

FCC TEST REPORT
For
Shenzhen Wintop Optical Technology Co., Ltd

Industrial Ethernet Switch
Model No.: WT-DS10208G-AT/AF-LP, WT-DS10208-G-AT/AF-LP,
WT-DS10108G-AT/AF-LP, WT-DS10108-G-AT/AF-LP

Prepared for : Shenzhen Wintop Optical Technology Co., Ltd
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Report No. : ATE20151113
Date of Test : June 3, 2015
Date of Report : June 5, 2015

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Test Report

Applicant : Shenzhen Wintop Optical Technology Co., Ltd
Manufacturer : Shenzhen Wintop Optical Technology Co., Ltd
EUT Description : Industrial Ethernet Switch
Model No. : WT-DS10208G-AT/AF-LP, WT-DS10208-G-AT/AF-LP,
WT-DS10108G-AT/AF-LP, WT-DS10108-G-AT/AF-LP

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B Class A & 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 A 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.

Date of Test : June 3, 2015
Date of Report: June 5, 2015

Prepared by : Bob Wang
(Engineer)

Approved & Authorized Signer : Heunob
(Manager)

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

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT	:	Industrial Ethernet Switch
Model No.	:	WT-DS10208G-AT/AF-LP, WT-DS10208-G-AT/AF-LP, WT-DS10108G-AT/AF-LP, WT-DS10108-G-AT/AF-LP (Note: Above models are identical in schematic, structure and critical components except for model name. So we prepare WT-DS10208G-AT/AF-LP for test only.)
Trade Mark	:	WT
Remark(s)	:	The EUT highest operating frequency provided by Manufacturer is 1.5 GHz, the radiated emission measurement shall be made up to 6 GHz.
Rating	:	AC 120V; 60Hz
Applicant	:	Shenzhen Wintop Optical Technology Co., Ltd
Address	:	6/f, Bldg. 1, Sec, 3, South area, Honghualing Industrial Zone Xili Town, Nanshan District, Shenzhen China
Manufacturer	:	Shenzhen Wintop Optical Technology Co., Ltd
Address	:	6/f, Bldg. 1, Sec, 3, South area, Honghualing Industrial Zone Xili Town, Nanshan District, Shenzhen China
Date of sample received	:	June 1, 2015
Date of Test	:	June 3, 2015

2.2. Accessory and Auxiliary Equipment

N/A

2.3. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

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 = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. For Conducted Emission Test

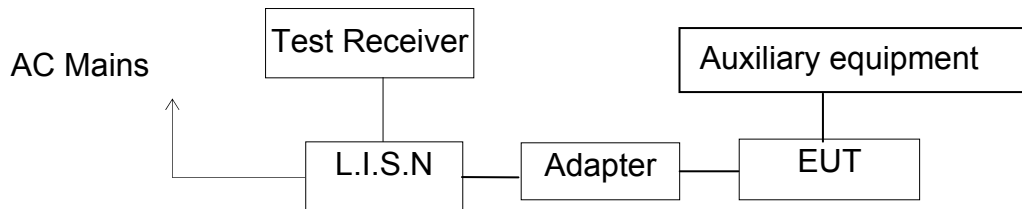
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	100307	Jan.10, 2015	1 Year
2.	Test Receiver	Rohde & Schwarz	ESPI	100396/003	Jan.10, 2015	1 Year
3.	Test Receiver	Rohde & Schwarz	ESPI	101526/003	Jan.10, 2015	1 Year
4.	Test Receiver	Rohde & 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	6200283936	Jan.10, 2015	1 Year
14.	50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	Jan.10, 2015	1 Year
15.	50Ω Coaxial Switch	Anritsu Corp	MP59B	6200506474	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

