

Report No.: ATE20180017

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APPLICATION CERTIFICATION On Behalf of Fine Offset Electronics Co., Ltd.

Temperature sensor

Model No.: WH53

FCC ID: WA5WH53

Prepared for : Fine Offset Electronics Co., Ltd.

Address : 2/F., Building no.3, Ping Shan Minqi Industrial Park, Xili

Town, Nanshan District, Shenzhen City, China.

Prepared by : Shenzhen Accurate Technology Co., Ltd.

Address : 1/F., Building A, Changyuan New Material Port, Science

& Industry Park, Nanshan District, Shenzhen, Guangdong,

P.R. China

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

Report Number : ATE20180017

Date of Test : Jan. 04--Jan. 09, 2018

Date of Report : Jan. 10, 2018

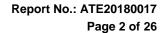




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Test Report Certification

Applicant& Fine Offset Electronics Co., Ltd

address 2/F., Building no.3, Ping Shan Mingi Industrial Park, Xili Town,

Nanshan District, Shenzhen City, China.

Manufacturer&

Fine Offset Electronics Co., Ltd

2/F., Building no.3, Ping Shan Mingi Industrial Park, Xili Town, address

Nanshan District, Shenzhen City, China.

Product Temperature sensor

Model No. **WH53**

Trade name n.a

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.231(e) ANSI C63.10: 2013

The device described above is tested by SHENZHEN 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 15.231(e). The measurement results are contained in this test report and SHENZHEN 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 SHENZHEN ACCURATE TECHNOLOGY CO., LTD.

Jan. 04, 2018-Jan. 09, 2018
Jan. 10, 2018
(Tin Stang, Engineer)
(Sean Liu, Manager)



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1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT : Temperature sensor

Model Number : WH53

Power Supply : DC 1.5V (Powered by battery)

Modulation: : ASK

Operation Frequency : 433.92MHz

Antenna type : Integral Antenna

Antenna gain(max) : 2.5dBi

Applicant : Fine Offset Electronics Co., Ltd.

Address : 2/F., Building no.3, Ping Shan Minqi Industrial Park, Xili

Town, Nanshan District, Shenzhen City, China.

Manufacturer : Fine Offset Electronics Co., Ltd

Address : 2/F., Building no.3, Ping Shan Minqi Industrial Park, Xili

: Jan. 04, 2018-Jan. 09, 2018

Town, Nanshan District, Shenzhen City, China.

Date of sample

received

Date of Test : Jan. 10, 2018



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1.2.Description of Test Facility

EMC Lab : Recognition of accreditation by Federal Communications

Commission (FCC)

The Designation Number is CN1189 The Registration Number is 708358

Listed by Innovation, Science and Economic Development

Canada (ISEDC)

The Registration Number is 5077A-2

Accredited by China National Accreditation Service for

Conformity Assessment (CNAS)

The Registration Number is CNAS L3193

Accredited by American Association for Laboratory

Accreditation (A2LA)

The Certificate Number is 4297.01

Name of Firm : Shenzhen Accurate Technology Co., Ltd.

Site Location : 1/F., Building A, Changyuan New Material Port, Science

& Industry Park, Nanshan District, Shenzhen, Guangdong,

P.R. China

1.3. 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)

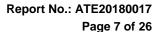




2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Туре	S/N	Calibrated dates	Calibrated until
EMI Test Receiver Rohde&Schwarz		ESCS30	100307	Jan. 06, 2018	Jan. 05, 2019
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 06, 2018	Jan. 05, 2019
Spectrum Analyzer	Rohde&Schwarz	FSV-40	101495	Jan. 06, 2018	Jan. 05, 2019
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 06, 2018	Jan. 05, 2019
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 06, 2018	Jan. 05, 2019
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 06, 2018	Jan. 05, 2019
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 06, 2018	Jan. 05, 2019
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 06, 2018	Jan. 05, 2019
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 06, 2018	Jan. 05, 2019
Open Switch and Control Unit	Rohde&Schwarz	OSP120 + OSP-B157	101244 + 100866	Jan. 06, 2018	Jan. 05, 2019
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 06, 2018	Jan. 05, 2019
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 06, 2018	Jan. 05, 2019
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 06, 2018	Jan. 05, 2019
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 06, 2018	Jan. 05, 2019





3. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
Section 15.207	Conducted Emission	N/A
Section 15.231(e)	Radiated Emission	Compliant
Section 15.231(c)	20dB Bandwidth	Compliant
Section 15.231(e)	Release Time Measurement	Compliant
Section 15.203	Antenna Requirement	Compliant

The product is a automatic operated Wireless weather station(Transmitter).

