

TEST REPORT

Product Name : Smoke and Carbon Monoxide Alarm
Model Number : APZ-WN, DUG-2S, L/N-DUA-0G, APX-WN,
DUE-2S, L/N-DUA-0E, APY-WN, DUF-2S,
L/N-DUA-0F
FCC ID : 2A6RONBH

Prepared for : SMARTIE INTERNATIONAL LLC.
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Report Number : ENS2512250176W00602R
Date of sample receipt : December 25, 2025
Date(s) of Tests : December 25, 2025 to January 9, 2026
Date of issue : January 9, 2026

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1. TEST RESULT CERTIFICATION

Applicant : SMARTIE INTERNATIONAL LLC.

Address : DELAWARE 160 Greentree Drive,Suite 101 DOVER DELAWARE 19904 USA

Manufacturer : SMARTIE INTERNATIONAL LLC.

Address : DELAWARE 160 Greentree Drive,Suite 101 DOVER DELAWARE 19904 USA

Factory : X-Sense Electronics Co., Ltd.

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EUT : Smoke and Carbon Monoxide Alarm

Model Name : APZ-WN, DUG-2S, L/N-DUA-0G, APX-WN, DUE-2S, L/N-DUA-0E, APY-WN, DUF-2S, L/N-DUA-0F

Trademark : AEGISLINK

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 2.1093	PASS

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2020) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test : December 25, 2025 to January 9, 2026

Prepared by :

Yu Xiaolan

Yu Xiaolan /Editor

Reviewer :

Xia Lili

Xia Lili/Supervisor

Wang Li

Approve & Authorized Signer :

Wang Li/Manager



Modified History

Version	Report No.	Revision Date	Summary
	ENS2512250176W00602R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	Smoke and Carbon Monoxide Alarm
Model Number:	APZ-WN, DUG-2S, L/N-DUA-0G, APX-WN, DUE-2S, L/N-DUA-0E, APY-WN, DUF-2S, L/N-DUA-0F (Note: These models are the same, except for the model names and appearance; APZ-WN was selected for full test.)
Sample:	1#
Operating Frequency Range(s) :	915.675MHz
Number of Channels:	1 channel
Max Field Strength	83.20 dBuV@3m
Antenna Type:	Spring antenna
Power Supply	DC 3V from Battery
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm ²)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = Power density in mW/cm²

P_{out} =output power to antenna in mW

G = Numeric gain of the antenna relative to isotropic antenna

π =3.1416

R = distance between observation point and center of the radiator in cm

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the nd total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

According to ANSI C63.10-2020

9.5 Equations to calculate EIRP

Calculate the EIRP from the radiated field strength in the far field using Equation (22):

$$EIRP = E + 20 \log(d) - 104.7 \quad (22)$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E is the field strength of the emission at the measurement distance, in dBμV/m

d is the measurement distance, in m

3. Measurement Result

915MHz SRD

FCC MPE

Gain(dBi)	-28.63	Gain(num)	0.0013 70882					
Channel Freq. (MHz)	Max Field Strength (dBuV/m)	peak output power (dBm)	Tune up Power (dBm)	Max tune up power(dBm)	Max tune up power(mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Verdict
915.675	83.2	-11.96	-12±1	-11	0.079433	0.00000002	1	PASS

According to KDB 447498, no stand-alone required for antenna, and no simultaneous SAR measurement is required.

*** End of Report ***