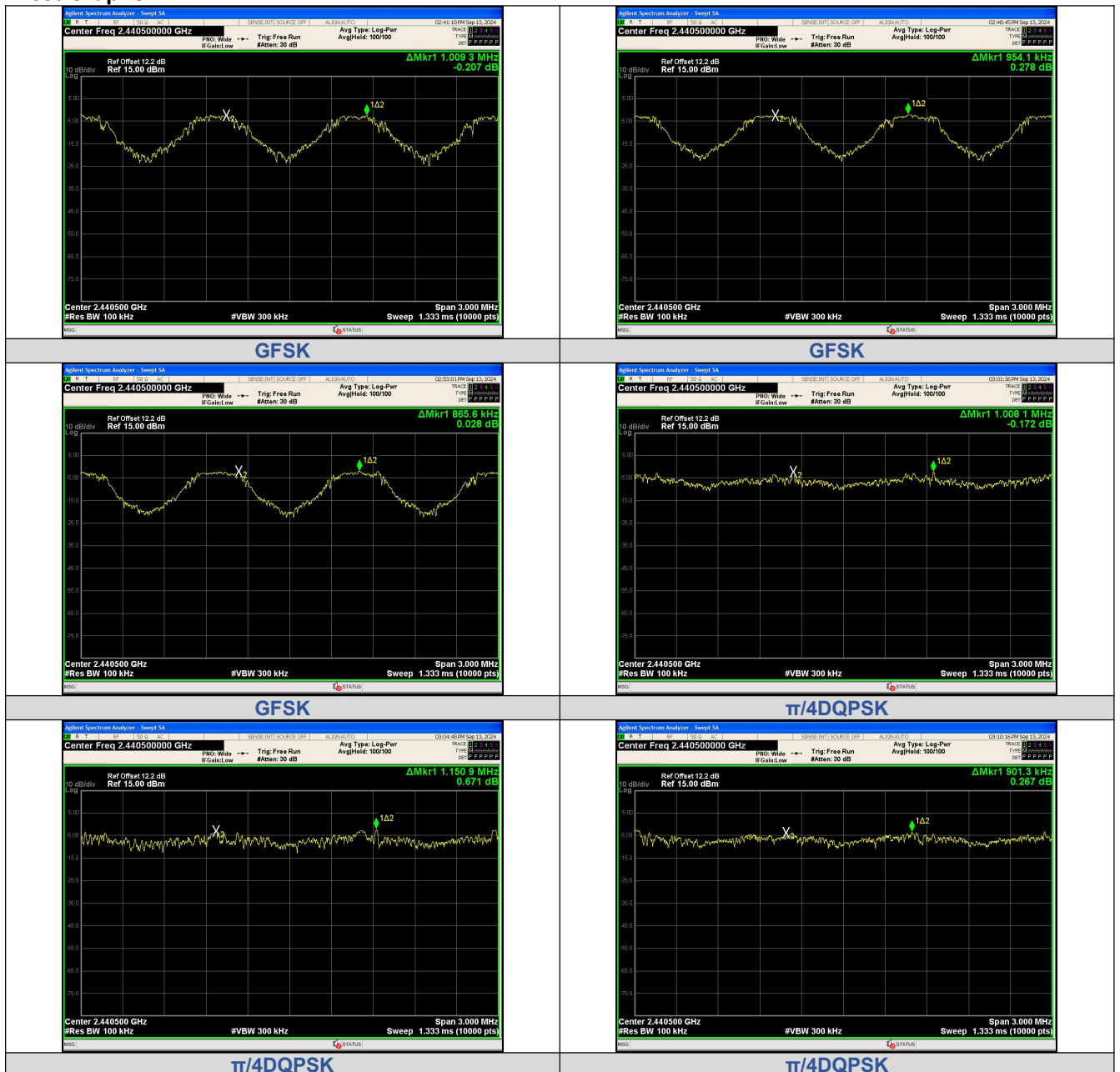


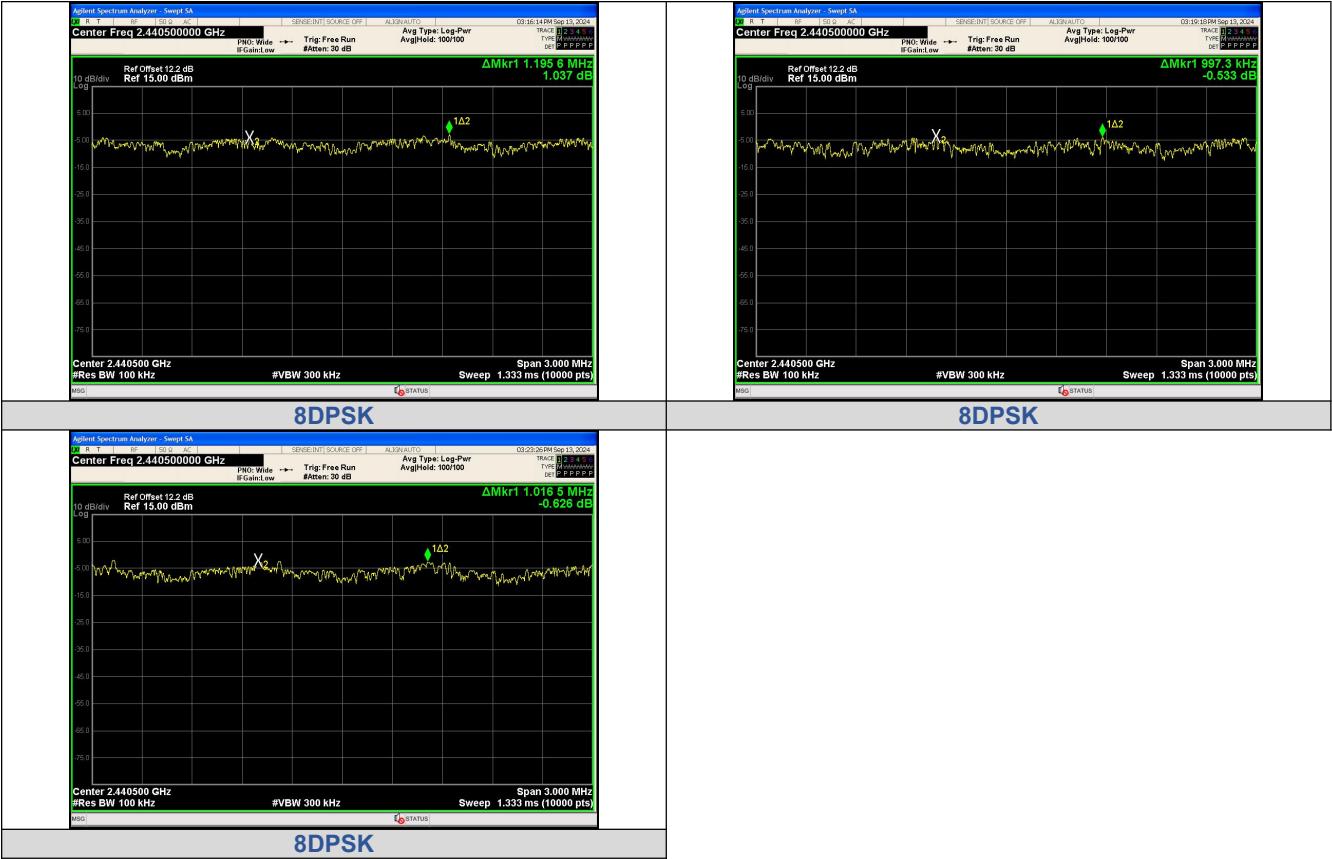
## APPENDIX VII. Carrier Frequencies Separation

