

Appendix A2: Occupied channel bandwidth**Test Result**

5150~5250 MHz:

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.023	5171.449	5188.472	---	PASS
	Ant2	5180	17.063	5171.489	5188.551	---	PASS
	Ant1	5200	17.063	5191.489	5208.551	---	PASS
	Ant2	5200	17.143	5191.449	5208.591	---	PASS
	Ant1	5240	17.303	5231.329	5248.631	---	PASS
	Ant2	5240	17.063	5231.489	5248.551	---	PASS
11N20MIMO	Ant1	5180	17.303	5171.289	5188.591	---	PASS
	Ant2	5180	17.942	5171.009	5188.951	---	PASS
	Ant1	5200	17.063	5191.489	5208.551	---	PASS
	Ant2	5200	17.982	5191.009	5208.991	---	PASS
	Ant1	5240	17.143	5231.409	5248.551	---	PASS
	Ant2	5240	17.942	5231.009	5248.951	---	PASS
11N40MIMO	Ant1	5190	36.364	5171.858	5208.222	---	PASS
	Ant2	5190	36.284	5171.938	5208.222	---	PASS
	Ant1	5230	36.204	5211.938	5248.142	---	PASS
	Ant2	5230	36.204	5211.938	5248.142	---	PASS
11AC20MIMO	Ant1	5180	18.182	5170.929	5189.111	---	PASS
	Ant2	5180	17.942	5171.049	5188.991	---	PASS
	Ant1	5200	18.262	5190.889	5209.151	---	PASS
	Ant2	5200	17.942	5191.049	5208.991	---	PASS
	Ant1	5240	18.302	5230.849	5249.151	---	PASS
	Ant2	5240	17.942	5231.009	5248.951	---	PASS
11AC40MIMO	Ant1	5190	36.364	5171.858	5208.222	---	PASS
	Ant2	5190	36.284	5171.858	5208.142	---	PASS
	Ant1	5230	36.204	5211.938	5248.142	---	PASS
	Ant2	5230	36.204	5211.938	5248.142	---	PASS
11AC80MIMO	Ant1	5210	75.445	5172.278	5247.722	---	PASS
	Ant2	5210	75.604	5172.118	5247.722	---	PASS

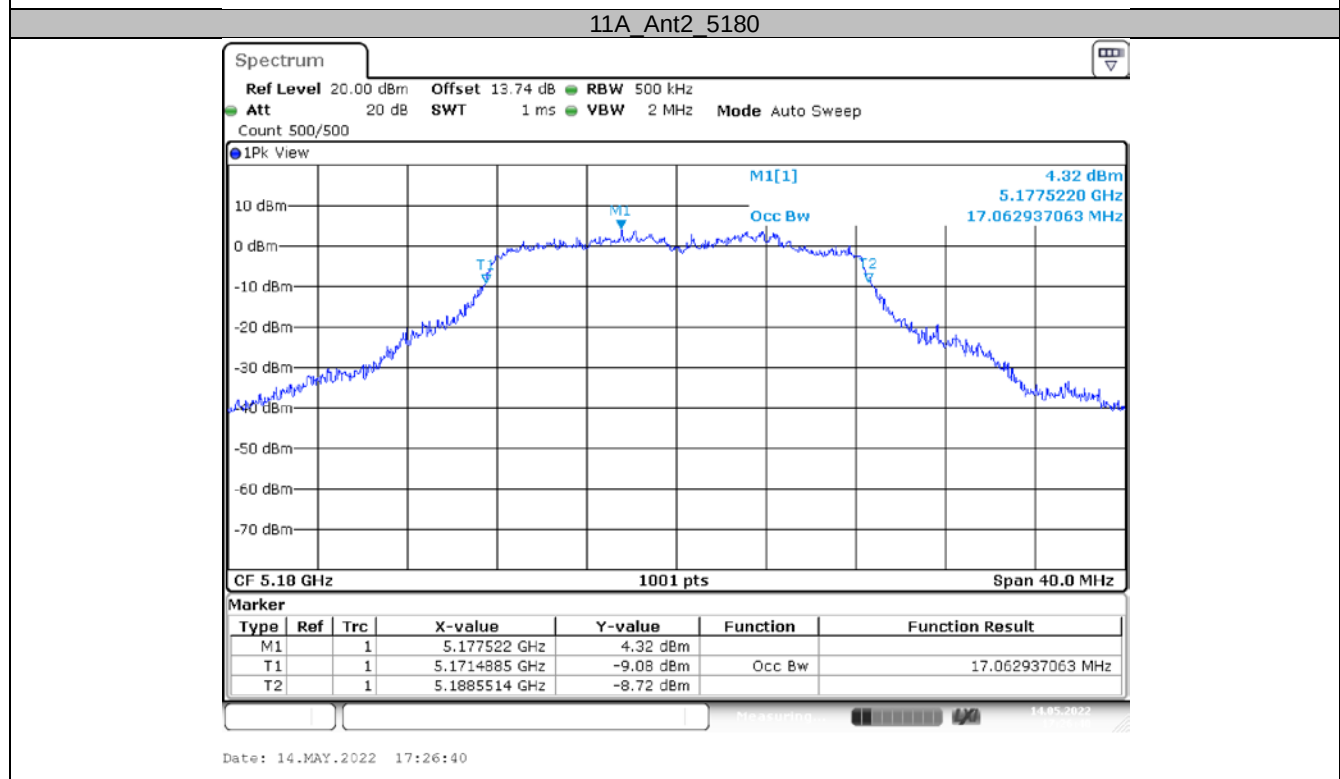
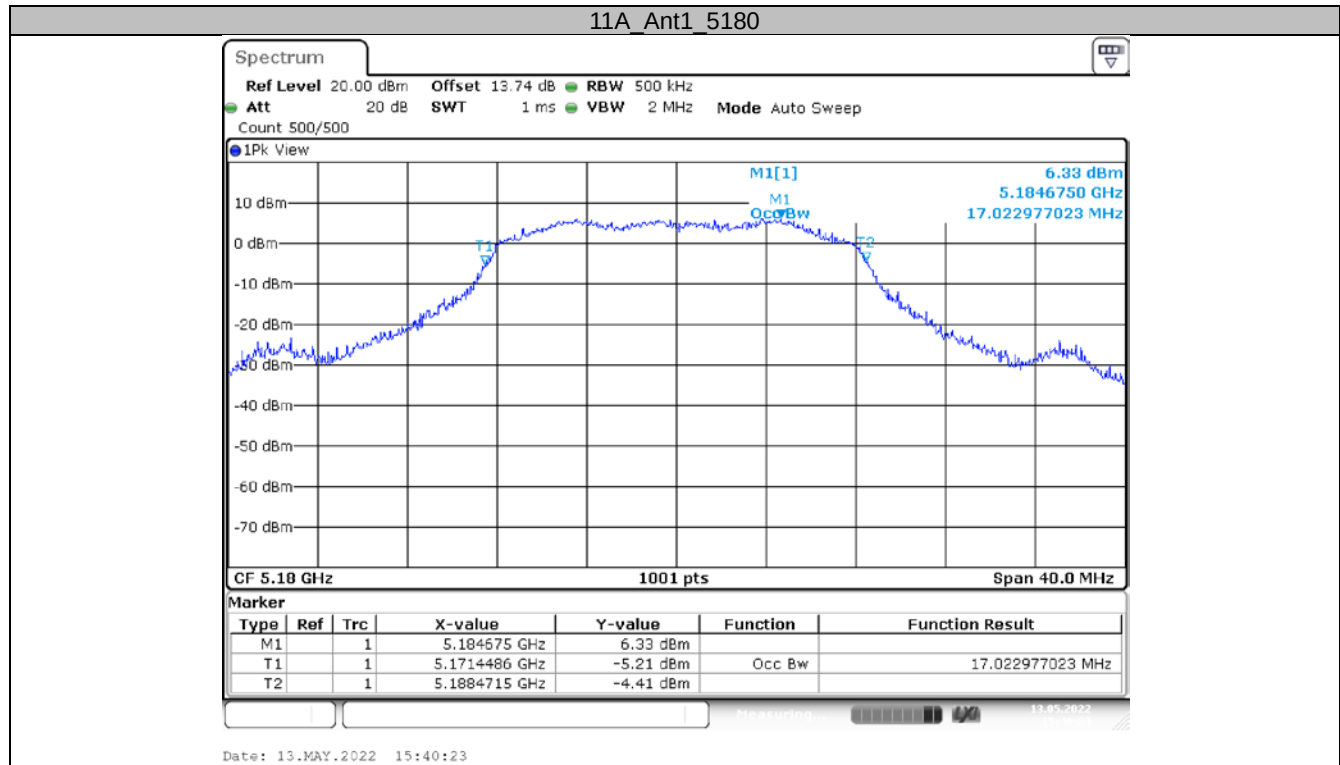
Note: No transmitted signal in the 99% bandwidth extends into the U-NII-2A band and U-NII-2C band.

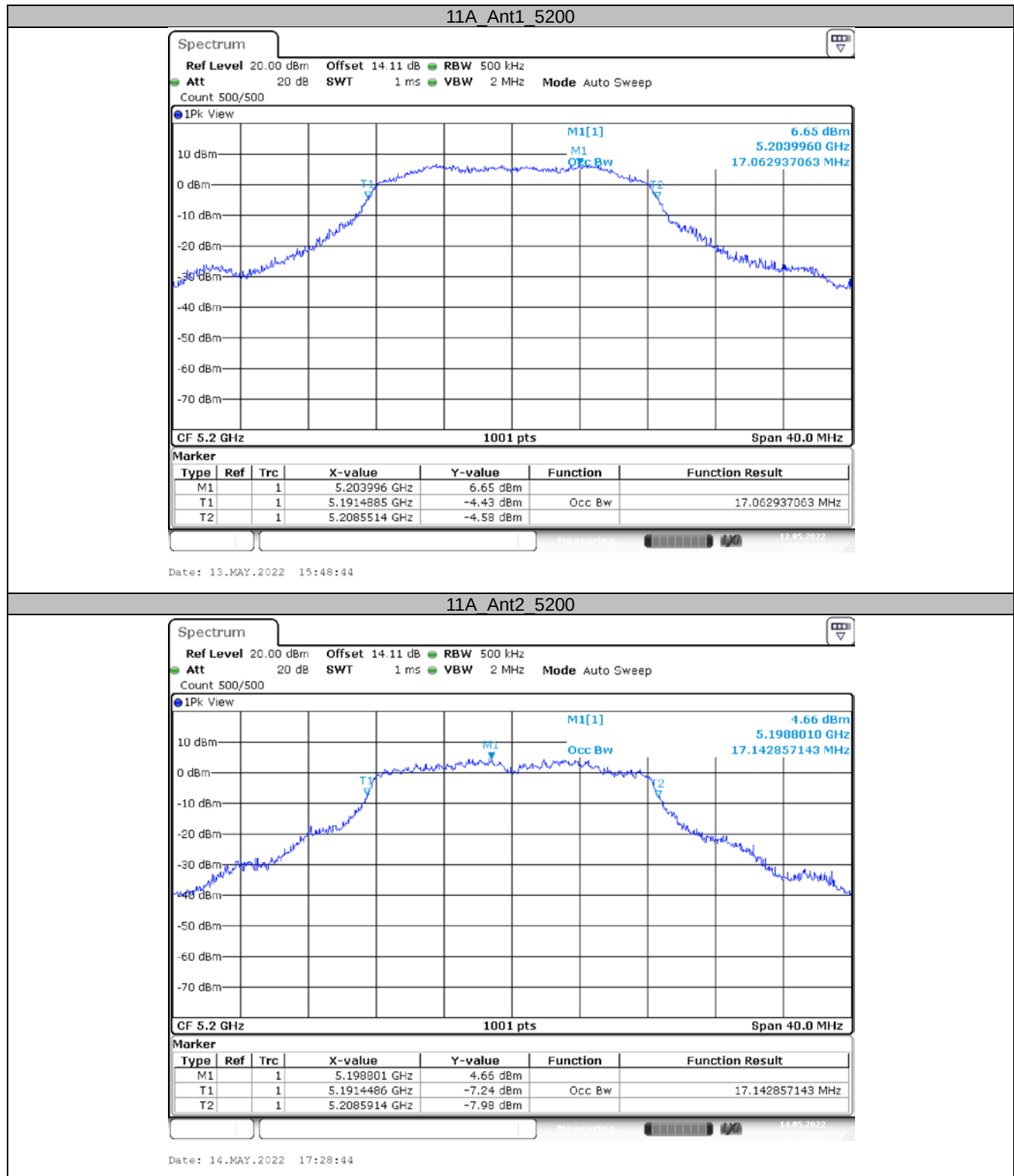
5725~5850 MHz:

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.263	5736.369	5753.631	---	PASS
	Ant2	5745	16.983	5736.489	5753.472	---	PASS
	Ant1	5785	17.423	5776.249	5793.671	---	PASS
	Ant2	5785	17.023	5776.489	5793.511	---	PASS
	Ant1	5825	17.502	5816.169	5833.671	---	PASS
	Ant2	5825	16.903	5816.528	5833.432	---	PASS
11N20MIMO	Ant1	5745	17.423	5736.329	5753.751	---	PASS
	Ant2	5745	17.942	5736.009	5753.951	---	PASS
	Ant1	5785	17.383	5776.289	5793.671	---	PASS
	Ant2	5785	17.942	5776.049	5793.991	---	PASS
	Ant1	5825	17.383	5816.289	5833.671	---	PASS
	Ant2	5825	17.862	5816.049	5833.911	---	PASS
11N40MIMO	Ant1	5755	36.444	5736.778	5773.222	---	PASS
	Ant2	5755	36.284	5736.858	5773.142	---	PASS
	Ant1	5795	36.444	5776.778	5813.222	---	PASS
	Ant2	5795	36.284	5776.938	5813.222	---	PASS
11AC20MIMO	Ant1	5745	18.342	5735.849	5754.191	---	PASS
	Ant2	5745	17.942	5736.009	5753.951	---	PASS
	Ant1	5785	18.462	5775.769	5794.231	---	PASS
	Ant2	5785	17.942	5776.049	5793.991	---	PASS
	Ant1	5825	18.422	5815.809	5834.231	---	PASS
	Ant2	5825	17.902	5816.049	5833.951	---	PASS
11AC40MIMO	Ant1	5755	36.444	5736.778	5773.222	---	PASS
	Ant2	5755	36.284	5736.858	5773.142	---	PASS
	Ant1	5795	36.763	5776.618	5813.382	---	PASS
	Ant2	5795	36.364	5776.858	5813.222	---	PASS
11AC80MIMO	Ant1	5775	75.764	5737.118	5812.882	---	PASS
	Ant2	5775	75.764	5737.118	5812.882	---	PASS

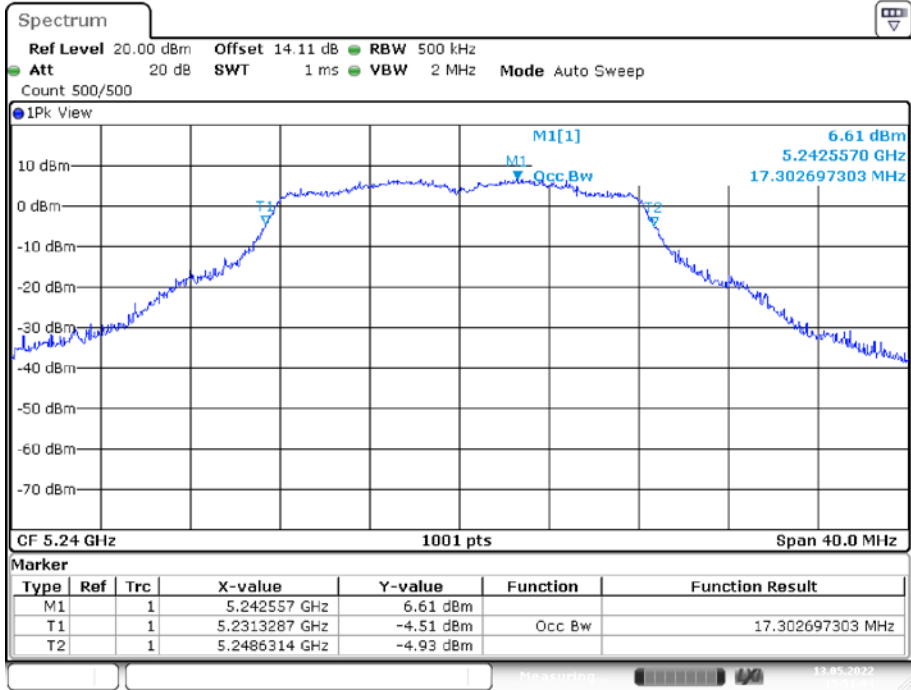
Note: No transmitted signal in the 99% bandwidth extends into the U-NII-2A band and U-NII-2C band.

