

**FCC 15.231**  
**Above 70MHz Test Report**

**for**

**Chungear Industrial Co., Ltd**

**12 Jingke 8th Rd Nantun District Taichung**  
**40852 Taiwan**

**Product Name : Ceiling Fan Remote  
Controller (Transmitter)**  
**Model Name : TR267A**  
**FCC ID : KUJCE10605**

**Prepared by: : AUDIX Technology Corporation,**  
**EMC Department**



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APPENDIX A TEST DATA AND PLOTS  
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## TEST REPORT CERTIFICATION

Applicant : Chungear Industrial Co., Ltd  
Manufacturer #1 : Chungear Industrial Co., Ltd  
Manufacturer #2 : Satellite Electronic (Zhongshan) Ltd.  
Manufacturer #3 : Zhongshan Amity Electronic Ltd.  
EUT Description  
(1) Product : Ceiling Fan Remote Controller (Transmitter)  
(2) Model : TR267A  
(3) Power Rating : AC 120V/60Hz

Applicable Standards:

47 CFR FCC Part 15 Subpart C  
ANSI C63.10:2013

**Audix Technology Corp.** tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

**Audix Technology Corp.** does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Report: 2017. 12. 25

Reviewed by: Annie Yu (Annie Yu/Administrator)

Approved by: Ben Cheng (Ben Cheng/Manager)

## 1. REVISION RECORD OF TEST REPORT

Edition No	Issued Data	Revision Summary	Report Number
0	2017. 12. 25	Original Report	EM-F170795

## 2. SUMMARY OF TEST RESULTS

<b>Rule</b>	<b>Description</b>	<b>Results</b>
15.207	Conducted Emission	<b>PASS</b>
15.209/15.231(b)	Radiated Spurious Emission and Fundamental Frequency	<b>PASS</b>
15.231(c)	Emission Bandwidth	<b>PASS</b>
15.231(a)(1)	Periodic Operated	<b>PASS</b>
15.203	Antenna Requirement	<b>Compliance</b>

### 3. GENERAL INFORMATION

#### 3.1. Description of Application

Applicant	Chungear Industrial Co., Ltd 12 Jingke 8th Rd Nantun District Taichung 40852 Taiwan
Manufacture	#1 Chungear Industrial Co., Ltd 12 Jingke 8th Rd Nantun District Taichung 40852 Taiwan #2 Satellite Electronic (Zhongshan) Ltd. 8 CHUANG YE RD.TORCH DEVELOPMENT ZONE..ZHONGSHAN.GUANGDONG.528437 CHINA #3 Zhongshan Amity Electronic Ltd. No. 16 Torch Hi-Tech Industrial Development Zone, Zhong Shan City Guangdong Province China.
Product	Ceiling Fan Remote Controller (Transmitter)
Model	TR267A

### 3.2. Description of EUT

Test Model	TR267A
Serial Number	N/A
Power Rating	AC 120V/60Hz
RF Features	ASK
Transmit Type	1T1R
Accessories	N/A
Date of Receipt	2017. 11. 07
Date of Test	2017. 11. 10 ~ 12. 25

### 3.3. EUT Specifications Assessed in Current Report

Mode	Fundamental Range (MHz)	Channel Number	Modulation
---	304.25	1	ASK

### 3.4. Antenna Information

No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain (dBi)
1	---	---	Single Antenna	---	---