Note: The power supply mode of the EUT is DC 1.5V, According to the FCC standard requirements, conducted emission is not applicable.

All normal using modes of the normal function were tested but only the worst test data of the worst mode is recorded by this report.





4. THE FIELD STRENGTH OF RADIATION EMISSION

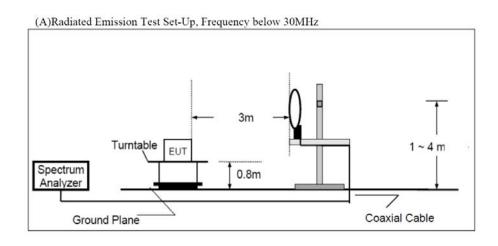
4.1.Block Diagram of Test Setup

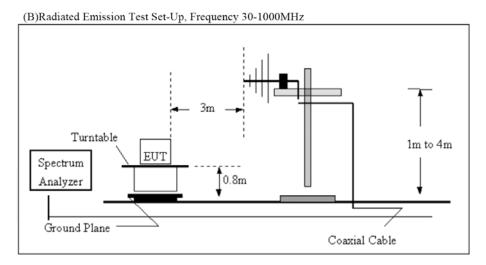
4.1.1.Block diagram of connection between the EUT and simulators



(EUT: Temperature sensor)

4.1.2.Semi-Anechoic Chamber Test Setup Diagram

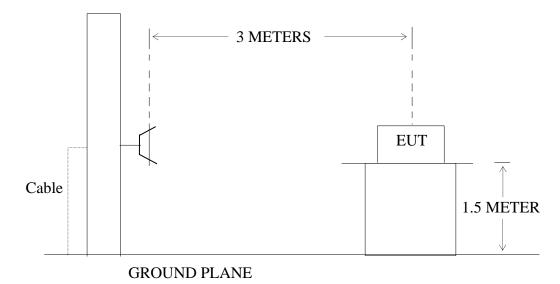








(C) Radiated Emission Test Set-Up, Frequency above 1GHz



(EUT: Temperature sensor)

- 4.2. The Field Strength of Radiation Emission Measurement Limits
 - 4.2.1. Radiation Emission Measurement Limits According to FCC Part 15 Section 15.231(e)

Funda- mental fre- quency (MHz)	Field strength of fun- damental (microvolts/ meter)	Field strength of spu- rious emission (microvolts/meter)
40.66– 40.70. 70–130 130–174 174–260 260–470 Above 470	1,000	100 50 50 to 150 ¹ 150 150 to 500 ¹ 500

¹ Linear interpolations.

4.2.2. Restricted Band Radiation Emission Measurement Limits According to FCC part 15 Section 15.205 and Section15.209.





4.3.Configuration of EUT on Measurement

The following equipment is 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.

4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT and simulator as shown as Section 4.1.
- 4.4.2. Turn on the power of all equipment.
- 4.4.3. Let the EUT work in TX mode measure it.

4.5.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 bandwidth of test receiver is set at 120 kHz in 30-1000 MHz, and 1 MHz in 1000-5000 MHz.

The frequency range from 9 kHz to 5000 MHz is checked.

The test frequency is from 9KHz to 5000 MHz, The radiation emission from 9KHz-30MHz is not reported, because the levels are too low against the limit.



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4.6. The Field Strength of Radiation Emission Measurement Results PASS.

