Report No: CCISE190400402v01

# **FCC REPORT**

Applicant: Shenzhen Tengwei Video Technology Co.,Ltd

Address of Applicant: Room 505, Rujun Building, Banxuegang Road, Longgang

District Shenzhen, China

**Equipment Under Test (EUT)** 

Product Name: IP CAMERA

Model No.: T8880D, TH692, T8862, T8863, T8864, T8865, T8880, T6862,

T6865, T5840, T5842, T5845, T5862, T5865, T4862, T4863, T4865, T4866, T3862, T3865, T3822, T3820, T3875, TA702, TA703, TA801, TA802, TA803, TA804, TA805, T2810, TA702S, T3875S, T3822S, T3820S, T3862S, T5842F, TH692D, T8862D, T8863D, T8864D, T8865D, T6862D, T6865D, T5840D, T5842D, T5845D, T5865D, T4866D, T4865D, T4865D, T4866D, T3862D, T3865D, T3822D, T3820D, T3875D, TA702D, TA703D,

TA801D, TA802D, TA803D, TA804D, TA805D, T2810D

Trade mark: TENVIS

FCC ID: 2ADGP-T8880D

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

Date of sample receipt: 01 Apr., 2019

**Date of Test:** 01 Apr., to 09 Apr., 2019

Date of report issued: 09 Apr., 2019

Test Result: PASS \*

Authorized Signature:



Bruce Zhang Laboratory Manager

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

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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

### 2 Version

Version No. Date		Description		
00	09 Apr., 2019	Original		
01	18 Apr., 2019	Update page 18		

Tested by: Open (hen Date: 09 Apr., 2019

Reviewed by:

Project Engineer

O9 Apr., 2019



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# 4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part 15.107	Pass
Radiated Emission	Part 15.109	Pass

Remark:

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

N/A: The EUT not applicable of the test item.



# 5 General Information

### **5.1 Client Information**

Applicant:	Shenzhen Tengwei Video Technology Co., Ltd	
Address:	Room 505, Rujun Building, Banxuegang Road, Longgang District Shenzhen, China	
Manufacturer/ Factory:	Shenzhen Tengwei Video Technology Co., Ltd	
Address:	Room 505, Rujun Building, Banxuegang Road, Longgang District Shenzhen, China	

# 5.2 General Description of E.U.T.

Product Name:	IP CAMERA
Model No.:	T8880D, TH692, T8862, T8863, T8864, T8865, T8880, T6862, T6865, T5840, T5842, T5845, T5862, T5865, T4862, T4863, T4865, T4866, T3862, T3865, T3822, T3820, T3875, TA702, TA703, TA801, TA802, TA803, TA804, TA805, T2810, TA702S, T3875S, T3822S, T3820S, T3862S, T5842F, TH692D, T8862D, T8863D, T8864D, T8865D, T6862D, T6865D, T5840D, T5842D, T5845D, T5862D, T5865D, T4862D, T4863D, T4865D, T4866D, T3862D, T3865D, T3822D, T3820D, T3875D, TA702D, TA703D, TA801D, TA802D, TA803D, TA804D, TA805D, T2810D
AC adapter :	Model: JF012WR-1200100UV Input: AC100-240V, 50/60Hz, 0.35A Output: DC 12.0V, 1.0A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.
Remark:	Model No.: T8880D, TH692, T8862, T8863, T8864, T8865, T8880, T6862, T6865, T5840, T5842, T5845, T5862, T5865, T4862, T4863, T4865, T4866, T3862, T3865, T3822, T3820, T3875, TA702, TA703, TA801, TA802, TA803, TA804, TA805, T2810, TA702S, T3875S, T3822S, T3820S, T3862S, T5842F, TH692D, T8862D, T8863D, T8864D, T8865D, T6862D, T6865D, T5840D, T5842D, T5845D, T5865D, T4866D, T4866D, T3862D, T3865D, T3822D, T3820D, T3875D, TA702D, TA703D, TA801D, TA802D, TA803D, TA804D, TA805D, T2810D were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model.



### 5.3 Test Mode

Operating mode	Detail description
Recording mode	Keep the EUT in Recording mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

# 5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±2.22 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)



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### 5.5 Description of Support Units

N/A

### 5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

### 5.7 Description of Cable Used

N/A

### 5.8 Laboratory Facility

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

#### FCC - Registration No.: 727551

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

### IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

### CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

#### A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

### 5.9 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 2311 8282 Fax: +86 (0) 755 2311 6366





### 5.10 Test Instruments list

Radiated Emission:							
Test Equipment	Manufacturer	Model No.	Model No. Serial No.		Cal. Due date (mm-dd-yy)		
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020		
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-18-2019	03-17-2020		
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2019	03-17-2020		
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2019	03-17-2020		
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020		
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019		
EMI Test Software	AUDIX	E3	Version: 6.110919b				
Pre-amplifier	HP	8447D	2944A09358	03-18-2019	03-17-2020		
Pre-amplifier	CD	PAP-1G18	11804	03-18-2019	03-17-2020		
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2019	03-17-2020		
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019		
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2019	03-17-2020		
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2019	03-17-2020		
Cable	MICRO-COAX	MFR64639	K10742-5	03-18-2019	03-17-2020		
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2019	03-17-2020		

