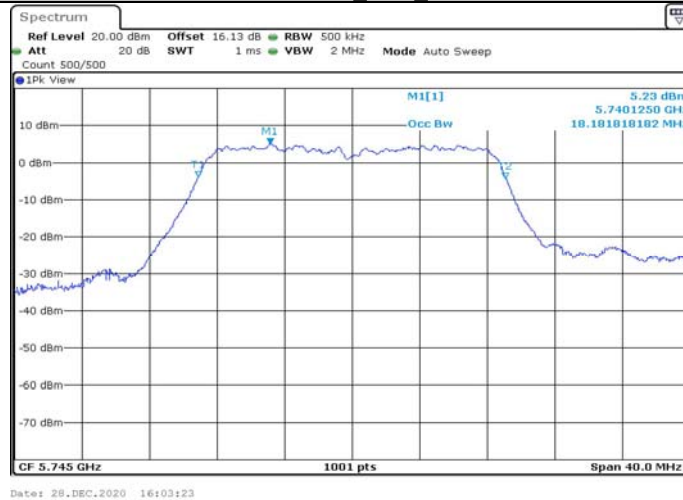
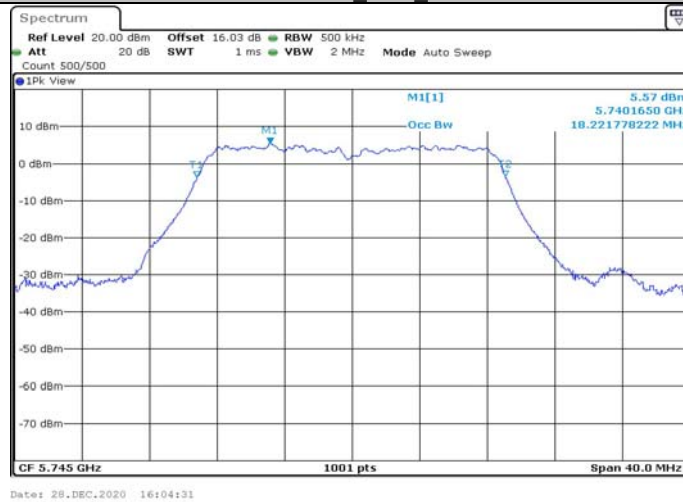


