

Appendix: 2.4G WIFI

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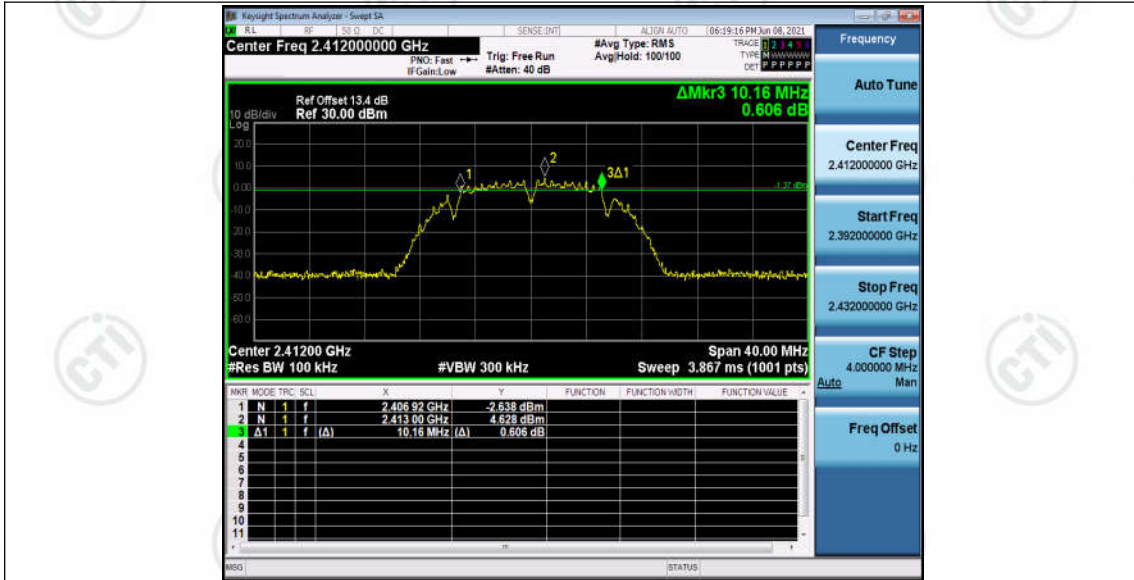
## Appendix A: DTS Bandwidth

### Test Result

Test Mode	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	9.880	2407.240	2417.120	0.5	PASS
	Ant1	2437	10.080	2432.000	2442.080	0.5	PASS
	Ant2	2437	10.200	2431.920	2442.120	0.5	PASS
	Ant1	2462	10.160	2456.880	2467.040	0.5	PASS
	Ant2	2462	9.880	2456.880	2466.760	0.5	PASS
11G	Ant1	2412	15.080	2404.480	2419.560	0.5	PASS
	Ant2	2412	14.240	2404.440	2418.680	0.5	PASS
	Ant1	2437	13.800	2430.720	2444.520	0.5	PASS
	Ant2	2437	11.800	2431.880	2443.680	0.5	PASS
	Ant1	2462	15.520	2454.080	2469.600	0.5	PASS
	Ant2	2462	14.240	2454.080	2468.320	0.5	PASS
11N20SISO	Ant1	2412	16.080	2404.480	2420.560	0.5	PASS
	Ant2	2412	13.880	2404.480	2418.360	0.5	PASS
	Ant1	2437	15.120	2429.480	2444.600	0.5	PASS
	Ant2	2437	15.160	2429.440	2444.600	0.5	PASS
	Ant1	2462	15.440	2454.080	2469.520	0.5	PASS
	Ant2	2462	14.520	2453.160	2467.680	0.5	PASS
11N40SISO	Ant1	2422	32.720	2406.880	2439.600	0.5	PASS
	Ant2	2422	32.720	2406.880	2439.600	0.5	PASS
	Ant1	2437	31.520	2423.080	2454.600	0.5	PASS
	Ant2	2437	32.800	2420.600	2453.400	0.5	PASS
	Ant1	2452	32.720	2436.880	2469.600	0.5	PASS
	Ant2	2452	26.320	2434.480	2460.800	0.5	PASS
11N20MIMO	Ant1	2412	15.160	2404.440	2419.600	0.5	PASS
	Ant2	2412	15.040	2404.520	2419.560	0.5	PASS
	Ant1	2437	12.720	2430.640	2443.360	0.5	PASS
	Ant2	2437	14.480	2429.440	2443.920	0.5	PASS
	Ant1	2462	13.680	2454.640	2468.320	0.5	PASS
	Ant2	2462	17.600	2453.200	2470.800	0.5	PASS
11N40MIMO	Ant1	2422	34.320	2405.600	2439.920	0.5	PASS
	Ant2	2422	34.640	2405.600	2440.240	0.5	PASS
	Ant1	2437	34.000	2420.600	2454.600	0.5	PASS

	Ant2	2437	35.200	2419.400	2454.600	0.5	PASS
	Ant1	2452	32.720	2434.400	2467.120	0.5	PASS
	Ant2	2452	28.960	2434.400	2463.360	0.5	PASS

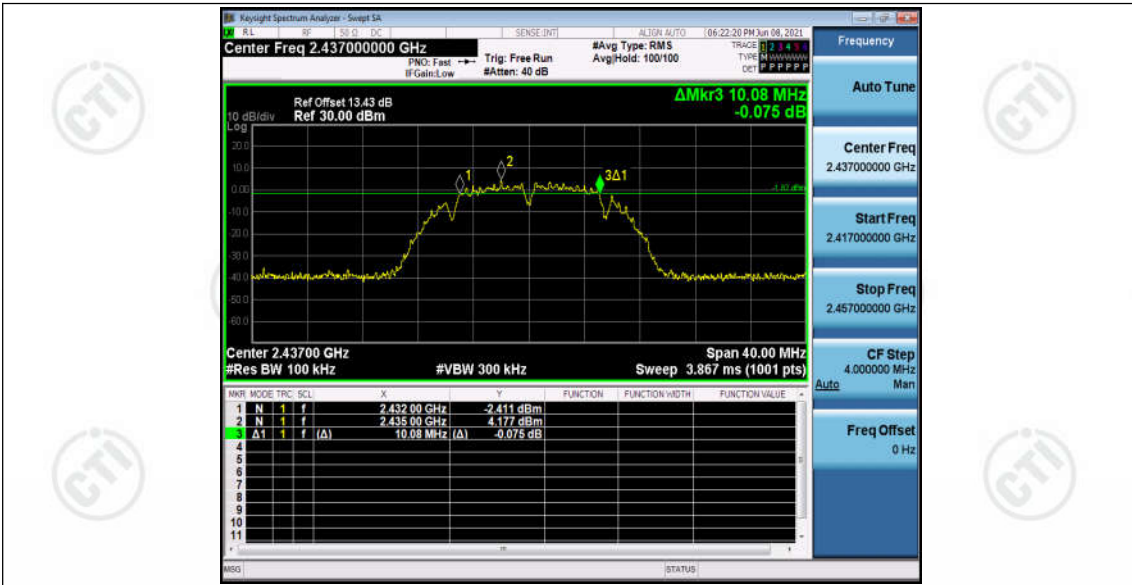
## Test Graphs



11B\_Ant1\_2412



11B\_Ant2\_2412



11B\_Ant1\_2437



11B\_Ant2\_2437



11B\_Ant1\_2462



11B\_Ant2\_2462



11G\_Ant1\_2412



11G\_Ant2\_2412

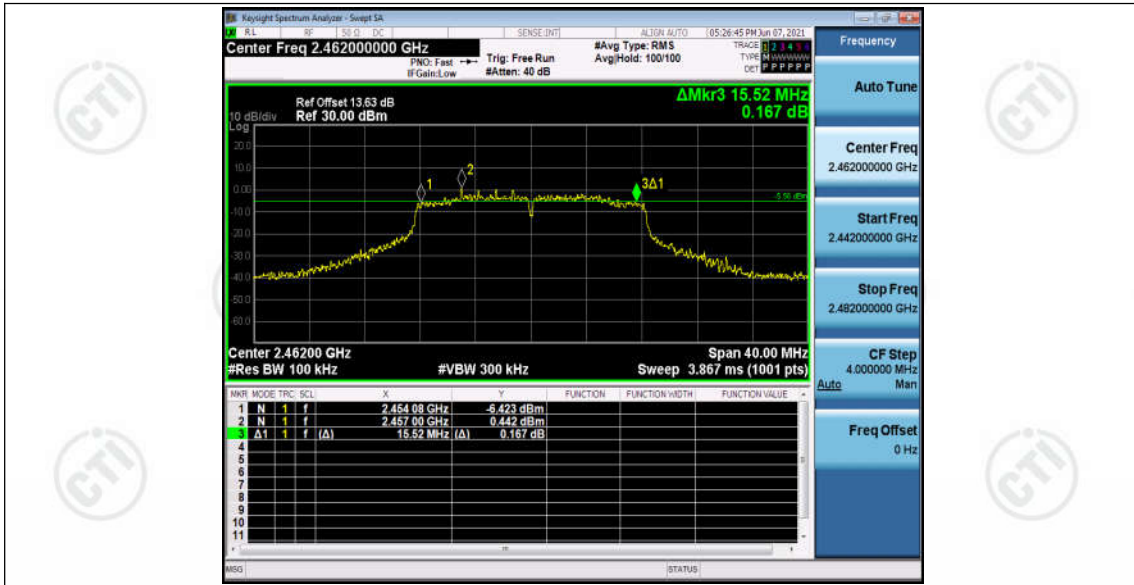




11G\_Ant1\_2437



11G\_Ant2\_2437



11G\_Ant1\_2462



11G\_Ant2\_2462



11N20SISO\_Ant1\_2412



11N20SISO\_Ant2\_2412



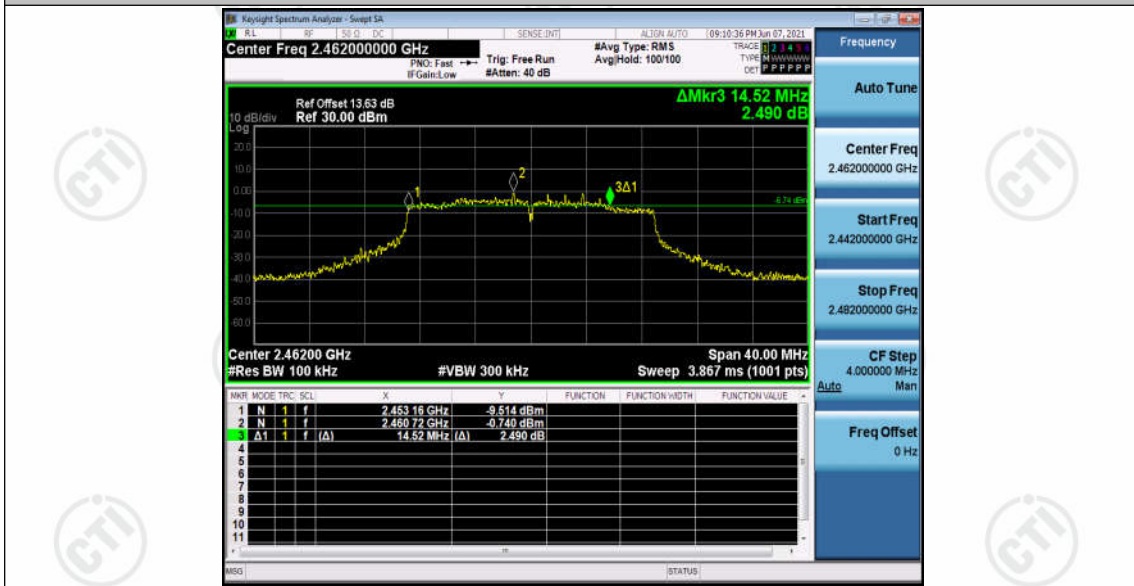
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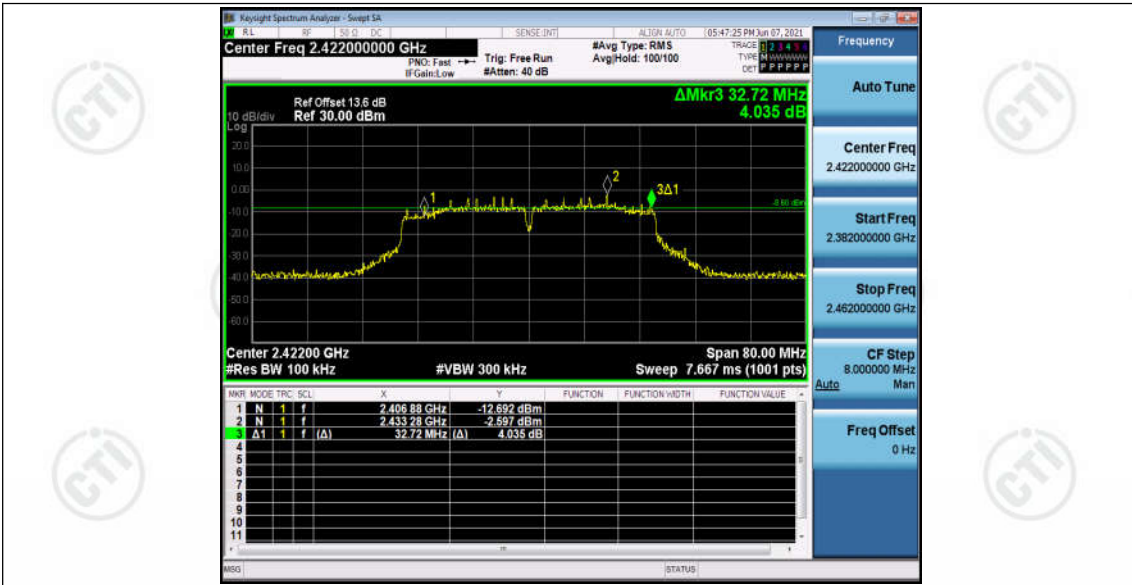
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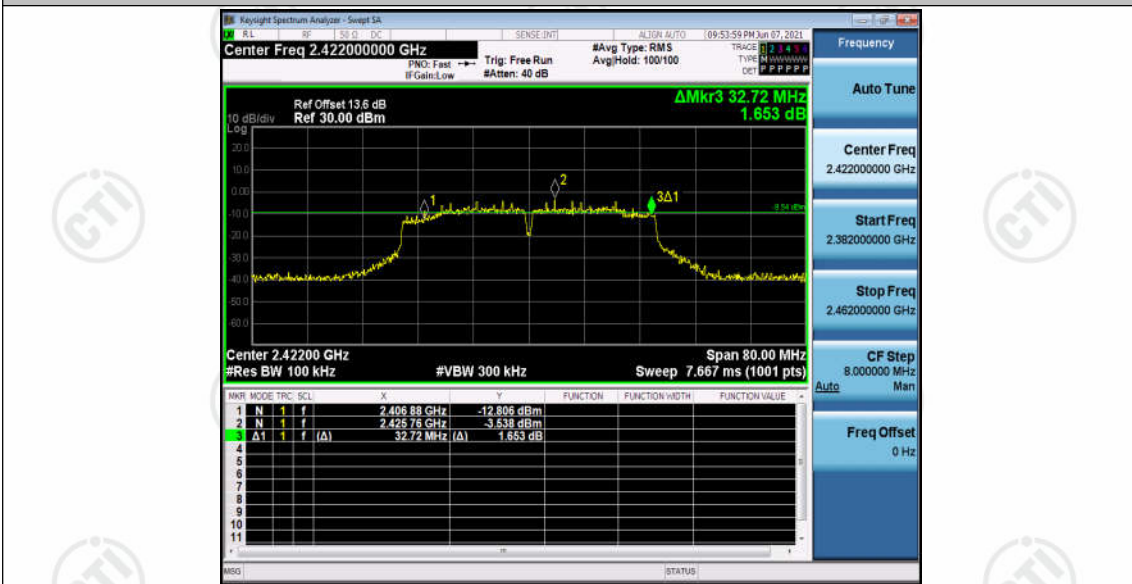
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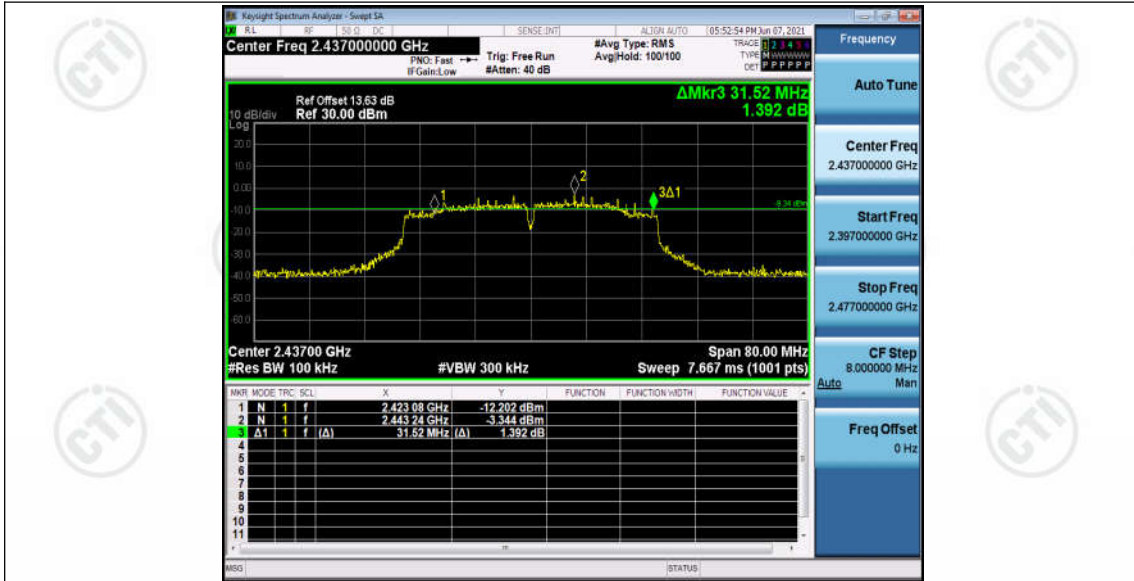
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11N40SISO\_Ant1\_2422



