

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

Product Name: 4K OTT BOX

Trade Mark: N/A

Test Model: SX5BEL SEI600HM4 BOXQ

FCC ID: 2A0VU-SX5BEX

### Environmental Conditions

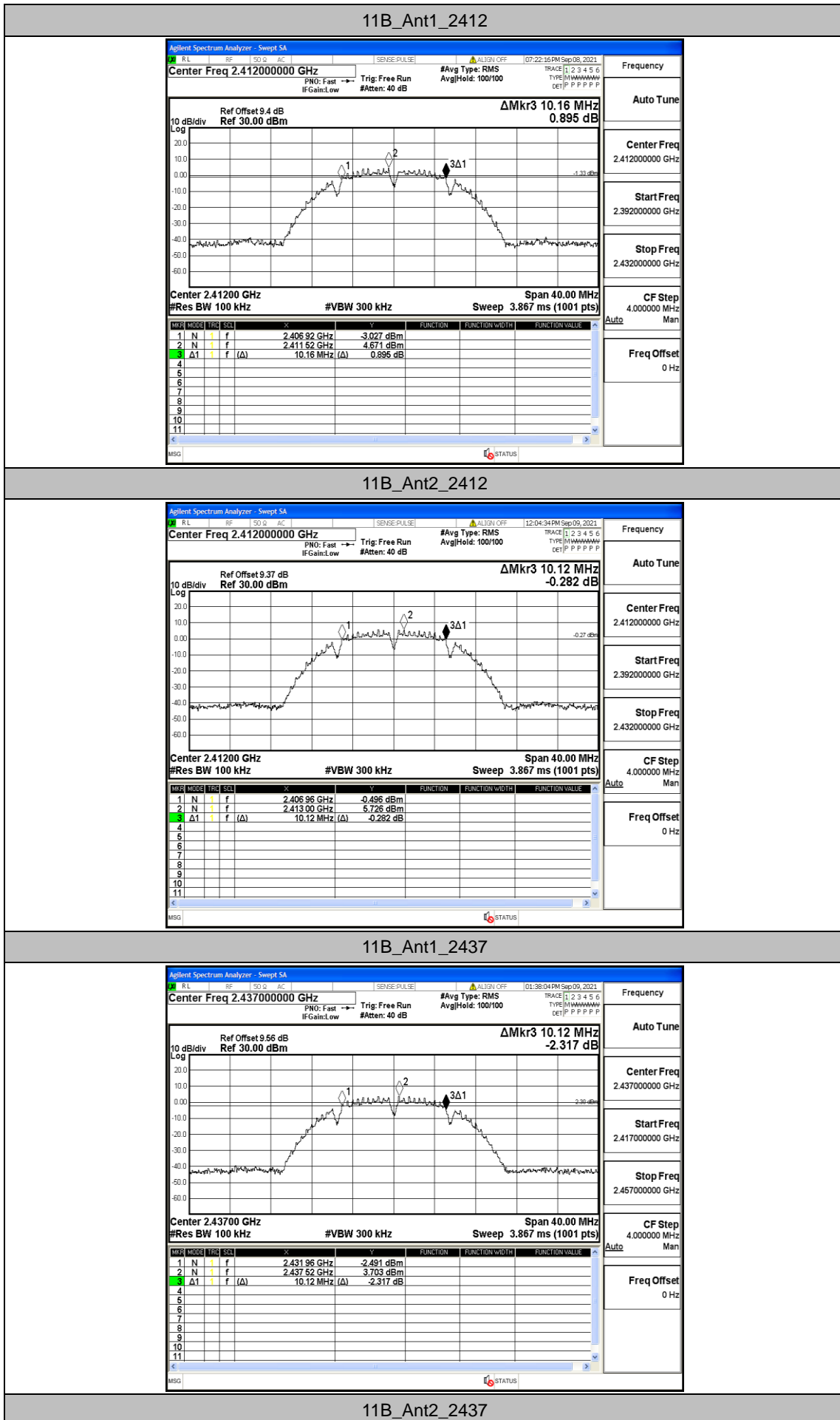
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

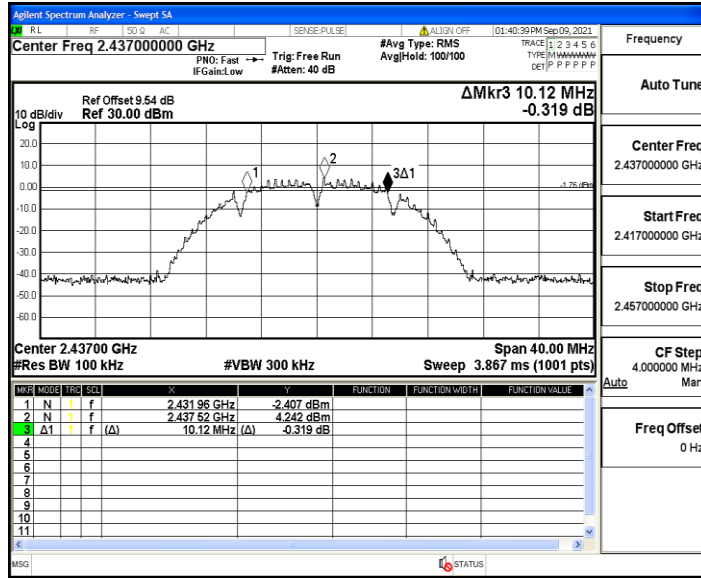
## Appendix A: DTS Bandwidth

### Test Result

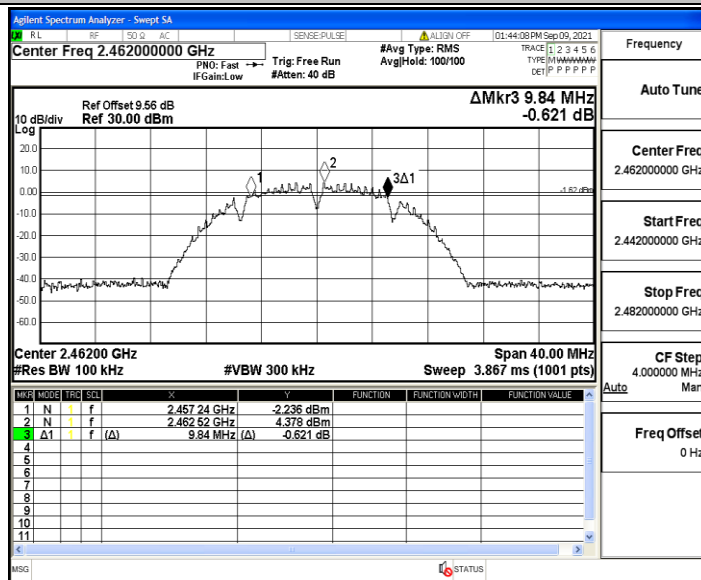
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.160	2406.920	2417.080	0.5	PASS
	Ant2	2412	10.120	2406.960	2417.080	0.5	PASS
	Ant1	2437	10.120	2431.960	2442.080	0.5	PASS
	Ant2	2437	10.120	2431.960	2442.080	0.5	PASS
	Ant1	2462	9.840	2457.240	2467.080	0.5	PASS
	Ant2	2462	10.160	2456.920	2467.080	0.5	PASS
11G	Ant1	2412	16.040	2403.800	2419.840	0.5	PASS
	Ant2	2412	16.360	2403.840	2420.200	0.5	PASS
	Ant1	2437	16.040	2428.800	2444.840	0.5	PASS
	Ant2	2437	15.960	2428.840	2444.800	0.5	PASS
	Ant1	2462	16.360	2453.840	2470.200	0.5	PASS
	Ant2	2462	14.760	2454.200	2468.960	0.5	PASS
11N20MIMO	Ant1	2412	16.680	2403.840	2420.520	0.5	PASS
	Ant2	2412	16.640	2403.840	2420.480	0.5	PASS
	Ant1	2437	16.760	2428.440	2445.200	0.5	PASS
	Ant2	2437	17.640	2428.160	2445.800	0.5	PASS
	Ant1	2462	17.120	2453.440	2470.560	0.5	PASS
	Ant2	2462	16.120	2453.840	2469.960	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	35.680	2419.000	2454.680	0.5	PASS
	Ant2	2437	35.760	2419.080	2454.840	0.5	PASS
	Ant1	2452	35.280	2434.400	2469.680	0.5	PASS
	Ant2	2452	35.200	2434.400	2469.600	0.5	PASS

