RF TEST REPORT



Report No.: 17070660-FCC-R2
Supersede Report No.: N/A

Applicant	AOC			
Product Name	Tablet PC			
Model No.	A726			
Serial No.	N/A			
Test Standard	FCC Part 1	5.247: 2016,	ANSI C63.10: 2	013
Test Date	August 01 to	o 09, 2017		
Issue Date	August 10, 2	2017		
Test Result	Pass	Fail		
Equipment compl	ied with the s	pecification	V	
Equipment did no	t comply with	the specifica	ation 🔲	
Loven	Luo	David	Huang	
Loren Luo Test Engineer			l Huang cked By	

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Test result presented in this test report is applicable to the tested sample only

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park
South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
Phone: +86 0755 2601 4629801 Email: China@siemic.com.cn



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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety



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1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070660-FCC-R2	NONE	Original	August 10, 2017

2. Customer information

Applicant Name	AOC
Applicant Add	14F-5, NO.258, Liancheng Rd., Zhonghe Dist., New Taipei
	City, Taiwan
Manufacturer	China Great Wall Computer Shenzhen Co., Ltd.
Manufacturer Add	No.Great Wall Computer Industrial Park,Bao Shi East Road,Bao'an
	Bistrict,Shenzhen,P.R.China

3. Test site information

Test Lab A:

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China
	518108
FCC Test Site No.	718246
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

Test Lab B:

Lab performing tests	SIEMIC (Nanjing-China) Laboratories
Lab Address	2-1 Longcang Avenue Yuhua Economic and
Lab Address	Technology Development Park, Nanjing, China
FCC Test Site No.	986914
IC Test Site No.	4842B-1
Test Software	EZ_EMC(ver.lcp-03A1)

Note: We just perform Radiated Spurious Emission above 18GHz in the test Lab. B.



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4. Equipment under Test (EUT) Information

L	Description of	· EU	:	l ablet	P	C

Main Model: A726

Serial Model: N/A

Date EUT received: July 31, 2017

Test Date(s): August 01 to 09, 2017

Equipment Category : DTS

Antenna Gain: Bluetooth/WIFI: 2dBi

Antenna Type: PIFA antenna

Type of Modulation: 802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

WIFI: 802.11b/g/n(20M): 2412-2462 MHz

RF Operating Frequency (ies): WIFI: 802.11n(40M): 2422-2452 MHz

Bluetooth: 2402-2480 MHz

802.11b: 11.50dBm

802.11g: 11.72dBm

Max. Output Power: 802.11n(20M): 11.97dBm

802.11n(40M): 11.58dBm

WIFI:802.11b/g/n(20M): 11CH

Number of Channels: WIFI:802.11n(40M): 7CH

Bluetooth: 79CH

Port: Earphone Port, USB Port, SD Card Port



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Adapter:

Model: SC/5WM500100-US

Input: AC 100-240V~50/60Hz;0.4A

Input Power:
Output: DC 5.0V,1000mA

Battery:

Spec: 3.7V,2500mAh(9.25Wh)

Trade Name : AOC

FCC ID: 2AEB5-A726

Note: The difference between the old case 16071173 and new case 17070660: The only difference is updated the LCD, the other construction is the same.

So, we have retested the Radiated Emissions data in this report.



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5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result	
§15.205, §15.209,	Radiated Spurious Emissions & Unwanted Emissions	Compliance	
§15.247(d)	into Restricted Frequency Bands	Compliance	

Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
-	-	-



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6. Measurements, Examination And Derived Results

6.1 Radiated Spurious Emissions & Restricted Band

Temperature	25°C
Relative Humidity	50%
Atmospheric Pressure	1008mbar
Test date :	August 08, 2017
Tested By :	Loren Luo

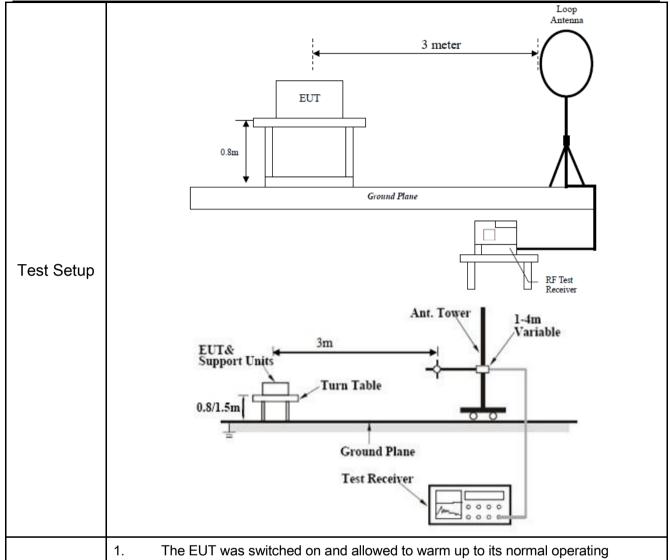
Requirement(s):

