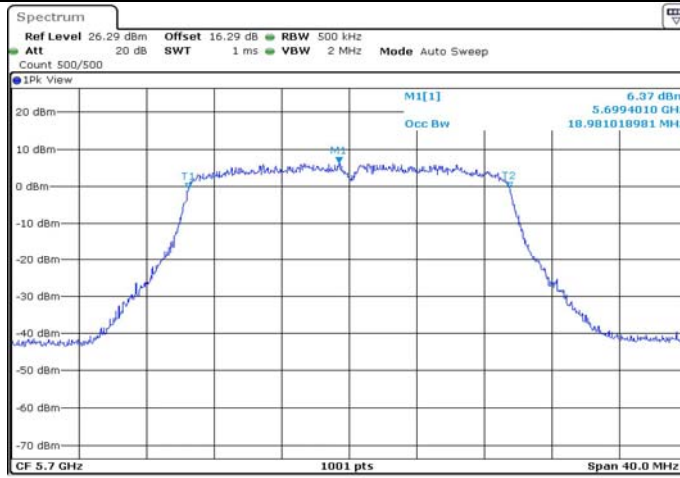


11AX20MIMO Ant1 5700



11AX20MIMO Ant2 5700



11AX40MIMO Ant1 5270

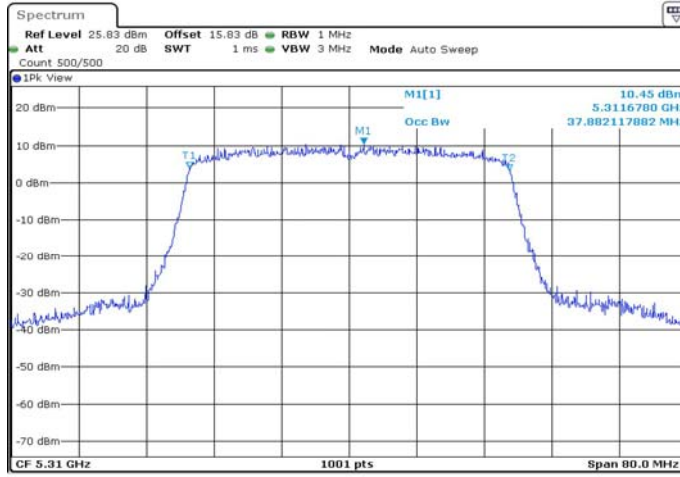


11AX40MIMO Ant2 5270



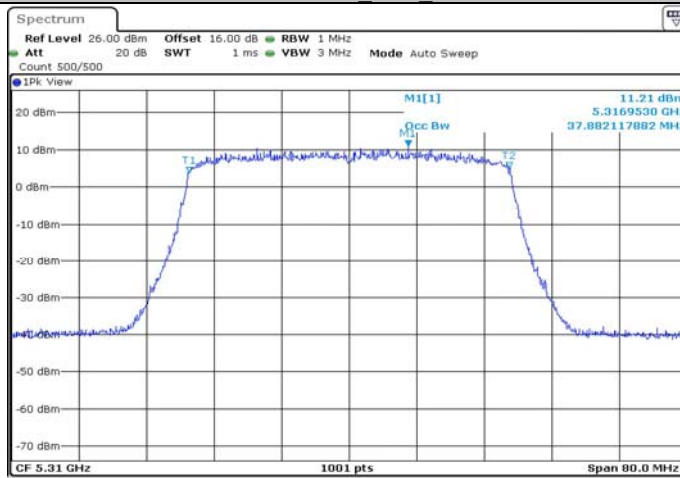
Date: 11.JAN.2021 13:19:50

11AX40MIMO Ant1 5310

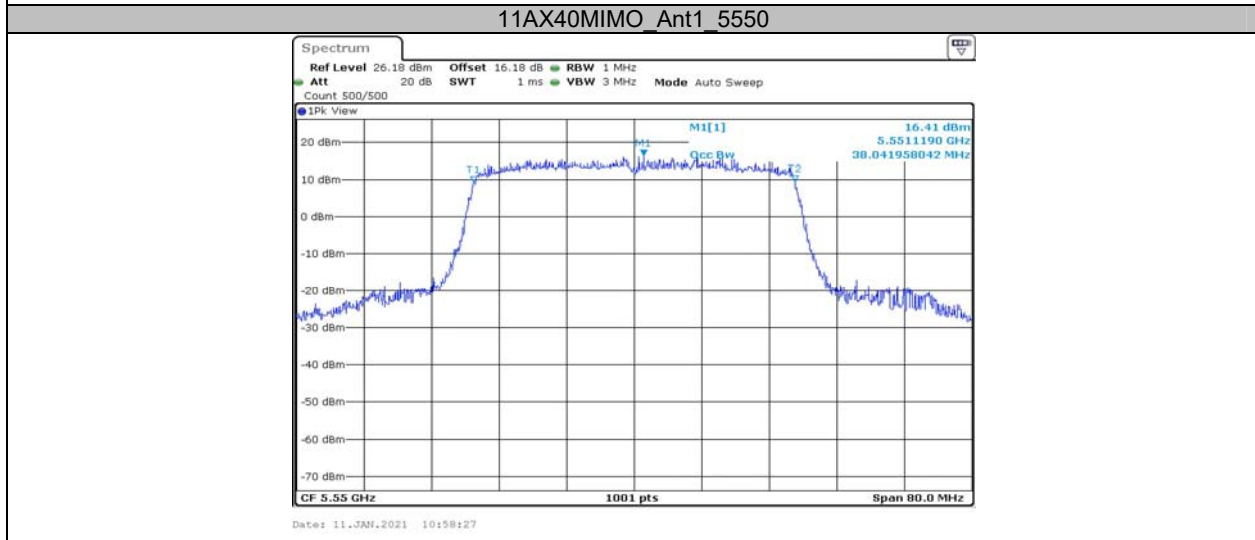
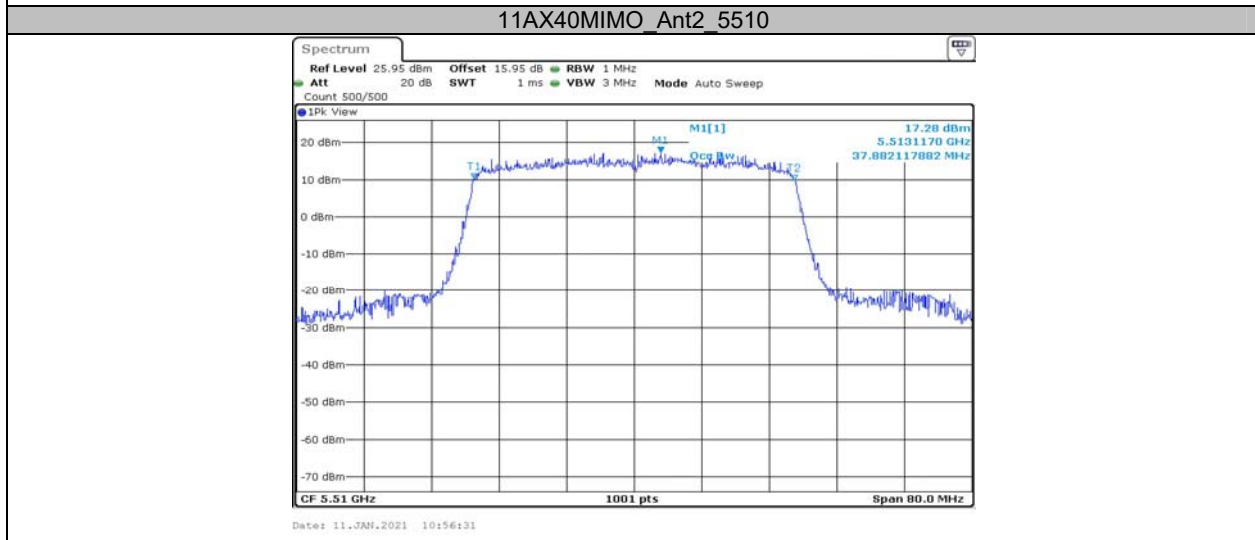
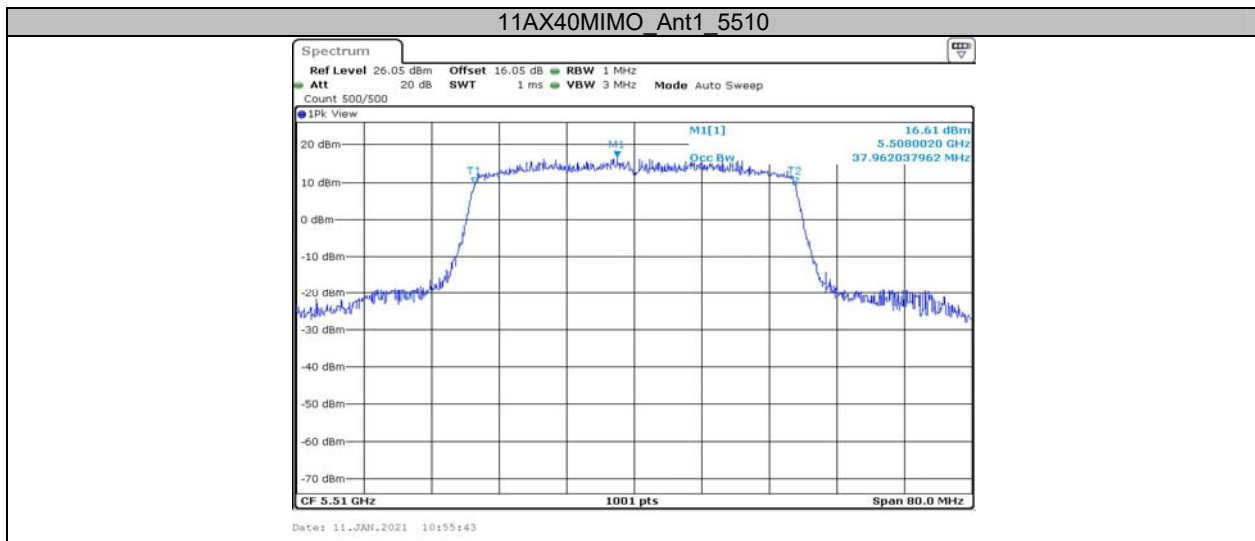


Date: 11.JAN.2021 13:25:18

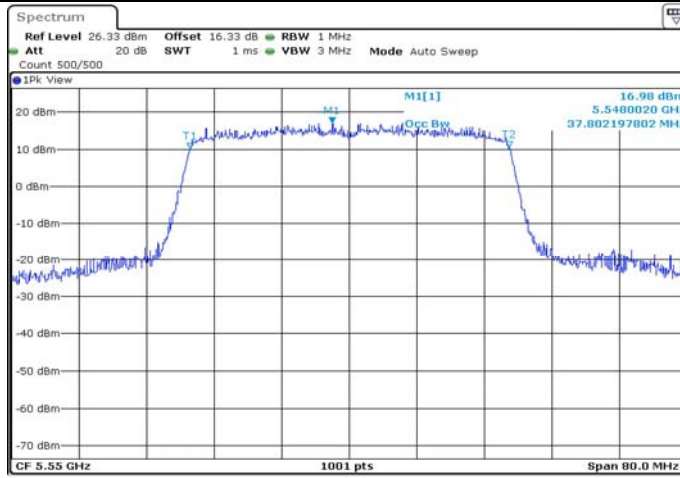
11AX40MIMO Ant2 5310



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



11AX40MIMO Ant2 5550



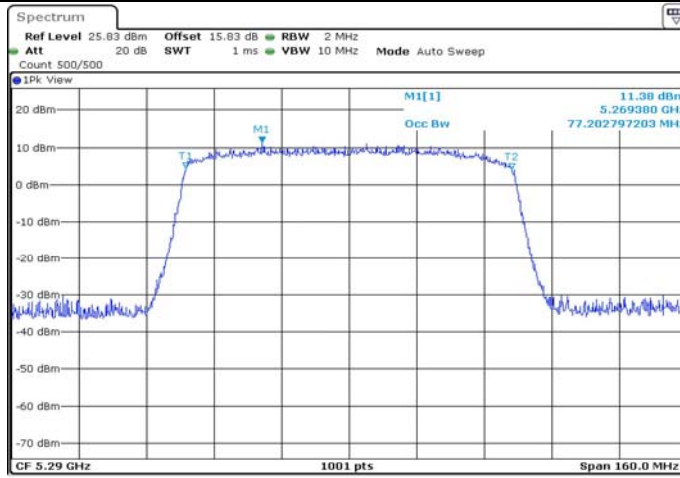
11AX40MIMO Ant1 5670



11AX40MIMO Ant2 5670

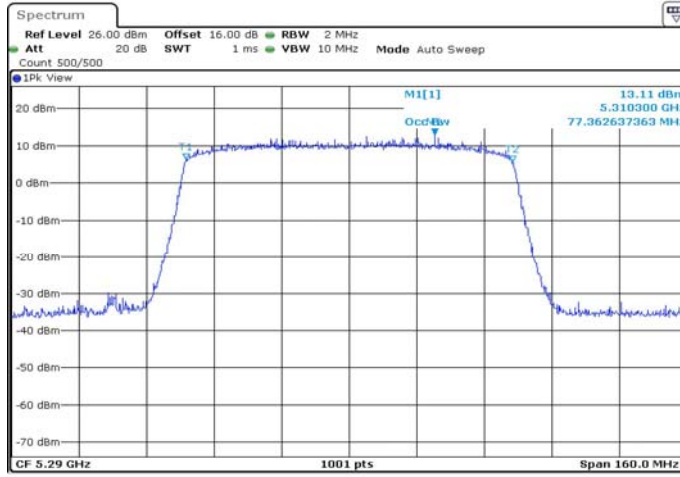


11AX80MIMO Ant1 5290



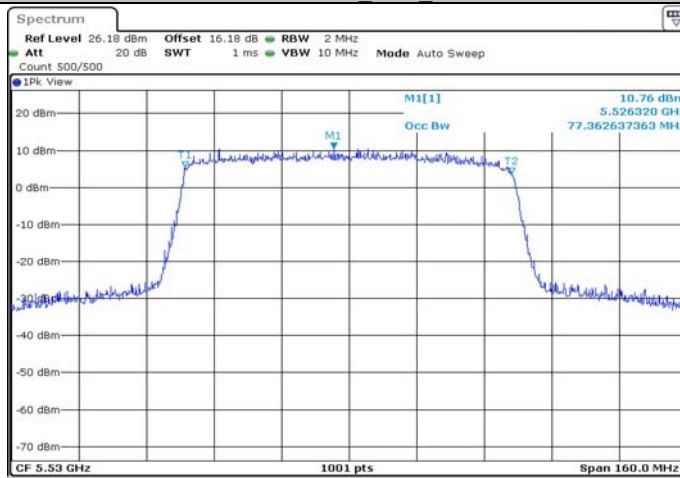
Date: 5.FEB.2021 20:01:32

11AX80MIMO Ant2 5290



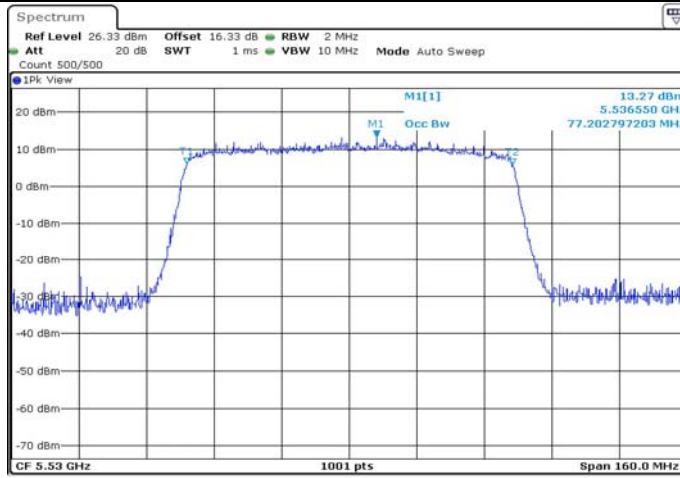
Date: 5.FEB.2021 20:02:33

11AX80MIMO Ant1 5530



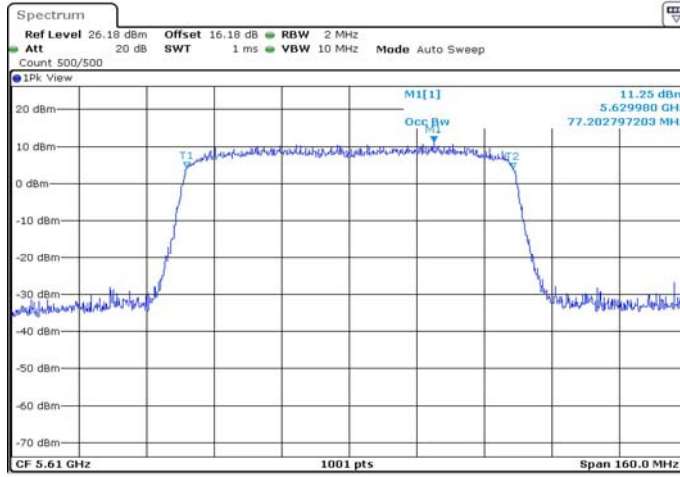
Date: 5.FEB.2021 20:04:38

11AX80MIMO Ant2 5530



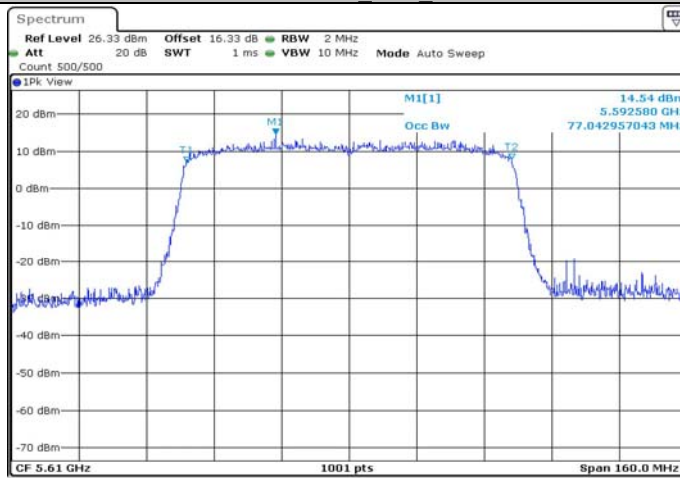
Date: 5.FEB.2021 20:05:31

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	
11N20MIMO	Ant1	5700	4.09	<=10	PASS	
	Ant2	5700	4.17	<=10	PASS	
	total	5700	6.80	<=10	PASS	
	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	
11N40MIMO	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	
	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	
11AC20MIMO	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.

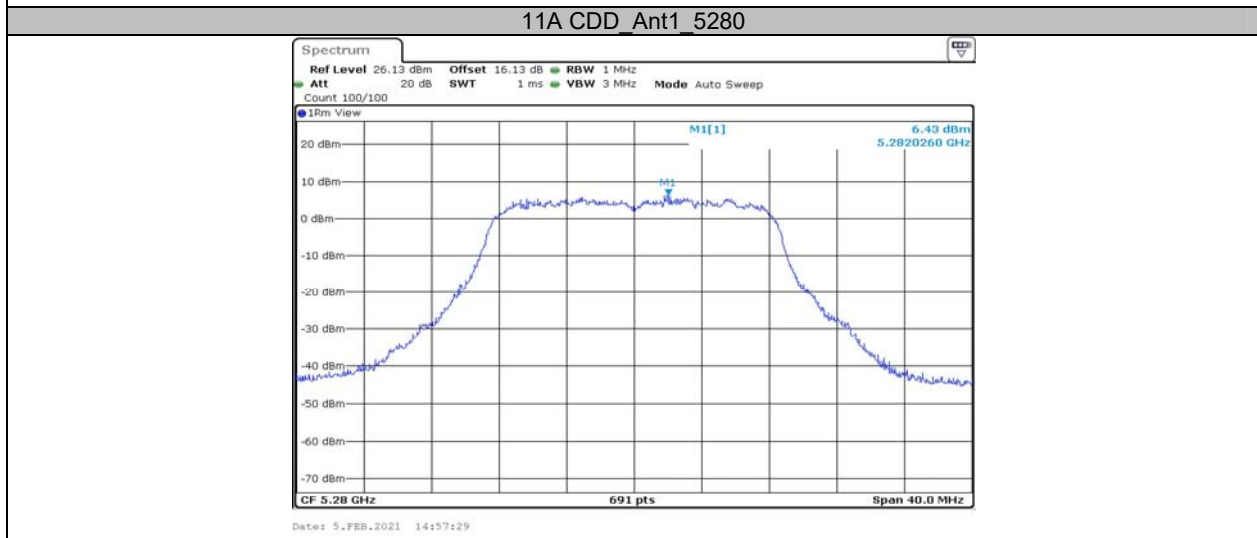
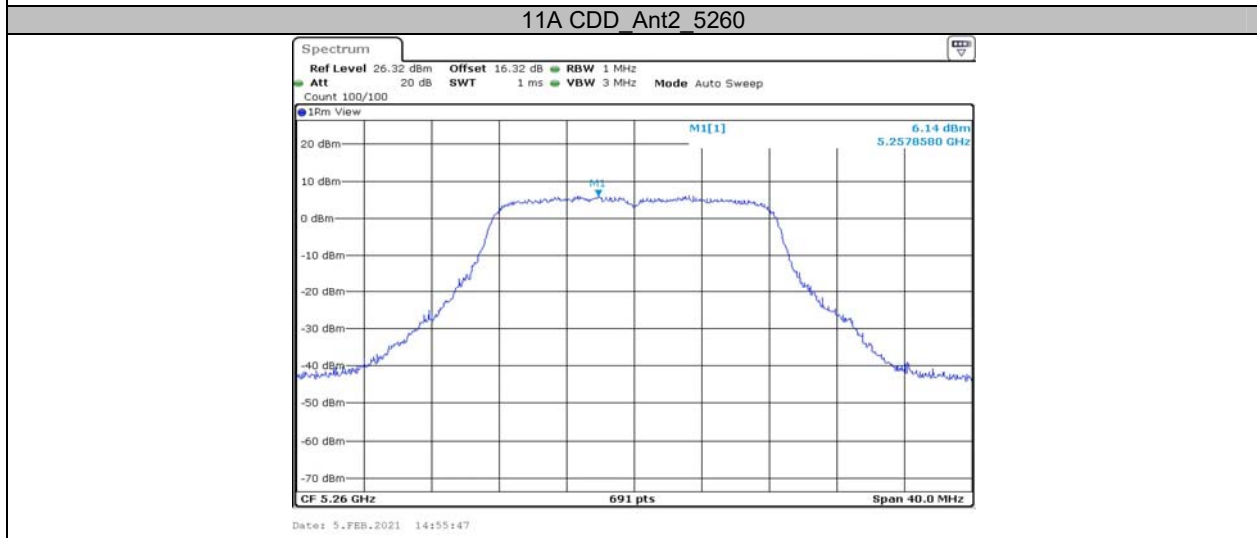
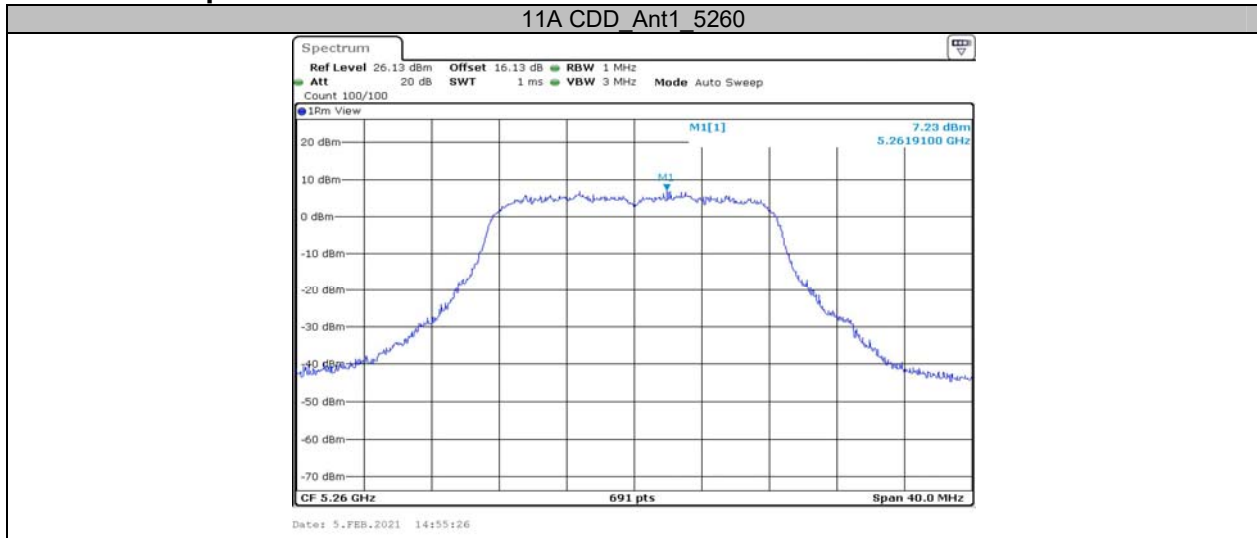
Directional gain = $G_{ANT} + \text{Array Gain}$

