



TEST REPORT

| | | |
|--|--|---|
| <p>KCTL Inc. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-31-285-0894 FAX: 82-505-299-8311 www.kctl.co.kr</p> | <p>Report No.: KR18-SEF0110-B Page (1) of (20)</p> |  |
|--|--|---|

1. Client

- Name : Samsung Electronics Co., Ltd.
- Address : 19 Chapin Rd., Building D, Pine Brook, New Jersey,
 United States, 07058
- Date of Receipt : 2018-07-18

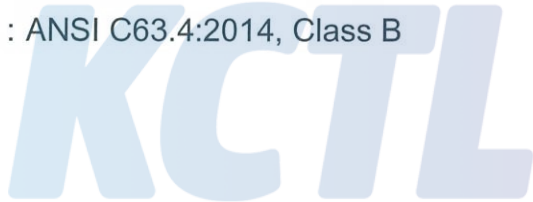
2. Use of Report : -

3. Name of Product and Model : SAMSUNG HMD Odyssey+ / XE800ZBA

4. Manufacturer and Country of Origin : Samsung Electronics Co., Ltd. / China

5. Date of Test : 2018-08-10

6. Test method used : ANSI C63.4:2014, Class B



7. FCC ID : A3LXE800ZBA

8. Test Results : Refer to the test result in the test report

| | | |
|-------------|---|---|
| Affirmation | Tested by  | Technical Manager  |
| | Name : Dootae Lee (Signature) | Name : Gunsu Park (Signature) |

2018-08-14

KCTL Inc.

As a test result of the sample which was submitted from the client, this report does not guarantee the whole product quality. This test report should not be used and copied without a written agreement by KCTL Inc.

REPORT REVISION HISTORY

| Date | Revision | Page No |
|------------|---|---------|
| 2018-08-07 | Originally issued (KR18-SEF0110) | - |
| 2018-08-13 | Revised Name of Product (KR18-SEF0110-A) | 1, 10 |
| 2018-08-14 | Revised auxiliary equipments (KR18 SEF0110-B) | 10 |
| | | |
| | | |
| | | |
| | | |
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| | | |

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1. Applicant information

Applicant: Samsung Electronics Co., Ltd.
Address: 19 Chapin Rd., Building D, Pine Brook, New Jersey,
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Telephone: +82-31-279-2553
E-mail: needs.kim@samsung.com
Contact name: Dongseong Kim

Manufacturer: Samsung Electronics Co., Ltd.
Address: 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do,
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2. Laboratory information

Address

KCTL Inc. (Suwon Lab.)

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Telephone Number: 82 31 285 0894

