

RF Test Data for WLAN(2.4G) (Conducted Measurement)

Product Name: OTT+DVB

Trade Mark: N/A

Test Model: SH5BFAA

FCC ID: 2AOVU-SH5BFAX

Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	55.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

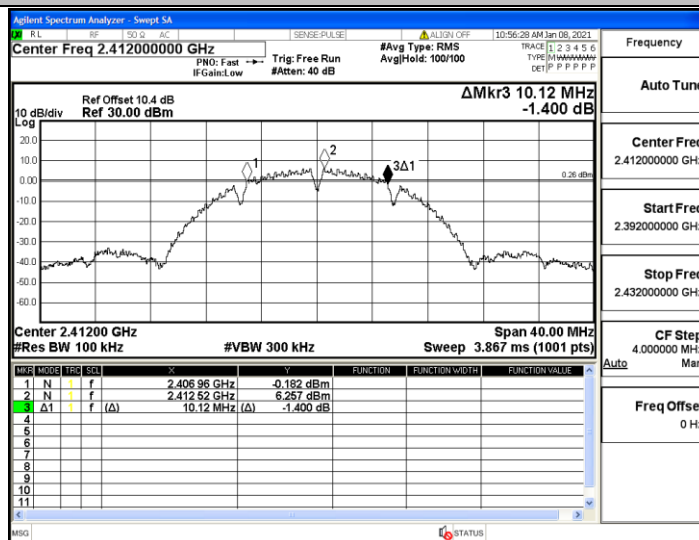
Appendix A: DTS Bandwidth

Test Result

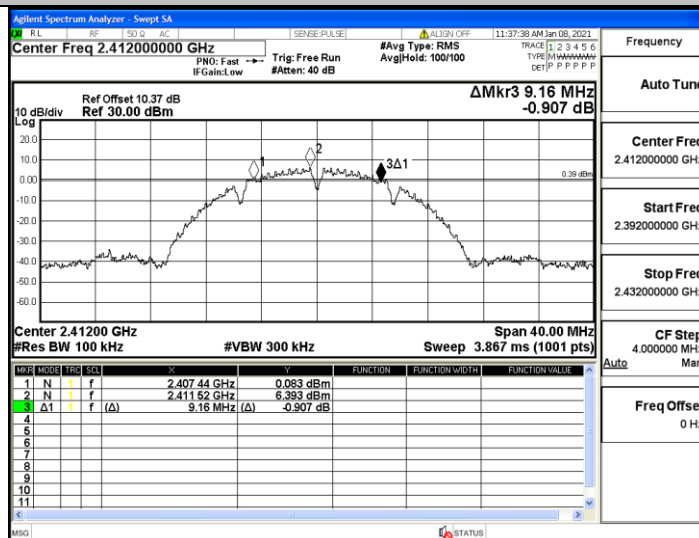
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.120	2406.960	2417.080	0.5	PASS
	Ant2	2412	9.160	2407.440	2416.600	0.5	PASS
	Ant1	2437	9.160	2431.960	2441.120	0.5	PASS
	Ant2	2437	9.640	2431.960	2441.600	0.5	PASS
	Ant1	2462	10.080	2457.000	2467.080	0.5	PASS
	Ant2	2462	9.640	2457.440	2467.080	0.5	PASS
11G	Ant1	2412	14.200	2404.440	2418.640	0.5	PASS
	Ant2	2412	15.720	2403.840	2419.560	0.5	PASS
	Ant1	2437	15.200	2429.400	2444.600	0.5	PASS
	Ant2	2437	15.200	2429.400	2444.600	0.5	PASS
	Ant1	2462	15.120	2454.480	2469.600	0.5	PASS
	Ant2	2462	16.400	2453.840	2470.240	0.5	PASS
11N20MIMO	Ant1	2412	16.040	2404.400	2420.440	0.5	PASS
	Ant2	2412	16.400	2403.800	2420.200	0.5	PASS
	Ant1	2437	15.160	2429.400	2444.560	0.5	PASS
	Ant2	2437	16.720	2428.480	2445.200	0.5	PASS
	Ant1	2462	15.120	2454.480	2469.600	0.5	PASS
	Ant2	2462	16.400	2453.840	2470.240	0.5	PASS
11N40MIMO	Ant1	2422	35.200	2404.400	2439.600	0.5	PASS
	Ant2	2422	35.200	2404.400	2439.600	0.5	PASS
	Ant1	2437	32.720	2419.400	2452.120	0.5	PASS
	Ant2	2437	32.720	2419.400	2452.120	0.5	PASS
	Ant1	2452	35.200	2434.400	2469.600	0.5	PASS
	Ant2	2452	35.200	2434.400	2469.600	0.5	PASS

