



# RADIO TEST REPORT FCC 47 CFR PART 15 SUBPART C INDUSTRY CANADA RSS-247

Test Standard FCC Part 15.247

IC RSS-247 issue 2 and IC RSS-GEN issue 5

Product name Tablet

Brand Name ICON/iFit

Model No. MP10-ARGON2X-C

Konil Tson

Test Result Pass

Statements of Determination of compliance is based on the results of the

compliance measurement, not taking into account

measurement instrumentation uncertainty.

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc.( Wugu Laboratory)

Approved by:

Conformity

Kevin Tsai

**Deputy Manager** 

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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# **Revision History**

| R | lev. | Issue<br>Date     | Revisions     | Effect Page | Revised By   |
|---|------|-------------------|---------------|-------------|--------------|
| ( | 00   | September 8, 2021 | Initial Issue | ALL         | Allison Chen |



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# 1. GENERAL INFORMATION

# 1.1 EUT INFORMATION

| FCC Applicant     | Compal Electronics Inc<br>No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei city, 11492<br>Taiwan |  |  |  |
|-------------------|--|--|--|--|
| IC Applicant      | COMPAL ELECTRONICS INC. No. 581 & 581-1, Ruiguang Rd,, Neihu District Taipei R.O.C. 114 Taiwan       |  |  |  |
| Manufacturer      | Compal Electronics Inc<br>No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei city, 11492<br>Taiwan |  |  |  |
| Equipment         | Tablet   |  |  |  |
| Model No.         | MP10-ARGON2X-C   |  |  |  |
| Model Discrepancy | N/A  |  |  |  |
| Trade Name        | ICON/iFit  |  |  |  |
| Received Date     | July 30, 2021  |  |  |  |
| Date of Test      | September 1, 2021  |  |  |  |
| Power Operation   | EUT Power from Power Supply. (DC12V)   |  |  |  |
| HW Version        | LA-L521P   |  |  |  |
| SW Version        | Android 9  |  |  |  |
| EUT Serial #      | 425339-PP21D305212   |  |  |  |
|                   |  |  |  |  |

- 1. For more details, refer to the User's manual of the EUT.
- 2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.



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# **1.2 EUT CHANNEL INFORMATION**

| Frequency Range   | 802.11b/g/n HT 20: 2412MHz ~ 2462MHz<br>802.11n HT 40: 2422MHz ~ 2452MHz   |
|-------------------|--|
| Modulation Type   | 1. IEEE 802.11b mode: CCK 2. IEEE 802.11g mode: OFDM 3. IEEE 802.11n HT 20 MHz mode : OFDM 4. IEEE 802.11n HT 40 MHz mode : OFDM                           |
| Number of channel | 1. IEEE 802.11b mode: 11 Channels 2. IEEE 802.11g mode: 11 Channels 3. IEEE 802.11n HT 20 MHz mode: 11 Channels 4. IEEE 802.11n HT 40 MHz mode: 7 Channels |

#### Remark:

Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 and RSS-GFN Table 1 for test channels

| Number of frequencies to be tested       |  |  |  |  |
|--|--|--|--|--|
| Frequency range in which device operates | Location in frequency range of operation |  |  |  |
| 1 MHz or less                            | 1  | Middle                                       |  |  |
| 1 MHz to 10 MHz                          | 2  | 1 near top and 1 near bottom                 |  |  |
| More than 10 MHz                         | 3  | 1 near top, 1 near middle, and 1 near bottom |  |  |

## 1.3 ANTENNA INFORMATION

| Antenna Type      | □ PCB □ Dipole □ Coils |
|-------------------|------------------------|
| Antenna Gain      | 2.47 dBi               |
| Antenna Connector | IPEX                   |

<sup>1.</sup> The antenna(s) of the EUT are permanently attached and there are no provisions for connection to an external antenna. So the EUT complies with the requirements of §15.203.