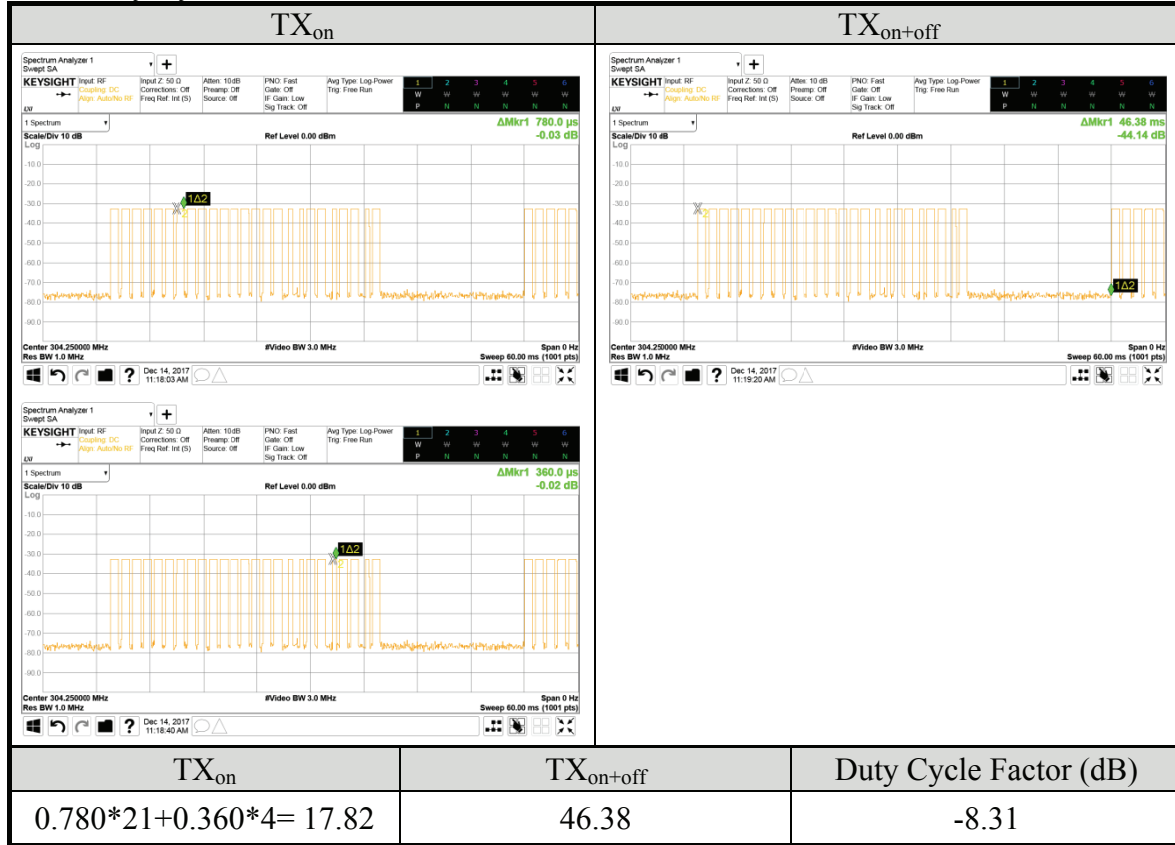
### 3.5. Description of Key Components

None.



### 3.6. Test Configuration

#### Duty Cycle



Item	Test Frequency
Radiated Spurious Emission and Fundamental Frequency	304.25MHz
Emission Bandwidth	304.25MHz
Periodic Operated	304.25MHz

Note 1:

- Mobile Device:
- Portable Device, and 3 axis were assessed, and the worst axis was Lie.
  - Lie
  - Side
  - Stand

### 3.7. Tested Supporting System List

None.

### **3.8. Setup Configuration**

#### **3.8.1. EUT Configuration for Radiated Emission**



#### **3.8.2. EUT Configuration for RF Conducted Test Items**



### **3.9. Operating Condition of EUT**

To Set EUT on RF function under continues transmitting.

### 3.10. Description of Test Facility

Name of Test Firm	Audix Technology Corporation / EMC Department No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan Tel: +886-2-26092133 Fax: +886-2-26099303 Website : www.audixtech.com Contact e-mail: attemc_report@audixtech.com
Accreditations	The laboratory is accredited by following organizations under ISO/IEC 17025:2005 (1) NVLAP(USA) NVLAP Lab Code 200077-0 (2) TAF(Taiwan) No. 1724 (3) FCC OET Designation No. TW1004 & TW1090 & TW1724
Test Facilities	(1) No. 7 Shielding Room (2) Semi-Anechoic Chamber (IC Test Site Registration No.: 5183B-1) (3) Fully Anechoic Chamber (IC Test Site Registration No.: 5183B-4)

### 3.11. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Conduction Test	150kHz~30MHz	±3.50dB
Radiation Test (Distance: 3m)	9kHz~30MHz	± 0.5dB
	30MHz~1000MHz	± 3.68dB
	Above 1GHz	± 5.82dB

Remark : Uncertainty =  $ku_c(y)$

Test Item	Uncertainty
Emission Bandwidth (20dB)	± 0.2kHz
Periodic Operated	± 0.05s

## 4. MEASUREMENT EQUIPMENT LIST

### 4.1. Conducted Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Test Receiver	R&S	ESCI	101276	2017. 03. 23	1 Year
2.	A.M.N.	R&S	ESH2-Z5	100366	2017. 07. 20	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-881-13	2016. 12. 28	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	101495	2017. 01. 16	1 Year
5.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.7 S/R	2017. 04. 21	1 Year
6.	Test Software	Audix	e3	V.120619C	N.C.R.	N.C.R.

### 4.2. Radiated Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
1.	Spectrum Analyzer	Agilent	N9010A-526	MY53400071	2017. 09. 13	1 Year
2.	Spectrum Analyzer	Agilent	N9010A-526	MY52220368	2016. 12. 01	1 Year
3.	Test Receiver	R & S	ESCS30	100338	2017. 06. 19	1 Year
4.	Amplifier	HP	8447D	2944A06305	2017. 02. 16	1 Year
5.	Amplifier	Sonoma	310N	187161	2017. 06. 08	1 Year
6.	Loop Antenna	R & S	HFH2-Z2	891847/27	2016. 12. 23	1 Year
7.	Bilog Antenna	TESEQ	CBL6112D	33821	2017. 01. 21	1 Year
8.	Horn Antenna	ETS-Lindgren	3117	00135902	2017. 03. 08	1 Year
9.	Digital Thermo-Hygro Meter	iMax	HTC-1	No.1 3m A/C	2017. 04. 21	1 Year
10.	Digital Thermo-Hygro Meter	EVERY DAY	E-512	RF-02	2017. 04. 21	1 Year
11.	Test Software	Audix	e3	V.6.1206197	N.C.R.	N.C.R.
12.	Test Software	Audix	e3	V.6.110601	N.C.R.	N.C.R.

### 4.3. RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
1.	Spectrum Analyzer	Keysight	N9010B-544	MY55460198	2017. 04. 18	1 Year
2.	Wide Band Antenna	Diamond	RH799	N/A	N.C.R.	N.C.R.
3.	Thermo-Hygro Meter	Shenzhen Datronn Electronics	KT-905	RF	2017. 04. 21	1 Year