Spec	Item	Requirement		Applicable
47CFR§15. 205, §15.209,	a)	Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spe the level of any unwanted emission the fundamental emission. The tight edges		
		Frequency range (MHz) 0.009~0.490	Field Strength (μV/m) 2400/F(KHz)	V
§15.247(d)		0.490~1.705	24000/F(KHz)	
3 ()		1.705~30.0	30	
		30 – 88	100	
		88 – 216	150	
		216 960	200	
		Above 960	500	



Procedure

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- The EUT was switched on and allowed to warm up to its normal operating condition.
- The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:
 - a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.
 - b. The EUT was then rotated to the direction that gave the maximum emission.
 - c. Finally, the antenna height was adjusted to the height that gave the maximum emission.
- 3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above



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	1GHz.	
	The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video	
	bandwidth is 10Hz with Peak detection for Average Measurement as below at	
	frequency above 1GHz.	
	5. Steps 2 and 3 were repeated for the next frequency point, until all selected	
	frequency points were measured.	
Remark		
Result	Pass Fail	
Test Data	Yes N/A	
Test Plot	Yes (See below) V/A	



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Test Result:

Test Mode: Transmitting Mode

Frequency range: 9KHz - 30MHz

Freq.	Detection	etection Factor		Result	Limit@3m	Margin
(MHz)	value	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)
						>20
						>20

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

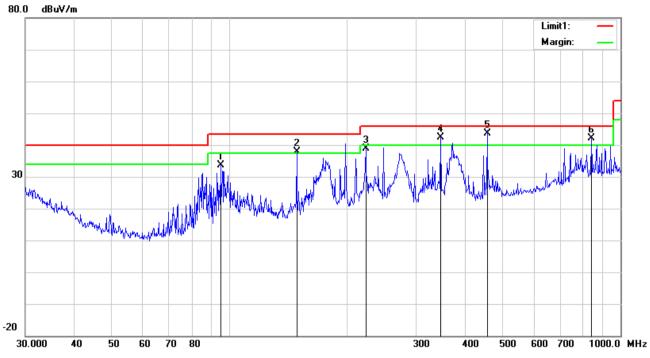
Limit line = specific limits(dBuv) + distance extrapolation factor.



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Test Mode: Bluetooth Mode

30MHz -1GHz



Test Data

Horizontal Polarity Plot @3m

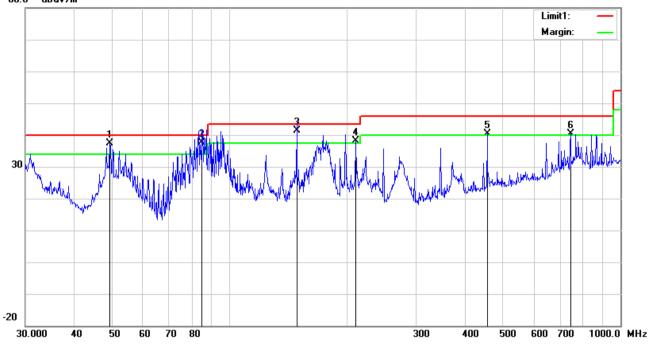
	rionzoniari olaniy riot @om											
No.	P/L	Frequency	Reading	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr ee
		(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
1	Н	94.7601	45.78	peak	9.14	22.32	0.99	33.59	43.50	-9.91	100	86
2	I	148.4410	46.41	QP	12.60	22.35	1.33	37.99	43.50	-5.51	100	11
3	Н	222.9502	47.88	peak	11.78	22.34	1.61	38.93	46.00	-7.07	100	227
4	Н	346.8092	47.93	QP	14.58	22.16	2.02	42.37	46.00	-3.63	100	300
5	Н	455.9058	46.47	QP	16.82	21.90	2.16	43.55	46.00	-2.45	100	203
6	I	842.1296	38.46	QP	21.86	21.04	2.88	42.16	46.00	-3.84	100	89



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30MHz -1GHz





Test Data

Vertical Polarity Plot @3m

No.	P/L	Frequency	Reading	Detect or	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degr ee
		(MHz)	(dBuV/m)	01	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
1	٧	49.3594	50.21	QP	8.68	22.37	0.79	37.31	40.00	-2.69	100	194
2	V	84.9995	51.10	QP	7.80	22.37	1.07	37.60	40.00	-2.40	100	126
3	V	148.4410	49.82	QP	12.60	22.35	1.33	41.40	43.50	-2.10	100	152
4	٧	210.0482	46.88	QP	11.96	22.36	1.57	38.05	43.50	-5.45	100	166
5	٧	455.9058	43.29	QP	16.82	21.90	2.16	40.37	46.00	-5.63	100	171
6	V	744.8661	38.06	QP	20.74	21.27	2.84	40.37	46.00	-5.63	100	114



