



Appendix A for SHEM181200031801

1.6dB Bandwidth

Test Mode	Test	EBW[MHz]		Limit	Verdict
		Ant1	Ant2		
11B	2412	10.02	10.03	0.5	PASS
11B	2437	9.08	9.55	0.5	PASS
11B	2462	10.05	9.56	0.5	PASS
11G	2412	15.67	15.09	0.5	PASS
11G	2437	15.41	15.10	0.5	PASS
11G	2462	15.81	15.66	0.5	PASS
11N20SISO	2412	16.52	15.05	0.5	PASS
11N20SISO	2437	13.86	15.08	0.5	PASS
11N20SISO	2462	15.01	15.03	0.5	PASS
11N40SISO	2422	33.82	32.61	0.5	PASS
11N40SISO	2437	33.82	33.84	0.5	PASS
11N40SISO	2452	33.82	35.02	0.5	PASS

6dB Bandwidth_11B_2412_Ant1



6dB Bandwidth_11B_2437_Ant1



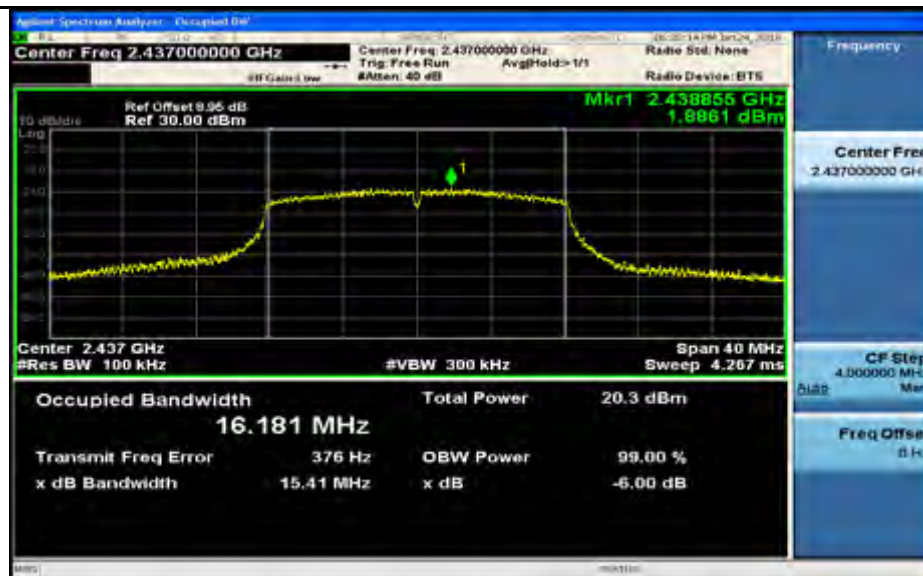
6dB Bandwidth_11B_2462_Ant1



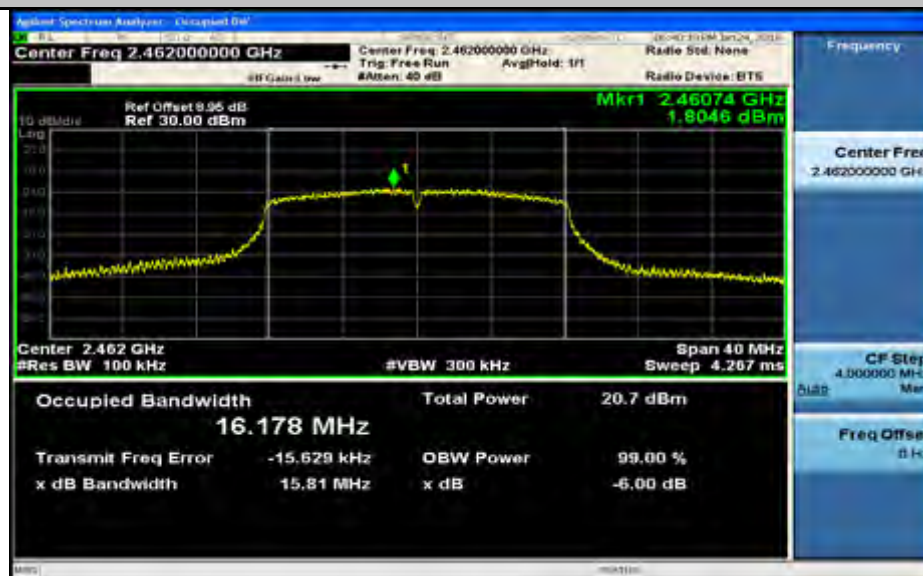
6dB Bandwidth_11G_2412_Ant1



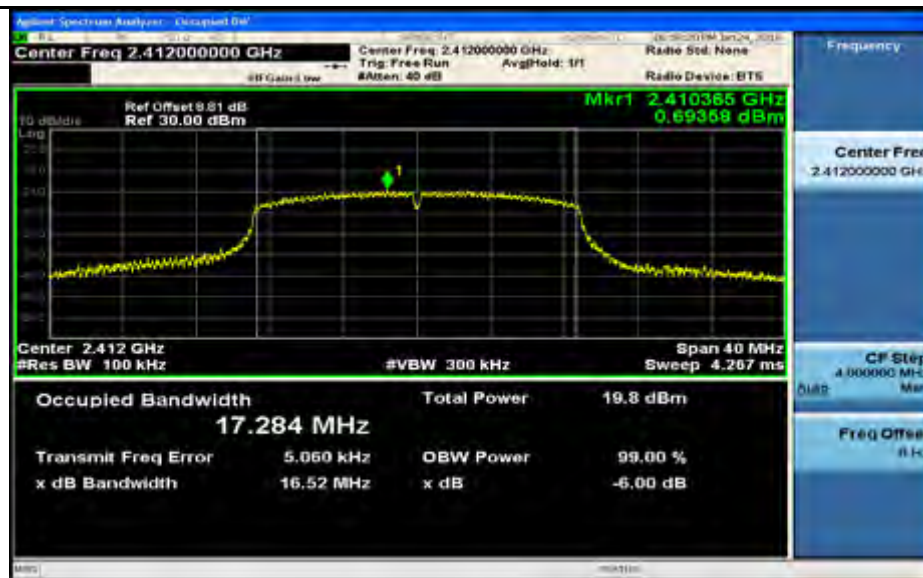
6dB Bandwidth_11G_2437_Ant1



6dB Bandwidth_11G_2462_Ant1



6dB Bandwidth_11N20SISO_2412_Ant1



6dB Bandwidth_11N20SISO_2437_Ant1



6dB Bandwidth_11N20SISO_2462_Ant1



6dB Bandwidth_11N40SISO_2422_Ant1



6dB Bandwidth_11N40SISO_2437_Ant1



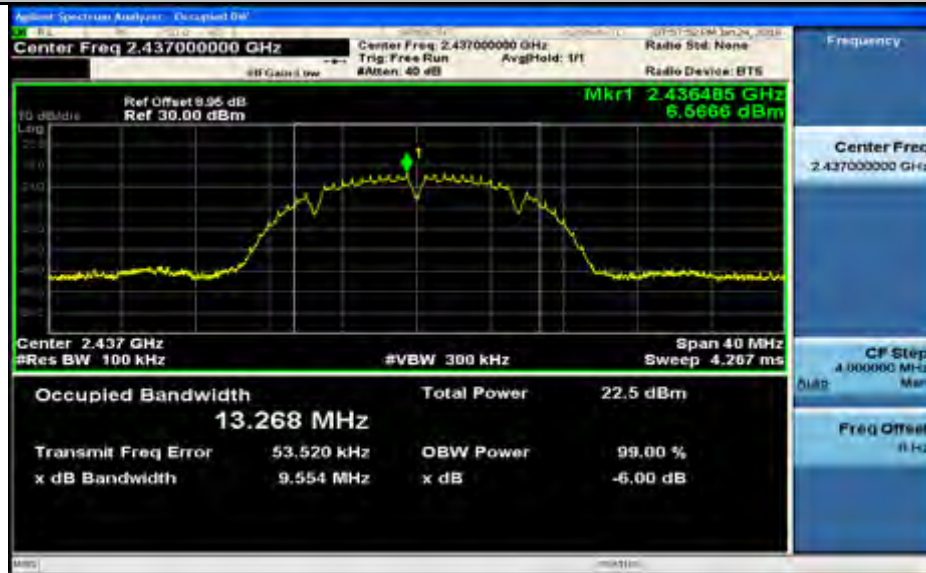
6dB Bandwidth_11N40SISO_2452_Ant1



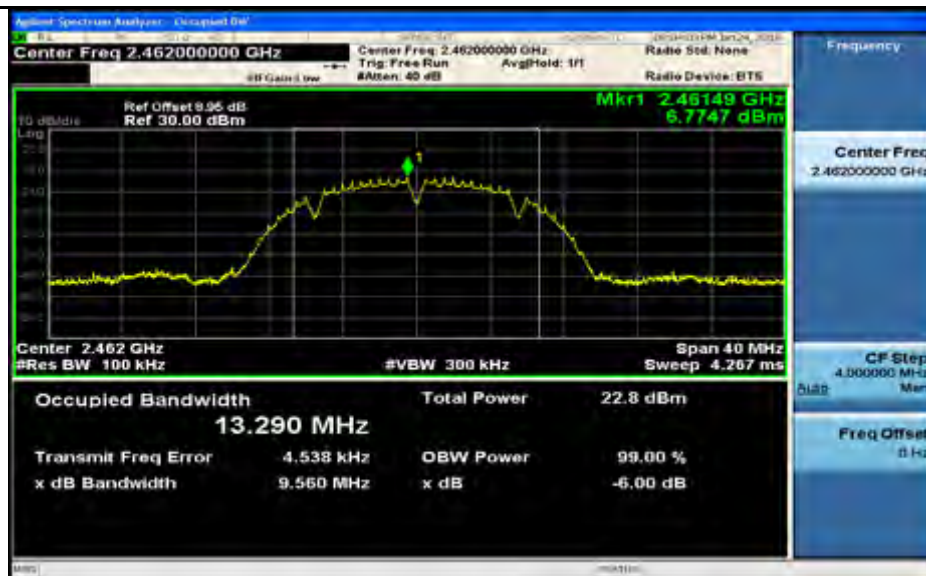
6dB Bandwidth_11B_2412_Ant2



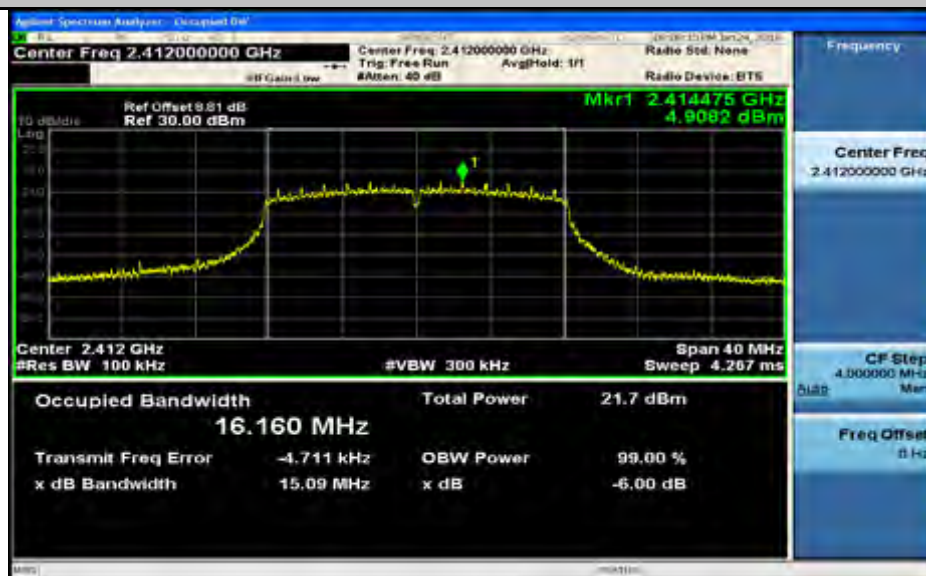
6dB Bandwidth_11B_2437_Ant2



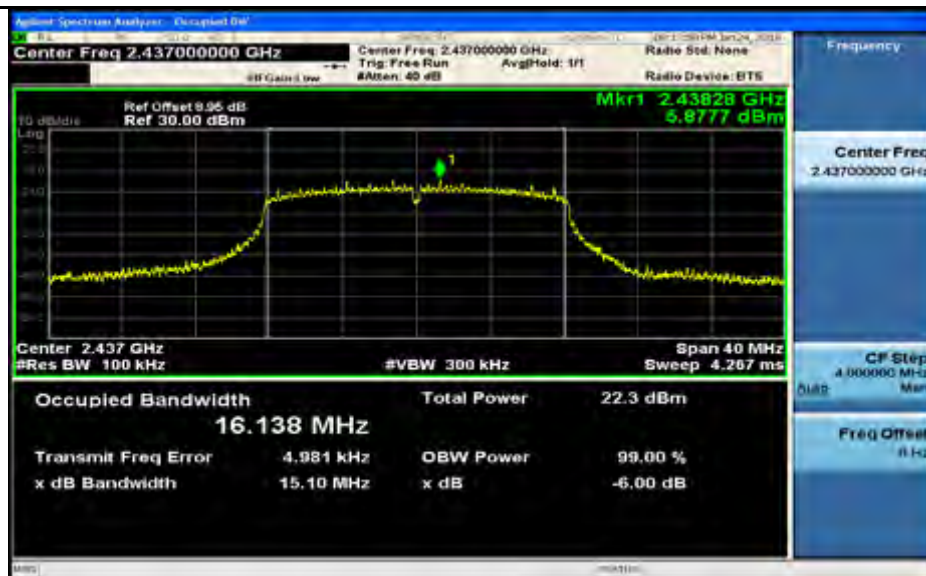
6dB Bandwidth_11B_2462_Ant2



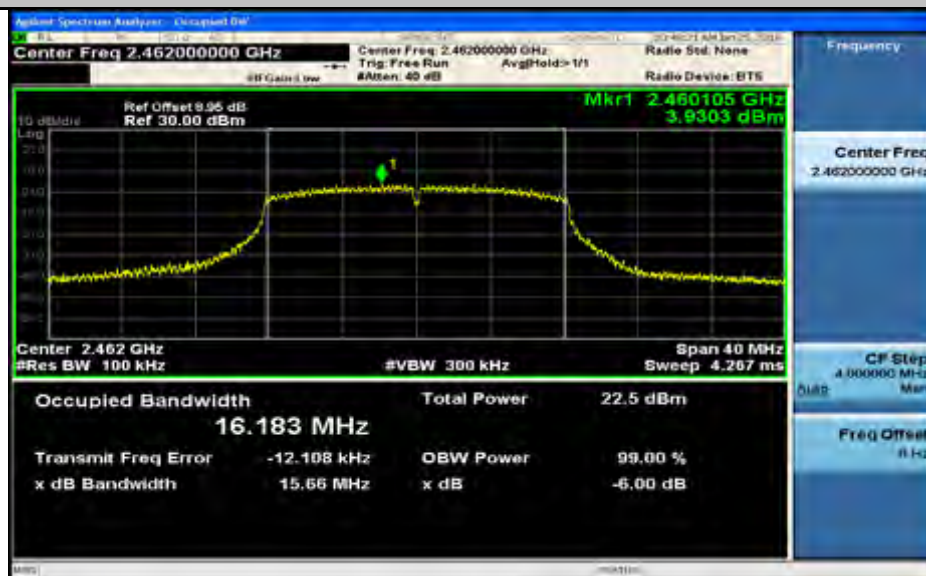
6dB Bandwidth_11G_2412_Ant2



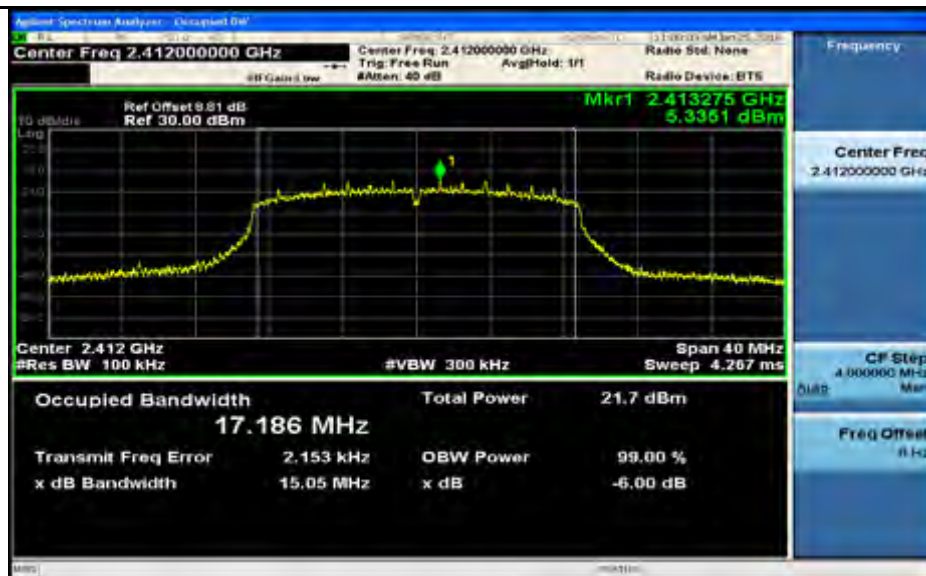
6dB Bandwidth_11G_2437_Ant2



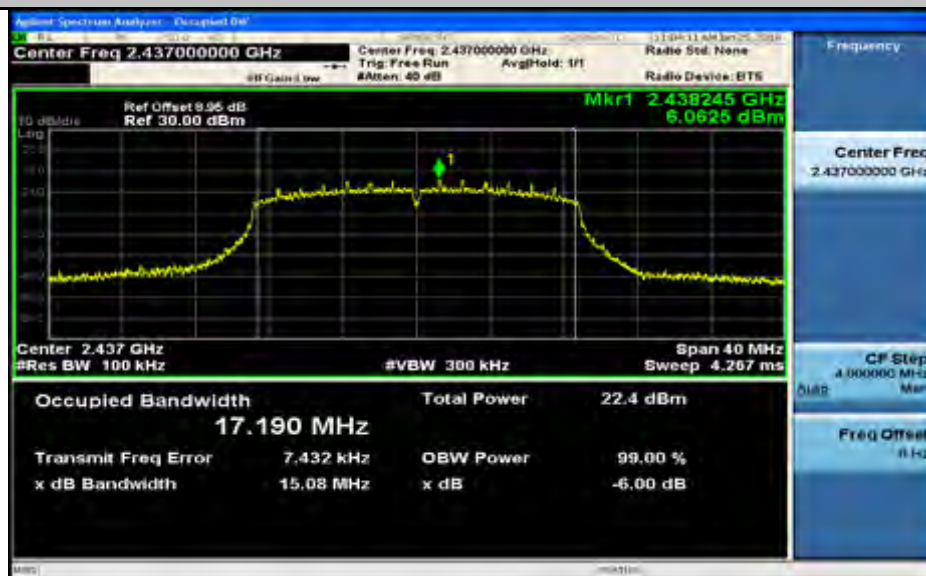
6dB Bandwidth_11G_2462_Ant2



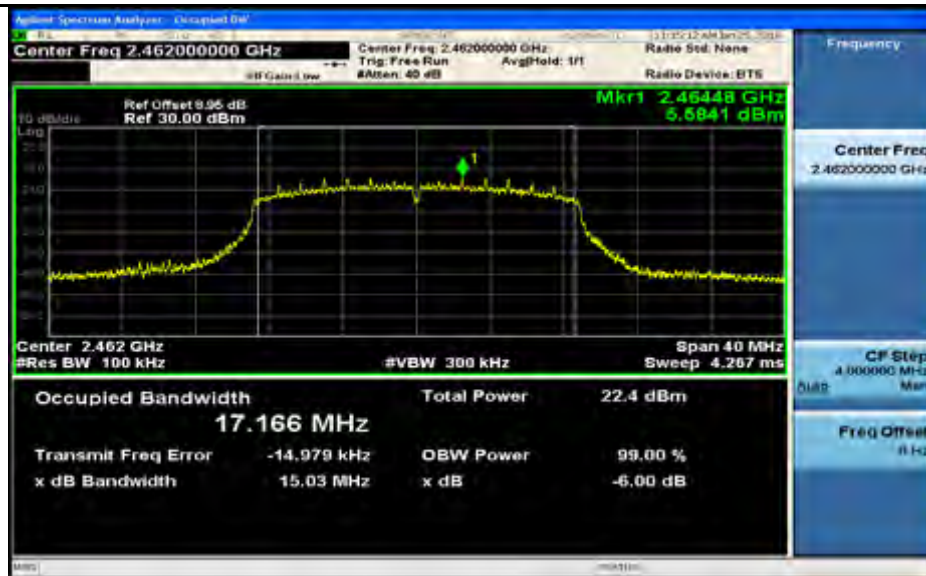
6dB Bandwidth_11N20SISO_2412_Ant2



6dB Bandwidth_11N20SISO_2437_Ant2



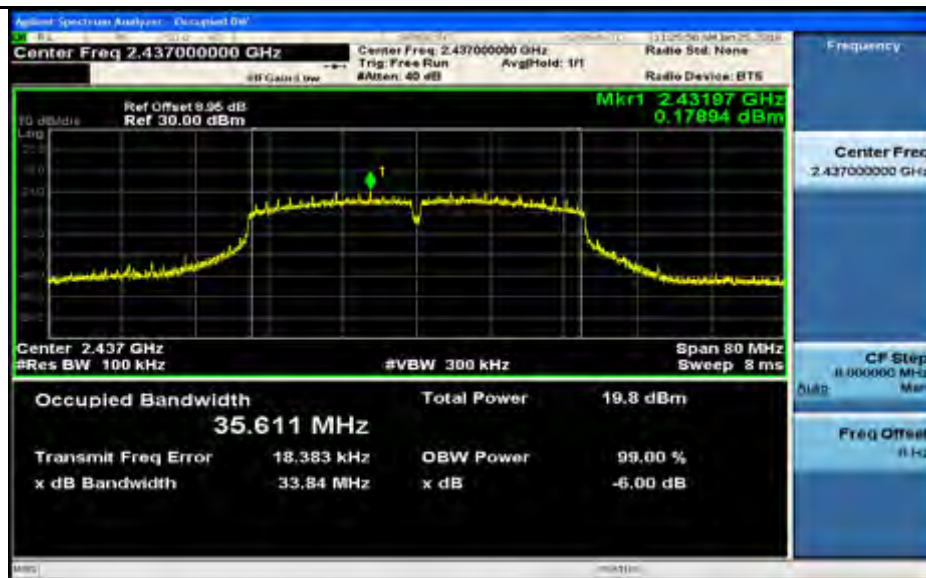
6dB Bandwidth_11N20SISO_2462_Ant2



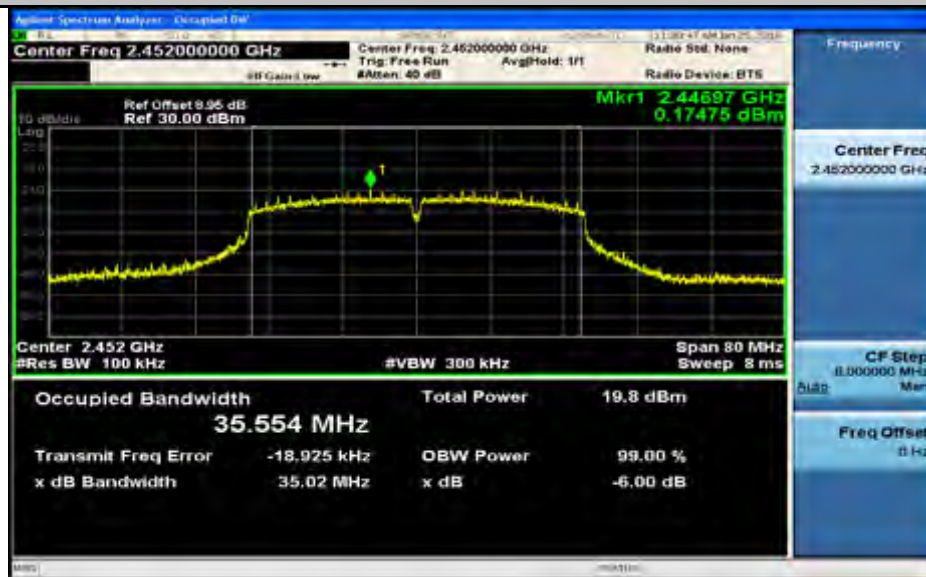
6dB Bandwidth_11N40SISO_2422_Ant2



6dB Bandwidth_11N40SISO_2437_Ant2



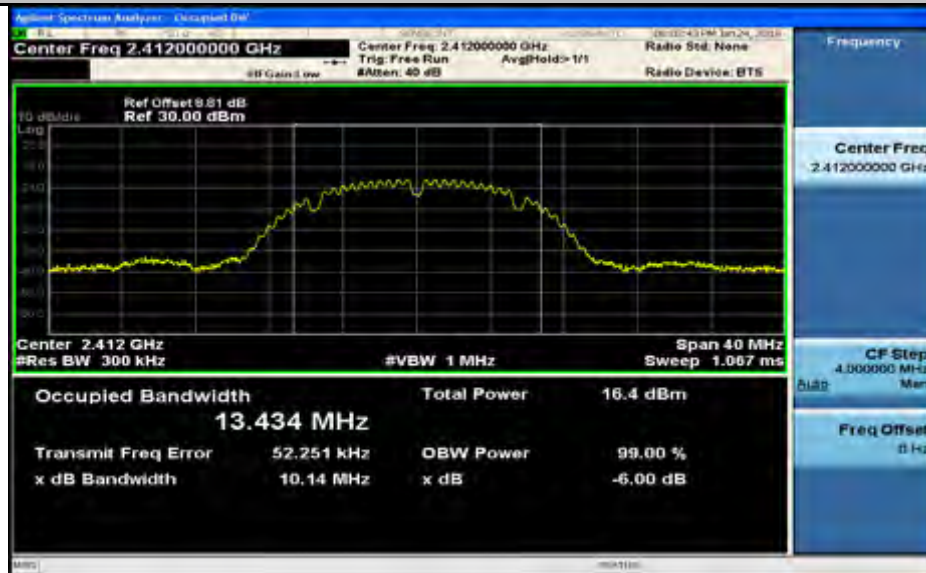
6dB Bandwidth_11N40SISO_2452_Ant2



**2.Occupied Bandwidth**

Test Mode	Test Channel	OBW[MHz]		Limit[MHz]	Verdict
		Ant1	Ant2		
11B	2412	13.43	13.43	---	PASS
11B	2437	13.22	13.29	---	PASS
11B	2462	13.42	13.31	---	PASS
11G	2412	16.14	16.17	---	PASS
11G	2437	16.17	16.13	---	PASS
11G	2462	16.16	16.16	---	PASS
11N20SISO	2412	17.27	17.23	---	PASS
11N20SISO	2437	17.15	17.15	---	PASS
11N20SISO	2462	17.24	17.22	---	PASS
11N40SISO	2422	35.89	35.91	---	PASS
11N40SISO	2437	35.90	35.76	---	PASS
11N40SISO	2452	35.72	35.77	---	PASS

