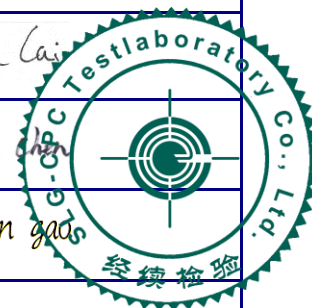


## TEST REPORT

Report Number. .... :	90181-25-72-25-PP003	
Date of issue ..... :	2025.04.27	
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Reviewer (+signature)..... :	Duke	<i>Duke Chen</i>
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Factory's name ..... :	MOKO TECHNOLOGY LIMITED	
Address ..... :	Factory 201, 107 Pinshun Rd Guixiang community, Guanlan Street, Longhua, Shenzhen, China 518110	
Standard(s) ..... :	FCC 1.1310: §1.1307(b)	
Test item description..... :	Smart Tracker	
Trade Mark ..... :	MOKO SMART	
Model/Type reference ..... :	LW001-BGE、 LW001-BGE-B(L76K)、 LW001-BGE-C(AT6558)	
FCC ID ..... :	2AO94-LW001-BGE	
Date of receipt of test item ..... :	2025.02.24	
Date (s) of performance of test:	2025.02.24- 2025.03.17	
Test Report Form No. .... :	FCC CFR Part 1_B1	
Master TRF..... :	Dated 2021-09	
Summary of Test Results ..... :	Pass	



The Summary of Test Results based on a technical opinion belongs to the standard(s).

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## Modified History

Report No.	Revision Date	Summary
90181-25-72-25-PP003	2025.04.27	Original Report

## 1. EUT Specification

<b>EUT</b>	Smart Tracker
<b>Model Number</b>	LW001-BGE、LW001-BGE-B(L76K)、LW001-BGE-C(AT6558)
<b>FCC ID</b>	2AO94- LW001-BGE
<b>Antenna gain (Max)</b>	-0.46dBi (BT); 0.8dBi(915MHz)
<b>Operation Frequency</b>	2402-2480MHz, 915MHz
<b>Input Rating</b>	DC 3.6V
<b>Standard</b>	47 CFR Part 1.1307 47 CFR Part 1.1310 KDB447498D01 General RF Exposure Guidance v06
<b>Modulation</b>	BLE, LoRa

## 2. Test Requirement

### 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)

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:  $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where  $f(\text{GHz})$  is the RF channel transmit frequency in GHz. • Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>. • The result is rounded to one decimal place for comparison. The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  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 is applied to determine SAR test exclusion.

According to KDB447498D01 General RF Exposure Guidance v06

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. Measurement Result

Operation Mode: BLE						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
GFSK - Lowest (2402MHz)	2.11	2±1	3	2.00	0.62	3.0
GFSK - Middle (2440MHz)	2.74	2±1	3	2.00	0.62	
GFSK - Highest (2480MHz)	2.90	2±1	3	2.00	0.63	
Conclusion: the calculated value ≤3.0. SAR is exempted.						

The Maximum power is less than the limit, complies with the exemption requirements, SAR is exempted.

For 915MHz SRD

Ant gain=0.8dBi

Ant numeric gain= 1.20

Field strength = 94.61dBuV/m@3m

EIRP=E-104.7+20logD=94.61-104.7+20log3=-0.55dBm

Maximum Conducted Output Power:-1.75dBm

Tune-up:-1±1

Channel	Antenna Distance (mm)	Maximum tune-up Power		Calculated value	Exclusion threshold
		(dBm)	(mW)		
915MHz	5	0	1.000	0.1913	3.0
Conclusion: the calculated value ≤3.0, SAR is exempted.					

BLE and LoRa can be launched simultaneously. Simultaneous evaluation of compliant RFexposur:

Sum of Maximum Ratios:0.63/3+0.1913/3=0.274<1

Remark: The Max Conducted Peak Output Power data refer to report Report No.: 90181-25-72-25-PP001 , 90181-25-72-25-PP002.

THE END

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