

# **FCC RF TEST REPORT**

**APPLICANT** 

Shenzhen Medica Technology

Development Co.,Ltd.

PRODUCT NAME

RestOn

MODEL NAME

Z101

TRADE NAME

Sleepace

**BRAND NAME** 

Sleepace

FCC ID

2ADIOSAROZ101

STANDARD(S)

47 CFR Part 15 Subpart C

**ISSUE DATE** 

2014-11-25

SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

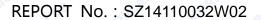
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Change History						
Issue	Issue Date Reason for change					
1.0	2014-11-25	First edition				
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# **Test Report Declaration**

Applicant	Shenzhen Medica Technology Development Co.,Ltd.		
Applicant Address	Room 518-520, Building 4, Shenzhen International Software Park, Nanshan District, Shenzhen, P.R China		
Manufacturer	Shenzhen Medica Technology Development Co,.Ltd.		
Manufacturer Address	Room 518-520, Building 4, Shenzhen International Software Park, Nanshan District, Shenzhen, P.R. China		
Product Name	RestOn		
Model Name	Z101		
Brand Name	Sleepace		
HW Version	1.2		
SW Version	1.8		
Test Standards	47 CFR Part 15 Subpart C		
Test Date	2014-11-11 to 2014-11-25		
Test Result	PASS		

Tested by	:	Shen sen bing
		Shen Senping
Reviewed by	: <u></u>	Qiu Xiaojun
		Qiu Xiaojun
Approved by		Zeng Dexin
		Zeng Dexin



# 1. Technical Information

Note: Provide by applicant.

## 1.1. Applicant Information

Company:	Shenzhen Medica Technology Development Co.,Ltd.			
Address:	Room 518-520, Building 4, Shenzhen International Software Park,			
AB RLAD	Nanshan District, Shenzhen, P.R China			

## 1.2. Equipment under Test (EUT) Description

Brand Name:	Sleepace
Trade Name:	Sleepace
Model Name:	Z101
Frequency Range:	The frequency range used is 2402MHz - 2480MHz (40 channels, at intervals of 2MHz);
Modulation Type:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	-1.0dBi

#### NOTE:

The EUT is RestOn, it contain Bluetooth 4.0 LE Module operating at 2.4GHz ISM band; the frequencies allocated for the Bluetooth 4.0 LE is F(MHz)=2402+2\*n (0<=n<=39). The lowest, middle, highest channel numbers of the Bluetooth Module used and tested in this report are separately 0 (2402MHz), 19 (2440MHz) and 39 (2480MHz).

For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

### 1.2.1. Identification of all used EUTs

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.

<b>EUT Identity</b>	Hardware Version	Software Version
A01	1.2	1.8



## 1.3. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C (Bluetooth, 2.4GHz ISM band radiators) for the EUT FCC ID Certification:

	No.	Identity	Document Title
	1	47 CFR Part 15	Radio Frequency Devices
Ý		(10-1-13 Edition)	AE RIAL MORL MO.

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Result
1	15.203	Antenna Requirement	PASS
2	15.247(b)	Peak Output Power	PASS
3	15.247(a)	Bandwidth	PASS
4	15.247(d)	Conducted Spurious Emission and Band Edge	PASS
5	15.247(d)	Restricted Frequency Bands	PASS
6	15.207	Conducted Emission	PASS
7_	15.209 ,15.247(d)	Radiated Emission	PASS
8	15.247(e)	Power spectral density (PSD)	PASS
9	15.247(i),1.1307& 2.1093	RF exposure evaluation	PASS

The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.4 2009.

These RF tests were performed according to the method of measurements prescribed in KDB558074 D01 v03r02 (05/06/2014).

# 1.3.1. Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106



# 2. 47 CFR PART 15C REQUIREMENTS

# 2.1. Antenna requirement

# 2.1.1. Applicable Standard

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

### 2.1.2. Result: Compliant

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

## 2.2. Peak Output Power

# 2.2.1. Requirement

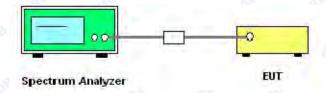
According to FCC section 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: The maximum peak conducted output power of the intentional radiator shall not exceed 1 Watt.

### 2.2.2. Test Description

The measured output power was calculated by the reading of the spectrum analyzer and calibration.

