FCC Test Report

APPLICANT : Shenzhen Tinno Mobile Technology Corp.

EQUIPMENT : Watch
MODEL NAME : UW538AA

FCC ID : XD6UW538AA

STANDARD : 47 CFR Part 15 Subpart B

CLASSIFICATION: Certification

TEST DATE(S) : May 16, 2024 ~ May 21, 2024

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

JasonJia

Approved by: Jason Jia





Report No. : FC431213

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

Sporton International Inc. (ShenZhen)

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC431213	Rev. 01	Initial issue of report	Jun. 18, 2024

Sporton International Inc. (ShenZhen)

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	14.97 dB at
					0.66 MHz
					Under limit
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	13.01 dB at
					42.61 MHz

Conformity Assessment Condition:

The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. Please refer to each test results in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

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1. General Description

1.1. Applicant

Shenzhen Tinno Mobile Technology Corp.

27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC

Report No.: FC431213

1.2. Manufacturer

Shenzhen Tinno Mobile Technology Corp.

27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen ,PRC

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	Watch
Model Name	UW538AA
FCC ID	XD6UW538AA
EUT supports Radios application	LTE WLAN 2.4GHz 802.11b/g/n HT20 Bluetooth BR/EDR/LE GNSS
IMEI Code	Conduction: 864796070007784 for Sample 1 864796070010135 for Sample 2 Radiation: 864796070007693 for Sample 1 864796070011406 for Sample 2
HW Version	V1.0
SW Version	UW538AAV01.08.10
EUT Stage	Identical Prototype

Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. There are two type of EUT. The difference between them is EUT materials: sample 1 is 1st source materials, Sample 2 is 2nd source materials. According to the difference, we chose sample 1 to perform full test and sample 2 to verify the worst cases of sample 1

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1.4. Product Specification of Equipment Under Test

Stan	Standards-related Product Specification				
Tx Frequency	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 66: 1710 MHz ~ 1780 MHz 802.11b/g/n: 2400 MHz ~ 2483.5 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz				
Rx Frequency	LTE Band 2: 1930 MHz ~ 1990 MHz LTE Band 4: 2110 MHz ~ 2155 MHz LTE Band 5: 869 MHz ~ 894 MHz LTE Band 12: 729 MHz ~ 746 MHz LTE Band 66: 2110 MHz~ 2180 MHz 802.11b/g/n: 2400 MHz ~ 2483.5 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz GNSS: 1559 MHz ~ 1610 MH				
Antenna Type	WWAN: LDS Antenna WLAN: LDS Antenna Bluetooth: LDS Antenna GNSS: LDS Antenna				
Type of Modulation	LTE: QPSK 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth LE: GFSK Bluetooth (1Mbps): GFSK Bluetooth (2Mbps): π/4-DQPSK Bluetooth (3Mbps): 8-DPSK GNSS: BPSK				

1.5. Modification of EUT

No modifications are made to the EUT during all test items.

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1.6. Test Location

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

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Test Firm	Sporton International Inc. (Shenzhen)						
	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan,						
Test Site Location	Shenzhen, 518055 Peop	le's Republic of China					
rest ofte Location	TEL: +86-755-86379589						
	FAX: +86-755-86379595						
	Sporton Sito No	FCC Designation No.	FCC Test Firm				
Test Site No.	Sporton Site No.	FCC Designation No.	Registration No.				
	CO01-SZ CN1256 421272						

Test Firm	Sporton International Inc. (Shenzhen)					
	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang					
Test Site Location	Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong					
rest site Location	Province 518103 People's Republic of China					
	TEL: +86-755-86066985					
	Consistent Cita Na	FOO Designation No.	FCC Test Firm			
Test Site No.	Sporton Site No.	FCC Designation No.	Registration No.			
	03CH05-SZ	CN1256	421272			

1.7. Test Software

Item Site		Site Manufacturer Name		Name	Version
	1.	03CH05-SZ	AUDIX	E3	6.2009-8-24
	2.	CO01-SZ	AUDIX	E3	6.120613b

