


FCC AND ISED SDoC TEST REPORT

FOR

| | | |
|-----------------------------|---|--|
| Applicant | : | LOUD AUDIO, LLC |
| Address | : | 19820 North Creek Parkway, Suite #201, Bothell, WA 98011-8227, USA |
| Equipment under Test | : | Digital Mixer |
| Model No. | : | DL32S, DL16S |
| Trade Mark | : |  |
| Manufacturer | : | LOUD AUDIO, LLC |
| Address | : | 19820 North Creek Parkway, Suite #201, Bothell, WA 98011-8227, USA |

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park,
Dongguan City, Guangdong Province, China, 523808

Tel.: +86-0769-38826678, **E-mail:** ddt@dgddt.com, **http:** //www.dgddt.com

REPORT

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Test Report Declare

| | | |
|-----------------------------|---|---|
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| Model No. | : | DL32S, DL16S |
| Trade Mark | : |  |
| Manufacturer | : | LOUD AUDIO, LLC |
| Address | : | 19820 North Creek Parkway, Suite #201, Bothell, WA 98011-8227, USA |

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart B, ICES-003 Issue 7

Test Procedure Used:

ANSI C63.4-2014, ANSI C63.4a-2017, ICES-GEN Issue 1

We Declare:

The equipment described above is tested by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC and ISED standards.

| | | | |
|-------------------------|--------------------|----------------------|-------------------------------|
| Report No.: | DDT-R20102021-1E01 | | |
| Date of Receipt: | Oct. 23, 2020 | Date of Test: | Oct. 23, 2020 ~ Feb. 10, 2022 |

Prepared By:

Sincere Luo

Sincere Luo/Engineer

Approved By:



Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision History

| Rev. | Revisions [®] | Issue Date | Revised By |
|------|------------------------|---------------|------------|
| --- | Initial issue | Feb. 10, 2022 | |
| | | | |

1. Summary of Test Results

| Description of Test Item | Standard | Result |
|---|--|--------|
| Conducted disturbance at AC mains terminals | FCC Rules and Regulations Part 15 Subpart B, ICES-003 Issue 7, ANSI C63.4-2014, ANSI C63.4a-2017, ICES-GEN Issue 1 | PASS |
| Radiated disturbance test | FCC Rules and Regulations Part 15 Subpart B, ICES-003 Issue 7, ANSI C63.4-2014, ANSI C63.4a-2017, ICES-GEN Issue 1 | PASS |

2. General Test Information

2.1. Description of EUT

| | |
|--------------------------|---|
| EUT* Name | : Digital Mixer |
| Model Number | : DL32S, DL16S |
| Model Differences | : Both models are identical to each other, except for different model name, output power and number of input channel. |
| EUT function description | : Please reference user manual of this device |
| Power Supply | : DL32S: ~100-240V 50-60Hz 60W DL16S: ~100-240V 50-60Hz 40W |
| EUT Class | : Class A |
| Maximum work frequency | : 2480MHz |
| Sample Type | : Series production |
| Serial Number | : N/A |

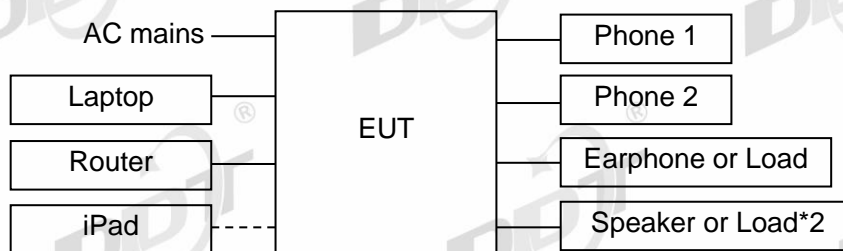
Note: EUT is the abbreviation of equipment under test.

2.2. Accessories of EUT

| Accessories | Manufacturer | Model number | Description |
|-------------|--------------|--------------|---------------------------|
| AC cable | N/A | N/A | Length: 1.50m, unshielded |

2.3. Block diagram EUT configuration for test

For mode 1: Mixed input mode:



Test mode description: Laptop and Phone playing 1 kHz sine audio signal and input to EUT, iPad wireless connection open "Master Fader" APP for control.

Note: According exploration test, adjust the volume of EUT radiated the maximum emissions.

2.4. Decision of final test mode

| | |
|--------------------|--------------------------|
| Conducted Emission | Mode 1: Mixed input mode |
| Radiated emission | Mode 1: Mixed input mode |

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

| | |
|--------------------|-----------|
| Temperature range: | 21-25 °C |
| Humidity range: | 40-75% |
| Pressure range: | 86-106kPa |

2.7. Test laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City,
Guangdong Province, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, G-20118

2.8. Measurement uncertainty

| Test Item | Uncertainty |
|---|--|
| Conducted disturbance at mains terminals | 3.34dB (150KHz-30MHz) |
| Uncertainty for telecommunication port conduction emission test | AAN with aLCL = 55 ... 40 dBc: 3.64 dB AAN with aLCL = 65 ... 50 dBc: 4.08 dB AAN with aLCL = 75 ... 60 dBc: 4.56 dB |
| Uncertainty for Radiation Emission test (30MHz-1GHz) | 4.94 dB (Antenna Polarize: V) 4.68 dB (Antenna Polarize: H) |
| Uncertainty for Radiation disturbance test (1GHz to 40GHz) | 4.10 dB(1-6GHz) 4.40 dB (6GHz-18GHz) 4.58 dB (18GHz-40GHz) |
| Temperature | 0.4 °C |
| Humidity | 2% |
| Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. | |

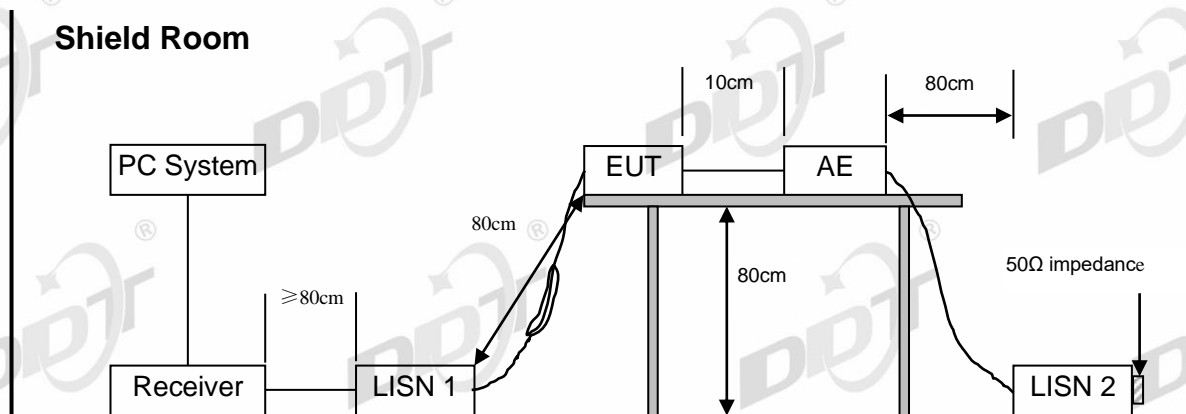
3. Conducted Emission Test Report

3.1. Test equipment

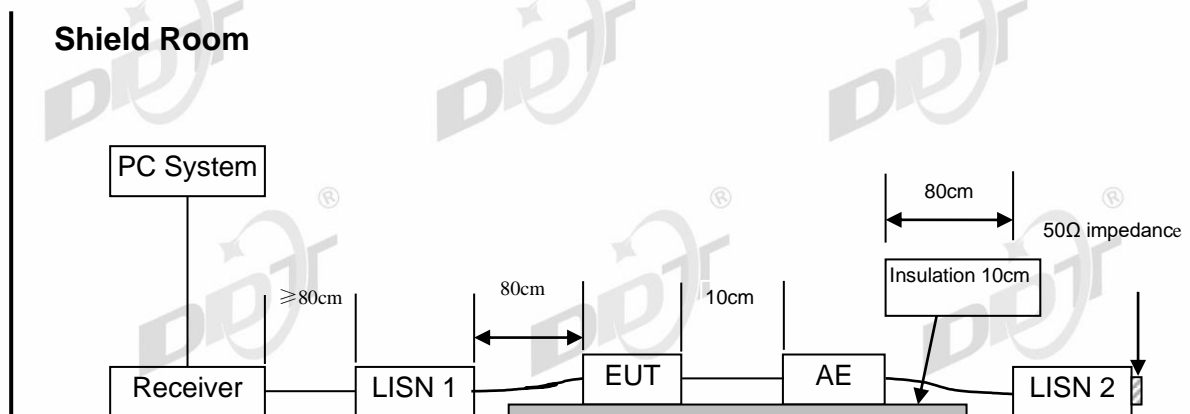
| Equipment | Manufacturer | Model No. ® | Serial No. | Last Cal. ® | Cal. Interval |
|-------------------------|--------------|-------------|------------|---------------|---------------|
| ☑ 1# Conducted emission | | | | | |
| Test Receiver | R&S | ESCI | 100551 | Sep. 24, 2020 | 1 Year |
| LISN 1 | R&S | ENV216 | 101109 | Sep. 28, 2020 | 1 Year |
| LISN 2 | R&S | ESH2-Z5 | 100309 | Sep. 28, 2020 | 1 Year |
| Pulse Limiter | R&S | ESH3-Z2 | 101242 | Sep. 24, 2020 | 1 Year |
| CE Cable 1 | HUBSER | N/A | W10.01 | Sep. 24, 2020 | 1 Year |
| Test software | Audix | E3 | V 6.11111b | N/A | N/A |

3.2. Block diagram of test setup

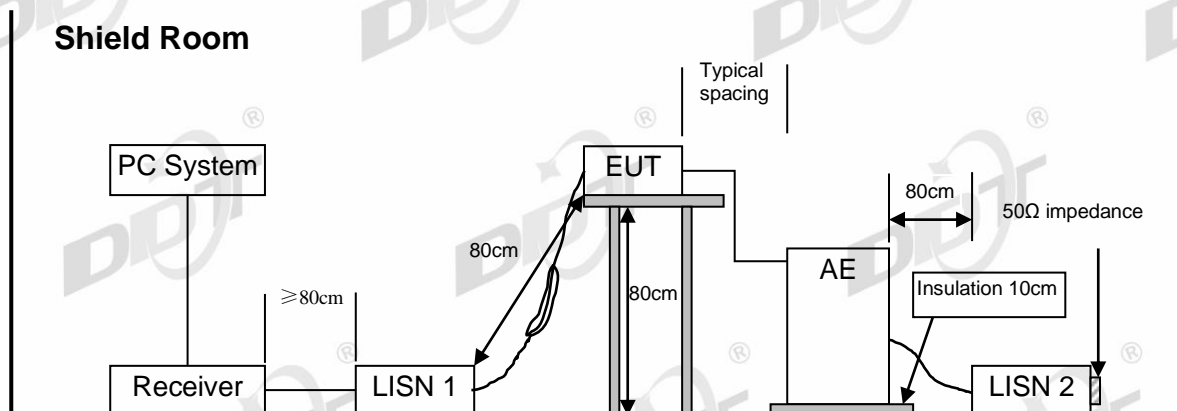
For table-top equipment



For floor standing equipment



Shield Room



Class A

| Frequency | Quasi-Peak Level dB(μ V) | Average Level dB(μ V) |
|-------------------|-------------------------------|----------------------------|
| 150 kHz ~ 500 kHz | 79 | 66 |
| 500 kHz ~ 30 MHz | 73 | 60 |

| Frequency | Quasi-Peak Level dB(μV) | Average Level dB(μV) |
|-------------------|-------------------------|----------------------|
| 150 kHz ~ 500 kHz | 66 ~ 56* | 56 ~ 46* |
| 500 kHz ~ 5 MHz | 56 | 46 |
| 5 MHz ~ 30 MHz | 60 | 50 |

2. The lower limit shall apply at the transition frequencies.

| Assistant equipment | Manufacturer | Model number | Description | other |
|---------------------|--------------|-------------------|--------------|---|
| Laptop | HP | HP ProBook 445 G6 | 5CD9112VSV | AC Adapter: TPN-CA17, HP Part No.: L25299-002, Input: 100-240V, 50/60Hz, Output: DC 19.5V, 3.33A, 65W |
| iPad | Apple Inc. | A1893 | DMPY577WJF8K | N/A |
| VPN Router | Speed+ | S10 | N/A | N/A |
| Speaker | N/A | N/A | N/A | N/A |
| Phone | Apple Inc. | A1586 | F78NN8QCG5MV | N/A |
| Phone | Apple Inc. | A1586 | F78NN8QCG5MV | N/A |
| Audio cable | N/A | N/A | N/A | Length: 1.00m, unshielded |
| Load | N/A | N/A | N/A | N/A |
| Earphone | N/A | N/A | N/A | N/A |

3.5. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 0.8m (table-top device)/0.1m (floor stand device) above the ground plane.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.3 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

3.6. Test result

PASS. (See below detailed test result)

Note 1: All emissions not reported below are too low against the prescribed limits.

Note 2: "----" means Peak detection; "----" means Average detection.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room

D:\2020 CE report data\Q20102021-1E\20201028 RE.EM6

Test Date : 2020-11-03

Tested By : Junchang Du

EUT : Digital Mixer

Model Number : DL32S

Power Supply : AC 120V/60Hz

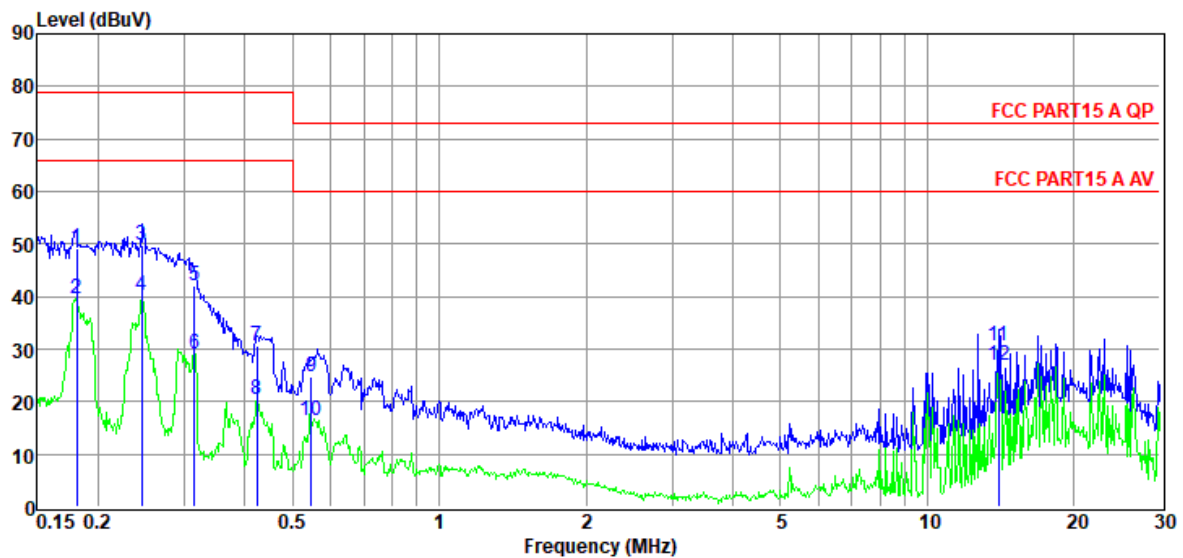
Test Mode : Mixed input mode

Condition : TEMP:24.7°C, RH:52.%, BP:101.4kPa

LISN : 2020 ENV216 1#/LINE

Memo :

Data: 30



| Item | Freq. | Read Level | LISN Factor | Cable Loss | Pulse Limiter Factor | Result Level | Limit Line | Over Limit | Detector | Phase |
|--------|-------|------------|-------------|------------|----------------------|--------------|------------|------------|----------|-------|
| (Mark) | (MHz) | (dBμV) | (dB) | (dB) | (dB) | (dBμV) | (dBμV) | (dB) | | |
| 1 | 0.18 | 29.82 | 9.60 | 0.02 | 9.86 | 49.30 | 79.00 | -29.70 | QP | LINE |
| 2 | 0.18 | 20.14 | 9.60 | 0.02 | 9.86 | 39.62 | 66.00 | -26.38 | Average | LINE |
| 3 | 0.25 | 30.37 | 9.60 | 0.02 | 9.86 | 49.85 | 79.00 | -29.15 | QP | LINE |
| 4 | 0.25 | 20.72 | 9.60 | 0.02 | 9.86 | 40.20 | 66.00 | -25.80 | Average | LINE |
| 5 | 0.31 | 22.66 | 9.60 | 0.02 | 9.86 | 42.14 | 79.00 | -36.86 | QP | LINE |
| 6 | 0.31 | 9.50 | 9.60 | 0.02 | 9.86 | 28.98 | 66.00 | -37.02 | Average | LINE |
| 7 | 0.42 | 11.19 | 9.60 | 0.02 | 9.86 | 30.67 | 79.00 | -48.33 | QP | LINE |
| 8 | 0.42 | 1.02 | 9.60 | 0.02 | 9.86 | 20.50 | 66.00 | -45.50 | Average | LINE |
| 9 | 0.55 | 5.16 | 9.60 | 0.02 | 9.86 | 24.64 | 73.00 | -48.36 | QP | LINE |
| 10 | 0.55 | -3.08 | 9.60 | 0.02 | 9.86 | 16.40 | 60.00 | -43.60 | Average | LINE |
| 11 | 13.99 | 11.11 | 9.60 | 0.13 | 9.91 | 30.75 | 73.00 | -42.25 | QP | LINE |
| 12 | 13.99 | 7.28 | 9.60 | 0.13 | 9.91 | 26.92 | 60.00 | -33.08 | Average | LINE |

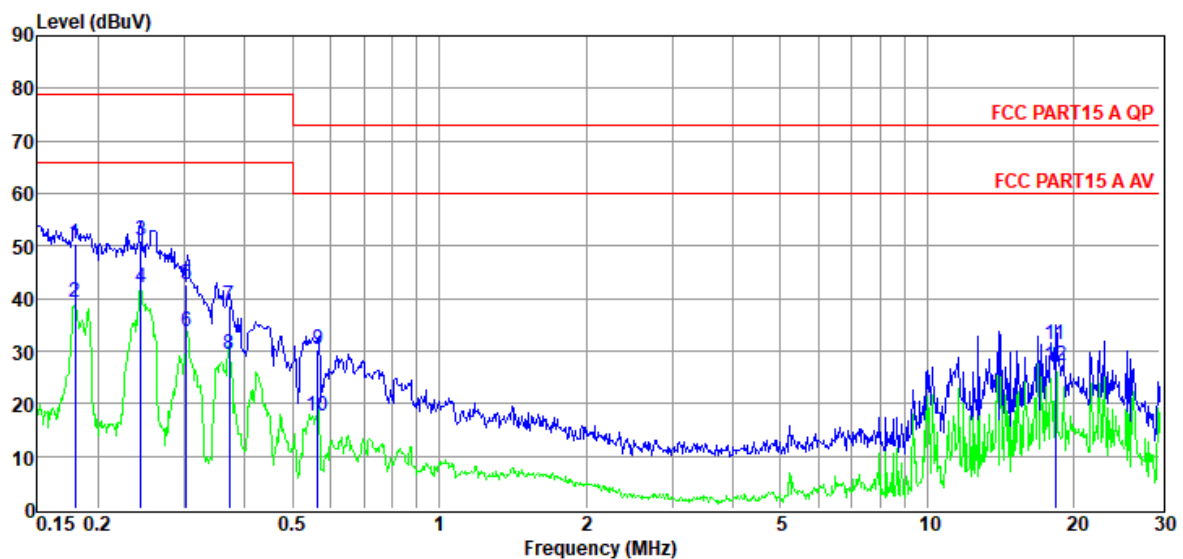
Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room **D:\2020 CE report data\Q20102021-1E\20201028 RE.EM6**
Test Date : 2020-11-03 **Tested By** : Junchang Du
EUT : Digital Mixer **Model Number** : DL32S
Power Supply : AC 120V/60Hz **Test Mode** : Mixed input mode
Condition : TEMP:24.7°C, RH:52.%, BP:101.4kPa **LISN** : 2020 ENV216 1#/NEUTRAL
Memo :

Data: 32



| Item | Freq. | Read Level | LISN Factor | Cable Loss | Pulse Limiter Factor | Result Level | Limit Line | Over Limit | Detector | Phase |
|--------|-------|------------|-------------|------------|----------------------|--------------|------------|------------|----------|---------|
| (Mark) | (MHz) | (dBμV) | (dB) | (dB) | (dB) | (dBμV) | (dBμV) | (dB) | | |
| 1 | 0.18 | 30.94 | 9.60 | 0.02 | 9.86 | 50.42 | 79.00 | -28.58 | QP | NEUTRAL |
| 2 | 0.18 | 19.90 | 9.60 | 0.02 | 9.86 | 39.38 | 66.00 | -26.62 | Average | NEUTRAL |
| 3 | 0.24 | 31.49 | 9.60 | 0.02 | 9.86 | 50.97 | 79.00 | -28.03 | QP | NEUTRAL |
| 4 | 0.24 | 22.56 | 9.60 | 0.02 | 9.86 | 42.04 | 66.00 | -23.96 | Average | NEUTRAL |
| 5 | 0.30 | 23.18 | 9.60 | 0.02 | 9.86 | 42.66 | 79.00 | -36.34 | QP | NEUTRAL |
| 6 | 0.30 | 14.14 | 9.60 | 0.02 | 9.86 | 33.62 | 66.00 | -32.38 | Average | NEUTRAL |
| 7 | 0.37 | 19.31 | 9.60 | 0.02 | 9.86 | 38.79 | 79.00 | -40.21 | QP | NEUTRAL |
| 8 | 0.37 | 9.94 | 9.60 | 0.02 | 9.86 | 29.42 | 66.00 | -36.58 | Average | NEUTRAL |
| 9 | 0.56 | 10.73 | 9.60 | 0.03 | 9.86 | 30.22 | 73.00 | -42.78 | QP | NEUTRAL |
| 10 | 0.56 | -1.94 | 9.60 | 0.03 | 9.86 | 17.55 | 60.00 | -42.45 | Average | NEUTRAL |
| 11 | 18.33 | 11.48 | 9.70 | 0.15 | 9.93 | 31.26 | 73.00 | -41.74 | QP | NEUTRAL |
| 12 | 18.33 | 7.50 | 9.70 | 0.15 | 9.93 | 27.28 | 60.00 | -32.72 | Average | NEUTRAL |

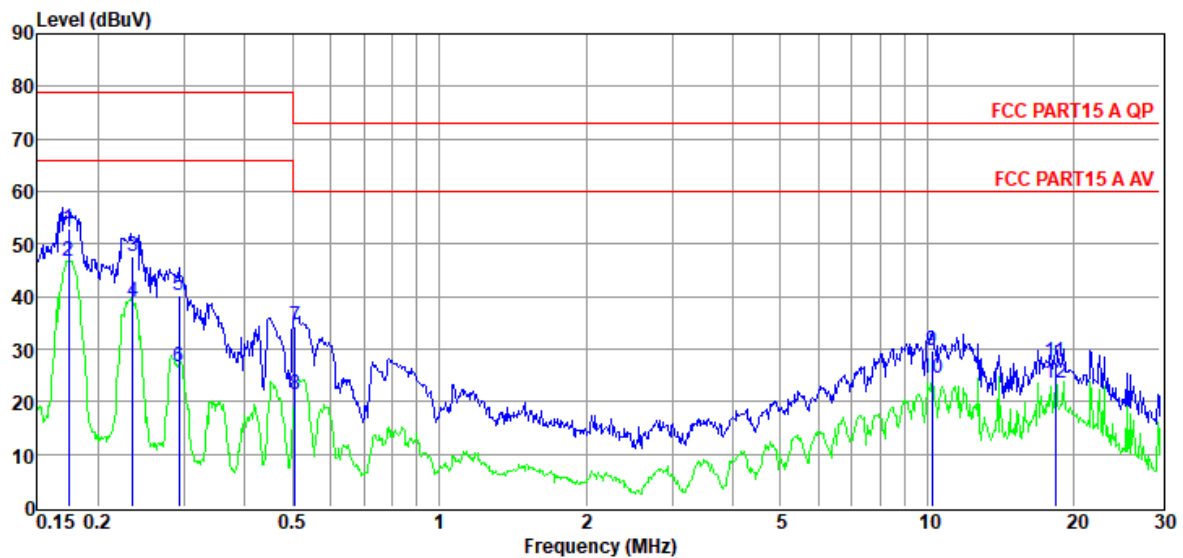
Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room **D:\2020 CE report data\Q20102021-1E\20201028 RE.EM6**
Test Date : 2020-11-02 **Tested By** : Junchang Du
EUT : Digital Mixer **Model Number** : DL32S
Power Supply : AC 240V/50Hz **Test Mode** : Mixed input mode
Condition : TEMP:24.7°C, RH:52.%, BP:101.4kPa **LISN** : 2020 ENV216 1#/NEUTRAL
Memo :

Data: 18



| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | LISN Factor (dB) | Cable Loss (dB) | Pulse Limiter Factor (dB) | Result Level (dBμV) | Limit Line (dBμV) | Over Limit (dB) | Detector | Phase |
|----------------|----------------|-------------------------|------------------------|-----------------------|------------------------------------|---------------------------|-------------------------|-----------------------|----------|---------|
| 1 | 0.17 | 33.30 | 9.60 | 0.01 | 9.86 | 52.77 | 79.00 | -26.23 | QP | NEUTRAL |
| 2 | 0.17 | 27.38 | 9.60 | 0.01 | 9.86 | 46.85 | 66.00 | -19.15 | Average | NEUTRAL |
| 3 | 0.24 | 28.30 | 9.60 | 0.02 | 9.86 | 47.78 | 79.00 | -31.22 | QP | NEUTRAL |
| 4 | 0.24 | 19.53 | 9.60 | 0.02 | 9.86 | 39.01 | 66.00 | -26.99 | Average | NEUTRAL |
| 5 | 0.29 | 20.86 | 9.60 | 0.02 | 9.86 | 40.34 | 79.00 | -38.66 | QP | NEUTRAL |
| 6 | 0.29 | 7.23 | 9.60 | 0.02 | 9.86 | 26.71 | 66.00 | -39.29 | Average | NEUTRAL |
| 7 | 0.51 | 14.98 | 9.60 | 0.02 | 9.86 | 34.46 | 73.00 | -38.54 | QP | NEUTRAL |
| 8 | 0.51 | 1.99 | 9.60 | 0.02 | 9.86 | 21.47 | 60.00 | -38.53 | Average | NEUTRAL |
| 9 | 10.23 | 10.00 | 9.61 | 0.11 | 9.89 | 29.61 | 73.00 | -43.39 | QP | NEUTRAL |
| 10 | 10.23 | 4.79 | 9.61 | 0.11 | 9.89 | 24.40 | 60.00 | -35.60 | Average | NEUTRAL |
| 11 | 18.33 | 7.60 | 9.70 | 0.15 | 9.93 | 27.38 | 73.00 | -45.62 | QP | NEUTRAL |
| 12 | 18.33 | 3.80 | 9.70 | 0.15 | 9.93 | 23.58 | 60.00 | -36.42 | Average | NEUTRAL |

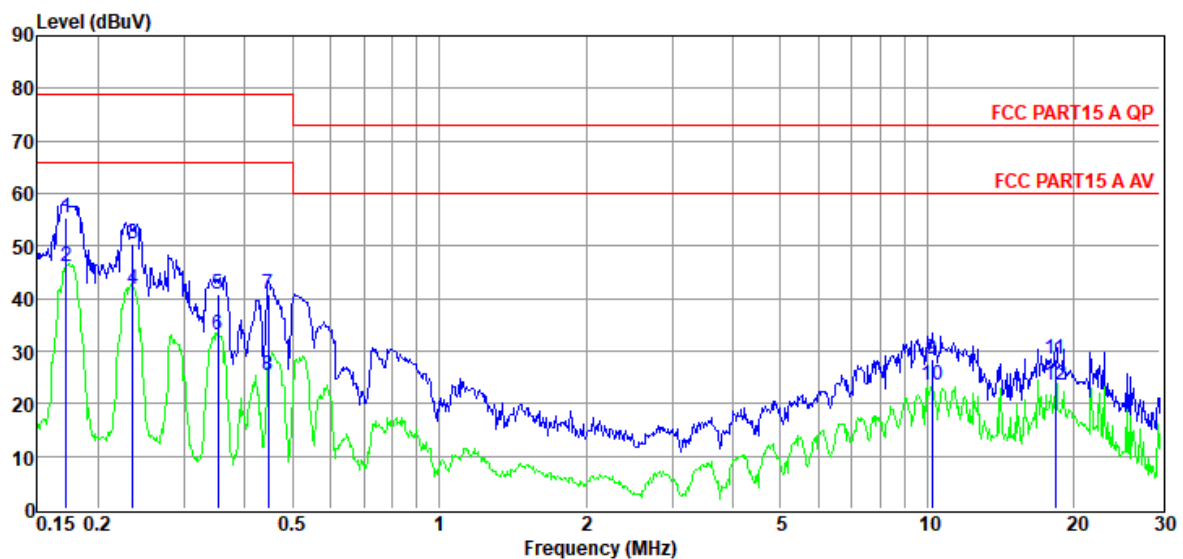
Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room **D:\2020 CE report data\Q20102021-1E\20201028 RE.EM6**
Test Date : 2020-11-02 **Tested By** : Junchang Du
EUT : Digital Mixer **Model Number** : DL32S
Power Supply : AC 240V/50Hz **Test Mode** : Mixed input mode
Condition : TEMP:24.7°C, RH:52.%, BP:101.4kPa **LISN** : 2020 ENV216 1#/LINE
Memo :

Data: 20



| Item | Freq. | Read Level | LISN Factor | Cable Loss | Pulse Limiter Factor | Result Level | Limit Line | Over Limit | Detector | Phase |
|--------|-------|------------|-------------|------------|----------------------|--------------|------------|------------|----------|-------|
| (Mark) | (MHz) | (dBμV) | (dB) | (dB) | (dB) | (dBμV) | (dBμV) | (dB) | | |
| 1 | 0.17 | 35.74 | 9.60 | 0.01 | 9.86 | 55.21 | 79.00 | -23.79 | QP | LINE |
| 2 | 0.17 | 26.60 | 9.60 | 0.01 | 9.86 | 46.07 | 66.00 | -19.93 | Average | LINE |
| 3 | 0.24 | 30.82 | 9.60 | 0.02 | 9.86 | 50.30 | 79.00 | -28.70 | QP | LINE |
| 4 | 0.24 | 22.38 | 9.60 | 0.02 | 9.86 | 41.86 | 66.00 | -24.14 | Average | LINE |
| 5 | 0.35 | 21.35 | 9.60 | 0.02 | 9.86 | 40.83 | 79.00 | -38.17 | QP | LINE |
| 6 | 0.35 | 13.65 | 9.60 | 0.02 | 9.86 | 33.13 | 66.00 | -32.87 | Average | LINE |
| 7 | 0.45 | 21.41 | 9.60 | 0.02 | 9.86 | 40.89 | 79.00 | -38.11 | QP | LINE |
| 8 | 0.45 | 5.97 | 9.60 | 0.02 | 9.86 | 25.45 | 66.00 | -40.55 | Average | LINE |
| 9 | 10.23 | 8.78 | 9.60 | 0.11 | 9.89 | 28.38 | 73.00 | -44.62 | QP | LINE |
| 10 | 10.23 | 3.75 | 9.60 | 0.11 | 9.89 | 23.35 | 60.00 | -36.65 | Average | LINE |
| 11 | 18.33 | 8.64 | 9.67 | 0.15 | 9.93 | 28.39 | 73.00 | -44.61 | QP | LINE |
| 12 | 18.33 | 3.67 | 9.67 | 0.15 | 9.93 | 23.42 | 60.00 | -36.58 | Average | LINE |

Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room

D:\2020 CE report data\Q20102021-1E\20201028 RE.EM6

Test Date : 2020-11-02

Tested By : Junchang Du

EUT : Digital Mixer

Model Number : DL16S

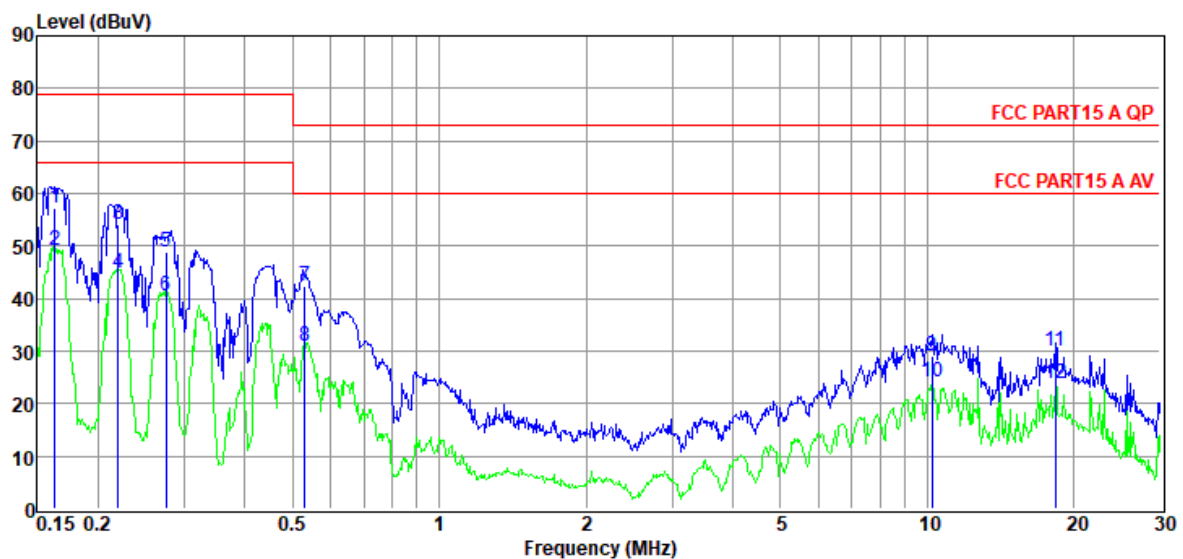
Power Supply : AC 240V/50Hz

Test Mode : Mixed input mode

Condition : TEMP:24.7°C, RH:52.%, BP:101.4kPa **LISN** : 2020 ENV216 1#/LINE

Memo :

Data: 22



| Item | Freq. | Read Level | LISN Factor | Cable Loss | Pulse Limiter Factor | Result Level | Limit Line | Over Limit | Detector | Phase |
|--------|-------|------------|-------------|------------|----------------------|--------------|------------|------------|----------|-------|
| (Mark) | (MHz) | (dBμV) | (dB) | (dB) | (dB) | (dBμV) | (dBμV) | (dB) | | |
| 1 | 0.16 | 37.77 | 9.60 | 0.01 | 9.86 | 57.24 | 79.00 | -21.76 | QP | LINE |
| 2 | 0.16 | 29.79 | 9.60 | 0.01 | 9.86 | 49.26 | 66.00 | -16.74 | Average | LINE |
| 3 | 0.22 | 34.55 | 9.60 | 0.02 | 9.86 | 54.03 | 79.00 | -24.97 | QP | LINE |
| 4 | 0.22 | 25.29 | 9.60 | 0.02 | 9.86 | 44.77 | 66.00 | -21.23 | Average | LINE |
| 5 | 0.28 | 29.53 | 9.60 | 0.02 | 9.86 | 49.01 | 79.00 | -29.99 | QP | LINE |
| 6 | 0.28 | 20.99 | 9.60 | 0.02 | 9.86 | 40.47 | 66.00 | -25.53 | Average | LINE |
| 7 | 0.53 | 22.79 | 9.60 | 0.02 | 9.86 | 42.27 | 73.00 | -30.73 | QP | LINE |
| 8 | 0.53 | 11.57 | 9.60 | 0.02 | 9.86 | 31.05 | 60.00 | -28.95 | Average | LINE |
| 9 | 10.23 | 9.58 | 9.60 | 0.11 | 9.89 | 29.18 | 73.00 | -43.82 | QP | LINE |
| 10 | 10.23 | 4.45 | 9.60 | 0.11 | 9.89 | 24.05 | 60.00 | -35.95 | Average | LINE |
| 11 | 18.33 | 10.26 | 9.67 | 0.15 | 9.93 | 30.01 | 73.00 | -42.99 | QP | LINE |
| 12 | 18.33 | 3.99 | 9.67 | 0.15 | 9.93 | 23.74 | 60.00 | -36.26 | Average | LINE |

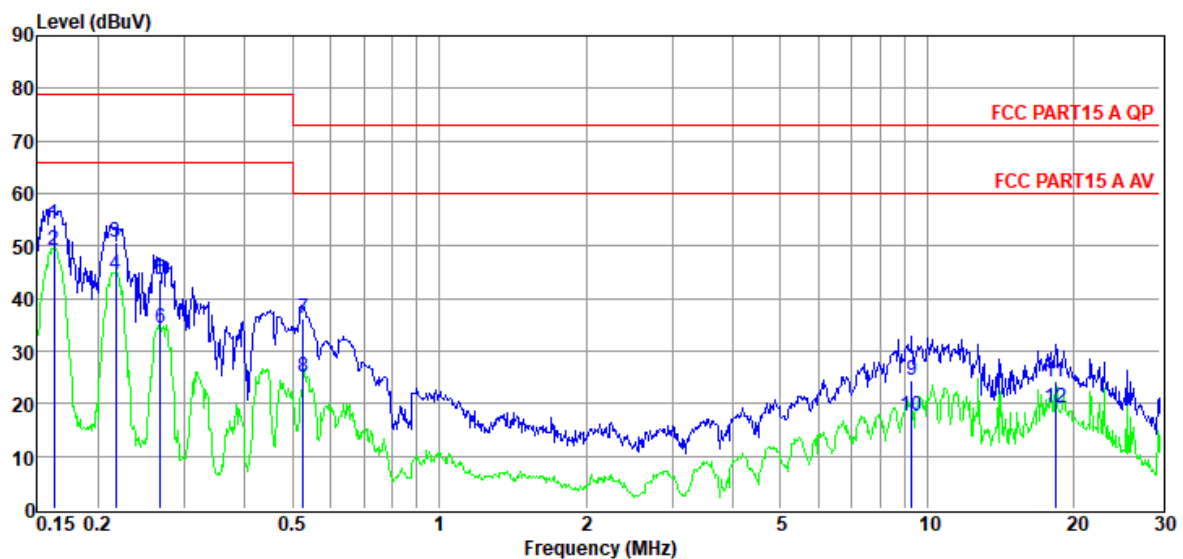
Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room **D:\2020 CE report data\Q20102021-1E\20201028 RE.EM6**
Test Date : 2020-11-02 **Tested By** : Junchang Du
EUT : Digital Mixer **Model Number** : DL16S
Power Supply : AC 240V/50Hz **Test Mode** : Mixed input mode
Condition : TEMP:24.7°C, RH:52.%, BP:101.4kPa **LISN** : 2020 ENV216 1#/NEUTRAL
Memo :

Data: 24



| Item | Freq. | Read Level | LISN Factor | Cable Loss | Pulse Limiter Factor | Result Level | Limit Line | Over Limit | Detector | Phase |
|--------|-------|------------|-------------|------------|----------------------|--------------|------------|------------|----------|---------|
| (Mark) | (MHz) | (dBμV) | (dB) | (dB) | (dB) | (dBμV) | (dBμV) | (dB) | | |
| 1 | 0.16 | 34.64 | 9.60 | 0.01 | 9.86 | 54.11 | 79.00 | -24.89 | QP | NEUTRAL |
| 2 | 0.16 | 29.69 | 9.60 | 0.01 | 9.86 | 49.16 | 66.00 | -16.84 | Average | NEUTRAL |
| 3 | 0.22 | 31.16 | 9.60 | 0.02 | 9.86 | 50.64 | 79.00 | -28.36 | QP | NEUTRAL |
| 4 | 0.22 | 25.10 | 9.60 | 0.02 | 9.86 | 44.58 | 66.00 | -21.42 | Average | NEUTRAL |
| 5 | 0.27 | 24.20 | 9.60 | 0.02 | 9.86 | 43.68 | 79.00 | -35.32 | QP | NEUTRAL |
| 6 | 0.27 | 14.93 | 9.60 | 0.02 | 9.86 | 34.41 | 66.00 | -31.59 | Average | NEUTRAL |
| 7 | 0.53 | 16.80 | 9.60 | 0.02 | 9.86 | 36.28 | 73.00 | -36.72 | QP | NEUTRAL |
| 8 | 0.53 | 5.50 | 9.60 | 0.02 | 9.86 | 24.98 | 60.00 | -35.02 | Average | NEUTRAL |
| 9 | 9.30 | 4.95 | 9.60 | 0.11 | 9.89 | 24.55 | 73.00 | -48.45 | QP | NEUTRAL |
| 10 | 9.30 | -1.90 | 9.60 | 0.11 | 9.89 | 17.70 | 60.00 | -42.30 | Average | NEUTRAL |
| 11 | 18.33 | 4.43 | 9.70 | 0.15 | 9.93 | 24.21 | 73.00 | -48.79 | QP | NEUTRAL |
| 12 | 18.33 | -0.65 | 9.70 | 0.15 | 9.93 | 19.13 | 60.00 | -40.87 | Average | NEUTRAL |

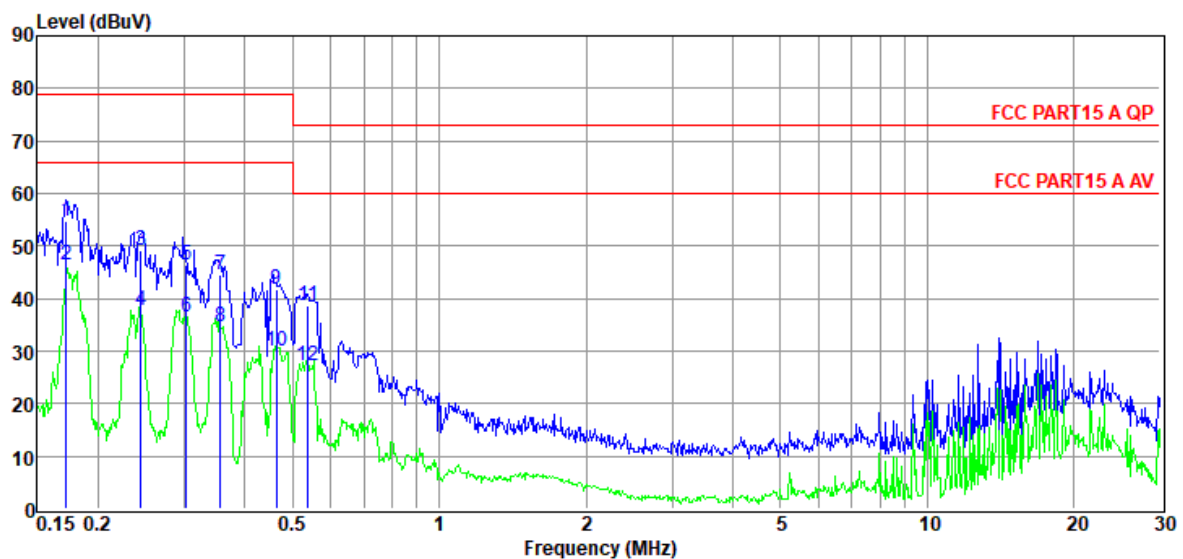
Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room **D:\2020 CE report data\Q20102021-1E\20201028 RE.EM6**
Test Date : 2020-11-03 **Tested By** : Junchang Du
EUT : Digital Mixer **Model Number** : DL16S
Power Supply : AC 120V/60Hz **Test Mode** : Mixed input mode
Condition : TEMP:24.7°C, RH:52.%, BP:101.4kPa **LISN** : 2020 ENV216 1#/NEUTRAL
Memo :

Data: 26



| Item | Freq. | Read Level | LISN Factor | Cable Loss | Pulse Limiter Factor | Result Level | Limit Line | Over Limit | Detector | Phase |
|--------|-------|------------|-------------|------------|----------------------|--------------|------------|------------|----------|---------|
| (Mark) | (MHz) | (dBμV) | (dB) | (dB) | (dB) | (dBμV) | (dBμV) | (dB) | | |
| 1 | 0.17 | 35.38 | 9.60 | 0.01 | 9.86 | 54.85 | 79.00 | -24.15 | QP | NEUTRAL |
| 2 | 0.17 | 26.79 | 9.60 | 0.01 | 9.86 | 46.26 | 66.00 | -19.74 | Average | NEUTRAL |
| 3 | 0.24 | 29.76 | 9.60 | 0.02 | 9.86 | 49.24 | 79.00 | -29.76 | QP | NEUTRAL |
| 4 | 0.24 | 18.29 | 9.60 | 0.02 | 9.86 | 37.77 | 66.00 | -28.23 | Average | NEUTRAL |
| 5 | 0.30 | 26.86 | 9.60 | 0.02 | 9.86 | 46.34 | 79.00 | -32.66 | QP | NEUTRAL |
| 6 | 0.30 | 17.03 | 9.60 | 0.02 | 9.86 | 36.51 | 66.00 | -29.49 | Average | NEUTRAL |
| 7 | 0.36 | 25.13 | 9.60 | 0.02 | 9.86 | 44.61 | 79.00 | -34.39 | QP | NEUTRAL |
| 8 | 0.36 | 15.15 | 9.60 | 0.02 | 9.86 | 34.63 | 66.00 | -31.37 | Average | NEUTRAL |
| 9 | 0.46 | 22.26 | 9.60 | 0.02 | 9.86 | 41.74 | 79.00 | -37.26 | QP | NEUTRAL |
| 10 | 0.46 | 10.46 | 9.60 | 0.02 | 9.86 | 29.94 | 66.00 | -36.06 | Average | NEUTRAL |
| 11 | 0.54 | 19.19 | 9.60 | 0.02 | 9.86 | 38.67 | 73.00 | -34.33 | QP | NEUTRAL |
| 12 | 0.54 | 7.69 | 9.60 | 0.02 | 9.86 | 27.17 | 60.00 | -32.83 | Average | NEUTRAL |

Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

TR-4-E-010 Conducted Emission Test Result

Test Site : DDT 1# Shield Room

D:\2020 CE report data\Q20102021-1E\20201028 RE.EM6

Test Date : 2020-11-03

Tested By : Junchang Du

EUT : Digital Mixer

Model Number : DL16S

Power Supply : AC 120V/60Hz

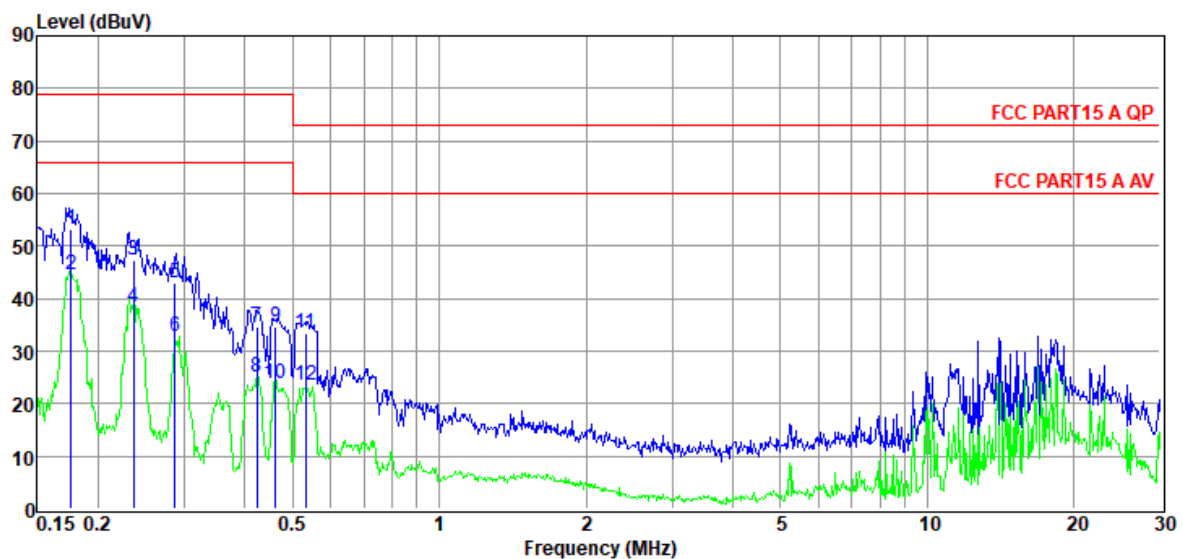
Test Mode : Mixed input mode

Condition : TEMP:24.7°C, RH:52.%, BP:101.4kPa

LISN : 2020 ENV216 1#/LINE

Memo :

Data: 28

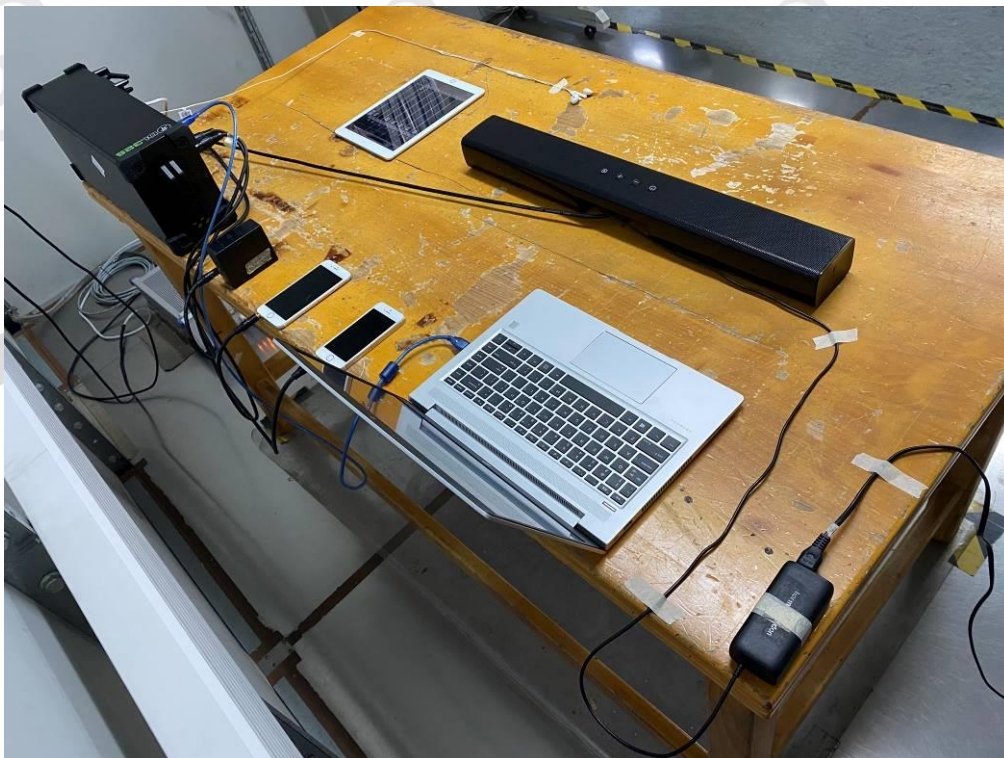


| Item | Freq. | Read Level | LISN Factor | Cable Loss | Pulse Limiter Factor | Result Level | Limit Line | Over Limit | Detector | Phase |
|--------|-------|------------|-------------|------------|----------------------|--------------|------------|------------|----------|-------|
| (Mark) | (MHz) | (dBμV) | (dB) | (dB) | (dB) | (dBμV) | (dBμV) | (dB) | | |
| 1 | 0.18 | 33.71 | 9.60 | 0.01 | 9.86 | 53.18 | 79.00 | -25.82 | QP | LINE |
| 2 | 0.18 | 25.08 | 9.60 | 0.01 | 9.86 | 44.55 | 66.00 | -21.45 | Average | LINE |
| 3 | 0.24 | 27.77 | 9.60 | 0.02 | 9.86 | 47.25 | 79.00 | -31.75 | QP | LINE |
| 4 | 0.24 | 18.80 | 9.60 | 0.02 | 9.86 | 38.28 | 66.00 | -27.72 | Average | LINE |
| 5 | 0.29 | 23.61 | 9.60 | 0.02 | 9.86 | 43.09 | 79.00 | -35.91 | QP | LINE |
| 6 | 0.29 | 13.31 | 9.60 | 0.02 | 9.86 | 32.79 | 66.00 | -33.21 | Average | LINE |
| 7 | 0.42 | 15.16 | 9.60 | 0.02 | 9.86 | 34.64 | 79.00 | -44.36 | QP | LINE |
| 8 | 0.42 | 5.56 | 9.60 | 0.02 | 9.86 | 25.04 | 66.00 | -40.96 | Average | LINE |
| 9 | 0.46 | 15.04 | 9.60 | 0.02 | 9.86 | 34.52 | 79.00 | -44.48 | QP | LINE |
| 10 | 0.46 | 4.23 | 9.60 | 0.02 | 9.86 | 23.71 | 66.00 | -42.29 | Average | LINE |
| 11 | 0.53 | 14.01 | 9.60 | 0.02 | 9.86 | 33.49 | 73.00 | -39.51 | QP | LINE |
| 12 | 0.53 | 4.02 | 9.60 | 0.02 | 9.86 | 23.50 | 60.00 | -36.50 | Average | LINE |

Note:

1. Result Level = Read Level + LISN Factor + Pulse Limiter Factor + Cable loss.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

3.7. Test photo



4. Radiated Emissions Test

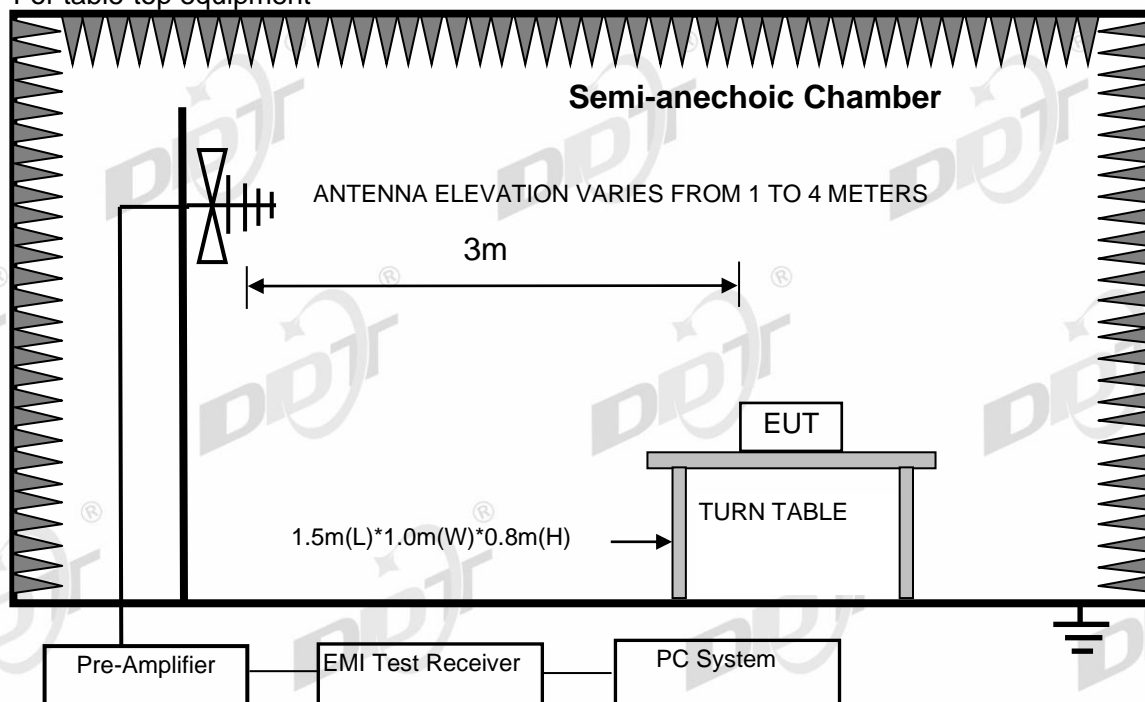
4.1. Test equipment

| Equipment | Manufacturer | Model No. ® | Serial No. | Last Cal. ® | Cal. Interval |
|---|--------------|--------------|-------------------|---------------|---------------|
| <input checked="" type="checkbox"/> 1# Radiation chamber | | | | | |
| EMI Test Receiver | R&S | ESU8 | 100316 | Sep. 02, 2021 | 1 Year |
| Spectrum analyzer | Agilent | E4447A | MY50180031 | Jun. 01, 2021 | 1 Year |
| Trilog Broadband Antenna | Schwarzbeck | VULB9163 | 9163-462 | Nov. 29, 2021 | 1 Year |
| Active Loop antenna | Schwarzbeck | FMZB-1519 | 1519-038 | Sep. 19, 2021 | 1 Year |
| Double Ridged Horn Antenna | R&S | HF907 | 100276 | Sep. 19, 2021 | 1 Year |
| Broad Band Horn Antenna | Schwarzbeck | BBHA 9170 | 790 | May 08, 2021 | 1 Year |
| Pre-amplifier | COM-POWER | PAM-118A | 18040119 | Sep. 09, 2021 | 1 Year |
| RF Cable | HUBSER | CP-X2+ CP-X1 | W11.03+ W12.02 | Sep. 02, 2021 | 1 Year |
| RF Cable | N/A | 5m+6m+1m | 06270619 | Sep. 02, 2021 | 1 Year |
| MI Cable | HUBSER | C10-01-01-1M | 1091629 | Sep. 02, 2021 | 1 Year |
| Test software | Audix | E3 | V 6.11111b | N/A | N/A |
| <input type="checkbox"/> 2# Radiation chamber | | | | | |
| EMI Test Receiver | R&S | ESCI | 101028 | Sep. 02, 2021 | 1 Year |
| Spectrum analyzer | Agilent | E4440A | MY46185770 | Jun. 01, 2021 | 1 Year |
| Trilog Broadband Antenna | Schwarzbeck | VULB 9163 | 9163-994 | Sep. 27, 2021 | 1 Year |
| Trilog Broadband Antenna | Schwarzbeck | VULB 9161 | 9161-4034 | Sep. 19, 2021 | 1 Year |
| Active Loop antenna | Schwarzbeck | FMZB-1519 | 1519-038 | Sep. 19, 2021 | 1 Year |
| Double Ridged Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-2108 | Jul. 17, 2021 | 1 Year |
| Broad Band Horn Antenna | Schwarzbeck | BBHA 9170 | 790 | May 08, 2021 | 1 Year |
| Pre-amplifier | A.H. | PAM-0118 | 18040084 | Sep. 02, 2021 | 1 Year |
| Pre-amplifier | TRLA-MW | TRLA-0040G35 | 101303 | Sep. 02, 2021 | 1 Year |
| RF Cable | MI Cable | RG214-11 | DDT-ZC01497 | Jun. 09, 2021 | 1 Year |
| Test software | Audix | E3 | V 6.11111b | N/A | N/A |
| Notes. N/A means Not applicable. | | | | | |

