

Page 1 of 26

# APPLICATION CERTIFICATION On Behalf of Sense Technology Co., Ltd.

Equipment Position Monitor Label Model No.: Sense-TP03

FCC ID: 2AHIJ-SENSE-TP03

Prepared for : Sense Technology Co., Ltd.

Address : 9/F, Jianghao Business Center, Jianghao Industrial Park,

No.430 Jihua Road, Bantian, Longgang District,

Shenzhen, Guangdong, China. 518129

Prepared by : ACCURATE TECHNOLOGY CO., LTD

Address : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.

Science & Industry Park, Nanshan, Shenzhen, Guangdong

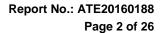
P.R. China

Tel: (0755) 26503290 Fax: (0755) 26503396

Report Number : ATE20160188

Date of Test : February 19, 2016

Date of Report : February 24, 2016





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### **Test Report Certification**

**Applicant** : Sense Technology Co., Ltd. Manufacturer Sense Technology Co., Ltd.

EUT Description : Equipment Position Monitor Label

(A) Model No.: Sense-TP03

(B) Trade Mark: Sense

(C) Power Supply: DC 3V

Measurement Procedure Used:

#### FCC Rules and Regulations Part 15 Subpart C Section 15.249: 2015 ANSI C63.10: 2013

The EUT was tested according to FCC 47CFR 15.249 for compliance to FCC 47CFR 15.249 requirements

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.249 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test :	February 19, 2016	
Date of Report:	February 24, 2016	
Prepared by:	- 11.3.9	
	BobWay	
	(Bob Wang, Engineer)	
Approved & Authorized Signer:		
	Lemily	
	(Sean Lu, Manager)	



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#### 1. GENERAL INFORMATION

#### 1.1.Description of Device (EUT)

EUT : Equipment Position Monitor Label

Model Number : Sense-TP03

Trade Mark : Sense

Power Supply : DC 3V

Modulation: : GFSK Frequency Range : 2425MHz

Number of Channels : 1

Type of Antenna : Integral Antenna

Max antenna gain : 0dBi

Applicant : Sense Technology Co., Ltd.

Address : 9/F, Jianghao Business Center, Jianghao Industrial Park,

No.430 Jihua Road, Bantian, Longgang District, Shenzhen,

Guangdong, China. 518129

Manufacturer : Sense Technology Co., Ltd.

Address : 9/F, Jianghao Business Center, Jianghao Industrial Park,

No.430 Jihua Road, Bantian, Longgang District, Shenzhen,

Guangdong, China. 518129

Date of sample

received

: February 18, 2016

Date of Test : February 19, 2016

#### 1.2. Special Accessory and Auxiliary Equipment

N/A



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#### 1.3.Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC

The Registration Number is 752051

Listed by Industry Canada

The Registration Number is 5077A-2

Accredited by China National Accreditation Committee

for Laboratories

The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.

Science & Industry Park, Nanshan, Shenzhen, Guangdong

P.R. China

#### 1.4. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2

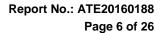
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2

(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2

(Above 1GHz)

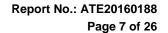




2. MEASURING DEVICE AND TEST EQUIPMENT

**Table 1: List of Test and Measurement Equipment** 

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 9, 2016	Jan. 8, 2017
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 9, 2016	Jan. 8, 2017
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 9, 2016	Jan. 8, 2017
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 9, 2016	Jan. 8, 2017
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 14, 2016	Jan. 13, 2017
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 14, 2016	Jan. 13, 2017
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 14, 2016	Jan. 13, 2017
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 14, 2016	Jan. 13, 2017
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 9, 2016	Jan. 8, 2017
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 9, 2016	Jan. 8, 2017





