

RF EXPOSURE **EVALUATION REPORT**

APPLICANT

TCL Communication Ltd.

PRODUCT NAME

BigPad

MODEL NAME

C15BA

TRADE NAME

N/A

BRAND NAME

TCL\ ALCATEL\alcatel\ ALCATEL onetouch\Xess

FCC ID

2ACCJB068

STANDARD(S)

47CFR 2.1093

KDB 447498 D01 General RF Exposure Guidance v06

ISSUE DATE

2016-10-14

SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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		Change History
Issue	Date	Reason for change
1.0	2016-10-14	First edition
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TEST REPORT DECLARATION

Applicant	TCL Communication Ltd.	
Applicant Address	15/F, TCL Tower, Gaoxin Nan Yi Road, Nanshan District, Shenzhen, Guangdong, P.R.C	
Manufacturer	TCL Communication Ltd.	
Manufacturer Address	15/F, TCL Tower, Gaoxin Nan Yi Road, Nanshan District, Shenzhen, Guangdong, P.R.C	
Product Name	BigPad	
Model Name	C15BA	
Brand Name	TCL\ ALCATEL\alcatel\ ALCATEL onetouch\Xess	
HW Version	Lite_MT8783_MB_V03_6HG REV:C	
SW Version	N/A	
Test Standards	47CFR 2.1093; KDB 447498 D01 General RF Exposure Guidance v06	
Issue Date	2016-10-14	
SAR Evaluation	Not Required	

Tested by	Chen Shong kui
	Chen Shengkui
Reviewed by	Liu Jun
	Liu Jun
Approved by	Zeng Dexin
	Zeng Dexin



1. TECHNICAL INFORMATION

Note: the following data is based on the information by the applicant.

1.1. Identification of Applicant

Company Name:	TCL Communication Ltd.
Address:	15/F, TCL Tower, Gaoxin Nan Yi Road, Nanshan District, Shenzhen,
AL MORE MO	Guangdong, P.R.C

1.2. Identification of Manufacturer

Company Name:	TCL Communication Ltd.
Address:	15/F, TCL Tower, Gaoxin Nan Yi Road, Nanshan District, Shenzhen,
AE OFLA: MOF	Guangdong, P.R.C

1.3. Equipment Under Test (EUT)

Model Name:	C15BA		
Trade Name:	N/A		
Brand Name:	TCL\ ALCATEL\alcatel\ ALCATEL onetouch\Xess		
Hardware Version:	Lite_MT8783_MB_V03_6HG REV:C		
Software Version:	V8-MT878303-XCNR2B0A		
Frequency Bands:	Bluetooth; Bluetooth4.1; 2402-2480 MHz;		
Modulation Mode:	Bluetooth: GFSK/π/4-DQPSK/8-DPSK; Bluetooth4.1: GFSK		
Antenna type:	Fixed Internal Antenna		
Development Stage:	Identical prototype		



1.3.1. Photographs of the EUT

1. EUT front view



2. EUT rear view





1.3.2. Identification of all used EUT

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity	Hardware Version	Software Version
1#	Lite_MT8783_MB_V 03_6HG REV:C	V8-MT878303-XCNR2B0A

1.4. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
M. Teller	47 CFR§2.1093	Radiofrequency Radiation Exposure Evaluation: portable devices
2 🐠	KDB 447498 D01v06	General RF Exposure Guidance



2. DEVICE CATEGORY AND RF EXPOSURE LIMIT

Per user manual, this device is a Pad. Based on 47CFR 2.1093, this device belongs to portable device category with General Population/Uncontrolled exposure.

Portable Devices:

47CFR 2.1093(b)

For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

GENERAL POPULATION / UNCONTROLLED EXPOSURE

47CFR 2.1093(d) (2)

Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.





3. MEASUREMENT OF CONDUCTED PEAK OUTPUT POWER

BT peak output power

Dand Channel		Frequency	Output Power(dBm)		
Band	Channel	(MHz)	GFSK	π/4-DQPSK	8-DPSK
ORL	410 O	2402	3.79	3.73	3.18
BT	39	2441	4.22	3.52	3.62
MOL	78	2480	4.59	3.92	3.99

Band	Channel	Frequency (MHz)	Output Power(dBm)
			GFSK
G M	0	2402	-3.72
BT4.1	19	2441	-3.36
all the	39	2480	-3.45

4. RF EXPOSURE EVALUATION

The device only incorporates a Bluetooth transmitter, so standalone SAR evaluation is required for Bluetooth and simultaneous SAR is not required.

Standalone transmission SAR evaluation

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation Distances \leq 50 mm are determined by:

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

The maximum tune-up limit power is 3.16mW @ 2.48GHz

BT antenna spacing 0mm from body, so use **5mm** as the most conservative minimum test separation distance,

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)}$] =**0.408** \leq 3.0

So Bluetooth SAR evaluation is not required for this device.



ANNEX A GENERAL INFORMATION

1. Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
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2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang
	Road, Block 67, BaoAn District, ShenZhen, GuangDong
	Province, P. R. China

3. Accreditation Certificate

Accredited Testing Laboratory: CNAS No. L3572

(Shenzhen Morlab Communications Technology Co., Ltd.)

***** END OF REPORT *****