Test Graphs

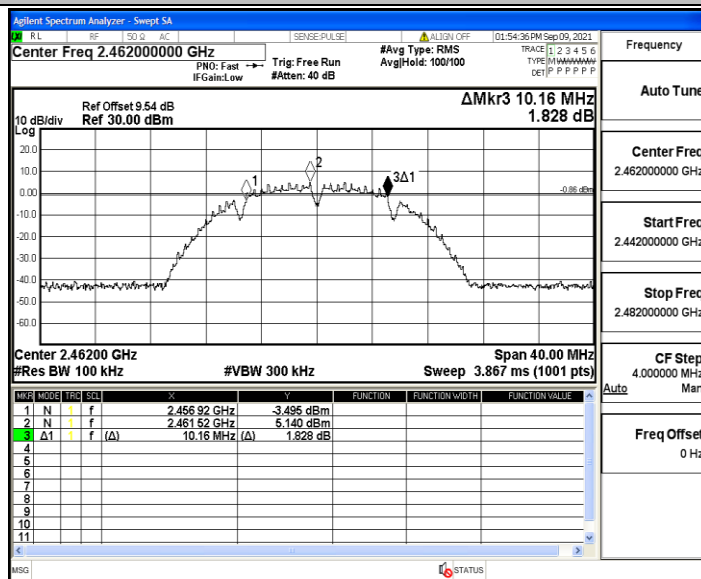




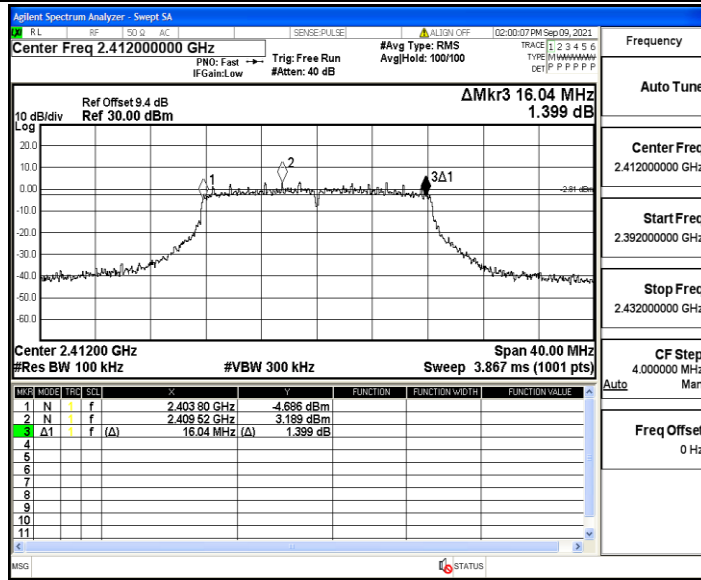
11B\_Ant1\_2462



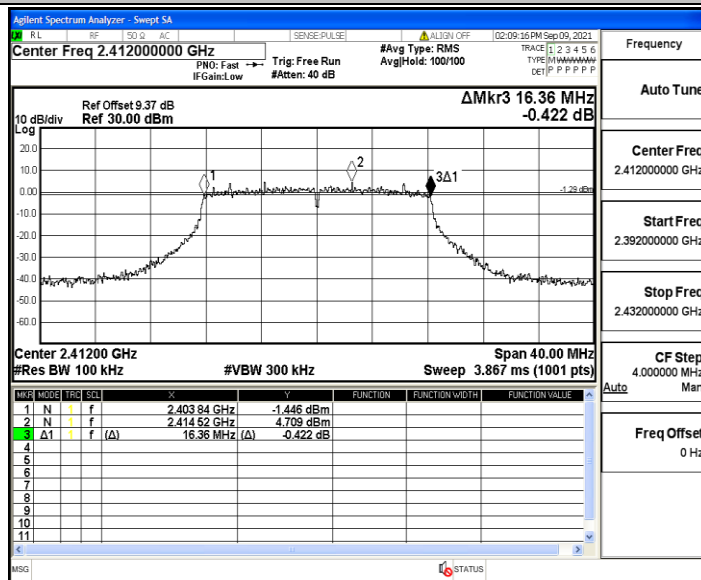
11B\_Ant2\_2462



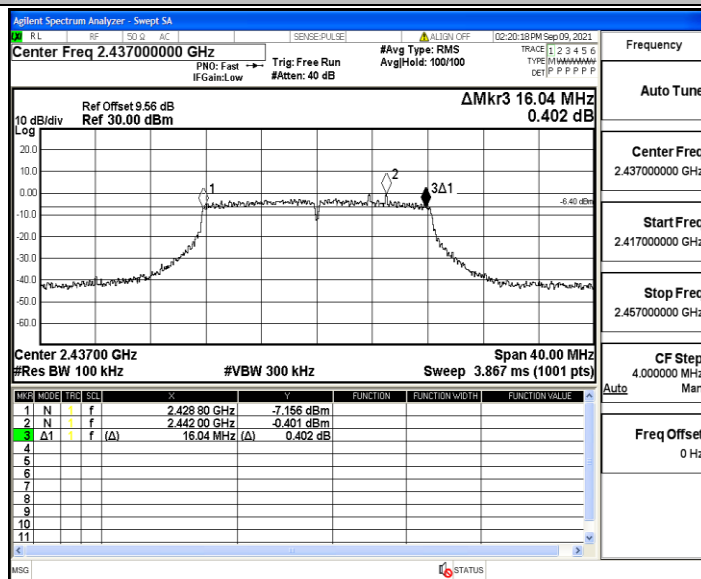
11G\_Ant1\_2412



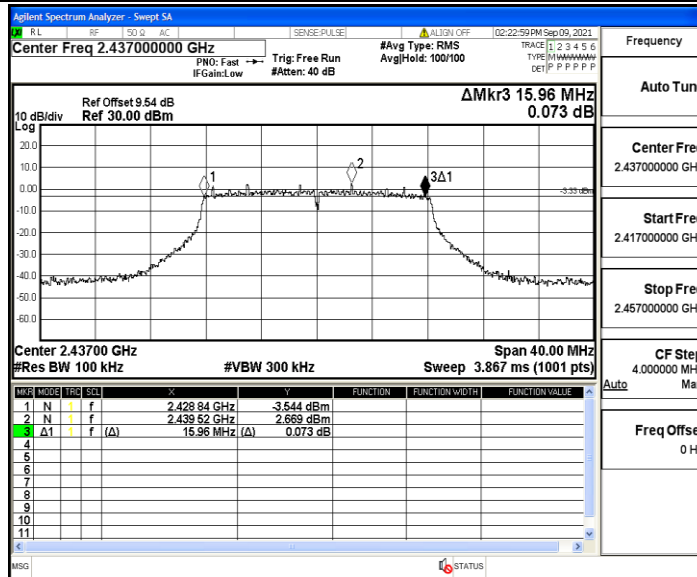
11G\_Ant2\_2412



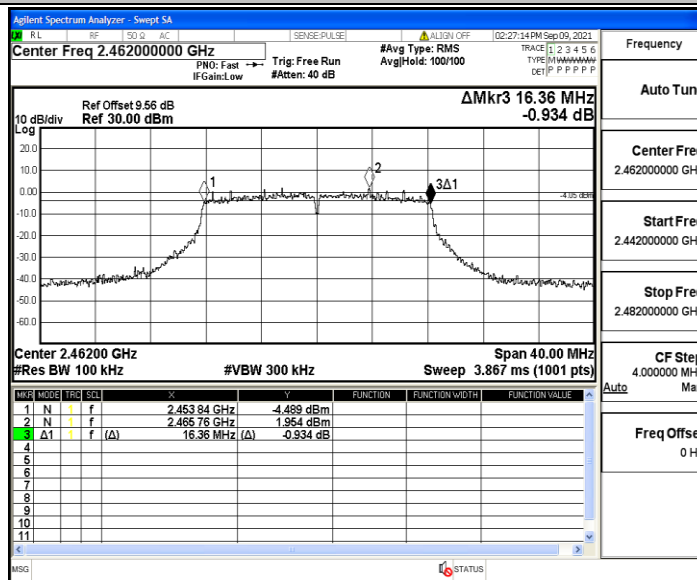
11G\_Ant1\_2437



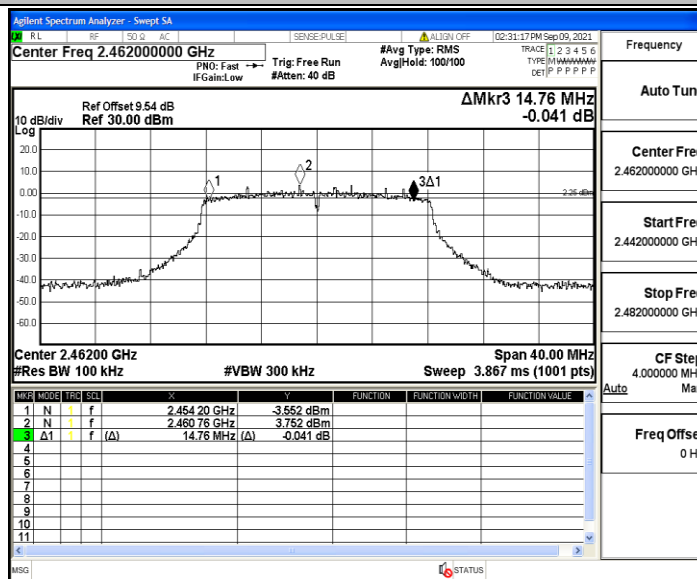
11G\_Ant2\_2437



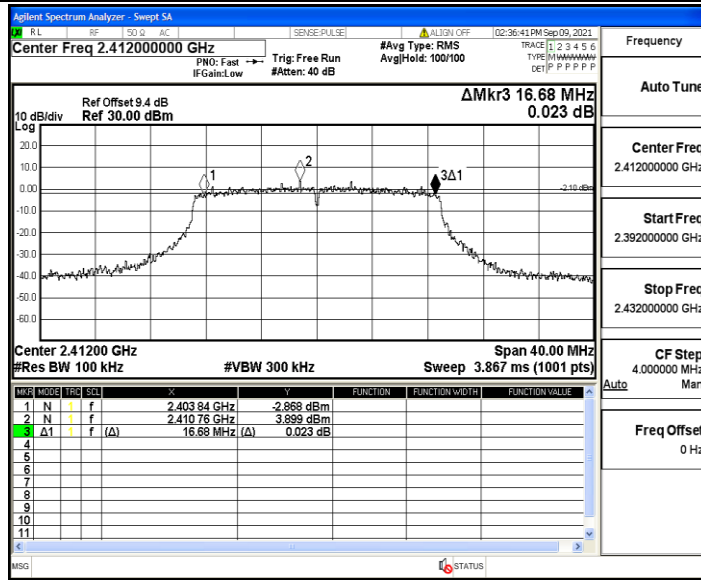
11G\_Ant1\_2462



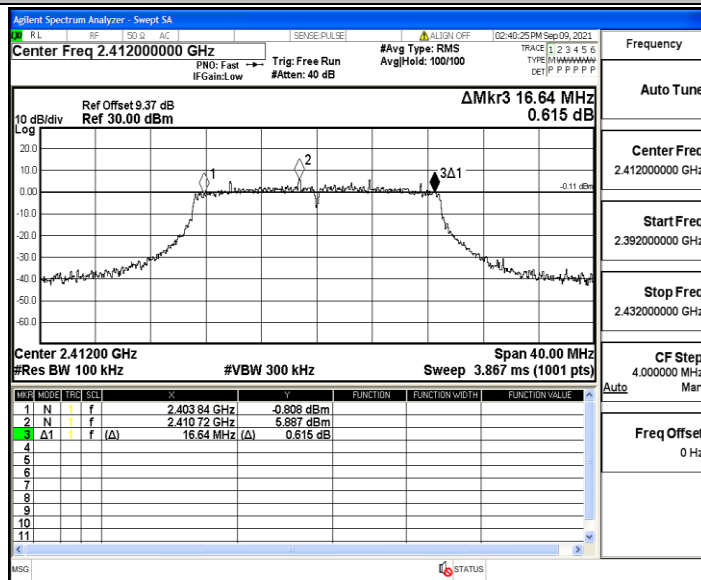
11G\_Ant2\_2462



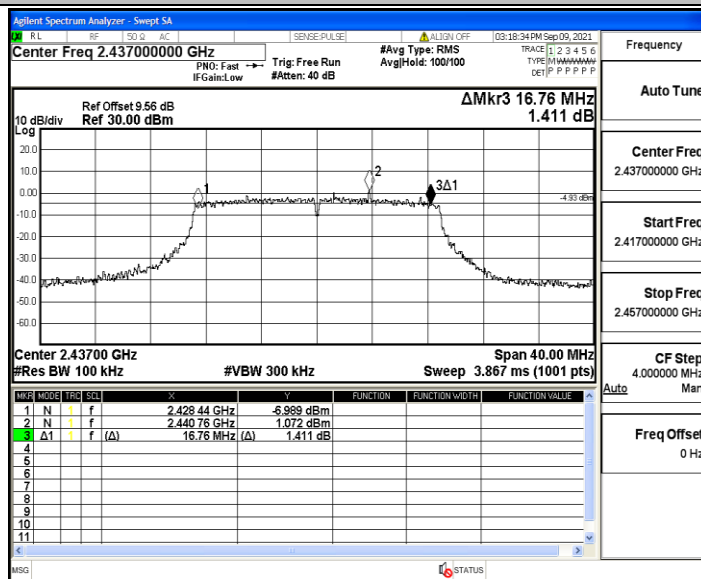
11N20MIMO\_Ant1\_2412



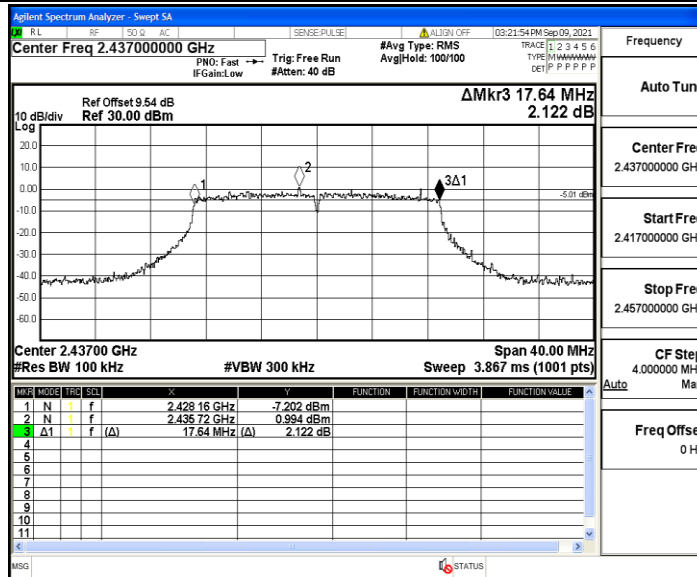
11N20MIMO\_Ant2\_2412



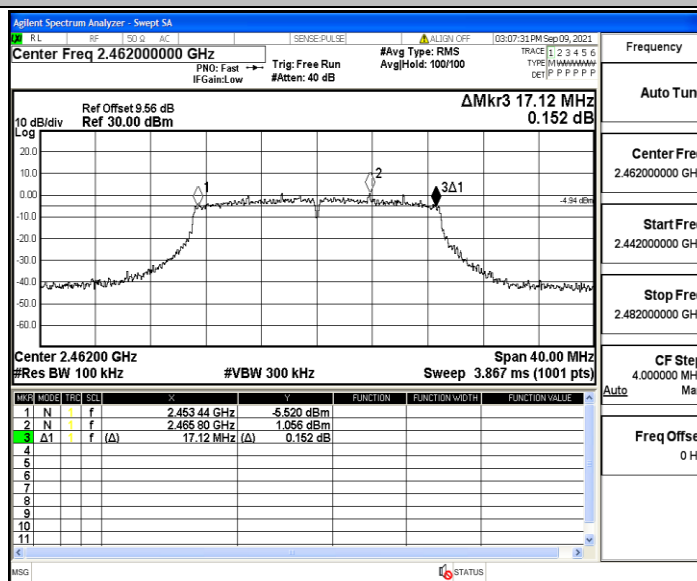
11N20MIMO\_Ant1\_2437



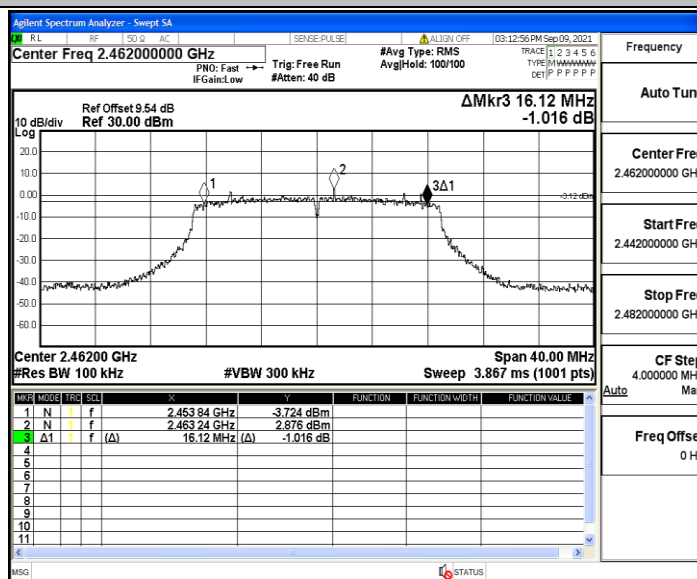
11N20MIMO\_Ant2\_2437



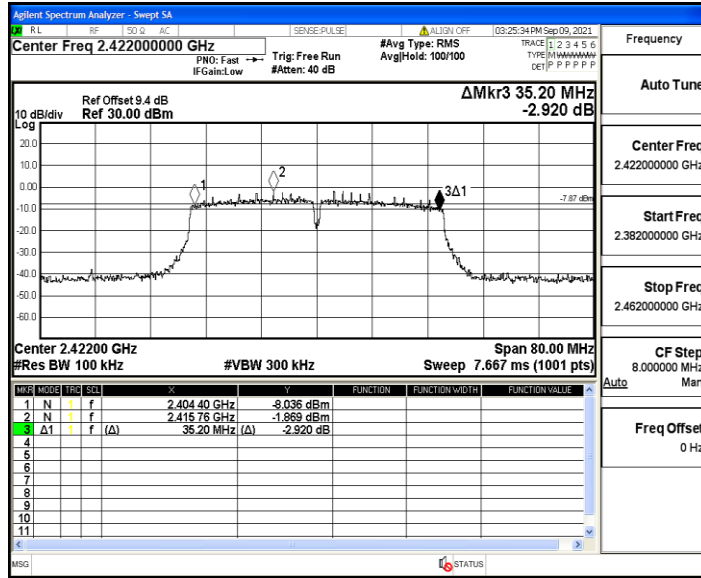
11N20MIMO\_Ant1\_2462