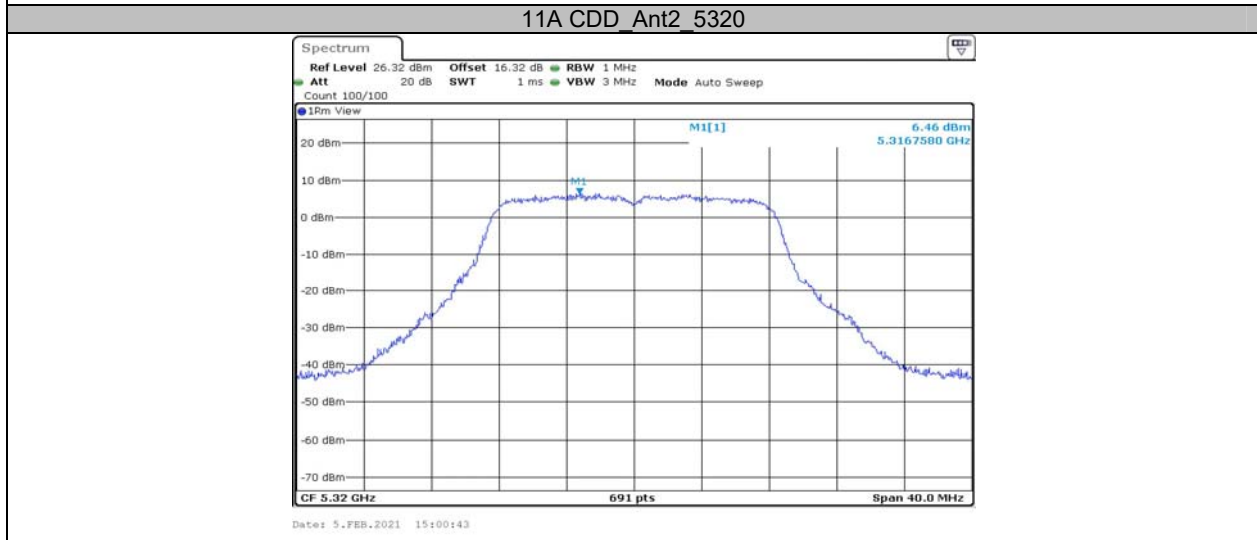
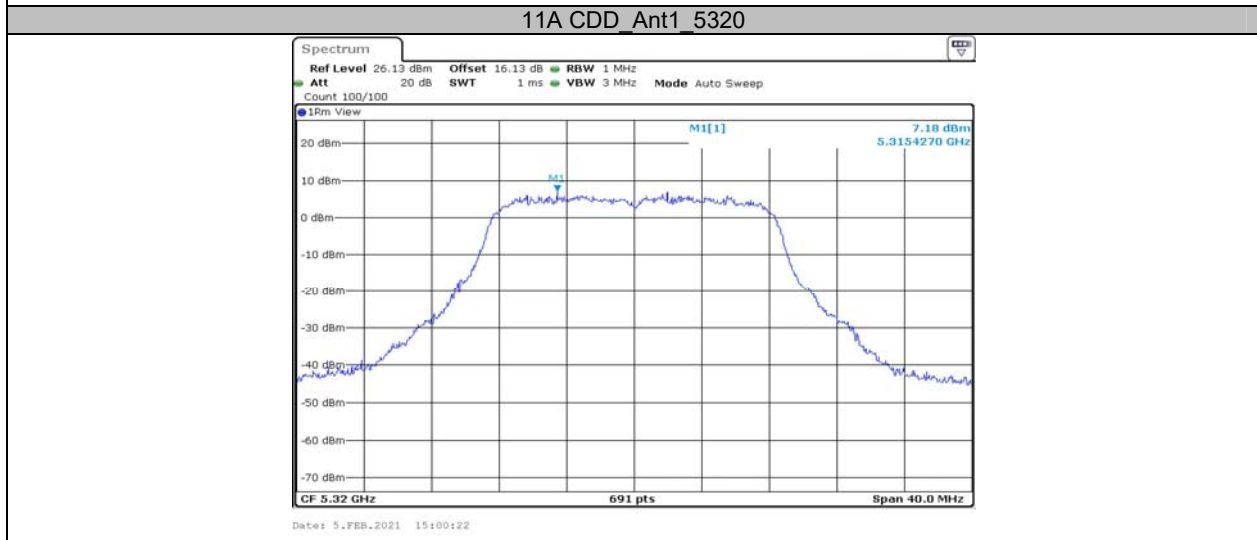
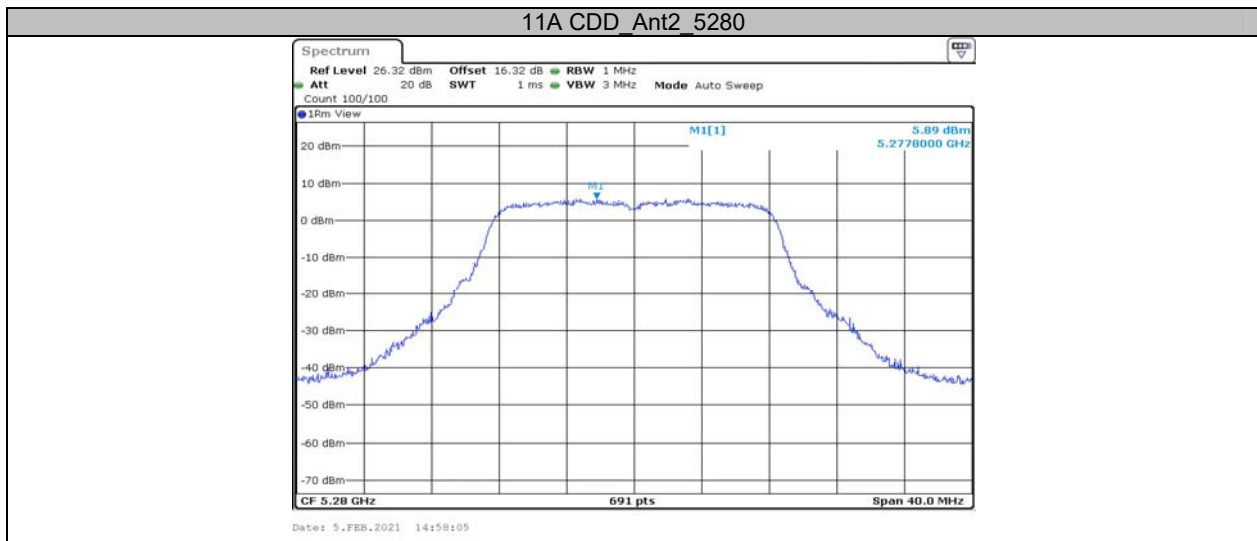
$\text{Array Gain} = 10 * \log(N_{ant}/N_{ss})$ dB

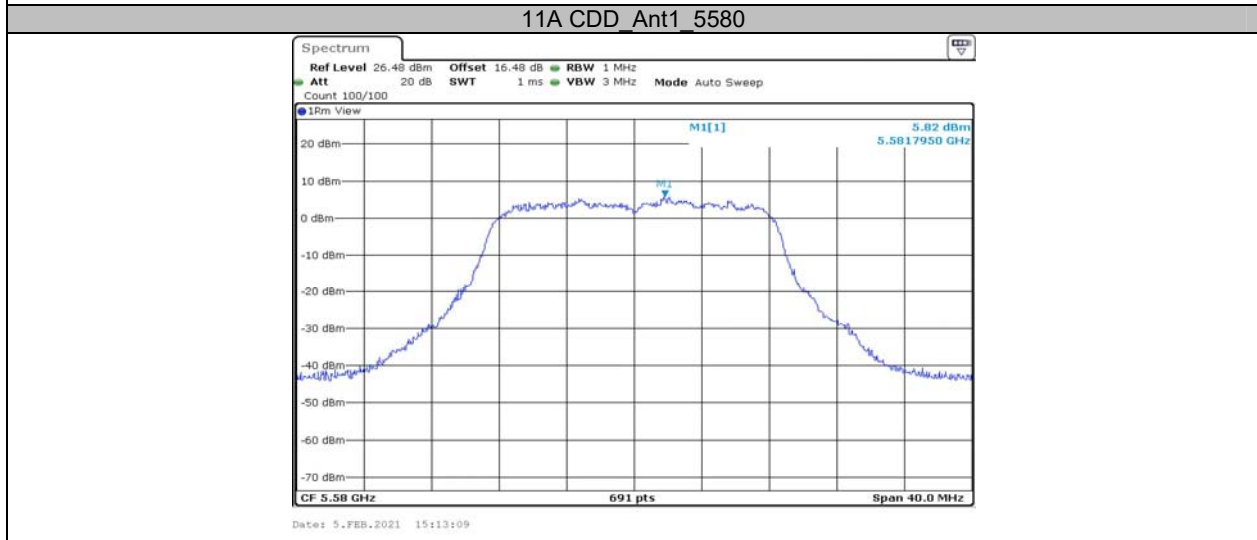
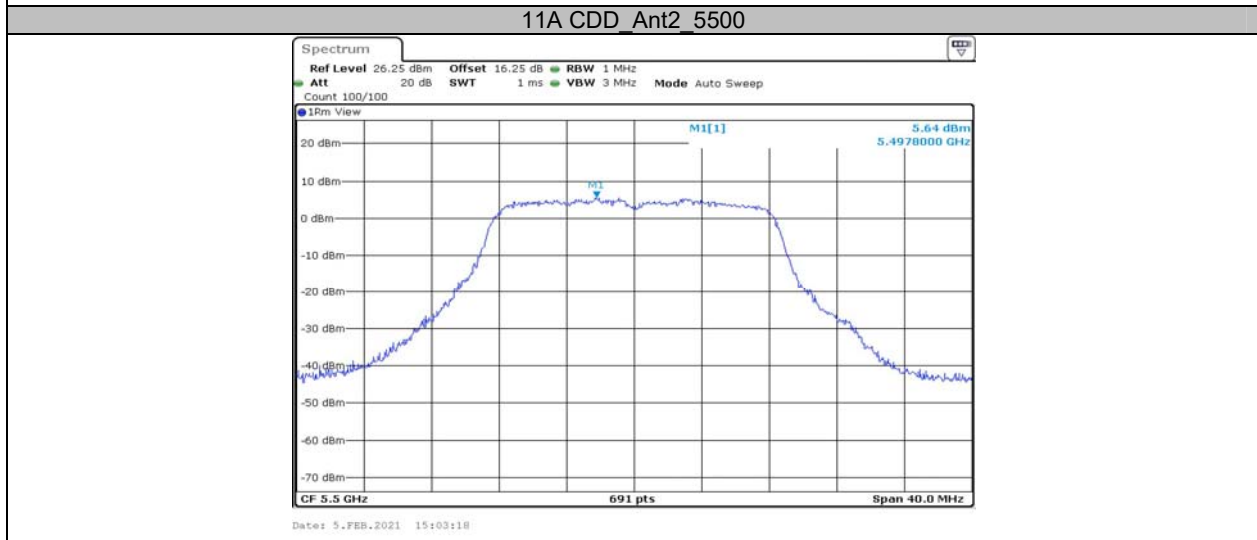
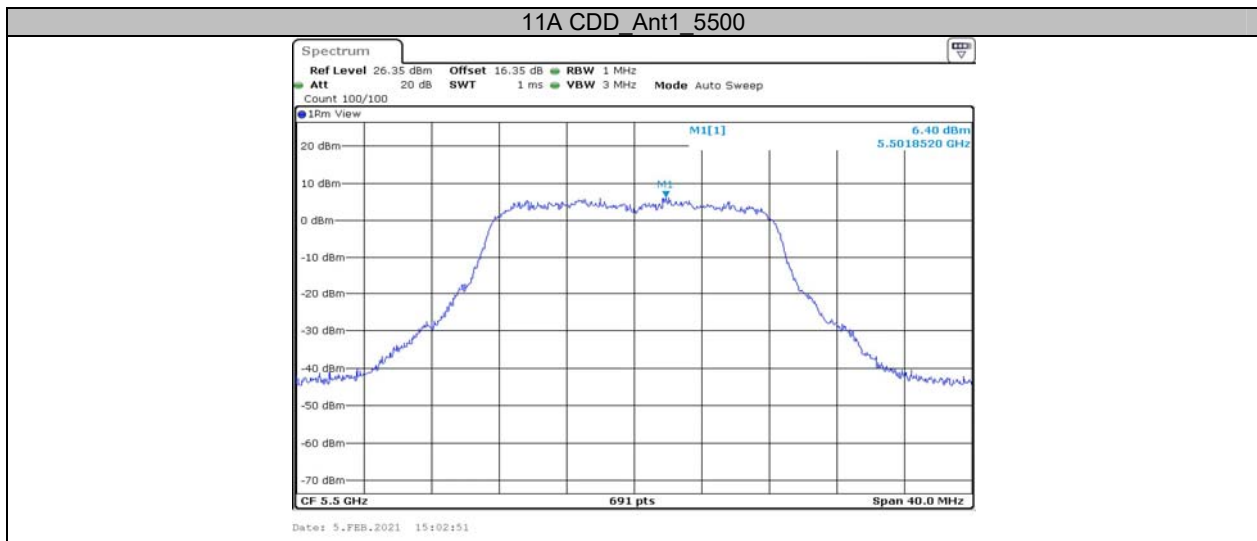
For the worst case, $N_{ss}=1$, so:

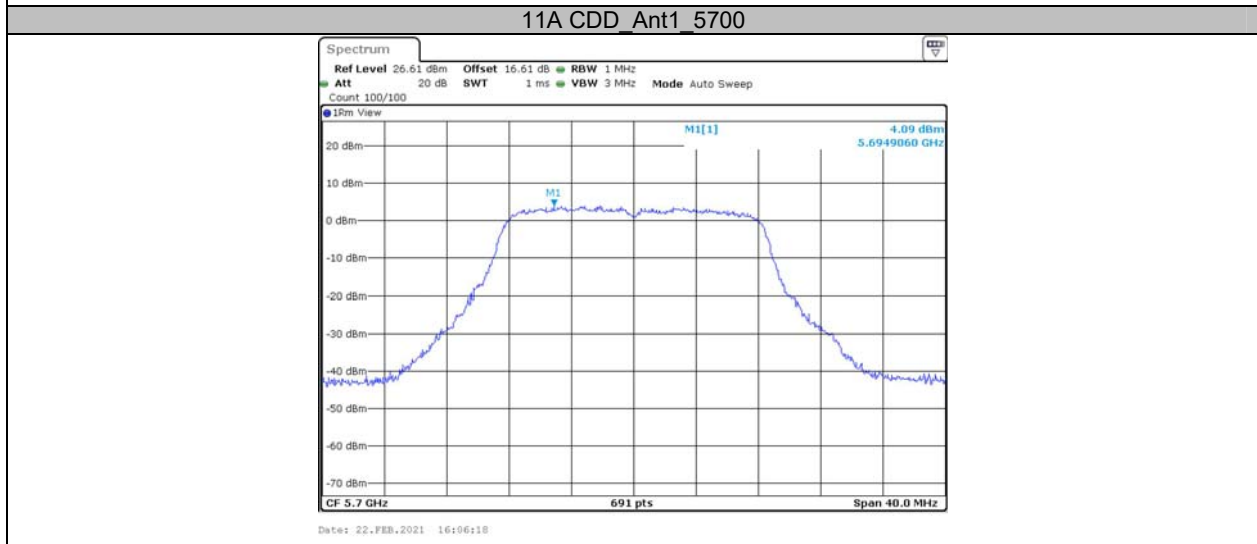
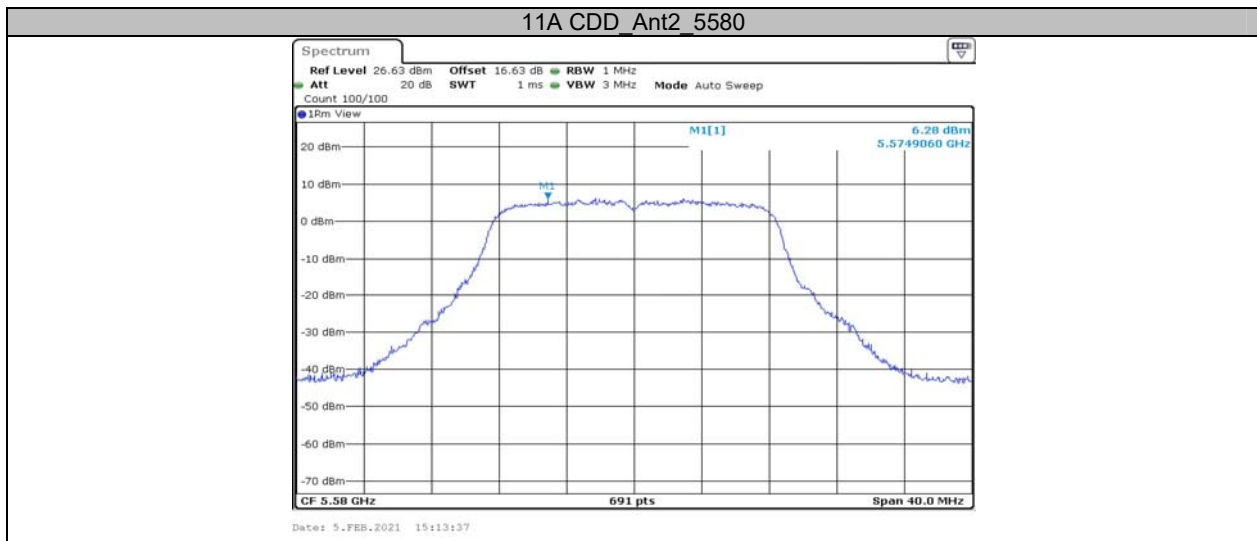
Directional gain = 4dBi + 10*log(2/1)dB = 7dBi > 6dBi, so the limit should reduce 1dB.

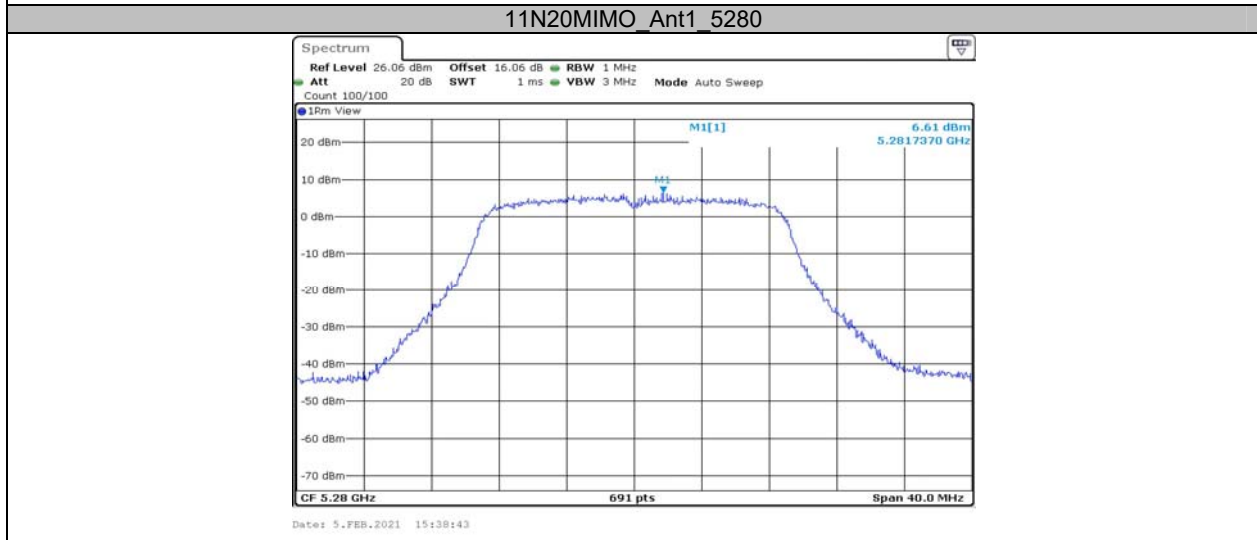
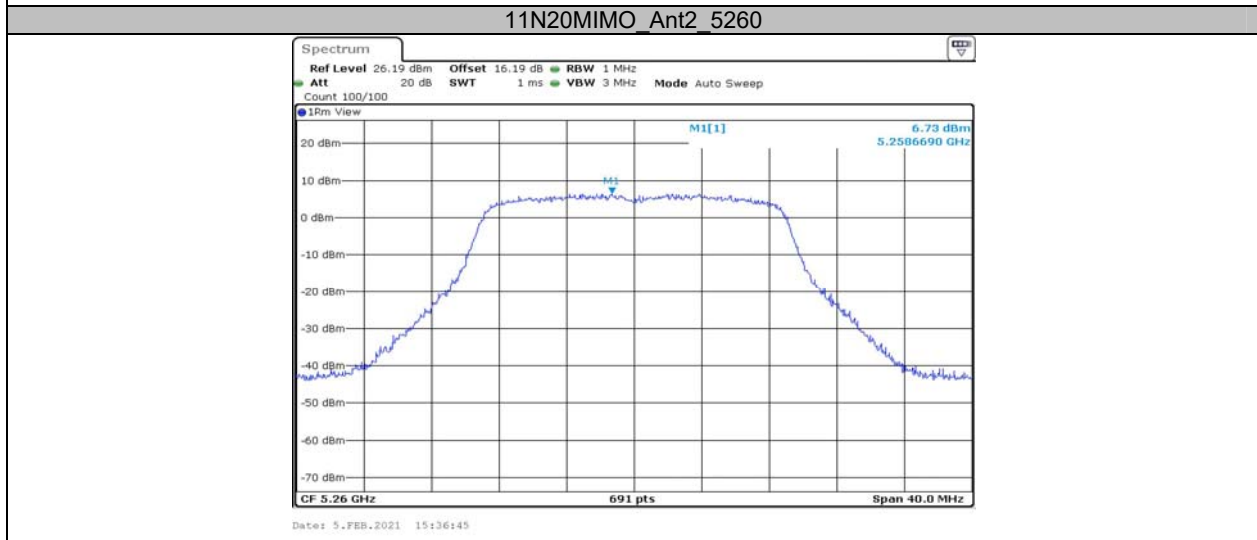
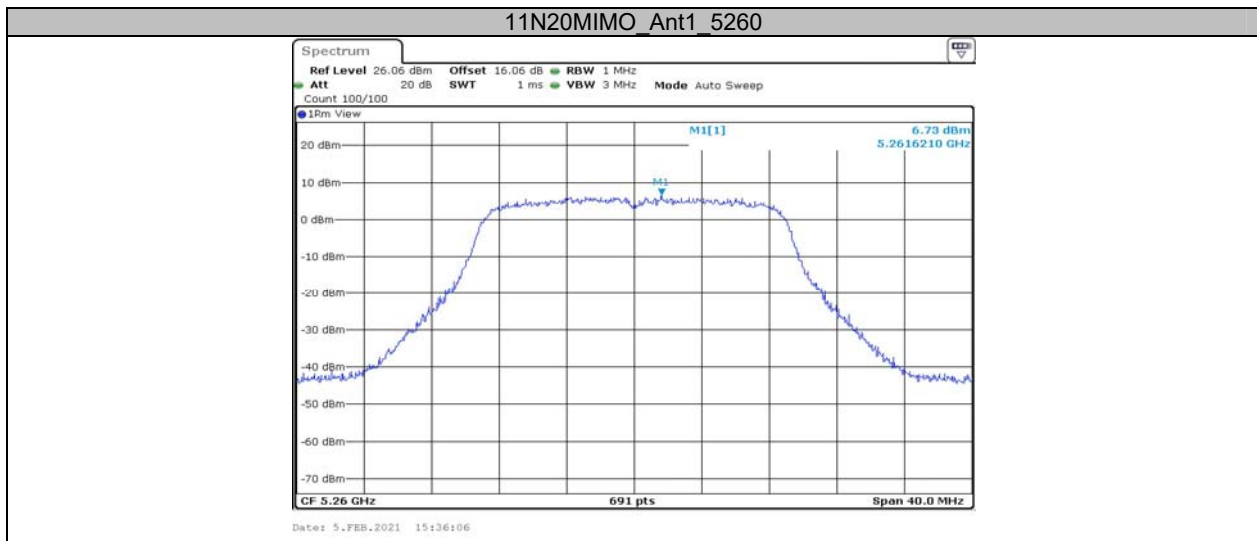
Test Graphs

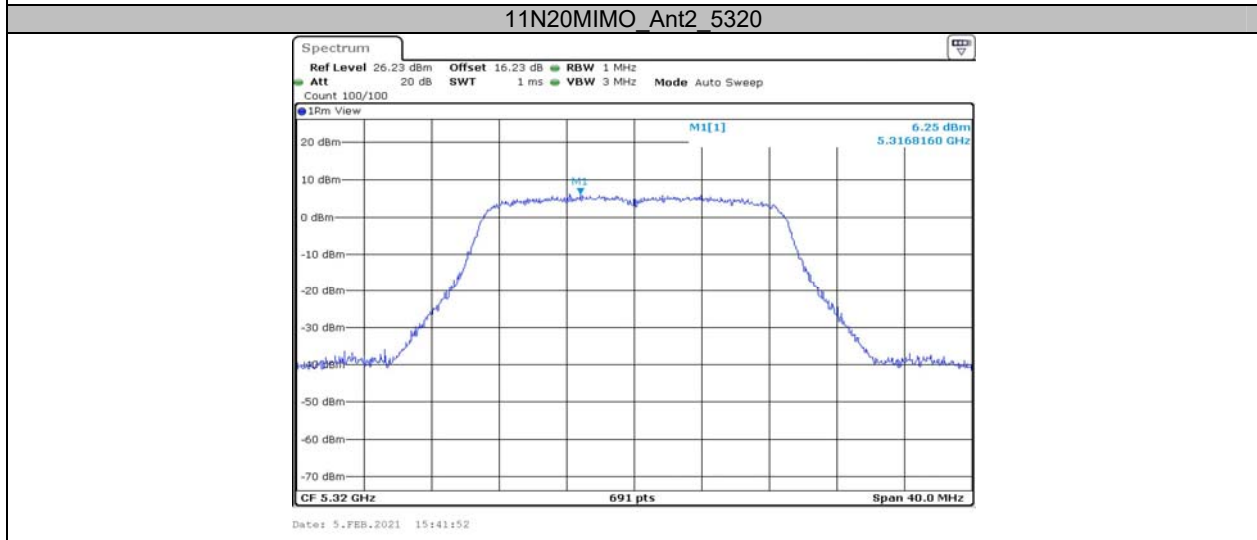
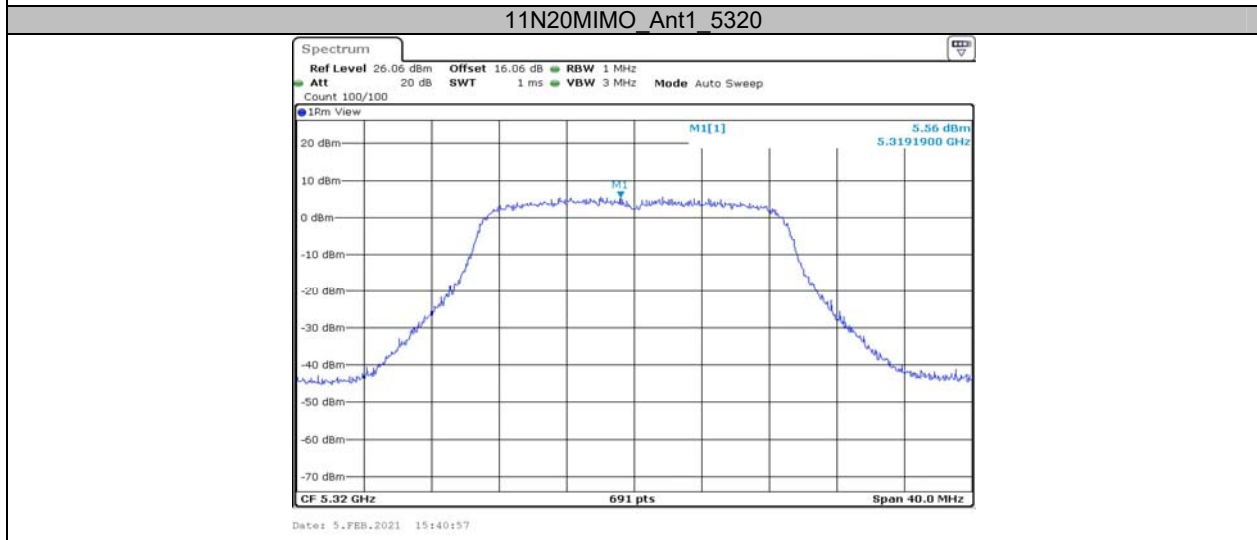
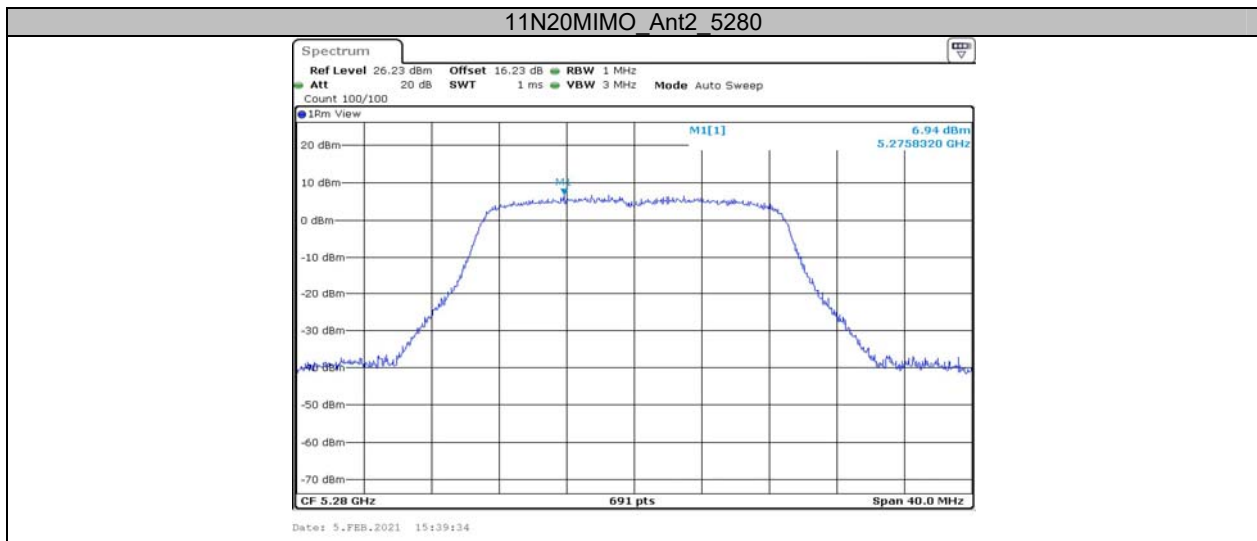


