

SZEMC-TRF-01 Rev. A/1

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RF Exposure Report

Application No.:	cation No.: SZCR2409003586AT		
Applicant:	ARMATURA LLC		
Address of Applicant:	190 Bluegrass Valley Parkway Alpharetta, Georgia, 30005, United States		
Manufacturer:	ARMATURA LLC		
Address of Manufacturer:	190 Bluegrass Valley Parkway Alpharetta, Georgia, 30005, United States		
Equipment Under Test (EU	Т):		
EUT Name:	UHF Reader		
Model No.:	AMTL-UHF-10, U1000F Pro, U1000E Pro 🔹		
*	Please refer to section 2.2 of this report which indicates which model was		
	actually tested and which were electrically identical.		
Trade Mark:	ARMATURA		
FCC ID:	2A5UQ-U1000		
Stor doud(a)	FCC Rules 47 CFR §2.1091		
Standard(s) :	KDB 447498 D04 interim General RF Exposure Guidance v01		
Date of Receipt:	2024-09-20		
Date of Test:	2024-09-27 to 2024-12-19		
Date of Issue:	2024-12-19		
Test Result:	Pass*		

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

Ceny. XM

Keny Xu **EMC Laboratory Manager**



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-12-19		Original

Authorized for issue by:		
	Bolisonti	
	Edison Li/Project Engineer	-
	Eric Fu	
	Eric Fu/Reviewer	-



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General Information 2

2.1 General Description of E.U.T.

	Portable device
Product Type:	Mobile device
	⊠ Fixed device

2.2 Details of E.U.T.

Power supply:	DC 12V
Internal Source: More than 108MHz	
Operation Frequency:	902.250MHz to 927.750MHz
Modulation Type:	GFSK
Channel spacing:	500KHz
Number of Channels:	52
Antenna Type:	PCB antenna
Antenna Gain:	9dBi

Channel Lists:							
Channel	Tx Frequency	Channel	Tx Frequency	Channel	Tx Frequency	Channel	Tx Frequency
Number	(MHz)	Number	(MHz)	Number	(MHz)	Number	(MHz)
1	902.250	14	908.750	27	915.250	40	921.750
2	902.750	15	909.250	28	915.750	41	922.250
3	903.250	16	909.750	29	916.250	42	922.750
4	903.750	17	910.250	30	916.750	43	923.250
5	904.250	18	910.750	31	917.250	44	923.750
6	904.750	19	911.250	32	917.750	45	924.250
7	905.250	20	911.750	33	918.250	46	924.750
8	905.750	21	912.250	34	918.750	47	925.250
9	906.250	22	912.750	35	919.250	48	925.750
10	906.750	23	913.250	36	919.750	49	926.250
11	907.250	24	913.750	37	920.250	50	926.750
12	907.750	25	914.250	38	920.750	51	927.250
13	908.250	26	914.750	39	921.250	52	927.750



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Declaration of EUT Family Grouping:

Model No.: AMTL-UHF-10, U1000F Pro, U1000E Pro

Only the model U1000F Pro was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on model No. and regional sales.

2.3 Separation Distance

Minimum test separation distance:	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.		



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2.4 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.

2.5 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.



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3 FCC Radiofrequency radiation exposure limits

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

3.1 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.

3.2 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.

RF Source Frequency		Minimum Distance			Threshold ERP	
<i>f</i> ∟ MHz		<i>f</i> ⊢ MHz	λ _L / 2π		λ _H / 2π	W
0.3	-	1.34	159 m	-	35.6 m	1,920 R ²
1.34	-	30	35.6 m	-	1.6 m	3,450 R²/f ²
30	-	300	1.6 m	-	159 mm	3.83 R ²
300	-	1,500	159 mm	-	31.8 mm	0.0128 R ² f
1,500	-	100,000	31.8 mm	-	0.5 mm	19.2R ²
Subscripts L and H are low and high; λ is wavelength.						
From §1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.						

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

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



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based on the general population MPE limits with a single perfect reflection, outside of the reactive nearfield, and in the main beam of the radiator.

For mobile devices that are not exempt per Table B.1 [Table 1 of \$1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in \$1.1310 is necessary if the ERP of the device is greater than *ERP*_{20cm} in Formula (B.1) [repeated from \$2.1091(c)(1); also in \$1.1307(b)(1)(i)(B)].

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

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only 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.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

Limit calculation				
Frequency range	Frequency(MHz)	R(λ/2π)(m)	Threshold ERP(W)	
300~1500MHz	915	0.0522	0.032	
1500~100000MHz	2480	0.0193	0.007	

3.3 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.



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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 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). $P_{\rm th}$ is given by Formula (B.2).

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

where

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

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

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

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Table B.2—Example Power Thresholds (Inw)										
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

Table B 2—Example Power Thresholds (mW)

Limit calculation					
Frequency range(GHz)	Frequency(GHz)	Х	Distance(cm)	Pth (mW)	
0.3~1.5	0.915	1.474	0.5	8.133	
1.5~6	2.44	1.901	0.5	2.753	



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4 Measurement and Calculation 4.1 Maximum transmit power

Standalone transmission

Test Mode	Frequency (MHz)	Maximum Conducted power [dBm]	Maximum Conducted power (mW)	Limit(mw)	Ratio	Verdict
Тx	927.750	15.77	37.76	3060	0.0123	Pass

Test Mode	Frequency (MHz)	Maximum EIRP power [dBm]	Maximum EIRP power (mW)	Limit(mw)	Ratio	Verdict
Тx	927.750	24.77	299.92	3060	0.0980	Pass

Note 1: RF Output Power is based on the RF Test Report SZCR240900358602.

2. Use the maximum power between the conducted power and ERP/EIRP to perform RF exposure exemption evaluation.

4.2 RF Exposure Calculation

Remark: we used the maximum power between the conducted power and ERP/EIRP to perform RF exposure exemption evaluation.

The Max. EIRP Power is 299.92mW, the best case gain of the Antenna: 9dBi.

	Evaluation method	Exempt Limit(mW)	Verdict
	Blanket 1 mW Blanket Exemption	1mW	N/A
	MPE-based Exemption(ERP)	7mW(ERP)	N/A
\boxtimes	SAR-based Exemption(Pth)	3060	Yes

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

--End of the Report--



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