



FCC RADIO TEST REPORT FCC ID: XLY-DP700

Product :SMART CARD READER/WRITER FOR
RFID SYSTEMTrade Mark :ZEPHYR LOCKModel Name :DP700SFamily Model :N/AReport No. :S19010703501001

Prepared for

Zephyrlock,LLC 14 Finance Drive Danbury, CT United States 06810

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community,Xixiang Street Bao'an District, Shenzhen 518126 P.R. China Tel.: +86-755-6115 6588 Fax.: +86-755-6115 6599 Website:http://www.ntek.org.cn





TEST RESULT CERTIFICATION

Applicant's name: Zephyrlock,LLC
Address 14 Finance Drive Danbury, CT United States 06810
Manufacturer's Name:: Dongguan TonXon Intelligent Technology Co.,Ltd.
Address : Linwuzhou, Shayao Management District, Shijie Town, Dongguan City, Guangdong Province, China
Product description
Product name SMART CARD READER/WRITER FOR RFID SYSTEM
Model and/or type reference : DP700S
Family Model : N/A
Standards FCC Part15.225
Test procedure ANSI C63.10-2013
This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
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document may be altered or revised by NTEK, personnel only, and shall be noted in the revision of
the document.
Date of Test
Date (s) of performance of tests
Date of Issue 26 Jan. 2019
Test Result Pass
Testing Engineer :
Testing Engineer :
(Allen Liu)
Technical Manager: Jusen chen
(Jason Chen)
Authorized Signatory : Sam. Chew
(Sam Chen)





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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.225)						
Standard Section	Test Item	Judgment	Remark			
15.207	Conducted Emission	Pass				
15.205(a) 15.209 15.225	Radiated Spurious Emission	Pass				
15.225	20dB Bandwidth	Pass				
15.225	Frequency Tolerance	Pass				
15.203	Antenna Requirement	Pass				

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NOTE:

(1) " N/A" denotes test is not applicable in this Test Report.



1.1 TEST FACILITY

All measurement facilities used to collect the measurement data are located at 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

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The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

Site Description

CNAS-Lab.	:	The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L5516.	
IC-Registration		The Certificate Registration Number is 9270A-1.	
FCC- Accredited		Test Firm Registration Number: 463705.	
		Designation Number: CN1184	
A2LA-Lab.		The Certificate Registration Number is 4298.01	
		This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a	
		defined scope and the operation of a laboratory quality management system	
		(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).	
Name of Firm	:	Shenzhen NTEK Testing Technology Co., Ltd.	
Site Location	:	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang	
		Street, Bao'an District, Shenzhen 518126 P.R. China.	

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 **k=2**, providing a level of confidence of approximately 95 % -

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	SMART CARD READER/WRITER FOR RFID SYSTEM		
Trade Mark	ZEPHYR LOCK		
Model Name	DP700S		
Family Model	N/A		
Model Difference	N/A		
	The EUT is a SMART CARD READER/WRITER FOR RFID SYSTEM		
	Operation Frequency: 13.56MHz		
Product Description	Modulation Type: ASK		
	Number Of Channel 1CH.		
	Antenna Designation: Loop Antenna		
	Antenna Gain(Peak) 0 dBi		
Adapter	N/A		
Battery	N/A		
Rating	DC 5V from USB Port.		
HW Version	V2.1		
SW Version	V3.6		

Note:

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

2.

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	Loop Antenna	N/A	0	Antenna



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.