Date of Test:	Jan. 08-09, 2018	Temperature:	25°C
EUT:	Temperature sensor	Humidity:	50%
Model No.:	WH53	Power Supply:	DC 1.5V
Test Mode:	TX	Test Engineer:	Frank

Frequency	Reading	Factor	Average	Result(c	dBμV/m)	Limit(dBμV/m)		Margi	n(dB)	Polarization
(MHz)	(dBµV/m)	Corr.	Factor							
	PEAK	(dB)	(dB)	AV	PEAK	AV	PEAK	AV	PEAK	
433.92	107.02	-17.78	-28.78	60.46	89.24	72.87	92.87	12.41	3.63	
867.84	48.75	-7.98	-28.78	/	40.77	52.87	72.87	/	32.10	Horizontal
4339.23	42.07	1.71	-28.78	/	43.78	52.87	72.87	/	29.09	
433.92	96.02	-17.78	-28.78	49.46	78.24	72.87	92.87	23.41	14.63	
867.84	43.24	-7.98	-28.78	/	35.26	52.87	72.87	/	37.61	Vertical
4773.12	41.07	4.41	-28.78	/	45.48	52.87	72.87	/	28.92	

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. "/" indicates that this value is less than the limit, and does not have to be recorded.
- 3. 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

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Amplifier Gain

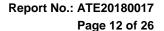
- 4. FCC Limit for Average Measurement = $16.67*(433.92)-2833.33 = 4400.1164 \,\mu\text{V/m} = 72.87 \,d\text{B}\mu\text{V/m}$
- 5. The spectral diagrams in appendix I display the measurement of peak values.
- 6. Average value= PK value + Average Factor (duty factor)
- 7. If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.
- 8. The EUT is tested radiation emission in three axes(X,Y,Z). The worst emissions are reported in three axes.
- 9. Pulse Desensitization Correction Factor

Pulse Width (PW) = 0.52ms;

2/PW = 2/0.52ms = 3.846kHz;

RBW (100 kHz) > 2/PW (3.846 kHz),

Therefore PDCF is not needed





5. 20DB OCCUPIED BANDWIDTH

5.1.Block Diagram of Test Setup



(EUT: Temperature sensor)

5.2. The Bandwidth of Emission Limit According To FCC Part 15 Section

15.231(c)

The bandwidth of emission shall be no wider than 0.25% of the center frequency. Therefore, the bandwidth of the emission limit is $433.92 \text{ MHz} \times 0.25\% = 1084.8 \text{ kHz}$. Bandwidth is determined at the two points 20 dB down from the top of modulated carrier.

5.3.EUT Configuration on Measurement

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

5.4. Operating Condition of EUT

- 5.4.1. Setup the EUT and simulator as shown as Section 5.1.
- 5.4.2. Turn on the power of all equipment.
- 5.4.3.Let the EUT work in TX mode measure it.

5.5.Test Procedure

- 5.5.1.Set SPA Center Frequency = Fundamental frequency, RBW = 10 kHz, VBW = 30 kHz, Span = 1MHz.
- 5.5.2.Set SPA Max hold, Mark peak, -20 dB.





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5.6.Measurement Result

The EUT does meet the FCC requirement.

-20 dB bandwidth = 56 kHz < 433.92 MHz * 0.25% = 1084.8 KHz.

The spectral diagrams in appendix I.

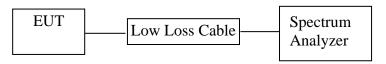




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6. RELEASE TIME MEASUREMENT

6.1.Block Diagram of Test Setup



(EUT: Temperature sensor)

6.2. Release Time Measurement According To FCC Part 15 Section 15.231(e)

Section 15.231(e) devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

6.3.EUT Configuration on Measurement

The following equipment are installed on Release Time 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 mode measure it.

6.5. Test Procedure

- 6.5.1. Set SPA Center Frequency = Fundamental frequency, RBW = 100 kHz, VBW = 300 kHz, Span = 0 Hz.
- 6.5.2.Set EUT as normal operation.
- 6.5.3.Set SPA View. Delta Mark time.





6.6. Measurement Result

Test result: pass

Period Time = 48s Duration time = 0.104s Silent time =48-0.104s=47.896>10s Silent time =47.896s>30*0.104s=3.12s

The spectral diagrams in appendix I.