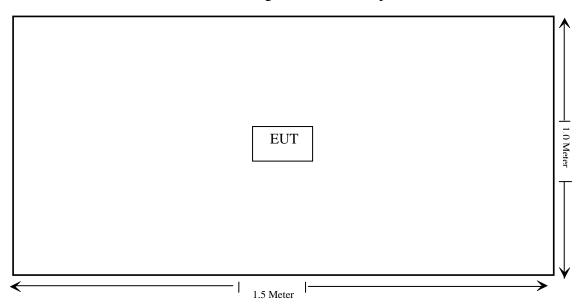
3. OPERATION OF EUT DURING TESTING

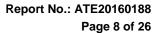
## 3.1.Operating Mode

The mode is used: **Transmitting mode: 2425MHz** 

# 3.2.Configuration and peripherals

#### Block Diagram of Test Setup







4. TEST PROCEDURES AND RESULTS

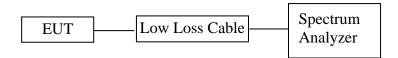
FCC Rules	<b>Description of Test</b>	Result
Section 15.215(c)	20dB Bandwidth	Compliant
Section 15.249(d)	Band Edge Compliance Test	Compliant
Section 15.205(a), Section 15.209(a), Section 15.249, Section 15.35	Radiated Spurious Emission Test	Compliant
Section 15.207	AC Power Line Conducted Emission Test	N/A
Section 15.203	Antenna Requirement	Compliant





5. 20DB BANDWIDTH MEASUREMENT

#### 5.1.Block Diagram of Test Setup



#### 5.2. The Requirement For Section 15.215(c)

The bandwidth of a frequency hopping channel is the 20 dB emission bandwidth, measured with the hopping stopped. The system RF bandwidth is equal to the channel bandwidth multiplied by the number of channels in the hopset. The hopset shall be such that the near-term distribution of frequencies appears random, with sequential hops randomly distributed in both direction and magnitude of change in the hopset while the long-term distribution appears evenly distributed.

#### 5.3. Operating Condition of EUT

- 5.3.1. Setup the EUT and simulator as shown as Section 5.1.
- 5.3.2. Turn on the power of all equipment.
- 5.3.3.Let the EUT work in TX modes measure it. The transmit frequency is 2425MHz.

#### 5.4.Test Procedure

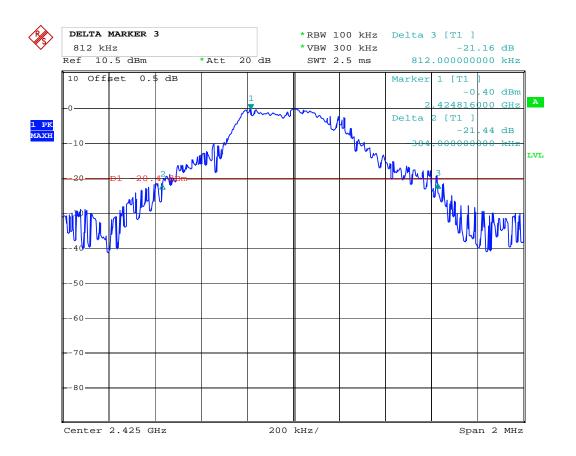
- 5.4.1. Place the EUT on the table and set it in transmitting mode.
- 5.4.2.Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 5.4.3.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz, Detector function=peak, Trace=max hold, Sweep=auto.
- 5.4.4.Set the measured low, middle and high frequency and test 20dB bandwidth with spectrum analyzer.



#### 5.5.Test Result

Frequency (MHz)	20 dB Bandwidth (MHz)
2425	0.812

The spectrum analyzer plots are attached as below.



Date: 19.FEB.2016 13:50:04



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# 6.1.Block Diagram of Test Setup

6. BAND EDGE COMPLIANCE TEST



#### 6.2. The Requirement For Section 15.249

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

#### 6.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 6.4. Operating Condition of EUT

- 6.4.1. Setup the EUT and simulator as shown as Section 6.1.
- 6.4.2. Turn on the power of all equipment.
- 6.4.3.Let the EUT work in TX modes measure it. The transmit frequency is 2425MHz MHz.

#### 6.5. Test Procedure

Conducted Band Edge:

- 6.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.
- 6.5.2.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.



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Radiated Band Edge:

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

3. Display the measurement of peak values.

#### Test Procedure:

The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

Let the EUT work in TX modes then measure it.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

- 1.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
- 2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- 3.All modes of operation were investigated and the worst-case emissions are reported.

