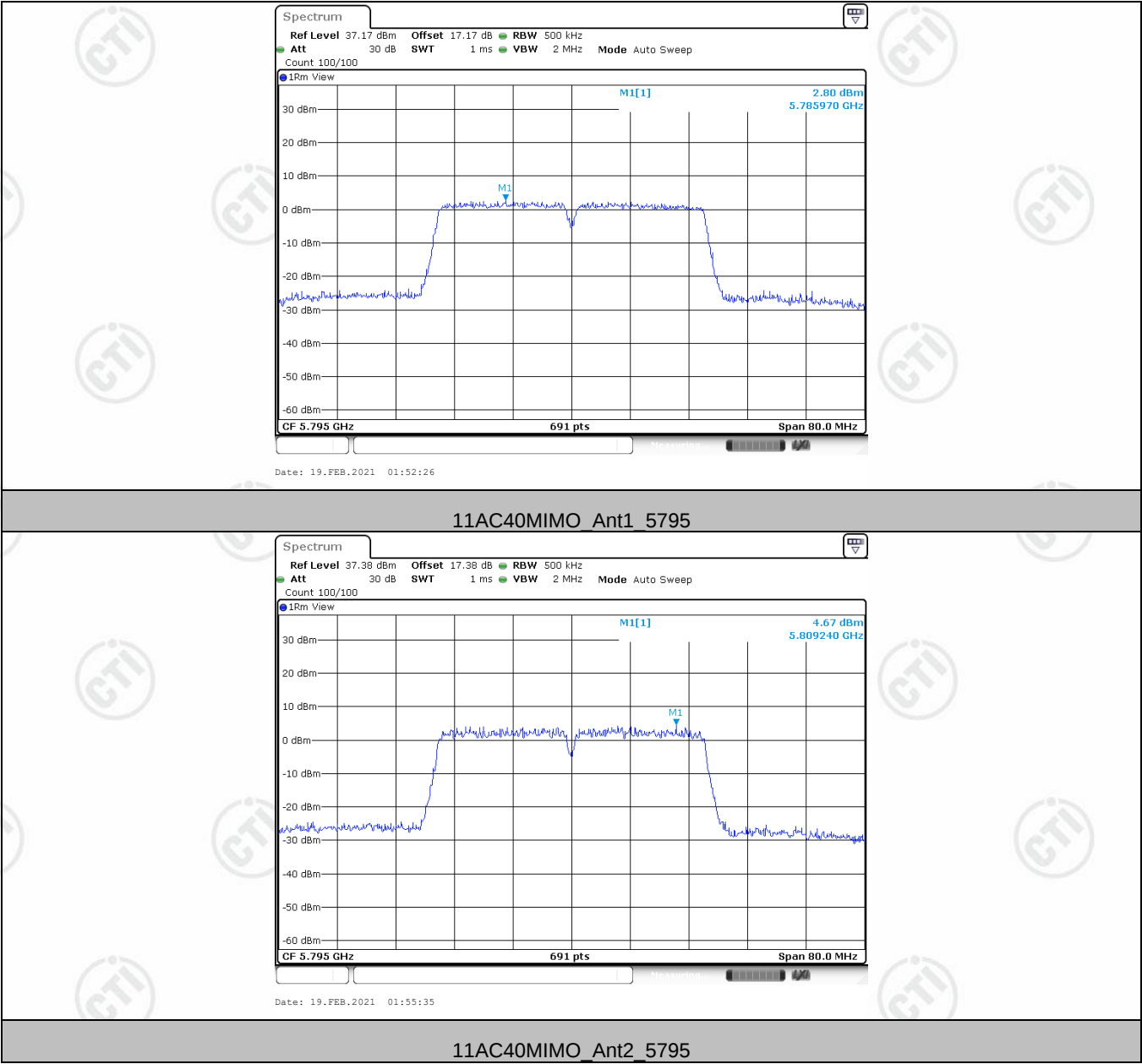
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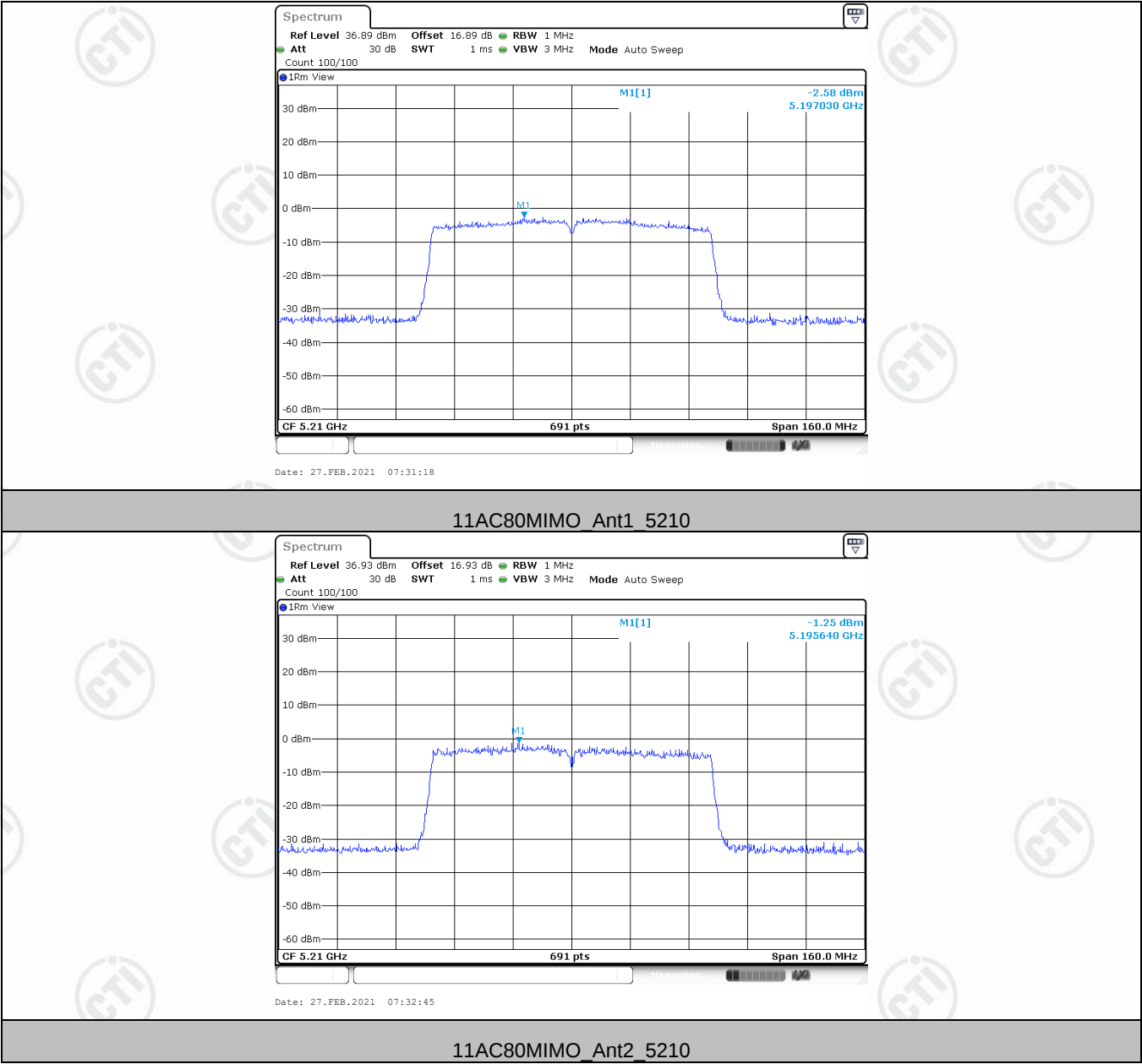
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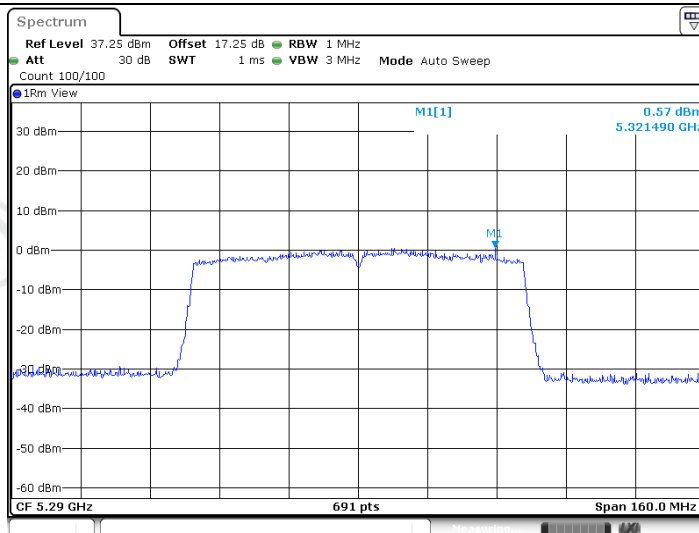




