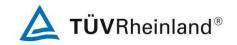






Prüfbericht-Nr.: CN22NAWE (P15C-BT) Auftrags-Nr.: Seite 1 von 29 238542896 Order no.: Page 1 of 29 001 Test report no.: Kunden-Referenz-Nr.: Auftragsdatum: N/A 2022-04-29 Order date: Client reference no.: Auftraggeber: Voyetra Turtle Beach, Inc. Client: 44 South Broadway, 4th Floor, White Plains, New York 10601, U.S.A. Prüfgegenstand: Recon Air Chat Communicator Wireless Test item: Bezeichnung / Typ-Nr.: Recon Air Wireless Chat P-RX & Recon Air Wireless Chat X-RX Identification / Type no.: Auftrags-Inhalt: FCC Part 15C Test report (BT) Order content. Prüfgrundlage: Test specification: FCC 47CFR Part 15: Subpart C Section 15.247 Wareneingangsdatum: 2021-10-15 Date of sample receipt: Prüfmuster-Nr.: A003145666-010 Test sample no: A003162952-039 Prüfzeitraum: 2021-10-18 - 2021-11-19 Testing period: Ort der Prüfung: **EMC/RF** Taipei Testing Place of testing: Site Prüflaboratorium: Taipei Testing Laboratories Testing laboratory: Prüfergebnis\*: **Pass** Test result\*: überprüft von: genehmigt von: compiled by: authorized by: Ausstellungsdatum: Datum: Date: 2022-05-10 Issue date: 2022-05-10 Ryan Chen Brenda Chen Senior Project Manager **Stellung** / Position: Stellung / Position: Senior Project Manager **Sonstiges** / Other: This report is mainly changed the product name and model name, and added FCC ID. The test results are all referred to the original report no.: CN21RLOD (P15C-BT) 001. Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt Condition of the test item at delivery: Test item complete and undamaged \* Legende: 1 = sehr gut 3 = befriedigend 4 = ausreichend 2 = qut5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/T = nicht getestet N/A = nicht anwendbar \* Legend: 1 = very good 2 = good3 = satisfactory 4 = sufficient 5 = poorP(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/T = not testedDieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.



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# **TEST SUMMARY**

| Report<br>Section | FCC Clause                     | Test Item                                  | Result |
|-------------------|--------------------------------|--|--------|
| 5.1.1             | 15.247(b) &<br>15.203          | Antenna Requirement                        | Pass   |
| 5.1.2             | 15.247(b)(1)                   | Peak Output Power                          | Pass   |
| 5.1.3             | 15.247(a)(1)                   | 20 dB Bandwidth                            | Pass   |
| 5.1.3             | 2.1049                         | 99% Occupied Bandwidth                     | Pass   |
| 5.1.4             | 15.247(d)                      | Conducted Spurious Emission and Band Edges | Pass   |
| 5.1.5             | 15.247(d) &<br>15.205 & 15.209 | Radiated Spurious Emissions and Band Edges | Pass   |
| 5.1.6             | 15.247(a)(1)                   | Hopping Channel Separation                 | Pass   |
| 5.1.7             | 15.247(a)(1) (iii)             | Number of Hopping Frequency Used           | Pass   |
| 5.1.8             | 15.247(a)(1) (iii)             | Dwell Time on Each Channel                 | Pass   |
| 5.2.1             | 15.207                         | Mains Conducted Emission                   | Pass   |

#### Note:

- 1. If the Frequency Hopping Systems operating in 2400-2483.5 MHz band and the output power less than 125 mW. The hopping channel carrier frequencies separated by a minimum of 25 kHz or two-thirds of the 20 dB bandwidth of hopping channel whichever is greater.
- 2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.



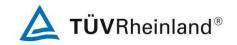
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| 5.1.<br>5.1.            | Bandwidth                                    |  |
| 5.1.                    | 3 20 dB Bandwidth and 99% Occupied Bandwidth |  |
| 5.1.<br>5.1.            |  |  |
| <b>5.1</b> <i>5.1</i> . | TRANSMITTER REQUIREMENT & TEST SUITES        |  |
| 5.                      | TEST RESULTS                                 |  |
| 4.5                     | TEST SETUP DIAGRAM                           |  |
| 4.4                     | SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT  |  |
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| 4.2                     | CARRIER FREQUENCY AND CHANNEL                |  |
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| 4.                      | TEST SET-UP AND OPERATION MODES              |  |
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| Appendix A - Test R                   | ESULT OF CONDUCTED & MAINS CONDUCTED EMISSION |                                |
| APPENDIX B - TEST RE                  | SULT OF RADIATED EMISSIONS                    |                                |
| APPENDIX SP - PHOTO                   | GRAPHS TEST SETUP                             |                                |
| APPENDIX EP - PHOTO                   | GRAPHS OF EUT                                 |                                |
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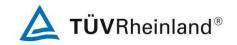
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### **HISTORY OF THIS TEST REPORT**

| Report No.                | Description      | Date Issued | ì |
|---------------------------|------------------|-------------|---|
| CN22NAWE<br>(P15C-BT) 001 | Original Release | 2022-05-10  | Ì |



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# 1. General Remarks

### 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A - Test Result of Conducted & Mains Conducted Emission

**Appendix B - Test Result of Radiated Emissions** 

Appendix SP - Photographs Test Setup

Appendix EP - Photographs of EUT

### **Applied Standard and Test Levels**

#### Radio

FCC 47CFR Part 15: Subpart C Section 15.247 FCC 47CFR Part 2: Subpart J Section 2.1049 ANSI C63.10:2013 KDB 558074 D01 15.247 Meas Guidance v05r02

# 1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.



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# 2. Test Sites

# 2.1 Test Laboratory

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist. Taipei City 105
Taiwan (R.O.C.)

# 2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,

New Taipei City 244 Taiwan (R.O.C.)

FCC Registration No.: 226631 ISED Registration No.: 25563



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# 2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

### 2.4 Calibration

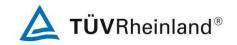
Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

# 2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of k=2 to indicate a 95% level of confidence.

### **Emission Measurement Uncertainty**

| Parameter                            | Uncertainty |
|--------------------------------------|-------------|
| Radiated Emission (9 kHz ~ 30 MHz)   | ± 1.15 dB   |
| Radiated Emission (30 MHz ~ 200 MHz) | ± 1.30 dB   |
| Radiated Emission (200 MHz ~ 1 GHz)  | ± 1.30 dB   |
| Radiated Emission (1 GHz ~ 18 GHz)   | ± 1.54 dB   |
| Radiated Emission (18 GHz ~ 40 GHz)  | ± 2.52 dB   |
| Mains Conducted Emission             | ± 1.65 dB   |



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# 3. General Product Information

# 3.1 Product Function and Intended Use

The EUT is a Recon Air Chat Communicator Wireless. It contains a Bluetooth compatible module enabling the user to communicate data through a Wireless interface. For details refer to the User Guide, Data Sheet and Circuit Diagram.

# 3.2 System Details and Ratings

### **Basic Information of EUT**

| Item                        | EUT information   |
|-----------------------------|---|
| Kind of Equipment/Test Item | Recon Air Chat Communicator Wireless                        |
| Type Identification         | Recon Air Wireless Chat P-RX & Recon Air Wireless Chat X-RX |
| FCC ID                      | XGB-3347RX  |
| 1 66 15                     | XGB-2412RX  |

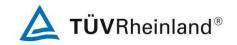
#### Note:

#### 1. All models are listed as below.

| Models                       | FCC ID     | Difference                          |
|------------------------------|------------|-------------------------------------|
| Recon Air Wireless Chat P-RX | XGB-3347RX | Different models and FCC ID are for |
| Recon Air Wireless Chat X-RX | XGB-2412RX | marketing purpose.                  |

### **Technical Specification of EUT**

| Item                      | EUT information                |
|---------------------------|--------------------------------|
| Operating Frequency       | 2402 MHz ~ 2480 MHz            |
| Channel Number            | 79                             |
| Operation Voltage         | USB: 5 Vdc<br>Battery: 3.7 Vdc |
| Modulation                | GFSK, π/4-DQPSK, 8DPSK         |
| Maximum Output Power (mW) | 1.95                           |
| Antenna Information       | Refer to 5.1.1                 |
| Accessory Device          | Refer to 4.4                   |



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# 3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

### 3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description



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# 4. Test Set-up and Operation Modes

# 4.1 Principle of Configuration Selection

The test modes were adapted accordingly in reference to the instructions for use.

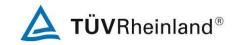
During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output expected by the customer and is going to be fixed on the firmware of the final end product.

