



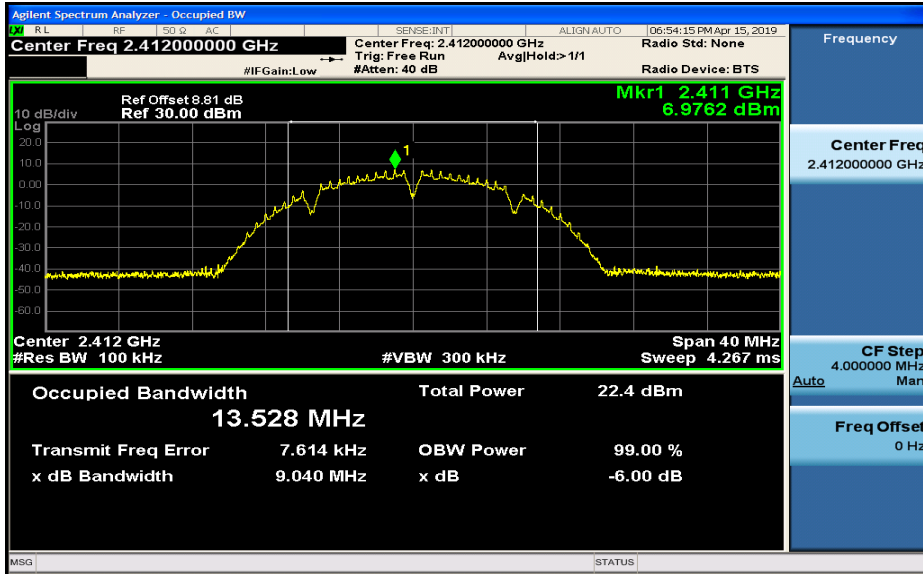
## Appendix A for SHEM190401233901

### 1.6dB Bandwidth

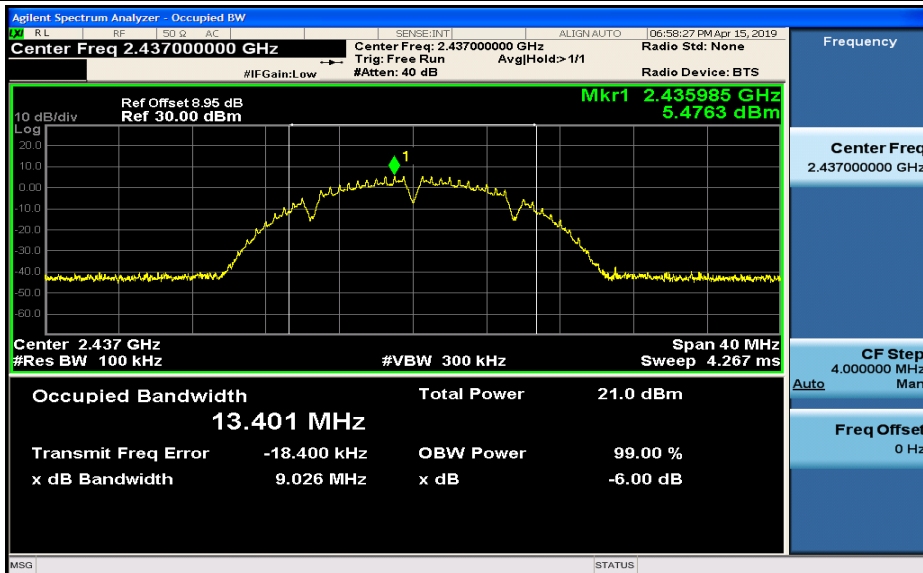
Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
11B	2412	Ant1	9.04	0.5	PASS
11B	2437	Ant1	9.03	0.5	PASS
11B	2462	Ant1	8.57	0.5	PASS
11G	2412	Ant1	16.35	0.5	PASS
11G	2437	Ant1	16.34	0.5	PASS
11G	2462	Ant1	16.35	0.5	PASS
11N20SISO	2412	Ant1	17.58	0.5	PASS
11N20SISO	2437	Ant1	17.58	0.5	PASS
11N20SISO	2462	Ant1	17.55	0.5	PASS
11N40SISO	2422	Ant1	36.32	0.5	PASS
11N40SISO	2437	Ant1	35.70	0.5	PASS
11N40SISO	2452	Ant1	35.40	0.5	PASS



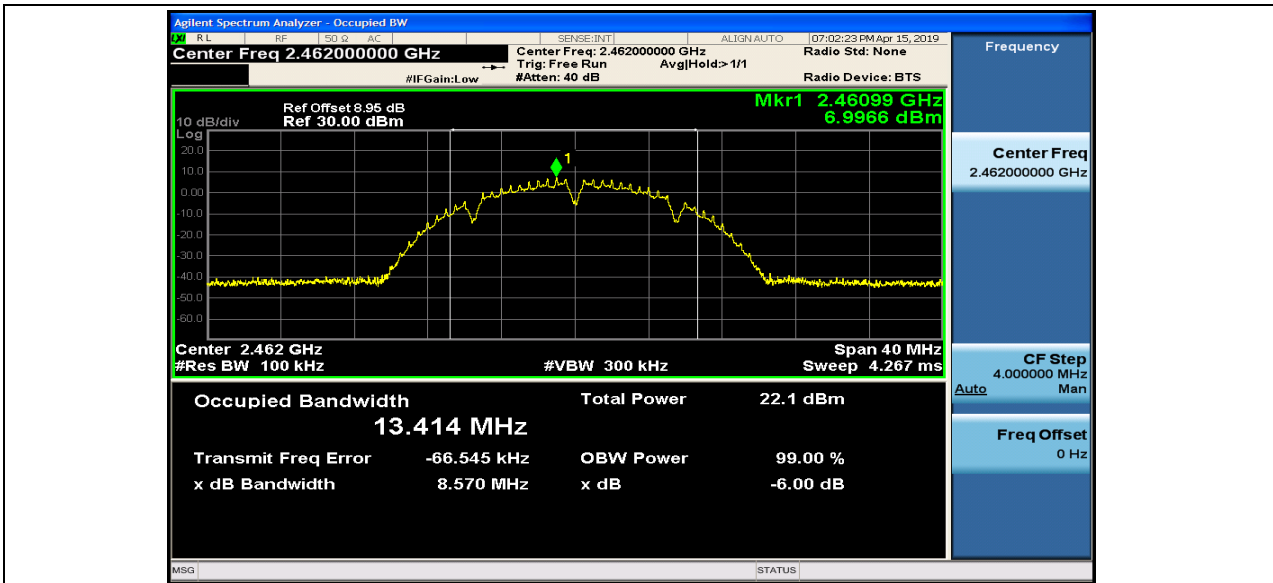
6dB Bandwidth\_11B\_2412\_Ant1



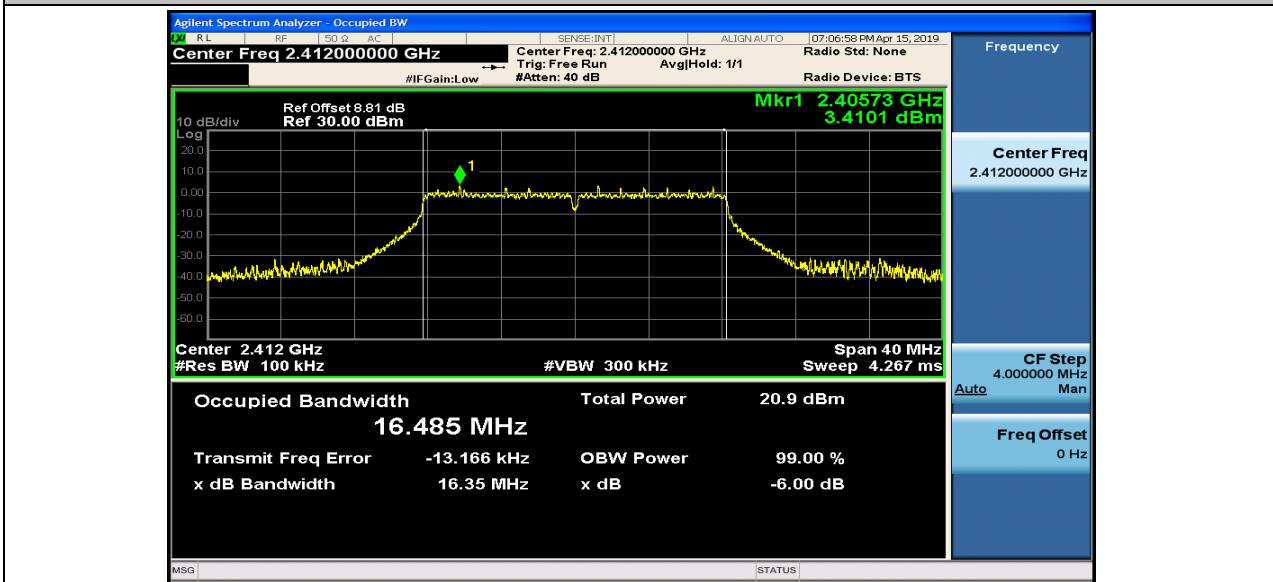
6dB Bandwidth\_11B\_2437\_Ant1



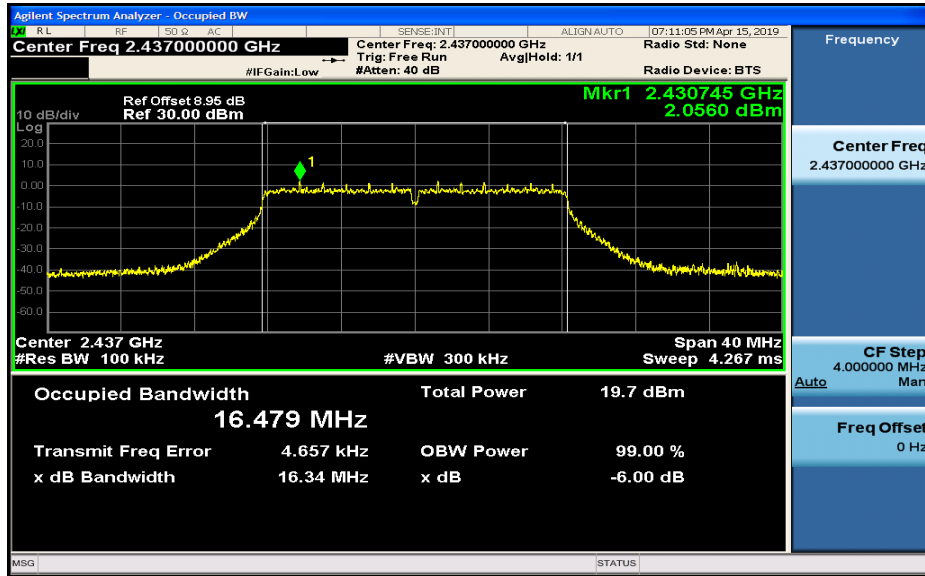
6dB Bandwidth\_11B\_2462\_Ant1



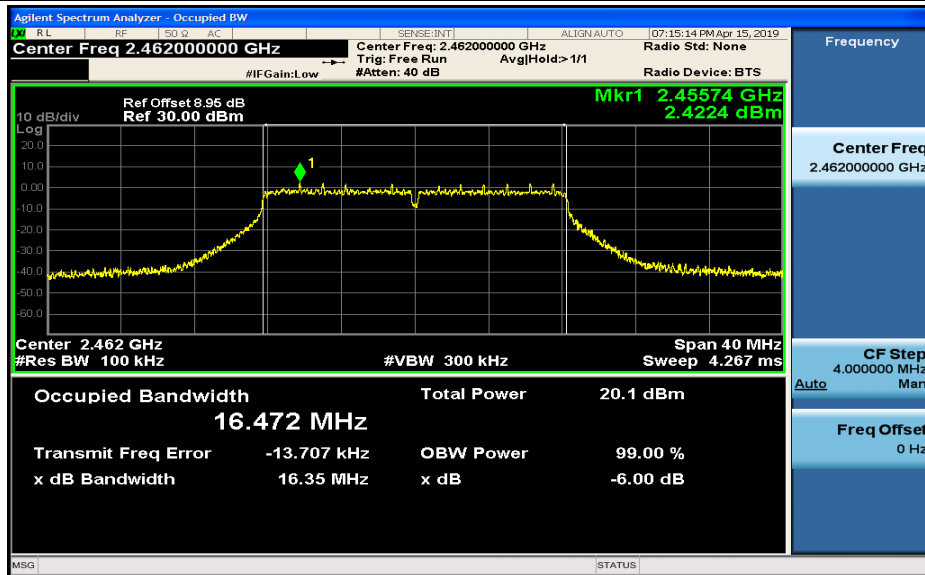
6dB Bandwidth\_11G\_2412\_Ant1



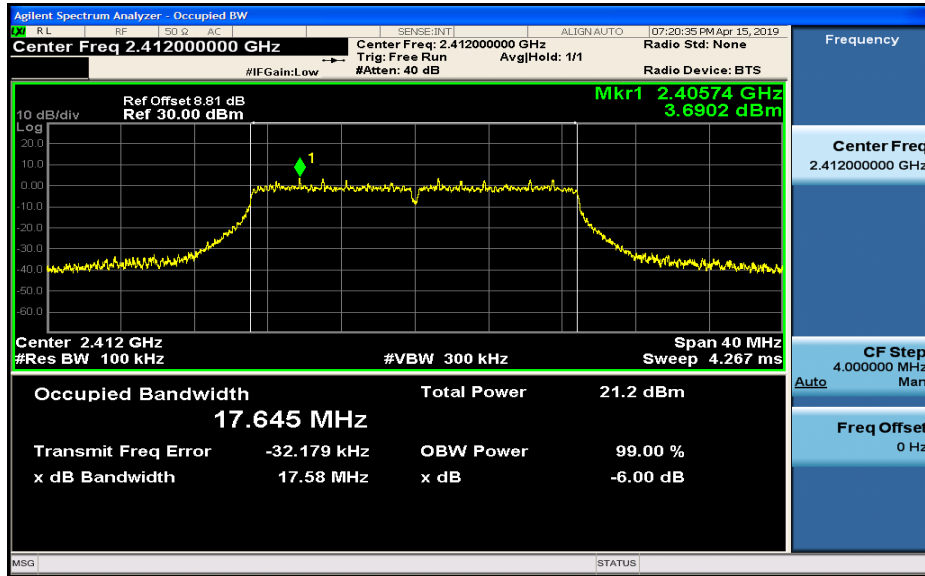
6dB Bandwidth\_11G\_2437\_Ant1



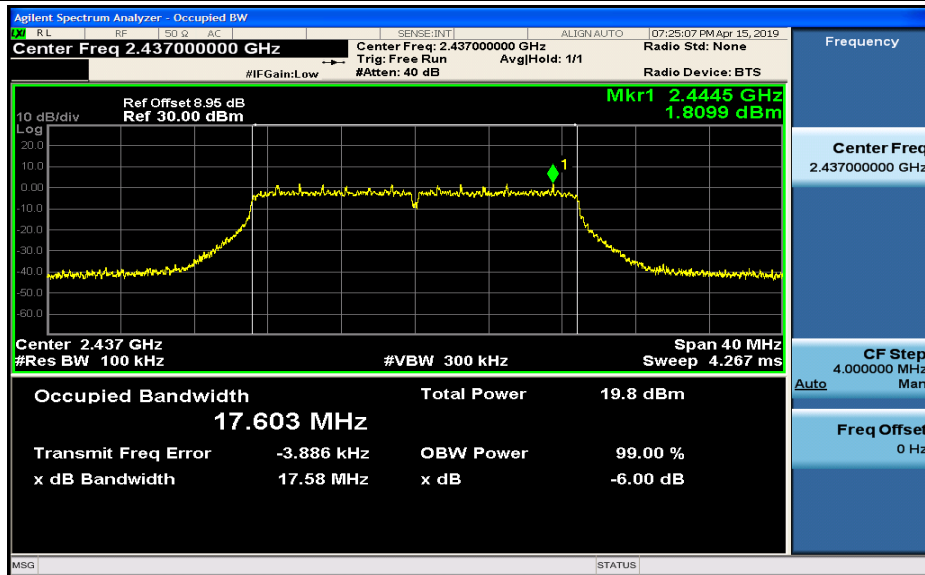
6dB Bandwidth\_11G\_2462\_Ant1



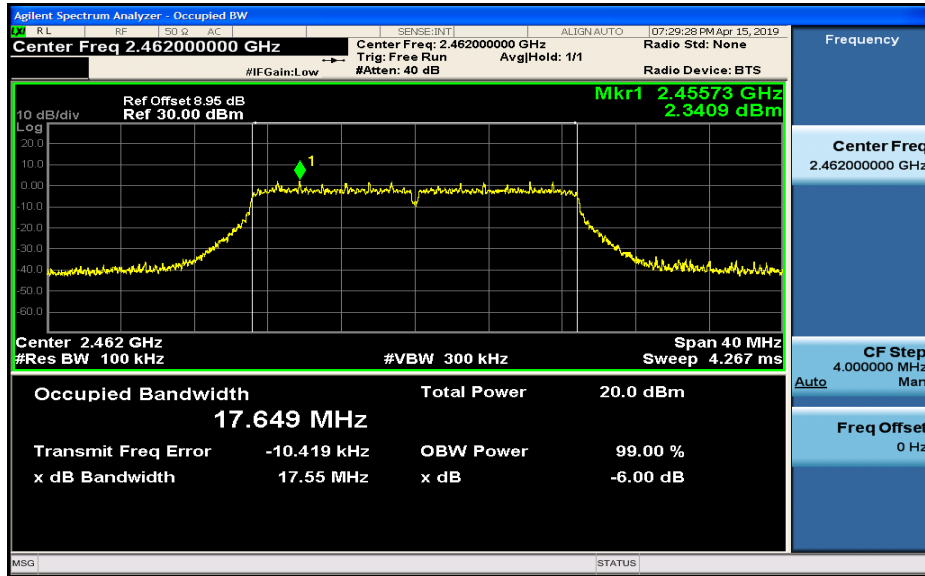
6dB Bandwidth\_11N20SISO\_2412\_Ant1



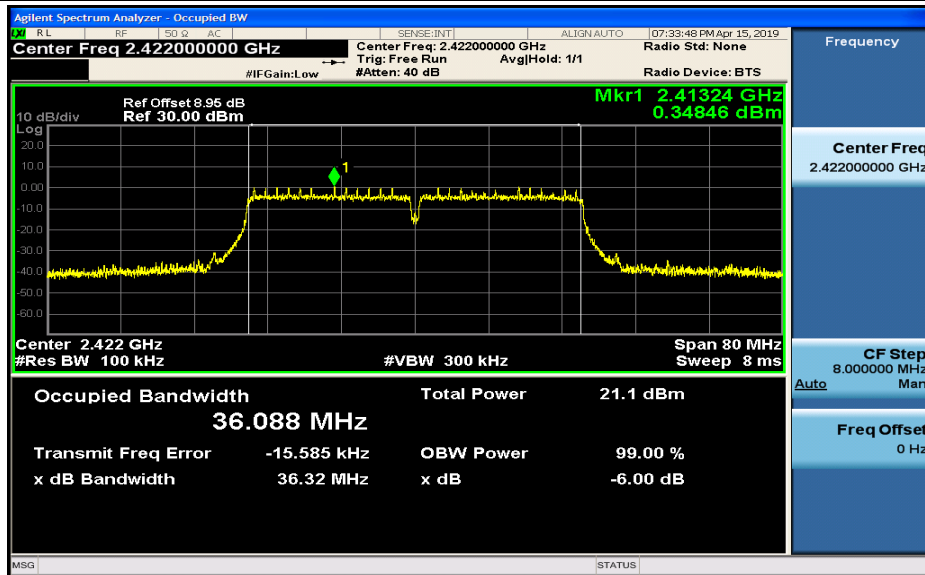
6dB Bandwidth\_11N20SISO\_2437\_Ant1



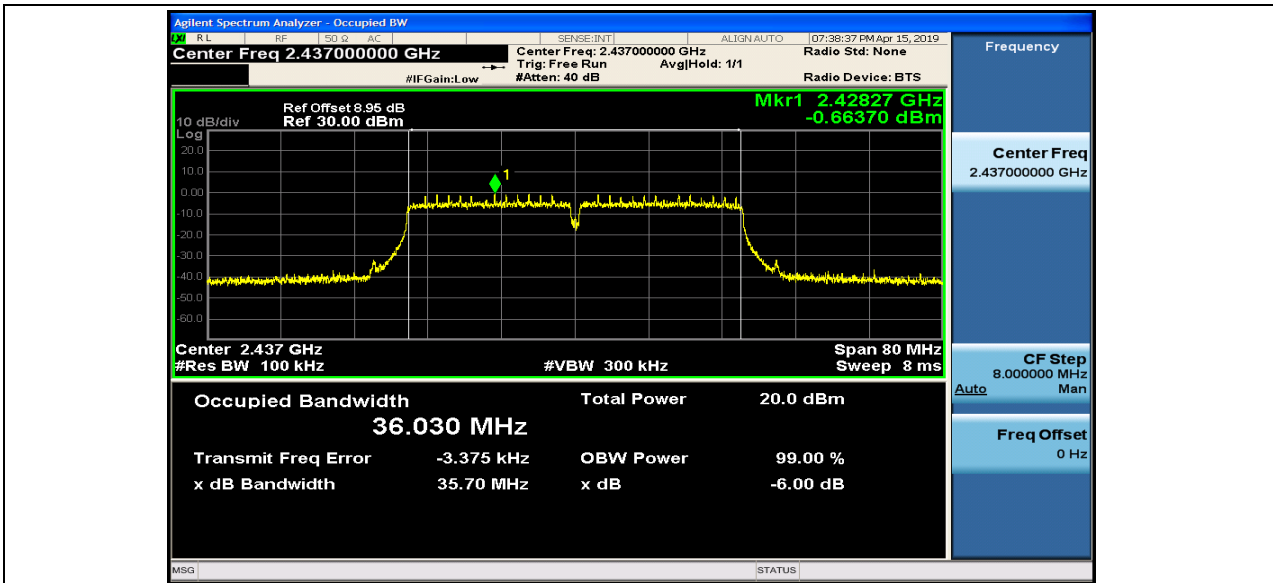
6dB Bandwidth\_11N20SISO\_2462\_Ant1



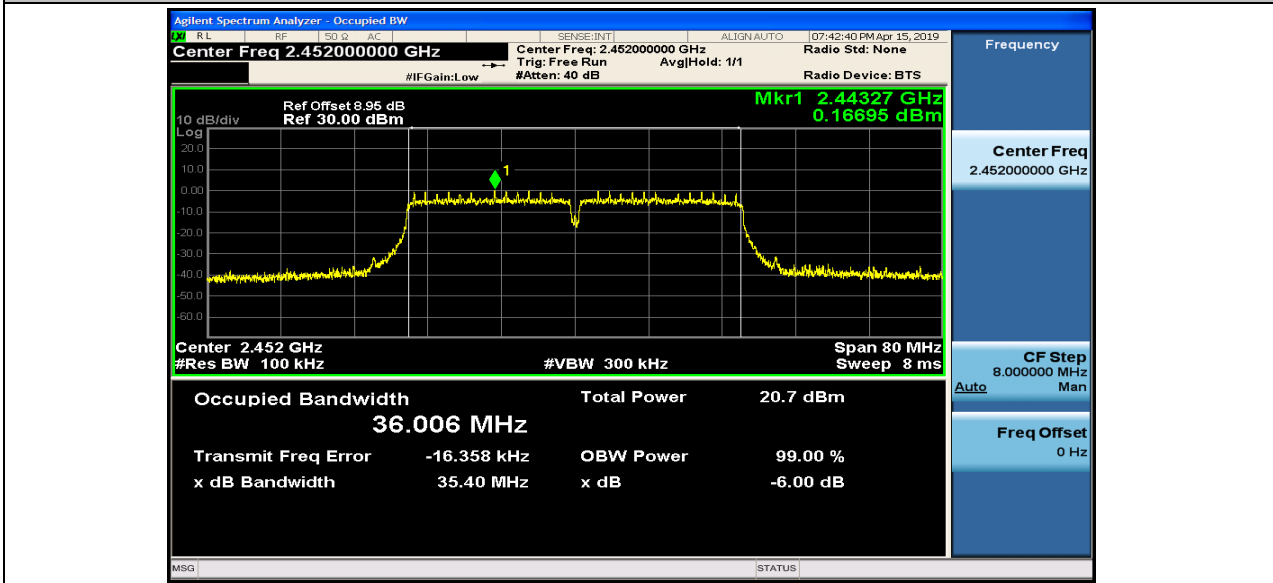
6dB Bandwidth\_11N40SISO\_2422\_Ant1



6dB Bandwidth\_11N40SISO\_2437\_Ant1



6dB Bandwidth\_11N40SISO\_2452\_Ant1





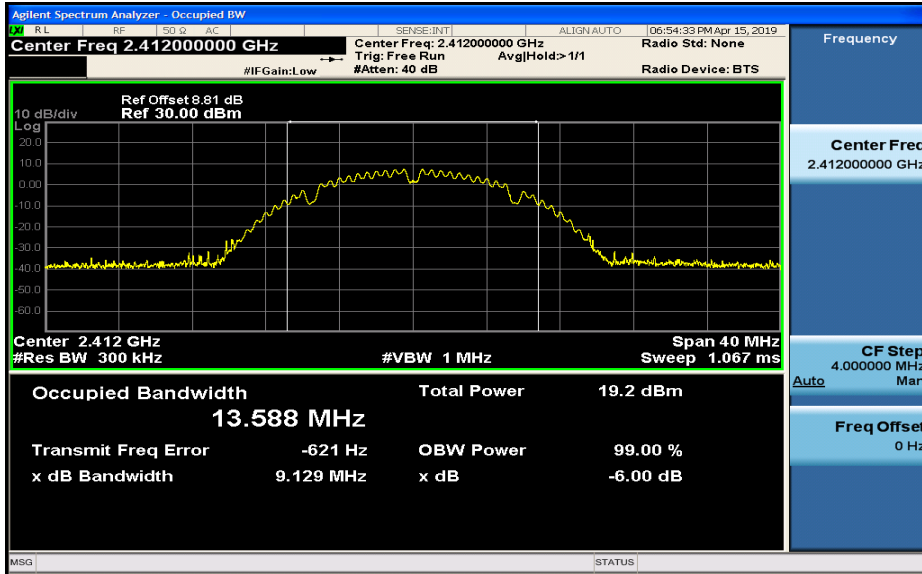
## 2.Occupied Bandwidth

Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict
11B	2412	Ant1	13.59	---	PASS
11B	2437	Ant1	13.53	---	PASS
11B	2462	Ant1	13.47	---	PASS
11G	2412	Ant1	16.91	---	PASS
11G	2437	Ant1	16.94	---	PASS
11G	2462	Ant1	16.93	---	PASS
11N20SISO	2412	Ant1	17.91	---	PASS
11N20SISO	2437	Ant1	17.82	---	PASS
11N20SISO	2462	Ant1	17.97	---	PASS
11N40SISO	2422	Ant1	36.57	---	PASS
11N40SISO	2437	Ant1	36.44	---	PASS
11N40SISO	2452	Ant1	36.47	---	PASS