1.8. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart B
- ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
	Mode 1: LTE Cat.1 Band 5 Idle (Middle CH) + Camera(Front) + E-SIM + USB Cable (Charging from charging stand + Adapter) + Battery for Sample 1
AC Conducted Emission	Mode 2: LTE Cat.1 Band 12 Idle(High CH) + Camera(Front) + E-SIM + USB Cable (Charging from charging stand + Adapter) + Battery for Sample 1
	Mode 3: LTE Cat.1 Band 5 Idle (Middle CH) + Camera(Front) + E-SIM + USB Cable (Charging from charging stand + Adapter) + Battery for Sample 2
	Mode 1: LTE Cat.1 Band 5 Idle (Middle CH) + Camera(Front) + E-SIM + USB Cable (Charging from charging stand + Adapter) + Battery for Sample 1
Radiated Emissions	Mode 2: LTE Cat.1 Band 12 Idle(High CH) + Camera(Front) + E-SIM + Battery for Sample 1
	Mode 3: LTE Cat.1 Band 5 Idle (Middle CH) + Camera(Front) + E-SIM + USB Cable (Charging from charging stand + Adapter) for Sample 2

Remark:

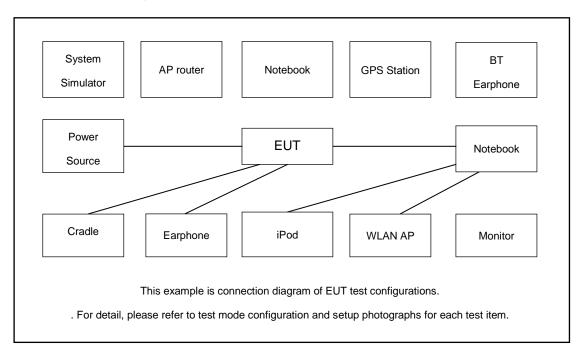
- 1. The worst case of AC is mode 1; only the test data of this mode is reported.
- **2.** The worst case of RE is mode 1; only the test data of this mode is reported.
- **3.** Pre-scanned Low/Middle/High channel for LTE B5/12, the worst channel was recorded in this report.

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2.2. Connection Diagram of Test System



The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application

2.3. Support Unit used in test configuration and system

Ite	em Ec	quipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1	. Ва	ase Station	Anritsu	CWM500	N/A	N/A	Unshielded,1.8m

2.4. EUT Operation Test Setup

The EUT was in LTE idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

1. Turn on camera.

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3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

<Class B Limit>

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

^{*}Decreases with the logarithm of the frequency.

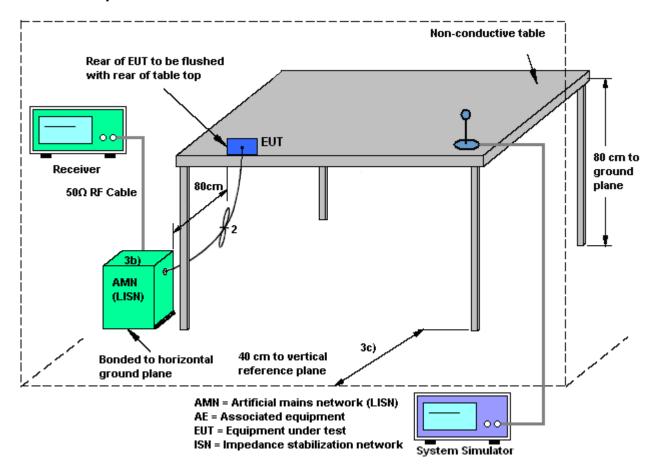
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

