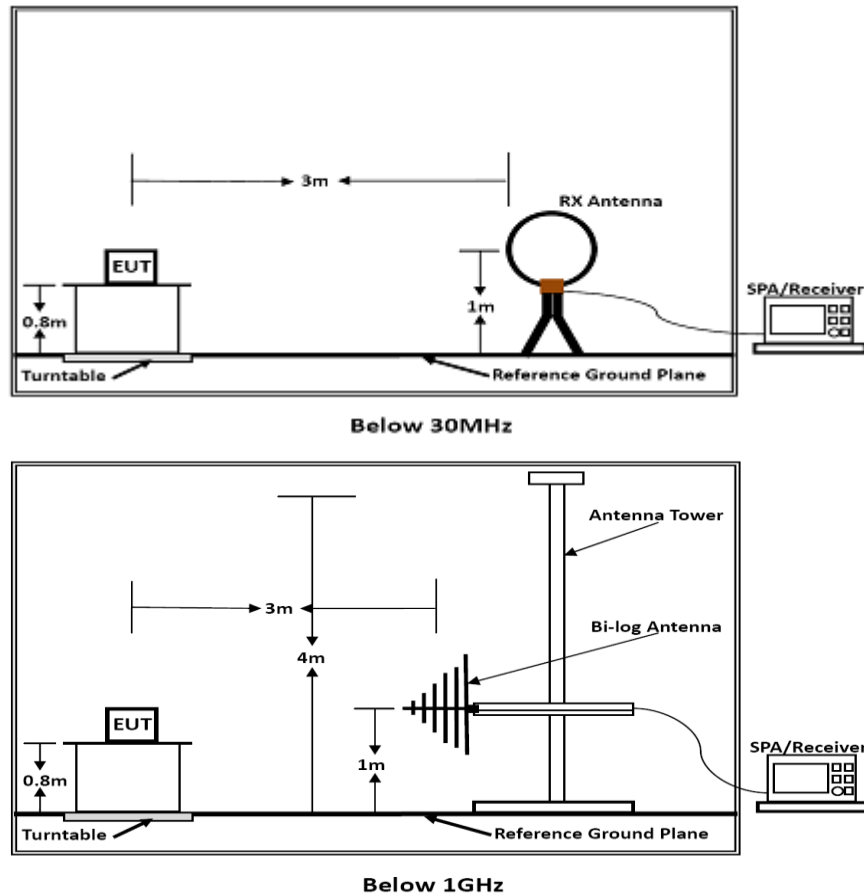


## 5. FIELD STRENGTH OF FUNDAMENTAL EMISSIONS AND MASK MEASUREMENT

### 5.1. Block Diagram of Test Setup



### 5.2. Field strength of fundamental emissions limit and Mask limit

The field strength of fundamental emissions shall not exceed 15848 microvolts/meter at 30 meters. The emissions limit in this paragraph is based on measurement instrumentation employing a QP detector.

| Frequencies (MHz)  | Field Strength (microvolts/meter) | Field Strength (dB $\mu$ V/m) at 10m | Field Strength (dB $\mu$ V/m) at 3m |
|--------------------|-----------------------------------|--------------------------------------|-------------------------------------|
| 13.553 ~ 13.567MHz | 15848 at 30m                      | 103.08 (QP)                          | 124 (QP)                            |

Mask Limit:

| Frequency (MHz) | Limit (dB $\mu$ V/m) | Distance (m) |
|-----------------|----------------------|--------------|
| 1.705-13.110    | 69.5                 | 3            |
| 13.110-13.410   | 80.5                 | 3            |
| 13.410-13.553   | 90.5                 | 3            |
| 13.553-13.567   | 124.0                | 3            |
| 13.567-13.710   | 90.5                 | 3            |
| 13.710-14.010   | 80.5                 | 3            |
| 14.010-30.000   | 69.5                 | 3            |

### 5.3. Test Results

|               |             |                |       |
|---------------|-------------|----------------|-------|
| Temperature   | 24.5℃       | Humidity       | 53.7% |
| Test Engineer | Lushan Kong | Configurations | NFC   |

PASS.

The test data please refer to following page:

#### Version A(Adapter: ADS-65HI-19A-124036F, NFC antenna Model:DS2-52):

|   | Freq.(MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin dB | Remark |
|---|------------|----------------|-------------|-----------------|----------------|-----------|--------|
| 1 | 13.24      | 30.94          | 20.18       | 51.12           | 80.50          | 29.38     | QP     |
| 2 | 13.45      | 32.92          | 20.18       | 53.10           | 90.50          | 37.40     | QP     |
| 3 | 13.56      | 42.34          | 20.18       | 62.52           | 124.00         | 61.48     | QP     |
| 4 | 13.54      | 25.60          | 20.18       | 45.78           | 90.50          | 44.72     | QP     |
| 5 | 13.68      | 32.81          | 20.18       | 52.99           | 90.50          | 37.51     | QP     |
| 6 | 14.70      | 27.89          | 21.18       | 49.07           | 81.50          | 32.43     | QP     |

#### Version B(Adapter: ADS-65HI-19A-124036F, NFC antenna Model:DS2-52):

|   | Freq.(MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin dB | Remark |
|---|------------|----------------|-------------|-----------------|----------------|-----------|--------|
| 1 | 13.22      | 30.17          | 20.18       | 50.35           | 80.50          | 30.15     | QP     |
| 2 | 13.40      | 32.14          | 20.18       | 52.32           | 90.50          | 38.18     | QP     |
| 3 | 13.56      | 40.01          | 20.18       | 60.19           | 124.00         | 63.81     | QP     |
| 4 | 13.55      | 32.12          | 20.18       | 52.30           | 90.50          | 38.20     | QP     |
| 5 | 13.64      | 28.59          | 20.18       | 48.77           | 90.50          | 41.73     | QP     |
| 6 | 14.72      | 31.47          | 21.18       | 52.65           | 81.50          | 28.85     | QP     |

#### Version C(Adapter: ADS-65HI-19A-124036F, NFC antenna Model:DS2-52):

|   | Freq.(MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin dB | Remark |
|---|------------|----------------|-------------|-----------------|----------------|-----------|--------|
| 1 | 13.22      | 34.96          | 20.18       | 55.14           | 80.50          | 25.36     | QP     |
| 2 | 13.48      | 31.66          | 20.18       | 51.84           | 90.50          | 38.66     | QP     |
| 3 | 13.56      | 39.54          | 20.18       | 59.72           | 124.00         | 64.28     | QP     |
| 4 | 13.54      | 33.08          | 20.18       | 53.26           | 90.50          | 37.24     | QP     |
| 5 | 13.59      | 33.64          | 20.18       | 53.82           | 90.50          | 36.68     | QP     |
| 6 | 14.67      | 36.95          | 21.18       | 58.13           | 81.50          | 23.37     | QP     |

Version D(Adapter: ADS-65HI-19A-124036F, NFC antenna Model:DS2-52):

|   | Freq.(MHz) | Reading<br>(dBuV) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>dB | Remark |
|---|------------|-------------------|----------------|--------------------|-------------------|--------------|--------|
| 1 | 13.19      | 36.27             | 20.18          | 56.45              | 80.50             | 24.05        | QP     |
| 2 | 13.44      | 26.46             | 20.18          | 46.64              | 90.50             | 43.86        | QP     |
| 3 | 13.56      | 42.93             | 20.18          | 63.11              | 124.00            | 60.89        | QP     |
| 4 | 13.55      | 26.59             | 20.18          | 46.77              | 90.50             | 43.73        | QP     |
| 5 | 13.61      | 26.51             | 20.18          | 46.69              | 90.50             | 43.81        | QP     |
| 6 | 14.72      | 36.25             | 21.18          | 57.43              | 81.50             | 24.07        | QP     |

\*Note: Factor= Antenna Factor + Cable Loss

Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m).