#### A. Test Setup:





The EUT (Equipment under the test) which is powered by the Battery is coupled to the Spectrum analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading, all test result in Spectrum analyzer.

### **B.** Equipments List:

Please reference ANNEX A(1.4).

### 2.2.3. Test Result

The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.



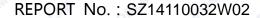
#### A. Test Verdict:

Channel Frequency		Measured Output Peak Power		Refer to	Limit		\/ordiat
Channel	(MHz)	dBm	W	Plot	dBm	W	Verdict
0	2402	1.685	0.001474	Plot A	0	M	PASS
19	2440	1.040	0.001271	Plot B	30	1 m	PASS
39	2480	0.113	0.001026	Plot C			PASS

#### B. Test Plots:



(Plot A: Channel 0: 2402MHz)







(Plot B: Channel 19: 2440MHz)



(Plot C: Channel 39: 2480MHz)



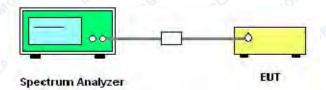
### 2.3. 6dB Bandwidth

# 2.3.1. Requirement

According to FCC section 15.247(a) (2), Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

## 2.3.2. Test Description

### A. Test Set:



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

#### **B.** Equipments List:

Please reference ANNEX A(1.4).

### 2.3.3. Test Result

The lowest, middle and highest channels are selected to perform testing to record the 6 dB bandwidth of the Module.



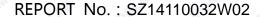
#### A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Refer to Plot	Limits(kHz)	Result
0	2402	0.6866	Plot A	≥500	PASS
19	2440	0.6840	Plot B	≥500	PASS
39	2480	0.6912	Plot C	≥500	PASS

#### B. Test Plots:



(Plot A: Channel 0: 2402MHz)







(Plot B: Channel 19: 2440 MHz)



(Plot C: Channel 39: 2480MHz)



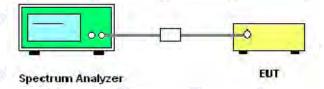
## 2.4. Conducted Spurious Emissions and Band Edge

# 2.4.1. Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

## 2.4.2. Test Description

#### A. Test Set:



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

#### B. Equipments List:

Please reference ANNEX A(1.4).

### 2.4.3. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions.



#### A. Test Verdict:

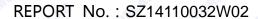
		Measured		Limit		
Channel	Frequency (MHz)	Max. Out of Band Emission (dBm)	Refer to Plot	Carrier Level	Calculated -20dBc Limit	Verdict
0	2402	-42.632	Plot A.1	-0.605	-20.605	PASS
19	2440	-42.261	Plot B.1	-1.512	-21.512	PASS
39	2480	-42.147	Plot C.1	-1.770	-21.770	PASS

#### B. Test Plots:

Note: the power of the Module transmitting frequency should be ignored.



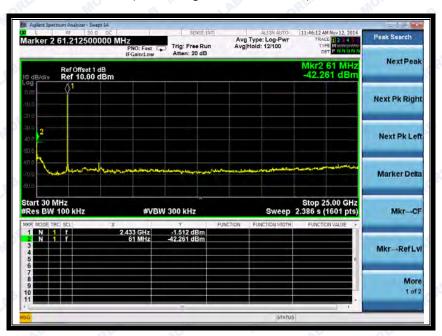
(Plot A.1: Channel = 0, 30MHz to 25GHz)



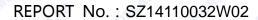




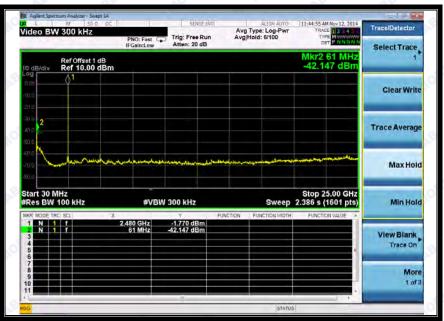
(Band Edge@ Channel = 0)



(Plot B.1: Channel = 19, 30MHz to 25GHz)







(Plot C.1: Channel = 39, 30MHz to 25GHz)



(Band Edge@ Channel = 39)



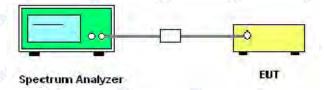
# 2.5. Power spectral density (PSD)

## 2.5.1. Requirement

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density

# 2.5.2. Test Description

#### A. Test Set:



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.