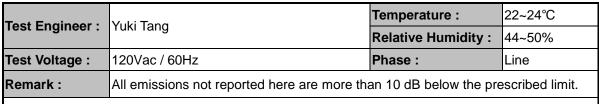
3.1.4 Test Setup

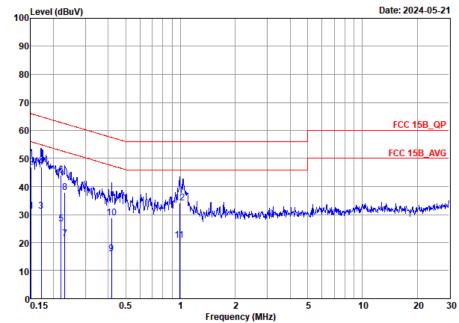


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3.1.5 Test Result of AC Conducted Emission





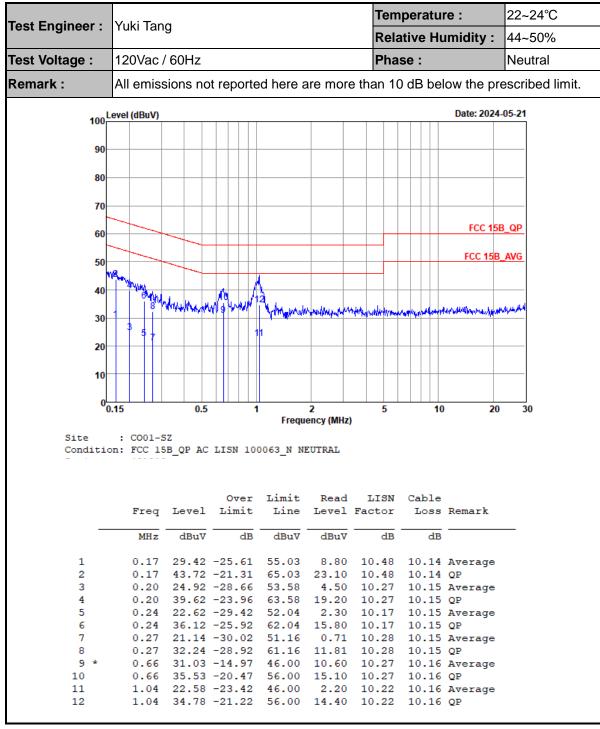
Site : CO01-SZ Condition: FCC 15B_QP AC LISN 100063_L LINE

			Over	Limit	Read	LISN	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBu₹	dB	dB	
_								
1	0.15	31.32	-24.64	55.96	10.81	10.38	10.13	Average
2	0.15	46.82	-19.14	65.96	26.31	10.38	10.13	QP
3	0.17	31.18	-23.72	54.90	10.80	10.24	10.14	Average
4 *	0.17	46.98	-17.92	64.90	26.60	10.24	10.14	QP
5	0.22	26.68	-26.11	52.79	6.20	10.33	10.15	Average
6	0.22	43.98	-18.81	62.79	23.50	10.33	10.15	QP
7	0.23	21.40	-30.99	52.39	1.00	10.25	10.15	Average
8	0.23	37.80	-24.59	62.39	17.40	10.25	10.15	QP
9	0.42	15.87	-31.64	47.51	-4.70	10.41	10.16	Average
10	0.42	28.77	-28.74	57.51	8.20	10.41	10.16	QP
11	0.99	20.83	-25.17	46.00	0.40	10.27	10.16	Average
12	0.99	34.22	-21.78	56.00	13.79	10.27	10.16	QP

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Note:

- 1. Level($dB\mu V$) = Read Level($dB\mu V$) + LISN Factor(dB) + Cable Loss(dB)
- 2. Over Limit(dB) = Level(dB μ V) Limit Line(dB μ V)

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3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

<Class B Limit>

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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3.2.3. Test Procedures

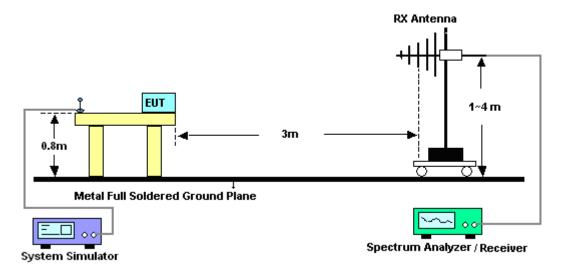
- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, 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.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 10. Exploratory radiated emissions testing of handheld and/or body-worn devices shall include rotation of the EUT through three orthogonal axes (X/Y/Z Plane) to determine the orientation (attitude) that maximizes the emissions.

