

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

Product Name: 4K HDMI dongle

Trade Mark: Homatics

Test Model: SN8BAGC

FCC ID: 2A0VU-DONGLEQ

### Environmental Conditions

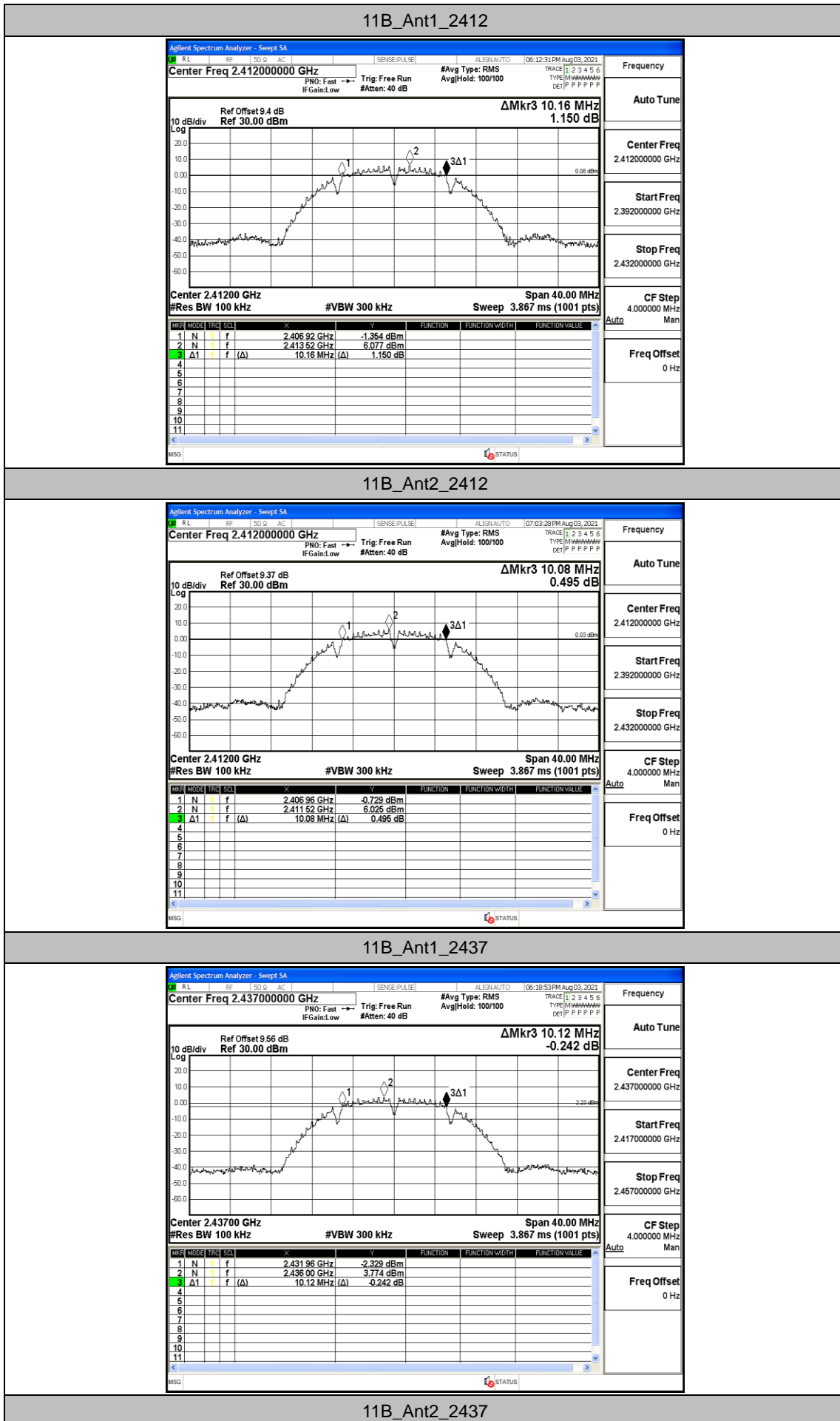
Temperature:	24.3℃
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

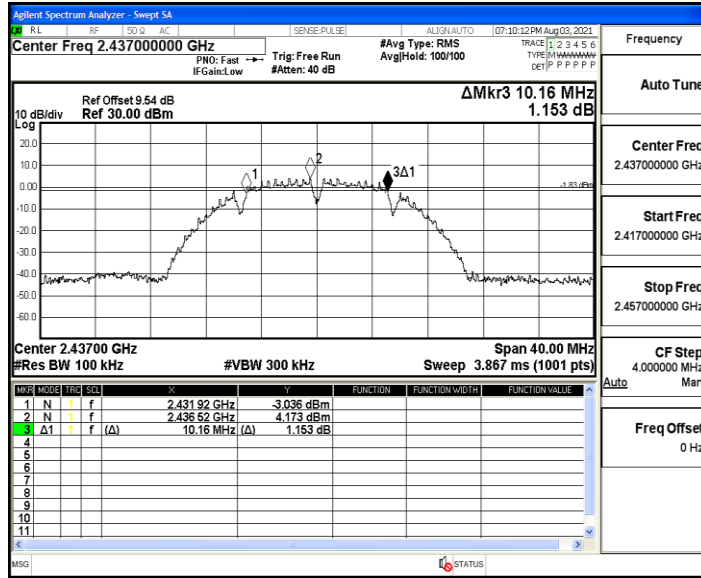
## Appendix A: DTS Bandwidth

### Test Result

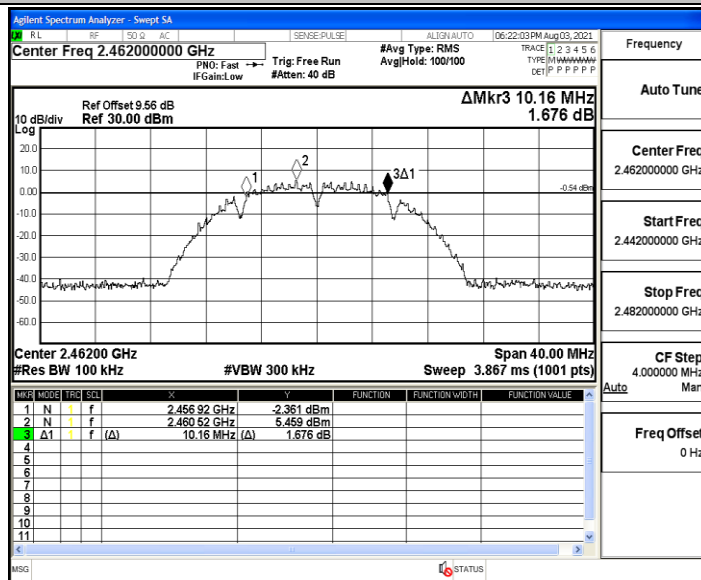
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.160	2406.920	2417.080	0.5	PASS
	Ant2	2412	10.080	2406.960	2417.040	0.5	PASS
	Ant1	2437	10.120	2431.960	2442.080	0.5	PASS
	Ant2	2437	10.160	2431.920	2442.080	0.5	PASS
	Ant1	2462	10.160	2456.920	2467.080	0.5	PASS
	Ant2	2462	10.160	2456.920	2467.080	0.5	PASS
11G	Ant1	2412	16.400	2403.800	2420.200	0.5	PASS
	Ant2	2412	16.440	2403.800	2420.240	0.5	PASS
	Ant1	2437	16.040	2428.800	2444.840	0.5	PASS
	Ant2	2437	16.400	2428.800	2445.200	0.5	PASS
	Ant1	2462	15.800	2453.800	2469.600	0.5	PASS
	Ant2	2462	15.720	2454.080	2469.800	0.5	PASS
11N20MIMO	Ant1	2412	16.600	2403.840	2420.440	0.5	PASS
	Ant2	2412	16.120	2403.480	2419.600	0.5	PASS
	Ant1	2437	17.640	2428.200	2445.840	0.5	PASS
	Ant2	2437	16.960	2428.440	2445.400	0.5	PASS
	Ant1	2462	14.720	2455.080	2469.800	0.5	PASS
	Ant2	2462	14.760	2453.840	2468.600	0.5	PASS
11N40MIMO	Ant1	2422	34.160	2405.440	2439.600	0.5	PASS
	Ant2	2422	31.520	2404.400	2435.920	0.5	PASS
	Ant1	2437	35.680	2419.080	2454.760	0.5	PASS
	Ant2	2437	35.280	2419.320	2454.600	0.5	PASS
	Ant1	2452	35.120	2434.480	2469.600	0.5	PASS
	Ant2	2452	35.200	2434.400	2469.600	0.5	PASS