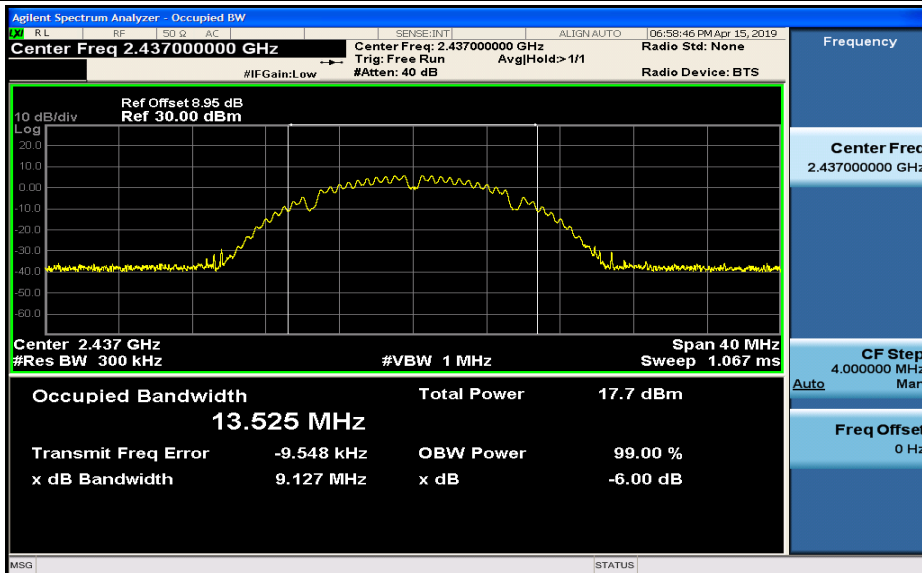




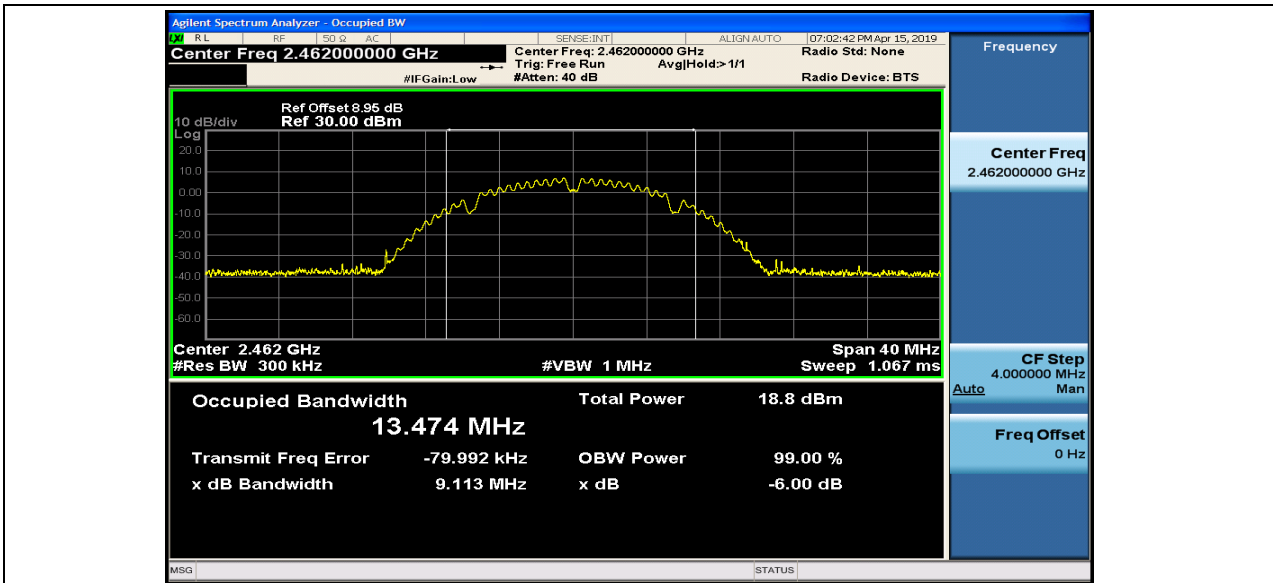
Occupied Bandwidth\_11B\_2412



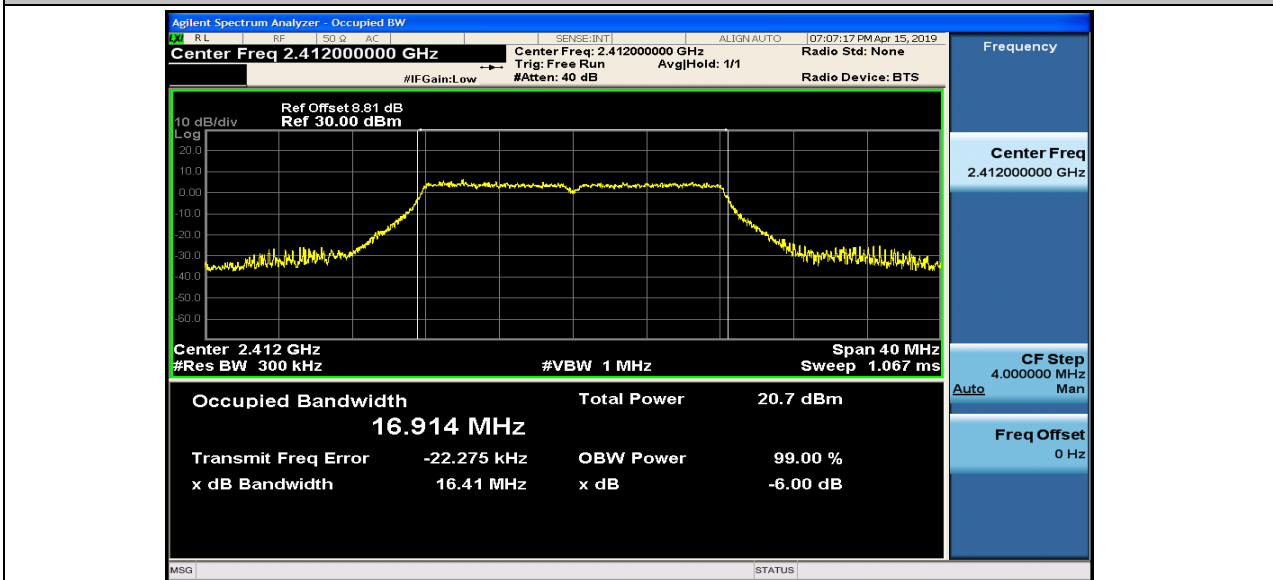
Occupied Bandwidth\_11B\_2437



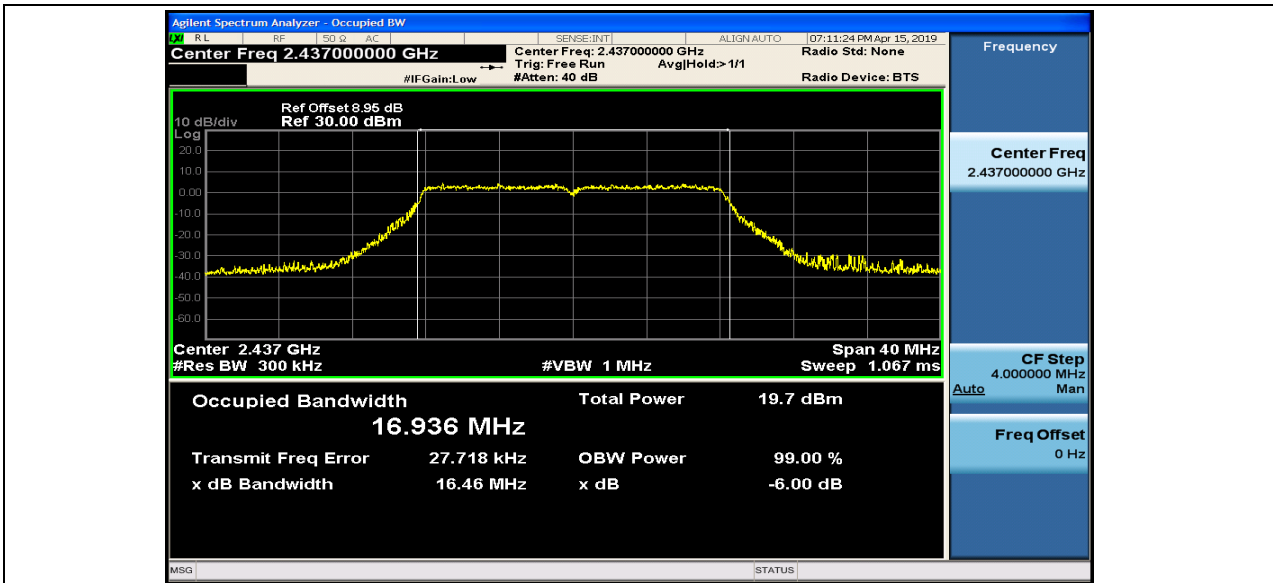
Occupied Bandwidth\_11B\_2462



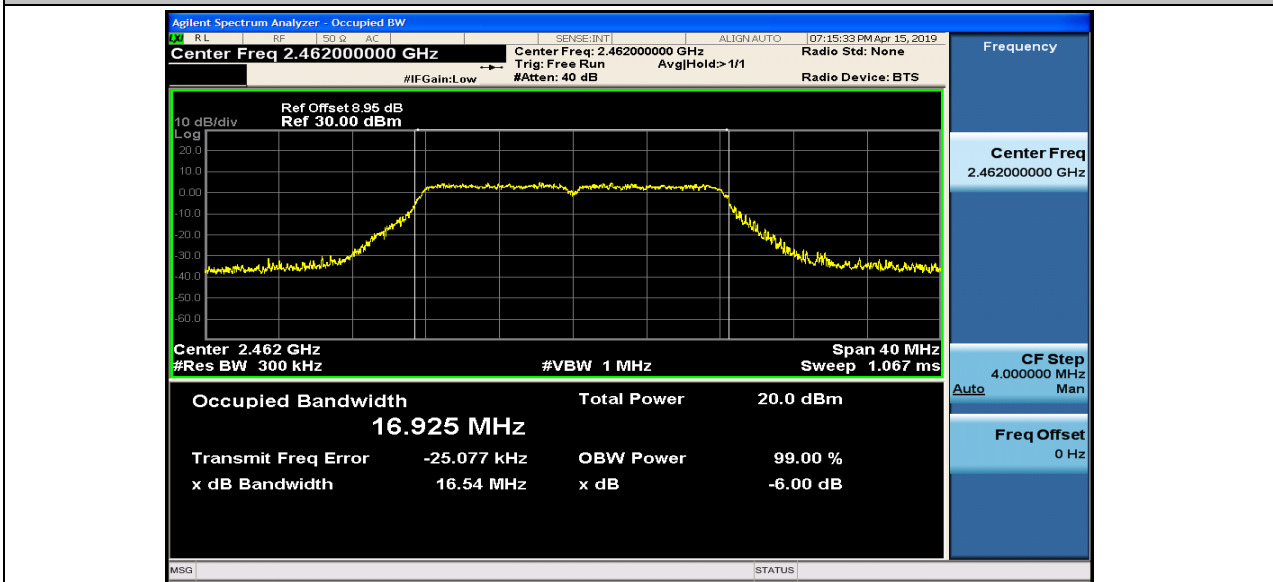
Occupied Bandwidth\_11G\_2412



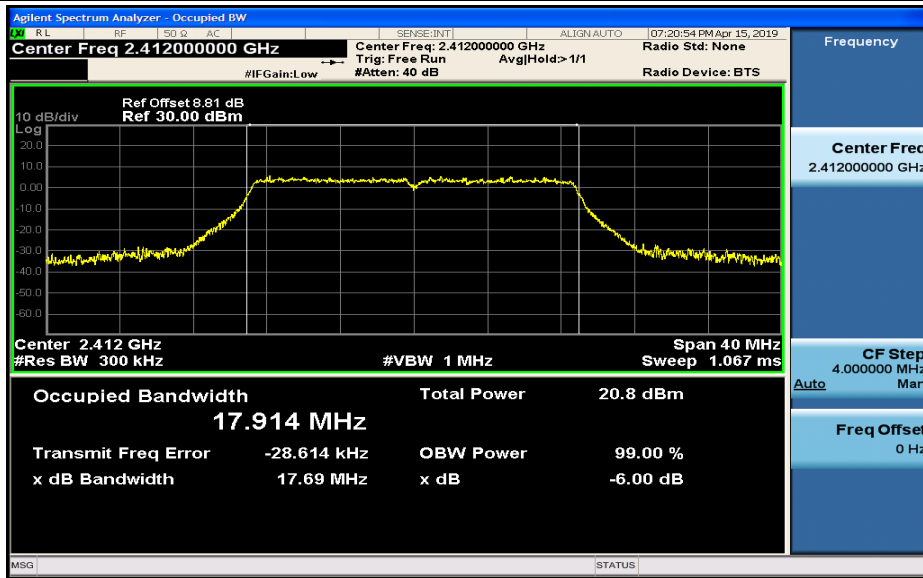
Occupied Bandwidth\_11G\_2437



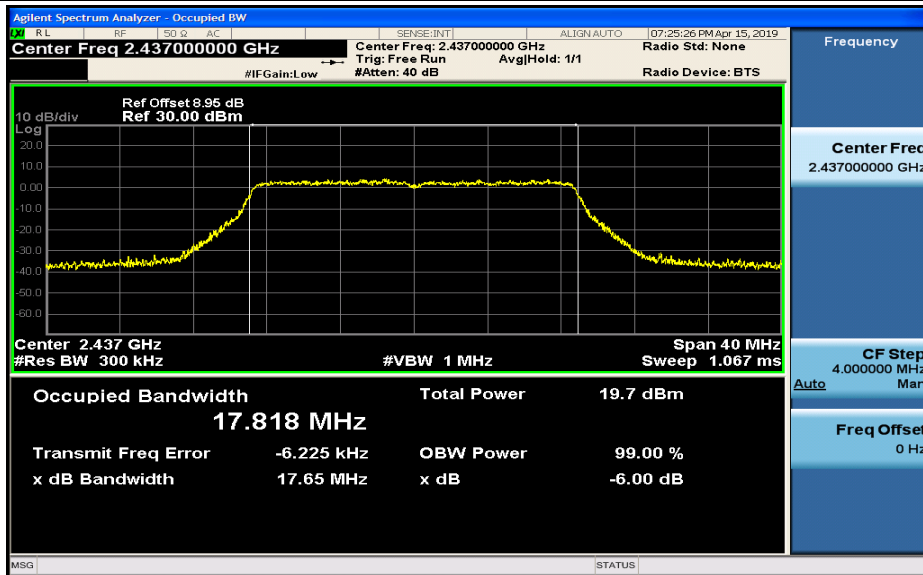
Occupied Bandwidth\_11G\_2462



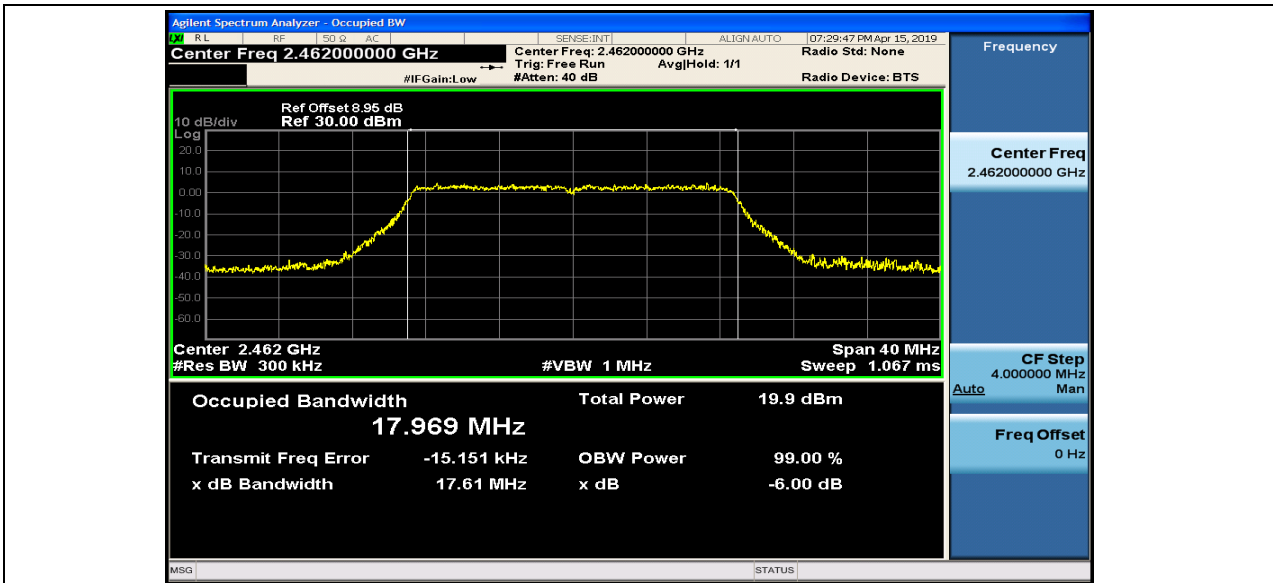
Occupied Bandwidth\_11N20SISO\_2412



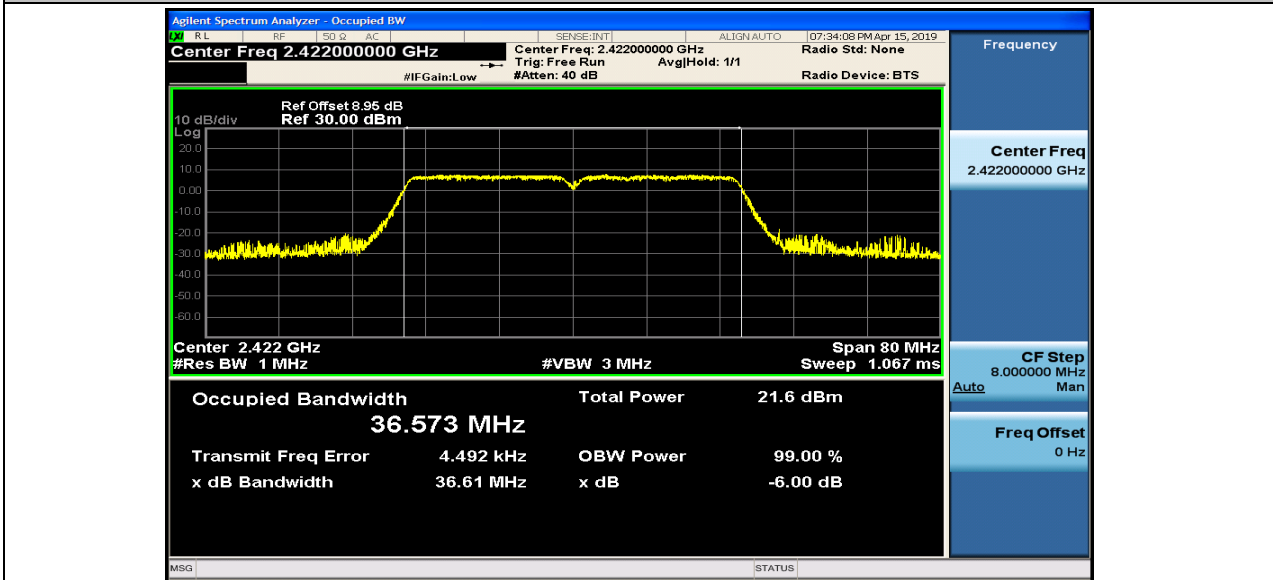
Occupied Bandwidth\_11N20SISO\_2437



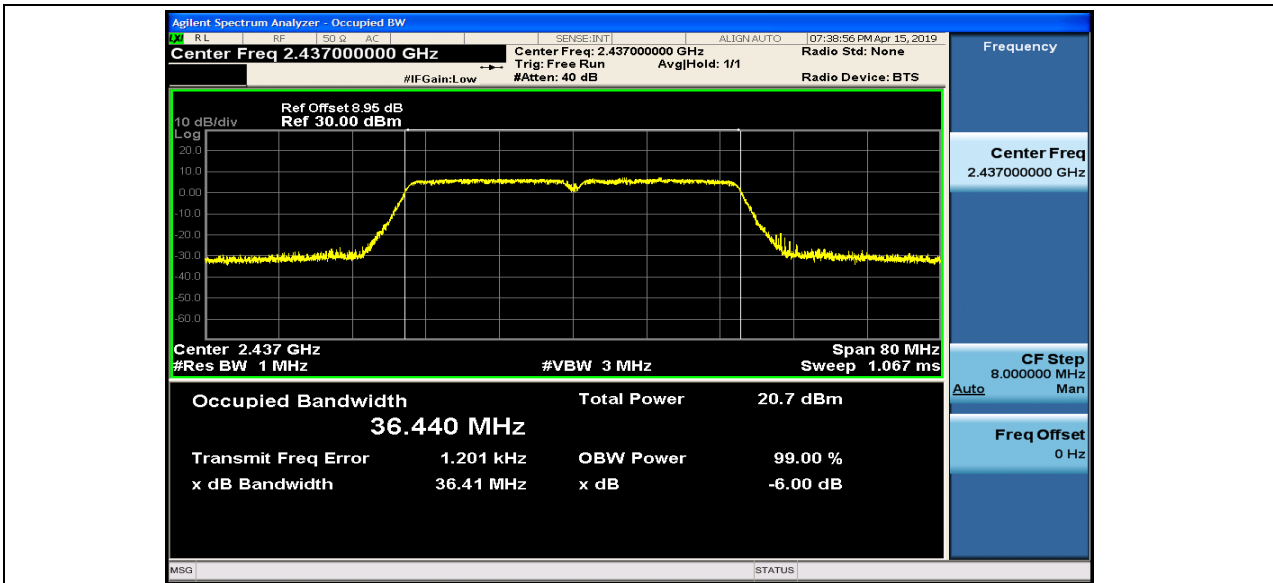
Occupied Bandwidth\_11N20SISO\_2462



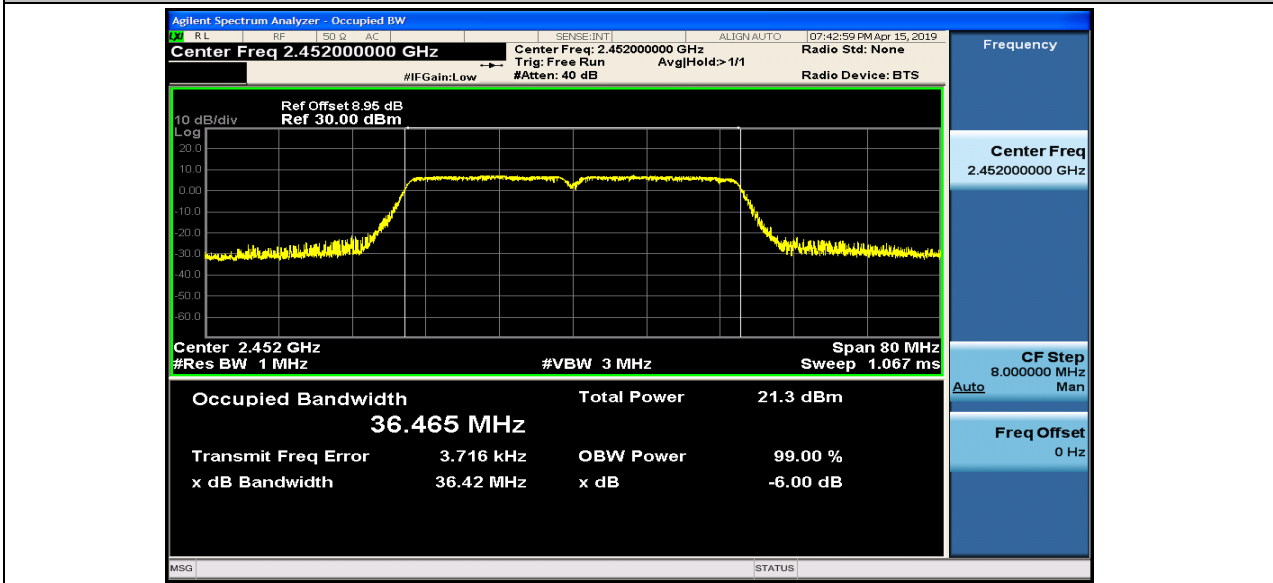
Occupied Bandwidth\_11N40SISO\_2422



Occupied Bandwidth\_11N40SISO\_2437



Occupied Bandwidth\_11N40SISO\_2452



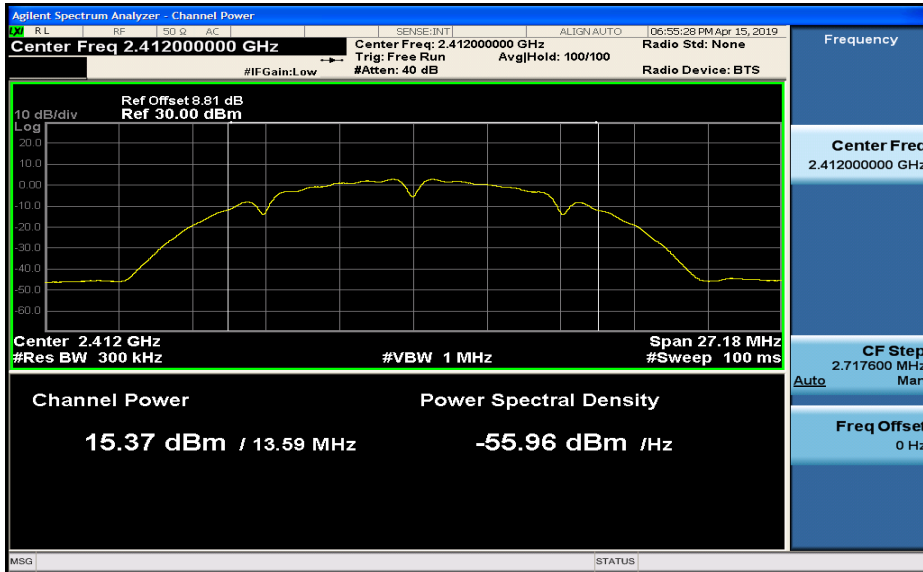


**3. Maximum conducted (average) output power**

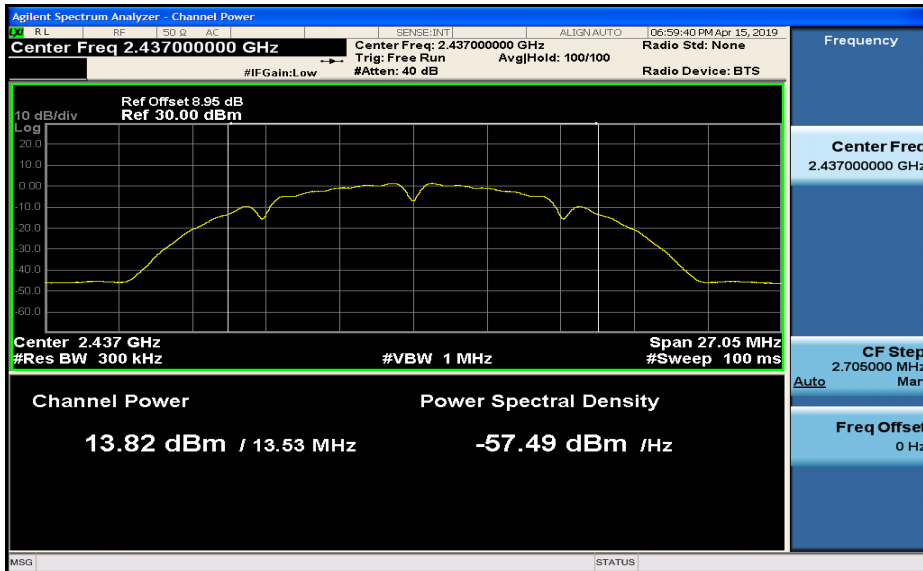
Test Mode	Test Channel	Ant	Level [dBm]	10log(1/x) Factor[dB]	Power [dBm]	Limit [dBm]	Verdict
11B	2412	Ant1	15.37	0.00	15.37	30	PASS
11B	2437	Ant1	13.82	0.00	13.82	30	PASS
11B	2462	Ant1	14.89	0.00	14.89	30	PASS
11G	2412	Ant1	14.02	0.33	14.35	30	PASS
11G	2437	Ant1	13.1	0.17	13.27	30	PASS
11G	2462	Ant1	13.34	0.19	13.53	30	PASS
11N20SISO	2412	Ant1	14.02	0.24	14.26	30	PASS
11N20SISO	2437	Ant1	13.02	0.20	13.22	30	PASS
11N20SISO	2462	Ant1	13.25	0.26	13.51	30	PASS
11N40SISO	2422	Ant1	13.87	0.55	14.41	30	PASS
11N40SISO	2437	Ant1	12.88	0.40	13.28	30	PASS
11N40SISO	2452	Ant1	13.48	0.73	14.20	30	PASS



