



**Appendix C for SHEM190901704003**

**1.6dB Bandwidth**

Test Mode	Test Channel	Ant	EBW[MHz]	Limit	Verdict
11B	2412	Ant1	9.58	0.5	PASS
11B	2437	Ant1	10.06	0.5	PASS
11B	2462	Ant1	10.06	0.5	PASS
11G	2412	Ant1	16.35	0.5	PASS
11G	2437	Ant1	16.39	0.5	PASS
11G	2462	Ant1	16.36	0.5	PASS
11N20SISO	2412	Ant1	17.57	0.5	PASS
11N20SISO	2437	Ant1	17.56	0.5	PASS
11N20SISO	2462	Ant1	17.60	0.5	PASS
11N40SISO	2422	Ant1	35.45	0.5	PASS
11N40SISO	2437	Ant1	35.31	0.5	PASS
11N40SISO	2452	Ant1	35.64	0.5	PASS

## 6dB Bandwidth\_11B\_2412\_Ant1



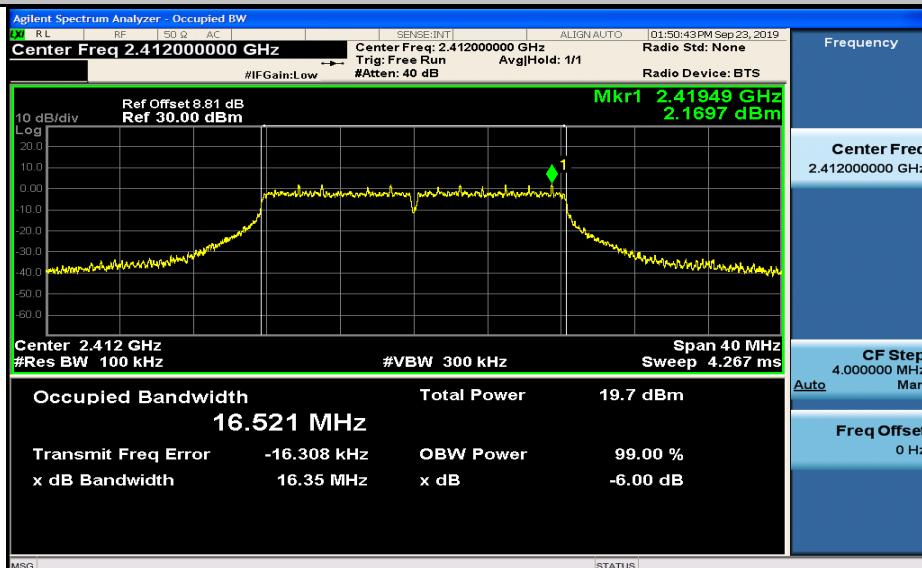
## 6dB Bandwidth\_11B\_2437\_Ant1



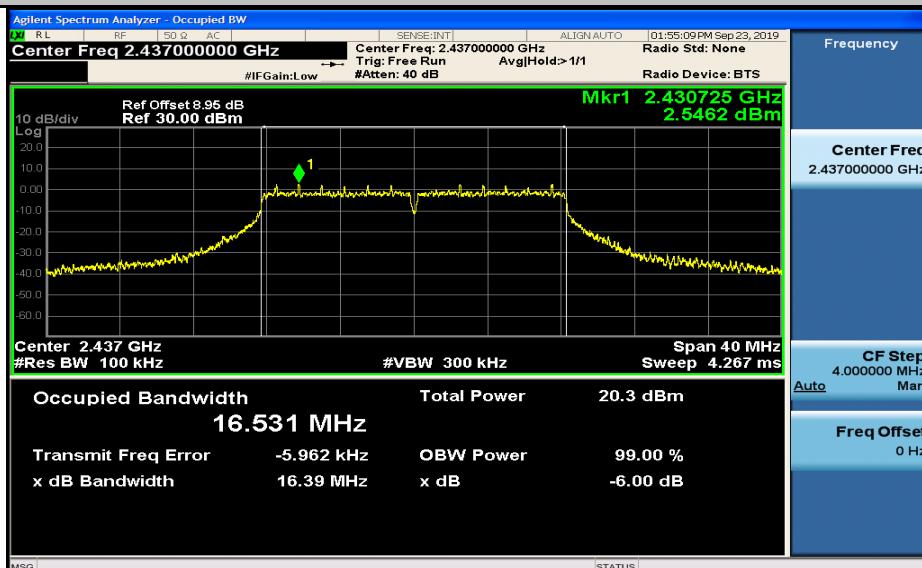
## 6dB Bandwidth\_11B\_2462\_Ant1



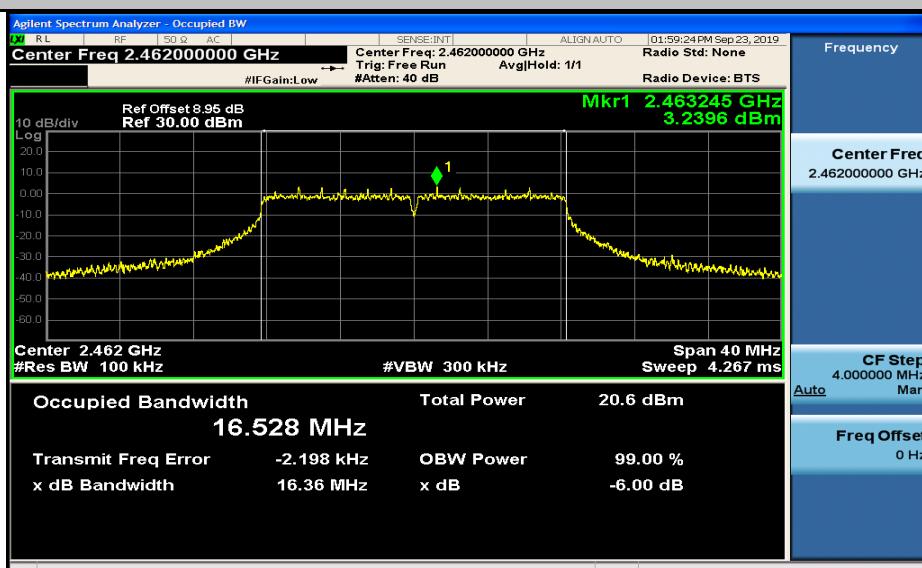
## 6dB Bandwidth\_11G\_2412\_Ant1



## 6dB Bandwidth\_11G\_2437\_Ant1



## 6dB Bandwidth\_11G\_2462\_Ant1

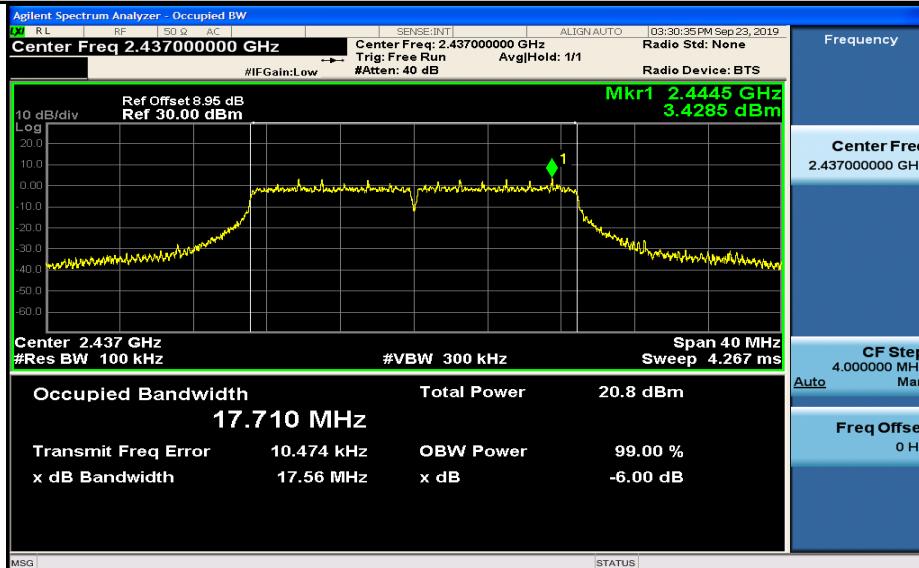


## 6dB Bandwidth\_11N20SISO\_2412\_Ant1



Frequency  
Center Freq 2.412000000 GHz  
CF Step 4.000000 MHz Man  
Freq Offset 0 Hz

## 6dB Bandwidth\_11N20SISO\_2437\_Ant1



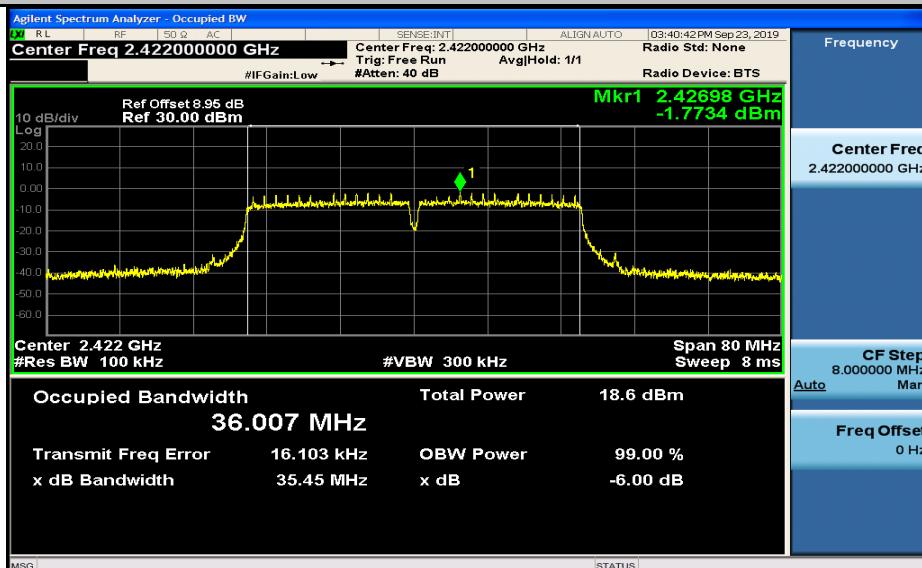
Frequency  
Center Freq 2.437000000 GHz  
CF Step 4.000000 MHz Man  
Freq Offset 0 Hz

## 6dB Bandwidth\_11N20SISO\_2462\_Ant1

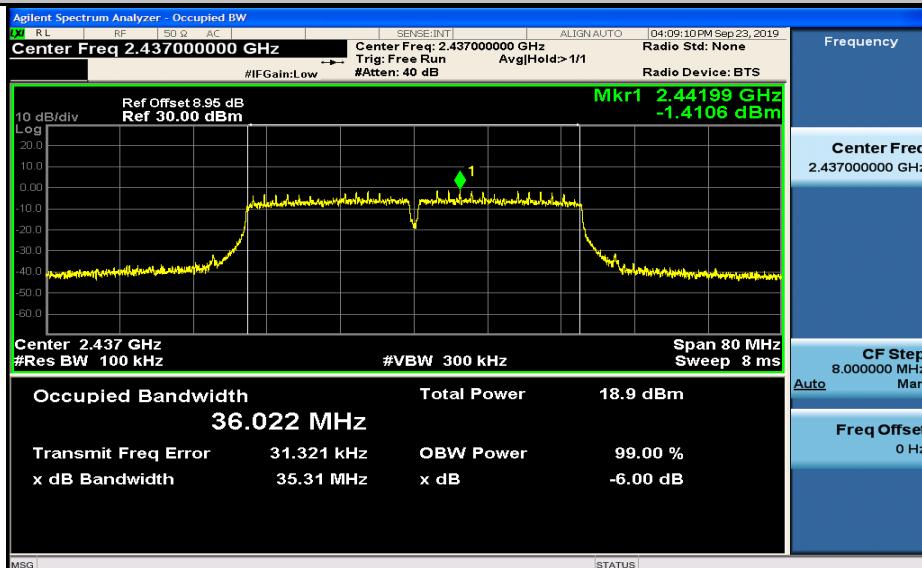


Frequency  
Center Freq 2.462000000 GHz  
CF Step 4.000000 MHz Man  
Freq Offset 0 Hz

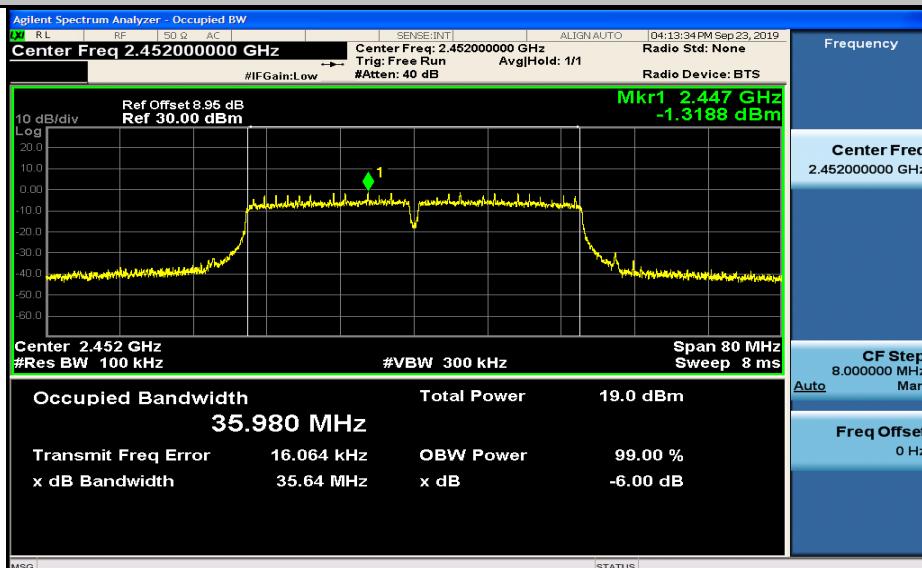
## 6dB Bandwidth\_11N40SISO\_2422\_Ant1



## 6dB Bandwidth\_11N40SISO\_2437\_Ant1



## 6dB Bandwidth\_11N40SISO\_2452\_Ant1

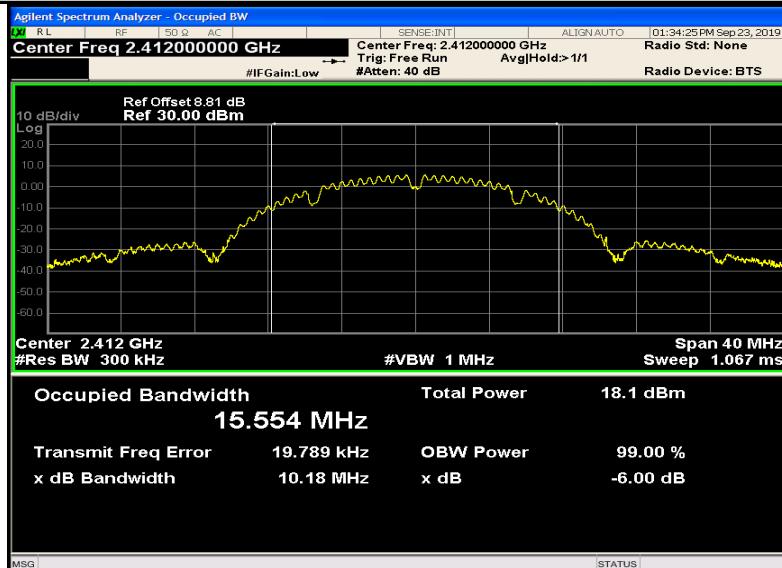




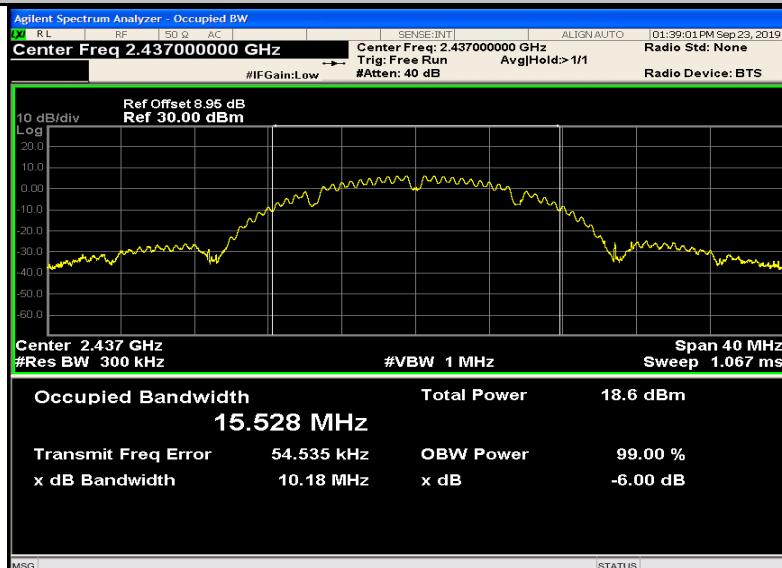
## 2.Occupied Bandwidth

Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict
11B	2412	Ant1	15.55	---	PASS
11B	2437	Ant1	15.53	---	PASS
11B	2462	Ant1	15.51	---	PASS
11G	2412	Ant1	16.96	---	PASS
11G	2437	Ant1	17.13	---	PASS
11G	2462	Ant1	16.99	---	PASS
11N20SISO	2412	Ant1	18.01	---	PASS
11N20SISO	2437	Ant1	18.12	---	PASS
11N20SISO	2462	Ant1	18.10	---	PASS
11N40SISO	2422	Ant1	36.57	---	PASS
11N40SISO	2437	Ant1	36.48	---	PASS
11N40SISO	2452	Ant1	36.46	---	PASS