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Above 1GHz

Test Mode: Transmitting Mode

Low Channel (2412 MHz)(g mode worst case)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4824	39.85	AV	V	33.39	7.22	48.46	32	54	-22.00
4824	36.74	AV	Н	33.39	7.22	48.46	28.89	54	-25.11
4824	51.22	PK	V	33.39	7.22	48.46	43.37	74	-30.63
4824	50.38	PK	Н	33.39	7.22	48.46	42.53	74	-31.47
3825	34.52	AV	V	31.41	6.8	49.2	23.53	54	-30.47
3825	33.11	AV	Н	31.41	6.8	49.2	22.12	54	-31.88
3825	44.2	PK	V	31.41	6.8	49.2	33.21	74	-40.79
3825	43.25	PK	Н	31.41	6.8	49.2	32.26	74	-41.74

Middle Channel (2437 MHz) (n20 mode worst case)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4874	41.22	AV	V	33.62	7.53	48.36	34.01	54	-19.99
4874	39.76	AV	Н	33.62	7.53	48.36	32.55	54	-21.45
4874	49.26	PK	V	33.62	7.53	48.36	42.05	74	-31.95
4874	47.51	PK	Н	33.62	7.53	48.36	40.3	74	-33.70
7984	27.31	AV	V	37.89	7.3	47.29	25.21	54	-28.79
7984	26.58	AV	Η	37.89	7.3	47.29	24.48	54	-29.52
7984	45.16	PK	V	37.89	7.3	47.29	43.06	74	-30.94
7984	42.58	PK	Н	37.89	7.3	47.29	40.48	74	-33.52



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High Channel (2462 MHz) (n20 mode worst case)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4924	40.75	AV	V	33.74	7.78	48.34	33.93	54	-20.07
4924	38.46	AV	Н	33.74	7.78	48.34	31.64	54	-22.36
4924	53.06	PK	٧	33.74	7.78	48.34	46.24	74	-27.76
4924	51.24	PK	Н	33.74	7.78	48.34	44.42	74	-29.58
17536	21.63	AV	٧	41.99	17	46.01	34.61	54	-19.39
17536	19.84	AV	Н	41.99	17	46.01	32.82	54	-21.18
17536	45.17	PK	V	41.99	17	46.01	58.15	74	-15.85
17536	44.26	PK	Н	41.99	17	46.01	57.24	74	-16.76

Note:

- 1, The testing has been conformed to 10*2472MHz=24,620MHz
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.
- 4, The radiated spurious test above 18GHz is subcontracted to SIEMIC (Nanjing-China) Laboratories. and found 30dB below the limit at least.



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Annex A. TEST INSTRUMENT

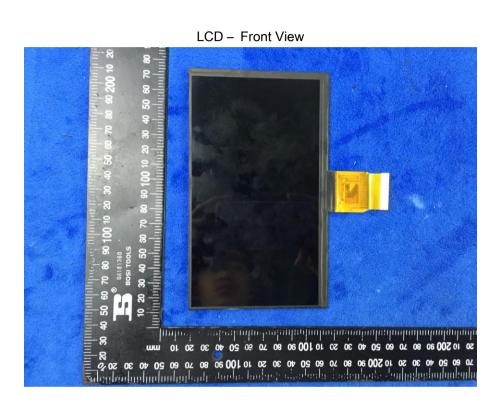
Instrument	Model	Serial #	Cal Date	Cal Due	In use
Radiated Emissions					
EMI test receiver	ESL6	100262	09/16/2016	09/15/2017	>
Positioning Controller	UC3000	MF780208282	11/18/2016	11/17/2017	>
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	08/31/2016	08/30/2017	>
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/23/2017	03/22/2018	>
Horn Antenna	BBHA9170	3145226D1	09/28/2016	09/27/2017	>
Active Antenna (9kHz-30MHz)	AL-130	121031	10/13/2016	10/12/2017	>
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/20/2016	09/19/2017	(
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/23/2016	09/22/2017	(
Universal Radio Communication Tester	CMU200	121393	09/24/2016	09/23/2017	K



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Annex B. EUT and Test Setup Photographs

Annex B.i. Photograph: EUT Internal Photo



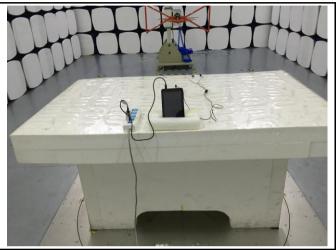
LCD - Rear View



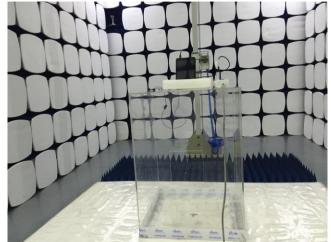


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Annex B.iii. Photograph: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