Facsimile Number: 82 505 299 8311

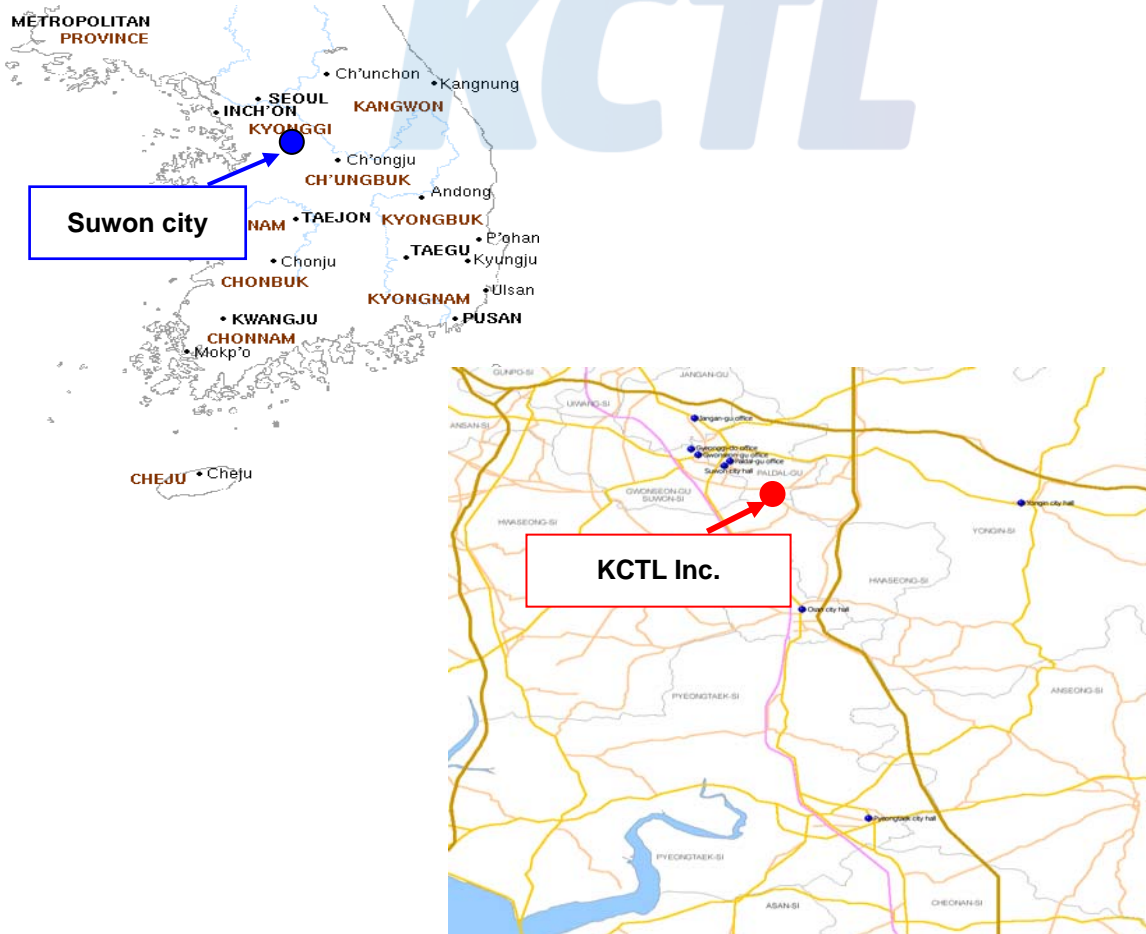
FCC Site Designation No: KR0040

VCCI Registration No. : R-3327, G-198, C-3706, T-1849

Industry Canada Registration No. : 8035A

KOLAS NO.: KT231

SITE MAP



3. Test system configuration

3.1 Operation environment

| | Temperature | Humidity | Pressure |
|-------------------|----------------------|------------------------------|----------|
| Chamber 10 m(RE) | 23.9 °C / 24.0 °C | 42.4 % R.H. / 41.9 % R.H. | - |
| Shielded room(CE) | 24.5 °C | 41.9 % R.H. | - |

Test site

These testing items were performed following locations;

| Test item | Test site |
|--------------------|---------------|
| Conducted Emission | Shielded Room |
| Radiated Emission | 10 m Chamber |

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3.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC.

The factors contributing to uncertainties are test receiver, cable loss, antenna factor calibration, Antenna directivity, antenna factor variation with height, antenna phase center variation, antenna frequency interpolation, measurement distance variation, site imperfection, mismatch, and system repeatability. Based on CISPR 16-4-2, the measurement uncertainty level with a 95 % confidence level was applied.

| Conducted Emission measurement (Confidence level about 95 %, $k = 2$) | | | |
|--|---------------------|---------|---------|
| Shielded Room (CE#1) | 9 kHz ~ 150 kHz: | 3.66 dB | |
| | 150 kHz ~ 30 MHz: | 3.24 dB | |
| Shielded Room (CE#2) | 9 kHz ~ 150 kHz: | 3.48 dB | |
| | 150 kHz ~ 30 MHz: | 3.06 dB | |
| Radiated Emission measurement (Confidence level about 95 %, $k = 2$) | | | |
| 10 m Chamber (4F) | 30 MHz ~ 300 MHz | 3 m: | 5.02 dB |
| | | 10 m: | 5.00 dB |
| | 300 MHz ~ 1 000 MHz | 3 m: | 5.16 dB |
| | | 10 m: | 5.04 dB |
| | 1 GHz ~ 6 GHz | 3 m: | 6.30 dB |
| | 6 GHz ~ 18 GHz | 3 m: | 6.72 dB |
| 18 GHz ~ 40 GHz | 3 m: | 6.22 dB | |
| 10 m Chamber (2F) | 30 MHz ~ 300 MHz | 3 m: | 5.54 dB |
| | | 10 m: | 5.52 dB |
| | 300 MHz ~ 1 000 MHz | 3 m: | 5.60 dB |
| | | 10 m: | 5.48 dB |
| | 1 GHz ~ 6 GHz | 3 m: | 6.32 dB |
| | 6 GHz ~ 18 GHz | 3 m: | 6.76 dB |
| 3 m Chamber (3F) | 30 MHz ~ 300 MHz | 3 m: | 4.90 dB |
| | 300 MHz ~ 1 000 MHz | 3 m: | 5.06 dB |
| | 1 GHz ~ 6 GHz | 3 m: | 6.62 dB |
| | 6 GHz ~ 18 GHz | 3 m: | 6.64 dB |

