

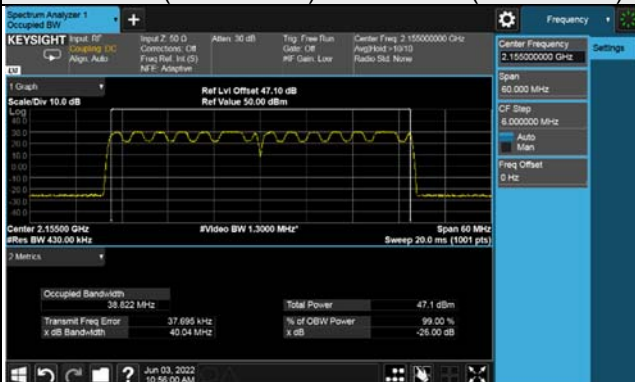
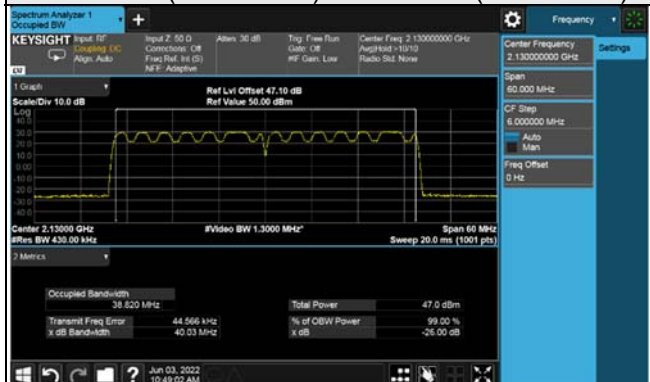
# Ant. TX 1

## OCP 99 Bandwidth

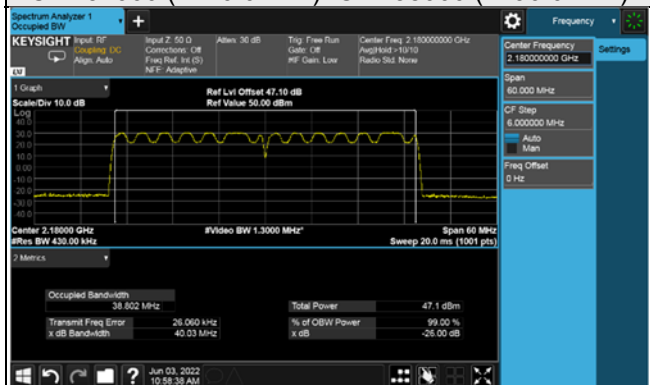
### QPSK

Ch 424000 (2120.0MHz)+Ch 428000 (2140.0MHz)

Ch 429000 (2145.0MHz)+Ch 433000 (2165.0MHz)

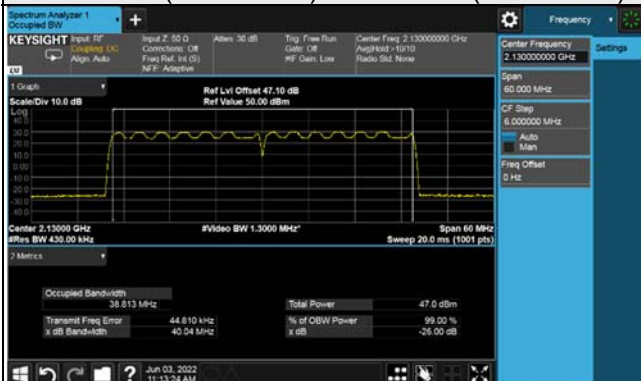


Ch 434000 (2170.0MHz)+Ch 438000 (2190.0MHz)

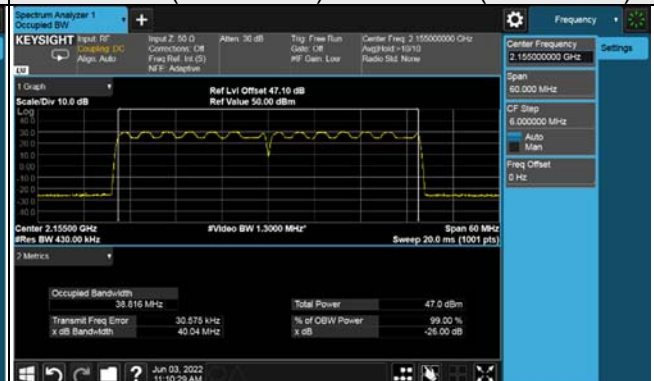


## 16QAM

Ch 424000 (2120.0MHz)+Ch 428000 (2140.0MHz)



Ch 429000 (2145.0MHz)+Ch 433000 (2165.0MHz)



Ch 434000 (2170.0MHz)+Ch 438000 (2190.0MHz)



## 64QAM

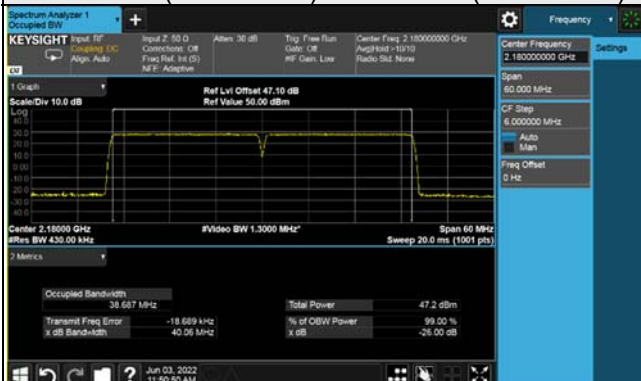
Ch 424000 (2120.0MHz)+Ch 428000 (2140.0MHz)



Ch 429000 (2145.0MHz)+Ch 433000 (2165.0MHz)

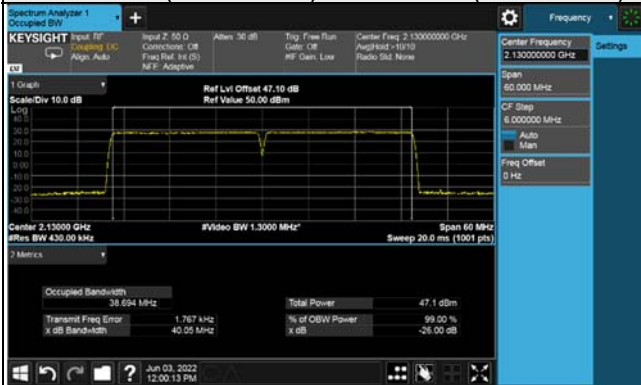


Ch 434000 (2170.0MHz)+Ch 438000 (2190.0MHz)

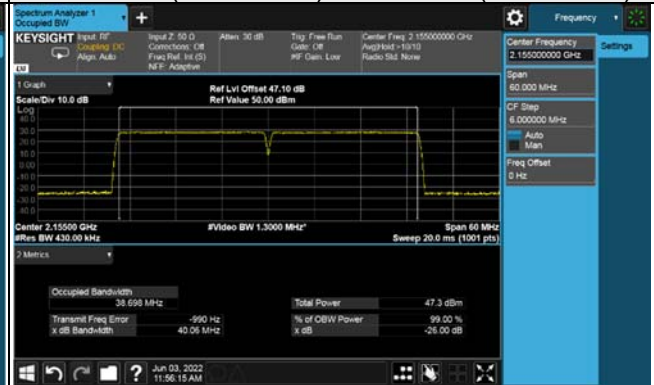


## 256QAM

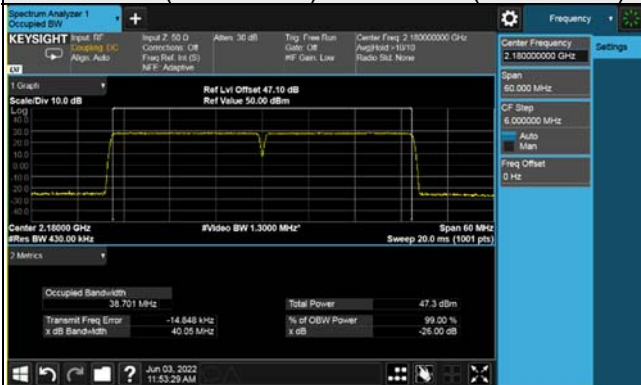
Ch 424000 (2120.0MHz)+Ch 428000 (2140.0MHz)



Ch 429000 (2145.0MHz)+Ch 433000 (2165.0MHz)



Ch 434000 (2170.0MHz)+Ch 438000 (2190.0MHz)



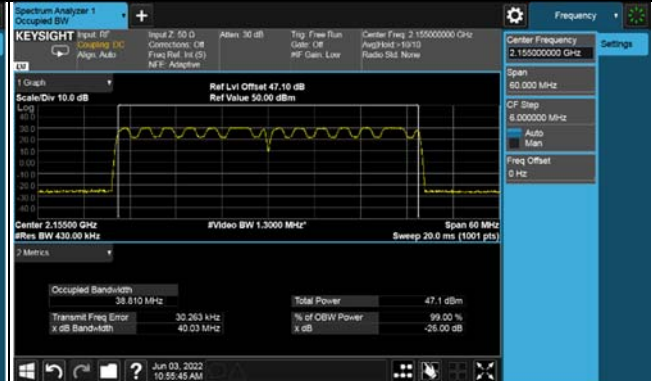
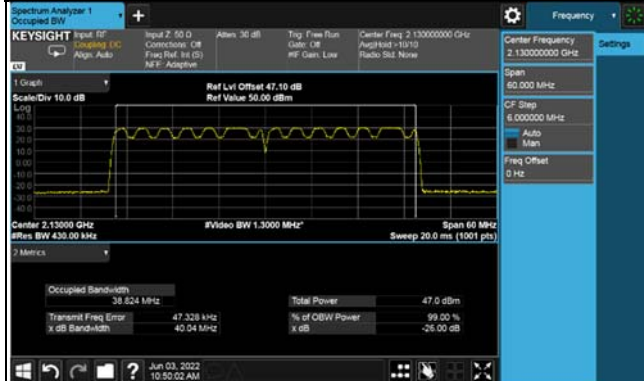
## Ant. TX 2

### OCP 99 Bandwidth

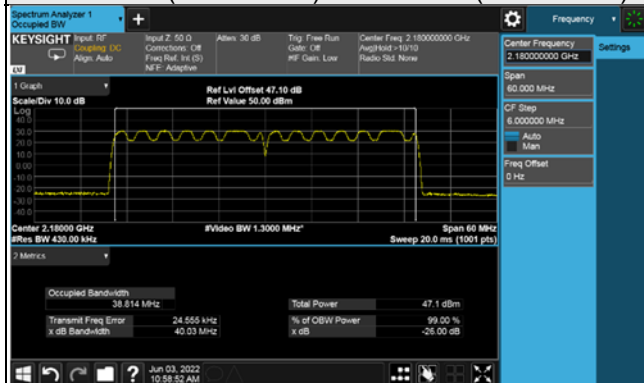
#### QPSK

Ch 424000 (2120.0MHz)+Ch 428000 (2140.0MHz)

Ch 429000 (2145.0MHz)+Ch 433000 (2165.0MHz)



Ch 434000 (2170.0MHz)+Ch 438000 (2190.0MHz)

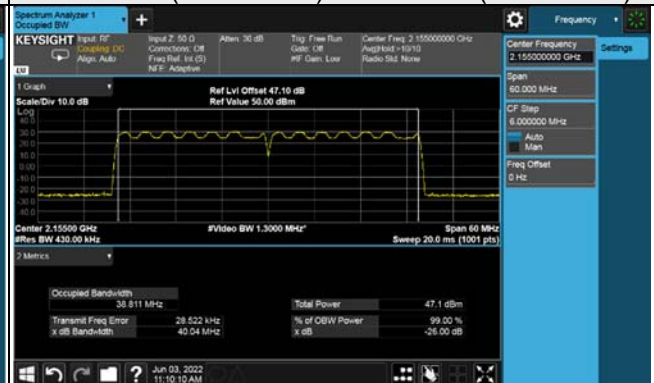


### 16QAM

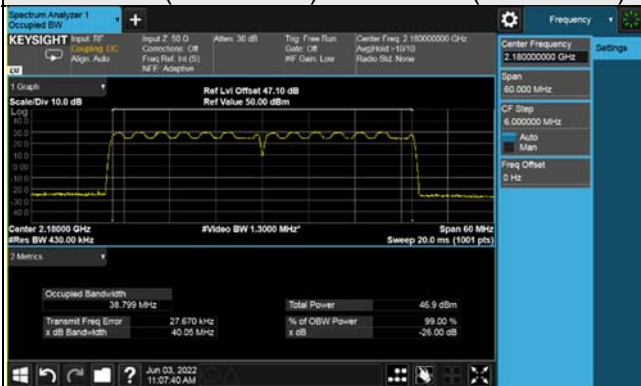
Ch 424000 (2120.0MHz)+Ch 428000 (2140.0MHz)



