RF Exposure Evaluation Report

Report No. : FA531804-01

APPLICANT: FIBOCOM WIRELESS INC.

EQUIPMENT: LTE Module

BRAND NAME: Fibocom

MODEL NAME : L811-EA

FCC ID : ZMOL811

STANDARD : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091, and pass the limit. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

Reviewed by: Eric Huang / Deputy Manager

Cole huan

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL (SHENZHEN) INC.

1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China

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Revision History

		Nevision mistory	
REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA531804-01	Rev. 01	Initial issue of report	Oct. 09, 2015

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1. Administration Data

1.1. Testing Laboratory

Testing Laboratory								
Test Site SPORTON International (SHENZHEN) Inc.								
Test Site Location	1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: 86-755-8637-9589 FAX: 86-755-8637-9595							

	Applicant
Company Name	FIBOCOM WIRELESS INC.
Address	5/F, Tower A, Technology Building II,1057# Nanhai Blvd, Shenzhen, P. R. China

Manufacturer Manufacturer									
Company Name	FIBOCOM WIRELESS INC.								
Address	5/F, Tower A, Technology Building II, 1057# Nanhai Blvd, Shenzhen, P. R. China								

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2. Description of Equipment Under Test (EUT)

	Product Feature & Specification
EUT Type	LTE Module
Brand Name	Fibocom
Model Name	L811-EA
FCC ID	ZMOL811
IMEI Code	867890020001950
Wireless Technology and Frequency Range	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz
Mode	GPRS/EGPRS RMC12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+(16QAM uplink is not supported) LTE
Antenna Type	Fixed External Antenna
Antenna Gain	3dBi
HW Version	V1.0.1
SW Version	L811_V3E.0C.01.00
EUT Stage	Identical Prototype
Remark:	

Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- The device supports GPRS/EGPRS Class 33. The device has no voice function.

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3. Conducted RF Output Power (Unit: dBm)

<GSM Conducted Power>

Band GSM850	Burst Av	erage Pow	er (dBm)	Tune-up	Frame-A	verage Pov	Tune-up	
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GPRS (GMSK, 1 Tx slot)	32.58	32.62	32.70	33.00	23.58	23.62	23.70	24.00
GPRS (GMSK, 2 Tx slots)	32.65	32.70	<mark>32.79</mark>	33.00	26.65	26.70	26.79	27.00
GPRS (GMSK, 3 Tx slots)	31.98	32.05	32.16	32.50	27.72	27.79	<mark>27.90</mark>	28.24
GPRS (GMSK, 4 Tx slots)	30.53	30.64	30.71	31.00	27.53	27.64	27.71	28.00
EDGE (8PSK, 1 Tx slot)	27.27	27.25	27.22	27.50	18.27	18.25	18.22	18.50
EDGE (8PSK, 2 Tx slots)	27.23	27.25	27.22	27.50	21.23	21.25	21.22	21.50
EDGE (8PSK, 3 Tx slots)	26.44	26.47	26.44	26.50	22.18	22.21	22.18	22.24
EDGE (8PSK, 4 Tx slots)	25.34	25.36	25.36	25.50	22.34	22.36	22.36	22.50
Band GSM1900	Burst Av	erage Pow	er (dBm)	Tune-up	Frame-A	verage Pov	ver (dBm)	Tune-up
TX Channel	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GPRS (GMSK, 1 Tx slot)	30.22	30.25	30.23	30.50	21.22	21.25	21.23	21.50
GPRS (GMSK, 2 Tx slots)	30.36	<mark>30.38</mark>	30.35	30.50	24.36	24.38	24.35	24.50
GPRS (GMSK, 3 Tx slots)	29.50	29.43	29.41	30.00	<mark>25.24</mark>	25.17	25.15	25.74
GPRS (GMSK, 4 Tx slots)	28.20	28.18	28.19	28.50	25.20	25.18	25.19	25.50
EDGE (8PSK, 1 Tx slot)	26.53	26.56	26.65	27.00	17.53	17.56	17.65	18.00
EDGE (8PSK, 2 Tx slots)	26.54	26.57	26.65	27.00	20.54	20.57	20.65	21.00
EDGE (8PSK, 3 Tx slots)	25.75	25.78	25.86	26.00	21.49	21.52	21.60	21.74
EDGE (8PSK, 4 Tx slots)	24.52	24.55	24.67	25.00	21.52	21.55	21.67	22.00

Remark: The frame-averaged power is linearly scaled the maximum burst averaged power over 8 time slots.

The calculated method are shown as below:

Frame-averaged power = Maximum burst averaged power (1 Tx Slot) - 9 dB
Frame-averaged power = Maximum burst averaged power (2 Tx Slots) - 6 dB
Frame-averaged power = Maximum burst averaged power (3 Tx Slots) - 4.26 dB
Frame-averaged power = Maximum burst averaged power (4 Tx Slots) - 3 dB