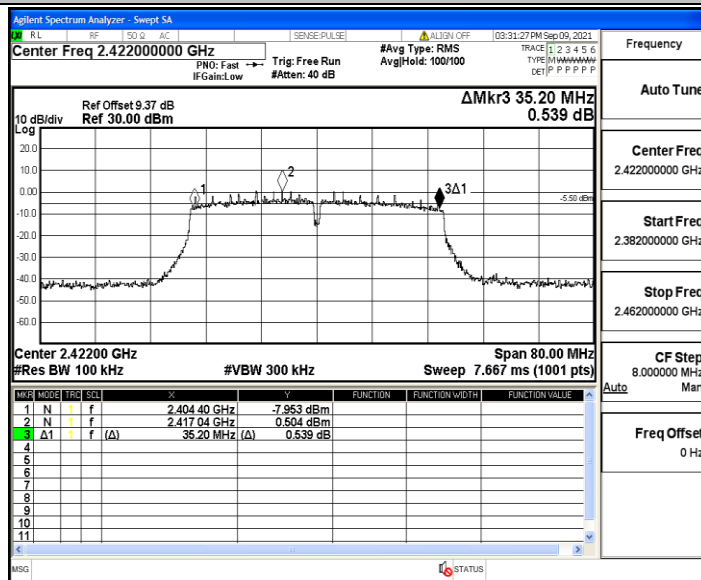
11N20MIMO\_Ant2\_2462



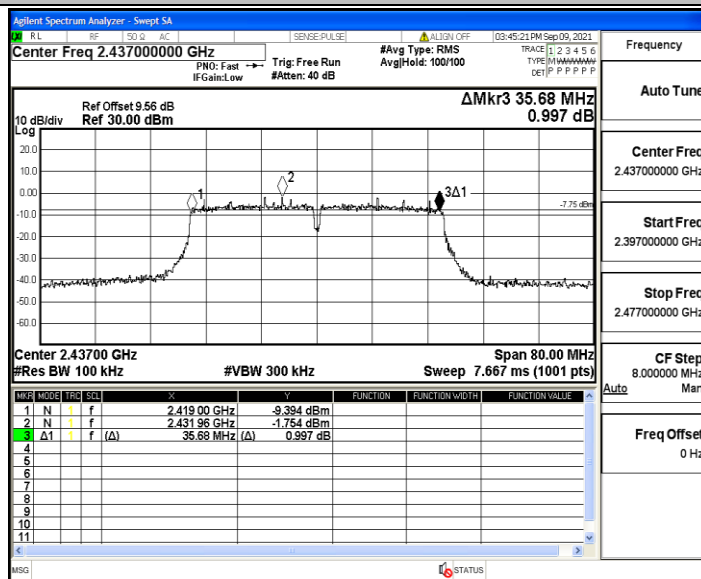
11N40MIMO\_Ant1\_2422



11N40MIMO\_Ant2\_2422

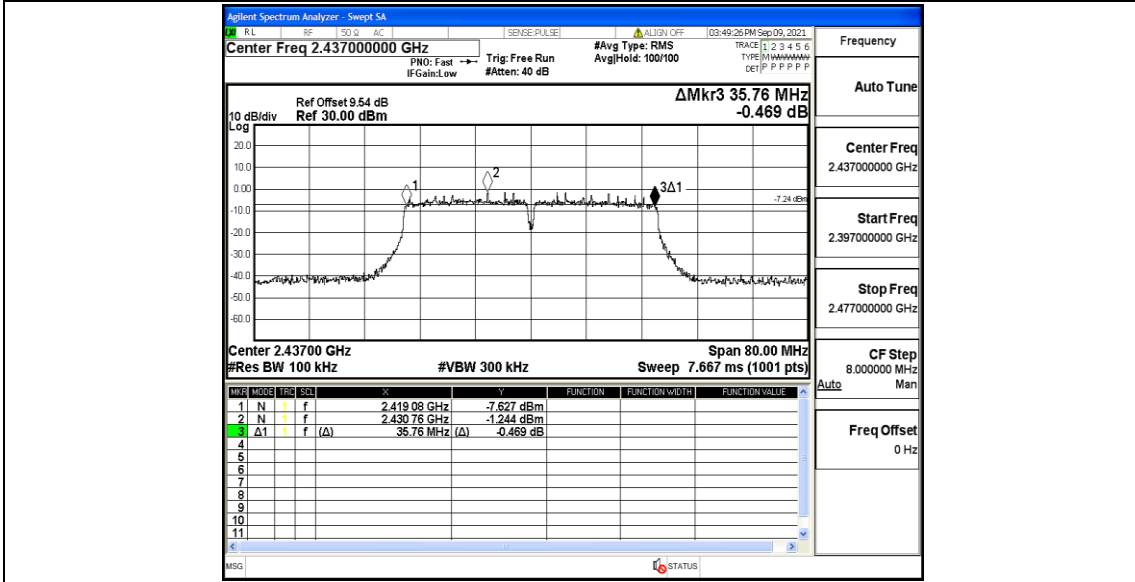


11N40MIMO\_Ant1\_2437

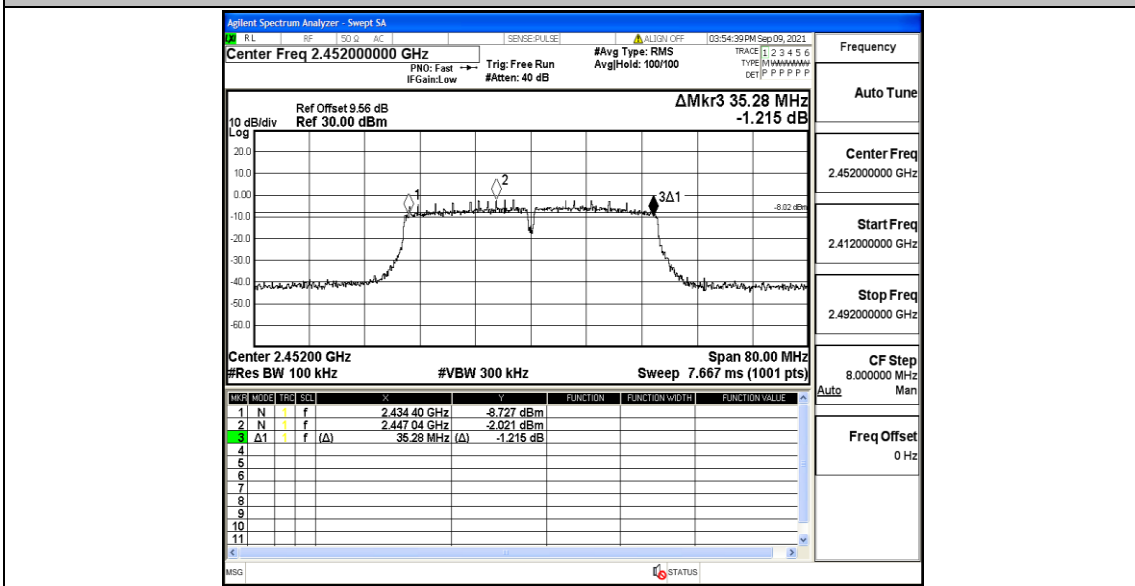


11N40MIMO\_Ant2\_2437

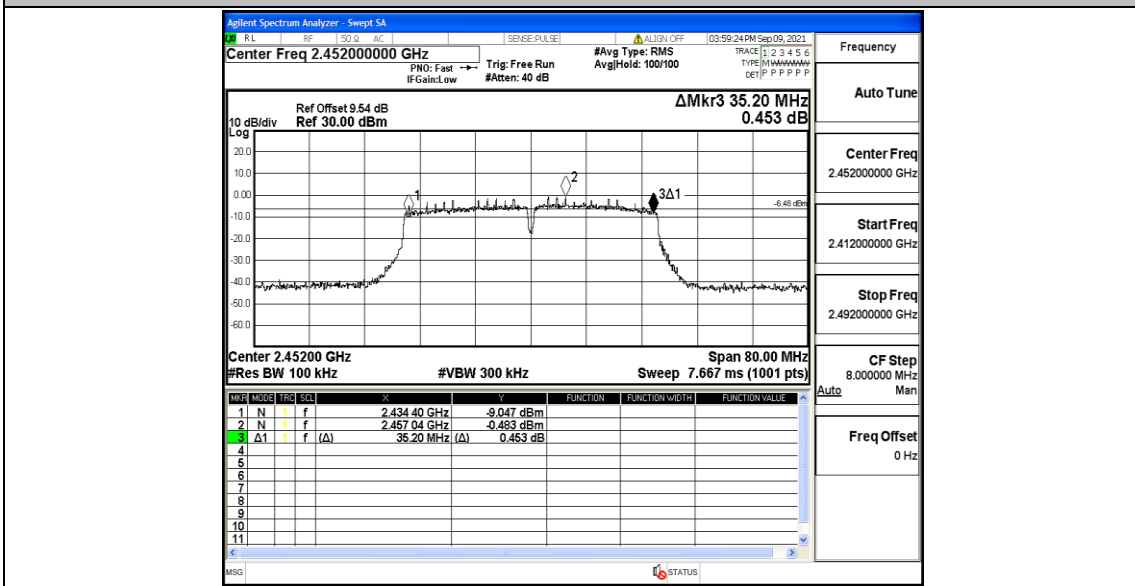




11N40MIMO\_Ant1\_2452



11N40MIMO\_Ant2\_2452

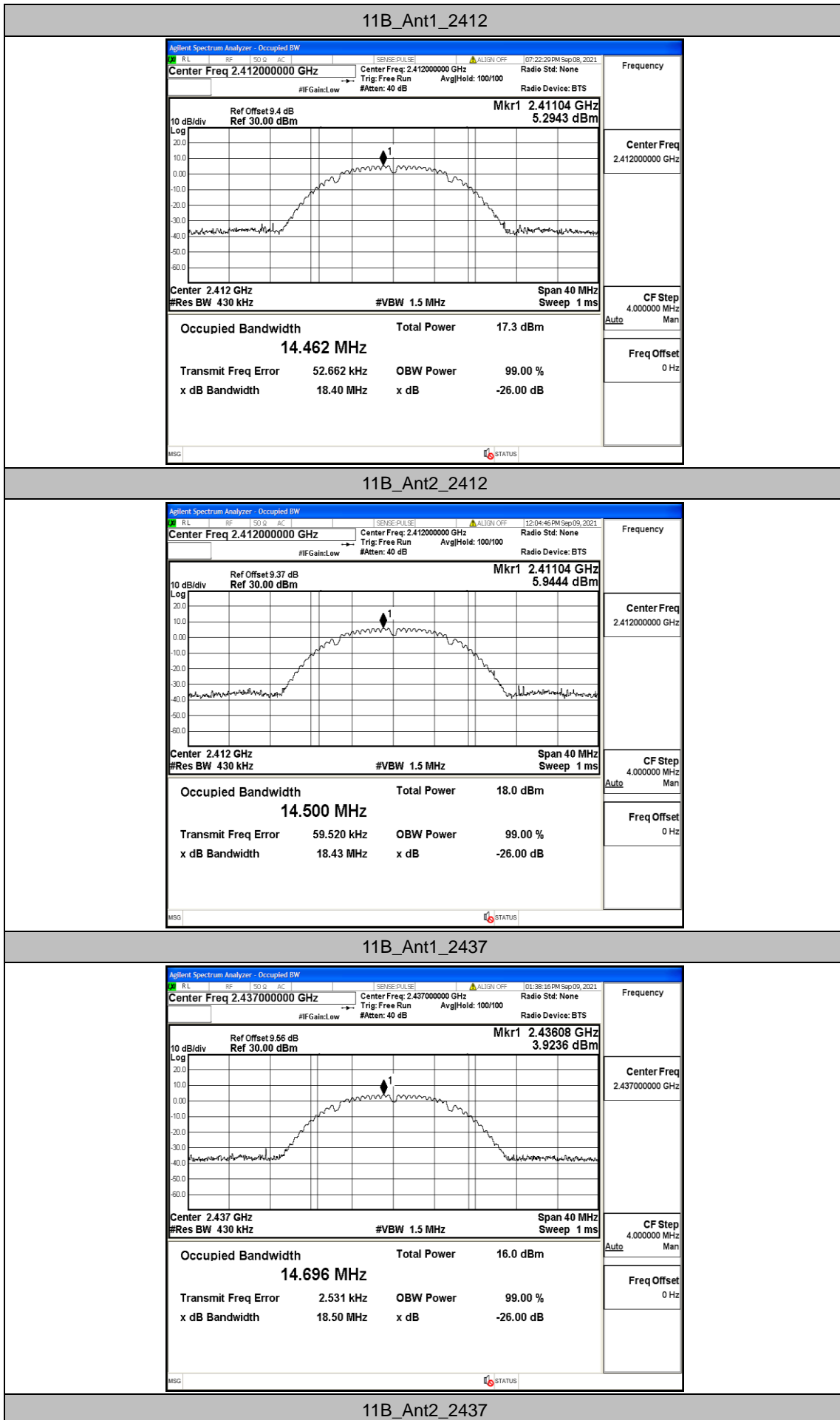


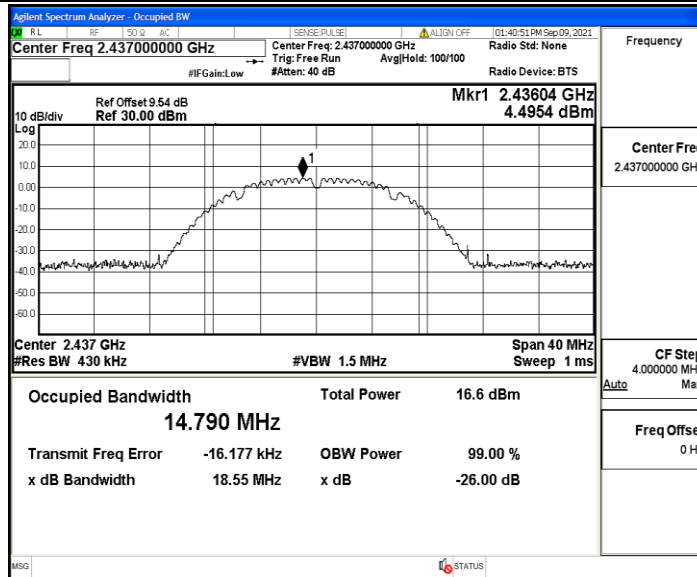
## Appendix B: Occupied Channel Bandwidth

### Test Result

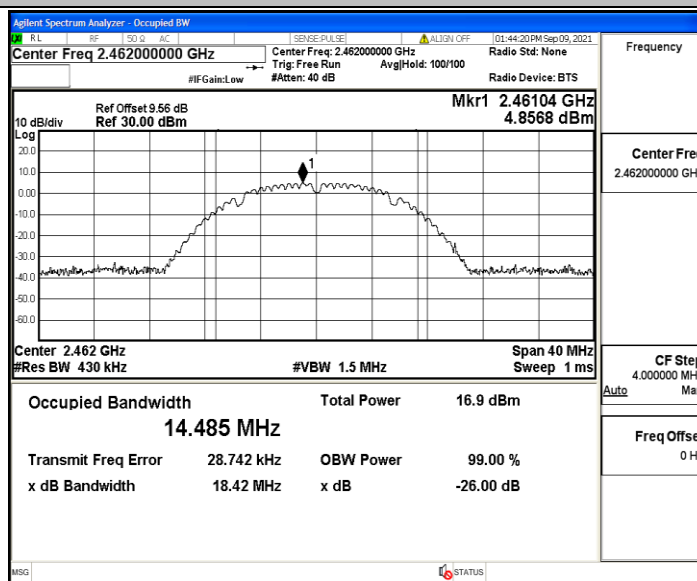
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.462	2404.822	2419.284	---	PASS
	Ant2	2412	14.500	2404.810	2419.310	---	PASS
	Ant1	2437	14.696	2429.655	2444.351	---	PASS
	Ant2	2437	14.790	2429.589	2444.379	---	PASS
	Ant1	2462	14.485	2454.786	2469.271	---	PASS