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# 1.4 MEASUREMENT UNCERTAINTY

| PARAMETER  | UNCERTAINTY |
|--|-------------|
| AC Powerline Conducted Emission                  | +/- 1.2575  |
| Emission bandwidth, 20dB bandwidth               | +/- 0.0014  |
| RF output power, conducted                       | +/- 1.14    |
| Power density, conducted                         | +/- 1.40    |
| 3M Semi Anechoic Chamber / 30M~1G (Horizontally) | +/- 3.91    |
| 3M Semi Anechoic Chamber / 30M~1G (Vertically)   | +/- 4.57    |
| 3M Semi Anechoic Chamber / 1G~6G                 | +/- 5.20    |
| 3M Semi Anechoic Chamber / 6G~18G                | +/- 5.18    |
| 3M Semi Anechoic Chamber / 18G~40G               | +/- 3.68    |

<sup>1.</sup> This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

<sup>2.</sup> ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.



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## 1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. (R.O.C.)

| Test site          | Test Engineer | Remark |   |
|--------------------|---------------|--------|---|
| AC Conduction Room | N/A           |        | pplicable, because EUT doesn't nect to AC Main Source direct. |
| Radiation          | Ray Li        |        | -   |
| RF Conducted       | N/A           |        | Not applicable.   |

**Remark:** The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

# 1.6 INSTRUMENT CALIBRATION

| 3M 966 Chamber Test Site               |                   |                       |                 |            |            |
|--|-------------------|-----------------------|-----------------|------------|------------|
| Equipment                              | Manufacturer      | Model                 | S/N             | Cal Date   | Cal Due    |
| Band Reject Filters                    | MICRO<br>TRONICS  | BRM 50702             | 120             | 02/08/2021 | 02/07/2022 |
| Bilog Antenna                          | Sunol<br>Sciences | JB3                   | A030105         | 07/19/2021 | 07/18/2022 |
| Coaxial Cable                          | HUBER<br>SUHNER   | SUCOFLEX 104PEA       | 20995           | 02/24/2021 | 02/23/2022 |
| Coaxial Cable                          | EMCI              | EMC105                | 190914+327109/4 | 09/19/2020 | 09/18/2021 |
| Digital<br>Thermo-Hygro<br>Meter       | WISEWIND          | 1206                  | D07             | 01/06/2021 | 01/05/2022 |
| double Ridged<br>Guide Horn<br>Antenna | ETC               | MCTD 1209             | DRH13M02003     | 09/30/2020 | 09/29/2021 |
| Horn Antenna                           | ETS<br>LINDGREN   | 3116                  | 00026370        | 12/11/2020 | 12/10/2021 |
| K Type Cable                           | Huber+Suhner      | SUCOFLEX 102          | 29406/2         | 12/09/2020 | 12/08/2021 |
| K Type Cable                           | Huber+Suhner      | SUCOFLEX 102          | 22470/2         | 12/09/2020 | 12/08/2021 |
| Pre-Amplifier                          | EMEC              | EM330                 | 060609          | 02/24/2021 | 02/23/2022 |
| Pre-Amplifier                          | HP                | 8449B                 | 3008A00965      | 12/25/2020 | 12/24/2021 |
| Pre-Amplifier                          | MITEQ             | AMF-6F-18004000-37-8P | 985646          | 09/02/2020 | 09/01/2021 |
| Signal Analyzer                        | R&S               | FSV 40                | 101073          | 09/17/2020 | 09/16/2021 |
| Antenna Tower                          | ccs               | CC-A-1F               | N/A             | N.C.R      | N.C.R      |
| Controller                             | CCS               | CC-C-1F               | N/A             | N.C.R      | N.C.R      |
| Turn Table                             | CCS               | CC-T-1F               | N/A             | N.C.R      | N.C.R      |
| Software e3 6.11-20180419c             |                   |                       |                 |            |            |

Remark: Each piece of equipment is scheduled for calibration once a year.