### Test Graphs

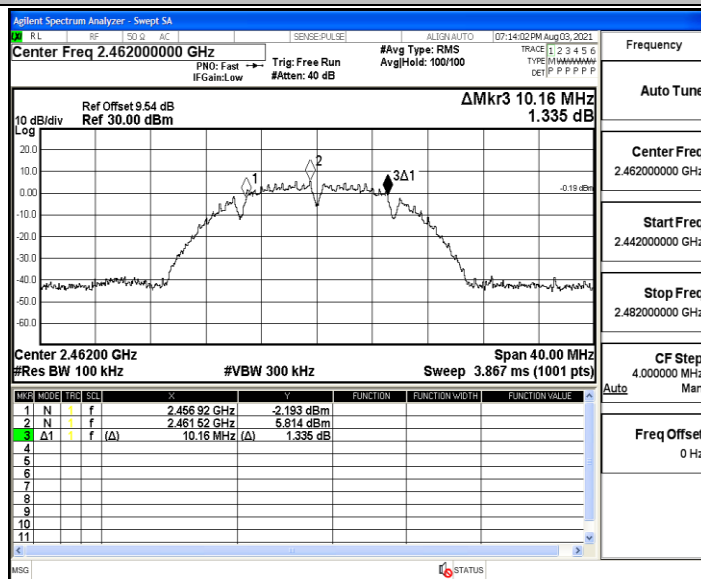




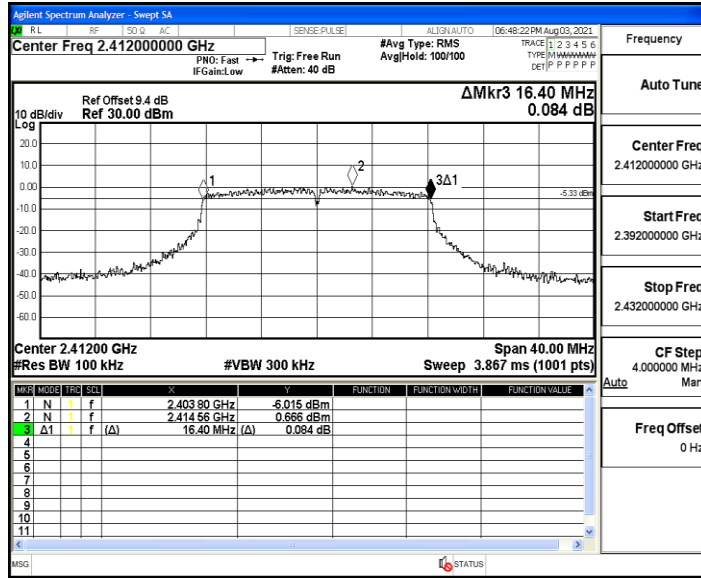
11B\_Ant1\_2462



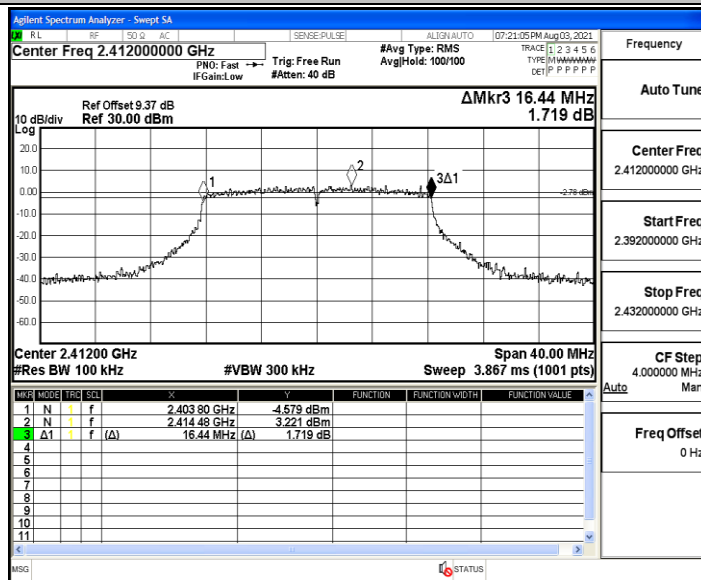
11B\_Ant2\_2462



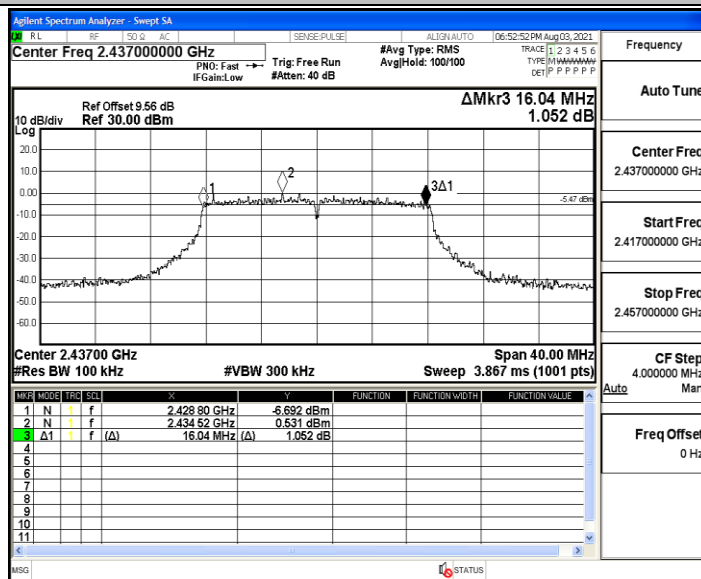
11G\_Ant1\_2412



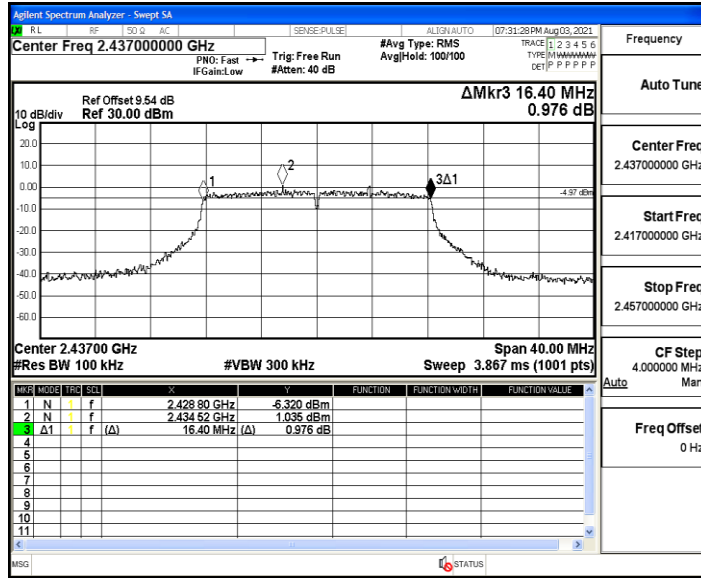
11G\_Ant2\_2412



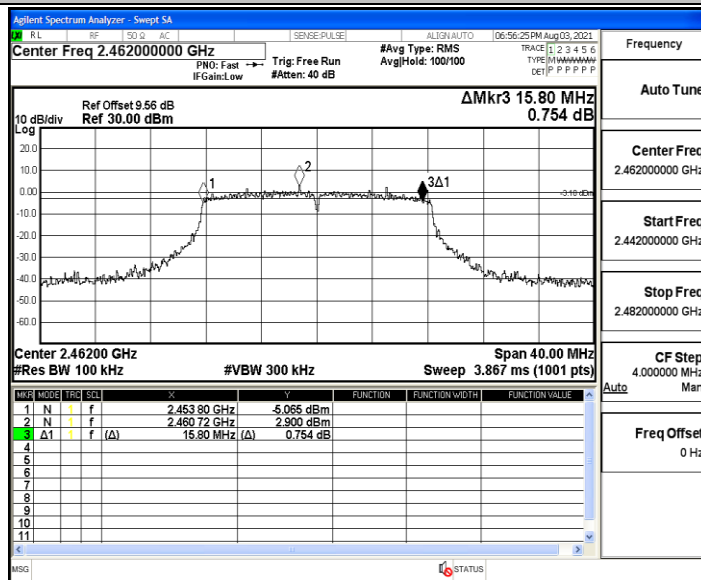
11G\_Ant1\_2437



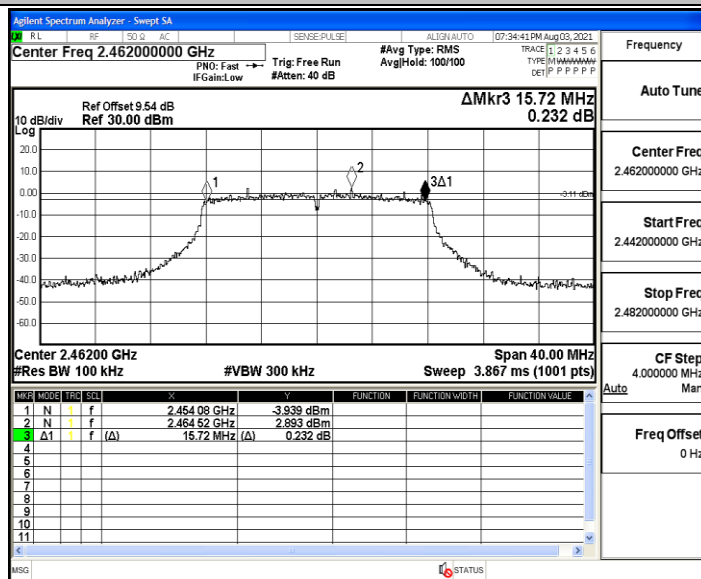
11G\_Ant2\_2437



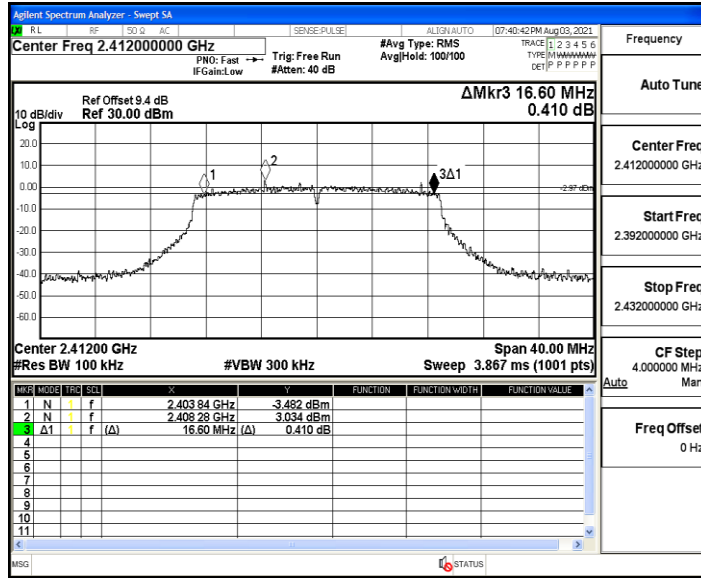
11G\_Ant1\_2462



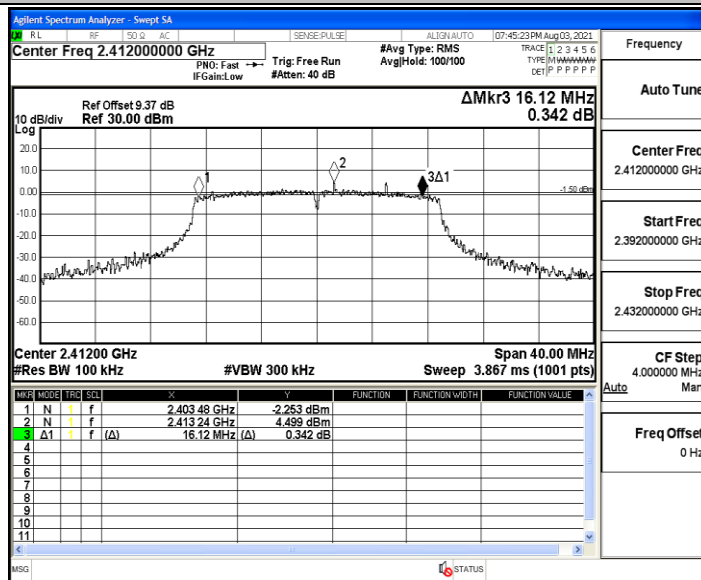
11G\_Ant2\_2462



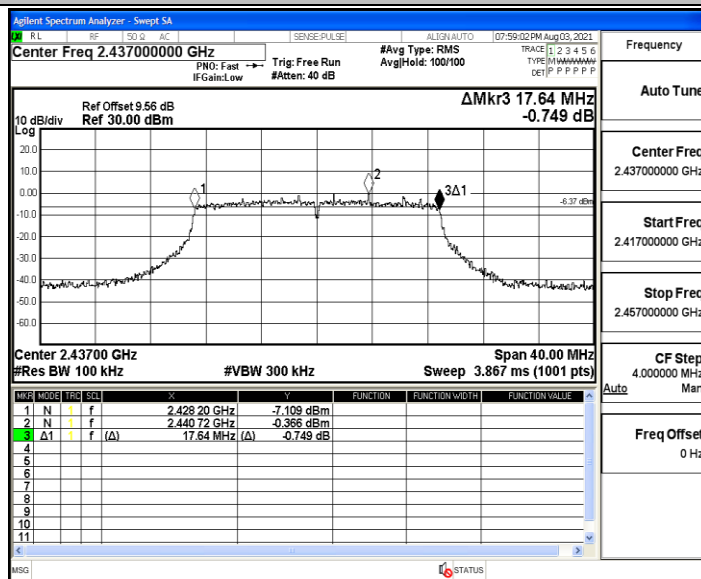
11N20MIMO\_Ant1\_2412



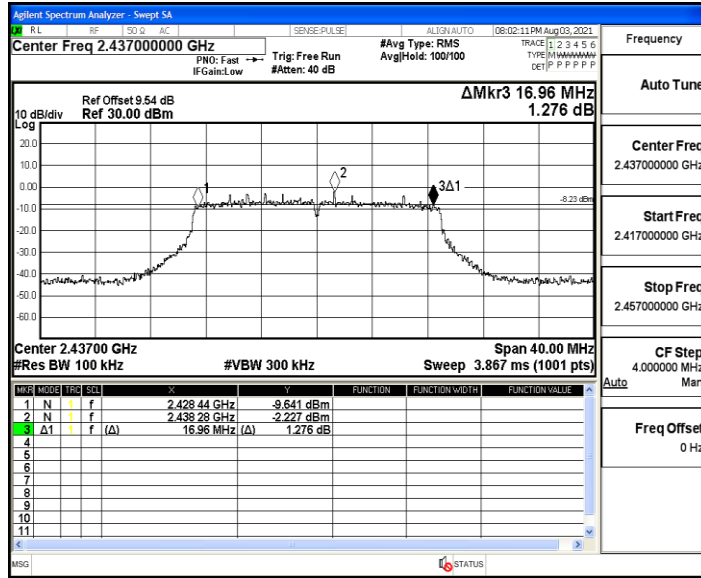
11N20MIMO\_Ant2\_2412



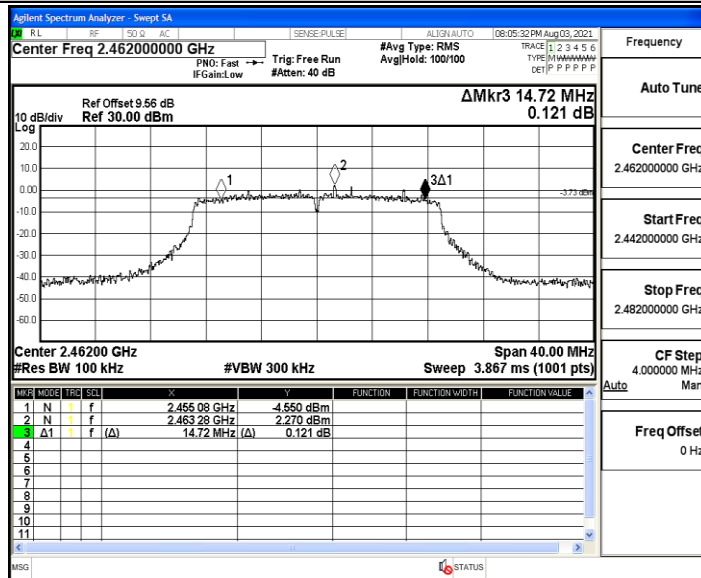
11N20MIMO\_Ant1\_2437



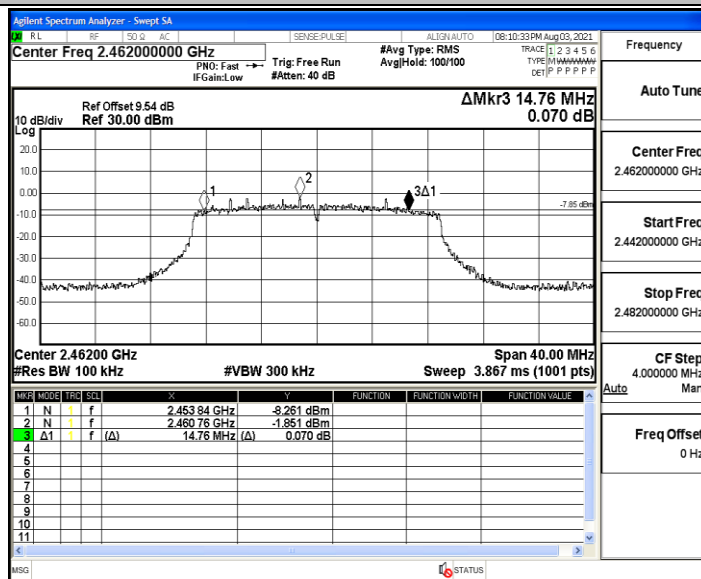
11N20MIMO\_Ant2\_2437



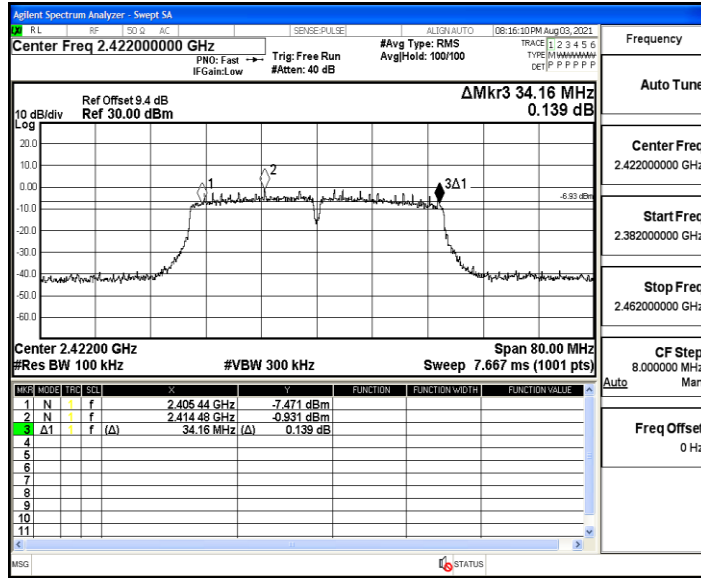
11N20MIMO\_Ant1\_2462



11N20MIMO\_Ant2\_2462

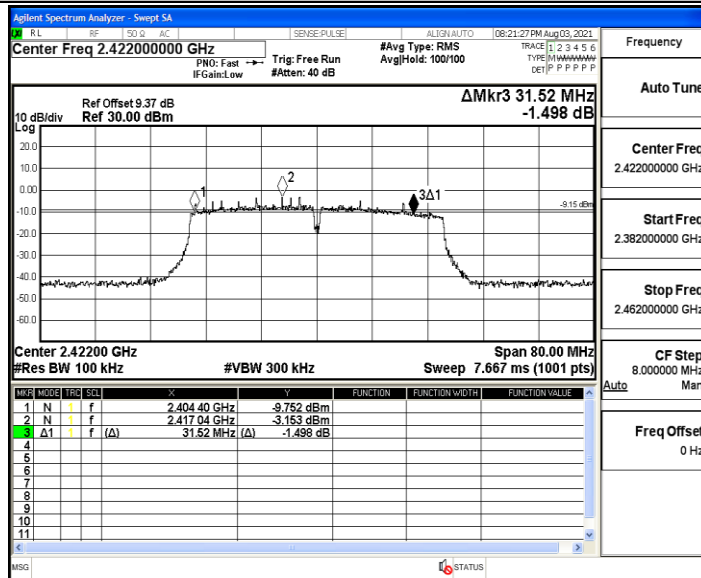