#### B. Equipments List:

Please reference ANNEX A(1.4).



### 2.5.3. Test Result

The lowest, middle and highest channels are tested.

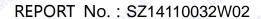
#### A. Test Verdict:

Spectral power density (dBm/3kHz)									
Channal	Frequency	Measured PSD		Limit	Verdic				
Channel	(MHz)	(dBm/3kHz)	Refer to Plot	(dBm/3kHz)	t				
0	2402	-10.903	Plot A	8	PASS				
19	2440	-11.769	Plot B	8	PASS				
39	2480	-11.062	Plot C	8	PASS				
Measurement uncertainty: ±1.3dB									

#### B. Test Plots:



(Plot A: Channel = 0)







(Plot B: Channel = 19)



(Plot C: Channel = 39)



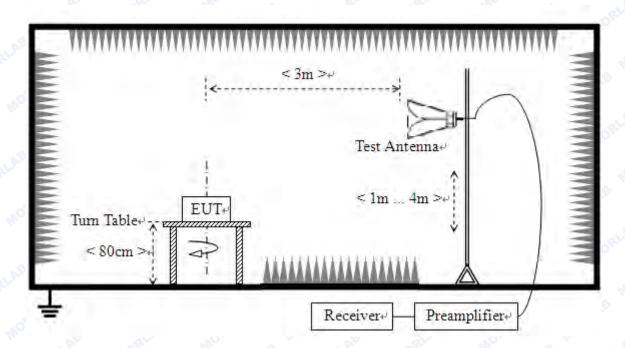
## 2.6. Restricted Frequency Bands

## 2.6.1. Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

# 2.6.2. Test Description

#### A. Test Setup



The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the



ground to determine the maximum value of the field strength.

### **B.** Equipments List:

Please reference ANNEX A(1.4).

### 2.6.3. Test Result

The lowest and highest channels are tested to verify the Restricted Frequency Bands.

The measurement results are obtained as below:

 $E [dB\mu V/m] = U_R + A_T + A_{Factor} [dB]; A_T = L_{Cable loss} [dB] - G_{preamp} [dB]$ 

A<sub>T</sub>: Total correction Factor except Antenna

U<sub>R</sub>: Receiver Reading G<sub>preamp</sub>: Preamplifier Gain A<sub>Factor</sub>: Antenna Factor at 3m

Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

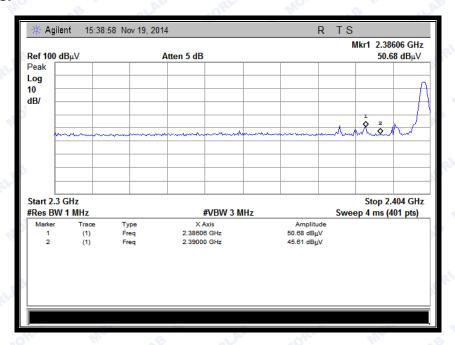
#### A. Test Verdict:

Channel	Frequency	Detector	Receiver Reading UR	AT (dB)	AFactor	Max. Emission E	Limit	Verdict	
(MHz)		PK/ AV	(dBuV)	(dB)	(dB@3m)	(dBµV/m)	(dBµV/m)		
0	2386.06	PK	50.68	-33.63	32.56	49.61	74	Pass	
0	2373.32	AV	35.76	-33.63	32.56	34.69	54	Pass	
39	2488.35	PK	47.05	-33.18	32.5	46.37	74	Pass	
39	2483.84	AV	35.17	-33.18	32.5	34.49	54	Pass	

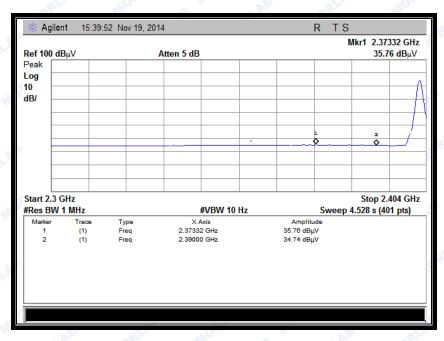




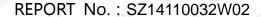
#### **B.** Test Plots:



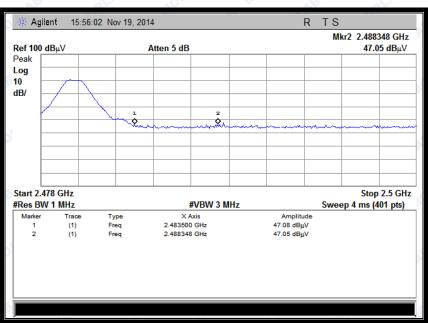
(Plot A1: Channel = 0 PEAK)



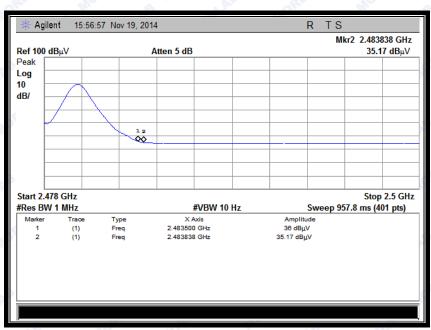
(Plot A2: Channel = 0 AVG)







(Plot B1: Channel = 39 PEAK)



(Plot B2: Channel = 39 AVG)



### 2.7. Conducted Emission

# 2.7.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a  $50\mu\text{H}/50\Omega$  line impedance stabilization network (LISN).

Frequency	range	Conducted Limit (dBµV)					
(MHz)		Quai-peak	Average				
0.15 - 0.50	Mor	66 to 56	56 to 46				
0.50 - 5	3	56	46				
5 - 30	VB ///	60	50				

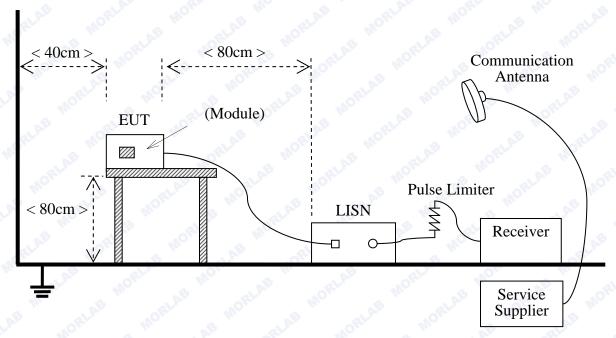
#### NOTE:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 0.50MHz.

# 2.7.2. Test Description

A. Test Setup:





The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.4:2009

#### **B.** Equipments List:

Please reference ANNEX A(1.4).

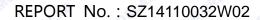
# 2.7.3. Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

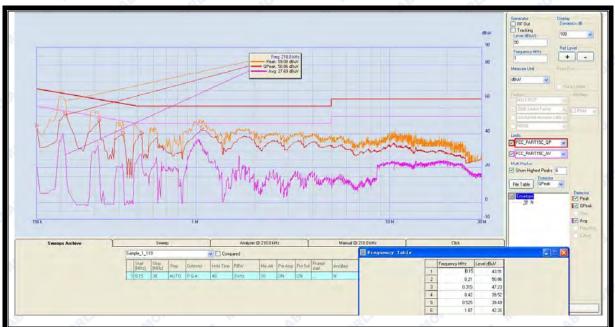
#### A. Test setup:

The EUT configuration of the emission tests is EUT + Link.

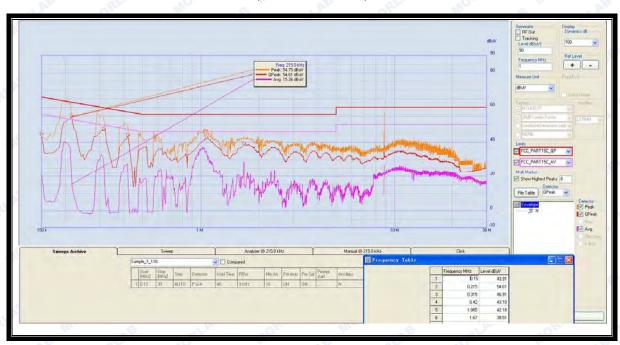
#### B. Test Plots:







(Plot A: L Phase)



(Plot B: N Phase)



### 2.8. Radiated Emission

## 2.8.1. Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3 10 10 110
216 - 960	200	3
Above 960	500	N 3 RELEGIE

#### Note:

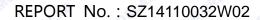
- For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
- 2. For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK)

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)