### Test Result

| Modulation    | Packet | Left Center frequency (MHz) | Right Center frequency (MHz) | Hopping Frequency Separation (MHz) | Limit (MHz) | Result |
|---------------|--------|-----------------------------|------------------------------|------------------------------------|-------------|--------|
| GFSK          | DH5    | 2440.0438                   | 2441.0531                    | 1.0093                             | 0.627       | PASS   |
| GFSK          | DH5    | 2440.0105                   | 2440.9646                    | 0.9541                             | 0.626       | PASS   |
| GFSK          | DH5    | 2440.1341                   | 2440.9997                    | 0.8656                             | 0.626       | PASS   |
| $\pi/4$ DQPSK | 2-DH5  | 2440.1389                   | 2441.147                     | 1.0081                             | 0.875       | PASS   |
| $\pi/4$ DQPSK | 2-DH5  | 2439.9715                   | 2441.1224                    | 1.1509                             | 0.877       | PASS   |
| $\pi/4$ DQPSK | 2-DH5  | 2440.0894                   | 2440.9907                    | 0.9013                             | 0.875       | PASS   |
| 8DPSK         | 3-DH5  | 2439.9451                   | 2441.1407                    | 1.1956                             | 0.87        | PASS   |
| 8DPSK         | 3-DH5  | 2440.078                    | 2441.0753                    | 0.9973                             | 0.873       | PASS   |
| 8DPSK         | 3-DH5  | 2439.9952                   | 2441.0117                    | 1.0165                             | 0.87        | PASS   |

