

TEST REPORT

Product : WisePad 2 Plus
Trade mark : BBPOS
Model/Type reference : WPP23
Serial Number : N/A
Report Number : EED32J00113702
FCC ID : 2AB7X-WPP23
Date of Issue : Jul. 11, 2017
Test Standards : 47 CFR Part 15 Subpart C
Test result : PASS

Prepared for:

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Date:

Jul. 11, 2017

Check No.:2496595088



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2 Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | Jul. 11, 2017 | Original |
| | | |
| | | |

3 Test Summary

| Test Item | Test Requirement | Test method | Result |
|--|--|------------------|--------|
| Antenna Requirement | 47 CFR Part 15 Subpart C Section 15.203/15.247 (c) | ANSI C63.10-2013 | PASS |
| AC Power Line Conducted Emission | 47 CFR Part 15 Subpart C Section 15.207 | ANSI C63.10-2013 | PASS |
| Conducted Peak Output Power | 47 CFR Part 15 Subpart C Section 15.247 (b)(1) | ANSI C63.10-2013 | PASS |
| 20dB Occupied Bandwidth | 47 CFR Part 15 Subpart C Section 15.247 (a)(1) | ANSI C63.10-2013 | PASS |
| Carrier Frequencies Separation | 47 CFR Part 15 Subpart C Section 15.247 (a)(1) | ANSI C63.10-2013 | PASS |
| Hopping Channel Number | 47 CFR Part 15 Subpart C Section 15.247 (b) | ANSI C63.10-2013 | PASS |
| Dwell Time | 47 CFR Part 15 Subpart C Section 15.247 (a)(1) | ANSI C63.10-2013 | PASS |
| Pseudorandom Frequency Hopping Sequence | 47 CFR Part 15 Subpart C Section 15.247(b)(4)&TCB Exclusion List (7 July 2002) | ANSI C63.10-2013 | PASS |
| RF Conducted Spurious Emissions | 47 CFR Part 15 Subpart C Section 15.247(d) | ANSI C63.10-2013 | PASS |
| Radiated Spurious emissions | 47 CFR Part 15 Subpart C Section 15.205/15.209 | ANSI C63.10-2013 | PASS |

Remark:

Test according to ANSI C63.4-2014 & ANSI C63.10-2013.

The tested sample and the sample information are provided by the client.

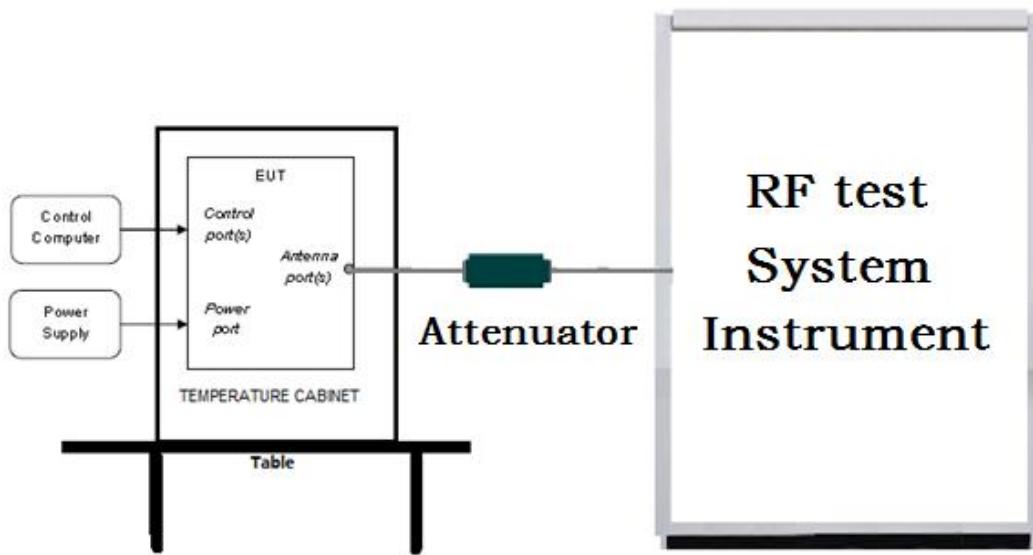
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5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