Maximum conducted (average) output power\_11B\_2412\_Ant1

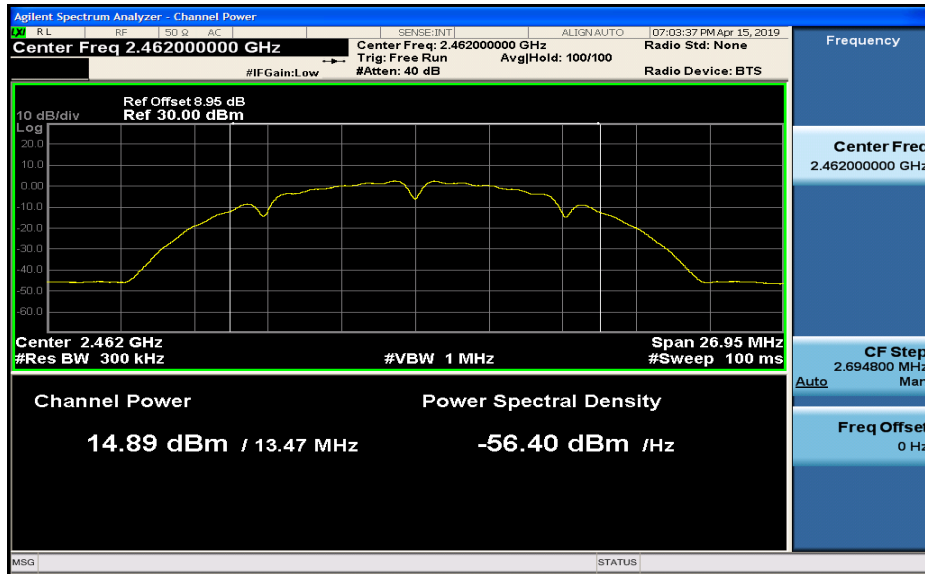


Maximum conducted (average) output power\_11B\_2437\_Ant1

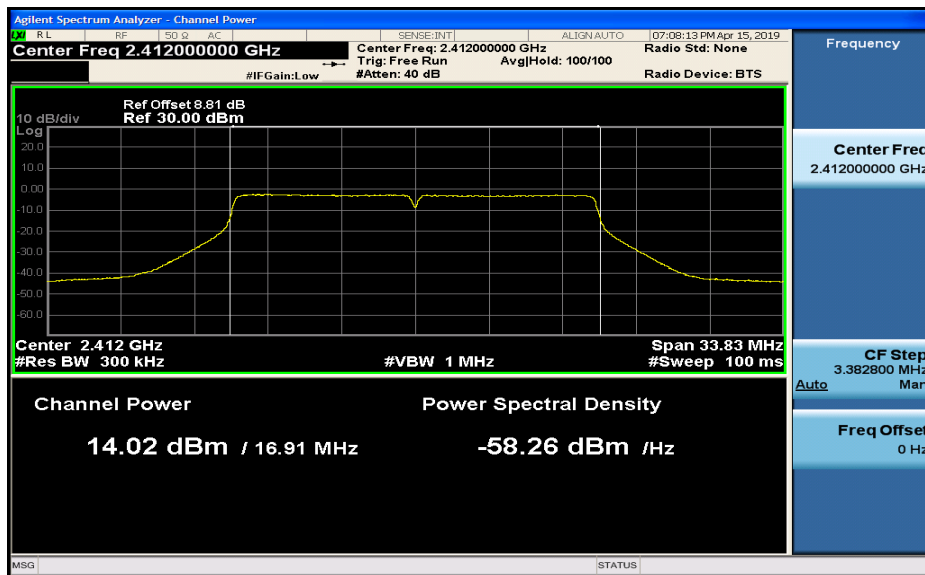


Maximum conducted (average) output power\_11B\_2462\_Ant1

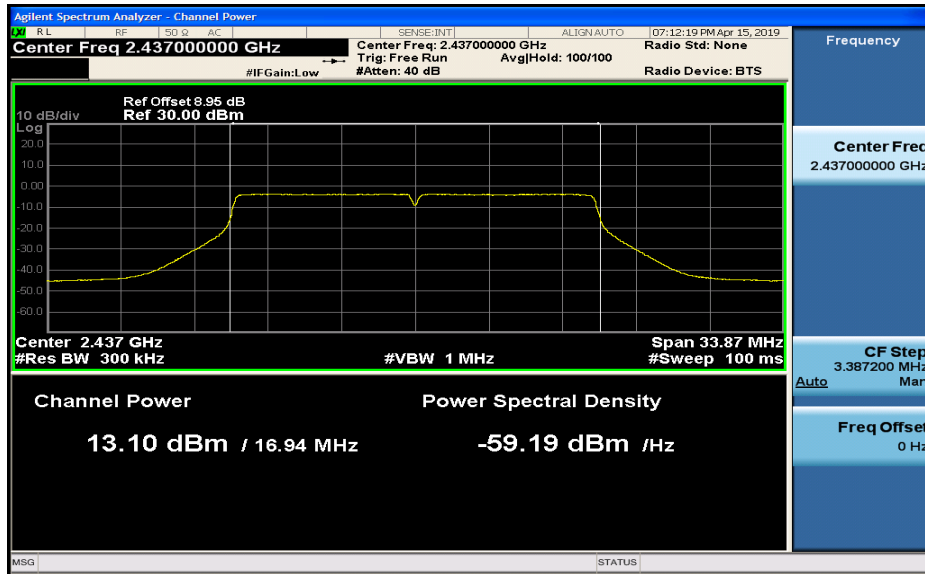




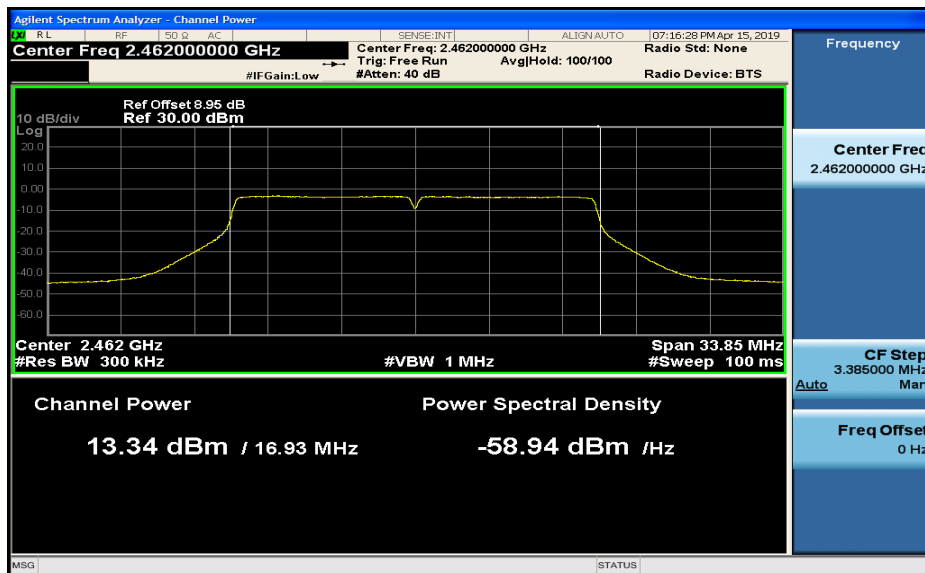
Maximum conducted (average) output power\_11G\_2412\_Ant1



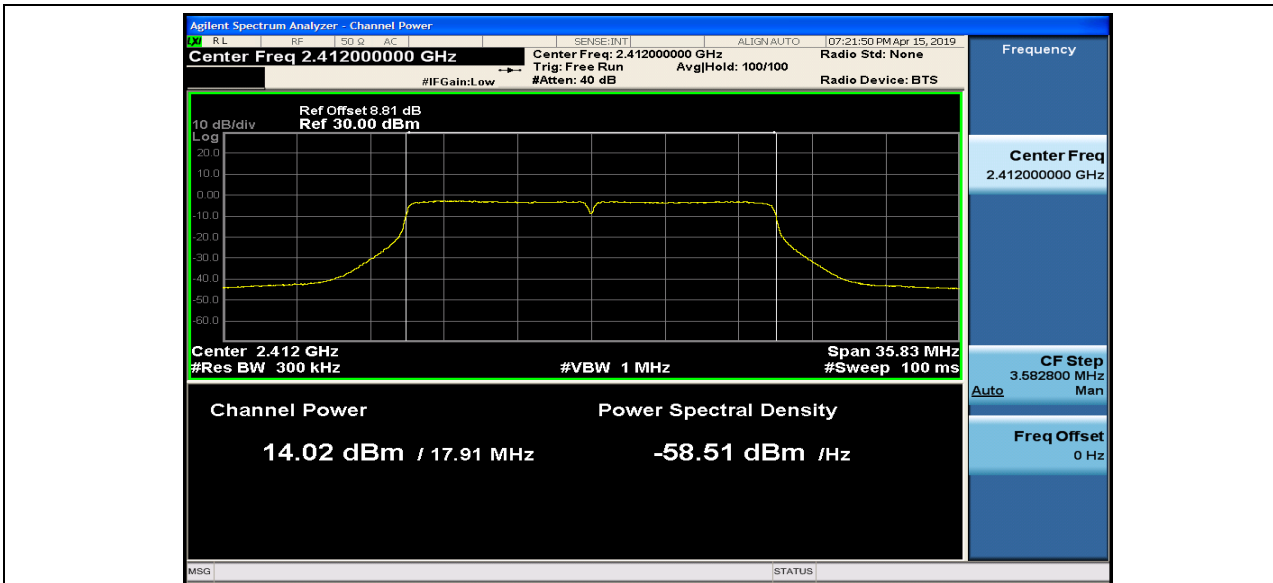
Maximum conducted (average) output power\_11G\_2437\_Ant1



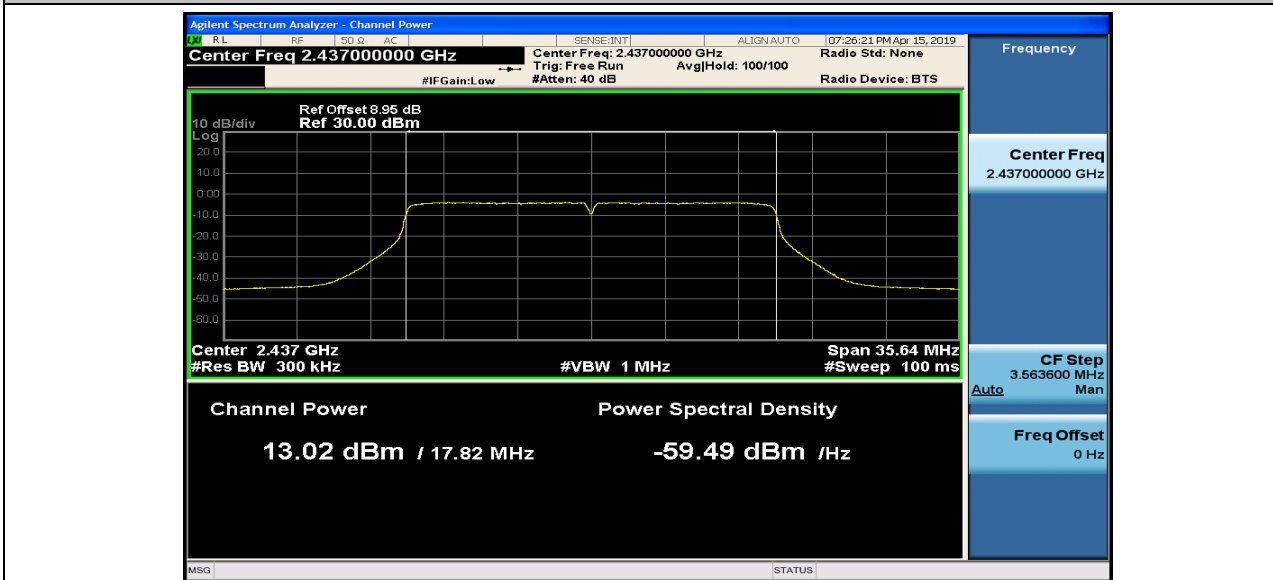
Maximum conducted (average) output power\_11G\_2462\_Ant1



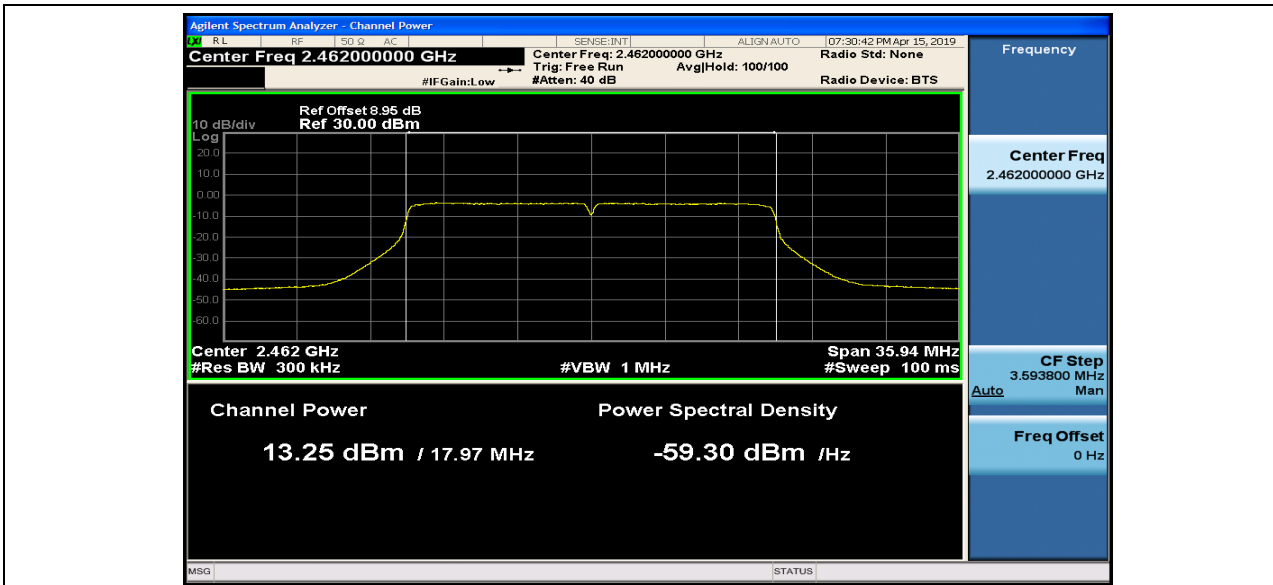
Maximum conducted (average) output power\_11N20SISO\_2412\_Ant1



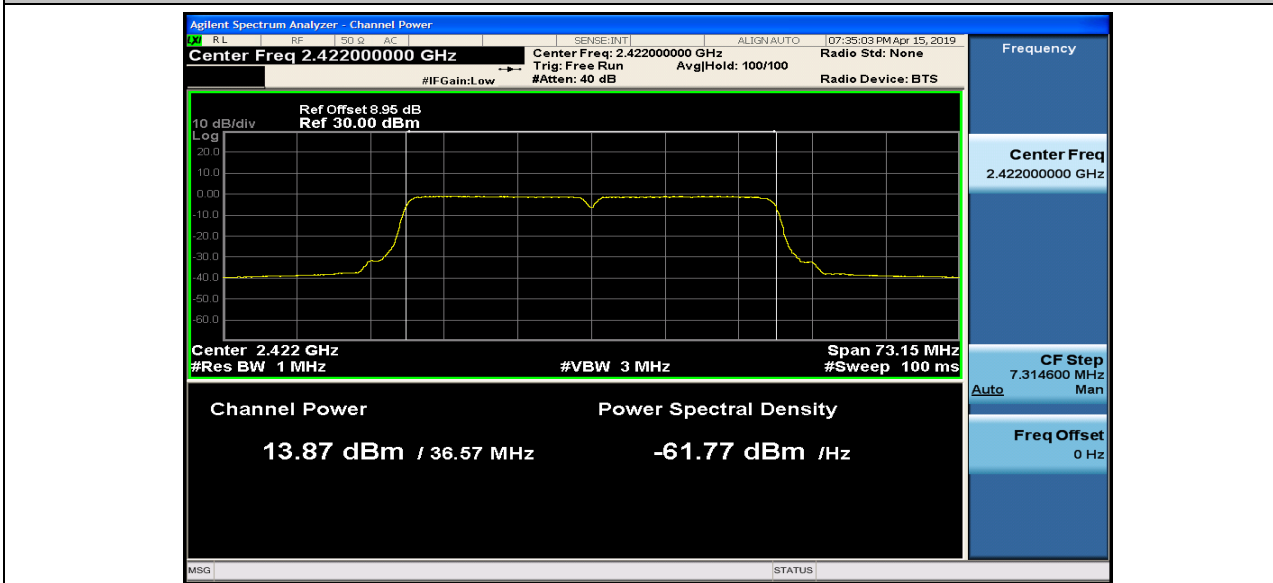
Maximum conducted (average) output power\_11N20SISO\_2437\_Ant1



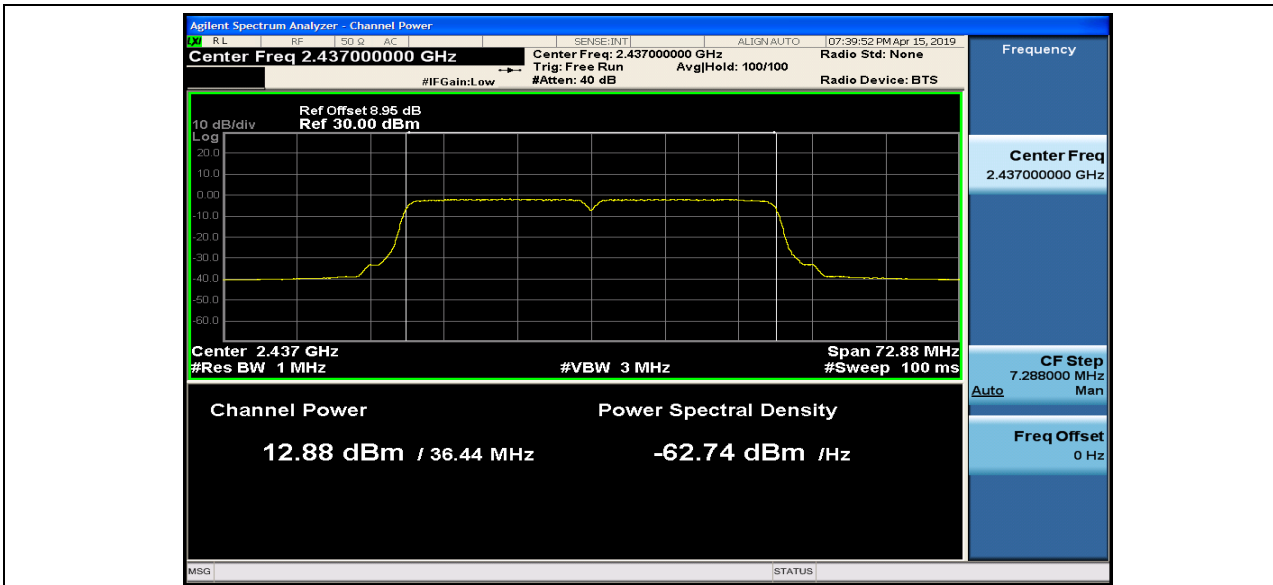
Maximum conducted (average) output power\_11N20SISO\_2462\_Ant1



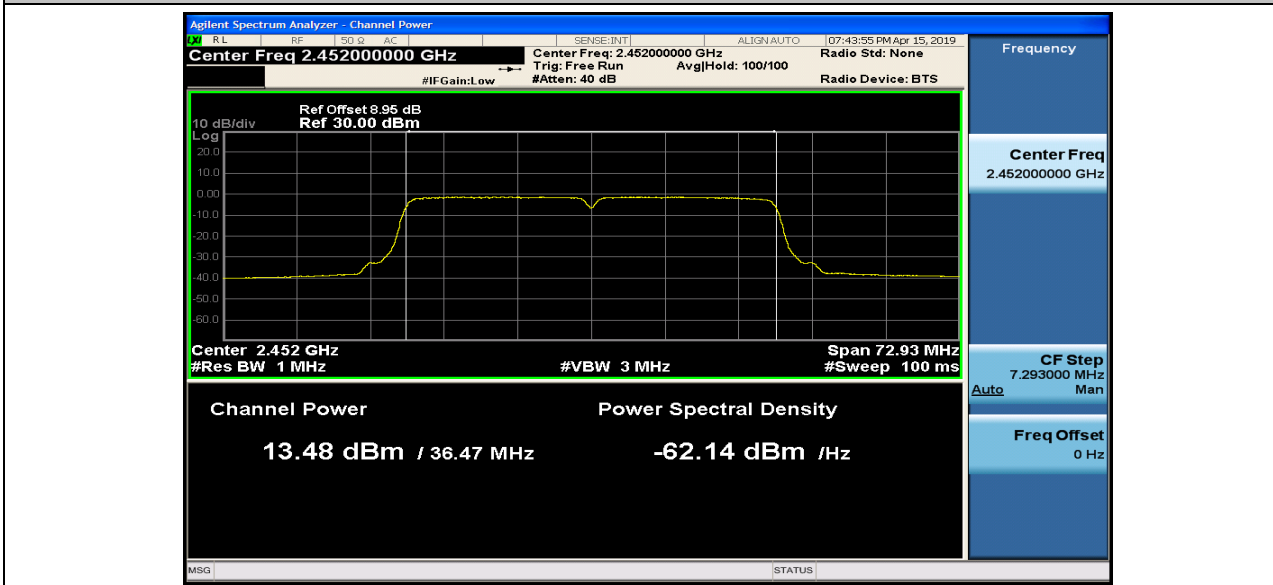
Maximum conducted (average) output power\_11N40SISO\_2422\_Ant1



Maximum conducted (average) output power\_11N40SISO\_2437\_Ant1



Maximum conducted (average) output power\_11N40SISO\_2452\_Ant1



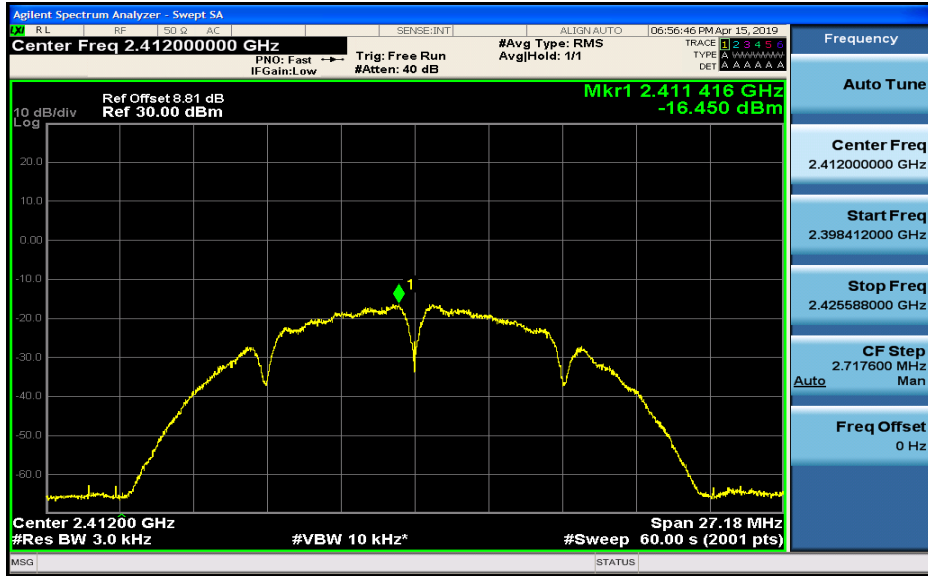


4. Maximum(average) power spectral density

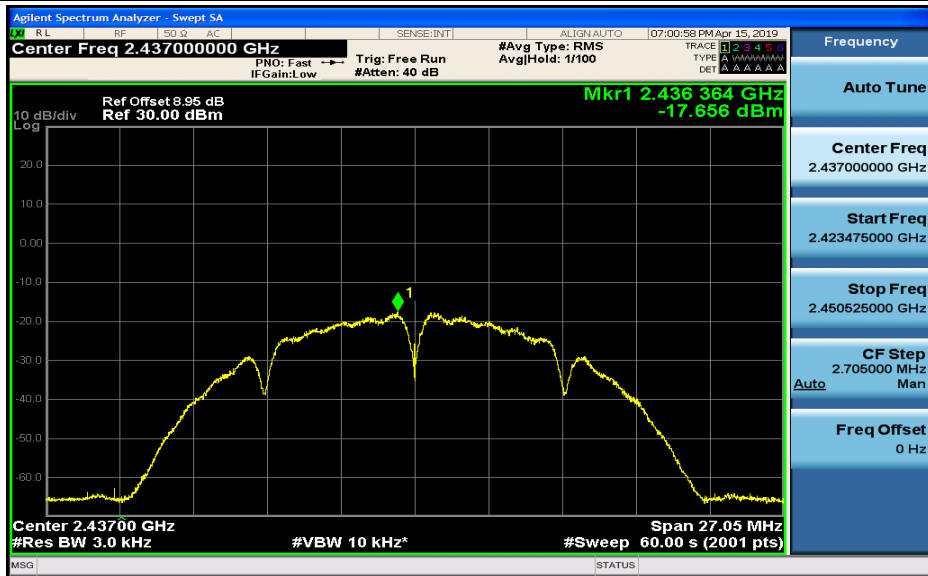
Test Mode	Test Channel	Ant	Level [dBm/3kHz]	10log(1/x) Factor[dB]	PSD[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	Ant1	-16.45	0.00	-16.45	8.00	PASS
11B	2437	Ant1	-17.66	0.00	-17.66	8.00	PASS
11B	2462	Ant1	-16.73	0.00	-16.73	8.00	PASS
11G	2412	Ant1	-20.18	0.33	-19.85	8.00	PASS
11G	2437	Ant1	-20.92	0.17	-20.75	8.00	PASS
11G	2462	Ant1	-20.79	0.19	-20.60	8.00	PASS
11N20SISO	2412	Ant1	-20.01	0.24	-19.77	8.00	PASS
11N20SISO	2437	Ant1	-21.26	0.20	-21.06	8.00	PASS
11N20SISO	2462	Ant1	-20.59	0.26	-20.33	8.00	PASS
11N40SISO	2422	Ant1	-22.85	0.55	-22.30	8.00	PASS
11N40SISO	2437	Ant1	-24.43	0.40	-24.03	8.00	PASS
11N40SISO	2452	Ant1	-23.88	0.73	-23.15	8.00	PASS



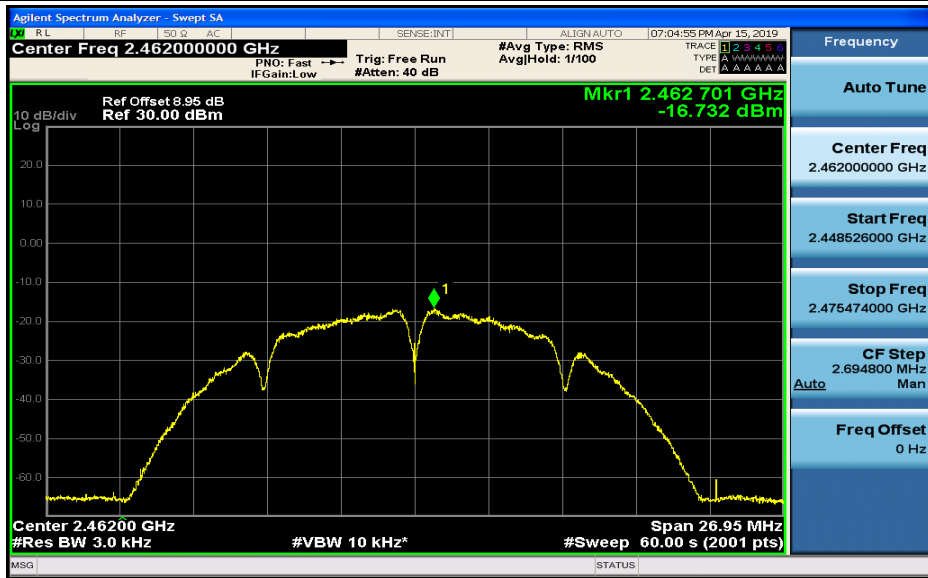
Maximum(average) power spectral density\_11B\_2412\_Ant1



