

Report No.: ATE20151421

Page 1 of 27

APPLICATION FOR VERIFICATION On Behalf of Shenzhen Aoweishi Technology Co., Ltd

5.8GHz FPV Diversity Goggles Model No.: SPX01

FCC ID: 2ACIM-SPX01

Prepared for : Shenzhen Aoweishi Technology Co., Ltd

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Prepared by : Accurate Technology Co., Ltd.

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Report No. : ATE20151421
Date of Test : July 01-30, 2015
Date of Report : July 30, 2015





TABLE OF CONTENTS

Description	on	Page
Test Rep	ort Declaration	
1. TEST	RESULTS SUMMARY	4
2. GENI	ERAL INFORMATION	5
	Product of Device (EUT)	
	Accessory and Auxiliary Equipment	
	Description of Test Facility	
2.4. N	Measurement Uncertainty	6
3. POW	ER LINE CONDUCTED MEASUREMENT	7
3.1. F	For Power Line Conducted Emission	7
3.2. E	Block Diagram of Test Setup	8
	Power Line Conducted Emission Measurement Limits (Class B)	
	Configuration of EUT on Measurement	
	Operating Condition of EUT	
	est Procedure	
	Power Line Conducted Emission Measurement Results	
	ATED EMISSION MEASUREMENT	
	For Radiated Emission Measurement	
	Block Diagram of Test Setup	
	Radiated Emission Limit (Class B)	
	EUT Configuration on Measurement Operating Condition of EUT	
	est Procedure	

4.7.



Report No.: ATE20151421 Page 3 of 27

Test Report Declaration

Applicant : Shenzhen Aoweishi Technology Co., Ltd Manufacturer : Shenzhen Aoweishi Technology Co., Ltd

Product : 5.8GHz FPV Diversity Goggles

(A) Model No.: SPX01

(B) Rating: Input: DC 12V (Powered by Adapter)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B Class B & ANSI C63.4: 2014

The device described above is tested by Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Accurate Technology Co., Ltd.

(Sean Liu, Manager)

Date of Test:

Date of Report:

Date of Report:

Prepared by:

Approved & Authorized Signer:

FCC ID: 2ACIM-SPX01 ACCURATE TECHNOLOGY CO. LTD



Report No.: ATE20151421

Page 4 of 27

1. TEST RESULTS SUMMARY

Test Items	Test Standard	Test Results
Power Line Conducted Emission	FCC Part 15 Subpart B	Pass
Radiated Emission	FCC Part 15 Subpart B	Pass



Report No.: ATE20151421

Page 5 of 27

2. GENERAL INFORMATION

2.1.Product of Device (EUT)

Product 5.8GHz FPV Diversity Goggles

Model No. SPX01

Trade Mark **Flysight**

Remark(s) The EUT highest operating frequency provided by

> Manufacturer is 27MHz, the radiated emission measurement shall be made up to 1 GHz(Except for

5.8GHz RX mode).

DC 12V (Powered by Adapter) Rating

> (Note: The adapter is a test sample of the laboratory which is not provided by the customer. The voltage range of the

adapter provided by the laboratory is 120V)

Shenzhen Aoweishi Technology Co., Ltd Applicant

6/F, Shenhui Tech Park, Mingzhu Branch Rd., Niulangian, Address

Longhua New District, ShenZhen, 518131, China

Manufacturer Shenzhen Aoweishi Technology Co., Ltd

July 01, 2015

6/F, Shenhui Tech Park, Mingzhu Branch Rd., Niulangian, Address

Longhua New District, ShenZhen, 518131, China

Date of sample

received

Date of Test July 01-30, 2015

2.2. Accessory and Auxiliary Equipment

Notebook PC Manufacturer: LENOVO

M/N: 4290-RT8

S/N: R9-FW93G 11/08

LCD Monitor Manufacturer: DELL

M/N: 1704FPTt



Report No.: ATE20151421 Page 6 of 27

2.3. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen, May 10, 2004

Listed by FCC

The Registration Number is 253065

Listed by FCC

The Registration Number is 752051

Listed by Industry Canada

The Registration Number is 5077A-1

Listed by Industry Canada

The Registration Number is 5077A-2

Accredited by China National Accreditation Committee for

Laboratories

The Certificate Registration Number is L3193

Name of Firm : Accurate Technology Co., Ltd.