3.2. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan.10, 2015	1 Year
2.	Spectrum Analyzer	Rohde&Schwarz	FSV40	101495	Jan.10, 2015	1 Year
3.	Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan.10, 2015	1 Year
4.	Test Receiver	Rohde& Schwarz	ESPI	100396/003	Jan.10, 2015	1 Year
5.	Test Receiver	Rohde& Schwarz	ESPI	101526/003	Jan.10, 2015	1 Year
6.	Test Receiver	Rohde& Schwarz	ESR	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.	Log.-Per.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	Jan.10, 2015	1 Year
24.	RF Coaxial Cable	RESENBERGER	N-3.5m	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

4. POWER LINE CONDUCTED MEASUREMENT

4.1. Block Diagram of Test Setup



(EUT: Industrial Ethernet Switch)

4.2. Power Line Conducted Emission Measurement Limits (Class A)

Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	79	66
0.50 - 30.00	73	60

NOTE-The lower limit shall apply at the transition frequencies.

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

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

4.3. 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.

4.3.1. Industrial Ethernet Switch (EUT)

Model Number: WT-DS10208G-AT/AF-LP

Manufacturer: Shenzhen Wintop Optical Technology Co., Ltd

4.4. Operating Condition of EUT

4.4.1. Setup the EUT and simulator as shown as Section 4.2.

4.4.2. Turn on the power of all equipment.

4.4.3. Let the EUT work in test mode (Running) and measure it.

4.5. 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 AC 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.

4.6. Power Line Conducted Emission Measurement Results

PASS.

Test mode: Running								
Live								
MEASUREMENT RESULT: "FCCEA002_fin"								
2015-6-3 10:03								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dB μ V	dB	dB μ V	dB				
0.188000	51.40	10.6	79	27.6	QP	L1	GND	
8.318000	56.50	11.8	73	16.5	QP	L1	GND	
13.263500	51.60	11.9	73	21.4	QP	L1	GND	
MEASUREMENT RESULT: "FCCEA002_fin2"								
2015-6-3 10:03								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dB μ V	dB	dB μ V	dB				
0.188000	47.40	10.6	66	18.6	AV	L1	GND	
8.322500	52.40	11.8	60	7.6	AV	L1	GND	
13.263500	44.60	11.9	60	15.4	AV	L1	GND	
Neutral								
MEASUREMENT RESULT: "FCCEA001_fin"								
2015-6-3 10:01								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dB μ V	dB	dB μ V	dB				
0.188000	44.40	10.6	79	34.6	QP	N	GND	
8.318000	55.80	11.8	73	17.2	QP	N	GND	
12.993500	54.70	11.9	73	18.3	QP	N	GND	
MEASUREMENT RESULT: "FCCEA001_fin2"								
2015-6-3 10:01								
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dB μ V	dB	dB μ V	dB				
0.186000	39.90	10.6	66	26.1	AV	N	GND	
8.322500	51.90	11.8	60	8.1	AV	N	GND	
12.993500	47.50	11.9	60	12.5	AV	N	GND	

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

The spectral diagrams are attached as below.

