# Appendix A

# RF Test Data for BT V4.1 (BDR/EDR) (Conducted Measurement)

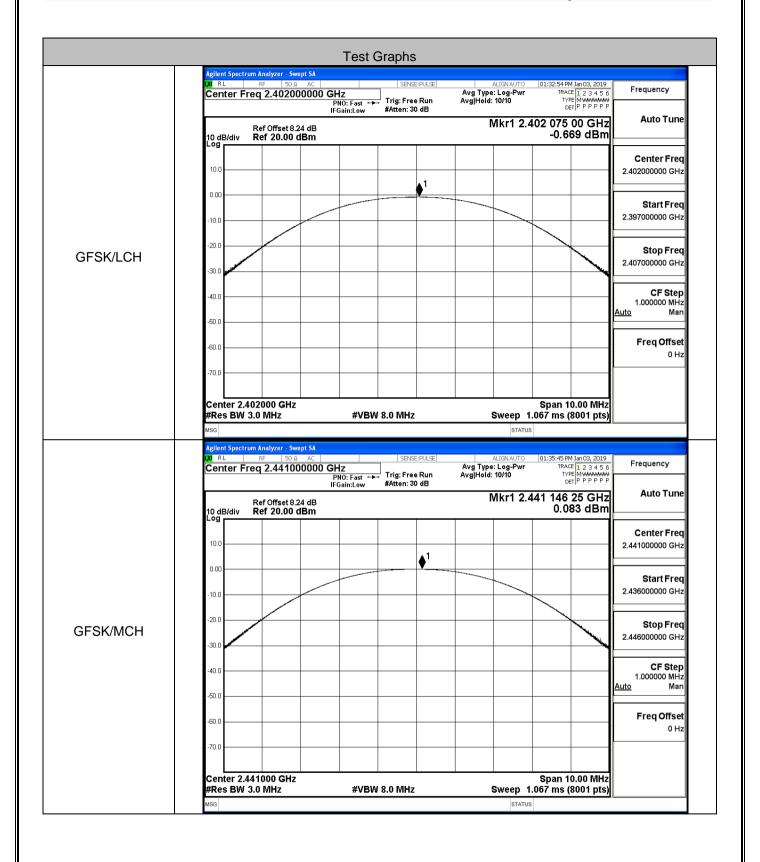
**Product Name: Tablet PC** Trade Mark: ALLDOCUBE Test Model: U1005

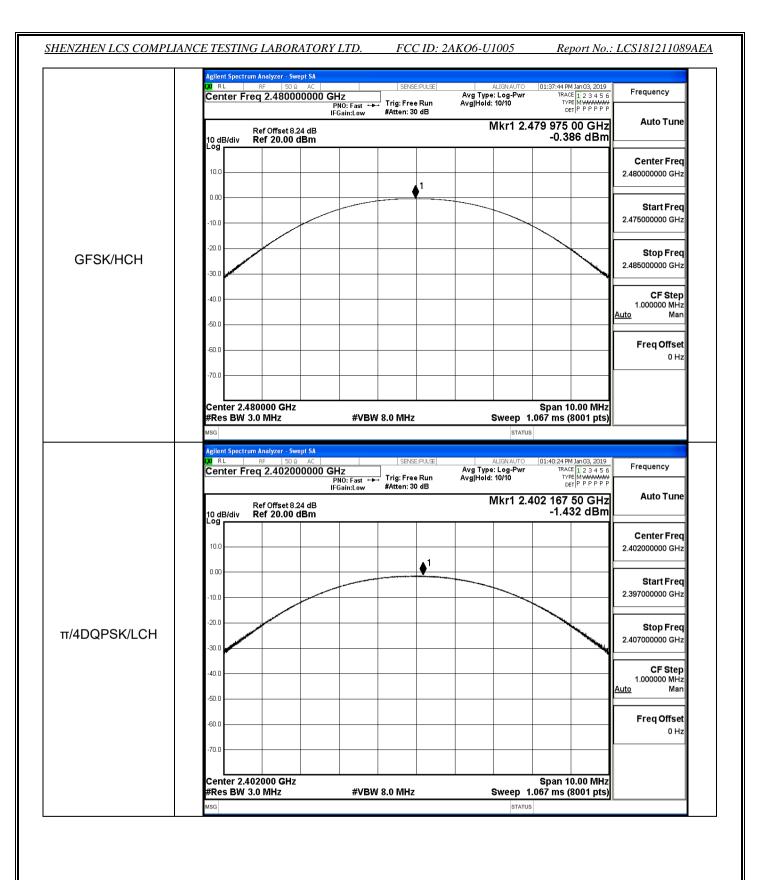
#### **Environmental Conditions**

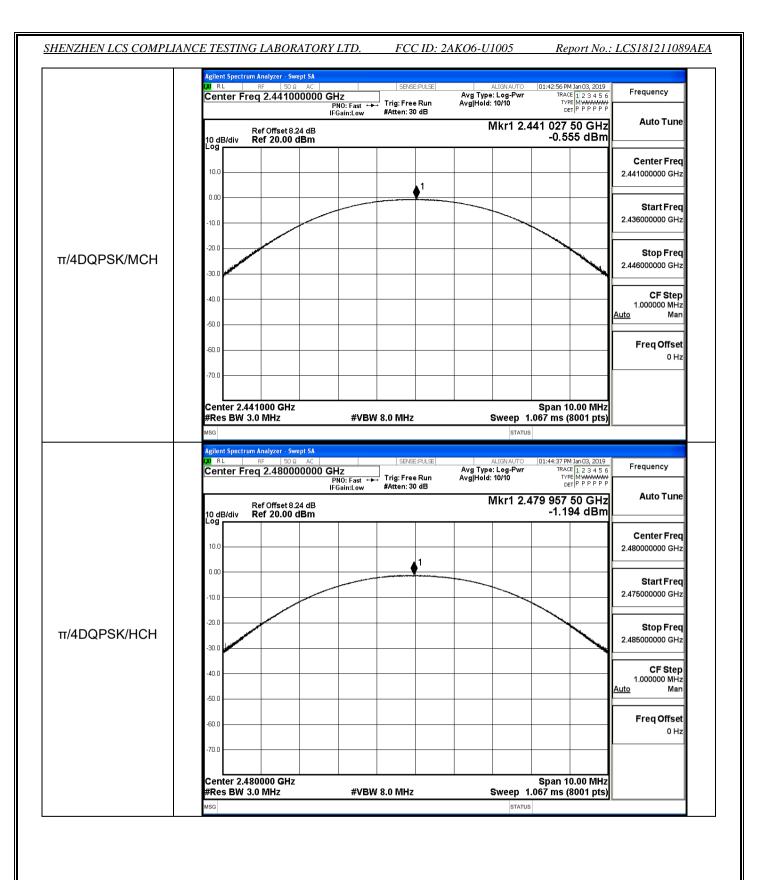
| Temperature:       | 22.5° C     |
|--------------------|-------------|
| Relative Humidity: | 52.3%       |
| ATM Pressure:      | 100.0 kPa   |
| Test Engineer:     | Diamond.Lu  |
| Supervised by:     | Jayden.Zhuo |

### A.1 Maximum Conducted Peak Output Power

| Mode     | Channel.         | Maximum Peak Output Power [dBm] | Limit [dBm] | Verdict |
|----------|------------------|---------------------------------|-------------|---------|
|          | LCH              | -0.669                          | 21          | PASS    |
| GFSK     | MCH              | 0.083                           | 21          | PASS    |
|          | НСН              | -0.386                          | 21          | PASS    |
|          | LCH              | -1.432                          | 21          | PASS    |
| π/4DQPSK | MCH              | -0.555                          | 21          | PASS    |
|          | НСН              | -1.194                          | 21          | PASS    |
|          | LCH              | -1.412                          | 21          | PASS    |
| 8DPSK    | 8DPSK MCH -0.521 |                                 | 21          | PASS    |
|          | HCH              | -1.120                          | 21          | PASS    |