	Ant2	2462	14.535	2454.734	2469.269	---	PASS
11G	Ant1	2412	16.608	2403.719	2420.327	---	PASS
	Ant2	2412	16.706	2403.721	2420.427	---	PASS
	Ant1	2437	16.645	2428.698	2445.343	---	PASS
	Ant2	2437	16.771	2428.663	2445.434	---	PASS
	Ant1	2462	16.552	2453.733	2470.285	---	PASS
	Ant2	2462	16.687	2453.705	2470.392	---	PASS
11N20MIMO	Ant1	2412	17.817	2403.156	2420.973	---	PASS
	Ant2	2412	17.824	2403.133	2420.957	---	PASS
	Ant1	2437	17.867	2428.083	2445.950	---	PASS
	Ant2	2437	17.917	2428.055	2445.972	---	PASS
	Ant1	2462	17.787	2453.145	2470.932	---	PASS
	Ant2	2462	17.758	2453.182	2470.940	---	PASS
11N40MIMO	Ant1	2422	36.133	2403.940	2440.073	---	PASS
	Ant2	2422	36.052	2403.983	2440.035	---	PASS
	Ant1	2437	36.436	2418.825	2455.261	---	PASS
	Ant2	2437	36.333	2418.886	2455.219	---	PASS
	Ant1	2452	36.281	2433.979	2470.260	---	PASS
	Ant2	2452	36.117	2434.051	2470.168	---	PASS