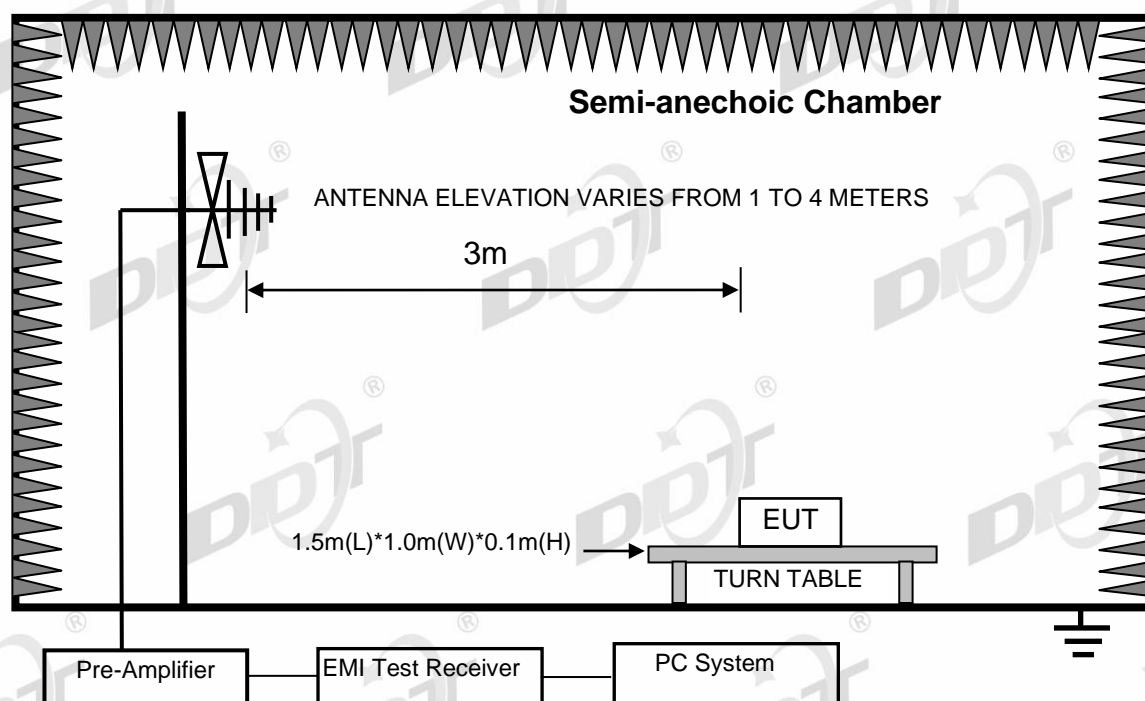
4.2. Block diagram of test setup

Below 1 GHz

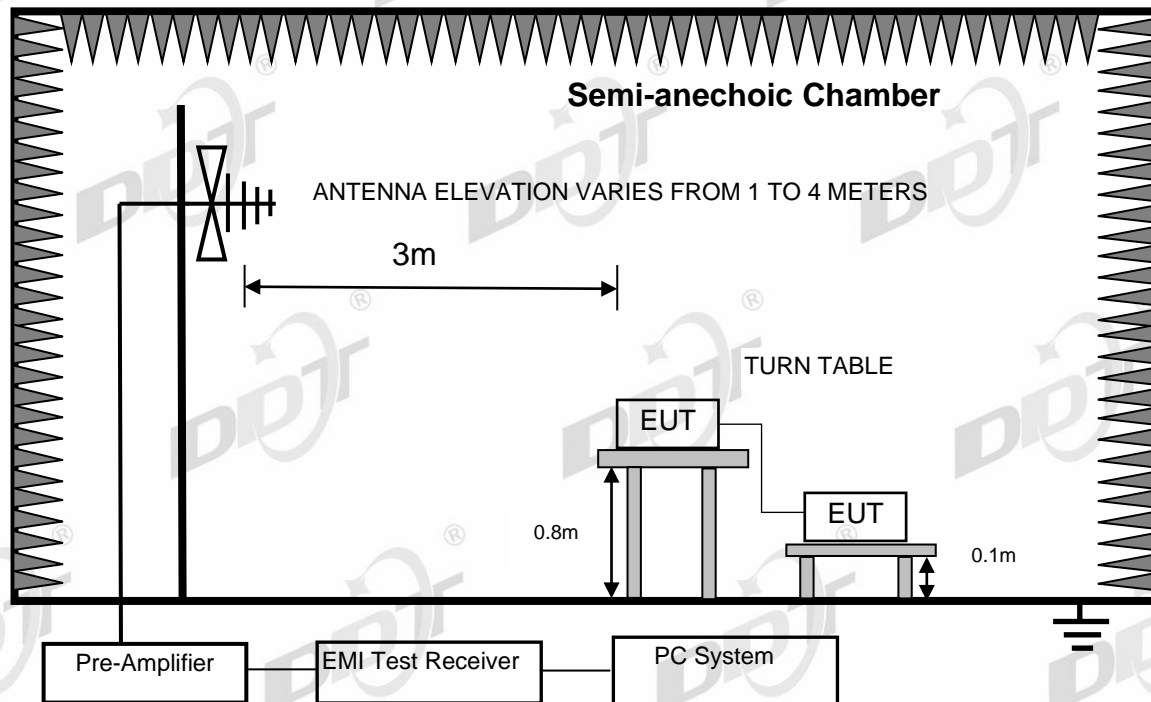
For table-top equipment



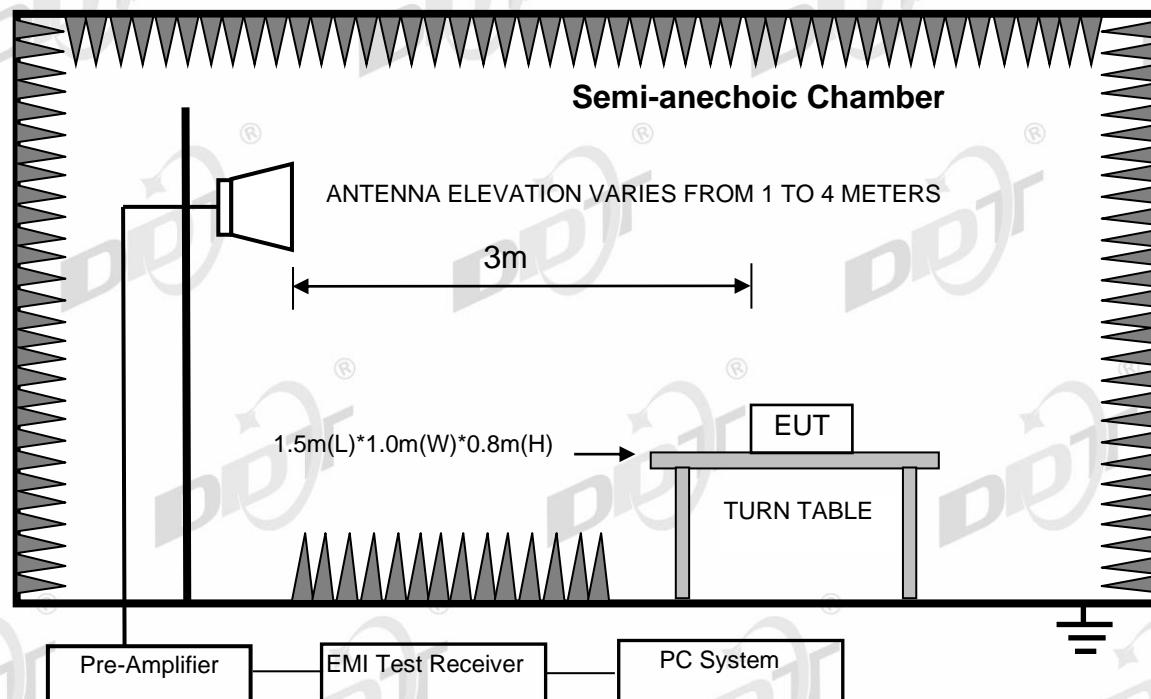
For floor standing equipment



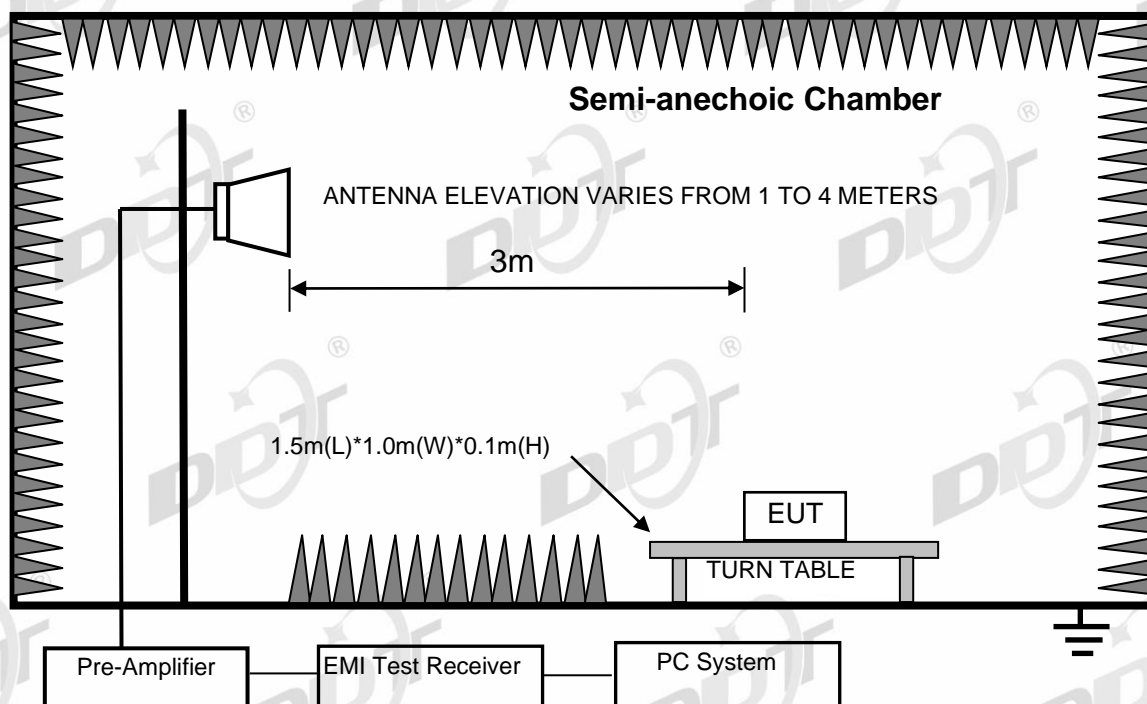
For combinations equipment



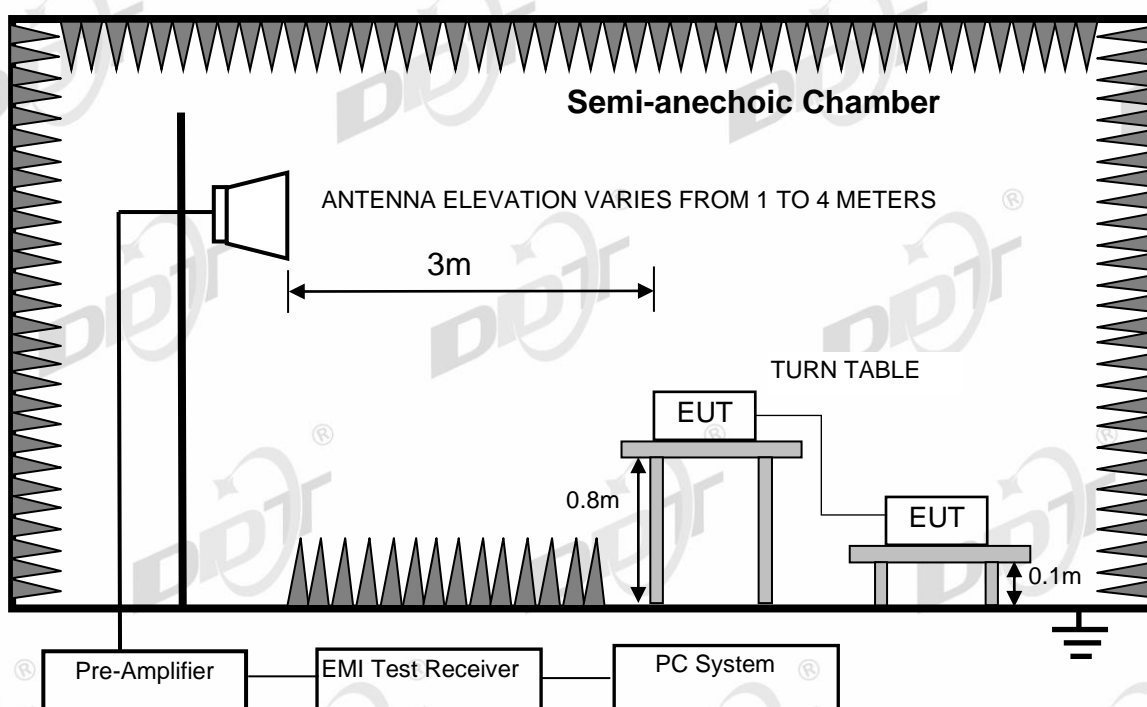
Above 1 GHz
For table-top equipment



For floor standing equipment



For combinations equipment



4.3. Limits

For FCC Rules and Regulations Part 15 Subpart B limits:

| Frequency (MHz) | Class A Field Strengths Limits at 10m measuring distance dB(μ V)/m | Class A Field Strengths Limits at 3m measuring distance dB(μ V)/m | Class B Field Strengths Limits at 10m measuring distance dB(μ V)/m | Class B Field Strengths Limits at 3m measuring distance dB(μ V)/m |
|-----------------|---|--|---|--|
| 30--88 | 39.0 | 49.5 | 29.5 | 40.0 |
| 88--216 | 43.5 | 54.0 | 33.0 | 43.5 |
| 216--960 | 46.4 | 57.0 | 35.5 | 46.0 |
| 960--1000 | 49.5 | 60.0 | 43.5 | 54.0 |
| Above 1000 | / | 80.0 (Peak), 60.0 (Average) | / | 74.0 (Peak), 54.0 (Average) |

For ICES-003 Issue 7 limits:

| Frequency (MHz) | Class A Field Strengths Limits at 10m measuring distance dB(μ V)/m | Class A Field Strengths Limits at 3m measuring distance dB(μ V)/m | Class B Field Strengths Limits at 10m measuring distance dB(μ V)/m | Class B Field Strengths Limits at 3m measuring distance dB(μ V)/m |
|-----------------|---|--|---|--|
| 30--88 | 40.0 | 50.0 | 30.0 | 40.0 |
| 88--216 | 43.5 | 54.0 | 33.1 | 43.5 |
| 216--230 | 46.4 | 56.9 | 35.6 | 46.0 |
| 230--960 | 47.0 | 57.0 | 37.0 | 47.0 |
| 960--1000 | 49.5 | 60.0 | 43.5 | 54.0 |
| Above 1000 | / | 80.0 (Peak), 60.0 (Average) | / | 74.0 (Peak), 54.0 (Average) |

Note: (1) The smaller limit shall apply at the cross point between two frequency bands.

Note: (2) If results comply with the FCC part 15 limits, then they are also comply with the ICES-003 limits.

Note: (3) Test receiver use the Quasi-peak detector for testing in below 1GHz.

4.4. Assistant equipment used for test

| Assistant equipment | Manufacturer | Model number | Description | other |
|---------------------|--------------|-------------------|----------------------------|---|
| Laptop | HP | HP ProBook 445 G6 | 5CD9112VSV | AC Adapter: TPN-CA17, HP Part No.: L25299-002, Input: 100-240V, 50/60Hz, Output: DC 19.5V, 3.33A, 65W |
| iPad | Apple Inc. | A1893 | DMPY577WJF8K | N/A |
| VPN Router | Speed+ | S10 | N/A | N/A |
| Speaker | N/A | N/A | N/A | N/A |
| Phone | SAMSUNG | SM-G9500 | R28M63VA52Z | N/A |
| Phone | XIAOMI | MI 2S | M9615A-CEFWMAZM-2.0.128017 | 5da5ca6 |
| Audio cable | N/A | N/A | N/A | Length: 1.00m, unshielded |
| Load | N/A | N/A | N/A | N/A |
| Earphone | N/A | N/A | N/A | N/A |

4.5. Test Procedure

Procedure of Preliminary Test

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 0.8m (table-top device)/0.1m (floor stand device) above the ground plane.

Configuration EUT to simulate typical usage as described in as shown above block diagram and equipment list of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

Mains cables, telephone lines or other connections to auxiliary equipment located outside the test are shall drape to the floor, be fitted with ferrite clamps or ferrite tubes placed on the floor at the point where the cable reaches the floor and then routed to the place where they leave the turntable. No extension cords shall be used to mains receptacle.

The antenna was placed at 3 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.

The Analyzer / Receiver quickly scanned from 30 MHz to □1 GHz / ☒13 GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

The test mode(s) described in clause 2.3 were scanned during the preliminary test:

After the preliminary scan, we found the test mode producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

Procedure of Final Test

EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.

The Analyzer / Receiver scanned from 30 MHz to □1 GHz / ☒13 GHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the

antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.

For emissions from 30 MHz to 1 GHz, Quasi-Peak values were measured with EMI Receiver and the bandwidth of Receiver is 120 kHz.

For emissions above 1 GHz, both Peak and Average level were measured with Spectrum

Analyzer, and the RBW is set at 1 MHz VBW is set at 3 MHz.®

The test data of the worst-case condition(s) was recorded.

4.6. Test result

PASS. (See below detailed test result)

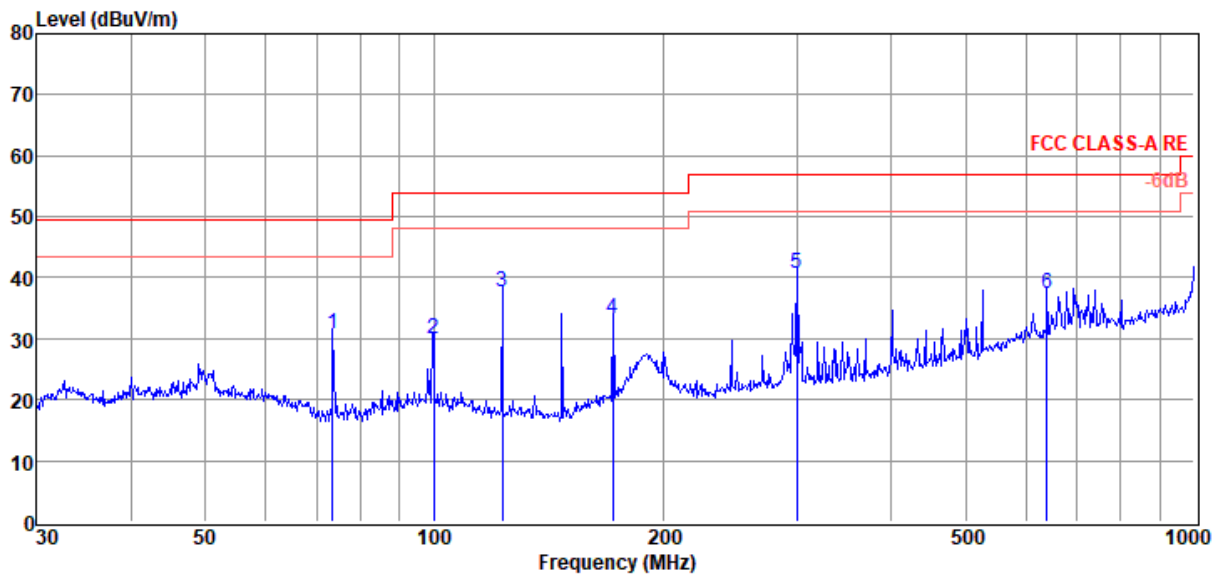
Note 1: All emissions not reported below are too low against the prescribed limits.

Note 2: “----” means Peak detection.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# **D:\2020 RE 1# Report data\Q20102021-1E\20210820RE.EM6**
Test Date : 2021-08-20 **Tested By** : Bote Huang
EUT : Digital Mixer **Model Number** : DL16S
Power Supply : AC 240V/50Hz **Test Mode** : Mixed input mode
Condition : Temp:24.3°C,Humi:51.4%,Press:101.4kPa **Antenna/Distance** : 2021 VULB 9163 #1/3m/VERTICAL
Memo :

Data: 9



| Item (Mark) | Freq. (MHz) | Read Level (dB μ V) | Antenna Factor (dB/m) | Cable Loss dB | Result Level (dB μ V/m) | Limit Line (dB μ V/m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|-------------------------------|-----------------------------|---------------------|-----------------------------------|---------------------------------|-----------------------|----------|--------------|
| 1 | 73.62 | 522.97 | 7.71 | -500.00 | 30.68 | 49.50 | -18.82 | QP | VERTICAL |
| 2 | 99.88 | 518.94 | 11.00 | -500.00 | 29.94 | 54.00 | -24.06 | QP | VERTICAL |
| 3 | 122.83 | 528.92 | 8.72 | -500.00 | 37.64 | 54.00 | -16.36 | QP | VERTICAL |
| 4 | 172.00 | 524.79 | 8.40 | -500.00 | 33.19 | 54.00 | -20.81 | QP | VERTICAL |
| 5 | 300.37 | 527.37 | 13.31 | -500.00 | 40.68 | 56.90 | -16.22 | QP | VERTICAL |
| 6 | 640.61 | 518.04 | 19.32 | -500.00 | 37.36 | 56.90 | -19.54 | QP | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

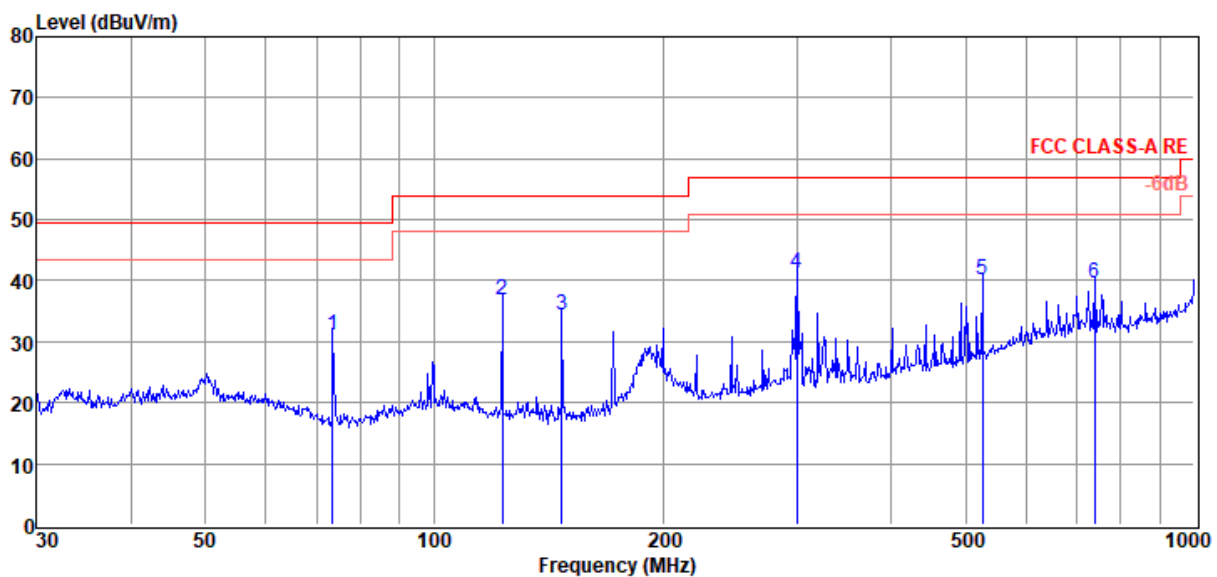
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# **D:\2020 RE 1# Report data\Q20102021-1E\20210820RE.EM6**
Test Date : 2021-08-20 **Tested By** : Bote Huang
EUT : Digital Mixer **Model Number** : DL16S
Power Supply : AC 240V/50Hz **Test Mode** : Mixed input mode
Condition : Temp:24.3°C,Humi:51.4%,Press:101.4kPa **Antenna/Distance** : 2021 VULB 9163 #1/3m/HORIZONTAL

Memo :

Data: 10



| Item (Mark) | Freq. (MHz) | Read Level (dB μ V) | Antenna Factor (dB/m) | Cable Loss dB | Result Level (dB μ V/m) | Limit Line (dB μ V/m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|-------------------------------|-----------------------------|---------------------|-----------------------------------|---------------------------------|-----------------------|----------|--------------|
| 1 | 73.62 | 19.49 | 7.71 | 3.87 | 31.07 | 49.50 | -18.43 | QP | HORIZONTAL |
| 2 | 122.83 | 24.05 | 8.72 | 4.17 | 36.94 | 54.00 | -17.06 | QP | HORIZONTAL |
| 3 | 147.40 | 22.69 | 7.34 | 4.26 | 34.29 | 54.00 | -19.71 | QP | HORIZONTAL |
| 4 | 300.37 | 23.20 | 13.31 | 4.86 | 41.37 | 56.90 | -15.53 | QP | HORIZONTAL |
| 5 | 526.40 | 16.86 | 17.56 | 5.68 | 40.10 | 56.90 | -16.80 | QP | HORIZONTAL |
| 6 | 739.66 | 12.66 | 20.59 | 6.44 | 39.69 | 56.90 | -17.21 | QP | HORIZONTAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

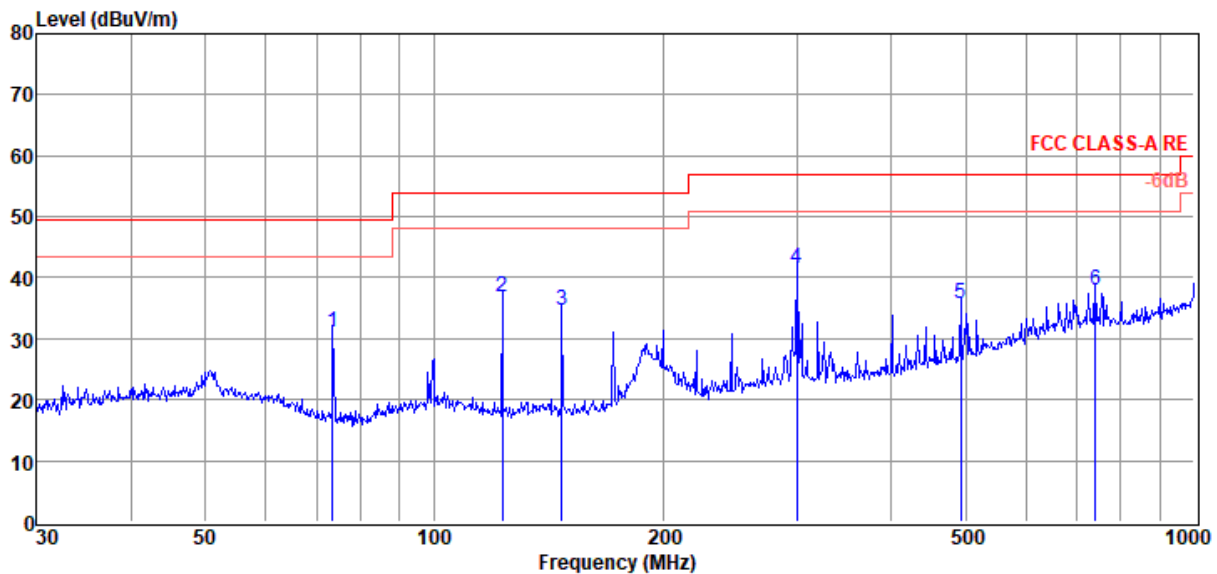
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# **D:\2020 RE 1# Report data\Q20102021-1E\20210820RE.EM6**
Test Date : 2021-08-20 **Tested By** : Bote Huang
EUT : Digital Mixer **Model Number** : DL16S
Power Supply : AC 120V/60Hz **Test Mode** : Mixed input mode
Condition : Temp:24.3°C,Humi:51.4%,Press:101.4kPa **Antenna/Distance** : 2021 VULB 9163 #1/3m/HORIZONTAL
Memo :

Data: 11



| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1 | 73.62 | 19.49 | 7.71 | 3.87 | 31.07 | 49.50 | -18.43 | QP | HORIZONTAL |
| 2 | 122.83 | 23.95 | 8.72 | 4.17 | 36.84 | 54.00 | -17.16 | QP | HORIZONTAL |
| 3 | 147.40 | 23.00 | 7.34 | 4.26 | 34.60 | 54.00 | -19.40 | QP | HORIZONTAL |
| 4 | 300.37 | 23.40 | 13.31 | 4.86 | 41.57 | 56.90 | -15.33 | QP | HORIZONTAL |
| 5 | 492.47 | 13.24 | 16.95 | 5.55 | 35.74 | 56.90 | -21.16 | QP | HORIZONTAL |
| 6 | 742.26 | 10.96 | 20.65 | 6.45 | 38.06 | 56.90 | -18.84 | QP | HORIZONTAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

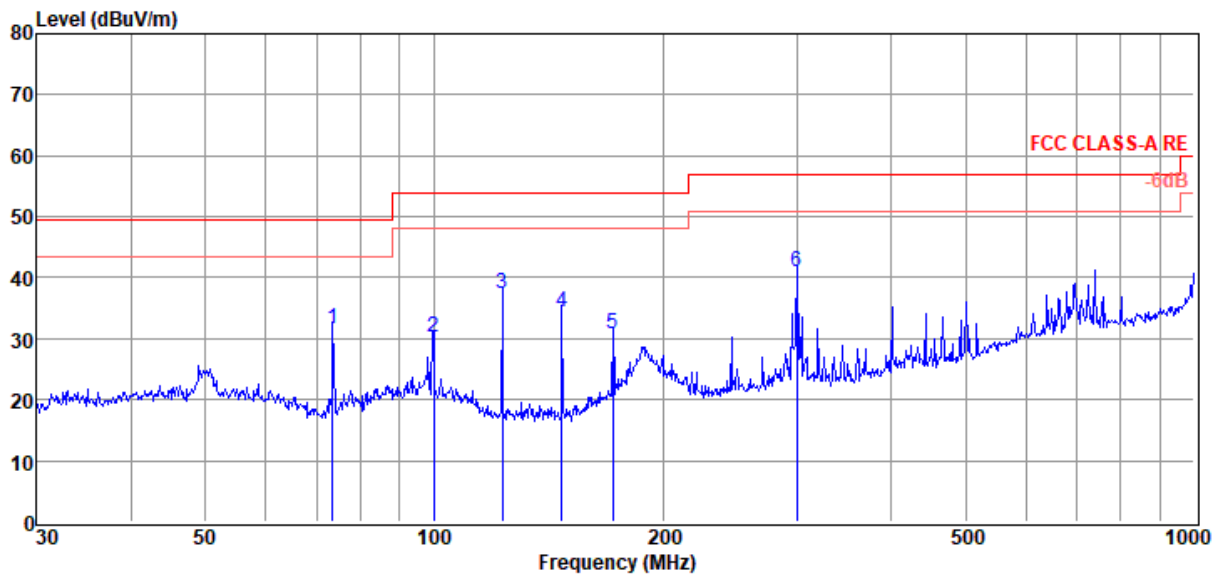
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# **D:\2020 RE 1# Report data\Q20102021-1E\20210820RE.EM6**
Test Date : 2021-08-20 **Tested By** : Bote Huang
EUT : Digital Mixer **Model Number** : DL16S
Power Supply : AC 120V/60Hz **Test Mode** : Mixed input mode
Condition : Temp:24.3°C,Humi:51.4%,Press:101.4kPa **Antenna/Distance** : 2021 VULB 9163 #1/3m/VERTICAL

Memo :

Data: 12



| Item (Mark) | Freq. (MHz) | Read Level (dB μ V) | Antenna Factor (dB/m) | Cable Loss dB | Result Level (dB μ V/m) | Limit Line (dB μ V/m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|-------------------------------|-----------------------------|---------------------|-----------------------------------|---------------------------------|-----------------------|----------|--------------|
| 1 | 73.62 | 20.12 | 7.71 | 3.87 | 31.70 | 49.50 | -17.80 | QP | VERTICAL |
| 2 | 99.88 | 15.25 | 11.00 | 4.08 | 30.33 | 54.00 | -23.67 | QP | VERTICAL |
| 3 | 122.83 | 24.45 | 8.72 | 4.17 | 37.34 | 54.00 | -16.66 | QP | VERTICAL |
| 4 | 147.40 | 22.88 | 7.34 | 4.26 | 34.48 | 54.00 | -19.52 | QP | VERTICAL |
| 5 | 172.00 | 18.16 | 8.40 | 4.36 | 30.92 | 54.00 | -23.08 | QP | VERTICAL |
| 6 | 300.37 | 22.76 | 13.31 | 4.86 | 40.93 | 56.90 | -15.97 | QP | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

