

FCC RADIO TEST REPORT FCC ID: 2AHXUSAAT-H810

Product: RFID Handheld reader

Trade Name: N/A

Model Number: SAAT-H810

Serial Model: N/A

Report No.: POCE-160416050F

Prepared for

Aerospace Innotech Co., Ltd.

F9, Block D, SZAAT Building,10th Road Kejinan, Hi-Tech Park, Nanshan District, Shenzhen, Guangdong, China

Prepared by

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Page 2 of 28 Report No.: POCE-160416050F

VERIFICATION OF COMPLIANCE				
Applicant:	Aerospace Innotech Co., Ltd.			
Addroop	F9, Block D, SZAAT Building,10th Road Kejinan, Hi-Tech Park, Nanshan			
Address	District, Shenzhen, Guangdong, China			
Manufacturer Name:	Aerospace Innotech Co., Ltd.			
Product Description:	RFID Handheld reader			
Brand Name:	N/A			
Model Name:	SAAT-H810			
Model difference:	N/A			
Test procedure	ANSI C63.10-2013			
Standards	FCC PART15.249			
Date (s) of performance of tests	10 Apr. 2016 ~20 Apr.2016			
Date of Issue	20 Apr. 2016			

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Approved & Authorized Signer :	



Table of Contents	Page
1 . SUMMARY OF TEST RESULTS	4
1.1 TEST FACILITY	5
1.2 MEASUREMENT UNCERTAINTY	5
2. GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF TEST MODES	7
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	8
2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	9
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	10
3 . TEST RESULT	11
3.1 ANTENNA REQUIREMENT	11
3.1.1 STANDARD REQUIREMENT	11
3.1.2 EUT ANTENNA	11
3.2 CONDUCTED EMISSION MEASUREMENT	12
3.2.1 POWER LINE CONDUCTED EMISSION LIMITS	12
3.2.2 TEST PROCEDURE 3.2.3 DEVIATION FROM TEST STANDARD	13 13
3.2.4 TEST SETUP	13
3.2.5 TEST RESULT	14
3.3 RADIATED EMISSION MEASUREMENT	16
3.3.1 RADIATED EMISSION LIMITS	16
3.3.2 TEST PROCEDURE	17
3.3.3 DEVIATION FROM TEST STANDARD	17
3.3.4 TEST SETUP 3.3.5 TEST RESULTS (BLOW 30MHZ)	18 20
3.3.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)	21
3.3.7 TEST RESULTS (ABOVE 1000 MHZ)	24
4 . 20DB BANDWIDTH TEST	27
4.1 TEST PROCEDURE	27
4.2 DEVIATION FROM STANDARD	27
4.3 TEST SETUP	27
4.4 TEST RESULTS APPENDIX-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	28



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.249)						
Standard Section	Test Item	Remark				
15.207	Conducted Emission	Pass				
15.203	Antenna Requirement	Pass				
15.249	Radiated Spurious Emission	Pass				
15.249	20 DB Bandwidth	Pass				
15.205	Band Edge Emission	Pass				





1.1 TEST FACILITY

Shenzhen POCE Technology Co.,Ltd.

Add.: Room 502, Bldg. 1, Xinghua Garden, Baoan Road Xixiang, Baoan District, Shenzhen,

China

FCC-Registration No.: 222278

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty	
1	Conducted Emission Test	±1.38dB	
2	RF power,conducted	±0.16dB	
3	Spurious emissions,conducted	±0.21dB	
4	All emissions,radiated(<1G)	±4.68dB	
5	All emissions,radiated(>1G)	±4.89dB	
6	Temperature	±0.5°C	
7	Humidity	±2%	



