

Test Report

Applicant : XIAMEN IMGs TECHNOLOGIES CO.,LTD.
Address : 19th Floor, 482 Xinglinwan Road,Jimei District, Xiamen,
China
Product Name : Digital Signage
Brand Mark : IMGs
Model : LCD185S-D01A
Report Number : BLA-EMC-202503-A00203
FCC ID : 2BN2NLCD
Date of Receipt : Mar.05,2025
Date of Test : Mar.11,2025 to Apr.01,2025
47 CFR Part 15, Part1.1307
Test Standard : 47 CFR Part 15, Part2.1093
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

Compiled by:

charlie

Review by:

Sueels

Approved by:

Jing Zheng

Issued Date:

Apr.02, 2025



BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

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Revise Record

Version No.	Date	Description
01	Apr.02,2025	Original

1 General information

1.1 General information

Applicant	XIAMEN iMGS TECHNOLOGIES CO.,LTD.
Address	19th Floor, 482 Xinglinwan Road,Jimei District, Xiamen, China
Manufacturer	iMGS SMART GLASS TECHNOLOGIES(FUJIAN) CO., LTD.
Address	Room C101, No. 5-2 Zhongwan Road, Jimei District, Xiamen City
Factory	N/A
Address	N/A

1.2 General description of EUT

Product Name	Digital Signage
Model No.	LCD185S-D01A
Series model	LCD097X-XXXX , LCD4X-XXXX , LCD7X-XXXX , LCD8X-XXXX , LCD9X-XXXX , LCD10X-XXXX , LCD12X-XXXX , LCD133X-XXXX , LCD14X-XXXX , LCD141X-XXXX , LCD164X-XXXX , LCD190X-XXXX , LCD191X-XXXX , LCD195X-XXXX , LCD231X-XXXX , LCD154X-XXXX , LCD156X-XXXX , LCD185X-XXXX , LCD213X-XXXX , LCD215X-XXXX , LCD220X-XXXX , LCD233X-XXXX , LCD238X-XXXX , LCD240X-XXXX , LCD245X-XXXX , LCD266X-XXXX , LCD276X-XXXX , LCD279X-XXXX , LCD280X-XXXX , LCD282X-XXXX , LCD285X-XXXX , LCD286X-XXXX , LCD290X-XXXX , LCD312X-XXXX , LCD315X-XXXX , LCD332X-XXXX , LCD345X-XXXX , LCD350X-XXXX , LCD366X-XXXX , LCD370X-XXXX , LCD377X-XXXX , LCD378X-XXXX , LCD430X-XXXX , LCD437X-XXXX , LCD438X-XXXX , LCD471X-XXXX , LCD476X-XXXX , LCD49X-XXXX , LCD538X-XXXX , LCD15X-XXXX , LCD16X-XXXX , LCD17X-XXXX , LCD18X-XXXX , LCD19X-XXXX , LCD20X-XXXX , LCD21X-XXXX , LCD22X-XXXX , LCD23X-XXXX , LCD24X-XXXX , LCD25X-XXXX , LCD26X-XXXX , LCD27X-XXXX , LCD28X-XXXX , LCD29X-XXXX , LCD30X-XXXX , LCD31X-XXXX , LCD32X-XXXX , LCD33X-XXXX , LCD34X-XXXX , LCD35X-XXXX , LCD36X-XXXX , LCD37X-XXXX , LCD38X-XXXX , LCD39X-XXXX , LCD40X-XXXX , LCD41X-XXXX , LCD42X-XXXX , LCD43X-XXXX , LCD44X-XXXX , LCD45X-XXXX , LCD46X-XXXX , LCD47X-XXXX , LCD48X-XXXX , LCD49X-XXXX , LCD50X-XXXX , LCD51X-XXXX , LCD52X-XXXX , LCD53X-XXXX , LCD54X-XXXX , LCD55X-XXXX , LCD56X-XXXX , LCD57X-XXXX , LCD579X-XXXX , LCD58X-XXXX , LCD583X-XXXX , LCD584X-XXXX , LCD585X-XXXX , LCD59X-XXXX , LCD60X-XXXX , LCD61X-XXXX , LCD62X-XXXX , LCD63X-XXXX , LCD64X-XXXX ,

