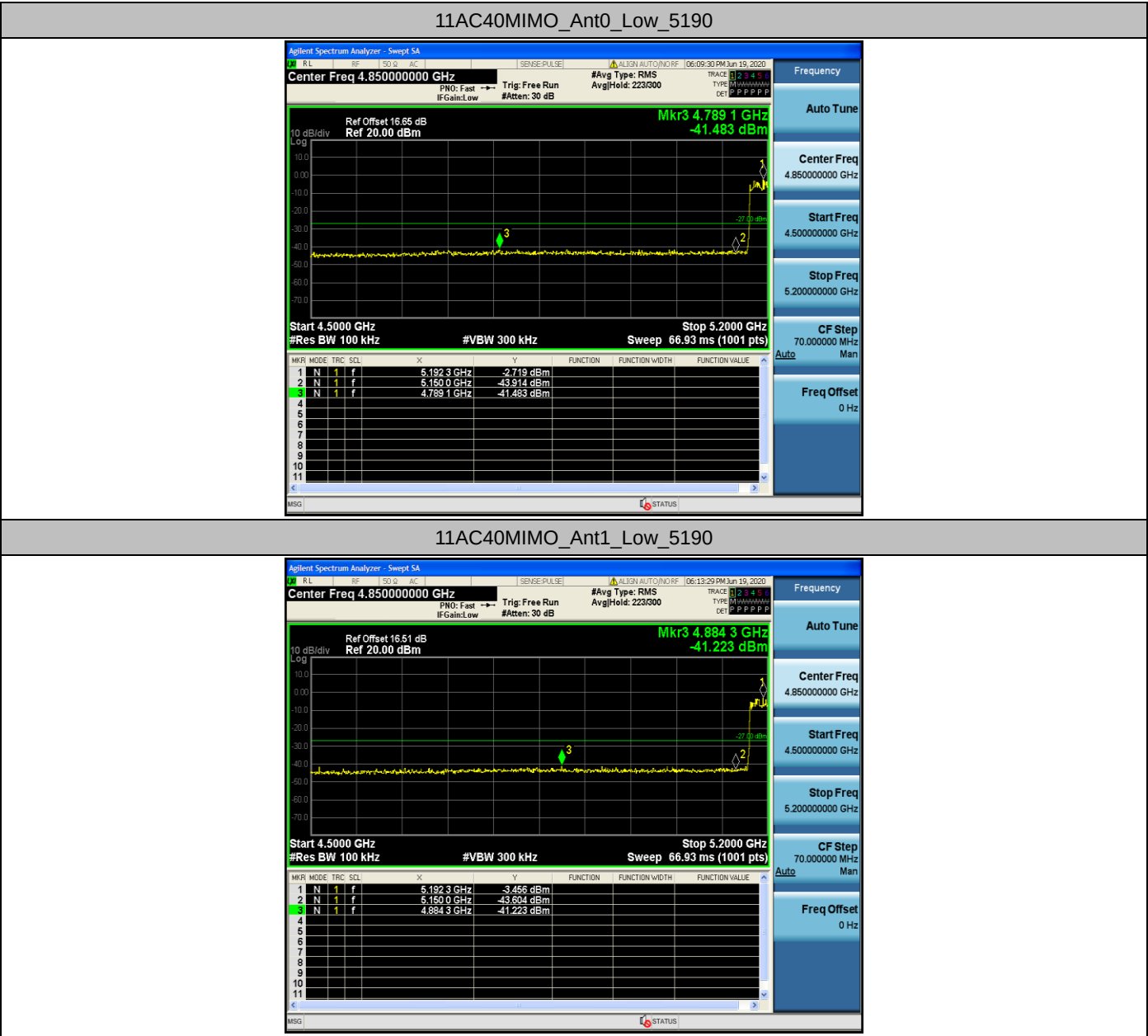
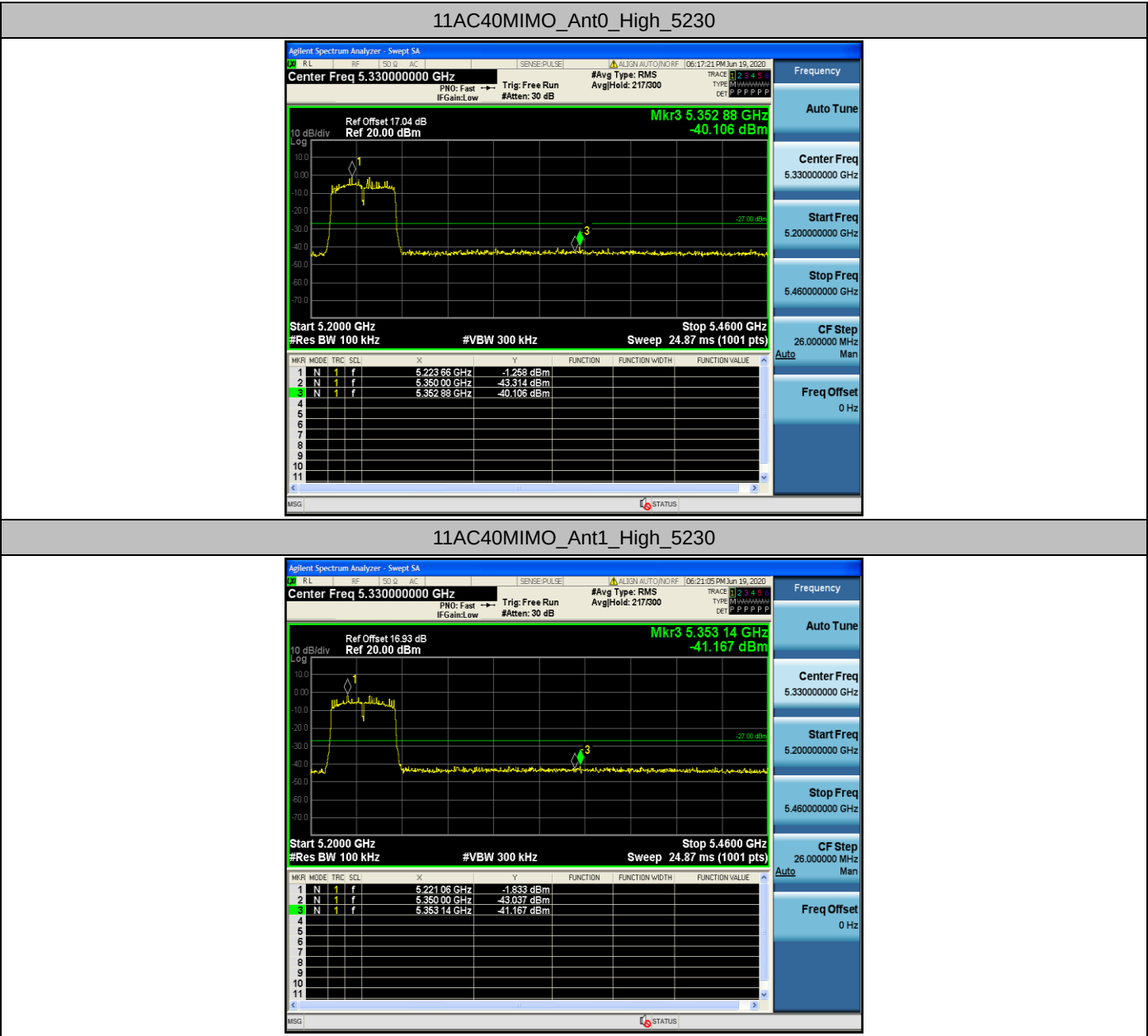
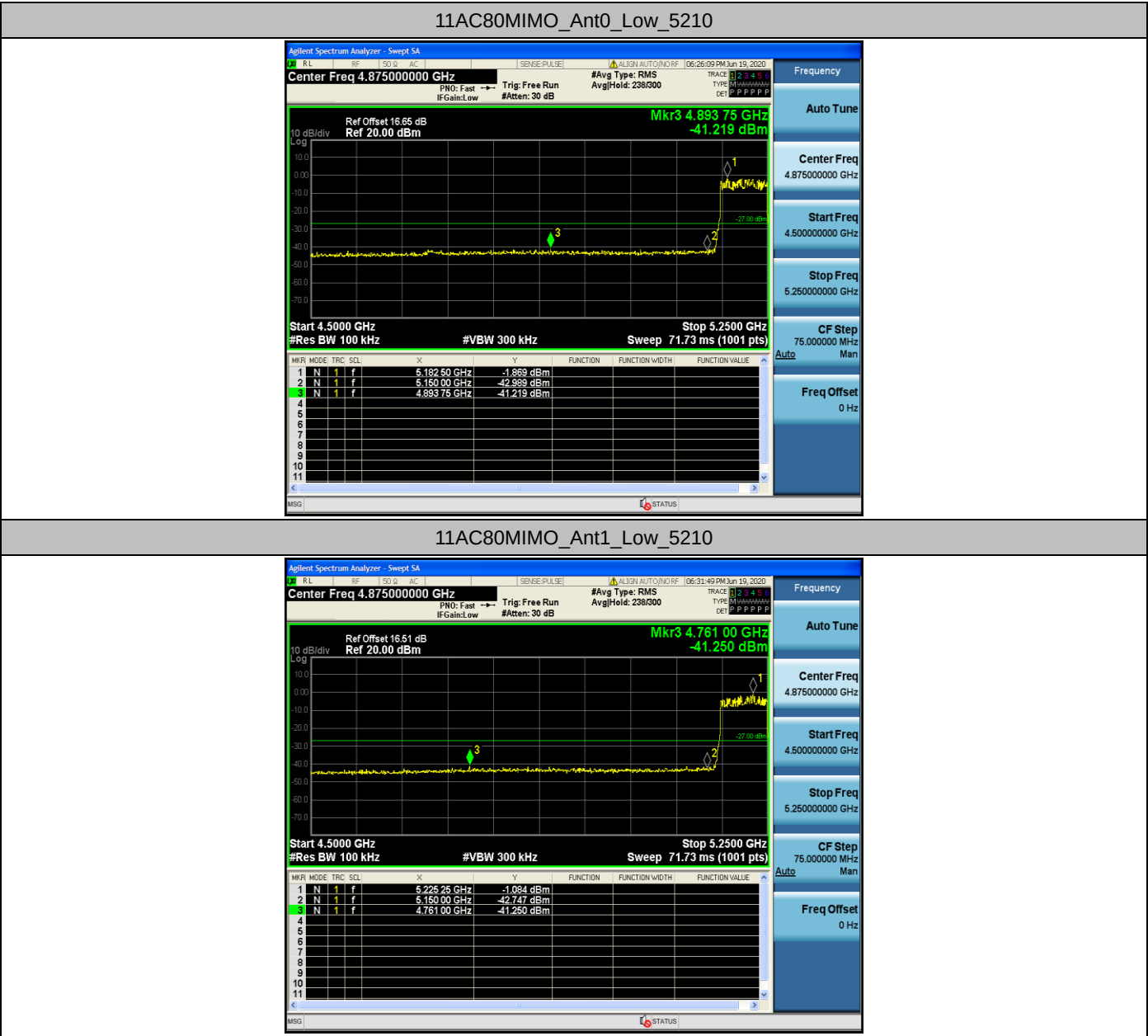
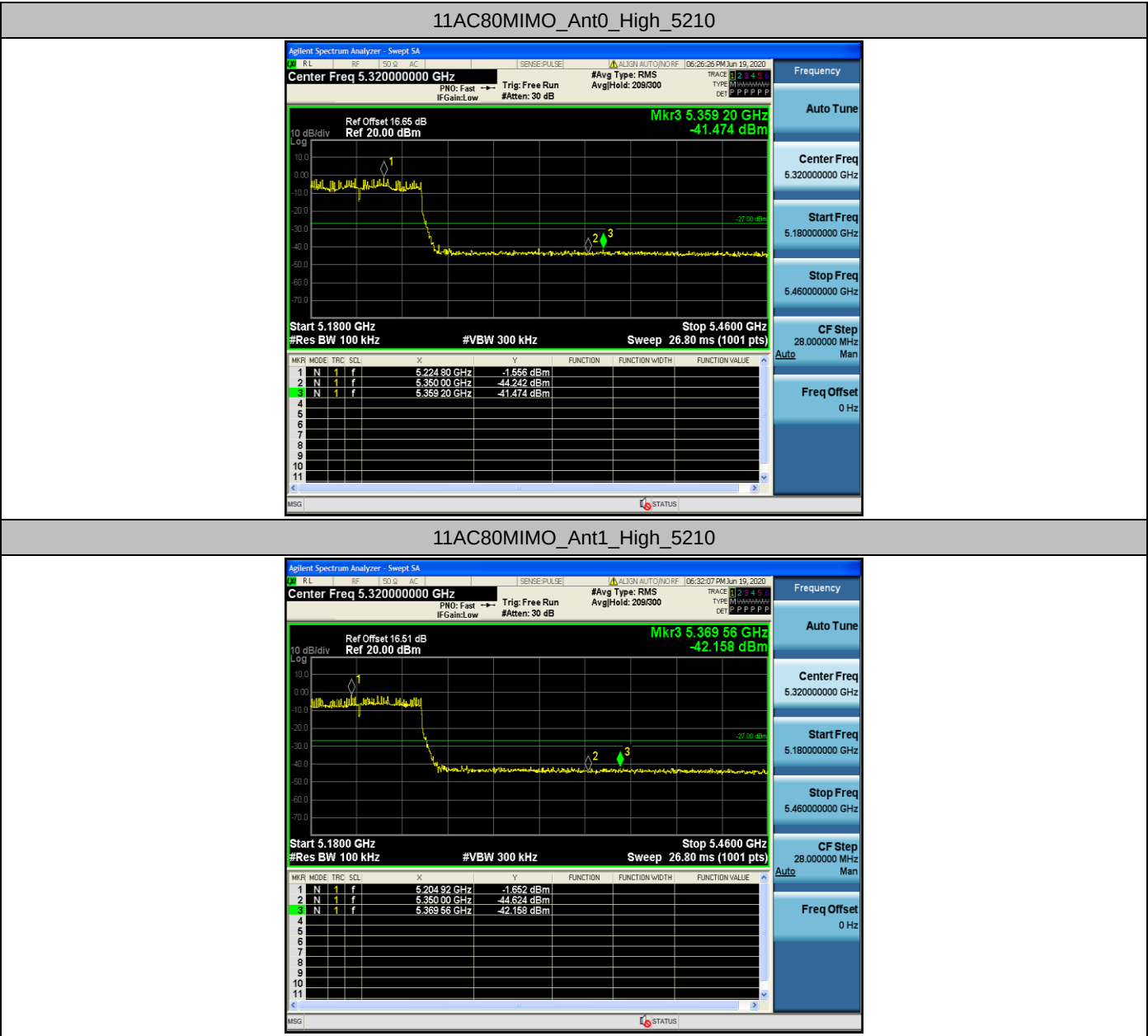