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# 1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

| No. | Equipment | Brand | Model | Series No. | FCC ID |
|-----|-----------|-------|-------|------------|--------|
|     | N/A       |       |       |            |        |

|     | Support Equipment |              |              |            |        |  |
|-----|-------------------|--------------|--------------|------------|--------|--|
| No. | Equipment         | Brand        | Model        | Series No. | FCC ID |  |
| 1   | Adapter           | WEIHAI POWER | HAS060123-EA | N/A        | N/A    |  |

## 1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.247, RSS-247 Issue 2 and RSS-GEN Issue 5

.



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# 2. TEST SUMMARY

| FCC<br>Standard<br>Section | IC Standard<br>Section | Report<br>Section | Test Item                                | Result |
|----------------------------|------------------------|-------------------|--|--------|
| 15.203                     | RSS-GEN 6.8            | 1.3               | Antenna Requirement                      | Pass   |
| 15.247(d)                  | RSS-GEN 8.9, 8.10      | 4.1               | Radiation Spurious Emission (Below 1GHz) | Pass   |



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# 3. DESCRIPTION OF TEST MODES

#### 3.1 THE WORST MODE OF OPERATING CONDITION

| Operation mode           | IEEE 802.11b mode :1Mbps<br>IEEE 802.11g mode :6Mbps<br>IEEE 802.11n HT20 mode :MCS0<br>IEEE 802.11n HT40 mode :MCS0  |
|--------------------------|---|
| Test Channel Frequencies | IEEE 802.11b mode:  1. Lowest Channel: 2412MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462MHz IEEE 802.11g mode:  1. Lowest Channel: 2412MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2462MHz IEEE 802.11n HT20 mode:  1. Lowest Channel: 2412MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2437MHz 3. Highest Channel: 2462MHz IEEE 802.11n HT40 mode:  1. Lowest Channel: 2422MHz 2. Middle Channel: 2437MHz 3. Highest Channel: 2437MHz 3. Highest Channel: 2452MHz |
| Operation Transmitter    | IEEE 802.11b mode :1T1R IEEE 802.11g mode :1T1R IEEE 802.11n HT20 mode : 1T1R IEEE 802.11n HT40 mode : 1T1R   |

<sup>1.</sup> EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.



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# 3.2 THE WORST MODE OF MEASUREMENT

| Radiated Emission Measurement Below 1G |   |  |  |  |  |  |
|--|---|--|--|--|--|--|
| Test Condition                         | Test Condition Radiated Emission Below 1G           |  |  |  |  |  |
| <b>Power supply Mode</b>               | Power supply Mode Mode 1: EUT power by Power Supply |  |  |  |  |  |
| Worst Mode                             |   |  |  |  |  |  |

- 1. The worst mode was record in this test report.
- 2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(X-Plane) were recorded in this report



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#### 4. TEST RESULT

### 4.1 RADIATION SPURIOUS EMISSION

#### 4.1.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

IC according to RSS-247 section 5.5, RSS-Gen, Section 8.9 and 8.10

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

#### Below 30 MHz

| Frequency     | Field Strength<br>(microvolts/m) | Magnetic<br>H-Field<br>(microamperes/m) | Measurement Distance (metres) |  |  |
|---------------|----------------------------------|---|-------------------------------|--|--|
| 9-490 kHz     | 2,400/F (F in kHz)               | 2,400/F (F in kHz)                      | 300                           |  |  |
| 490-1,705 kHz | 24,000/F (F in kHz)              | 24,000/F (F in kHz)                     | 30                            |  |  |
| 1.705-30 MHz  | 30                               | N/A                                     | 30                            |  |  |

#### **Above 30 MHz**

| Frequency | Field Stre<br>microvolts/m at 3 metr |              |
|-----------|--------------------------------------|--------------|
| (MHz)     | Transmitters                         | Receivers    |
| 30-88     | 100 (3 nW)                           | 100 (3 nW)   |
| 88-216    | 150 (6.8 nW)                         | 150 (6.8 nW) |
| 216-960   | 200 (12 nW)                          | 200 (12 nW)  |
| Above 960 | 500 (75 nW)                          | 500 (75 nW)  |

#### Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.