6.6.Test Result

**Pass** 



Site: 1# Chamber

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Fax:+86-0755-26503396



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#### Radiated Band Edge Result



#### ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park, Nanshan Shenzhen, P.R. China

Polarization: Vertical Power Source: DC 3V

> Date: 2016/02/19 Time: 14:53:52

Engineer Signature: Ricky

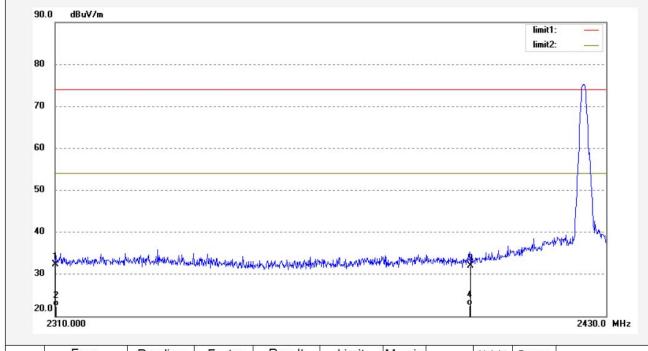
Distance: 3m

Job No.: Ricky 2016 #22 Standard: FCC PK Test item: Radiation Test Temp.( C)/Hum.(%) 25 C / 55 %

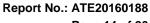
EUT: Equipment Position Monitor Label

TX 2425MHz Mode: Model: Sense-TC03 Manufacturer: Sense

Report No.:ATE20160188 Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)		Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	40.19	-7.81	32.38	74.00	-41.62	peak			
2	2310.000	30.18	-7.81	22.37	54.00	-31.63	AVG			
3	2400.000	39.41	-7.50	31.91	74.00	-42.09	peak			
4	2400.000	29.98	-7.50	22.48	54.00	-31.52	AVG	1		



Site: 1# Chamber



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#### ACCURATE TECHNOLOGY CO., LTD.

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an Rd, Tel:+86-0755-26503290 R.China Fax:+86-0755-26503396

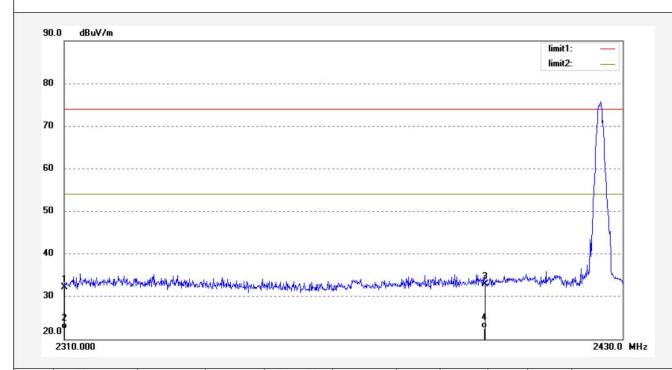
Job No.: Ricky 2016 #21 Polarization: Horizontal Standard: FCC PK Power Source: DC 3V Test item: Radiation Test Date: 2016/02/19

Temp.( C)/Hum.(%) 25 C / 55 % Time: 14:51:05

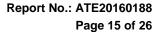
EUT: Equipment Position Monitor Label Engineer Signature: Ricky Mode: TX 2425MHz Distance: 3m

Model: Sense-TC03 Manufacturer: Sense

Note: Report No.:ATE20160188



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2310.000	40.02	-7.81	32.21	74.00	-41.79	peak			
2	2310.000	30.11	-7.81	22.30	54.00	-31.70	AVG			
3	2400.000	40.43	-7.50	32.93	74.00	-41.07	peak			
4	2400.000	30.12	-7.50	22.62	54.00	-31.38	AVG		0	



Site: 1# Chamber Tel:+86-0755-26503290

Fax:+86-0755-26503396



A FOR

#### ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China

Job No.: Ricky 2016 #20 Polarization: Horizontal Standard: FCC PK Power Source: DC 3V Test item: Radiation Test Date: 2016/02/19

Temp.( C)/Hum.(%) 25 C / 55 % Time: 14:33:37

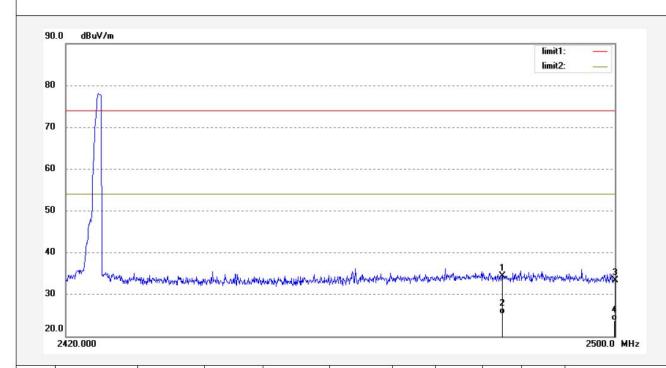
EUT: Equipment Position Monitor Label Engineer Signature: Ricky Mode: TX 2425MHz Distance: 3m

