



## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250400147607

Page: 1 of 12

# RF EXPOSURE EVALUATION REPORT

**Application No.:**

SZCR2504001476AT

**Applicant:**

Harman Connected Services Inc.,

**Address of Applicant:**

445 Indio Way, Sunnyvale, California 94085, United States

**Manufacturer:**

Harman Connected Services Inc.,

**Address of Manufacturer:**

445 Indio Way, Sunnyvale, California 94085, United States

**Factory:**

Invendis Technologies India Pvt Ltd

**Address of Factory:**

#230, KAS Officers Colony, BTM Stage 2, Bengaluru, Karnataka 560068, India

**Equipment Under Test (EUT):**

**EUT Name:** Harman Edge Compute Platform

**Model No.:** HAR-DTS-EC-IA018-2024

**Trade Mark:** HARMAN(© HARMAN INTERNATIONAL INDUSTRIES, INCORPORATED)

**FCC ID:** 2BO4C-HARECP018

**Standard(s) :** 47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1091

**Date of Receipt:** 2025-04-14

**Date of Evaluation:** 2025-05-13 to 2025-06-10

**Date of Issue:** 2025-06-10

**Evaluation Result:**

Pass\*

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

Keny Xu

EMC Laboratory Manager



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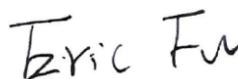
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**Revision Record**

Version	Chapter	Date	Modifier	Remark
01		2025-06-10		Original

**Authorized for issue by:**

		 Charlie Dai		
		Charlie Dai/Project Engineer		
		 Eric Fu		
		Eric Fu/Reviewer		

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### 3 General Information

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

Product Type:	<input type="checkbox"/> Portable device
	<input type="checkbox"/> Mobile device
	<input checked="" type="checkbox"/> Fixed device

### 3.2 Details of E.U.T.

Power supply:	Power by switching adapter Model No.: GST90A19) Input: AC 100-240V, 50/60Hz, 1.3A Output: DC 19.0V, 4.74A, 90W
Cable(s):	AC Cable 3pin 172cm unshielded
<b>For 2.4G WIFI:</b>	
Operation Frequency:	802.11b/g/n(HT20)/VHT20/ax(HEW20): 2412MHz to 2462MHz, 802.11n(HT40)/VHT40/ax(HEW40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK), 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK), 802.11VHT20/ VHT40: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK), 802.11HEW20/ HEW40: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK),
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20)/VHT20/ax(HEW20): 11, 802.11n(HT40)/VHT40/ax(HEW40):7
Antenna Type:	RP-SMA Dipole Antenna
Antenna Gain:	4.71dBi
<b>For 5G WIFI:</b>	
Operation Frequency / Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels); U-NII-3: 5745-5825MHz (5 Channels);
Operation Frequency / Number of channels (40MHz):	U-NII-1: 5190-5230MHz (2 Channels); U-NII-3: 5755-5795MHz (2 Channels);
Operation Frequency / Number of channels (80MHz):	U-NII-1: 5210MHz (1 Channel); 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);

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	802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Channel Spacing:	802.11a/n(HT20)/ac(VHT20)/ax(HEW20): 20MHz; 802.11n(HT40)/ac(VHT40)/ax(HEW40): 40MHz; 802.11ac(VHT80)/ax(HEW80): 80MHz
Antenna Type:	RP-SMA Dipole Antenna
Antenna Gain:	5.2G: 4.47dBi; 5.8G: 4.33dBi;

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

### 3.3 Separation Distance

Minimum test separation distance: 30cm

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.