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IC according to RSS-247 section 5.5, RSS-Gen, Section 8.9 and 8.10

# RSS-Gen Table 3 and Table 5 – General Field Strength Limits for Transmitters and Receivers at Frequencies Above 30 MHz (Note)

| Frequency | Field Strength<br>microvolts/m at 3 metres (watts, e.i.r.p.) |              |  |  |  |  |
|-----------|--|--------------|--|--|--|--|
| (MHz)     | Transmitters   | Receivers    |  |  |  |  |
| 30-88     | 100 (3 nW)   | 100 (3 nW)   |  |  |  |  |
| 88-216    | 150 (6.8 nW)   | 150 (6.8 nW) |  |  |  |  |
| 216-960   | 200 (12 nW)  | 200 (12 nW)  |  |  |  |  |
| Above 960 | 500 (75 nW)  | 500 (75 nW)  |  |  |  |  |

**Note:** Measurements for compliance with the limits in table 3 may be performed at distances other than 3 metres, in accordance with Section 6.6.

# RSS-Gen Table 6: General Field Strength Limits for Transmitters at Frequencies Below 30 MHz (Transmit)

| Frequency                 | Magnetic field strength<br>(H-Field) (μΑ/m) | Measurement Distance (m) |
|---------------------------|---|--------------------------|
| 9-490 kHz <sup>Note</sup> | 6.37/F (F in kHz)                           | 300                      |
| 490-1,705 kHz             | 63.7/F (F in kHz)                           | 30                       |
| 1.705-30 MHz              | 0.08  | 30                       |

**Note:** The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.



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#### 4.1.2 Test Procedure

Test method Refer as ANSI C63.10:2013

- 1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10, and the EUT set in a continuous mode.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.
- 3. Span shall wide enough to full capture the emission measured. The SA from 9KHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.
- 4. No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)

#### Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

- 5. The SA setting following:
  - (1) Below 1G: RBW = 100kHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
  - (2) Above 1G:
    - (2.1) For Peak measurement : RBW = 1MHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
    - (2.2) For Average measurement : RBW = 1MHz, VBW

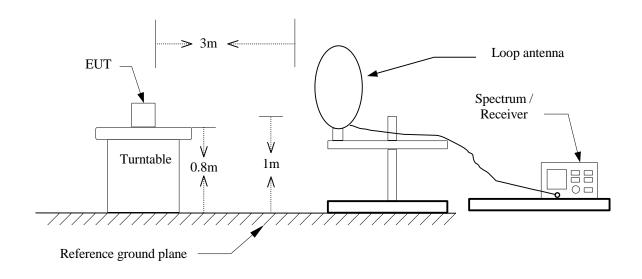
If Duty Cycle ≥ 98%, VBW=10Hz.

If Duty Cycle < 98%, VBW=1/T.

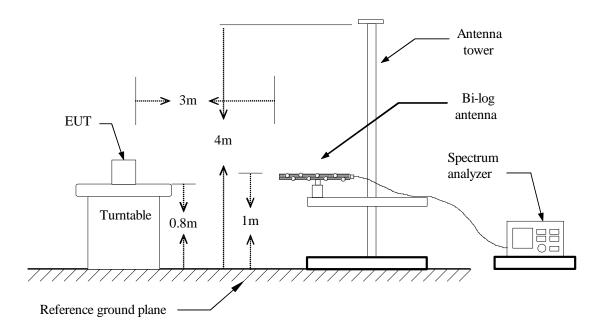


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# 4.1.3 Test Setup <u>9kHz ~ 30MHz</u>