Conducted Emission:							
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-18-2019	03-17-2020		
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-18-2019	03-17-2020		
LISN	CHASE	MN2050D	1447	03-18-2019	03-17-2020		
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019		
Cable	HP	10503A	N/A	03-18-2019	03-17-2020		
EMI Test Software	AUDIX	E3	Version: 6.110919b				



### 6 Test results and Measurement Data

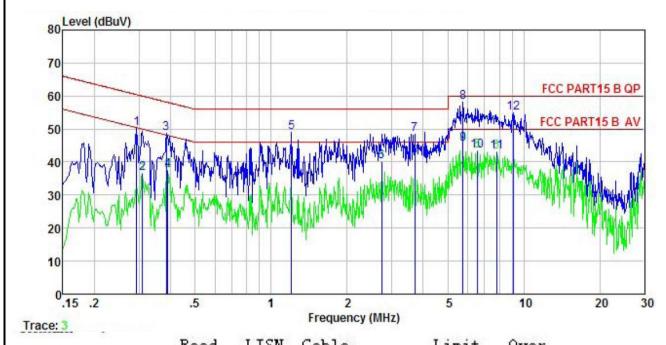
### **6.1 Conducted Emission**

Test Requirement:	FCC Part 15 B Section 15.10	)7				
Test Method:	ANSI C63.4:2014					
Test Frequency Range:	150kHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:	,	Limit	(dBµV)			
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	0.5-30	60	50			
	* Decreases with the logarith	m of the frequency.				
Test setup:	Reference Plan	ne				
Took you and down	AUX Filter AC power  Equipment E.U.T  Remark  E.U.T Equipment Under Test  LISN Line Impedence Stabilization Network  Test table height=0.8m					
Test procedure	<ol> <li>The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs).</li> <li>Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.</li> </ol>					
Test Instruments:	Refer to section 5.9 for details					
Test mode:	Refer to section 5.3 for detail	ls				
Test results:	Pass					



#### Measurement data:

Product name:	IP CAMERA	Product model:	T8880D
Test by:	Caffrey	Test mode:	Recording mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%
	<u> </u>	<u> </u>	



	Freq	Kead Level	Factor	Loss	Level	Limit	Over Limit	Remark
	MHz	dBu₹	<u>dB</u>	₫B	—dBu∀	dBu∜	<u>ab</u>	
1	0.294	39.33	0.13	10.74	50.20	60.41	-10.21	QP
2	0.310	25.68	0.13	10.74	36.55	49.97	-13.42	Average
3	0.385	37.72	0.12	10.72	48.56	58.17	-9.61	QP
4	0.389	26.75	0.12	10.72	37.59	48.08	-10.49	Average
1 2 3 4 5 6 7 8 9	1.203	37.90	0.13	10.89	48.92	56.00	-7.08	QP
6	2.736	28.92	0.16	10.93	40.01	46.00	-5.99	Average
7	3.700	37.39	0.18	10.90	48.47	56.00	-7.53	QP
8	5.744	47.00	0.22	10.83	58.05	60.00	-1.95	QP
9	5.744	34.27	0.22	10.83	45.32	50.00	-4.68	Average
10	6.557	32.39	0.24	10.81	43.44	50.00	-6.56	Average
11	7.810	31.94	0.27	10.84	43.05	50.00	-6.95	Average
12	9.107	43.61	0.30	10.90	54.81	60.00	-5.19	

#### Notes

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



Product name:	IP CAMERA	Pr	oduct model:		T8880D	
Test by:	Caffrey	Те	est mode:		Recording	mode
Test frequency:	150 kHz ~ 30 MHz	Ph	nase:		Neutral	
Test voltage:	AC 120 V/60 Hz	En	vironment:		Temp: 22.5	5℃ Huni: 55%
Freq  1 0.310 2 0.389 3 0.415 4 0.589 5 1.016 6 3.074 7 3.224	dBuV dB  31.82 0.97 29.90 0.97 39.39 0.97 27.72 0.97 39.47 0.97 30.96 0.99 40.61 0.99 45.94 1.01	Cable Loss dB 10.74 10.72 10.73 10.76 10.87 10.92 10.91 10.84 10.83 10.80	Level	56.00 60.00 50.00 60.00	10 Over Limit —6.44 —6.49 —6.46 —6.55 —4.69 —3.13 —3.49 —2.21 —1.76 —2.71 —2.15	20 30  Remark  Average Average QP Average