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<WCDMA Conducted Power>

	Band WCDMA V			WCDMA II					WCDMA IV				
TX Channel		4132	4182	4233	Tune-up	9262	9400	9538	Tune-up	1312	1413	1513	Tune-up
R	x Channel	4357	4407	4458	Limit (dBm)	9662	9800	9938	Limit (dBm)	1537	1638	1738	Limit (dBm)
Fred	quency (MHz)	826.4	836.4	846.6	(*)	1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	23.21	23.34	23.36	23.50	<mark>23.54</mark>	23.48	23.31	24.00	23.54	23.63	23.61	24.00
3GPP Rel 6	HSDPA Subtest-1	21.02	21.11	21.20	21.50	21.13	21.12	21.09	21.50	21.11	21.21	21.19	21.50
3GPP Rel 6	HSDPA Subtest-2	21.02	21.11	21.20	21.50	21.12	21.12	21.08	21.50	21.13	21.23	21.18	21.50
3GPP Rel 6	HSDPA Subtest-3	21.02	21.11	21.18	21.50	21.12	21.12	21.09	21.50	21.12	21.23	21.18	21.50
3GPP Rel 6	HSDPA Subtest-4	21.03	21.11	21.16	21.50	21.13	21.11	21.09	21.50	21.11	21.23	21.18	21.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.58	21.65	21.63	22.00	21.72	21.66	21.64	22.00	21.75	21.81	21.78	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.51	21.61	21.66	22.00	21.67	21.56	21.57	22.00	21.63	21.67	21.79	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.49	21.59	21.62	22.00	21.61	21.58	21.61	22.00	21.59	21.69	21.75	22.00
3GPP Rel 8	DC-HSDPA Subtest-4	21.48	21.57	21.60	22.00	21.62	21.59	21.56	22.00	21.61	21.65	21.76	22.00
3GPP Rel 6	HSUPA Subtest-1	22.43	22.65	22.69	23.00	22.82	22.72	22.66	23.00	22.78	22.96	22.90	23.00
3GPP Rel 6	HSUPA Subtest-2	20.62	20.81	20.86	21.00	21.00	20.94	20.83	21.50	21.00	21.12	21.10	21.50
3GPP Rel 6	HSUPA Subtest-3	21.77	21.88	21.91	22.00	21.99	21.98	21.84	22.00	22.00	22.15	22.11	22.50
3GPP Rel 6	HSUPA Subtest-4	20.95	21.07	21.09	21.50	21.17	21.13	21.08	21.50	21.19	21.38	21.31	21.50
3GPP Rel 6	HSUPA Subtest-5	23.00	23.00	23.10	23.50	23.20	23.20	23.10	23.50	23.20	23.40	23.30	23.50

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<LTE Conducted Power>

<LTE Band 17>

	Channel			23780	23790	23800	Tune-up	MPR
	Frequency (MHz)			709	710	711	limit (dBm)	(dB)
10	QPSK	1	0	23.16	22.86	23.01		
10	QPSK	1	24	23.23	22.93	22.99	23.50	0
10	QPSK	1	49	22.91	22.92	22.80		
10	QPSK	25	0	22.10	22.16	22.13		
10	QPSK	25	12	22.20	22.10	22.02	00.50	0.4
10	QPSK	25	24	22.07	22.03	21.99	22.50	0-1
10	QPSK	50	0	22.17	22.15	22.04		
10	16QAM	1	0	22.46	22.35	22.25		
10	16QAM	1	24	22.58	22.57	22.35	23.00	0-1
10	16QAM	1	49	22.37	22.30	22.06		
10	16QAM	25	0	21.16	21.23	21.26		
10	16QAM	25	12	21.14	21.32	21.22	24.50	0-2
10	16QAM	25	24	21.16	21.14	21.16	21.50	
10	16QAM	50	0	21.06	21.23	21.17		
	Channel			23755	23790	23825	Tune-up	MPR
	Frequency (MHz)			706.5	710	713.5	limit (dBm)	(dB)
5	QPSK	1	0	23.07	22.94	23.06		
5	QPSK	1	12	23.07	23.00	23.05	23.50	0
5	QPSK	1	24	22.99	22.85	22.92		
5	QPSK	12	0	22.27	22.18	22.03		
5	QPSK	12	6	22.25	22.11	22.01	22.50	0-1
5	QPSK	12	11	22.22	22.08	22.10	22.30	0-1
5	QPSK	25	0	22.16	22.15	22.00		
5	16QAM	1	0	22.33	22.30	22.60		
5	16QAM	1	12	22.36	22.32	22.56	23.00	0-1
5	16QAM	1	24	22.26	22.63	22.48		
5	16QAM	12	0	21.28	21.18	21.08		
5	16QAM	12	6	21.26	21.19	21.06	21.50	0-2
5	16QAM	12	11	21.23	21.24	21.08		0-2
5	16QAM	25	0	21.31	21.19	21.12		