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3.3 Measurement Program

These test items were performed by software programs;

| Test item | Measurement Program | | Used |
|--------------------|---------------------|-----------------------|------|
| Conducted Emission | EP5CE_V 5.4.0(TOYO) | | ☒ |
| Radiated Emission | 2F | EP5RE_V 4.6.0(TOYO) | ☒ |
| | 4F | EP5RE_V 5.11.10(TOYO) | |



4. Description of EUT

4.1 General information

| | |
|--------------|---|
| Platform | Windows MR / Steam VR |
| Display | Dual 3.5inch AMOLED+SFS |
| Resolution | 2880 x 1600 (800ppi ↑ effect) (1440x1600 per eye) |
| Feq. | 60Hz, 90Hz |
| FOV | 110° |
| Sensor | WMR Camera, IPD sensor, G-sensor, gyroscope, proximity |
| Tracking | 6DOF, Inside -out |
| Connectivity | HDMI 2.0, USB 3.0, BT |
| Audio | AKG Premium Audio |
| Mic. | Dual Array Mic |
| IPD | Yes |
| Convenience | Adjustable headstrap Flash Light / BT in HMD / Wider Eye box Wider Part of Nose, Anti-Fog |

4.2 Product description

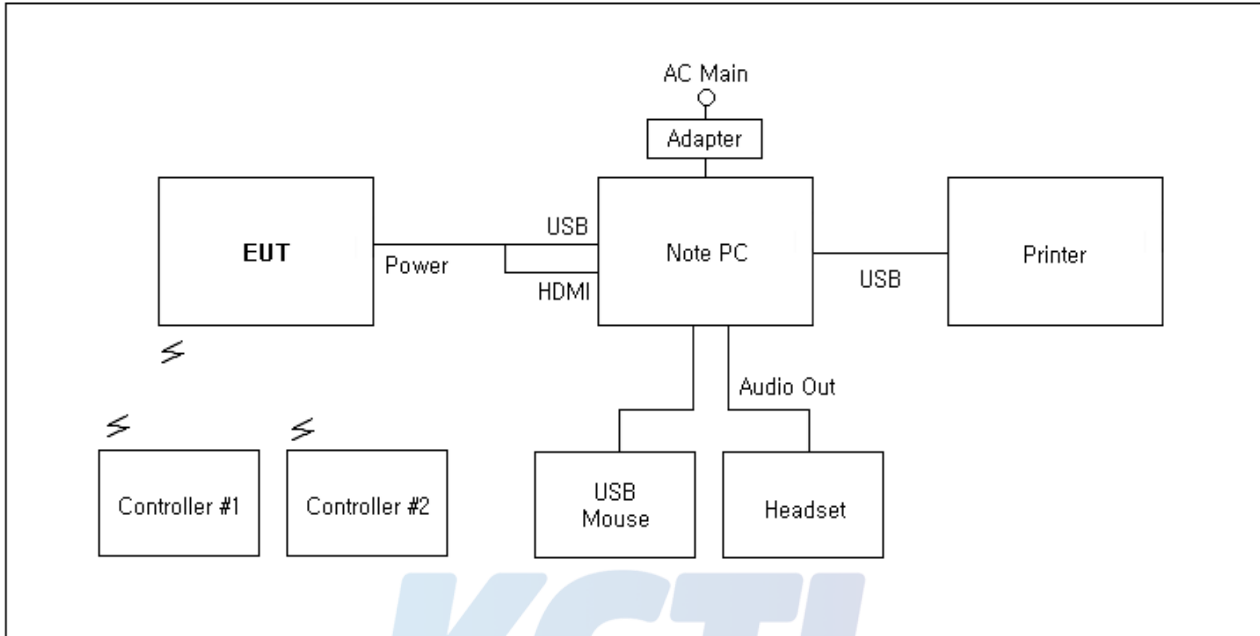
| | |
|--------------------------|--|
| Type of product | SAMSUNG HMD Odyssey+ |
| Model name (Basic) | XE800ZBA |
| Model name (Variant) | - |
| Difference | - |
| Serial no | - |
| Testing voltage | 120 V, 60 Hz (Power supplied from Note PC) |
| Input rating | DC 5 V |
| Internal clock frequency | Above 108 MHz |
| Note | - |