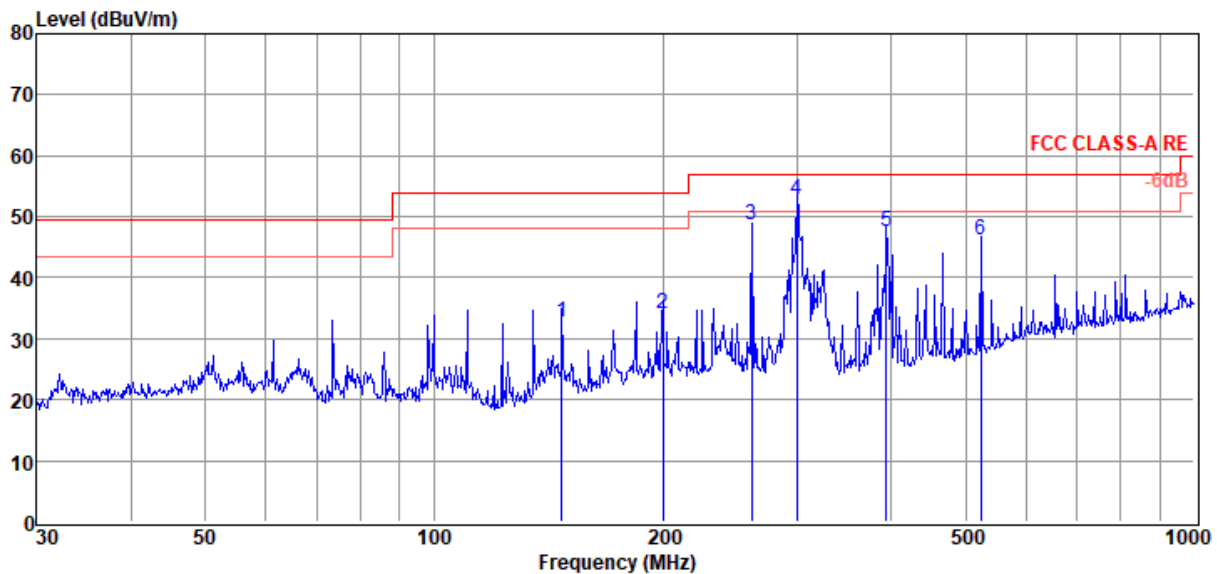
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# **D:\2020 RE 1# Report data\Q20102021-1E\20210820RE.EM6**
Test Date : 2021-08-20 **Tested By** : Bote Huang
EUT : Digital Mixer **Model Number** : DL32S
Power Supply : AC 240V/50Hz **Test Mode** : Mixed input mode
Condition : Temp:24.3°C,Humi:51.4%,Press:101.4kPa **Antenna/Distance** : 2021 VULB 9163 #1/3m/HORIZONTAL

Memo :

Data: 13



| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1 | 147.40 | 21.22 | 7.34 | 4.26 | 32.82 | 54.00 | -21.18 | QP | HORIZONTAL |
| 2 | 199.99 | 18.64 | 11.10 | 4.47 | 34.21 | 54.00 | -19.79 | QP | HORIZONTAL |
| 3 | 261.98 | 31.26 | 12.58 | 4.71 | 48.55 | 56.90 | -8.35 | QP | HORIZONTAL |
| 4 | 300.37 | 34.66 | 13.31 | 4.86 | 52.83 | 56.90 | -4.07 | QP | HORIZONTAL |
| 5 | 393.47 | 26.97 | 15.30 | 5.20 | 47.47 | 56.90 | -9.43 | QP | HORIZONTAL |
| 6 | 524.55 | 23.00 | 17.50 | 5.67 | 46.17 | 56.90 | -10.73 | QP | HORIZONTAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

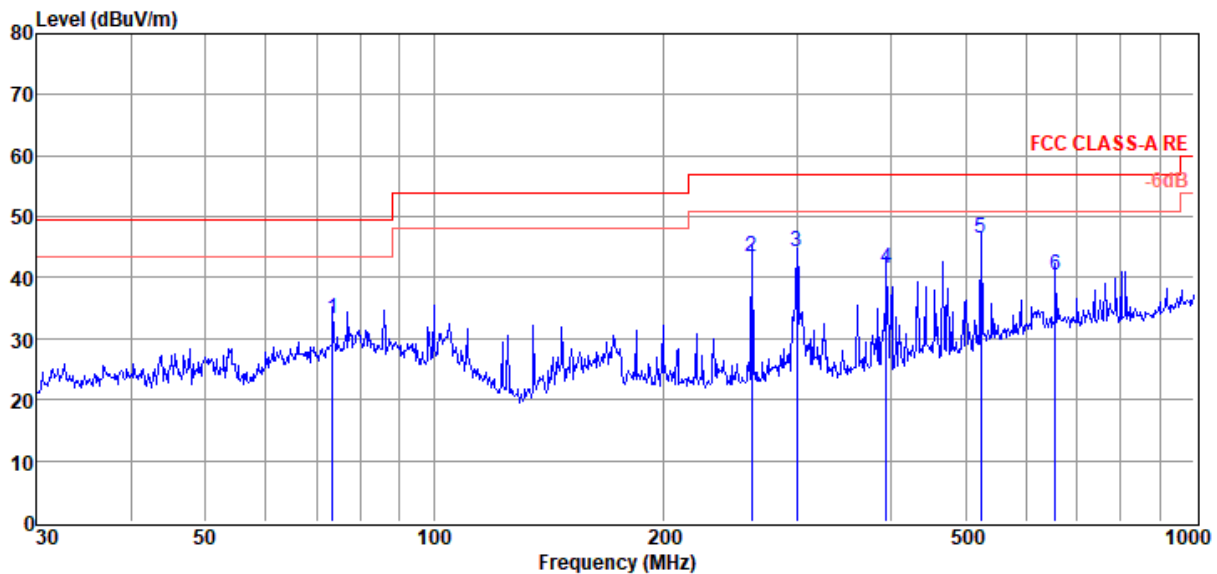
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# **D:\2020 RE 1# Report data\Q20102021-1E\20210820RE.EM6**
Test Date : 2021-08-20 **Tested By** : Bote Huang
EUT : Digital Mixer **Model Number** : DL32S
Power Supply : AC 240V/50Hz **Test Mode** : Mixed input mode
Condition : Temp:24.3°C,Humi:51.4%,Press:101.4kPa **Antenna/Distance** : 2021 VULB 9163 #1/3m/VERTICAL
Memo :

Data: 14



| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss dB | Result Level (dBUV/m) | Limit Line (dBUV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1 | 73.62 | 21.56 | 7.71 | 3.87 | 33.14 | 49.50 | -16.36 | QP | VERTICAL |
| 2 | 261.98 | 26.06 | 12.58 | 4.71 | 43.35 | 56.90 | -13.55 | QP | VERTICAL |
| 3 | 300.37 | 26.16 | 13.31 | 4.86 | 44.33 | 56.90 | -12.57 | QP | VERTICAL |
| 4 | 393.47 | 21.04 | 15.30 | 5.20 | 41.54 | 56.90 | -15.36 | QP | VERTICAL |
| 5 | 524.55 | 23.30 | 17.50 | 5.67 | 46.47 | 56.90 | -10.43 | QP | VERTICAL |
| 6 | 656.53 | 14.72 | 19.50 | 6.14 | 40.36 | 56.90 | -16.54 | QP | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

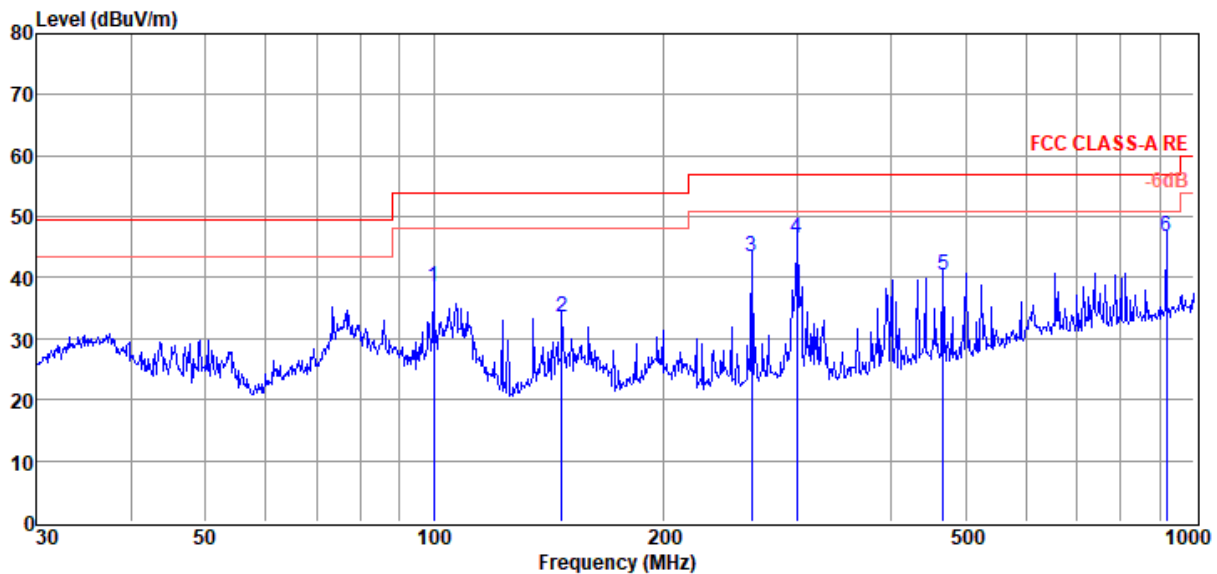
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# **D:\2020 RE 1# Report data\Q20102021-1E\20210820RE.EM6**
Test Date : 2021-08-20 **Tested By** : Bote Huang
EUT : Digital Mixer **Model Number** : DL32S
Power Supply : AC 120V/60Hz **Test Mode** : Mixed input mode
Condition : Temp:24.3°C,Humi:51.4%,Press:101.4kPa **Antenna/Distance** : 2021 VULB 9163 #1/3m/VERTICAL

Memo :

Data: 15



| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1 | 99.88 | 23.40 | 11.00 | 4.08 | 38.48 | 54.00 | -15.52 | QP | VERTICAL |
| 2 | 147.40 | 21.91 | 7.34 | 4.26 | 33.51 | 54.00 | -20.49 | QP | VERTICAL |
| 3 | 261.98 | 26.16 | 12.58 | 4.71 | 43.45 | 56.90 | -13.45 | QP | VERTICAL |
| 4 | 300.37 | 28.36 | 13.31 | 4.86 | 46.53 | 56.90 | -10.37 | QP | VERTICAL |
| 5 | 467.24 | 18.45 | 16.49 | 5.46 | 40.40 | 56.90 | -16.50 | QP | VERTICAL |
| 6 | 919.29 | 17.41 | 22.30 | 7.06 | 46.77 | 56.90 | -10.13 | QP | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

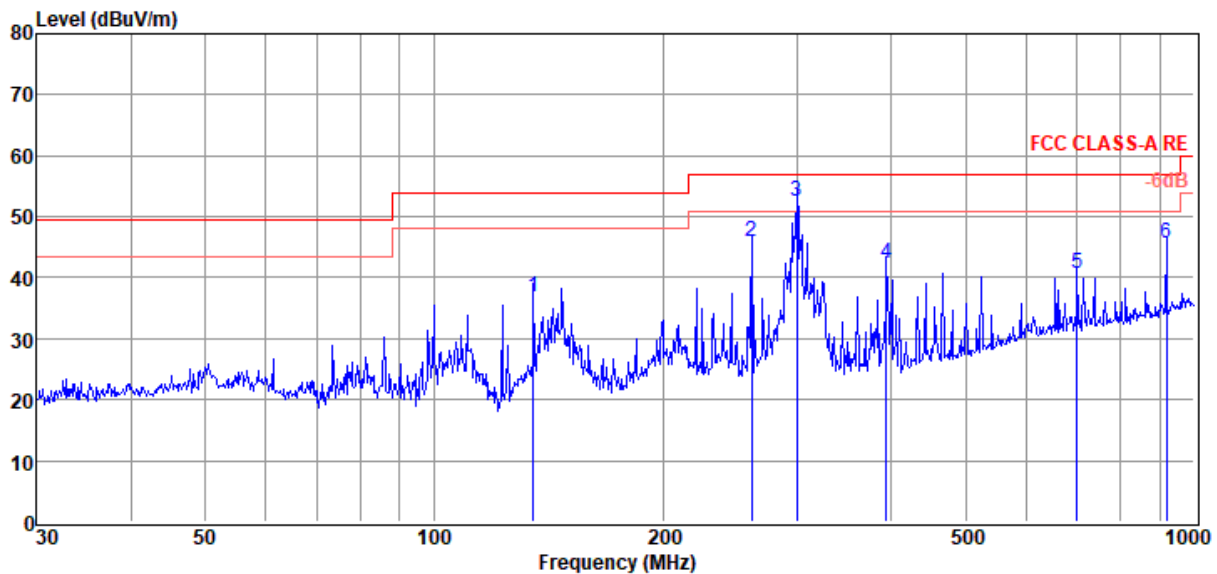
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1# **D:\2020 RE 1# Report data\Q20102021-1E\20210820RE.EM6**
Test Date : 2021-08-20 **Tested By** : Bote Huang
EUT : Digital Mixer **Model Number** : DL32S
Power Supply : AC 120V/60Hz **Test Mode** : Mixed input mode
Condition : Temp:24.3°C,Humi:51.4%,Press:101.4kPa **Antenna/Distance** : 2021 VULB 9163 #1/3m/HORIZONTAL

Memo :

Data: 16



| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1 | 135.03 | 25.20 | 7.49 | 4.22 | 36.91 | 54.00 | -17.09 | QP | HORIZONTAL |
| 2 | 261.98 | 28.69 | 12.58 | 4.71 | 45.98 | 56.90 | -10.92 | QP | HORIZONTAL |
| 3 | 300.37 | 34.46 | 13.31 | 4.86 | 52.63 | 56.90 | -4.27 | QP | HORIZONTAL |
| 4 | 393.47 | 21.85 | 15.30 | 5.20 | 42.35 | 56.90 | -14.55 | QP | HORIZONTAL |
| 5 | 701.76 | 14.37 | 19.90 | 6.31 | 40.58 | 56.90 | -16.32 | QP | HORIZONTAL |
| 6 | 919.29 | 16.38 | 22.30 | 7.06 | 45.74 | 56.90 | -11.16 | QP | HORIZONTAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated emission test (above 1GHz)

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2020 RE 1# Report data\Q20102021-1E\RE-H FCC.EM6

Test Date : 2022-02-09

Tested By : Youbin He

EUT : Digital Mixer

Model Number : DL16S

Power Supply : AC 120V/60Hz

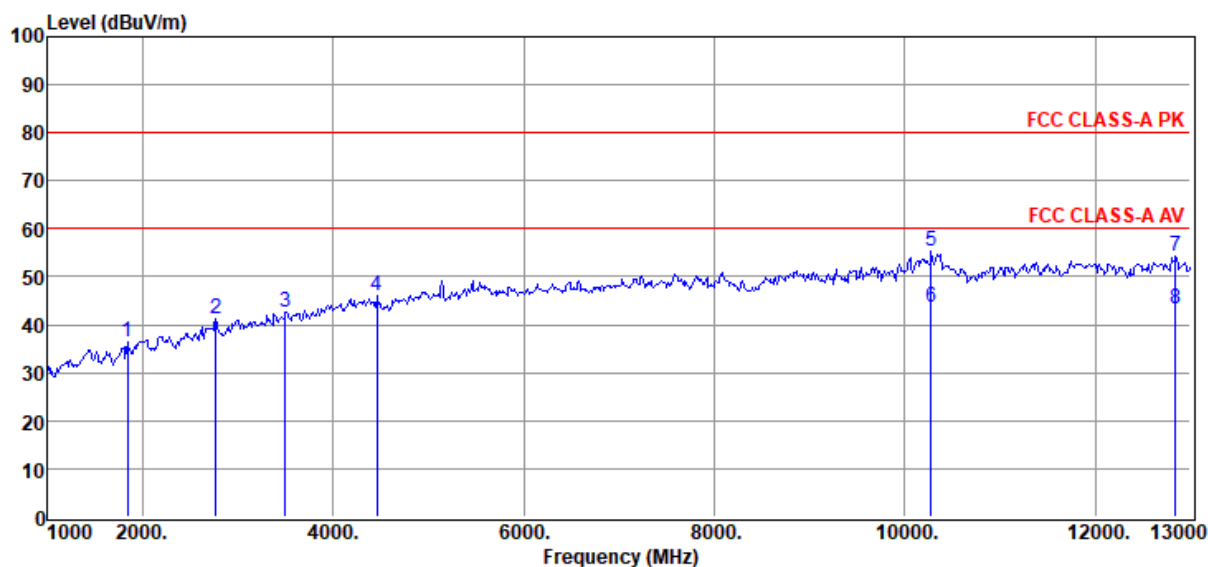
Test Mode : Mixed input mode

Condition : TEMP:23.7°C, RH:56.3%, BP:101.4kPa

Antenna/Distance : 2021 HF907/3m/HORIZONTAL

Memo :

Data: 3



| Item (Mark) | Freq. (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|-------------------------|-----------------------------|---------------------|---------------------|-----------------------------|---------------------------|-----------------------|----------|--------------|
| 1 | 1840.00 | 48.10 | 26.64 | 41.54 | 3.37 | 36.57 | 80.00 | -43.43 | Peak | HORIZONTAL |
| 2 | 2764.00 | 50.15 | 29.42 | 42.74 | 4.25 | 41.08 | 80.00 | -38.92 | Peak | HORIZONTAL |
| 3 | 3496.00 | 49.39 | 31.78 | 43.32 | 4.79 | 42.64 | 80.00 | -37.36 | Peak | HORIZONTAL |
| 4 | 4456.00 | 50.73 | 33.38 | 43.41 | 5.34 | 46.04 | 80.00 | -33.96 | Peak | HORIZONTAL |
| 5 | 10276.00 | 49.69 | 39.98 | 42.53 | 8.05 | 55.19 | 80.00 | -24.81 | Peak | HORIZONTAL |
| 6 | 10276.00 | 38.26 | 39.98 | 42.53 | 8.05 | 43.76 | 60.00 | -16.24 | Average | HORIZONTAL |
| 7 | 12844.00 | 48.11 | 38.04 | 41.90 | 9.90 | 54.15 | 80.00 | -25.85 | Peak | HORIZONTAL |
| 8 | 12844.00 | 37.15 | 38.04 | 41.90 | 9.90 | 43.19 | 60.00 | -16.81 | Average | HORIZONTAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2020 RE 1# Report data\Q20102021-1E\RE-H FCC.EM6

Test Date : 2022-02-09

Tested By : Youbin He

EUT : Digital Mixer

Model Number : DL16S

Power Supply : AC 120V/60Hz

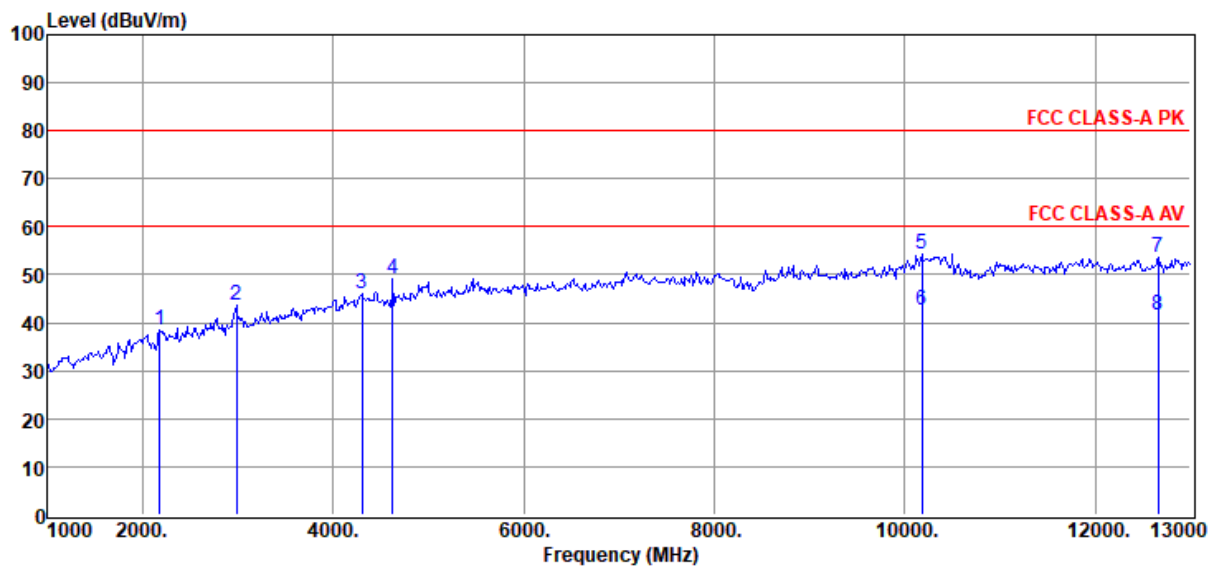
Test Mode : Mixed input mode

Condition : TEMP:23.7°C, RH:56.3%, BP:101.4kPa

Antenna/Distance : 2021 HF907/3m/VERTICAL®

Memo :

Data: 4



| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|----------------------|--------------------------|------------------|------------------|--------------------------|------------------------|--------------------|----------|--------------|
| 1 | 2176.00 | 48.64 | 28.21® | 41.97 | 3.69 | 38.57 | 80.00 | -41.43 | Peak | VERTICAL |
| 2 | 2980.00 | 51.67 | 30.40 | 42.98 | 4.42 | 43.51 | 80.00 | -36.49 | Peak | VERTICAL |
| 3 | 4300.00 | 50.76 | 33.50 | 43.47 | 5.26 | 46.05 | 80.00 | -33.95 | Peak | VERTICAL |
| 4 | 4624.00 | 53.65 | 33.24 | 43.34 | 5.42 | 48.97 | 80.00 | -31.03 | Peak | VERTICAL |
| 5 | 10180.00 | 49.11 | 39.89 | 42.59 | 7.97 | 54.38 | 80.00 | -25.62 | Peak | VERTICAL |
| 6 | 10180.00 | 37.49 | 39.89 | 42.59 | 7.97 | 42.76 | 60.00 | -17.24 | Average | VERTICAL |
| 7 | 12664.00 | 47.92 | 37.66 | 41.90 | 9.81 | 53.49 | 80.00 | -26.51 | Peak | VERTICAL |
| 8 | 12664.00 | 36.17 | 37.66 | 41.90 | 9.81 | 41.74 | 60.00 | -18.26 | Average | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2020 RE 1# Report data\Q20102021-1E\RE-H FCC.EM6

Test Date : 2022-02-09

Tested By : Youbin He

EUT : Digital Mixer

Model Number : DL16S

Power Supply : AC 240V/50Hz

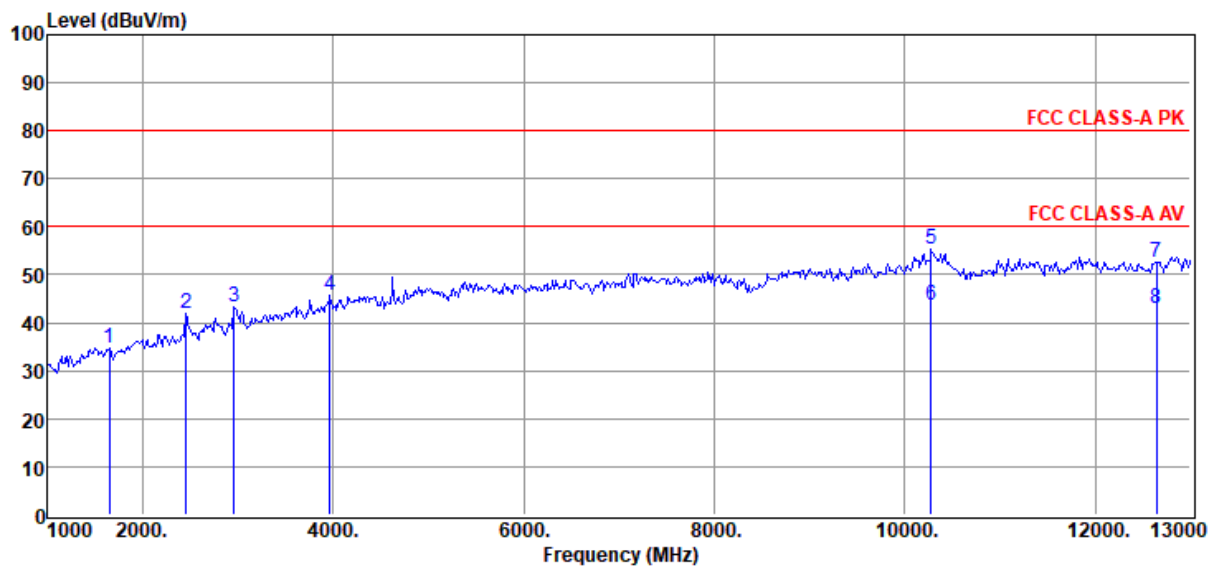
Test Mode : Mixed input mode

Condition : TEMP:23.7°C, RH:56.3%, BP:101.4kPa

Antenna/Distance : 2021 HF907/3m/VERTICAL®

Memo :

Data: 5



| Item (Mark) | Freq. (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|----------------------|--------------------------|------------------|------------------|--------------------------|------------------------|--------------------|----------|--------------|
| 1 | 1648.00 | 46.39 | 26.64® | 41.34 | 3.19 | 34.88 | 80.00 | -45.12 | Peak | VERTICAL |
| 2 | 2452.00 | 51.03 | 29.39 | 42.35 | 3.97 | 42.04 | 80.00 | -37.96 | Peak | VERTICAL |
| 3 | 2956.00 | 51.65 | 30.16 | 42.95 | 4.40 | 43.26 | 80.00 | -36.74 | Peak | VERTICAL |
| 4 | 3964.00 | 51.28 | 32.90 | 43.58 | 5.08 | 45.68 | 80.00 | -34.32 | Peak | VERTICAL |
| 5 | 10276.00 | 49.69 | 39.98 | 42.53 | 8.05 | 55.19 | 80.00 | -24.81 | Peak | VERTICAL |
| 6 | 10276.00 | 38.26 | 39.98 | 42.53 | 8.05 | 43.76 | 60.00 | -16.24 | Average | VERTICAL |
| 7 | 12640.00 | 47.21 | 37.64 | 41.90 | 9.80 | 52.75 | 80.00 | -27.25 | Peak | VERTICAL |
| 8 | 12640.00 | 37.49 | 37.64 | 41.90 | 9.80 | 43.03 | 60.00 | -16.97 | Average | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2020 RE 1# Report data\Q20102021-1E\RE-H FCC.EM6

Test Date : 2022-02-09

Tested By : Youbin He

EUT : Digital Mixer

Model Number : DL16S

Power Supply : AC 240V/50Hz

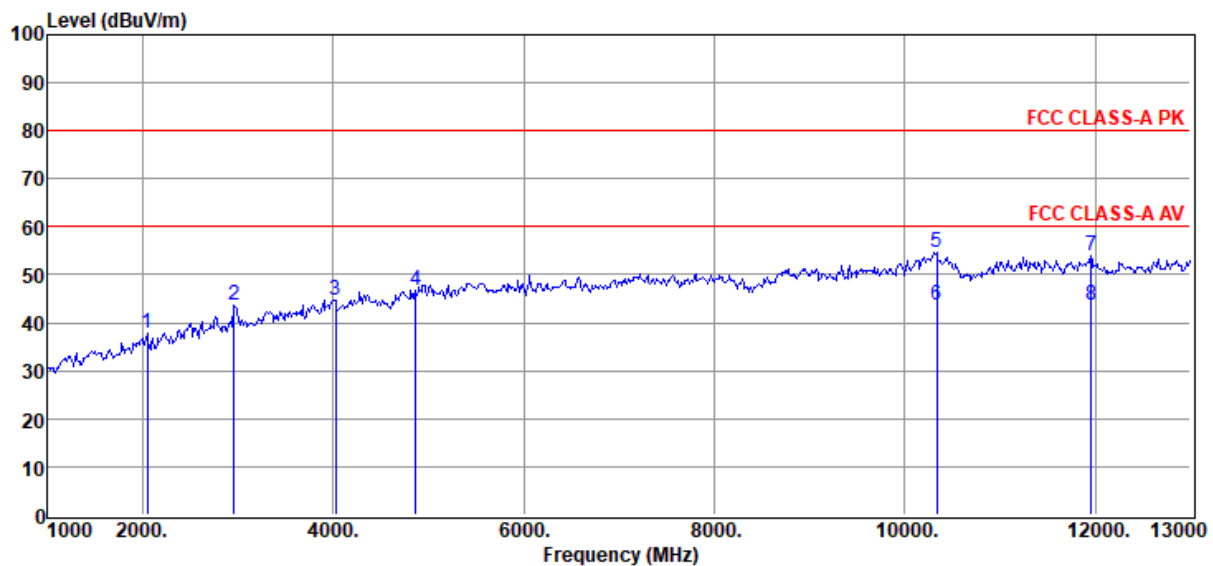
Test Mode : Mixed input mode

Condition : TEMP:23.7°C, RH:56.3%, BP:101.4kPa

Antenna/Distance : 2021 HF907/3m/HORIZONTAL

Memo :

Data: 6



| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|----------------------|--------------------------|------------------|------------------|--------------------------|------------------------|--------------------|----------|--------------|
| 1 | 2044.00 | 48.04 | 28.12 | 41.77 | 3.55 | 37.94 | 80.00 | -42.06 | Peak | HORIZONTAL |
| 2 | 2956.00 | 52.10 | 30.16 | 42.95 | 4.40 | 43.71 | 80.00 | -36.29 | Peak | HORIZONTAL |
| 3 | 4024.00 | 50.36 | 32.80 | 43.59 | 5.11 | 44.68 | 80.00 | -35.32 | Peak | HORIZONTAL |
| 4 | 4864.00 | 50.65 | 33.86 | 43.25 | 5.53 | 46.79 | 80.00 | -33.21 | Peak | HORIZONTAL |
| 5 | 10336.00 | 49.29 | 39.68 | 42.49 | 8.11 | 54.59 | 80.00 | -25.41 | Peak | HORIZONTAL |
| 6 | 10336.00 | 38.31 | 39.68 | 42.49 | 8.11 | 43.61 | 60.00 | -16.39 | Average | HORIZONTAL |
| 7 | 11956.00 | 48.59 | 37.88 | 41.91 | 9.47 | 54.03 | 80.00 | -25.97 | Peak | HORIZONTAL |
| 8 | 11956.00 | 38.21 | 37.88 | 41.91 | 9.47 | 43.65 | 60.00 | -16.35 | Average | HORIZONTAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2020 RE 1# Report data\Q20102021-1E\RE-H FCC.EM6