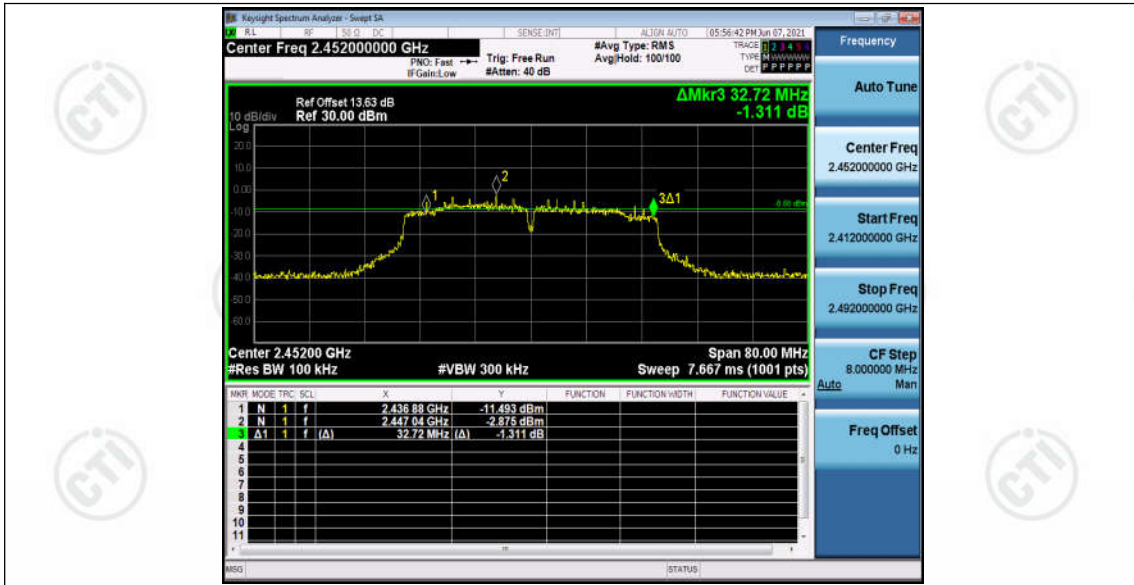
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11N40SISO\_Ant1\_2437



11N40SISO\_Ant2\_2437



11N40SISO\_Ant1\_2452



11N40SISO\_Ant2\_2452





11N20MIMO\_Ant1\_2412



11N20MIMO\_Ant2\_2412



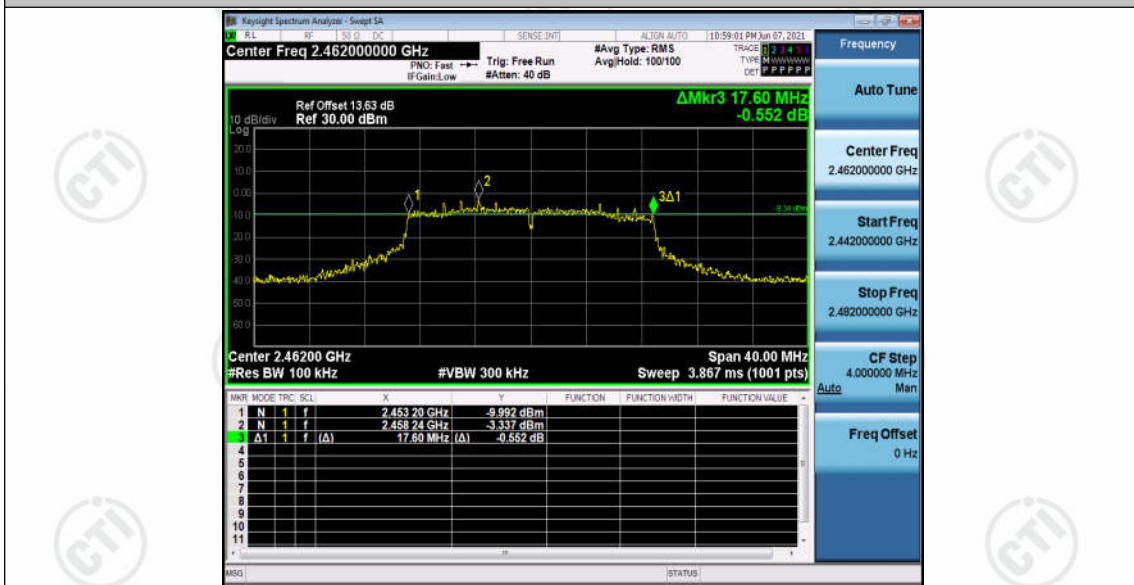
11N20MIMO\_Ant1\_2437



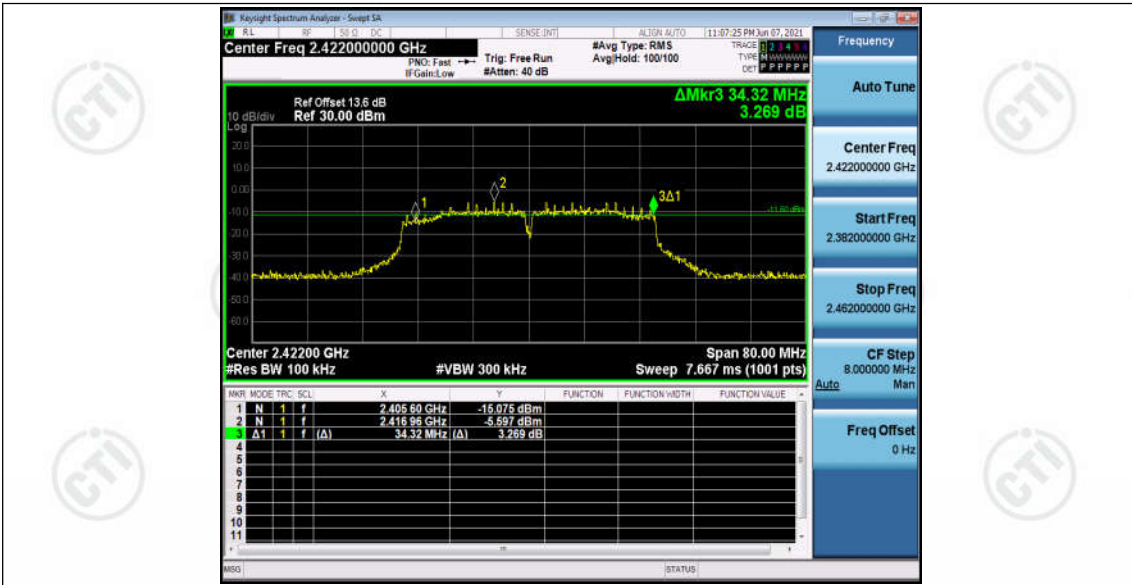
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11N20MIMO\_Ant1\_2462



11N20MIMO\_Ant2\_2462



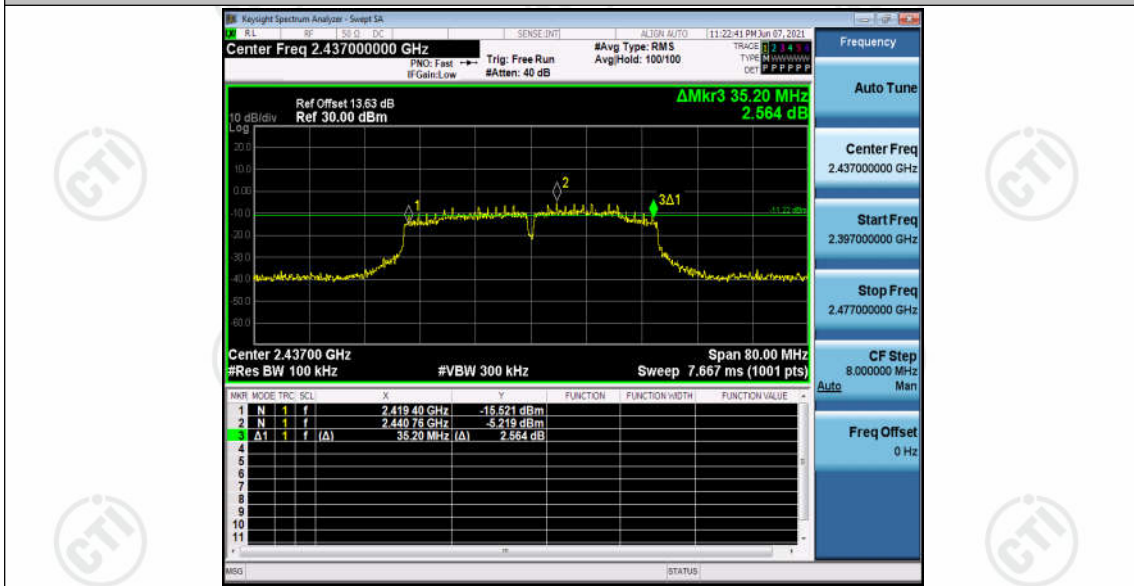
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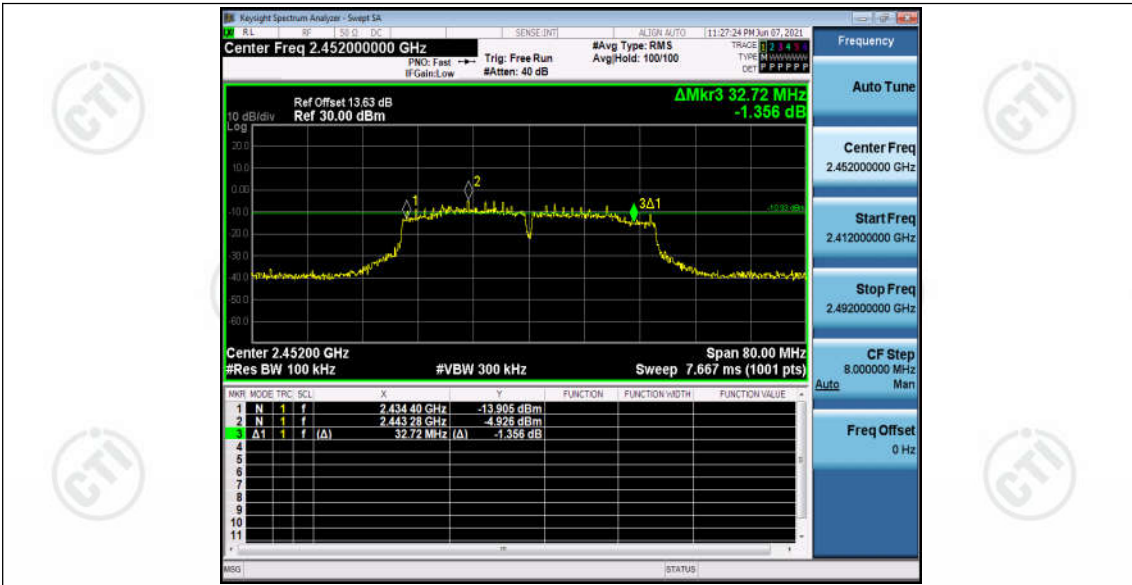
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11N40MIMO\_Ant1\_2437



11N40MIMO\_Ant2\_2437



11N40MIMO\_Ant1\_2452



11N40MIMO\_Ant2\_2452

## Appendix B: Occupied Channel Bandwidth

### Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.633	2405.275	2418.908	---	PASS
	Ant2	2412	13.579	2405.376	2418.955	---	PASS
	Ant1	2437	13.637	2430.271	2443.908	---	PASS
	Ant2	2437	13.673	2430.290	2443.963	---	PASS
	Ant1	2462	13.844	2455.016	2468.860	---	PASS
	Ant2	2462	13.767	2454.963	2468.730	---	PASS
11G	Ant1	2412	16.742	2403.711	2420.453	---	PASS
	Ant2	2412	16.710	2403.792	2420.502	---	PASS
	Ant1	2437	16.734	2428.695	2445.429	---	PASS
	Ant2	2437	16.855	2428.690	2445.545	---	PASS
	Ant1	2462	16.904	2453.534	2470.438	---	PASS
	Ant2	2462	17.003	2453.384	2470.387	---	PASS
11N20SISO	Ant1	2412	17.865	2403.156	2421.021	---	PASS
	Ant2	2412	17.781	2403.237	2421.018	---	PASS
	Ant1	2437	17.907	2428.116	2446.023	---	PASS
	Ant2	2437	17.913	2428.137	2446.050	---	PASS
	Ant1	2462	18.082	2452.886	2470.968	---	PASS
	Ant2	2462	18.044	2452.872	2470.916	---	PASS
11N40SISO	Ant1	2422	36.305	2404.136	2440.441	---	PASS
	Ant2	2422	36.109	2404.186	2440.295	---	PASS
	Ant1	2437	36.017	2419.024	2455.041	---	PASS
	Ant2	2437	36.077	2419.015	2455.092	---	PASS
	Ant1	2452	36.149	2433.877	2470.026	---	PASS
	Ant2	2452	36.074	2433.860	2469.934	---	PASS