Test Graphs



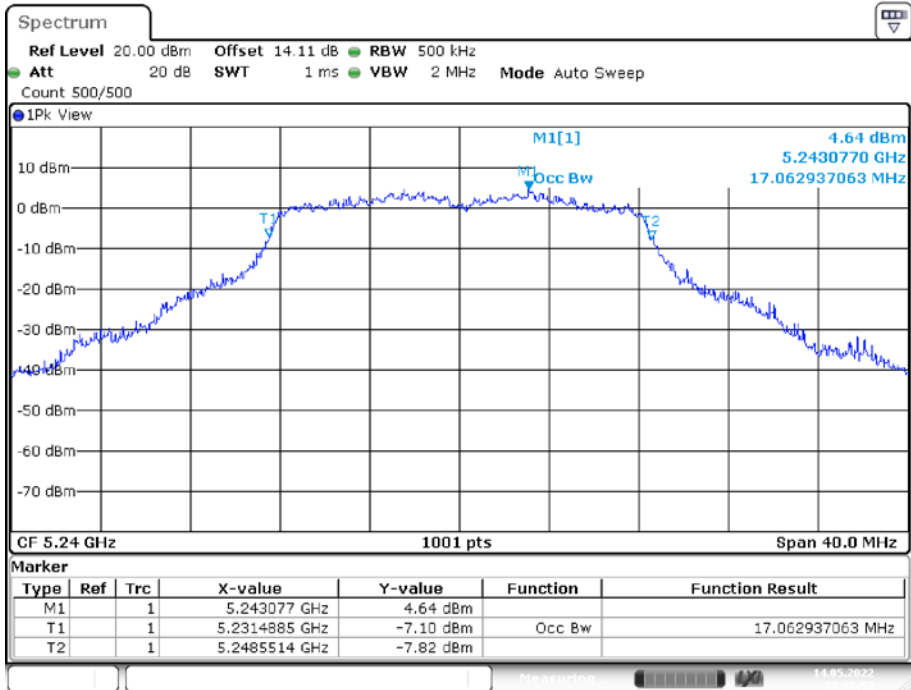


11A_Ant1_5240

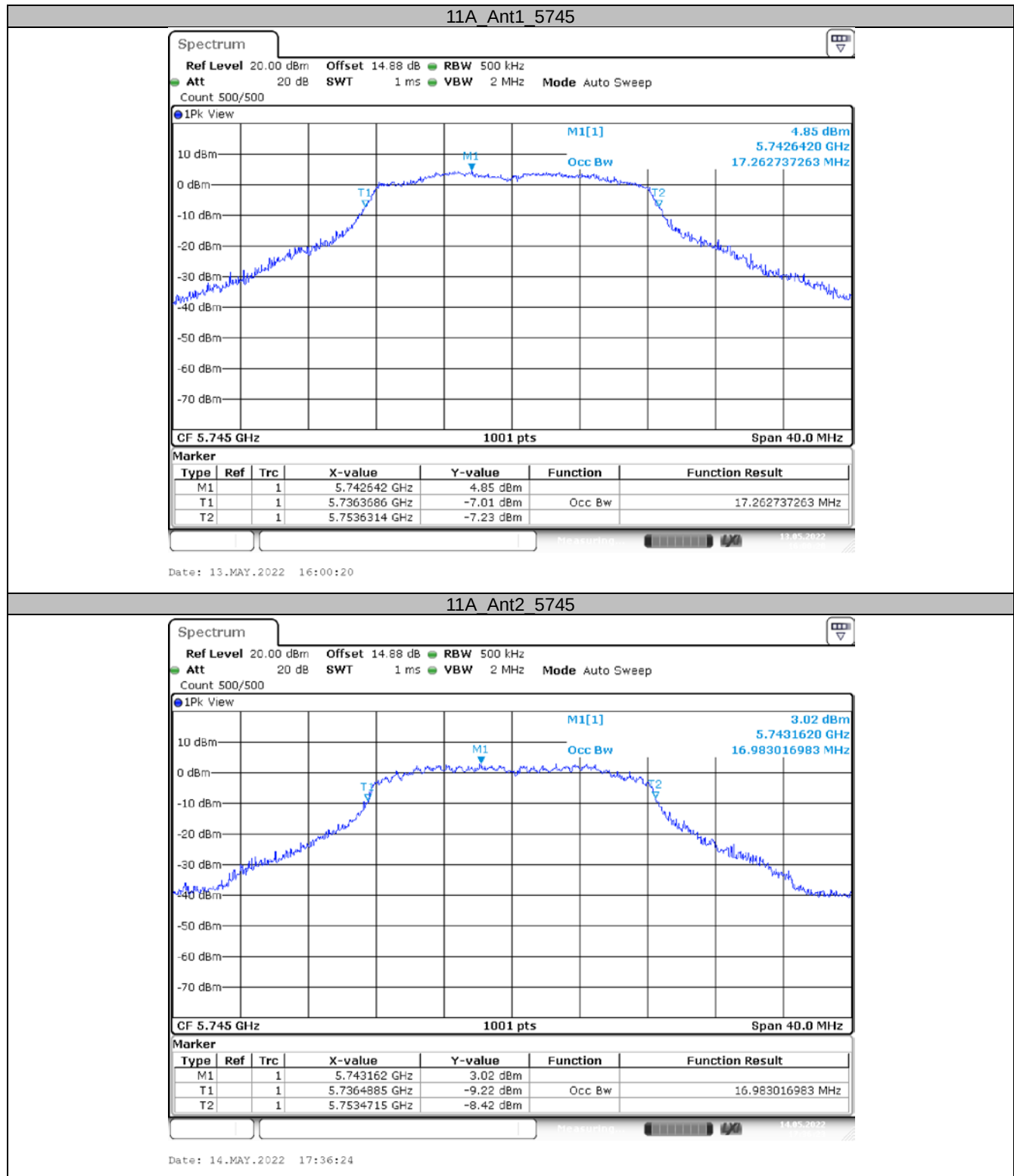


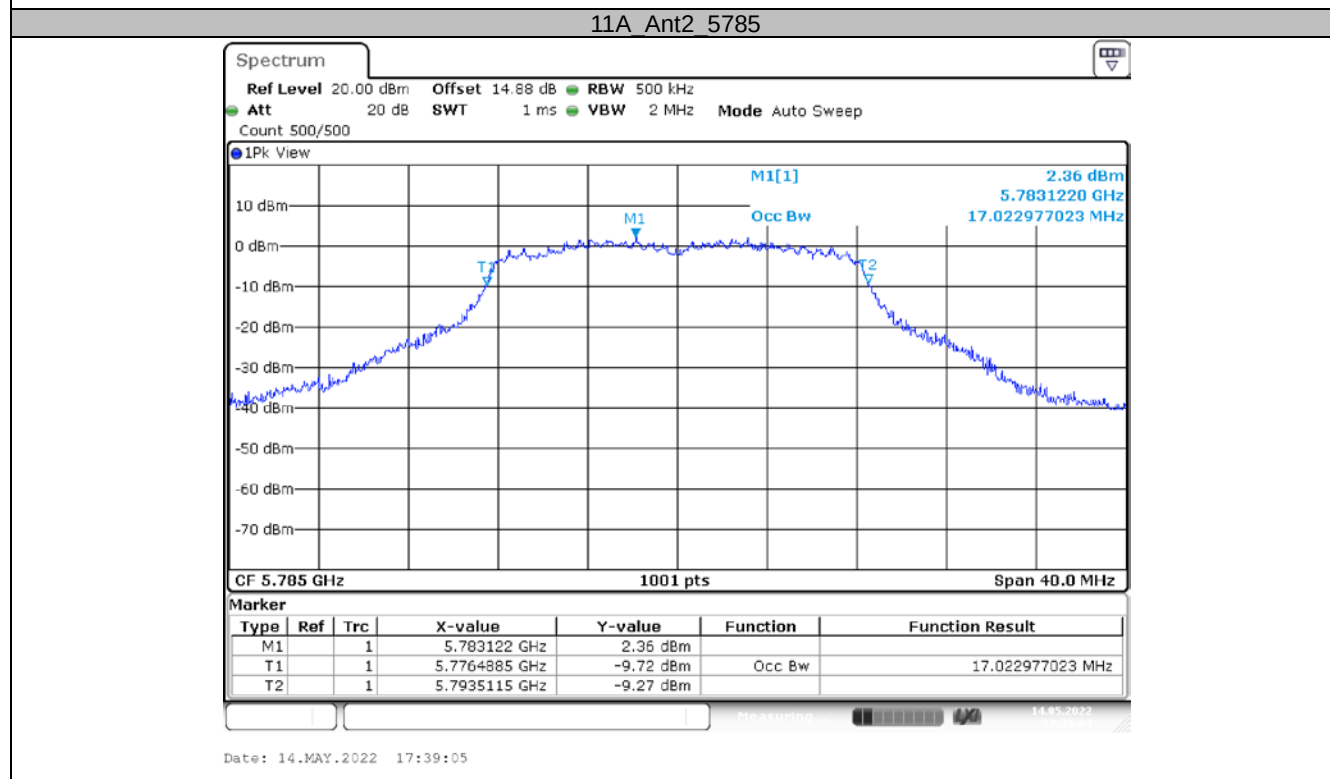
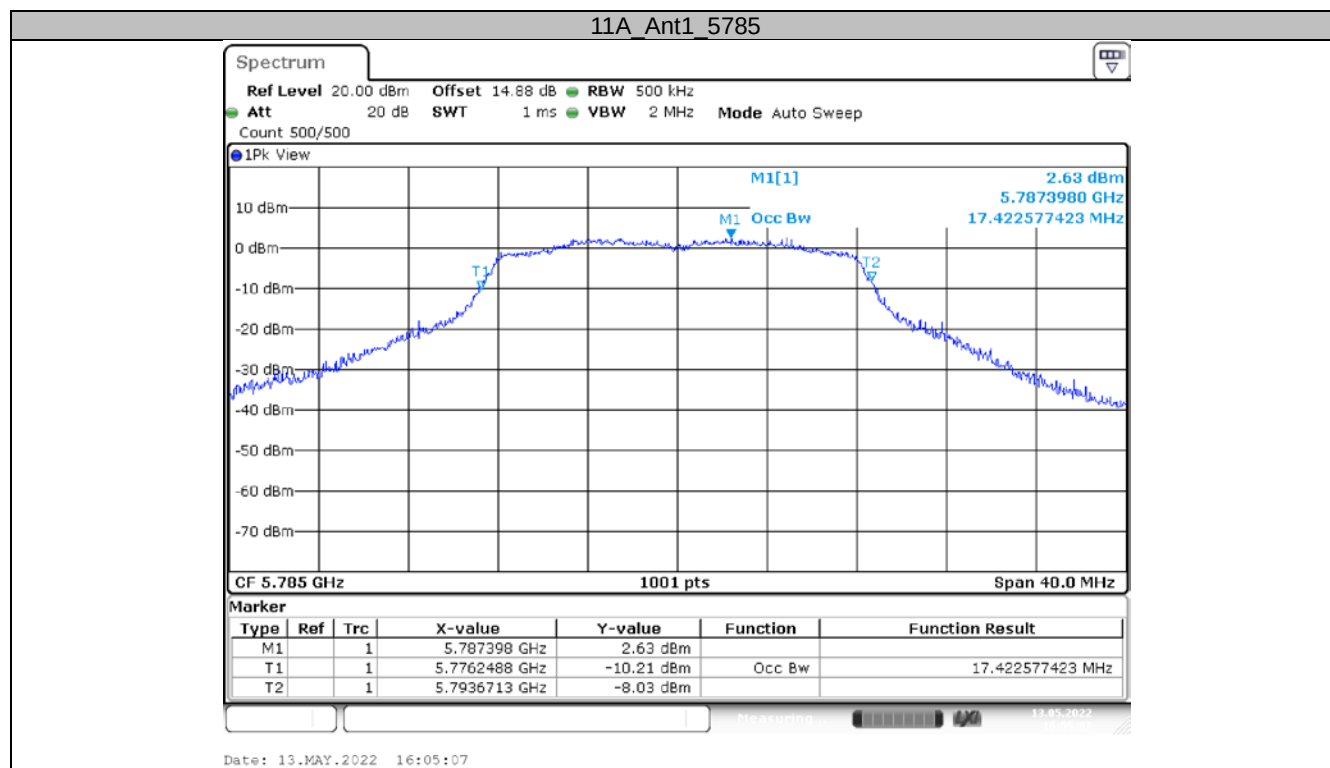
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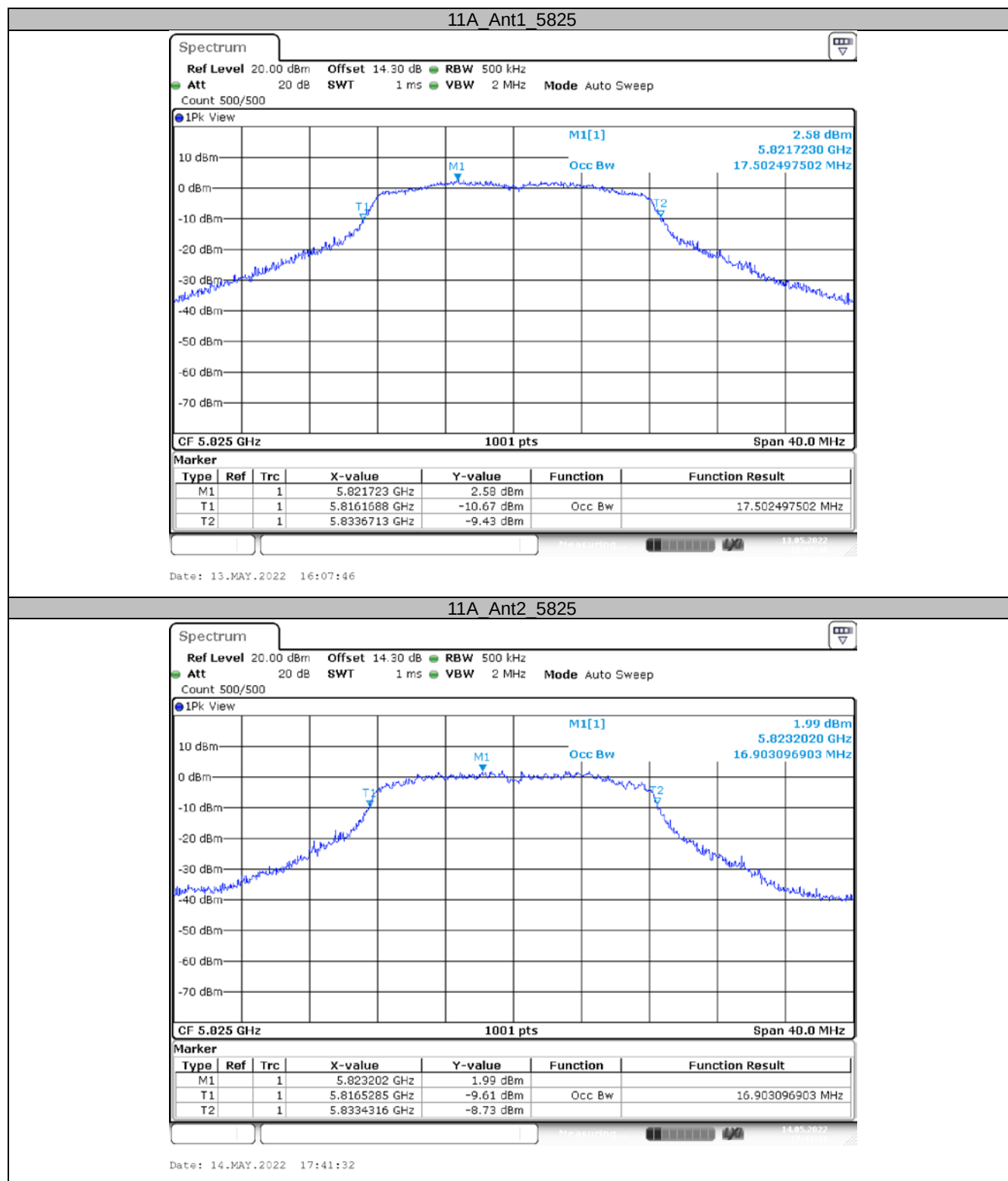
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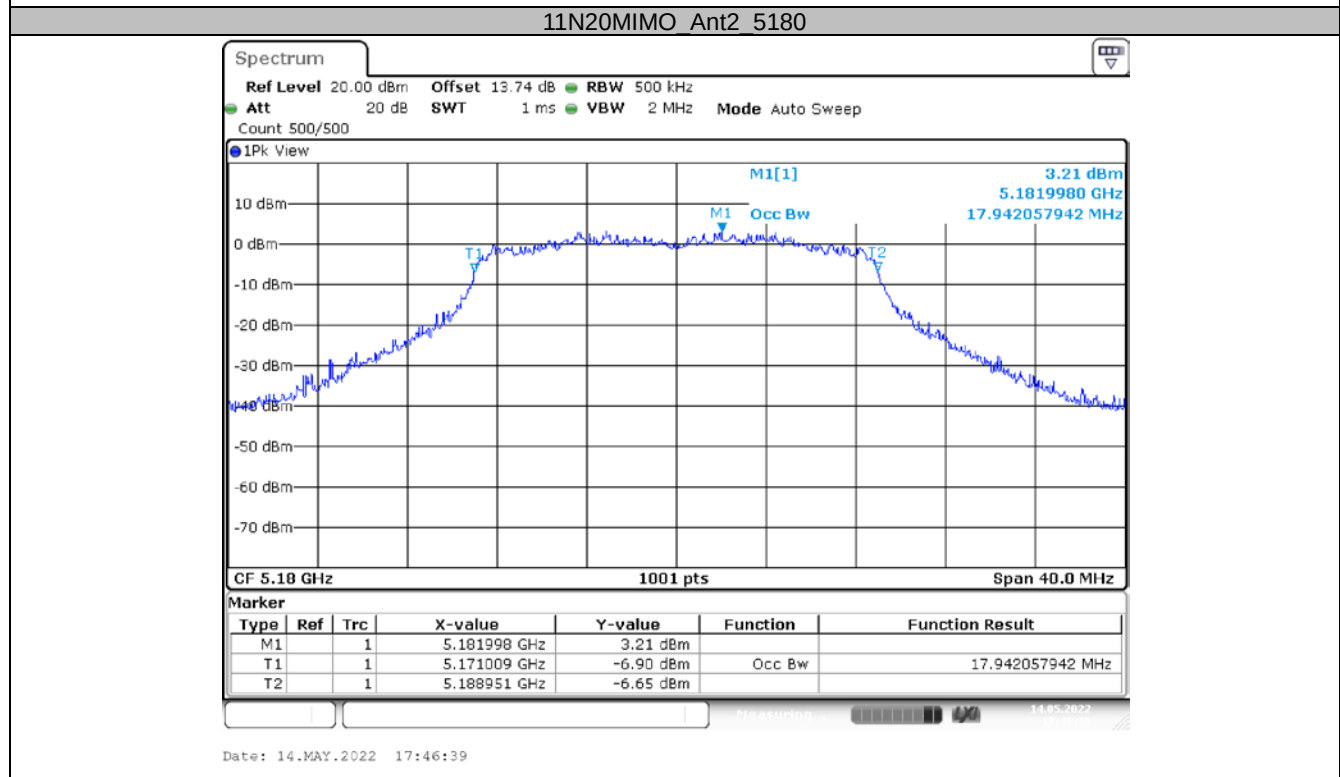
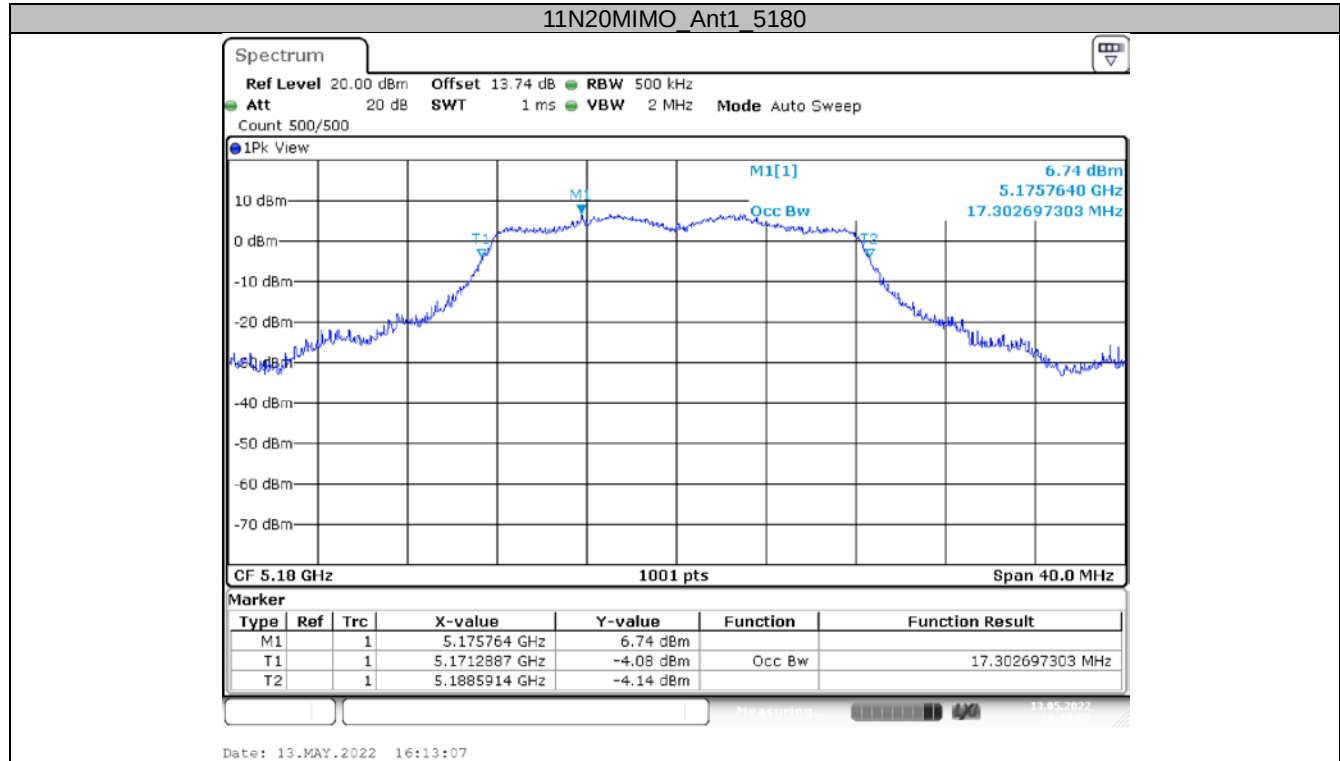


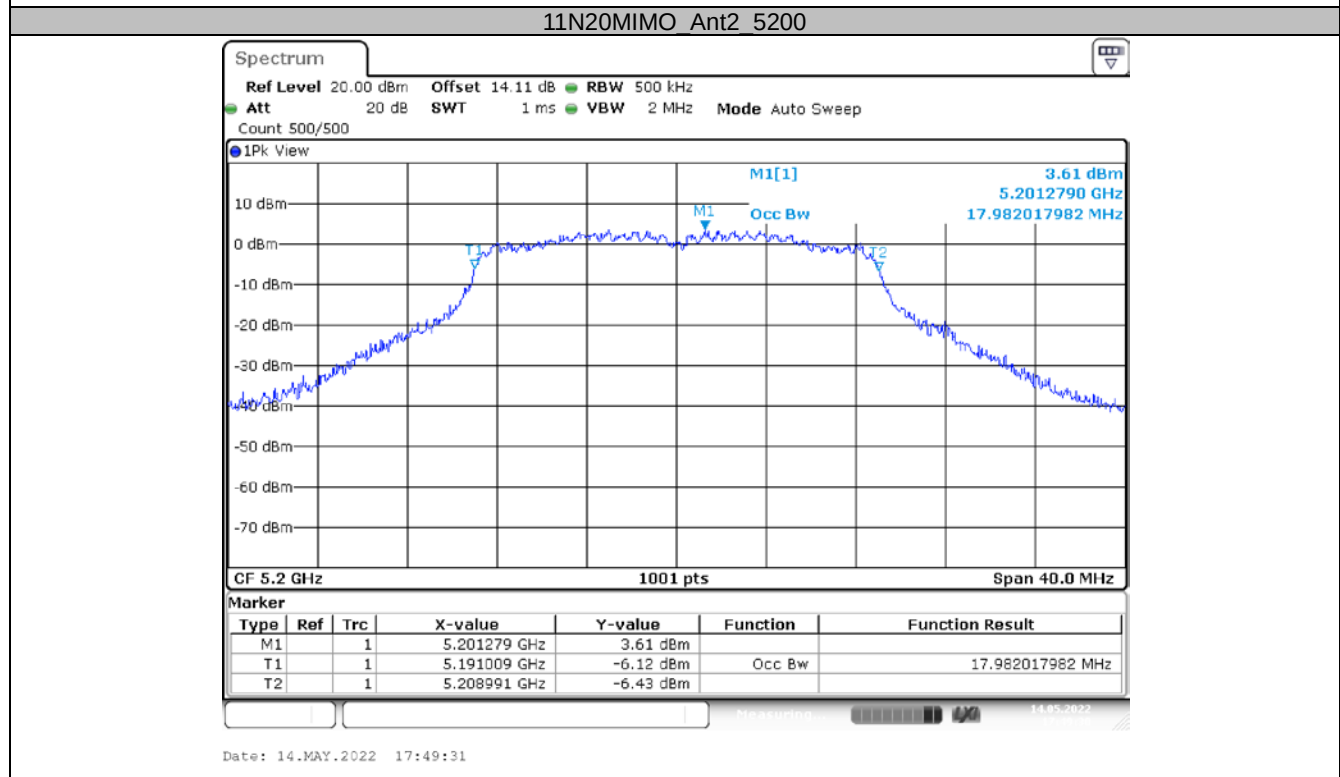
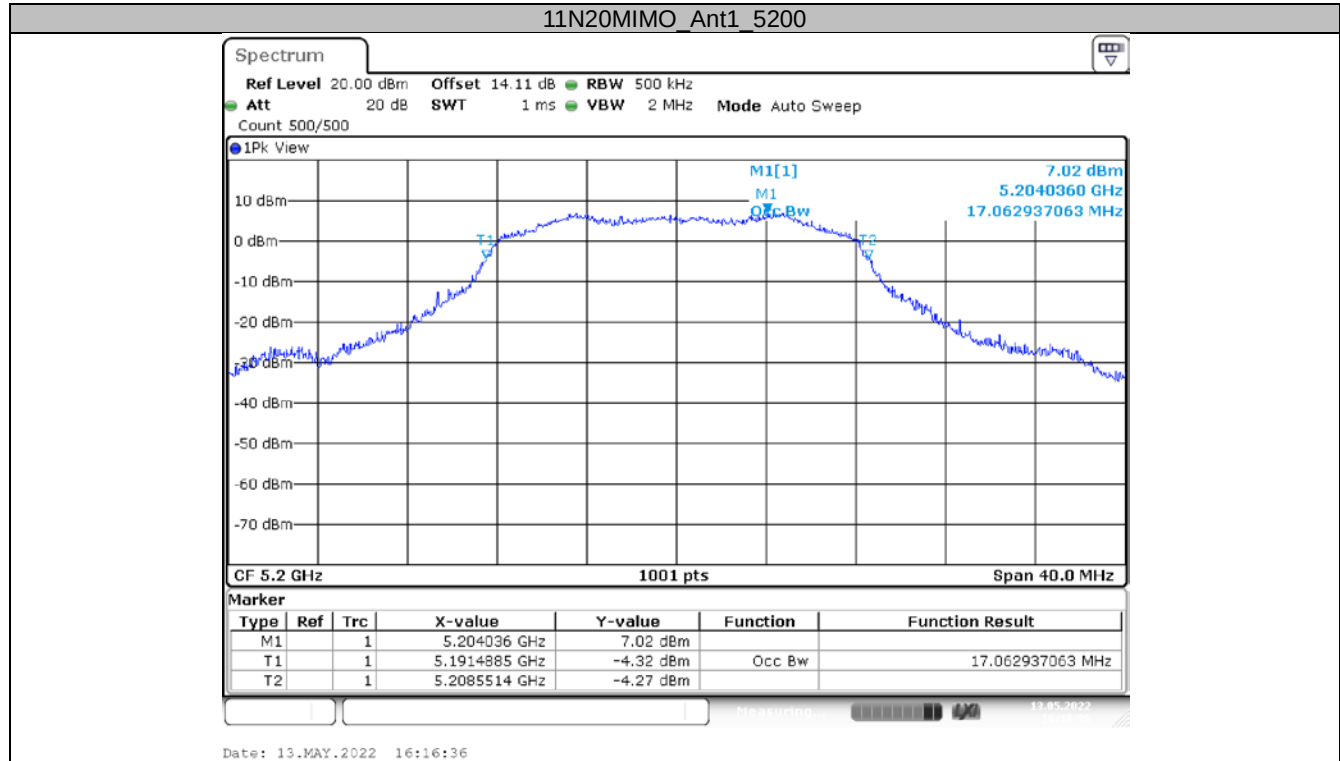
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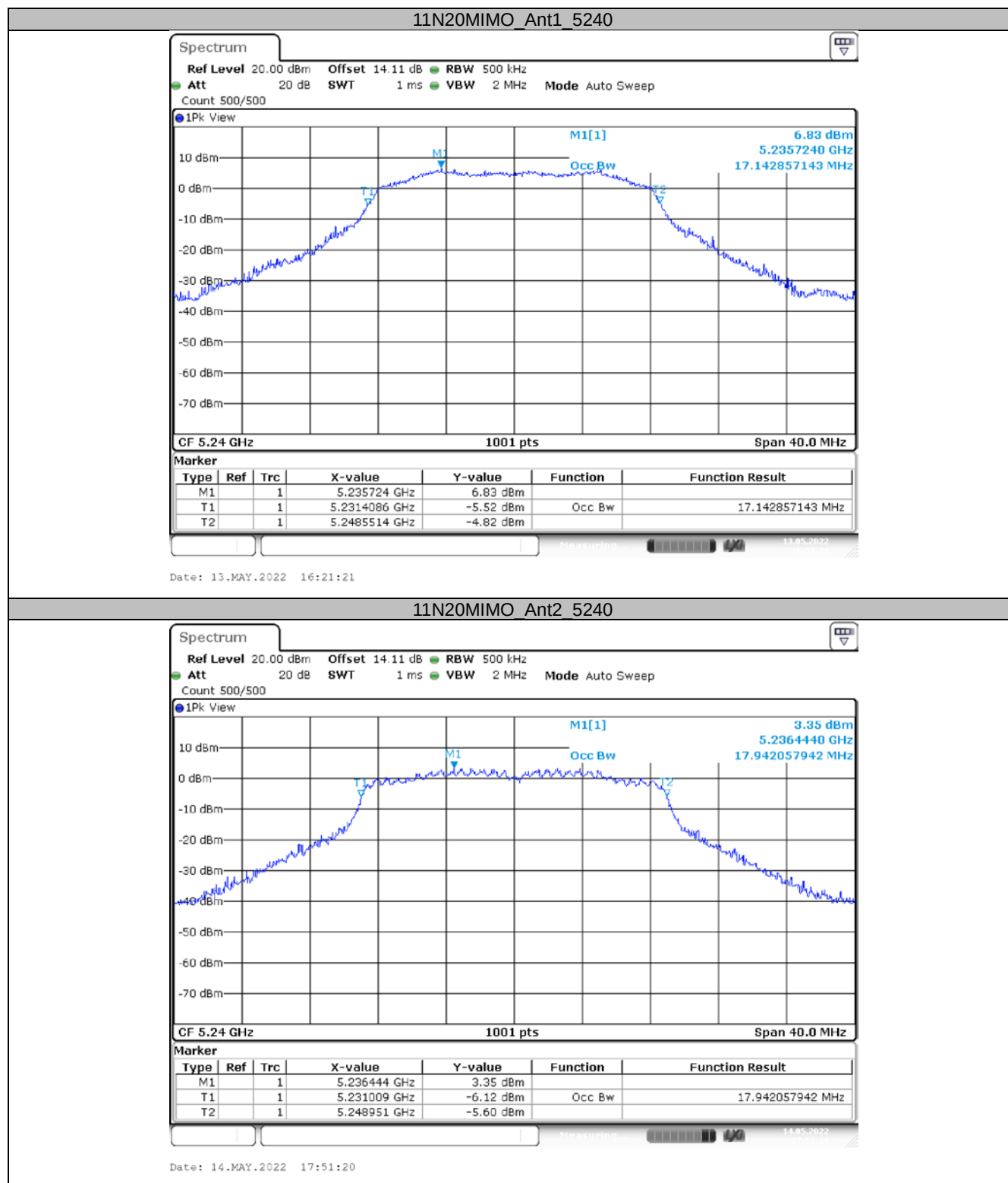


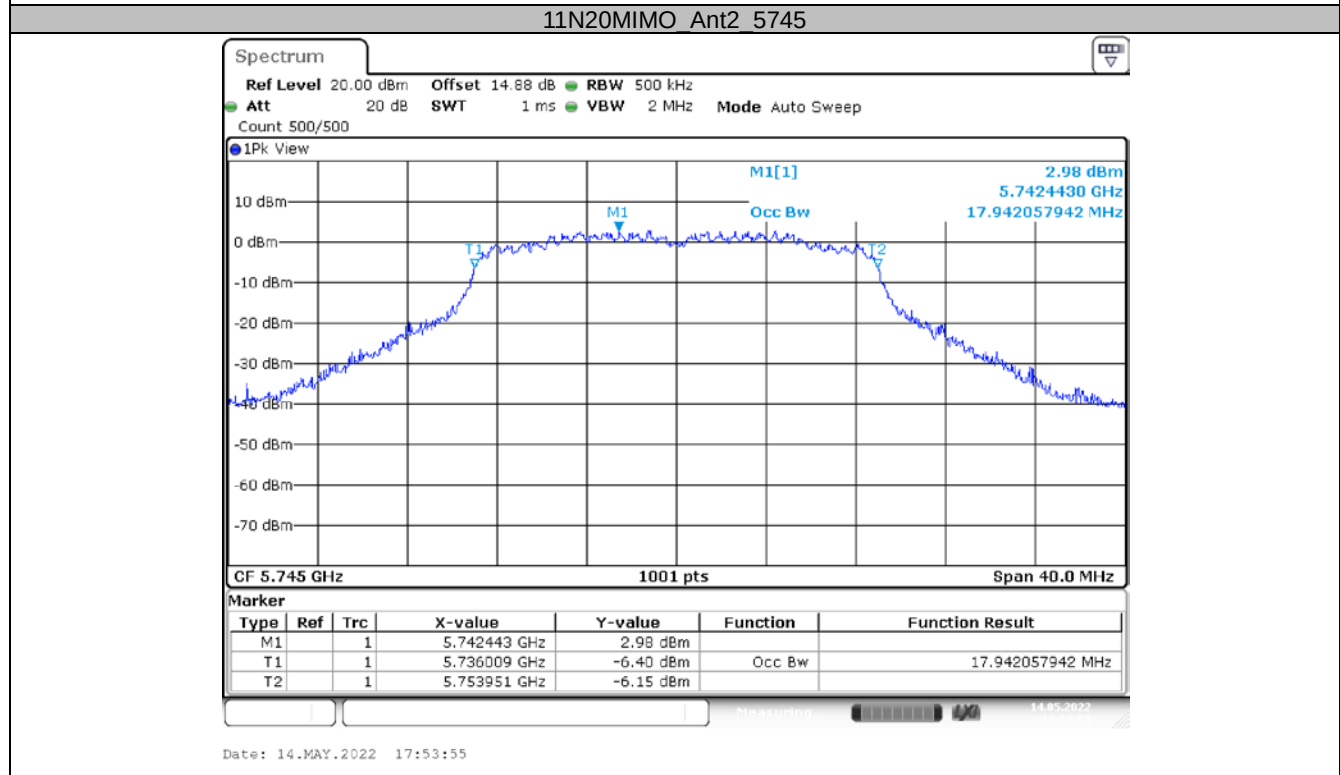
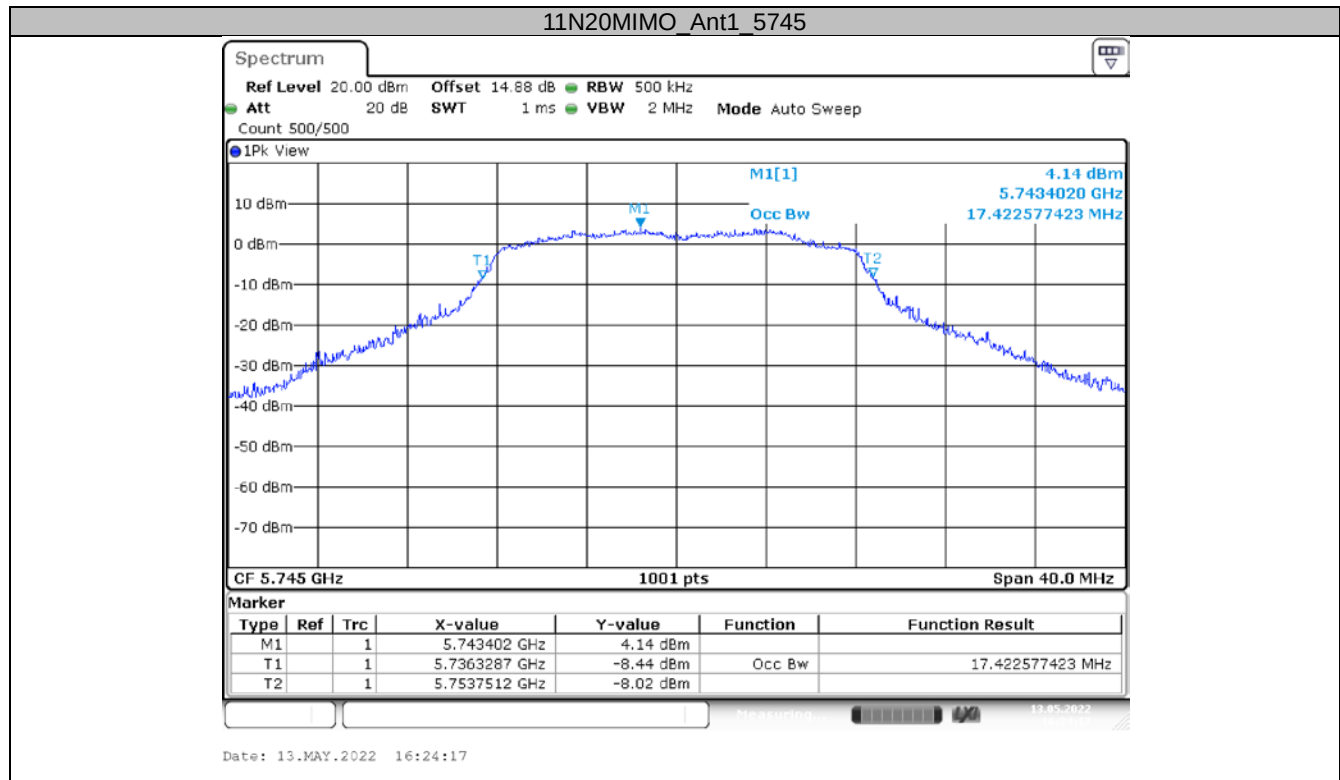