11N20MIMO_Ant1_5745



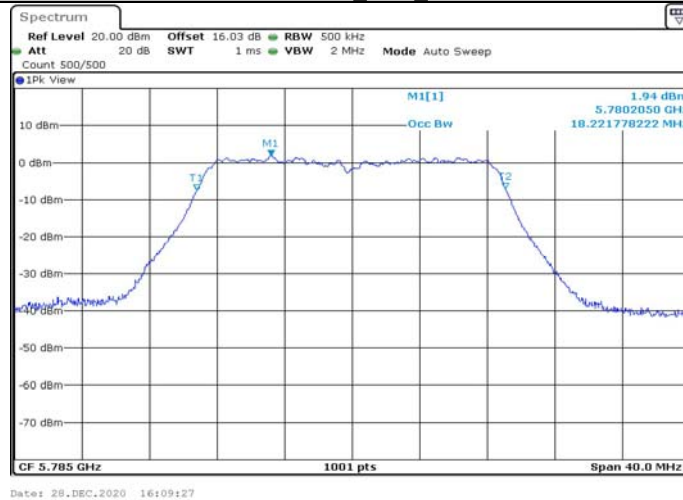
11N20MIMO_Ant2_5745



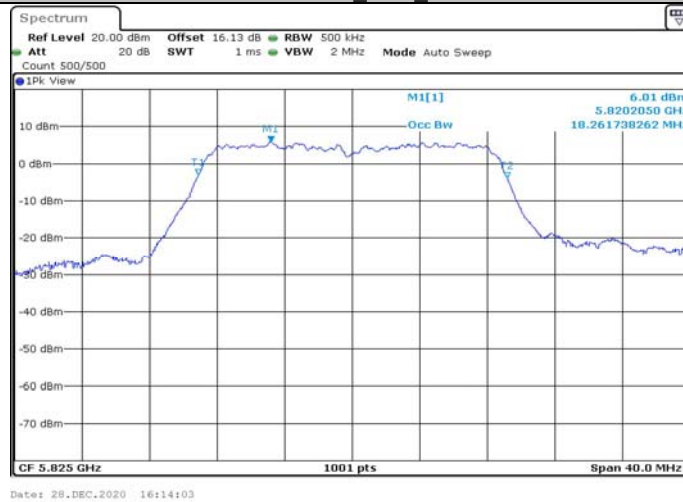
11N20MIMO_Ant1_5785



11N20MIMO_Ant2_5785



11N20MIMO_Ant1_5825



11N20MIMO_Ant2_5825



11N40MIMO_Ant1_5190



11N40MIMO_Ant2_5190



11N40MIMO_Ant1_5230



11N40MIMO_Ant2_5230



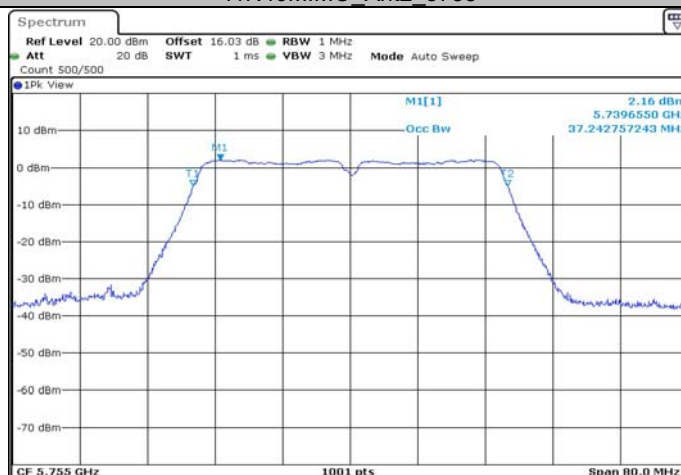
Date: 28.DEC.2020 16:25:32

11N40MIMO_Ant1_5755

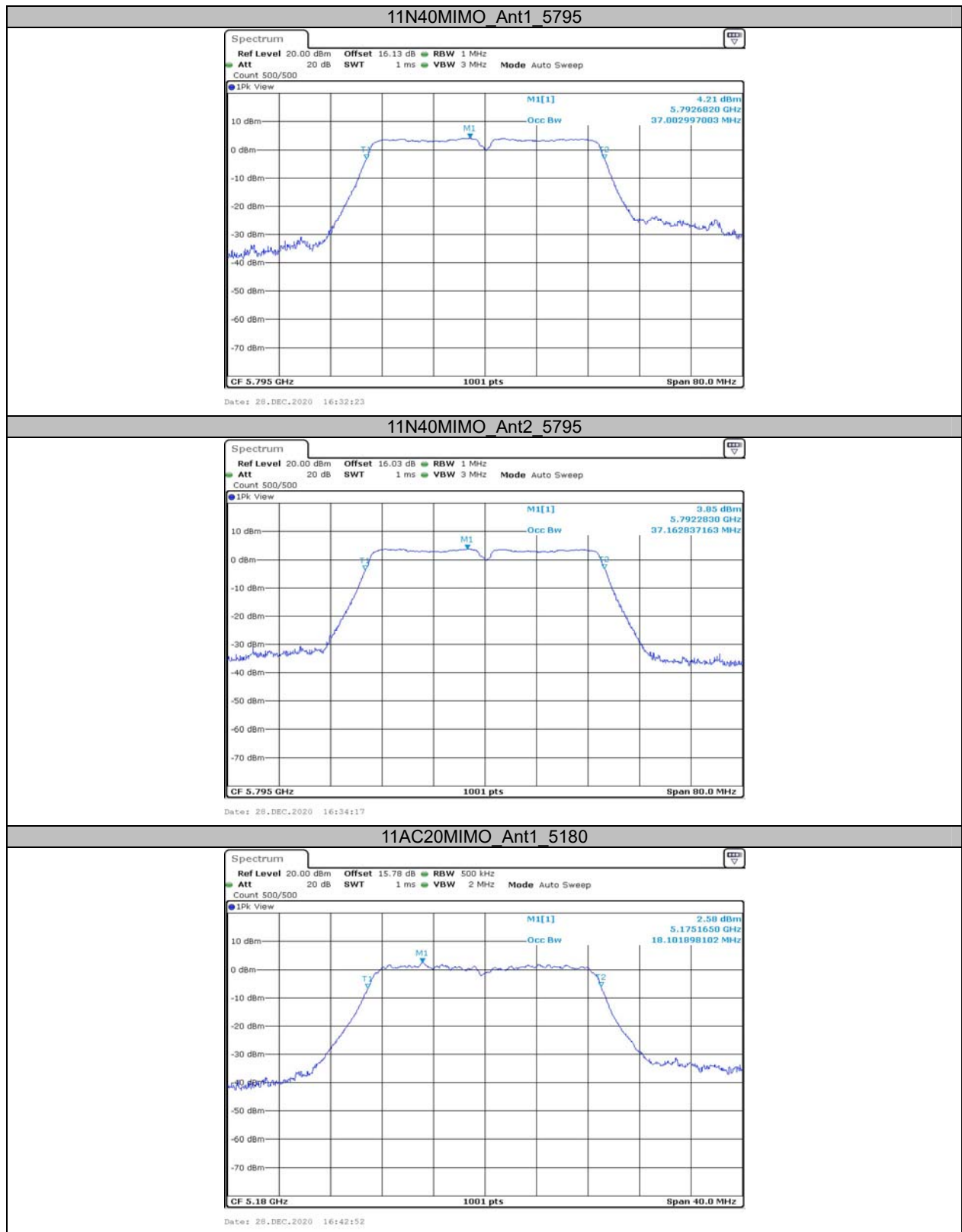


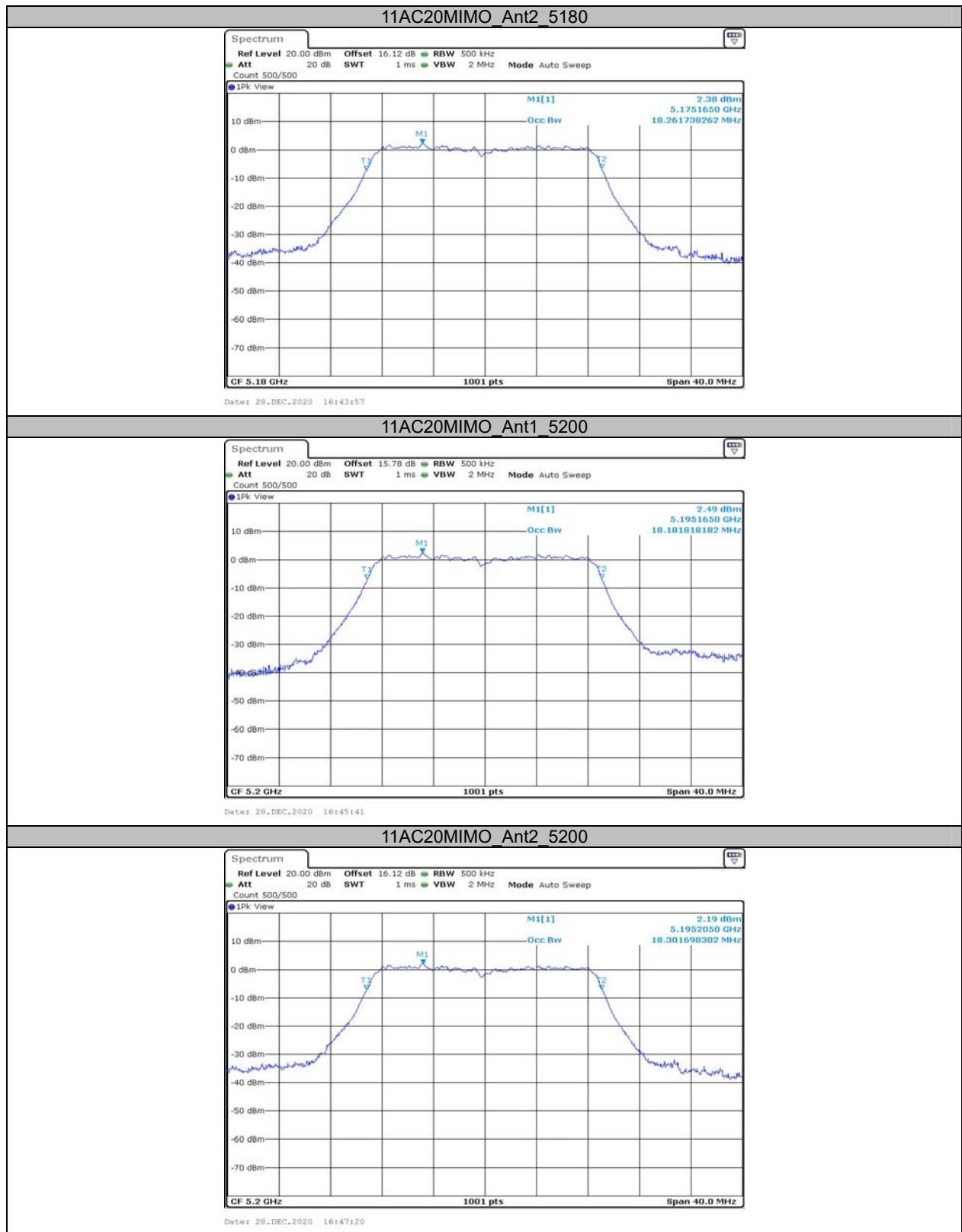
Date: 28.DEC.2020 16:28:46

11N40MIMO_Ant2_5755

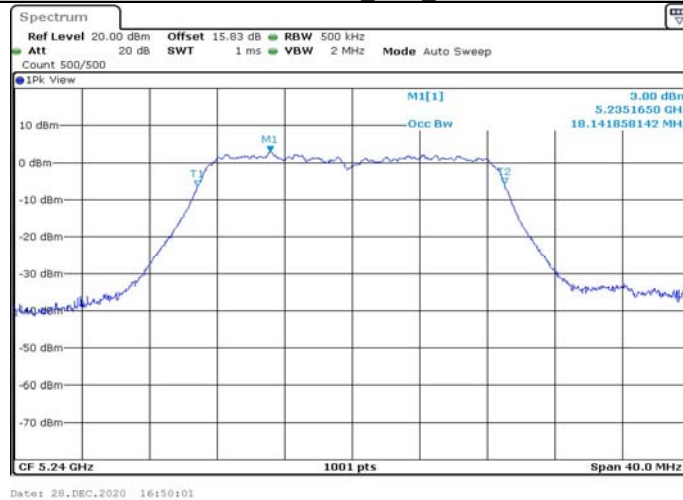


Date: 28.DEC.2020 16:30:03

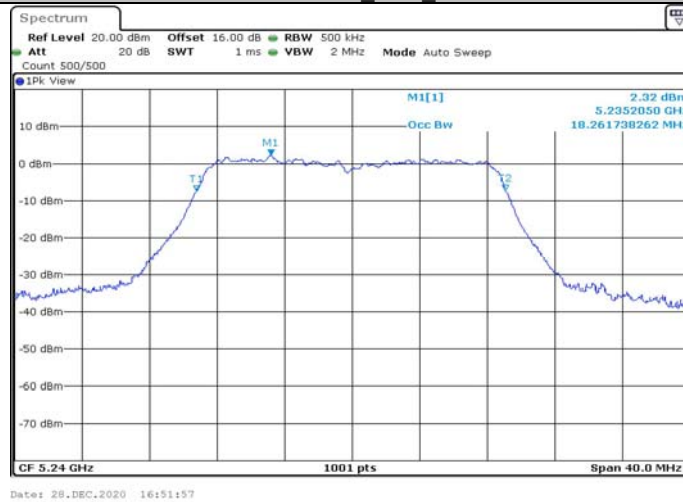




11AC20MIMO Ant1_5240

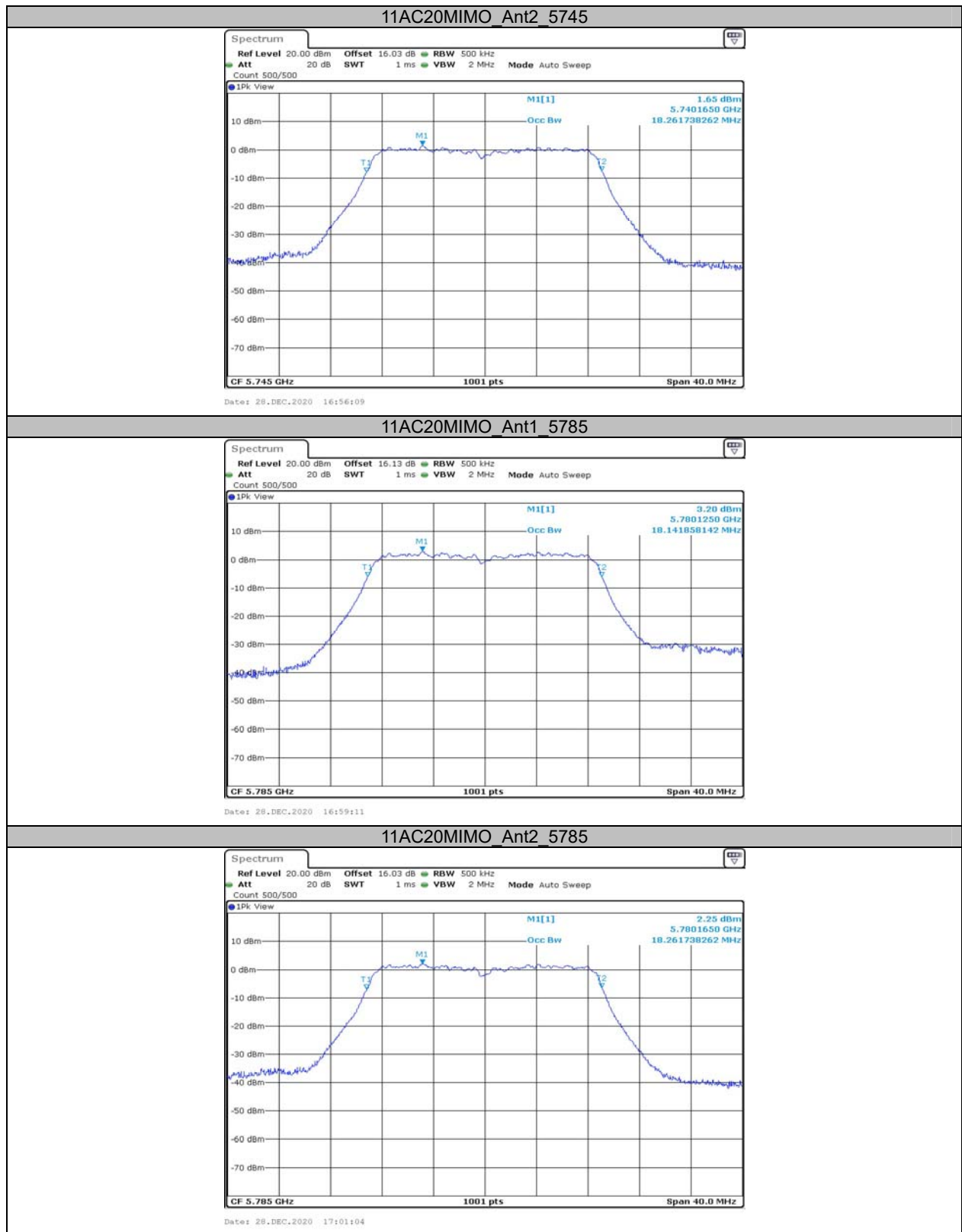


11AC20MIMO Ant2_5240

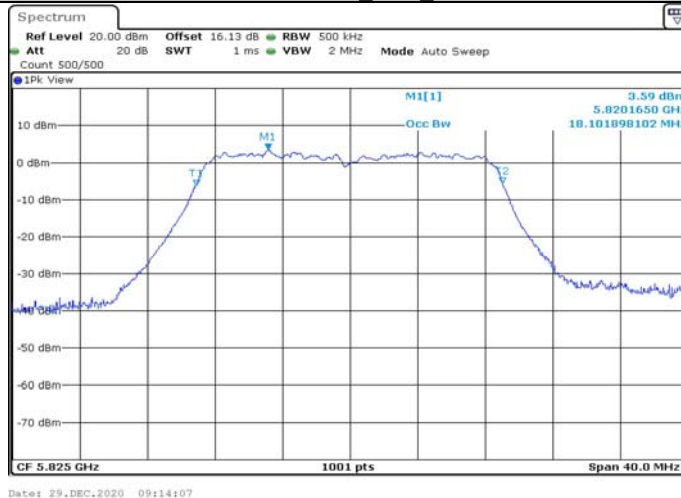


11AC20MIMO Ant1_5745





11AC20MIMO Ant1 5825

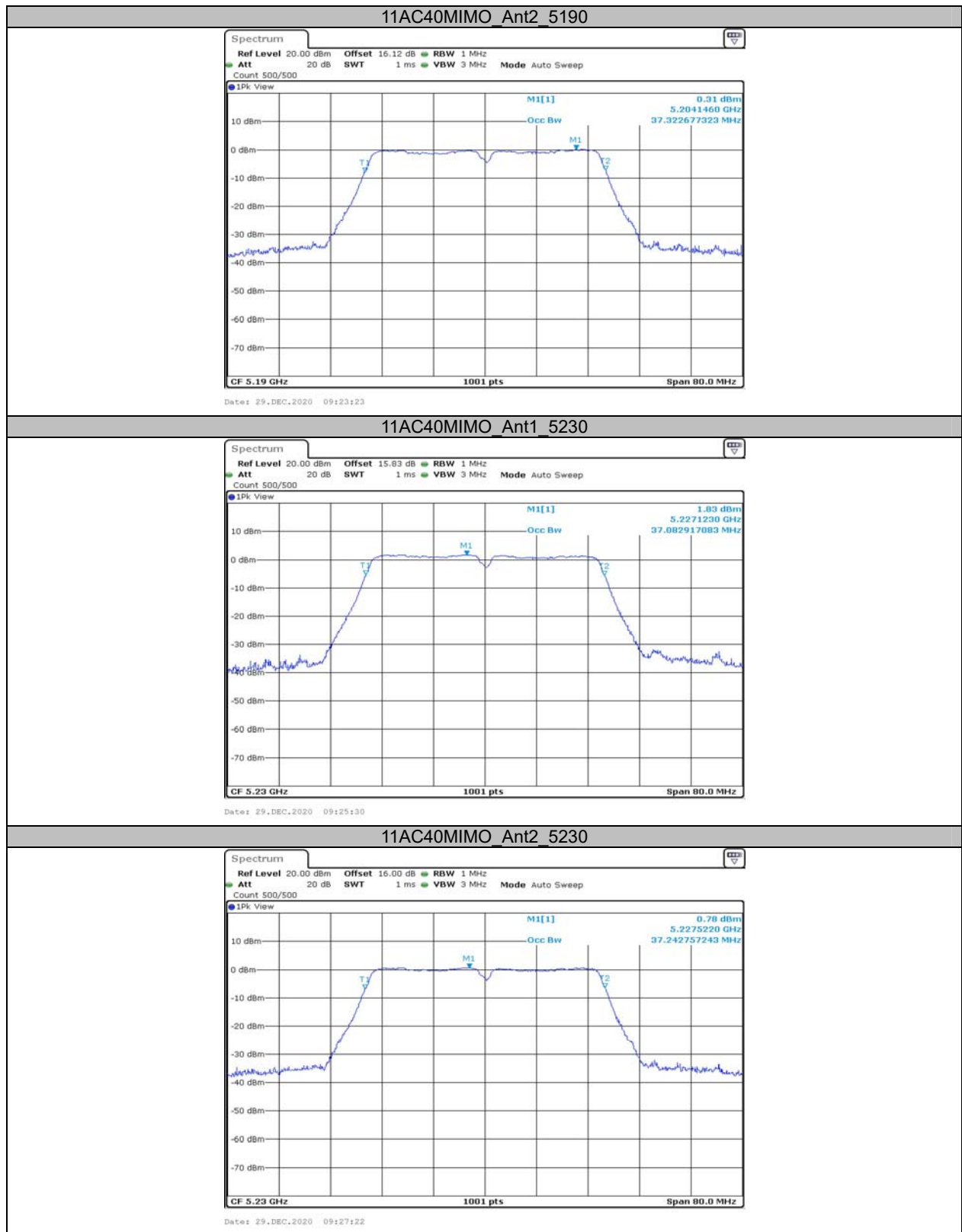


11AC20MIMO Ant2 5825

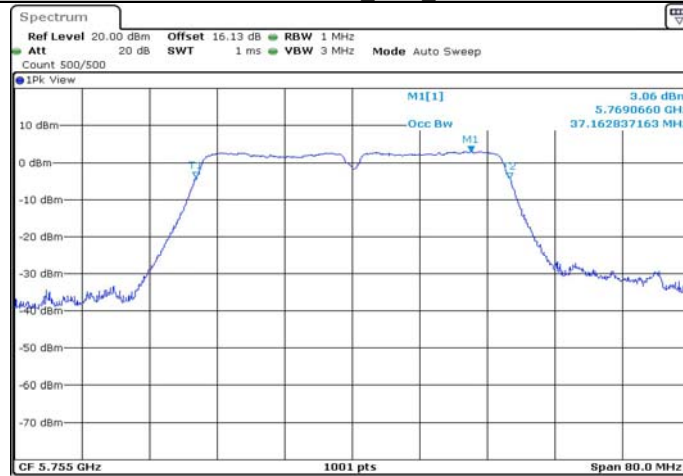


11AC40MIMO Ant1 5190



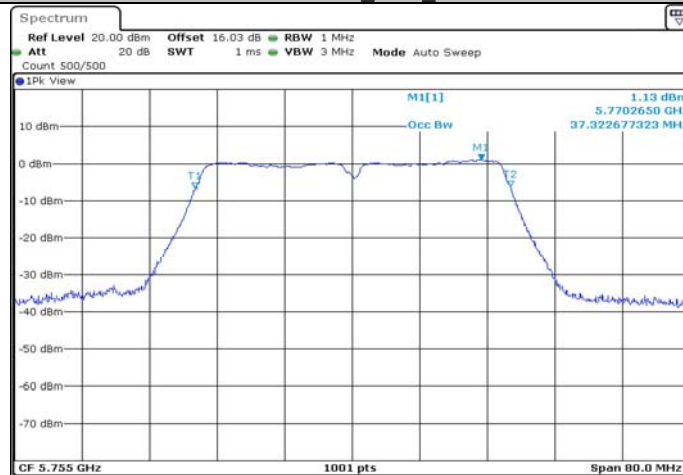


11AC40MIMO Ant1 5755



Date: 29, DEC, 2020 09:30:31

11AC40MIMO Ant2 5755

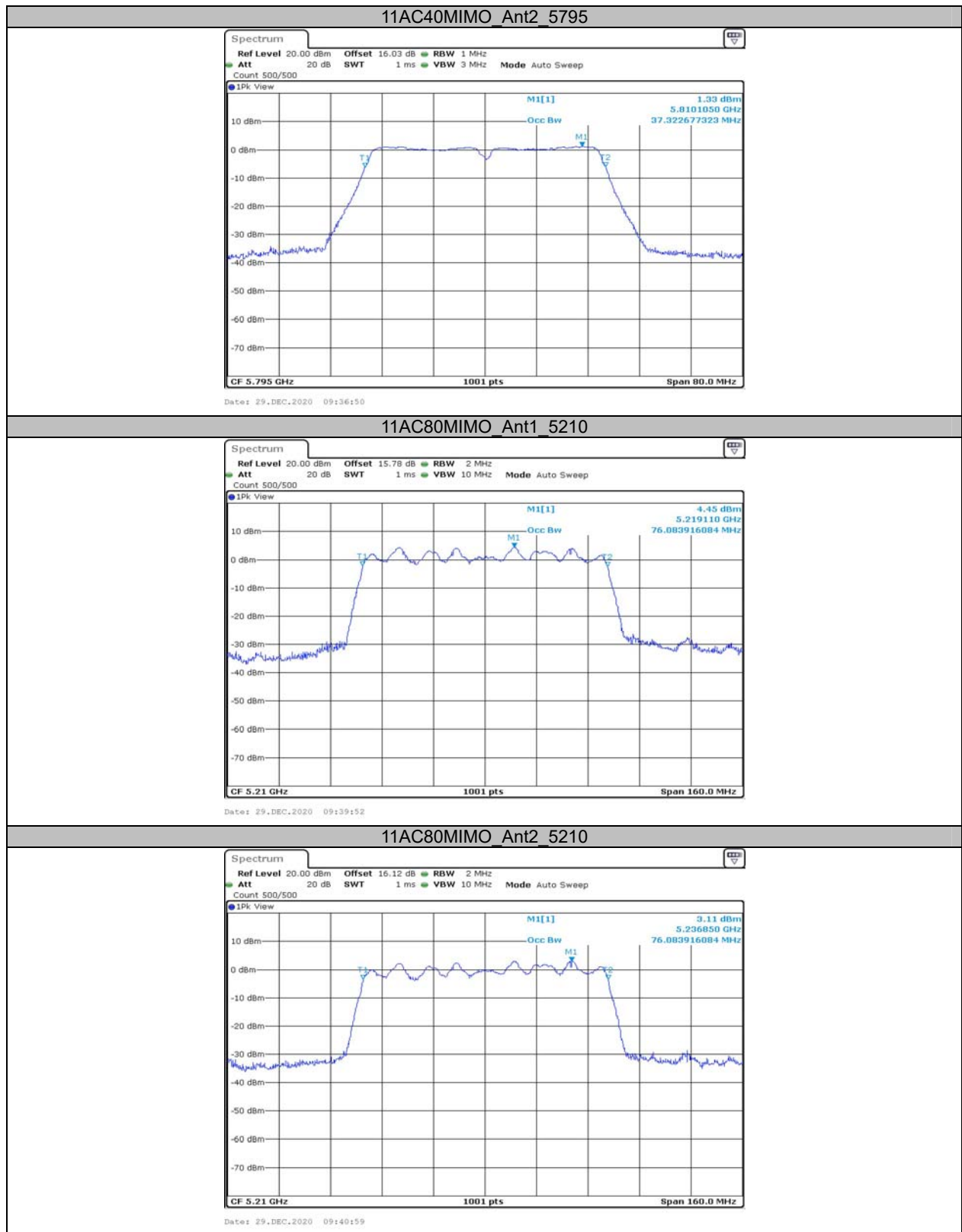


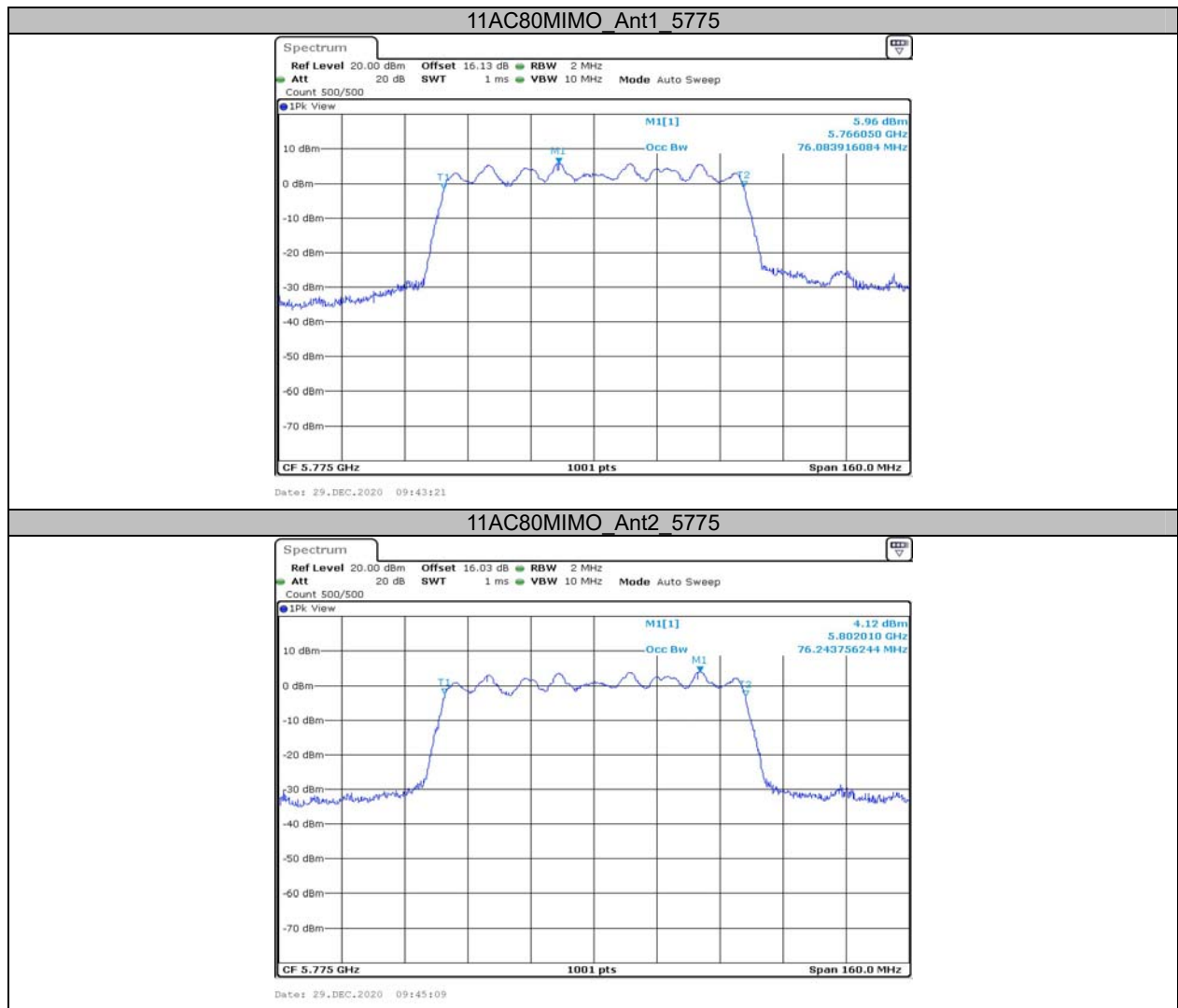
Date: 29, DEC, 2020 09:31:50

11AC40MIMO Ant1 5795



Date: 29, DEC, 2020 09:34:57



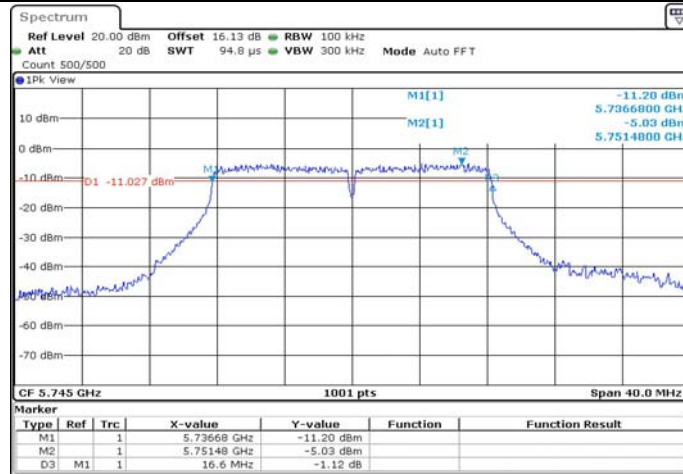


Appendix A3: Min emission bandwidth**Test Result**

TestMode	Antenna	Channel	6db EBW [MHz]	Limit[MHz]	Verdict
11A-CDD	Ant1	5745	16.600	0.5	PASS
	Ant2	5745	16.560	0.5	PASS
	Ant1	5785	16.640	0.5	PASS
	Ant2	5785	16.640	0.5	PASS
	Ant1	5825	16.600	0.5	PASS
	Ant2	5825	16.560	0.5	PASS
11N20MIMO	Ant1	5745	17.680	0.5	PASS
	Ant2	5745	17.720	0.5	PASS
	Ant1	5785	17.720	0.5	PASS
	Ant2	5785	17.840	0.5	PASS
	Ant1	5825	17.680	0.5	PASS
	Ant2	5825	17.760	0.5	PASS
11N40MIMO	Ant1	5755	36.640	0.5	PASS
	Ant2	5755	36.640	0.5	PASS
	Ant1	5795	36.640	0.5	PASS
	Ant2	5795	36.640	0.5	PASS
11AC20MIMO	Ant1	5745	17.680	0.5	PASS
	Ant2	5745	17.720	0.5	PASS
	Ant1	5785	17.720	0.5	PASS
	Ant2	5785	17.840	0.5	PASS
	Ant1	5825	17.680	0.5	PASS
	Ant2	5825	17.760	0.5	PASS
11AC40MIMO	Ant1	5755	36.640	0.5	PASS
	Ant2	5755	36.640	0.5	PASS
	Ant1	5795	36.560	0.5	PASS
	Ant2	5795	36.640	0.5	PASS
11AC80MIMO	Ant1	5775	76.640	0.5	PASS
	Ant2	5775	76.800	0.5	PASS