Test Graphs

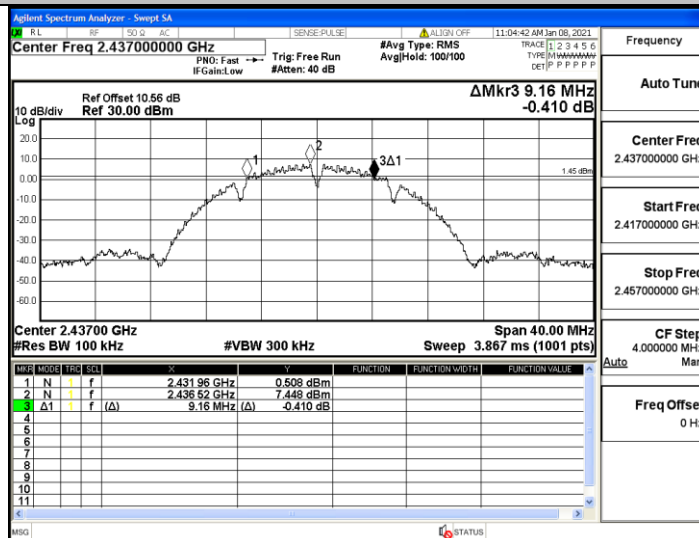
11B_Ant1_2412



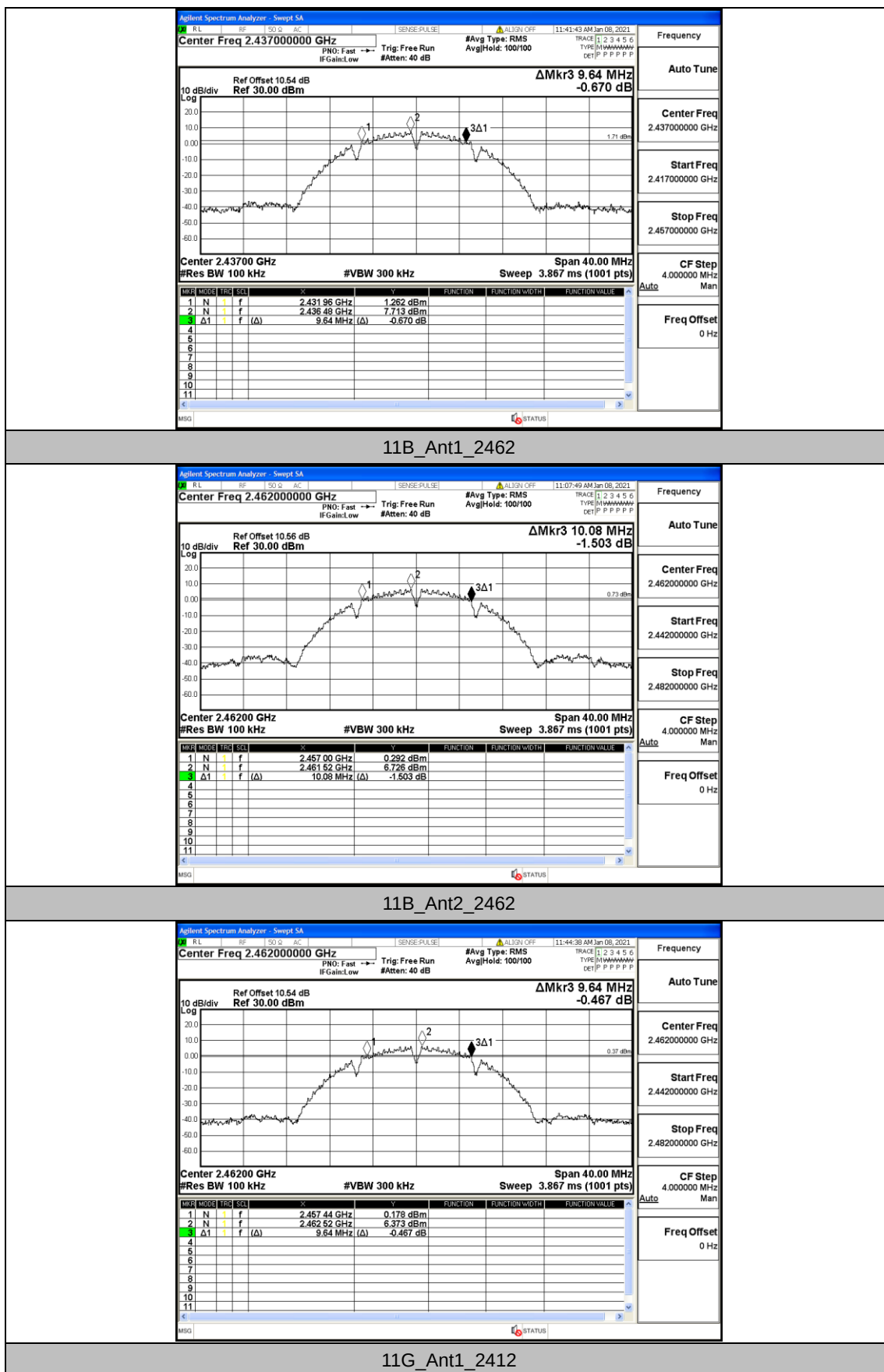
11B_Ant2_2412

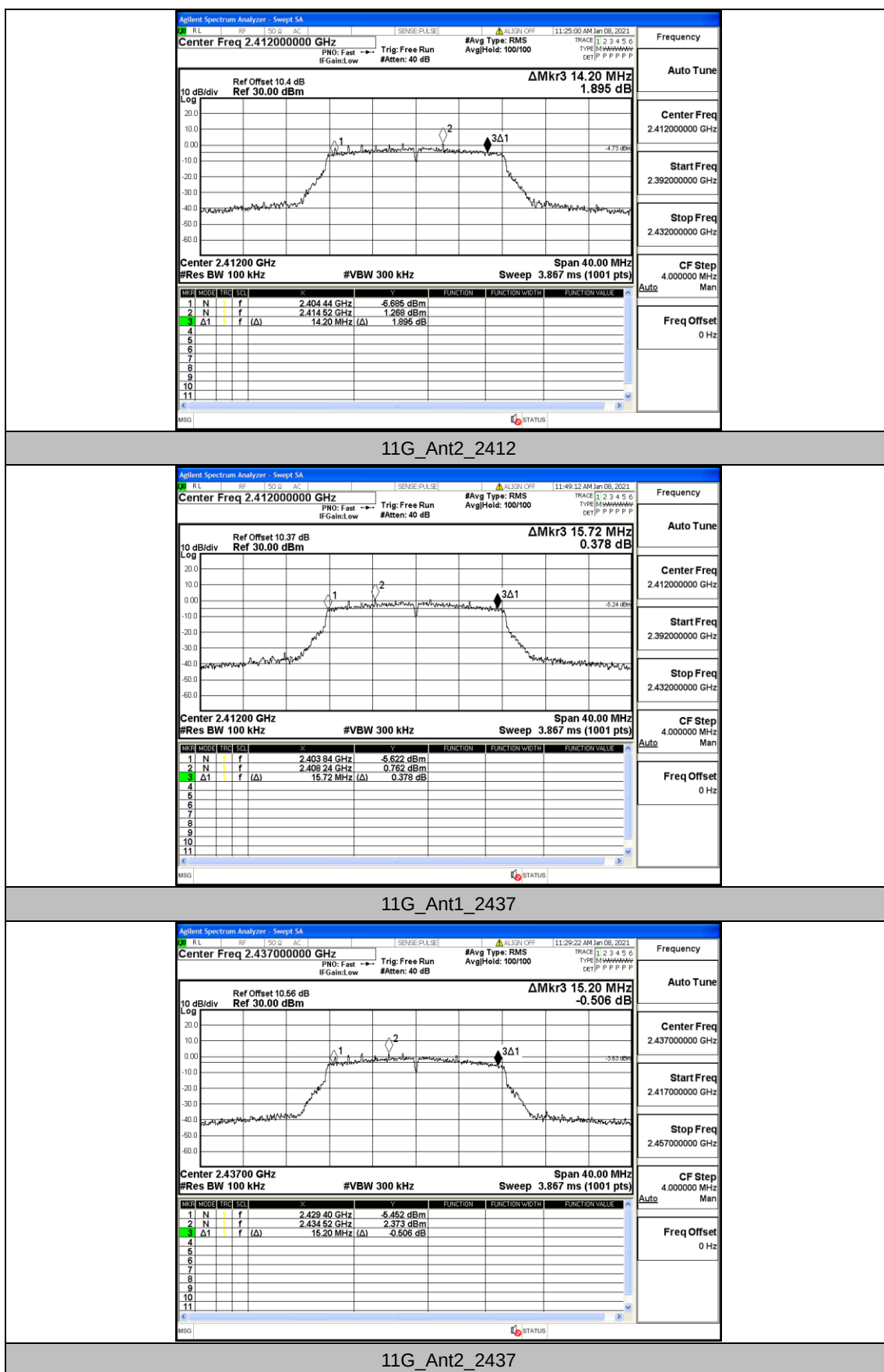


11B_Ant1_2437

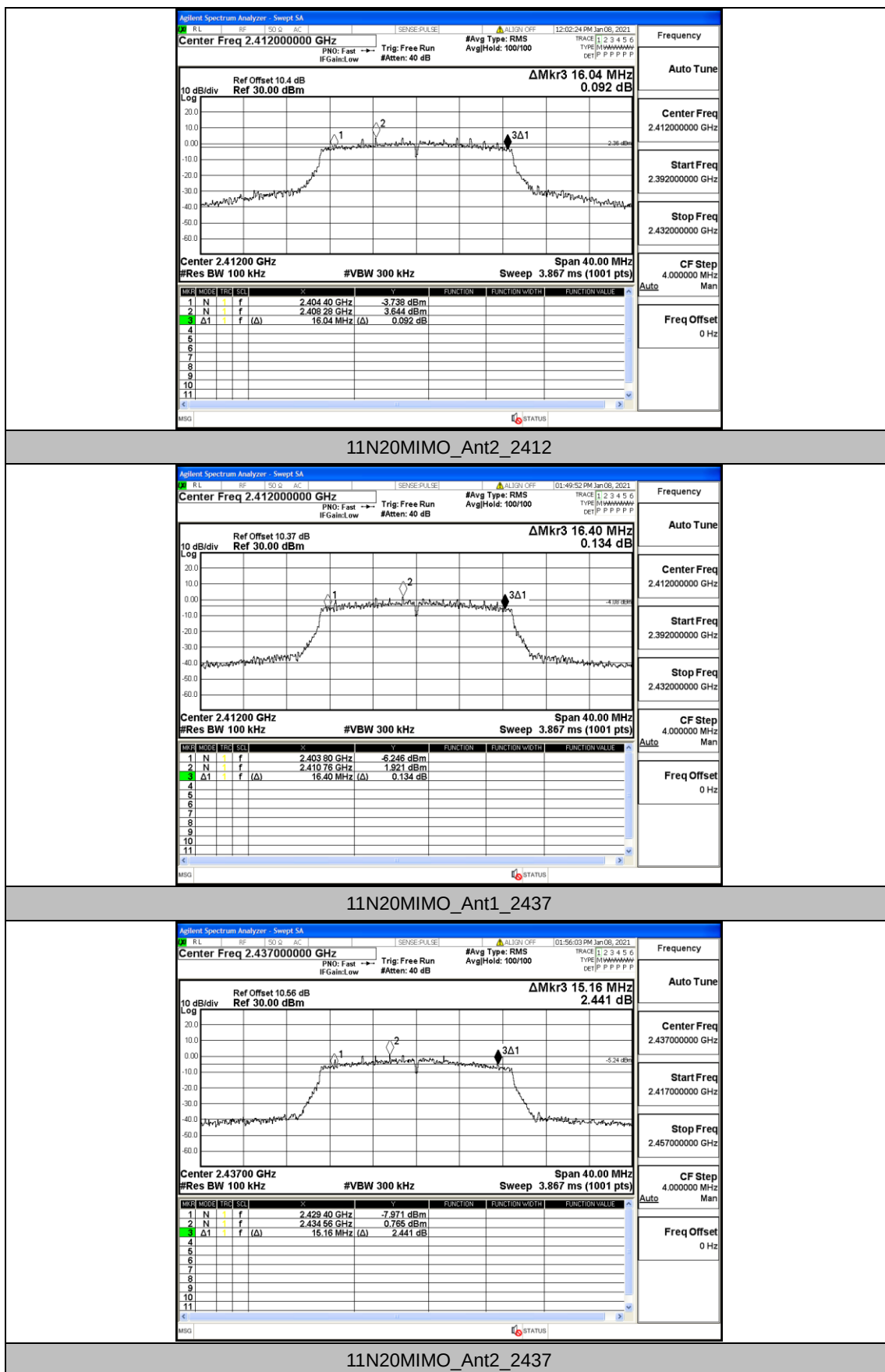


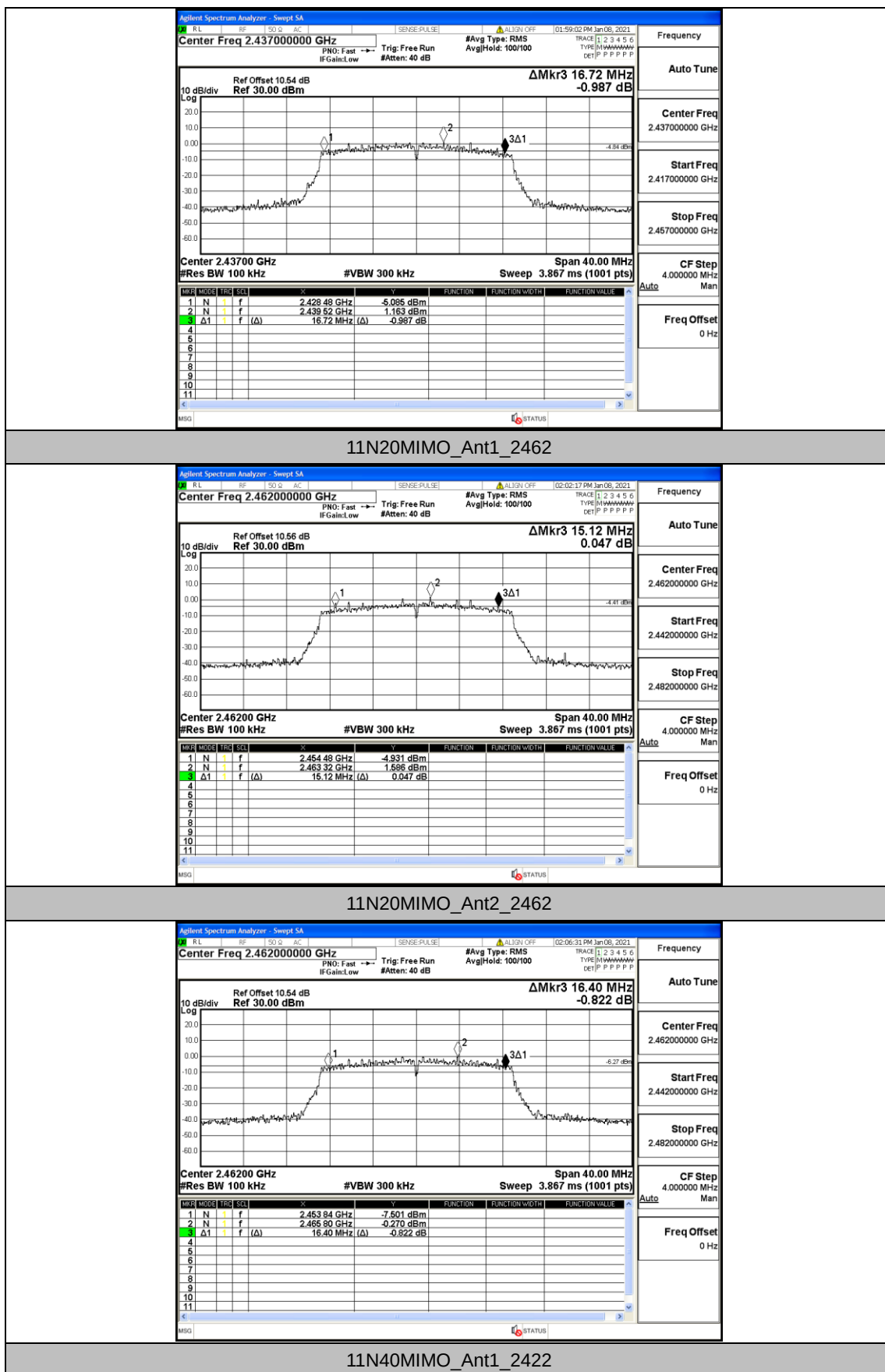
11B_Ant2_2437

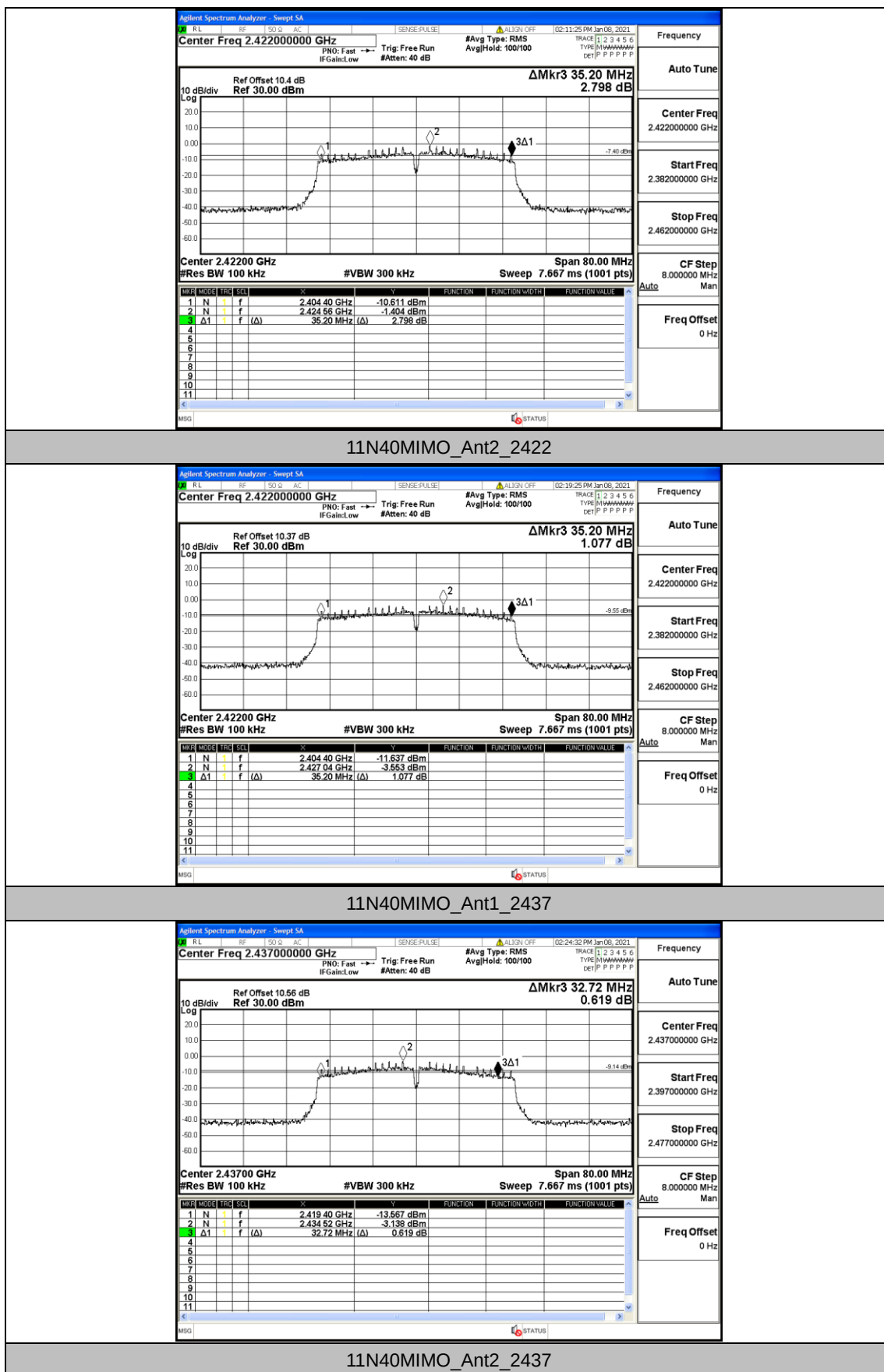


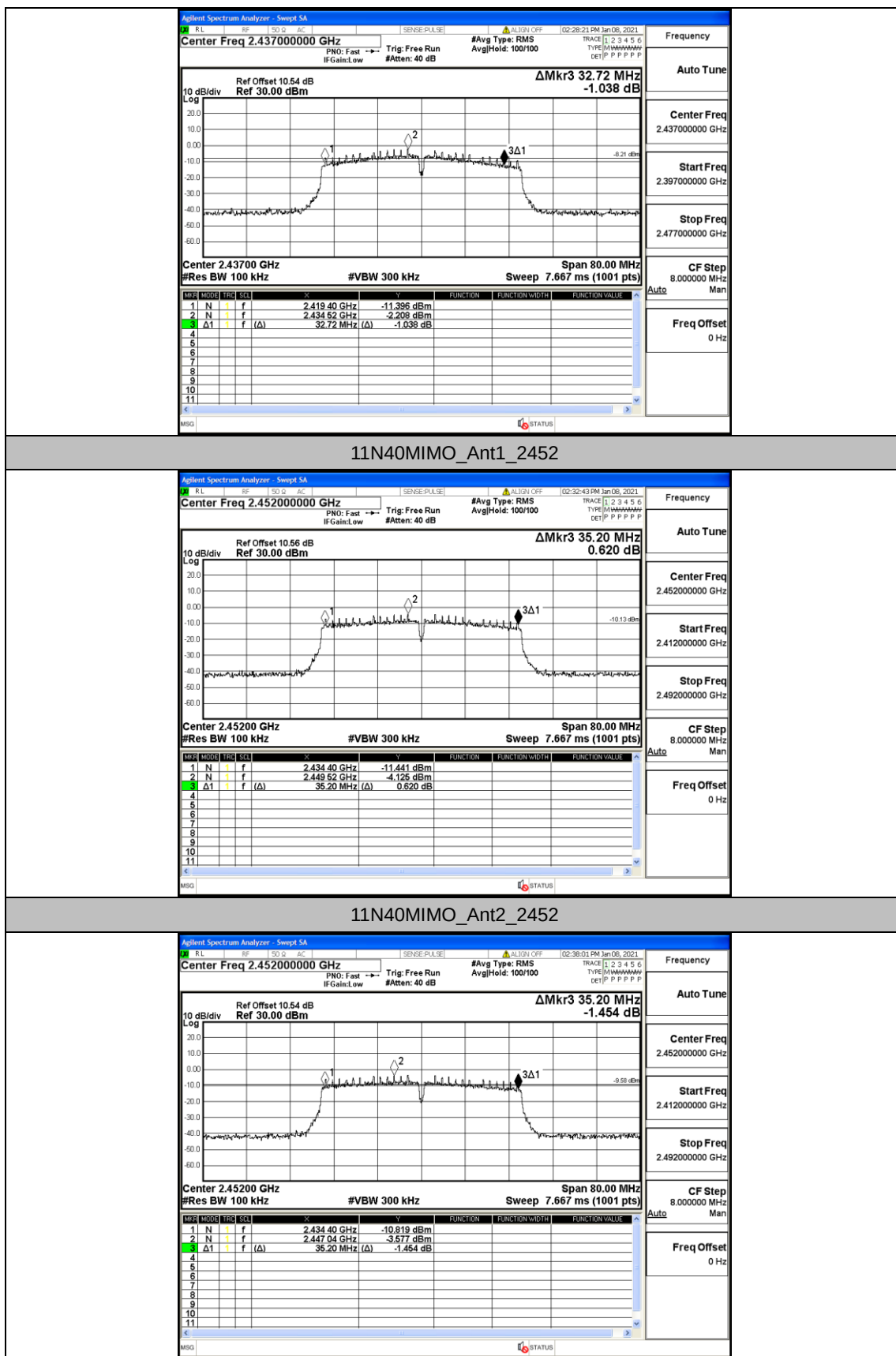










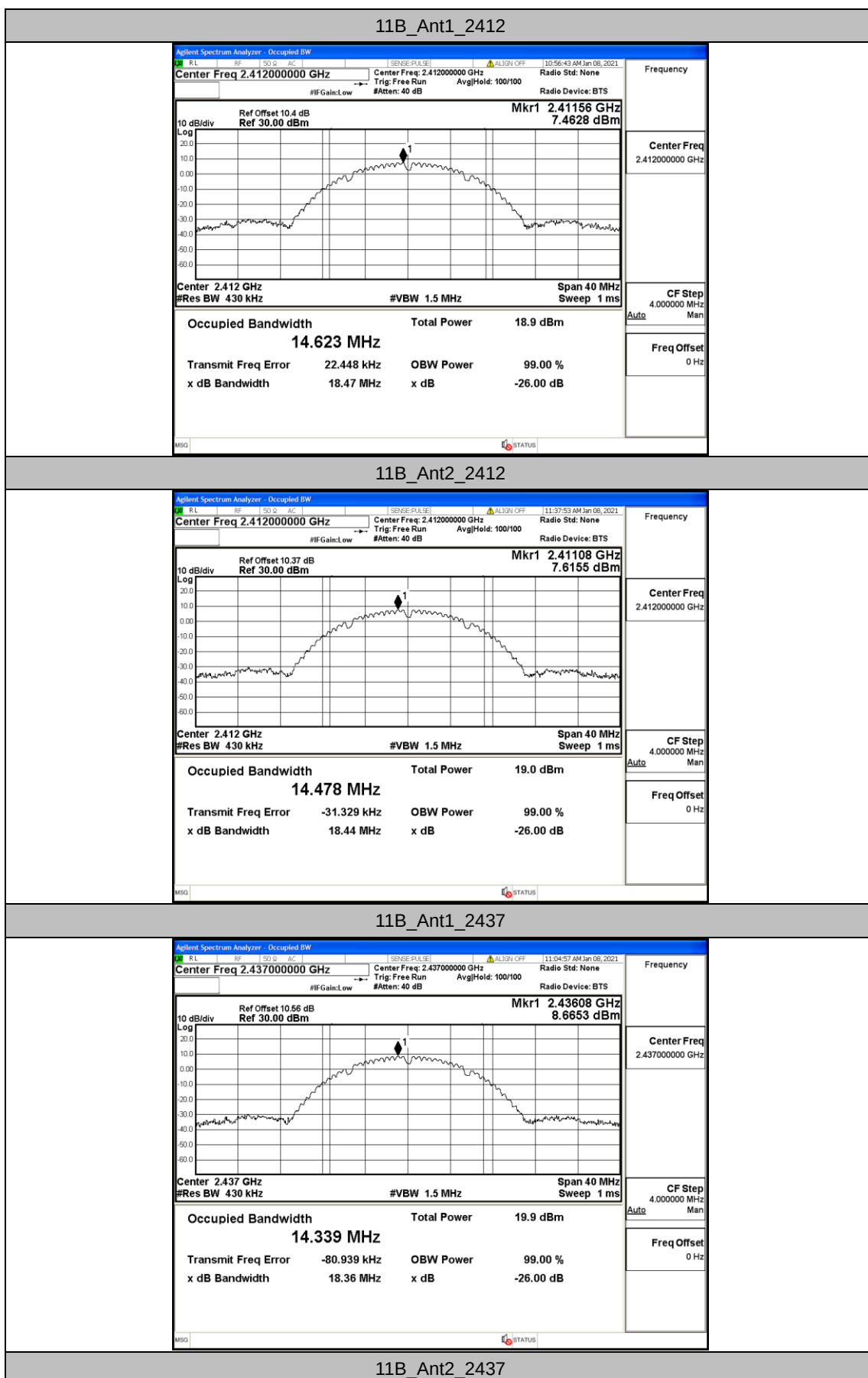