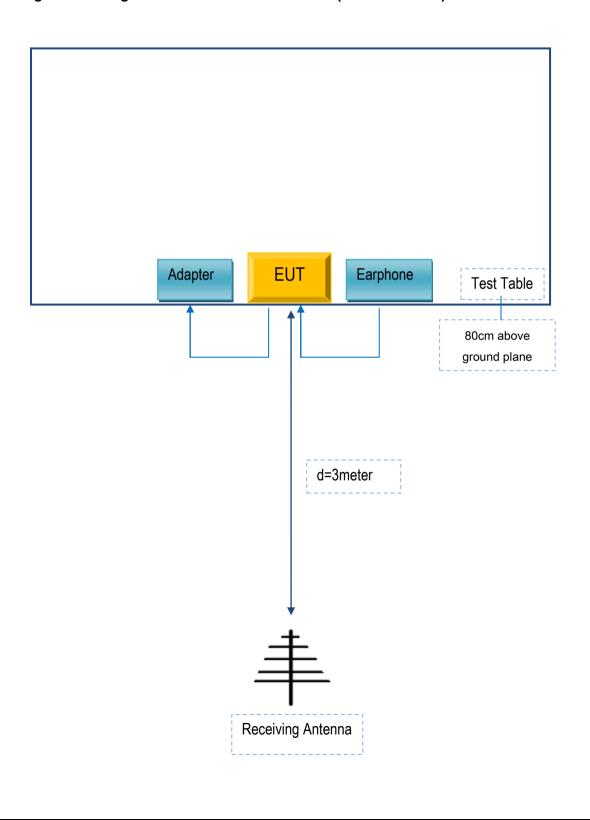


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

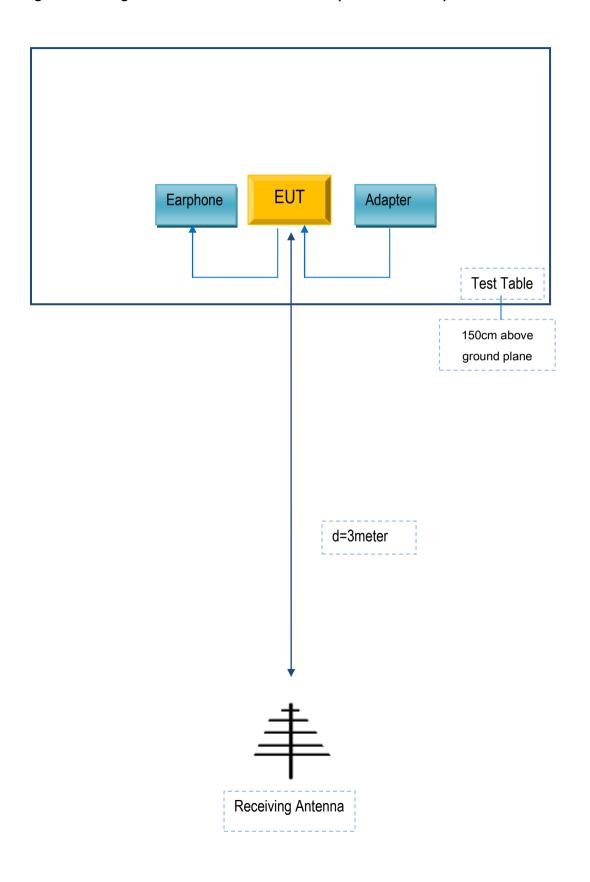
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





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Block Configuration Diagram for Radiated Emissions (Above 1GHz) .





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Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
AOC	Adapter	SC/5WM500100-US	A72S

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	A72S



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Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment



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Annex E. DECLARATION OF SIMILARITY

Declaration Letter

(Original approval holder)

(Original approval notati)	
Company name	AOC
Address	14F-5, NO.258, Liancheng Rd., Zhonghe Dist., New Taipei City, Taiwan

Declare that the following company:

(New approval holder)

Company name	AOC 14F-5, NO.258, Liancheng Rd., Zhonghe Dist., New Taipei City, Taiwan	
Address		

is here to declare that PCB , $\!$ Antenna and Appearance shape , accessories are the same . The only difference is listed as below

(Difference from original approval holder's)

	Model	Difference	
Original	A726		
New	A726	New screen	

and apply for own approval or certificate.

Attestation:

Date:	Name: (this must be a person)	Function:	Signature: (or official company stamp)
2017-8-11	李尚諭 SY.Lee	Design Manager	SY. Lee &si