FCC Test Report

APPLICANT : Ascom (Sweden) AB

EQUIPMENT: Myco 4 WiFi, Myco 4 Slim

BRAND NAME : ascom

MODEL NAME : SH4-AABC, SH4-AABB, SH4-ABBC, SH4-ABBB

FCC ID : BXZSH4

STANDARD : 47 CFR Part 15 Subpart B

CLASSIFICATION: Certification

TEST DATE(S) : Mar. 08, 2023 ~ May 22, 2023

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.: FC2D0705

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
FC2D0705	Rev. 01	Initial issue of report	Jun. 27, 2023

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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	5.13 dB at
					0.16 MHz
					Under limit
3.2	15.109 Radiat	Radiated Emission	< 15.109 limits	PASS	3.35 dB at
					30.00 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

Ascom (Sweden) AB

Grimbodalen 2, SE-417 49 Gothenburg, Sweden

1.2. Manufacturer

Ascom (Sweden) AB

Grimbodalen 2, SE-417 49 Gothenburg, Sweden

1.3. Product Feature of Equipment Under Test

	Product Feature	
Equipment	Myco 4 WiFi, Myco 4 Slim	
Brand Name	ascom	
Model Name	SH4-AABC, SH4-AABB, SH4-ABBC, SH4-ABBB	
FCC ID	BXZSH4	
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ac VHT20/VHT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 6GHz 802.11a WLAN 6GHz 802.11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE NFC	
SN Code	Conduction: 32fa7a52 for Sample 1 dd5e72ed for Sample 2 3862b4ae for Sample 3 Radiation: JS2250551849 for Sample 1 TI00000461 for Sample 2 TI00000630 for Sample 3	
HW Version	V0.50	
SW Version	SH4_ASCOM_A12	
EUT Stage	Production Unit	

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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 SKUs under test, SKU 2 and SKU 3. The differences can be referred to the SH4-AABC, SH4-AABB, SH4-ABBC, SH4-ABBB_Operational Description of Product Equality Declaration which is exhibit separately. Each SKU has different IR/Scanner/Antenna configurations, the detailes are shown as below. According to the differences, we choose SKU2_Sample 1 to perform full test, and SKU2_Sample 2 & SKU3_Sample 3 verify the worst case.

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SKU	IR	Scanner	2.4G BT/WIFI Antenna
SKU2_Sample 1	Yes	Yes	Same
SKU2_Sample 2	No	Yes	Same
SKU3_Sample 3	No	No	Different

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1.4. Product Specification of Equipment Under Test

Stan	Standards-related Product Specification				
	802.11b/g/n/ac/ax: 2400 MHz ~ 2483.5 MHz				
	802.11a/n/ac/ax: 5150 MHz ~ 5250 MHz;				
	5250 MHz ~ 5350 MHz;				
Tx Frequency	5470 MHz ~ 5725 MHz;				
TX T requericy	5725 MHz ~ 5850 MHz				
	802.11a/ax: 5925 MHz ~ 7125 MHz				
	Bluetooth: 2400 MHz ~ 2483.5 MHz				
	NFC : 13.56 MHz				
	802.11b/g/n/ac/ax: 2400 MHz ~ 2483.5 MHz				
	802.11a/n/ac/ax: 5150 MHz ~ 5250 MHz;				
	5250 MHz ~ 5350 MHz;				
Rx Frequency	5470 MHz ~ 5725 MHz;				
KX Tequelicy	5725 MHz ~ 5850 MHz				
	802.11a/ax: 5925 MHz ~ 7125 MHz				
	Bluetooth: 2400 MHz ~ 2483.5 MHz				
	NFC : 13.56 MHz				
	WLAN: PIFA Antenna				
Antenna Type	Bluetooth : PIFA Antenna				
	NFC: FPC+FERRITE Antenna				
	802.11b: DSSS (DBPSK / DQPSK / CCK)				
	802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)				
	802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)				
	802.11ax: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM				
Type of Madulation	/1024QAM)				
Type of Modulation	Bluetooth LE : GFSK				
	Bluetooth (1Mbps) : GFSK				
	Bluetooth (2Mbps) :π/4-DQPSK				
	Bluetooth (3Mbps) : 8-DPSK				
	NFC: ASK				