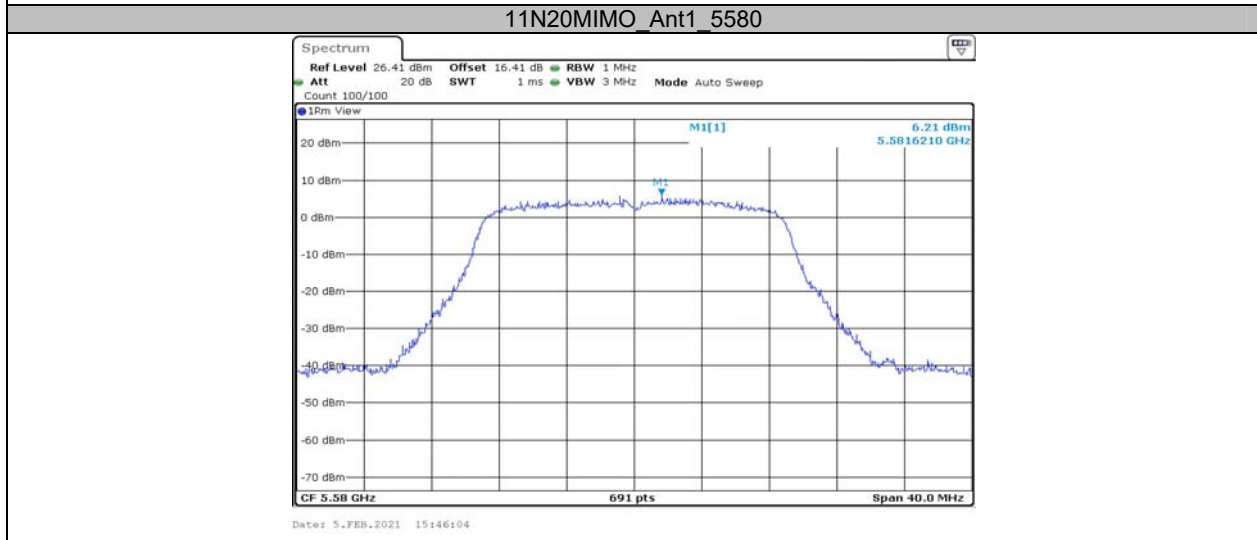
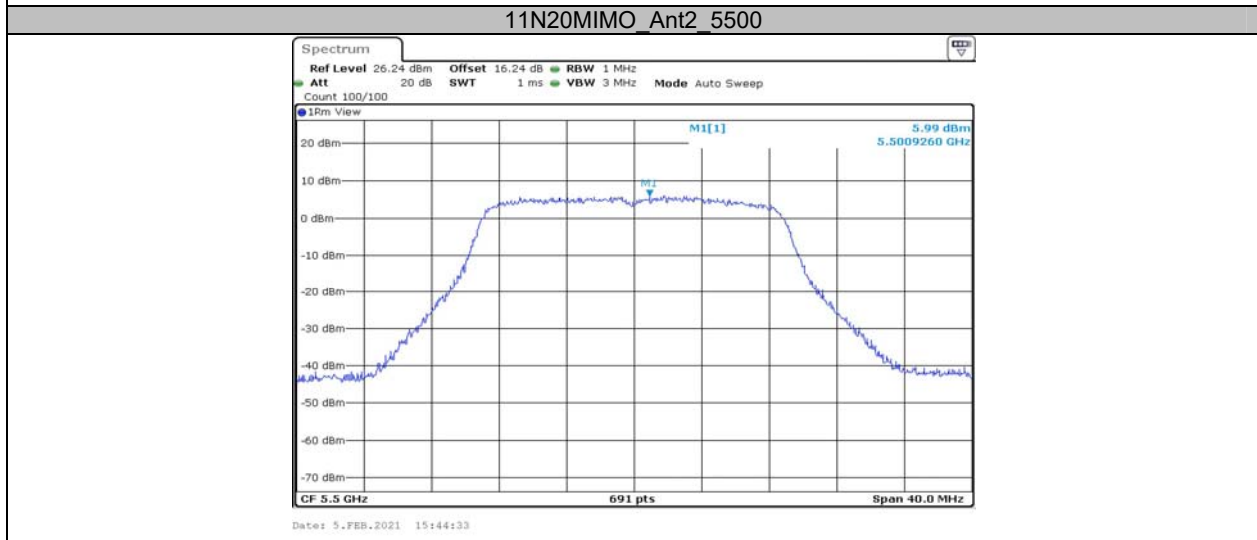
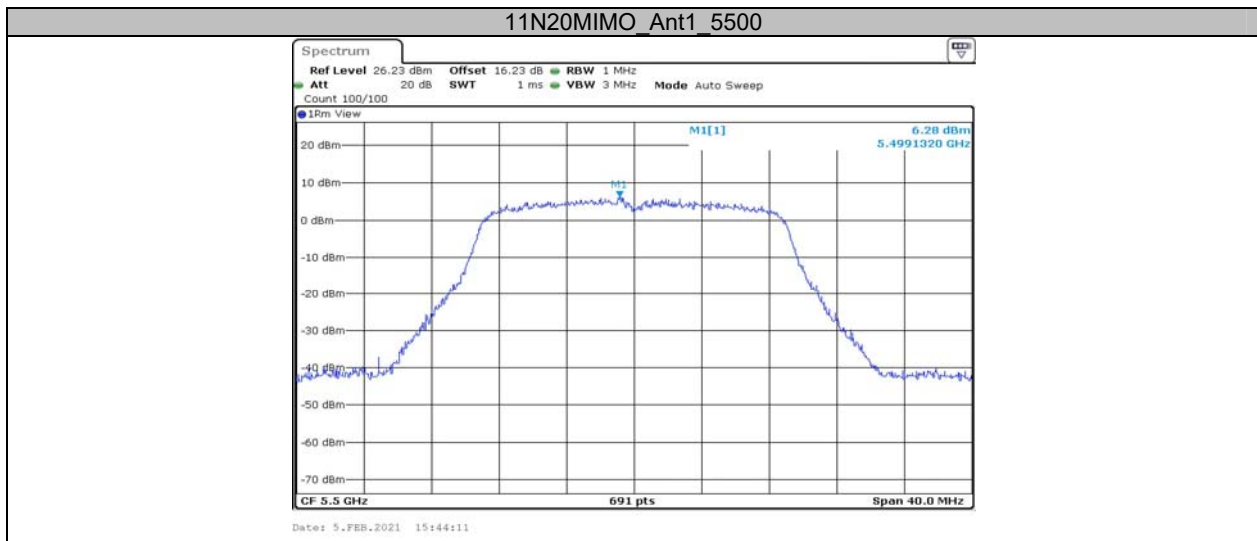


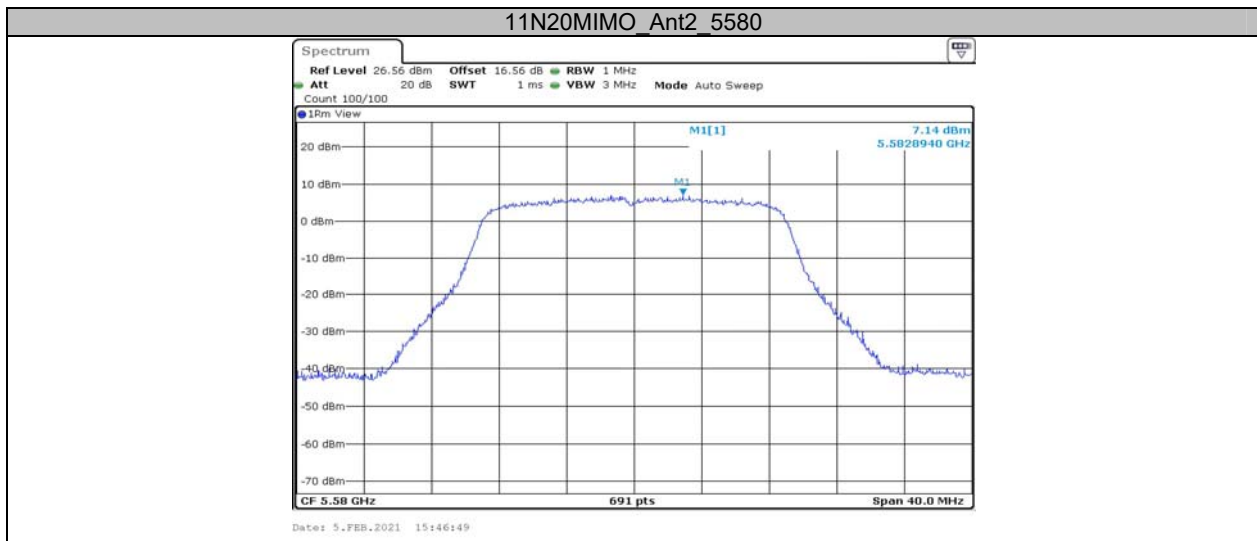


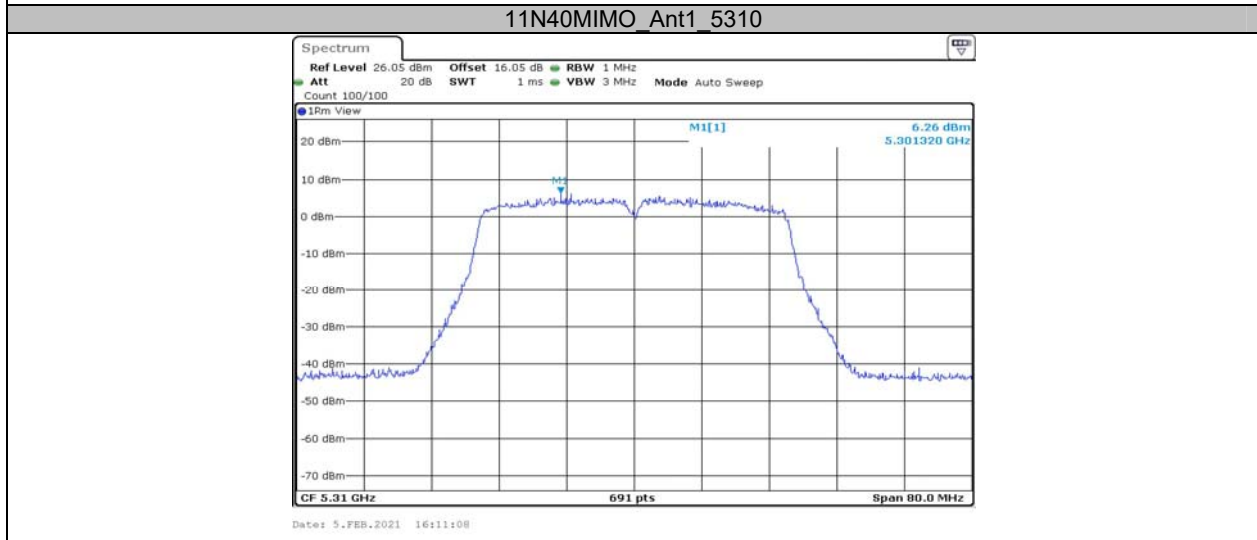
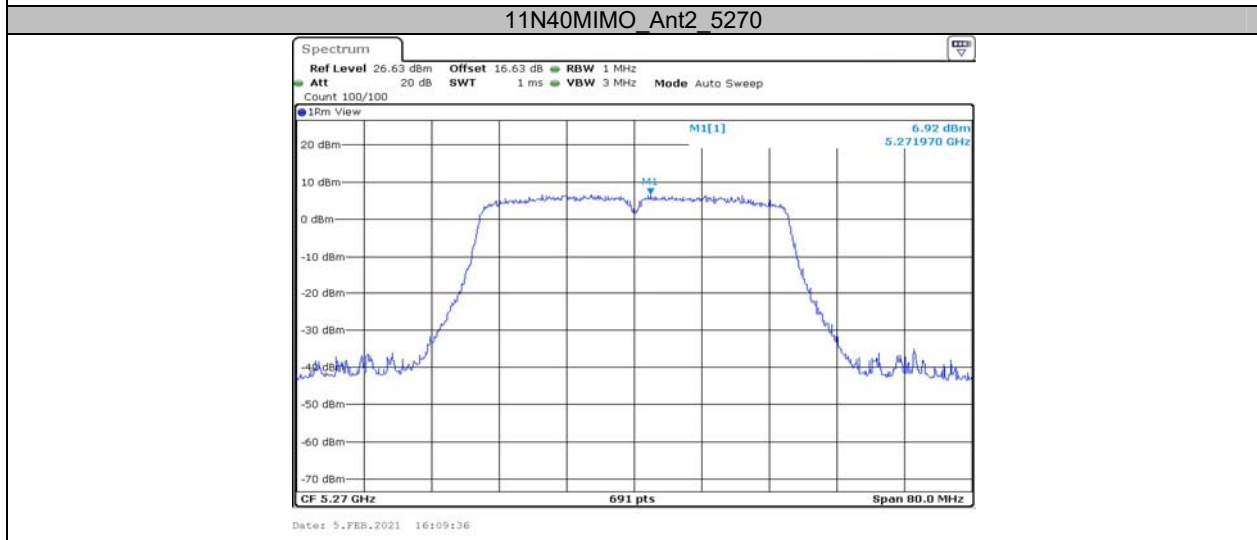
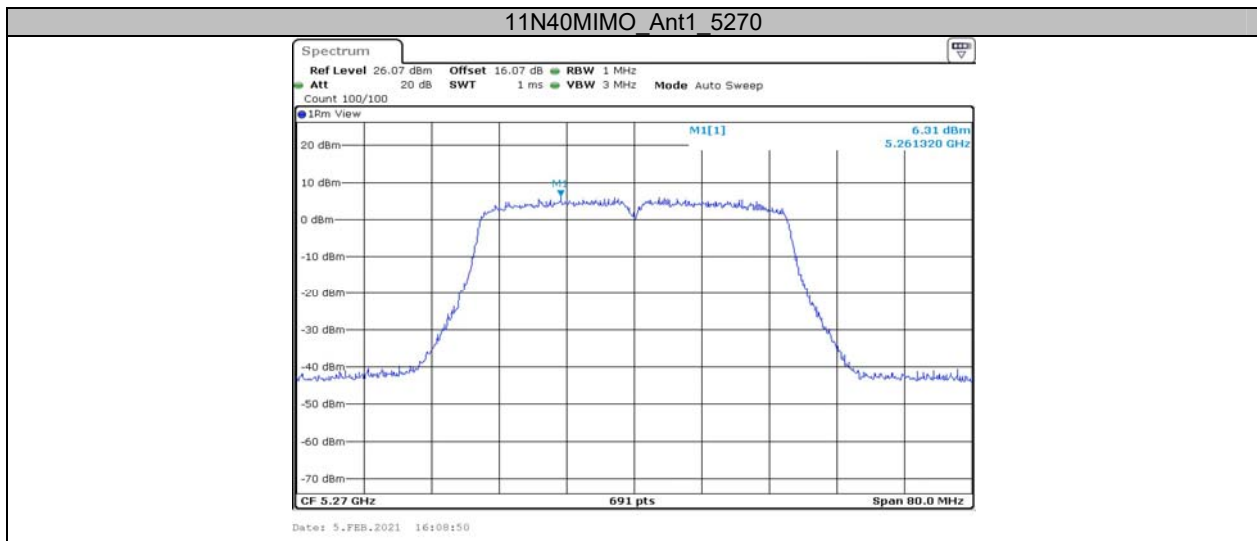








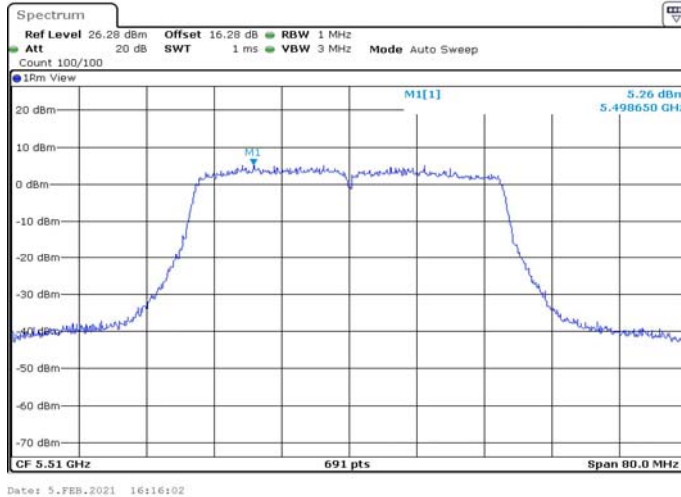




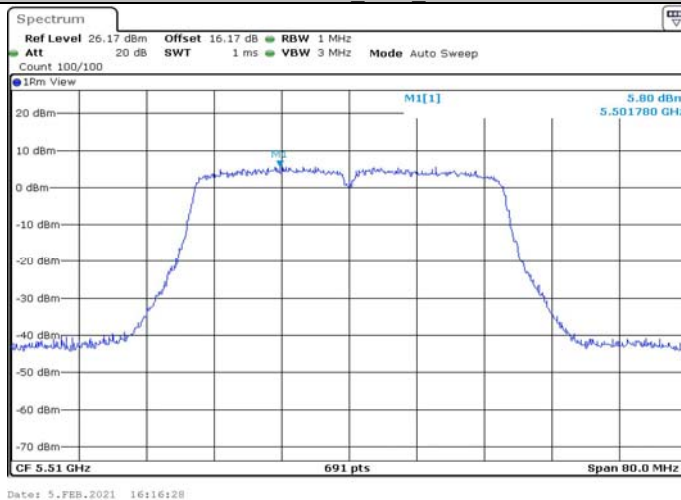
11N40MIMO Ant2 5310

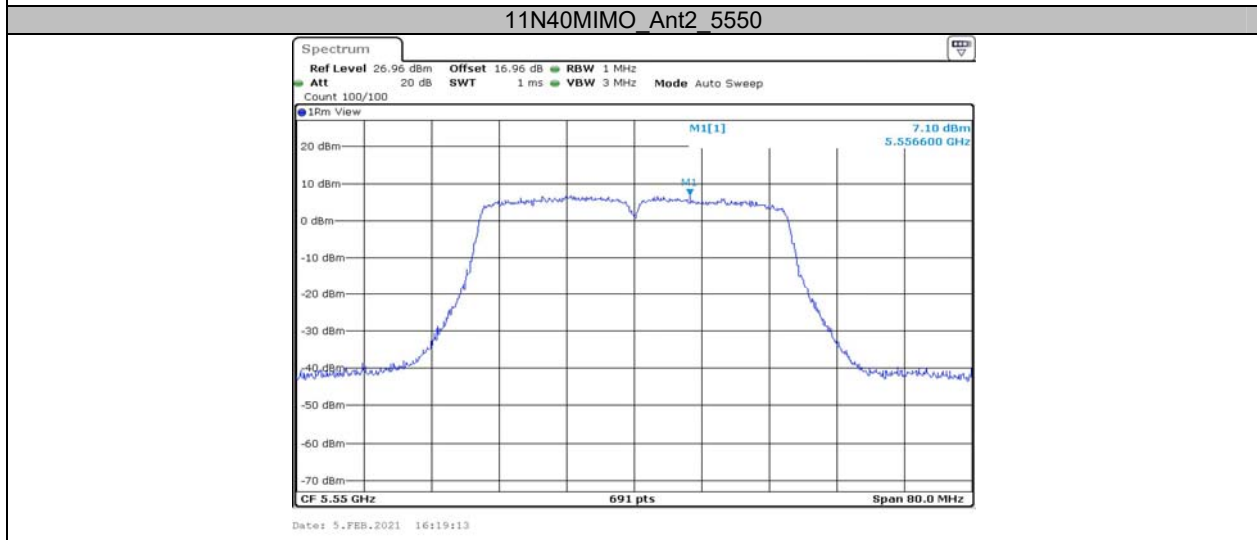
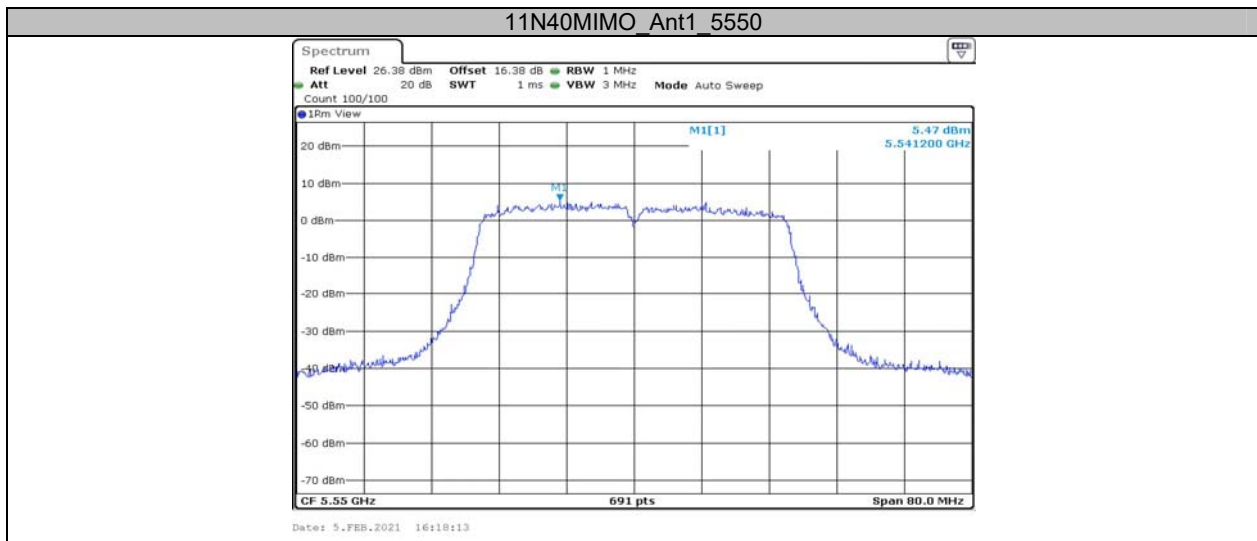


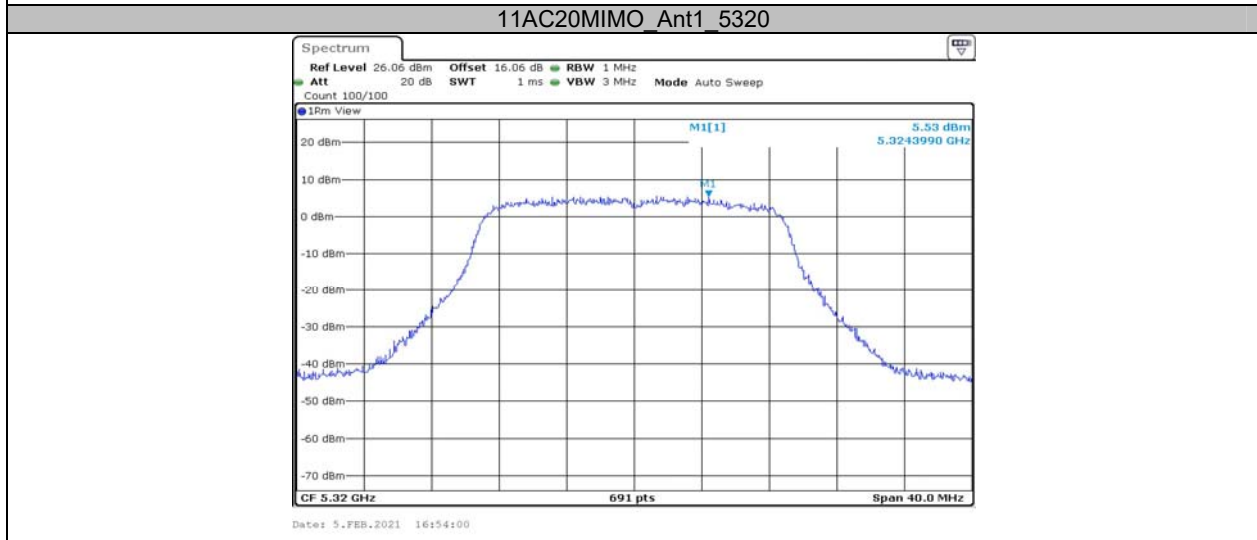
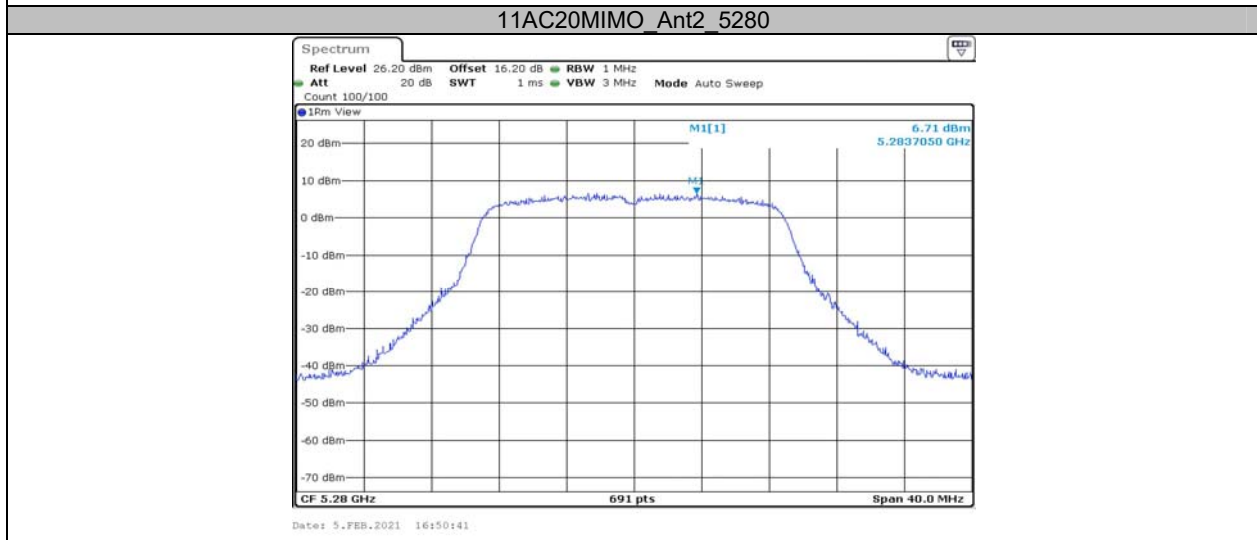
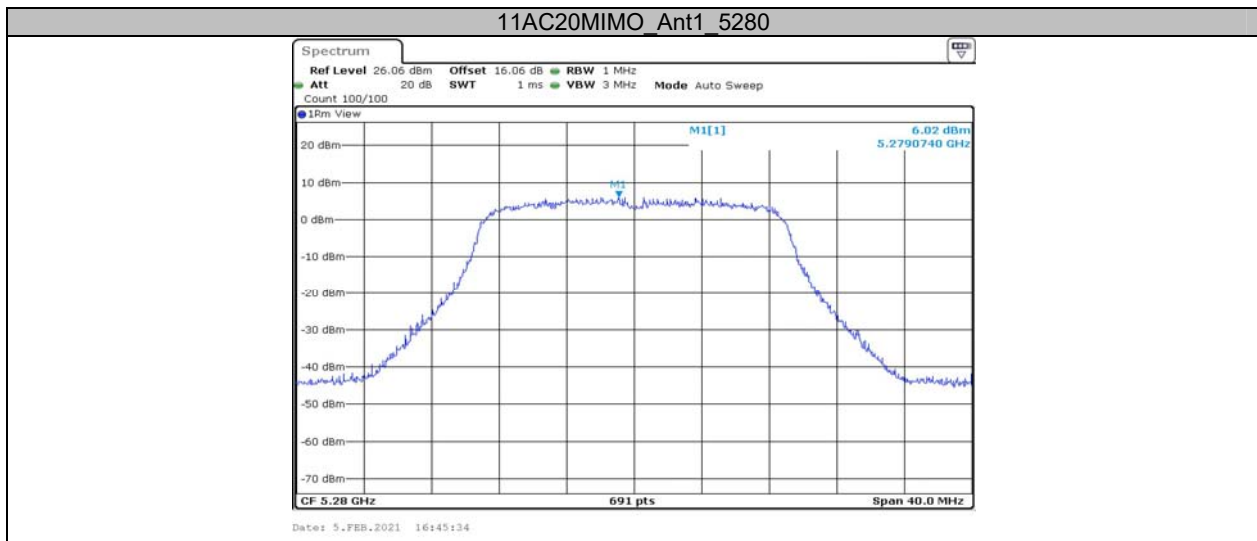
11N40MIMO Ant1 5510

