



FCC Report

Applicant: Akyumen Technologies Corp.

Address of Applicant: 7401 Wiles Road, Suite 123, Coral Spring, Florida, United States

Equipment Under Test (EUT)

Product Name: Tablet Projector

Model No.: FALCON 2W

Trade mark: Akyumen

FCC ID: 2ADLDFALCON2W

Applicable standards: FCC CFR Title 47 Part 15 Subpart B:2015

Date of sample receipt: October 17, 2016


Date of Test: October 18-24, 2016

Date of report issue: October 26, 2016

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Robinson Lo
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

| Version No. | Date | Description |
|-------------|------------------|-------------|
| 00 | October 26, 2016 | Original |
| | | |
| | | |
| | | |
| | | |

Prepared By:

Edward.Pan

Date:

October 26, 2016

Project Engineer

Check By:

Andy. Wu

Date:

October 26, 2016

Reviewer

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4 Test Summary

| Test Item | Section in CFR 47 | Result |
|--------------------|-------------------|--------|
| Conducted Emission | Part15.107 | PASS |
| Radiated Emissions | Part15.109 | PASS |

PASS: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.4: 2014.

4.1 Measurement Uncertainty

| Test Item | Frequency Range | Measurement Uncertainty | Notes |
|----------------------------------|-----------------|-------------------------|-------|
| Radiated Emission | 9kHz ~ 30MHz | $\pm 4.34\text{dB}$ | (1) |
| Radiated Emission | 30MHz ~ 1000MHz | $\pm 4.24\text{dB}$ | (1) |
| Radiated Emission | 1GHz ~ 26.5GHz | $\pm 4.68\text{dB}$ | (1) |
| AC Power Line Conducted Emission | 0.15MHz ~ 30MHz | $\pm 3.45\text{dB}$ | (1) |

Note (1): The measurement uncertainty is for coverage factor of $k=2$ and a level of confidence of 95%.

5 General Information

5.1 Client Information

| | |
|--------------------------------------|--|
| Applicant: | Akyumen Technologies Corp. |
| Address of Applicant: | 7401 Wiles Road, Suite 123, Coral Spring, Florida, United States |
| Manufacturer/ Factory: | Akyumen Technologies Corp. |
| Address of Manufacturer/ Factory: | 7401 Wiles Road, Suite 123, Coral Spring, Florida, United States |

5.2 General Description of EUT

| | |
|---------------|--|
| Product Name: | Tablet Projector |
| Model No.: | FALCON 2W |
| Power Supply: | Adapter Model No.: CGSW-05003000 Input: AC 100-240V, 50/60Hz, 0. 5A Output: DC 5.0V, 3A or DC 3.7V 2*3400mAh Li-ion Battery |

5.3 Test mode

| | |
|--------------------------------|--|
| Test mode: | |
| Burning test mode(HDMI output) | Keep the EUT in burning test and HDMI output status. |
| Projection mode | Keep the EUT in projection operation status. |
| REC mode | Keep the EUT in video record mode. |
| playing mode | Keep the EUT in video playing mode. |

Remark: All of the mode was tested, and found the burning test mode and HDMI output status was the worst case. So only the case was record in the report.

5.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 22, 2016.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016.

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone,

Xixiang Road, Baoan District, Shenzhen, Guangdong, China

Tel: 0755-27798480

Fax: 0755-27798960

5.6 Description of Support Units

| Manufacturer | Description | Model | Serial Number | FCC Approval |
|--------------|-------------|--------|-----------------|--------------|
| Polaroid | LCD TV | N/A | PLV68155S67 | FCC DoC |
| DANYIN | Earphone | DT-301 | DT3011103001592 | FCC DoC |

5.7 Deviation from Standards

Biconical, log.per. antenna and horn antenna were used instead of dipole antenna.
Semi-anechoic Chamber was used as alternation of open air test sites, and all test suites were performed with radiated method in it.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