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<LTE Band 13>

	Channel				23230		Tune-up	MPR
	Frequency (MHz)				782		limit (dBm)	(dB)
10	QPSK	1	0		22.75		(a.z.iii)	
10	QPSK	1	24		22.31	23.00	0	
10	QPSK	1	49		22.26			
10	QPSK	25	0		21.69			
10	QPSK	25	12		21.66			
10	QPSK	25	24		21.67		22.00	0-1
10	QPSK	50	0		21.71			
10	16QAM	1	0		21.57			
10	16QAM	1	24		21.79		22.50	0-1
10	16QAM	1	49		21.30			
10	16QAM	25	0		20.83			
10	16QAM	25	12		20.76		04.50	0.0
10	16QAM	25	24		20.81		21.50	0-2
10	16QAM	50	0		20.85			
	Channel			23205	23230	23255	Tune-up limit	MPR
	Frequency (MHz)			779.5	782	784.5	(dBm)	(dB)
5	QPSK	1	0	22.54	22.57	22.52		
5	QPSK	1	12	22.68	22.61	22.52	23.00	0
5	QPSK	1	24	22.61	22.54	22.49		
5	QPSK	12	0	21.66	21.68	21.70		
5	QPSK	12	6	21.63	21.72	21.76	22.00	0-1
5	QPSK	12	11	21.66	21.71	21.72	22.00	0-1
5	QPSK	25	0	21.65	21.64	21.70		
5	16QAM	1	0	22.08	22.11	21.92		
5	16QAM	1	12	22.22	22.37	21.90	22.50	0-1
5	16QAM	1	24	22.21	22.08	21.75		
5	16QAM	12	0	20.80	20.85	20.91		
5	16QAM	12	6	20.78	20.82	21.00	21.50	0-2
5	16QAM	12	11	20.80	20.80	20.83	21.00	0-2
5	16QAM	25	0	20.84	20.79	20.83		

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<LTE Band 5>

	Channel			20450	20525	20600	Tune-up	MPR
	Frequency (MHz)			829	836.5	844	limit (dBm)	(dB)
10	QPSK	1	0	22.84	<mark>22.87</mark>	22.54		
10	QPSK	1	24	22.82	22.74	22.45	23.00	0
10	QPSK	1	49	22.66	22.57	22.42		
10	QPSK	25	0	21.82	21.72	21.66		
10	QPSK	25	12	21.77	21.71	21.56	22.00	0.4
10	QPSK	25	24	21.69	21.59	21.61		0-1
10	QPSK	50	0	21.57	21.61	21.61		
10	16QAM	1	0	22.22	22.14	21.97		
10	16QAM	1	24	22.20	21.99	21.84	22.50	0-1
10	16QAM	1	49	22.14	21.94	21.84		
10	16QAM	25	0	20.84	20.72	20.67	21.50	
10	16QAM	25	12	20.96	20.72	20.57		0-2
10	16QAM	25	24	20.70	20.68	20.65		
10	16QAM	50	0	21.02	20.78	20.66		
	Channel			20425	20525	20625	Tune-up	MPR
	Frequency (MHz)			826.5	836.5	846.5	limit (dBm)	(dB)
5	QPSK	1	0	22.74	22.64	22.48		
5	QPSK	1	12	22.73	22.70	22.54	23.00	0
5	QPSK	1	24	22.67	22.71	22.41		
5	QPSK	12	0	21.77	21.57	21.62		
5	QPSK	12	6	21.78	21.58	21.44	22.00	0-1
5	QPSK	12	11	21.77	21.61	21.60	22.00	0-1
5	QPSK	25	0	21.72	21.61	21.72		
5	16QAM	1	0	22.18	22.01	21.77		
5	16QAM	1	12	22.33	22.09	21.74	22.50	0-1
5	16QAM	1	24	22.23	22.00	21.65		
5	16QAM	12	0	20.78	20.82	20.65	_	
5	16QAM	12	6	20.64	20.63	20.70	21.50	0.0
5	16QAM	12	11	20.91	20.81	20.63		0-2
5	16QAM	25	0	20.84	20.72	20.71		

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	Channel			20415	20525	20635	Tune-up	MPR
	Frequency (MHz)			825.5	836.5	847.5	limit (dBm)	(dB)
3	QPSK	1	0	22.67	22.57	22.51		
3	QPSK	1	7	22.69	22.55	22.51	23.00	0
3	QPSK	1	14	22.62	22.55	22.53		
3	QPSK	8	0	21.71	21.58	21.57		
3	QPSK	8	4	21.69	21.60	21.52	22.00	0.4
3	QPSK	8	7	21.68	21.57	21.50	22.00	0-1
3	QPSK	15	0	21.70	21.57	21.55		
3	16QAM	1	0	21.96	21.89	21.67		
3	16QAM	1	7	22.01	21.83	21.70	22.50	0-1
3	16QAM	1	14	21.95	21.74	21.64		
3	16QAM	8	0	20.86	20.69	20.67		
3	16QAM	8	4	20.76	20.67	20.58	24.50	0-2
3	16QAM	8	7	20.81	20.68	20.65	21.50	0-2
3	16QAM	15	0	20.80	20.72	20.72		
	Channel			20407	20525	20643	Tune-up	MPR
	Frequency (MHz)			824.7	836.5	848.3	limit (dBm)	(dB)
1.4	QPSK	1	0	22.74	22.60	22.59		
1.4	QPSK	1	2	22.70	22.54	22.58		
1.4	QPSK	1	5	22.70	22.55	22.55	22.00	0
1.4	QPSK	3	0	22.78	22.66	22.57	23.00	U
1.4	QPSK	3	1	22.78	22.64	22.59		
1.4	QPSK	3	2	22.77	22.64	22.58		
1.4	QPSK	6	0	21.72	21.60	21.58	22.00	0-1
1.4	16QAM	1	0	22.03	21.90	21.84		
1.4	16QAM	1	2	22.04	21.87	21.82		
1.4	16QAM	1	5	22.05	21.81	21.87	22.50	0-1
1.4	16QAM	3	0	21.83	21.66	21.61		0-1
1.4	16QAM	3	1	21.86	21.67	21.61		
1.4	16QAM	3	2	21.80	21.66	21.61		
1.4	16QAM	6	0	20.85	20.67	20.64	21.50	0-2