Occupied Bandwidth_11B_2412_Ant1



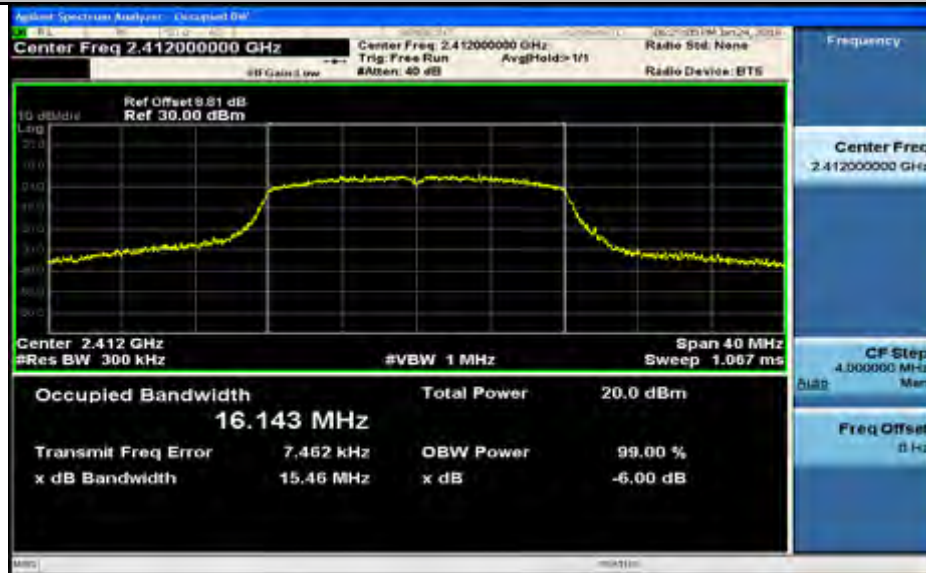
Occupied Bandwidth_11B_2437_Ant1



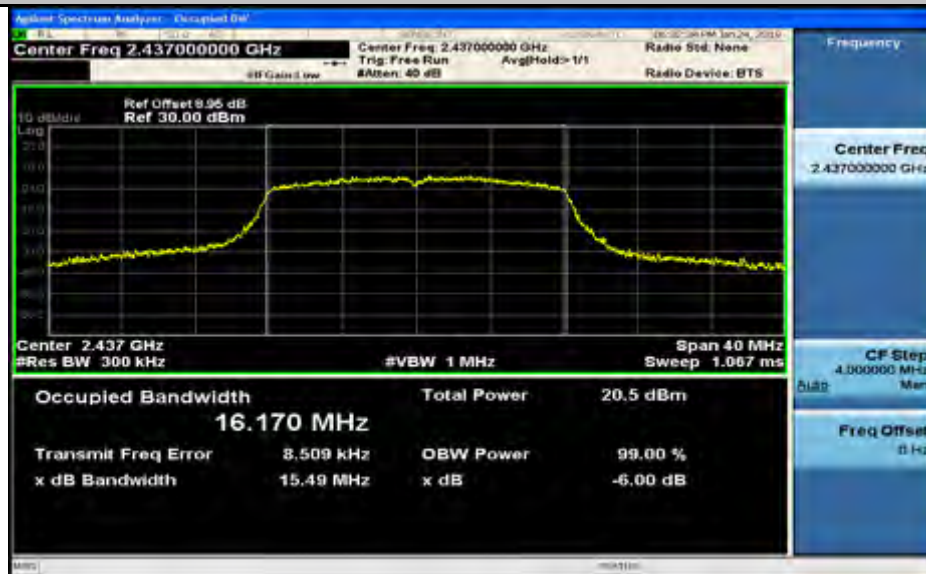
Occupied Bandwidth_11B_2462_Ant1



Occupied Bandwidth_11G_2412_Ant1



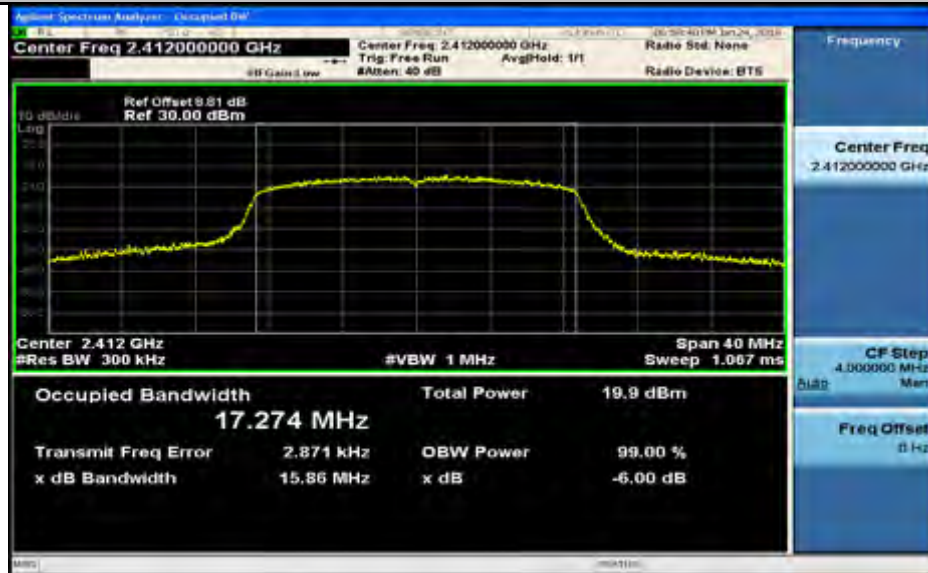
Occupied Bandwidth_11G_2437_Ant1



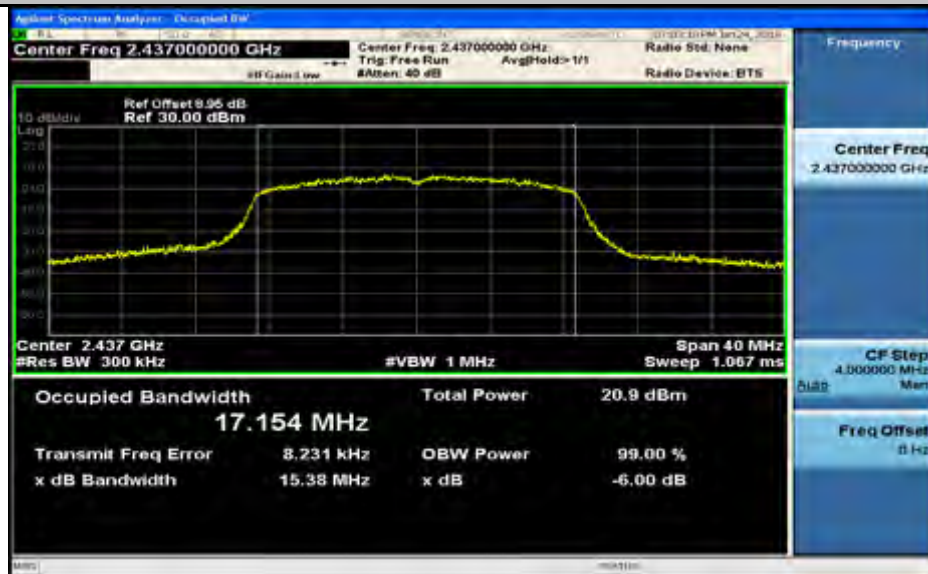
Occupied Bandwidth_11G_2462_Ant1



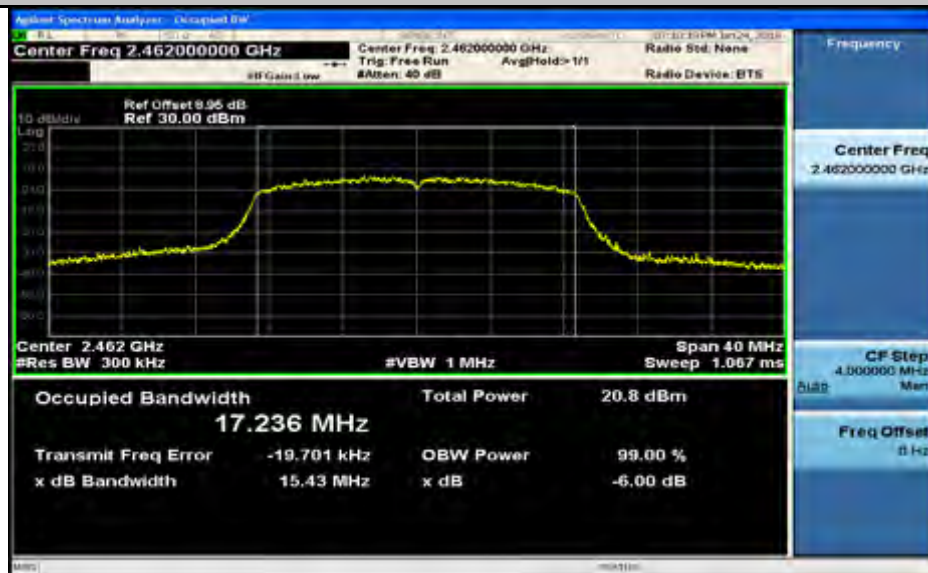
Occupied Bandwidth_11N20SISO_2412_Ant1



Occupied Bandwidth_11N20SISO_2437_Ant1



Occupied Bandwidth_11N20SISO_2462_Ant1



Occupied Bandwidth_11N40SISO_2422_Ant1



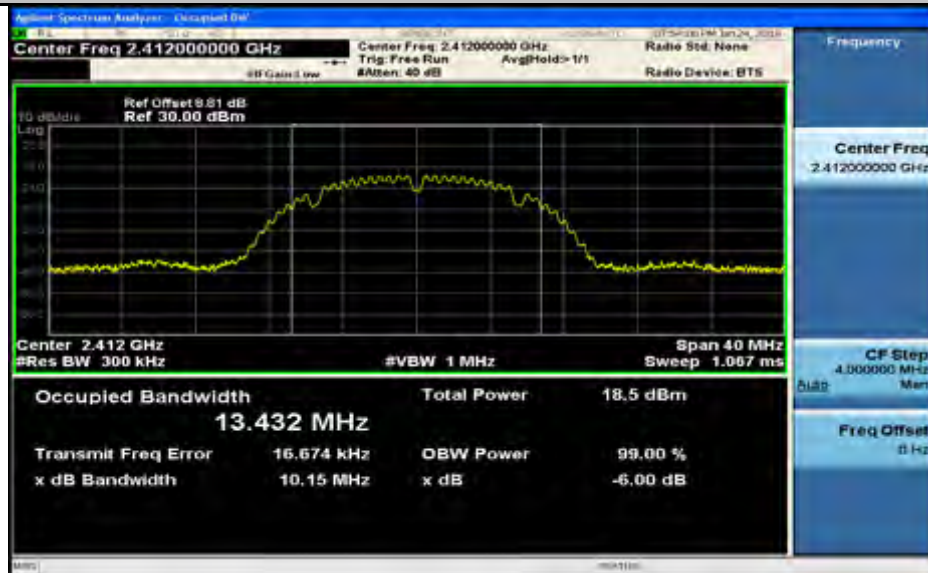
Occupied Bandwidth_11N40SISO_2437_Ant1



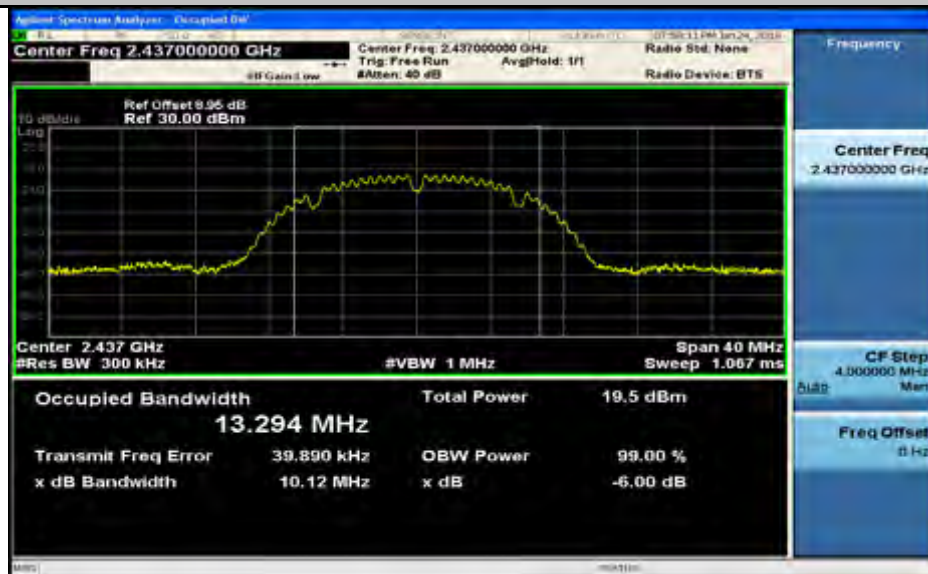
Occupied Bandwidth_11N40SISO_2452_Ant1



Occupied Bandwidth_11B_2412_Ant2



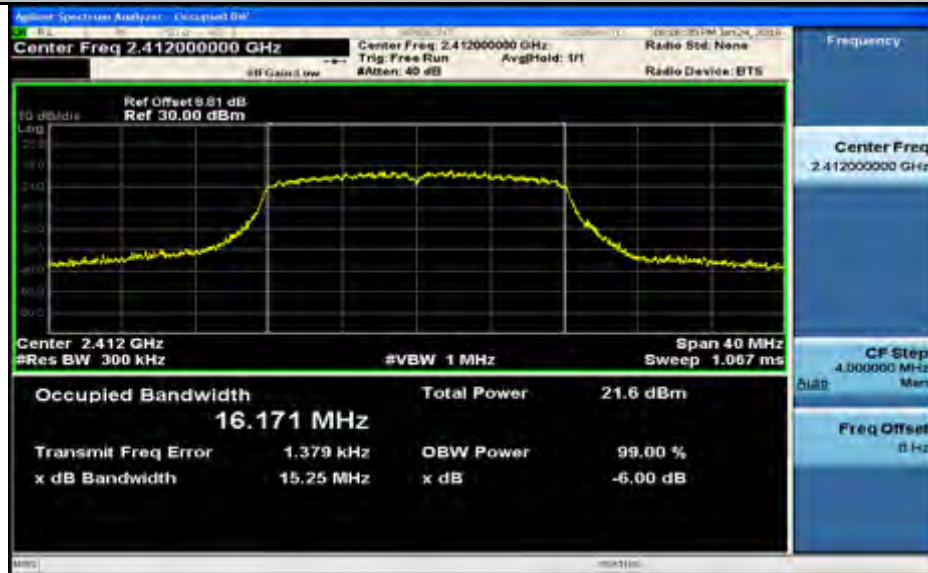
Occupied Bandwidth_11B_2437_Ant2



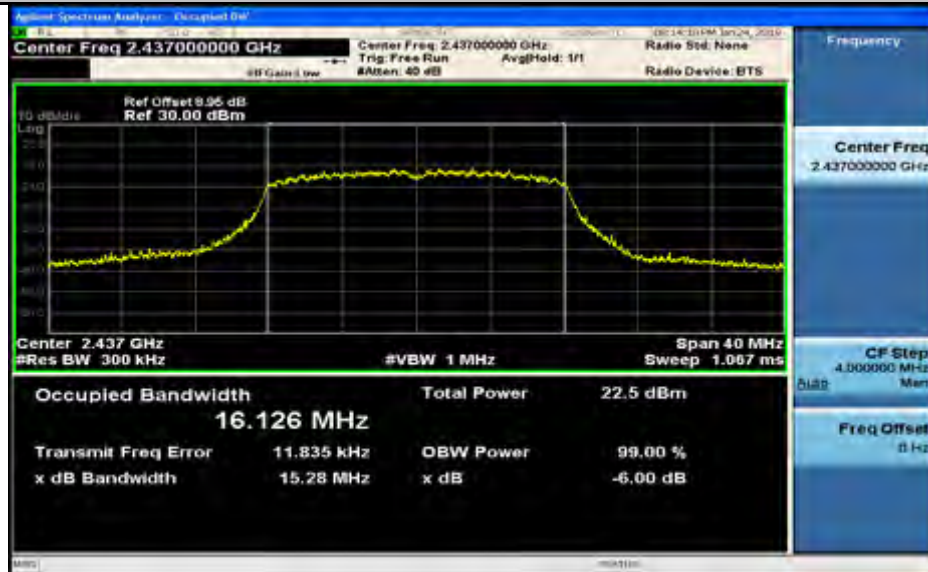
Occupied Bandwidth_11B_2462_Ant2



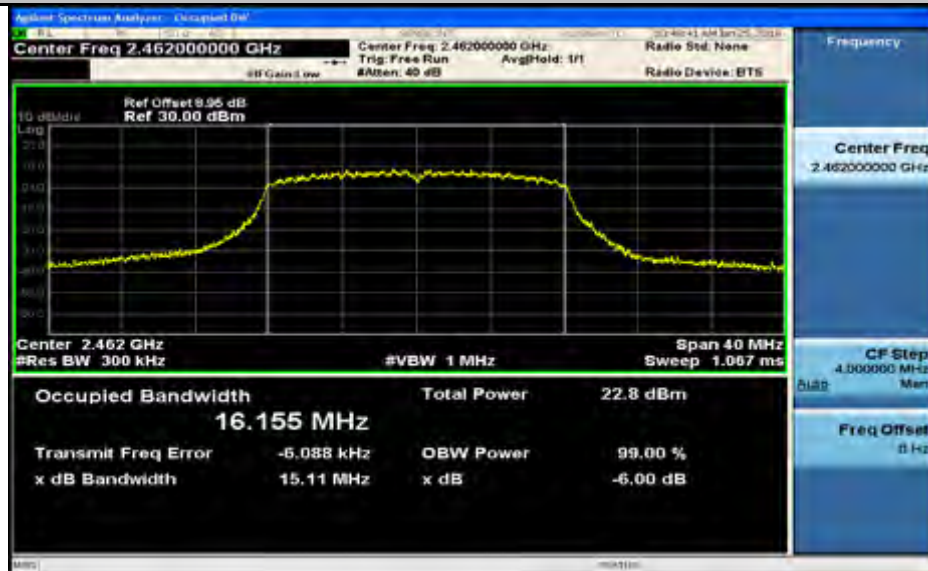
Occupied Bandwidth_11G_2412_Ant2



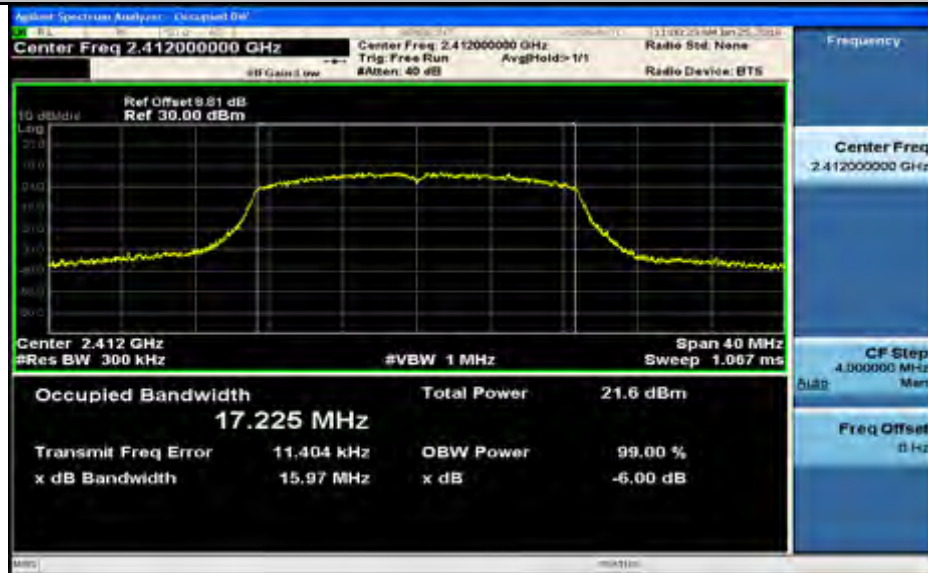
Occupied Bandwidth_11G_2437_Ant2



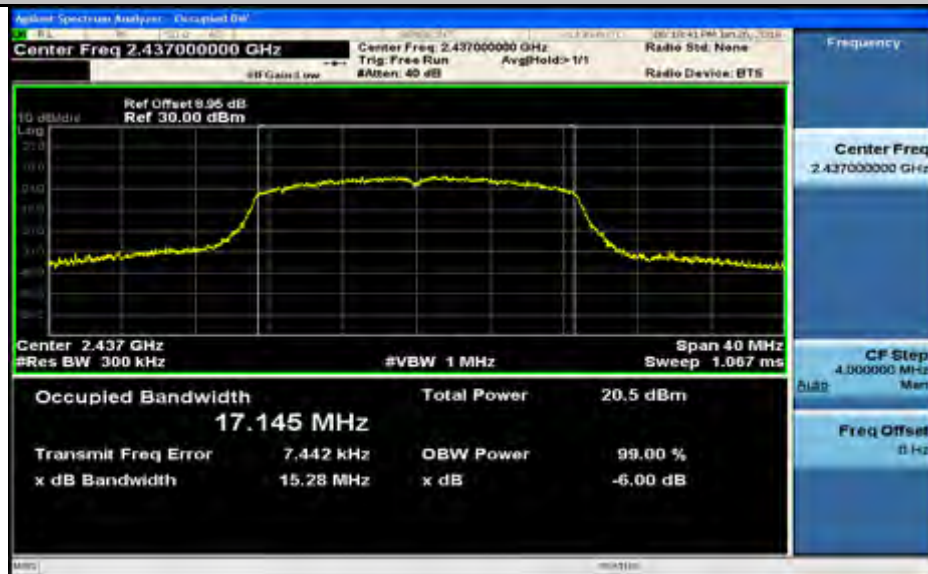
Occupied Bandwidth_11G_2462_Ant2



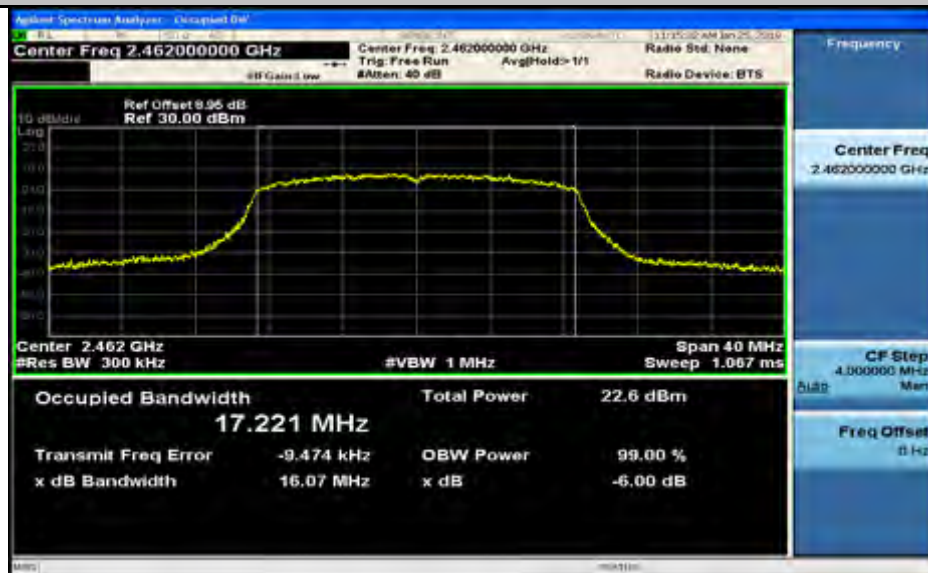
Occupied Bandwidth_11N20SISO_2412_Ant2



Occupied Bandwidth_11N20SISO_2437_Ant2



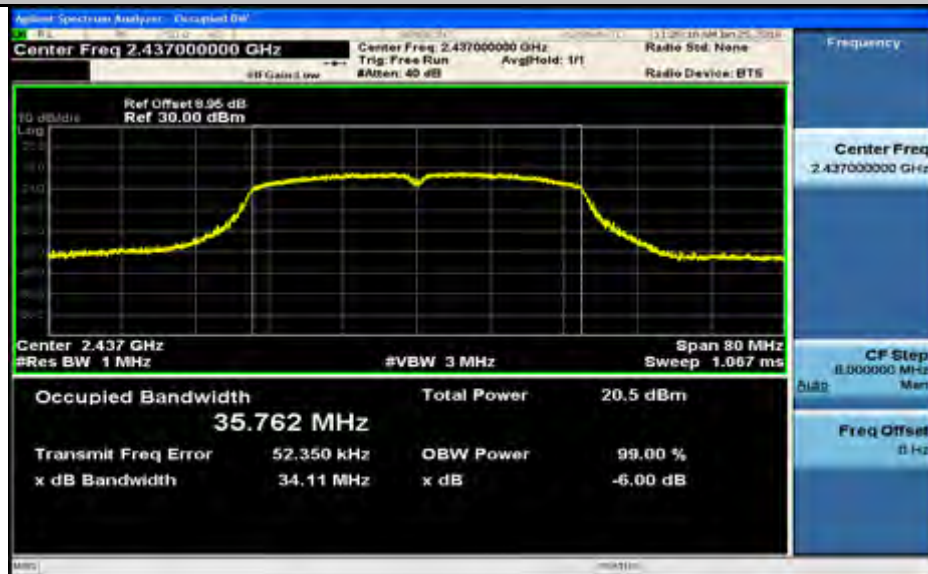
Occupied Bandwidth_11N20SISO_2462_Ant2



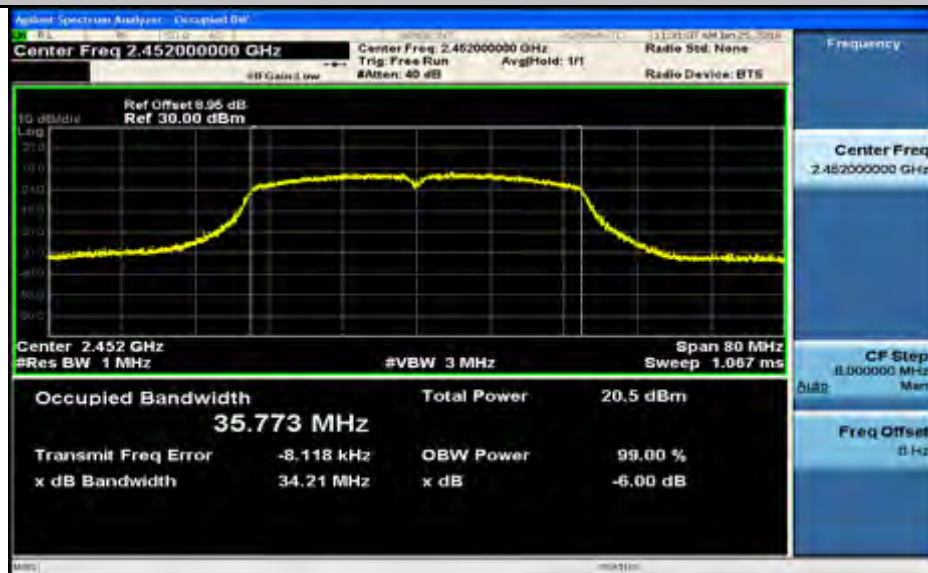
Occupied Bandwidth_11N40SISO_2422_Ant2



Occupied Bandwidth_11N40SISO_2437_Ant2



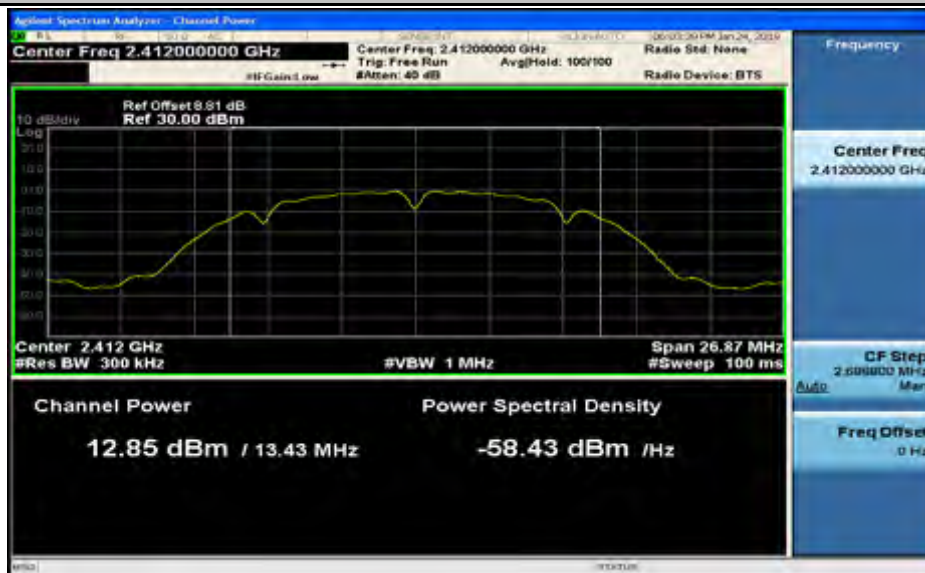
Occupied Bandwidth_11N40SISO_2452_Ant2



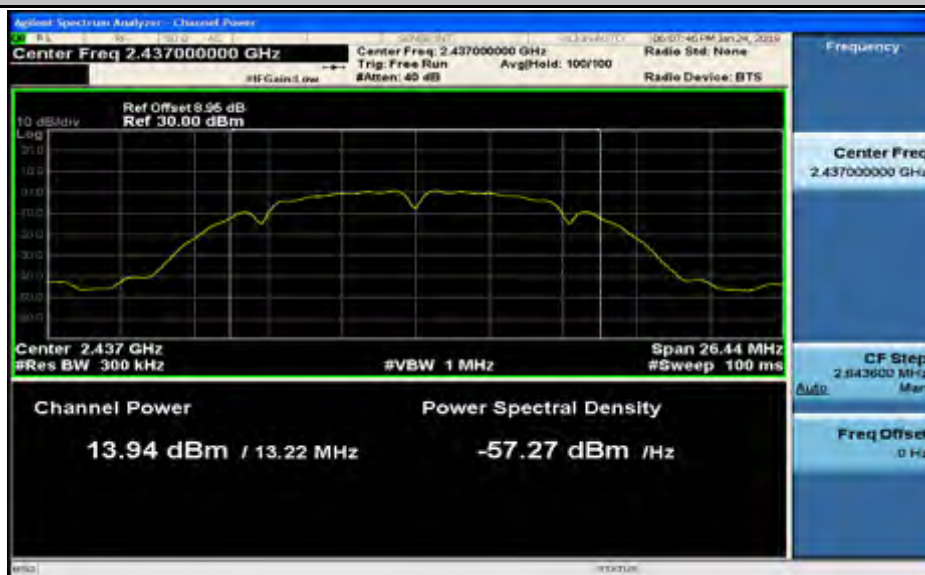
3.Maximum conducted (average) output power

Test Mode	Test Channel	Level [dBm]		10log(1/x) Factor[dB]		Power [dBm]			Limit [dBm]	Verdict
		Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	MIMO		
11B	2412	12.85	14.67	0.00	0.00	12.85	14.67	NA	30	PASS
11B	2437	13.94	15.57	0.00	0.00	13.94	15.57	NA	30	PASS
11B	2462	13.9	15.79	0.00	0.00	13.90	15.79	NA	30	PASS
11G	2412	13.3	14.79	0.00	0.11	13.30	14.90	NA	30	PASS
11G	2437	13.72	15.62	0.00	0.11	13.72	15.72	NA	30	PASS
11G	2462	14.05	15.96	0.00	0.00	14.05	15.96	NA	30	PASS
11N20MIMO	2412	13.08	14.71	0.00	0.12	13.08	14.83	17.05	29	PASS
11N20MIMO	2437	13.92	13.96	0.12	0.12	14.04	14.08	17.07	29	PASS
11N20MIMO	2462	13.93	15.47	0.12	0.12	14.04	15.59	17.89	29	PASS
11N40MIMO	2422	11.08	12.41	0.18	0.18	11.27	12.59	14.99	29	PASS
11N40MIMO	2437	11.6	12.76	0.18	0.18	11.78	12.94	15.41	29	PASS
11N40MIMO	2452	11.99	12.74	0.18	0.18	12.17	12.92	15.57	29	PASS

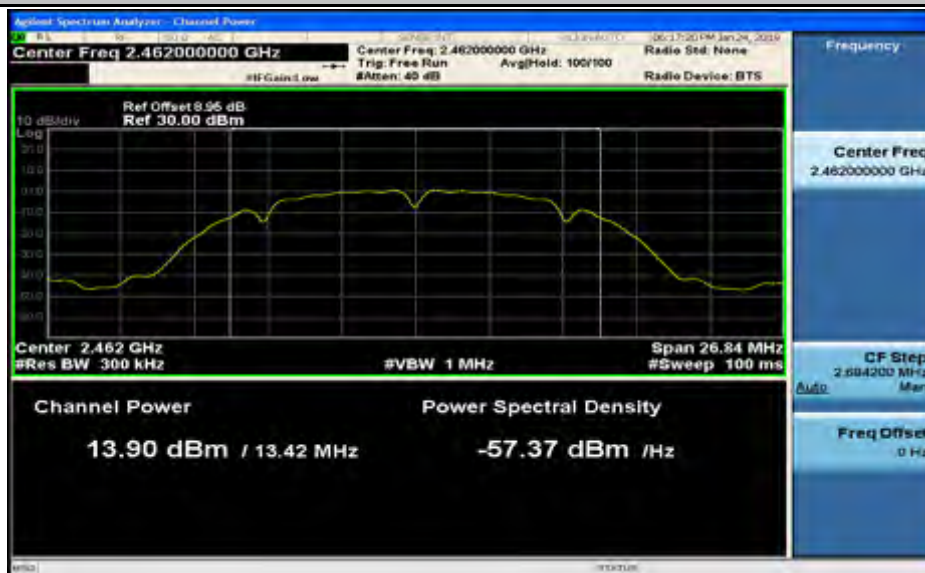
Maximum conducted (average) output power_11B_2412_Ant1



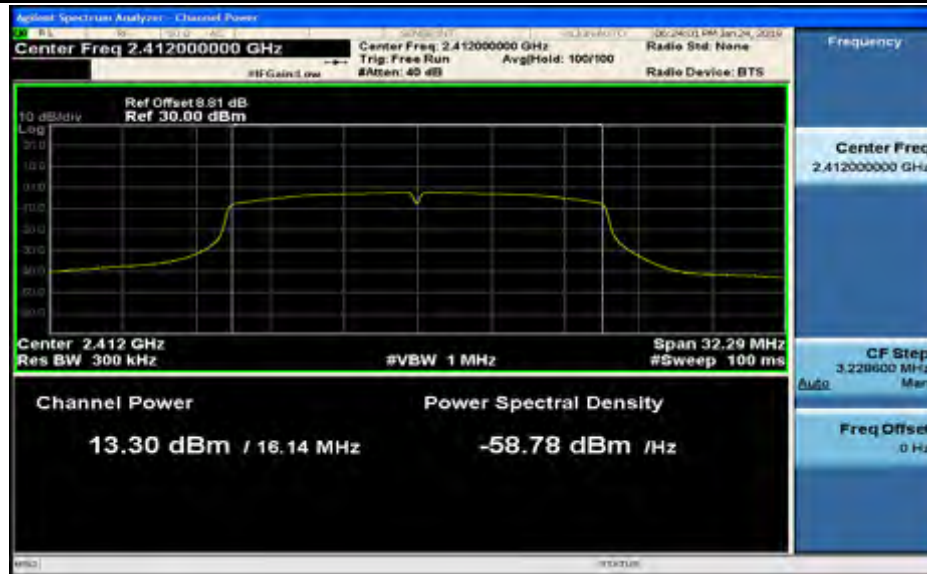
Maximum conducted (average) output power_11B_2437_Ant1



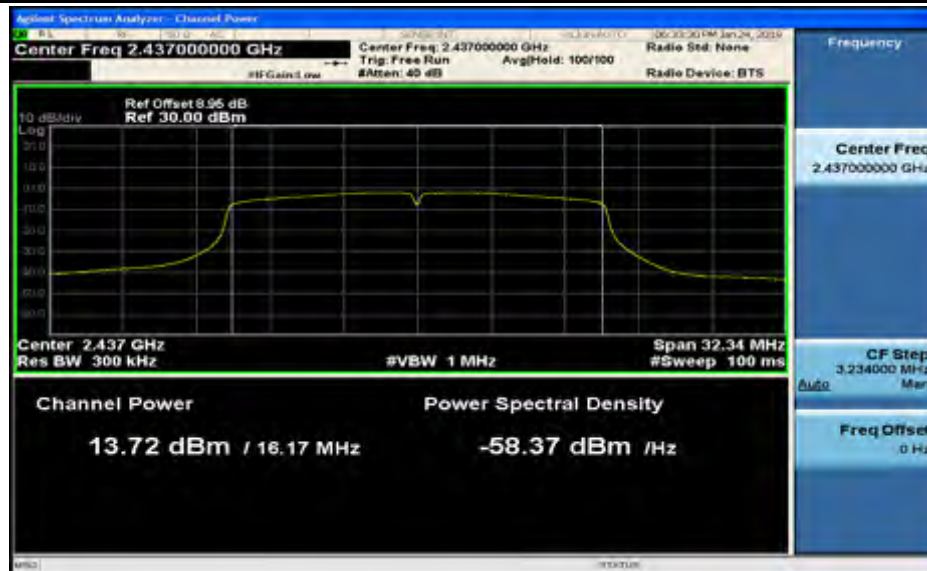
Maximum conducted (average) output power_11B_2462_Ant1



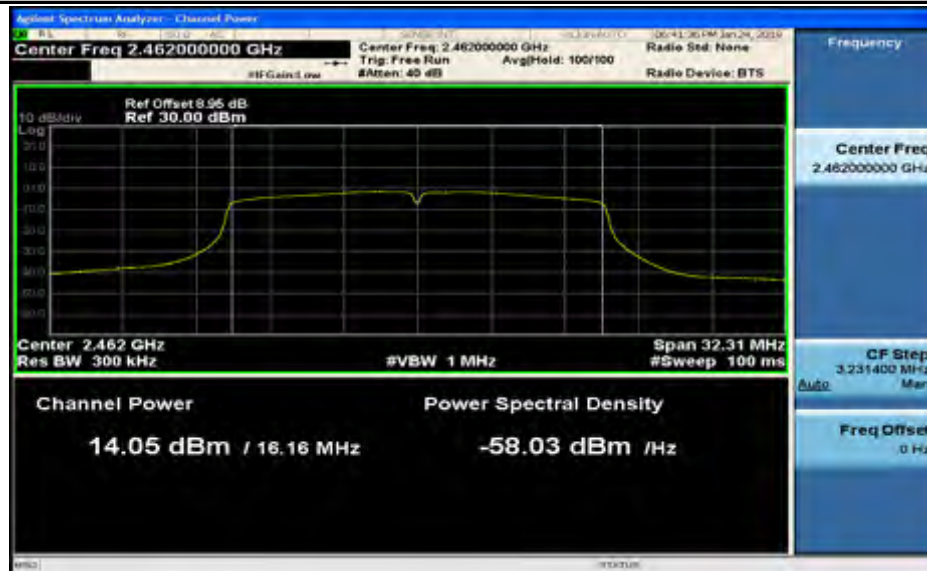
Maximum conducted (average) output power_11G_2412_Ant1



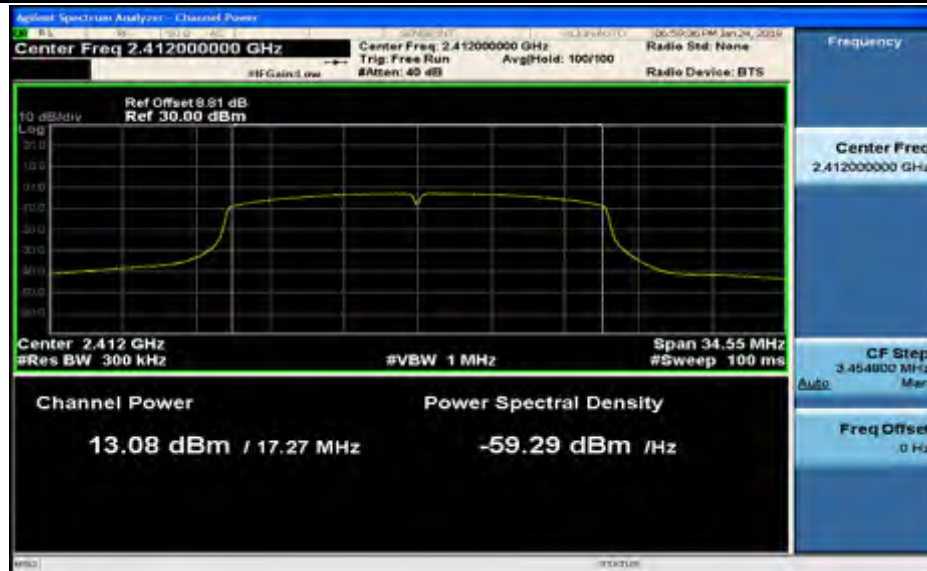
Maximum conducted (average) output power_11G_2437_Ant1



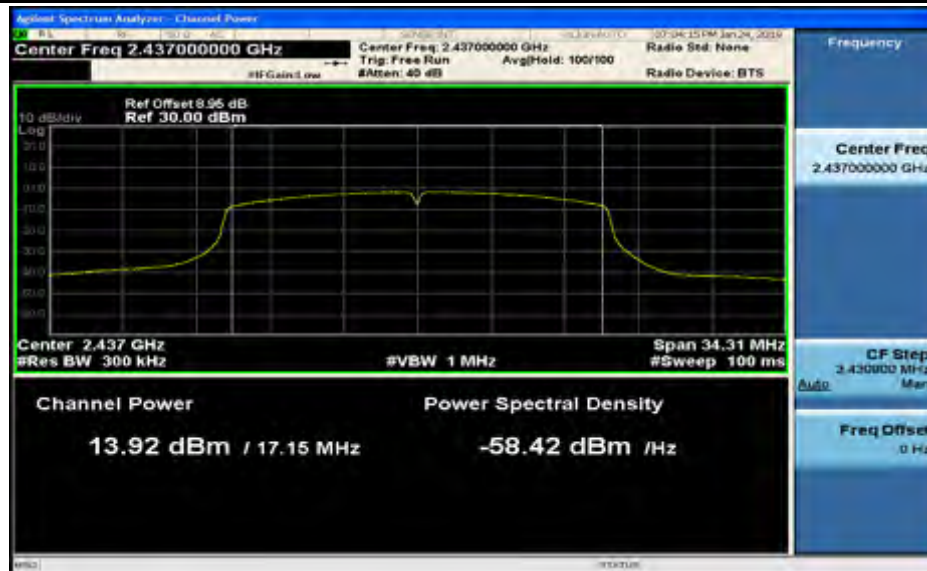
Maximum conducted (average) output power_11G_2462_Ant1



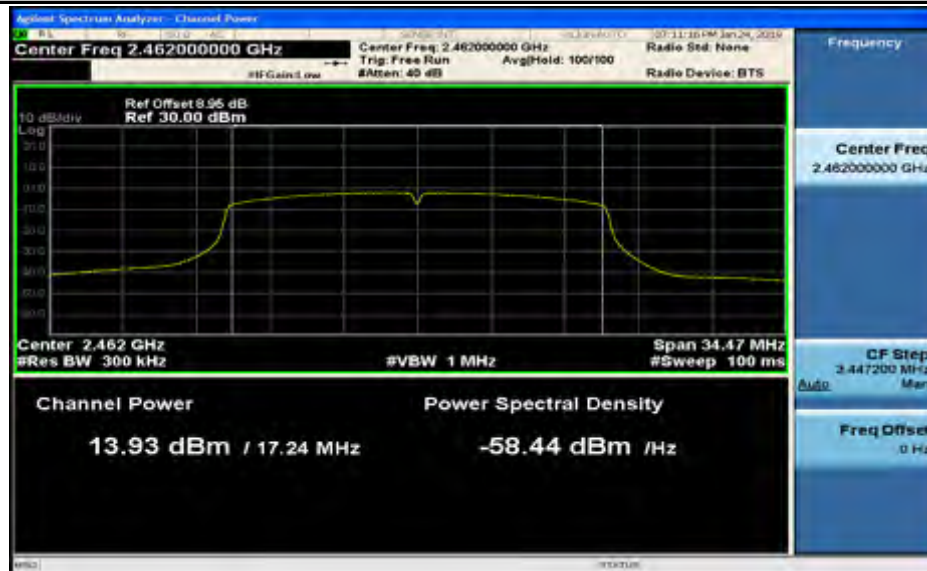
Maximum conducted (average) output power_11N20MIMO_2412_Ant1



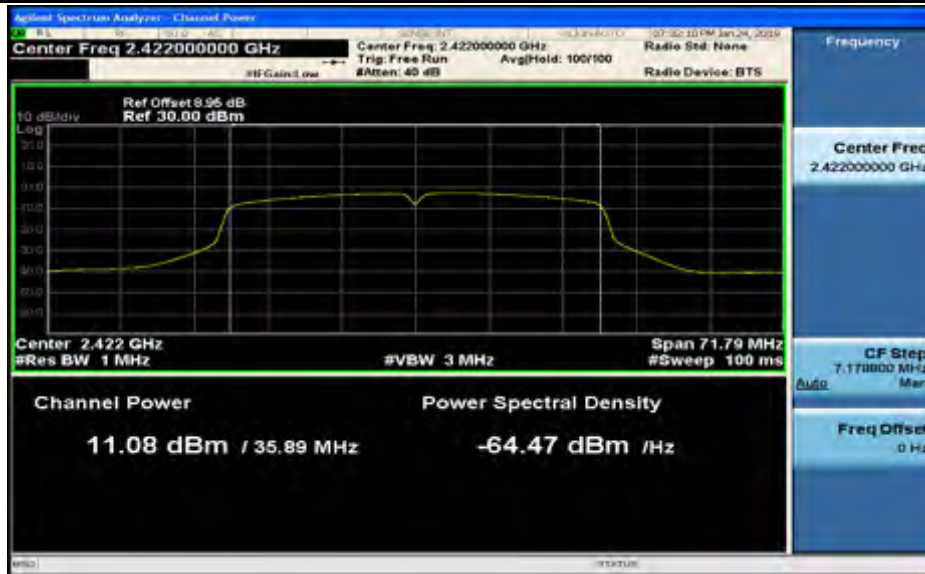
Maximum conducted (average) output power_11N20MIMO_2437_Ant1



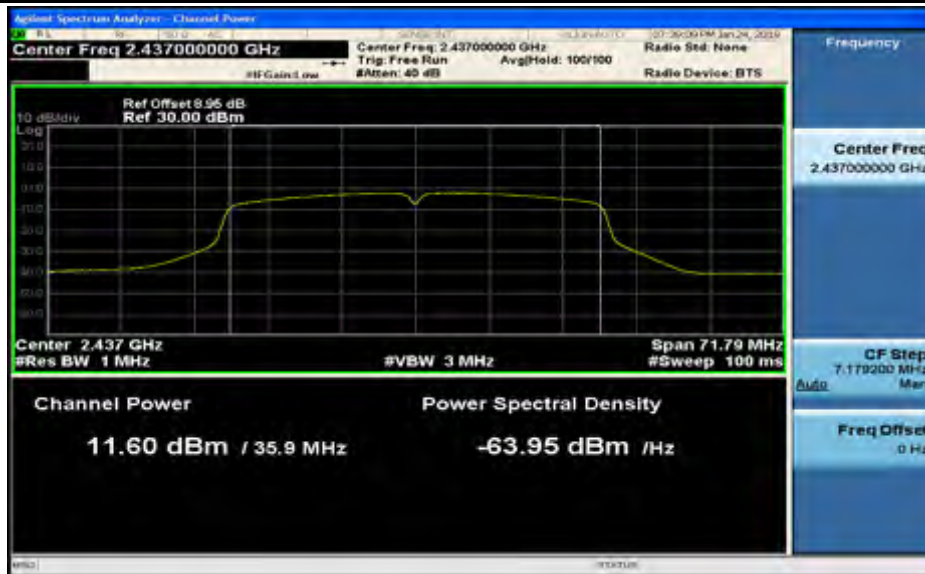
Maximum conducted (average) output power_11N20MIMO_2462_Ant1



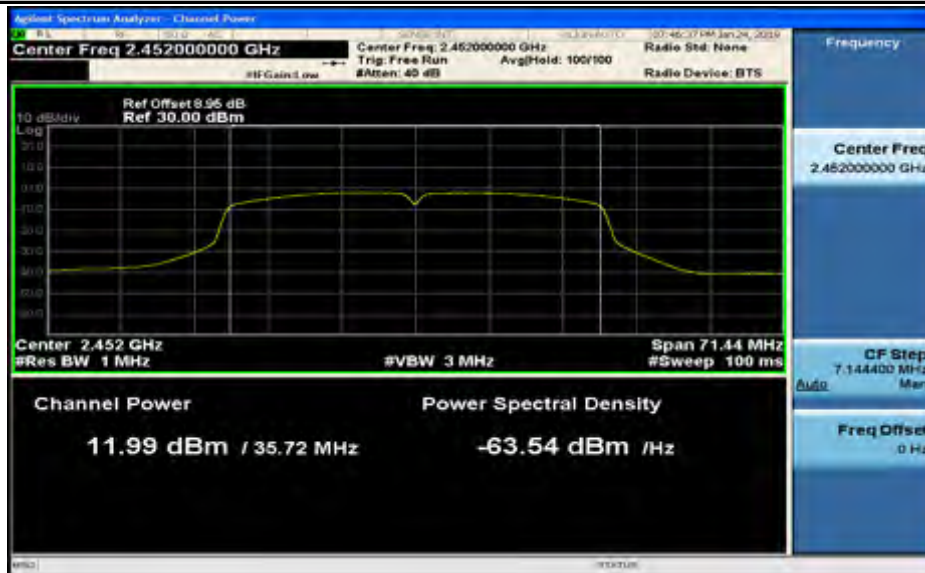
Maximum conducted (average) output power_11N40MIMO_2422_Ant1