Site Location : F1, Bldg. A&D, Changyuan New Material Port, Keyuan

Rd., Science & Industry Park, Nanshan District, Shenzhen

518057, P.R. China

2.4. Measurement Uncertainty

Conducted emission expanded uncertainty : U=2.23dB, k=2

Power disturbance expanded uncertainty : U=2.92dB, k=2 Radiated emission expanded uncertainty : U=3.08dB, k=2

(9kHz-30MHz)

Radiated emission expanded uncertainty : U=4.42dB, k=2

(30MHz-1000MHz)

Radiated emission expanded uncertainty U=4.06dB, k=2

(Above 1GHz)





3. POWER LINE CONDUCTED MEASUREMENT

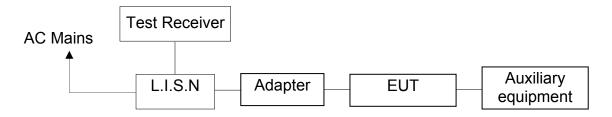
3.1. For Power Line Conducted Emission

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	100307	Jan.10, 2015	1 Year
2.	Test Receiver	Rohde & Schwarz	ESPI	100396/003	Jan.10, 2015	1 Year
3.	Test Receiver	Rohde & Schwarz	ESPI	101526/003	Jan.10, 2015	1 Year
4.	Test Receiver	Rohde & Schwarz	ESR	101817	Jan.10, 2015	1 Year
5.	L.I.S.N.	Schwarzbeck	NLSK8126	8126431	Jan.10, 2015	1 Year
6.	L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100305	Jan.10, 2015	1 Year
7.	L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100310	Jan.10, 2015	1 Year
8.	L.I.S.N.	Rohde & Schwarz	ESH3-Z6	100132	Jan.10, 2015	1 Year
9.	L.I.S.N.	Rohde & Schwarz	ESH3-Z6	100979	Jan.10, 2015	1 Year
10.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100305	Jan.10, 2015	1 Year
11.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100312	Jan.10, 2015	1 Year
12.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	Jan.10, 2015	1 Year
13.	50Ω Coaxial Switch	Anritsu Corp	MP59B	620028393 6	Jan.10, 2015	1 Year
14.	50Ω Coaxial Switch	Anritsu Corp	MP59B	620028393 3	Jan.10, 2015	1 Year
15.	50Ω Coaxial Switch	Anritsu Corp	MP59B	620050647 4	Jan.10, 2015	1 Year
16.	VOLTAGE PROBE	Schwarzbeck	TK9416	N/A	Jan.10, 2015	1 Year
17.	RF CURRENT PROBE	Rohde & Schwarz	EZ-17	100048	Jan.10, 2015	1 Year
18.	8-Wire Impedance Stabilisation Network	Schwarzbeck	CAT5 8158	8158-0035	Jan.10, 2015	1 Year
19.	RF Coaxial Cable	SUHNER	N-2m	No.2	Jan.10, 2015	1 Year
20.	RF Coaxial Cable	SUHNER	N-2m	No.3	Jan.10, 2015	1 Year
21.	RF Coaxial Cable	SUHNER	N-2m	No.14	Jan.10, 2015	1 Year



Report No.: ATE20151421 Page 8 of 27

3.2. Block Diagram of Test Setup



(EUT: 5.8GHz FPV Diversity Goggles)

3.3. Power Line Conducted Emission Measurement Limits (Class B)

Frequency	Limits dB(μV)					
MHz	Quasi-peak Level	Average Level				
0.15—0.50	66—56*	56—46*				
0.50—5.00	56	46				
5.00—30.0	60	50				

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

3.4.1. 5.8GHz FPV Diversity Goggles (EUT)

Model Number: SPX01 Serial Number: N/A

Manufacturer: Shenzhen Aoweishi Technology Co., Ltd

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turn on the power of all equipment.
- 3.5.3.Let the EUT work in test mode (Camera, AV IN, HDMI IN) and measure it.

3.6. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both



sides of DC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2014 on Conducted Emission Measurement.

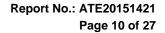
The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.7. Power Line Conducted Emission Measurement Results

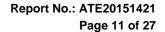
PASS.

MEASUREMENT	RESULT	: "AOWE	0012_1	in"			
2015-7-29 9:1 Frequency MHz			Limit dBµV	Margin dB	Detector	Line	PE
0.520000 0.992000 12.917000	44.20 40.50 39.80	11.5 11.6 11.9	56 56 60	11.8 15.5 20.2	QP QP QP	L1 L1 L1	GNI GNI GNI
MEASUREMENT	RESULT	: "AOWE	0012_1				
2015-7-29 9:1 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.528000 2.711000 12.566000	36.70 32.10 32.00	11.5 11.7 11.9	46 46 50	9.3 13.9 18.0	AV AV AV	L1 L1 L1	GNI
MEASUREMENT	RESULT	: "AOWE	0011_f	in"			
2015-7-29 9:1 Frequency MHz	Level	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.532000 1.078000 12.669500	42.10 36.10 37.00	11.5 11.6 11.9	56 56 60	13.9 19.9 23.0	QP QP QP	N N N	GND GND GND
MEASUREMENT		: "AOWE	0011 <u></u>	in2"			
2015-7-29 9:1 Frequency MHz					Detector	Line	PE
0.530000 2.769500 23.037500	35.20 31.00	11.5 11.7	46 46 50	10.8 15.0 17.1	AV AV	N N N	GND GND GND