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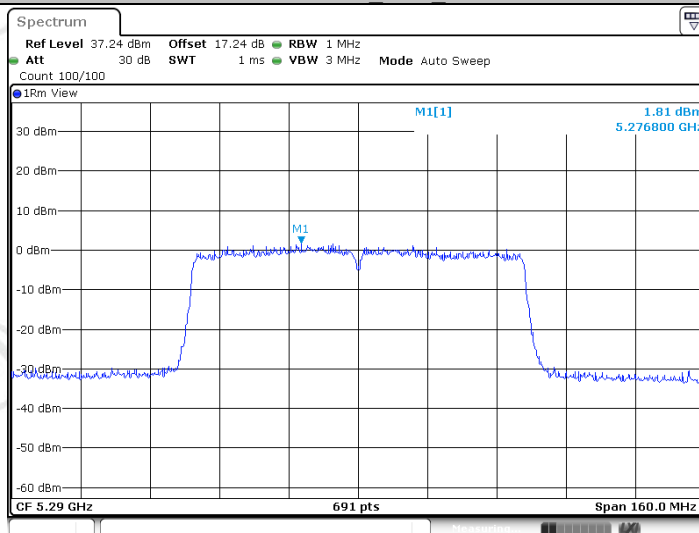


Report No. : EED39N00008304



Date: 25.FEB.2021 07:10:12

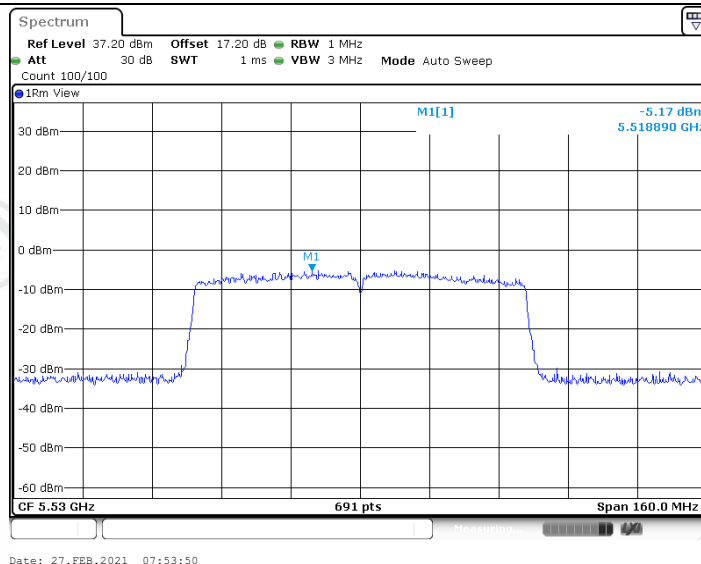
11AC80MIMO_Ant1_5290



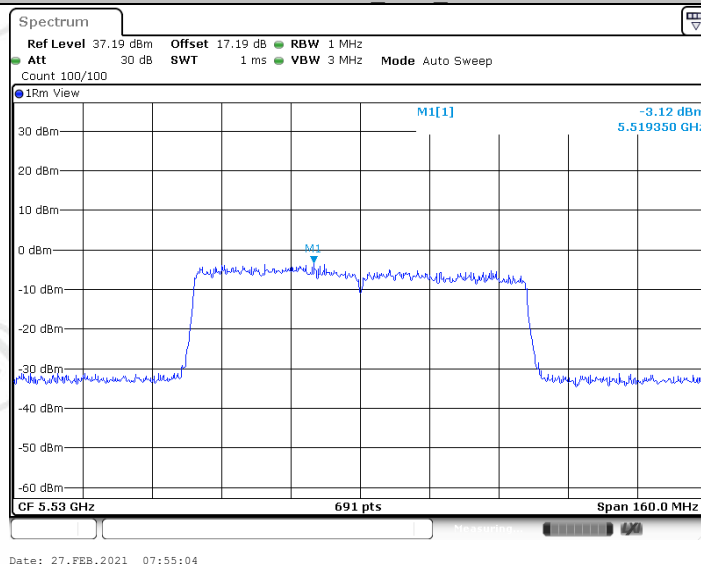
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11AC80MIMO_Ant2_5290