6 Test Instruments list

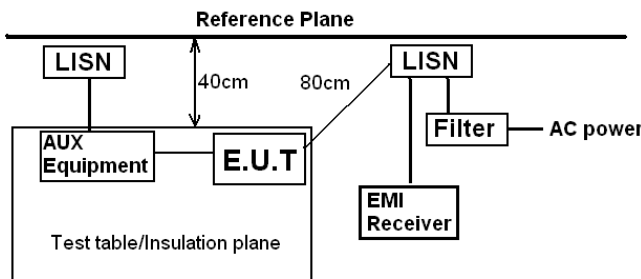
| Radiated Emission: | | | | | | |
|--------------------|-------------------------------|------------------|-----------------------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | 3m Semi- Anechoic Chamber | ZhongYu Electron | 9.0(L)*6.0(W)* 6.0(H) | GTS250 | July. 03 2015 | July. 02 2020 |
| 2 | Control Room | ZhongYu Electron | 6.2(L)*2.5(W)* 2.4(H) | GTS251 | N/A | N/A |
| 3 | ESU EMI Test Receiver | R&S | ESU26 | GTS203 | June 29 2016 | June 28 2017 |
| 4 | BiConiLog Antenna | SCHWARZBECK | VULB9163 | GTS214 | June 29 2016 | June 28 2017 |
| 5 | Double -ridged waveguide horn | SCHWARZBECK | 9120D | GTS208 | June 29 2016 | June 28 2017 |
| 6 | RF Amplifier | HP | 8347A | GTS204 | June 29 2016 | June 28 2017 |
| 7 | Broadband Preamplifier | SCHWARZBECK | BBV9718 | GTS535 | June 29 2016 | June 28 2017 |
| 8 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 9 | Coaxial cable | GTS | N/A | GTS210 | June 29 2016 | June 28 2017 |
| 10 | Coaxial Cable | GTS | N/A | GTS211 | June 29 2016 | June 28 2017 |
| 11 | Thermo meter | N/A | N/A | GTS256 | June 29 2016 | June 28 2017 |
| 12 | Loop Antenna | Zhinan | ZN30900A | GTS534 | June. 29 2016 | June. 28 2017 |

| Conducted Emission: | | | | | | |
|---------------------|--------------------------|---------------------|----------------------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | Shielding Room | ZhongYu Electron | 7.3(L)x3.1(W)x2.9(H) | GTS252 | May 16 2014 | May 15 2019 |
| 2 | EMI Test Receiver | R&S | ESCI 7 | GTS552 | June 29 2016 | June 28 2017 |
| 3 | Pulse Limiter | R&S | ESH3-Z2 | GTS224 | June 29 2016 | June 28 2017 |
| 4 | Coaxial Switch | ANRITSU CORP | MP59B | GTS225 | June 29 2016 | June 28 2017 |
| 5 | Artificial Mains Network | SCHWARZBECK MESS | NSLK8127 | GTS226 | June 29 2016 | June 28 2017 |
| 6 | Coaxial Cable | GTS | N/A | GTS227 | June 29 2016 | June 28 2017 |
| 7 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 8 | Thermo meter | KTJ | TA328 | GTS233 | June 29 2016 | June 28 2017 |

| General used equipment: | | | | | | |
|-------------------------|----------------|--------------|-----------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | Barometer | ChangChun | DYM3 | GTS257 | June 29 2016 | June 28 2017 |

