



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AY0056077(3) Date : Oct 17, 2019

Application No. : LY024939(5)

Applicant : TWELVE SOUTH LLC  
1503 KING ST., SUITE 201, CHARLESTON,  
SOUTH CAROLINA, US 29405

Sample Description :

| Sample Description    | Model No.  |
|-----------------------|------------|
| Bluetooth Transmitter | AirFly Duo |

Date Received : Sep 23, 2019

Test Period : Sep 24, 2019 to Oct 11, 2019

Test Requested : FCC Certification for FCC Part 15, subpart C  
ISED Certification for License-exempt Device

Test Method : 47 CFR Part 15 (10-1-18 Edition),  
ANSI C63.10 – 2013,  
ANSI C63.4 – 2014  
RSS-247 Issue 2,  
RSS-Gen Issue 5,

Test Engineer : Mr. Leung Shu Kan, Ken

Conclusion : The submitted sample was found to comply with technical requirement of FCC  
Part 15 Subpart C, section 15.247, and ISED Canada Radio Standards Specification  
RSS-247 Issue 2.

For and on behalf of  
CMA Industrial Development Foundation Limited

Authorized Signature : \_\_\_\_\_ Page 1 of 71

Mr. WONG Lap-pong, Andrew  
Manager

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



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### RESULT SUMMARY

| Test Item                                 | FCC Requirement         | RSS Requirement | Test Method                        | Result |
|-------------------------------------------|-------------------------|-----------------|------------------------------------|--------|
| Number of hopping frequency               | §15.247(a)(1)(iii)      | RSS-247 §5.1(d) | ANSI C63.10 §7.8.3                 | PASS   |
| Band-edge                                 | §15.247(d)              | RSS-247 §5.5    | ANSI C63.10 §7.8.6 and 6.10        | PASS   |
| Carrier frequency separation              | §15.247(a)              | RSS-247 §5.1(b) | ANSI C63.10 §7.8.2                 | PASS   |
| Time of occupancy (dwell time)            | §15.247(a)              | RSS-247 §5.1(b) | ANSI C63.10 §7.8.4                 | PASS   |
| Output power                              | §15.247(b)(1)           | RSS-247 §5.4    | ANSI C63.10 §7.8.5                 | PASS   |
| Occupied bandwidth                        | §15.247(a)              | RSS-247 §5.1(a) | ANSI C63.10 §7.8.7 and 6.9.2       | PASS   |
| Conducted spurious emission (Transmitter) | §15.247(d)              | RSS-247 §5.5    | ANSI C63.10 §7.8.8, and §11.12.2.1 | PASS   |
| Radiated spurious emission (Transmitter)  | §15.247(d)              | RSS-247 §5.5    | ANSI C63.10 §6.4 – 6.6             | PASS   |
| Radiated spurious emission (Receiver)     | §15.109(a)              | RSS-Gen, §7.0   | ANSI C63.4 §8.3                    | PASS   |
| Conducted emission on AC mains            | §15.207(a)              | RSS-Gen, §8.8   | ANSI C63.4 §7.3                    | PASS   |
| Frequency Hopping System Requirement      | §15.247(a)(1), (g), (h) | RSS-247 §5.1    | N/A                                | PASS   |
| Frequency Stability                       | N/A                     | RSS-Gen, §8.11  | ANSI C63.10 §7.8.7 and 6.9.2       | PASS   |

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### 1 Product Information

#### 1.1 General Information

|                       |            |
|-----------------------|------------|
| Product Description:  | Model:     |
| Bluetooth Transmitter | AirFly Duo |

|                                            |                                                                                                                           |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Primary function                           | : Providing the basic Bluetooth transmitter function to transmit the audio signal from player without Bluetooth function. |
| Power supply                               | : DC 3.7V (Li-ion rechargeable)<br>DC 5.0V (USB-Type C charging port)                                                     |
| RF related function                        | : Bluetooth communication                                                                                                 |
| Electric Accessories sold with             | : Nil                                                                                                                     |
| Interconnection cable associated sold with | : 26cm USB to USB Type-C cable                                                                                            |
| Operating condition                        | : Not specified                                                                                                           |
| Model difference                           | : Not applicable                                                                                                          |
| Remark                                     | : Nil                                                                                                                     |

#### 1.2 Technical Information

|                     |                                                                               |
|---------------------|-------------------------------------------------------------------------------|
| Operating Frequency | : 2402 – 2480 MHz                                                             |
| Digital Modulation  | : FHSS                                                                        |
| Modulation          | : GFSK, $\pi/4$ DQPSK, 8DPSK                                                  |
| Number of Channel   | : 79                                                                          |
| Channel Bandwidth   | : 1.0MHz                                                                      |
| Occupied Bandwidth  | : 1.25MHz                                                                     |
| Signal Type         | : Data                                                                        |
| Number of Antenna   | : One                                                                         |
| Antenna Type        | : Chip type antenna                                                           |
| Antenna Gain        | : 2.5dBi                                                                      |
| Rated Input Voltage | : DC 3.7V (Li-ion rechargeable battery)<br>DC 5.0V (USB-Type C charging port) |
| RF Technology Used  | : Bluetooth 5.0+EDR (Non BLE)                                                 |
| Simplex or Duplex   | : Half-duplex                                                                 |
| Adaptivity          | : FHSS adaptivity                                                             |

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### 1.3 Associated Electric Accessories Information

N/A

### 1.4 Associated Cables

| Cable Type              | Length | Shielding | Ferrite attached |
|-------------------------|--------|-----------|------------------|
| USB to USB Type C cable | 26cm   | Yes       | No               |

## 2.0 Equipment Units Tested (EUT)

Product Description : Bluetooth Transmitter  
Model : AirFly Duo  
PMN : AirFly Duo  
HVIN : AirFly Duo  
FVIN : N/A  
HMN : N/A  
Serial No. : Not labelled  
Sample Type : Pre-production type  
Sample No. : RY047200-003(5)  
Rationale of selection : One single model

## 3.0 Location of Test Facility

CMA Industrial Development Foundation Ltd.  
Room 1302, Yan Hing Centre,  
9-13 Wong Chuk Yeung,  
Fo Tan, Shatin,  
New Territories  
Hong Kong.

FCC Accredited Lab (Designation Number: HK0004)  
ISED Wireless Test Site (ISED Assigned Code: 4093A)

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### 4.0 List of test equipment, supporting equipment and cables

#### 4.1 Test equipment

| Equipment                                        | Manufacturer     | Model No.    | Serial No.  | Calibration Due Date | Calibration Period |
|--------------------------------------------------|------------------|--------------|-------------|----------------------|--------------------|
| EMI Test Receiver                                | Rohde & Schwarz  | ESCS30       | 100001      | 29 Mar 2020          | 1Year              |
| Spectrum Analyzer                                | R&S              | FSV40        | 100964      | 07 Feb 2020          | 1Year              |
| Spectrum Analyzer                                | Rohde & Schwarz  | FSP30        | 100628      | 26 Mar 2020          | 1Year              |
| Broadband Antenna                                | Schaffner        | CBL6112B     | 2692        | 27 Mar 2021          | 2Years             |
| Loop Antenna                                     | EMCO             | 6502         | 00056620    | 25 Jan 2020          | 2Years             |
| Horn Antenna                                     | Schwarzbeck      | BBHA 9120D   | 9120D-531   | 21 Dec 2020          | 2Years             |
| Broadband Pre-Amplifier                          | Schwarzbeck      | BBV 9718     | 9718-119    | 21 Dec 2020          | 2Years             |
| Horn Antenna                                     | Schwarzbeck      | BBHA 9170    | BBHA9170442 | 01 Aug 2020          | 2Years             |
| Broadband Pre-Amplifier                          | Schwarzbeck      | BBV 9719     | 9719-010    | 01 Aug 2020          | 2Years             |
| Coaxial Cable                                    | Schaffner        | RG 213/U     | N/A         | 16 May 2020          | 1Year              |
| Coaxial Cable                                    | Suhner           | RG 214/U     | N/A         | 16 May 2020          | 1Year              |
| Coaxial Cable                                    | Suhner           | Sucoflex_104 | N/A         | 21 Dec 2019          | 1Year              |
| LISN                                             | Rohde & Schwarz  | ENV216       | 101323      | 22 Jan 2020          | 1Year              |
| Coaxial Cable                                    | Tyco Electronics | RG 58C/U     | N/A         | 23 Oct 2019          | 1Year              |
| <b>Rohde &amp; Schwarz TS8997 Testing System</b> |                  |              |             |                      |                    |
| Spectrum Analyzer                                | Rohde & Schwarz  | FSV 40       | 101190      | 05 Dec 2019          | 1Year              |
| OSP                                              | Rohde & Schwarz  | OSP          | OSP120 V02  | 24 Apr 2020          | 1Year              |

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### 4.2 Supporting equipment

| Equipment Name       | Manufacturer | Model   | Serial       | Provided by |
|----------------------|--------------|---------|--------------|-------------|
| CSR USB-SPI Adaptor* | CSR          | USB-SPI | Not labelled | Applicant   |
| USB Charger          | Apple        | A1299   | Not labelled | CMA         |
| iPod 8GB             | Apple        | A1285   | YM9312JE2ME  | CMA         |

Remark: \*only used for configure engineering mode

### 4.3 Cables

Nil

### 4.4 Software

| Software Name            | Version | Function                                   | Provided by |
|--------------------------|---------|--------------------------------------------|-------------|
| CSR Bluesuite BlueTest3* | V2.6.8  | Control the engineering mode of the device | Applicant   |

Remark: \*only used for configure engineering mode

## 5.0 Measurement Uncertainty

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor  $k=2$ , providing a level of confidence of approximately 95%.

### Radiated emissions

| Frequency                     | Uncertainty ( $U_{lab}$ ) |
|-------------------------------|---------------------------|
| 30MHz ~ 200MHz (Horizontal)   | 4.59dB                    |
| 30MHz ~ 200MHz (Vertical)     | 4.49dB                    |
| 200MHz ~ 1000MHz (Horizontal) | 4.94dB                    |
| 200MHz ~ 1000MHz (Vertical)   | 4.97dB                    |
| 1GHz ~ 6GHz                   | 4.52dB                    |
| 6GHz ~ 18GHz                  | 4.58dB                    |
| 18GHz ~ 40GHz                 | 4.66dB                    |

### Line-conducted emissions

| Frequency    | Uncertainty ( $U_{lab}$ ) |
|--------------|---------------------------|
| 150kHz~30MHz | 2.80dB                    |

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### 6.0 Measurement

#### 6.1 General Test condition

Temperature : 27.0 °C  
Test Voltage : DC3.7V and AC 120V  
Humidity : 49.3%  
Atmosphere Pressure : 101.0kPa

#### 6.2 Number of hopping frequency

##### 6.2.1 Measurement

Requirement : FCC Part 15 § 15.247(a)(1)(iii) and RSS-247 §5.1(d)  
Measuring procedure : ANSI C63.10:2013, clause 7.8.3  
Span : 83.5MHz  
RBW : 300kHz  
VBW : 300kHz  
Frequency range : 2.4000 – 2.4835GHz  
Modulation tested : GFSK  
Packet Type tested : DH5  
Additional measuring procedure : Nil

##### 6.2.2 Final Result

| No. of hopping channels measured | Limit | Result | Worst case mode |
|----------------------------------|-------|--------|-----------------|
| 79                               | ≥ 15  | PASS   | GFSK and DH5    |

Remark: Detail test result and equipment setting refer to appendix A, A4

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### 6.3 Band-edge measurement

#### 6.3.1 Measurement

- |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Requirement                         | : FCC Part 15 §15.247(d) and RSS-247 §5.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Measuring procedure                 | : ANSI C63.10:2013, section 7.8.6 and 6.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Hopping mode                        | : Enabled and Disable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| RBW                                 | : 100kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| VBW                                 | : 300kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Frequency range                     | : 2310 – 2400MHz and 2483.5 – 2500MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Modulation tested                   | : GFSK, $\pi/4$ DQPSK, 8DPSK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Packet Type tested                  | : DH5, 2DH5, 3DH5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Channel tested for non-hopping mode | : 2402MHz for lowed band edge and 2480MHz for higher band edge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Additional measuring procedure      | : For lower band edge (2400MHz) <ol style="list-style-type: none"><li>1. Using the “Measurement 1” setting shown below the scan plot within the frequency span from 2400 – 2483.5MHz to measure the maximum peak value of fundamental</li><li>2. Using the “Measurement 2” setting shown below the scan plot within the frequency span from 2310 – 2400MHz to measure the bandedge reading</li><li>3. Compare that reading in procedure with the limit which equal to the measured maximum peak in procedure 1 minus 20dB</li></ol> For Upper bandedge (2483.5MHz) <ol style="list-style-type: none"><li>1. Using the “Measurement 1” setting shown below the scan plot within the frequency span from 2400 – 2483.5MHz to measure the maximum peak value of fundamental</li><li>2. Using the “Measurement 2” setting shown below the scan plot within the frequency span from 2483.5 – 2500MHz to measure the bandedge reading</li><li>3. Compare that reading in procedure with the limit which equal to the measured maximum peak in procedure 1 minus 20dB</li></ol> |

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### 6.3.2 Final Result

| Banded frequency<br>for lower bandedge<br>(Worst Case)  | Worst<br>case<br>(dBc) <sup>2</sup>    | Detector | Limit <sup>1</sup><br>(dBc) | Result | Worst case |
|---------------------------------------------------------|----------------------------------------|----------|-----------------------------|--------|------------|
| 2399.975000                                             | 37.2                                   | Peak     | $\geq 20.0$                 | PASS   | GFSK DH5   |
| Banded frequency<br>for higher bandedge<br>(Worst Case) | Worst<br>case in<br>(dBc) <sup>2</sup> | Detector | Limit <sup>1</sup>          | Result | Worst case |
| 2483.525000                                             | 50.4                                   | Peak     | $\geq 20.0$                 | PASS   | GFSK DH5   |

Remark: 1) The limit is based on the transmitter demonstrated compliance with peak conducted power limit on section 6.4.2 of this report.

2) The Worst case dBc is the peak values measured in procedure 1 minus the worst case bandedge emission

3) Detail test result and equipment setting refer to appendix A, A32-39

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### 6.4 Carrier Frequency Separation

#### 6.4.1 Measurement

|                                |                                                                                                                                                                                                                                                      |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Requirement                    | : FCC Part 15 §15.247(a) and RSS-247 §5.1(b)                                                                                                                                                                                                         |
| Measuring procedure            | : ANSI C63.10:2013, section 7.8.2                                                                                                                                                                                                                    |
| Hopping mode                   | : Enabled                                                                                                                                                                                                                                            |
| RBW                            | : 300kHz                                                                                                                                                                                                                                             |
| VBW                            | : 300kHz                                                                                                                                                                                                                                             |
| Frequency range                | : 2401-2404MHz, 2440-2442MHz, 2478-2481MHz                                                                                                                                                                                                           |
| Modulation tested              | : GFSK <sup>2</sup>                                                                                                                                                                                                                                  |
| Packet Type tested             | : DH5 <sup>2</sup>                                                                                                                                                                                                                                   |
| Additional measuring procedure | : Nil                                                                                                                                                                                                                                                |
| Remark                         | : 1) Since the measured value is more than 1.5 times of limit, only middle channel is measured.<br>2) Since the modulation and packet type does not affect the channel separation, GFSK and DH5 are selected as represented modulation and data type |

#### 6.4.2 Final Result

| Carrier Frequency Separation | Limit <sup>1</sup> | Result | Worst case mode |
|------------------------------|--------------------|--------|-----------------|
| 1.009900                     | 0.866667           | PASS   | GFSK and DH5    |

Remark: 1) Limit is 2/3 of the 20dB bandwidth in section 6.7 and conducted peak power is less than 0.125W in section 6.6 of this report.

2) Detail test result and equipment setting refer to appendix A, A29-31

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6.5 Time of occupancy (dwell time)

### 6.5.1 Measurement

Requirement : FCC Part 15 §15.247(a) and RSS-247 §5.1(a)  
Measuring procedure : ANSI C63.10:2013, section 7.8.4  
Hopping mode : Disable  
RBW : 500kHz  
VBW : 1MHz  
Modulation tested : GFSK<sup>3</sup>  
Packet Type tested : DH1, DH3, DH5  
Channel tested for non-hopping mode : 2441MHz  
Additional measuring procedure : 1) Setup engineering sample to channel 2441MHz and DH1 packet size to perform the measurement according to ANSI C63.10, section 7.8.4  
2) Find the worst case packet size  
3) Repeat procedure 1 with the worst case packet size for channel 2402MHz and 2480MHz  
Remark : 1) Since the modulation does not affect the dwell time, GFSK is selected as represented modulation.

### 6.5.2 Final Result

| Dwell time (worst case) | Limit  | Result | Worst case mode |
|-------------------------|--------|--------|-----------------|
| 309.150ms               | ≤400ms | PASS   | GFSK and DH5    |

Remark: 1) Detail test result and equipment setting refer to appendix A, A5-7

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### 6.6 Output Power

#### 6.6.1 Measurement

Requirement : FCC Part 15 §15.247(b) (1) and RSS-247 §5.4  
Measuring procedure : ANSI C63.10:2013, section 7.8.5  
Hopping mode : Disable  
Modulation tested : GFSK,  $\pi/4$ DQPSK, 8DPSK  
Packet Type tested : DH5<sup>1</sup>  
Channel tested for non-hopping mode : 2402MHz, 2441MHz, 2480MHz  
Additional measuring procedure : Nil  
Remark : 1) Since the packet size does not affect the output power, DH5 is selected as represented packet size.

#### 6.6.2 Final Result

##### (a) Maximum peak conducted output power

| Maximum peak conducted output power | Limit(s) <sup>1</sup> | Result | Modulation    |
|-------------------------------------|-----------------------|--------|---------------|
| 0.7dBm                              | $\leq 21.0$ dBm       | PASS   | GFSK          |
| 0.7dBm                              | $\leq 21.0$ dBm       | PASS   | $\pi/4$ DQPSK |
| 0.7dBm                              | $\leq 21.0$ dBm       | PASS   | 8DPSK         |

Remark: 1) 0.125W (21.0dBm) limit is used for 2/3 20dB bandwidth requirement for channel separation.

2) Detail test result and equipment setting refer to appendix A, A15, A24, A31

##### (b) Maximum peak e.i.r.p.(for RSS-247)

| Maximum peak e.i.r.p. <sup>1</sup> | Limit(s) <sup>2</sup> | Result | Modulation    |
|------------------------------------|-----------------------|--------|---------------|
| 3.2dBm                             | $\leq 27.0$ dBm       | PASS   | GFSK          |
| 3.2dBm                             | $\leq 27.0$ dBm       | PASS   | $\pi/4$ DQPSK |
| 3.2dBm                             | $\leq 27.0$ dBm       | PASS   | 8DPSK         |

Remark: 1) Maximum peak e.i.r.p. = Maximum peak conducted output power + antenna gain (dBi)

2) Maximum peak e.i.r.p. limit = Maximum peak conducted output power limit + 6dBi

3) Detail test result and equipment setting refer to appendix A, A8-10

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Report No. : AY0056077(3)

Date : Oct 17, 2019

### 6.7 Occupied Bandwidth and Frequency Stability

#### 6.7.1 Measurement

Requirement : FCC Part 15 §15.247(a) and RSS-247 §5.1(a)  
Measuring procedure : ANSI C63.10:2013, section 7.8.7 and 6.9.2  
Hopping mode : Disable  
Modulation tested : GFSK,  $\pi/4$ DQPSK, 8DPSK  
Packet Type tested : DH5<sup>1</sup>  
Channel tested for non-hopping mode : 2402MHz, 2441MHz, 2480MHz  
Additional measuring procedure : Nil  
Remark : 1) Since the packet size does not affect the bandwidth, DH5 is selected as represented packet size.