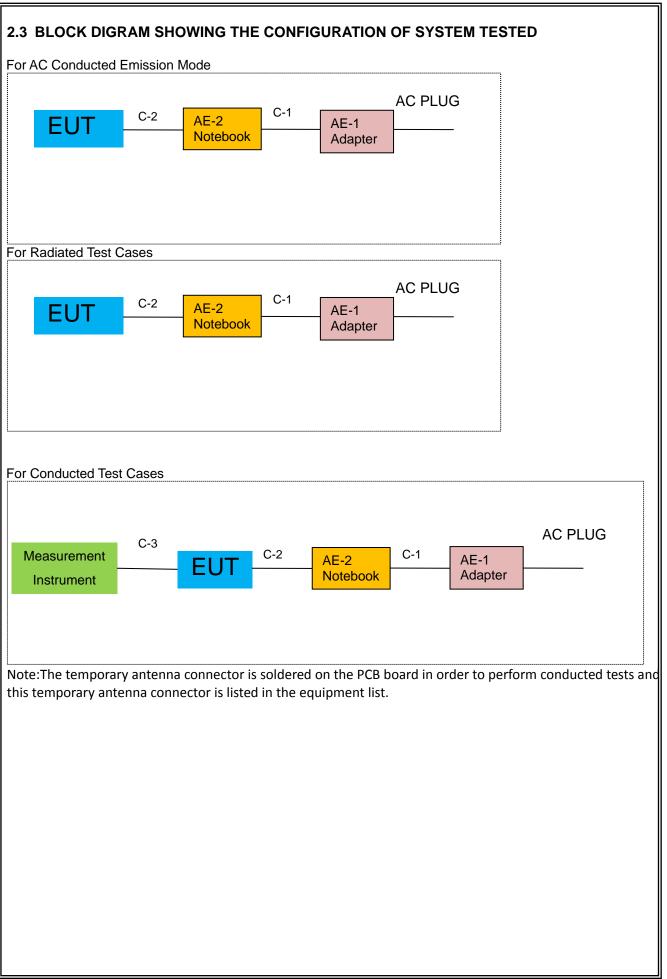
Pretest Mode	Description
Mode 1	TX-13.56MHz

For Conducted Emission				
Final Test Mode Description				
Mode 1 TX-13.56MHz				

For Radiated Emission					
Final Test Mode Description					
Mode 1 TX-13.56MHz					

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2.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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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	Brand	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	N/A	N/A	
AE-2	Notebook	Lenovo	Thinkpad Edge E430	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	YES	1.2m	
C-2	NO	YES	1.0m	
C-3	YES	NO	0.1m	

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 ^[] Length ^[] column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

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Radiation& Conducted Test equipment							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2018.05.19	2019.05.18	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2018.10.08	2019.10.04	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2018.10.08	2019.10.04	1 year
4	Test Receiver	R&S	ESPI7	101318	2018.05.19	2019.05.18	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2018.04.08	2019.04.07	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2018.05.19	2020.05.18	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2018.04.08	2019.04.07	1 year
8	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2018.11.03	2019.11.02	1 year
9	LF Cable	N/A	R-03	N/A	2018.06.05	2021.06.05	3 year
10	PSG Analog Signal Generator	Agilent	E8257D	MY51110112	2018.08.05	2019.08.04	1 year
11	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2017.04.21	2020.04.20	3 year
12	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year

Note:

1.We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list

2. Each piece of equipment is scheduled for calibration once a year except the Test Cable& Aux Equipment which is scheduled for calibration every 3 years.



3. ANTENNA REQUIREMENT

3.1 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.

3.2 EUT ANTENNA

The EUT antenna is permanent attached antenna. It comply with the standard requirement.



4. EMC EMISSION TEST

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4.1 CONDUCTED EMISSION MEASUREMENT

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

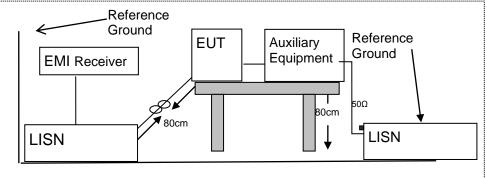
	Conducted	d Emission Limit
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. *Decreases with the logarithm of the frequency

2. The lower limit shall apply at the transition frequencies

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.1.2 TEST CONFIGURATION



4.1.3 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- Connect EUT 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.
- 4. 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 40cm long.
- 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.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.