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)				
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589				
	FAX: +86-755-86379595				
	Sporton Site No.	FCC Designation No	FCC Test Firm		
Test Site No.	Sporton Site No.	rcc 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 Province				
rest site Location	China 518103				
	TEL: +86-755-33202398				
	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		Manufacturer	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: Camera(Front) + USB Cable (Charging from Adapter) + Battery for Sample 1
	Mode 2: Camera(Rear) + USB Cable (Charging from Adapter) + Battery for Sample 1
	Mode 3: MPEG4(Color Bar) + USB Cable (Data Link with Notebook) + Battery +(EUT (eMMC) to NB) for Sample 1
AC Conducted Emission	Mode 4: Barcode Scan + USB Cable (Data Link with Notebook) + Battery + (Notebook to EUT (eMMC))for Sample 1
	Mode 5: IR Receiver + Charging from Cradle + Battery for Sample 1
	Mode 6: MPEG4(Color Bar) + USB Cable (Data Link with Notebook) + Battery +(EUT (eMMC) to Notebook) for Sample 2
	Mode 7: MPEG4(Color Bar) + USB Cable (Data Link with Notebook) + Battery +(EUT (eMMC) to Notebook) for Sample 3
	Mode 1: Camera(Front) + USB Cable(Charging from Adapter) + Battery for Sample 1
	Mode 2: Camera(Rear) + USB Cable(Charging from Adapter) + Battery for Sample 1
Radiated	Mode 3: MPEG4(Color Bar) + USB Cable (Data Link with Notebook) + Battery + (EUT (eMMC) to Notebook) for Sample 1
Emissions	Mode 4: Barcode Scan + USB Cable (Data Link with Notebook) + Battery + (Notebook to EUT (eMMC)) for Sample 1
	Mode 5: IR Receiver + Charging from Cradle + Battery for Sample 1
	Mode 6: MPEG4(Color Bar) + Type C Earphone + Battery for Sample 1
	Mode 7: MPEG4(Color Bar) + Charging from Cradle + Battery for Sample 2
	Mode 8: IR Receiver + Charging from Cradle + Battery for Sample 3

Remark:

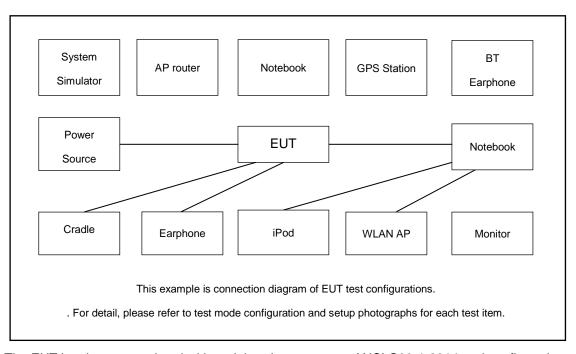
- 1. The worst case of AC is mode 7; only the test data of this mode is reported.
- 2. The worst case of RE is mode 5; only the test data of this mode is reported.
- Data Link with Notebook means data application transferred mode between EUT and Notebook.

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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

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,2.7m
						with Core
2.	NOTE BOOK	Lenovo	E540	FCC DoC	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m	NOTE BOOK
3.	Notebook	DELL	Inspiron 15-7570	Fcc DoC	N/A	shielded cable DC O/P 1.8m Unshielded AC I/P cable 1.8m
4.	Earphone	Apple	MC690ZP/A	N/A	Shielded, 1.0m	N/A
5.	IPod	Apple	MC525 ZP/A	Fcc DoC	Shielded, 1.0m	N/A

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2.4. EUT Operation Test Setup

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

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

- 1. Data application is transferred between notebook and EUT via USB cable.
- 2. Turn on camera to capture images.
- 3. Turn on MPEG4 function.
- 4. Turn on IR Receiving function to make the EUT receive infrared.
- 5. Turn on Scan barcode function.