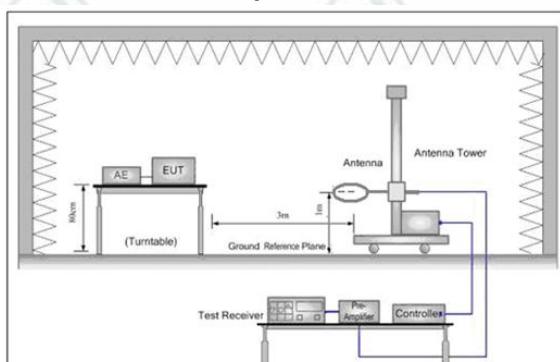


Figure 1. Below 30MHz

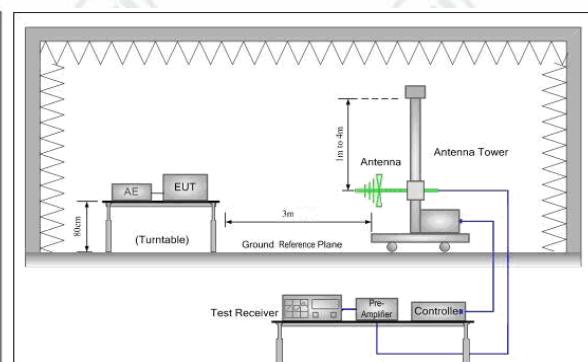


Figure 2. 30MHz to 1GHz

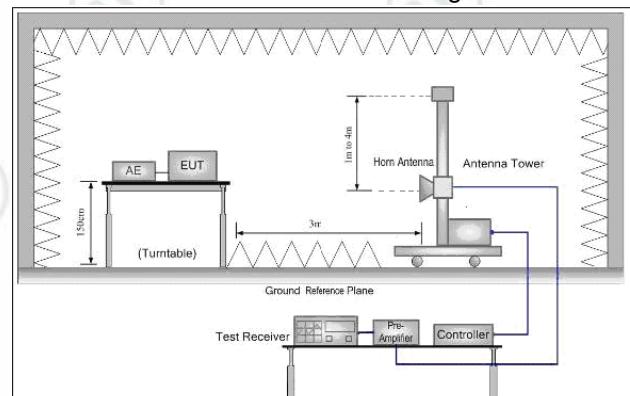
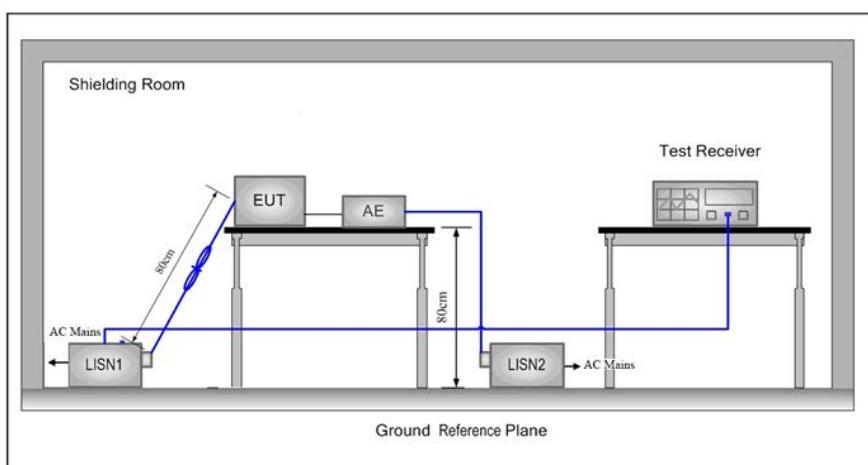


Figure 3. Above 1GHz

5.1.3 For Conducted Emissions test setup

Conducted Emissions setup



5.2 Test Environment

Operating Environment:

| | |
|-----------------------|----------|
| Temperature: | 21°C |
| Humidity: | 54% RH |
| Atmospheric Pressure: | 1010mbar |

5.3 Test Condition

| Test Mode | Tx | RF Channel | | |
|--|-------------------|------------|------------|------------|
| | | Low(L) | Middle(M) | High(H) |
| GFSK/ $\pi/4$ DQPSK/ 8DPSK(DH1,DH3,DH5) | 2402MHz ~2480 MHz | Channel 1 | Channel 40 | Channel 79 |
| | | 2402MHz | 2441MHz | 2480MHz |

Test mode:

Pre-scan under all rate at Highest channel 79

| Mode | GFSK | | |
|------------|-------|-------|-------|
| packets | 1-DH1 | 1-DH3 | 1-DH5 |
| Power(dBm) | 4.910 | 5.022 | 5.195 |

| Mode | $\pi/4$ DQPSK | | |
|------------|---------------|-------|-------|
| packets | 2-DH1 | 2-DH3 | 2-DH5 |
| Power(dBm) | 5.812 | 5.901 | 6.022 |
| Mode | 8DPSK | | |
| packets | 3-DH1 | 3-DH3 | 3-DH5 |
| Power(dBm) | 6.010 | 6.112 | 6.276 |

Through Pre-scan, 1-DH5 packet the power is the worst case of GFSK, 2-DH5 packet the power is the worst case of $\pi/4$ DQPSK, 3-DH5 packet the power is the worst case of 8DPSK,

6 General Information

6.1 Client Information

| | |
|--------------------------|--|
| Applicant: | BBPOS International Limited |
| Address of Applicant: | Suite 1602, 16/F, Tower 2, Nina Tower, No. 8 Yeung Uk Road, Tsuen Wan, NT, Hong Kong |
| Manufacturer: | BBPOS International Limited |
| Address of Manufacturer: | Suite 1602, 16/F, Tower 2, Nina Tower, No. 8 Yeung Uk Road, Tsuen Wan, NT, Hong Kong |

6.2 General Description of EUT

| | |
|----------------------------------|---|
| Product Name: | WisePad 2 Plus |
| Mode No.(EUT): | WPP23 |
| Trade Mark: | BBPOS |
| EUT Supports Radios application: | Bluetooth V2.1+EDR |
| Firmware version of the sample: | 0.06.01.03 |
| Hardware version of the sample: | V1.0.0 |
| Power Supply: | DC 3.7V by Battery DC 5V by USB port |
| Battery | Li-polymer 3.7V, 1300mAh |
| Sample Received Date: | Jun. 7, 2017 |
| Sample tested Date: | Jun. 7, 2017 to Jul. 5, 2017 |

6.3 Product Specification subjective to this standard

| | |
|----------------------|---|
| Operation Frequency: | 2402MHz~2480MHz |
| Bluetooth Version: | Bluetooth V2.1+EDR |
| Modulation Type: | GFSK, π/4DQPSK, 8DPSK |
| Number of Channel: | 79 |
| Sample Type: | Portable |
| Test Power Grade: | N/A |
| Test software of EUT | BBPOS_FCC_0713 (Version: 20160713) comes from the desk of associated laptop |
| Antenna Type: | Monopole |
| Antenna Gain: | 1dBi |
| Test voltage: | DC 3.7V by Battery DC 5V by USB port |

Operation Frequency each of channel

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 1 | 2402MHz | 21 | 2422MHz | 41 | 2442MHz | 61 | 2462MHz |
| 2 | 2403MHz | 22 | 2423MHz | 42 | 2443MHz | 62 | 2463MHz |
| 3 | 2404MHz | 23 | 2424MHz | 43 | 2444MHz | 63 | 2464MHz |
| 4 | 2405MHz | 24 | 2425MHz | 44 | 2445MHz | 64 | 2465MHz |