Appendix G: Frequency Stability

Test Result

Ant 1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	132	5179.906532	5150 – 5250	PASS
5180	20	108	5179.997770	5150 – 5250	PASS
5180	50	120	5179.967340	5150 – 5250	PASS
5180	40	120	5180.097793	5150 – 5250	PASS
5180	30	120	5180.016110	5150 – 5250	PASS
5180	20	120	5180.025657	5150 – 5250	PASS
5180	10	120	5179.950222	5150 – 5250	PASS
5180	0	120	5179.930476	5150 – 5250	PASS
5180	-10	120	5180.061853	5150 – 5250	PASS
5180	-20	120	5180.027115	5150 – 5250	PASS
5180	-30	120	5179.949906	5150 – 5250	PASS

Ant 2

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	132	5179.965353	5150 – 5250	PASS
5180	20	108	5180.003419	5150 – 5250	PASS
5180	50	120	5179.955803	5150 – 5250	PASS
5180	40	120	5179.945823	5150 – 5250	PASS
5180	30	120	5180.035293	5150 – 5250	PASS
5180	20	120	5179.974629	5150 – 5250	PASS
5180	10	120	5180.003090	5150 – 5250	PASS
5180	0	120	5179.946053	5150 – 5250	PASS
5180	-10	120	5180.017272	5150 – 5250	PASS
5180	-20	120	5179.921051	5150 – 5250	PASS
5180	-30	120	5180.078774	5150 – 5250	PASS

Ant 1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5199.932948	5150 – 5250	PASS
5200	20	108	5200.043557	5150 – 5250	PASS
5200	50	120	5200.074733	5150 – 5250	PASS
5200	40	120	5200.005697	5150 – 5250	PASS
5200	30	120	5200.083030	5150 – 5250	PASS
5200	20	120	5200.012519	5150 – 5250	PASS
5200	10	120	5200.084453	5150 – 5250	PASS
5200	0	120	5200.017959	5150 – 5250	PASS
5200	-10	120	5200.096472	5150 – 5250	PASS
5200	-20	120	5199.989141	5150 – 5250	PASS
5200	-30	120	5199.923071	5150 – 5250	PASS

Ant 2

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5200.073090	5150 – 5250	PASS
5200	20	108	5199.932967	5150 – 5250	PASS
5200	50	120	5199.911955	5150 – 5250	PASS
5200	40	120	5200.098376	5150 – 5250	PASS
5200	30	120	5199.952461	5150 – 5250	PASS
5200	20	120	5199.962426	5150 – 5250	PASS
5200	10	120	5200.070410	5150 – 5250	PASS
5200	0	120	5199.989389	5150 – 5250	PASS
5200	-10	120	5199.974245	5150 – 5250	PASS
5200	-20	120	5199.976860	5150 – 5250	PASS
5200	-30	120	5199.985737	5150 – 5250	PASS

Ant 1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5239.978916	5150 – 5250	PASS
5240	20	108	5240.008933	5150 – 5250	PASS
5240	50	120	5240.090696	5150 – 5250	PASS
5240	40	120	5240.054947	5150 – 5250	PASS
5240	30	120	5239.916773	5150 – 5250	PASS
5240	20	120	5240.013172	5150 – 5250	PASS
5240	10	120	5239.958536	5150 – 5250	PASS
5240	0	120	5240.085387	5150 – 5250	PASS
5240	-10	120	5239.990696	5150 – 5250	PASS
5240	-20	120	5240.091312	5150 – 5250	PASS
5240	-30	120	5239.908040	5150 – 5250	PASS

