

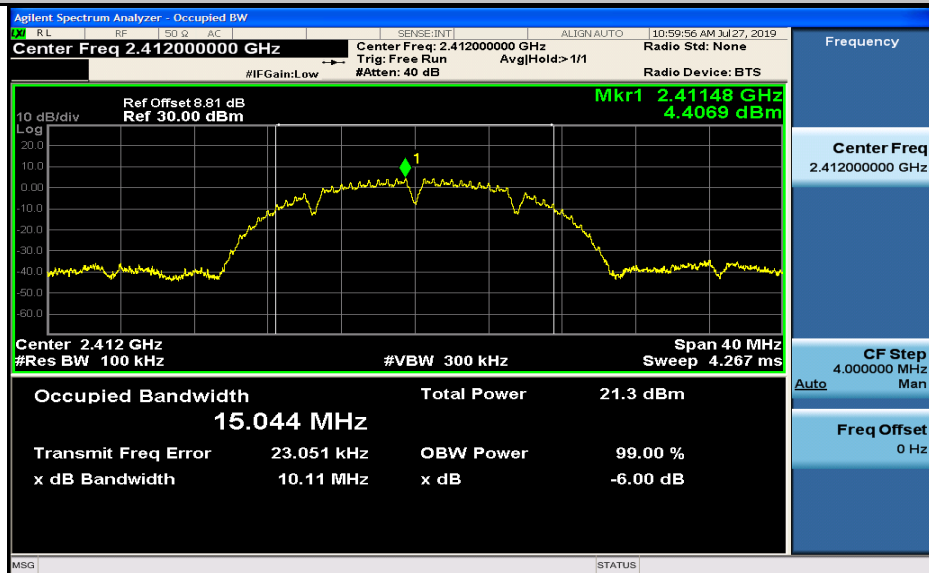


## Appendix A SHEM190701519901

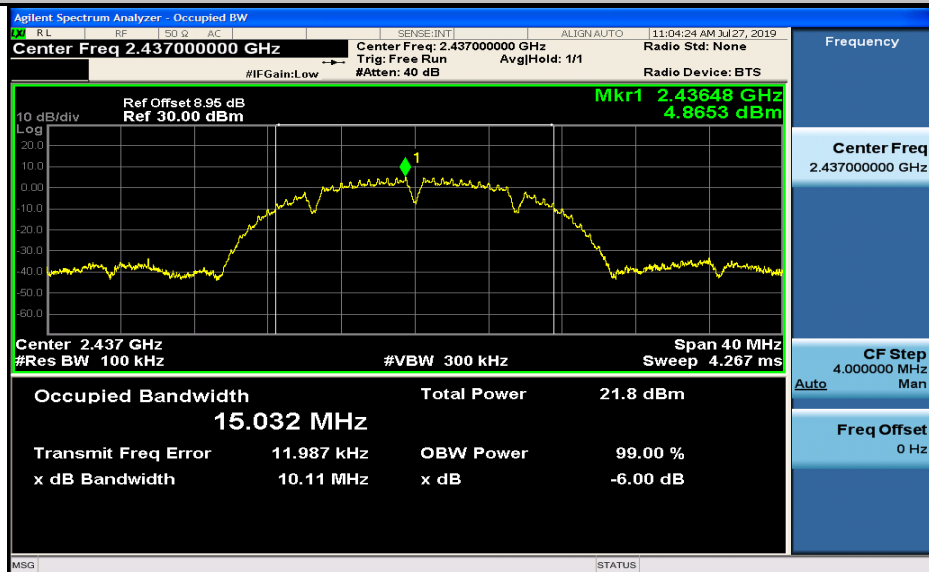
## 1.6dB Bandwidth

| Test Mode | Test Channel | Ant  | EBW[MHz] | Limit | Verdict |
|-----------|--------------|------|----------|-------|---------|
| 11B       | 2412         | Ant1 | 10.11    | 0.5   | PASS    |
| 11B       | 2437         | Ant1 | 10.11    | 0.5   | PASS    |
| 11B       | 2462         | Ant1 | 10.11    | 0.5   | PASS    |
| 11G       | 2412         | Ant1 | 16.57    | 0.5   | PASS    |
| 11G       | 2437         | Ant1 | 16.56    | 0.5   | PASS    |
| 11G       | 2462         | Ant1 | 16.55    | 0.5   | PASS    |
| 11N20SISO | 2412         | Ant1 | 17.74    | 0.5   | PASS    |
| 11N20SISO | 2437         | Ant1 | 17.75    | 0.5   | PASS    |
| 11N20SISO | 2462         | Ant1 | 17.70    | 0.5   | PASS    |
| 11N40SISO | 2422         | Ant1 | 36.48    | 0.5   | PASS    |
| 11N40SISO | 2437         | Ant1 | 36.54    | 0.5   | PASS    |
| 11N40SISO | 2452         | Ant1 | 36.48    | 0.5   | PASS    |

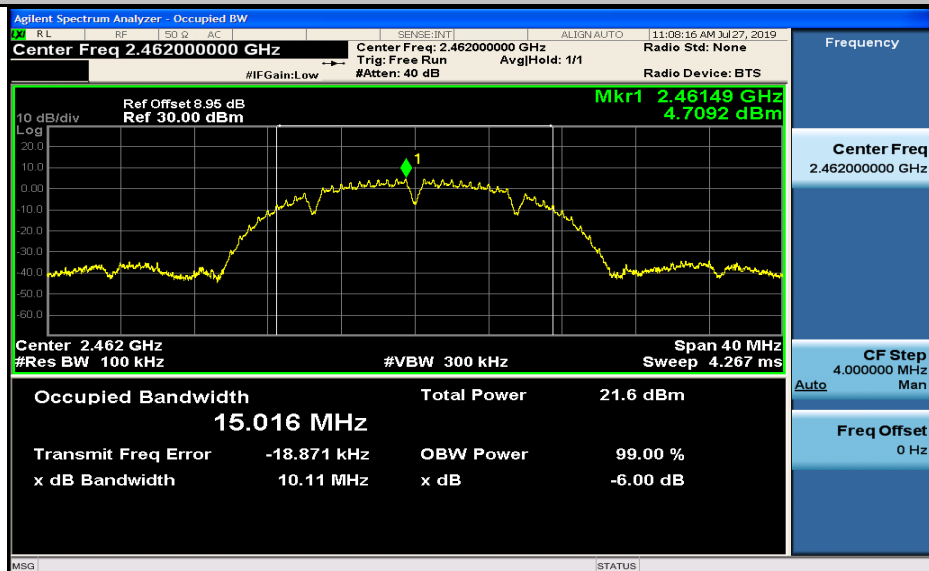
6dB Bandwidth\_11B\_2412\_Ant1



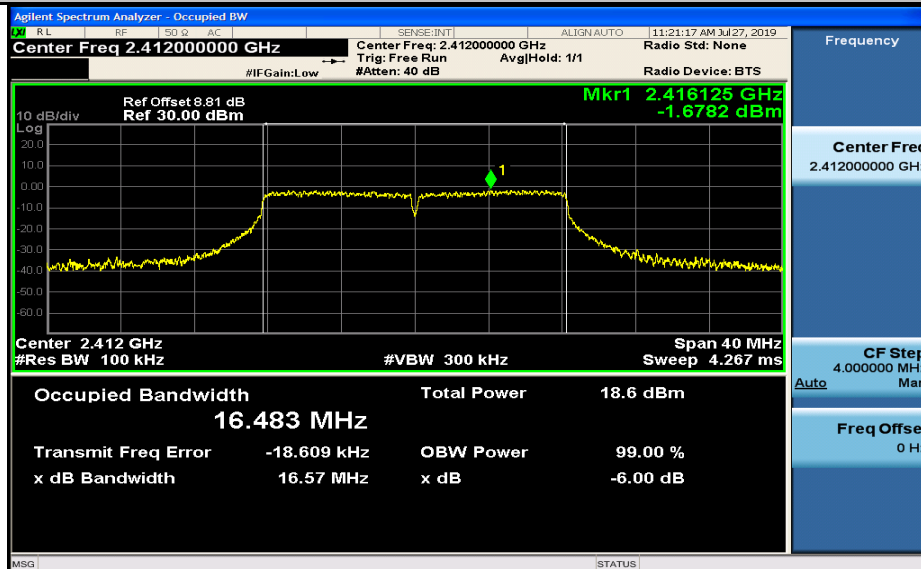
6dB Bandwidth\_11B\_2437\_Ant1



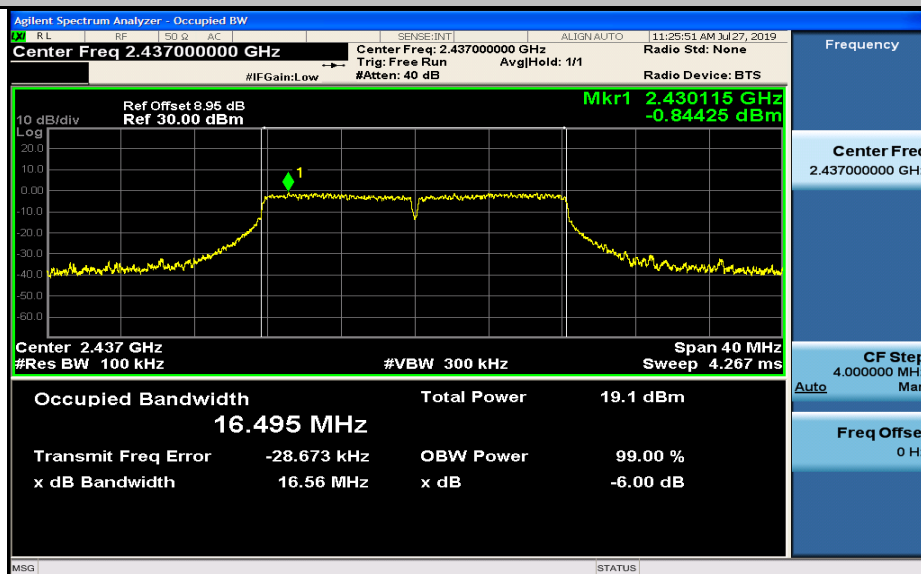
6dB Bandwidth\_11B\_2462\_Ant1



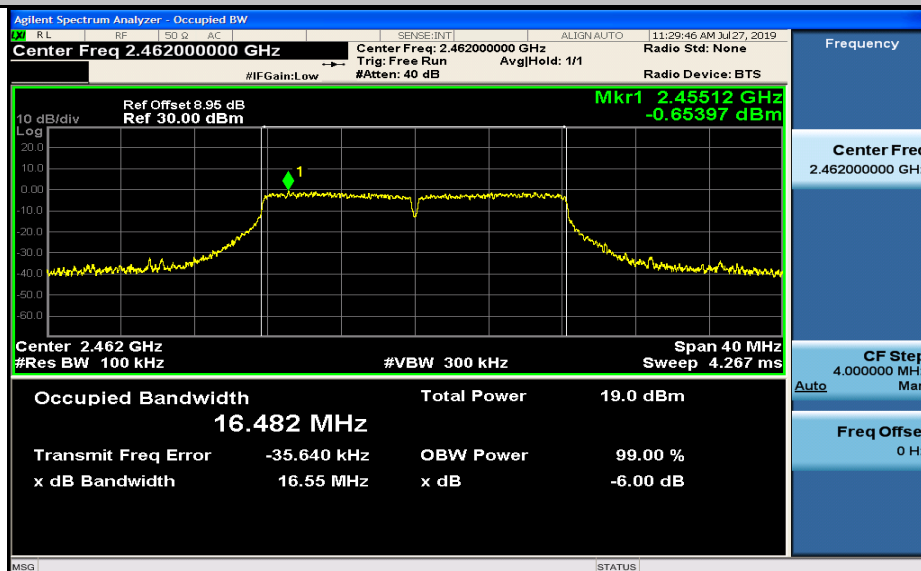
### 6dB Bandwidth\_11G\_2412\_Ant1



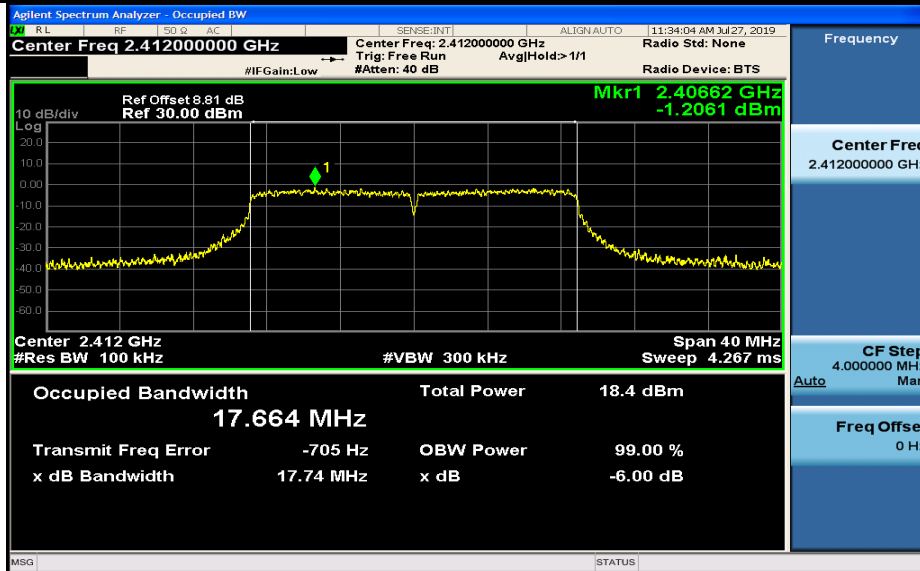
### 6dB Bandwidth\_11G\_2437\_Ant1



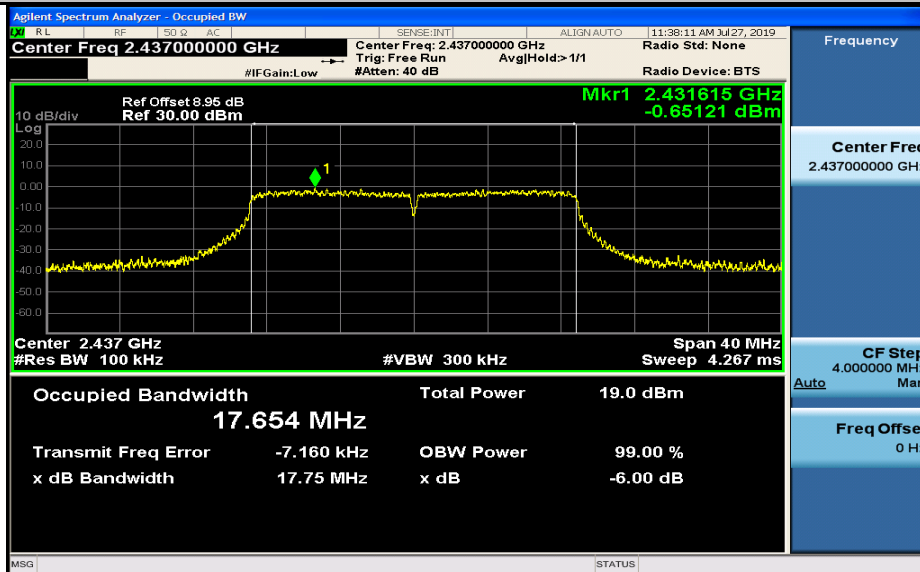
### 6dB Bandwidth\_11G\_2462\_Ant1



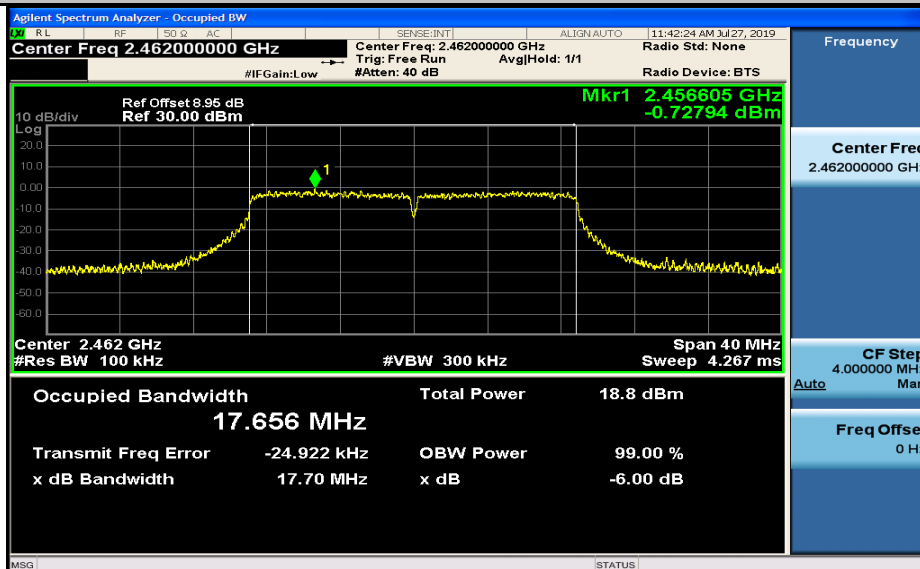
6dB Bandwidth\_11N20SISO\_2412\_Ant1



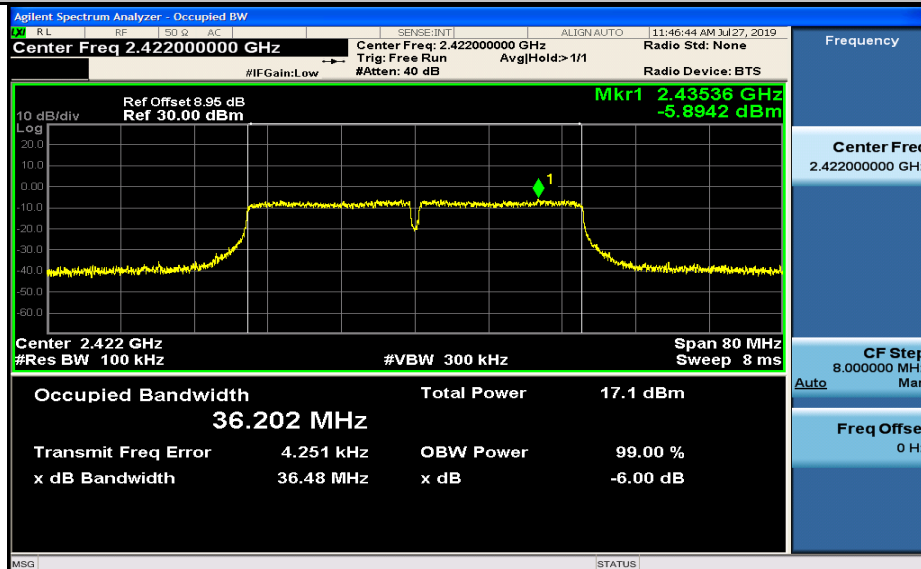
6dB Bandwidth\_11N20SISO\_2437\_Ant1



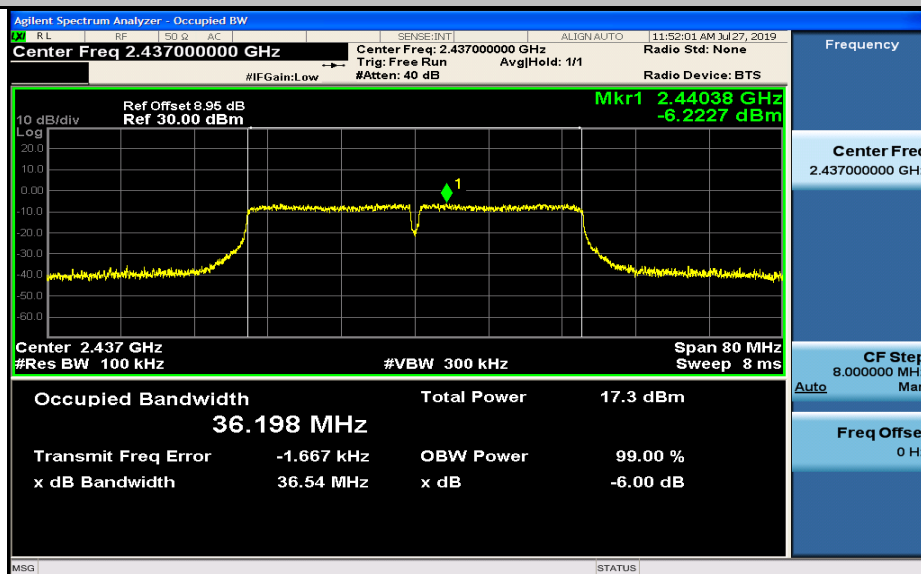
6dB Bandwidth\_11N20SISO\_2462\_Ant1



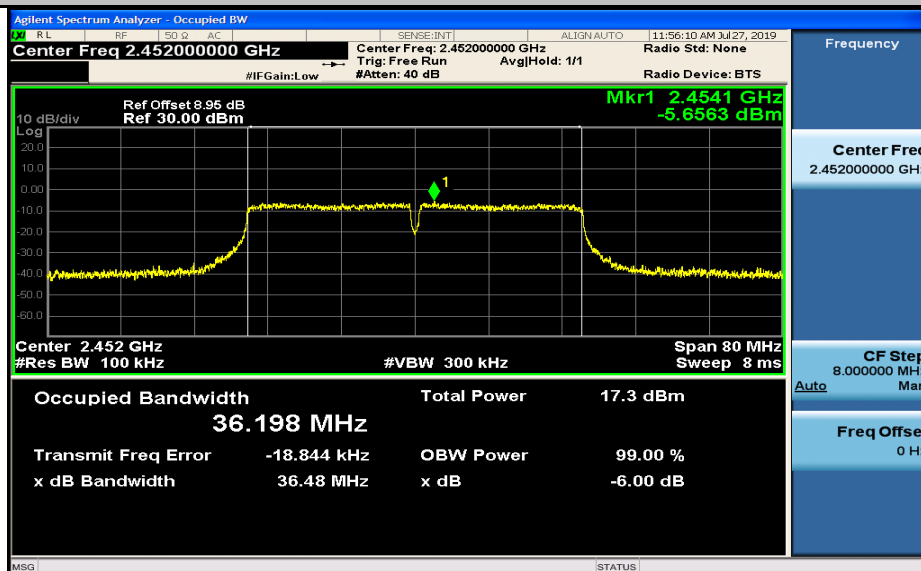
### 6dB Bandwidth\_11N40SISO\_2422\_Ant1



### 6dB Bandwidth\_11N40SISO\_2437\_Ant1



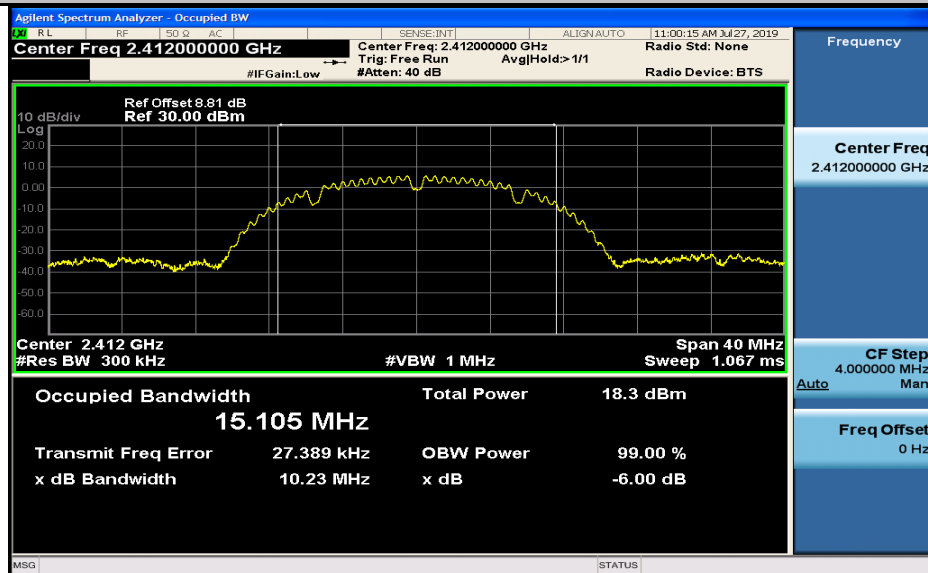
### 6dB Bandwidth\_11N40SISO\_2452\_Ant1