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<LTE Band 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit	MPR
	Cha	nnel		20050	20175	20300	(dBm)	(dB)
	Frequen	cy (MHz)		1720	1732.5	1745		
20	QPSK	1	0	<mark>23.35</mark>	23.09	23.22		
20	QPSK	1	49	22.76	22.72	22.88	23.50	0
20	QPSK	1	99	22.76	22.46	22.64		
20	QPSK	50	0	22.17	22.02	22.14		
20	QPSK	50	24	21.84	21.82	21.89	00.50	0.4
20	QPSK	50	49	21.78	21.82	21.85	22.50	0-1
20	QPSK	100	0	22.04	22.02	22.02		
20	16QAM	1	0	22.51	22.42	22.52		
20	16QAM	1	49	21.95	22.01	21.99	23.00	0-1
20	16QAM	1	99	21.81	21.75	21.85		
20	16QAM	50	0	21.19	21.07	21.09		
20	16QAM	50	24	20.83	20.85	20.95	04.50	0.0
20	16QAM	50	49	20.83	20.70	20.83	21.50	0-2
20	16QAM	100	0	20.91	20.83	21.03		
	Cha	innel		20025	20175	20325	Tune-up	MPR
	Frequen	cy (MHz)		1717.5	1732.5	1747.5	limit (dBm)	(dB)
15	QPSK	1	0	23.32	23.32	23.18		
15	QPSK	1	37	22.71	22.77	23.05	23.50	0
15	QPSK	1	74	22.81	22.81	22.93		
15	QPSK	36	0	22.13	22.09	22.20		
15	QPSK	36	18	21.91	21.90	22.01	20.50	0.4
15	QPSK	36	37	21.83	21.97	21.93	22.50	0-1
15	QPSK	75	0	22.01	22.08	22.14		
15	16QAM	1	0	22.63	22.79	22.68		
15	16QAM	1	37	22.05	22.33	22.23	23.00	0-1
15	16QAM	1	74	21.99	22.35	22.15		
15	16QAM	36	0	21.19	21.06	21.12		
15	16QAM	36	18	20.88	21.07	21.02	04.50	0.0
15	16QAM	36	37	21.06	20.87	20.90	21.50	0-2
15	16QAM	75	0	21.02	20.98	20.96		

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	Cha	nnel		20000	20175	20350	Tune-up limit	MPR		
	Frequen	cy (MHz)		1715	1732.5	1750	(dBm)	(dB)		
10	QPSK	1	0	23.10	23.21	23.21				
10	QPSK	1	24	22.81	22.85	22.92	23.50	0		
10	QPSK	1	49	22.73	22.86	22.93				
10	QPSK	25	0	22.02	22.04	22.05				
10	QPSK	25	12	21.86	21.88	21.94	22.50	0.4		
10	QPSK	25	24	21.84	21.91	21.93	22.50	0-1		
10	QPSK	50	0	21.87	21.93	22.03				
10	16QAM	1	0	22.32	22.44	22.18				
10	16QAM	1	24	22.03	22.10	22.10	23.00	0-1		
10	16QAM	1	49	21.98	22.11	21.87				
10	16QAM	25	0	20.90	21.06	21.06				
10	16QAM	25	12	20.80	20.93	20.96	04.50	0.0		
10	16QAM	25	24	20.72	20.91	20.92	21.50	0-2		
10	16QAM	50	0	20.93	20.89	21.06				
	Cha	nnel		19975	20175	20375	Tune-up	MPR		
	Frequen	cy (MHz)		1712.5	1732.5	1752.5	limit (dBm)	(dB)		
5	QPSK	1	0	23.04	23.07	23.02				
5	QPSK	1	12	22.97	23.06	23.06	23.50	0		
5	QPSK	1	24	22.93	22.94	23.00				
5	QPSK	12	0	21.93	21.91	22.00				
5	QPSK	12	6	21.90	21.80	21.95	00.50	0.4		
5	QPSK	12	11	21.85	21.80	21.87	22.50	0-1		
5	QPSK	25	0	21.95	21.90	21.92				
5	16QAM	1	0	22.11	22.45	22.59				
5	16QAM	1	12	22.02	22.32	22.45	23.00	0-1		
5	16QAM	1	24	21.86	22.31	22.41				
5	16QAM	12	0	21.02	21.11	20.96				
5	16QAM	12	6	20.92	20.97	20.94				
5	16QAM	12	11	20.94	20.95	20.91	21.50	0-2		
5	16QAM	25	0	20.89	20.83	21.01				