## Test Graphs

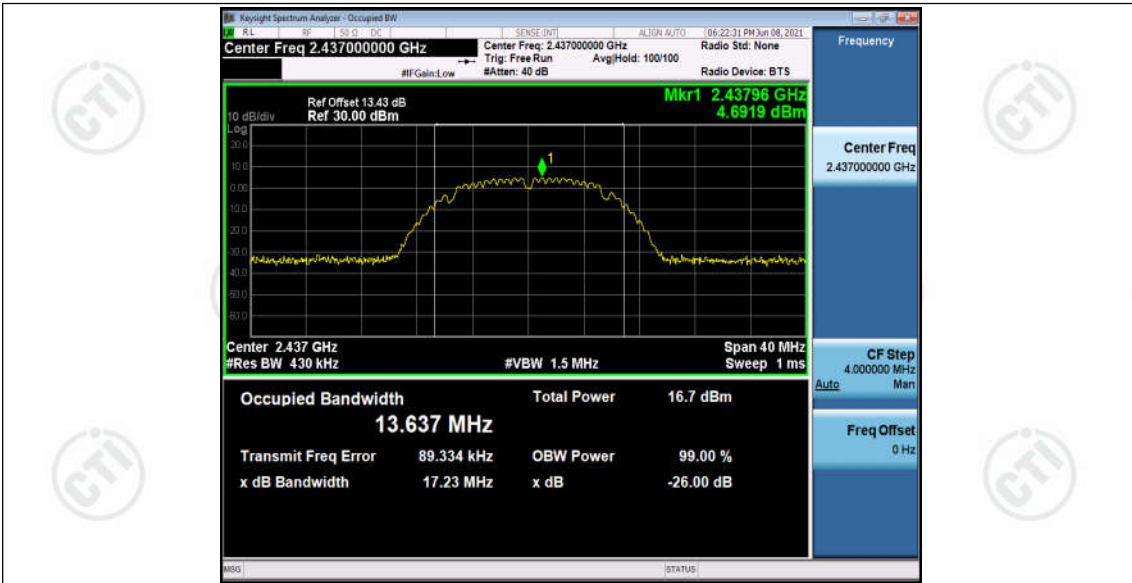


11B\_Ant1\_2412

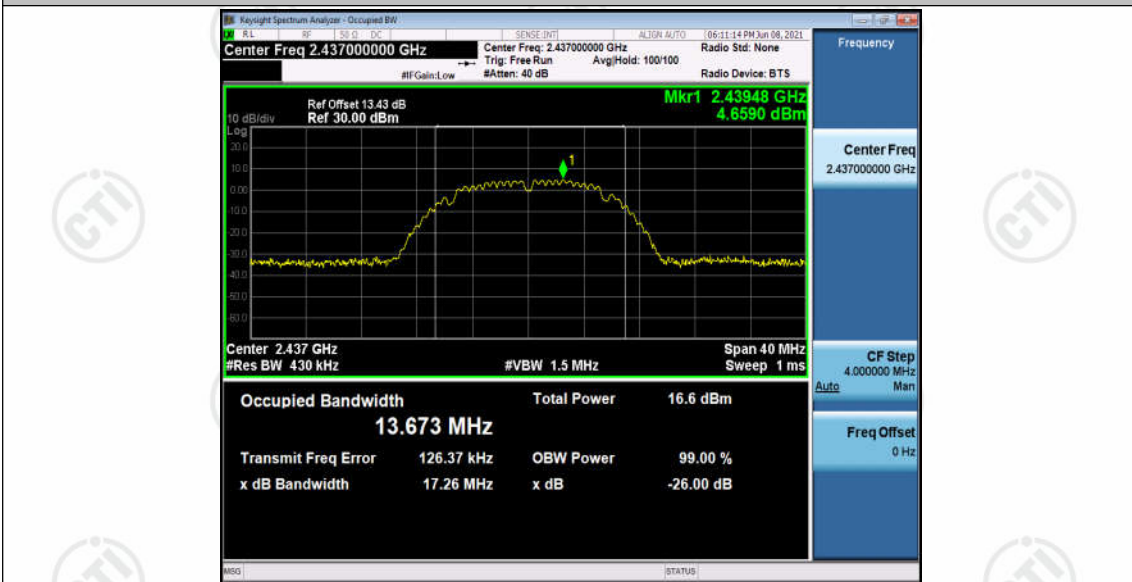


11B\_Ant2\_2412





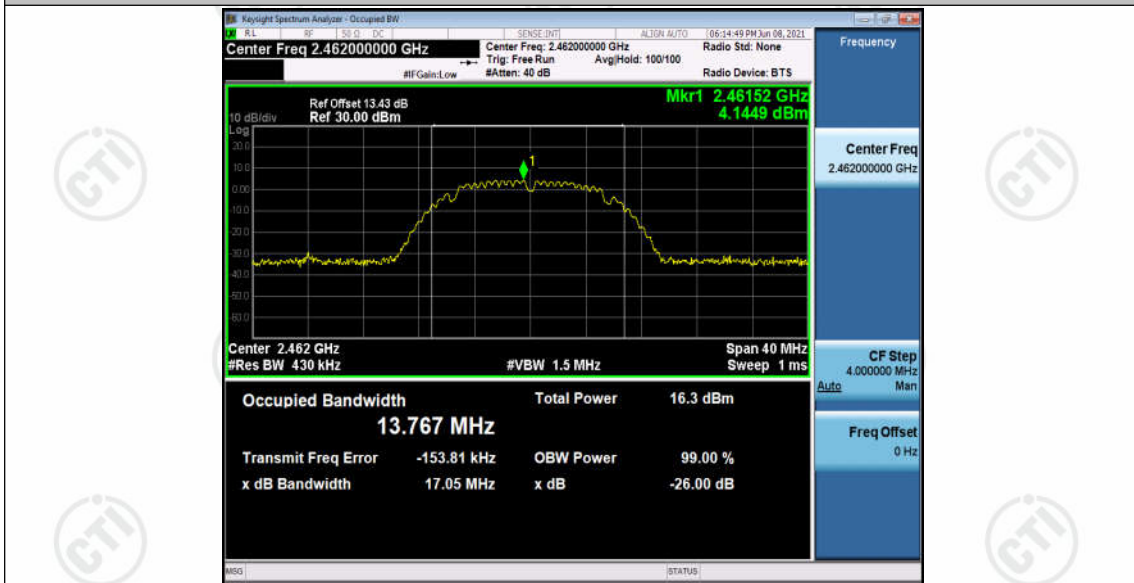
11B\_Ant1\_2437



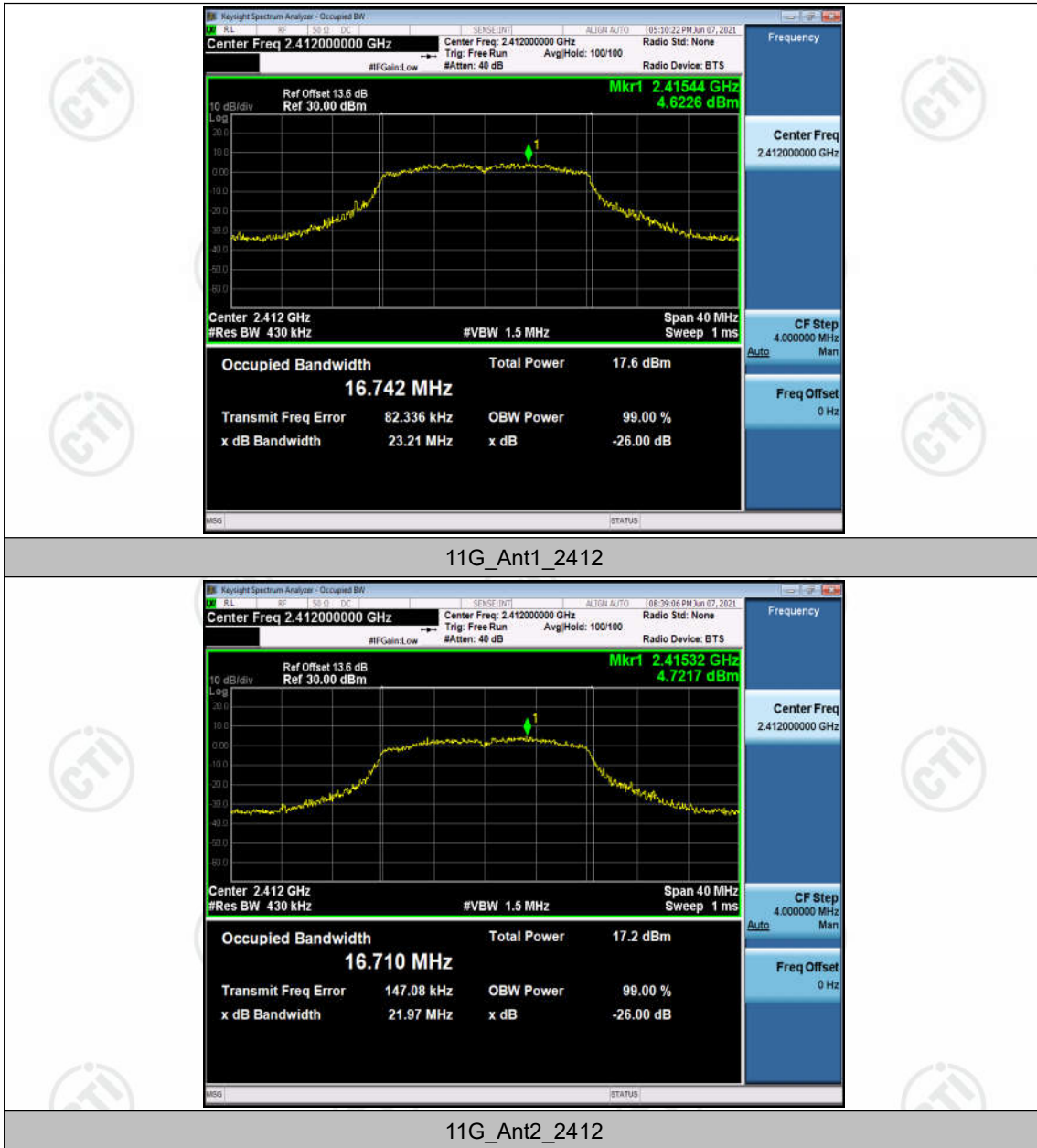
11B\_Ant2\_2437



11B\_Ant1\_2462



11B\_Ant2\_2462





11G\_Ant1\_2437



11G\_Ant2\_2437



11G\_Ant1\_2462



11G\_Ant2\_2462



11N20SISO\_Ant1\_2412



11N20SISO\_Ant2\_2412



11N20SISO\_Ant1\_2437



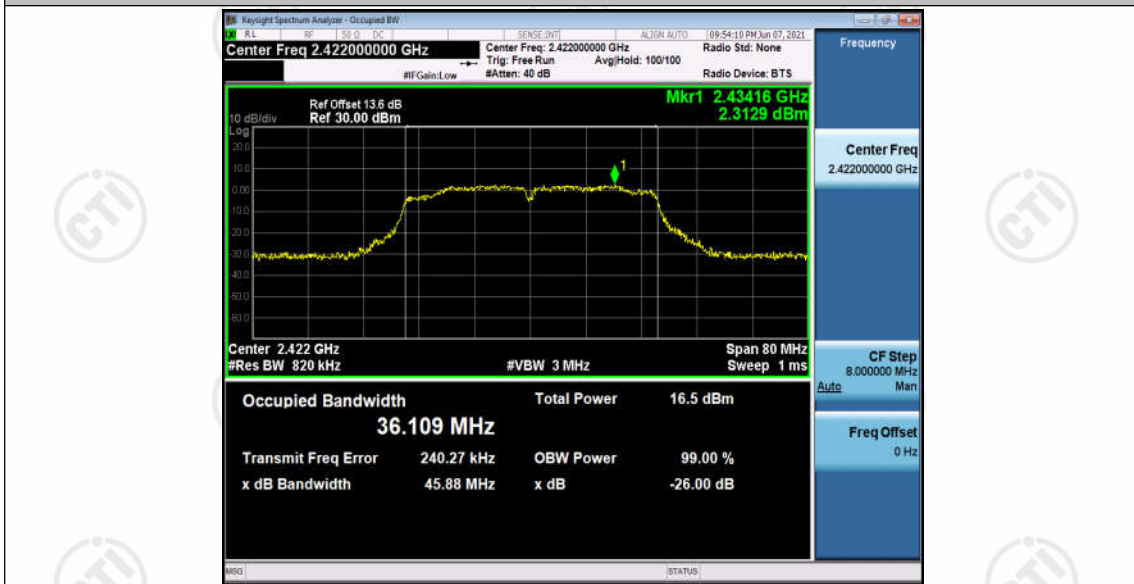
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11N40SISO\_Ant1\_2422



11N40SISO\_Ant2\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant2\_2437



11N40SISO\_Ant1\_2452



11N40SISO\_Ant2\_2452

## Appendix C: Maximum conducted output power

### Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	13.92	<=30	PASS
	Ant2	2412	13.63	<=30	PASS
	Ant1	2437	13.76	<=30	PASS
	Ant2	2437	13.64	<=30	PASS
	Ant1	2462	13.74	<=30	PASS
	Ant2	2462	13.30	<=30	PASS
11G	Ant1	2412	11.45	<=30	PASS
	Ant2	2412	11.22	<=30	PASS
	Ant1	2437	11.16	<=30	PASS
	Ant2	2437	11.27	<=30	PASS
	Ant1	2462	11.30	<=30	PASS
	Ant2	2462	10.99	<=30	PASS
11N20SISO	Ant1	2412	10.28	<=30	PASS
	Ant2	2412	10.05	<=30	PASS
	Ant1	2437	10.05	<=30	PASS
	Ant2	2437	10.16	<=30	PASS
	Ant1	2462	10.24	<=30	PASS
	Ant2	2462	10.04	<=30	PASS
11N40SISO	Ant1	2422	10.05	<=30	PASS
	Ant2	2422	9.60	<=30	PASS
	Ant1	2437	9.64	<=30	PASS
	Ant2	2437	9.09	<=30	PASS
	Ant1	2452	9.67	<=30	PASS
	Ant2	2452	9.28	<=30	PASS
11N20MIMO	Ant1	2412	7.53	<=30	PASS
	Ant2	2412	7.10	<=30	PASS
	total	2412	10.3	<=30	PASS
	Ant1	2437	7.19	<=30	PASS
	Ant2	2437	7.20	<=30	PASS
	total	2437	10.2	<=30	PASS
	Ant1	2462	7.39	<=30	PASS
	Ant2	2462	7.05	<=30	PASS
	total	2462	10.2	<=30	PASS

11N40MIMO	Ant1	2422	7.74	<=30	PASS
	Ant2	2422	7.47	<=30	PASS
	total	2422	10.6	<=30	PASS
	Ant1	2437	7.38	<=30	PASS
	Ant2	2437	7.10	<=30	PASS
	total	2437	10.3	<=30	PASS
	Ant1	2452	7.43	<=30	PASS
	Ant2	2452	7.15	<=30	PASS
	total	2452	10.3	<=30	PASS

## Appendix D: Maximum power spectral density

### Test Result

Test Mode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-13.14	<=8	PASS
	Ant2	2412	-13.45	<=8	PASS
	Ant1	2437	-12.94	<=8	PASS
	Ant2	2437	-13.58	<=8	PASS
	Ant1	2462	-13.47	<=8	PASS
	Ant2	2462	-13.56	<=8	PASS
11G	Ant1	2412	-16.36	<=8	PASS
	Ant2	2412	-16.8	<=8	PASS
	Ant1	2437	-16.76	<=8	PASS
	Ant2	2437	-16.85	<=8	PASS
	Ant1	2462	-16.77	<=8	PASS
	Ant2	2462	-16.9	<=8	PASS
11N20SISO	Ant1	2412	-17.99	<=8	PASS
	Ant2	2412	-18.06	<=8	PASS
	Ant1	2437	-17.84	<=8	PASS
	Ant2	2437	-18.11	<=8	PASS
	Ant1	2462	-18.39	<=8	PASS
	Ant2	2462	-18.27	<=8	PASS
11N40SISO	Ant1	2422	-20.48	<=8	PASS
	Ant2	2422	-20.9	<=8	PASS
	Ant1	2437	-20.95	<=8	PASS
	Ant2	2437	-21.36	<=8	PASS
	Ant1	2452	-20.53	<=8	PASS
	Ant2	2452	-20.54	<=8	PASS
11N20MIMO	Ant1	2412	-20.5	<=8	PASS
	Ant2	2412	-20.47	<=8	PASS
	total	2412	-17.47	<=8	PASS
	Ant1	2437	-20.63	<=8	PASS
	Ant2	2437	-20.53	<=8	PASS
	total	2437	-17.57	<=8	PASS
	Ant1	2462	-20.75	<=8	PASS
	Ant2	2462	-19.91	<=8	PASS
	total	2462	-17.30	<=8	PASS

11N40MIMO	Ant1	2422	-23	$\leq 8$	PASS
	Ant2	2422	-22.35	$\leq 8$	PASS
	total	2422	-19.65	$\leq 8$	PASS
	Ant1	2437	-22.19	$\leq 8$	PASS
	Ant2	2437	-21.83	$\leq 8$	PASS
	total	2437	-19.00	$\leq 8$	PASS
	Ant1	2452	-22.22	$\leq 8$	PASS
	Ant2	2452	-22.95	$\leq 8$	PASS
	total	2452	-19.56	$\leq 8$	PASS

