



# Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR240800162205

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## 1 Cover Page

### ***RF Exposure Evaluation Report***

**Application No.:** KSCR2408001622AT  
**FCC ID:** 2ASCB-DH032TLB  
**Name of Testing Laboratory preparing the Report:** Compliance Certification Services (Kunshan) Inc.  
**Address of Testing Laboratory preparing the Report:** No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.  
**Applicant:** D2G Group LLC  
**Address of Applicant:** 81 Commerce Drive Fall River, MA 02720 USA  
**Manufacturer:** D2G Group LLC  
**Address of Manufacturer:** 81 Commerce Drive Fall River, MA 02720 USA  
**Factory:** Zhejiang Uniview System Technology Co., Ltd.  
**Address of Factory:** No.1277 Qingfeng South Road (South), Tongxiang Economic Development Zone, Tongxiang City, Jiaxing City, 314500, Zhejiang, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Digital Signage  
**Model No.:** DH032TLB, DH032NLB  
**Standard(s) :** FCC Rules 47 CFR §2.1091  
KDB 447498 D04 interim General RF Exposure Guidance v01  
**Date of Receipt:** 2024-08-23  
**Date of Test:** 2024-08-25 to 2024-10-12  
**Date of Issue:** 2024-10-12

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.





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<i>Revision Record</i>			
<i>Version</i>	<i>Description</i>	<i>Date</i>	<i>Remark</i>
00	Original	2024-10-12	/

<b>Authorized for issue by:</b>			
<b>Tested By</b>			
	<hr/>		
	<b>Maker Qi /Project Engineer</b>		
<b>Approved By</b>			
	<hr/>		
	<b>Terry Hou /Reviewer</b>		



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### 3 General Information

#### 3.1 General Description of E.U.T.

Power supply:	AC 120V/60Hz
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#### 3.2 Technical Specifications

##### BLE

Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Dipole Antenna
Antenna Gain:	3dBi (Provided by the manufacturer)

##### BT

Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	Dipole Antenna
Antenna Gain:	3dBi (Provided by the manufacturer)

##### 2.4GHz WiFi

Operation Frequency:	802.11b/g/n(HT20)/ax(HE20):2412MHz to 2462MHz; 802.11n(HT40)/ax(HE40):2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK), 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK), 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM)
Number of Channels:	802.11b/g/n(HT20)/ax(HE20):11;802.11n(HT40)/ax(HE40):7
Channel Spacing:	5MHz
Antenna Type:	Dipole Antenna
Antenna Gain:	3dBi (Provided by the manufacturer)

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### 5GHz WiFi

Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels); U-NII-2A: 5260-5320MHz (4 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	U-NII-1: 5190-5230MHz (2 Channels); U-NII-2A: 5270-5310MHz (2 Channels); U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	U-NII-1: 5210MHz (1 Channel); U-NII-2A: 5290MHz (1 Channels); U-NII-3: 5775MHz (1 Channel)
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM)
Channel Spacing:	802.11a/n/ac/ax 20: 20MHz; 802.11n/ac/ax 40: 40MHz; 802.11ac/ax 80: 80MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	Dipole Antenna
Antenna Gain:	3dBi (Provided by the manufacturer)



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### 3.3 Separation Distance

Separation distance between the antenna to person (R):	>20cm
Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander. R has been stated in user manual.	

### 3.4 Test Location

**Lab A:**

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

**Lab B:**

Conducted Emissions at AC Power Line (150kHz-30MHz); Radiated Emissions; Radiated Emissions which fall in the restricted bands test at:

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu)

Pilot Free Trade Zone

**Note:**

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc ) is provided by the applicant. (if applicable).

2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

3. Sample source: sent by customer.

### 3.5 Test Facility

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

**Lab A:****• A2LA**

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

**• FCC**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

**• ISED**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

**• VCCI**

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-20134, R-11600, C-11707, T-11499, G-10216 respectively.

**Lab B:****• A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

**• Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

**• FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

## 4 RF Exposure Test Exemptions

Test exemptions apply for devices used in general population/uncontrolled exposure environments, according to the SAR-based, or MPE-based exemption thresholds.

### 4.1 FCC RF Exposure Test Exemptions for single RF sources

#### 4.1.1 Blanket 1 mW Blanket Exemption

The 1 mW Blanket Exemption of §1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

The 1-mW blanket exemption applies at separation distances less than 0.5 cm, including where there is no separation. This exemption shall not be used in conjunction with other exemption criteria other than those for multiple RF sources in paragraph §1.1307(b)(3)(ii)(A).