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	Cha	nnel		19965	20175	20385	Tune-up limit	MPR		
	Frequen	cy (MHz)		1711.5	1732.5	1753.5	(dBm)	(dB)		
3	QPSK	1	0	22.81	22.78	22.71				
3	QPSK	1	7	22.70	22.77	22.69	23.50	0		
3	QPSK	1	14	22.62	22.71	22.65				
3	QPSK	8	0	21.74	21.75	21.73				
3	QPSK	8	4	21.72	21.71	21.72	22.50	0.4		
3	QPSK	8	7	21.68	21.70	21.70	22.50	0-1		
3	QPSK	15	0	21.71	21.70	21.72				
3	16QAM	1	0	22.02	22.05	22.07				
3	16QAM	1	7	21.99	22.05	22.06	23.00	0-1		
3	16QAM	1	14	21.91	21.95	21.92				
3	16QAM	8	0	20.78	20.76	20.74				
3	16QAM	8	4	20.73	20.71	20.69	04.50	0.0		
3	16QAM	8	7	20.72	20.78	20.72	21.50	0-2		
3	16QAM	15	0	20.79	20.74	20.80				
	Cha	nnel		19957	20175	20393	Tune-up	MPR		
	Frequen	cy (MHz)		1710.7	1732.5	1754.3	limit (dBm)	(dB)		
1.4	QPSK	1	0	22.80	22.75	22.71				
1.4	QPSK	1	2	22.76	22.74	22.69				
1.4	QPSK	1	5	22.77	22.76	22.72	22.50	0		
1.4	QPSK	3	0	22.86	22.80	22.81	23.50	0		
1.4	QPSK	3	1	22.85	22.75	22.79				
1.4	QPSK	3	2	22.83	22.73	22.73				
1.4	QPSK	6	0	21.71	21.71	21.72	22.50	0-1		
1.4	16QAM	1	0	22.04	22.02	22.00				
1.4	16QAM	1	2	22.06	22.01	22.00				
1.4	16QAM	1	5	22.06	21.99	22.00	22.00	0.4		
1.4	16QAM	3	0	21.87	21.83	21.82	23.00	0-1		
1.4	16QAM	3	1	21.85	21.86	21.78				
1.4	16QAM	3	2	21.86	21.79	21.78				
1.4	16QAM	6	0	20.84	20.74	20.71	21.50	0-2		

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<LTE Band 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit	MPR
	Cha	nnel		18700	18900	19100	(dBm)	(dB)
	Frequen	cy (MHz)		1860	1880	1900		
20	QPSK	1	0	<mark>22.93</mark>	22.29	22.76		
20	QPSK	1	49	22.28	22.43	22.28	23.00	0
20	QPSK	1	99	22.36	21.85	22.08		
20	QPSK	50	0	21.73	21.61	21.68		
20	QPSK	50	24	21.51	21.59	21.47	22.00	0.4
20	QPSK	50	49	21.61	21.26	21.44	22.00	0-1
20	QPSK	100	0	21.75	21.41	21.65		
20	16QAM	1	0	22.58	21.94	22.38		
20	16QAM	1	49	21.93	22.06	21.89	23.00	0-1
20	16QAM	1	99	21.98	21.28	21.55		
20	16QAM	50	0	20.94	20.75	20.85		
20	16QAM	50	24	20.64	20.63	20.57	04.00	0.0
20	16QAM	50	49	20.67	20.44	20.42	21.00	0-2
20	16QAM	100	0	20.72	20.46	20.55		
	Cha	innel		18675	18900	19125	Tune-up	MPR
	Frequen	cy (MHz)		1857.5	1880	1902.5	limit (dBm)	(dB)
15	QPSK	1	0	22.81	22.83	22.77		
15	QPSK	1	37	22.47	22.47	22.20	23.00	0
15	QPSK	1	74	22.38	22.41	22.14		
15	QPSK	36	0	21.71	21.93	21.73		
15	QPSK	36	18	21.55	21.73	21.54	22.00	0-1
15	QPSK	36	37	21.55	21.65	21.40	22.00	0-1
15	QPSK	75	0	21.70	21.74	21.49		
15	16QAM	1	0	22.25	22.26	22.13		
15	16QAM	1	37	21.80	21.77	21.69	23.00	0-1
15	16QAM	1	74	22.05	21.82	21.51		
15	16QAM	36	0	20.89	20.91	20.78		
15	16QAM	36	18	20.65	20.73	20.55	24.00	0.2
15	16QAM	36	37	20.64	20.71	20.50	21.00	0-2
15	16QAM	75	0	20.67	20.83	20.51		

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		innel		18650	18900	19150	Tune-up limit	MPR	
	Frequen	cy (MHz)		1855	1880	1905	(dBm)	(dB)	
10	QPSK	1	0	22.58	22.87	22.71	_		
10	QPSK	1	24	22.40	22.57	22.35	23.00	0	
10	QPSK	1	49	22.36	22.53	22.22			
10	QPSK	25	0	21.60	21.79	21.59			
10	QPSK	25	12	21.50	21.69	21.35	22.00	0-1	
10	QPSK	25	24	21.47	21.68	21.38	22.00	0-1	
10	QPSK	50	0	21.57	21.62	21.38			
10	16QAM	1	0	21.83	22.32	22.17			
10	16QAM	1	24	21.70	22.07	21.84	23.00	0-1	
10	16QAM	1	49	21.54	21.75	21.71			
10	16QAM	25	0	20.71	20.73	20.58			
10	16QAM	25	12	20.61	20.65	20.42	21.00	0-2	
10	16QAM	25	24	20.71	20.64	20.40	21.00	0-2	
10	16QAM	50	0	20.55	20.76	20.56			
	Channel			18625	18900	19175	Tune-up	MPR	
	Frequen	cy (MHz)		1852.5	1880	1907.5	limit (dBm)	(dB)	
5	QPSK	1	0	22.27	22.48	22.27			
5	QPSK	1	12	22.27	22.44	22.22	23.00	0	
5	QPSK	1	24	22.27	22.40	22.11			
5	QPSK	12	0	21.56	21.72	21.46			
5	QPSK	12	6	21.38	21.62	21.38	22.00	0-1	
5	QPSK	12	11	21.47	21.62	21.35	22.00	0-1	
5	QPSK	25	0	21.40	21.61	21.35			
5	16QAM	1	0	21.75	21.96	21.68			
5	16QAM	1	12	21.66	21.82	21.60	23.00	0-1	
5	16QAM	1	24	21.59	21.86	21.46			
5	16QAM	12	0	20.56	20.79	20.57			
5	16QAM	12	6	20.52	20.65	20.38	04.00	0.5	
5	16QAM	12	11	20.46	20.79	20.48	21.00	0-2	
5	16QAM	25	0	20.47	20.81	20.51			