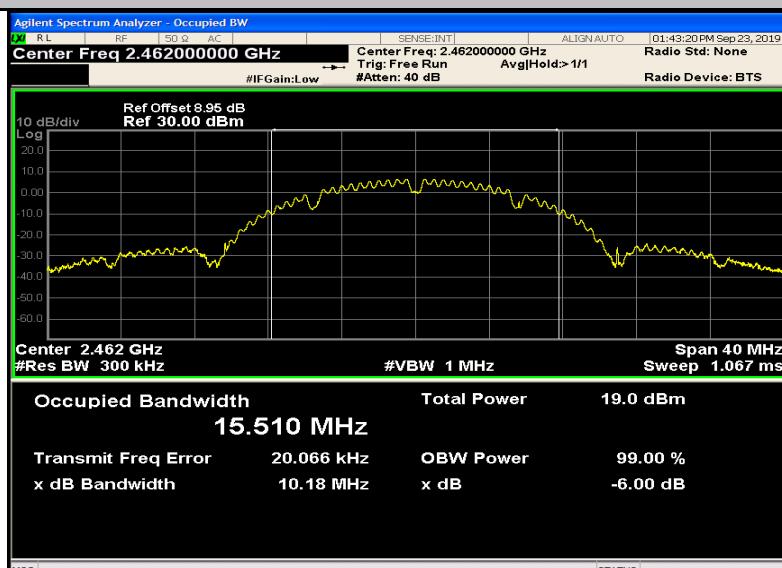
## Occupied Bandwidth\_11B\_2412



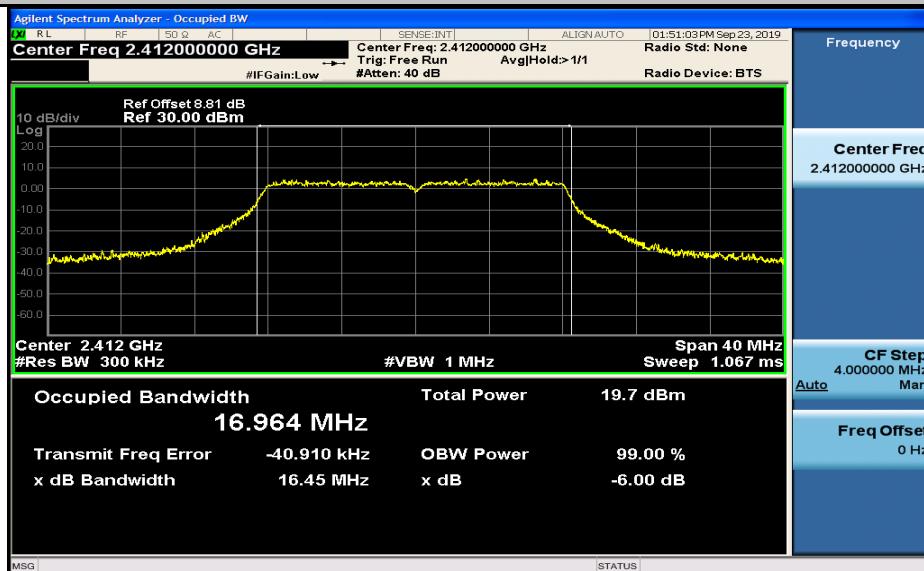
## Occupied Bandwidth\_11B\_2437



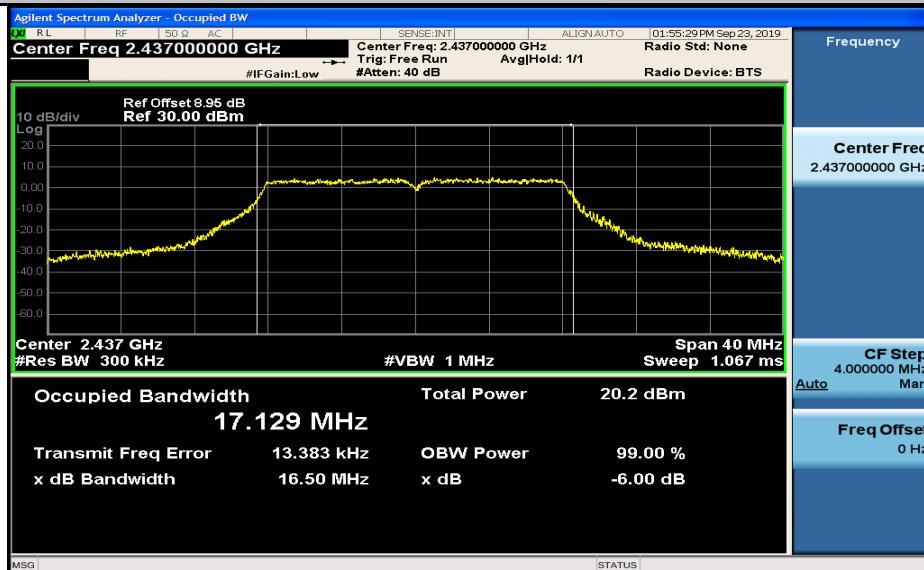
## Occupied Bandwidth\_11B\_2462



## Occupied Bandwidth\_11G\_2412



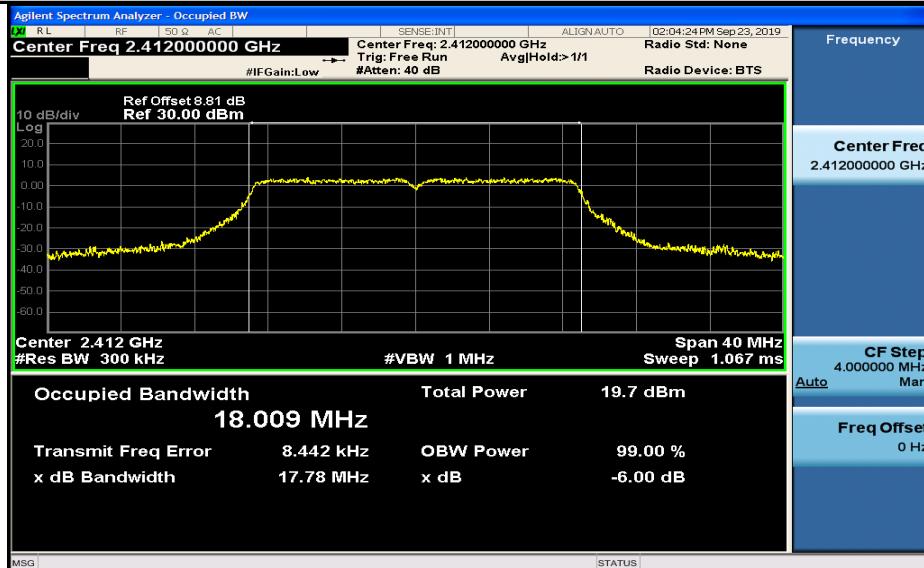
## Occupied Bandwidth\_11G\_2437



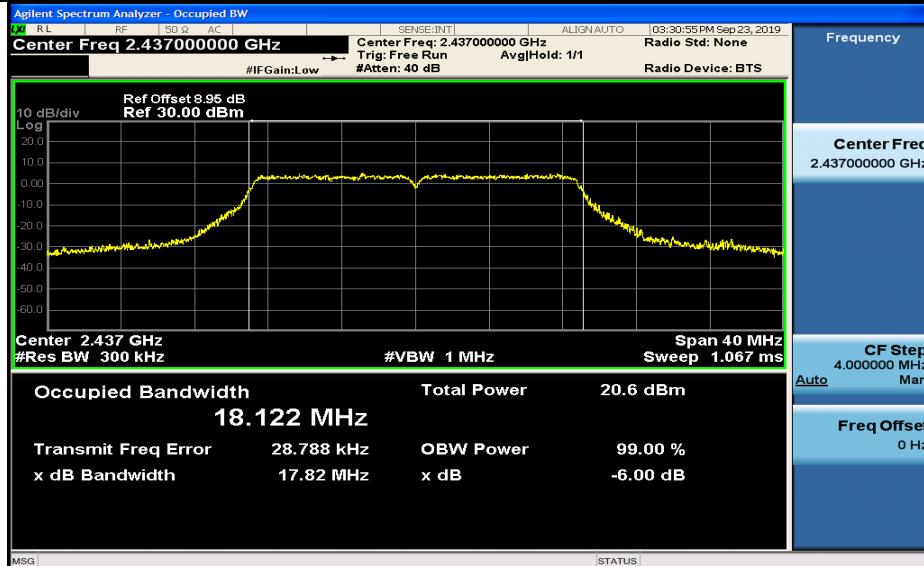
## Occupied Bandwidth\_11G\_2462



## Occupied Bandwidth\_11N20SISO\_2412

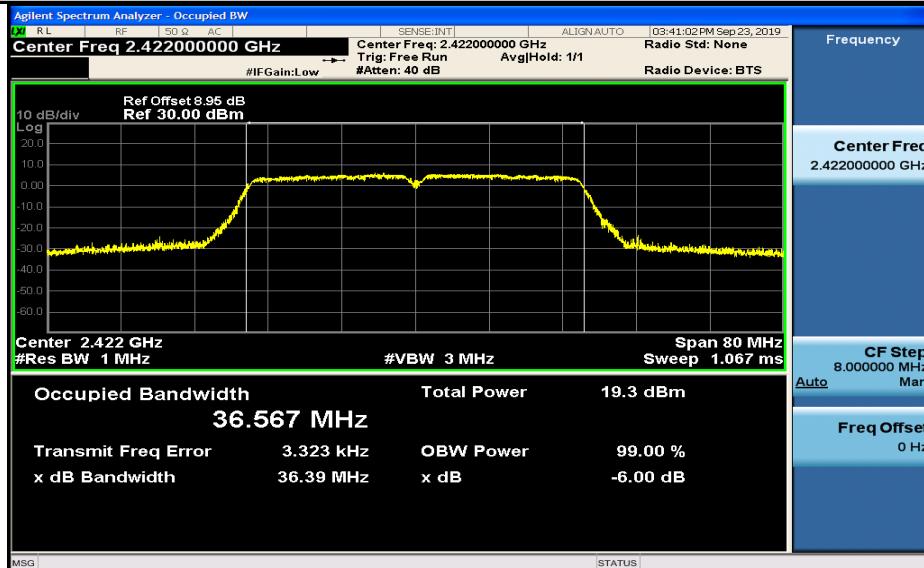
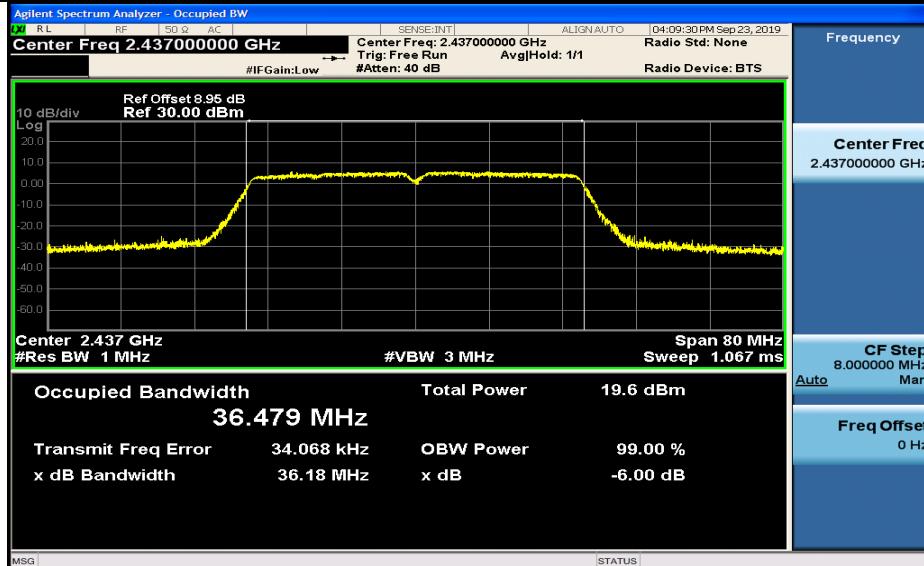


## Occupied Bandwidth\_11N20SISO\_2437



## Occupied Bandwidth\_11N20SISO\_2462



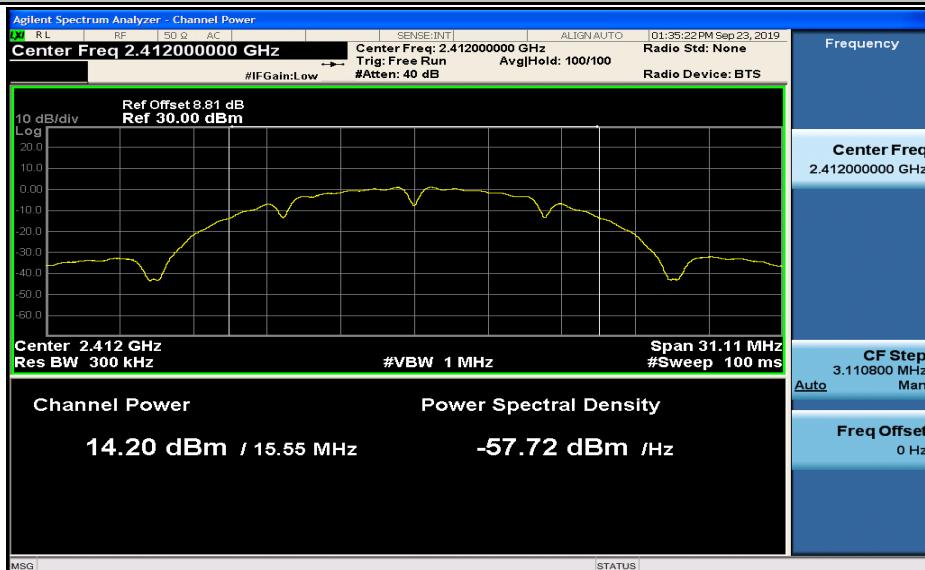
**Occupied Bandwidth\_11N40SISO\_2422****Occupied Bandwidth\_11N40SISO\_2437****Occupied Bandwidth\_11N40SISO\_2452**



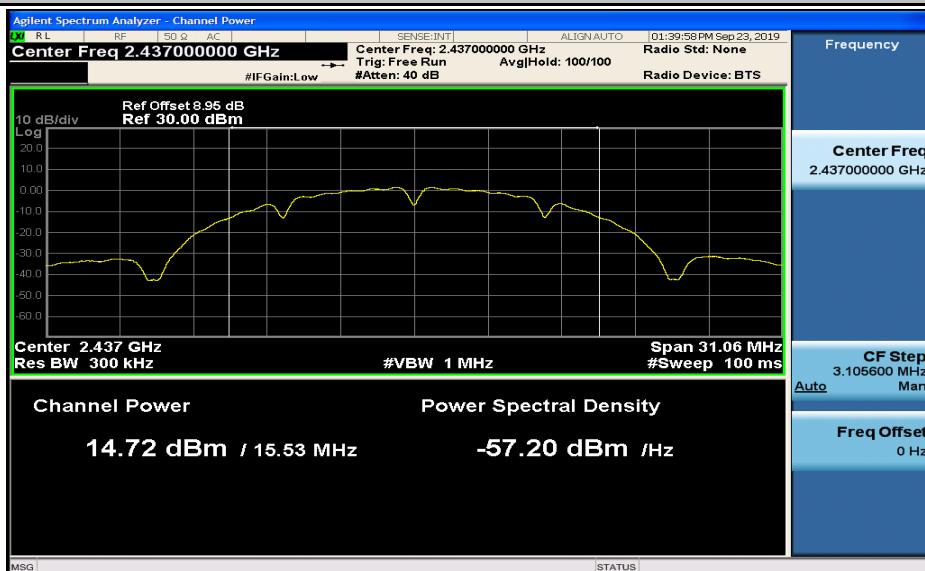
**3. Maximum conducted (average) output power**

Test Mode	Test Channel	Ant	Level [dBm]	10log(1/x) Factor[dB]	Power [dBm]	Limit [dBm]	Verdict
11B	2412	Ant1	14.2	0.04	14.23	30	PASS
11B	2437	Ant1	14.72	0.04	14.76	30	PASS
11B	2462	Ant1	15.09	0.06	15.15	30	PASS
11G	2412	Ant1	13.02	0.19	13.21	30	PASS
11G	2437	Ant1	13.54	0.13	13.67	30	PASS
11G	2462	Ant1	13.88	0.12	14.00	30	PASS
11N20SISO	2412	Ant1	13.03	0.30	13.33	30	PASS
11N20SISO	2437	Ant1	13.74	0.31	14.05	30	PASS
11N20SISO	2462	Ant1	13.89	0.38	14.27	30	PASS
11N40SISO	2422	Ant1	11.58	0.34	11.92	30	PASS
11N40SISO	2437	Ant1	11.77	0.22	11.99	30	PASS
11N40SISO	2452	Ant1	11.98	0.46	12.44	30	PASS

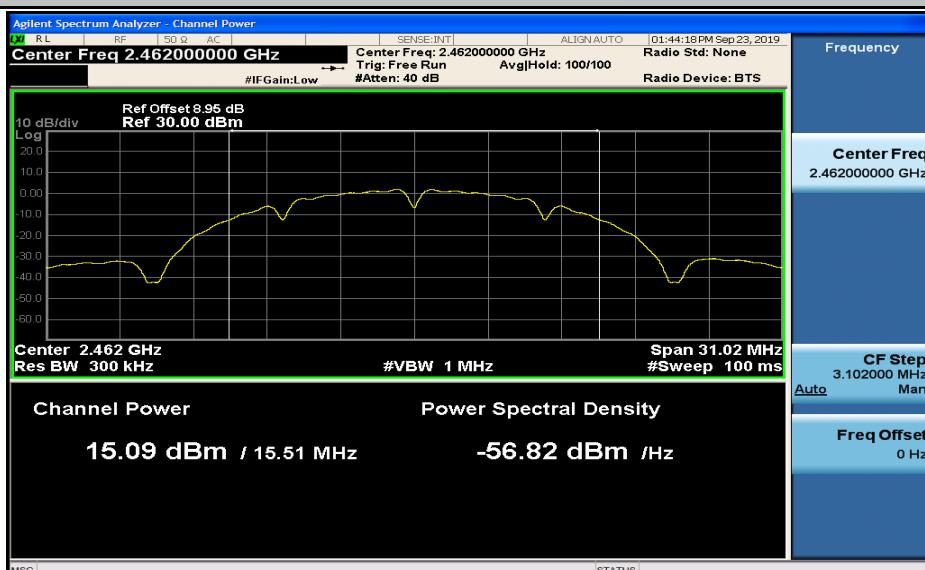
## Maximum conducted (average) output power\_11B\_2412\_Ant1



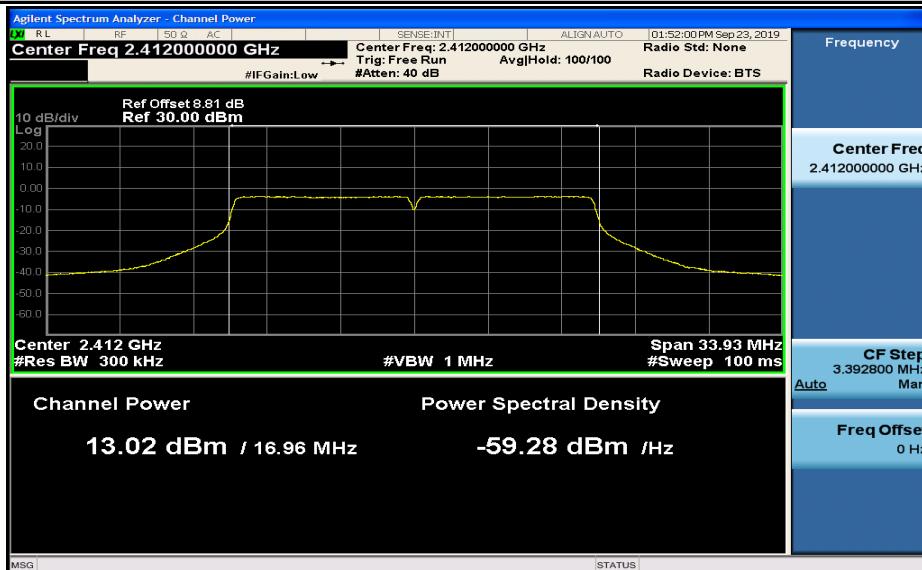
## Maximum conducted (average) output power\_11B\_2437\_Ant1