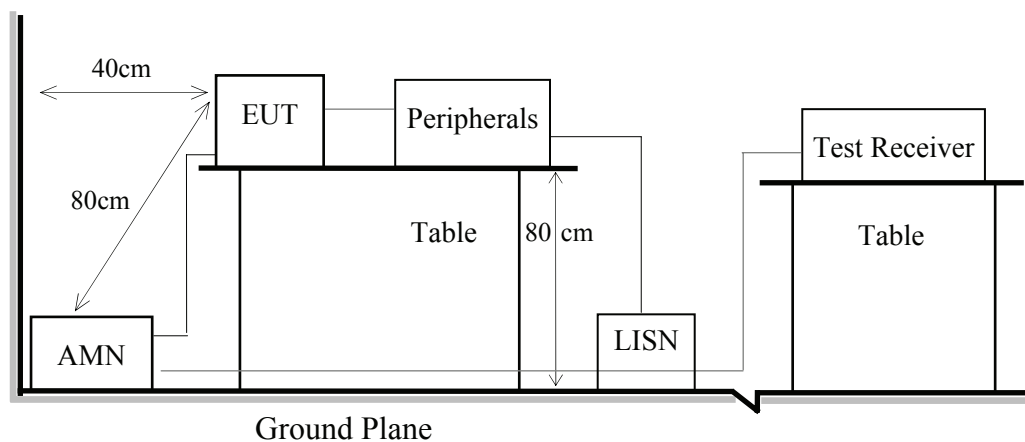
## 5. CONDUCTED EMISSION

### 5.1. Block Diagram of Test Setup

#### 5.1.1. Block Diagram of EUT

Indicated as section 3.8

#### 5.1.2. Shielded Room Setup Diagram



### 5.2. Conducted Emission Limit

Frequency	Conducted Limit	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB $\mu$ V	56 ~ 46 dB $\mu$ V
500kHz ~ 5MHz	56 dB $\mu$ V	46 dB $\mu$ V
5MHz ~ 30MHz	60 dB $\mu$ V	50 dB $\mu$ V

Remark 1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.

2.: The lower limit applies to the band edges.

### **5.3. Test Procedure**

- 5.3.1. To set up the EUT as indicated in ANSI C 63.10. The EUT was placed on the table which has 80 cm height to the ground and 40 cm distance to the conducting wall.
- 5.3.2. Power supplier of the EUT was connected to the AC mains through an Artificial Mains Network (A.M.N.).
- 5.3.3. The AC power supplies to all peripheral devices must be provided through line impedance stabilization network (L.I.S.N.)
- 5.3.4. Checking frequency range from 150 kHz to 30 MHz and record the emission which does not have 20 dB below limit.

### **5.4. Test Results**

Please refer to Appendix A.