11N40MIMO\_Ant1\_2422



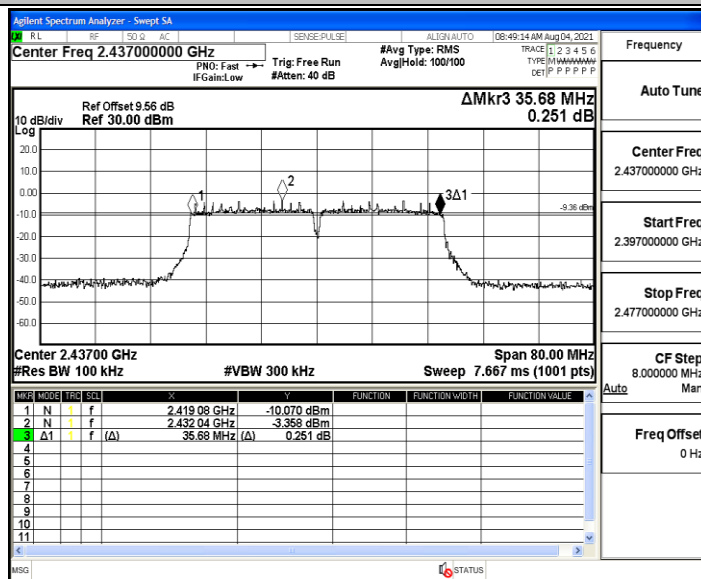
Frequency
Auto Tune
Center Freq 2.42200000 GHz
Start Freq 2.382000000 GHz
Stop Freq 2.462000000 GHz
CF Step 8.000000 MHz Man
Freq Offset 0 Hz

11N40MIMO\_Ant2\_2422



Frequency
Auto Tune
Center Freq 2.42200000 GHz
Start Freq 2.382000000 GHz
Stop Freq 2.462000000 GHz
CF Step 8.000000 MHz Man
Freq Offset 0 Hz

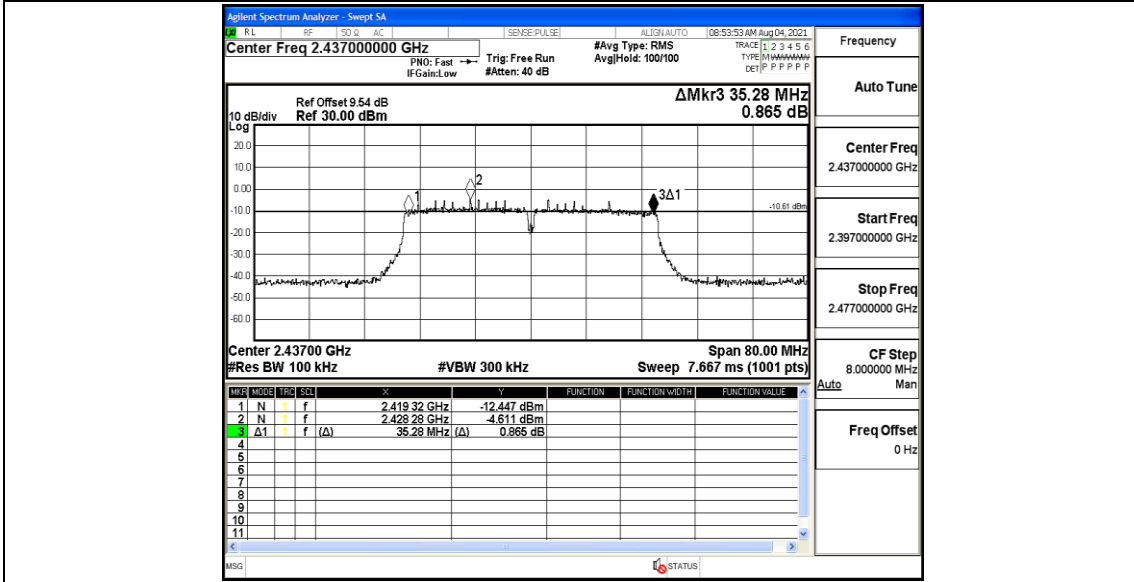
11N40MIMO\_Ant1\_2437



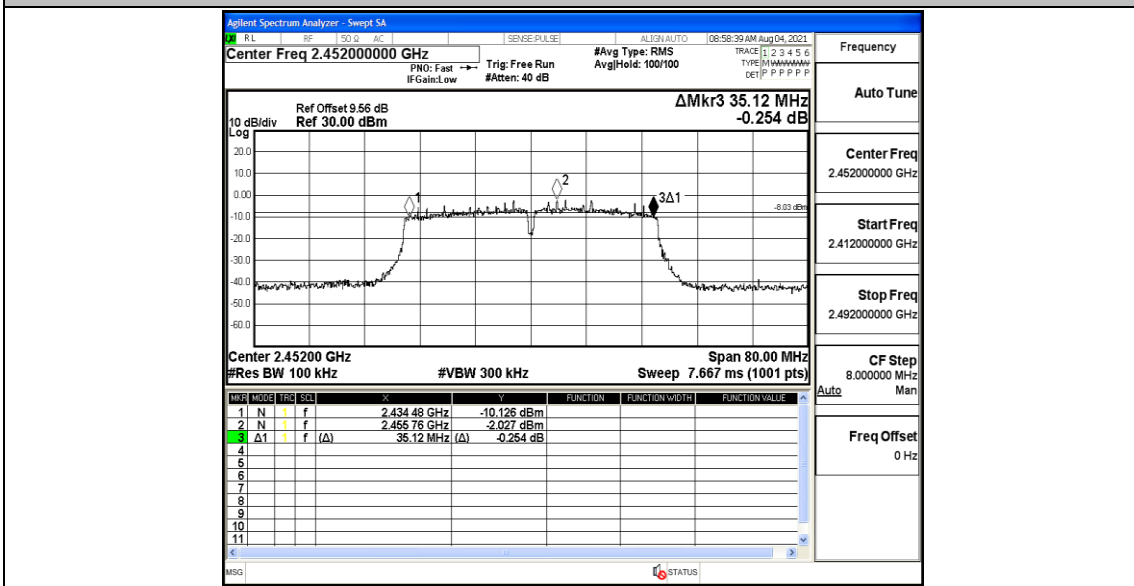
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Auto Tune
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Start Freq 2.397000000 GHz
Stop Freq 2.477000000 GHz
CF Step 8.000000 MHz Man
Freq Offset 0 Hz

11N40MIMO\_Ant2\_2437

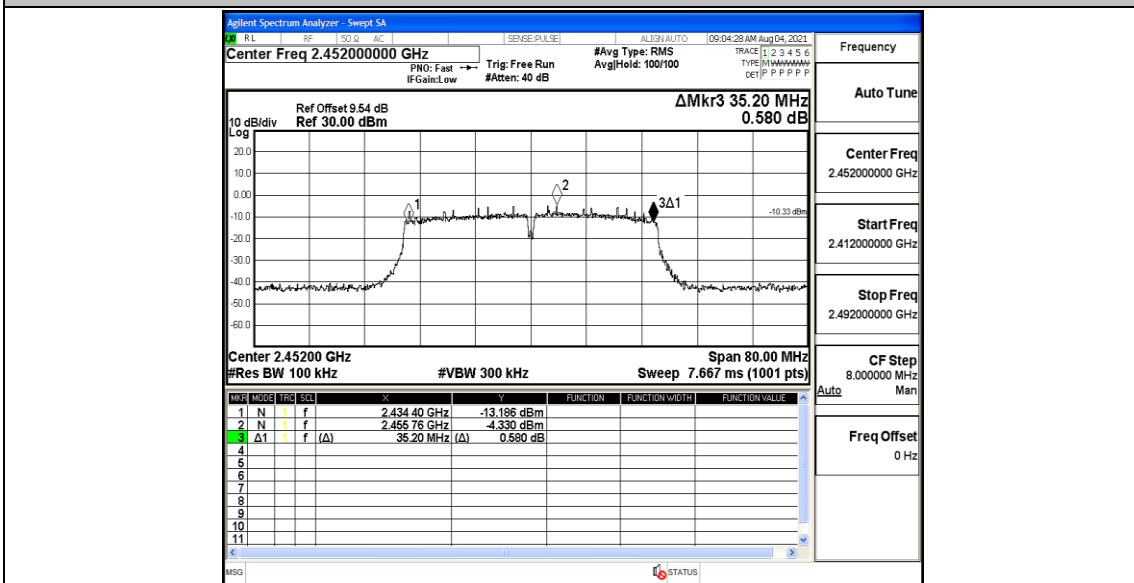




11N40MIMO\_Ant1\_2452



11N40MIMO\_Ant2\_2452

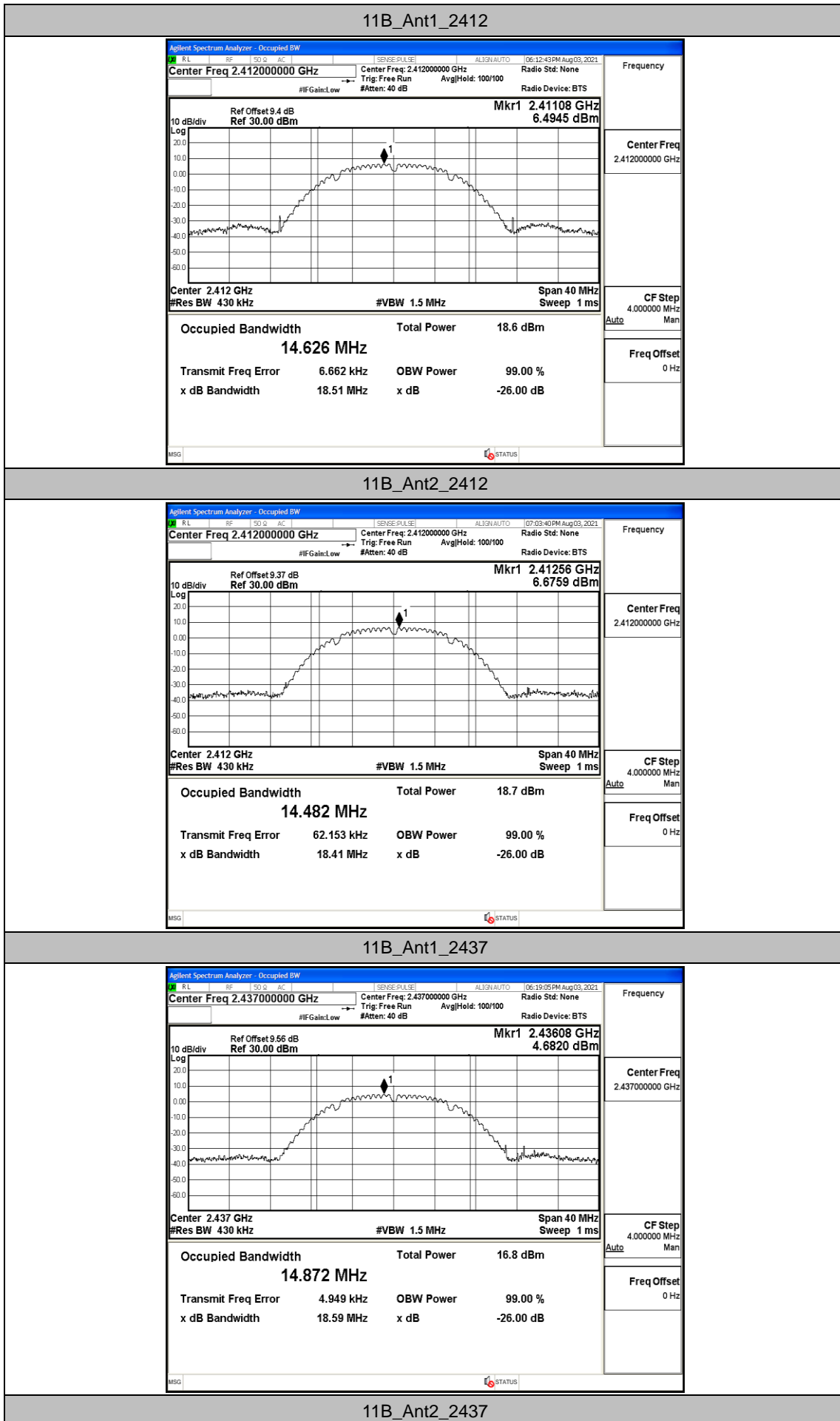


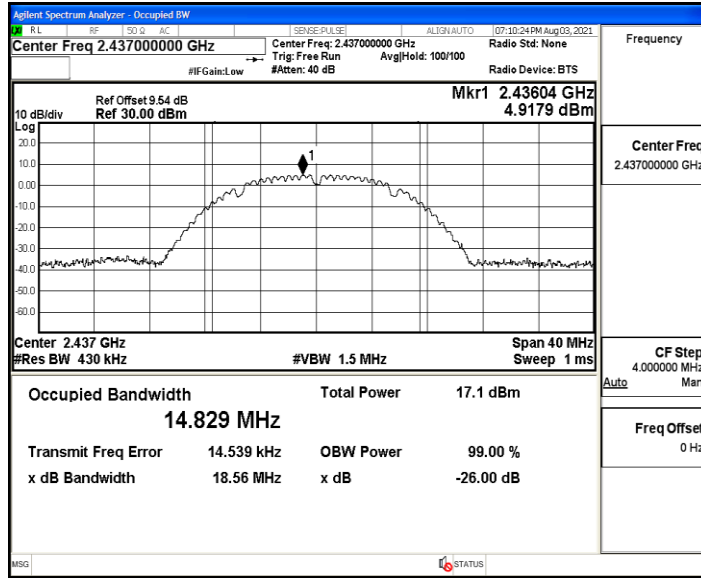
## Appendix B: Occupied Channel Bandwidth