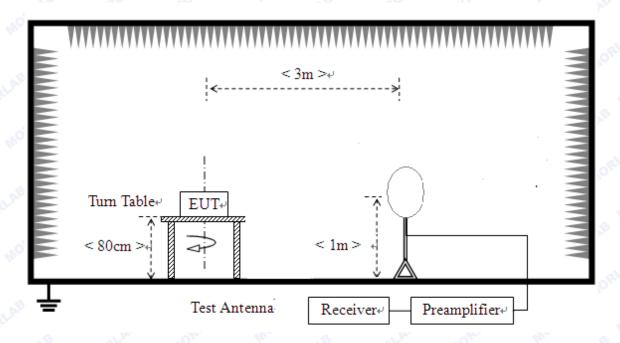
## 2.8.2. Test Description

### A. Test Setup:

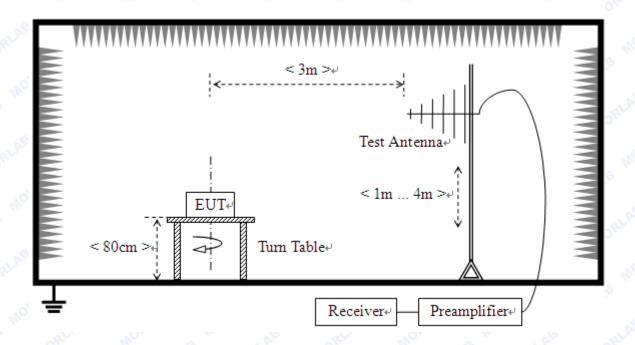
1) For radiated emissions from 9kHz to 30MHz





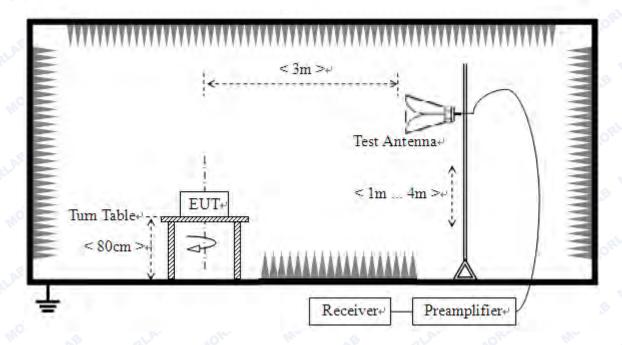


2) For radiated emissions from 30MHz to1GHz





### 3) For radiated emissions above 1GHz



The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.4 (2009). The EUT was set-up on insulator 80cm above the Ground Plane. The set-up and test methods were according to ANSI C63.4.

The EUT of the EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

#### For the Test Antenna:

- (a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- (b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

#### **B.** Equipments List:

Please reference ANNEX A(1.4).



#### 2.8.3. Test Result

According to ANSI C63.4 selection 4.2.2, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak measurement.

The measurement results are obtained as below:

 $E [dB\mu V/m] = U_R + A_T + A_{Factor} [dB]; A_T = L_{Cable loss} [dB] - G_{preamp} [dB]$ 

A<sub>T</sub>: Total correction Factor except Antenna

U<sub>R</sub>: Receiver Reading G<sub>preamp</sub>: Preamplifier Gain

A<sub>Factor</sub>: Antenna Factor at 3m

During the test, the total correction Factor A<sub>T</sub> and A<sub>Factor</sub> were built in test software.

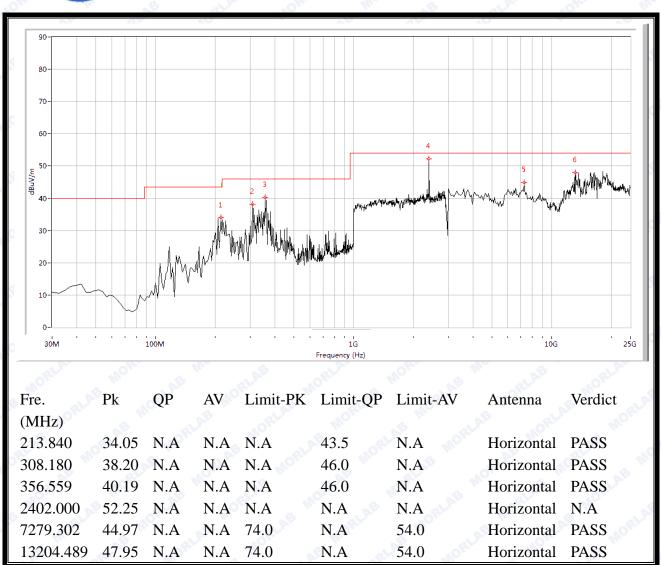
**Note:** All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