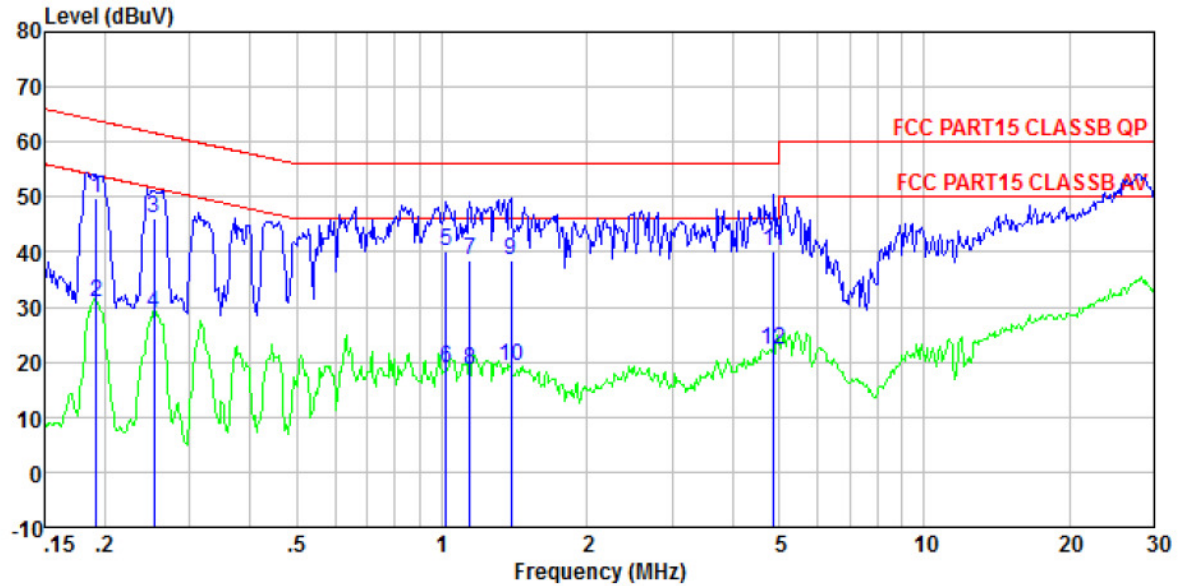
7 Test Results and Measurement Data

7.1 Conducted Emissions

| | | | |
|--|--|--------------|-----------|
| Test Requirement: | FCC Part15 B Section 15.107 | | |
| Test Method: | ANSI C63.4:2014 | | |
| Test Frequency Range: | 150KHz to 30MHz | | |
| Class / Severity: | Class B | | |
| Receiver setup: | RBW=9KHz, VBW=30KHz, Sweep time=auto | | |
| Limit: | Frequency range (MHz) | Limit (dBuV) | |
| | | Quasi-peak | Average |
| | 0.15-0.5 | 66 to 56* | 56 to 46* |
| | 0.5-5 | 56 | 46 |
| | 5-30 | 60 | 50 |
| * Decreases with the logarithm of the frequency. | | | |
| Test setup: |  | | |
| | <p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p> | | |
| Test procedure: | <ol style="list-style-type: none">1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement. | | |
| Test Instruments: | Refer to section 6 for details | | |
| Test mode: | Refer to section 5.3 for details | | |
| Test results: | Pass | | |

Measurement Data

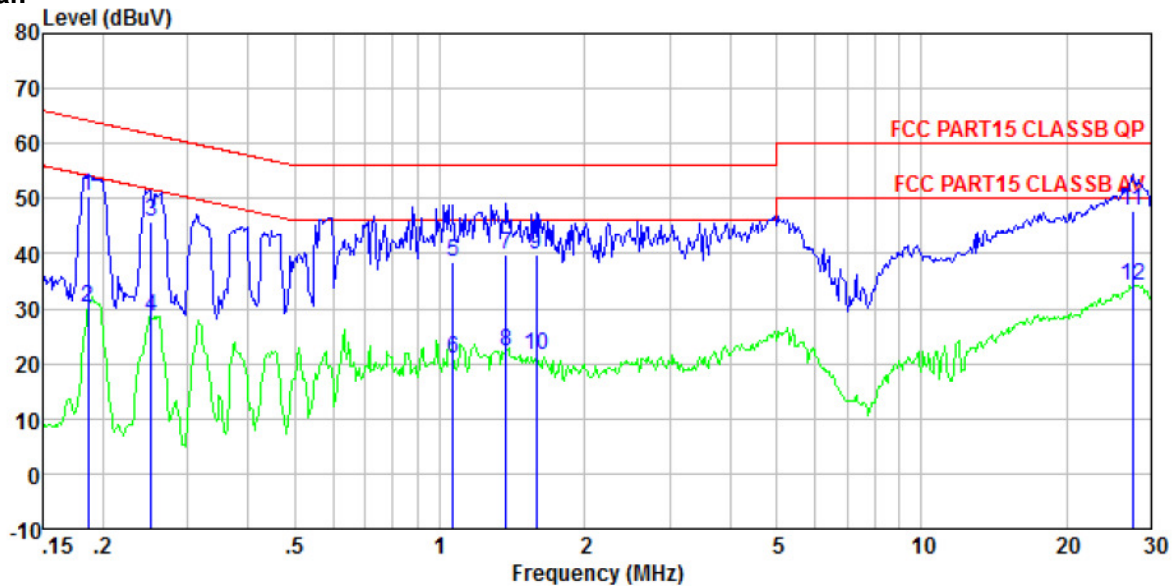
Line:



Site : Shielded room
 Condition : FCC PART15 CLASSB QP LINE
 Job No. : 0216
 Test mode : Burning test mode(HDMI output)
 Test Engineer: Boy

