



EMC TEST REPORT

Product Name: RFID/NFC Blocking card

FCC ID: 2BE97-B08R35WBTZ

Trade mark: Wisdompro

Model No.: W-PVC+Chip-6xRfidBlockingCard-NvyBlu-AMZ ASIN: B08R35WBTZ,
W-PVC+Chip-6xRfidBlockingCard-NvyBlu-FC ASIN: B09PD1LV9T,
W-PVC+Chip-6xRfidBlockingCard-V2-AMZ ASIN: B0CWGJCTLY

S/N: /

Report No.: CTB240306022EX

Applicant: WISDOMPRO LLC

Address: RM. 3-504, NUODE HOLIDAY GARDEN, QIANHAI ROAD 369, NANSHAN,
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Manufacturer: DongGuang Biying Intelligent Technology Co., Ltd

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Prepared by: Shenzhen CTB Testing Technology Co., Ltd.

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Date of Receipt: Feb. 28, 2024

Date of Test(s): Feb. 28, 2024 ~ Mar. 06, 2024

Date of Issue: Mar. 06, 2024

Test Standard(s): CFR47, FCC Part 15 Subpart B, ANSI C63.4: 2014

Test Result: Pass

In the configuration tested, the EUT complied with the standards specified above.

Compiled by:

Michael Niu

Reviewed by:

Bin Mei

Approved by:



Rita Xiao

Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "★" indicates the testing items were fulfilled by subcontracted lab. "※" indicates the items are not in CNAS accreditation scope.

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1. Description of version

Report No.	Issue Date	Description	Approved
CTB240306022EX	Mar. 06, 2024	Original	Valid

2. Test summary

Test procedures according to the technical standards:

Standard	Test Item	Test Result
§15.107	Conducted Emission	PASS
§15.109	Radiated Emission	PASS

3. Measurement uncertainty

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

Test Item	Frequency	Expanded Uncertainty (U_{Lab})
Conducted Emission	150 kHz to 30 MHz	± 3.1 dB
Radiated Emission	30 MHz to 1000 MHz	± 4.1 dB
Radiated Emission	1000 MHz to 6000 MHz	± 4.8 dB

4. General information

4.1. Description of EUT

Product name	RFID/NFC Blocking card
Trade mark	Wisdompro
Model No.	W-PVC+Chip-6xRfidBlockingCard-NvyBlu-AMZ ASIN: B08R35WBTZ
Serial Model No.	W-PVC+Chip-6xRfidBlockingCard-NvyBlu-FC ASIN: B09PD1LV9T, W-PVC+Chip-6xRfidBlockingCard-V2-AMZ ASIN: B0CWGJCTLY
Model Difference	All the model are the same circuit and RF module, only different for model name. Test sample model: W-PVC+Chip-6xRfidBlockingCard-NvyBlu-AMZ ASIN: B08R35WBTZ
Configuration	☒ Table-top ☐ Floor-standing
The highest frequency of the internal sources of the EUT	☐ below 1.705 MHz, the measurement shall only be made up to 30 MHz. ☒ between 1.705 MHz and 108 MHz, the measurement shall only be made up to 1 GHz. ☐ between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz. ☐ between 500 MHz and 1 GHz, the measurement shall only be made up to 5 GHz. ☐ above 1 GHz, the measurement shall be made up to 5th harmonic of the highest frequency or 40 GHz, whichever is lower.

Note: The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

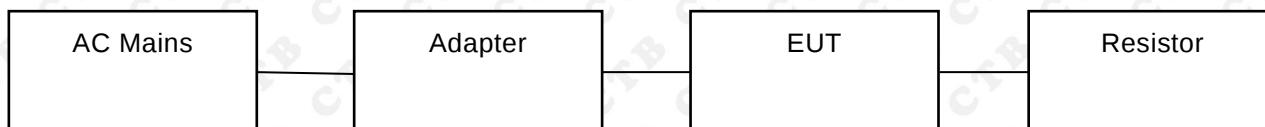
4.2. Description of accessory device

No.	Device Type	Brand	Model	Specification	Note
1	Adapter	JIYIN	JY-05100C	/	/

4.3. Test conditions

Temperature: 15-25°C
 Relative Humidity: 30-60 %
 Atmospheric pressure: 800hPa-1060hPa

4.4. Block diagram of EUT configuration



4.5. Operating condition of EUT

Operating condition	Mode 1	Working	Test Voltage	/
Note: This test covers all possible operating modes of the device, only the worst data are listed in report. The worst data are shown (*), which is the nearest standard limit which were recorded in this report.				