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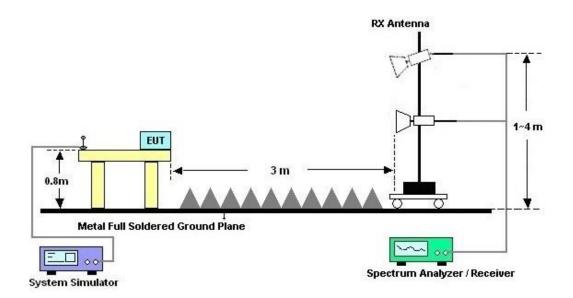
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



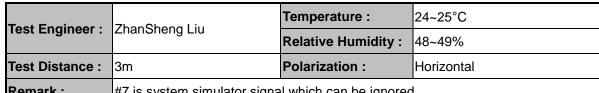
For radiated emissions above 1GHz



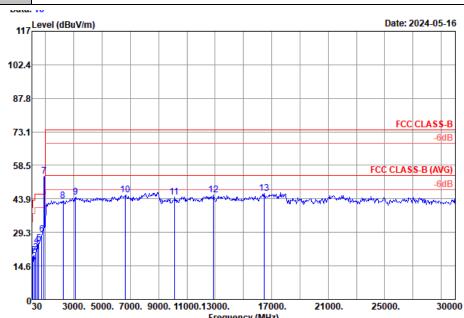
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3.2.5. Test Result of Radiated Emission



#7 is system simulator signal which can be ignored. Remark:



Site : 03CH05-SZ

Condition : FCC CLASS-B 3m VULB9168-01001 HORIZONTAL

	Freq	Level	Over Limit	Limit Line		ntenna Factor		Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	59.10	18.53	-21.47	40.00	32.63	19.26	1.74	35.10			Peak
2	181.32	19.08	-24.42	43.50	34.36	17.14	2.52	34.94			Peak
3	311.30	20.62	-25.38	46.00	32.53	19.68	3.26	34.85			Peak
4	386.96	23.47	-22.53	46.00	33.45	21.31	3.34	34.63			Peak
5	506.27	24.41	-21.59	46.00	31.86	23.84	3.40	34.69			Peak
6	727.43	28.21	-17.79	46.00	31.09	27.78	3.73	34.39			Peak
7 *	881.50	53.81			54.51	29.09	4.41	34.20			Peak
8	2240.00	42.99	-31.01	74.00	53.53	32.93	6.87	50.34			Peak
9	3120.00	44.54	-29.46	74.00	51.86	33.82	8.69	49.83			Peak
10	6648.00	45.48	-28.52	74.00	47.04	36.90	10.82	49.28			Peak
11	10116.00	44.72	-29.28	74.00	41.03	39.12	13.51	48.94			Peak
12	12888.00	45.47	-28.53	74.00	37.85	40.21	14.10	46.69			Peak
13	16443.00	46.18	-27.82	74.00	39.48	42.95	15.42	51.67			Peak