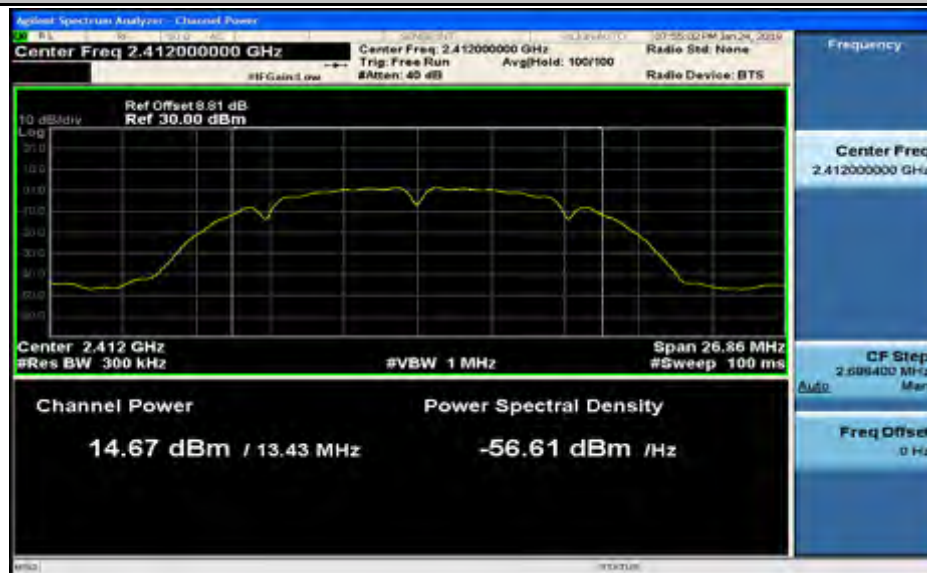
Maximum conducted (average) output power_11N40MIMO_2437_Ant1



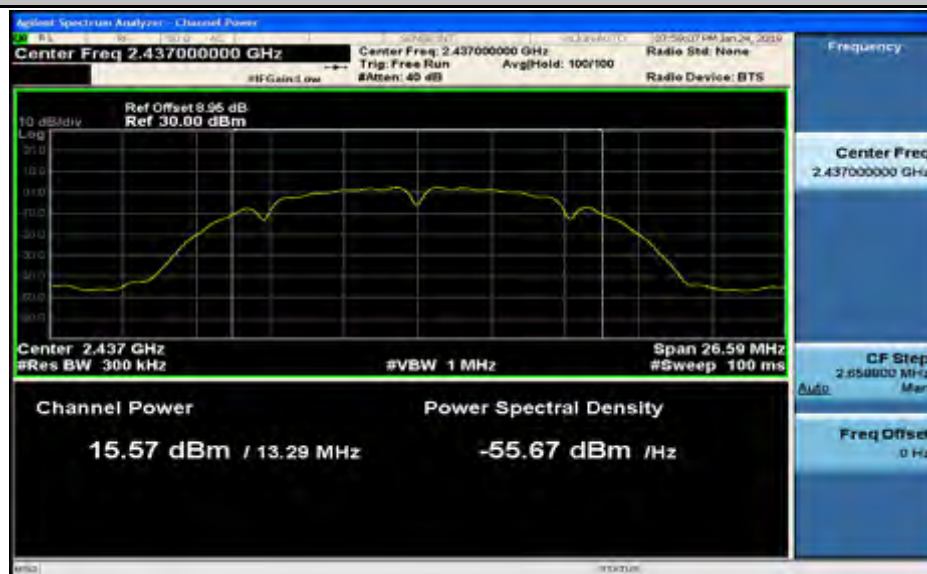
Maximum conducted (average) output power_11N40MIMO_2452_Ant1



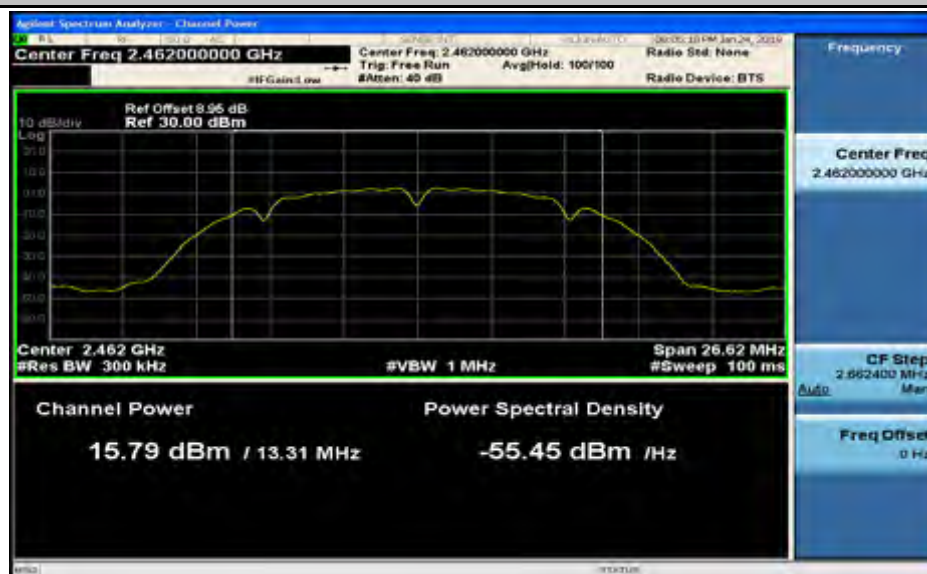
Maximum conducted (average) output power_11B_2412_Ant2



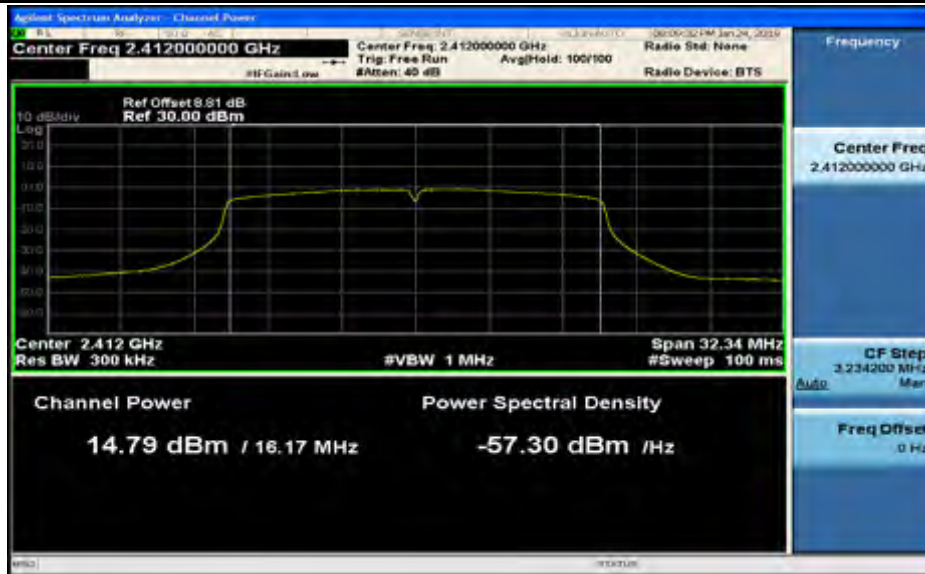
Maximum conducted (average) output power_11B_2437_Ant2



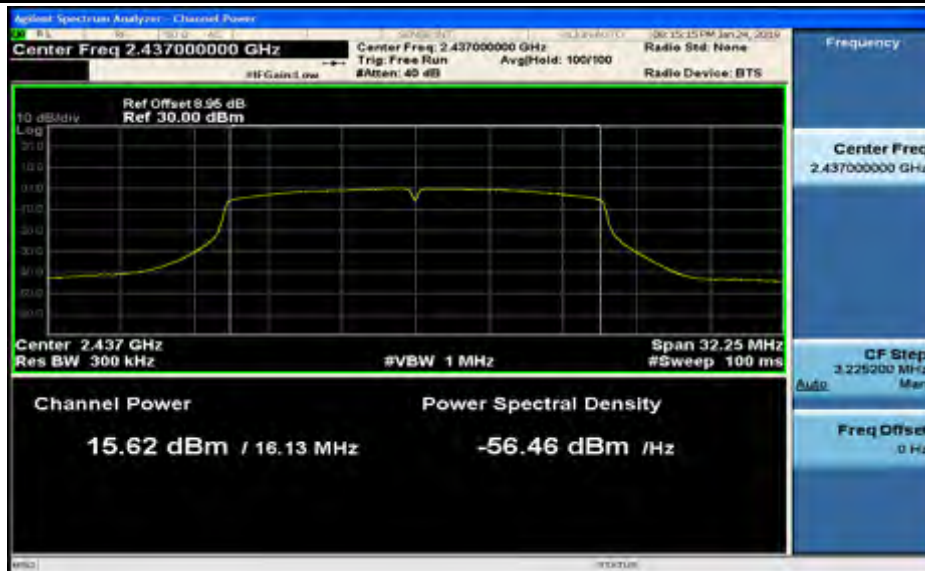
Maximum conducted (average) output power_11B_2462_Ant2



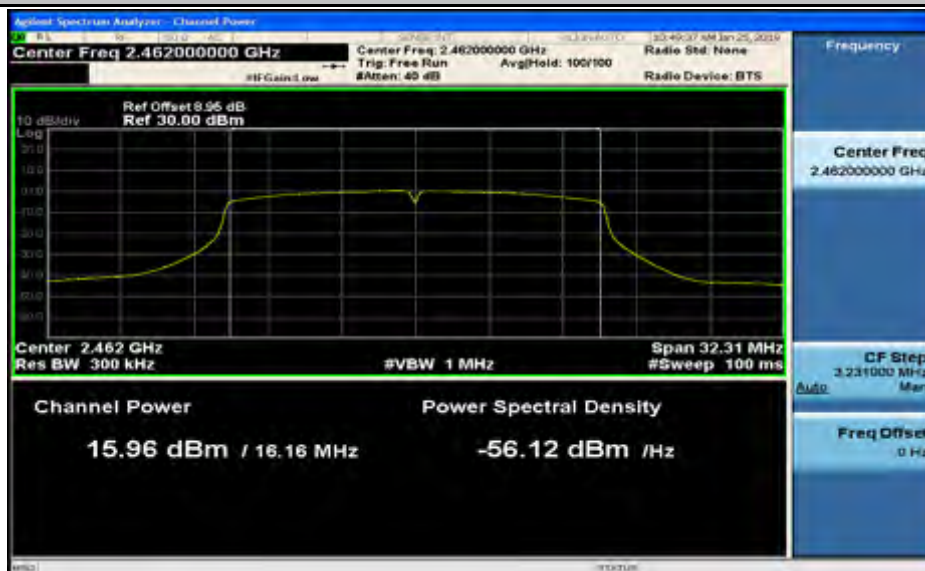
Maximum conducted (average) output power_11G_2412_Ant2



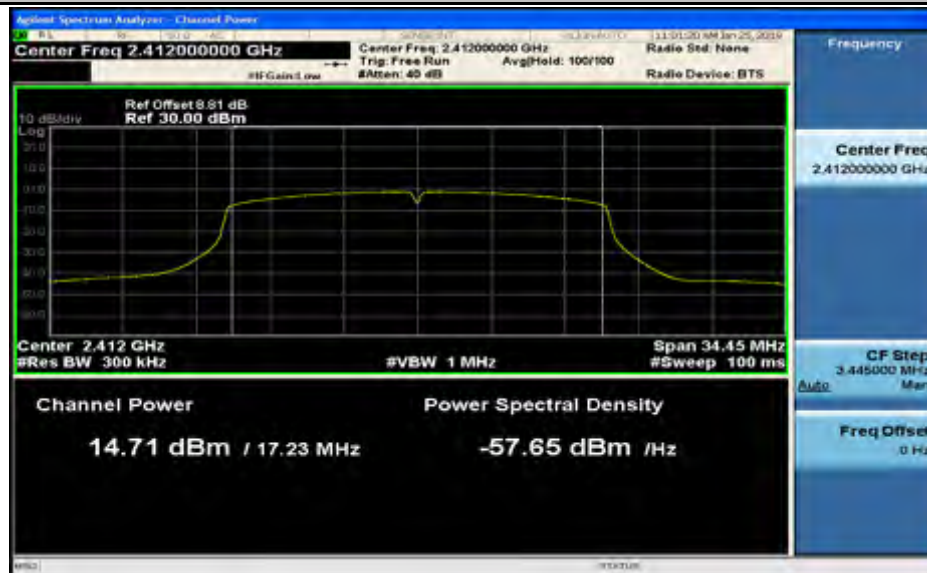
Maximum conducted (average) output power_11G_2437_Ant2



Maximum conducted (average) output power_11G_2462_Ant2



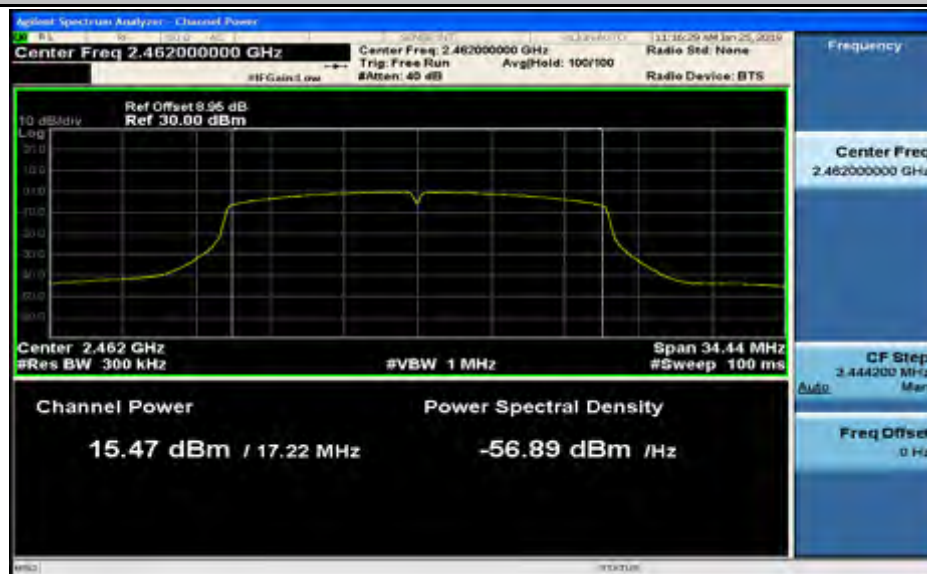
Maximum conducted (average) output power_11N20MIMO_2412_Ant2



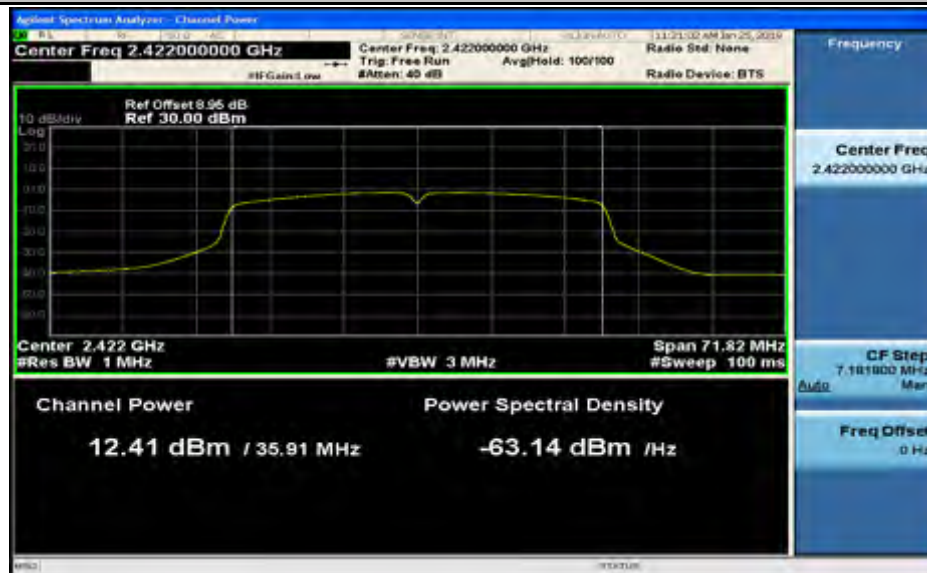
Maximum conducted (average) output power_11N20MIMO_2437_Ant2



Maximum conducted (average) output power_11N20MIMO_2462_Ant2



Maximum conducted (average) output power_11N40MIMO_2422_Ant2



Maximum conducted (average) output power_11N40MIMO_2437_Ant2



Maximum conducted (average) output power_11N40MIMO_2452_Ant2



4.Maximum(average) power spectral density

Test Mode	Test Channel	Level [dBm/3kHz]		10log(1/x) Factor[dB]		PSD[dBm/3kHz]			Limit[dBm/3kHz]	Verdict
		Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	MIMO		
11B	2412	-19.56	-18.03	0.00	0.00	-19.56	-18.03	NA	8.00	PASS
11B	2437	-22.01	-16.98	0.00	0.00	-22.01	-16.98	NA	8.00	PASS
11B	2462	-18.47	-16.41	0.00	0.00	-18.47	-16.41	NA	8.00	PASS
11G	2412	-20.46	-18.56	0.00	0.11	-20.46	-18.45	NA	8.00	PASS
11G	2437	-19.82	-17.93	0.00	0.11	-19.82	-17.82	NA	8.00	PASS
11G	2462	-19.68	-17.83	0.00	0.00	-19.68	-17.83	NA	8.00	PASS
11N20MIMO	2412	-21.09	-18.70	0.00	0.12	-21.09	-18.58	-16.65	7.00	PASS
11N20MIMO	2437	-19.84	-20.29	0.12	0.12	-19.72	-20.17	-16.93	7.00	PASS
11N20MIMO	2462	-19.65	-17.99	0.12	0.12	-19.53	-17.87	-15.61	7.00	PASS
11N40MIMO	2422	-25.32	-24.54	0.18	0.18	-25.14	-24.36	-21.72	7.00	PASS
11N40MIMO	2437	-25.37	-24.05	0.18	0.18	-25.19	-23.87	-21.47	7.00	PASS
11N40MIMO	2452	-24.87	-23.96	0.18	0.18	-24.69	-23.78	-21.20	7.00	PASS

Maximum(average) power spectral density_11B_2412_Ant1



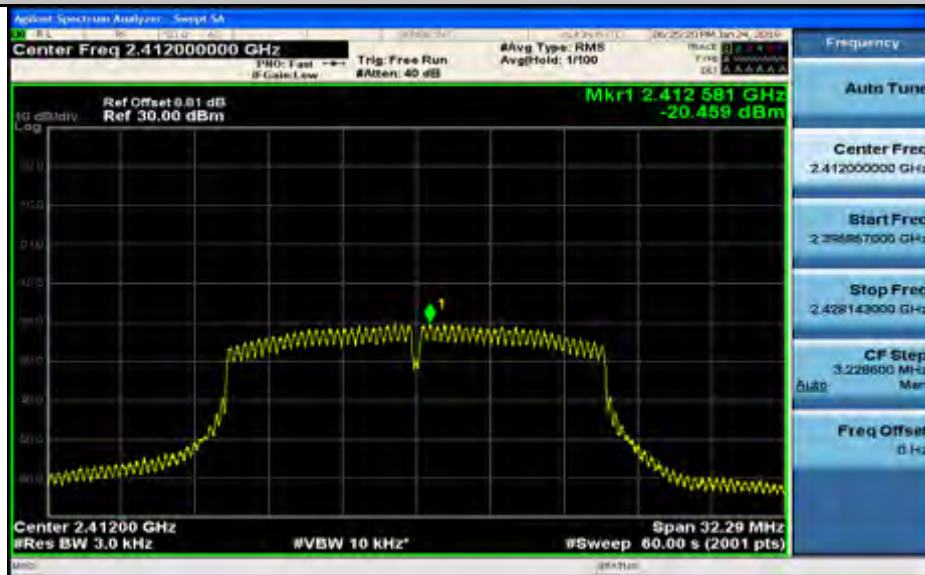
Maximum(average) power spectral density_11B_2437_Ant1



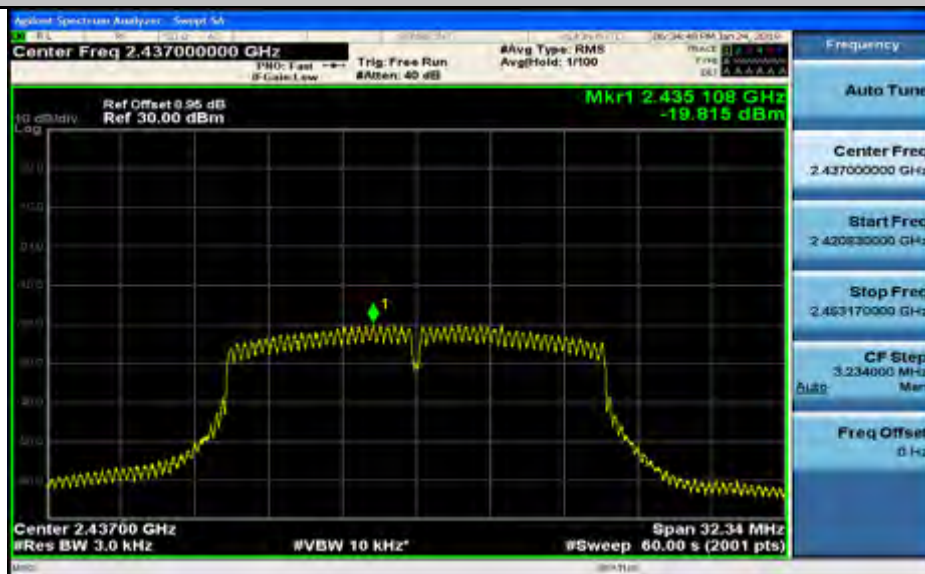
Maximum(average) power spectral density_11B_2462_Ant1



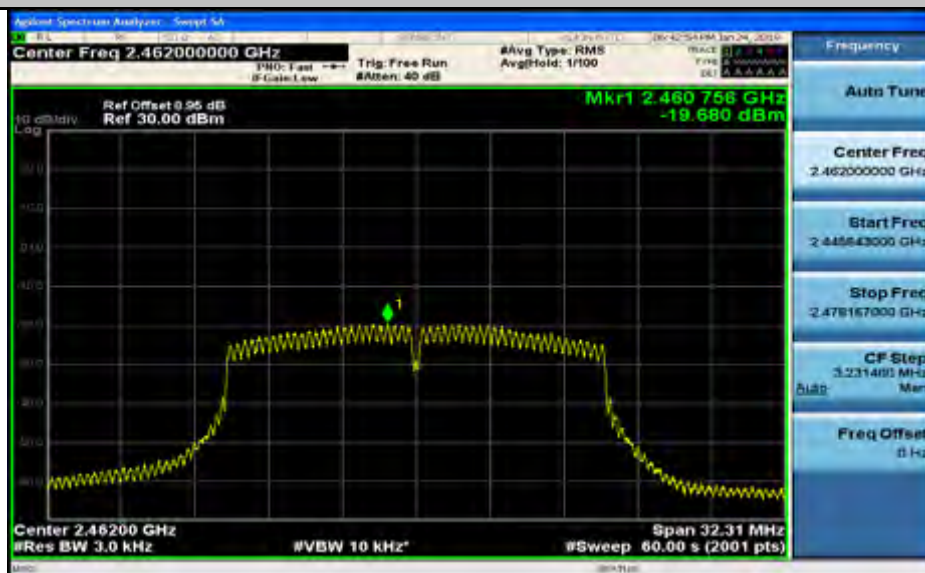
Maximum(average) power spectral density_11G_2412_Ant1



Maximum(average) power spectral density_11G_2437_Ant1



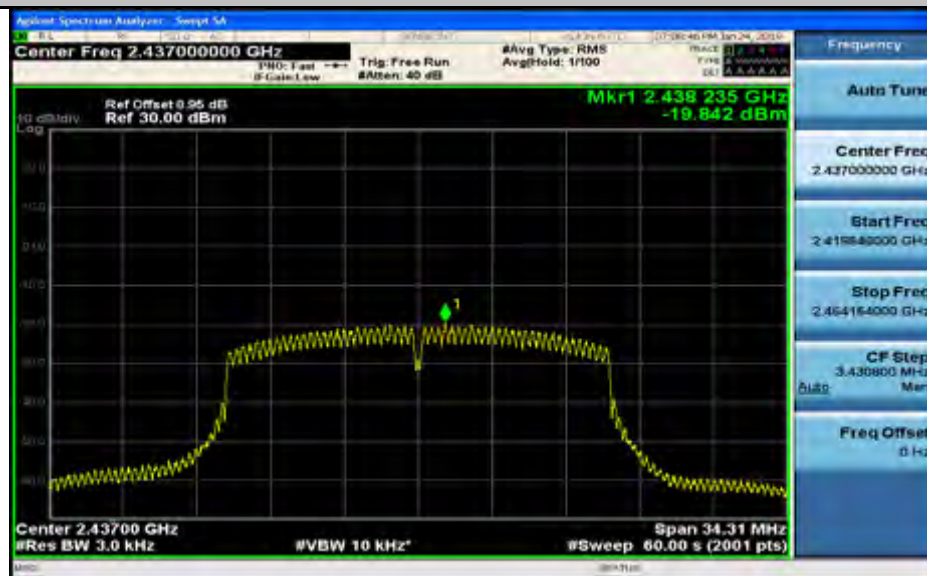
Maximum(average) power spectral density_11G_2462_Ant1