Ant 2

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5239.948150	5150 – 5250	PASS
5240	20	108	5240.086418	5150 – 5250	PASS
5240	50	120	5240.031754	5150 – 5250	PASS
5240	40	120	5240.022696	5150 – 5250	PASS
5240	30	120	5240.080733	5150 – 5250	PASS
5240	20	120	5239.999530	5150 – 5250	PASS
5240	10	120	5239.905482	5150 – 5250	PASS
5240	0	120	5239.971213	5150 – 5250	PASS
5240	-10	120	5239.996834	5150 – 5250	PASS
5240	-20	120	5240.018616	5150 – 5250	PASS
5240	-30	120	5239.905753	5150 – 5250	PASS

Ant 1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5190.059169	5150 – 5250	PASS
5190	20	108	5190.001530	5150 – 5250	PASS
5190	50	120	5190.027497	5150 – 5250	PASS
5190	40	120	5190.082876	5150 – 5250	PASS
5190	30	120	5189.942768	5150 – 5250	PASS
5190	20	120	5190.033561	5150 – 5250	PASS
5190	10	120	5189.961637	5150 – 5250	PASS
5190	0	120	5190.098059	5150 – 5250	PASS
5190	-10	120	5190.004075	5150 – 5250	PASS
5190	-20	120	5190.033103	5150 – 5250	PASS
5190	-30	120	5190.072967	5150 – 5250	PASS

Ant 2

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5190.060977	5150 – 5250	PASS
5190	20	108	5189.908329	5150 – 5250	PASS
5190	50	120	5190.007688	5150 – 5250	PASS
5190	40	120	5190.071523	5150 – 5250	PASS
5190	30	120	5189.924892	5150 – 5250	PASS
5190	20	120	5190.001988	5150 – 5250	PASS
5190	10	120	5189.922839	5150 – 5250	PASS
5190	0	120	5189.900075	5150 – 5250	PASS
5190	-10	120	5189.958271	5150 – 5250	PASS
5190	-20	120	5189.980139	5150 – 5250	PASS
5190	-30	120	5189.923667	5150 – 5250	PASS

Ant 1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5229.903110	5150 – 5250	PASS
5230	20	108	5230.012119	5150 – 5250	PASS
5230	50	120	5229.970134	5150 – 5250	PASS
5230	40	120	5229.917058	5150 – 5250	PASS
5230	30	120	5229.985004	5150 – 5250	PASS
5230	20	120	5229.942238	5150 – 5250	PASS
5230	10	120	5229.975469	5150 – 5250	PASS
5230	0	120	5230.037895	5150 – 5250	PASS
5230	-10	120	5229.961338	5150 – 5250	PASS
5230	-20	120	5229.942994	5150 – 5250	PASS
5230	-30	120	5229.904178	5150 – 5250	PASS

Ant 2

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5229.908740	5150 – 5250	PASS
5230	20	108	5230.062640	5150 – 5250	PASS
5230	50	120	5229.993240	5150 – 5250	PASS
5230	40	120	5229.965963	5150 – 5250	PASS
5230	30	120	5229.910837	5150 – 5250	PASS
5230	20	120	5229.955638	5150 – 5250	PASS
5230	10	120	5229.923930	5150 – 5250	PASS
5230	0	120	5230.098868	5150 – 5250	PASS
5230	-10	120	5230.000199	5150 – 5250	PASS
5230	-20	120	5230.008437	5150 – 5250	PASS
5230	-30	120	5230.010869	5150 – 5250	PASS

Ant 1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	132	5210.033263	5150 – 5250	PASS
5210	20	108	5210.089885	5150 – 5250	PASS
5210	50	120	5209.942640	5150 – 5250	PASS
5210	40	120	5210.000111	5150 – 5250	PASS
5210	30	120	5210.098257	5150 – 5250	PASS
5210	20	120	5209.932636	5150 – 5250	PASS
5210	10	120	5209.974670	5150 – 5250	PASS
5210	0	120	5210.031548	5150 – 5250	PASS
5210	-10	120	5209.932482	5150 – 5250	PASS
5210	-20	120	5209.903602	5150 – 5250	PASS
5210	-30	120	5209.977612	5150 – 5250	PASS