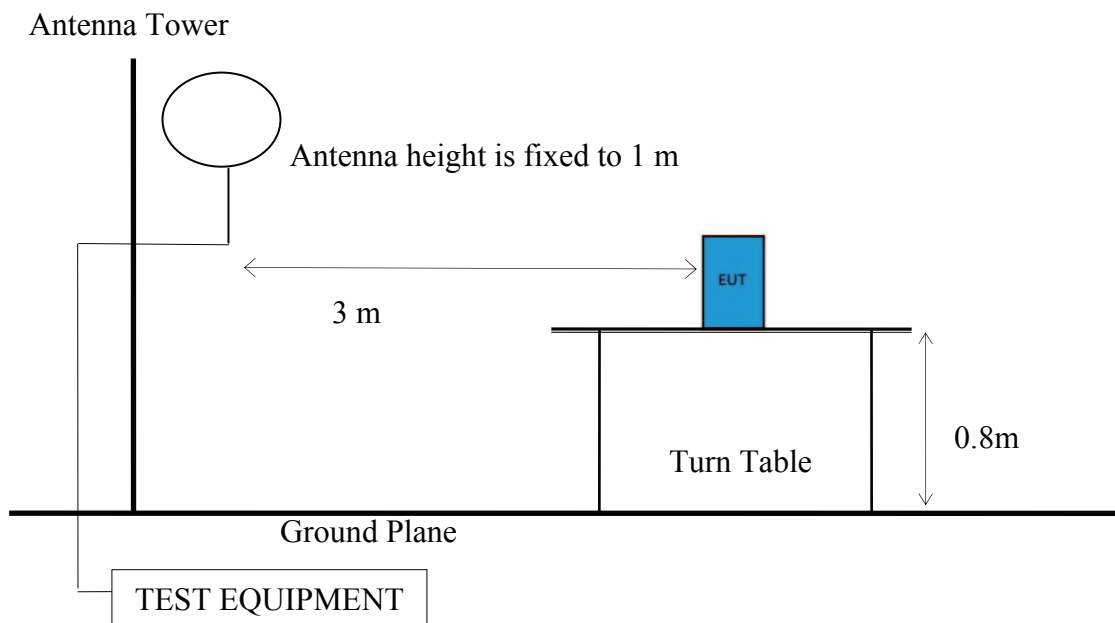
## 6. RADIATED SPURIOUS EMISSION

### 6.1. Block Diagram of Test Setup

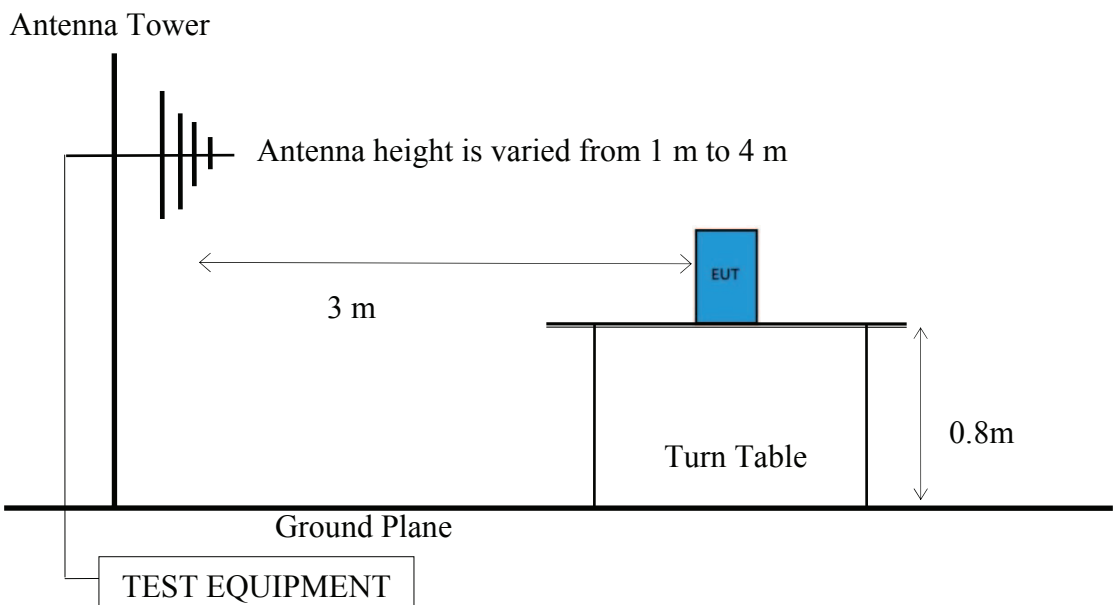
#### 6.1.1. Block Diagram of EUT

Indicated as section 3.8

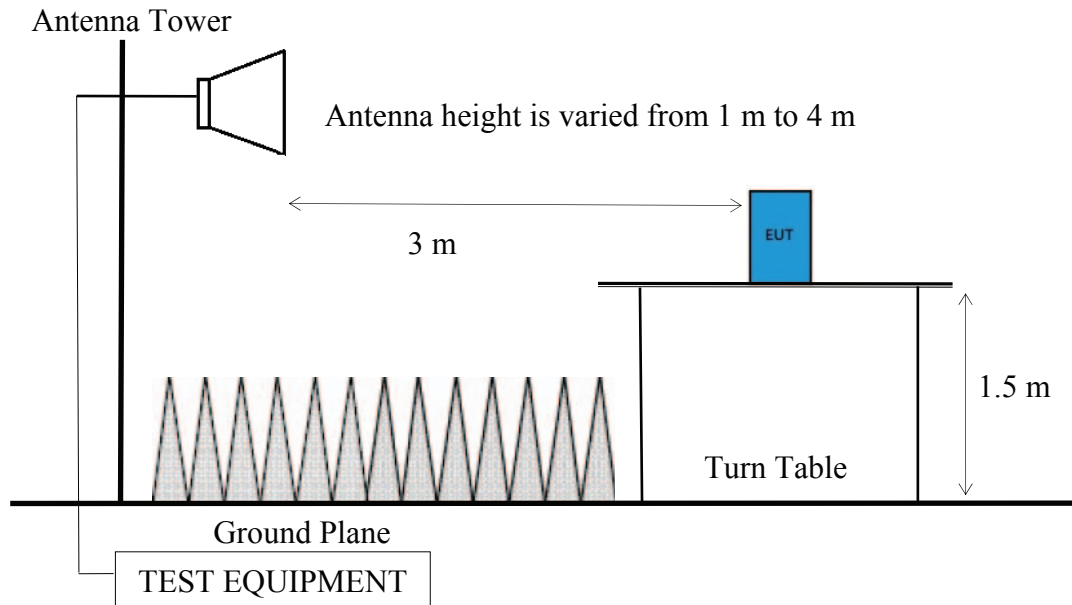
#### 6.1.2. Setup Diagram for 9kHz-30MHz



#### 6.1.3. Setup Diagram for 30MHz-1000MHz



6.1.4. Setup Diagram for above 1GHz



**6.2. Radiated Emission Limits**

6.2.1. General Limit

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205 must also comply with the radiated emission limits specified as below.

Frequency (MHz)	Distance (m)	Limits	
		dB $\mu$ V/m	$\mu$ V/m
0.009 - 0.490	300	67.6	2400/kHz
0.490 - 1.705	30	87.6	24000/kHz
1.705 - 30	30	29.5	30
30 - 88	3	40.0	100
88- 216	3	43.5	150
216- 960	3	46.0	200
Above 960	3	54.0	500
Above 1000	3	74.0 dB $\mu$ V/m (Peak) 54.0 dB $\mu$ V/m (Average)	

Remark : (1) dB $\mu$ V/m = 20 log ( $\mu$ V/m)

- (2) The tighter limit applies to the edge between two frequency bands.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (4) Fundamental and emission fall within operation band are exempted from this section.
- (5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.



### 6.2.2. Limite for Fundamental Frequency

In addition to the provisions of §15.205, the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)
40.66-40.70	2,250	225
70-130	1,250	125
130-174	<sup>1</sup> 1,250 to 3,750	<sup>1</sup> 125 to 375
174-260	3,750	375
260-470	<sup>1</sup> 3,750 to 12,500	<sup>1</sup> 375 to 1,250
Above 470	12,500	1,250
<sup>1</sup> :Linear Interpolations		

Remark : (1)  $\text{dB}\mu\text{V}/\text{m} = 20 \log (\mu\text{V}/\text{m})$

(2) The tighter limit applies to the edge between two frequency bands.

(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

(4) Where limit of Fundamental Freq. is calculated by:

$$41.6667 \times 304.25 - 7083.3333 = 5593.760175 \mu\text{V}/\text{m} = 74.95 \text{dB}\mu\text{V}/\text{m}$$

(5) The limits in this table are based on CFR 47 Part 15.231(b).

### 6.3. Test Procedure

#### Frequency Range 9kHz~30MHz:

The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

(1) RBW = 9kHz with peak and average detector.

(2) Detector: average and peak (9kHz-490kHz)

Q.P. (490kHz-30MHz)

#### Frequency Range 30MHz ~ 25GHz:

The EUT setup on the turn find table which has 80 cm (for 30-1000 MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

**Frequency below 1 GHz:**

Spectrum Analyzer is used for pre-testing with following setting:

- (1)RBW = 120KHz
- (2)VBW  $\geq 3 \times$  RBW.
- (3)Detector = Peak.
- (4)Sweep time = auto.
- (5)Trace mode = max hold.
- (6)Allow sweeps to continue until the trace stabilizes.
- (7)When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required. Otherwise using Q.P. for finally measurement.