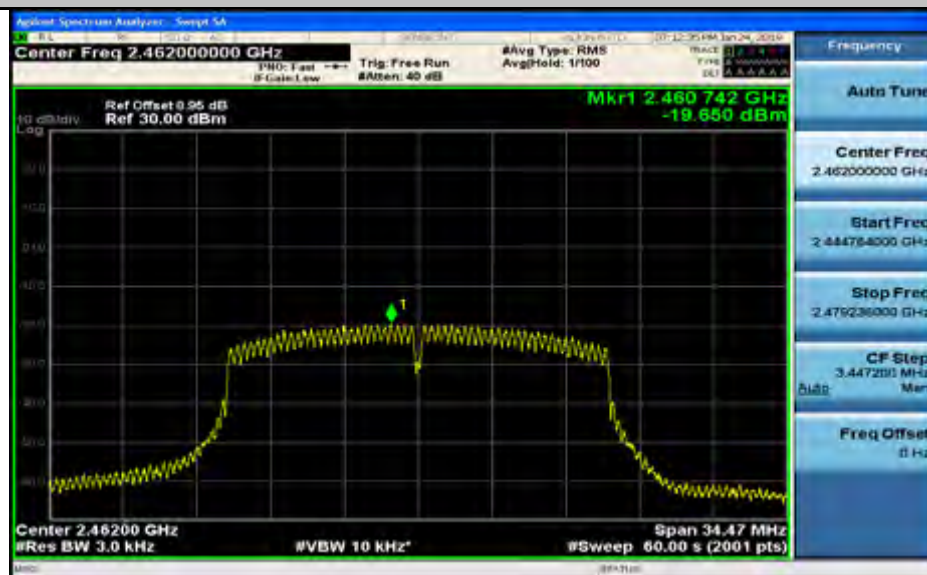
Maximum(average) power spectral density_11N20MIMO_2412_Ant1



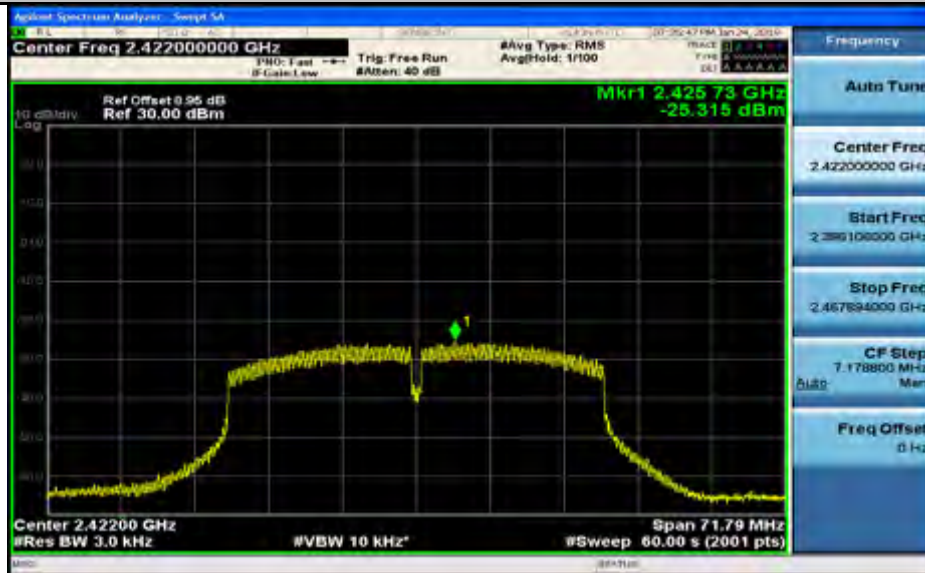
Maximum(average) power spectral density_11N20MIMO_2437_Ant1



Maximum(average) power spectral density_11N20MIMO_2462_Ant1



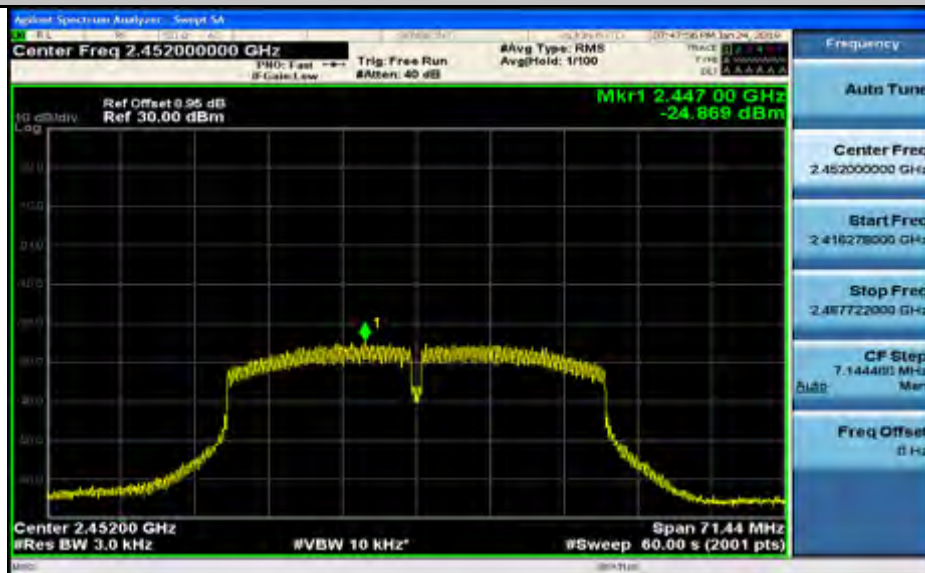
Maximum(average) power spectral density_11N40MIMO_2422_Ant1



Maximum(average) power spectral density_11N40MIMO_2437_Ant1



Maximum(average) power spectral density_11N40MIMO_2452_Ant1



Maximum(average) power spectral density_11B_2412_Ant2



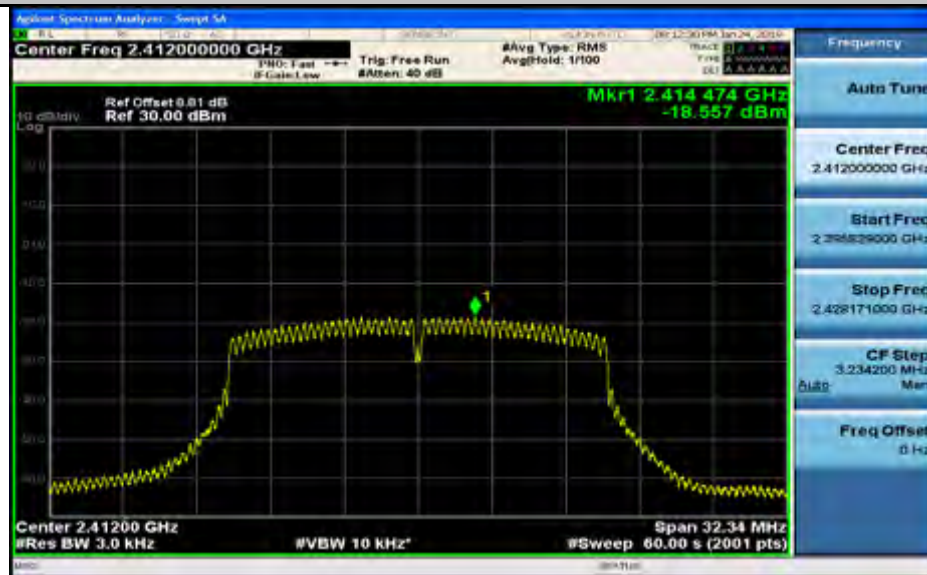
Maximum(average) power spectral density_11B_2437_Ant2



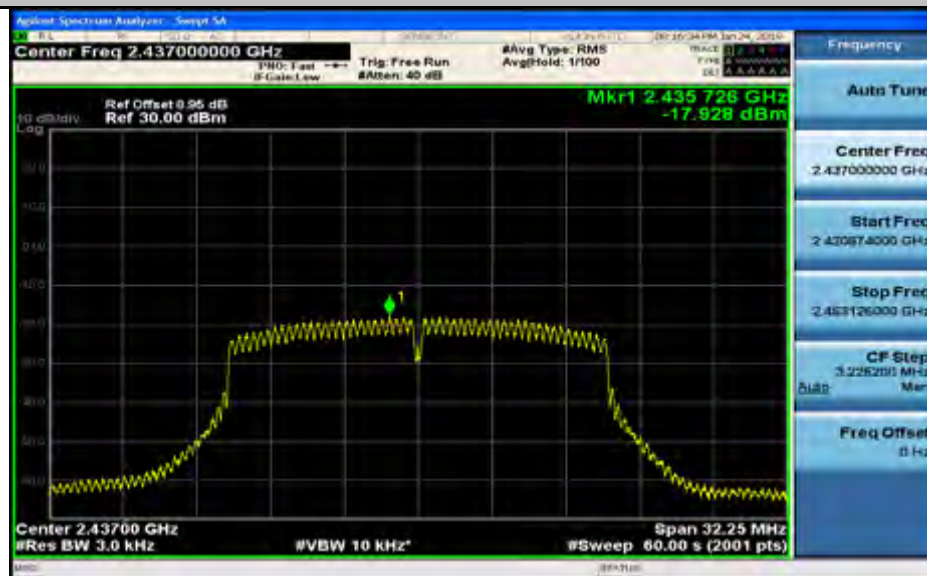
Maximum(average) power spectral density_11B_2462_Ant2



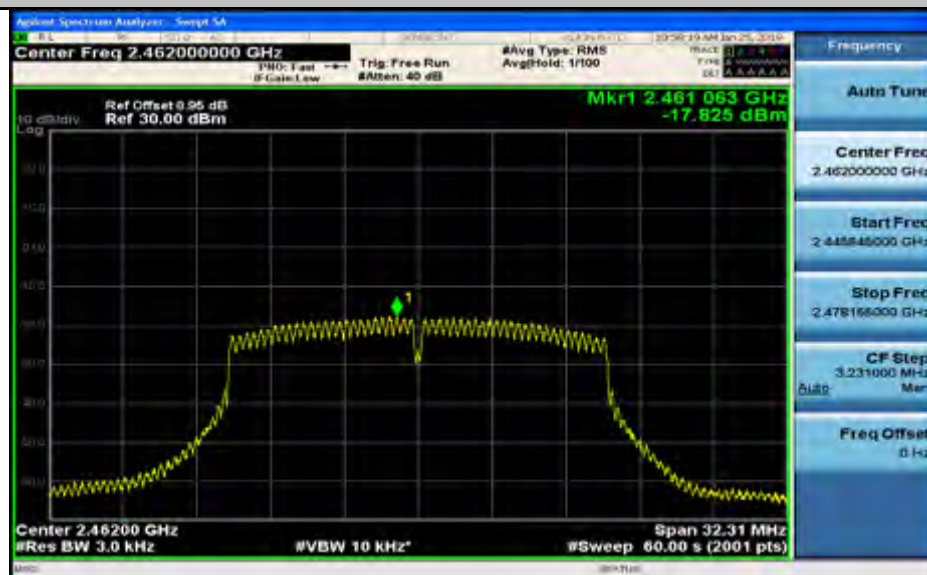
Maximum(average) power spectral density_11G_2412_Ant2



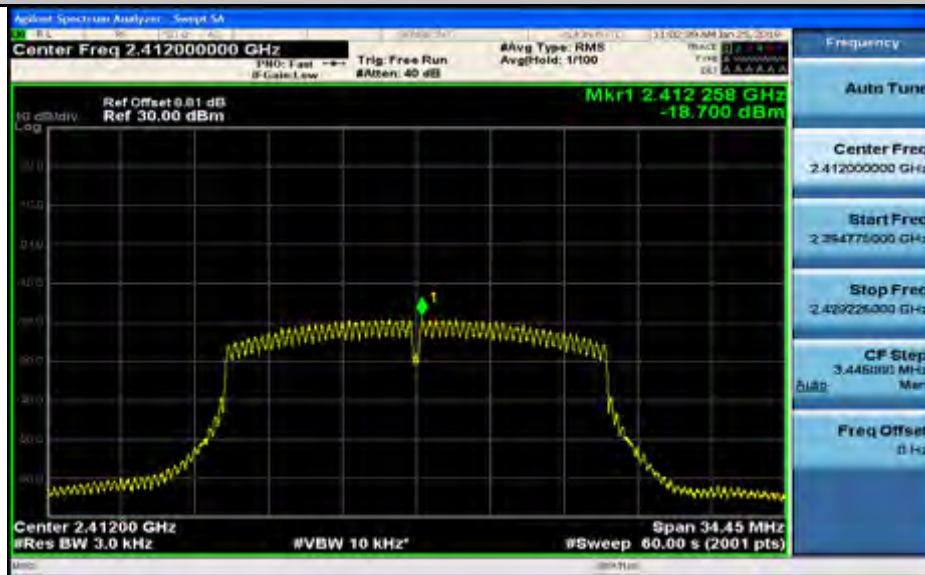
Maximum(average) power spectral density_11G_2437_Ant2



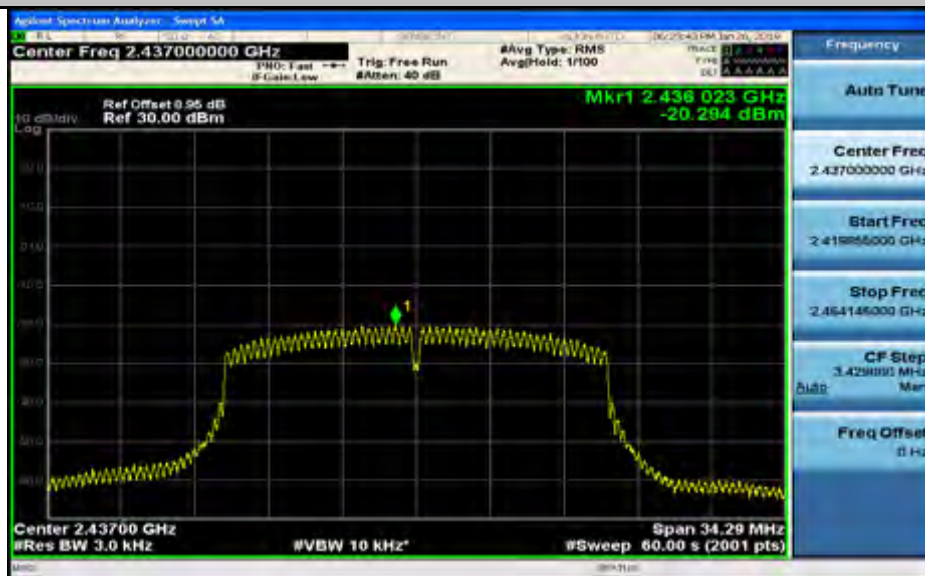
Maximum(average) power spectral density_11G_2462_Ant2



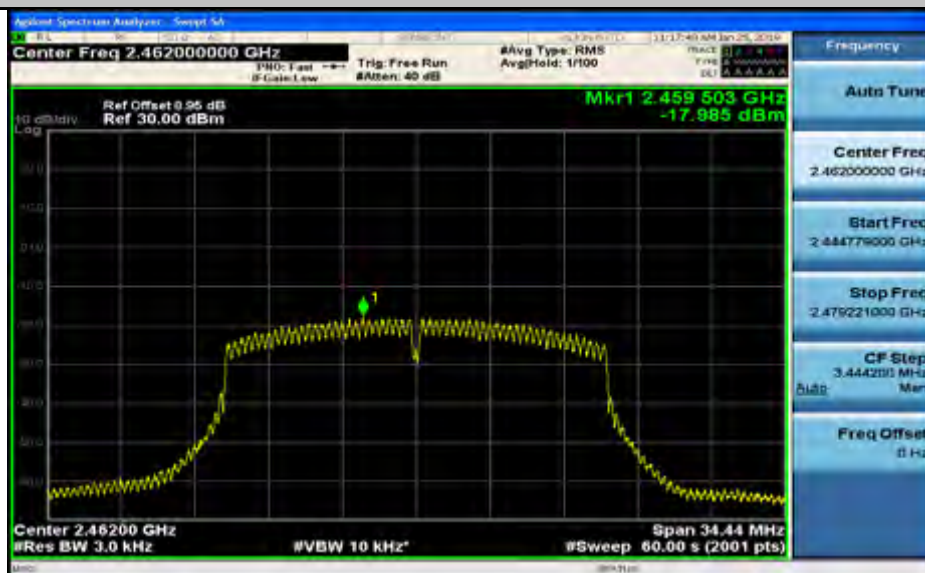
Maximum(average) power spectral density_11N20MIMO_2412_Ant2



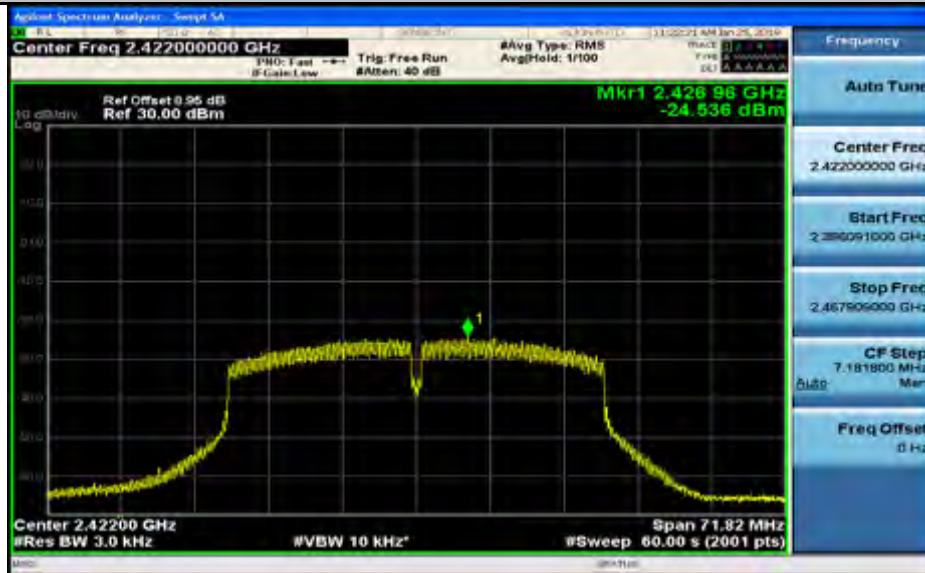
Maximum(average) power spectral density_11N20MIMO_2437_Ant2



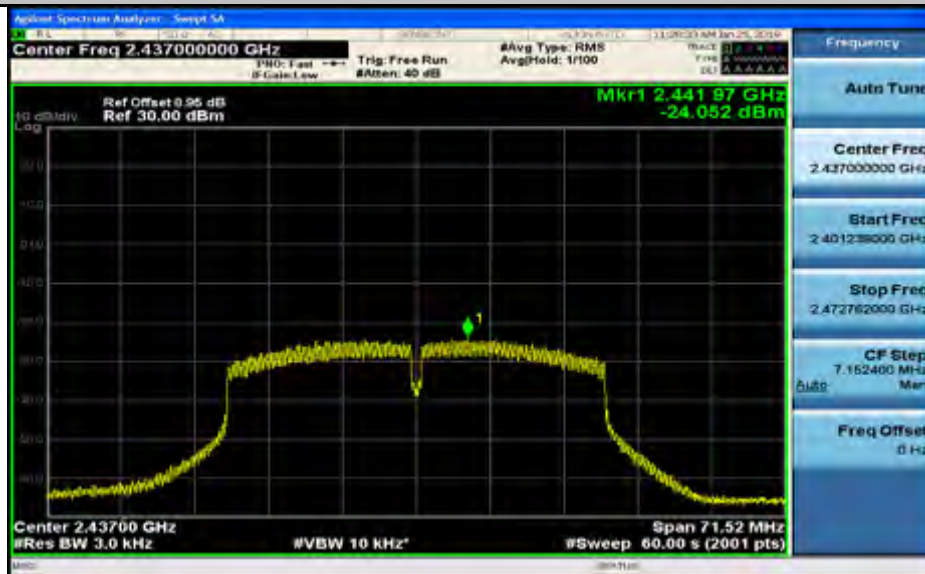
Maximum(average) power spectral density_11N20MIMO_2462_Ant2



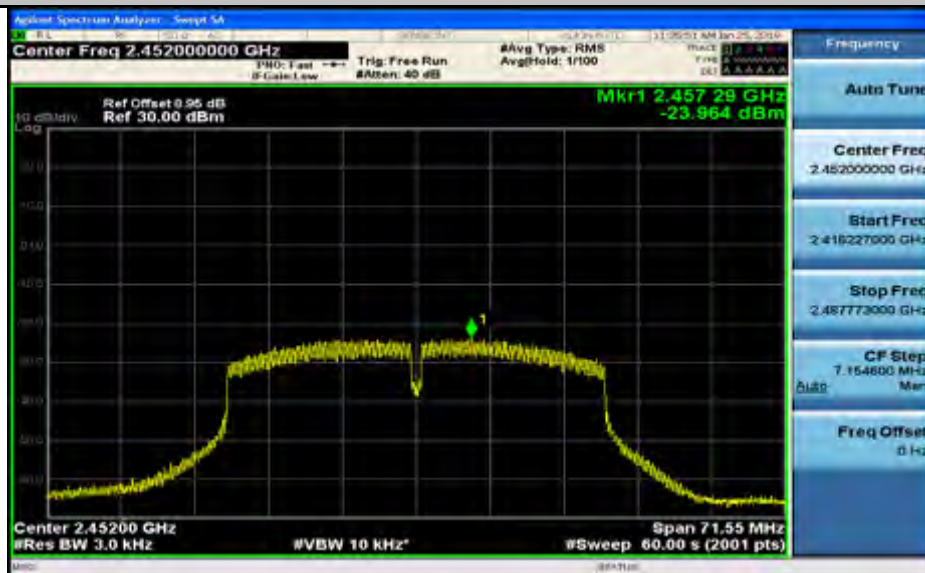
Maximum(average) power spectral density_11N40MIMO_2422_Ant2



Maximum(average) power spectral density_11N40MIMO_2437_Ant2



Maximum(average) power spectral density_11N40MIMO_2452_Ant2



5.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Carrier Power[dBm]		Max. Spurious Level [dBm]		Limit [dBm]		Verdict
		Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11B	2412	3.59	5.10	-38.76	-41.28	-26.41	-24.90	PASS
11B	2462	5.83	6.99	-52.44	-52.85	-24.17	-23.01	PASS
11G	2412	0.80	5.48	-31.65	-33.38	-29.20	-24.52	PASS
11G	2462	1.06	6.47	-48.33	-50.74	-28.94	-23.54	PASS
11N20SISO	2412	0.33	5.08	-30.83	-34.18	-29.67	-24.92	PASS
11N20SISO	2462	5.33	6.13	-45.89	-49.45	-24.67	-23.87	PASS
11N40SISO	2422	-1.45	-0.16	-32.84	-31.65	-31.45	-30.16	PASS
11N40SISO	2452	-0.78	0.67	-39.67	-40.67	-30.78	-29.34	PASS

Band-edge for RF Conducted Emissions_11B_2412_Ant1



Band-edge for RF Conducted Emissions_11B_2462_Ant1



Band-edge for RF Conducted Emissions_11G_2412_Ant1



Band-edge for RF Conducted Emissions_11G_2462_Ant1



Band-edge for RF Conducted Emissions_11N20SISO_2412_Ant1



Band-edge for RF Conducted Emissions_11N20SISO_2462_Ant1



Band-edge for RF Conducted Emissions_11N40SISO_2422_Ant1



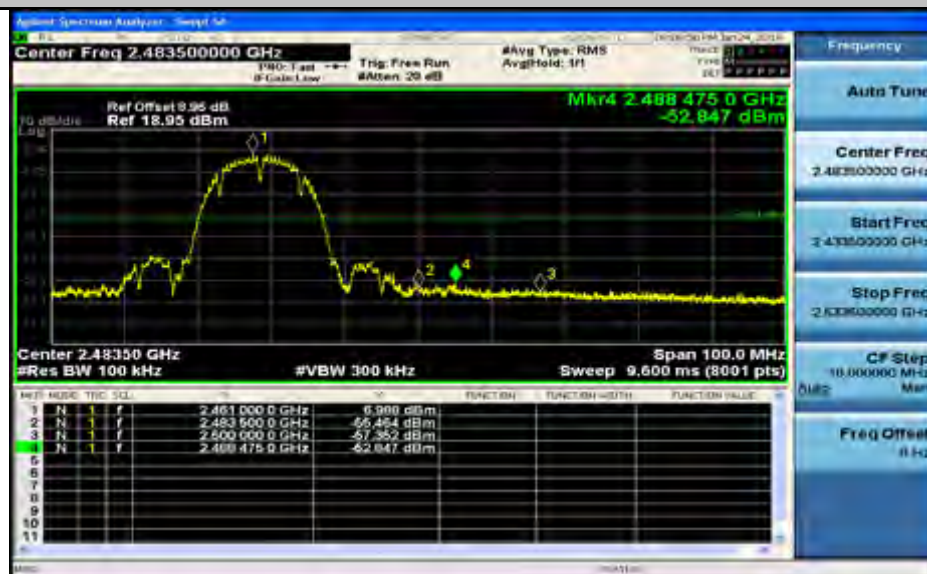
Band-edge for RF Conducted Emissions_11N40SISO_2452_Ant1



