

# **FCC Test Report** Project No. : 1709C099A Equipment : Smart Lite Giga Switch Test Model : VigorSwitch G1080 Series Model : N/A Applicant : DrayTek Corp. Address : No. 26, Fu Shing Rd., HuKou County, Hsin-Chu Industrial Park, Hsin-Chu, Taiwan R.O.C Date of Receipt : Sep. 19, 2017 Date of Test : Sep. 19, 2017 ~ Nov. 06, 2017 Issued Date : April 27, 2018 Tested by : BTL Inc. Som Wang (Sam Wang) **Testing Engineer Technical Manager** (Bill Zhang) Authorized Signatory Kevin Li) BTL INC. No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China. TEL: +86-769-8318-3000 FAX: +86-769-8319-6000 NVLAP LAB CODE 200788-0



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For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.





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## **REPORT ISSUED HISTORY**

Issued No.	Description	Issued Date
BTL-FCCE-1-1709C099	Original Issue.	Nov. 07, 2017
BTL-EMC-1-1709C099A	Compared with the previous report (BTL-FCCE-1-1709C099), product, brand, model name and applicant, manufacturer, factory information are changed which does not affect the test results, the rest are kept the same.	April 27, 2018





## 1. VERIFICATION

	Smart Lite Giga Switch DrayTek Corp.
Test Model :	VigorSwitch G1080
Series Model	
	DrayTek Corp.
Manufacturer :	DrayTek Corp.
Address :	No. 26, Fu Shing Rd., HuKou County, Hsin-Chu Industrial Park,
	Hsin-Chu,Taiwan R.O.C
Factory :	Intelligent TechnologyINC.
Address :	Yuanhe 3 Street, Tongsha Industrial Zone, Dongcheng Area, Dongguan,
	Guangdong, China
Date of Test :	Sep. 19, 2017 ~ Nov. 06, 2017
Test Sample :	Engineering Sample
Standard(s) :	FCC Part 15, Subpart B
	ANSI C63.4-2014

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCE-1-1709C099A) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).



# 2. SUMMARY OF TEST RESULTS

# Test procedures according to the technical standard(s):

EMC Emission				
Standard(s)	Test Item	Limit	Judgment	Remark
	Conducted Emission	Class B	PASS	
FCC Part15, Subpart B ANSI C63.4-2014	Radiated emission Below 1 GHz	Class B	PASS	
	Radiated emission Above 1 GHz	Class B	N/A	NOTE(1) NOTE(2)

#### NOTE:

- (1) " N/A" denotes test is not applicable to this device.
- (2) The EUT's max operating frequency is 25MHz which does not exceed 108 MHz, so the test will not be performed.



## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China. BTL's test firm number for FCC: 854385

BTL's designation number for FCC: CN5020

#### 2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2  $U_{cispr}$  requirement.

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expanded uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95**%.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 kHz ~ 30MHz	2.32

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		150 kHz ~ 30MHz		2.32
		9KHz ~ 30MHz	V	3.79
DG-CB03		9KHz ~ 30MHz	Н	3.57
	CISPR	30MHz ~ 200MHz	V	3.82
(3m)		30MHz ~ 200MHz	Н	3.78
		200MHz ~ 1,000MHz	V	4.10
		200MHz ~ 1,000MHz	Н	4.06

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.



## **3. GENERAL INFORMATION**

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Lite Giga Switch		
Brand Name	DrayTek Corp.		
Test Model	VigorSwitch G1080		
Series Model	N/A		
Model Difference	N/A		
Power Source	DC voltage supplied from AC/DC adapter. Brand/ Model: DVE / DSA-6PFG-05 FUS 050100		
Power Rating	I/P: AC 100-240V 50/60Hz 0.2A O/P: DC 5V 1A		
I/O Ports	LAN port, Power port		

