



FCC RF Exposure Evaluation

FCC ID: 2A3NOT130U

1. Product Information

FCC ID	:	2A3NOT130U				
Product name	:	Tour Guide System				
Test Model	:	T130U				
Ratings	:	Input: DC 5V, 1A				
		DC 3.7V by Rechargeable Li-ion Battery, 2000mAh				
Hardware Version	:	/				
Software Version		/ 小咖啡份				
SRD	:					
Frequency Range	:	902MHz-928MHz				
Channel Number	:	50 channels				
Channel Spacing	:	500kHz				
Modulation Type	:	GFSK				
Antenna Description	:	Internal Antenna, 1.0dBi(Max.)				
Exposure category	:	General population/uncontrolled environment				
EUT Type	:	Production Unit				
Device Type	:	Portable Device				
Date of Test	:	November 20, 2024 ~ December 06, 2024				
Date of Report	ASA	December 09, 2024				

2. Evaluation method and Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-q head or body and 10-q extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.22 The 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 (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc."

[(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] \cdot [\sqrt{f} (GHz)] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where:

- f (GHz) is the RF channel transmit frequency in GHz
- · Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison







• 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm
and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test
separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to
determine SAR test exclusion.

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When one of the following test exclusion conditions is satisfied for all combinations of simultaneous transmission configurations, further equipment approval is not required to incorporate transmitter modules in host devices that operate in the mixed mobile and portable host platform exposure conditions. The grantee is responsible for documenting this according to Class I permissive change requirements. Antennas that qualify for standalone SAR test exclusion must apply the estimated standalone SAR to determine simultaneous transmission test exclusion.

a) The [∑ of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg] + [∑ of MPE ratios] is ≤ 1.0.

b)The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all ≤ 0.04, and the [∑ of MPE ratios] is ≤ 1.0.

3. Refer Evaluation Method

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

FCC KDB publication 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1093: Radiofrequency radiation exposure evaluation: portable devices

4. Radiation Power

Test Procedure

TX frequency range: 902.5MHz

Device category: Portable device (Distance: 5mm)

Max. Field Strength: 78.90dBuV/m @3m

EIRP=E-104.8+20logD=78.90-104.8+20log3=-16.36dBm

Maximum Conducted Output Power: -16.36dBm

Turn-up: -16±1

5. Evaluation Results

	Band/Mode	f (GHz)	Antenna Distance (mm)	RF output power		SAR Test	SAR Test
				dBm	mW	Exclusion Threshold	Exclusion
	GFSK	902.5	5	-15.0	0.0316	0.1900< 3.0	Yes

Remark:

- 1. Output power including tune up tolerance;
- 2. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section
- 4.1 is applied to determine SAR test exclusion.

6. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.







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7. Description of Test Facility

NVLAP Accreditation Code is 600167-0. FCC Designation Number is CN5024. CAB identifier is CN0071. CNAS Registration Number is L4595. Test Firm Registration Number: 254912.

.....THE END OF REPORT.....

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