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Report No.: HK2503261491-E

FCC TEST REPORT

Prepared for :

Shenzhen Yidian International Digital Co., LTD

Floor 3, Block B, Gushu Runfeng Industrial Park, Xixiang Street, Bao 'an District, Shenzhen, China

Product Name:	Camera Detector
Trade Mark:	N/A
Product Model (S):	X18, X13, X14, X15, X16, X17, X19, X20, X21, X22, X23, X24, X25, X26, X27, X28
FCC ID:	2BCLC-X18
Date of Test:	Mar. 26, 2025 – Apr. 02, 2025
Date of Report:	Apr. 02, 2025
Report Number	HK2503261491-F

Prepared By :

Shenzhen HUAK Testing Technology Co., Ltd. 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China TEL: +86-755-2302 9901 FAX: +86-755-2302 9901 E-mail: service@cer-mark.com http://www.cer-mark.com

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Report No.: HK2503261491-E

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TEST REPORT VERIFICATION

Applicant :	Shenzhen Yidian International Digital Co., LTD
Address :	Floor 3, Block B, Gushu Runfeng Industrial Park, Xixiang Street, Bao 'an District, Shenzhen, China
Manufacturer :	Shenzhen Yidian International Digital Co., LTD
Address :	Floor 3, Block B, Gushu Runfeng Industrial Park, Xixiang Street, Bao 'an District, Shenzhen, China
Product Name :	Camera Detector
(A) Product Model:	X18
(B) Series Model :	X13, X14, X15, X16, X17, X19, X20, X21, X22, X23, X24, X25, X26, X27, X28
(C) Power Supply :	DC 5V From Type-C or DC 3.7V From Battery
	EQUIPARTISING A LESING A TESING

Standards FCC Part 15 Subpart B ANSI C63.4:2019

This device described above has been tested by HUAK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

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Test Result Pass

Date of Test:

Mar. 26, 2025 – Apr. 02, 2025

Prepared by:

Project Engineer

evin

Reviewed by:

Approved by:

Pan

Project Supervisor

asin Mou

Technical Director

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Т 691

Revision	Description		Issued Data	Remark
Revision 1.0	Initial Test	t Report Release	Apr. 02, 2025	Jason Zhou
	TING	TING		TING
MAKTED	WK TES	IN LAK TES	NAK TES	MAKTED

** Modified History **

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1. TEST SUMMARY

Test procedures according to the technical standards:

	EMC Emission						
5	Standard	Test Item	Limit	Judgment	Remark		
	FCC Part 15 Subpart B	Conducted Emission	Class B	PASS	ALC: NO		
5	ANSI C63.4:2019	Radiated Emission	Class B	PASS	STING		

NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report

(2) For client's request and manual description, the test will not be executed.

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ACATION

1.1 TEST FACILITY

Shenzhen HUAK Testing Technology Co., Ltd. Add. : 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization: A2LA Accreditation Code is 4781.01. FCC Designation Number is CN1229. Canada IC CAB identifier is CN0045. CNAS Registration Number is L9589.

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$ where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$ providing a level of confidence of approximately **95** %.

A. Conducted Measurement :

Measurement Frequency Range	Uncertainty	NOTE
150 KHz ~ 30MHz	±2.71dB	

B. Radiated Measurement :

Measurement Frequency Range	Uncertainty	NOTE
30MHz ~ 1000MHz	±3.90dB	HUAKTED
1GHz ~6GHz	±4.28dB	- wil

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name	Camera Detector	WARTESTING WARTES
Product Model	X18	0
Series Model	X13, X14, X15, X16, X17, X19 X25, X26, X27, X28	, X20, X21, X22, X23, X24,
Model Difference	All model's the function, softwar same, only with product model r Test sample model: X18.	
Product Description	The EUT is a Camera DetectorOperating frequency:N/AConnecting I/O port:N/ABased on the application, feature shibited in User's Manual, the ITE/Computing Device. More d specification, please refer to the specification, please refer to the specification.	res, or specification EUT is considered as an etails of EUT technical
Power Source	DC Voltage	AK TESTING
Power Rating	DC 5V From Type-C or DC 3.7V	From Battery

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2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

68579	
Pretest Mode	Description
Mode 1	Charging and Working
Mode 2	Charging
Mode 3	Working

	For Conducted Test				
Final Test Mode	Description				
Mode 1	Charging and Working				
Mode 2	Charging				
Mode 3	N/A				
100	10° 10° 10°				

For Radiated Test		
Final Test Mode	Description	
Mode 1	Charging and Working	
Mode 2	Charging	
Mode 3	Working	