5. List of Test and Measurement Instruments

Continuous disturbance					
No.	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	843 Shield Room	C/ R/ T	843	/	2024/8/11
2	AMN	ROHDE&SCHWARZ	ESH3-Z5	831551852	2024/7/04
3	Pulse limiter	ROHDE&SCHWARZ	ESH3Z2	357881052	2024/7/04
4	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCS30	834115/006	2024/7/04
5	Coaxial cable	ZDECL	Z302S	18091904	2024/7/04
6	AAN	Schwarzbeck	NTFM8158	183	2024/7/07
7	EZ-EMC	Frad	EMC-con3A1.1	/	/

Radiated emission					
No.	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	966 Chamber	C/ R/ T	966	/	2024/8/11
2	Double Ridged Broadband Horn Antenna	Schwarzbeck	BBHA 9120D	1911	2026/7/07
3	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	869	2024/7/07
4	Amplifier	Agilent	8449B	3008A01838	2024/7/04
5	Amplifier	HP	8447E	2945A02747	2024/7/04
6	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESPI7	100362	2024/7/04
7	Coaxial cable	ETS	RFC-SNS-100-NMS-80 NI	/	2024/7/04
8	Coaxial cable	ETS	RFC-SNS-100-NMS-20 NI	/	2024/7/04
9	Coaxial cable	ETS	RFC-SNS-100-SMS-20 NI	/	2024/7/04
10	Coaxial cable	ETS	RFC-NNS-100-NMS-300 NI	/	2024/7/04
11	EZ-EMC	Frad	EMC-con3A1.1	/	/

6. Conducted Emission

6.1. Limit

Except for Class A devices:

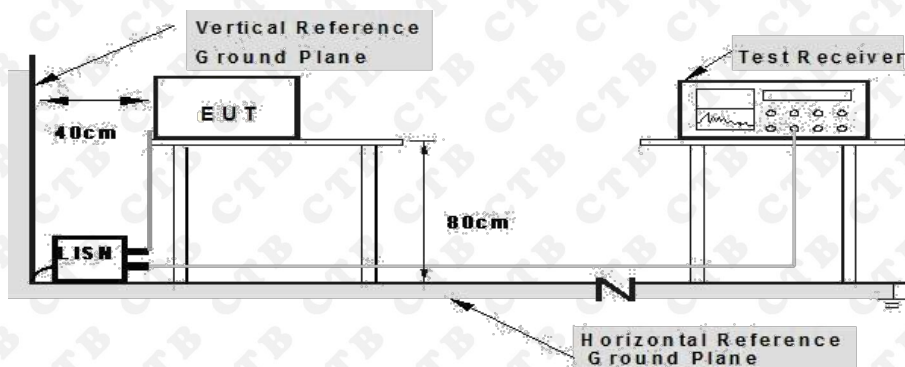
Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Note: Decreases with the logarithm of the frequency.

For Class A devices:

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	79	66
0.5-30	73	60

6.2. 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

The setup of EUT is according with ANSI C63.4 measurement procedure. Specification used with FCC Part 15 limits.

6.3. EMI test receiver setup

Frequency Range	9kHz-30MHz
Resolution Bandwidth	200Hz (9kHz-150kHz) 9kHz (150kHz-30MHz)