## Test Graphs



11B\_Ant1\_2412



11B\_Ant2\_2412

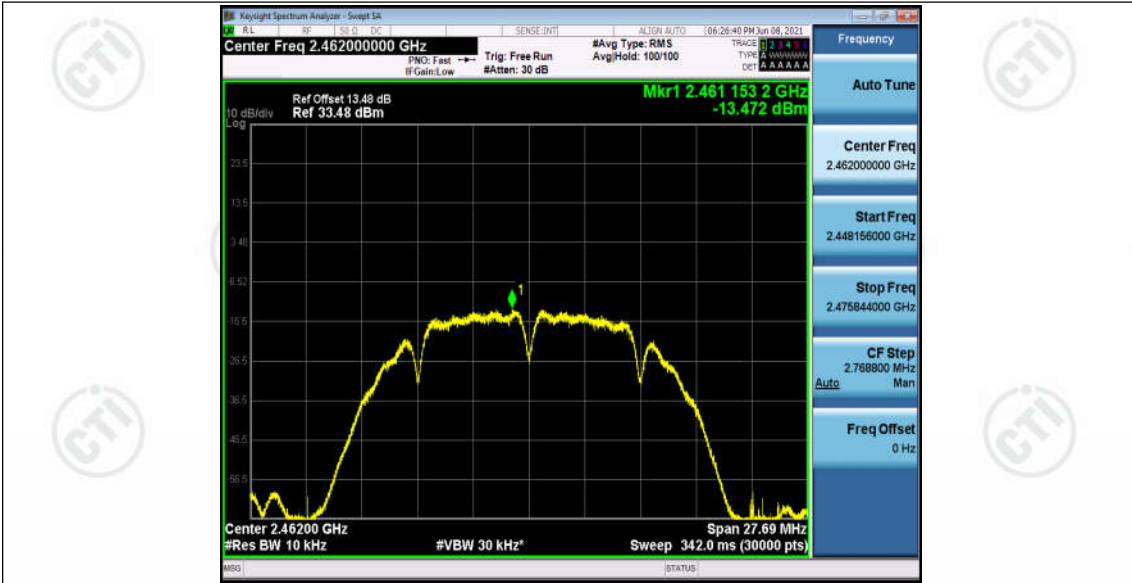




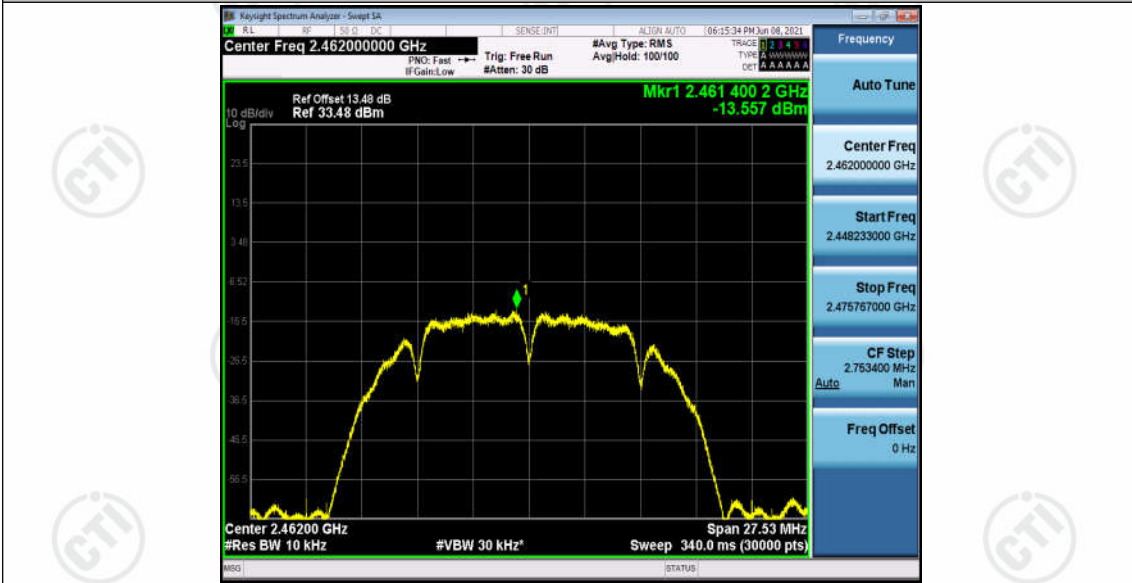
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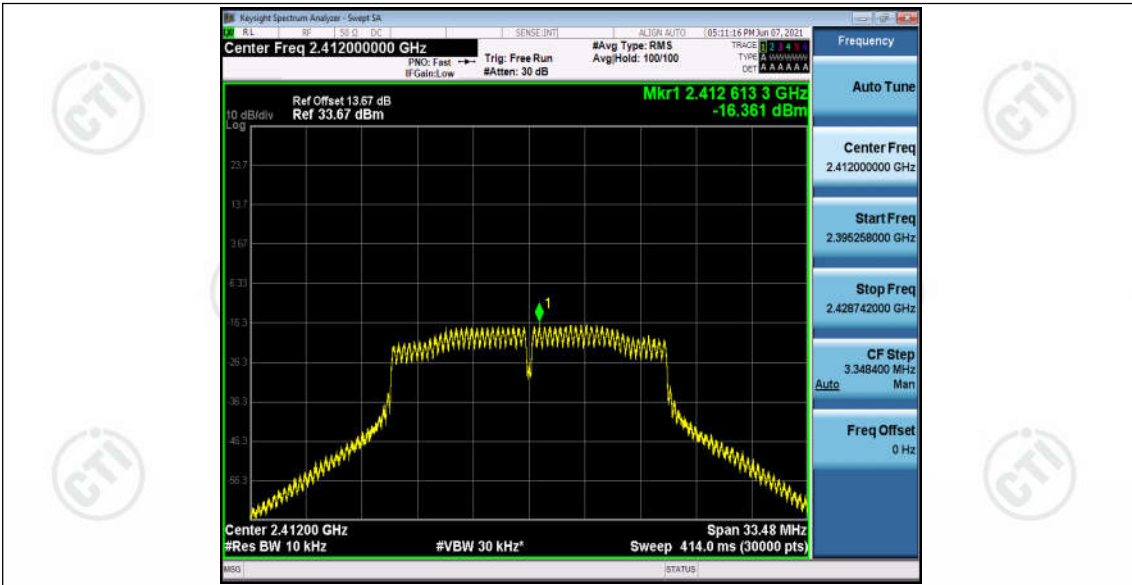
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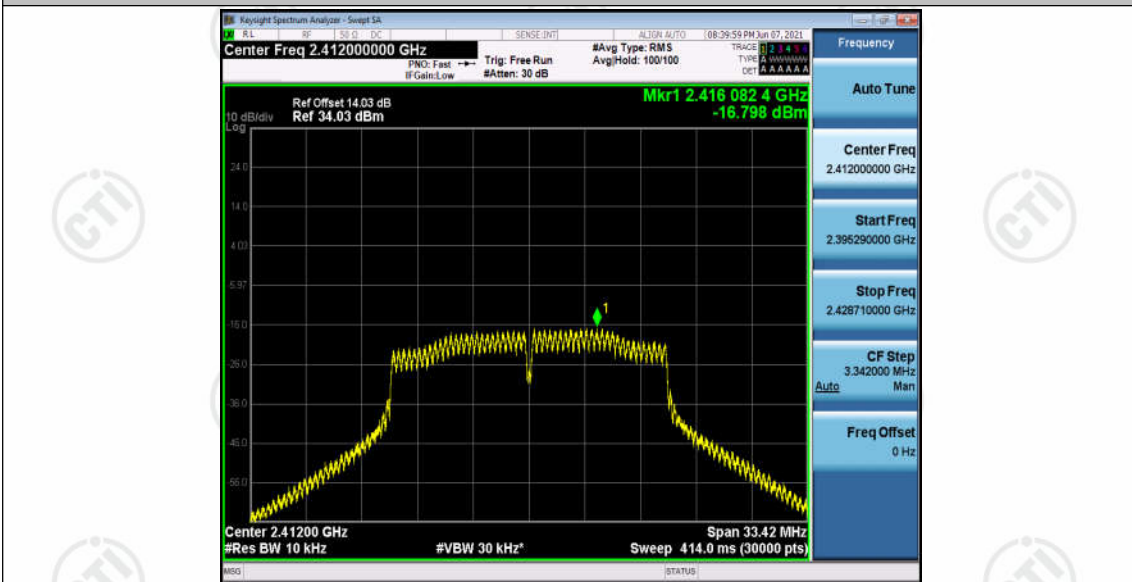
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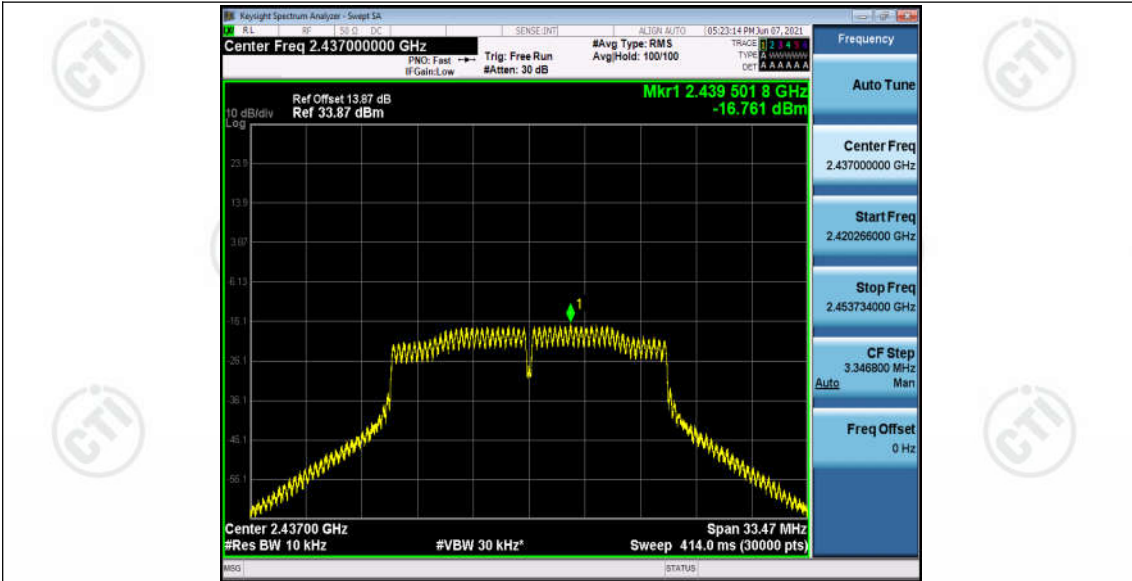
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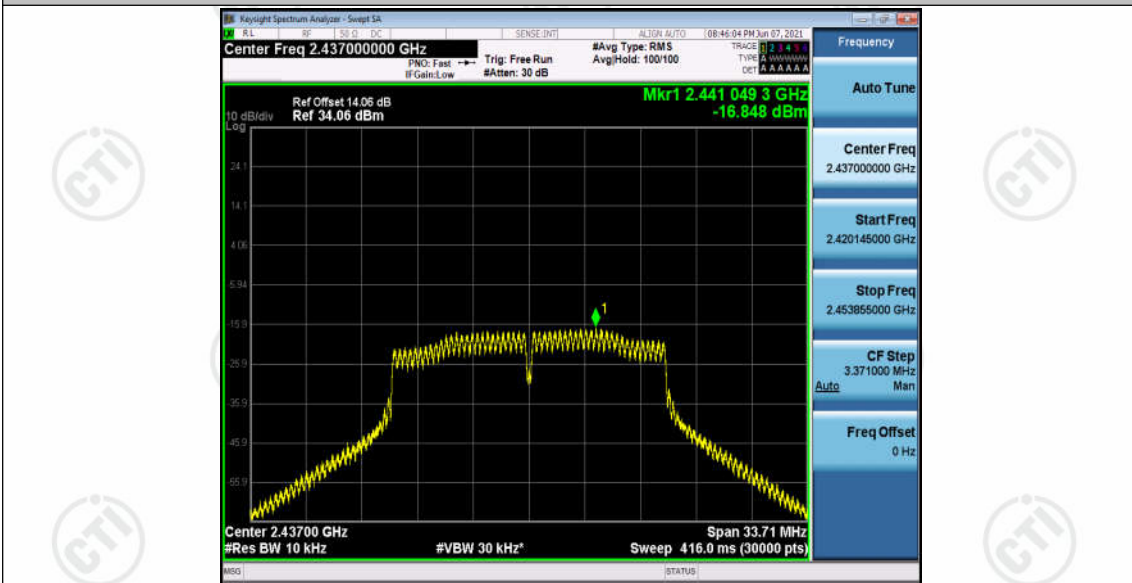
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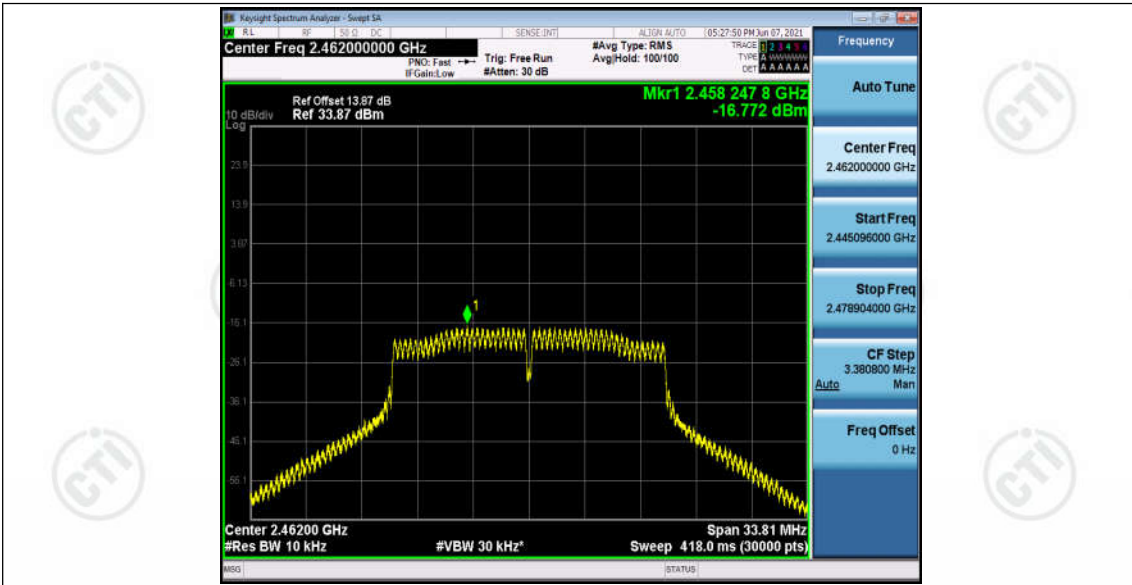
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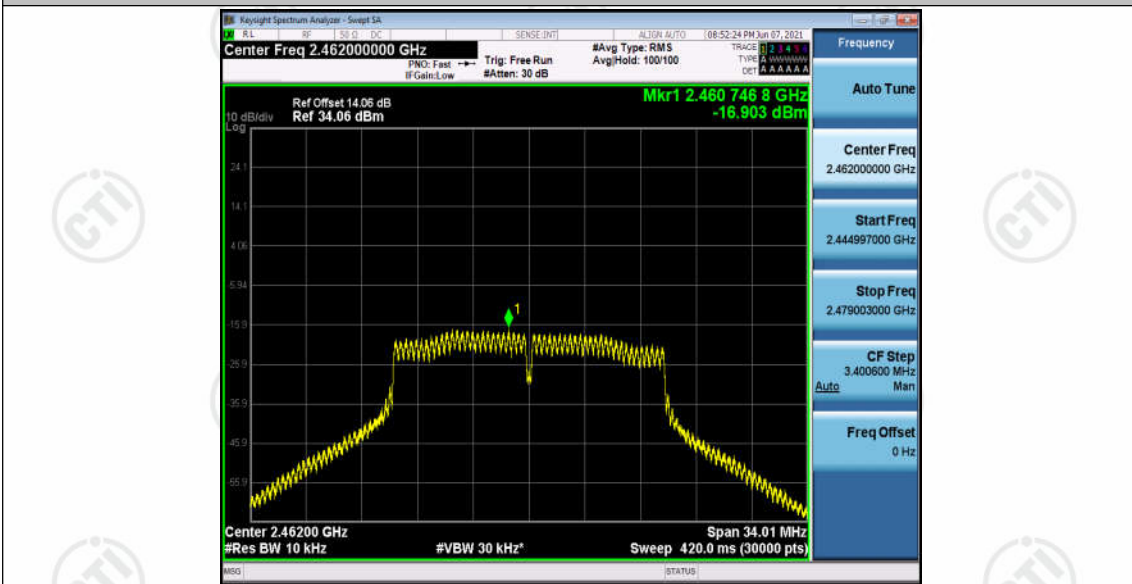
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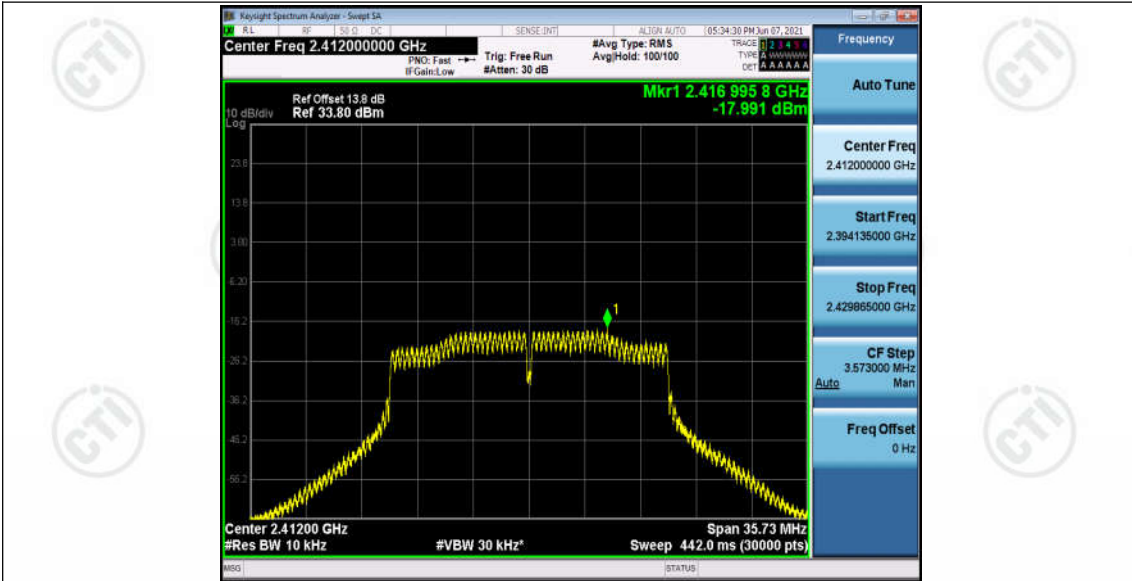
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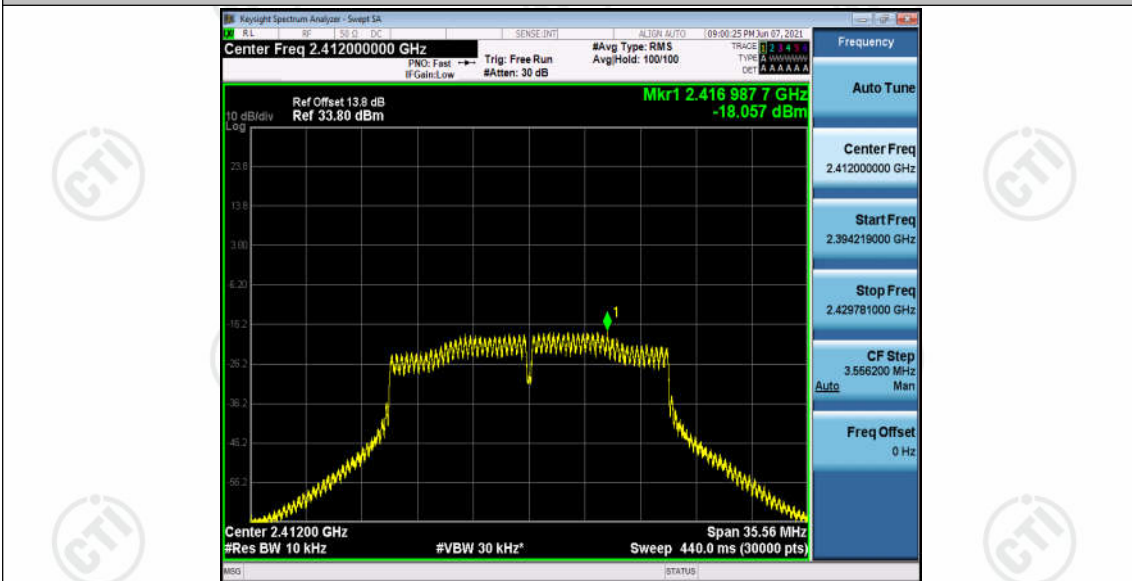
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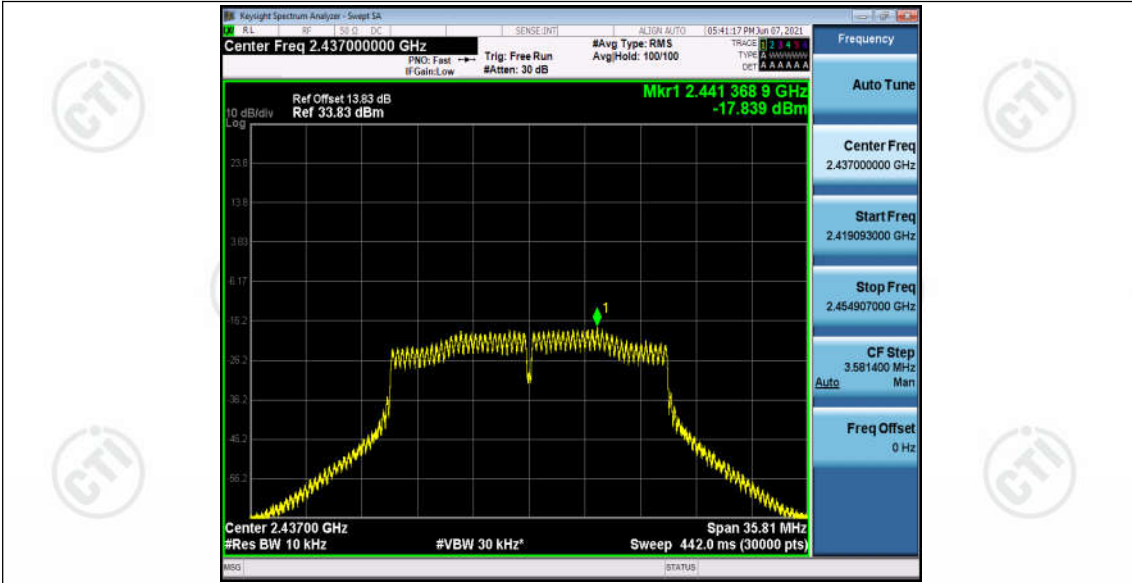
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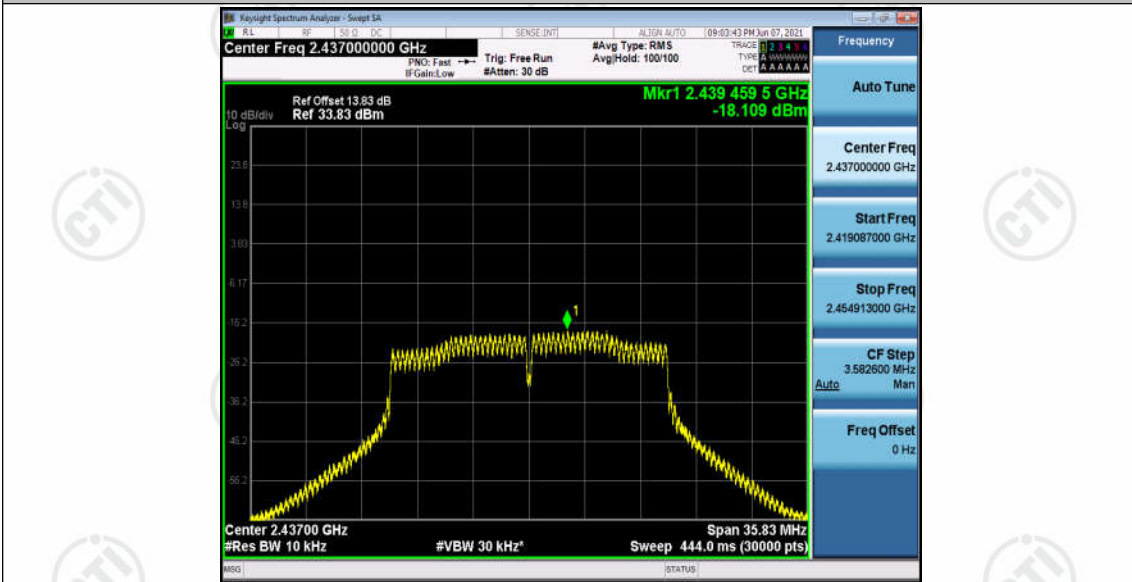
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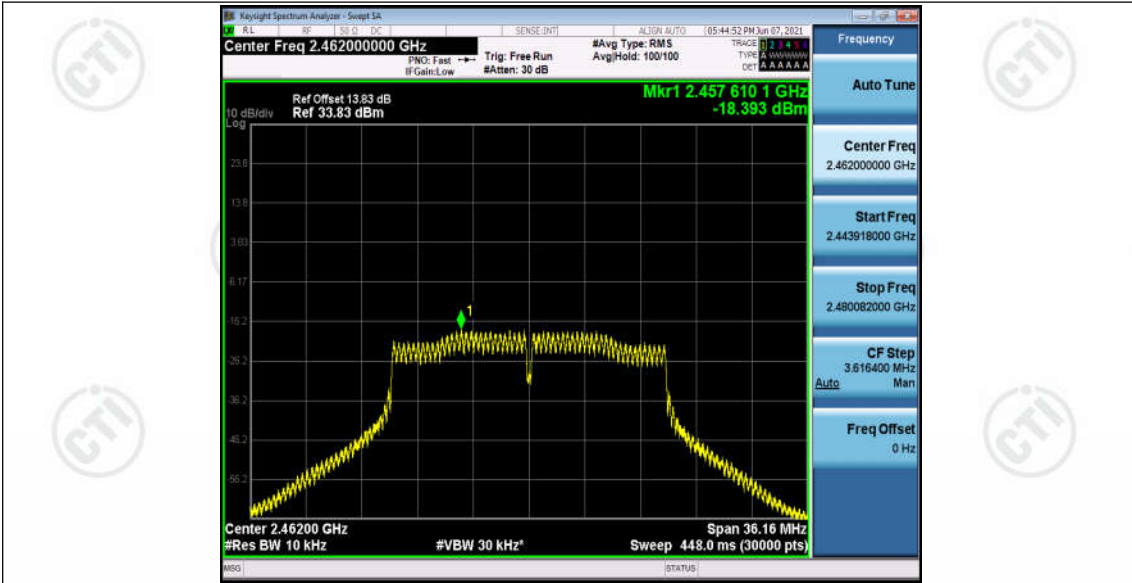
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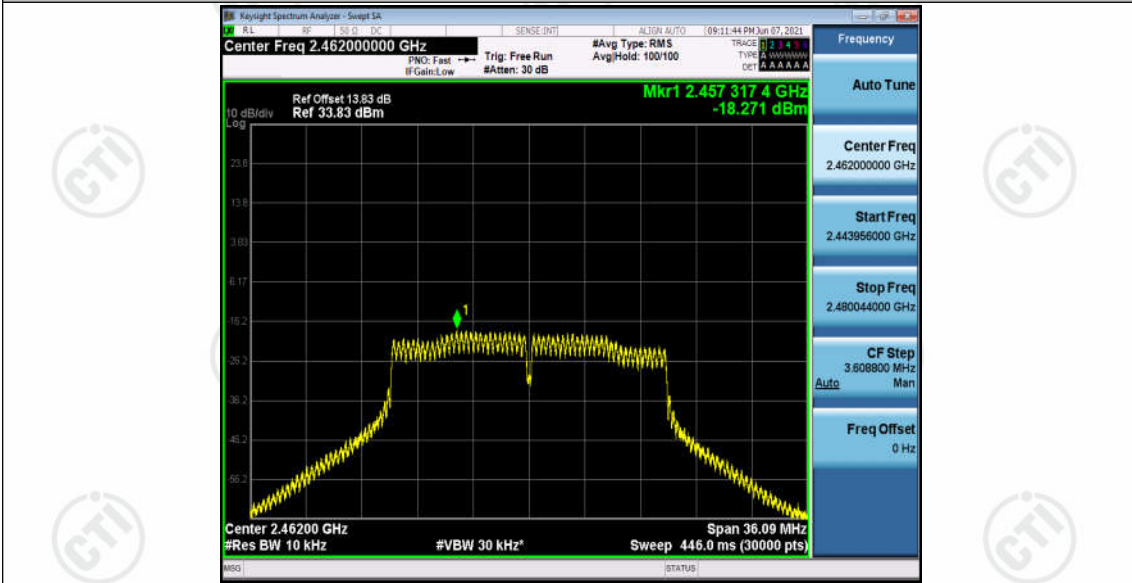
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11N20SISO\_Ant2\_2437