### **Table for Parameters of Test Software Setting**

| Fraguenov (MHz) | Power Setting |           |       |  |
|-----------------|---------------|-----------|-------|--|
| Frequency (MHz) | GFSK          | π/4-DQPSK | 8DPSK |  |
| 2402            | 0x07          | 0x07      | 0x07  |  |
| 2441            | 0x07          | 0x07      | 0x07  |  |
| 2480            | 0x07          | 0x07      | 0x07  |  |

# 4.2 Carrier Frequency and Channel

| Channel | Freq. (MHz) |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| 0       | 2402        | 20      | 2422        | 40      | 2442        | 60      | 2462        |
| 1       | 2403        | 21      | 2423        | 41      | 2443        | 61      | 2463        |
| 2       | 2404        | 22      | 2424        | 42      | 2444        | 62      | 2464        |
| 3       | 2405        | 23      | 2425        | 43      | 2445        | 63      | 2465        |
| 4       | 2406        | 24      | 2426        | 44      | 2446        | 64      | 2466        |
| 5       | 2407        | 25      | 2427        | 45      | 2447        | 65      | 2467        |
| 6       | 2408        | 26      | 2428        | 46      | 2448        | 66      | 2468        |
| 7       | 2409        | 27      | 2429        | 47      | 2449        | 67      | 2469        |
| 8       | 2410        | 28      | 2430        | 48      | 2450        | 68      | 2470        |
| 9       | 2411        | 29      | 2431        | 49      | 2451        | 69      | 2471        |
| 10      | 2412        | 30      | 2432        | 50      | 2452        | 70      | 2472        |
| 11      | 2413        | 31      | 2433        | 51      | 2453        | 71      | 2473        |
| 12      | 2414        | 32      | 2434        | 52      | 2454        | 72      | 2474        |
| 13      | 2415        | 33      | 2435        | 53      | 2455        | 73      | 2475        |
| 14      | 2416        | 34      | 2436        | 54      | 2456        | 74      | 2476        |
| 15      | 2417        | 35      | 2437        | 55      | 2457        | 75      | 2477        |
| 16      | 2418        | 36      | 2438        | 56      | 2458        | 76      | 2478        |
| 17      | 2419        | 37      | 2439        | 57      | 2459        | 77      | 2479        |
| 18      | 2420        | 38      | 2440        | 58      | 2460        | 78      | 2480        |
| 19      | 2421        | 39      | 2441        | 59      | 2461        |         |             |



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### 4.3 Test Operation and Test Software

Setup for testing: Test samples are provided with an UART interface which makes it possible to control them through a test software installed on a notebook computer.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed as below.

| Test Software  | AWRDLABV2.exe  |
|----------------|----------------|
| 1 Cot Cortware | 7.001.0012.000 |

The samples were used as follows:

A003145666-010

A003162952-039

Full test was applied on all test modes, but only worst case was shown.

| EUT Configure<br>Mode | Antenna Port<br>Conducted<br>Measurement | Radiated Spurious<br>Emissions above 1<br>GHz | Radiated Spurious<br>Emissions below 1<br>GHz | Mains Conducted<br>Emission | Description |
|-----------------------|--|---|---|-----------------------------|-------------|
| -                     | $\checkmark$                             | $\sqrt{}$                                     | $\sqrt{}$                                     | $\sqrt{}$                   | -           |

#### Note:

- For Radiated emission test, pre-tested GFSK, π/4-DQPSK, 8DPSK modulation type and found 8DPSK was the worse, therefore chosen for the final test and presented in the test report.
- 2. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on **Z-plane**.
- 3. "-" means no effect.

#### **Antenna Port Conducted Measurement**

- Pre-Scan full test was applied on all test modes, but only worst case was shown.
- Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure<br>Mode | Available Frequency (MHz) | Tested Frequency (MHz) | Modulation Type | Packet Type |
|-----------------------|---------------------------|------------------------|-----------------|-------------|
| -                     | 2402 to 2480              | 2402, 2441, 2480       | GFSK            | 1DH5        |
| -                     | 2402 to 2480              | 2402, 2441, 2480       | 8DPSK           | 3DH5        |

#### Radiated Spurious Emissions (Above 1 GHz)

Pre-Scan full test was applied on all test modes, but only worst case was shown.

Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure<br>Mode | Available Frequency (MHz) | Tested Frequency (MHz) | Modulation Type | Packet Type |
|-----------------------|---------------------------|------------------------|-----------------|-------------|
| =                     | 2402 to 2480              | 2402, 2441, 2480       | GFSK            | 1DH5        |
| -                     | 2402 to 2480              | 2402, 2441, 2480       | 8DPSK           | 3DH5        |

#### Radiated Spurious Emissions (Below 1 GHz)

Pre-Scan full test was applied on all test modes, but only worst case was shown.

Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure<br>Mode | Available Frequency (MHz) | Tested Frequency (MHz) | Modulation Type | Packet Type |
|-----------------------|---------------------------|------------------------|-----------------|-------------|
| -                     | 2402 to 2480              | 2480                   | 8DPSK           | 3DH5        |



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#### **Mains Conducted Emission**

Pre-Scan full test was applied on all test modes, but only worst case was shown.

Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure<br>Mode | Available Frequency (MHz) | Tested Frequency (MHz) | Modulation Type | Packet Type |
|-----------------------|---------------------------|------------------------|-----------------|-------------|
| -                     | 2402 to 2480              | 2480                   | 8DPSK           | 3DH5        |

#### **Test Condition**

| Test Item                               | Ambient Temperature | Relative Humidity | Tested by         |
|---|---------------------|-------------------|-------------------|
| Conducted Measurement                   | 23.1 °C             | 60 %              | Stanislas Charles |
| Radiated Spurious Emissions above 1 GHz | 24.1-25.5 °C        | 53-54 %           | Ivan Chiang       |
| Radiated Spurious Emissions below 1 GHz | 24.1-25.5 °C        | 53-54 %           | Ivan Chiang       |
| Mains Conducted Emission                | 23.6-24.1 °C        | 49-52 %           | Ray Huang         |

# 4.4 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

### **Accessory of EUT**

| No. | Product              | Brand        | Model           | Description |
|-----|----------------------|--------------|-----------------|-------------|
| -   | USB-C Charging Cable | Turtle Beach | Recon Air Cable | -           |

### **Support Unit**

|    | Support Unit |        |             |            |          |                          |             |                    |
|----|--------------|--------|-------------|------------|----------|--------------------------|-------------|--------------------|
| No | Description  | Brand  | Model       | S/N        | Shielded | Ferrite<br>Core<br>(Qty) | Length (cm) | Remark             |
| Α  | DC Cable     | Ampacs | N/A         | N/A        | NO       | 0                        | 9           |                    |
| 1  | UART         | TUV    | CP2102      | N/A        | -        | -                        | -           |                    |
| 2  | USB Cable    | TUV    | TUV-001     | N/A        | YES      | NO                       | 300         | Radiated           |
| 3  | Type C Cable | TUV    | TUV-006     | N/A        | YES      | NO                       | 95          | Radiated           |
| 4  | USB Cable    | TUV    | TUV-003     | N/A        | YES      | NO                       | 175         |                    |
| 5  | Notebook     | HP     | 15-DA1046TX | CND911MY2  | -        | -                        | -           |                    |
| Α  | DC Cable     | Ampacs | N/A         | N/A        | NO       | 0                        | 9           | Maine              |
| 1  | Notebook     | Lenovo | TP00094A    | SL10Q37402 | -        | -                        | -           | Mains<br>Conducted |
| 2  | UART         | TUV    | CP2102      | N/A        | -        | -                        | -           | Oorlaactea         |

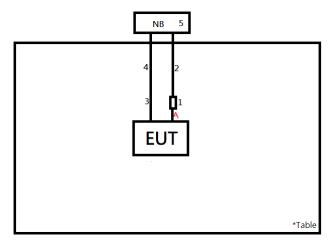


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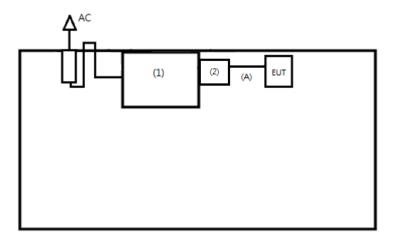
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# 4.5 Test Setup Diagram

<Radiated Spurious Emissions mode>



<Mains Conducted Emission mode>





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### 5. Test Results

# 5.1 Transmitter Requirement & Test Suites

### 5.1.1 Antenna Requirement

**Requirement** Use of approved antennas only

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 1.9 dBi. The antenna is a chip antenna with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision. Refer to EUT photo for details.



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### 5.1.2 Peak Output Power

#### Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

**Kind of Test Site** 

Shielded room

**Test Setup** 



#### **Test Instruments**

| Kind of      | Manufacturer | Type    | S/N     | Calibration | Calibration | Test       | Date       |
|--------------|--------------|---------|---------|-------------|-------------|------------|------------|
| Equipment    | Manufacturer | Type    | 3/14    | Date        | Due Date    | From       | Until      |
| Power Meter  | Anritsu      | ML2495A | 1901008 | 2021/3/24   | 2022/3/23   | 2021/10/18 | 2021/10/18 |
| Power Sensor | Anritsu      | MA2411B | 1725269 | 2021/3/24   | 2022/3/23   | 2021/10/18 | 2021/10/18 |

#### **Test Procedures**

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.