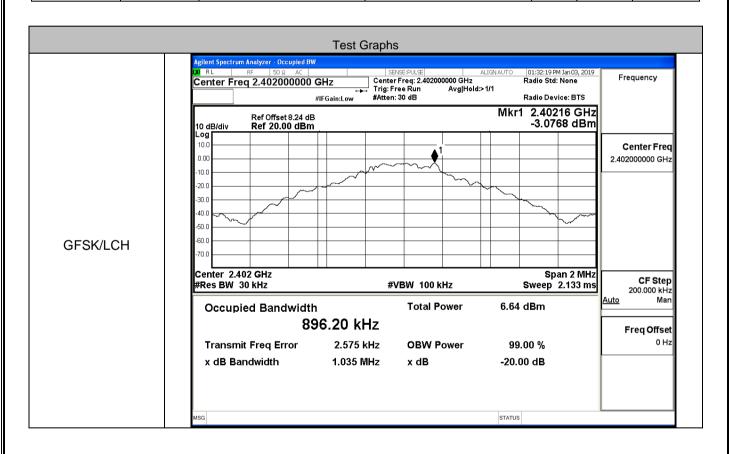


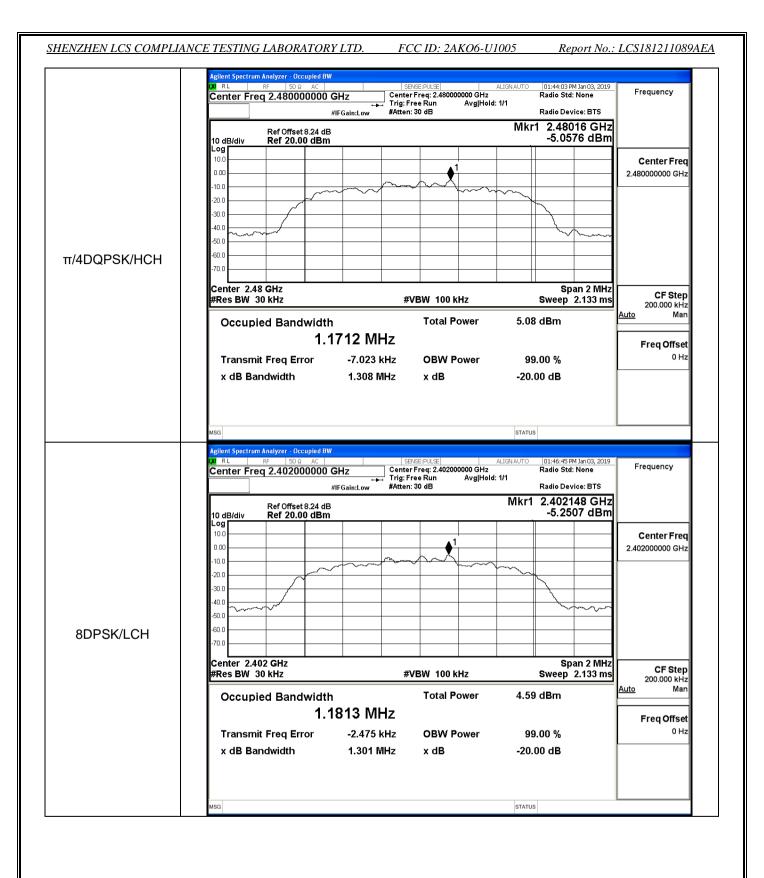




#### A.2 99% and 20dB Bandwidth

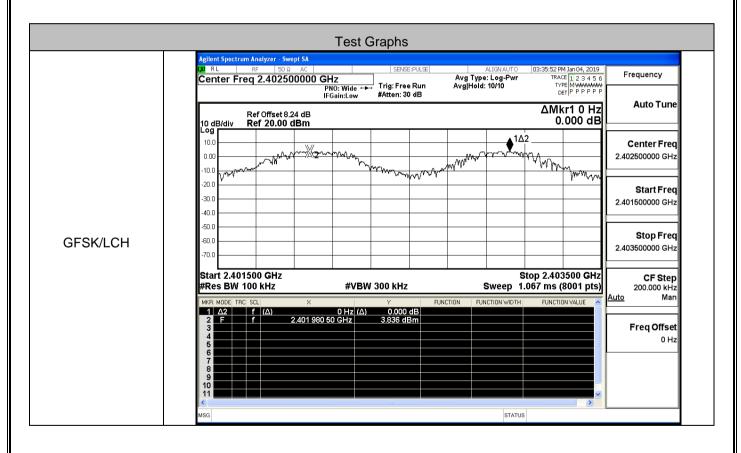
| Mode     | Channel.    | 99% Bandwidth [MHz] | 20dB Bandwidth [MHz] | Limit [MHz]   | Verdict |
|----------|-------------|---------------------|----------------------|---------------|---------|
|          | LCH         | 0.89620             | 1.035                | Not Specified | PASS    |
| GFSK     | MCH         | 0.90072             | 1.035                | Not Specified | PASS    |
|          | HCH         | 0.89805             | 1.027                | Not Specified | PASS    |
|          | LCH         | 1.1744              | 1.291                | Not Specified | PASS    |
| π/4DQPSK | MCH         | 1.1762              | 1.312                | Not Specified | PASS    |
|          | HCH         | 1.1712              | 1.308                | Not Specified | PASS    |
|          | LCH         | 1.1813              | 1.301                | Not Specified | PASS    |
| 8DPSK    | BDPSK MCH 1 |                     | 1.295                | Not Specified | PASS    |
|          | HCH         | 1.1814              | 1.303                | Not Specified | PASS    |

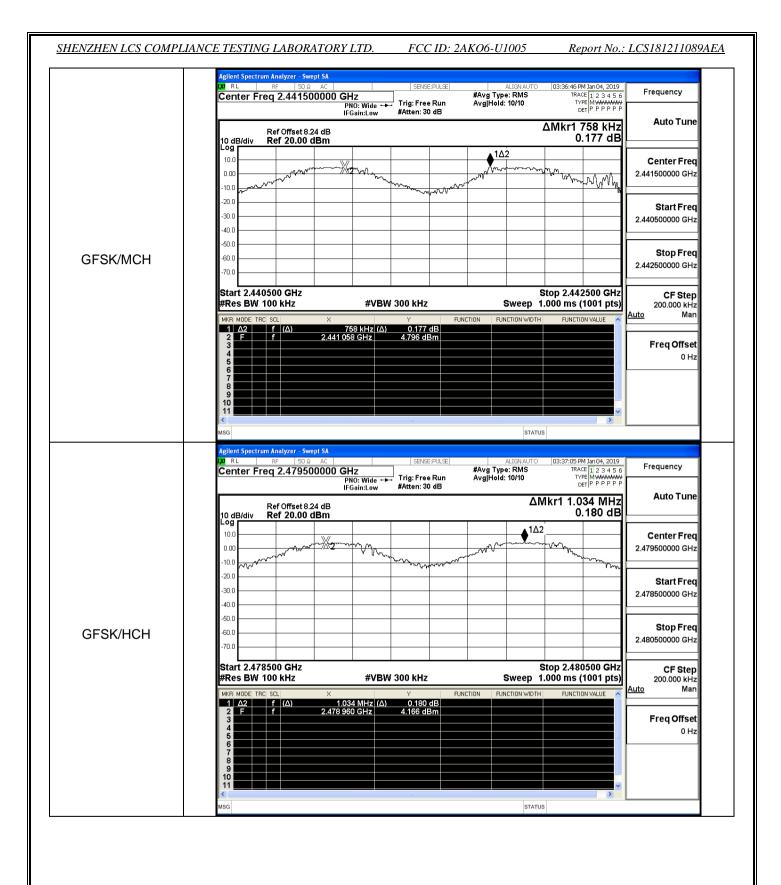


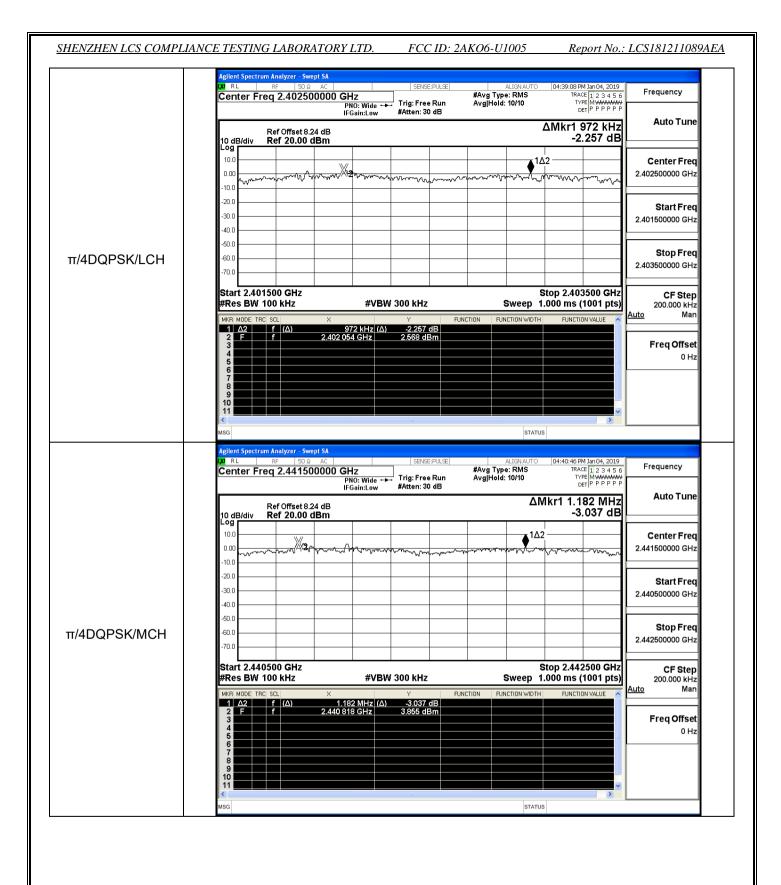


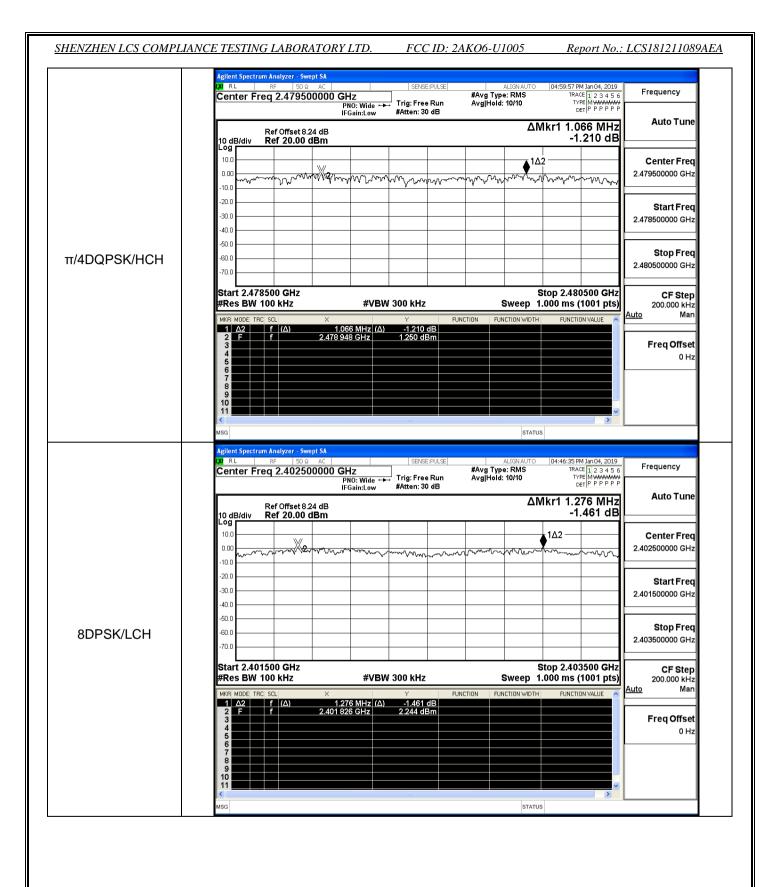
### **A.3 Carrier Frequency Separation**