Ch 429000 (2145.0MHz)+Ch 433000 (2165.0MHz)



Ch 434000 (2170.0MHz)+Ch 438000 (2190.0MHz)



### 64QAM

Ch 424000 (2120.0MHz)+Ch 428000 (2140.0MHz)



Ch 429000 (2145.0MHz)+Ch 433000 (2165.0MHz)



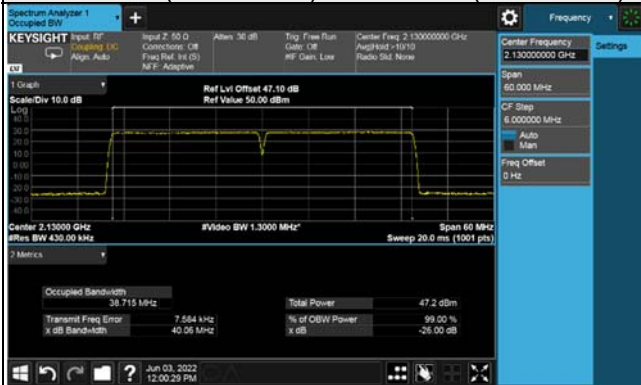
Ch 434000 (2170.0MHz)+Ch 438000 (2190.0MHz)



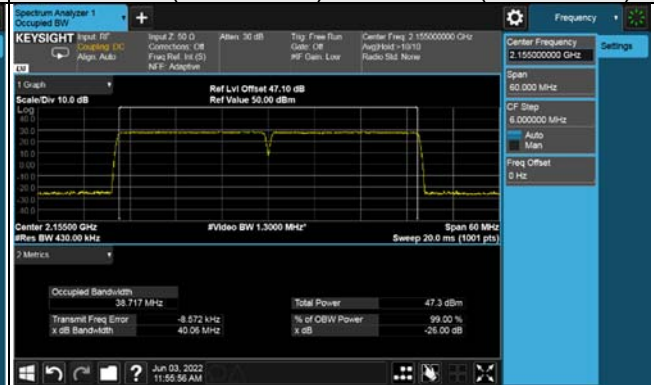


## 256QAM

Ch 424000 (2120.0MHz)+Ch 428000 (2140.0MHz)



Ch 429000 (2145.0MHz)+Ch 433000 (2165.0MHz)



Ch 434000 (2170.0MHz)+Ch 438000 (2190.0MHz)



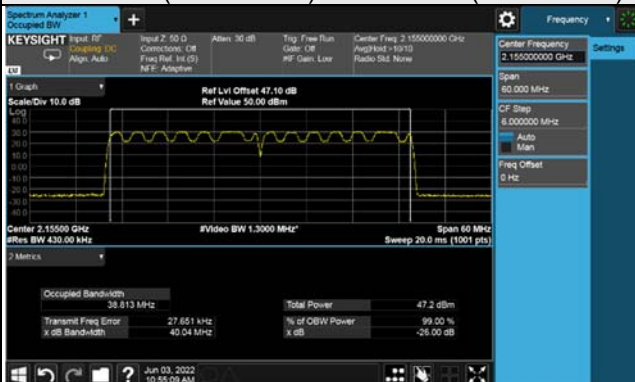
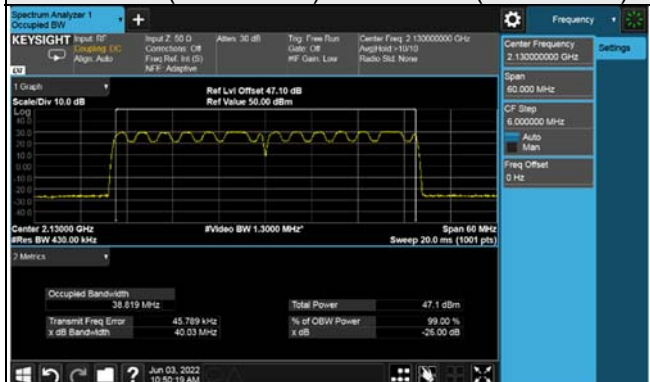
# Ant. TX 3

## OCP 99 Bandwidth

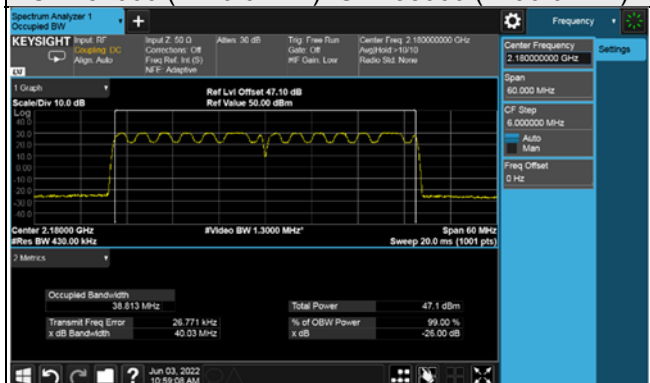
### QPSK

Ch 424000 (2120.0MHz)+Ch 428000 (2140.0MHz)

Ch 429000 (2145.0MHz)+Ch 433000 (2165.0MHz)



Ch 434000 (2170.0MHz)+Ch 438000 (2190.0MHz)

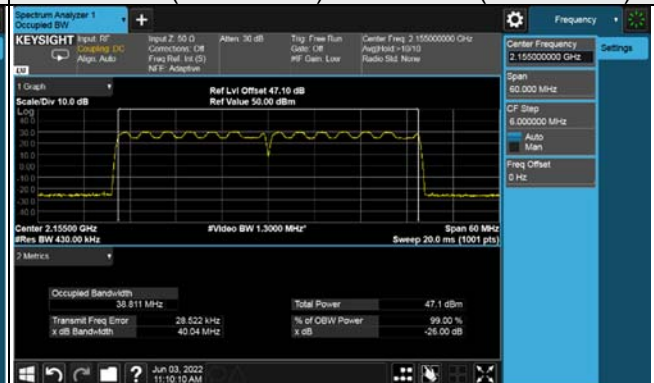


### 16QAM

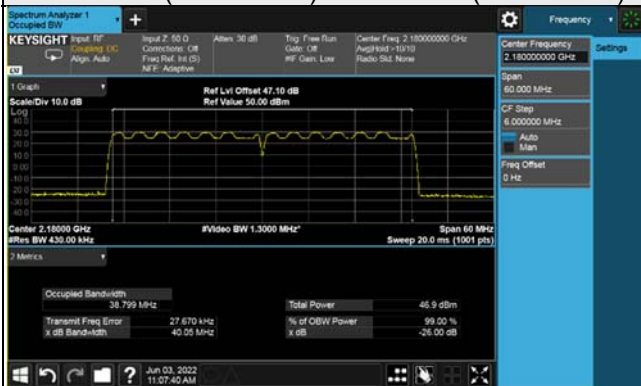
Ch 424000 (2120.0MHz)+Ch 428000 (2140.0MHz)



Ch 429000 (2145.0MHz)+Ch 433000 (2165.0MHz)

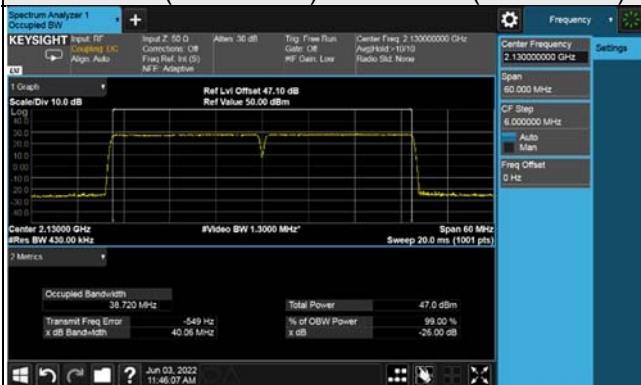


Ch 434000 (2170.0MHz)+Ch 438000 (2190.0MHz)

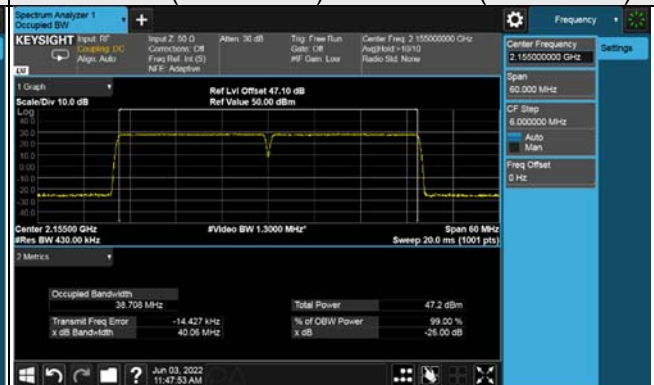


### 64QAM

Ch 424000 (2120.0MHz)+Ch 428000 (2140.0MHz)



Ch 429000 (2145.0MHz)+Ch 433000 (2165.0MHz)



Ch 434000 (2170.0MHz)+Ch 438000 (2190.0MHz)



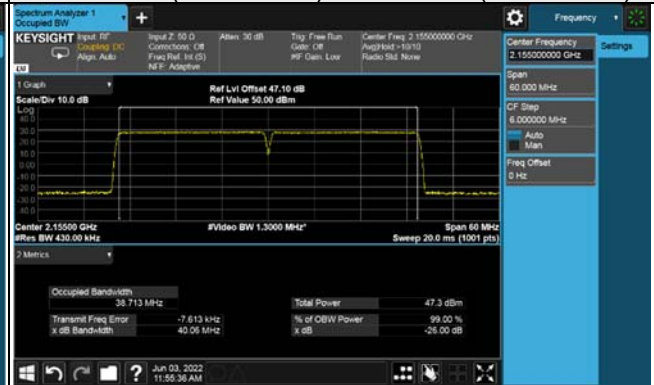


## 256QAM

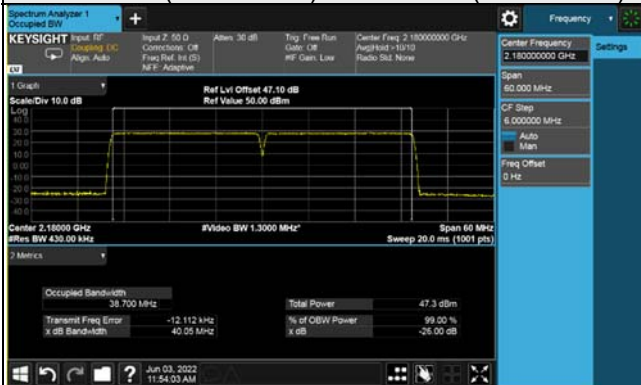
Ch 424000 (2120.0MHz)+Ch 428000 (2140.0MHz)



Ch 429000 (2145.0MHz)+Ch 433000 (2165.0MHz)



Ch 434000 (2170.0MHz)+Ch 438000 (2190.0MHz)