#### 6.7.2 Final Result

| 20dB bandwidth | 99% OBW  | Modulation    |
|----------------|----------|---------------|
| 0.930MHz       | 0.865MHz | GFSK          |
| 1.300MHz       | 1.250MHz | $\pi/4$ DQPSK |
| 1.300MHz       | 1.230MHz | 8DPSK         |

Remark: 1) 99% occupied bandwidths fall in the frequency band 2402 – 2480MHz, so it comply the bandwidth and frequency stability requirement in FCC Part 15 and RSS-Gen.  
2) Detail test result and equipment setting refer to appendix A, A11-28

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IC: 24385-AIRFLYDUO



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### 6.8 Conducted Spurious emission (Transmitter)

#### 6.8.1 Measurement

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Requirement                         | : FCC Part 15 §15.247(d) and RSS-247 §5.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Measuring procedure                 | : ANSI C63.10:2013, section 5.5, 5.6, 7.8.8 and 11.12.2.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Hopping mode                        | : Disable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| RBW                                 | : Refer to pre-measurement and final measurement setting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Detector                            | : Refer to pre-measurement and final measurement setting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Modulation tested                   | : GFSK <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Packet Type tested                  | : DH5 <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Channel tested for non-hopping mode | : 2402MHz, 2441MHz, 2480MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Additional measuring procedure      | : <ol style="list-style-type: none"><li>1) Setup engineering sample to channel 2402MHz to perform the measurement according to ANSI C63.10, section 7.8.8 with pre-measurement setting</li><li>2) If the pre-measurement is over the limit, the final measurement is performed for the specific frequency according to final measurement setting or restricted band frequency</li><li>3) For non-restricted band frequency, peak detector and 100kHz RBW will be used for final measurement.</li><li>4) Repeat the procedure 1 to 3 for channel frequency of 2441MHz and 2480MHz</li></ol> |
| Remark                              | : <ol style="list-style-type: none"><li>1) Since the GFSK generates a higher SPD with power level, GFSK is selected as represented modulation for testing.</li><li>2) Since DH5 generates a higher dwell time, DH5 is selected as representative packet size for testing</li></ol>                                                                                                                                                                                                                                                                                                         |

#### 6.8.2 Final Result

| Worst case spurious emission frequency | Worst case spurious emission power <sup>1</sup> | Limit <sup>2</sup> | Margin  | Result | Worst case mode |
|----------------------------------------|-------------------------------------------------|--------------------|---------|--------|-----------------|
| 2399.225000                            | -44.8dBm                                        | -20.7dBm           | -24.1dB | PASS   | GFSK and DH5    |

Remark: 1) Spurious emission power = measured conducted power + antenna gain(dBi) + ground reflection factor according to ANSI C63.10 section 11.12.2.2 for restricted band emission.

2) For restricted band emission, limit = restricted band field strength limit (dBuV/m) + 4.7dB – 104.8dB according to ANSI C63.10 section 11.12.2.2 For non-restricted band, limit = SPD/100kHz – 20dB.

3) Detail test result and equipment setting refer to appendix A, A40-45

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### 6.9 Radiated Spurious emission (Transmitter)

#### 6.9.1 Measurement

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 0.4m and 0.8m high above the ground for below 1GHz measurement and 1.5m high above the ground for above 1GHz measurement. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is placed 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1 m above the ground.

For 30MHz to 300MHz, biconical antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. And the reference point of antenna shall be 1 m above the ground. Same procedure for frequency 300MHz to 1000MHz but Log-periodic antenna is used for final measurements.

For above 1GHz, horn antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. Preamplifier and High Pass filter was used for measurements. The reference point of antenna shall be 1 m above the ground.

The device was rotated through three X, Y, Z orthogonal to determine which attitude and configuration produce the highest emission during measurement for Radiated Emission measurement.

The Frequencies from fundamental up to the tenth harmonics were investigated, and emissions more 20dB below limit were not reported.

Bluetooth hopping + charging mode with GFSK modulation and DH5packet type are selected as worst case mode for spurious radiated emission test from cabinet.

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### 6.9.2 Final Result

#### a) Test mode: Bluetooth + Charging

| Polarization | Frequency (MHz) | Reading at 3m (dBμV) | Transducer Factor (dB/m) | Field Strength at 3m <sup>1</sup> (dBμV/m) | Limit at 3m (dBμV/m) | Margin (dB) | Detector (PK/QP/AV) |
|--------------|-----------------|----------------------|--------------------------|--------------------------------------------|----------------------|-------------|---------------------|
| H            | 2400.000        | 63.1                 | -4.7                     | 58.4                                       | 74.0                 | -15.6       | PK                  |
| H            | 2400.000        | 54.4                 | -4.7                     | 49.7                                       | 54.0                 | -4.3        | AV                  |
| H            | 2483.500        | 59.1                 | -4.7                     | 54.4                                       | 74.0                 | -19.6       | PK                  |
| H            | 2483.500        | 53.9                 | -4.7                     | 49.2                                       | 54.0                 | -4.8        | AV                  |
| V            | 4803.662        | 52.8                 | 2.3                      | 55.1                                       | 74.0                 | -18.9       | PK                  |
| V            | 4804.046        | 48.9                 | 2.3                      | 51.2                                       | 54.0                 | -2.8        | AV                  |
| V            | 4881.718        | 47.7                 | 2.3                      | 50.0                                       | 54.0                 | -4.0        | PK                  |
| H            | 4960.044        | 41.9                 | 2.8                      | 44.7                                       | 54.0                 | -9.3        | PK                  |
| H            | 7206.493        | 44.1                 | 9.6                      | 53.7                                       | 54.0                 | -0.3        | PK                  |
| H            | 7322.532        | 44.5                 | 9.6                      | 54.1                                       | 74.0                 | -19.9       | PK                  |
| H            | 7322.880        | 37.1                 | 9.6                      | 46.7                                       | 54.0                 | -7.3        | AV                  |
| V            | 7439.702        | 44.6                 | 9.6                      | 54.2                                       | 74.0                 | -19.8       | PK                  |
| V            | 7439.852        | 37.6                 | 9.6                      | 47.2                                       | 54.0                 | -6.8        | AV                  |

- Remark: 1) Field Strength = Reading + transducer factor.  
2) Other emission with more than 20dB margin are not reported in this report  
3) The peak data emissions above 1GHz are compared with average limit except 2400.000MHz, 2483.500MHz, 4803.662MHz, 7322.532MHz and 7439.702MHz.

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### 6.10 Radiated Spurious emission (Receiver)

#### 6.10.1 Measurement

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 0.4m and 0.8m high above the ground for below 1GHz measurement and 1.5m high above the ground for above 1GHz measurement. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is placed 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1 m above the ground.

For 30MHz to 300MHz, biconical antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. And the reference point of antenna shall be 1 m above the ground. Same procedure for frequency 300MHz to 1000MHz but Log-periodic antenna is used for final measurements.

For above 1GHz, horn antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. Preamplifier and High Pass filter was used for measurements. The reference point of antenna shall be 1 m above the ground.

The device was rotated through three X, Y, Z orthogonal to determine which attitude and configuration produce the highest emission during measurement for Radiated Emission measurement.

The Frequencies from fundamental up to the tenth harmonics were investigated, and emissions more 20dB below limit were not reported.

Bluetooth receiving mode are selected for spurious radiated emission test from cabinet.

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### 6.10.2 Final Result

Test mode: Receiving mode

| Polarization | Frequency (MHz) | Reading at 3m (dBμV) | Transducer Factor (dB/m) | Field Strength at 3m <sup>1</sup> (dBμV/m) | Limit at 3m (dBμV/m) | Margin (dB) | Detector (PK/QP/AV) |
|--------------|-----------------|----------------------|--------------------------|--------------------------------------------|----------------------|-------------|---------------------|
| H            | 73.979          | 12.7                 | 9.8                      | 22.5                                       | 40.0                 | -17.5       | QP                  |
| V            | 107.397         | 15.9                 | 11.2                     | 27.1                                       | 43.5                 | -16.4       | QP                  |
| H            | 137.033         | 15.1                 | 12.6                     | 27.7                                       | 43.5                 | -15.8       | QP                  |
| V            | 172.315         | 12.9                 | 14.2                     | 27.1                                       | 43.5                 | -16.4       | QP                  |
| H            | 220.366         | 12.1                 | 14.5                     | 26.6                                       | 46.0                 | -19.4       | QP                  |
| V            | 1060.359        | 48.5                 | -9.8                     | 38.7                                       | 54.0                 | -15.3       | PK                  |
| H            | 1084.320        | 54.0                 | -9.8                     | 44.2                                       | 54.0                 | -9.8        | PK                  |
| V            | 1267.242        | 45.9                 | -8.2                     | 37.7                                       | 54.0                 | -16.3       | PK                  |

- Remark: 1) Field Strength = Reading + transducer factor.  
2) Other emission with more than 20dB margin are not reported in this report.  
3) The peak data emissions above 1GHz are compared with average limit

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## TEST REPORT

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### 6.11 Conducted Emission

#### 6.11.1 Measurement

Requirement : FCC Part 15 §15.207(a) and RSS-Gen, clause 8.8  
Measuring procedure : ANSI C63.4:2014, section 7.3  
Test mode : Bluetooth + charging  
RBW : 9kHz  
VBW : 30kHz  
Modulation tested : GFSK  
Packet Type tested : DH5  
Additional measuring procedure : Nil  
Remark : Nil

#### 6.11.2 Final Result

| Worst case conducted emission frequency | Worst case conducted emission | Limit     | Margin   | Detector | Lines | Worst case mode | Result |
|-----------------------------------------|-------------------------------|-----------|----------|----------|-------|-----------------|--------|
| 17.8880MHz                              | 42.62dBμV                     | 60.00dBμV | -17.38dB | QP       | L1    | Charging        | PASS   |

Remark: 1) Detail test result and equipment setting refer to appendix A, A46-47

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## TEST REPORT

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### 7.0 Frequency Hopping System Requirement

#### Test Requirement: Section 15.247(a)(1), (g), (h) and RSS-247, section 5.1 requirement

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom order list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

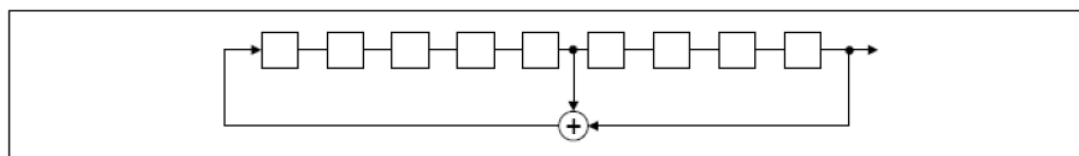
Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmissions bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

#### Compliance for section 15.247(a)(1) and RSS-247 section 5.1(a)

According to Bluetooth Core Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5<sup>th</sup> and 9<sup>th</sup> stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones.

- Number of shift register stage: 9
- Length of pseudorandom sequence:  $2^9-1=511$  bits
- Longest sequence of zero: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

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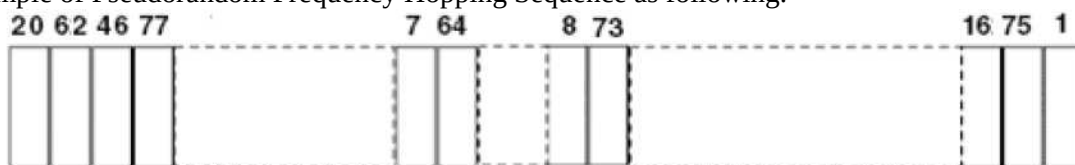
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An example of Pseudorandom Frequency Hopping Sequence as following:



Each frequency used equally on the average by each transmitter.

According to Bluetooth Core Specification, Bluetooth receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any Bluetooth transmitters and shift frequencies in synchronization with the transmitted signals.

### **Compliance for section 15.247(g) and RSS-247 section 5.1 2<sup>nd</sup> paragraph**

According to Bluetooth Core Specification, the Bluetooth system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

### **Compliance for section 15.247(h) and RSS-247 section 5.1 3<sup>rd</sup> paragraph**

According to Bluetooth Core specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

According to the Bluetooth Core specification, the Bluetooth system is designed not have the ability to coordinate with other FHSS System in effort to avoid the simultaneous occupancy of the individual hopping frequencies by multiple transmitter.

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### 8.0 External photo, Internal Photo and Test configuration Photo

The External Photo, Internal Photo and Test Configuration Photo associated with this report for the tested product are saved in separated pdf file listed in the following

| File content             | File name                                             |
|--------------------------|-------------------------------------------------------|
| External Photo           | 2AREB-AIRFLYDUO_24385-AIRFLYRDUO External Photo.pdf   |
| Internal Photo           | 2AREB-AIRFLYDUO_24385-AIRFLYRDUO Internal Photo.pdf   |
| Test Configuration Photo | 2AREB-AIRFLYDUO_24385-AIRFLYRDUO Test Setup photo.pdf |

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## APPENDIX A Test Result

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## TEST REPORT

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### DUT Information

#### Frequencies

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

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### Hardware Setup: WMS Measurements\TS8997

Spectrum Analyzer: SA FSV 40 (SA FSV 40) @ VISA (ADR  
TCPIP::192.168.48.148::inst0::instr), SN 1321.3008K39/101190,  
FW 2.30 SP4

Vector Generator: VG SMBV100A (VG SMBV100A) @ VISA (ADR  
TCPIP::192.168.48.149::inst0::instr), SN 262024, FW 3.1.19.8-  
3.20.281.28.7

Generator: SMB100A (SMB100A) @ VISA (ADR  
TCPIP::192.168.48.152::inst0::instr), SN 103230, FW 3.20.390.24  
/ Drv:Rev 2.21.0, 07/2016, CVI 2015

OSP: OSP-B157W (OSP-B157W) @ VISA (ADR  
TCPIP::192.168.48.157::inst0::instr), SN 1527.1144.03 / 101057,  
FW 1.23.0.2

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## TEST REPORT

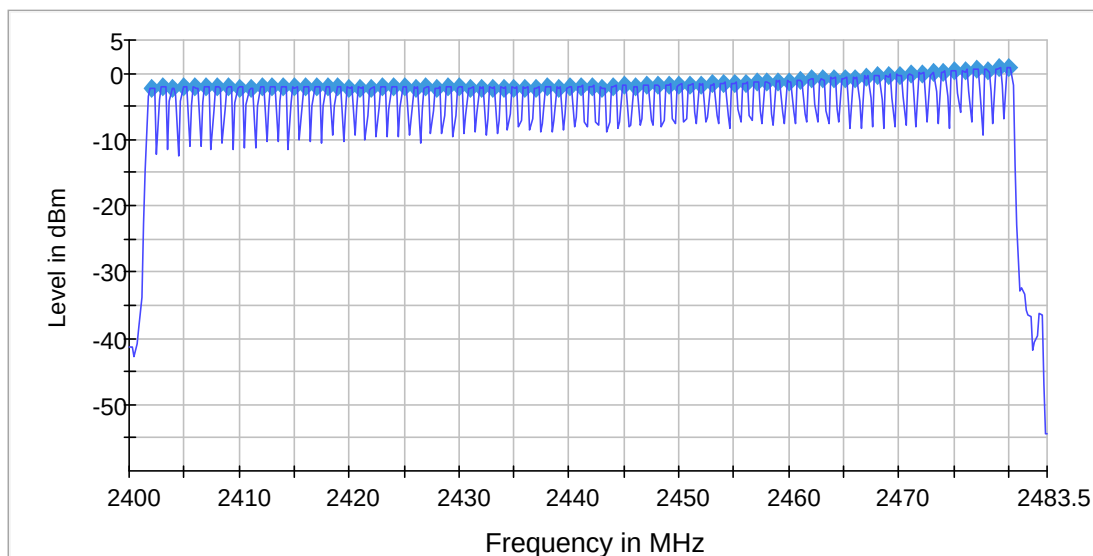
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### Hopping Frequencies (Hopping; GFSK; DH5)

#### Channels

| Channels | Limit Min | Limit Max | Result |
|----------|-----------|-----------|--------|
| 79       | 15        | ---       | PASS   |



#### Measurement

| Setting               | Instrument Value | Target Value       |
|-----------------------|------------------|--------------------|
| Start Frequency       | 2.40000 GHz      | 2.40000 GHz        |
| Stop Frequency        | 2.48350 GHz      | 2.48350 GHz        |
| Span                  | 83.500 MHz       | 83.500 MHz         |
| RBW                   | 200.000 kHz      | $\leq 299.000$ kHz |
| VBW                   | 200.000 kHz      | $\geq 200.000$ kHz |
| SweepPoints           | 418              | ~ 418              |
| SweepTime             | 1.060 ms         | AUTO               |
| Reference Level       | -10.000 dBm      | -10.000 dBm        |
| Attenuation           | 10.000 dB        | AUTO               |
| Detector              | MaxPeak          | MaxPeak            |
| SweepCount            | 100              | 100                |
| Filter                | 3 dB             | 3 dB               |
| Trace Mode            | Max Hold         | Max Hold           |
| SweepType             | Sweep            | AUTO               |
| Preamplifier          | off              | off                |
| Stablemode            | Trace            | Trace              |
| Stablevalue           | 0.50 dB          | 0.50 dB            |
| Run                   | 64 / max. 150    | max. 150           |
| Stable                | 3 / 3            | 3                  |
| Max Stable Difference | 0.46 dB          | 0.50 dB            |

FCC ID: 2AREB-AIRFLYDUO

IC: 24385-AIRFLYDUO



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## TEST REPORT

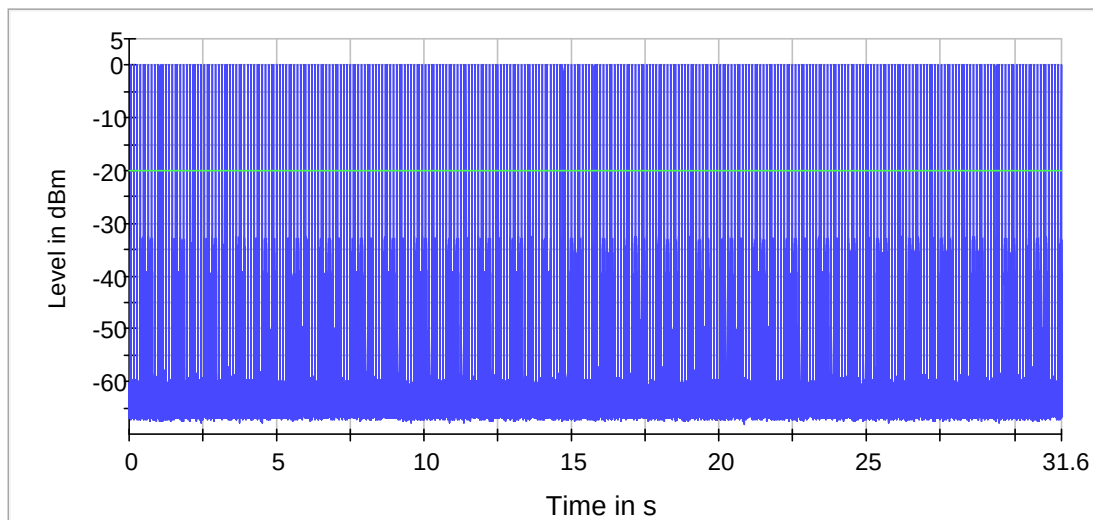
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Time of Channel Occupancy (2441 MHz; GFSK; DH1)

#### Result

| DUT Frequency (MHz) | Result | Number of Hops | Average time of occupancy (ms) | Threshold (dBm) |
|---------------------|--------|----------------|--------------------------------|-----------------|
| 2441.000000         | PASS   | 319            | 132.080                        | -20.0           |



Trace Threshold

#### Measurement

| Setting          | Instrument Value | Target Value  |
|------------------|------------------|---------------|
| Center Frequency | 2.44100 GHz      | 2.44100 GHz   |
| Span             | ZeroSpan         | ZeroSpan      |
| RBW              | 500.000 kHz      | ~ 500.000 kHz |
| VBW              | 1.000 MHz        | ~ 1.500 MHz   |
| SweepPoints      | 30001            | ~ 30001       |
| SweepTime        | 31.600 s         | 31.600 s      |
| Reference Level  | -10.000 dBm      | -10.000 dBm   |
| Attenuation      | 0.000 dB         | 0.000 dB      |
| Detector         | MaxPeak          | MaxPeak       |
| SweepCount       | 1                | 1             |
| Filter           | Channel          | Channel       |
| Trace Mode       | Clear Write      | Clear Write   |
| SweepType        | Sweep            | AUTO          |
| Preamp           | off              | off           |
| Trigger          | External         | External      |
| Trigger Offset   | 0.000 s          | 0.000 s       |