### Test Result

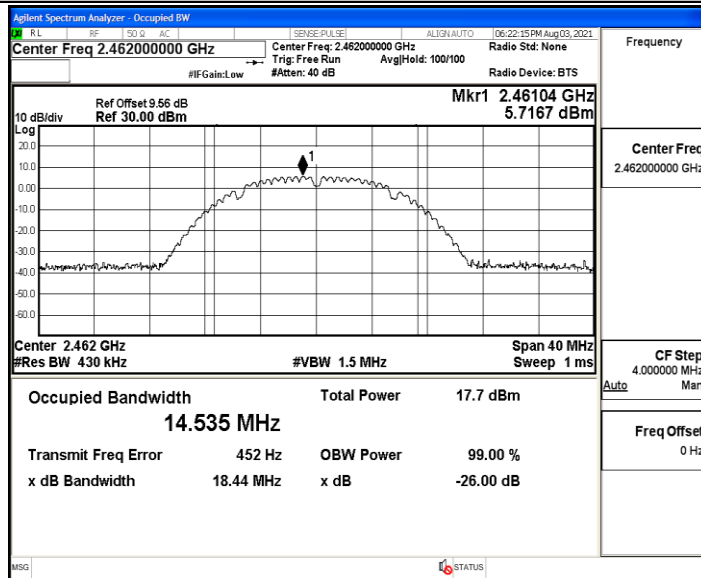
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.626	2404.694	2419.320	---	PASS
	Ant2	2412	14.482	2404.821	2419.303	---	PASS
	Ant1	2437	14.872	2429.569	2444.441	---	PASS
	Ant2	2437	14.829	2429.600	2444.429	---	PASS
	Ant1	2462	14.535	2454.733	2469.268	---	PASS
	Ant2	2462	14.563	2454.707	2469.270	---	PASS
11G	Ant1	2412	16.625	2403.723	2420.348	---	PASS
	Ant2	2412	16.726	2403.718	2420.444	---	PASS
	Ant1	2437	16.708	2428.666	2445.374	---	PASS
	Ant2	2437	16.781	2428.656	2445.437	---	PASS
	Ant1	2462	16.560	2453.734	2470.294	---	PASS
	Ant2	2462	16.712	2453.691	2470.403	---	PASS
11N20MIMO	Ant1	2412	17.858	2403.116	2420.974	---	PASS
	Ant2	2412	17.912	2403.120	2421.032	---	PASS
	Ant1	2437	17.952	2428.049	2446.001	---	PASS
	Ant2	2437	17.901	2428.051	2445.952	---	PASS
	Ant1	2462	17.803	2453.124	2470.927	---	PASS
	Ant2	2462	17.847	2453.065	2470.912	---	PASS
11N40MIMO	Ant1	2422	36.206	2403.892	2440.098	---	PASS
	Ant2	2422	36.083	2403.933	2440.016	---	PASS
	Ant1	2437	36.568	2418.755	2455.323	---	PASS
	Ant2	2437	36.516	2418.706	2455.222	---	PASS
	Ant1	2452	36.087	2434.069	2470.156	---	PASS
	Ant2	2452	36.160	2433.975	2470.135	---	PASS