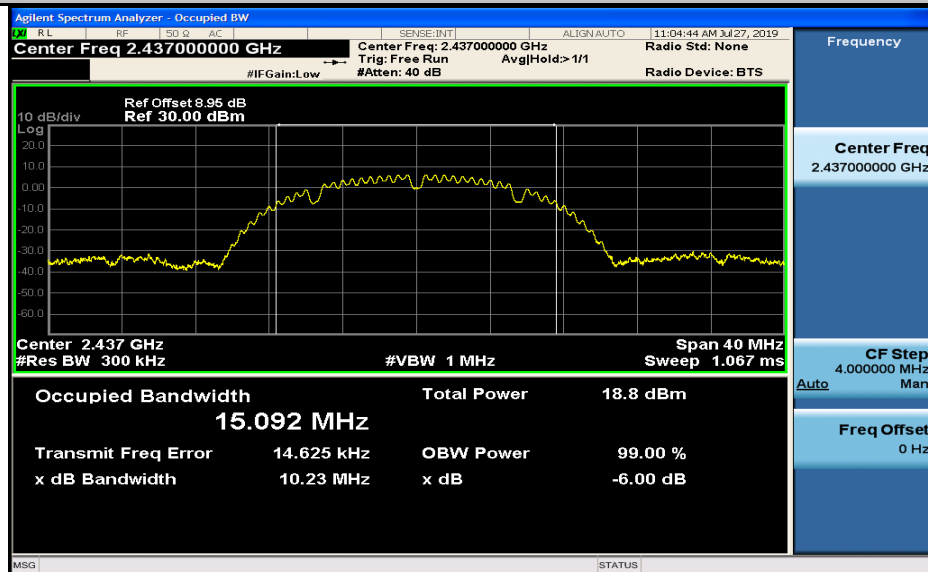
## 2.Occupied Bandwidth

| Test Mode | Test Channel | Ant  | OBW[MHz] | Limit[MHz] | Verdict |
|-----------|--------------|------|----------|------------|---------|
| 11B       | 2412         | Ant1 | 15.11    | ---        | PASS    |
| 11B       | 2437         | Ant1 | 15.09    | ---        | PASS    |
| 11B       | 2462         | Ant1 | 15.08    | ---        | PASS    |
| 11G       | 2412         | Ant1 | 16.82    | ---        | PASS    |
| 11G       | 2437         | Ant1 | 16.84    | ---        | PASS    |
| 11G       | 2462         | Ant1 | 16.84    | ---        | PASS    |
| 11N20SISO | 2412         | Ant1 | 17.89    | ---        | PASS    |
| 11N20SISO | 2437         | Ant1 | 17.89    | ---        | PASS    |
| 11N20SISO | 2462         | Ant1 | 17.86    | ---        | PASS    |
| 11N40SISO | 2422         | Ant1 | 37.08    | ---        | PASS    |
| 11N40SISO | 2437         | Ant1 | 37.10    | ---        | PASS    |
| 11N40SISO | 2452         | Ant1 | 37.06    | ---        | PASS    |

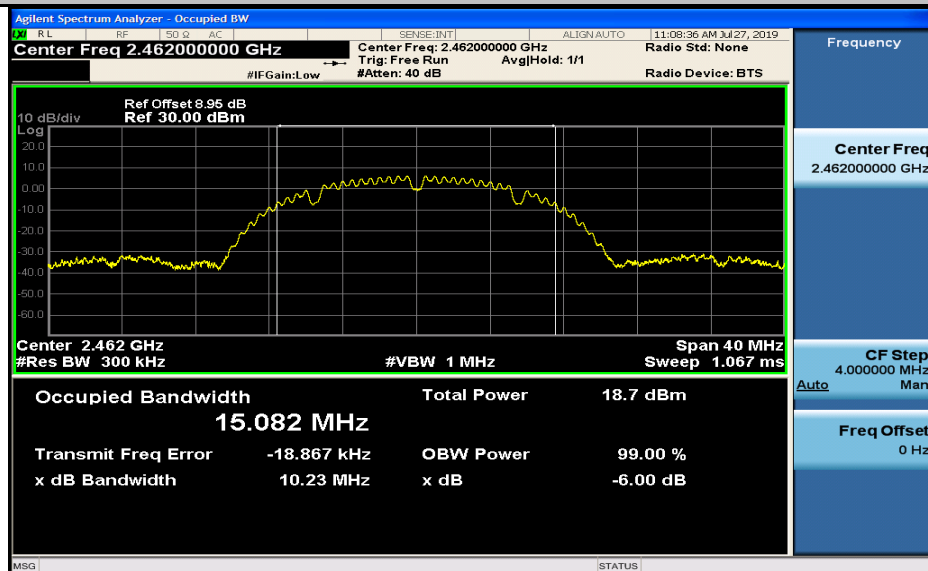
### Occupied Bandwidth\_11B\_2412



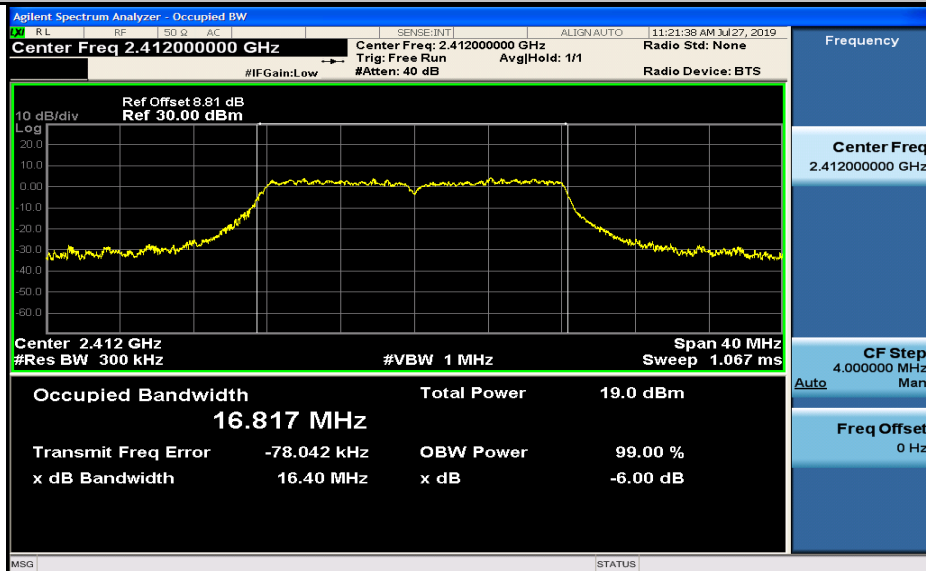
### Occupied Bandwidth\_11B\_2437



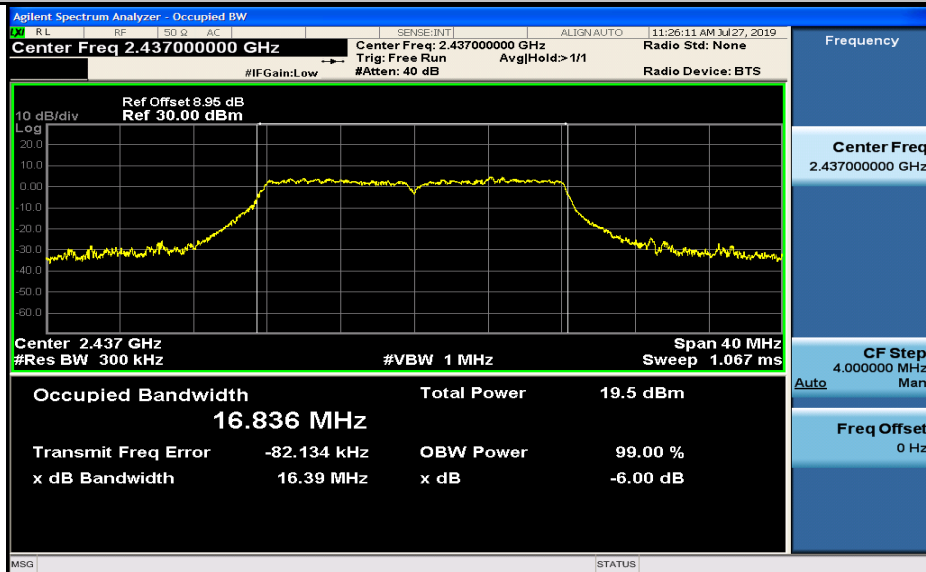
### Occupied Bandwidth\_11B\_2462



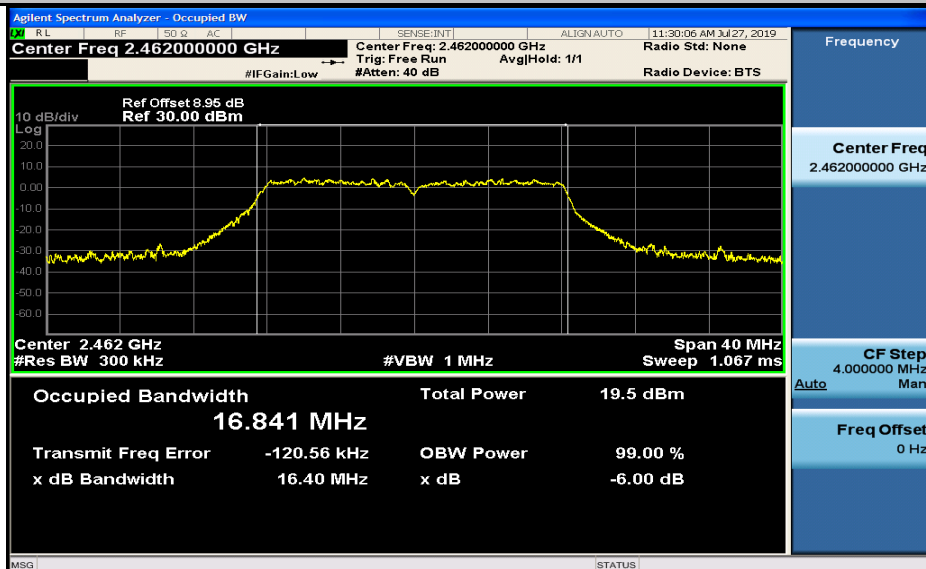
### Occupied Bandwidth\_11G\_2412



### Occupied Bandwidth\_11G\_2437

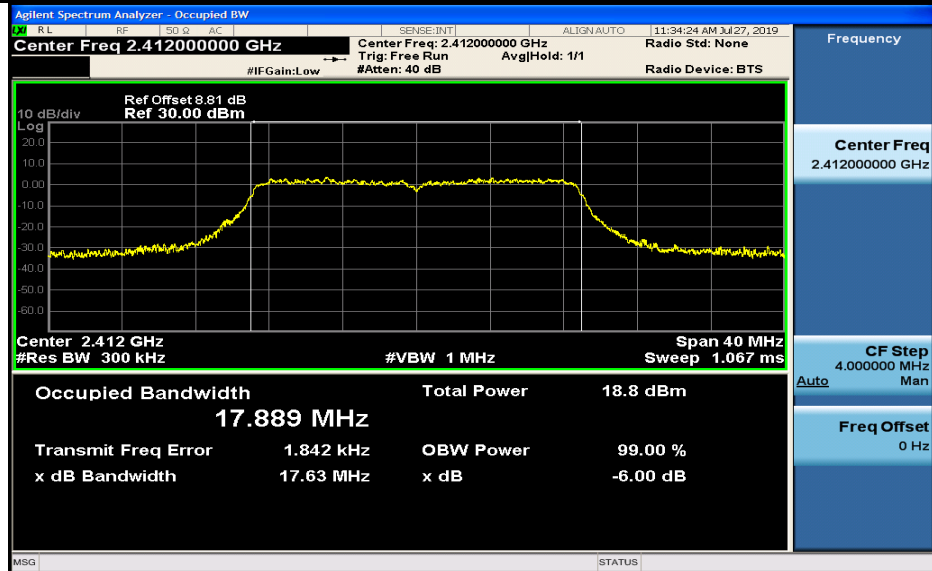


### Occupied Bandwidth\_11G\_2462

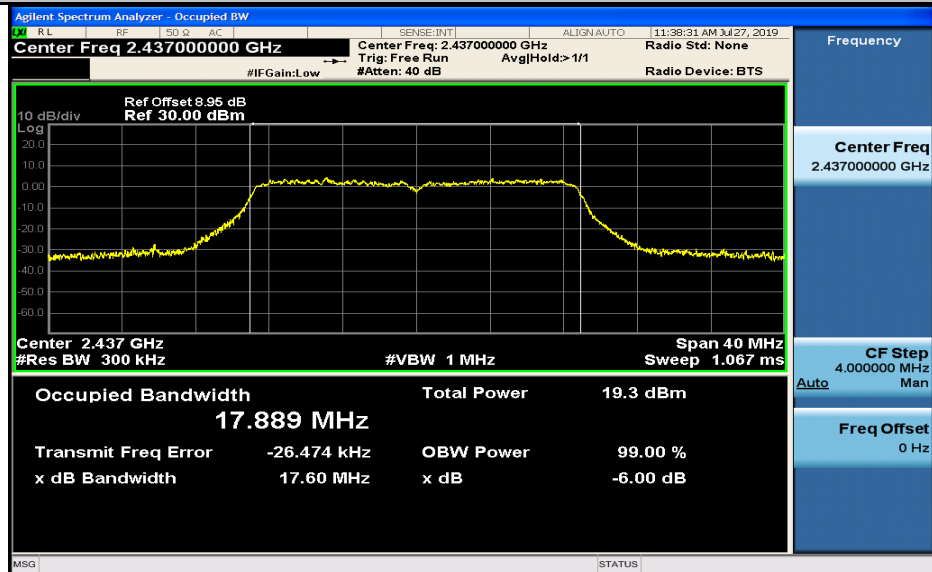




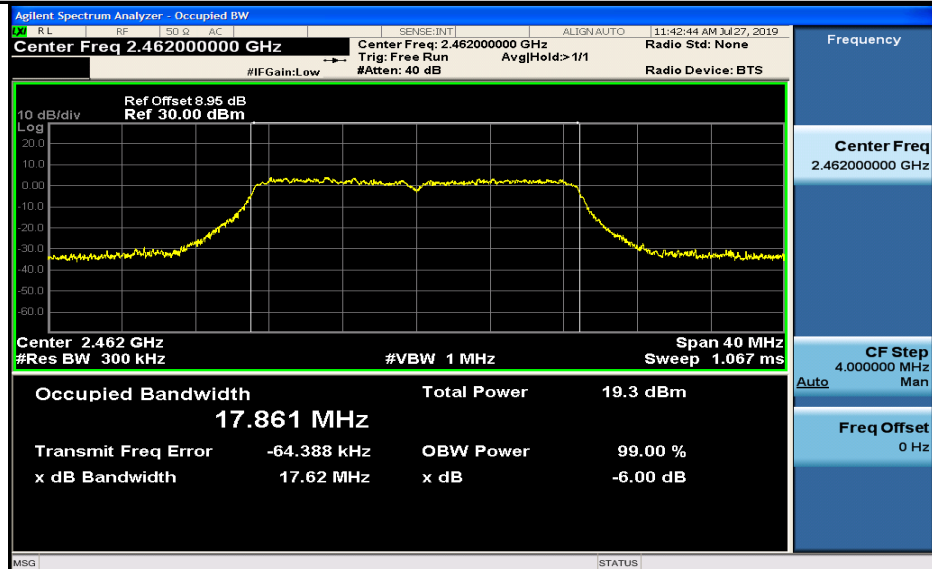
### Occupied Bandwidth\_11N20SISO\_2412



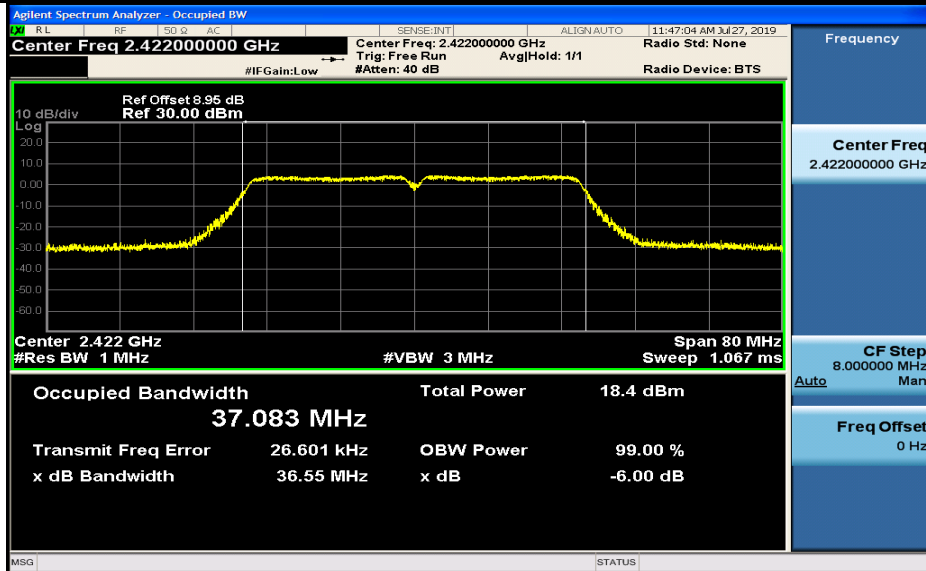
### Occupied Bandwidth\_11N20SISO\_2437



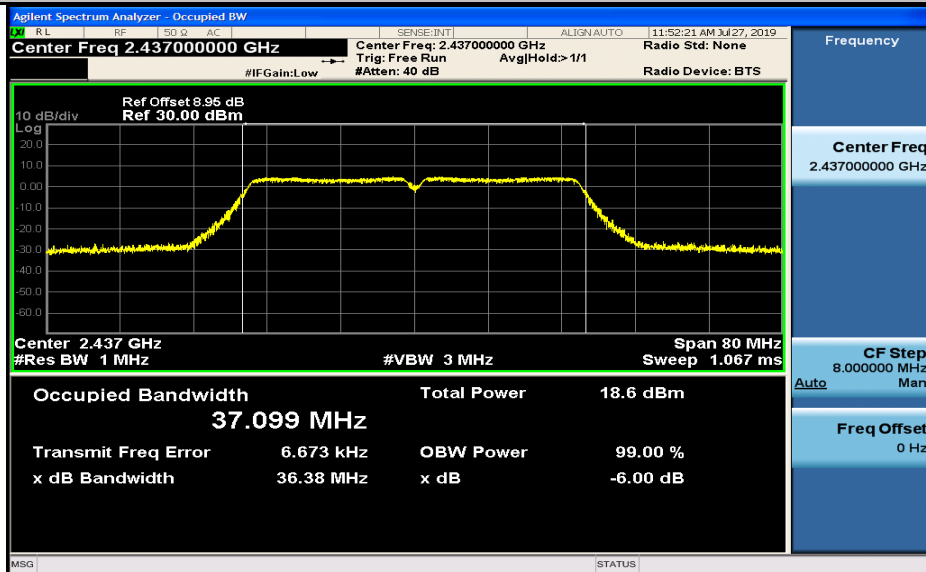
### Occupied Bandwidth\_11N20SISO\_2462



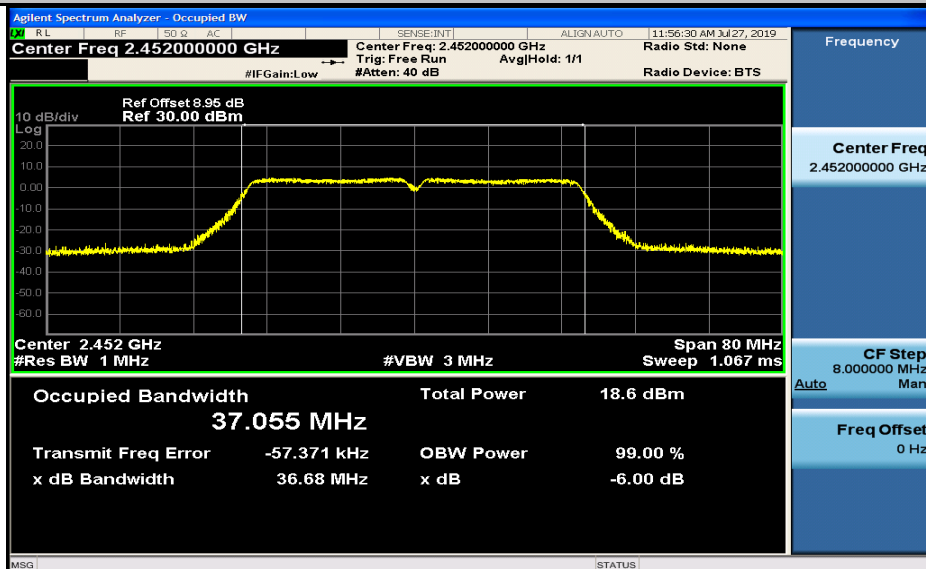
### Occupied Bandwidth\_11N40SISO\_2422



### Occupied Bandwidth\_11N40SISO\_2437



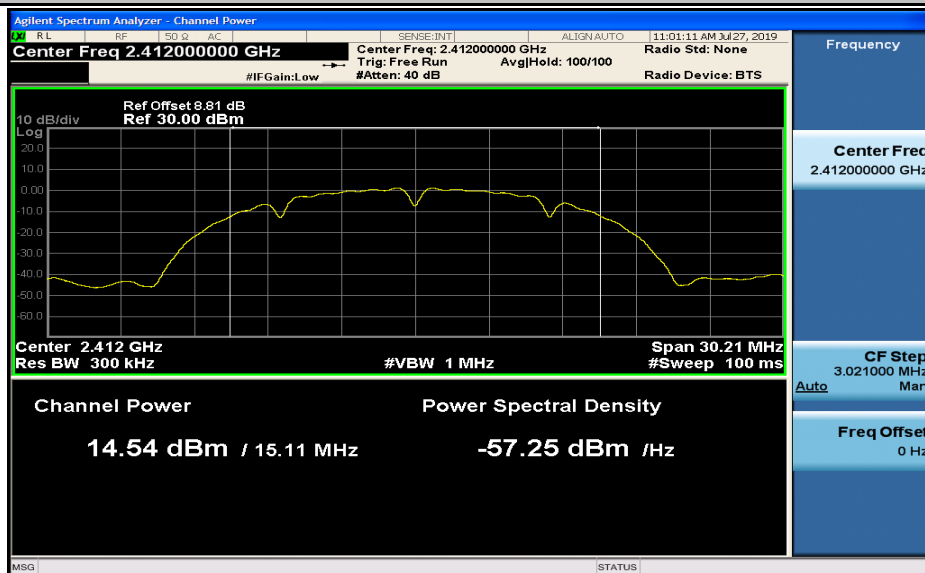
### Occupied Bandwidth\_11N40SISO\_2452



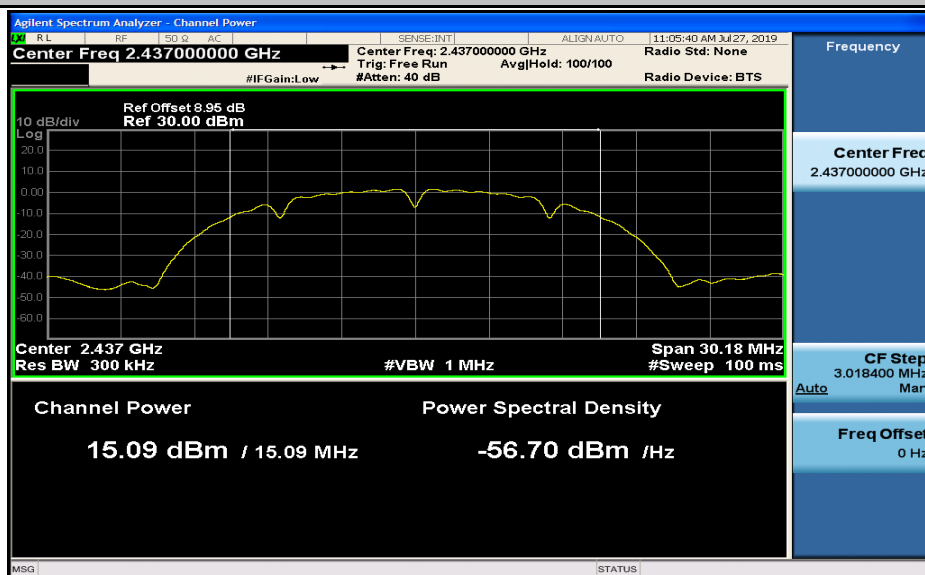
### 3.Maximum conducted (average) output power

| Test Mode | Test Channel | Ant  | Level [dBm] | 10log(1/x) Factor[dB] | Power [dBm] | Limit [dBm] | Verdict |
|-----------|--------------|------|-------------|-----------------------|-------------|-------------|---------|
| 11B       | 2412         | Ant1 | 14.54       | 0.00                  | 14.54       | 30          | PASS    |
| 11B       | 2437         | Ant1 | 15.09       | 0.00                  | 15.09       | 30          | PASS    |
| 11B       | 2462         | Ant1 | 14.96       | 0.00                  | 14.96       | 30          | PASS    |
| 11G       | 2412         | Ant1 | 12.64       | 0.00                  | 12.64       | 30          | PASS    |
| 11G       | 2437         | Ant1 | 13.22       | 0.00                  | 13.22       | 30          | PASS    |
| 11G       | 2462         | Ant1 | 13.11       | 0.00                  | 13.11       | 30          | PASS    |
| 11N20SISO | 2412         | Ant1 | 12.52       | 0.00                  | 12.52       | 30          | PASS    |
| 11N20SISO | 2437         | Ant1 | 13.09       | 0.00                  | 13.09       | 30          | PASS    |
| 11N20SISO | 2462         | Ant1 | 12.99       | 0.00                  | 12.99       | 30          | PASS    |
| 11N40SISO | 2422         | Ant1 | 11.19       | 0.00                  | 11.19       | 30          | PASS    |
| 11N40SISO | 2437         | Ant1 | 11.38       | 0.00                  | 11.38       | 30          | PASS    |
| 11N40SISO | 2452         | Ant1 | 11.37       | 0.00                  | 11.37       | 30          | PASS    |