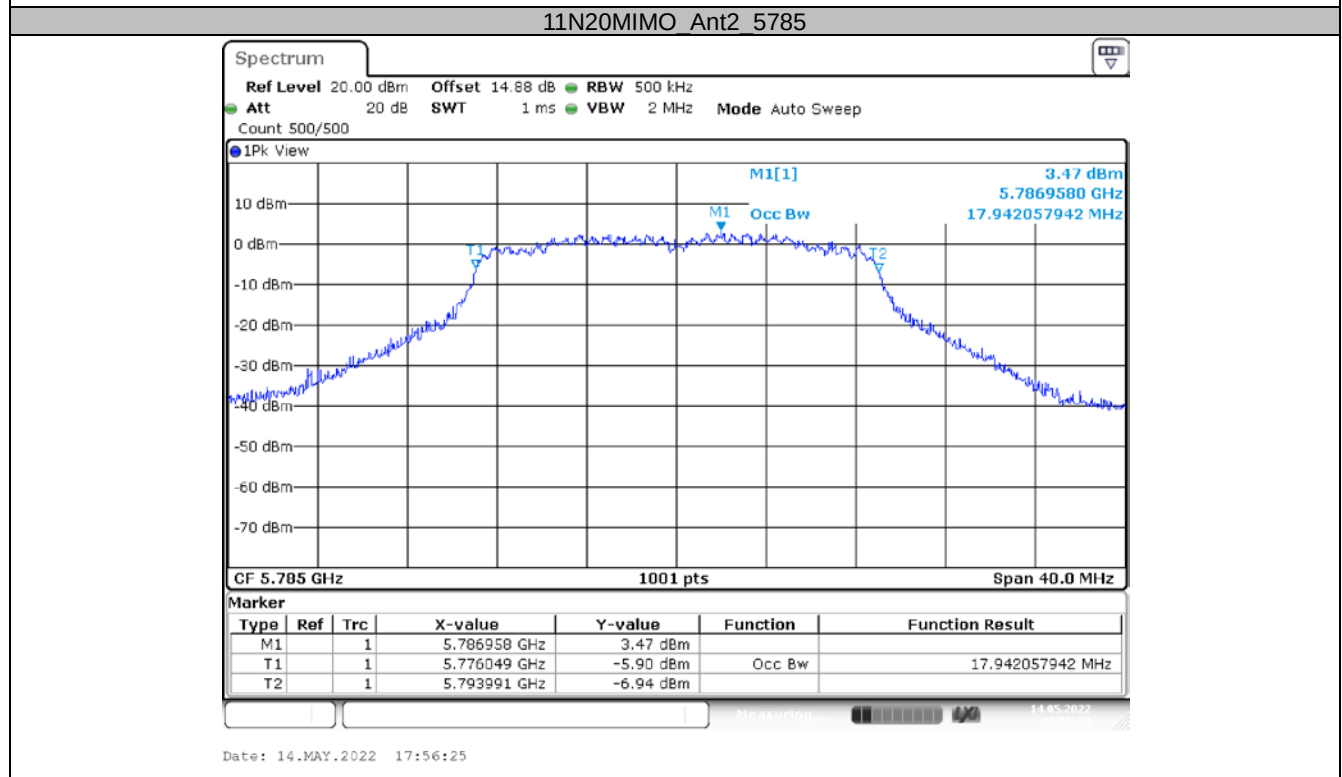
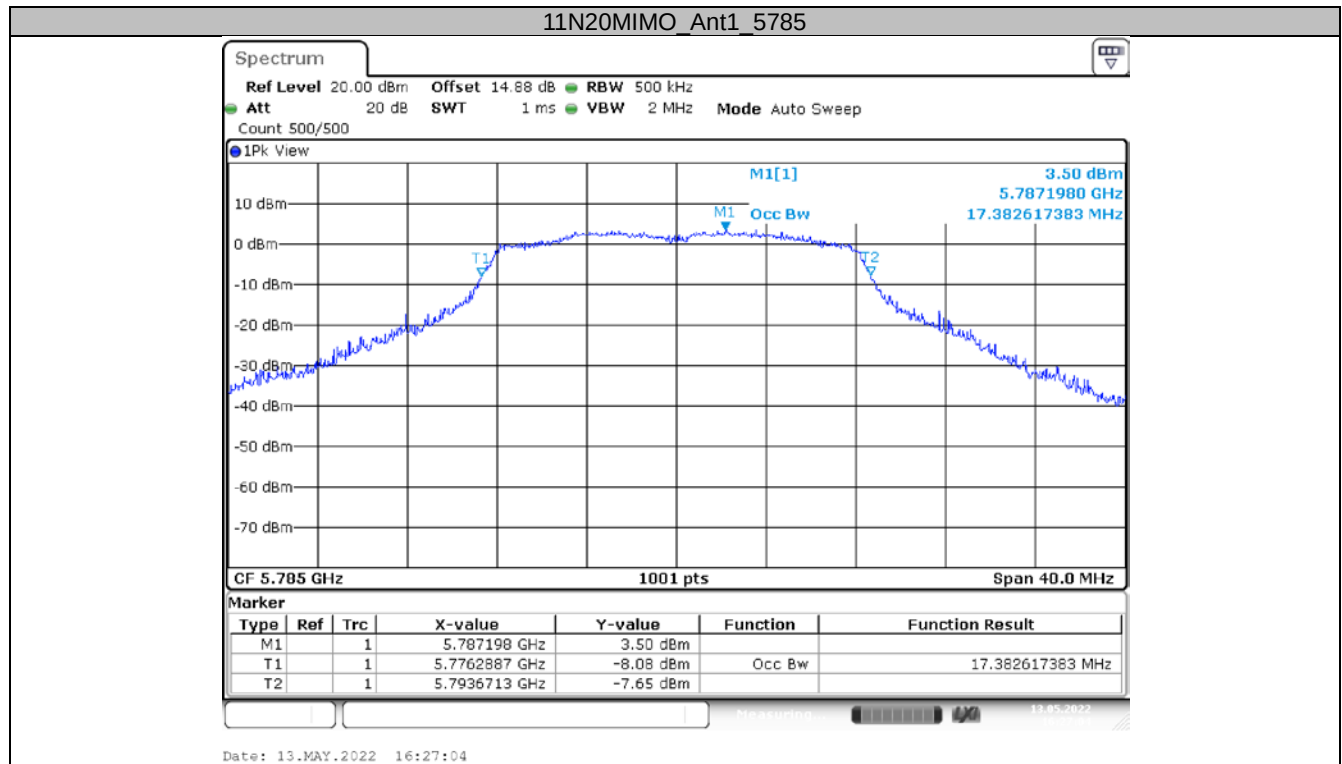


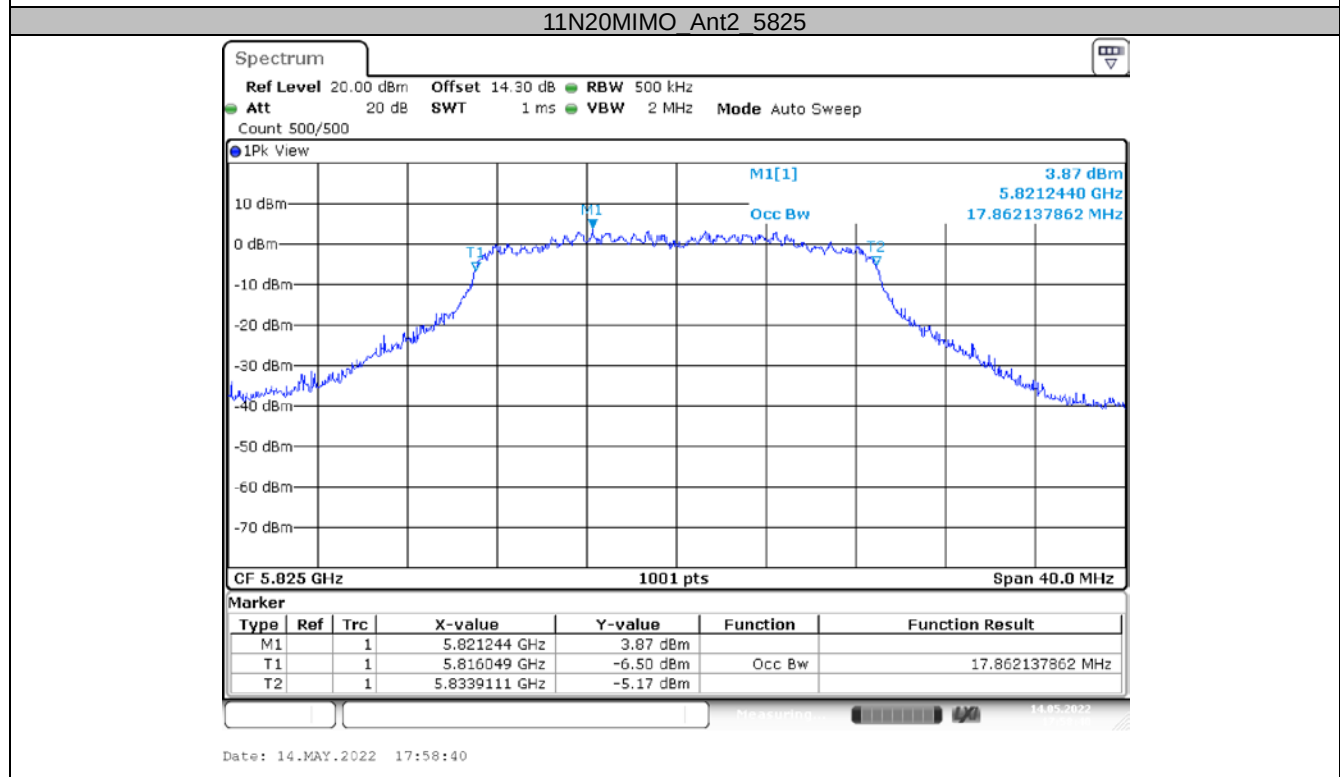
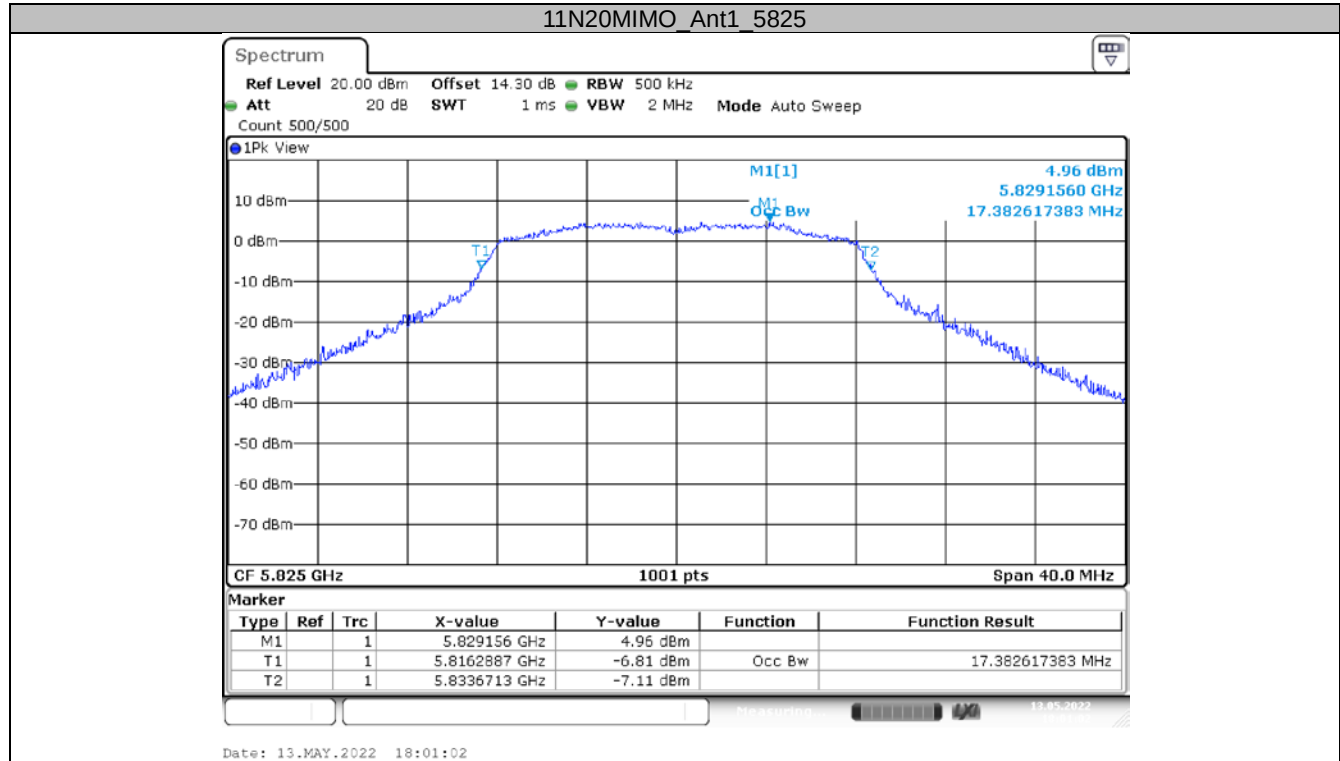


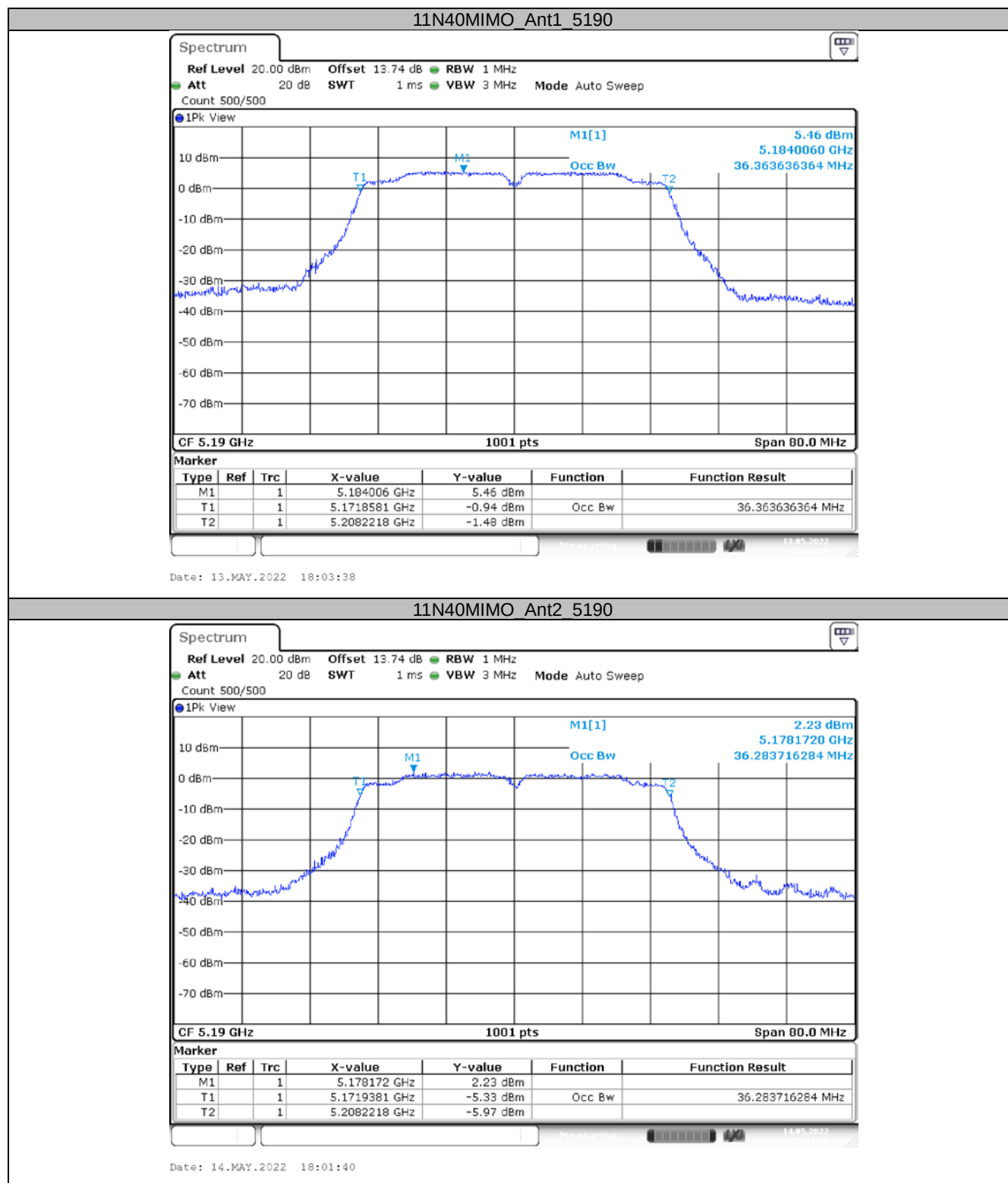


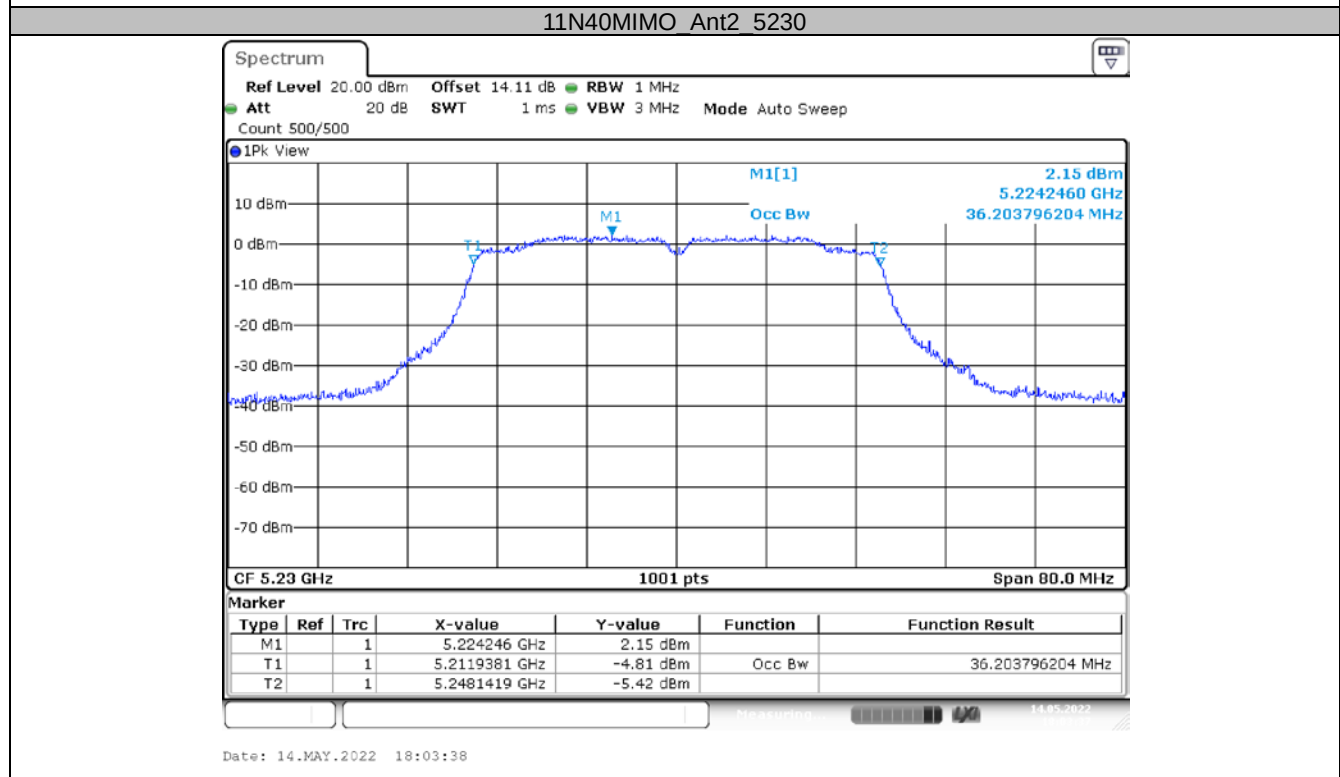
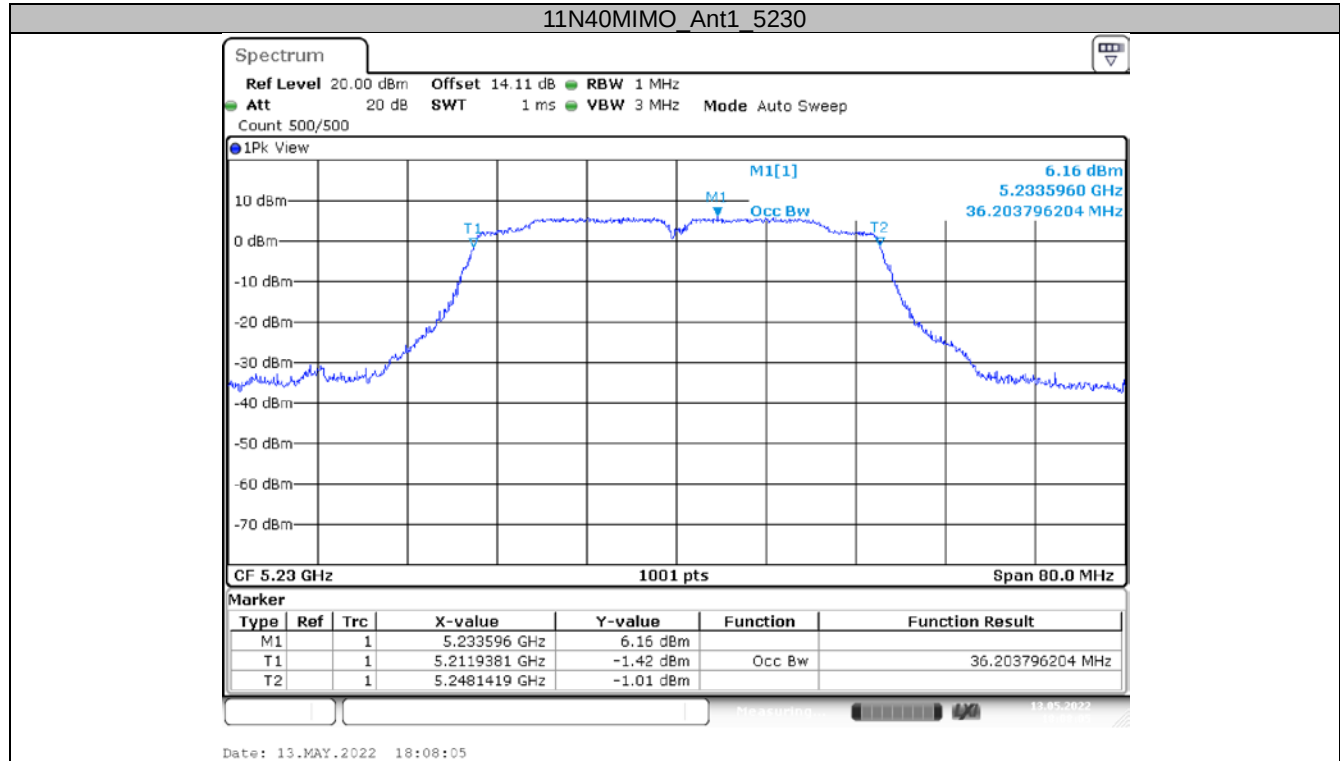


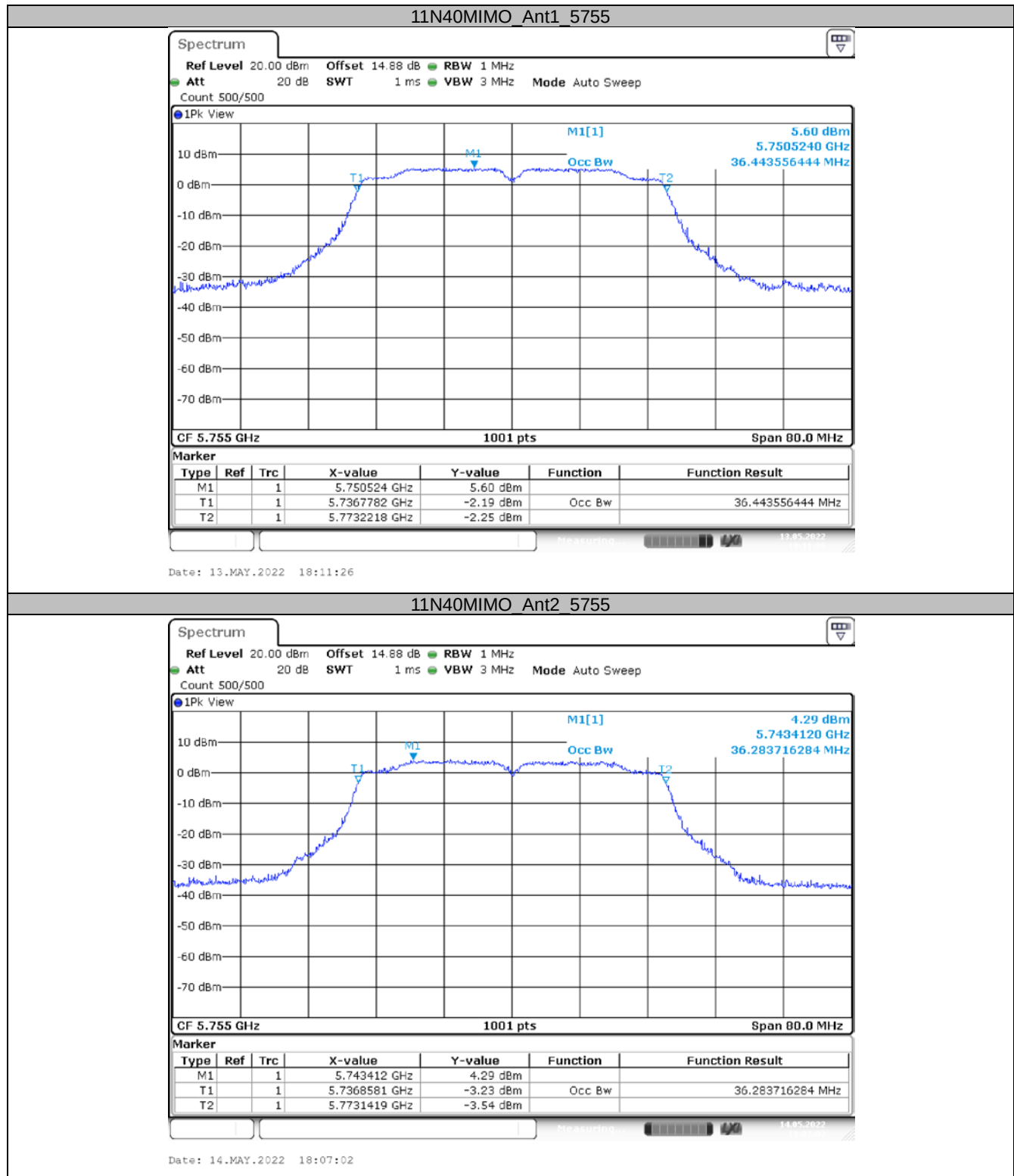


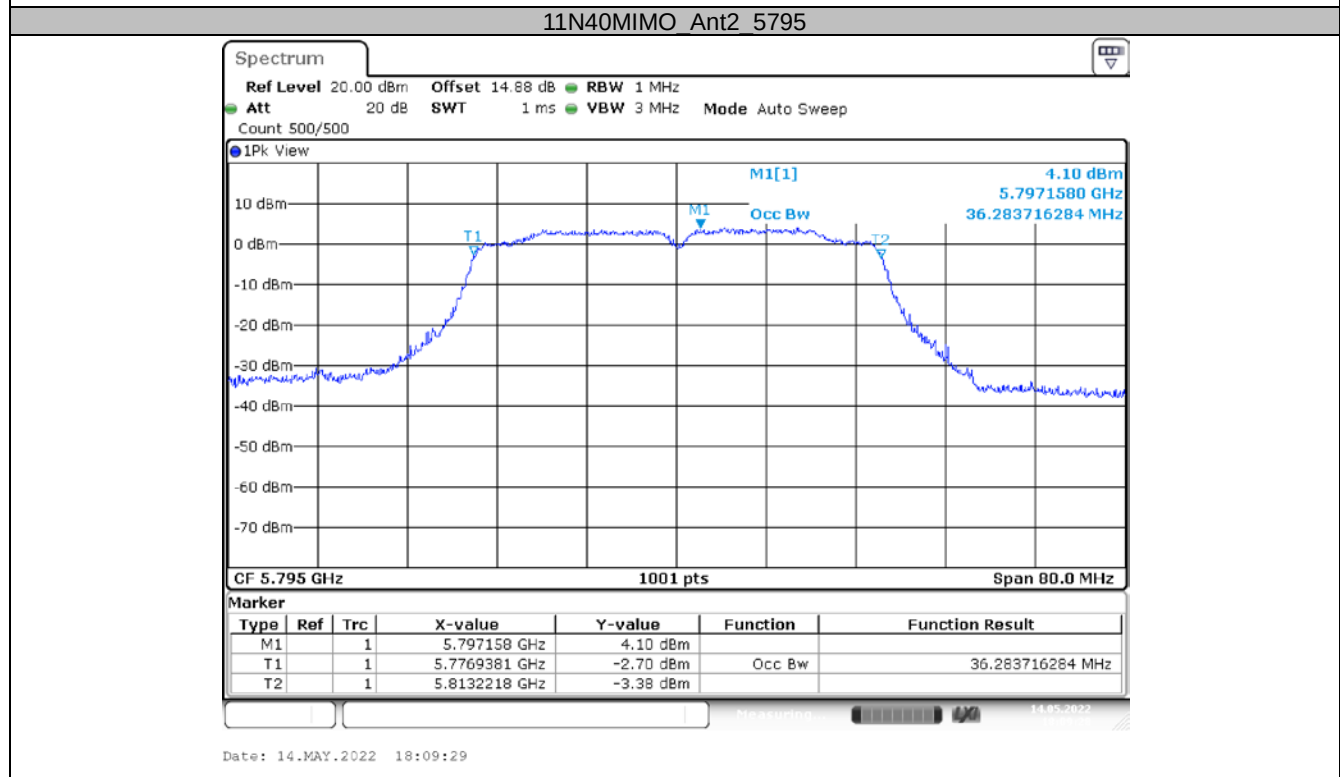
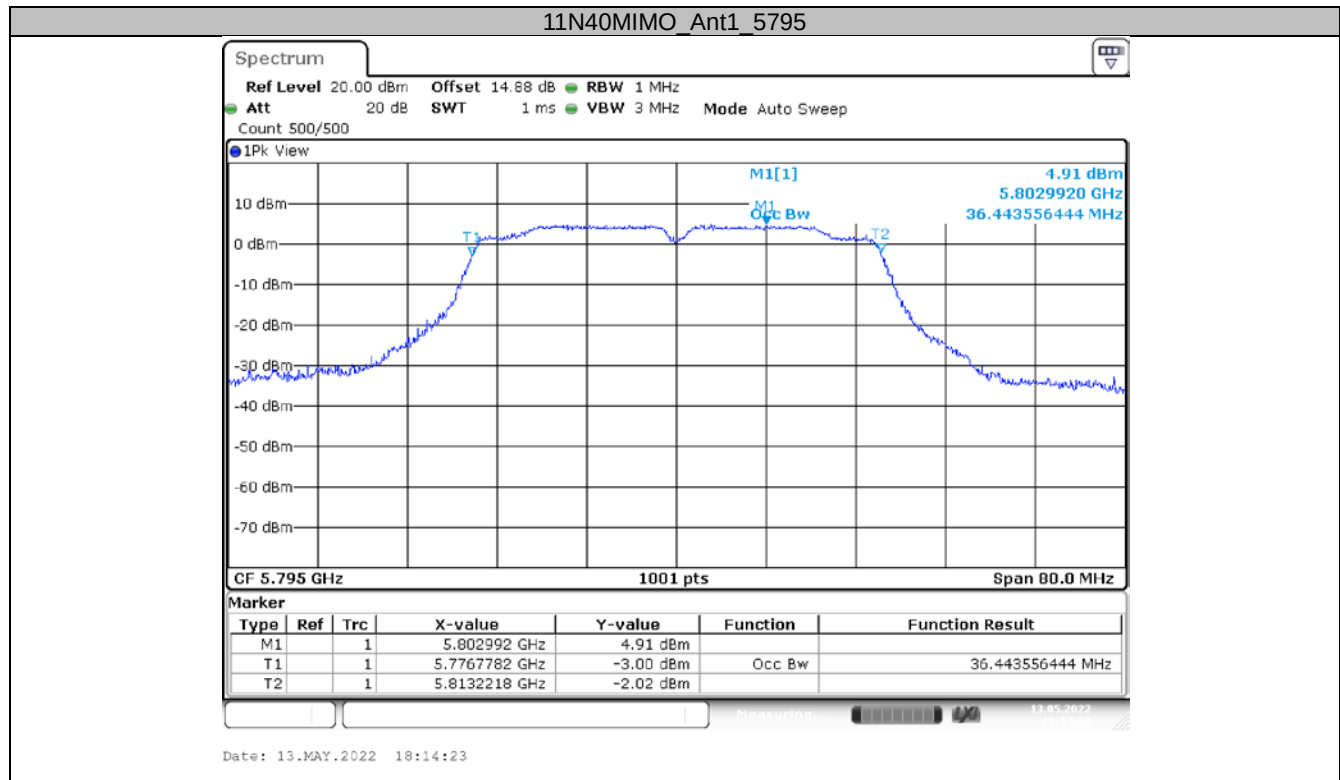


