

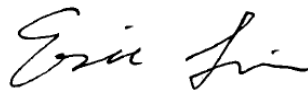
1 Cover Page

RF Exposure Evaluation Report

Application No.: KSCR2203000380
FCC ID: 2ADTD-CP03029601219
Applicant: Hangzhou Hikvision Digital Technology Co., Ltd
Address of Applicant: 555 Qianmo Road, Binjiang District, Hangzhou, Hangzhou, Zhejiang, China
Manufacturer: Hangzhou Hikvision Digital Technology Co., Ltd
Address of Manufacturer: 555 Qianmo Road, Binjiang District, Hangzhou, Hangzhou, Zhejiang, China
Factory: 1.Hangzhou Hikvision Electronics Co., Ltd.
 2.Hangzhou Hikvision Technology Co., Ltd.
 3.CHONGQING HIKVISION TECHNOLOGY CO.,LTD.
Address of Factory: 1.No.299,Qiushi Road,Tonglu Economic Development Zone,Tonglu County, Hangzhou,Zhejiang
 2.No.700 Dongliu Road, Binjiang District, Hangzhou 310052, China
 3.No. 118, Haikang Road, Area C, Jianqiao Industrial Park, Dadukou District, Chongqing, 401325,China
Equipment Under Test (EUT):
EUT Name: AX PRO
Model No.: DS-PWA96-M2H-WB
Add Model No: DS-PWA96-M2H-WBUHK,DS-PWA96-M2H-WBCKV,DS-PWA96-M2H-WBUVS,DS-PWA96-M2H-WBKVO,DS-PWA96-M2H-WBHUN
Standard(s) : FCC Rules 47 CFR §2.1091
 KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt: 2022-03-24
Date of Test: 2022-05-10 to 2022-05-15
Date of Issue: 2022-05-16

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Eric Lin
 EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-05-16		Original

Authorized for issue by:			
		<i>Pawn. Liu</i>	
		Pawn.Liu/Project Engineer	
		<i>Eric Lin</i>	
		Eric Lin/Reviewer	



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3 General Information

3.1 General Description of E.U.T.

Power supply:	AC 100-240V,50/60Hz,0.2-0.1A
---------------	------------------------------

3.2 Technical Specifications

2.4GHz

Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11;802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	Ant1:PCB Antenna; Ant2:PCB Antenna
Antenna Gain:	Ant 1:2.04dBi (Provided by manufacturer) Ant 2:3.51dBi (Provided by manufacturer) Directional Gain: 5.85dBi



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433MHz

Operation Frequency	R3 module:433.1-433.7MHz;RX module:434.6MHz
Channel Numbers:	R3 module: 7;RX module: 1
Channel Space	R3 module:100KHz
Modulation Type:	ASK
Antenna Gain:	R3 module: Ant 1:-3.5dBi , (Provided by manufacturer) Ant 2:-3.1dBi ; (Provided by manufacturer) RX module: Ant 1:-3.5dBi , (Provided by manufacturer) Ant 2:-3.1dBi (Provided by manufacturer)
Antenna Type:	R3 module:Ant1;PCB antenna,Ant2 :PCB antenna; RX module:Ant1;PCB antenna,Ant2 :PCB antenna;

GSM

GSM Operation Frequency Band:	GSM850/1900
Modulation Type:	GMSK,8PSK
Antenna Type:	LDS
Antenna Gain:	GSM850:-2.51dBi GSM1900:-2.51dBi

WCDMA

WCDMA Operation Frequency Band:	Band2/5
Modulation Type:	QPSK, 16QAM
Antenna Type:	LDS
Antenna Gain:	Band2:-2.51dBi Band5: -2.51dBi

LTE



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LTE Operation Frequency Band:	Band2/4/5/28/66
Modulation Type:	QPSK, 16QAM
Antenna Type:	LDS
Antenna Gain:	Band2:-2.51dBi Band4:-2.94dBi Band5:-2.51dBi Band28:-5.97dBi Band66:-2.70dBi



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3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

3.4 Test Facility

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

• **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• **FCC (Designation Number: CN1172)**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

• **ISED (CAB identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

CAB Identifier: CN0072.

• **VCCI (Member No.: 1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-1600, C-1707, T-1499, G-10216 respectively.



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4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits:

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency	Power density(mW/cm ²)	Averaging time(minutes)
300MHz~1.5GHz	f/1500	30
1.5GHz~100GHz	1.0	30

1) Note: PSD limit for 2.4G=1 MW/cm² ,for 433MHz=0.289 MW/cm² ,For GSM850=0.549 MW/cm² ,GSM1900=1 MW/cm² ,For WCDMA Band2=1 MW/cm² ,WCDMA Band5=0.549 MW/cm² ,For LTE Band 2=1 MW/cm² ,LTE Band4=1 MW/cm² ,LTE Band5=0.549 MW/cm² ,LTE Band28=0.469 MW/cm² ,LTE Band66=1 MW/cm² .