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| | | | | | | | |
|----|---------|----|---------|----|---------|----|---------|
| 5 | 2406MHz | 25 | 2426MHz | 45 | 2446MHz | 65 | 2466MHz |
| 6 | 2407MHz | 26 | 2427MHz | 46 | 2447MHz | 66 | 2467MHz |
| 7 | 2408MHz | 27 | 2428MHz | 47 | 2448MHz | 67 | 2468MHz |
| 8 | 2409MHz | 28 | 2429MHz | 48 | 2449MHz | 68 | 2469MHz |
| 9 | 2410MHz | 29 | 2430MHz | 49 | 2450MHz | 69 | 2470MHz |
| 10 | 2411MHz | 30 | 2431MHz | 50 | 2451MHz | 70 | 2471MHz |
| 11 | 2412MHz | 31 | 2432MHz | 51 | 2452MHz | 71 | 2472MHz |
| 12 | 2413MHz | 32 | 2433MHz | 52 | 2453MHz | 72 | 2473MHz |
| 13 | 2414MHz | 33 | 2434MHz | 53 | 2454MHz | 73 | 2474MHz |
| 14 | 2415MHz | 34 | 2435MHz | 54 | 2455MHz | 74 | 2475MHz |
| 15 | 2416MHz | 35 | 2436MHz | 55 | 2456MHz | 75 | 2476MHz |
| 16 | 2417MHz | 36 | 2437MHz | 56 | 2457MHz | 76 | 2477MHz |
| 17 | 2418MHz | 37 | 2438MHz | 57 | 2458MHz | 77 | 2478MHz |
| 18 | 2419MHz | 38 | 2439MHz | 58 | 2459MHz | 78 | 2479MHz |
| 19 | 2420MHz | 39 | 2440MHz | 59 | 2460MHz | 79 | 2480MHz |
| 20 | 2421MHz | 40 | 2441MHz | 60 | 2461MHz | | |

6.4 Description of Support Units

The EUT has been tested with associated equipment below.

| Description | Manufacturer | Model No. | Certification | Supplied by |
|-------------|--------------|-----------|---------------|-------------|
| laptop | LENOVO | E46L | FCC DOC | CTI |
| Mouse | L.Selectron | OP-200 | FCC DOC | CTI |

6.5 Test Facility

Test location

The test site a is located on *Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China*.

Test site at Centre Testing International Group Co., Ltd has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 06, 2014.

The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

FCC-Registration No.: 886427

Centre Testing International Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 886427.

6.6 Deviation from Standards

None.

6.7 Abnormalities from Standard Conditions

None.

6.8 Other Information Requested by the Customer

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None.



6.10 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Radio Frequency | 7.9×10^{-8} |
| 2 | RF power, conducted | 0.31dB (30MHz-1GHz) |
| | | 0.57dB (1GHz-18GHz) |
| 3 | Radiated Spurious emission test | 4.5dB (30MHz-1GHz) |
| | | 4.8dB (1GHz-12.75GHz) |
| 4 | Conduction emission | 3.6dB (9kHz to 150kHz) |
| | | 3.2dB (150kHz to 30MHz) |
| 5 | Temperature test | 0.64°C |
| 6 | Humidity test | 2.8% |
| 7 | DC power voltages | 0.025% |

7 Equipment List

| RF test system | | | | | |
|----------------------------------|---------------|------------------------------|---------------|------------------------|----------------------------|
| Equipment | Manufacturer | Mode No. | Serial Number | Cal. Date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| Signal Generator | Keysight | E8257D | MY53401106 | 03-14-2017 | 03-13-2018 |
| Communication test set test set | Agilent | N4010A | MY51400230 | 03-14-2017 | 03-13-2018 |
| Spectrum Analyzer | Keysight | N9010A | MY54510339 | 03-14-2017 | 03-13-2018 |
| Signal Generator | Keysight | N5182B | MY53051549 | 03-14-2017 | 03-13-2018 |
| High-pass filter | Sinoscite | FL3CX03WG18 NM12-0398-002 | --- | 01-12-2017 | 01-11-2018 |
| High-pass filter | MICRO-TRONICS | SPA-F-63029-4 | --- | 01-12-2017 | 01-11-2018 |
| band rejection filter | Sinoscite | FL5CX01CA09C L12-0395-001 | --- | 01-12-2017 | 01-11-2018 |
| band rejection filter | Sinoscite | FL5CX01CA08C L12-0393-001 | --- | 01-12-2017 | 01-11-2018 |
| band rejection filter | Sinoscite | FL5CX02CA04C L12-0396-002 | --- | 01-12-2017 | 01-11-2018 |
| band rejection filter | Sinoscite | FL5CX02CA03C L12-0394-001 | --- | 01-12-2017 | 01-11-2018 |
| DC Power | Keysight | E3642A | MY54436035 | 04-01-2017 | 03-31-2018 |
| PC-1 | Lenovo | R4960d | --- | 04-01-2017 | 03-31-2018 |
| power meter & power sensor | R&S | OSP120 | 101374 | 03-14-2017 | 03-13-2018 |
| RF control unit | JS Tonscend | JS0806-2 | 158060006 | 03-14-2017 | 03-13-2018 |
| BT&WI-FI Automatic test software | JS Tonscend | JS1120-2 | --- | 04-01-2017 | 03-31-2018 |

| Conducted disturbance Test | | | | | |
|---------------------------------|--------------|----------|---------------|------------------------|----------------------------|
| Equipment | Manufacturer | Mode No. | Serial Number | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| Receiver | R&S | ESCI | 100009 | 06-16-2016 | 06-13-2018 |
| Temperature/ Humidity Indicator | TAYLOR | 1451 | 1905 | 04-27-2016 | 05-07-2018 |
| Communication test set | Agilent | E5515C | GB47050534 | 04-01-2016 | 03-13-2018 |
| Communication test set | R&S | CMW500 | 152394 | 04-01-2016 | 03-13-2018 |
| LISN | R&S | ENV216 | 100098 | 06-16-2016 | 06-12-2018 |
| LISN | schwarzbeck | NNLK8121 | 8121-529 | 06-16-2016 | 06-12-2018 |
| Voltage Probe | R&S | ESH2-Z3 | -- | 06-13-2017 | 06-12-2018 |
| Current Probe | R&S | EZ17 | 100106 | 06-16-2016 | 06-12-2018 |
| ISN | TESEQ GmbH | ISN T800 | 30297 | 01-29-2015 | 02-22-2018 |