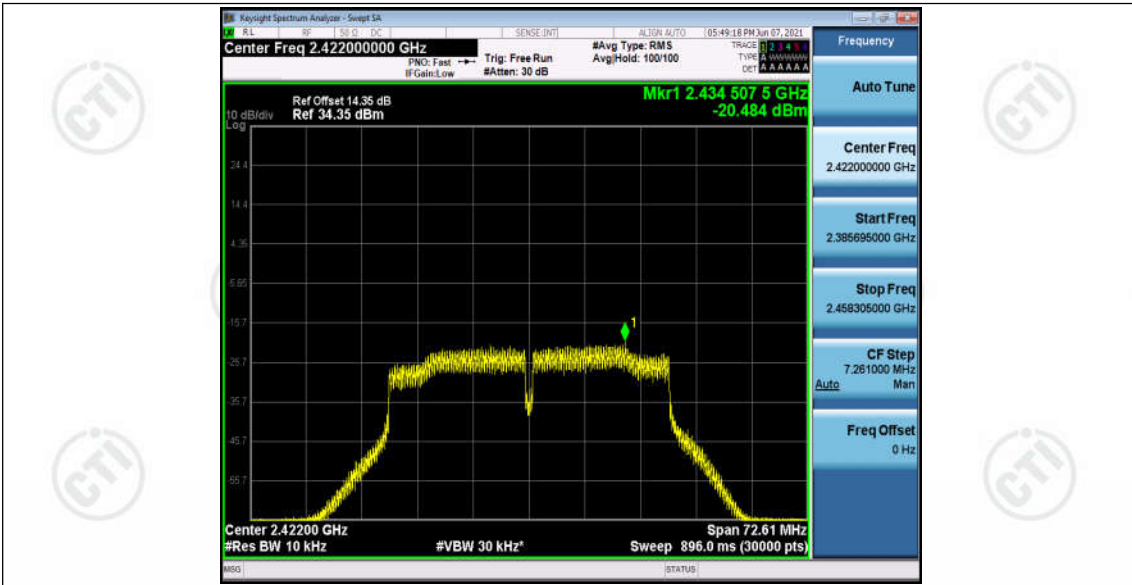


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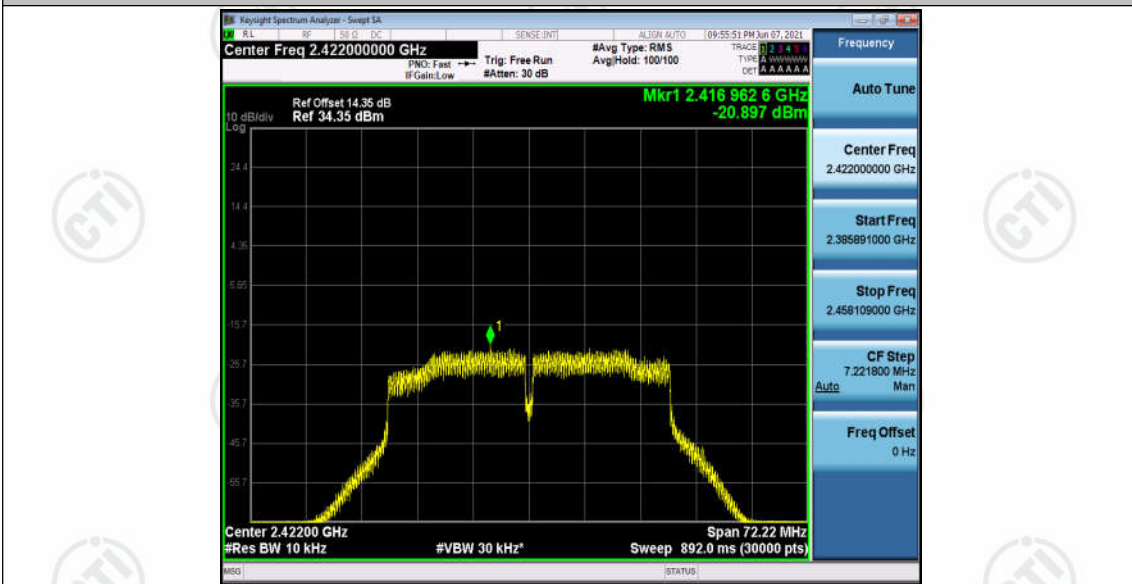


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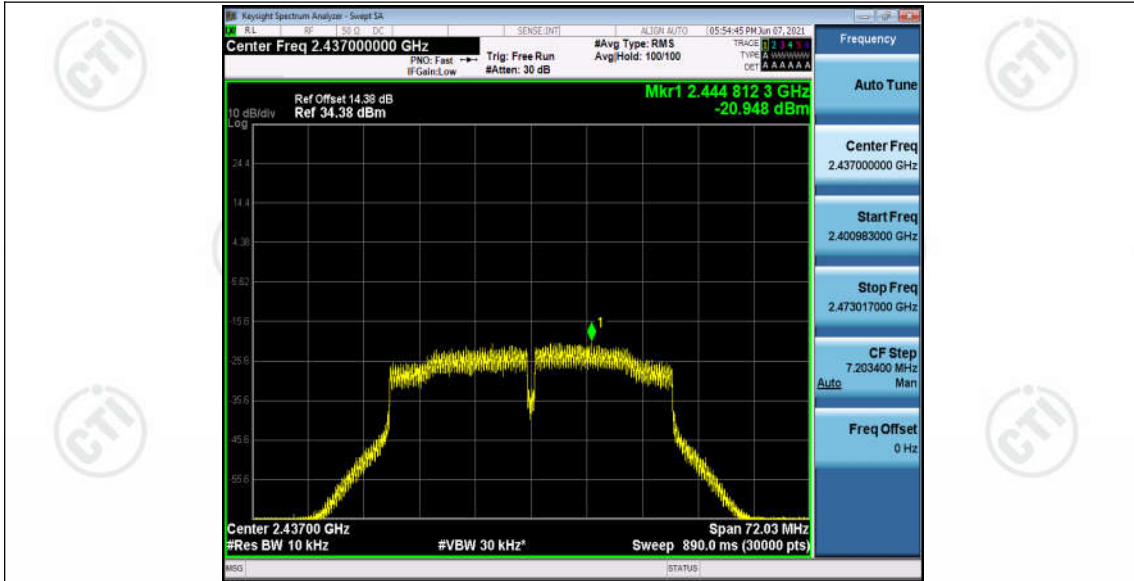