Test Date : 2022-02-09

Tested By : Youbin He

EUT : Digital Mixer

Model Number : DL32S

Power Supply : AC 240V/50Hz

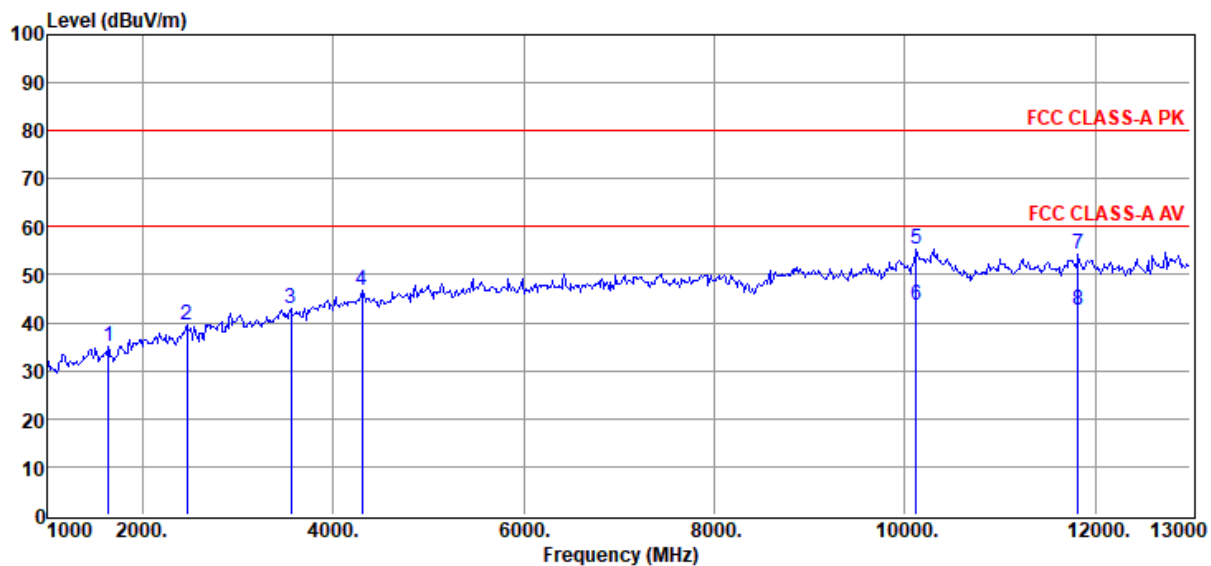
Test Mode : Mixed input mode

Condition : TEMP:23.7°C, RH:56.3%, BP:101.4kPa

Antenna/Distance : 2021 HF907/3m/HORIZONTAL

Memo :

Data: 9



| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|----------------------|--------------------------|------------------|------------------|--------------------------|------------------------|--------------------|----------|--------------|
| 1 | 1636.00 | 46.98 | 26.31® | 41.32 | 3.18 | 35.15 | 80.00 | -44.85 | Peak | HORIZONTAL |
| 2 | 2464.00 | 48.60 | 29.32 | 42.37 | 3.98 | 39.53 | 80.00 | -40.47 | Peak | HORIZONTAL |
| 3 | 3556.00 | 49.45 | 31.88 | 43.35 | 4.83 | 42.81 | 80.00 | -37.19 | Peak | HORIZONTAL |
| 4 | 4300.00 | 51.28 | 33.50 | 43.47 | 5.26 | 46.57 | 80.00 | -33.43 | Peak | HORIZONTAL |
| 5 | 10120.00 | 50.24 | 39.84 | 42.62 | 7.91 | 55.37 | 80.00 | -24.63 | Peak | HORIZONTAL |
| 6 | 10120.00 | 38.41 | 39.84 | 42.62 | 7.91 | 43.54 | 60.00 | -16.46 | Average | HORIZONTAL |
| 7 | 11824.00 | 49.08 | 37.95 | 41.93 | 9.36 | 54.46 | 80.00 | -25.54 | Peak | HORIZONTAL |
| 8 | 11824.00 | 37.26 | 37.95 | 41.93 | 9.36 | 42.64 | 60.00 | -17.36 | Average | HORIZONTAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2020 RE 1# Report data\Q20102021-1E\RE-H FCC.EM6

Test Date : 2022-02-09

Tested By : Youbin He

EUT : Digital Mixer

Model Number : DL32S

Power Supply : AC 240V/50Hz

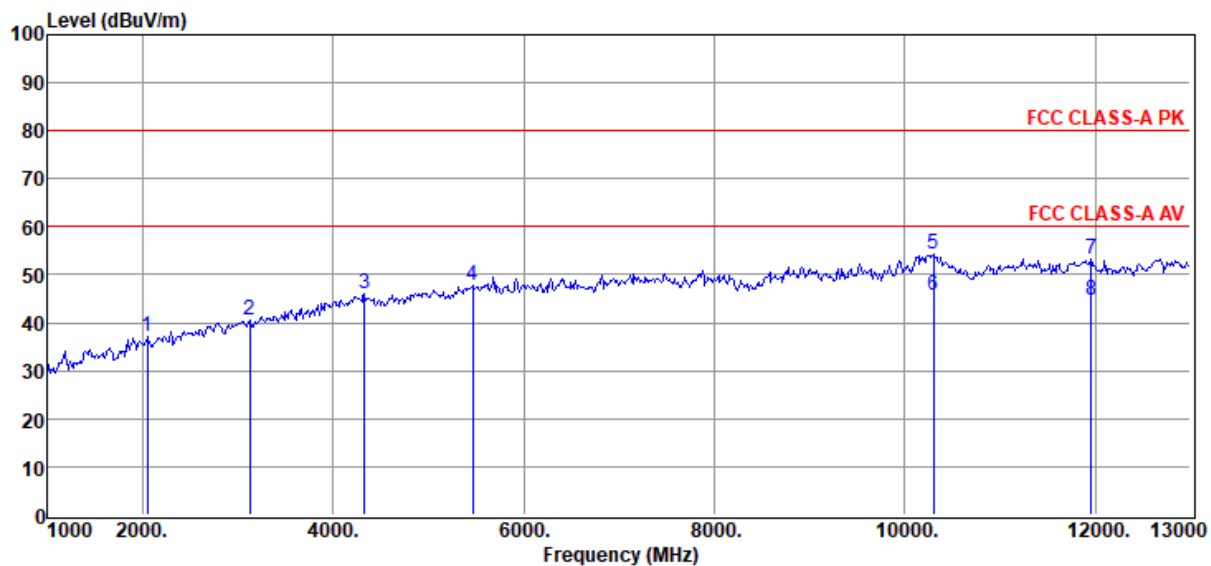
Test Mode : Mixed input mode

Condition : TEMP:23.7°C, RH:56.3%, BP:101.4kPa

Antenna/Distance : 2021 HF907/3m/VERTICAL®

Memo :

Data: 10



| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|----------------------|--------------------------|------------------|------------------|--------------------------|------------------------|--------------------|----------|--------------|
| 1 | 2044.00 | 47.04 | 28.12® | 41.77 | 3.55 | 36.94 | 80.00 | -43.06 | Peak | VERTICAL |
| 2 | 3124.00 | 47.95 | 31.25 | 43.08 | 4.53 | 40.65 | 80.00 | -39.35 | Peak | VERTICAL |
| 3 | 4324.00 | 50.77 | 33.50 | 43.46 | 5.27 | 46.08 | 80.00 | -33.92 | Peak | VERTICAL |
| 4 | 5464.00 | 50.55 | 34.43 | 42.86 | 5.79 | 47.91 | 80.00 | -32.09 | Peak | VERTICAL |
| 5 | 10300.00 | 48.87 | 40.00 | 42.51 | 8.08 | 54.44 | 80.00 | -25.56 | Peak | VERTICAL |
| 6 | 10300.00 | 40.13 | 40.00 | 42.51 | 8.08 | 45.70 | 60.00 | -14.30 | Average | VERTICAL |
| 7 | 11956.00 | 47.74 | 37.88 | 41.91 | 9.47 | 53.18 | 80.00 | -26.82 | Peak | VERTICAL |
| 8 | 11956.00 | 39.11 | 37.88 | 41.91 | 9.47 | 44.55 | 60.00 | -15.45 | Average | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2020 RE 1# Report data\Q20102021-1E\RE-H FCC.EM6

Test Date : 2022-02-09

Tested By : Youbin He

EUT : Digital Mixer

Model Number : DL32S

Power Supply : AC 120V/60Hz

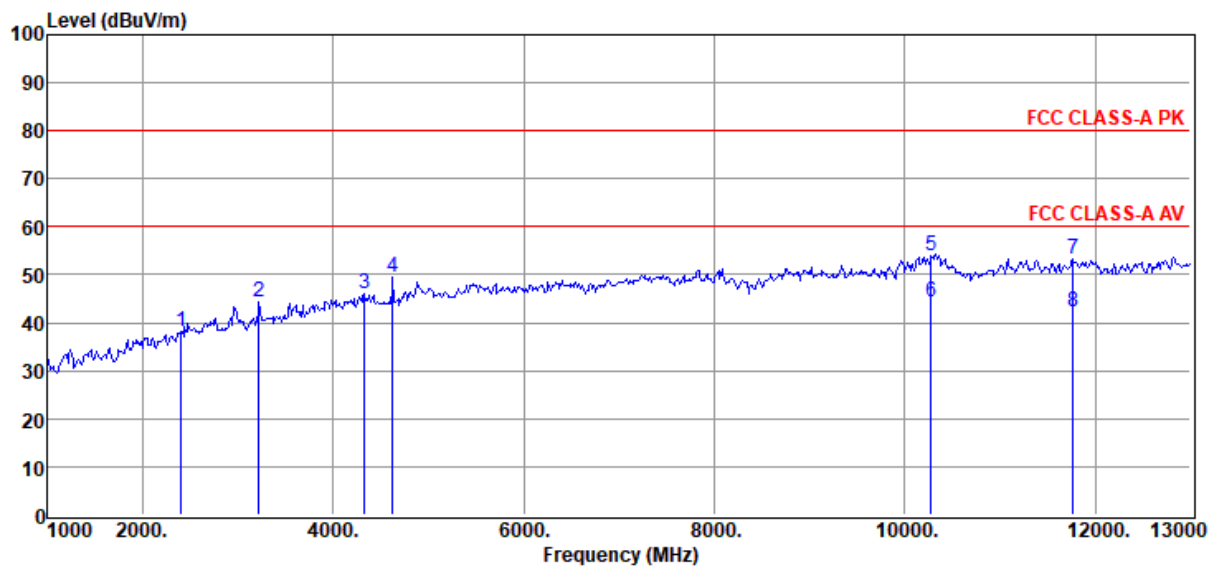
Test Mode : Mixed input mode

Condition : TEMP:23.7°C, RH:56.3%, BP:101.4kPa

Antenna/Distance : 2021 HF907/3m/VERTICAL®

Memo :

Data: 11



| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|----------------------|--------------------------|------------------|------------------|--------------------------|------------------------|--------------------|----------|--------------|
| 1 | 2404.00 | 47.73 | 28.85 | 42.29 | 3.92 | 38.21 | 80.00 | -41.79 | Peak | VERTICAL |
| 2 | 3220.00 | 51.42 | 31.48 | 43.15 | 4.60 | 44.35 | 80.00 | -35.65 | Peak | VERTICAL |
| 3 | 4324.00 | 50.86 | 33.50 | 43.46 | 5.27 | 46.17 | 80.00 | -33.83 | Peak | VERTICAL |
| 4 | 4624.00 | 54.05 | 33.24 | 43.34 | 5.42 | 49.37 | 80.00 | -30.63 | Peak | VERTICAL |
| 5 | 10276.00 | 48.35 | 39.98 | 42.53 | 8.05 | 53.85 | 80.00 | -26.15 | Peak | VERTICAL |
| 6 | 10276.00 | 38.79 | 39.98 | 42.53 | 8.05 | 44.29 | 60.00 | -15.71 | Average | VERTICAL |
| 7 | 11764.00 | 48.06 | 37.90 | 41.95 | 9.31 | 53.32 | 80.00 | -26.68 | Peak | VERTICAL |
| 8 | 11764.00 | 37.17 | 37.90 | 41.95 | 9.31 | 42.43 | 60.00 | -17.57 | Average | VERTICAL |

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Site : DDT 3m Chamber 1#

D:\2020 RE 1# Report data\Q20102021-1E\RE-H FCC.EM6

Test Date : 2022-02-09

Tested By : Youbin He

EUT : Digital Mixer

Model Number : DL32S

Power Supply : AC 120V/60Hz

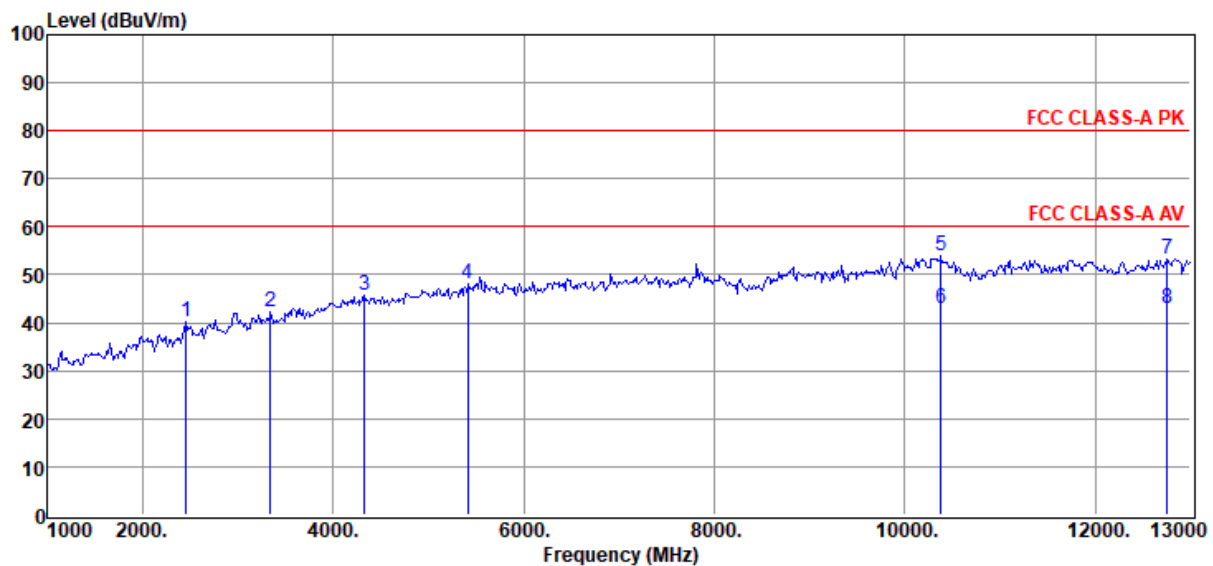
Test Mode : Mixed input mode

Condition : TEMP:23.7°C, RH:56.3%, BP:101.4kPa

Antenna/Distance : 2021 HF907/3m/HORIZONTAL

Memo :

Data: 12



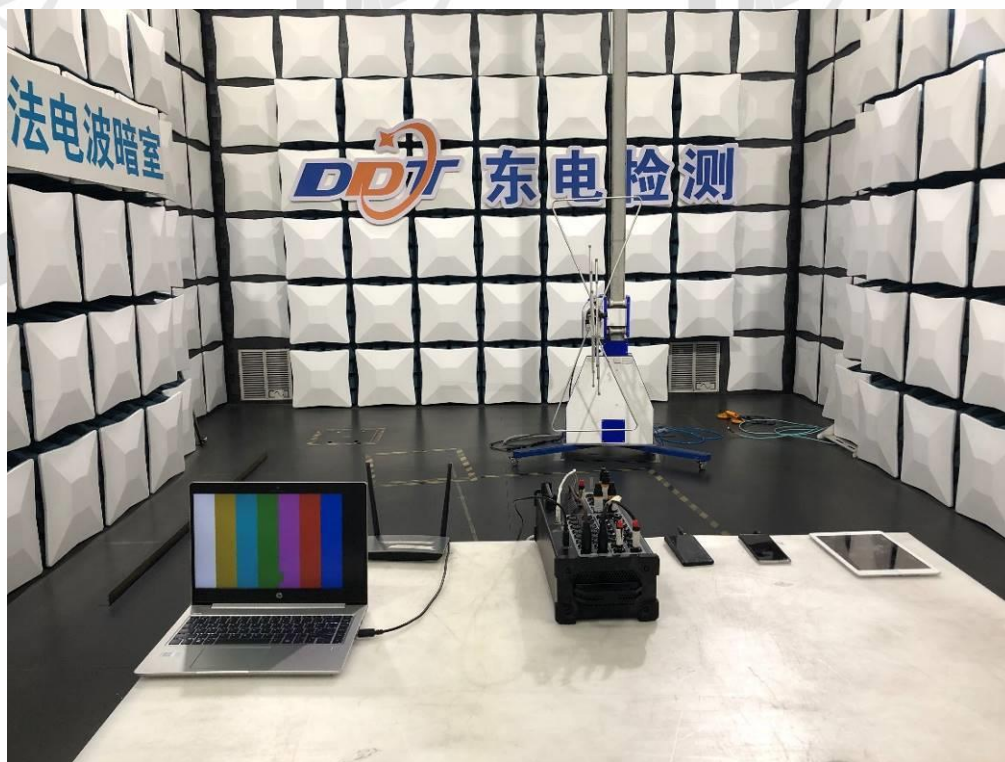
| Item (Mark) | Freq. (MHz) | Read Level (dBμV) | Antenna Factor (dB/m) | PRM Factor dB | Cable Loss dB | Result Level (dBμV/m) | Limit Line (dBμV/m) | Over Limit (dB) | Detector | Polarization |
|----------------|----------------|----------------------|--------------------------|------------------|------------------|--------------------------|------------------------|--------------------|----------|--------------|
| 1 | 2452.00 | 49.09 | 29.39 | 42.35 | 3.97 | 40.10 | 80.00 | -39.90 | Peak | HORIZONTAL |
| 2 | 3340.00 | 49.23 | 31.48 | 43.22 | 4.68 | 42.17 | 80.00 | -37.83 | Peak | HORIZONTAL |
| 3 | 4324.00 | 50.52 | 33.50 | 43.46 | 5.27 | 45.83 | 80.00 | -34.17 | Peak | HORIZONTAL |
| 4 | 5416.00 | 50.88 | 34.26 | 42.89 | 5.77 | 48.02 | 80.00 | -31.98 | Peak | HORIZONTAL |
| 5 | 10384.00 | 48.92 | 39.24 | 42.46 | 8.15 | 53.85 | 80.00 | -26.15 | Peak | HORIZONTAL |
| 6 | 10384.00 | 38.16 | 39.24 | 42.46 | 8.15 | 43.09 | 60.00 | -16.91 | Average | HORIZONTAL |
| 7 | 12760.00 | 47.52 | 37.88 | 41.90 | 9.86 | 53.36 | 80.00 | -26.64 | Peak | HORIZONTAL |
| 8 | 12760.00 | 37.16 | 37.88 | 41.90 | 9.86 | 43.00 | 60.00 | -17.00 | Average | HORIZONTAL |

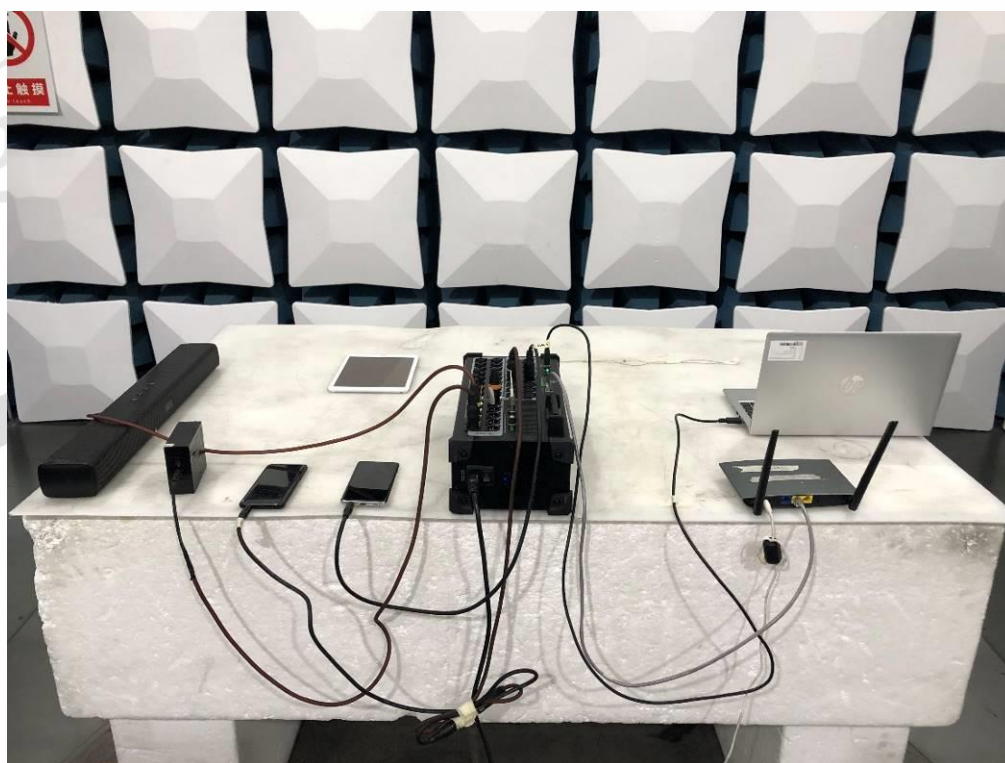
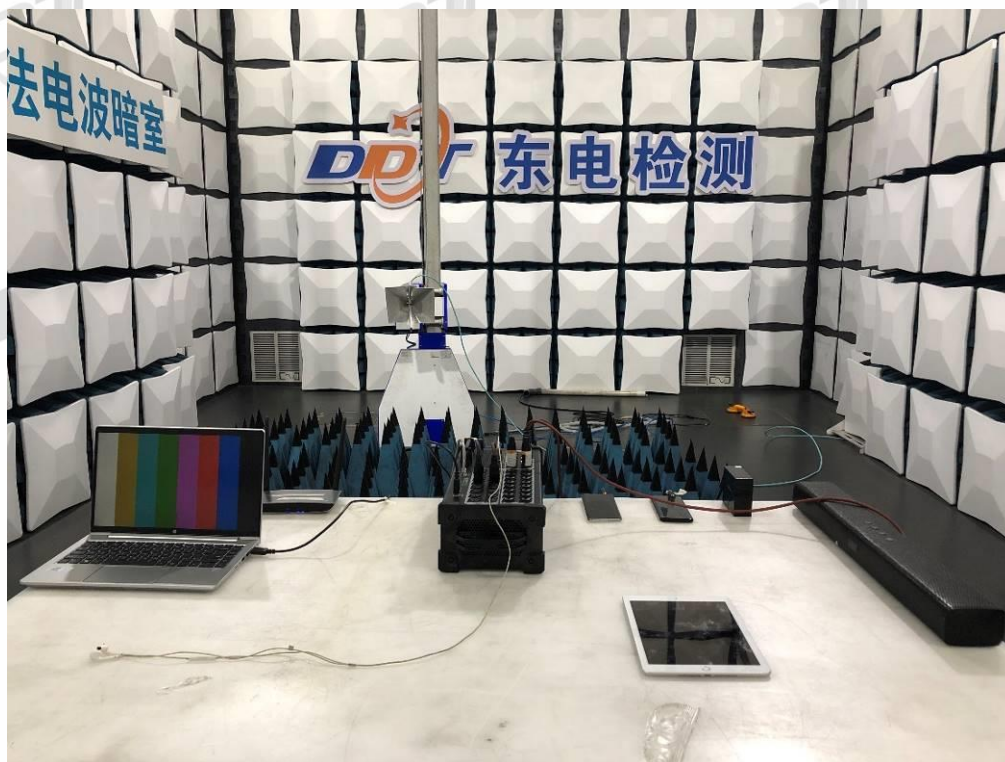
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4.7. Test photo





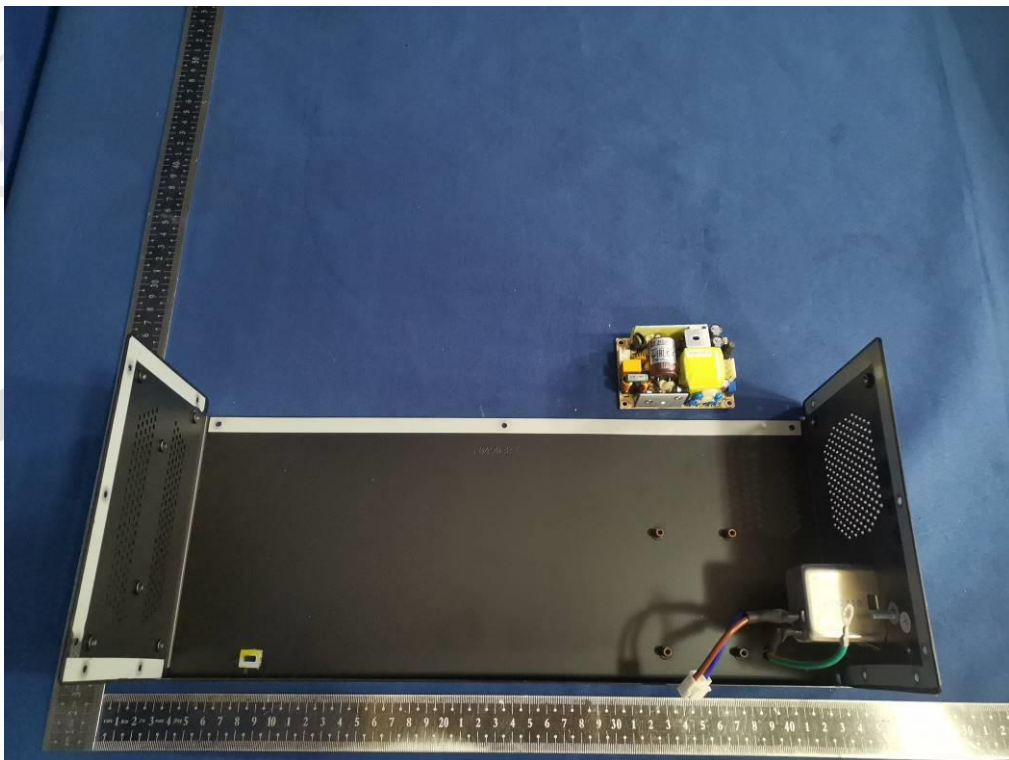
5. Photos of the EUT

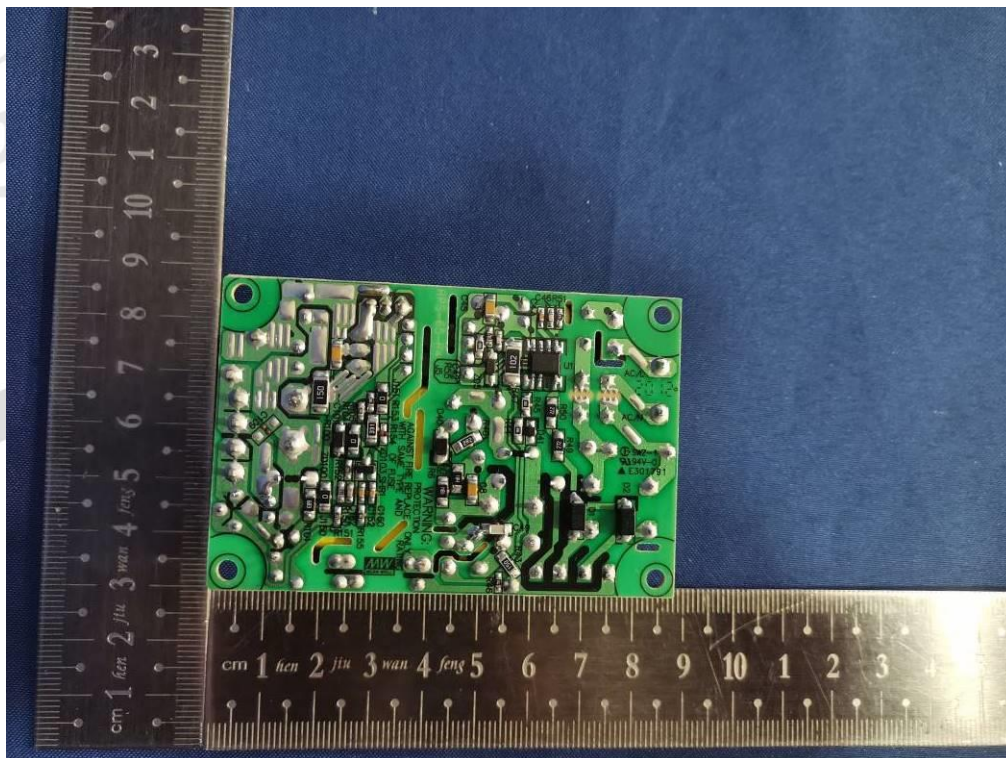
Model Number: DL32S

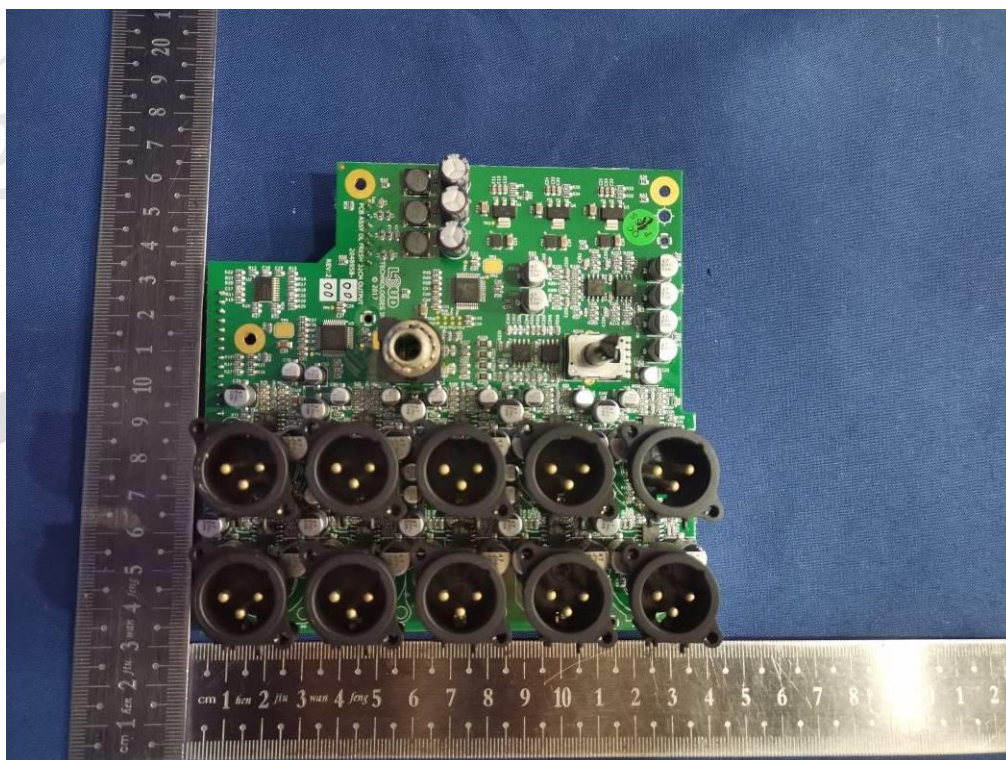
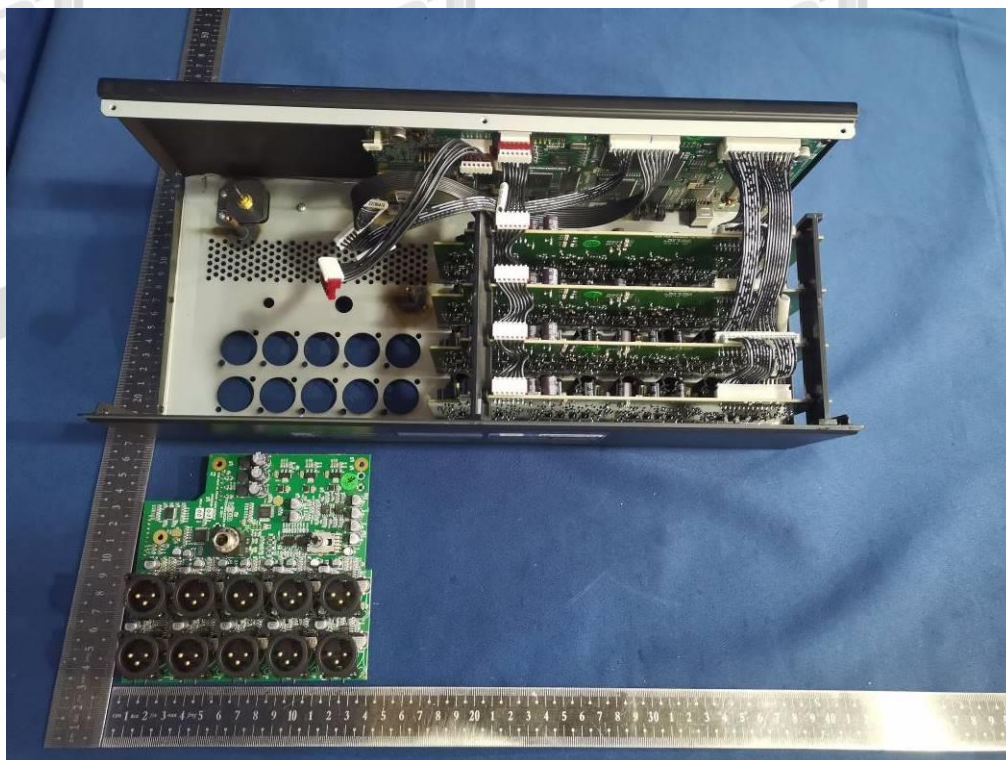