**Frequency above 1GHz to 10th harmonic:****Peak Detector:**

- (1)RBW = 1MHz
- (2)VBW  $\geq 3 \times$  RBW.
- (3)Detector = Peak.
- (4)Sweep time = auto.
- (5)Trace mode = max hold.
- (6)Allow sweeps to continue until the trace stabilizes.
- (7)When peak-detected value is lower than limit that the measurement using the average detector is not required. Otherwise using average detector for finally measurement.

**Average Detector:** **Option 1:**

- (1)RBW = 1MHz
- (2)VBW  $\geq 1/ T$ .
- (3)Detector = Peak.
- (4)Sweep time = auto.
- (5)Trace mode = max hold.
- (6)Allow sweeps to continue until the trace stabilizes.

 **Option 2:**

Average Emission Level= Peak Emission Level+ D.C.C.F.

## 6.4. Measurement Result Explanation

Peak Emission Level=Antenna Factor + Cable Loss + Meter Reading

Average Emission Level l=Antenna Factor + Cable Loss + Meter Reading

Average Emission Level= Peak Emission Level+ DCCF

Duty Cycle Correction Factor (DCCF)=  $20\log(TX_{on}/TX_{on+off})$  presented in section 3.6

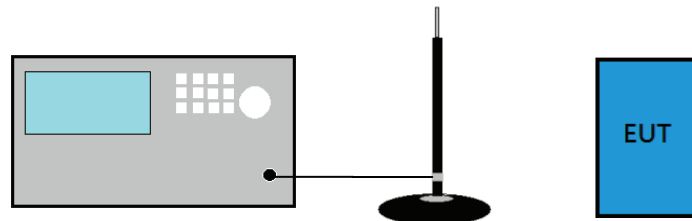
ERP= Peak Emission Level-95.2dB-2.14dB

## 6.5. Test Results

Please refer to Appendix A.

## 7. EMISSION BANDWIDTH MEASUREMENT

### 7.1. Block Diagram of Test Setup



### 7.2. Specification Limits

The bandwidth of emission shall be no wider than 0.25% of the center frequency for device operating above 70MHz and below 900MHz. Bandwidth is determined at the points 20dB down from the modulated carrier.

### 7.3. Test Procedure

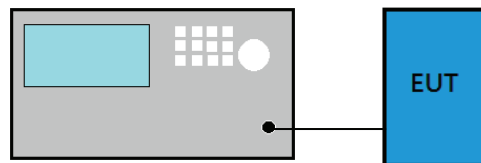
- (1) Set RBW close to 1-5 % of OBW.
- (2) Set  $VBW \geq RBW$ .
- (3) Detector = Peak.
- (4) Trace mode = max hold.
- (5) Sweep = auto couple.
- (6) Allow the trace to stabilize.
- (7) Setting channel bandwidth function x dB to -20 dB to record the final bandwidth.

### 7.4. Test Results

Please refer to Appendix A

## 8. PERIODIC OPERATED MEASUREMENT

### 8.1. Block Diagram of Test Setup



### 8.2. Specification Limits

The operation of this device is manually operated transmitter that is automatically deactivated the transmitter within not more than 5 seconds of being released

### 8.3. Test Procedure

- (1) Span = zero
- (2) RBW  $\geq$  100kHz
- (3) VBW  $\geq$  RBW
- (4) Sweep = 5s
- (5) Detector function = peak
- (6) Trace = single sweep

### 8.4. Test Results

Please refer to Appendix A

## **9. DEVIATION TO TEST SPECIFICATIONS**

**【NONE】**



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*APPENDIX A*

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# APPDNDIX A

## TEST DATA AND PLOTS

(Model: TR267A)

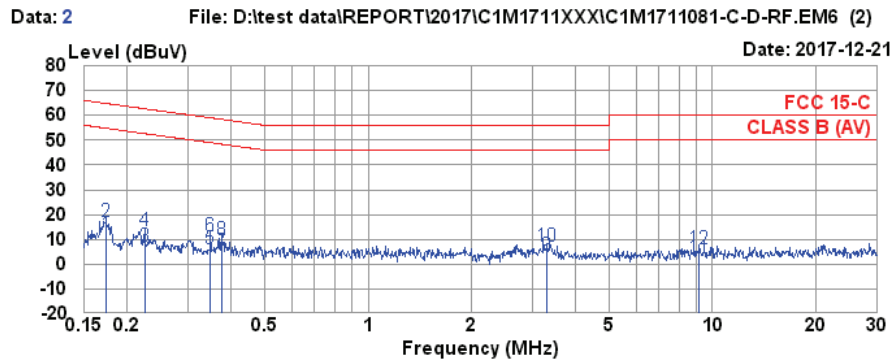
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## A.1 CONDUCTED EMISSION

Test Date	2017/12/21	Temp./Hum.	20°C/40%
Test Voltage	AC 120V, 60Hz		

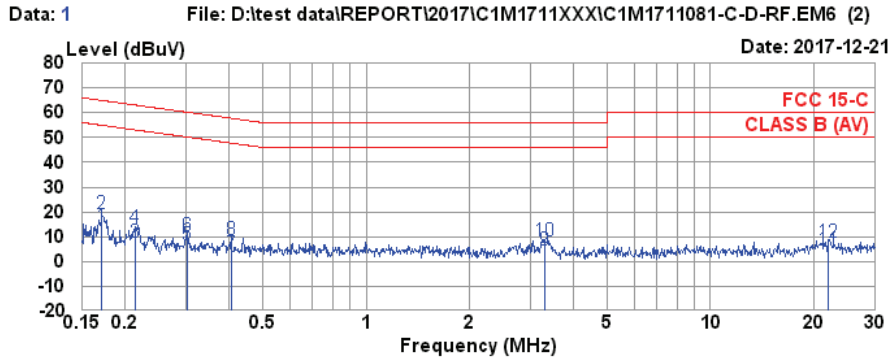


Site no. : No.7 Shielded Room Data no. : 2  
 Condition : ESH2-Z5 366(ADAPTER) Phase : NEUTRAL  
 Limit : FCC 15-C  
 Env. / Ins. : 20°C / 40% ESCI(1276) Engineer : Nick Du  
 EUT : TR267A  
 Power Rating : 120Vac/60Hz  
 Test Mode : Operating