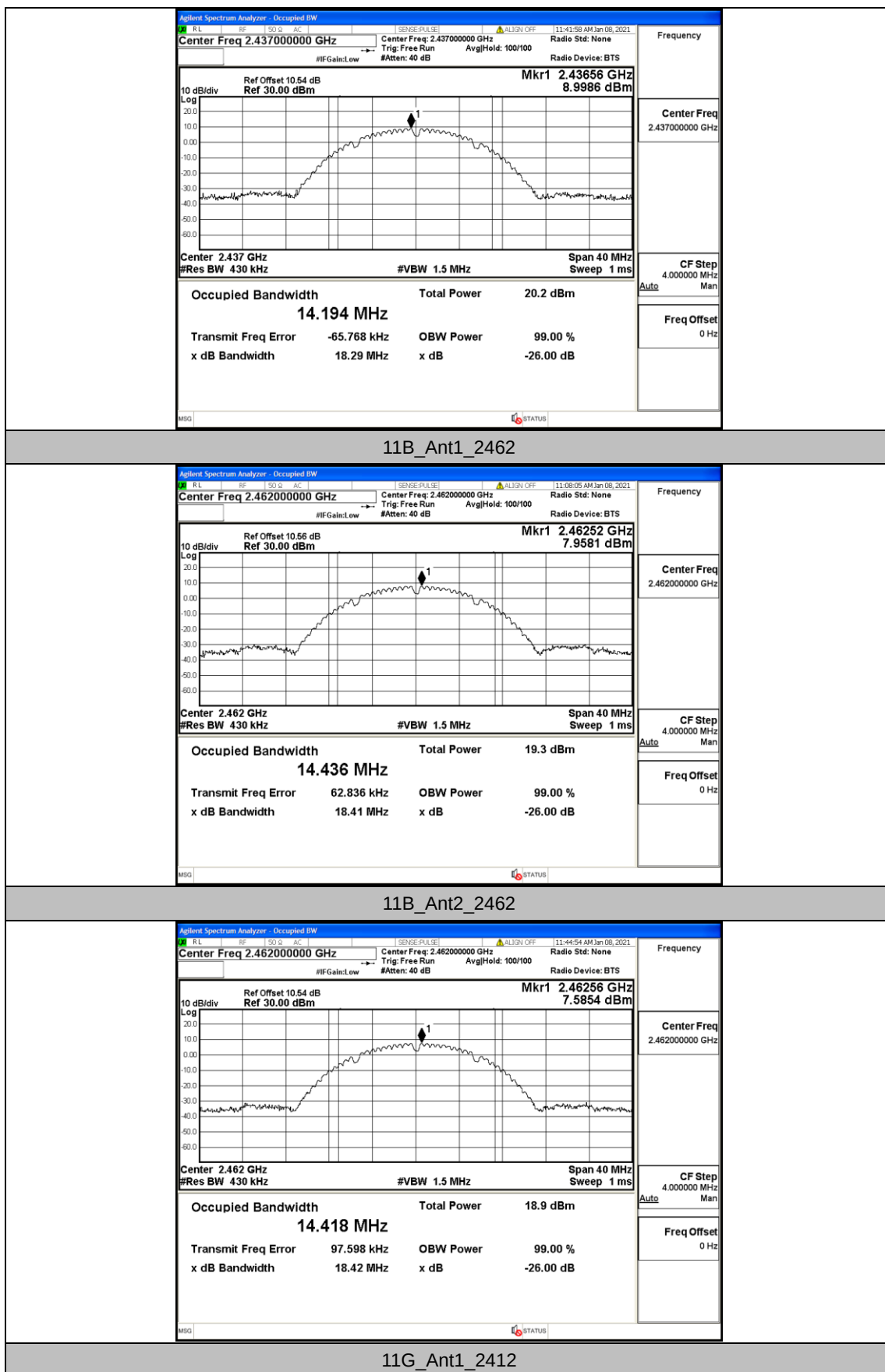
Appendix B: Occupied Channel Bandwidth

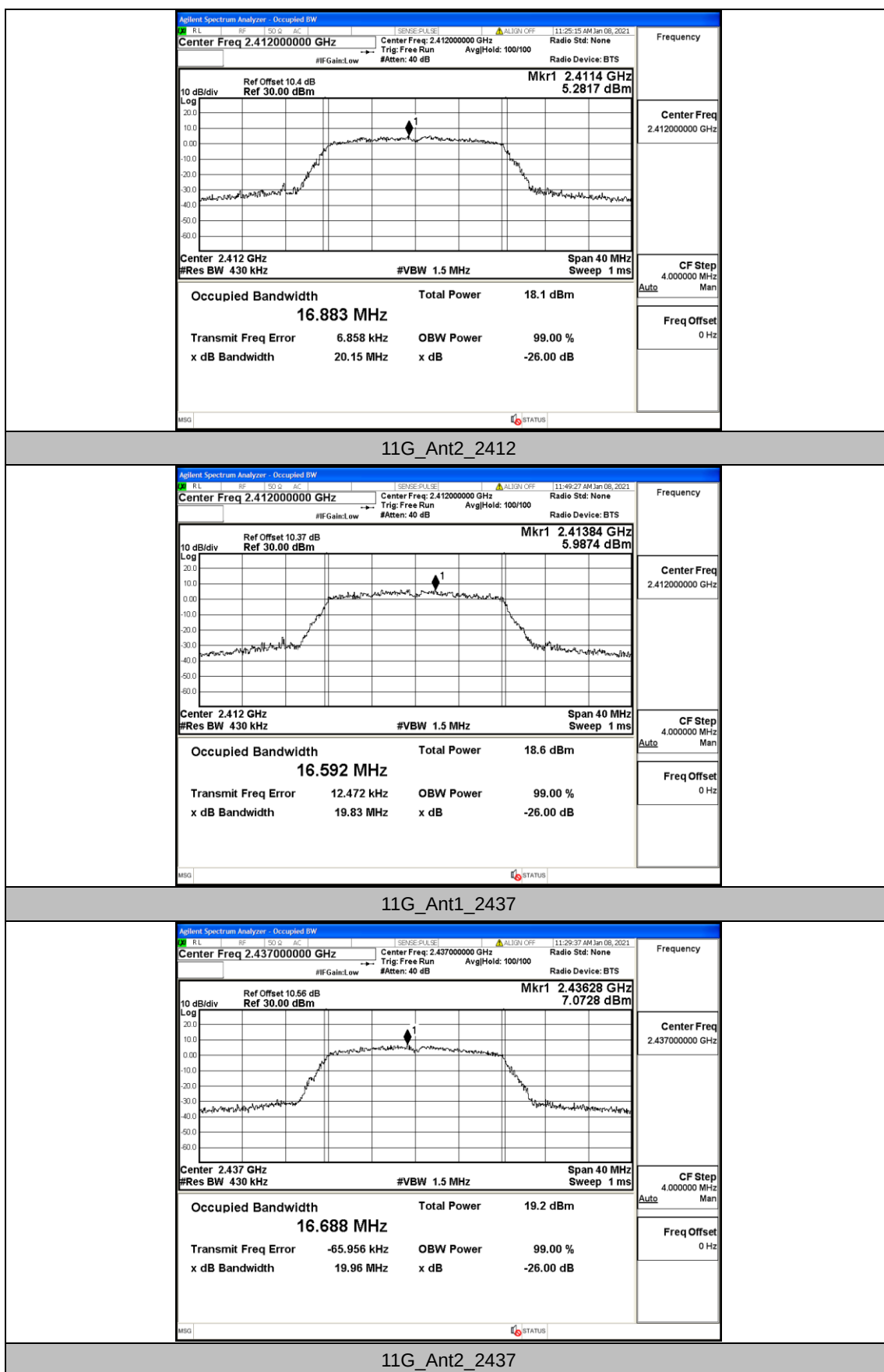
Test Result

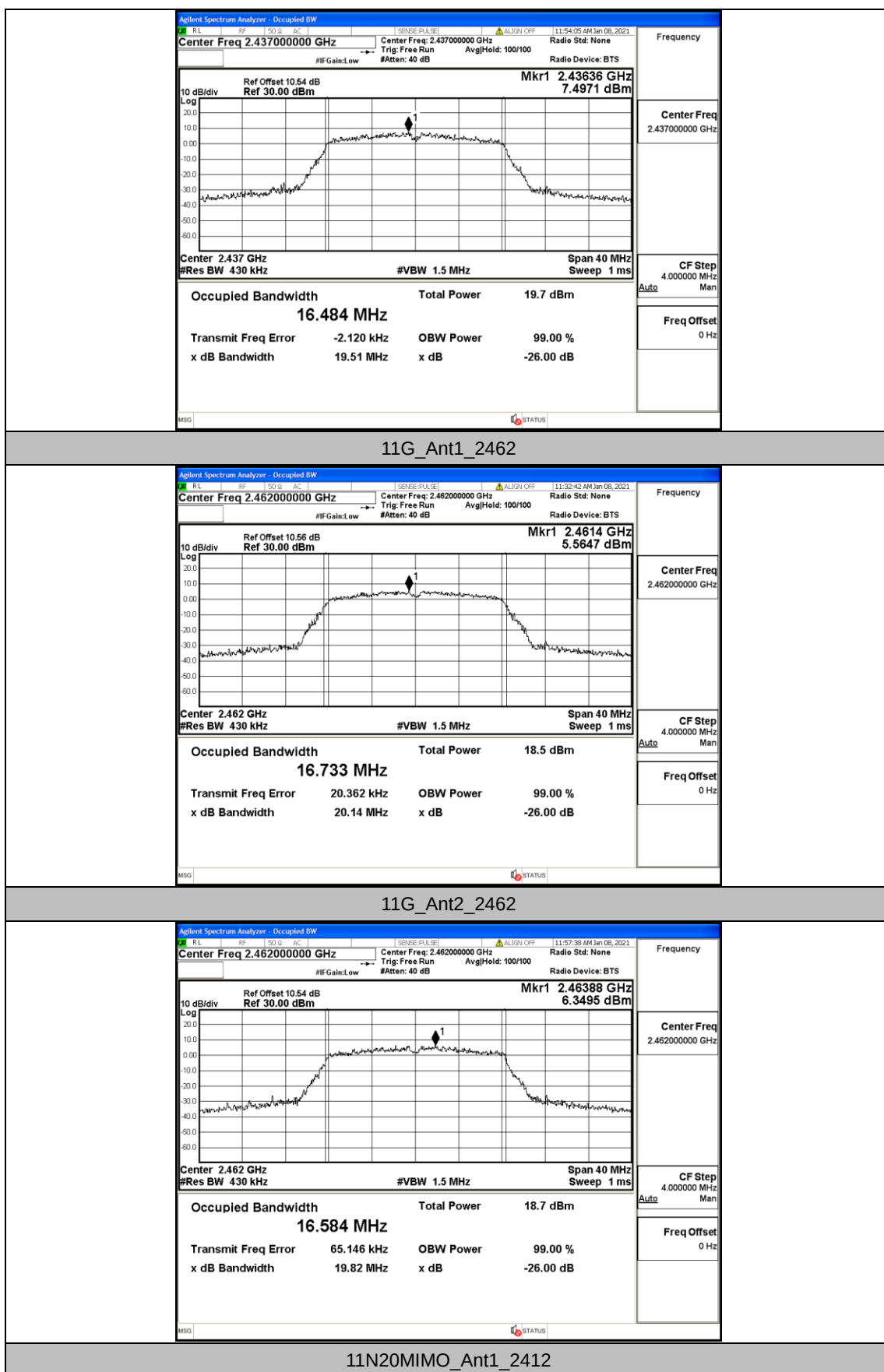
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.623	2404.711	2419.334	---	PASS
	Ant2	2412	14.478	2404.730	2419.208	---	PASS
	Ant1	2437	14.339	2429.750	2444.089	---	PASS
	Ant2	2437	14.194	2429.837	2444.031	---	PASS
	Ant1	2462	14.436	2454.845	2469.281	---	PASS