Test mode: AVI IN Test Port: AC Mains (AC 120V/ 60Hz)											
MEASUREMENT		,	0009 f	in"							
2015-7-29 9:1 Frequency	0 Level		_ Limit	Margin	Detector	Line	PE				
0.528000 1.038000 12.449000	45.10 40.20 39.80	11.5 11.6 11.9	56 56 60	10.9 15.8 20.2	QP QP QP	L1 L1 L1	GND GND GND				
MEASUREMENT	RESULT	: "AOWE	0009_f	in2"							
2015-7-29 9:1 Frequency MHz	Level	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE				
0.532000 2.706500 12.575000	36.20 32.10 32.00	11.5 11.7 11.9	46 46 50	9.8 13.9 18.0	AV AV AV	L1 L1 L1	GND GND GND				
MEASUREMENT	RESULT	: "AOWE	0010_f	in"							
2015-7-29 9:1 Frequency MHz	Level	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE				
0.532000 1.018000 12.741500	42.30 37.90 36.80	11.5 11.6 11.9	56 56 60	13.7 18.1 23.2	QP QP QP	N N N	GND GND GND				
	MEASUREMENT RESULT: "AOWE0010_fin2"										
2015-7-29 9:1 Frequency MHz	Level	Transd dB			Detector	Line	PE				
0.530000 2.733500 23.042000	35.20 31.80 31.60		46 46 50			N N N	GND GND GND				

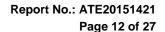




Test mode: H Test Port: AC		: 120\//	60Hz)					
	JREMENT F			0007_£	in"			
		Level	Transd dB			Detector	Line	PE
0.01	.150000 .536000 .034000 .715500	31.50 41.20 38.20 36.70	10.3 11.5 11.6 11.7	66 56 56 56	34.5 14.8 17.8 19.3	QP QP QP QP	N N N	GND GND GND GND
MEASU	JREMENT F	RESULT	: "AOWE	0007_f	in2"			
	7-29 9:06 equency MHz	Level	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.1.2.	.530000 .004000 .715500	35.40 32.30 32.00	11.5 11.6 11.7	46 46 46	10.6 13.7 14.0	AV AV AV	N N N	GND GND GND
MEAS	UREMENT I	RESULT	: "AOWE	0008_f	in"			
	7-29 9:08 equency MHz	Level	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0 1 12	.516000 .006000 .336500	44.90 40.90 39.80	11.5 11.6 11.9	56 56 60	11.1 15.1 20.2	QP QP QP	L1 L1 L1	GND
MEAS	UREMENT I	RESULT	: "AOWE	0008_£	in2"			
				Limit dBµV		Detector	Line	PE
	.530000 .724500 .899000	36.70 32.20 32.20	11.5 11.7 12.0	46 46 50		AV AV AV	L1 L1 L1	GND GND GND

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are shown in the following pages.





CONDUCTED EMISSION STANDARD FCC PART 15B

5.8GHz FPV Diversity Goggles M/N:SPX01

AOWEISHI Manufacturer: Operating Condition: Camera

Test Site: 2#Shielding Room

Operator: star

Test Specification: L 120V/60Hz

Report No.:ATE20151421 Comment: Start of Test: 2015-7-29 / 9:15:50

SCAN TABLE: "V 150K-30MHz fin" Short Description: _SUB_

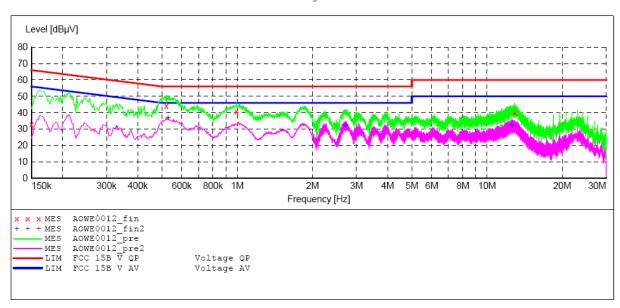
_____SUB_STD_VTERM2 1.70

Stop Step Detector Meas. IF Transducer

Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz Bandw. Time

QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)

Average

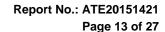


MEASUREMENT RESULT: "AOWE0012 fin"

2015-7-29	9:17						
Frequency				_	Detector	Line	PΕ
MH	z dBµV	dB	dΒμV	dB			
0.520000	44.20	11.5	56	11.8	QP	L1	GND
0.992000	40.50	11.6	56	15.5	QP	L1	GND
12.917000	39.80	11.9	60	20.2	QP	L1	GND

MEASUREMENT RESULT: "AOWE0012 fin2"

2015-7-29 9:17							
Frequency	Level	Transd	Limit	Margin	Detector	Line	PΕ
MHz	dΒμV	dB	dΒμV	dB			
0.528000	36.70	11.5	46	9.3	AV	L1	GND
2.711000	32.10	11.7	46	13.9	AV	L1	GND
12.566000	32.00	11.9	50	18.0	AV	L1	GND