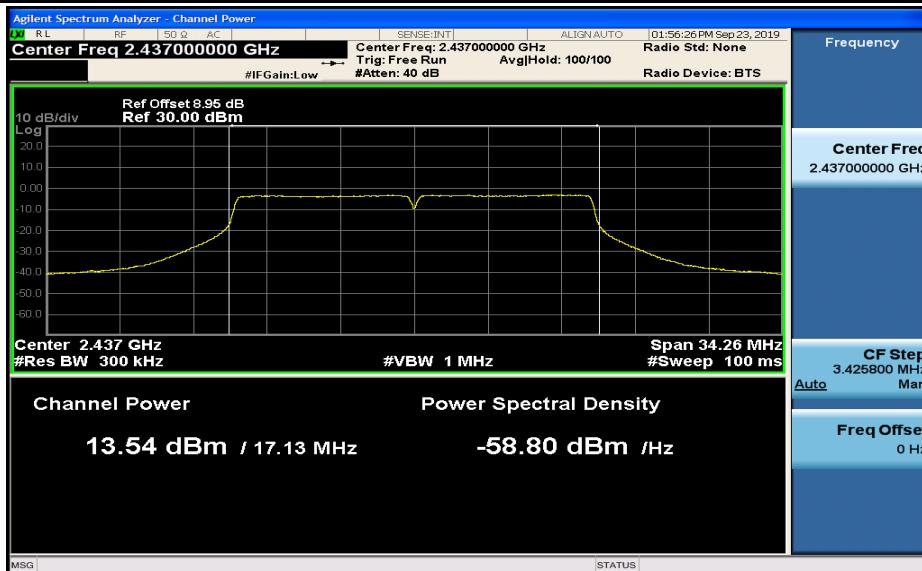
## Maximum conducted (average) output power\_11B\_2462\_Ant1



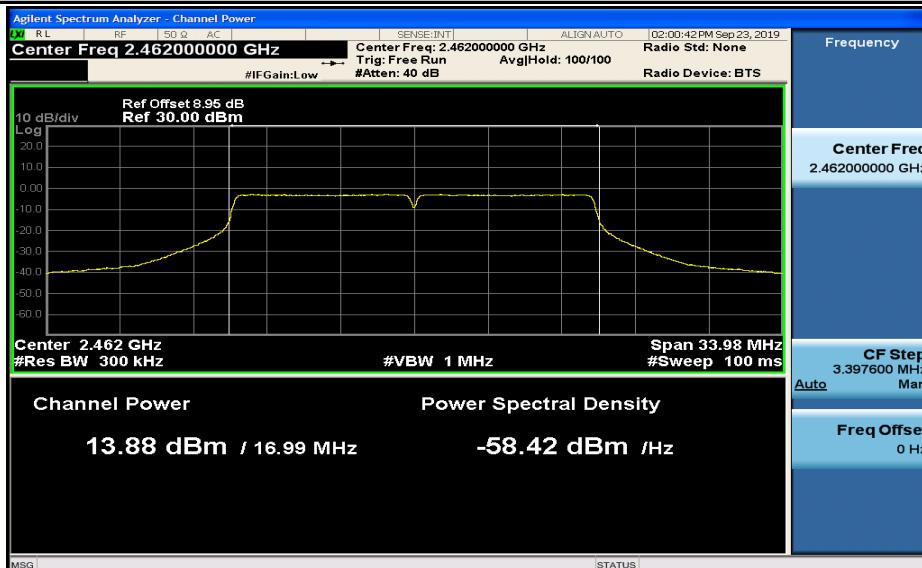
## Maximum conducted (average) output power\_11G\_2412\_Ant1



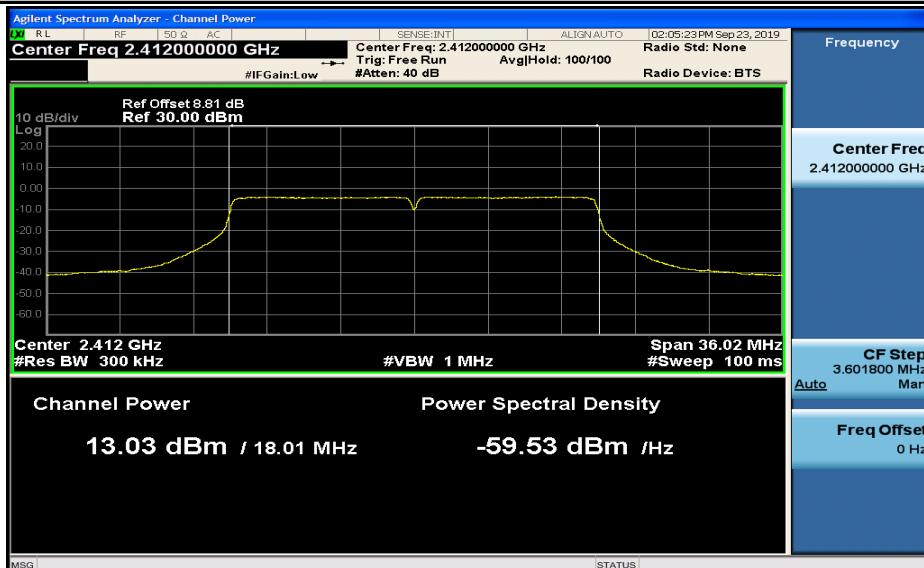
## Maximum conducted (average) output power\_11G\_2437\_Ant1



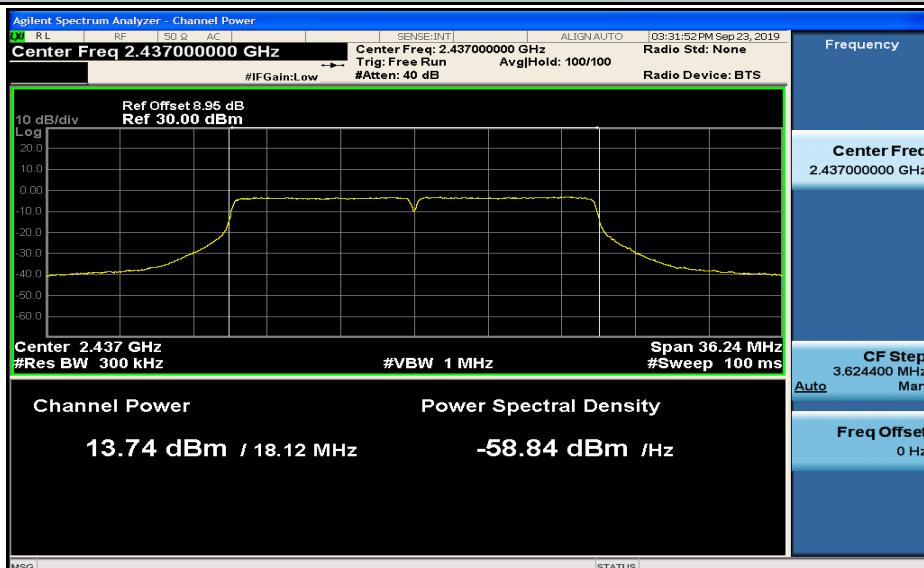
## Maximum conducted (average) output power\_11G\_2462\_Ant1



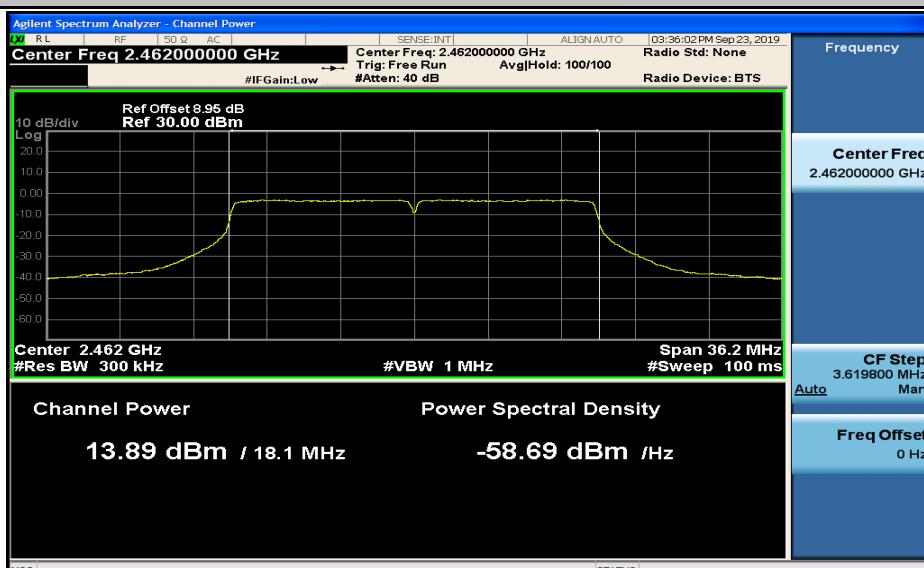
## Maximum conducted (average) output power\_11N20SISO\_2412\_Ant1



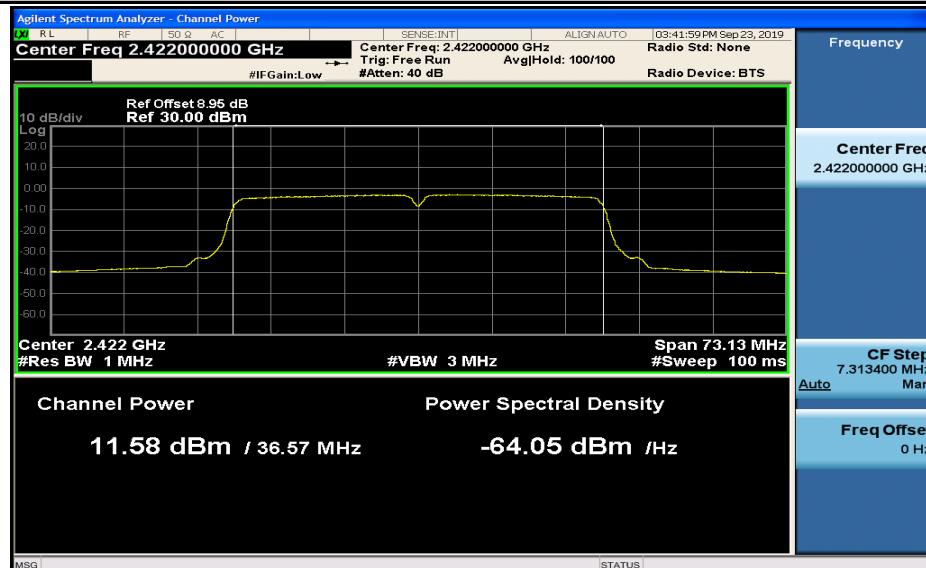
## Maximum conducted (average) output power\_11N20SISO\_2437\_Ant1



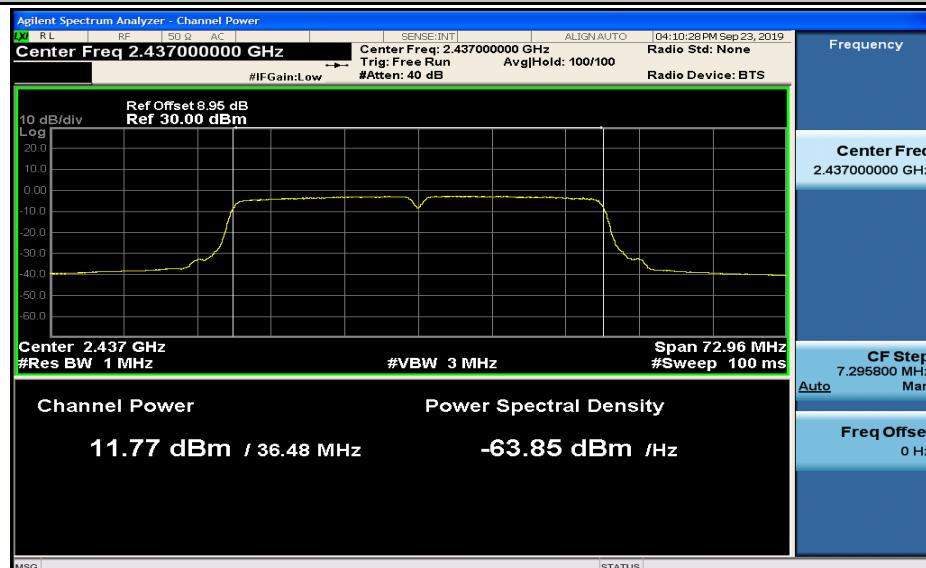
## Maximum conducted (average) output power\_11N20SISO\_2462\_Ant1



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



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



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

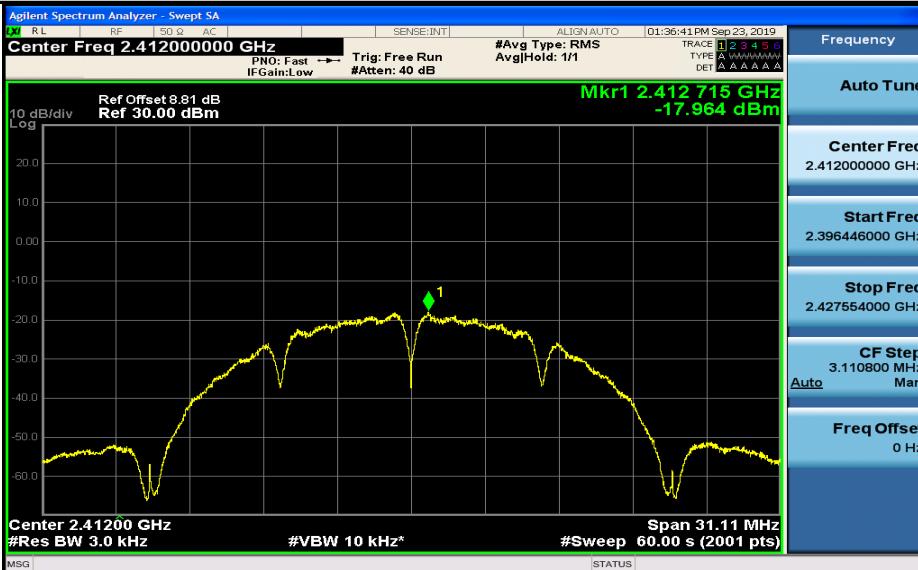




**4. Maximum(average) power spectral density**

Test Mode	Test Channel	Ant	Level [dBm/3kHz]	10log(1/x) Factor[dB]	PSD[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	Ant1	-17.96	0.04	-17.92	8.00	PASS
11B	2437	Ant1	-17.64	0.04	-17.60	8.00	PASS
11B	2462	Ant1	-17.25	0.06	-17.19	8.00	PASS
11G	2412	Ant1	-20.43	0.19	-20.24	8.00	PASS
11G	2437	Ant1	-20.03	0.13	-19.90	8.00	PASS
11G	2462	Ant1	-19.77	0.12	-19.65	8.00	PASS
11N20SISO	2412	Ant1	-20.93	0.30	-20.63	8.00	PASS
11N20SISO	2437	Ant1	-20.64	0.31	-20.33	8.00	PASS
11N20SISO	2462	Ant1	-20.69	0.38	-20.31	8.00	PASS
11N40SISO	2422	Ant1	-25.59	0.34	-25.25	8.00	PASS
11N40SISO	2437	Ant1	-24.78	0.22	-24.56	8.00	PASS
11N40SISO	2452	Ant1	-24.85	0.46	-24.39	8.00	PASS

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



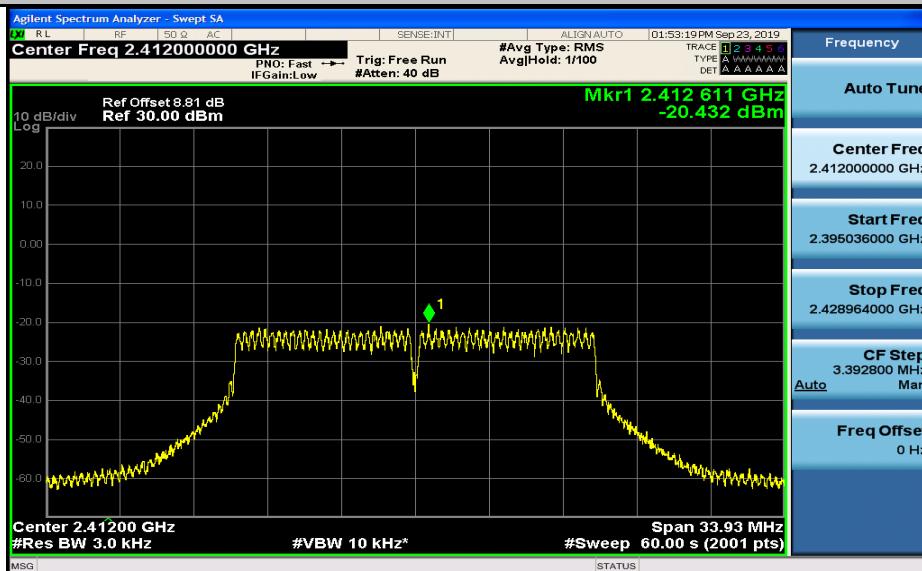
## Maximum(average) power spectral density\_11B\_2437\_Ant1



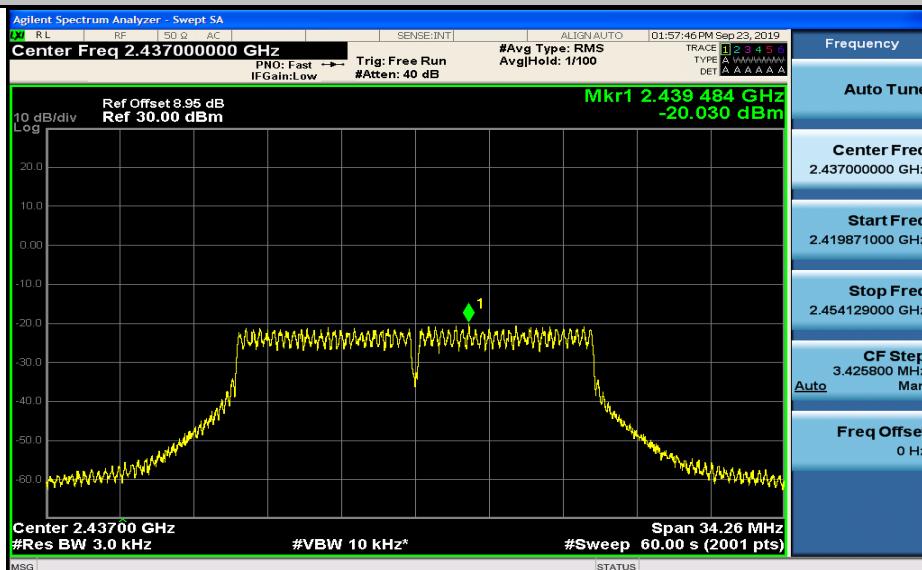
## Maximum(average) power spectral density\_11B\_2462\_Ant1