Band-edge for RF Conducted Emissions_11B_2412_Ant2



Band-edge for RF Conducted Emissions_11B_2462_Ant2



Band-edge for RF Conducted Emissions_11G_2412_Ant2



Band-edge for RF Conducted Emissions_11G_2462_Ant2



Band-edge for RF Conducted Emissions 11N20SISO 2412 Ant2



Band-edge for RF Conducted Emissions_11N20SISO_2462_Ant2



Band-edge for RF Conducted Emissions 11N40SISO 2422 Ant2



Band-edge for RF Conducted Emissions_11N40ISO_2452_Ant2



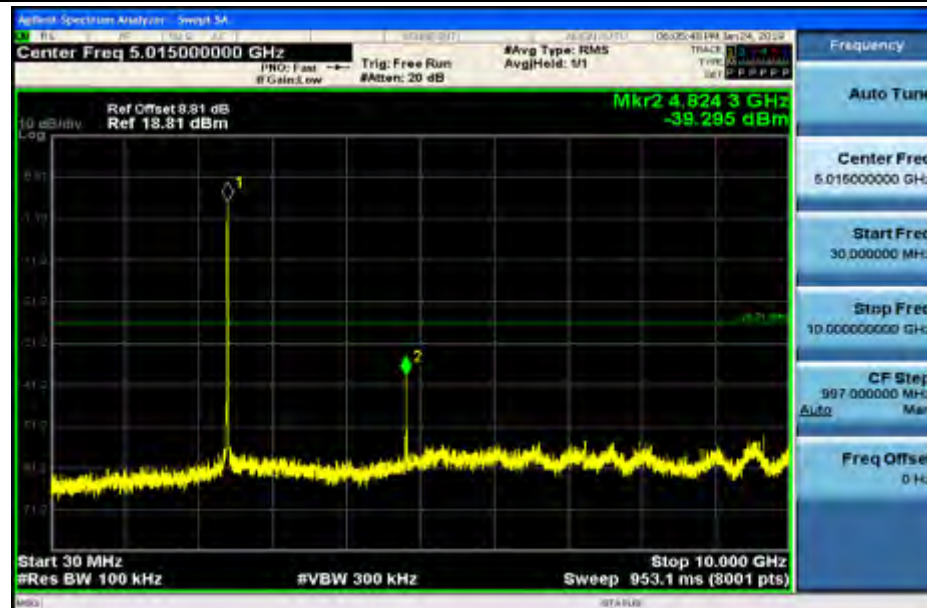
6.RF Conducted Spurious Emissions

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]		Max. Level [dBm]		Limit [dBm]		Verdict
						Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11B	2412	30	10000	100	300	3.69	5.11	-39.30	-39.65	<-26.31	<-24.89	PASS
11B	2412	10000	26000	100	300	3.688	5.107	-43.921	-44.858	<-26.312	<-24.893	PASS
11B	2437	30	10000	100	300	1.28	6.29	-45.15	-40.75	<-28.72	<-23.71	PASS
11B	2437	10000	26000	100	300	1.284	6.294	-44.173	-43.824	<-28.716	<-23.706	PASS
11B	2462	30	10000	100	300	5.74	6.95	-38.95	-41.79	<-24.26	<-23.05	PASS
11B	2462	10000	26000	100	300	5.739	6.946	-44.111	-44.030	<-24.261	<-23.054	PASS
11G	2412	30	10000	100	300	0.32	4.83	-46.19	-47.67	<-29.68	<-25.17	PASS
11G	2412	10000	26000	100	300	0.321	4.826	-44.565	-44.026	<-29.679	<-25.174	PASS
11G	2437	30	10000	100	300	1.02	-0.37	-49.75	-51.76	<-28.98	<-30.37	PASS
11G	2437	10000	26000	100	300	1.023	-0.374	-44.739	-43.575	<-28.977	<-30.374	PASS
11G	2462	30	10000	100	300	2.13	6.10	-49.24	-48.00	<-27.87	<-23.90	PASS
11G	2462	10000	26000	100	300	2.131	6.097	-43.761	-44.382	<-27.869	<-23.903	PASS
11N20SISO	2412	30	10000	100	300	0.20	5.01	-48.77	-48.33	<-29.80	<-24.99	PASS
11N20SISO	2412	10000	26000	100	300	0.202	5.009	-44.203	-45.136	<-29.798	<-24.991	PASS
11N20SISO	2437	30	10000	100	300	4.49	5.78	-49.20	-53.61	<-25.51	<-33.75	PASS
11N20SISO	2437	10000	26000	100	300	4.493	5.782	-44.368	-47.35	<-25.507	<-24.22	PASS
11N20SISO	2462	30	10000	100	300	5.61	6.04	-49.62	-44.543	<-24.39	<-24.218	PASS
11N20SISO	2462	10000	26000	100	300	5.606	6.035	-44.250	-44.458	<-24.394	<-23.965	PASS
11N40SISO	2422	30	10000	100	300	-1.69	-0.35	-53.87	-52.11	<-31.69	<-30.35	PASS
11N40SISO	2422	10000	26000	100	300	-1.693	-0.348	-44.183	-44.572	<-31.693	<-30.348	PASS
11N40SISO	2437	30	10000	100	300	-0.83	0.29	-52.43	-53.00	<-30.83	<-29.71	PASS
11N40SISO	2437	10000	26000	100	300	-0.83	0.289	-44.490	-43.942	<-30.83	<-29.711	PASS



11N40SISO	2452	30	10000	100	300	-0.85	0.71	-52.85	-53.75	<- 30.85	<- 29.29	PASS
11N40SISO	2452	10000	26000	100	300	-0.845	0.714	-44.064	-43.789	<- 30.845	<- 29.286	PASS

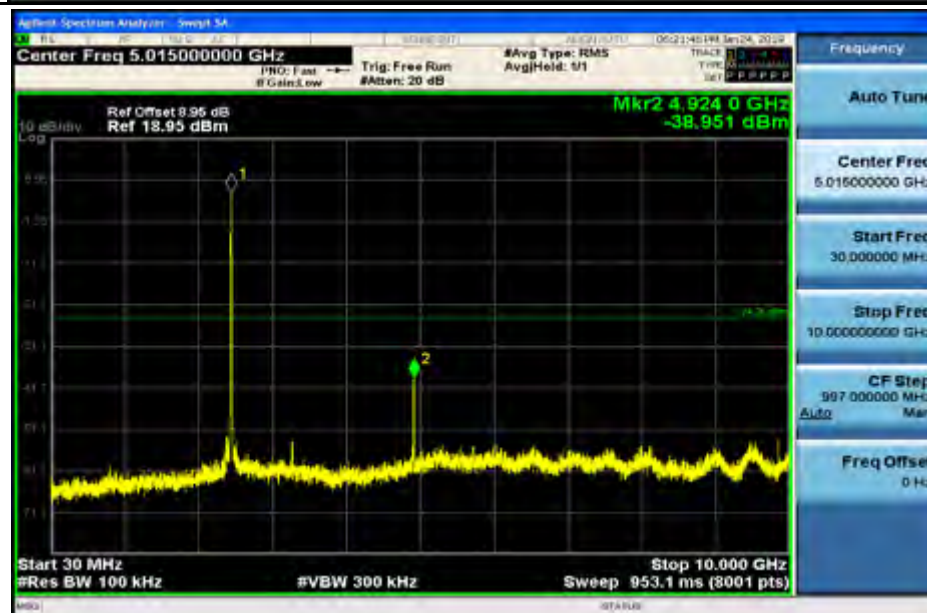
RF Conducted Spurious Emissions_11B_2412_Ant1



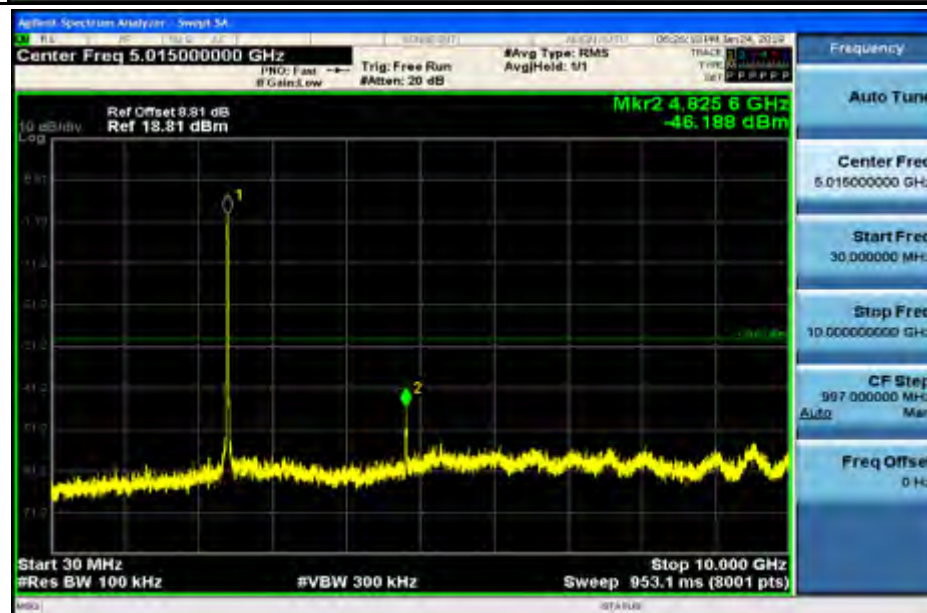
RF Conducted Spurious Emissions_11B_2437_Ant1



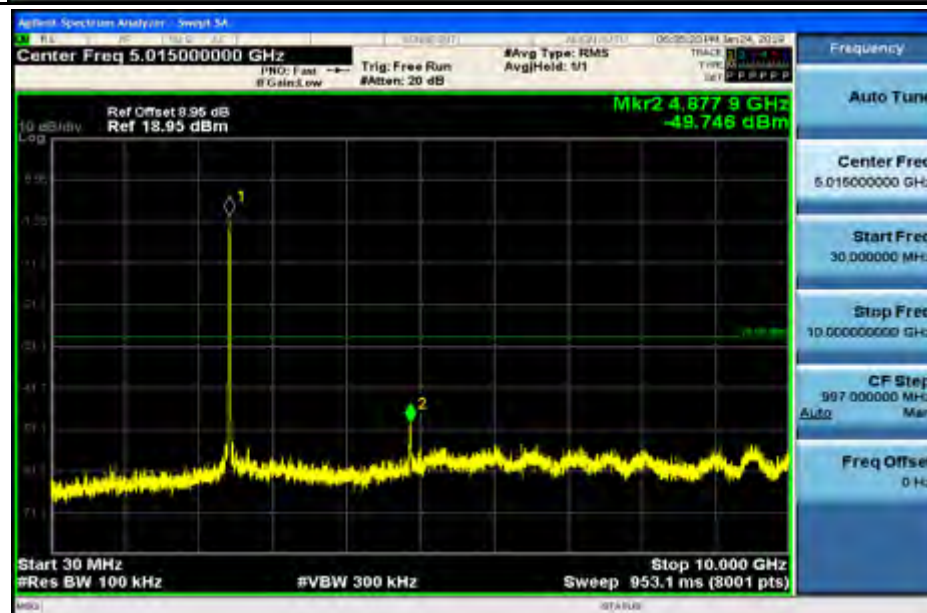
RF Conducted Spurious Emissions_11B_2462_Ant1



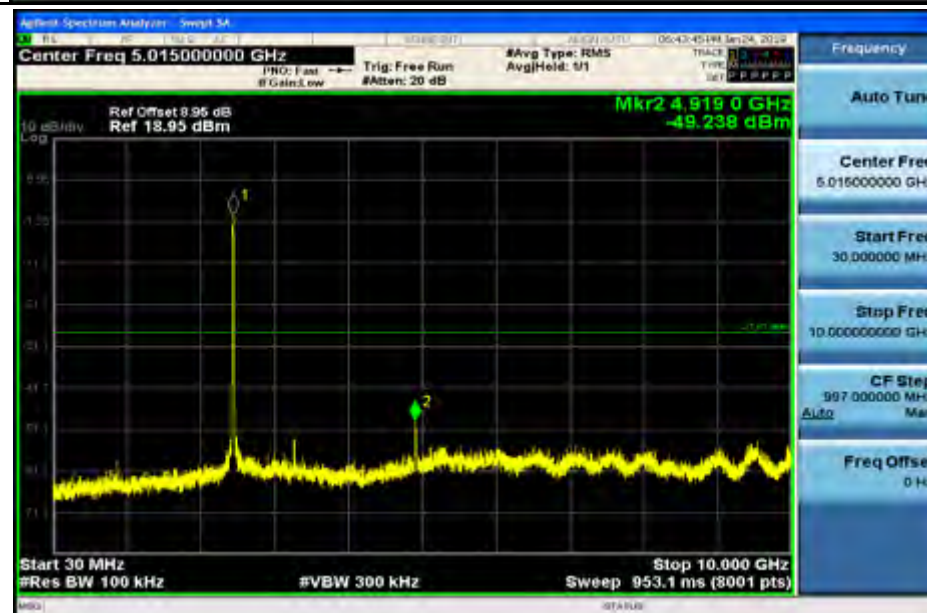
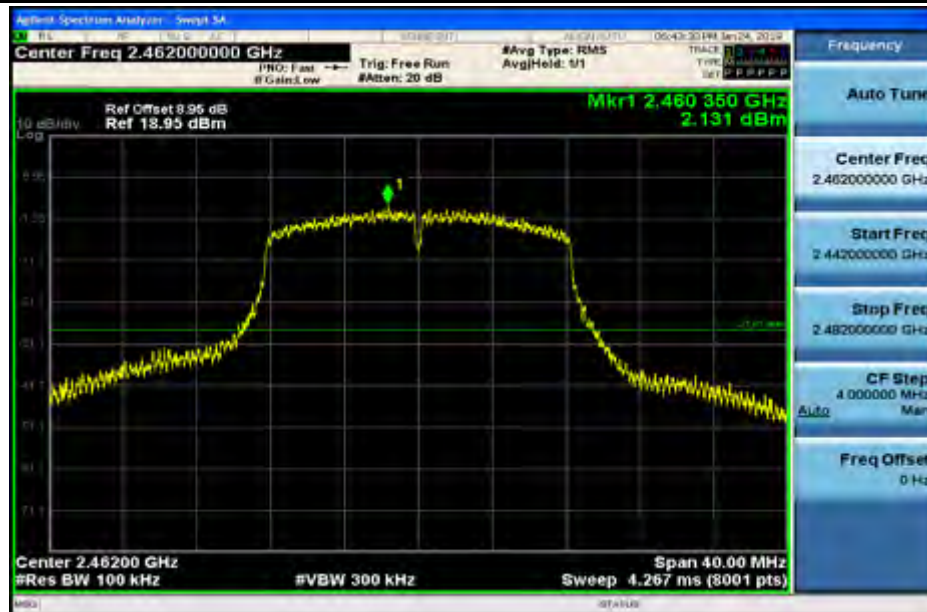
RF Conducted Spurious Emissions_11G_2412_Ant1



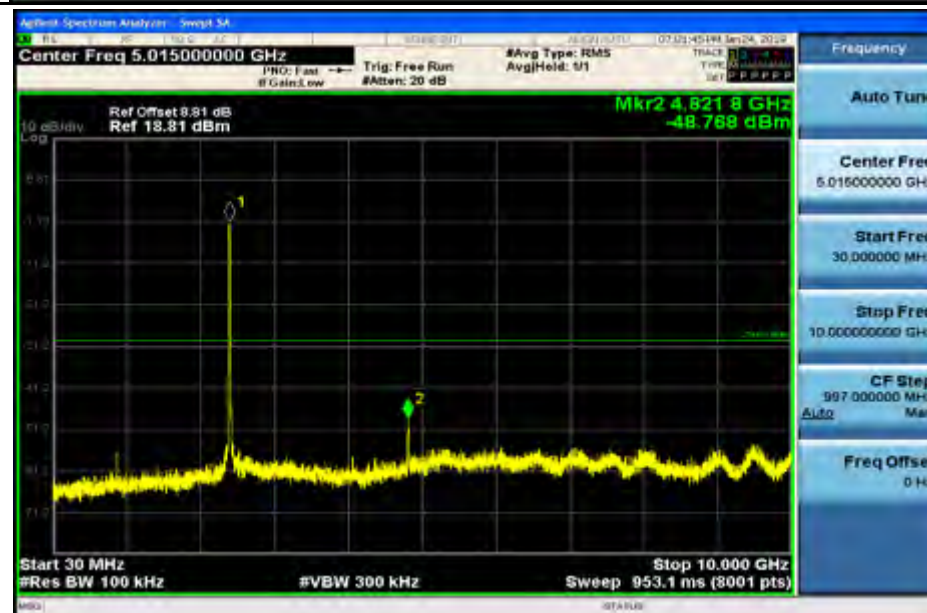
RF Conducted Spurious Emissions_11G_2437_Ant1



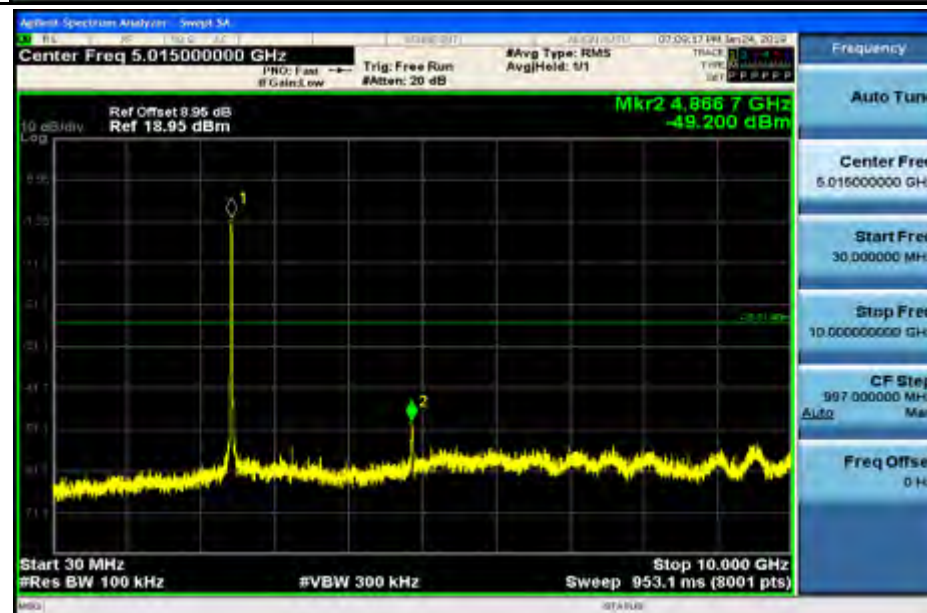
RF Conducted Spurious Emissions_11G_2462_Ant1



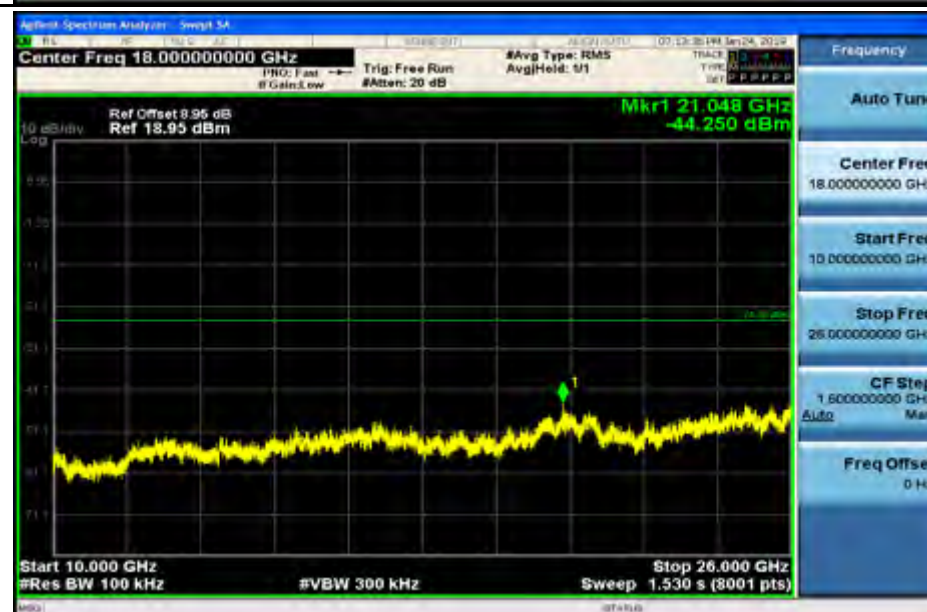
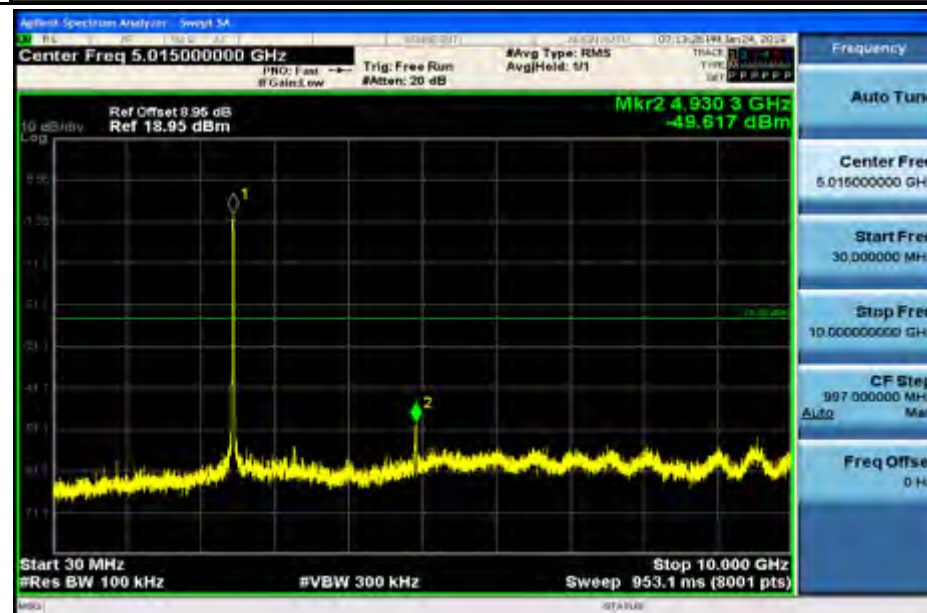
RF Conducted Spurious Emissions_11N20SISO_2412_Ant1



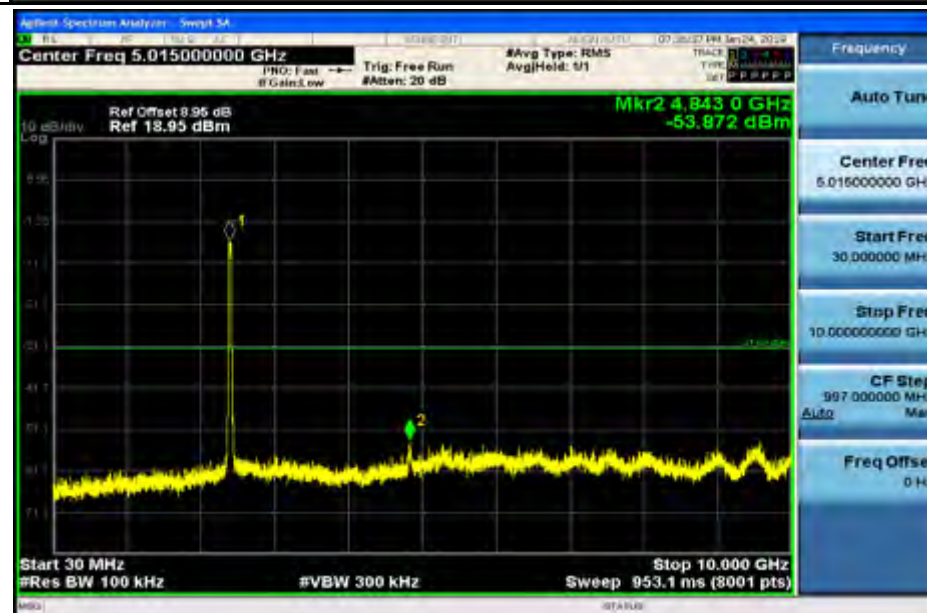
RF Conducted Spurious Emissions_11N20SISO_2437_Ant1



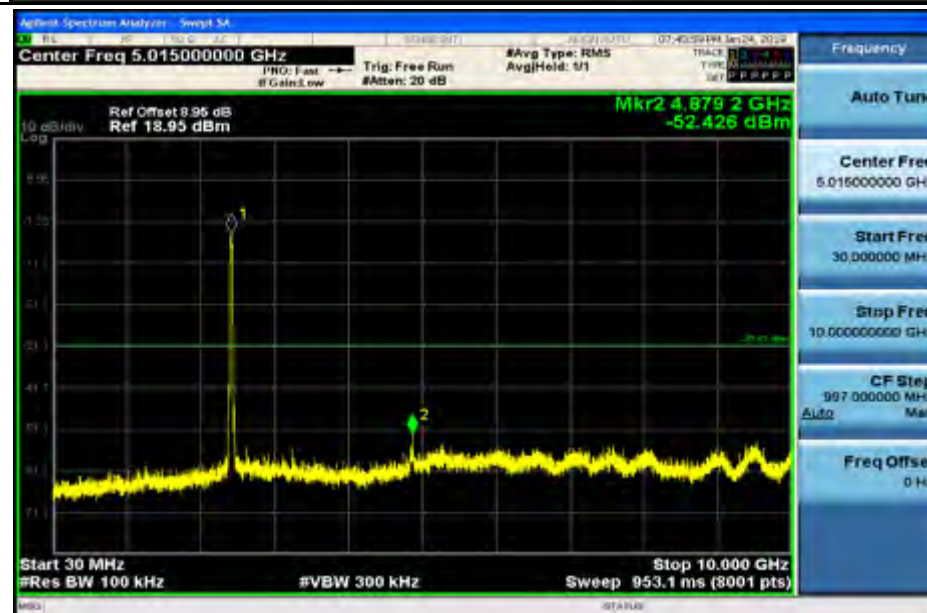
RF Conducted Spurious Emissions_11N20SISO_2462_Ant1



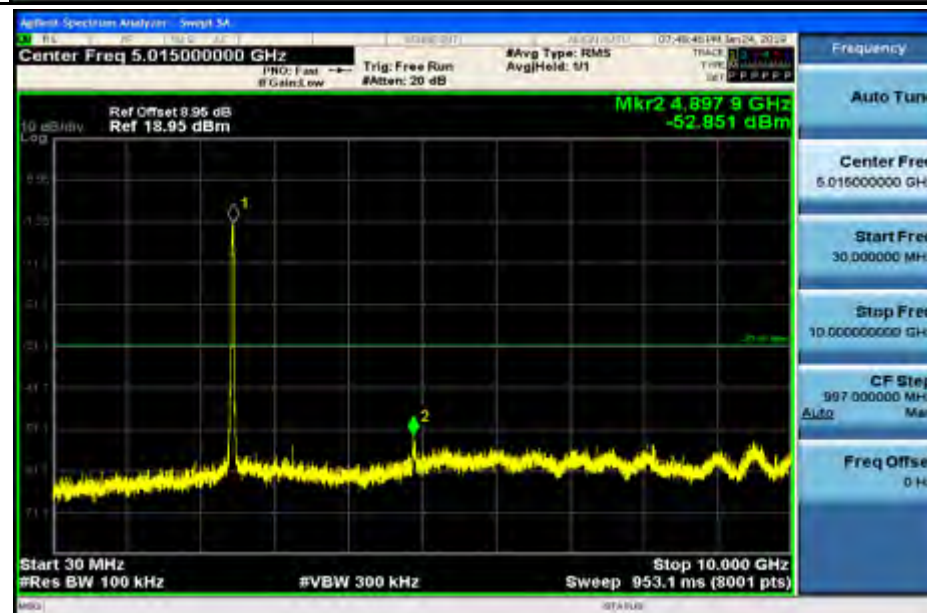
RF Conducted Spurious Emissions_11N40SISO_2422_Ant1