### Test Graphs

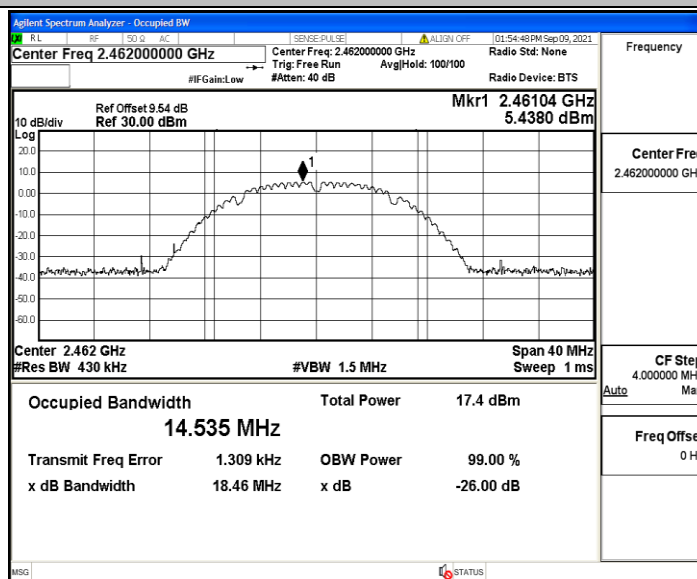




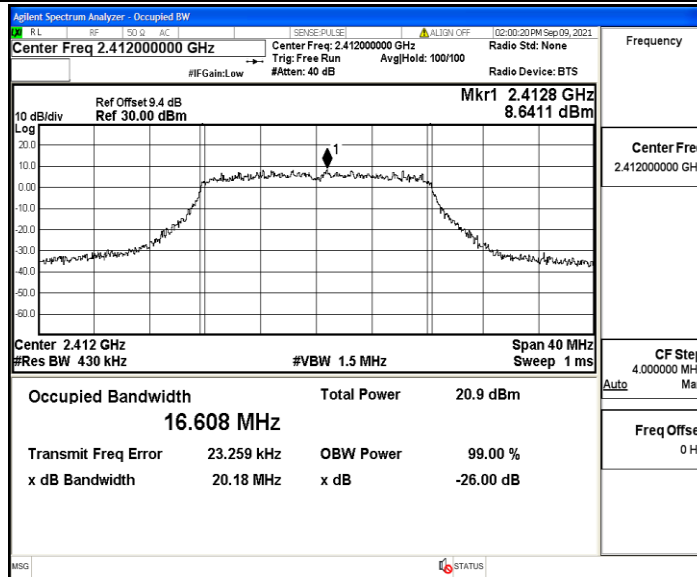
11B\_Ant1\_2462



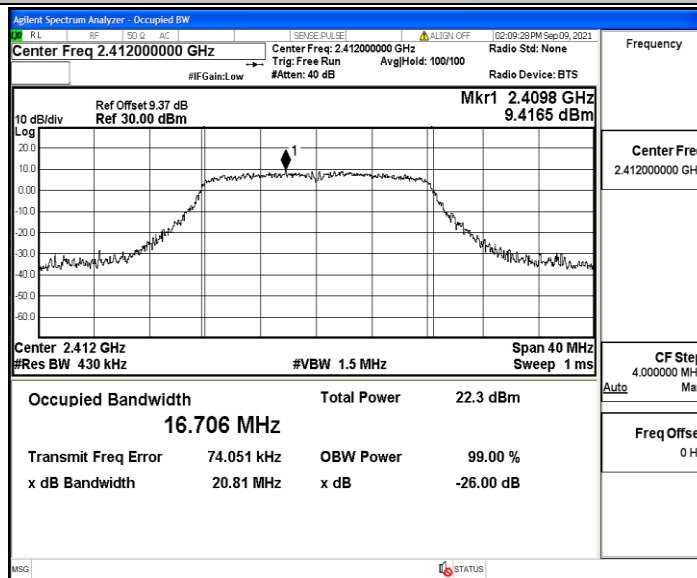
11B\_Ant2\_2462



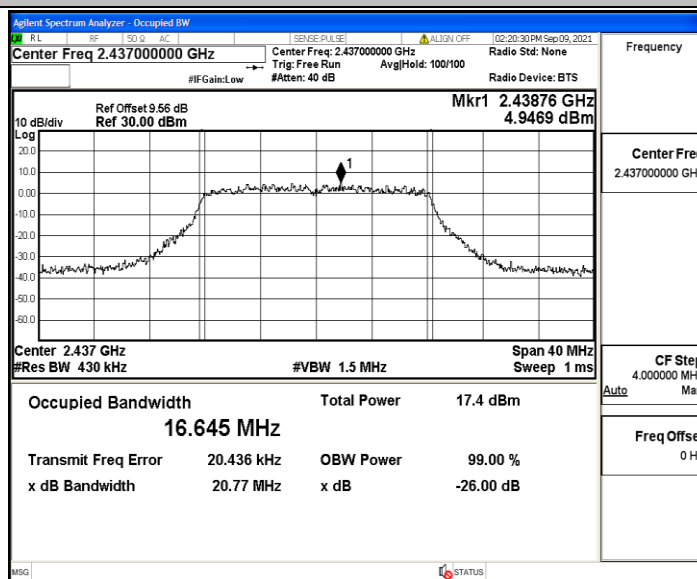
11G\_Ant1\_2412



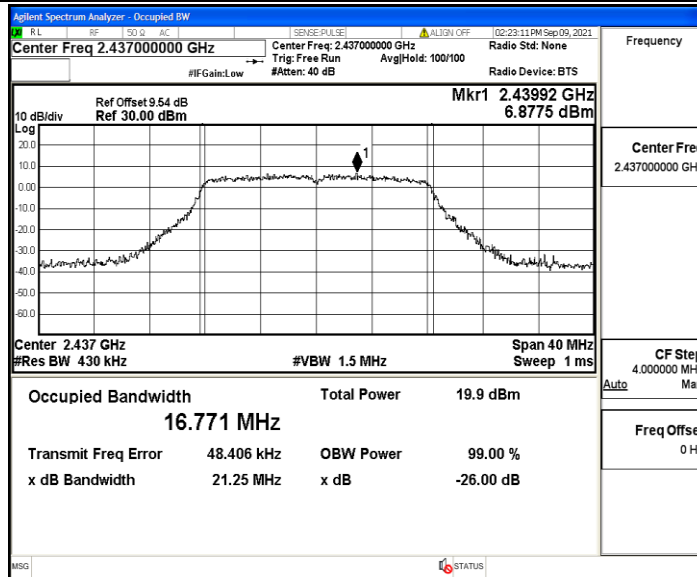
11G\_Ant2\_2412



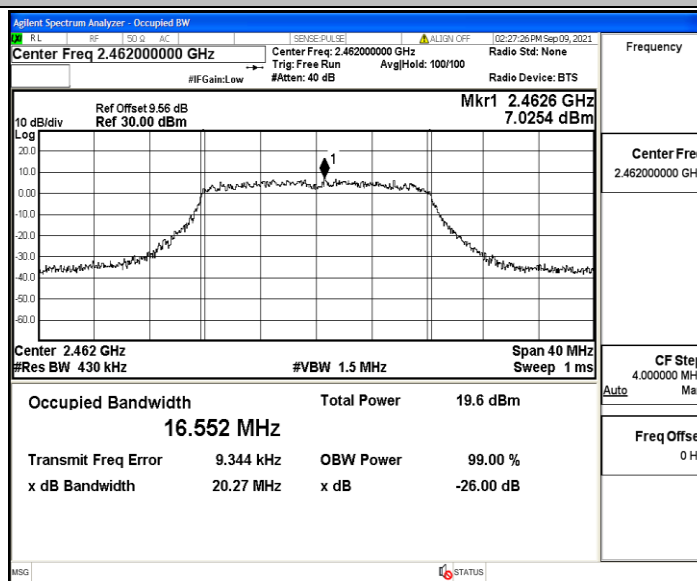
11G\_Ant1\_2437



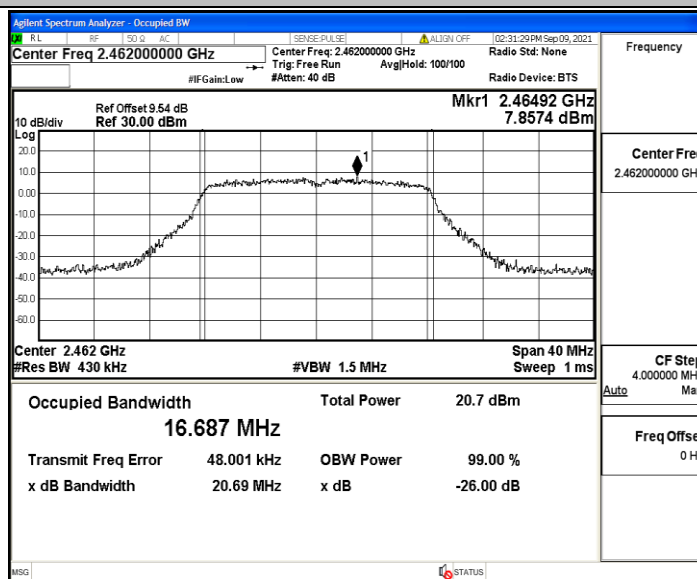
11G\_Ant2\_2437



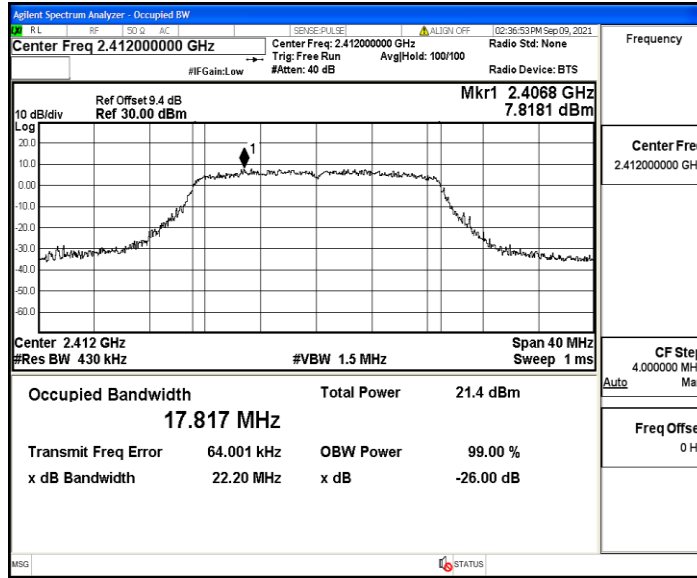
11G\_Ant1\_2462



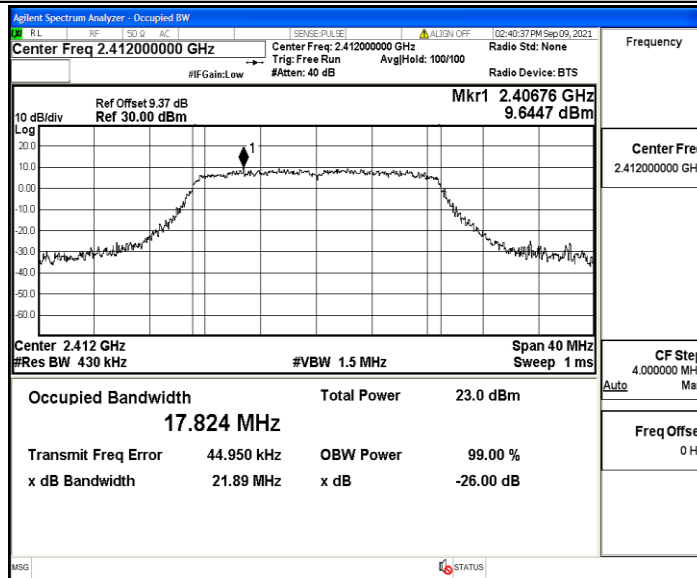
11G\_Ant2\_2462



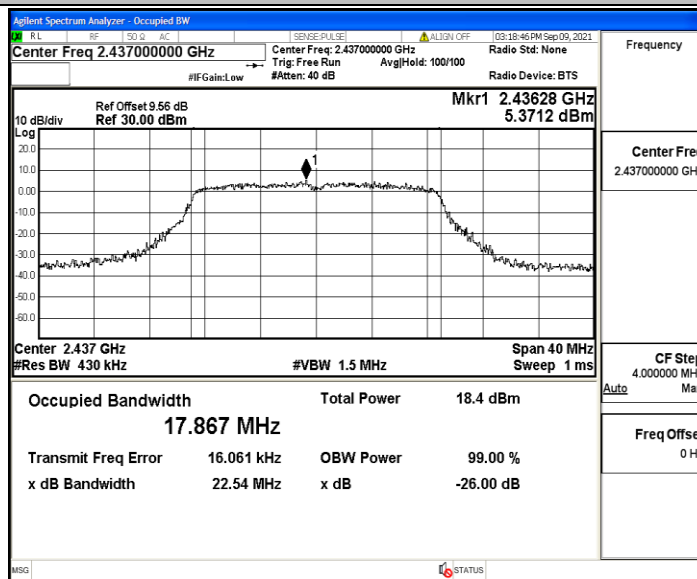
11N20MIMO\_Ant1\_2412



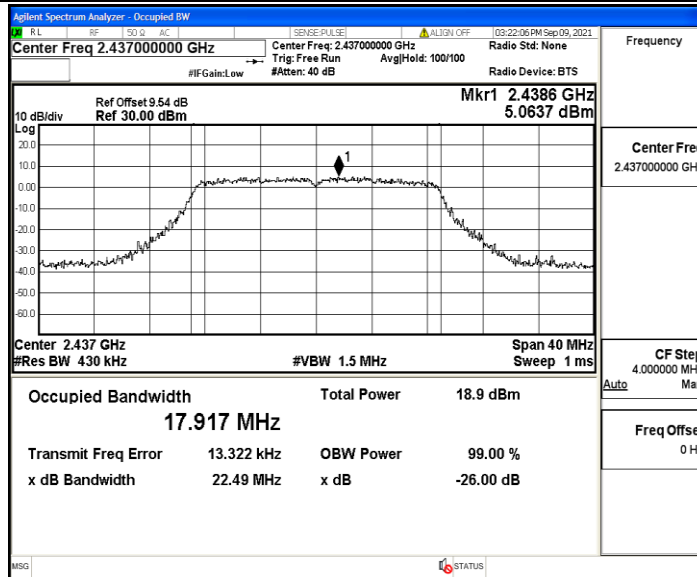
11N20MIMO\_Ant2\_2412



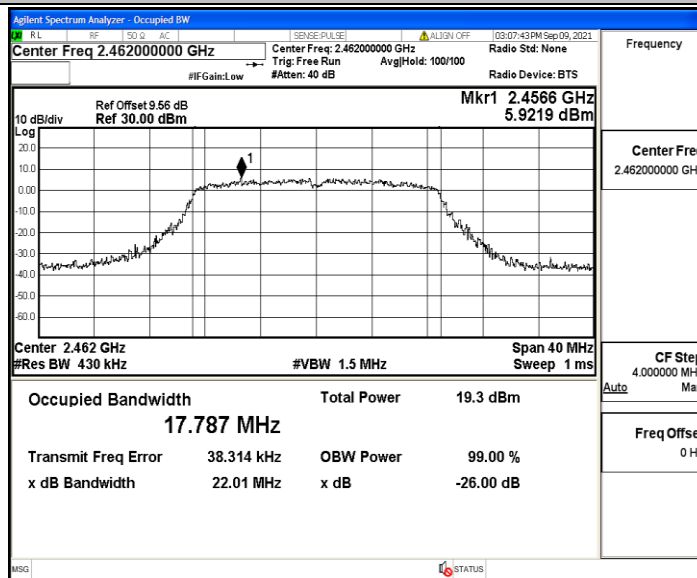
11N20MIMO\_Ant1\_2437



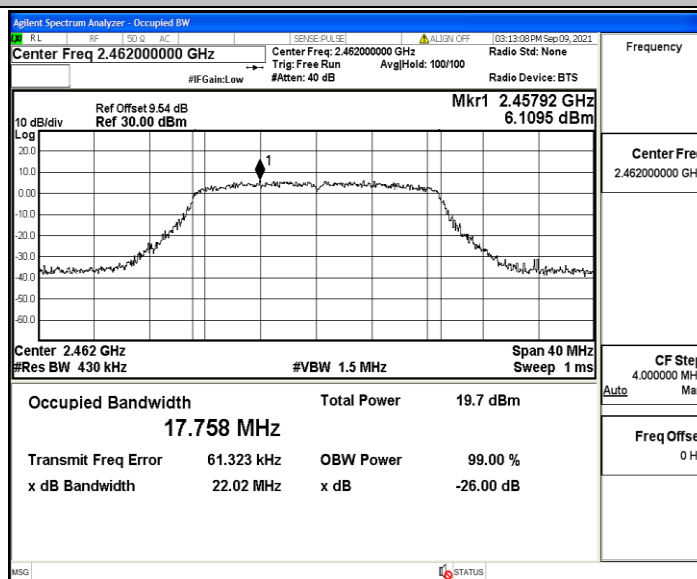
11N20MIMO\_Ant2\_2437



11N20MIMO\_Ant1\_2462

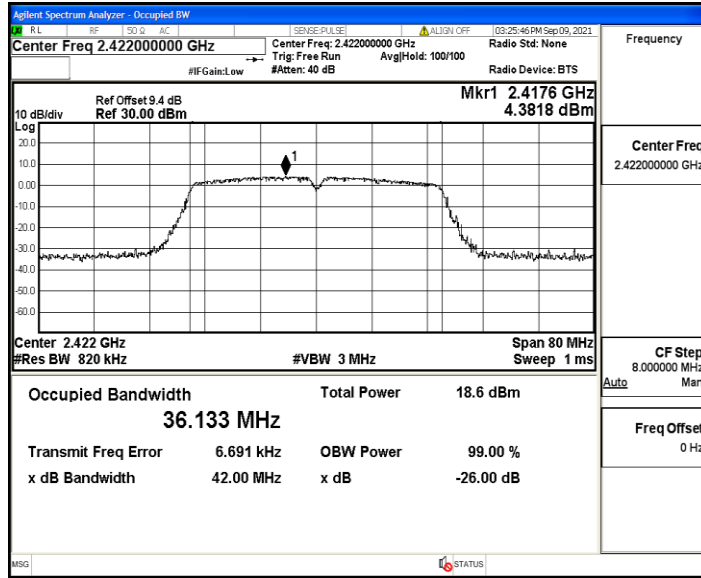


11N20MIMO\_Ant2\_2462

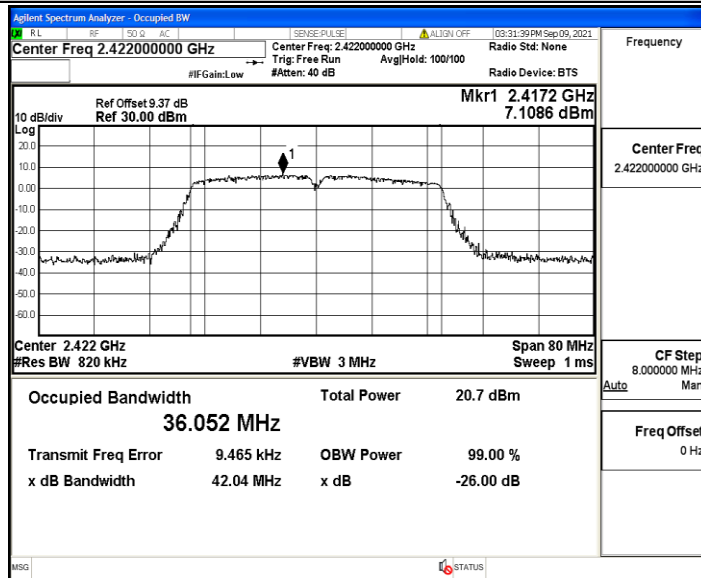


11N40MIMO\_Ant1\_2422

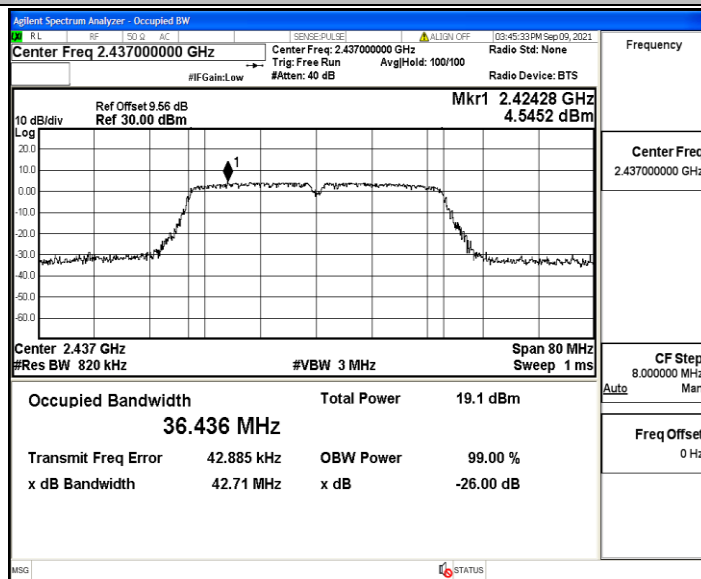




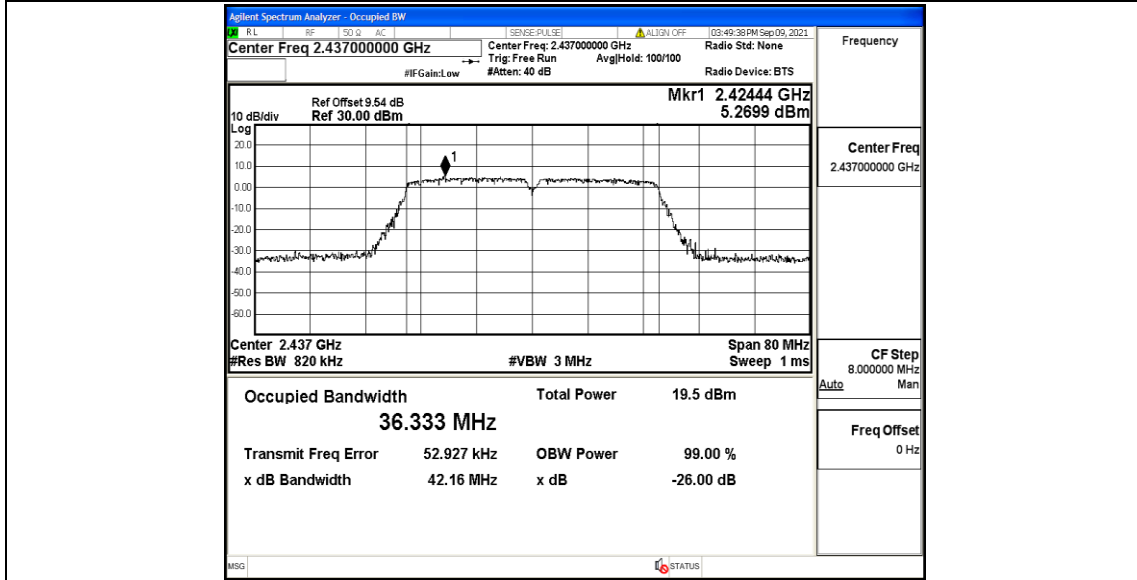
11N40MIMO\_Ant2\_2422



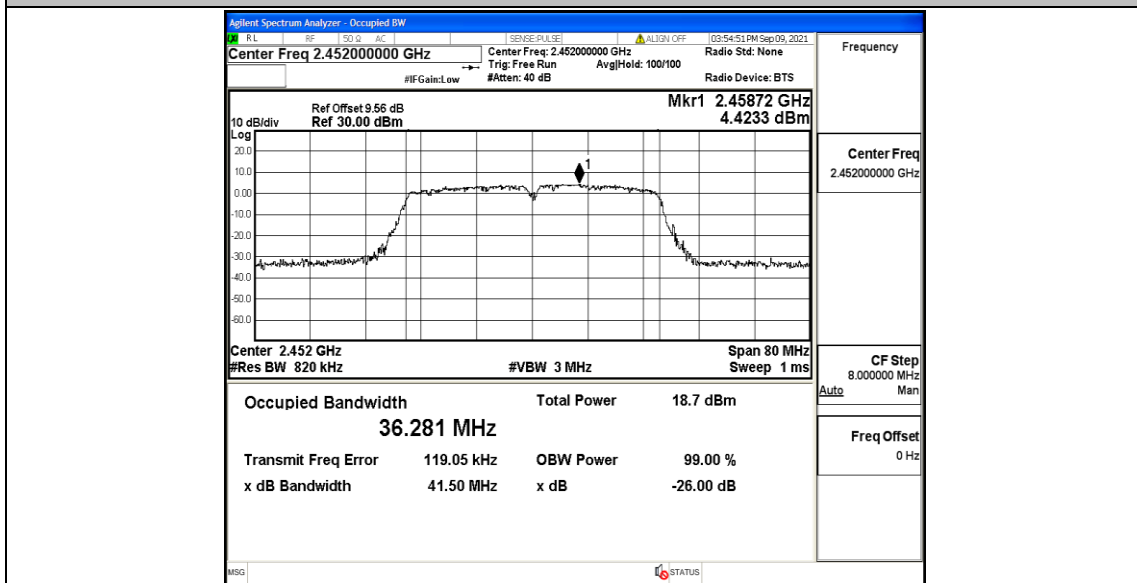