Mode: TX 2425MHz

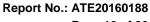
Model: Sense-TC03

Manufacturer: Sense

Note: Report No.:ATE20160188



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	41.79	-7.38	34.41	74.00	-39.59	peak			
2	2483.500	32.78	-7.38	25.40	54.00	-28.60	AVG			
3	2500.000	40.80	-7.40	33.40	74.00	-40.60	peak			
4	2500.000	31.09	-7.40	23.69	54.00	-30.31	AVG			



Site: 1# Chamber

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Fax:+86-0755-26503396



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#### ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park, Nanshan Shenzhen, P.R. China

> Polarization: Vertical Power Source: DC 3V

Date: 2016/02/19 Time: 14:26:40

Engineer Signature: Ricky

Distance: 3m

Job No.: Ricky 2016 #19 Standard: FCC PK

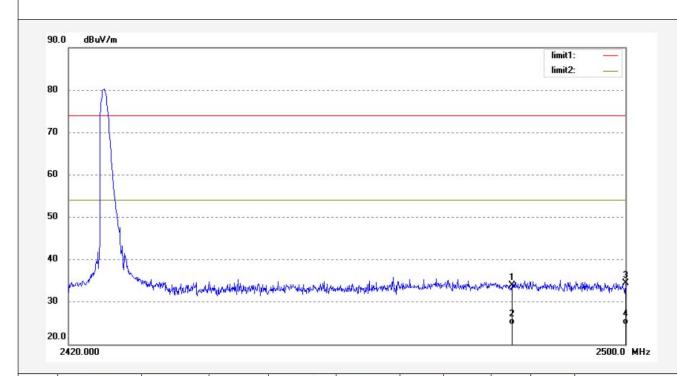
Test item: Radiation Test Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Equipment Position Monitor Label

Mode: TX 2425MHz

Model: Sense-TC03 Manufacturer: Sense

Note: Report No.:ATE20160188



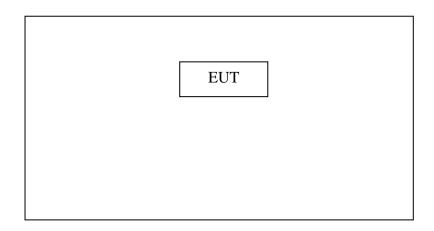
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	41.21	-7.38	33.83	74.00	-40.17	peak			
2	2483.500	31.99	-7.38	24.61	54.00	-29.39	AVG			
3	2500.000	41.90	-7.40	34.50	74.00	-39.50	peak			
4	2500.000	32.01	-7.40	24.61	54.00	-29.39	AVG			



#### 7. RADIATED SPURIOUS EMISSION TEST

#### 7.1.Block Diagram of Test Setup

7.1.1.Block diagram of connection between the EUT and peripherals



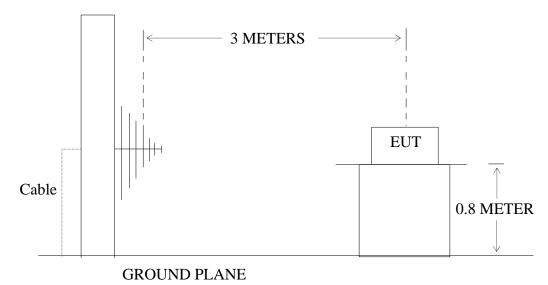
Setup: Transmitting mode

(EUT: Equipment Position Monitor Label)

7.1.2.Semi-Anechoic Chamber Test Setup Diagram

**Below 1GHz** 

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS

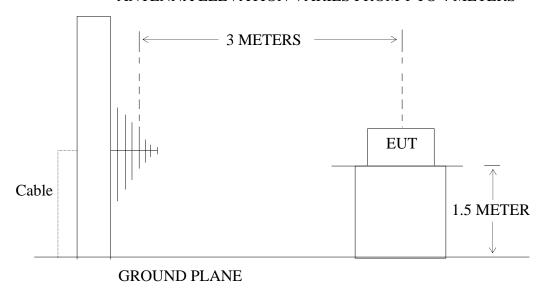




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#### **Above 1GHz**

#### ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



#### 7.2. The Limit For Section 15.249

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph A8.4(4), the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).