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

#### 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	FULL SYSTEM

For Conducted Test		
Final Test Mode	Description	
Mode 1	FULL SYSTEM	

For Radiated Test		
Final Test Mode Description		
Mode 1	FULL SYSTEM	



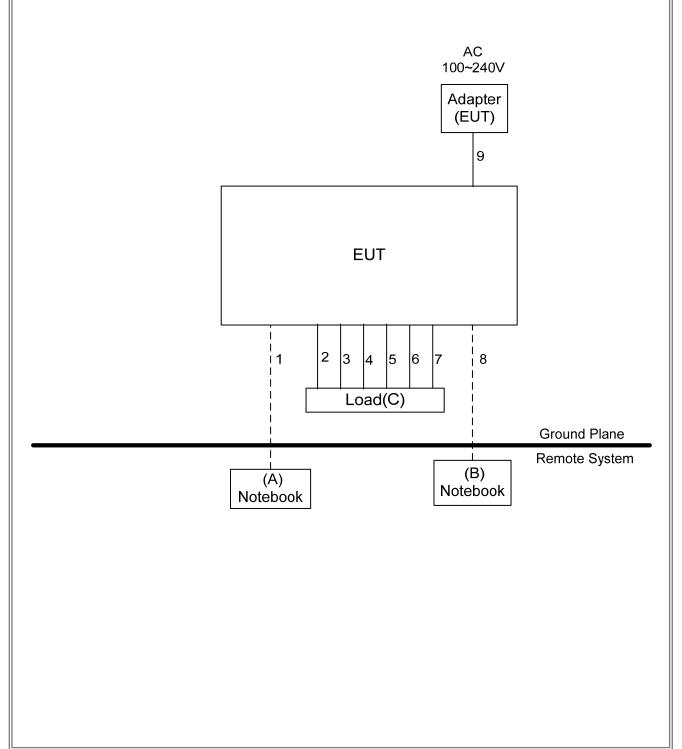
## 3.3 EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. The standard test signals and output signal as following:

1. EUT Connected to Load via RJ45 cable.

2. EUT Connected to Notebook via RJ45 cable.

#### 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





#### 3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
А	Notebook	Lenovo	E46L	DOC	EB22953770
В	Notebook	Lenovo	E445	DOC	MP-05Y56S
С	LOAD	N/A	N/A	N/A	N/A

Iten	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	10m	RJ45 Cable
2-7	NO	NO	1.5m	RJ45 Cable
8	NO	NO	10m	RJ45 Cable
9	NO	NO	1.5m	DC Cable





## 4. EMC EMISSION TEST

#### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 POWER LINE CONDUCTED EMISSION (FREQUENCY RANGE 150KHZ-30MHZ)

FREQUENCY (MHz)	Class A	(dBuV)	Class B (dBuV)		
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	
0.50 -5.0	73.00	60.00	56.00	46.00	
5.0 -30.0	73.00	60.00	60.00	50.00	

Note:

(1) The tighter limit applies at the band edges.

- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use) Margin Level = Measurement Value - Limit Value

#### 4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Measurement Software	Farad	EZ-EMC Ver.NB-03A 1-01	N/A	N/A
2	Cable	N/A	RG223	12m	Oct. 19, 2018
3	LISN	EMCO	3816/2	00052765	Mar. 26, 2018
4	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 26, 2018
5	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 26, 2018
6	EMI Test Receiver	R&S	ESCI	100382	Mar. 26, 2018

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.



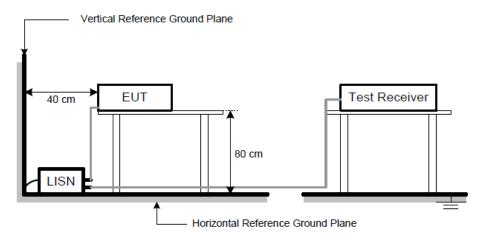
## 4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.
- f. First the whole spectrum of emission caused by equipment under test(EUT) is recorded with Detector set to peak. Peak value recorded in table if the margin from QP Limit is larger than 2dB,otherwise,QP value is recorded, Measuring frequency range from 150KHz to 30MHz.