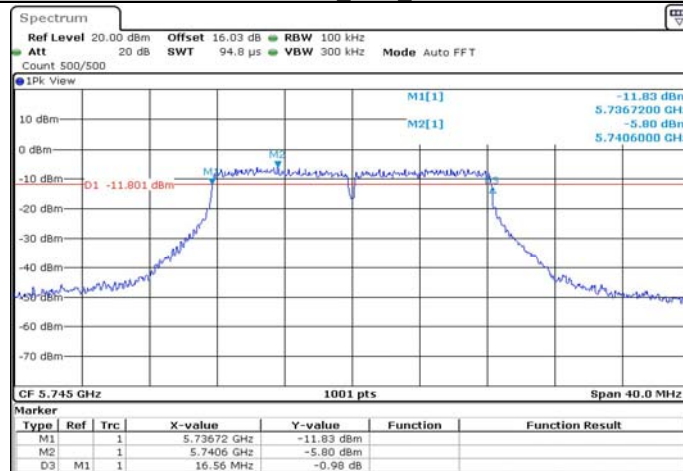
Test Graphs

11A-CDD Ant1 5745



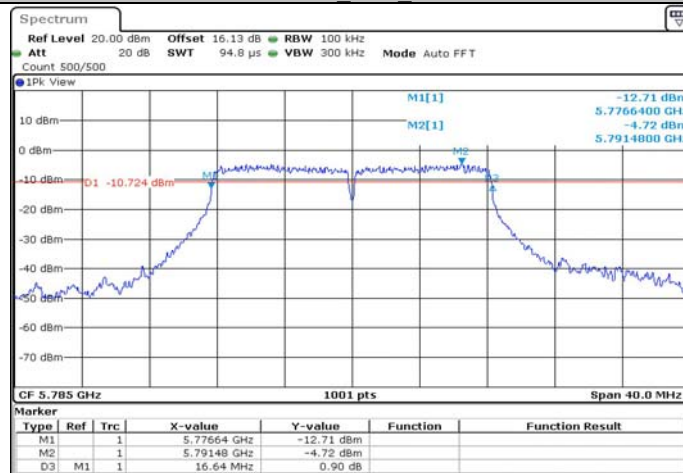
Date: 28.DEC.2020 15:34:14

11A-CDD Ant2 5745

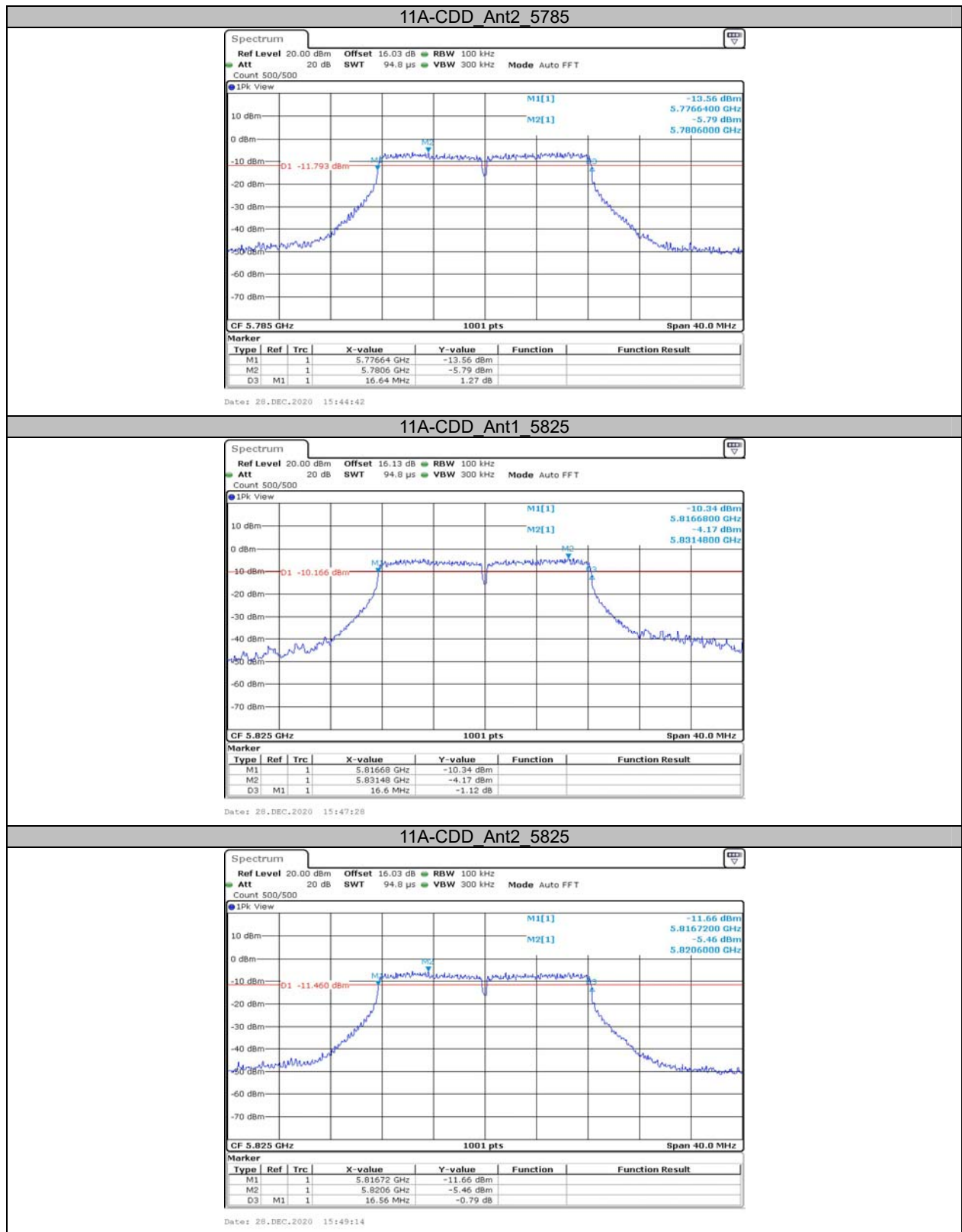


Date: 28.DEC.2020 15:35:58

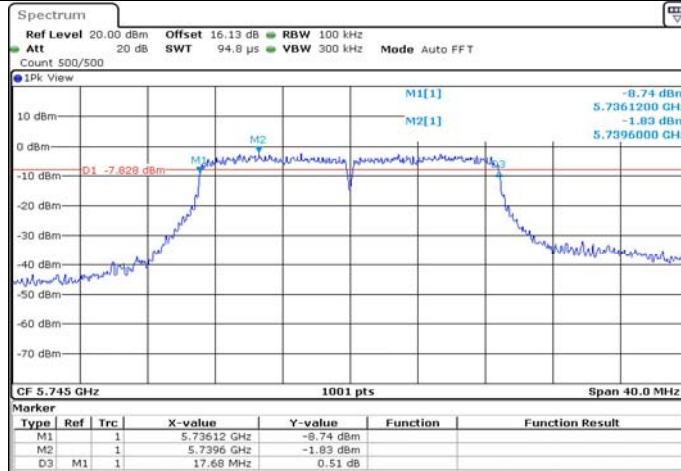
11A-CDD Ant1 5785



Date: 28.DEC.2020 15:42:56

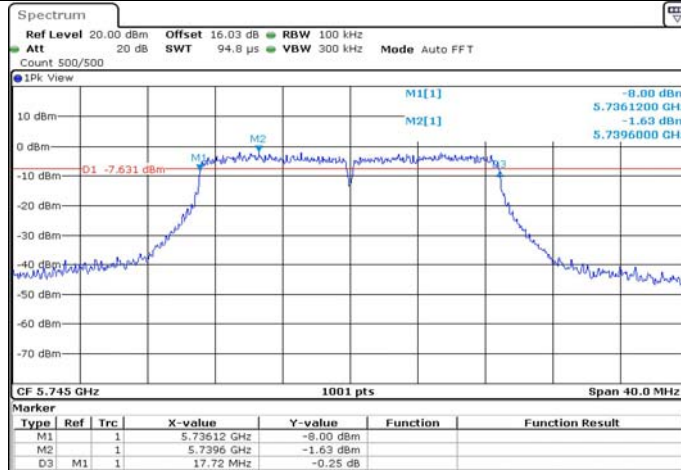


11N20MIMO_Ant1_5745



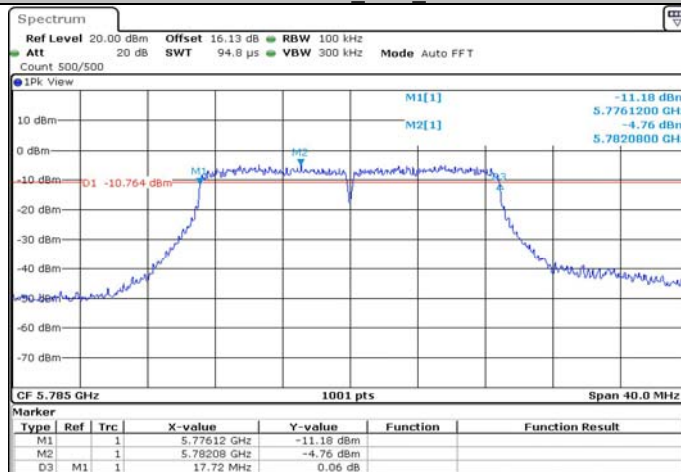
Date: 28.DEC.2020 16:03:13

11N20MIMO_Ant2_5745

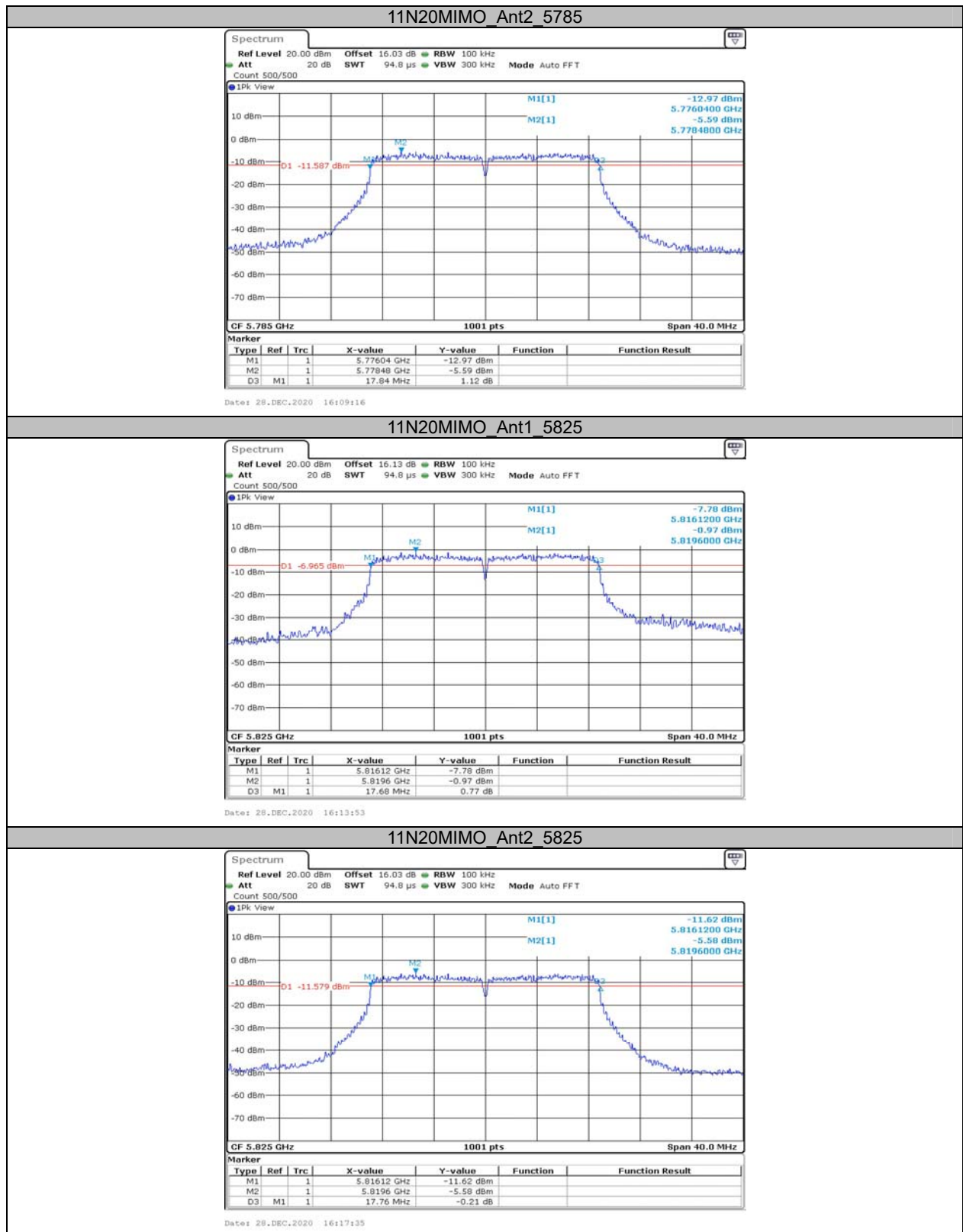


Date: 28.DEC.2020 16:04:21

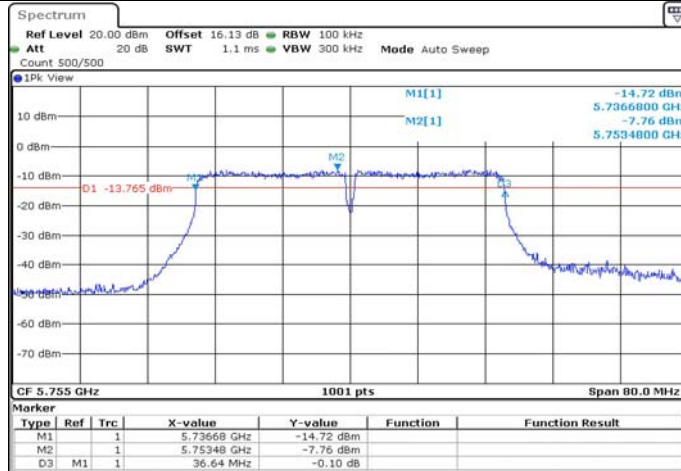
11N20MIMO_Ant1_5785



Date: 28.DEC.2020 16:07:30

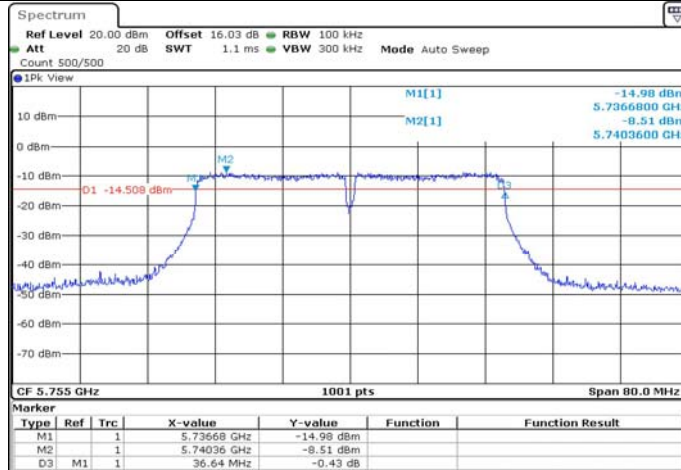


11N40MIMO_Ant1_5755



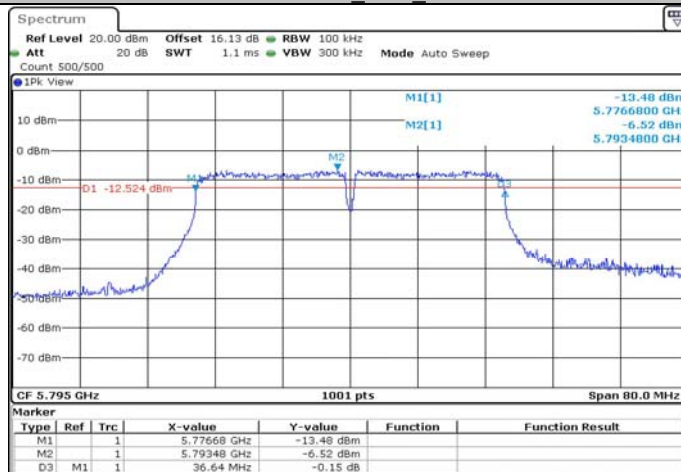
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11N40MIMO_Ant2_5755



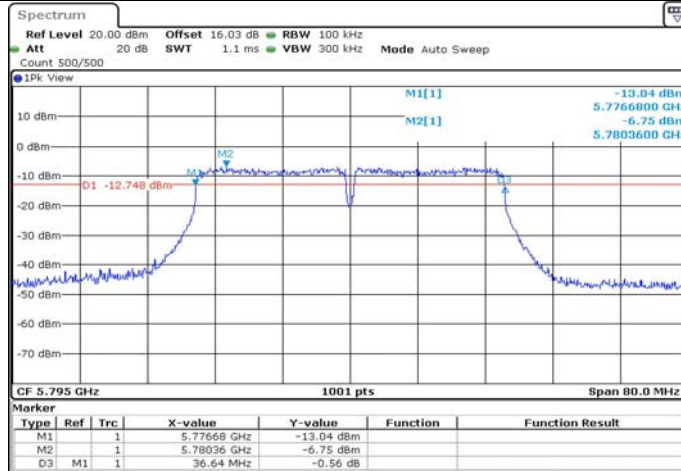
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11N40MIMO_Ant1_5795