## CA-Non-Contiguous

### 5MHz+5MHz

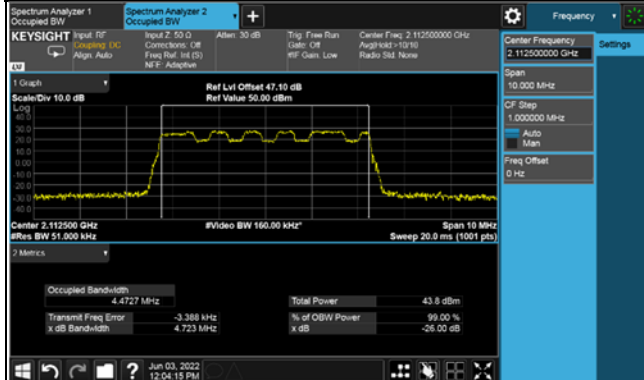
| Channel Number    | Freq. (MHz) | OCP 99 Bandwidth (MHz) |       |       |        |          |       |       |        |          |       |       |        |          |       |       |        |
|-------------------|-------------|------------------------|-------|-------|--------|----------|-------|-------|--------|----------|-------|-------|--------|----------|-------|-------|--------|
|                   |             | Ant. TX0               |       |       |        | Ant. TX1 |       |       |        | Ant. TX2 |       |       |        | Ant. TX3 |       |       |        |
|                   |             | QPSK                   | 16QAM | 64QAM | 256QAM | QPSK     | 16QAM | 64QAM | 256QAM | QPSK     | 16QAM | 64QAM | 256QAM | QPSK     | 16QAM | 64QAM | 256QAM |
| 422500+<br>433500 | 2112.5      | 4.47                   | 4.47  | 4.46  | 4.46   | 4.47     | 4.48  | 4.46  | 4.46   | 4.47     | 4.47  | 4.46  | 4.46   | 4.48     | 4.48  | 4.46  | 4.46   |
|                   | 2167.5      | 4.48                   | 4.48  | 4.47  | 4.46   | 4.48     | 4.48  | 4.47  | 4.46   | 4.48     | 4.47  | 4.47  | 4.46   | 4.48     | 4.48  | 4.47  | 4.46   |
|                   | Total       | 8.95                   | 8.95  | 8.93  | 8.92   | 8.95     | 8.96  | 8.93  | 8.92   | 8.95     | 8.94  | 8.93  | 8.92   | 8.96     | 8.96  | 8.93  | 8.92   |
| 425500+<br>436500 | 2127.5      | 4.48                   | 4.48  | 4.46  | 4.46   | 4.47     | 4.47  | 4.46  | 4.46   | 4.48     | 4.47  | 4.46  | 4.46   | 4.48     | 4.47  | 4.47  | 4.46   |
|                   | 2182.5      | 4.48                   | 4.48  | 4.47  | 4.46   | 4.47     | 4.48  | 4.47  | 4.46   | 4.48     | 4.48  | 4.47  | 4.46   | 4.48     | 4.48  | 4.46  | 4.47   |
|                   | Total       | 8.96                   | 8.96  | 8.93  | 8.92   | 8.94     | 8.95  | 8.93  | 8.92   | 8.96     | 8.95  | 8.93  | 8.92   | 8.96     | 8.95  | 8.93  | 8.93   |
| 428500+<br>439500 | 2142.5      | 4.48                   | 4.47  | 4.46  | 4.45   | 4.48     | 4.47  | 4.46  | 4.46   | 4.48     | 4.47  | 4.46  | 4.46   | 4.48     | 4.47  | 4.46  | 4.46   |
|                   | 2197.5      | 4.48                   | 4.48  | 4.46  | 4.46   | 4.48     | 4.48  | 4.46  | 4.47   | 4.47     | 4.47  | 4.47  | 4.46   | 4.48     | 4.48  | 4.47  | 4.46   |
|                   | Total       | 8.96                   | 8.95  | 8.92  | 8.91   | 8.96     | 8.95  | 8.92  | 8.93   | 8.95     | 8.94  | 8.93  | 8.92   | 8.96     | 8.95  | 8.93  | 8.92   |

Ant. TX 0

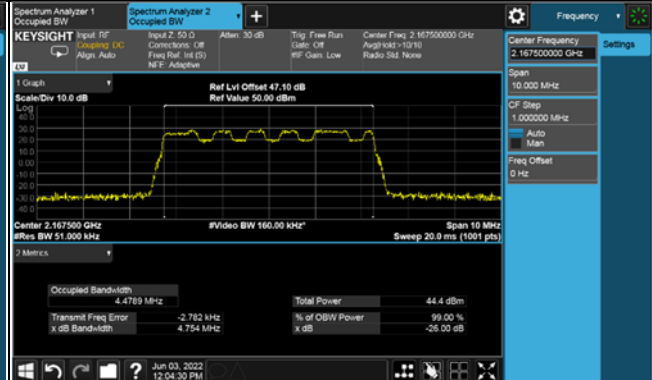
OCP 99 Bandwidth

QPSK

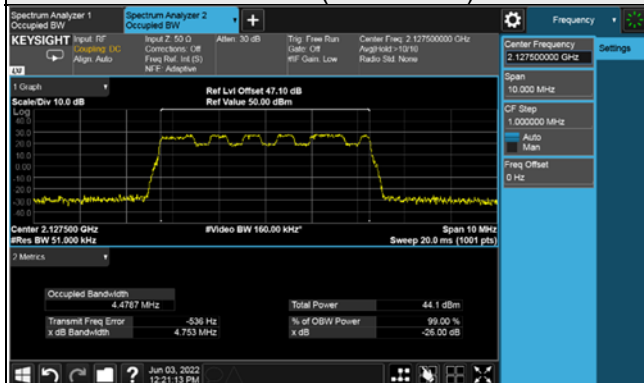
Ch 422500 (2112.5MHz)



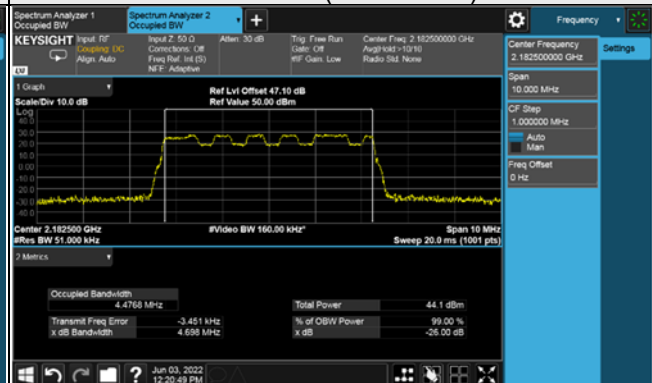
Ch 433500 (2167.5MHz)



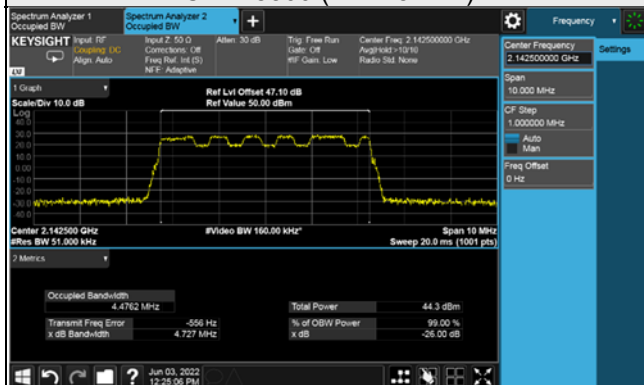
Ch 425500 (2127.5MHz)



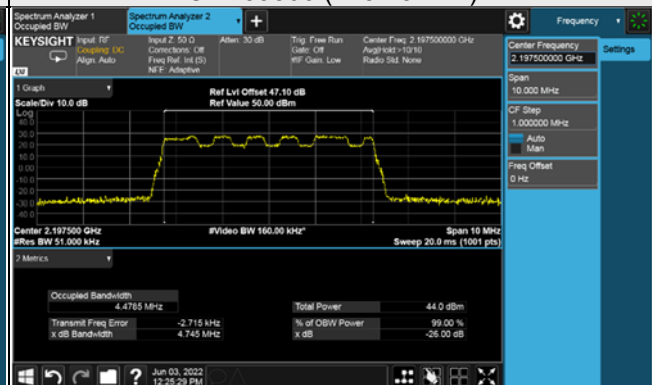
Ch 436500 (2182.5MHz)



Ch 428500 (2142.5MHz)

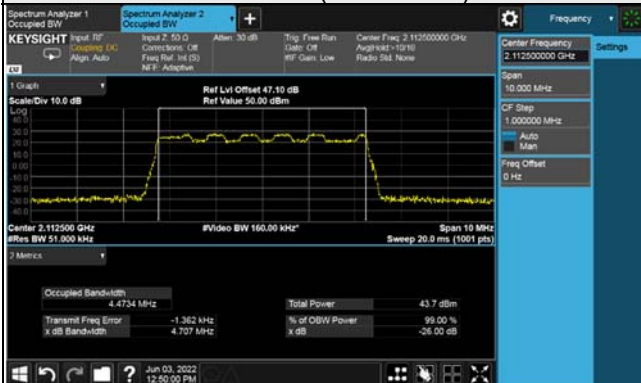


Ch 439500 (2197.5MHz)

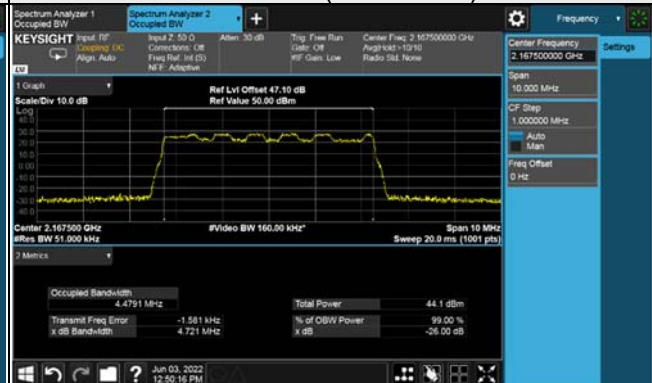


## 16QAM

### Ch 422500 (2112.5MHz)



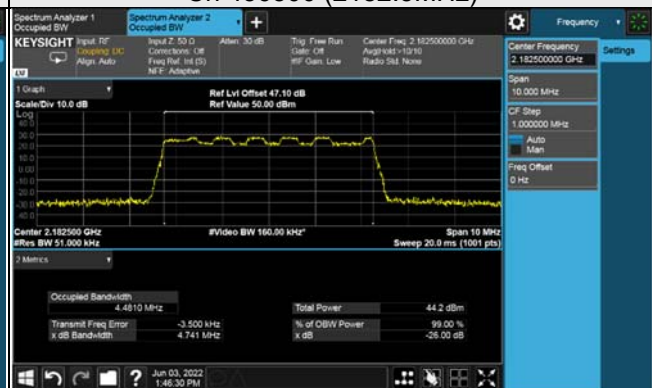
### Ch 433500 (2167.5MHz)



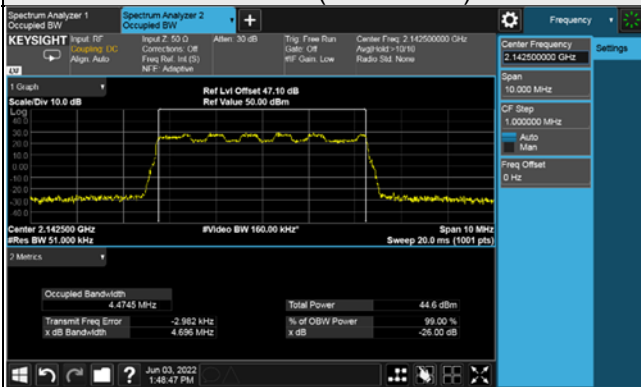
### Ch 425500 (2127.5MHz)



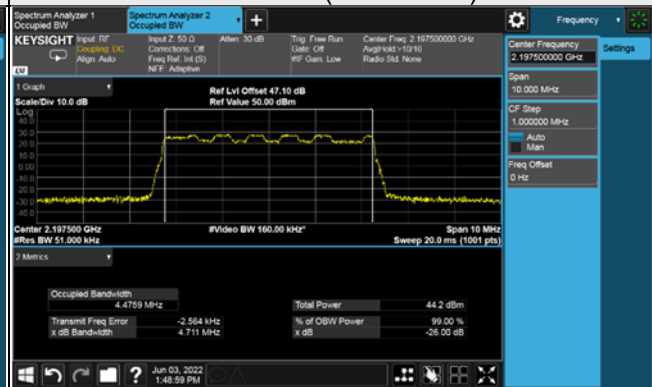
### Ch 436500 (2182.5MHz)



### Ch 428500 (2142.5MHz)

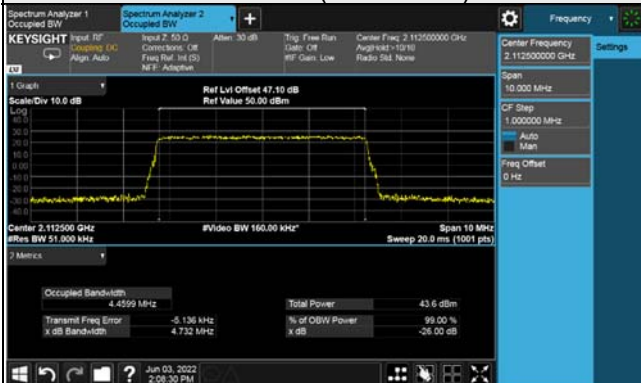


### Ch 439500 (2197.5MHz)

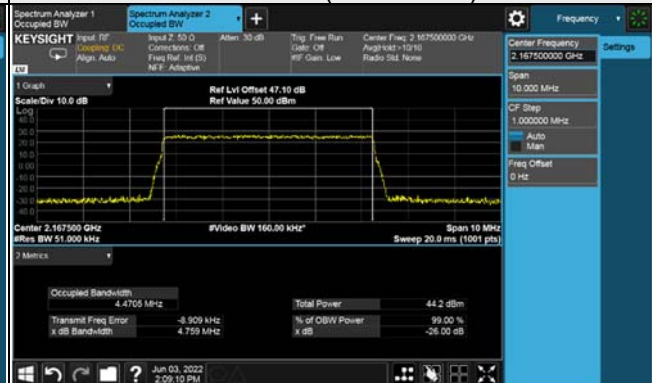


## 64QAM

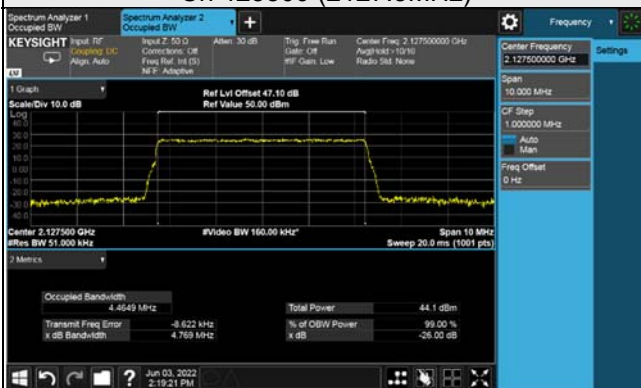
### Ch 422500 (2112.5MHz)



