

# **FCC Test Report** FCC ID: 2AFEJ-DWH69

**Product**: Graphic Tablet (Pen Tablet)

Trade Name: HUION

Model Number: DWH69

Serial Model: DWH1410,WH1409,W58,WH850,WH580,

WH690E,W58pro,DW69

Report No.: NTEK-2015NT06091976F1

#### **Prepared for**

Shenzhen Huion Animation Technology Co.,ltd.

Unit D, Floor 2, Building B Shifeng Technology Park, Huangmabu Community, Xixiang Road, Baoan District, ShenZhen City, China

#### Prepared by

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# **TEST RESULT CERTIFICATION**

Applicant's name:	Shenzhen Huion Animation Technology Co.,ltd.
Address:	Unit D, Floor 2, Building B Shifeng Technology Park, Huangmabu Community, Xixiang Road,Baoan District,ShenZhen City, China
Manufacturer's Name:	Shenzhen Huion Animation Technology Co.,ltd.
Address:	Unit D, Floor 2, Building B Shifeng Technology Park, Huangmabu Community, Xixiang Road,Baoan District,ShenZhen City, China
Product description	
Product name:	Graphic Tablet (Pen Tablet)
Model and/or type reference :	DWH69
Standards:	FCC Part15B:01 Oct.2014 ANSI C63.4:2014
	is been tested by NTEK, and the test results show that the n compliance with Part 15 of FCC Rules. And it is applicable only to ne report.
This report shall not be reproduc	ced except in full, without the written approval of NTEK, this
document may be altered or rev	rised by NTEK, personnel only, and shall be noted in the revision of
the document.	
Date of Test	
Date (s) of performance of tests	
Date of Issue	: 10 Jul. 2015
Test Result	Pass
Testing Engine	eer : Juson Chen)
	(Jason Chen)
Technical Man	pager : $\mathcal{F}_{\mathcal{W}_{\mathcal{N}}} \ell_{\mathcal{N}}$
	(Brown Lu)

(Bill Yao)

Authorized Signatory:



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# 1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission							
Standard	Test Item	Limit	Judgment	Remark			
FCC Part15B:2014	Conducted Emission	Class B	PASS				
ANSI C63.4: 2014	Radiated Emission	Class B	PASS				

## NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.



#### 1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration Number:238937; IC Registration Number:9270A-1

CNAS Registration Number:L5516

## 1.2 MEASUREMENT UNCERTAINTY

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

#### A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

#### B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	



# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Graphic Tablet (Pen Tabl	Graphic Tablet (Pen Tablet)			
Model Name	DWH69				
Additional Model Number(s)	DWH1410,WH1409,W58 WH690E,W58pro,DW69	DWH1410,WH1409,W58,WH850,WH580, WH690E,W58pro,DW69			
Model Difference	All the model are the same circuit and RF module, except the model name and colour.				
Product Description	The EUT is a Graphic Tablet (Pen Tablet).  Connecting I/O port: USB Operation Frequency: 2405~2480 MHz  Modulation Type: O-QPSK				
Power Source	DC Voltage				
Adapter	N/A	N/A			
Battery	Tablet :DC 3.7V,2100mA Pen:DC 3.7V	Tablet :DC 3.7V,2100mAh Pen:DC 3.7V			