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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.

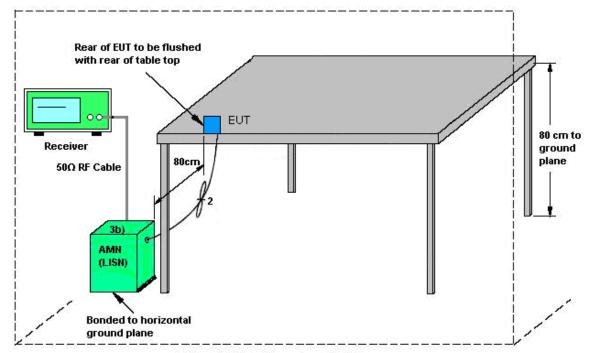
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3.1.4 Test Setup



AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

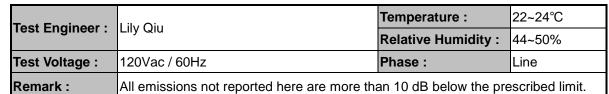
ISN = Impedance stabilization network

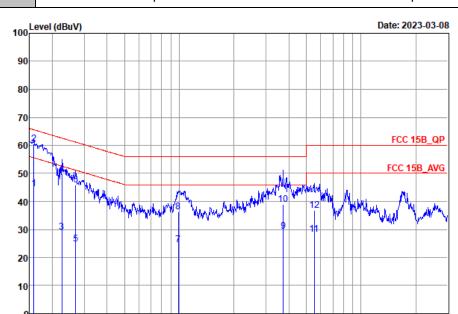
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3.1.5 Test Result of AC Conducted Emission





Frequency (MHz)

Site : COO1-SZ

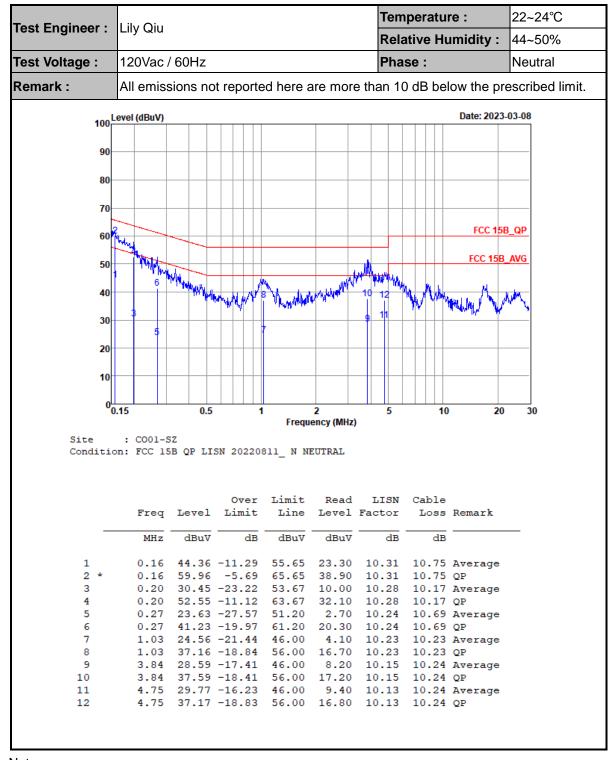
Condition: FCC 15B QP LISN 20220811 L LINE

