

**FCC PART 15 SUBPART C TEST REPORT****FCC PART 15.247****Report Reference No.....** : MAX25072611P01-R01RF**FCC ID.....** : 2BMTH-ML35Compiled by  
( position+printed name+signature) : Engineer/ Cindy Zheng*Cindy zheng*Supervised by  
( position+printed name+signature) : Manager/Haley Wen*Haley wen*Approved by  
( position+printed name+signature) : RF Manager/ Vivian Jiang*Vivian Jiang*

Date of issue..... : July 30, 2025

**Testing Laboratory Name.....** : MAXLAB Testing Co.,Ltd.

Address..... : 1/F, Building B, Xinshidai GR Park, Shiyan Street, Bao'an District, Shenzhen, Guangdong, 518052, People's Republic of China

**Applicant's name.....** : Shenzhen Xinxiang Culture Technology Co., Ltd.

Address..... : Room 1602, Building C, Kangjia Guangming Technology Center, No. 288 Xingxin Road, Guangming Street, Guangming District, Shenzhen, Guangdong Province, China

**Test specification.....** :

Standard..... : KDB 447498 D01 General RF Exposure Guidance v06

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**Test item description.....** : Mobapad HUBEN2 MECHANICAL CONTROLLER

Trade Mark..... : MOBAPAD

Manufacturer..... : Dongguan Xiechuang Technology Co., Ltd

Model/Type reference..... : ML35

Listed Models ..... : N/A

Modulation ..... : GFSK, Π/4DQPSK, 8DPSK

Frequency..... : From 2402MHz to 2480MHz

Rating..... : DC 3.7V From Battery and DC 5V From External circuit

Result..... : **PASS**



## RF EXPOSURE EVALUATION METHOD

**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)**

According to KDB 447498 D01 General RF Exposure Guidance v06, 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 Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

## EUT Specification

<b>EUT</b>	Mobapad HUBEN2 MECHANICAL CONTROLLER
<b>Frequency band (Operating)</b>	<input type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.150GHz ~ 5.250GHz <input type="checkbox"/> WLAN: 5.725GHz ~ 5.850GHz <input checked="" type="checkbox"/> Others BT:2402-2480MHz
<b>Device category</b>	<input checked="" type="checkbox"/> Portable (<20cm separation) <input type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others
<b>Exposure classification</b>	<input type="checkbox"/> Occupational/Controlled exposure ( $S = 5\text{mW/cm}^2$ ) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure ( $S=1\text{mW/cm}^2$ )
<b>Antenna diversity</b>	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity
<b>Max. output power</b>	3.480dBm (0.000223W)
<b>Antenna gain (Max)</b>	2.64dBi
<b>Evaluation applied</b>	<input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> SAR Evaluation

**RF EXPOSURE EVALUATION METHOD**
**SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and  $\leq 50$  mm**

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

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:

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

Power and distance are rounded to the nearest mW and mm before calculation

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.



Maximum measured transmitter power.

BR+EDR

Operating Mode	Frequency	Measure d Power	max. power	Antenna Gain	min. test separation distance	Result	Limit
	(MHz)	(dBm)	(mW)	(dBi)	(mm)		
GFSK	2402	1.296	1.35	2.62	5	0.4178	3
	2441	2.170	1.65	2.62	5	0.5150	3
	2480	2.328	1.71	2.62	5	0.5383	3
$\pi/4$ DQPSK	2402	1.951	1.57	2.62	5	0.4858	3
	2441	2.706	1.86	2.62	5	0.5827	3
	2480	3.027	2.01	2.62	5	0.6323	3
8DPSK	2402	2.663	1.85	2.62	5	0.5723	3
	2441	3.292	2.13	2.62	5	0.6668	3
	2480	3.480	2.23	2.62	5	0.7019	3
GFSK	2402	2.412	1.74	2.62	5	0.5402	3
	2440	2.314	1.70	2.62	5	0.5323	3
	2480	2.562	1.80	2.62	5	0.5681	3

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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$$

The test Result is less than 3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

**Conclusion: No SAR is required.**