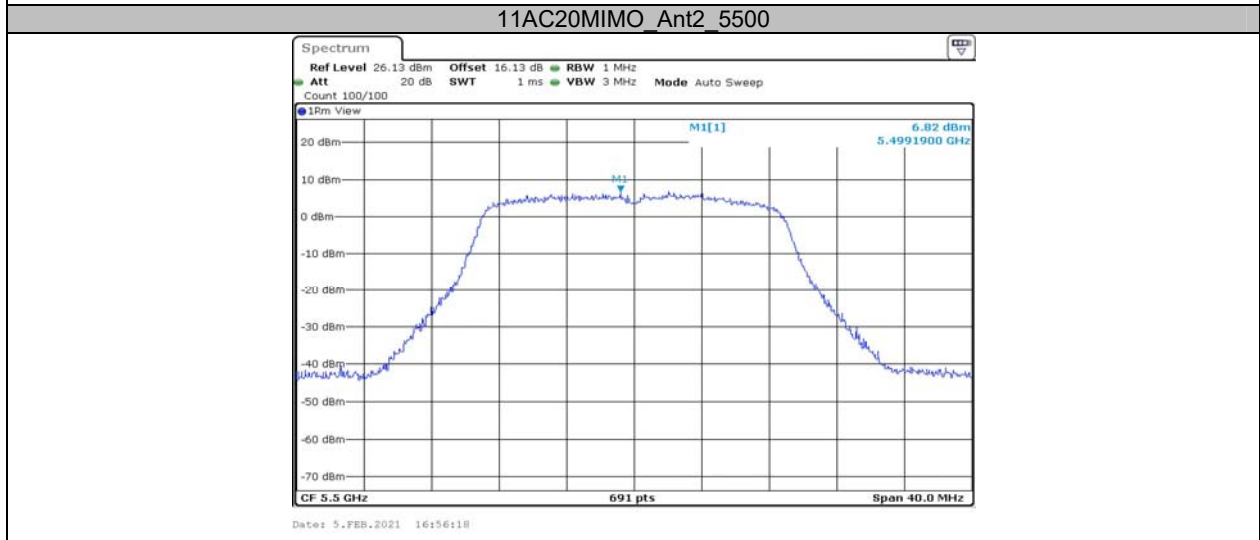
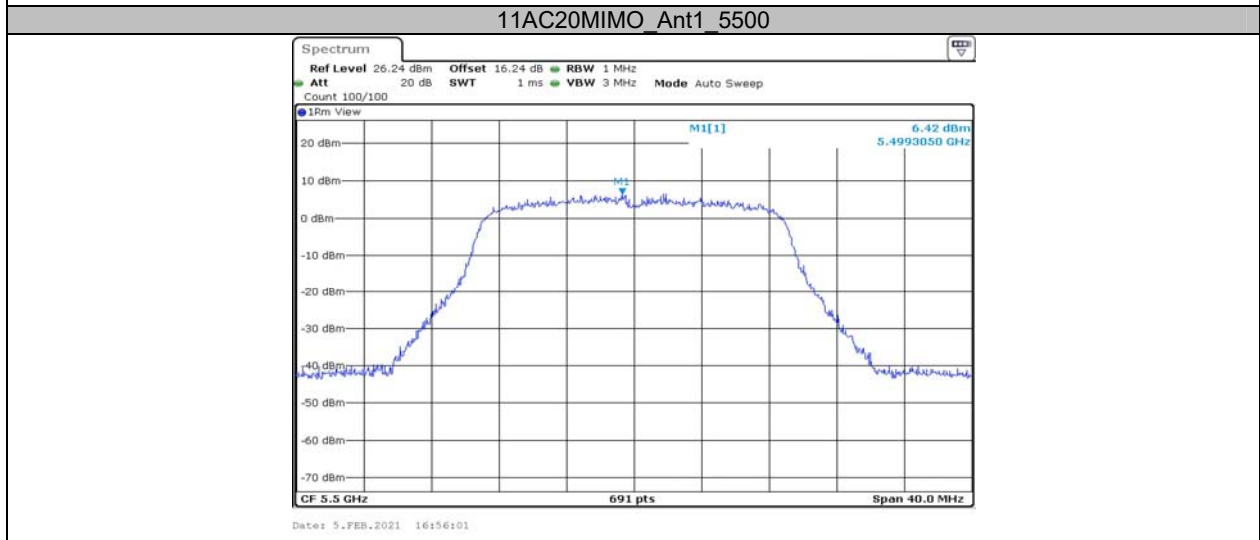
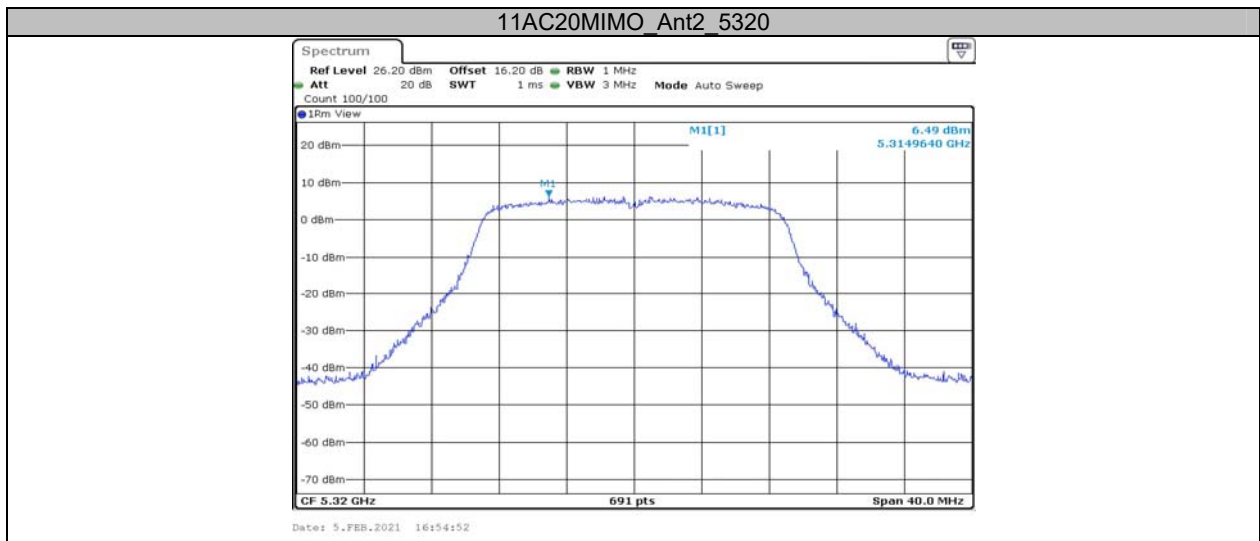


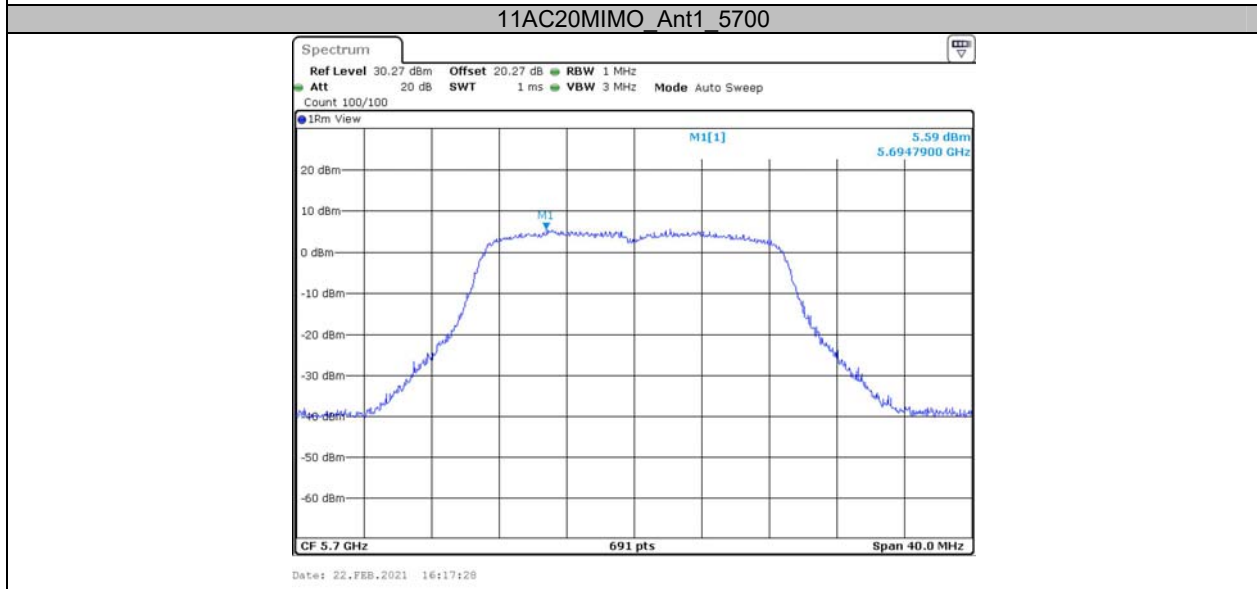
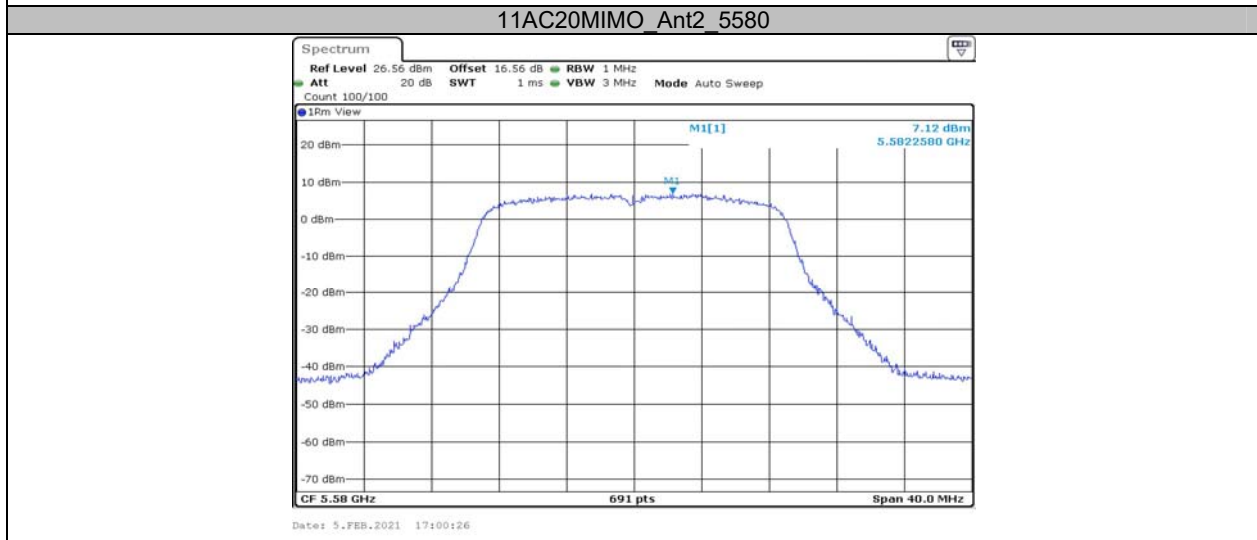
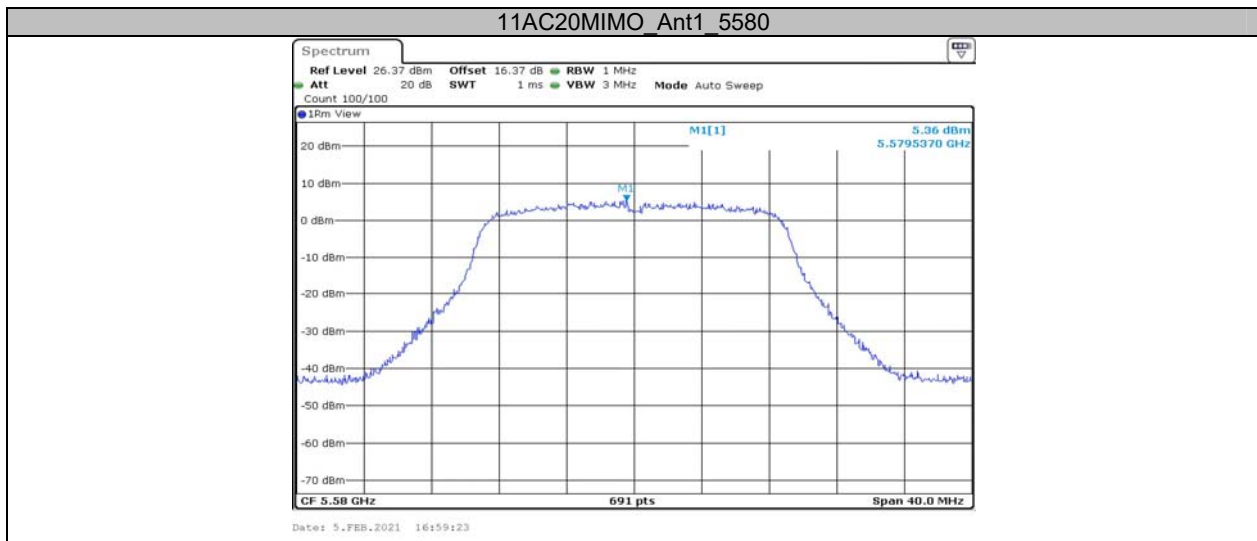
11N40MIMO Ant2 5510

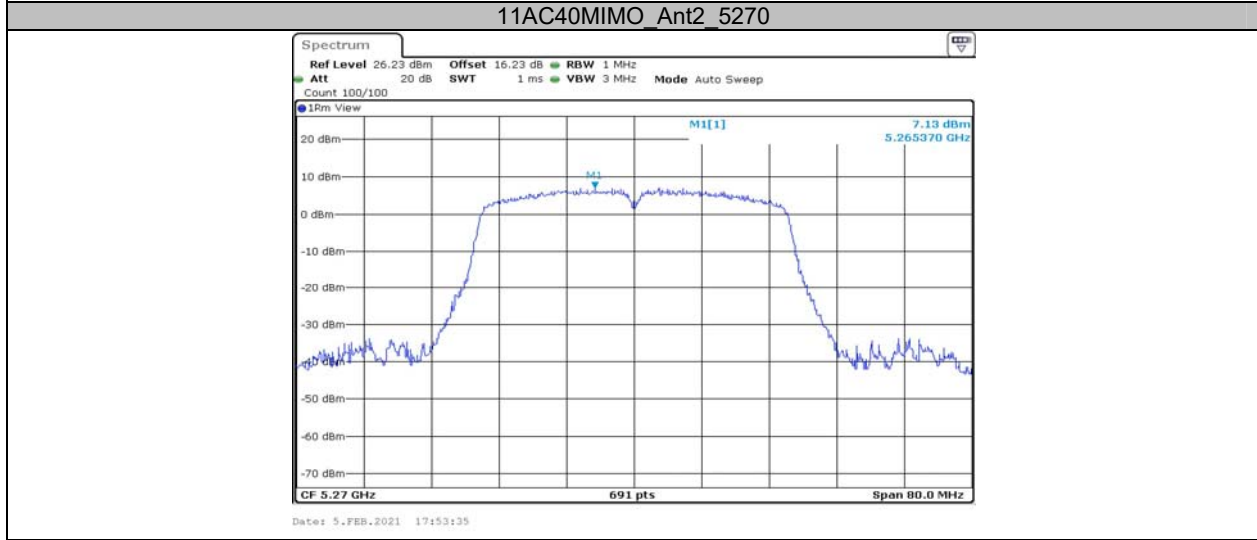
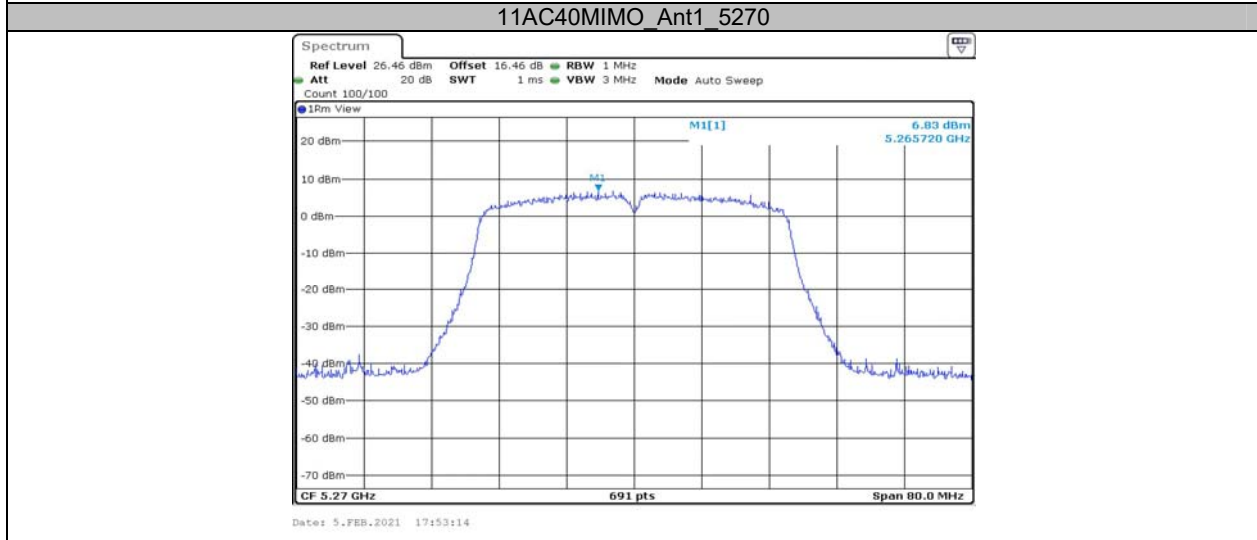
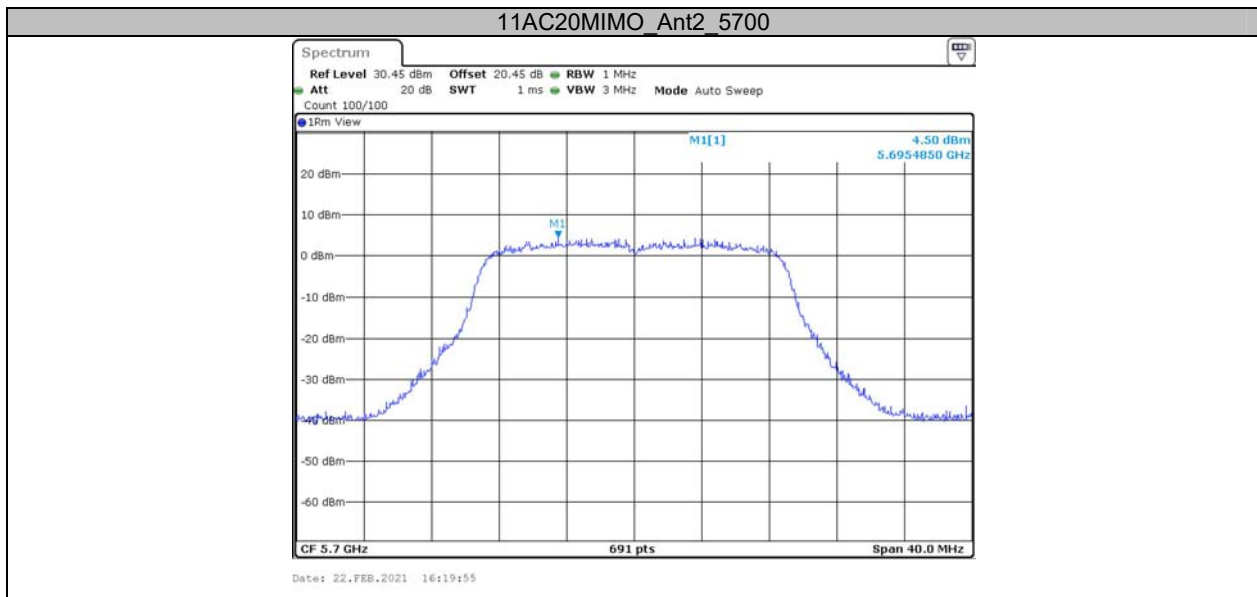


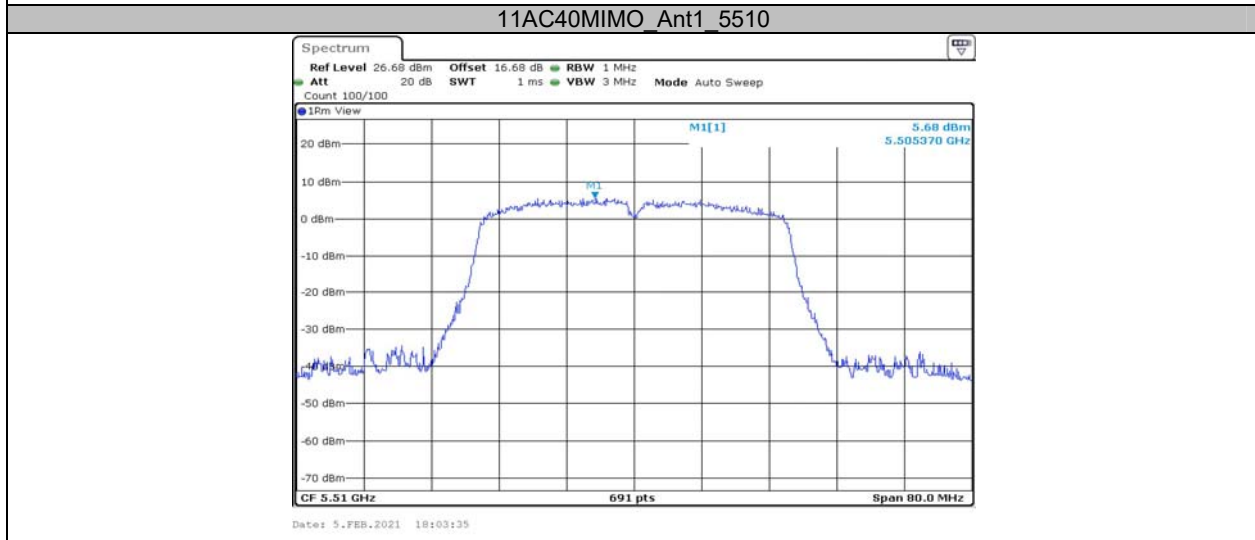
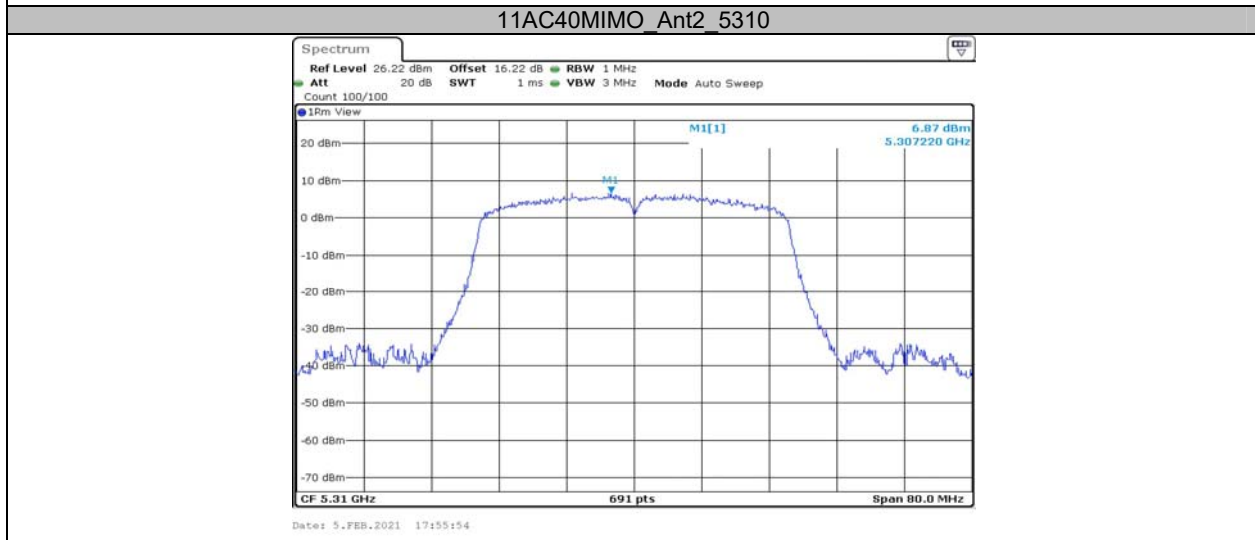
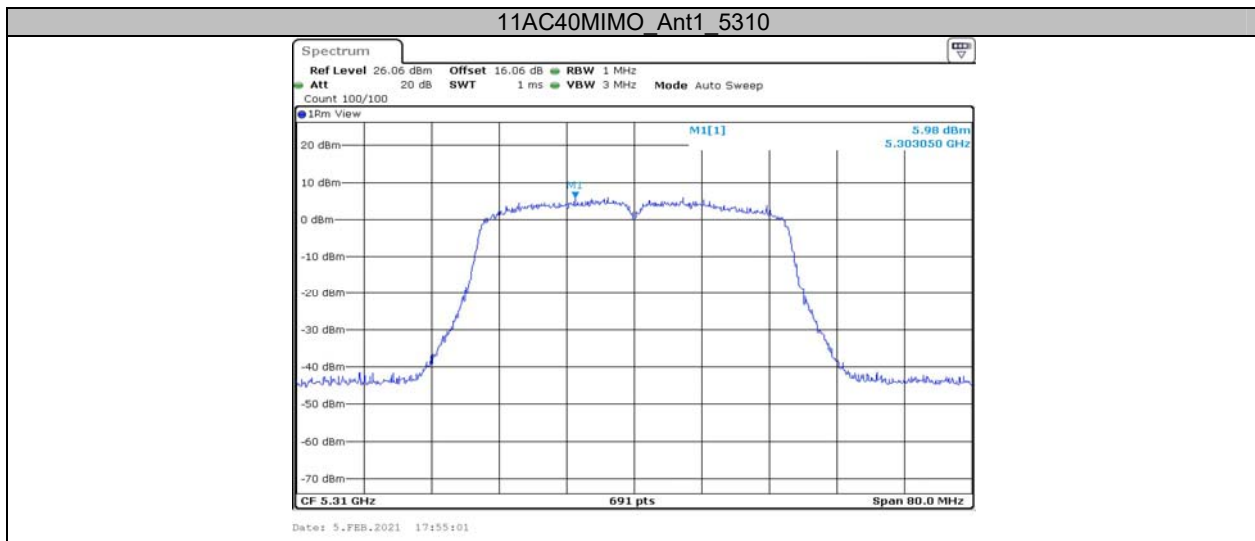