Measured distance is 3m.

All emissions emit from non-NFC function of digital unintentional emissions. All NFC's spurious emissions are below 20dB of limits.

**NOTE: All the modes have been tested and recorded worst mode in the report.**

6. BANDWIDTH OF THE OPERATING FREQUENCY

6.1. Standard Applicable

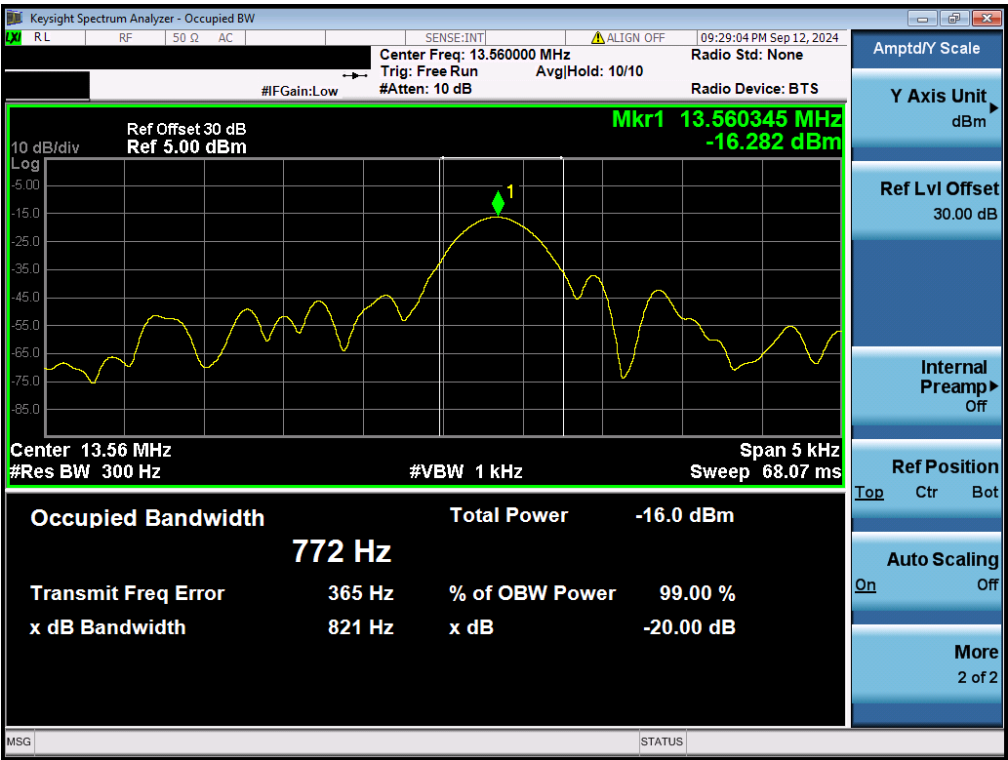
Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the specific band (13.553 ~ 13.567MHz).

6.2. Test Result

|               |             |                |       |
|---------------|-------------|----------------|-------|
| Temperature   | 24.5℃       | Humidity       | 53.7% |
| Test Engineer | Lushan Kong | Configurations | NFC   |

|                         |                      |                      |                      |
|-------------------------|----------------------|----------------------|----------------------|
| Carrier Frequency (MHz) | 20dB Bandwidth (KHz) | F <sub>L</sub> (MHz) | F <sub>H</sub> (MHz) |
| 13.56                   | 0.821                | 13.5595895           | 13.5604105           |

Please refer to the test plot:



## 7. FREQUENCY STABILITY MEASUREMENT

### 7.1. Standard Applicable

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a full charged battery.

### 7.2. Test Result

|               |             |                |       |
|---------------|-------------|----------------|-------|
| Temperature   | 24.5°C      | Humidity       | 53.7% |
| Test Engineer | Lushan Kong | Configurations | NFC   |

#### Voltage vs. Frequency Stability

| Voltage(V) | Measurement Frequency (MHz) | Deviation (KHz) | Deviation (ppm) | Limit (ppm) |
|------------|-----------------------------|-----------------|-----------------|-------------|
| DC 26.4V   | 13.560028                   | 0.028           | 2.04            | 100         |
| DC 24.0V   | 13.560031                   | 0.031           | 2.27            | 100         |
| DC 21.6V   | 13.560046                   | 0.046           | 3.38            | 100         |

#### Temperature vs. Frequency Stability

| Temperature (°C) | Measurement Frequency (MHz) | Deviation (KHz) | Deviation (ppm) | Limit (ppm) |
|------------------|-----------------------------|-----------------|-----------------|-------------|
| -20              | 13.560091                   | 0.09            | 6.70            | 100         |
| -10              | 13.560718                   | 0.72            | 52.92           | 100         |
| 0                | 13.560747                   | 0.75            | 55.06           | 100         |
| 10               | 13.560936                   | 0.94            | 69.02           | 100         |
| 20               | 13.560137                   | 0.14            | 10.13           | 100         |
| 30               | 13.560420                   | 0.42            | 31.01           | 100         |
| 40               | 13.560760                   | 0.76            | 56.08           | 100         |
| 45               | 13.560456                   | 0.46            | 33.65           | 100         |

## 8. LINE CONDUCTED EMISSIONS

### 8.1. Standard Applicable

According to §15.207(a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

| Frequency Range (MHz) | Limits (dBμV) |          |
|-----------------------|---------------|----------|
|                       | Quasi-peak    | Average  |
| 0.15 to 0.50          | 66 to 56      | 56 to 46 |
| 0.50 to 5             | 56            | 46       |
| 5 to 30               | 60            | 50       |