				Over	Limit	Read	LISN	Cable	
		Freq	Level	Limit	Line	Level	Factor	Loss	Remark
		MHz	dBu∀	dB	dBu∀	dBuV	dB	dB	
1		0.16	44.63	-10.93	55.56	23.70	10.20	10.73	Average
2	*	0.16	60.43	-5.13	65.56	39.50	10.20	10.73	QP
3		0.23	29.07	-23.54	52.61	8.50	10.19	10.38	Average
4		0.23	49.97	-12.64	62.61	29.40	10.19	10.38	QP
5		0.27	24.88	-26.28	51.16	4.00	10.17	10.71	Average
6		0.27	45.98	-15.18	61.16	25.10	10.17	10.71	QP
7		0.99	24.59	-21.41	46.00	4.20	10.12	10.27	Average
8		0.99	36.39	-19.61	56.00	16.00	10.12	10.27	QP
9		3.74	29.36	-16.64	46.00	9.10	10.02	10.24	Average
10		3.74	38.96	-17.04	56.00	18.70	10.02	10.24	QP
11		5.53	28.32	-21.68	50.00	8.10	9.97	10.25	Average
12		5.53	36.72	-23.28	60.00	16.50	9.97	10.25	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 EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest radiation.
- 5. 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.
- 6. 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.
- 7. 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).
- 8. 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.
- 9. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
- 10. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 11. 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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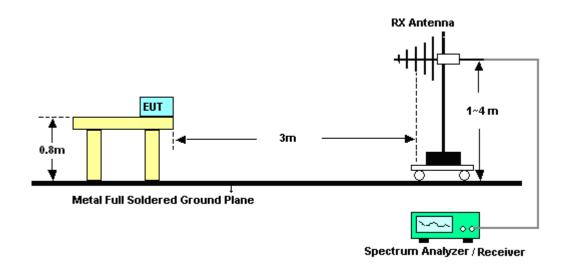
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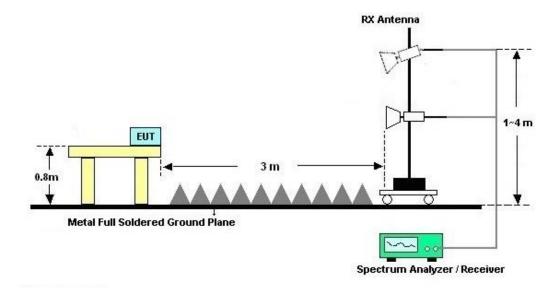
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

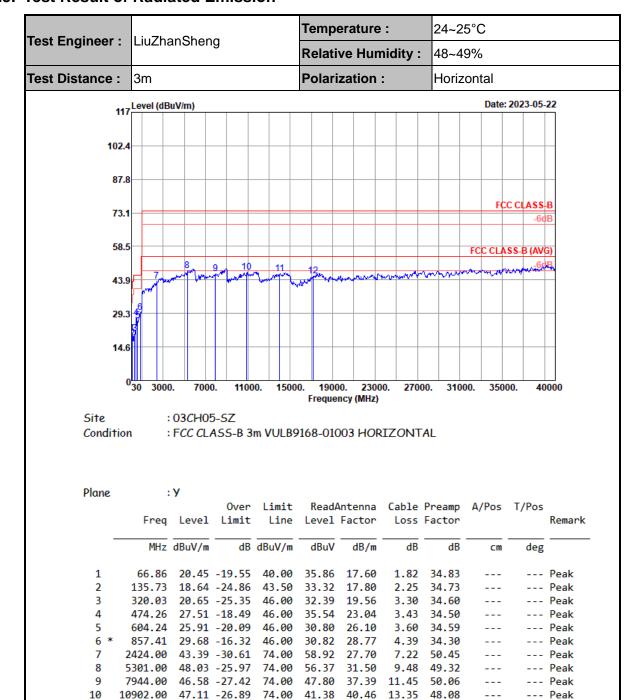


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3.2.5. Test Result of Radiated Emission