Report No. : EED39N00008304

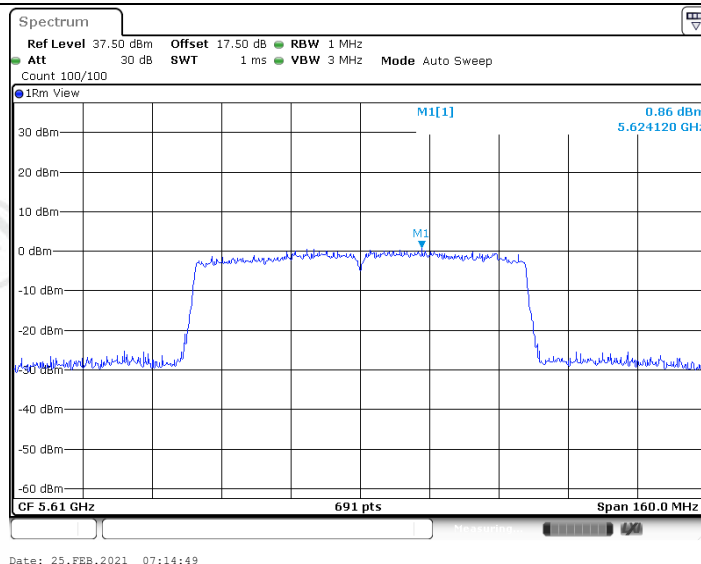


11AC80MIMO_Ant1_5530

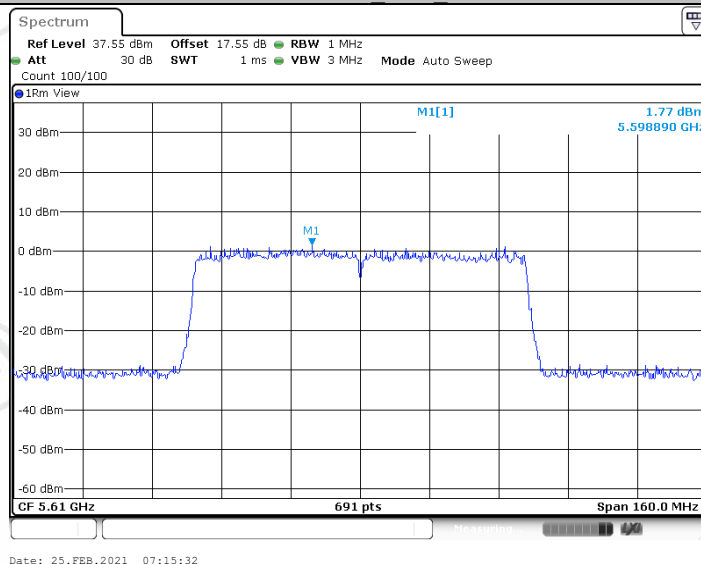


11AC80MIMO_Ant2_5530

Report No. : EED39N00008304

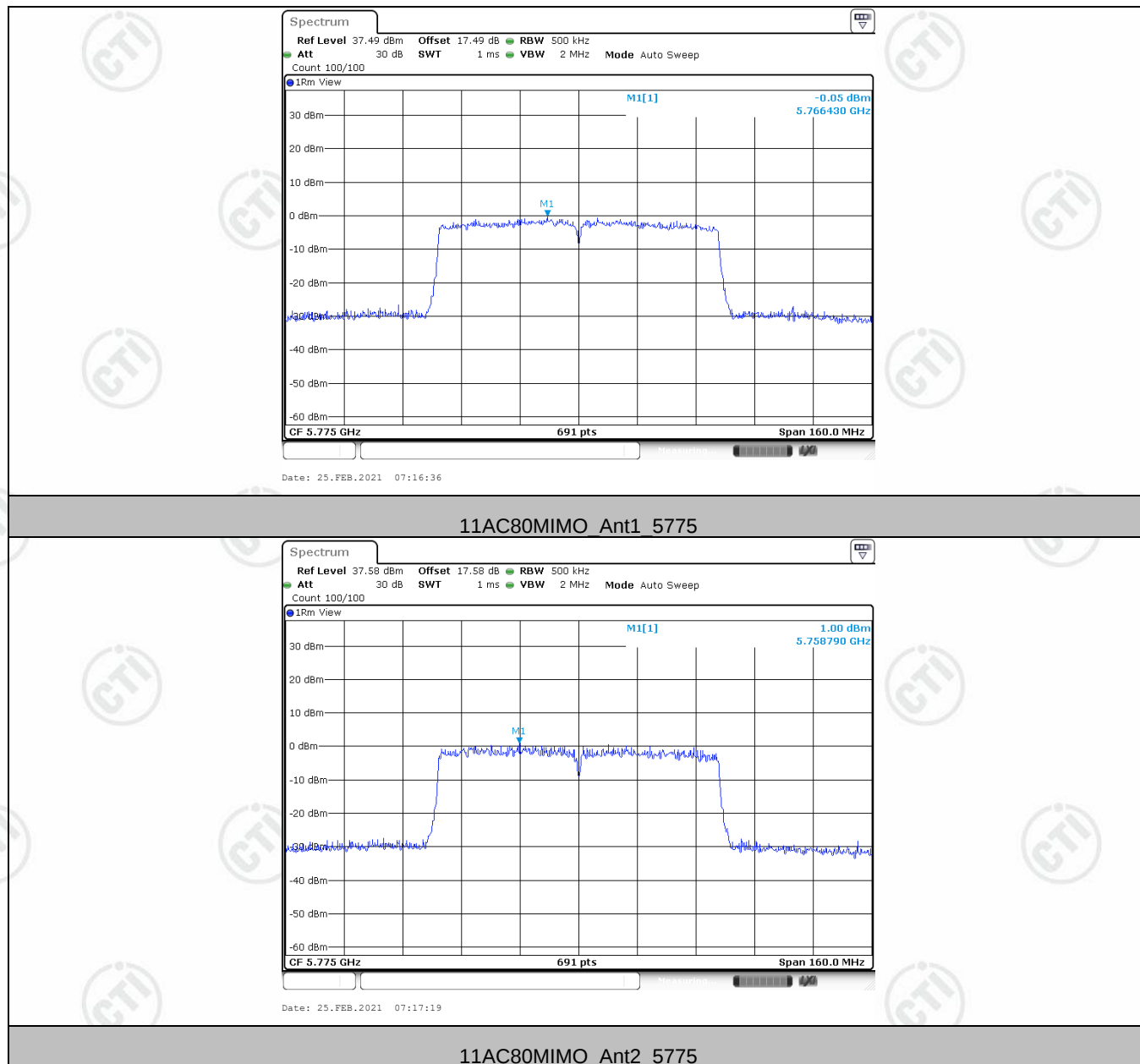


11AC80MIMO_Ant1_5610



11AC80MIMO_Ant2_5610

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Appendix F): Frequency Stability

Test Result:

Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Ant1	5180	NV	NT	-88900	-17.162162	20	PASS
		LV	NT	-88900	-17.162162	20	PASS
		HV	NT	-87900	-16.969112	20	PASS
	5200	NV	NT	-98900	-19.019231	20	PASS
		LV	NT	-99900	-19.211538	20	PASS
		HV	NT	-99900	-19.211538	20	PASS
	5240	NV	NT	-101900	-19.446565	20	PASS
		LV	NT	-100900	-19.255725	20	PASS
		HV	NT	-99900	-19.064885	20	PASS
	5260	NV	NT	-102900	-19.562738	20	PASS