\* Decreasing linearly with the logarithm of the frequency

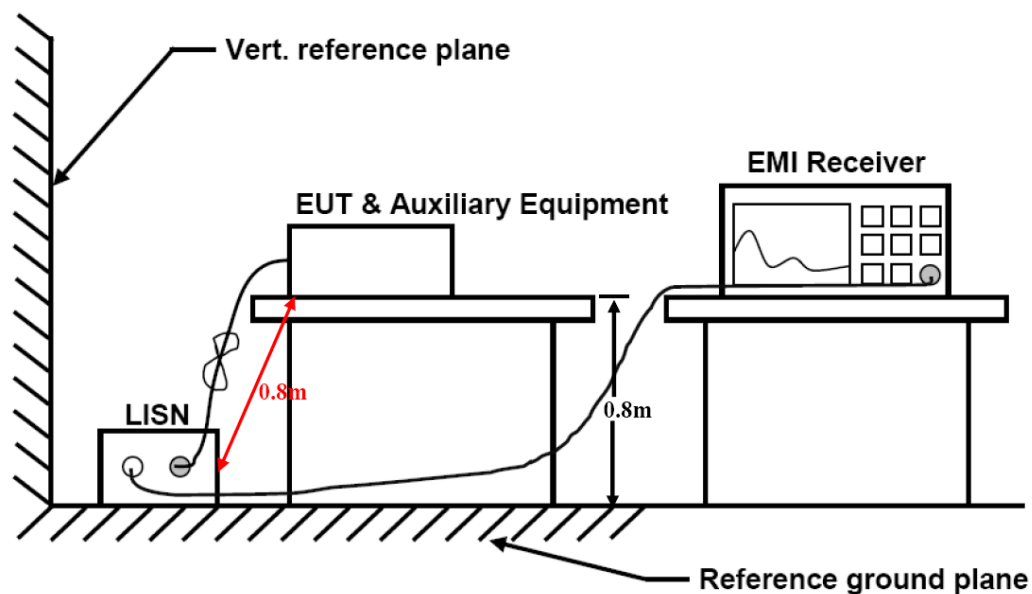
### DISTURBANCE Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$CD \text{ (dBμV)} = RA \text{ (dBμV)} + PL \text{ (dB)} + CL \text{ (dB)}$$

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| Where CD = Conducted Disturbance | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude           | PL = 10 dB Pulse Limiter Factor            |

### 8.2. Block Diagram of Test Setup



### 8.3. Test Results

|               |             |                |       |
|---------------|-------------|----------------|-------|
| Temperature   | 24.5°C      | Humidity       | 53.7% |
| Test Engineer | Lushan Kong | Configurations | NFC   |

Version A:  
Adapter: ADS-65HI-19A-124036F

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | L |
|---------------|--------------|--------------|---|

**Test Graph**

**Final Data List**

| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.159     | 45.46         | 24.97           | 10.31  | 55.77        | 35.28          | 65.52       | 55.52         | 9.75         | 20.24          | L1   | PASS   |
| 2   | 0.1995    | 40.41         | 23.98           | 10.15  | 50.56        | 34.13          | 63.63       | 53.63         | 13.07        | 19.50          | L1   | PASS   |
| 3   | 0.5145    | 31.13         | 19.57           | 10.24  | 41.37        | 29.81          | 56.00       | 46.00         | 14.63        | 16.19          | L1   | PASS   |
| 4   | 1.1895    | 29.09         | 17.75           | 10.21  | 39.30        | 27.96          | 56.00       | 46.00         | 16.70        | 18.04          | L1   | PASS   |
| 5   | 3.201     | 25.70         | 13.06           | 10.35  | 36.05        | 23.41          | 56.00       | 46.00         | 19.95        | 22.59          | L1   | PASS   |
| 6   | 9.6945    | 29.18         | 19.39           | 10.57  | 39.75        | 29.96          | 60.00       | 50.00         | 20.25        | 20.04          | L1   | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | N |
|---------------|--------------|--------------|---|

**Test Graph**

**Final Data List**

| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.15      | 43.67         | 28.16           | 10.35  | 54.02        | 38.51          | 66.00       | 56.00         | 11.98        | 17.49          | N    | PASS   |
| 2   | 0.1995    | 38.83         | 21.68           | 10.15  | 48.98        | 31.83          | 63.63       | 53.63         | 14.65        | 21.80          | N    | PASS   |
| 3   | 0.528     | 33.19         | 29.67           | 10.23  | 43.42        | 39.90          | 56.00       | 46.00         | 12.58        | 6.10           | N    | PASS   |
| 4   | 1.3875    | 30.77         | 20.63           | 10.23  | 41.00        | 30.86          | 56.00       | 46.00         | 15.00        | 15.14          | N    | PASS   |
| 5   | 3.165     | 30.37         | 17.61           | 10.34  | 40.71        | 27.95          | 56.00       | 46.00         | 15.29        | 18.05          | N    | PASS   |
| 6   | 9.708     | 29.96         | 19.95           | 10.57  | 40.53        | 30.52          | 60.00       | 50.00         | 19.47        | 19.48          | N    | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

## Adapter: SOY-2400150-332-A

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | L |
|---------------|--------------|--------------|---|

**Test Graph**

**Final Data List**

| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.1545    | 43.62         | 25.50           | 10.33  | 53.95        | 35.83          | 65.75       | 55.75         | 11.80        | 19.92          | L1   | PASS   |
| 2   | 0.177     | 43.09         | 23.70           | 10.22  | 53.31        | 33.92          | 64.63       | 54.63         | 11.32        | 20.71          | L1   | PASS   |
| 3   | 0.4875    | 31.06         | 23.06           | 10.25  | 41.31        | 33.31          | 56.21       | 46.21         | 14.90        | 12.90          | L1   | PASS   |
| 4   | 1.23      | 28.25         | 20.21           | 10.22  | 38.47        | 30.43          | 56.00       | 46.00         | 17.53        | 15.57          | L1   | PASS   |
| 5   | 3.039     | 25.73         | 11.15           | 10.34  | 36.07        | 21.49          | 56.00       | 46.00         | 19.93        | 24.51          | L1   | PASS   |
| 6   | 9.4245    | 28.93         | 19.39           | 10.56  | 39.49        | 29.95          | 60.00       | 50.00         | 20.51        | 20.05          | L1   | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | N |
|---------------|--------------|--------------|---|

**Test Graph**

**Final Data List**

| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.15      | 43.47         | 24.19           | 10.35  | 53.82        | 34.54          | 66.00       | 56.00         | 12.18        | 21.46          | N    | PASS   |
| 2   | 0.177     | 40.48         | 25.01           | 10.22  | 50.70        | 35.23          | 64.63       | 54.63         | 13.93        | 19.40          | N    | PASS   |
| 3   | 0.5235    | 33.57         | 28.15           | 10.24  | 43.81        | 38.39          | 56.00       | 46.00         | 12.19        | 7.61           | N    | PASS   |
| 4   | 1.437     | 31.95         | 23.17           | 10.23  | 42.18        | 33.40          | 56.00       | 46.00         | 13.82        | 12.60          | N    | PASS   |
| 5   | 2.742     | 31.60         | 16.36           | 10.32  | 41.92        | 26.68          | 56.00       | 46.00         | 14.08        | 19.32          | N    | PASS   |
| 6   | 9.5505    | 30.33         | 21.11           | 10.57  | 40.90        | 31.68          | 60.00       | 50.00         | 19.10        | 18.32          | N    | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Adapter: CYZS36-240150

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | L |
|---------------|--------------|--------------|---|