4.3 Auxiliary equipments

| Type | Model / Part # | S/N | FCC ID | Manufacturer |
|-----------------------|----------------|---------------------|--------------|--------------|
| Controller #1 | AA-HC1HURB | - | A3LAAHC1HURB | SAMSUNG |
| Controller #2 | AA-HC1HULB | - | A3LAAHC1HULB | SAMSUNG |
| Note PC ¹⁾ | NT850XAC-X716 | 0W9G91ZK40 0029Y | - | SAMSUNG |
| Adapter | PA-1181-96 | - | - | SAMSUNG |
| USB Mouse | M-BZ96C | - | - | Logitech |
| Headset | SHS-250V | TAKC706226H | - | SAMSUNG |
| Printer | SCX-1855FW | TH441150KF | - | SAMSUNG |

¹⁾: This auxiliary equipment is subject to DoC product.

4.4 Test configuration



| | Start | | End | | Cable | |
|---|------------|-----------|-----------|----------|------------|----------|
| | Name | I/O port | Name | I/O port | Length (m) | Spec. |
| 1 | EUT | Power | Note PC | USB | 3.0 | Shield |
| 2 | | | Note PC | HDMI | 3.0 | Shield |
| 3 | Note PC | Power | Adapter | - | 1.5 | Unshield |
| 4 | | USB | USB Mouse | - | 1.5 | Shield |
| 5 | | Audio Out | Headset | - | 1.7 | Unshield |
| 6 | | USB | Printer | USB | 2.0 | Shield |

4.5 Operating conditions

The EUT was configured as normal intended use.

| Test mode | Normal operating |
|-----------|--|
| Test #1 | Bluetooth pairing test. |
| | 1 kHz color bar test through VR image and check operation status. (Resolution: 2 880 x 1 600) |



5. Summary of test results

5.1 Summary of EMI emission test results

FCC part 15 subpart B (Class B)

ANSI C63.4:2014

| Applied | Test items | Test method | Result |
|---------|--------------------|--|--------|
| ☒ | Conducted Emission | FCC part 15 subpart B (Class B) ANSI C63.4:2014 | Pass |
| ☒ | Radiated Emission | FCC part 15 subpart B (Class B) ANSI C63.4:2014 | Pass |



6. Test results

6.1 Conducted Emission

| | | | |
|--------------------|--|-------------------|-------------|
| Test specification | FCC Part 15, Section 15.107(a), Class B, ANSI C63.4:2014 | | |
| Testing voltage | 120 V, 60 Hz | | |
| Test facility | Shielded room (CE#2) | | |
| Date | 2018-08-10 | | |
| Temperature (°C) | 24.5 °C | Humidity (% R.H.) | 41.9 % R.H. |
| Remarks | Pass | | |

6.1.1 Limits of conducted emission measurement

AC main

| Frequency [MHz] | Class A Limits (dB(μ V)) | | Class B Limits (dB(μ V)) | |
|-----------------|-------------------------------|---------|-------------------------------|-----------------------|
| | Quasi-peak | Average | Quasi-peak | Average |
| 0.15 ~ 0.5 | 79 | 66 | 66 ~ 56 ¹⁾ | 56 ~ 46 ¹⁾ |
| 0.5 ~ 5 | 73 | 60 | 56 | 46 |
| 5 ~ 30 | 73 | 60 | 60 | 50 |

¹⁾ The limit decreases linearly with the logarithm of frequency.

6.1.2 Measurement procedure

The measurements were performed in a shielded room. EUT was setup as shown in photograph and placed on a non-metallic table height of 0.8 m above the reference ground plane. The rear of table was located 0.4 m to the vertical conducted plane. EUT was power through the LISN, which was bonded to the ground plane. The LISN power was filtered. Each EUT power lead, except ground (safety) lead was individually connected through a LISN to input power source. EUT signal cables that hung closer than 0.4 m to the Horizontal metal ground 0.3 m ~ 0.4 m long. The power cord was bundles in the center. All peripheral equipment was powered from a sub LISN. The LISN and ISN were positioned 0.8 m from the EUT. Peak and Average detection were used in preliminary testing and Quasi-peak and Average detections were used at final measurement.