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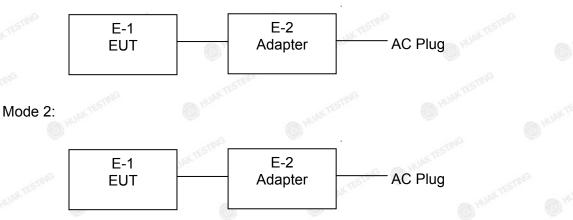


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2.3 DESCRIPTION OF TEST SETUP

Mode 1:



Mode 3:



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2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Trade Mark	Model/Type No).	Series No.	Note
E-1	Camera Detector	N/A	×18	0.	N/A	EUT
E-2	Adapter	N/A	N/A	- HUAK TEST	N/A	TING
	HUAKTE		HUAKTL	9	HUAK	12-
		ESTING	9	TESTING	9	
	NG STING OHUAN	Jun	STING OFFICE		TING	STING
AUAKTES	HUANTL	HUAKTES	HUAKIL		UAK TES !!	NAKTE
		9			9	

000	. 162		162	100
ltem	Shielded Type	Ferrite Core	Length	Note
	<u> </u>			
G		Grand		B
	TING	HUAK TES	TING	UAKTED
	HUAKTE		HUAKTE	HUAKTE
		ESTING	iii ah	nnG
	IG THIS HUAK	Dr.s.	TING HUAN	ang anno
AKTEST	HUAKTES	NAK TESTIN	HUANTES	JAK TESTIN. HUAK TEST
		0		0 0

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in $\[$ Length $\]$ column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

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2.5 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N.	R&S	ENV216	HKE-002	Feb. 19, 2025	1 Year
2.	L.I.S.N.	R&S	ENV216	HKE-059	Feb. 19, 2025	1 Year
3.	EMI Test Receiver	R&S	ESR	HKE-005	Feb. 19, 2025	1 Year
4.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 19, 2025	1 Year
5.	Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 19, 2025	1 Year
6.	Preamplifier	EMCI	EMC05184 5S	HKE-006	Feb. 19, 2025	1 Year
7.	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 19, 2025	1 Year
8.	Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 19, 2025	1 Year
9.	6dB Attenuator	Pasternack	6db	HKE-184	Feb. 19, 2025	1 Year
10.	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 19, 2025	1 Year
11.	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	2 Year
12.	Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	2 Year
13.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	2 Year
14.	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	C AUAN IN	/
15.	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	1	1

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CATION

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

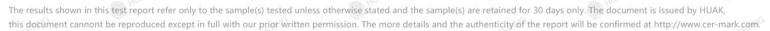
Class A	(dBuV)	Class B (dBuV)		
Quasi-peak	Average	Quasi-peak	Average	
79.00	66.00	66 - 56 *	56 - 46 *	
73.00	60.00	56.00	46.00	
73.00	60.00	60.00	50.00	
	Quasi-peak 79.00 73.00	79.00 66.00 73.00 60.00	Quasi-peak Average Quasi-peak 79.00 66.00 66 - 56 * 73.00 60.00 56.00	

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

Receiver Parameters	Setting
Attenuation	10_dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

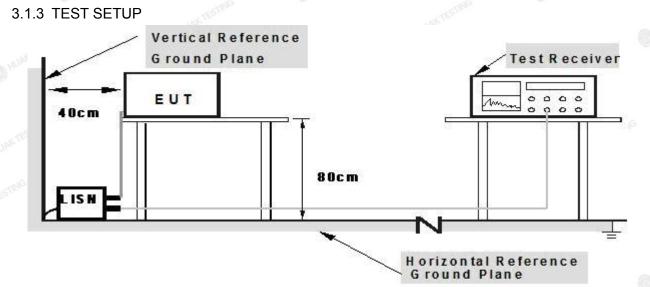


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3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.



Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

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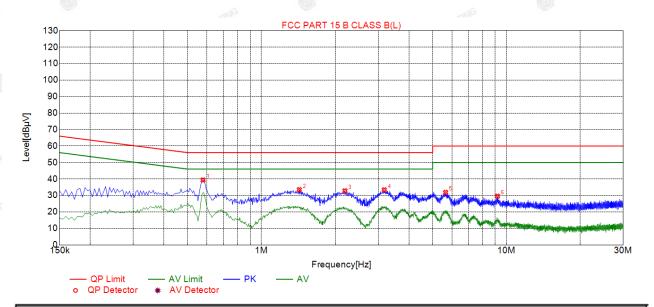
Report No.: HK2503261491-E

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3.1.5 TEST RESULTS Note:

All the test modes completed for test. only the worst result of was reported.

