

TEST REPORT

FCC ID: 2AG86-SS909ZB

Product: Temperature Sensor

Model No.: SAU2DA1

Additional Model No.: SS909ZB, HTS10ZB, SAU2DH1

Trade Mark: N/A

Report No.: TCT171017E033

Issued Date: Oct. 20, 2017

Issued for:

Salus North America, Inc.
850 Main Street, Redwood City, California 94063

Issued By:

Shenzhen Tongce Testing Lab.

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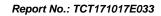




TABLE OF CONTENTS

1. Test Certification				
2. Test Result Summary	((0))	(0)		4
3. EUT Description				
4. Genera Information				6
4.1. Test environment and mode				6
4.2. Description of Support Units				
5. Facilities and Accreditations	(6)	(6)		7
5.1. Facilities				
5.2. Location				
5.3. Measurement Uncertainty	(30)		<u>(C)</u>	7
6. Test Results and Measuremen				
6.1. Antenna requirement				8
6.2. Conducted Emission				
6.3. Conducted Output Power				10
6.4. Emission Bandwidth				
6.5. Power Spectral Density	(,O')		(,C)	16
6.6. Test Specification				16
6.7. Conducted Band Edge and Spurious	s Emission Measure	ment		19
6.8. Radiated Spurious Emission Measu	rement	<u>(,c))</u>		22
Appendix A: Photographs of Test				
Appendix B: Photographs of EUT				



1. Test Certification

Report No.: TCT171017E033

Product:	Temperature Sensor				
Model No.:	SAU2DA1				
Additional Model No.:	SS909ZB, HTS10ZB, SAU2DH1				
Trade Mark:	N/A				
Applicant:	Salus North America, Inc.				
Address:	850 Main Street, Redwood City, California 94063				
Manufacturer:	Salus North America, Inc.	C			
Address:	850 Main Street, Redwood City, California 94063				
Factory 1:	Computime Electronics(shenzhen) Company Limited				
Address:	Yuekenguangyu Industrial Park, kangqiao Road 88#, Danzhutou Community, Nanwan Street Office, Longgang District, Shenzhen 518114, China				
Factory 2:	Asia Electronic Dongguan				
Address:	Zhen'an Science and Technology Industrial Park, Chang'an Dongguan Guangdong, PRC, China				
Date of Test:	July 03 - July 05, 2017				
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v04	Ó			

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

	0 11			
Tested By:	Beny Wero	Date:	July 05, 2017	
Reviewed By:	Beryl Zhao	Date:	Oct. 20, 2017	
Approved By:	Tomsin	Date:	Oct. 20, 2017	(



2. Test Result Summary

Requirement			Result		
Antenna requirement			PASS	(6)	
AC Power Line Conducted Emission	cted §15.207		N/A		
Conducted Peak Output Power	§15.247 (b)(3) §2.1046		PASS		
6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	(5)	PASS	60	
Power Spectral Density	§15.247 (e)		PASS		
Band Edge	1§5.247(d) §2.1051, §2.1057		PASS		
Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	(5)	PASS		

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

Report No.: TCT171017E033



CENTRE TECHNOLOGY Report No.: TCT171017E033

3. EUT Description

Product:	Temperature Sensor			
Model No.:	SAU2DA1			
Additional Model No.:	SS909ZB, HTS10ZB, SAU2DH1			
Trade Mark:	N/A			
Operation Frequency:	2405MHz~2480MHz			
Channel Separation:	5MHz			
Number of Channel:	16			
Modulation Technology:	O-QPSK			
Antenna Type:	Ceramics Antenna			
Antenna Gain:	2.0dBi(declare by Applicant)			
Power Supply:	DC 3V 1*CR2 battery			
Remark:	All above models are identical in the same PCB layout, interior structure and electrical circuits. The only difference is model name for commercial purpose.			

Operation Frequency each of channel

operation requestey each of charmer							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2405MHz	5	2425MHz	9	2445MHz	13	2465MHz
2	2410MHz	6	2430MHz	10	2450MHz	14	2470MHz
3	2415MHz	7	2435MHz	11	2455MHz	15	2475MHz
4 2420MHz 8 2440MHz 12 2460MHz 16 2480 MHz							
Remark:	Remark: Channel 1, 8 & 16 have been tested.						