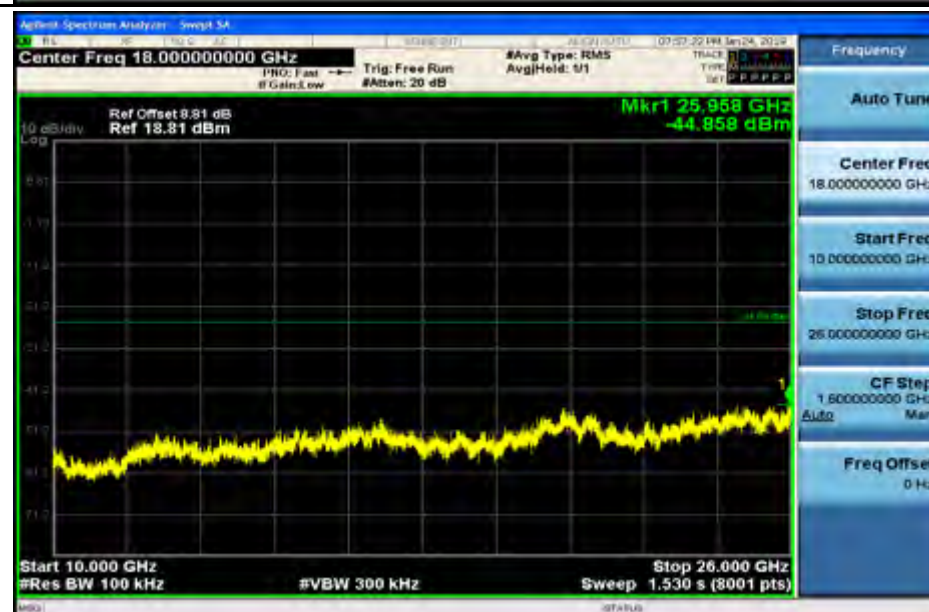
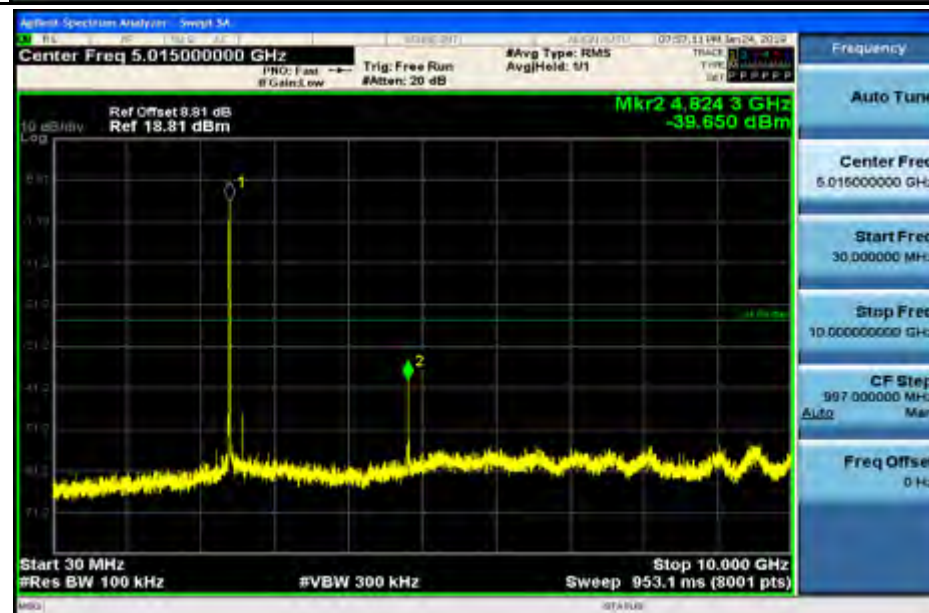
RF Conducted Spurious Emissions_11N40SISO_2437_Ant1



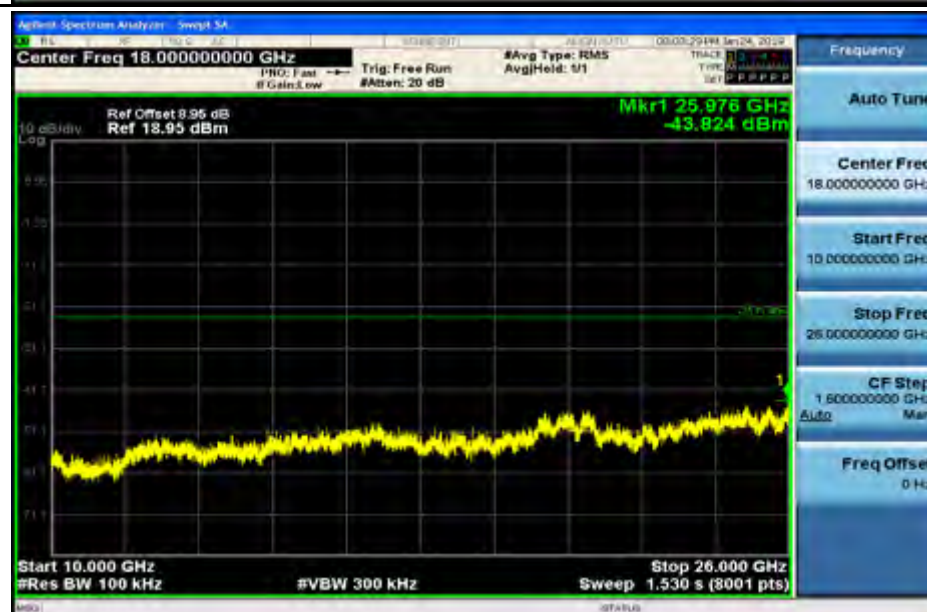
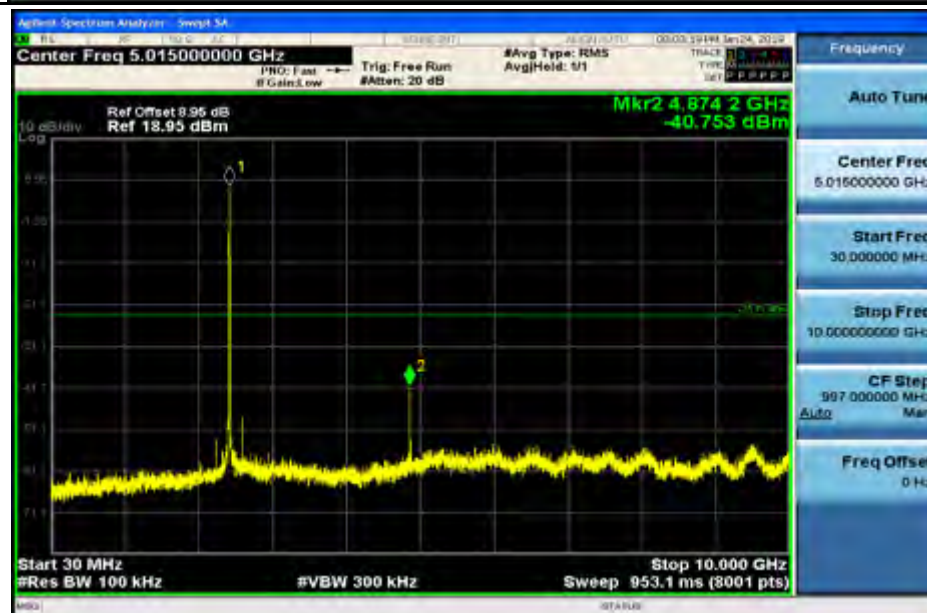
RF Conducted Spurious Emissions_11N40SISO_2452_Ant1



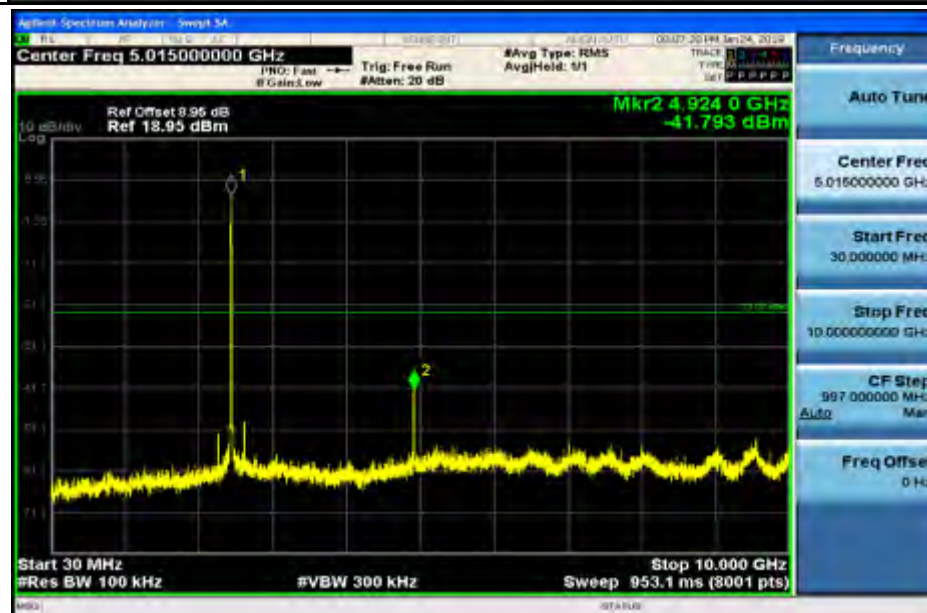
RF Conducted Spurious Emissions_11B_2412_Ant2



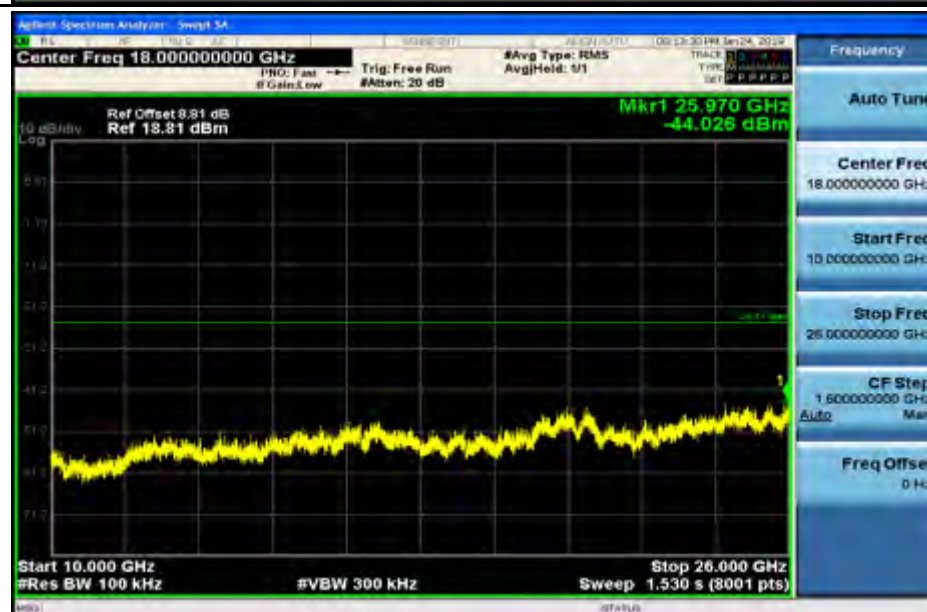
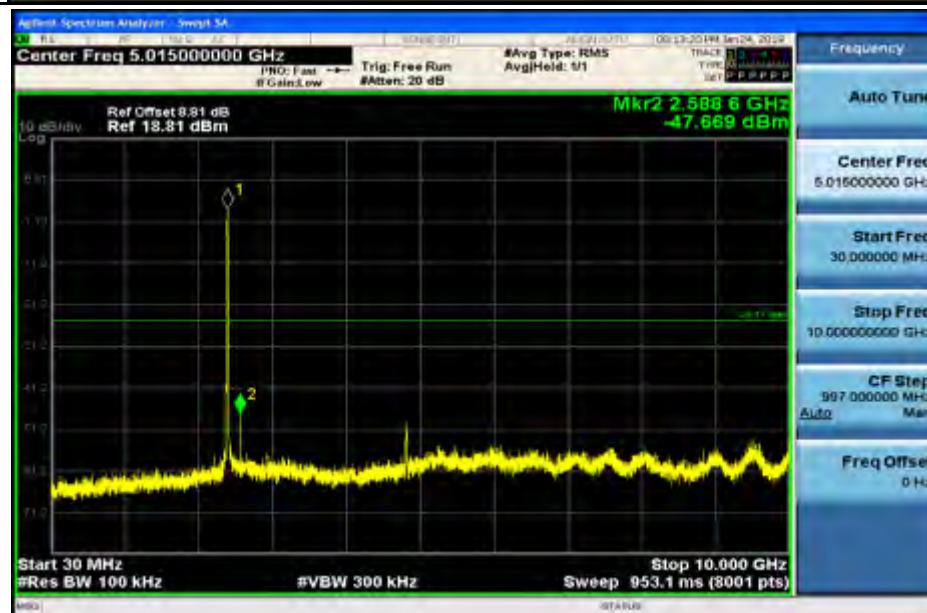
RF Conducted Spurious Emissions_11B_2437_Ant2



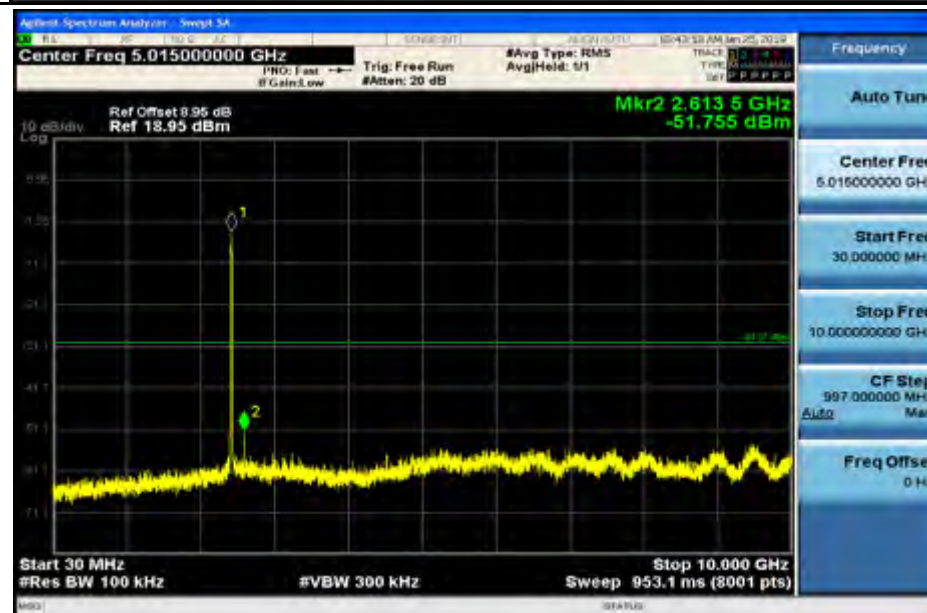
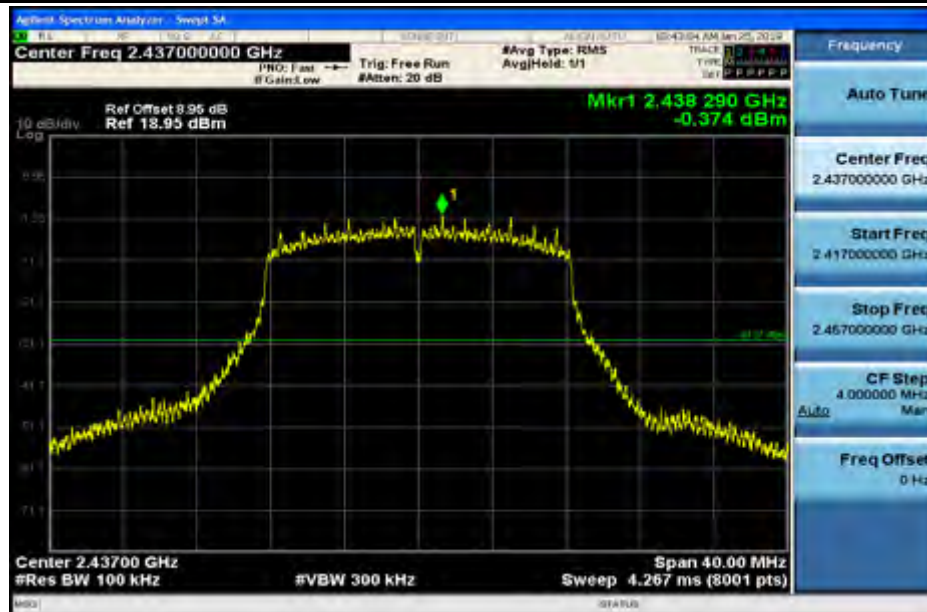
RF Conducted Spurious Emissions_11B_2462_Ant2



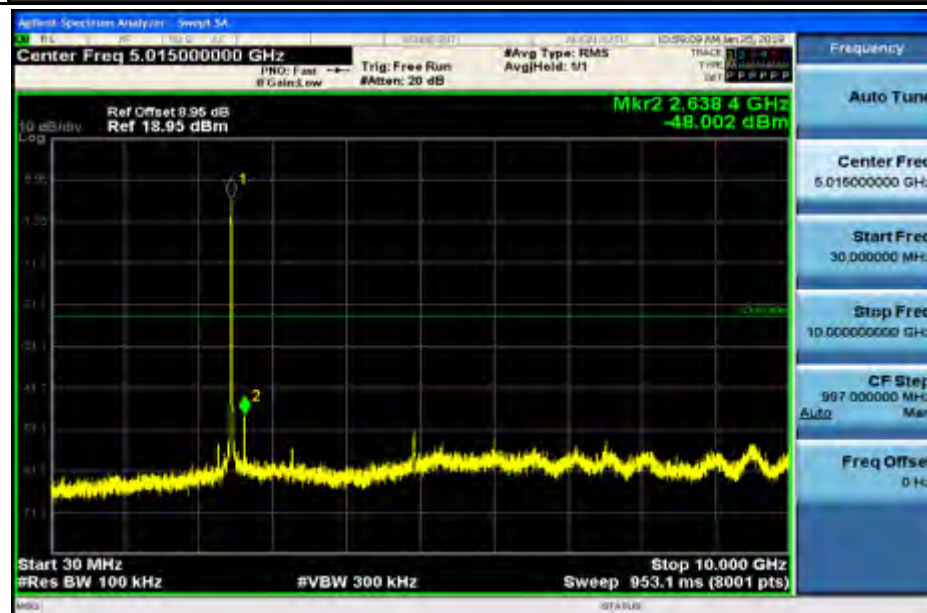
RF Conducted Spurious Emissions_11G_2412_Ant2



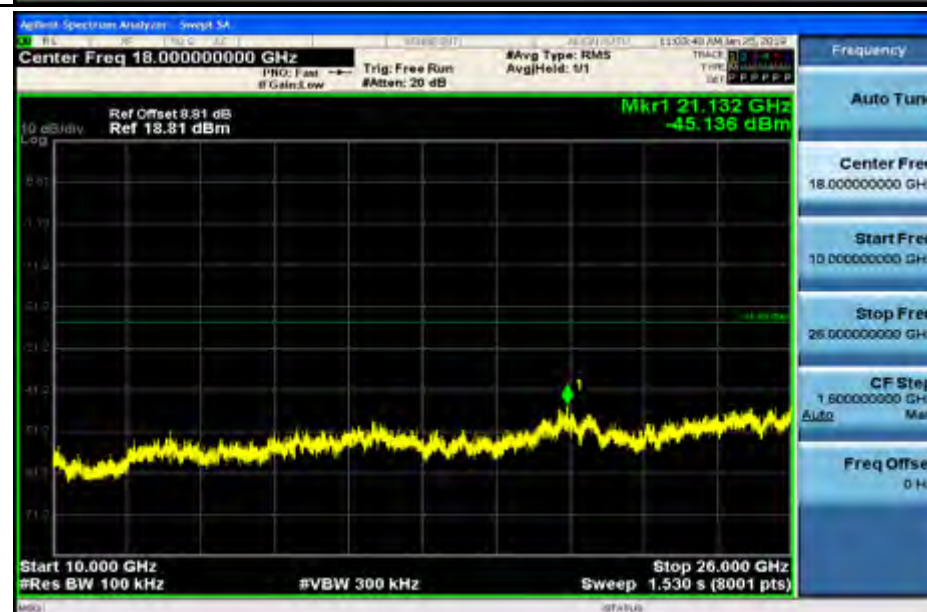
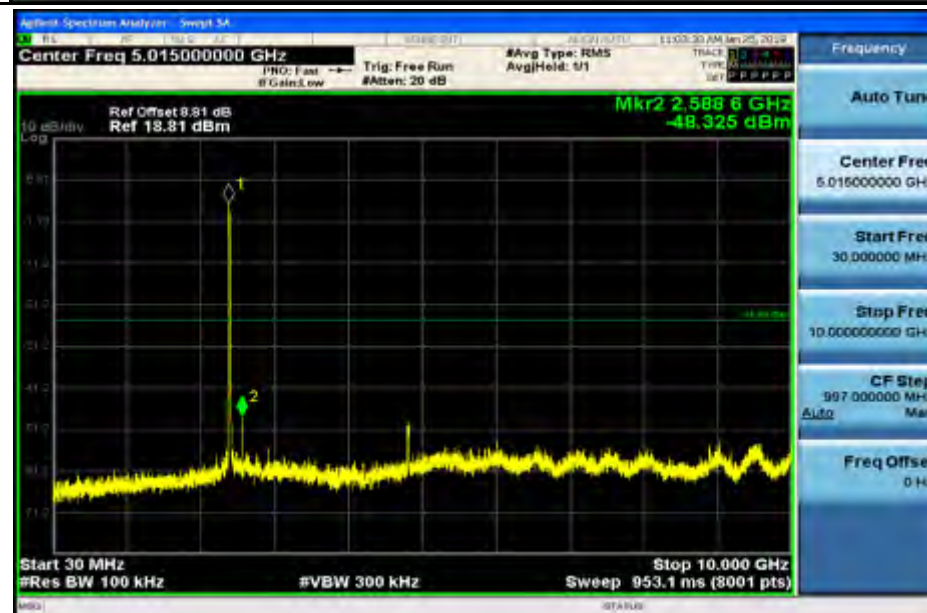
RF Conducted Spurious Emissions_11G_2437_Ant2



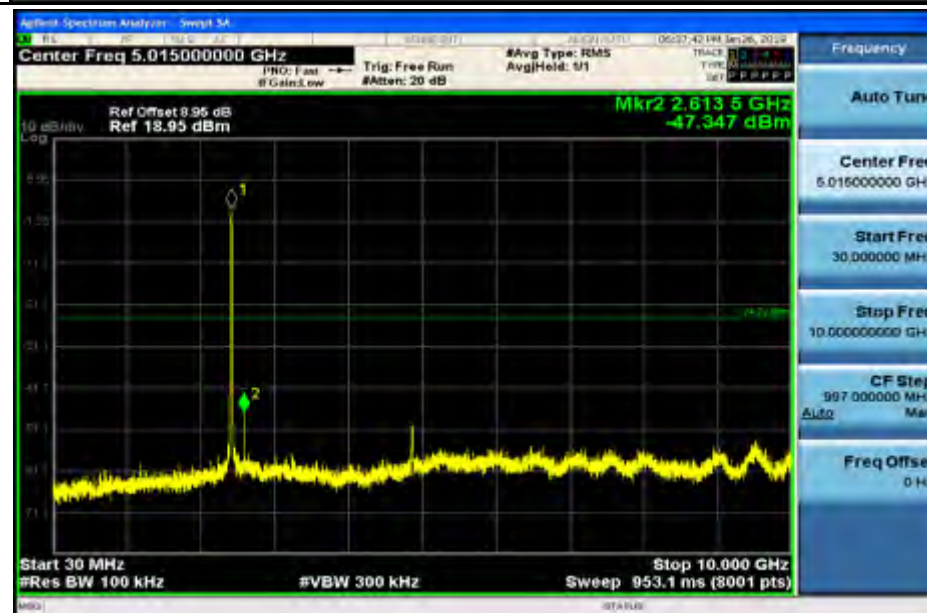
RF Conducted Spurious Emissions_11G_2462_Ant2