CONDUCTED EMISSION STANDARD FCC PART 15B

5.8GHz FPV Diversity Goggles M/N:SPX01

Manufacturer: AOWEISHI Operating Condition: Camera

Test Site: 2#Shielding Room

Operator: star

Test Specification: N 120V/60Hz

Report No.:ATE20151421 Comment: Start of Test: 2015-7-29 / 9:13:15

SCAN TABLE: "V 150K-30MHz fin" Short Description: _SUB_S

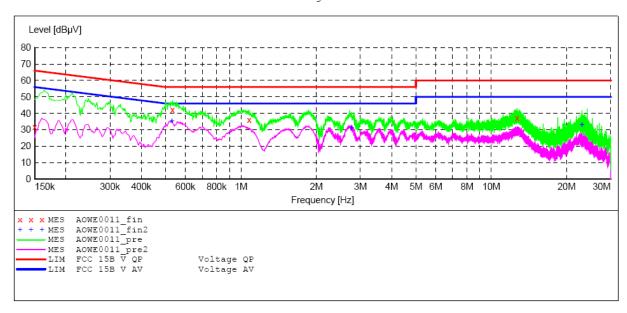
_____SUB_STD_VTERM2 1.70

Stop Step Detector Meas. ΙF Transducer

Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz Bandw. Time

4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)

Average

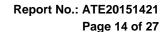


MEASUREMENT RESULT: "AOWE0011 fin"

20)15-7-29 9 : 15	,						
	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dΒμV	dB	dΒμV	dB			
	0.532000	42.10	11.5	E.6	13.9	OD	M	CNID
	0.552000	42.10	11.5	50	13.9	QF	N	GND
	1.078000	36.10	11.6	56	19.9	QP	N	GND
	12,669500	37.00	11.9	60	23.0	OP	N	GND

MEASUREMENT RESULT: "AOWE0011 fin2"

2015-7-29 9:15 Frequency MHz				Margin dB	Detector	Line	PE
0.530000 2.769500	35.20 31.00	11.5 11.7	46 46			N N	GND GND
23.037500	32.90	12.0	50	17.1	AV	N	GND





CONDUCTED EMISSION STANDARD FCC PART 15B

5.8GHz FPV Diversity Goggles M/N:SPX01

Manufacturer: AOWEISHI Operating Condition: AVI IN

Test Site: 2#Shielding Room

Operator: star

Test Specification: L 120V/60Hz

Comment: Report No.:ATE20151421 Start of Test: 2015-7-29 / 9:08:44

SCAN TABLE: "V 150K-30MHz fin"

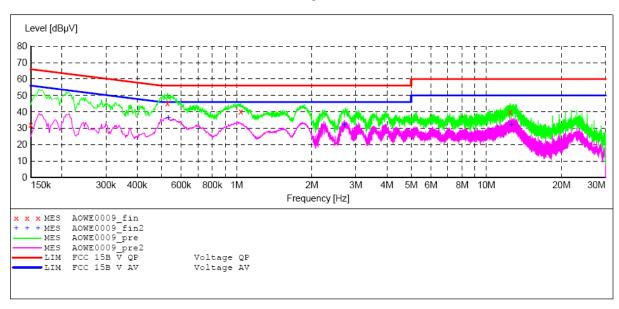
_SUB_STD_VTERM2 1.70 Short Description:

Stop Step Start Detector Meas. IF Transducer

Time Bandw.

Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)

Average

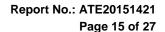


MEASUREMENT RESULT: "AOWE0009 fin"

2015-7-29 9:10							
Frequency	Level	Transd	Limit	Margin	Detector	Line	PΕ
MHz	dΒμV	dB	dΒμV	dB			
0.528000	45.10	11.5	56	10.9	OP	L1	GND
1.038000	40.20	11.6		15.8	~	L1	GND
					~		
12.449000	39.80	11.9	60	20.2	OP	L1	GND

MEASUREMENT RESULT: "AOWE0009 fin2"

2015-7-29 9:10 Frequency MHz			Limit dBµV	Margin dB	Detector	Line	PE
0.532000 2.706500 12.575000	36.20 32.10 32.00	11.5 11.7 11.9		13.9		L1 L1 L1	GND GND GND





CONDUCTED EMISSION STANDARD FCC PART 15B

5.8GHz FPV Diversity Goggles M/N:SPX01

Manufacturer: AOWEISHI Operating Condition: AVI IN

Test Site: 2#Shielding Room

Operator: star

Test Specification: N 120V/60Hz

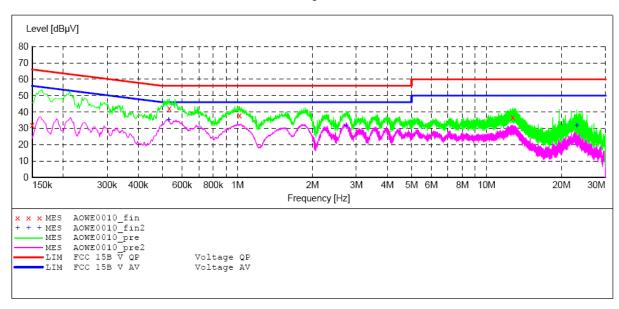
Comment: Report No.:ATE20151421 2015-7-29 / 9:10:43 Start of Test:

SCAN TABLE: "V 150K-30MHz fin"
Short Description: _SUB_STD_VTERM2 1.70

Detector Meas. IF
Time Bandw. Start Stop Step Transducer

Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)