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	Cha	innel		18615	18900	19185	Tune-up limit	MPR		
	Frequen	cy (MHz)		1851.5	1880	1908.5	(dBm)	(dB)		
3	QPSK	1	0	22.21	22.49	22.33				
3	QPSK	1	7	22.20	22.49	22.26	23.00	0		
3	QPSK	1	14	22.15	22.44	22.18				
3	QPSK	8	0	21.35	21.63	21.37				
3	QPSK	8	4	21.34	21.60	21.35	22.00	0.4		
3	QPSK	8	7	21.36	21.57	21.31	22.00	0-1		
3	QPSK	15	0	21.38	21.61	21.36				
3	16QAM	1	0	21.46	21.92	21.67				
3	16QAM	1	7	21.47	21.83	21.61	23.00	0-1		
3	16QAM	1	14	21.46	21.74	21.55				
3	16QAM	8	0	20.37	20.70	20.48				
3	16QAM	8	4	20.42	20.66	20.44	24.00	0.0		
3	16QAM	8	7	20.41	20.66	20.45	21.00	0-2		
3	16QAM	15	0	20.45	20.71	20.50				
	Cha	innel		18607	18900	19193	Tune-up	MPR		
	Frequen	cy (MHz)		1850.7	1880	1909.3	limit (dBm)	(dB)		
1.4	QPSK	1	0	22.24	22.42	22.25				
1.4	QPSK	1	2	22.26	22.41	22.21				
1.4	QPSK	1	5	22.26	22.47	22.25	22.00	0		
1.4	QPSK	3	0	22.29	22.53	22.34	23.00	0		
1.4	QPSK	3	1	22.26	22.52	22.33				
1.4	QPSK	3	2	22.26	22.48	22.28				
1.4	QPSK	6	0	21.32	21.59	21.34	22.00	0-1		
1.4	16QAM	1	0	21.64	21.89	21.66				
1.4	16QAM	1	2	21.67	21.90	21.60				
1.4	16QAM	1	5	21.63	21.88	21.60	22.00	0.4		
1.4	16QAM	3	0	21.48	21.71	21.37	23.00	0-1		
1.4	16QAM	3	1	21.51	21.70	21.44				
1.4	16QAM	3	2	21.46	21.63	21.46				
1.4	16QAM	6	0	20.45	20.66	20.33	21.00	0-2		

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<LTE Band 7>

BW [MHz]	Modulation	RB Size	RB Offset		Measured Powe	Tune-up limit	MPR	
	Cha	nnel		20850	21100	21350	(dBm)	(dB)
	Frequen	cy (MHz)		2510	2535	2560		
20	QPSK	1	0	21.58	21.37	21.63		
20	QPSK	1	49	21.14	20.87	21.23	22.50	0
20	QPSK	1	99	20.98	20.86	21.02		
20	QPSK	50	0	20.52	20.35	20.53		
20	QPSK	50	24	20.19	20.00	20.24	24.50	0-1
20	QPSK	50	49	20.16	20.05	20.30	21.50	0-1
20	QPSK	100	0	20.28	20.26	20.43		
20	16QAM	1	0	21.02	20.77	21.04		
20	16QAM	1	49	20.56	20.31	20.54	21.50	0-1
20	16QAM	1	99	20.30	20.23	20.49		
20	16QAM	50	0	19.75	19.41	19.68		
20	16QAM	50	24	19.40	19.00	19.38	24.00	0.0
20	16QAM	50	49	19.33	19.15	19.36	21.00	0-2
20	16QAM	100	0	19.46	19.25	19.54		
	Cha	innel		20825	21100	21375	Tune-up	MPR
	Frequen	cy (MHz)		2507.5	2535	2562.5	limit (dBm)	(dB)
15	QPSK	1	0	21.60	21.54	<mark>21.71</mark>		
15	QPSK	1	37	21.01	20.98	21.02	22.50	0
15	QPSK	1	74	21.14	21.16	21.25		
15	QPSK	36	0	20.47	20.34	20.55		
15	QPSK	36	18	20.25	20.00	20.31	21.50	0-1
15	QPSK	36	37	20.24	20.08	20.44	21.50	0-1
15	QPSK	75	0	20.35	20.12	20.47		
15	16QAM	1	0	20.95	20.88	21.13		
15	16QAM	1	37	20.46	20.16	20.48	21.50	0-1
15	16QAM	1	74	20.53	20.40	20.72		
15	16QAM	36	0	20.45	19.39	19.69		
15	16QAM	36	18	20.46	19.18	19.41	21.00	0.2
15	16QAM	36	37	20.96	19.19	19.40	21.00	0-2
15	16QAM	75	0	19.49	19.33	19.54		