		LV	NT	-101900	-19.372624	20	PASS
		HV	NT	-100900	-19.18251	20	PASS
	5280	NV	NT	-101900	-19.299242	20	PASS
		LV	NT	-100900	-19.109848	20	PASS
		HV	NT	-100900	-19.109848	20	PASS
	5320	NV	NT	-101900	-19.154135	20	PASS
		LV	NT	-100900	-18.966165	20	PASS
		HV	NT	-100900	-18.966165	20	PASS
	5500	NV	NT	-105900	-19.254545	20	PASS
		LV	NT	-104900	-19.072727	20	PASS
		HV	NT	-103900	-18.890909	20	PASS
	5580	NV	NT	-106900	-19.157706	20	PASS
		LV	NT	-105900	-18.978495	20	PASS
		HV	NT	-105900	-18.978495	20	PASS
	5700	NV	NT	-109900	-19.280702	20	PASS
		LV	NT	-107900	-18.929825	20	PASS
		HV	NT	-107900	-18.929825	20	PASS
	5745	NV	NT	-108900	-18.955614	20	PASS
		LV	NT	-107900	-18.781549	20	PASS
		HV	NT	-107900	-18.781549	20	PASS
	5785	NV	NT	-109900	-18.997407	20	PASS
		LV	NT	-108900	-18.824546	20	PASS