11N40MIMO\_Ant1\_2437



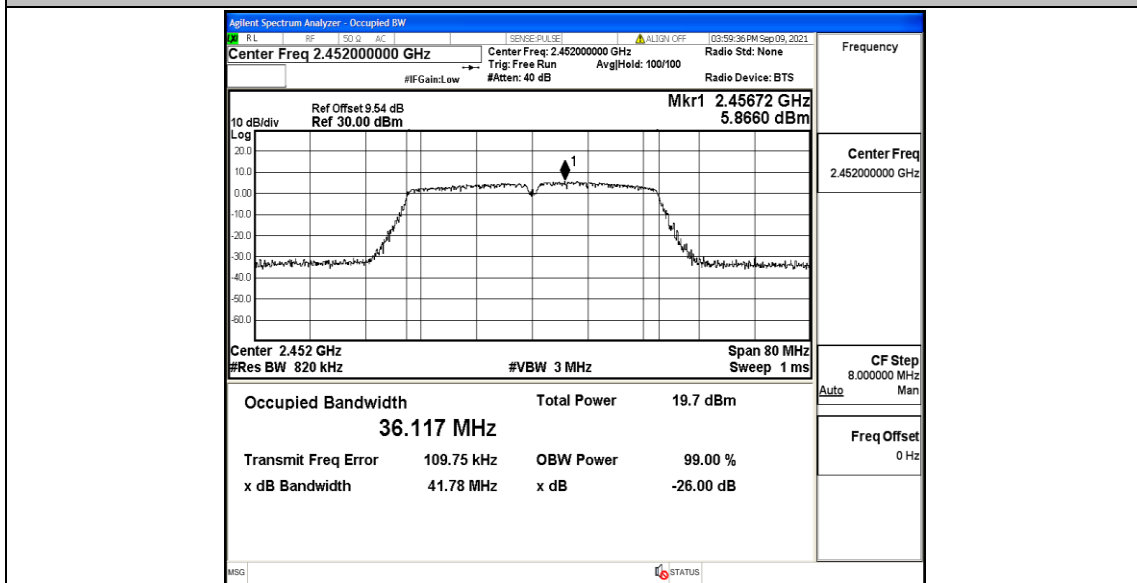
11N40MIMO\_Ant2\_2437



11N40MIMO\_Ant1\_2452



11N40MIMO\_Ant2\_2452



## Appendix C: Maximum conducted output power

### Test Result

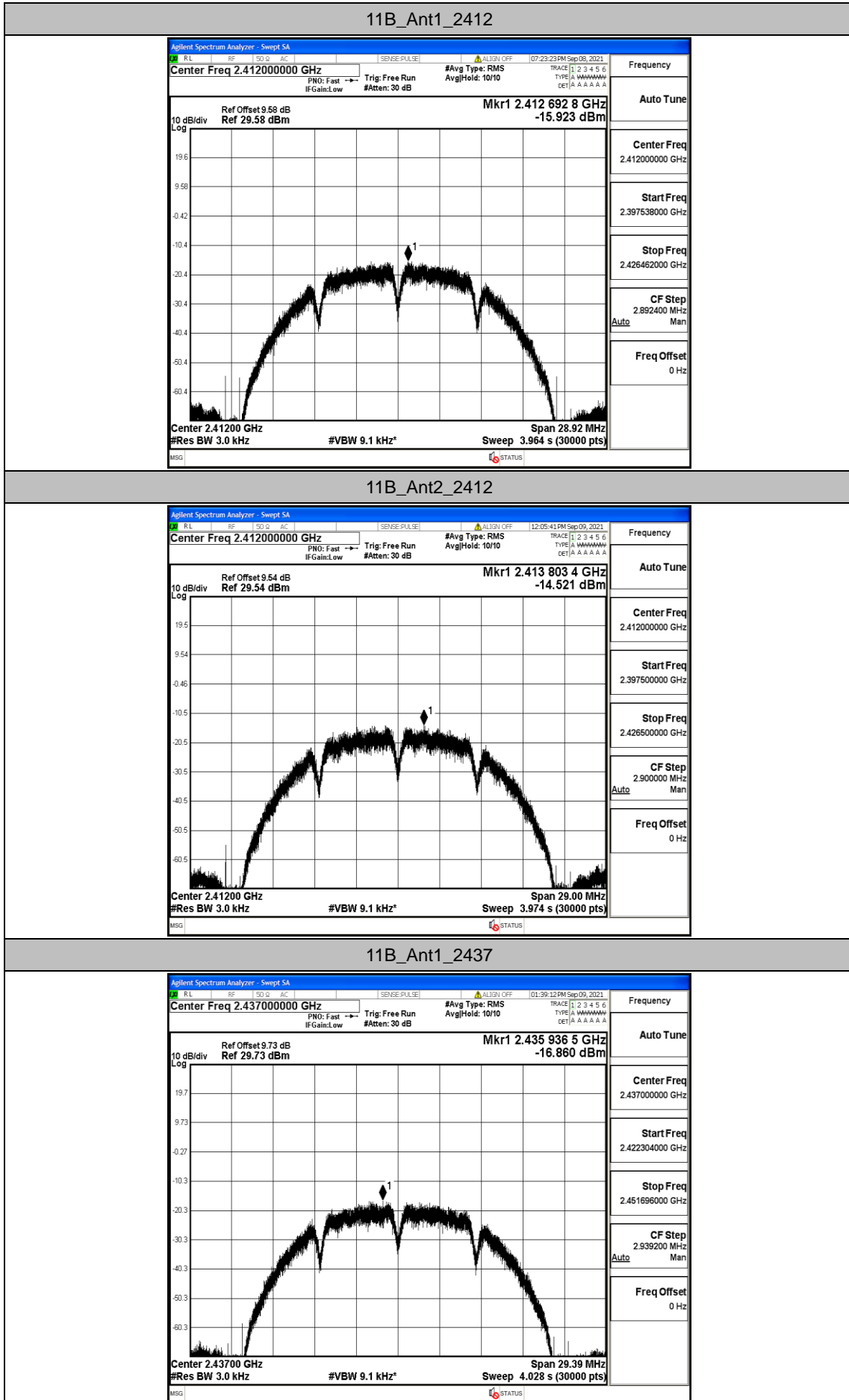
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	14.17	≤30	PASS
	Ant2	2412	15.11	≤30	PASS
	Ant1	2437	12.95	≤30	PASS
	Ant2	2437	13.53	≤30	PASS
	Ant1	2462	13.82	≤30	PASS
	Ant2	2462	14.53	≤30	PASS
11G	Ant1	2412	13.60	≤30	PASS
	Ant2	2412	14.84	≤30	PASS
	Ant1	2437	11.01	≤30	PASS
	Ant2	2437	13.96	≤30	PASS
	Ant1	2462	13.39	≤30	PASS
	Ant2	2462	14.70	≤30	PASS
11N20MIMO	Ant1	2412	13.56	≤30	PASS
	Ant2	2412	14.50	≤30	PASS
	total	2412	17.1	≤30	PASS
	Ant1	2437	12.53	≤30	PASS
	Ant2	2437	13.13	≤30	PASS
	total	2437	15.9	≤30	PASS
	Ant1	2462	13.31	≤30	PASS
	Ant2	2462	13.58	≤30	PASS
	total	2462	16.5	≤30	PASS
11N40MIMO	Ant1	2422	11.43	≤30	PASS
	Ant2	2422	13.61	≤30	PASS
	total	2422	15.7	≤30	PASS
	Ant1	2437	12.29	≤30	PASS
	Ant2	2437	12.84	≤30	PASS
	total	2437	15.6	≤30	PASS
	Ant1	2452	11.93	≤30	PASS
	Ant2	2452	13.10	≤30	PASS
	total	2452	15.6	≤30	PASS