	LCD65X-XXXX , LCD66X-XXXX , LCD67X-XXXX , LCD68X-XXXX , LCD69X-XXXX , LCD70X-XXXX , LCD71X-XXXX , LCD72X-XXXX , LCD73X-XXXX , LCD74X-XXXX , LCD75X-XXXX , LCD750X-XXXX , LCD76X-XXXX , LCD77X-XXXX , LCD78X-XXXX , LCD79X-XXXX , LCD80X-XXXX , LCD81X-XXXX , LCD814X-XXXX , LCD82X-XXXX , LCD83X-XXXX , LCD84X-XXXX , LCD85X-XXXX , LCD86X-XXXX , LCD87X-XXXX , LCD88X-XXXX , LCD89X-XXXX , LCD90X-XXXX , LCD91X-XXXX , LCD92X-XXXX , LCD93X-XXXX , LCD94X-XXXX , LCD95X-XXXX , LCD96X-XXXX , LCD97X-XXXX , LCD98X-XXXX , LCD99X-XXXX , LCD100X-XXXX , LCD101X-XXXX , LCD102X-XXXX , LCD103X-XXXX , LCD104X-XXXX , LCD105X-XXXX , LCD106X-XXXX , LCD107X-XXXX , LCD108X-XXXX , LCD109X-XXXX , LCD110X-XXXX , LCD111X-XXXX , LCD112X-XXXX , LCD113X-XXXX , LCD114X-XXXX , LCD115X-XXXX , LCD116X-XXXX , LCD117X-XXXX , LCD118X-XXXX , LCD119X-XXXX , LCD120X-XXXX , LCD122X-XXXX , LCD124X-XXXX
Differences of Series model	" X "is 0-9 or A-Z or" - "or". "or a space." X "only indicates distinguishing market or customer codes and does not affect the safety and electromagnetic compatibility of the product, All models of hardware and software designs are identical.
Power supply or adapter information	 Switching Power Supply (电源适配器) MODEL (产品型号) : XSI-1205000WC14 INPUT (交流输入) : 100-240V~50/60Hz 1.2A Max. OUTPUT (直流输出) : 12.0V === 5.0A 60.0W This device complies with Part 15 of the FCC Rules I.T.E. POWER SUPPLY UL LISTED E480515 LPS FC CE CCC VI UL Japan 深圳市新赛科技有限公司制造 Shenzhen Sunshine Technological Co.,Ltd. MADE IN CHINA (中国制造)
Hardware Version	N/A
Software Version	N/A
Engineer sample no	BLA-EMC-202503-A002
Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.	

For 2.4GWIFI

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)
Nominal Bandwidth	20MHz&40MHz
Channel Spacing	5MHz
Number of Channels	802.11b/g/n(HT20): 11 802.11n(HT40):7
Antenna Type	FPC antenna
Antenna Gain	5.2dBi(Provided by customer)

2 Laboratory and accreditations

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

Company name:	BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Address:	Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
ISED CAB identifier No.:	CN0028
Telephone:	+86-755-28682673
FAX:	+86-755-28682673

3 RF Exposure Compliance Requirement

3.1 Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

3.2 Limits

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

3.3 Result

Calculated Result and Limit (WORSE CASE IS AS BELOW)

Mode	Frequency (MHz)	Max Output power(dBm)	Max Output power(mW)	Ant gain (dBi)	Evaluation ERP(dBm)	Evaluation ERP(mW)	Limit of Pth(mW)	Result
2.4G WIFI:B	2412	13.837	24.19	5.2	16.537	45.05	3060.00	Pass

$ERP = \text{Max Output power} + \text{Ant gain} - 2.15$

Comply with RF exposure exemption limit.

----END OF REPORT----

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