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#### **Test Result**

### **Peak Output Power**

### <GFSK>

| Channel        | Channel<br>Frequency | Peak Output Power |       | Limit |
|----------------|----------------------|-------------------|-------|-------|
|                | (MHz)                | (dBm)             | (mW)  | (mW)  |
| Low Channel    | 2402                 | -0.02             | 0.995 | 125   |
| Middle Channel | 2441                 | -0.10             | 0.977 | 125   |
| High Channel   | 2480                 | -0.18             | 0.959 | 125   |

#### <8DPSK>

| Channel        | Channel<br>Frequency | Peak Output Power |       | Limit |
|----------------|----------------------|-------------------|-------|-------|
|                | (MHz)                | (dBm)             | (mW)  | (mW)  |
| Low Channel    | 2402                 | 2.47              | 1.766 | 125   |
| Middle Channel | 2441                 | 2.40              | 1.738 | 125   |
| High Channel   | 2480                 | 2.90              | 1.950 | 125   |

### **Average Power**

#### <GFSK>

| Channel        | Channel<br>Frequency | Average Power |       |
|----------------|----------------------|---------------|-------|
|                | (MHz)                | (dBm)         | (mW)  |
| Low Channel    | 2402                 | -0.09         | 0.979 |
| Middle Channel | 2441                 | -0.16         | 0.964 |
| High Channel   | 2480                 | -0.25         | 0.944 |

#### <8DPSK>

| Channel        | Channel<br>Frequency | Average Power |       |  |
|----------------|----------------------|---------------|-------|--|
|                | (MHz)                | (dBm)         | (mW)  |  |
| Low Channel    | 2402                 | -0.16         | 0.964 |  |
| Middle Channel | 2441                 | -0.23         | 0.948 |  |
| High Channel   | 2480                 | -0.31         | 0.931 |  |



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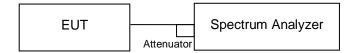
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Test Report No.

### 5.1.3 20 dB Bandwidth and 99% Occupied Bandwidth

Kind of Test Site Shielded room

**Test Setup** 



#### **Test Instruments**

| Kind of              | Manufacturer | Tuno  | S/N    | Calibration | Calibration | Test       | Date       |
|----------------------|--------------|-------|--------|-------------|-------------|------------|------------|
| Equipment            | Manufacturer | Type  | 3/IV   | Date        | Due Date    | From       | Until      |
| Spectrum<br>Analyzer | R&S          | FSV40 | 101512 | 2021/1/29   | 2022/1/28   | 2021/10/18 | 2021/10/18 |

#### **Test Procedure**

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.
- e. The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1 % to 5 % of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to PEAK. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

#### **Test Results**



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# 5.1.4 Conducted Spurious Emissions and Frequency Band Edges Measured in 100kHz Bandwidth

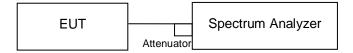
#### Limit

20dB (below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.)

**Kind of Test Site** 

Shielded room

**Test Setup** 



#### **Test Instruments**

| Kind of              | Manufacturer Type | /pe S/N C |        | Calibration | Test      | Date       |            |
|----------------------|-------------------|-----------|--------|-------------|-----------|------------|------------|
| Equipment            | Mariuracturer     | Type      | 3/11   | Date        | Due Date  | From       | Until      |
| Spectrum<br>Analyzer | R&S               | FSV40     | 101512 | 2021/1/29   | 2022/1/28 | 2021/10/18 | 2021/10/18 |

#### **Test Procedure**

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz and 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

#### **Test Results**



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### 5.1.5 Radiated Spurious Emissions and Band Edges

#### Limit

Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

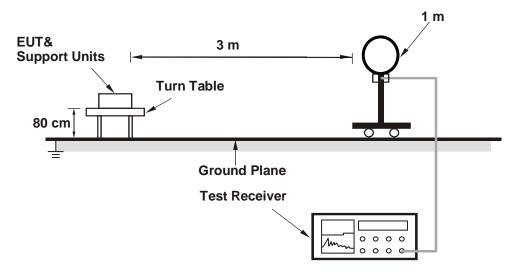
Emissions radiated outside the restricted and authorized frequency bands must either comply with the radiated emission limits specified for the restricted bands or in §15.247(d).

**Kind of Test Site** 

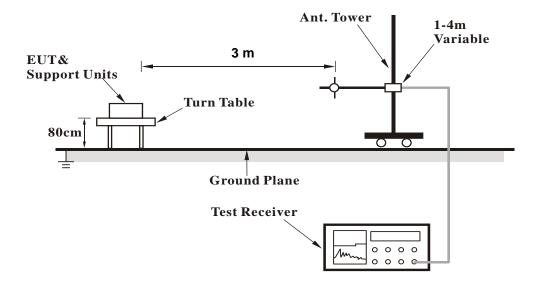
3m Semi-Anechoic Chamber

#### **Test Setup**

#### <Radiated Emissions below 30 MHz>



#### <Radiated Emissions 30 MHz to 1 GHz>



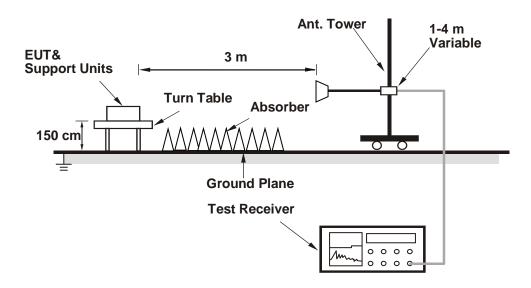


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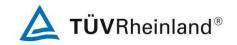
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#### <Radiated Emissions above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).



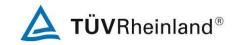
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#### **Test Instruments**

| Kind of<br>Equipment | Manufacturer | Туре              | S/N        | Calibration<br>Date | Calibration<br>Due Date |
|----------------------|--------------|-------------------|------------|---------------------|-------------------------|
| Signal Analyzer      | R&S          | FSV40             | 101508     | 2021/3/16           | 2022/3/15               |
| Receiver             | R&S          | ESR7              | 102109     | 2021/3/16           | 2022/3/15               |
| Bilog Antenna        | SCHWARZBECK  | VULB-9168         | 00951      | 2021/2/18           | 2022/2/17               |
| Horn Antenna         | ETS-Lindgren | 3117              | 00218930   | 2020/12/1           | 2021/11/30              |
| LF-AMP               | Agilent      | 8447D             | 2944A10772 | 2021/2/18           | 2022/2/17               |
| HF-AMP + AC source   | EMCI         | EMC051845SE       | 980633     | 2021/2/9            | 2022/2/8                |
| HF-AMP + AC source   | EMCI         | EMC184045SE       | 980657     | 2021/2/1            | 2022/1/31               |
| Horn Antenna         | SCHWARZBECK  | BBHA 9170         | 00887      | 2021/4/8            | 2022/4/7                |
| Microwave<br>Cable   | HUBER+SUHNER | SUCOFLEX<br>104EA | 800056/4EA | 2021/3/17           | 2022/3/16               |
| Microwave<br>Cable   | HUBER+SUHNER | SUCOFLEX<br>104   | 804680/4   | 2021/3/17           | 2022/3/16               |
| Microwave<br>Cable   | HUBER+SUHNER | SUCOFLEX<br>104   | MY37202/4  | 2021/3/17           | 2022/3/16               |
| Microwave<br>Cable   | HUBER+SUHNER | SUCOFLEX<br>102EA | 800898/2EA | 2021/4/16           | 2022/4/15               |
| Microwave<br>Cable   | HUBER+SUHNER | SUCOFLEX<br>102EA | 800901/2EA | 2021/4/16           | 2022/4/15               |
| Microwave<br>Cable   | HUBER+SUHNER | SUCOFLEX<br>102EA | 801027/2EA | 2021/4/16           | 2022/4/15               |
| Loop Antenna         | SCHWARZBECK  | FNZB1519B         | 00215      | 2021/9/17           | 2022/9/16               |



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#### **Test Procedures**

#### For Radiated Emissions below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

#### Note:

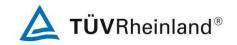
- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
- 2. All modes of operation were investigated and the worst-case emissions are reported.

#### For Radiated Emissions above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

#### Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98 %) or 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz.
- 4. For fundamental frequency: The average value is "Average = Peak value + 20log(Duty cycle)
  Where the duty factor is calculated from following formula for DH5 packet type which has worst duty
  factor:
  - 20log (Duty cycle) = 20log (dwell time / 100ms) = 20log (3.125 / 100) = -30.1 dB
- 5. All modes of operation were investigated and the worst-case emissions are reported.