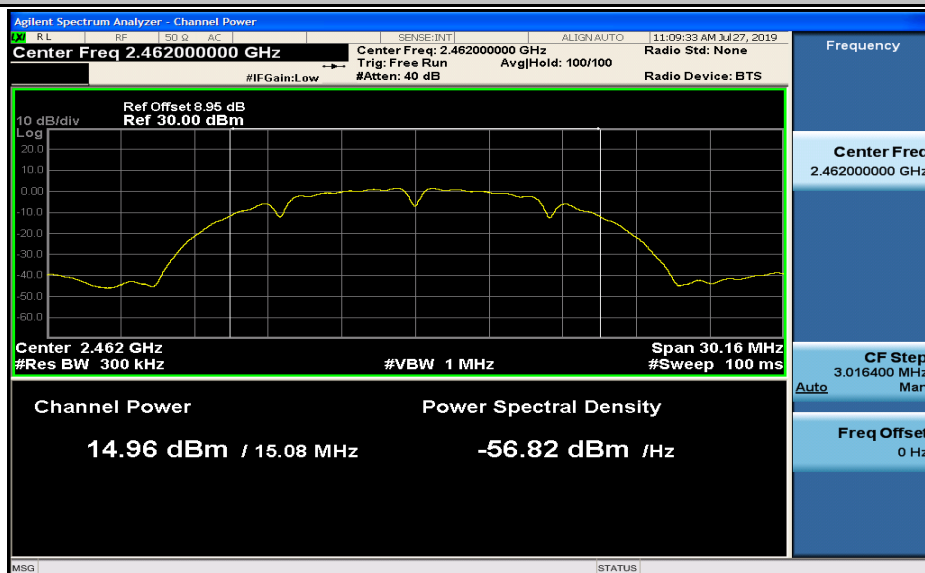
## Maximum conducted (average) output power\_11B\_2412\_Ant1



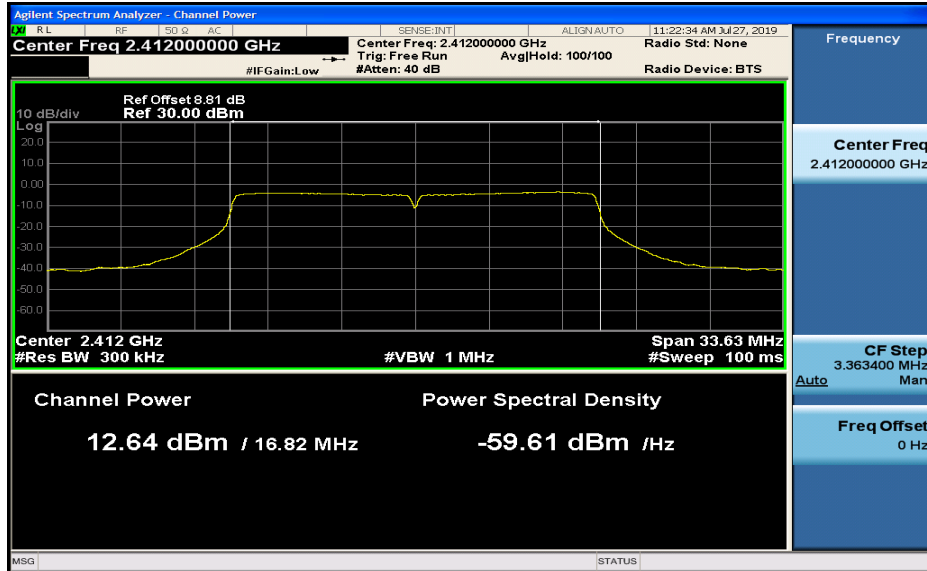
## Maximum conducted (average) output power\_11B\_2437\_Ant1



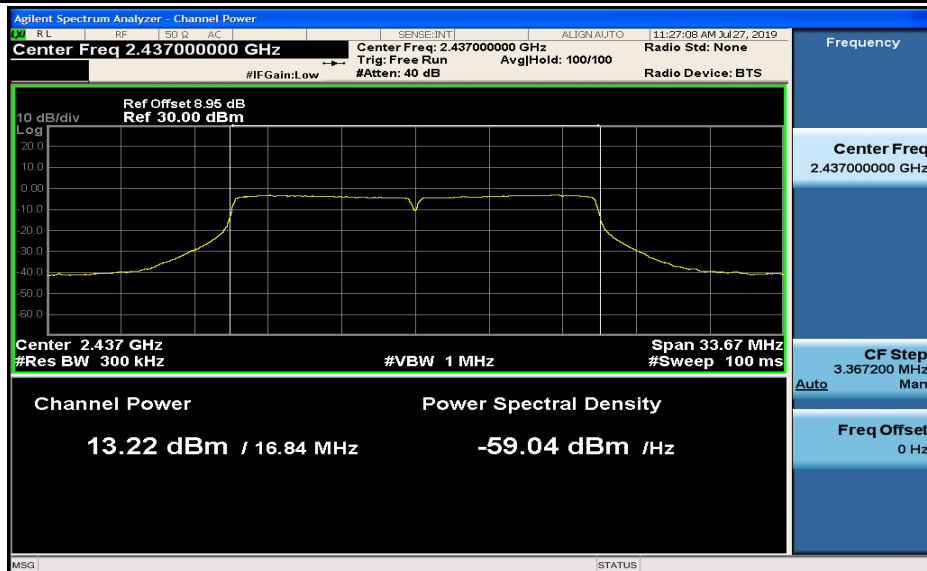
## Maximum conducted (average) output power\_11B\_2462\_Ant1



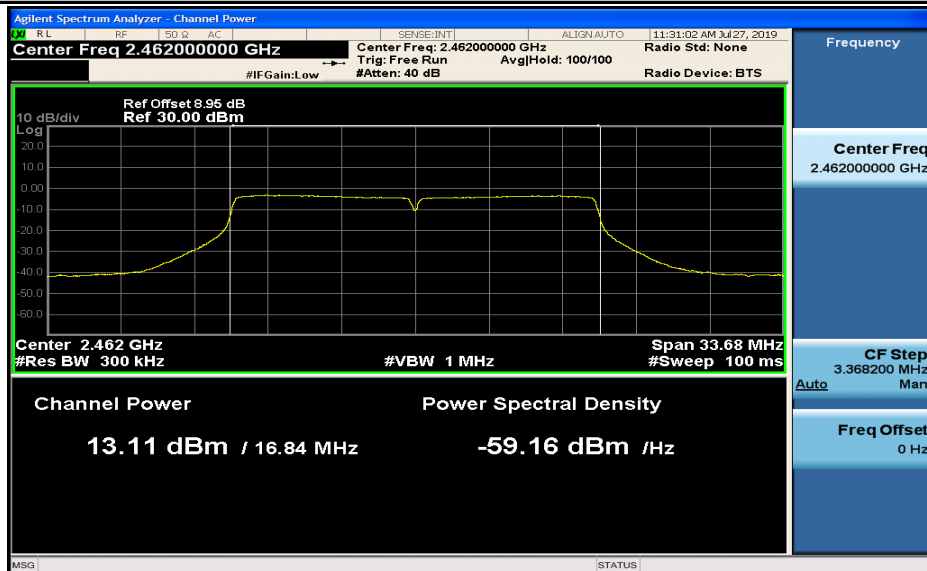
Maximum conducted (average) output power\_11G\_2412\_Ant1



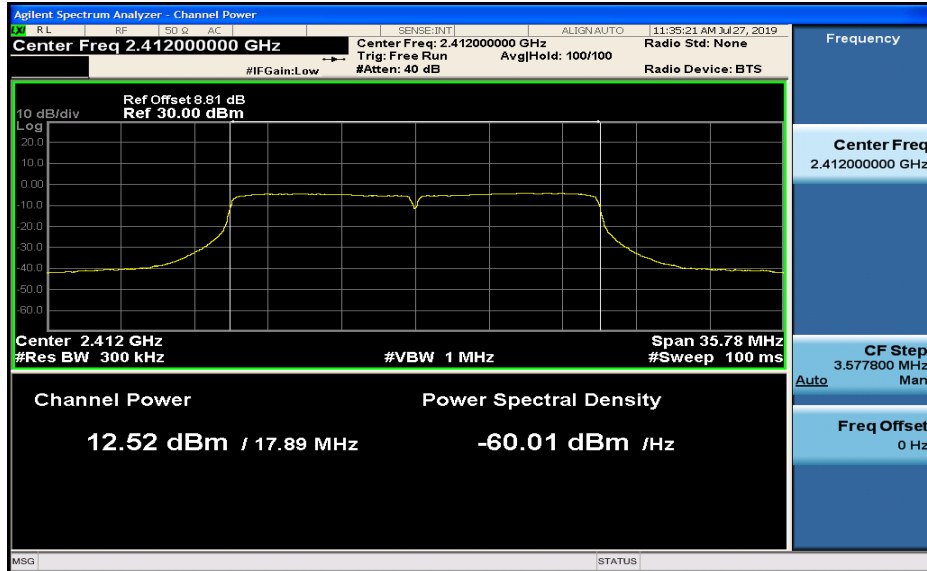
Maximum conducted (average) output power\_11G\_2437\_Ant1



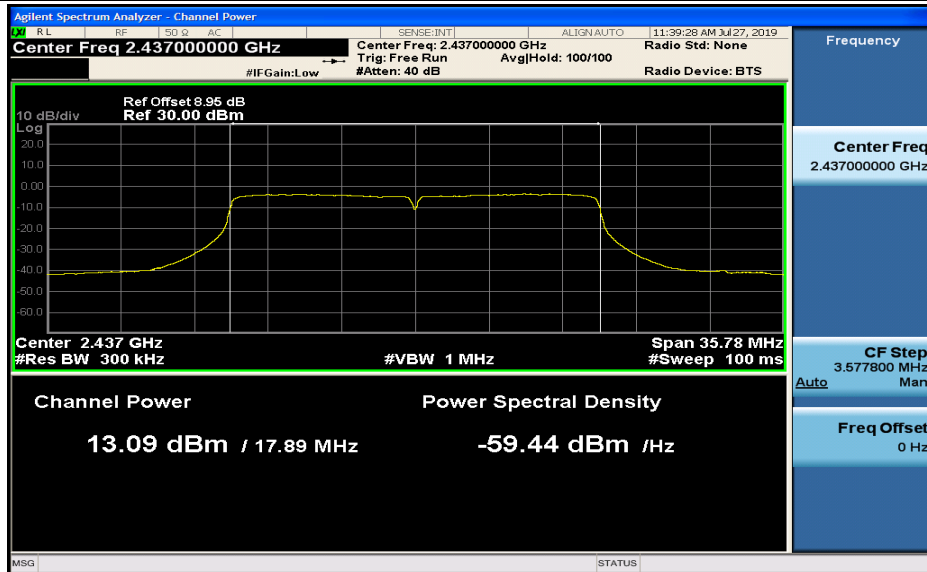
Maximum conducted (average) output power\_11G\_2462\_Ant1



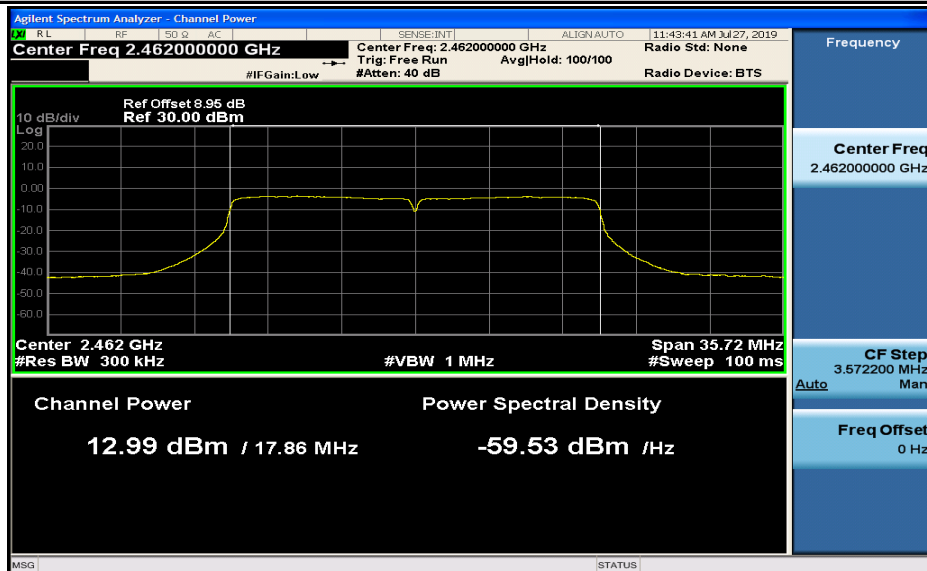
Maximum conducted (average) output power\_11N20SISO\_2412\_Ant1



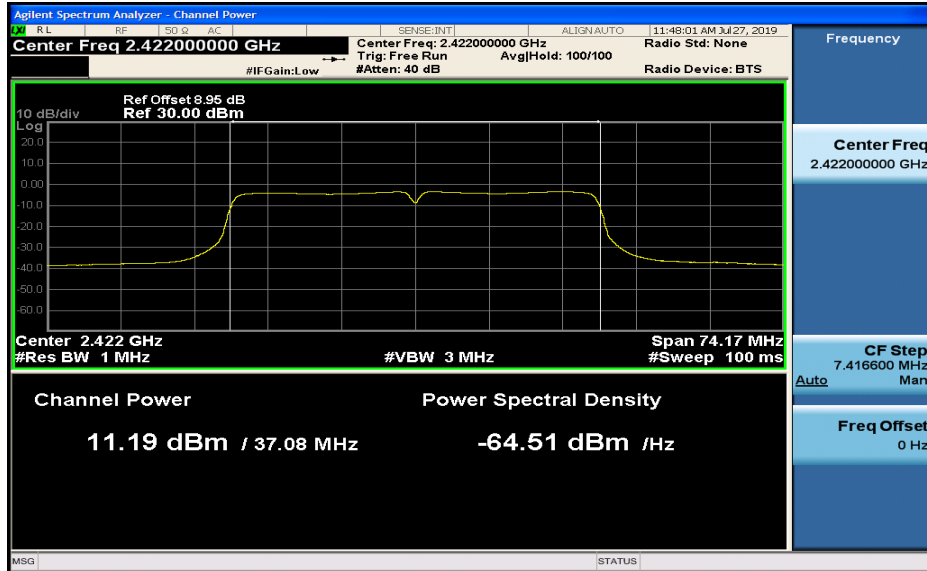
Maximum conducted (average) output power\_11N20SISO\_2437\_Ant1



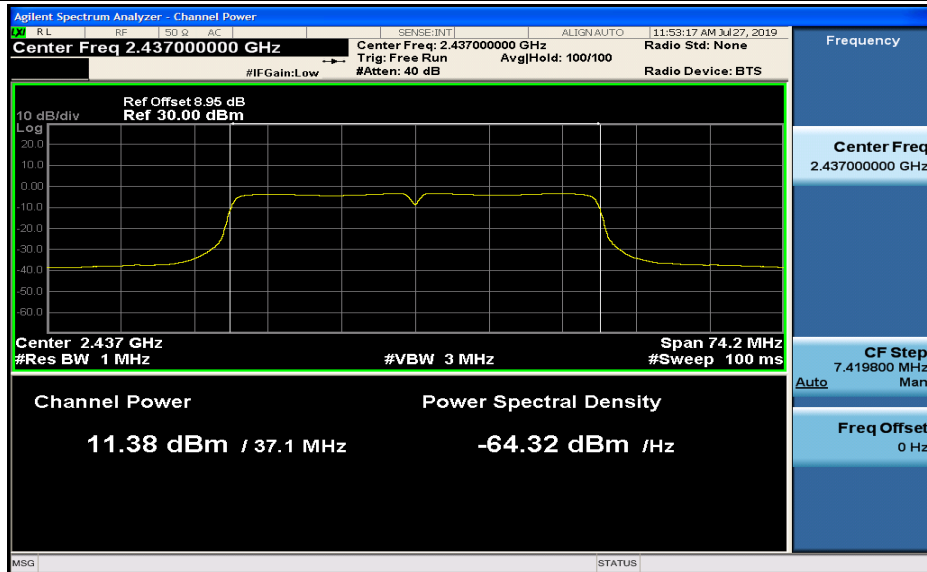
Maximum conducted (average) output power\_11N20SISO\_2462\_Ant1



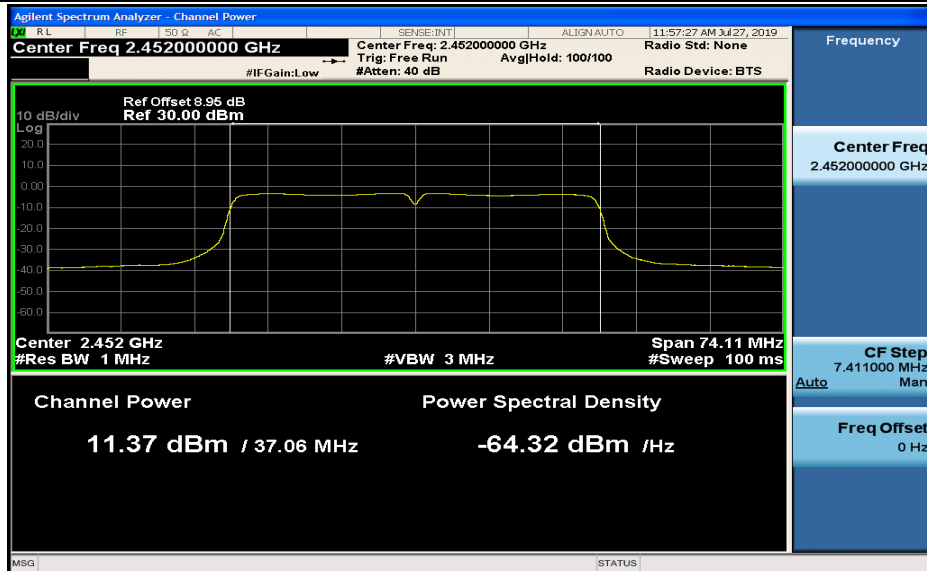
Maximum conducted (average) output power\_11N40SISO\_2422\_Ant1



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



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



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

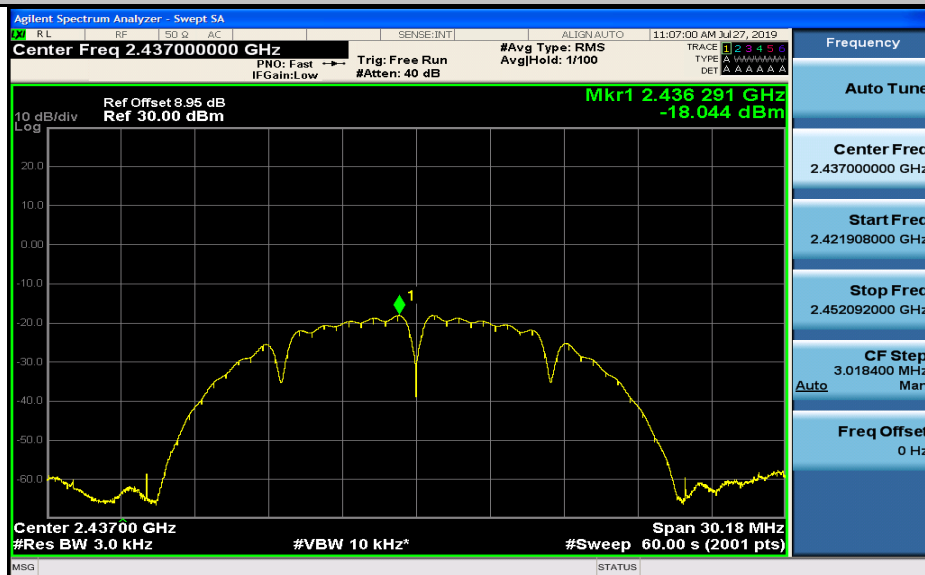
| Test Mode | Test Channel | Ant  | Level [dBm/3kHz] | 10log(1/x) Factor[dB] | PSD[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|--------------|------|------------------|-----------------------|---------------|-----------------|---------|
| 11B       | 2412         | Ant1 | -18.61           | 0.00                  | -18.61        | 8.00            | PASS    |
| 11B       | 2437         | Ant1 | -18.04           | 0.00                  | -18.04        | 8.00            | PASS    |
| 11B       | 2462         | Ant1 | -18.12           | 0.00                  | -18.12        | 8.00            | PASS    |
| 11G       | 2412         | Ant1 | -21.58           | 0.00                  | -21.58        | 8.00            | PASS    |
| 11G       | 2437         | Ant1 | -20.76           | 0.00                  | -20.76        | 8.00            | PASS    |
| 11G       | 2462         | Ant1 | -21.33           | 0.00                  | -21.33        | 8.00            | PASS    |
| 11N20SISO | 2412         | Ant1 | -22.14           | 0.00                  | -22.14        | 8.00            | PASS    |
| 11N20SISO | 2437         | Ant1 | -21.69           | 0.00                  | -21.69        | 8.00            | PASS    |
| 11N20SISO | 2462         | Ant1 | -21.70           | 0.00                  | -21.70        | 8.00            | PASS    |
| 11N40SISO | 2422         | Ant1 | -27.12           | 0.00                  | -27.12        | 8.00            | PASS    |
| 11N40SISO | 2437         | Ant1 | -26.92           | 0.00                  | -26.92        | 8.00            | PASS    |
| 11N40SISO | 2452         | Ant1 | -26.78           | 0.00                  | -26.78        | 8.00            | PASS    |



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



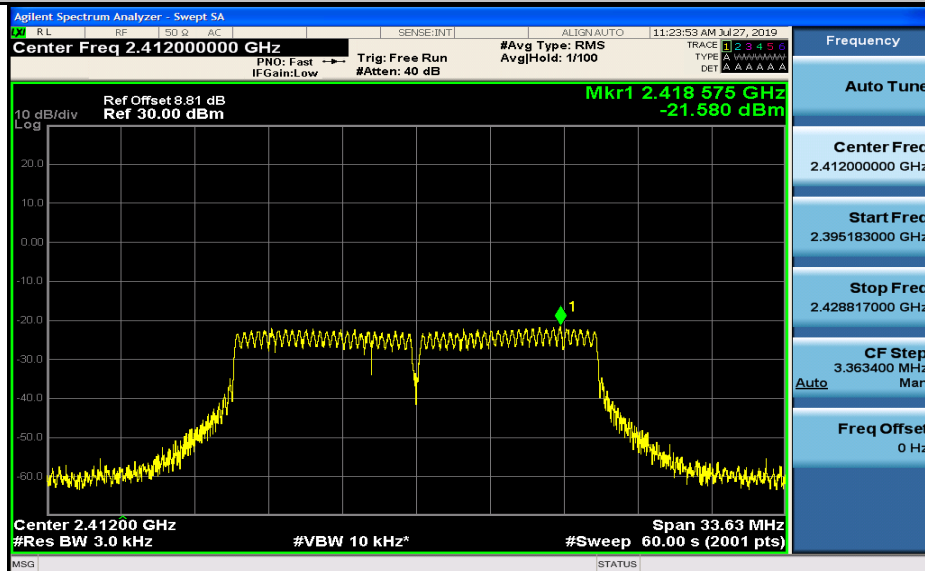
Maximum(average) power spectral density\_11B\_2437\_Ant1