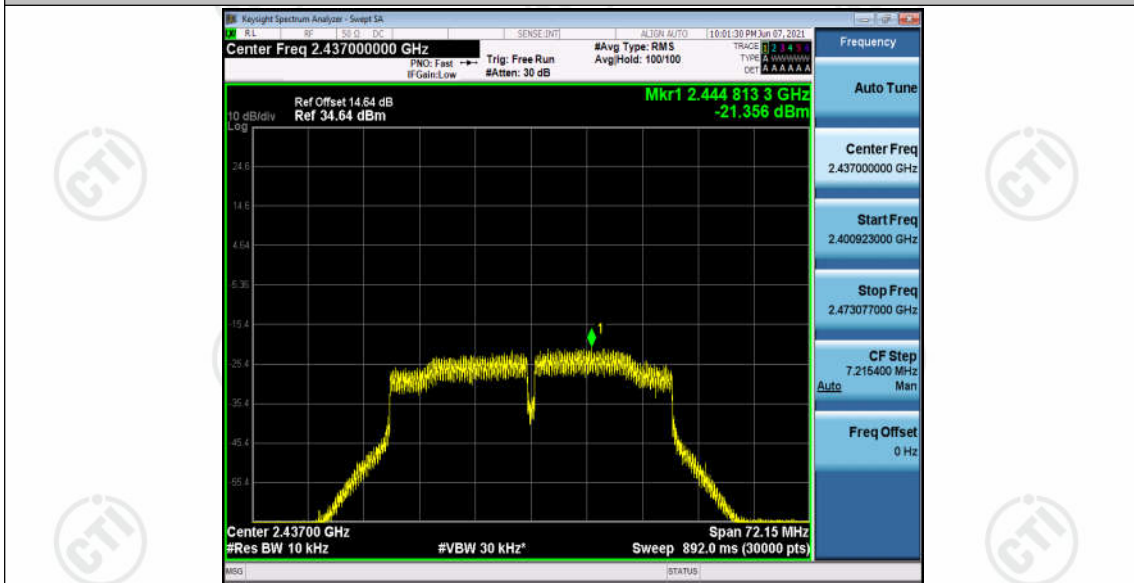
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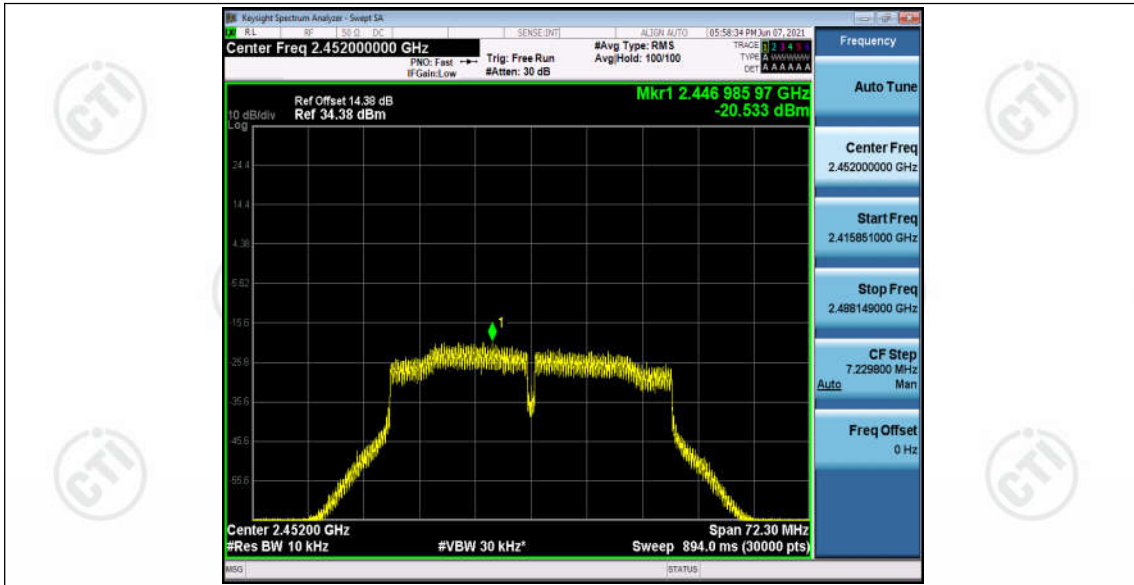
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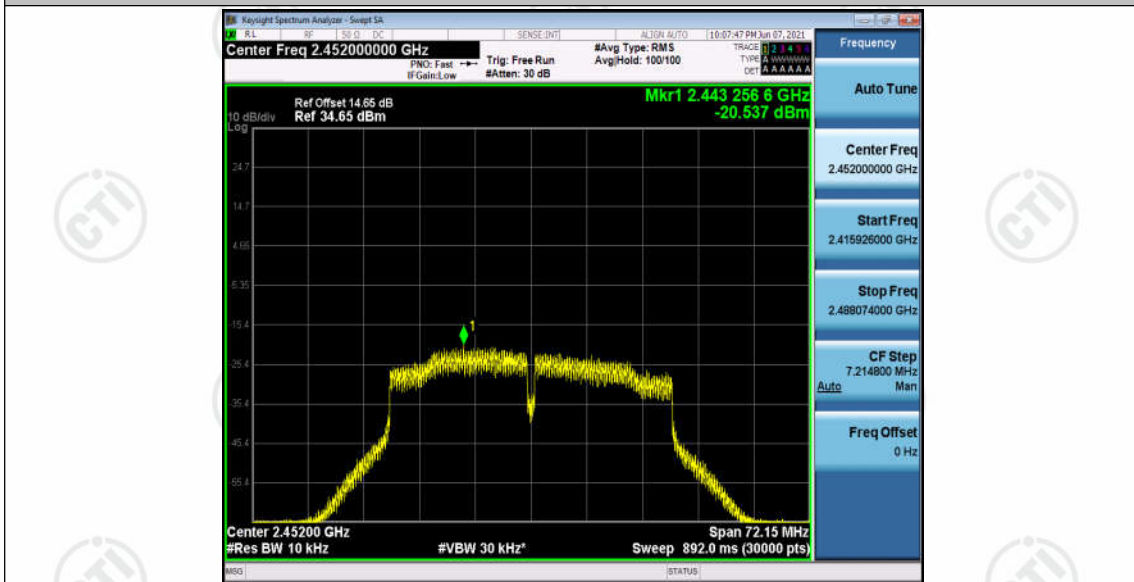
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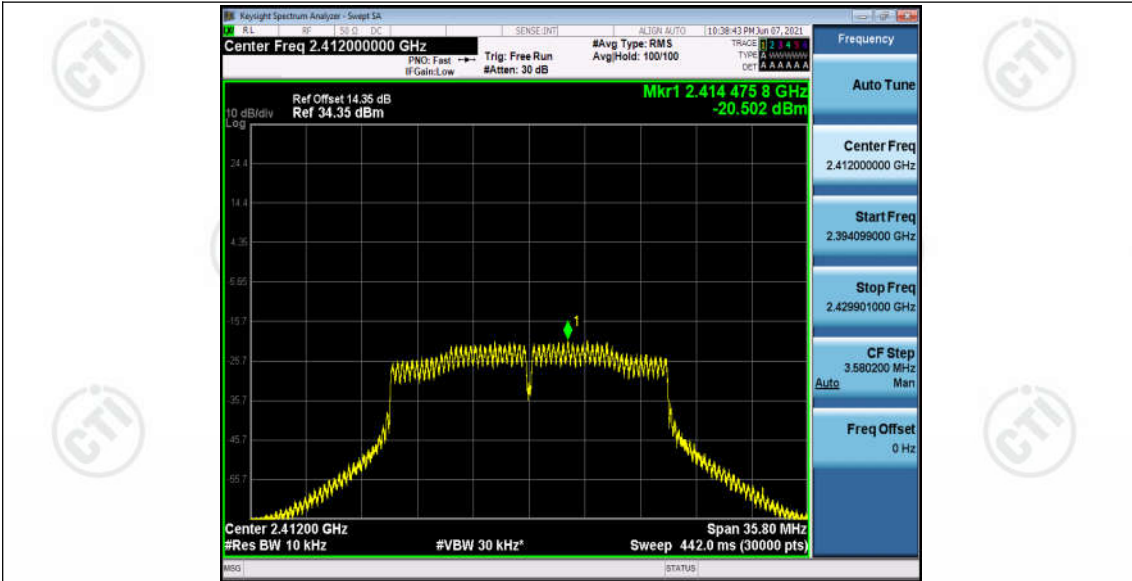
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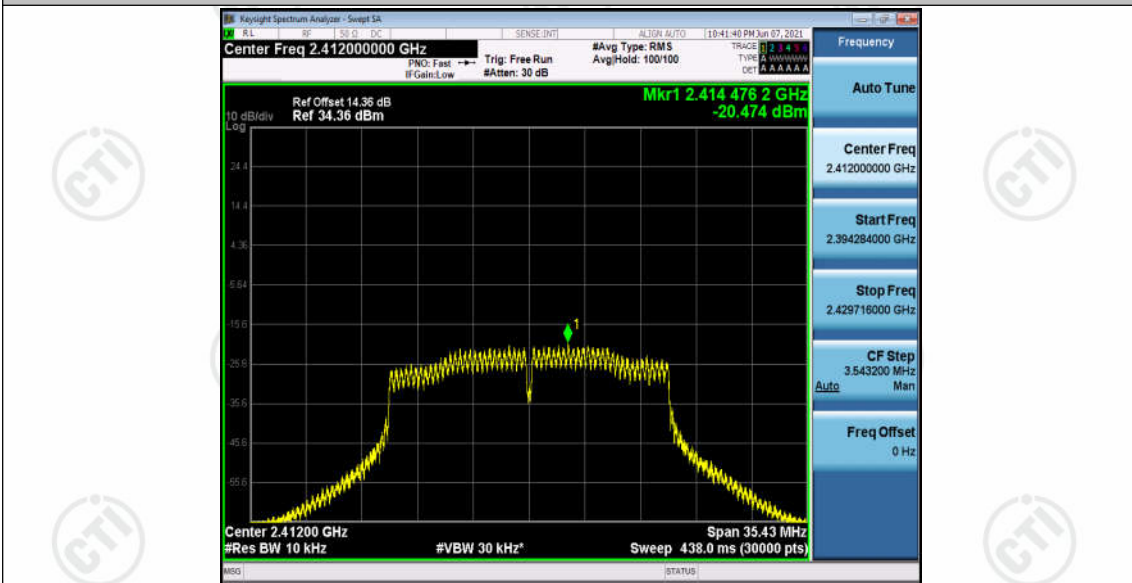
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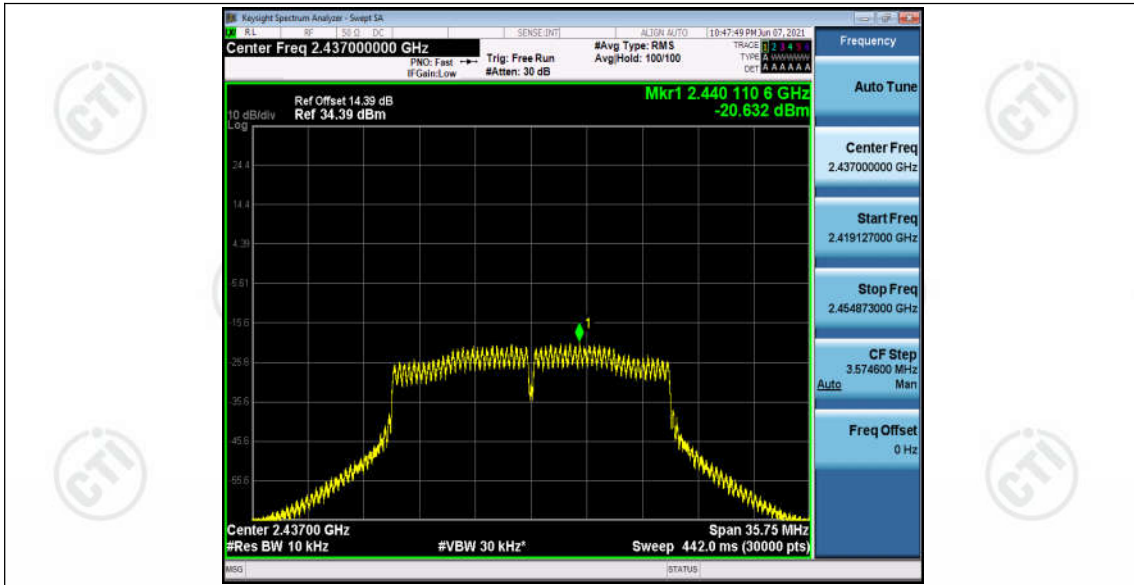
11N40SISO\_Ant2\_2452



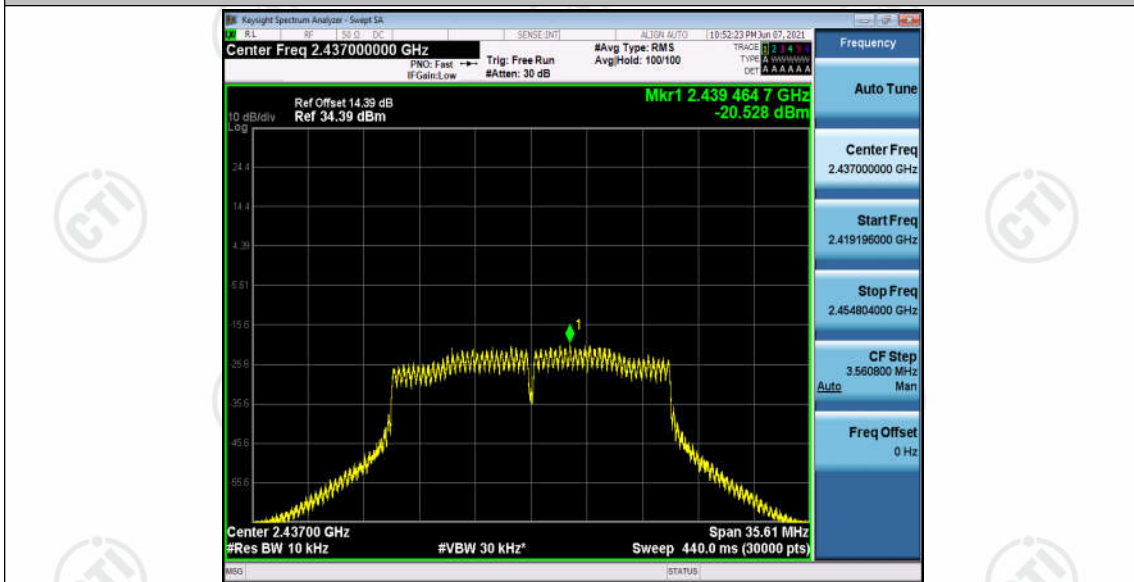
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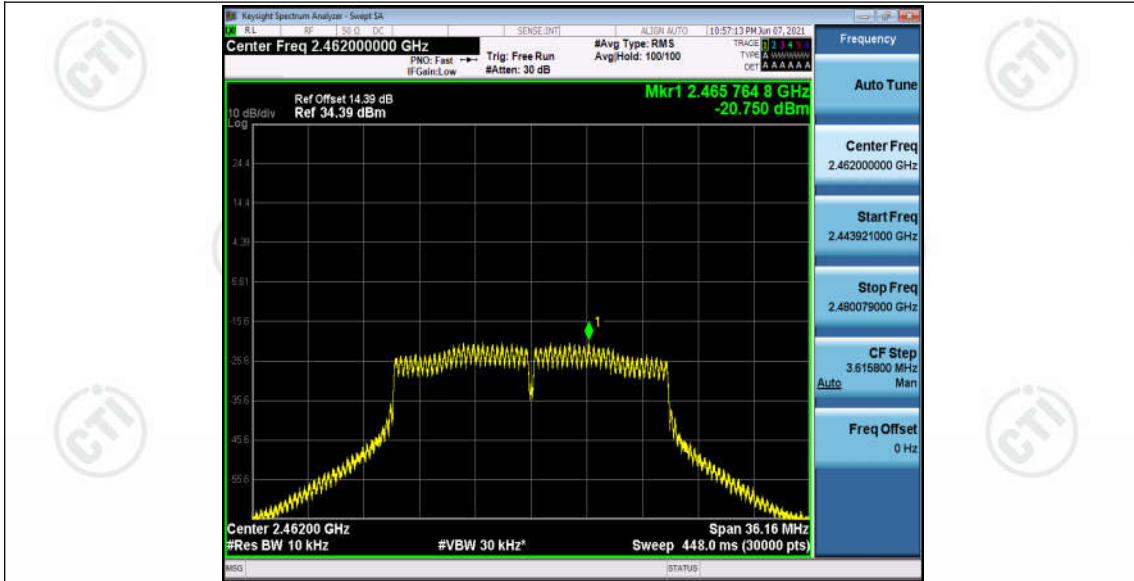
11N20MIMO\_Ant2\_2412