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worst-case Axis orientation is recorded in this test report.

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6. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The

### Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)



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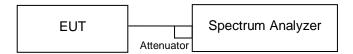
Test Report No.

### 5.1.6 Hopping Channel Separation

Limit ≥ 25 kHz or 2/3 of 20 dB bandwidth, whichever is greater

Kind of Test Site Shielded room

**Test Setup** 



### **Test Instruments**

| Kind of              | Manufacturer | Type  | S/N    | Calibration | Calibration | Test       | Date       |
|----------------------|--------------|-------|--------|-------------|-------------|------------|------------|
| Equipment            | Manufacturer | Type  | 3/IV   | Date        | Due Date    | From       | Until      |
| Spectrum<br>Analyzer | R&S          | FSV40 | 101512 | 2021/1/29   | 2022/1/28   | 2021/10/18 | 2021/10/18 |

#### **Test Procedure**

Measurement Procedure REF

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
- c. By using the MaxHold function record the separation of two adjacent channels.
- d. Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.
- e. Repeat above procedures until all frequencies measured were complete.

#### **Test Results**



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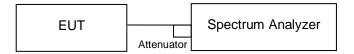
Test Report No.

### **5.1.7 Number of Hopping Frequency**

**Limit** ≥15 non-overlapping channels

Kind of Test Site Shielded room

**Test Setup** 



#### **Test Instruments**

| Kind of              | Manufacturer   Type | Type S/N |        | Calibration | Test      | Date       |            |
|----------------------|---------------------|----------|--------|-------------|-----------|------------|------------|
| Equipment            | iviariuraciurei     | Type S/  | 3/11   | Date        | Due Date  | From       | Until      |
| Spectrum<br>Analyzer | R&S                 | FSV40    | 101512 | 2021/1/29   | 2022/1/28 | 2021/10/18 | 2021/10/18 |

#### **Test Procedure**

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- d. Set the SA on View mode and then plot the result on SA screen.
- e. Repeat above procedures until all frequencies measured were complete.

#### **Test Results**



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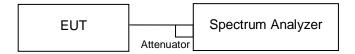
Test Report No.

#### 5.1.8 Dwell Time

Limit 0.4s

Kind of Test Site Shielded room

**Test Setup** 



#### **Test Instruments**

| ſ | Kind of              | Manufacturer | Type  | C/NI     | Calibration | Calibration | Test       | Date       |
|---|----------------------|--------------|-------|----------|-------------|-------------|------------|------------|
|   | Equipment            | Manufacturer | туре  | Type S/N | Date        | Due Date    | From       | Until      |
|   | Spectrum<br>Analyzer | R&S          | FSV40 | 101512   | 2021/1/29   | 2022/1/28   | 2021/10/18 | 2021/10/18 |

#### **Test Procedures**

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- d. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- e. Repeat above procedures until all different time-slot modes have been completed.

#### **Test Results**



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Test Report No.

# 5.2 Mains Emission

### 5.2.1 Mains Conducted Emission

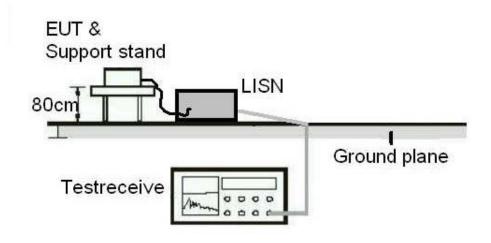
#### Limit

Mains Conducted Emission as defined in §15.207 must comply with the mains conducted emission limits.

**Kind of Test Site** 

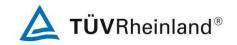
Shielded room

**Test Setup** 



#### **Test Instruments**

| Kind of<br>Equipment   | Manufacturer       | Туре   | S/N     | Calibration<br>Date | Calibration<br>Due Date |
|------------------------|--------------------|--------|---------|---------------------|-------------------------|
| RF Cable               | N/A                | N/A    | EMC-003 | 2021/3/16           | 2022/3/15               |
| Two-Line V-<br>Network | Rohde &<br>Schwarz | ENV216 | 101938  | 2021/9/23           | 2022/9/22               |
| EMI Test<br>Receiver   | R&S                | ESCI   | 1816063 | 2021/11/15          | 2022/11/14              |



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### Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

#### **Test Results**



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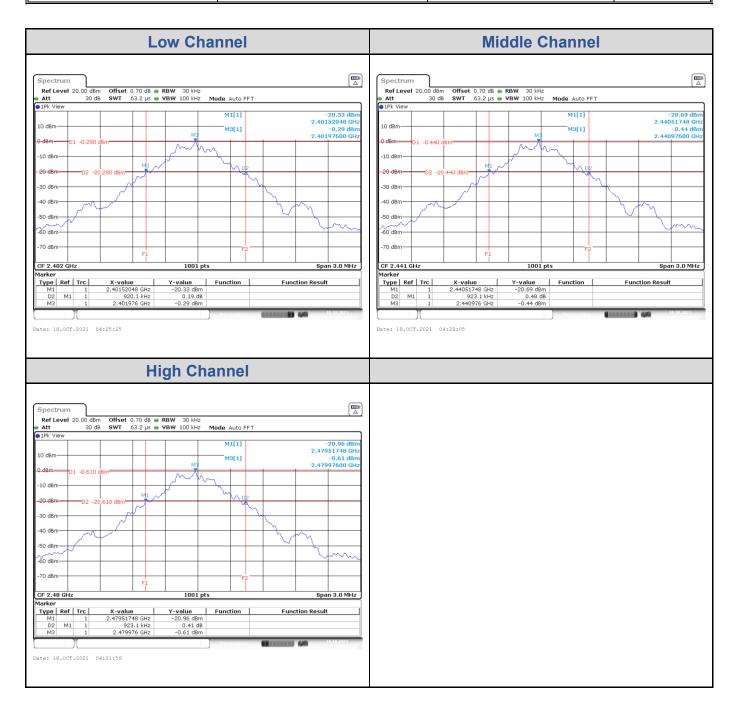
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# **Appendix A: Test Results of Conducted Test**

### Test Result of 20 dB Bandwidth

### **GFSK**

| Channel        | Channel Frequency (MHz) | 20 dB Bandwidth (kHz) | Result |
|----------------|-------------------------|-----------------------|--------|
| Low Channel    | 2402                    | 920.10                | Pass   |
| Middle Channel | 2441                    | 923.10                | Pass   |
| High Channel   | 2480                    | 923.10                | Pass   |





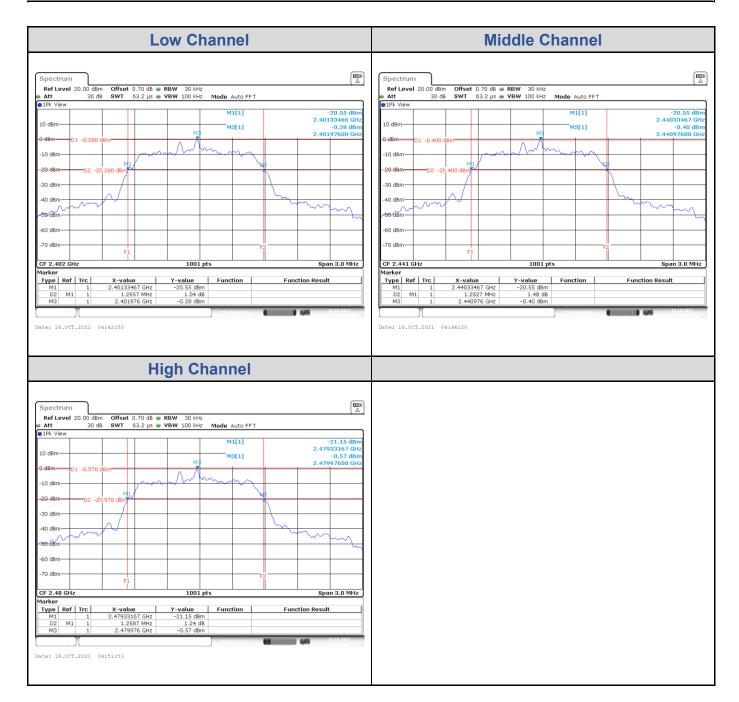
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#### 8DPSK

| Channel        | Channel Frequency (MHz) | 20 dB Bandwidth (kHz) | Result |
|----------------|-------------------------|-----------------------|--------|
| Low Channel    | 2402                    | 1255.70               | Pass   |
| Middle Channel | 2441                    | 1252.70               | Pass   |
| High Channel   | 2480                    | 1258.70               | Pass   |