14022.00 46.49 -27.51 74.00 38.65 41.06 14.60 47.82

17184.00 45.50 -28.50 74.00 39.64 42.39

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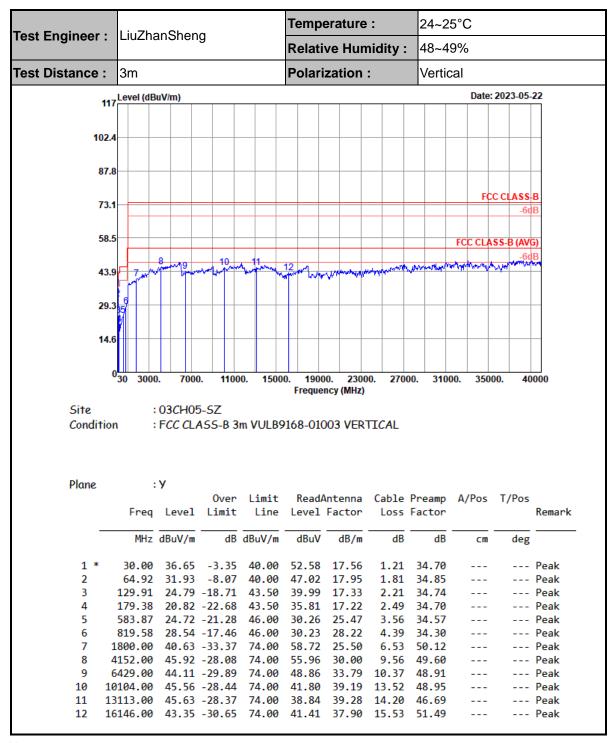
15.24 51.77

--- Peak

--- Peak

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Note:

- 1. Level(dBµV/m) = Read Level(dBµV) + 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 Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 07, 2022	Mar. 08, 2023	Jul. 06, 2023	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Sep. 15, 2022	Mar. 08, 2023	Sep. 14, 2023	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 17, 2022	Mar. 08, 2023	Oct. 16, 2023	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	61602000089 1	100Vac~250Vac	Jul. 07, 2022	Mar. 08, 2023	Jul. 06, 2023	Conduction (CO01-SZ)
EMI Test Receiver	R&S	ESR7	102261	9kHz~7GHz	Apr. 04, 2023	May 22, 2023	Apr. 03, 2024	Radiation (03CH05-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071191	10Hz~44GHz	Apr. 04, 2023	May 22, 2023	Apr. 03, 2024	Radiation (03CH05-SZ)
Log-periodic Antenna	SCHWARZBE CK	VULB 9168	01001	20MHz~1.5GHz	Jun. 28, 2022	May 22, 2023	Jun. 27, 2023	Radiation (03CH05-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz ~3000MHz	Apr. 04, 2023	May 22, 2023	Apr. 03, 2024	Radiation (03CH05-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120D	9120D-2206	1GHz~18GHz	Apr. 04, 2023	May 22, 2023	Apr. 03, 2024	Radiation (03CH05-SZ)
HF Amplifier	EM Electronics	EM01G18GA	060781	1GHz~18GHz	Apr. 04, 2023	May 22, 2023	Apr. 03, 2024	Radiation (03CH05-SZ)
HF Amplifier	EM Electronics	EM18G40G	060778	18GHz~40GHz	Apr. 04, 2023	May 22, 2023	Apr. 03, 2024	Radiation (03CH05SZ)
Horn Antenna	SCHWARZBE CK	BBHA9170	00983	15GHz~40GHz	Apr. 08, 2023	May 22, 2023	Apr. 07, 2024	Radiation (03CH05-SZ)
AC Power Source	APC	AFV-S-600	F119050013	N/A	Nov. 10, 2022	May 22, 2023	Nov. 09, 2023	Radiation (03CH05-SZ)
Turn Table	EMEC	T-200-S-1	060925-T	0~360 degree	NCR	May 22, 2023	NCR	Radiation (03CH05-SZ)
Antenna Mast	EMEC	MBS-400-1	060927	1 m~4 m	NCR	May 22, 2023	NCR	Radiation (03CH05-SZ)

NCR: No Calibration Required

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5. Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence	2.7dB
of 95% (U = 2Uc(y))	2.740

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

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

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

Measuring Uncertainty for a Level of Confidence	5.1dB
of 95% (U = 2Uc(y))	5.10B

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

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

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