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.173	0.18	0.03	9.86	1.83	11.90	54.81	42.91	Average
2	0.173	0.18	0.03	9.86	6.91	16.98	64.81	47.83	QP
3	0.224	0.17	0.04	9.86	-2.83	7.24	52.66	45.42	Average
4	0.224	0.17	0.04	9.86	3.26	13.33	62.66	49.33	QP
5	0.348	0.19	0.04	9.86	-3.70	6.39	49.00	42.61	Average
6	0.348	0.19	0.04	9.86	1.31	11.40	59.00	47.60	QP
7	0.375	0.19	0.04	9.86	-4.86	5.23	48.39	43.16	Average
8	0.375	0.19	0.04	9.86	-0.20	9.89	58.39	48.50	QP
9	3.310	0.30	0.15	9.87	-6.79	3.53	46.00	42.47	Average
10	3.310	0.30	0.15	9.87	-3.04	7.28	56.00	48.72	QP
11	9.156	0.51	0.22	9.89	-8.34	2.28	50.00	47.72	Average
12	9.156	0.51	0.22	9.89	-4.66	5.96	60.00	54.04	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.  
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Test Date	2017/12/21	Temp./Hum.	20°C/40%
Test Voltage	AC 120V, 60Hz		



Site no. : No.7 Shielded Room Data no. : 1  
 Condition : ESH2-Z5 366(ADAPTER) Phase : LINE  
 Limit : FCC 15-C  
 Env. / Ins. : 20°C / 40% ESCI(1276) Engineer : Nick Du  
 EUT : TR267A  
 Power Rating : 120Vac/60Hz  
 Test Mode : Operaing

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.171	0.17	0.03	9.86	3.96	14.02	54.90	40.88	Average
2	0.171	0.17	0.03	9.86	9.10	19.16	64.90	45.74	QP
3	0.214	0.16	0.04	9.86	-2.17	7.89	53.05	45.16	Average
4	0.214	0.16	0.04	9.86	3.28	13.34	63.05	49.71	QP
5	0.302	0.17	0.04	9.86	-3.31	6.76	50.19	43.43	Average
6	0.302	0.17	0.04	9.86	0.15	10.22	60.19	49.97	QP
7	0.406	0.18	0.04	9.86	-7.08	3.00	47.73	44.73	Average
8	0.406	0.18	0.04	9.86	-1.41	8.67	57.73	49.06	QP
9	3.310	0.31	0.15	9.87	-5.68	4.65	46.00	41.35	Average
10	3.310	0.31	0.15	9.87	-2.22	8.11	56.00	47.89	QP
11	22.063	1.16	0.31	9.96	-6.83	4.60	50.00	45.40	Average
12	22.063	1.16	0.31	9.96	-3.57	7.86	60.00	52.14	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.  
 2. If the average limit is met when using a quasi-peak detector,  
 the EUT shall be deemed to meet both limits and measurement  
 with average detector is unnecessary.

## A.2 RADIATED SPURIOUS EMISSION

Test Date	2017/12/13	Temp./Hum.	23°C/53%
Test Voltage	AC 120V/60Hz		
Test Frequency	TX 304.25MHz		

### A.2.1 Emissions Applied to General Requirement

#### A.2.1.1 Frequency 9kHz~30MHz

**The emissions (9kHz~30MHz) not reported for there is no emission be found.**

#### A.2.1.2 Frequency Below 1 GHz

##### Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
101.78	17.60	2.29	4.02	23.91	43.50	19.59	Peak
320.03	20.06	4.58	7.25	31.89	46.00	14.11	Peak
479.11	22.94	6.26	3.10	32.30	46.00	13.70	Peak
609.09	24.67	6.79	8.85	40.31	46.00	5.69	Peak
782.72	25.75	7.52	3.21	36.48	46.00	9.52	Peak
912.70	26.95	8.26	9.77	44.98	46.00	1.02	Peak

##### Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
101.78	17.60	2.29	5.52	25.41	43.50	18.09	Peak
246.31	18.89	3.77	2.76	25.42	46.00	20.58	Peak
455.83	22.70	6.07	3.19	31.96	46.00	14.04	Peak
652.74	24.77	6.93	2.54	34.24	46.00	11.76	Peak
841.89	26.31	7.85	2.80	36.96	46.00	9.04	Peak
949.56	27.32	8.50	2.92	38.74	46.00	7.26	Peak

A.2.1.3 Frequency Above 1 GHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
2130.00	31.77	6.24	14.68	52.68	74.00	21.32	Peak
2738.00	32.58	7.05	10.10	49.73	74.00	24.27	Peak

Emission Frequency (MHz)	Peak Emission Level (dB $\mu$ V/m)	DCCF (dB)	Average Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Remark
2130.00	51.74	-8.31	43.43	54.00	10.57	Average
2738.00	48.53	-8.31	40.22	54.00	13.78	Average