**Test Graph**

**Final Data List**

| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.15      | 44.25         | 28.80           | 10.35  | 54.60        | 39.15          | 66.00       | 56.00         | 11.40        | 16.85          | L1   | PASS   |
| 2   | 0.1905    | 40.54         | 21.37           | 10.16  | 50.70        | 31.53          | 64.01       | 54.01         | 13.31        | 22.48          | L1   | PASS   |
| 3   | 0.51      | 30.88         | 24.14           | 10.25  | 41.13        | 34.39          | 56.00       | 46.00         | 14.87        | 11.61          | L1   | PASS   |
| 4   | 1.2705    | 28.66         | 21.49           | 10.22  | 38.88        | 31.71          | 56.00       | 46.00         | 17.12        | 14.29          | L1   | PASS   |
| 5   | 3.0525    | 25.59         | 13.32           | 10.34  | 35.93        | 23.66          | 56.00       | 46.00         | 20.07        | 22.34          | L1   | PASS   |
| 6   | 9.681     | 29.88         | 20.46           | 10.57  | 40.45        | 31.03          | 60.00       | 50.00         | 19.55        | 18.97          | L1   | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | N |
|---------------|--------------|--------------|---|

**Test Graph**

**Final Data List**

| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.15      | 42.94         | 20.13           | 10.35  | 53.29        | 30.48          | 66.00       | 56.00         | 12.71        | 25.52          | N    | PASS   |
| 2   | 0.1725    | 40.10         | 26.75           | 10.24  | 50.34        | 36.99          | 64.84       | 54.84         | 14.50        | 17.85          | N    | PASS   |
| 3   | 0.519     | 34.29         | 25.02           | 10.24  | 44.53        | 35.26          | 56.00       | 46.00         | 11.47        | 10.74          | N    | PASS   |
| 4   | 1.2795    | 32.94         | 18.48           | 10.22  | 43.16        | 28.70          | 56.00       | 46.00         | 12.84        | 17.30          | N    | PASS   |
| 5   | 3.0795    | 31.05         | 17.95           | 10.34  | 41.39        | 28.29          | 56.00       | 46.00         | 14.61        | 17.71          | N    | PASS   |
| 6   | 9.5685    | 30.81         | 22.12           | 10.57  | 41.38        | 32.69          | 60.00       | 50.00         | 18.62        | 17.31          | N    | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Version B:  
Adapter: ADS-65HI-19A-124036F

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | L |
|---------------|--------------|--------------|---|

**Test Graph**

**Final Data List**

| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.1635    | 38.78         | 15.14           | 10.29  | 49.07        | 25.43          | 65.28       | 55.28         | 16.21        | 29.85          | L1   | PASS   |
| 2   | 0.5235    | 22.96         | 13.43           | 10.24  | 33.20        | 23.67          | 56.00       | 46.00         | 22.80        | 22.33          | L1   | PASS   |
| 3   | 1.2165    | 22.66         | 11.80           | 10.22  | 32.88        | 22.02          | 56.00       | 46.00         | 23.12        | 23.98          | L1   | PASS   |
| 4   | 3.075     | 20.07         | 7.00            | 10.34  | 30.41        | 17.34          | 56.00       | 46.00         | 25.59        | 28.66          | L1   | PASS   |
| 5   | 6.603     | 21.14         | 11.61           | 10.50  | 31.64        | 22.11          | 60.00       | 50.00         | 28.36        | 27.89          | L1   | PASS   |
| 6   | 11.9715   | 18.36         | 9.51            | 10.81  | 29.17        | 20.32          | 60.00       | 50.00         | 30.83        | 29.68          | L1   | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | N |
|---------------|--------------|--------------|---|

**Test Graph**

**Final Data List**

| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.159     | 39.41         | 20.57           | 10.31  | 49.72        | 30.88          | 65.52       | 55.52         | 15.80        | 24.64          | N    | PASS   |
| 2   | 0.2355    | 30.56         | 13.69           | 10.13  | 40.69        | 23.82          | 62.25       | 52.25         | 21.56        | 28.43          | N    | PASS   |
| 3   | 0.5145    | 25.13         | 12.42           | 10.24  | 35.37        | 22.66          | 56.00       | 46.00         | 20.63        | 23.34          | N    | PASS   |
| 4   | 1.356     | 25.50         | 15.83           | 10.22  | 35.72        | 26.05          | 56.00       | 46.00         | 20.28        | 19.95          | N    | PASS   |
| 5   | 3.354     | 24.18         | 12.83           | 10.35  | 34.53        | 23.18          | 56.00       | 46.00         | 21.47        | 22.82          | N    | PASS   |
| 6   | 13.11     | 23.14         | 13.12           | 10.90  | 34.04        | 24.02          | 60.00       | 50.00         | 25.96        | 25.98          | N    | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

## Adapter: SOY-2400150-332-A

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | L |
|---------------|--------------|--------------|---|

**Test Graph**

**Final Data List**

| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.159     | 40.58         | 23.23           | 10.31  | 50.89        | 33.54          | 65.52       | 55.52         | 14.63        | 21.98          | L1   | PASS   |
| 2   | 0.1815    | 37.67         | 20.59           | 10.20  | 47.87        | 30.79          | 64.42       | 54.42         | 16.55        | 23.63          | L1   | PASS   |
| 3   | 0.519     | 24.28         | 12.75           | 10.24  | 34.52        | 22.99          | 56.00       | 46.00         | 21.48        | 23.01          | L1   | PASS   |
| 4   | 1.4325    | 23.56         | 11.57           | 10.23  | 33.79        | 21.80          | 56.00       | 46.00         | 22.21        | 24.20          | L1   | PASS   |
| 5   | 3.183     | 21.01         | 6.90            | 10.35  | 31.36        | 17.25          | 56.00       | 46.00         | 24.64        | 28.75          | L1   | PASS   |
| 6   | 6.6075    | 20.60         | 11.47           | 10.50  | 31.10        | 21.97          | 60.00       | 50.00         | 28.90        | 28.03          | L1   | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | N |
|---------------|--------------|--------------|---|

**Test Graph**

**Final Data List**

| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.168     | 36.82         | 19.04           | 10.27  | 47.09        | 29.31          | 65.06       | 55.06         | 17.97        | 25.75          | N    | PASS   |
| 2   | 0.204     | 34.00         | 17.53           | 10.15  | 44.15        | 27.68          | 63.45       | 53.45         | 19.30        | 25.77          | N    | PASS   |
| 3   | 0.5145    | 24.16         | 14.11           | 10.24  | 34.40        | 24.35          | 56.00       | 46.00         | 21.60        | 21.65          | N    | PASS   |
| 4   | 1.3155    | 24.53         | 18.28           | 10.22  | 34.75        | 28.50          | 56.00       | 46.00         | 21.25        | 17.50          | N    | PASS   |
| 5   | 3.327     | 24.25         | 12.09           | 10.35  | 34.60        | 22.44          | 56.00       | 46.00         | 21.40        | 23.56          | N    | PASS   |
| 6   | 13.5555   | 24.47         | 16.73           | 10.88  | 35.35        | 27.61          | 60.00       | 50.00         | 24.65        | 22.39          | N    | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