#### Notes:

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



# 6.2 Radiated Emission

FCC Part 15 B So ANSI C63.4:2014 30MHz to 25GHz								
30MHz to 25GHz	T							
					Remark			
30MHZ-1GHZ		еак			·			
Above 1GHz					Peak Value Average Value			
Frequenc		l im			Remark			
				e om j	Quasi-peak Value			
					Quasi-peak Value			
					Quasi-peak Value			
			54.0		Quasi-peak Value			
Abovo 1CI	⊔ <b>-</b>		54.0		Average Value			
Above 1GI	П		74.0		Peak Value			
Tum 0.8m Table 0.8m A AE A	4m  Im  A  table)	3m	Horn Antenna Horn Pre-	Antenna Tow				
	Frequency 30MHz-1GHz  Above 1GHz  Frequency 30MHz-88N 88MHz-216I 216MHz-960 960MHz-1C Above 1GI  Below 1GHz  Frequency 30MHz-88N 88MHz-216I 216MHz-960 960MHz-1C Above 1GI  Above 1GI  Above 1GHz	Frequency 30MHz-1GHz  Above 1GHz  Peak RMS  Frequency 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz  Below 1GHz  Below 1GHz  Above 1GHz  Above 1GHz	Frequency Quasi-peak Above 1GHz Peak RMS Frequency Lim 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz  Below 1GHz  Below 1GHz  Above 1GHz  Above 1GHz	Frequency Detector RBW  30MHz-1GHz Quasi-peak 120kHz  Above 1GHz Peak 1MHz  Frequency Limit (dBuV/m or an	Above 1GHz  Above 1GHz  RMS  RMS  RMS  RMS  RMS  RMS  RMS  RM			





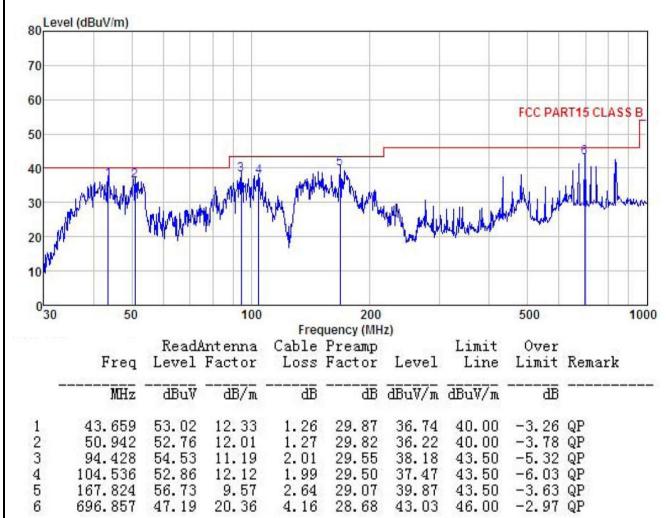
Test Procedure:	The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All of the observed value above 6GHz were the niose floor , which were no recorded



#### **Measurement Data:**

#### **Below 1GHz:**

Product Name:	IP CAMERA	Product Model:	T8880D
Test By:	Caffrey	Test mode:	Recording mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%



#### Remark:

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<sup>1.</sup> Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

<sup>2.</sup> The emission levels of other frequencies are very lower than the limit and not show in test report.



	Name:	IP CAMER	RA		Pro	duct Mode	ıl:	T8880D		
Test By:		Caffrey			Tes	t mode:		Recording r	node	
Test Fred	quency:	30 MHz ~	1 GHz		Pol	arization:		Horizontal		
Test Volt	age:	AC 120V/6	60Hz		Env	vironment:		Temp: 24℃	Hun	i: 57%
70 60 50 40 30	el (dBuV/m)			Lun Allah	2 Manual		hallow the the	FCC PAF	RT15 CLA	SS B
10				- III/						
10 0 30	50		100	Freq	200 uency (MH	z)		500		1000
			100 Antenna Factor	Cable		z) Level	Limit Line	Over	Remark	
	50		Antenna Factor	Cable	uency (MH Preamp Factor		Line	Over Limit	Remark	

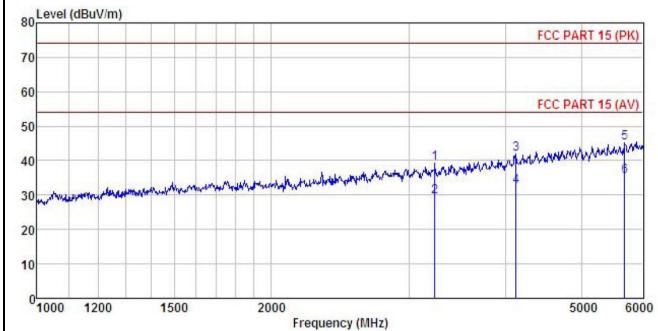
#### Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