#### OSP

| Setting          | Instrument Value | Target Value  |
|------------------|------------------|---------------|
| Measurement Time | 31.600 s         | 31.600 s      |
| Tracepoints      | 31600000         | 31600000      |
| Time resolution  | 1.000 $\mu$ s    | 1.000 $\mu$ s |
| Detector         | RMS              | RMS           |

FCC ID: 2AREB-AIRFLYDUO

IC: 24385-AIRFLYDUO



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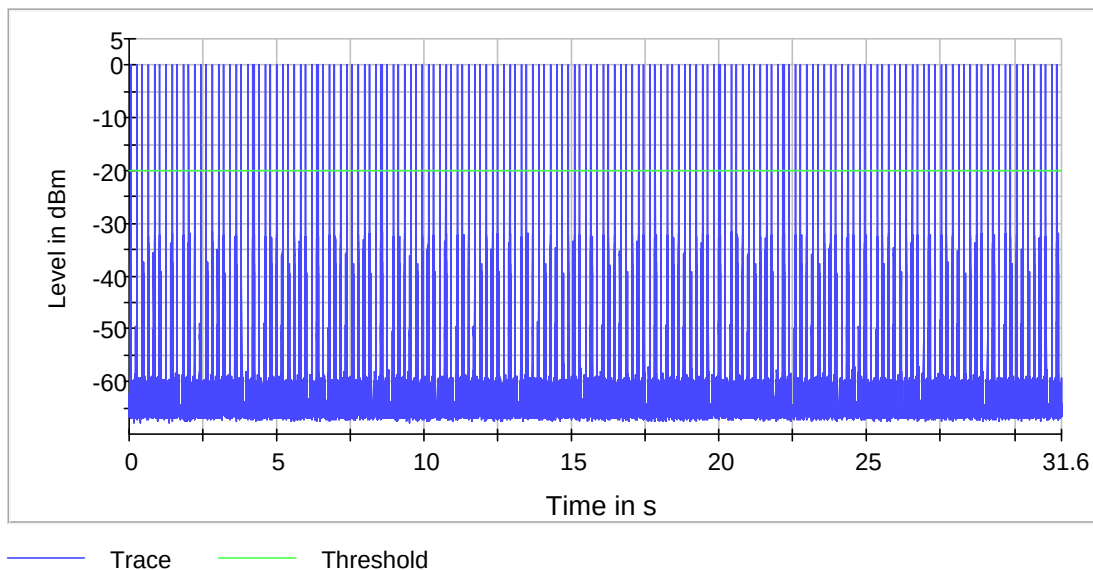
## TEST REPORT

Report No. : AY0056077(3)

Date : Oct 17, 2019

### Time of Channel Occupancy(2) (2441 MHz; GFSK; DH3) Result

| DUT Frequency (MHz) | Result | Number of Hops | Average time of occupancy (ms) | Threshold (dBm) |
|---------------------|--------|----------------|--------------------------------|-----------------|
| 2441.000000         | PASS   | 159            | 266.990                        | -20.0           |



### Measurement

| Setting          | Instrument Value | Target Value  |
|------------------|------------------|---------------|
| Center Frequency | 2.44100 GHz      | 2.44100 GHz   |
| Span             | ZeroSpan         | ZeroSpan      |
| RBW              | 500.000 kHz      | ~ 500.000 kHz |
| VBW              | 1.000 MHz        | ~ 1.500 MHz   |
| SweepPoints      | 30001            | ~ 30001       |
| SweepTime        | 31.600 s         | 31.600 s      |
| Reference Level  | -10.000 dBm      | -10.000 dBm   |
| Attenuation      | 0.000 dB         | 0.000 dB      |
| Detector         | MaxPeak          | MaxPeak       |
| SweepCount       | 1                | 1             |
| Filter           | Channel          | Channel       |
| Trace Mode       | Clear Write      | Clear Write   |
| SweepType        | Sweep            | AUTO          |
| Preamp           | off              | off           |
| Trigger          | External         | External      |
| Trigger Offset   | 0.000 s          | 0.000 s       |

### OSP

| Setting          | Instrument Value | Target Value  |
|------------------|------------------|---------------|
| Measurement Time | 31.600 s         | 31.600 s      |
| Tracepoints      | 31600000         | 31600000      |
| Time resolution  | 1.000 $\mu$ s    | 1.000 $\mu$ s |
| Detector         | RMS              | RMS           |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



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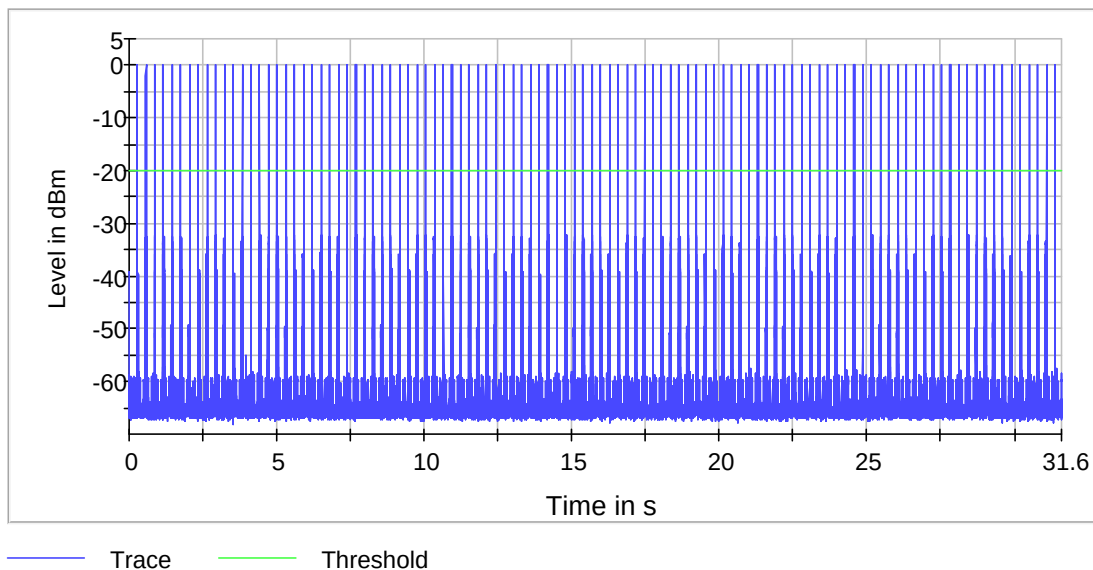
## TEST REPORT

Report No. : AY0056077(3)

Date : Oct 17, 2019

### Time of Channel Occupancy(3) (2441 MHz; GFSK; DH5) Result

| DUT Frequency (MHz) | Result | Number of Hops | Average time of occupancy (ms) | Threshold (dBm) |
|---------------------|--------|----------------|--------------------------------|-----------------|
| 2441.000000         | PASS   | 105            | 309.150                        | -20.0           |



### Measurement

| Setting          | Instrument Value | Target Value  |
|------------------|------------------|---------------|
| Center Frequency | 2.44100 GHz      | 2.44100 GHz   |
| Span             | ZeroSpan         | ZeroSpan      |
| RBW              | 500.000 kHz      | ~ 500.000 kHz |
| VBW              | 1.000 MHz        | ~ 1.500 MHz   |
| SweepPoints      | 30001            | ~ 30001       |
| SweepTime        | 31.600 s         | 31.600 s      |
| Reference Level  | -10.000 dBm      | -10.000 dBm   |
| Attenuation      | 0.000 dB         | 0.000 dB      |
| Detector         | MaxPeak          | MaxPeak       |
| SweepCount       | 1                | 1             |
| Filter           | Channel          | Channel       |
| Trace Mode       | Clear Write      | Clear Write   |
| SweepType        | Sweep            | AUTO          |
| Preamp           | off              | off           |
| Trigger          | External         | External      |
| Trigger Offset   | 0.000 s          | 0.000 s       |

### OSP

| Setting          | Instrument Value | Target Value  |
|------------------|------------------|---------------|
| Measurement Time | 31.600 s         | 31.600 s      |
| Tracepoints      | 31600000         | 31600000      |
| Time resolution  | 1.000 $\mu$ s    | 1.000 $\mu$ s |
| Detector         | RMS              | RMS           |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



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## TEST REPORT

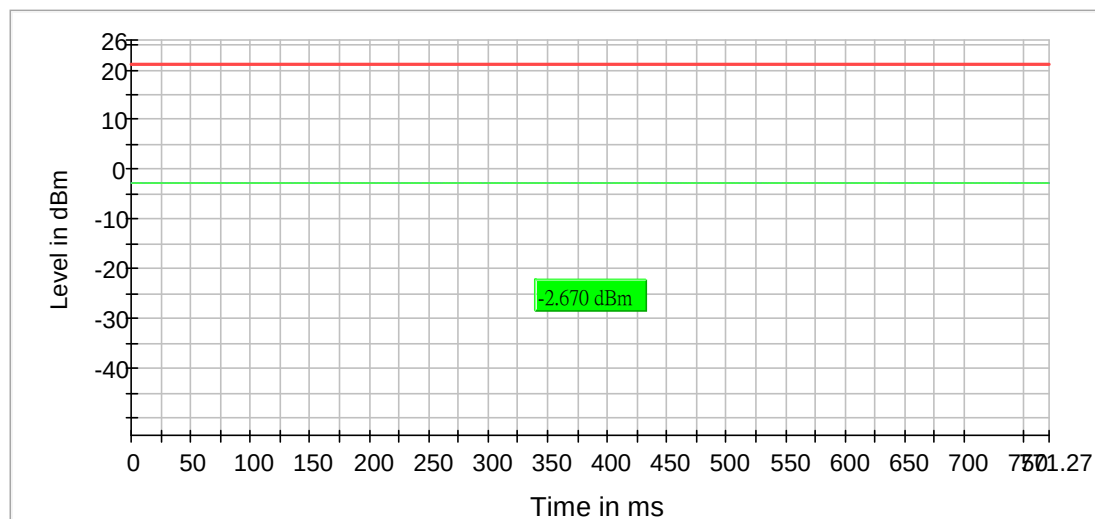
Report No. : AY0056077(3)

Date : Oct 17, 2019

### RF output power (2402 MHz; GFSK; DH5)

#### Result

| DUT Frequency (MHz) | Gated RMS (dBm) | Limit Max (dBm) | Gated EIRP (dBm) | DutyCycle (%) | Result |
|---------------------|-----------------|-----------------|------------------|---------------|--------|
| 2402.000000         | -2.7            | 21.0            | -0.2             | 77.586        | PASS   |



— Gated Trace — Overall — Limit

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



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## TEST REPORT

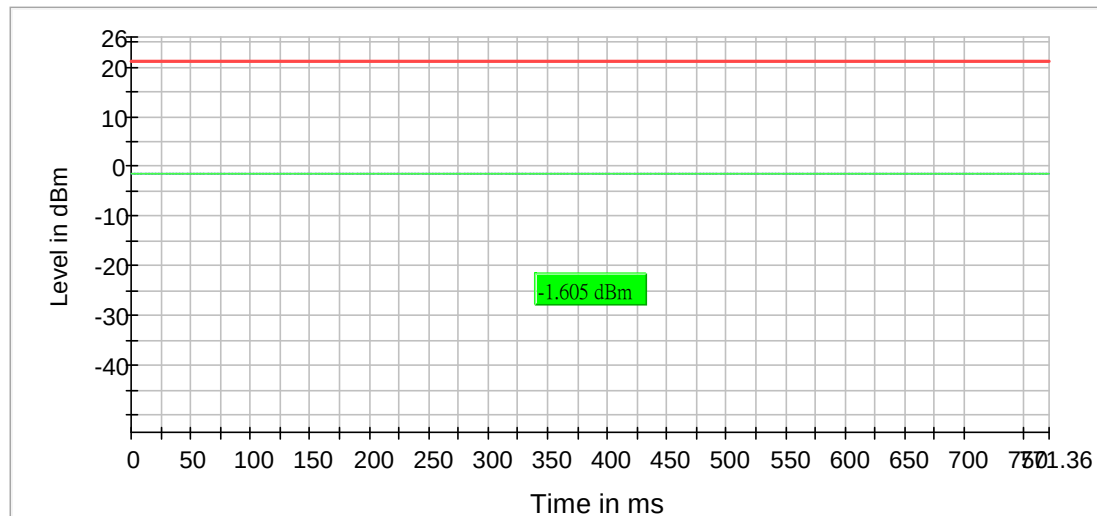
Report No. : AY0056077(3)

Date : Oct 17, 2019

### RF output power (2441 MHz; GFSK; DH5)

#### Result

| DUT Frequency (MHz) | Gated RMS (dBm) | Limit Max (dBm) | Gated EIRP (dBm) | DutyCycle (%) | Result |
|---------------------|-----------------|-----------------|------------------|---------------|--------|
| 2441.000000         | -1.6            | 21.0            | 0.9              | 77.594        | PASS   |



— Gated Trace — Overall — Limit

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



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## TEST REPORT

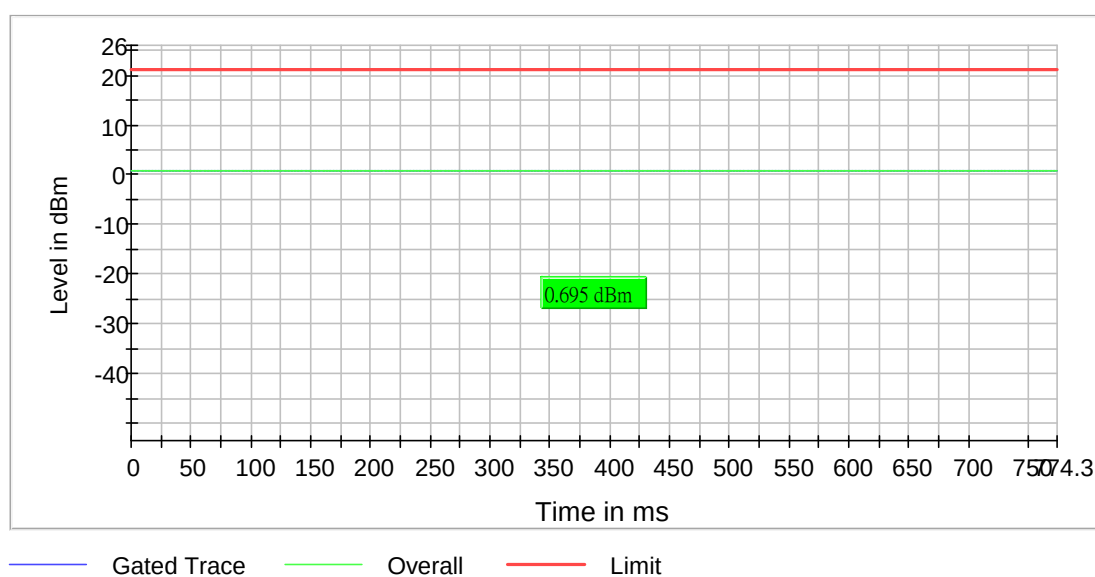
Report No. : AY0056077(3)

Date : Oct 17, 2019

### RF output power (2480 MHz; GFSK; DH5)

#### Result

| DUT Frequency (MHz) | Gated RMS (dBm) | Limit Max (dBm) | Gated EIRP (dBm) | DutyCycle (%) | Result |
|---------------------|-----------------|-----------------|------------------|---------------|--------|
| 2480.000000         | 0.7             | 21.0            | 3.2              | 77.598        | PASS   |



FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



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## TEST REPORT

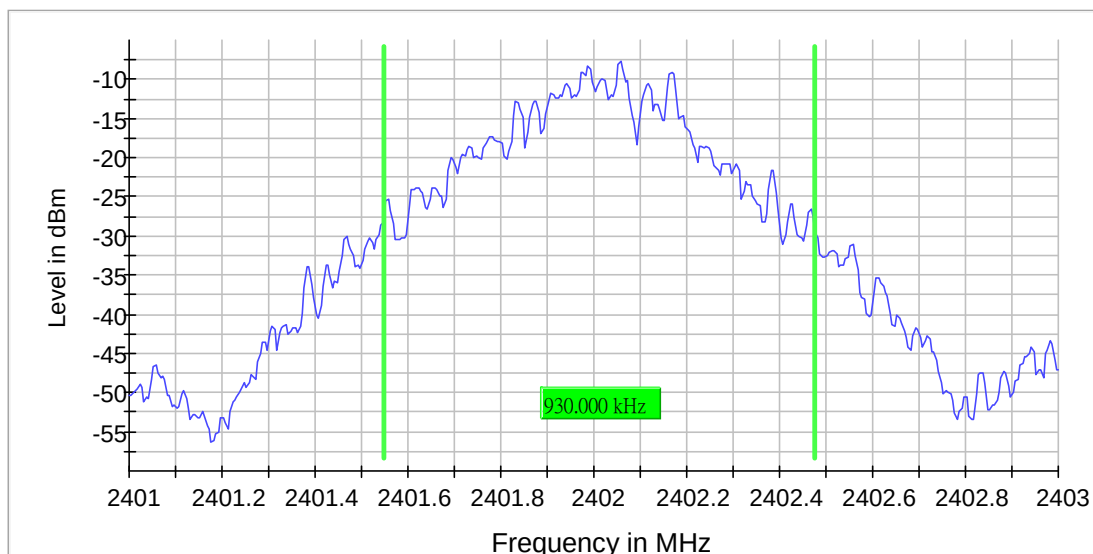
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Emission Bandwidth 20 dB (2402 MHz; GFSK; DH5)

#### 20 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2402.000000         | 0.930000        | ---             | ---             | 2401.547500          | 2402.477500           |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.40100 GHz      | 2.40100 GHz   |
| Stop Frequency        | 2.40300 GHz      | 2.40300 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 $\mu$ s  | AUTO          |
| Reference Level       | -10.000 dBm      | -10.000 dBm   |
| Attenuation           | 10.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 8 / max. 150     | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.21 dB          | 0.50 dB       |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



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## TEST REPORT

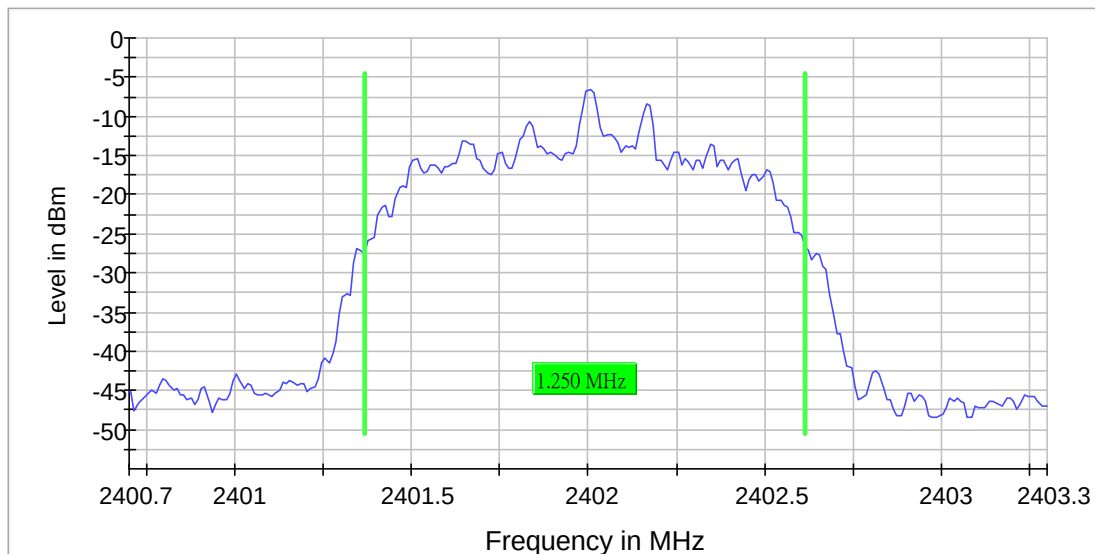
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Emission Bandwidth 20 dB (2402 MHz; $\pi/4$ DQPSK; 2DH5)