## 2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates 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.

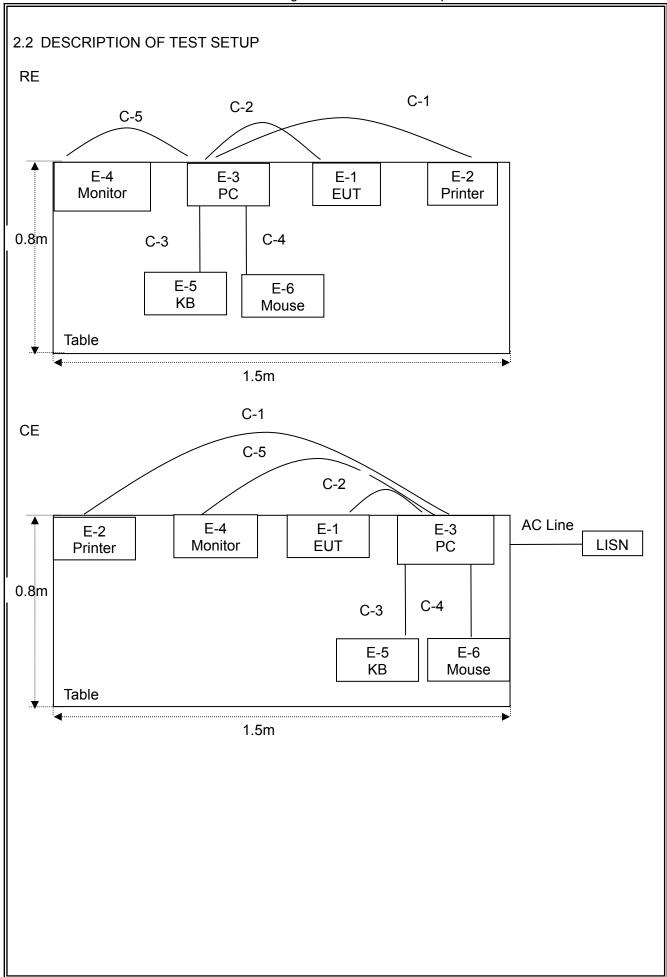
Pretest Mode	Description
Mode 1	Downloading +Charging
Mode 2	Receive

For Conducted Test			
Final Test Mode	Description		
Mode 1	Downloading +Charging		

For Radiated Test				
Final Test Mode	Description			
Mode 1	Downloading +Charging			

Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worse case. Only the worst case mode is recorded in the report.







## 2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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	Brand	Model/Type No.	Series No.	Note
E-1	Graphic Tablet (Pen Tablet)	HUION	DWH69	N/A	EUT
E-2	Printer	Canon	L11121E	LBP2900	
E-3	Personal computer	DELL	FT4Y23X	34413561645	
E-4	Monitor	DELL	IN2020MB	cn-0y6mhx-74261-11f- 67es	
E-5	Keyboard	DELL	SK-8185	OY526KUS	
E-6	Mouse	DELL	MS111-P	cn-011d3v-71581-11e- 1th7	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	
C-2	NO	NO	1.0m	
C-3	NO	NO	1.0m	
C-4	NO	NO	1.0m	
C-5	NO	NO	1.0m	

#### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length\_"</code> column.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".



2.4 MEASUREMENT INSTRUMENTS LIST

# 2.4.1 CONDUCTED TEST SITE

4.7.1	::4.1 CONDOCTED TEST SITE						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibra tion period
1	LISN	R&S	ENV216	101313	Jul. 06, 2015	Jul. 05, 2016	1 year
2	LISN	SCHWARZBE CK	NNLK 8129	8129245	Dec. 25, 2014	Dec. 24, 2015	1 year
3	Pulse Limiter	SCHWARZBE CK	VTSD 9561F	9716	Dec. 25, 2014	Dec. 24, 2015	1 year
4	50Ω Switch	ANRITSU CORP	MP59B	6200983704	Jul. 06, 2015	Jul. 05, 2016	1 year
5	Test Cable	N/A	C01	N/A	Jul. 06, 2015	Jul. 05, 2016	1 year
6	Test Cable	N/A	C02	N/A	Jul. 06, 2015	Jul. 05, 2016	1 year
7	Test Cable	N/A	C03	N/A	Jul. 06, 2015	Jul. 05, 2016	1 year
8	EMI Test Receiver	R&S	ESCI	101160	Jul. 06, 2015	Jul. 05, 2016	1 year
9	Passive Voltage Probe	ESH2-Z3	R&S	100196	Jul. 06, 2015	Jul. 05, 2016	1 year
10	Absorbing Clamp	R&S	MDS-21	100423	Jul. 08, 2015	Jul. 07, 2016	1 year