6.1.3 Used equipments

| Equipment | Model no. | Serial no. | Makers | Next Cal. Date | Used |
|--------------------|-----------|------------|-------------|----------------|-------------------------------------|
| EMI TEST RECEIVER | ESCI | 100710 | R&S | 2018.08.24 | <input checked="" type="checkbox"/> |
| TWO-LINE V-NETWORK | ENV216 | 101352 | R&S | 2019.05.24 | <input checked="" type="checkbox"/> |
| TWO-LINE V-NETWORK | NNLK8121 | 8121-472 | SCHWARZBECK | 2018.08.25 | <input checked="" type="checkbox"/> |

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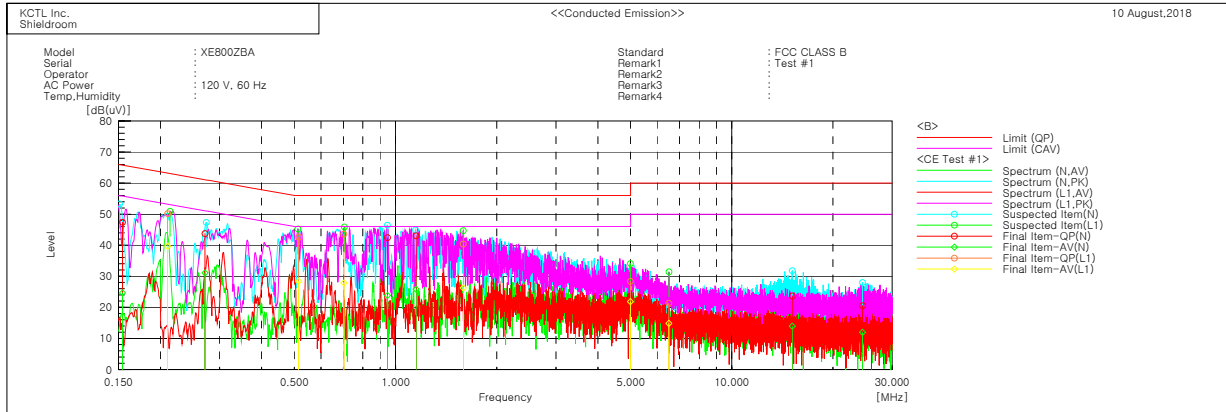
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6.1.4 Conducted emission measurement result

AC Main



Final Result

--- N Phase ---

| No. | Frequency [MHz] | Reading QP [dB(uV)] | Reading CAV [dB(uV)] | c.f [dB] | Result QP [dB(uV)] | Result CAV [dB(uV)] | Limit QP [dB(uV)] | Limit AV [dB(uV)] | Margin QP [dB] | Margin CAV [dB] |
|-----|-----------------|---------------------|----------------------|----------|--------------------|---------------------|-------------------|-------------------|----------------|-----------------|
| 1 | 0.15429 | 37.6 | 14.9 | 9.8 | 47.4 | 24.7 | 65.8 | 55.8 | 18.4 | 31.1 |
| 2 | 0.27125 | 34.1 | 21.5 | 9.6 | 43.7 | 31.1 | 61.1 | 51.1 | 17.4 | 20.0 |
| 3 | 0.94727 | 32.7 | 14.2 | 9.7 | 42.4 | 23.9 | 56.0 | 46.0 | 13.6 | 22.1 |
| 4 | 1.15107 | 33.3 | 16.1 | 9.7 | 43.0 | 25.8 | 56.0 | 46.0 | 13.0 | 20.2 |
| 5 | 15.1338 | 13.6 | 3.8 | 10.1 | 23.7 | 13.9 | 60.0 | 50.0 | 36.3 | 36.1 |
| 6 | 24.4827 | 10.3 | 1.7 | 10.2 | 20.5 | 11.9 | 60.0 | 50.0 | 39.5 | 38.1 |