## Adapter: CYZS36-240150

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | L |
|---------------|--------------|--------------|---|

**Test Graph**

**Final Data List**

| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.15      | 40.53         | 20.54           | 10.35  | 50.88        | 30.89          | 66.00       | 56.00         | 15.12        | 25.11          | L1   | PASS   |
| 2   | 0.24      | 32.07         | 14.76           | 10.13  | 42.20        | 24.89          | 62.10       | 52.10         | 19.90        | 27.21          | L1   | PASS   |
| 3   | 0.519     | 23.70         | 14.96           | 10.24  | 33.94        | 25.20          | 56.00       | 46.00         | 22.06        | 20.80          | L1   | PASS   |
| 4   | 1.248     | 26.24         | 14.16           | 10.22  | 36.46        | 24.38          | 56.00       | 46.00         | 19.54        | 21.62          | L1   | PASS   |
| 5   | 3.1875    | 20.59         | 5.53            | 10.35  | 30.94        | 15.88          | 56.00       | 46.00         | 25.06        | 30.12          | L1   | PASS   |
| 6   | 6.3915    | 19.38         | 8.06            | 10.50  | 29.88        | 18.56          | 60.00       | 50.00         | 30.12        | 31.44          | L1   | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | N |
|---------------|--------------|--------------|---|

**Test Graph**

**Final Data List**

| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.1545    | 39.59         | 19.72           | 10.33  | 49.92        | 30.05          | 65.75       | 55.75         | 15.83        | 25.70          | N    | PASS   |
| 2   | 0.1905    | 36.54         | 15.93           | 10.16  | 46.70        | 26.09          | 64.01       | 54.01         | 17.31        | 27.92          | N    | PASS   |
| 3   | 0.528     | 23.47         | 11.66           | 10.23  | 33.70        | 21.89          | 56.00       | 46.00         | 22.30        | 24.11          | N    | PASS   |
| 4   | 1.3155    | 25.41         | 14.57           | 10.22  | 35.63        | 24.79          | 56.00       | 46.00         | 20.37        | 21.21          | N    | PASS   |
| 5   | 2.8635    | 25.17         | 7.58            | 10.33  | 35.50        | 17.91          | 56.00       | 46.00         | 20.50        | 28.09          | N    | PASS   |
| 6   | 13.56     | 29.18         | 25.75           | 10.88  | 40.06        | 36.63          | 60.00       | 50.00         | 19.94        | 13.37          | N    | PASS   |

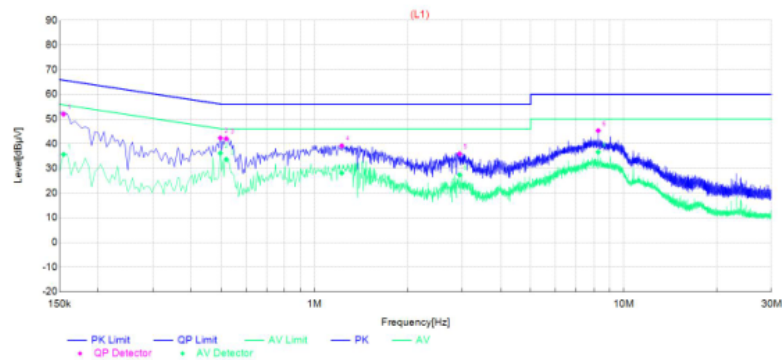
Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Version C:  
Adapter: ADS-65HI-19A-124036F

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | L |
|---------------|--------------|--------------|---|

Test Graph



Final Data List

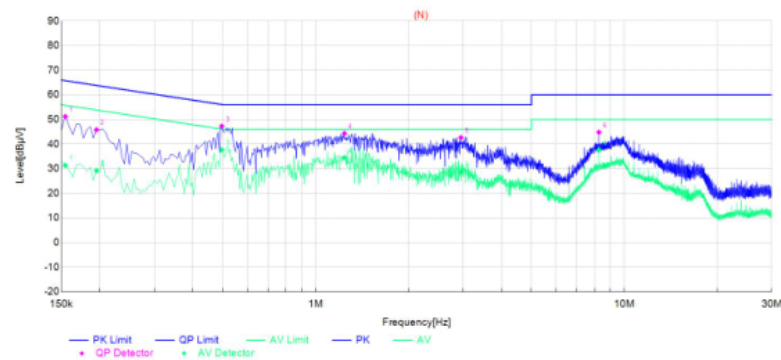
| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.1545    | 41.64         | 25.33           | 10.33  | 51.97        | 35.66          | 65.75       | 55.75         | 13.78        | 20.09          | L1   | PASS   |
| 2   | 0.4965    | 32.04         | 25.91           | 10.25  | 42.29        | 36.16          | 56.06       | 46.06         | 13.77        | 9.90           | L1   | PASS   |
| 3   | 0.519     | 31.78         | 23.40           | 10.24  | 42.02        | 33.64          | 56.00       | 46.00         | 13.98        | 12.36          | L1   | PASS   |
| 4   | 1.2255    | 28.96         | 17.85           | 10.22  | 39.18        | 28.07          | 56.00       | 46.00         | 16.82        | 17.93          | L1   | PASS   |
| 5   | 2.9445    | 25.55         | 17.03           | 10.34  | 35.89        | 27.37          | 56.00       | 46.00         | 20.11        | 18.63          | L1   | PASS   |
| 6   | 8.2635    | 34.72         | 26.01           | 10.57  | 45.29        | 36.58          | 60.00       | 50.00         | 14.71        | 13.42          | L1   | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | N |
|---------------|--------------|--------------|---|

Test Graph



Final Data List

| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.1545    | 40.85         | 21.00           | 10.33  | 51.18        | 31.33          | 65.75       | 55.75         | 14.57        | 24.42          | N    | PASS   |
| 2   | 0.195     | 35.66         | 19.06           | 10.16  | 45.82        | 29.22          | 63.82       | 53.82         | 18.00        | 24.60          | N    | PASS   |
| 3   | 0.4965    | 37.01         | 27.44           | 10.25  | 47.26        | 37.69          | 56.06       | 46.06         | 8.80         | 8.37           | N    | PASS   |
| 4   | 1.239     | 34.10         | 24.29           | 10.22  | 44.32        | 34.51          | 56.00       | 46.00         | 11.68        | 11.49          | N    | PASS   |
| 5   | 2.9535    | 32.27         | 18.42           | 10.34  | 42.61        | 28.76          | 56.00       | 46.00         | 13.39        | 17.24          | N    | PASS   |
| 6   | 8.268     | 34.23         | 26.97           | 10.57  | 44.80        | 37.54          | 60.00       | 50.00         | 15.20        | 12.46          | N    | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