### Test Graphs





**APPENDIX VIII. Conducted Out Of Band Emission****Test Result****Non-Hopping**

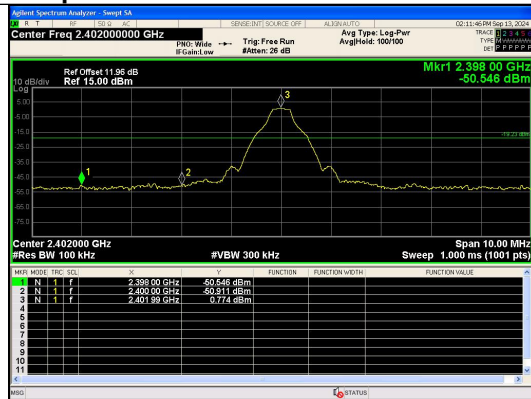
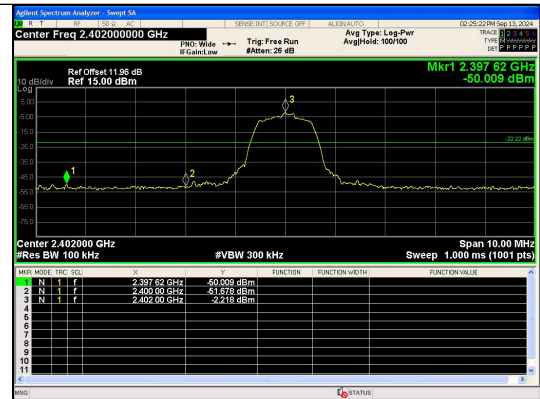
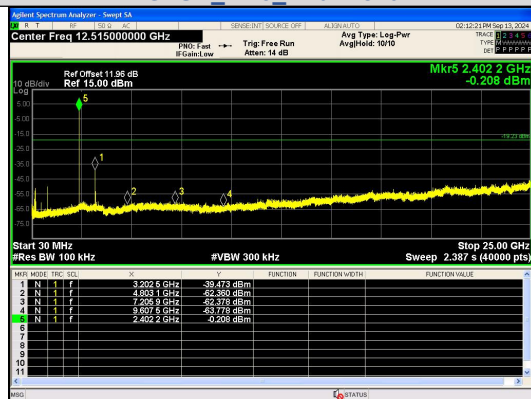
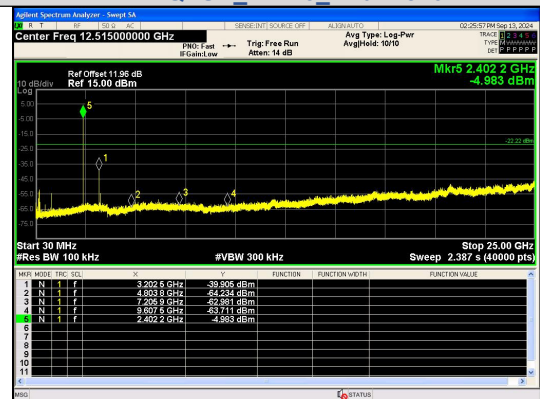
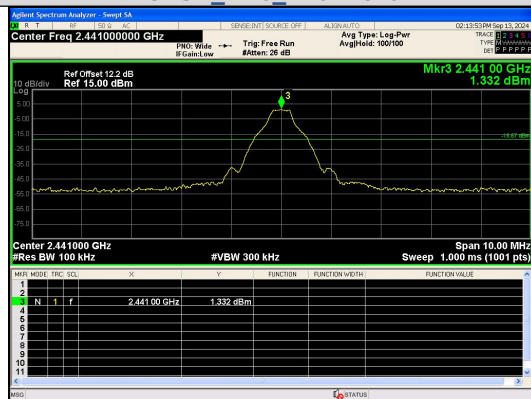
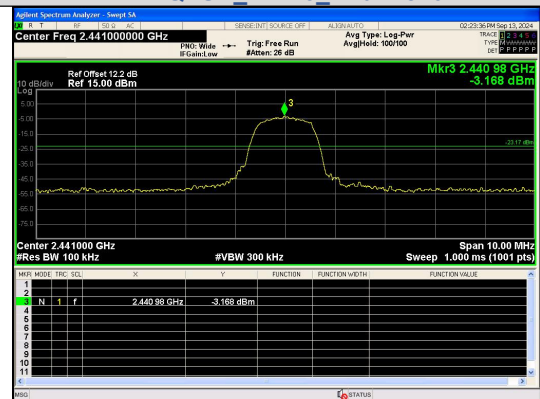
| Modulation    | Packet | Channel | OOB Emission Frequency (MHz) | OOB Emission Level (dBm) | Limit (dBm) | Over Limit (dB) | Result |
|---------------|--------|---------|------------------------------|--------------------------|-------------|-----------------|--------|
| GFSK          | DH5    | 0       | 2398.00                      | -50.545                  | -19.23      | -31.315         | PASS   |
|               |        |         | 2400.00                      | -50.911                  | -19.23      | -31.681         | PASS   |
|               |        |         | 3202.50                      | -39.473                  | -19.23      | -20.243         | PASS   |
|               |        |         | 4803.10                      | -62.360                  | -19.23      | -43.130         | PASS   |
|               |        |         | 7205.90                      | -62.378                  | -19.23      | -43.148         | PASS   |
|               |        |         | 9607.50                      | -63.778                  | -19.23      | -44.548         | PASS   |
|               |        | 39      | 3254.96                      | -39.549                  | -18.67      | -20.879         | PASS   |
|               |        |         | 4881.79                      | -63.420                  | -18.67      | -44.750         | PASS   |
|               |        |         | 7323.92                      | -63.127                  | -18.67      | -44.457         | PASS   |
|               |        |         | 9764.17                      | -62.598                  | -18.67      | -43.928         | PASS   |
|               |        | 78      | 2483.50                      | -51.806                  | -17.41      | -34.396         | PASS   |
|               |        |         | 3306.77                      | -40.317                  | -17.41      | -22.907         | PASS   |
|               |        |         | 4959.83                      | -62.765                  | -17.41      | -45.355         | PASS   |
|               |        |         | 7440.03                      | -62.255                  | -17.41      | -44.845         | PASS   |
|               |        |         | 9920.86                      | -64.067                  | -17.41      | -46.657         | PASS   |
| $\pi/4$ DQPSK | 2-DH5  | 0       | 2397.62                      | -50.009                  | -22.22      | -27.789         | PASS   |
|               |        |         | 2400.00                      | -51.678                  | -22.22      | -29.458         | PASS   |
|               |        |         | 3202.50                      | -39.905                  | -22.22      | -17.685         | PASS   |
|               |        |         | 4803.80                      | -64.234                  | -22.22      | -42.014         | PASS   |
|               |        |         | 7205.90                      | -62.981                  | -22.22      | -40.761         | PASS   |