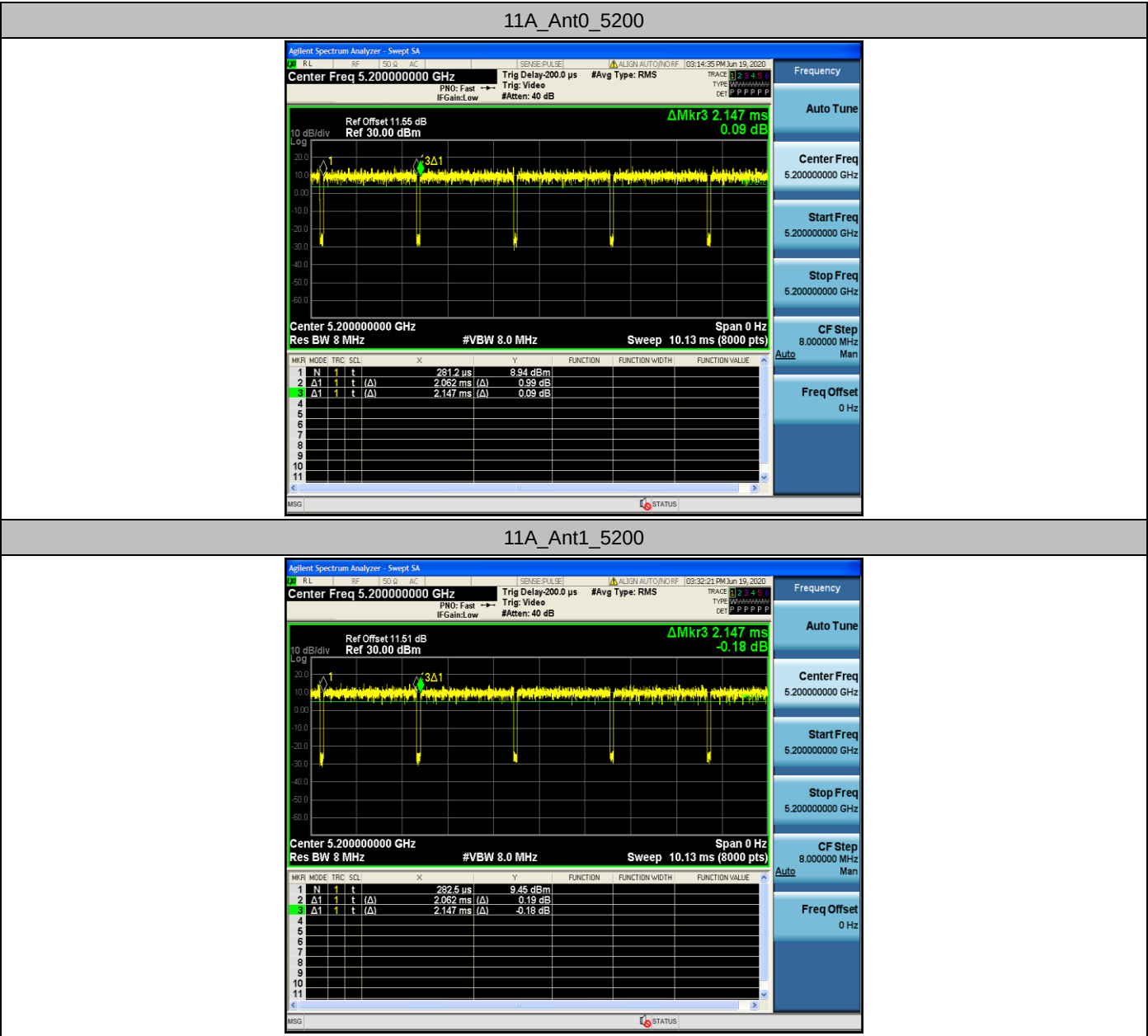
Ant 2

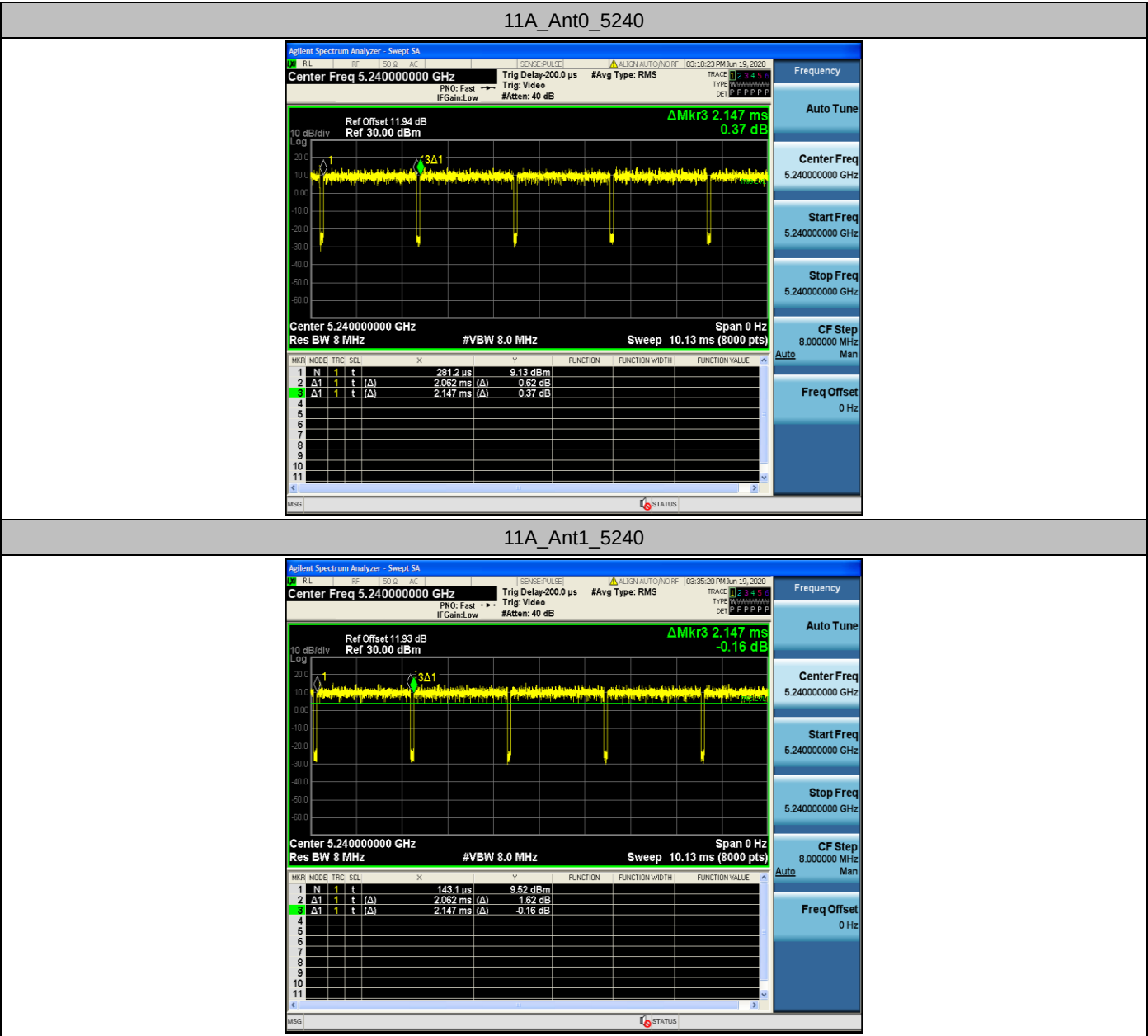
Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	132	5210.041525	5150 – 5250	PASS
5210	20	108	5209.912114	5150 – 5250	PASS
5210	50	120	5209.971640	5150 – 5250	PASS
5210	40	120	5210.028985	5150 – 5250	PASS
5210	30	120	5209.998416	5150 – 5250	PASS
5210	20	120	5209.965242	5150 – 5250	PASS
5210	10	120	5210.090680	5150 – 5250	PASS
5210	0	120	5210.088640	5150 – 5250	PASS
5210	-10	120	5209.951861	5150 – 5250	PASS
5210	-20	120	5210.058665	5150 – 5250	PASS
5210	-30	120	5210.021994	5150 – 5250	PASS

Appendix F: Duty Cycle

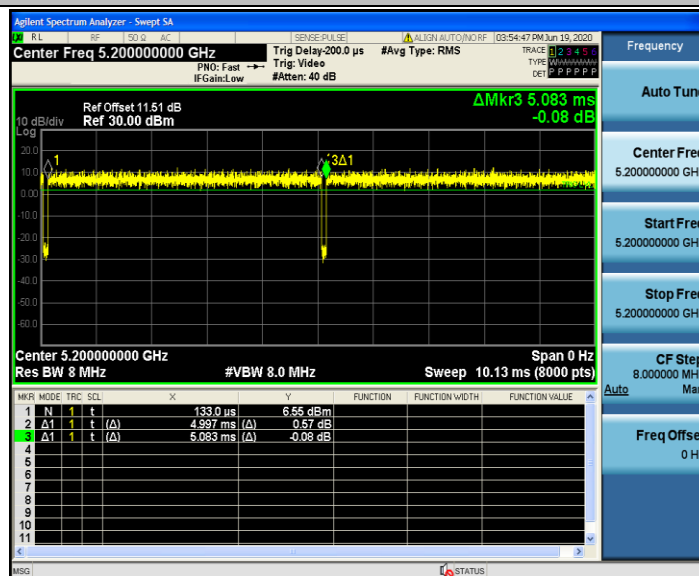
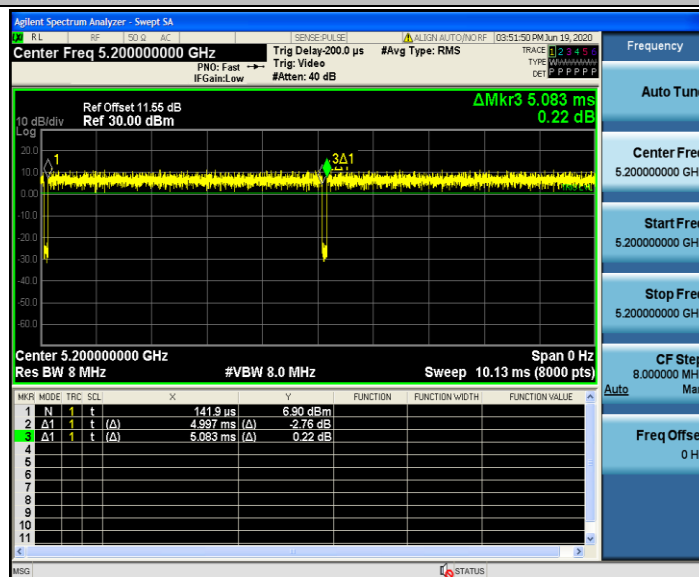
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant0	5180	2.06	2.60	79.37
	Ant1	5180	2.06	2.15	95.99
	Ant0	5200	2.06	2.15	96.05
	Ant1	5200	2.06	2.15	96.05
	Ant0	5240	2.06	2.15	96.05
	Ant1	5240	2.06	2.15	96.05
11N20MIMO	Ant0	5180	5.00	5.08	98.31
	Ant1	5180	5.00	5.08	98.33
	Ant0	5200	5.00	5.08	98.31
	Ant1	5200	5.00	5.08	98.31
	Ant0	5240	5.00	5.08	98.43
	Ant1	5240	5.00	5.08	98.33
11N40MIMO	Ant0	5190	2.43	2.50	96.86
	Ant1	5190	2.43	2.50	96.86
	Ant0	5230	2.43	2.51	96.81
	Ant1	5230	2.42	2.50	96.81
11AC20MIMO	Ant0	5180	5.01	5.09	98.33
	Ant1	5180	5.01	5.09	98.41
	Ant0	5200	5.01	5.09	98.38
	Ant1	5200	5.01	5.09	98.41
	Ant0	5240	5.01	5.11	98.02
	Ant1	5240	5.01	5.09	98.41
11AC40MIMO	Ant0	5190	2.43	2.52	96.63
	Ant1	5190	2.43	2.51	96.82
	Ant0	5230	2.43	2.52	96.63
	Ant1	5230	2.43	2.51	96.88
11AC80MIMO	Ant0	5210	1.15	1.23	93.10
	Ant1	5210	1.15	1.23	93.20