#### 20 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2402.000000         | 1.250000        | ---             | ---             | 2401.365000          | 2402.615000           |



#### Measurement

| Setting               | Instrument Value | Target Value      |
|-----------------------|------------------|-------------------|
| Start Frequency       | 2.40070 GHz      | 2.40070 GHz       |
| Stop Frequency        | 2.40330 GHz      | 2.40330 GHz       |
| Span                  | 2.600 MHz        | 2.600 MHz         |
| RBW                   | 20.000 kHz       | $\geq 13.000$ kHz |
| VBW                   | 100.000 kHz      | $\geq 60.000$ kHz |
| SweepPoints           | 260              | $\sim 260$        |
| SweepTime             | 94.727 $\mu$ s   | AUTO              |
| Reference Level       | -10.000 dBm      | -10.000 dBm       |
| Attenuation           | 10.000 dB        | AUTO              |
| Detector              | MaxPeak          | MaxPeak           |
| SweepCount            | 200              | 200               |
| Filter                | 3 dB             | 3 dB              |
| Trace Mode            | Max Hold         | Max Hold          |
| SweepType             | FFT              | AUTO              |
| Preamp                | off              | off               |
| Stablemode            | Trace            | Trace             |
| Stablevalue           | 0.50 dB          | 0.50 dB           |
| Run                   | 8 / max. 150     | max. 150          |
| Stable                | 5 / 5            | 5                 |
| Max Stable Difference | 0.50 dB          | 0.50 dB           |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



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## TEST REPORT

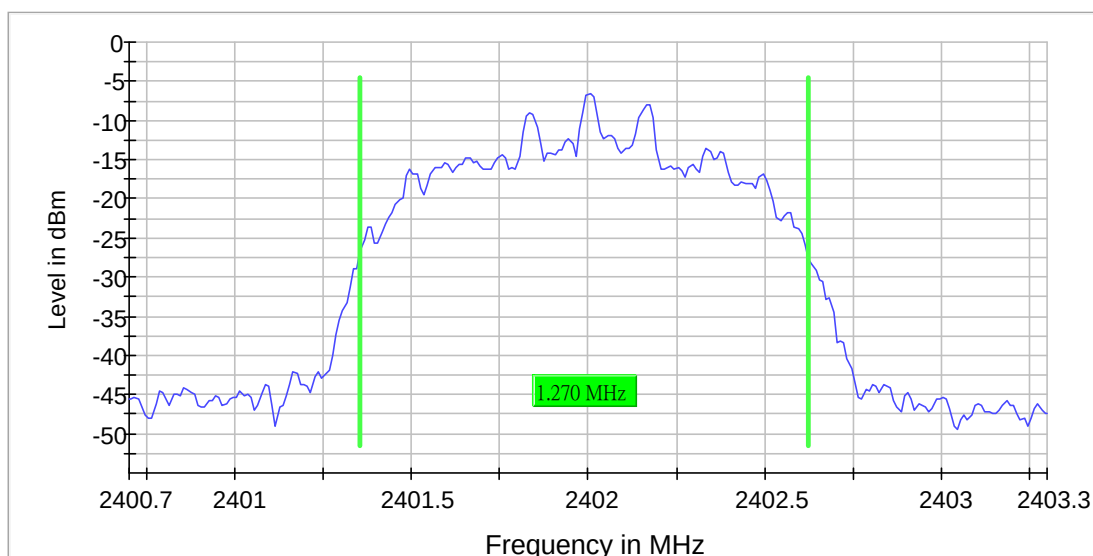
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Emission Bandwidth 20 dB(2) (2402 MHz; 8DPSK; 3DH5)

#### 20 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2402.000000         | 1.270000        | ---             | ---             | 2401.355000          | 2402.625000           |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.40070 GHz      | 2.40070 GHz   |
| Stop Frequency        | 2.40330 GHz      | 2.40330 GHz   |
| Span                  | 2.600 MHz        | 2.600 MHz     |
| RBW                   | 20.000 kHz       | >= 13.000 kHz |
| VBW                   | 100.000 kHz      | >= 60.000 kHz |
| SweepPoints           | 260              | ~ 260         |
| SweepTime             | 94.727 $\mu$ s   | AUTO          |
| Reference Level       | -10.000 dBm      | -10.000 dBm   |
| Attenuation           | 10.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 8 / max. 150     | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.17 dB          | 0.50 dB       |

FCC ID: 2AREB-AIRFLYDUO

IC: 24385-AIRFLYDUO



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## TEST REPORT

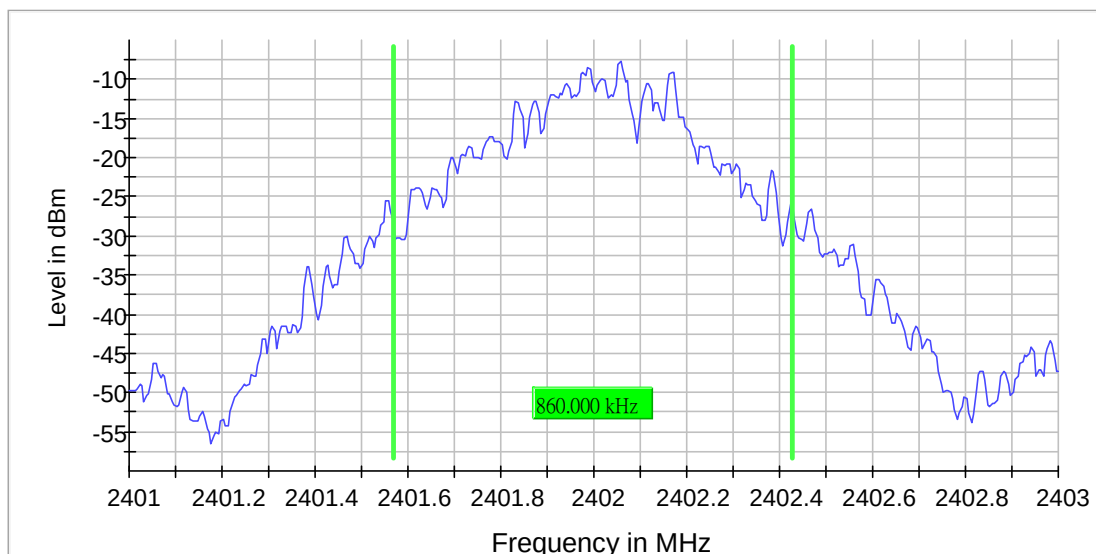
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Occupied Channel Bandwidth 99% (2402 MHz; GFSK; DH5)

#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2402.000000         | 0.860000        | ---             | ---             | 2401.567500          | 2402.427500           |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.40100 GHz      | 2.40100 GHz   |
| Stop Frequency        | 2.40300 GHz      | 2.40300 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 $\mu$ s  | AUTO          |
| Reference Level       | -10.000 dBm      | -10.000 dBm   |
| Attenuation           | 10.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 500              | 500           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 4 / max. 150     | max. 150      |
| Stable                | 3 / 3            | 3             |
| Max Stable Difference | 0.13 dB          | 0.30 dB       |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



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## TEST REPORT

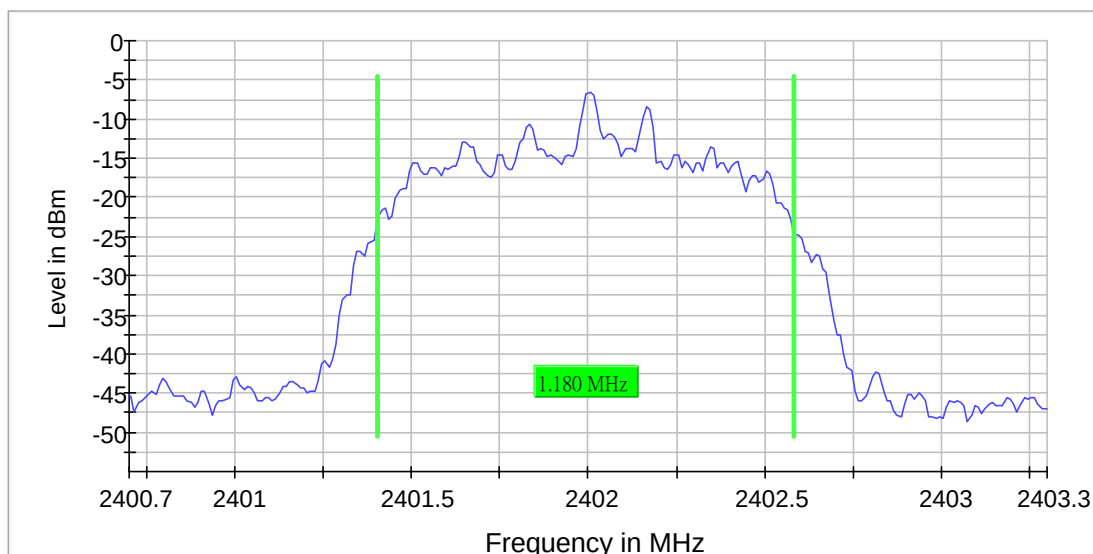
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Occupied Channel Bandwidth 99% (2402 MHz; $\pi/4$ DQPSK; 2DH5)

#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2402.000000         | 1.180000        | ---             | ---             | 2401.405000          | 2402.585000           |



#### Measurement

| Setting               | Instrument Value | Target Value      |
|-----------------------|------------------|-------------------|
| Start Frequency       | 2.40070 GHz      | 2.40070 GHz       |
| Stop Frequency        | 2.40330 GHz      | 2.40330 GHz       |
| Span                  | 2.600 MHz        | 2.600 MHz         |
| RBW                   | 20.000 kHz       | $\geq 13.000$ kHz |
| VBW                   | 100.000 kHz      | $\geq 60.000$ kHz |
| SweepPoints           | 260              | ~ 260             |
| SweepTime             | 94.727 $\mu$ s   | AUTO              |
| Reference Level       | -10.000 dBm      | -10.000 dBm       |
| Attenuation           | 10.000 dB        | AUTO              |
| Detector              | MaxPeak          | MaxPeak           |
| SweepCount            | 500              | 500               |
| Filter                | 3 dB             | 3 dB              |
| Trace Mode            | Max Hold         | Max Hold          |
| SweepType             | FFT              | AUTO              |
| Preamplifier          | off              | off               |
| Stablemode            | Trace            | Trace             |
| Stablevalue           | 0.30 dB          | 0.30 dB           |
| Run                   | 6 / max. 150     | max. 150          |
| Stable                | 3 / 3            | 3                 |
| Max Stable Difference | 0.07 dB          | 0.30 dB           |

FCC ID: 2AREB-AIRFLYDUO

IC: 24385-AIRFLYDUO



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## TEST REPORT

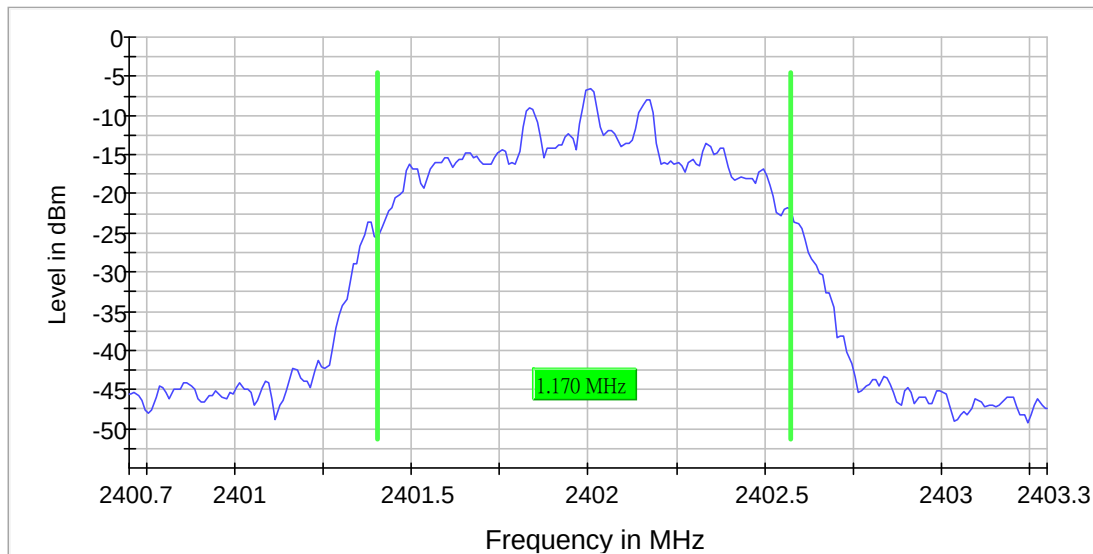
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Occupied Channel Bandwidth 99%(2) (2402 MHz; 8DPSK; 3DH5)

#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2402.000000         | 1.170000        | ---             | ---             | 2401.405000          | 2402.575000           |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.40070 GHz      | 2.40070 GHz   |
| Stop Frequency        | 2.40330 GHz      | 2.40330 GHz   |
| Span                  | 2.600 MHz        | 2.600 MHz     |
| RBW                   | 20.000 kHz       | >= 13.000 kHz |
| VBW                   | 100.000 kHz      | >= 60.000 kHz |
| SweepPoints           | 260              | ~ 260         |
| SweepTime             | 94.727 $\mu$ s   | AUTO          |
| Reference Level       | -10.000 dBm      | -10.000 dBm   |
| Attenuation           | 10.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 500              | 500           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 5 / max. 150     | max. 150      |
| Stable                | 3 / 3            | 3             |
| Max Stable Difference | 0.13 dB          | 0.30 dB       |

FCC ID: 2AREB-AIRFLYDUO

IC: 24385-AIRFLYDUO



# CMA Testing and Certification Laboratories

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## TEST REPORT

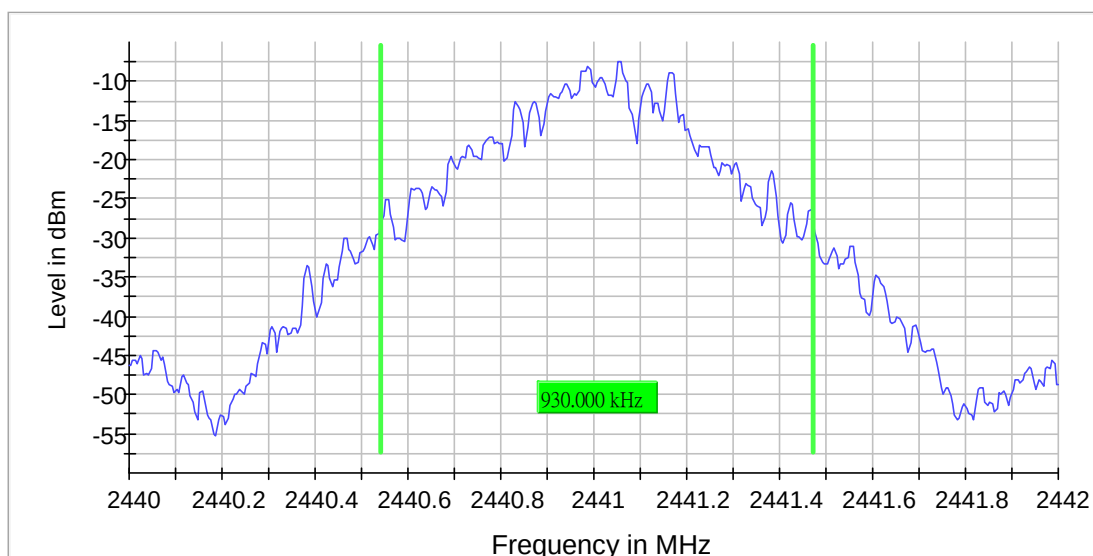
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Emission Bandwidth 20 dB (2441 MHz; GFSK; DH5)

#### 20 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2441.000000         | 0.930000        | ---             | ---             | 2440.542500          | 2441.472500           |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.44000 GHz      | 2.44000 GHz   |
| Stop Frequency        | 2.44200 GHz      | 2.44200 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 $\mu$ s  | AUTO          |
| Reference Level       | -10.000 dBm      | -10.000 dBm   |
| Attenuation           | 10.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 7 / max. 150     | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.15 dB          | 0.50 dB       |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



# CMA Testing and Certification Laboratories

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## TEST REPORT

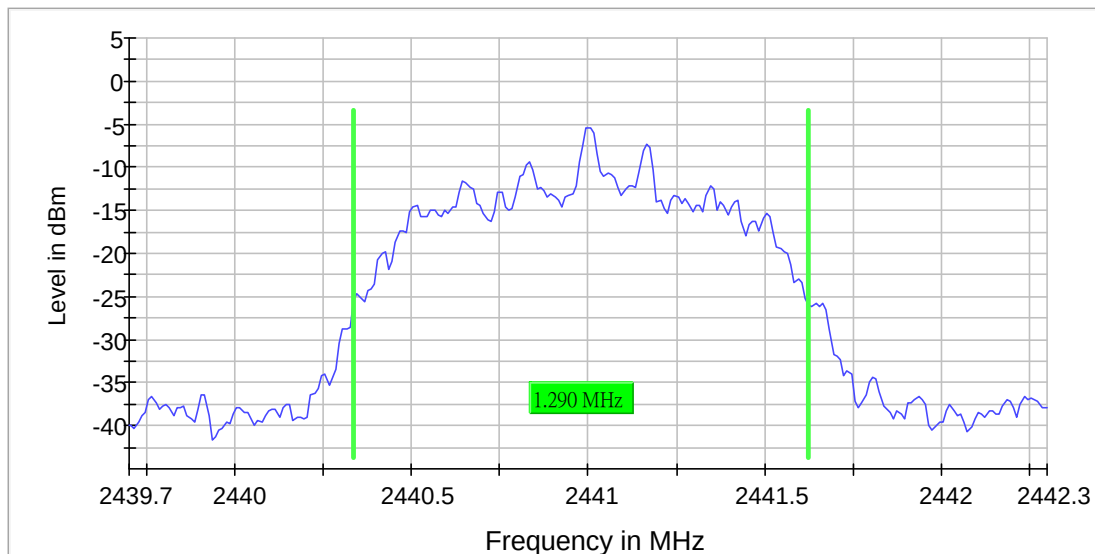
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Emission Bandwidth 20 dB (2441 MHz; $\pi/4$ DQPSK; 2DH5)

#### 20 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2441.000000         | 1.290000        | ---             | ---             | 2440.335000          | 2441.625000           |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.43970 GHz      | 2.43970 GHz   |
| Stop Frequency        | 2.44230 GHz      | 2.44230 GHz   |
| Span                  | 2.600 MHz        | 2.600 MHz     |
| RBW                   | 20.000 kHz       | >= 13.000 kHz |
| VBW                   | 100.000 kHz      | >= 60.000 kHz |
| SweepPoints           | 260              | ~ 260         |
| SweepTime             | 94.727 $\mu$ s   | AUTO          |
| Reference Level       | -10.000 dBm      | -10.000 dBm   |
| Attenuation           | 10.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 14 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.07 dB          | 0.50 dB       |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



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## TEST REPORT

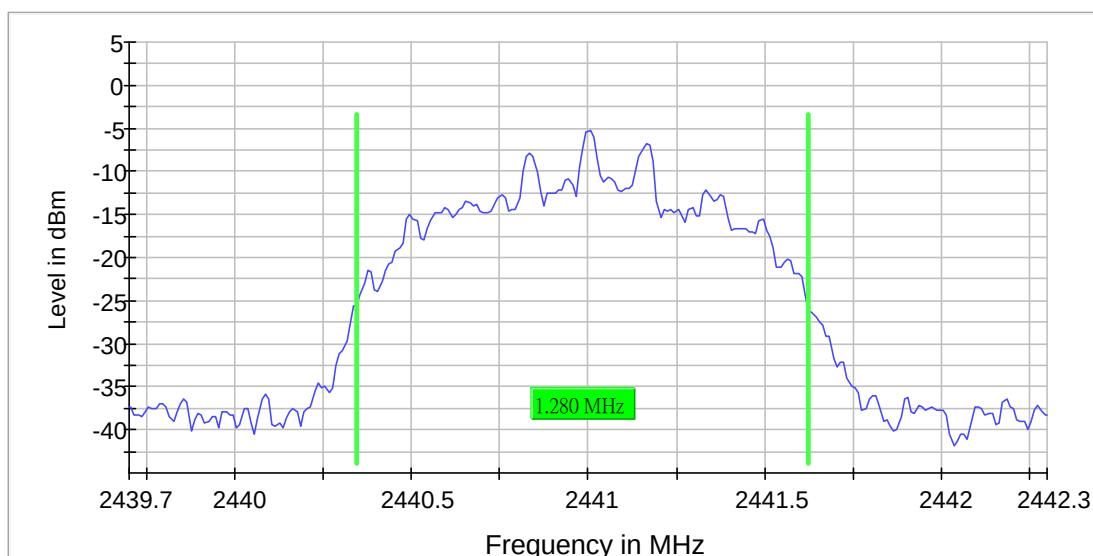
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Emission Bandwidth 20 dB(2) (2441 MHz; 8DPSK; 3DH5)