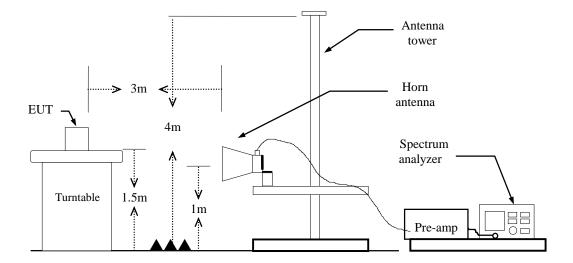
#### 30MHz ~ 1GHz





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# Above 1 GHz



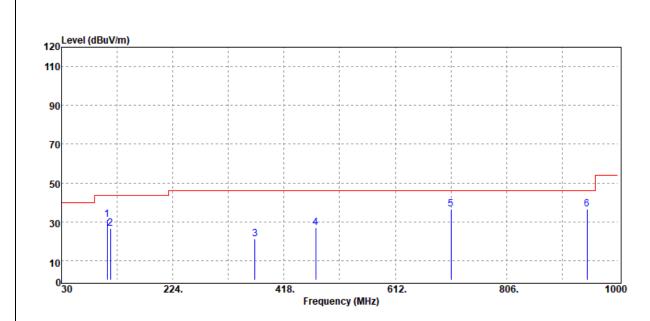


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### 4.1.4 Test Result

## **Below 1G Test Data**

| Test Mode | Mode 1     | Temp/Hum      | 23.4(°C)/ 60%RH   |  |  |
|-----------|------------|---------------|-------------------|--|--|
| Test Item | 30MHz-1GHz | Test Date     | September 1, 2021 |  |  |
| Polarize  | Vertical   | Test Engineer | Ray Li            |  |  |
| Detector  | Peak       |               |                   |  |  |



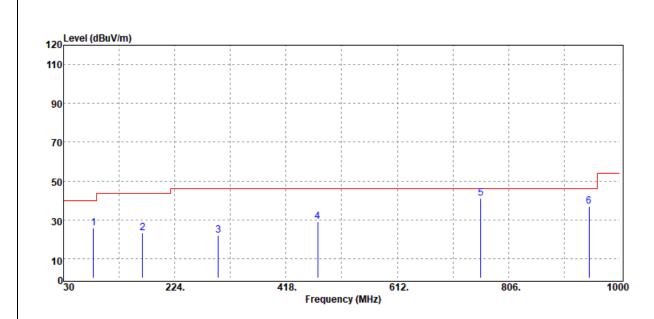
| Freq.  | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|--------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz    | PK/QP/AV         | dΒμV                      | dB     | dΒμV/m       | dΒμV/m       | dB     |
| 109.54 | Peak             | 41.48                     | -10.53 | 30.95        | 43.50        | -12.55 |
| 115.36 | Peak             | 36.28                     | -9.74  | 26.54        | 43.50        | -16.96 |
| 367.56 | Peak             | 28.25                     | -6.96  | 21.29        | 46.00        | -24.71 |
| 473.29 | Peak             | 30.41                     | -3.55  | 26.86        | 46.00        | -19.14 |
| 709.00 | Peak             | 36.23                     | 0.18   | 36.41        | 46.00        | -9.59  |
| 946.65 | Peak             | 33.05                     | 3.66   | 36.71        | 46.00        | -9.29  |

 $\textbf{Note:} \ \ \text{No emission found between lowest internal used/generated frequency to 30MHz(9KHz\sim30MHz)}$ 



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| Test Mode | Mode 1     | Temp/Hum      | 23.4(°C)/ 60%RH   |
|-----------|------------|---------------|-------------------|
| Test Item | 30MHz-1GHz | Test Date     | September 1, 2021 |
| Polarize  | Horizontal | Test Engineer | Ray Li            |
| Detector  | Peak       |               |                   |