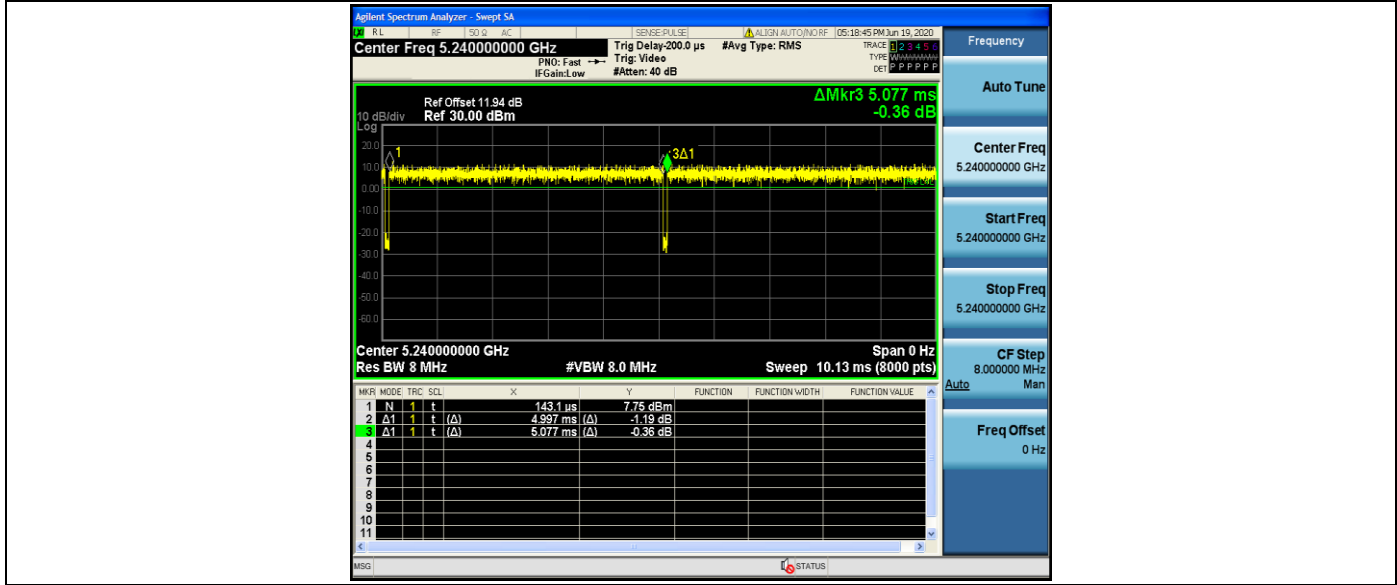




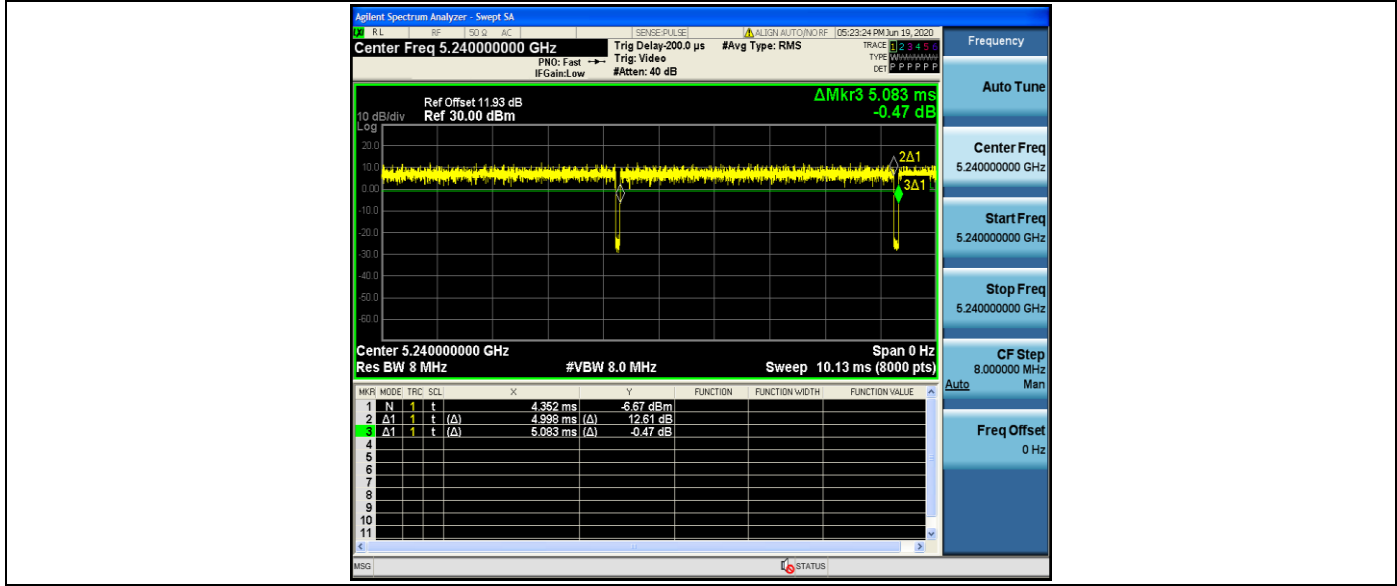




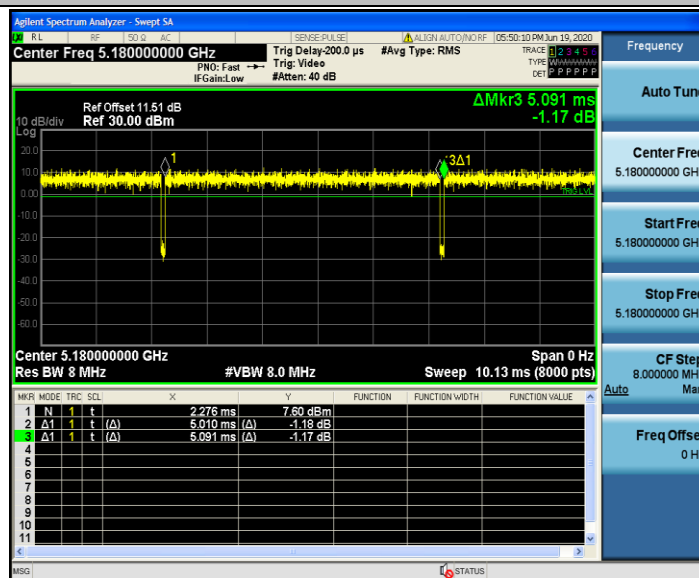
11N20MIMO_Ant0_5240

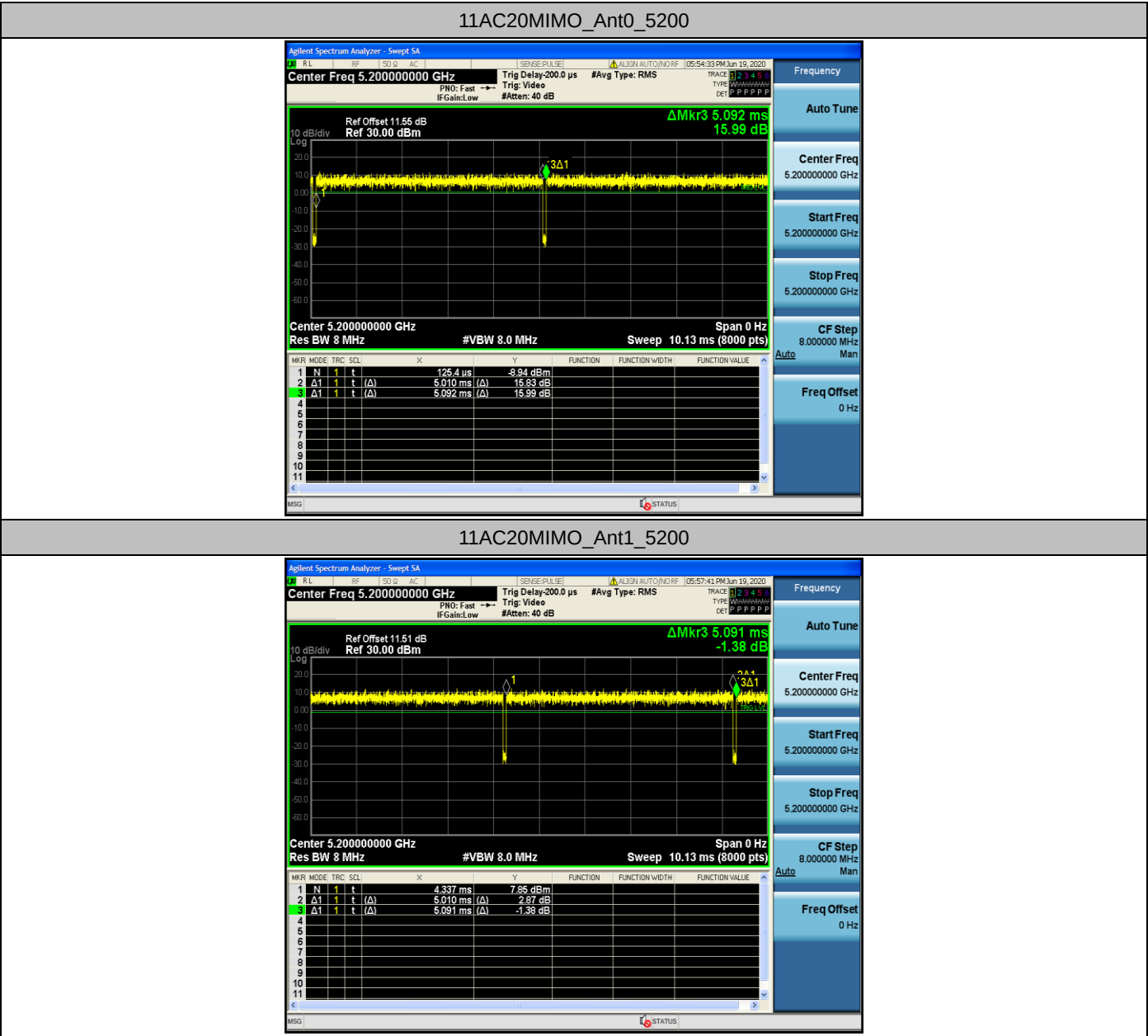


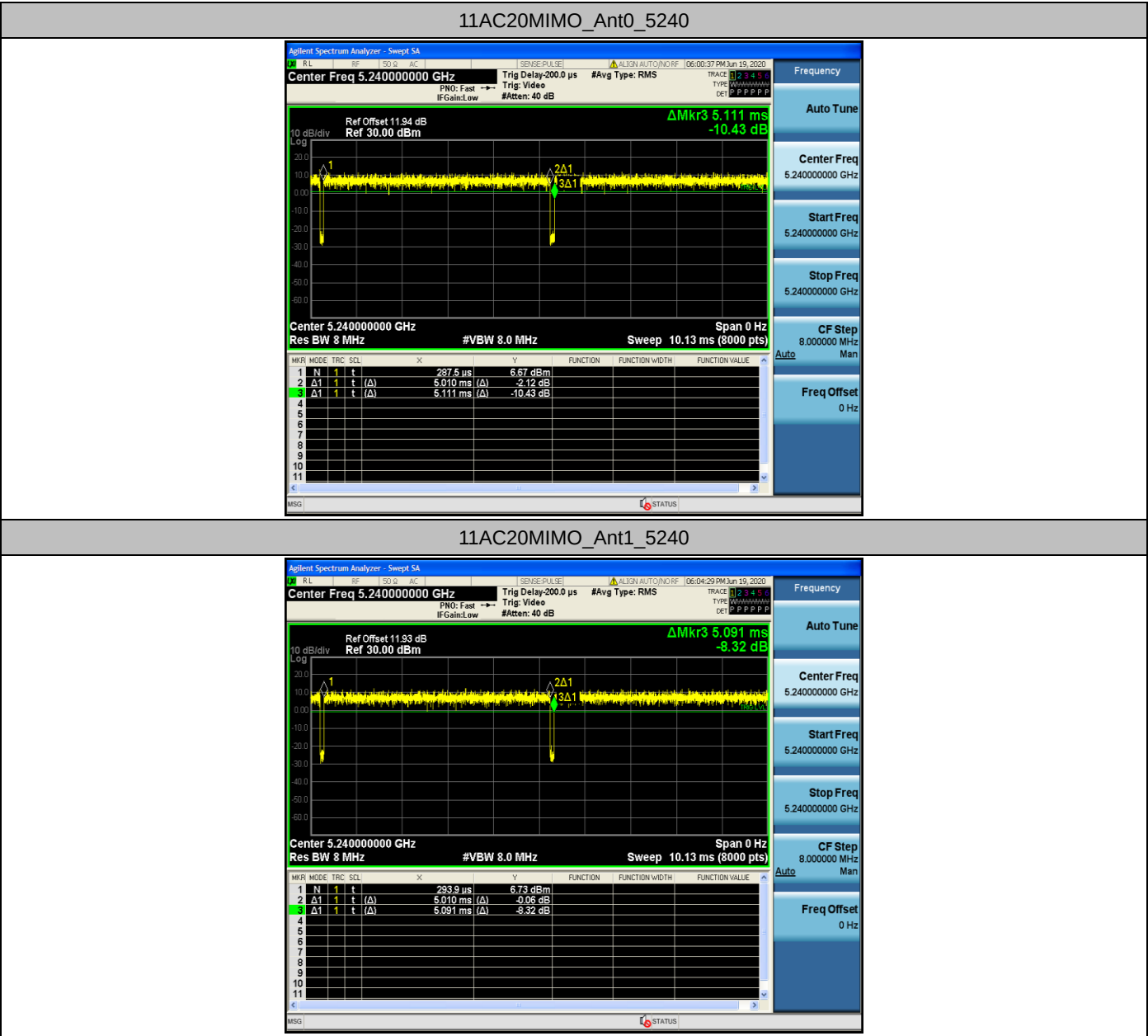
11N20MIMO_Ant1_5240

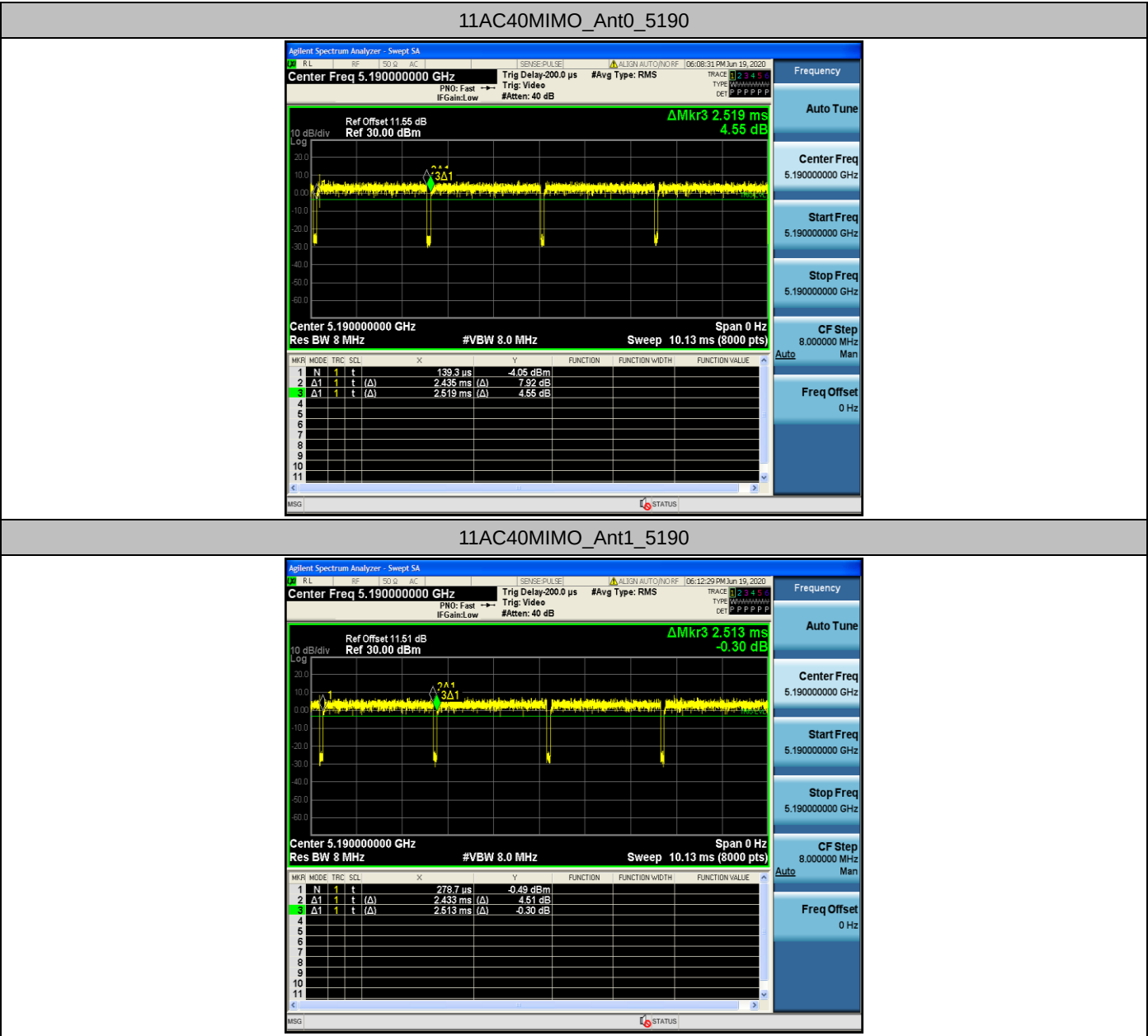


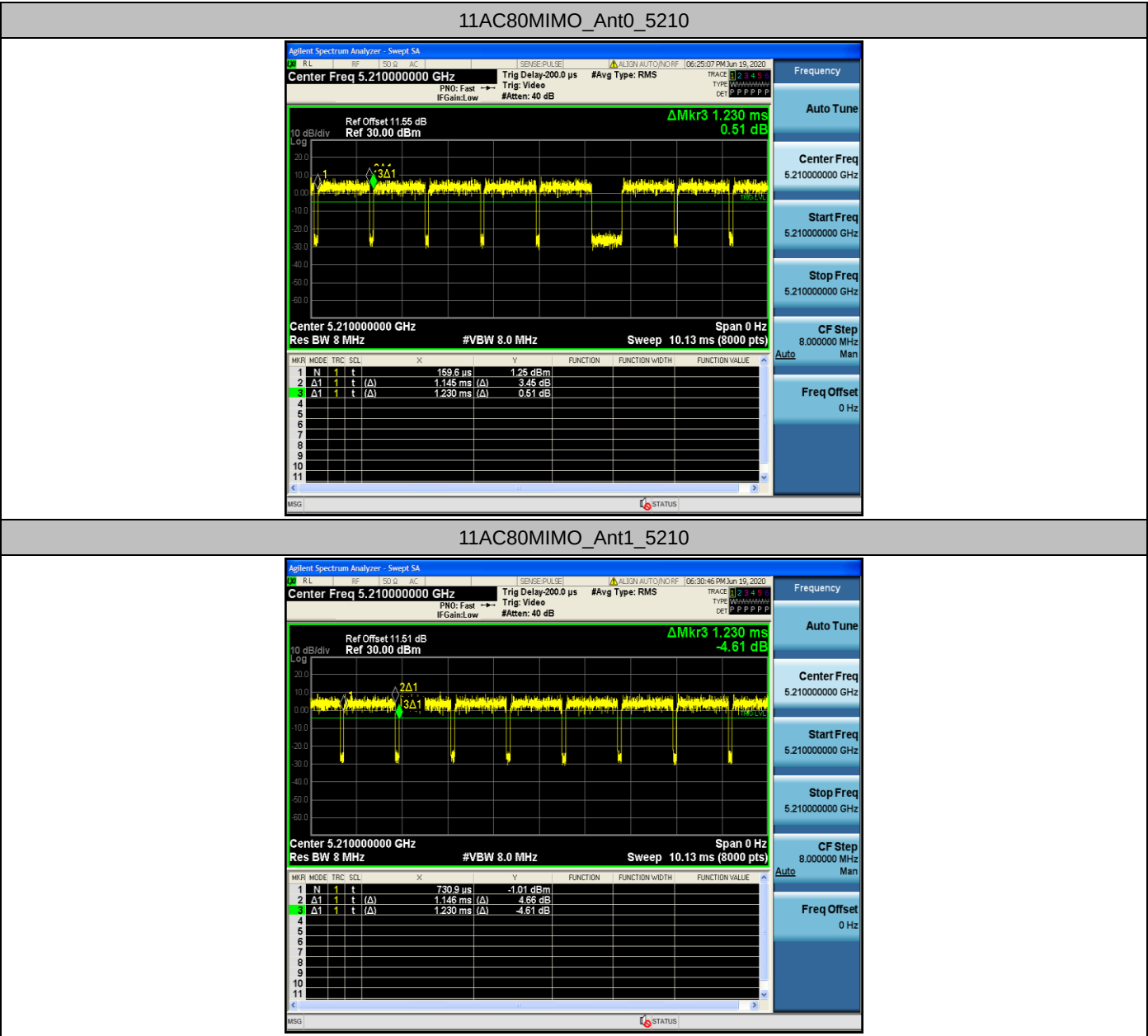










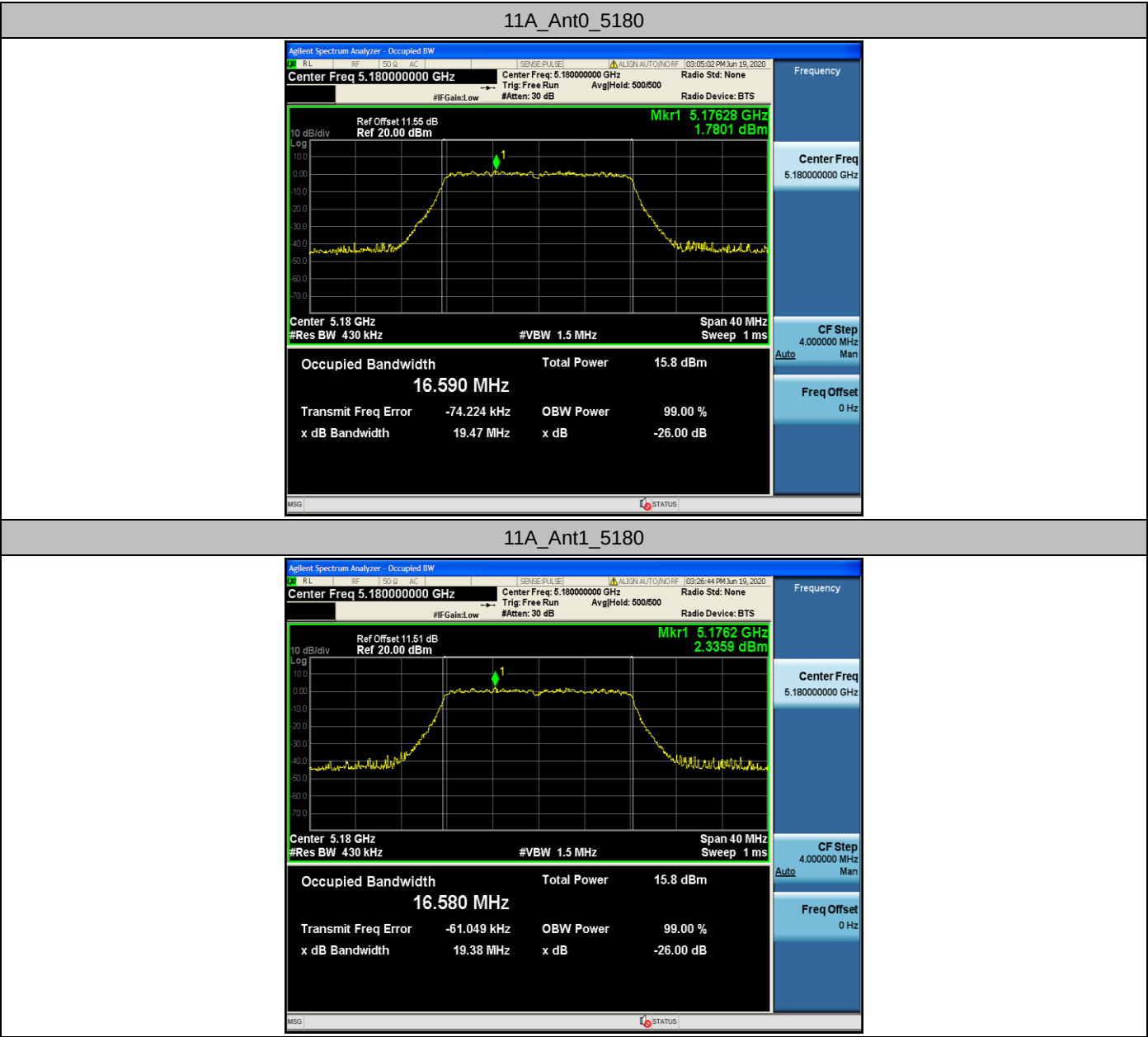


Appendix H: Occupied channel bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant0	5180	16.590	5171.631	5188.221	---	PASS
	Ant1	5180	16.580	5171.649	5188.229	---	PASS