#### 20 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2441.000000         | 1.280000        | ---             | ---             | 2440.345000          | 2441.625000           |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.43970 GHz      | 2.43970 GHz   |
| Stop Frequency        | 2.44230 GHz      | 2.44230 GHz   |
| Span                  | 2.600 MHz        | 2.600 MHz     |
| RBW                   | 20.000 kHz       | >= 13.000 kHz |
| VBW                   | 100.000 kHz      | >= 60.000 kHz |
| SweepPoints           | 260              | ~ 260         |
| SweepTime             | 94.727 $\mu$ s   | AUTO          |
| Reference Level       | -10.000 dBm      | -10.000 dBm   |
| Attenuation           | 10.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 8 / max. 150     | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.22 dB          | 0.50 dB       |

FCC ID: 2AREB-AIRFLYDUO

IC: 24385-AIRFLYDUO



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## TEST REPORT

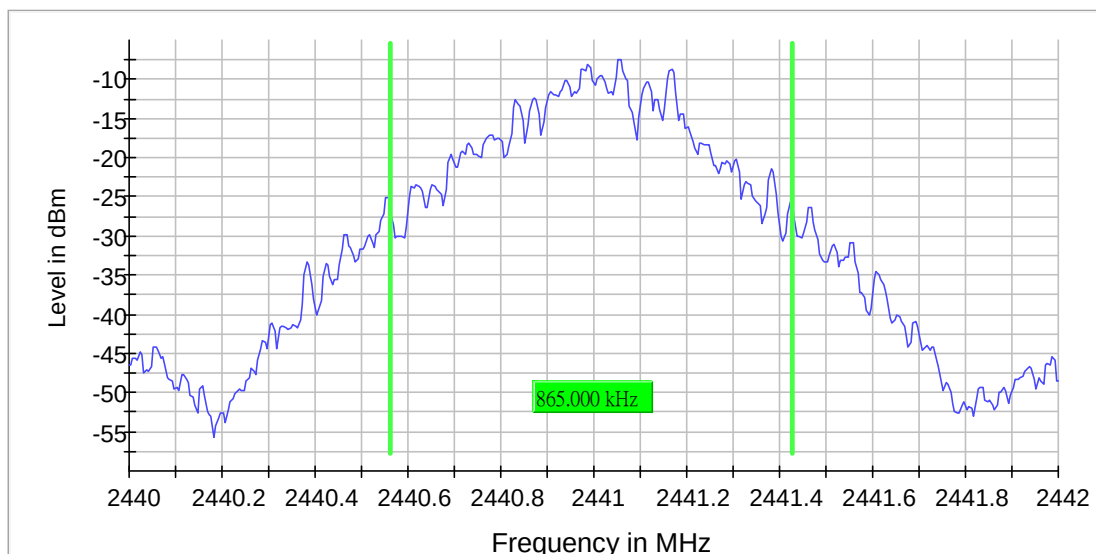
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Occupied Channel Bandwidth 99% (2441 MHz; GFSK; DH5)

#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2441.000000         | 0.865000        | ---             | ---             | 2440.562500          | 2441.427500           |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.44000 GHz      | 2.44000 GHz   |
| Stop Frequency        | 2.44200 GHz      | 2.44200 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 $\mu$ s  | AUTO          |
| Reference Level       | -10.000 dBm      | -10.000 dBm   |
| Attenuation           | 10.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 500              | 500           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 5 / max. 150     | max. 150      |
| Stable                | 3 / 3            | 3             |
| Max Stable Difference | 0.08 dB          | 0.30 dB       |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



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## TEST REPORT

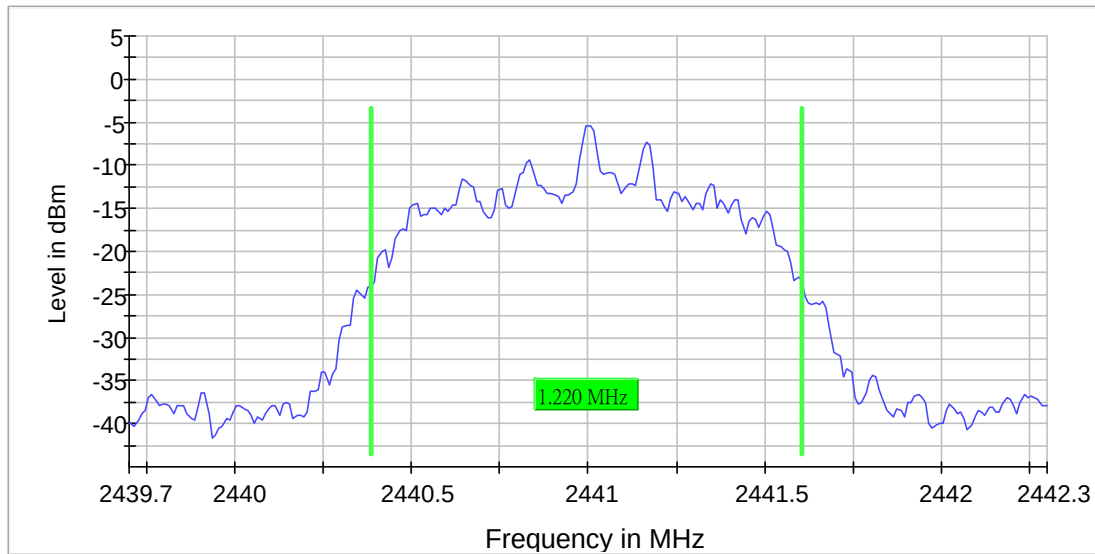
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Occupied Channel Bandwidth 99% (2441 MHz; $\pi/4$ DQPSK; 2DH5)

#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2441.000000         | 1.220000        | ---             | ---             | 2440.385000          | 2441.605000           |



#### Measurement

| Setting               | Instrument Value | Target Value      |
|-----------------------|------------------|-------------------|
| Start Frequency       | 2.43970 GHz      | 2.43970 GHz       |
| Stop Frequency        | 2.44230 GHz      | 2.44230 GHz       |
| Span                  | 2.600 MHz        | 2.600 MHz         |
| RBW                   | 20.000 kHz       | $\geq 13.000$ kHz |
| VBW                   | 100.000 kHz      | $\geq 60.000$ kHz |
| SweepPoints           | 260              | ~ 260             |
| SweepTime             | 94.727 $\mu$ s   | AUTO              |
| Reference Level       | -10.000 dBm      | -10.000 dBm       |
| Attenuation           | 10.000 dB        | AUTO              |
| Detector              | MaxPeak          | MaxPeak           |
| SweepCount            | 500              | 500               |
| Filter                | 3 dB             | 3 dB              |
| Trace Mode            | Max Hold         | Max Hold          |
| SweepType             | FFT              | AUTO              |
| Preamp                | off              | off               |
| Stablemode            | Trace            | Trace             |
| Stablevalue           | 0.30 dB          | 0.30 dB           |
| Run                   | 7 / max. 150     | max. 150          |
| Stable                | 3 / 3            | 3                 |
| Max Stable Difference | 0.04 dB          | 0.30 dB           |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



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## TEST REPORT

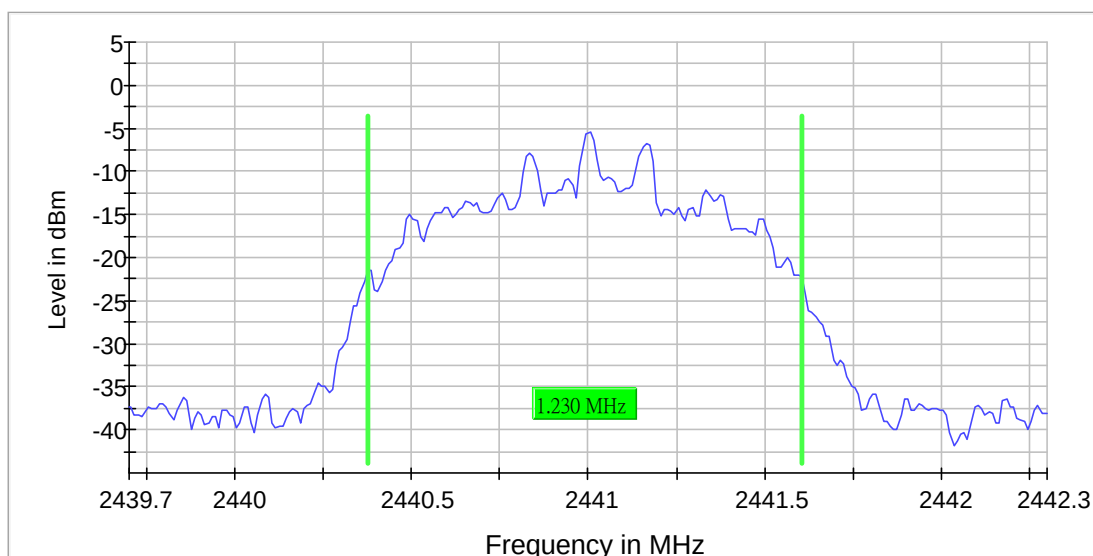
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Occupied Channel Bandwidth 99%(2) (2441 MHz; 8DPSK; 3DH5)

#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2441.000000         | 1.230000        | ---             | ---             | 2440.375000          | 2441.605000           |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.43970 GHz      | 2.43970 GHz   |
| Stop Frequency        | 2.44230 GHz      | 2.44230 GHz   |
| Span                  | 2.600 MHz        | 2.600 MHz     |
| RBW                   | 20.000 kHz       | >= 13.000 kHz |
| VBW                   | 100.000 kHz      | >= 60.000 kHz |
| SweepPoints           | 260              | ~ 260         |
| SweepTime             | 94.727 $\mu$ s   | AUTO          |
| Reference Level       | -10.000 dBm      | -10.000 dBm   |
| Attenuation           | 10.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 500              | 500           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 7 / max. 150     | max. 150      |
| Stable                | 3 / 3            | 3             |
| Max Stable Difference | 0.06 dB          | 0.30 dB       |

FCC ID: 2AREB-AIRFLYDUO

IC: 24385-AIRFLYDUO



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## TEST REPORT

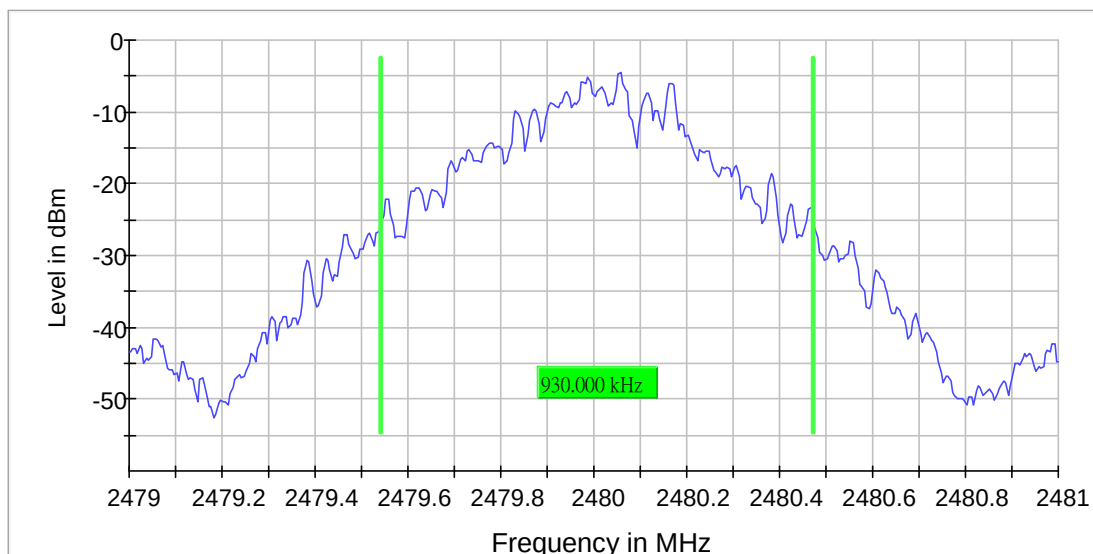
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Emission Bandwidth 20 dB (2480 MHz; GFSK; DH5)

#### 20 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000         | 0.930000        | ---             | ---             | 2479.542500          | 2480.472500           |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.47900 GHz      | 2.47900 GHz   |
| Stop Frequency        | 2.48100 GHz      | 2.48100 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 $\mu$ s  | AUTO          |
| Reference Level       | 0.000 dBm        | 0.000 dBm     |
| Attenuation           | 20.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 8 / max. 150     | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.07 dB          | 0.50 dB       |

FCC ID: 2AREB-AIRFLYDUO

IC: 24385-AIRFLYDUO



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## TEST REPORT

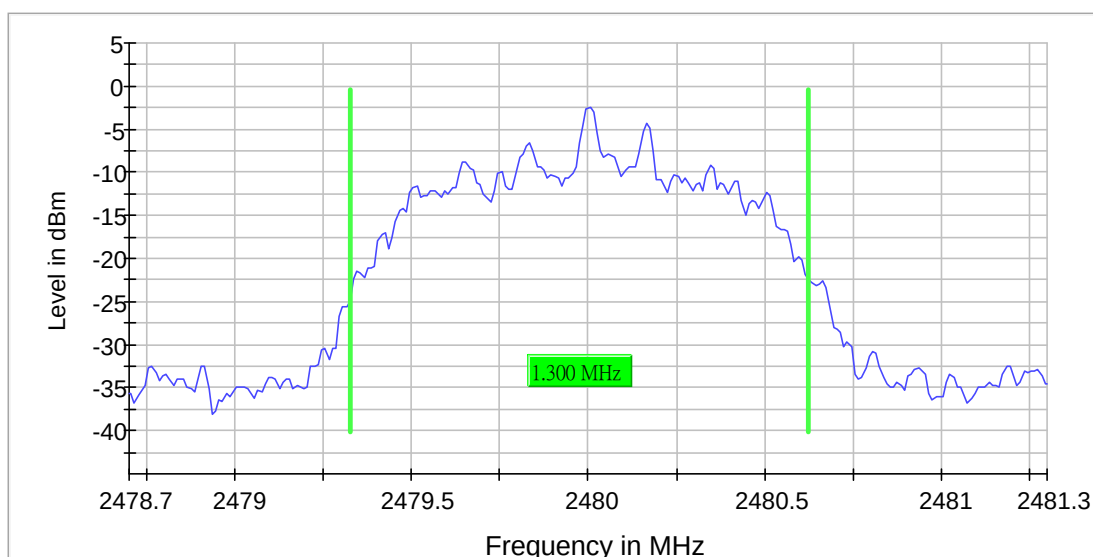
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Emission Bandwidth 20 dB (2480 MHz; $\pi/4$ DQPSK; 2DH5)

#### 20 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000         | 1.300000        | ---             | ---             | 2479.325000          | 2480.625000           |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.47870 GHz      | 2.47870 GHz   |
| Stop Frequency        | 2.48130 GHz      | 2.48130 GHz   |
| Span                  | 2.600 MHz        | 2.600 MHz     |
| RBW                   | 20.000 kHz       | >= 13.000 kHz |
| VBW                   | 100.000 kHz      | >= 60.000 kHz |
| SweepPoints           | 260              | ~ 260         |
| SweepTime             | 94.727 $\mu$ s   | AUTO          |
| Reference Level       | -10.000 dBm      | -10.000 dBm   |
| Attenuation           | 10.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 14 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.00 dB          | 0.50 dB       |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



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## TEST REPORT

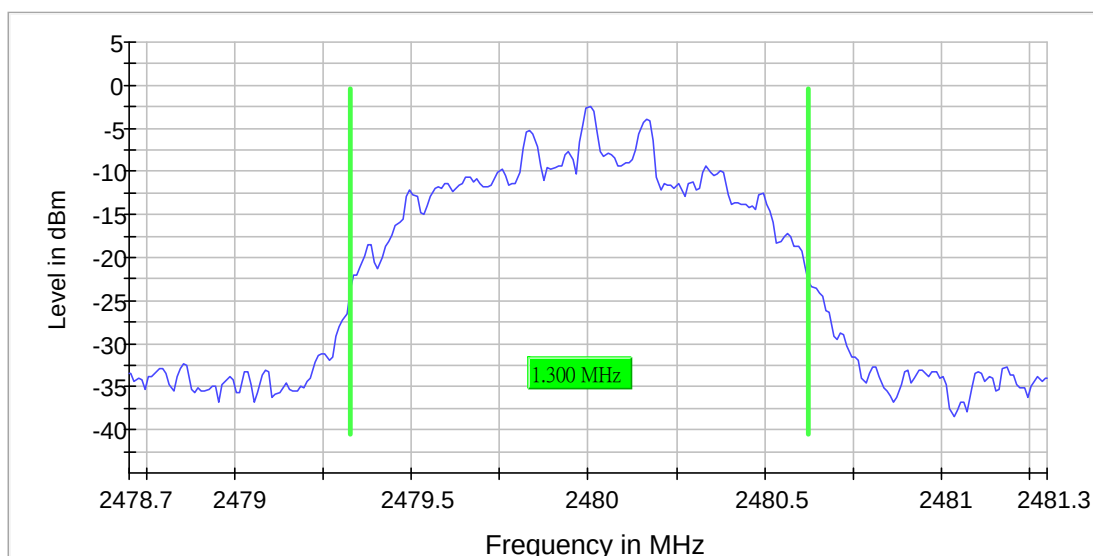
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Emission Bandwidth 20 dB(2) (2480 MHz; 8DPSK; 3DH5)

#### 20 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000         | 1.300000        | ---             | ---             | 2479.325000          | 2480.625000           |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.47870 GHz      | 2.47870 GHz   |
| Stop Frequency        | 2.48130 GHz      | 2.48130 GHz   |
| Span                  | 2.600 MHz        | 2.600 MHz     |
| RBW                   | 20.000 kHz       | >= 13.000 kHz |
| VBW                   | 100.000 kHz      | >= 60.000 kHz |
| SweepPoints           | 260              | ~ 260         |
| SweepTime             | 94.727 $\mu$ s   | AUTO          |
| Reference Level       | -10.000 dBm      | -10.000 dBm   |
| Attenuation           | 10.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 200              | 200           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 9 / max. 150     | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.13 dB          | 0.50 dB       |