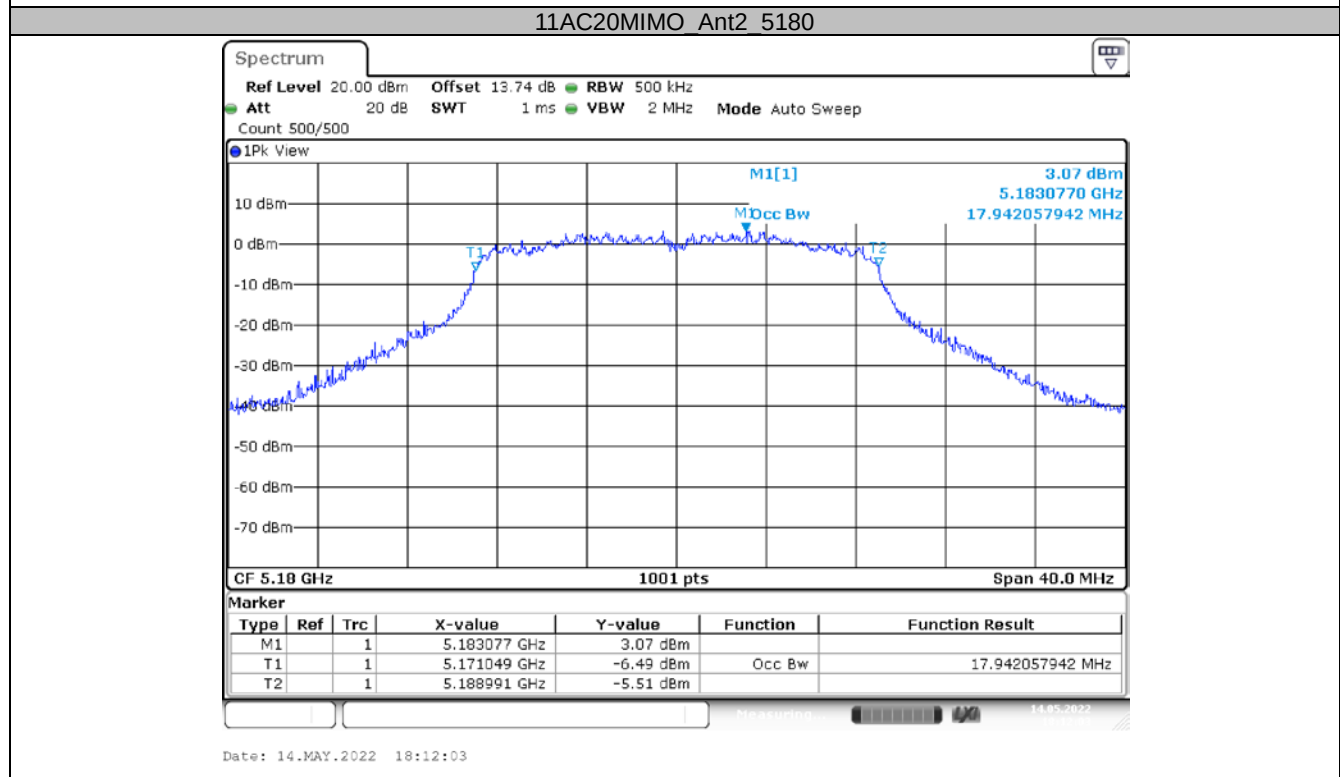
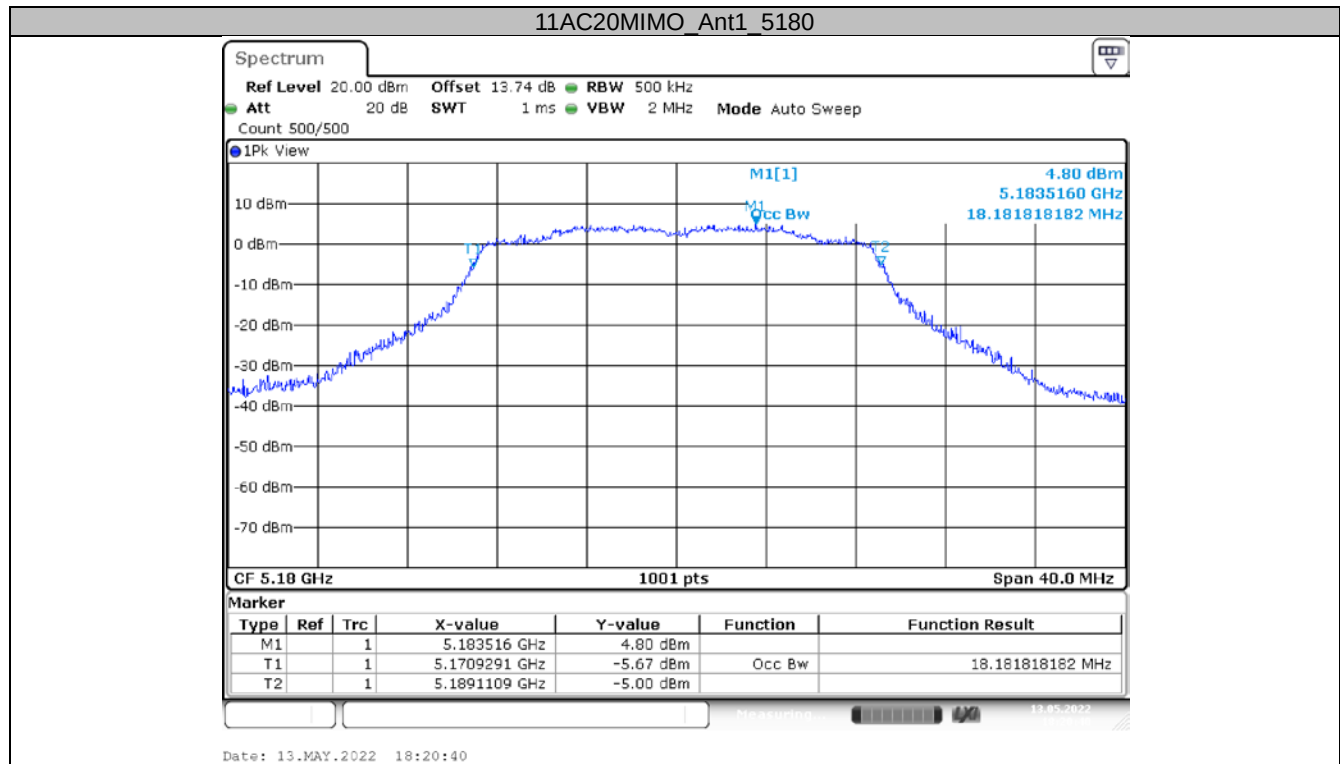


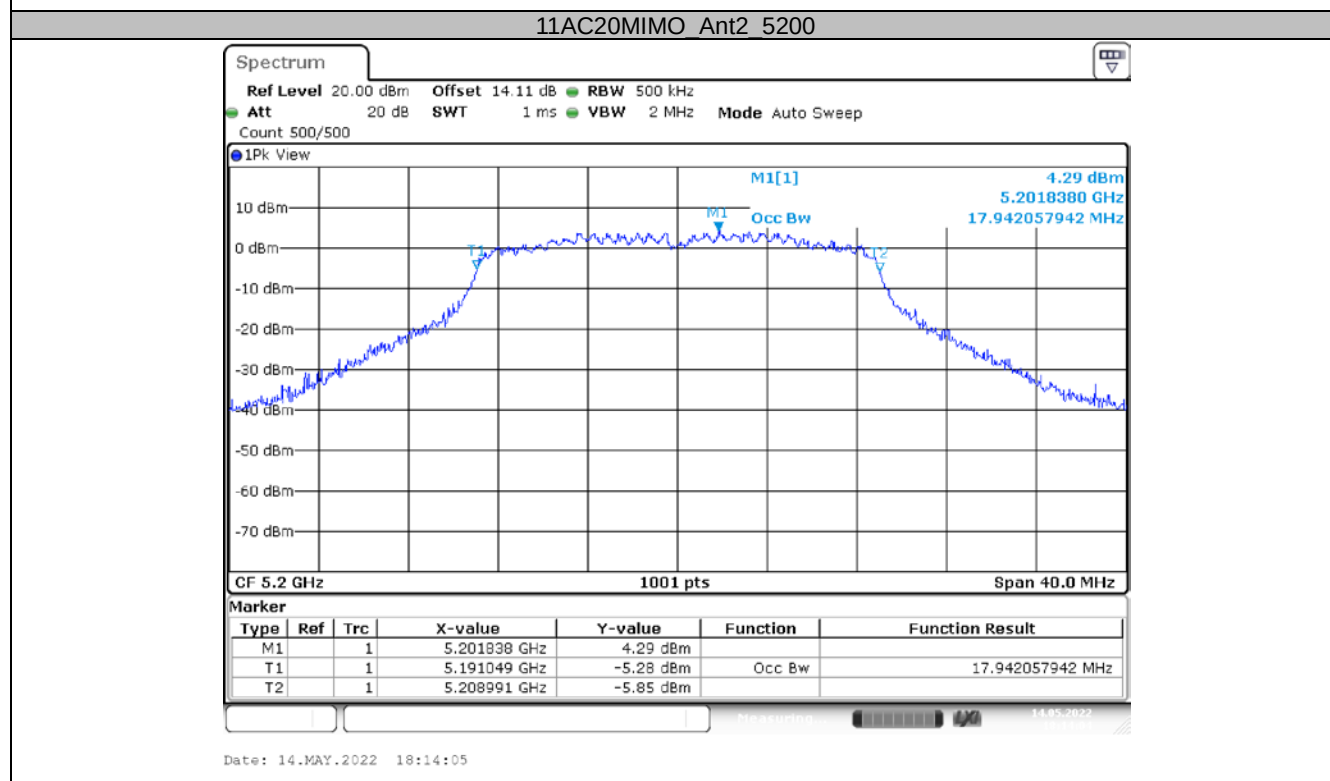
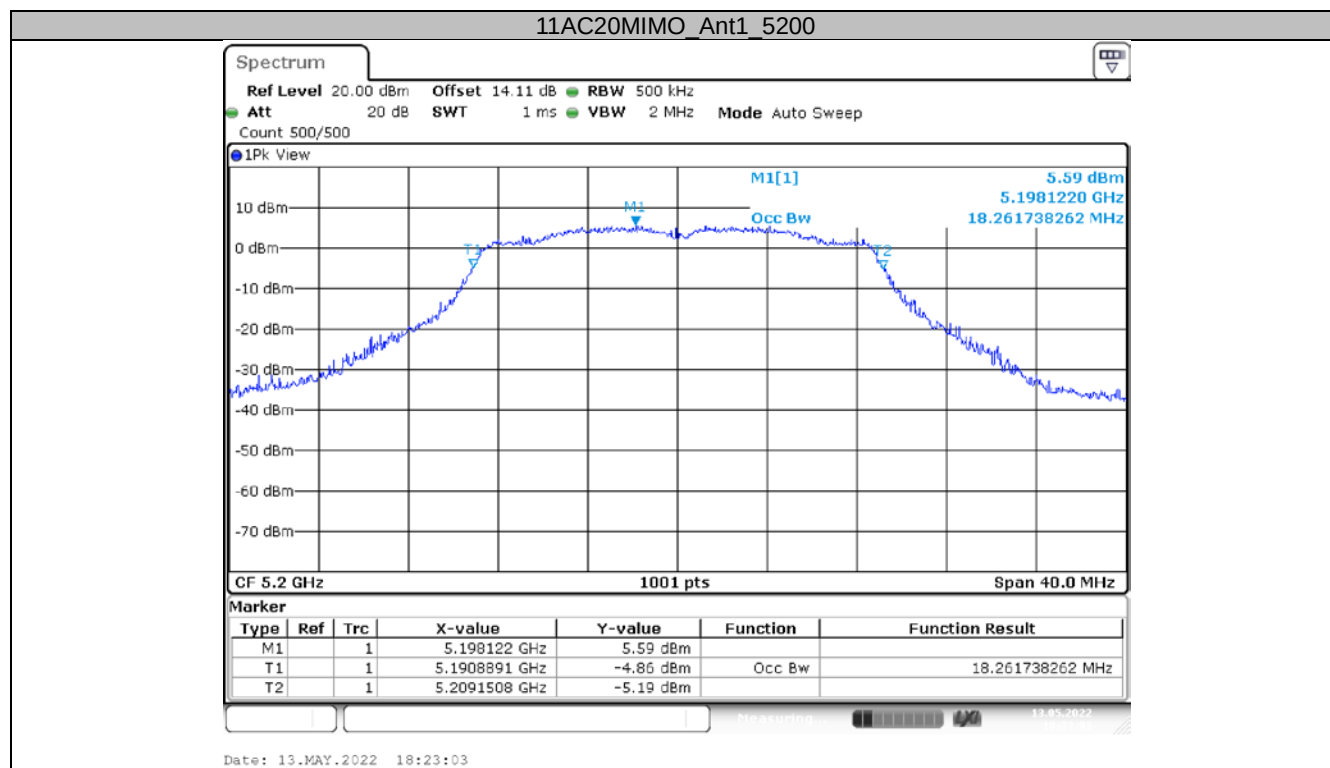


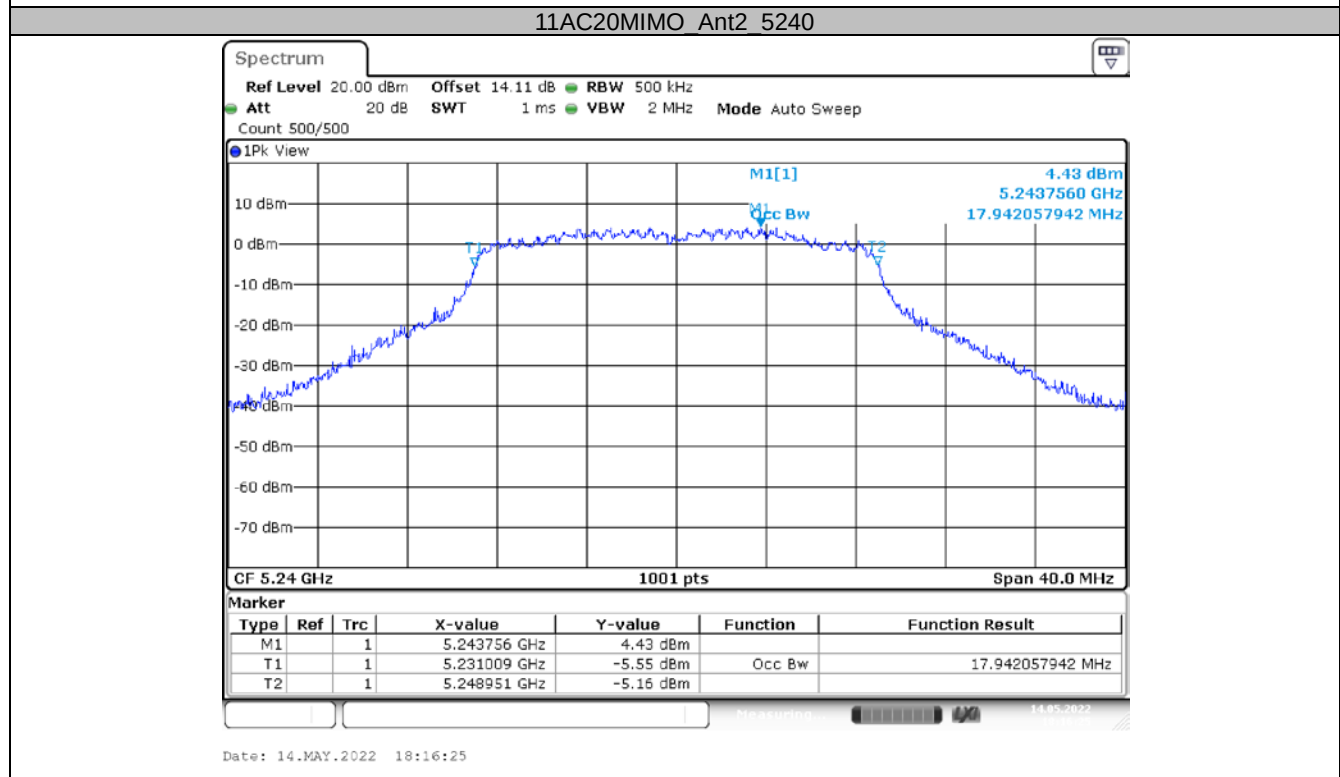
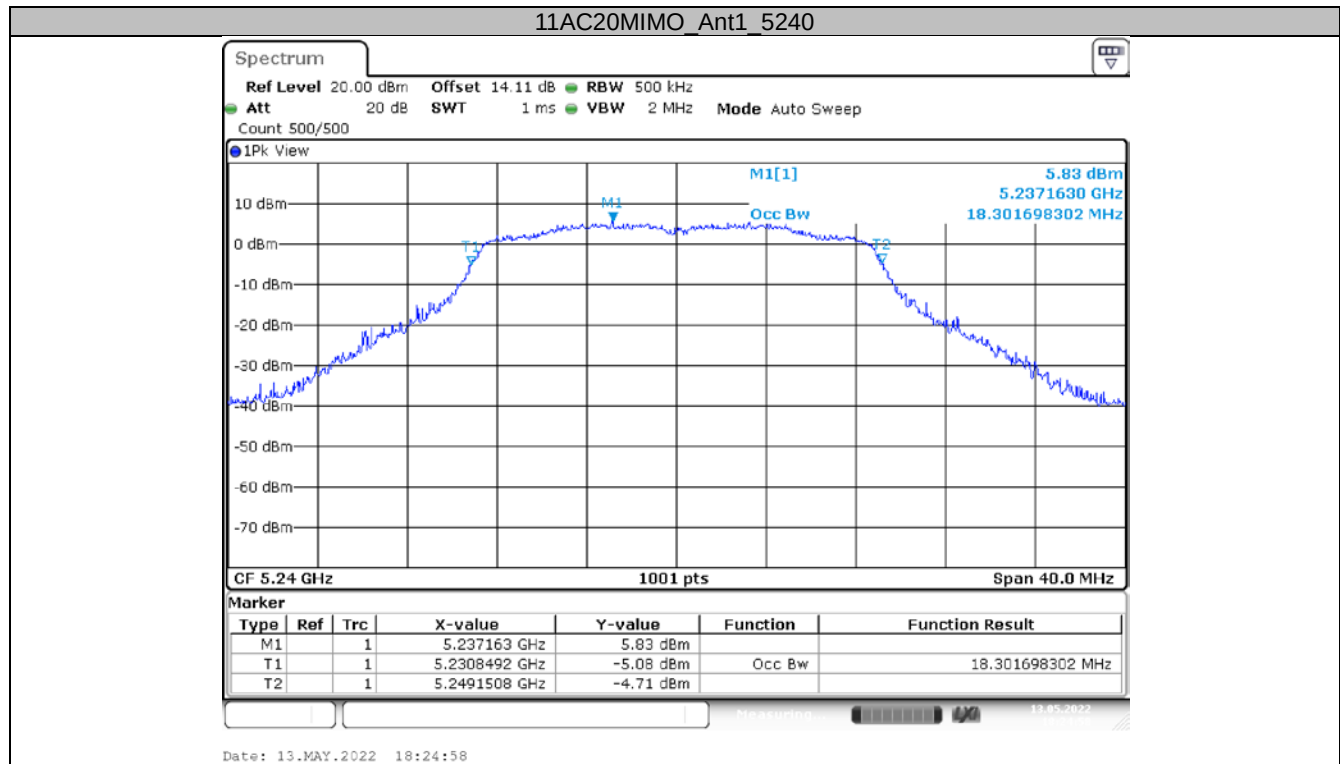




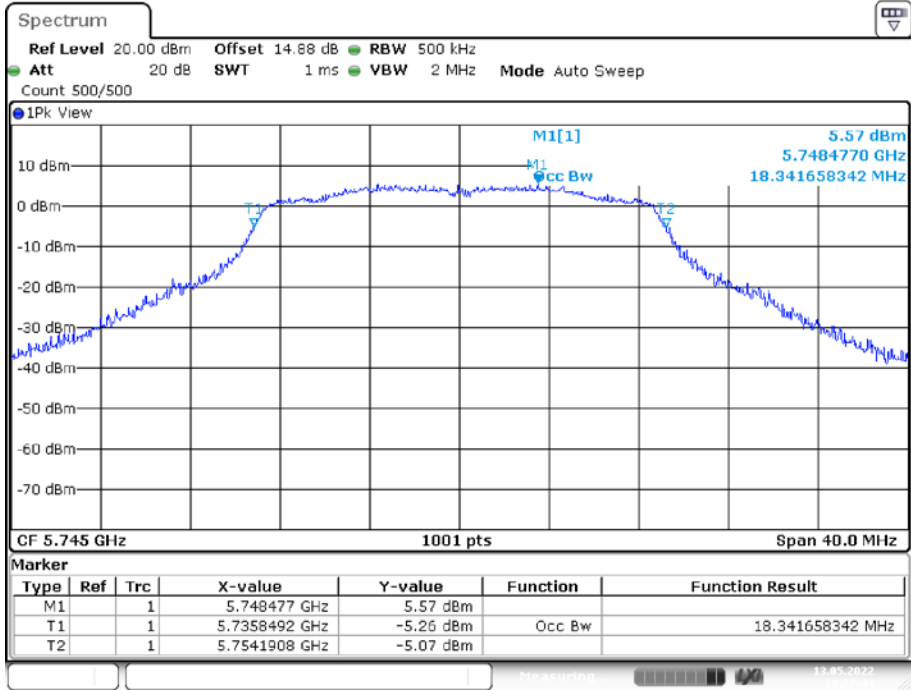






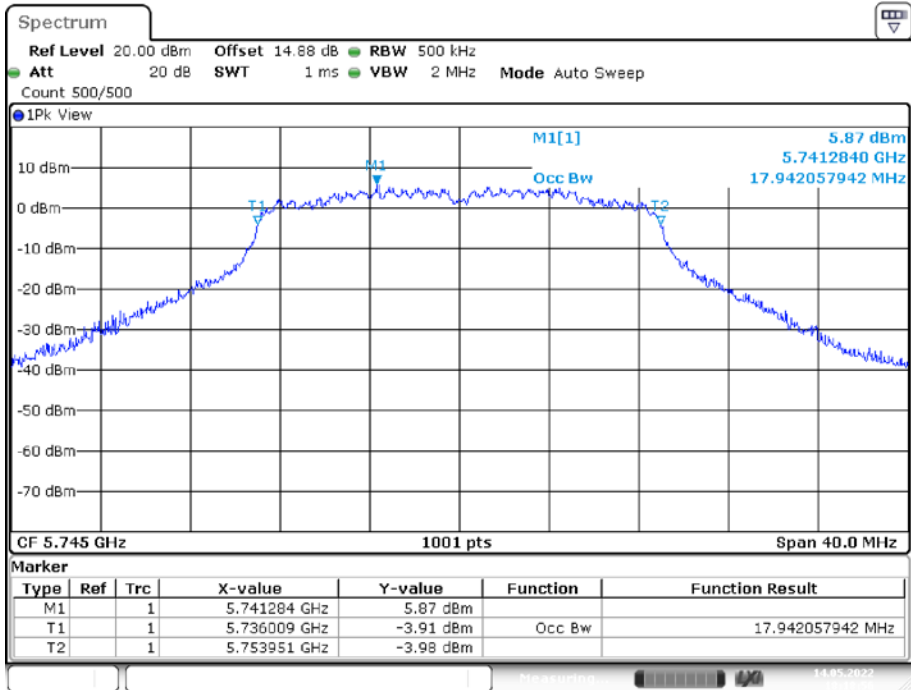


11AC20MIMO_Ant1_5745



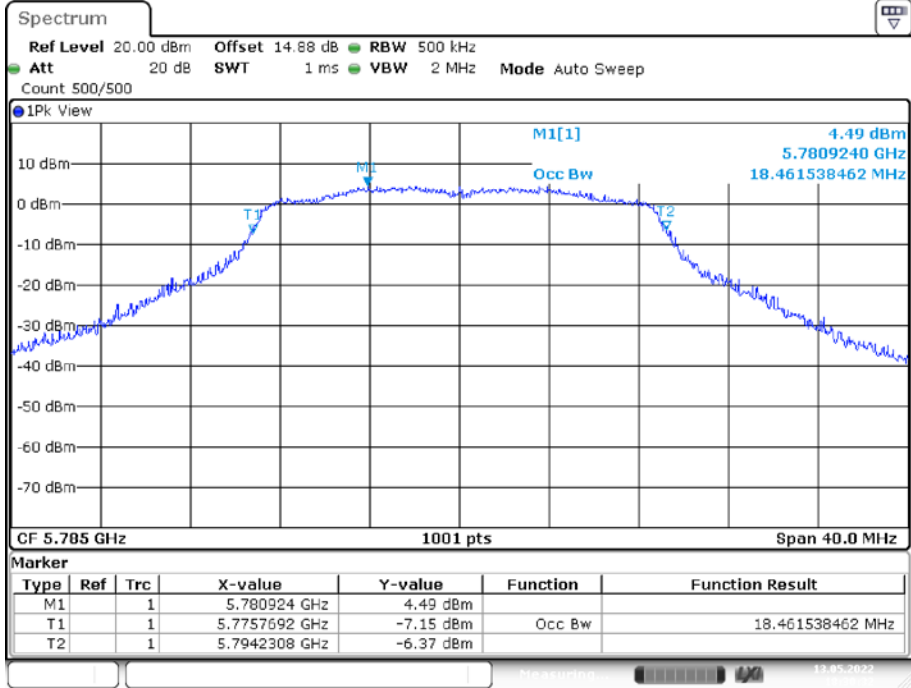
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11AC20MIMO_Ant2_5745



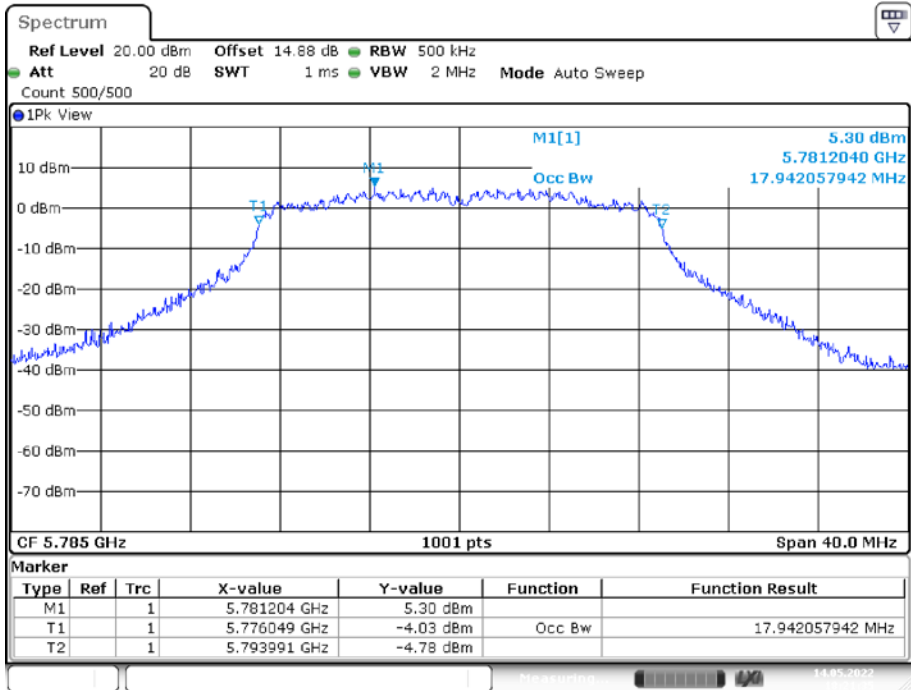
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11AC20MIMO_Ant1_5785