	Ant0	5200	16.572	5191.674	5208.246	---	PASS
	Ant1	5200	16.589	5191.684	5208.273	---	PASS
	Ant0	5240	16.592	5231.647	5248.239	---	PASS
	Ant1	5240	16.605	5231.649	5248.254	---	PASS
11N20MIMO	Ant0	5180	17.740	5171.054	5188.794	---	PASS
	Ant1	5180	17.685	5171.098	5188.783	---	PASS
	Ant0	5200	17.765	5191.065	5208.830	---	PASS
	Ant1	5200	17.714	5191.113	5208.827	---	PASS
	Ant0	5240	17.731	5231.057	5248.788	---	PASS
	Ant1	5240	17.717	5231.103	5248.820	---	PASS
11N40MIMO	Ant0	5190	35.958	5172.096	5208.054	---	PASS
	Ant1	5190	36.034	5172.043	5208.077	---	PASS
	Ant0	5230	35.890	5212.147	5248.037	---	PASS
	Ant1	5230	35.927	5212.082	5248.009	---	PASS
11AC20MIMO	Ant0	5180	17.748	5171.055	5188.803	---	PASS
	Ant1	5180	17.696	5171.092	5188.788	---	PASS
	Ant0	5200	17.757	5191.068	5208.825	---	PASS
	Ant1	5200	17.703	5191.122	5208.825	---	PASS
	Ant0	5240	17.738	5231.051	5248.789	---	PASS
11AC40MIMO	Ant0	5190	35.954	5172.085	5208.039	---	PASS
	Ant1	5190	36.047	5172.048	5208.095	---	PASS
	Ant0	5230	35.933	5212.116	5248.049	---	PASS
	Ant1	5230	35.926	5212.082	5248.008	---	PASS
11AC80MIMO	Ant0	5210	75.931	5172.249	5248.180	---	PASS
	Ant1	5210	75.871	5172.257	5248.128	---	PASS