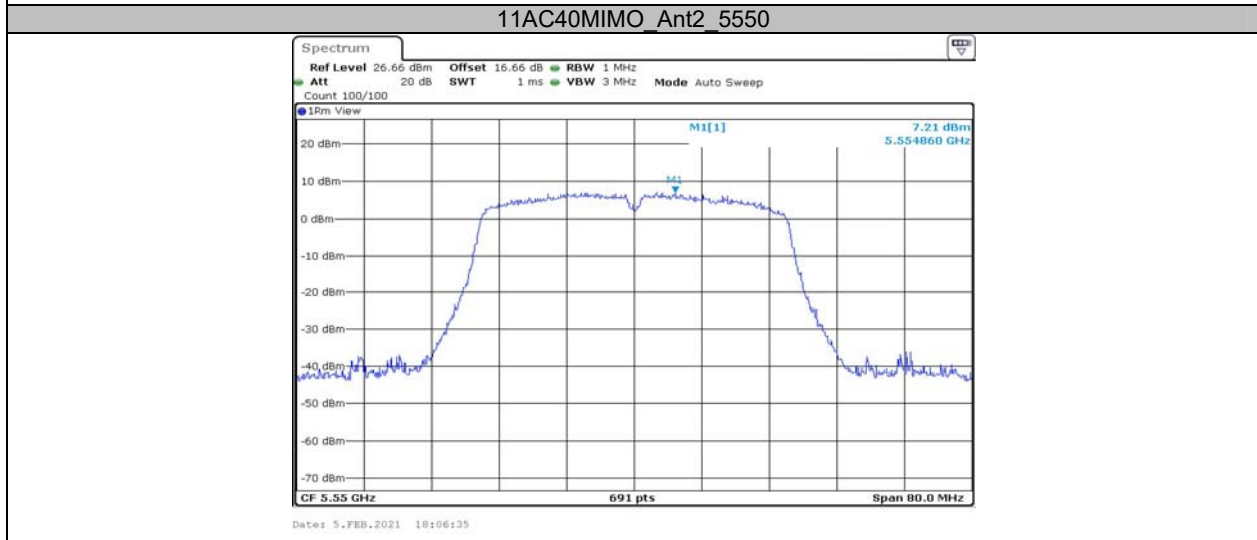
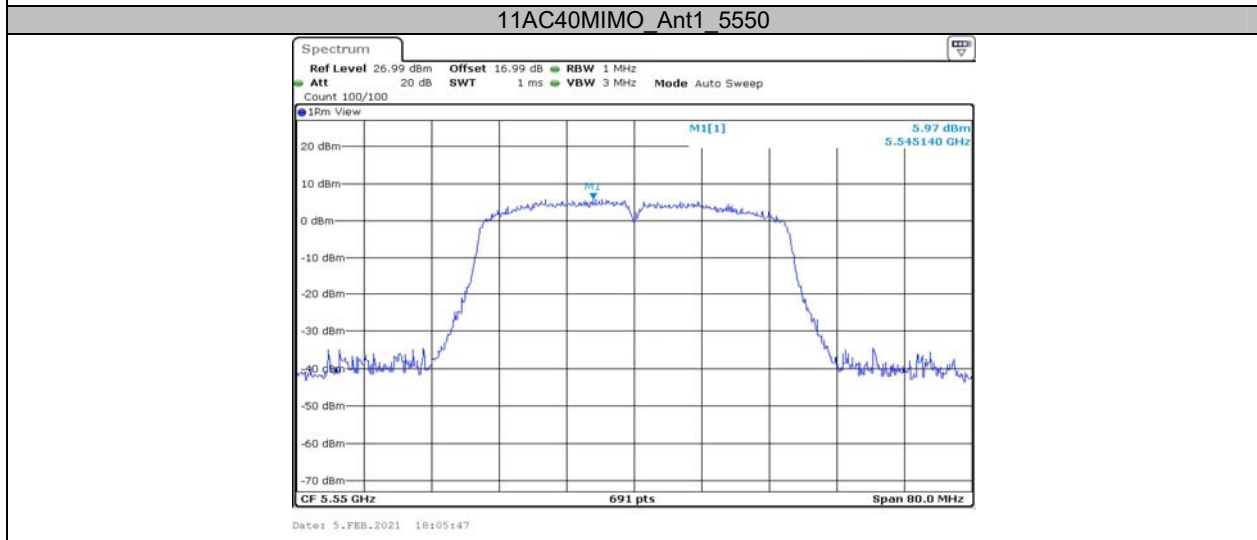
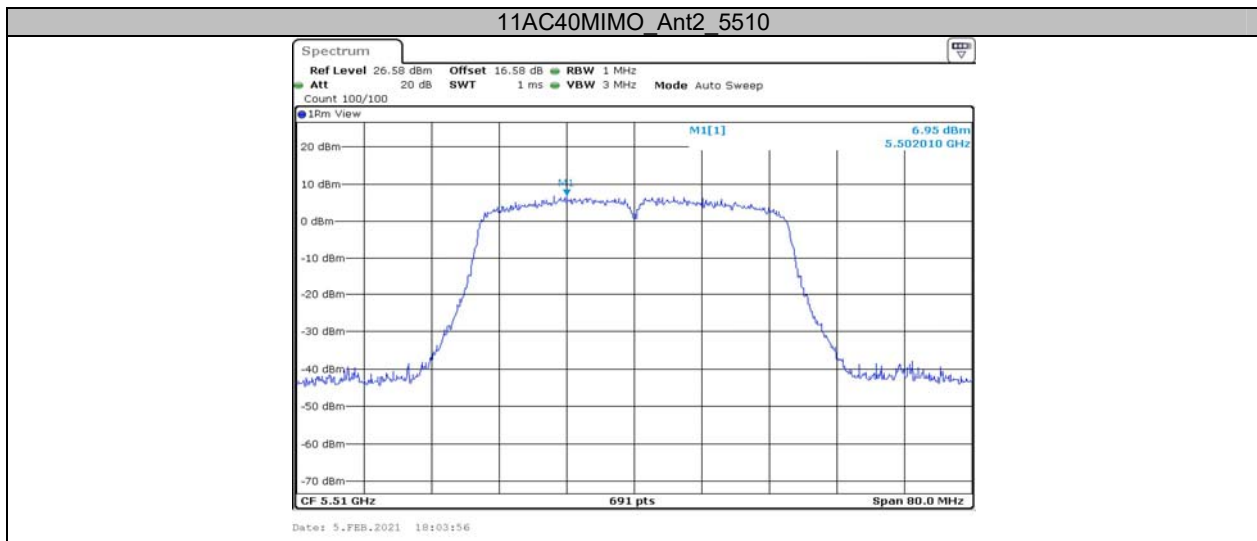


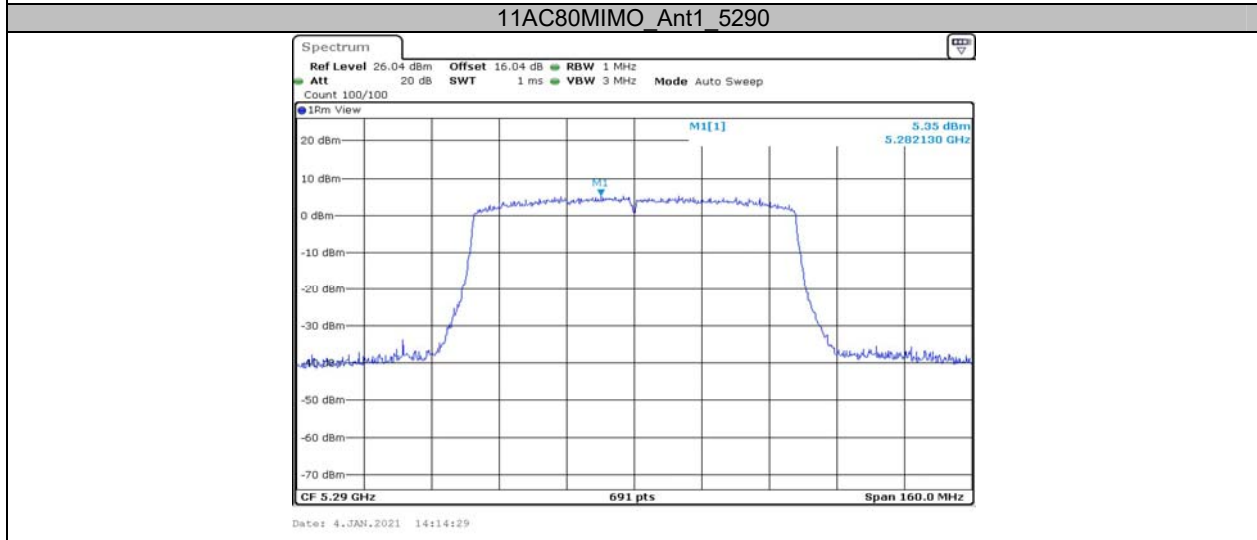
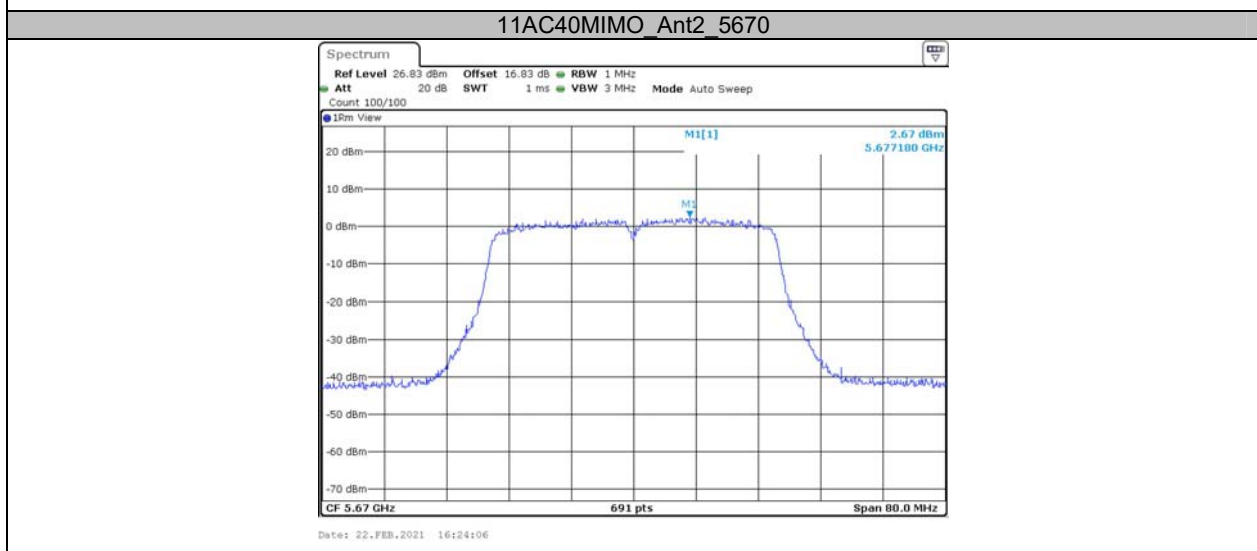
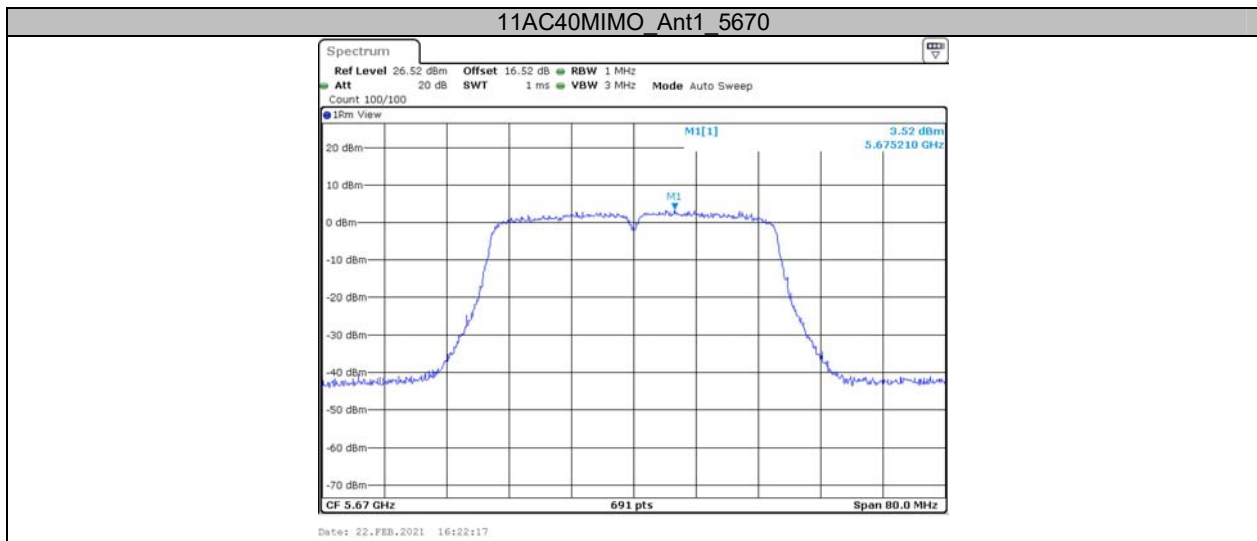


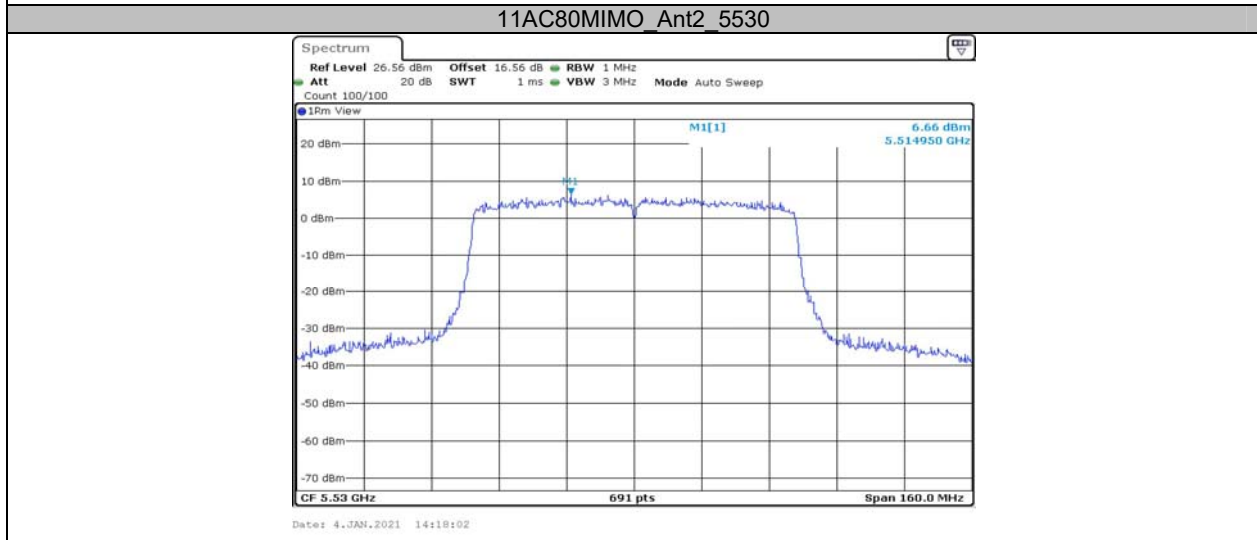
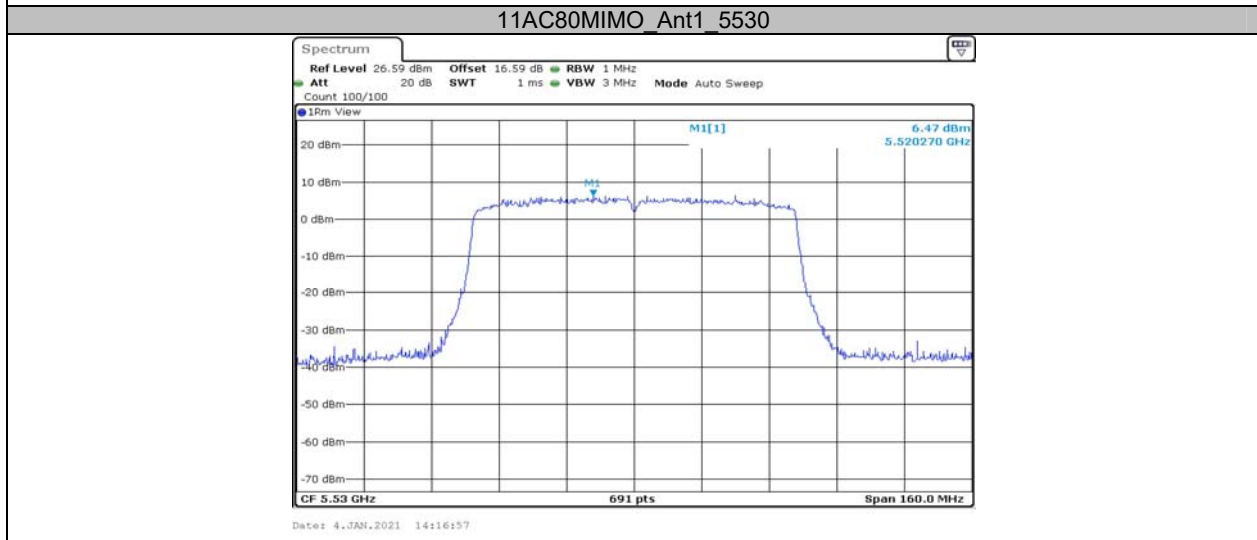
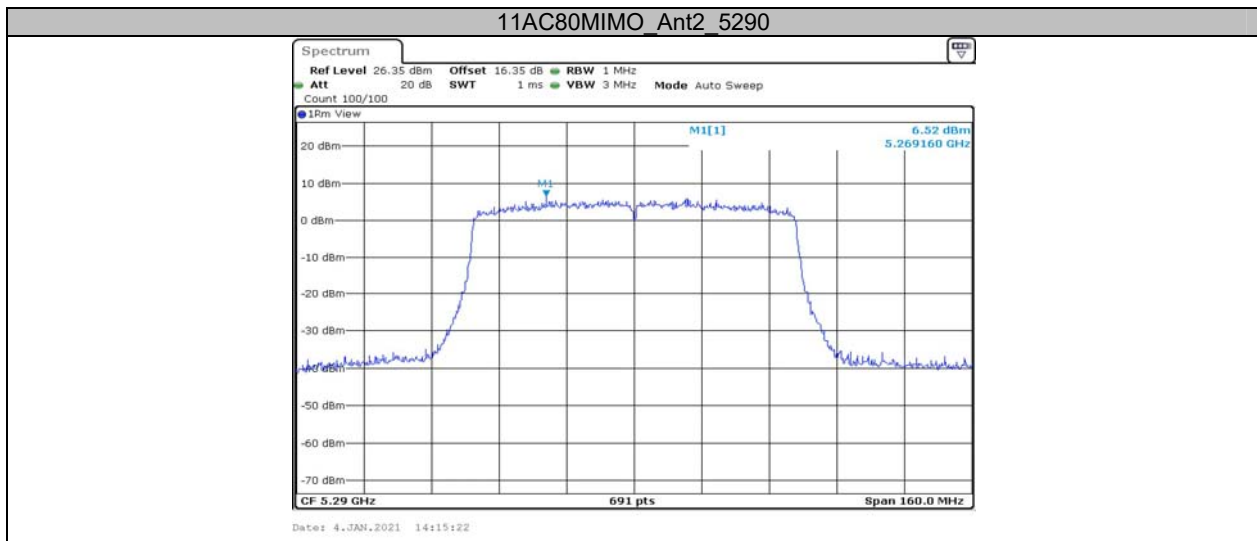


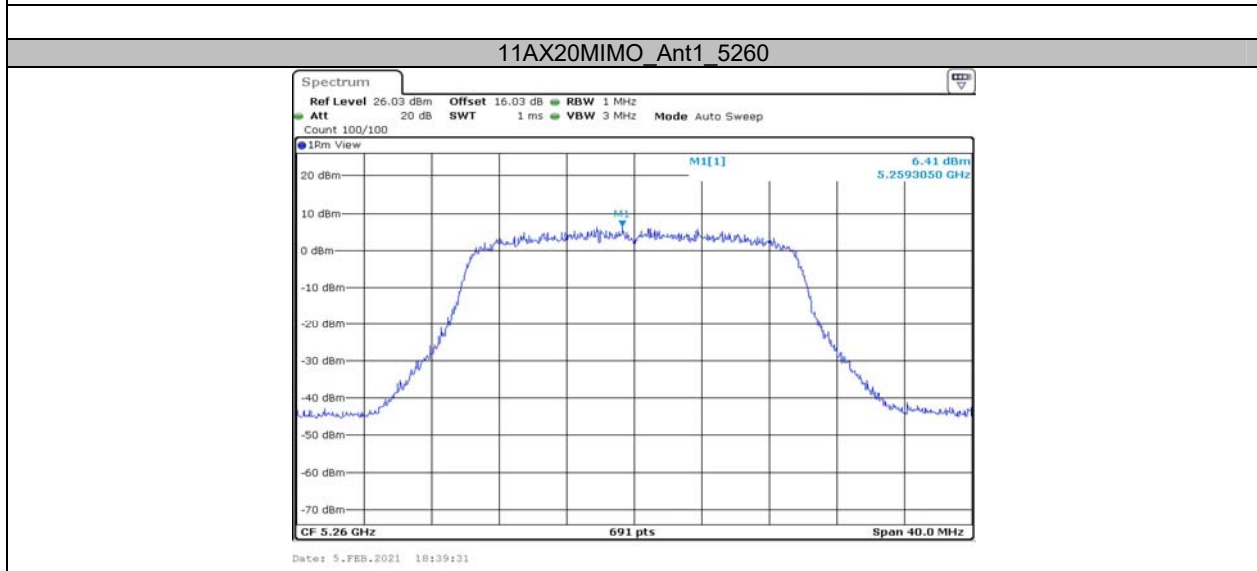
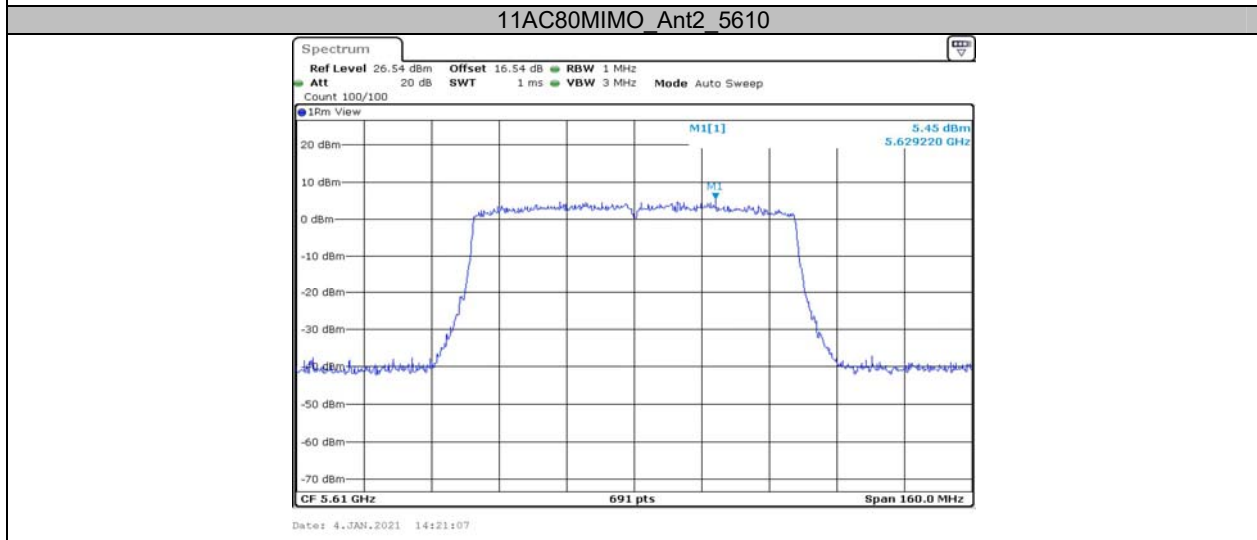
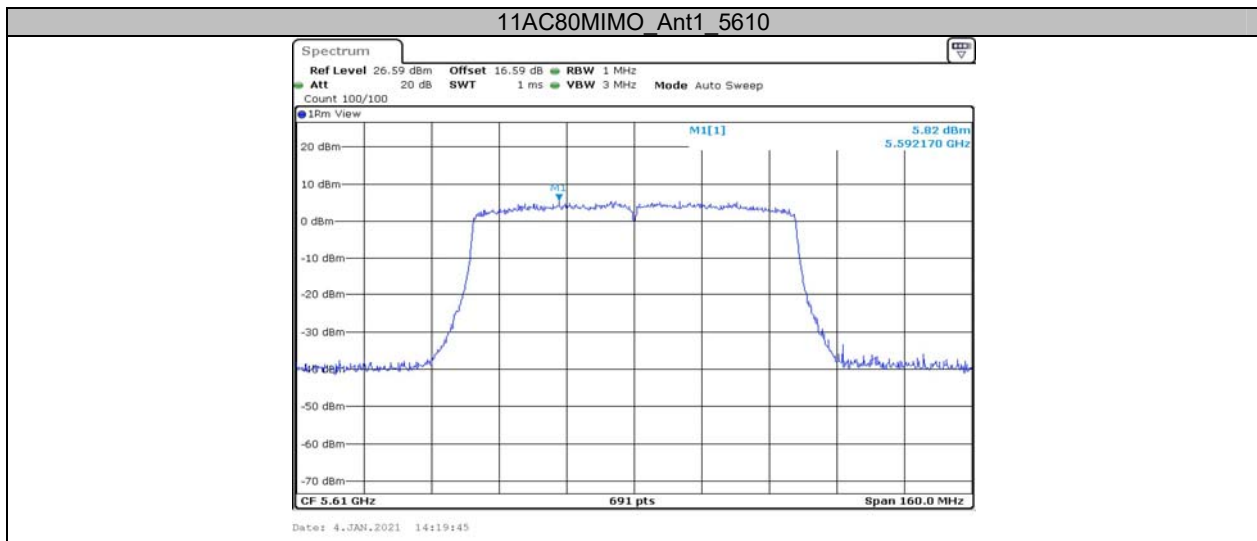