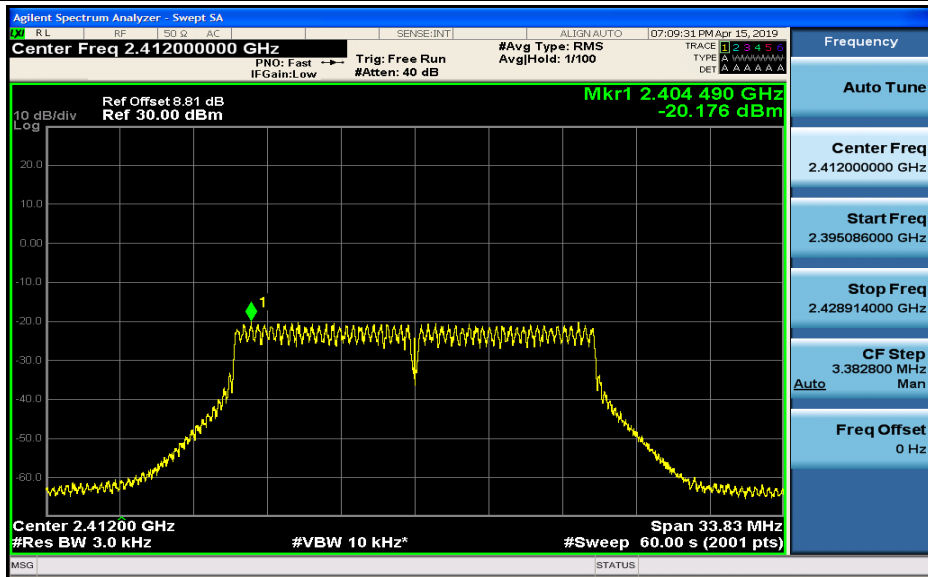
Maximum(average) power spectral density\_11B\_2437\_Ant1



Maximum(average) power spectral density\_11B\_2462\_Ant1

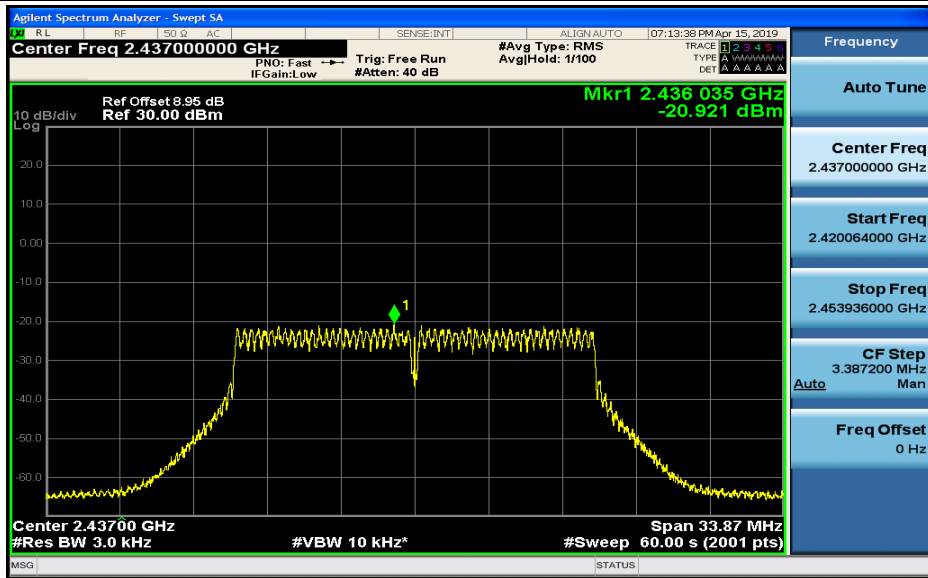


Maximum(average) power spectral density\_11G\_2412\_Ant1

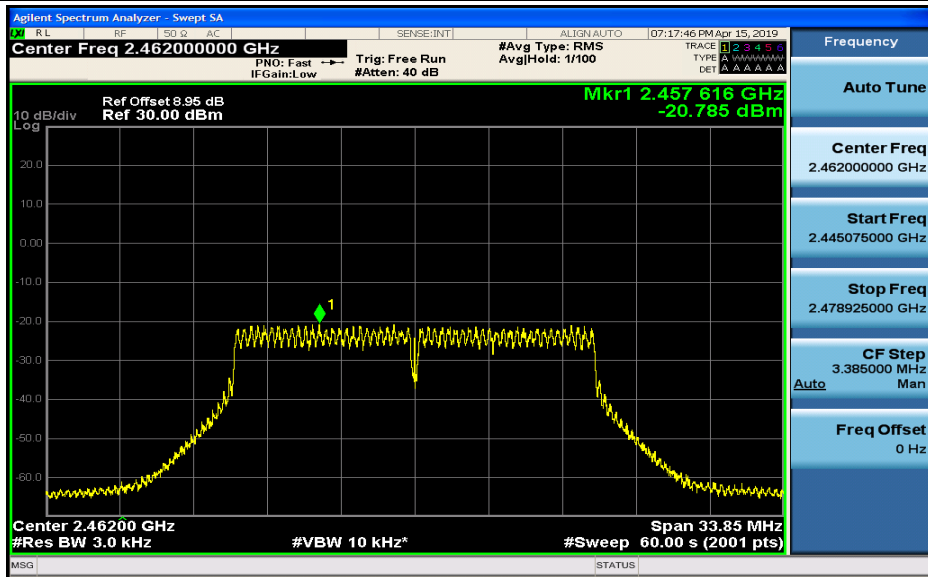


Maximum(average) power spectral density\_11G\_2437\_Ant1

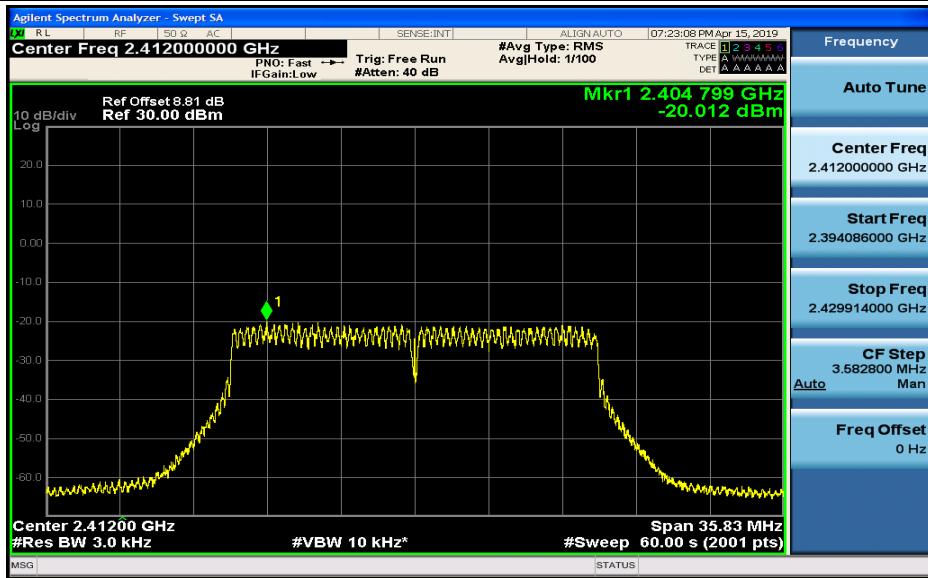




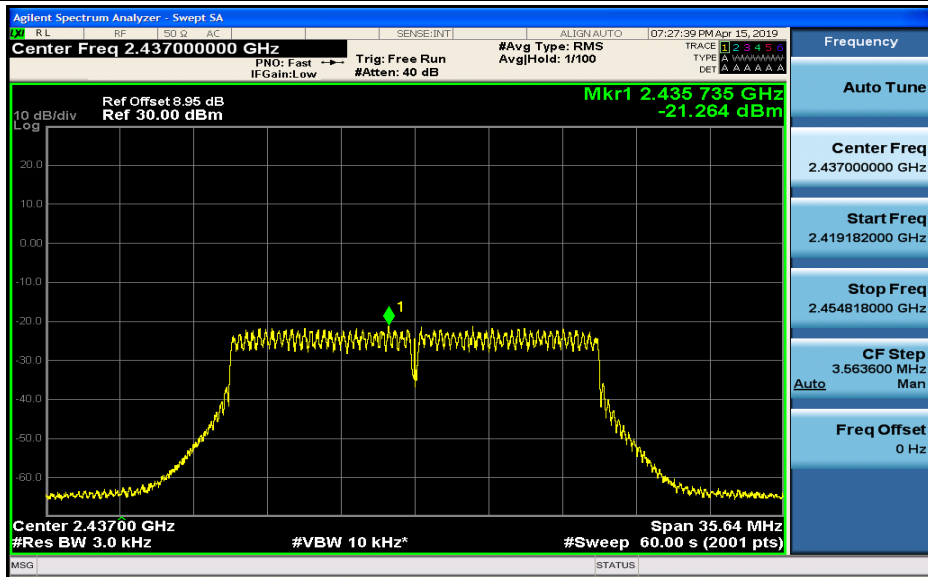
Maximum(average) power spectral density\_11G\_2462\_Ant1



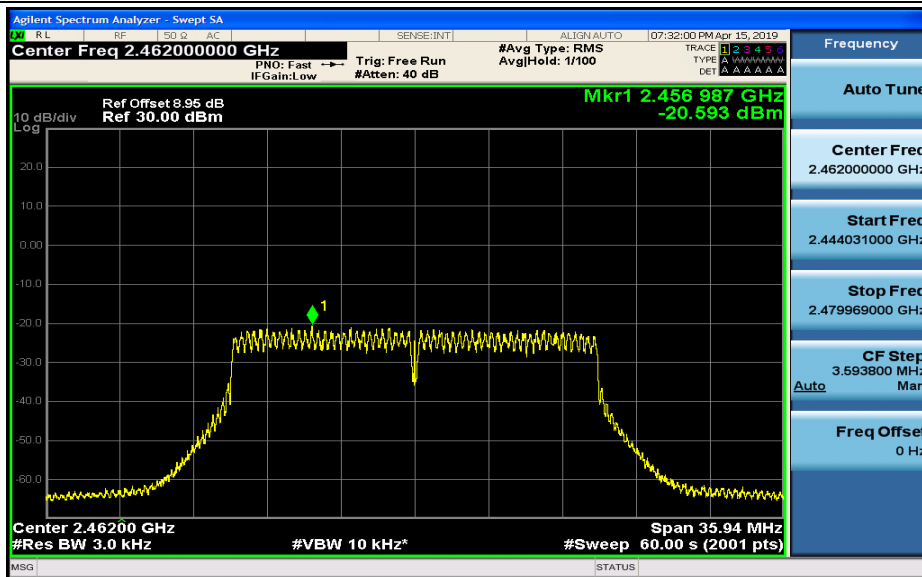
Maximum(average) power spectral density\_11N20SISO\_2412\_Ant1



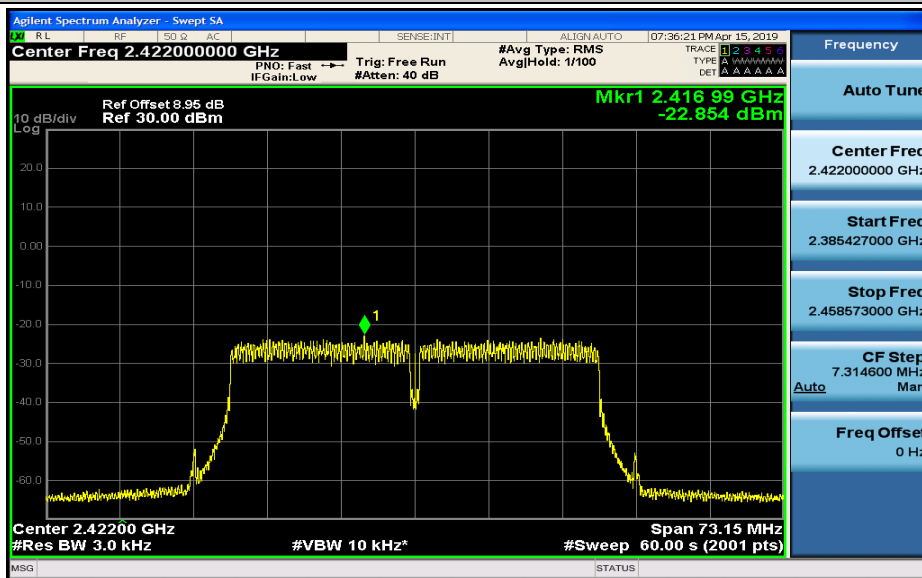
Maximum(average) power spectral density\_11N20SISO\_2437\_Ant1



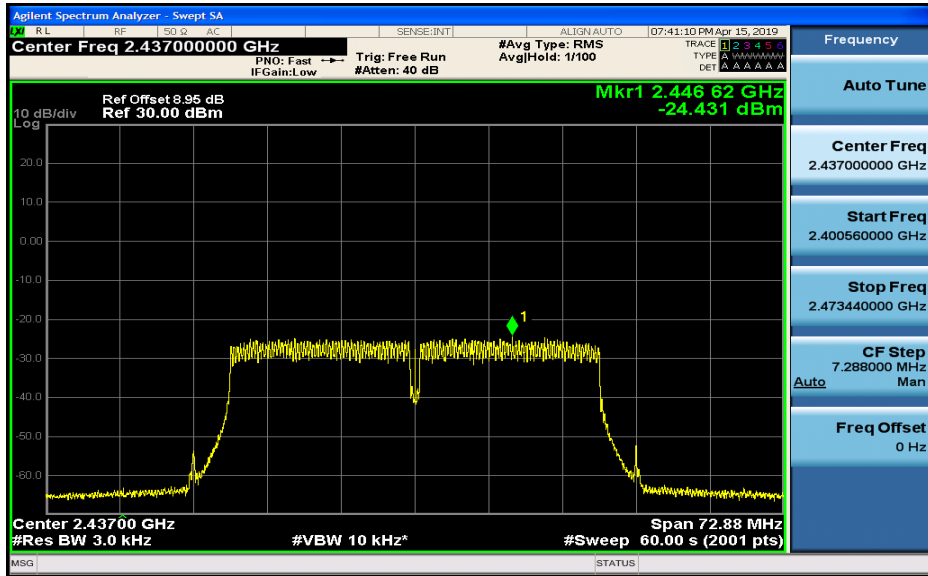
Maximum(average) power spectral density\_11N20SISO\_2462\_Ant1



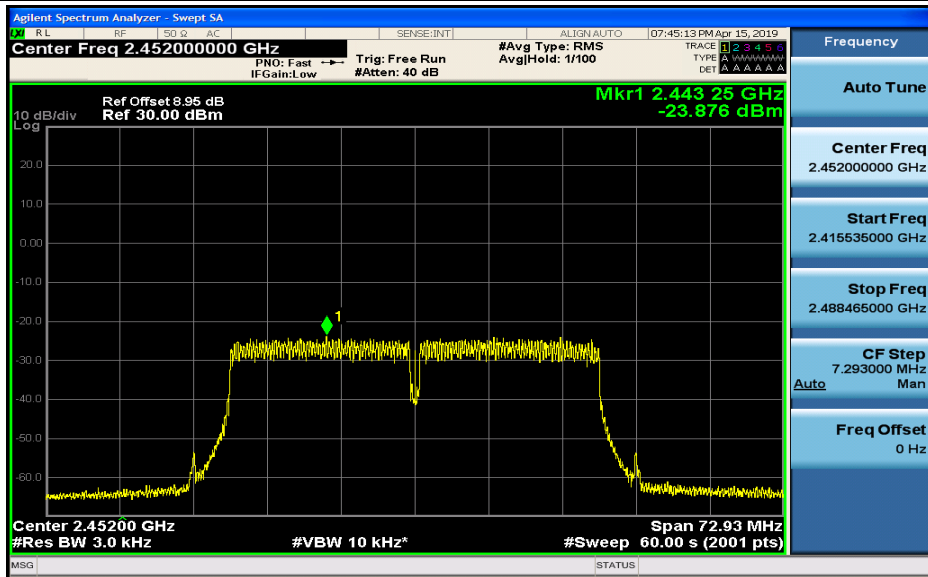
Maximum(average) power spectral density\_11N40SISO\_2422\_Ant1



Maximum(average) power spectral density\_11N40SISO\_2437\_Ant1



Maximum(average) power spectral density\_11N40SISO\_2452\_Ant1



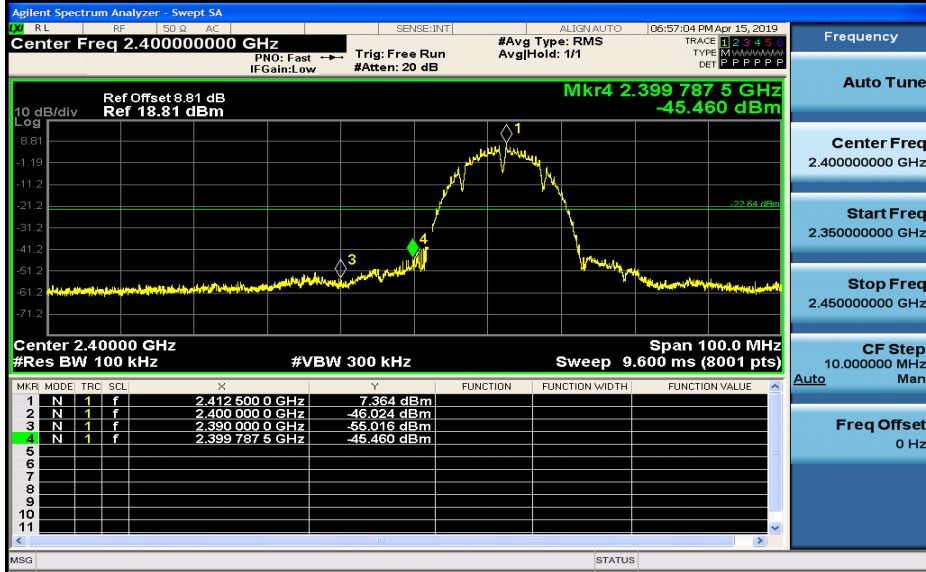


**5. Band-edge for RF Conducted Emissions**

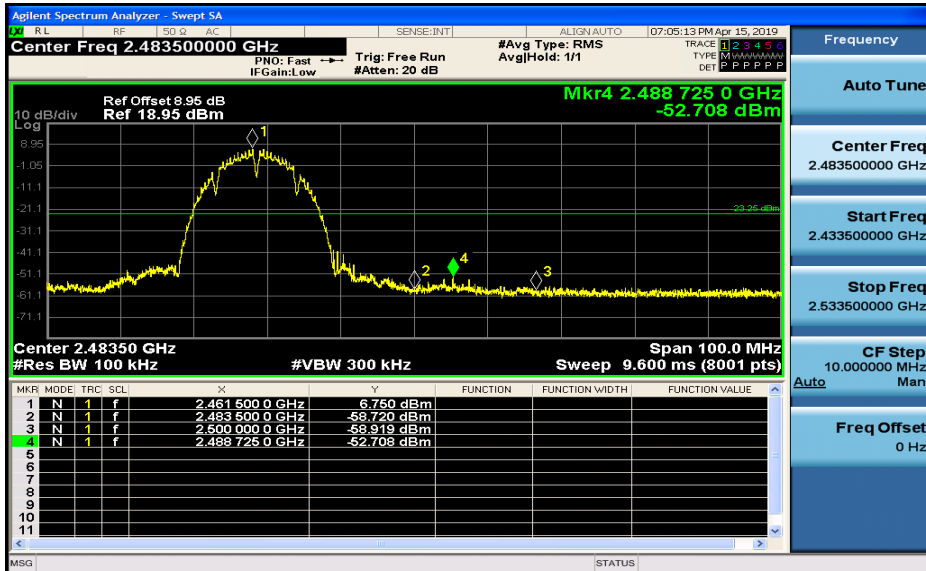
Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
11B	2412	Ant1	7.36	-45.46	-22.64	PASS
11B	2462	Ant1	6.75	-52.71	-23.25	PASS
11G	2412	Ant1	2.62	-32.60	-27.38	PASS
11G	2462	Ant1	2.29	-43.62	-27.71	PASS
11N20SISO	2412	Ant1	2.79	-33.26	-27.21	PASS
11N20SISO	2462	Ant1	2.13	-43.13	-27.87	PASS
11N40SISO	2422	Ant1	-0.02	-34.51	-30.02	PASS
11N40SISO	2452	Ant1	-0.34	-37.13	-30.34	PASS



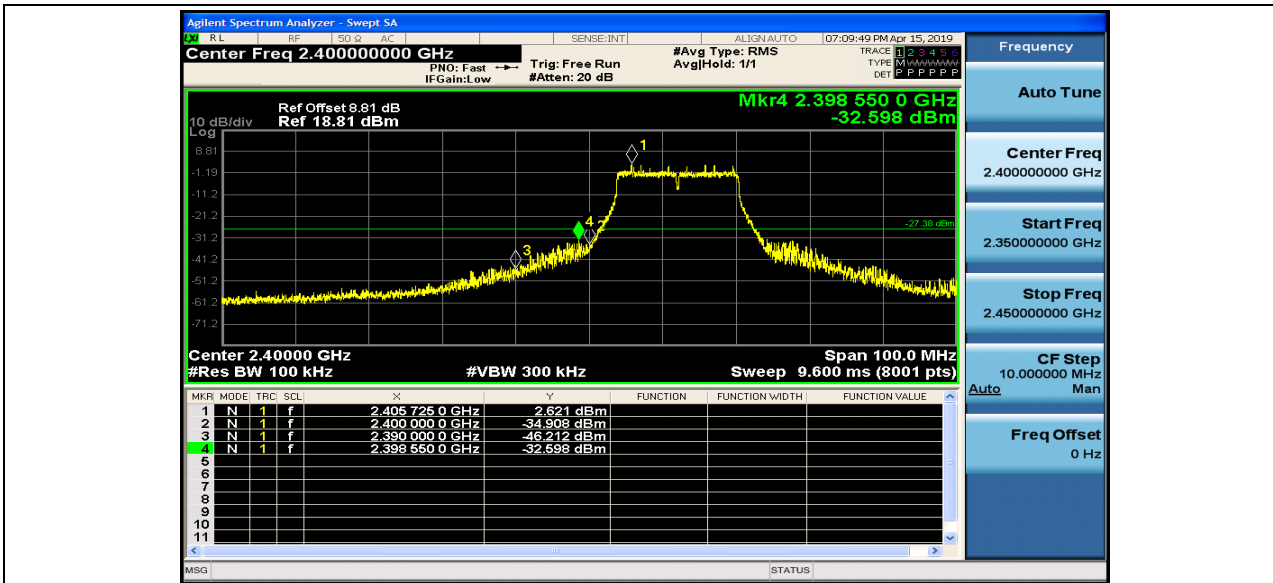
Band-edge for RF Conducted Emissions\_11B\_2412\_Ant1



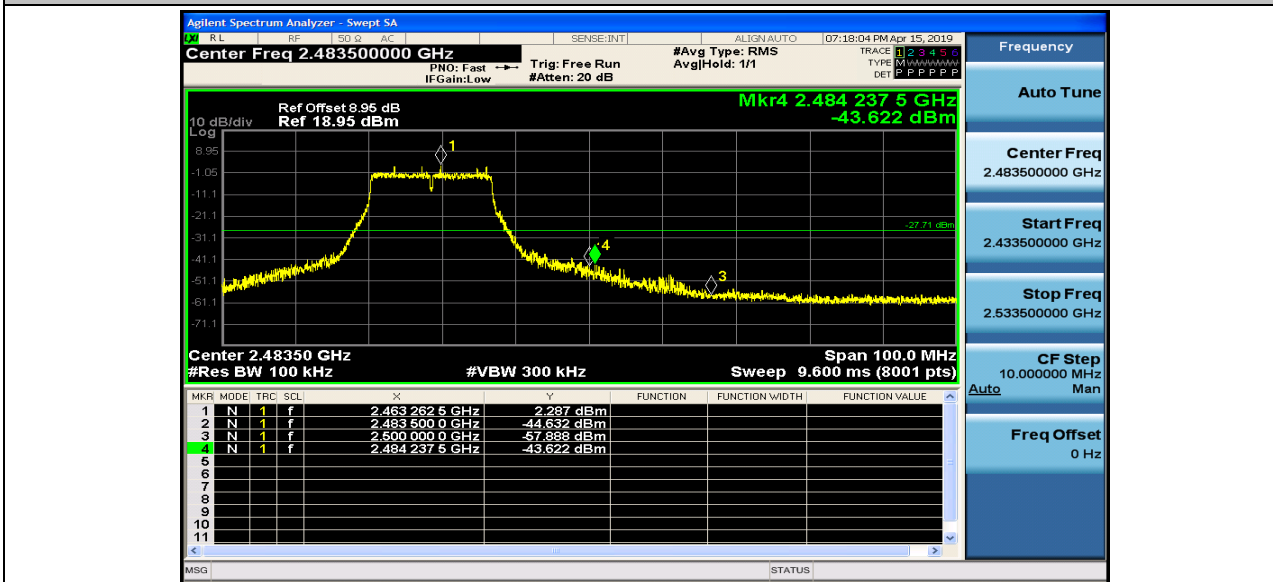
Band-edge for RF Conducted Emissions\_11B\_2462\_Ant1



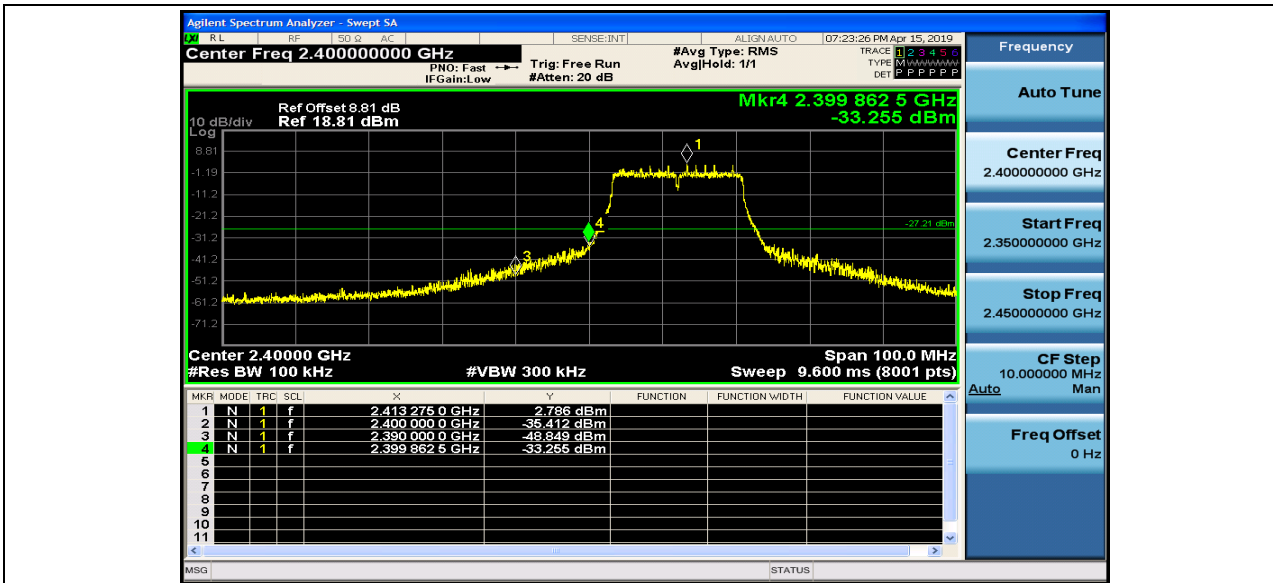
Band-edge for RF Conducted Emissions\_11G\_2412\_Ant1