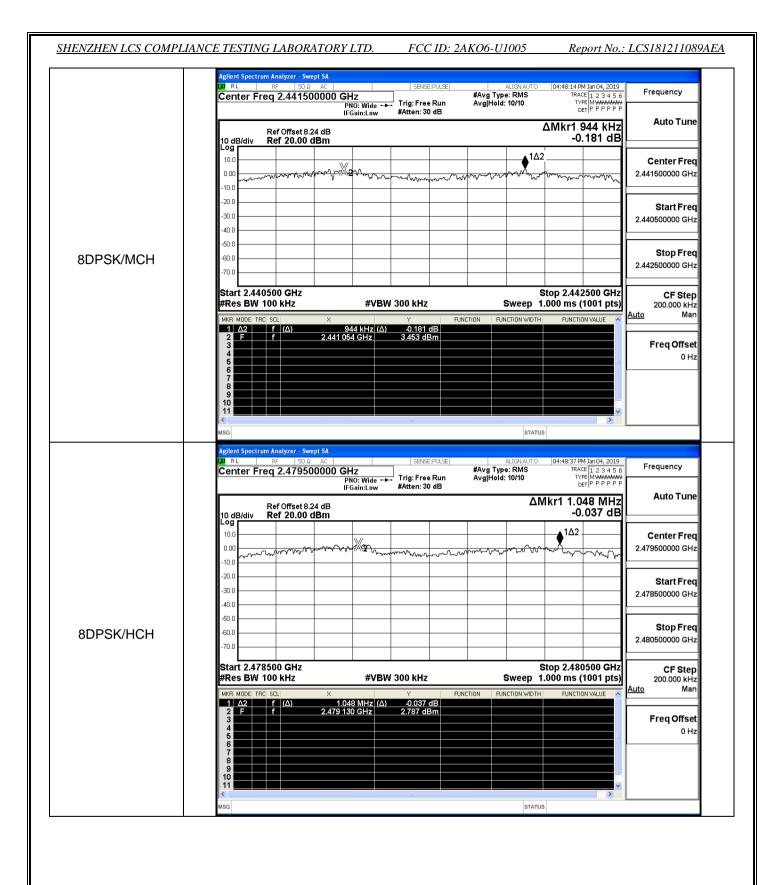
| Mode     | Channel. | Carrier Frequency Separation [MHz] | Limit [MHz] | Verdict |
|----------|----------|------------------------------------|-------------|---------|
|          | LCH      | 1.043                              | 0.690       | PASS    |
| GFSK     | MCH      | 0.758                              | 0.690       | PASS    |
|          | HCH      | 1.034                              | 0.690       | PASS    |
|          | LCH      | 0.972                              | 0.875       | PASS    |
| π/4DQPSK | MCH      | 1.182                              | 0.875       | PASS    |
|          | HCH      | 1.066                              | 0.875       | PASS    |
| 8DPSK    | LCH      | 1.276                              | 0.869       | PASS    |
|          | MCH      | 0.944                              | 0.869       | PASS    |
|          | HCH      | 1.048                              | 0.869       | PASS    |





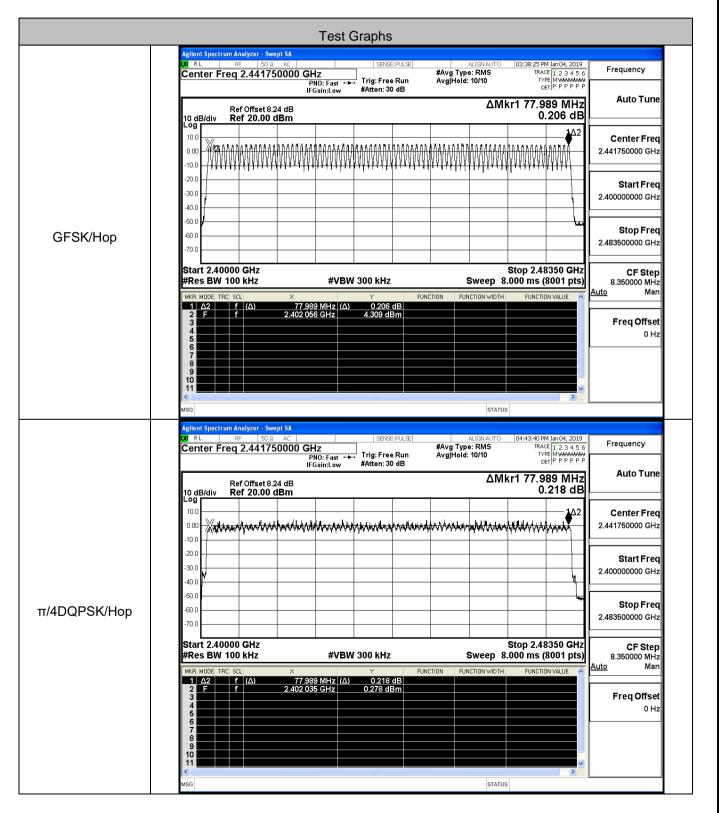


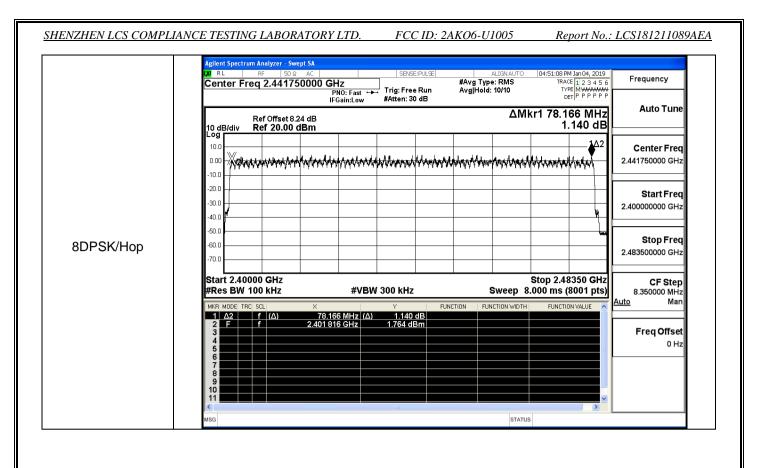




#### A.4 Hopping Channel Number

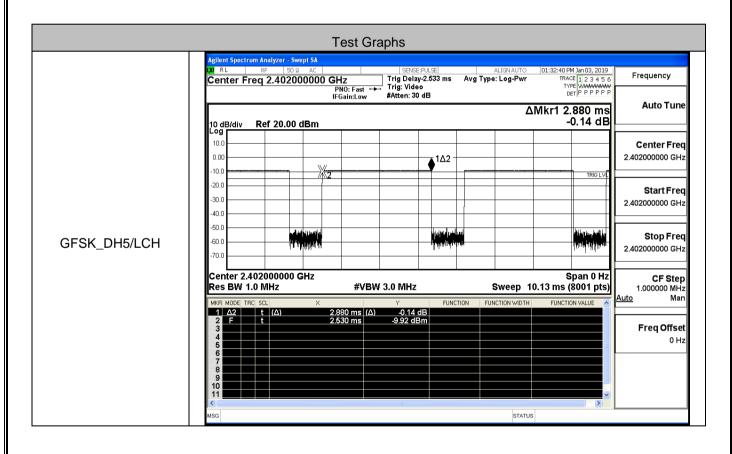
| Mode     | Channel. | Number of Hopping Channel [N] | Limit [N] | Verdict |
|----------|----------|-------------------------------|-----------|---------|
| GFSK     | Нор      | 79                            | >=15      | PASS    |
| π/4DQPSK | Нор      | 79                            | >=15      | PASS    |
| 8DPSK    | Нор      | 79                            | >=15      | PASS    |