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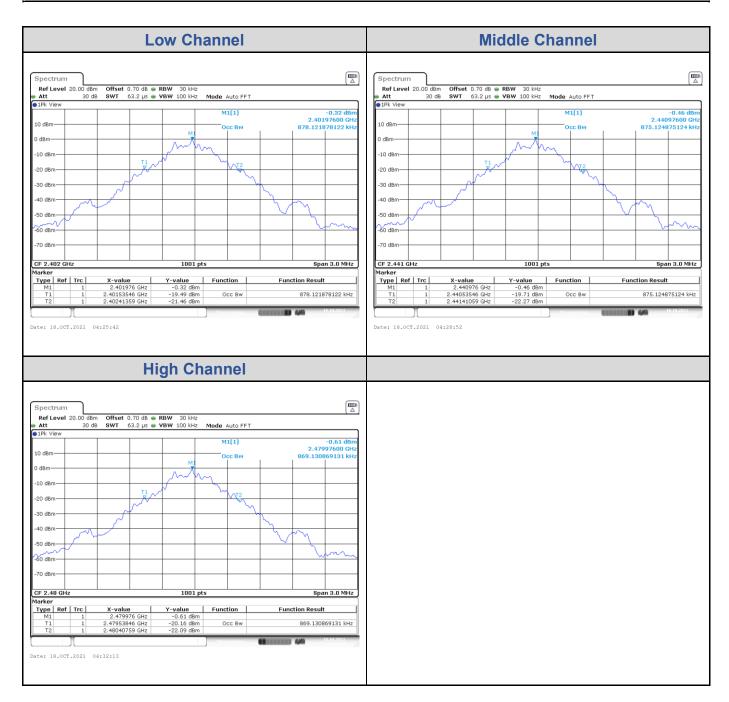
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# **Test Result of 99% Occupied Bandwidth**

### **GFSK**

| Channel        | Channel Frequency (MHz) | 99% Bandwidth (kHz) |
|----------------|-------------------------|---------------------|
| Low Channel    | 2402                    | 878.12              |
| Middle Channel | 2441                    | 875.12              |
| High Channel   | 2480                    | 869.13              |





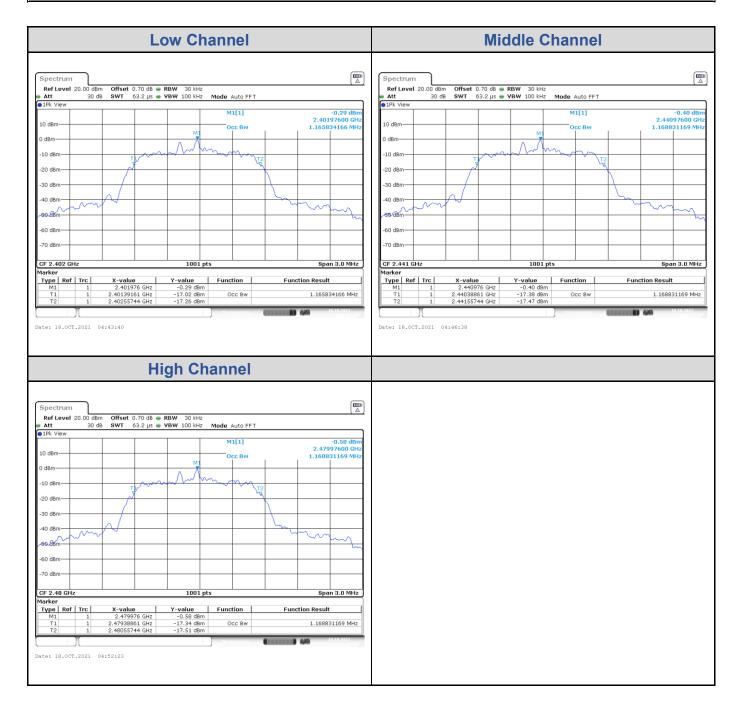
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#### 8DPSK

| Channel        | Channel Frequency (MHz) | 99% Bandwidth (kHz) |
|----------------|-------------------------|---------------------|
| Low Channel    | 2402                    | 1165.83             |
| Middle Channel | 2441                    | 1168.83             |
| High Channel   | 2480                    | 1168.83             |

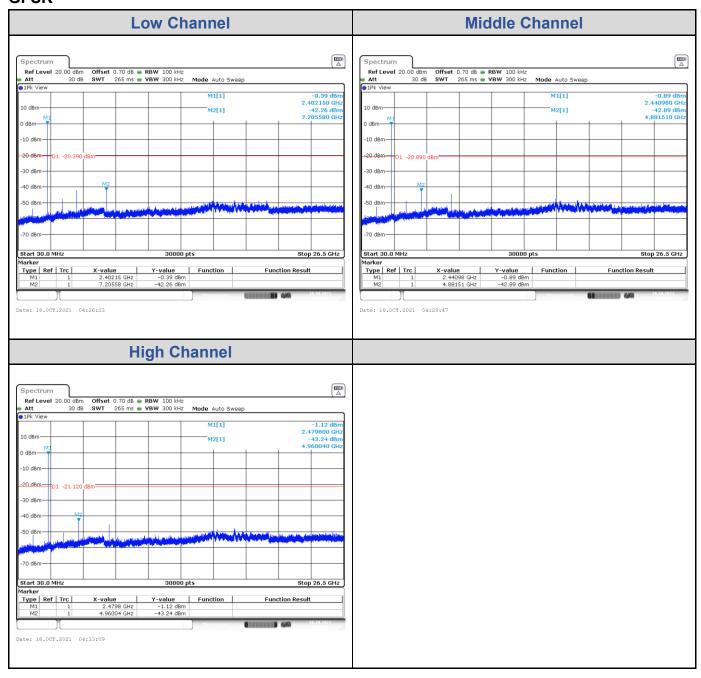




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### **Test Result of Conducted Spurious Emissions, Tx Mode GFSK**



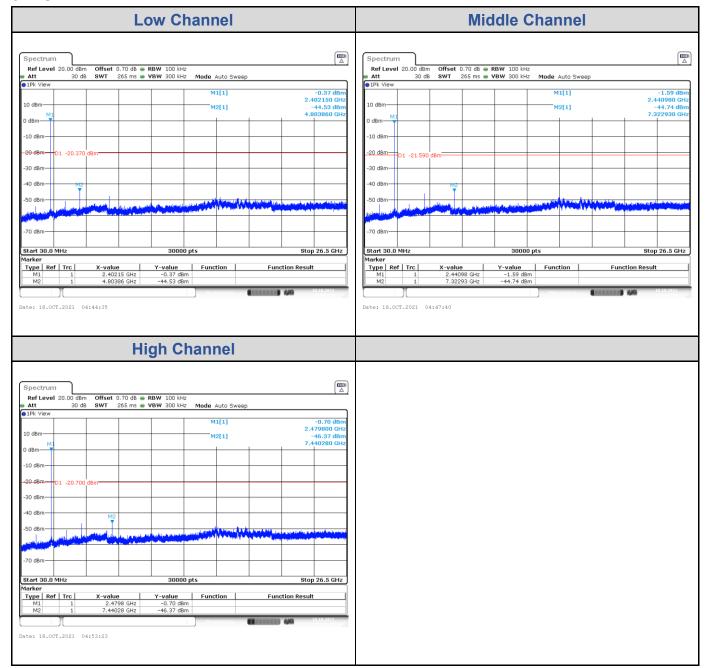


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#### 8DPSK



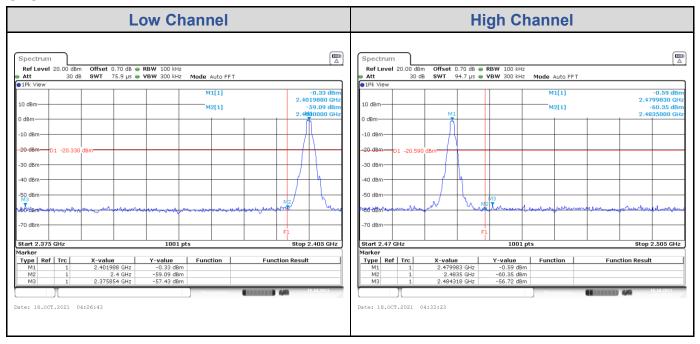


Prüfbericht - Nr.: Test Report No.