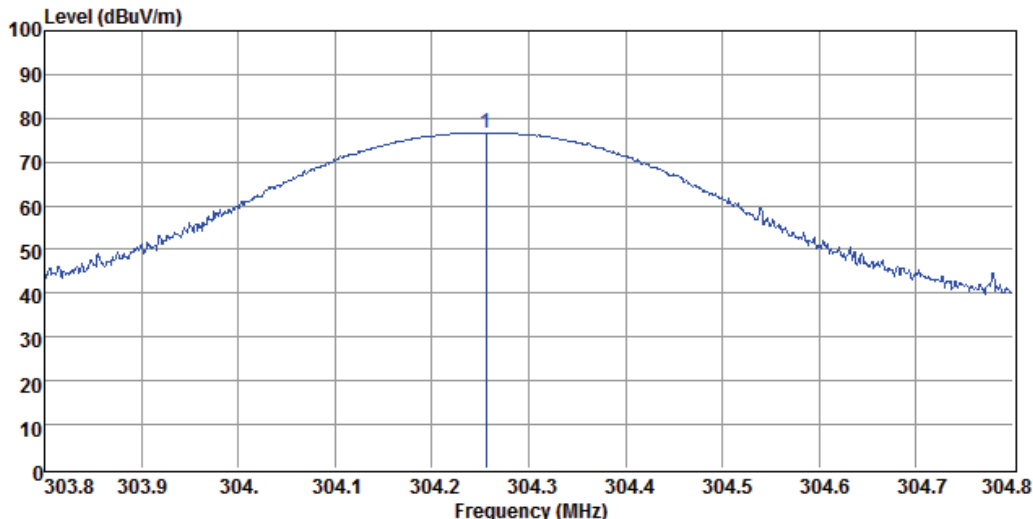
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Detector
2130.00	31.77	6.24	13.03	51.04	74.00	22.96	Peak
2738.00	32.58	7.05	8.72	48.35	74.00	25.65	Peak

Emission Frequency (MHz)	Peak Emission Level (dB $\mu$ V/m)	DCCF (dB)	Average Emission Level (dB $\mu$ V/m)	Limits (dB $\mu$ V/m)	Margin (dB)	Remark
2130.00	50.88	-8.31	42.57	54.00	11.43	Average
2738.00	47.38	-8.31	39.07	54.00	14.93	Average

### A.2.2 Fundamental Frequency

Data: 2 File: D:\Users\Kuper\_Hsul\Desktop\kuper\C1M1711082\2671Radiated1\20171211\power.EMI.EM6 (2)



```

Site no.      : AUDIX No.1 3m Chamber      Data no.   : 2
Dis. / Ant.  : 3m CBL6112D 33821        Ant. pol.  : HORIZONTAL
Limit        :
Env. / Ins.  : 24*C / 53% N9010A         Engineer   : Kuper
EUT         : TR267A
Power Rating : 120Vac/60Hz
Test Mode    : Tx304.25MHz
    
```

#### Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
304.30	19.62	4.37	67.77	91.76	94.95	3.19	Peak

Emission Frequency (MHz)	Peak Emission Level (dBμV/m)	DCCF (dB)	Average Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
304.25	76.71	-8.31	68.40	74.95	6.55	Average

Remark: Horizontal is the strongest polarization and peak value has complied with average limit, so vertical won't be listed in test report.