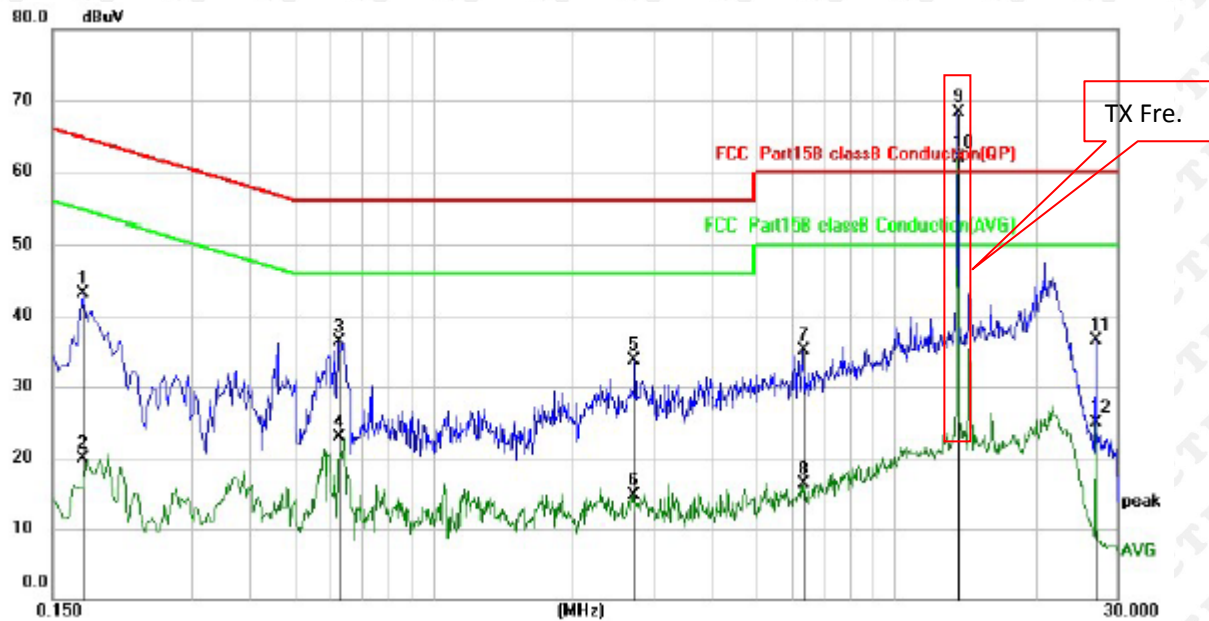
6.4. Test procedure

1. Measurement was performed in shielded room, and instruments used were followed clause 4 of ANSI C63.4.
2. Detailed test procedure was following clause 7 of ANSI C63.4.
3. Frequency range 150kHz – 30MHz was checked and EMI receiver measurement bandwidth was

set to 9 kHz.

6.5. Test results

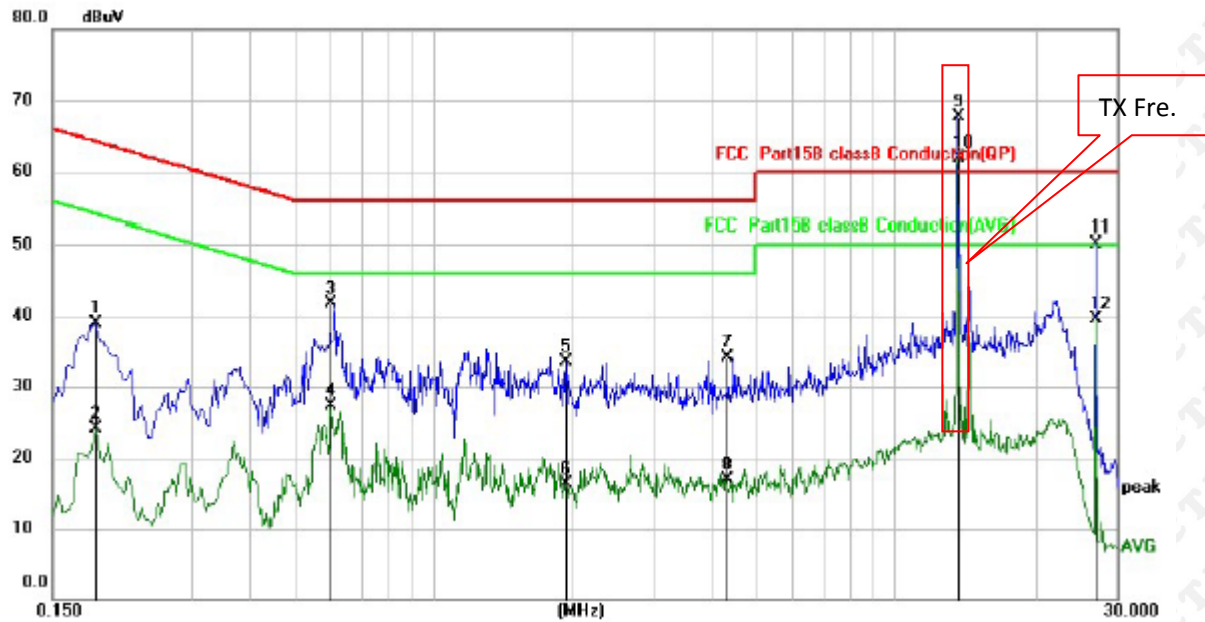
Temperature:	23°C	Relative Humidity:	54 %
Pressure:	101kPa	Phase :	Line
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV	dBuV	dB	
1		0.1739	33.09	9.95	43.04	64.77	-21.73	QP
2		0.1739	10.03	9.95	19.98	54.77	-34.79	AVG
3		0.6260	26.22	10.01	36.23	56.00	-19.77	QP
4		0.6260	12.92	10.01	22.93	46.00	-23.07	AVG
5		2.7100	23.46	10.16	33.62	56.00	-22.38	QP
6		2.7100	4.53	10.16	14.69	46.00	-31.31	AVG
7		6.3219	24.62	10.47	35.09	60.00	-24.91	QP
8		6.3219	5.82	10.47	16.29	50.00	-33.71	AVG
9	X	13.5619	57.69	10.69	68.38	60.00	8.38	peak
10	*	13.5619	51.19	10.69	61.88	50.00	11.88	AVG
11		27.1179	25.23	11.19	36.42	60.00	-23.58	peak
12		27.1179	13.77	11.19	24.96	50.00	-25.04	AVG