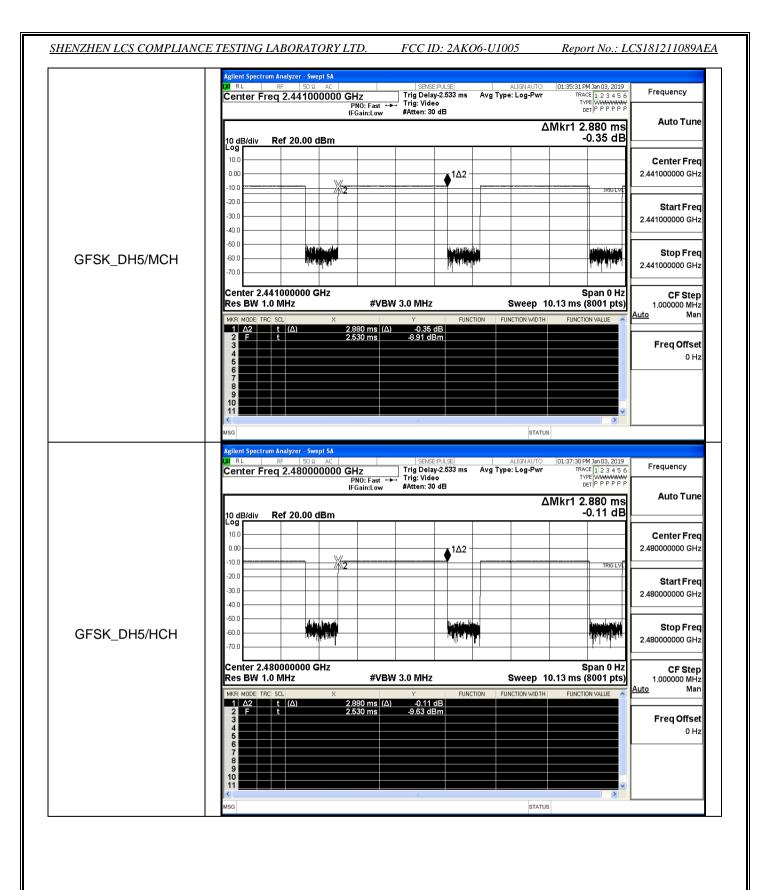


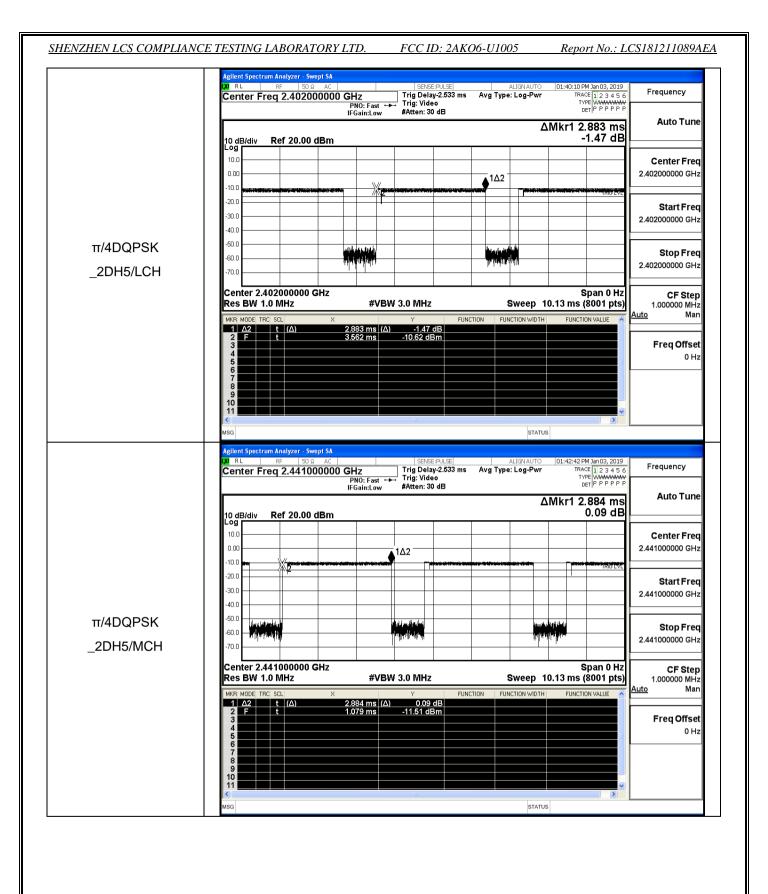


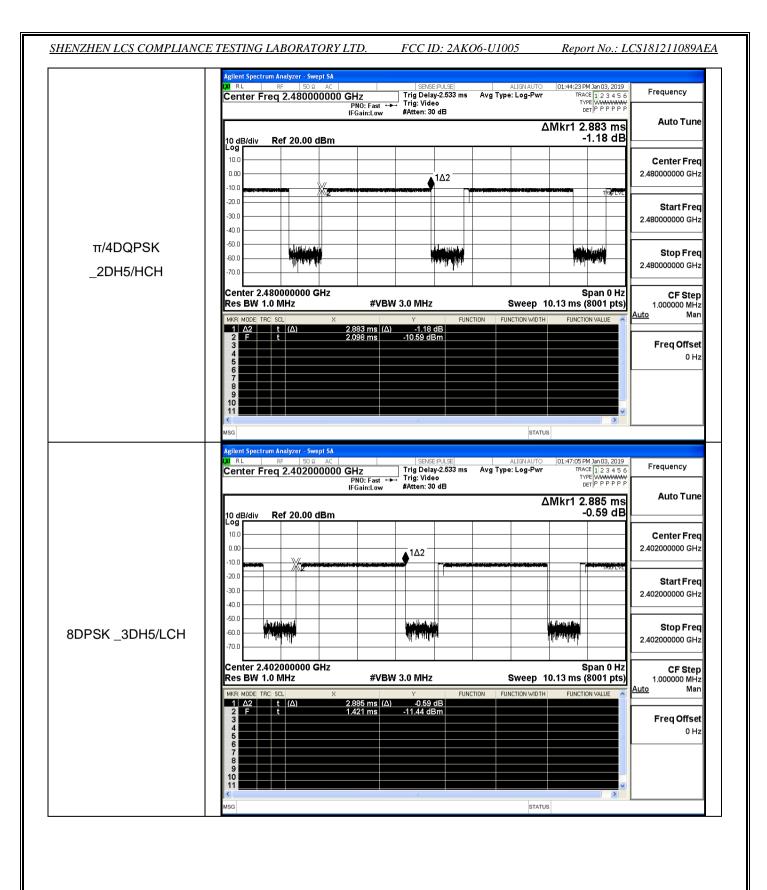
#### A.5 Dwell Time

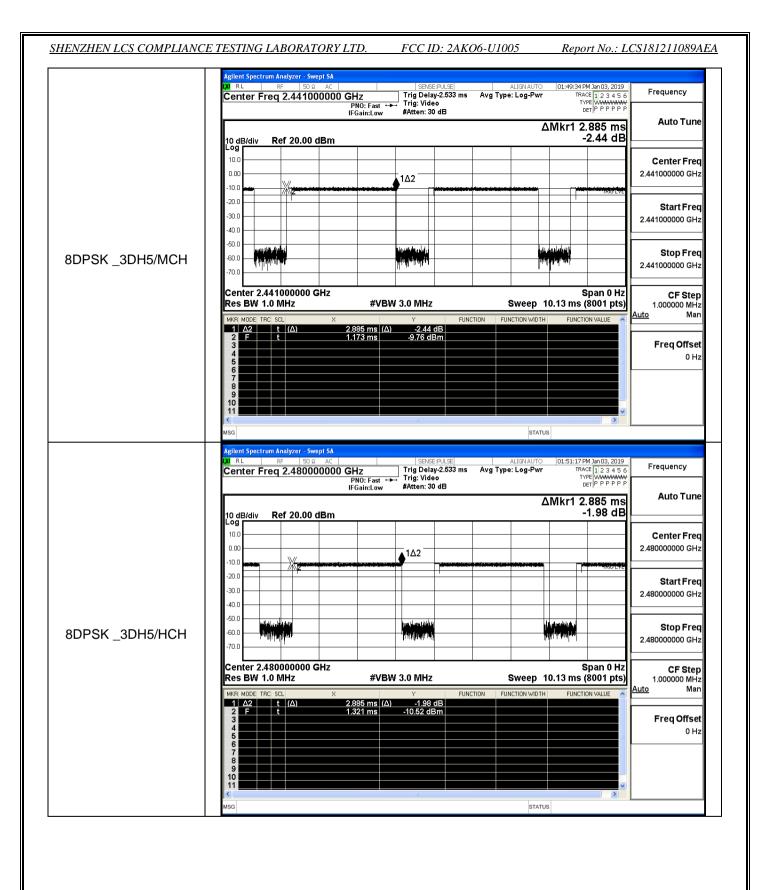
| Mode     | Packet  | Channel | Burst Width [ms/hop/ch] | Total<br>Hops[hop*ch] | Dwell Time[s] | Limit [s] | Verdict |
|----------|---------|---------|-------------------------|-----------------------|---------------|-----------|---------|
|          | DH5     | LCH     | 2.88                    | 106.7                 | 0.307         | 0.4       | PASS    |
| GFSK     | DH5     | МСН     | 2.88                    | 106.7                 | 0.307         | 0.4       | PASS    |
|          | DH5 HCH |         | 2.88                    | 106.7                 | 0.307         | 0.4       | PASS    |
|          | 2DH5    | LCH     | 2.88                    | 106.7                 | 0.307         | 0.4       | PASS    |
| π/4DQPSK | 2DH5    | МСН     | 2.88                    | 106.7                 | 0.307         | 0.4       | PASS    |
|          | 2DH5    | HCH     | 2.88                    | 106.7                 | 0.307         | 0.4       | PASS    |
| 8DPSK    | 3DH5    | LCH     | 2.89                    | 106.7                 | 0.308         | 0.4       | PASS    |
|          | 3DH5    | MCH     | 2.89                    | 106.7                 | 0.308         | 0.4       | PASS    |
|          | 3DH5    | HCH     | 2.89                    | 106.7                 | 0.308         | 0.4       | PASS    |