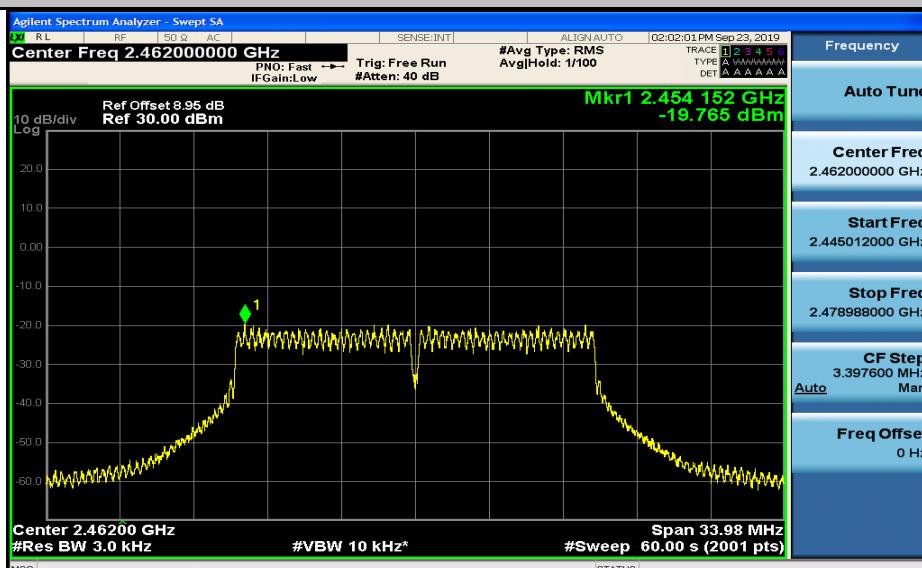
## Maximum(average) power spectral density\_11G\_2412\_Ant1



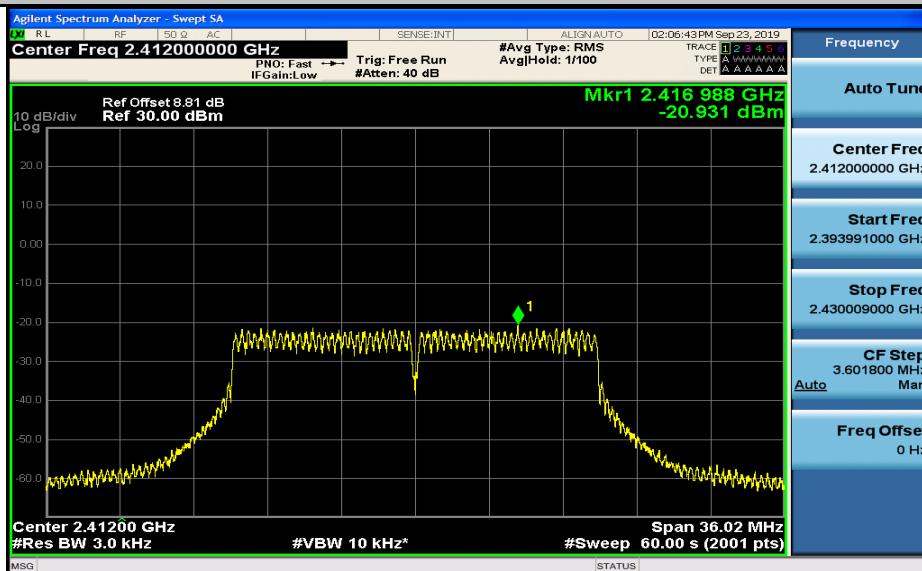
## Maximum(average) power spectral density\_11G\_2437\_Ant1



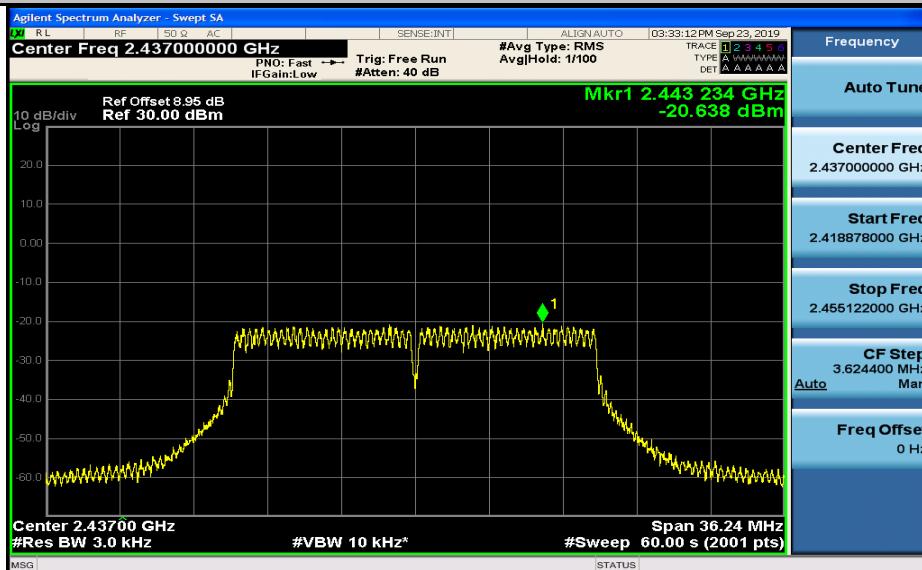
## Maximum(average) power spectral density\_11G\_2462\_Ant1



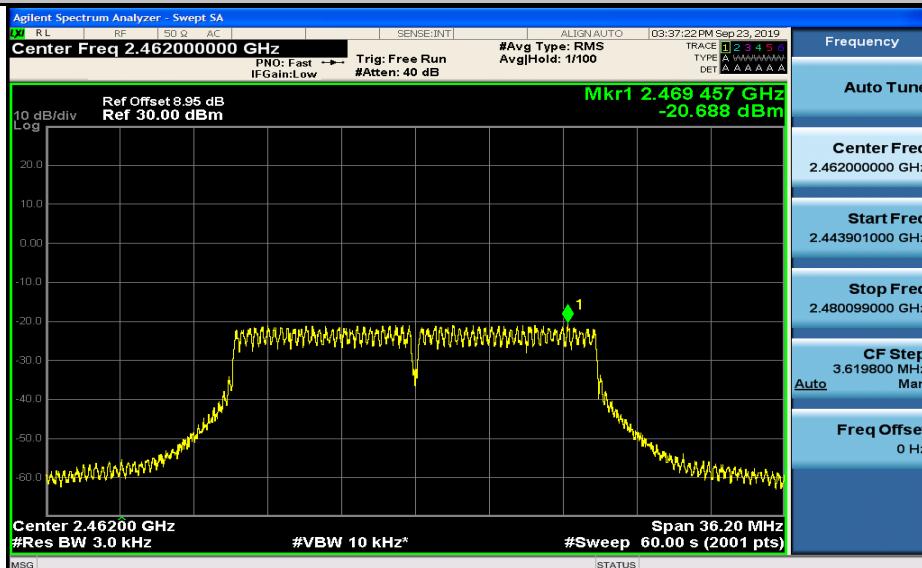
## Maximum(average) power spectral density\_11N20SISO\_2412\_Ant1



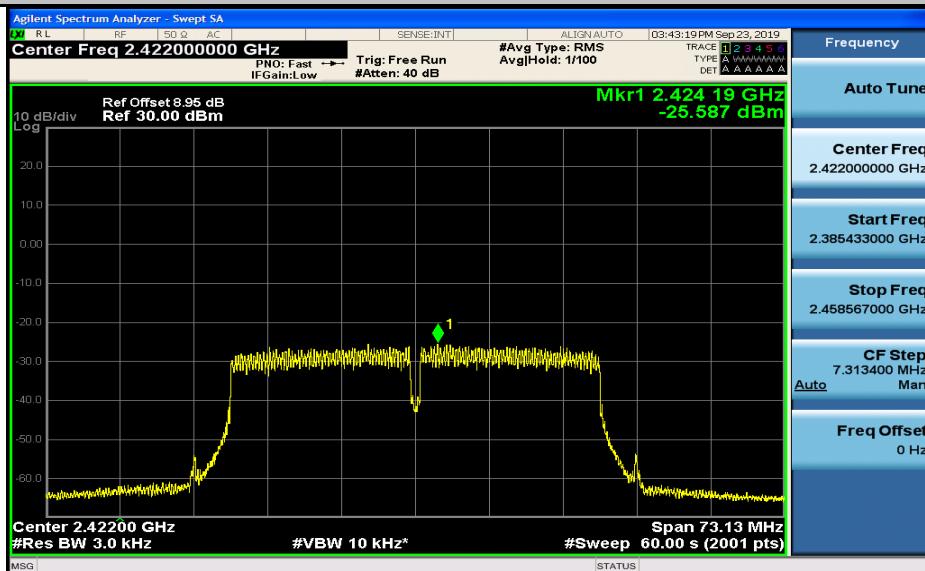
## Maximum(average) power spectral density\_11N20SISO\_2437\_Ant1



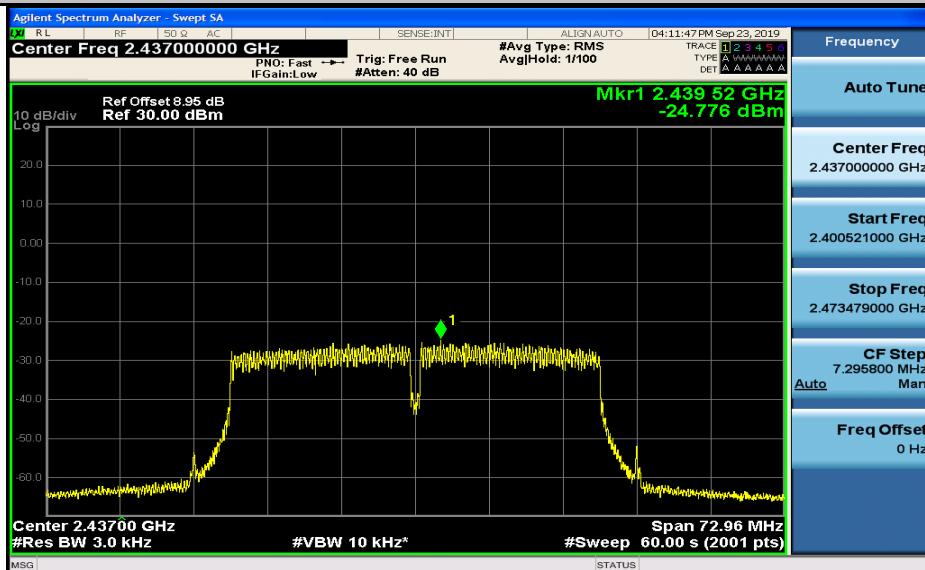
## Maximum(average) power spectral density\_11N20SISO\_2462\_Ant1



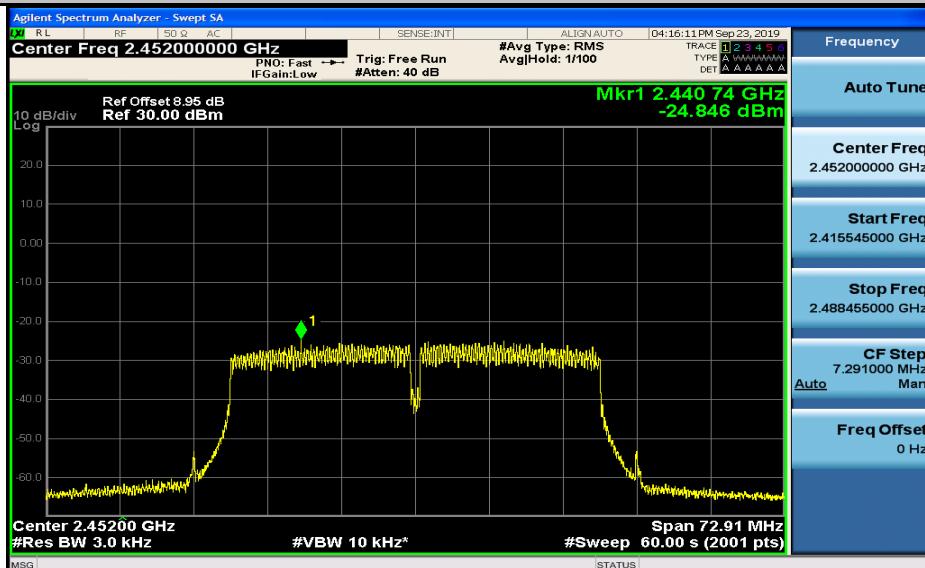
## Maximum(average) power spectral density\_11N40SISO\_2422\_Ant1



## 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	4.65	-29.17	-25.36	PASS
11B	2462	Ant1	5.69	-48.36	-24.31	PASS
11G	2412	Ant1	2.06	-29.60	-27.94	PASS
11G	2462	Ant1	3.11	-41.24	-26.89	PASS
11N20SISO	2412	Ant1	2.30	-30.31	-27.70	PASS
11N20SISO	2462	Ant1	2.82	-35.46	-27.18	PASS
11N40SISO	2422	Ant1	-1.89	-35.73	-31.89	PASS
11N40SISO	2452	Ant1	-1.31	-42.15	-31.31	PASS

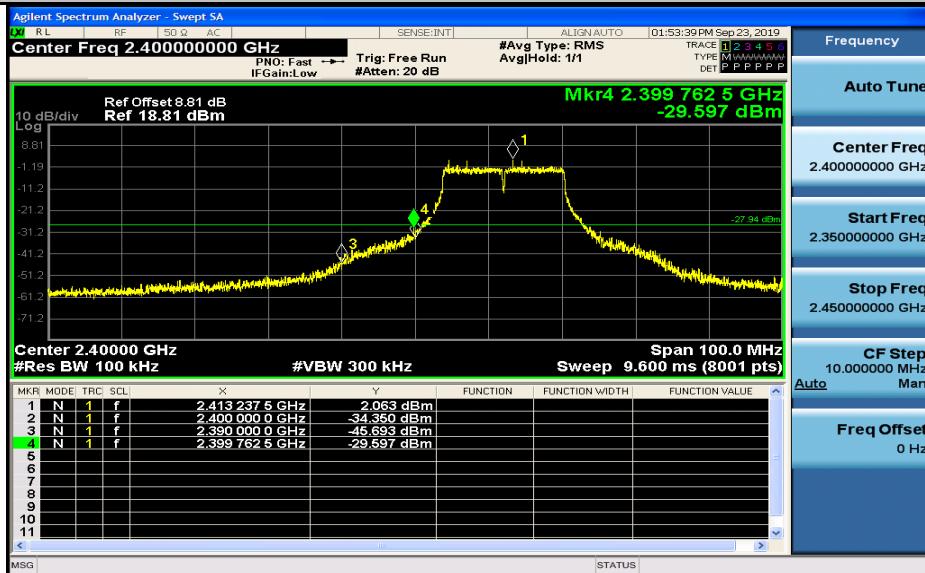
## Band-edge for RF Conducted Emissions\_11B\_2412\_Ant1



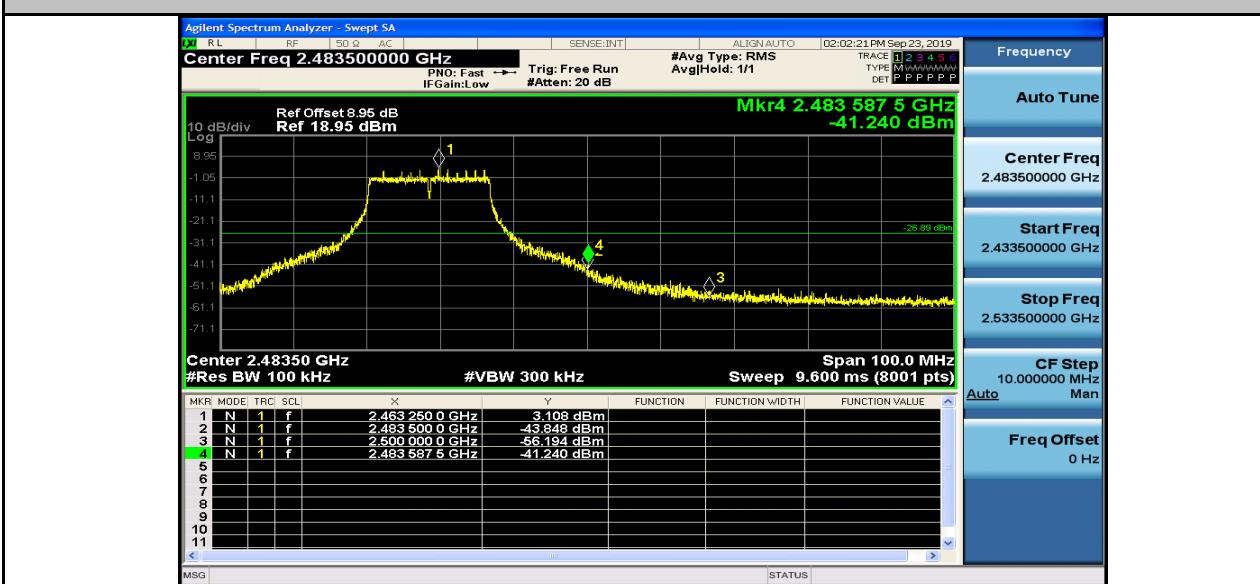
## Band-edge for RF Conducted Emissions\_11B\_2462\_Ant1



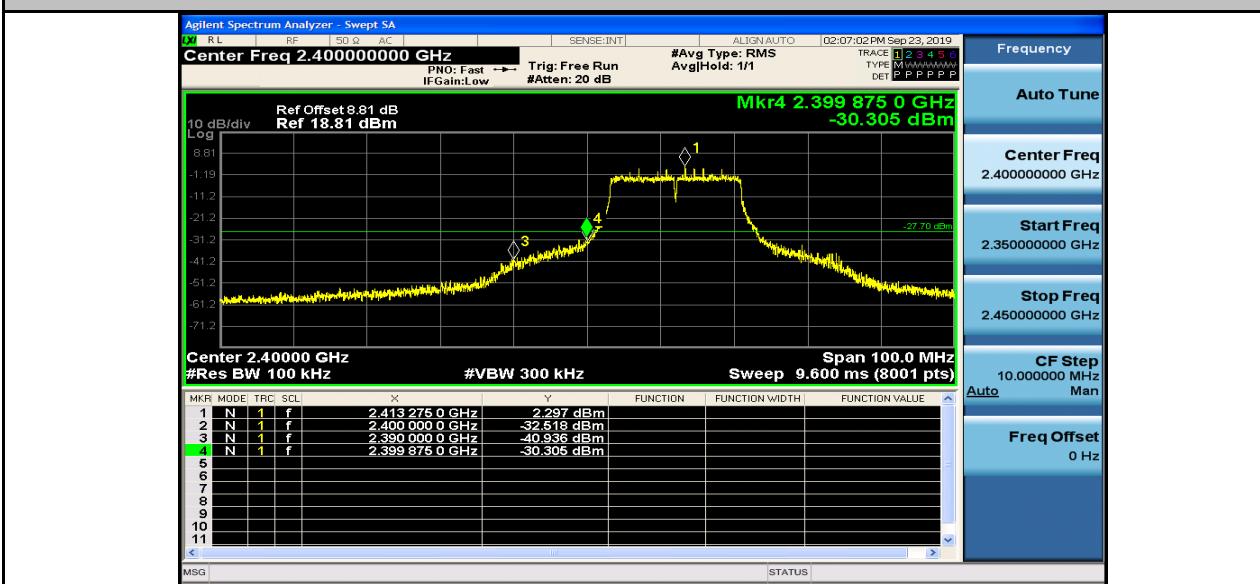
## Band-edge for RF Conducted Emissions\_11G\_2412\_Ant1