EUT :	Camera Detector	Model Name. :	X18
Temperature :	24 ℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2025-03-27
Test Mode :	Mode 1	Polarization :	L
Test Voltage :	DC 5V From Type-C	NK TESTING	HUAK



Sus	pected	List

NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
1	0.5775	39.38	19.86	56.00	16.62	19.52	PK	L
2	1.4280	33.49	19.92	56.00	22.51	13.57	PK	L
3	2.1930	32.84	19.99	56.00	23.16	12.85	PK	L
4	3.1740	33.42	20.06	56.00	22.58	13.36	PK	L
5	5.6490	31.84	20.10	60.00	28.16	11.74	PK	L
6	9.1995	29.58	20.00	60.00	30.42	9.58	PK	L

Remark: Margin = Limit – Level Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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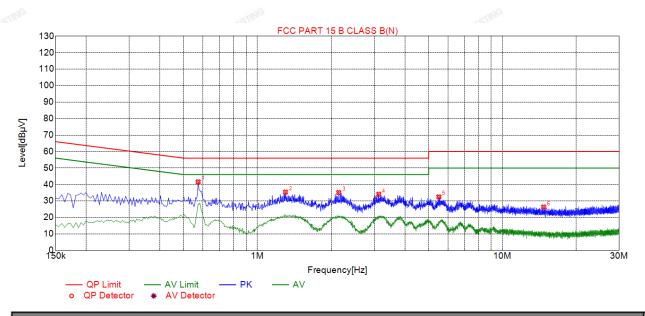


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EUT :	Camera Detector	Model Name. :	X18
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2025-03-27
Test Mode :	Mode 1	Polarization :	N resting
Test Voltage :	DC 5V From Type-C	O HUAN	O HUAK



NO. Freq. [MHz] Level [dBµV] Factor [dB] Limit [dBµV] Margin [dB] Reading [dBµV] Detector Type 1 0.5730 41.60 19.74 56.00 14.40 21.86 PK N 2 1.3020 35.37 19.78 56.00 20.63 15.59 PK N 3 2.1480 35.11 19.86 56.00 20.89 15.25 PK N 4 3.1290 34.08 19.94 56.00 21.92 14.14 PK N 5 5.5050 32.46 20.00 60.00 27.54 12.46 PK N 6 14.7345 26.34 19.80 60.00 33.66 6.54 PK N	Sus	Suspected List									
2 1.3020 35.37 19.78 56.00 20.63 15.59 PK N 3 2.1480 35.11 19.86 56.00 20.89 15.25 PK N 4 3.1290 34.08 19.94 56.00 21.92 14.14 PK N 5 5.5050 32.46 20.00 60.00 27.54 12.46 PK N	NO.					-	-	Detector	Type		
3 2.1480 35.11 19.86 56.00 20.89 15.25 PK N 4 3.1290 34.08 19.94 56.00 21.92 14.14 PK N 5 5.5050 32.46 20.00 60.00 27.54 12.46 PK N	1	0.5730	41.60	19.74	56.00	14.40	21.86	PK	N		
4 3.1290 34.08 19.94 56.00 21.92 14.14 PK N 5 5.5050 32.46 20.00 60.00 27.54 12.46 PK N	2	1.3020	35.37	19.78	56.00	20.63	15.59	PK	N		
5 5.5050 32.46 20.00 60.00 27.54 12.46 PK N	3	2.1480	35.11	19.86	56.00	20.89	15.25	PK	N		
	4	3.1290	34.08	19.94	56.00	21.92	14.14	PK	N		
6 14.7345 26.34 19.80 60.00 33.66 6.54 PK N	5	5.5050	32.46	20.00	60.00	27.54	12.46	PK	N		
	6	14.7345	26.34	19.80	60.00	33.66	6.54	PK	N		

Remark: Margin = Limit – Level Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

		Class A (at 10m)	Class B (at 3m) dBuV/m		
A	FREQUENCY (MHz)	dBuV/m			
	30 ~ 88	39.0	40.0		
51	88 ~ 216	43.5	43.5		
	216 ~ 960	46.5	46.0		
	Above 960	49.5	54.0		

Notes:

- (1) The limit for radiated test was performed according to as following: FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

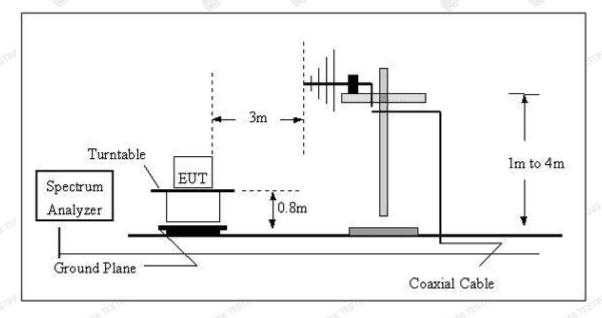
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP(AV) Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.