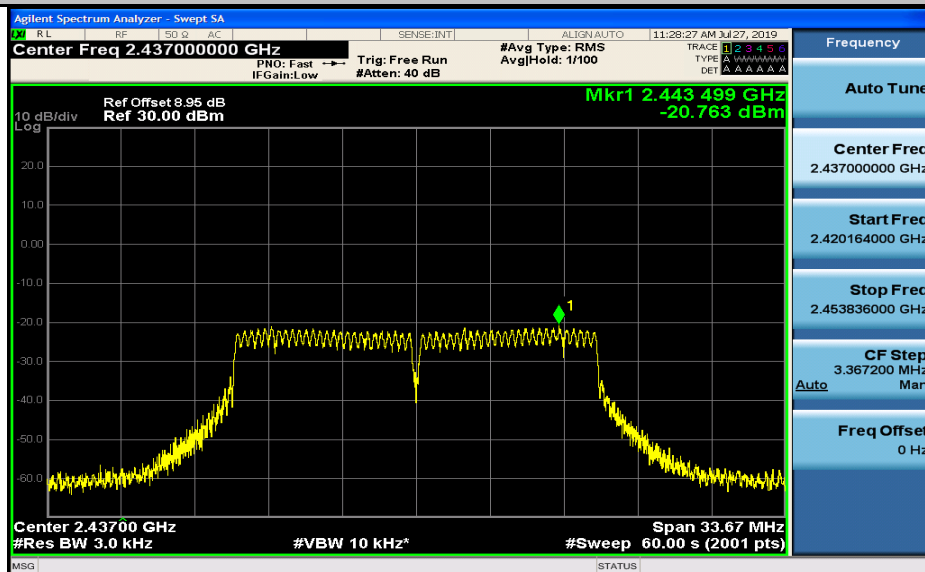
Maximum(average) power spectral density\_11B\_2462\_Ant1



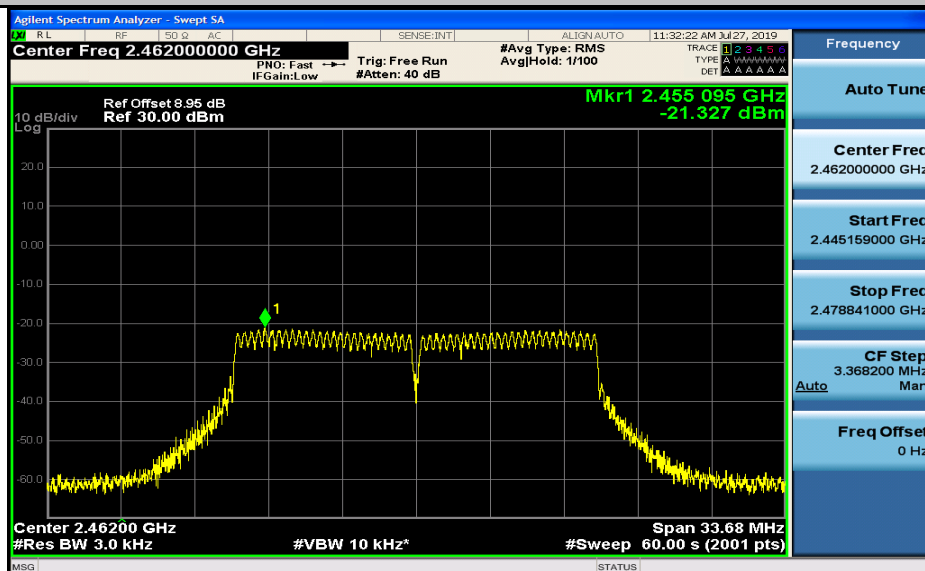
Maximum(average) power spectral density\_11G\_2412\_Ant1



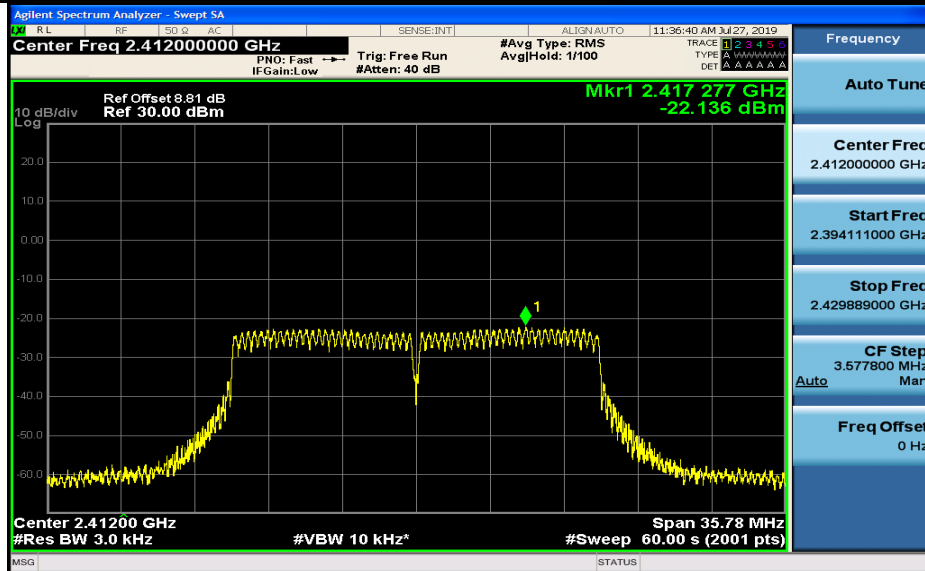
Maximum(average) power spectral density\_11G\_2437\_Ant1



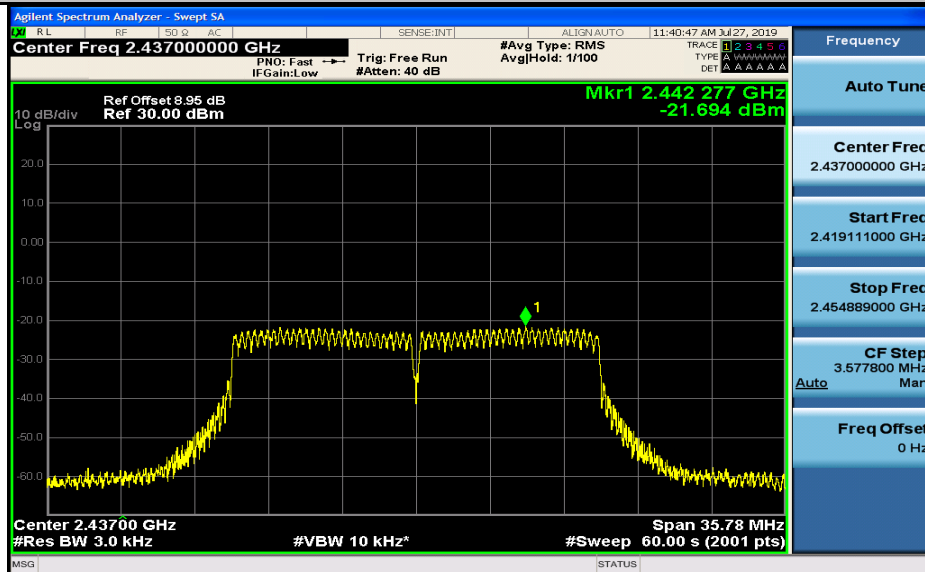
Maximum(average) power spectral density\_11G\_2462\_Ant1



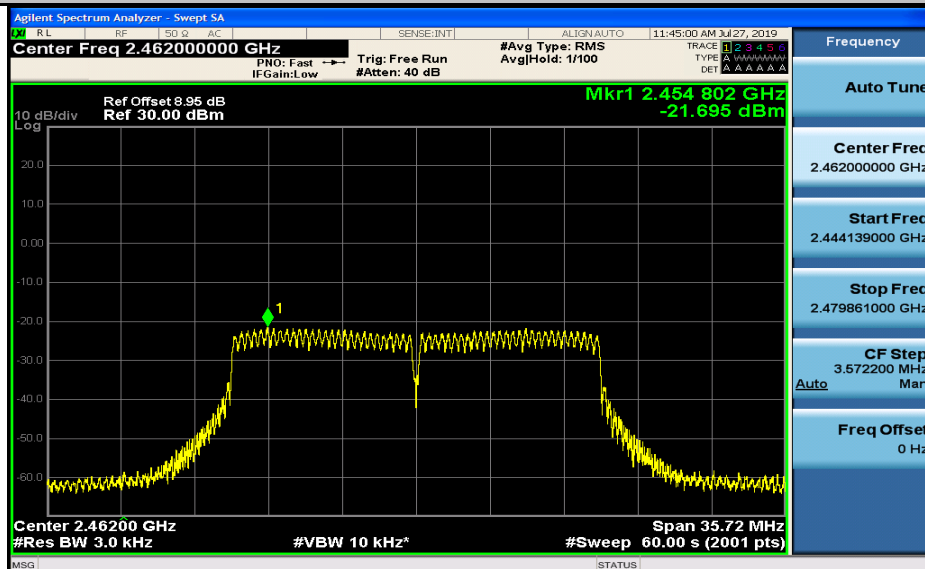
Maximum(average) power spectral density\_11N20SISO\_2412\_Ant1



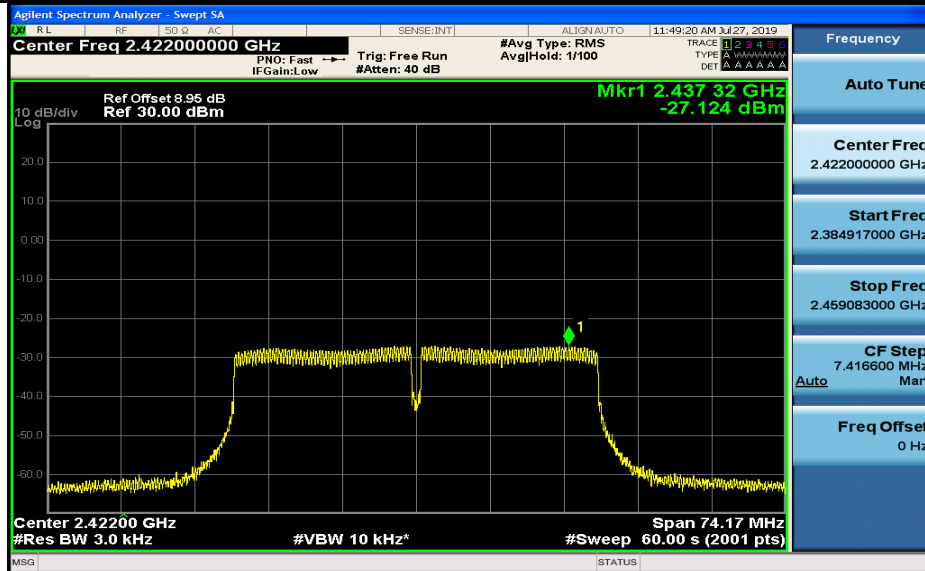
Maximum(average) power spectral density\_11N20SISO\_2437\_Ant1



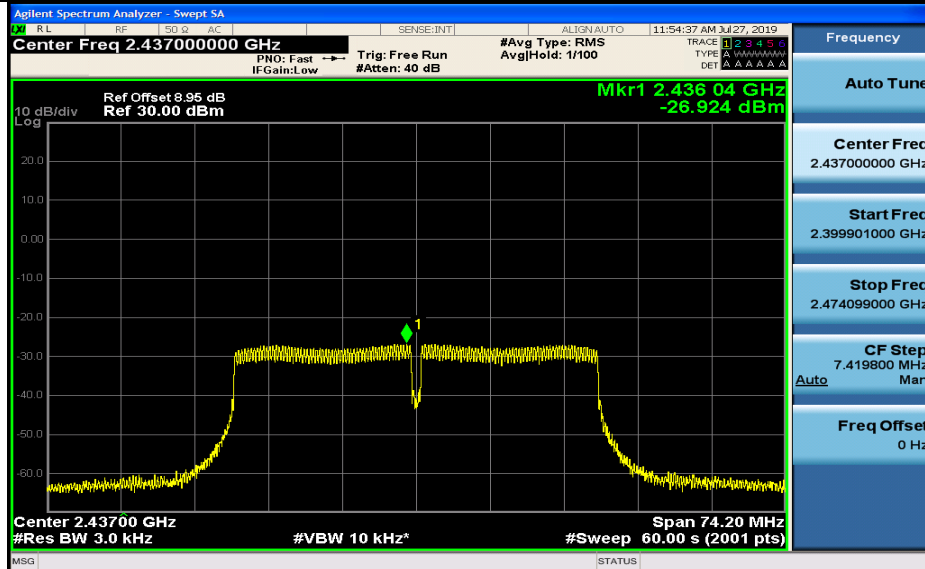
Maximum(average) power spectral density\_11N20SISO\_2462\_Ant1



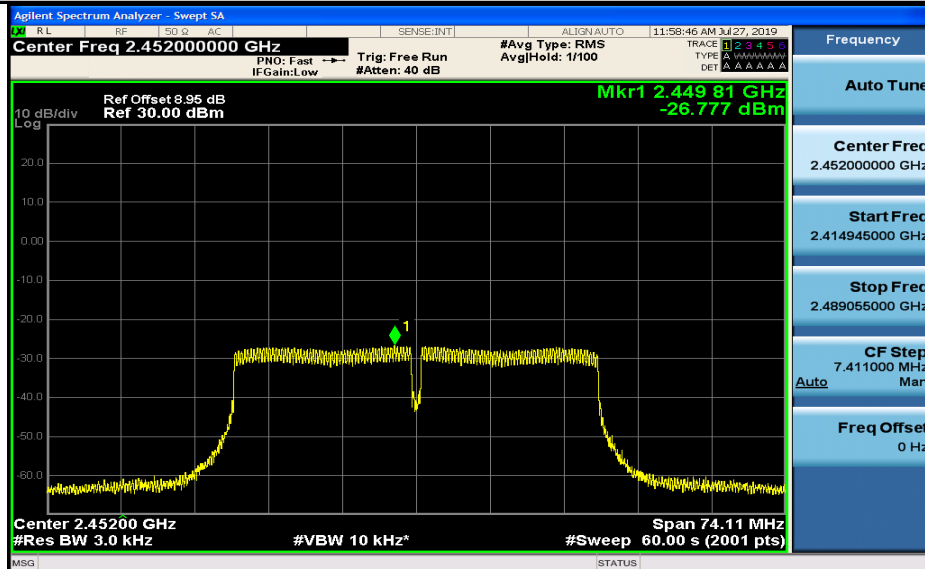
Maximum(average) power spectral density\_11N40SISO\_2422\_Ant1



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



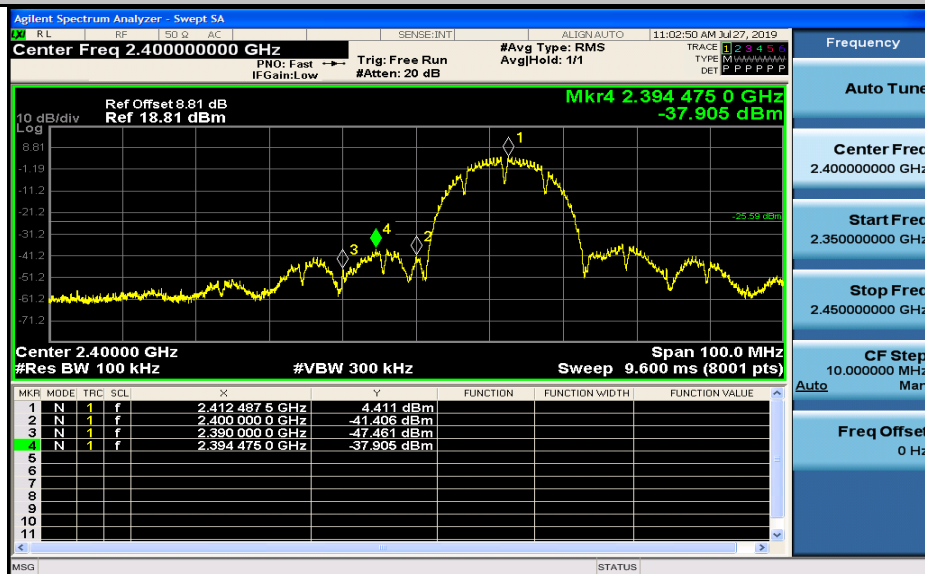
Maximum(average) power spectral density\_11N40SISO\_2452\_Ant1



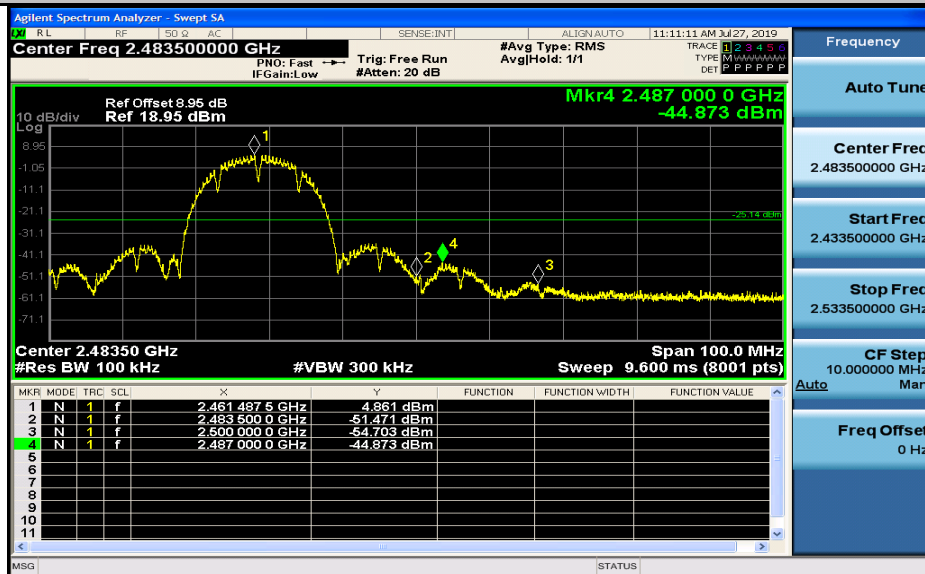
### 5.Band-edge for RF Conducted Emissions

| Test Mode | Test Channel | Ant  | Carrier Power[dBm] | Max. Spurious Level [dBm] | Limit [dBm] | Verdict |
|-----------|--------------|------|--------------------|---------------------------|-------------|---------|
| 11B       | 2412         | Ant1 | 4.41               | -37.91                    | -25.59      | PASS    |
| 11B       | 2462         | Ant1 | 4.86               | -44.87                    | -25.14      | PASS    |
| 11G       | 2412         | Ant1 | -1.45              | -33.34                    | -31.45      | PASS    |
| 11G       | 2462         | Ant1 | -0.61              | -41.30                    | -30.61      | PASS    |
| 11N20SISO | 2412         | Ant1 | -1.13              | -33.07                    | -31.13      | PASS    |
| 11N20SISO | 2462         | Ant1 | -0.81              | -39.58                    | -30.81      | PASS    |
| 11N40SISO | 2422         | Ant1 | -5.75              | -36.57                    | -35.75      | PASS    |
| 11N40SISO | 2452         | Ant1 | -5.99              | -38.66                    | -35.99      | PASS    |

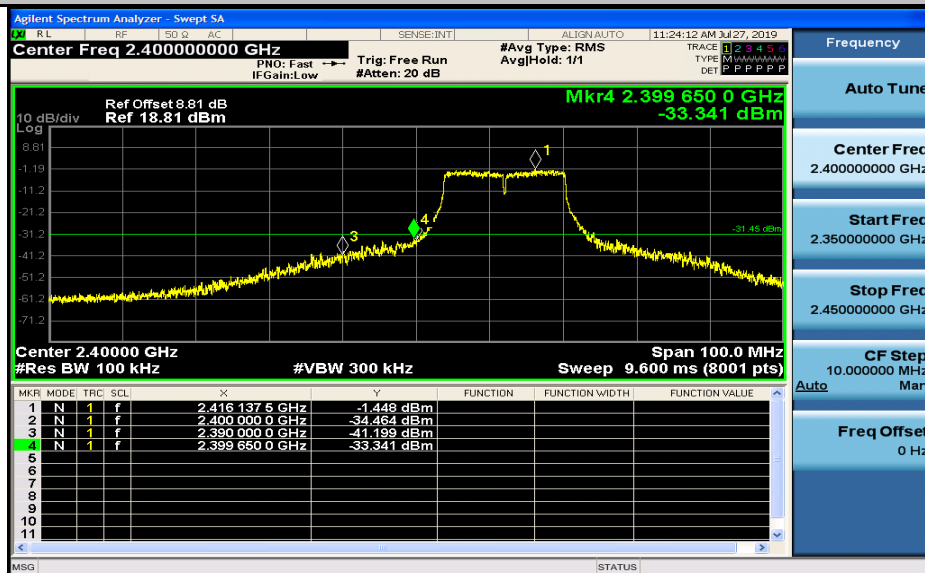
## Band-edge for RF Conducted Emissions\_11B\_2412\_Ant1



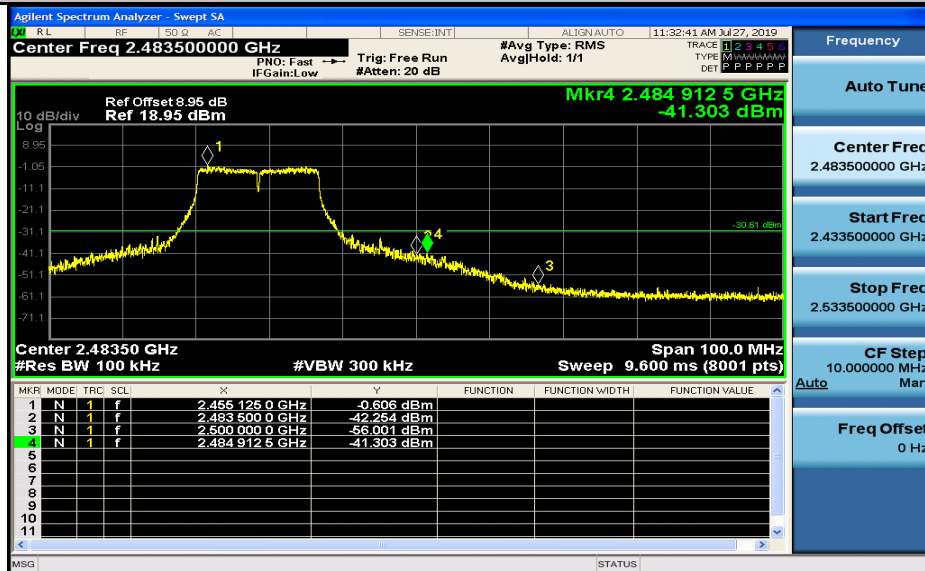
## Band-edge for RF Conducted Emissions\_11B\_2462\_Ant1



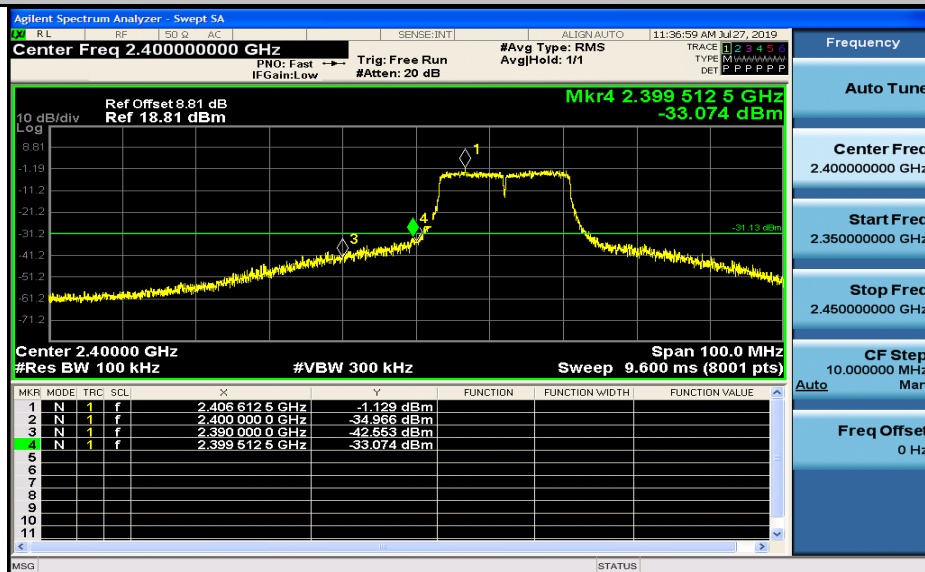
## Band-edge for RF Conducted Emissions\_11G\_2412\_Ant1