3M Semi/full-anechoic Chamber

| Equipment | Manufacturer | Mode No. | Serial Number | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
|----------------------------------|---------------|------------------------------|---------------|------------------------|----------------------------|
| 3M Chamber & Accessory Equipment | TDK | SAC-3 | --- | 06-05-2016 | 06-05-2019 |
| TRILOG Broadband Antenna | SCHWARZBECK | VULB9163 | 9163-484 | 05-23-2016 | 05-22-2018 |
| Microwave Preamplifier | Agilent | 8449B | 3008A02425 | 02-04-2016 | 02-15-2018 |
| Horn Antenna | ETS-LINDGREN | 3117 | 00057410 | 06-30-2015 | 06-28-2018 |
| Horn Antenna | A.H.SYSTEMS | SAS-574 | 374 | 06-30-2015 | 06-28-2018 |
| Loop Antenna | ETS | 6502 | 00071730 | 07-30-2015 | 07-28-2017 |
| Spectrum Analyzer | R&S | FSP40 | 100416 | 06-16-2016 | 06-12-2018 |
| Receiver | R&S | ESCI | 100435 | 06-16-2016 | 06-13-2018 |
| Multi device Controller | maturo | NCD/070/10711 112 | --- | 01-12-2016 | 01-11-2018 |
| LISN | schwarzbeck | NNBM8125 | 81251547 | 06-16-2016 | 06-12-2018 |
| LISN | schwarzbeck | NNBM8125 | 81251548 | 06-16-2016 | 06-12-2018 |
| Signal Generator | Agilent | E4438C | MY45095744 | 04-01-2016 | 03-13-2018 |
| Signal Generator | Keysight | E8257D | MY53401106 | 04-01-2016 | 03-13-2018 |
| Temperature/ Humidity Indicator | TAYLOR | 1451 | 1905 | 04-27-2016 | 05-07-2018 |
| Communication test set | Agilent | E5515C | GB47050534 | 04-01-2016 | 03-13-2018 |
| Cable line | Fulai(7M) | SF106 | 5219/6A | 01-12-2016 | 01-11-2018 |
| Cable line | Fulai(6M) | SF106 | 5220/6A | 01-12-2016 | 01-11-2018 |
| Cable line | Fulai(3M) | SF106 | 5216/6A | 01-12-2016 | 01-11-2018 |
| Cable line | Fulai(3M) | SF106 | 5217/6A | 01-12-2016 | 01-11-2018 |
| Communication test set | R&S | CMW500 | 152394 | 04-01-2016 | 03-13-2018 |
| High-pass filter | Sinoscite | FL3CX03WG18 NM12-0398-002 | --- | 01-12-2016 | 01-11-2018 |
| High-pass filter | MICRO-TRONICS | SPA-F-63029-4 | --- | 01-12-2016 | 01-11-2018 |
| band rejection filter | Sinoscite | FL5CX01CA09C L12-0395-001 | --- | 01-12-2016 | 01-11-2018 |
| band rejection filter | Sinoscite | FL5CX01CA08C L12-0393-001 | --- | 01-12-2016 | 01-11-2018 |
| band rejection filter | Sinoscite | FL5CX02CA04C L12-0396-002 | --- | 01-12-2016 | 01-11-2018 |
| band rejection filter | Sinoscite | FL5CX02CA03C L12-0394-001 | --- | 01-12-2016 | 01-11-2018 |

8 Radio Technical Requirements Specification

Reference documents for testing:

| No. | Identity | Document Title |
|-----|--------------------|--|
| 1 | FCC Part15C (2015) | Subpart C-Intentional Radiators |
| 2 | ANSI C63.10-2013 | American National Standard for Testing Unlicensed Wireless Devices |

Test Results List:

| Test requirement | Test method | Test item | Verdict | Note |
|-----------------------------------|-------------|--|---------|-------------|
| Part15C Section 15.247 (a)(1) | ANSI 63.10 | 20dB Occupied Bandwidth | PASS | Appendix A) |
| Part15C Section 15.247 (a)(1) | ANSI 63.10 | Carrier Frequencies Separation | PASS | Appendix B) |
| Part15C Section 15.247 (a)(1) | ANSI 63.10 | Dwell Time | PASS | Appendix C) |
| Part15C Section 15.247 (b) | ANSI 63.10 | Hopping Channel Number | PASS | Appendix D) |
| Part15C Section 15.247 (b)(1) | ANSI 63.10 | Conducted Peak Output Power | PASS | Appendix E) |
| Part15C Section 15.247(d) | ANSI 63.10 | Band-edge for RF Conducted Emissions | PASS | Appendix F) |
| Part15C Section 15.247(d) | ANSI 63.10 | RF Conducted Spurious Emissions | PASS | Appendix G) |
| Part15C Section 15.247 (a)(1) | ANSI 63.10 | Pseudorandom Frequency Hopping Sequence | PASS | Appendix H) |
| Part15C Section 15.203/15.247 (c) | ANSI 63.10 | Antenna Requirement | PASS | Appendix I) |
| Part15C Section 15.207 | ANSI 63.10 | AC Power Line Conducted Emission | PASS | Appendix J) |
| Part15C Section 15.205/15.209 | ANSI 63.10 | Restricted bands around fundamental frequency (Radiated) Emission) | PASS | Appendix K) |
| Part15C Section 15.205/15.209 | ANSI 63.10 | Radiated Spurious Emissions | PASS | Appendix L) |