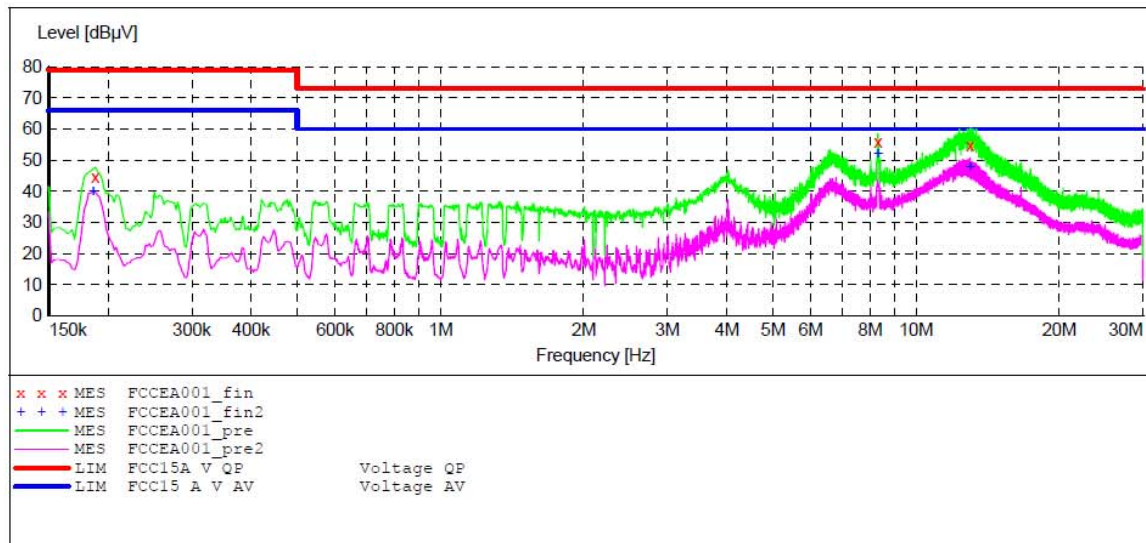
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15A

EUT: Industrial Ethernet Switch M/N:WT-DS10208G-AT/AF-LP
 Manufacturer: Wintop
 Operating Condition: Running
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20151113
 Start of Test: 2015-6-3 / 9:59:22

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

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "FCCEA001_fin"

2015-6-3 10:01

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.188000	44.40	10.6	79	34.6	QP	N	GND
8.318000	55.80	11.8	73	17.2	QP	N	GND
12.993500	54.70	11.9	73	18.3	QP	N	GND

MEASUREMENT RESULT: "FCCEA001_fin2"

2015-6-3 10:01

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.186000	39.90	10.6	66	26.1	AV	N	GND
8.322500	51.90	11.8	60	8.1	AV	N	GND
12.993500	47.50	11.9	60	12.5	AV	N	GND

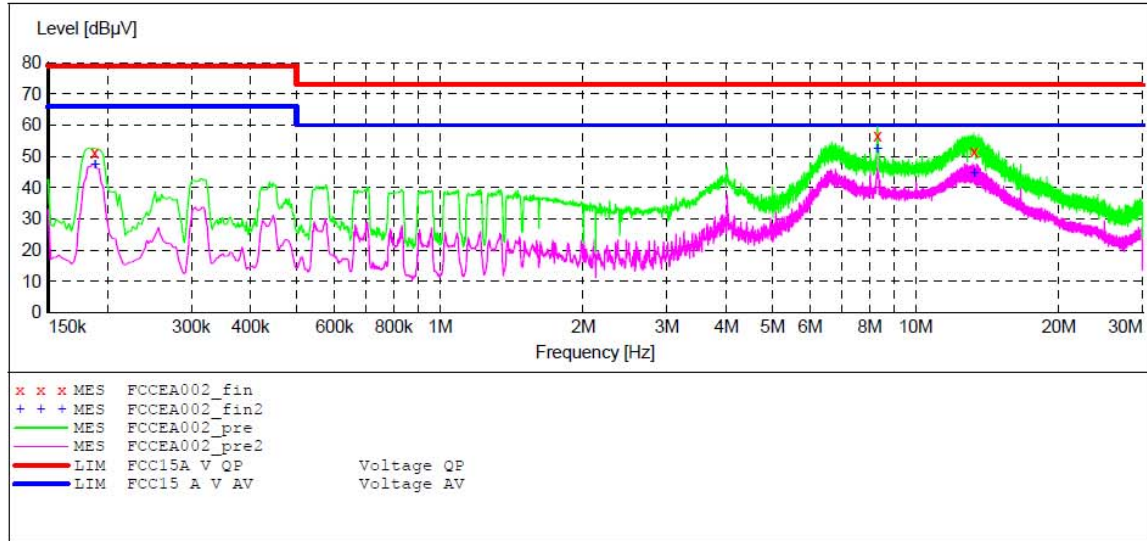
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15A