### Test Graphs

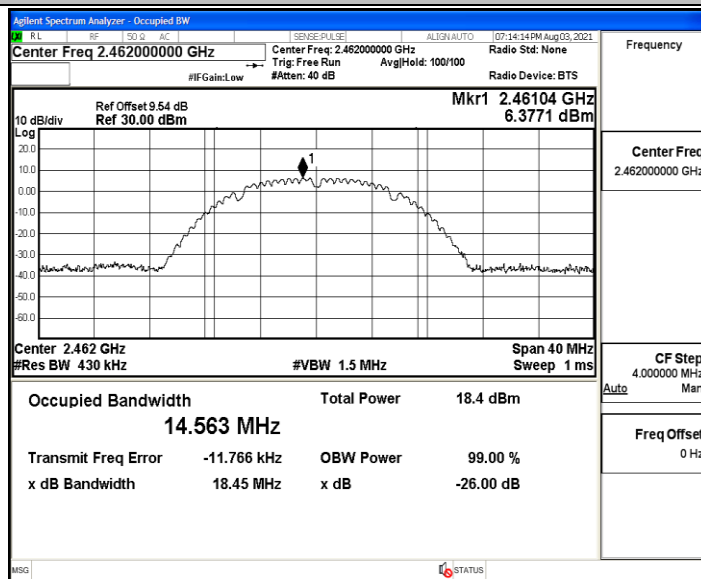




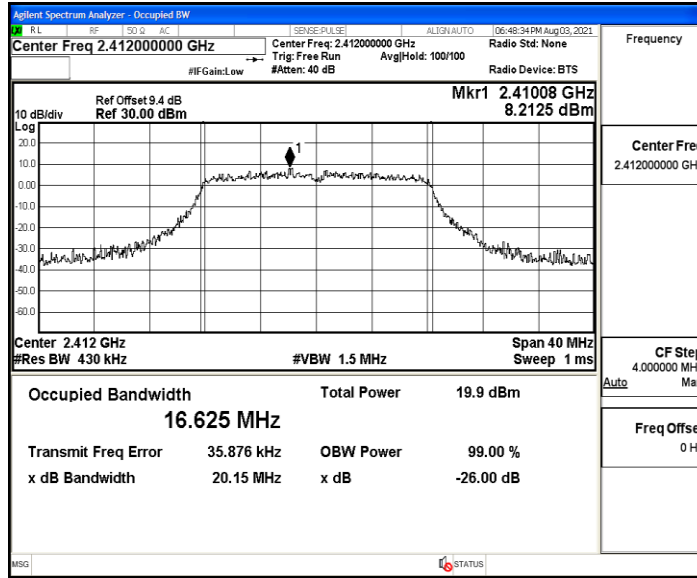
11B\_Ant1\_2462



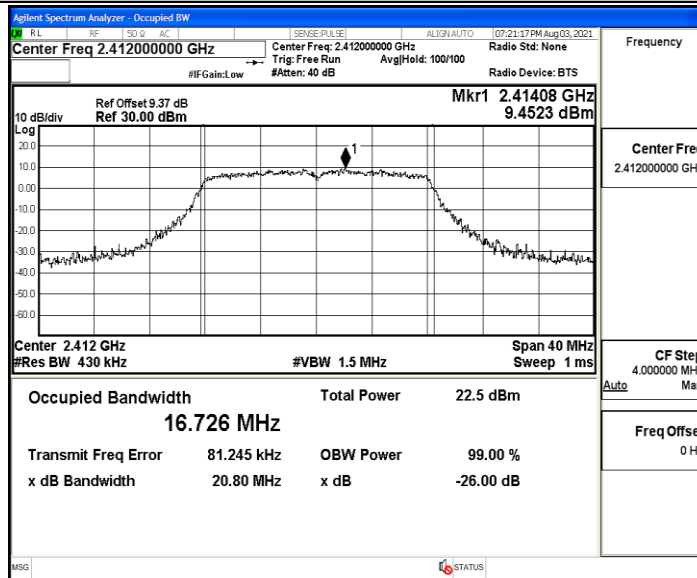
11B\_Ant2\_2462



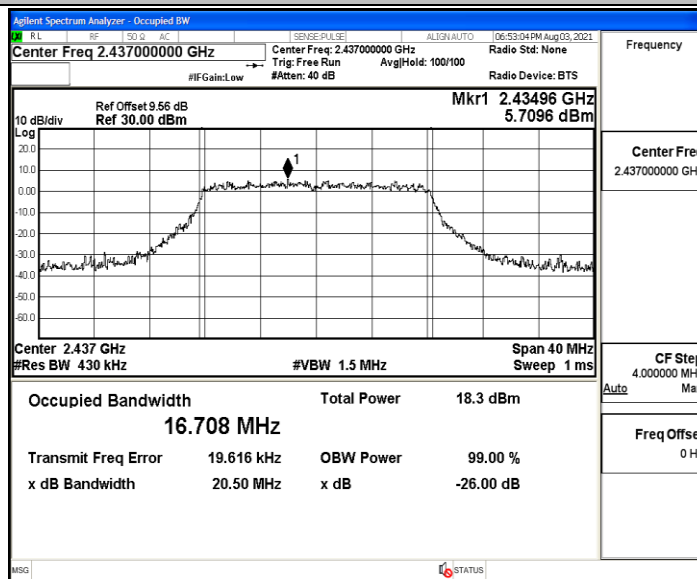
11G\_Ant1\_2412



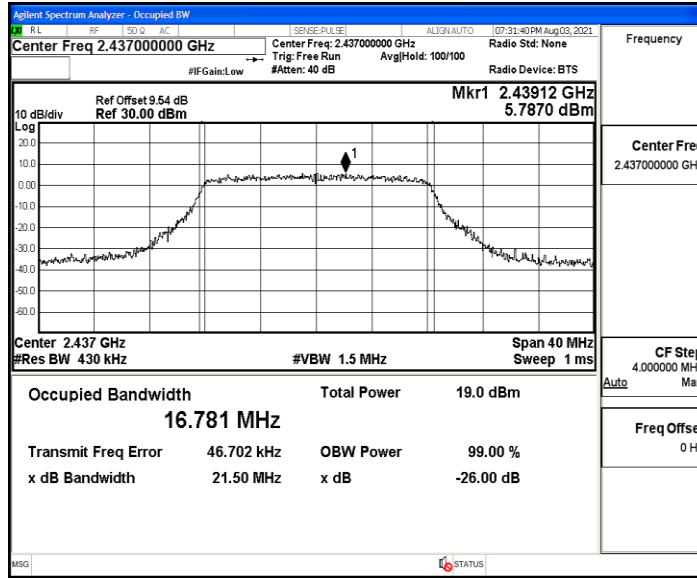
11G\_Ant2\_2412



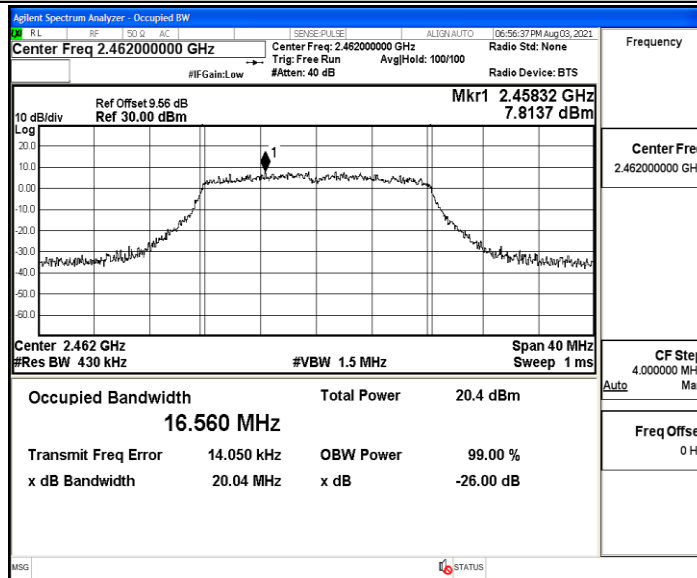
11G\_Ant1\_2437



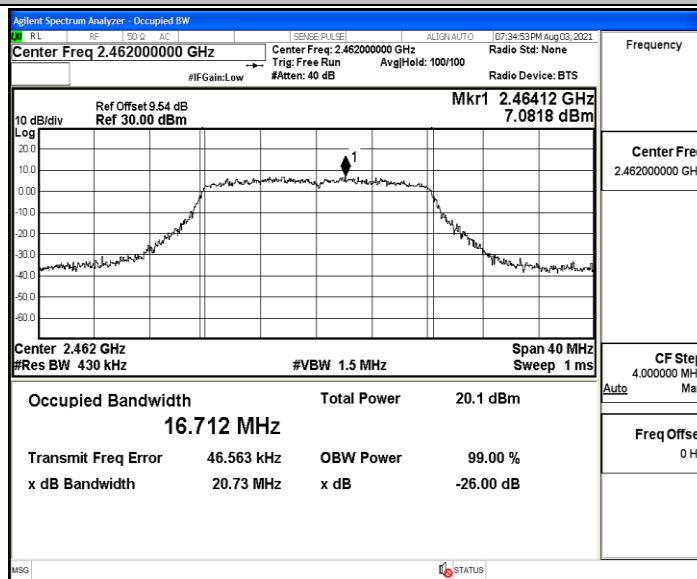
11G\_Ant2\_2437



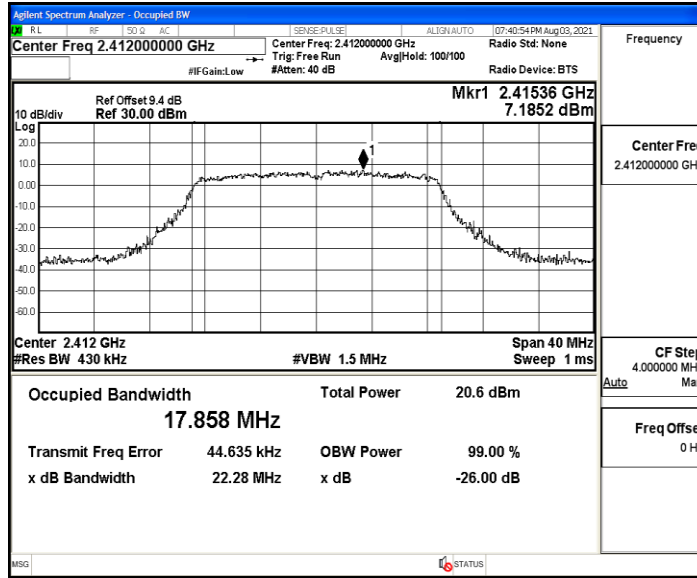
11G\_Ant1\_2462



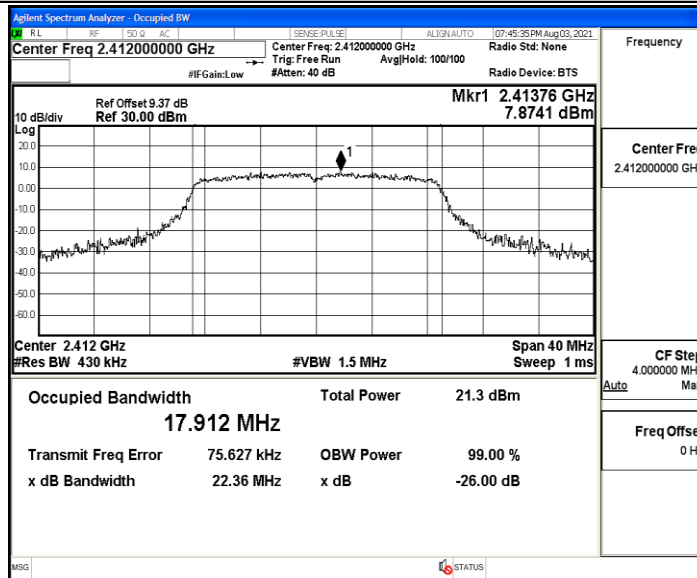
11G\_Ant2\_2462



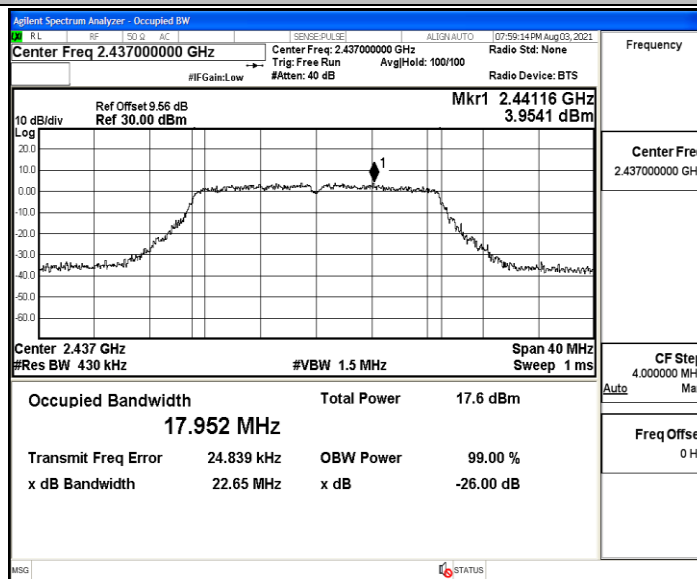
11N20MIMO\_Ant1\_2412



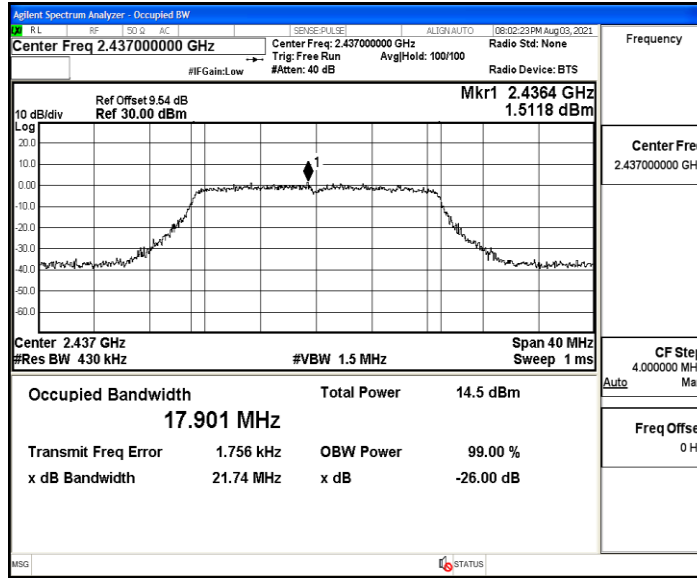
11N20MIMO\_Ant2\_2412



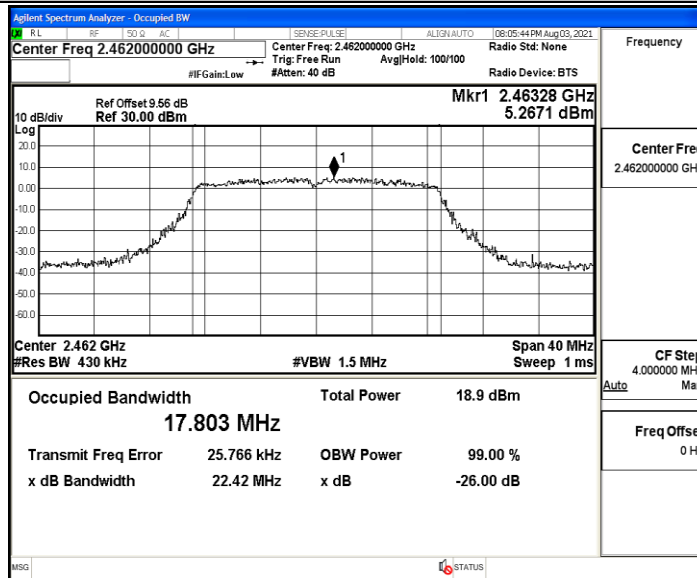
11N20MIMO\_Ant1\_2437



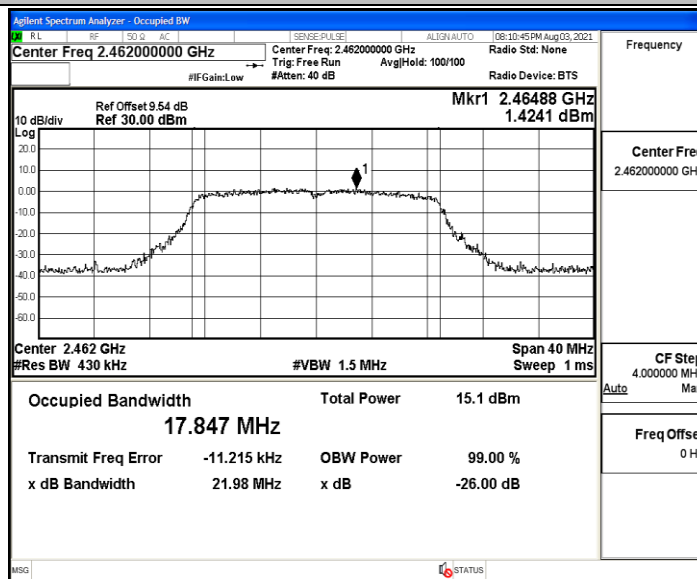
11N20MIMO\_Ant2\_2437



11N20MIMO\_Ant1\_2462

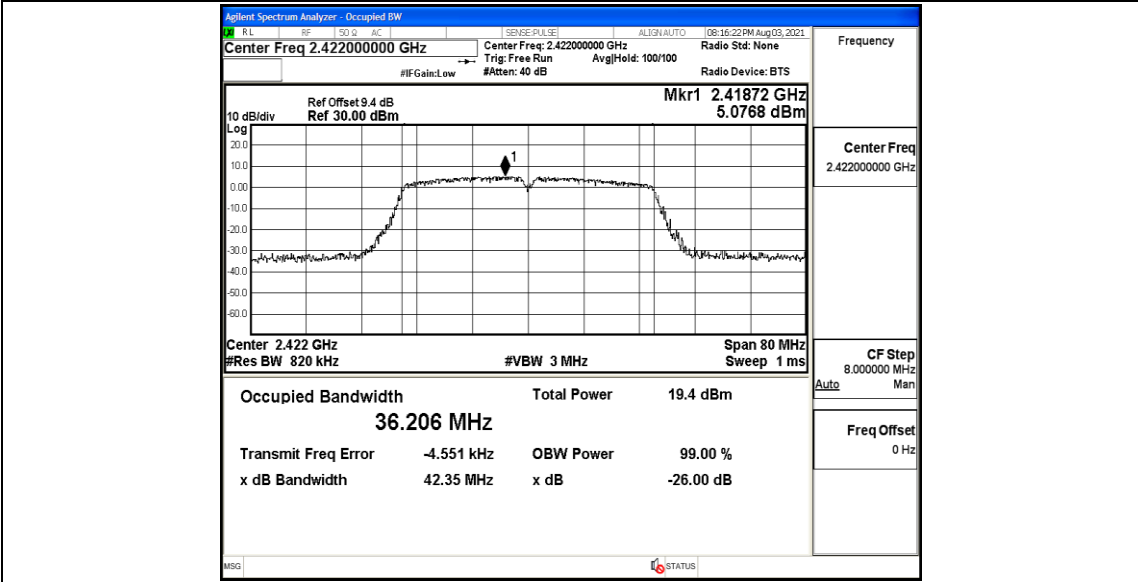


11N20MIMO\_Ant2\_2462

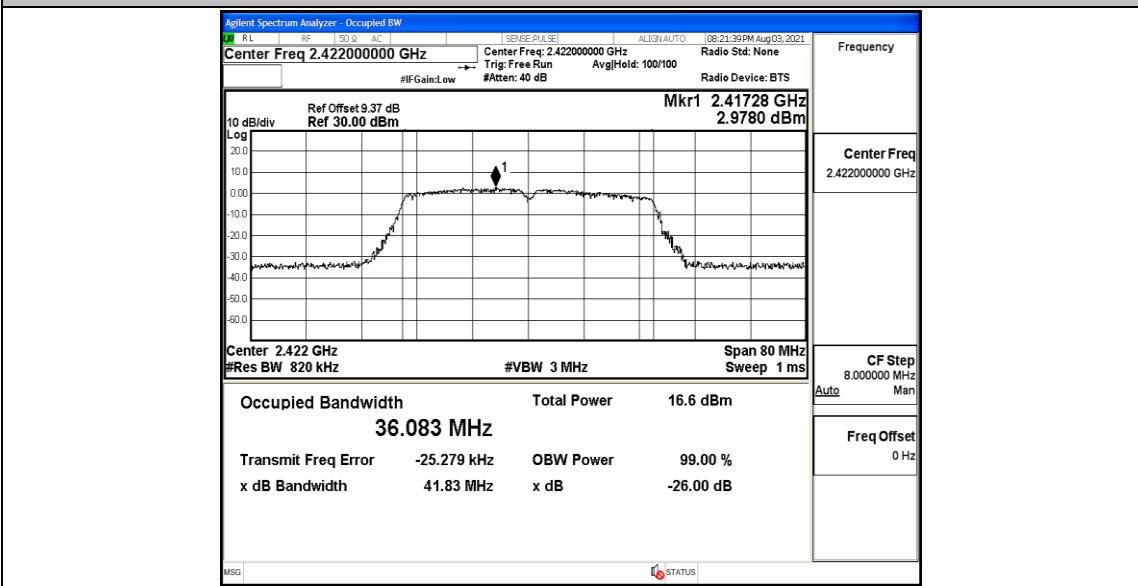


11N40MIMO\_Ant1\_2422

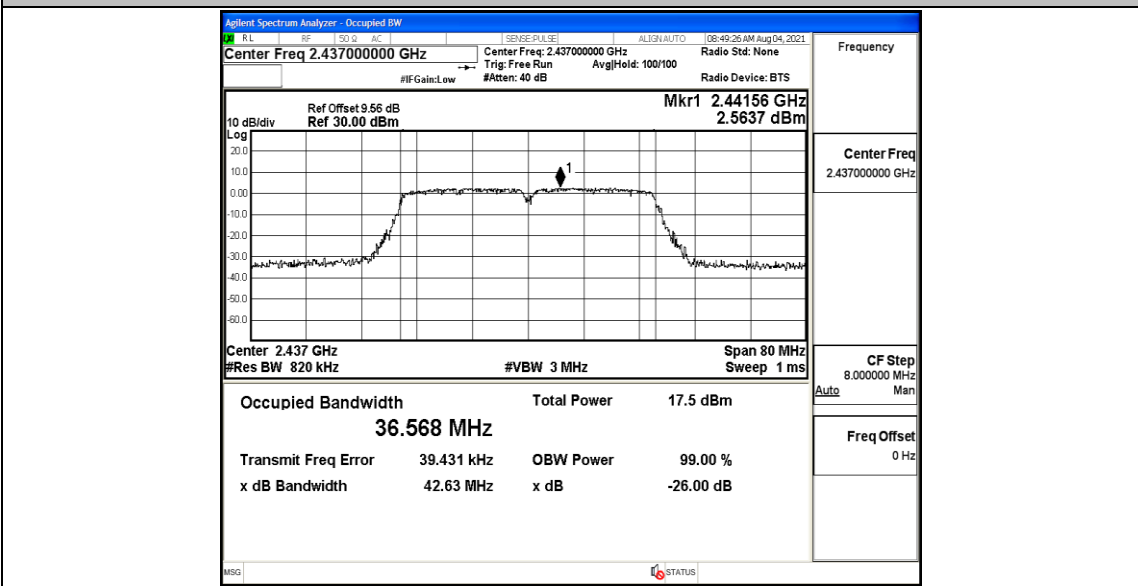




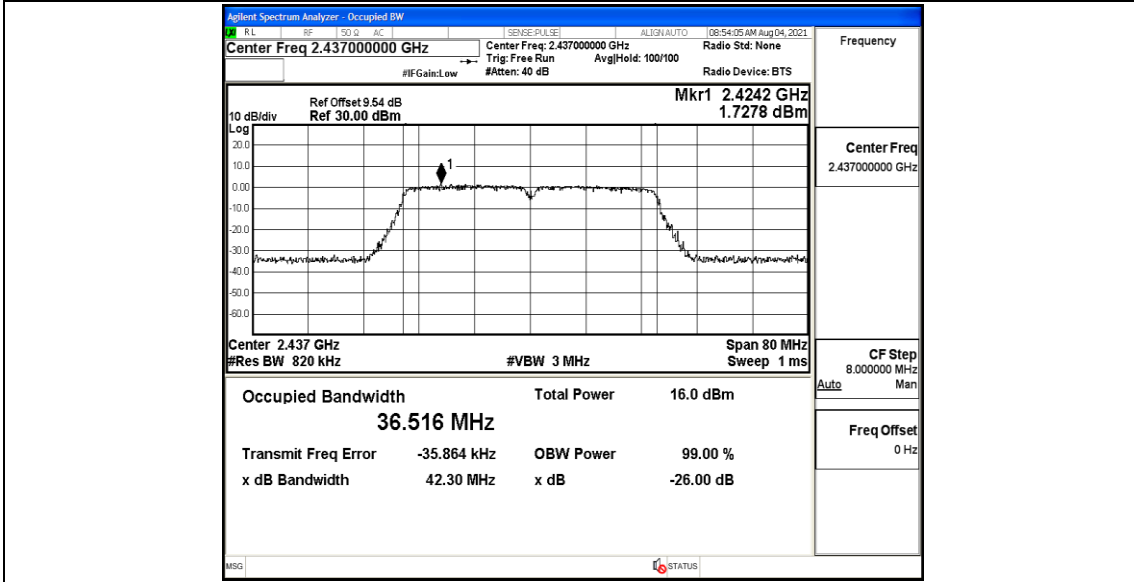
11N40MIMO\_Ant2\_2422



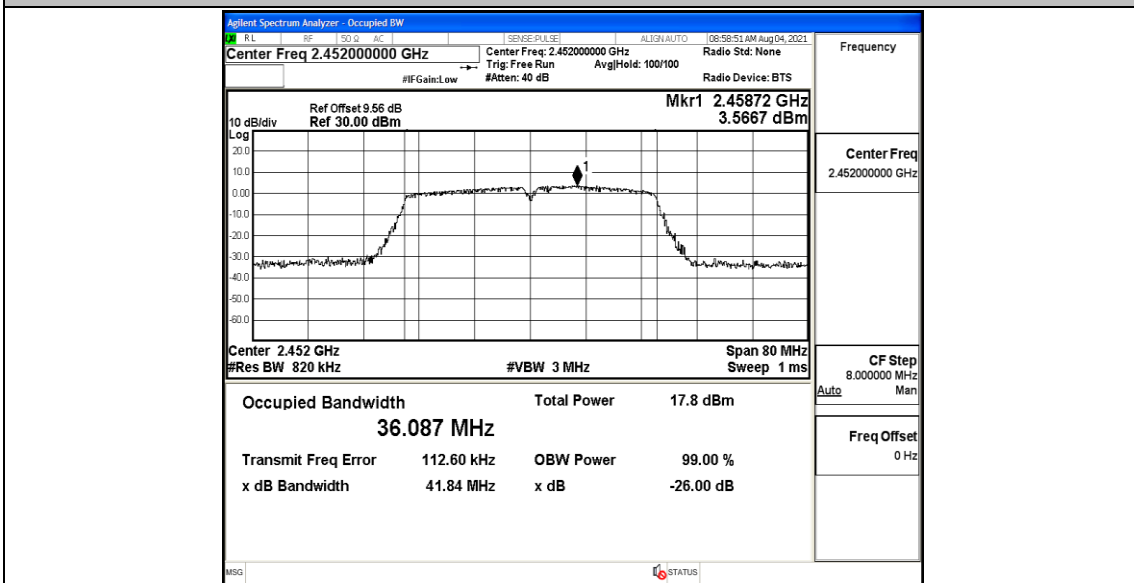
11N40MIMO\_Ant1\_2437



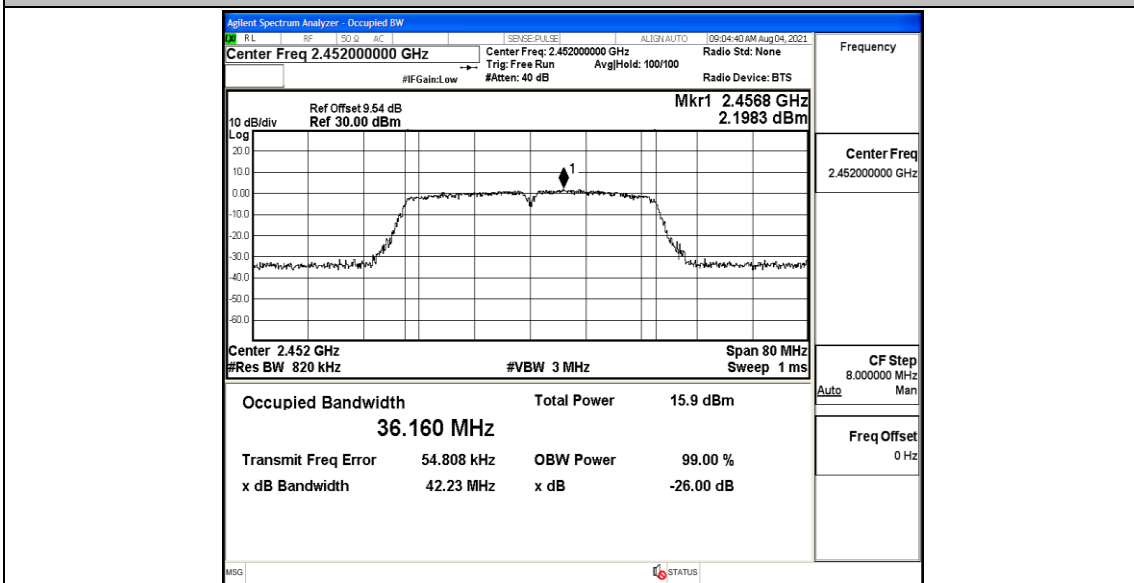