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	RFID Handheld reader			
Trade Name	N/A			
Model Name	SAAT-H810			
Serial Model	N/A			
Model Difference	N/A			
	The EUT is a RFID Han	dheld reader		
	Operation Frequency:	916MHz		
	Modulation Type:	GFSK		
	Channel number	1 channel		
	Antenna Designation:	Chip antenna		
Product Description	Antenna Gain(Peak)	2dBi		
	Max. PK field strength	85.21 dBuV/m@3m		
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.			
Power Supply	DC3.7V,1000mAH			
	Model:HNC050200U			
Adapter	INPUT:AC100-240V			
	OUTPUT:5V,2A			

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Report No.: POCE-160416050F

Pretest Mode	Description
Mode 1	TX

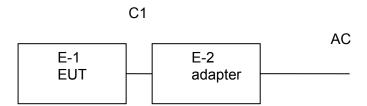
For Conducted Emission				
Final Test Mode Description				
Mode 1	TX			

For Radiated Emission				
Final Test Mode Description				
Mode 1 TX				

NOTE: The EUT configured to transmit signals continuously. (duty cycle>98%)



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





Page 9 of 28 Report No.: POCE-160416050F

2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	RFID Handheld reader	dheld reader N/A		N/A	EUT
E-2	Adapter	N/A	HNC050200U	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C1	No	No	0.8m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	EMI Test Receiver	R&S	ESU8	100316	2015/10/25	2016/10/24
2	Double Ridged Horn Antenna (0.8GHz-18GHz)	R&S	HF907	100276	2015/11/01	2016/10/31
3	Log-periodic Dipole Antenna (30MHz-1GHz)	R&S	HL223	100435	2015/11/01	2016/10/31
4	Biconical Antenna (9K-30MHz)	R&S	HK116	100431	2015/10/25	2016/10/24
5	Pre-amplifer	Schwarzbeck	VULB 9163	9163-462	2016/04/12	2017/04/11
6	Signal Conditioning Unit	R&S	SCU-08	10008	2015/10/25	2016/10/24
7	Rod Antenna (9K-30MHz)	R&S	HFH2-Z6	100386	2015/11/01	2016/10/31
8	Pre-amplifer	R&S	SCU-01	10049	2015/10/25	2016/10/24
9	Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	2015/11/01	2016/10/31
10	Spectrum Analyzer	Agilent	E4407B	MY45109572	2015/11/01	2016/10/31

Conduction Test equipment

Item	Kind of Equipment	Manufactur er	Type No.	Serial No.	Last calibration	Calibrated until
1	Test Receiver	R&S	ESU8	100316	2015/10/25	2016/10/24
	Current Probe	R&S	EZ-17	100532	2015/10/25	2016/10/24
3	Two Line V-Network	R&S	ENV216	101109	2015/10/25	2016/10/24
4	Passive Voltage Probe	R&S	ESH2-Z3	100169	2015/10/25	2016/10/24
5	V-Network	R&S	ESH3-Z6	100694	2015/10/25	2016/10/24
6	V-Network	R&S	ESH3-Z6	100690	2015/10/25	2016/10/24
7	Artificial mains	R&S	ESH2-Z5	100309	2015/10/25	2016/10/24
8	Pulse Limiter	R&S	ESH3-Z2	101242	2015/10/25	2016/10/24





3. TEST RESULT

3.1 ANTENNA REQUIREMENT

3.1.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

Report No.: POCE-160416050F

3.1.2 EUT ANTENNA

The EUT	antenna is	Wire Antenna.	It's permanent	attached	antenna.	It comply with	the standard
requirem	ent.						



3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

EDEOLIENCY (MH-)	Class B	Standard	
FREQUENCY (MHz)	Quasi-peak	Average	Standard
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	LP002.
0.50 -5.0	56.00	46.00	LP002.
5.0 -30.0	60.00	50.00	LP002.