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibra tion period
1	LISN	R&S	ENV216	101313	Jul. 06, 2014	Jul. 05, 2015	1 year
4	50Ω Switch	ANRITSU CORP	MP59B	6200983704	Jul. 06, 2014	Jul. 05, 2015	1 year
5	Test Cable	N/A	C01	N/A	Jul. 06, 2014	Jul. 05, 2015	1 year
6	Test Cable	N/A	C02	N/A	Jul. 06, 2014	Jul. 05, 2015	1 year
7	Test Cable	N/A	C03	N/A	Jul. 06, 2014	Jul. 05, 2015	1 year
8	EMI Test Receiver	R&S	ESCI	101160	Jul. 06, 2014	Jul. 05, 2015	1 year
9	Passive Voltage Probe	ESH2-Z3	R&S	100196	Jul. 06, 2014	Jul. 05, 2015	1 year
10	Absorbing Clamp	R&S	MDS-21	100423	Jul. 08, 2014	Jul. 07, 2015	1 year



# 2.4.2 RADIATED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibra tion period
1	Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06, 2015	Jul. 05, 2016	1 year
2	Test Cable	N/A	R-01	N/A	Dec. 25, 2014	Dec. 24, 2015	1 year
3	Test Cable	N/A	R-02	N/A	Dec. 25, 2014	Dec. 24, 2015	1 year
4	EMI Test Receiver	R&S	ESCI-7	101318	Jul. 06, 2015	Jul. 05, 2016	1 year
5	Antenna Mast	EM	SC100_1	N/A	N/A	N/A	N/A
6	Turn Table	EM	SC100	060531	N/A	N/A	N/A
7	50Ω Switch	Anritsu Corp	MP59B	6200983705	Jul. 06, 2015	Jul. 05, 2016	1 year
8	Spectrum Analyzer	Aglient	E4407B	MY45108040	Jul. 06, 2015	Jul. 05, 2016	1 year
9	Horn Antenna	EM	EM-AH-10180	2011071402	Jul. 06, 2015	Jul. 05, 2016	1 year
10	Amplifier	EM	EM-30180	060538	Jul. 06, 2015	Jul. 05, 2016	1 year
11	Loop Antenna	ARA	PLA-1030/B	1029	Jul. 06, 2015	Jul. 05, 2016	1 year

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibra tion period
1	Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06, 2014	Jul. 05, 2015	1 year
4	EMI Test Receiver	R&S	ESCI-7	101318	Jul. 06, 2014	Jul. 05, 2015	1 year
7	50Ω Switch	Anritsu Corp	MP59B	6200983705	Jul. 06, 2014	Jul. 05, 2015	1 year
8	Spectrum Analyzer	Aglient	E4407B	MY45108040	Jul. 06, 2014	Jul. 05, 2015	1 year
9	Horn Antenna	EM	EM-AH-10180	2011071402	Jul. 06, 2014	Jul. 05, 2015	1 year
10	Amplifier	EM	EM-30180	060538	Jul. 06, 2014	Jul. 05, 2015	1 year
11	Loop Antenna	ARA	PLA-1030/B	1029	Jul. 06, 2014	Jul. 05, 2015	1 year



## 3. EMC EMISSION TEST

## 3.1 CONDUCTED EMISSION MEASUREMENT

## 3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		
PREQUENCY (MINZ)	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.

The following table is the setting of the receiver

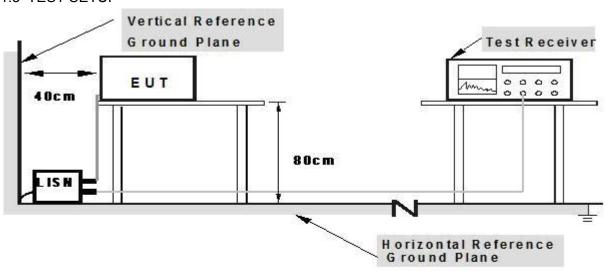
The following table is the setting of the receiver	
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



#### 3.1.2 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.

#### 3.1.3 TEST SETUP



Note: 1. Support units were connected to second LISM.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