| | Freq | Read Level | Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark |
|----|-------|------------|-------|-------------|------------|------------|------------|---------|
| | MHz | dBuV | dBuV | dB | dB | dBuV | dB | |
| 1 | 0.192 | 49.12 | 49.68 | 0.43 | 0.13 | 63.93 | -14.25 | QP |
| 2 | 0.192 | 30.43 | 30.99 | 0.43 | 0.13 | 53.93 | -22.94 | Average |
| 3 | 0.253 | 45.62 | 46.17 | 0.44 | 0.11 | 61.64 | -15.47 | QP |
| 4 | 0.253 | 28.19 | 28.74 | 0.44 | 0.11 | 51.64 | -22.90 | Average |
| 5 | 1.021 | 39.72 | 40.10 | 0.25 | 0.13 | 56.00 | -15.90 | QP |
| 6 | 1.021 | 18.53 | 18.91 | 0.25 | 0.13 | 46.00 | -27.09 | Average |
| 7 | 1.141 | 38.28 | 38.65 | 0.24 | 0.13 | 56.00 | -17.35 | QP |
| 8 | 1.141 | 18.26 | 18.63 | 0.24 | 0.13 | 46.00 | -27.37 | Average |
| 9 | 1.388 | 38.27 | 38.63 | 0.23 | 0.13 | 56.00 | -17.37 | QP |
| 10 | 1.388 | 18.85 | 19.21 | 0.23 | 0.13 | 46.00 | -26.79 | Average |
| 11 | 4.874 | 39.83 | 40.19 | 0.21 | 0.15 | 56.00 | -15.81 | QP |
| 12 | 4.874 | 21.94 | 22.30 | 0.21 | 0.15 | 46.00 | -23.70 | Average |

Neutral:



Site : Shielded room
 Condition : FCC PART15 CLASSB QP NEUTRAL
 Job No. : 0216
 Test mode : Burning test mode(HDMI output)
 Test Engineer: Boy

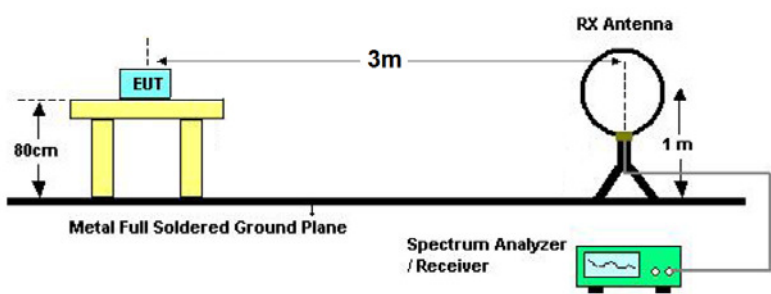
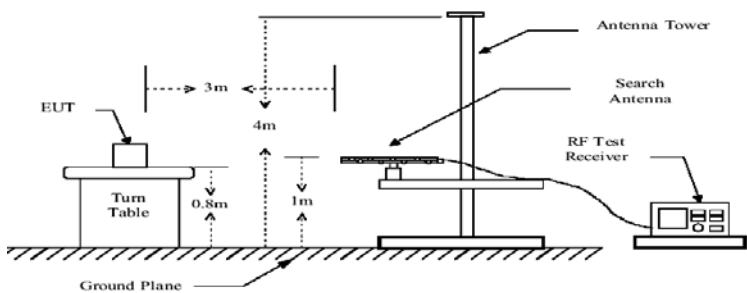
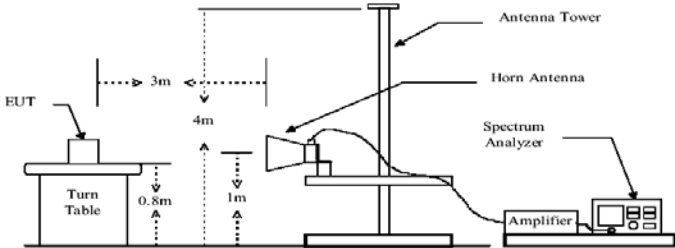
| | Freq | Read Level | LISN Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark |
|----|--------|------------|------------|-------------|------------|------------|------------|---------|
| | MHz | dBuV | dBuV | dB | dB | dBuV | dB | |
| 1 | 0.186 | 49.76 | 50.30 | 0.41 | 0.13 | 64.20 | -13.90 | QP |
| 2 | 0.186 | 29.55 | 30.09 | 0.41 | 0.13 | 54.20 | -24.11 | Average |
| 3 | 0.252 | 45.42 | 45.95 | 0.42 | 0.11 | 61.69 | -15.74 | QP |
| 4 | 0.252 | 27.92 | 28.45 | 0.42 | 0.11 | 51.69 | -23.24 | Average |
| 5 | 1.065 | 38.13 | 38.47 | 0.21 | 0.13 | 56.00 | -17.53 | QP |
| 6 | 1.065 | 20.60 | 20.94 | 0.21 | 0.13 | 46.00 | -25.06 | Average |
| 7 | 1.374 | 39.63 | 39.97 | 0.21 | 0.13 | 56.00 | -16.03 | QP |
| 8 | 1.374 | 21.95 | 22.29 | 0.21 | 0.13 | 46.00 | -23.71 | Average |
| 9 | 1.585 | 39.35 | 39.69 | 0.20 | 0.14 | 56.00 | -16.31 | QP |
| 10 | 1.585 | 21.06 | 21.40 | 0.20 | 0.14 | 46.00 | -24.60 | Average |
| 11 | 27.416 | 47.06 | 47.68 | 0.39 | 0.23 | 60.00 | -12.32 | QP |
| 12 | 27.416 | 33.48 | 34.10 | 0.39 | 0.23 | 50.00 | -15.90 | Average |