## Appendix D: Maximum power spectral density

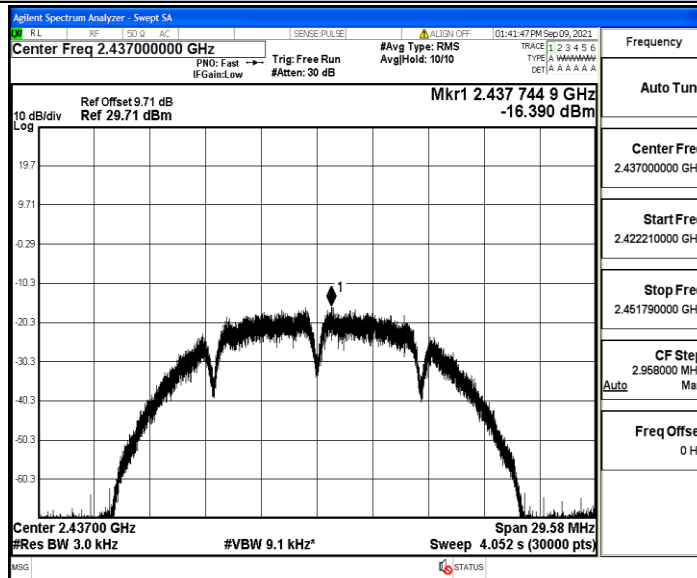
### Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.92	≤8	PASS
	Ant2	2412	-14.52	≤8	PASS
	Ant1	2437	-16.86	≤8	PASS
	Ant2	2437	-16.39	≤8	PASS
	Ant1	2462	-15.31	≤8	PASS
	Ant2	2462	-15.82	≤8	PASS
11G	Ant1	2412	-15.94	≤8	PASS
	Ant2	2412	-13.5	≤8	PASS
	Ant1	2437	-19.22	≤8	PASS
	Ant2	2437	-16.31	≤8	PASS
	Ant1	2462	-16.99	≤8	PASS
	Ant2	2462	-15.39	≤8	PASS
11N20MIMO	Ant1	2412	-16.26	≤8	PASS
	Ant2	2412	-15.74	≤8	PASS
	total	2412	-12.98	≤8	PASS
	Ant1	2437	-17.88	≤8	PASS
	Ant2	2437	-17.76	≤8	PASS
	total	2437	-14.81	≤8	PASS
	Ant1	2462	-16.83	≤8	PASS
	Ant2	2462	-16.02	≤8	PASS
	total	2462	-13.40	≤8	PASS
11N40MIMO	Ant1	2422	-20.4	≤8	PASS
	Ant2	2422	-18.78	≤8	PASS
	total	2422	-16.50	≤8	PASS
	Ant1	2437	-18.57	≤8	PASS
	Ant2	2437	-18.51	≤8	PASS
	total	2437	-15.53	≤8	PASS
	Ant1	2452	-18.65	≤8	PASS
	Ant2	2452	-20.35	≤8	PASS
	total	2452	-16.41	≤8	PASS