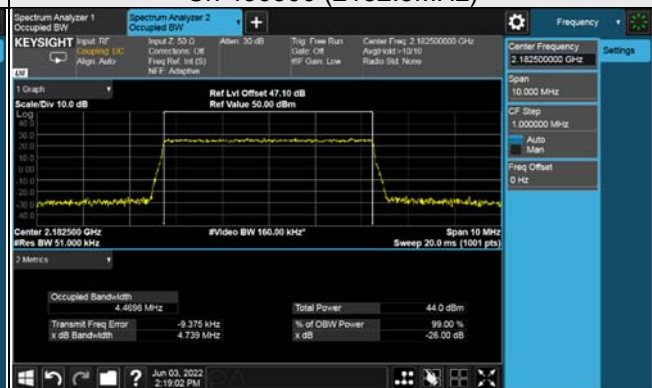
### Ch 433500 (2167.5MHz)



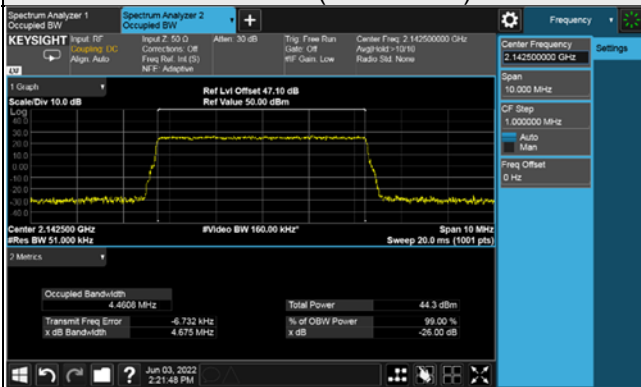
### Ch 425500 (2127.5MHz)



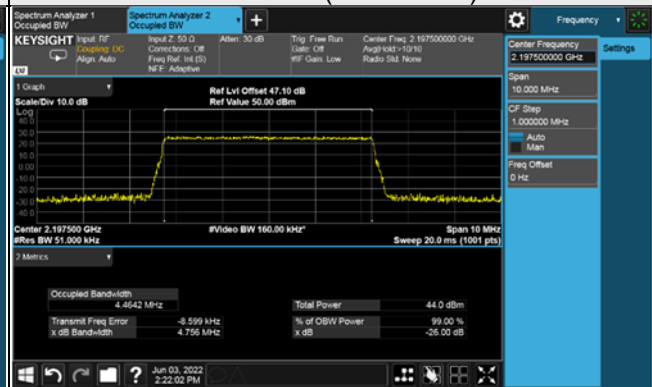
### Ch 436500 (2182.5MHz)



### Ch 428500 (2142.5MHz)



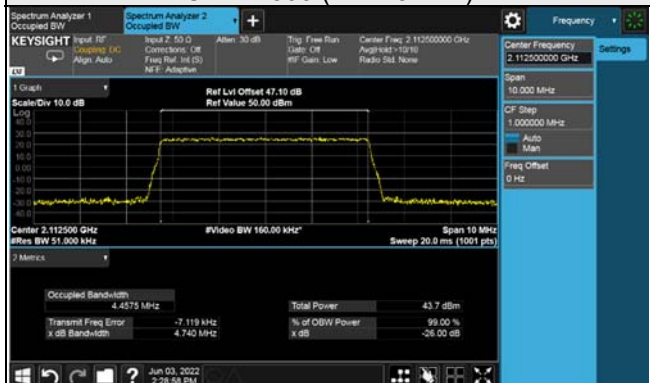
### Ch 439500 (2197.5MHz)



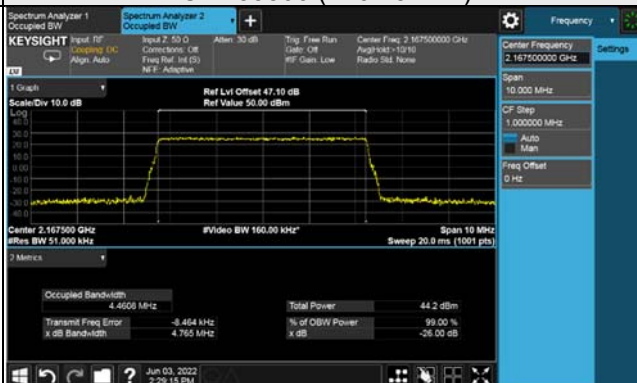


## 256QAM

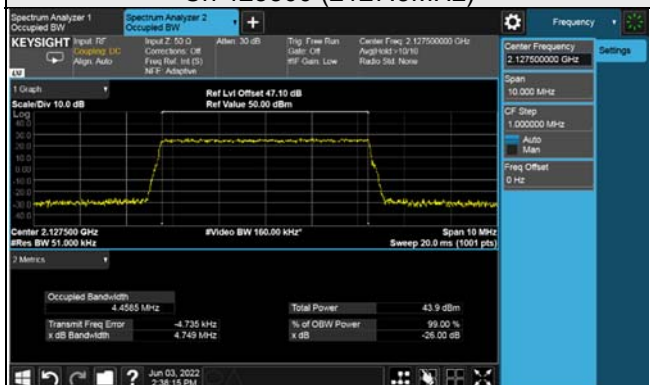
### Ch 422500 (2112.5MHz)



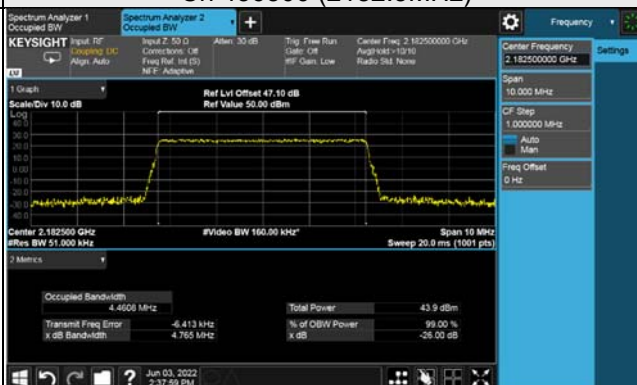
### Ch 433500 (2167.5MHz)



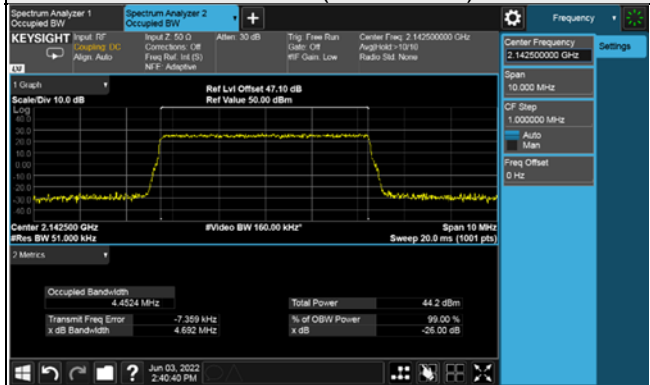
### Ch 425500 (2127.5MHz)



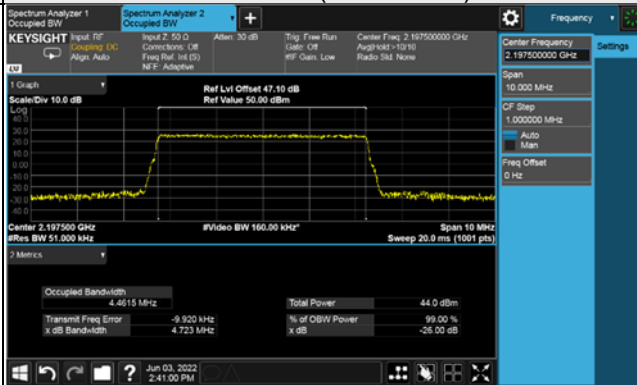
### Ch 436500 (2182.5MHz)



### Ch 428500 (2142.5MHz)



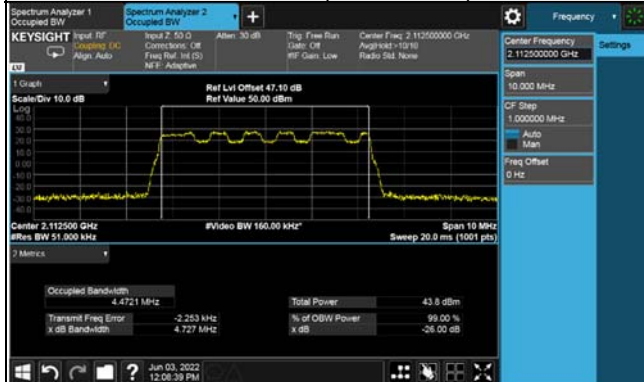
### Ch 439500 (2197.5MHz)



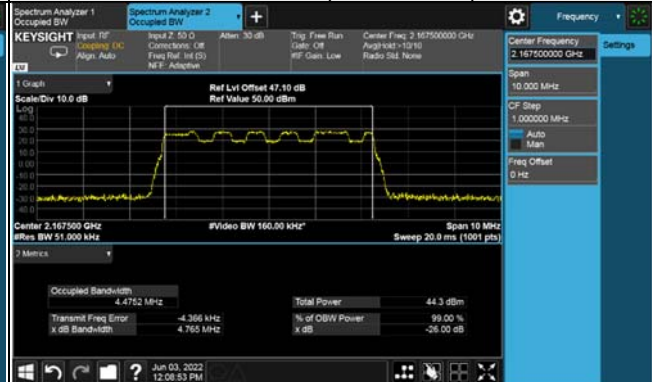
# Ant. TX 1

## OCP 99 Bandwidth QPSK

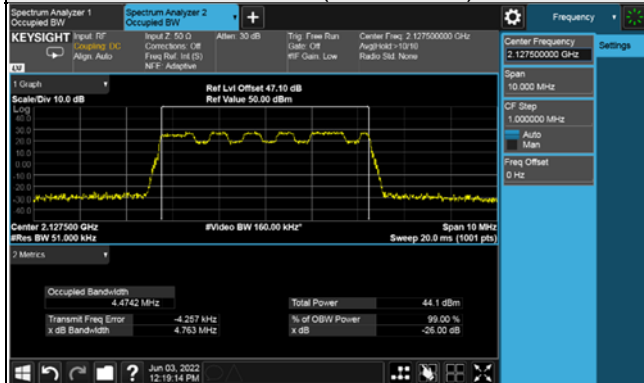
Ch 422500 (2112.5MHz)



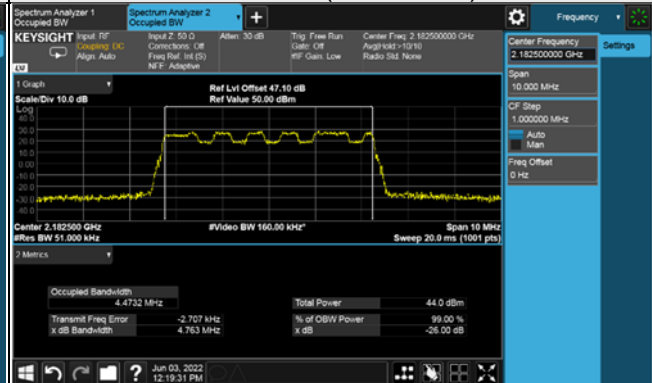
Ch 433500 (2167.5MHz)