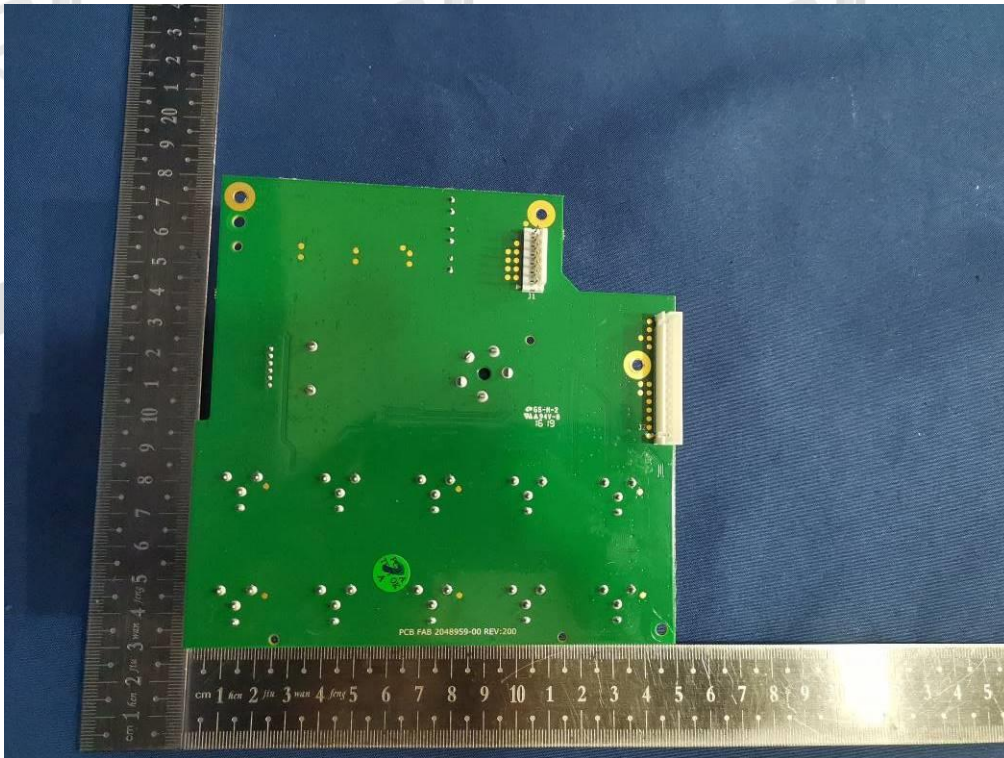


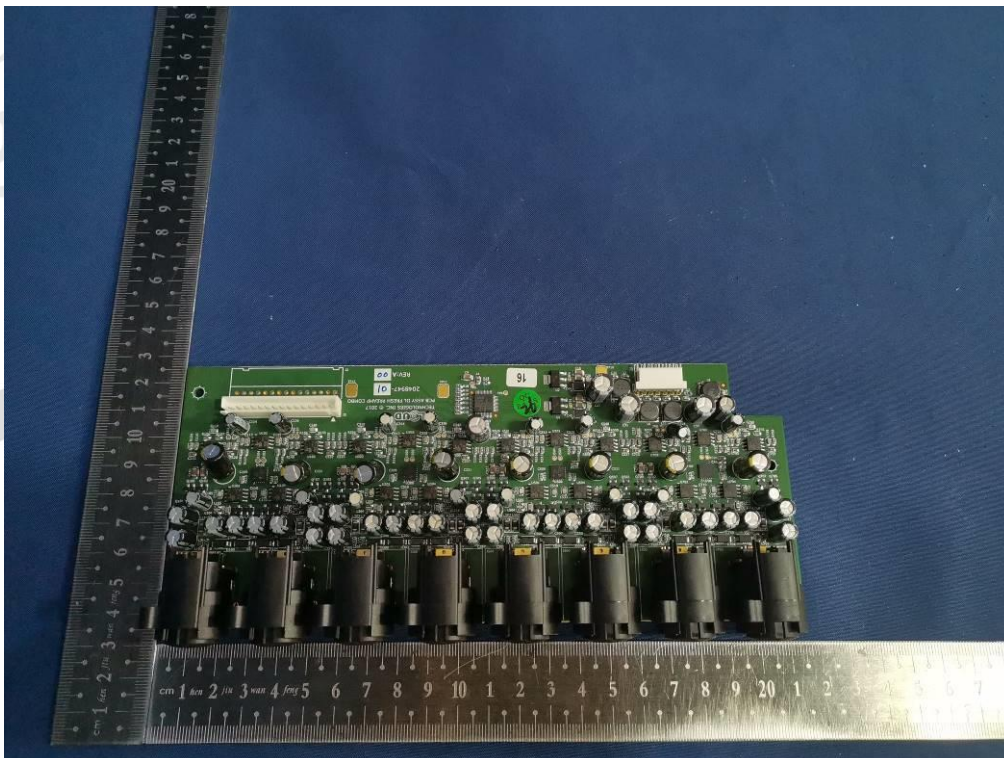
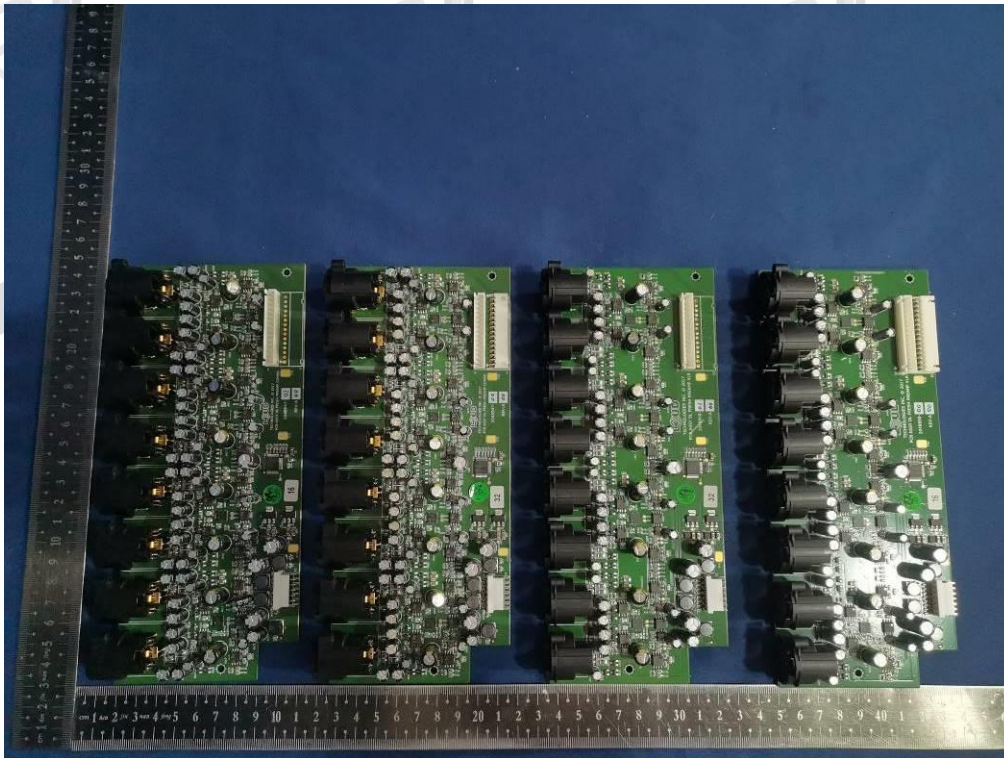


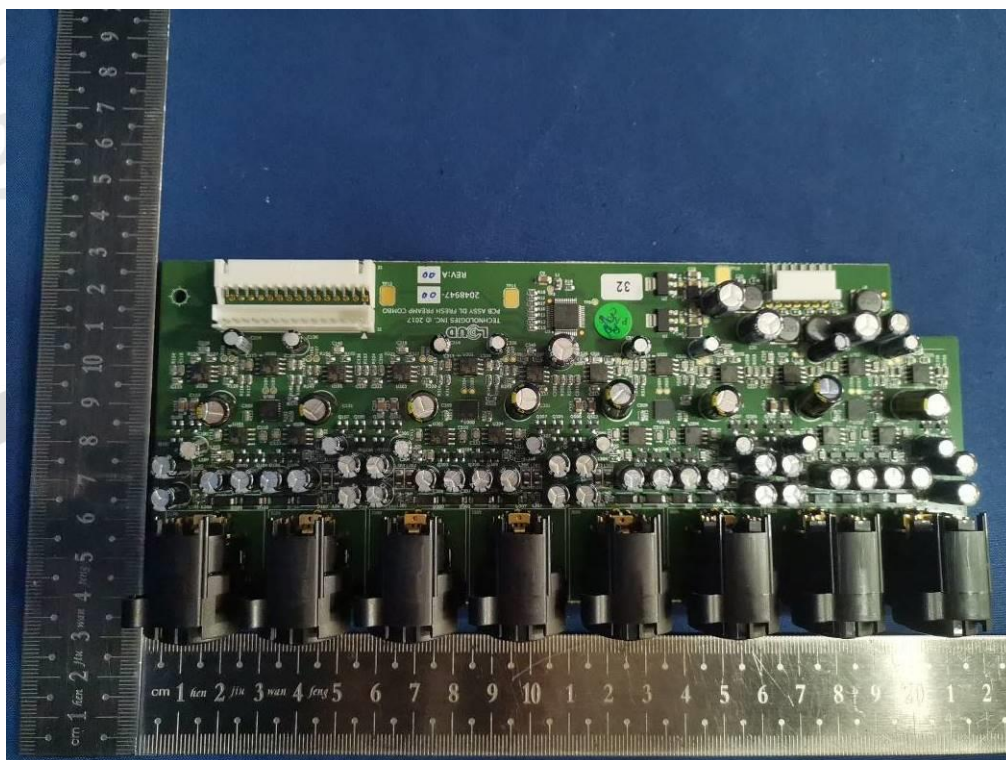
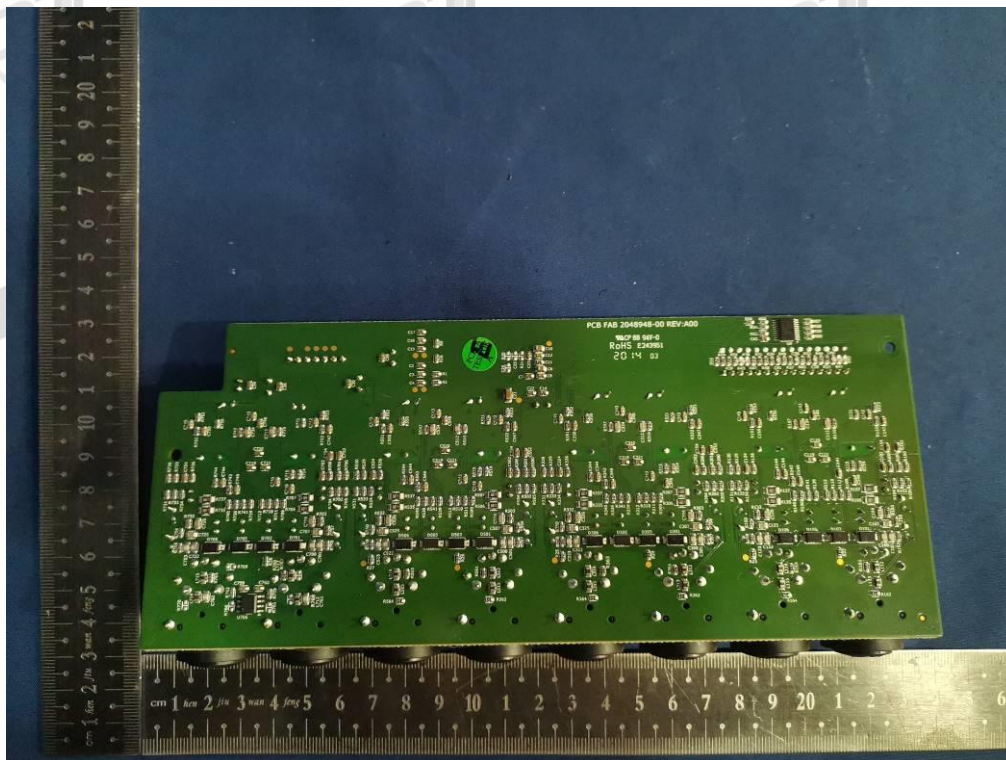


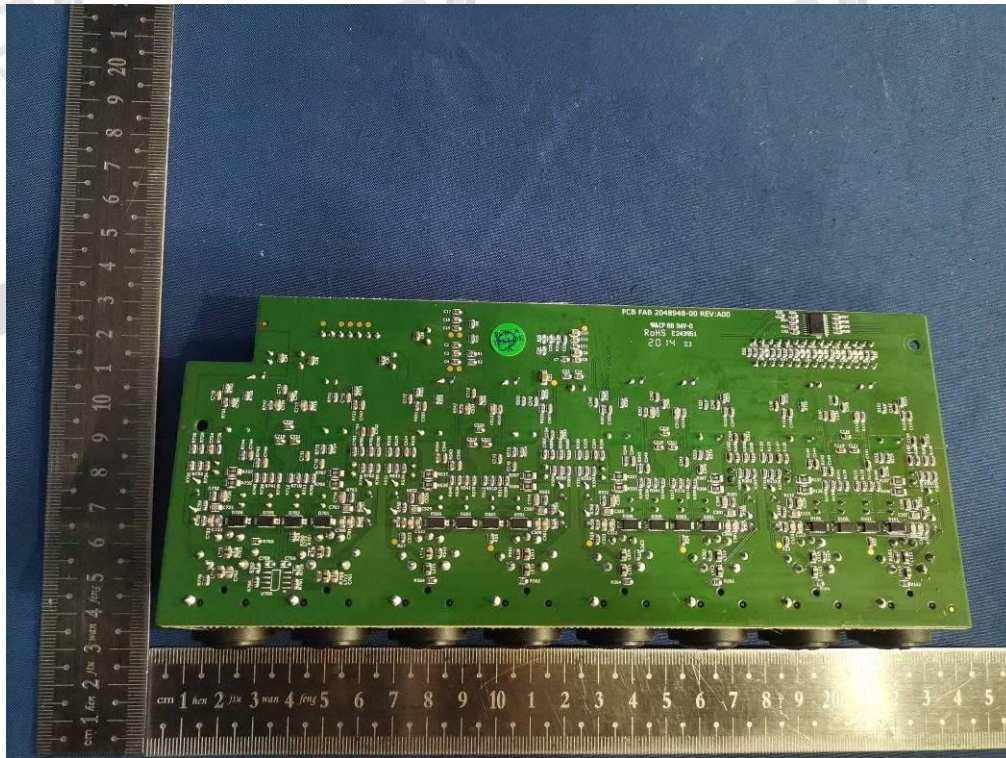


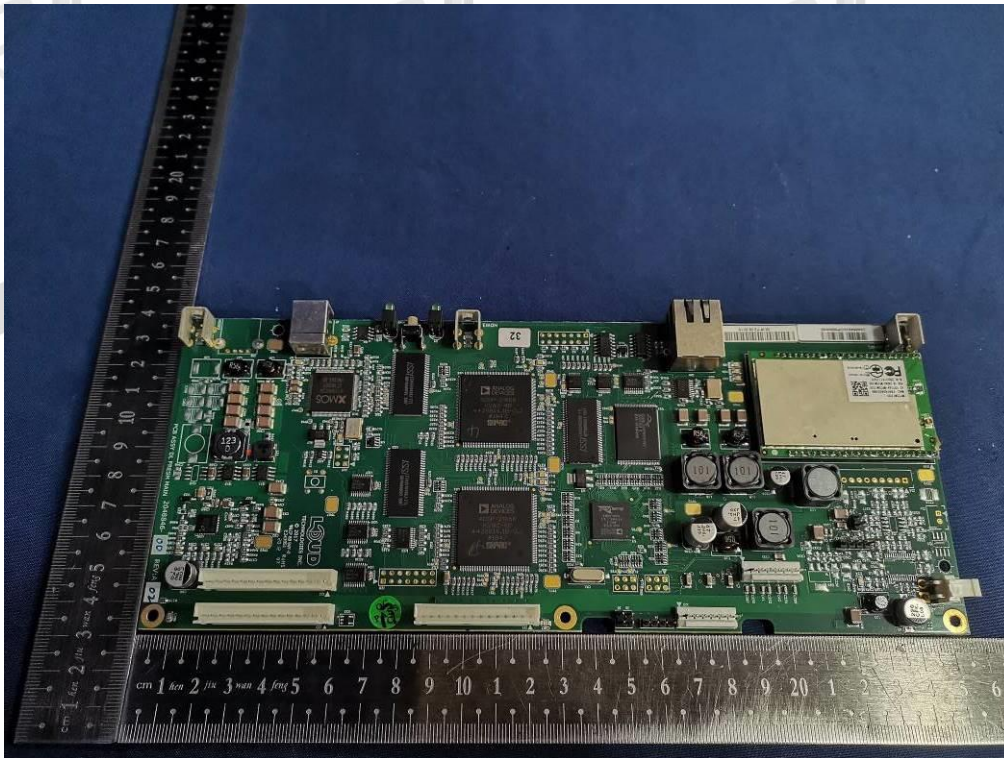


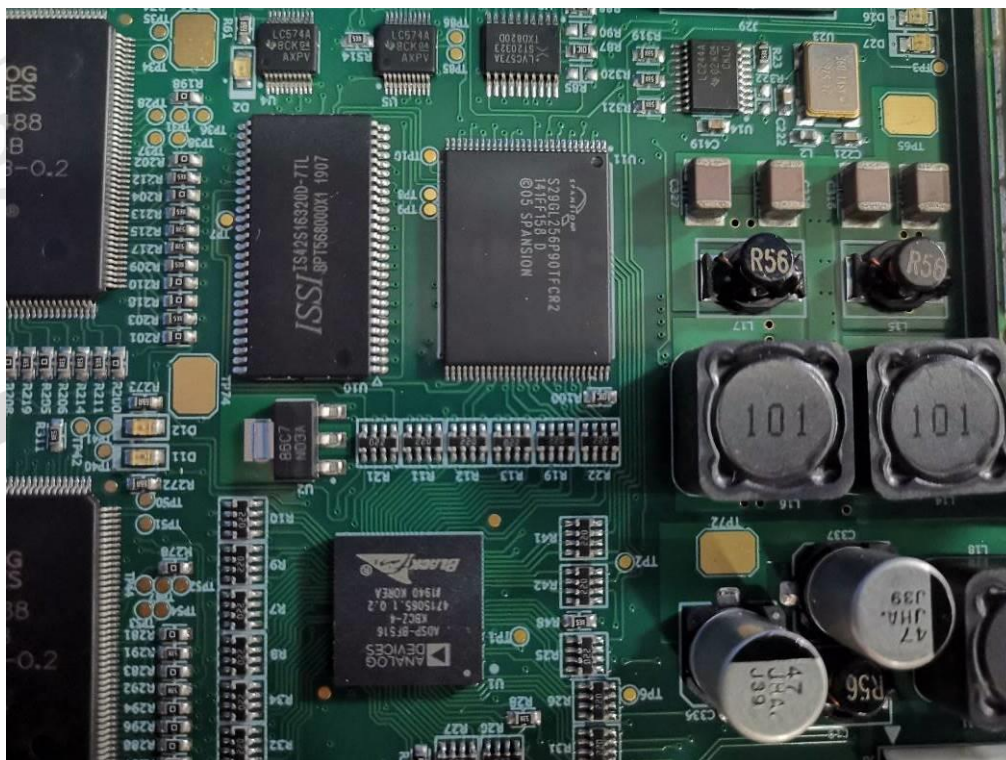
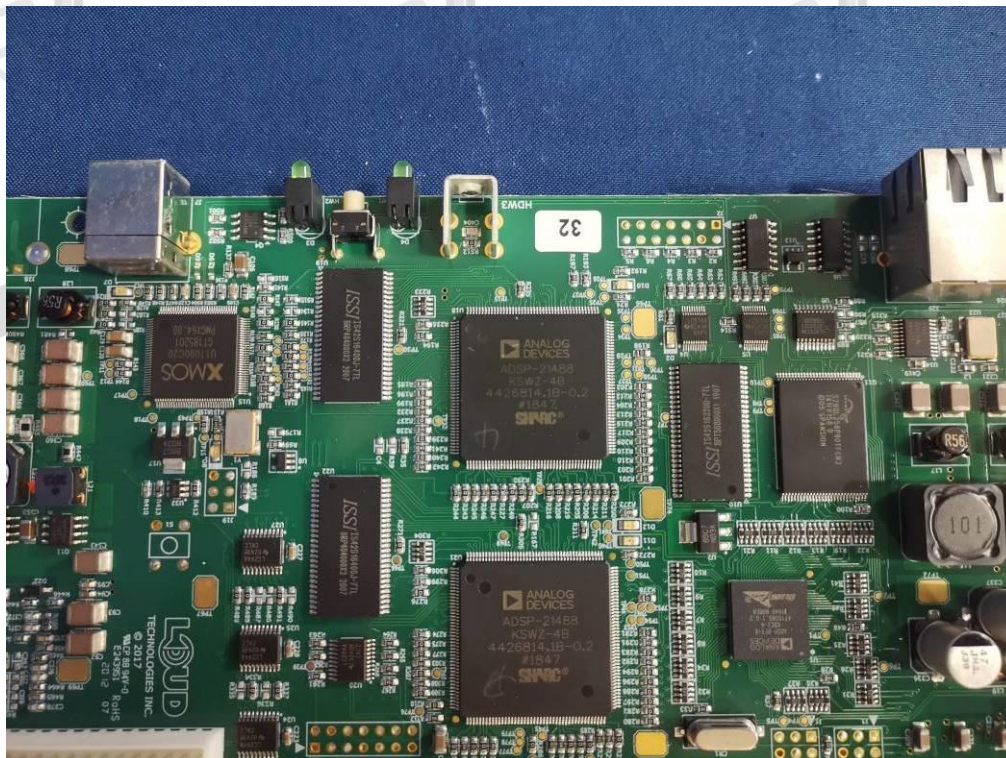


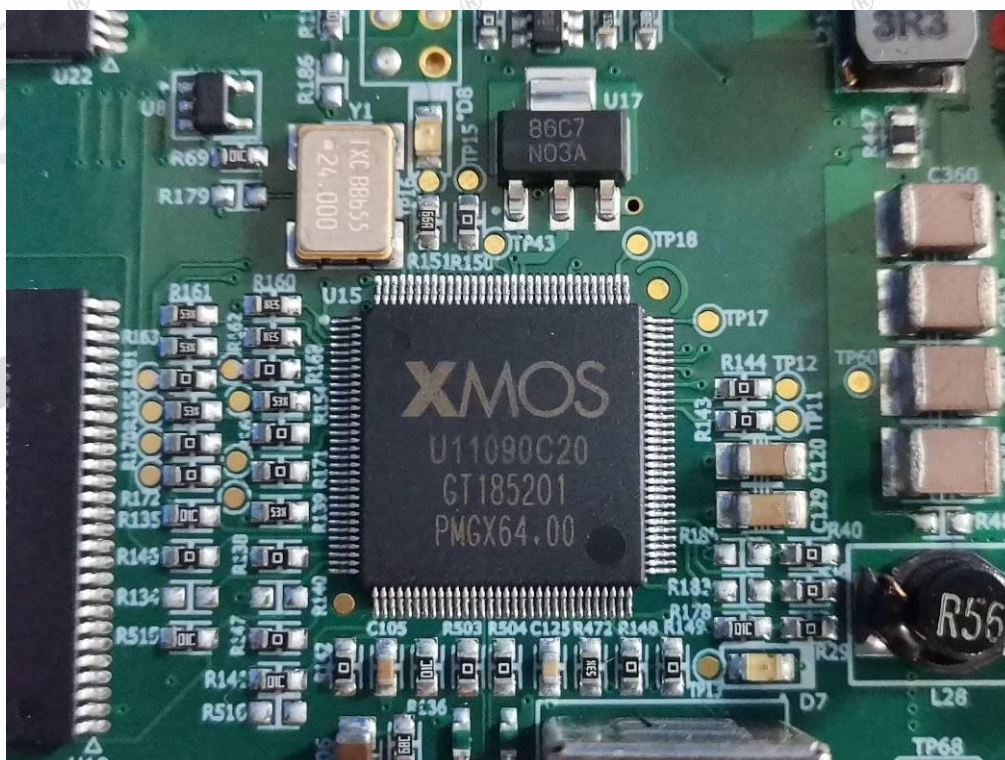
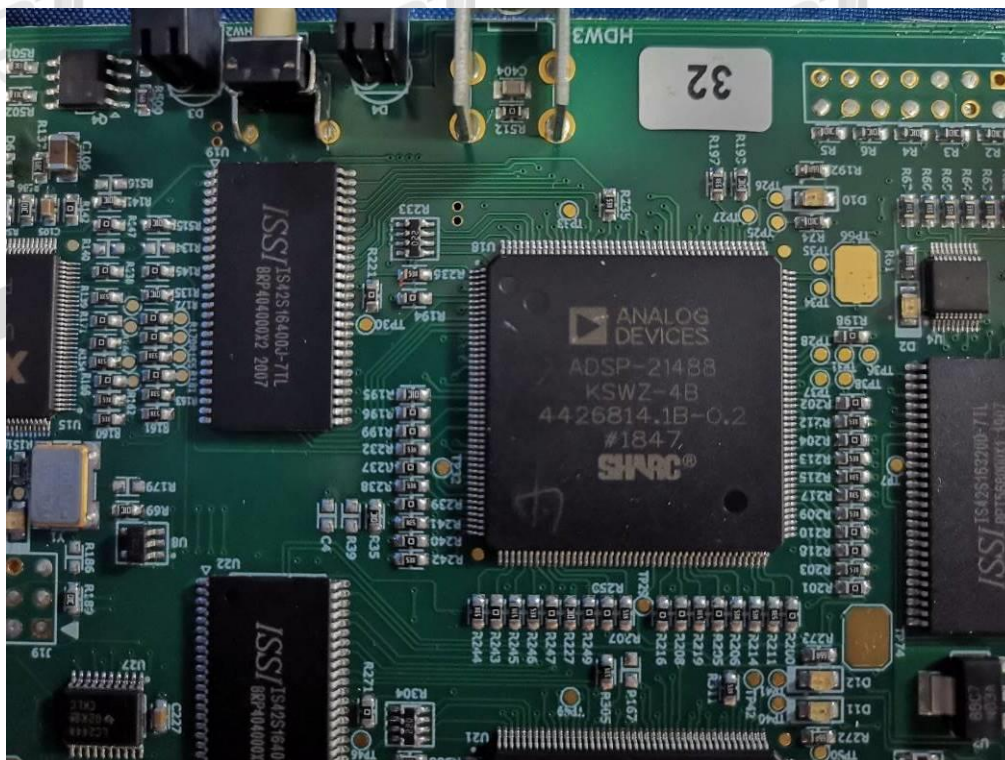