Genera Information

Report No.: TCT171017E033

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) with Fully-charged battery.

The sample was placed (0.1m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1	/	/	1	

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

Page 6 of 36



5. Facilities and Accreditations

5.1. Facilities

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

• FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District,

Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU	
9	Conducted Emission	±2.56dB	
2	RF power, conducted	±0.12dB	
3	Spurious emissions, conducted	±0.11dB	
4	All emissions, radiated(<1G)	±3.92dB	
5	All emissions, radiated(>1G)	±4.28dB	
6	Temperature	±0.1°C	
7	Humidity	±1.0%	

Report No.: TCT171017E033



6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

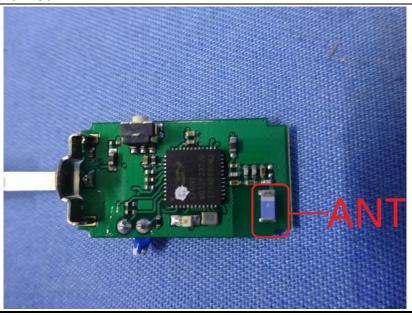
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The antenna is ceramics antenna which permanently attached, and the best case gain of the antenna is 2.0dBi.





6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207	E C		
Test Method:	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz	<u>(~)</u>	(c ¹)		
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=auto		
Limits:	Frequency range (MHz) Limit (dBuV) 0.15-0.5 66 to 56* 56 to 46 0.5-5 56 46 5-30 60 50				
Test Setup:	Adapter Filter AC power E.U.T Adapter Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network				
Test Mode:	Test table height=0.8m Charging + Transmittin	g Mode			
Test Procedure:	 The E.U.T is connecting impedance stabilized provides a 50 ohm/5 measuring equipment. The peripheral device power through a LI coupling impedance refer to the block photographs). Both sides of A.C. conducted interferent emission, the relative the interface cables ANSI C63.10: 2013 	ation network 50uH coupling in the ses are also conn SN that provide with 50ohm tendingram of the line are checknee. In order to fee positions of equal to the second control of the coupling of the second control of the positions of equal to the coupling of the coupling	(L.I.S.N.). This impedance for the sected to the main in a 500hm/50uH in a 500		
Test Result:	N/A; The EUT is powered by battery, so the item is not applicable.				



6.3. Conducted Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074
Limit:	30dBm
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 x RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level.
Test Result:	PASS

6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

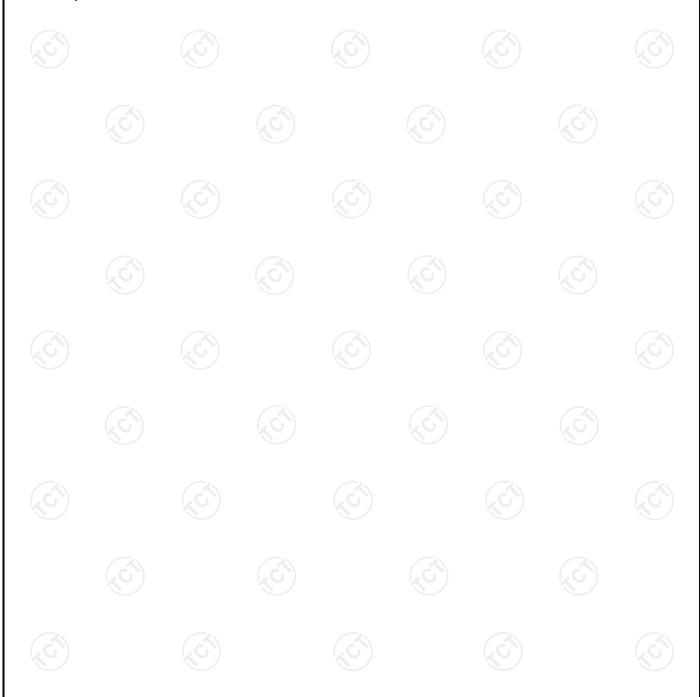
Page 10 of 36



6.3.3. Test Data

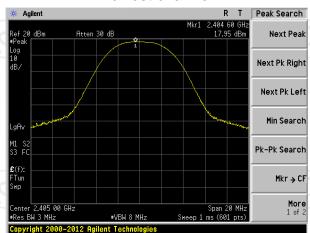
Test channel	PK Conducted Output Power (dBm)	Limit (dBm)	Result	
Lowest	17.95	30.00	PASS	
Middle	17.61	30.00	PASS	
Highest	17.36	30.00	PASS	