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.5 TEST SETUP



#### 4.1.6 TEST RESULTS

#### Remark

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz; SPA setting in RBW=10KHz, VBW =10KHz, Swp. Time = 0.3 sec./MHz ° Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz, VBW=10KHz, Swp. Time =0.3 sec./MHz.
- (2) All readings are QP Mode value unless otherwise stated AVG in column of 『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform ∘ In this case, a "\*" marked in AVG Mode column of Interference Voltage Measured.





UT	Smart Lite Giga Switch	Model Name	VigorSwitch G1080						
Temperature	25°C	Relative Humidity	53%						
Test Voltage	AC 120V/60Hz	Phase	Line						
Test Mode	FULL SYSTEM	FULL SYSTEM							
Test Engineer	Sam Wang								
80 dBuV									
40			9   X   10   X   12   X						
0.15	0.50 1.00	5.00	10.00 30.00(MHz)						

Freq.	Level	Factor	ment	Limit	Margin	
MHz	dBuV	dB	dBuV	dBuV	dB	Detector
0.4110	<b>33. 9</b> 2	9.75	43.67	57.63	-13.96	QP
0.4110	22. 50	9.75	32.25	47.63	-15. 38	AVG
0.8070	29.31	9.76	39.07	56. 00	-16. 93	QP
0.8070	18. 60	9.76	28.36	46.00	-17.64	AVG
1.3875	29.83	9.80	39.63	56. 00	-16. 37	QP
1.3875	18.21	9.80	28. <b>0</b> 1	46.00	-17.99	AVG
9.1185	36.73	10.01	46.74	60.00	-13.26	QP
9.1185	25.31	10.01	35.32	50. 00	-14.68	AVG
11.0940	37.42	10.09	47.51	60.00	-12.49	QP
11.0940	26.60	10.09	36.69	50. 00	-13. 31	AVG
21.6645	32.26	10.29	42.55	60.00	-17.45	QP
21.6645	21.90	10.29	32.19	50.00	-17.81	AVG
	MHz 0.4110 0.4110 0.8070 0.8070 1.3875 1.3875 9.1185 9.1185 11.0940 11.0940 21.6645	Freq.     Level       MHz     dBuV       0.4110     33.92       0.4110     22.50       0.8070     29.31       0.8070     18.60       1.3875     29.83       1.3875     18.21       9.1185     36.73	Freq.     Level     Factor       MHz     dBuV     dB       0.4110     33.92     9.75       0.4110     22.50     9.75       0.4110     22.50     9.75       0.8070     29.31     9.76       0.8070     18.60     9.76       1.3875     29.83     9.80       1.3875     18.21     9.80       9.1185     36.73     10.01       9.1185     25.31     10.01       11.0940     37.42     10.09       11.0940     26.60     10.29	Freq.LevelFactormentMHzdBuVdBdBuV0.411033.929.7543.670.411022.509.7532.250.807029.319.7639.070.807018.609.7628.361.387529.839.8039.631.387518.219.8028.019.118536.7310.0146.749.118525.3110.0135.3211.094037.4210.0947.5111.094026.6010.0936.6921.664532.2610.2942.55	Freq.LevelFactormentLimitMHzdBuVdBdBuVdBuV0.411033.929.7543.6757.630.411022.509.7532.2547.630.807029.319.7639.0756.000.807018.609.7628.3646.001.387529.839.8039.6356.001.387518.219.8028.0146.009.118536.7310.0146.7460.009.118525.3110.0135.3250.0011.094037.4210.0947.5160.0011.094026.6010.0936.6950.0021.664532.2610.2942.5560.00	Freq.LevelFactormentLimitMarginMHzdBuVdBdBuVdBuVdB0.411033.929.7543.6757.63-13.960.411022.509.7532.2547.63-15.380.807029.319.7639.0756.00-16.930.807018.609.7628.3646.00-17.641.387529.839.8039.6356.00-16.371.387518.219.8028.0146.00-17.999.118536.7310.0146.7460.00-13.269.118525.3110.0947.5160.00-12.4911.094037.4210.0936.6950.00-13.3121.664532.2610.2942.5560.00-17.45