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#### 7.3.Restricted bands of operation

#### 7.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	$\binom{2}{}$
13.36-13.41			

Until February 1, 1999, this restricted band shall be 0.490-0.510

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

#### 7.4. Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

#### 7.5. Operating Condition of EUT

- 7.5.1. Setup the EUT and simulator as shown as Section 7.1.
- 7.5.2. Turn on the power of all equipment.
- 7.5.3.Let the EUT work in TX modes measure it. The transmit frequency is 2425MHz.

<sup>&</sup>lt;sup>2</sup>Above 38.6



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#### 7.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground(Below 1GHz). The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The frequency range from 30MHz to 25000MHz is checked. Result = Reading + Corrected Factor Where Corrected Factor = Antenna Factor + Cable Loss - Amplifier Gain

During the radiated emission test, the spectrum analyzer was set with the following configurations:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.



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# 7.7. The Field Strength of Radiation Emission Measurement Results **PASS.**

#### For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss - Amplifier Gain

	Timpiner Gain										
Frequency	Reading	Factor	Result	Limit	Margin	Polarization					
(MHz)	$(dB\mu V/m)$	Corr.	(dBµV/m)	(dBµV/m)	(dB)						
	QP	(dB)	QP	QP	QP						
						Vertical					
						Vertical					
						Vertical					
						Horizontal					
						Horizontal					
						Horizontal					

#### For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency	Reading(dBµV/m)		Factor	Result(dBµV/m)		Limit(dBµV/m)		Margin(dBµV/m)		Polarizati
(MHz)	AV	PEAK	Corr. (dB)	AV	PEAK	AV	PEAK	AV	PEAK	on
-	-	-	1	-	-	ı	-	-	-	Vertical
-	-	-	-	-	-	-	_	-	-	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

- 2. \*: Denotes restricted band of operation.
- 3. The EUT is tested radiation emission at Low, Middle, High channel in three axes. The worst emissions are reported in all channels.
  - 4. The radiation emissions from 18-25GHz are not reported, because the test values lower than the limits of 20dB.







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Job No.: Ricky 2016 #34

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Equipment Position Monitor Label

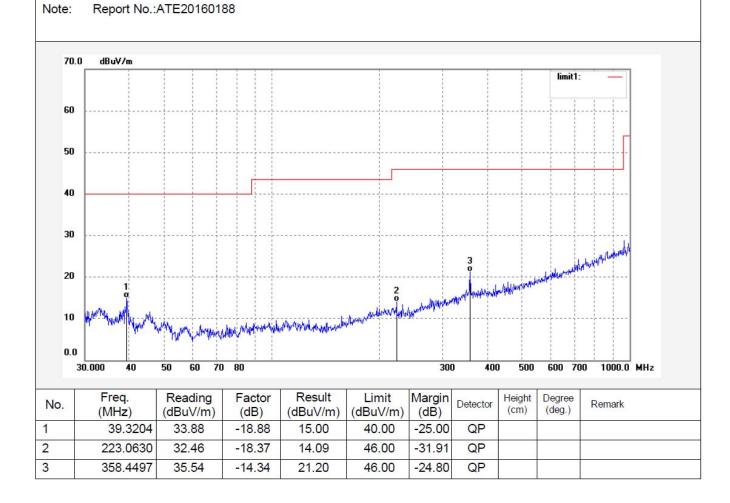
Mode: TX 2425MHz Model: Sense-TC03 Manufacturer: Sense

lanufacturer: Sense

Polarization: Horizontal Power Source: DC 3V Date: 2016/02/19 Time: 15:24:40

Engineer Signature: Ricky

Distance: 3m





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Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: Ricky 2016 #33

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Equipment Position Monitor Label