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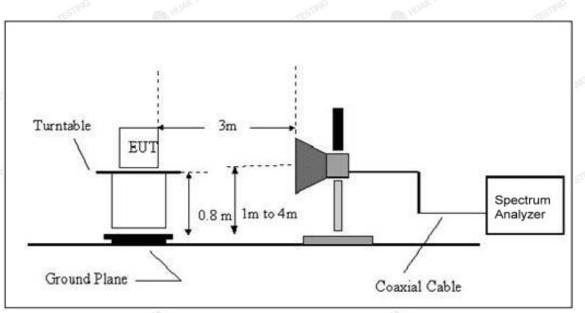


3.2.3 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

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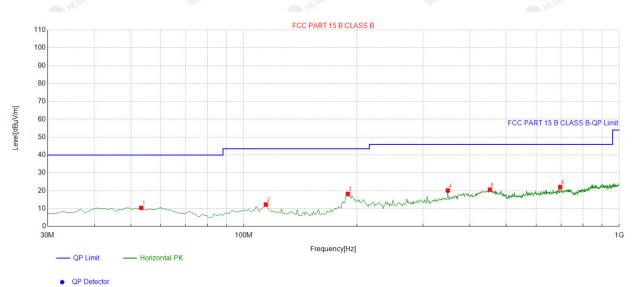
Report No.: HK2503261491-E

FICATION

3.2.5 TEST RESULTS Note:

All the test modes completed for test. only the worst result of was reported.

Camera Detector	Model Name :	X18
24 ℃	Relative Humidity :	54%
1010 hPa	Test Date :	2025-03-27
Mode 1	Polarization :	Horizontal
DC 5V From Type-C	TESTING	HUAKTES
	24 ℃ 1010 hPa Mode 1	24 °CRelative Humidity :1010 hPaTest Date :Mode 1Polarization :



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8		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµ∨/m]	[dBµ∨/m]	[dB]	[cm]	[°]	Polarity
	1	53.303303	-13.66	24.08	10.42	40.00	29.58	100	100	Horizontal
8	2	114.47447	-15.28	27.54	12.26	43.50	31.24	100	358	Horizontal
	3	189.23923	-15.52	33.79	18.27	43.50	25.23	100	181	Horizontal
5	4	349.44944	-10.04	30.20	20.16	46.00	25.84	100	0	Horizontal
2	5	452.37237	-8.81	29.41	20.60	46.00	25.40	100	28	Horizontal
	6	696.08608	-4.24	26.34	22.10	46.00	23.90	100	217	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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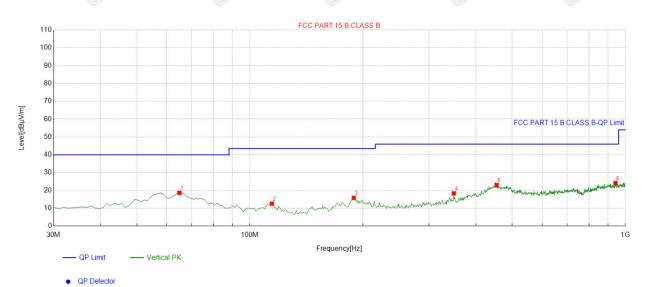
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Report No.: HK2503261491-E

EUT :	Camera Detector	Model Name :	X18
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2025-03-27
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 5V From Type-C	HUAK TES "	HUNKTES



	Suspected List									
3		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
8	1	64.954955	-15.33	33.95	18.62	40.00	21.38	100	48	Vertical
	2	114.47447	-15.28	27.85	12.57	43.50	30.93	100	208	Vertical
	3	189.23923	-15.52	31.35	15.83	43.50	27.67	100	169	Vertical
	4	349.44944	-10.04	28.44	18.40	46.00	27.60	100	135	Vertical
3	5	454.31431	-8.83	31.87	23.04	46.00	22.96	100	281	Vertical
r.	6	941,74174	-0.78	24.93	24.15	46.00	21.85	100	48	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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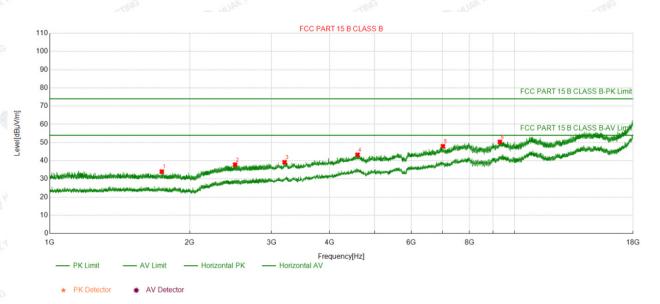
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3.2.6 TEST RESULTS(Above 1GHz)

