

# TEST REPORT

**Product Name** : mutalk  
**Model Number** : SVP-OD1W  
**FCC ID** : 2A4GC-SVPOD1

Prepared for : Shiftall Inc.  
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## Table of Contents

1. TEST RESULT CERTIFICATION .....	3
2. EUT SPECIFICATION .....	5
3. TEST REQUIREMENT .....	6
4. MEASUREMENT RESULT .....	7



## 1. TEST RESULT CERTIFICATION

Applicant : Shiftall Inc.  
 Address : 4F TokyoDaiwa Bldg., 2-6-10 Nihonbashibakurocho, Chuo, Tokyo, Japan  
 Manufacturer : Shiftall Inc.  
 Address : 4F TokyoDaiwa Bldg., 2-6-10 Nihonbashibakurocho, Chuo, Tokyo, Japan  
 EUT : mutalk  
 Model Name : SVP-OD1W  
 Trademark : mutalk

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.247(i), § 2.1093	PASS

The above equipment was tested by EMTEK(DONGGUAN) 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 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1093.

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

Date of Test : May 16, 2023 to May 24, 2023

Prepared by : Xia Yang

Xia Yang /Editor

Reviewer : Tim Dong

Tim Dong/ Supervisor

Approve & Authorized Signer : Sam Lv



Sam Lv / Manager

## Modified History

Version	Report No.	Revision Date	Summary
	EDG2305100168E00103R	/	Original Report



## 2. EUT Specification

Characteristics	Description
<b>Product:</b>	mutalk
<b>Model Number:</b>	SVP-OD1W
<b>Sample:</b>	1#
<b>Device Type:</b>	Bluetooth V5.1
<b>Data Rate:</b>	1Mbps for GFSK modulation 2Mbps for $\pi/4$ -DQPSK modulation 3Mbps for 8DPSK modulation
<b>Modulation:</b>	BT: GFSK, $\pi/4$ -DQPSK, 8DPSK BLE: GFSK
<b>Operating Frequency Range(s) :</b>	2402-2480MHz
<b>Number of Channels:</b>	BT: 79 channels BLE: 40 Channels
<b>Transmit Power Max:</b>	BT: 8.32 dBm(0.006792 W) BLE: 8.07 dBm(0.006412 W)
<b>Antenna Type:</b>	Chip Antenna
<b>Antenna Gain:</b>	0 dBi
<b>Power supply:</b>	DC 5V from USB, DC 3.7V from battery
<b>Evaluation applied:</b>	<input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> SAR Evaluation

### 3. Test Requirement

## RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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,<sup>24</sup> 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>25</sup>
- 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  $\leq 50$  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 according to 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

## 4. Measurement Result

Antenna gain: 0 dBi  
BT

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	E.I.R.P (dBm)	Tune up Power (dBm)	Max tune up power (dBm)	Calculation Result	1-g SAR
2402	GFSK	8.32	8.32	8±1	9	2.4621613	3
2441	GFSK	7.61	7.61	7±1	8	1.9715776	3
2480	GFSK	8.02	8.02	8±1	9	2.5018187	3
2402	π/4-DQPSK	7.42	7.42	7±1	8	1.9557642	3
2441	π/4-DQPSK	6.84	6.84	6±1	7	1.5660798	3
2480	π/4-DQPSK	7.38	7.38	7±1	8	1.9872652	3
2402	8DPSK	7.54	7.54	7±1	8	1.9557642	3
2441	8DPSK	7.04	7.04	7±1	8	1.9715776	3
2480	8DPSK	7.44	7.44	7±1	8	1.9872652	3

BLE

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	E.I.R.P (dBm)	Tune up Power (dBm)	Max tune up power (dBm)	Calculation Result	1-g SAR
2402	GFSK	8.07	8.07	8±1	9	2.4621613	3
2440	GFSK	7.48	7.48	7±1	8	1.9711738	3
2480	GFSK	7.83	7.83	7±1	8	1.9872652	3

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

\*\*\* End of Report \*\*\*