Note: Result=Reading + Factor
Over Limit=Result - Limit

Temperature:	23°C	Relative Humidity:	54 %
Pressure:	101kPa	Phase :	Neutral
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	dBuV	Factor	dBuV	dBuV	dB	Detector
1		0.1860	28.92	9.95	38.87	64.21	-25.34	QP
2		0.1860	14.18	9.95	24.13	54.21	-30.08	AVG
3		0.5980	31.65	10.00	41.65	56.00	-14.35	QP
4		0.5980	17.21	10.00	27.21	46.00	-18.79	AVG
5		1.9380	23.38	10.08	33.46	56.00	-22.54	QP
6		1.9380	6.31	10.08	16.39	46.00	-29.61	AVG
7		4.3259	23.82	10.31	34.13	56.00	-21.87	QP
8		4.3259	6.59	10.31	16.90	46.00	-29.10	AVG
9	X	13.5620	56.96	10.69	67.65	60.00	7.65	peak
10	*	13.5620	51.30	10.69	61.99	50.00	11.99	AVG
11		27.1260	38.97	11.19	50.16	60.00	-9.84	peak
12		27.1260	28.38	11.19	39.57	50.00	-10.43	AVG

Note: Result=Reading + Factor
Over Limit=Result – Limit

7. Radiated emissions

7.1. Limit

Except for Class A devices (at 3m):

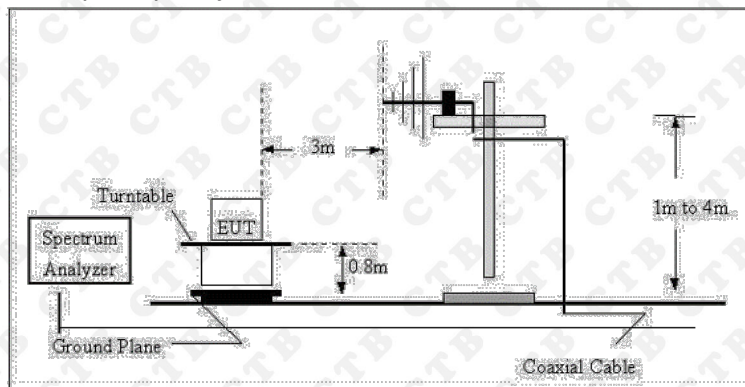
Frequency of emission (MHz)	Field strength (microvolts/meter)	
	(microvolts/meter)	(dB μ V/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

For Class A devices (at 10m):

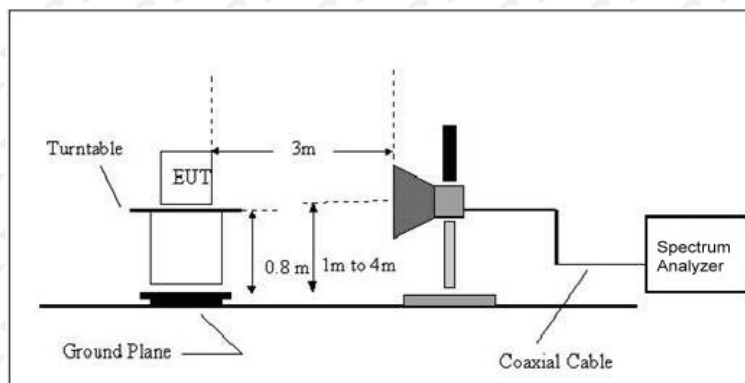
Frequency of emission (MHz)	Field strength (microvolts/meter)	
	(microvolts/meter)	(dB μ V/m)
30-88	90	39
88-216	150	43.5
216-960	210	46.4
Above 960	300	49.5

7.2. Test setup

Radiated Emission Test Set-Up Frequency Below 1 GHz



Radiated Emission Test Set-Up Frequency Above 1GHz



The radiated tests were performed in 3 meter Chamber test site, using the setup accordance with the ANSI C63.4:2014.

7.3. EMI test receiver setup and spectrum analyzer setup

During the radiated emission test, the EMI test receiver and Spectrum Analyzer were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30MHz-1000MHz	100kHz	300kHz	120kHz	QP
Above 1GHz	1MHz	3MHz	/	PK
	1MHz	10Hz	/	AVG

7.4. Test procedure

1. The measurement was performed in a semi-anechoic chamber, and instruments used were followed clause 4 of ANSI C63.4
2. Detailed test procedure was following clause 8 of ANSI C63.4.