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4.1.4 TEST RESULT

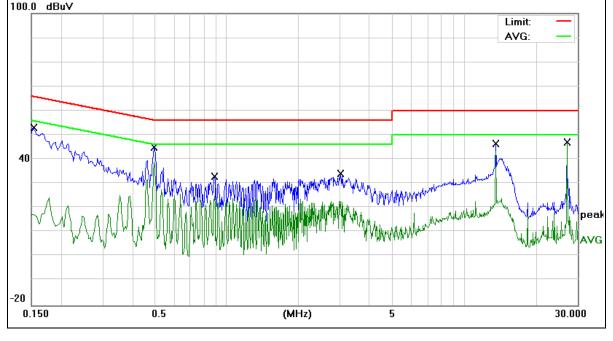
EUT :	SMART CARD READER/WRITER FOR RFID SYSTEM	Model Name :	DP700S
Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from PC AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	43.26	9.75	53.01	65.78	-12.77	QP
0.1539	14.47	9.75	24.22	55.78	-31.56	AVG
0.4939	35.09	9.74	44.83	56.10	-11.27	QP
0.4939	28.88	9.74	38.62	46.10	-7.48	AVG
0.8860	23.11	9.74	32.85	56.00	-23.15	QP
0.8860	15.15	9.74	24.89	46.00	-21.11	AVG
3.0099	24.34	9.83	34.17	56.00	-21.83	QP
3.0099	13.00	9.83	22.83	46.00	-23.17	AVG
13.5618	36.34	10.07	46.41	60.00	-13.59	QP
13.5618	33.06	10.07	43.13	50.00	-6.87	AVG
27.1219	36.52	10.59	47.11	60.00	-12.89	QP
27.1219	35.78	10.59	46.37	50.00	-3.63	AVG

Remark:

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

100.0 dBuV

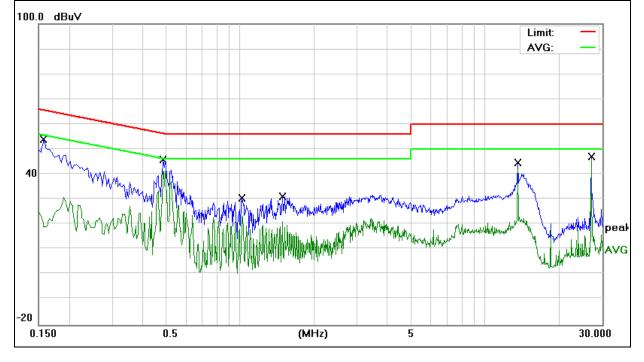




	SMART CARD READER/WRITER FOR RFID SYSTEM	Model Name :	DP700S
Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from PC AC 120V/60Hz	Test Mode :	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1580	44.08	9.74	53.82	65.56	-11.74	QP
0.1580	16.12	9.74	25.86	55.56	-29.70	AVG
0.4859	36.04	9.75	45.79	56.24	-10.45	QP
0.4859	31.65	9.75	41.40	46.24	-4.84	AVG
1.0140	20.73	9.75	30.48	56.00	-25.52	QP
1.0140	14.04	9.75	23.79	46.00	-22.21	AVG
1.4819	21.46	9.77	31.23	56.00	-24.77	QP
1.4819	11.61	9.77	21.38	46.00	-24.62	AVG
13.5618	34.59	10.07	44.66	60.00	-15.34	QP
13.5618	32.27	10.07	42.34	50.00	-7.66	AVG
27.1219	36.46	10.56	47.02	60.00	-12.98	QP
27.1219	35.56	10.56	46.12	50.00	-3.88	AVG