				_														1			
EUT				ę	Sma	art	Lite	e G	ig	a Switch		Model Name			VigorSwitch G1080						
Гетр	eratu	re		2	25°(	С						Relative Humidity				5	3%				
Test ∖	/oltag	je		F	٩C	120	)V/	60	Hz	2		Ph	ase					N	leutral		
Test N	Лode			F	UL	ULL SYSTEM															
Test E	Engin	eer		S	Sam Wang																
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No.	Free	1.	Read Leve			Cor: Fac			п	leasure ment	Lim		Mar	gin							
	MHz		dBuV			IB				lBuV	dBu		dB			Det	ect	tor			
1*	0.40		36.4			). 65				6. 14	57.		-11			QP					

	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1 *	0.4065	36.49	9.65	46.14	57.72	-11. 58	QP
2	0.4065	23.79	9.65	33.44	47.72	-14.28	AVG
3	0.7799	31.43	9.66	41.09	<b>56.00</b>	-14.91	QP
4	0.7799	20.60	9.66	30.26	46.00	-15.74	AVG
5	1. <b>0</b> 815	31.47	9.68	41.15	56. <b>00</b>	-14.85	QP
6	1. <b>0</b> 815	21.20	9.68	30.88	46.00	-15.12	AVG
7	9. 0285	34.88	9.95	44.83	60.00	-15.17	QP
8	9.0285	23.70	9.95	33.65	50.00	-16.35	AVG
9	11.5125	35.10	10.08	45.18	60.00	-14.82	QP
10	11. 5125	24.11	10.08	34.19	<b>50.00</b>	-15.81	AVG
11	21.6060	30.70	10.41	41.11	60.00	-18.89	QP
12	21.6060	19.30	10.41	29.71	5 <b>0. 00</b>	-20. 29	AVG



#### 4.2 RADIATED EMISSION MEASUREMENT

#### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Below 1 GHz

Measurement Method and Applied Limits: ANSI C63.4:

_	Class A	(at 10m)	Class B (at 3m)			
Frequency (MHz)	(uV/m) Field strength	(dBuV/m) Field strength	(uV/m) Field strength	(dBuV/m) Field strength		
30 - 88	90	39	100	40		
88 - 216	150	43.5	150	43.5		
216 - 960	210	46.4	200	46		
Above 960	300	49.5	500	54		

NOTE:

- (1) The limit for radiated test was performed according to as following: FCC Part 15, Subpart B
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m) = 20log Emission level (uV/m). 3m Emission level = 10m Emission level + 20log(10m/3m).
  (4) The test sector backstand test for the unique.
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

#### 4.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 26, 2018	
2	Amplifier	HP	8447D	2944A09673	Oct. 19, 2018	
3	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018	
4	Cable	emci	LMR-400(30 MHz-1GHz)( 8m+5m)	N/A	Jun. 26, 2018	
5	Controller	СТ	SC100	N/A	N/A	
6	Controller	MF	MF-7802	MF780208416	N/A	
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1 -01	N/A	N/A	

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.





#### 4.2.3 TEST PROCEDURE

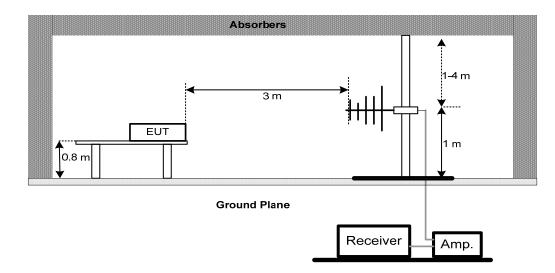
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The height of the equipment or of the substitution antenna shall be 0.8 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- e. For the actual test configuration, please refer to the related Item Block Diagram of system tested (please refer to 3.3).