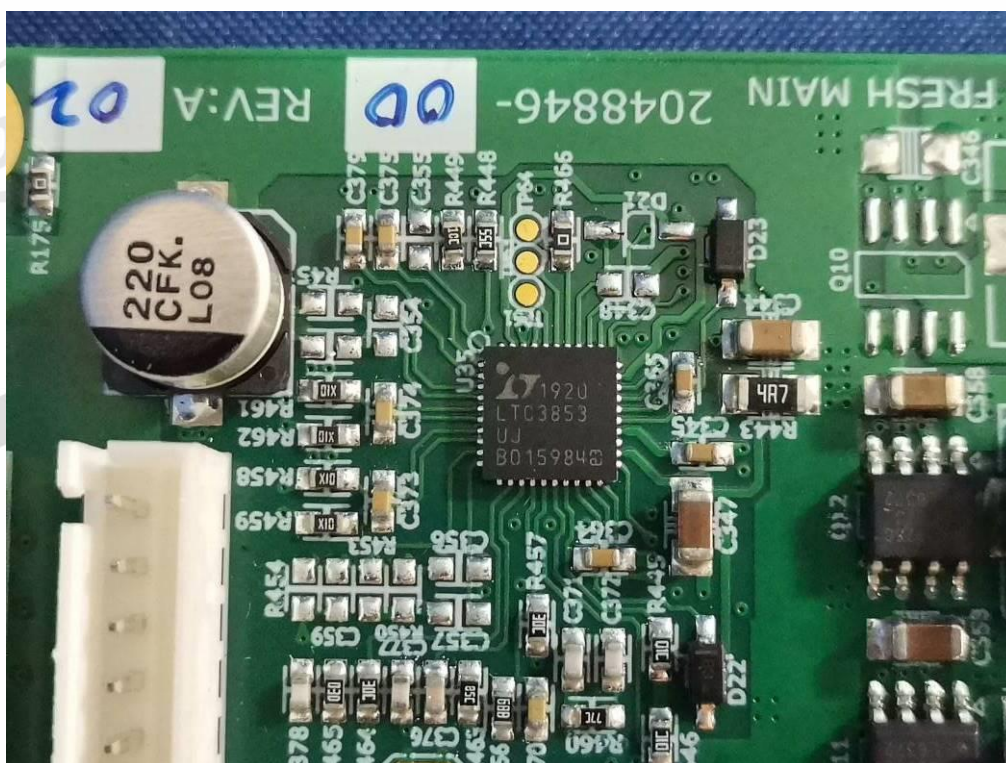
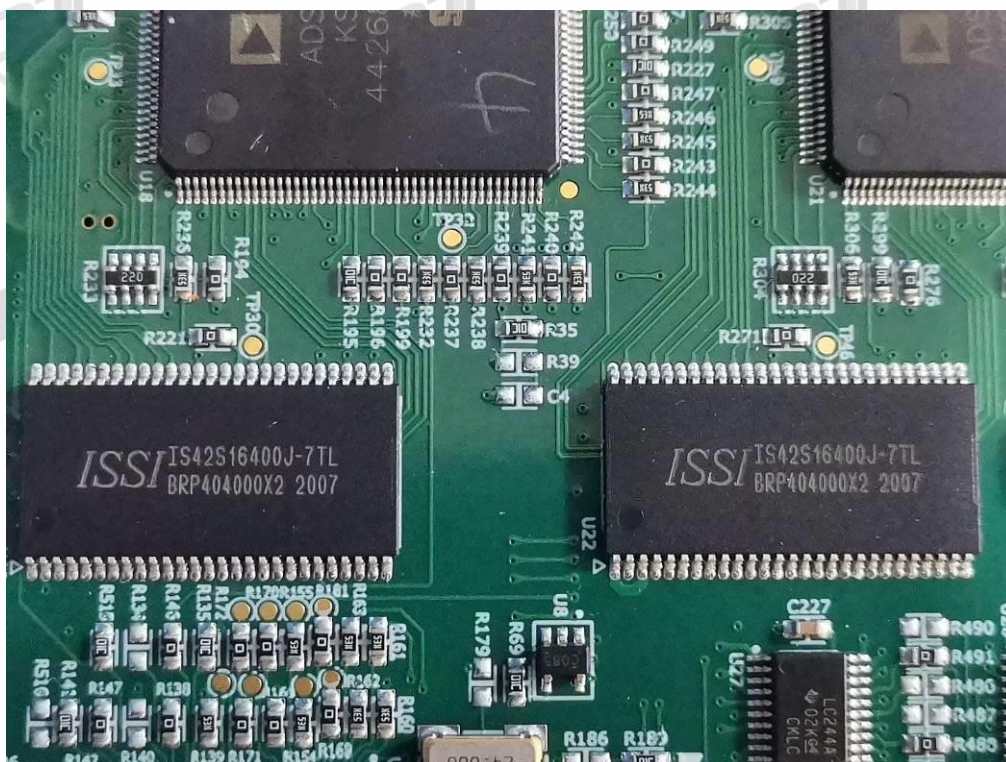


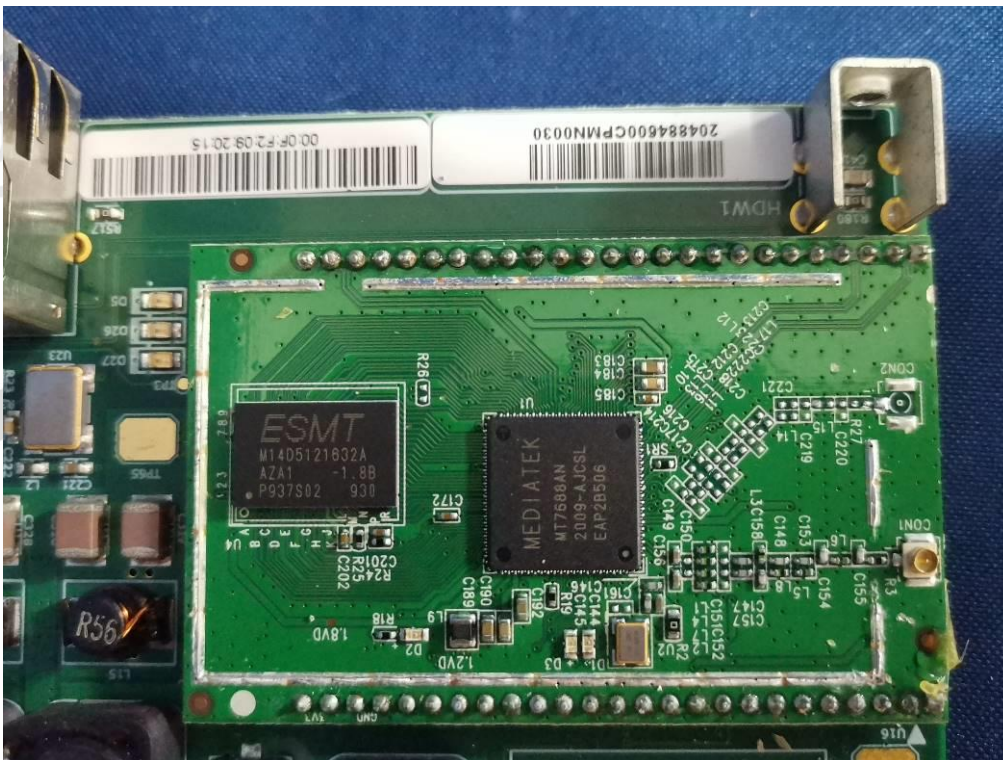


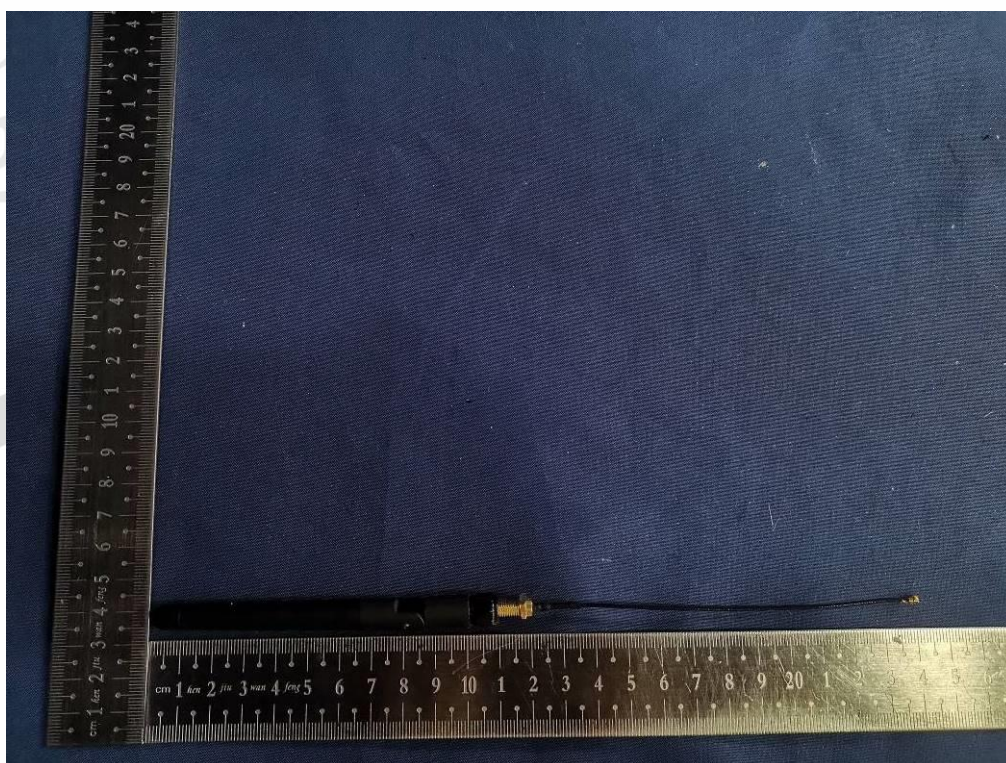
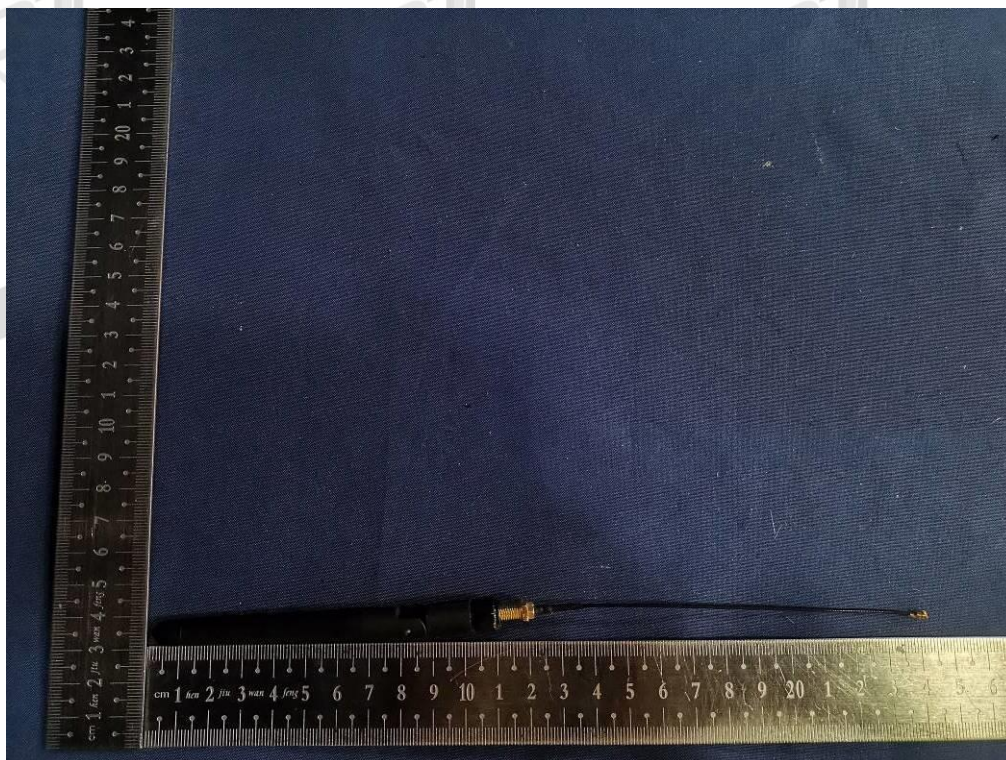








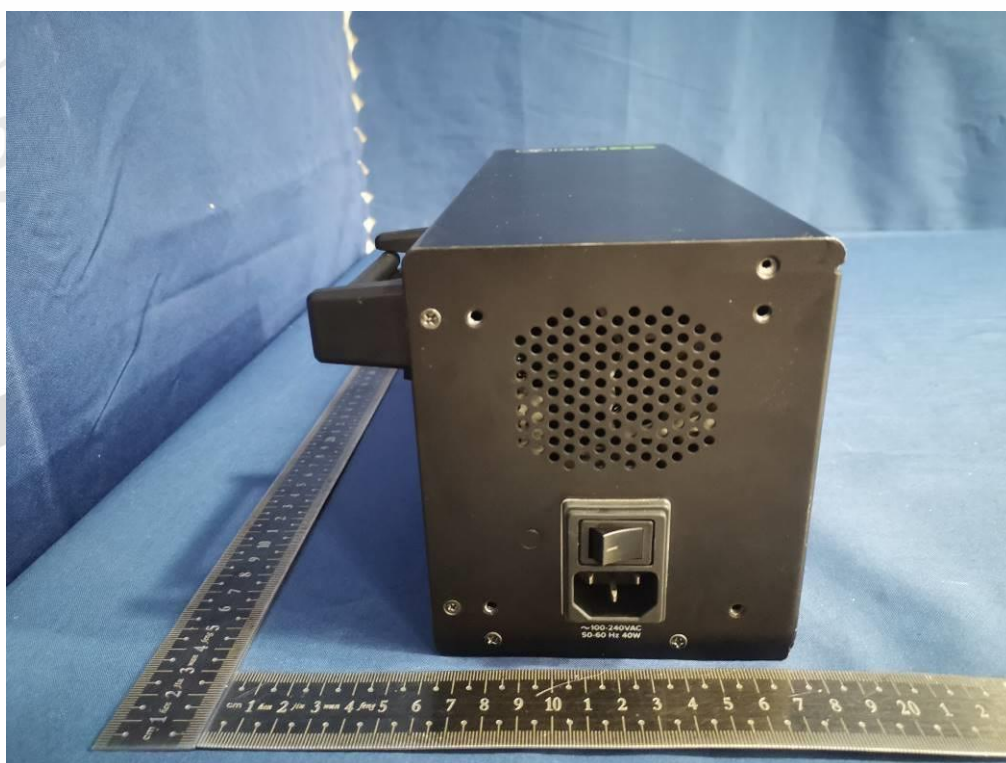


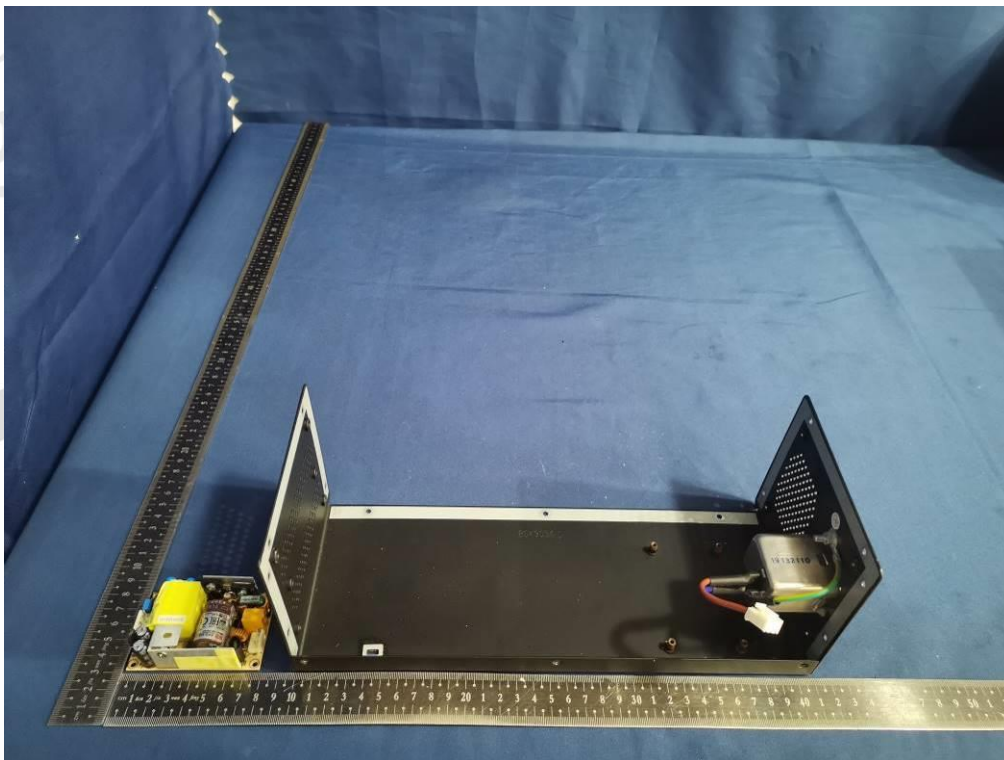
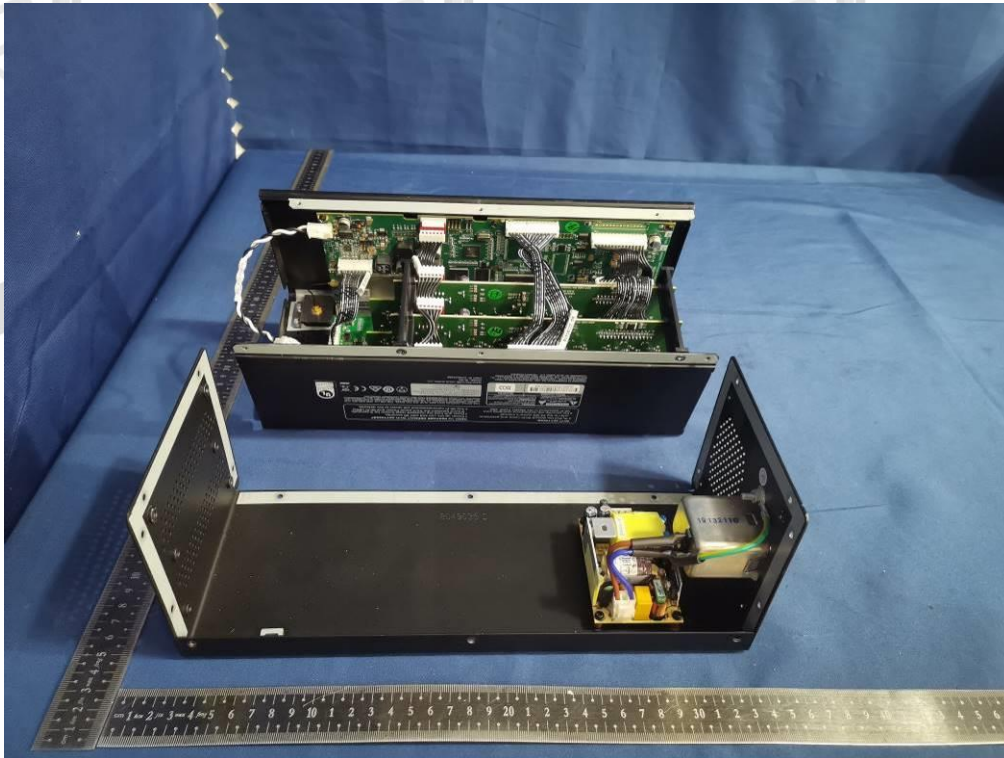


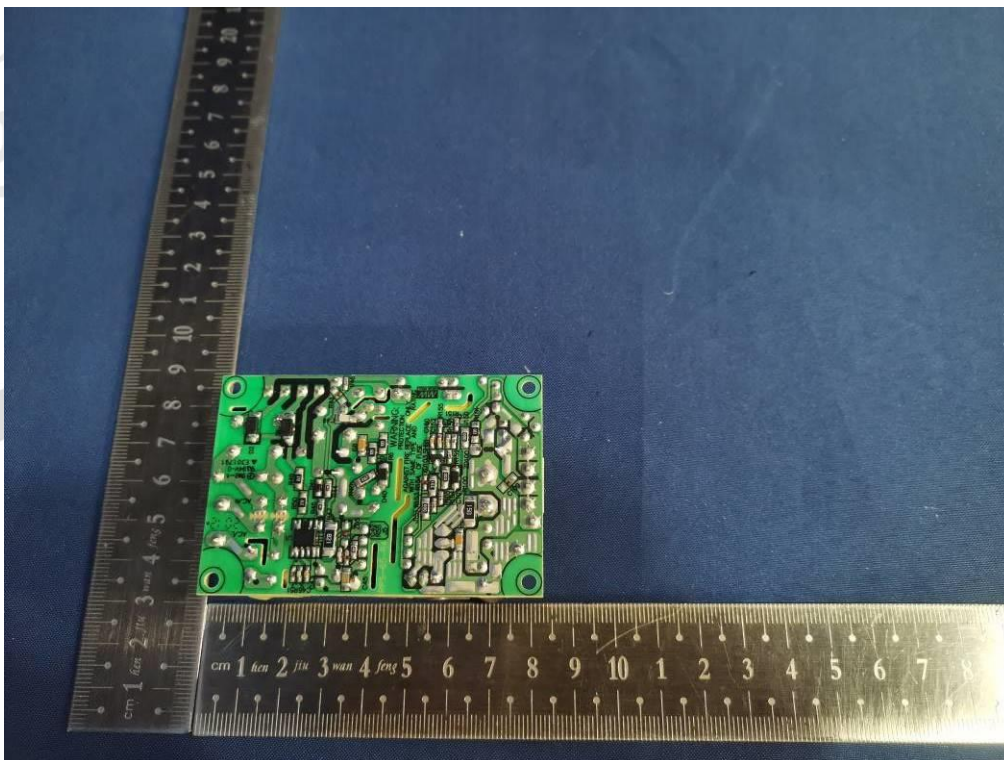
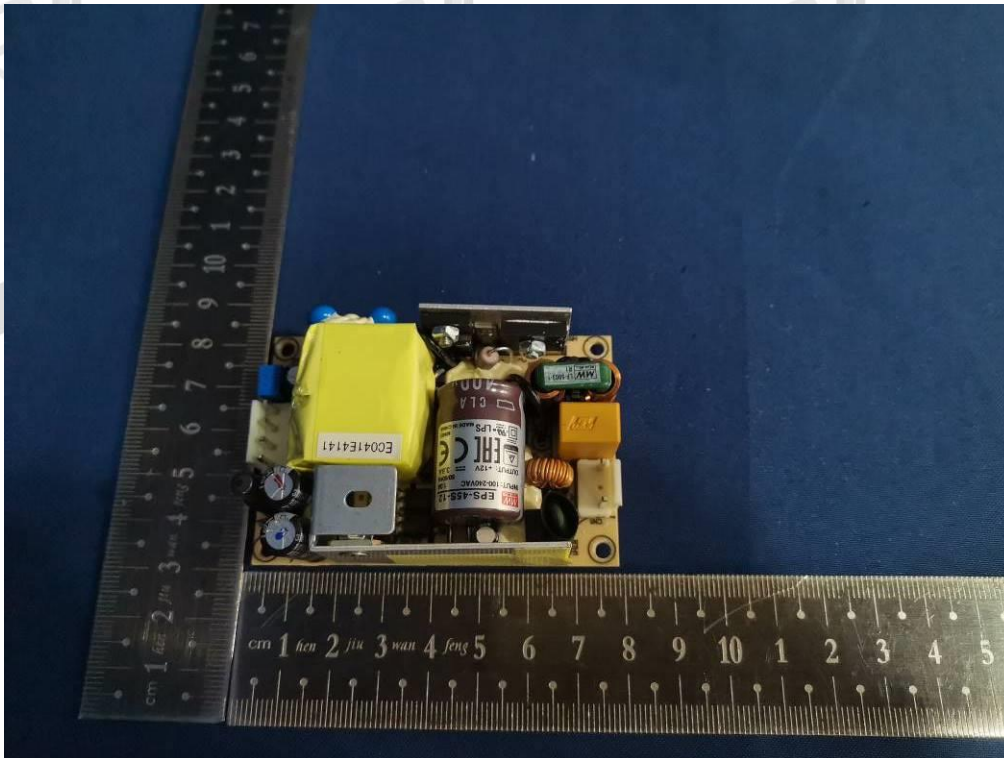
Model Number: DL16S

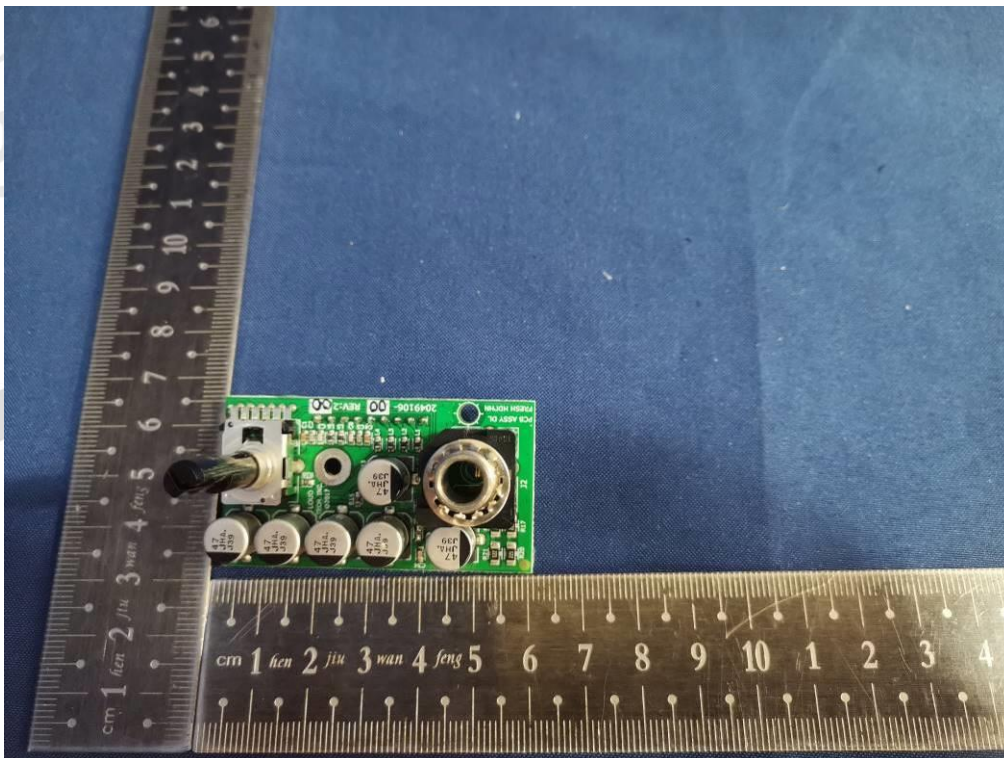


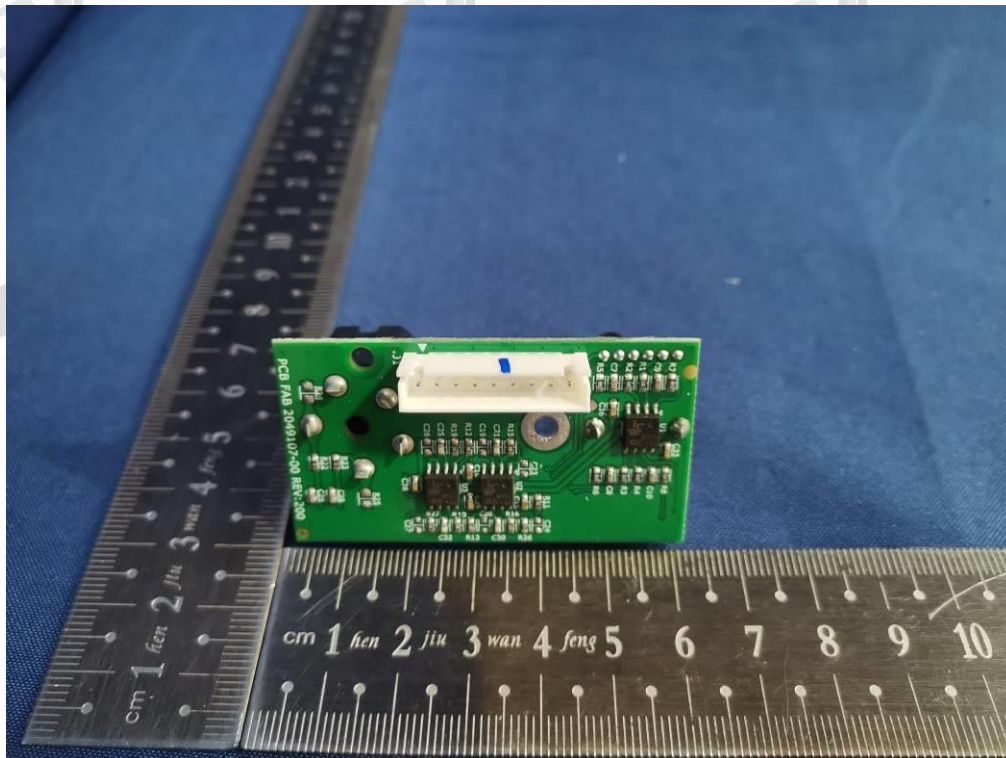


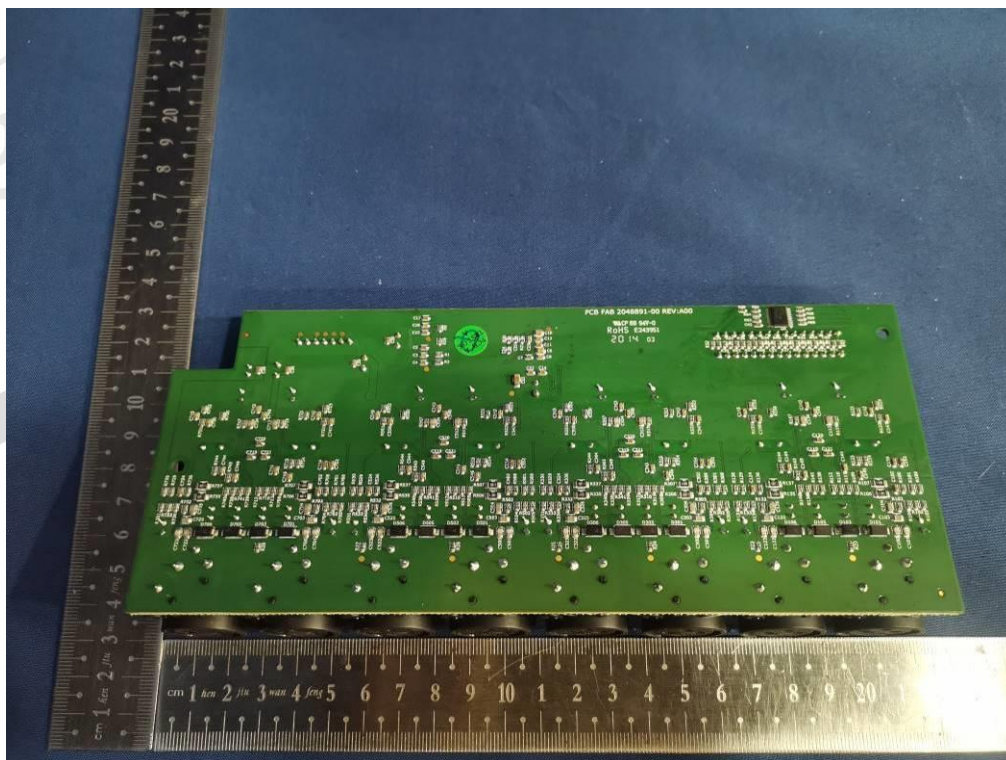
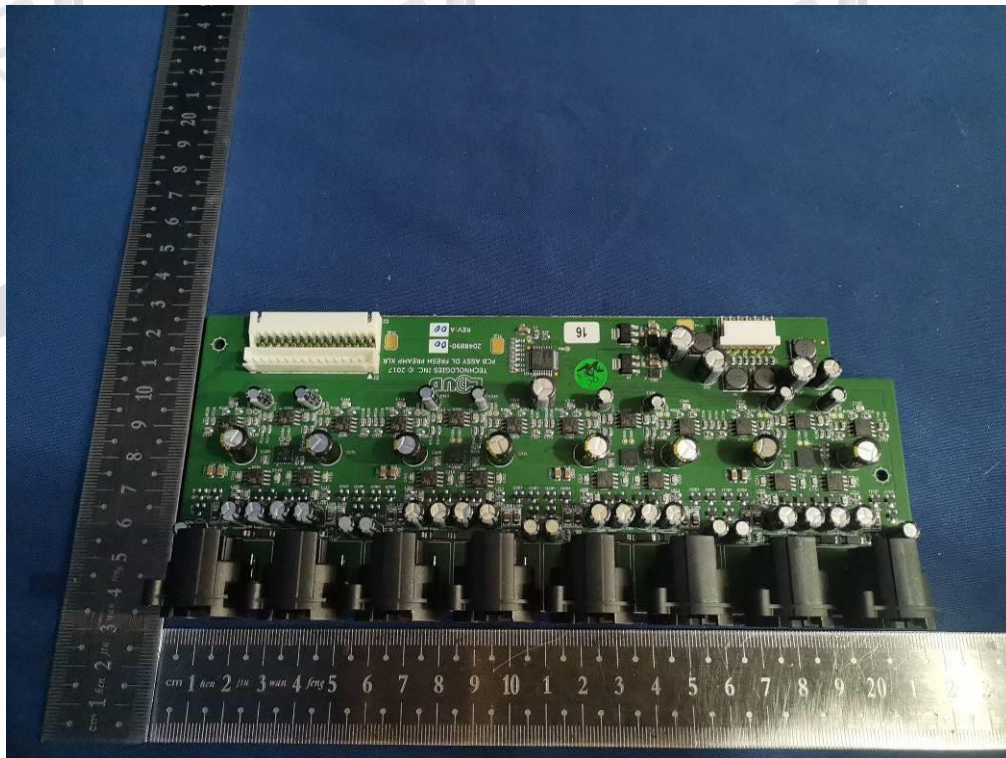