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss

7.2 Radiated Emission

| | | | | | |
|-----------------------|--|------------|--------------------|---------------|------------------|
| Test Requirement: | FCC Part15 B Section 15.109 | | | | |
| Test Method: | ANSI C63.4:2014 | | | | |
| Test Frequency Range: | 30MHz to 6GHz | | | | |
| Test site: | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | |
| Receiver setup: | | | | | |
| | Frequency | Detector | RBW | VBW | Remark |
| | 30MHz-1GHz | Quasi-peak | 120kHz | 300kHz | Quasi-peak Value |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value |
| Peak | | 1MHz | 10Hz | Average Value | |
| Limit: | | | | | |
| | Frequency | | Limit (dBuV/m @3m) | | Remark |
| | 30MHz-88MHz | | 40.00 | | Quasi-peak Value |
| | 88MHz-216MHz | | 43.50 | | Quasi-peak Value |
| | 216MHz-960MHz | | 46.00 | | Quasi-peak Value |
| | 960MHz-1GHz | | 54.00 | | Quasi-peak Value |
| | Above 1GHz | | 54.00 | | Average Value |
| 74.00 | | | Peak Value | | |
| Test Procedure: | <div>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</div> <div>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</div> | | | | |

| | |
|----------------------------|---|
| <p>Test setup:</p> | <p>Below 30MHz</p>  <p>0MHz ~ 1GHz</p>  <p>Above 1GHz</p>  |
| <p>Test environment:</p> | <p>Temp.: 25 °C Humid.: 52% Press.: 1 012mbar</p> |
| <p>Measurement Record:</p> | <p>Uncertainty: ± 4.5dB</p> |
| <p>Test Instruments:</p> | <p>Refer to section 6 for details</p> |
| <p>Test mode:</p> | <p>Refer to section 5.3 for details</p> |
| <p>Test results:</p> | <p>Pass</p> |

3

Remark: The emission levels of the frequencies which below 30MHz are very lower than the limit were not show in test report.

Note:

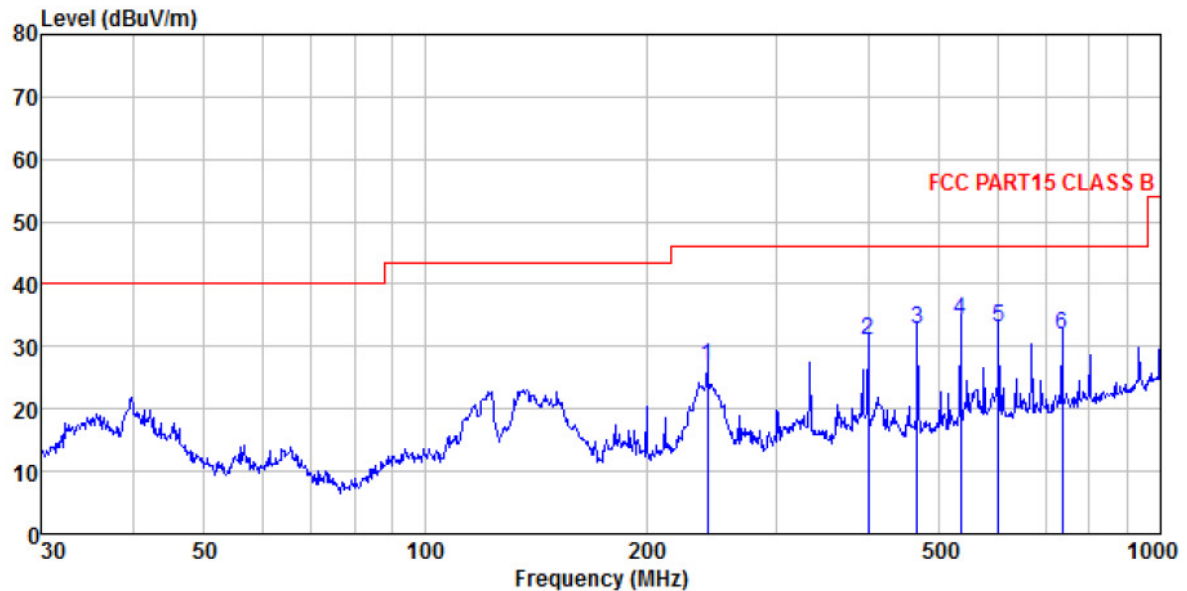
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