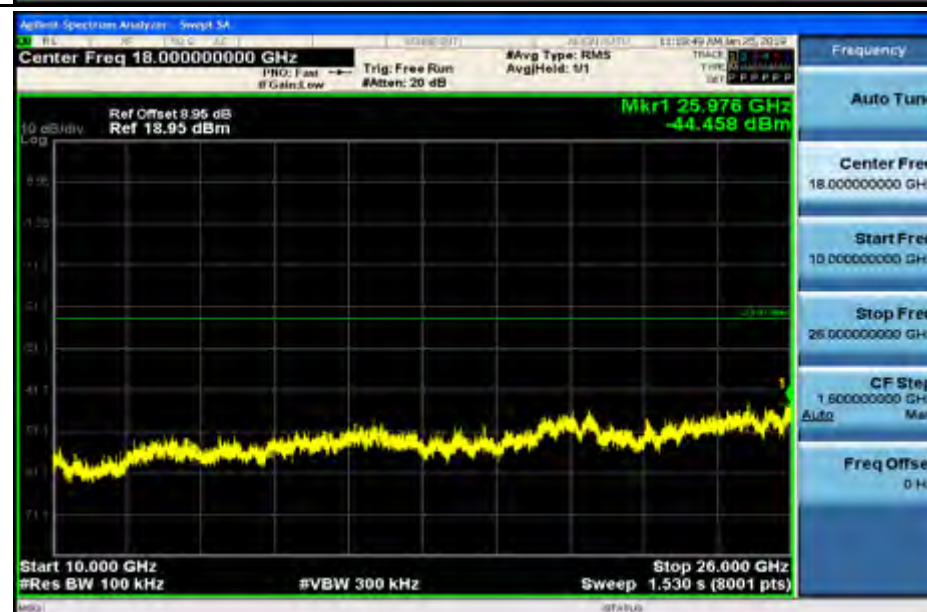
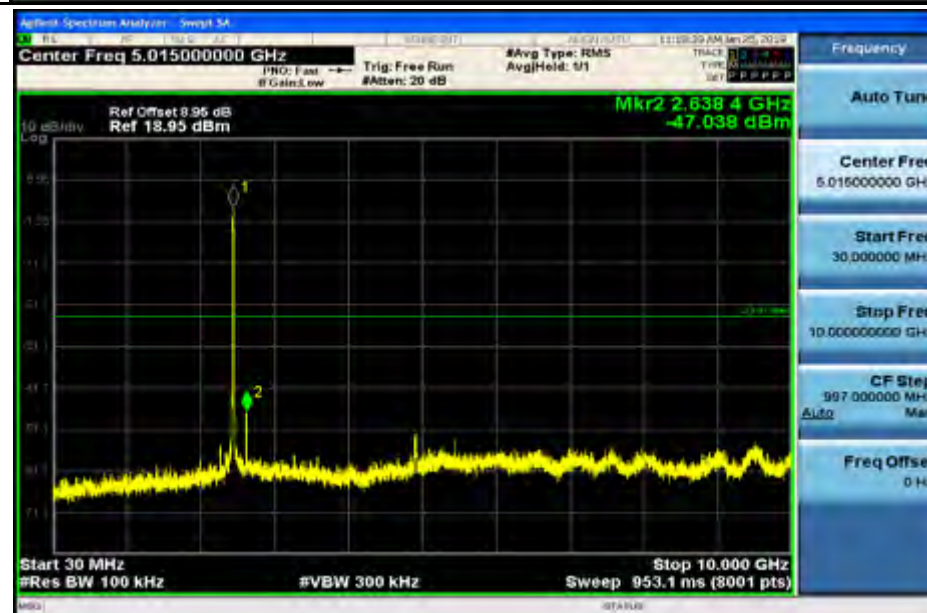
RF Conducted Spurious Emissions_11N20SISO_2412_Ant2



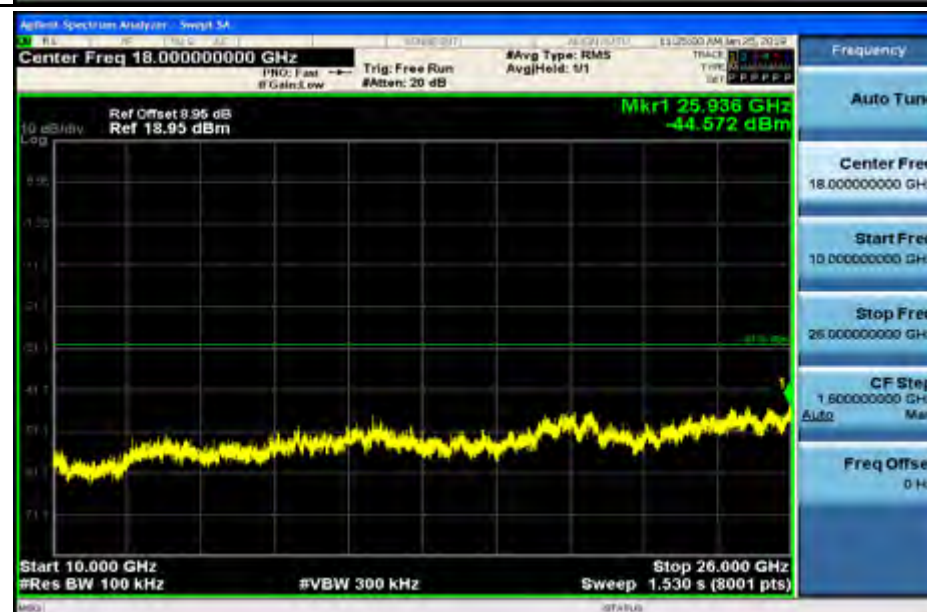
RF Conducted Spurious Emissions_11N20SISO_2437_Ant2



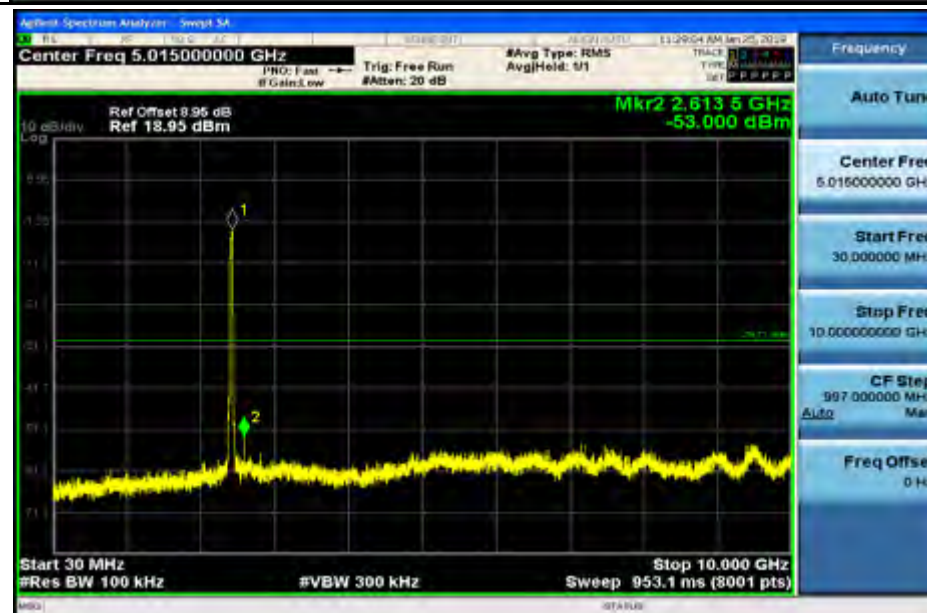
RF Conducted Spurious Emissions_11N20SISO_2462_Ant2



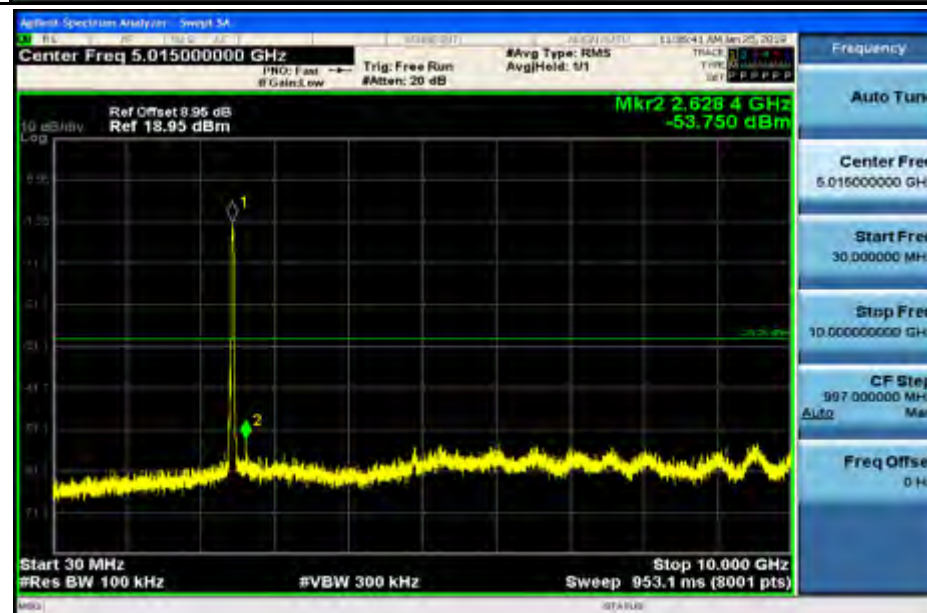
RF Conducted Spurious Emissions_11N40SISO_2422_Ant2



RF Conducted Spurious Emissions_11N40SISO_2437_Ant2



RF Conducted Spurious Emissions_11N40SISO_2452_Ant2



7.Duty Cycle

Test Mode	Test Channel	Duty Cycle[%]		10log(1/x) Factor[dB]	
		Ant1	Ant2	Ant1	Ant2
11B	2412	100.00	100.00	0.00	0.00
11B	2437	100.00	100.00	0.00	0.00
11B	2462	100.00	100.00	0.00	0.00
11G	2412	100.00	97.50	0.00	0.11
11G	2437	100.00	97.50	0.00	0.11
11G	2462	100.00	100.00	0.00	0.00
11N20SISO	2412	100.00	97.32	0.00	0.12
11N20SISO	2437	97.36	97.32	0.12	0.12
11N20SISO	2462	97.36	97.36	0.12	0.12
11N40SISO	2422	95.92	95.92	0.18	0.18
11N40SISO	2437	95.99	95.92	0.18	0.18
11N40SISO	2452	95.92	95.92	0.18	0.18

Duty Cycle_11B_2412_Ant1



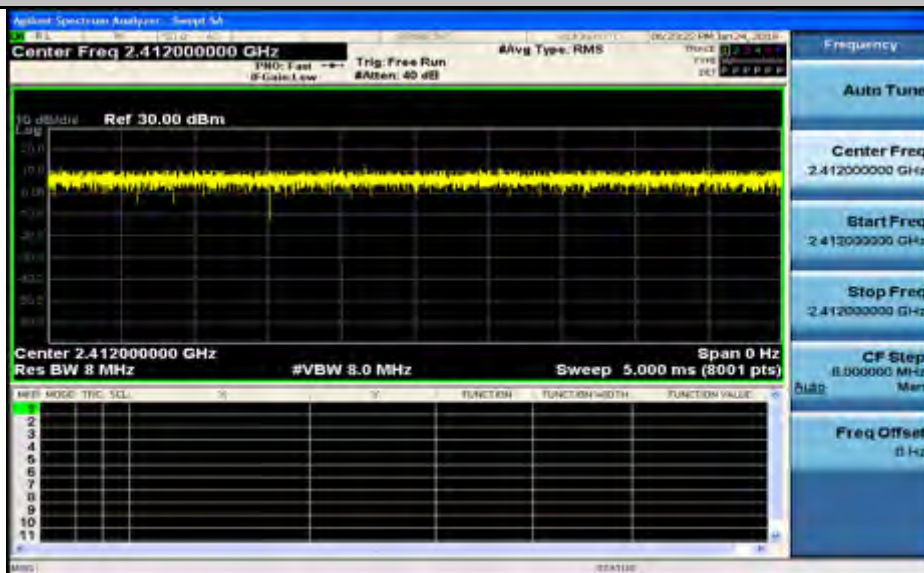
Duty Cycle_11B_2437_Ant1



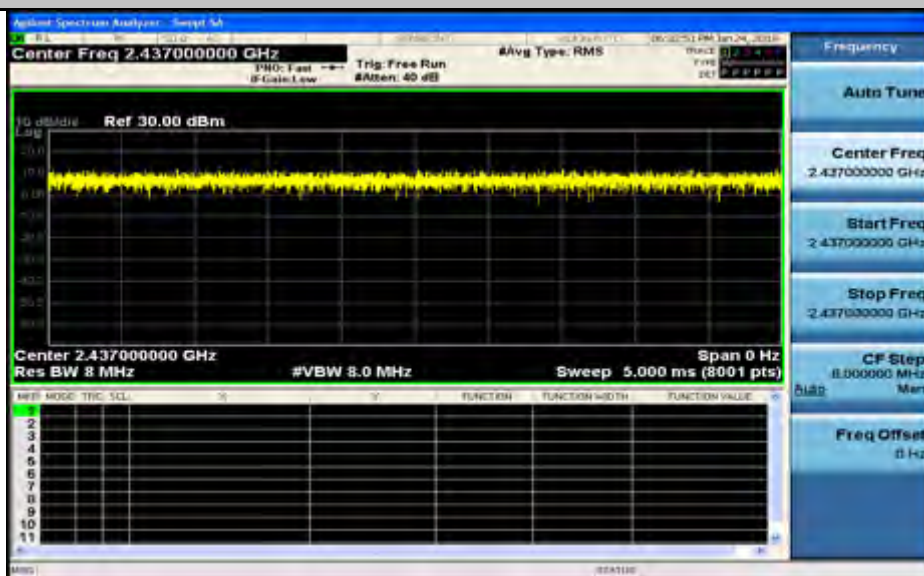
Duty Cycle_11B_2462_Ant1



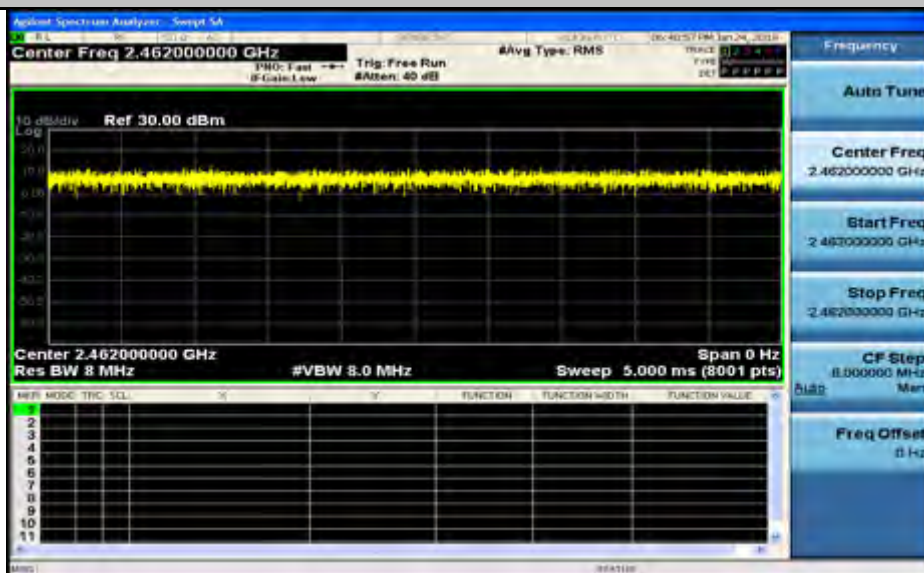
Duty Cycle_11G_2412_Ant1



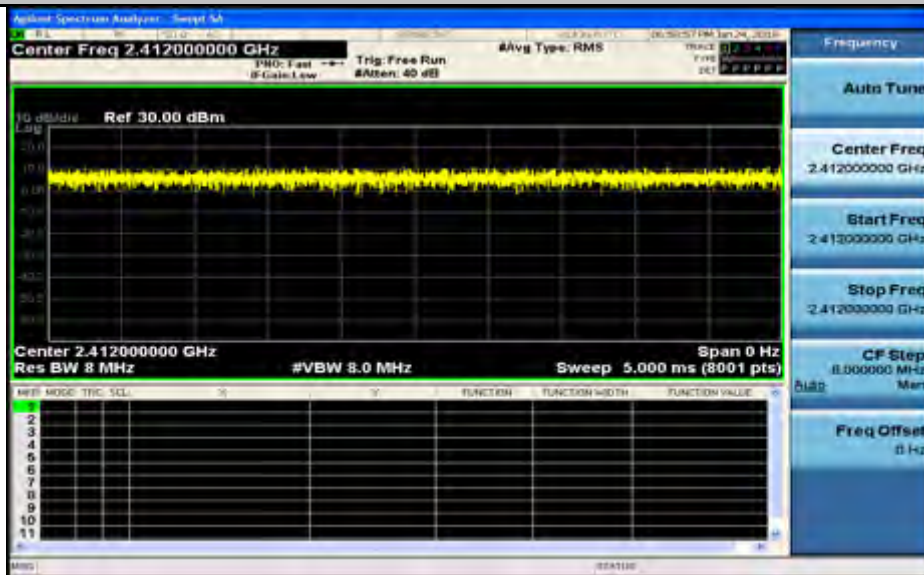
Duty Cycle_11G_2437_Ant1



Duty Cycle_11G_2462_Ant1



Duty Cycle_11N20SISO_2412_Ant1



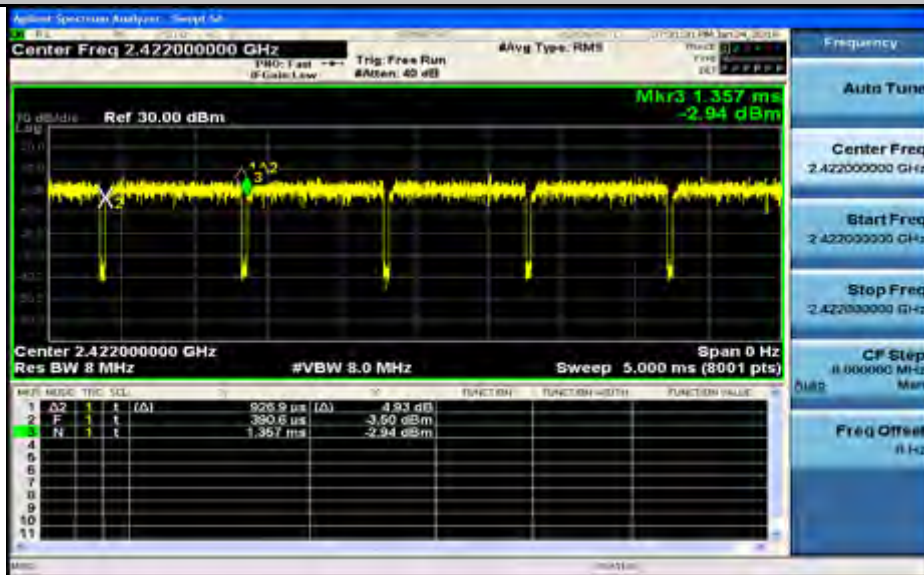
Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N20SISO_2462_Ant1



Duty Cycle_11N40SISO_2422_Ant1



Duty Cycle_11N40SISO_2437_Ant1



Duty Cycle_11N40SISO_2452_Ant1



Duty Cycle_11B_2412_Ant2



Duty Cycle_11B_2437_Ant2



Duty Cycle_11B_2462_Ant2



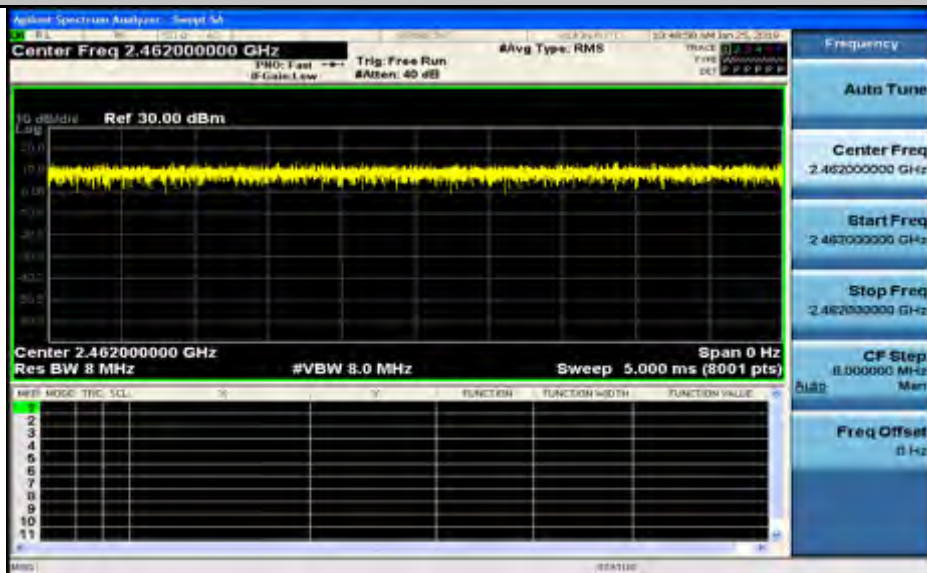
Duty Cycle_11G_2412_Ant2



Duty Cycle_11G_2437_Ant2



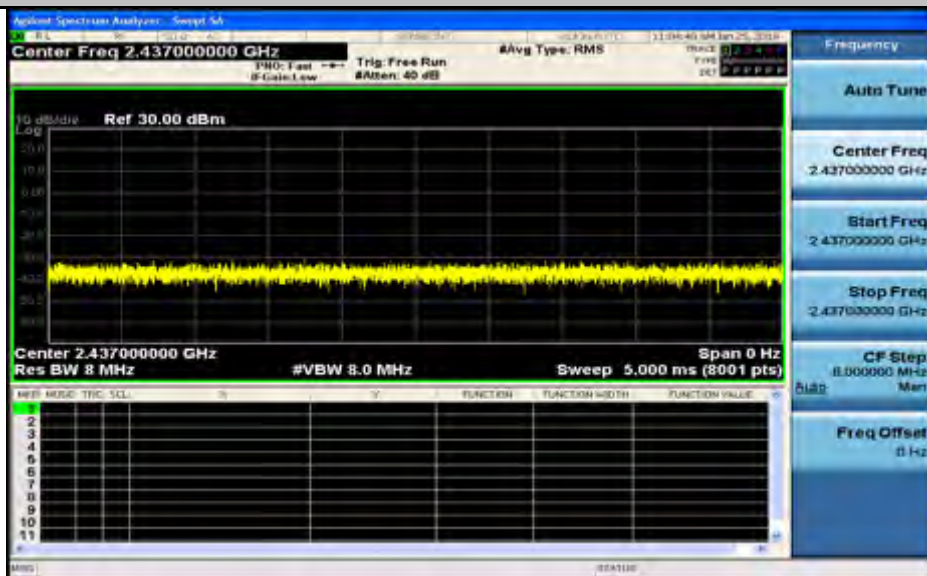
Duty Cycle_11G_2462_Ant2



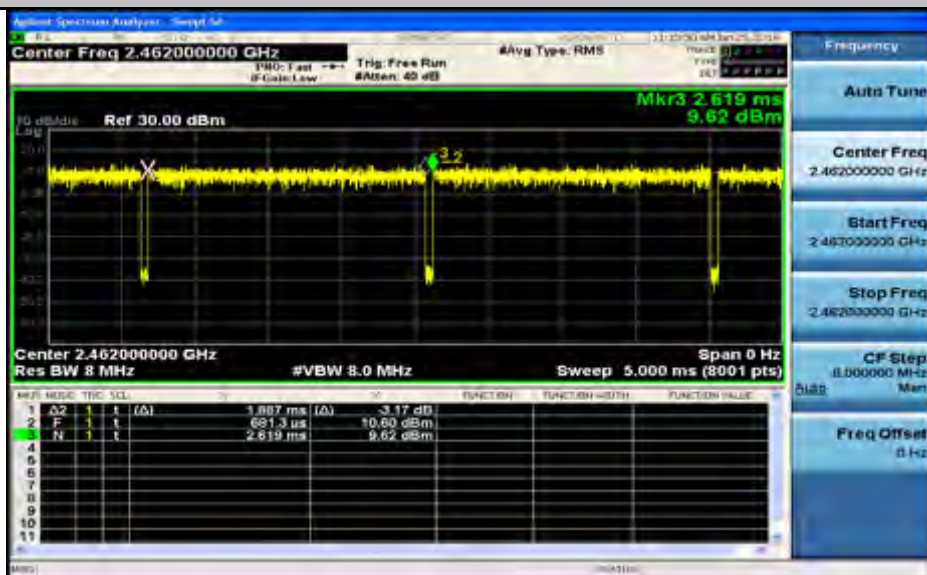
Duty Cycle_11N20SISO_2412_Ant2



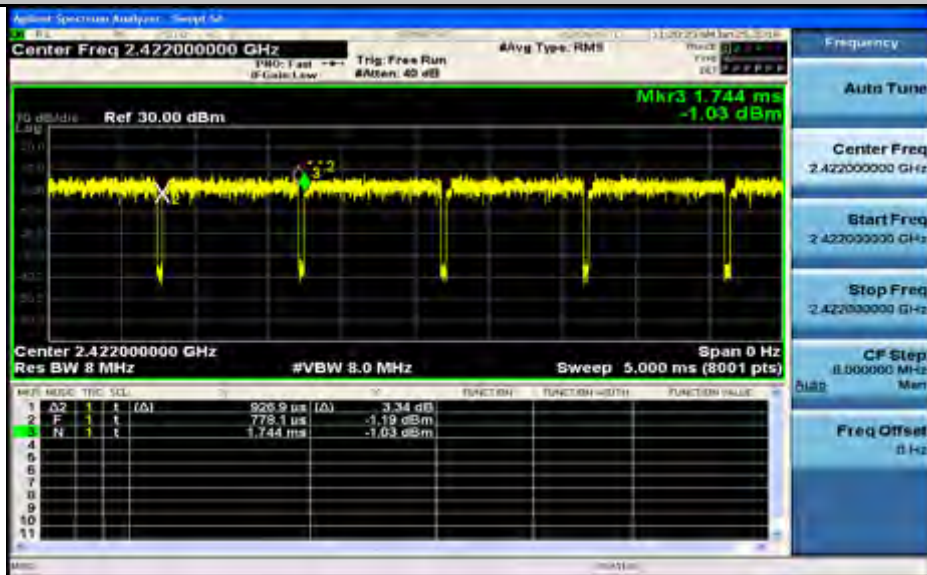
Duty Cycle_11N20SISO_2437_Ant2



Duty Cycle_11N20SISO_2462_Ant2



Duty Cycle_11N40SISO_2422_Ant2



Duty Cycle_11N40SISO_2437_Ant2



Duty Cycle_11N40SISO_2452_Ant2





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