| Freq.  | Detector<br>Mode | Spectrum<br>Reading Level | Factor | Actual<br>FS | Limit<br>@3m | Margin |
|--------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz    | PK/QP/AV         | dΒμV                      | dB     | dΒμV/m       | dΒμV/m       | dB     |
| 82.38  | Peak             | 41.40                     | -15.76 | 25.64        | 40.00        | -14.36 |
| 167.74 | Peak             | 34.05                     | -10.99 | 23.06        | 43.50        | -20.44 |
| 299.66 | Peak             | 30.69                     | -8.80  | 21.89        | 46.00        | -24.11 |
| 473.29 | Peak             | 32.72                     | -3.55  | 29.17        | 46.00        | -16.83 |
| 757.50 | Peak             | 40.36                     | 0.90   | 41.26        | 46.00        | -4.74  |
| 946.65 | Peak             | 33.49                     | 3.66   | 37.15        | 46.00        | -8.85  |

**Note:** No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)



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### **4.2 TEST DATA RE-USE SUMMARY**

#### **Introduction Section:**

The application re-uses data collected on a similar device. The subject device of this application (Model: MP10-ARGON2X-C, FCC ID: GKR436386, IC: 2533B-436386) is electrically identical to the reference device (Model: MP10-ARGON2-C, FCC ID: GKR425339, IC: 2533B-425339) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

## **Differences Brief Description:**

The WLAN and Bluetooth hardware of this device are identical to the implementation in

FCC ID: GKR436386

IC: 2533B-436386

The Product Equality Declaration document includes detailed information about the changes between the devices. The data from that application has been verified through appropriate spot checks to demonstrate compliance for this device as shown in the summary table below.



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# **Spot Check Verification Result Summary**

| Equipment Class | Reference FCC ID / | Folder Test    | Report Title/ |
|-----------------|--------------------|----------------|---------------|
|                 | IC No.             |                | Section       |
| DTS-WLAN        | GKR425339 /        | T210413W02-RP3 | All Section   |
|                 | 2533B-425339       |                | (Except for   |
|                 |                    |                | Radiation     |
|                 |                    |                | Spurious      |
|                 |                    |                | Emission      |
|                 |                    |                | below 1GHz)   |

## Summery of the spot check for Unlicensed bands and Licensed bands

In order to confirm hardware similarity of the subject device with the reference device, we used same setting power to radiated emission measurement were performed on the subject device for the Band edge and Harmonic, the test result were similar with FCC ID: GKR425339 / IC: 2533B-425339.

#### **WLAN**

| Report | Test Item Mode / |            |                    |       | GKR425339 /<br>2533B-425339 |              | GKR436386 /<br>2533B-436386 |         |              | Gap (dB) |         |
|--------|------------------|------------|--------------------|-------|-----------------------------|--------------|-----------------------------|---------|--------------|----------|---------|
| Report | rest item        | CH.        | Frequency<br>(MHz) | Peak  | Average                     | Ant.<br>Pol. | Peak                        | Average | Ant.<br>Pol. | Peak     | Average |
| DTS    | Band edge        | G /<br>Low | 2390               | 54.32 | 42.77                       | Н            | 54.29                       | 41.49   | Н            | 0.03     | 1.28    |
| (WLAN) | Emission         | G /<br>Mid | 4874               | 41.06 | -                           | Н            | 39.6                        | -       | Н            | 1.46     | -       |
|        | 1G~26.5G         |            | 7311               | 45.47 | -                           | V            | 45.47                       | -       | V            | 0        | -       |

| Report        | Test Item | Mode<br>/<br>CH. | Ant.<br>Pol. | Measured           | GKR425339 /<br>2533B-425339 |         | Measured           |       | 36386 /<br>-436386 | Gap (dB) |         |
|---------------|-----------|------------------|--------------|--------------------|-----------------------------|---------|--------------------|-------|--------------------|----------|---------|
|               |           |                  |              | Frequency<br>(MHz) | Peak                        | Average | Frequency<br>(MHz) | Peak  | Average            | Peak     | Average |
| DTS<br>(WLAN) | LF        | G /<br>Low       | V            | 51.34              | 37.48                       |         | 946.65             | 36.71 | 1                  | 0.77     | -       |

#### - End of Test Report -