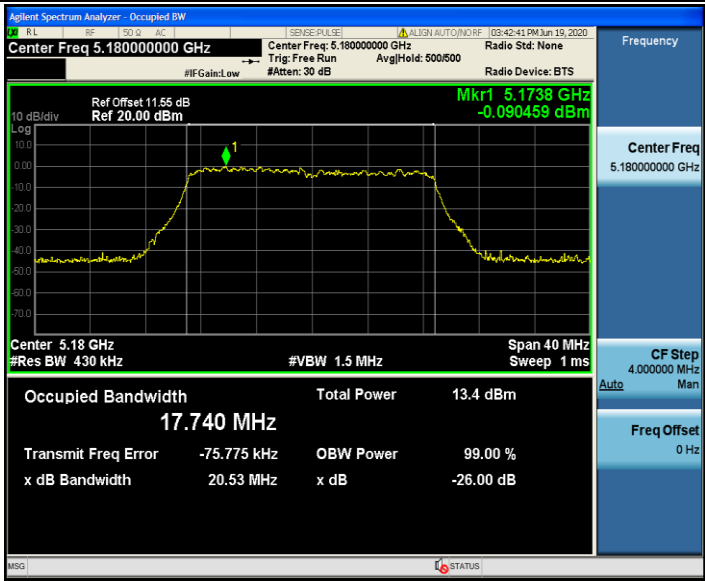
Test Graphs



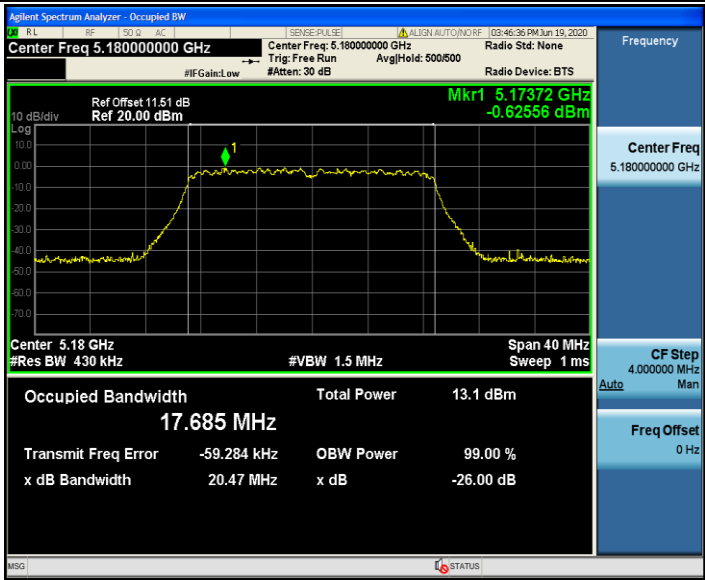




11N20MIMO_Ant0_5180



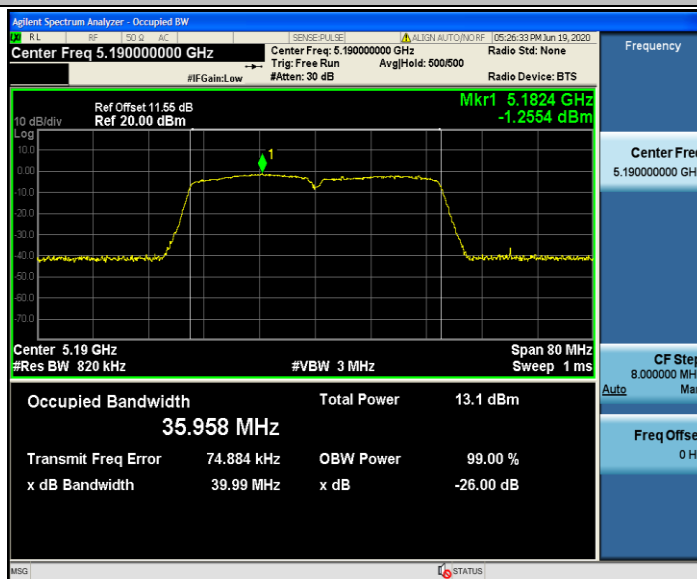
11N20MIMO_Ant1_5180



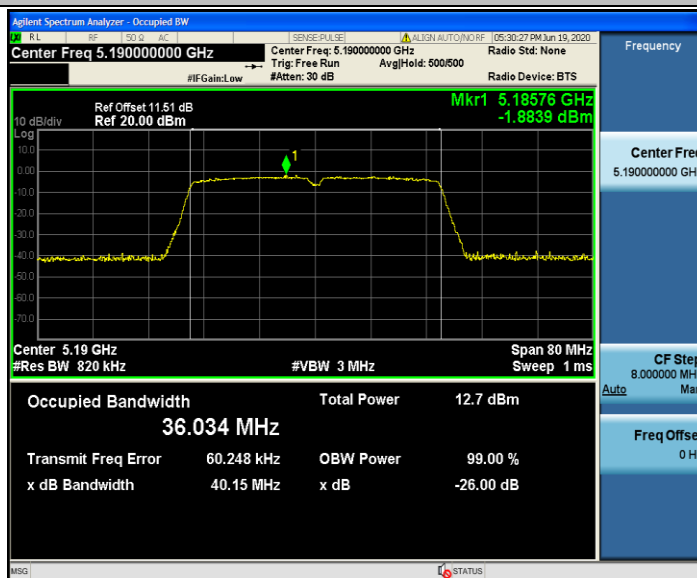




11N40MIMO_Ant0_5190



11N40MIMO_Ant1_5190



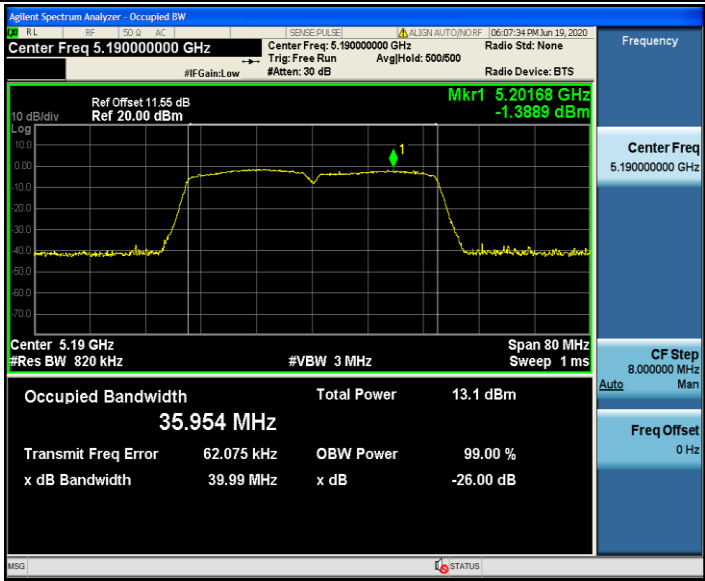




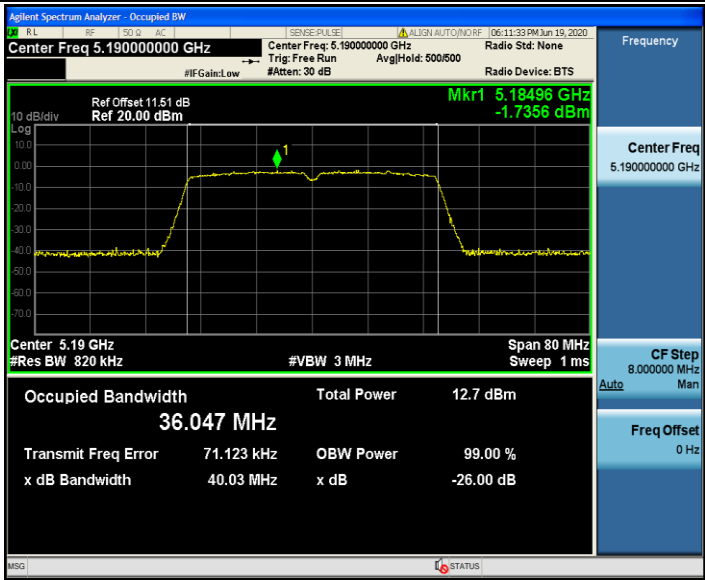




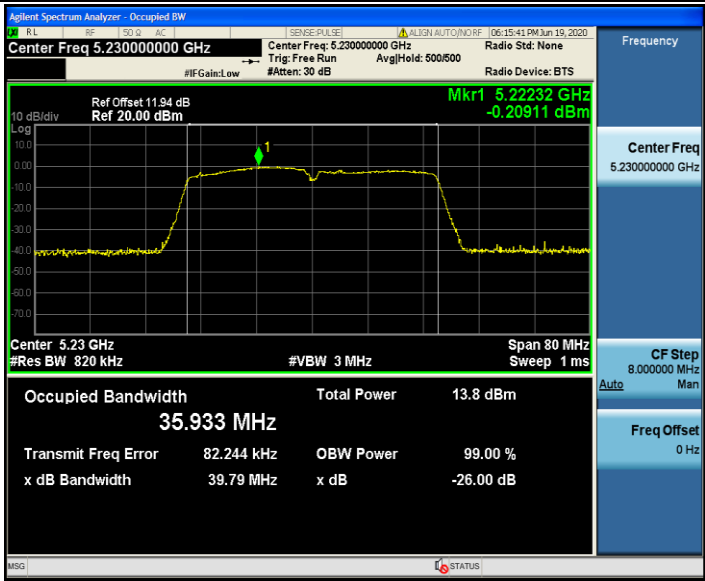
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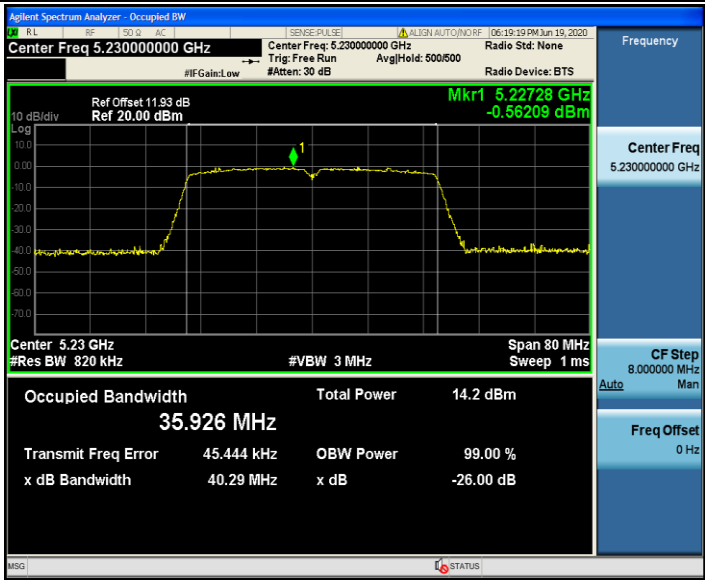
11AC40MIMO_Ant1_5190



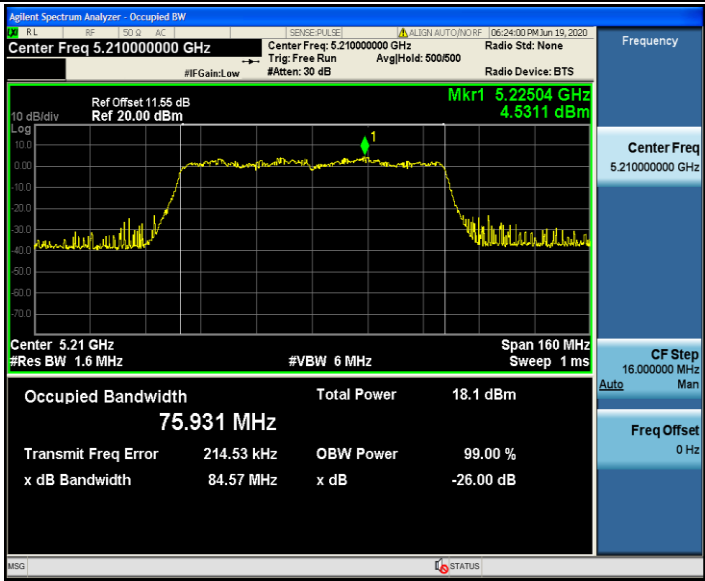
11AC40MIMO_Ant0_5230



11AC40MIMO_Ant1_5230



11AC80MIMO_Ant0_5210



11AC80MIMO_Ant1_5210