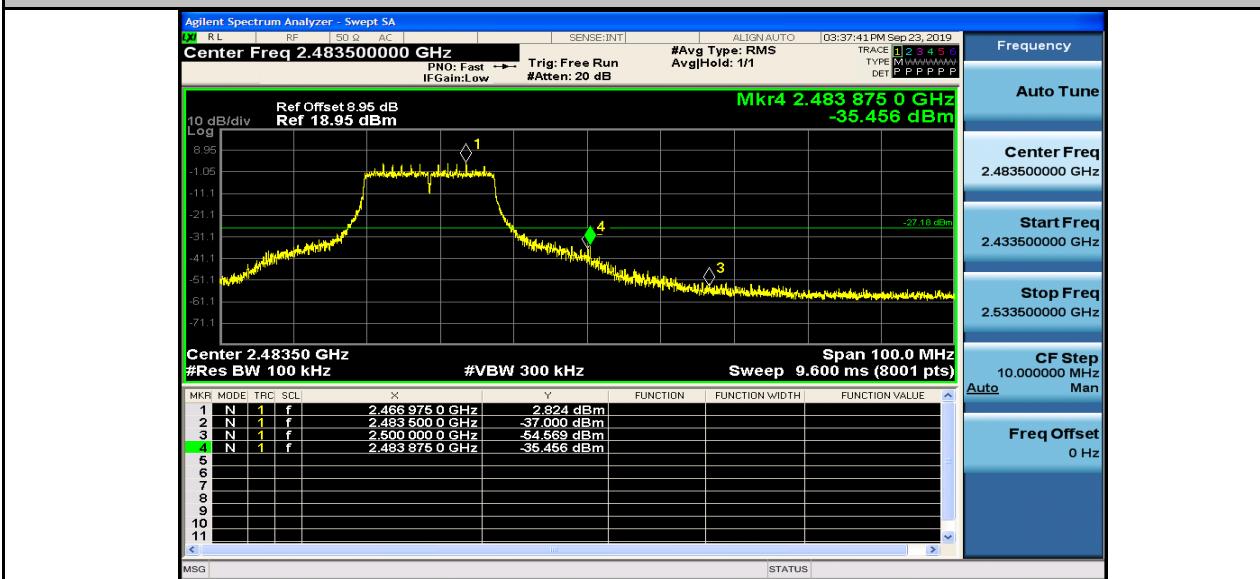
Band-edge for RF Conducted Emissions\_11G\_2462\_Ant1



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



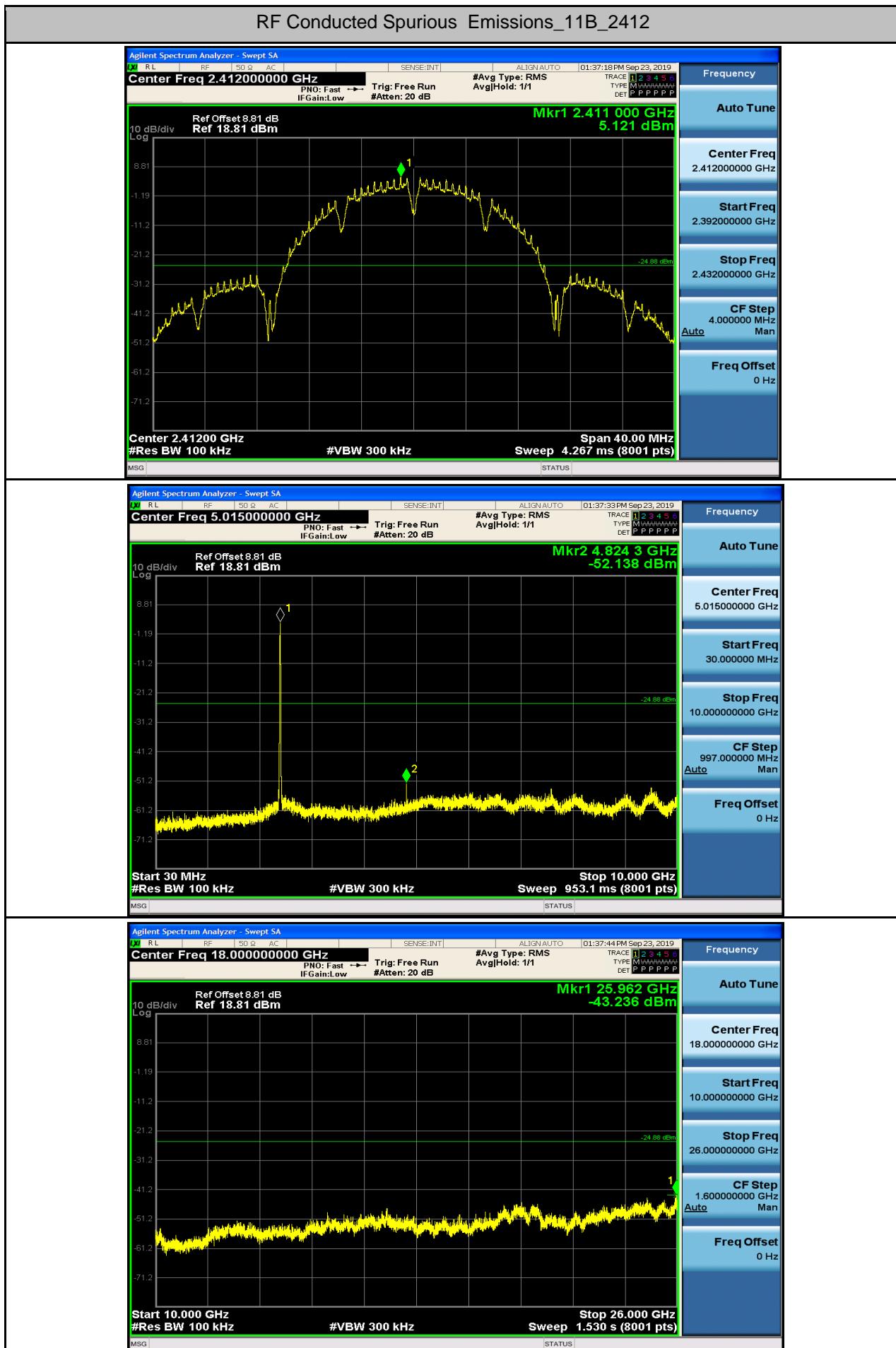


## 6.RF Conducted Spurious Emissions

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	5.12	-52.14	<- 24.88	PASS
11B	2412	Ant1	10000	26000	100	300	5.121	-43.236	<- 24.879	PASS
11B	2437	Ant1	30	10000	100	300	5.64	-50.63	<- 24.36	PASS
11B	2437	Ant1	10000	26000	100	300	5.641	-43.495	<- 24.359	PASS
11B	2462	Ant1	30	10000	100	300	5.94	-53.96	<- 24.06	PASS
11B	2462	Ant1	10000	26000	100	300	5.941	-42.887	<- 24.059	PASS
11G	2412	Ant1	30	10000	100	300	1.83	-53.54	<- 28.17	PASS
11G	2412	Ant1	10000	26000	100	300	1.828	-43.687	<- 28.172	PASS
11G	2437	Ant1	30	10000	100	300	2.78	-53.66	<- 27.22	PASS
11G	2437	Ant1	10000	26000	100	300	2.781	-42.431	<- 27.219	PASS
11G	2462	Ant1	30	10000	100	300	2.88	-53.40	<- 27.12	PASS
11G	2462	Ant1	10000	26000	100	300	2.884	-43.263	<- 27.116	PASS
11N20SISO	2412	Ant1	30	10000	100	300	2.27	-53.49	<- 27.74	PASS
11N20SISO	2412	Ant1	10000	26000	100	300	2.265	-43.440	<- 27.735	PASS
11N20SISO	2437	Ant1	30	10000	100	300	2.92	-53.62	<- 27.08	PASS
11N20SISO	2437	Ant1	10000	26000	100	300	2.921	-44.411	<- 27.079	PASS
11N20SISO	2462	Ant1	30	10000	100	300	2.96	-53.40	<- 27.04	PASS
11N20SISO	2462	Ant1	10000	26000	100	300	2.96	-44.371	<- 27.04	PASS
11N40SISO	2422	Ant1	30	10000	100	300	-1.80	-53.34	<- 31.80	PASS
11N40SISO	2422	Ant1	10000	26000	100	300	-1.795	-43.261	<- 31.795	PASS
11N40SISO	2437	Ant1	30	10000	100	300	-1.52	-53.54	<- 31.52	PASS
11N40SISO	2437	Ant1	10000	26000	100	300	-1.515	-43.842	<- 31.515	PASS
11N40SISO	2452	Ant1	30	10000	100	300	-1.30	-54.12	<- 31.30	PASS



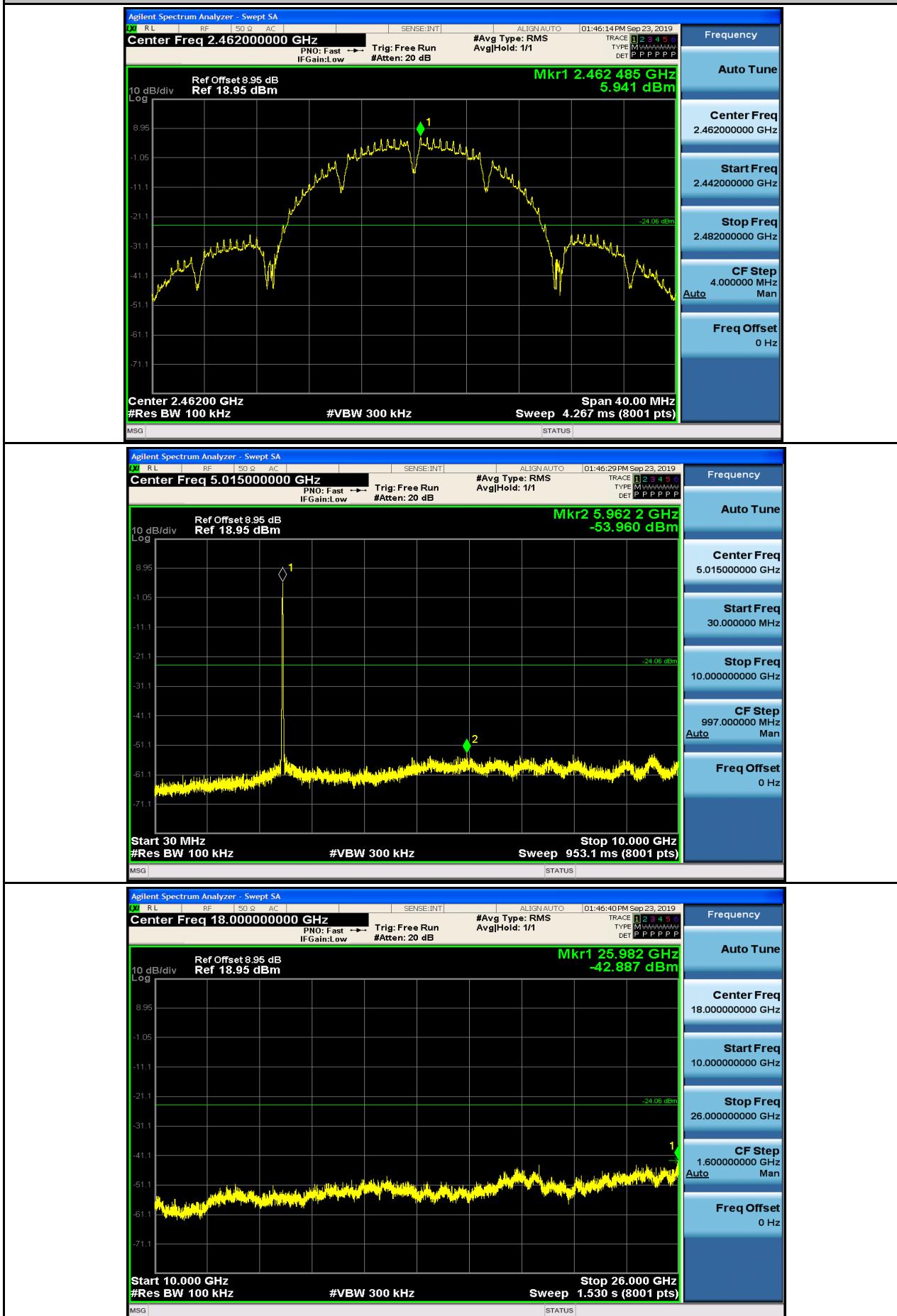
11N40SISO	2452	Ant1	10000	26000	100	300	-1.295	-44.338	< 31.295	PASS
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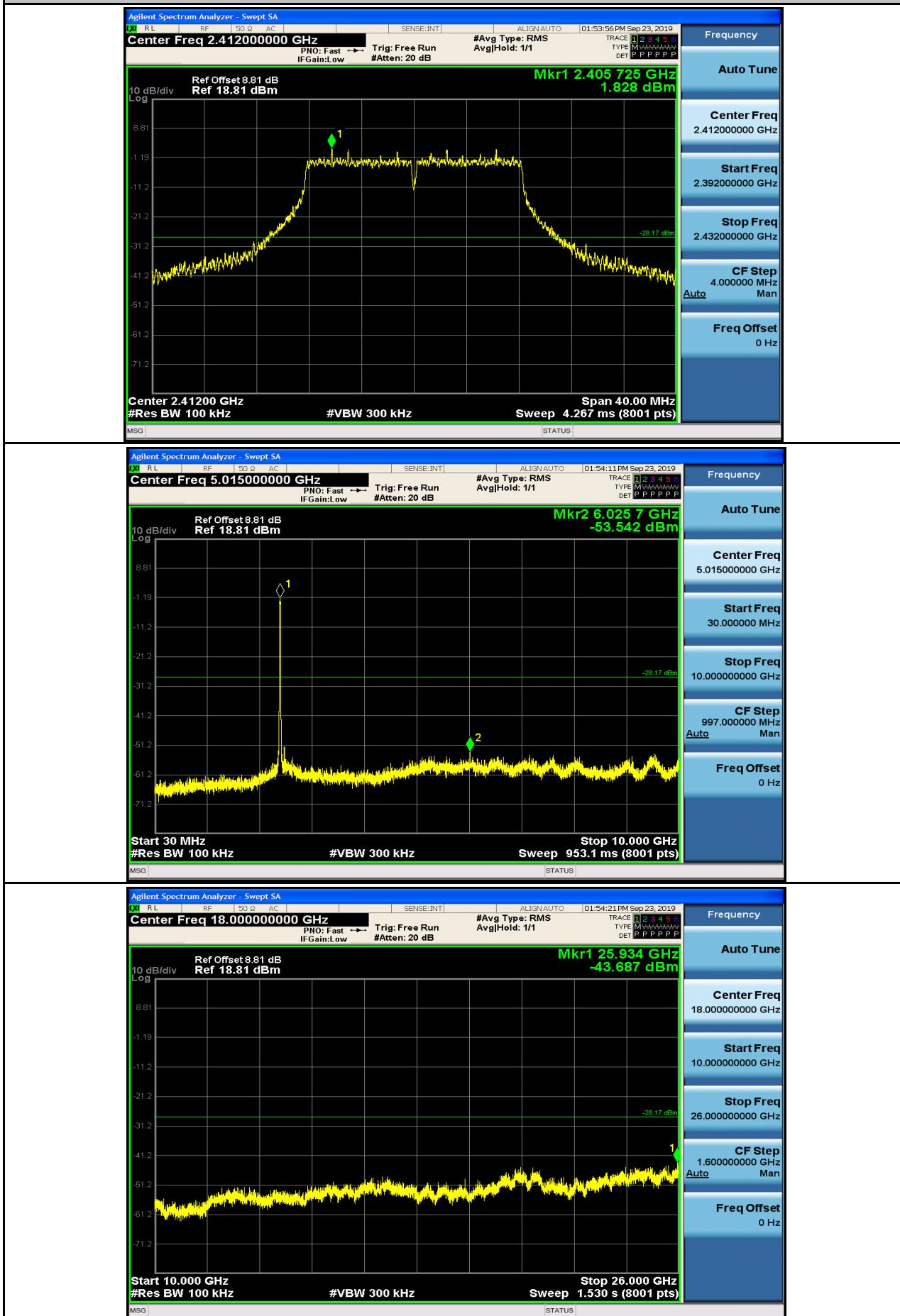
## RF Conducted Spurious Emissions\_11B\_2437