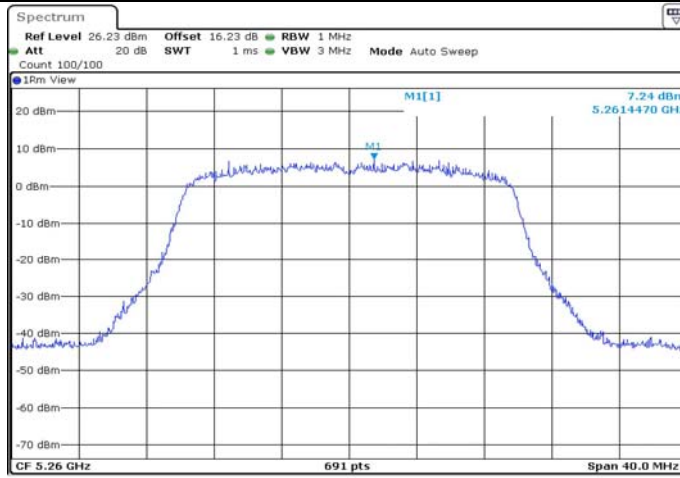






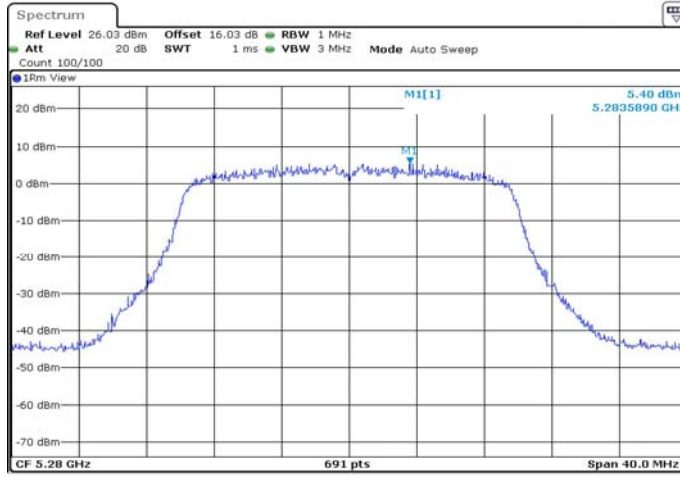


11AX20MIMO Ant2 5260



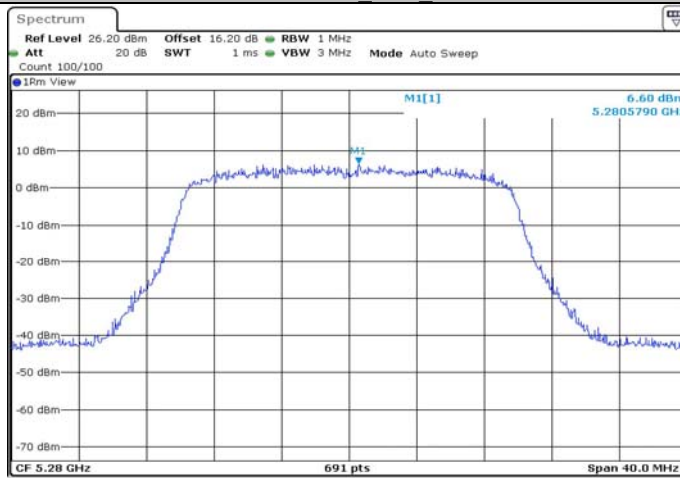
Date: 5.FEB.2021 18:39:37

11AX20MIMO Ant1 5280

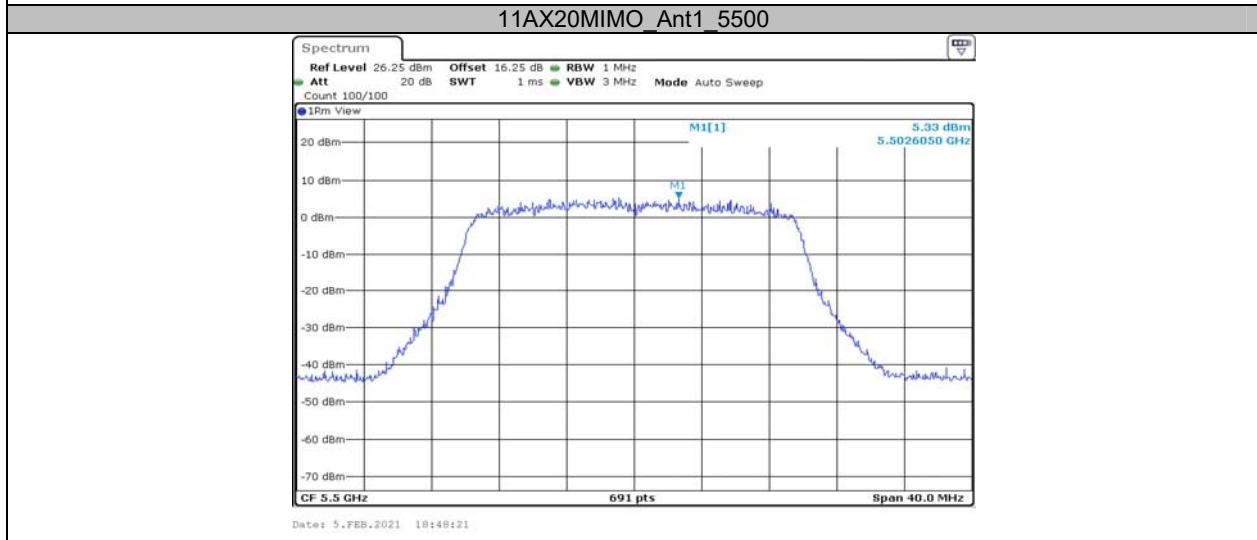
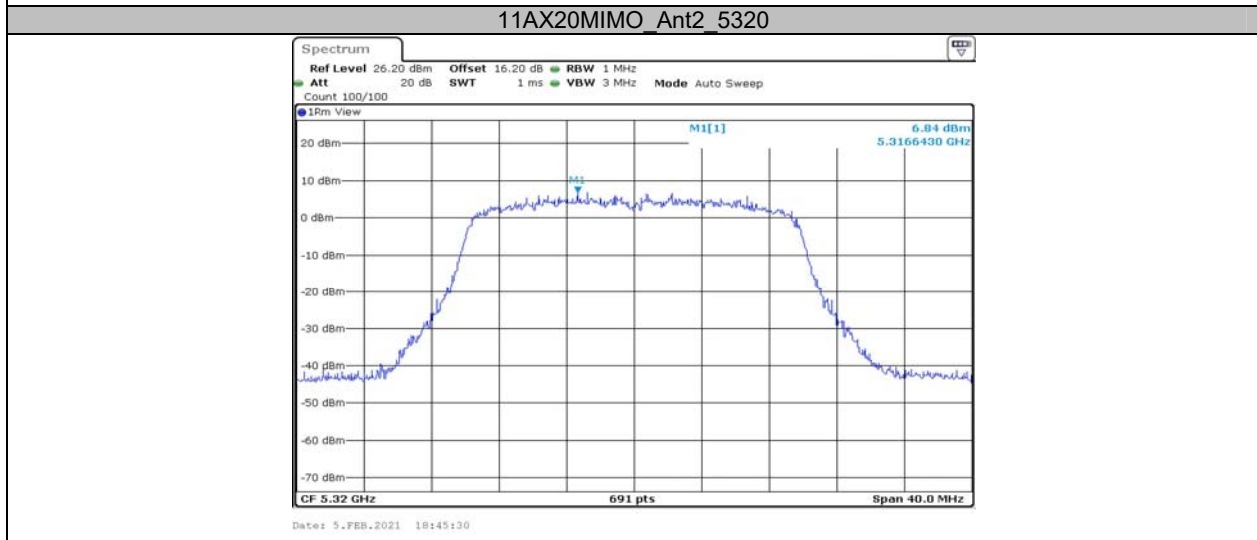
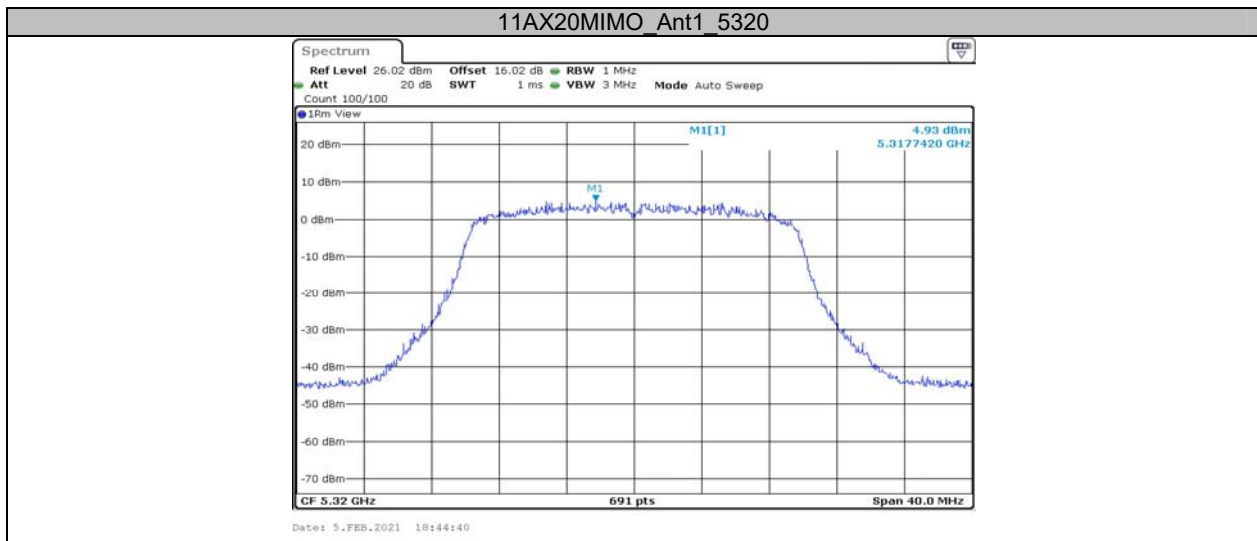


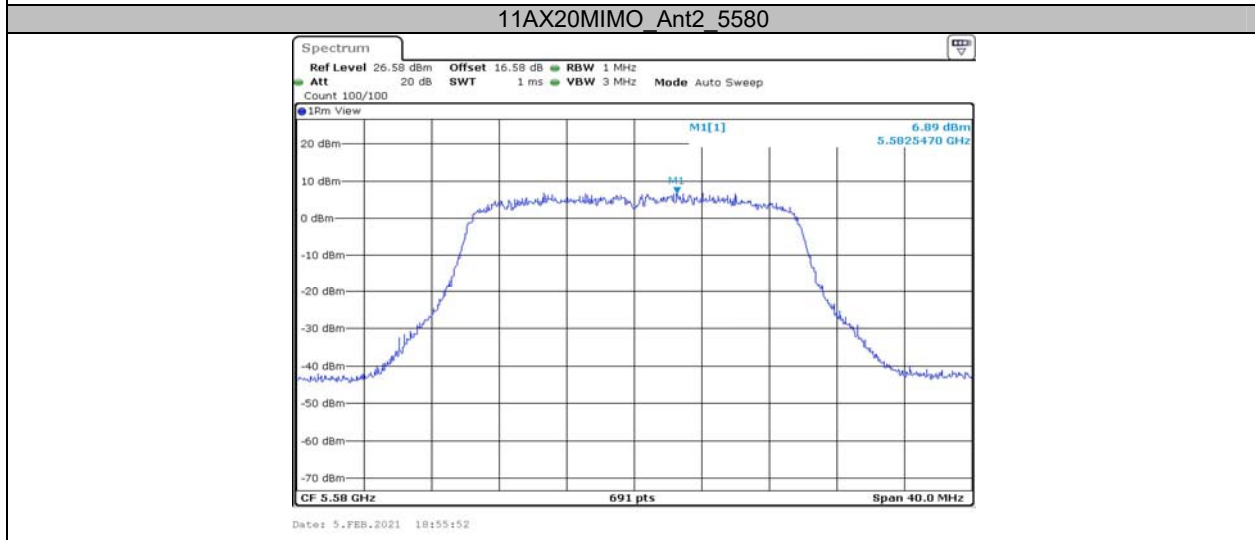
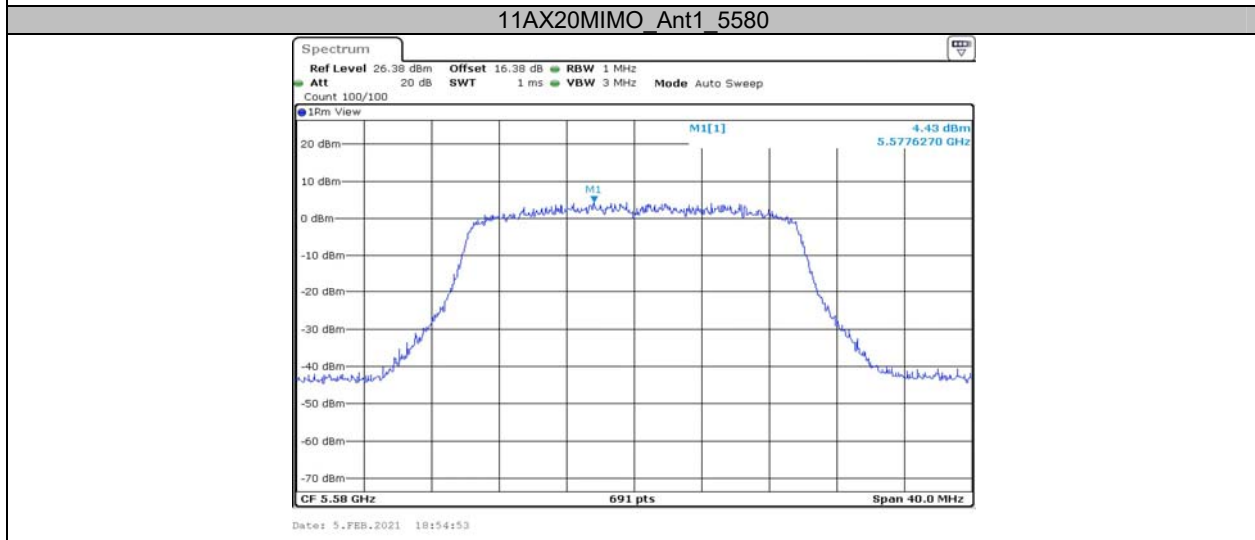
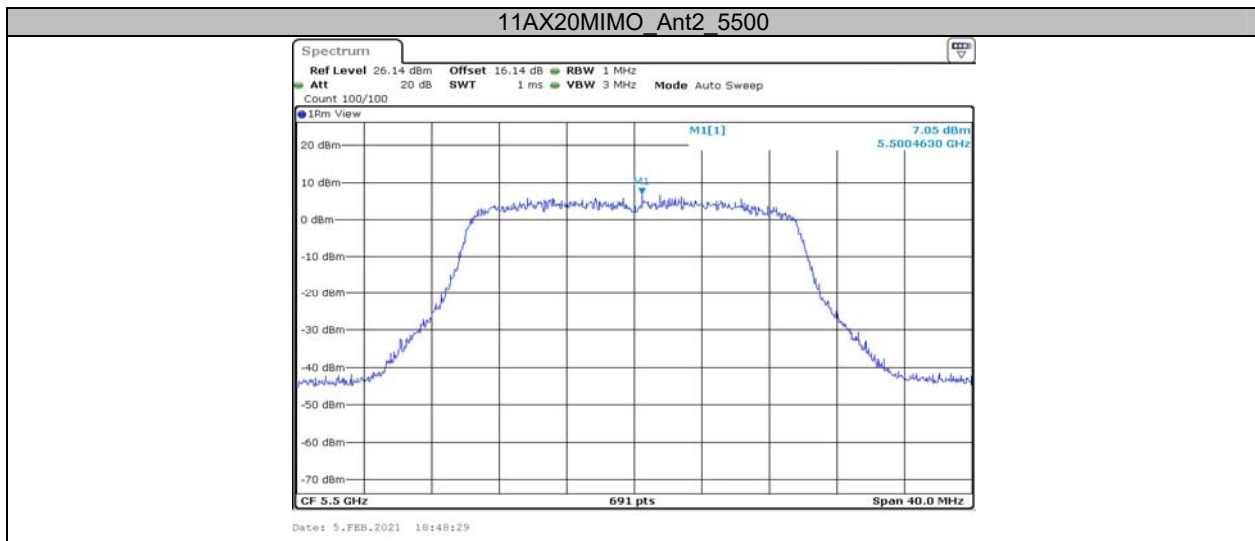
Date: 5.FEB.2021 18:42:12

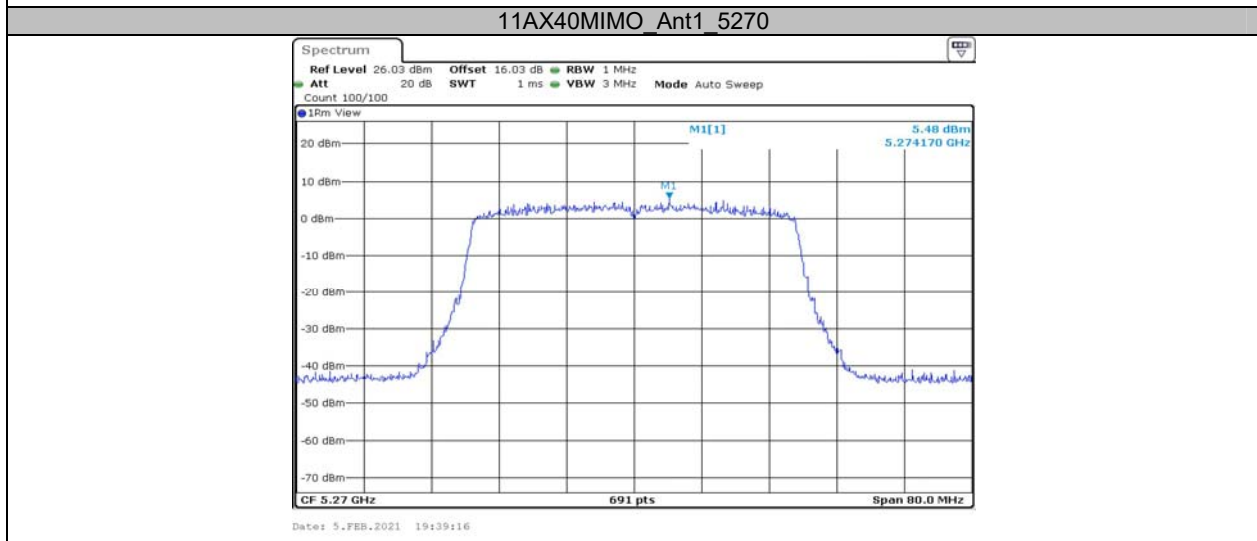
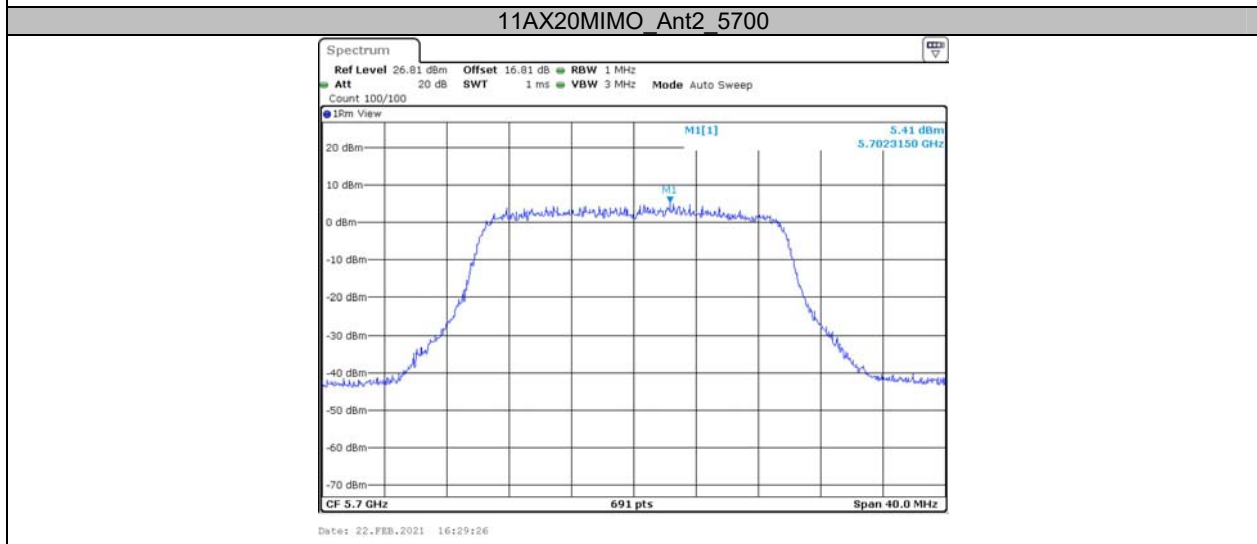
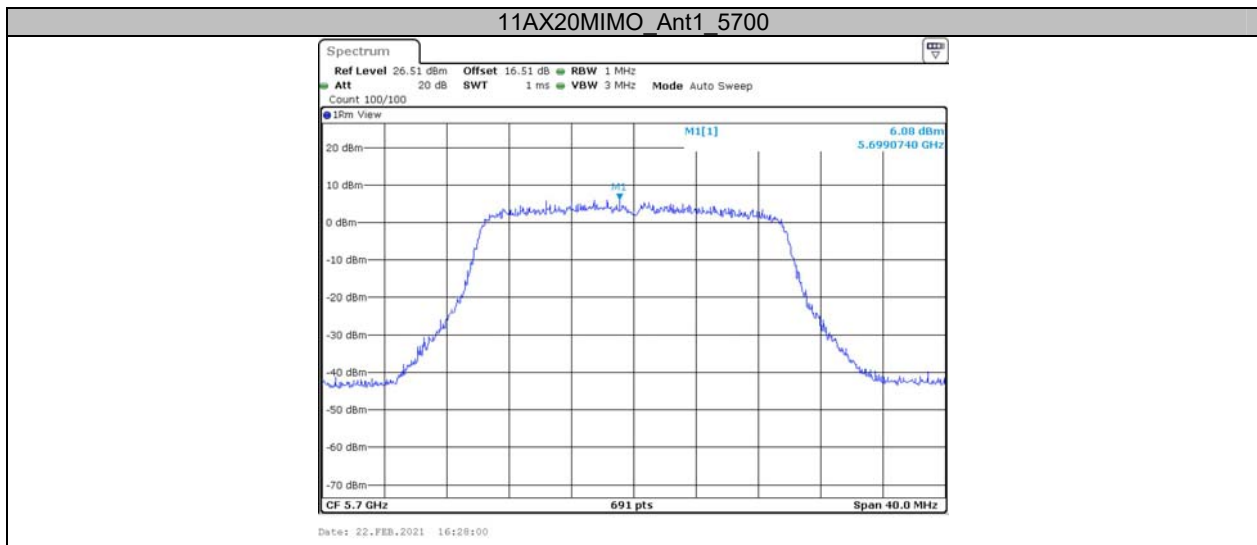
11AX20MIMO Ant2 5280