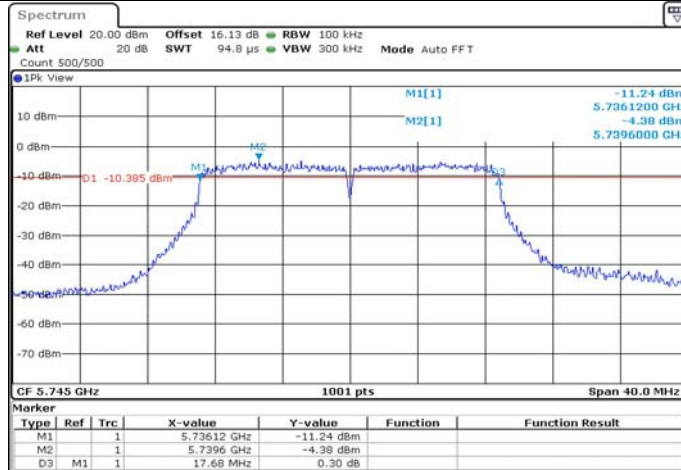
Date: 28.DEC.2020 16:32:12

11N40MIMO_Ant2_5795



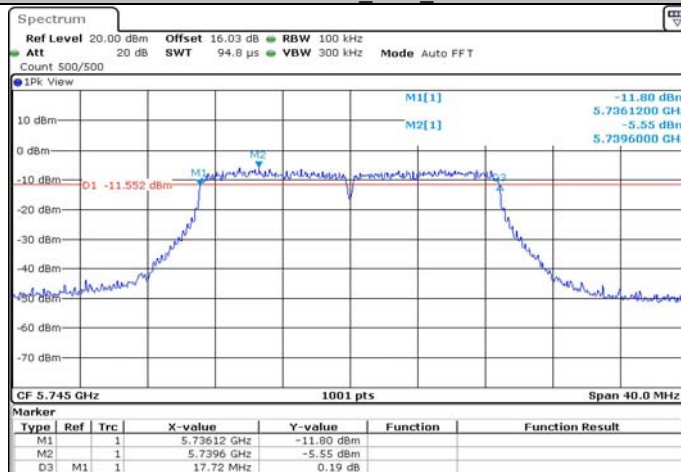
Date: 28.DEC.2020 16:34:06

11AC20MIMO_Ant1_5745



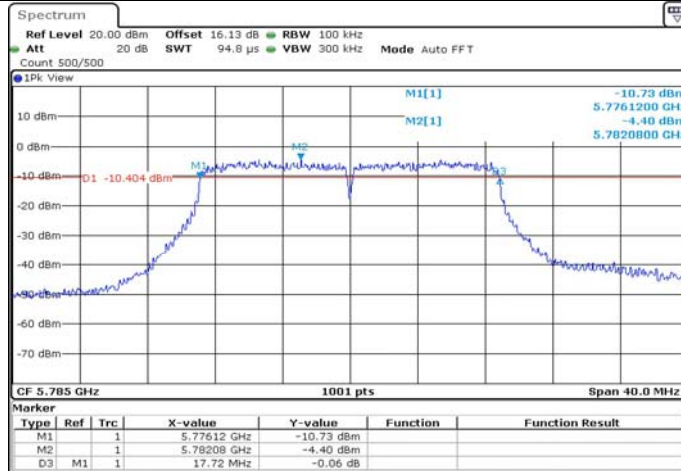
Date: 28.DEC.2020 16:54:47

11AC20MIMO_Ant2_5745



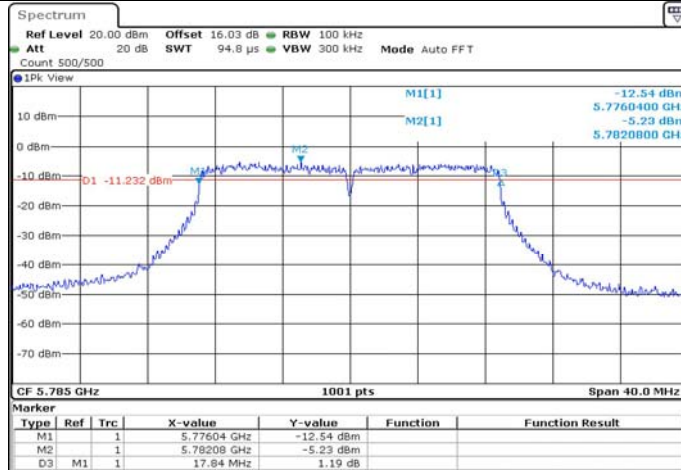
Date: 28.DEC.2020 16:55:59

11AC20MIMO Ant1 5785



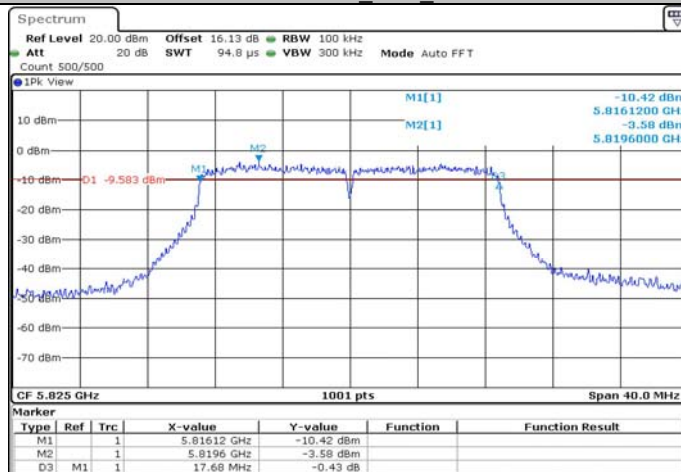
Date: 28.DEC.2020 16:59:01

11AC20MIMO Ant2 5785



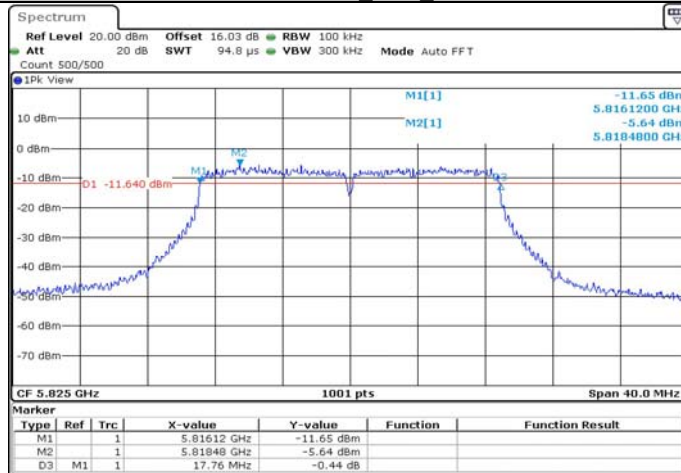
Date: 28.DEC.2020 17:00:54

11AC20MIMO Ant1 5825



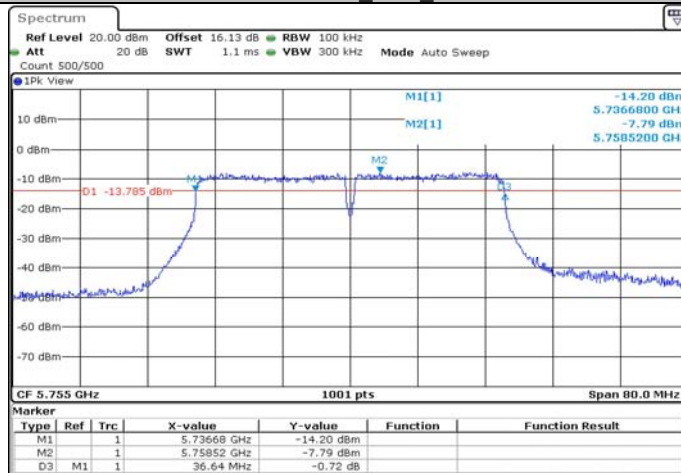
Date: 29.DEC.2020 09:13:56

11AC20MIMO Ant2_5825



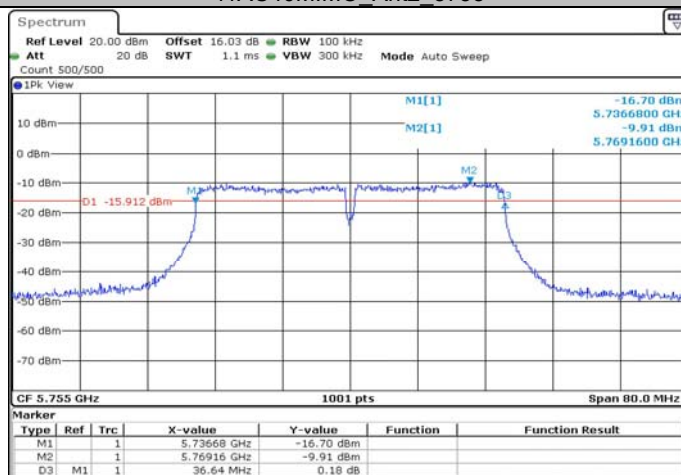
Date: 29.DEC.2020 09:15:57

11AC40MIMO Ant1_5755



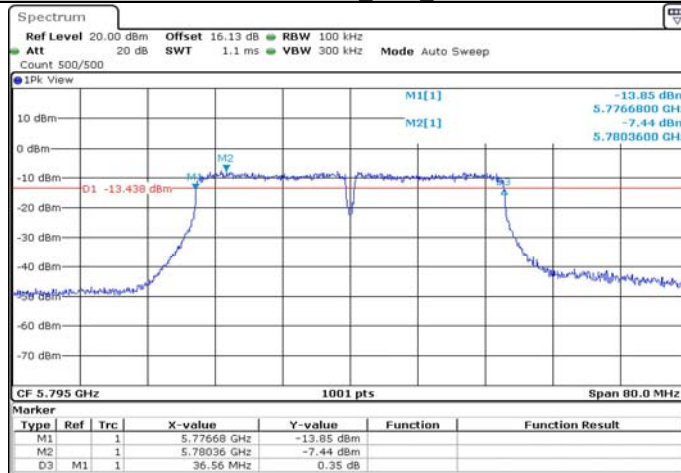
Date: 29.DEC.2020 09:10:21

11AC40MIMO Ant2_5755



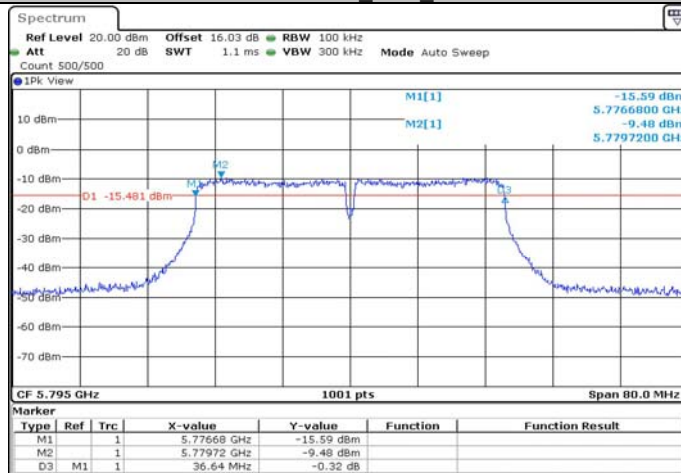
Date: 29.DEC.2020 09:31:40

11AC40MIMO Ant1 5795



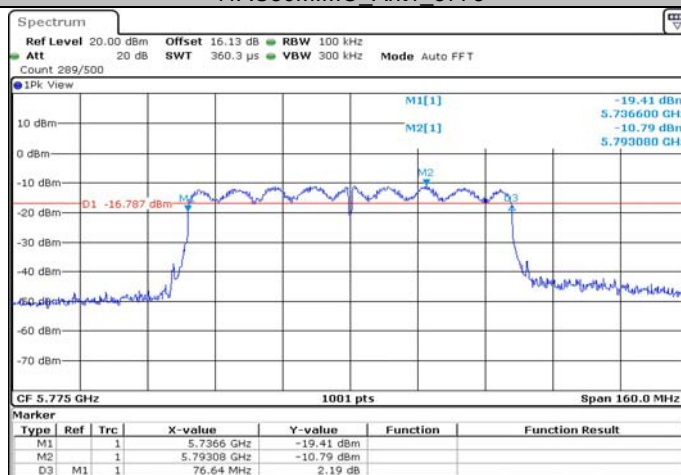
Date: 29.DEC.2020 09:34:46

11AC40MIMO Ant2 5795

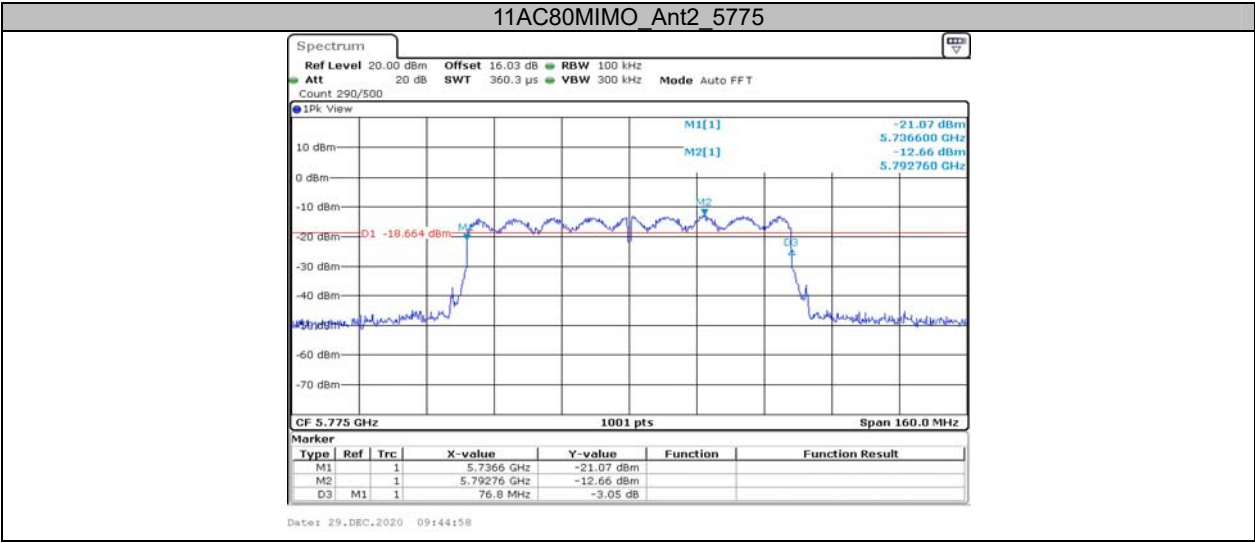


Date: 29.DEC.2020 09:36:40

11AC80MIMO Ant1 5775



Date: 29.DEC.2020 09:43:11



Appendix B: Maximum conducted output power**Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A-CDD	Ant1	5180	9.34	<=30	PASS
	Ant2	5180	8.81	<=30	PASS
	total	5180	12.1	<=30	PASS
	Ant1	5200	9.51	<=30	PASS
	Ant2	5200	9.04	<=30	PASS
	total	5200	12.3	<=30	PASS
	Ant1	5240	8.91	<=30	PASS
	Ant2	5240	8.89	<=30	PASS
	total	5240	11.9	<=30	PASS
	Ant1	5745	9.52	<=30	PASS
	Ant2	5745	8.85	<=30	PASS
	total	5745	12.2	<=30	PASS
	Ant1	5785	9.97	<=30	PASS
	Ant2	5785	9.19	<=30	PASS
	total	5785	12.6	<=30	PASS
	Ant1	5825	9.74	<=30	PASS
	Ant2	5825	9.20	<=30	PASS
	total	5825	12.5	<=30	PASS
11N20MIMO	Ant1	5180	9.18	<=30	PASS
	Ant2	5180	8.94	<=30	PASS
	total	5180	12.1	<=30	PASS
	Ant1	5200	8.91	<=30	PASS
	Ant2	5200	8.63	<=30	PASS
	total	5200	11.8	<=30	PASS
	Ant1	5240	9.30	<=30	PASS
	Ant2	5240	8.62	<=30	PASS
	total	5240	12.0	<=30	PASS
	Ant1	5745	9.43	<=30	PASS
	Ant2	5745	8.04	<=30	PASS
	total	5745	11.9	<=30	PASS
	Ant1	5785	9.83	<=30	PASS
	Ant2	5785	9.23	<=30	PASS
	total	5785	12.6	<=30	PASS
	Ant1	5825	9.32	<=30	PASS
	Ant2	5825	8.57	<=30	PASS
	total	5825	12.0	<=30	PASS
11N40MIMO	Ant1	5190	9.53	<=30	PASS
	Ant2	5190	9.26	<=30	PASS
	total	5190	12.4	<=30	PASS
	Ant1	5230	9.71	<=30	PASS
	Ant2	5230	9.10	<=30	PASS
	total	5230	12.4	<=30	PASS
	Ant1	5755	9.93	<=30	PASS
	Ant2	5755	9.55	<=30	PASS
	total	5755	12.8	<=30	PASS
	Ant1	5795	9.75	<=30	PASS
	Ant2	5795	8.66	<=30	PASS
	total	5795	12.2	<=30	PASS

11AC20MIMO	Ant1	5180	9.31	<=30	PASS
	Ant2	5180	9.05	<=30	PASS
	total	5180	12.2	<=30	PASS
	Ant1	5200	9.56	<=30	PASS
	Ant2	5200	9.23	<=30	PASS
	total	5200	12.4	<=30	PASS
	Ant1	5240	9.54	<=30	PASS
	Ant2	5240	8.94	<=30	PASS
	total	5240	12.3	<=30	PASS
	Ant1	5745	9.39	<=30	PASS
	Ant2	5745	8.74	<=30	PASS
	total	5745	12.1	<=30	PASS
	Ant1	5785	9.97	<=30	PASS
	Ant2	5785	9.63	<=30	PASS
	total	5785	12.8	<=30	PASS
11AC40MIMO	Ant1	5825	9.90	<=30	PASS
	Ant2	5825	8.78	<=30	PASS
	total	5825	12.4	<=30	PASS
	Ant1	5190	8.27	<=30	PASS
	Ant2	5190	7.13	<=30	PASS
	total	5190	10.7	<=30	PASS
	Ant1	5230	8.89	<=30	PASS
	Ant2	5230	7.85	<=30	PASS
	total	5230	11.4	<=30	PASS
	Ant1	5755	9.95	<=30	PASS
	Ant2	5755	8.11	<=30	PASS
	total	5755	12.1	<=30	PASS
11AC80MIMO	Ant1	5795	9.81	<=30	PASS
	Ant2	5795	8.46	<=30	PASS
	total	5795	12.2	<=30	PASS
	Ant1	5210	8.91	<=30	PASS
	Ant2	5210	8.79	<=30	PASS
	total	5210	11.9	<=30	PASS
	Ant1	5775	9.41	<=30	PASS
	Ant2	5775	8.45	<=30	PASS
	total	5775	12.00	<=30	PASS

Note: EUT is AP.

Directional gain = G_{ANT} + Array Gain

G_{ANT} =5dBi;

For Power measurement, Array Gain=0dB for $N_{ANT} \leq 4$;

So Directional gain=5dBi<6dBi

Appendix C: Maximum power spectral density**Test Result**

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A-CDD	Ant1	5180	2.18	<=15	PASS
	Ant2	5180	2.28	<=15	PASS
	total	5180	5.24	<=15	PASS
	Ant1	5200	2.01	<=15	PASS
	Ant2	5200	2.17	<=15	PASS
	total	5200	5.10	<=15	PASS
	Ant1	5240	1.9	<=15	PASS
	Ant2	5240	2.55	<=15	PASS
	total	5240	5.25	<=15	PASS
	Ant1	5745	1.45	<=28	PASS
	Ant2	5745	0.5	<=28	PASS
	total	5745	4.01	<=28	PASS
	Ant1	5785	1.72	<=28	PASS
	Ant2	5785	1.23	<=28	PASS
	total	5785	4.49	<=28	PASS
	Ant1	5825	1.84	<=28	PASS
	Ant2	5825	1.5	<=28	PASS
	total	5825	4.68	<=28	PASS
11N20MIMO	Ant1	5180	2.2	<=15	PASS
	Ant2	5180	2.07	<=15	PASS
	total	5180	5.15	<=15	PASS
	Ant1	5200	1.53	<=15	PASS
	Ant2	5200	1.4	<=15	PASS
	total	5200	4.48	<=15	PASS
	Ant1	5240	2.44	<=15	PASS
	Ant2	5240	1.97	<=15	PASS
	total	5240	5.22	<=15	PASS
	Ant1	5745	4.22	<=28	PASS
	Ant2	5745	4.48	<=28	PASS
	total	5745	7.36	<=28	PASS
	Ant1	5785	1.86	<=28	PASS
	Ant2	5785	0.73	<=28	PASS
	total	5785	4.34	<=28	PASS
	Ant1	5825	1.58	<=28	PASS
	Ant2	5825	0.02	<=28	PASS
	total	5825	3.88	<=28	PASS
11N40MIMO	Ant1	5190	-0.76	<=15	PASS
	Ant2	5190	-0.85	<=15	PASS
	total	5190	2.21	<=15	PASS
	Ant1	5230	-0.65	<=15	PASS
	Ant2	5230	-1.18	<=15	PASS
	total	5230	2.10	<=15	PASS
	Ant1	5755	-1.62	<=28	PASS
	Ant2	5755	-2.2	<=28	PASS
	total	5755	1.11	<=28	PASS
	Ant1	5795	-2.02	<=28	PASS
	Ant2	5795	-2.94	<=28	PASS
	total	5795	0.55	<=28	PASS

11AC20MIMO	Ant1	5180	2.56	<=15	PASS
	Ant2	5180	2.46	<=15	PASS
	total	5180	5.52	<=15	PASS
	Ant1	5200	2.44	<=15	PASS
	Ant2	5200	2.08	<=15	PASS
	total	5200	5.27	<=15	PASS
	Ant1	5240	2.79	<=15	PASS
	Ant2	5240	2.35	<=15	PASS
	total	5240	5.59	<=15	PASS
	Ant1	5745	1.58	<=28	PASS
	Ant2	5745	0.81	<=28	PASS
	total	5745	4.22	<=28	PASS
	Ant1	5785	2.17	<=28	PASS
	Ant2	5785	0.95	<=28	PASS
	total	5785	4.61	<=28	PASS
	Ant1	5825	1.91	<=28	PASS
	Ant2	5825	0.81	<=28	PASS
	total	5825	4.41	<=28	PASS
11AC40MIMO	Ant1	5190	-1.4	<=15	PASS
	Ant2	5190	-2.94	<=15	PASS
	total	5190	0.91	<=15	PASS
	Ant1	5230	-1.42	<=15	PASS
	Ant2	5230	-2.45	<=15	PASS
	total	5230	1.11	<=15	PASS
	Ant1	5755	-1.68	<=28	PASS
	Ant2	5755	-3.43	<=28	PASS
	total	5755	0.54	<=28	PASS
	Ant1	5795	-1.61	<=28	PASS
	Ant2	5795	-3.24	<=28	PASS
	total	5795	0.66	<=28	PASS
11AC80MIMO	Ant1	5210	-3.27	<=15	PASS
	Ant2	5210	-3.52	<=15	PASS
	total	5210	-0.38	<=15	PASS
	Ant1	5775	-4.62	<=28	PASS
	Ant2	5775	-5.42	<=28	PASS
	total	5775	-1.99	<=28	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 is compensated in the graph.

3. Directional gain = G_{ANT} + Array Gain

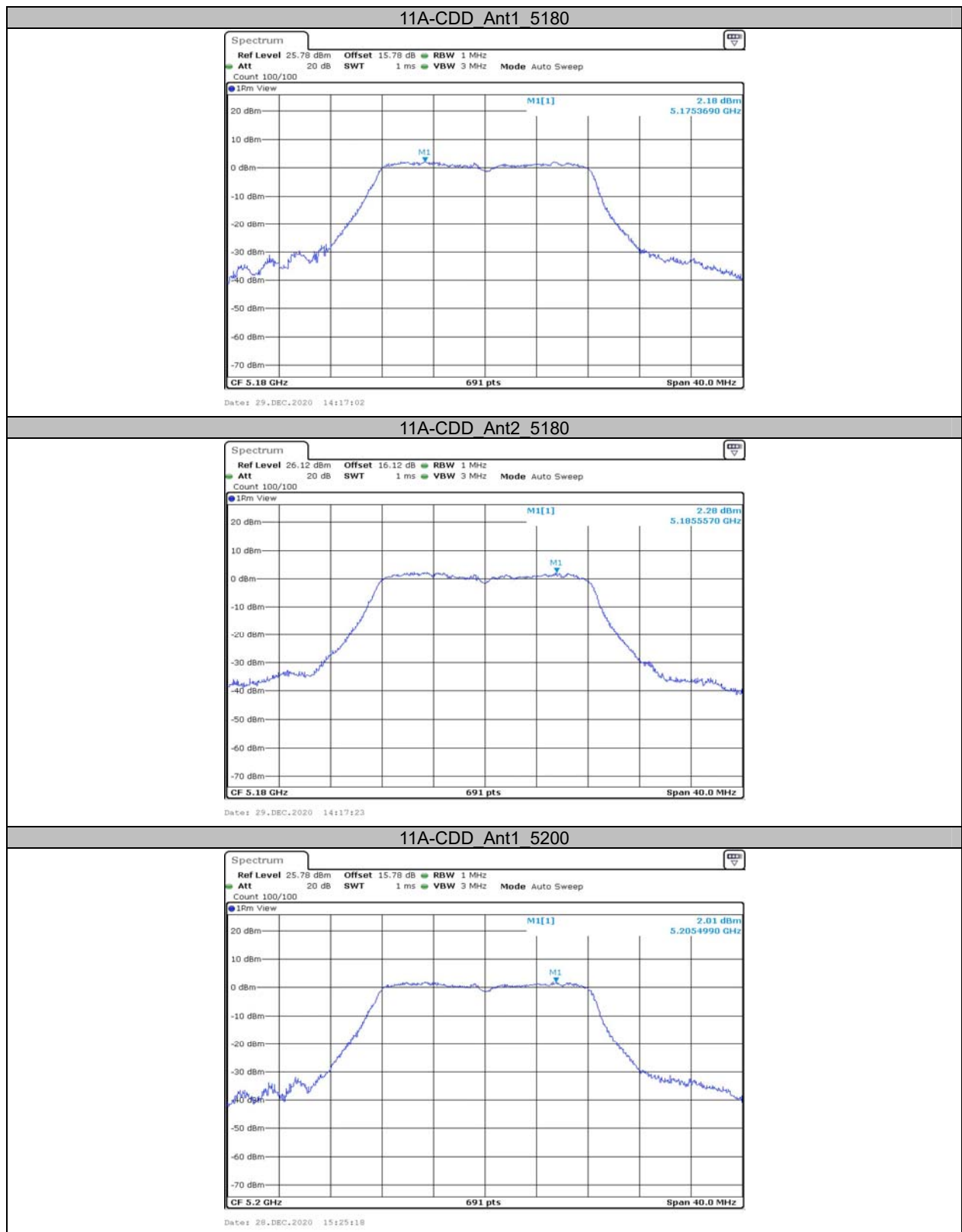
G_{ANT} =5dBi;

For power spectral density (PSD) measurement, Array Gain= Array Gain = $10 \cdot \log(N_{ANT})$ dB.;

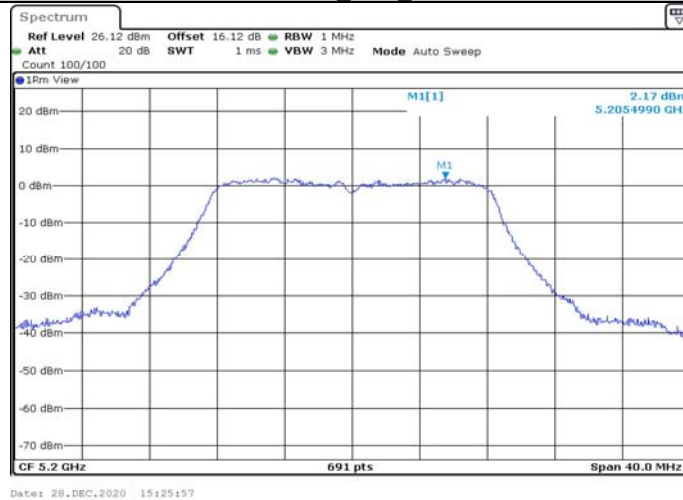
Directional gain=5dBi+ $10 \cdot \log(2)$ =8dBi, greater than 6dBi.