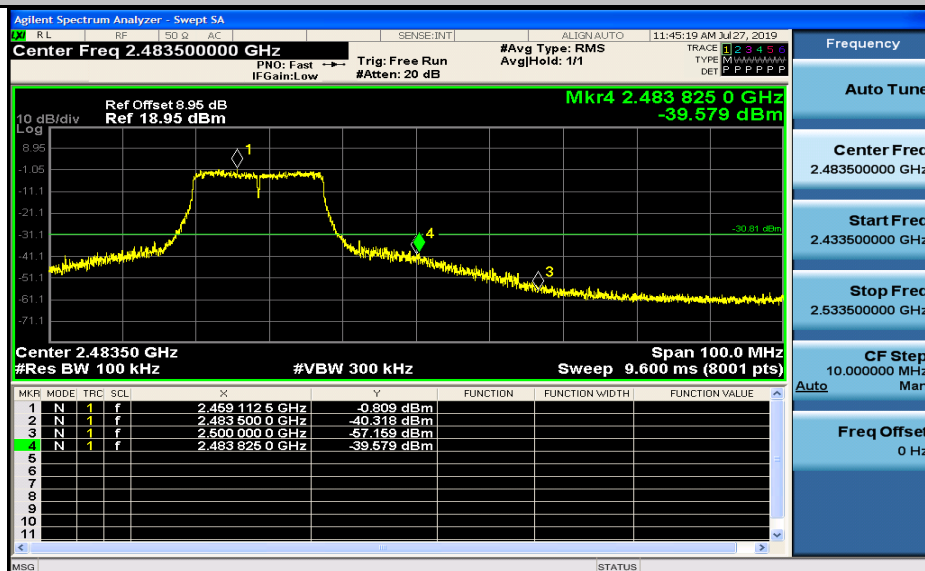
## Band-edge for RF Conducted Emissions\_11G\_2462\_Ant1



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

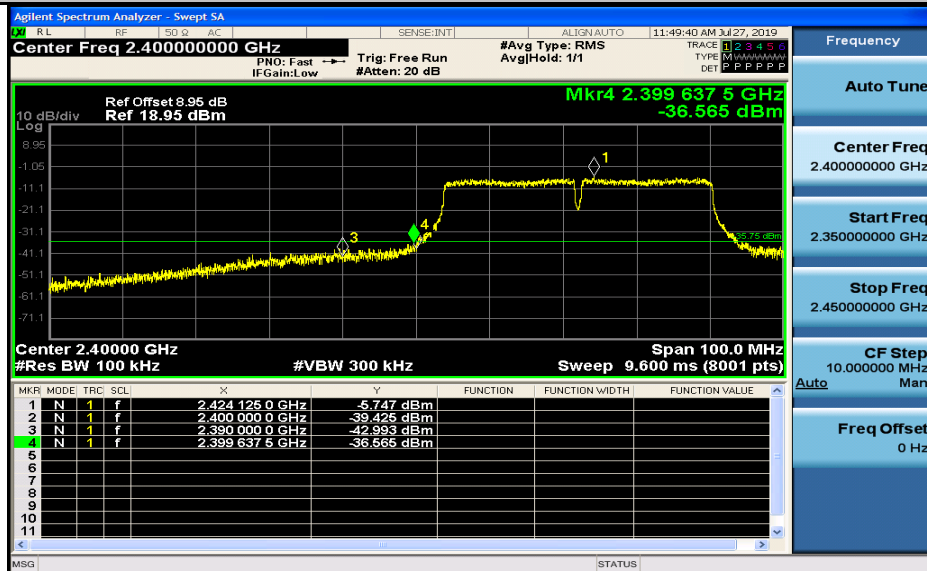


## Band-edge for RF Conducted Emissions\_11N20SISO\_2462\_Ant1

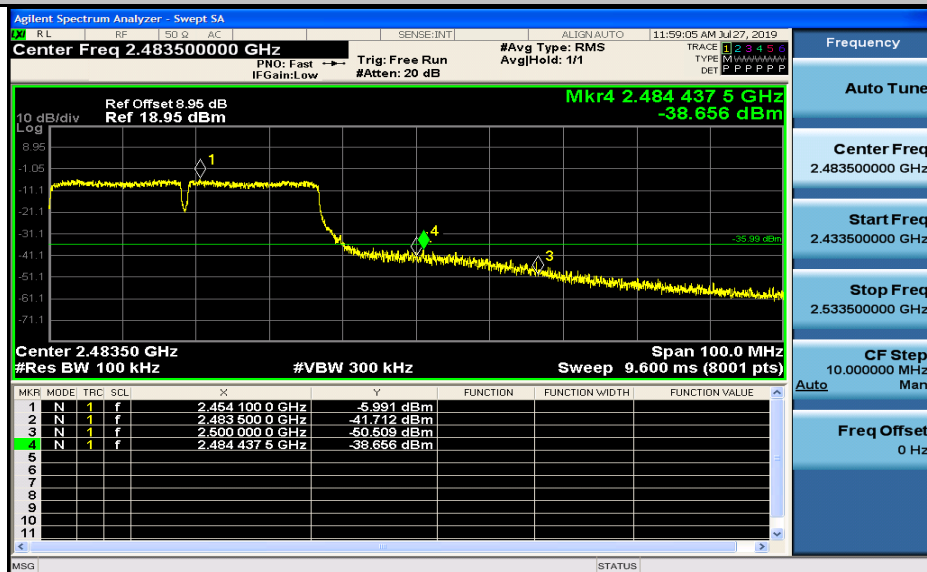




### Band-edge for RF Conducted Emissions\_11N40SISO\_2422\_Ant1



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





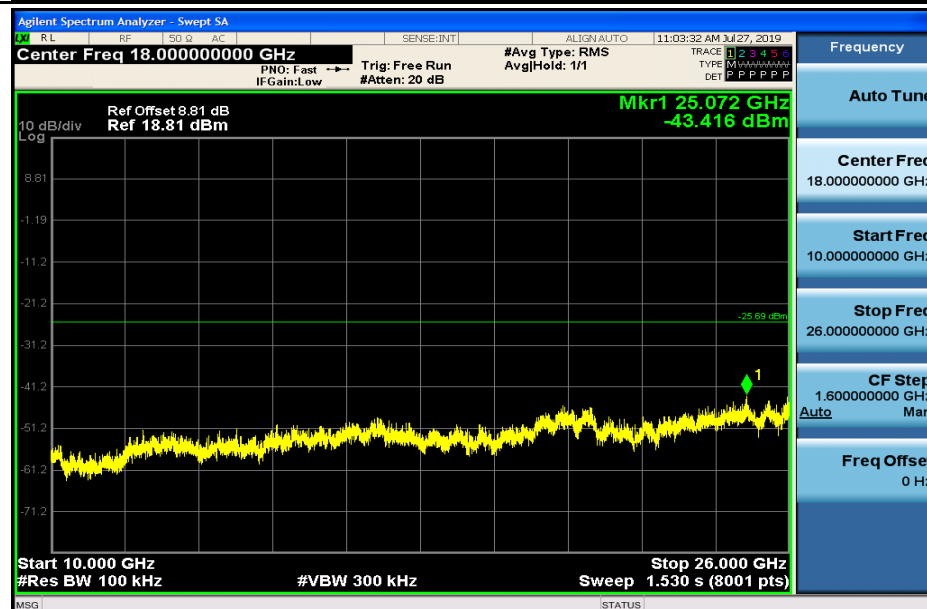
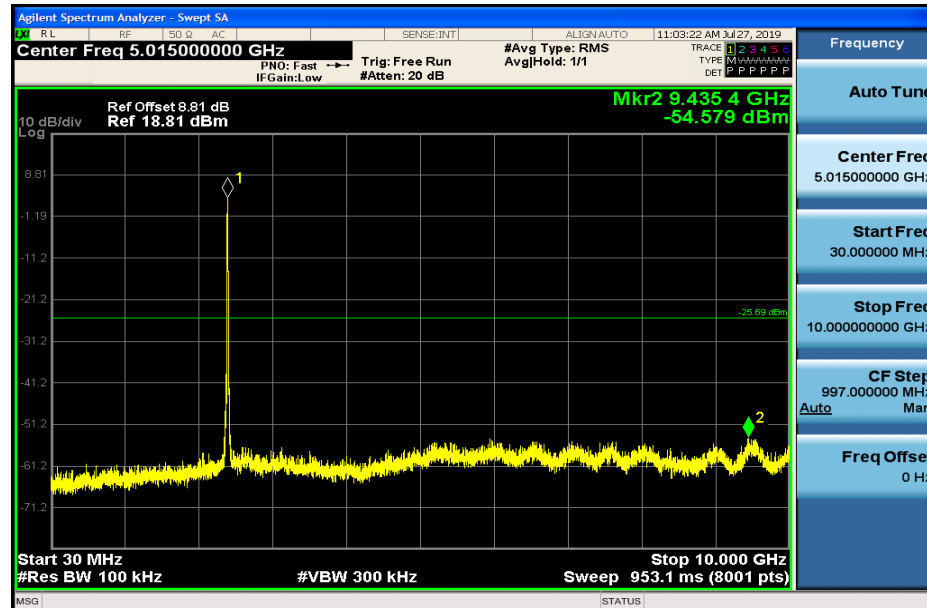
## 6.RF Conducted Spurious Emissions

| 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       | 4.31      | -54.58           | <-<br>25.69  | PASS    |
| 11B       | 2412         | Ant1 | 10000          | 26000         | 100       | 300       | 4.31      | -43.416          | <-<br>25.69  | PASS    |
| 11B       | 2437         | Ant1 | 30             | 10000         | 100       | 300       | 4.89      | -53.75           | <-<br>25.11  | PASS    |
| 11B       | 2437         | Ant1 | 10000          | 26000         | 100       | 300       | 4.887     | -44.301          | <-<br>25.113 | PASS    |
| 11B       | 2462         | Ant1 | 30             | 10000         | 100       | 300       | 4.79      | -53.44           | <-<br>25.22  | PASS    |
| 11B       | 2462         | Ant1 | 10000          | 26000         | 100       | 300       | 4.785     | -43.763          | <-<br>25.215 | PASS    |
| 11G       | 2412         | Ant1 | 30             | 10000         | 100       | 300       | -1.51     | -53.22           | <-<br>31.51  | PASS    |
| 11G       | 2412         | Ant1 | 10000          | 26000         | 100       | 300       | -1.505    | -43.987          | <-<br>31.505 | PASS    |
| 11G       | 2437         | Ant1 | 30             | 10000         | 100       | 300       | -0.69     | -53.14           | <-<br>30.69  | PASS    |
| 11G       | 2437         | Ant1 | 10000          | 26000         | 100       | 300       | -0.685    | -44.453          | <-<br>30.685 | PASS    |
| 11G       | 2462         | Ant1 | 30             | 10000         | 100       | 300       | -0.66     | -54.56           | <-<br>30.66  | PASS    |
| 11G       | 2462         | Ant1 | 10000          | 26000         | 100       | 300       | -0.659    | -42.985          | <-<br>30.659 | PASS    |
| 11N20SISO | 2412         | Ant1 | 30             | 10000         | 100       | 300       | -1.39     | -54.05           | <-<br>31.39  | PASS    |
| 11N20SISO | 2412         | Ant1 | 10000          | 26000         | 100       | 300       | -1.391    | -43.646          | <-<br>31.391 | PASS    |
| 11N20SISO | 2437         | Ant1 | 30             | 10000         | 100       | 300       | -0.57     | -52.34           | <-<br>30.57  | PASS    |
| 11N20SISO | 2437         | Ant1 | 10000          | 26000         | 100       | 300       | -0.568    | -44.382          | <-<br>30.568 | PASS    |
| 11N20SISO | 2462         | Ant1 | 30             | 10000         | 100       | 300       | -0.85     | -54.34           | <-<br>30.85  | PASS    |
| 11N20SISO | 2462         | Ant1 | 10000          | 26000         | 100       | 300       | -0.848    | -42.915          | <-<br>30.848 | PASS    |
| 11N40SISO | 2422         | Ant1 | 30             | 10000         | 100       | 300       | -5.88     | -53.63           | <-<br>35.88  | PASS    |
| 11N40SISO | 2422         | Ant1 | 10000          | 26000         | 100       | 300       | -5.875    | -43.202          | <-<br>35.875 | PASS    |
| 11N40SISO | 2437         | Ant1 | 30             | 10000         | 100       | 300       | -5.85     | -53.40           | <-<br>35.85  | PASS    |
| 11N40SISO | 2437         | Ant1 | 10000          | 26000         | 100       | 300       | -5.85     | -44.032          | <-<br>35.85  | PASS    |
| 11N40SISO | 2452         | Ant1 | 30             | 10000         | 100       | 300       | -5.83     | -54.33           | <-<br>35.83  | PASS    |

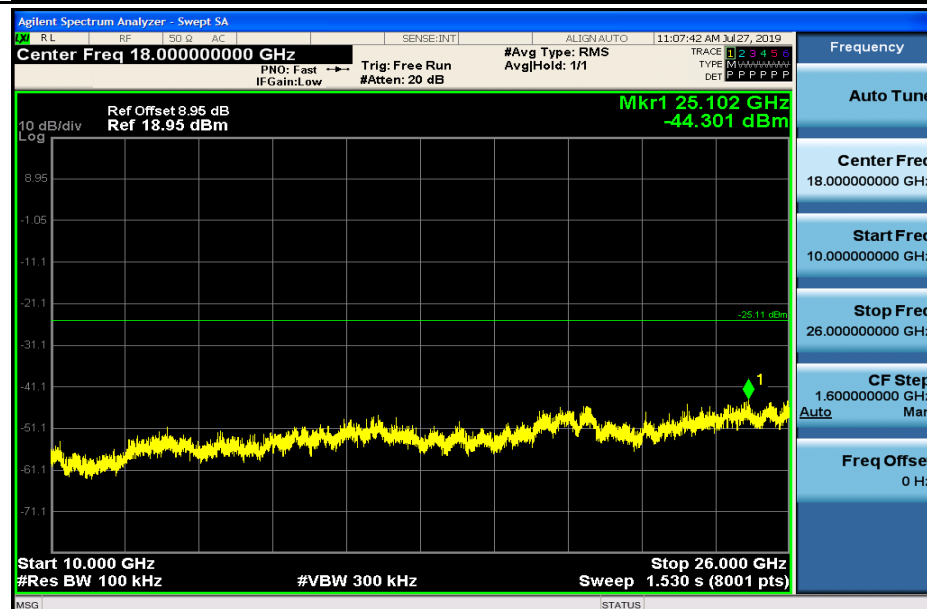
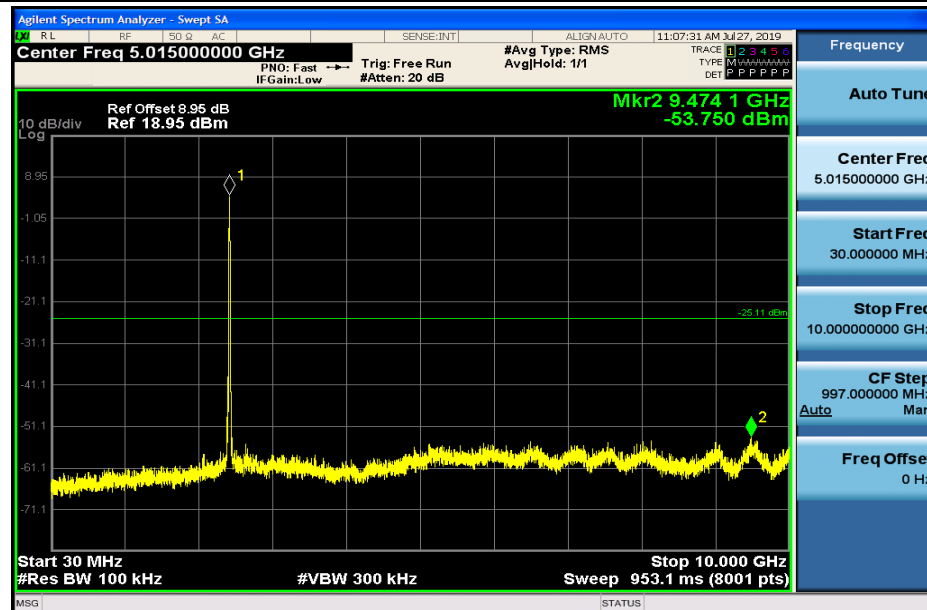
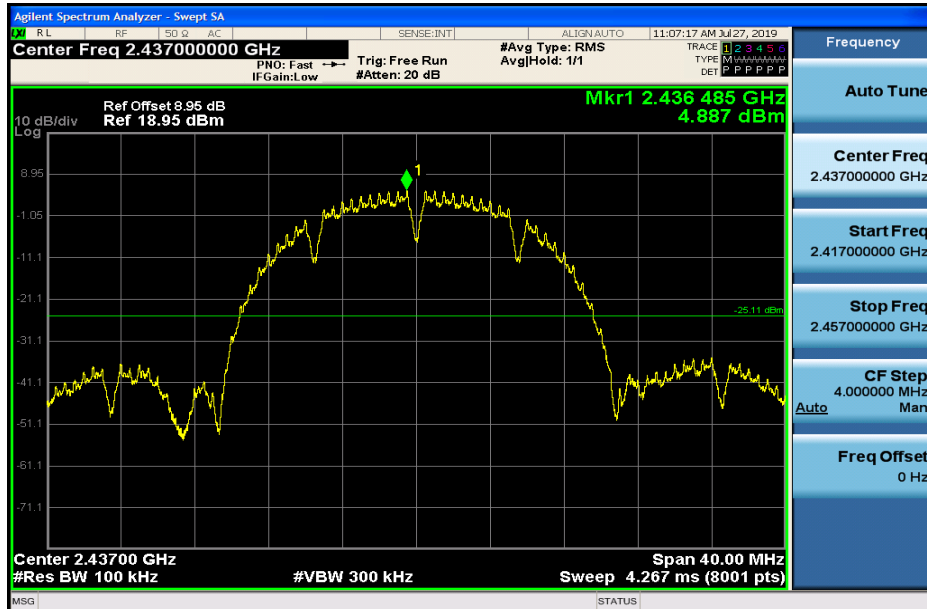


|           |      |      |       |       |     |     |        |         |              |      |
|-----------|------|------|-------|-------|-----|-----|--------|---------|--------------|------|
| 11N40SISO | 2452 | Ant1 | 10000 | 26000 | 100 | 300 | -5.832 | -42.891 | <-<br>35.832 | PASS |
|-----------|------|------|-------|-------|-----|-----|--------|---------|--------------|------|

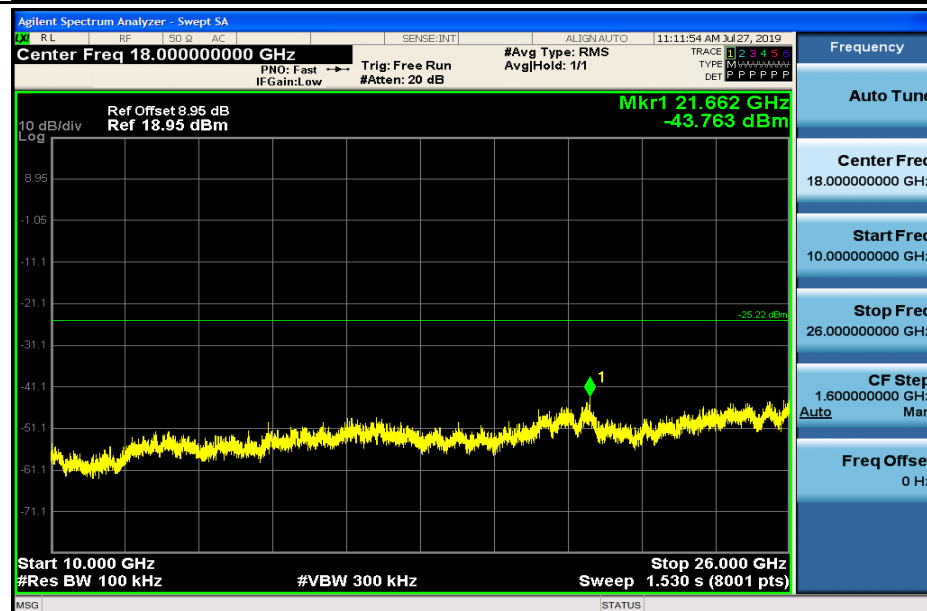
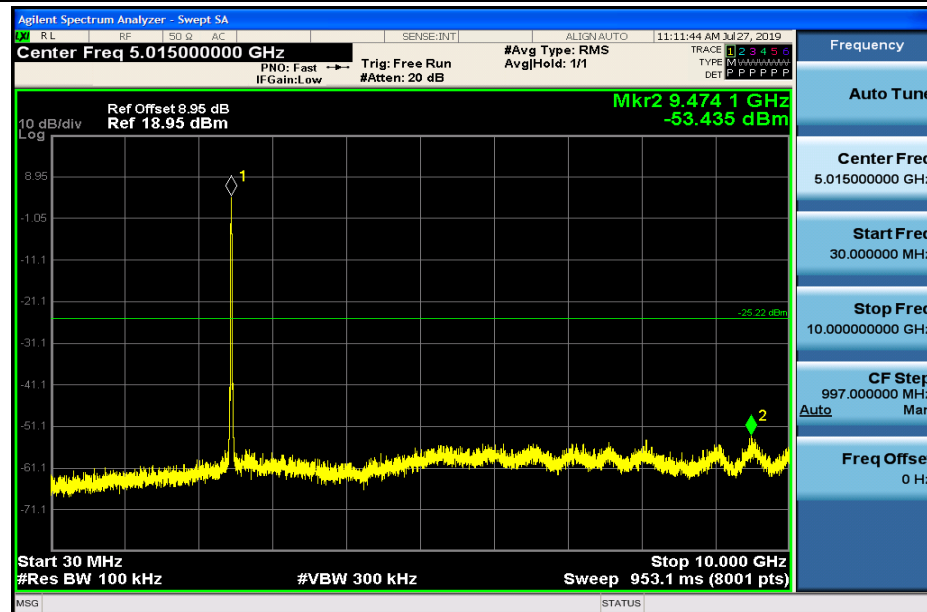
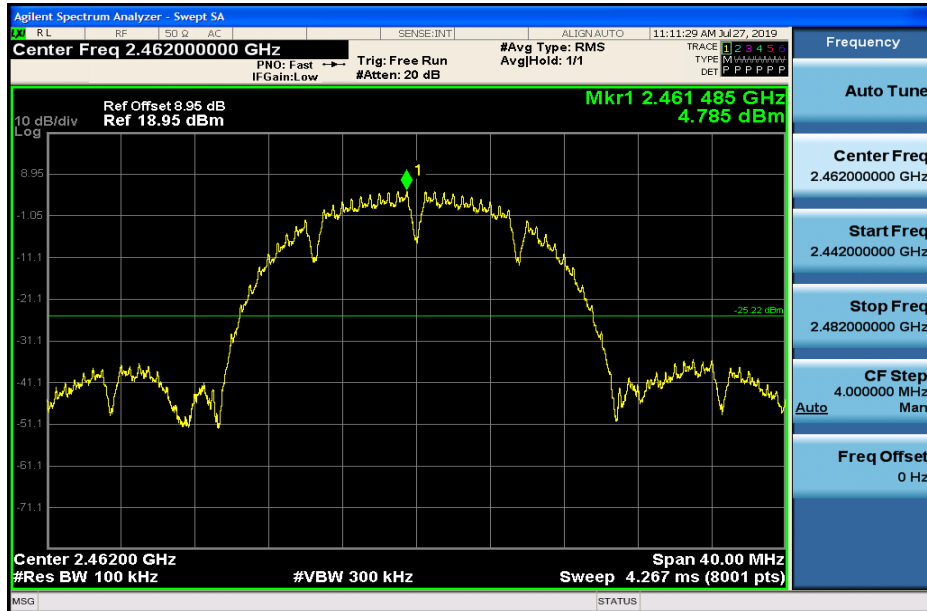
# RF Conducted Spurious Emissions\_11B\_2412