Average

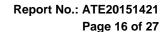


MEASUREMENT RESULT: "AOWE0010 fin"

2	015-7-29 9:12	2						
	Frequency MHz	Level dBµV		Limit dBµV	Margin dB	Detector	Line	PE
	0.532000 1.018000		11.5 11.6		13.7 18.1	~	N N	GND GND
	12.741500	36.80	11.9		23.2	~	N	GND

MEASUREMENT RESULT: "AOWE0010 fin2"

2015-7-29 9:13	2						
Frequency					Detector	Line	PE
MHz	dΒμV	dB	dΒμV	dB			
0.530000	35.20	11.5	16	10.8	7/17	N	GND
2.733500	31.80	11.7	46			N	GND
23.042000	31.60	12.0	50			N	GND





CONDUCTED EMISSION STANDARD FCC PART 15B

5.8GHz FPV Diversity Goggles M/N:SPX01

Manufacturer: AOWEISHI Operating Condition: HDMI IN

Test Site: 2#Shielding Room

Operator: star

Test Specification: N 120V/60Hz

Report No.:ATE20151421 Comment: Start of Test: 2015-7-29 / 9:04:29

SCAN TABLE: "V 150K-30MHz fin"

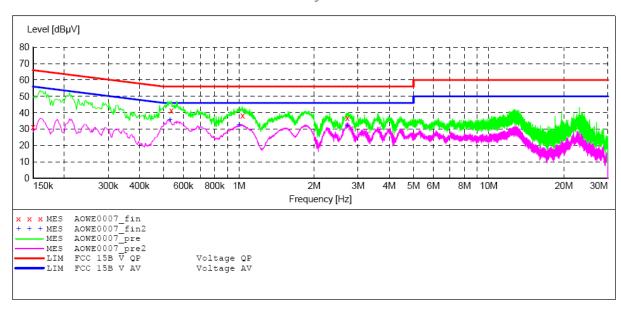
____SUB_STD_VTERM2 1.70 Short Description:

Start Stop Step Detector Meas. IF Transducer

Bandw. Time

Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kH QuasiPeak 1.0 s 9 kHz 4.5 kHz LISN (ESH3-Z5)

Average

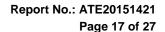


MEASUREMENT RESULT: "AOWE0007 fin"

2015-7-2	9:06	5						
Frequ	nency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0 1 5		21 50	10.0		24.5	0.5		COLE
0.15	0000	31.50	10.3	66	34.5	QP	N	GND
0.53	6000	41.20	11.5	56	14.8	QP	N	GND
1.03	4000	38.20	11.6	56	17.8	QP	N	GND
2.71	.5500	36.70	11.7	56	19.3	QP	N	GND

MEASUREMENT RESULT: "AOWE0007 fin2"

2015-7-29 9:06							
Frequency	Level	Transd	Limit	Margin	Detector	Line	PΕ
MHz	dΒμV	dB	dΒμV	dB			
0.530000	35.40	11.5	46	10.6	AV	N	GND
1.004000	32.30	11.6	46	13.7	AV	N	GND
2.715500	32.00	11.7	46	14.0	AV	N	GND





CONDUCTED EMISSION STANDARD FCC PART 15B

5.8GHz FPV Diversity Goggles M/N:SPX01 EUT:

Manufacturer: AOWEISHI Operating Condition: HDMI IN

Test Site: 2#Shielding Room

Operator: star

Test Specification: L 120V/60Hz

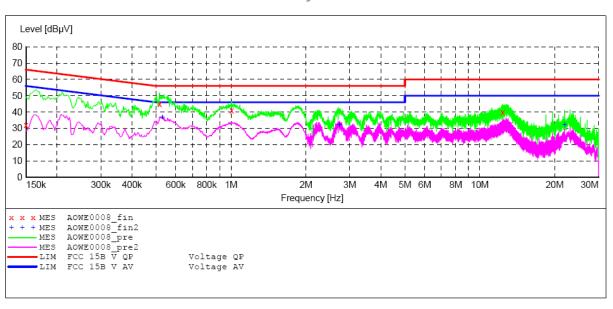
Comment: Report No.:ATE20151421 2015-7-29 / 9:06:52 Start of Test:

SCAN TABLE: "V 150K-30MHz fin"
Short Description: _SUB_STD_VTERM2 1.70

JB_STD_vible._
Detector Meas. IF
Time Bandw. Start Stop Step Transducer

Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)

Average



MEASUREMENT RESULT: "AOWE0008 fin"

2015-7-29 9:08							
Frequency MHz	Level dBµV		Limit dBµV	Margin dB	Detector	Line	PE
0.516000	40.90	11.6	56		ÕР	L1 L1	GND GND
12.336500	39.80	11.9	60	20.2	QP	L1	GND

MEASUREMENT RESULT: "AOWE0008 fin2"

2015-7-29 9:08							
1 1					Detector	Line	PΕ
MHz	dΒμV	dB	dΒμV	dB			
0.530000	36.70	11.5	46	9.3	AV	L1	GND
2.724500	32.20	11.7		13.8	AV	L1	GND
21.899000	32.20	12.0	50	17.8	AV	L1	GND