EUT :	Camera Detector	Model Name :	X18	
Temperature :	24 ℃	Relative Humidity :	54%	
Pressure :	1010 hPa	Test Date :	2025-03-27	ING
Test Mode :	Mode 3	Polarization :	Horizontal	
Test Power :	DC3.7V from battery		STING	



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ł	NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
2		[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	1742.0742	-19.93	53.93	34.00	74.00	40.00	150	98	Horizontal
	2	2504.9504	-16.22	54.05	37.83	74.00	36.17	150	13	Horizontal
٢	3	3201.0201	-14.52	53.66	39.14	74.00	34.86	150	316	Horizontal
	4	4594.6594	-9.53	52.78	43.25	74.00	30.75	150	140	Horizontal
ŝ	5	7014.4014	-4.35	52.31	47.96	74.00	26.04	150	298	Horizontal
	6	9303.6303	-1.43	51.76	50.33	74.00	23.67	150	1	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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HUAK TESTING

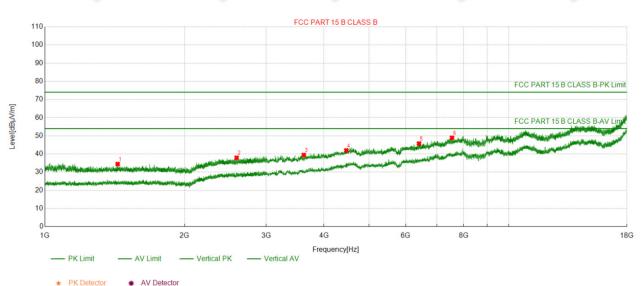
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EUT :	Camera Detector	Model Name :	X18
Temperature :	24 ℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2025-03-27
Test Mode :	Mode 3	Polarization :	Vertical
Test Power :	DC3.7V from battery	HUAKTEST	HUAKTESI



		* PK Delector	AV Delector							
	Suspe	cted List								
	NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polanty
Q.	1	1435.2435	-20.30	54.76	34.46	74.00	39.54	150	253	Vertical
	2	2590.5590	-16.04	53.95	37.91	74.00	36.09	150	324	Vertical
	3	3616.5616	-13.22	52.65	39.43	74.00	34.57	150	241	Vertical
	4	4467.1467	-10.10	52.06	41.96	74.00	32.04	150	80	Vertical
X	5	6409.8409	-7.16	52.90	45.74	74.00	28.26	150	174	Vertical
2	6	7549.9549	-3.69	52. <mark>61</mark>	48.92	74.00	25.08	150	75	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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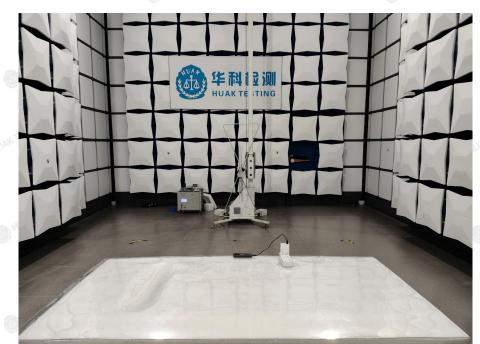


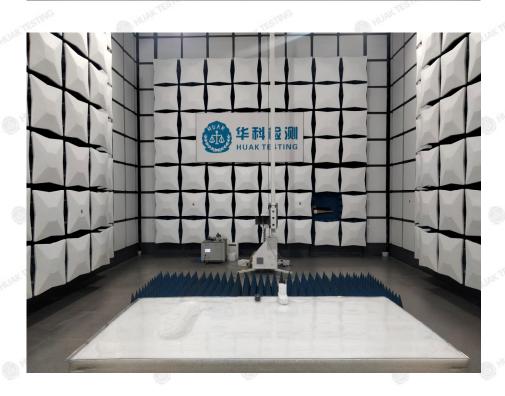
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4. EUT TEST PHOTOS

Radiated Emission





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Conducted Emission



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5. Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos

-----End of test report-

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