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_ ,	71 01				Temp	eratuı	re:	2	24~25°	С		
Test Engineer :	ZhanShen	•	Relative Humidity :			y: 4	48~49%					
Test Distance :	3m		Polarization :			\	Vertical					
Remark :	#7 is syste	em sim	ulator	signa	l whicl	h can	be igr	ored.				
	117 Level (dB	luV/m)							Date: 2024-05-16			
	102.4											
	87.8											
	73.1								FC	CLASS.	B	
	73.1									-60	B	
	58.5								FC¢ CLA	SS_R (AV	3)	
		0	9 1	0	12	10			TCCCLA	-6d	-	
	43.9	and the second	Market Market Market	11 14	and the same	Mary Laborator	Mayon	- MARINA		~~~~~	, , ,	
	ľľ											
	29.3											
	446											
	14.6											
	0											
	030 30	000. 5000.	7000. 9	000. 11000		17000 ncy (MHz)	0. 2	1000.	25000.	30	0000	
5	ite	: 03 <i>C</i> F	405-SZ									
C	ondition	: F <i>CC</i>	CLASS-	B 3m VUI	LB9168-	01001 V	ERTICA	L				
			0ver	Limit	ReadA	ntenna	Cable	Preamp	A/Pos	T/Pos		
	Freq	Level	Limit	Line		Factor		Factor			Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
	1 42.61	26.99	-13.01	40.00	41.12	19.42	1.48	35.03			Peak	
	2 159.01	19.67	-23.83	43.50	33.63	18.65	2.37	34.98			Peak	
		19.67			33.70	17.85		34.90			Peak	
		22.37 23.97			33.03 32.27	20.60 22.93	3.42 3.46				Peak Peak	
	6 526.64	25.67			32.78	24.10	3.44	34.65			Peak	
		52.05	20 00	7/ 00	52.75	29.09		34.20			Peak	
	8 3328.00 9 6320.00				52.14 47.74	34.03 36.83		49.70 48.94			Peak Peak	
1	10 8640.00				45.54	38.01		49.64			Peak	
	10179.00				40.36	39.18	13.51				Peak	
	12 13581.00 13 14931.00				38.27 38.82	40.65 41.53	14.40 15.44	47.11 50.57			Peak Peak	
· ·						,		-5.57				

Note:

- 1. Level($dB\mu V/m$) = Read Level($dB\mu V$) + Antenna Factor(dB/m) + Cable Loss(dB) Preamp Factor(dB)
- 2. Over Limit(dB) = Level(dB μ V/m) Limit Line(dB μ V/m)

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESR7	102261	9kHz~7GHz	Apr. 09, 2024	May 16, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071191	10Hz~44GHz	Apr. 09, 2024	May 16, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
Log-periodic Antenna	SCHWARZBE CK	VULB 9168	01001	20MHz~1.5GHz	Jul. 08, 2023	May 16, 2024	Jul. 07, 2024	Radiation (03CH05-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz ~3000MHz	Apr. 09, 2024	May 16, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120D	9120D-2206	1GHz~18GHz	Apr. 09, 2024	May 16, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
HF Amplifier	EM Electronics	EM01G18GA	060781	1GHz~18GHz	Apr. 09, 2024	May 16, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
HF Amplifier	EM Electronics	EM18G40G	060778	18GHz~40GHz	Apr. 09, 2024	May 16, 2024	Apr. 08, 2025	Radiation (03CH05SZ)
Horn Antenna	SCHWARZBE CK	BBHA9170	00983	15GHz~40GHz	Apr. 09, 2024	May 16, 2024	Apr. 08, 2025	Radiation (03CH05-SZ)
AC Power Source	APC	AFV-S-600	F119050013	N/A	Oct. 18, 2023	May 16, 2024	Oct. 17, 2024	Radiation (03CH05-SZ)
Turn Table	EMEC	T-200-S-1	060925-T	0~360 degree	NCR	May 16, 2024	NCR	Radiation (03CH05-SZ)
Antenna Mast	EMEC	MBS-400-1	060927	1 m~4 m	NCR	May 16, 2024	NCR	Radiation (03CH05-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 06, 2023	May 21, 2024	Jul. 05, 2024	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Aug. 21, 2023	May 21, 2024	Aug. 20, 2024	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 16, 2023	May 21, 2024	Oct. 15, 2024	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 07, 2023	May 21, 2024	Jul. 06, 2024	Conduction (CO01-SZ)

NCR: No Calibration Required

Sporton International Inc. (ShenZhen)

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5. Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	2.5 dB
of 95% (U = 2Uc(y))	2.3 UB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	4.2 dB
of 95% (U = 2Uc(y))	4.2 UB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence	5.1 dB
of 95% (U = 2Uc(y))	3.1 UB

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence	4.1 dB
of 95% (U = 2Uc(y))	4.1 dB

----- THE END -----

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