So the limit should be reduced by 2dB

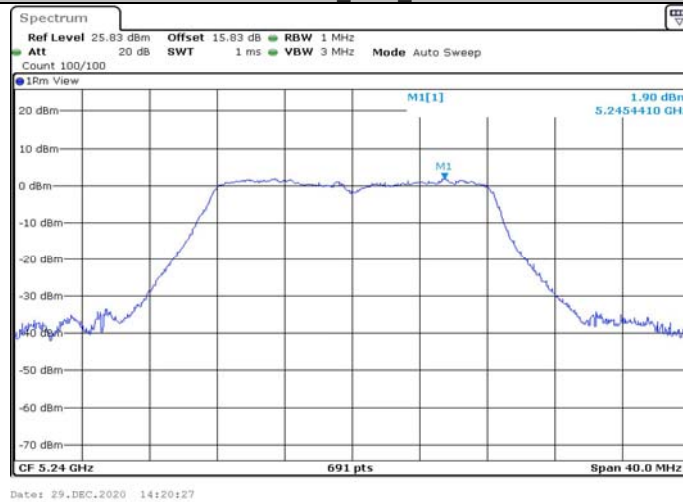
Test Graphs



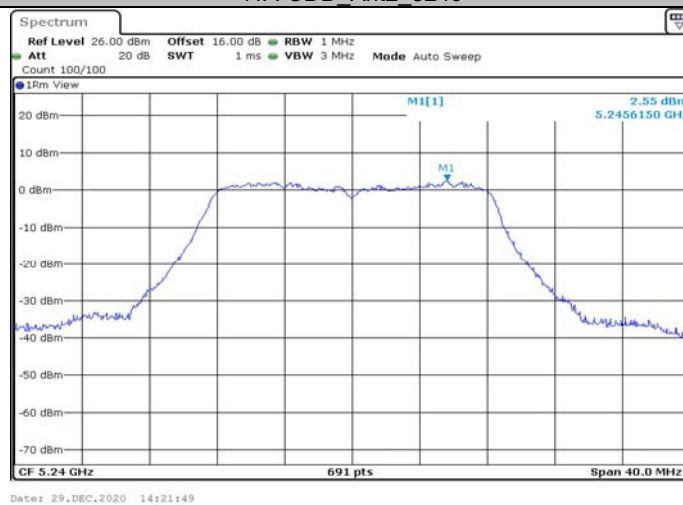
11A-CDD_Ant2_5200



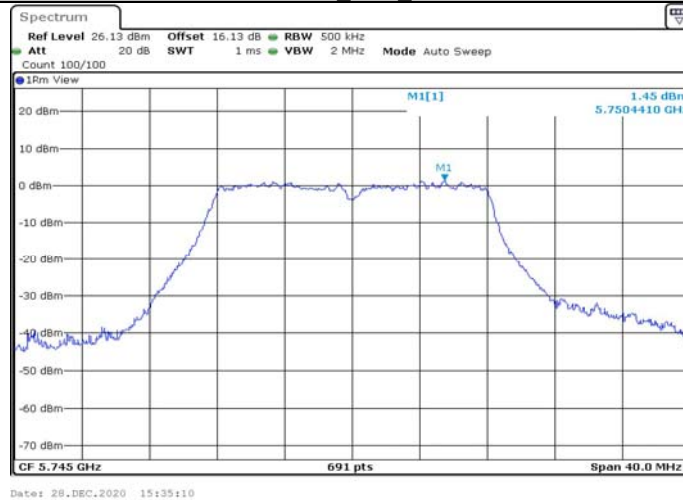
11A-CDD_Ant1_5240



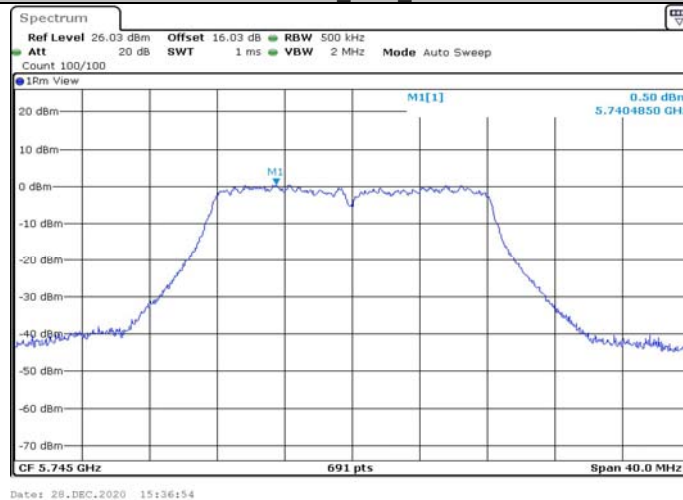
11A-CDD_Ant2_5240



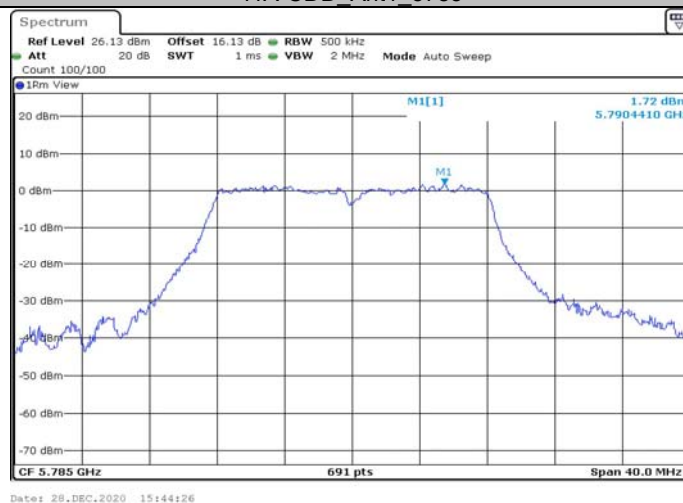
11A-CDD_Ant1_5745



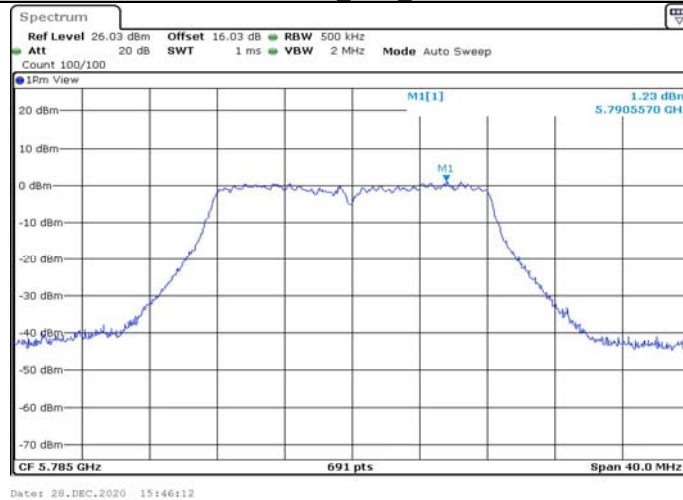
11A-CDD_Ant2_5745



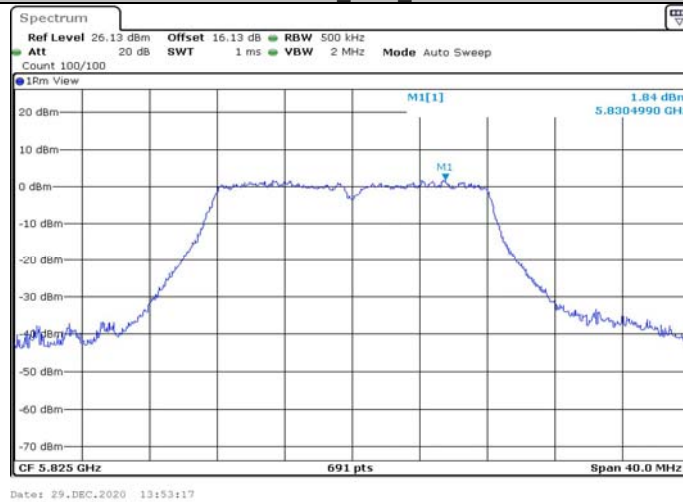
11A-CDD_Ant1_5785



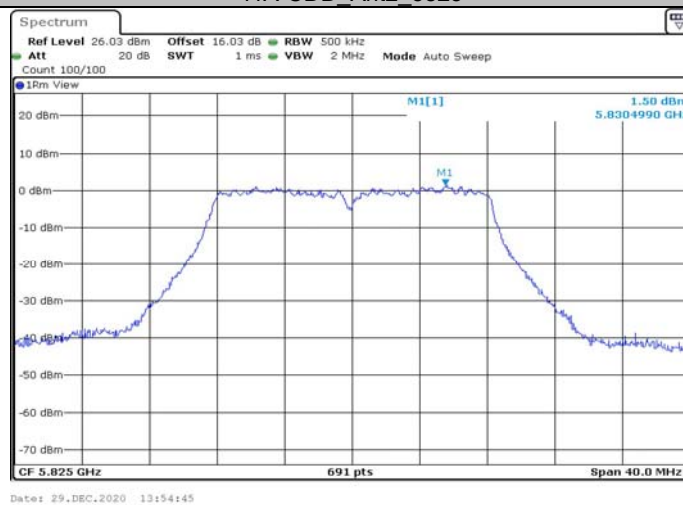
11A-CDD_Ant2_5785

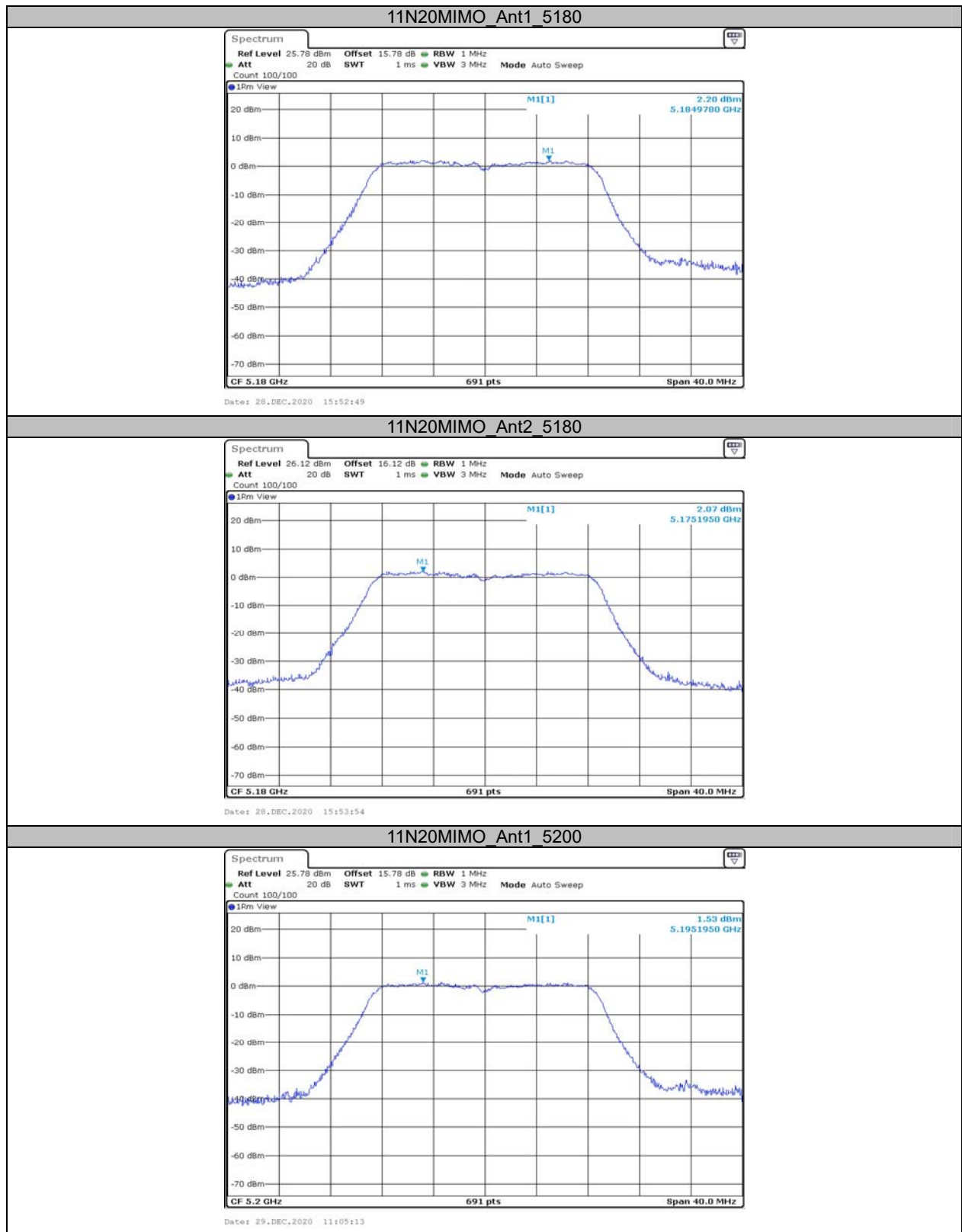


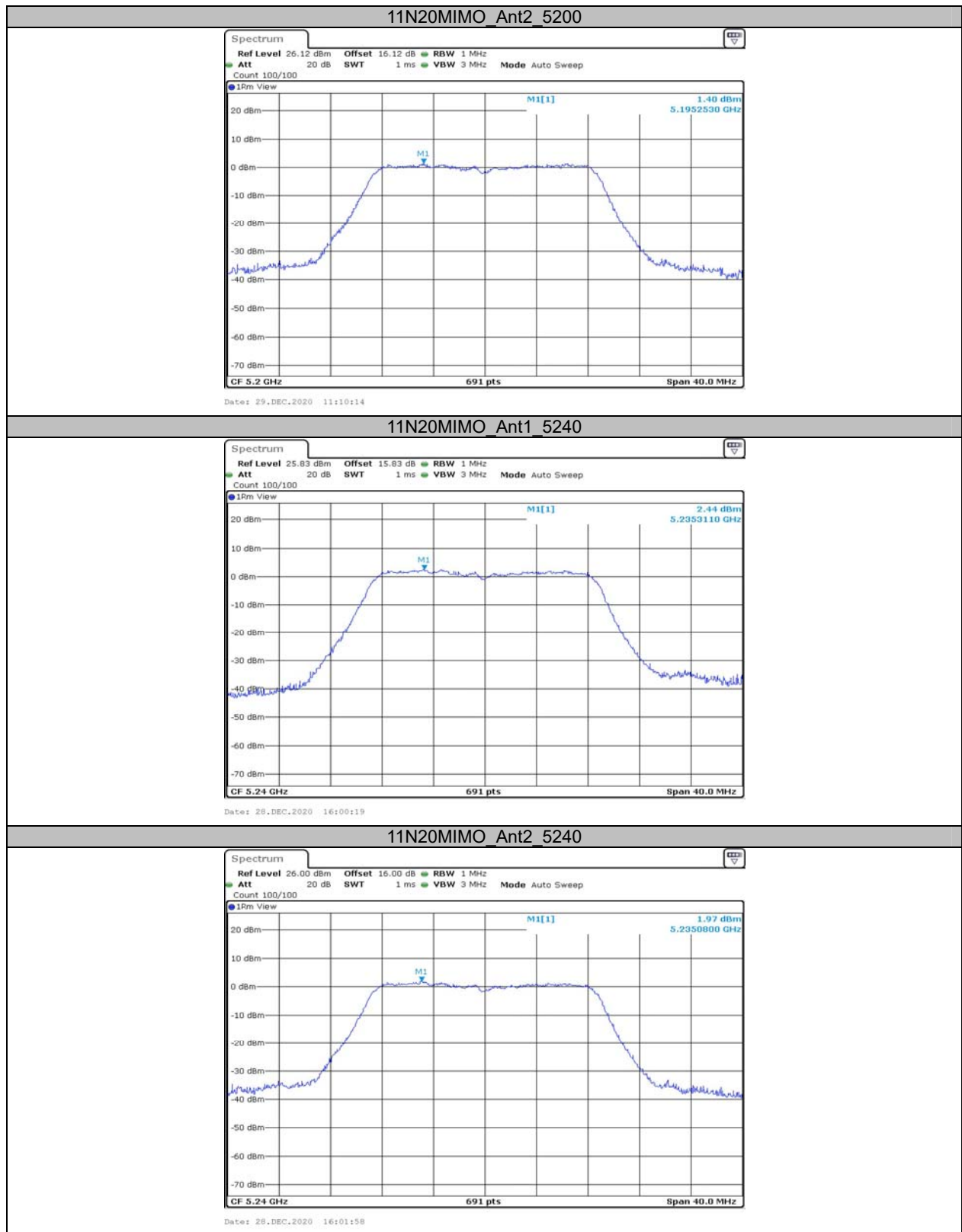
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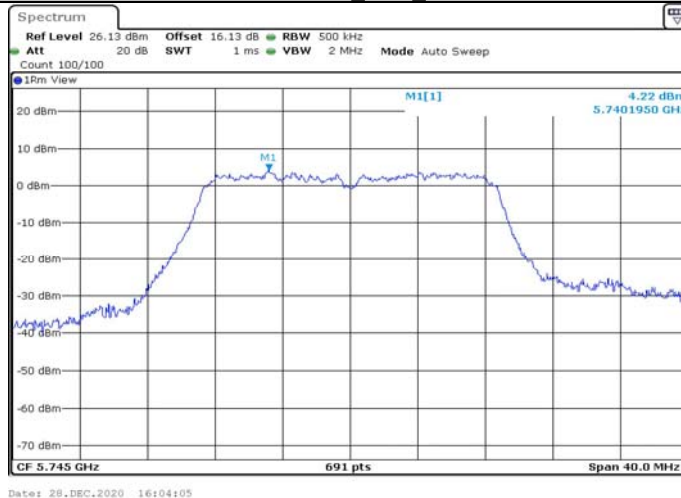
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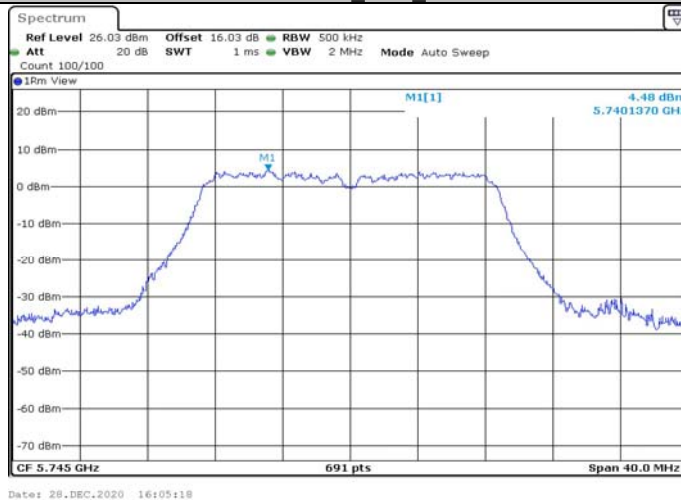