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	Cha	innel		20800	21100	21400	Tune-up limit	MPR		
	Frequen	cy (MHz)		2505	2535	2565	(dBm)	(dB)		
10	QPSK	1	0	21.43	21.21	21.57				
10	QPSK	1	24	21.17	20.97	21.22	22.50	0		
10	QPSK	1	49	21.10	20.83	21.25				
10	QPSK	25	0	20.24	20.08	20.37				
10	QPSK	25	12	20.13	19.98	20.11	21.50	0-1		
10	QPSK	25	24	20.14	19.91	20.20	21.50	0-1		
10	QPSK	50	0	20.20	20.00	20.15				
10	16QAM	1	0	20.77	20.37	20.84				
10	16QAM	1	24	20.52	20.23	20.55	21.50	0-1		
10	16QAM	1	49	20.47	20.13	20.47				
10	16QAM	25	0	20.43	19.21	19.65	21.00			
10	16QAM	25	12	20.45	19.08	19.41		0-2		
10	16QAM	25	24	20.78	19.12	19.32	21.00	0-2		
10	16QAM	50	0	19.41	19.09	19.28				
	Channel			20775	21100	21425	Tune-up	MPR		
	Frequen	cy (MHz)		2502.5	2535	2567.5	limit (dBm)	(dB)		
5	QPSK	1	0	21.08	20.99	21.30				
5	QPSK	1	12	21.07	20.90	21.25	22.50	0		
5	QPSK	1	24	21.06	20.89	21.08				
5	QPSK	12	0	20.22	20.09	20.24				
5	QPSK	12	6	20.16	20.02	20.32	21.50	0-1		
5	QPSK	12	11	20.17	19.93	20.21	21.50	0-1		
5	QPSK	25	0	20.16	19.85	20.18				
5	16QAM	1	0	20.45	20.22	20.55				
5	16QAM	1	12	20.41	20.18	20.46	21.50	0-1		
5	16QAM	1	24	20.35	20.09	20.40				
5	16QAM	12	0	19.41	19.10	19.46				
5	16QAM	12	6	19.35	19.26	19.55	24.00	0.0		
5	16QAM	12	11	19.37	19.13	19.41	21.00	0-2		
5	16QAM	25	0	19.36	19.19	19.37				

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The table below summarized necessary items addressed in KDB 941225 D05 v02r03

FCC ID	ZMOL811								
EUT	LTE Module								
Operating Frequency Range of each LTE transmission band	LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 7: 2506.5 MHz ~ 2567.5 MHz								
Channel Bandwidth	LTE Band 17: 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 5: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 4: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 2: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz								
uplink modulations used	QPSK and 16QAM								
	Table Modulation	Cha	nnel bandw	idth / Tra	ansmission	bandwidth	(RB)	MPR (dB)	
LTE MPR permanently built-in by design		1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz		
	QPSK	>5	>4	>8	> 12	> 16	> 18	≤1	
	16 QAM 16 QAM	≤5 >5	≤ 4 > 4	≤8 >8	≤ 12 > 12	≤ 16 > 16	≤ 18 > 18	≤ 1 ≤ 2	
LTE -MPR	In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI).								
Spectrum plots for RB configuration	A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.								

SPORTON INTERNATIONAL (SHENZHEN) INC.