Measurement Data

Below 1G

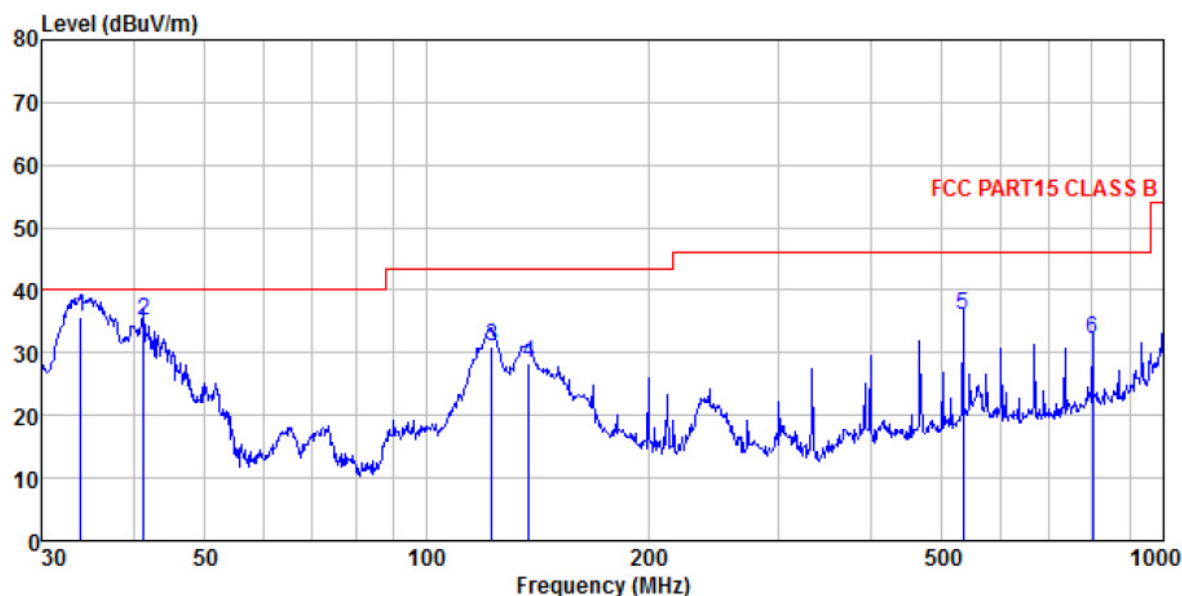
Horizontal:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m HORIZONTAL
 Job NO. : 0216
 Test Mode : Burning test mode(HDMI output)
 Test Engineer: Sky

| | Freq | ReadAntenna | Cable | Preamp | Level | Limit | Over | |
|---|---------|-------------|--------|--------|--------|--------|--------|-----------|
| | MHz | Level | Factor | Loss | Factor | Line | Limit | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB |
| 1 | 241.676 | 40.24 | 14.09 | 2.08 | 29.57 | 26.84 | 46.00 | -19.16 QP |
| 2 | 400.432 | 40.69 | 17.10 | 2.85 | 29.50 | 31.14 | 46.00 | -14.86 QP |
| 3 | 467.235 | 41.29 | 17.77 | 3.17 | 29.36 | 32.87 | 46.00 | -13.13 QP |
| 4 | 533.832 | 40.79 | 19.26 | 3.46 | 29.30 | 34.21 | 46.00 | -11.79 QP |
| 5 | 601.427 | 38.26 | 20.46 | 3.73 | 29.30 | 33.15 | 46.00 | -12.85 QP |
| 6 | 734.491 | 35.64 | 21.24 | 4.22 | 29.20 | 31.90 | 46.00 | -14.10 QP |

Vertical:

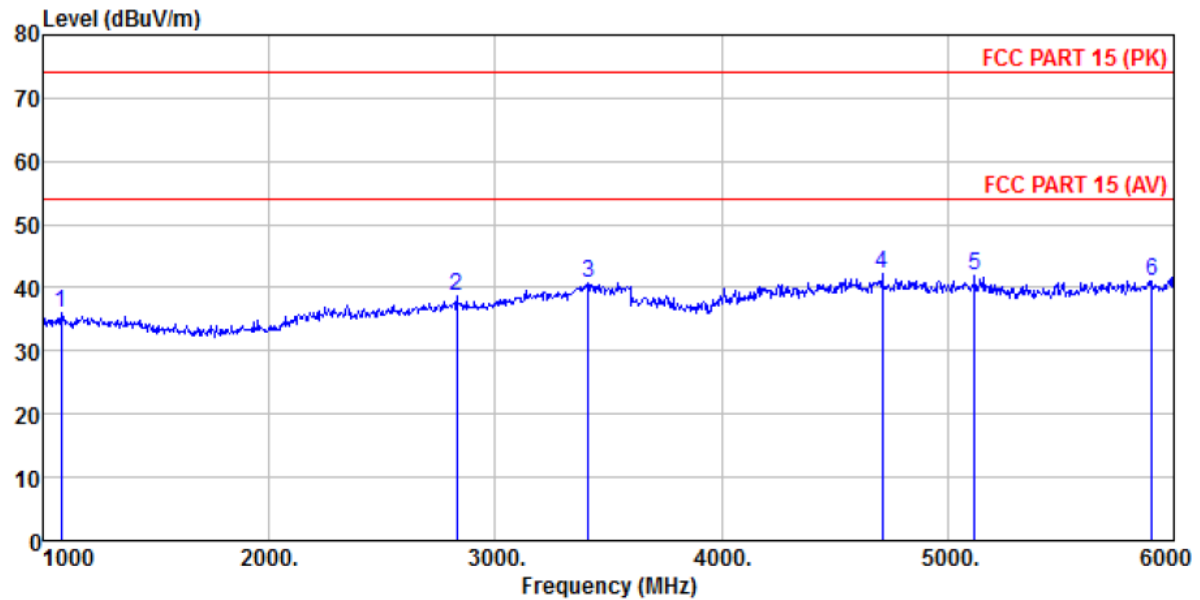


Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VERTICAL
 Job NO. : 0216
 Test Mode : Burning test mode(HDMI output)
 Test Engineer: Sky

| | Freq | ReadAntenna | Cable | Preamp | Limit | Over | |
|---|---------|-------------|-------|--------|-------|--------|-----------------|
| | Level | Factor | Loss | Factor | Level | Line | Limit Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m dB |
| 1 | 33.917 | 51.00 | 14.31 | 0.60 | 30.08 | 35.83 | 40.00 -4.17 QP |
| 2 | 41.277 | 48.79 | 15.57 | 0.68 | 30.04 | 35.00 | 40.00 -5.00 QP |
| 3 | 122.404 | 47.14 | 12.09 | 1.38 | 29.56 | 31.05 | 43.50 -12.45 QP |
| 4 | 137.420 | 45.97 | 10.35 | 1.49 | 29.47 | 28.34 | 43.50 -15.16 QP |
| 5 | 533.832 | 42.55 | 19.26 | 3.46 | 29.30 | 35.97 | 46.00 -10.03 QP |
| 6 | 801.786 | 34.99 | 22.06 | 4.46 | 29.20 | 32.31 | 46.00 -13.69 QP |

Above 1G

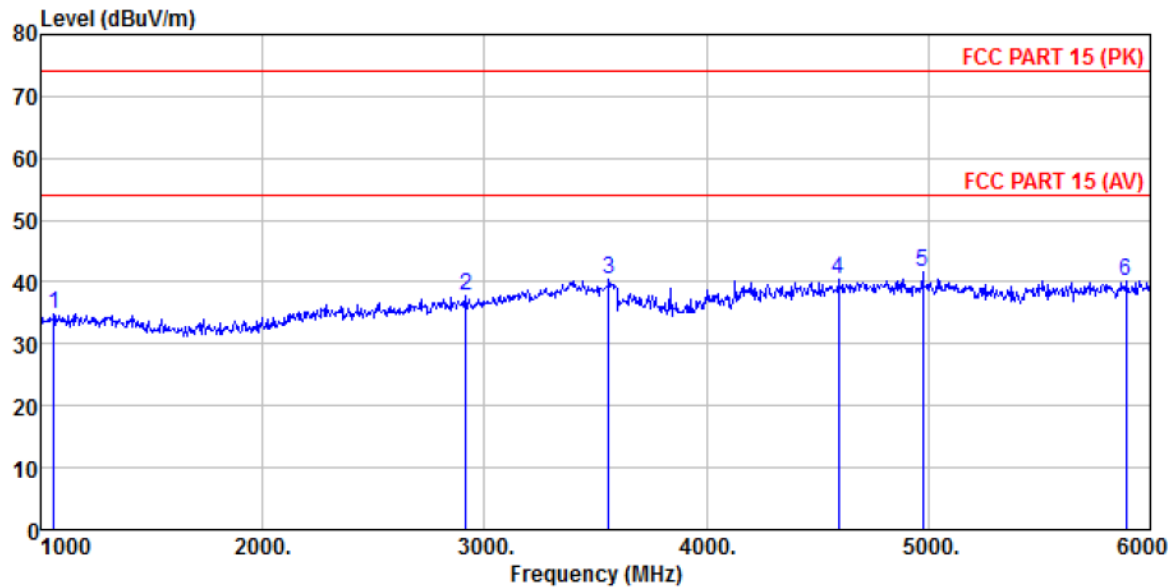
Horizontal:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m HORIZONTAL
 Job NO. : 0216
 Test Mode : Burning test mode(HDMI output)
 Test Engineer: Sky