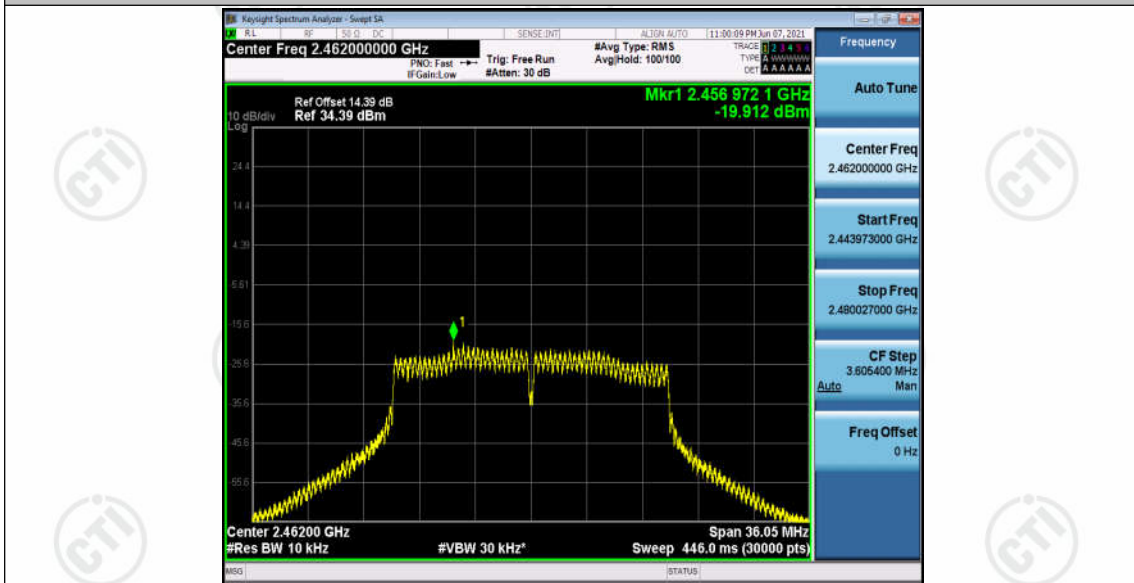
11N20MIMO\_Ant1\_2437



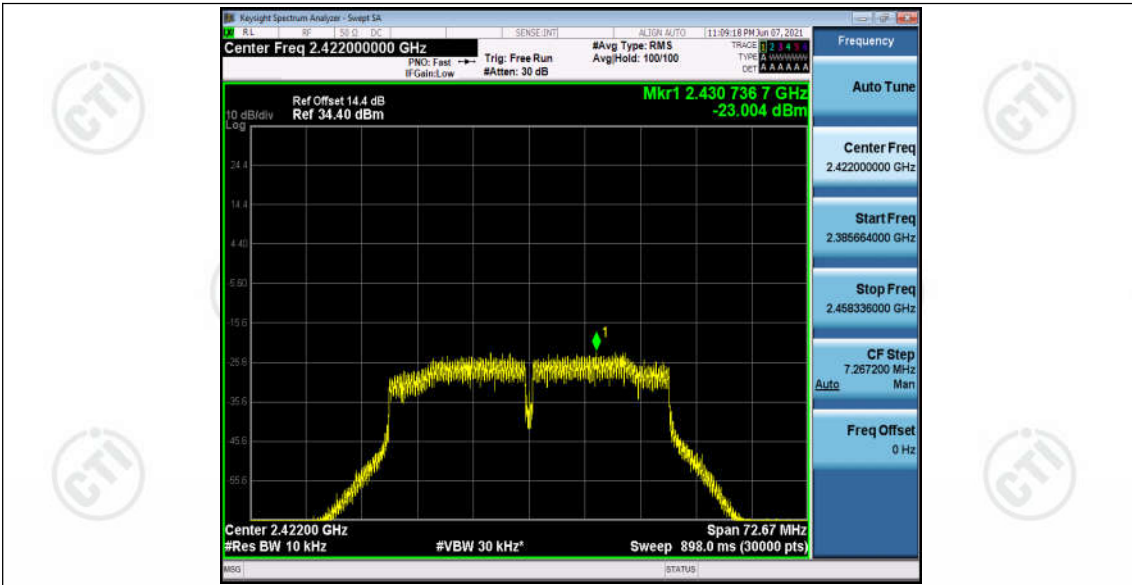
11N20MIMO\_Ant2\_2437



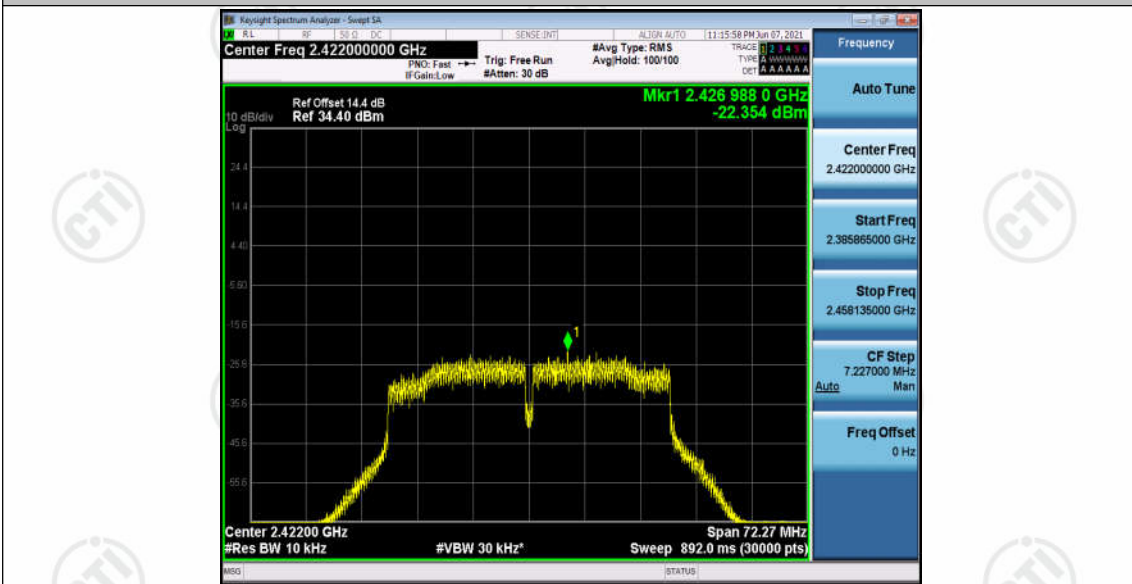
11N20MIMO\_Ant1\_2462



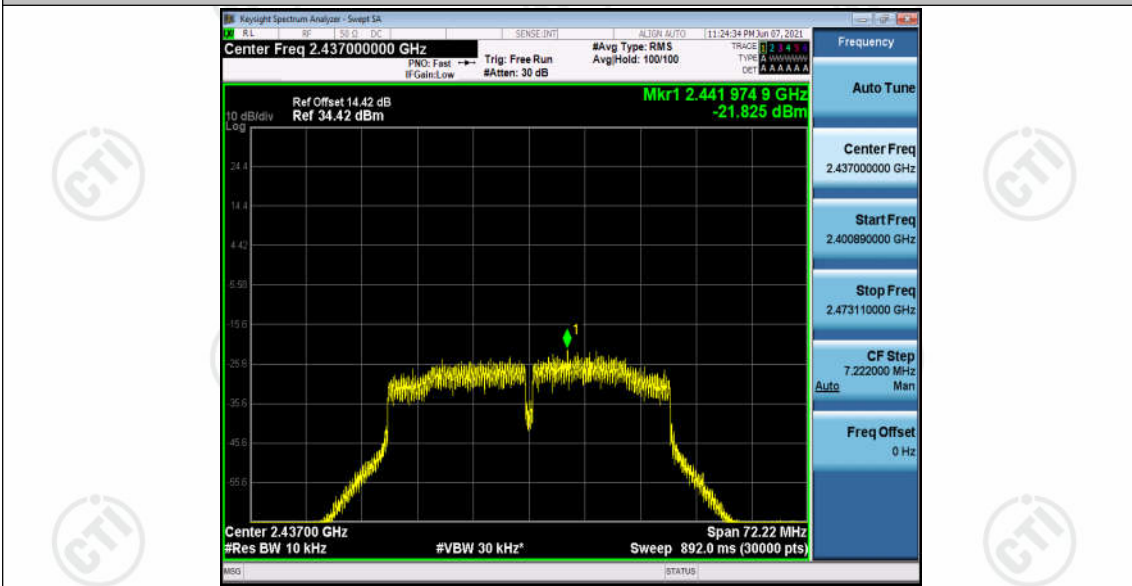
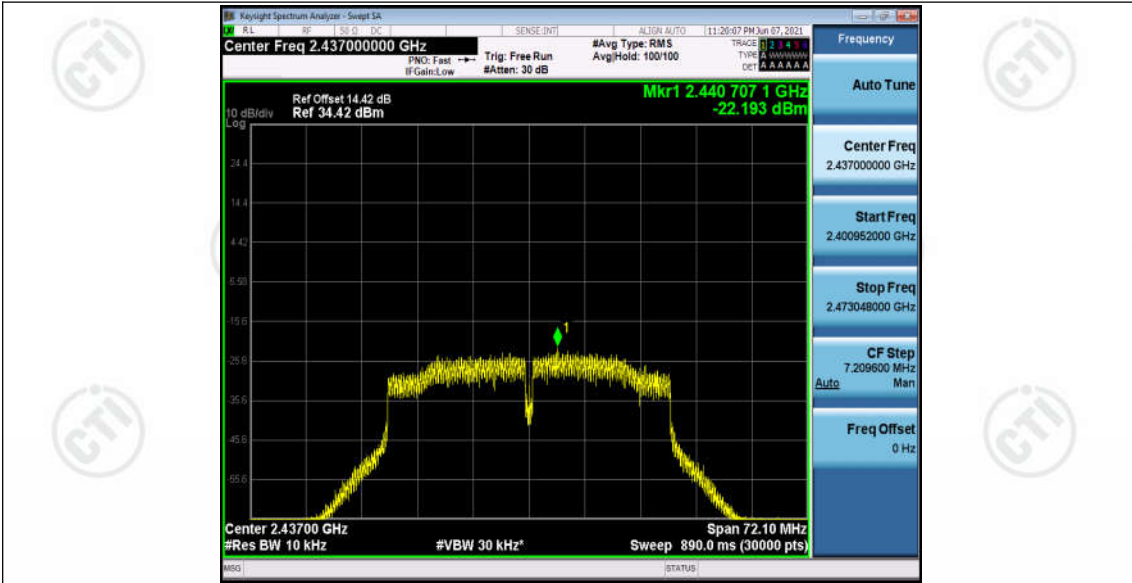
11N20MIMO\_Ant2\_2462



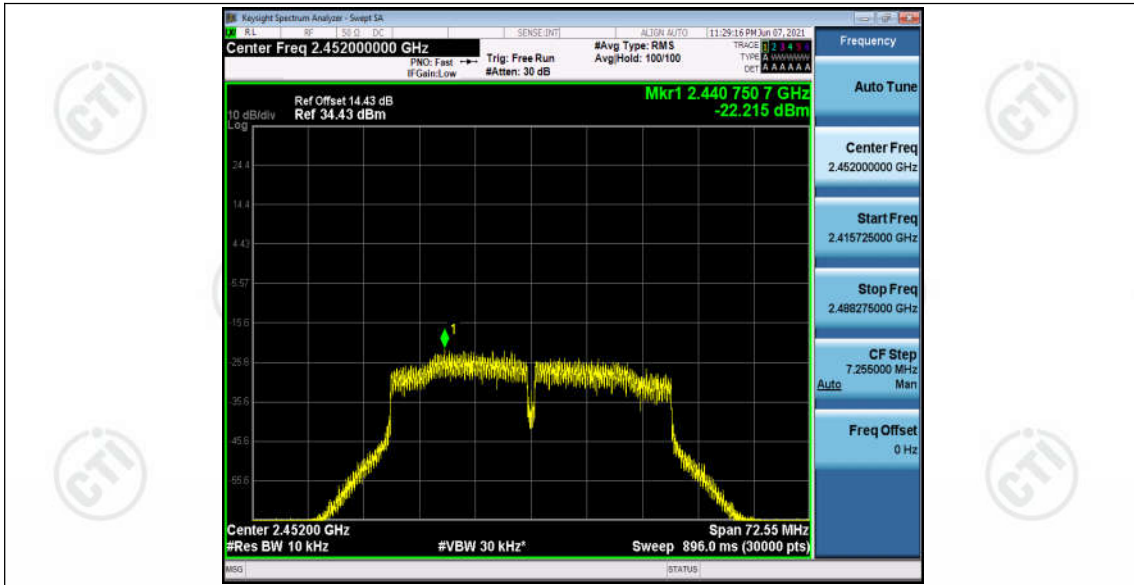
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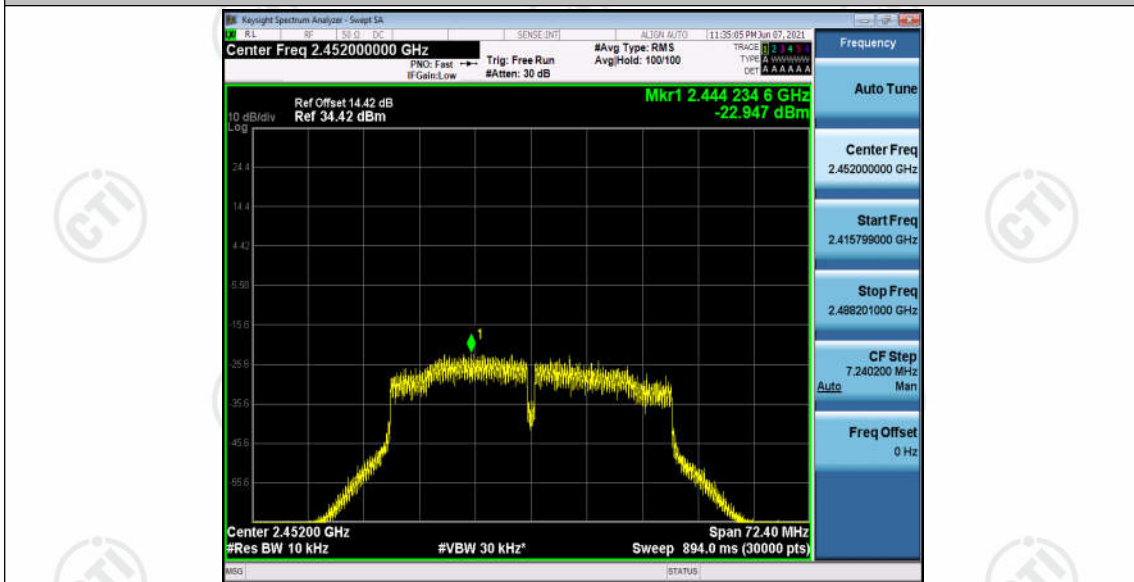
11N40MIMO\_Ant2\_2422