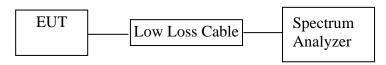




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7. AVERAGE FACTOR MEASUREMENT

7.1.Block Diagram of Test Setup



(EUT: Temperature sensor)

7.2. Average factor Measurement according to ANSI C63.10-2013

ANSI C63.10-2013 Section 7.5 Unless otherwise specified, when the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 s (100 ms). In cases where the pulse train exceeds 0.1 s, the measured field strength shall be determined during a 0.1 s interval.64 The following procedure is an example of how the average value may be determined. The average field strength may be found by measuring the peak pulse amplitude (in log equivalent units) and determining the duty cycle correction factor (in dB) associated with the pulse modulation as shown in Equation (10):

Average factor in $dB = 20 \log (duty \text{ cycle})$

7.3.EUT Configuration on Measurement

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

7.4. Operating Condition of EUT

- 7.4.1. Setup the EUT and simulator as shown as Section 7.1.
- 7.4.2. Turn on the power of all equipment.
- 7.4.3.Let the EUT work in TX mode measure it.





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7.5. Test Procedure

- 7.5.1. The time period over which the duty cycle is measured is 100 milliseconds, or the repetition cycle, whichever is a shorter time frame. The worst case (highest percentage on) duty cycle is used for the calculation.
- 7.5.2.Set SPA Center Frequency = Fundamental frequency, RBW = 100 kHz, VBW = 300 kHz, Span = 0 Hz.
- 7.5.3.Set EUT as normal operation.
- 7.5.4.Set SPA View. Delta Mark time.

7.6. Measurement Result

The duty cycle is simply the on time divided by the period:

Effective period of the cycle =0.52*7ms=3.64 ms

DC = 3.64 ms/100 ms = 0.0364%

Therefore, the average factor is found by 20log0.0364= -28.78dB

The spectral diagrams in appendix I.



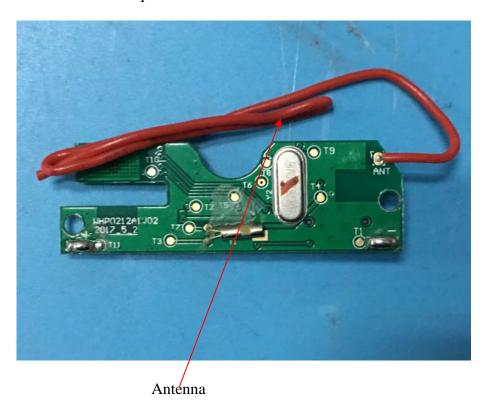
8. ANTENNA REQUIREMENT

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 permanent attached antenna, which isn't displaced by other antenna. The Max Antenna gain of EUT is 2.5dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.







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APPENDIX I

(Test Curves)



Site: 1# Chamber

Tel:+86-0755-26503290

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: Horizontal Power Source: DC 1.5V

Date: 18/01/09/ Time: 10/17/30 Engineer Signature: Distance: 3m

Job No.: frank2018 #25 Standard: FCC Class B 3M Radiated

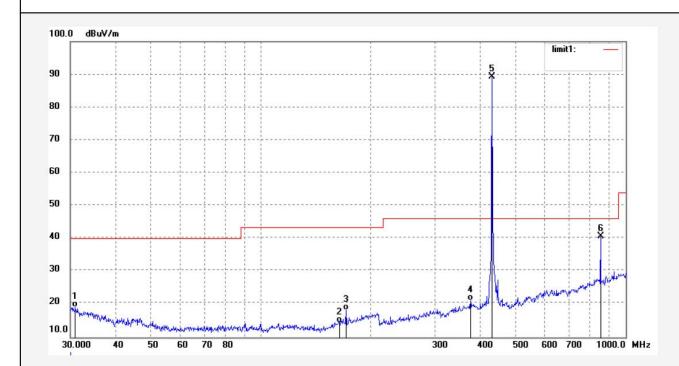
Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Temperature sensor
Mode: TX 433.92MHz

Model: WH53

Manufacturer: Fine Offset Electronics Co.,Ltd

Note: Report NO.:ATE20180017



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	30.9638	39.53	-20.44	19.09	40.00	-20.91	QP	200	128	
2	163.1623	41.09	-26.73	14.36	43.50	-29.14	QP	200	38	
3	171.3890	44.38	-26.13	18.25	43.50	-25.25	QP	200	44	
4	375.2022	39.84	-18.69	21.15	46.00	-24.85	QP	200	120	
5	433.9200	107.02	-17.78	89.24			peak	150	39	
6	867.8447	48.75	-7.98	40.77			peak	158	137	