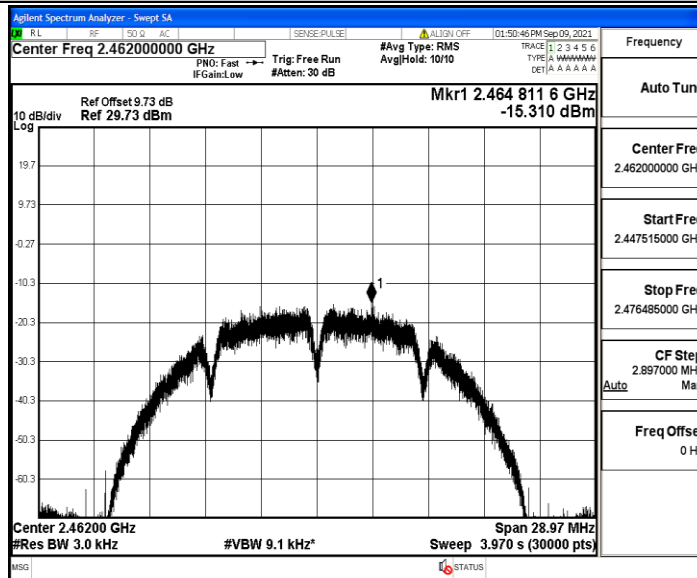
### Test Graphs



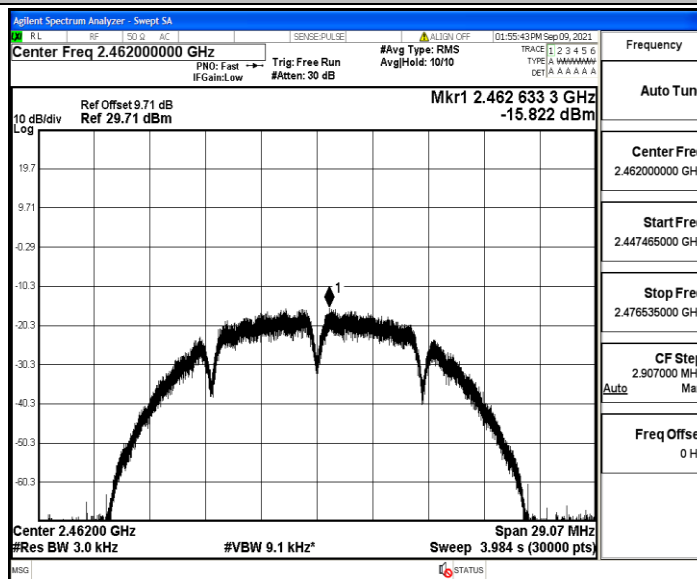
11B\_Ant2\_2437



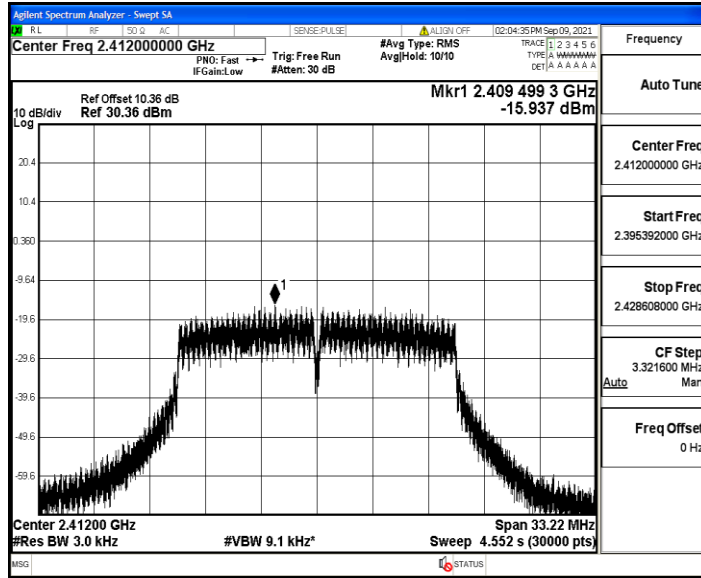
11B\_Ant1\_2462



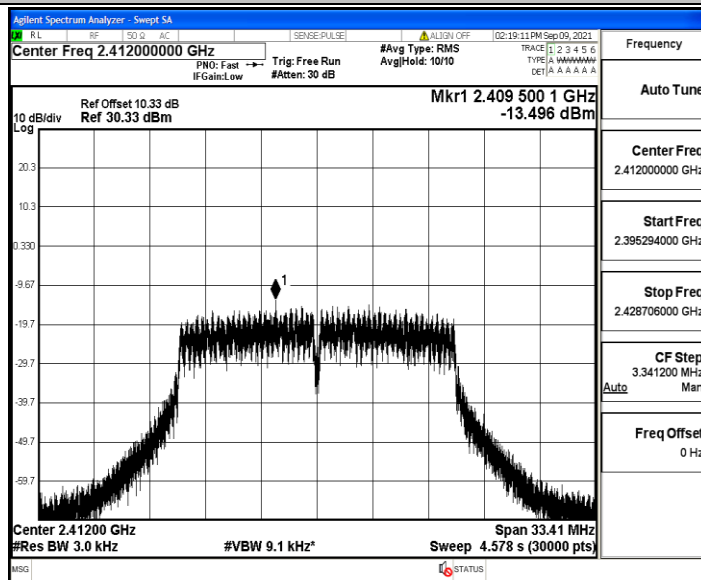
11B\_Ant2\_2462



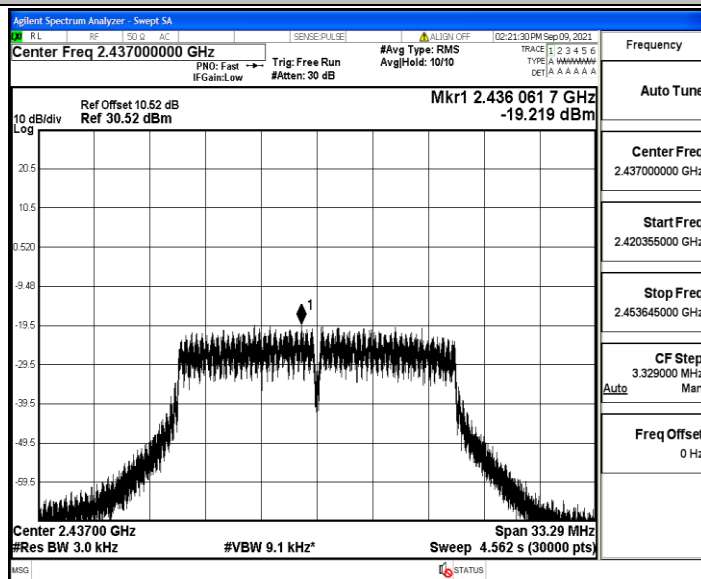
11G\_Ant1\_2412



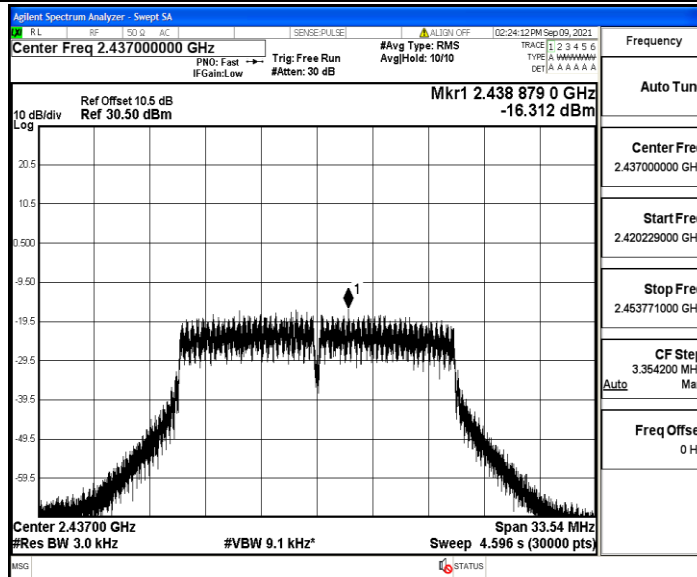
11G\_Ant2\_2412



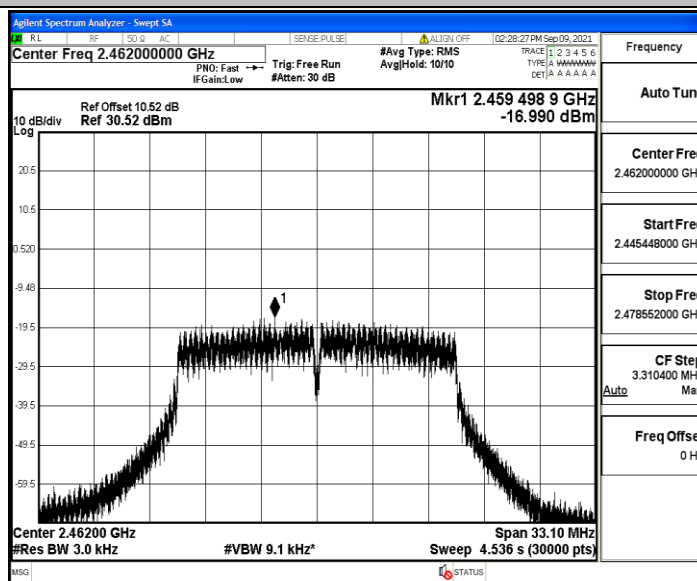
11G\_Ant1\_2437



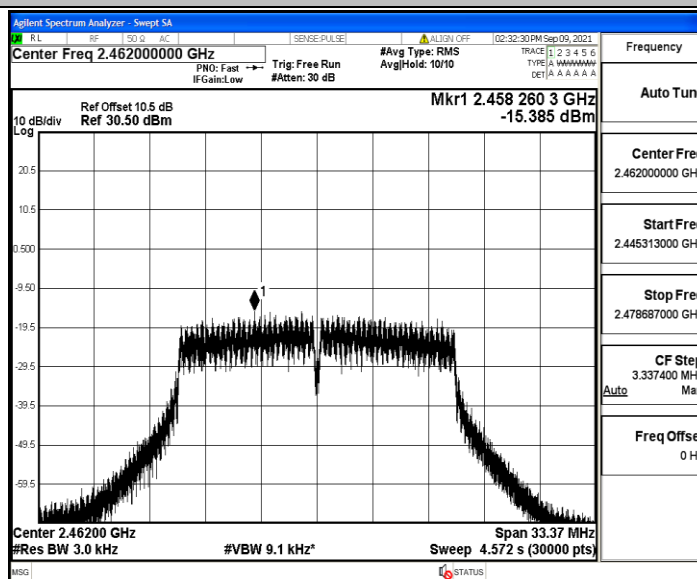
11G\_Ant2\_2437



11G\_Ant1\_2462

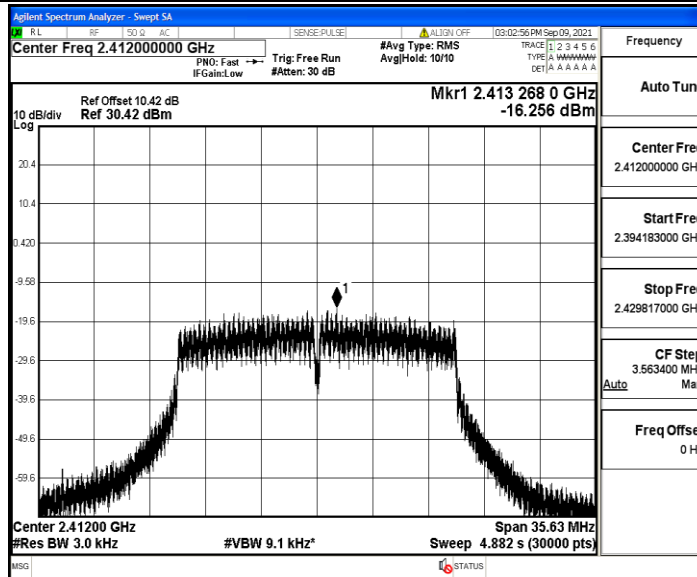


11G\_Ant2\_2462

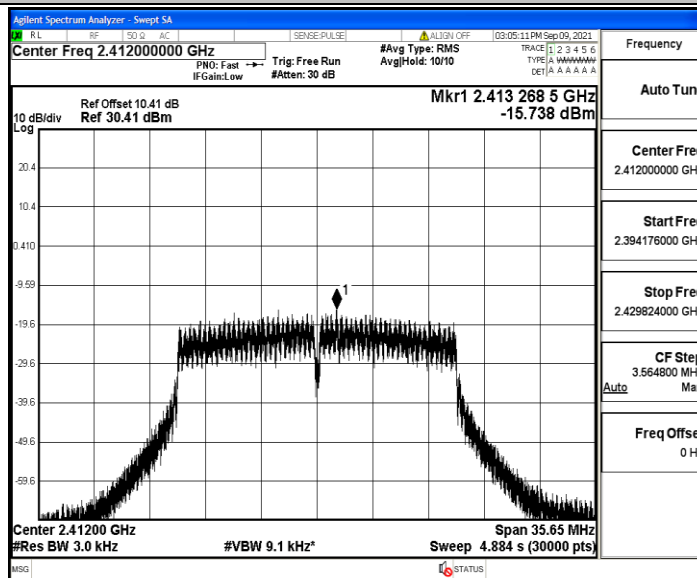


11N20MIMO\_Ant1\_2412

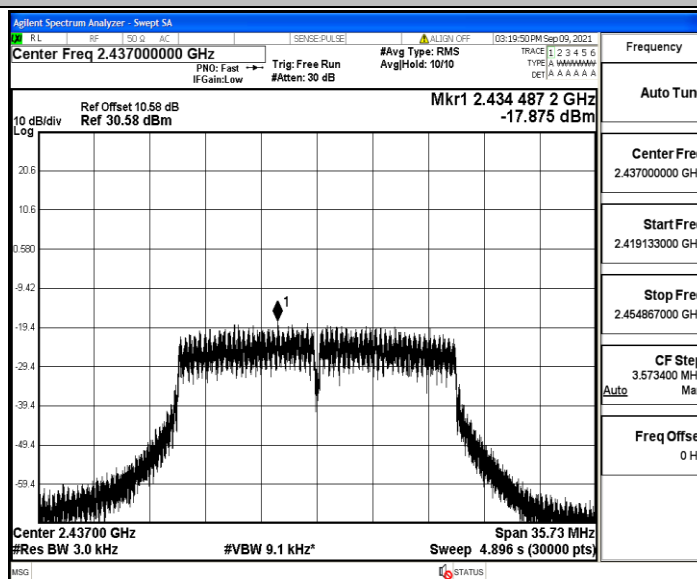




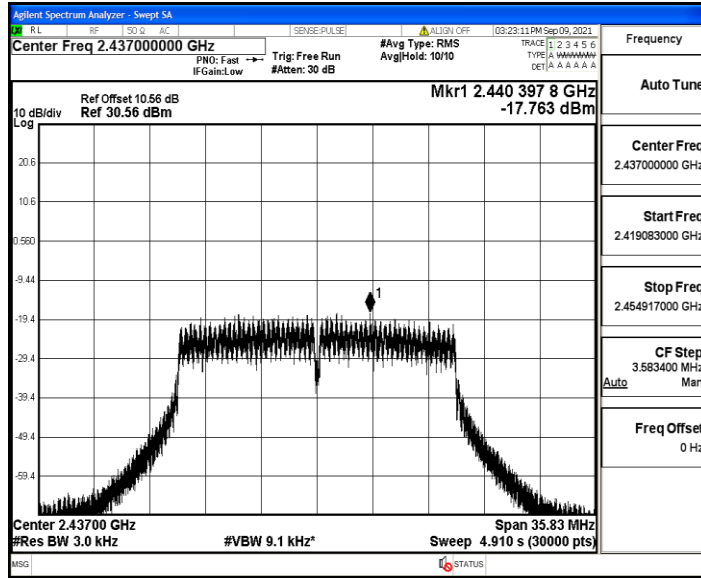
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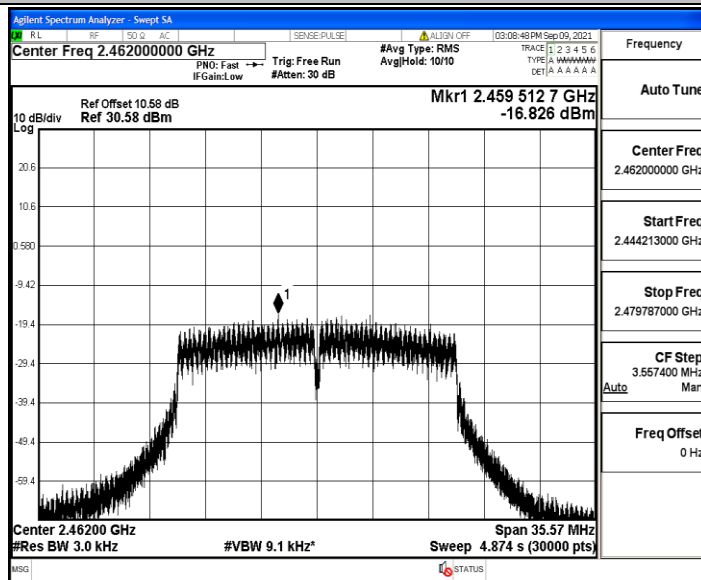
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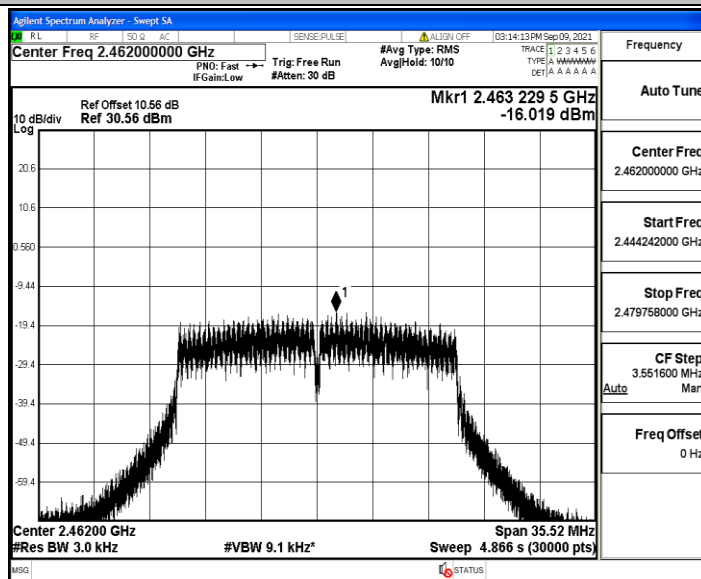
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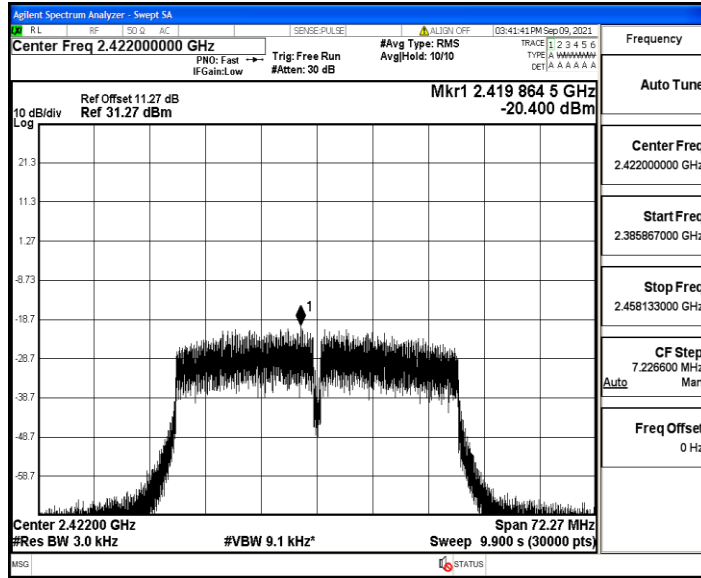
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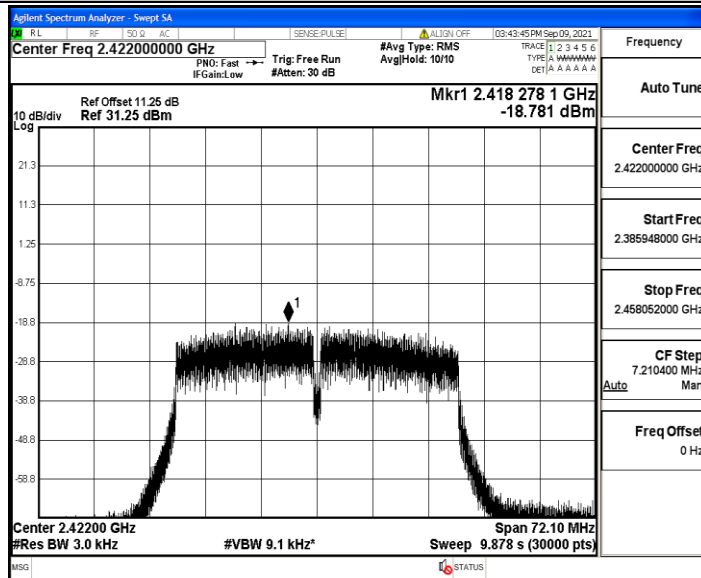
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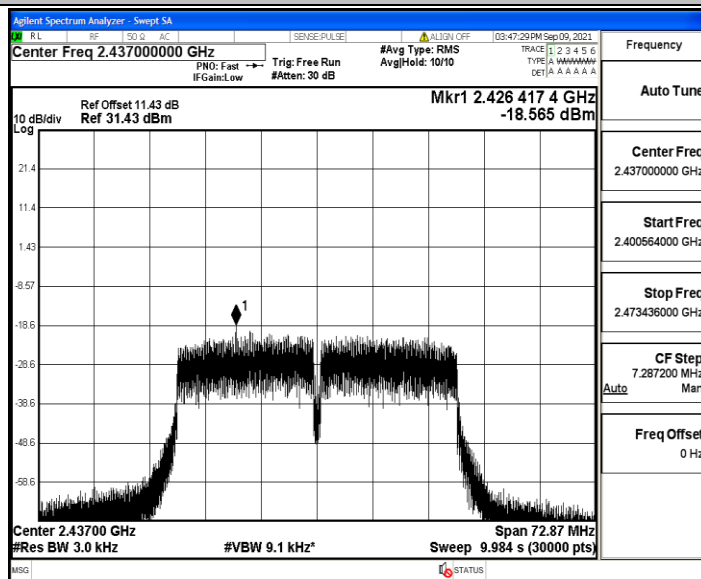
11N40MIMO\_Ant1\_2422



11N40MIMO\_Ant2\_2422



11N40MIMO\_Ant1\_2437



11N40MIMO\_Ant2\_2437