--- L1 Phase ---

| No. | Frequency [MHz] | Reading QP [dB(uV)] | Reading CAV [dB(uV)] | c.f [dB] | Result QP [dB(uV)] | Result CAV [dB(uV)] | Limit QP [dB(uV)] | Limit AV [dB(uV)] | Margin QP [dB] | Margin CAV [dB] |
|-----|-----------------|---------------------|----------------------|----------|--------------------|---------------------|-------------------|-------------------|----------------|-----------------|
| 1 | 0.21003 | 40.3 | 29.9 | 9.8 | 50.1 | 39.7 | 63.2 | 53.2 | 13.1 | 13.5 |
| 2 | 0.51536 | 32.8 | 18.6 | 9.8 | 42.6 | 28.4 | 56.0 | 46.0 | 13.4 | 17.6 |
| 3 | 0.70175 | 33.8 | 18.0 | 9.8 | 43.6 | 27.8 | 56.0 | 46.0 | 12.4 | 18.2 |
| 4 | 1.59072 | 30.7 | 16.6 | 9.7 | 40.4 | 26.3 | 56.0 | 46.0 | 15.6 | 19.7 |
| 5 | 4.99485 | 18.6 | 12.1 | 9.8 | 28.4 | 21.9 | 56.0 | 46.0 | 27.6 | 24.1 |
| 6 | 6.50243 | 11.5 | 5.1 | 9.8 | 21.3 | 14.9 | 60.0 | 50.0 | 38.7 | 35.1 |

6.2 Radiated Emission

| | | | |
|--------------------|--|-------------------|-------------|
| Test specification | FCC Part 15, Section 15.109(g), Class B, ANSI C63.4:2014 | | |
| Testing voltage | 120 V, 60 Hz | | |
| Test facility | 10 m Chamber (4F) | | |
| Test distance | 3 m | | |
| Date | 2018-08-10 | | |
| Temperature (°C) | 23.9 °C | Humidity (% R.H.) | 42.4 % R.H. |
| | 24.0 °C | | 41.9 % R.H. |
| Remarks | Pass | | |

6.2.1 Limits of radiated emission measurement

| Frequency [MHz] | Class A (dB(μ V/m)) @10 m | Class B (dB(μ V/m)) @10 m |
|-----------------|--------------------------------|--------------------------------|
| 30-88 | 39 | 40 |
| 88-216 | 43.5 | 43.5 |
| 216-960 | 46.4 | 46 |
| Above 960 | 49.5 | 54 |

Note- Alternative standard: CISPR, Pub. 22

6.2.2 Measurement procedure

The test was done at a 10 m chamber with a quasi-peak detector. EUT was placed on a non-metallic table height of 0.1 m above the reference ground plane. Cables were folded back and forth forming a bundle 0.3 m to 0.4 m long and were hanged at a 0.4 m height to the ground plane. Cables connected to EUT were fixed to cause maximum emission. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

6.2.3 Used equipments

| Equipment | Model no. | Serial no. | Makers | Next Cal. Date | Used |
|----------------------------|--------------|------------|---------------|----------------|------|
| EMI TEST RECEIVER | ESR7 | 101078 | R&S | 2018.08.24 | ☒ |
| Bilog Antenna | CBL 6112D | 37876 | TESEQ | 2020.07.20 | ☒ |
| AMPLIFIER | 310N | 293004 | SONOMA | 2018.08.24 | ☒ |
| ATTENUATOR | 8491B | MY39270292 | AGILENT | - | ☒ |
| Antenna Mast | MA4640-XP-ET | - | Innco Systems | - | ☒ |
| Turn Table | TT 3.0-3t | - | MATURO | - | ☒ |
| DOUBLE RIDGED HORN ANTENNA | 3117-PA | 00161083 | ETS-LINDGREN | 2018.09.14 | ☒ |
| Spectrum Analyzer | FSV40 | 100988 | R&S | 2019.01.05 | ☒ |

6.2.4 Sample calculation

The field strength is calculated adding the antenna Factor, cable loss and, Antenna pad adding, subtracting the amplifier gain from the measured reading.

The sample calculation is as follow:

$$\text{Result} = \text{M.R} + \text{C.F}(\text{A.F} + \text{C.L} + 6 \text{ dB Att} - \text{A.G})$$

M.R = Meter Reading

C.F = Correction Factor

A.F = Antenna Factor

C.L = Cable Loss

A.G = Amplifier Gain

6 dB Att = 6 dB Attenuator

If M.R is 30 dB, A.F 12 dB, C.L 5 dB, 6 dB, A.G 35 dB

The result is $30 + 12 + 5 + 6 - 35 = 18 \text{ dB}(\mu\text{V}/\text{m})$

Bilog Antenna and ATTENUATOR (6 dB) were calibrated together.