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

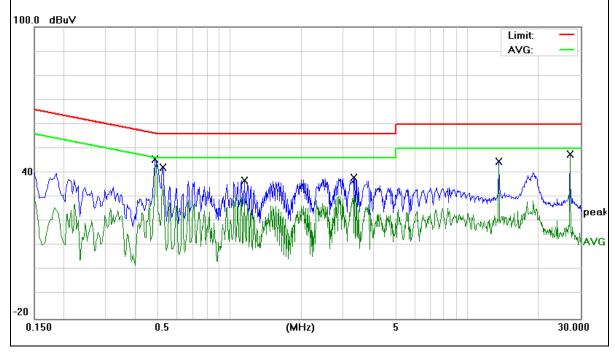




EUT :	SMART CARD READER/WRITER FOR RFID SYSTEM	Model Name :	DP700S
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from PC AC 240V/60Hz	Test Mode :	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.4860	35.83	9.74	45.57	56.24	-10.67	QP
0.4860	34.13	9.74	43.87	46.24	-2.37	AVG
0.5220	32.51	9.74	42.25	56.00	-13.75	QP
0.5220	28.28	9.74	38.02	46.00	-7.98	AVG
1.1539	27.21	9.74	36.95	56.00	-19.05	QP
1.1539	15.37	9.74	25.11	46.00	-20.89	AVG
3.3140	28.25	9.84	38.09	56.00	-17.91	QP
3.3140	16.51	9.84	26.35	46.00	-19.65	AVG
13.5620	34.55	10.07	44.62	60.00	-15.38	QP
13.5620	32.91	10.07	42.98	50.00	-7.02	AVG
27.1220	37.03	10.59	47.62	60.00	-12.38	QP
27.1220	36.17	10.59	46.76	50.00	-3.24	AVG

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

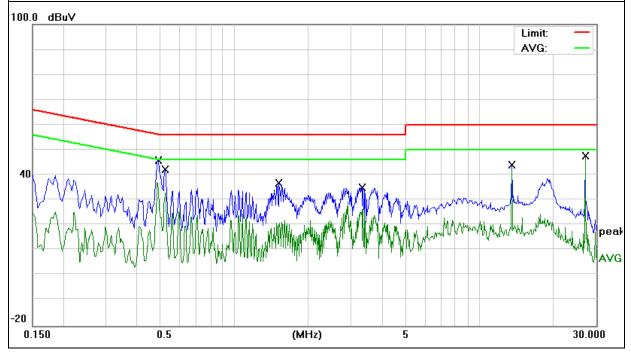




EUT :	SMART CARD READER/WRITER FOR RFID SYSTEM	Model Name :	DP700S
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from PC AC 240V/60Hz	Test Mode :	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.4900	36.04	9.75	45.79	56.17	-10.38	QP
0.4900	27.27	9.75	37.02	46.17	-9.15	AVG
0.5220	32.58	9.75	42.33	56.00	-13.67	QP
0.5220	25.58	9.75	35.33	46.00	-10.67	AVG
1.5260	27.12	9.78	36.90	56.00	-19.10	QP
1.5260	16.91	9.78	26.69	46.00	-19.31	AVG
3.3140	25.14	9.89	35.03	56.00	-20.97	QP
3.3140	18.23	9.89	28.12	46.00	-17.88	AVG
13.5619	34.04	10.07	44.11	60.00	-15.89	QP
13.5619	32.31	10.07	42.38	50.00	-7.62	AVG
27.1220	37.02	10.56	47.58	60.00	-12.42	QP
27.1220	36.05	10.56	46.61	50.00	-3.39	AVG

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





4.2 RADIATED EMISSION MEASUREMENT

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4.2.1 Radiated Emission	4.2.1 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 15.225)

(a)The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters, equal to 104dBuV/m at 3 meters.

(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters, equal to 74.5dBuV/m at 3 meters.
(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters, equal to 60.5dBuV/m at 3 meters..
(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.