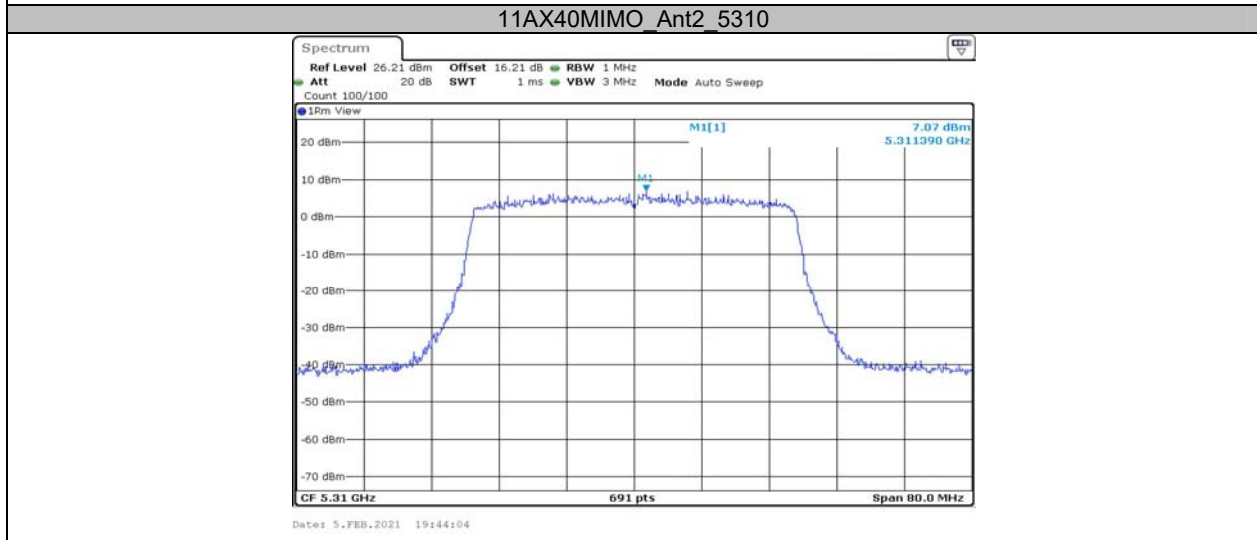
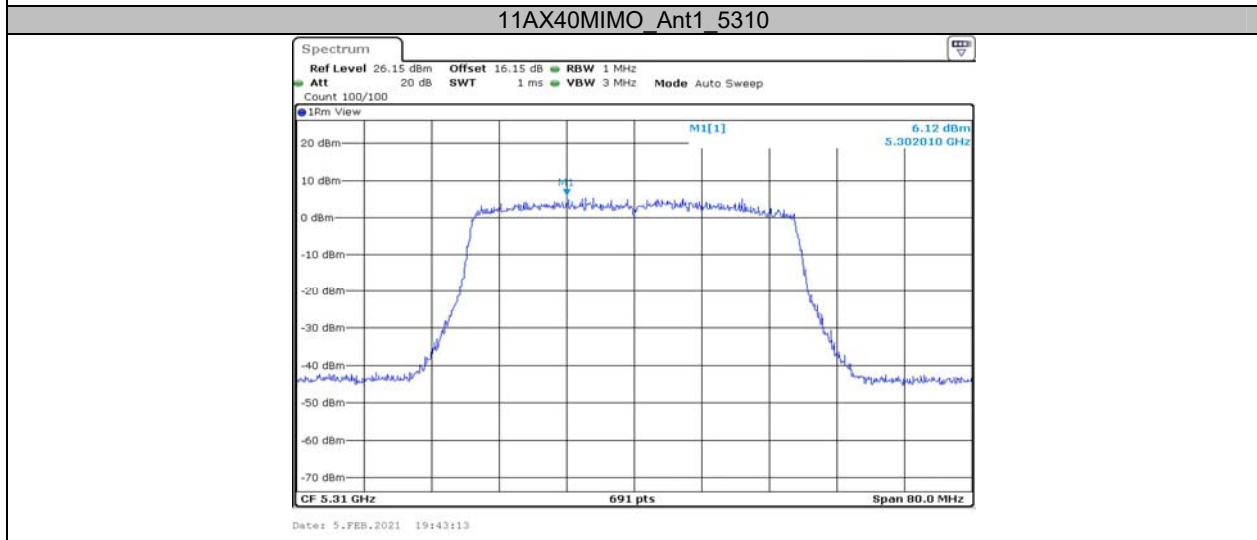
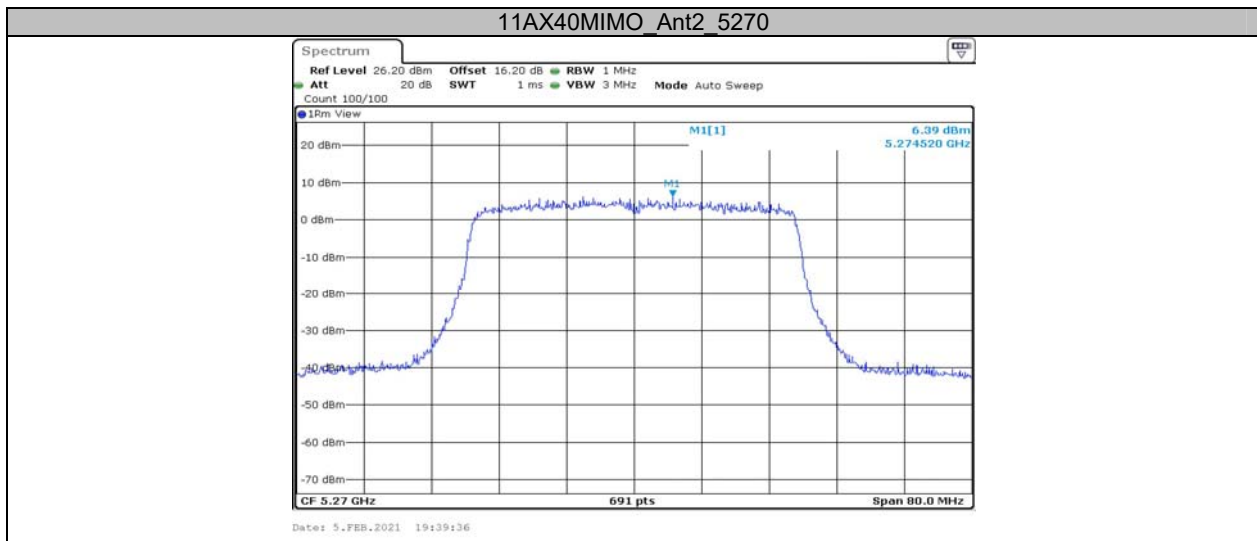


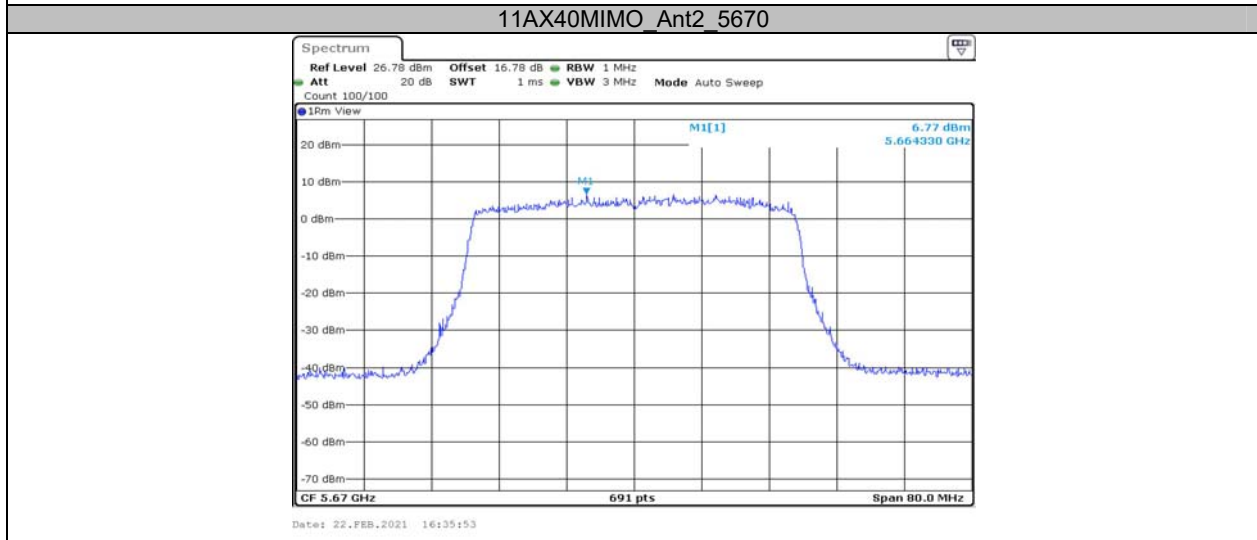
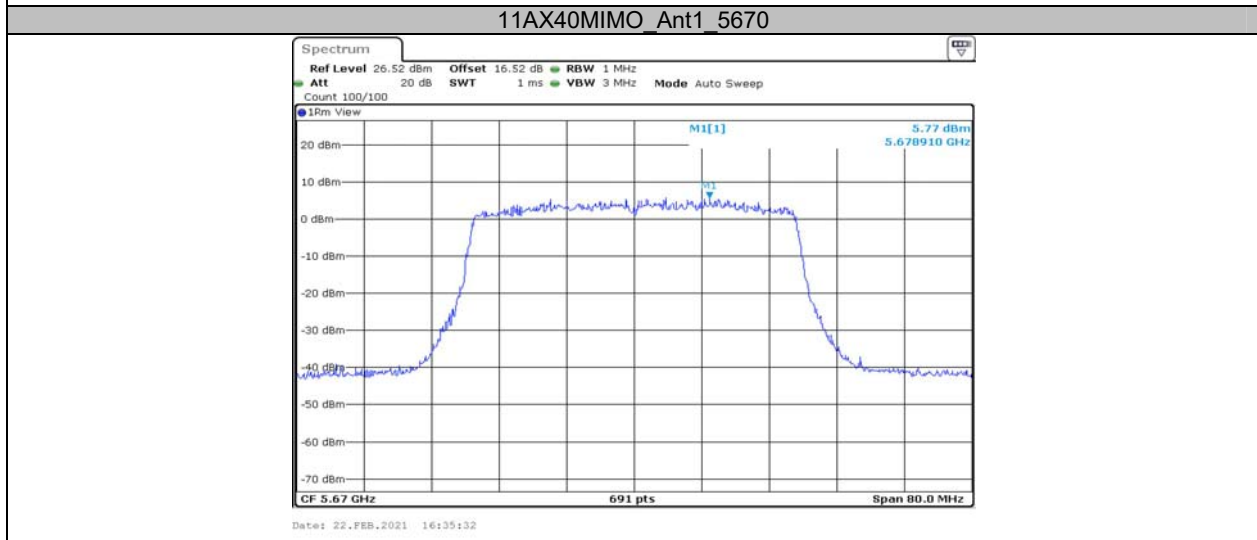
Date: 5.FEB.2021 18:43:07



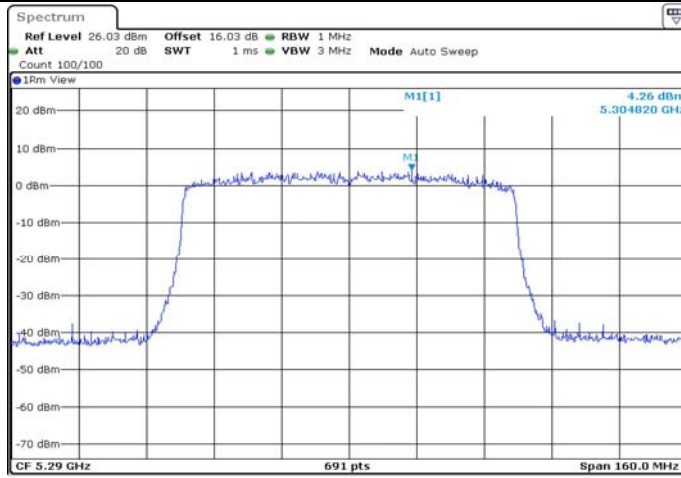




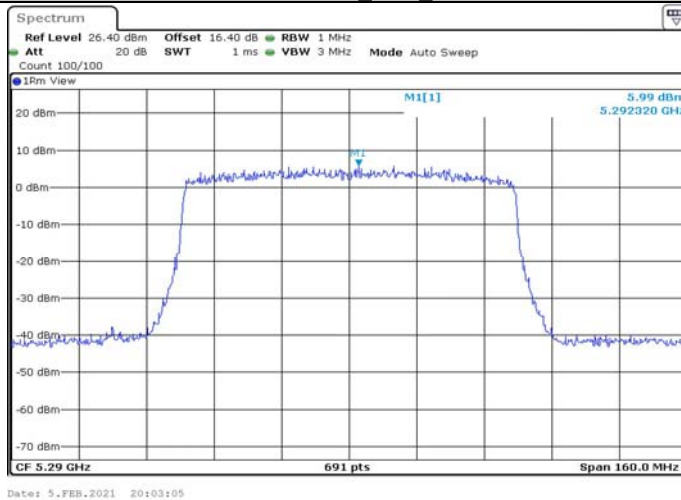




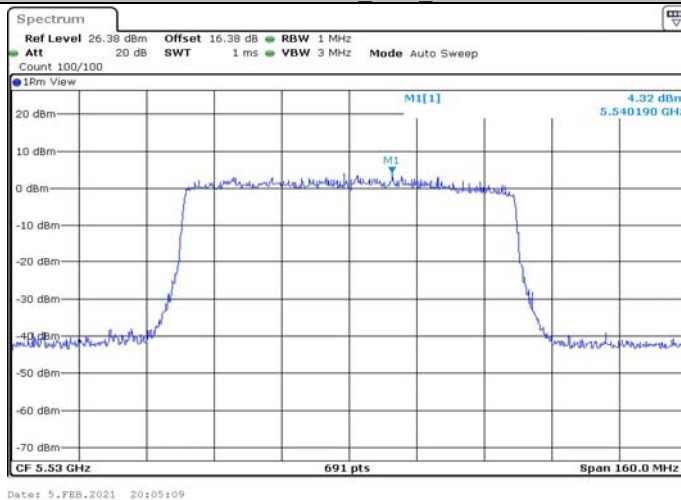
11AX80MIMO Ant1 5290

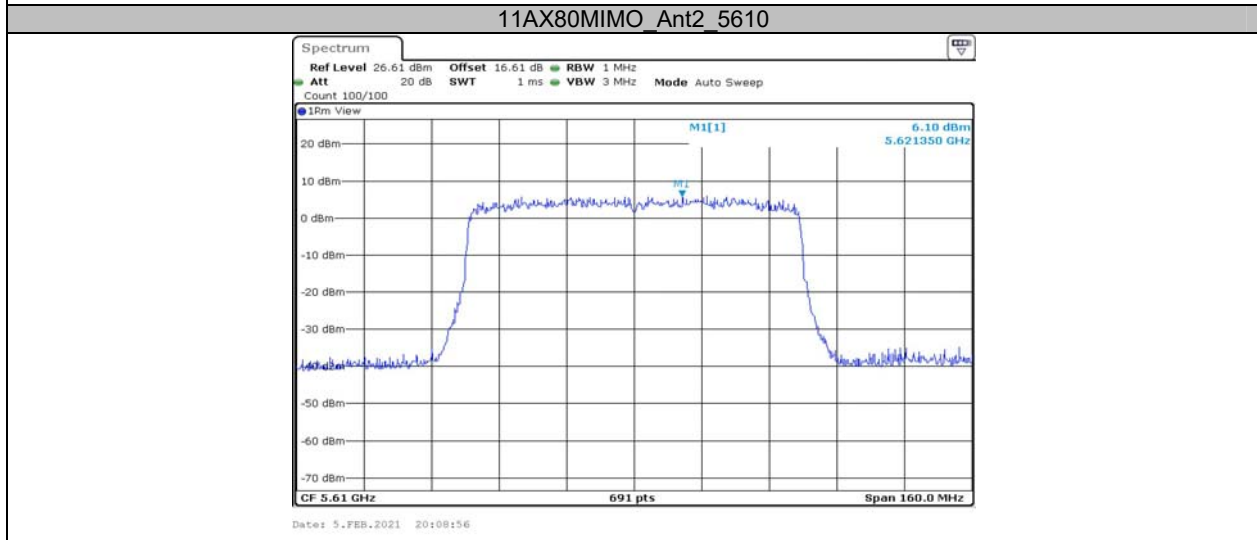
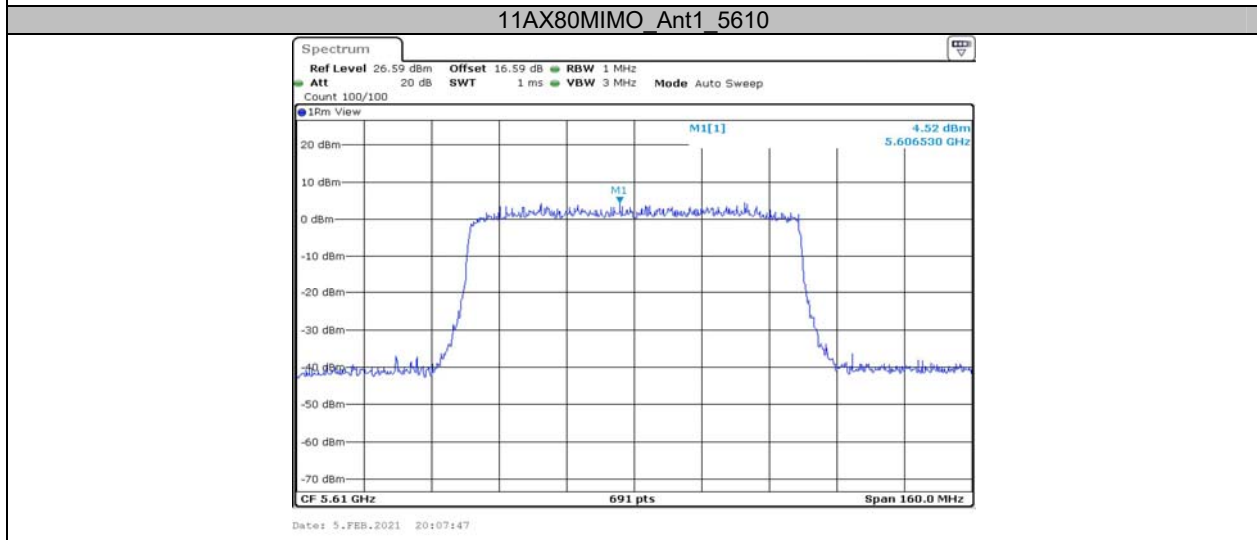
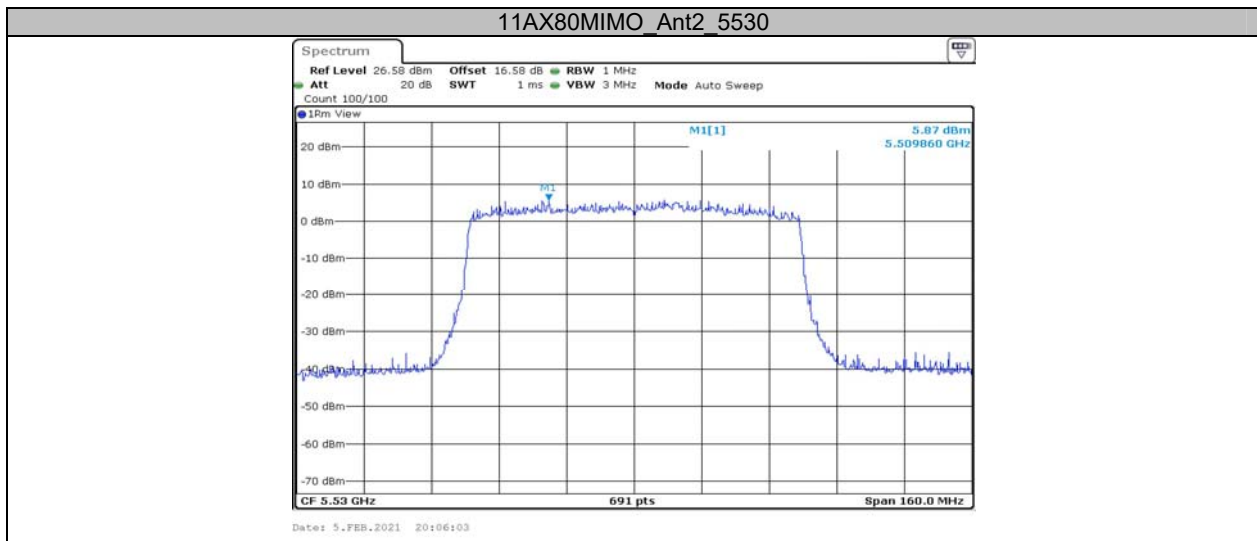


11AX80MIMO Ant2 5290



11AX80MIMO Ant1 5530

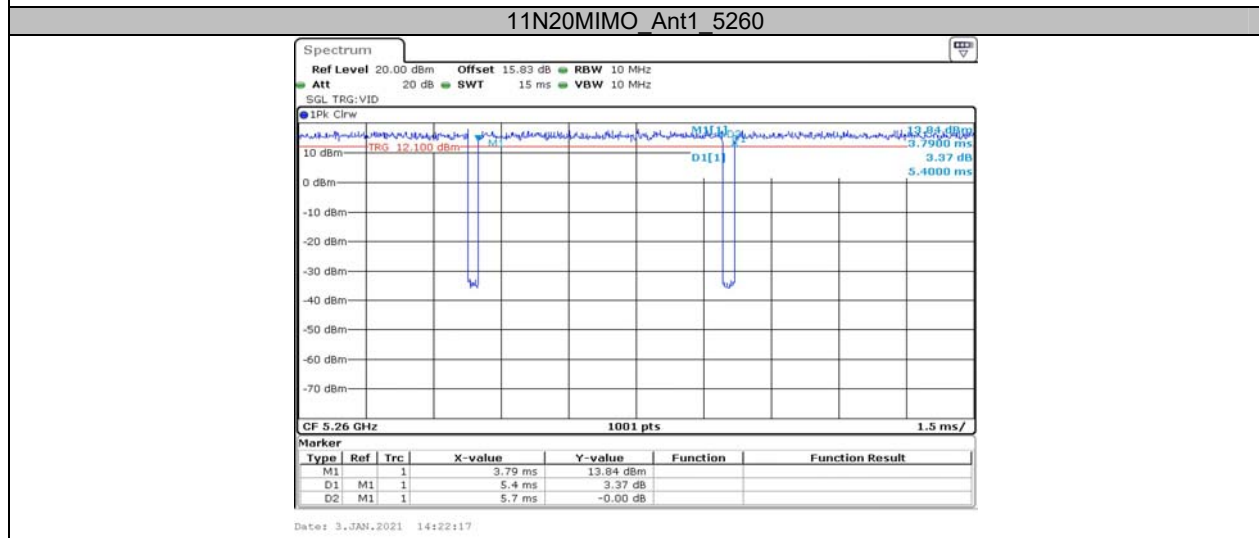
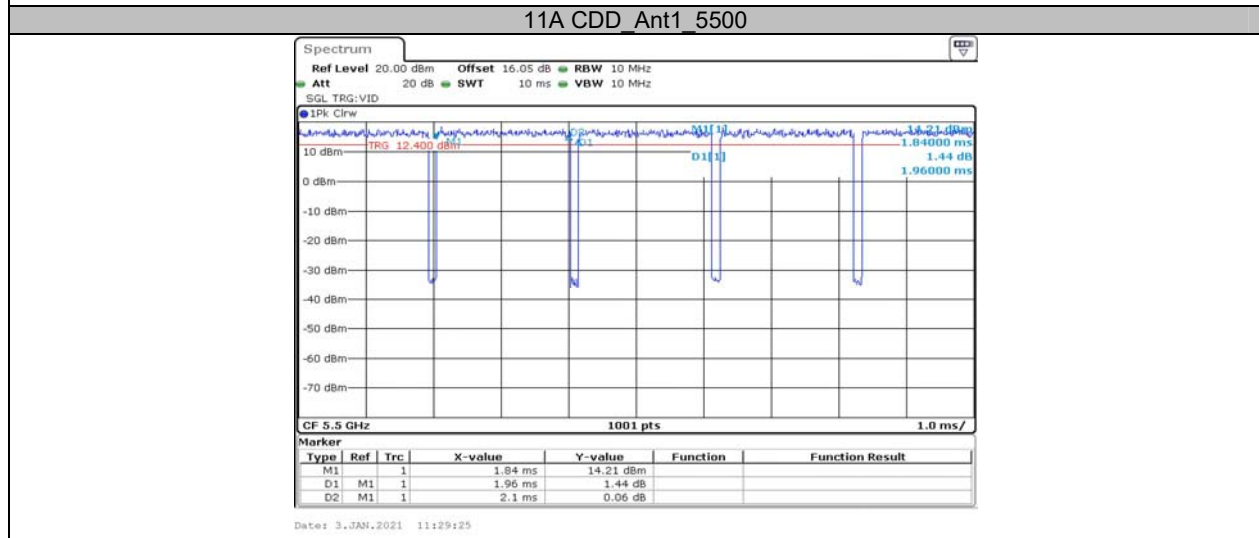
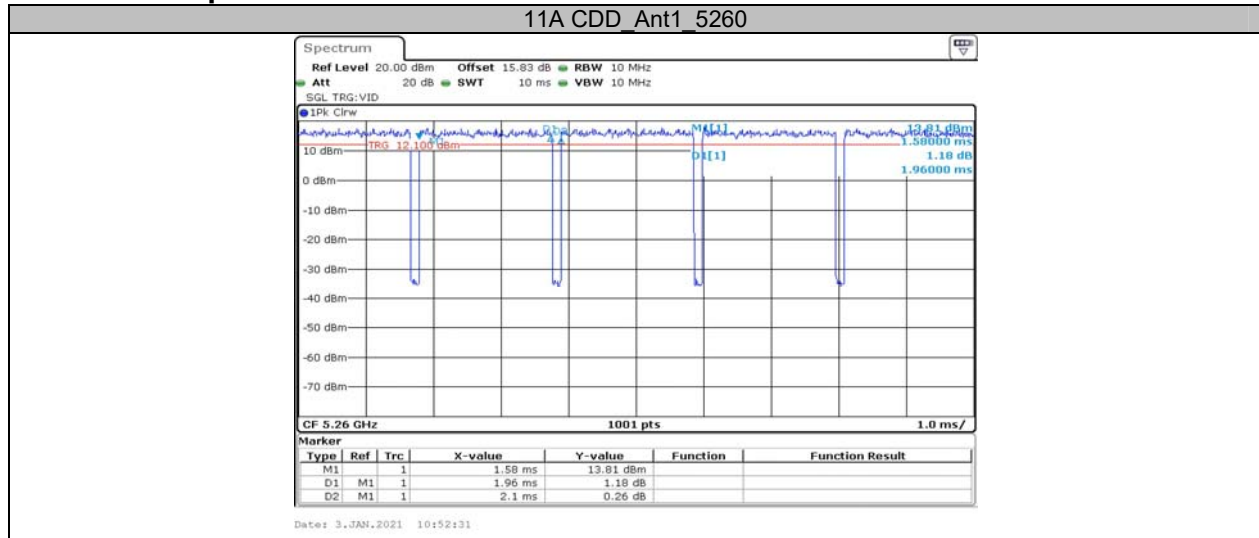