AV = CAV : Abbreviation of CISPR Average

Correction

$$E_m = E_{dm} + 20\log(d/3)$$

E_m : Result, E_{dm} : Measured value of the measured distance

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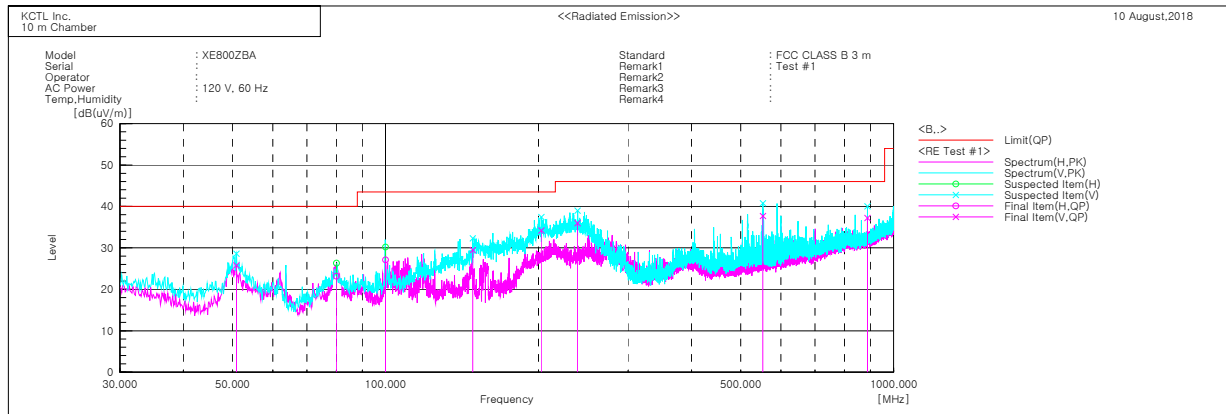
Report No.:
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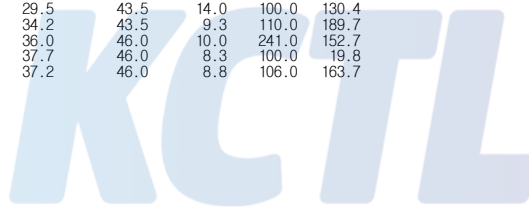
6.2.5 Radiated emission measurement result

30 MHz ~ 1 GHz



Final Result

| No. | Frequency [MHz] | (P) | Reading [dB(uV)] | c. f [dB(1/m)] | Result [dB(uV/m)] | Limit [dB(uV/m)] | Margin [dB] | Height [cm] | Angle [deg] |
|-----|-----------------|-----|------------------|----------------|-------------------|------------------|-------------|-------------|-------------|
| 1 | 50.852 | V | 41.2 | -15.4 | 25.8 | 40.0 | 14.2 | 107.0 | 175.1 |
| 2 | 80.016 | H | 38.6 | -15.4 | 23.2 | 40.0 | 16.8 | 389.0 | 88.5 |
| 3 | 99.955 | H | 38.3 | -11.2 | 27.1 | 43.5 | 16.4 | 280.0 | 104.2 |
| 4 | 148.478 | V | 39.7 | -10.2 | 29.5 | 43.5 | 14.0 | 100.0 | 130.4 |
| 5 | 202.529 | V | 45.3 | -11.1 | 34.2 | 43.5 | 9.3 | 110.0 | 189.7 |
| 6 | 238.781 | V | 44.2 | -8.2 | 36.0 | 46.0 | 10.0 | 241.0 | 152.7 |
| 7 | 552.814 | V | 35.8 | 1.9 | 37.7 | 46.0 | 8.3 | 100.0 | 19.8 |
| 8 | 888.055 | V | 28.7 | 8.5 | 37.2 | 46.0 | 8.8 | 106.0 | 163.7 |