| | Freq | Read | Antenna | Cable | Preamp | Level | Limit | Over | |
|---|----------|-------|---------|-------|--------|--------|--------|--------|--------|
| | MHz | Level | Factor | Loss | Factor | dBuV/m | Line | Limit | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 1080.000 | 39.74 | 24.70 | 4.37 | 32.89 | 35.92 | 74.00 | -38.08 | Peak |
| 2 | 2830.000 | 38.07 | 28.39 | 5.78 | 33.51 | 38.73 | 74.00 | -35.27 | Peak |
| 3 | 3410.000 | 38.18 | 28.64 | 6.78 | 32.85 | 40.75 | 74.00 | -33.25 | Peak |
| 4 | 4710.000 | 33.98 | 31.66 | 8.52 | 32.04 | 42.12 | 74.00 | -31.88 | Peak |
| 5 | 5120.000 | 33.23 | 32.05 | 8.94 | 32.24 | 41.98 | 74.00 | -32.02 | Peak |
| 6 | 5905.000 | 30.36 | 32.78 | 10.06 | 32.18 | 41.02 | 74.00 | -32.98 | Peak |

Vertical:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m VERTICAL
 Job NO. : 0216
 Test Mode : Burning test mode(HDMI output)
 Test Engineer: Sky

| | Freq | Read | Antenna | Cable | Preamp | Level | Limit | Over | |
|---|----------|-------|---------|-------|--------|--------|--------|--------|--------|
| | MHz | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 1060.000 | 38.81 | 24.65 | 4.35 | 32.87 | 34.94 | 74.00 | -39.06 | Peak |
| 2 | 2915.000 | 36.88 | 28.44 | 5.85 | 33.41 | 37.76 | 74.00 | -36.24 | Peak |
| 3 | 3560.000 | 36.88 | 29.09 | 7.07 | 32.67 | 40.37 | 74.00 | -33.63 | Peak |
| 4 | 4595.000 | 32.37 | 31.51 | 8.42 | 31.98 | 40.32 | 74.00 | -33.68 | Peak |
| 5 | 4975.000 | 33.07 | 31.94 | 8.74 | 32.17 | 41.58 | 74.00 | -32.42 | Peak |
| 6 | 5890.000 | 29.43 | 32.76 | 10.06 | 32.19 | 40.06 | 74.00 | -33.94 | Peak |

Note:

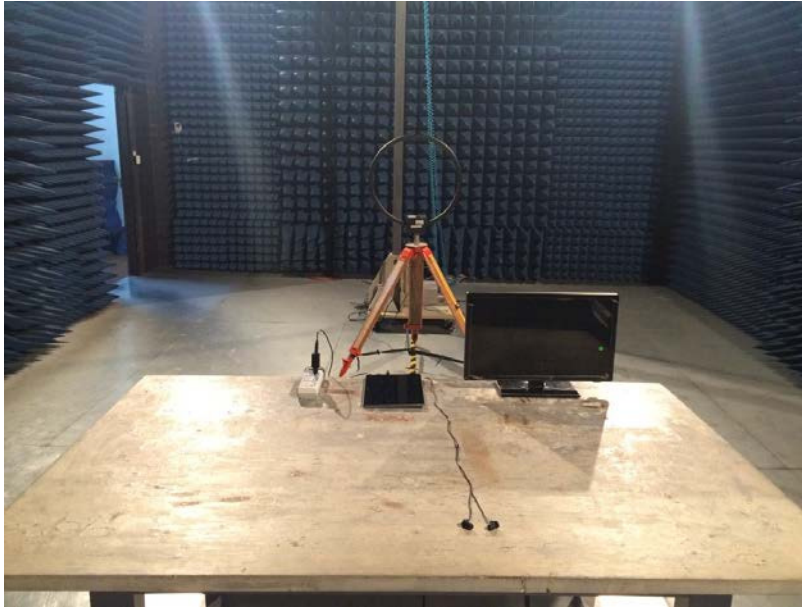
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

Remark: There are no emission in the band which above 6GHz. So the data was not record on the report.

8 Test Setup Photo

Radiated Emission



Radiated Emission



Conducted Emission



9 EUT Constructional Details

Reference to the test report No. : GTS201609000216E01

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