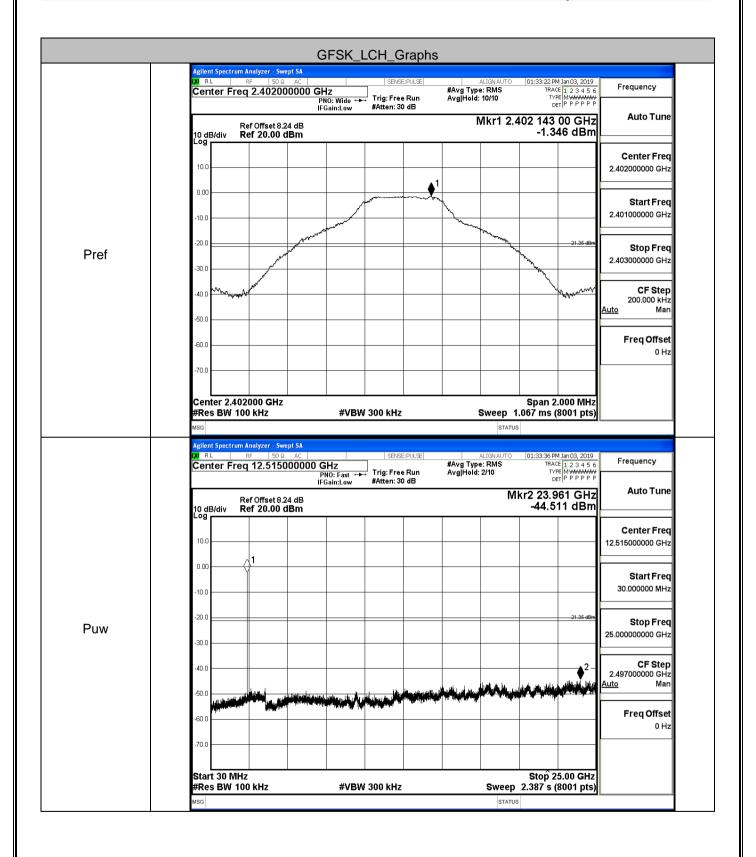


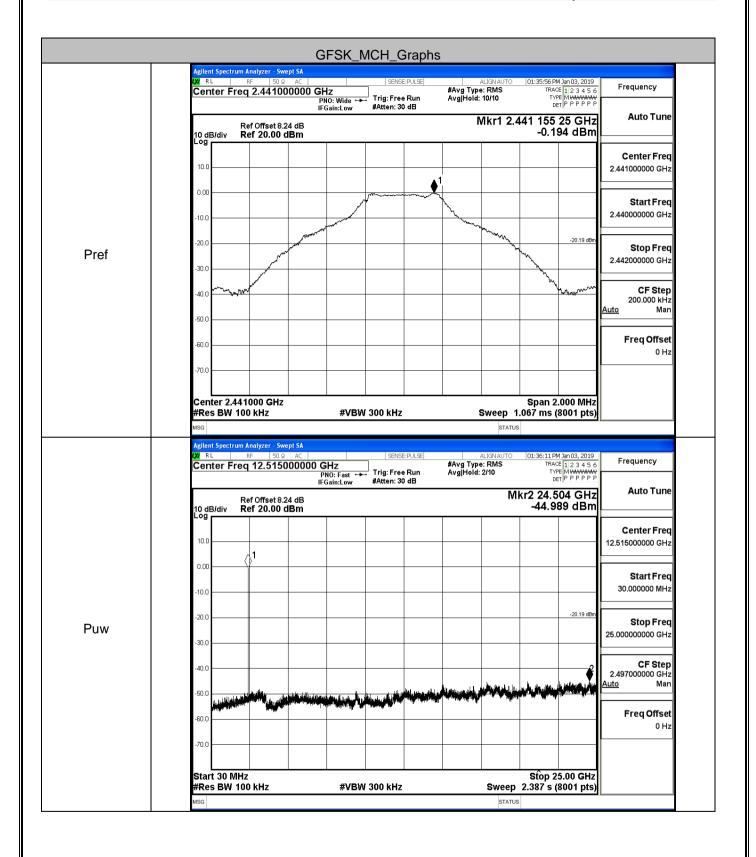


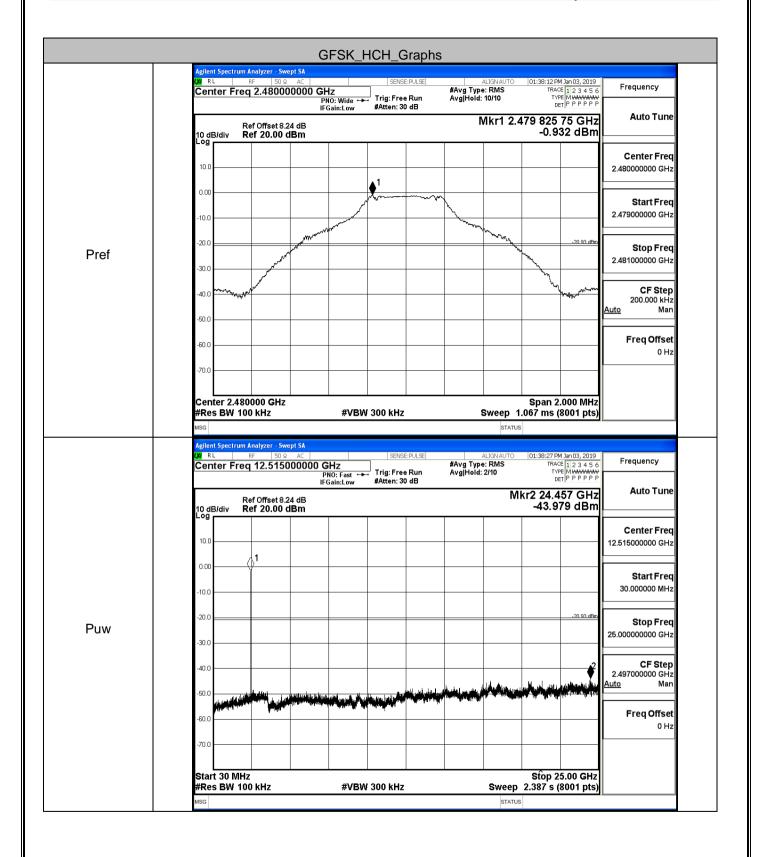


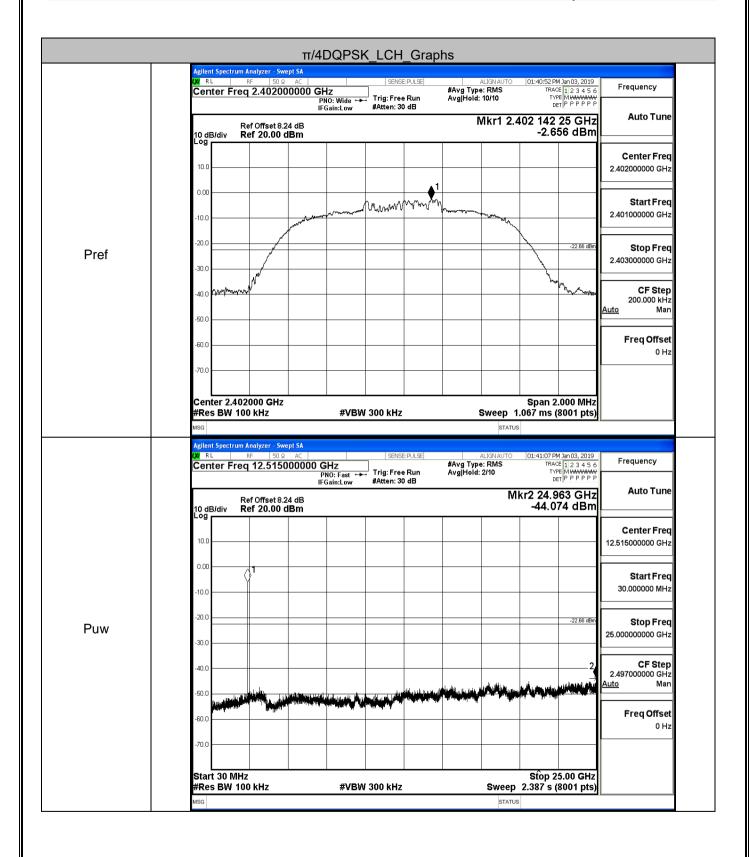
### A.6 RF Conducted Spurious Emissions

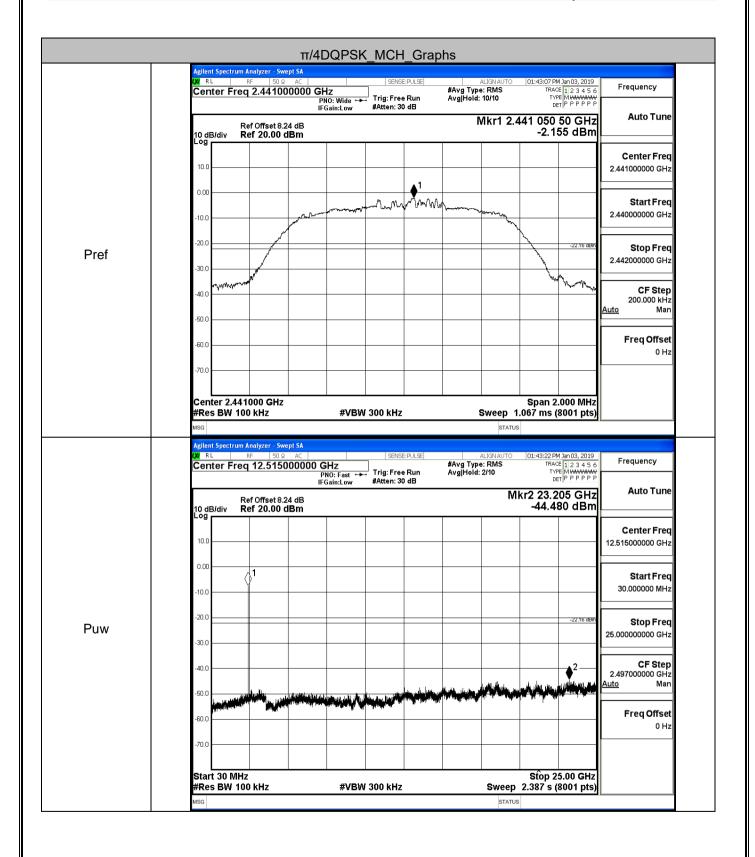
| Mode     | Channel | Pref [dBm] | Max. Level [dBm] | Limit [dBm] | Verdict |
|----------|---------|------------|------------------|-------------|---------|
|          | LCH     | -1.346     | -44.511          | -21.346     | PASS    |
| GFSK     | MCH     | -0.194     | -44.989          | -20.194     | PASS    |
|          | HCH     | -0.932     | -43.979          | -20.932     | PASS    |
|          | LCH     | -2.656     | -44.074          | -22.656     | PASS    |
| π/4DQPSK | MCH     | -2.155     | -44.480          | -22.155     | PASS    |
|          | НСН     | -2.253     | -44.135          | -22.253     | PASS    |
| 8DPSK    | LCH     | -2.434     | -43.740          | -22.434     | PASS    |
|          | MCH     | -1.484     | -44.646          | -21.484     | PASS    |
|          | НСН     | -2.525     | -44.408          | -22.525     | PASS    |