### 3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

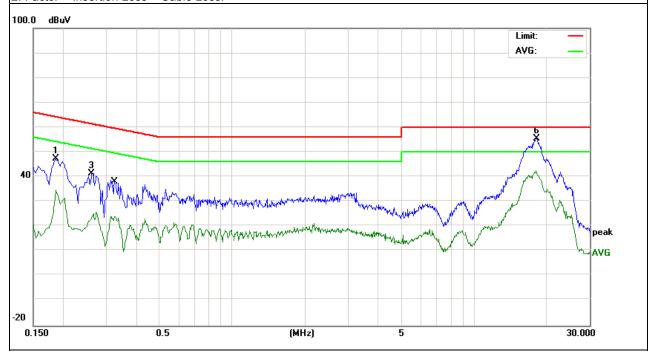


3.1.5 TEST RESULTS

EUT:	Graphic Tablet (Pen Tablet)	Model Name. :	DWH69		
Temperature :	26 ℃	Relative Humidity:	54%		
Pressure :	1010hPa	Test Date :	2015-07-05		
Test Mode:	Mode 1	Phase :	L		
Test Voltage :	DC 5V From PC AC 120V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demont
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1860	37.67	9.61	47.28	64.21	-16.93	QP
0.1860	25.09	9.61	34.70	54.21	-19.51	AVG
0.2620	31.75	9.69	41.44	61.36	-19.92	QP
0.3260	14.30	9.64	23.94	49.55	-25.61	AVG
18.0140	32.73	9.90	42.63	50.00	-7.37	AVG
18.1220	45.66	9.90	55.56	60.00	-4.44	QP

- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.

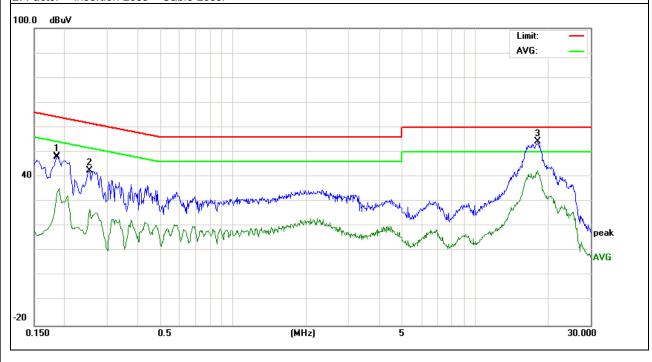




EUT:	Graphic Tablet (Pen Tablet)	Model Name. :	DWH69	
Temperature :	26 ℃	Relative Humidity:	54%	
Pressure:	1010hPa	Test Date :	2015-07-05	
Test Mode:	Mode 1	Phase :	N	
Test Voltage :	DC 5V From PC AC 120V/60Hz			

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1859	38.55	9.61	48.16	64.21	-16.05	QP
0.2540	32.93	9.67	42.60	61.62	-19.02	QP
18.1539	44.42	9.90	54.32	60.00	-5.68	QP
0.1900	25.60	9.61	35.21	54.03	-18.82	AVG
0.2540	17.16	9.67	26.83	51.62	-24.79	AVG
18.1339	32.54	9.90	42.44	50.00	-7.56	AVG

- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.



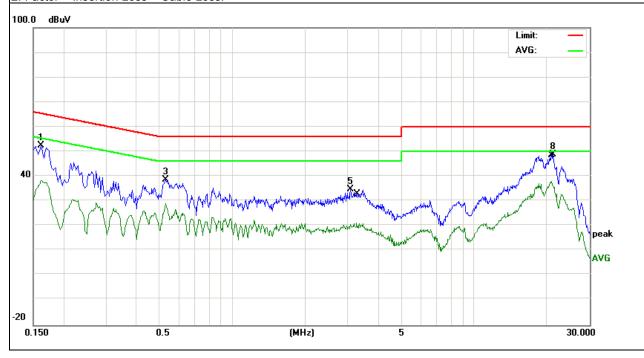


EUT: Graphic Tablet (Pen Tablet) Model Name. : DWH69 Temperature: 26 ℃ Relative Humidity: 54% Pressure: 1010hPa Test Date: 2015-07-05 Test Mode: Phase: Mode 1 Test Voltage : DC 5V From PC AC 240V/60Hz

Report No.: NTEK-2015NT06091976F1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1620	42.78	9.62	52.40	65.36	-12.96	QP
0.1620	28.74	9.62	38.36	55.36	-17.00	AVG
0.5299	29.01	9.77	38.78	56.00	-17.22	QP
0.5299	19.21	9.77	28.98	46.00	-17.02	AVG
3.0860	25.06	9.67	34.73	56.00	-21.27	QP
3.2659	11.48	9.68	21.16	46.00	-24.84	AVG
20.8340	28.05	9.96	38.01	50.00	-11.99	AVG
21.1700	38.92	9.96	48.88	60.00	-11.12	QP