FCC ID: 2AREB-AIRFLYDUO

IC: 24385-AIRFLYDUO



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## TEST REPORT

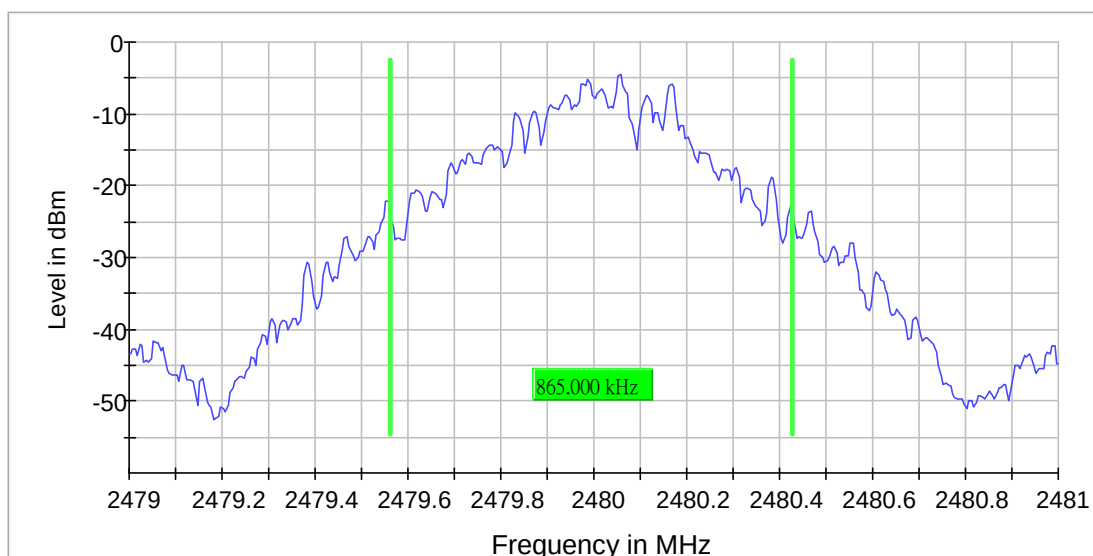
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Occupied Channel Bandwidth 99% (2480 MHz; GFSK; DH5)

#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000         | 0.865000        | ---             | ---             | 2479.562500          | 2480.427500           |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.47900 GHz      | 2.47900 GHz   |
| Stop Frequency        | 2.48100 GHz      | 2.48100 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 $\mu$ s  | AUTO          |
| Reference Level       | 0.000 dBm        | 0.000 dBm     |
| Attenuation           | 20.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 500              | 500           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 4 / max. 150     | max. 150      |
| Stable                | 3 / 3            | 3             |
| Max Stable Difference | 0.16 dB          | 0.30 dB       |

FCC ID: 2AREB-AIRFLYDUO

IC: 24385-AIRFLYDUO



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## TEST REPORT

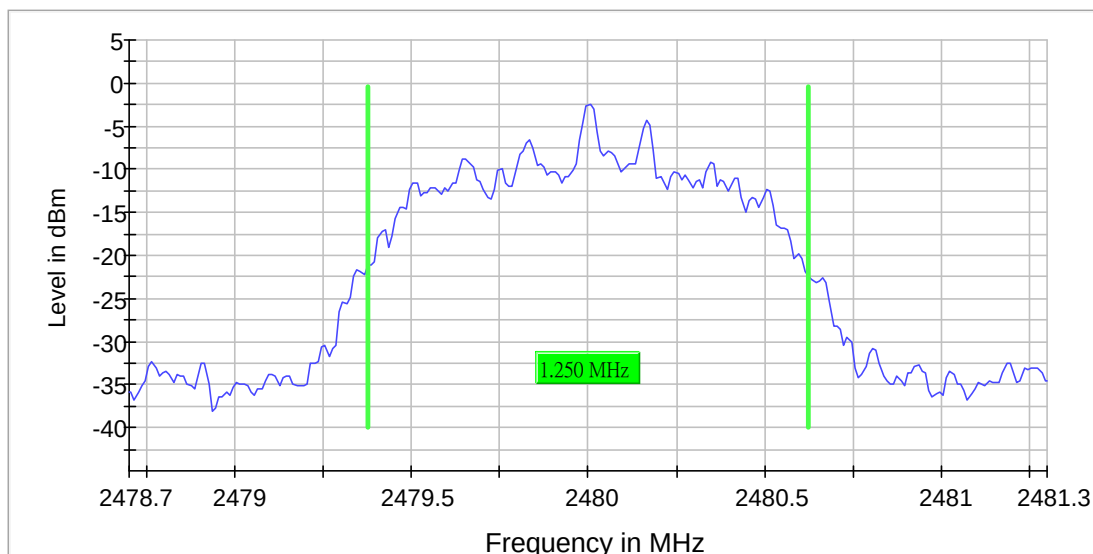
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Occupied Channel Bandwidth 99% (2480 MHz; $\pi/4$ DQPSK; 2DH5)

#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000         | 1.250000        | ---             | ---             | 2479.375000          | 2480.625000           |



#### Measurement

| Setting               | Instrument Value | Target Value      |
|-----------------------|------------------|-------------------|
| Start Frequency       | 2.47870 GHz      | 2.47870 GHz       |
| Stop Frequency        | 2.48130 GHz      | 2.48130 GHz       |
| Span                  | 2.600 MHz        | 2.600 MHz         |
| RBW                   | 20.000 kHz       | $\geq 13.000$ kHz |
| VBW                   | 100.000 kHz      | $\geq 60.000$ kHz |
| SweepPoints           | 260              | ~ 260             |
| SweepTime             | 94.727 $\mu$ s   | AUTO              |
| Reference Level       | -10.000 dBm      | -10.000 dBm       |
| Attenuation           | 10.000 dB        | AUTO              |
| Detector              | MaxPeak          | MaxPeak           |
| SweepCount            | 500              | 500               |
| Filter                | 3 dB             | 3 dB              |
| Trace Mode            | Max Hold         | Max Hold          |
| SweepType             | FFT              | AUTO              |
| Preamp                | off              | off               |
| Stablemode            | Trace            | Trace             |
| Stablevalue           | 0.30 dB          | 0.30 dB           |
| Run                   | 5 / max. 150     | max. 150          |
| Stable                | 3 / 3            | 3                 |
| Max Stable Difference | 0.21 dB          | 0.30 dB           |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



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## TEST REPORT

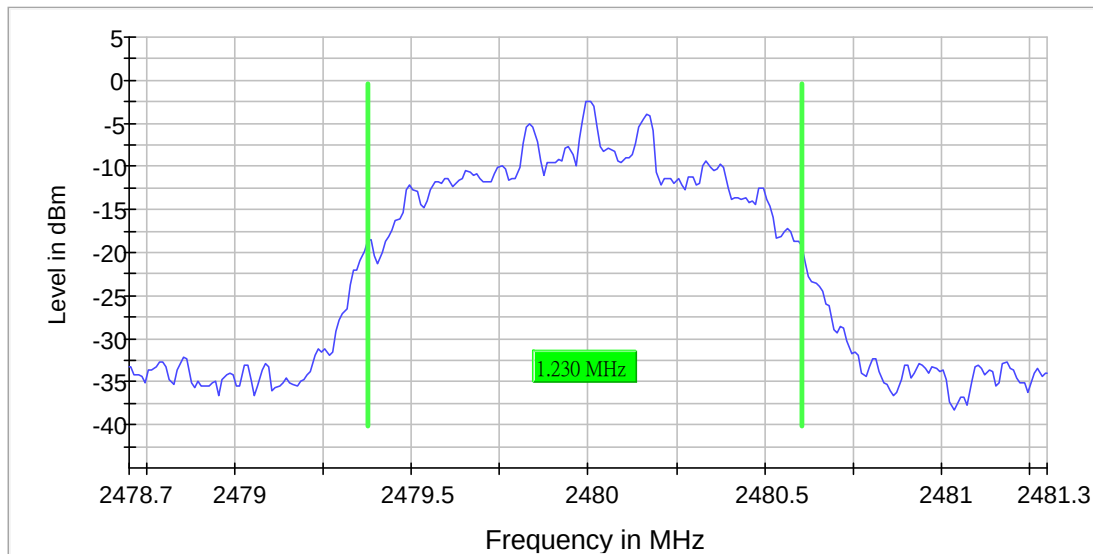
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Occupied Channel Bandwidth 99%(2) (2480 MHz; 8DPSK; 3DH5)

#### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000         | 1.230000        | ---             | ---             | 2479.375000          | 2480.605000           |



#### Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.47870 GHz      | 2.47870 GHz   |
| Stop Frequency        | 2.48130 GHz      | 2.48130 GHz   |
| Span                  | 2.600 MHz        | 2.600 MHz     |
| RBW                   | 20.000 kHz       | >= 13.000 kHz |
| VBW                   | 100.000 kHz      | >= 60.000 kHz |
| SweepPoints           | 260              | ~ 260         |
| SweepTime             | 94.727 $\mu$ s   | AUTO          |
| Reference Level       | -10.000 dBm      | -10.000 dBm   |
| Attenuation           | 10.000 dB        | AUTO          |
| Detector              | MaxPeak          | MaxPeak       |
| SweepCount            | 500              | 500           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.30 dB          | 0.30 dB       |
| Run                   | 6 / max. 150     | max. 150      |
| Stable                | 3 / 3            | 3             |
| Max Stable Difference | 0.07 dB          | 0.30 dB       |

FCC ID: 2AREB-AIRFLYDUO

IC: 24385-AIRFLYDUO



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## TEST REPORT

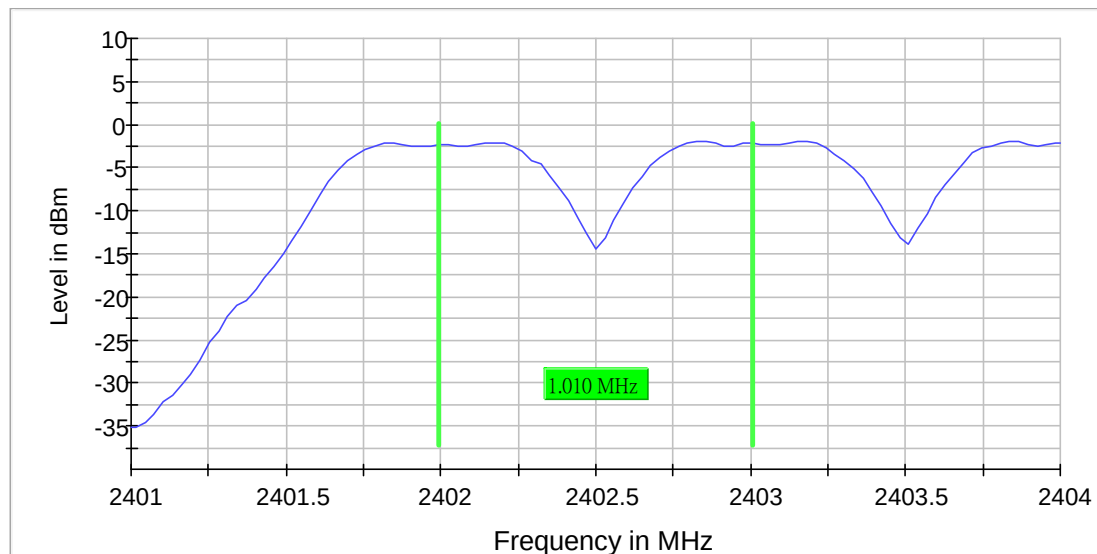
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Carrier Frequency Separation (2402 MHz; GFSK; DH5)

#### Result

| DUT Frequency (MHz) | Frequency Separation (MHz) | Limit Min (MHz) | Limit Max (MHz) | Center Frequency low Channel (MHz) | Center Frequency high Channel (MHz) |
|---------------------|----------------------------|-----------------|-----------------|------------------------------------|-------------------------------------|
| 2402.000000         | 1.009900                   | 0.866667        | ---             | 2401.995050                        | 2403.004950                         |



#### Measurement

| Setting               | Instrument Value | Target Value       |
|-----------------------|------------------|--------------------|
| Start Frequency       | 2.40100 GHz      | 2.40100 GHz        |
| Stop Frequency        | 2.40400 GHz      | 2.40400 GHz        |
| Span                  | 3.000 MHz        | 3.000 MHz          |
| RBW                   | 300.000 kHz      | $\leq 300.000$ kHz |
| VBW                   | 300.000 kHz      | $\geq 300.000$ kHz |
| SweepPoints           | 101              | ~ 10               |
| SweepTime             | 1.000 ms         | AUTO               |
| Reference Level       | -10.000 dBm      | -10.000 dBm        |
| Attenuation           | 10.000 dB        | AUTO               |
| Detector              | MaxPeak          | MaxPeak            |
| SweepCount            | 200              | 200                |
| Filter                | 3 dB             | 3 dB               |
| Trace Mode            | Max Hold         | Max Hold           |
| SweepType             | Sweep            | Sweep              |
| Preamplifier          | off              | off                |
| Stablemode            | Trace            | Trace              |
| Stablevalue           | 0.50 dB          | 0.50 dB            |
| Run                   | 26 / max. 150    | max. 150           |
| Stable                | 10 / 10          | 10                 |
| Max Stable Difference | 0.02 dB          | 0.50 dB            |

FCC ID: 2AREB-AIRFLYDUO

IC: 24385-AIRFLYDUO



# CMA Testing and Certification Laboratories

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## TEST REPORT

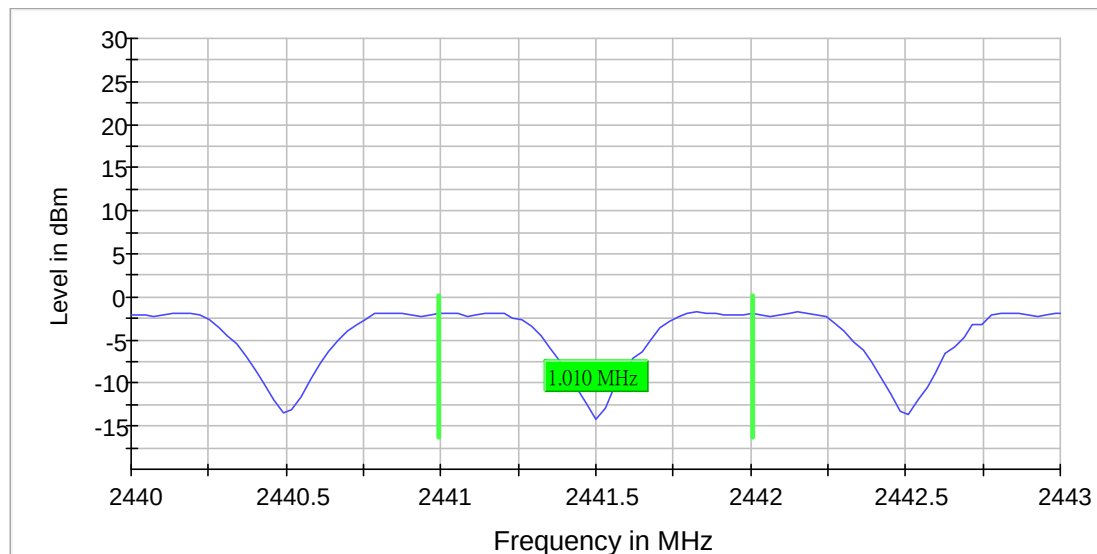
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Carrier Frequency Separation (2441 MHz; GFSK; DH5)

#### Result

| DUT Frequency (MHz) | Frequency Separation (MHz) | Limit Min (MHz) | Limit Max (MHz) | Center Frequency low Channel (MHz) | Center Frequency high Channel (MHz) |
|---------------------|----------------------------|-----------------|-----------------|------------------------------------|-------------------------------------|
| 2441.000000         | 1.009900                   | 0.866667        | ---             | 2440.995050                        | 2442.004950                         |



#### Measurement

| Setting               | Instrument Value | Target Value       |
|-----------------------|------------------|--------------------|
| Start Frequency       | 2.44000 GHz      | 2.44000 GHz        |
| Stop Frequency        | 2.44300 GHz      | 2.44300 GHz        |
| Span                  | 3.000 MHz        | 3.000 MHz          |
| RBW                   | 300.000 kHz      | $\leq 300.000$ kHz |
| VBW                   | 300.000 kHz      | $\geq 300.000$ kHz |
| SweepPoints           | 101              | ~ 10               |
| SweepTime             | 1.000 ms         | AUTO               |
| Reference Level       | -10.000 dBm      | -10.000 dBm        |
| Attenuation           | 10.000 dB        | AUTO               |
| Detector              | MaxPeak          | MaxPeak            |
| SweepCount            | 200              | 200                |
| Filter                | 3 dB             | 3 dB               |
| Trace Mode            | Max Hold         | Max Hold           |
| SweepType             | Sweep            | Sweep              |
| Preamplifier          | off              | off                |
| Stablemode            | Trace            | Trace              |
| Stablevalue           | 0.50 dB          | 0.50 dB            |
| Run                   | 11 / max. 150    | max. 150           |
| Stable                | 10 / 10          | 10                 |
| Max Stable Difference | 0.00 dB          | 0.50 dB            |

FCC ID: 2AREB-AIRFLYDUO

IC: 24385-AIRFLYDUO



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

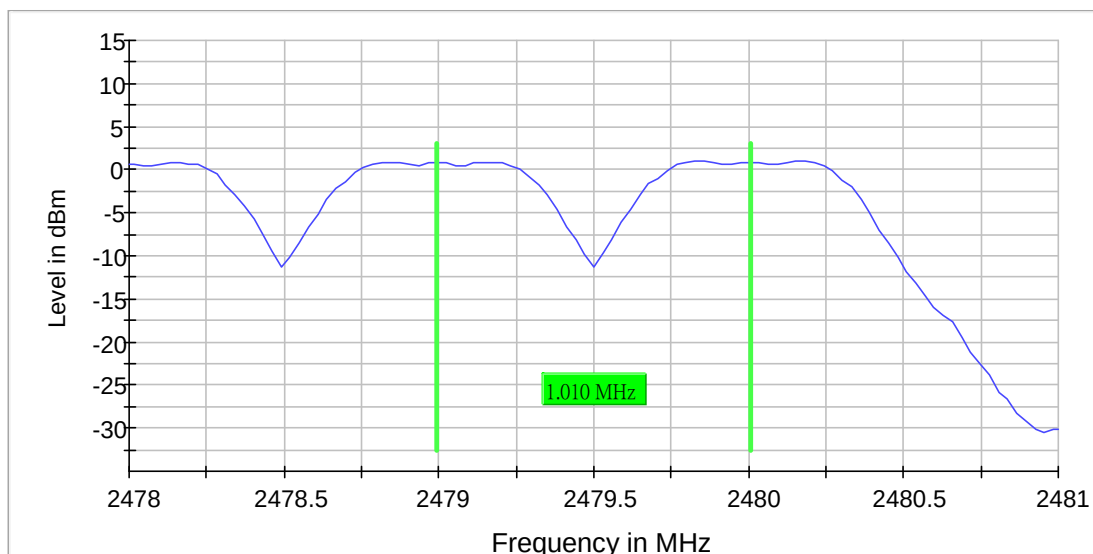
Report No. : AY0056077(3)

Date : Oct 17, 2019

### Carrier Frequency Separation (2479 MHz; GFSK; DH5)

#### Result

| DUT Frequency (MHz) | Frequency Separation (MHz) | Limit Min (MHz) | Limit Max (MHz) | Center Frequency low Channel (MHz) | Center Frequency high Channel (MHz) |
|---------------------|----------------------------|-----------------|-----------------|------------------------------------|-------------------------------------|
| 2479.000000         | 1.009900                   | 0.866667        | ---             | 2478.995050                        | 2480.004950                         |



#### Measurement

| Setting               | Instrument Value | Target Value       |
|-----------------------|------------------|--------------------|
| Start Frequency       | 2.47800 GHz      | 2.47800 GHz        |
| Stop Frequency        | 2.48100 GHz      | 2.48100 GHz        |
| Span                  | 3.000 MHz        | 3.000 MHz          |
| RBW                   | 300.000 kHz      | $\leq 300.000$ kHz |
| VBW                   | 300.000 kHz      | $\geq 300.000$ kHz |
| SweepPoints           | 101              | ~ 10               |
| SweepTime             | 1.000 ms         | AUTO               |
| Reference Level       | 0.000 dBm        | 0.000 dBm          |
| Attenuation           | 20.000 dB        | AUTO               |
| Detector              | MaxPeak          | MaxPeak            |
| SweepCount            | 200              | 200                |
| Filter                | 3 dB             | 3 dB               |
| Trace Mode            | Max Hold         | Max Hold           |
| SweepType             | Sweep            | Sweep              |
| Preamplifier          | off              | off                |
| Stablemode            | Trace            | Trace              |
| Stablevalue           | 0.50 dB          | 0.50 dB            |
| Run                   | 17 / max. 150    | max. 150           |
| Stable                | 10 / 10          | 10                 |
| Max Stable Difference | 0.15 dB          | 0.50 dB            |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AY0056077(3)