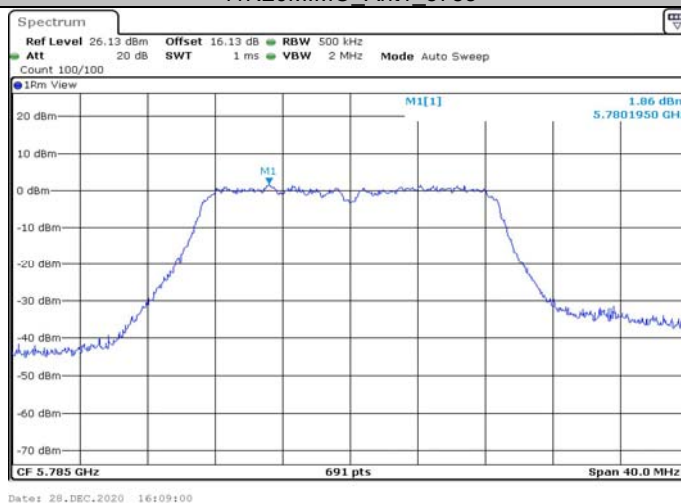
11N20MIMO_Ant1_5745

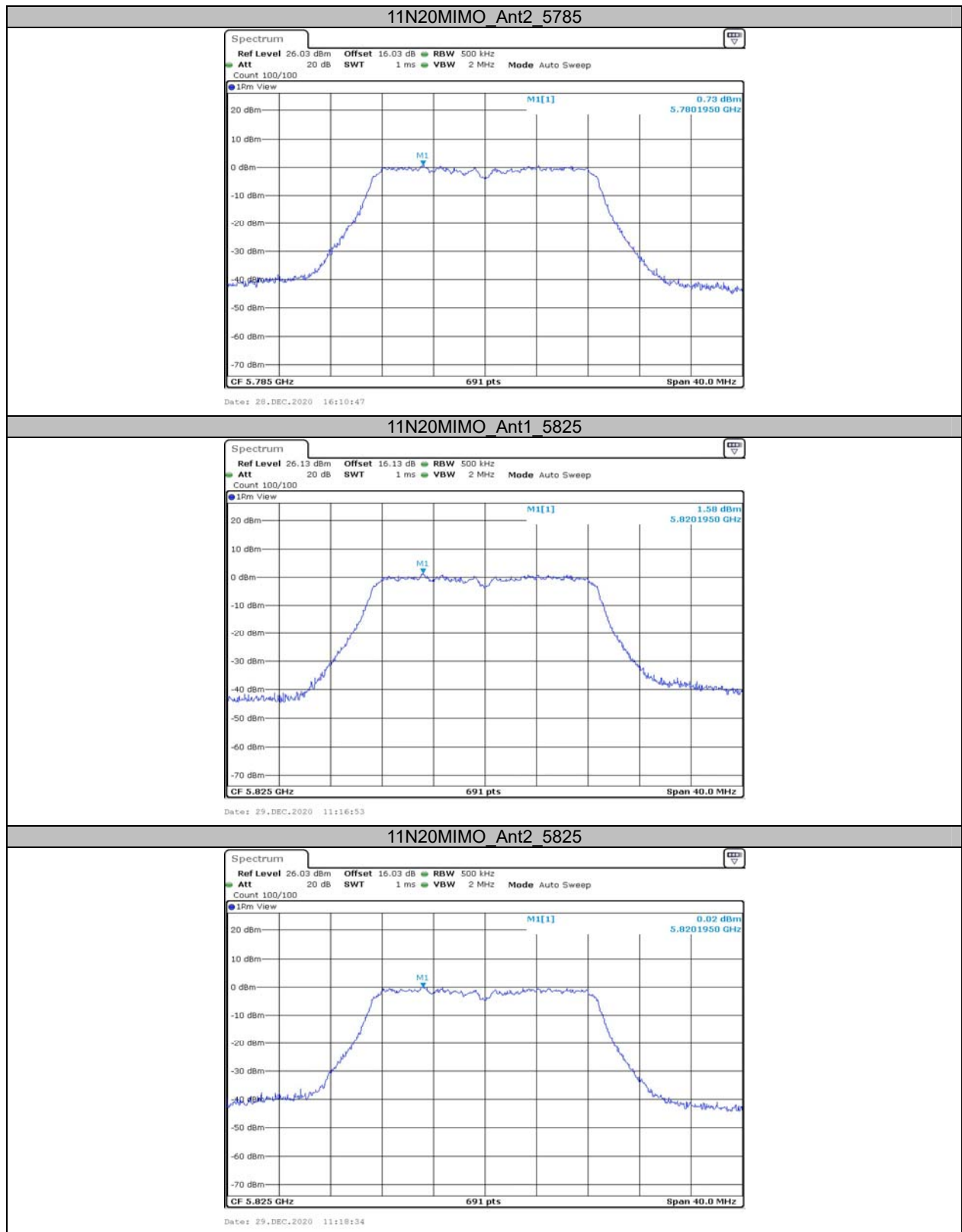


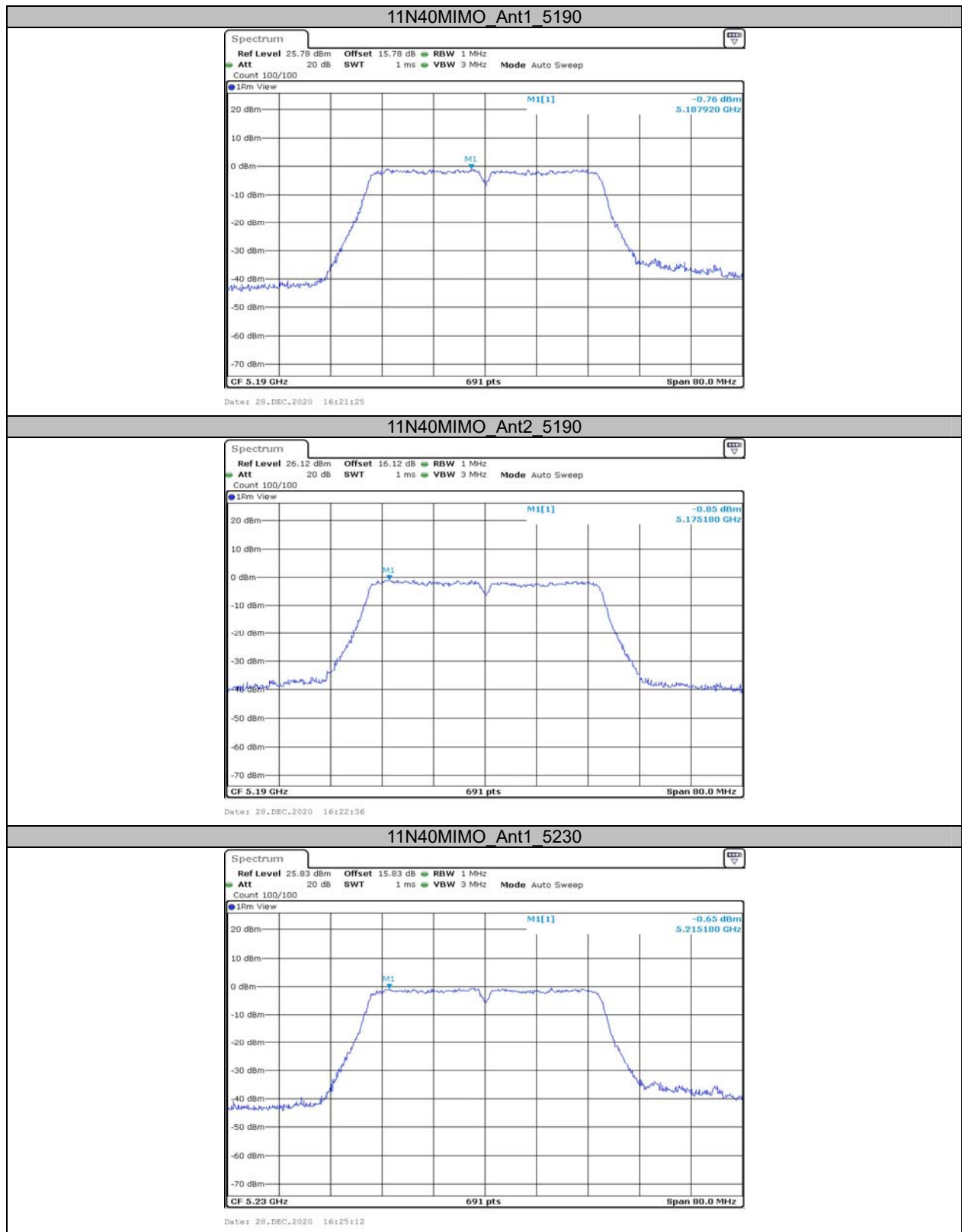
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11N20MIMO_Ant1_5785