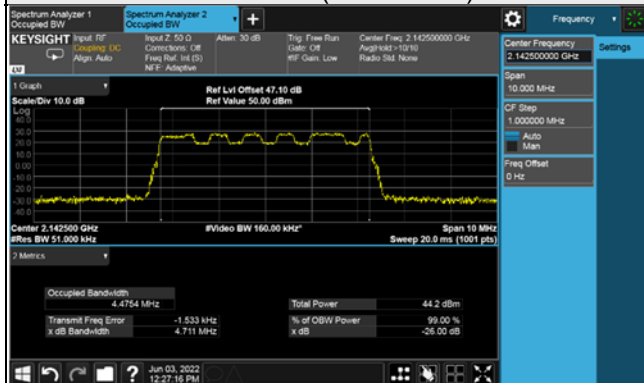
Ch 425500 (2127.5MHz)



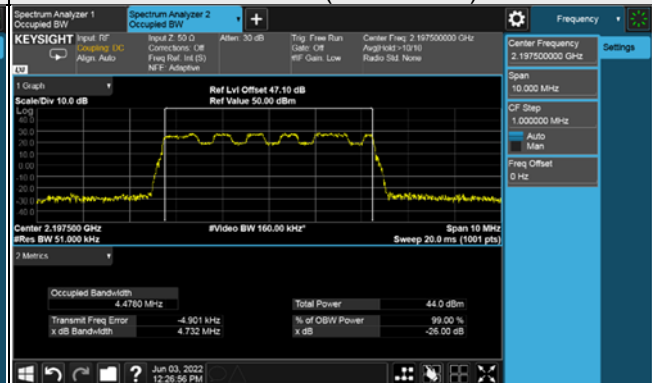
Ch 436500 (2182.5MHz)



Ch 428500 (2142.5MHz)

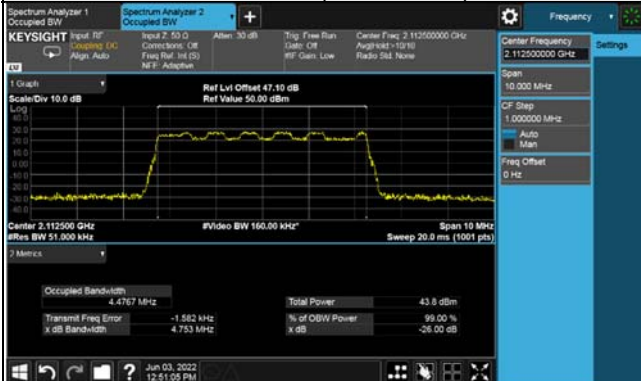


Ch 439500 (2197.5MHz)

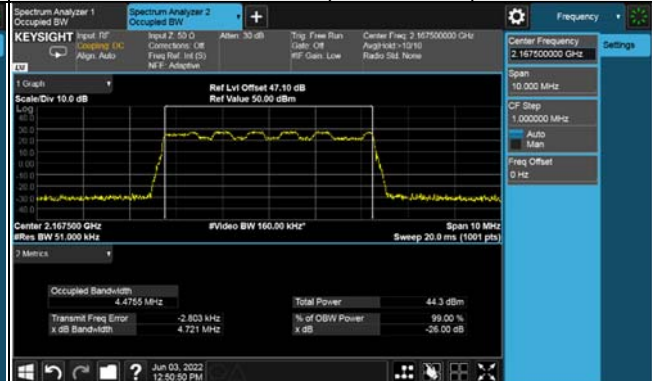


## 16QAM

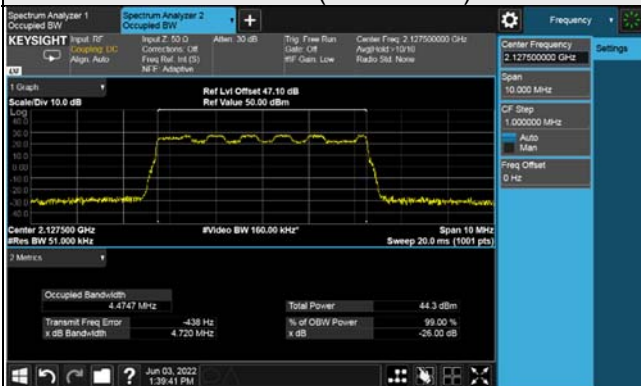
### Ch 422500 (2112.5MHz)



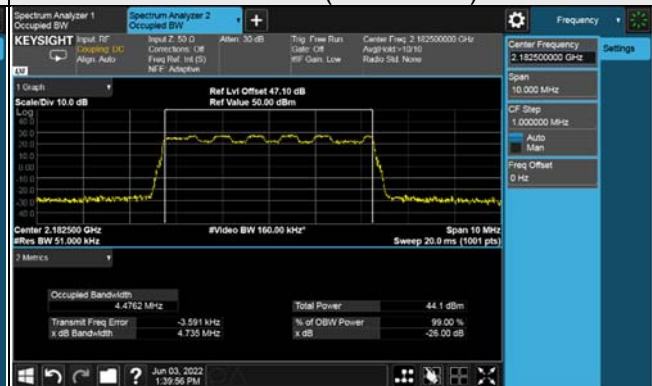
### Ch 433500 (2167.5MHz)



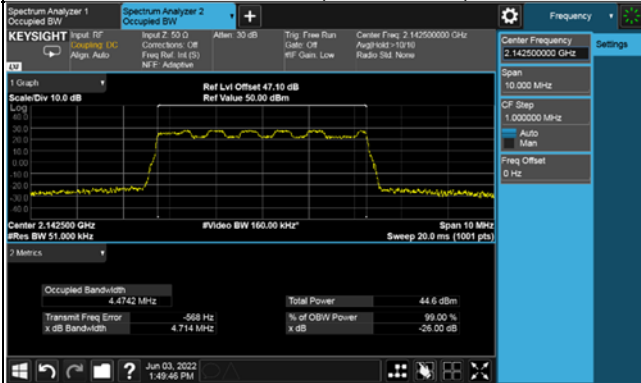
### Ch 425500 (2127.5MHz)



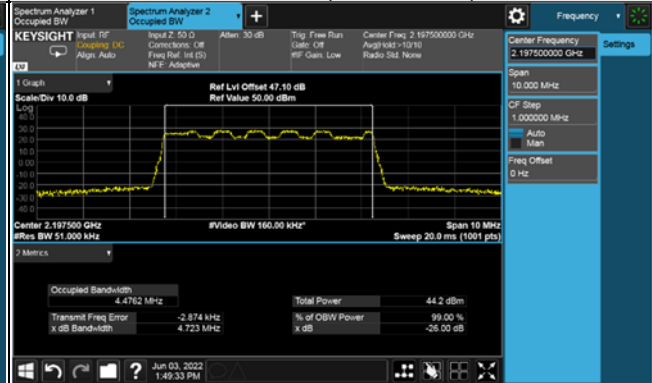
### Ch 436500 (2182.5MHz)



### Ch 428500 (2142.5MHz)

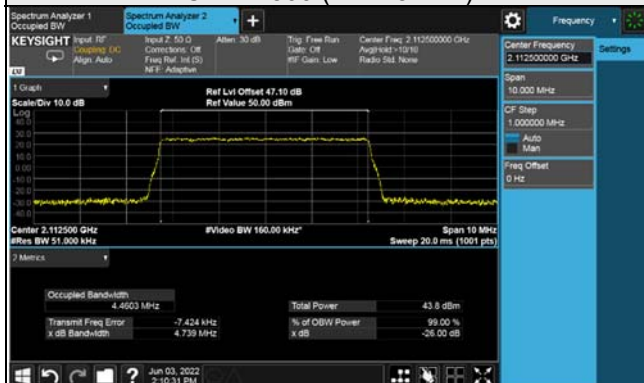


### Ch 439500 (2197.5MHz)

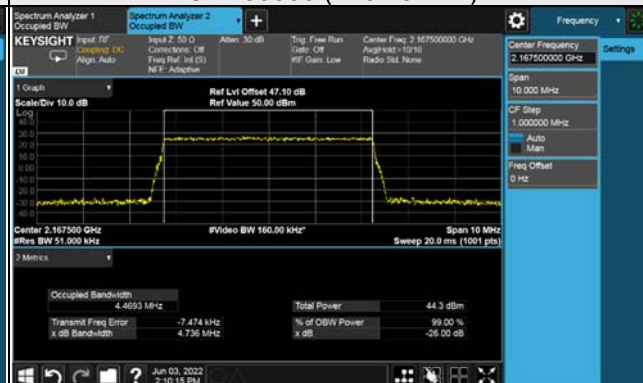


## 64QAM

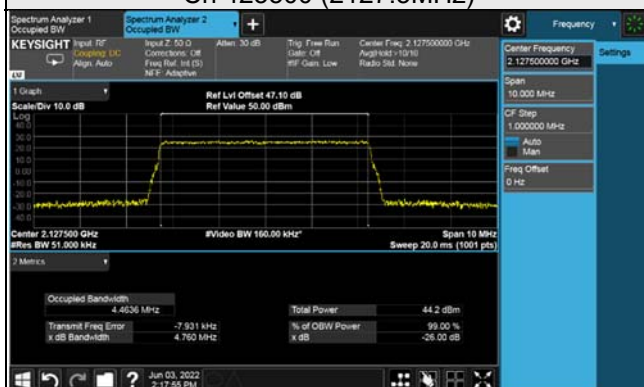
### Ch 422500 (2112.5MHz)



### Ch 433500 (2167.5MHz)



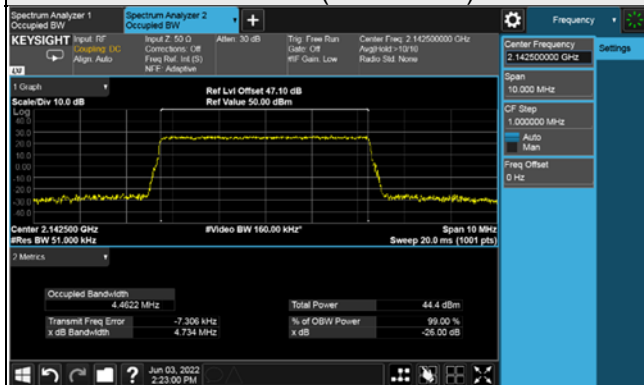
### Ch 425500 (2127.5MHz)



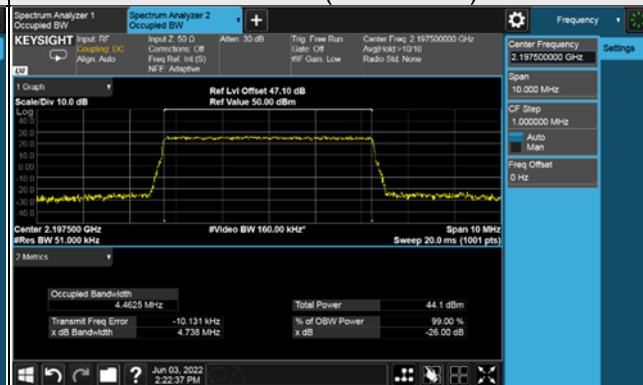
### Ch 436500 (2182.5MHz)



### Ch 428500 (2142.5MHz)



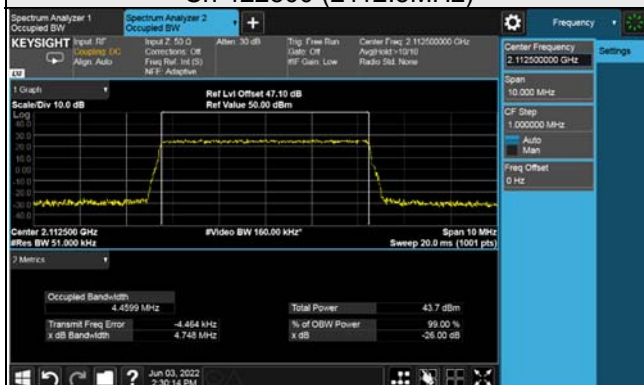
### Ch 439500 (2197.5MHz)



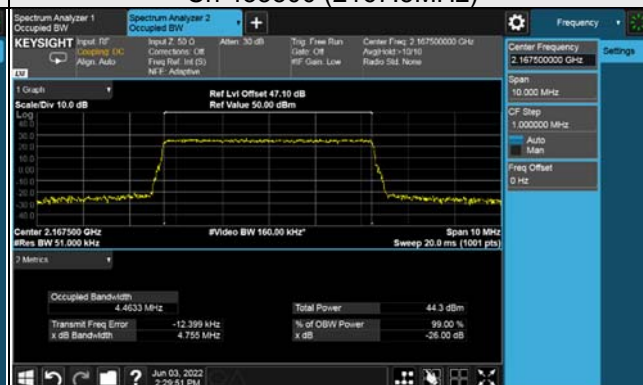


## 256QAM

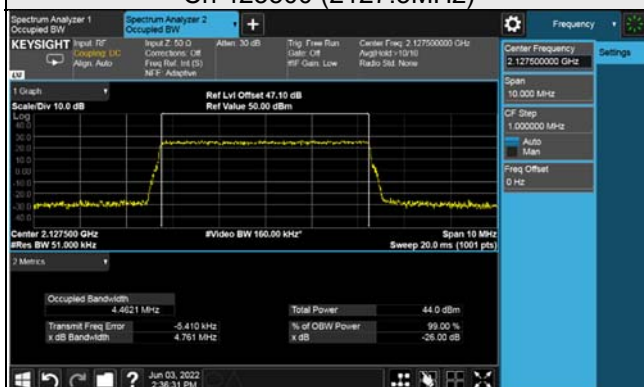
### Ch 422500 (2112.5MHz)