|               |        |         | 9607.50                      | -63.711                  | -22.22      | -41.491         | PASS   |
|               |        | 39      | 3254.96                      | -40.144                  | -23.17      | -16.974         | PASS   |
|               |        |         | 4881.79                      | -63.952                  | -23.17      | -40.782         | PASS   |
|               |        |         | 7322.05                      | -62.974                  | -23.17      | -39.804         | PASS   |
|               |        |         | 9764.17                      | -63.283                  | -23.17      | -40.113         | PASS   |
|               |        | 78      | 2483.50                      | -51.946                  | -20.87      | -31.076         | PASS   |
|               |        |         | 3306.77                      | -40.806                  | -20.87      | -19.936         | PASS   |
|               |        |         | 4960.45                      | -62.938                  | -20.87      | -42.067         | PASS   |
|               |        |         | 7440.66                      | -61.105                  | -20.87      | -40.235         | PASS   |
|               |        |         | 9920.24                      | -62.228                  | -20.87      | -41.358         | PASS   |
| 8DPSK         | 3-DH5  | 0       | 2398.58                      | -51.074                  | -22.26      | -28.814         | PASS   |
|               |        |         | 2400.00                      | -51.850                  | -22.26      | -29.590         | PASS   |
|               |        |         | 3202.50                      | -40.076                  | -22.26      | -17.816         | PASS   |
|               |        |         | 4803.10                      | -64.508                  | -22.26      | -42.248         | PASS   |
|               |        |         | 7205.30                      | -62.205                  | -22.26      | -39.945         | PASS   |
|               |        |         | 9607.50                      | -63.646                  | -22.26      | -41.386         | PASS   |
|               |        | 39      | 3254.96                      | -39.967                  | -23.16      | -16.807         | PASS   |
|               |        |         | 4881.17                      | -63.167                  | -23.16      | -40.007         | PASS   |
|               |        |         | 7322.67                      | -62.553                  | -23.16      | -39.393         | PASS   |
|               |        |         | 9764.80                      | -61.973                  | -23.16      | -38.813         | PASS   |
|               |        | 78      | 2483.50                      | -50.923                  | -20.59      | -30.333         | PASS   |
|               |        |         | 3306.77                      | -40.919                  | -20.59      | -20.329         | PASS   |
|               |        |         | 4959.83                      | -62.642                  | -20.59      | -42.052         | PASS   |
|               |        |         | 7439.41                      | -62.431                  | -20.59      | -41.841         | PASS   |
|               |        |         | 9920.24                      | -63.925                  | -20.59      | -43.335         | PASS   |