11N40MIMO\_Ant2\_2437



11N40MIMO\_Ant1\_2452



11N40MIMO\_Ant2\_2452



## Appendix C: Maximum conducted output power

### Test Result

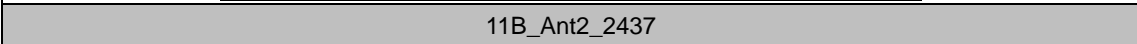
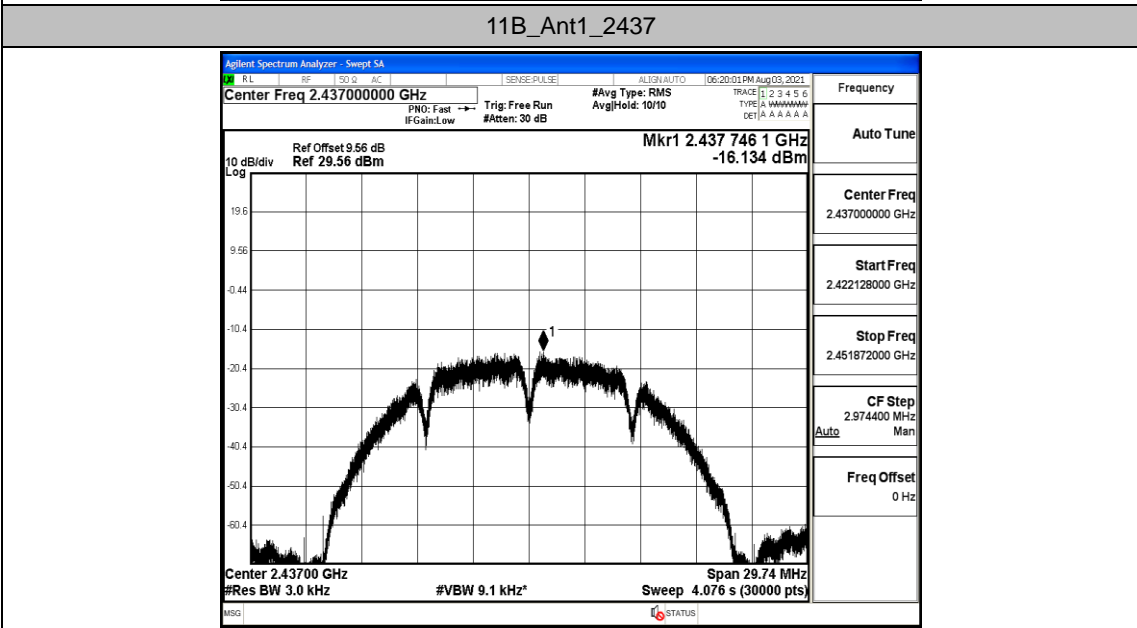
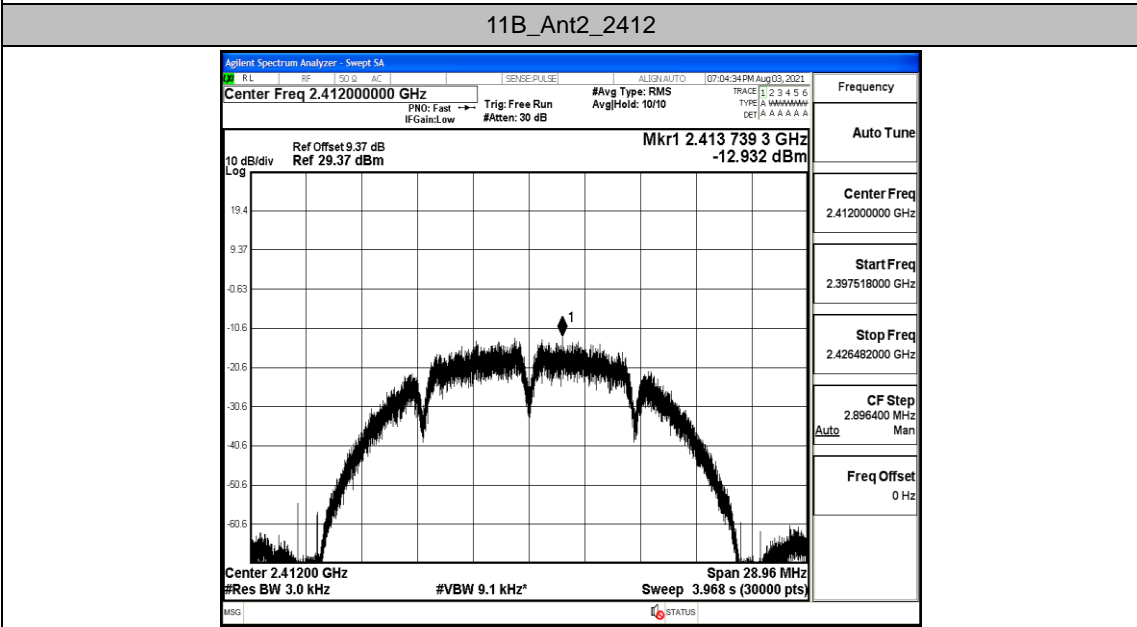
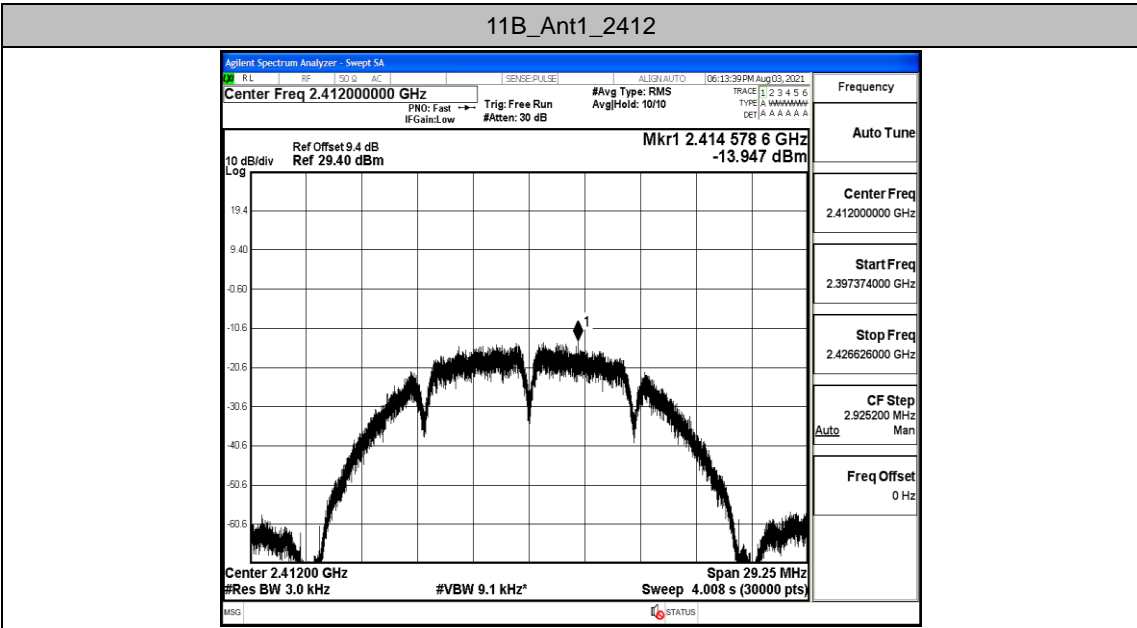
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.25	≤30	PASS
	Ant2	2412	15.53	≤30	PASS
	Ant1	2437	13.89	≤30	PASS
	Ant2	2437	14.04	≤30	PASS
	Ant1	2462	14.56	≤30	PASS
	Ant2	2462	15.52	≤30	PASS
11G	Ant1	2412	13.54	≤30	PASS
	Ant2	2412	13.85	≤30	PASS
	Ant1	2437	11.83	≤30	PASS
	Ant2	2437	12.76	≤30	PASS
	Ant1	2462	14.04	≤30	PASS
	Ant2	2462	14.27	≤30	PASS
11N20MIMO	Ant1	2412	13.36	≤30	PASS
	Ant2	2412	10.61	≤30	PASS
	total	2412	15.2	≤30	PASS
	Ant1	2437	11.75	≤30	PASS
	Ant2	2437	8.50	≤30	PASS
	total	2437	13.4	≤30	PASS
	Ant1	2462	12.64	≤30	PASS
	Ant2	2462	9.14	≤30	PASS
	total	2462	14.2	≤30	PASS
11N40MIMO	Ant1	2422	11.63	≤30	PASS
	Ant2	2422	9.86	≤30	PASS
	total	2422	14.5	≤30	PASS
	Ant1	2437	10.69	≤30	PASS
	Ant2	2437	9.39	≤30	PASS
	total	2437	13.1	≤30	PASS
	Ant1	2452	11.85	≤30	PASS
	Ant2	2452	8.87	≤30	PASS
	total	2452	13.6	≤30	PASS