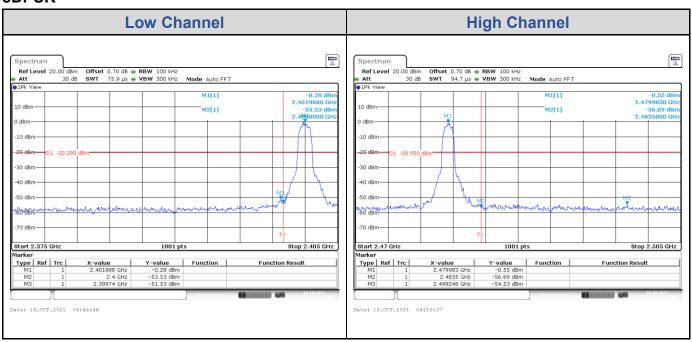
# **CN22NAWE (P15C-BT) 001**

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# **Test Result of Conducted Band Edge, Tx Mode GFSK**



#### 8DPSK

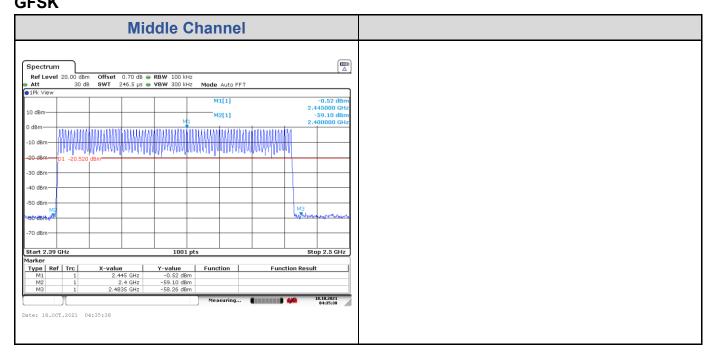




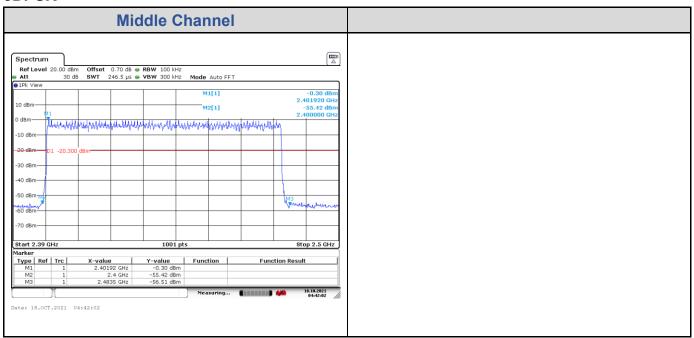
## **CN22NAWE (P15C-BT) 001**

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# **Test Result of Hopping Band Edge GFSK**



#### 8DPSK



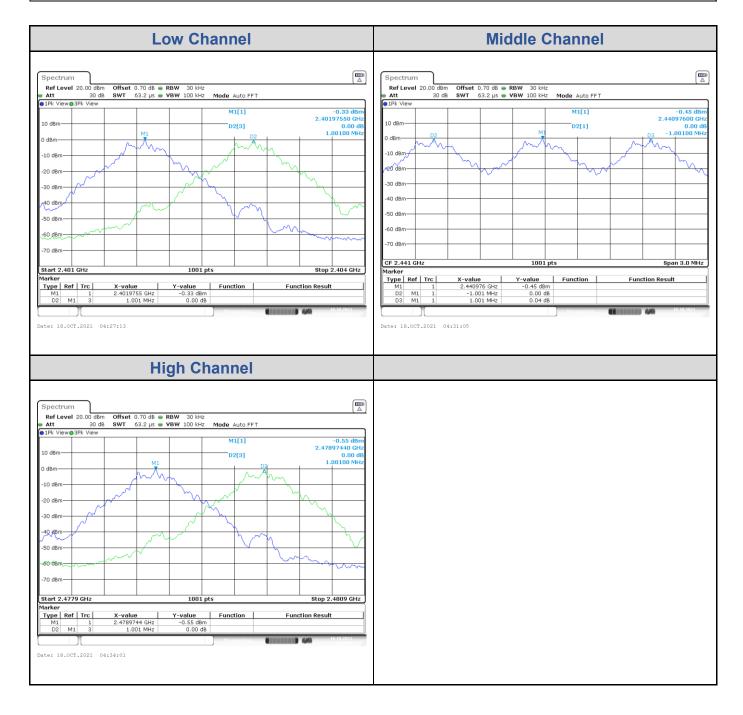


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# **Test Result of Hopping Channel Separation GFSK**

| Channel | Channel<br>Frequency<br>(MHz) | Adjacent<br>Channel<br>Separation<br>(MHz) | 20 dB<br>Bandwidth<br>(kHz) | Minimum<br>Limit<br>(MHz) | Result |
|---------|-------------------------------|--|-----------------------------|---------------------------|--------|
| 0       | 2402                          | 1.00                                       | 920.10                      | 0.613                     | Pass   |
| 39      | 2441                          | 1.00                                       | 923.10                      | 0.615                     | Pass   |
| 78      | 2480                          | 1.00                                       | 923.10                      | 0.615                     | Pass   |





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#### 8DPSK

| Channel | Channel<br>Frequency<br>(MHz) | Adjacent<br>Channel<br>Separation<br>(MHz) | 20 dB<br>Bandwidth<br>(kHz) | Minimum<br>Limit<br>(MHz) | Result |
|---------|-------------------------------|--|-----------------------------|---------------------------|--------|
| 0       | 2402                          | 1.00                                       | 1255.70                     | 0.837                     | Pass   |
| 39      | 2441                          | 1.00                                       | 1252.70                     | 0.835                     | Pass   |
| 78      | 2480                          | 1.00                                       | 1258.70                     | 0.839                     | Pass   |





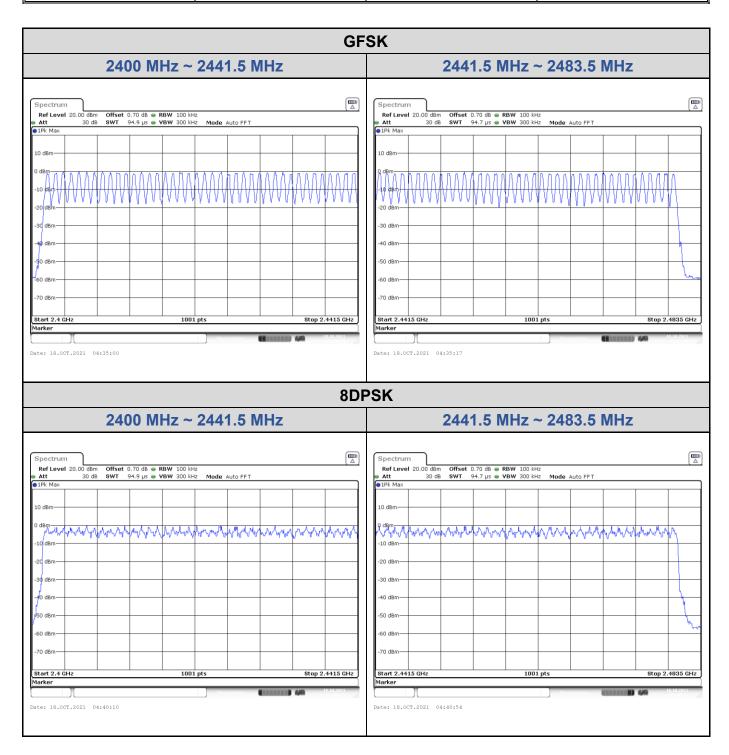
**CN22NAWE (P15C-BT) 001** 

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### **Test Result of Number of Hopping Frequency**

| Frequency Range    | Measured Quantity of<br>Hopping Channel | Limit | Result |
|--------------------|---|-------|--------|
| 2400 to 2483.5 MHz | 79                                      | ≥15   | Pass   |





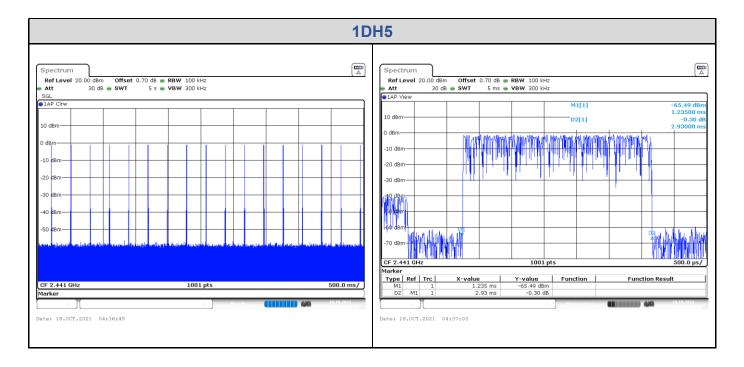
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#### **Test Result of Dwell Time**

#### **GFSK**

| Data Mode | Number of transfer in a 31.6 (79Hopping*0.4s) | Package<br>transfer time<br>(msec) | Dwell time<br>(s) | Limit<br>(s) | Result |
|-----------|---|------------------------------------|-------------------|--------------|--------|
| 1DH5      | 17 (times / 5 sec) * 6.32 = 107.44 times      | 2.93                               | 0.314799          | 0.4          | Pass   |