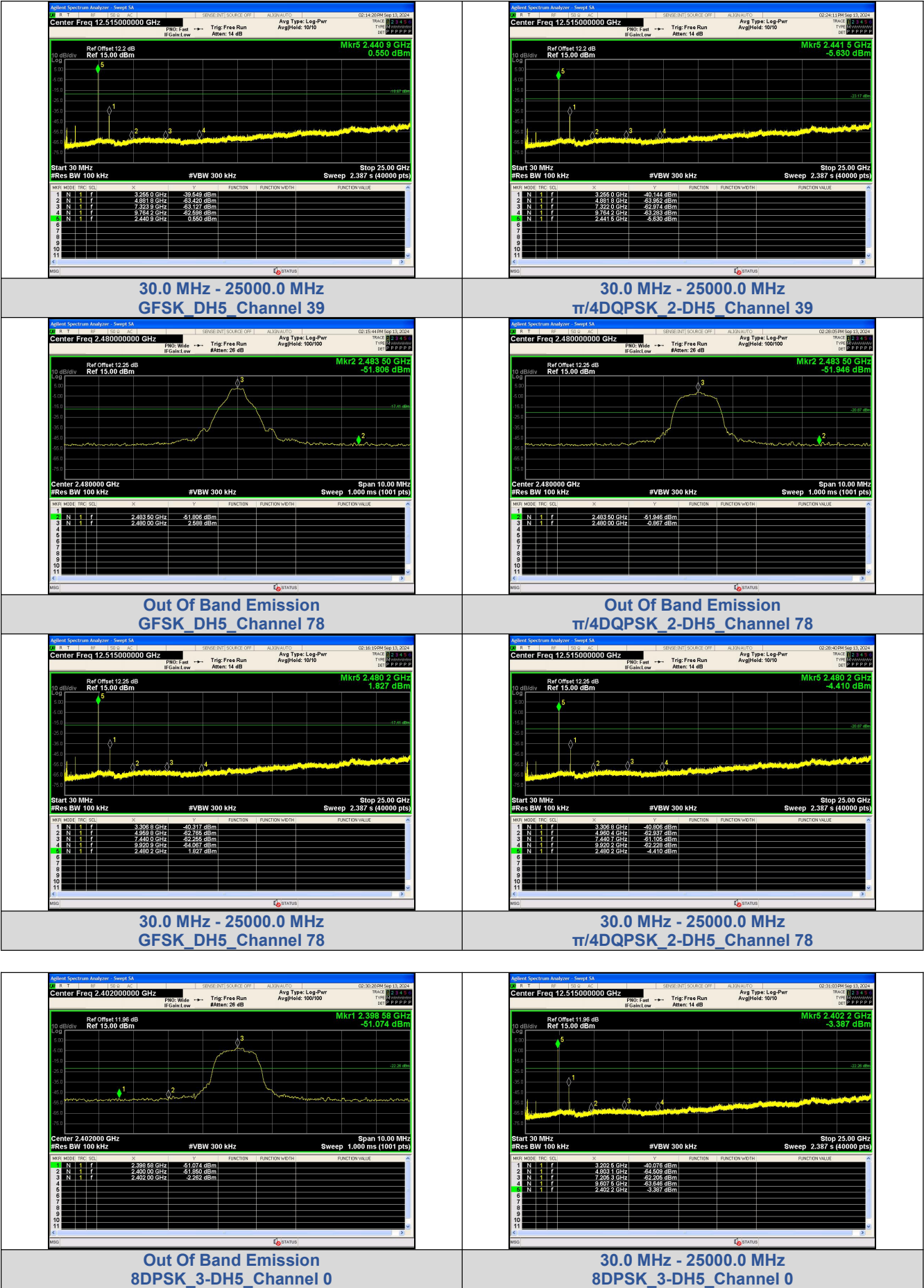
**Hopping**

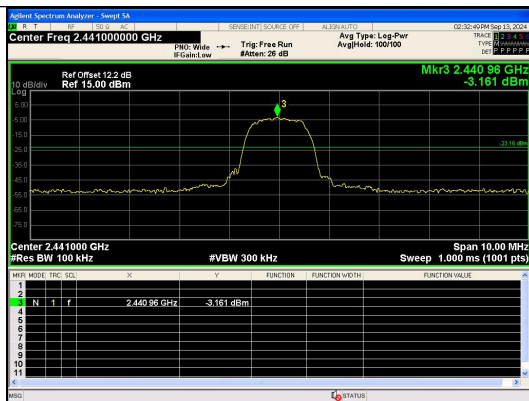
| Modulation | Packet | Channel | OOB Emission Frequency (MHz) | OOB Emission Level (dBm) | Limit (dBm) | Over Limit (dB) | Result |
|------------|--------|---------|------------------------------|--------------------------|-------------|-----------------|--------|
| GFSK       | DH5    | Hopping | 2396.49                      | -49.709                  | -22.31      | -27.399         | PASS   |
|            |        |         | 2400.00                      | -51.215                  | -22.31      | -28.905         | PASS   |
|            |        |         | 2483.50                      | -50.334                  | -20.84      | -29.494         | PASS   |
|            |        |         | 2396.98                      | -50.119                  | -22.29      | -27.829         | PASS   |
|            |        |         | 2400.00                      | -50.970                  | -22.29      | -28.680         | PASS   |
|            |        |         | 2483.50                      | -50.919                  | -20.93      | -29.989         | PASS   |
|            |        |         | 2395.54                      | -49.730                  | -22.35      | -27.380         | PASS   |
|            |        |         | 2400.00                      | -51.277                  | -22.35      | -28.927         | PASS   |
|            |        |         | 2483.50                      | -50.691                  | -20.9       | -29.791         | PASS   |