Test plots as follows:

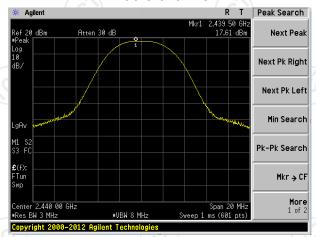




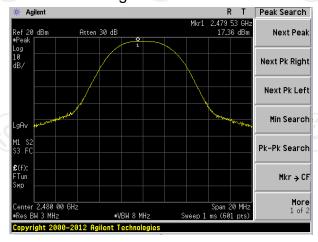
Lowest channel



Middle channel



Highest channel







6.4. Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)				
Test Method:	KDB558074				
Limit:	>500kHz				
Test Setup:	Spectrum Analyzer EUT				
Test Mode:	Refer to item 4.1				
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report. 				
Test Result:	PASS				

6.4.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018			
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018			
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.4.3. Test data

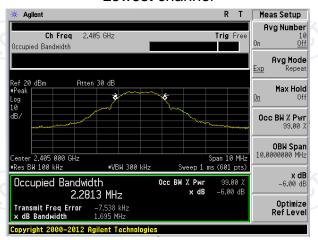
Toot shannal	6dB Emission I		
Test channel	O-QPSK mode	Limit	Result
Lowest	1695	>500k	0
Middle	1730	>500k	PASS
Highest	1783	>500k	

ows:			

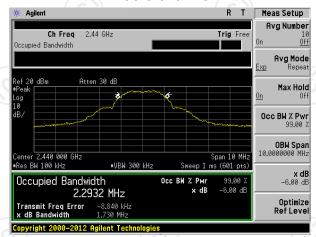




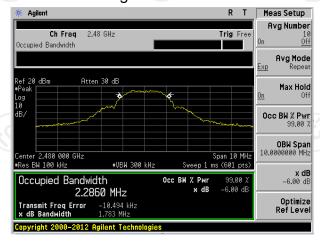
Lowest channel



Middle channel



Highest channel





6.5. Power Spectral Density

6.6. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)				
Test Method:	KDB558074				
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.				
Test Setup:	EUT.				
	Spectrum Analyzer				
Test Mode:	Refer to item 4.1				
Test Procedure:	 The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. 				
Test Result:	PASS				

6.6.1. Test Instruments

-								
RF Test Room								
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018				
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018				
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018				

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.6.2. Test data

Report No.: TCT171017E033

Test channel	Power Spectral D	ensity (dBm/3kl	Hz)
rest channel	O-QPSK mode	Limit	Result
Lowest	2.25	8 dBm/3kHz	180
Middle	1.11	8 dBm/3kHz	PASS
Highest	1.71	8 dBm/3kHz	(3)

Test plots as follows:

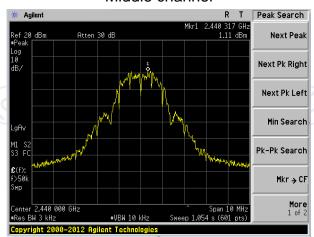




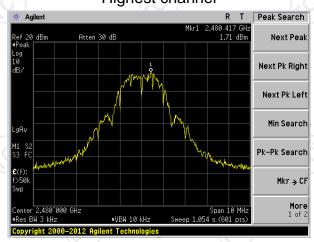
Lowest channel

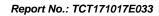


Middle channel



Highest channel







6.7. Conducted Band Edge and Spurious Emission Measurement

6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	KDB558074				
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and 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).				
Test Setup:	Structure Analysis EUT				
Test Mode:	Refer to item 4.1				
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 				
Test Result:	PASS				