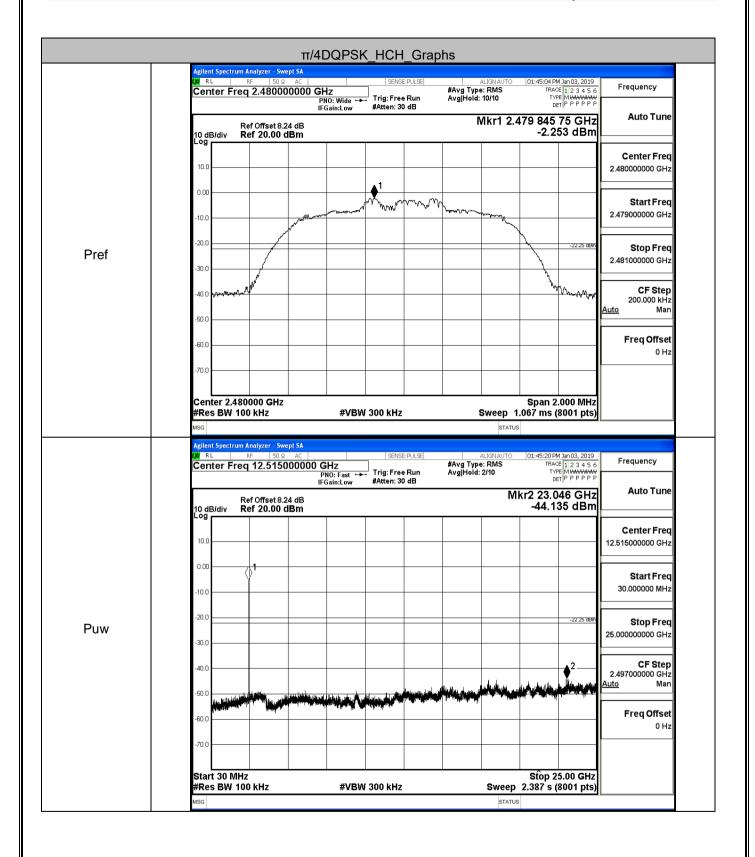


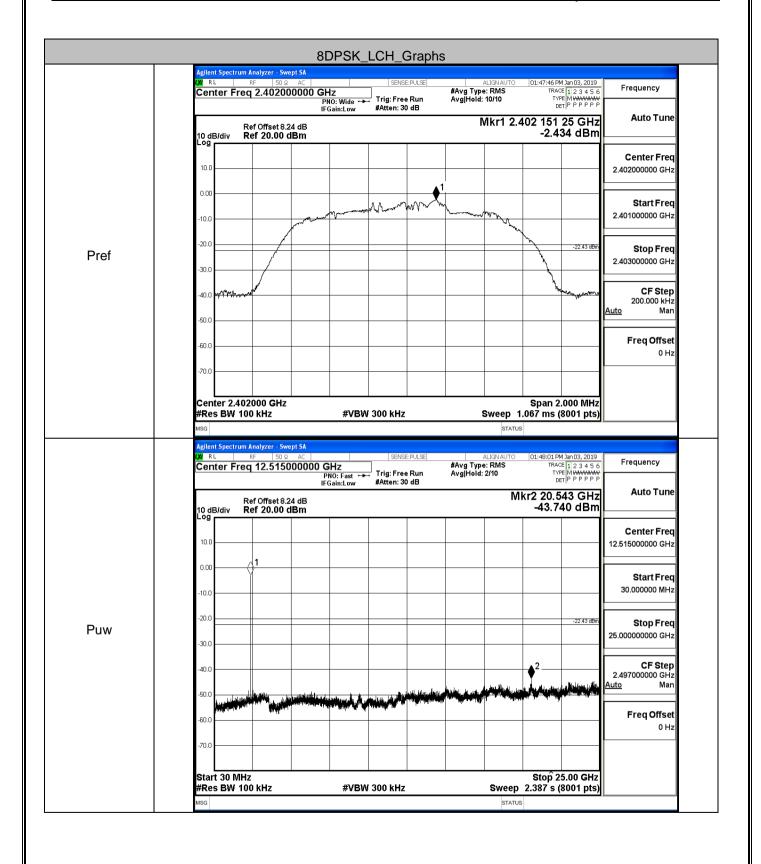


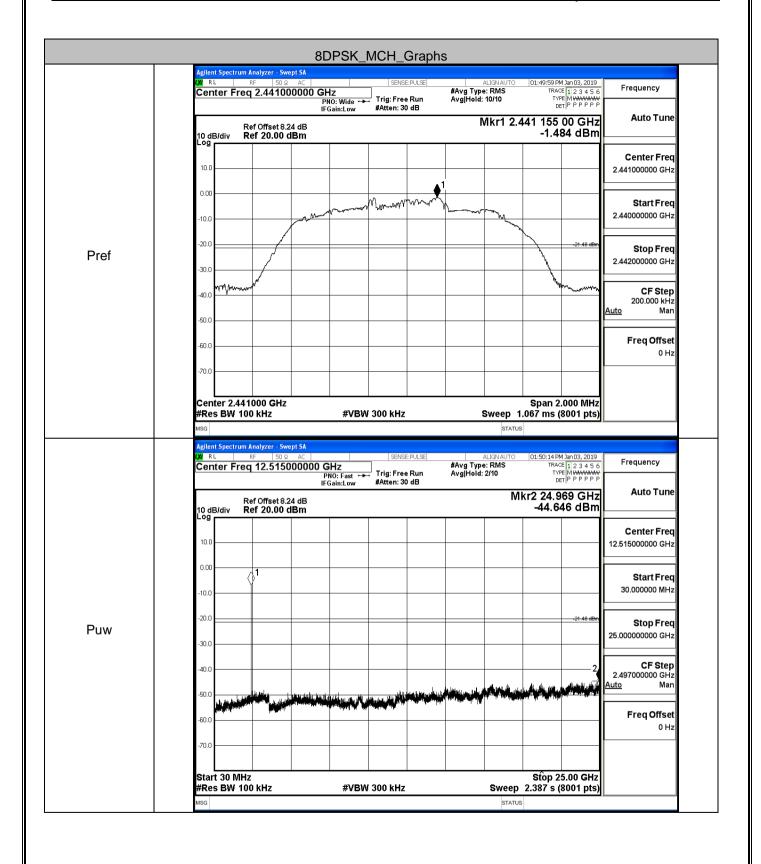


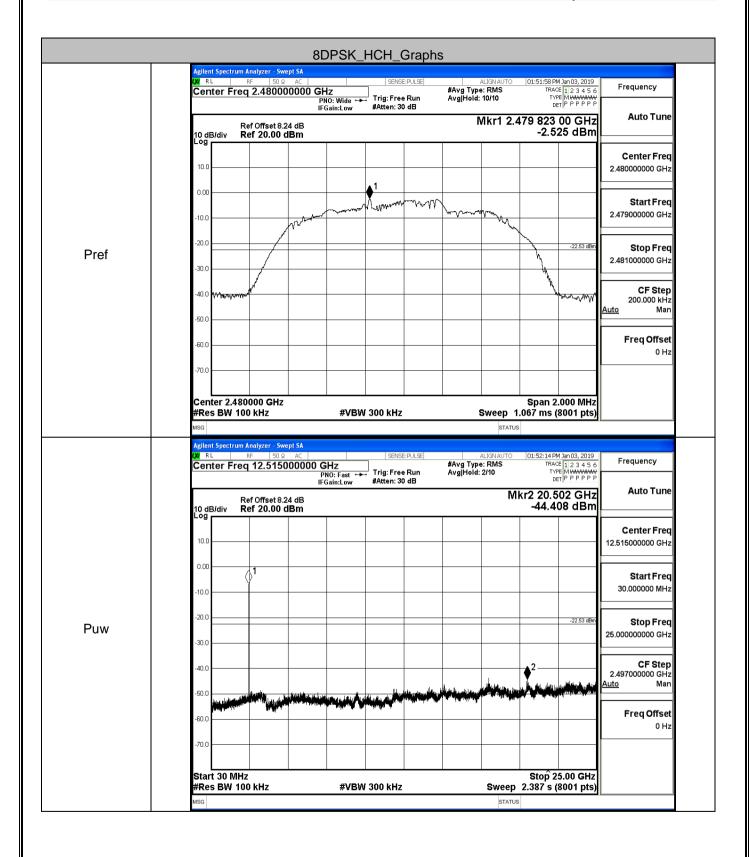






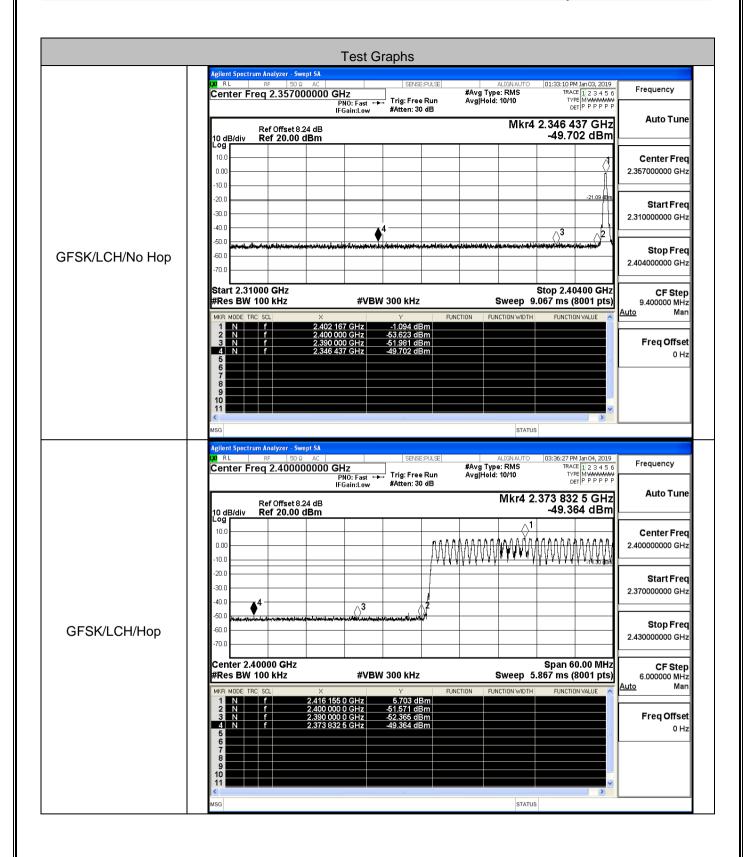


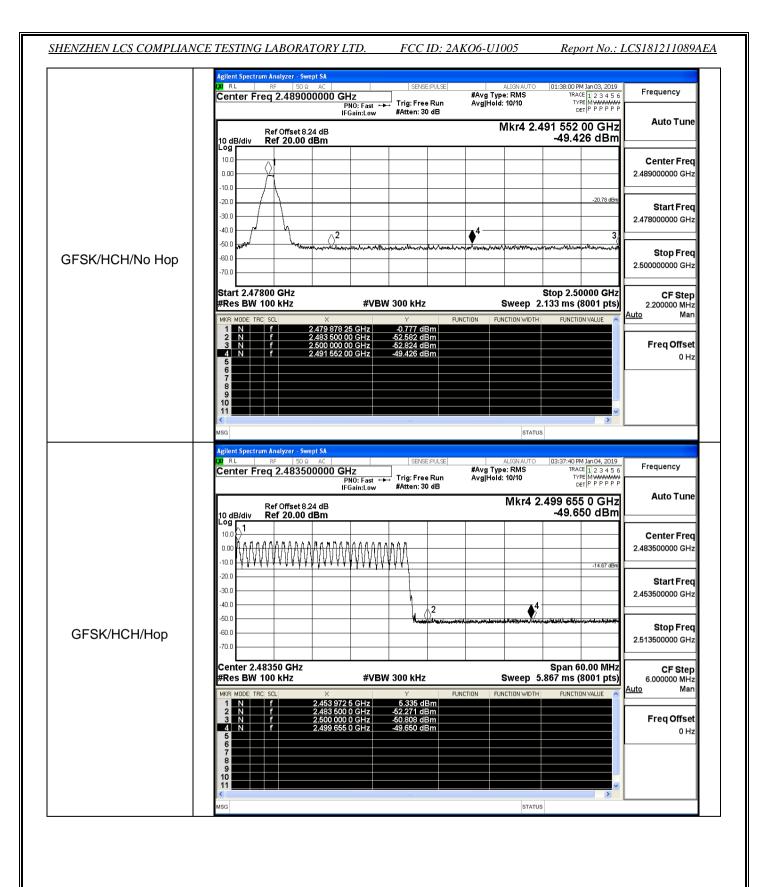


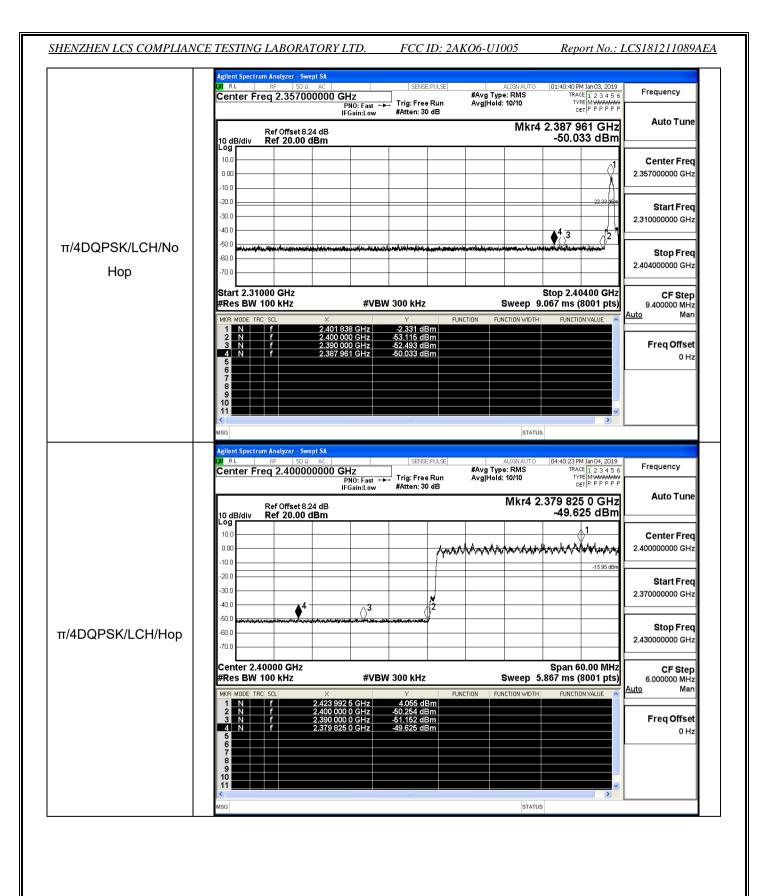


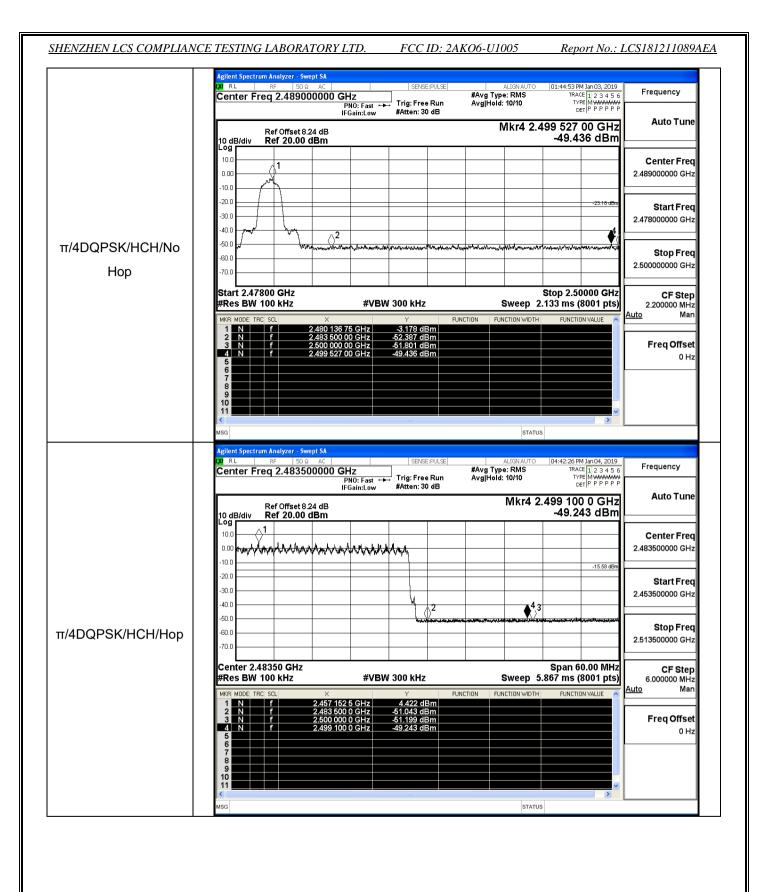
# A.7 Band-edge for RF Conducted Emissions

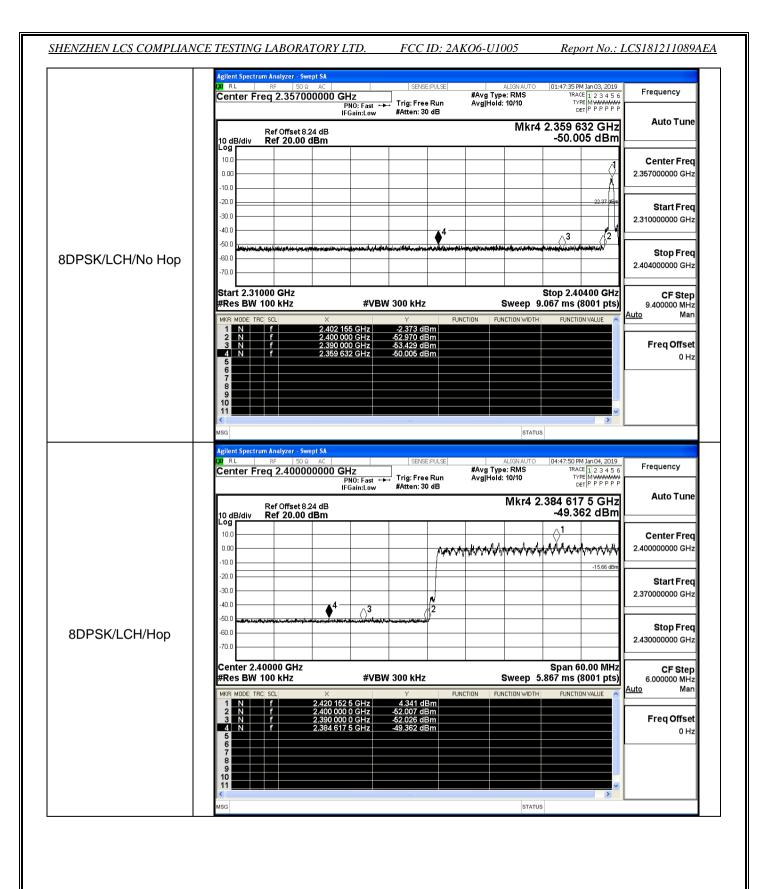
| Mode     | Channel | Carrier<br>Frequency<br>[MHz] | Carrier<br>Power<br>[dBm] | Frequency<br>Hopping | Max<br>Spurious<br>Level<br>[dBm] | Limit<br>[dBm] | Verdict |      |
|----------|---------|-------------------------------|---------------------------|----------------------|-----------------------------------|----------------|---------|------|
|          |         |                               | -1.094                    | Off                  | -49.702                           | -21.09         | PASS    |      |
| 2-21/    | LCH     | 2402                          | 5.703                     | On                   | -49.364                           | -14.3          | PASS    |      |
| GFSK     | нсн     | 2480                          | -0.777                    | Off                  | -49.426                           | -20.78         | PASS    |      |
|          |         |                               | 5.335                     | On                   | -49.650                           | -14.67         | PASS    |      |