#### **Above 1GHz:**

Product Name:	IP CAMERA	Product Model:	T8880D
Test By:	Caffrey	Test mode:	Recording mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor				Limit Line	Over Limit	Remark
	MHz	dBu₹	<u>dB</u> /m	<u>d</u> B	<u>d</u> B	$\overline{dBuV/m}$	dBuV/m	<u>d</u> B	
1	3239.420	46.31	28.75	5.47	41.40	39.13	74.00	-34.87	Peak
2	3239.420	36.75	28.75	5.47	41.40	29.57	54.00	-24.43	Average
3	4118.504	47.16	30.42	6.29	41.81			-31.94	
4	4118.504	37.54	30.42	6.29	41.81	32.44	54.00	-21.56	Average
5	5685.998	46.88	32.74	7.55	41.89	45.28		-28.72	
6	5685.998	37.03		7.55	41.89	35.43			Average

#### Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



<u>ouu</u> c	ct Nar	me:		IP CAMEF	RA		Pro	duct Mode	d:	T8880D	
est By	y:			Caffrey			Tes	Test mode: Recording mode			mode
est Fr	reque	ncy:		1 GHz ~ 6 GHz Polarization: Hot				Horizontal			
est Vo	oltage	e:		AC 120V/6	60Hz		Env	vironment:		Temp: 24℃	Huni: 57%
	evel (	(dBuV/m)									
80										FCC P	ART 15 (PK)
70											
\$3.755											
60										FCC D	ART 15 (AV)
50										1001	A(t) 13 (AV)
30											5
40								1.	Listan	hadrada da	my many
			days and	146	اللامد عالم عاد	Land Marie	half and the land of	the majoral	Not that a su		1
30	- Wheel	and the second	apart of	AND MENTAL MAN	Ma. d'es d'es antiès .	My me as a	3-2-2-300 B	7		101	whyhendrym
20											
20											
-											
10											
10											
0_	000	1200		1500	2	2000 Frequ	iency (MHz				5000 6000
0_	000	1200				Frequ	iency (MHz Preamo		Limit		5000 6000
0_	1000		eq	Read	Antenna Factor	Frequ Cable	uency (MHz Preamp Factor		Limit Line	Over	5000 6000 Remark
0_	000	Fr	eq Hz	Read	Ant enna	Frequ Cable Loss	Preamp	Level	Line	Over Limit	
01		Fr	Hz	Read/ Level dBuV	Antenna Factor ——dB/m	Frequ Cable Loss ——————————————————————————————————	Preamp Factor dB	Level	Line	Over Limit ———————————————————————————————————	Remark
0 1		Fr	Hz 15	Read Level	Antenna Factor — dB/m 28.70 28.70	Frequence Cable Loss  dB 5.40 5.40	Preamp Factor	Level	Line dBuV/m 74.00	Over Limit dB	Remark
0 1		Fro MD 3153.5 3153.5 1023.6	Hz 15 15 15	Read, Level dBuV 45.50 35.93 46.42	Antenna Factor dB/m 28.70 28.70 30.25	Frequ Cable Loss dB 5.40 5.40 6.15	Preamp Factor ————————————————————————————————————	Level  dBuV/m  38.17 28.60 41.01	Line dBuV/m 74.00 54.00 74.00	Over Limit ———————————————————————————————————	Remark Peak Average Peak
0 1 1 2 3 4	 3 4 4	Fr: M0 3153.5 3153.5 1023.6	Hz 15 15 81	Read, Level dBuV 45.50 35.93 46.42 36.80	Antenna Factor — dB/m 28.70 28.70 30.25 30.25	Frequ Cable Loss dB 5.40 5.40 6.15 6.15	Preamp Factor ————————————————————————————————————	Level  dBuV/m  38.17 28.60 41.01 31.39	Line dBuV/m 74.00 54.00 74.00 54.00	Over Limit 	Remark Peak Average Peak Average
0 1	 3 3 4 4 5	Fro MD 3153.5 3153.5 1023.6	Hz 15 15 81 81	Read, Level dBuV 45.50 35.93 46.42	Antenna Factor dB/m 28.70 28.70 30.25	Frequ Cable Loss dB 5.40 5.40 6.15	Preamp Factor ————————————————————————————————————	Level  dBuV/m  38.17 28.60 41.01 31.39	Line  dBuV/m  74.00 54.00 74.00 54.00 74.00	Over Limit 	Remark Peak Average Peak Average

### Remark:

<sup>1.</sup> Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

<sup>2.</sup> The emission levels of other frequencies are very lower than the limit and not show in test report.