### Ch 433500 (2167.5MHz)



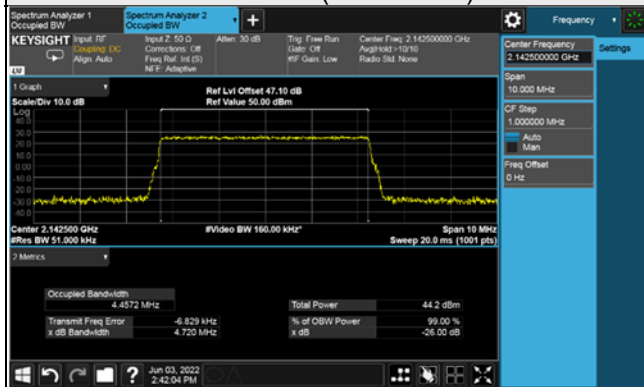
### Ch 425500 (2127.5MHz)



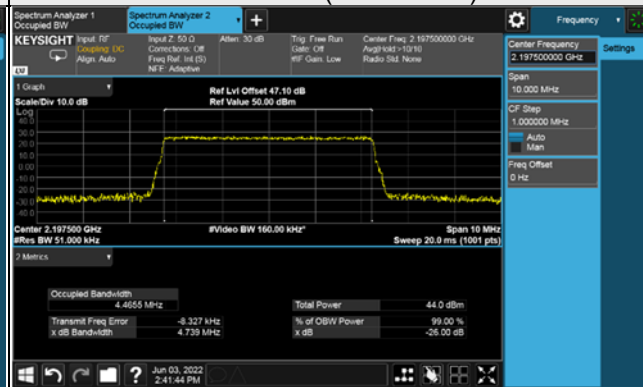
### Ch 436500 (2182.5MHz)



### Ch 428500 (2142.5MHz)



### Ch 439500 (2197.5MHz)



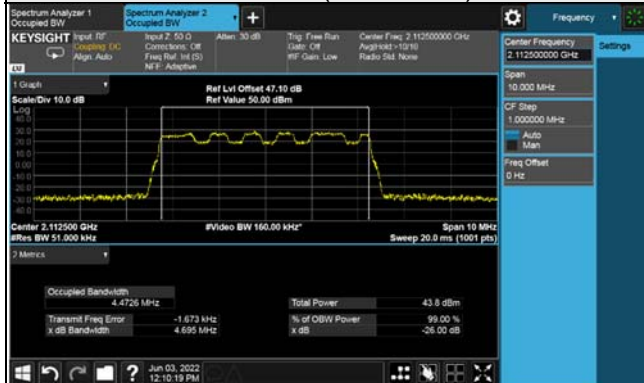


## Ant. TX 2

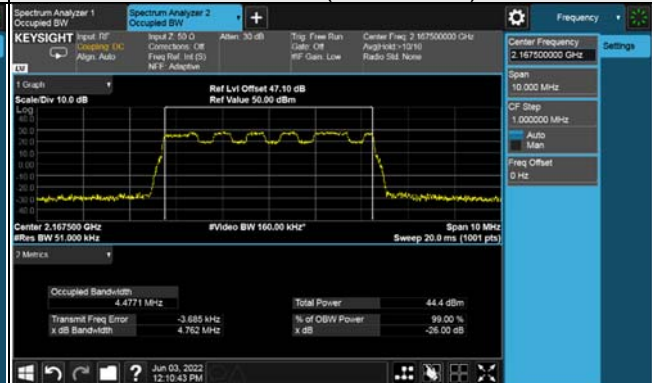
### OCP 99 Bandwidth

### QPSK

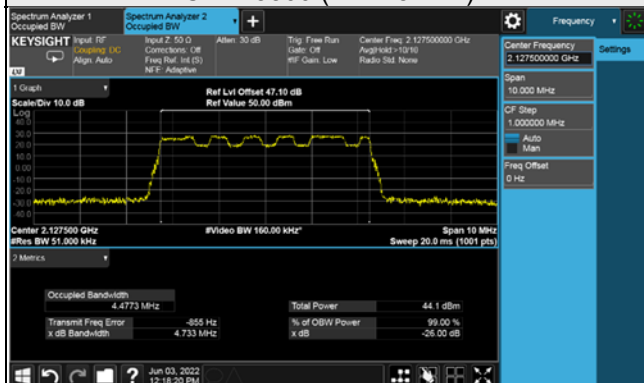
#### Ch 422500 (2112.5MHz)



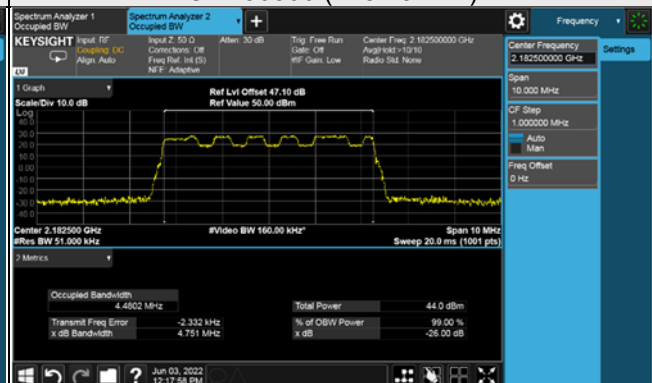
#### Ch 433500 (2167.5MHz)



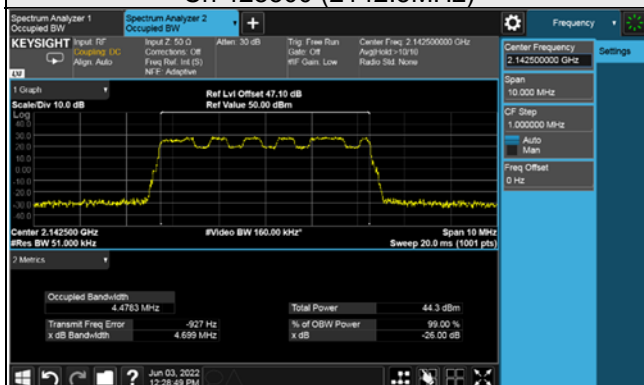
#### Ch 425500 (2127.5MHz)



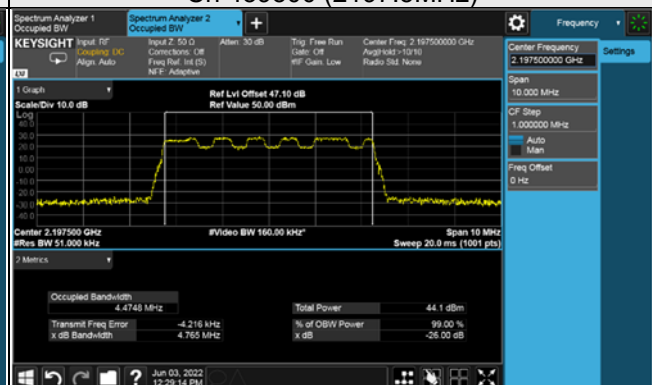
#### Ch 436500 (2182.5MHz)



#### Ch 428500 (2142.5MHz)

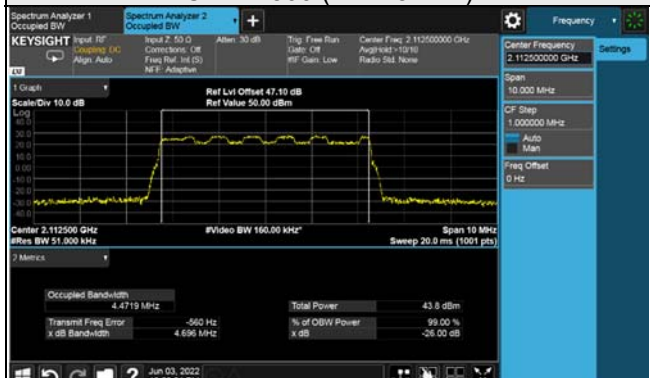


#### Ch 439500 (2197.5MHz)

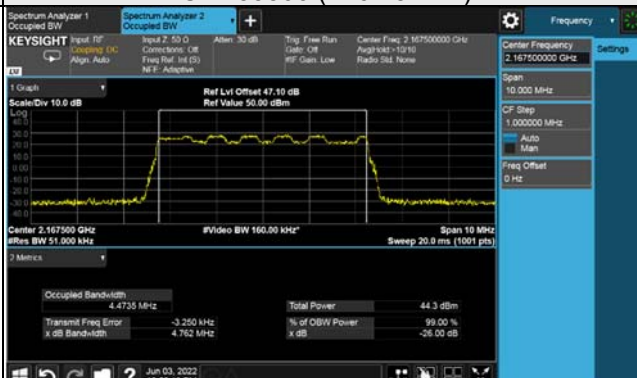


## 16QAM

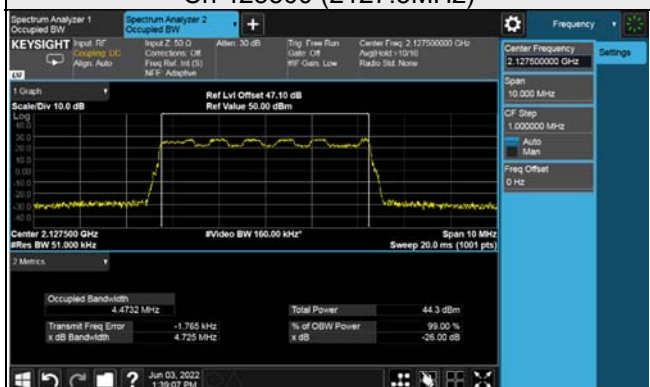
### Ch 422500 (2112.5MHz)



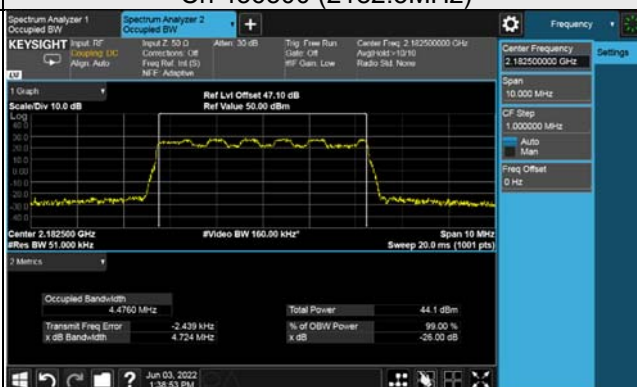
### Ch 433500 (2167.5MHz)



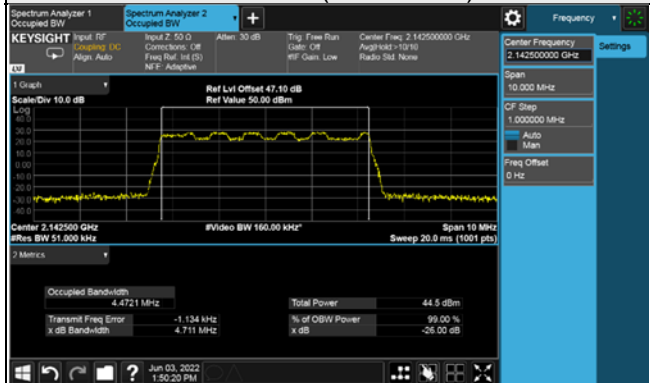
### Ch 425500 (2127.5MHz)



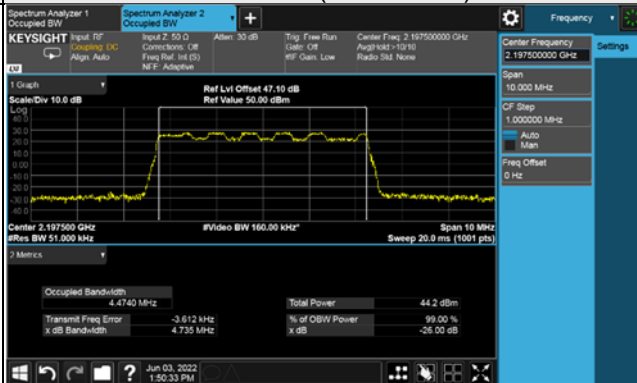
### Ch 436500 (2182.5MHz)