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### 3.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 3.5 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

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

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

### 3.6 Deviation from Standards

None

### 3.7 Abnormalities from Standard Conditions

None

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## 4 FCC Radiofrequency radiation exposure limits

According to ANSI/IEEE C95.1-1992, the criteria listed in table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310

TABLE 1 TO § 1.1310(E)(1)—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(i) Limits for Occupational/Controlled Exposure</b>				
0.3–3.0 .....	614 .....	1.63 .....	*(100) .....	≤6
3.0–30 .....	1842/f .....	4.89/f .....	*(900/f <sup>2</sup> ) .....	≤6
30–300 .....	61.4 .....	0.163 .....	1.0 .....	≤6
300–1,500 .....	.....	.....	f/300 .....	≤6
1,500–100,000 .....	.....	.....	5 .....	≤6
<b>(ii) Limits for General Population/Uncontrolled Exposure</b>				
0.3–1.34 .....	614 .....	1.63 .....	*(100) .....	<30
1.34–30 .....	824/f .....	2.19/f .....	*(180/f <sup>2</sup> ) .....	<30
30–300 .....	27.5 .....	0.073 .....	0.2 .....	<30
300–1,500 .....	.....	.....	f/1500 .....	<30
1,500–100,000 .....	.....	.....	1.0 .....	<30

f = frequency in MHz. \* = Plane-wave equivalent power density.

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## 5 Measurement and Calculation

### Measurement and Calculation

For WIFI:

Non-Beamforming:

Mode	DG (dBi)	Max.Power	EIRP (dBm)	EIRP (mW)	Distance (cm)	S (mW/cm <sup>2</sup> )	S Limit (mW/cm <sup>2</sup> )	Ratio
2.4G WIFI	4.71	22.22	26.93	493.173804	30	0.04360604	1	0.043606
5.2G WIFI	4.47	23.1	27.57	571.4786367	30	0.05052969	1	0.0505297
5.8G WIFI	4.33	24.84	29.17	826.0379496	30	0.07303762	1	0.0730376

Beamforming:

Mode	DG (dBi)	Max.Power	EIRP (dBm)	EIRP (mW)	Distance (cm)	S (mW/cm <sup>2</sup> )	S Limit (mW/cm <sup>2</sup> )	Ratio
2.4G WIFI	7.72	21.89	29.61	914.1132415	30	0.08082517	1	0.0808252
5.2G WIFI	7.48	21.2	28.68	737.9042301	30	0.06524491	1	0.0652449
5.8G WIFI	7.34	24.39	31.73	1489.361078	30	0.13168812	1	0.1316881

Note: The above power data is from the module report with FCC ID TKZAW7915-NPD (Report No. FA211912-03).



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For WCDMA/LTE/NR (FCC ID RI7FN990A28):

