



Spot Check Evaluation

APPLICANT : iMozen Group INC.
EQUIPMENT : Handheld mobile computer
BRAND NAME : iMozen Group INC.
MODEL NAME : TC605AW
FCC ID : SPYTC605AW
STANDARD : 47 CFR Part 15 Subpart C §15.225
47 CFR Part 15 Subpart C §15.247
47 CFR Part 15 Subpart E §15.407
TEST DATE(S) : Dec. 23, 2023 ~ Jan. 08, 2024

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures 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. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
3N2109-03	Rev. 01	Initial issue of report	Jan. 29, 2024

Conformity Assessment Condition:

1. 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/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result 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.

1 General Description

1.1 Applicant

iMozen Group INC.

6 F., No. 288, Sec. 6, Civic Blvd., Xinyi Dist., Taipei City 110417, Taiwan (R.O.C.)

1.2 Manufacturer

iMozen Group INC.

6 F., No. 288, Sec. 6, Civic Blvd., Xinyi Dist., Taipei City 110417, Taiwan (R.O.C.)

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Handheld mobile computer
Brand Name	iMozen Group INC.
Model Name	TC605AW
FCC ID	SPYTC605AW
HW Version	V4
SW Version	ST6919A_20231220121856
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Modification of EUT

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

1.5 Testing Site

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH06-KS TH01-KS DFS01-KS	CN1257	314309

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	SPORTON	FCC 15C-15E Test Tools Ver10.0_210607	10.0
2.	TH01-KS	SPORTON	FCC BT2.0 Ver3.0_For_CHINA_190111	3.0
3.	03CH06-KS	AUDIX	E3	210616
4.	DFS01-KS	Sporton	Test Tools	1.0

1.7 Applicable Standards

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

- ♦ FCC KDB 484596 D01 Referencing Test Data v02r02
- ♦ 47 CFR Part 15 Subpart C §15.225
- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ 47 CFR Part 15 Subpart E §15.407
- ♦ ANSI C63.10-2013

2 Re-use of Measured Data

2.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: TC605AW, FCC ID: SPYTC605AW) is electrically identical to the reference device (Model: TC605AN, FCC ID: SPYTC605AN) for the portions of the circuitry corresponding to the data being re-used. Based on their similarity, the FCC Part 15C (equipment class: DTS, DSS, DXX) and FCC Part 15E (equipment class: NII, 6CD) reuse the original model's result and do spot-check, following the FCC KDB 484596 D01 Referencing Test Data v02r02.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: SPYTC605AW .

2.2 Model Difference Information

The **main** difference between FCC ID: SPYTC605AN and FCC ID: SPYTC605AW is as below:

- Remove WWAN Bands.

Other differences and all the details of similarity and difference can be found in the confidential documents (TC605AW_Operational Description of Product Equality Declaration).

2.3 Reference detail Section:

Rule Part	Equipment Class	Frequency Band (MHz)	Reference FCC ID (Parent)	Type Grant/Permissive Change	Reference Title	FCC ID Filling (Variant)	Report Title/Section
15C	DSS (BR/EDR)	2400~2483.5	SPYTC605AN	Original Grant	FR3N2109-02A	SPYTC605AW	All sections applicable
	DTS (BLE)	2400~2483.5	SPYTC605AN	Original Grant	FR3N2109-02B	SPYTC605AW	All sections applicable
	DTS (WLAN)	2400~2483.5	SPYTC605AN	Original Grant	FR3N2109-02C	SPYTC605AW	All sections applicable
	DXX (NFC)	13.56	SPYTC605AN	Original Grant	FR3N2109-02D	SPYTC605AW	All sections applicable
15E	U-NII	5180~5240	SPYTC605AN	Original Grant	FR3N2109-02E	SPYTC605AW	All sections applicable
		5260~5320	SPYTC605AN	Original Grant	FR3N2109-02E FZ3N2109-02	SPYTC605AW	All sections applicable
		5500~5720	SPYTC605AN	Original Grant	FR3N2109-02E FZ3N2109-02	SPYTC605AW	All sections applicable
		5745~5825	SPYTC605AN	Original Grant	FR3N2109-02E	SPYTC605AW	All sections applicable
	6CD	5925~7125 (Under control of indoor access point) 5925 ~ 6425 6525 ~ 6875 (Under control of Standard access point)	SPYTC605AN	Original Grant	FR3N2109-02F FR3N2109-02G	SPYTC605AW	All sections applicable

2.4 Spot Check Verification Data Section

Conducted power test and radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

All test procedures follow the related section of parent report.