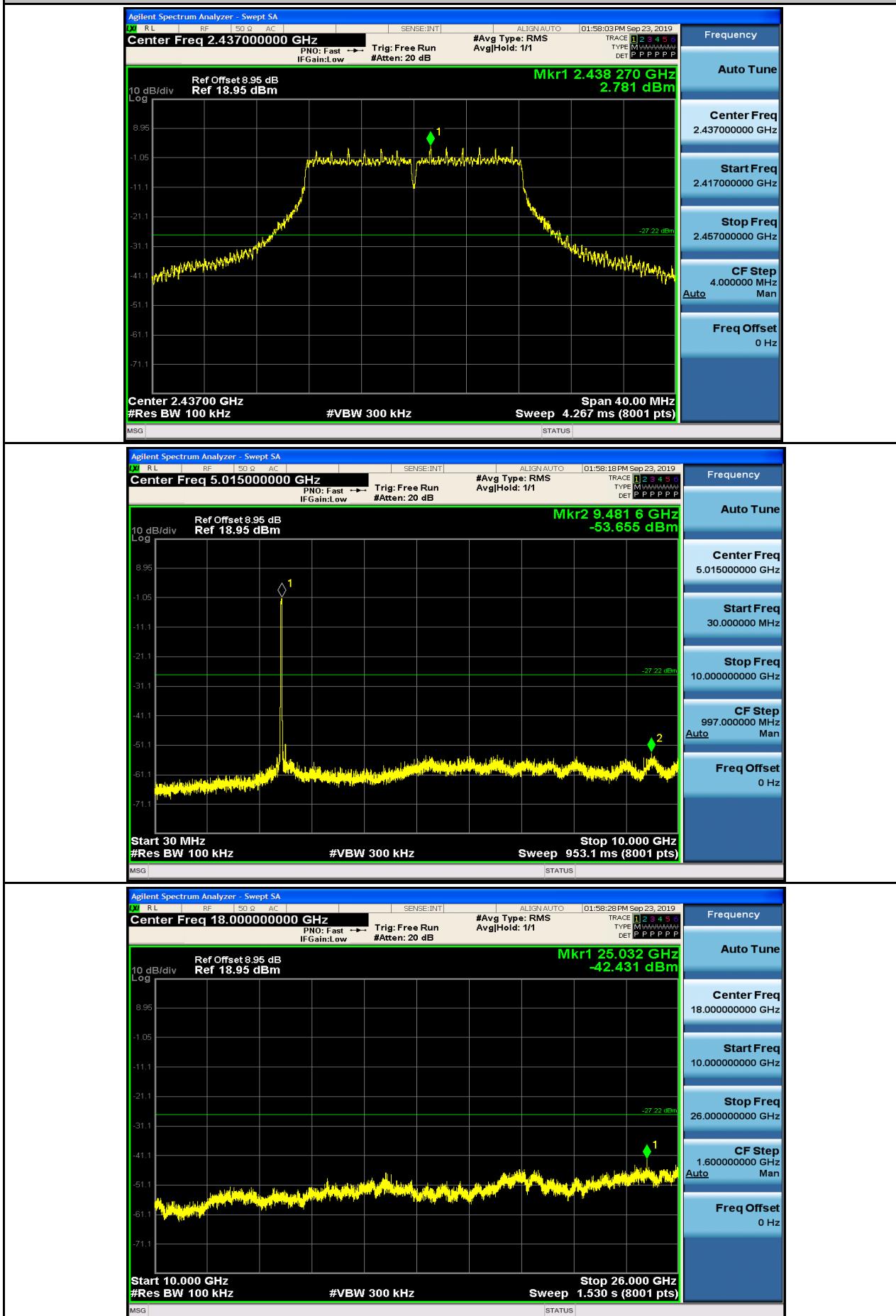
## RF Conducted Spurious Emissions\_11B\_2462



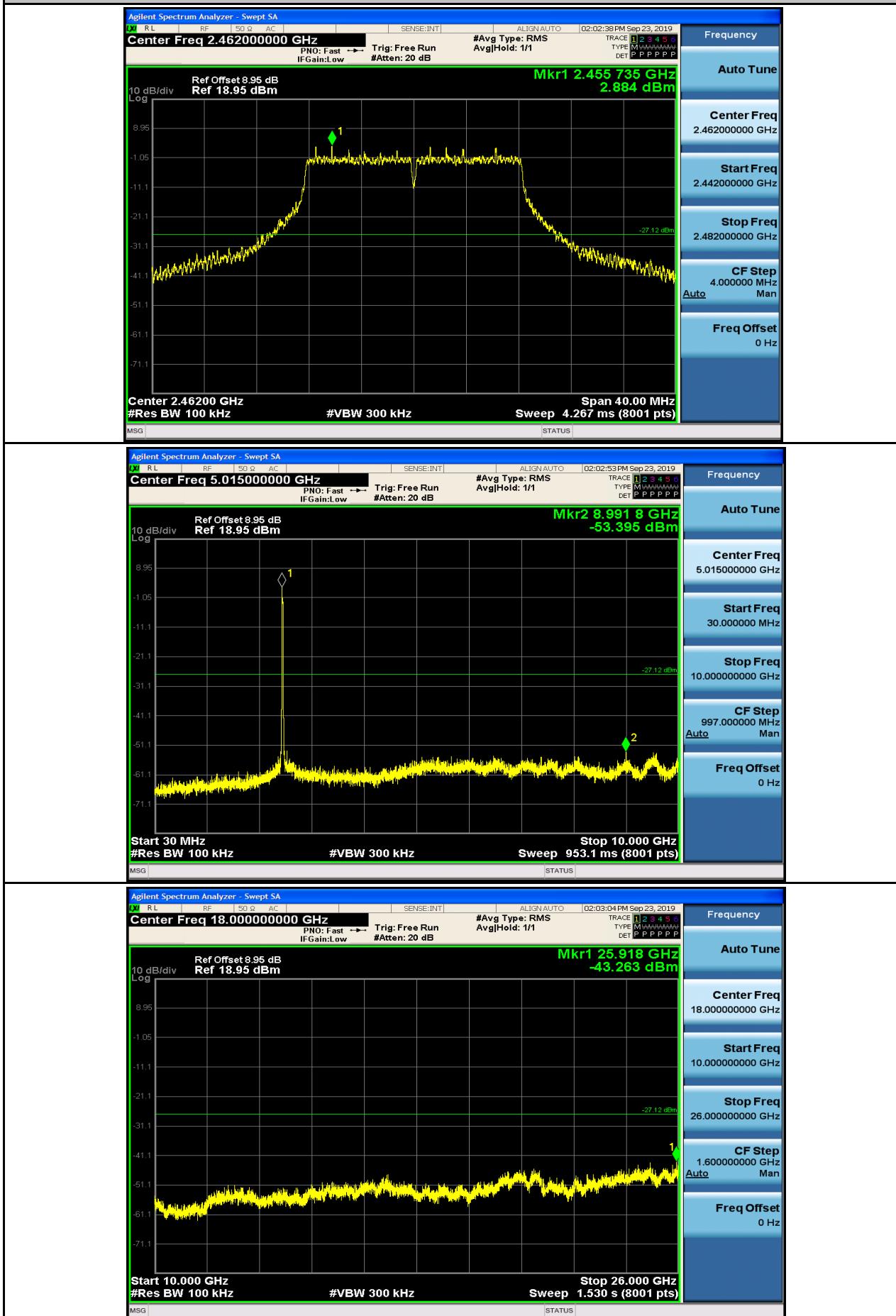
## RF Conducted Spurious Emissions\_11G\_2412



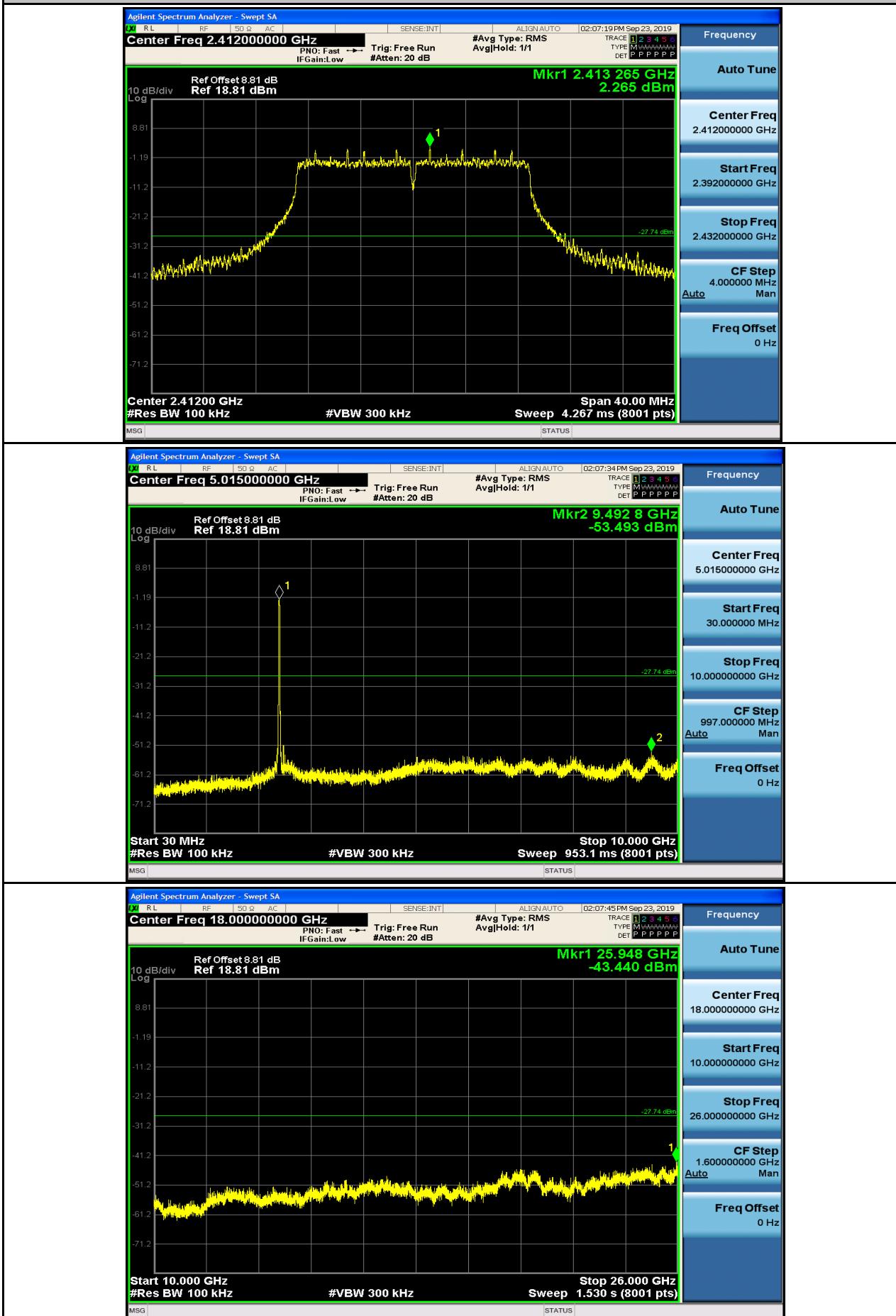
## RF Conducted Spurious Emissions\_11G\_2437



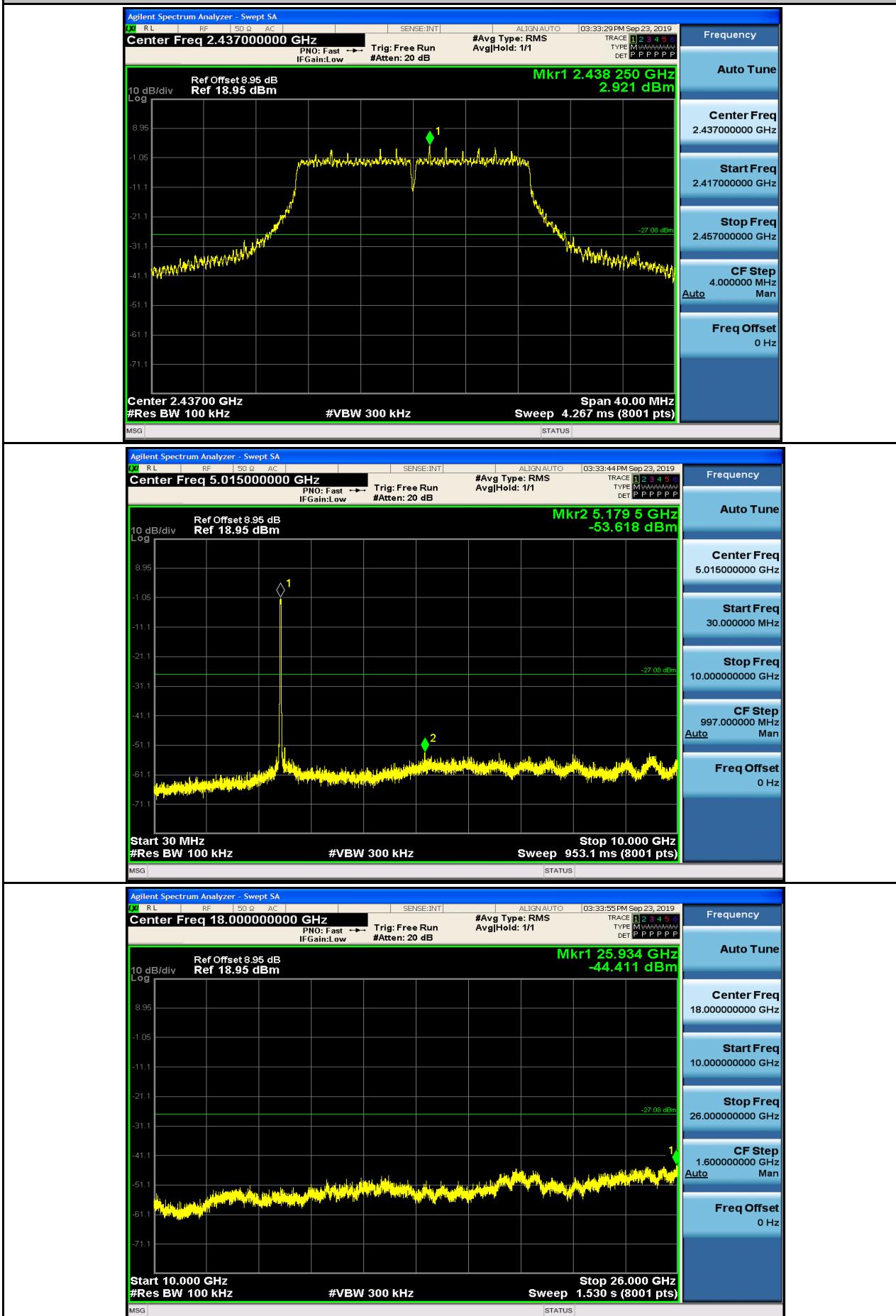
## RF Conducted Spurious Emissions\_11G\_2462



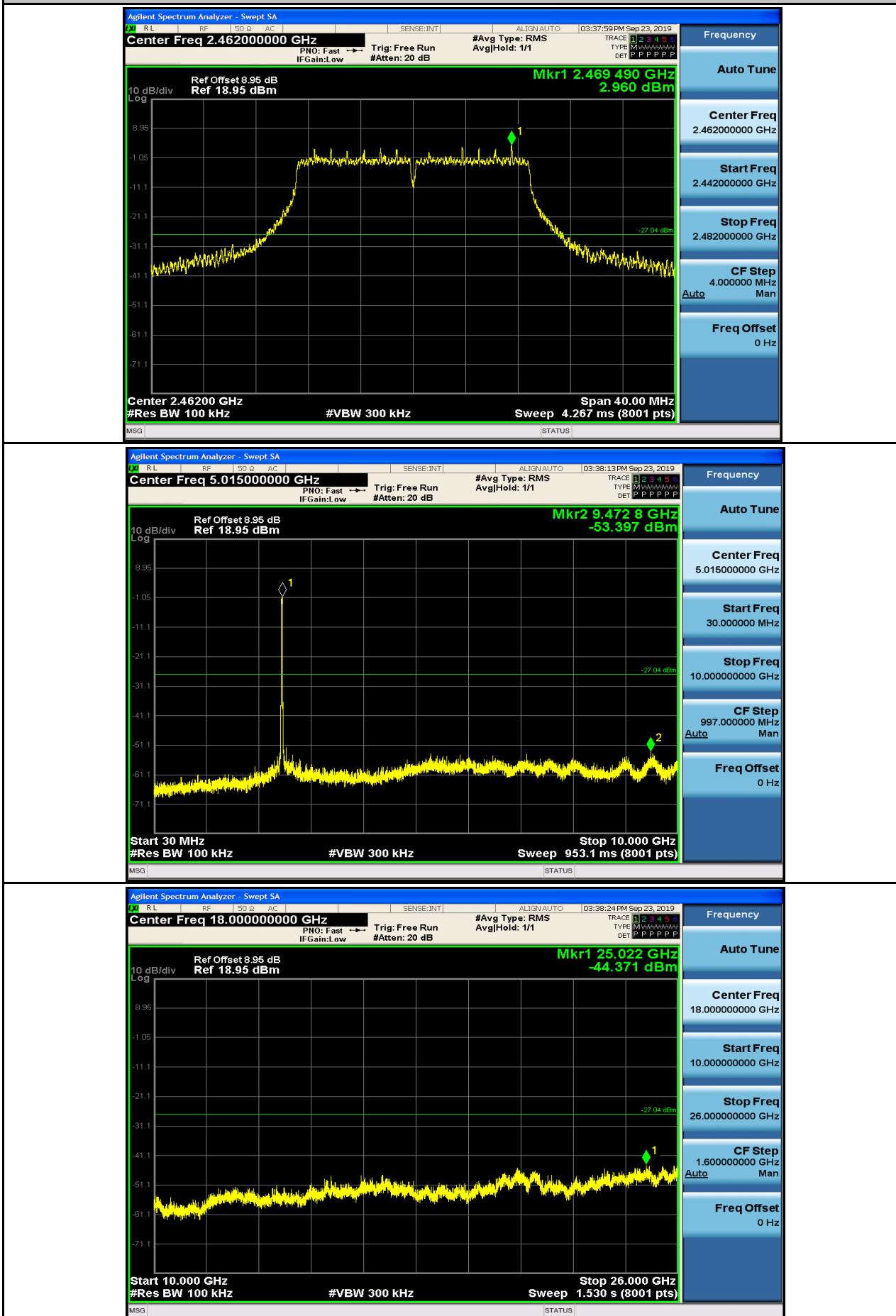
## RF Conducted Spurious Emissions\_11N20SISO\_2412



