

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Telephone: +86 (0) 21 6191 5666 Fax: +86 (0) 21 6191 5678

ee.shanghai@sgs.com

Report No.: SHEM151200467703

age: 1

1 Cover Page

FCC MPE REPORT

Test Result:	Pass*							
Date of Issue:	March 24, 2016							
Date of Test:	February 21, 2016, March 07, 2016							
Date of Receipt:	December 15, 2015							
	KDB447498 D01 General RF Exposure Guidance v06							
Standards:	FCC Rules 47 CFR §2.1091							
Add Model No.:	SYVRAC							
Model No.(EUT):	STARLY							
Product Name:	LETV BIKE STARLY							
NOTE: The following sa	NOTE: The following sample(s) submitted was/were identified on behalf of the client as							
Equipment Under Tes	Equipment Under Test (EUT):							
FCC ID:	AGZB-GENE-UB1							
Applicant:	Letv Sports Flying Pigeon Technology (Tianjin) Co., Ltd.							
Application No.:	SHEM1512004677CR							

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.



The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms.e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only



Report No.: SHEM151200467703 Page: 2 of 9

Version 2

Revision Record										
Version	Chapter	Date	Modifier	Remark						
00	/	March 24, 2016	/	Original						

Authorized for issue by:		
Engineer	Eddy Zong Print Name	Eddy Zong
	Print Name	
Clerk	Susie Liu	Suire Lin
	Print Name	
Reviewer	Parlam Zhan	Darlam Zhan
	Print Name	



Report No.: SHEM151200467703

Page: 3 of 9

3 Contents

		P	age
1	C	COVER PAGE	1
2	V	YERSION	2
3	C	CONTENTS	3
4	G	GENERAL INFORMATION	4
	4.1	CLIENT INFORMATION	4
	4.2	GENERAL DESCRIPTION OF E.U.T.	4
	4.3	DETAILS OF E.U.T.	4
	4.4	TEST LOCATION	5
	4.5	TEST FACILITY	5
5	T	EST STANDARDS AND LIMITS	6
6	M	IEASUREMENT AND CALCULATION	7
	6.1	MAXIMUM TRANSMIT POWER	7
	6.2	MPE CALCULATION	8
7	E	CUT CONSTRUCTIONAL DETAILS	9



Report No.: SHEM151200467703

Page: 4 of 9

4 General Information

4.1 Client Information

Applicant:	Letv Sports Flying Pigeon Technology (Tianjin) Co., Ltd.
Address of Applicant:	8th Road & Jingba Linking-up Road, Jinghai Economic Development Zone, Tianjin
Manufacturer:	Not supplied by the client.
Address of Manufacturer:	Not supplied by the client.
Factory:	Not supplied by the client.
Address of Factory:	Not supplied by the client.

4.2 General Description of E.U.T.

Product Description:	Mobile product
Battery:	DC 3.8V 1850mAh by Li-on Rechargeable Battery Supply the EUT with fully charged battery during the testing.
Rated input:	DC 5V via adapter

4.3 Details of E.U.T.

	BT:2402MHz~2480MHz
	DTS: 2412MHz-2462MHz
Operation Frequency:	GSM850: TX:824.2MHz-848.8MHz; RX: 869.2MHz-893.8MHz
	GSM1900: TX: 1850.2MHz-1909.8MHz; RX: 1930.2MHz-1989
	WCDMA Band 5: TX:826.4MHz-846.6MHz; RX: 871.4MHz-891.6MHz
Bluetooth Version:	2.1
	BT: FHSS(GFSK, π/4DQPSK, 8DPSK)
Modulation Technique:	DTS: 802.11b: DSSS(CCK, DQPSK, DBPSK)
·	802.11g/n(HT20): OFDM(64QAM, 16QAM, QPSK, BPSK)
	802.11b: 1/2/5.5/11Mbps
Data Rate:	802.11g: 6/9/12/18/24/36/48/54Mbps
	802.11n20: 13/26/39/52/78/104/117/135Mbps
Number of Channel:	BT: 79
Number of Charmer.	DTS: 11
Antenna Type	Integral Antenna
	BT & WiFi:1.0 dBi
Antenna Gain	GSM 850 & WCDMA Band 5: 1.22dBi
	GSM1900: 1.81dBi



Report No.: SHEM151200467703

Page: 5 of 9

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2017-07-14.

• FCC - Registration No.: 402683

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2017-09-16.

Industry Canada (IC) – IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1. Expiry Date: 2017-06-18.

VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868, C-4336, T-2221, G-830 respectively. Date of Expiry: 2017-11-16.



Report No.: SHEM151200467703

Page: 6 of 9

5 Test Standards and Limits

According to §1.1310 Radiofrequency radiation exposure limits:

The limit for general population/uncontrolled exposures

Frequency	Frequency Power density(mW/cm²)				
300MHz~1.5GHz	f/1500	30			
1.5GHz~100GHz	1.0	30			



Report No.: SHEM151200467703

Page: 7 of 9

6 Measurement and Calculation

6.1 Maximum transmit power

Test Mode		Ou	tput Power(dB	m)	Output Power(mW)			
•	est Mode	Lowest	Middle	Highest	Lowest	Middle	Highest	
	GFSK	-0.25	0.60	0.85	0.94	1.15	1.22	
BT	π/4DQPSK	1.70	2.58	2.89	1.48	1.81	1.95	
	8DPSK	2.25	3.10	3.38	1.68	2.04	2.18	
	802.11b	9.70	10.24	10.56	9.33	10.57	11.38	
WiFi	802.11g	14.75	15.75	16.20	29.85	37.58	41.69	
	802.11 n(HT20)	12.12	12.90	12.90	16.29	19.50	19.50	