The low frequency, which started from 9KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

#### A. Test Plots for the Whole Measurement Frequency Range:

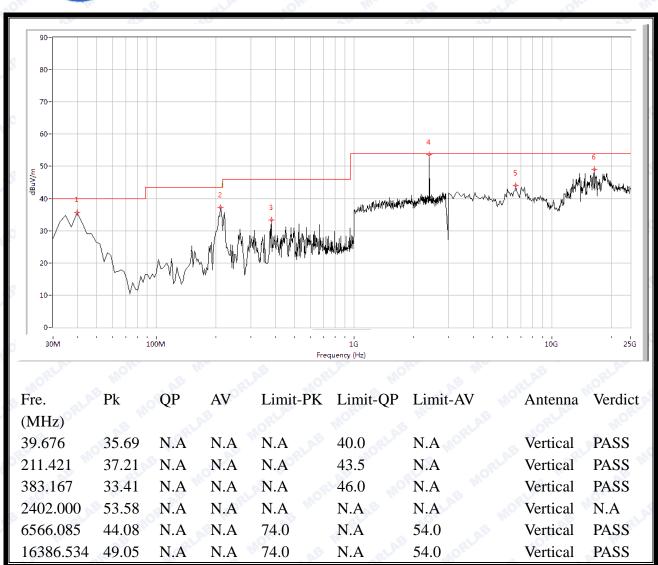
Plots for Channel = 0



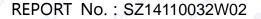


(Antenna Horizontal, 30MHz to 25GHz)



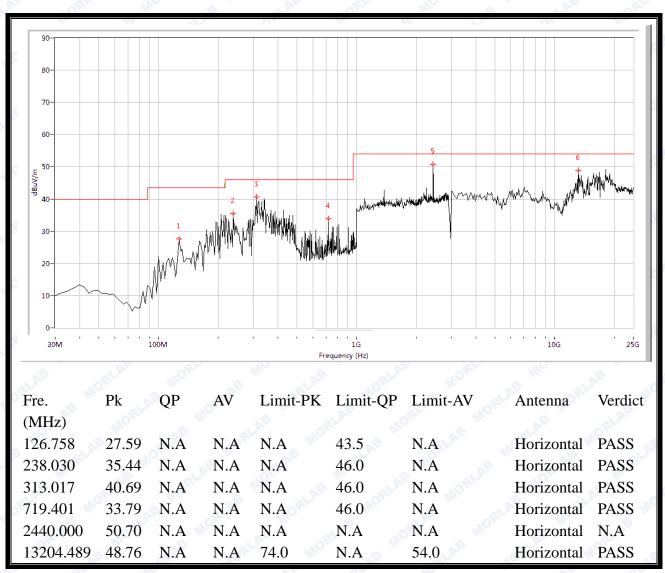


(Antenna Vertical, 30MHz to 25GHz)



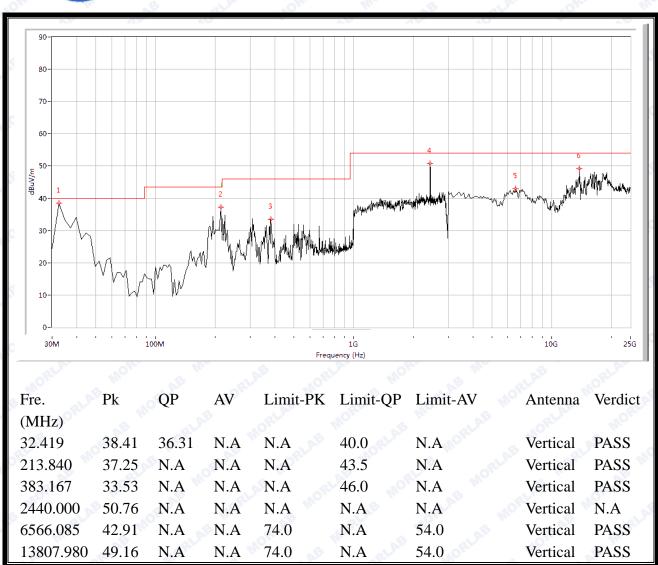


#### Plot for Channel = 19



(Antenna Horizontal, 30MHz to 25GHz)