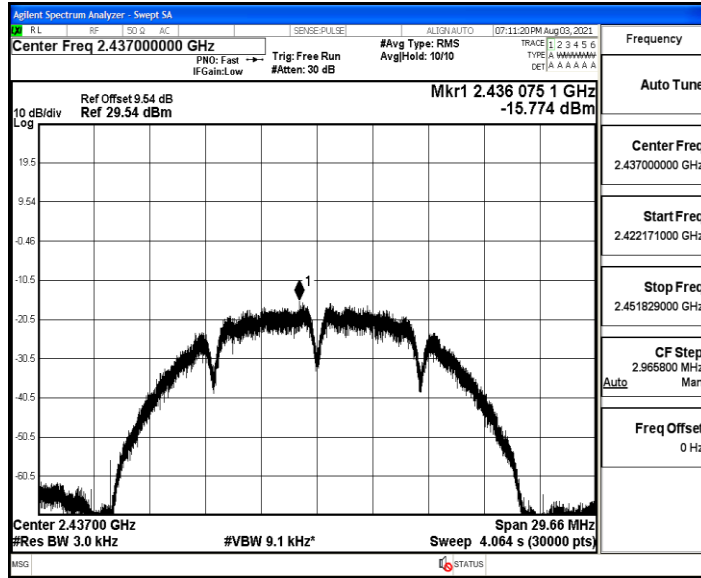
## Appendix D: Maximum power spectral density

### Test Result

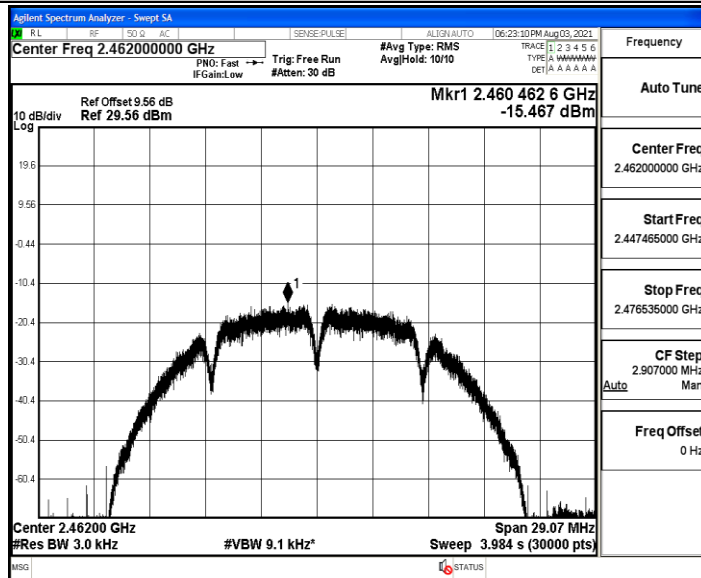
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-13.95	≤8	PASS
	Ant2	2412	-12.93	≤8	PASS
	Ant1	2437	-16.13	≤8	PASS
	Ant2	2437	-15.77	≤8	PASS
	Ant1	2462	-15.47	≤8	PASS
	Ant2	2462	-14.08	≤8	PASS
11G	Ant1	2412	-16.86	≤8	PASS
	Ant2	2412	-15.98	≤8	PASS
	Ant1	2437	-17.64	≤8	PASS
	Ant2	2437	-16.63	≤8	PASS
	Ant1	2462	-16.27	≤8	PASS
	Ant2	2462	-15.56	≤8	PASS
11N20MIMO	Ant1	2412	-17.3	≤8	PASS
	Ant2	2412	-18.5	≤8	PASS
	total	2412	-14.85	≤8	PASS
	Ant1	2437	-18.78	≤8	PASS
	Ant2	2437	-21.67	≤8	PASS
	total	2437	-16.98	≤8	PASS
	Ant1	2462	-17.45	≤8	PASS
	Ant2	2462	-20.99	≤8	PASS
	total	2462	-15.86	≤8	PASS
11N40MIMO	Ant1	2422	-20.9	≤8	PASS
	Ant2	2422	-21.15	≤8	PASS
	total	2422	-16.25	≤8	PASS
	Ant1	2437	-22.26	≤8	PASS
	Ant2	2437	-23.23	≤8	PASS
	total	2437	-19.71	≤8	PASS
	Ant1	2452	-19.26	≤8	PASS
	Ant2	2452	-22.74	≤8	PASS
	total	2452	-17.65	≤8	PASS