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



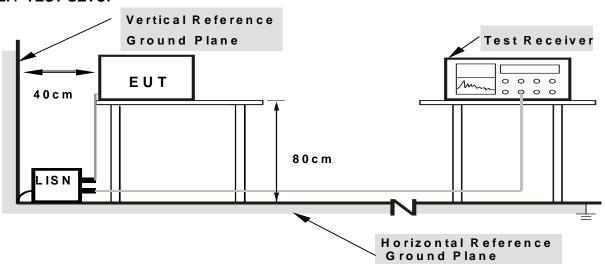
3.2.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.2.3 DEVIATION FROM TEST STANDARD

No deviation

3.2.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes



3.2.5 TEST RESULT

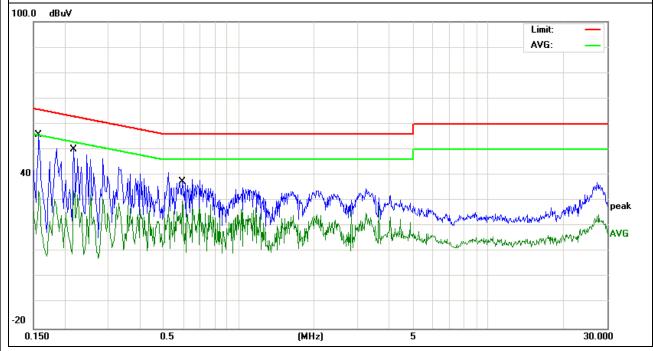
EUT:	RFID Handheld reader	Model Name. :	SAAT-H810
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1

Report No.: POCE-160416050F

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.2180	39.92	10.20	50.12	62.89	-12.77	QP
0.1580	45.93	9.88	55.81	65.56	-9.75	QP
0.5940	30.74	10.22	40.96	56.00	-15.04	QP
0.1580	24.07	9.88	33.95	55.56	-21.61	AVG
0.2180	22.37	10.20	32.57	52.89	-20.32	AVG
0.5940	19.84	10.22	30.06	46.00	-15.94	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



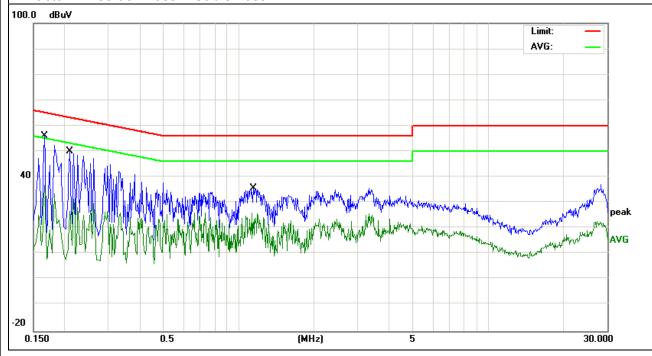
Report No.: POCE-160416050F Page 15 of 28

EUT:	RFID Handheld reader	Model Name. :	SAAT-H810
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.1660	46.37	9.81	56.18	65.15	-8.97	QP
0.2100	40.14	9.78	49.92	63.20	-13.28	QP
1.1340	25.44	10.16	35.60	56.00	-20.40	QP
0.1660	27.16	9.81	36.97	55.15	-18.18	AVG
0.2100	19.95	9.78	29.73	53.20	-23.47	AVG
1.1340	15.76	10.16	25.92	46.00	-20.08	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





3.3 RADIATED EMISSION MEASUREMENT

3.3.1 Radiated Emission Limits (FCC 15.209)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
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
216~960	200	3
Above 960	500	3

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.249)

Frequency of Emission (MHz)	Field Strength of fundamental ((millivolts /meter)	Field Strength of Harmonics (microvolts/meter)
000 000 1411	((iiiiii oito /iiioto.)	(
902-928 MHz	50	500

Notes:

(1) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



3.3.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.