7.5. Corrected Amplitude & Margin Calculation

1. The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

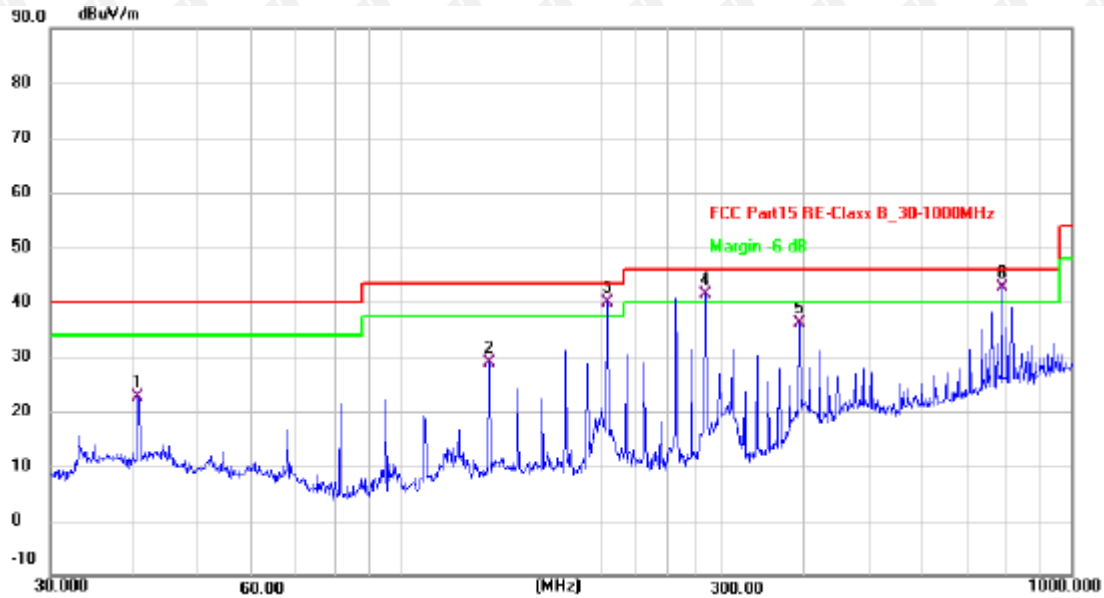
$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

2. The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

7.6. Test results

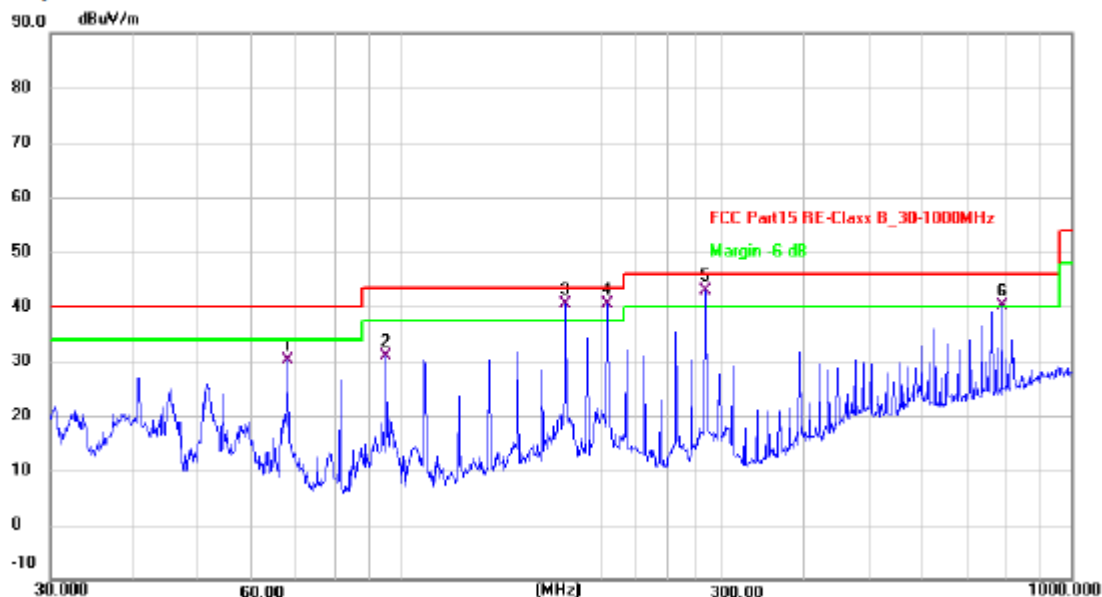
Temperature:	23°C	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	40.5591	40.43	-17.89	22.54	40.00	-17.46	QP
2	135.5061	47.31	-18.41	28.90	43.50	-14.60	QP
3 !	203.5227	60.45	-20.54	39.91	43.50	-3.59	QP
4 !	284.9767	59.42	-18.01	41.41	46.00	-4.59	QP
5	393.4723	52.02	-15.77	36.25	46.00	-9.75	QP
6 *	787.8512	48.50	-5.88	42.62	46.00	-3.38	QP