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

4.2.2 TEST PROCEDURE

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

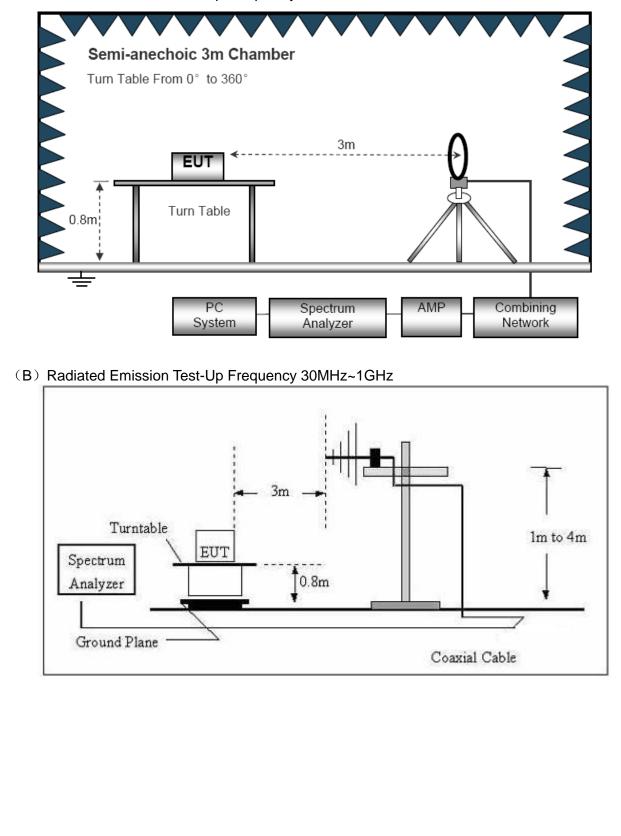
4.2.3 DEVIATION FROM TEST STANDARD

No deviation



4.2.4 TEST SETUP

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



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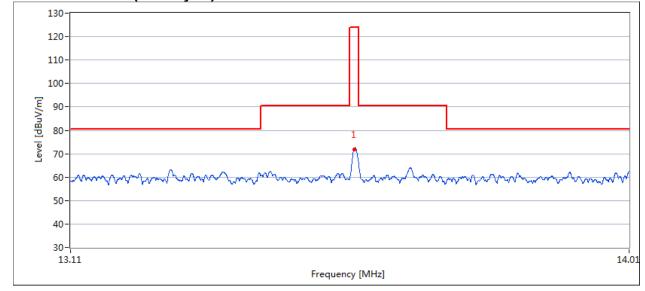
4.2.5 TEST RESULTS (BELOW 30MHz)

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EUT :	SMART CARD READER/WRITER FOR RFID SYSTEM	Model Name. :	DP700S	
Temperature :		Relative Humidtity:	54%	
Pressure :	1010 hPa	Test Voltage :	DC 5V	
Test Mode :	TX-13.56MHz			
Measurement Plot (Polarity: X):				

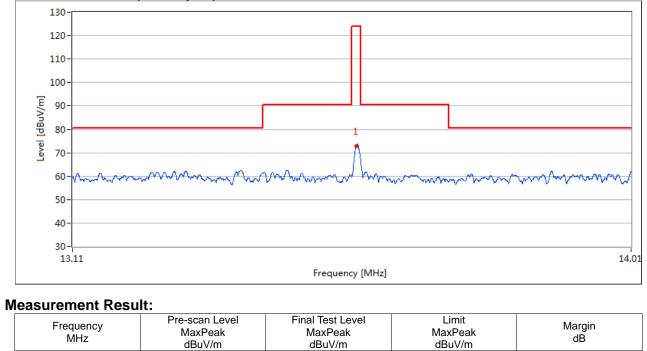
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Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
13.561	71.9	69.8	124.0	54.2

Measurement Plot (Polarity: Y):



