

A Test Lab Techno Corp.

Changan Lab: No. 140 -1, Changan Street, Bade City, Taoyuan County, Taiwan R.O.C.

Tel: 886-3-271-0188 / Fax: 886-3-271-0190

SAR Test Exclusion Evaluation





Test Report No. : 1508FS13-01

Applicant : OMNISPECIAL TECHNOLOGY CO., LIMITED

Manufacturer : OMNISPECIAL TECHNOLOGY CO., LIMITED

Product Type : BBT TALKIN

Trade Name : Bb TALKIN'

Model Number : BBT-A001

Dates of Received : Jul. 29, 2015

Dates of Test : Aug. 06, 2015

Dates of Issued : Oct. 02, 2015

Test Specification : IEEE Std. 1528-2013

IEEE Std. 1528a-2005

47 CFR § 2.1093

KDB 447498 D01 General RF Exposure Guidance v05r02

KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04

KDB 865664 D02 RF Exposure Reporting v01r01

Location of Test Lab. : Chang-an Lab.

- 1. The test operations have to be performed with cautious behavior, the test results are as attached.
- 2. The test results are under chamber environment of A Test Lab Techno Corp. A Test Lab Techno Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples.
- 3. The measurement report has to be written approval of A Test Lab Techno Corp. It may only be reproduced or published in full. This report shall not be reproduced except in full, without the written approval of A Test Lab Techno Corp.
- 4. This document may be altered or revised by A Test Lab Techno. Corp. personnel only, and shall be noted in the revision section of the document.

Approved By

Tested By

(Sky Chou)

Report Number: 1508FS13-01 Page 1 of 6



Contents

1.	Description of Equipment under Test (EUT)	3
2.	SAR Test Exclusion	4
2.1	Conducted Power	5
2.2	Evaluation Results	6



1. Description of Equipment under Test (EUT)

A 1: (OMNUODEOLAL TEOLINIOLOGY OO LIMITED						
Applicant	OMNISPECIAL TECHNOLOGY CO., LIMITED						
Applicant Address	A1 · 11/F., Front Block, Hang Lok Building, 130 Wing Lok St., Sheung Wan, HONG KONG						
Manufacturer	OMNISPECIAL TECHNOLOGY CO., LIMITED						
Manufacturer Address	A1 , 11/F., Front Block, Hang Lok Building, 130 Wing Lok St., Sheung Wan, HONG KONG						
Product Type	BBT TALKIN						
Trade Name	Bb TALKIN'						
Model Number	BBT-A001						
FCC ID	2AFMY-BBTPRO						
Frequency Range	2402 - 2480 MHz Bluetooth BR/EDR						
Transmit Power	0.00885 W / 9.47 dBm						
(conducted power)							
Antenna Type	Dipole Antenna						
Antenna Max. Gain	3.64 dBi						

The above equipment was tested by A Test Lab Techno Corp. For compliance with the requirements set forth in 47 CFR § 2.1093. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Report Number: 1508FS13-01 Page 3 of 6



2. SAR Test Exclusion

As RF exposure evaluation of portable device, SAR test is not required when the evaluation results . According to KDB 447498 4.3.1, unless excluded by specific FCC test procedures, portable devices shall include SAR data for equipment approval. SAR test necessity will be based on the exclusion result.

The test exclusion refers KDB 447498 as below:

≤50mm:

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

>50mm and <200mm:

- a) [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance 50 mm)·(f(MHz)/150)] mW, at 100 MHz to 1500 MHz
- b) [Power allowed at numeric threshold for 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz

Report Number: 1508FS13-01 Page 4 of 6



2.1 Conducted Power

Band	СН	Frequency (MHz)	Packet Type	RF Conducted Output Power (dBm)			
				Average			
		2402	DH1	9.18			
	0		DH3	9.29			
			DH5	9.34			
Bluetooth BR		2441	DH1	9.23			
	39		DH3	9.29			
(GFSK)			DH5	9.41			
			DH1	9.18			
	78	2480	DH3	9.26			
			DH5	9.47			
		2402	2DH1	8.22			
	0		2DH3	8.34			
			2DH5	8.42			
Bluetooth EDR	39	2441	2DH1	8.25			
			2DH3	8.33			
(π/4-DQPSK)			2DH5	8.47			
	78	2480	2DH1	8.46			
			2DH3	8.56			
			2DH5	8.62			
	0		3DH1	8.39			
		2402	3DH3	8.47			
			3DH5	8.56			
Bluetooth EDR	39		3DH1	8.49			
		2441	3DH3	8.57			
(8DPSK)			3DH5	8.62			
	78	2480	3DH1	8.59			
			3DH3	8.64			
			3DH5	8.70			



2.2 Evaluation Results

The evaluation of SAR test reduction according to KDB447498 SAR test is not required when the results showed "SAR is not required".

Extremity SAR:

≤ 50 mm												
Side	Operate Band	Channel	Power	Frequency	Distance	Power	Result	Dogult	SAR _{1g}	SAR _{10g}	Exclusion Considerations	
			(dBm)	(GHz)	(mm)	(mW)		Limit	Limit	SAR _{1g}	SAR _{10g}	
1	Bluetooth BR/EDR	78	9.5	2.48	5	9	2.8	3	7.5	Not required	Not required	
2	Bluetooth BR/EDR	78	9.5	2.48	5	9	2.8	3	7.5	Not required	Not required	
3	Bluetooth BR/EDR	78	9.5	2.48	5	9	2.8	3	7.5	Not required	Not required	
4	Bluetooth BR/EDR	78	9.5	2.48	5	9	2.8	3	7.5	Not required	Not required	
5	Bluetooth BR/EDR	78	9.5	2.48	5	9	2.8	3	7.5	Not required	Not required	
6	Bluetooth BR/EDR	78	9.5	2.48	5	9	2.8	3	7.5	Not required	Not required	

Note: 1. The test reduction for distance less than 50mm. Use the max power to make sure minimum distance by evaluated for SAR testing.

2. The Body and limbs SAR conform to exclude assessment.

Report Number: 1508FS13-01 Page 6 of 6