|          | LCH     |                               |                           | -2.331               | Off                               | -50.033        | -22.33  | PASS |
|          |         | 2402                          | 4.055                     | On                   | -49.625                           | -15.95         | PASS    |      |
| π/4DQPSK | НСН     | CH 2480                       | -3.178                    | Off                  | -49.436                           | -23.18         | PASS    |      |
|          |         |                               | 4.422                     | On                   | -49.243                           | -15.58         | PASS    |      |
|          |         |                               | -2.373                    | Off                  | -50.005                           | -22.37         | PASS    |      |
| 8DPSK    | LCH     | 2402                          | 4.341                     | On                   | -49.362                           | -15.66         | PASS    |      |
|          |         |                               | -2.266                    | Off                  | -49.069                           | -22.27         | PASS    |      |
|          | HCH     | 2480                          | 4.254                     | On                   | -46.337                           | -15.75         | PASS    |      |

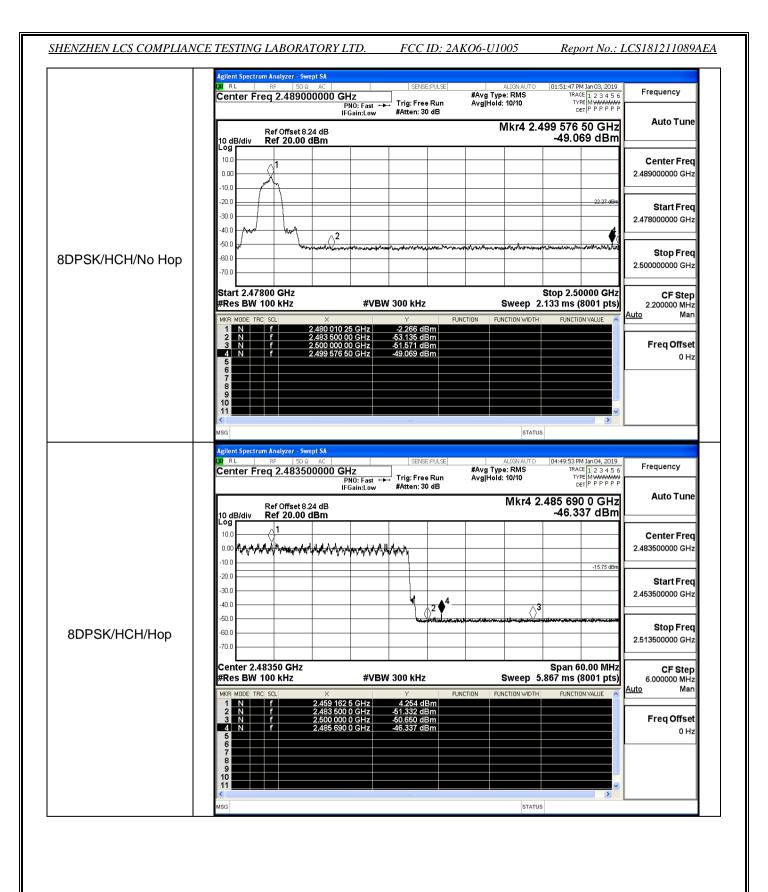








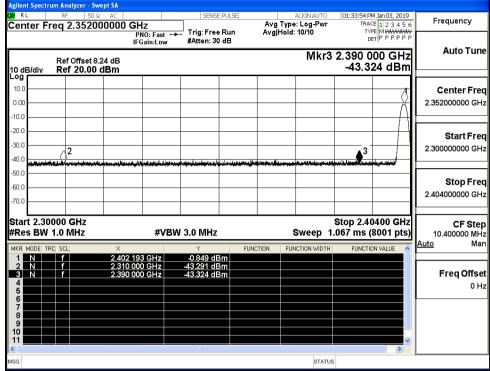




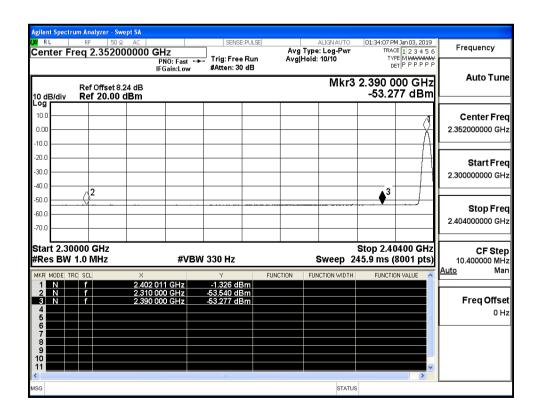
### A.8 Restrict-band band-edge measurements