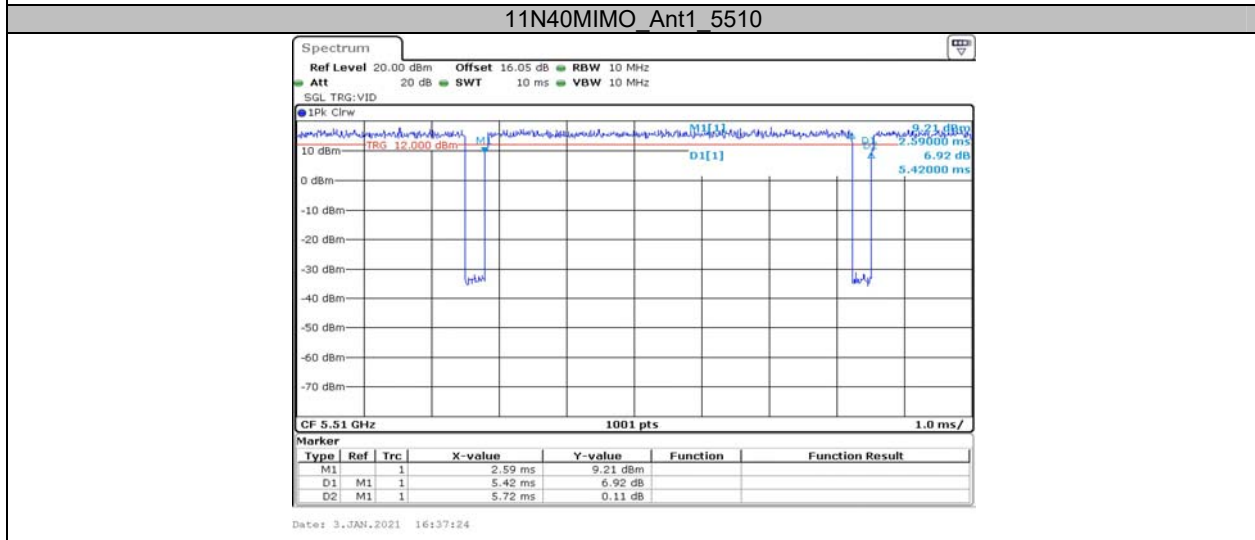
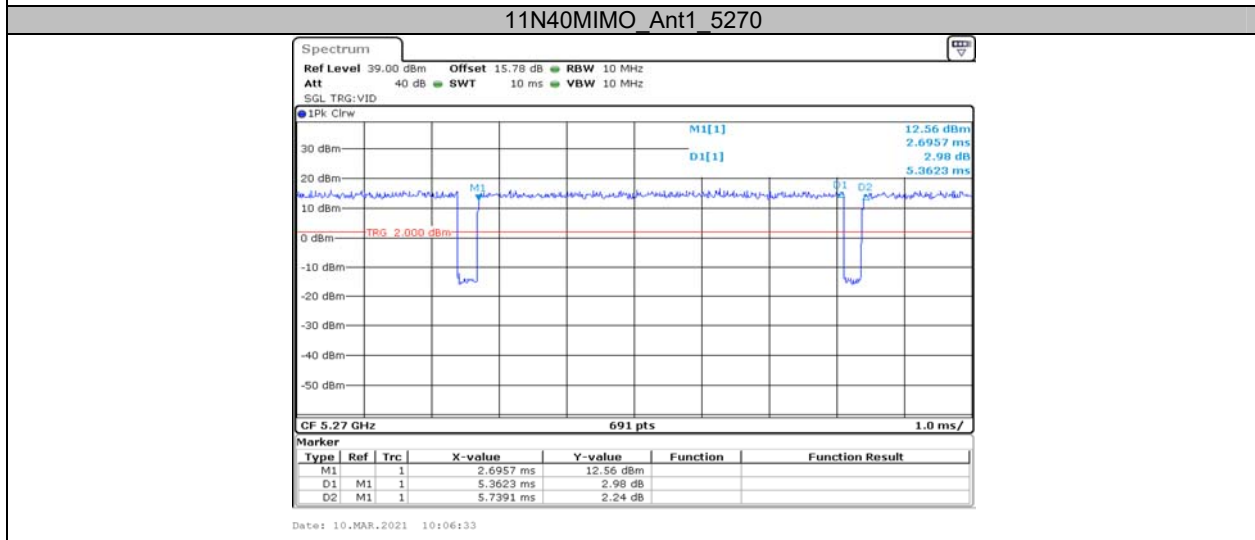
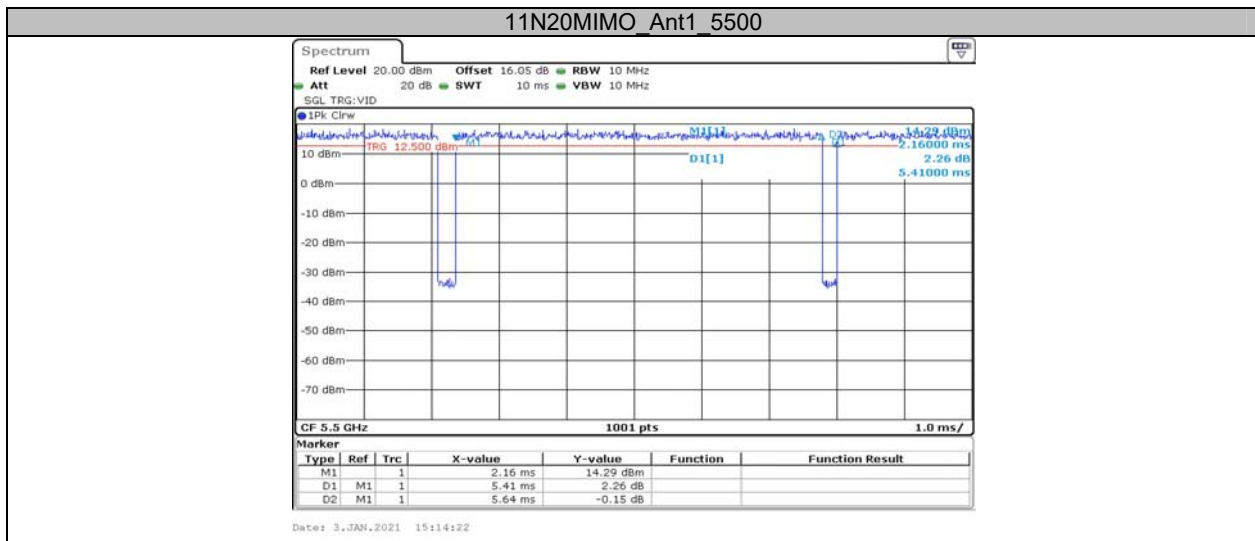


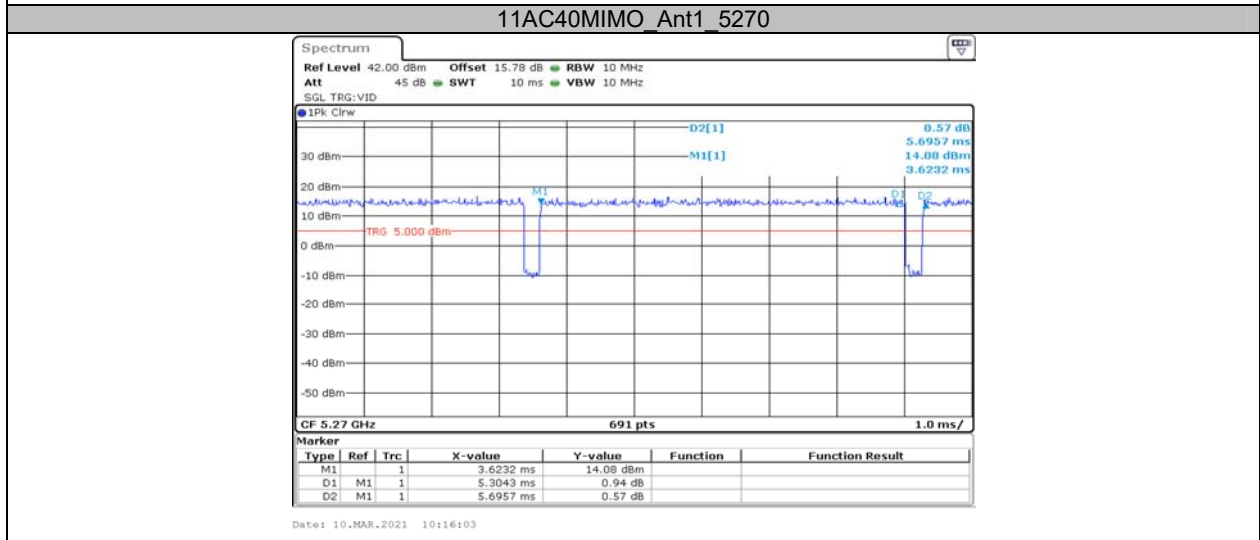
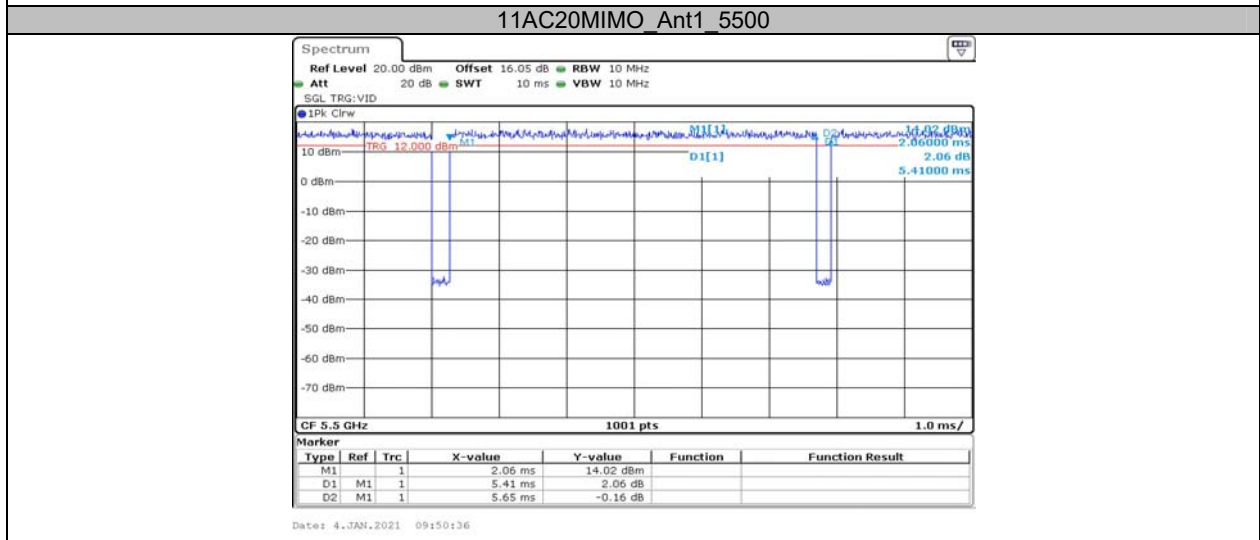
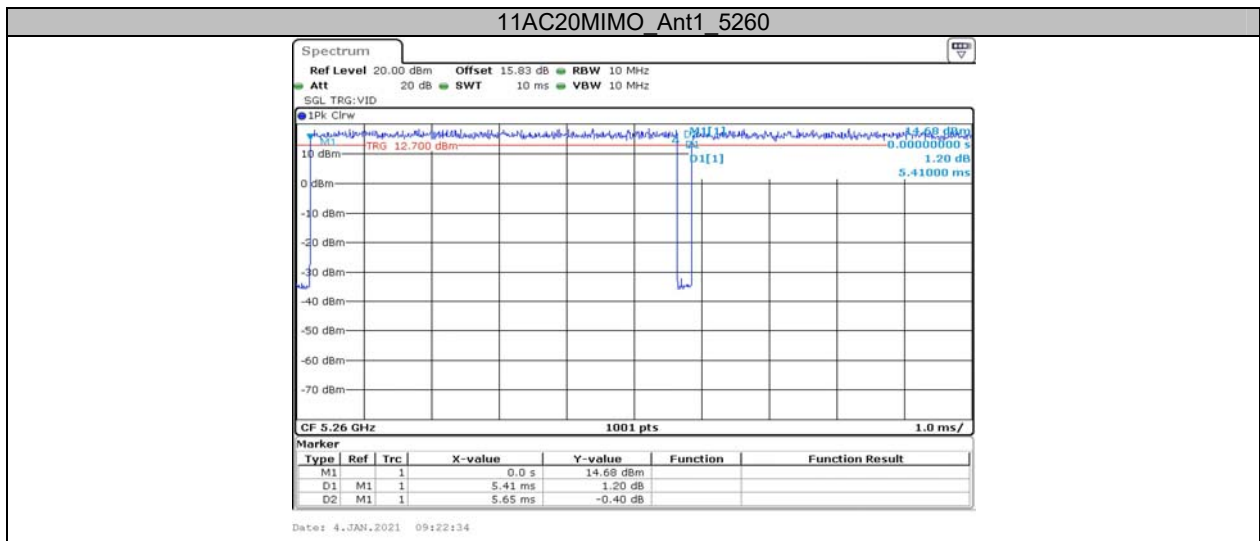
Appendix D: Duty Cycle Test Result

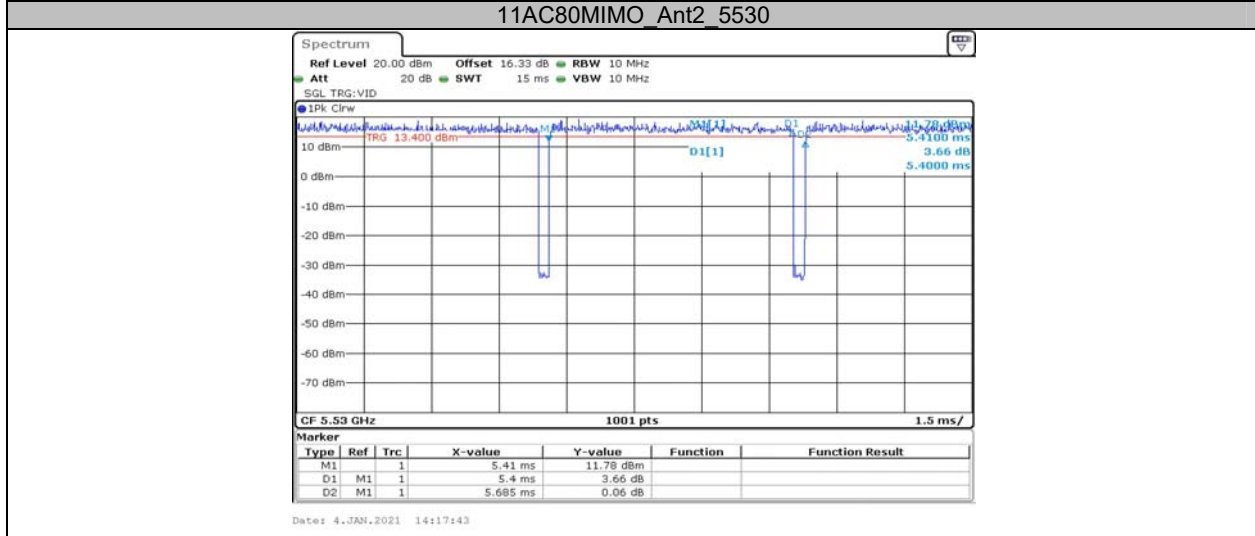
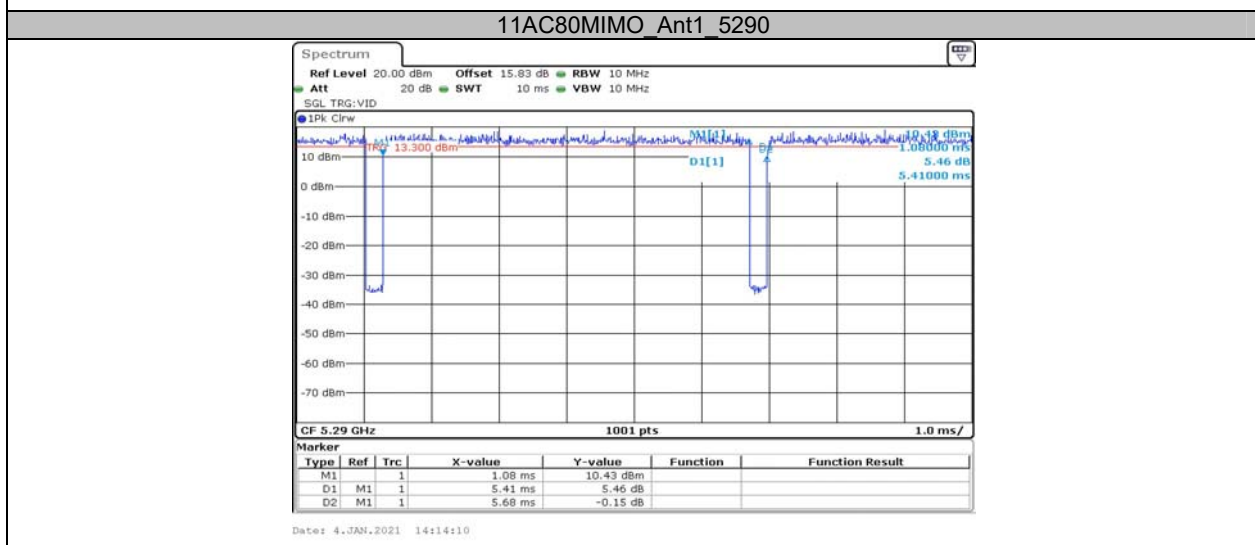
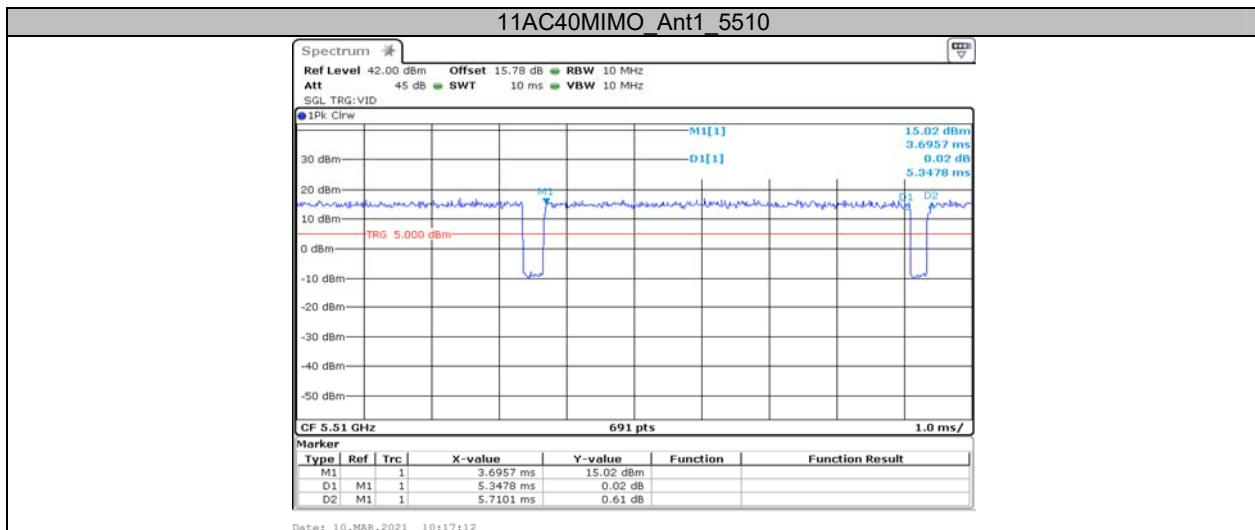
TestMode	Antenna	Channel	TransmissionDuration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A CDD	Ant1	5260	1.96	2.10	93.33
	Ant1	5500	1.96	2.10	93.33
11N20MIMO	Ant1	5260	5.40	5.70	94.74
	Ant1	5500	5.41	5.64	95.92
11N40MIMO	Ant1	5270	5.36	5.74	93.38
	Ant1	5510	5.42	5.72	94.76
11AC20MIMO	Ant1	5260	5.41	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

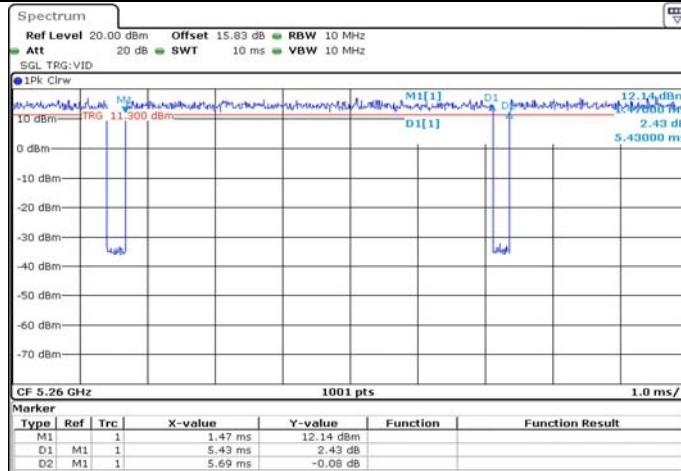






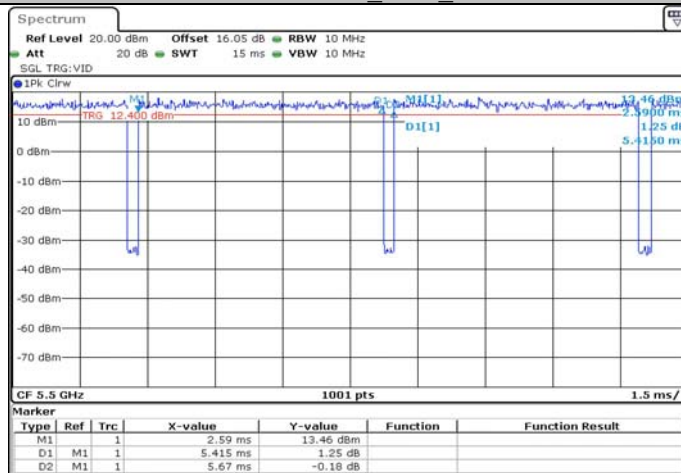


11AX20MIMO_Ant1_5260



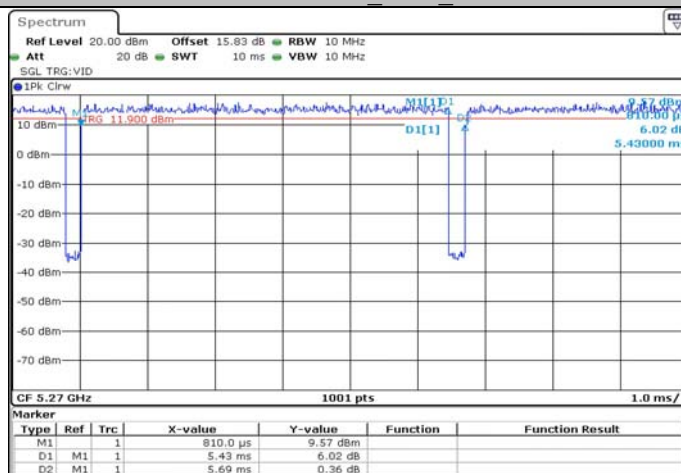
Date: 9, JAN, 2021 18:28:41

11AX20MIMO_Ant1_5500

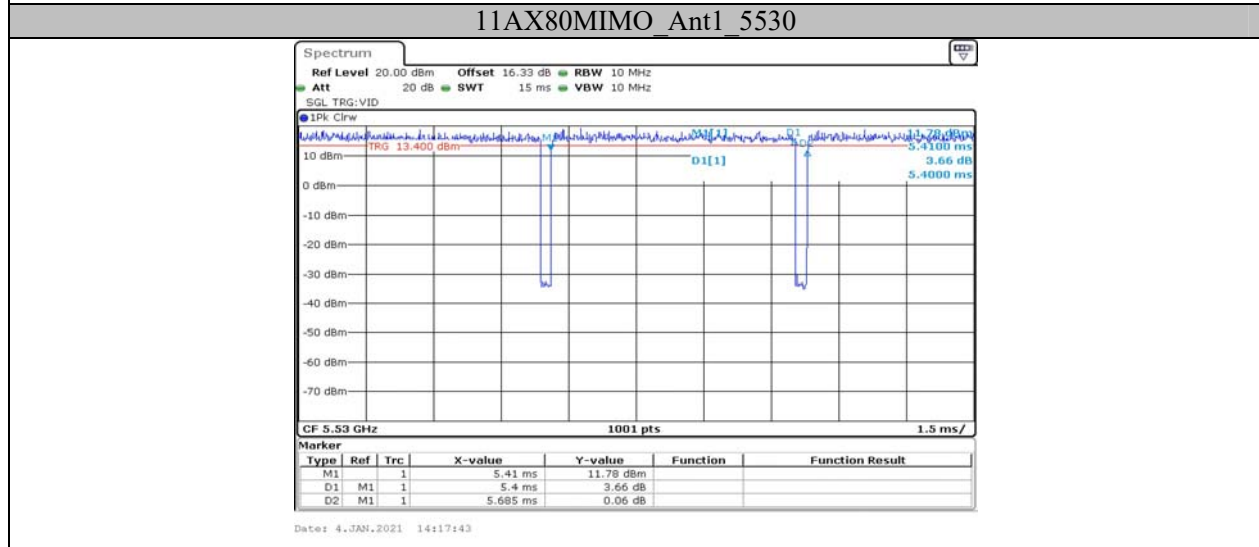
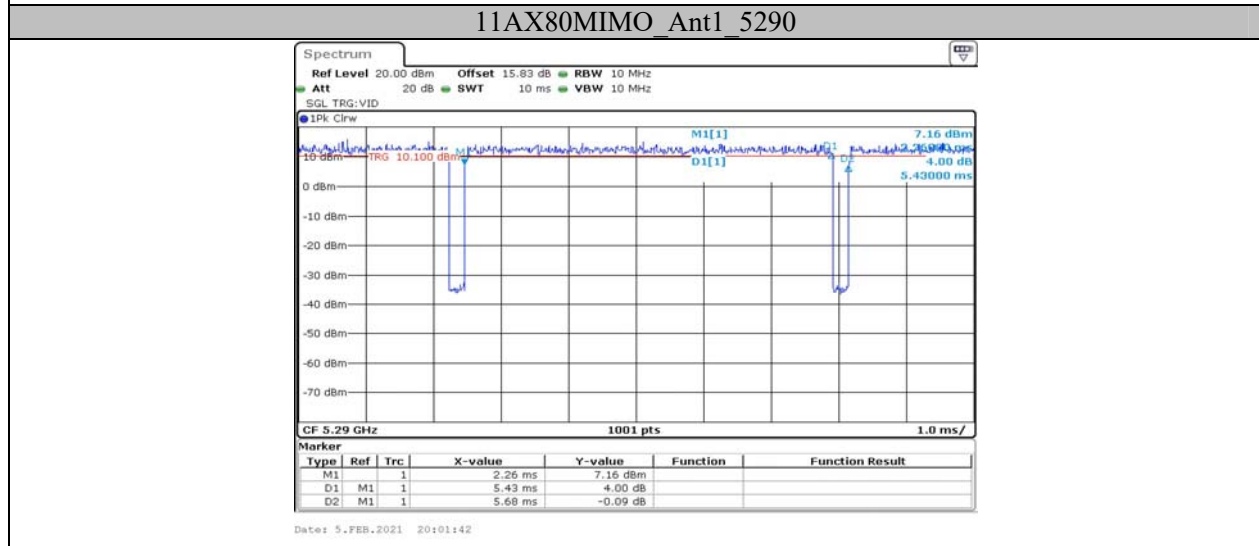
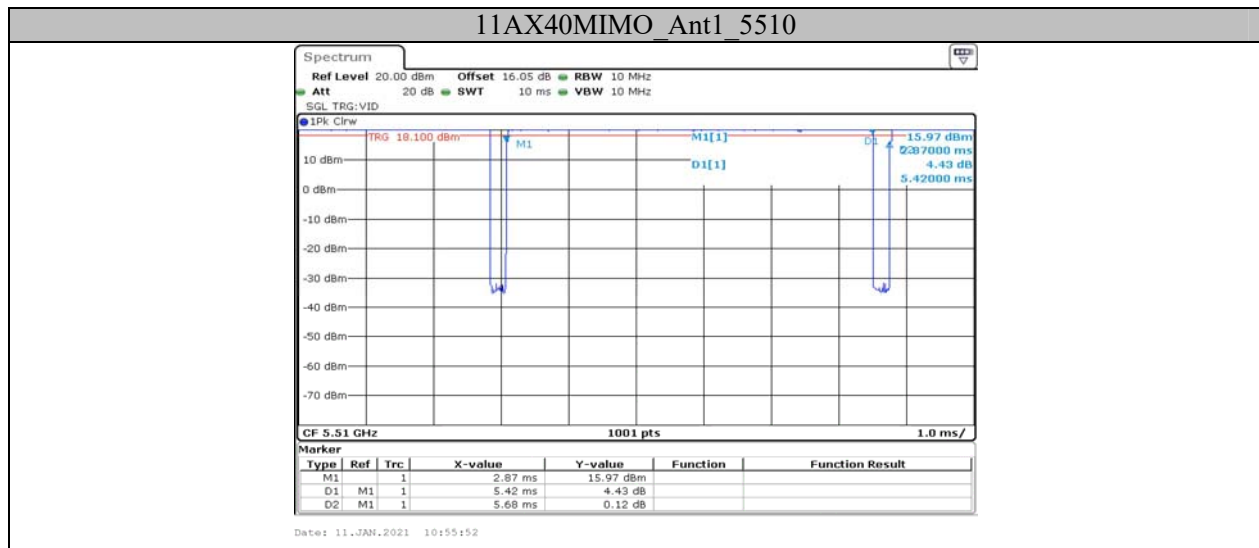


Date: 9, JAN, 2021 18:40:59

11AX40MIMO_Ant1_5270



Date: 11, JAN, 2021 12:01:54



**** END OF REPORT ****