Appendix A): 20dB Occupied Bandwidth

Test Result

| Mode | Channel. | 20dB Bandwidth [MHz] | 99% OBW [MHz] | Verdict | Remark |
|---------------|----------|-------------------------|---------------|---------|------------------|
| GFSK | LCH | 0.9662 | 0.87592 | PASS | Peak detector |
| GFSK | MCH | 0.9667 | 0.88238 | PASS | |
| GFSK | HCH | 0.9691 | 0.87829 | PASS | |
| $\pi/4$ DQPSK | LCH | 1.2760 | 1.15370 | PASS | |
| $\pi/4$ DQPSK | MCH | 1.2770 | 1.15510 | PASS | |
| $\pi/4$ DQPSK | HCH | 1.2770 | 1.15580 | PASS | |
| 8DPSK | LCH | 1.2580 | 1.15400 | PASS | |
| 8DPSK | MCH | 1.2570 | 1.15580 | PASS | |
| 8DPSK | HCH | 1.2600 | 1.15470 | PASS | |

Test Graph



| | |
|---------------|---|
| TT/4DQPSK/LCH | <p>Center Freq 2.402000000 GHz Occupied Bandwidth 1.1537 MHz Total Power 12.4 dBm</p> |
| TT/4DQPSK/MCH | <p>Center Freq 2.441000000 GHz Occupied Bandwidth 1.1551 MHz Total Power 11.9 dBm</p> |
| TT/4DQPSK/HCH | <p>Center Freq 2.480000000 GHz Occupied Bandwidth 1.1558 MHz Total Power 12.2 dBm</p> |

| | | |
|-----------|--|--|
| | | |
| 8DPSK/LCH | | |
| 8DPSK/MCH | | |
| 8DPSK/HCH | | |

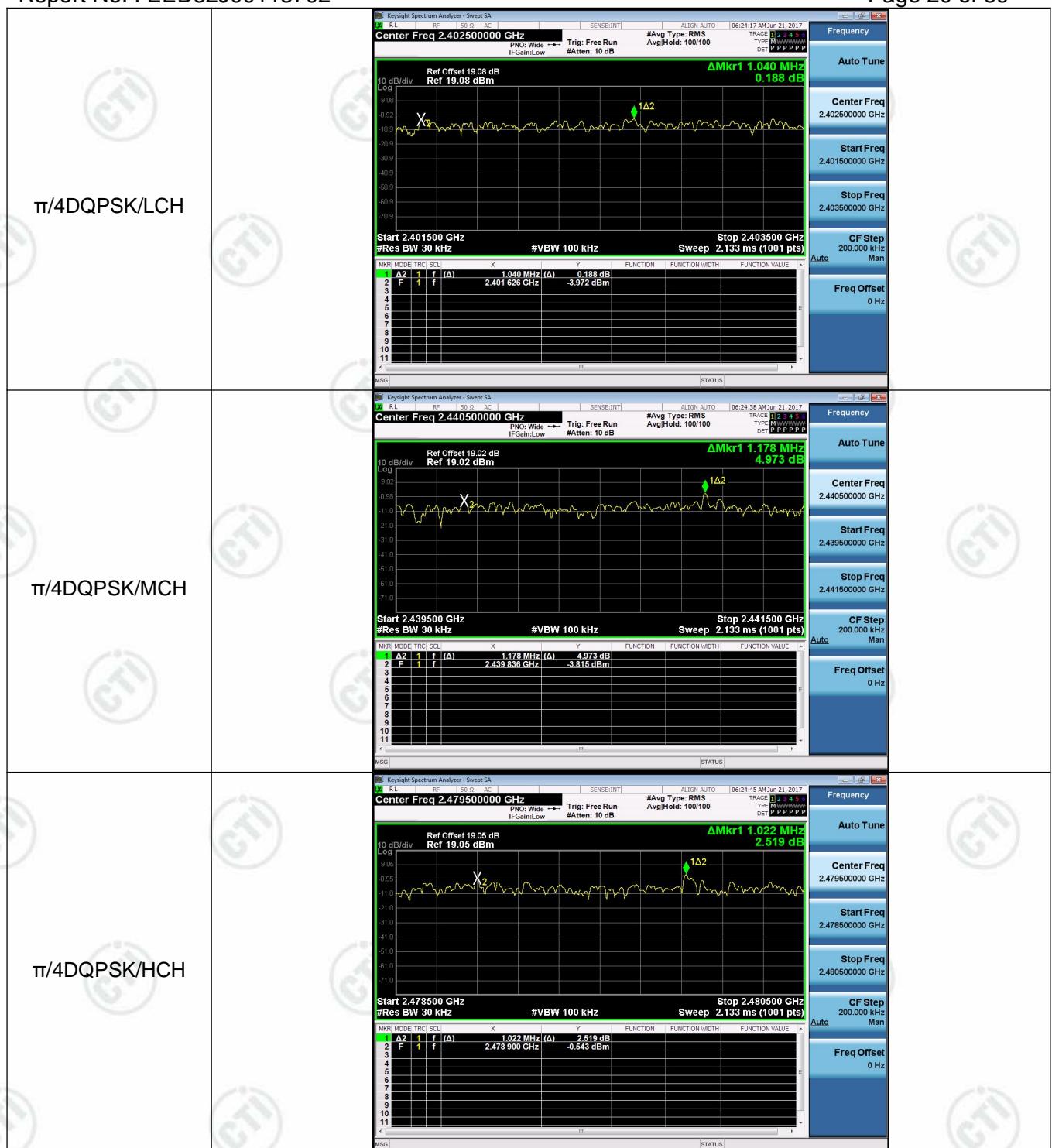
Appendix B): Carrier Frequency Separation

Result Table

| Mode | Channel. | Carrier Frequency Separation [MHz] | Verdict |
|---------------|----------|------------------------------------|---------|
| GFSK | LCH | 1.060 | PASS |
| GFSK | MCH | 0.964 | PASS |
| GFSK | HCH | 1.100 | PASS |
| $\pi/4$ DQPSK | LCH | 1.040 | PASS |
| $\pi/4$ DQPSK | MCH | 1.178 | PASS |
| $\pi/4$ DQPSK | HCH | 1.022 | PASS |
| 8DPSK | LCH | 1.010 | PASS |
| 8DPSK | MCH | 1.024 | PASS |
| 8DPSK | HCH | 1.026 | PASS |