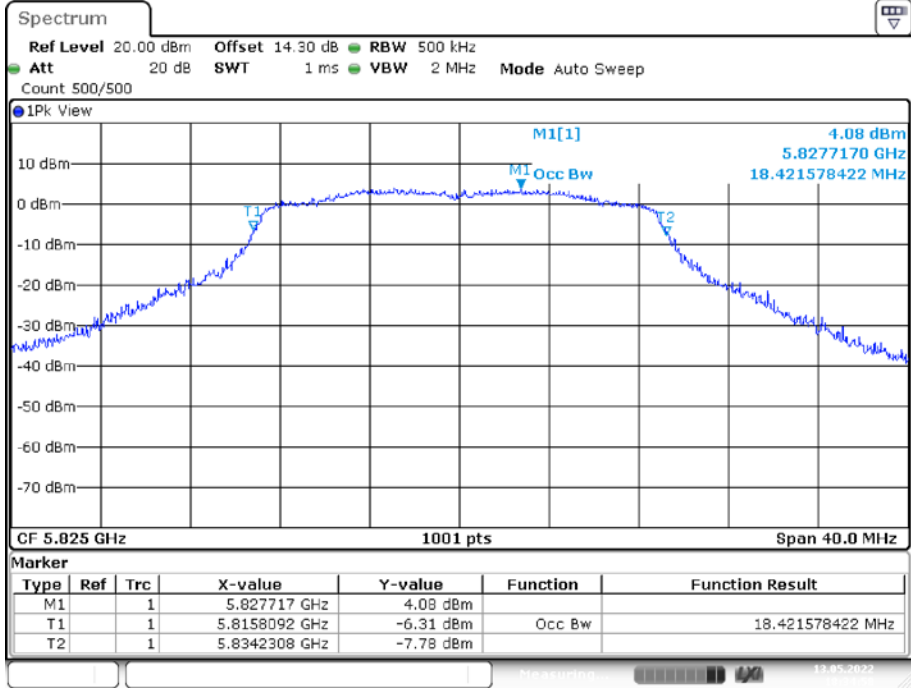
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11AC20MIMO_Ant2_5785



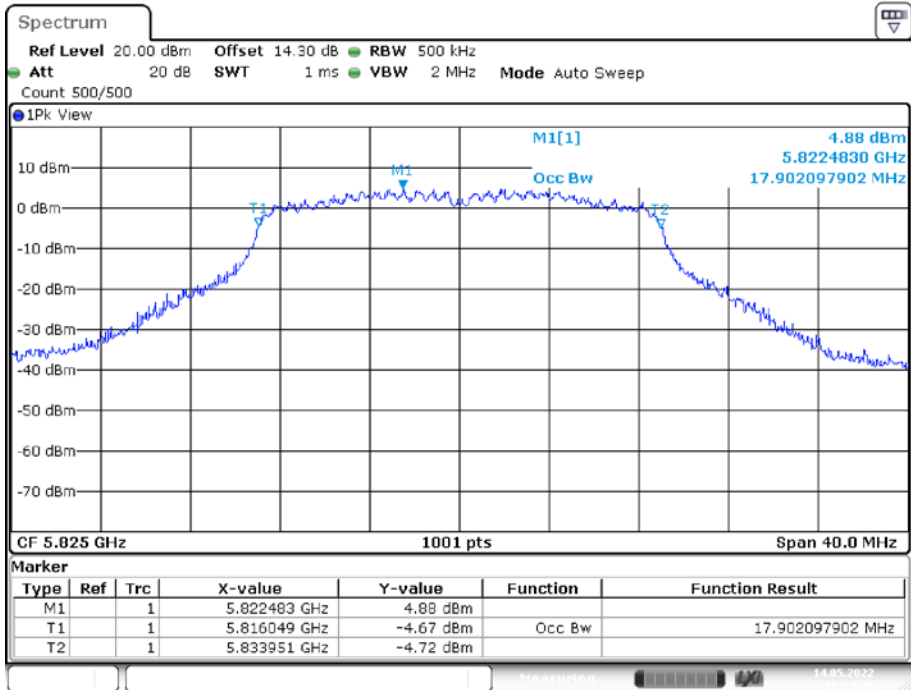
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11AC20MIMO_Ant1_5825

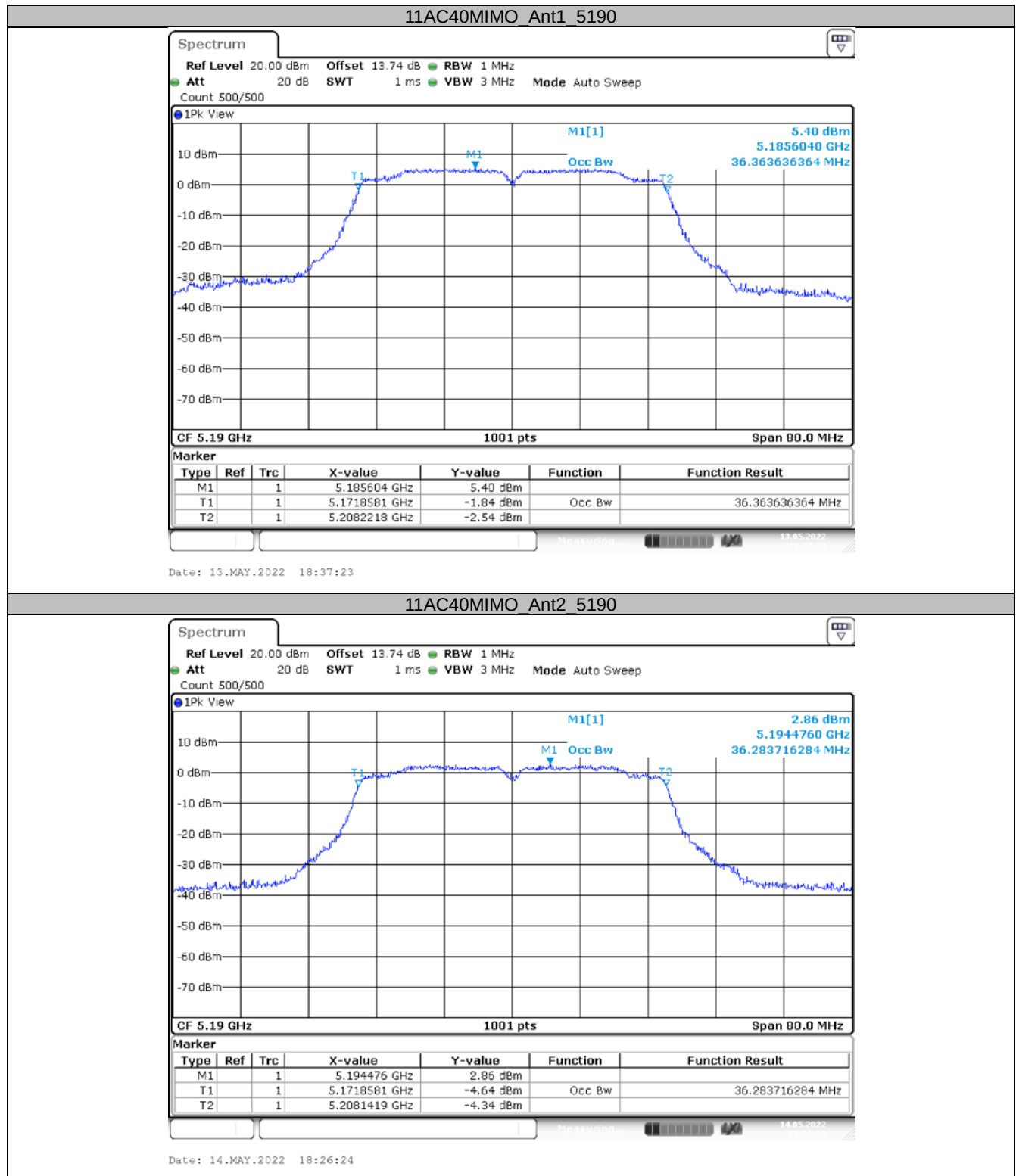


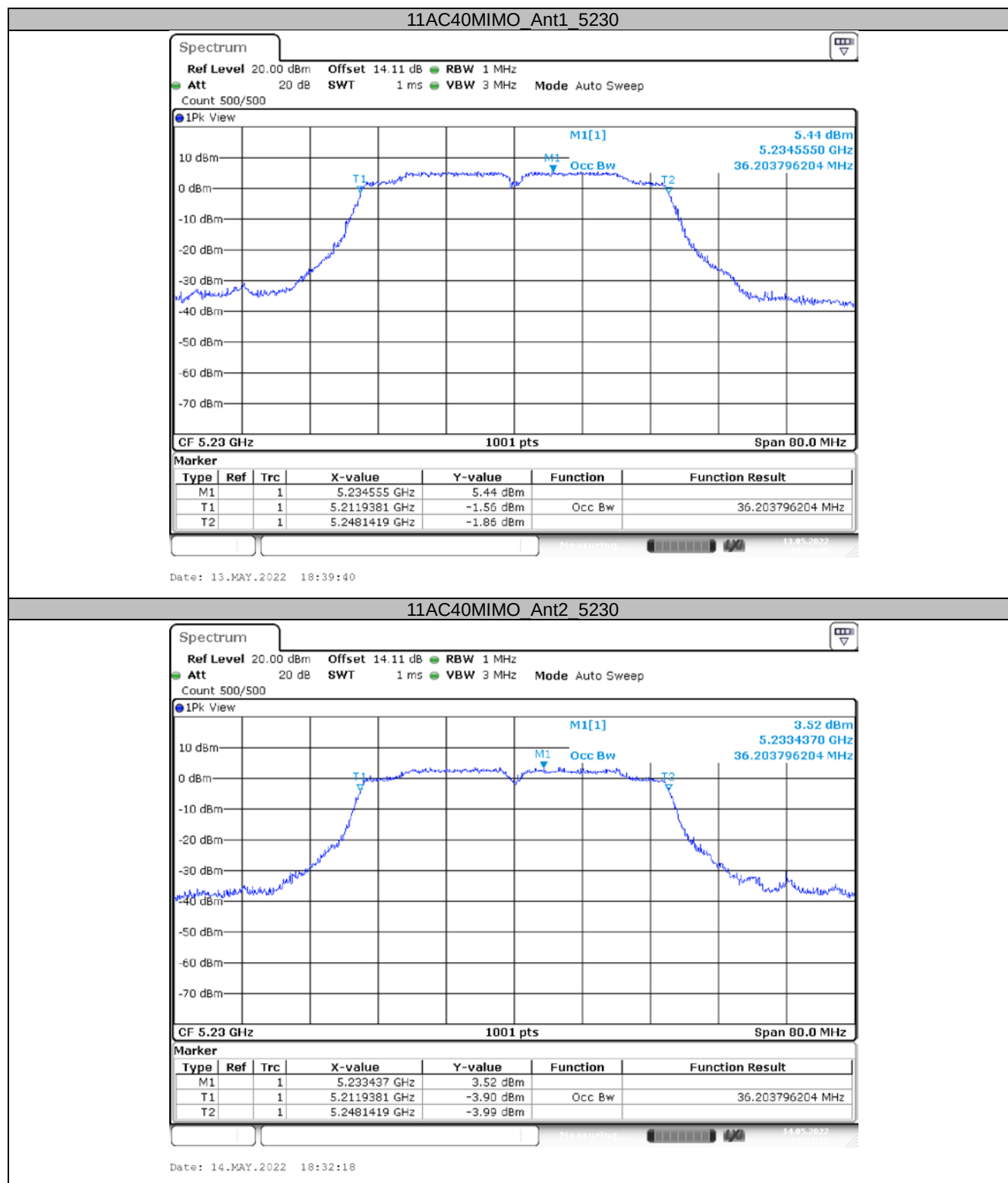
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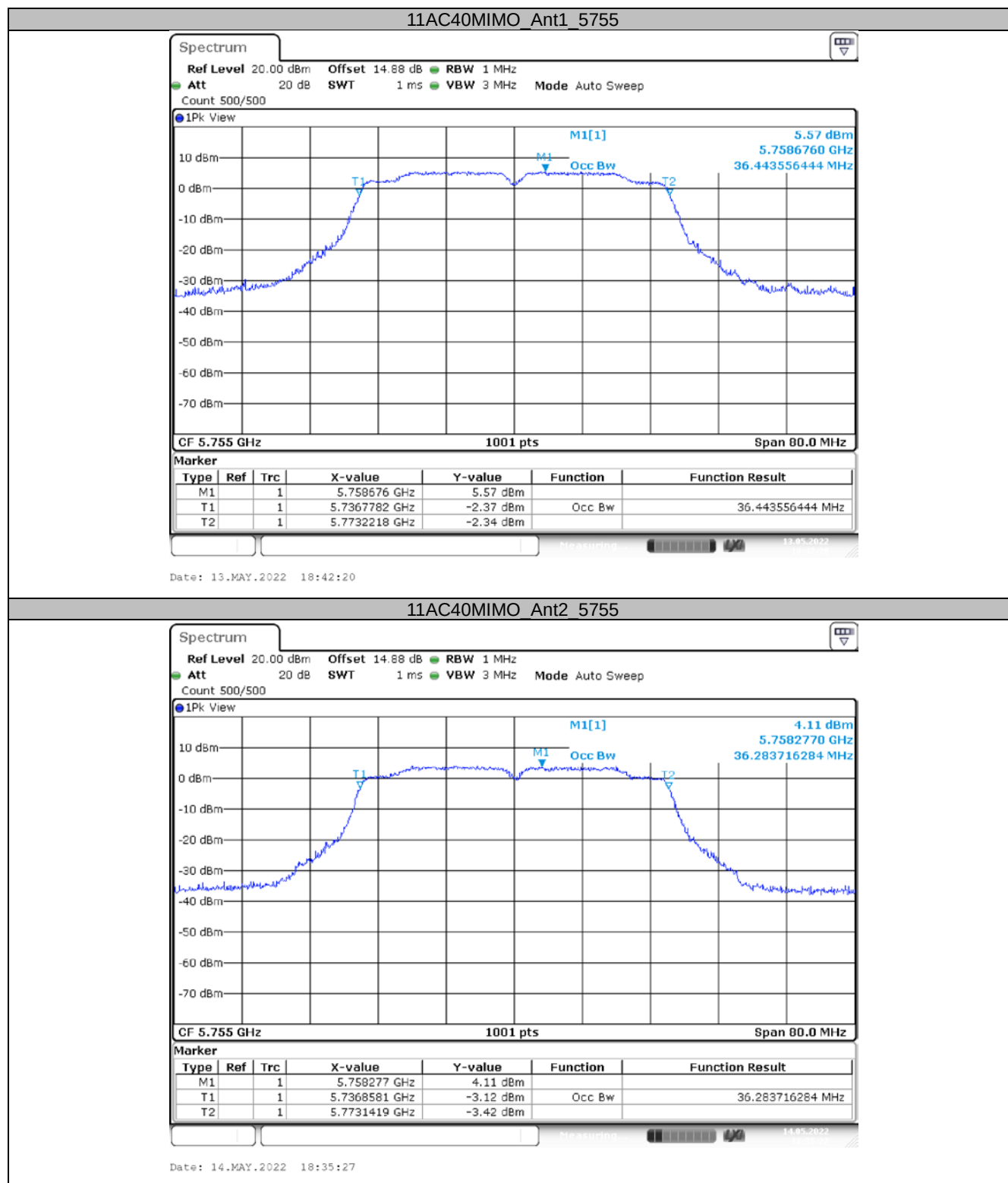
11AC20MIMO_Ant2_5825

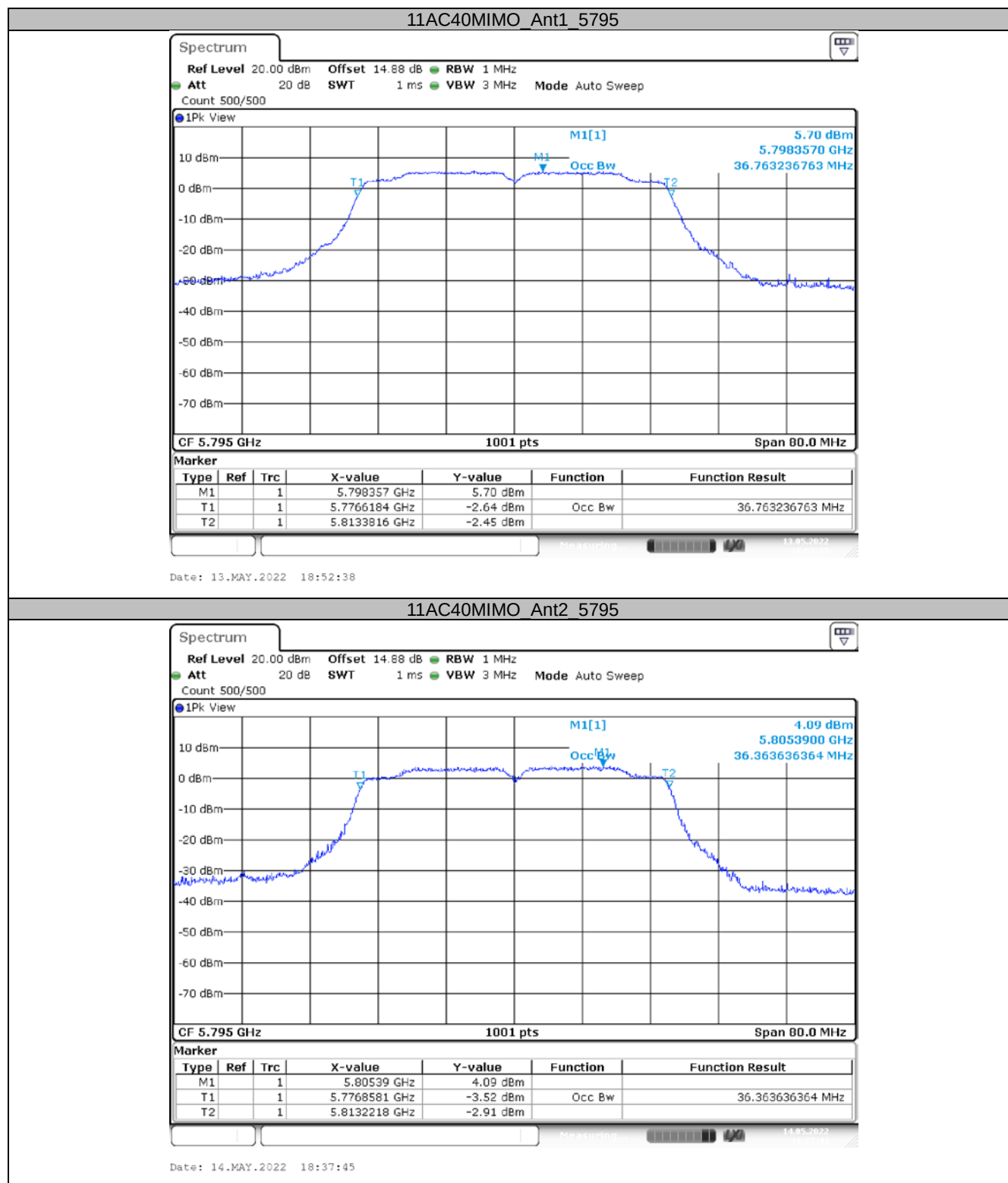


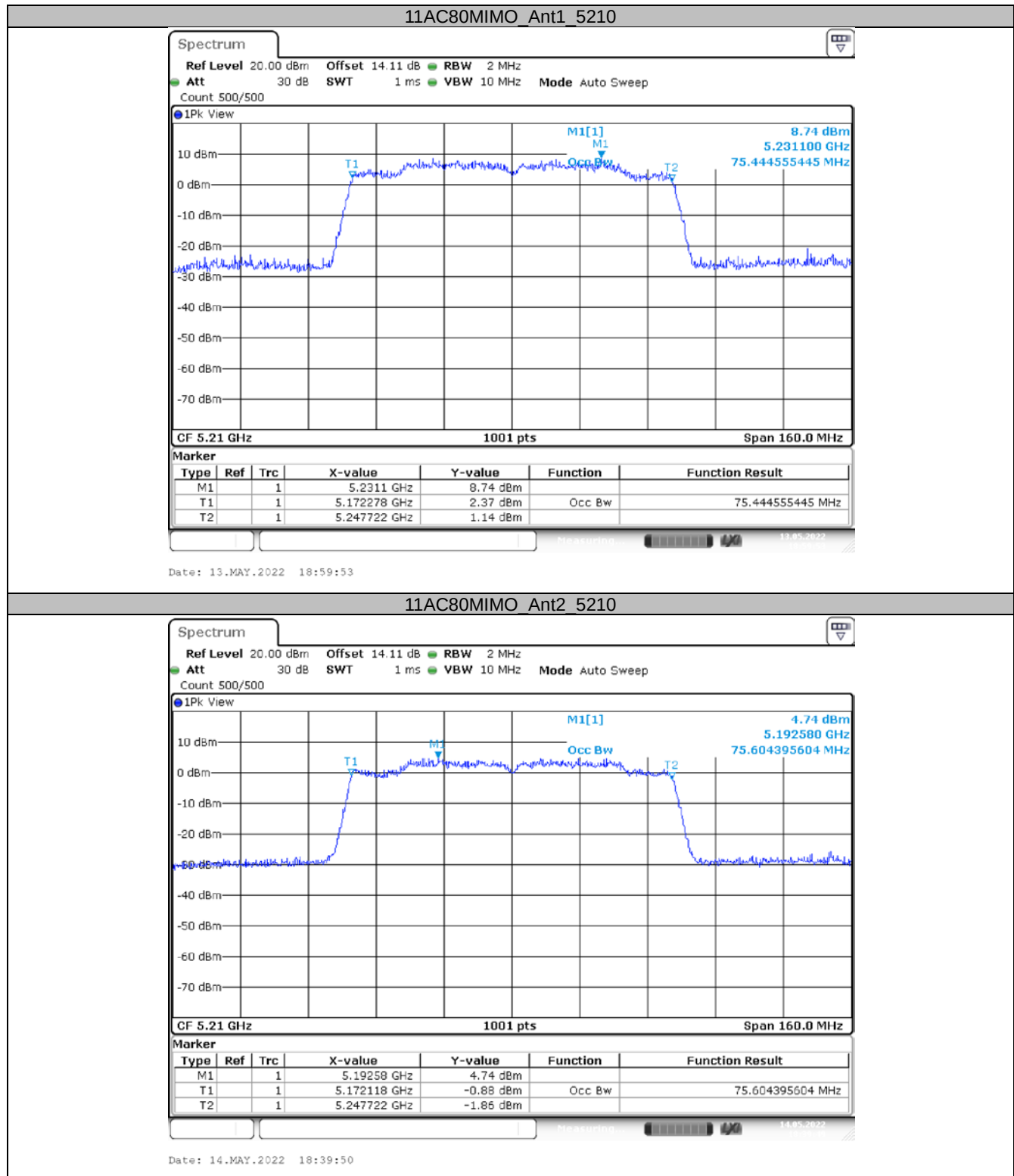
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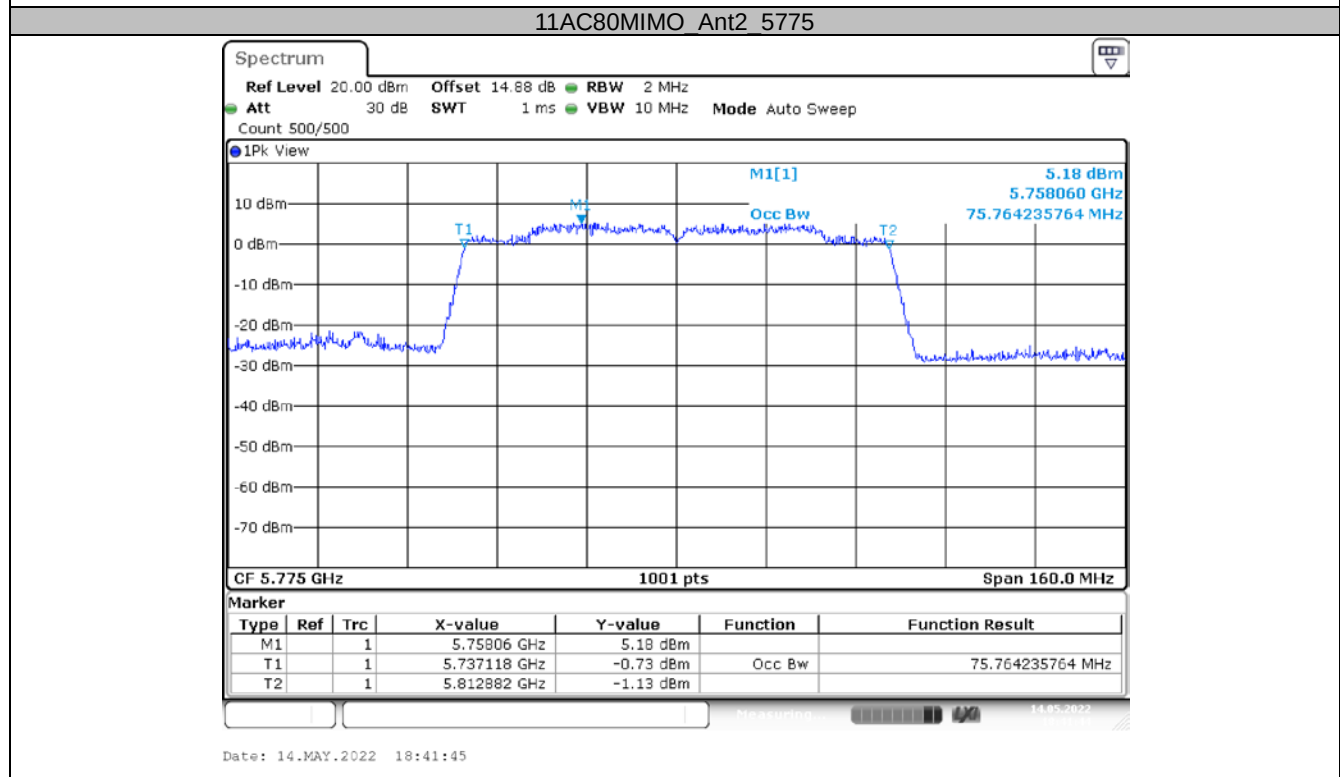
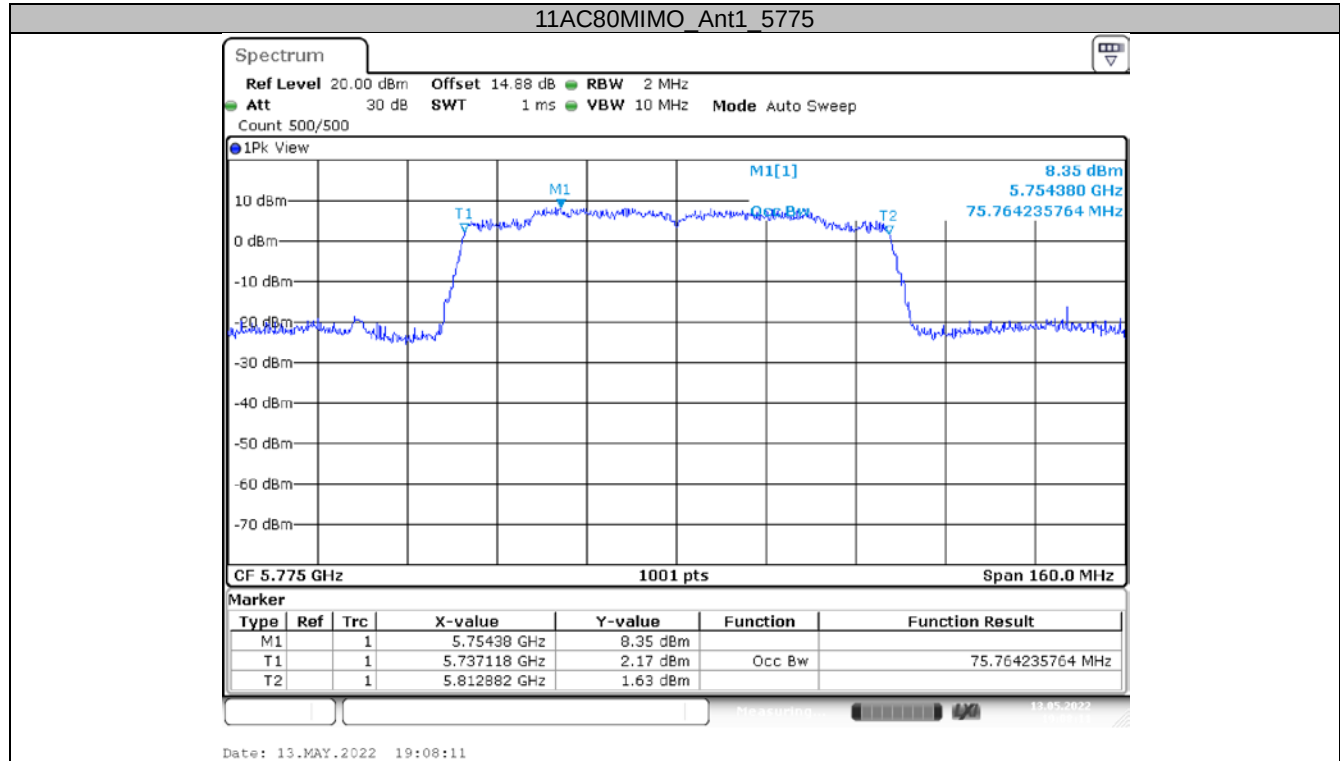