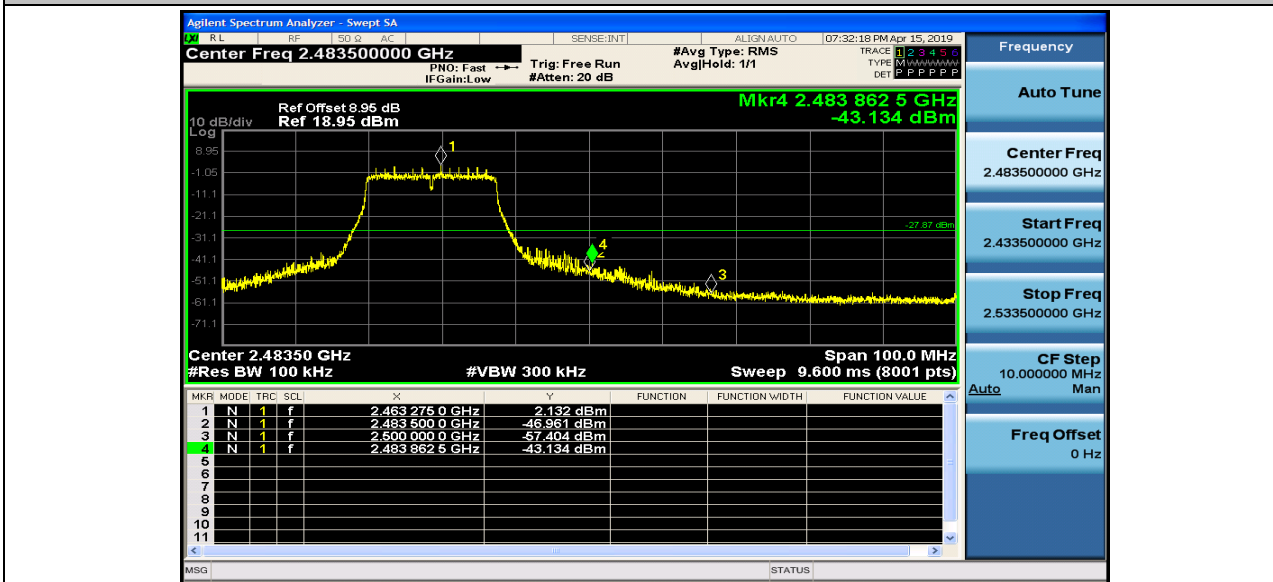
Band-edge for RF Conducted Emissions\_11G\_2462\_Ant1



Band-edge for RF Conducted Emissions\_11N20SISO\_2412\_Ant1

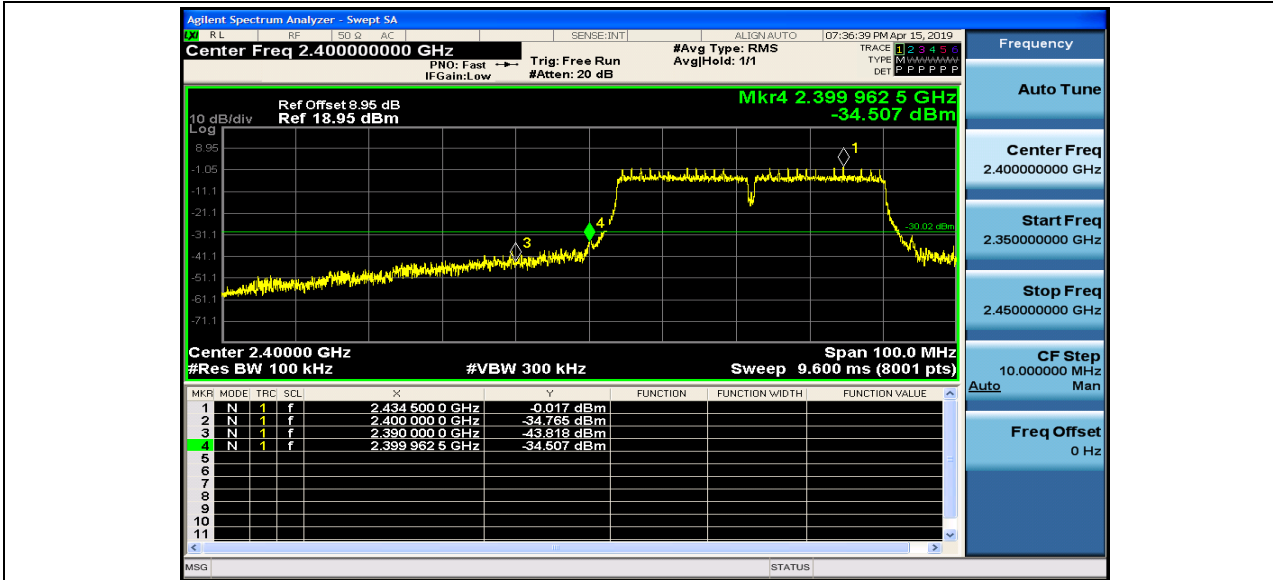


Band-edge for RF Conducted Emissions\_11N20SISO\_2462\_Ant1

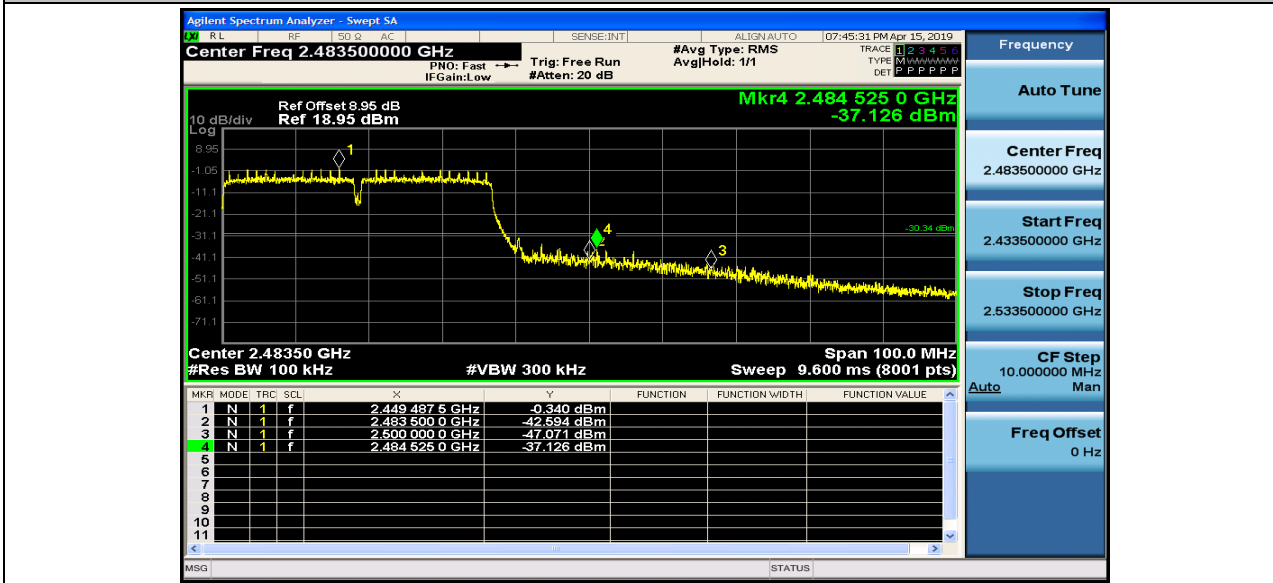


Band-edge for RF Conducted Emissions\_11N40SISO\_2422\_Ant1





Band-edge for RF Conducted Emissions\_11N40SISO\_2452\_Ant1





6.RF Conducted Spurious Emissions

Test Mode	Test Channel	Ant	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	2412	Ant1	30	10000	100	300	7.07	-53.74	<- 22.93	PASS
11B	2412	Ant1	10000	26000	100	300	7.067	-43.866	<- 22.933	PASS
11B	2437	Ant1	30	10000	100	300	5.79	-54.12	<- 24.21	PASS
11B	2437	Ant1	10000	26000	100	300	5.788	-43.213	<- 24.212	PASS
11B	2462	Ant1	30	10000	100	300	6.90	-53.63	<- 23.10	PASS
11B	2462	Ant1	10000	26000	100	300	6.898	-44.125	<- 23.102	PASS
11G	2412	Ant1	30	10000	100	300	3.01	-54.05	<- 26.99	PASS
11G	2412	Ant1	10000	26000	100	300	3.009	-44.157	<- 26.991	PASS
11G	2437	Ant1	30	10000	100	300	2.03	-52.36	<- 27.97	PASS
11G	2437	Ant1	10000	26000	100	300	2.032	-43.651	<- 27.968	PASS
11G	2462	Ant1	30	10000	100	300	2.17	-53.51	<- 27.83	PASS
11G	2462	Ant1	10000	26000	100	300	2.17	-44.236	<- 27.83	PASS
11N20SISO	2412	Ant1	30	10000	100	300	3.04	-53.84	<- 26.97	PASS
11N20SISO	2412	Ant1	10000	26000	100	300	3.035	-43.490	<- 26.965	PASS
11N20SISO	2437	Ant1	30	10000	100	300	1.77	-54.43	<- 28.23	PASS
11N20SISO	2437	Ant1	10000	26000	100	300	1.773	-44.508	<- 28.227	PASS
11N20SISO	2462	Ant1	30	10000	100	300	2.17	-52.91	<- 27.83	PASS
11N20SISO	2462	Ant1	10000	26000	100	300	2.169	-43.397	<- 27.831	PASS
11N40SISO	2422	Ant1	30	10000	100	300	0.12	-53.62	<- 29.88	PASS
11N40SISO	2422	Ant1	10000	26000	100	300	0.117	-43.734	<- 29.883	PASS



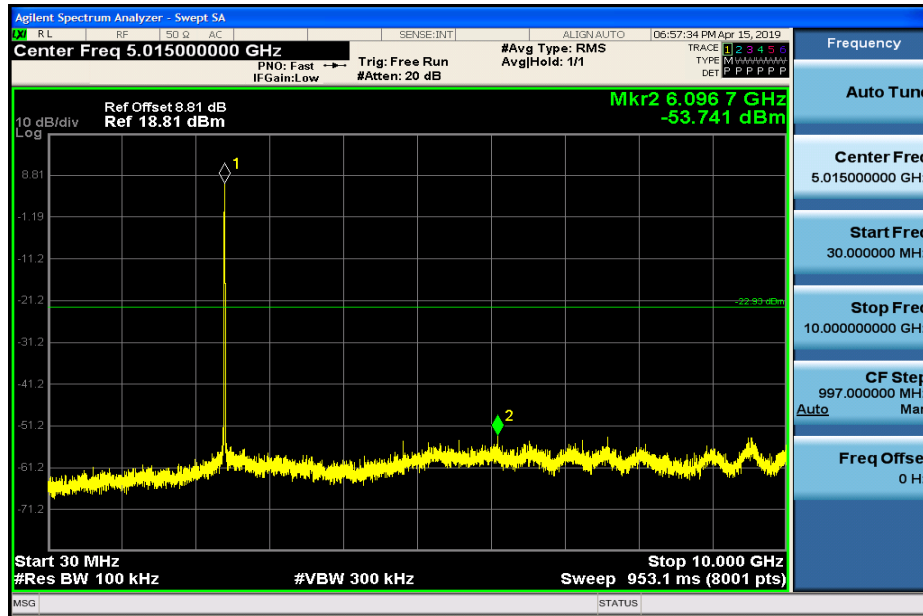
**SGS-CSTC Standards Technical Services Co., Ltd. Shanghai  
Branch**

Report No.: SHEM190401233901  
Page: 82 of 107

11N40SISO	2437	Ant1	30	10000	100	300	-0.83	-54.32	<- 30.83	PASS
11N40SISO	2437	Ant1	10000	26000	100	300	-0.829	-43.812	<- 30.829	PASS
11N40SISO	2452	Ant1	30	10000	100	300	-0.40	-53.71	<- 30.40	PASS
11N40SISO	2452	Ant1	10000	26000	100	300	-0.397	-44.060	<- 30.397	PASS



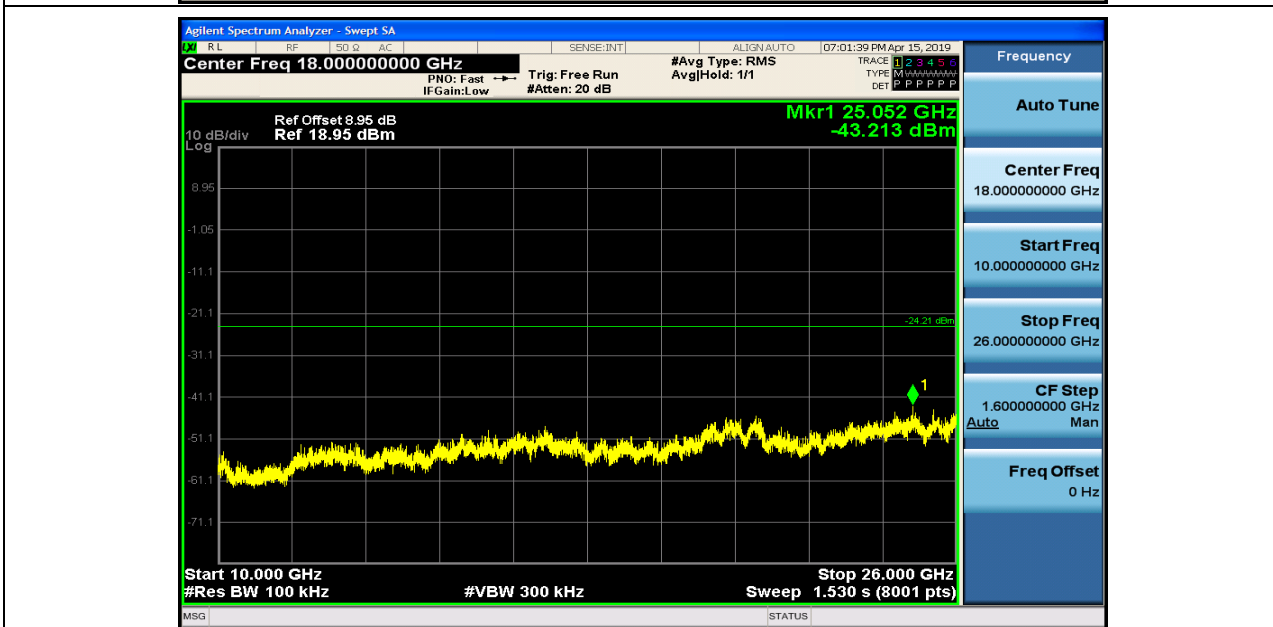
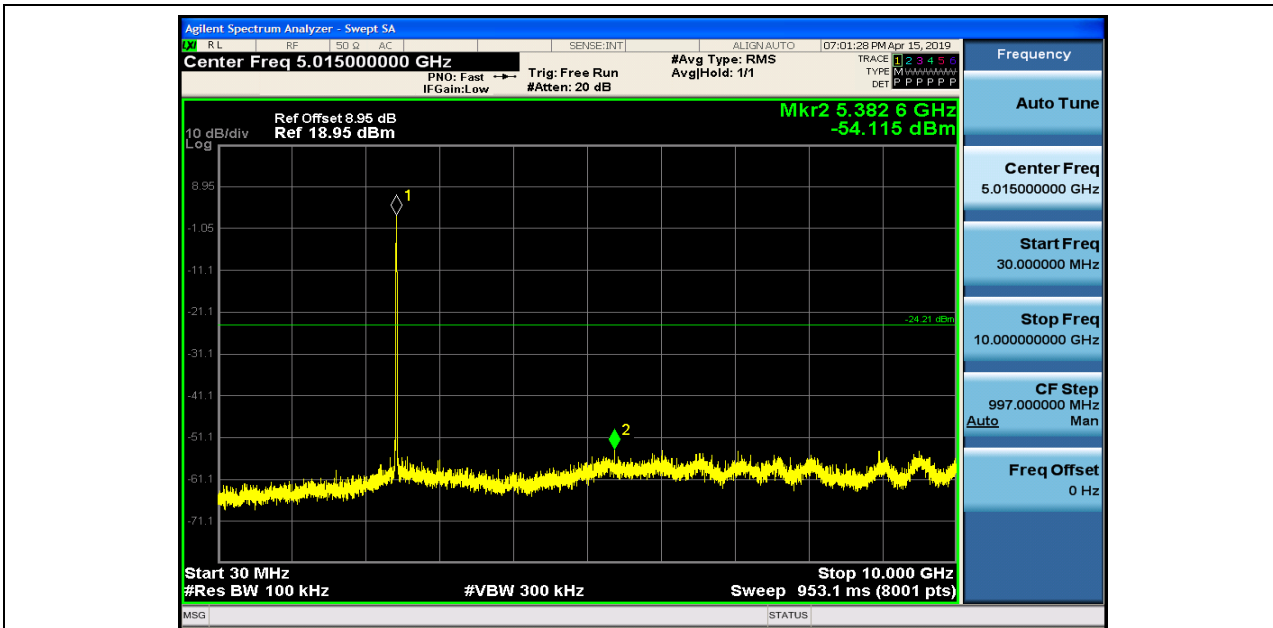
RF Conducted Spurious Emissions\_11B\_2412



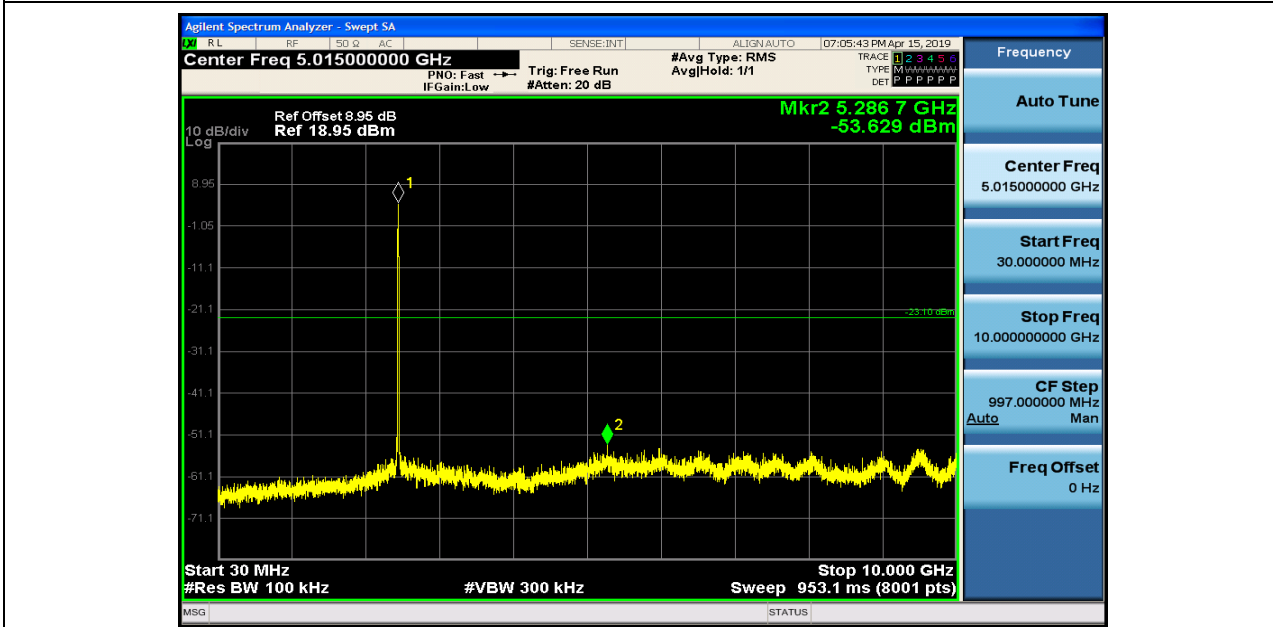
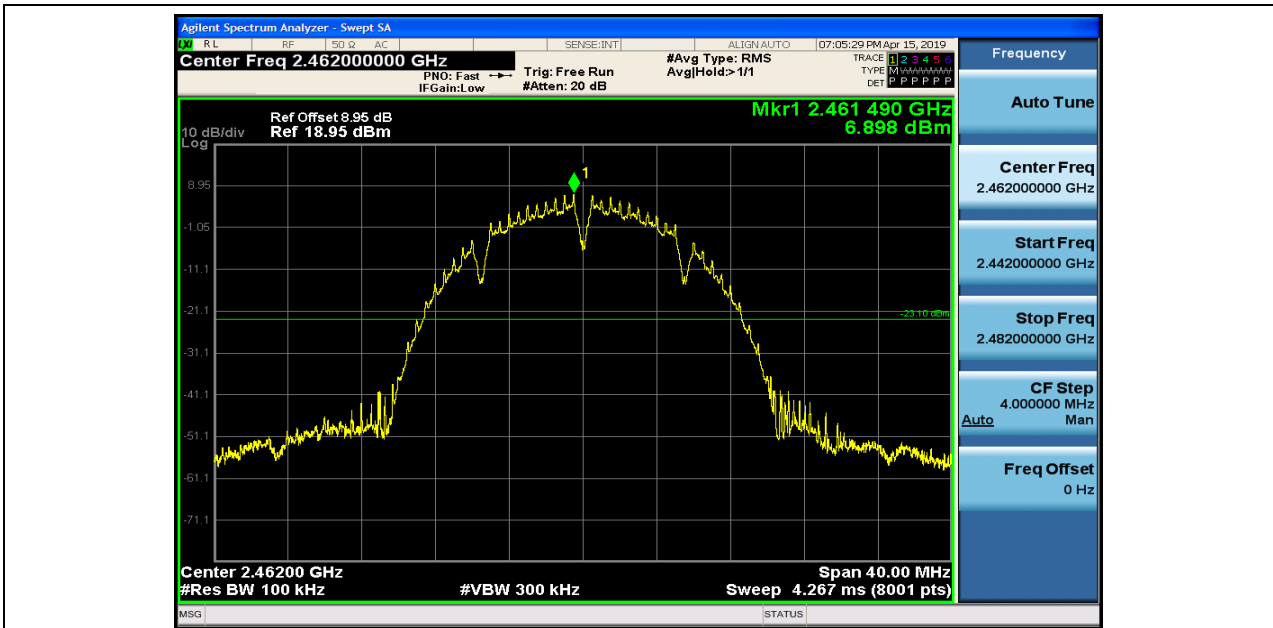


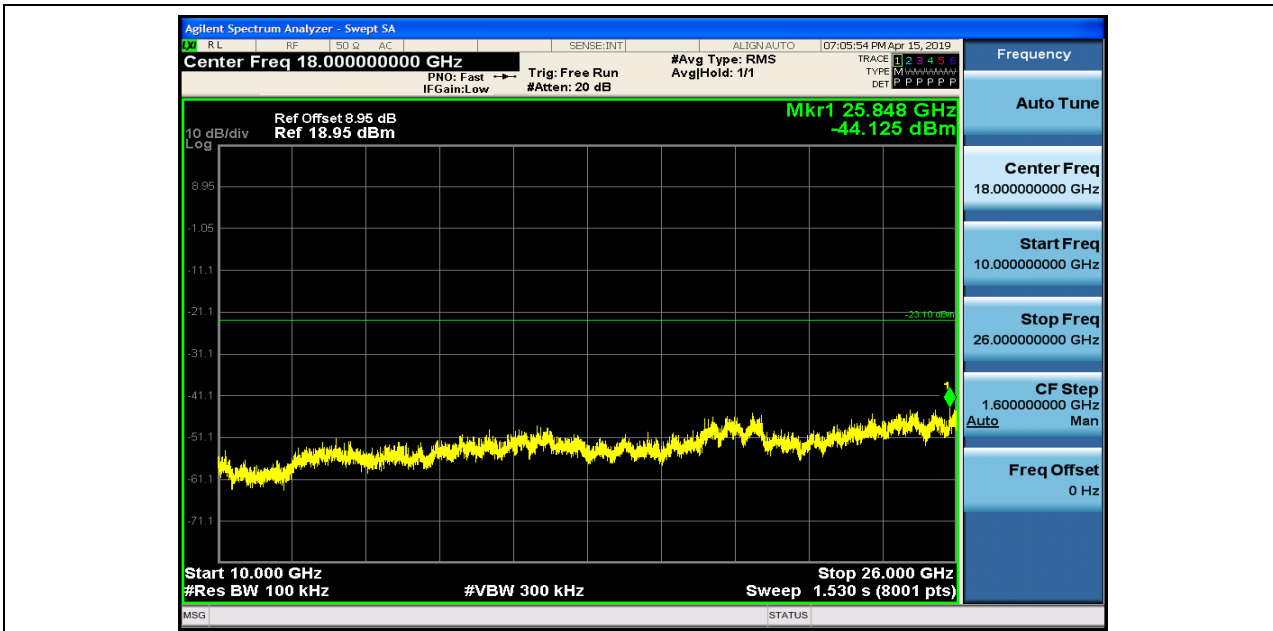
RF Conducted Spurious Emissions\_11B\_2437



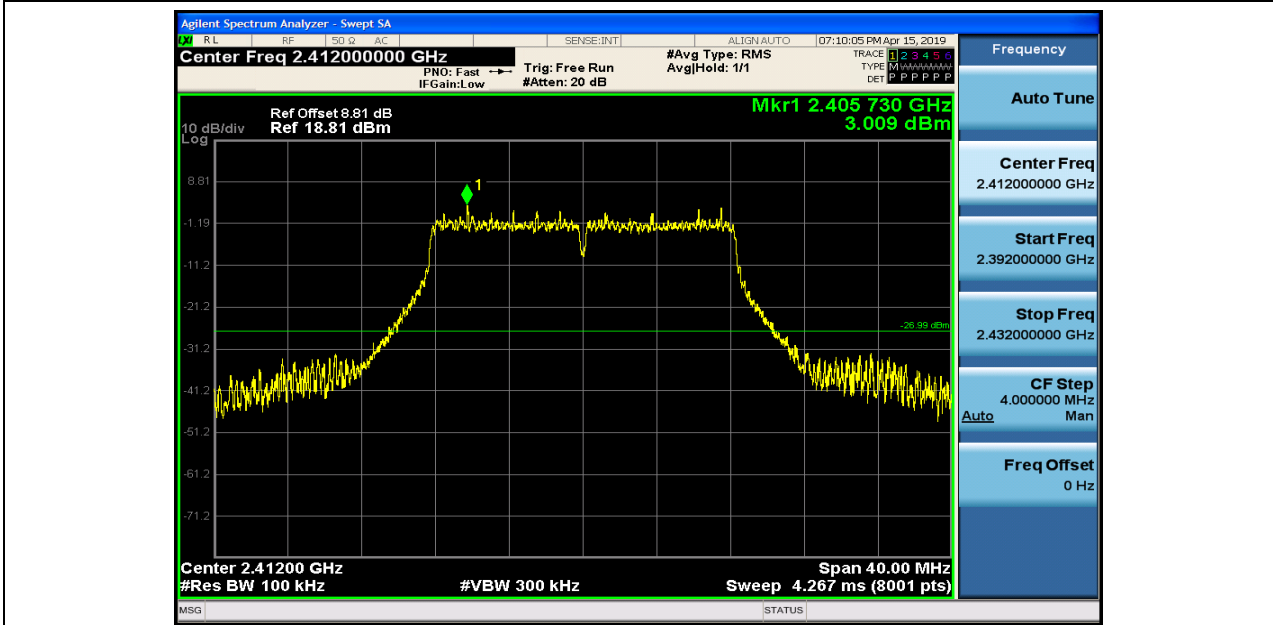


RF Conducted Spurious Emissions\_11B\_2462

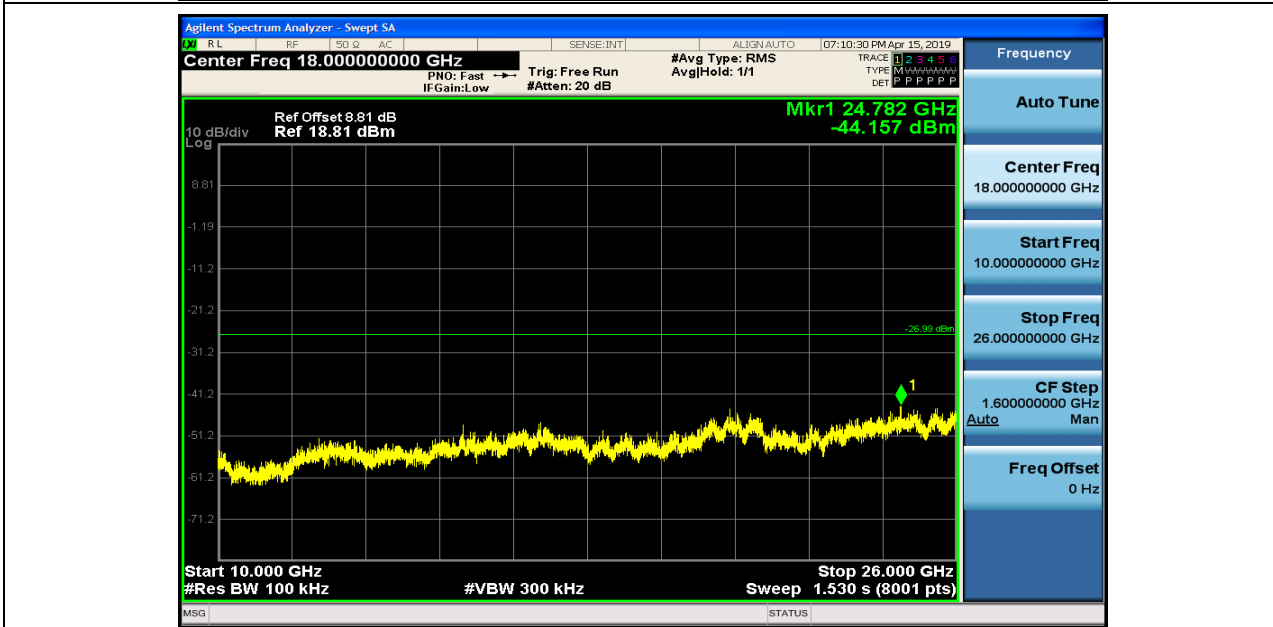
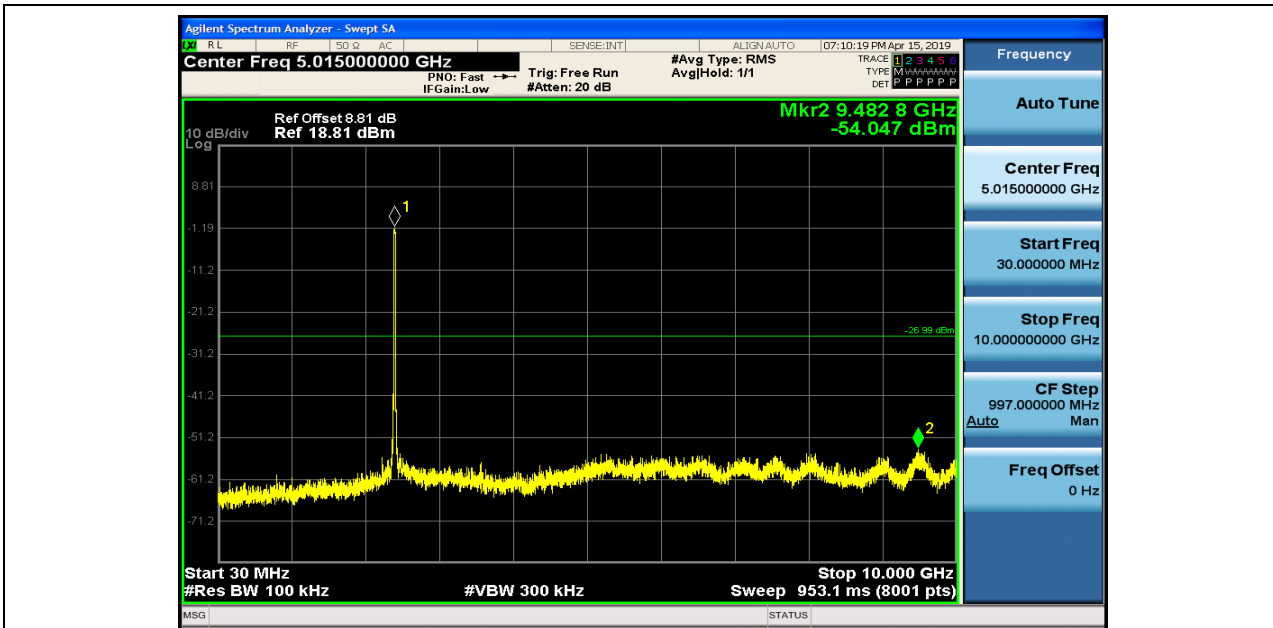