## Adapter: SOY-2400150-332-A

| Power supply:                                         | AC 120V/60Hz | Polarization  | L               |        |              |                |             |               |              |                |      |        |
|-------------------------------------------------------|--------------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| Test Graph                                            |              |               |                 |        |              |                |             |               |              |                |      |        |
|                                                       |              |               |                 |        |              |                |             |               |              |                |      |        |
| Final Data List                                       |              |               |                 |        |              |                |             |               |              |                |      |        |
| NO.                                                   | Frequency    | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
| 1                                                     | 0.1545       | 42.38         | 26.08           | 10.33  | 52.71        | 36.41          | 65.75       | 55.75         | 13.04        | 19.34          | L1   | PASS   |
| 2                                                     | 0.492        | 31.62         | 26.07           | 10.26  | 41.88        | 36.33          | 56.13       | 46.13         | 14.25        | 9.80           | L1   | PASS   |
| 3                                                     | 0.519        | 31.87         | 20.07           | 10.24  | 42.11        | 30.31          | 56.00       | 46.00         | 13.89        | 15.69          | L1   | PASS   |
| 4                                                     | 1.275        | 29.01         | 21.38           | 10.22  | 39.23        | 31.60          | 56.00       | 46.00         | 16.77        | 14.40          | L1   | PASS   |
| 5                                                     | 3.003        | 26.78         | 13.42           | 10.34  | 37.12        | 23.76          | 56.00       | 46.00         | 18.88        | 22.24          | L1   | PASS   |
| 6                                                     | 8.2635       | 35.24         | 27.04           | 10.57  | 45.81        | 37.61          | 60.00       | 50.00         | 14.19        | 12.39          | L1   | PASS   |
| Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB). |              |               |                 |        |              |                |             |               |              |                |      |        |
| 2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).  |              |               |                 |        |              |                |             |               |              |                |      |        |

| Power supply:                                         | AC 120V/60Hz | Polarization  | N               |        |              |                |             |               |              |                |      |        |
|-------------------------------------------------------|--------------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| Test Graph                                            |              |               |                 |        |              |                |             |               |              |                |      |        |
|                                                       |              |               |                 |        |              |                |             |               |              |                |      |        |
| Final Data List                                       |              |               |                 |        |              |                |             |               |              |                |      |        |
| NO.                                                   | Frequency    | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
| 1                                                     | 0.1635       | 39.66         | 16.46           | 10.29  | 49.95        | 26.75          | 65.28       | 55.28         | 15.33        | 28.53          | N    | PASS   |
| 2                                                     | 0.5235       | 36.02         | 22.80           | 10.24  | 46.26        | 33.04          | 56.00       | 46.00         | 9.74         | 12.96          | N    | PASS   |
| 3                                                     | 1.347        | 32.65         | 23.34           | 10.22  | 42.87        | 33.56          | 56.00       | 46.00         | 13.13        | 12.44          | N    | PASS   |
| 4                                                     | 2.9265       | 32.66         | 21.05           | 10.33  | 42.99        | 31.38          | 56.00       | 46.00         | 13.01        | 14.62          | N    | PASS   |
| 5                                                     | 8.2635       | 34.50         | 26.78           | 10.57  | 45.07        | 37.35          | 60.00       | 50.00         | 14.93        | 12.65          | N    | PASS   |
| 6                                                     | 9.0915       | 32.62         | 24.77           | 10.55  | 43.17        | 35.32          | 60.00       | 50.00         | 16.83        | 14.68          | N    | PASS   |
| Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB). |              |               |                 |        |              |                |             |               |              |                |      |        |
| 2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).  |              |               |                 |        |              |                |             |               |              |                |      |        |

## Adapter: CYZS36-240150

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | L |
|---------------|--------------|--------------|---|

**Test Graph**

**Final Data List**

| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.159     | 42.36         | 25.62           | 10.31  | 52.67        | 35.93          | 65.52       | 55.52         | 12.85        | 19.59          | L1   | PASS   |
| 2   | 0.177     | 39.93         | 20.15           | 10.22  | 50.15        | 30.37          | 64.63       | 54.63         | 14.48        | 24.26          | L1   | PASS   |
| 3   | 0.519     | 33.04         | 25.14           | 10.24  | 43.28        | 35.38          | 56.00       | 46.00         | 12.72        | 10.62          | L1   | PASS   |
| 4   | 1.284     | 29.71         | 20.64           | 10.22  | 39.93        | 30.86          | 56.00       | 46.00         | 16.07        | 15.14          | L1   | PASS   |
| 5   | 2.958     | 26.29         | 14.99           | 10.34  | 36.63        | 25.33          | 56.00       | 46.00         | 19.37        | 20.67          | L1   | PASS   |
| 6   | 8.2635    | 34.89         | 27.36           | 10.57  | 45.46        | 37.93          | 60.00       | 50.00         | 14.54        | 12.07          | L1   | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | N |
|---------------|--------------|--------------|---|

**Test Graph**

**Final Data List**

| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.15      | 41.29         | 19.65           | 10.35  | 51.64        | 30.00          | 66.00       | 56.00         | 14.36        | 26.00          | N    | PASS   |
| 2   | 0.5235    | 37.18         | 28.44           | 10.24  | 47.42        | 38.68          | 56.00       | 46.00         | 8.58         | 7.32           | N    | PASS   |
| 3   | 1.338     | 34.47         | 25.26           | 10.22  | 44.69        | 35.48          | 56.00       | 46.00         | 11.31        | 10.52          | N    | PASS   |
| 4   | 2.8185    | 31.70         | 22.92           | 10.33  | 42.03        | 33.25          | 56.00       | 46.00         | 13.97        | 12.75          | N    | PASS   |
| 5   | 8.2635    | 33.38         | 25.74           | 10.57  | 43.95        | 36.31          | 60.00       | 50.00         | 16.05        | 13.69          | N    | PASS   |
| 6   | 9.321     | 32.80         | 21.23           | 10.56  | 43.36        | 31.79          | 60.00       | 50.00         | 16.64        | 18.21          | N    | PASS   |

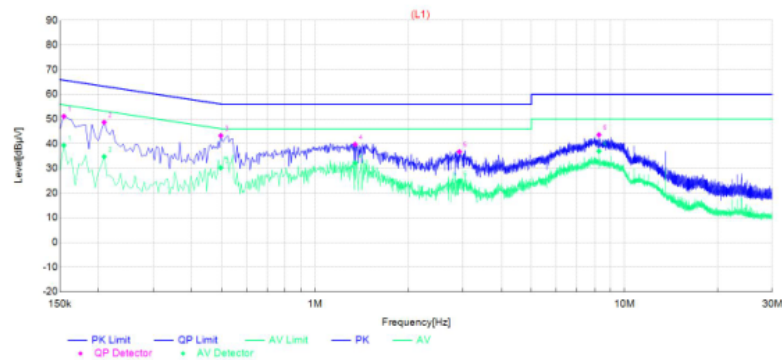
Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Version D:  
Adapter: ADS-65HI-19A-124036F

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | L |
|---------------|--------------|--------------|---|