11N40MIMO\_Ant1\_2452



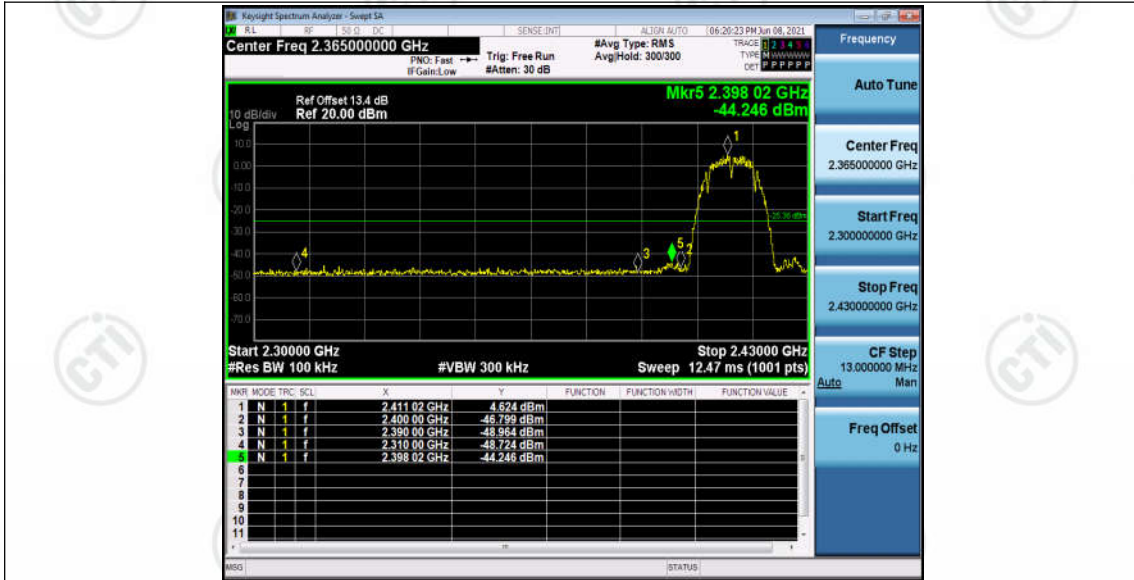
11N40MIMO\_Ant2\_2452

## Appendix E: Band edge measurements

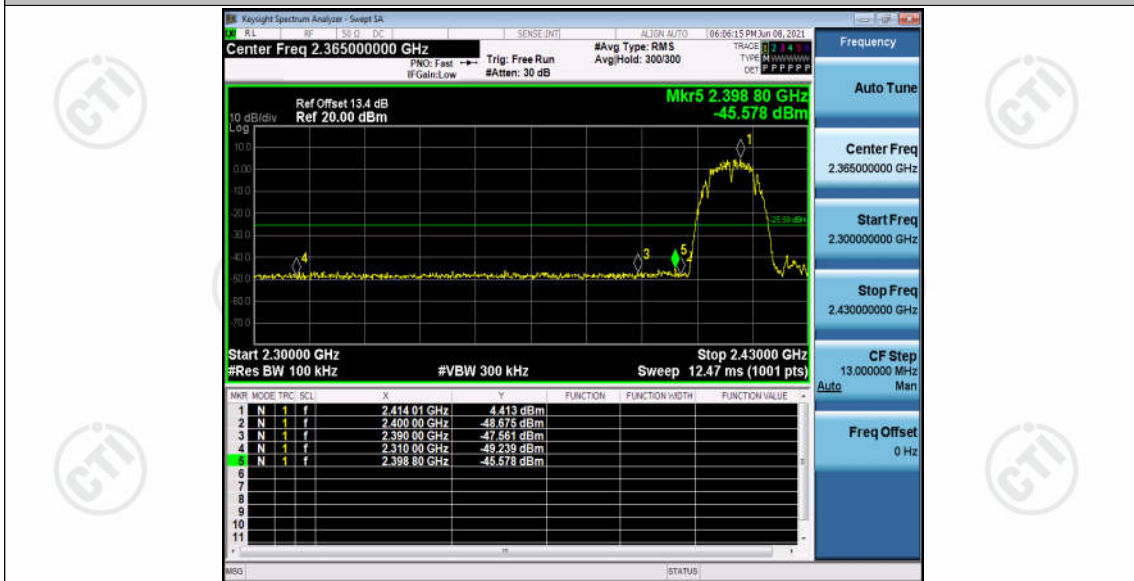
### Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	4.62	-44.25	<=-25.38	PASS
	Ant2	Low	2412	4.41	-45.58	<=-25.59	PASS
	Ant1	High	2462	4.27	-46.03	<=-25.73	PASS
	Ant2	High	2462	4.00	-45.38	<=-26	PASS
11G	Ant1	Low	2412	1.23	-29.55	<=-28.77	PASS
	Ant2	Low	2412	1.95	-30.1	<=-28.05	PASS
	Ant1	High	2462	0.71	-44.97	<=-29.29	PASS
	Ant2	High	2462	0.59	-44.76	<=-29.41	PASS
11N20SISO	Ant1	Low	2412	0.21	-30.51	<=-29.79	PASS
	Ant2	Low	2412	0.26	-32.28	<=-29.74	PASS
	Ant1	High	2462	-0.20	-45.12	<=-30.2	PASS
	Ant2	High	2462	-0.45	-45.1	<=-30.45	PASS
11N40SISO	Ant1	Low	2422	-3.07	-33.65	<=-33.07	PASS
	Ant2	Low	2422	2.24	-33.75	<=-27.76	PASS
	Ant1	High	2452	-3.02	-45.31	<=-33.02	PASS
	Ant2	High	2452	-2.77	-45	<=-32.77	PASS

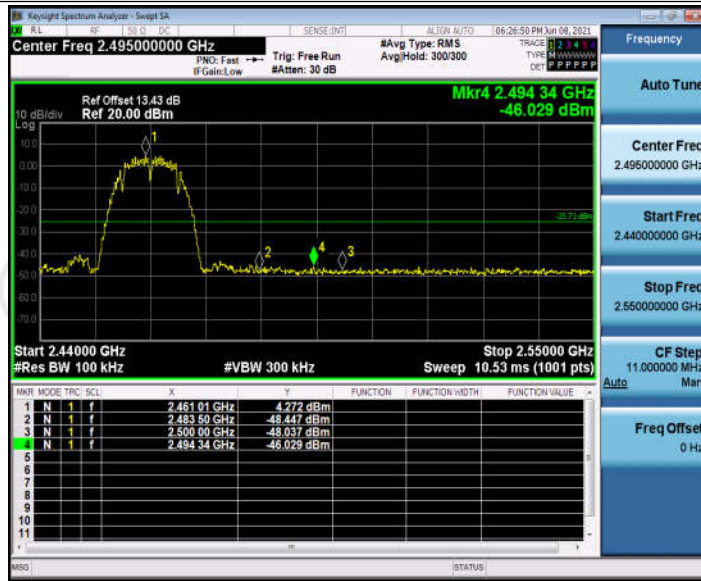
## Test Graphs



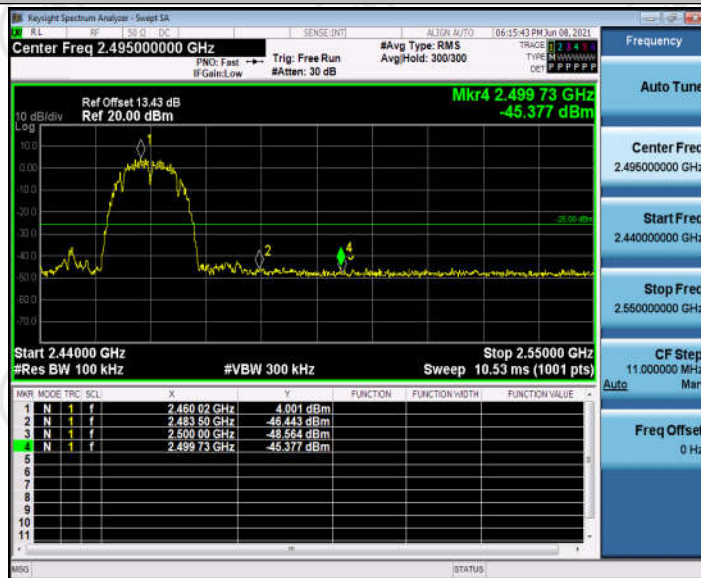
11B\_Ant1\_Low\_2412



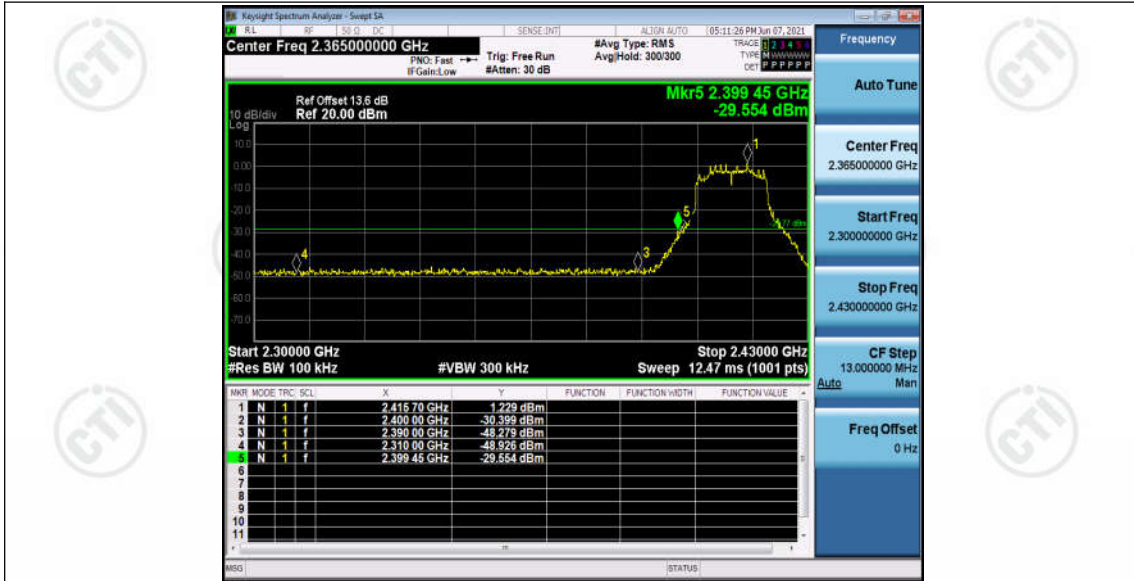
11B\_Ant2\_Low\_2412



11B\_Ant1\_High\_2462



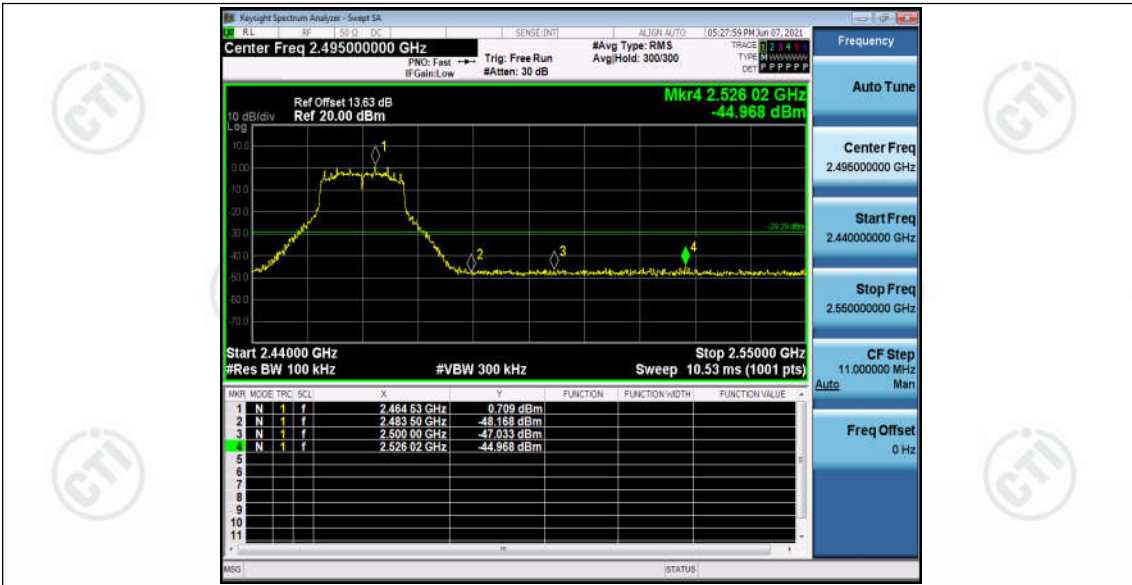
11B\_Ant2\_High\_2462



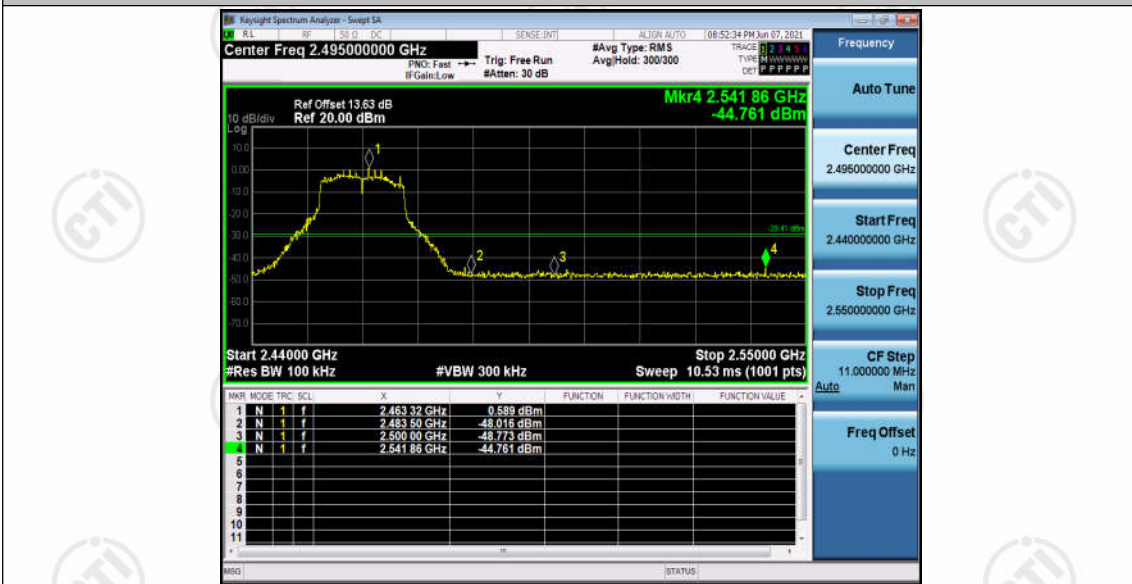
11G\_Ant1\_Low\_2412



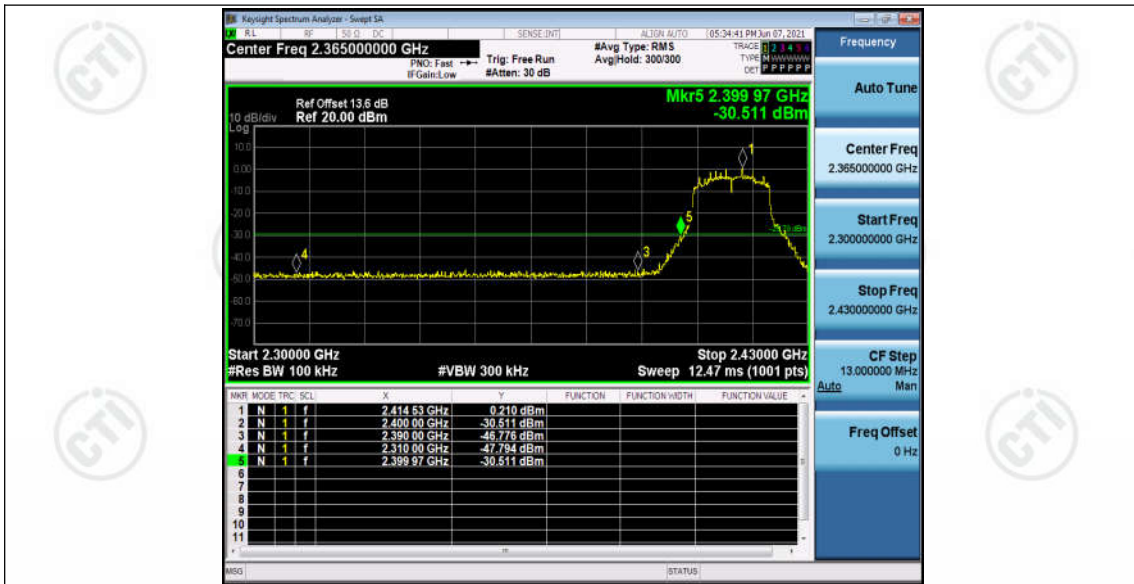
11G\_Ant2\_Low\_2412



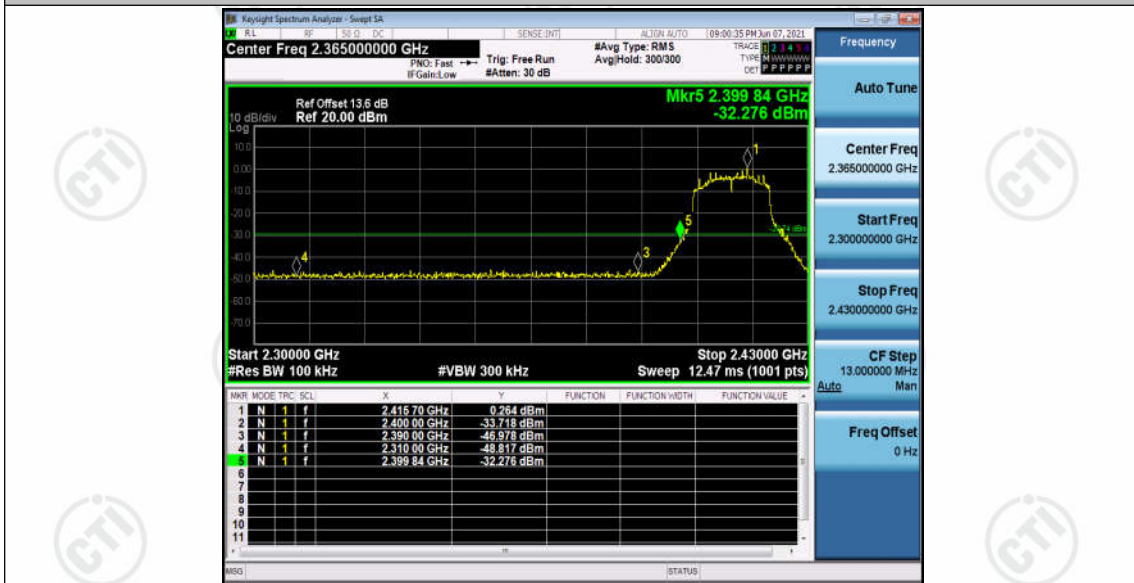
11G\_Ant1\_High\_2462



11G\_Ant2\_High\_2462



11N20SISO\_Ant1\_Low\_2412



11N20SISO\_Ant2\_Low\_2412