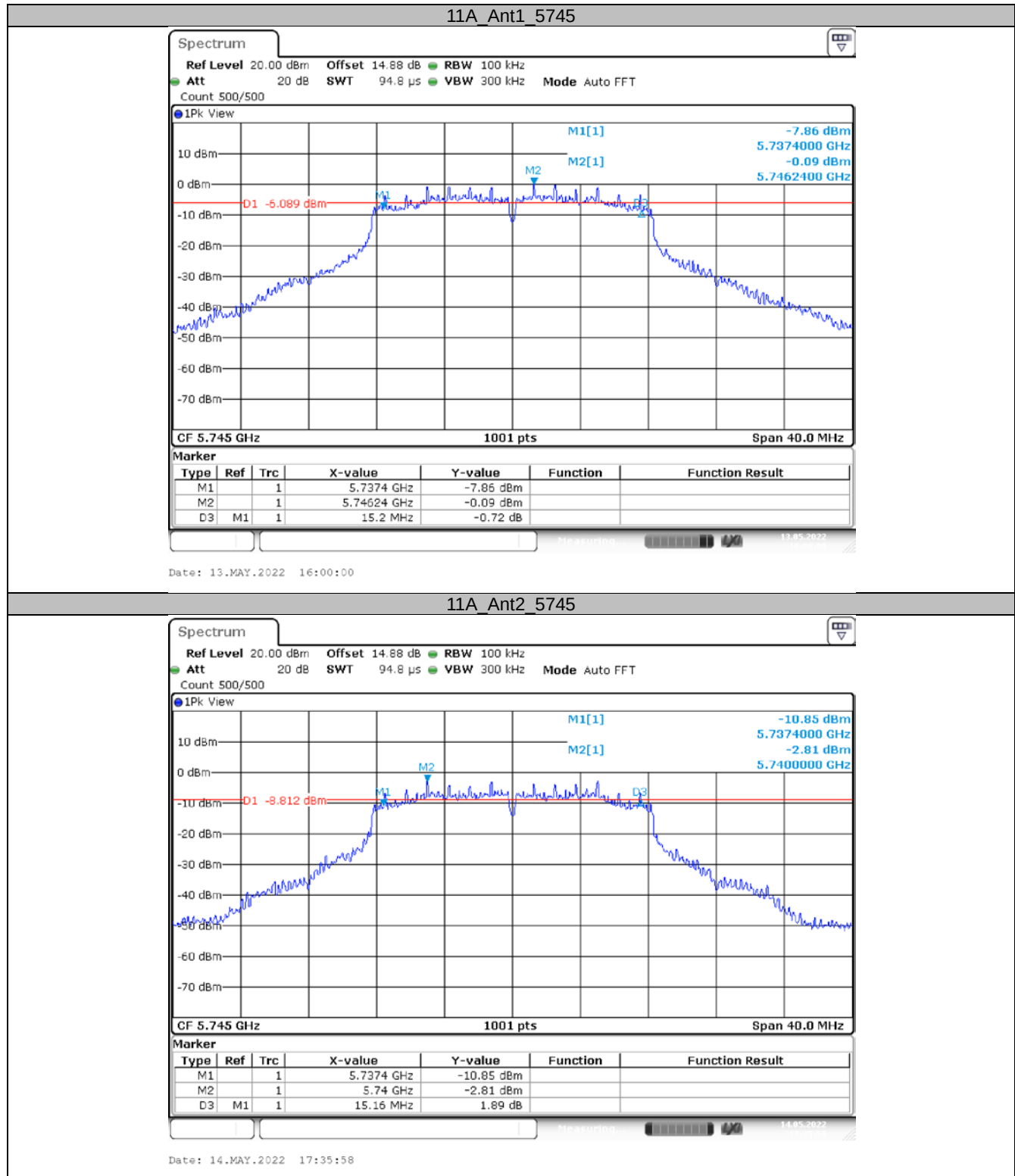


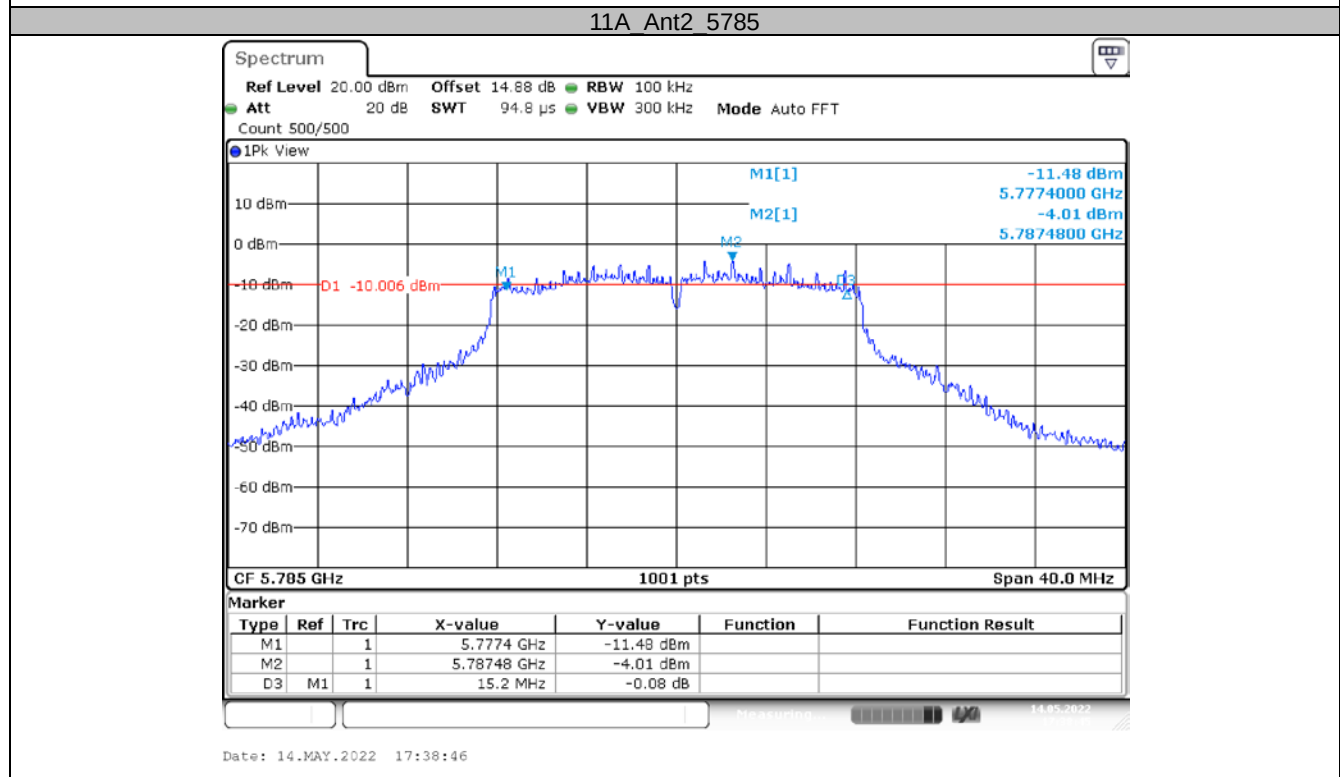
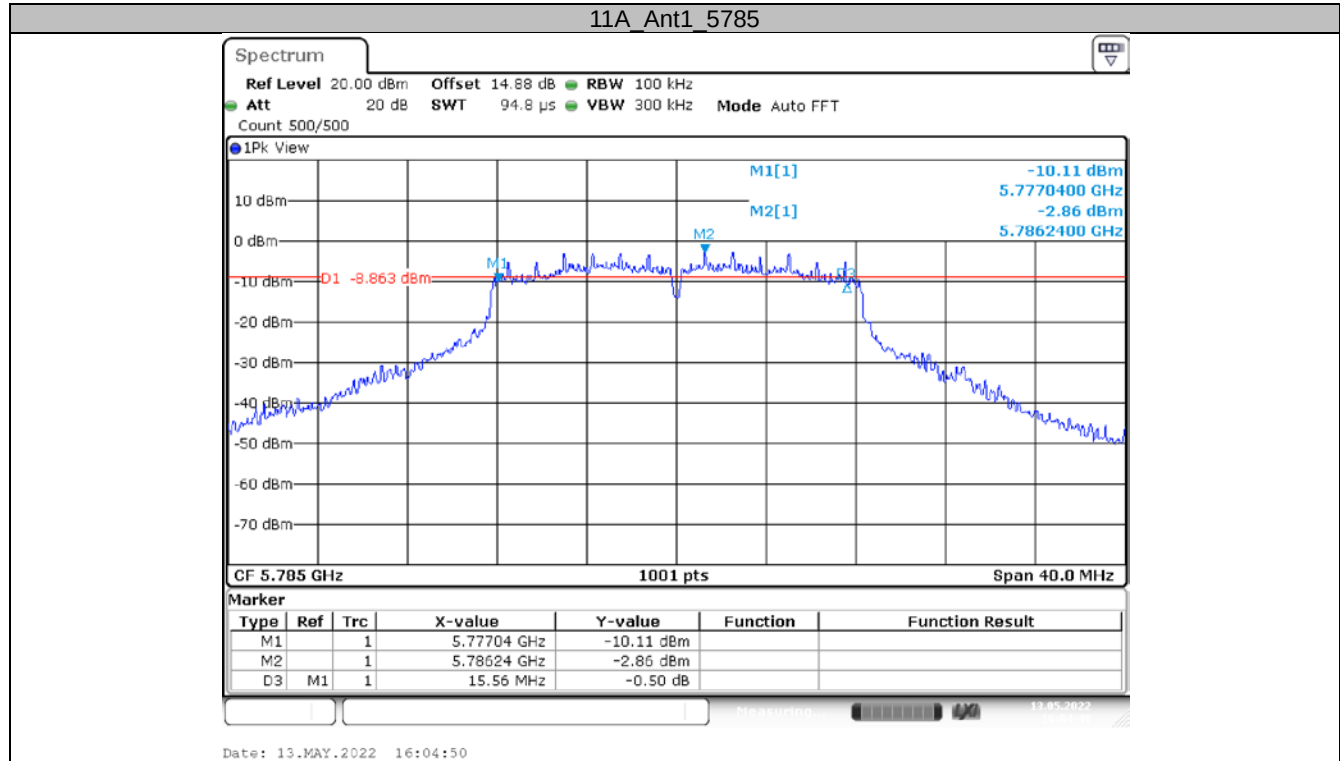
Appendix A3: Min emission bandwidth**Test Result**

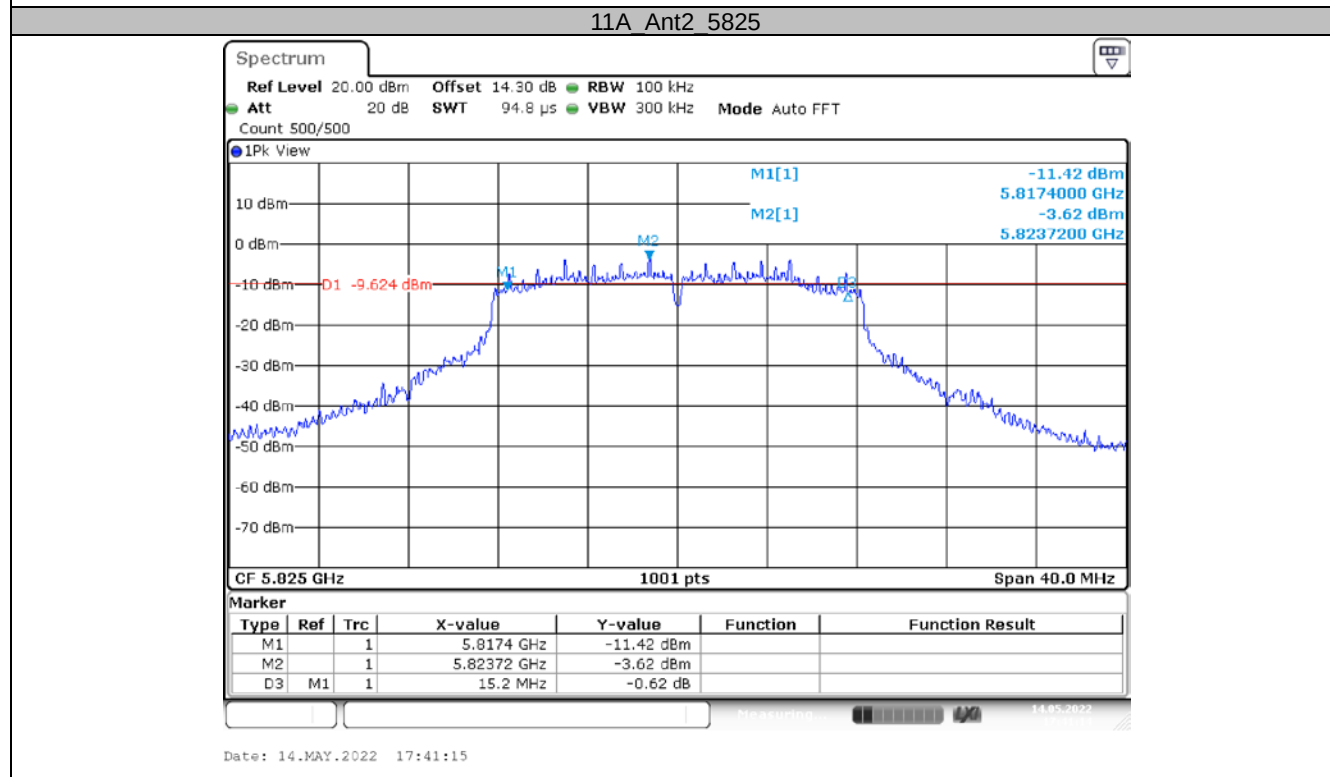
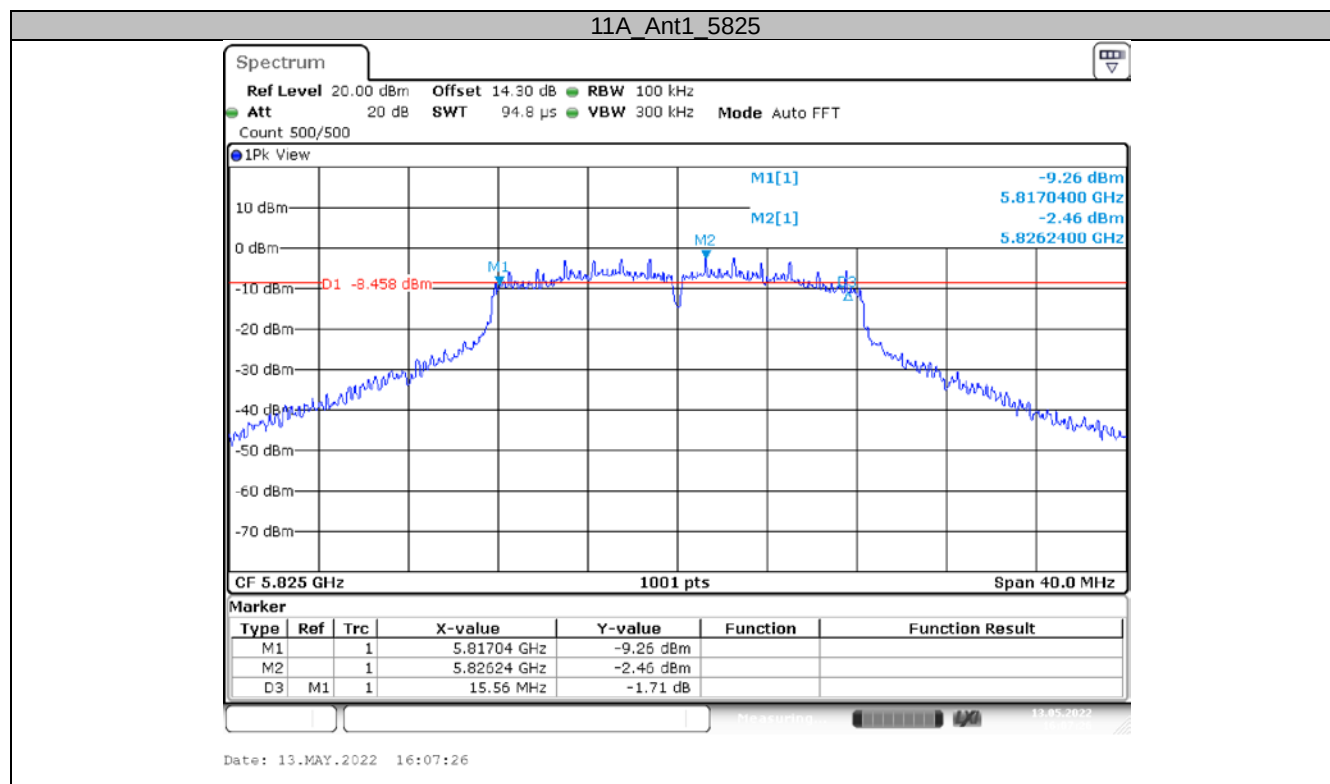
5725~5850 MHz:

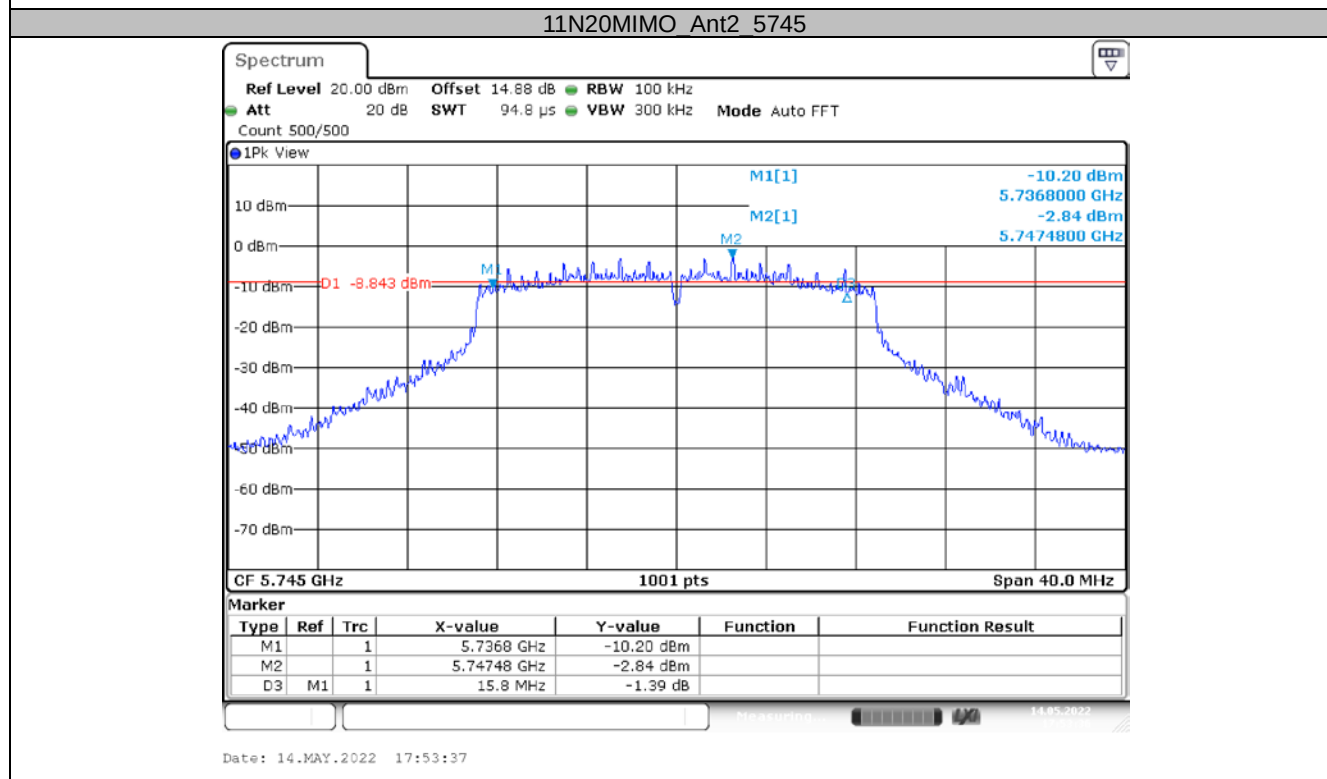
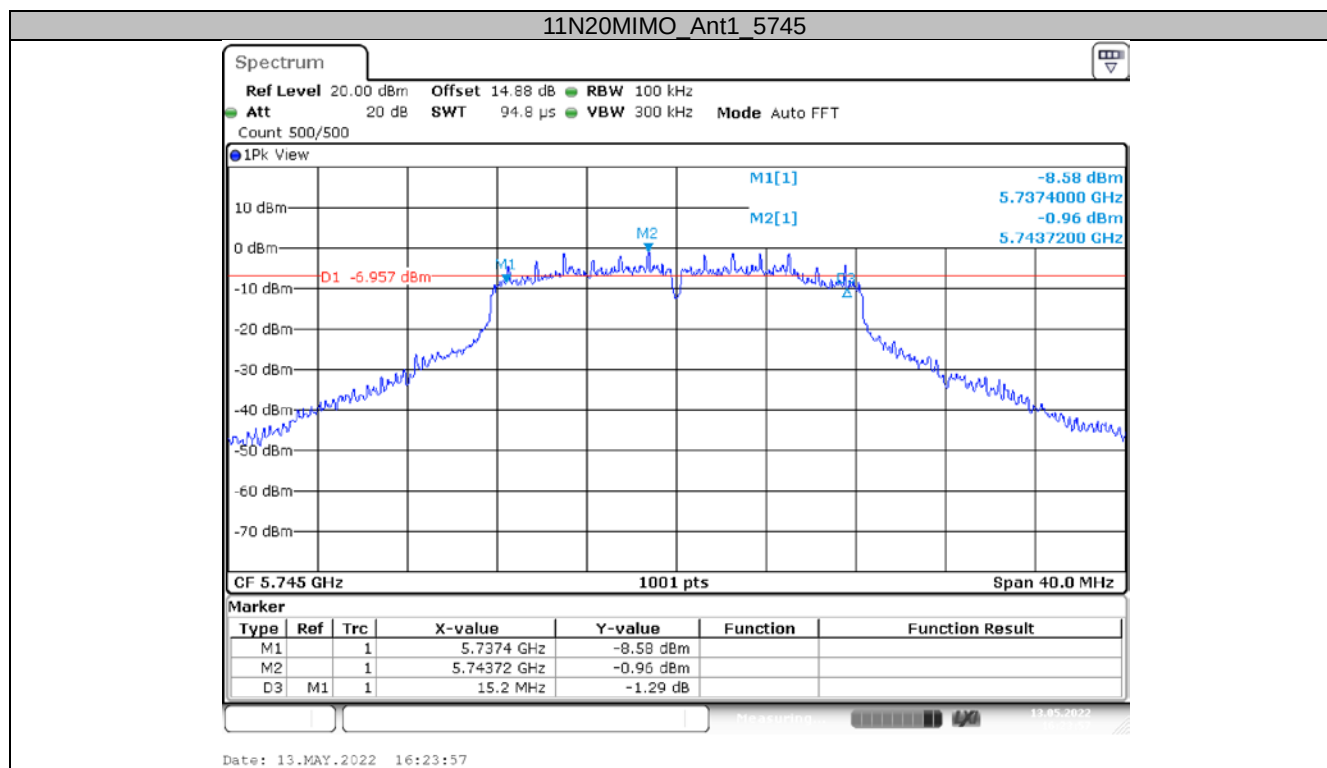
TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.200	5737.400	5752.600	0.5	PASS
	Ant2	5745	15.160	5737.400	5752.560	0.5	PASS
	Ant1	5785	15.560	5777.040	5792.600	0.5	PASS
	Ant2	5785	15.200	5777.400	5792.600	0.5	PASS
	Ant1	5825	15.560	5817.040	5832.600	0.5	PASS
	Ant2	5825	15.200	5817.400	5832.600	0.5	PASS
11N20MIMO	Ant1	5745	15.200	5737.400	5752.600	0.5	PASS
	Ant2	5745	15.800	5736.800	5752.600	0.5	PASS
	Ant1	5785	16.400	5776.800	5793.200	0.5	PASS
	Ant2	5785	16.400	5776.800	5793.200	0.5	PASS
	Ant1	5825	15.400	5817.200	5832.600	0.5	PASS
	Ant2	5825	16.360	5816.800	5833.160	0.5	PASS
11N40MIMO	Ant1	5755	35.200	5737.400	5772.600	0.5	PASS
	Ant2	5755	35.200	5737.400	5772.600	0.5	PASS
	Ant1	5795	35.280	5777.400	5812.680	0.5	PASS
	Ant2	5795	35.280	5777.400	5812.680	0.5	PASS
11AC20MIMO	Ant1	5745	15.200	5737.400	5752.600	0.5	PASS
	Ant2	5745	15.760	5737.400	5753.160	0.5	PASS
	Ant1	5785	15.200	5777.400	5792.600	0.5	PASS
	Ant2	5785	15.800	5776.800	5792.600	0.5	PASS
	Ant1	5825	15.200	5817.400	5832.600	0.5	PASS
	Ant2	5825	16.360	5816.800	5833.160	0.5	PASS
11AC40MIMO	Ant1	5755	35.200	5737.400	5772.600	0.5	PASS
	Ant2	5755	35.200	5737.400	5772.600	0.5	PASS
	Ant1	5795	35.280	5777.400	5812.680	0.5	PASS
	Ant2	5795	35.280	5777.400	5812.680	0.5	PASS
11AC80MIMO	Ant1	5775	74.240	5738.520	5812.760	0.5	PASS
	Ant2	5775	71.680	5738.520	5810.200	0.5	PASS

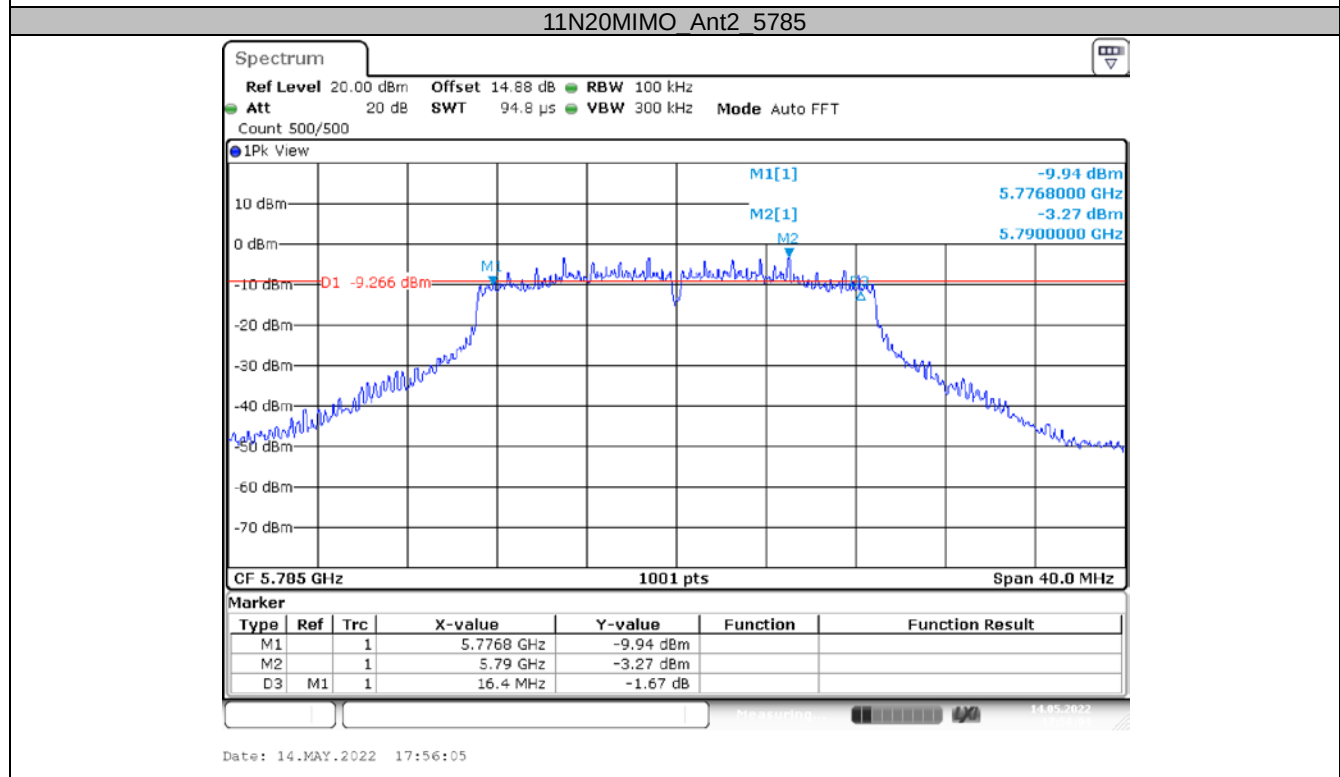
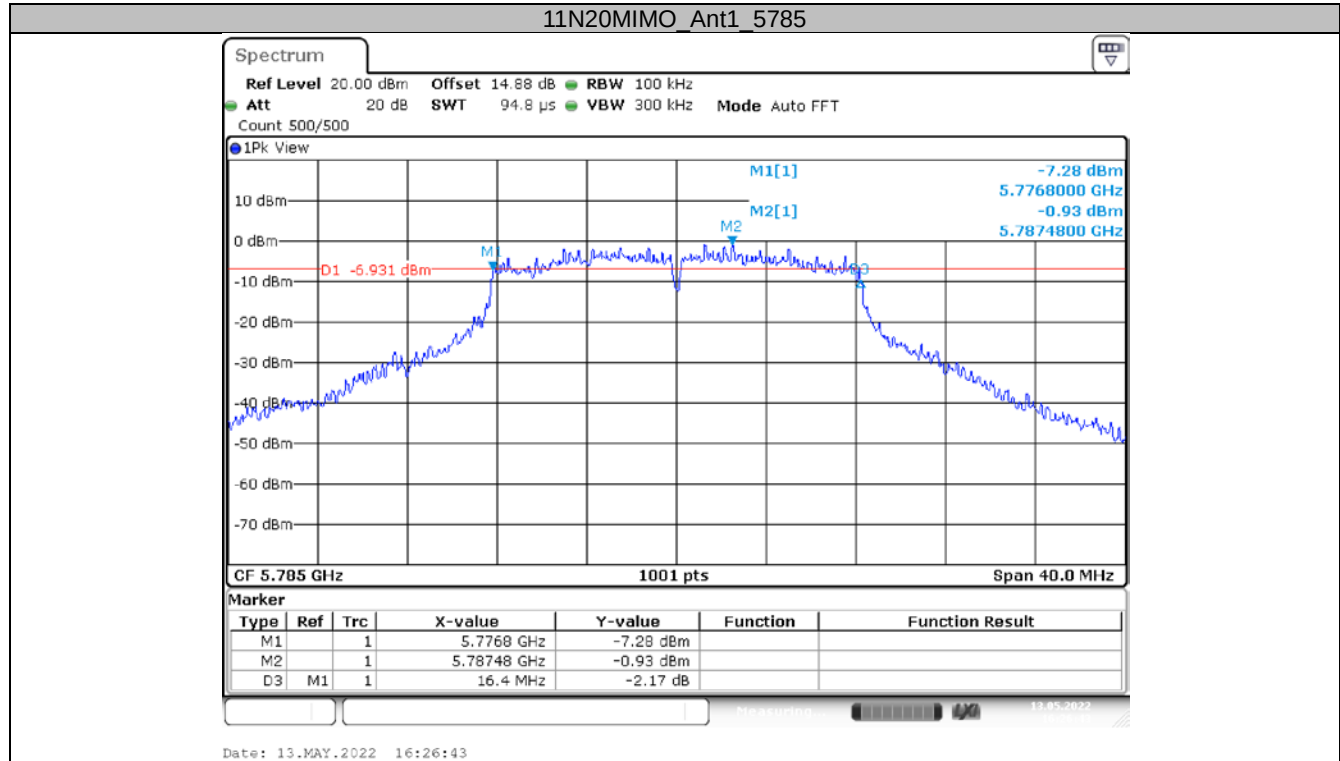
Test Graphs