Spot-check measurements, while being always compliant with the applicable rule part(s) for the test under consideration, show a deviation d_{dB} from the reference data no larger than 3 dB:

$$d_{dB} = |V_{dB} - R_{dB}| \leq 3 \text{ dB} \quad (1)$$

V_{dB} , the variant spot-check level

R_{dB} , the corresponding measurement level for the reference model

An alternative to the limit of eq. (1) is available, and is based on considering how far the reference data R_{dB} is from the compliance threshold C_{dB} (also expressed in dB), for the particular test under consideration. In this case, if $M_{dB} = |C_{dB} - R_{dB}|$ is the margin in dB from the compliance limit, a spot check may be considered acceptable when the deviation d_{dB} from the reference data satisfies the following condition:

$$d_{dB} = |V_{dB} - R_{dB}| \leq (3 + M_{dB}/20) \text{ dB}, \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \quad (2)$$

where “| |” is the absolute value of the measured quantity.

When using the option in eq. (2), d_{dB} increases linearly from 3 dB to 6 dB.



Summary for power and RSE spot check for each rule entry and technology is listed as below:

Test Item	Mode	SPYTC605AN Parent Worst mode Test Result	SPYTC605AW Variant Check Test Result	Deviation (dB)	Limit (dB)
Conducted Power for BT & WLAN 2.4G/5G (dBm)	BT BR/EDR	6.71	6.14	0.57	3
	BLE 1M	1.29	1.25	0.04	3
	BLE 2M	6.57	6.43	0.14	3
	11b 2.4G	23.74	23.57	0.17	3
	11g 2.4G	27.87	27.84	0.03	3
	11n20 2.4G	27.42	27.38	0.04	3
	11n40 2.4G	27.14	26.93	0.21	3
	11ax20 2.4G	27.85	27.83	0.02	3
	11ax40 2.4G	27.50	27.30	0.20	3
	11a UNII-1	19.40	19.35	0.05	3
	11a UNII-2A	19.32	19.30	0.02	3
	11a UNII-2C	19.26	19.16	0.10	3
	11a UNII-3	18.94	18.83	0.11	3
	11n20 UNII-1	18.26	18.23	0.03	3
	11n20 UNII-2A	18.40	18.36	0.04	3
	11n20 UNII-2C	18.13	18.08	0.05	3
	11n20 UNII-3	17.80	17.76	0.04	3
	11ac20 UNII-1	18.31	18.15	0.16	3
	11ac20 UNII-2A	18.42	18.23	0.19	3
	11ac20 UNII-2C	18.18	18.10	0.08	3
	11ac20 UNII-3	17.86	17.70	0.16	3
	11ax20 UNII-1	18.35	18.15	0.20	3
	11ax20 UNII-2A	18.47	18.29	0.18	3
	11ax20 UNII-2C	18.22	18.15	0.07	3
	11ax20 UNII-3	17.90	17.78	0.12	3
	11n40 UNII-1	18.26	18.16	0.10	3
	11n40 UNII-2A	18.12	18.04	0.08	3
	11n40 UNII-2C	18.13	18.11	0.02	3
	11n40 UNII-3	17.58	17.57	0.01	3
	11ac40 UNII-1	18.30	18.27	0.03	3
	11ac40 UNII-2A	18.16	18.12	0.04	3
	11ac40 UNII-2C	18.18	18.13	0.05	3
	11ac40 UNII-3	17.65	17.63	0.02	3
	11ax40 UNII-1	18.34	18.23	0.11	3
	11ax40 UNII-2A	18.20	18.07	0.13	3
	11ax40 UNII-2C	18.23	18.11	0.12	3
	11ax40 UNII-3	17.68	17.65	0.03	3
	11ac80 UNII-1	17.20	17.02	0.18	3
	11ac80 UNII-2A	17.05	17.02	0.03	3
	11ac80 UNII-2C	18.15	18.04	0.11	3
	11ac80 UNII-3	17.64	17.60	0.04	3
	11ax80 UNII-1	17.26	17.24	0.02	3
	11ax80 UNII-2A	17.08	16.99	0.09	3
	11ax80 UNII-2C	18.21	18.18	0.03	3
	11ax80 UNII-3	17.67	17.65	0.02	3
	11ac160 UNII-2A	15.85	15.71	0.14	3
	11ac160 UNII-2C	16.55	16.44	0.11	3
	11ax160 UNII-2A	15.95	15.89	0.06	3
	11ax160 UNII-2C	16.64	16.57	0.07	3