| Test<br>Mode | Hopping | Freq.  | Power<br>[dBm] | Gain | Ground<br>Factor | E<br>[dBuV/m] | Detector | Limit<br>[dBuV/m] | Verdict |
|--------------|---------|--------|----------------|------|------------------|---------------|----------|-------------------|---------|
|              | Off     | 2310.0 | -43.29         | 2.0  | 0                | 51.97         | PEAK     | 74                | PASS    |
|              | Off     | 2310.0 | -53.54         | 2.0  | 0                | 41.72         | AV       | 54                | PASS    |
|              | Off     | 2390.0 | -43.32         | 2.0  | 0                | 51.93         | PEAK     | 74                | PASS    |
| 0501         | Off     | 2390.0 | -53.28         | 2.0  | 0                | 41.98         | AV       | 54                | PASS    |
| GFSK         | Off     | 2483.5 | -43.52         | 2.0  | 0                | 51.74         | PEAK     | 74                | PASS    |
|              | Off     | 2483.5 | -52.96         | 2.0  | 0                | 42.30         | AV       | 54                | PASS    |
|              | Off     | 2500.0 | -41.43         | 2.0  | 0                | 53.82         | PEAK     | 74                | PASS    |
|              | Off     | 2500.0 | -52.86         | 2.0  | 0                | 42.40         | AV       | 54                | PASS    |
|              | Off     | 2310.0 | -42.88         | 2.0  | 0                | 52.38         | PEAK     | 74                | PASS    |
|              | Off     | 2310.0 | -53.62         | 2.0  | 0                | 41.64         | AV       | 54                | PASS    |
|              | Off     | 2390.0 | -42.28         | 2.0  | 0                | 52.98         | PEAK     | 74                | PASS    |
| -/4DODOK     | Off     | 2390.0 | -53.26         | 2.0  | 0                | 41.99         | AV       | 54                | PASS    |
| π/4DQPSK     | Off     | 2483.5 | -41.46         | 2.0  | 0                | 53.80         | PEAK     | 74                | PASS    |
|              | Off     | 2483.5 | -53.05         | 2.0  | 0                | 42.21         | AV       | 54                | PASS    |
|              | Off     | 2500.0 | -42.57         | 2.0  | 0                | 52.69         | PEAK     | 74                | PASS    |
|              | Off     | 2500.0 | -52.99         | 2.0  | 0                | 42.27         | AV       | 54                | PASS    |
|              | Off     | 2310.0 | -42.10         | 2.0  | 0                | 53.16         | PEAK     | 74                | PASS    |
|              | Off     | 2310.0 | -53.61         | 2.0  | 0                | 41.64         | AV       | 54                | PASS    |
|              | Off     | 2390.0 | -42.87         | 2.0  | 0                | 52.38         | PEAK     | 74                | PASS    |
| 000014       | Off     | 2390.0 | -53.41         | 2.0  | 0                | 41.85         | AV       | 54                | PASS    |
| 8DPSK        | Off     | 2483.5 | -42.86         | 2.0  | 0                | 52.40         | PEAK     | 74                | PASS    |
|              | Off     | 2483.5 | -53.08         | 2.0  | 0                | 42.17         | AV       | 54                | PASS    |
|              | Off     | 2500.0 | -41.30         | 2.0  | 0                | 53.96         | PEAK     | 74                | PASS    |
|              | Off     | 2500.0 | -52.97         | 2.0  | 0                | 42.29         | AV       | 54                | PASS    |

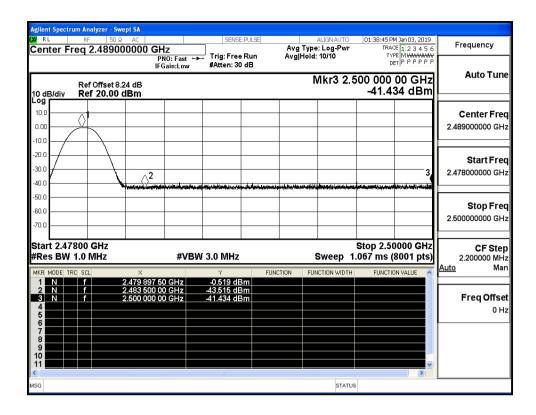




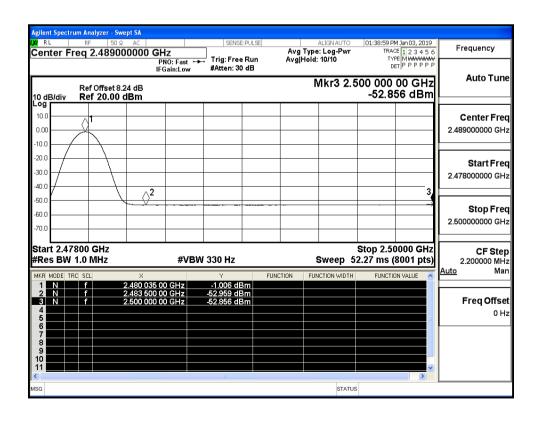
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (Low Channel)



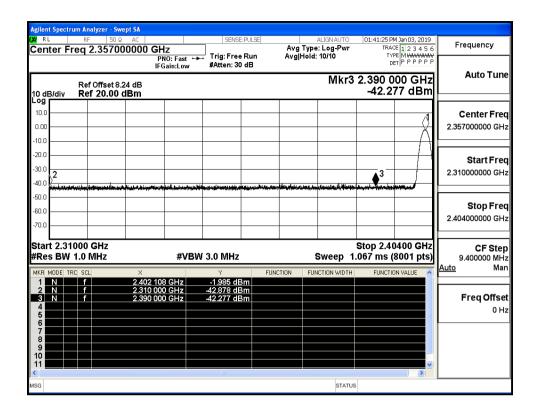
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (High Channel)



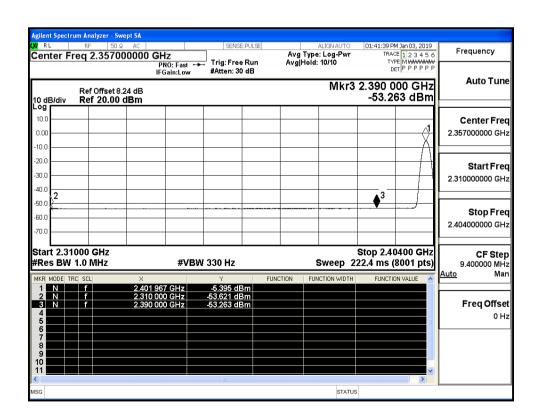
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (High Channel)



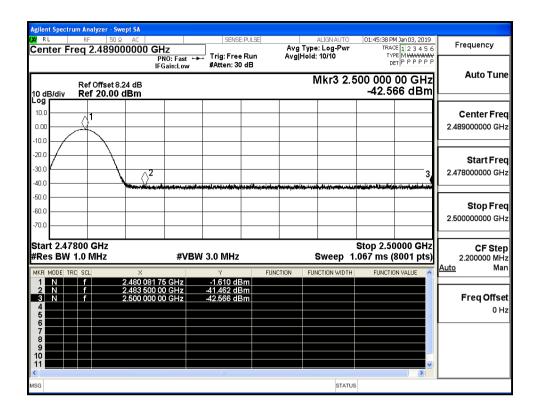
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (Low Channel)



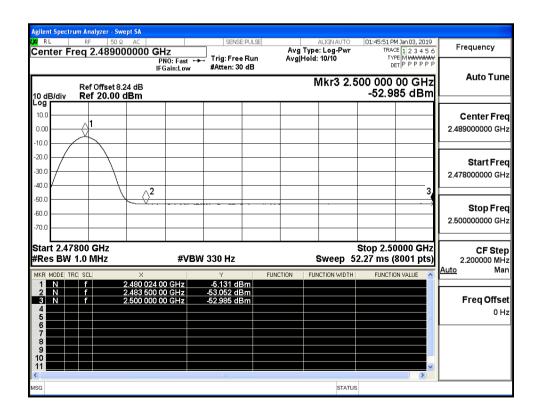
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (Low Channel)



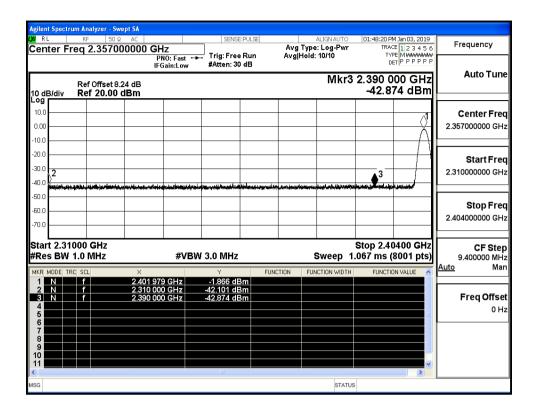
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (High Channel)



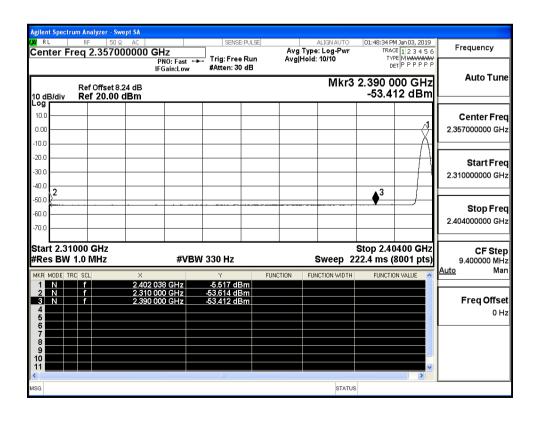
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (High Channel)



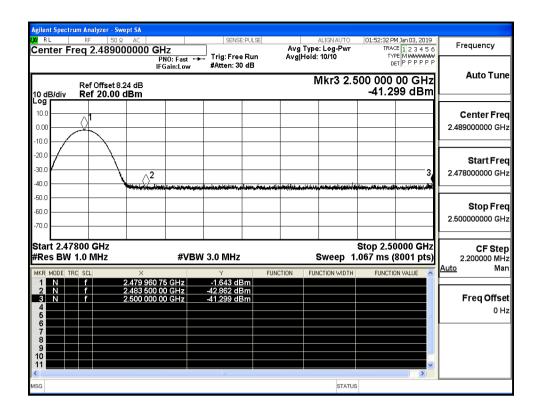
#### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (Low Channel)



#### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_Average (Low Channel)



#### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (High Channel)



#### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_Average (High Channel)