Test Graphs

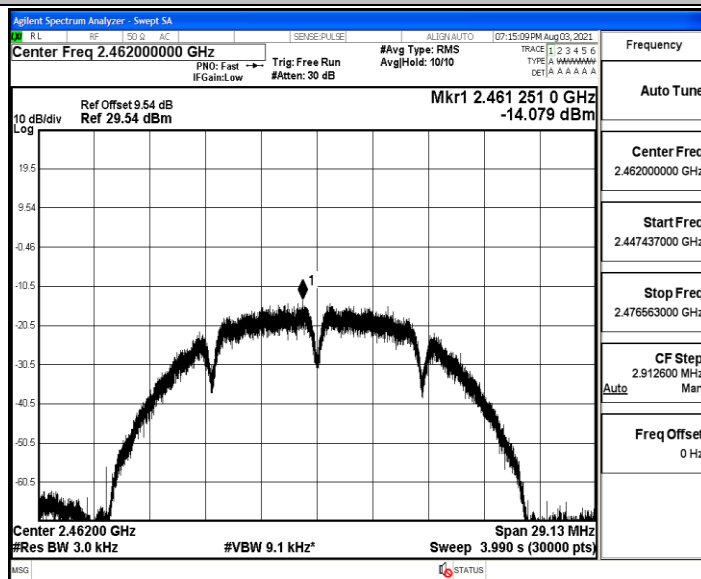




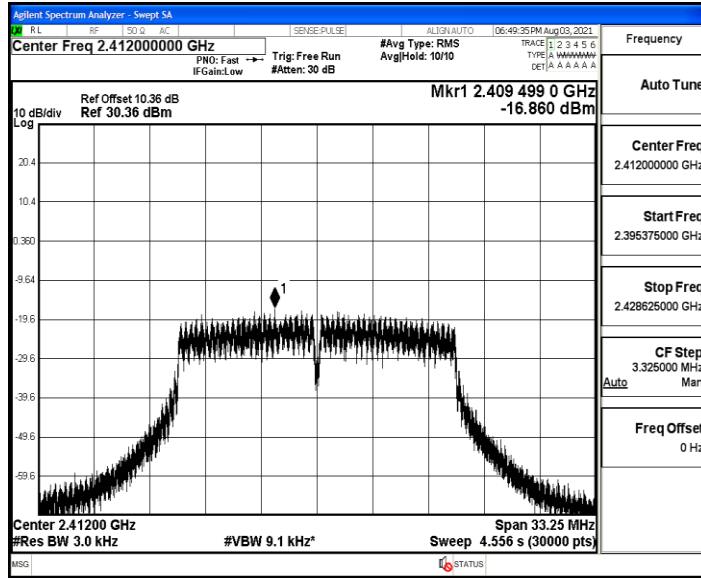
11B\_Ant1\_2462



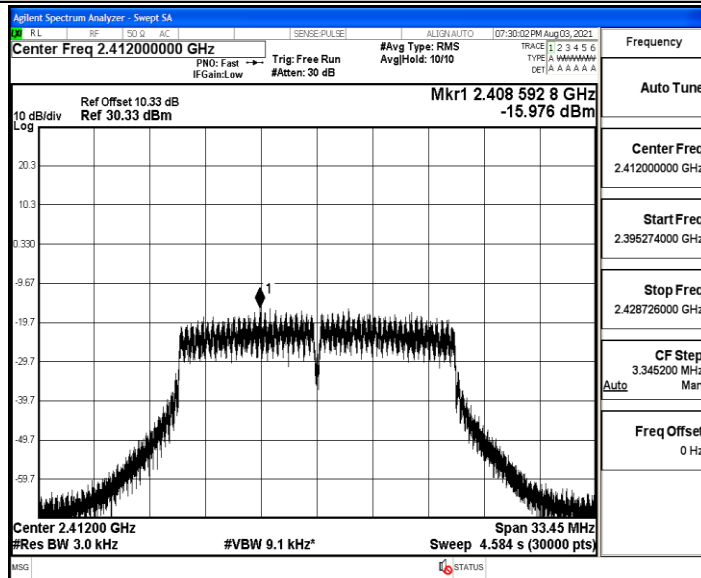
11B\_Ant2\_2462



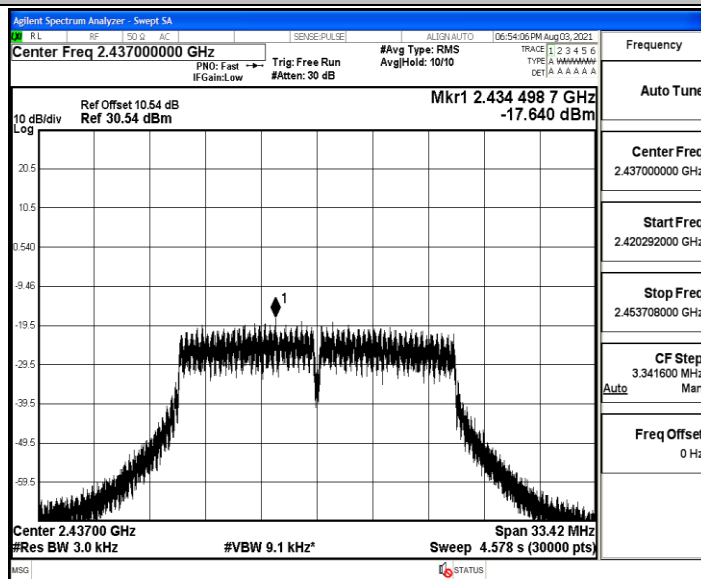
11G\_Ant1\_2412



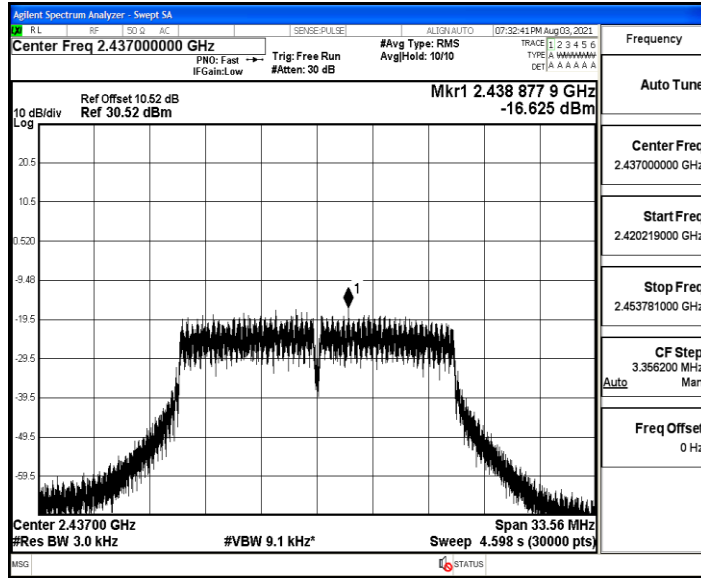
11G\_Ant2\_2412



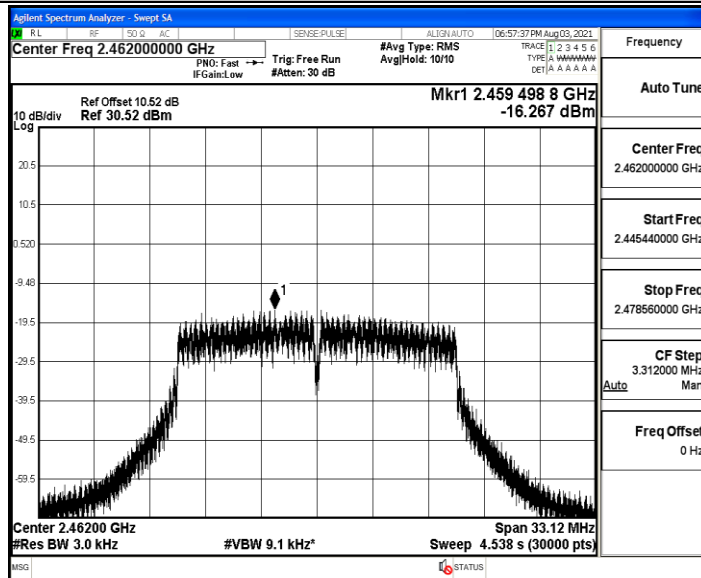
11G\_Ant1\_2437



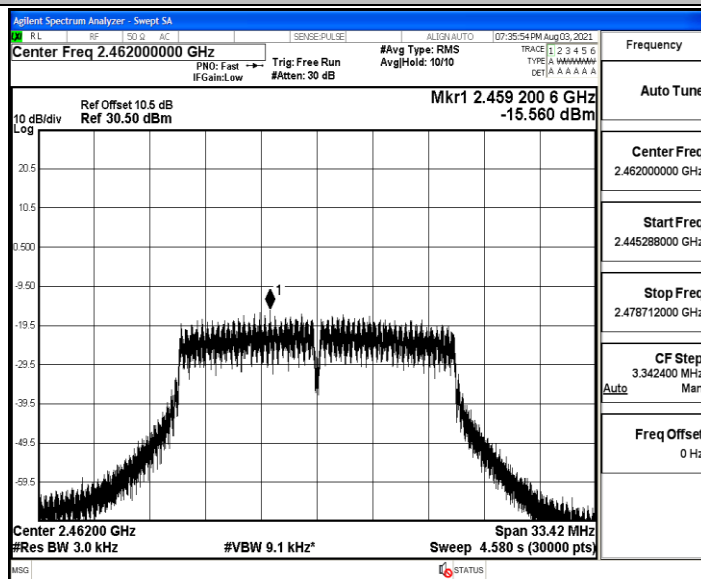
11G\_Ant2\_2437



11G\_Ant1\_2462

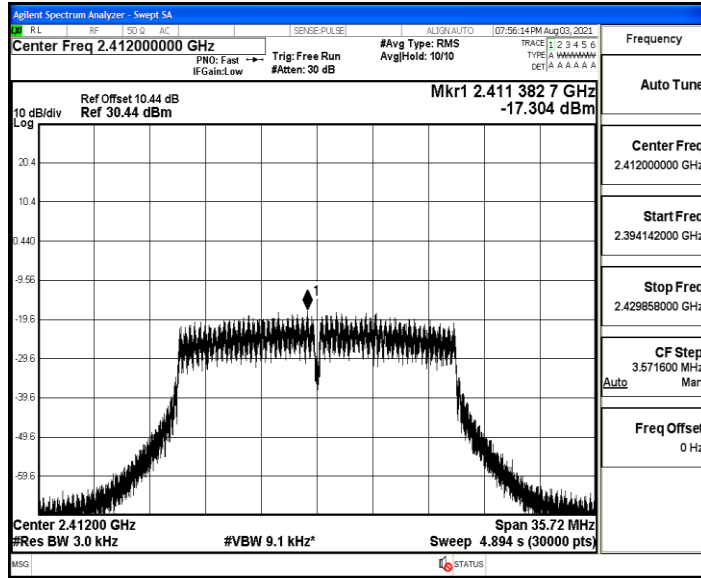


11G\_Ant2\_2462

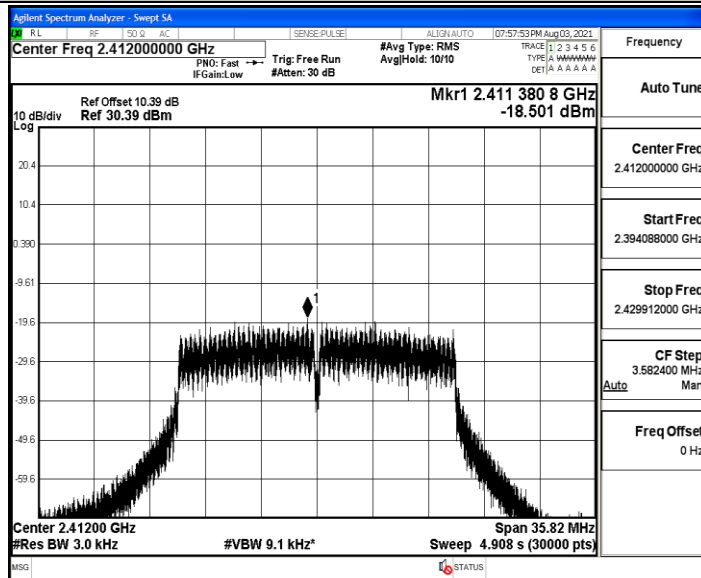


11N20MIMO\_Ant1\_2412

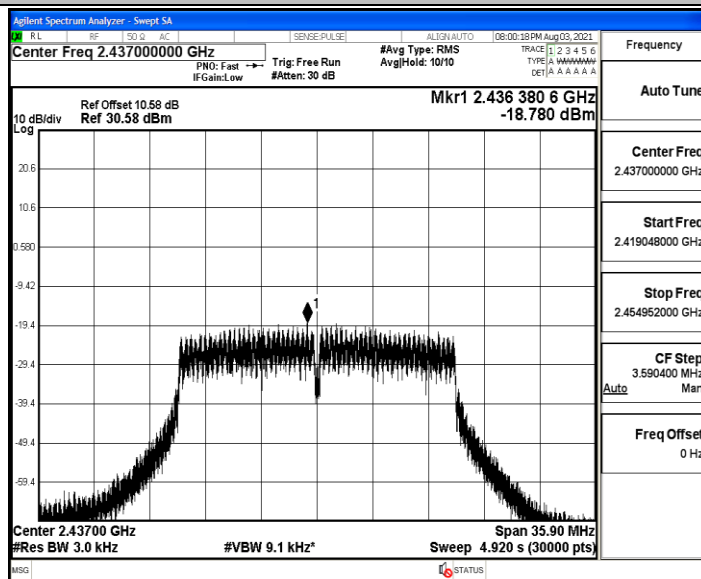




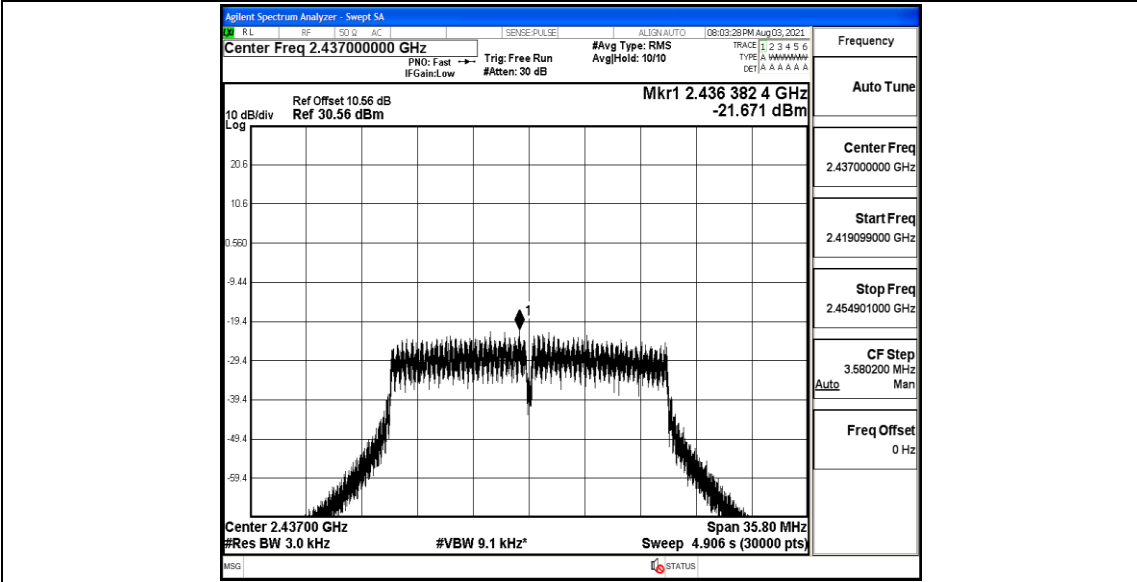
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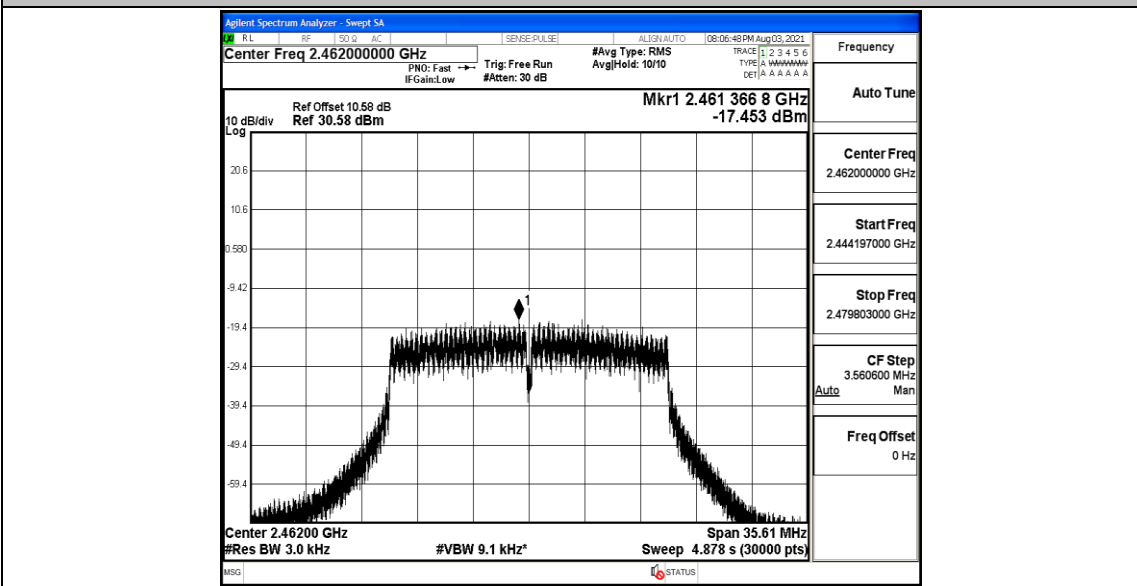
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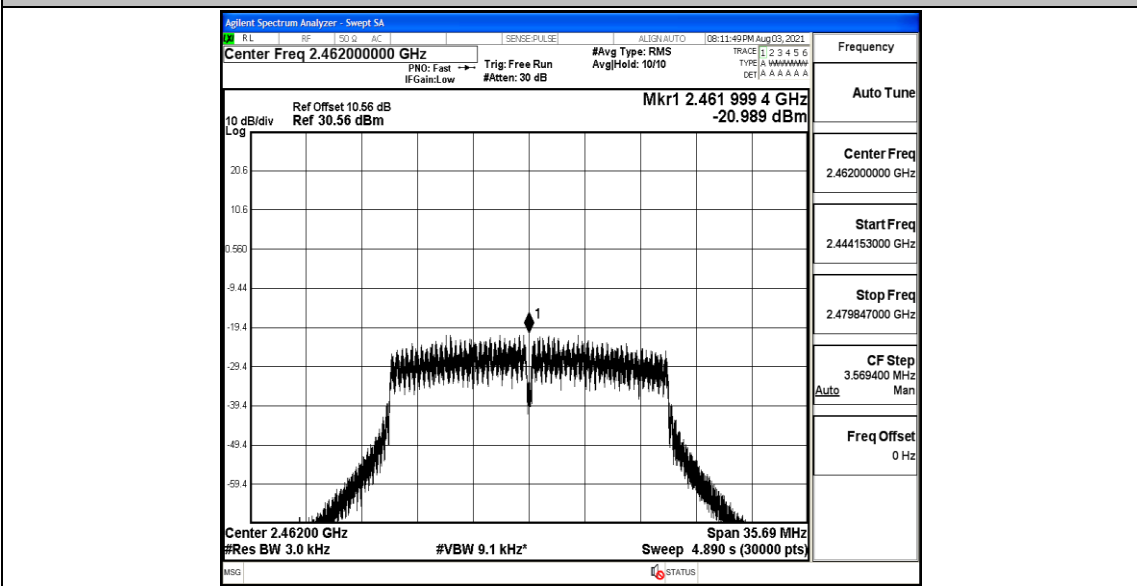
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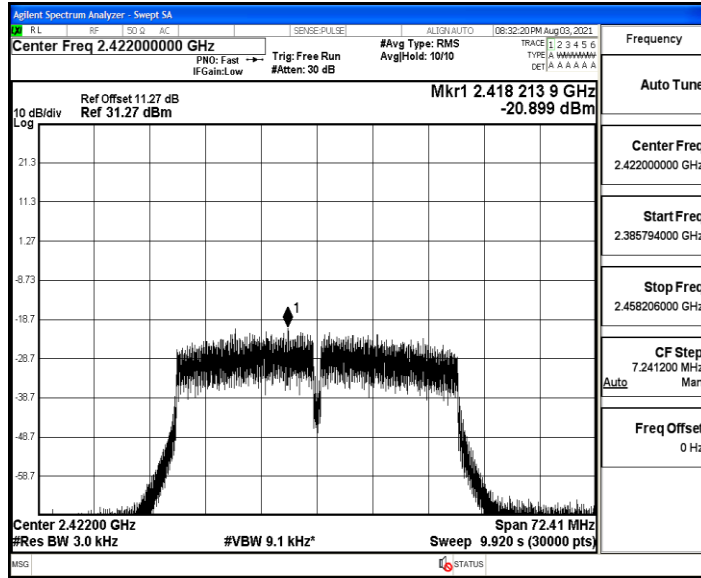
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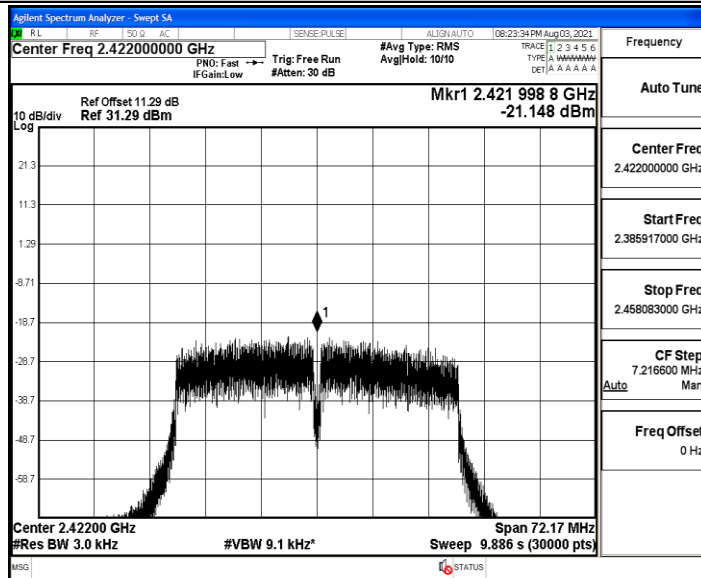
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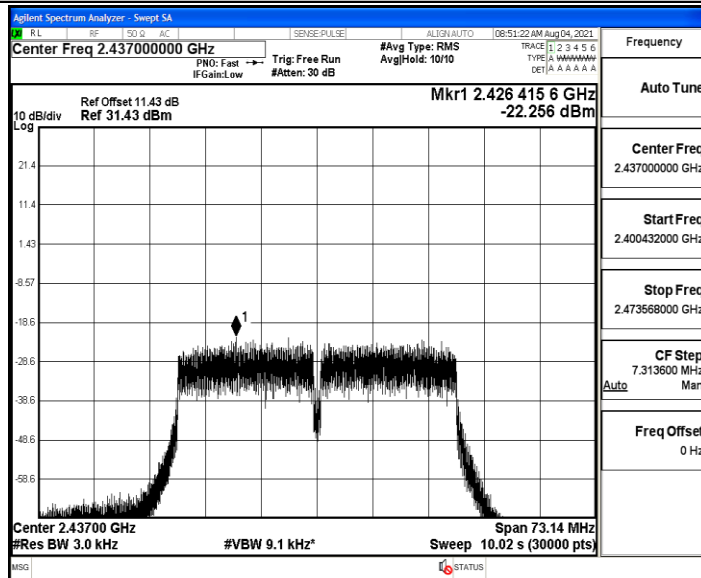
11N40MIMO\_Ant1\_2422



11N40MIMO\_Ant2\_2422



11N40MIMO\_Ant1\_2437



11N40MIMO\_Ant2\_2437