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



#### 4.2.6 TEST RESULTS-BELOW 1GHZ

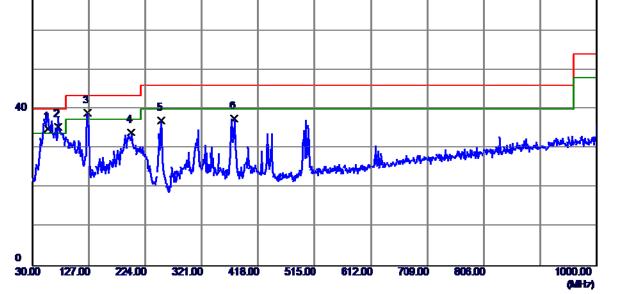
Remark :

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ∘
- (2) Measuring frequency range from 30MHz to 1000MHz  $\circ$
- (3) If the peak scan value lower limit more than 20dB, then this signal data does not show in table  $\circ$





EUT	Smart Lite Giga Switch	Model Name	VigorSwitch G1080						
Temperature	25°C	Relative Humidity	45%						
Test Voltage	AC 120V/60Hz	Polarization	Vertical						
Test Mode	FULL SYSTEM	FULL SYSTEM							
Test Engineer	Sam Wang								
80 dBuV/m									

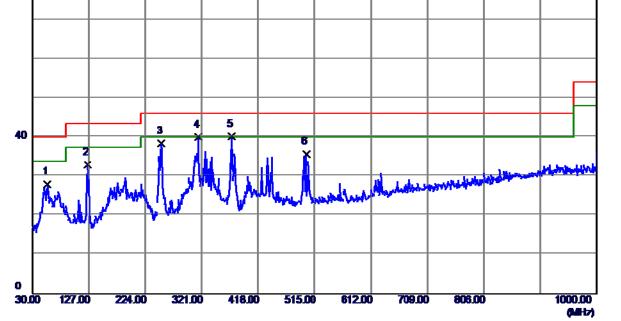


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	57.1600	48.73	-13.77	34.96	40.00	-5.04	QP
2 *	74.6200	52.33	-16.75	35. 58	40.00	-4.42	QP
3	125.0600	53.68	-14.70	38.98	43.50	-4.52	QP
4	200.7200	47.41	-13.36	<b>34.05</b>	43.50	-9.45	QP
5	252.1300	51.75	-14.58	37.17	46.00	-8.83	QP
6	377.2600	48.63	-10.99	37.64	46.00	-8.36	QP





EUT	Smart Lite Giga Switch	Model Name	VigorSwitch G1080					
Temperature	25°C	Relative Humidity	45%					
Test Voltage	AC 120V/60Hz	Polarization	Horizontal					
Test Mode	FULL SYSTEM							
Test Engineer	Sam Wang							
80 dBuV/m								



MHz     dBuV/m     dB     dBuV/m     dBuV/m     dB     Detector       1     56.1900     41.66     -13.68     27.98     40.00     -12.02     QP       2     125.0600     47.73     -14.70     33.03     43.50     -10.47     QP	
2 125. 0600 47. 73 -14. 70 33. 03 43. 50 -10. 47 QP	
3 252.1300 53.01 -14.58 38.43 46.00 -7.57 QP	
4 315. 1800 51. 96 -11. 99 39. 97 46. 00 -6. 03 QP	
5 * 372. 4100 51. 18 -11. 05 40. 13 46. 00 -5. 87 QP	
6 500. 4500 43. 62 -7. 92 35. 70 46. 00 -10. 30 QP	





# 5. EUT TEST PHOTO

Conducted Emission







## Radiated emission below 1 GHz