	Ant2	2462	14.418	2454.889	2469.307	---	PASS
11G	Ant1	2412	16.883	2403.565	2420.448	---	PASS
	Ant2	2412	16.592	2403.716	2420.308	---	PASS
	Ant1	2437	16.688	2428.590	2445.278	---	PASS
	Ant2	2437	16.484	2428.756	2445.240	---	PASS
	Ant1	2462	16.733	2453.654	2470.387	---	PASS
	Ant2	2462	16.584	2453.773	2470.357	---	PASS
11N20MIMO	Ant1	2412	17.870	2403.134	2421.004	---	PASS
	Ant2	2412	17.606	2403.224	2420.830	---	PASS
	Ant1	2437	17.665	2428.154	2445.819	---	PASS
	Ant2	2437	17.481	2428.278	2445.759	---	PASS
	Ant1	2462	17.705	2453.207	2470.912	---	PASS
	Ant2	2462	17.585	2453.276	2470.861	---	PASS
11N40MIMO	Ant1	2422	36.000	2404.069	2440.069	---	PASS
	Ant2	2422	36.034	2404.024	2440.058	---	PASS
	Ant1	2437	35.948	2419.060	2455.008	---	PASS
	Ant2	2437	35.807	2419.093	2454.900	---	PASS
	Ant1	2452	36.198	2433.913	2470.111	---	PASS
	Ant2	2452	36.146	2433.914	2470.060	---	PASS