Mode: TX 2425MHz Model: Sense-TC03 Manufacturer: Sense

Polarization: Vertical Power Source: DC 3V

Date: 2016/02/19 Time: 15:23:22

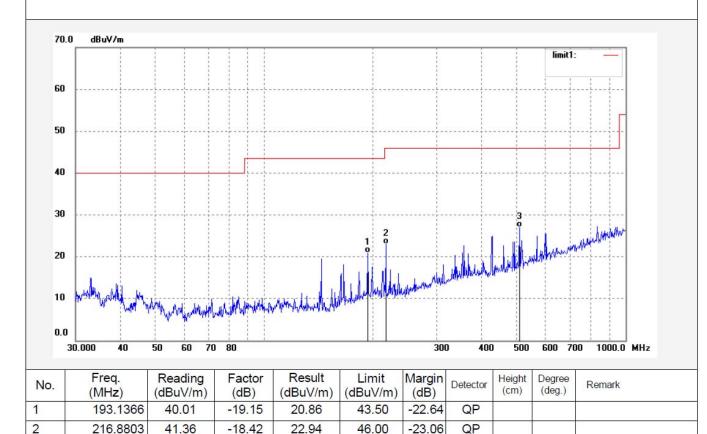
Engineer Signature: Ricky

Distance: 3m

QP

-19.04

Note: Report No.:ATE20160188



46.00

26.96

-12.02

3

509.3559

38.98





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Distance: 3m

Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Report No.: ATE20160188

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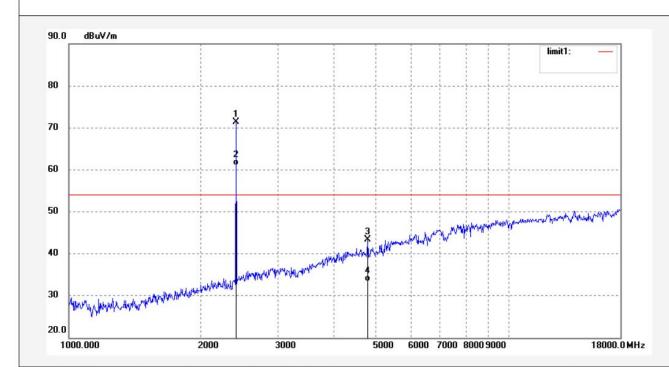
Job No.: Ricky 2016 #24 Polarization: Vertical Standard: FCC Class B 3M Radiated Power Source: DC 3V

Test item: Radiation Test Date: 2016/02/19
Temp.( C)/Hum.(%) 25 C / 55 % Time: 14:59:45

EUT: Equipment Position Monitor Label Engineer Signature: Ricky

Mode: TX 2425MHz
Model: Sense-TC03
Manufacturer: Sense

Note: Report No.:ATE20160188



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2425.000	78.86	-7.50	71.36	114.00	-42.64	peak			
2	2425.000	68.45	-7.50	60.95	94.00	-33.05	AVG			
3	4850.000	43.21	0.17	43.38	74.00	-30.62	peak			
4	4850.000	33.24	0.17	33.41	54.00	-20.59	AVG			



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Report No.: ATE20160188

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Job No.: Ricky 2016 #23 Polarization: Vertical Standard: FCC Class B 3M Radiated Power Source: DC 3V

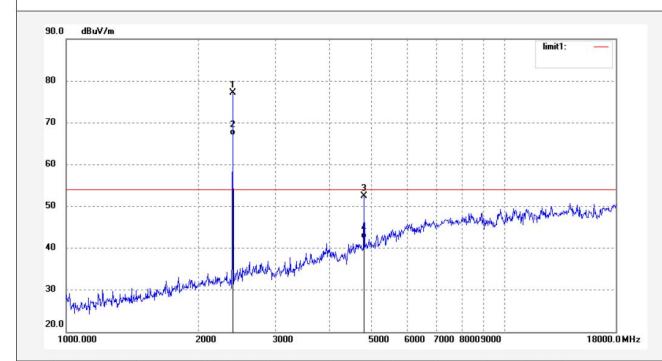
Test item: Radiation Test Date: 2016/02/19
Temp.( C)/Hum.(%) 25 C / 55 %
Time: 14:57:11

EUT: Equipment Position Monitor Label Engineer Signature: Ricky

Mode: TX 2425MHz Distance: 3m Model: Sense-TC03

Note: Report No.:ATE20160188

Manufacturer: Sense



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2425.000	84.56	-7.50	77.06	114.00	-36.94	peak			
2	2425.000	74.54	-7.50	67.04	94.00	-26.96	AVG			
3	4850.000	52.21	0.17	52.38	74.00	-21.62	peak			
4	4850.000	42.08	0.17	42.25	54.00	-11.75	AVG			



# 8. ANTENNA REQUIREMENT

#### 8.1.The Requirement

According to Section 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.

#### 8.2. Antenna Construction

Device is equipped with Integral antenna, which isn't displaced by other antenna. The Antenna gain of EUT is 0dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.