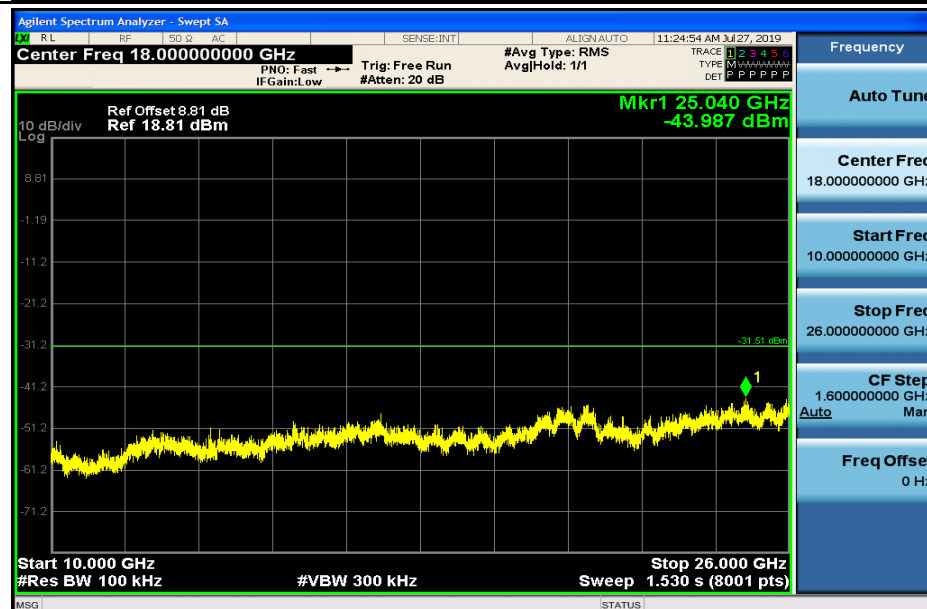
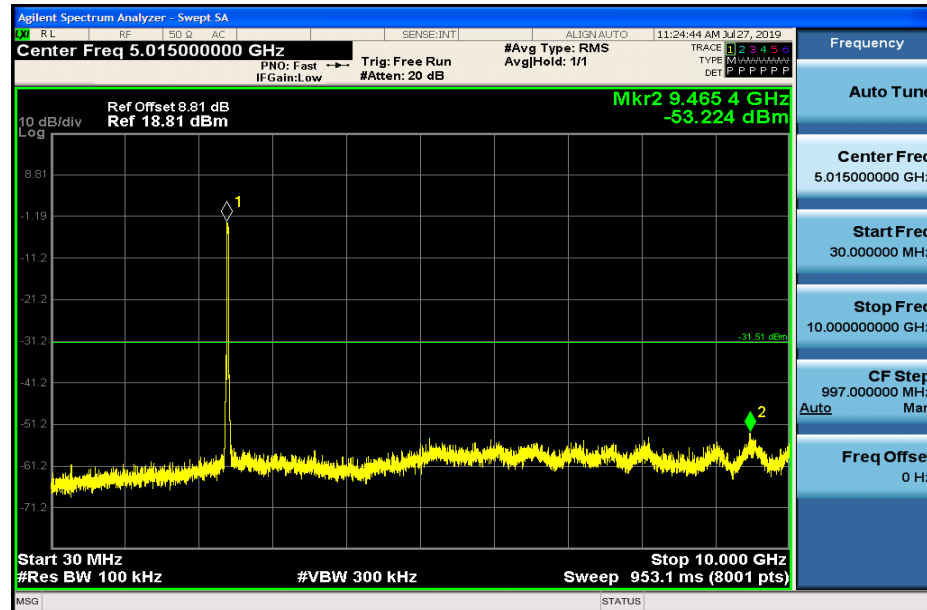
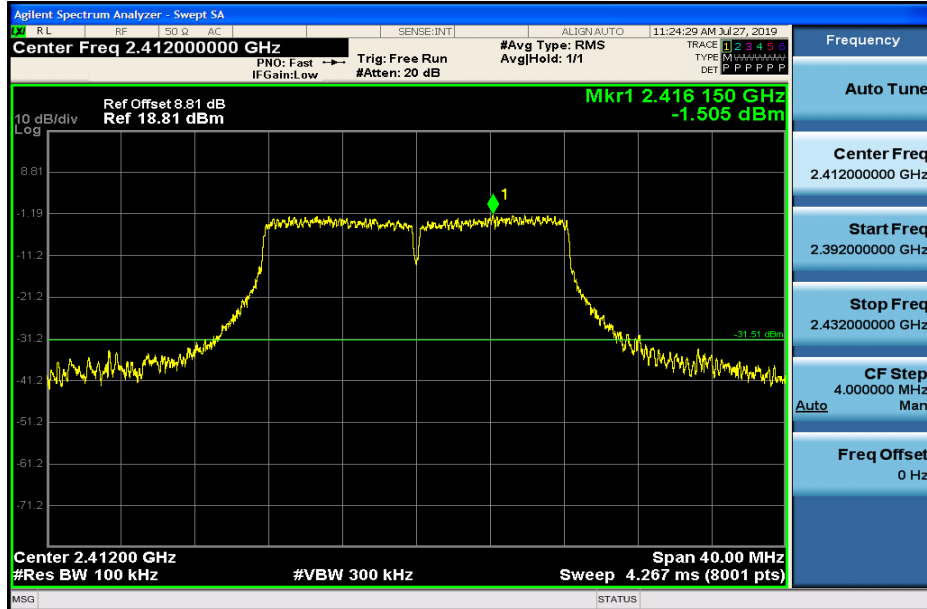
RF Conducted Spurious Emissions\_11B\_2437



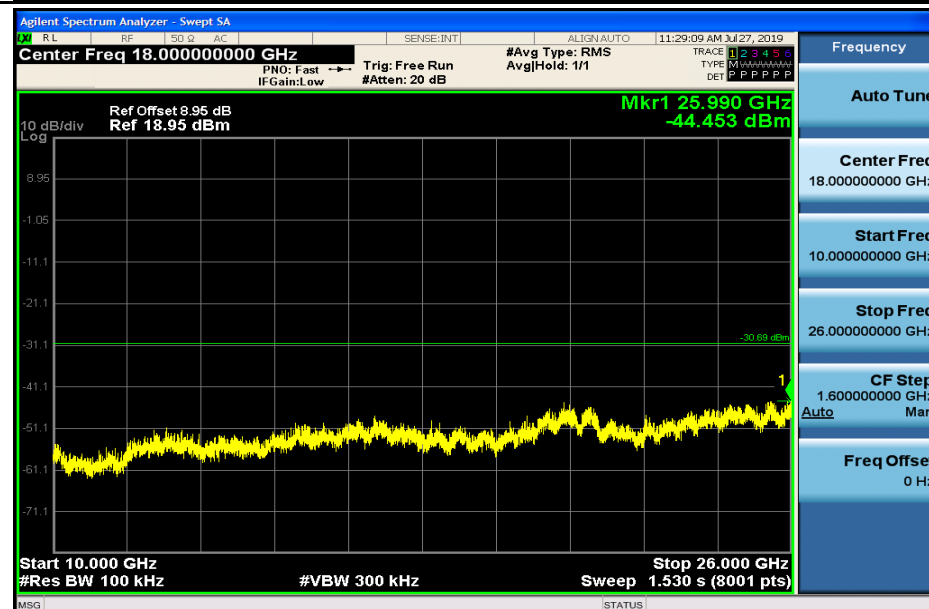
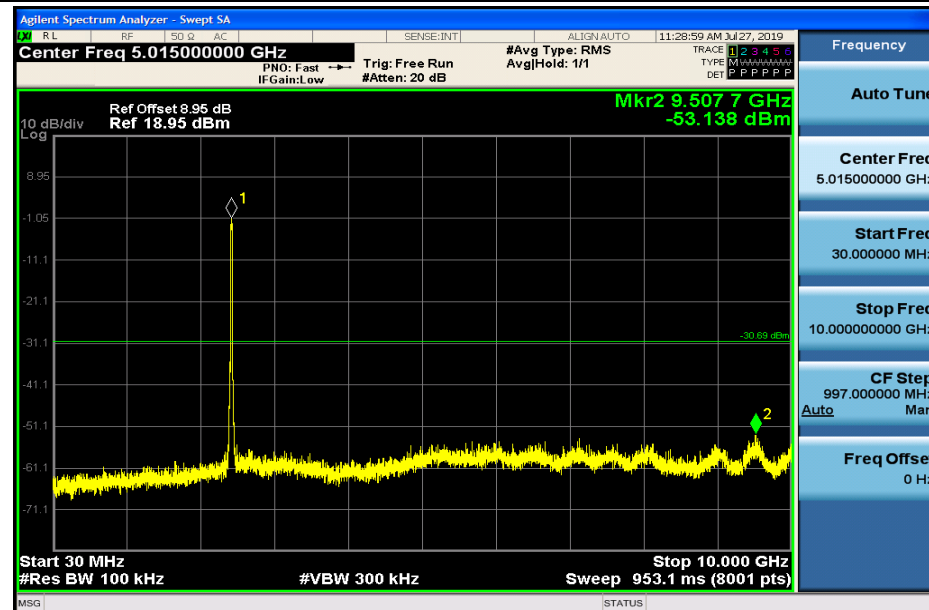
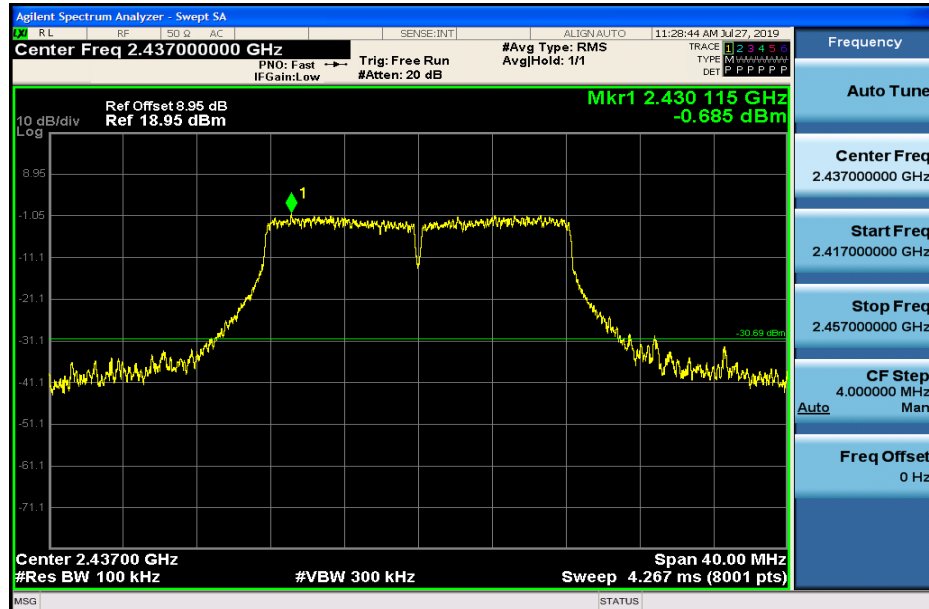
RF Conducted Spurious Emissions\_11B\_2462



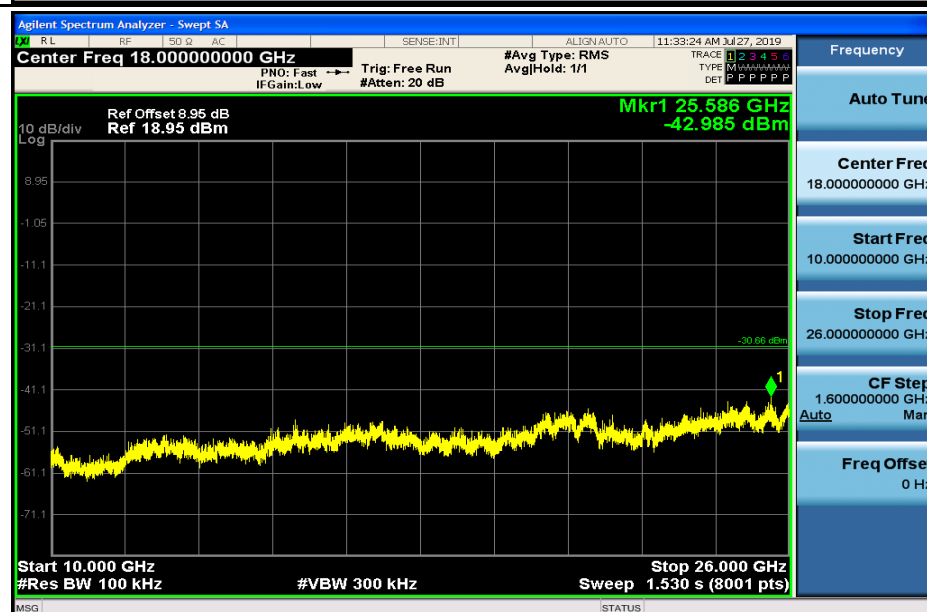
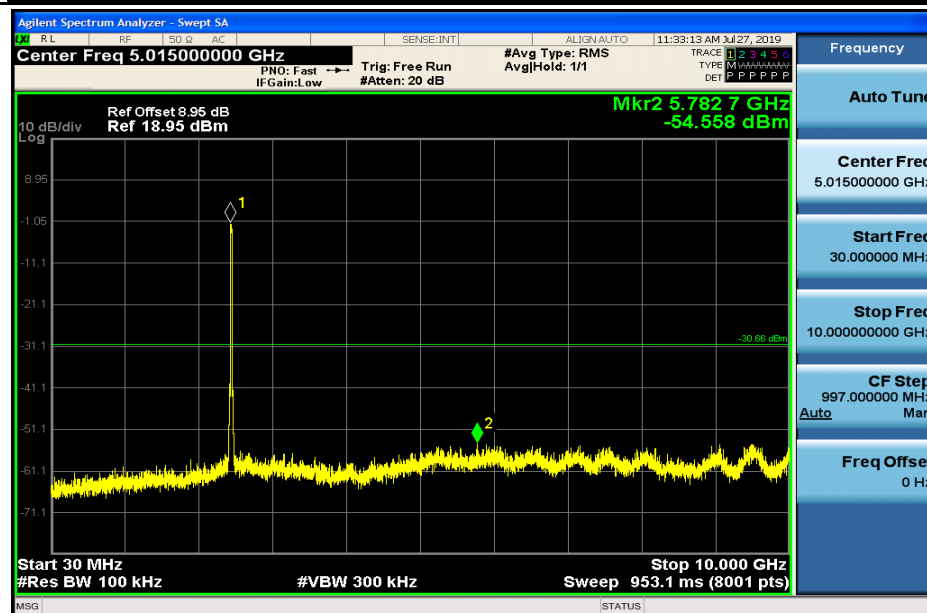
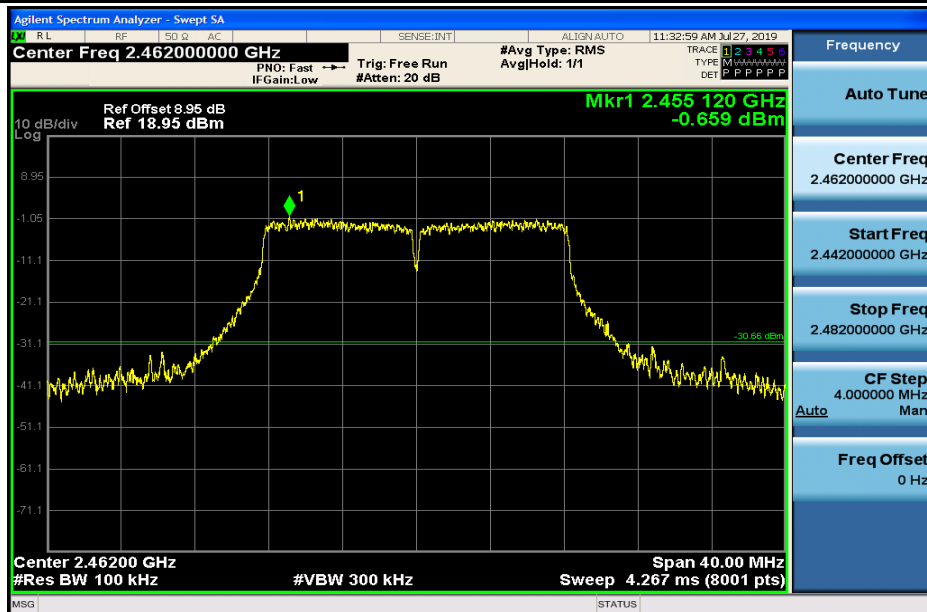
RF Conducted Spurious Emissions\_11G\_2412



# RF Conducted Spurious Emissions\_11G\_2437

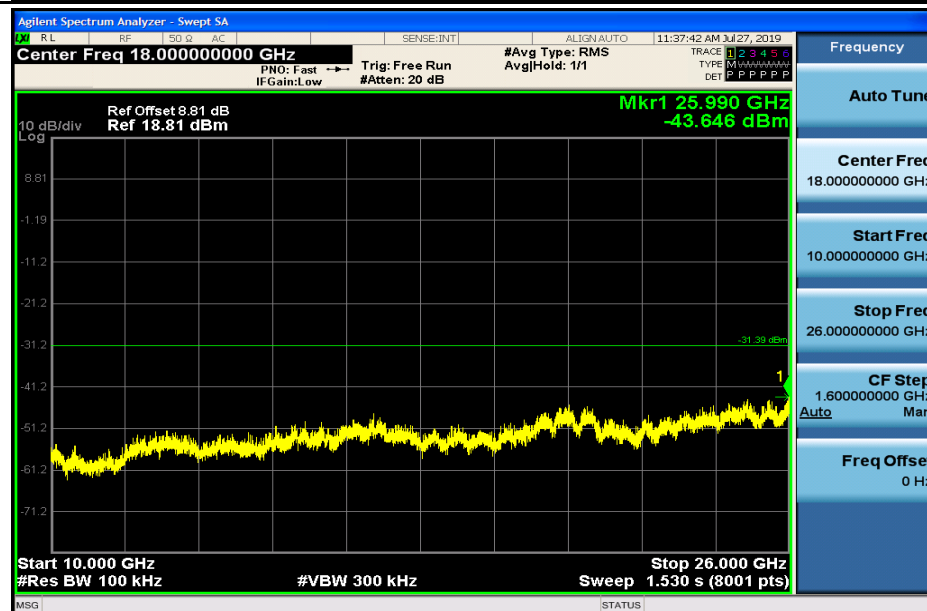
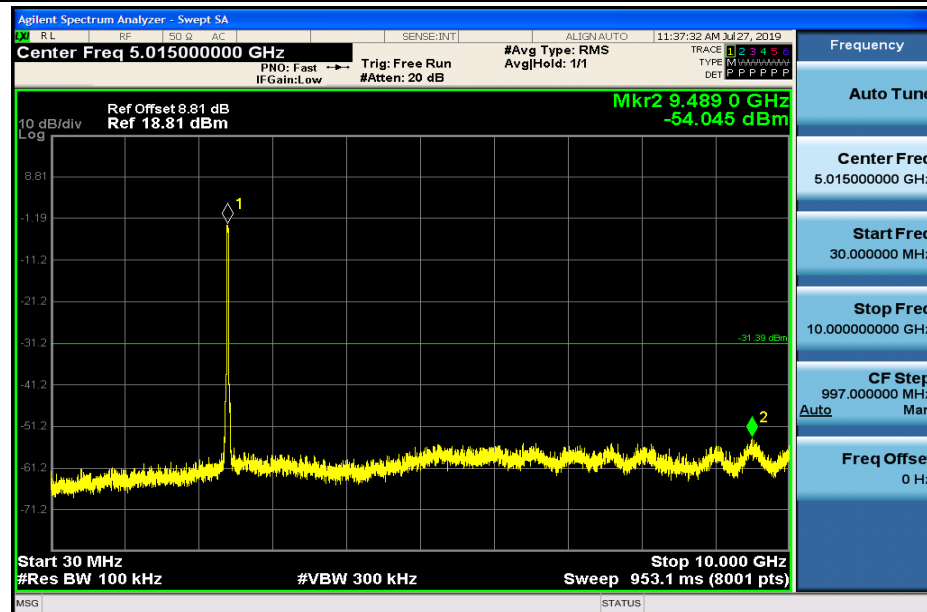
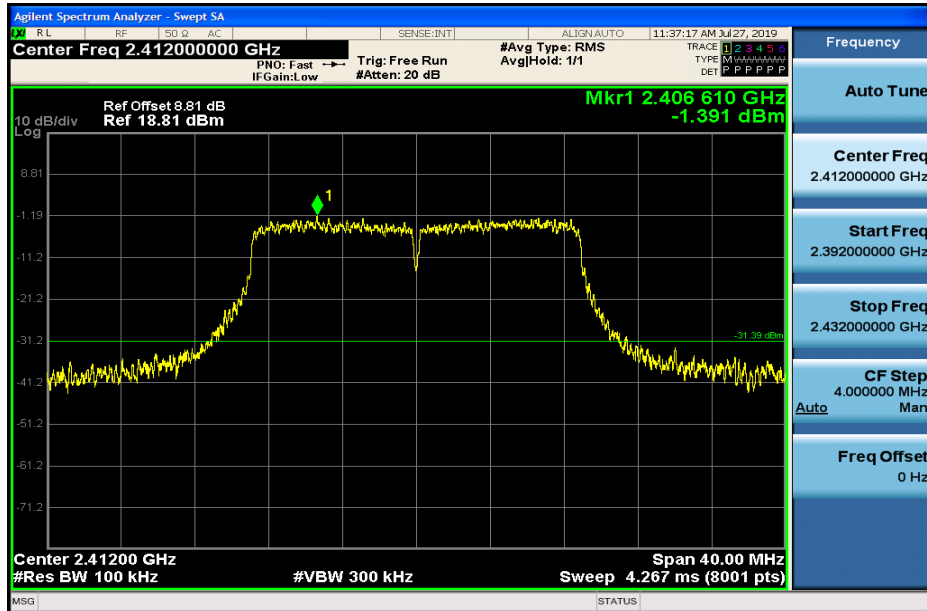