EUT: Industrial Ethernet Switch M/N:WT-DS10208G-AT/AF-LP
 Manufacturer: Wintop
 Operating Condition: Running
 Test Site: 2#Shielding Room
 Operator: star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20151113
 Start of Test: 2015-6-3 / 10:01:42

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

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz LISN (ESH3-Z5)
 Average



MEASUREMENT RESULT: "FCCEA002_fin"

2015-6-3 10:03

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.188000	51.40	10.6	79	27.6	QP	L1	GND
8.318000	56.50	11.8	73	16.5	QP	L1	GND
13.263500	51.60	11.9	73	21.4	QP	L1	GND

MEASUREMENT RESULT: "FCCEA002_fin2"

2015-6-3 10:03

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.188000	47.40	10.6	66	18.6	AV	L1	GND
8.322500	52.40	11.8	60	7.6	AV	L1	GND
13.263500	44.60	11.9	60	15.4	AV	L1	GND

5. RADIATED EMISSION MEASUREMENT

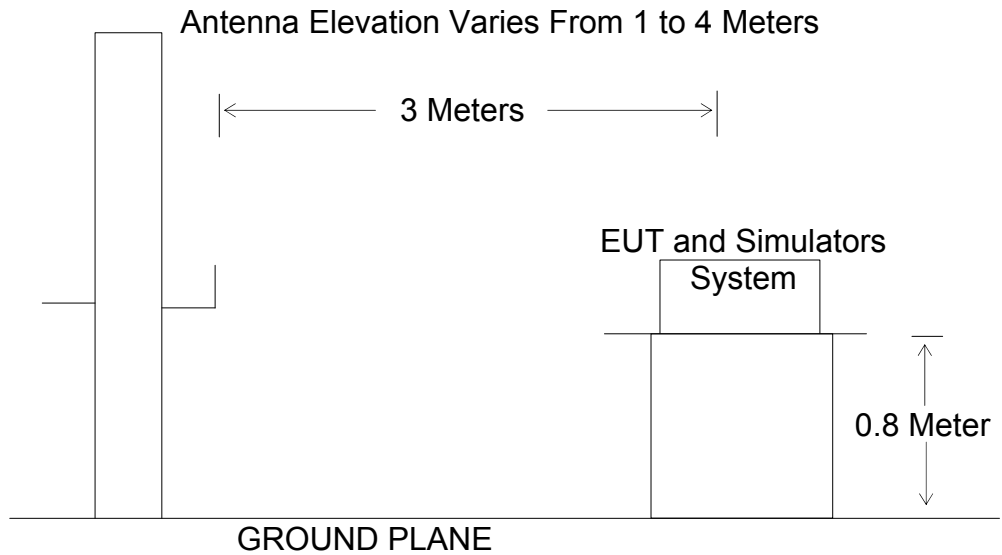
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators



(EUT: Industrial Ethernet Switch)

5.1.2. Anechoic Chamber Test Setup Diagram



(EUT: Industrial Ethernet Switch)

5.2. Radiated Emission Limit (Class A)

All emanations from a class A device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT
		dB(μ V/m)
30-88	3	49.0
88-216	3	53.5
216-960	3	56.4
Above 960	3	59.5

5.3. EUT Configuration on Measurement

The configuration of EUT is listed in Section 4.4.

5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in test mode (Running) and measure it.

5.5. 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 test receiver is set at 120kHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

5.6.Radiated Emission Noise Measurement Result

PASS.