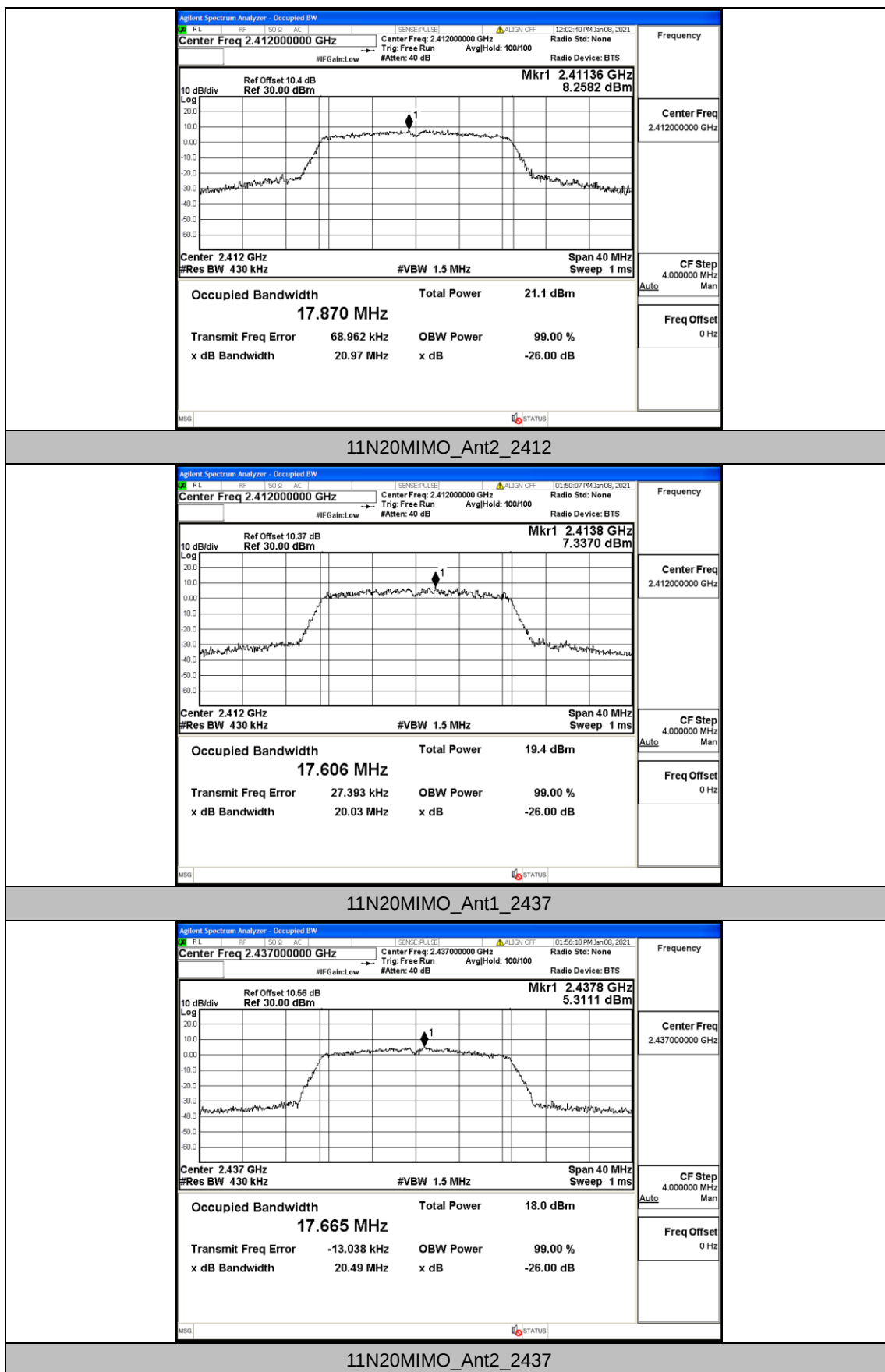
Test Graphs

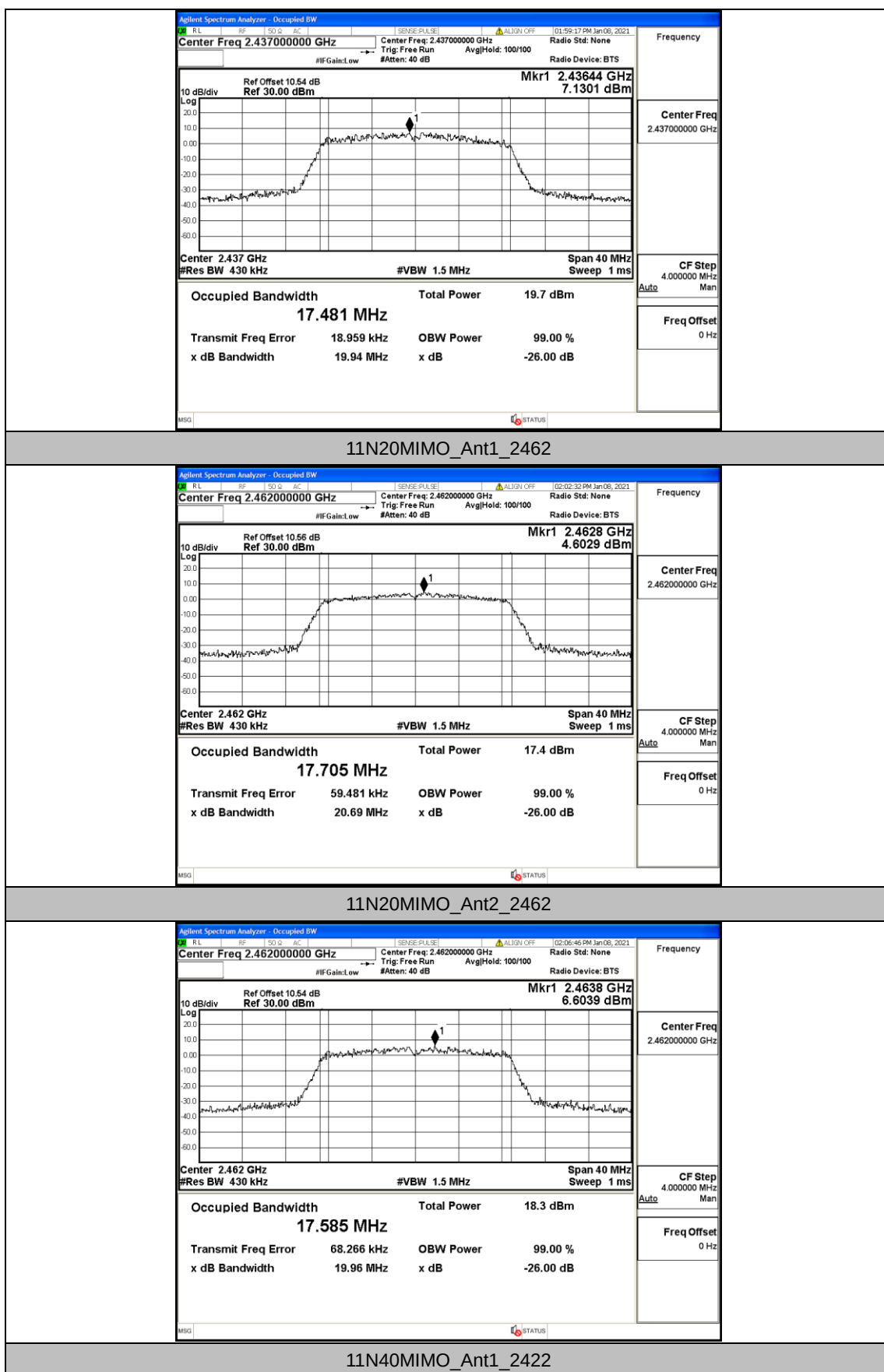


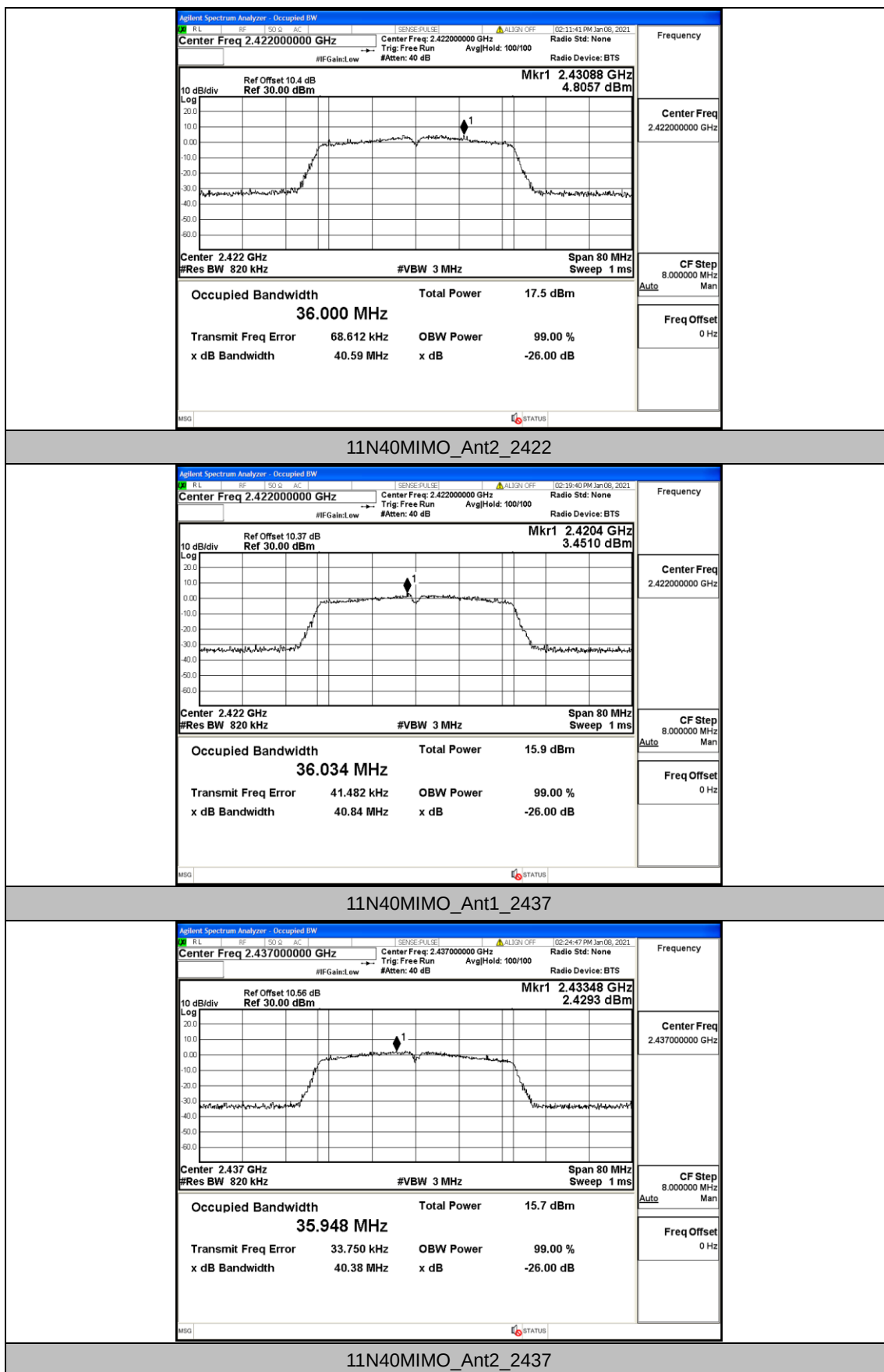


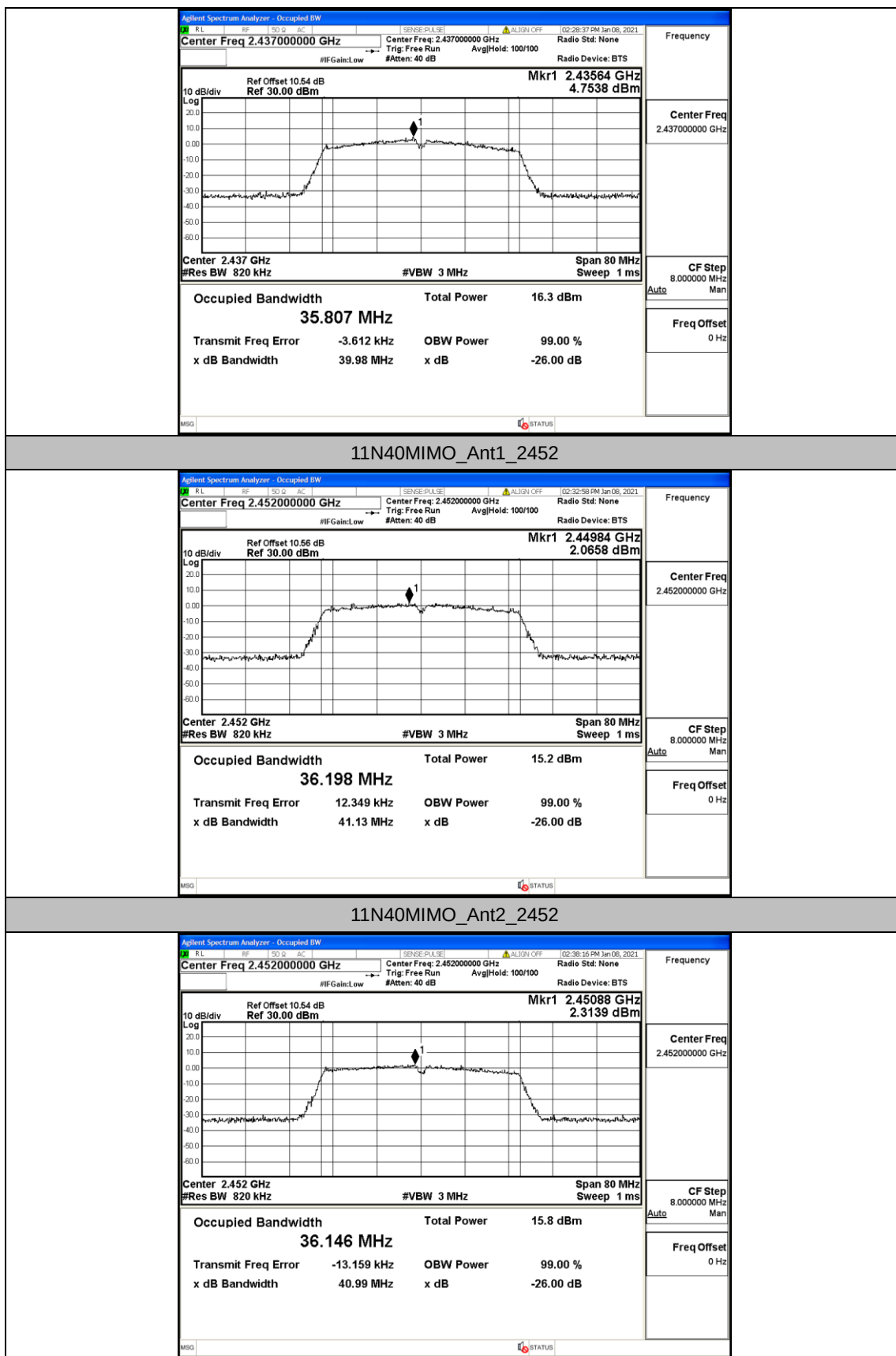












Appendix C: Maximum conducted output power

Test Result

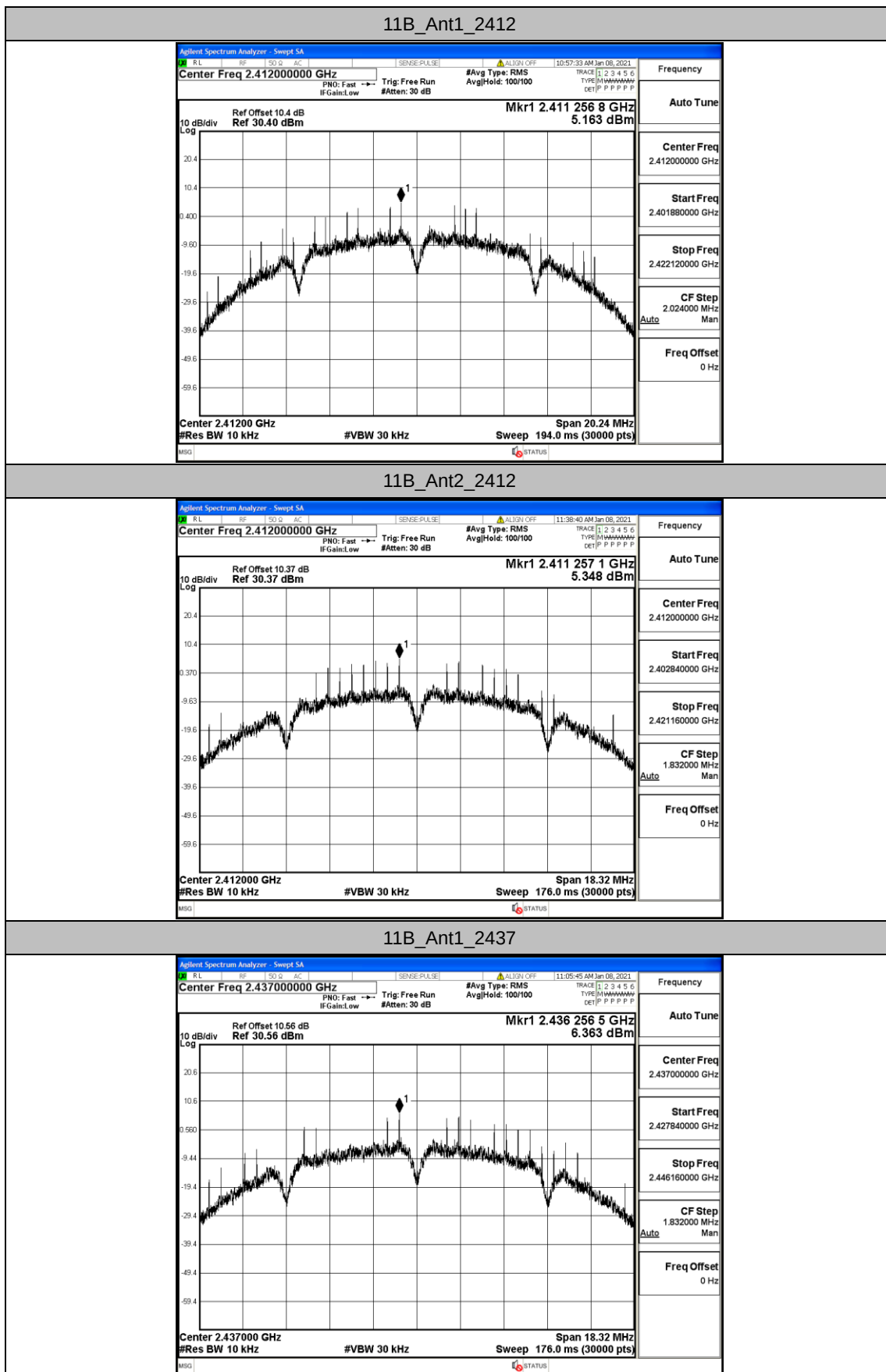
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	18.54	<=30.00	PASS
	Ant2	2412	18.50	<=30.00	PASS
	Ant1	2437	19.41	<=30.00	PASS
	Ant2	2437	19.84	<=30.00	PASS
	Ant1	2462	18.96	<=30.00	PASS
	Ant2	2462	18.50	<=30.00	PASS
11G	Ant1	2412	18.76	<=30.00	PASS
	Ant2	2412	19.56	<=30.00	PASS
	Ant1	2437	20.16	<=30.00	PASS
	Ant2	2437	20.59	<=30.00	PASS
	Ant1	2462	19.40	<=30.00	PASS
	Ant2	2462	19.56	<=30.00	PASS
11N20MIMO	Ant1	2412	18.89	<=30.00	PASS
	Ant2	2412	19.81	<=30.00	PASS
	total	2412	22.4	<=30.00	PASS
	Ant1	2437	18.83	<=30.00	PASS
	Ant2	2437	20.13	<=30.00	PASS
	total	2437	22.5	<=30.00	PASS
	Ant1	2462	18.25	<=30.00	PASS
	Ant2	2462	18.79	<=30.00	PASS
	total	2462	21.5	<=30.00	PASS
11N40MIMO	Ant1	2422	15.55	<=30.00	PASS
	Ant2	2422	16.01	<=30.00	PASS
	total	2422	18.8	<=30.00	PASS
	Ant1	2437	15.74	<=30.00	PASS