|               |       |         |         |        |         |      |
|---------------|-------|---------|---------|--------|---------|------|
| $\pi/4$ DQPSK | 2-DH5 | 2397.32 | -49.361 | -22.74 | -26.621 | PASS |
|               |       | 2400.00 | -51.539 | -22.74 | -28.799 | PASS |
|               |       | 2483.50 | -51.073 | -21.93 | -29.143 | PASS |
|               |       | 2397.14 | -50.321 | -22.83 | -27.491 | PASS |
|               |       | 2400.00 | -50.964 | -22.83 | -28.134 | PASS |
|               |       | 2483.50 | -50.774 | -21.74 | -29.034 | PASS |
|               |       | 2398.18 | -49.645 | -22.3  | -27.345 | PASS |
|               |       | 2400.00 | -51.756 | -22.3  | -29.456 | PASS |
| 8DPSK         | 3-DH5 | 2483.50 | -50.252 | -21.96 | -28.292 | PASS |
|               |       | 2396.94 | -49.934 | -22.62 | -27.314 | PASS |
|               |       | 2400.00 | -52.166 | -22.62 | -29.546 | PASS |
|               |       | 2483.50 | -50.104 | -20.96 | -29.144 | PASS |
|               |       | 2396.85 | -49.453 | -23.12 | -26.333 | PASS |
|               |       | 2400.00 | -51.254 | -23.12 | -28.134 | PASS |
|               |       | 2483.50 | -51.061 | -20.65 | -30.411 | PASS |
|               |       | 2396.88 | -50.408 | -22.81 | -27.598 | PASS |
|               |       | 2400.00 | -50.485 | -22.81 | -27.675 | PASS |
|               |       | 2483.50 | -50.012 | -21.36 | -28.652 | PASS |

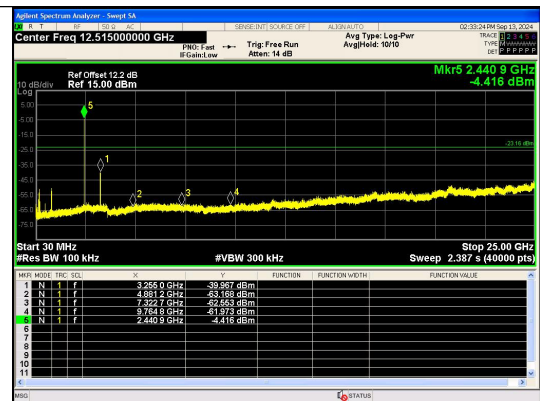
## Test Graphs

Out Of Band Emission  
GFSK\_DH5\_Channel 0Out Of Band Emission  
 $\pi/4$ DQPSK\_2-DH5\_Channel 030.0 MHz - 25000.0 MHz  
GFSK\_DH5\_Channel 030.0 MHz - 25000.0 MHz  
 $\pi/4$ DQPSK\_2-DH5\_Channel 0Out Of Band Emission  
GFSK\_DH5\_Channel 39Out Of Band Emission  
 $\pi/4$ DQPSK\_2-DH5\_Channel 39

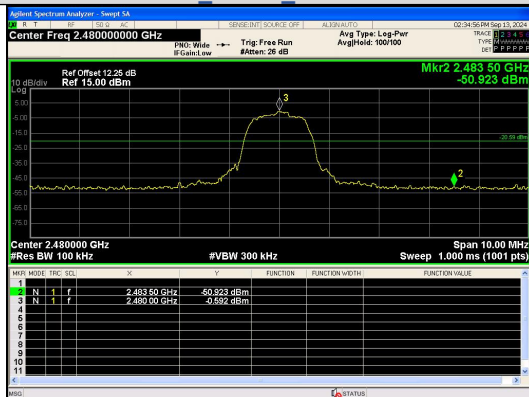




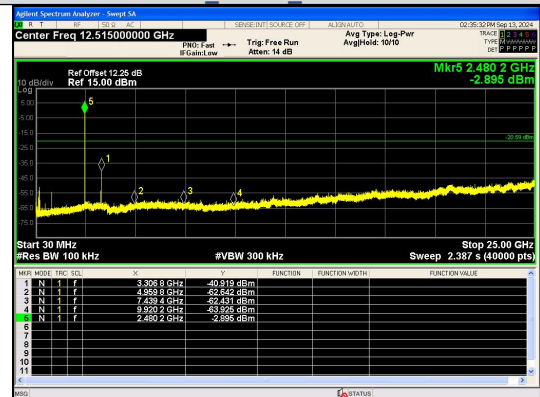
**Out Of Band Emission  
8DPSK\_3-DH5\_Channel 39**