Test Graph



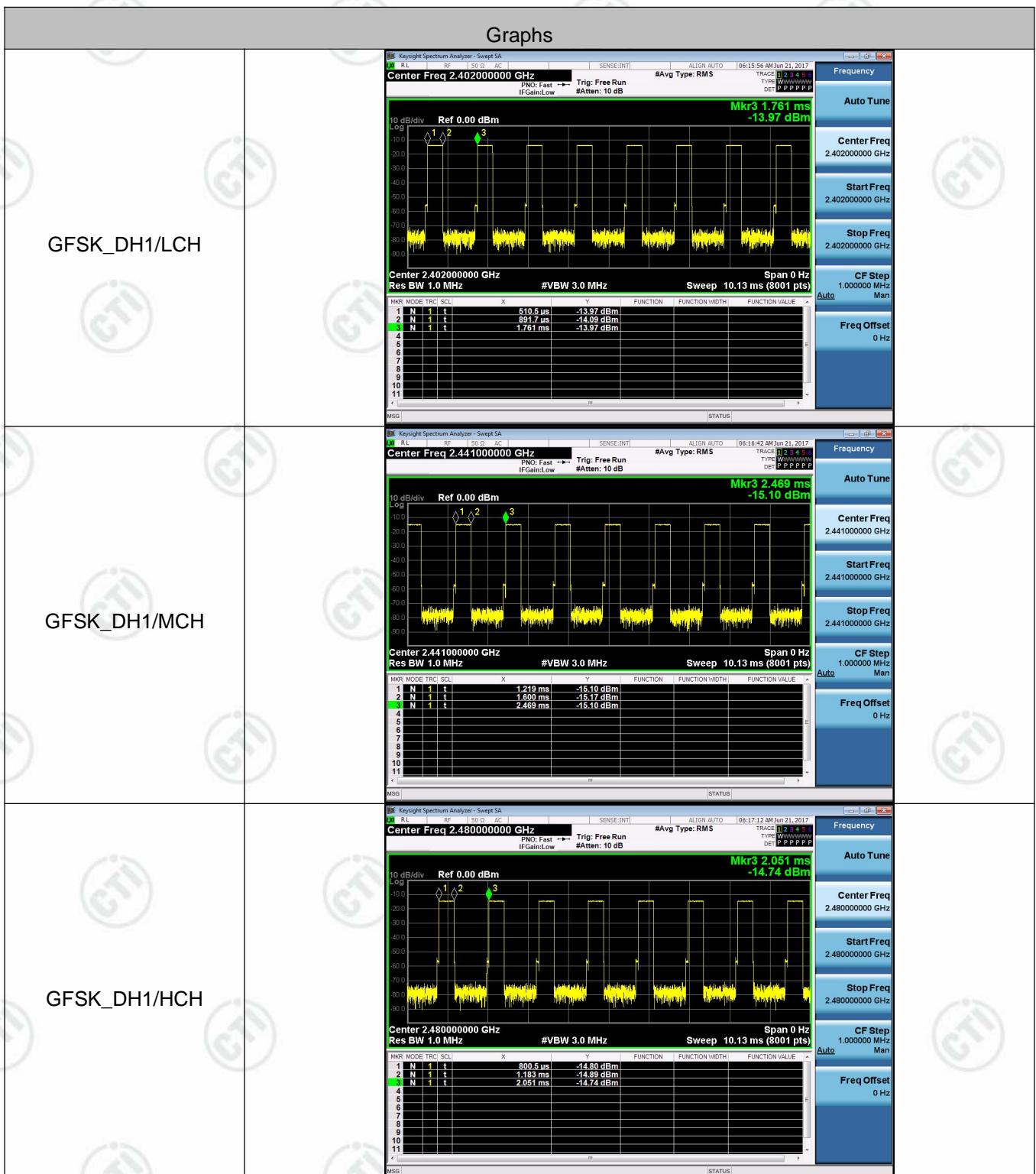


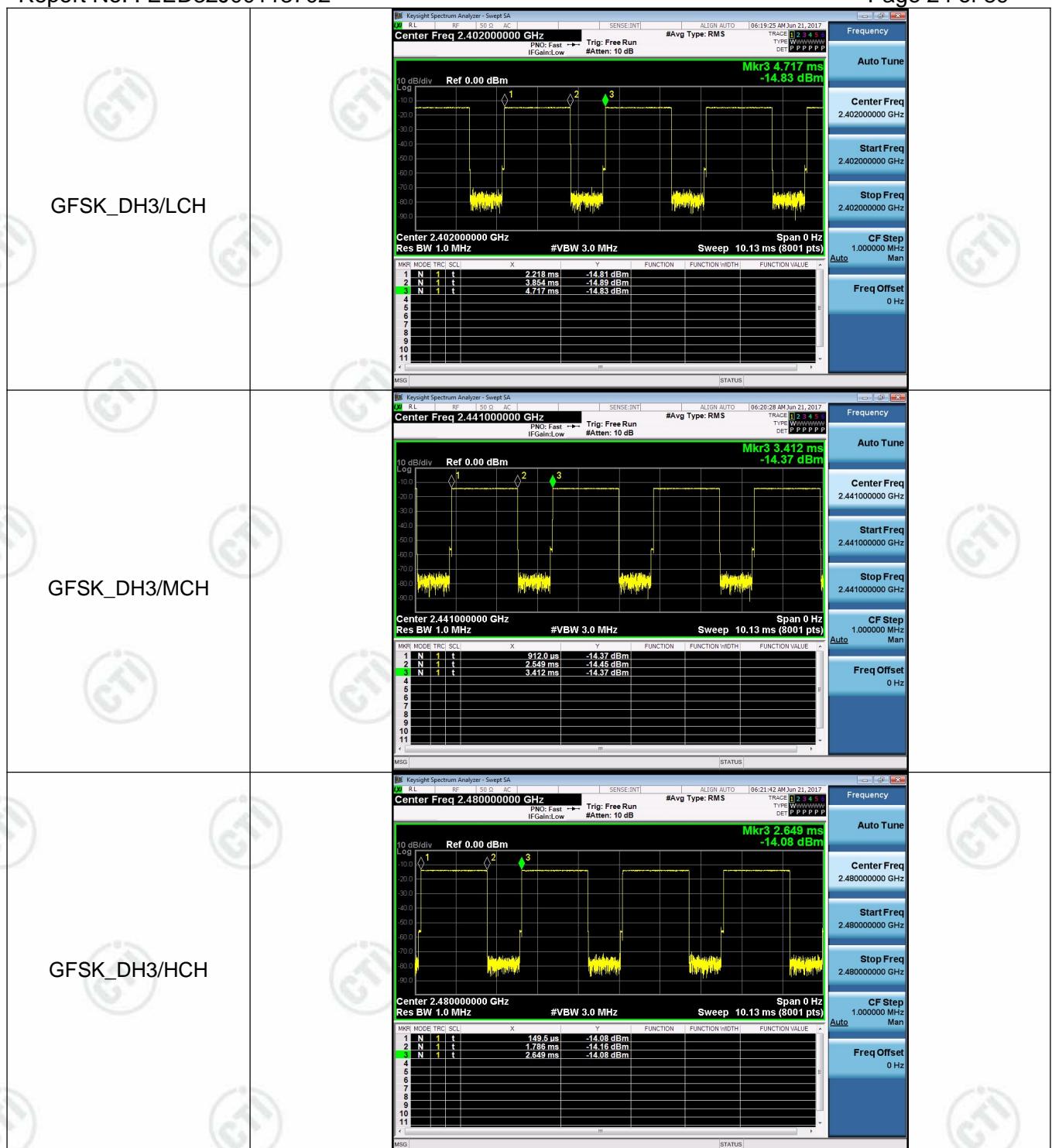


Appendix C): Dwell Time**Result Table**

| Mode | Packet | Channel | Burst Width [ms/hop/ch] | Total Hops[hop*ch] | Dwell Time[s] | Duty Cycle [%] | Verdict |
|------|--------|---------|----------------------------|-----------------------|------------------|-------------------|---------|
| GFSK | DH1 | LCH | 0.381266 | 320 | 0.122 | 30 | PASS |
| GFSK | DH1 | MCH | 0.38127 | 320 | 0.122 | 30 | PASS |
| GFSK | DH1 | HCH | 0.382537 | 320 | 0.122 | 31 | PASS |