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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

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

Job No.: frank2018 #24

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 % EUT: Temperature sensor

TX 433.92MHz Mode:

Model: **WH53**

Manufacturer: Fine Offset Electronics Co.,Ltd

Note: Report NO.:ATE20180017

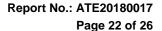


Power Source: DC 1.5V Date: 18/01/09/

Time: 10/09/38 Engineer Signature: Distance: 3m

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80			 				111	
70								
60								
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No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	33.9256	40.84	-21.18	19.66	40.00	-20.34	QP	100	54	
2	44.6222	39.67	-24.35	15.32	40.00	-24.68	QP	100	155	
3	204.3052	40.91	-24.18	16.73	43.50	-26.77	QP	100	123	
4	296.5023	40.41	-21.36	19.05	46.00	-26.95	QP	100	138	
5	433.9203	96.02	-17.78	78.24			peak	100	93	
6	867.8447	43.24	-7.98	35.26			peak	100	238	



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

Fax:+86-0755-26503396





ACCURATE TECHNOLOGY CO., LTD.

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

Polarization: Horizontal Power Source: DC 1.5V

Date: 18/01/08/
Time: 14/31/32
Engineer Signature:
Distance: 3m

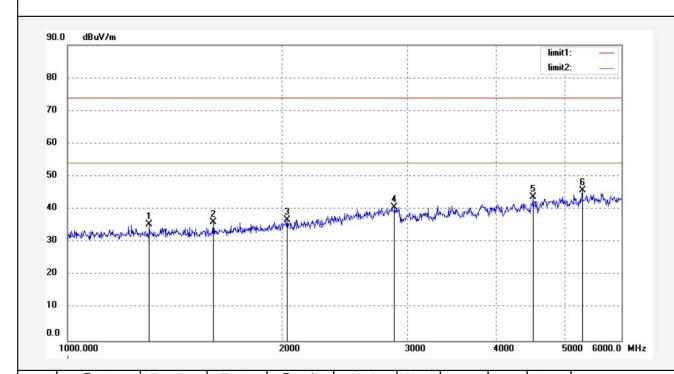
Job No.: frank2018 #14
Standard: FCC PK
Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 % EUT: Temperature sensor Mode: TX 433.92MHz

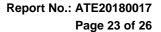
Model: WH53

Manufacturer: Fine Offset Electronics Co.,Ltd

Note: Report NO.:ATE20180017



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1301.763	43.83	-8.40	35.43	72.87	-37.44	peak	152	148	
2	1735.681	43.85	-7.68	36.17	72.87	-36.70	peak	163	271	
3	2034.428	42.85	-5.96	36.89	74.00	-37.11	peak	165	238	
4	2880.925	42.43	-1.82	40.61	74.00	-33.39	peak	156	44	
5	4339.230	42.07	1.71	43.78	72.87	-29.09	peak	167	185	
6	5288.736	41.60	4.20	45.80	74.00	-28.20	peak	156	172	





ATC[®]

ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: frank2018 #13
Standard: FCC PK
Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Temperature sensor
Mode: TX 433.92MHz