Test Graph



Final Data List

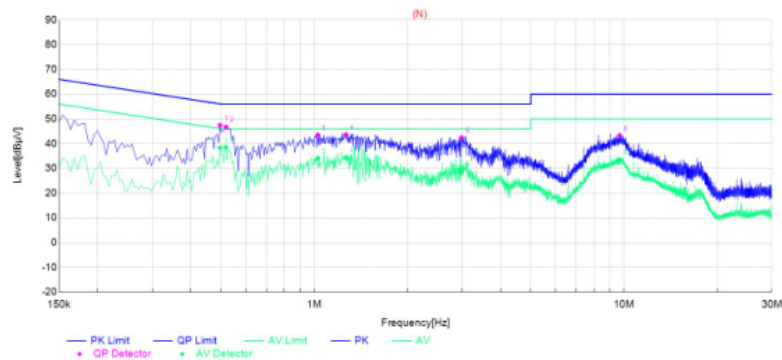
| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.1545    | 40.76         | 29.01           | 10.33  | 51.09        | 39.34          | 65.75       | 55.75         | 14.66        | 16.41          | L1   | PASS   |
| 2   | 0.2085    | 38.52         | 24.61           | 10.15  | 48.67        | 34.76          | 63.26       | 53.26         | 14.59        | 18.50          | L1   | PASS   |
| 3   | 0.4965    | 33.03         | 19.97           | 10.25  | 43.28        | 30.22          | 56.06       | 46.06         | 12.78        | 15.84          | L1   | PASS   |
| 4   | 1.347     | 29.51         | 21.91           | 10.22  | 39.73        | 32.13          | 56.00       | 46.00         | 16.27        | 13.87          | L1   | PASS   |
| 5   | 2.9265    | 26.40         | 14.45           | 10.33  | 36.73        | 24.78          | 56.00       | 46.00         | 19.27        | 21.22          | L1   | PASS   |
| 6   | 8.2635    | 33.02         | 26.41           | 10.57  | 43.59        | 36.98          | 60.00       | 50.00         | 16.41        | 13.02          | L1   | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | N |
|---------------|--------------|--------------|---|

Test Graph



Final Data List

| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.4965    | 37.17         | 28.08           | 10.25  | 47.42        | 38.33          | 56.06       | 46.06         | 8.64         | 7.73           | N    | PASS   |
| 2   | 0.519     | 36.49         | 28.27           | 10.24  | 46.73        | 38.51          | 56.00       | 46.00         | 9.27         | 7.49           | N    | PASS   |
| 3   | 1.0275    | 33.31         | 23.90           | 10.20  | 43.51        | 34.10          | 56.00       | 46.00         | 12.49        | 11.90          | N    | PASS   |
| 4   | 1.266     | 33.39         | 24.14           | 10.22  | 43.61        | 34.36          | 56.00       | 46.00         | 12.39        | 11.64          | N    | PASS   |
| 5   | 2.9895    | 32.02         | 18.46           | 10.34  | 42.36        | 28.80          | 56.00       | 46.00         | 13.64        | 17.20          | N    | PASS   |
| 6   | 9.6675    | 32.75         | 23.02           | 10.57  | 43.32        | 33.59          | 60.00       | 50.00         | 16.68        | 16.41          | N    | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

## Adapter: SOY-2400150-332-A

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | L |
|---------------|--------------|--------------|---|

Test Graph

Final Data List

| NO. | Frequency | QP Reading | AVG. Reading | Factor | QP Result | AVG. Result | QP Limit | AVG. Limit | QP Margin | AVG. Margin | Line | Remark |
|-----|-----------|------------|--------------|--------|-----------|-------------|----------|------------|-----------|-------------|------|--------|
| 1   | 0.15      | 42.43      | 27.20        | 10.35  | 52.78     | 37.55       | 66.00    | 56.00      | 13.22     | 18.45       | L1   | PASS   |
| 2   | 0.177     | 39.28      | 25.06        | 10.22  | 49.50     | 35.28       | 64.63    | 54.63      | 15.13     | 19.35       | L1   | PASS   |
| 3   | 0.5235    | 33.12      | 24.46        | 10.24  | 43.36     | 34.70       | 56.00    | 46.00      | 12.64     | 11.30       | L1   | PASS   |
| 4   | 1.392     | 30.65      | 20.11        | 10.23  | 40.88     | 30.34       | 56.00    | 46.00      | 15.12     | 15.66       | L1   | PASS   |
| 5   | 3.1155    | 27.06      | 14.58        | 10.34  | 37.40     | 24.92       | 56.00    | 46.00      | 18.60     | 21.08       | L1   | PASS   |
| 6   | 8.2635    | 34.42      | 25.95        | 10.57  | 44.99     | 36.52       | 60.00    | 50.00      | 15.01     | 13.48       | L1   | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | N |
|---------------|--------------|--------------|---|

Test Graph

Final Data List

| NO. | Frequency | QP Reading | AVG. Reading | Factor | QP Result | AVG. Result | QP Limit | AVG. Limit | QP Margin | AVG. Margin | Line | Remark |
|-----|-----------|------------|--------------|--------|-----------|-------------|----------|------------|-----------|-------------|------|--------|
| 1   | 0.1635    | 40.73      | 25.93        | 10.29  | 51.02     | 36.22       | 65.28    | 55.28      | 14.26     | 19.06       | N    | PASS   |
| 2   | 0.492     | 36.22      | 31.86        | 10.26  | 46.48     | 42.12       | 56.13    | 46.13      | 9.65      | 4.01        | N    | PASS   |
| 3   | 0.528     | 36.65      | 29.05        | 10.23  | 46.88     | 39.28       | 56.00    | 46.00      | 9.12      | 6.72        | N    | PASS   |
| 4   | 1.2885    | 34.30      | 21.77        | 10.22  | 44.52     | 31.99       | 56.00    | 46.00      | 11.48     | 14.01       | N    | PASS   |
| 5   | 2.9085    | 31.93      | 19.81        | 10.33  | 42.26     | 30.14       | 56.00    | 46.00      | 13.74     | 15.86       | N    | PASS   |
| 6   | 8.259     | 32.80      | 24.54        | 10.57  | 43.37     | 35.11       | 60.00    | 50.00      | 16.63     | 14.89       | N    | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

## Adapter: CYZS36-240150

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | L |
|---------------|--------------|--------------|---|

**Test Graph**

**Final Data List**

| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.1545    | 41.14         | 20.28           | 10.33  | 51.47        | 30.61          | 65.75       | 55.75         | 14.28        | 25.14          | L1   | PASS   |
| 2   | 0.186     | 38.14         | 18.24           | 10.18  | 48.32        | 28.42          | 64.21       | 54.21         | 15.89        | 25.79          | L1   | PASS   |
| 3   | 0.5145    | 32.30         | 24.39           | 10.24  | 42.54        | 34.63          | 56.00       | 46.00         | 13.46        | 11.37          | L1   | PASS   |
| 4   | 1.3425    | 29.67         | 20.64           | 10.22  | 39.89        | 30.86          | 56.00       | 46.00         | 16.11        | 15.14          | L1   | PASS   |
| 5   | 2.9535    | 27.26         | 14.70           | 10.34  | 37.60        | 25.04          | 56.00       | 46.00         | 18.40        | 20.96          | L1   | PASS   |
| 6   | 8.259     | 34.80         | 26.90           | 10.57  | 45.37        | 37.47          | 60.00       | 50.00         | 14.63        | 12.53          | L1   | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | N |
|---------------|--------------|--------------|---|