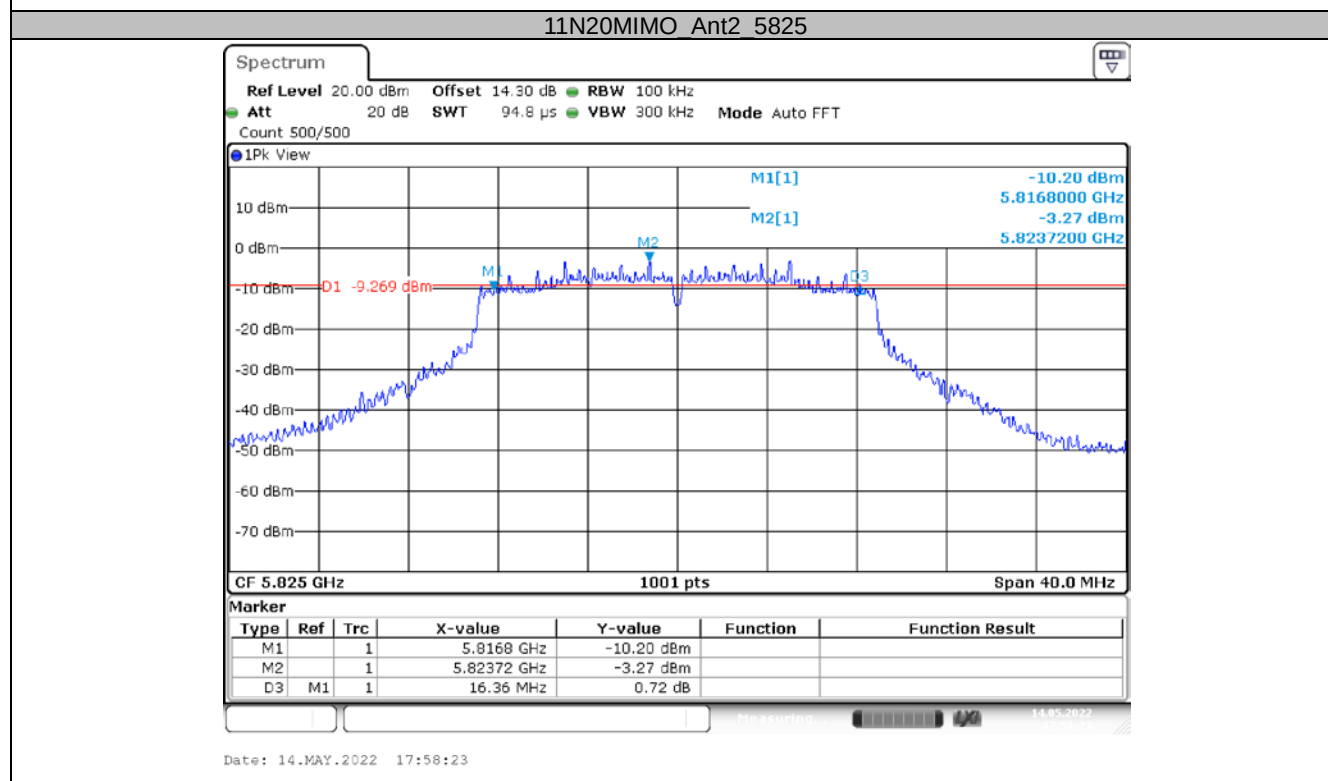
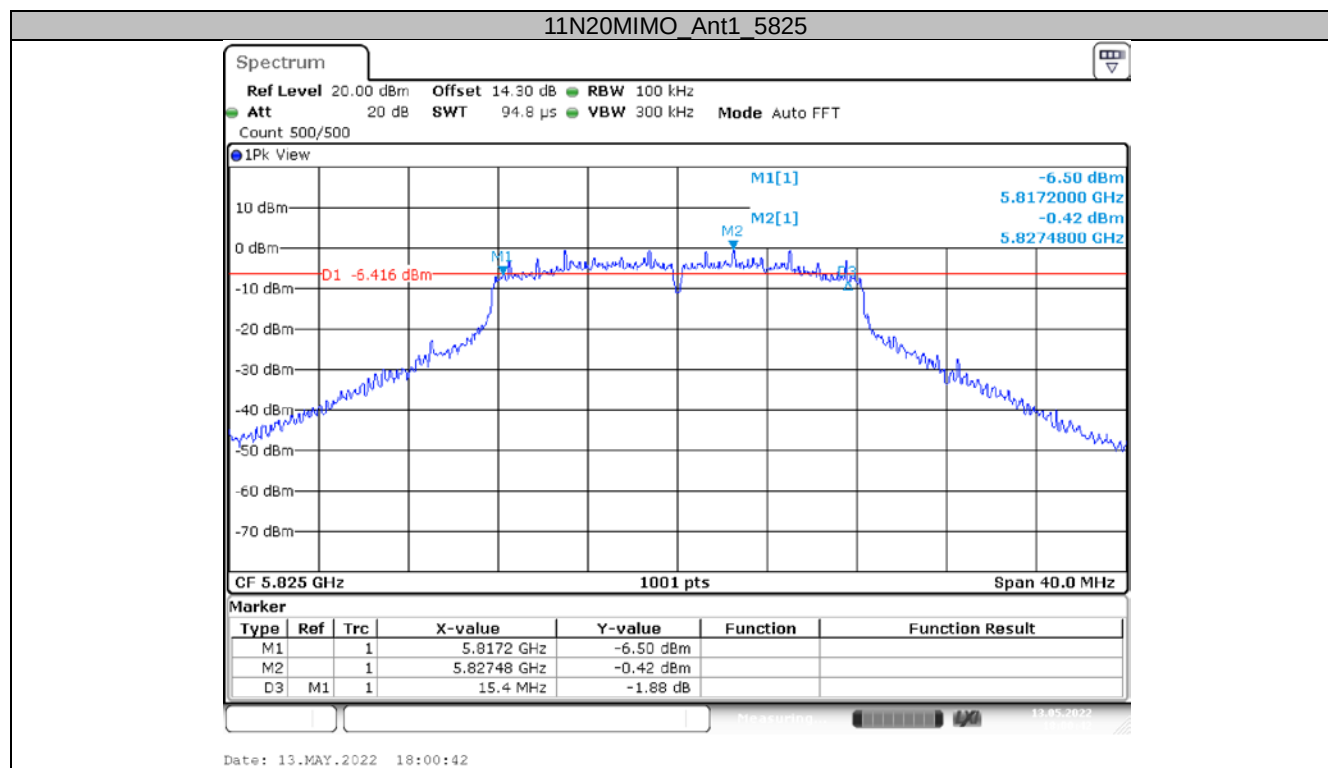


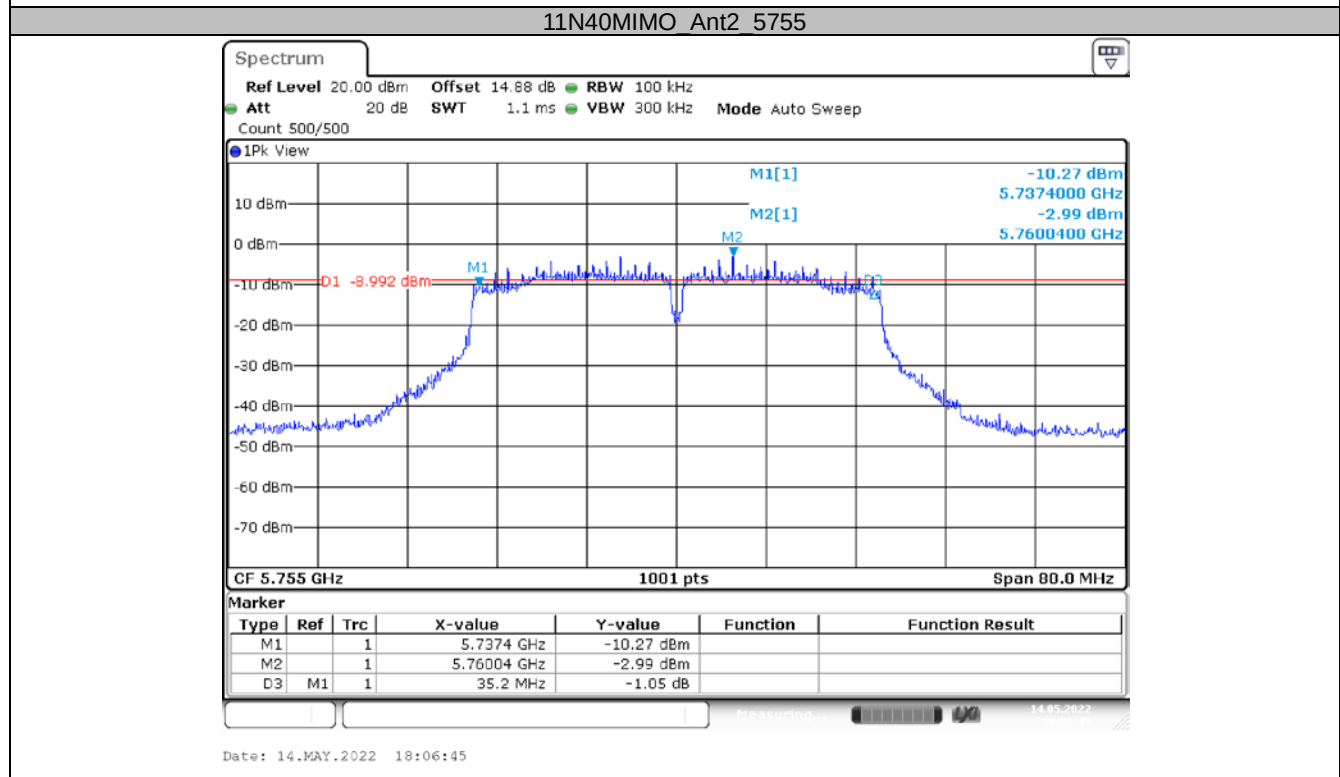
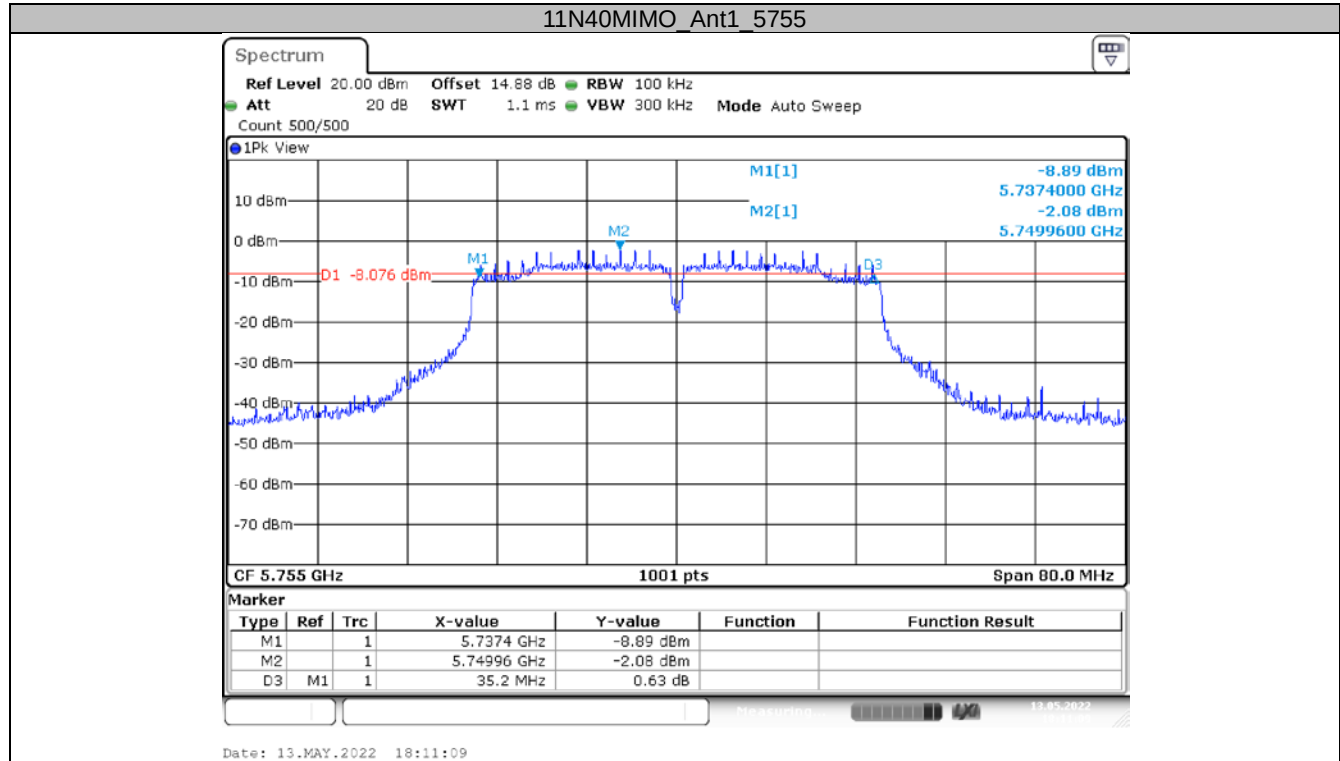


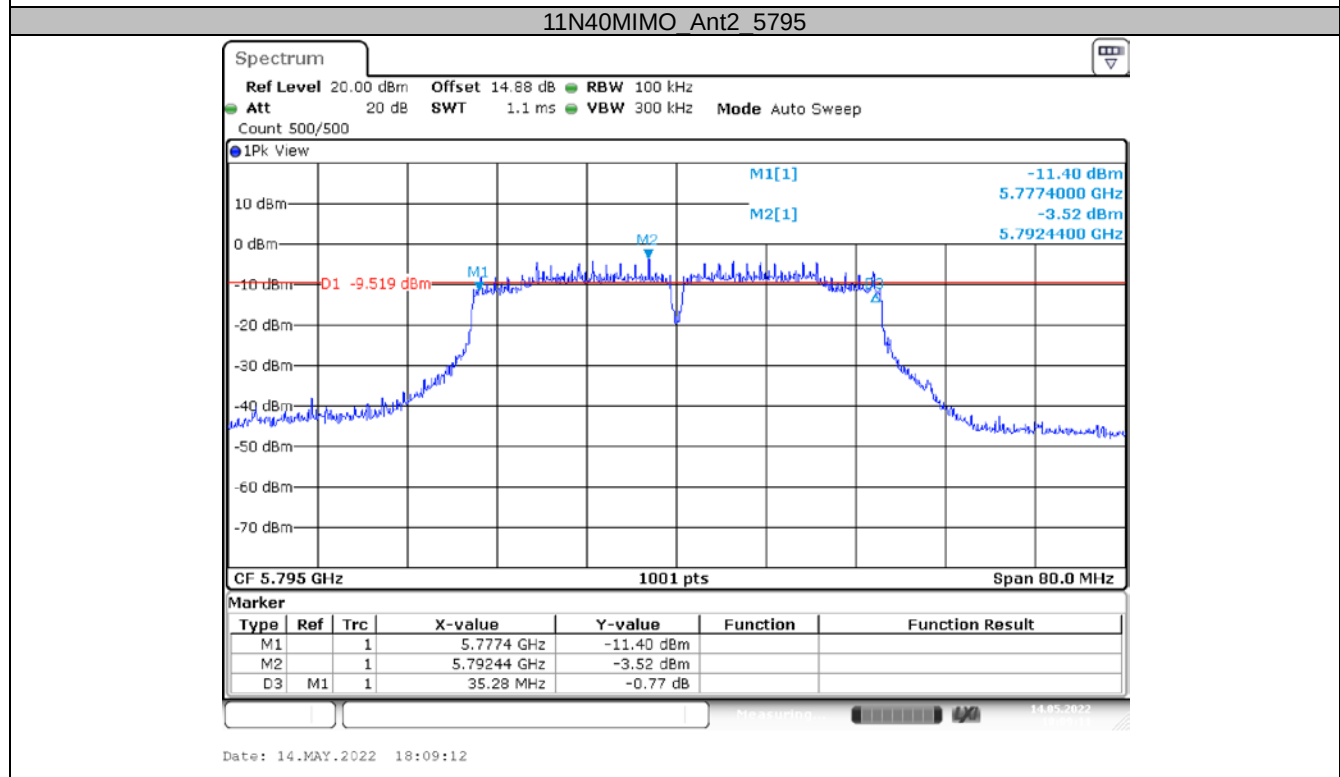
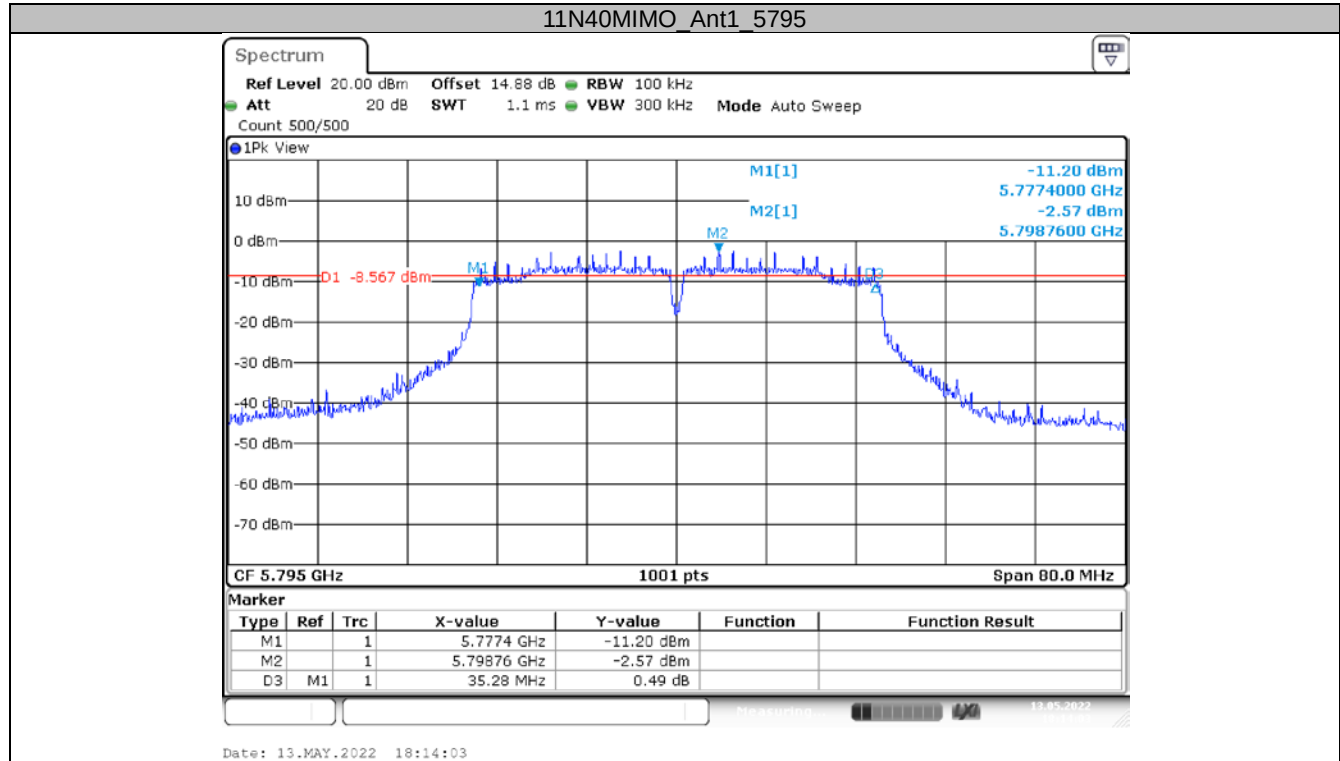


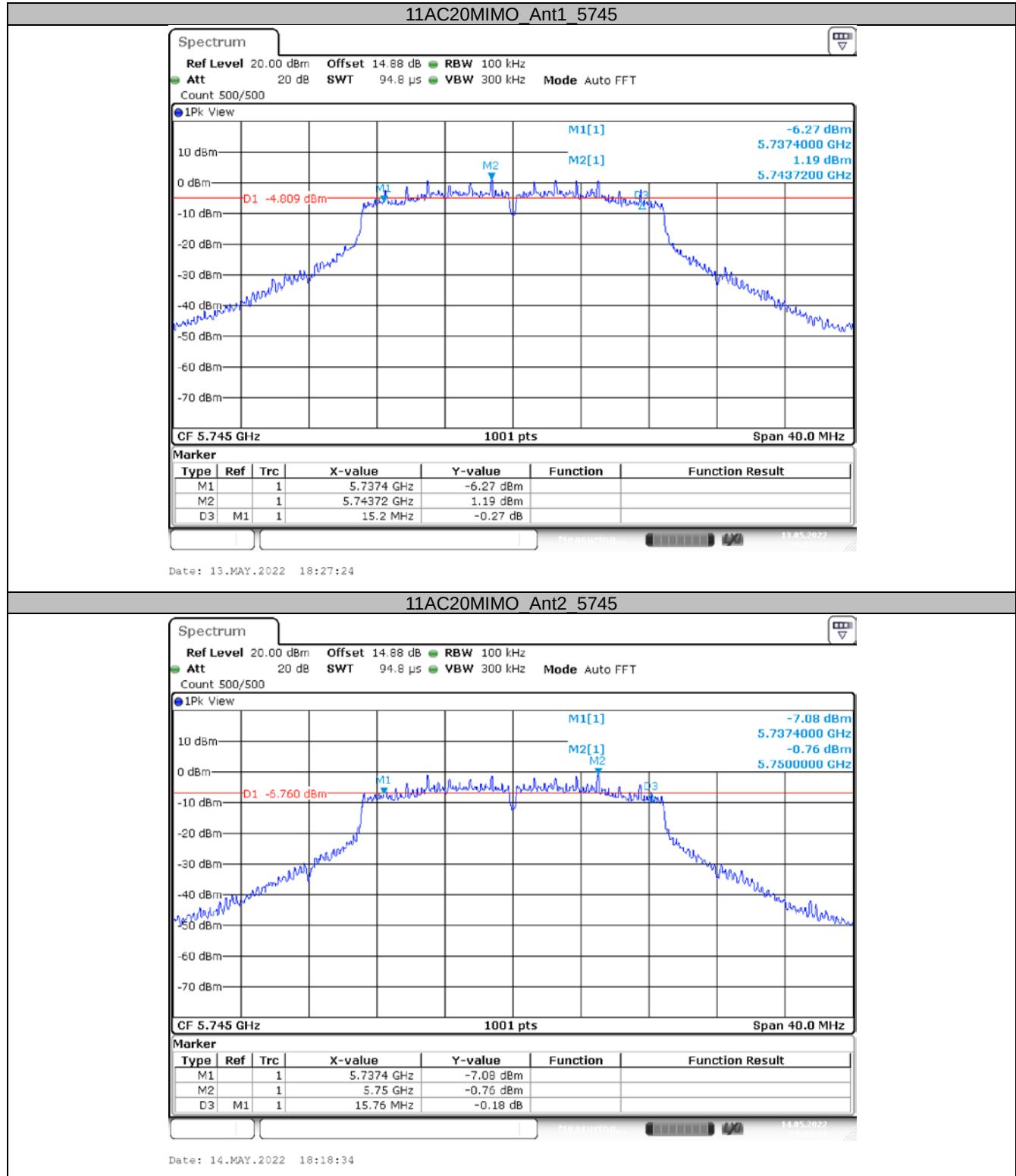


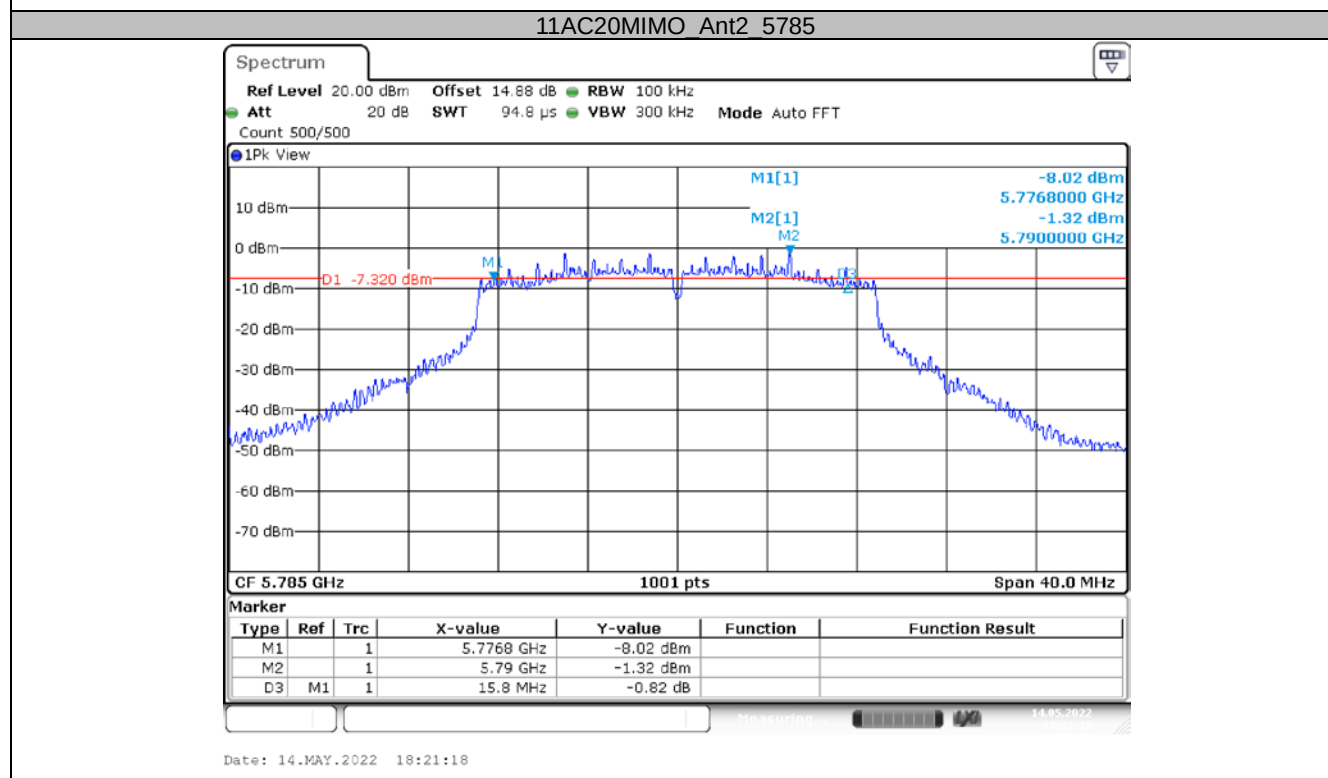
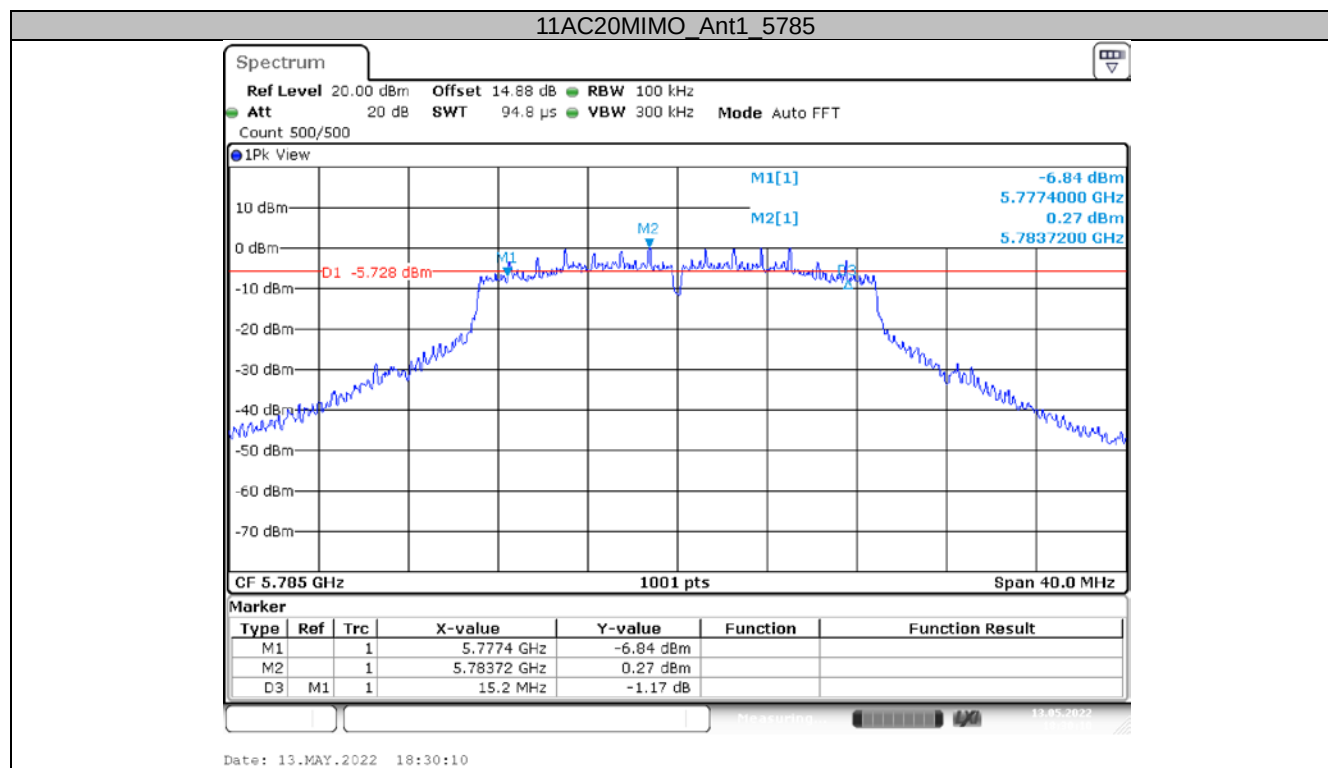