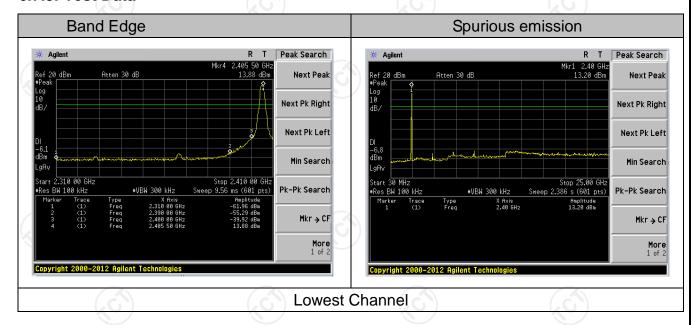


6.7.2. Test Instruments

RF Test Room								
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018				
Spectrum Analyzer	ROHDE&SCH WARZ	FSQ	200061	Sep. 27, 2018				
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018				
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018				

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.7.3. Test Data



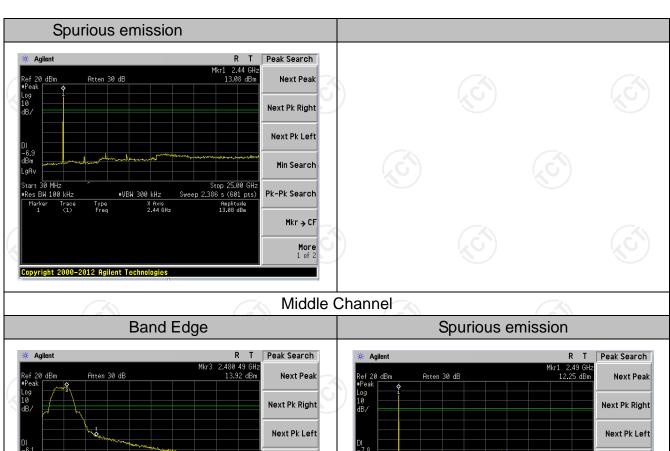


tart 2.478 00 GHz Res BW 100 kHz

Copyright 2000-2012 Agilent Technologies

#VBW 300 kHz

Report No.: TCT171017E033



Highest Channel

Start 30 MHz #Res BW 100 kHz

Trace (1)

Copyright 2000-2012 Agilent Technologies

Min Search

Mkr → CF

More 1 of 2

Pk-Pk Search

Min Search

Mkr → CF

More 1 of 2

Pk-Pk Search

Stop 25.00 GHz Sweep 2.386 s (601 pts)



6.8. Radiated Spurious Emission Measurement

6.8.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209						
Test Method:	ANSI C63.10: 2013						
Frequency Range:	9 kHz to 25 (9 kHz to 25 GHz					
Measurement Distance:	3 m		6)		1/6	
Antenna Polarization:	Horizontal &	Vertical					
Operation mode:	Refer to item	1 4.1			C)		ĆĆ
	Frequency 9kHz- 150kHz 150kHz-	Detector Quasi-pea Quasi-pea	ak	RBW 200Hz 9kHz	VBW 1kHz 30kHz	Quas	Remark si-peak Value si-peak Value
Receiver Setup:	30MHz 30MHz-1GHz	Quasi-pea Peak	ak	120KHz 1MHz	300KHz 3MHz		si-peak Value eak Value
	Above 1GHz	Peak		1MHz	10Hz		erage Value
	Frequency		(Field Strength (microvolts/meter)		Measurement Distance (meters)	
	0.009-0.490			2400/F(KHz)		300	
	0.490-1.705		24000/F(KHz)		30		
	1.705-30 30-88		30 100		30		
	88-216		150		3		
Limit:	216-960		200		3		
	Above 960		500		7		3
	(,0,)		((0))			(XC	
			eld Strength crovolts/meter)		Measure Distan (mete	ce	Detector
	Above 1GHz		500		3	(,c	Average
				000 Nelow 30	3 MHz		Peak
	For radiated emissions below 30MHz						
	Distance = 3m Computer Pre -Amplifier						
Test setup:	EUT						
	30MHz to 10		Groun	d Plane			-