	Ant2	2437	16.29	<=30.00	PASS
	total	2437	19.0	<=30.00	PASS
	Ant1	2452	15.22	<=30.00	PASS
	Ant2	2452	15.81	<=30.00	PASS
	total	2452	18.5	<=30.00	PASS

Appendix D: Maximum power spectral density

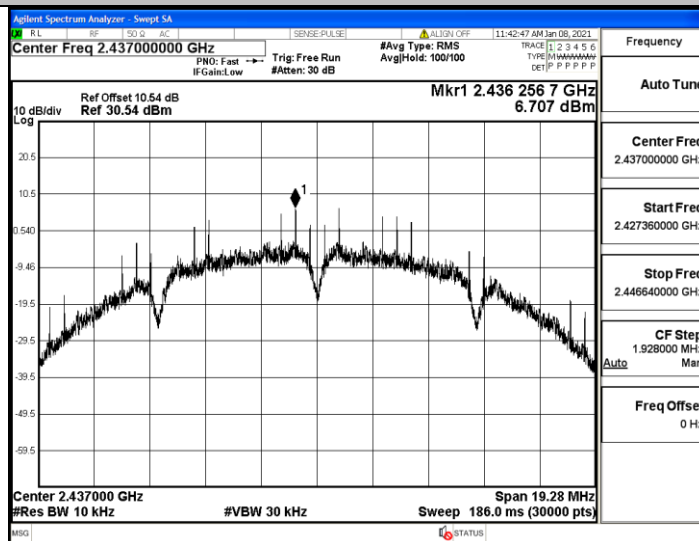
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	5.16	<=8	PASS
	Ant2	2412	5.35	<=8	PASS
	Ant1	2437	6.36	<=8	PASS
	Ant2	2437	6.71	<=8	PASS
	Ant1	2462	4.76	<=8	PASS
	Ant2	2462	5.31	<=8	PASS
11G	Ant1	2412	-8.1	<=8	PASS
	Ant2	2412	-6.42	<=8	PASS
	Ant1	2437	-6.35	<=8	PASS
	Ant2	2437	-5.96	<=8	PASS
	Ant1	2462	-5.91	<=8	PASS
	Ant2	2462	-7.26	<=8	PASS
11N20MIMO	Ant1	2412	-7.71	<=8	PASS
	Ant2	2412	-6.07	<=8	PASS
	total	2412	-3.80	<=8	PASS
	Ant1	2437	-6.21	<=8	PASS
	Ant2	2437	-4.76	<=8	PASS
	total	2437	-2.41	<=8	PASS
	Ant1	2462	-7.52	<=8	PASS
	Ant2	2462	-7.8	<=8	PASS
	total	2462	-4.65	<=8	PASS
11N40MIMO	Ant1	2422	-11.77	<=8	PASS
	Ant2	2422	-11.94	<=8	PASS
	total	2422	-8.84	<=8	PASS
	Ant1	2437	-11.6	<=8	PASS
	Ant2	2437	-11.27	<=8	PASS
	total	2437	-8.42	<=8	PASS
	Ant1	2452	-12.59	<=8	PASS
	Ant2	2452	-13.08	<=8	PASS
	total	2452	-9.82	<=8	PASS

