



RF EXPOSURE REPORT

For

Quanzhou Sifang Communication Device Co.,Ltd.

Yuxia Community ,Jinlong Street, No.45 Yuantaiyi Road, Quanzhou, China, 362000

FCC ID: 2A4R6-FT7810

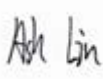
Report Type:	Product Name:
Original Report	GMRS Mobile Radio
Report Number:	2607U39787E-RF-02
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Reviewed By:	Ash Lin 
Approved By:	Miles Chen 
Prepared By:	Bay Area Compliance Laboratories Corp. (Xiamen) Unit 102, No. 902 Meifeng South Road, Binhai West Avenue Science and Technology Innovation Park, Torch High Tech Zone Xiamen, People's Republic of China Tel: +86-592-3200111 www.baclcorp.com.cn

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2607U39787E-RF-02	R1V1	2026-08-01	Initial Release

GENERAL INFORMATION**Product Description for Equipment under Test (EUT)**

Applicant:	Quanzhou Sifang Communication Device Co.,Ltd.
Product Name:	GMRS Mobile Radio
Tested Model:	FT7810
Multiple Model(s):	AR-7810
Trade Name(FT7810):	UXD
Trade Name(AR-7810):	ABBREE
Power Supply:	DC 13.8V from vehicle system or DC source
★Maximum Antenna Gain:	2.15dBi
EUT Received Status:	Good

Note:

- 1. The Maximum Antenna Gain was declared by manufacturer.*
- 2. The difference between tested model and series model are model name and trade name, please refer to eclaration letter for more detail.*
- 3. All measurement and test data in this report was gathered from production sample serial number: 3NU7-1 (Assigned by the BACL (Xiamen). The EUT supplied by the applicant was received on 2026-06-08).*

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on the Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen.

Bay Area Compliance Laboratories Corp. (Xiamen) Lab is accredited to ISO/IEC 17025 by A2LA (Certificate Number: 7134.01) and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN1384.

TEST EQUIPMENT LIST

Test Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date
Broadband Field Meter	narda	NBM-550	E-0696	2024/9/13	2027/9/12
E-Field probe	narda	EF 0391	D-1748	2024/9/13	2027/9/12

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Xiamen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC§15.247 (i), §1.1307(b)(1) & §2.1091 – MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to FCC §1.1307(b)(1) & §2.1091, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Limits for Maximum Permissible Exposure (MPE)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz;

* = Plane-wave equivalent power density.

Calculated Formulary:

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

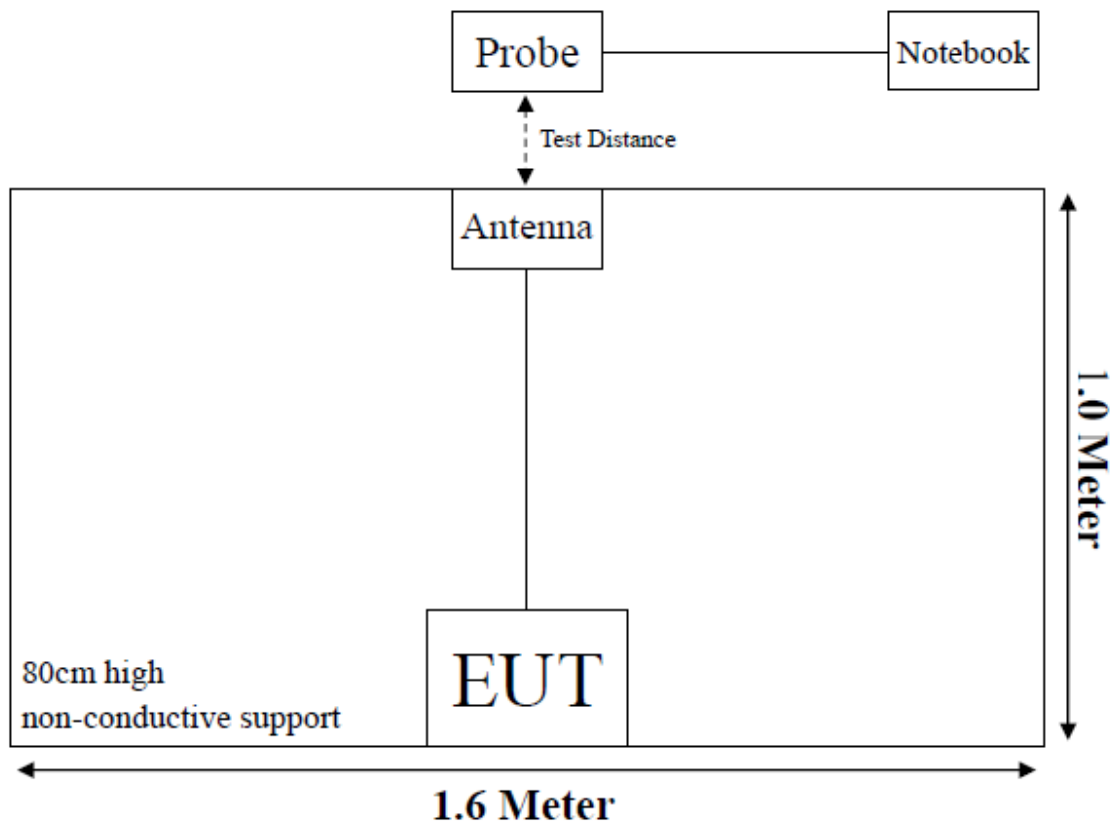
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{\text{limit},i}} \leq 1$$

MPE Test Procedure

1. Place the EUT's antenna was vertical polarization on the table.
2. The EUT was set to transmit at the frequency at maximum RF power.
3. The Distance between the test probe and the investigated EUT's antenna equal to the distance be specified as safety distance in the user manual.
4. Power density measurements were taken at different heights of the probe from the ground (0.8 to 2.8 meters) while rotating versus azimuth (from 0° to 360°) the antenna.
5. Adjusted the distance between the test probe and the tested antenna to the real safe distance, R_{real} , such that the measured highest power density in the "worst case" position was the same or slightly less than the test limit.
6. The measurement results of final measurements conducted at the chosen azimuth and different heights of the probe above the ground.

Block Diagram of Test Setup**Test Data**

Test Mode:	Transmitting	Test Engineer:	Lucas Lin
Test Date:	2026-6-23	Test Result:	Pass

Environment Conditions:					
Temperature: (°C)	22.9	Relative Humidity: (%)	54	ATM Pressure: (kPa)	100.1

Please refer to below table and plots:

For 462.625MHz

Measuring Probe Height (cm)	Power Density(mW/cm ²)
	50cm
80	0.072
100	0.118
150	0.411
160	0.498
170	0.394
180	0.359
190	0.261
200	0.183
250	0.257
280	0.101

Test Result Summary:

Maximum Power Density (mW/cm ²)	0.498
Measured Conducted Output Power (W)	26
Maximum Rated Power Including Tolerance (W)	30
Scaled Maximum Power Density(50% duty Cycle) (mW/cm ²)	0.249
Limit (mW/cm ²)	0.308
Safety Distance (cm)	50
Result	Compliant

Note:

1. The maximum measured conducted output power is 44.15 dBm (26W).
2. Operating duty cycle 50% is declared by manufacturer and showed on the user manual.

Result: The device meet FCC MPE at 50 cm distance.

EUT PHOTOGRAPHS

Please refer to the attachment 2607U39787E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2607U39787E-RF-INP EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2607U39787E-RF-TSP-02 SETUP PHOTOGRAPHS.

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95% confidence interval.
5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).
6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

******* END OF REPORT *******