52.1

80.5

28.4

13.240

72.8

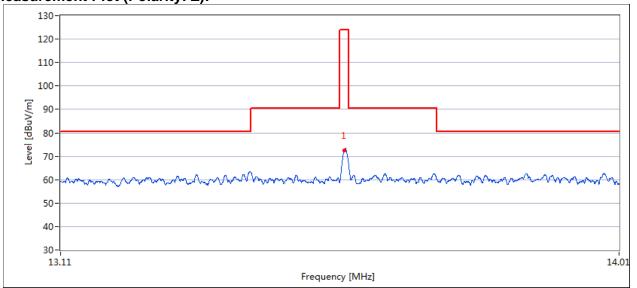
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Measurement Plot (Polarity: Z):

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Measurement Result:

Frequency MHz	Pre-scan Level MaxPeak dBuV/m	Final Test Level MaxPeak dBuV/m	Limit MaxPeak dBuV/m	Margin dB
13.240	72.3	42.4	80.5	38.1

Spurious emissions at 9kHz~30MHz

Frequency Range	Frequency	Measurement results	Measurement results (calculated)	Limits	Margin	Detector
(MHz)	(MHz)	dBµV	dBµV/m	dBµV/m	(dB)	
	@3m	&30m	@30m			
0.490-1.705	1.157	28.45	18.45	26.34	-7.89	QP
1.705-30.0	5.291	21.66	11.66	29.54	-17.88	QP
1.705-30.0	21.654	31.34	21.34	29.54	-8.2	QP

Note: field strength@30m= field strength@3m+20log(3/30)



4.2.6 TEST RESULTS (BETWEEN 30 - 1000 MHZ)

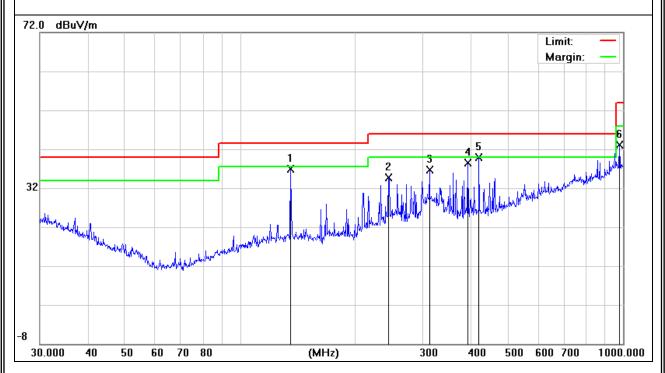
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EUT :	SMART CARD READER/WRITER FOR RFID SYSTEM	Model Name :	DP700S
Temperature :	20 ℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	ТХ	Polarization :	Horizontal

Freq.	Reading	Factor	Measurement	Limit	Over	Detector	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector	
135.51	23.54	13.37	36.91	43.50	-6.59	QP	
244.23	20.93	13.83	34.76	46.00	-11.24	QP	
312.18	20.33	16.38	36.71	46.00	-9.29	QP	
393.47	19.33	19.21	38.54	46.00	-7.46	QP	
420.58	19.50	20.32	39.82	46.00	-6.18	QP	l
979.18	12.00	31.02	43.02	54.00	-10.98	QP	

Remark:

Factor = Antenna Factor + Cable Loss.

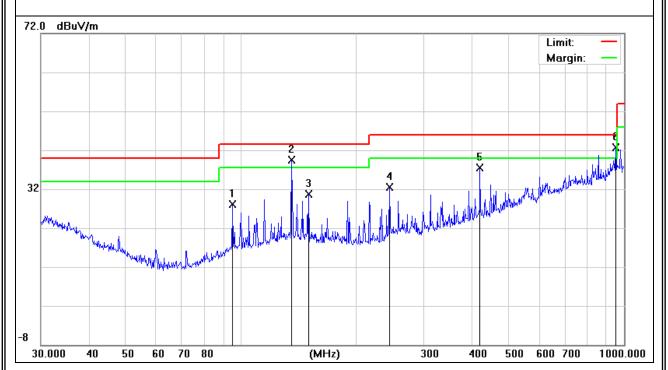




EUT :	SMART CARD READER/WRITER FOR RFID SYSTEM	Model Name :	DP700S
Temperature :	20 ℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	ТХ	Polarization :	Vertical