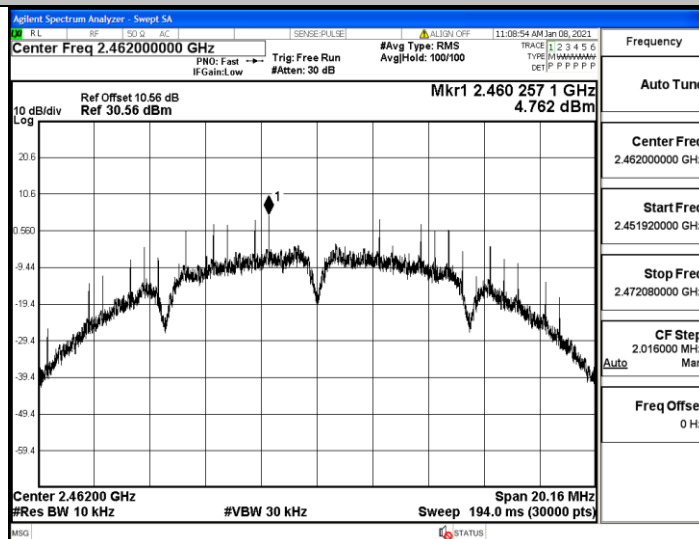
Test Graphs



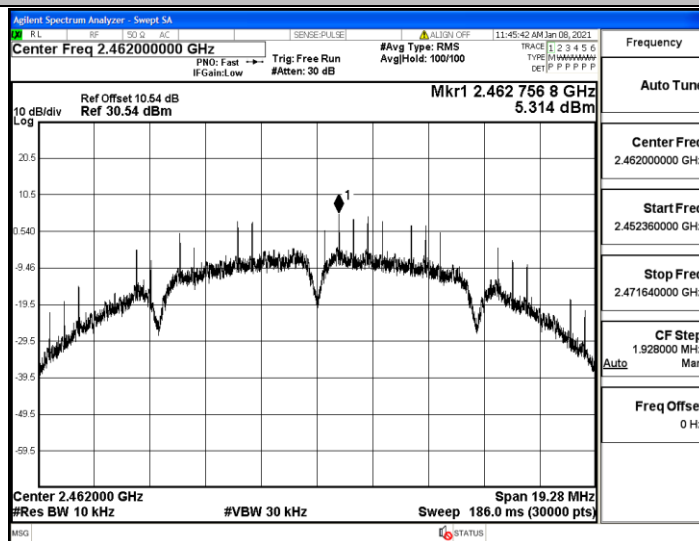
11B_Ant2_2437



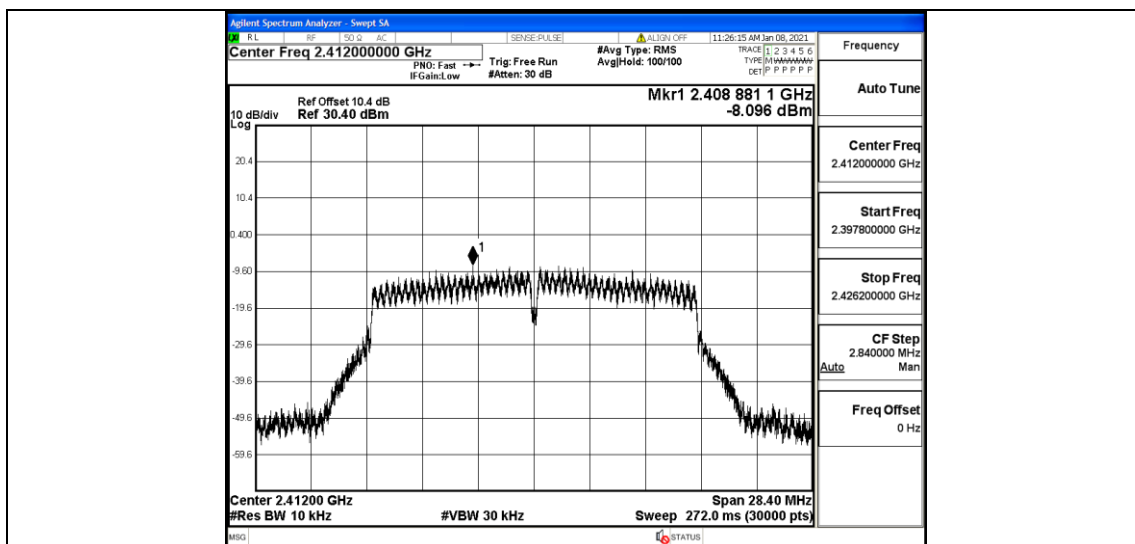
11B_Ant1_2462



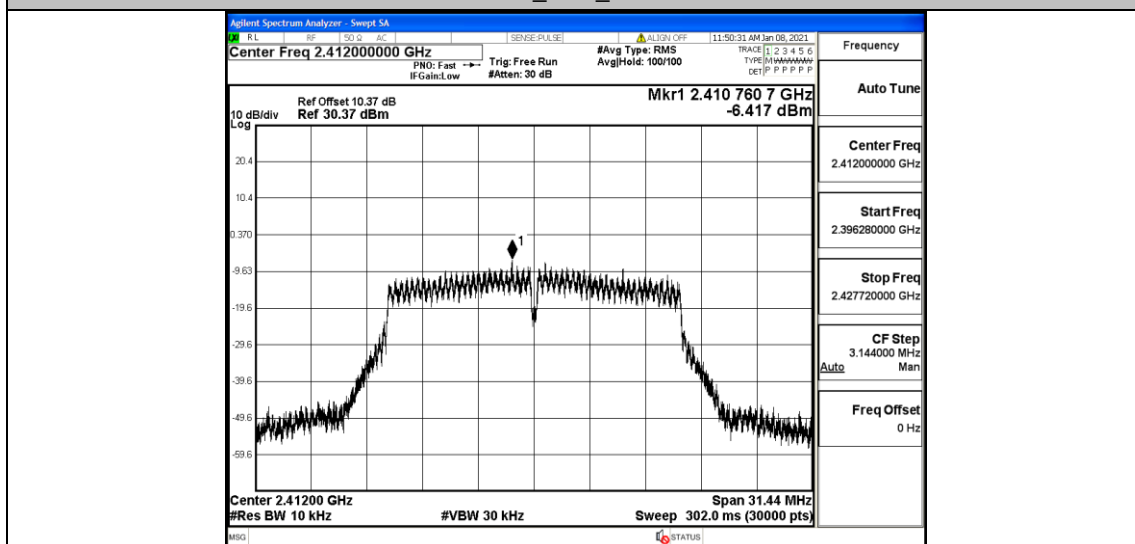
11B_Ant2_2462



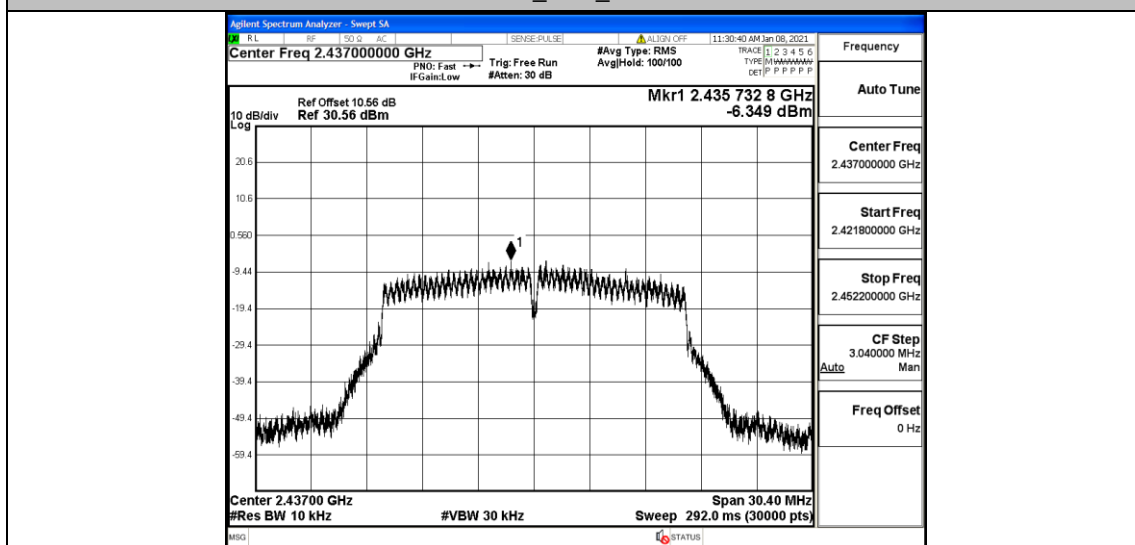
11G_Ant1_2412



11G_Ant2_2412



11G_Ant1_2437



11G_Ant2_2437