| GFSK | DH3 | LCH | 1.63654 | 160 | 0.262 | 65 | PASS |
| GFSK | DH3 | MCH | 1.63653 | 160 | 0.262 | 65 | PASS |
| GFSK | DH3 | HCH | 1.636533 | 160 | 0.262 | 65 | PASS |
| GFSK | DH5 | LCH | 2.88546 | 106.7 | 0.308 | 77 | PASS |
| GFSK | DH5 | MCH | 2.88547 | 106.7 | 0.308 | 77 | PASS |
| GFSK | DH5 | HCH | 2.88546 | 106.7 | 0.308 | 77 | PASS |

Test Graph







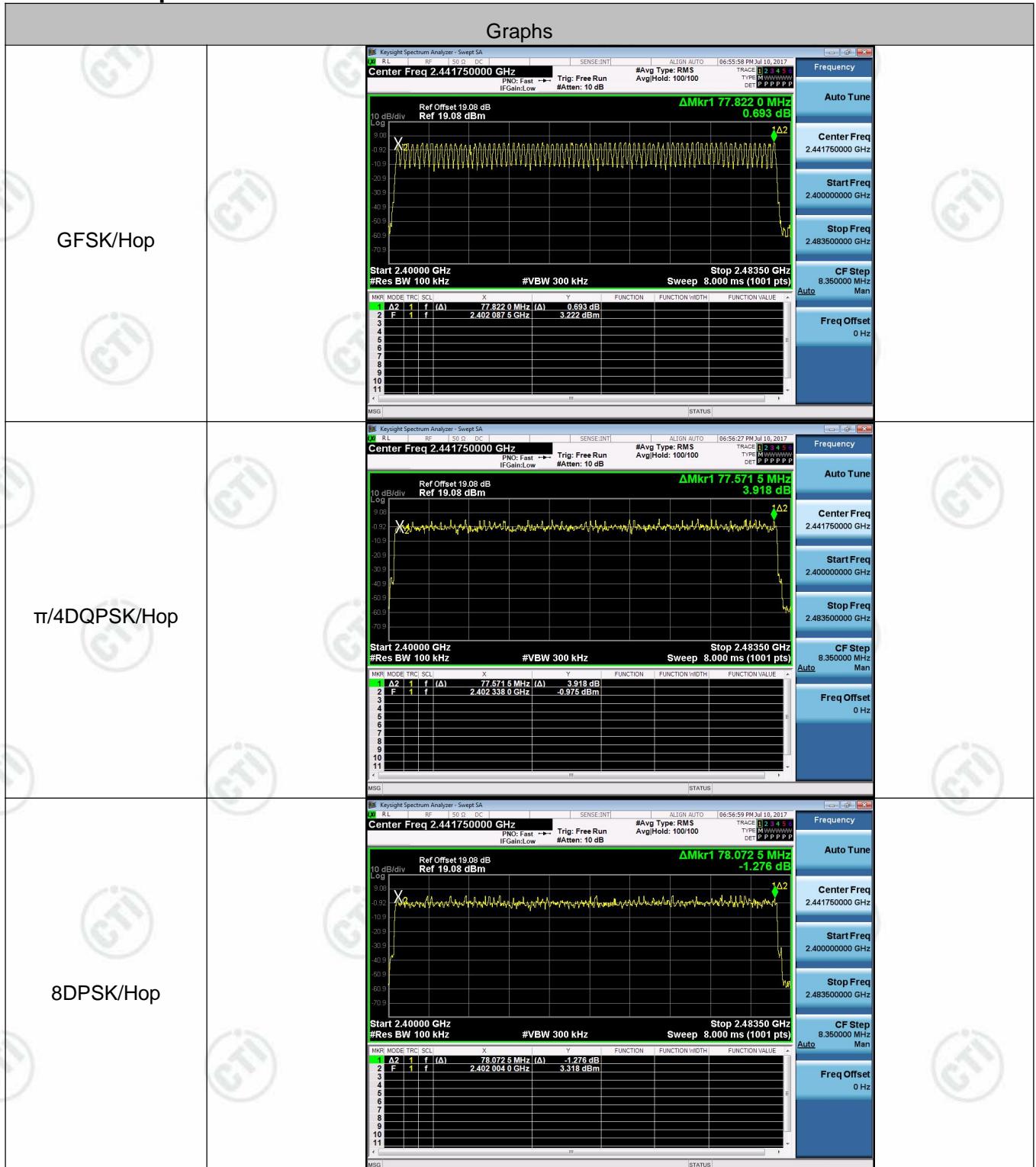
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Appendix D): Hopping Channel Number**Result Table**