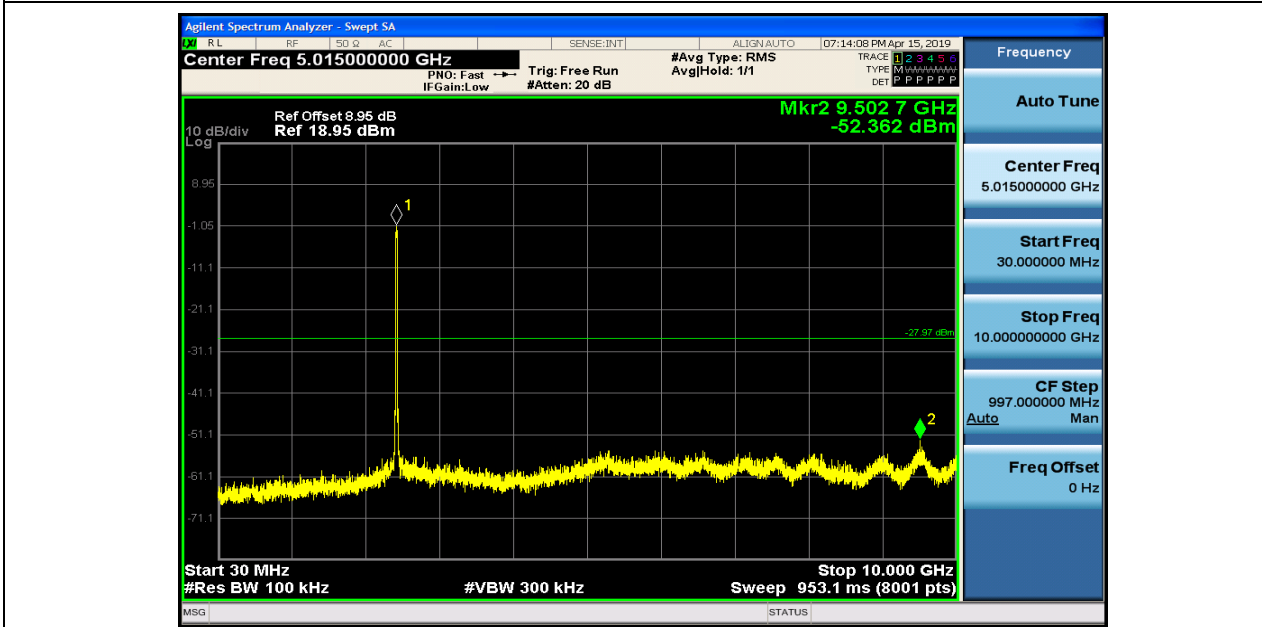
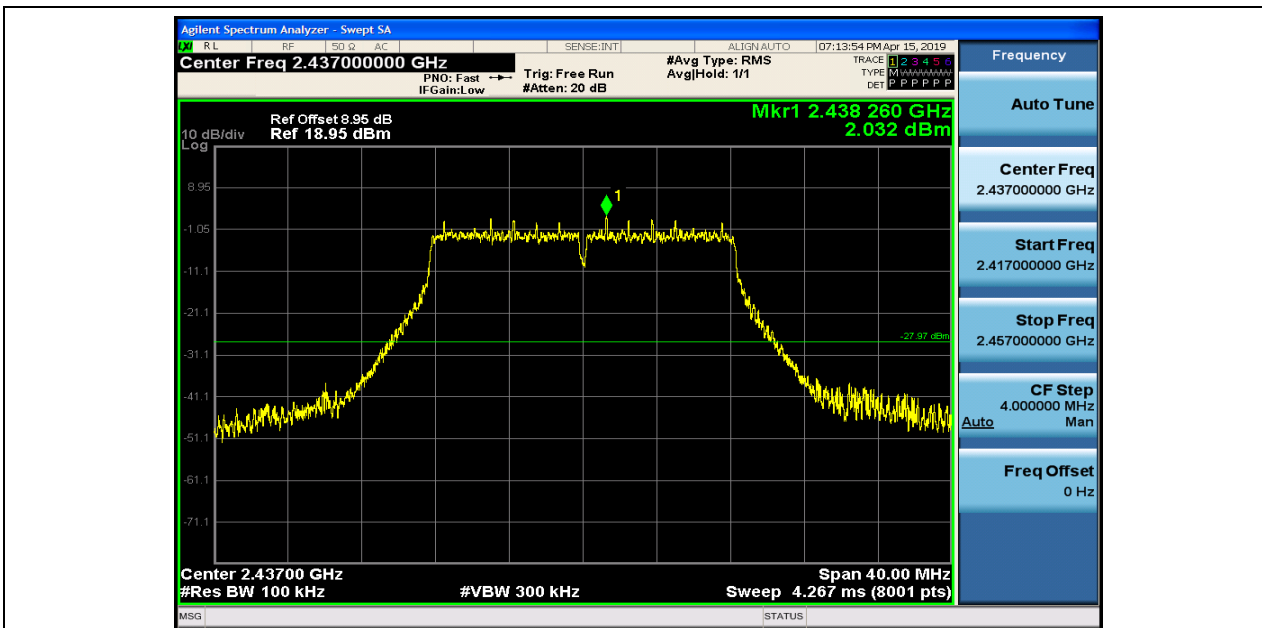
RF Conducted Spurious Emissions\_11G\_2412

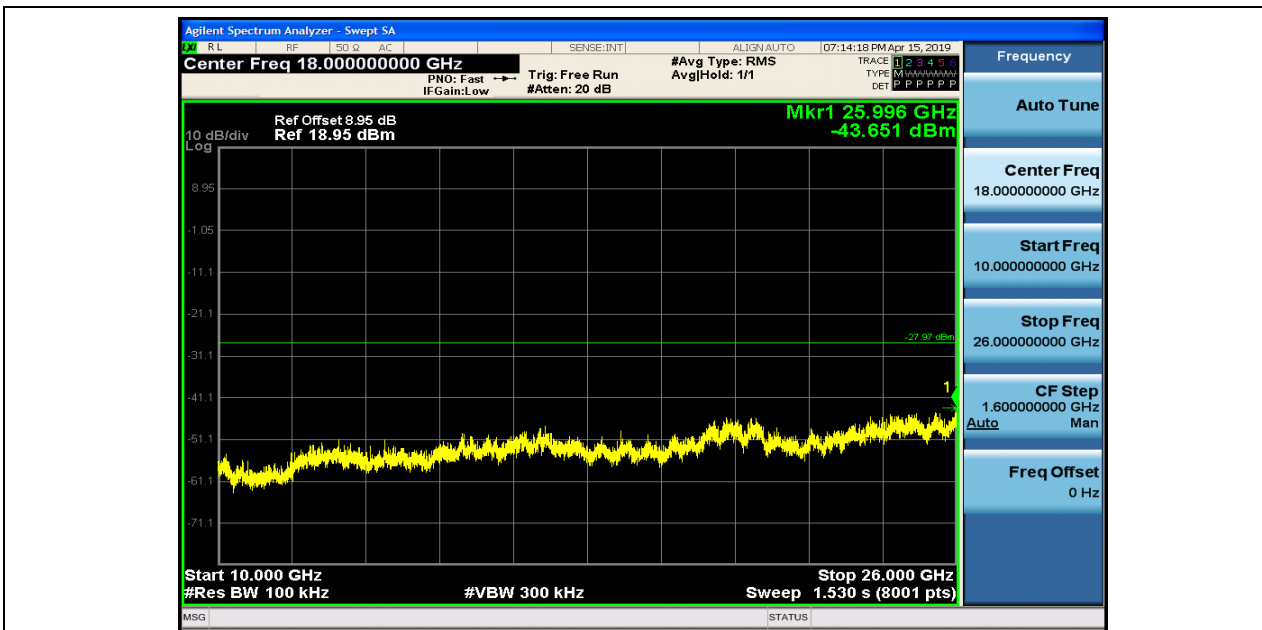




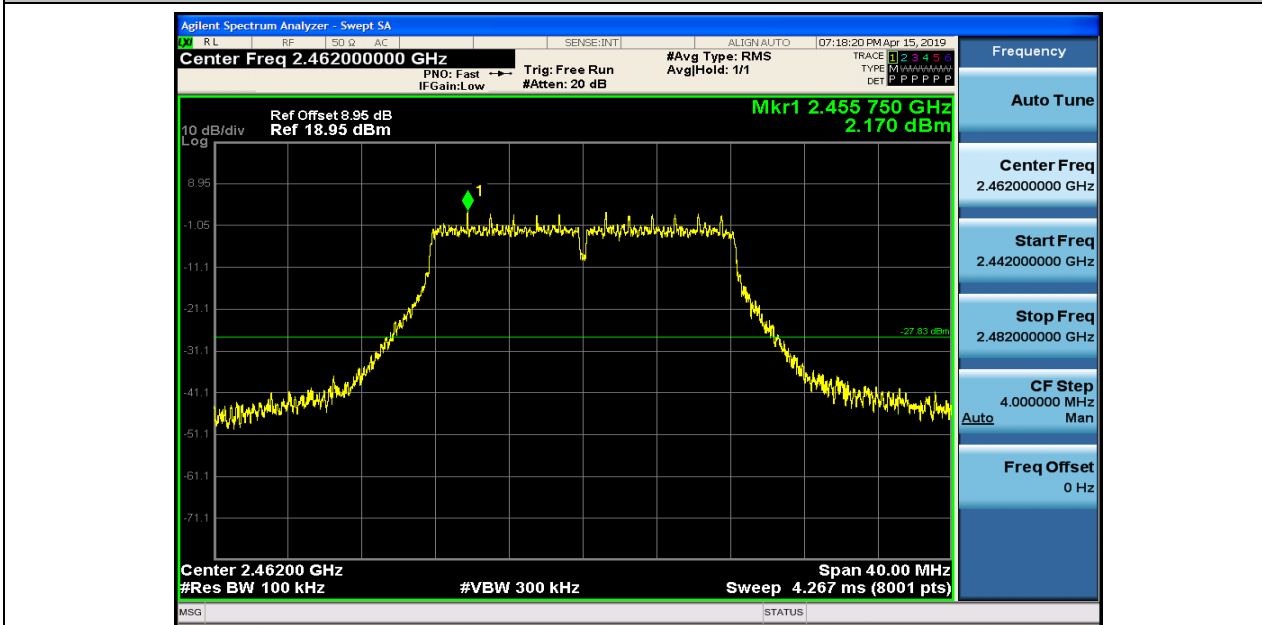


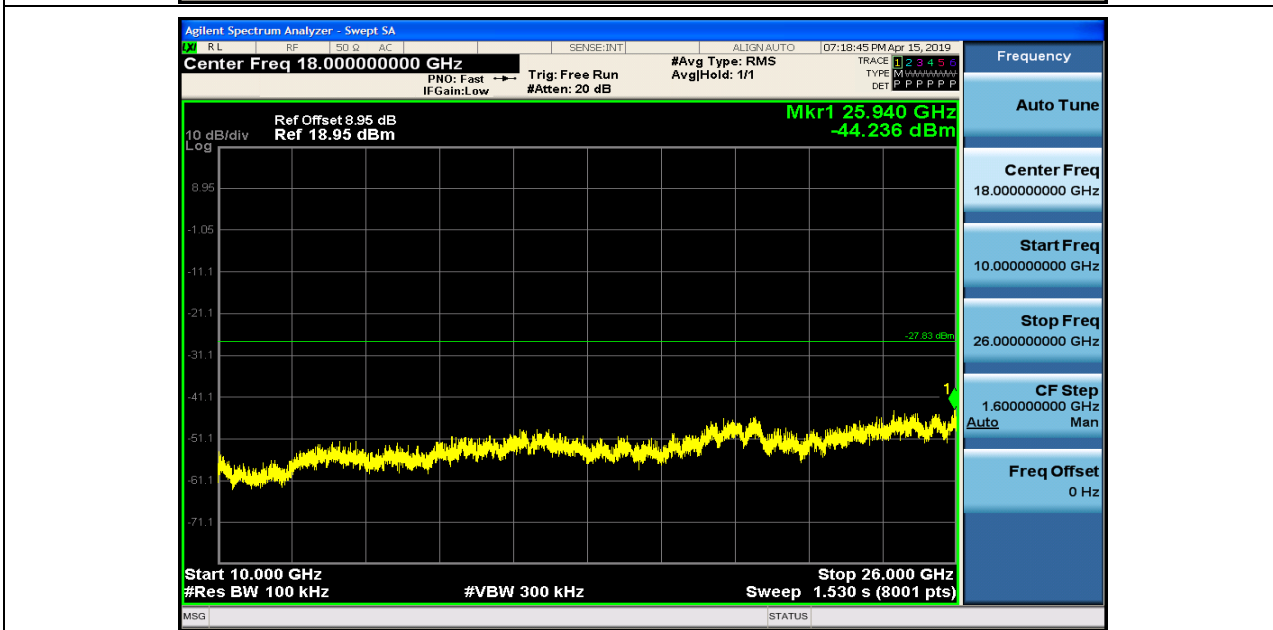
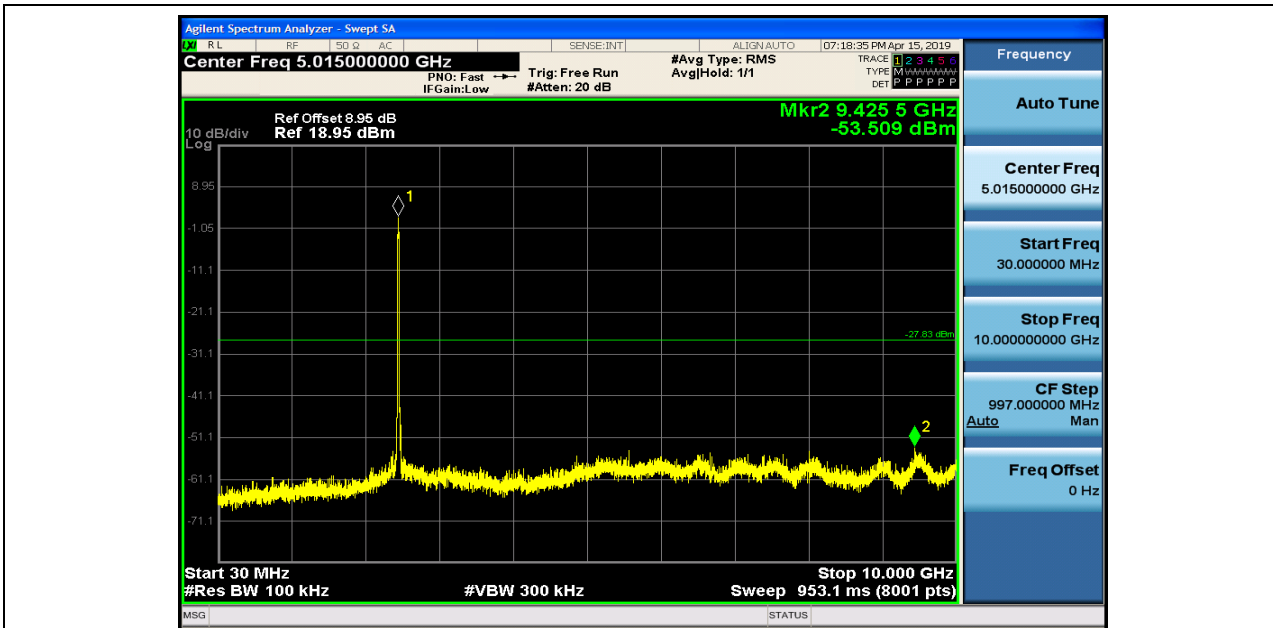
RF Conducted Spurious Emissions\_11G\_2437



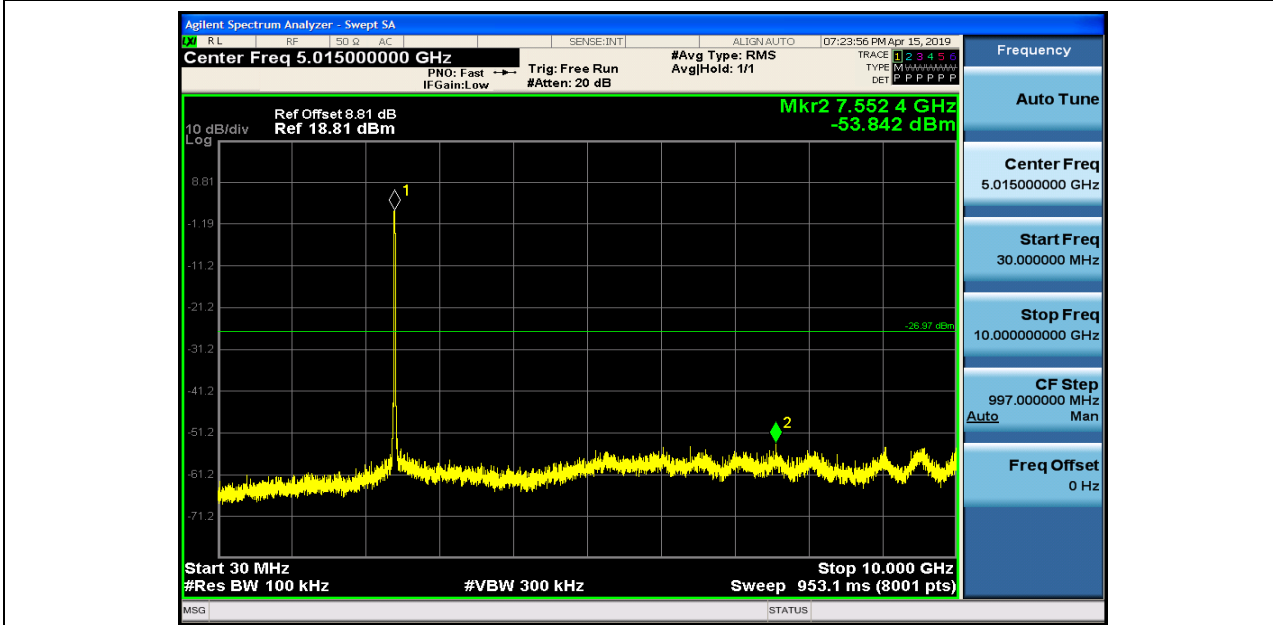
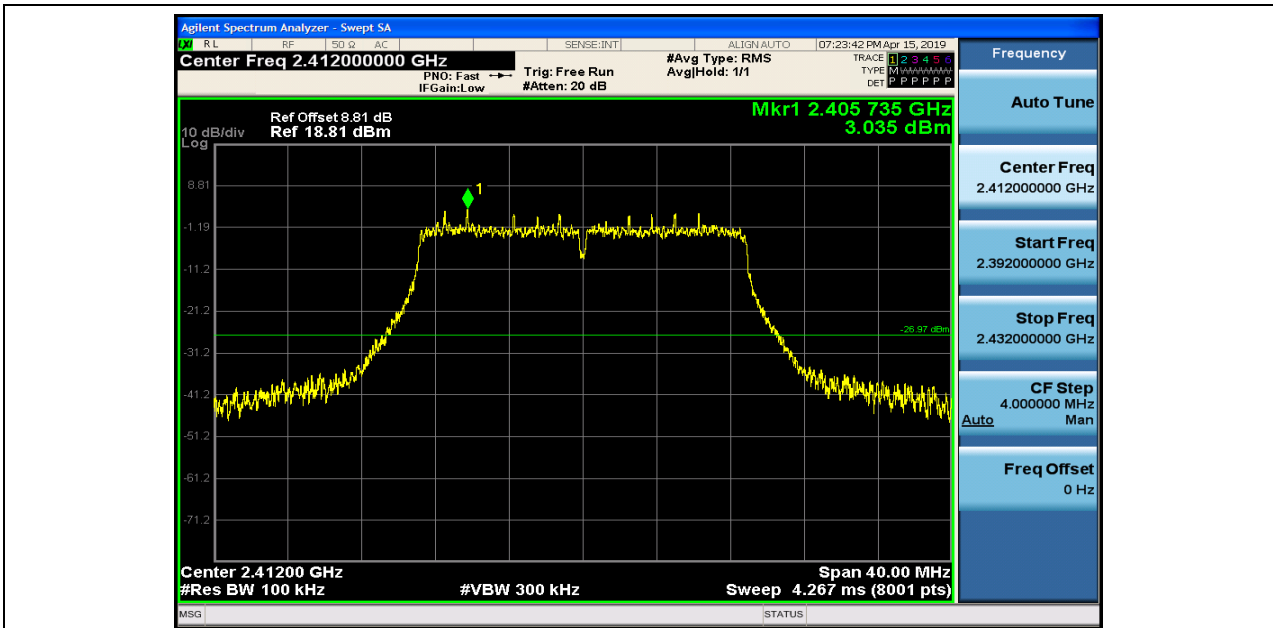


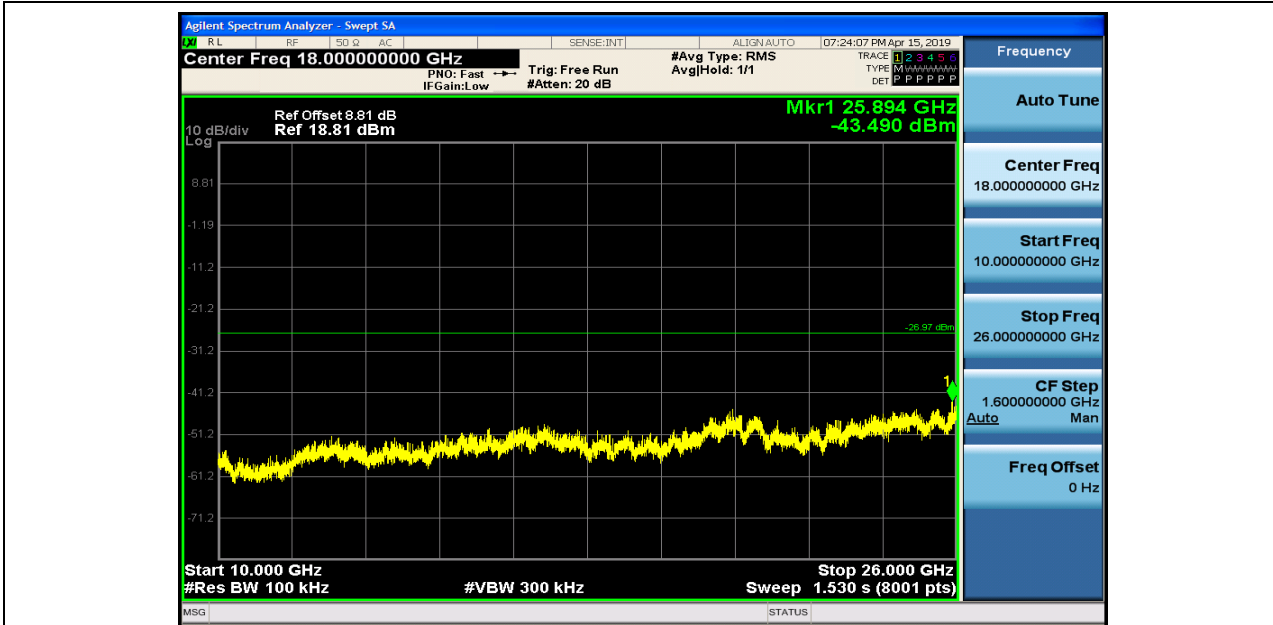
RF Conducted Spurious Emissions\_11G\_2462