Note: Result=Reading+Factor
Over Limit=Result-Limit

Temperature:	23°C	Relative Humidity:	54 %
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	67.6751	48.18	-18.08	30.10	40.00	-9.90	QP
2	94.7600	52.05	-21.21	30.84	43.50	-12.66	QP
3 !	176.2684	57.94	-17.59	40.35	43.50	-3.15	QP
4 !	203.5226	57.42	-17.09	40.33	43.50	-3.17	QP
5 *	284.9766	58.37	-15.41	42.96	46.00	-3.04	QP
6 !	787.8510	40.20	-0.13	40.07	46.00	-5.93	QP

Note: Result=Reading+Factor
Over Limit=Result-Limit

8. Photographs of test setup

RE

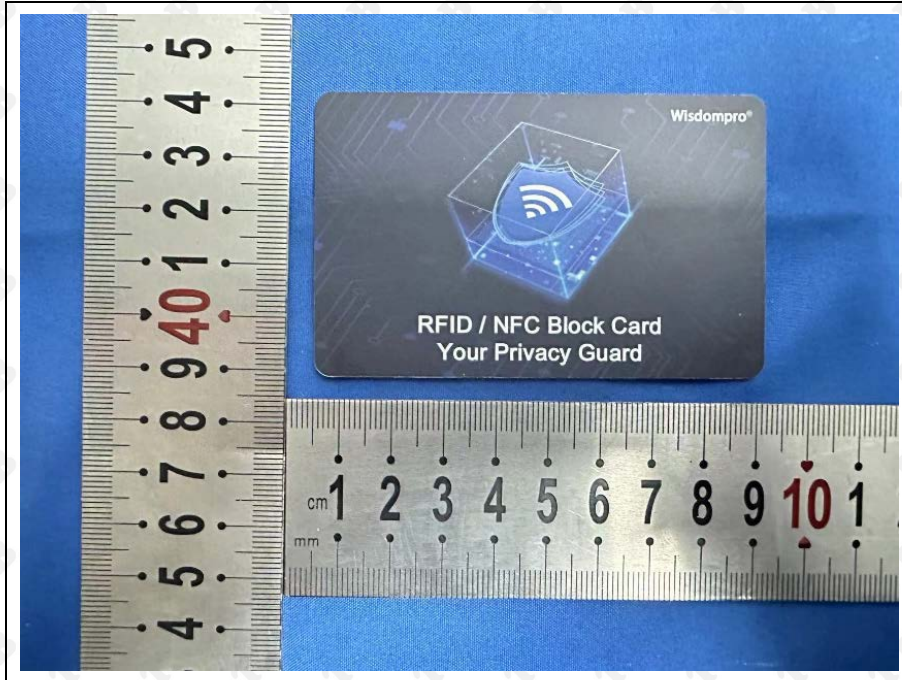


CE

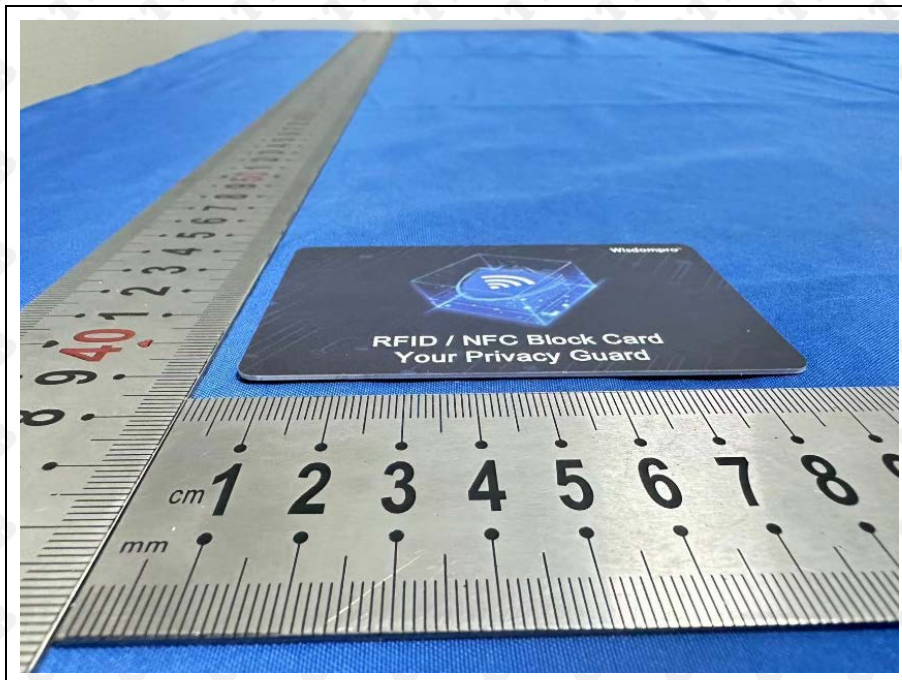


9. Photographs of EUT