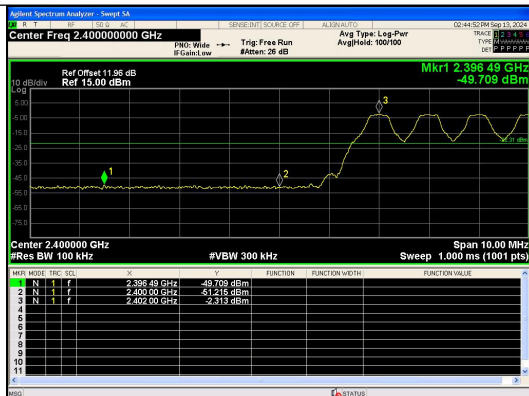
**30.0 MHz - 25000.0 MHz  
8DPSK\_3-DH5\_Channel 39**



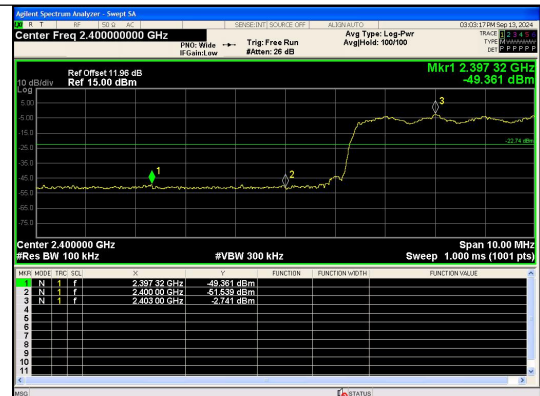
**Out Of Band Emission  
8DPSK\_3-DH5\_Channel 78**



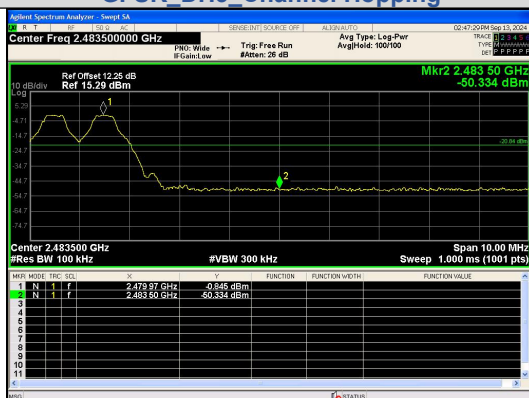
**30.0 MHz - 25000.0 MHz  
8DPSK\_3-DH5\_Channel 78**



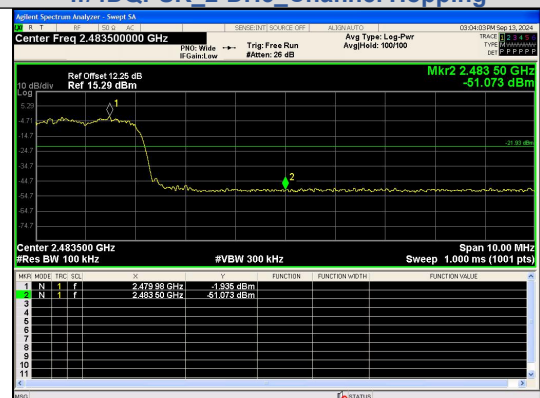
**Out Of Band Emission(Left)  
GFSK\_DH5\_Channel Hopping**



**Out Of Band Emission(Left)  
π/4DQPSK\_2-DH5\_Channel Hopping**



**Out Of Band Emission(Right)  
GFSK\_DH5\_Channel Hopping**



**Out Of Band Emission(Right)  
π/4DQPSK\_2-DH5\_Channel Hopping**