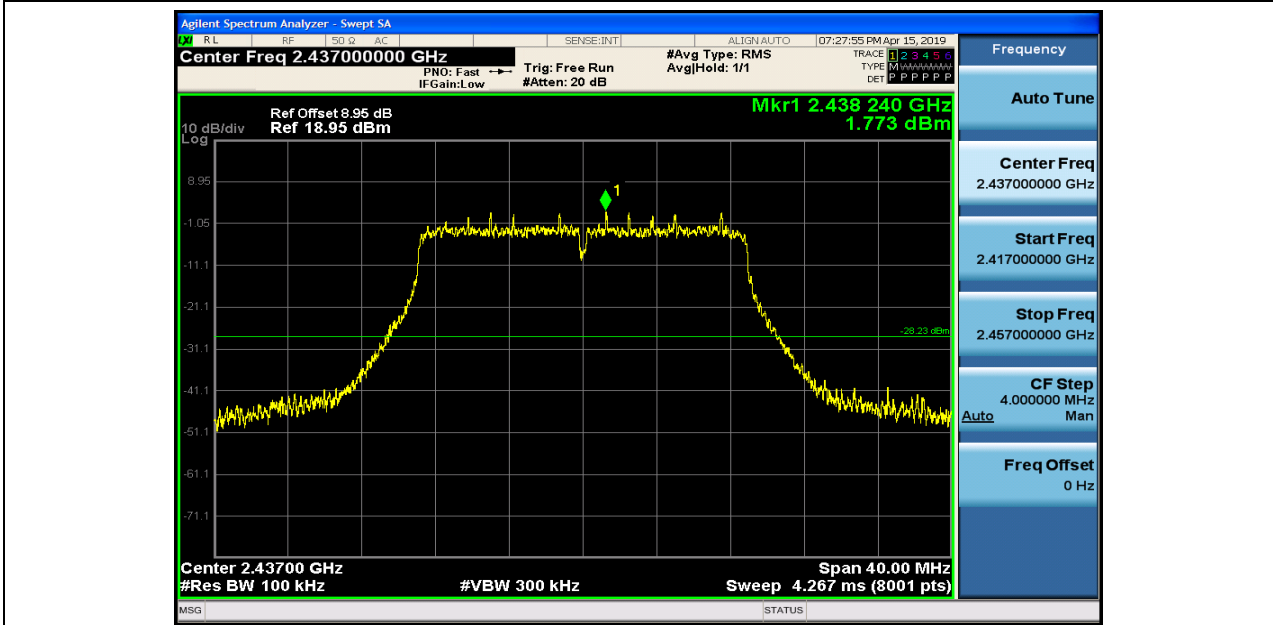


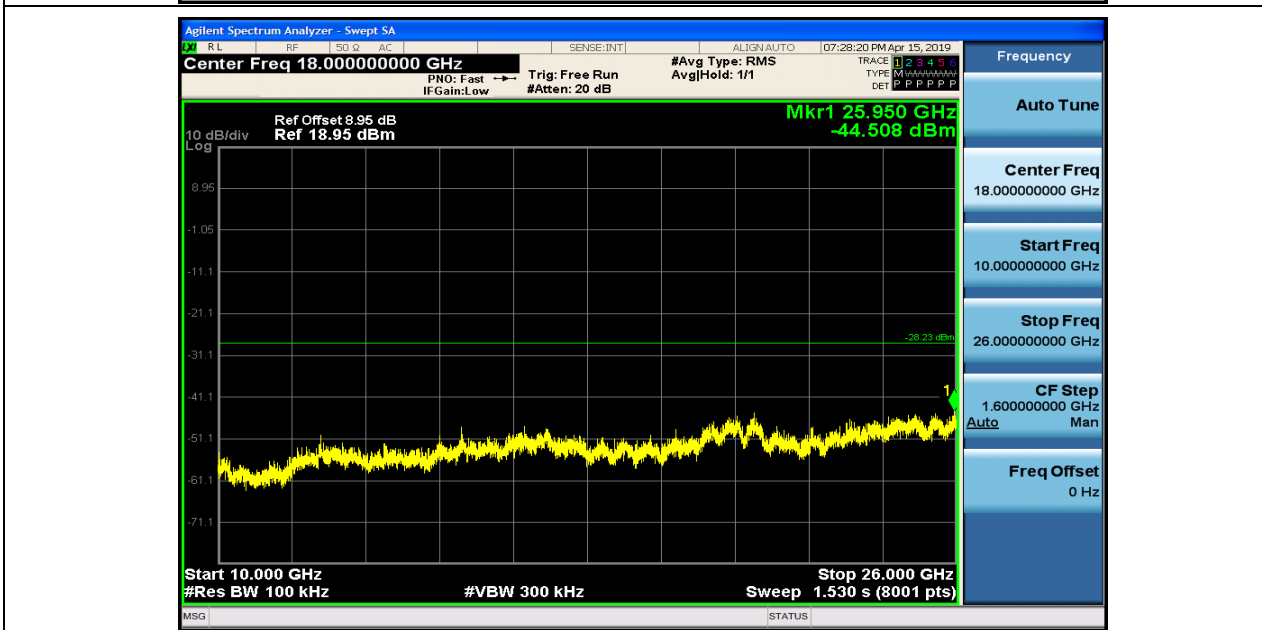
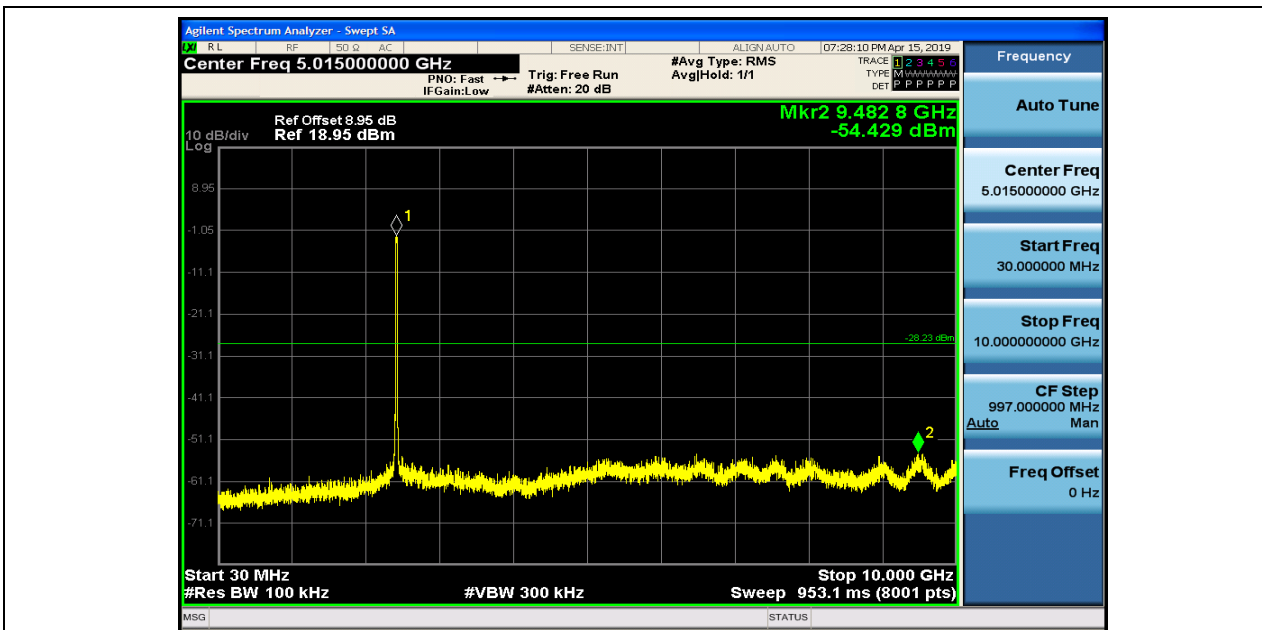
RF Conducted Spurious Emissions\_11N20SISO\_2412



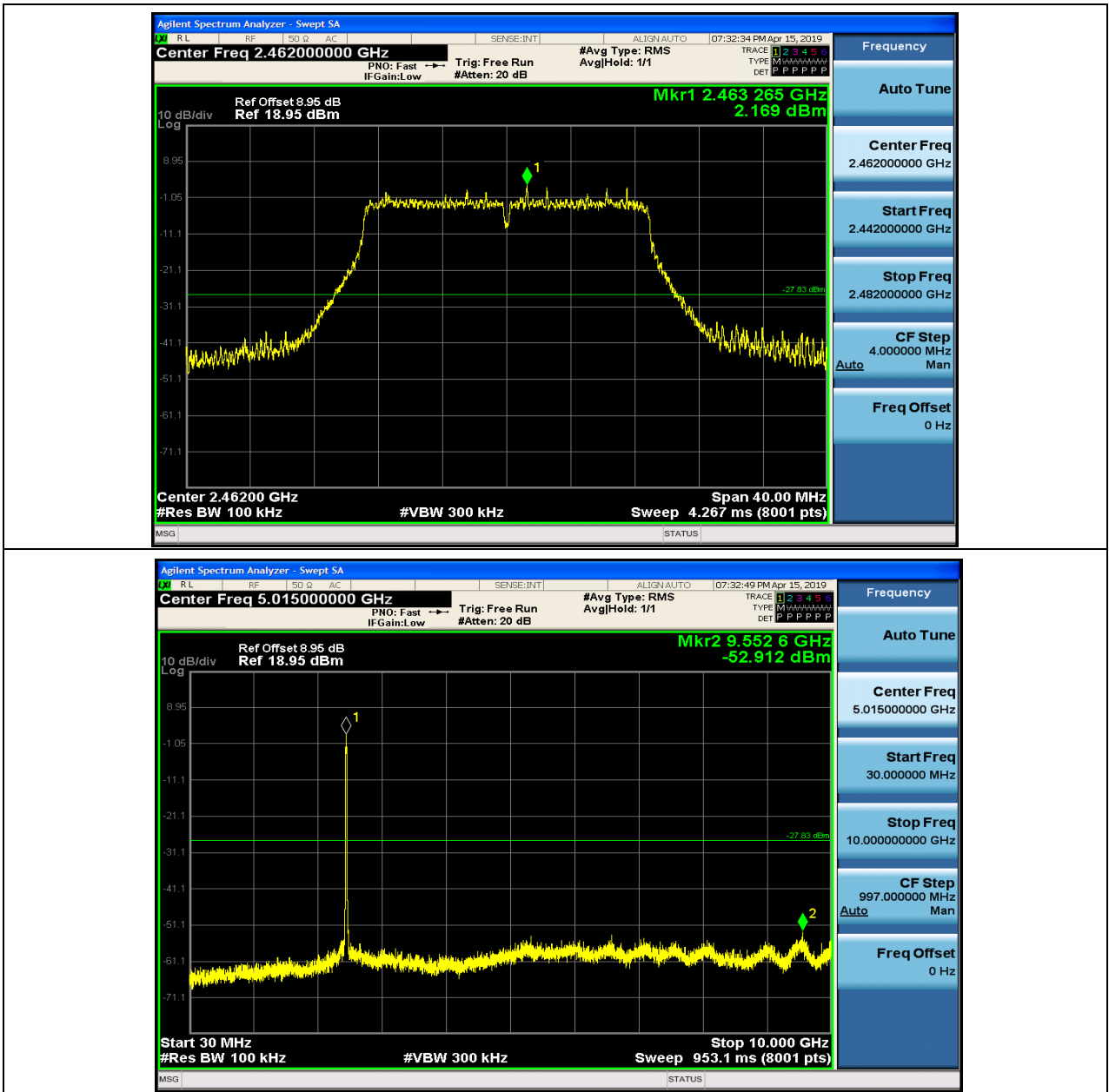


RF Conducted Spurious Emissions\_11N20SISO\_2437

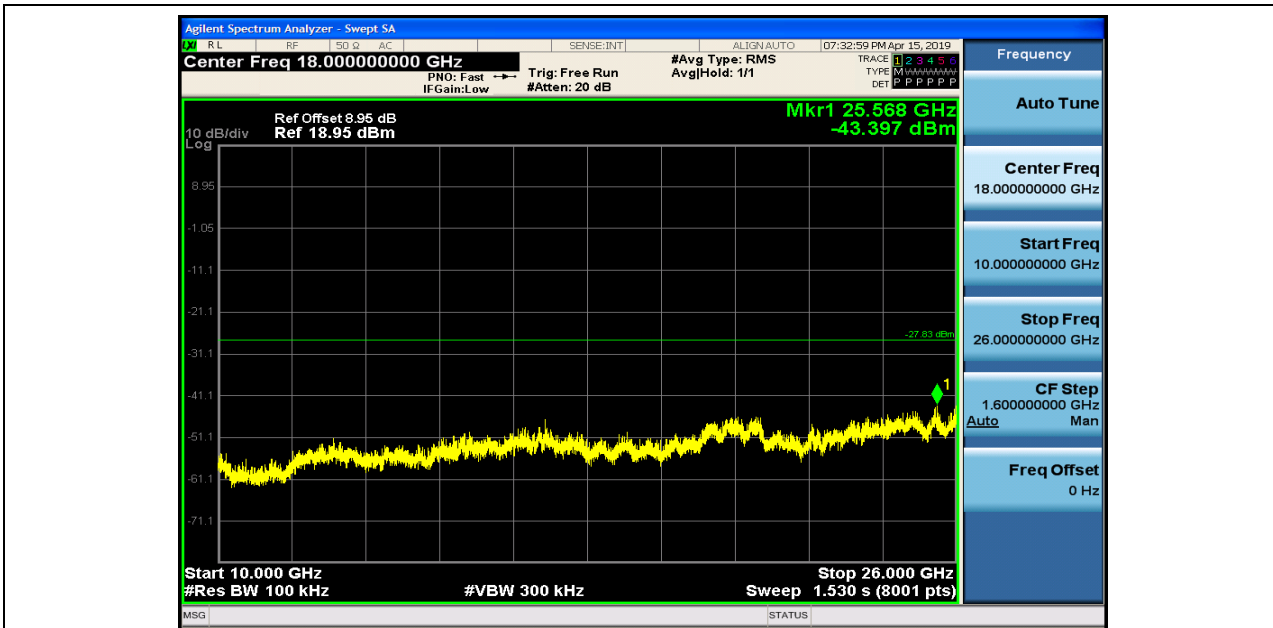




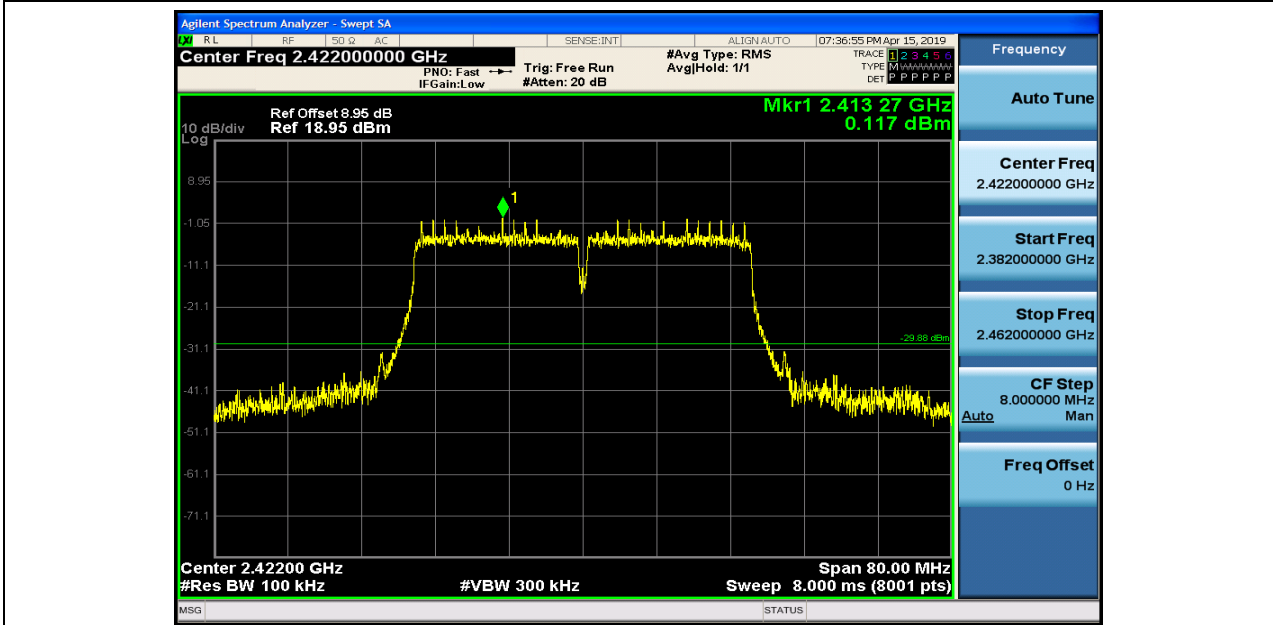
RF Conducted Spurious Emissions\_11N20SISO\_2462

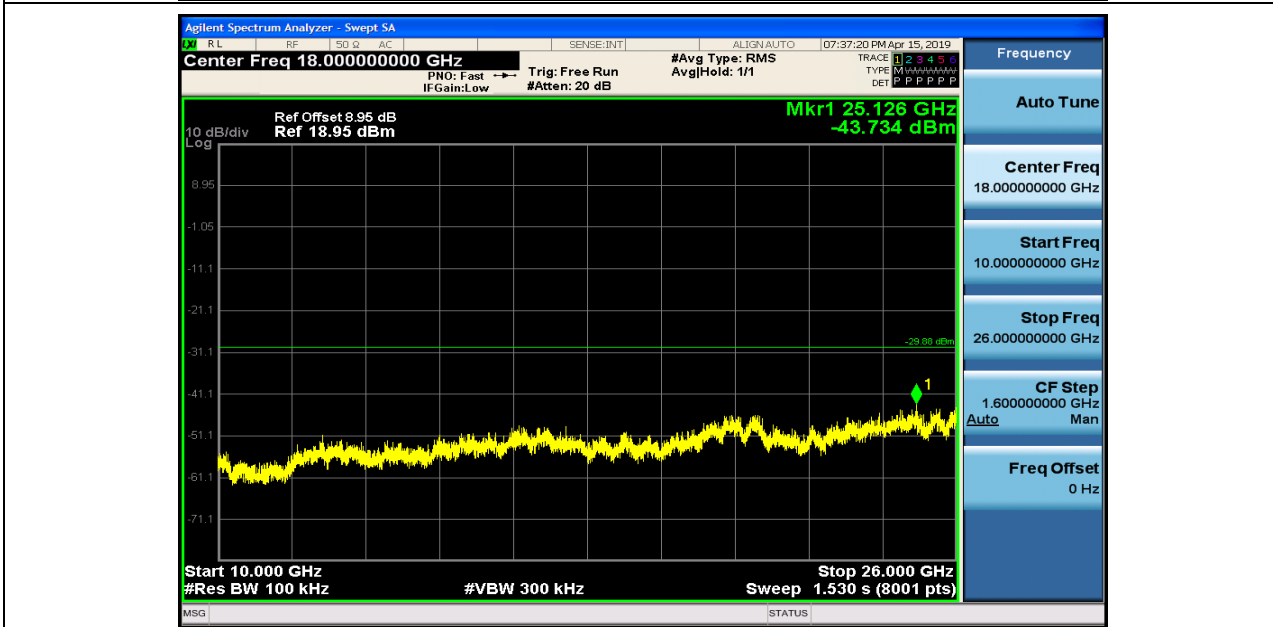
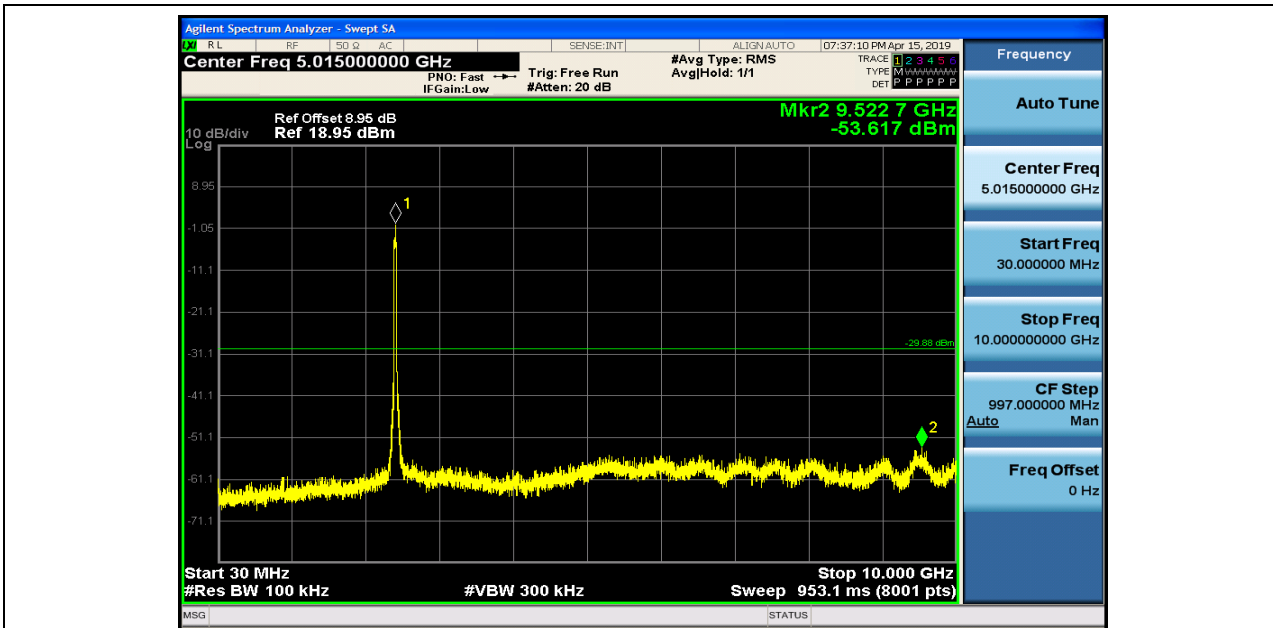




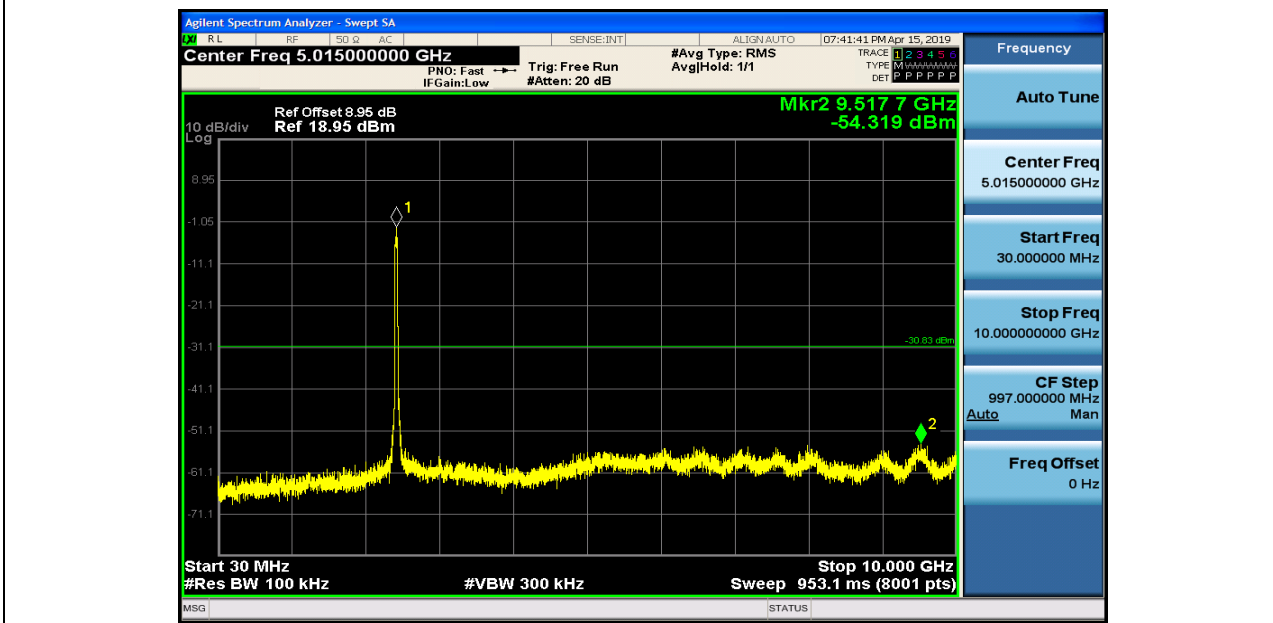
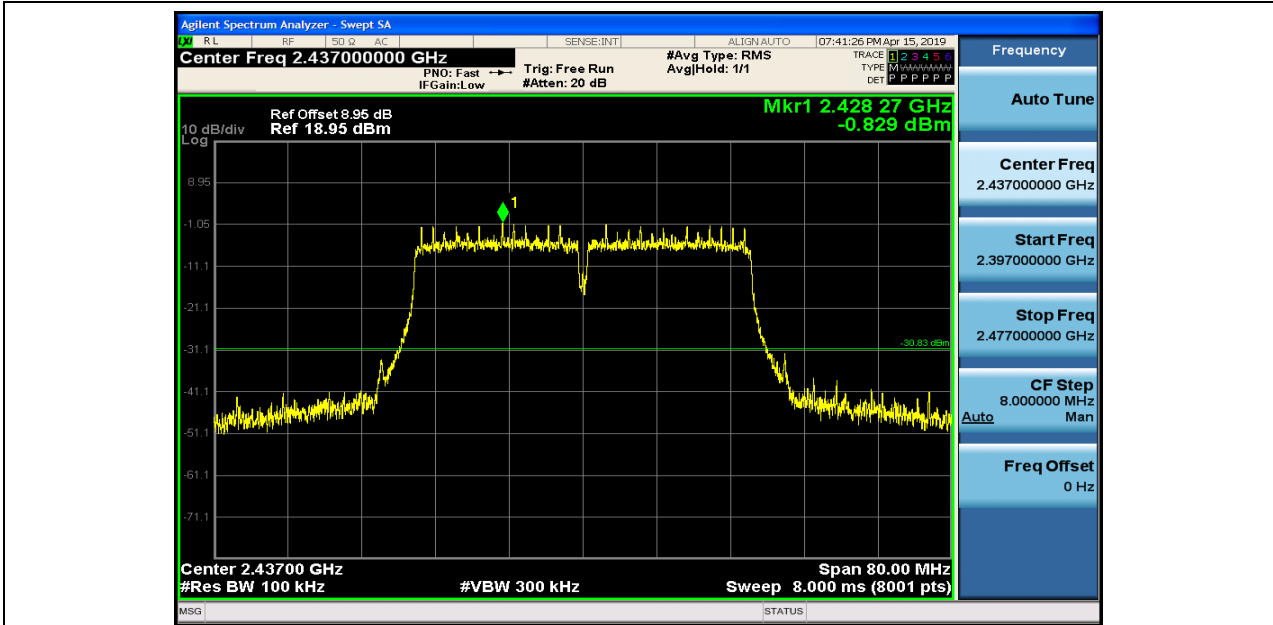


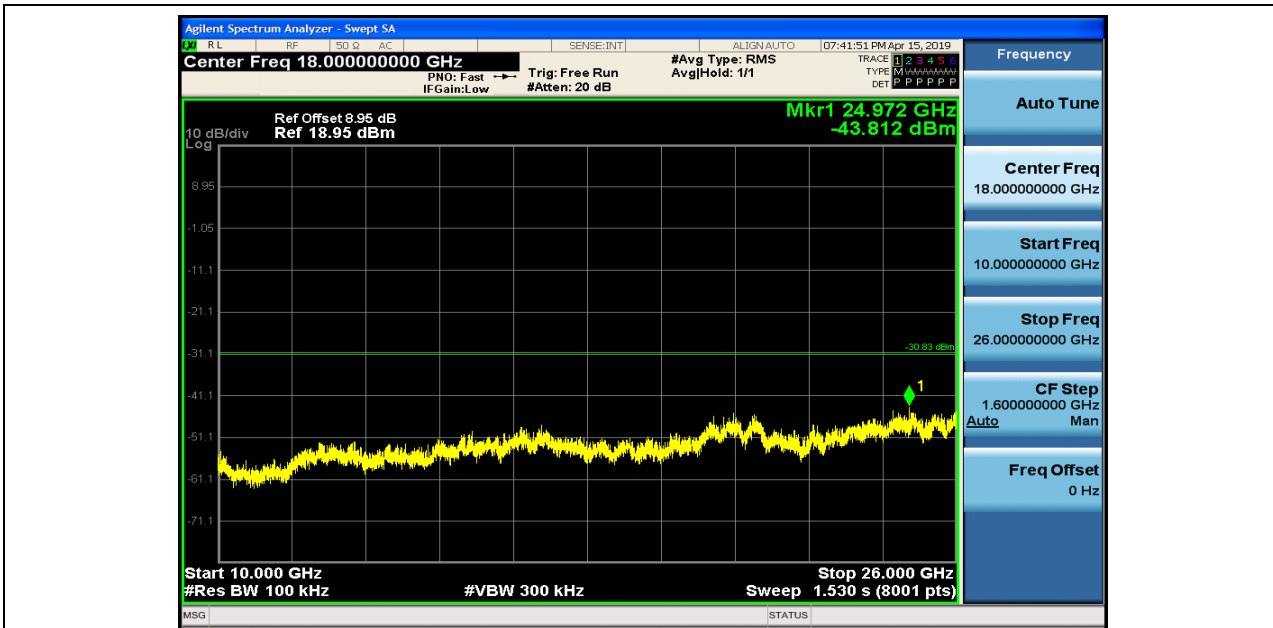
RF Conducted Spurious Emissions\_11N40SISO\_2422