「通测检测 Report No.: TCT171017E033 Antenna Tower Search Antenna EUT 4m RF Test Receiver Turn 0.8m Above 1GHz 1. For the radiated emission test below 1GHz: The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: **Test Procedure:** Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of

significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission

and staying aimed at the emission source for receiving the maximum signal. The final

	TESTING CENTRE TECHNOLOGY	Report No.: TCT171017E0
		measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB
		 lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz; VBW RBW; Sweep = auto; Detector function = peak; Trace =
		max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test mod	le:	Refer to section 4.1 for details
Test resu	ılts:	PASS (C)







6.8.2. Test Instruments

	Radiated Em	ission Test Si	te (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 27, 2018
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Sep. 27, 2018
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBH 9170	582	Jun. 07, 2018
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 27, 2018
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 27, 2018
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



6.8.3. Test Data

Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
37.95	26.68	12.30	0.64	30.05	9.57	40.00	-30.43	Vertical
88.96	25.88	10.60	1.10	29.75	7.83	43.50	-35.67	Vertical
197.89	25.89	10.20	1.83	29.21	8.71	43.50	-34.79	Vertical
352.94	25.07	14.56	2.64	29.72	12.55	46.00	-33.45	Vertical
616.37	25.22	19.37	3.79	29.28	19.10	46.00	-26.90	Vertical
942.13	26.65	22.45	5.01	29.10	25.01	46.00	-20.99	Vertical
40.42	26.43	12.27	0.66	30.04	9.32	40.00	-30.68	Horizontal
93.44	26.27	10.98	1.14	29.73	8.66	43.50	-34.84	Horizontal
213.76	26.00	10.69	1.92	29.34	9.27	43.50	-34.23	Horizontal
368.11	26.18	14.85	2.71	29.65	14.09	46.00	-31.91	Horizontal
645.12	26.18	19.52	3.89	29.25	20.34	46.00	-25.66	Horizontal
903.31	26.63	22.22	4.87	29.10	24.62	46.00	-21.38	Horizontal

Note:

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



Report No.: TCT171017E033



Band Edge

Report No.: TCT171017E033

Test channel:	Lowest channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	35.89	27.91	5.30	24.64	44.46	74.00	-29.54	Horizontal
2390.00	36.41	27.59	5.38	24.71	44.67	74.00	-29.33	Horizontal
2310.00	35.87	27.91	5.30	24.64	44.44	74.00	-29.56	Vertical
2390.00	35.49	27.59	5.38	24.71	43.75	74.00	-30.25	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	26.39	27.91	5.30	24.64	34.96	54.00	-19.04	Horizontal
2390.00	27.12	27.59	5.38	24.71	35.38	54.00	-18.62	Horizontal
2310.00	26.26	27.91	5.30	24.64	34.83	54.00	-19.17	Vertical
2390.00	26.34	27.59	5.38	24.71	34.60	54.00	-19.40	Vertical

Test channel: Highest channel

Peak value:

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Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	52.68	27.53	5.47	24.80	60.88	74.00	-13.12	Horizontal
2500.00	38.21	27.55	5.49	24.86	46.39	74.00	-27.61	Horizontal
2483.50	46.69	27.53	5.47	24.80	54.89	74.00	-19.11	Vertical
2500.00	38.70	27.55	5.49	24.86	46.88	74.00	-27.12	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	44.87	27.53	5.47	24.80	53.07	54.00	-0.93	Horizontal
2500.00	26.52	27.55	5.49	24.86	34.70	54.00	-19.30	Horizontal
2483.50	41.37	27.53	5.47	24.80	49.57	54.00	-4.43	Vertical
2500.00	27.91	27.55	5.49	24.86	36.09	54.00	-17.91	Vertical

Note:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Page 27 of 36



Above 1GHz

Test channel: Lowest

Peak value:

/								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4810.00	40.79	31.78	8.60	37.66	43.51	74.00	-30.49	Vertical
7215.00	33.89	36.15	11.66	35.69	46.01	74.00	-27.99	Vertical
9620.00	28.58	38.01	14.14	34.91	45.82	74.00	-28.18	Vertical
12025.00	27.40	39.08	15.03	36.13	45.38	74.00	-28.62	Vertical
14430.00	26.88	42.46	17.17	36.01	50.50	74.00	-23.50	Vertical
4810.00	46.93	31.78	8.60	37.66	49.65	74.00	-24.35	Horizontal
7215.00	41.72	36.15	11.66	35.69	53.84	74.00	-20.16	Horizontal
9620.00	27.75	38.01	14.14	34.91	44.99	74.00	-29.01	Horizontal
12025.00	27.66	39.08	15.03	36.13	45.64	74.00	-28.36	Horizontal
14430.00	26.09	42.46	17.17	36.01	49.71	74.00	-24.29	Horizontal

Average value:

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Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4810.00	32.50	31.78	8.60	37.66	35.22	54.00	-18.78	Vertical
7215.00	28.01	36.15	11.66	35.69	40.13	54.00	-13.87	Vertical
9620.00	22.82	38.01	14.14	34.91	40.06	54.00	-13.94	Vertical
12025.00	23.38	39.08	15.03	36.13	41.36	54.00	-12.64	Vertical
14430.00	21.51	42.46	17.17	36.01	45.13	54.00	-8.87	Vertical
4810.00	41.51	31.78	8.60	37.66	44.23	54.00	-9.77	Horizontal
7215.00	35.30	36.15	11.66	35.69	47.42	54.00	-6.58	Horizontal
9620.00	21.99	38.01	14.14	34.91	39.23	54.00	-14.77	Horizontal
12025.00	21.65	39.08	15.03	36.13	39.63	54.00	-14.37	Horizontal
14430.00	20.71	42.46	17.17	36.01	44.33	54.00	-9.67	Horizontal

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (dB μ V/m)- limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown " * "in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

Page 28 of 36



Test channel: Middle

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	41.14	31.85	8.66	37.68	43.97	74.00	-30.03	Vertical
7320.00	36.19	36.37	11.72	35.64	48.64	74.00	-25.36	Vertical
9760.00	28.64	38.35	14.25	34.98	46.26	74.00	-27.74	Vertical
12200.00	27.20	38.92	15.14	36.26	45.00	74.00	-29.00	Vertical
14640.00	26.05	42.21	17.28	35.72	49.82	74.00	-24.18	Vertical
4880.00	46.11	31.85	8.66	37.68	48.94	74.00	-25.06	Horizontal
7320.00	42.54	36.37	11.72	35.64	54.99	74.00	-19.01	Horizontal
9760.00	28.08	38.35	14.25	34.98	45.70	74.00	-28.30	Horizontal
12200.00	25.24	38.92	15.14	36.26	43.04	74.00	-30.96	Horizontal
14640.00	26.54	42.21	17.28	35.72	50.31	74.00	-23.69	Horizontal

Average value:

Average var	uc.							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	34.98	31.85	8.66	37.68	37.81	54.00	-16.19	Vertical
7320.00	30.42	36.37	11.72	35.64	42.87	54.00	-11.13	Vertical
9760.00	21.25	38.35	14.25	34.98	38.87	54.00	-15.13	Vertical
12200.00	21.00	38.92	15.14	36.26	38.80	54.00	-15.20	Vertical
14640.00	18.82	42.21	17.28	35.72	42.59	54.00	-11.41	Vertical
4880.00	40.95	31.85	8.66	37.68	43.78	54.00	-10.22	Horizontal
7320.00	36.15	36.37	11.72	35.64	48.60	54.00	-5.40	Horizontal
9760.00	22.69	38.35	14.25	34.98	40.31	54.00	-13.69	Horizontal
12200.00	23.03	38.92	15.14	36.26	40.83	54.00	-13.17	Horizontal
14640.00	20.31	42.21	17.28	35.72	44.08	54.00	-9.92	Horizontal

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (dB\mu V/m) limit (dB\mu V/m)$
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown " * "in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.