Report No.: POCE-160416050F

- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

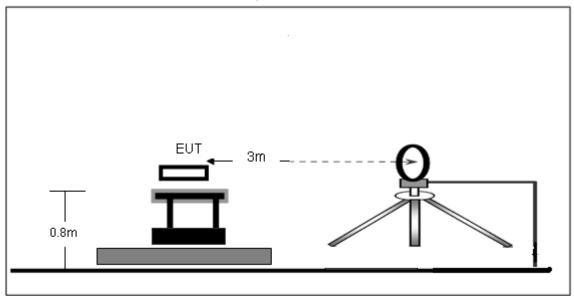
3.3.3 DEVIATION FROM TEST STANDARD

No deviation

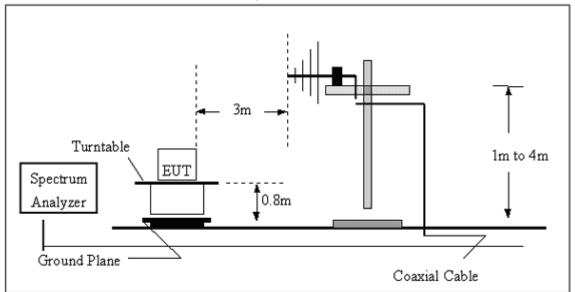


3.3.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

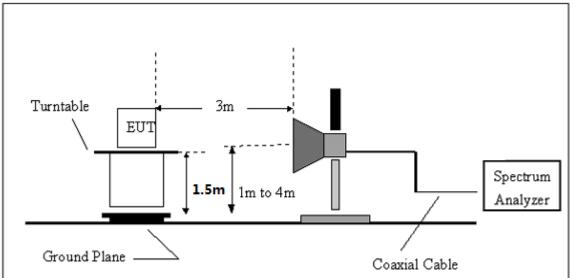


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



Page 19 of 28 Report No.: POCE-160416050F







3.3.5 TEST RESULTS (BLOW 30MHz)

EUT:	RFID Handheld reader	Model Name. :	SAAT-H810
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX	Polarization :	

Report No.: POCE-160416050F

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.



3.3.6 TEST RESULTS (BETWEEN 30 - 1000 MHZ)

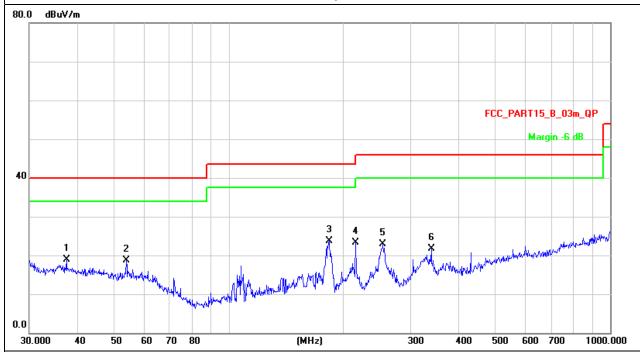
EUT:	RFID Handheld reader	Model Name :	SAAT-H810
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V
Test Mode :	TX	Polarization :	Vertical

Report No.: POCE-160416050F

Frequ	ency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MF	lz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
37.5	179	27.55	-8.73	18.82	40.00	-21.18	QP
53.8	818	29.57	-10.93	18.64	40.00	-21.36	QP
183.2	005	38.44	-14.73	23.71	43.50	-19.79	QP
215.2	678	39.09	-15.77	23.32	43.50	-20.18	QP
253.8	367	37.06	-14.09	22.97	46.00	-23.03	QP
339.5	888	33.35	-11.57	21.78	46.00	-24.22	QP

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



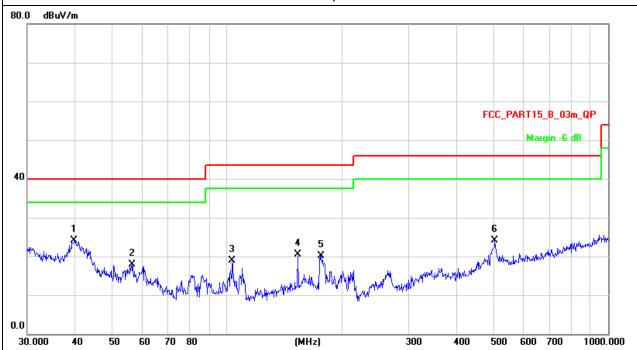
Page 22 of 28 Report No.: POCE-160416050F