**Test Graph**

**Final Data List**

| NO. | Frequency | QP<br>Reading | AVG.<br>Reading | Factor | QP<br>Result | AVG.<br>Result | QP<br>Limit | AVG.<br>Limit | QP<br>Margin | AVG.<br>Margin | Line | Remark |
|-----|-----------|---------------|-----------------|--------|--------------|----------------|-------------|---------------|--------------|----------------|------|--------|
| 1   | 0.177     | 38.58         | 24.14           | 10.22  | 48.80        | 34.36          | 64.63       | 54.63         | 15.83        | 20.27          | N    | PASS   |
| 2   | 0.537     | 36.72         | 30.03           | 10.23  | 46.95        | 40.26          | 56.00       | 46.00         | 9.05         | 5.74           | N    | PASS   |
| 3   | 1.095     | 32.78         | 25.00           | 10.21  | 42.99        | 35.21          | 56.00       | 46.00         | 13.01        | 10.79          | N    | PASS   |
| 4   | 1.428     | 31.03         | 28.08           | 10.23  | 41.26        | 38.31          | 56.00       | 46.00         | 14.74        | 7.69           | N    | PASS   |
| 5   | 2.76      | 29.77         | 22.71           | 10.32  | 40.09        | 33.03          | 56.00       | 46.00         | 15.91        | 12.97          | N    | PASS   |
| 6   | 8.259     | 33.84         | 26.15           | 10.57  | 44.41        | 36.72          | 60.00       | 50.00         | 15.59        | 13.28          | N    | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

Note: All modes have been tested and the worst mode is recorded in the report, NFC has two optional antennas, with the worst mode recorded in the report (NFC antenna Model:DS2-52).

## **9. ANTENNA REQUIREMENTS**

### **9.1. Standard Applicable**

According to antenna requirement of §15.203.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

### **9.2. Antenna Connected Construction**

#### **9.2.1. Standard Applicable**

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

#### **9.2.2. Antenna Connector Construction**

The gains of antenna used for transmitting is 0dBi, and the antenna is a Loop antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details.

#### **9.2.3. Results: Compliance.**

## 10. TEST SETUP PHOTOS OF THE EUT

Photo of Radiated Emissions Measurement

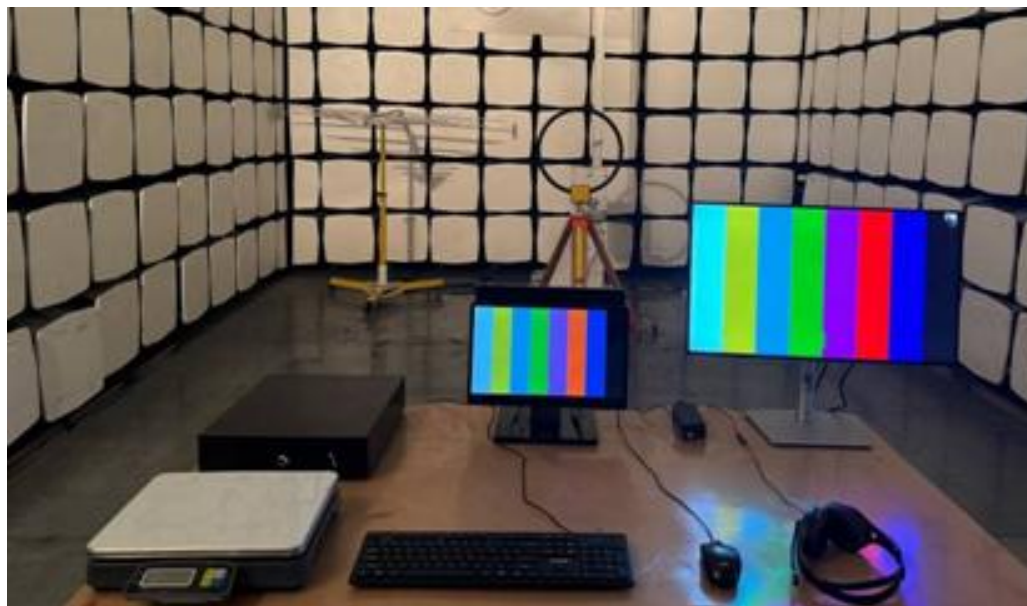


Fig. 1

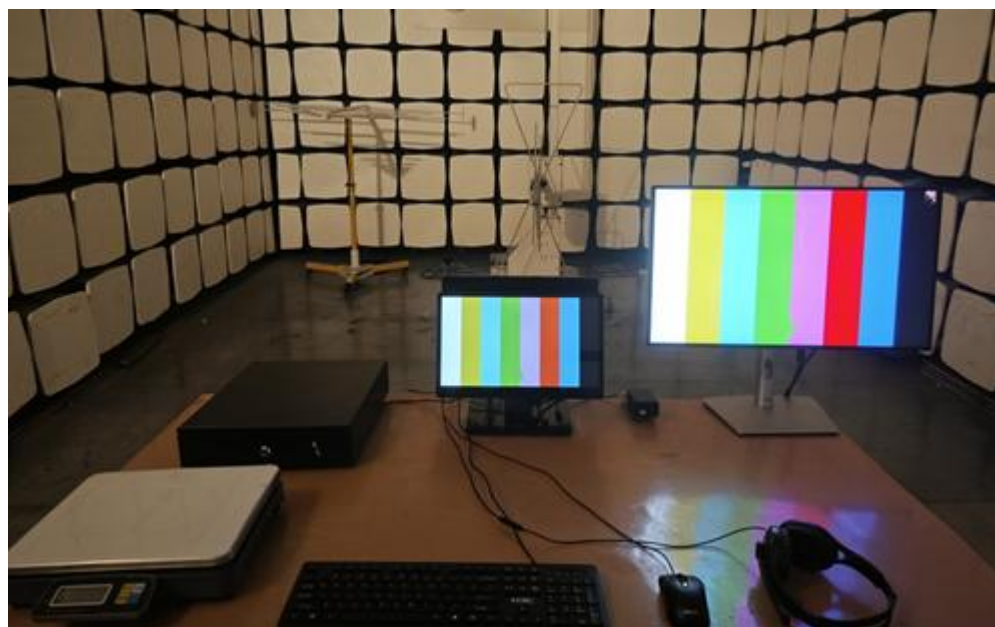


Fig. 2

Photo of Conducted Emission Measurement



Fig. 3

## **11. EXTERNAL AND INTERNAL PHOTOS OF THE EUT**

Reference to the Test Report: CTA24103100101.

.....**End of Report**.....