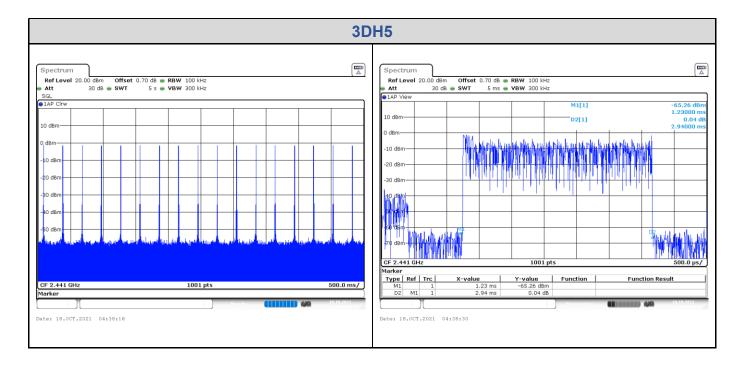


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#### 8DPSK

| Data Mode | Number of transfer in a 31.6 (79Hopping*0.4s) | Package<br>transfer time<br>(msec) | Dwell time<br>(s) | Limit<br>(s) | Result |
|-----------|---|------------------------------------|-------------------|--------------|--------|
| 3DH5      | 17 (times / 5 sec) * 6.32 = 107.44 times      | 2.94                               | 0.315874          | 0.4          | Pass   |



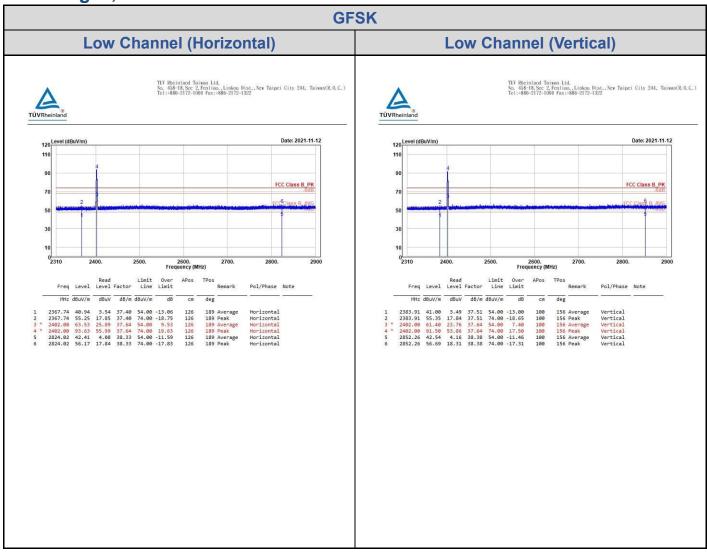
Test Report No.

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## **Appendix B: Test Results of Radiated Spurious Emissions & Mains**

#### **Radiated Emission Test**

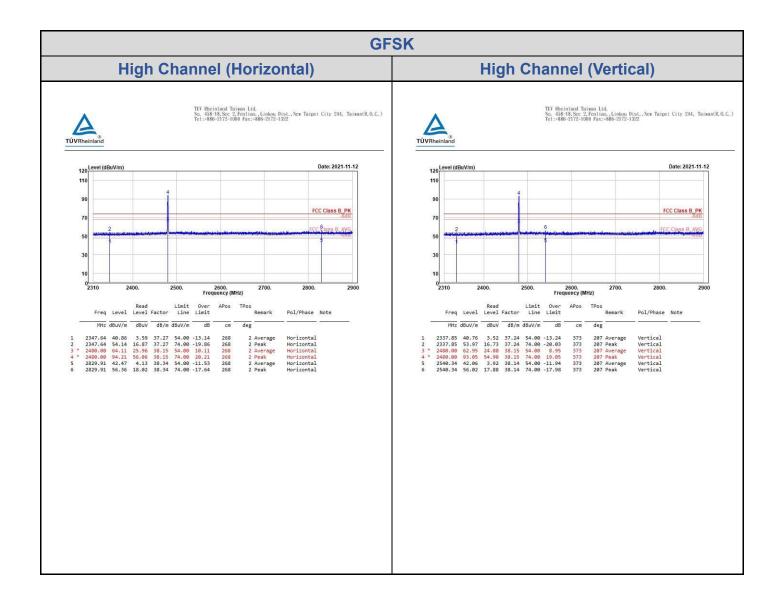
Band Edges, 2.31GHz ~ 2.9GHz





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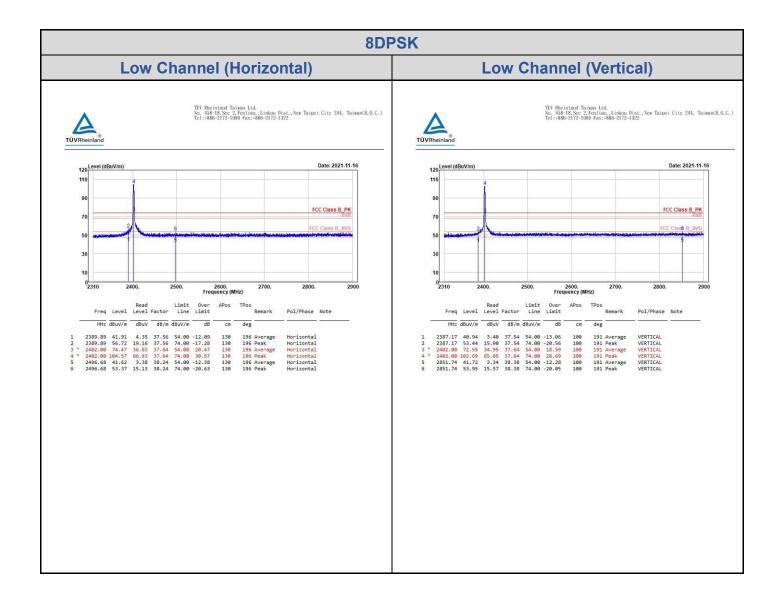
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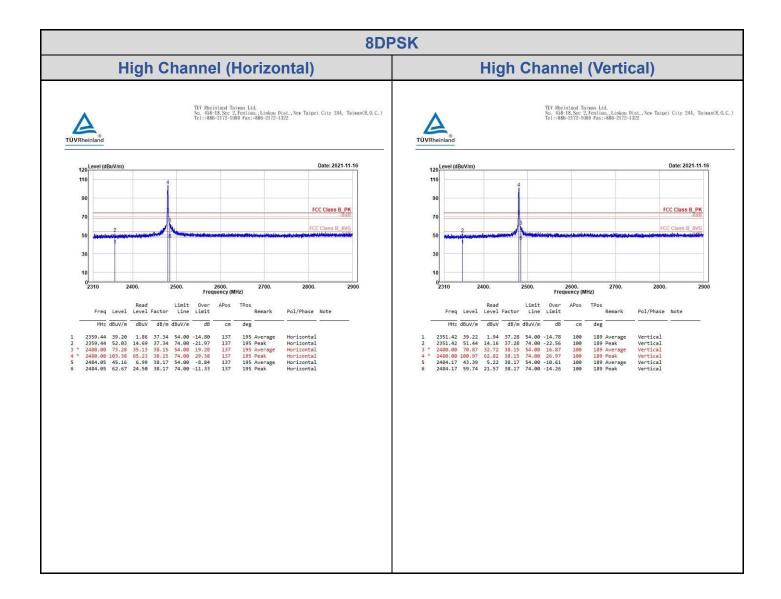
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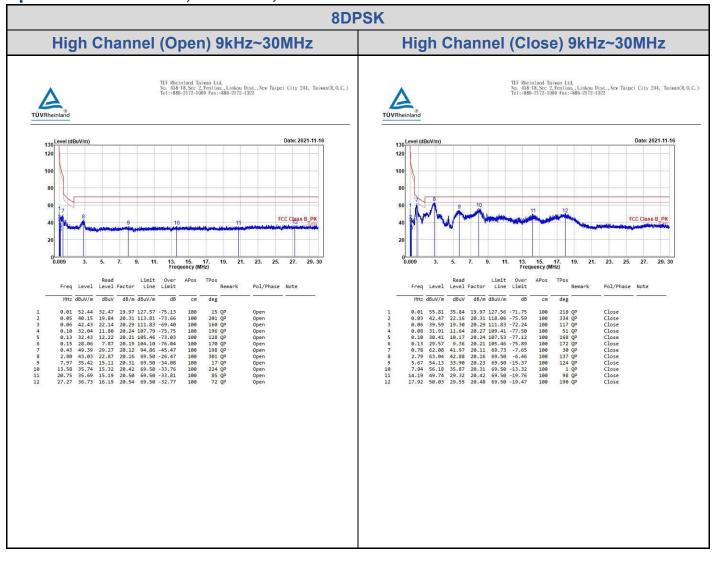


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#### Spurious Emissions, Tx Mode, 9kHz ~ 30MHz