The 1-mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it shall not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period. Exposure from such higher-power transmitters would invalidate the underlying assumption that exposure from the lower-power transmitter is the only contributor to SAR in the relevant volume of tissue.

Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

#### 4.1.2 MPE-based Exemption

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz. The minimum separation distance ( $R$  in meters) from the body of a nearby person for the frequency ( $f$  in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply,  **$R$  must be at least  $\lambda/2\pi$** , where  $\lambda$  is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).



**Table B.1—Thresholds For Single RF Sources Subject to Routine Environmental Evaluation**

RF Source Frequency			Minimum Distance			Threshold ERP
$f_L$ MHz		$f_H$ MHz	$\lambda_L / 2\pi$		$\lambda_H / 2\pi$	$W$
0.3	–	1.34	159 m	–	35.6 m	1,920 R <sup>2</sup>
1.34	–	30	35.6 m	–	1.6 m	3,450 R <sup>2</sup> /f <sup>2</sup>
30	–	300	1.6 m	–	159 mm	3.83 R <sup>2</sup>
300	–	1,500	159 mm	–	31.8 mm	0.0128 R <sup>2</sup> f
1,500	–	100,000	31.8 mm	–	0.5 mm	19.2R <sup>2</sup>

Subscripts L and H are low and high;  $\lambda$  is wavelength.  
R: Separation distance between the antenna to person

The table applies to any RF source (i.e. single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least  $\lambda/2\pi$ . The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator.

Limit calculation				
Frequency range	Frequency(MHz)	$\lambda/2\pi$ (m)	R(m)	Threshold ERP(W)
1.34~30MHz	13.56	3.5229	3.6000	243.167
300~1500MHz	<b>433</b>	0.1103	0.6000	1.995
1500~10000MHz	<b>2462</b>	0.0194	0.2000	0.768
1500~10000MHz	<b>5825</b>	0.0082	0.2000	0.768

#### 4.1.3 SAR-based Exemption

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of  $\lambda/4$ .

As for devices with antennas of length greater than  $\lambda/4$  where the gain is not well defined, but always less than that of a half-wave dipole (length  $\lambda/2$ ), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.

The SAR-based exemption formula of §1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold  $P_{th}$  (mW).

This method shall only be used at separation distances from **0.5cm to 40cm** and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by Formula (B.2).

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

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).

Limit calculation				
Frequency range(GHz)	Frequency(GHz)	X	d(cm)	Pth (mW)
0.3~1.5	<b>0.45</b>	1.011	<b>1</b>	<b>44.373</b>
1.5~6	<b>2.462</b>	1.903	<b>20</b>	<b>3060.000</b>

#### 4.2 RF Exposure Test Exemptions for Simultaneous Transmission

The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

Either SAR-based or MPE-based exemption may be considered for test exemption for fixed, mobile, or portable device exposure conditions; therefore, the contributions from each exemption in conjunction with the measured SAR (Evaluated $k$  term) shall be used to determine exemption for simultaneous transmission. In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

Where:

**a** = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for  $P_{th}$ , including existing exempt transmitters and those being added.



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**b** = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

**c** = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

**P<sub>i</sub>** = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source *i* at a distance between 0.5 cm and 40 cm (inclusive).

**P<sub>th,i</sub>** = the exemption threshold power (P<sub>th</sub>) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source *i*.

**ERP<sub>j</sub>** = the ERP of fixed, mobile, or portable RF source *j*.

**ERP<sub>th,j</sub>** = exemption threshold ERP for fixed, mobile, or portable RF source *j*, at a distance of at least  $\lambda / 2\pi$  according to the applicable formula of paragraph (b)(3)(i)(C) of this section.

**Evaluated<sub>k</sub>** = the maximum reported SAR or MPE of fixed, mobile, or portable RF source *k* either in the device or at the transmitter site from an existing evaluation at the location of exposure.

**Exposure Limit<sub>k</sub>** = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source *k*, as applicable from § 1.1310 of this chapter.

