

RF Exposure

Applicant : AMS SOLTECH
ZA DU CHEVALEMENT
Address : 8 RUE DES MOLETTES
59286 ROOST WARENDIN FRANCE
Product Name : 2.4GHz Digital Wireless System
Brand Mark : AMS
Model : VICAM-AMS-MS7-WL-HD
Series model : VICAM-AMS-MS9-WL-HD
FCC ID : 2BUJ3911W15
Report Number : BLA-EMC-202607-A31-03
Date of Receipt : July 7, 2026
Date of Test : July 7, 2026 to Sep. 3, 2026
47 CFR Part 15, Part1.1307
Test Standard : 47 CFR Part 15, Part2.1091
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

Compiled by: *Hugh*Review by: *Xavier*Approved by: *Blue Zheng*

Issued Date: Sep. 3, 2026

BlueAsia Technical Services(Shenzhen) Co., Ltd.

Address: No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Baoan District, Shenzhen, Guangdong, China



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Revise Record

Version No.	Date	Description
01	Sep. 3, 2026	Original

1 General information

1.1 General information

Applicant	AMS SOLTECH
Address	ZA DU CHEVALEMENT 8 RUE DES MOLETTES 59286 ROOST WARENDIN FRANCE
Manufacturer	AMS SOLTECH
Address	ZA DU CHEVALEMENT 8 RUE DES MOLETTES 59286 ROOST WARENDIN FRANCE
Factory	AMS SOLTECH
Address	ZA DU CHEVALEMENT 8 RUE DES MOLETTES 59286 ROOST WARENDIN FRANCE

1.2 General description of EUT

Product name	2.4GHz Digital Wireless System
Model no.	VICAM-AMS-MS7-WL-HD
Series model	VICAM-AMS-MS9-WL-HD
Desc of series model	Their electrical circuit design layout, components used and internal wiring are identical, only the model name and screen size are different.
Operating Frequency	2410 MHz -2474 MHz
Channel numbers:	33
Modulation Type:	QPSK
Antenna Type:	External antenna
Antenna Gain:	2.29dBi(Provided by customer)
Max. Field Strength:	107.61dBuV/m@3m
Power supply:	DC12V
Hardware Version	N/A
Software Version	N/A
Test engineer sample no.	BLA-EMC-202607-A31- VICAM-AMS-MS7-WL-HD
<i>Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.</i>	

2 Laboratory and accreditations

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

Company name:	BlueAsia Technical Services(Shenzhen) Co., Ltd.
Address:	No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
ISED CAB identifier No.:	CN0028
Telephone:	+86-755-28682673
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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

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

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

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

3.3 Result

$$\text{EIRP} = p_t \times g_t = (E \times d)^2 / 30$$

Where:

p_t = transmitter output power in watts,

g_t = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m,

d = measurement distance in meters (m)

$$\text{Spot} = (E \times d)^2 / 30 \times g_t$$

Separation distance = 20cm

For QPSK

$$\text{Ant gain} = 2.29 \text{ dBi} [0.14 \text{ dBd} (1.033)]$$

$$\text{Field strength} = 107.61 \text{ dB}\mu\text{V/m @3m @2474MHz}$$

$$\text{So } P_t = \{ [10^{(107.61/20)} / 10^6 \times 3]^2 / 30 \} \times 1000 \text{ mW} = 17.30 \text{ mW} < 3060 \text{ mW}$$

$$\text{So ERP} = 17.30 \times 1.033 = 17.87 < 3060 \text{ mW}$$

Comply with RF exposure exemption limit.

----END OF REPORT----

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