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5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR220300038001, KSCR220300038002, 2.4G

Test Mode	Channel	Antenna 1 Power[dBm]	Antenna 2 Power[dBm]	MIMO Power[dBm]	Antenna 1 Power[mW]	Antenna 2 Power[mW]	MIMO Power[mW]
11B	2412	13.67	13.73	NA	23.28	23.60	N/A
11B	2437	13.75	14.11	NA	23.71	25.76	N/A
11B	2462	13.47	14.32	NA	22.23	27.04	N/A
11G	2412	14.45	13.55	NA	27.86	22.65	N/A
11G	2437	14.56	13.95	NA	28.58	24.83	N/A
11G	2462	14.29	14.21	NA	26.85	26.36	N/A
11N20MIMO	2412	14.32	13.54	16.96	27.04	22.59	49.66
11N20MIMO	2437	14.43	13.95	17.21	27.73	24.83	52.60
11N20MIMO	2462	14.20	14.18	17.20	26.30	26.18	52.48
11N40MIMO	2422	14.40	13.26	16.88	27.54	21.18	48.75
11N40MIMO	2437	14.44	13.53	17.02	27.80	22.54	50.35
11N40MIMO	2452	14.32	13.70	17.03	27.04	23.44	50.47

433MHz

Module	Frequency (MHz)	Antenna 1 Power[dBuV/m]	Antenna 2 Power[dBuV/m]	Antenna 1 Power[dBm]	Antenna 2 Power[dBm]	Antenna 1 Power[mW]	Antenna 2 Power[mW]
R3	433.10	71.87	73.91	-23.33	-21.29	0.005	0.007
R3	433.70	71.19	73.77	-24.01	-21.43	0.005	0.004
RX	434.60	70.81	73.50	-24.39	-21.70	0.004	0.007

Remark: Power(dBm)= Power(dBuV/m@3m)-95.2



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5.2 MPE Calculation

According to the formula $S=P/4\pi R^2$, we can calculate S which is MPE.

Note:

- 2) P (mW)
- 3) R = distance to the center of radiation of antenna (in meter) = 20cm
- 4) MPE limit = 1mW/cm²

For 2.4G WiFi –Antenna1:

The max. antenna gain is 2.04 dBi

Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
28.58	1.600	20	0.00909	1	Pass

For 2.4G WiFi –Antenna2:

The max. antenna gain is 3.51 dBi

Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
27.04	2.244	20	0.01207	1	Pass

In MIMO mode:

Two antennas can transmit simultaneously and they are correlated.

The max. antenna gain is 5.85 dBi

Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
52.6	3.846	20	0.04025	1	Pass

For R3 module –Antenna1:



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Max. Power P(mW)	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
0.005	20	0.000001	0.289	Pass

For R3 module –Antenna2:

Max. Power P(mW)	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
0.007	20	0.000001	0.289	Pass

For RX module –Antenna1:

Max. Power P(mW)	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
0.004	20	0.000001	0.289	Pass

For RX module –Antenna2:

Max. Power P(mW)	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
0.007	20	0.000001	0.289	Pass

For GSM

Power data based on report No. I22W00025-GSM RF_Rev2

Band Information	Antenna Gain (dBi)	Gain in Linear Scale G	Operation Distance R(cm)	Max Tune-up power (dBm)	Max Tune-up power (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result



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 No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

☎(86-512)57355888 ☎(86-512)57370818 www.sgsgroup.com.cn
 ☎(86-512)57355888 ☎(86-512)57370818 sgs.china@sgs.com

GSM850	-2.51	0.56	20	35	3162.28	0.352	0.549	Pass
GSM1900	-2.51	0.56	20	32	1584.89	0.177	1.000	Pass

For WCDMA

Power data based on report No. I22W00025-WCDMA RF_Rev2

Band Information	Antenna Gain (dBi)	Gain in Linear Scale G	Operation Distance R(cm)	Max Tune-up power (dBm)	Max Tune-up power (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
WCDMA Band2	-2.51	0.56	20	24	251.19	0.028	1.000	Pass
WCDMA Band2	-2.51	0.56	20	26	398.11	0.044	0.549	Pass

For LTE

Power data based on report No. I22W00025-LTE RF_Rev2

Band Information	Antenna Gain (dBi)	Gain in Linear Scale G	Operation Distance R(cm)	Max Tune-up power (dBm)	Max Tune-up power (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
LTE Band 2	-2.51	0.56	20	25	316.23	0.035	1.000	Pass
LTE Band 4	-2.94	0.51	20	23	199.53	0.020	1.000	Pass
LTE Band 5	-2.51	0.56	20	26	398.11	0.044	0.549	Pass
LTE Band 28	-5.97	0.25	20	24	251.19	0.013	0.469	Pass
LTE Band 66	-2.70	0.54	20	26	398.11	0.043	1.000	Pass

WiFi and 433MHz and LTE modules can simultaneous transmitting, so the maximum rate of MPE is $0.04025/1+0.000001/0.286+0.000001/0.286+0.352/0.549=0.681 \leq 1.0$. according to the KDB447498 section 7.2 determine the device is exclusion from SAR test.

--End of the Report--



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