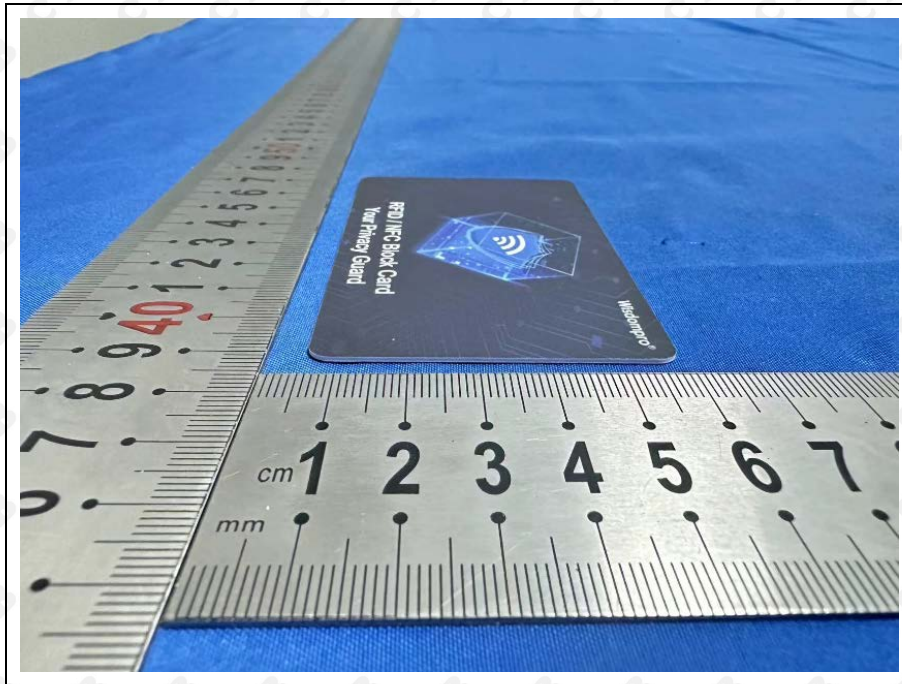
EUT photo 1



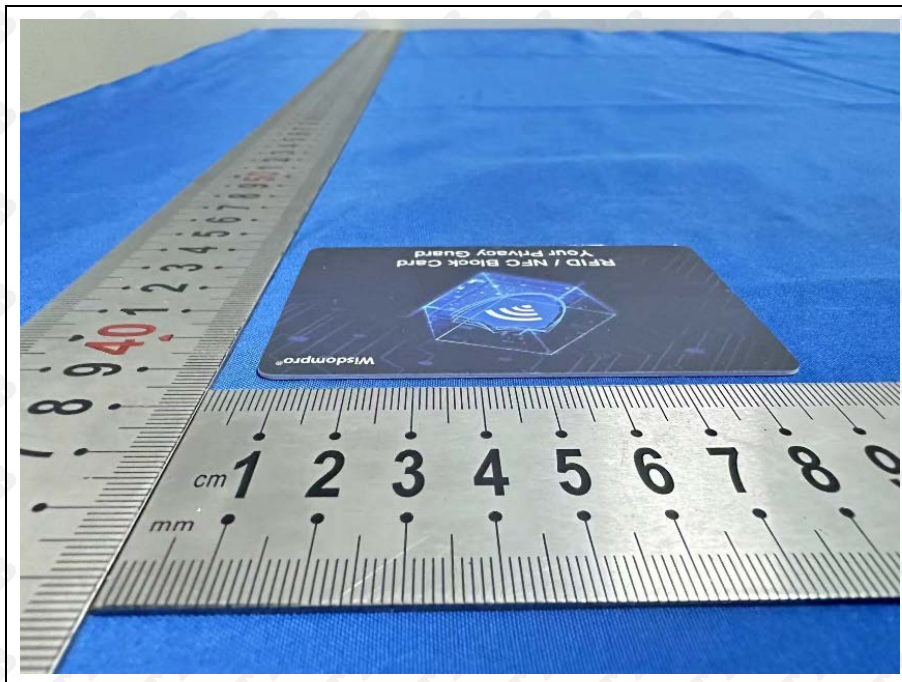
EUT photo 2



EUT photo 3



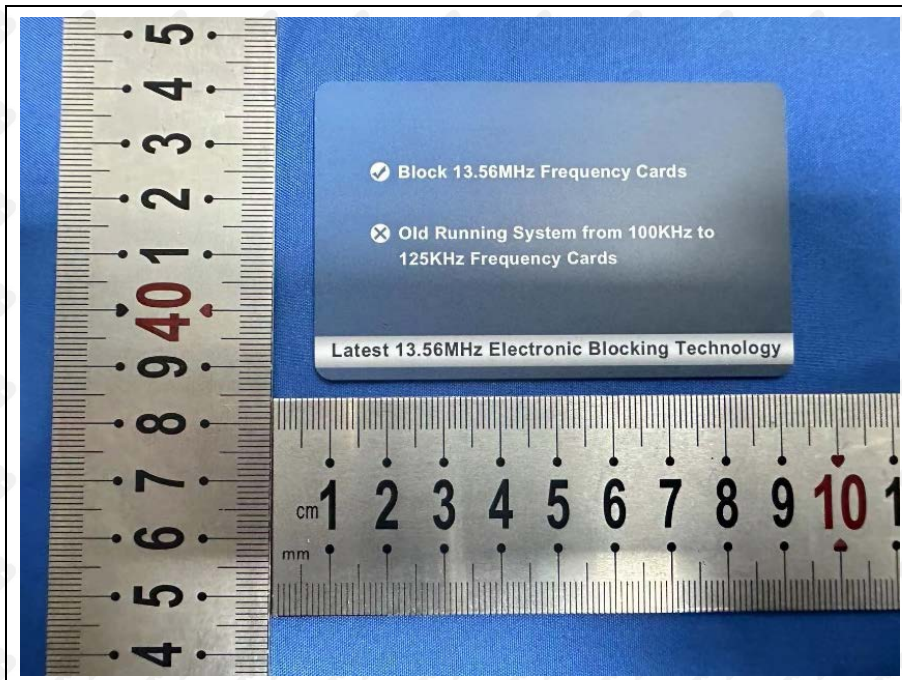
EUT photo 4



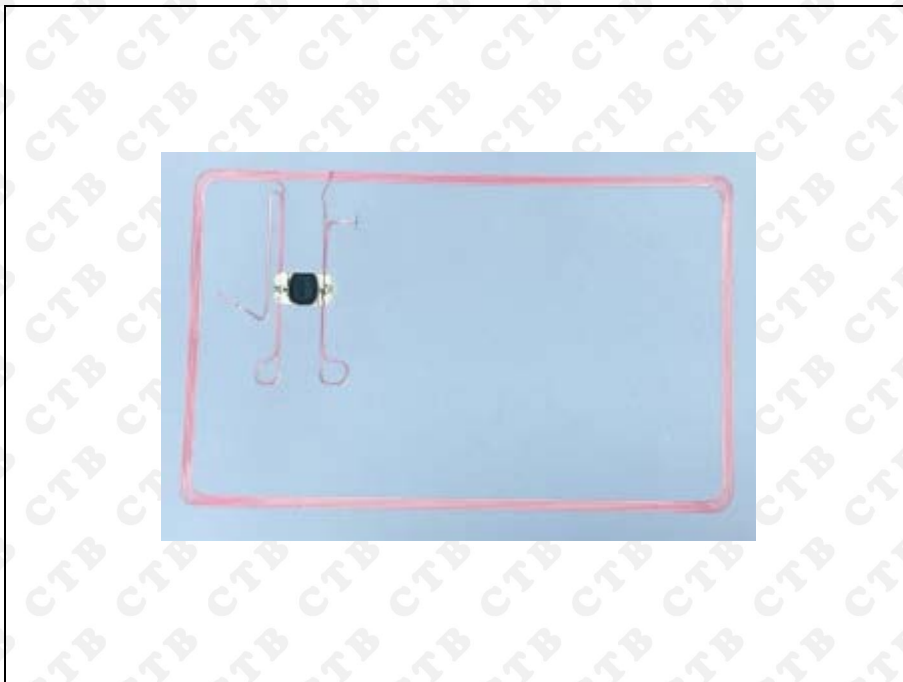
EUT photo 5



EUT photo 6



EUT photo 7



EUT photo 8



End of report