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				Transmis	sion (H, M	1, L) ch	nanr	nel numbe	rs and fred	quenc	cies i	n each LT	E band			
								Band	17							
				Bandwid	th 5 MHz							Bandwidt	h 10 MHz			
		Char	nel #	ŧ	Fre	quency	y (N	1Hz)		Char	nel #	ŧ	Free	quen	су (М	Hz)
L		237	755			706	.5			237	780		709			
M		237	790			710)		23790				710			
Н		238	325			713.	.5			238	300			71	1	
								Band	13							
				Bandwid	th 5 MHz				Bandwidth 10 MHz							
		Char	nel #	ŧ	Fre	quenc	y (N	1Hz)		Char	nel #	ŧ	Free	quen	су (М	Hz)
L		232	205			779.	.5									
M		232	230			782	2			232	230			78	32	
Н		232	255			784.	.5									
								LTE Ba								
-				MHz		MHz		ndwid				dwidt				
1	Ch. #			q. (MHz) 824.7	Ch. # 2041			eq. (MHz) 825.5	Ch. #			eq. (MHz) 826.5	Ch. #			q. (MHz) 829
М	20407			836.5	2052			836.5	2042			836.5	20430			336.5
Н	20643			848.3	2063			847.5	2062			20600			844	
					LTE Band 4											
	Bandwi MI	idth 1 Hz	1.4	Bandwid	th 3 MHz	Band	lwid	th 5 MHz	Bandwidt	h 10	MHz	Bandwidt	h 15 MHz	Band	dwidth	n 20 MHz
	Ch. #	Fre (MI		Ch. #	Freq. (MHz)	Ch.	#	Freq. (MHz)	Ch. #	Fre (Ml	eq. Hz)	Ch. #	Freq. (MHz)	Ch	. #	Freq. (MHz)
L	19957	171	0.7	19965	1711.5	1997	75	1712.5	20000	17	15	20025	1717.5	200)50	1720
M	20175	173	32.5	20175	1732.5	2017	75	1732.5	20175	173	32.5	20175	1732.5	201	175	1732.5
Н	20393	175	4.3	20385	1753.5	2037	75	1752.5	20350	17	50	20325	1747.5	203	300	1745
								LTE Ba	and 2							
	Bandw Mi	idth 1 Hz	1.4	Bandwid	th 3 MHz	Band	lwid	th 5 MHz	Bandwidt			Bandwidt	h 15 MHz	Band	dwidth	n 20 MHz
	Ch. #	Fre (MI	eq. Hz)	Ch. #	Freq. (MHz)	Ch.	#	Freq. (MHz)	Ch. #	Fre (Mi	eq. Hz)	Ch. #	Freq. (MHz)	Ch	. #	Freq. (MHz)
L	18607	185	0.7	18615	1851.5	1862	25	1852.5	18650	18	55	18675	1857.5	187	700	1860
M	18900	18	80	18900	1880	1890	00	1880	18900	18	80	18900	1880	189	900	1880
Н	19193	190	9.3	19185	1908.5	1917	75	1907.5	19150	19	05	19125	1902.5	191	100	1900
	LTE Band 7															
			th 5 I			dwidth			1	dwidt				dwidtl		
,	Ch. #			q. (MHz)	Ch. #			eq. (MHz)	Ch. #			q. (MHz)	Ch. #			q. (MHz)
M	20775			2502.5 2535	20800			2505 2535	2082			2507.5 2535	20850 21100			2510 2535
Н	2142			2567.5	21400			2565	21100			2562.5	21350		2560	
•								_000							-	300

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4. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A)	(A) Limits for Oc	ccupational/Controlled Expos	sures	80 mar 10
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/	f 4.89/1	*(900/f2)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
	(B) Limits for Gene	ral Population/Uncontrolled I	Exposure	10
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/	f 2.19/1	*(180/f2)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

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5. Radio Frequency Radiation Exposure Evaluation

5.1. Standalone Power Density Calculation

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 20cm (mW/cm^2)	Limit (mW/cm^2)
GPRS 850 (1 Tx slot)	824.2	3.00	33.00	36.00	3.98	501.19	0.10	0.55
GPRS 850 (2 Tx slots)	824.2	3.00	33.00	36.00	3.98	1000.00	0.20	0.55
GPRS 850 (3 Tx slots)	824.2	3.00	32.50	35.50	3.55	1330.45	0.26	0.55
GPRS 850 (4 Tx slots)	824.2	3.00	31.00	34.00	2.51	1258.93	0.25	0.55
EGPRS 850 (1 Tx slot)	824.2	3.00	27.50	30.50	1.12	141.25	0.03	0.55
EGPRS 850 (2 Tx slots)	824.2	3.00	27.50	30.50	1.12	281.84	0.06	0.55
EGPRS 850 (3 Tx slots)	824.2	3.00	26.50	29.50	0.89	334.20	0.07	0.55
EGPRS 850 (4 Tx slots)	824.2	3.00	25.50	28.50	0.71	354.81	0.07	0.55
GPRS 1900 (1 Tx slot)	1850.2	3.00	30.50	33.50	2.24	281.84	0.06	1.00
GPRS 1900 (2 Tx slots)	1850.2	3.00	30.50	33.50	2.24	562.34	0.11	1.00
GPRS 1900 (3 Tx slots)	1850.2	3.00	30.00	33.00	2.00	748.17	0.15	1.00
GPRS 1900 (4 Tx slots)	1850.2	3.00	28.50	31.50	1.41	707.95	0.14	1.00
EGPRS 1900 (1 Tx slot)	1850.2	3.00	27.00	30.00	1.00	125.89	0.03	1.00
EGPRS 1900 (2 Tx slots)	1850.2	3.00	27.00	30.00	1.00	251.19	0.05	1.00
EGPRS 1900 (3 Tx slots)	1850.2	3.00	26.00	29.00	0.79	297.85	0.06	1.00
EGPRS 1900 (4 Tx slots)	1850.2	3.00	25.00	28.00	0.63	316.23	0.06	1.00
WCDMA Band V	826.4	3.00	23.50	26.50	0.45	446.68	0.09	0.55
WCDMA Band IV	1712.4	3.00	24.00	27.00	0.50	501.19	0.10	1.00
WCDMA Band II	1852.4	3.00	24.00	27.00	0.50	501.19	0.10	1.00
LTE Band 17	706.5	3.00	23.50	26.50	0.45	446.68	0.09	0.47
LTE Band 13	779.5	3.00	23.00	26.00	0.40	398.11	0.08	0.52
LTE Band 5	824.7	3.00	23.00	26.00	0.40	398.11	0.08	0.55
LTE Band 4	1710.7	3.00	23.50	26.50	0.45	446.68	0.09	1.00
LTE Band 2	1850.7	3.00	23.00	26.00	0.40	398.11	0.08	1.00
LTE Band 7	2502.5	3.00	22.50	25.50	0.35	354.81	0.07	1.00

Note: For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band.

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

SPORTON INTERNATIONAL (SHENZHEN) INC.

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