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



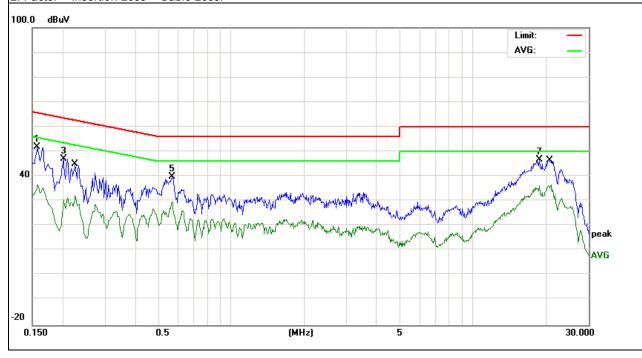


EUT: Graphic Tablet (Pen Tablet) Model Name. : DWH69 Relative Humidity: 54% Temperature: 26 ℃ Pressure: 1010hPa Test Date: 2015-07-05 Test Mode: Phase: Ν Mode 1 Test Voltage : DC 5V From PC AC 240V/60Hz

Report No.: NTEK-2015NT06091976F1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1580	42.29	9.60	51.89	65.56	-13.67	QP
0.1580	27.01	9.60	36.61	55.56	-18.95	AVG
0.2020	37.41	9.61	47.02	63.52	-16.50	QP
0.2260	22.61	9.61	32.22	52.59	-20.37	AVG
0.5700	30.15	9.67	39.82	56.00	-16.18	QP
0.5700	20.00	9.67	29.67	46.00	-16.33	AVG
18.8100	36.94	9.82	46.76	60.00	-13.24	QP
20.9260	26.83	9.85	36.68	50.00	-13.32	AVG

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.





#### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

	Class A (at 10m)	Class B (at 3m)	
FREQUENCY (MHz)	dBuV/m	dBuV/m	
30 ~ 88	39.0	40.0	
88 ~ 216	43.5	43.5	
216 ~ 960	46.5	46.0	
Above 960	49.5	54.0	

#### Notes:

- (1) The limit for radiated test was performed according to as following: FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### 3.2.2 TEST PROCEDURE

## Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

#### Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.



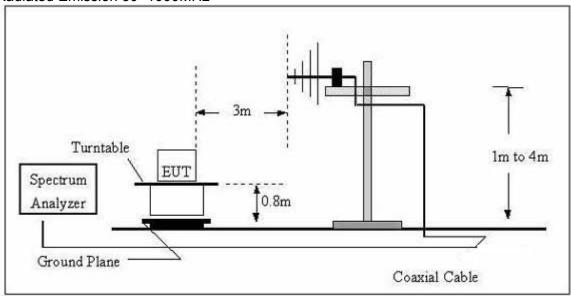
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the wors case is recorded in the report

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

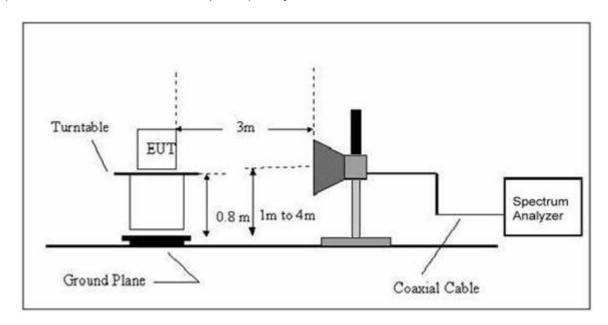
Frequency Band (MHz)	Function		Video Bandwidth	
30 to 1000	QP	120 kHz	300 kHz	
	Peak	1 MHz	1 MHz	
Above 1000	Peak	1 MHz	10 Hz	