### Ch 428500 (2142.5MHz)

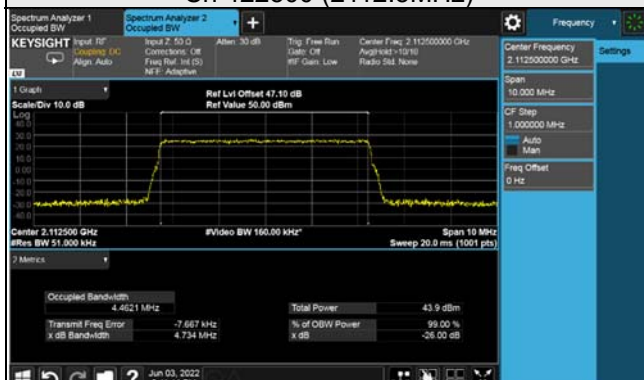


### Ch 439500 (2197.5MHz)

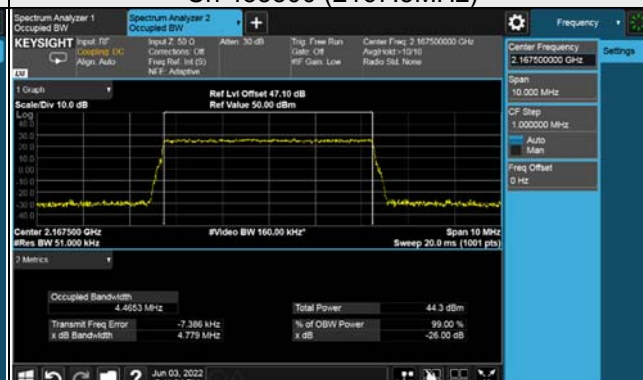


## 64QAM

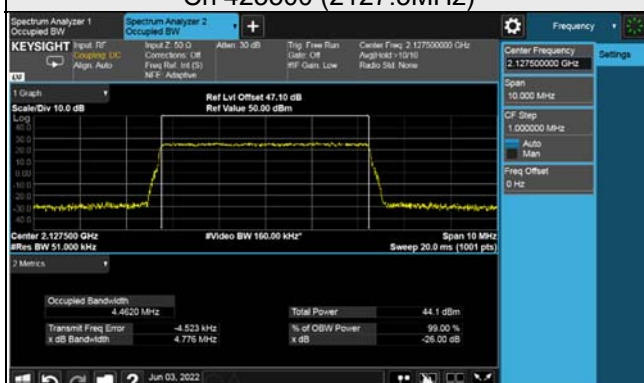
### Ch 422500 (2112.5MHz)



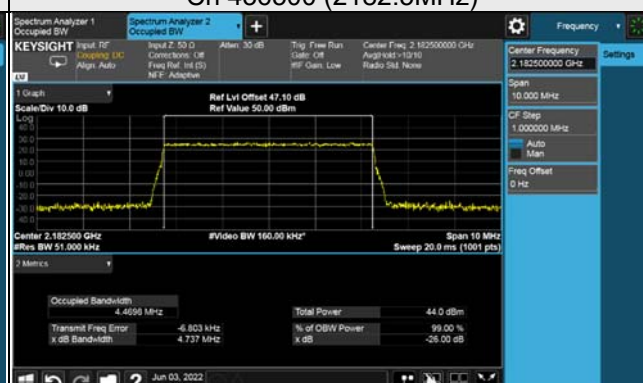
### Ch 433500 (2167.5MHz)



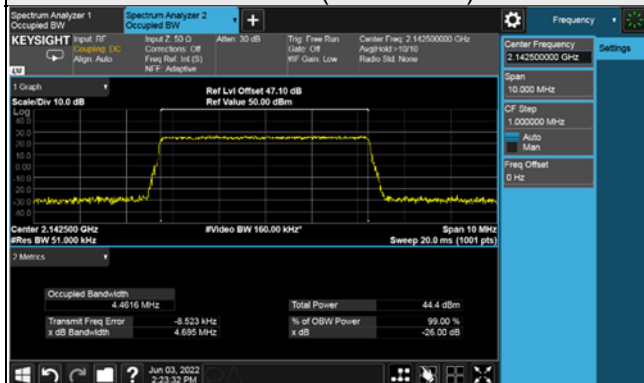
### Ch 425500 (2127.5MHz)



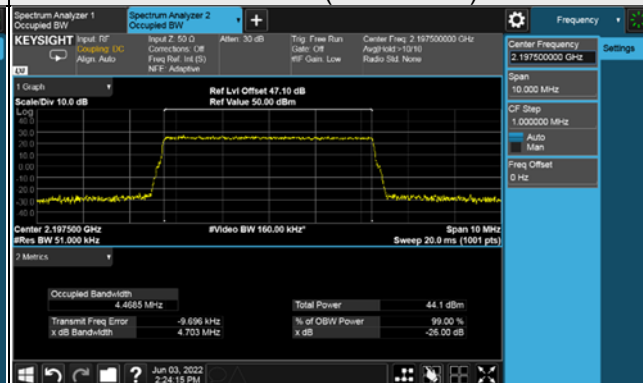
### Ch 436500 (2182.5MHz)



### Ch 428500 (2142.5MHz)

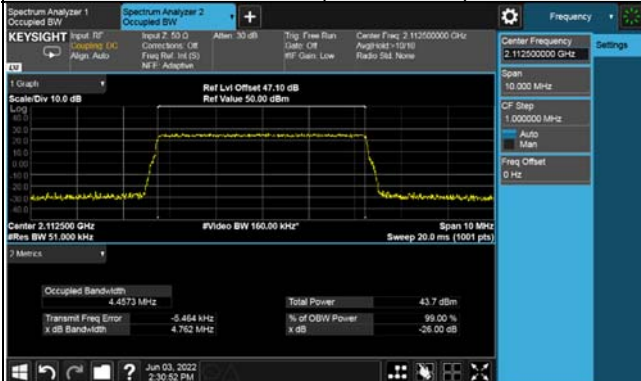


### Ch 439500 (2197.5MHz)

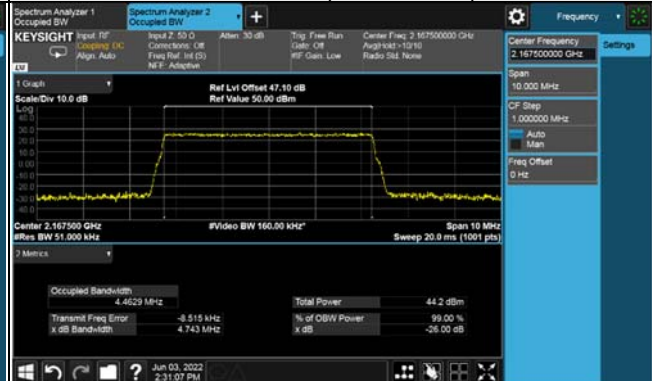


## 256QAM

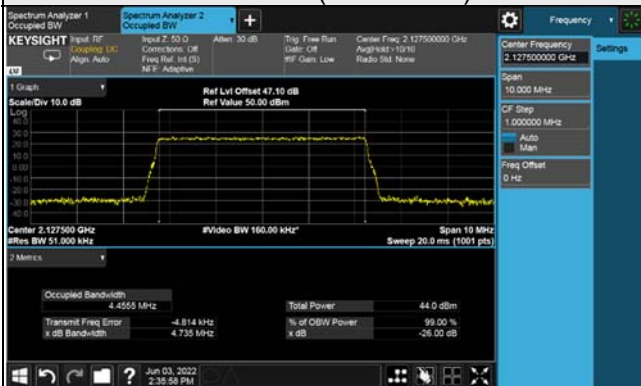
### Ch 422500 (2112.5MHz)



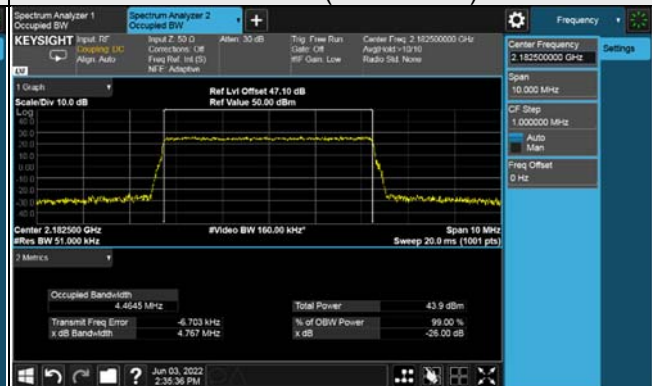
### Ch 433500 (2167.5MHz)



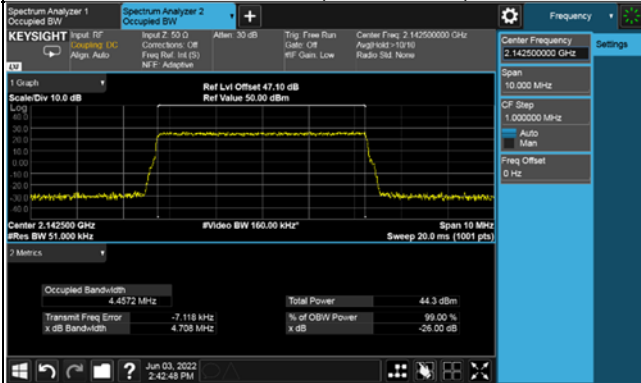
### Ch 425500 (2127.5MHz)



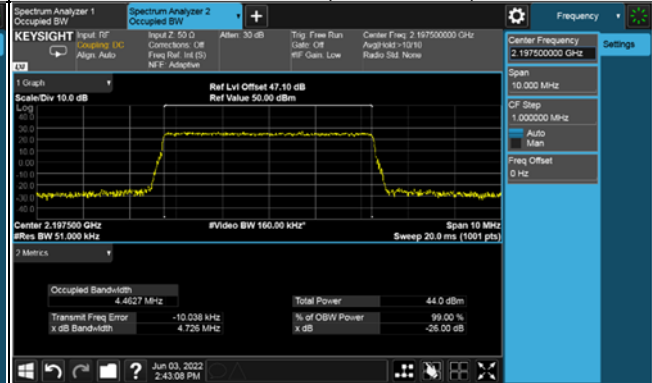
### Ch 436500 (2182.5MHz)



### Ch 428500 (2142.5MHz)



### Ch 439500 (2197.5MHz)

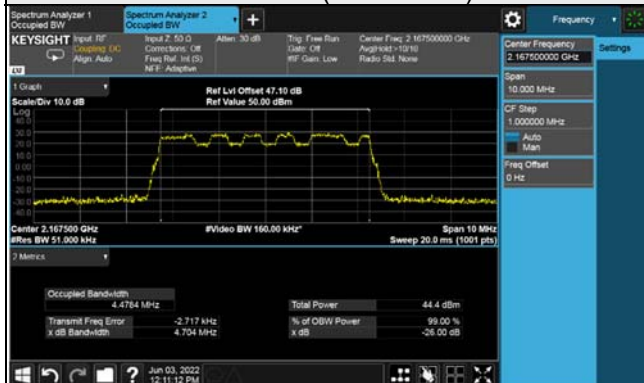




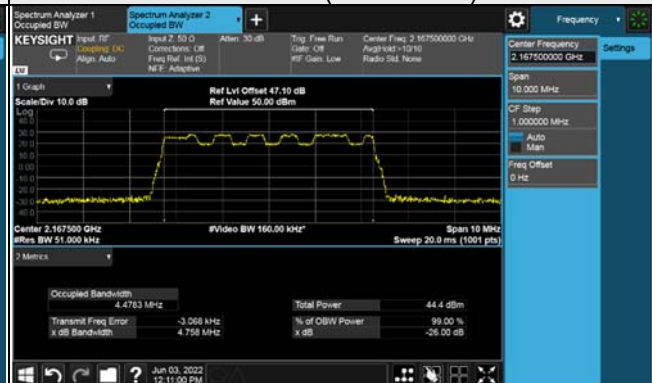
# Ant. TX 3

## OCP 99 Bandwidth QPSK

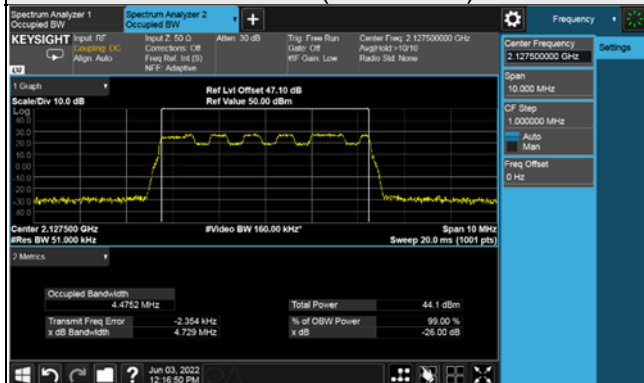
### Ch 422500 (2112.5MHz)