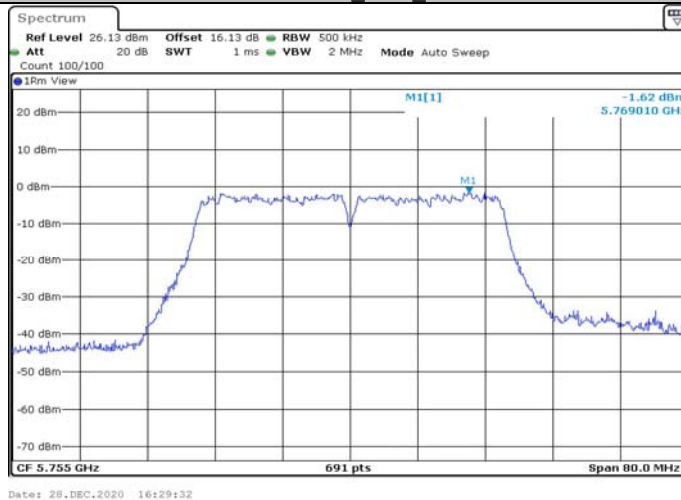




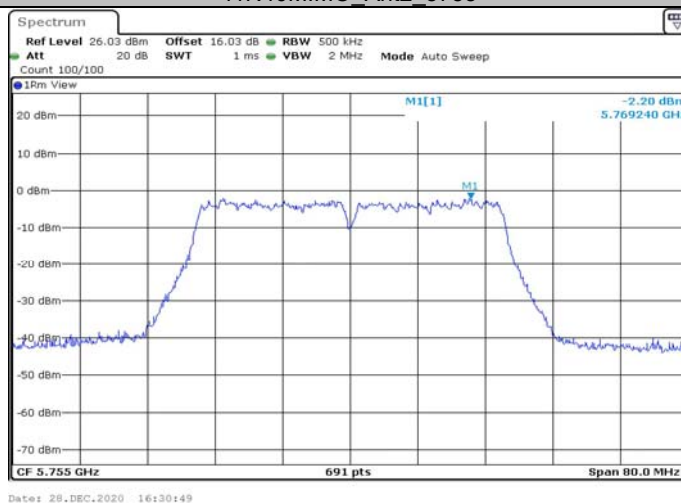
11N40MIMO_Ant2_5230

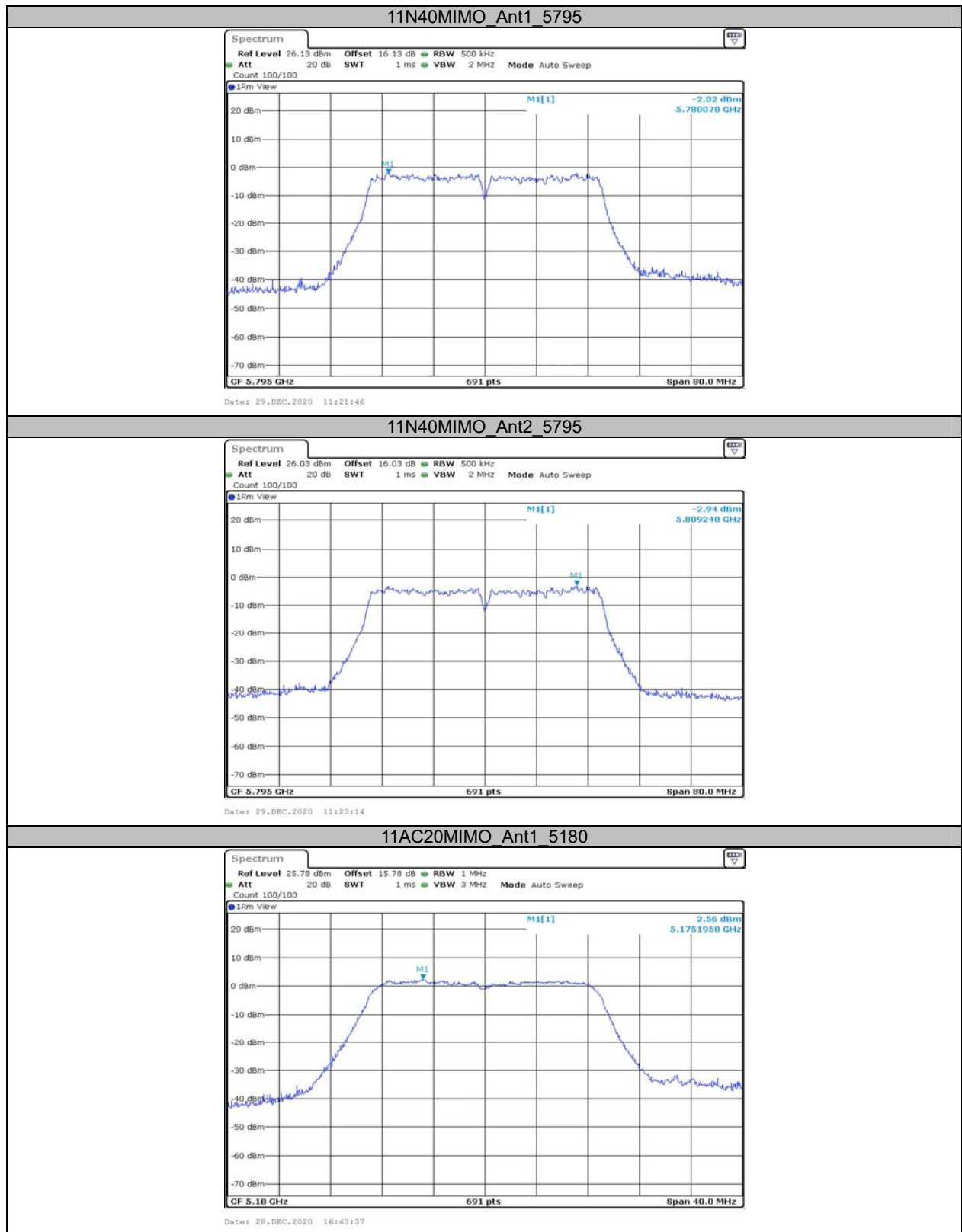


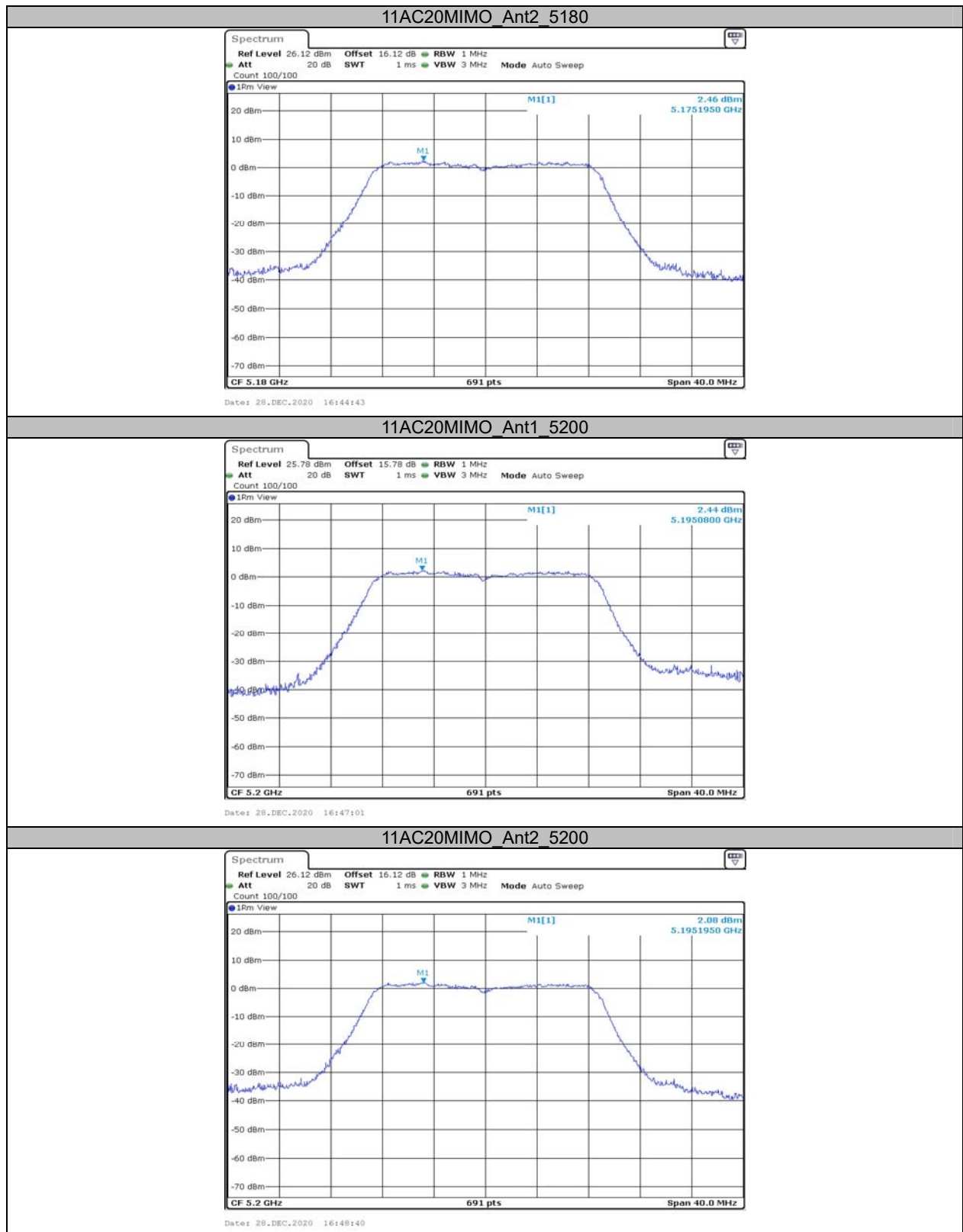
11N40MIMO_Ant1_5755



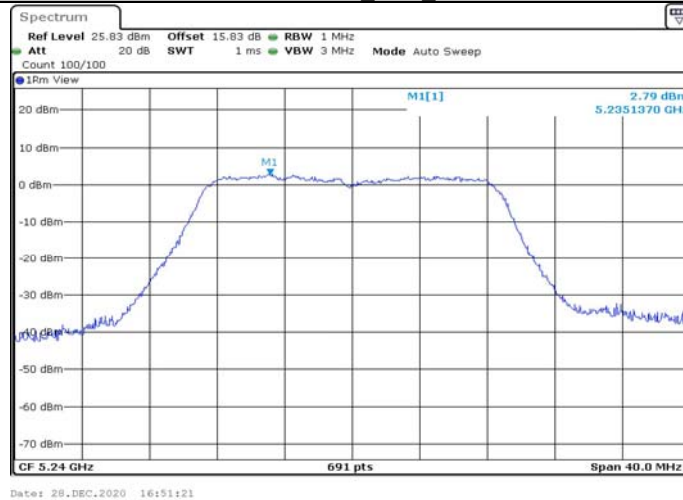
11N40MIMO_Ant2_5755



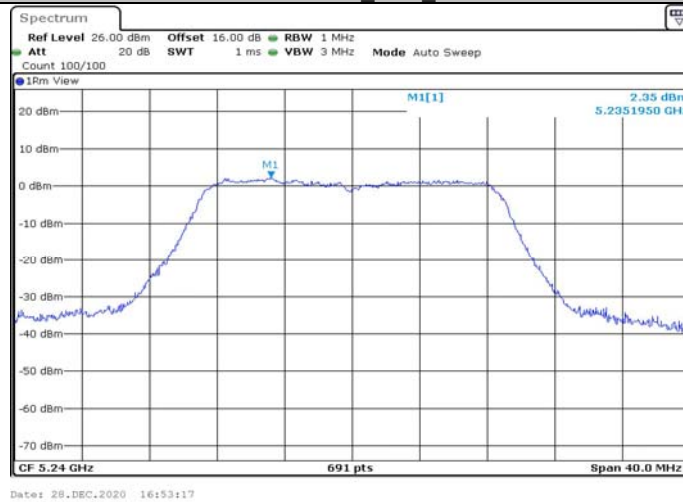




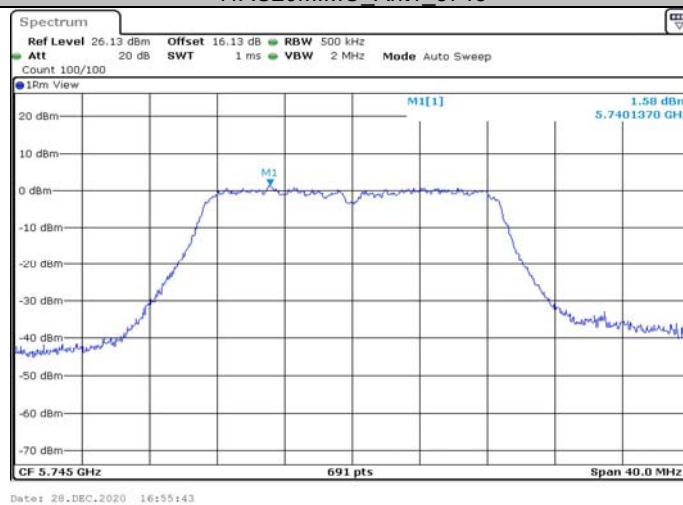
11AC20MIMO Ant1_5240



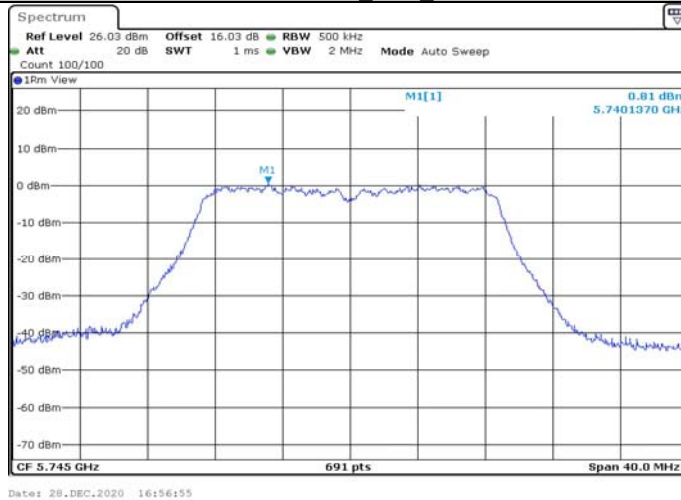
11AC20MIMO Ant2_5240



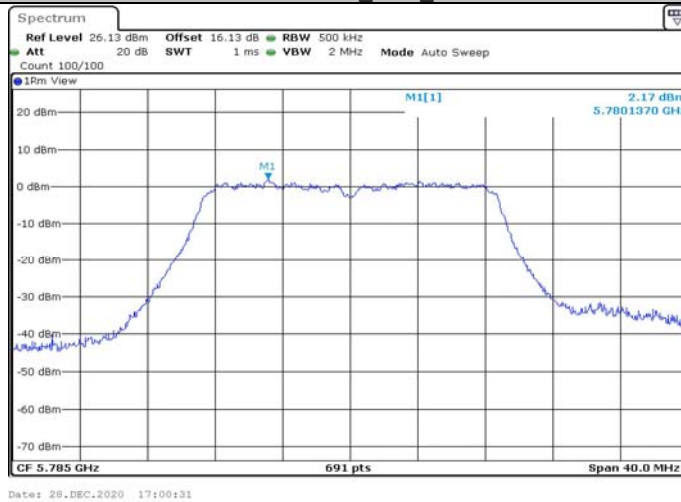
11AC20MIMO Ant1_5745



11AC20MIMO Ant2_5745



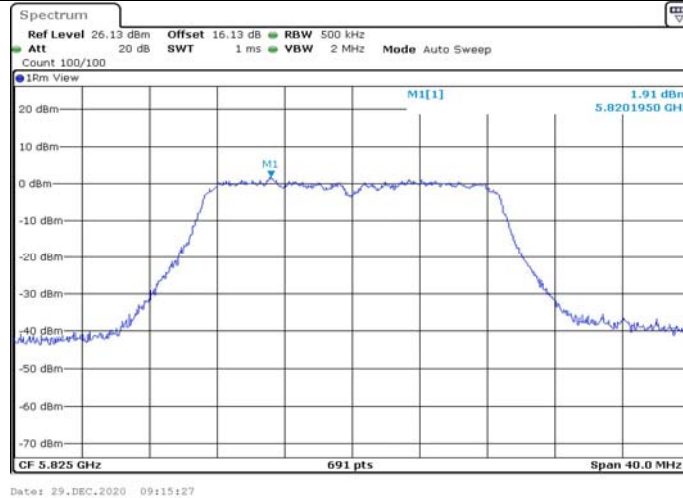
11AC20MIMO Ant1_5785



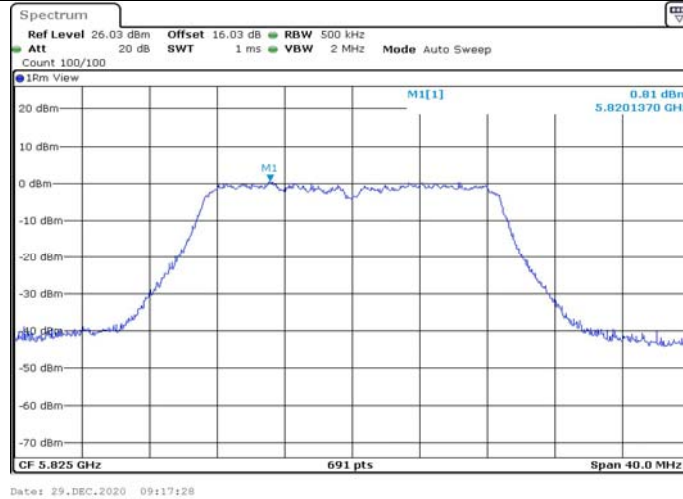
11AC20MIMO Ant2_5785



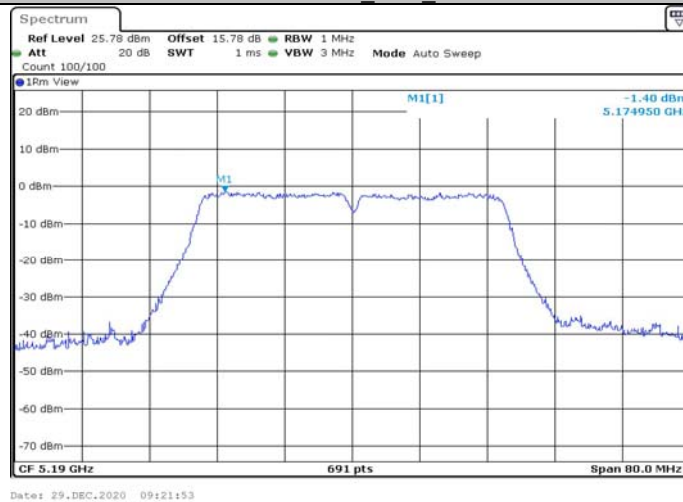
11AC20MIMO Ant1_5825



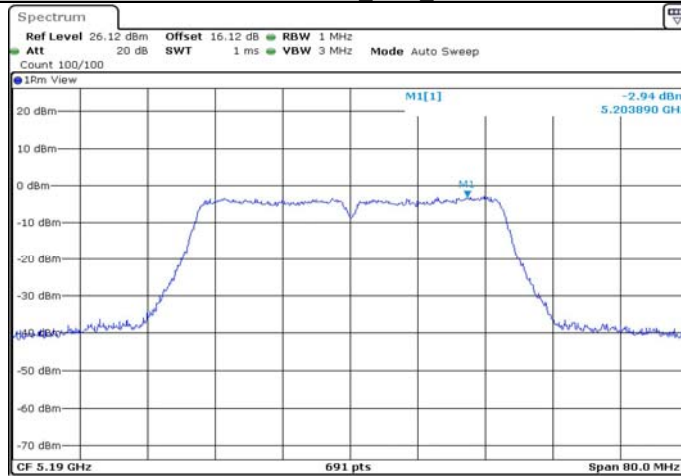
11AC20MIMO Ant2_5825



11AC40MIMO Ant1_5190

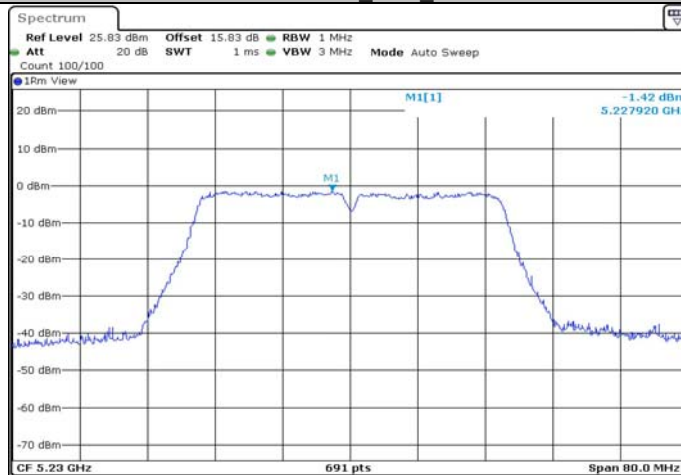


11AC40MIMO Ant2 5190



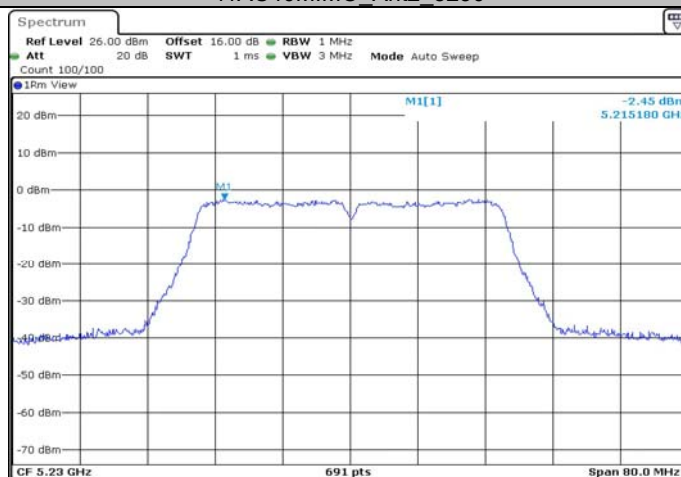
Date: 29, DEC, 2020 09:24:09

11AC40MIMO Ant1 5230



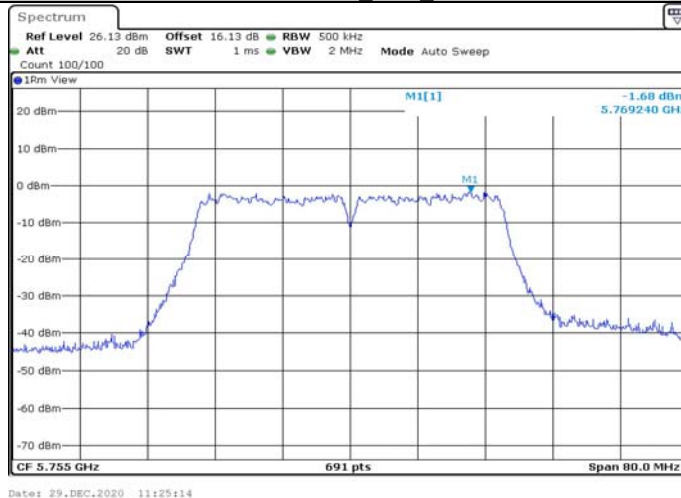
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11AC40MIMO Ant2 5230

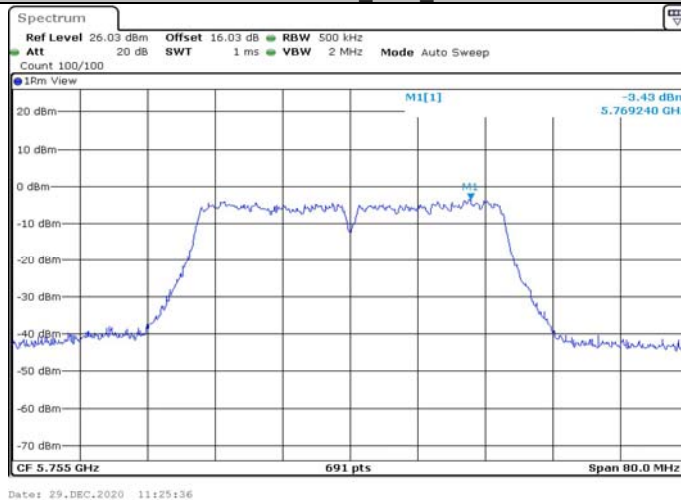


Date: 29, DEC, 2020 09:28:43

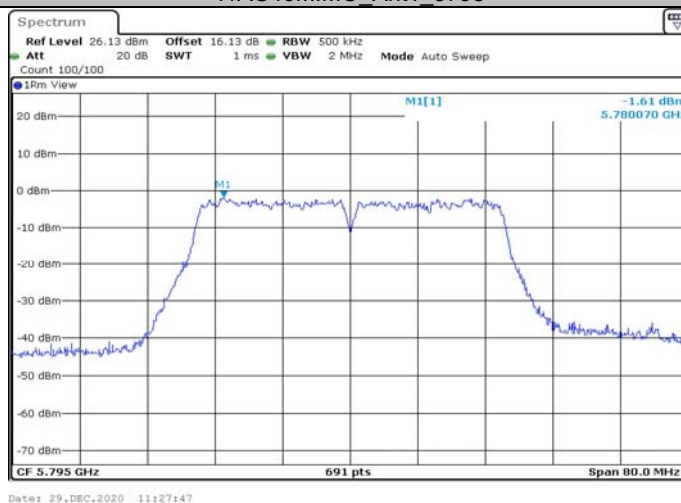
11AC40MIMO Ant1_5755



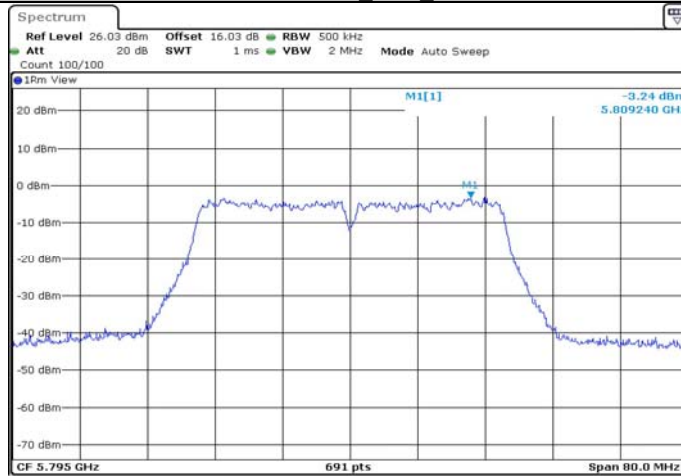
11AC40MIMO Ant2_5755



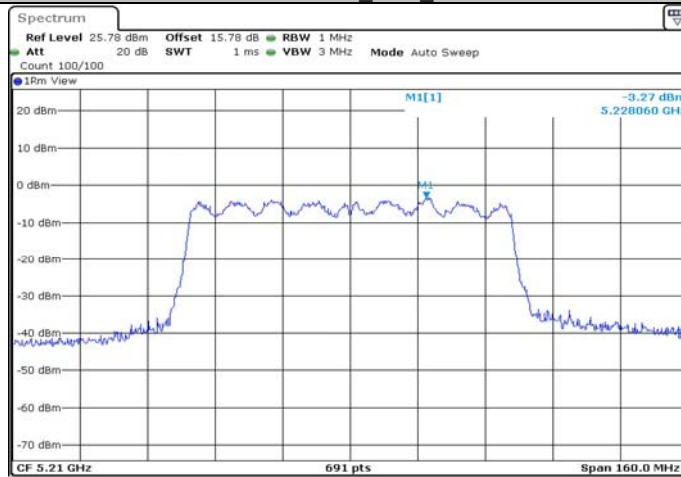
11AC40MIMO Ant1_5795



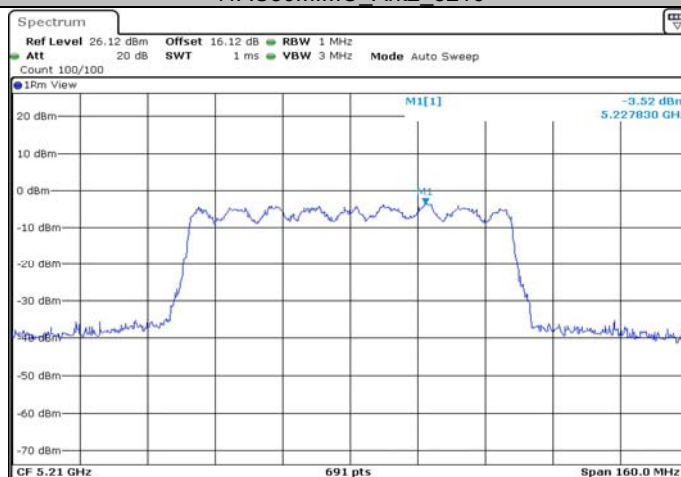
11AC40MIMO Ant2_5795

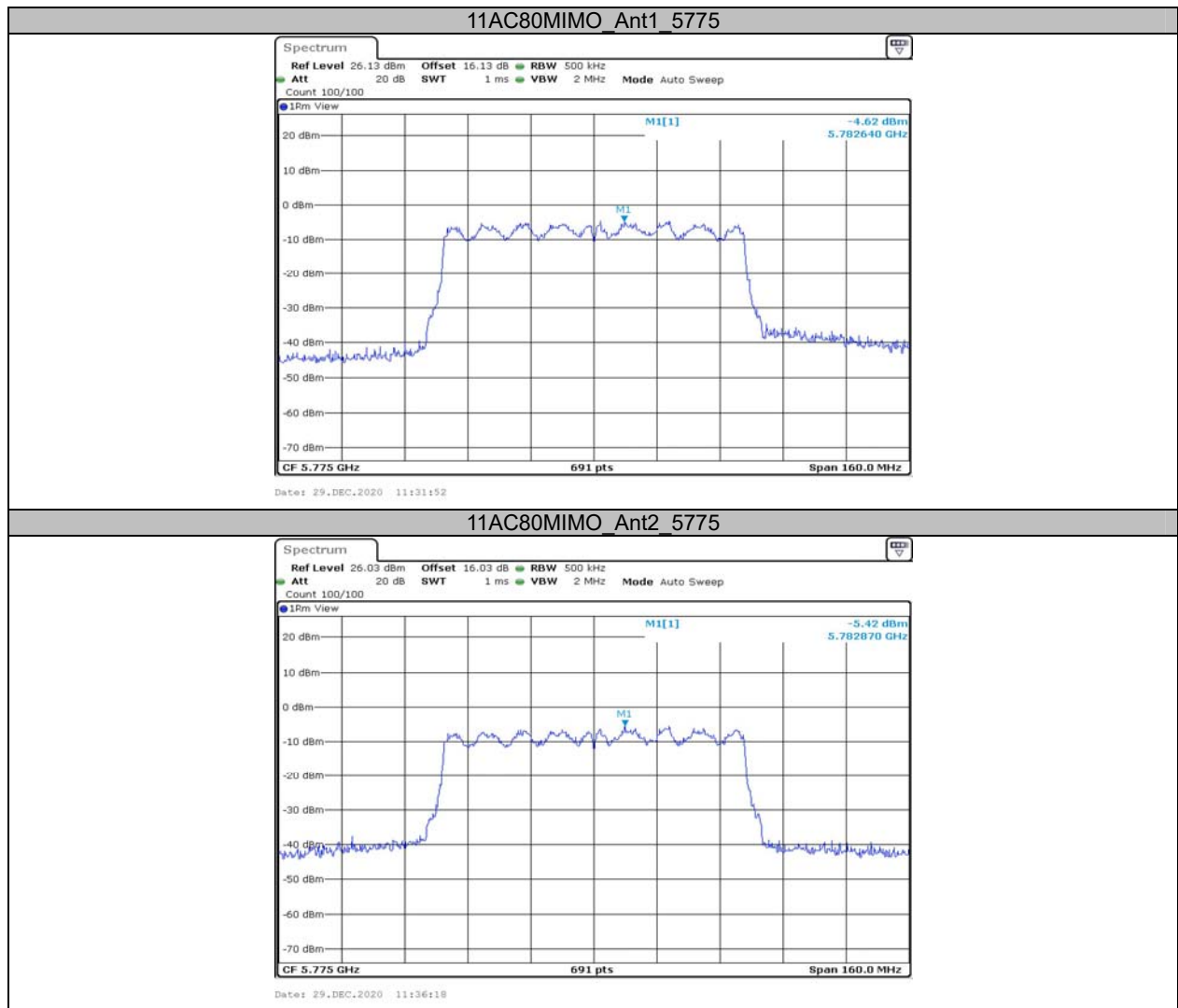


11AC80MIMO Ant1_5210



11AC80MIMO Ant2_5210

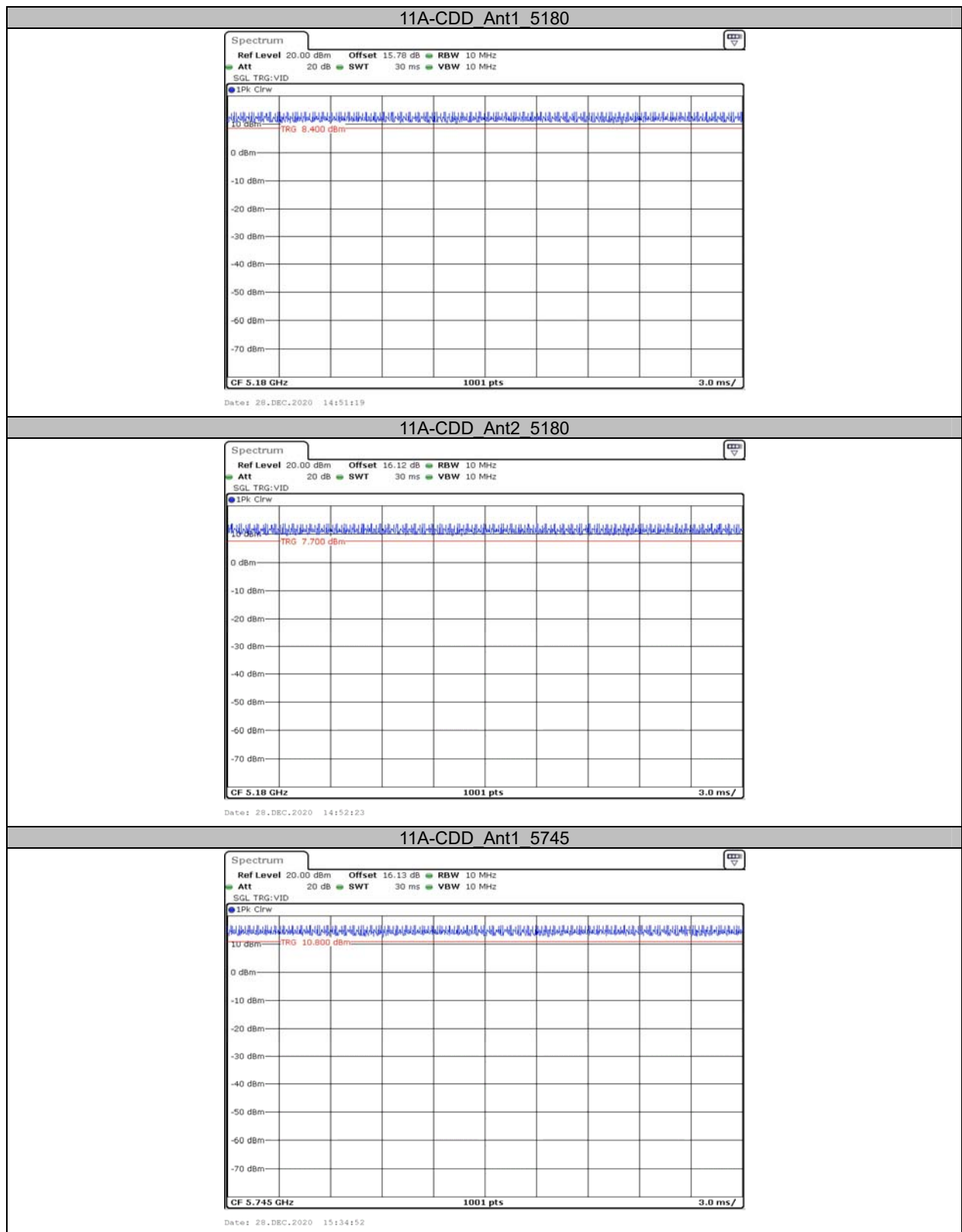




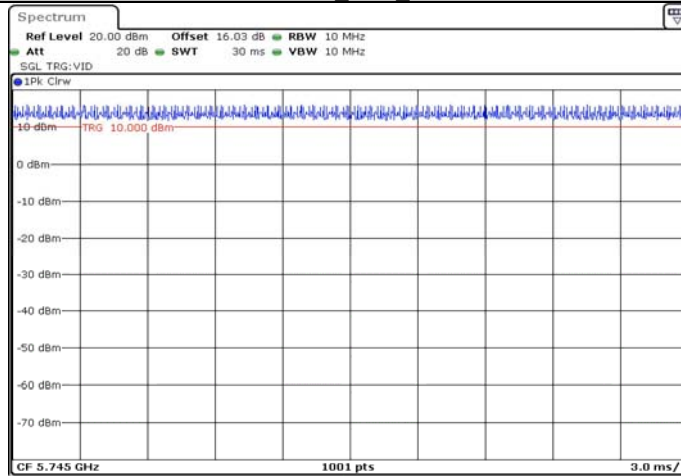
Appendix D: Duty Cycle**Test Result**

TestMode	Antenna	Channel	TransmissionDuration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A-CDD	Ant1	5180	30.00	30.00	100.00
	Ant2	5180	30.00	30.00	100.00
	Ant1	5745	30.00	30.00	100.00
	Ant2	5745	30.00	30.00	100.00
11N20MIMO	Ant1	5180	30.00	30.00	100.00
	Ant2	5180	30.00	30.00	100.00
	Ant1	5745	30.00	30.00	100.00
	Ant2	5745	30.00	30.00	100.00
11N40MIMO	Ant1	5190	30.00	30.00	100.00
	Ant2	5190	30.00	30.00	100.00
	Ant1	5755	30.00	30.00	100.00
	Ant2	5755	30.00	30.00	100.00
11AC20MIMO	Ant1	5180	30.00	30.00	100.00
	Ant2	5180	30.00	30.00	100.00
	Ant1	5745	30.00	30.00	100.00
	Ant2	5745	30.00	30.00	100.00
11AC40MIMO	Ant1	5190	30.00	30.00	100.00
	Ant2	5190	30.00	30.00	100.00
	Ant1	5755	30.00	30.00	100.00
	Ant2	5755	30.00	30.00	100.00
11AC80MIMO	Ant1	5210	30.00	30.00	100.00
	Ant2	5210	30.00	30.00	100.00