Test Item	Mode	SPYTC605AN Parent Worst mode Test Result	SPYTC605AW Variant Check Test Result	Deviation (dB)	Limit (dB)
Conducted Power for WIFI 6E indoor client (dBm)	11a UNII-5	12.39	12.36	0.03	3
	11a UNII-6	12.23	12.20	0.03	3
	11a UNII-7	12.29	12.25	0.04	3
	11a UNII-8	12.39	12.38	0.01	3
	11ax20 UNII-5	12.75	12.67	0.08	3
	11ax20 UNII-6	12.10	12.02	0.08	3
	11ax20 UNII-7	12.66	12.64	0.02	3
	11ax20 UNII-8	12.75	12.73	0.02	3
	11ax40 UNII-5	13.30	13.25	0.05	3
	11ax40 UNII-6	14.31	14.28	0.03	3
	11ax40 UNII-7	15.61	15.55	0.06	3
	11ax40 UNII-8	15.68	15.66	0.02	3
	11ax80 UNII-5	12.61	12.59	0.02	3
	11ax80 UNII-6	14.28	14.21	0.07	3
	11ax80 UNII-7	17.30	17.23	0.07	3
	11ax80 UNII-8	17.45	17.99	0.54	3
	11ax160 UNII-5	13.20	13.15	0.05	3
	11ax160 UNII-6	13.75	13.50	0.25	3
	11ax160 UNII-7	14.76	14.74	0.02	3
	11ax160 UNII-8	14.84	14.81	0.03	3
Conducted Power for WIFI 6E standard client (dBm)	11a UNII-5	13.39	13.37	0.02	3
	11a UNII-7	17.33	17.30	0.03	3
	11ax20 UNII-5	13.32	13.26	0.06	3
	11ax20 UNII-7	17.22	17.21	0.01	3
	11ax40 UNII-5	13.30	13.24	0.06	3
	11ax40 UNII-7	17.45	17.40	0.05	3
	11ax80 UNII-5	12.61	12.59	0.02	3
	11ax80 UNII-7	17.30	17.23	0.07	3
	11ax160 UNII-5	13.20	13.15	0.05	3
	11ax160 UNII-7	14.17	14.07	0.10	3

Test Item	Mode	SPYTC605AN Parent Worst Result	SPYTC605AW Variant Check Result	Deviation (dB)	Limit (dB)
Radiated Spurious Emission (dBm)	BR BR CH78	-17.65	-17.11	0.54	3
	BLE CH00	-8.86	-9.04	0.18	3
	802.11ax40 CH09	-3.55	-3.05	0.50	3
	802.11ax80 CH58	-3.10	-3.87	0.77	3
	802.11ax20 CH233	-3.04	-4.38	1.34	3

Test Item	Mode	SPYTC605AN Parent Worst Result	SPYTC605AW Variant Check Result	Deviation (dB)	Limit (dB)
Field Strength (dBuV/m) @ 3m	NFC 13.56MHz	54.60	57.49	2.89	3



Test Item	Mode	SPYTC605AN Parent Worst Result	SPYTC605AW Variant Check Result	Deviation (dB)	Limit (dB)
CBP	UNII-6 BW160M CH Freq. 6505MHz	-68.17	-68.48	0.31	3

Conclusion:

Radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result, the test data from the original model is representative for the variant model. The power level and RSE spot check are shown within expected level compliant to limit line.

We are using power measurements from the original parent model reports to list on the grant.

The same DFS detection mechanism/software is used in the variant. Hence, there is no spot check data for DFS.

The same CBP detection mechanism/software/antenna gain is used in the variant. Hence, all test cases refer to parent report for CBP.

We confirm that the test data reuse policy of FCC KDB 484596 D01 Referencing Test Data v02r02 has been followed and the test data as referenced from the parent model report represents compliance with new FCC ID.



3 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Jan. 04, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2023	Jan. 04, 2024	Jan. 04, 2024	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2023	Jan. 04, 2024	Jan. 04, 2024	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz; Max 30dBm	Oct. 10, 2023	Dec. 23, 2023	Oct. 09, 2024	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY60242126	10Hz~44GHz	Oct. 10, 2023	Dec. 23, 2023	Oct. 09, 2024	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 10, 2023	Dec. 23, 2023	Oct. 09, 2024	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz~1GHz	Apr. 09, 2023	Dec. 23, 2023	Apr. 08, 2024	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 06, 2023	Dec. 23, 2023	Apr. 05, 2024	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan. 08, 2023	Dec. 23, 2023	Jan. 07, 2024	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	380827	9KHz ~1GHZ	Jul. 06, 2023	Dec. 23, 2023	Jul. 05, 2024	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 05, 2023	Dec. 23, 2023	Jan. 04, 2024	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2082395	1Ghz-18Ghz	Jan. 05, 2023	Dec. 23, 2023	Jan. 04, 2024	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270319	500MHz~26.5GHz	Oct. 10, 2023	Dec. 23, 2023	Oct. 09, 2024	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 23, 2023	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 23, 2023	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 23, 2023	NCR	Radiation (03CH06-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Jan. 08, 2024	Oct. 10, 2024	CBP (DFS01-KS)
MXG-B RF Vector Signal Generator	Keysight	5182B /5182BX07	MY56200417 /MY59360210	9kHz~7.2GHz	May 16, 2023	Jan. 08, 2024	May 15, 2024	CBP (DFS01-KS)
Combiner	MTJ Cooperation	MTJ7114-M	N/A	0.5GHz~18GHz	NCR	Jan. 08, 2024	NCR	CBP (DFS01-KS)

NCR: No Calibration Required.

4 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	± 0.46 dB

Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.32dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	6.26dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.02dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.26dB
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-THE END-