EUT:	RFID Handheld reader	Model Name :	SAAT-H810
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V
Test Mode :	TX	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
39.8542	32.98	-8.84	24.14	40.00	-15.86	QP
56.5929	29.25	-11.25	18.00	40.00	-22.00	QP
103.4421	35.13	-16.19	18.94	43.50	-24.56	QP
153.7385	33.34	-12.86	20.48	43.50	-23.02	QP
176.8878	34.26	-14.07	20.19	43.50	-23.31	QP
504.7062	32.25	-8.12	24.13	46.00	-21.87	QP

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.





Horizontal

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
916.00	80.56	23.11	5.95	24.41	0.00	85.21	114.00	-28.79	Р
916.00	80.56	23.11	5.95	24.41	0.00	85.21	94.00	-8.79	Α

Vertical

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
916.00	72.68	23.11	5.95	24.41	0.00	77.33	114.00	-36.67	Р
916.00	72.68	23.11	5.95	24.41	0.00	77.33	94.00	-16.67	Α

Remark:

 $Margin\ (dB) = Remark\ result\ (dBuV/m) - Quasi-peak\ limit\ (dBuV/m).$



3.3.7 TEST RESULTS (ABOVE 1000 MHZ)

Horizontal

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
1832,83	64.80	29.15	2.21	48.33	0.30	48.13	74.00	-25.87	Р
1832.83	64.80	29.15	2.21	48.33	0.30	48.13	54.00	-5.87	А
2748.23	55.82	30.38	2.77	47.29	0.30	41.98	74.00	-32.02	Р
2748.23	55.82	30.38	2.77	47.29	0.30	41.98	54.00	-12.02	Α
3664.58	56.31	31.04	3.23	47.60	0.30	43.28	74.00	-30.72	Р
3664.58	56.31	31.04	3.23	47.60	0.30	43.28	54.00	-10.72	Α
4543.30	55.86	33.03	3.66	48.28	0.40	44.67	74.00	-29.33	Р
4543.30	55.86	33.03	3.66	48.28	0.40	44.67	54.00	-9.33	Α
N/A									

Vertical

Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
1832.83	65.16	29.15	2.21	48.33	0.30	48.49	74.00	-25.51	Р
1832.83	65.16	29.15	2.21	48.33	0.30	48.49	54.00	-5.51	Α
2748.23	55.59	30.38	2.77	47.29	0.30	41.75	74.00	-32.25	Р
2748.23	55.59	30.38	2.77	47.29	0.30	41.75	54.00	-12.25	Α
3664.58	56.18	31.04	3.23	47.60	0.30	43.15	74.00	-30.85	Р
3664.58	56.18	31.04	3.23	47.60	0.30	43.15	54.00	-10.85	Α
4543.54	55.21	33.03	3.66	48.28	0.40	44.02	74.00	-29.98	Р
4543.54	55.21	33.03	3.66	48.28	0.40	44.02	54.00	-9.98	А
N/A									



Remark:

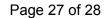
Report No.: POCE-160416050F

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m). Peak detector mode and average detector mode of the emission shown in Result column.





Band Edge Emission: Due to the operating frequency of this EUT is 916MHz only, and its 20dB BW is just 121kHz, the Band Edge is not required because the allowed frequency band is 902~928MHz.





4. 20DB BANDWIDTH TEST

4.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

Report No.: POCE-160416050F

b. Spectrum Setting : RBW= 10KHz, VBW≥RBW, Sweep time = Auto.

4.2 DEVIATION FROM STANDARD

No deviation.

4.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER



4.4 TEST RESULTS

EUT:	RFID Handheld reader	Model Name :	SAAT-H810
Temperature :	26 ℃	Relative Humidity:	53%
Pressure:	1020 hPa	Test Power :	DC 3.7V
Test Mode :	TX		

Frequency	20 dBc Bandwidth	
(MHz)	(KHz)	
916	121.0	