## RF Conducted Spurious Emissions\_11G\_2462

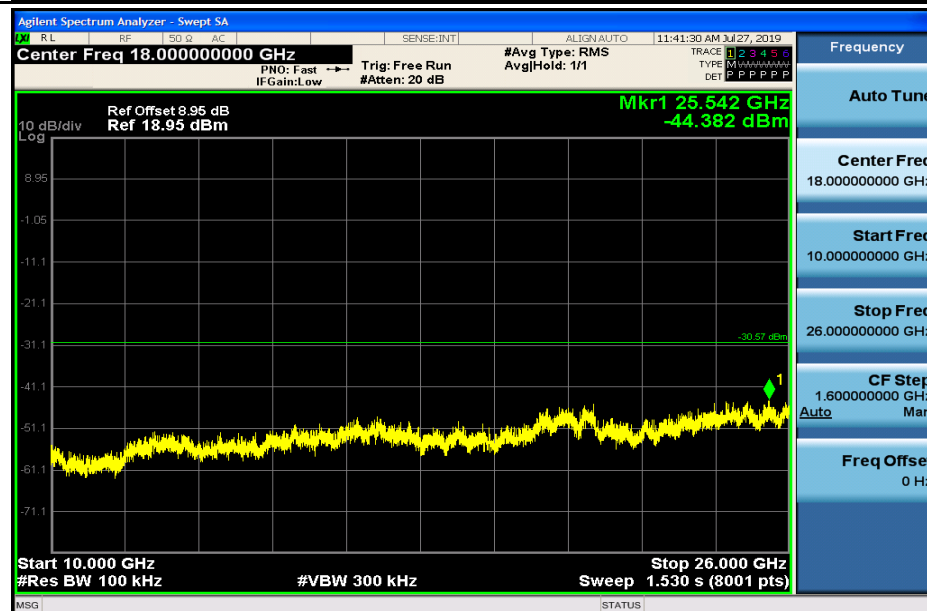
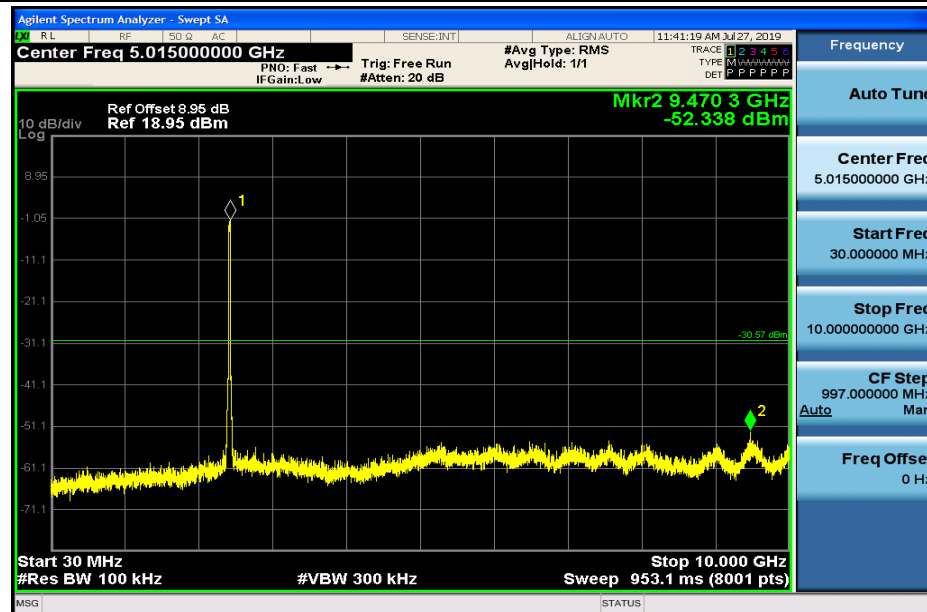
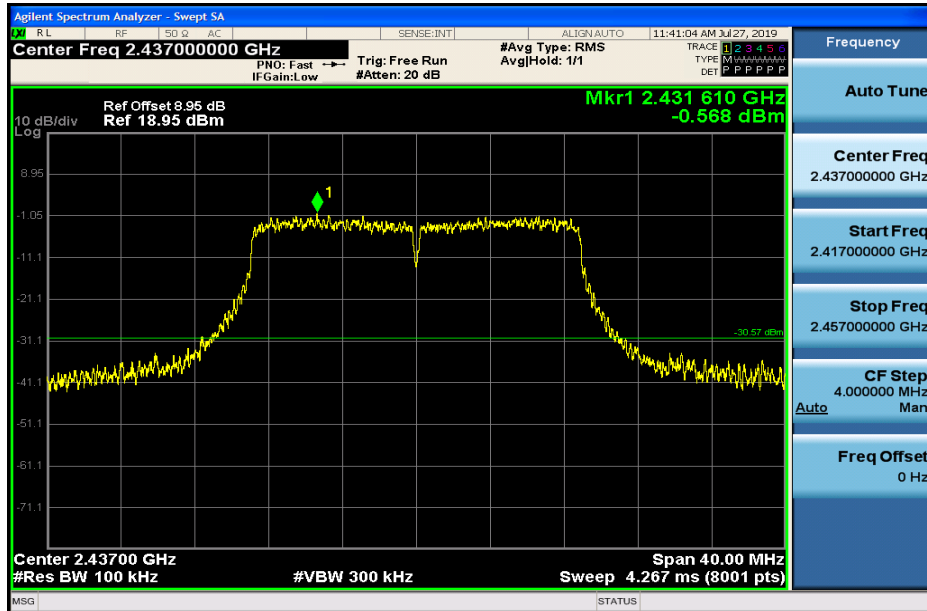




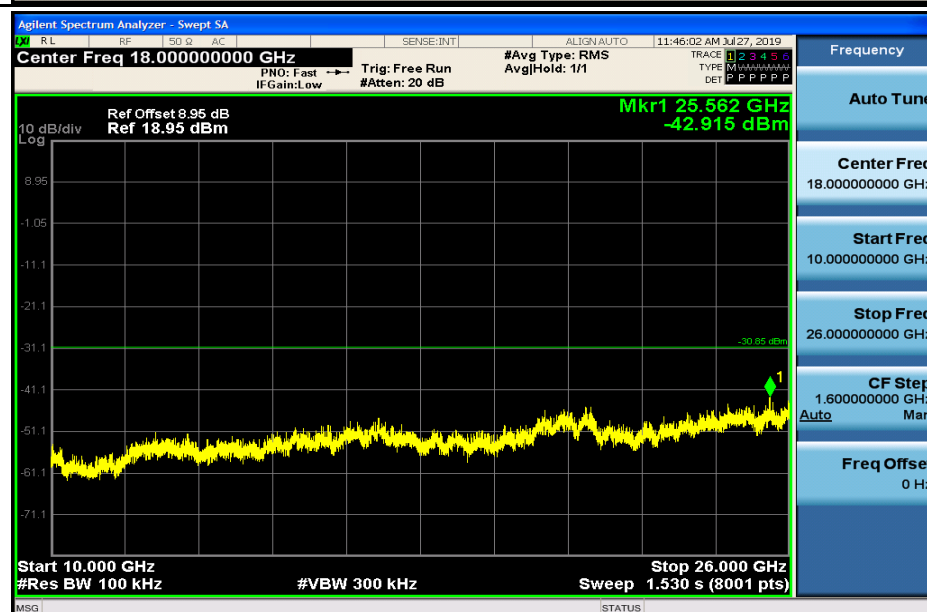
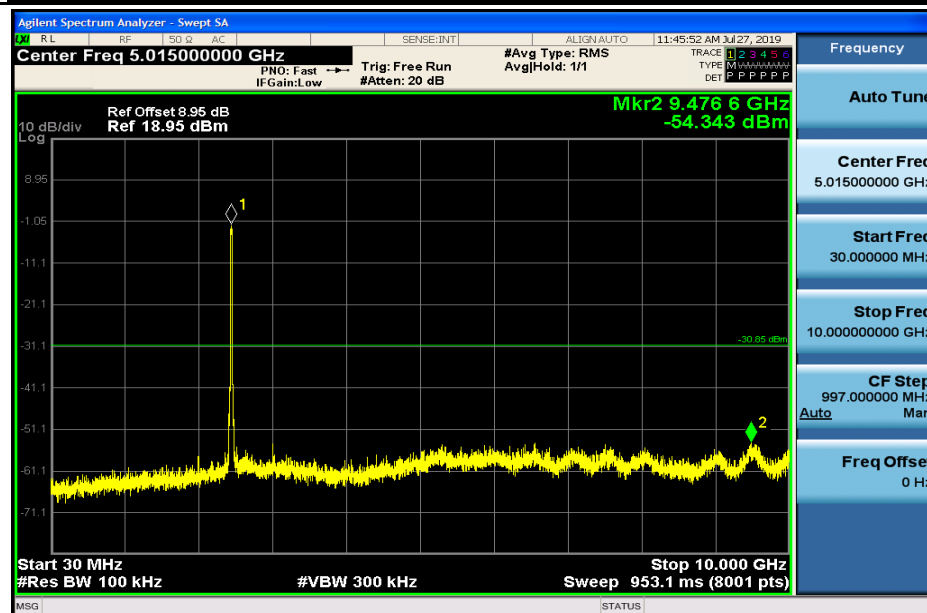
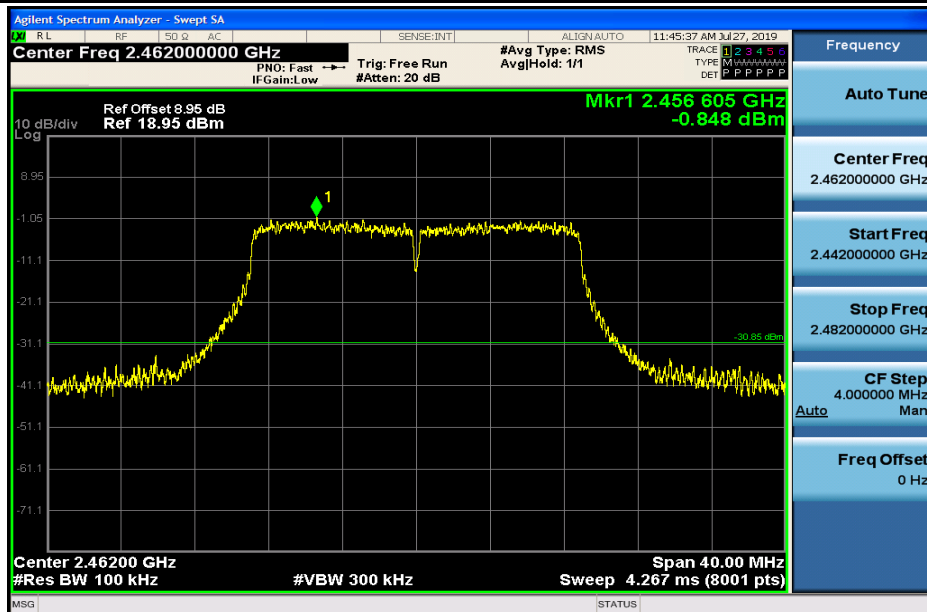
RF Conducted Spurious Emissions\_11N20SISO\_2412



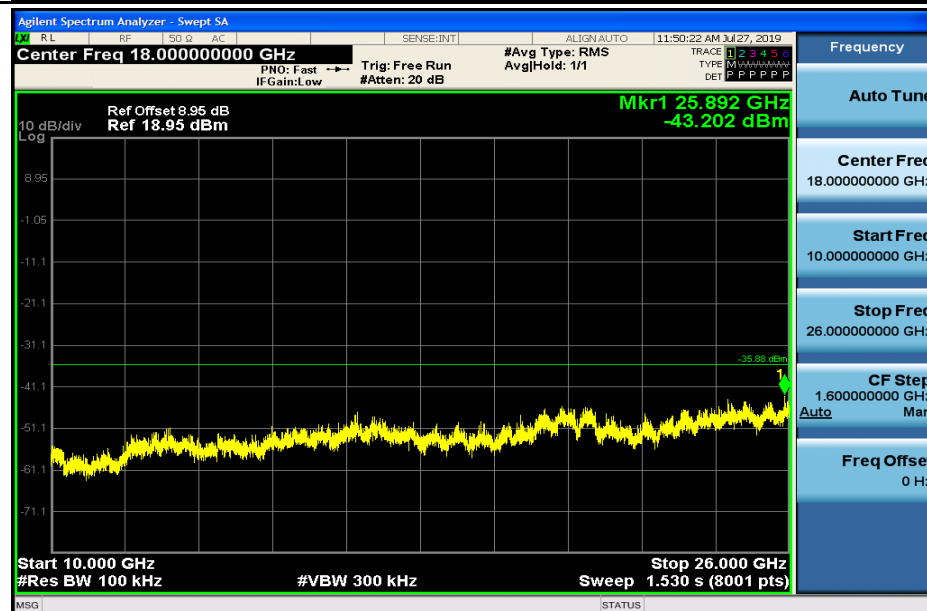
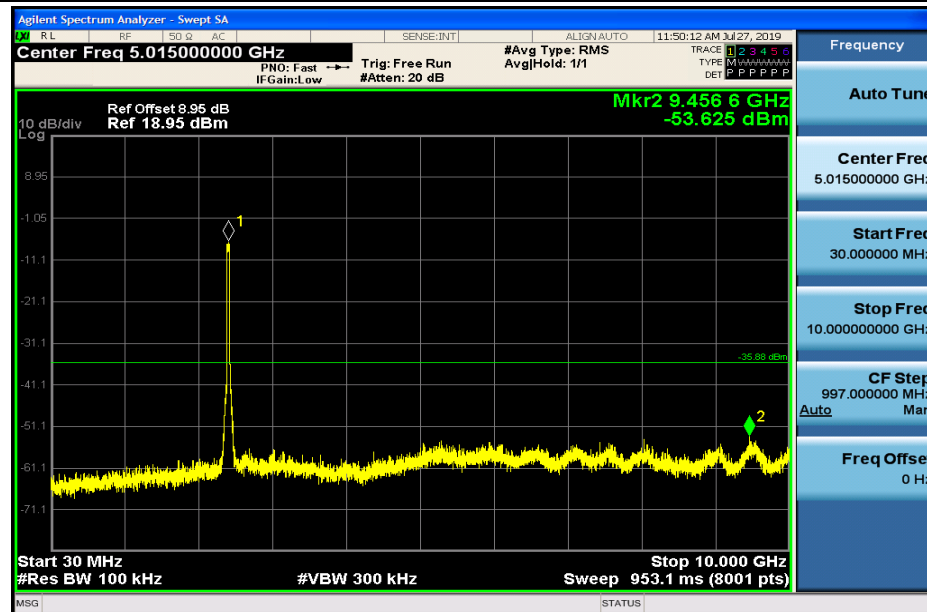
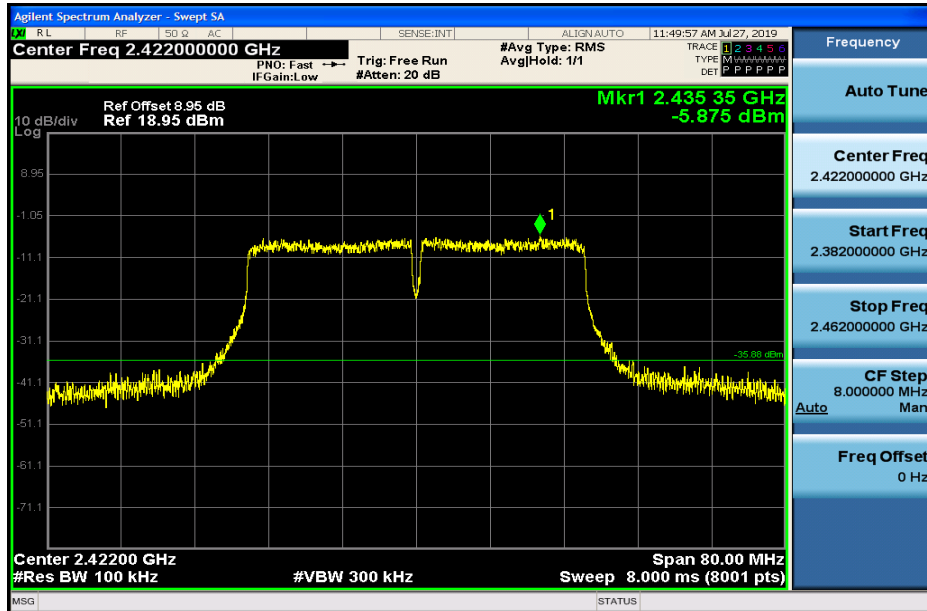
## RF Conducted Spurious Emissions\_11N20SISO\_2437



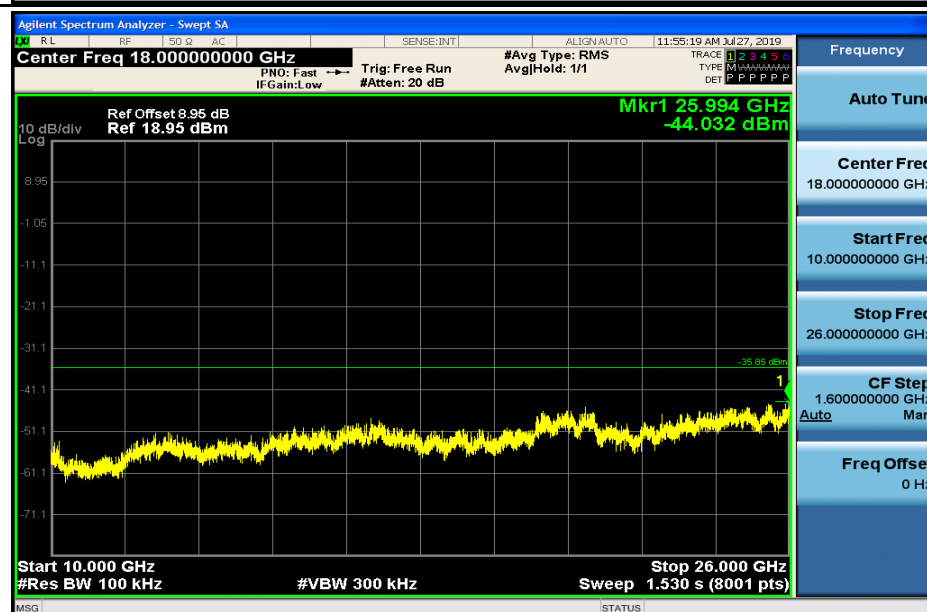
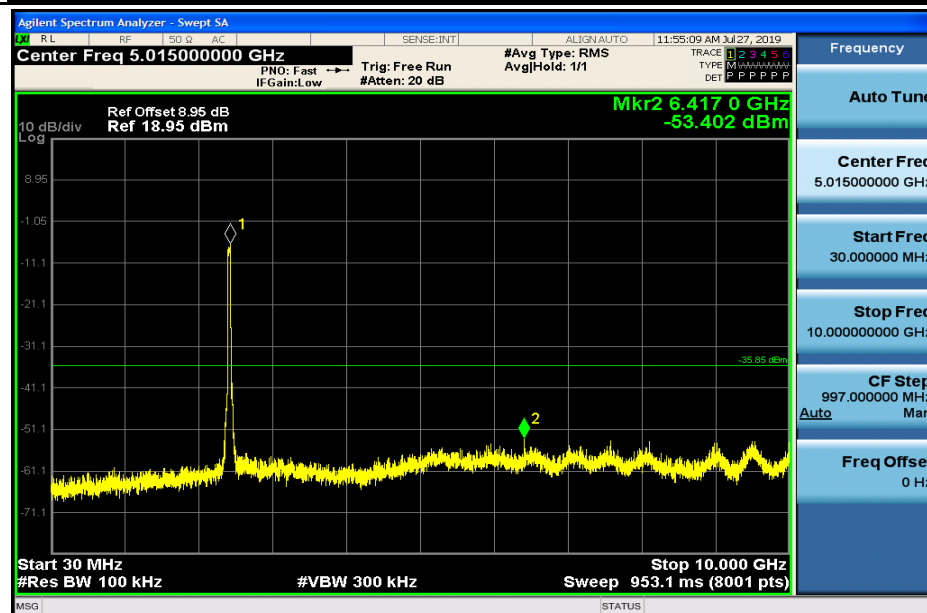
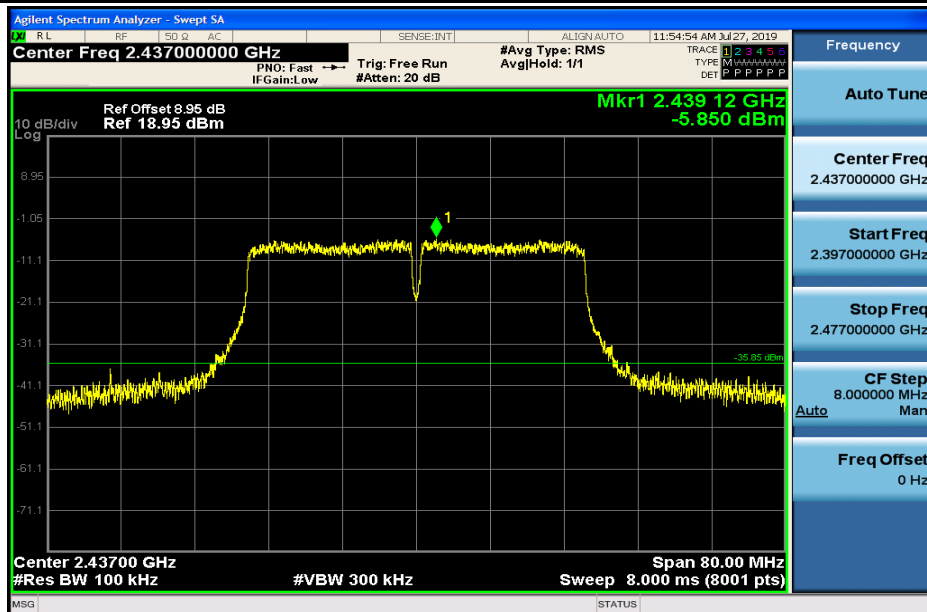
## RF Conducted Spurious Emissions\_11N20SISO\_2462



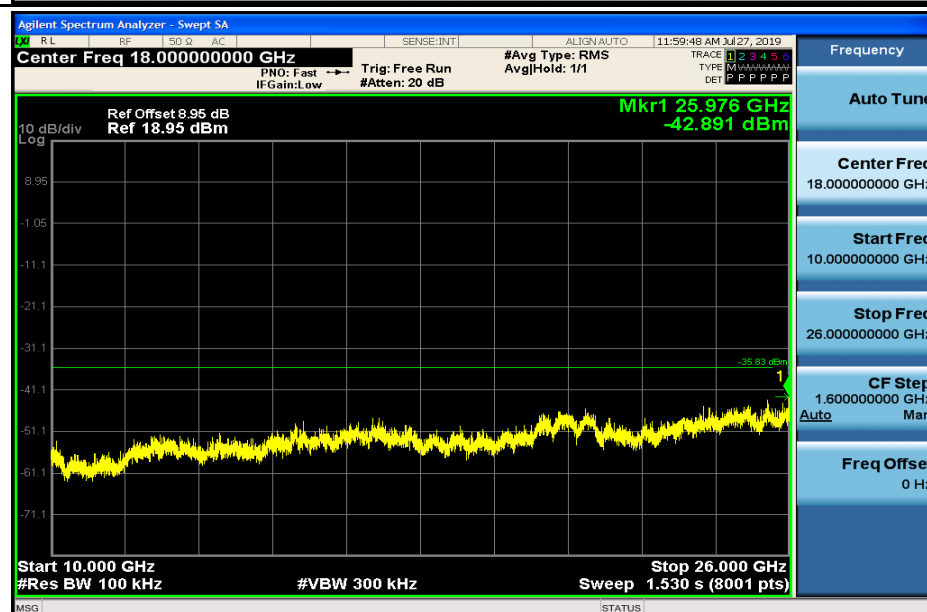
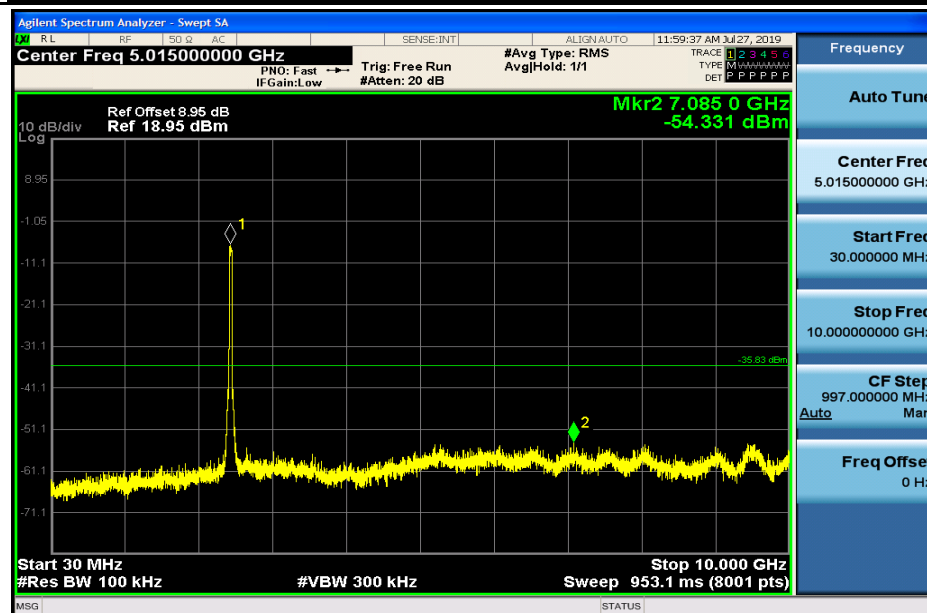
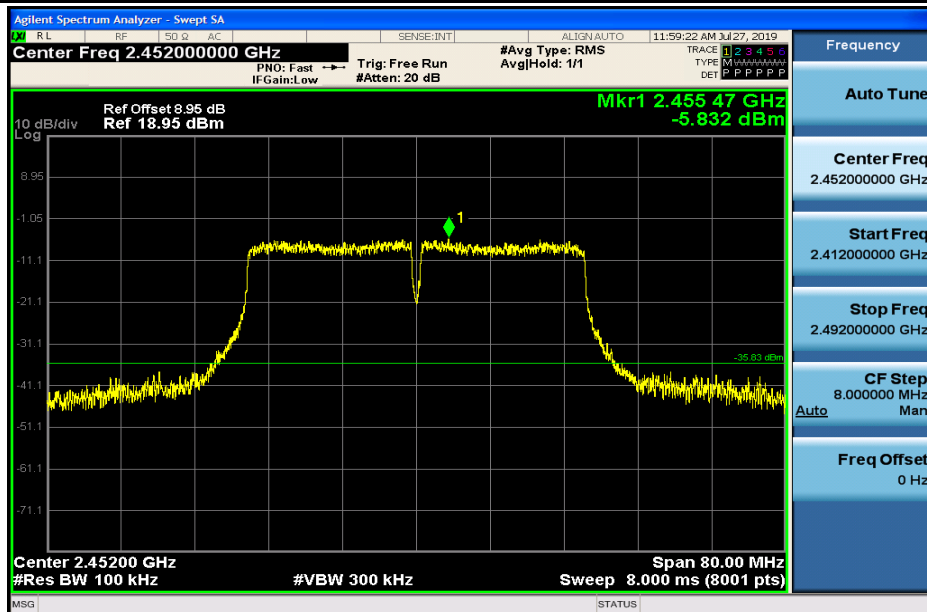
RF Conducted Spurious Emissions\_11N40SISO\_2422