4. RADIATED EMISSION MEASUREMENT

4.1. For Radiated Emission Measurement

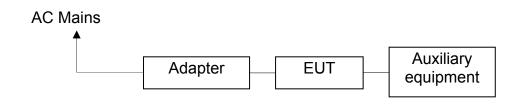
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
1	Cnootrum Analyzar	Agilont	E740EA	NAX/4E44EE44	lon 10, 2015	Interval
1.	Spectrum Analyzer	<u> </u>	E7405A	MY45115511	· ·	1 Year
2.	•		FSV40	101495	Jan.10, 2015	1 Year
3.	Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan.10, 2015	1 Year
4.	Test Receiver	Rohde& Schwarz		100396/003	Jan.10, 2015	1 Year
5.	Test Receiver	Rohde& Schwarz		101526/003	Jan.10, 2015	1 Year
6.	Test Receiver	Rohde& Schwarz		101817	Jan.10, 2015	1 Year
7.	Bilog Antenna	Schwarzbeck	VULB9163	9163-194	Jan.15, 2015	1 Year
8.	Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan.15, 2015	1 Year
9.	LogPer.Antenna	Schwarzbeck	VUSLP 9111B	9111B-074	Jan.15, 2015	1 Year
10.	Biconical Broad Band Antenna	Schwarzbeck	VHBB 9124+BBA 9106	9124-617	Jan.15, 2015	1 Year
11.	Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan.15, 2015	1 Year
12.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan.15, 2015	1 Year
13.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Jan.15, 2015	1 Year
14.	Vertical Active Monopole Antenna	Schwarzbeck	VAMP 9243	9243-370	Jan.15, 2015	1 Year
15.	RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	Jan.10, 2015	1 Year
16.	Pre-Amplifier	Agilent	8447D	294A10619	Jan.10, 2015	1 Year
17.	Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	Jan.10, 2015	1 Year
18.	50 Coaxial Switch	Anritsu Corp	MP59B	6200237248	Jan.10, 2015	1 Year
19.	50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	Jan.10, 2015	1 Year
20.	RF Coaxial Cable	Schwarzbeck	N-5m	No.1	Jan.10, 2015	1 Year
21.	RF Coaxial Cable	Schwarzbeck	N-1m	No.6	Jan.10, 2015	1 Year
22.	RF Coaxial Cable	Schwarzbeck	N-1m	No.7	Jan.10, 2015	1 Year
23.	RF Coaxial Cable	SUHNER	N-3m	No.8	· ·	1 Year
24.	RF Coaxial Cable	RESENBERGER		No.9	Jan.10, 2015	1 Year
25.	RF Coaxial Cable	SUHNER	N-6m	No.10	Jan.10, 2015	1 Year
26.	RF Coaxial Cable	RESENBERGER	N-12m	No.11	Jan.10, 2015	1 Year
27.	RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	Jan.10, 2015	1 Year
28.	RF Coaxial Cable	SUHNER	N-2m	No.13	Jan.10, 2015	1 Year
29.	RF Coaxial Cable	SUHNER	N-0.5m	No.15	Jan.10, 2015	1 Year
30.	RF Coaxial Cable	SUHNER	N-2m	No.16	Jan.10, 2015	1 Year
31.	RF Coaxial Cable	RESENBERGER	N-6m	No.17	Jan.10, 2015	1 Year

Report No.: ATE20151421 Page 19 of 27



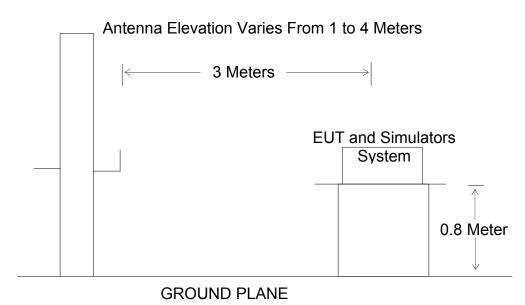
4.2.Block Diagram of Test Setup

4.2.1. Block diagram of connection between the EUT and simulators



(EUT: 5.8GHz FPV Diversity Goggles)

4.2.2. Anechoic Chamber Test Setup Diagram



4.3.Radiated Emission Limit (Class B)

Frequency	Distance	Field Stren	gths Limit
MHz	Meters	μV/m	dB(μV/m)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
960-1000	3	500	54.0

Remark: (1) Emission level dB (μ V) = 20 log Emission level μ V/m.

- (2)The smaller limit shall apply at the cross point between two frequency bands.
- (3)Distance is the distance in meters between the measuring instrument antenna and the closest point of any part of the device or system.



Report No.: ATE20151421 Page 20 of 27

4.4.EUT Configuration on Measurement

The following equipment is installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1. 5.8GHz FPV Diversity Goggles (EUT)

Model Number: SPX01 Serial Number: N/A

Manufacturer: Shenzhen Aoweishi Technology Co., Ltd

4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT and simulator as shown as Section 4.2.
- 4.5.2. Turn on the power of all equipment.
- 4.5.3.Let the EUT work in test mode (Camera, AV IN, HDMI IN) and measure it.