	Burst-Average Out Put Power(dBm)					D: ::::	Frame-Average Out Put Power					
Band	Durst	-Average C	Division		(dBm)			(mW)				
	Cha	annel	128	190	251	Factors	128	190	251	128	190	251
		1 TXSlot	33.42	33.34	33.31	-9.19	24.23	24.15	24.12	264.85	260.02	258.23
	GPRS/ EGPRS (GMSK)	2 TXSlots	32.51	32.44	32.42	-6.18	26.33	26.26	26.24	429.54	422.67	420.73
		3 TXSlots	30.5	30.43	30.44	-4.42	26.08	26.01	26.02	405.51	399.02	399.94
GSM850		4 TXSlots	29.61	29.48	29.43	-3.17	26.44	26.31	26.26	440.55	427.56	422.67
GSIVIOSO		1 TXSlot	28.5	28.28	27.85	-9.19	19.31	19.09	18.66	85.31	81.10	73.45
	EGPRS	2 TXSlots	27.43	27.13	26.62	-6.18	21.25	20.95	20.44	133.35	124.45	110.66
		3 TXSlots	25.32	25.04	24.42	-4.42	20.90	20.62	20.00	123.03	115.35	100.00
		4 TXSlots	24.44	24.14	23.63	-3.17	21.27	20.97	20.46	133.97	125.03	111.17

Band	Burst-Average Out Put Power(dBm)					Division	Frame-Average Out Put Power					
								(dBm)			(mW)	
	Cha	annel	512	661	810	Factors	512	661	810	512	661	810
		1 TXSlot	30.46	30.79	30.52	-9.19	21.27	21.60	21.33	133.97	144.54	135.83
	(GMSK)	2 TXSlots	29.58	29.89	29.64	-6.18	23.4	23.71	23.46	218.78	234.96	221.82
		3 TXSlots	27.81	28.15	27.87	-4.42	23.39	23.73	23.45	218.27	236.05	221.31
GSM190		4 TXSlots	27.01	27.46	27.16	-3.17	23.84	24.29	23.99	242.10	268.53	250.61
0	(8PSK)	1 TXSlot	27.57	28.01	28.28	-9.19	18.38	18.82	19.09	68.87	76.21	81.10
		2 TXSlots	26.6	27.04	27.31	-6.18	20.42	20.86	21.13	110.15	121.90	129.72
		3 TXSlots	24.58	25.06	25.34	-4.42	20.16	20.64	20.92	103.75	115.88	123.59
		4 TXSlots	23.57	24.03	24.33	-3.17	20.4	20.86	21.16	109.65	121.90	130.62

	Out	Output Power(mW)					
Cha	nnel	4132	4182	4233	4132	4182	4233
WCDMA	HSDPA	23.21	23.09	23.03	209.41	203.70	200.91
Band 5	HSUPA	22.83	22.43	22.41	191.87	174.98	174.18

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to thesample(s) tested and such sample(s) are retained for 90 days only



Report No.: SHEM151200467703

Page: 8 of 9

6.2 MPE Calculation

According to the formula S= $\frac{PG}{4R^2\pi}$, we can calculate S which is MPE.

Note:

dBm

- 1) P (Watts) = Power Input to antenna = 10^{-10} / 1000
- 2) G (Antenna gain in numeric) = 10[^] (Antenna gain in dBi /10)
- 3) R = distance to the center of radiation of antenna (in meter) = 20cm
- 4) MPE limit = 1mW/cm²

For BT:

The Max Conducted Peak Output Power is 2.18mW in Highest channel of 8DPSK;

The best case gain of the antenna is 1dBi. 1dB logarithmic terms convert to numeric result is nearly 1.259

So, S=
$$\frac{PG}{4R^2\pi}$$
 = $\frac{2.18 \times 1.259}{4 \times 400 \times 3.14}$ = 0.0005 mW/cm²<1.0

For DTS:

The Max Conducted Peak Output Power is 41.69mW in Highest channel of 802.11g;

The best case gain of the antenna is 1dBi. 1dB logarithmic terms convert to numeric result is nearly 1.259

So, S=
$$\frac{PG}{4R^2\pi}$$
 = $\frac{41.69 \times 1.259}{4 \times 400 \times 3.14}$ = 0.0104 mW/cm²<1.0

For 850MHz Band:

The Max Conducted Peak Output Power is 440.55 mW in Middle channel of GSM 850;

The best case gain of the antenna is 1.22dBi. 1dB logarithmic terms convert to numeric result is nearly 1.324

So, S=
$$\frac{PG}{4R^2\pi}$$
 = $\frac{440.55 \times 1.324}{4 \times 400 \times 3.14}$ = 0.12 mW/cm²<0.57

For 1900MHz Band:

The Max Conducted Peak Output Power is 250.61 mW in Lowest channel of GSM1900;

The best case gain of the antenna is 1.81dBi. 1dB logarithmic terms convert to numeric result is nearly 1.517.

So, S=
$$\frac{PG}{4R^2\pi}$$
 = $\frac{250.61 \times 1.517}{4 \times 400 \times 3.14}$ = 0.08 mW/cm²<1.0

So the device is exclusion from SAR test.



Report No.: SHEM151200467703

Page: 9 of 9

7 EUT Constructional Details

Refer to the < STARLY _External Photos > & < STARLY _Internal Photos>.

-- End of the Report--