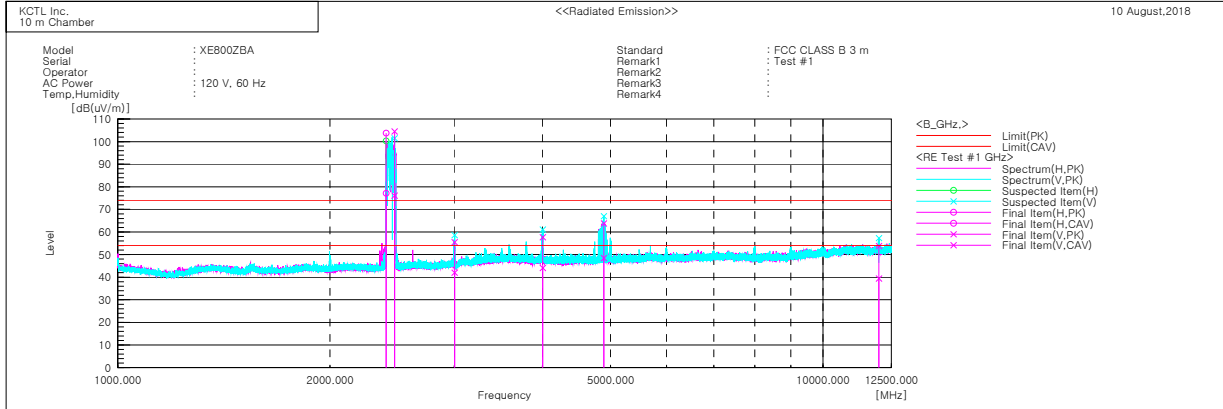
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1 GHz ~ 12.5 GHz



Final Result

| No. | Frequency [MHz] | (P) | Reading PK [dB(uV)] | Reading CAV [dB(uV)] | c.f [dB(1/m)] | Result PK [dB(uV/m)] | Result CAV [dB(uV/m)] | Limit PK [dB(uV/m)] | Limit AV [dB(uV/m)] | Margin PK [dB] | Margin CAV [dB] | Height [cm] | Angle [deg] |
|-----|-----------------|-----|---------------------|----------------------|---------------|----------------------|-----------------------|---------------------|---------------------|----------------|-----------------|-------------|-------------|
| 1 | 2403.232 | H | 116.3 | 89.6 | -12.5 | 103.8 | 77.1 | 74.0 | 54.0 | -29.8 | -23.1 | 395.0 | 193.6 |
| 2 | 2468.929 | V | 116.7 | 88.3 | -12.2 | 104.5 | 76.1 | 74.0 | 54.0 | -30.5 | -22.1 | 106.0 | 323.8 |
| 3 | 3003.711 | V | 65.7 | 52.2 | -10.2 | 55.5 | 42.0 | 74.0 | 54.0 | 18.5 | 12.0 | 211.0 | 148.0 |
| 4 | 4005.583 | V | 64.4 | 50.8 | -6.7 | 57.7 | 44.1 | 74.0 | 54.0 | 16.3 | 9.9 | 100.0 | 150.8 |
| 5 | 4890.120 | V | 69.4 | 54.1 | -5.6 | 63.8 | 48.5 | 74.0 | 54.0 | 10.2 | 5.5 | 105.0 | 333.3 |
| 6 | 12005.220 | V | 53.8 | 39.4 | 0.0 | 53.8 | 39.4 | 74.0 | 54.0 | 20.2 | 14.6 | 100.0 | 128.4 |



Fundamental Frequency: 2 403.232 MHz, 2 468.929 MHz

◆ Correction(Distance: 3.9 m)

| Frequency [MHz] | (P) | Reading PK [dB(μV)] | Reading CAV [dB(μV)] | c.f [dB(μV/m)] | Result PK [dB(μV/m)] | Result CAV [dB(μV/m)] | Limit PK [dB(μV/m)] | Limit AV [dB(μV/m)] | Margin PK [dB] | Margin CAV [dB] |
|-----------------|-----|---------------------|----------------------|----------------|----------------------|-----------------------|---------------------|---------------------|----------------|-----------------|
| 2403.232 | H | 116.3 | 89.6 | -10.2 | 106.1 | 79.4 | 74.0 | 54.0 | -32.1 | -25.4 |
| 2468.929 | V | 116.7 | 88.3 | -9.9 | 106.8 | 78.4 | 74.0 | 54.0 | -32.8 | -24.4 |
| 3003.711 | V | 65.7 | 52.2 | -7.9 | 57.8 | 44.3 | 74.0 | 54.0 | 16.2 | 9.7 |
| 4005.583 | V | 64.4 | 50.8 | -4.4 | 60.0 | 46.4 | 74.0 | 54.0 | 14.0 | 7.6 |
| 4890.120 | V | 69.4 | 54.1 | -3.3 | 66.1 | 50.8 | 74.0 | 54.0 | 7.9 | 3.2 |
| 12005.220 | V | 53.8 | 39.4 | 2.3 | 56.1 | 41.7 | 74.0 | 54.0 | 17.9 | 12.3 |