4.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2014 on radiated emission measurement.

The bandwidth of the EMI test receiver (R&S ESCS30) is set at 120kHz from 30MHz to 40GHz.

The frequency range from 30MHz to 40GHz is checked.

Report No.: ATE20151421 Page 21 of 27



4.7. Radiated Emission Noise Measurement Result

PASS.

Model Number: SPX01 Test mode: Camera										
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		
Horizontal	1	76.9256	56.73	-23.03	33.70	40.00	-6.30	QP		
rionzontai	2	329.4625	55.54	-15.41	40.13	46.00	-5.87	QP		
	3	773.7614	47.04	-6.35	40.69	46.00	-5.31	QP		
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		
Vertical	1	117.2687	56.91	-21.26	35.65	43.50	-7.85	QP		
	2	215.3616	56.46	-18.43	38.03	43.50	-5.47	QP		
	3	809.9238	46.22	-5.72	40.50	46.00	-5.50	QP		

Model Number: SPX01 Test mode: AV IN										
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		
Horizontal	1	329.4624	55.30	-15.41	39.89	46.00	-6.11	QP		
1101120116	2	493.5009	51.60	-12.30	39.30	46.00	-6.70	QP		
	3	703.7314	48.41	-7.89	40.52	46.00	-5.48	QP		
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		
Vertical	1	116.4475	57.36	-21.25	36.11	43.50	-7.39	QP		
	2	185.8143	58.07	-19.80	38.27	43.50	-5.23	QP		
	3	809.9238	44.80	-5.72	39.08	46.00	-6.92	QP		

Model Number: SPX01 Test mode: HDMI IN										
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		
Horizontal	1	215.3616	56.14	-18.43	37.71	43.50	-5.79	QP		
1.01.201.001	2	428.7959	52.56	-13.55	39.01	46.00	-6.99	QP		
	3	815.6352	44.74	-5.61	39.13	46.00	-6.87	QP		
	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		
Vertical	1	154.7856	60.35	-21.91	38.44	43.50	-5.06	QP		
101.1001	2	215.3616	56.53	-18.43	38.10	43.50	-5.40	QP		
	3	399.6981	54.49	-13.98	40.51	46.00	-5.49	QP		

We tested Radiated Emission from 30MHz to 1GHz, the test data of radiated emissions lower than the permissible value 20 dB are not recorded.

The spectral diagrams are shown in the following pages.



Report No.: ATE20151421 Page 22 of 27



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: STAR2015 #1350

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 5.8GHz FPV Diversity Goggles

Mode: Camera Model: SPX01

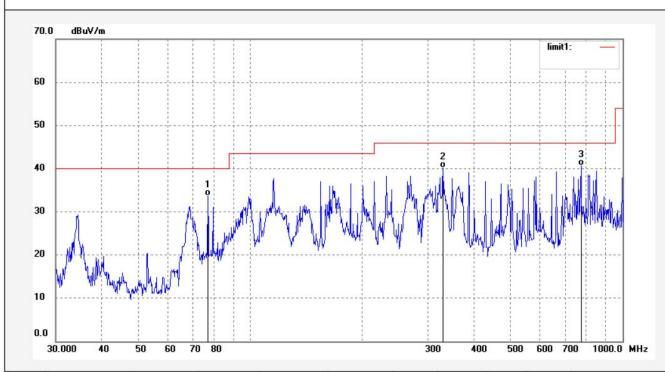
Manufacturer: AOWEISHI

Note: Report No.:ATE20151421

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 15/07/29/ Time: 10/44/17 Engineer Signature: Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	76.9256	56.73	-23.03	33.70	40.00	-6.30	QP			
2	329.4625	55.54	-15.41	40.13	46.00	-5.87	QP			
3	773.7614	47.04	-6.35	40.69	46.00	-5.31	QP			



Report No.: ATE20151421 Page 23 of 27

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Job No.: STAR2015 #1351

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 5.8GHz FPV Diversity Goggles

Mode: Camera Model: SPX01

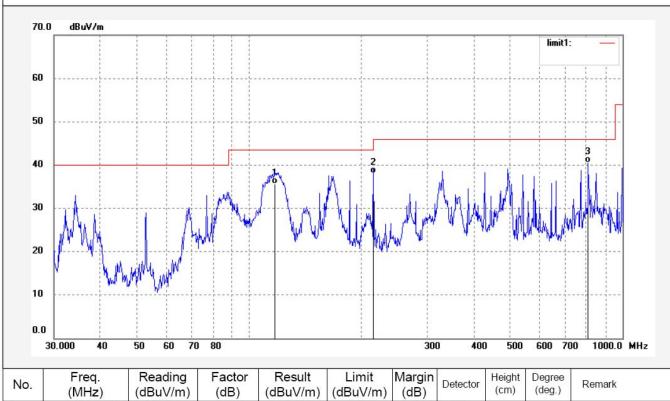
Manufacturer: AOWEISHI

Note: Report No.:ATE20151421

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 15/07/29/ Time: 10/45/48 Engineer Signature: Distance: 3m