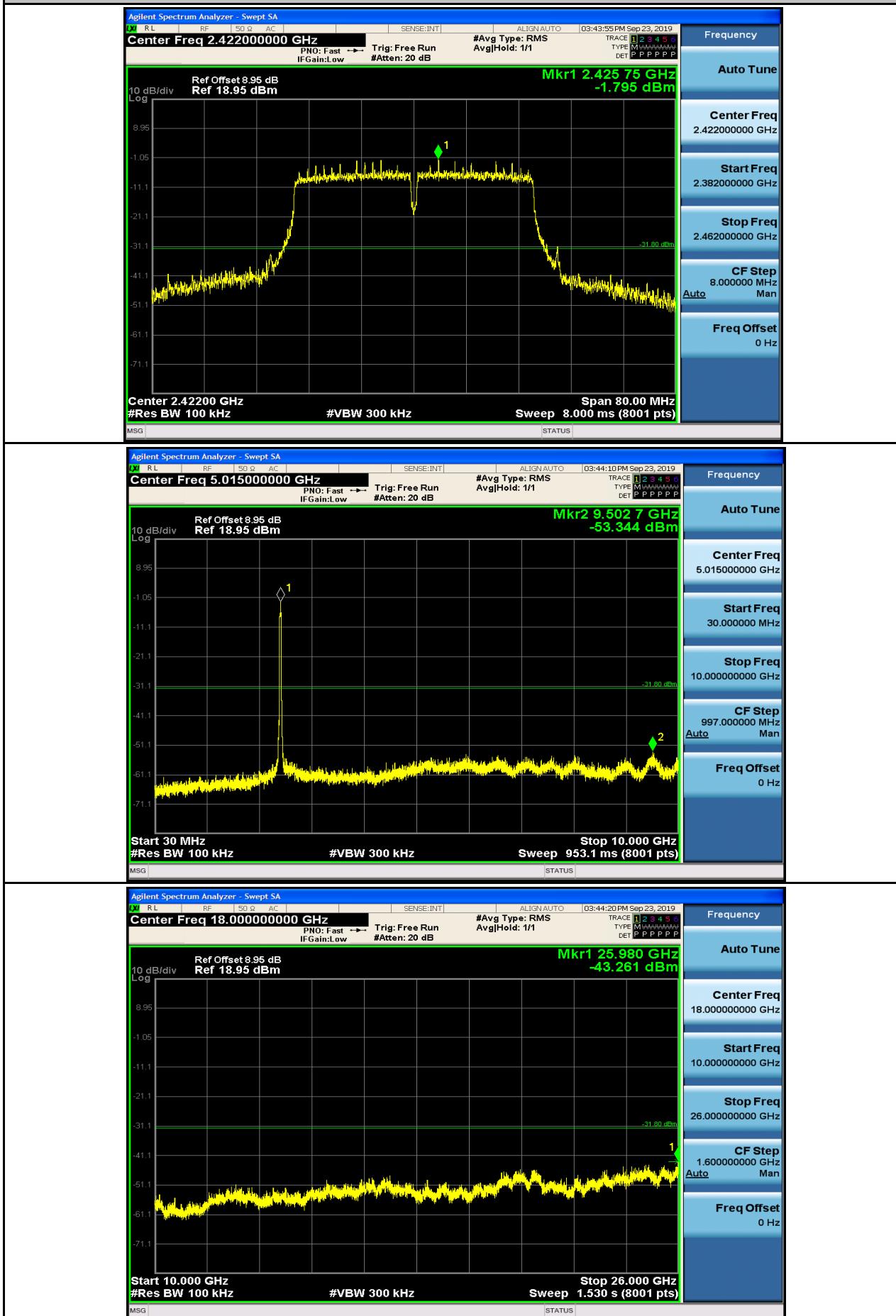
## RF Conducted Spurious Emissions\_11N20SISO\_2437



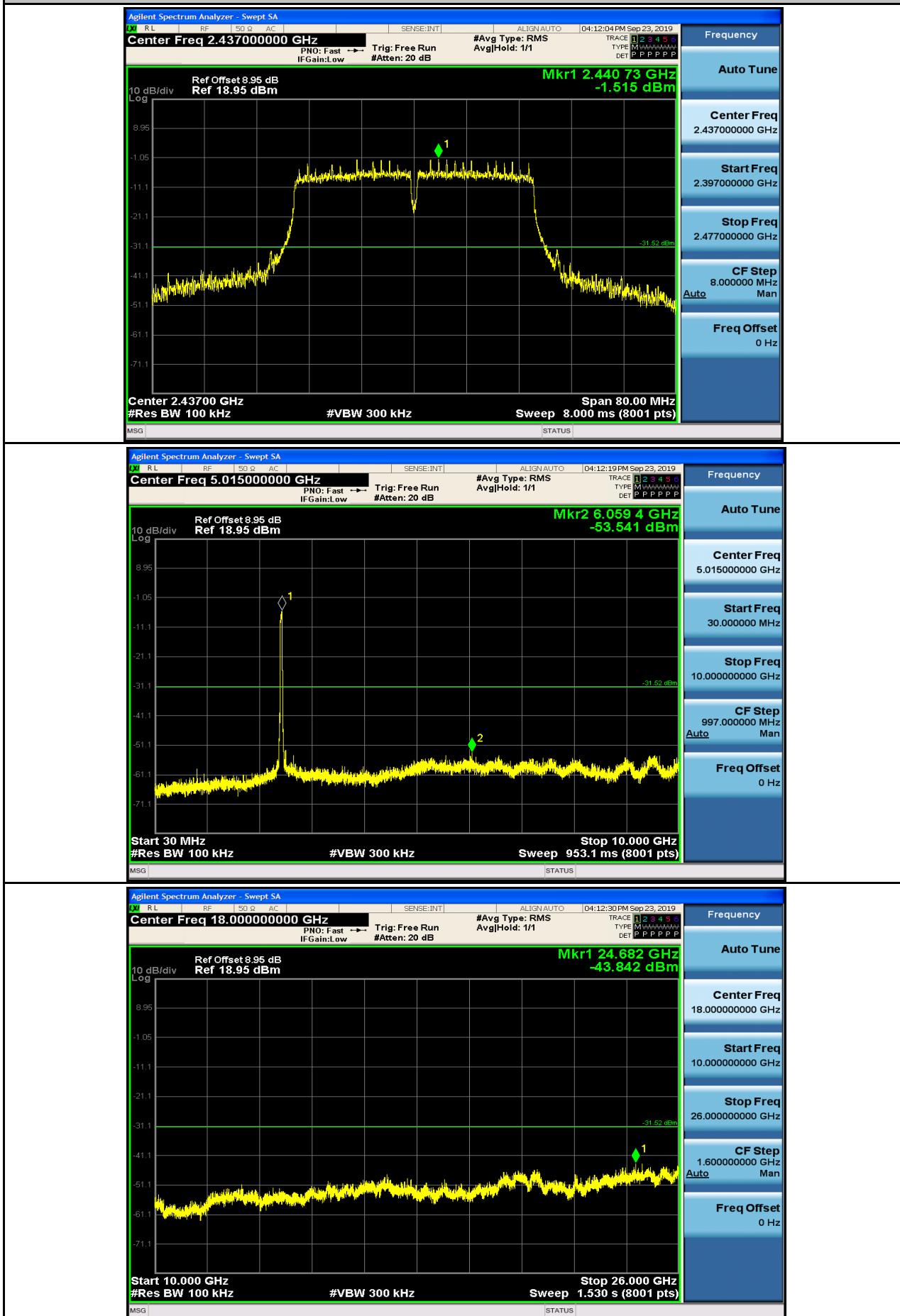
## RF Conducted Spurious Emissions\_11N20SISO\_2462



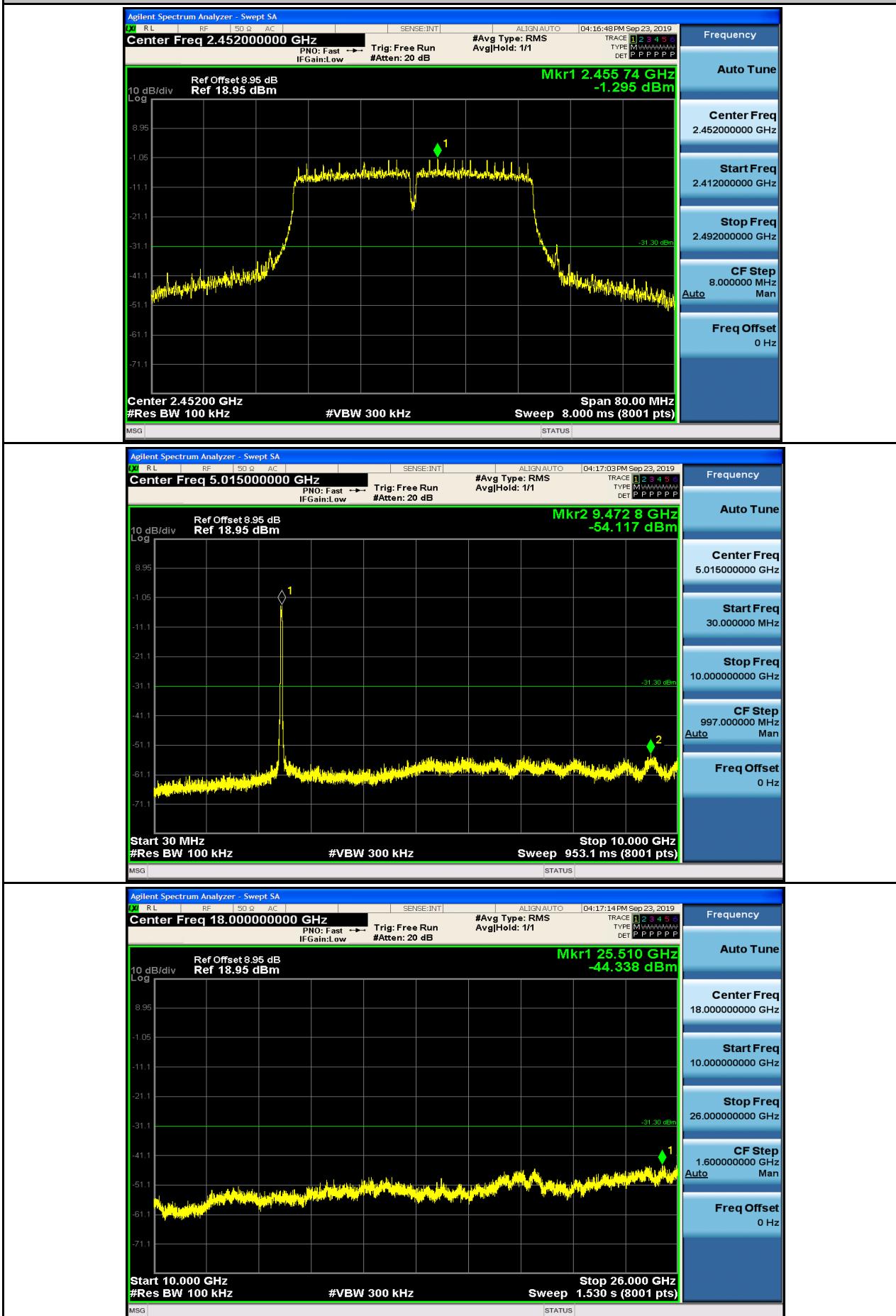
## RF Conducted Spurious Emissions\_11N40SISO\_2422



## RF Conducted Spurious Emissions\_11N40SISO\_2437



## RF Conducted Spurious Emissions\_11N40SISO\_2452

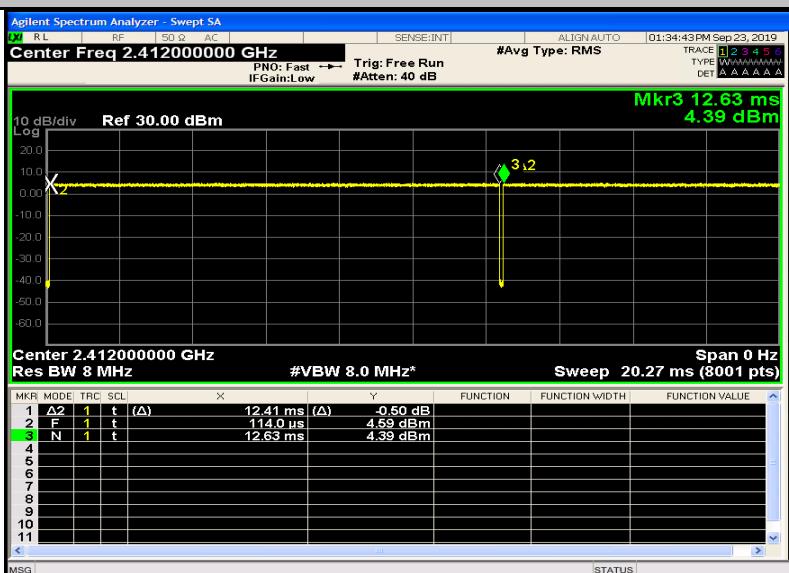




## 7.Duty Cycle

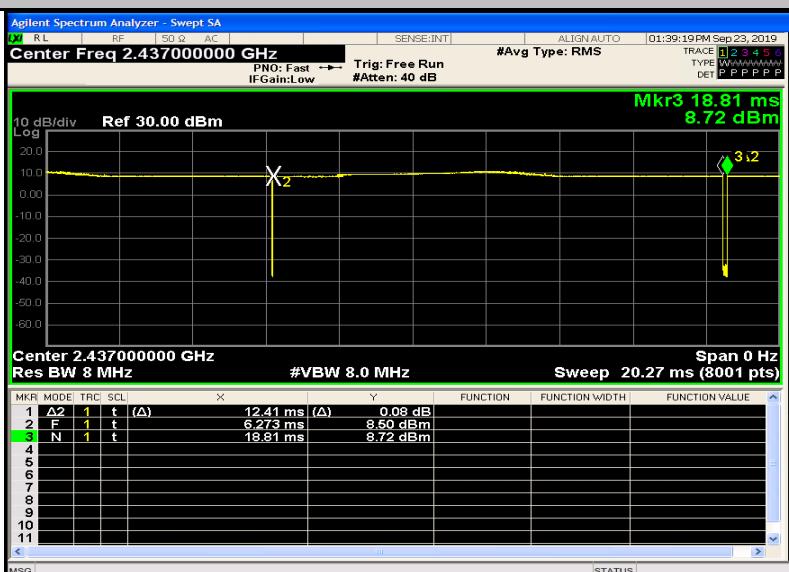
Test Mode	Test Channel	Ant	Duty Cycle[%]	10log(1/x) Factor[dB]
11B	2412	Ant1	99.17	0.04
11B	2437	Ant1	99.03	0.04
11B	2462	Ant1	98.73	0.06
11G	2412	Ant1	95.65	0.19
11G	2437	Ant1	97.13	0.13
11G	2462	Ant1	97.25	0.12
11N20SISO	2412	Ant1	93.22	0.30
11N20SISO	2437	Ant1	93.09	0.31
11N20SISO	2462	Ant1	91.53	0.38
11N40SISO	2422	Ant1	92.52	0.34
11N40SISO	2437	Ant1	95.13	0.22
11N40SISO	2452	Ant1	90.02	0.46

## Duty Cycle\_11B\_2412\_Ant1



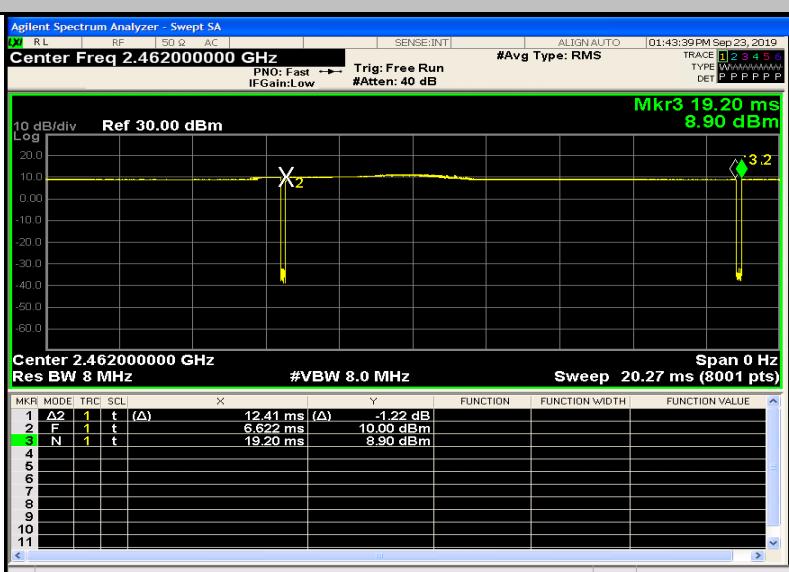
Frequency  
Auto Tune  
Center Freq  
2.412000000 GHz  
Start Freq  
2.412000000 GHz  
Stop Freq  
2.412000000 GHz  
CF Step  
8.000000 MHz Man  
Freq Offset  
0 Hz

## Duty Cycle\_11B\_2437\_Ant1



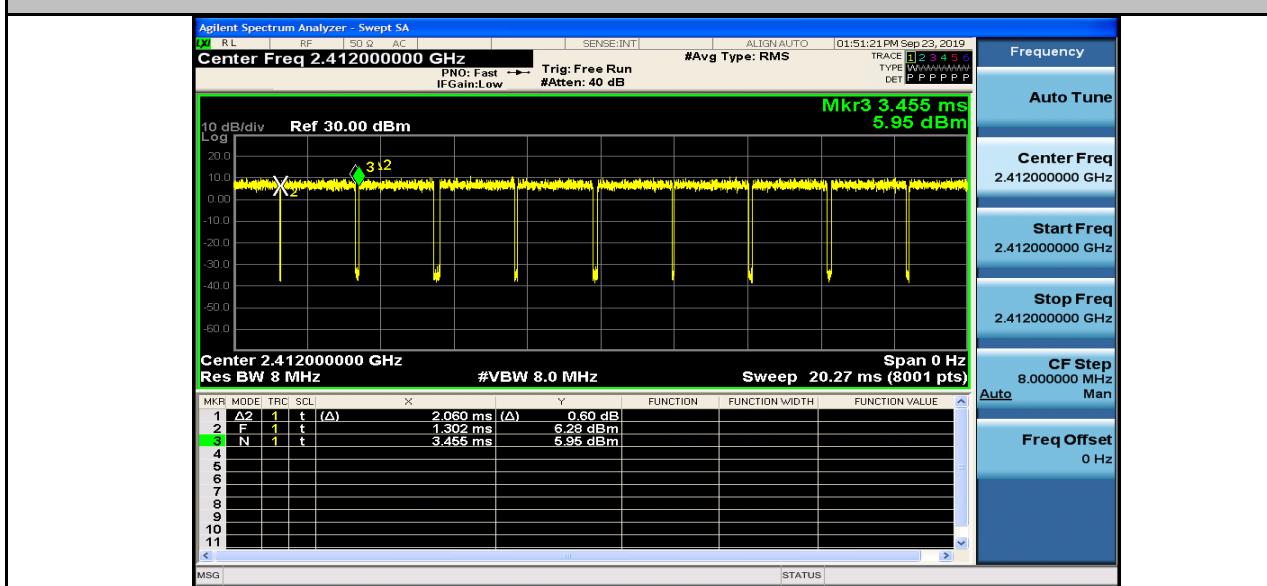
Frequency  
Auto Tune  
Center Freq  
2.437000000 GHz  
Start Freq  
2.437000000 GHz  
Stop Freq  
2.437000000 GHz  
CF Step  
8.000000 MHz Man  
Freq Offset  
0 Hz