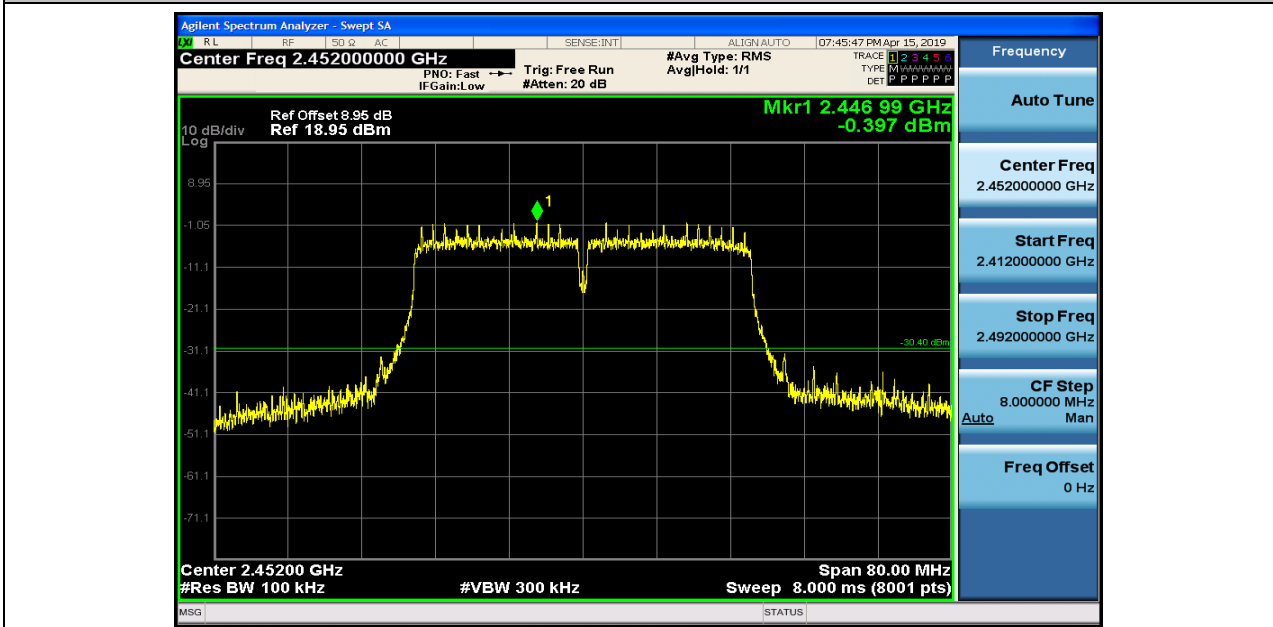


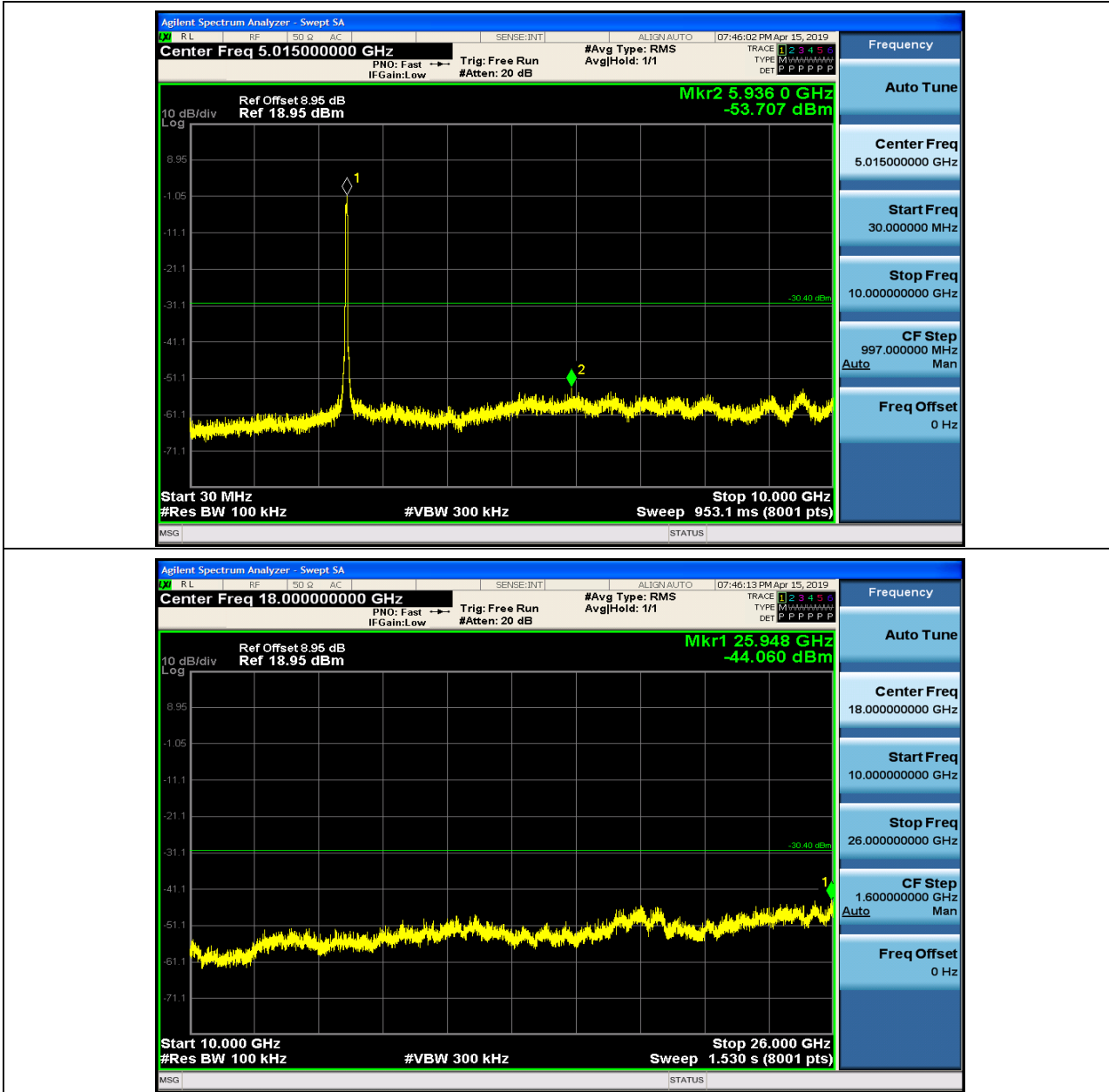
RF Conducted Spurious Emissions\_11N40SISO\_2437





RF Conducted Spurious Emissions\_11N40SISO\_2452





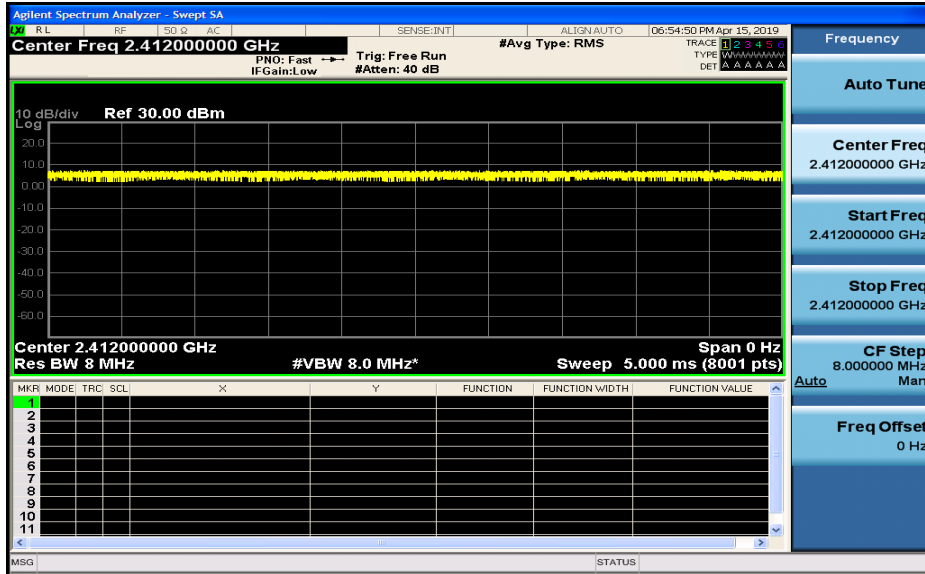


### 7.Duty Cycle

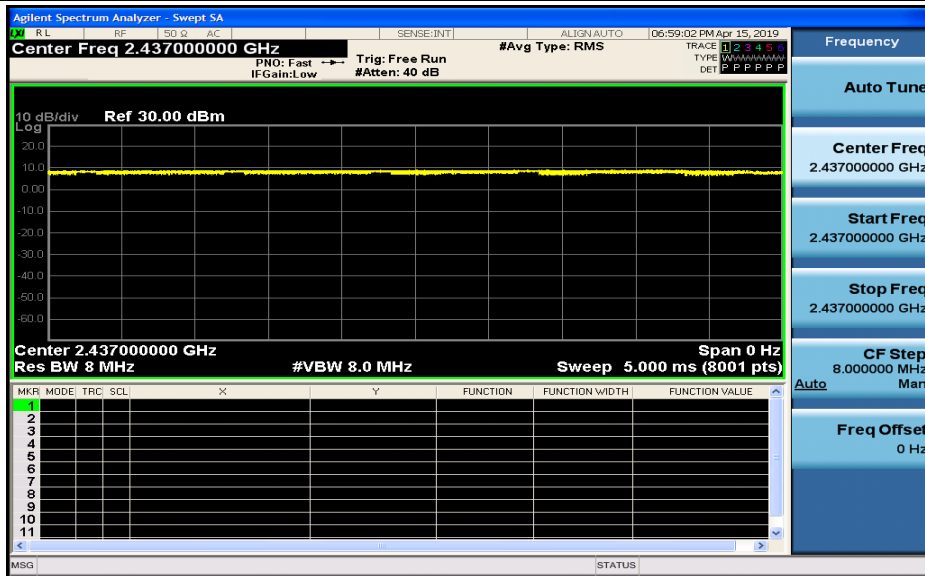
Test Mode	Test Channel	Ant	Duty Cycle[%]	10log(1/x) Factor[dB]
11B	2412	Ant1	100.00	0.00
11B	2437	Ant1	100.00	0.00
11B	2462	Ant1	100.00	0.00
11G	2412	Ant1	92.67	0.33
11G	2437	Ant1	96.15	0.17
11G	2462	Ant1	95.76	0.19
11N20SISO	2412	Ant1	94.61	0.24
11N20SISO	2437	Ant1	95.46	0.20
11N20SISO	2462	Ant1	94.20	0.26
11N40SISO	2422	Ant1	88.14	0.55
11N40SISO	2437	Ant1	91.18	0.40
11N40SISO	2452	Ant1	84.59	0.73



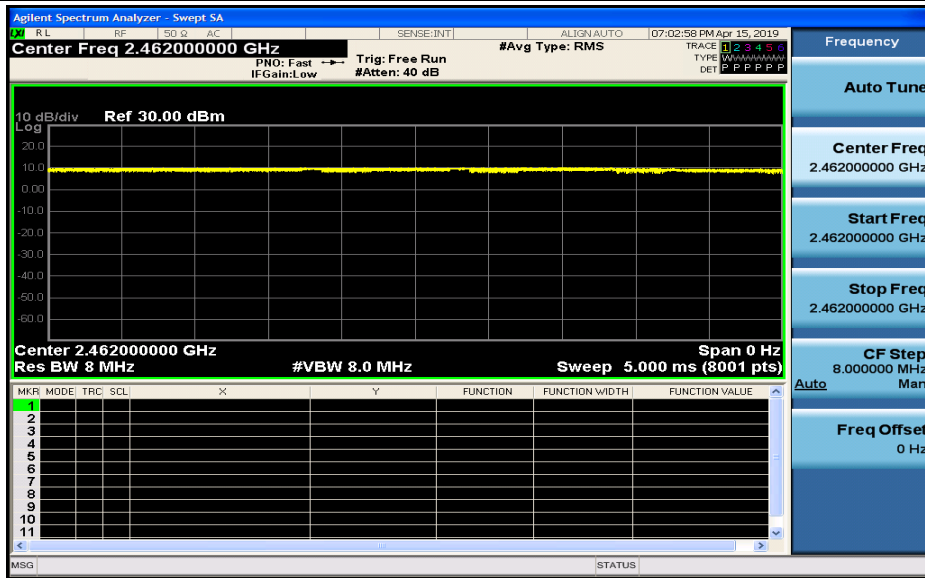
Duty Cycle\_11B\_2412\_Ant1



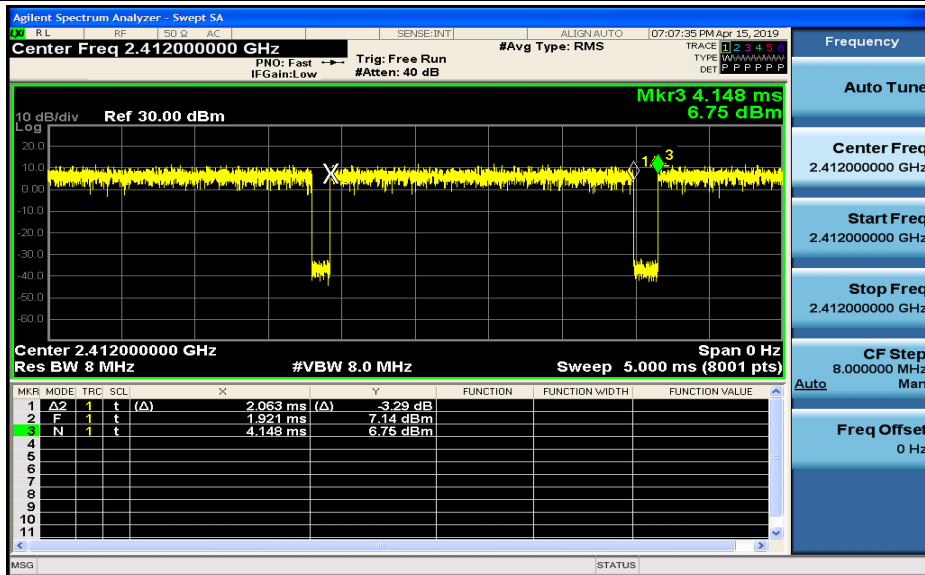
Duty Cycle\_11B\_2437\_Ant1



Duty Cycle\_11B\_2462\_Ant1

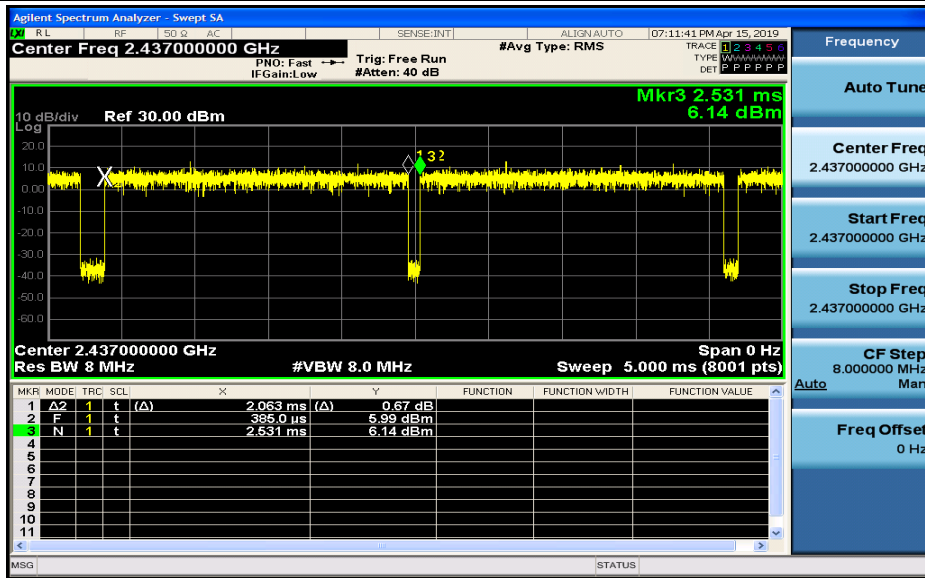


Duty Cycle\_11G\_2412\_Ant1

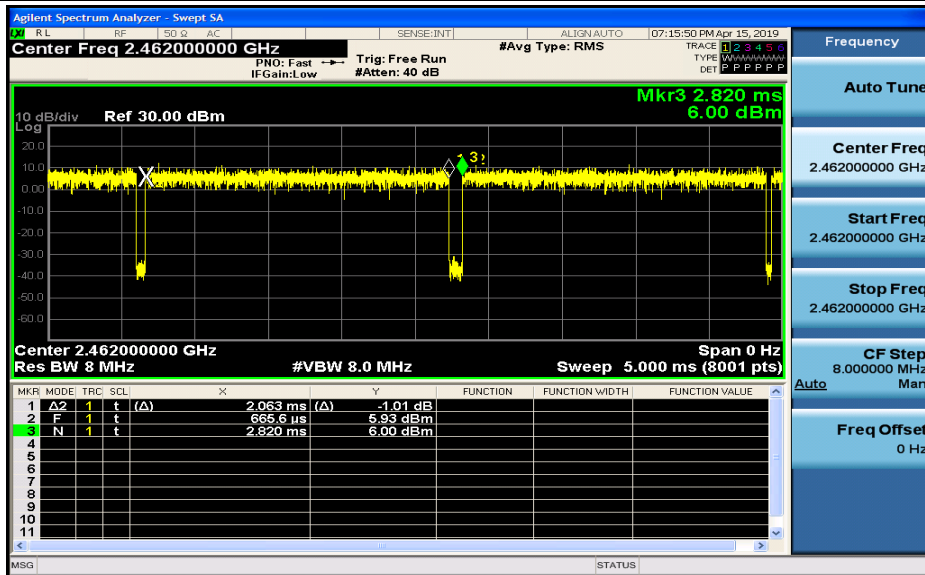


Duty Cycle\_11G\_2437\_Ant1

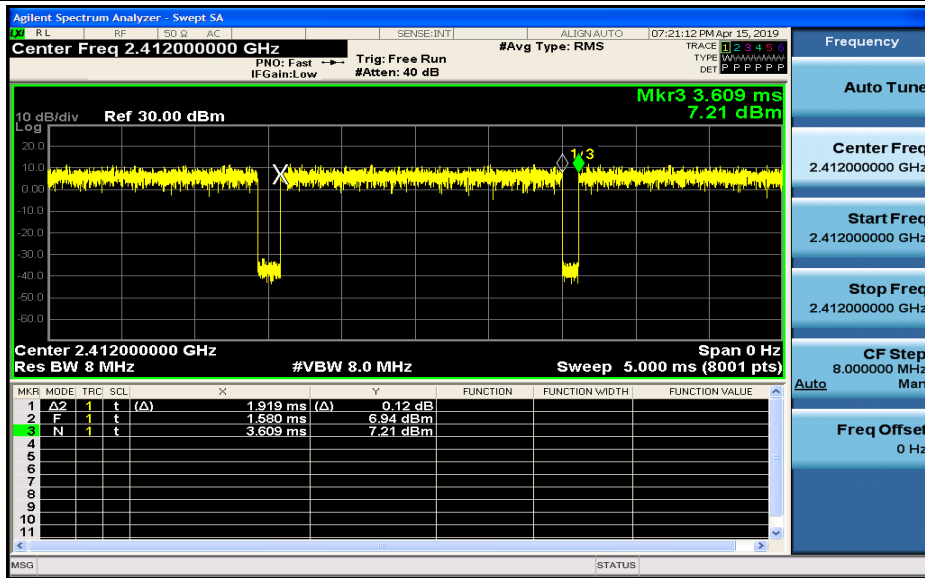




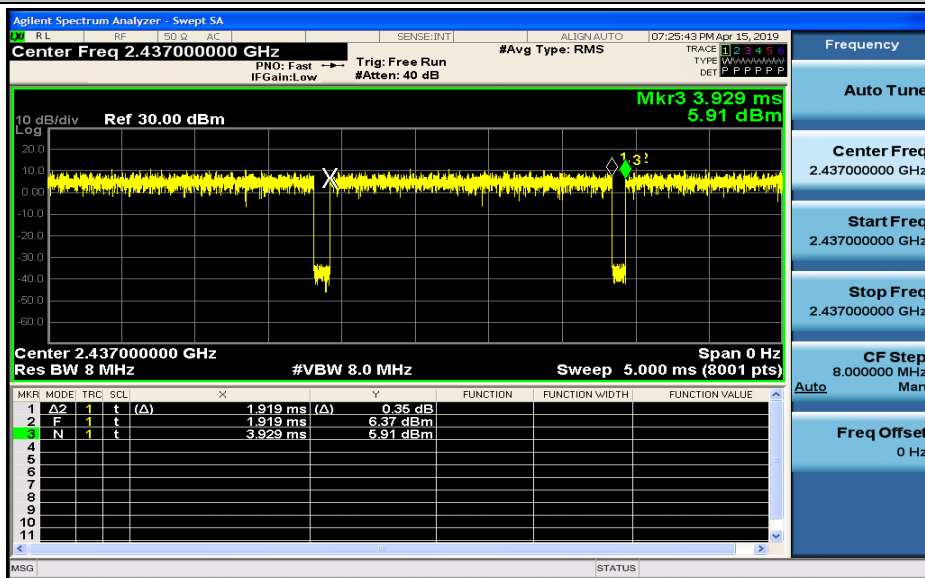
Duty Cycle\_11G\_2462\_Ant1



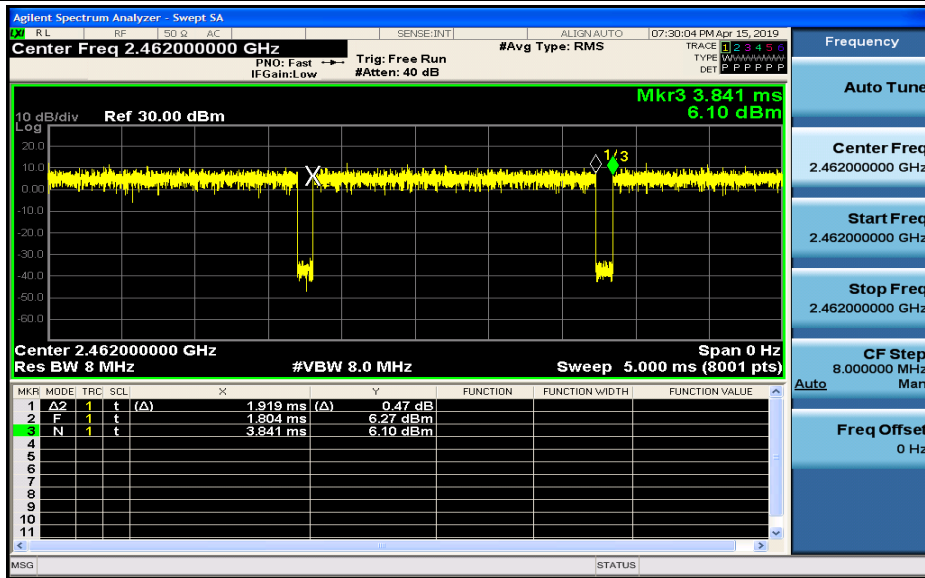
Duty Cycle\_11N20SISO\_2412\_Ant1



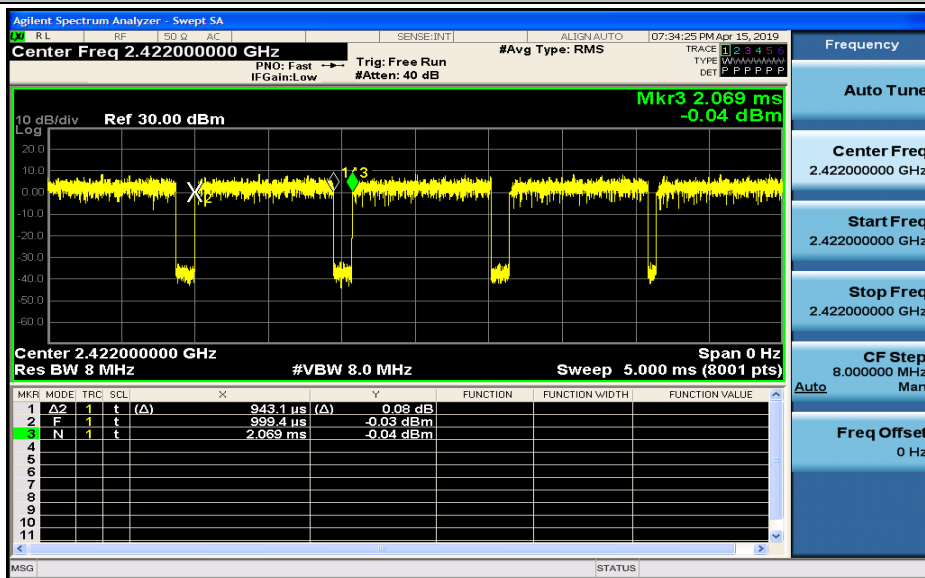
Duty Cycle\_11N20SISO\_2437\_Ant1



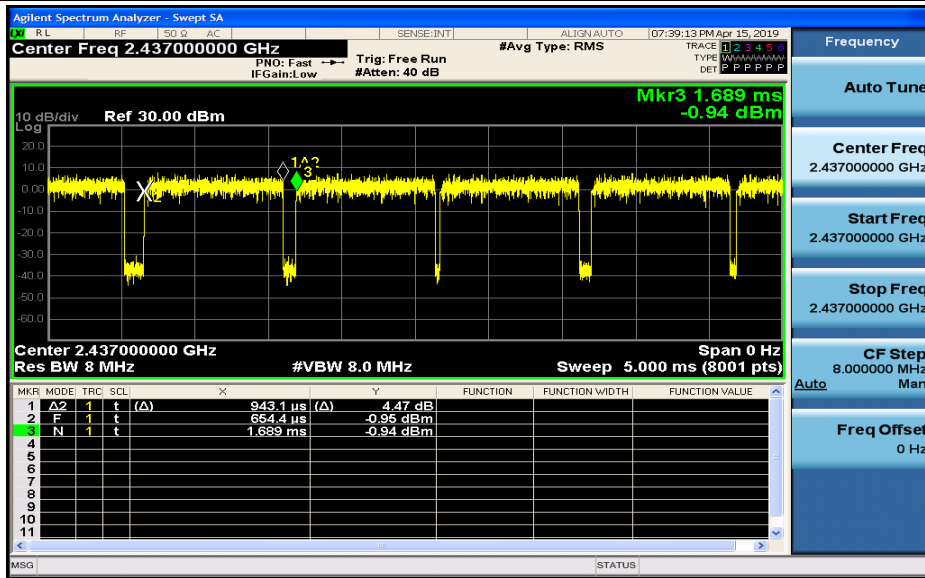
Duty Cycle\_11N20SISO\_2462\_Ant1



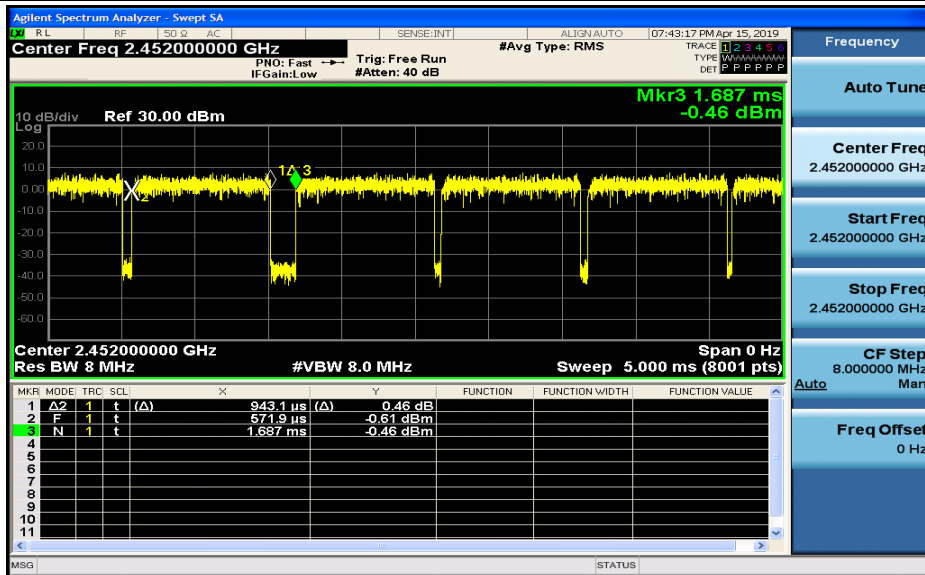
Duty Cycle\_11N40SISO\_2422\_Ant1



Duty Cycle\_11N40SISO\_2437\_Ant1



Duty Cycle\_11N40SISO\_2452\_Ant1



- End of the Report -