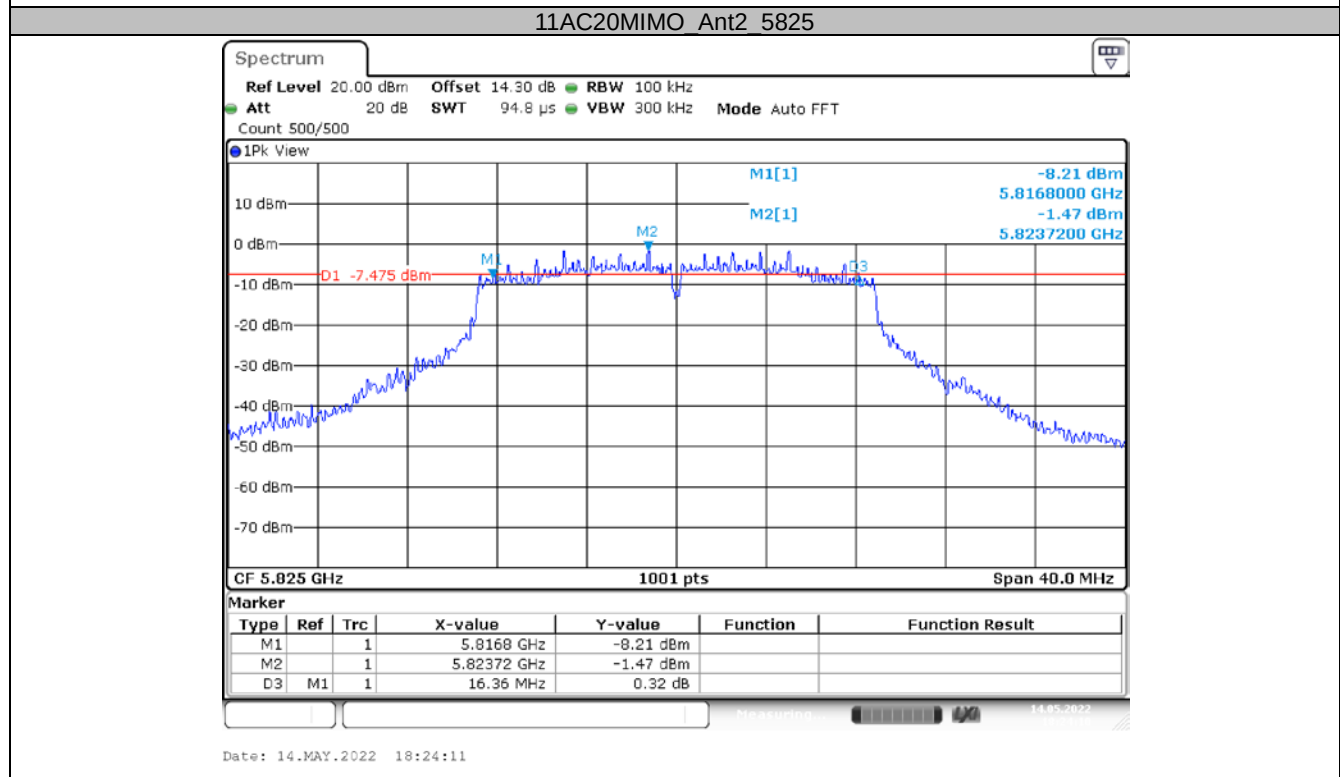
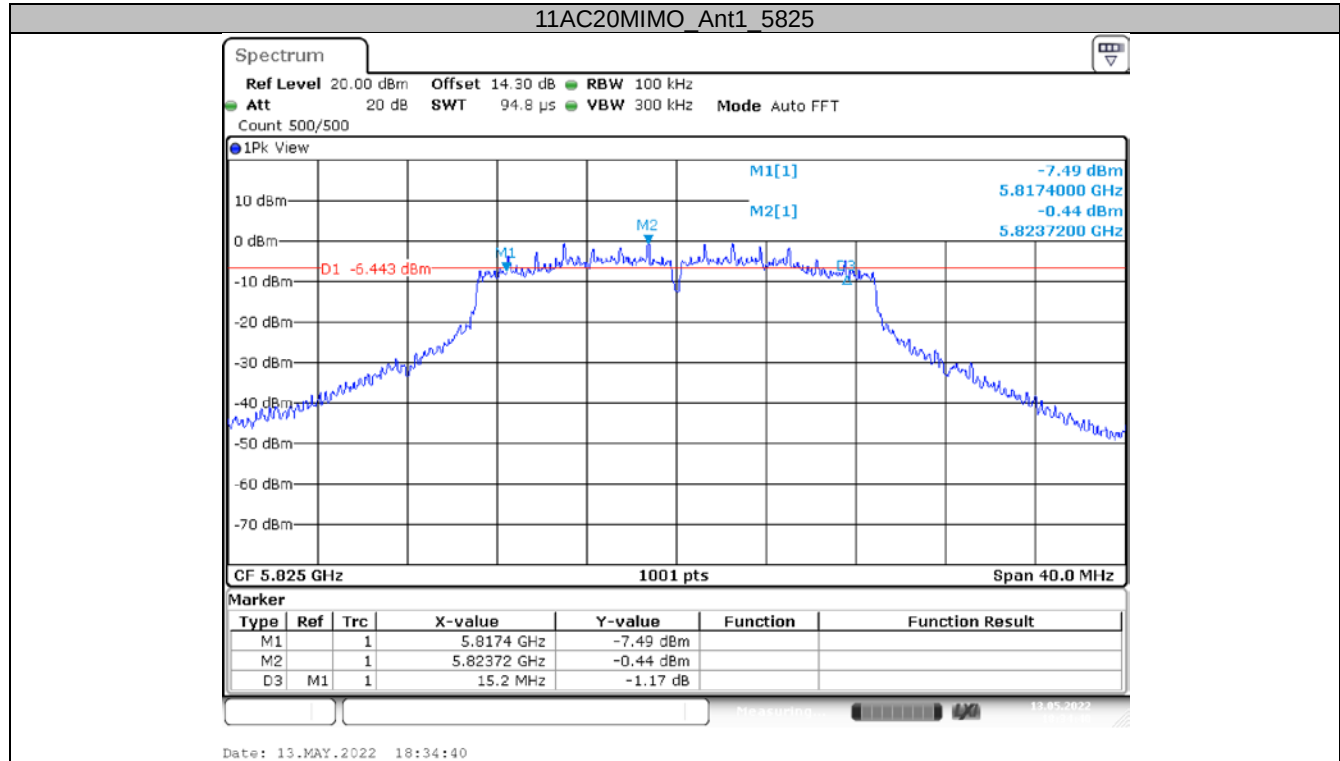




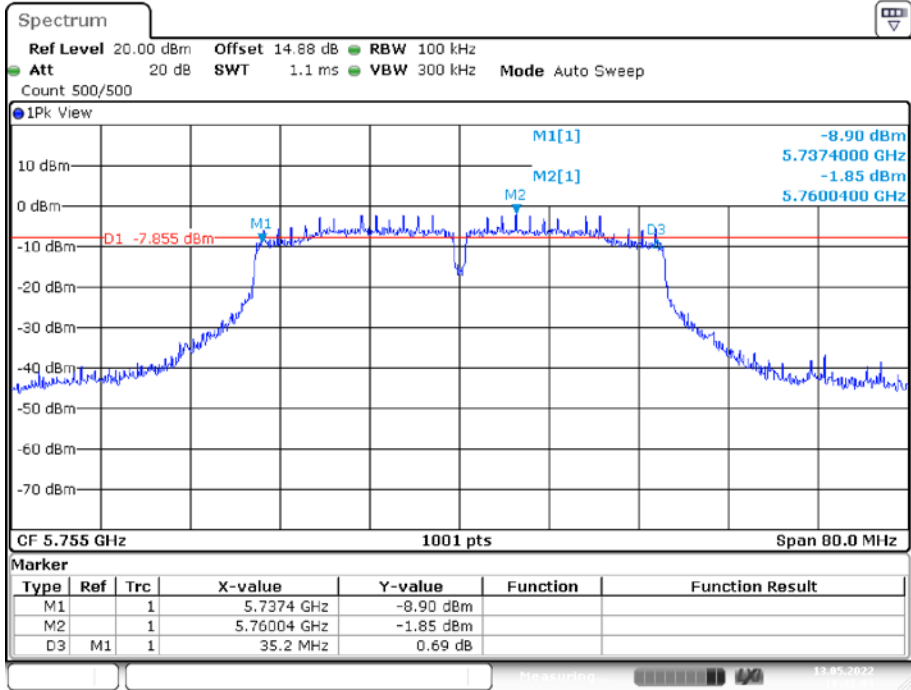




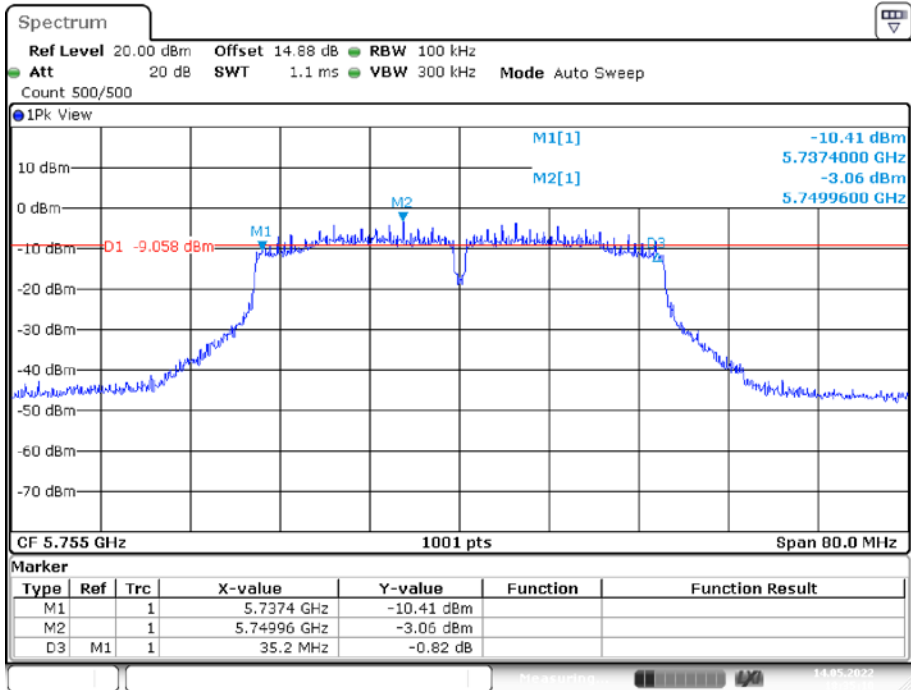


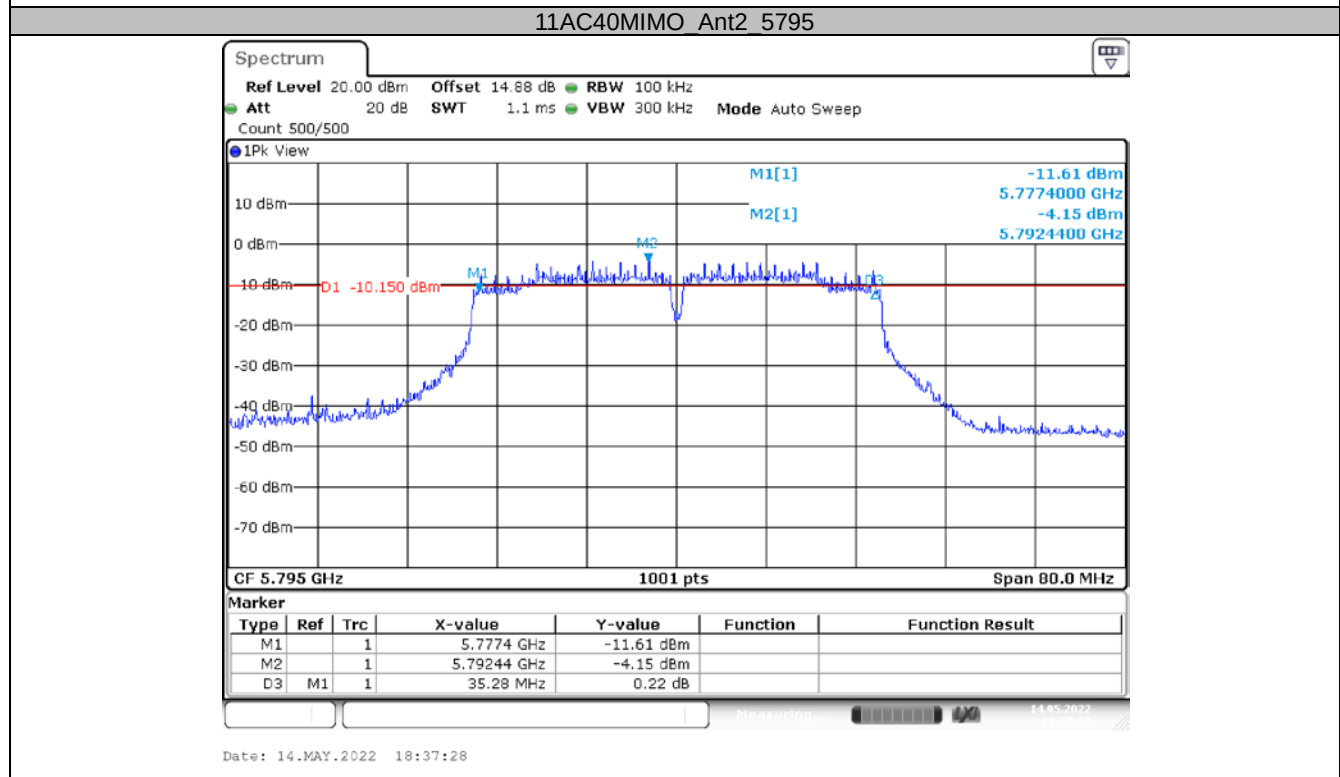
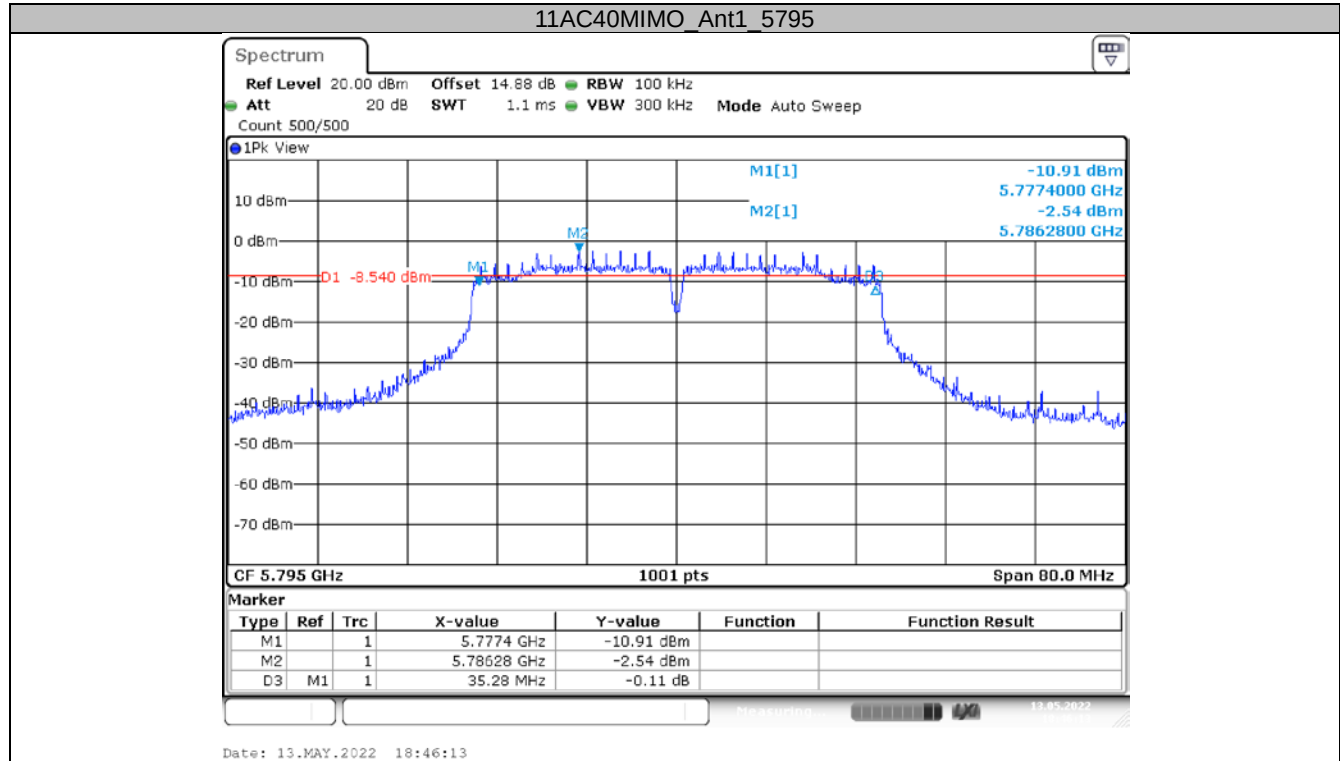


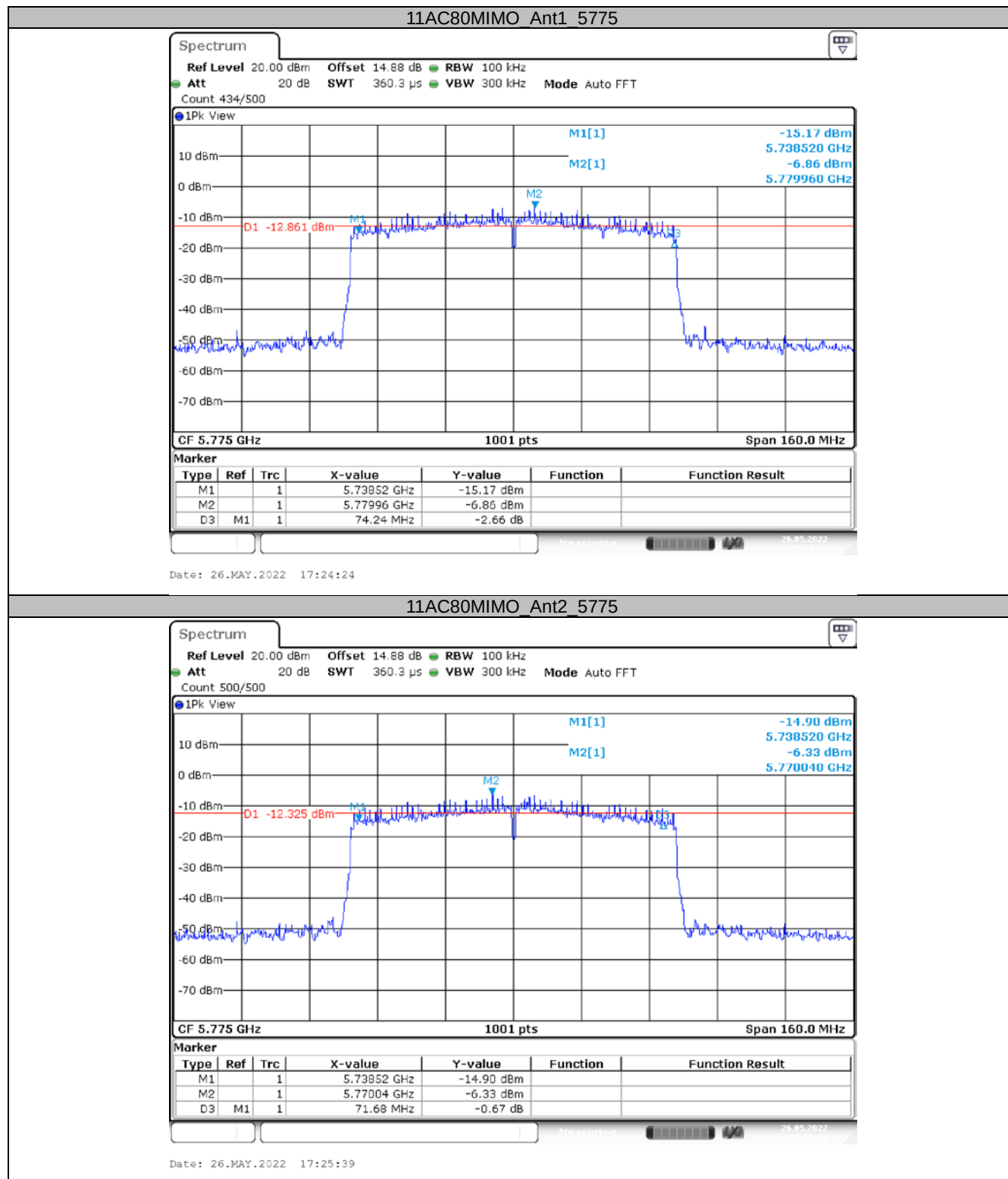
11AC40MIMO_Ant1_5755



11AC40MIMO_Ant2_5755







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

5150 MHz – 5250 MHz

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	13.44	<=23.98	PASS
	Ant2	5180	10.90	<=23.98	PASS
	total	5180	15.36	<=23.98	PASS
	Ant1	5200	13.24	<=23.98	PASS
	Ant2	5200	10.81	<=23.98	PASS
	total	5200	15.20	<=23.98	PASS
	Ant1	5240	13.19	<=23.98	PASS
	Ant2	5240	10.50	<=23.98	PASS
	total	5240	15.05	<=23.98	PASS
11N20MIMO	Ant1	5180	12.06	<=23.98	PASS
	Ant2	5180	9.67	<=23.98	PASS
	total	5180	14.03	<=23.98	PASS
	Ant1	5200	12.45	<=23.98	PASS
	Ant2	5200	9.03	<=23.98	PASS
	total	5200	14.09	<=23.98	PASS
	Ant1	5240	12.71	<=23.98	PASS
	Ant2	5240	9.06	<=23.98	PASS
	total	5240	14.26	<=23.98	PASS
11N40MIMO	Ant1	5190	12.65	<=23.98	PASS
	Ant2	5190	9.52	<=23.98	PASS
	total	5195	14.28	<=23.98	PASS
	Ant1	5230	12.58	<=23.98	PASS
	Ant2	5230	9.73	<=23.98	PASS
	total	5230	14.39	<=23.98	PASS
11AC20MIMO	Ant1	5180	12.19	<=23.98	PASS
	Ant2	5180	9.95	<=23.98	PASS
	total	5180	14.07	<=23.98	PASS
	Ant1	5200	12.80	<=23.98	PASS
	Ant2	5200	9.77	<=23.98	PASS
	total	5200	14.55	<=23.98	PASS
	Ant1	5240	12.83	<=23.98	PASS
	Ant2	5240	9.85	<=23.98	PASS
	total	5240	14.59	<=23.98	PASS
11AC40MIMO	Ant1	5190	12.44	<=23.98	PASS
	Ant2	5190	9.36	<=23.98	PASS
	total	5190	14.16	<=23.98	PASS
	Ant1	5230	12.68	<=23.98	PASS
	Ant2	5230	9.04	<=23.98	PASS
	total	5230	14.23	<=23.98	PASS
11AC80MIMO	Ant1	5210	12.35	<=23.98	PASS
	Ant2	5210	9.39	<=23.98	PASS
	total	5210	14.13	<=23.98	PASS

Note 1: The device is a master and client device, and the tighter limit applies in the table.

Note 2: The maximum antenna gain is 3.39 dBi. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0dB (i.e., no array gain) For $N_{ANT} \leq 4$;

So: Directional gain=3.39dBi <6dBi

5725 – 5850 MHz

TestMode	Antenna	Channel	Result [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
11A	Ant1	5745	13.37	<=30	PASS
	Ant2	5745	10.40	<=30	PASS
	total	5745	15.14	<=30	PASS
	Ant1	5785	13.17	<=30	PASS
	Ant2	5785	10.38	<=30	PASS
	total	5785	15.00	<=30	PASS
	Ant1	5825	13.97	<=30	PASS
	Ant2	5825	10.50	<=30	PASS
11N20MIMO	total	5825	15.58	<=30	PASS
	Ant1	5745	12.41	<=30	PASS
	Ant2	5745	9.88	<=30	PASS
	total	5745	14.33	<=30	PASS
	Ant1	5785	12.26	<=30	PASS
	Ant2	5785	9.44	<=30	PASS
	total	5785	14.08	<=30	PASS
	Ant1	5825	12.42	<=30	PASS
11N40MIMO	Ant2	5825	9.57	<=30	PASS
	total	5825	14.23	<=30	PASS
	Ant1	5755	12.77	<=30	PASS
	Ant2	5755	9.67	<=30	PASS
	total	5755	14.50	<=30	PASS
	Ant1	5795	12.05	<=30	PASS
11AC20MIMO	Ant2	5795	9.44	<=30	PASS
	total	5795	13.94	<=30	PASS
	Ant1	5745	12.82	<=30	PASS
	Ant2	5745	9.79	<=30	PASS
	total	5745	14.63	<=30	PASS
	Ant1	5785	12.01	<=30	PASS
	Ant2	5785	9.06	<=30	PASS
	total	5785	13.78	<=30	PASS
11AC40MIMO	Ant1	5825	12.31	<=30	PASS
	Ant2	5825	9.34	<=30	PASS
	total	5825	14.08	<=30	PASS
	Ant1	5755	12.73	<=30	PASS
	Ant2	5755	9.72	<=30	PASS
	total	5755	14.48	<=30	PASS
11AC80MIMO	Ant1	5795	12.33	<=30	PASS
	Ant2	5795	9.47	<=30	PASS
	total	5795	14.14	<=30	PASS
11AC80MIMO	Ant1	5775	12.36	<=30	PASS
	Ant2	5775	9.73	<=30	PASS
	total	5775	14.25	<=30	PASS

Note 1: The device is a master and client device.

Note 2: The maximum antenna gain is 4.31 dBi. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0dB (i.e., no array gain) For $N_{ANT} \leq 4$;

So: Directional gain=4.31dBi <6dBi