## Duty Cycle\_11B\_2462\_Ant1

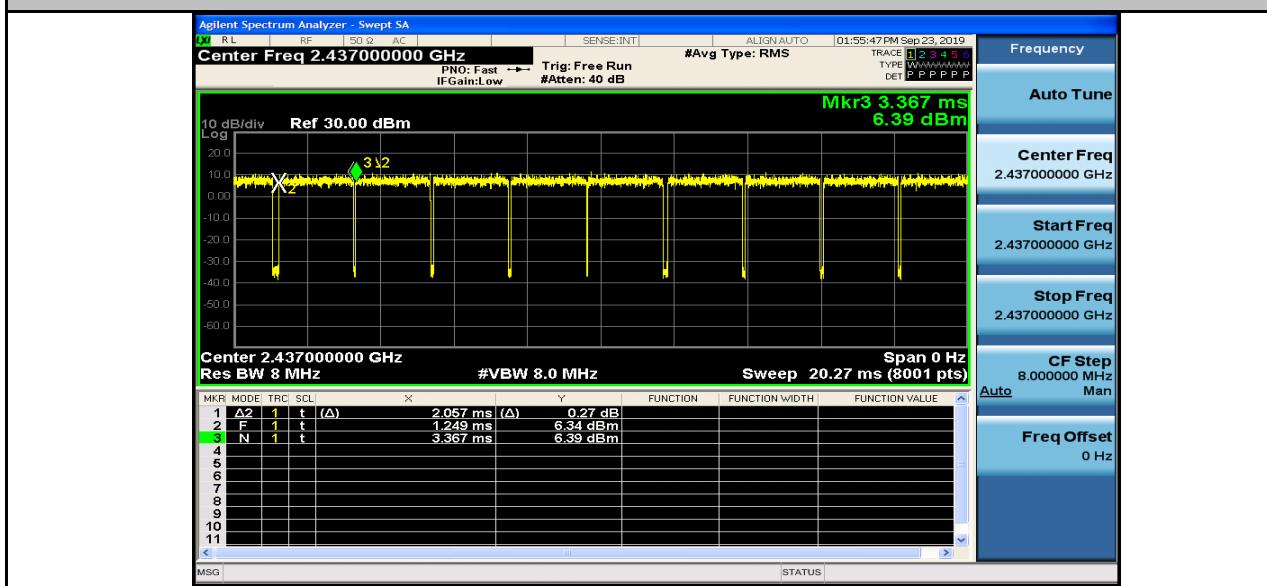


Frequency  
Auto Tune  
Center Freq  
2.462000000 GHz  
Start Freq  
2.462000000 GHz  
Stop Freq  
2.462000000 GHz  
CF Step  
8.000000 MHz Man  
Freq Offset  
0 Hz

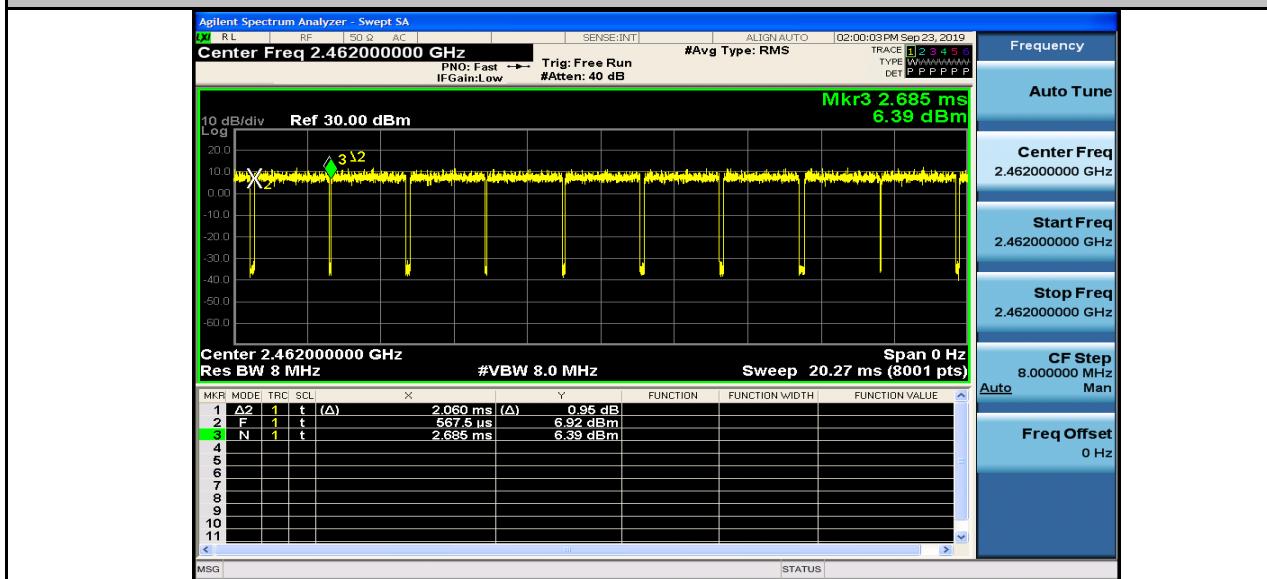
## Duty Cycle\_11G\_2412\_Ant1



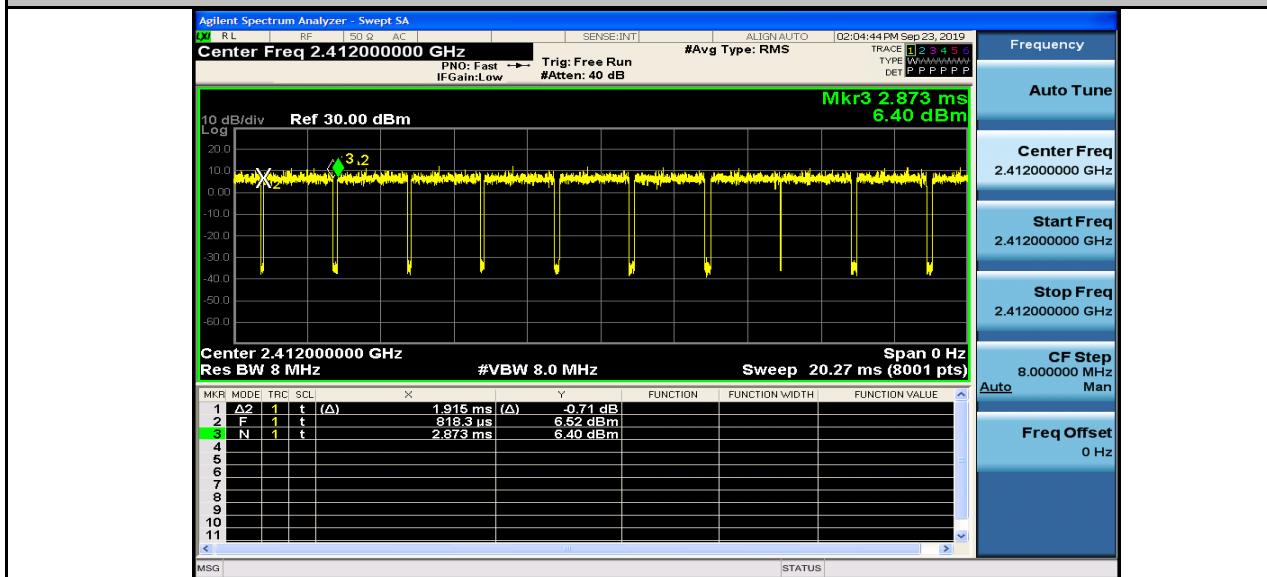
## Duty Cycle\_11G\_2437\_Ant1



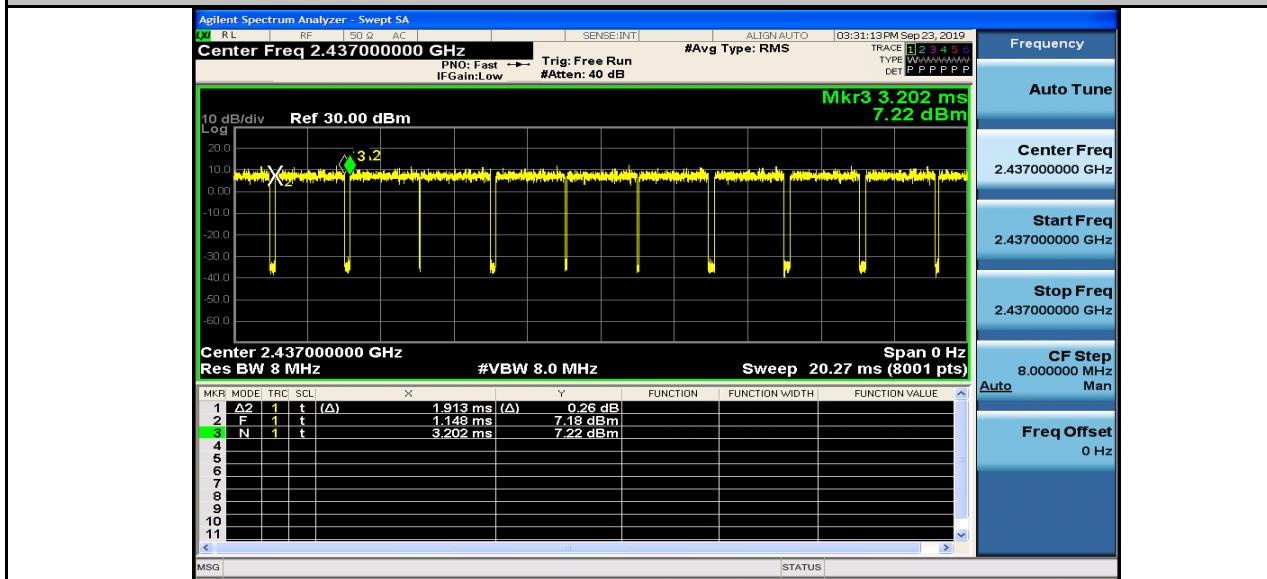
## Duty Cycle\_11G\_2462\_Ant1



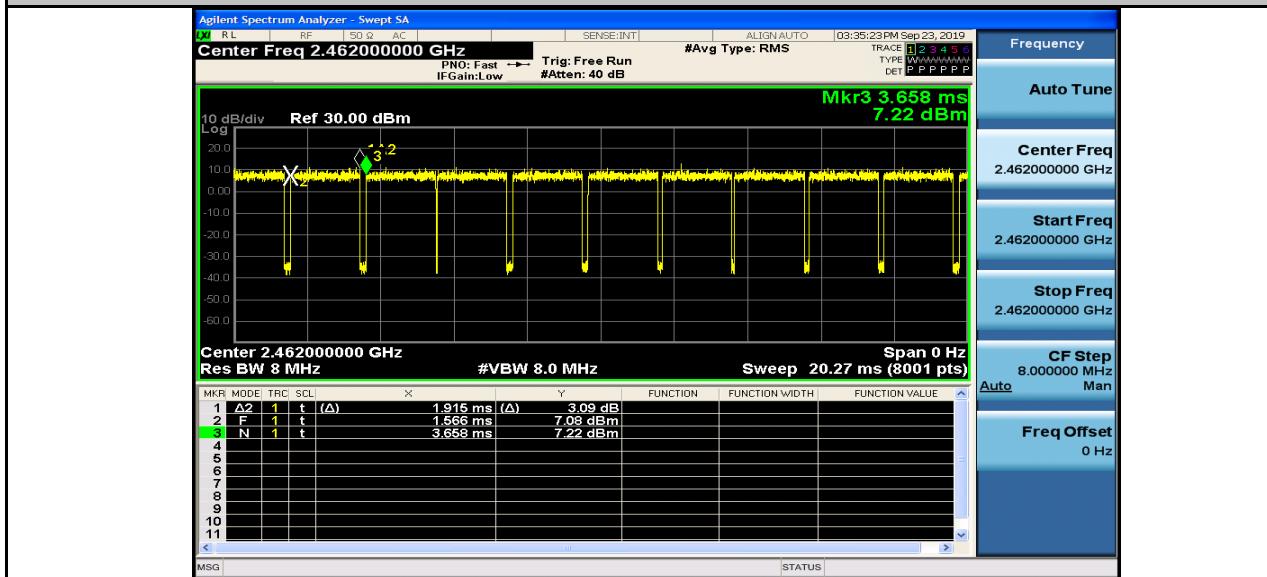
## Duty Cycle\_11N20SISO\_2412\_Ant1



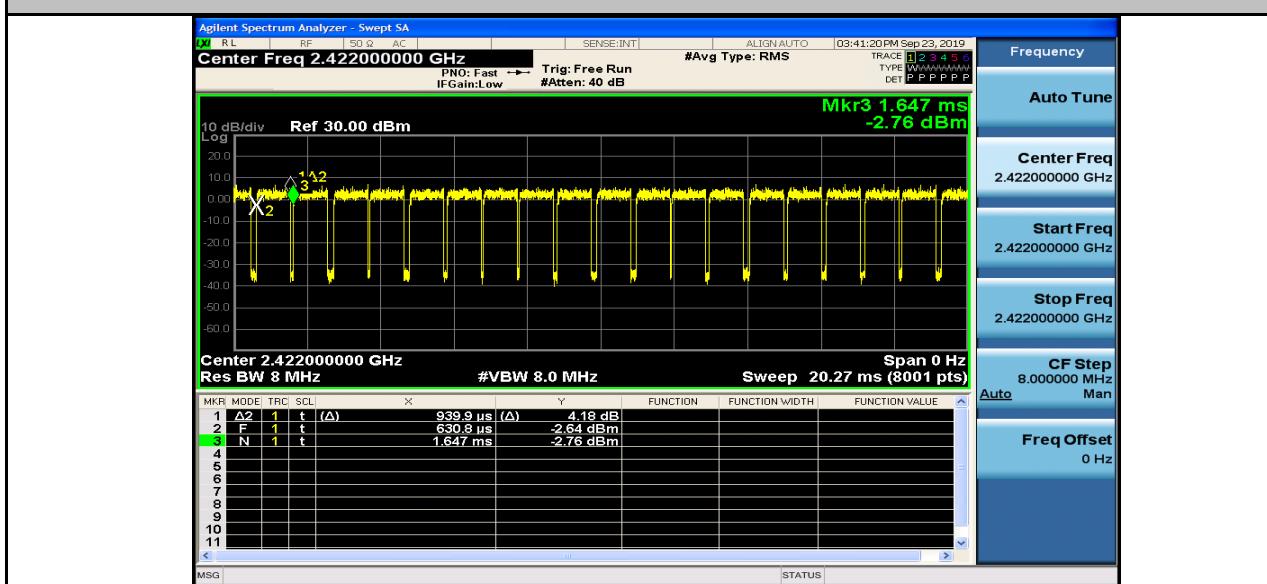
## Duty Cycle\_11N20SISO\_2437\_Ant1



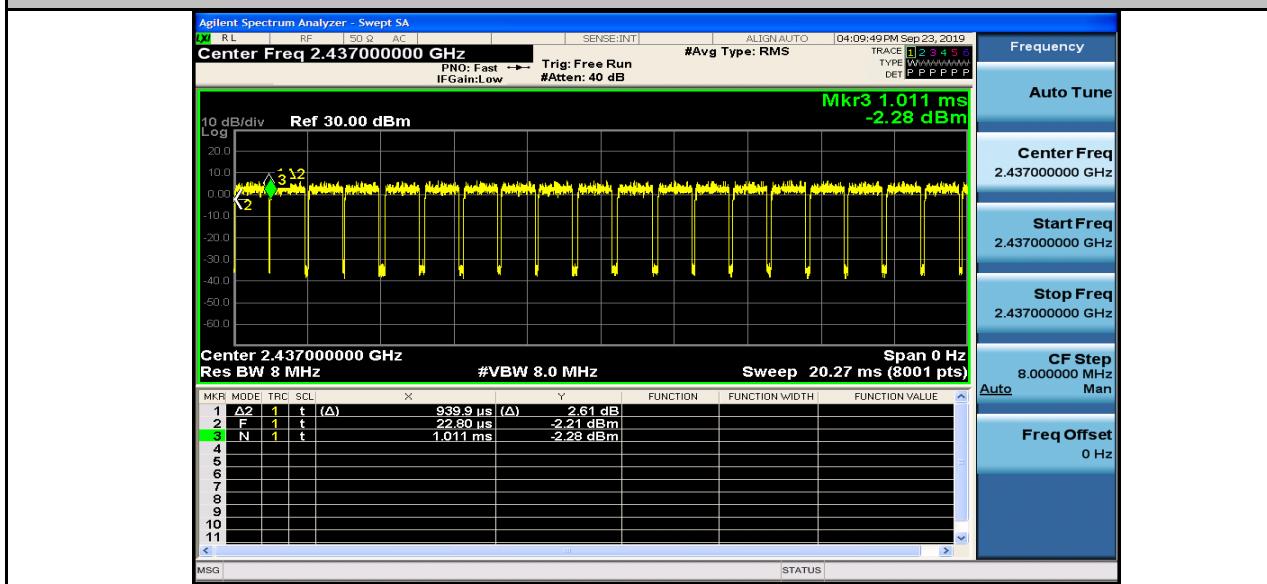
## Duty Cycle\_11N20SISO\_2462\_Ant1



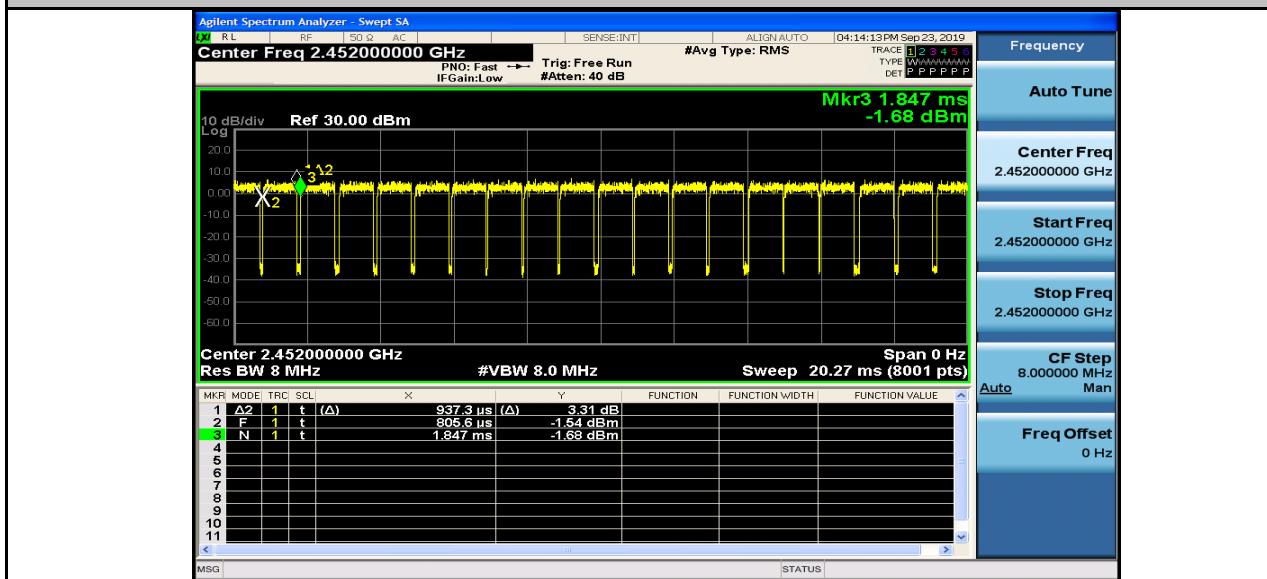
## Duty Cycle\_11N40SISO\_2422\_Ant1



## Duty Cycle\_11N40SISO\_2437\_Ant1



## Duty Cycle\_11N40SISO\_2452\_Ant1





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