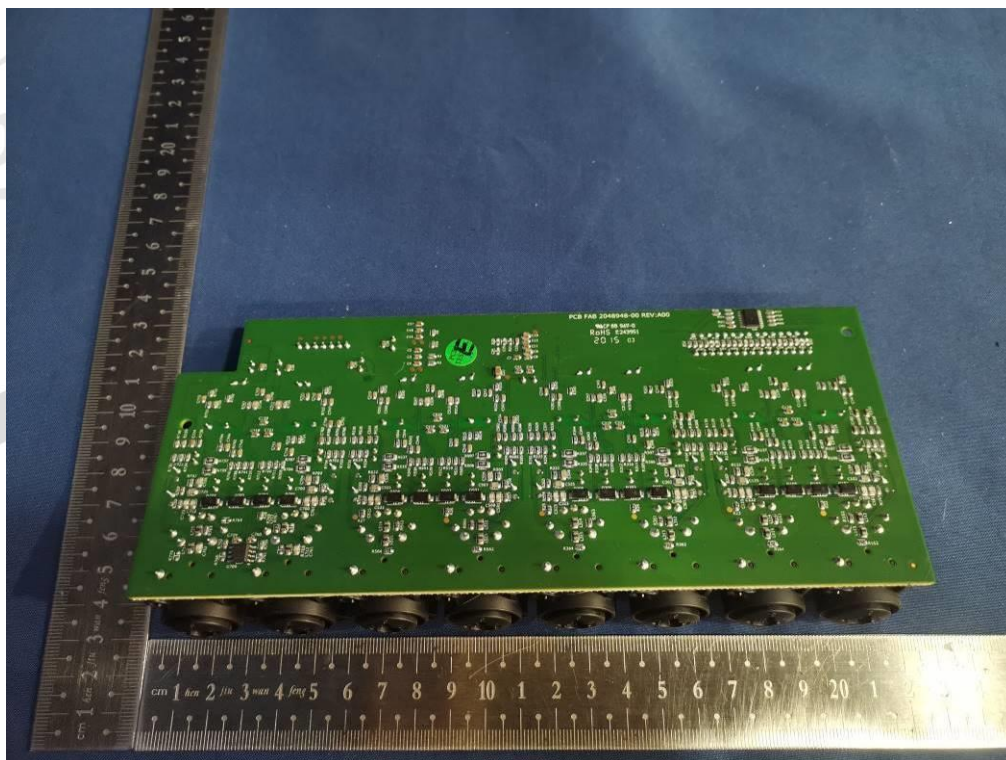
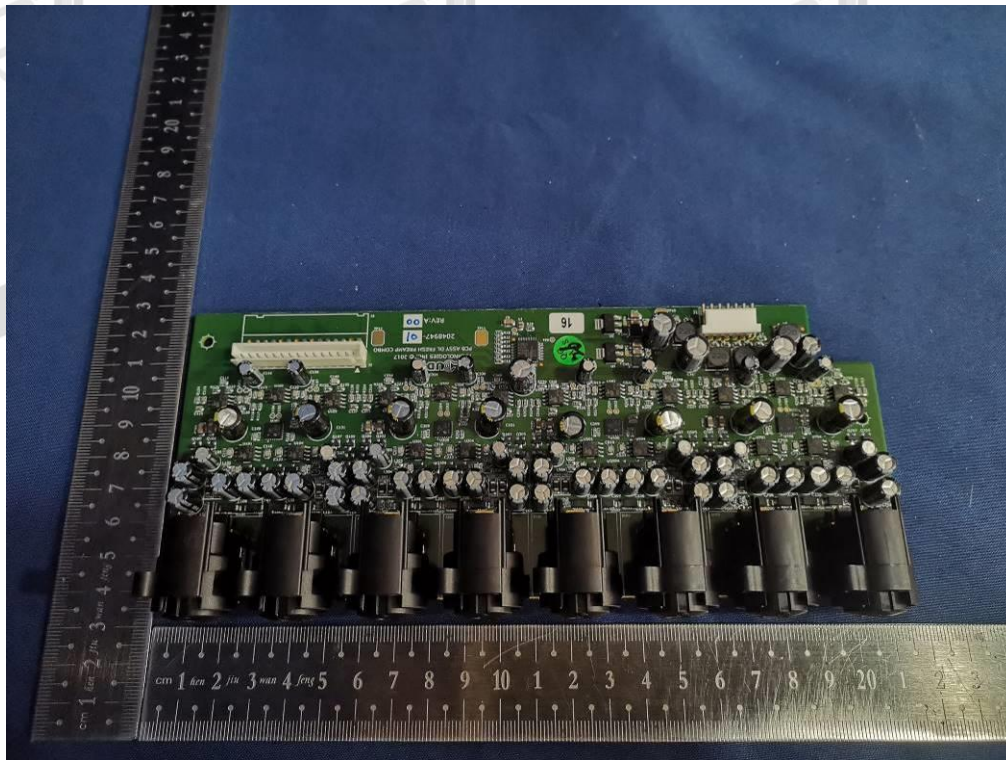


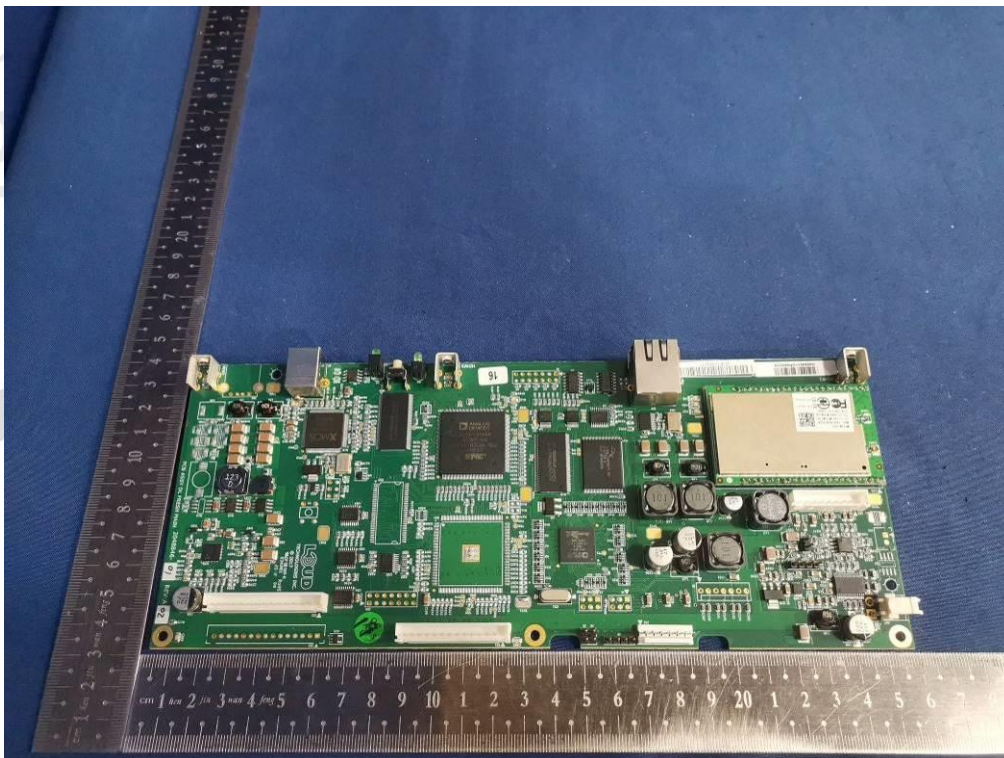


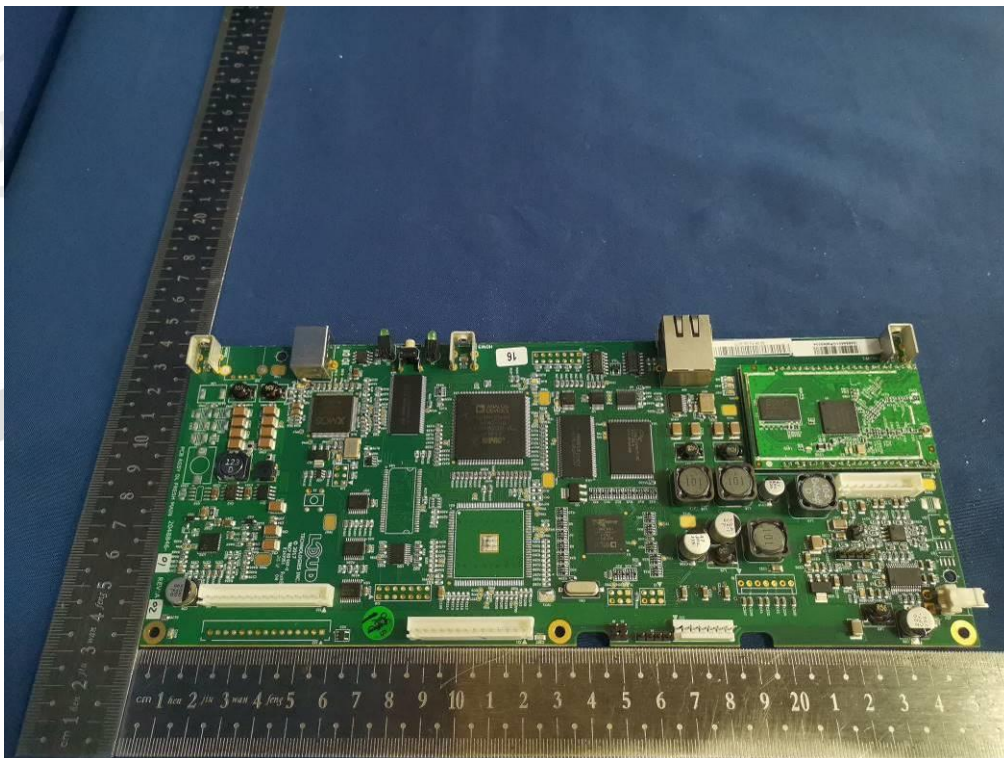
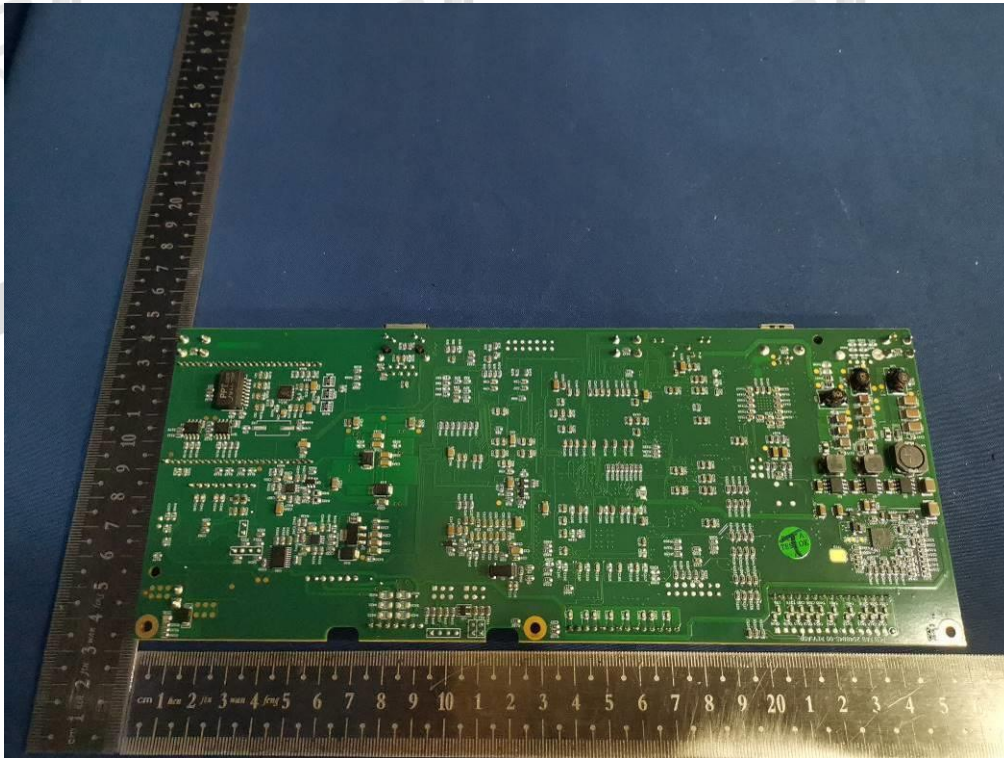


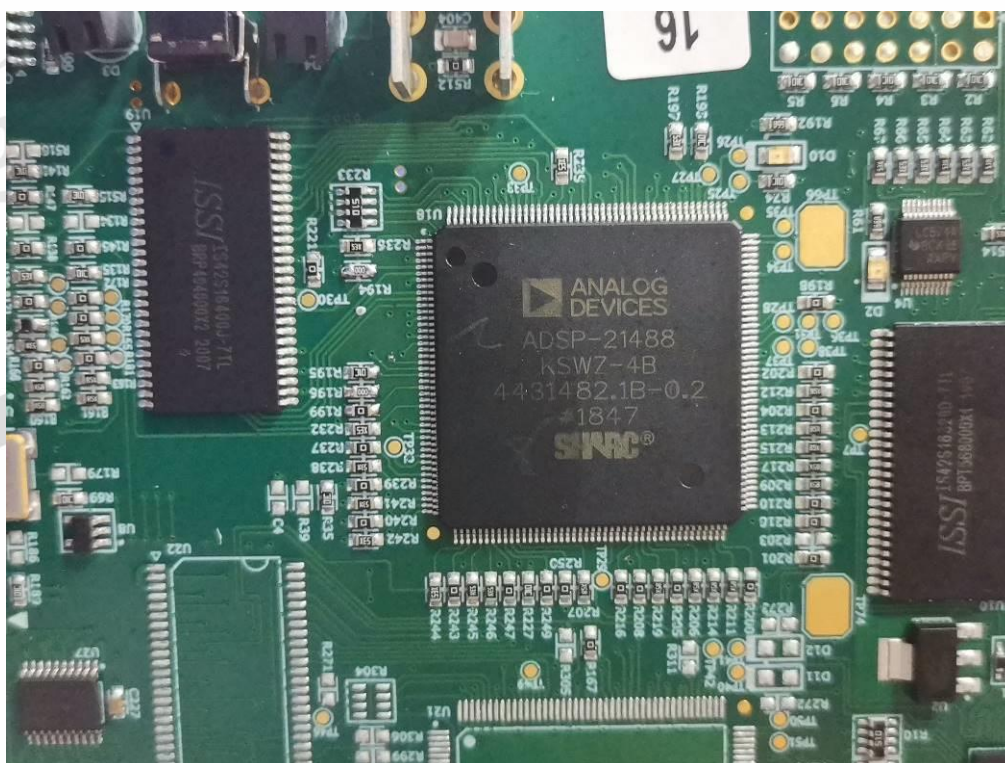


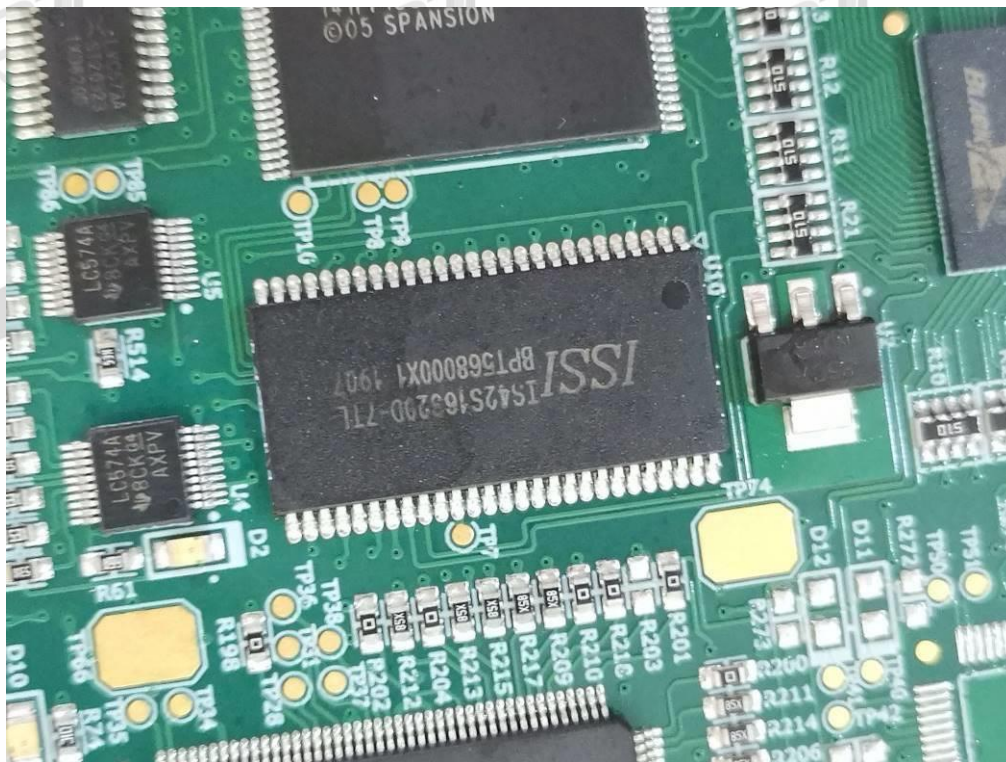


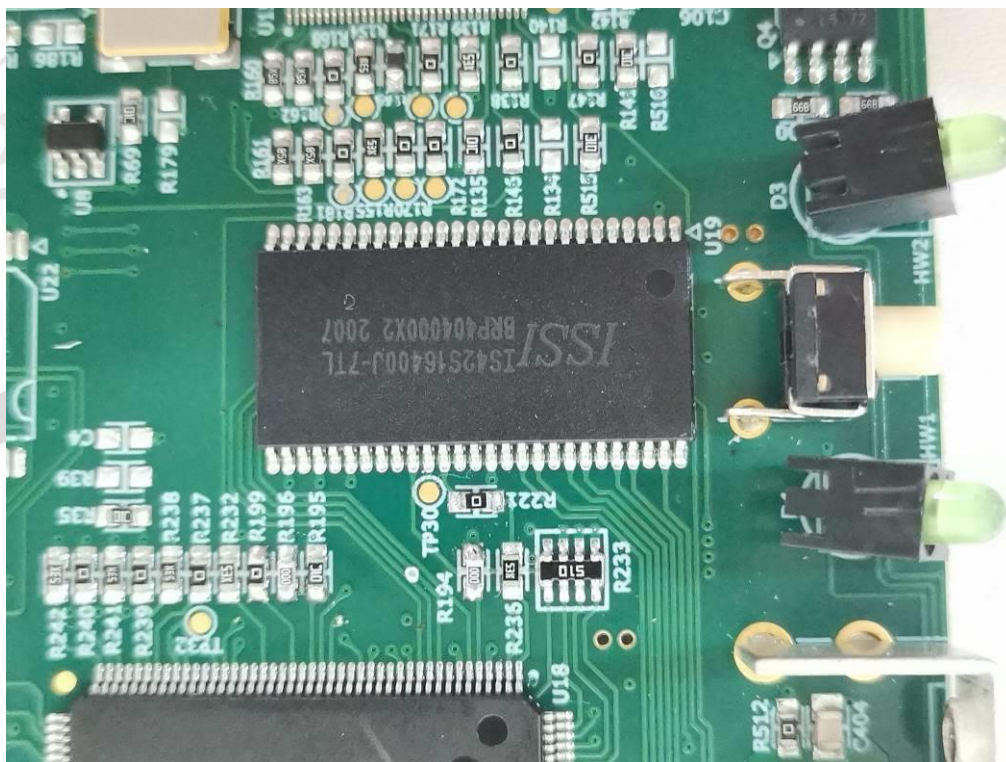
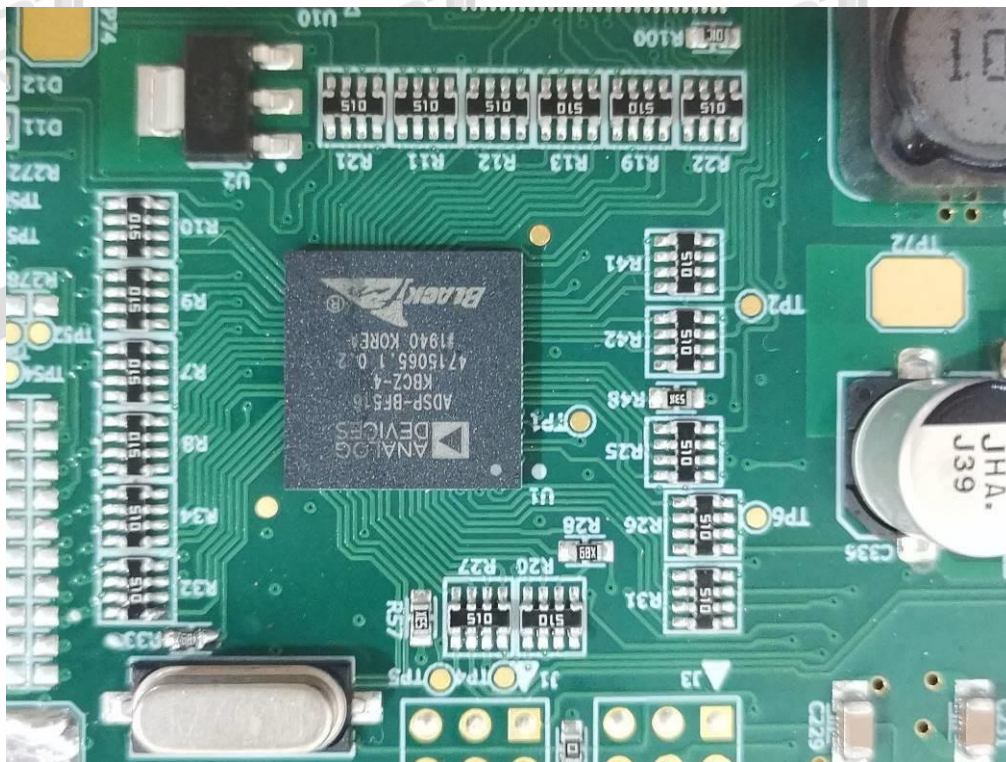


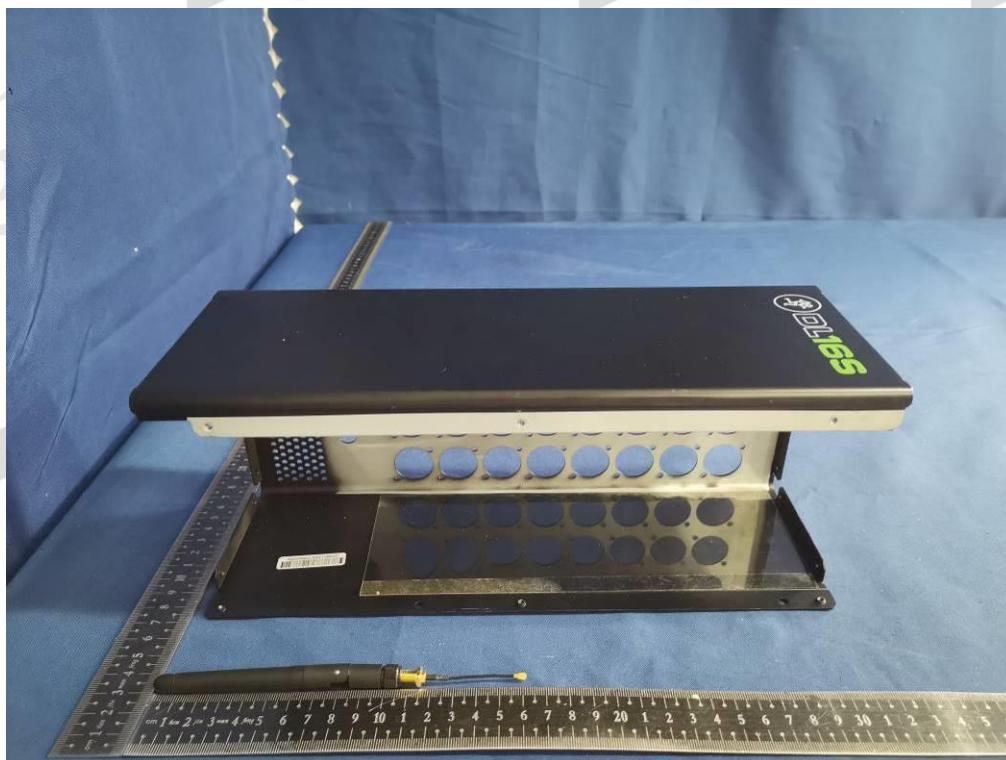


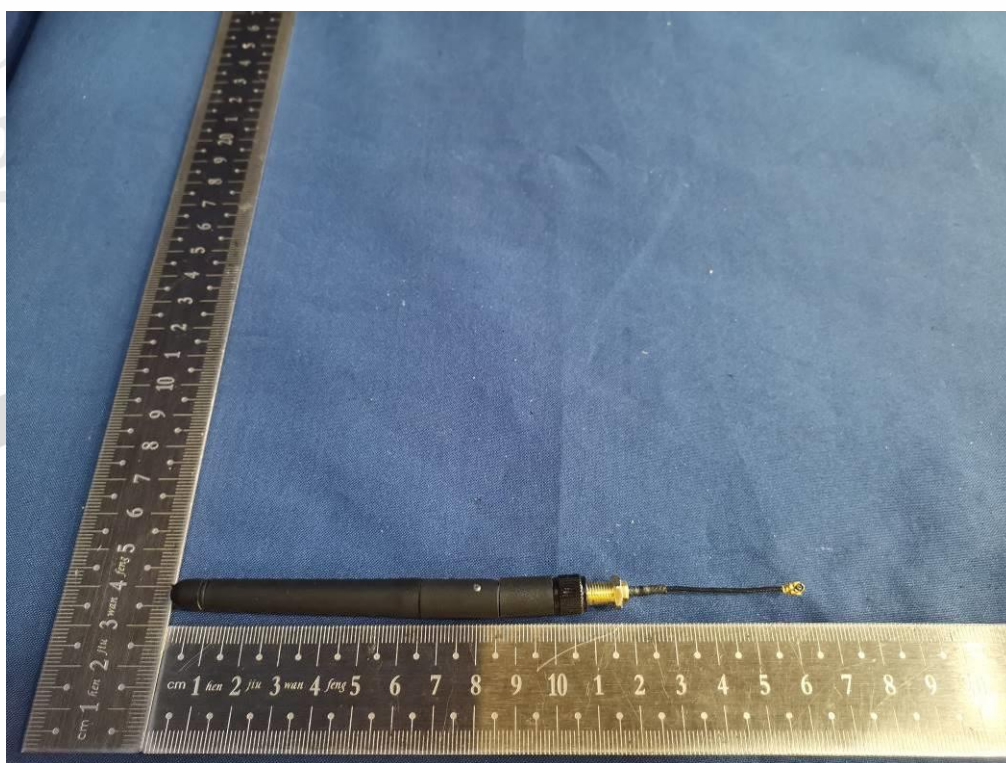
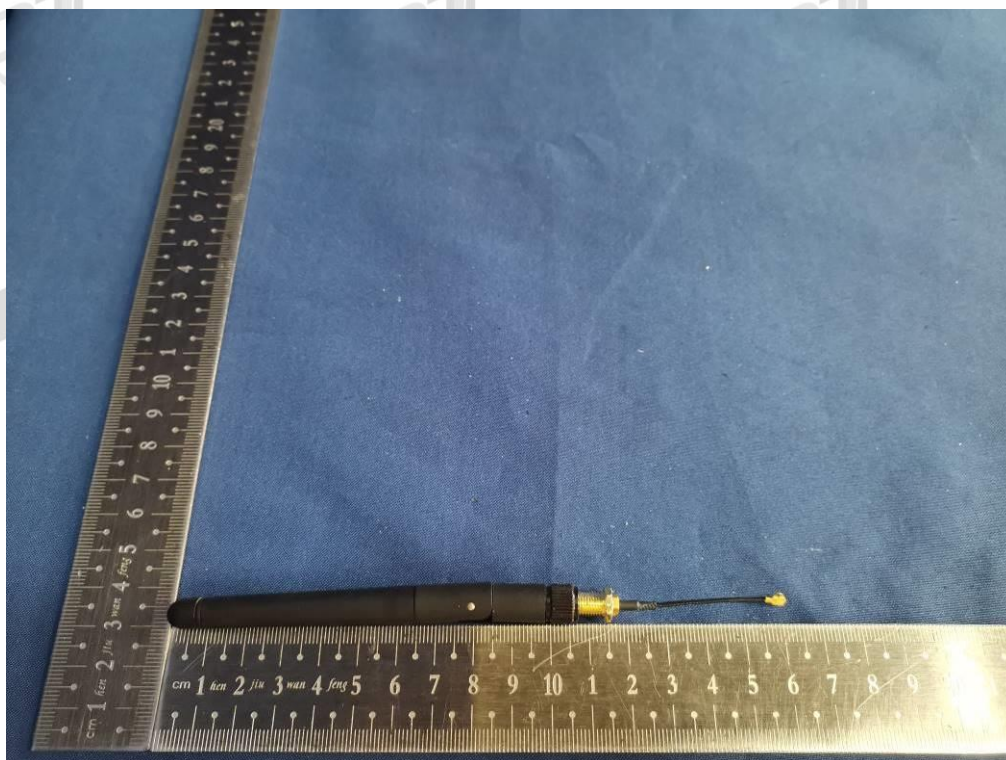














Appendix I

Regulatory Statement and Label Marking Advice for the FCC SDoC

1. Marking Suggested for the label:

Trade Name and model number

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2. Statement suggested for the User Manual:

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

Notes: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Note: If shielded cables or special accessories are required for compliance, a statement must be included which instructs the user to employ them, for example, shielded cables must be used with this unit to ensure compliance with the Class A FCC limits.

Appendix II

Suggested text for the notice indicating compliance with this Standard:

CAN ICES-003(A)/NMB-003(A)

END OF REPORT