Date : Oct 17, 2019

### Band Edge low (Hopping; GFSK; DH5)

#### Result

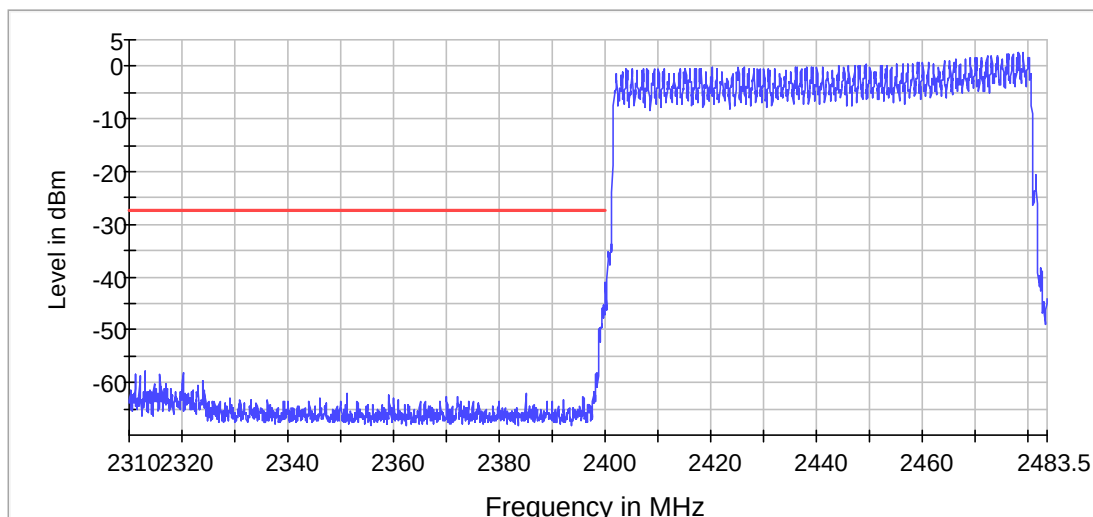
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| hopping             | PASS   |

#### Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 2479.025000     | 2.6         |

#### Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 2399.975000     | -41.0       | 13.6        | -27.4       | PASS   |
| 2399.925000     | -44.6       | 17.2        | -27.4       | PASS   |
| 2399.575000     | -45.2       | 17.8        | -27.4       | PASS   |
| 2399.525000     | -45.9       | 18.4        | -27.4       | PASS   |
| 2399.475000     | -45.9       | 18.5        | -27.4       | PASS   |
| 2399.425000     | -46.2       | 18.8        | -27.4       | PASS   |
| 2399.775000     | -46.4       | 19.0        | -27.4       | PASS   |
| 2399.875000     | -47.0       | 19.6        | -27.4       | PASS   |
| 2399.725000     | -47.0       | 19.6        | -27.4       | PASS   |
| 2399.825000     | -47.1       | 19.7        | -27.4       | PASS   |
| 2399.625000     | -47.6       | 20.2        | -27.4       | PASS   |
| 2399.675000     | -47.8       | 20.4        | -27.4       | PASS   |
| 2399.325000     | -48.9       | 21.5        | -27.4       | PASS   |
| 2399.225000     | -49.1       | 21.7        | -27.4       | PASS   |
| 2399.375000     | -49.3       | 21.9        | -27.4       | PASS   |



— Limit — Sum Level × Fail

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AY0056077(3)

Date : Oct 17, 2019

### Measurement 1

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.31000 GHz      | 2.31000 GHz    |
| Stop Frequency        | 2.40000 GHz      | 2.40000 GHz    |
| Span                  | 90.000 MHz       | 90.000 MHz     |
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 1800             | ~ 1800         |
| SweepTime             | 1.800 ms         | AUTO           |
| Reference Level       | -10.000 dBm      | -10.000 dBm    |
| Attenuation           | 10.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 19 / max. 150    | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

### Measurement 2

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.40000 GHz      | 2.40000 GHz    |
| Stop Frequency        | 2.48350 GHz      | 2.48350 GHz    |
| Span                  | 83.500 MHz       | 83.500 MHz     |
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 1670             | ~ 1670         |
| SweepTime             | 1.670 ms         | AUTO           |
| Reference Level       | -10.000 dBm      | -10.000 dBm    |
| Attenuation           | 10.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 120 / max. 150   | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AY0056077(3)

Date : Oct 17, 2019

### Band Edge high (Hopping; GFSK; DH5)

#### Result

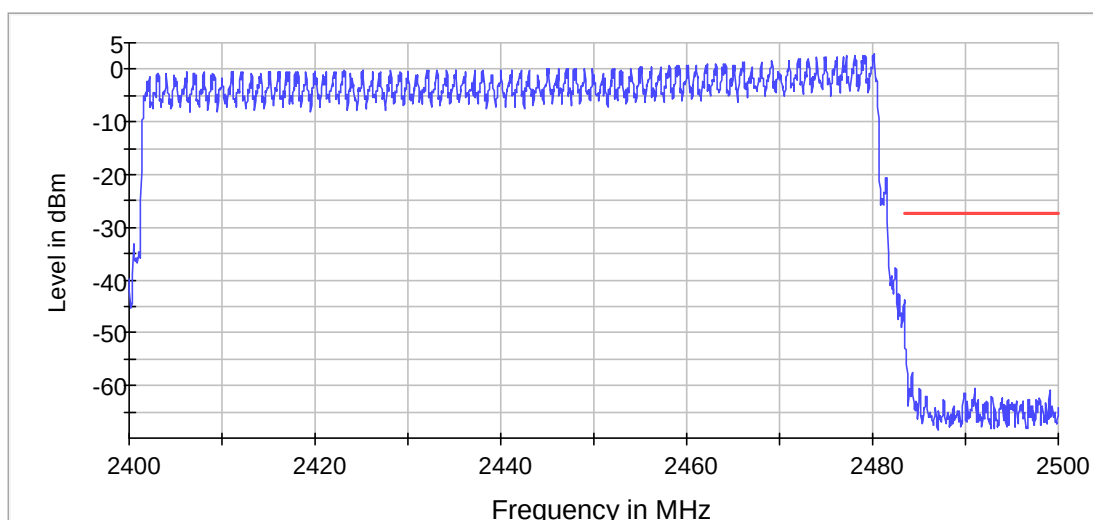
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| hopping             | PASS   |

#### Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 2480.175000     | 2.8         |

#### Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 2483.525000     | -53.0       | 25.8        | -27.2       | PASS   |
| 2483.575000     | -53.3       | 26.1        | -27.2       | PASS   |
| 2483.625000     | -54.6       | 27.4        | -27.2       | PASS   |
| 2483.675000     | -55.9       | 28.7        | -27.2       | PASS   |
| 2484.225000     | -57.4       | 30.1        | -27.2       | PASS   |
| 2484.275000     | -57.5       | 30.3        | -27.2       | PASS   |
| 2483.725000     | -57.7       | 30.5        | -27.2       | PASS   |
| 2484.175000     | -58.3       | 31.1        | -27.2       | PASS   |
| 2484.325000     | -59.2       | 32.0        | -27.2       | PASS   |
| 2483.775000     | -59.4       | 32.2        | -27.2       | PASS   |
| 2485.075000     | -60.5       | 33.3        | -27.2       | PASS   |
| 2483.975000     | -60.6       | 33.4        | -27.2       | PASS   |
| 2484.025000     | -60.6       | 33.4        | -27.2       | PASS   |
| 2491.025000     | -60.7       | 33.5        | -27.2       | PASS   |
| 2484.125000     | -60.7       | 33.5        | -27.2       | PASS   |



— Limit — Sum Level × Fail

FCC ID: 2AREB-AIRFLYDUO

IC: 24385-AIRFLYDUO



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AY0056077(3)

Date : Oct 17, 2019

### Measurement 1

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.40000 GHz      | 2.40000 GHz    |
| Stop Frequency        | 2.48350 GHz      | 2.48350 GHz    |
| Span                  | 83.500 MHz       | 83.500 MHz     |
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 1670             | ~ 1670         |
| SweepTime             | 1.670 ms         | AUTO           |
| Reference Level       | -10.000 dBm      | -10.000 dBm    |
| Attenuation           | 10.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 120 / max. 150   | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

### Measurement 2

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.48350 GHz      | 2.48350 GHz    |
| Stop Frequency        | 2.50000 GHz      | 2.50000 GHz    |
| Span                  | 16.500 MHz       | 16.500 MHz     |
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 330              | ~ 330          |
| SweepTime             | 37.969 $\mu$ s   | AUTO           |
| Reference Level       | -10.000 dBm      | -10.000 dBm    |
| Attenuation           | 10.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 4 / max. 150     | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AY0056077(3)

Date : Oct 17, 2019

### Band Edge low (2402 MHz; GFSK; DH5)

#### Result

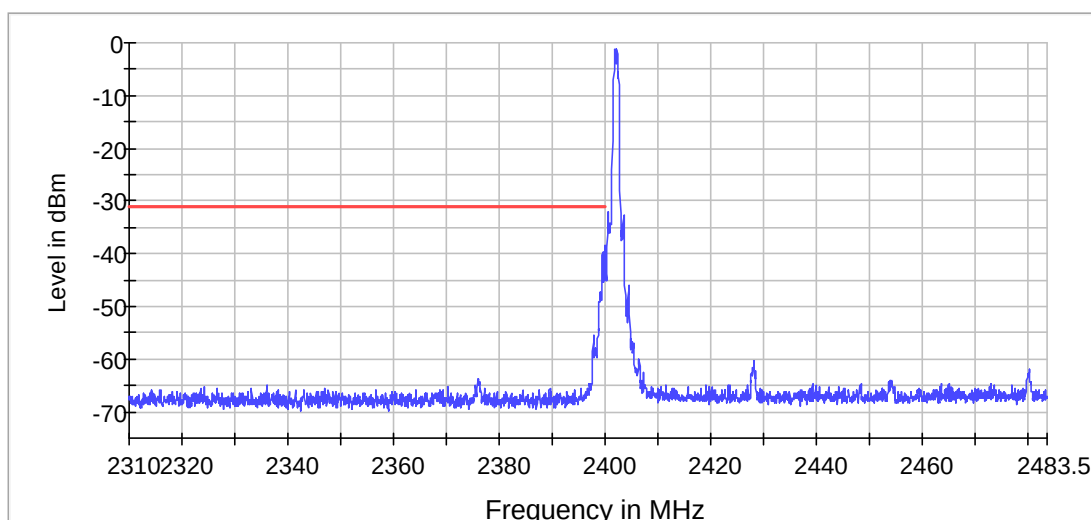
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2402.000000         | PASS   |

#### Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 2401.825000     | -1.2        |

#### Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 2399.975000     | -38.4       | 7.2         | -31.2       | PASS   |
| 2399.525000     | -39.7       | 8.5         | -31.2       | PASS   |
| 2399.475000     | -40.1       | 8.9         | -31.2       | PASS   |
| 2399.575000     | -40.4       | 9.2         | -31.2       | PASS   |
| 2399.925000     | -42.5       | 11.3        | -31.2       | PASS   |
| 2399.875000     | -44.2       | 13.0        | -31.2       | PASS   |
| 2399.625000     | -44.8       | 13.6        | -31.2       | PASS   |
| 2399.775000     | -44.9       | 13.7        | -31.2       | PASS   |
| 2399.675000     | -45.1       | 13.9        | -31.2       | PASS   |
| 2399.825000     | -45.2       | 14.0        | -31.2       | PASS   |
| 2399.725000     | -45.5       | 14.3        | -31.2       | PASS   |
| 2399.425000     | -46.4       | 15.2        | -31.2       | PASS   |
| 2399.375000     | -46.6       | 15.4        | -31.2       | PASS   |
| 2399.325000     | -46.7       | 15.5        | -31.2       | PASS   |
| 2399.275000     | -47.4       | 16.2        | -31.2       | PASS   |



FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AY0056077(3)

Date : Oct 17, 2019

### Measurement 1

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.31000 GHz      | 2.31000 GHz    |
| Stop Frequency        | 2.40000 GHz      | 2.40000 GHz    |
| Span                  | 90.000 MHz       | 90.000 MHz     |
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 1800             | ~ 1800         |
| SweepTime             | 1.800 ms         | AUTO           |
| Reference Level       | -10.000 dBm      | -10.000 dBm    |
| Attenuation           | 10.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 4 / max. 150     | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

### Measurement 2

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.40000 GHz      | 2.40000 GHz    |
| Stop Frequency        | 2.48350 GHz      | 2.48350 GHz    |
| Span                  | 83.500 MHz       | 83.500 MHz     |
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 1670             | ~ 1670         |
| SweepTime             | 1.670 ms         | AUTO           |
| Reference Level       | -10.000 dBm      | -10.000 dBm    |
| Attenuation           | 10.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 10 / max. 150    | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AY0056077(3)

Date : Oct 17, 2019

### Band Edge high (2480 MHz; GFSK; DH5)

#### Result

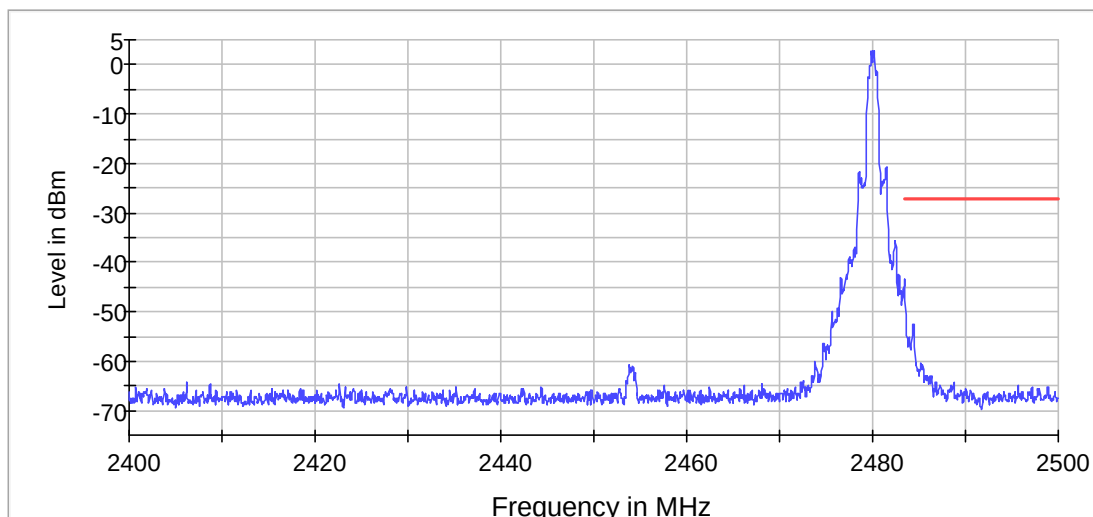
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2480.000000         | PASS   |

#### Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 2480.175000     | 2.8         |

#### Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 2483.525000     | -47.6       | 20.4        | -27.2       | PASS   |
| 2483.575000     | -50.7       | 23.5        | -27.2       | PASS   |
| 2484.425000     | -52.6       | 25.4        | -27.2       | PASS   |
| 2484.375000     | -52.7       | 25.5        | -27.2       | PASS   |
| 2484.325000     | -52.9       | 25.7        | -27.2       | PASS   |
| 2484.275000     | -53.5       | 26.3        | -27.2       | PASS   |
| 2484.475000     | -54.0       | 26.8        | -27.2       | PASS   |
| 2483.625000     | -54.1       | 26.9        | -27.2       | PASS   |
| 2483.675000     | -55.0       | 27.8        | -27.2       | PASS   |
| 2484.225000     | -55.0       | 27.8        | -27.2       | PASS   |
| 2483.925000     | -55.1       | 27.9        | -27.2       | PASS   |
| 2483.975000     | -55.1       | 27.9        | -27.2       | PASS   |
| 2483.825000     | -55.5       | 28.3        | -27.2       | PASS   |
| 2483.875000     | -55.5       | 28.3        | -27.2       | PASS   |
| 2483.725000     | -55.6       | 28.4        | -27.2       | PASS   |



— Limit — Sum Level × Fail

FCC ID: 2AREB-AIRFLYDUO

IC: 24385-AIRFLYDUO



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AY0056077(3)

Date : Oct 17, 2019

### Measurement 1

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.40000 GHz      | 2.40000 GHz    |
| Stop Frequency        | 2.48350 GHz      | 2.48350 GHz    |
| Span                  | 83.500 MHz       | 83.500 MHz     |
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 1670             | ~ 1670         |
| SweepTime             | 1.670 ms         | AUTO           |
| Reference Level       | -10.000 dBm      | -10.000 dBm    |
| Attenuation           | 10.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 6 / max. 150     | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.20 dB          | 0.50 dB        |

### Measurement 2

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.48350 GHz      | 2.48350 GHz    |
| Stop Frequency        | 2.50000 GHz      | 2.50000 GHz    |
| Span                  | 16.500 MHz       | 16.500 MHz     |
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 330              | ~ 330          |
| SweepTime             | 37.969 $\mu$ s   | AUTO           |
| Reference Level       | -10.000 dBm      | -10.000 dBm    |
| Attenuation           | 10.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 4 / max. 150     | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AY0056077(3)

Date : Oct 17, 2019

### Tx Spurious Emission (2402 MHz; GFSK;DH5)

#### Result

#### Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 2402.000000     | -0.7        |

#### Final measurements

| Frequency (MHz) | Level Pre Measurement (dBm) | level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|-----------------------------|-------------|-------------|-------------|--------|
| ---             | ---                         | ---         | ---         | ---         | ---    |

#### Pre Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 2399.225000     | -44.8       | 14.1        | -30.7       |
| 2399.175000     | -45.1       | 14.4        | -30.7       |
| 2399.125000     | -45.9       | 15.2        | -30.7       |
| 2399.275000     | -46.7       | 16.0        | -30.7       |
| 2399.425000     | -47.3       | 16.6        | -30.7       |
| 2399.375000     | -47.4       | 16.7        | -30.7       |
| 2399.325000     | -47.5       | 16.8        | -30.7       |
| 2399.525000     | -47.7       | 17.0        | -30.7       |
| 2399.475000     | -48.2       | 17.5        | -30.7       |
| 2399.975000     | -48.6       | 17.9        | -30.7       |
| 2399.575000     | -48.9       | 18.2        | -30.7       |
| 2399.075000     | -49.0       | 18.3        | -30.7       |
| 2399.625000     | -49.6       | 18.9        | -30.7       |
| 2399.925000     | -50.4       | 19.8        | -30.7       |
| 2399.675000     | -51.4       | 20.7        | -30.7       |

#### Measurement Settings

| Start Frequency (MHz) | Stop Frequency (MHz) | Pre Measurement | Final Measurement |
|-----------------------|----------------------|-----------------|-------------------|
| 30.000000             | 1500.000000          | 1               | 1                 |
| 1500.000000           | 2400.000000          | 1               | 1                 |
| 2400.000000           | 2483.500000          | 1               | 1                 |
| 2483.500000           | 3983.500000          | 1               | 1                 |
| 3983.500000           | 5483.500000          | 1               | 1                 |
| 5483.500000           | 6983.500000          | 1               | 1                 |
| 6983.500000           | 8483.500000          | 1               | 1                 |
| 8483.500000           | 9983.500000          | 1               | 1                 |
| 9983.500000           | 11483.500000         | 1               | 1                 |
| 11483.500000          | 12983.500000         | 1               | 1                 |
| 12983.500000          | 14483.500000         | 1               | 1                 |
| 14483.500000          | 15983.500000         | 1               | 1                 |
| 15983.500000          | 17483.500000         | 1               | 1                 |
| 17483.500000          | 18983.500000         | 1               | 1                 |
| 18983.500000          | 20483.500000         | 1               | 1                 |
| 20483.500000          | 21983.500000         | 1               | 1                 |
| 21983.500000          | 23483.500000         | 1               | 1                 |
| 23483.500000          | 24983.500000         | 1               | 1                 |
| 24983.500000          | 26000.000000         | 1               | 1                 |