		HV	NT	-108900	-18.824546	20	PASS
	5825	NV	NT	-109900	-18.866953	20	PASS
		LV	NT	-108900	-18.695279	20	PASS
		HV	NT	-108900	-18.695279	20	PASS
Ant2	5180	NV	NT	-98900	-19.092664	20	PASS
		LV	NT	-98900	-19.092664	20	PASS
		HV	NT	-98900	-19.092664	20	PASS
	5200	NV	NT	-99900	-19.211538	20	PASS
		LV	NT	-98900	-19.019231	20	PASS
		HV	NT	-97900	-18.826923	20	PASS
	5240	NV	NT	-97900	-18.683206	20	PASS
		LV	NT	-97900	-18.683206	20	PASS
		HV	NT	-96900	-18.492366	20	PASS
	5260	NV	NT	-98900	-18.802281	20	PASS
		LV	NT	-97900	-18.612167	20	PASS
		HV	NT	-97900	-18.612167	20	PASS
	5280	NV	NT	-98900	-18.731061	20	PASS
		LV	NT	-97900	-18.541667	20	PASS
		HV	NT	-97900	-18.541667	20	PASS
	5320	NV	NT	-99900	-18.778195	20	PASS
		LV	NT	-98900	-18.590226	20	PASS
		HV	NT	-98900	-18.590226	20	PASS
	5500	NV	NT	-101900	-18.527273	20	PASS
		LV	NT	-101900	-18.527273	20	PASS
		HV	NT	-101900	-18.527273	20	PASS
	5580	NV	NT	-105900	-18.978495	20	PASS
		LV	NT	-104900	-18.799283	20	PASS
		HV	NT	-103900	-18.620072	20	PASS
	5700	NV	NT	-106900	-18.754386	20	PASS
		LV	NT	-105900	-18.578947	20	PASS
		HV	NT	-105900	-18.578947	20	PASS
	5745	NV	NT	-106900	-18.607485	20	PASS
		LV	NT	-106900	-18.607485	20	PASS
		HV	NT	-105900	-18.43342	20	PASS
	5785	NV	NT	-108900	-18.824546	20	PASS
		LV	NT	-107900	-18.651685	20	PASS

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	5825	HV	NT	-106900	-18.478825	20	PASS
		NV	NT	-110900	-19.038627	20	PASS
		LV	NT	-109900	-18.866953	20	PASS
		HV	NT	-108900	-18.695279	20	PASS

Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Ant1	5180	NV	-30	-90900	-17.548263	20	PASS
		NV	-20	-92900	-17.934363	20	PASS
		NV	-10	-93900	-18.127413	20	PASS
		NV	0	-94900	-18.320463	20	PASS
		NV	10	-94900	-18.320463	20	PASS
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		NV	30	-95900	-18.513514	20	PASS
		NV	40	-95900	-18.513514	20	PASS
		NV	50	-95900	-18.513514	20	PASS
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		NV	0	-100900	-19.403846	20	PASS
		NV	10	-99900	-19.211538	20	PASS
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		NV	50	-99900	-19.211538	20	PASS
	5240	NV	-30	-99900	-19.064885	20	PASS
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		NV	40	-99900	-19.064885	20	PASS
		NV	50	-99900	-19.064885	20	PASS
	5260	NV	-30	-100900	-19.18251	20	PASS
		NV	-20	-100900	-19.18251	20	PASS

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		NV	50	-99900	-18.992395	20	PASS
	5280	NV	-30	-100900	-19.109848	20	PASS
		NV	-20	-99900	-18.920455	20	PASS
		NV	-10	-99900	-18.920455	20	PASS
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		NV	50	-99900	-18.920455	20	PASS
		NV	-30	-100900	-18.966165	20	PASS
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		NV	-10	-100900	-18.966165	20	PASS
		NV	0	-99900	-18.778195	20	PASS
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		NV	40	-99900	-18.778195	20	PASS
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	5580	NV	-20	-105900	-18.978495	20	PASS

		NV	-10	-104900	-18.799283	20	PASS
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	5745	NV	-20	-107900	-18.781549	20	PASS
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		NV	-20	-107900	-18.651685	20	PASS
	5785	NV	-10	-107900	-18.651685	20	PASS
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Ant2		NV	-10	-108900	-18.695279	20	PASS
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		NV	-20	-106900	-18.478825	20	PASS
	5785	NV	-10	-106900	-18.478825	20	PASS
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		NV	-30	-107900	-18.523605	20	PASS
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		NV	-10	-107900	-18.523605	20	PASS
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		NV	30	-106900	-18.351931	20	PASS
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		NV	50	-106900	-18.351931	20	PASS