#### 3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



## (B) Radiated Emission Test Set-Up Frequency Above 1GHz





## 3.2.4 TEST RESULTS

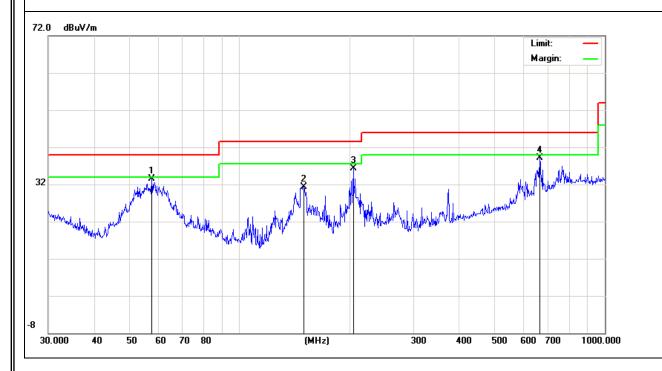
# TEST RESULTS (30~1000 MHz)

EUT:	Graphic Tablet (Pen Tablet)	Model Name :	DWH69			
Temperature :	<b>24</b> ℃	Relative Humidity:	54%			
Pressure:	1010 hPa	Test Date :	2015-07-05			
Test Mode :	Mode 1	Polarization :	Horizontal			
Test Power :	DC 5V From PC AC 120V/60Hz					

Freq.	Reading	Factor	Measurement	Limit	Over	over Remark	
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	Remark	
57.5938	24.96	8.52	33.48	40.00	-6.52	QP	
150.0107	20.94	10.41	31.35	43.50	-12.15	QP	
204.955	25.11	11.11	36.22	43.50	-7.28	QP	
663.4728	15.40	23.78	39.18	46.00	-6.82	QP	

#### Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.





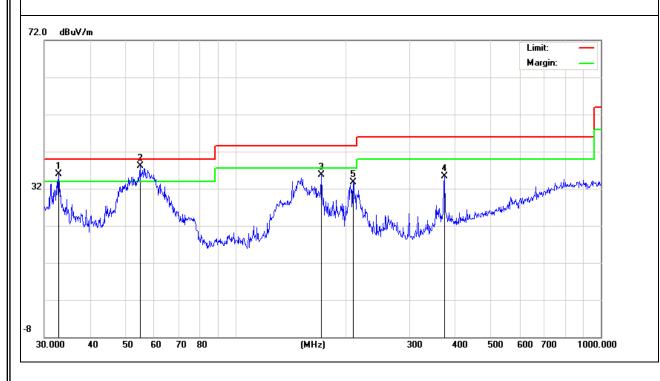
Graphic Tablet (Pen Tablet) EUT: Model Name : DWH69 Relative Humidity: 54% Temperature: **24** ℃ Pressure: 1010 hPa Test Date: 2015-07-05 Test Mode : Mode 1 Polarization: Vertical Test Power : DC 5V From PC AC 120V/60Hz

Report No.: NTEK-2015NT06091976F1

Freq.	Reading	Factor	Measurement	Limit	Over	r Remark	
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	Kemark	
32.8637	17.99	17.86	35.85	40.00	-4.15	QP	
54.8348	28.73	9.31	38.04	40.00	-1.96	QP	
171.9945	25.20	10.57	35.77	43.50	-7.73	QP	
373.3111	18.04	17.20	35.24	46.00	-10.76	QP	
210.0482	22.19	11.46	33.65	43.50	-9.85	QP	

#### Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.





# 3.2.5 TEST RESULTS(1000~12400MHz)

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	1894.621	85.96	-17.15	68.81	74.00	-5.19	peak
V	1894.621	60.82	-17.15	43.67	54.00	-10.33	AVG
V	2657.389	82.37	-15.76	66.61	74.00	-7.39	peak
V	2657.389	59.34	-15.76	43.58	54.00	-10.42	AVG
V	4013.629	76.71	-11.22	65.49	74.00	-8.51	peak
V	4013.629	53.98	-11.22	42.76	54.00	-11.24	AVG
Н	1896.351	81.81	-17.14	64.67	74.00	-9.33	peak
Н	1896.351	58.40	-17.14	41.26	54.00	-12.74	AVG
Н	3116.378	82.03	-15.54	66.49	74.00	-7.51	peak
Н	3116.378	58.51	-15.54	42.97	54.00	-11.03	AVG
Н	4361.254	75.44	-10.13	65.31	74.00	-8.69	peak
Н	4361.254	51.49	-10.13	41.36	54.00	-12.64	AVG

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



# 4. EUT TEST PHOTO









# **Conducted Measurement Photos**