Page 29 of 36

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



Test channel:	Highest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4950.00	39.59	31.93	8.73	37.69	42.56	74.00	-31.44	Vertical
7425.00	31.82	36.59	11.79	35.58	44.62	74.00	-29.38	Vertical
9900.00	30.13	38.81	14.38	35.07	48.25	74.00	-25.75	Vertical
12375.00	26.72	38.76	15.27	36.43	44.32	74.00	-29.68	Vertical
14850.00	27.56	41.52	17.39	35.39	51.08	74.00	-22.92	Vertical
4950.00	49.81	31.93	8.73	37.69	52.78	74.00	-21.22	Horizontal
7425.00	35.50	36.59	11.79	35.58	48.30	74.00	-25.70	Horizontal
9900.00	28.30	38.81	14.38	35.07	46.42	74.00	-27.58	Horizontal
12375.00	27.92	38.76	15.27	36.43	45.52	74.00	-28.48	Horizontal
14850.00	26.70	41.52	17.39	35.39	50.22	74.00	-23.78	Horizontal

Average value:

Average value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4950.00	33.13	31.93	8.73	37.69	36.10	54.00	-17.90	Vertical
7425.00	25.07	36.59	11.79	35.58	37.87	54.00	-16.13	Vertical
9900.00	22.25	38.81	14.38	35.07	40.37	54.00	-13.63	Vertical
12375.00	23.33	38.76	15.27	36.43	40.93	54.00	-13.07	Vertical
14850.00	20.08	41.52	17.39	35.39	43.60	54.00	-10.40	Vertical
4950.00	44.85	31.93	8.73	37.69	47.82	54.00	-6.18	Horizontal
7425.00	29.33	36.59	11.79	35.58	42.13	54.00	-11.87	Horizontal
9900.00	21.42	38.81	14.38	35.07	39.54	54.00	-14.46	Horizontal
12375.00	24.52	38.76	15.27	36.43	42.12	54.00	-11.88	Horizontal
14850.00	19.21	41.52	17.39	35.39	42.73	54.00	-11.27	Horizontal

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (dB\mu V/m) limit (dB\mu V/m)$
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown " * "in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

Page 30 of 36



Appendix A: Photographs of Test Setup

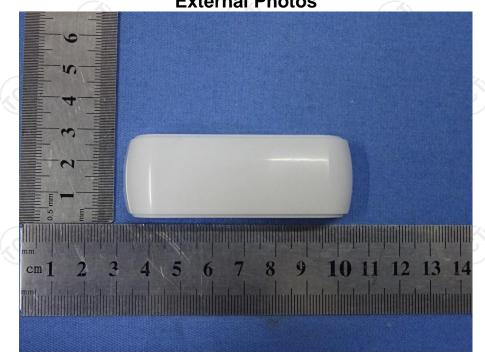
Product: Temperature Sensor Model: SAU2DA1 Radiated Emission





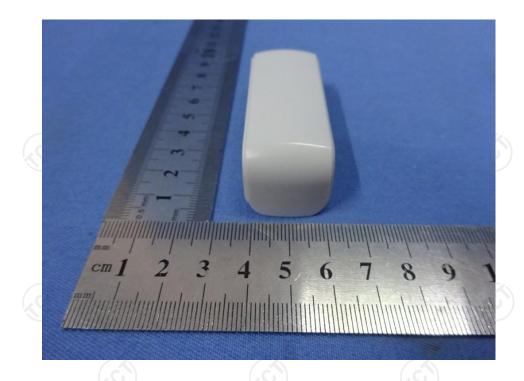


Appendix B: Photographs of EUT Product: Temperature Sensor Model: SAU2DA1 External Photos



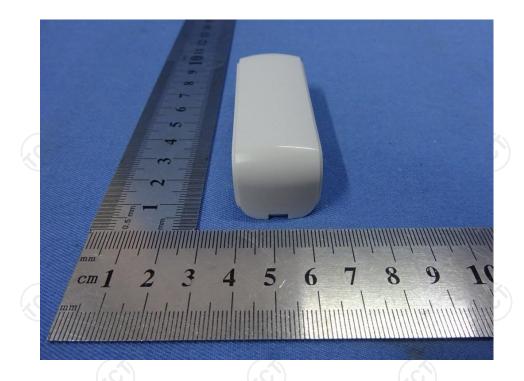
















Product: Temperature Sensor Model: SAU2DA1 Internal Photos