| Mode | Channel. | Number of Hopping Channel | Verdict |
|---------------|----------|---------------------------|---------|
| GFSK | Hop | 79 | PASS |
| $\pi/4$ DQPSK | Hop | 79 | PASS |
| 8DPSK | Hop | 79 | PASS |

Test Graph



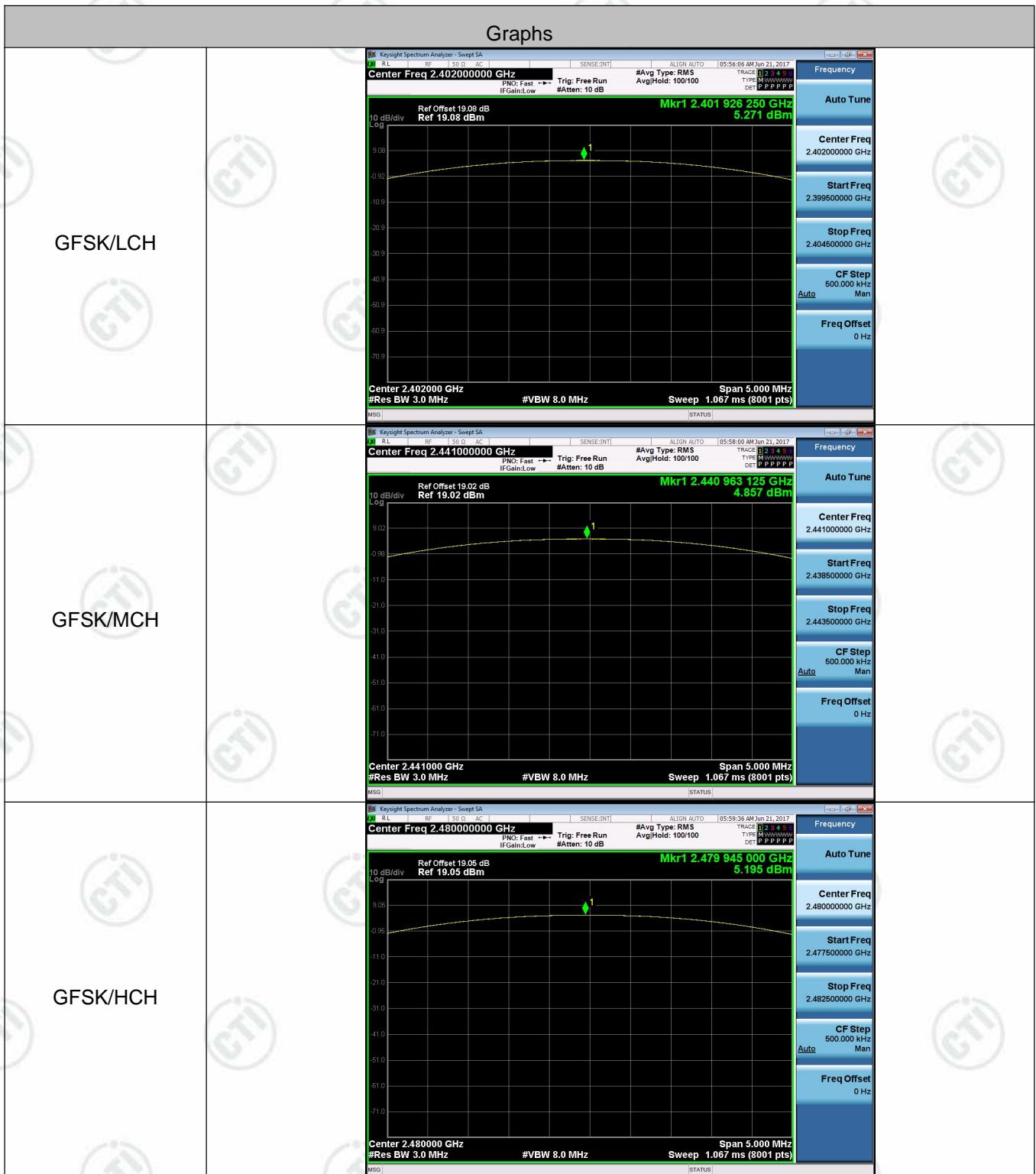
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Appendix E): Conducted Peak Output Power**Result Table**

| Mode | Channel. | Maximum Peak Output Power [dBm] | Verdict |
|---------------|----------|---------------------------------|---------|
| GFSK | LCH | 5.271 | PASS |
| GFSK | MCH | 4.857 | PASS |
| GFSK | HCH | 5.195 | PASS |
| $\pi/4$ DQPSK | LCH | 6.086 | PASS |
| $\pi/4$ DQPSK | MCH | 5.691 | PASS |
| $\pi/4$ DQPSK | HCH | 6.022 | PASS |
| 8DPSK | LCH | 6.372 | PASS |
| 8DPSK | MCH | 5.935 | PASS |
| 8DPSK | HCH | 6.276 | PASS |

Test Graph



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