FCC ID: 2AREB-AIRFLYDUO

IC: 24385-AIRFLYDUO



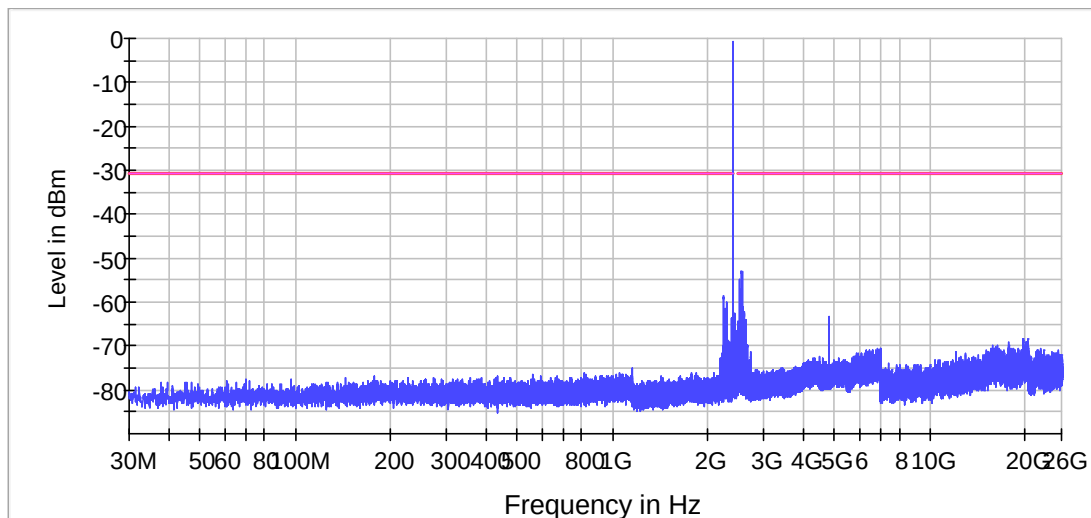
# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AY0056077(3)

Date : Oct 17, 2019



— Limit — Sum Level — Threshold × Critical × Final Critical

### Pre Measurement 1

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 29400            | ~ 29400        |
| SweepTime             | 29.400 ms        | AUTO           |
| Reference Level       | -30.000 dBm      | -30.000 dBm    |
| Attenuation           | 0.000 dB         | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 30               | 30             |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 1.00 dB          | 1.00 dB        |
| Run                   | 2 / max. 40      | max. 40        |
| Stable                | 1 / 1            | 1              |
| Max Stable Difference | 0.00 dB          | 1.00 dB        |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AY0056077(3)

Date : Oct 17, 2019

### Tx Spurious Emission (2441 MHz; GFSK;DH5) Result Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 2441.000000     | 0.8         |

### Final measurements

| Frequency (MHz) | Level Pre Measurement (dBm) | level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|-----------------------------|-------------|-------------|-------------|--------|
| ---             | ---                         | ---         | ---         | ---         | ---    |

### Pre Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 2597.025000     | -53.2       | 23.9        | -29.2       |
| 2597.075000     | -53.8       | 24.6        | -29.2       |
| 2596.975000     | -53.8       | 24.6        | -29.2       |
| 2596.875000     | -54.2       | 25.0        | -29.2       |
| 2596.825000     | -54.4       | 25.2        | -29.2       |
| 2596.925000     | -54.5       | 25.3        | -29.2       |
| 2545.175000     | -54.5       | 25.3        | -29.2       |
| 2597.175000     | -54.7       | 25.5        | -29.2       |
| 2597.125000     | -54.8       | 25.5        | -29.2       |
| 2544.975000     | -55.3       | 26.1        | -29.2       |
| 2544.925000     | -55.4       | 26.2        | -29.2       |
| 2545.025000     | -55.5       | 26.3        | -29.2       |
| 2545.225000     | -55.6       | 26.4        | -29.2       |
| 2545.075000     | -55.6       | 26.4        | -29.2       |
| 2545.125000     | -55.8       | 26.6        | -29.2       |

### Measurement Settings

| Start Frequency (MHz) | Stop Frequency (MHz) | Pre Measurement | Final Measurement |
|-----------------------|----------------------|-----------------|-------------------|
| 30.000000             | 1500.000000          | 1               | 1                 |
| 1500.000000           | 2400.000000          | 1               | 1                 |
| 2400.000000           | 2483.500000          | 1               | 1                 |
| 2483.500000           | 3983.500000          | 1               | 1                 |
| 3983.500000           | 5483.500000          | 1               | 1                 |
| 5483.500000           | 6983.500000          | 1               | 1                 |
| 6983.500000           | 8483.500000          | 1               | 1                 |
| 8483.500000           | 9983.500000          | 1               | 1                 |
| 9983.500000           | 11483.500000         | 1               | 1                 |
| 11483.500000          | 12983.500000         | 1               | 1                 |
| 12983.500000          | 14483.500000         | 1               | 1                 |
| 14483.500000          | 15983.500000         | 1               | 1                 |
| 15983.500000          | 17483.500000         | 1               | 1                 |
| 17483.500000          | 18983.500000         | 1               | 1                 |
| 18983.500000          | 20483.500000         | 1               | 1                 |
| 20483.500000          | 21983.500000         | 1               | 1                 |
| 21983.500000          | 23483.500000         | 1               | 1                 |
| 23483.500000          | 24983.500000         | 1               | 1                 |
| 24983.500000          | 26000.000000         | 1               | 1                 |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



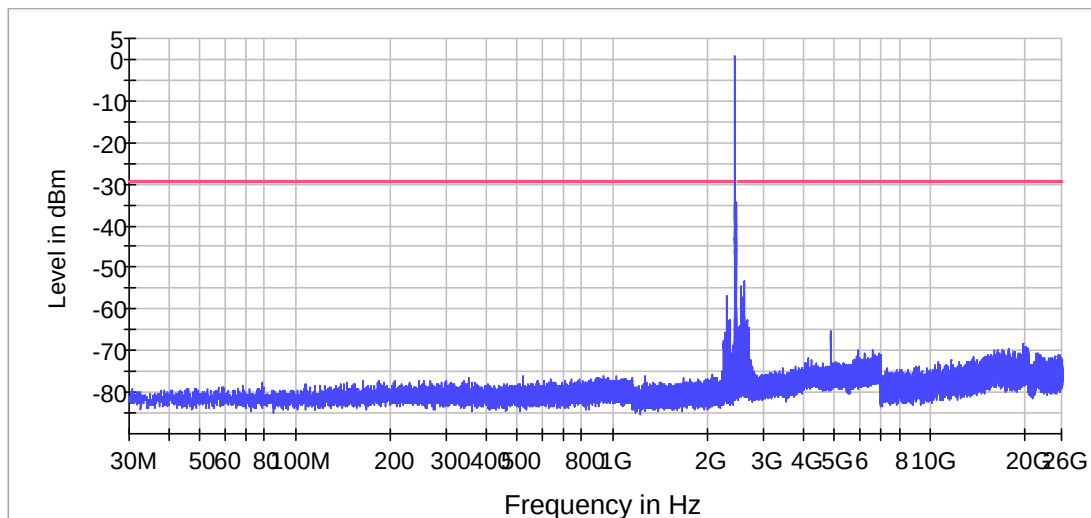
# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AY0056077(3)

Date : Oct 17, 2019



— Limit — Sum Level — Threshold × Critical × Final Critical

### Pre Measurement 1

| Setting               | Instrument Value | Target Value       |
|-----------------------|------------------|--------------------|
| RBW                   | 100.000 kHz      | $\leq 100.000$ kHz |
| VBW                   | 300.000 kHz      | $\geq 300.000$ kHz |
| SweepPoints           | 29400            | ~ 29400            |
| SweepTime             | 29.400 ms        | AUTO               |
| Reference Level       | -30.000 dBm      | -30.000 dBm        |
| Attenuation           | 0.000 dB         | AUTO               |
| Detector              | MaxPeak          | MaxPeak            |
| SweepCount            | 30               | 30                 |
| Filter                | 3 dB             | 3 dB               |
| Trace Mode            | Max Hold         | Max Hold           |
| SweepType             | Sweep            | AUTO               |
| Preamp                | off              | off                |
| Stablemode            | Trace            | Trace              |
| Stablevalue           | 1.00 dB          | 1.00 dB            |
| Run                   | 2 / max. 40      | max. 40            |
| Stable                | 1 / 1            | 1                  |
| Max Stable Difference | 0.00 dB          | 1.00 dB            |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AY0056077(3)

Date : Oct 17, 2019

### Tx Spurious Emission (2480 MHz; GFSK;DH5) Result Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 2480.000000     | 2.8         |

### Final measurements

| Frequency (MHz) | Level Pre Measurement (dBm) | level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|-----------------------------|-------------|-------------|-------------|--------|
| ---             | ---                         | ---         | ---         | ---         | ---    |

### Pre Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 2635.975000     | -53.9       | 26.7        | -27.2       |
| 2636.025000     | -54.0       | 26.9        | -27.2       |
| 2483.525000     | -54.4       | 27.3        | -27.2       |
| 2636.075000     | -54.5       | 27.3        | -27.2       |
| 2636.175000     | -54.9       | 27.8        | -27.2       |
| 2635.925000     | -55.0       | 27.8        | -27.2       |
| 2635.875000     | -55.0       | 27.8        | -27.2       |
| 2636.125000     | -55.0       | 27.9        | -27.2       |
| 2635.825000     | -55.2       | 28.0        | -27.2       |
| 2583.875000     | -55.8       | 28.7        | -27.2       |
| 2584.025000     | -55.9       | 28.8        | -27.2       |
| 2583.975000     | -56.0       | 28.8        | -27.2       |
| 2484.025000     | -56.1       | 28.9        | -27.2       |
| 2583.925000     | -56.2       | 29.0        | -27.2       |
| 2584.075000     | -56.2       | 29.0        | -27.2       |

### Measurement Settings

| Start Frequency (MHz) | Stop Frequency (MHz) | Pre Measurement | Final Measurement |
|-----------------------|----------------------|-----------------|-------------------|
| 30.000000             | 1500.000000          | 1               | 1                 |
| 1500.000000           | 2400.000000          | 1               | 1                 |
| 2400.000000           | 2483.500000          | 1               | 1                 |
| 2483.500000           | 3983.500000          | 1               | 1                 |
| 3983.500000           | 5483.500000          | 1               | 1                 |
| 5483.500000           | 6983.500000          | 1               | 1                 |
| 6983.500000           | 8483.500000          | 1               | 1                 |
| 8483.500000           | 9983.500000          | 1               | 1                 |
| 9983.500000           | 11483.500000         | 1               | 1                 |
| 11483.500000          | 12983.500000         | 1               | 1                 |
| 12983.500000          | 14483.500000         | 1               | 1                 |
| 14483.500000          | 15983.500000         | 1               | 1                 |
| 15983.500000          | 17483.500000         | 1               | 1                 |
| 17483.500000          | 18983.500000         | 1               | 1                 |
| 18983.500000          | 20483.500000         | 1               | 1                 |
| 20483.500000          | 21983.500000         | 1               | 1                 |
| 21983.500000          | 23483.500000         | 1               | 1                 |
| 23483.500000          | 24983.500000         | 1               | 1                 |
| 24983.500000          | 26000.000000         | 1               | 1                 |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



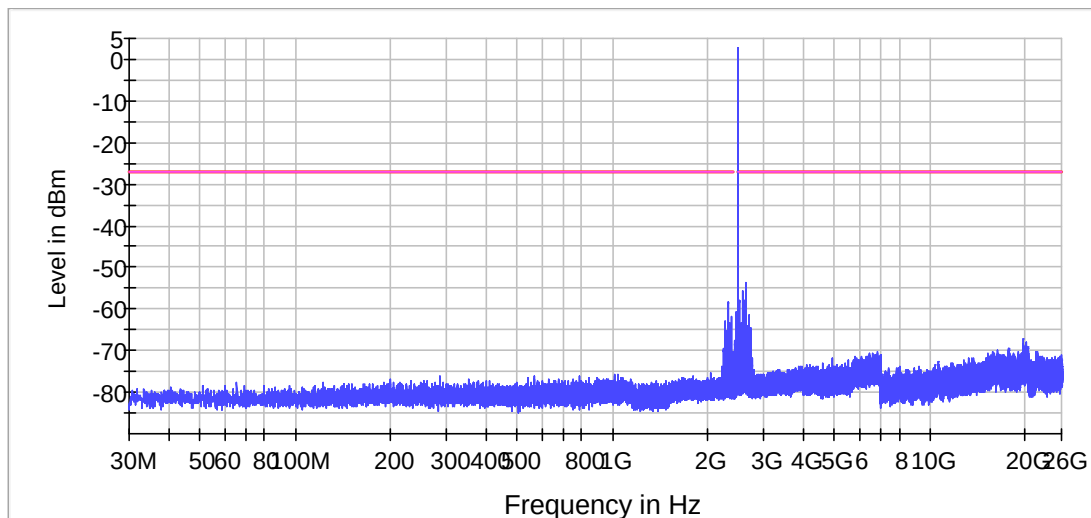
# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AY0056077(3)

Date : Oct 17, 2019



— Limit — Sum Level — Threshold × Critical × Final Critical

### Pre Measurement 1

| Setting               | Instrument Value | Target Value       |
|-----------------------|------------------|--------------------|
| RBW                   | 100.000 kHz      | $\leq 100.000$ kHz |
| VBW                   | 300.000 kHz      | $\geq 300.000$ kHz |
| SweepPoints           | 29400            | ~ 29400            |
| Sweptime              | 29.400 ms        | AUTO               |
| Reference Level       | -30.000 dBm      | -30.000 dBm        |
| Attenuation           | 0.000 dB         | AUTO               |
| Detector              | MaxPeak          | MaxPeak            |
| SweepCount            | 30               | 30                 |
| Filter                | 3 dB             | 3 dB               |
| Trace Mode            | Max Hold         | Max Hold           |
| SweepType             | Sweep            | AUTO               |
| Preamp                | off              | off                |
| Stablemode            | Trace            | Trace              |
| Stablevalue           | 1.00 dB          | 1.00 dB            |
| Run                   | 2 / max. 40      | max. 40            |
| Stable                | 1 / 1            | 1                  |
| Max Stable Difference | 0.00 dB          | 1.00 dB            |

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AY0056077(3)

Date : Oct 17, 2019

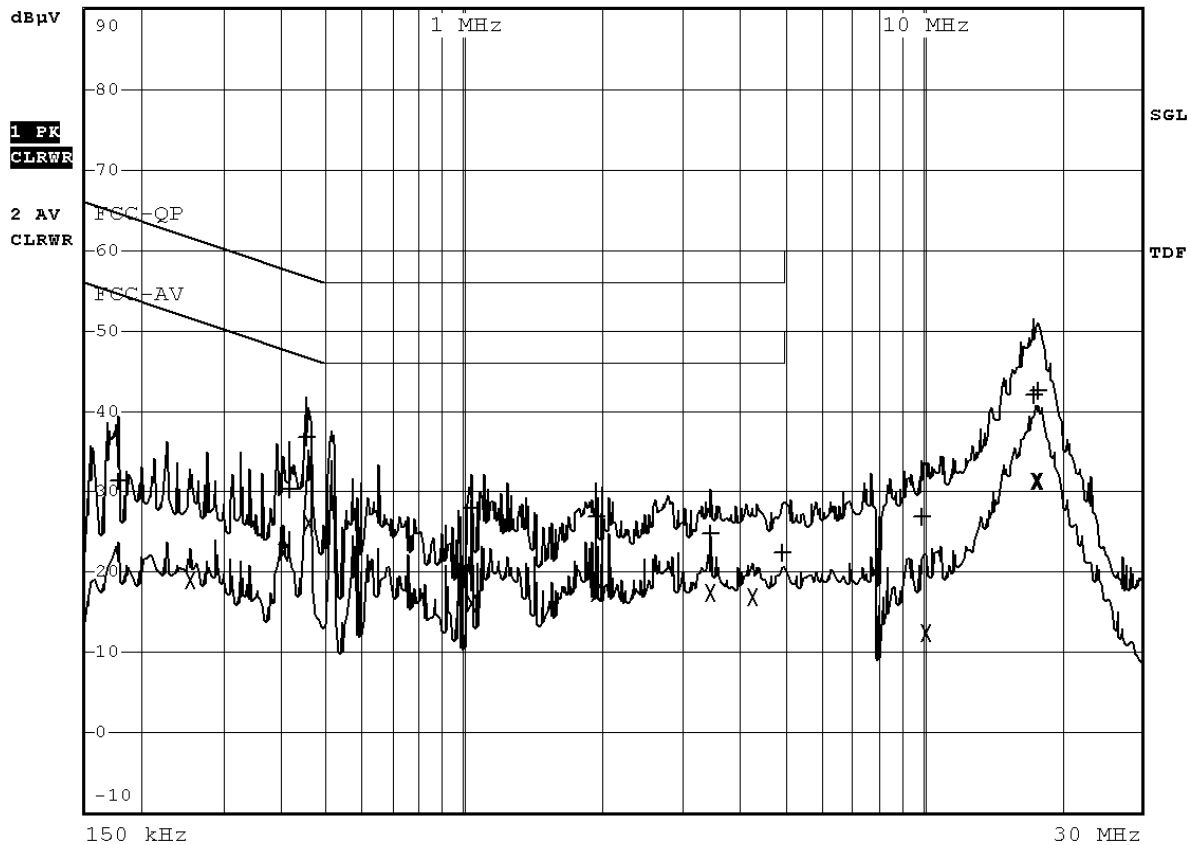
Conducted Emission (Graph):



RBW 9 kHz

MT 1 s

Att 10 dB AUTO PREAMP OFF



FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AY0056077(3)

Date : Oct 17, 2019

Conducted Emission (Data):

| EDIT PEAK LIST (Final Measurement Results) |             |            |        |                |
|--------------------------------------------|-------------|------------|--------|----------------|
| Trace1:                                    | FCC-QP      |            |        |                |
| Trace2:                                    | FCC-AV      |            |        |                |
| Trace3:                                    | ---         |            |        |                |
| TRACE                                      | FREQUENCY   | LEVEL dBμV |        | DELTA LIMIT dB |
| 1 Quasi Peak                               | 177 kHz     | 31.44      | N gnd  | -33.17         |
| 2 Average                                  | 253.5 kHz   | 18.95      | L1 gnd | -32.68         |
| 2 Average                                  | 406.5 kHz   | 22.49      | L1 gnd | -25.22         |
| 1 Quasi Peak                               | 420 kHz     | 30.34      | L1 gnd | -27.10         |
| 1 Quasi Peak                               | 456 kHz     | 36.92      | L1 gnd | -19.84         |
| 2 Average                                  | 460.5 kHz   | 26.06      | L1 gnd | -20.61         |
| 1 Quasi Peak                               | 1.0355 MHz  | 27.80      | L1 gnd | -28.19         |
| 2 Average                                  | 1.0355 MHz  | 16.19      | L1 gnd | -29.80         |
| 1 Quasi Peak                               | 1.9535 MHz  | 26.90      | L1 gnd | -29.09         |
| 2 Average                                  | 1.9535 MHz  | 17.53      | L1 gnd | -28.46         |
| 1 Quasi Peak                               | 3.452 MHz   | 24.68      | L1 gnd | -31.31         |
| 2 Average                                  | 3.452 MHz   | 17.44      | L1 gnd | -28.55         |
| 2 Average                                  | 4.262 MHz   | 17.02      | L1 gnd | -28.97         |
| 1 Quasi Peak                               | 4.9415 MHz  | 22.49      | L1 gnd | -33.50         |
| 1 Quasi Peak                               | 9.995 MHz   | 26.98      | L1 gnd | -33.01         |
| 2 Average                                  | 10.166 MHz  | 12.47      | N gnd  | -37.53         |
| 1 Quasi Peak                               | 17.4335 MHz | 42.17      | L1 gnd | -17.82         |
| 2 Average                                  | 17.564 MHz  | 31.37      | N gnd  | -18.62         |
| 2 Average                                  | 17.8475 MHz | 31.46      | N gnd  | -18.53         |
| 1 Quasi Peak                               | 17.888 MHz  | 42.61      | L1 gnd | -17.38         |

\*\*\*\*\* End of Report \*\*\*\*\*

FCC ID: 2AREB-AIRFLYDUO  
IC: 24385-AIRFLYDUO