Report No.: ATE20151421 Page 24 of 27



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Job No.: STAR2015 #1353

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %
EUT: 5.8GHz FPV Diversity Goggles

Mode: AV IN

Model: SPX01

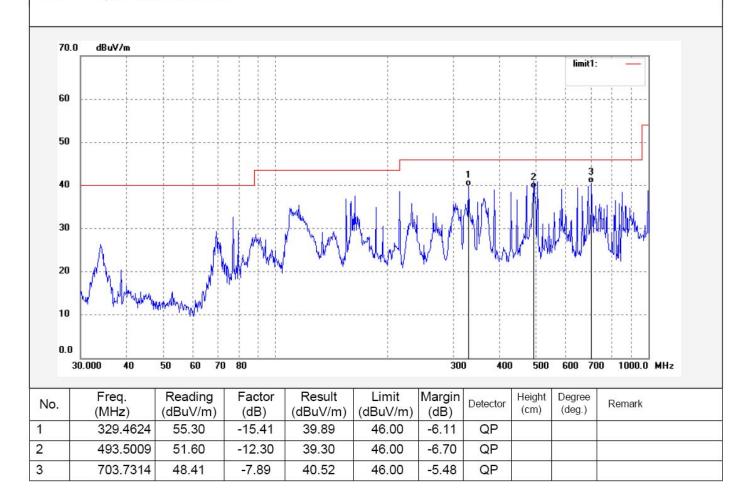
Manufacturer: AOWEISHI

Note: Report No.:ATE20151421

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 15/07/29/ Time: 10/50/18 Engineer Signature: Distance: 3m





Report No.: ATE20151421 Page 25 of 27



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F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: STAR2015 #1352

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 5.8GHz FPV Diversity Goggles

Mode: AV IN Model: SPX01

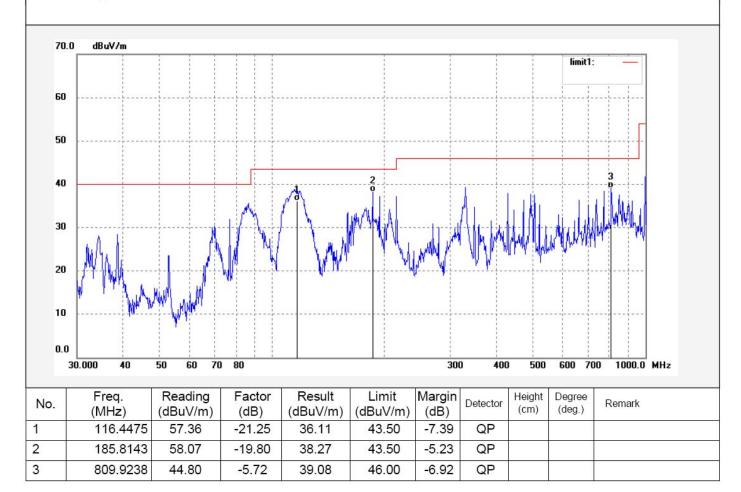
Manufacturer: AOWEISHI

Note: Report No.:ATE20151421

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 15/07/29/ Time: 10/47/46 Engineer Signature: Distance: 3m





Report No.: ATE20151421 Page 26 of 27



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F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: STAR2015 #1354

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 5.8GHz FPV Diversity Goggles

Mode: HDMI IN

Model: SPX01

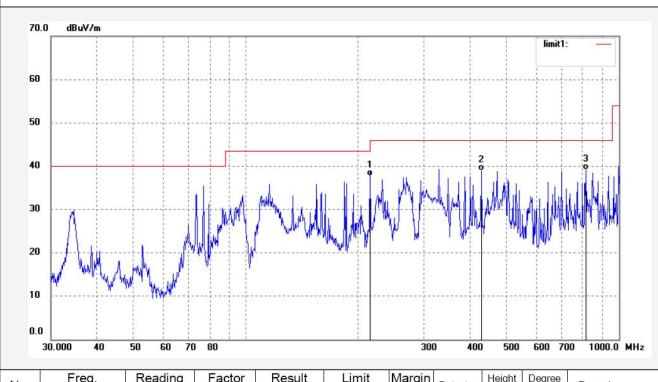
Manufacturer: AOWEISHI

Note: Report No.:ATE20151421

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 15/07/29/ Time: 10/52/44 Engineer Signature: Distance: 3m



			1			100	100				
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	215.3616	56.14	-18.43	37.71	43.50	-5.79	QP				
2	428.7959	52.56	-13.55	39.01	46.00	-6.99	QP				
3	815.6352	44.74	-5.61	39.13	46.00	-6.87	QP				



Report No.: ATE20151421 Page 27 of 27



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Job No.: STAR2015 #1355

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: 5.8GHz FPV Diversity Goggles

Mode: HDMI IN Model: SPX01

Manufacturer: AOWEISHI

Note: Report No.:ATE20151421

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 15/07/29/ Time: 10/54/05 Engineer Signature:

Distance: 3m

												limit1:	<u> </u>
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