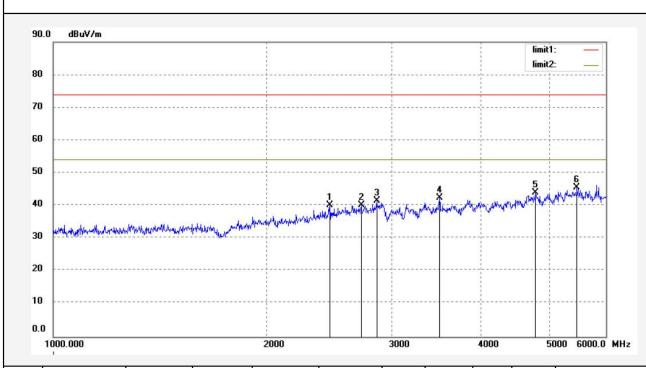
Model: WH53

Manufacturer: Fine Offset Electronics Co.,Ltd

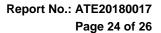
Note: Report NO.:ATE20180017

Polarization: Vertical
Power Source: DC 1.5V

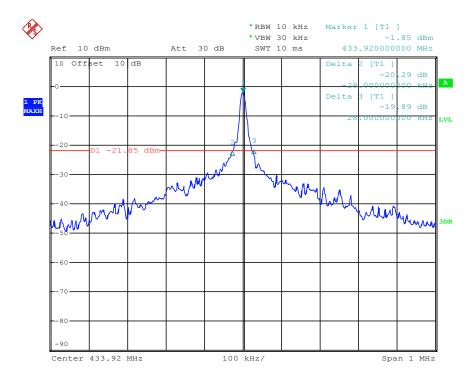
Date: 18/01/08/
Time: 14/30/27
Engineer Signature:
Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2453.909	44.09	-4.02	40.07	74.00	-33.93	peak	150	338	
2	2714.551	42.83	-2.70	40.13	74.00	-33.87	peak	160	32	
3	2855.076	43.42	-1.97	41.45	74.00	-32.55	peak	150	189	
4	3471.223	42.27	0.25	42.52	72.87	-30.35	peak	163	248	
5	4773.120	41.03	2.92	43.95	72.87	-28.92	peak	200	137	
6	5463.150	41.07	4.41	45.48	74.00	-28.52	peak	156	41	

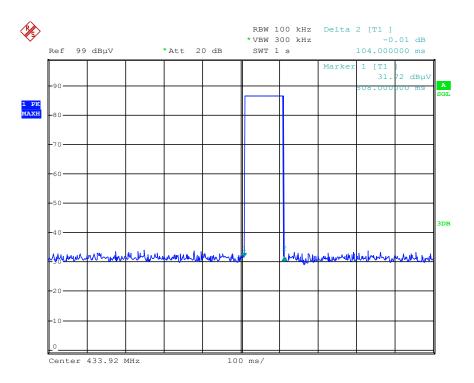






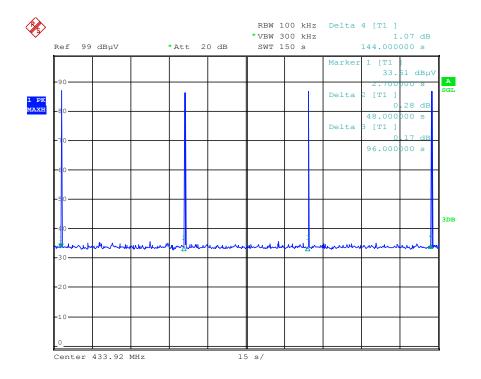
Date: 9.JAN.2018 15:02:28





Date: 9.JAN.2018 15:22:05

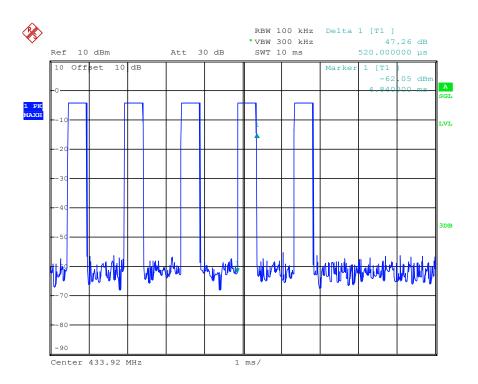
The duration of a transmission Time = 0.104s



Date: 9.JAN.2018 15:21:08

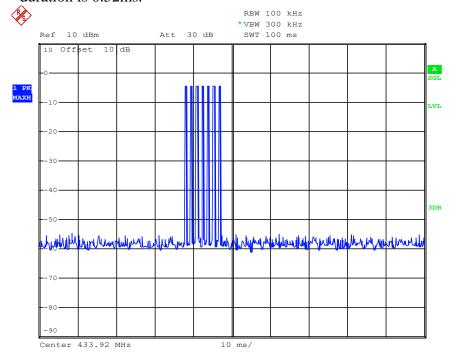
The period between transmissions =48s





Date: 9.JAN.2018 14:54:41

The graph shows the duration of 'on' signal. From marker 1 to Delta 1, duration is 0.52ms.



Date: 9.JAN.2018 14:53:24