Test mode: Running (below 1GHz)								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	554.1708	66.47	-12.75	53.72	56.40	-2.68	QP
	2	689.0510	63.57	-9.98	53.59	56.40	-2.81	QP
	3	798.6205	61.65	-7.80	53.85	56.40	-2.55	QP
	4	1000.0000	59.27	-4.70	54.57	59.50	-4.93	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	75.8520	65.97	-21.59	44.38	49.00	-4.62	QP
	2	122.7494	73.71	-22.67	51.04	53.50	-2.46	QP
	3	554.1708	65.87	-12.75	53.12	56.40	-3.28	QP
	4	862.8015	61.00	-6.75	54.25	56.40	-2.15	QP
Test mode: Running (Above 1GHz)								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1786.805	69.98	-8.41	61.57	80.00	-18.43	peak
	2	1786.805	65.10	-8.41	56.69	60.00	-3.31	AVG
	3	2462.772	67.06	-6.10	60.96	80.00	-19.04	peak
	4	2462.772	63.69	-6.10	57.59	60.00	-2.41	AVG
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1786.805	68.84	-8.41	60.43	80.00	-19.57	peak
	2	1786.805	63.79	-8.41	55.38	60.00	-4.62	AVG
	3	2462.772	64.69	-6.10	58.59	80.00	-21.41	peak
	4	2462.772	58.99	-6.10	52.89	60.00	-7.11	AVG

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

The spectral diagrams are attached as below.



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 #744

Standard: FCC Class A 3M Radiated

Test item: Radiation Test

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

EUT: Industrial Ethernet Switch

Mode: Running

Model: WT-DS10208G-AT/AF-LP

Manufacturer: Wintop

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2015/06/03

Time: 17:37:14

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20151113



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	75.8520	65.97	-21.59	44.38	49.00	-4.62	QP			
2	122.7494	73.71	-22.67	51.04	53.50	-2.46	QP			
3	554.1708	65.87	-12.75	53.12	56.40	-3.28	QP			
4	862.8015	61.00	-6.75	54.25	56.40	-2.15	QP			