RF Conducted Spurious Emissions\_11N40SISO\_2437



RF Conducted Spurious Emissions\_11N40SISO\_2452

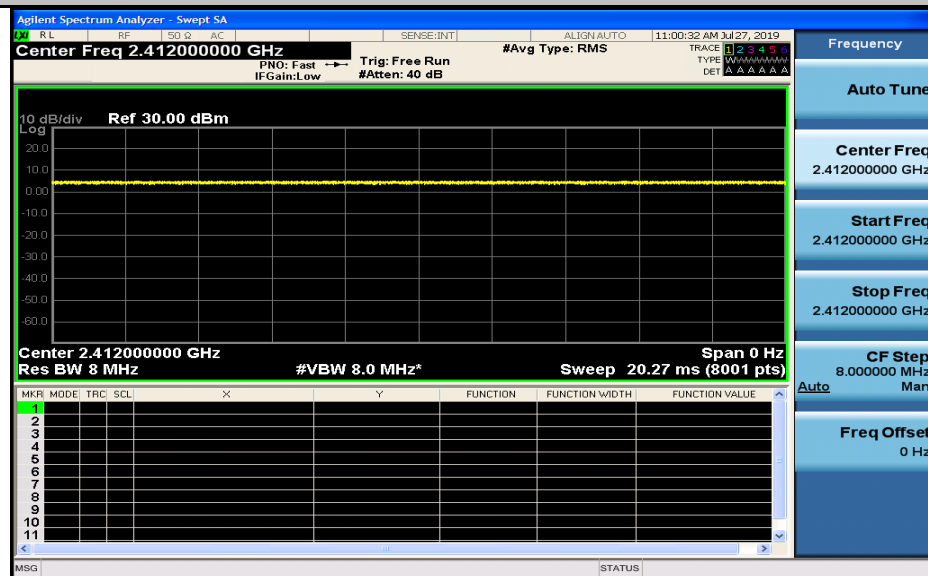


## 7.Duty Cycle

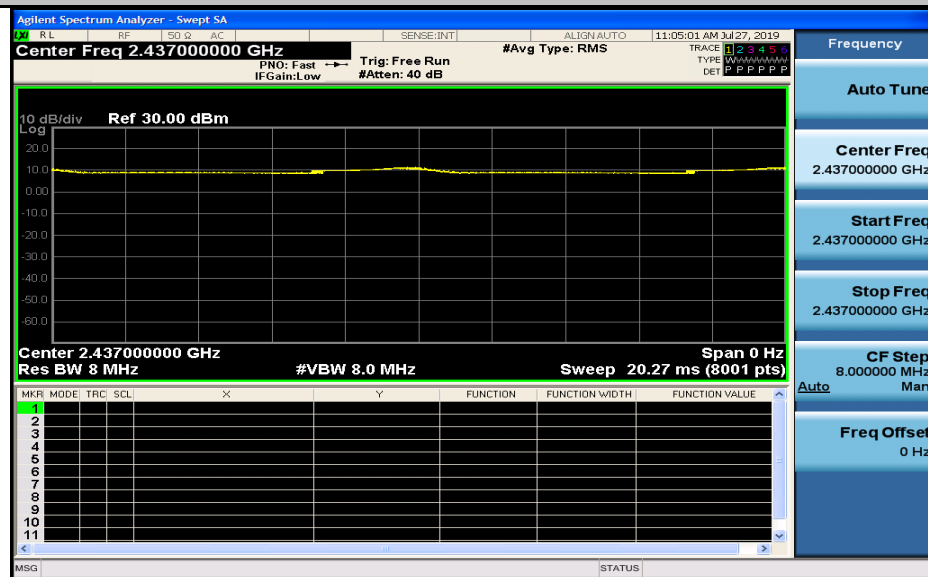
| Test Mode | Test Channel | Ant  | Duty Cycle[%] | 10log(1/x) Factor[dB] |
|-----------|--------------|------|---------------|-----------------------|
| 11B       | 2412         | Ant1 | 100.00        | 0.00                  |
| 11B       | 2437         | Ant1 | 100.00        | 0.00                  |
| 11B       | 2462         | Ant1 | 100.00        | 0.00                  |
| 11G       | 2412         | Ant1 | 100.00        | 0.00                  |
| 11G       | 2437         | Ant1 | 100.00        | 0.00                  |
| 11G       | 2462         | Ant1 | 100.00        | 0.00                  |
| 11N20SISO | 2412         | Ant1 | 100.00        | 0.00                  |
| 11N20SISO | 2437         | Ant1 | 100.00        | 0.00                  |
| 11N20SISO | 2462         | Ant1 | 100.00        | 0.00                  |
| 11N40SISO | 2422         | Ant1 | 100.00        | 0.00                  |
| 11N40SISO | 2437         | Ant1 | 100.00        | 0.00                  |
| 11N40SISO | 2452         | Ant1 | 100.00        | 0.00                  |



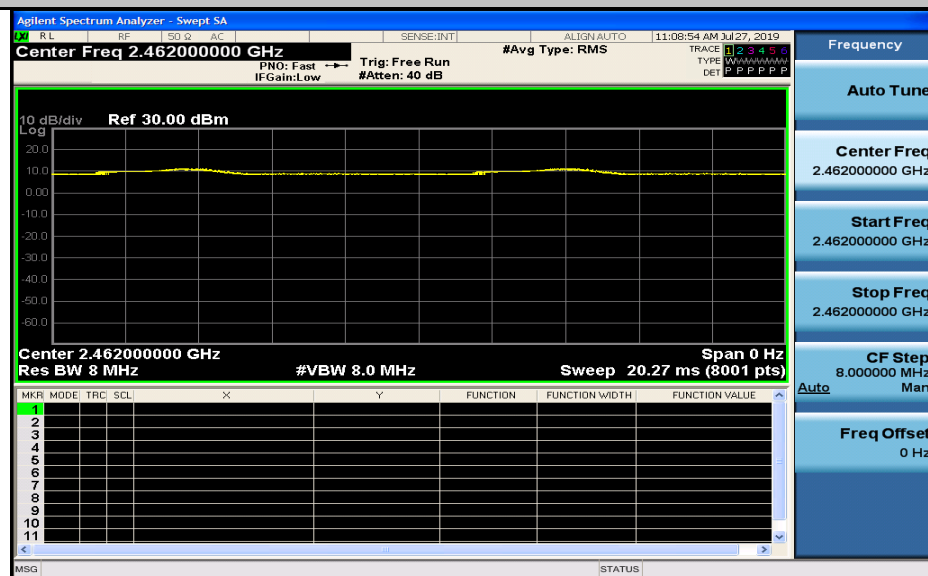
Duty Cycle\_11B\_2412\_Ant1



Duty Cycle\_11B\_2437\_Ant1

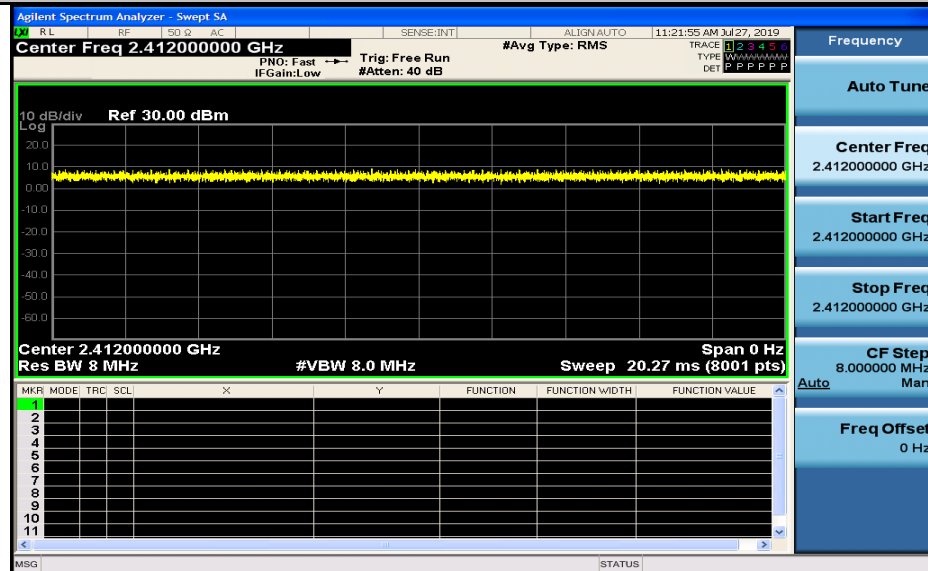


Duty Cycle\_11B\_2462\_Ant1

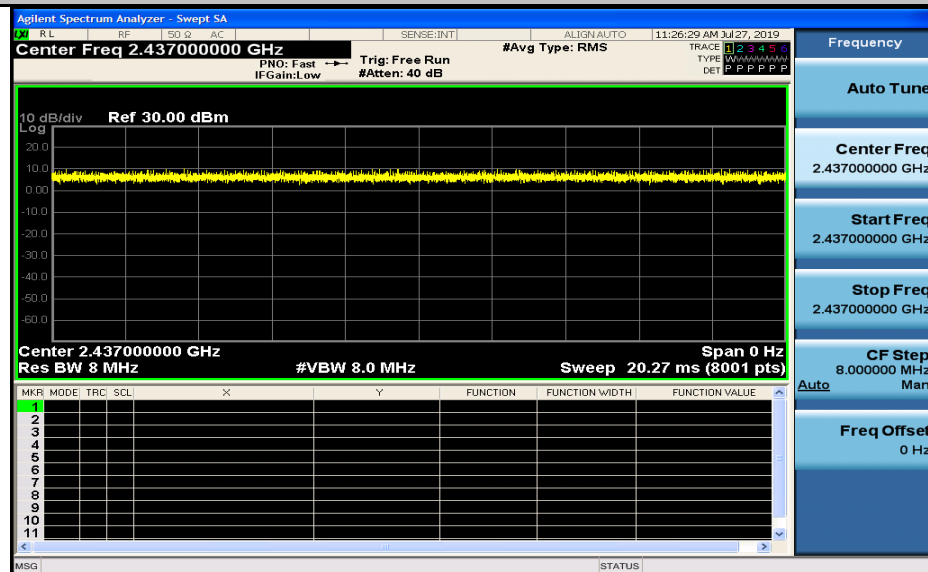




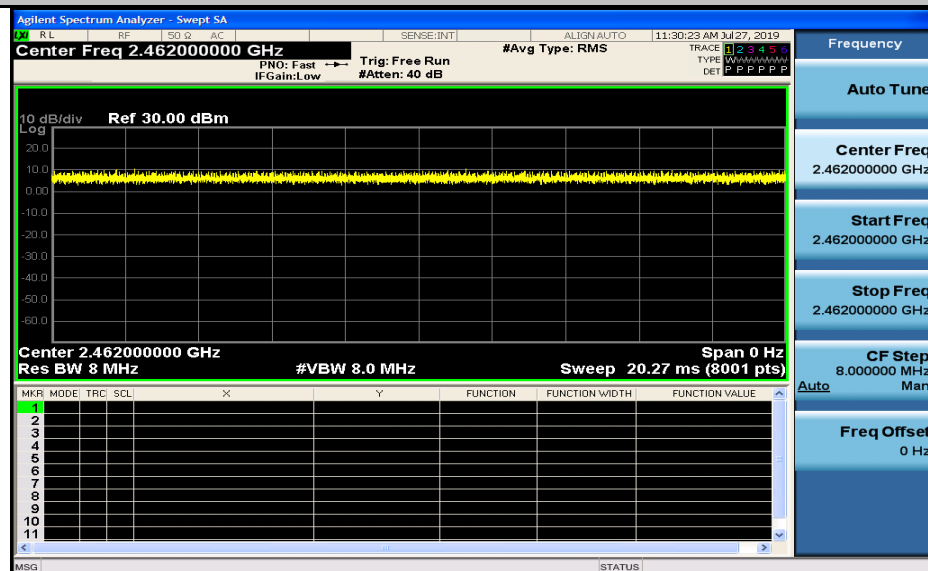
## Duty Cycle\_11G\_2412\_Ant1



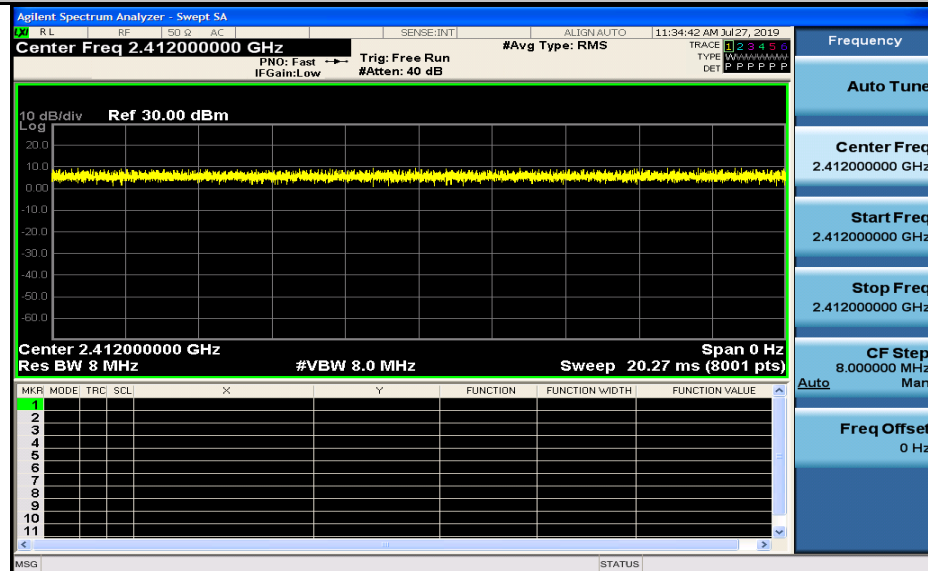
## Duty Cycle\_11G\_2437\_Ant1



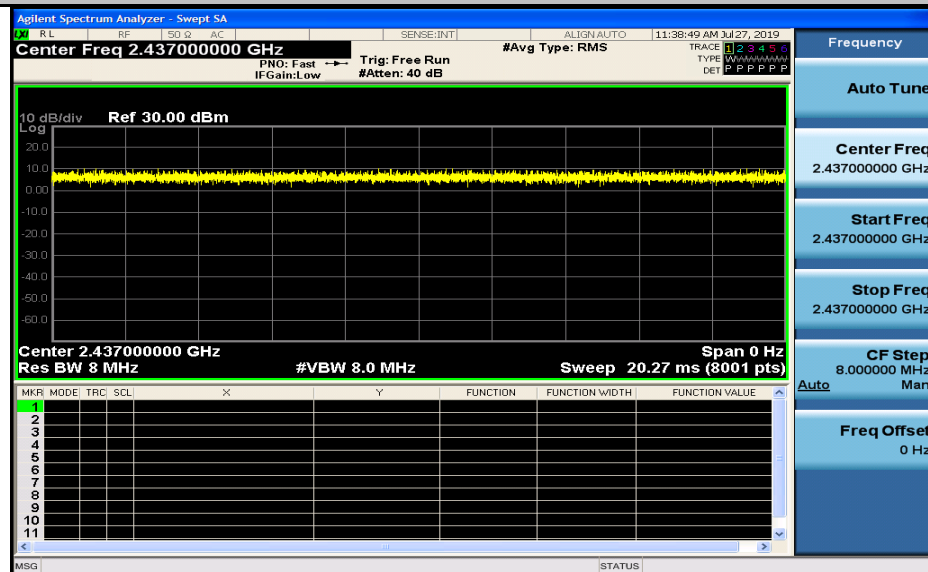
## Duty Cycle\_11G\_2462\_Ant1



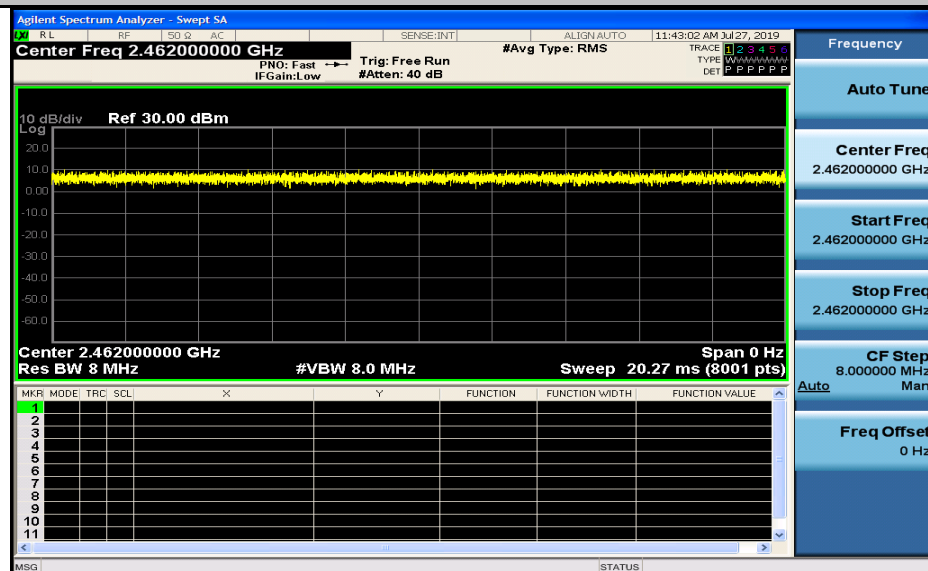
## Duty Cycle\_11N20SISO\_2412\_Ant1



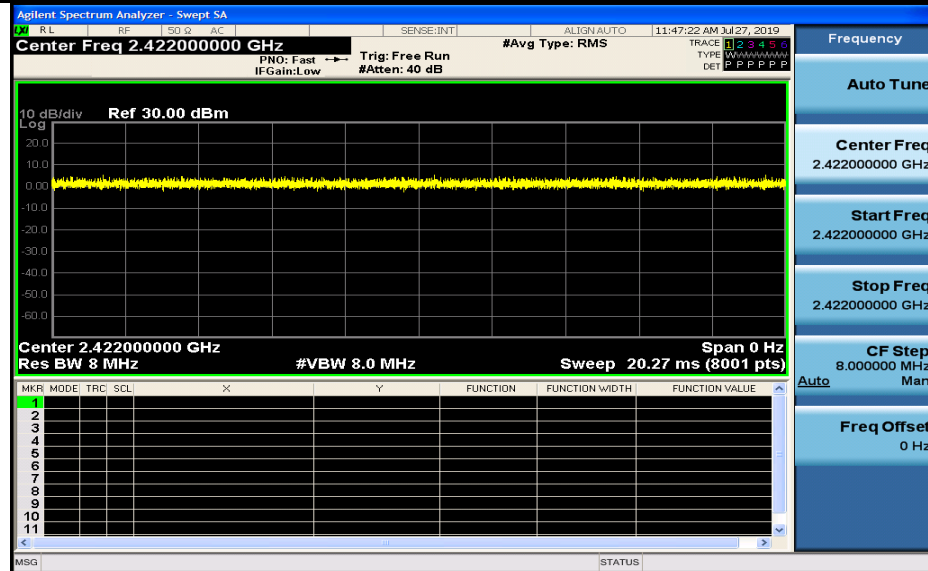
## Duty Cycle\_11N20SISO\_2437\_Ant1



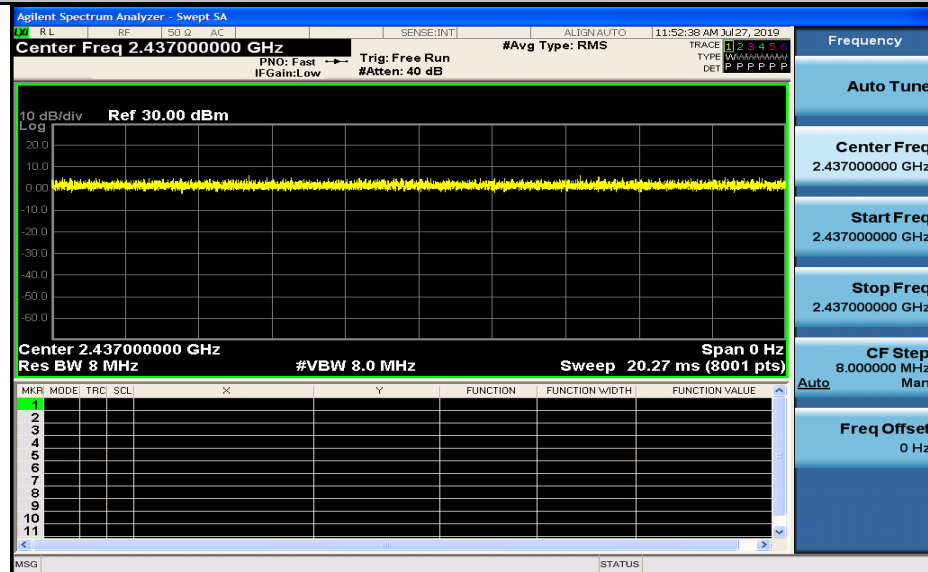
## Duty Cycle\_11N20SISO\_2462\_Ant1



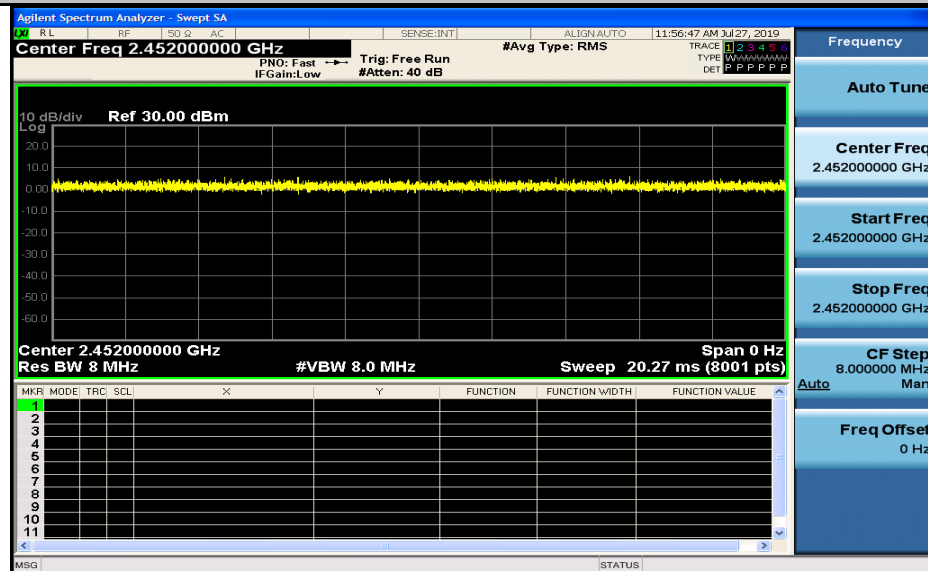
Duty Cycle\_11N40SISO\_2422\_Ant1



Duty Cycle\_11N40SISO\_2437\_Ant1



Duty Cycle\_11N40SISO\_2452\_Ant1





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