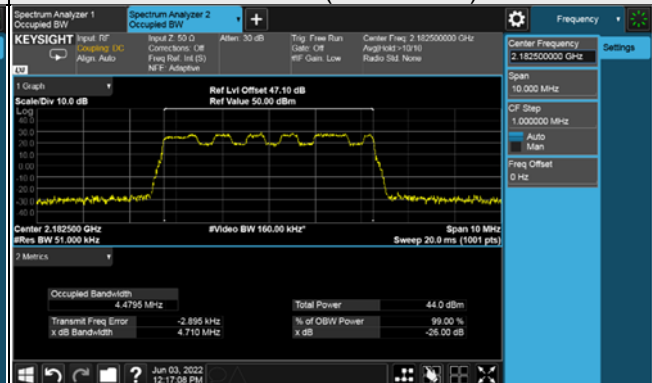
### Ch 433500 (2167.5MHz)



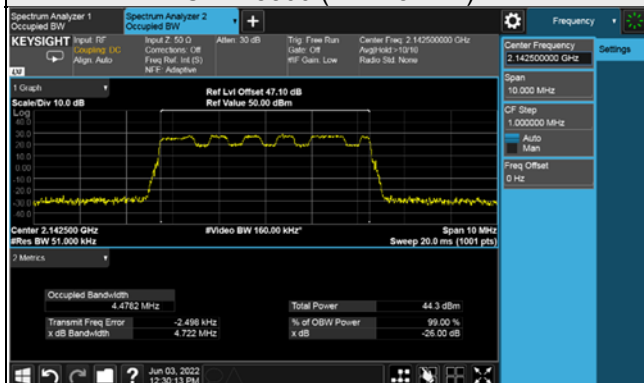
### Ch 425500 (2127.5MHz)



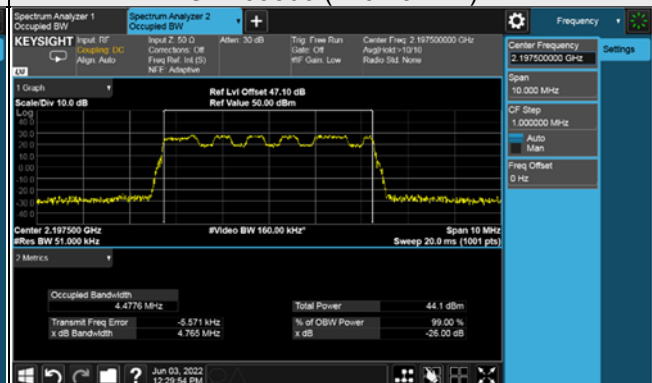
### Ch 436500 (2182.5MHz)



### Ch 428500 (2142.5MHz)

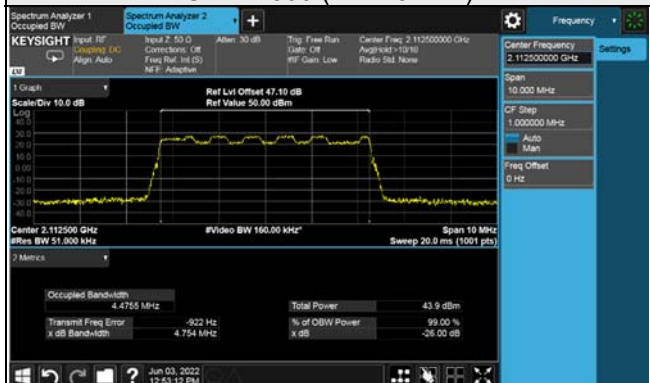


### Ch 439500 (2197.5MHz)

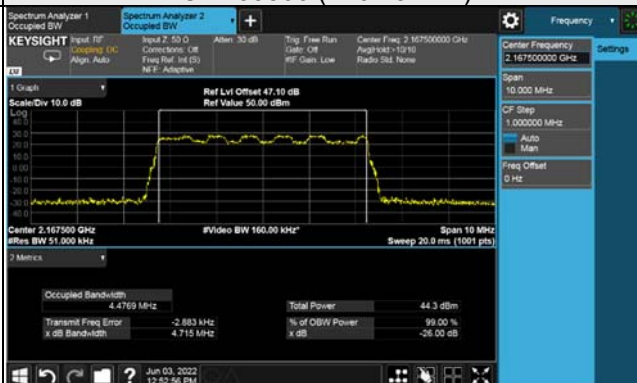


# 16QAM

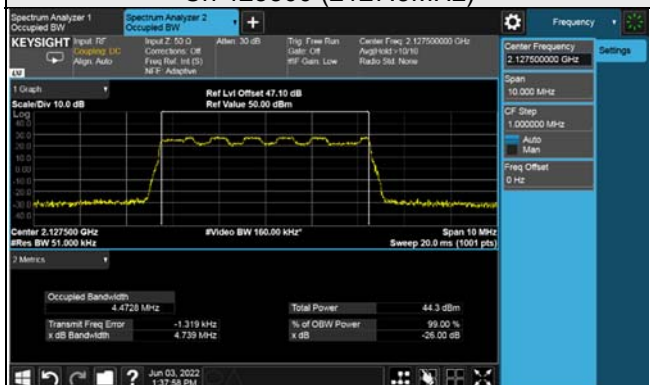
## Ch 422500 (2112.5MHz)



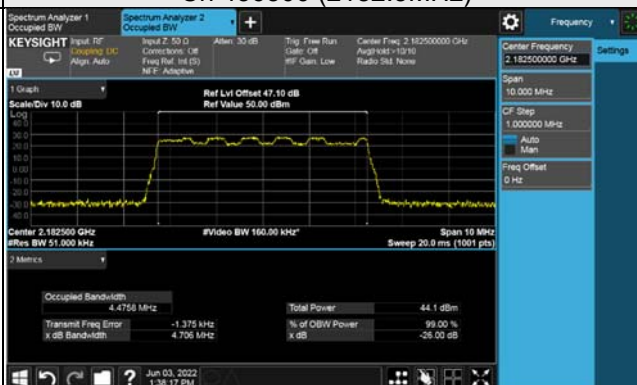
## Ch 433500 (2167.5MHz)



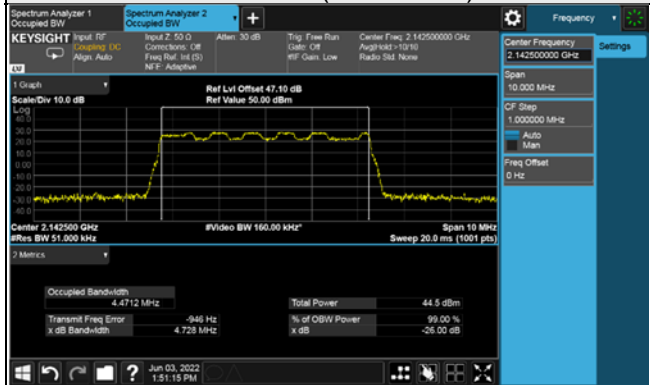
## Ch 425500 (2127.5MHz)



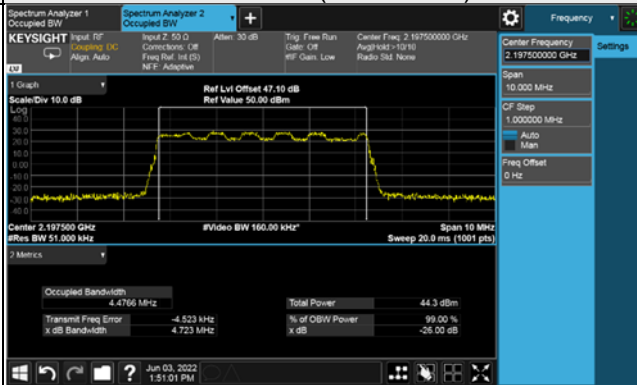
## Ch 436500 (2182.5MHz)



## Ch 428500 (2142.5MHz)

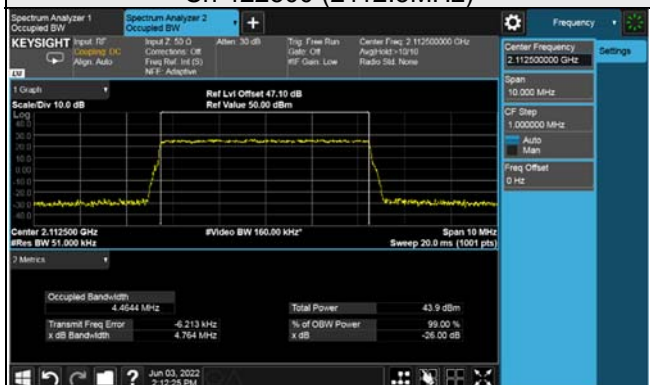


## Ch 439500 (2197.5MHz)

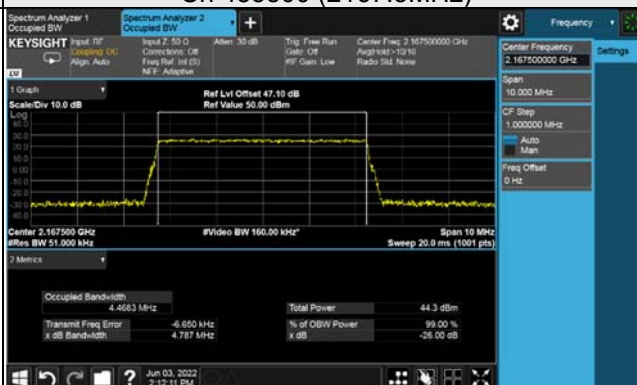


## 64QAM

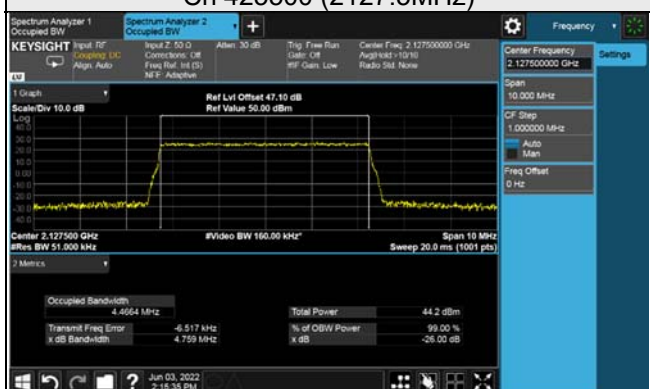
### Ch 422500 (2112.5MHz)



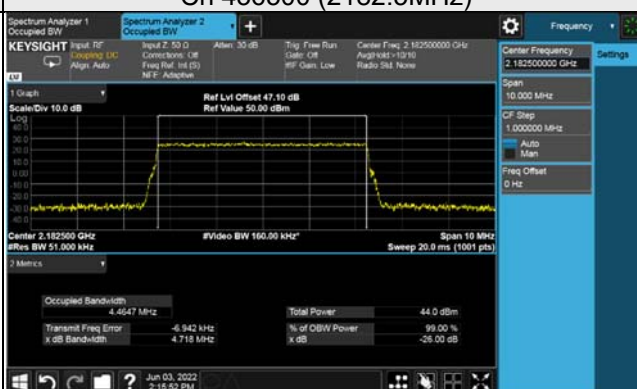
### Ch 433500 (2167.5MHz)



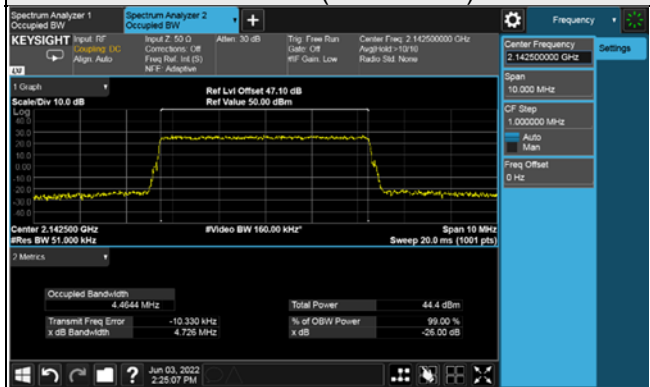
### Ch 425500 (2127.5MHz)



### Ch 436500 (2182.5MHz)



### Ch 428500 (2142.5MHz)



### Ch 439500 (2197.5MHz)