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 #745

Standard: FCC Class A 3M Radiated

Test item: Radiation Test

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

EUT: Industrial Ethernet Switch

Mode: Running

Model: WT-DS10208G-AT/AF-LP

Manufacturer: Wintop

Polarization: Horizontal

Power Source: AC 120V/60Hz

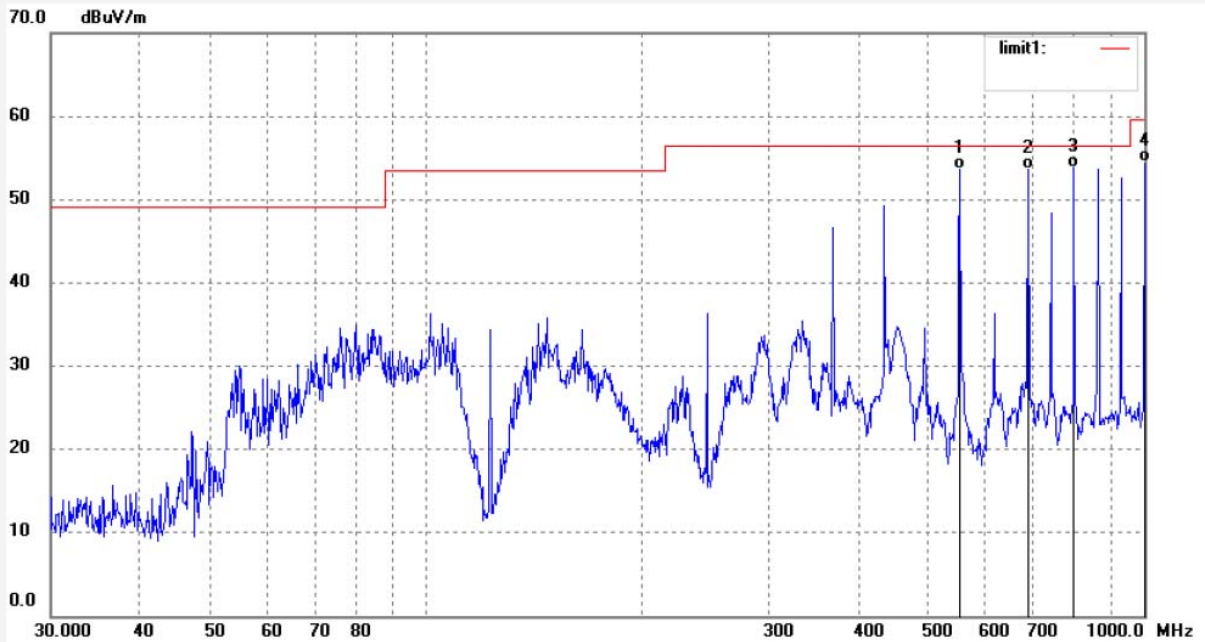
Date: 2015/06/03

Time: 17:37:52

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20151113



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	554.1708	66.47	-12.75	53.72	56.40	-2.68	QP			
2	689.0510	63.57	-9.98	53.59	56.40	-2.81	QP			
3	798.6205	61.65	-7.80	53.85	56.40	-2.55	QP			
4	1000.0000	59.27	-4.70	54.57	59.50	-4.93	QP			



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

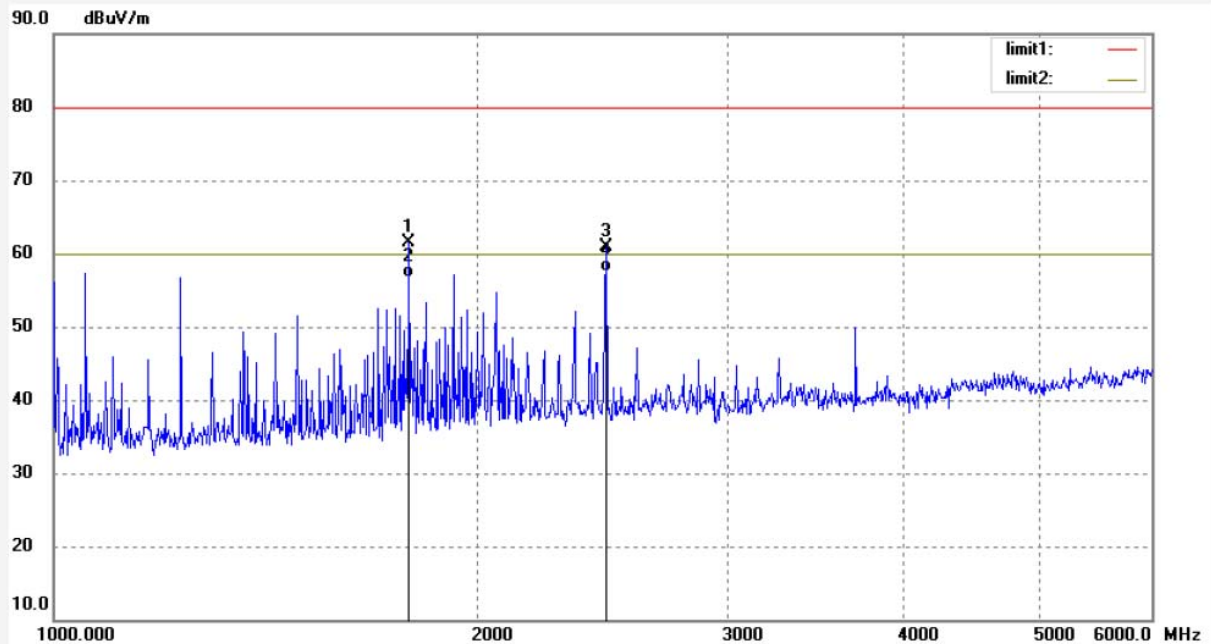
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR2015 #754
Standard: FCC CLASS A- PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Industrial Ethernet Switch
Mode: Running
Model: WT-DS10208G-AT/AF-LP
Manufacturer: Wintop