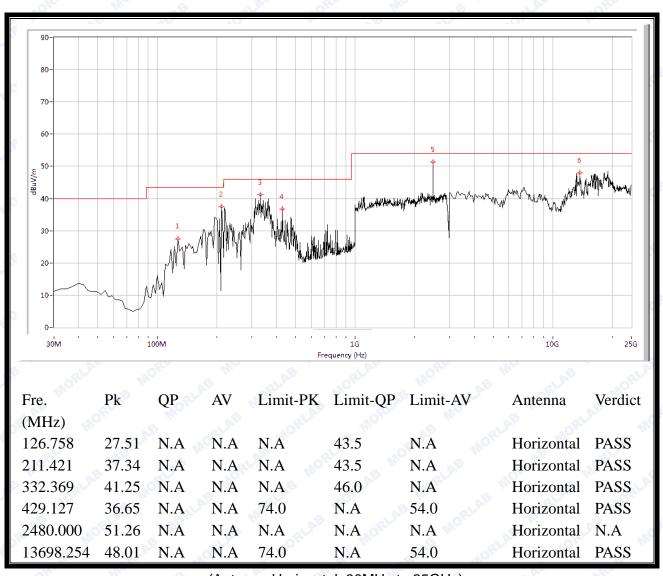




(Antenna Vertical, 30MHz to 25GHz)

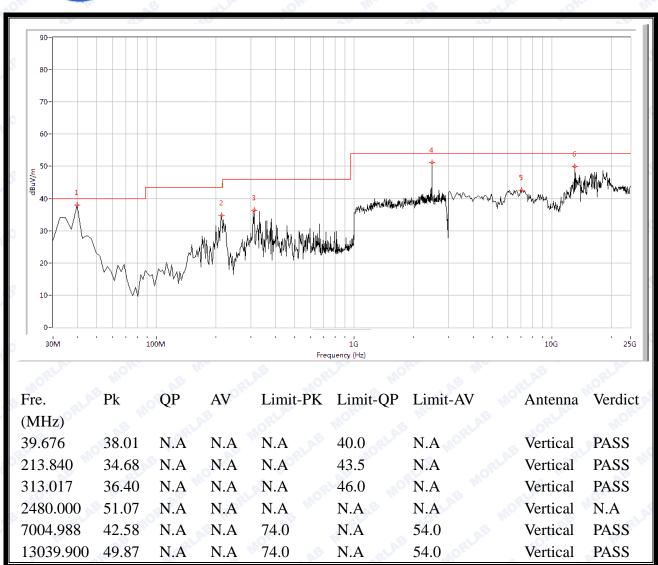


#### Plot for Channel = 39



(Antenna Horizontal, 30MHz to 25GHz)





(Antenna Vertical, 30MHz to 25GHz)



# 2.9. RF exposure evaluation

According to § 1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy lever in excess of Commission's guideline.

According to 447498 D01 General RF Exposure Guidance v05, exclusion threshold values at selected frequencies and distances table as following.

	- L.)*			$\mathcal{C}$		
MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
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	SAR Test
1900	11	22	33	44	54	Exclusion Threshold (mW)
2450	10	19	29	38	48	Timeshold (in (i))
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	
MHz	30	35	40	45	50	mm
150	232	271	310	349	387	
300	164	192	219	246	274	
450	134	157	179	201	224	
835	98	115	131	148	164	
900	95	111	126	142	158	
1500	73	86	98	110	122	SAR Test
1900	65	76	87	98	109	Exclusion Threshold (mW)
	0.5		0,			
2450	57	67	77	86	96	
2450 3600				86 71	96 79	
	57	67	77	10.0		
3600	57 47	67 55	77 63	71	79	

Routine SAR evaluation refers to the specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evolution is not required, the portable transmitters with output power greater than the applicable low threshold SAR evolution to qualify for TCB approval.

#### Result:

This is portable device and the Max conducted peak output power is 1.685dBm. which is lower than the exclusion threshold 10mW, at frequency 2450MHz, and distance is 5mm.

The SAR measurement is not required.