Test Graphs

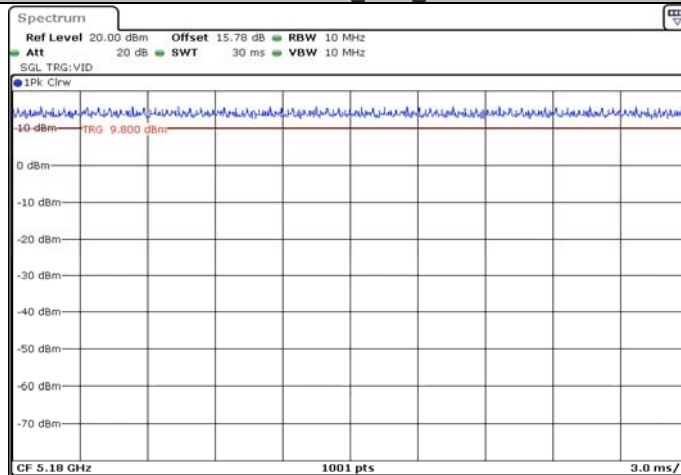


11A-CDD_Ant2_5745



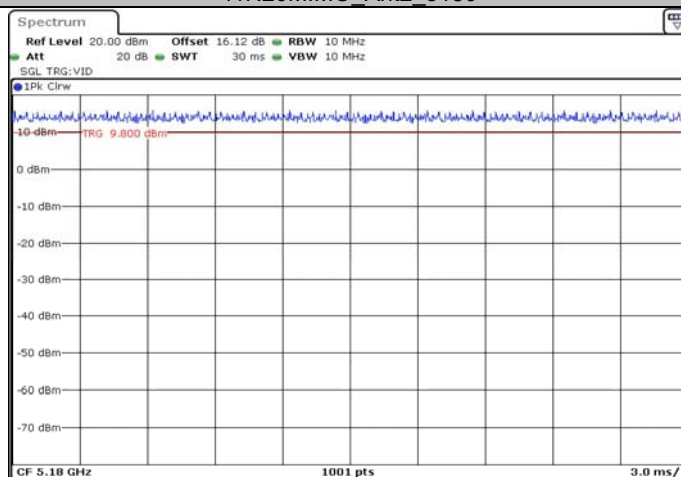
Date: 28.DEC.2020 15:36:35

11N20MIMO_Ant1_5180



Date: 28.DEC.2020 15:52:31

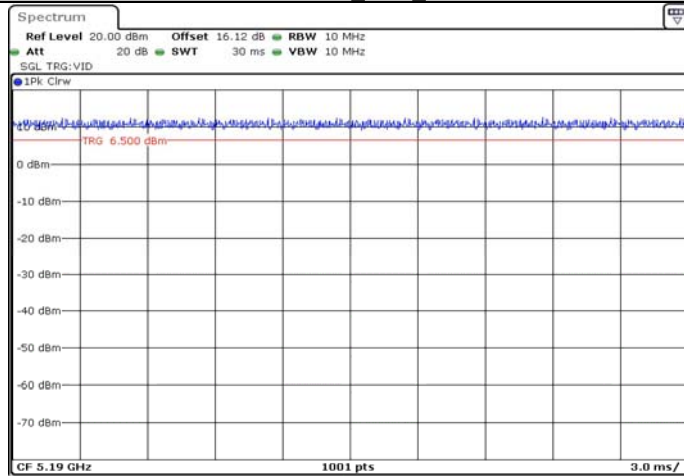
11N20MIMO_Ant2_5180



Date: 28.DEC.2020 15:53:35

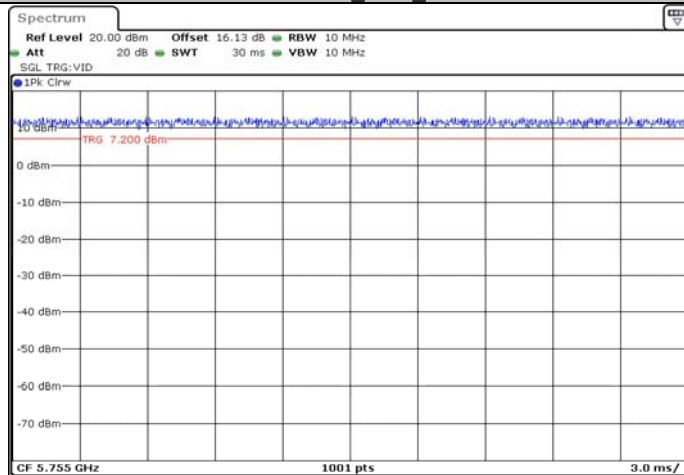


11N40MIMO_Ant2_5190



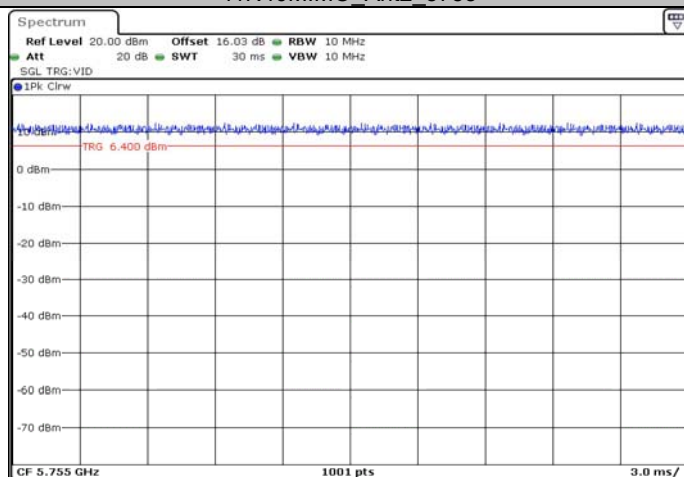
Date: 28.DEC.2020 16:22:17

11N40MIMO_Ant1_5755



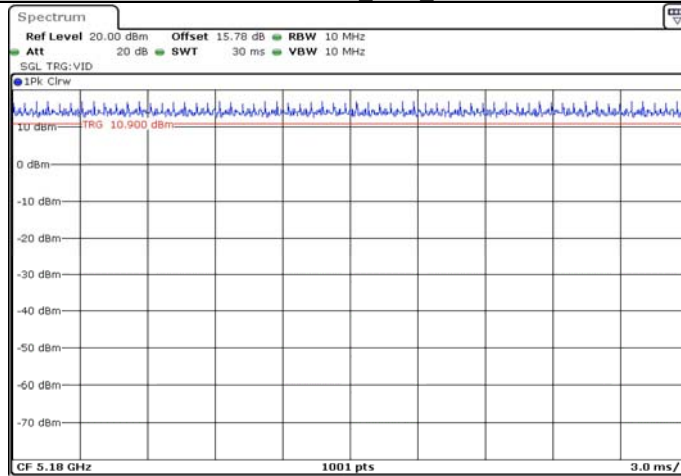
Date: 28.DEC.2020 16:29:13

11N40MIMO_Ant2_5755



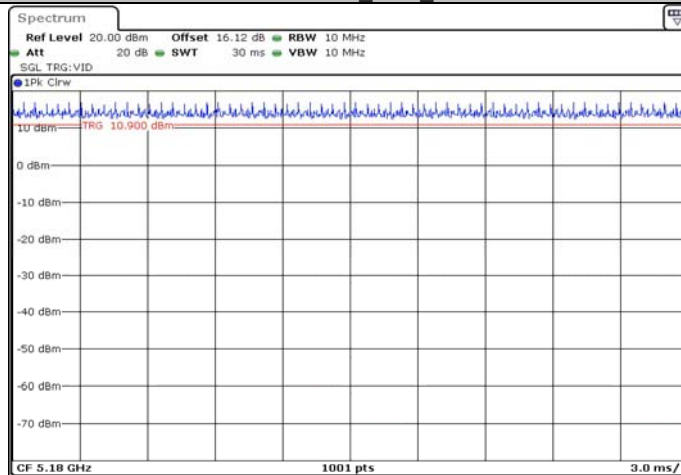
Date: 28.DEC.2020 16:30:30

11AC20MIMO_Ant1_5180



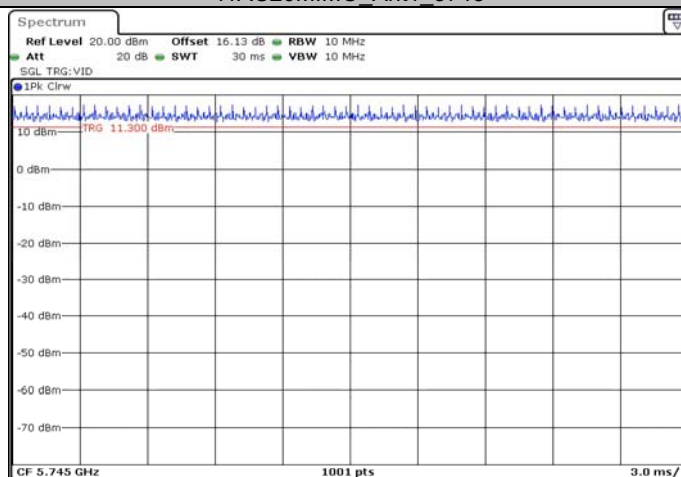
Date: 28.DEC.2020 16:43:19

11AC20MIMO_Ant2_5180



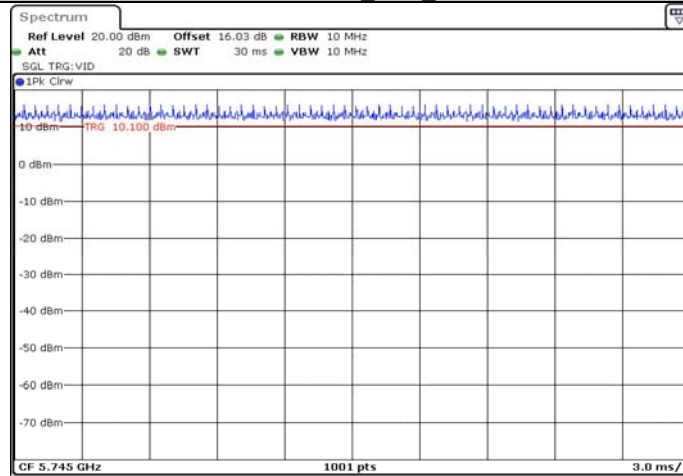
Date: 28.DEC.2020 16:44:24

11AC20MIMO_Ant1_5745



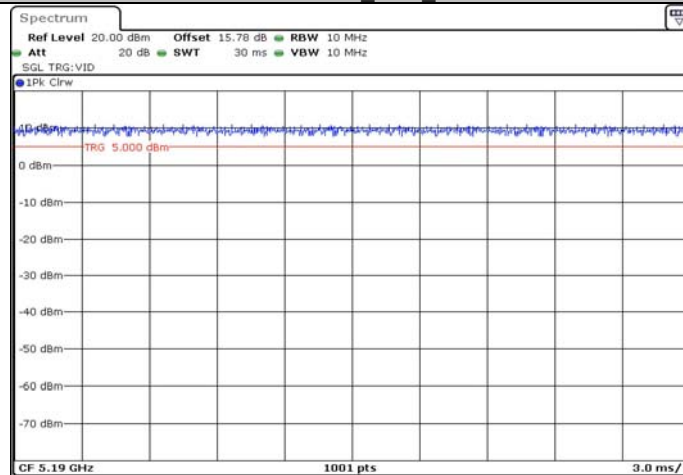
Date: 28.DEC.2020 16:55:25

11AC20MIMO_Ant2_5745



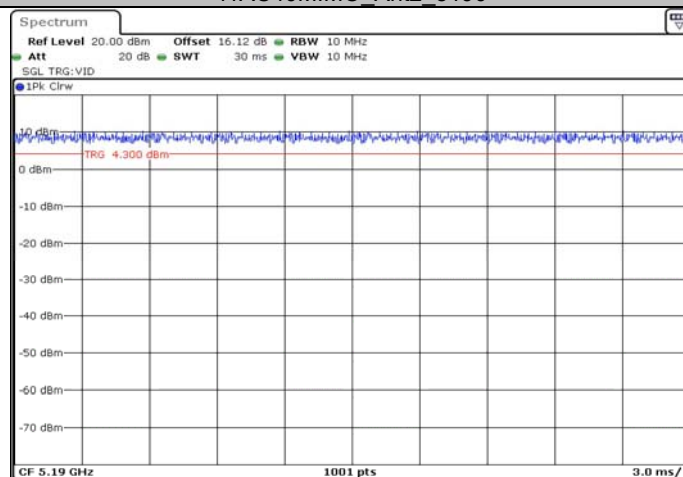
Date: 28.DEC.2020 16:56:36

11AC40MIMO_Ant1_5190



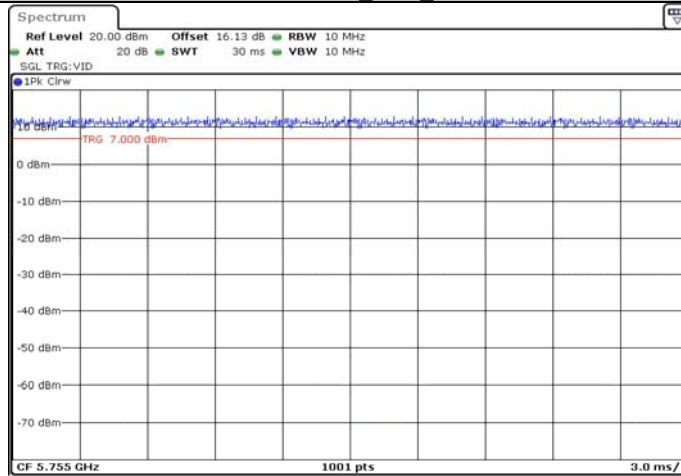
Date: 29.DEC.2020 09:21:34

11AC40MIMO_Ant2_5190



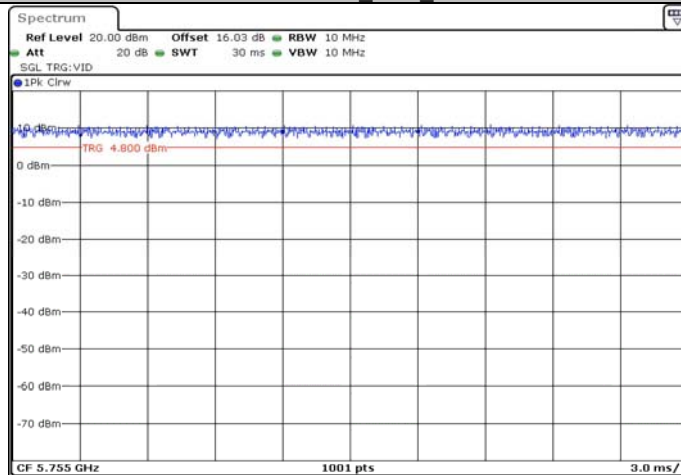
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11AC40MIMO_Ant1_5755



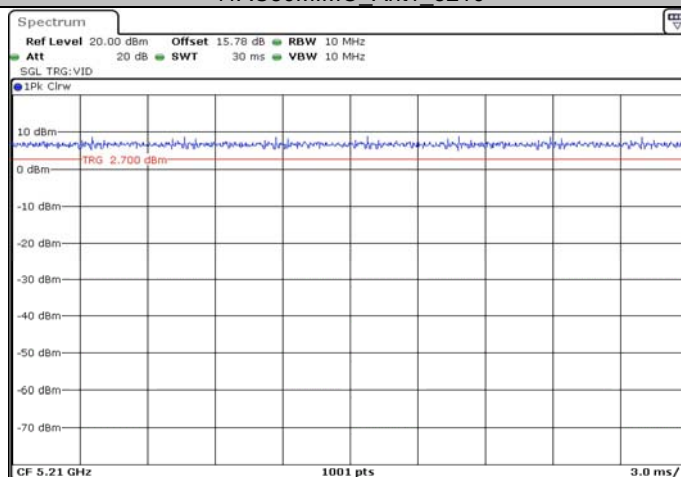
Date: 29.DEC.2020 09:30:58

11AC40MIMO_Ant2_5755

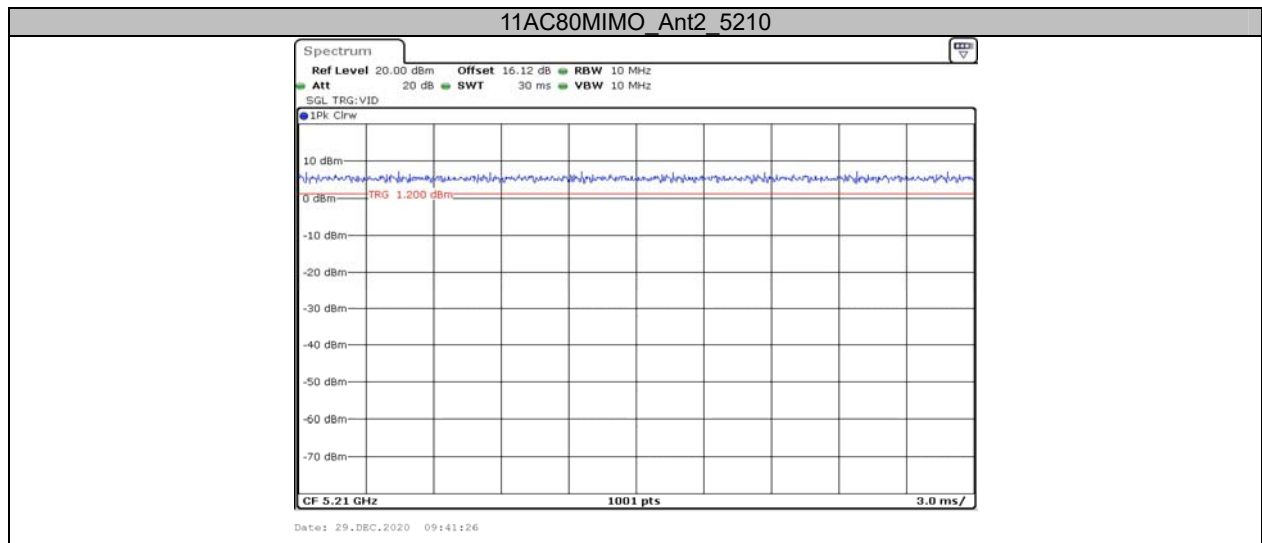


Date: 29.DEC.2020 09:32:17

11AC80MIMO_Ant1_5210



Date: 29.DEC.2020 09:40:19



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