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2015/06/03
Time: 18:01:56
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20151113



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1786.805	69.98	-8.41	61.57	80.00	-18.43	peak			
2	1786.805	65.10	-8.41	56.69	60.00	-3.31	AVG			
3	2462.772	67.06	-6.10	60.96	80.00	-19.04	peak			
4	2462.772	63.69	-6.10	57.59	60.00	-2.41	AVG			



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Site: 1# Chamber

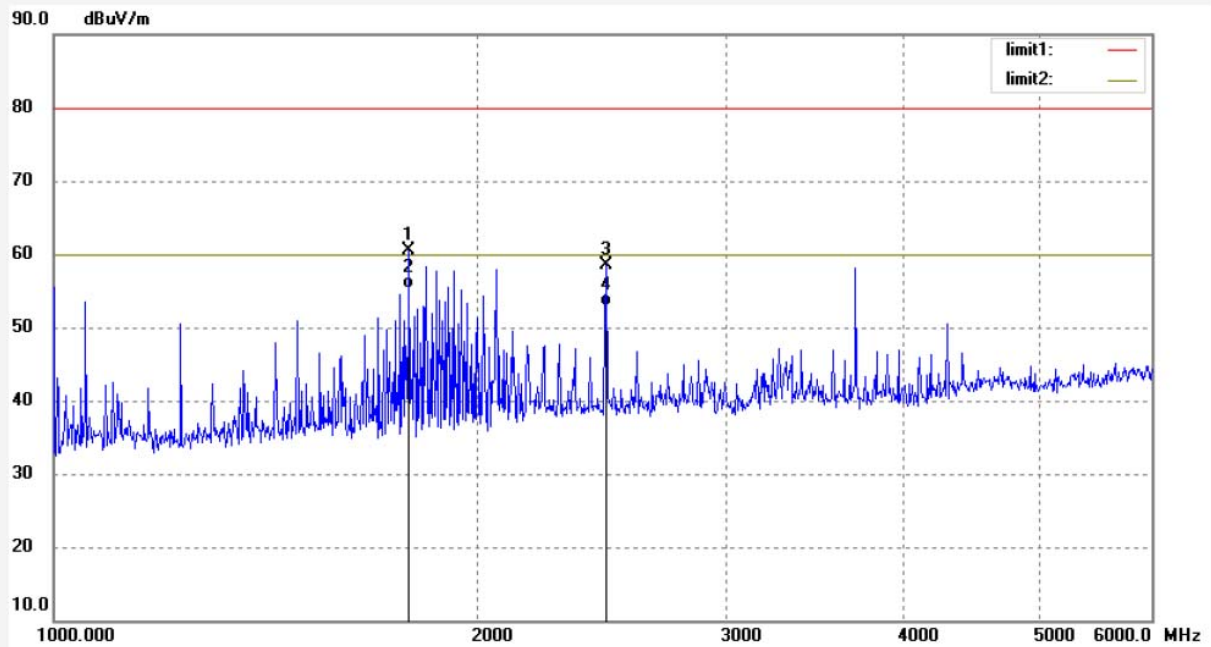
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR2015 #755
Standard: FCC CLASS A- PK
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Industrial Ethernet Switch
Mode: Running
Model: WT-DS10208G-AT/AF-LP
Manufacturer: Wintop

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2015/06/03
Time: 18:03:03
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20151113



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1786.805	68.84	-8.41	60.43	80.00	-19.57	peak			
2	1786.805	63.79	-8.41	55.38	60.00	-4.62	AVG			
3	2462.772	64.69	-6.10	58.59	80.00	-21.41	peak			
4	2462.772	58.99	-6.10	52.89	60.00	-7.11	AVG			

6. PHOTOGRAPHS

6.1.Photo of Conducted Emission Measurement



6.2.Photo of Radiated Emission Measurement



6.3.Photo of EUT