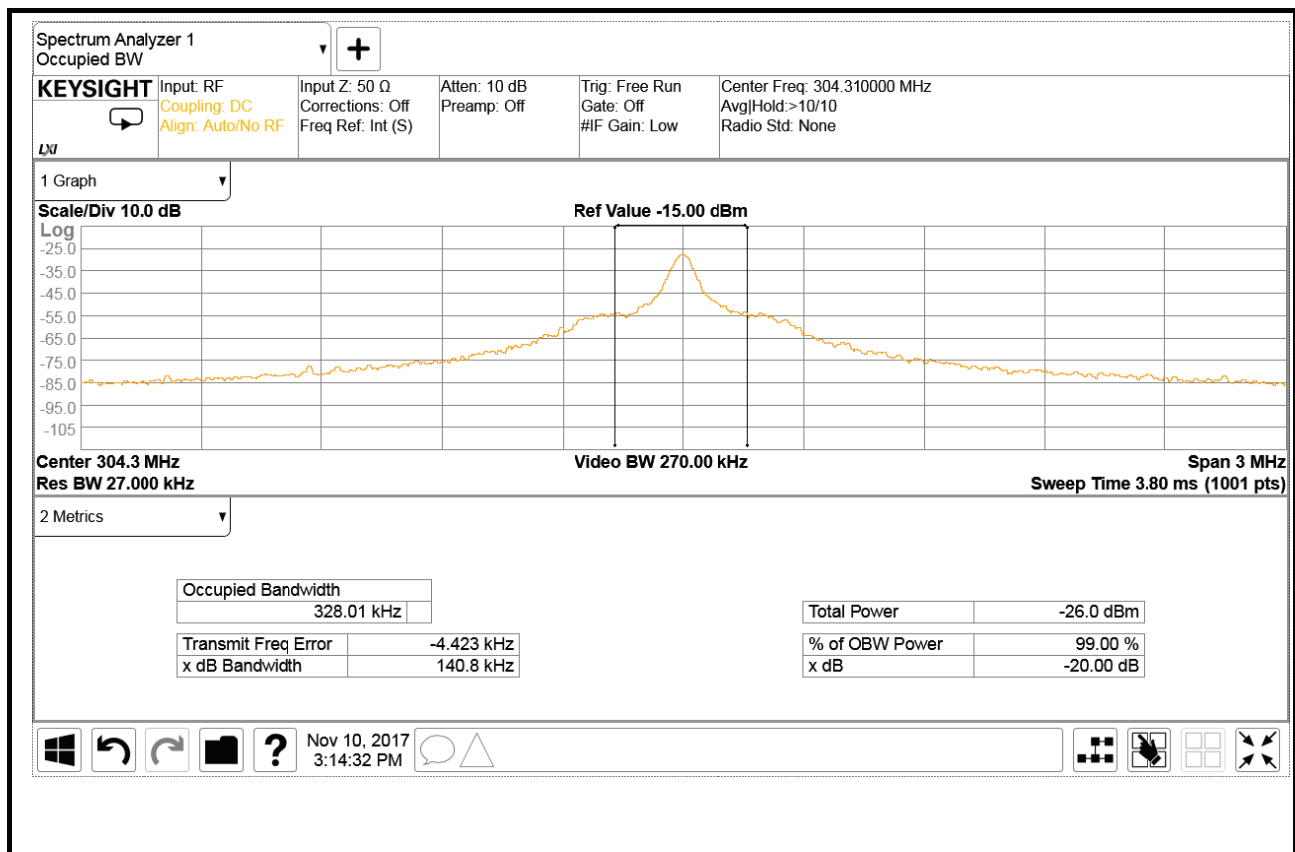
### A.3 EMISSION BANDWIDTH MEASUREMENT

Test Date	2017/11/10	Temp./Hum.	24°C/55%
Frequency	TX 304.25MHz	Test Voltage	AC 120V/60Hz

#### A.3.1 Emission Bandwidth

Center Frequency (MHz)	Occupied Bandwidth (MHz)	Tolerance (%)	Limit (%)
304.25	0.1408	0.046	0.25

#### A.3.2 Measurement Plots



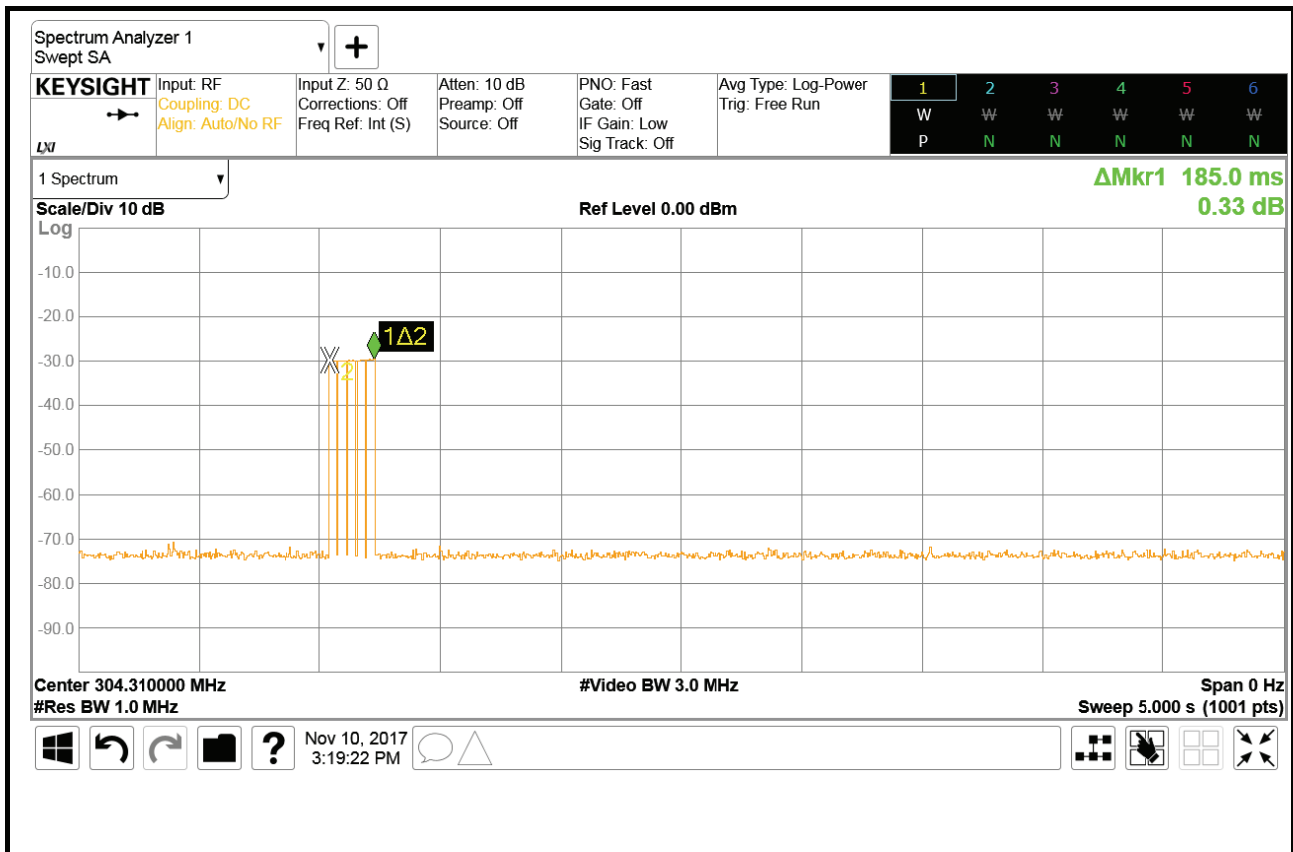
## A.4 PERIODIC OPERATED MEASUREMENT

Test Date	2017/11/10	Temp./Hum.	24°C/55%
Frequency	TX 304.25MHz	Test Voltage	AC 120V/60Hz

### A.4.1 Periodic Operated

Center Frequency (MHz)	Time (Sec.)	Limit (Sec.)
304.25	0.185	< 5

### A.4.2 Measurement Plots





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*New Taipei City 244, Taiwan*

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*APPENDIX B*

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# APPDNDIX B

## TEST PHOTOGRAPHS

(Model: TR267A)