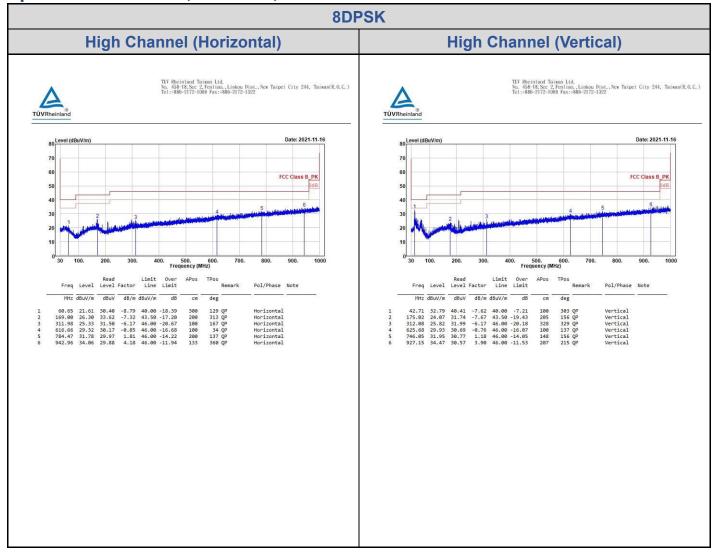


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### Spurious Emissions, Tx Mode, 30MHz ~ 1GHz



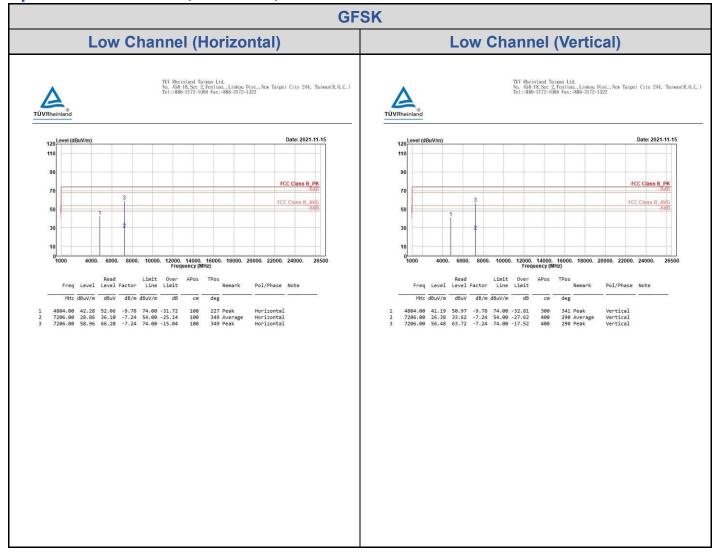


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### Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

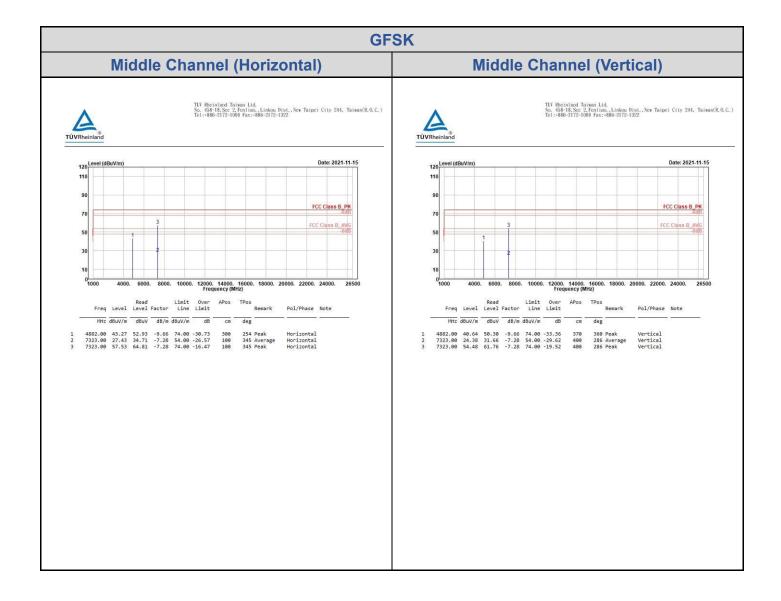




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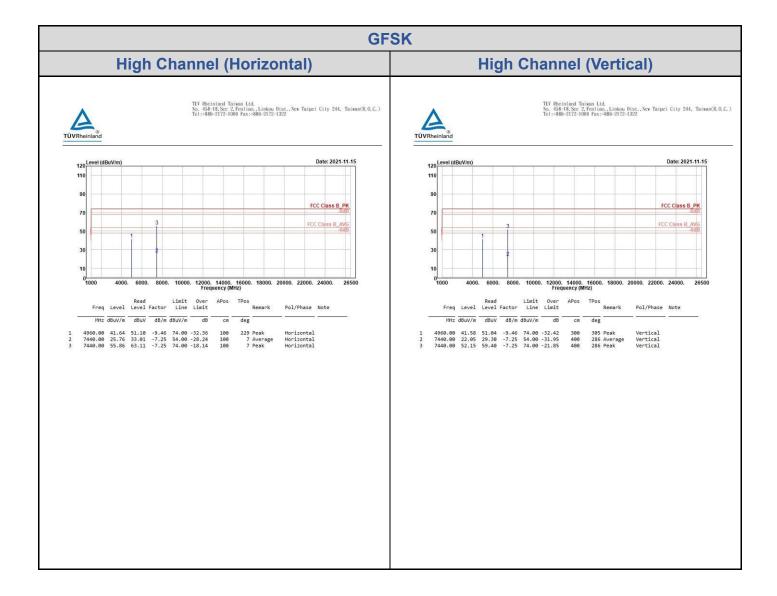
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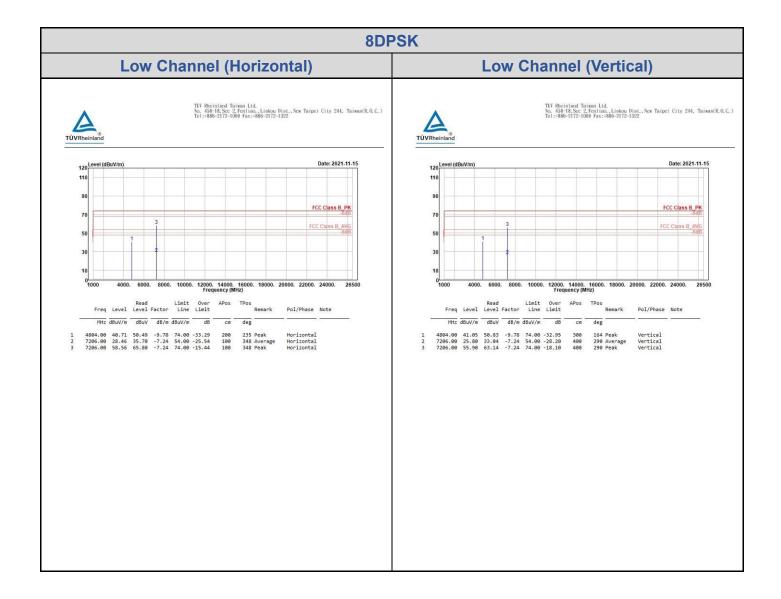




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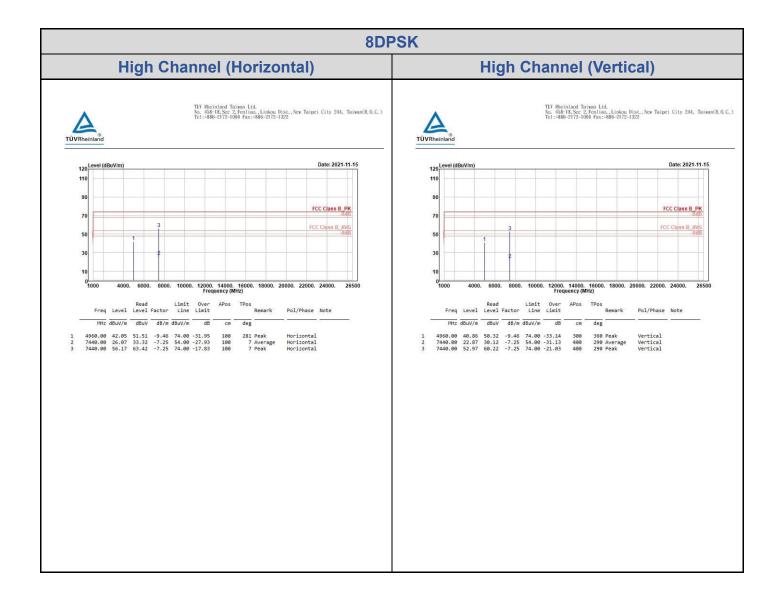




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#### Mains Conducted Emission, 150kHz ~ 30MHz