# **Annex A General Information**

## 1.1 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				
Telephone:	+86 755 36698555				
Facsimile:	+86 755 36698525				

# 1.2 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

### 1.3 Facilities and Accreditations

Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L3572.

All measurement facilities used to collect the measurement data are located at FL.1, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10 2009, ANSI C63.4 2009 and CISPR Publication 22; the FCC registration number is 695796.

The IC registration number is 7183A-2.



# 1.4 Test Equipments Utilized

# 1.4.1 Conducted Test Equipments

Cond	ducted Test Equipme	nt				
No.	Equipment Name	Serial No.	Туре	Manufacturer	Cal. Date	Cal. Due
1	Spectrum Analyzer	MY45101810	E4407B	Agilent	2014.02.26	2015.02.25
2	Power Splitter	NW521	1506A	Weinschel	2014.02.26	2015.02.25
3	Attenuator 1	(n.a.)	10dB	Resnet	2014.02.26	2015.02.25
4	Attenuator 2	(n.a.)	3dB	Resnet	2014.02.26	2015.02.25
5	USB Wideband Power Sensor	MY52280010	U2021XA	Agilent	2014.02.26	2015.02.25
6	EXA Signal Analzyer	MY51440152	N9010A	Agilent	2014.02.26	2015.02.25
7	RF cable	CB01	RF01	Morlab	N/A	N/A
8	Coaxial cable	CB02	RF02	Morlab	N/A	N/A
9	SMA connector	CN01	RF03	HUBER-SUHNER	N/A	N/A

# 1.4.2Conducted Emission Test Equipments

Conducted Emission Test Equipments								
No.	Equipment Name	Serial No.	Туре	Manufacturer	Cal. Date	Cal. Due		
1,00	Receiver	US44210471	E7405A	Agilent	2014.02.26	2015.02.25		
2	LISN	812744	NSLK 8127	Schwarzbeck	2014.02.26	2015.02.25		
3	Service Supplier	100448	CMU200	R&S	2014.02.26	2015.02.25		
4	Pulse Limiter	9391	VTSD	Schwarzbeck	2014.02.26	2015.02.25		
	(20dB)	MOKIT IN	9561-D	ORLAP MORL	Mo			
5	Coaxial cable(BNC)	CB01	EMC01	Morlab	N/A	N/A		

# 1.4.3 Radiated Test Equipments

Radi	ated Test Equipments	SLAB	MORL!	NO.	QLAB NO	MOL
No.	Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal.Due Date
1	Receiver	US44210471	E7405A	Agilent	2014.02.26	2015.02.25



2	Test Antenna - Bi-Log	9163-274	9m*6m*6m	Albatross	2014.02.26	2015.02.25
3	Test Antenna - Horn	9120D-963	VULB 9163	Schwarzbeck	2014.02.26	2015.02.25
4	Test Antenna - Horn	71688	BBHA 9120D	Schwarzbeck	2014.02.26	2015.02.25
5	Test Antenna - Loop	1519-022	HL050S7	R&S	2014.02.26	2015.02.25
6	Reject Filter	(n.a.)	BRM50702	Micro-Tronics	2014.02.26	2015.02.25
7	Coaxial cable (N male)	CB02	EMC02	Morlab	N/A	N/A
8	Coaxial cable (N male)	CB03	EMC03	Morlab	N/A	N/A

# 1.4.4Climate Chamber

Climate Chamber						
No.	Equipment Name	Serial No.	Туре	Manufacturer	Cal.Date	Cal.Due Date
1	Climate Chamber	2004012	HL4003T	Yinhe	2014.02.26	2015.02.25

# 1.4.5 Vibration Table

Vibra	ation Table	E OLAP	ORLA	More	II. SLAB	ORLA
No.	<b>Equipment Name</b>	Serial No.	Туре	Manufacturer	Cal.Date	Cal.Due Date
) <sup>R</sup> 1	Vibration Table	N/A	ACT2000- S015L	СМІ-СОМ	2014.02.26	2015.02.25

# 1.4.6Anechoic Chamber

Ane	choic Chamber	OLER WIL	, AB	ORLAN MOR	Mo	AB ELA
No.	<b>Equipment Name</b>	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
9 1	Anechoic Chamber	N/A	9m*6m*6m	Albatross	2014.02.26	2015.02.25

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