Freq.	Reading	Factor	Measurement	Limit	Over	Detector
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector
95.09	16.95	11.12	28.07	43.50	-15.43	QP
135.51	26.22	13.37	39.59	43.50	-3.91	QP
150.01	17.91	12.77	30.68	43.50	-12.82	QP
244.23	18.67	13.83	32.50	46.00	-13.50	QP
420.58	17.09	20.32	37.41	46.00	-8.59	QP
952.09	11.64	31.13	42.77	46.00	-3.23	QP

Factor = Antenna Factor + Cable Loss.





5. BANDWIDTH TEST

5.1 TEST PROCEDURE

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.

2. 20dB Bandwidth the resolution bandwidth of 1 kHz and the video bandwidth of 1 kHz were used.

3. Measured the spectrum width with power higher than 20dB below carrier.

5.2 DEVIATION FROM STANDARD

FCC Part15.225

5.3 TEST SETUP





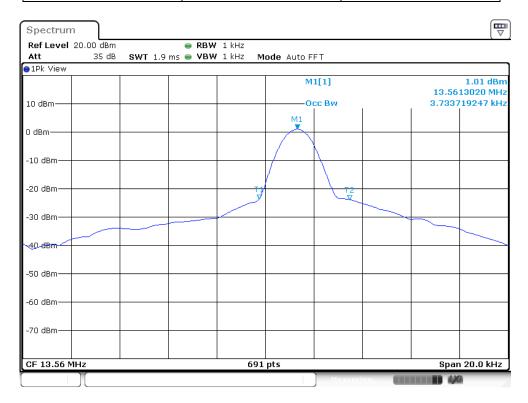
5.4 TEST RESULTS

EUT :	SMART CARD READER/WRITER FOR RFID SYSTEM	Model Name :	DP700S
Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	1020 hPa	Test Power :	DC 5V
Test Mode :	ТХ		

ACCREDITED

Certificate #4298.01

Test Channel	Frequency	20 dBc Bandwidth
	(MHz)	(kHz)
CH01	13.56	3.734







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6. FREQUENCY TOLERANCE

6.1 Requirement: Test Requirement:	FCC Part15.225
Test Method:	ANSI C63.4:2003
Requirement:	The frequency tolerance of the carrier signal shall be maintained
	within +/- 0.01% of the operating frequency over a temperature
	variation of –20 degrees to +50 degrees C at normal supply
	voltage, and for a variation in the primary supply voltage from
	85% to 115% of the rated supply voltage at a temperature of 20
	degrees C. For battery operated equipment, the equipment tests
	shall be performed using a new battery.
6.2 Test Procedure	9

1. The EUT was placed on a turn table which is 0.8m above ground plane.

2.Set EUT as normal operation

3.Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.

4.Set SPA Max hold. Mark peak.





Test Result

Power Supply	Temperature (℃)	Measured Frequency (MHz)	Frequency Error (MHz)	Result (%)	Part 15.225 Limit
DC 5V	-20	13.561302	0.001302	0.009602	+/- 0.01%
	20	13.561301	0.001301	0.009594	+/- 0.01%
	50	13.561291	0.001291	0.009521	+/- 0.01%
DC 4.5V	-20	13.561102	0.001102	0.008127	+/- 0.01%
	20	13.561103	0.001103	0.008134	+/- 0.01%
	50	13.561101	0.001101	0.008119	+/- 0.01%
DC 5.5V	-20	13.561111	0.001111	0.008193	+/- 0.01%
	20	13.561115	0.001115	0.008223	+/- 0.01%
	50	13.561112	0.001112	0.008201	+/- 0.01%

END REPORT