## 5 Asurement and Calculation

### 5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR240800162201, KSCR240800162202, KSCR240800162203, KSCR240800162204

#### BT

Test Mode	Test Frequency (MHz)	Output Power (dBm)	Reading Power (mW)
GFSK	2402	3.45	2.21
	2441	4.69	2.94
	2480	5.63	3.66
π/4DQPSK	2402	5.34	3.42
	2441	6.73	4.71
	2480	7.64	5.81
8DPSK	2402	6.28	4.25
	2441	7.36	5.45
	2480	8.22	6.64

#### BLE

Test Mode	Test Frequency (MHz)	Output Power (dBm)	Reading Power (mW)
1M	2402	3.00	2.00
	2440	4.28	2.68
	2480	5.23	3.33
2M	2402	3.03	2.01
	2440	4.30	2.69
	2480	5.29	3.38

#### 2.4G WiFi

Test Mode	Test Channel	Ant	Power [dBm]	Power [mW]
11B SISO	2412	Ant1	14.98	31.48
11B SISO	2437	Ant1	14.75	29.85
11B SISO	2462	Ant1	14.89	30.83
11G SISO	2412	Ant1	11.74	14.93
11G SISO	2437	Ant1	13.42	21.98
11G SISO	2462	Ant1	12.82	19.14
HT20	2412	Ant1	11.64	14.59
HT20	2437	Ant1	13.32	21.48
HT20	2462	Ant1	12.71	18.66
HT40	2422	Ant1	9.32	8.55
HT40	2437	Ant1	13.28	21.28
HT40	2452	Ant1	12.90	19.50



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HE20	2412	Ant1	8.56	7.18
HE20	2437	Ant1	12.32	17.06
HE20	2462	Ant1	11.69	14.76
HE40	2422	Ant1	8.31	6.78
HE40	2437	Ant1	12.33	17.10
HE40	2452	Ant1	11.96	15.70

### 5G WiFi

Test Mode	Test Frequency (MHz)	Ant 1 Antenna Power (dBm)	Ant 1 Antenna Power (mW)
802.11a	5180	11.87	15.38
	5200	12.11	16.26
	5240	12.31	17.02
	5260	11.60	14.45
	5300	12.14	16.37
	5320	12.07	16.11
	5745	12.08	16.14
	5785	12.56	18.03
802.11ac (VHT20)	5825	12.15	16.41
	5180	11.48	14.06
	5200	13.01	14.06
	5240	12.97	20.00
	5260	12.60	19.82
	5300	11.54	18.20
	5320	10.85	14.26
	5745	11.15	12.16
802.11ac (VHT40)	5785	13.28	13.03
	5825	14.27	21.28
	5190	11.89	15.45
	5230	13.24	21.09
	5270	12.86	19.32
802.11ac (VHT80)	5310	14.13	25.88
	5755	14.00	25.12
	5795	14.49	28.12
802.11ac (VHT80)	5210	13.75	23.71
	5290	11.32	13.55
	5775	14.10	25.70
802.11ax (HEW40)	5180	13.45	22.13
	5200	12.61	18.24
	5240	12.76	18.88
	5260	11.59	14.42
	5300	11.54	14.26
	5320	11.80	15.14
	5745	12.87	19.36
	5785	11.33	13.58
802.11ax (HEW40)	5825	14.05	25.41
	5190	12.66	18.45
	5230	13.90	24.55
802.11ax (HEW40)	5270	13.57	22.75



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	5310	14.04	25.35
	5755	13.92	24.66
	5795	13.50	22.39
802.11ax (HEW80)	5210	12.74	18.79
	5290	12.71	18.66
	5775	13.01	20.00

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### 5.2 RF Exposure Calculation

For single RF source :

	Evaluation method	Separation distance between the antenna to person (R)
<input type="checkbox"/>	Blanket 1 mW Blanket Exemption	Regardless of separation distance
<input type="checkbox"/>	MPE-based Exemption(ERP)	$R \geq (\lambda / 2\pi)$
<input checked="" type="checkbox"/>	SAR-based Exemption( $P_{th}$ )	$0.5\text{cm} < R < 40\text{cm}$

Band	Frequency	Max power (dBm)	Ant Gain (dBi)	EIRP (dBm)	Max EIRP (mW)	Limit (mW)	Distance R (cm)
BLE	2402-2480	5.29	3	8.29	6.75	3060	20
BT	2402-2480	8.22	3	11.22	13.24	3060	20
WLAN 2.4GHz	2412-2462	14.98	3	17.98	62.81	3060	20
WLAN 5GHz B1	5150-5250	13.9	3	16.9	48.98	3060	20
WLAN 5GHz B2	5250-5350	14.13	3	17.13	51.64	3060	20
WLAN 5GHz B4	5725-5850	14.49	3	17.49	56.10	3060	20

For multiple RF sources:

The BT and WLAN can transmit simultaneously, but  $13.24/3060 + 62.81/3060 = 0.025 \leq 1$ . So the MPE of collocated transmitter is compliant.

--End of the Report--