Mode	Gain (dBi)	Max.Power	EIRP (dBm)	EIRP (mW)	Distance (cm)	S (mW/cm <sup>2</sup> )	S Limit (mW/cm <sup>2</sup> )	Ratio
WCDMA B2	2.62	24.5	27.12	515.2286446	30	0.04555611	1	0.0455561
WCDMA B4	2.62	24.5	27.12	515.2286446	30	0.04555611	1	0.0455561
WCDMA B5	2.78	24.5	27.28	534.5643594	30	0.04726576	0.549	0.0860943
LTE Band 2	2.62	24	26.62	459.1980128	30	0.04060192	1	0.0406019
LTE Band 4	2.62	24	26.62	459.1980128	30	0.04060192	1	0.0406019
LTE Band 5	2.78	24	26.78	476.4309868	30	0.04212565	0.549	0.0767316
LTE Band 7	3.49	24	27.49	561.047976	30	0.04960742	1	0.0496074
LTE Band 12	2.78	24	26.78	476.4309868	30	0.04212565	0.466	0.0903984
LTE Band 13	2.78	24	26.78	476.4309868	30	0.04212565	0.518	0.0813236
LTE Band 14	2.78	24	26.78	476.4309868	30	0.04212565	0.525	0.0802393
LTE Band 17	2.78	24	26.78	476.4309868	30	0.04212565	0.469	0.0898201
LTE Band 25	2.62	24	26.62	459.1980128	30	0.04060192	1	0.0406019
LTE Band 26	2.78	24	26.78	476.4309868	30	0.04212565	0.543	0.0775795
LTE Band 30	3.49	23	26.49	445.6562484	30	0.03940457	1	0.0394046
LTE Band 38	3.49	24	27.49	561.047976	30	0.04960742	1	0.0496074
LTE Band 41	3.49	26.5	29.99	997.7000638	30	0.08821585	1	0.0882158
LTE Band 42	1.22	22.5	23.72	235.5049284	30	0.02082316	1	0.0208232
LTE Band 43	1.22	22.5	23.72	235.5049284	30	0.02082316	1	0.0208232
LTE Band 48	1.22	22.5	23.72	235.5049284	30	0.02082316	1	0.0208232
LTE Band 66	2.62	24	26.62	459.1980128	30	0.04060192	1	0.0406019
LTE Band 71	2.78	24	26.78	476.4309868	30	0.04212565	0.442	<b>0.0953069</b>
NR Band 2	2.62	24.5	27.12	515.2286446	30	0.04555611	1	0.0455561
NR Band 5	2.78	24.5	27.28	534.5643594	30	0.04726576	0.549	0.0860943
NR Band 7	3.49	24.5	27.99	629.5061829	30	0.05566044	1	0.0556604
NR Band 12	2.78	24	26.78	476.4309868	30	0.04212565	0.466	0.0903984
NR Band 13	2.78	24	26.78	476.4309868	30	0.04212565	0.518	0.0813236
NR Band 14	2.78	24	26.78	476.4309868	30	0.04212565	0.525	0.0802393
NR Band 25	2.62	24.5	27.12	515.2286446	30	0.04555611	1	0.0455561
NR Band 26	2.78	24	26.78	476.4309868	30	0.04212565	0.543	0.0775795
NR Band 30	3.49	23	26.49	445.6562484	30	0.03940457	1	0.0394046
NR Band 38	3.49	25	28.49	706.3175543	30	0.06245204	1	0.062452
NR Band 41	3.49	27.5	30.99	1256.029964	30	0.11105717	1	<b>0.1110572</b>
NR Band 48	1.22	22.5	23.72	235.5049284	30	0.02082316	1	0.0208232
NR Band 66	2.62	24.5	27.12	515.2286446	30	0.04555611	1	0.0455561
NR Band 71	2.78	24.5	27.28	534.5643594	30	0.04726576	0.442	0.1069361
NR Band 77	1.22	27.5	28.72	744.7319739	30	0.06584861	1	0.0658486
NR Band 78	1.22	27.5	28.72	744.7319739	30	0.06584861	1	0.0658486

Note: The above power data is from the module report with FCC ID RI7FN990A28 (Report No. FA270608-10).



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**Exposure condition for simultaneous transmission operations**

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<sub>k</sub> term) shall be used to determine exemption for simultaneous transmission according to Formula (C.1) [repeated from § 1.1307(b)(3)(ii)(B)].

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

Remark:

a -number of fixed, mobile, or portable RF sources claiming exemption using the §1.1307(b)(3)(i)(B) formula for P<sub>th</sub>, including existing exempt transmitters and those being added.

b -number of fixed, mobile, or portable RF sources claiming exemption using the applicable § 1.1307(b)(3)(i)(C) Table 1 formula 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.

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 the § 1.1307(b)(3)(i)(B) formula for fixed, mobile, or portable RF source i.

ERP<sub>j</sub> -the available maximum time-averaged power or the ERP, whichever is greater, 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 § 1.1307(b)(3)(i)(C) Table 1 formula at the location in question.



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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.

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 sources, as applicable

**The Max. sum of the ratios = 2.4G WIFI+5G WIFI+LTE+NR= 0.081 +0.132 +0.095+0.111 = 0.419 < 1**

Therefore, the device is to qualify for simultaneous transmission SAR test exemption, the exemption report is in lieu of the SAR report.

So, the device is to qualify for SAR test exemption, the exemption report is in lieu of the SAR report.



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## 6 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2504001476AT.

-End of the Report-



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