

FCC TEST REPORT

REPORT NO.: RF150613E01-1

MODEL NO.: CDS-600*****(* may be alphanumeric/symbol or blank)

FCC ID: HV4CDS600

RECEIVED: May 28, 2015

TESTED: May 28 to June 17, 2015

ISSUED: July 08, 2015

APPLICANT: Wacom Co., Ltd.

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ISSUED BY: Bureau Veritas Consumer Products Services
(H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF150613E01-1	Original release	July 08, 2015

1. CERTIFICATION

PRODUCT: Digital Notepad
BRAND NAME: Wacom
MODEL NO.: CDS-600*****(* may be alphanumeric/symbol or blank)
TEST SAMPLE: ENGINEERING SAMPLE
APPLICANT: Wacom Co., Ltd.
TESTED: May 28 to June 17, 2015
STANDARDS: **FCC Part 15, Subpart C (Section 15.209)**
ANSI C63.10-2009

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared By : midoli Peng , **Date:** July 08, 2015
(Midoli Peng, Specialist)

Approved By : May Chen , **Date:** July 08, 2015
(May Chen, Manager)



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2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.209)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -22.78 dB at 0.33575 MHz
15.209	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -14.8dB at 836.981MHz
15.203	Antenna Requirement	PASS	No antenna connector is used.

2.1 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:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Measurement	Value
Conducted emissions	2.86 dB
Radiated emissions (30-1000MHz)	5.43 dB

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Digital Notepad
MODEL NO.	CDS-600*****(* may be alphanumeric/symbol or blank)
POWER SUPPLY	DC 5V from USB interface DC 3.9V from Battery
POWER CORD	NA
FREQUENCY RANGE	562.5 kHz
NUMBER OF CHANNEL	1
ANTENNA TYPE	Loop antenna
DATA CABLE	USB to Mini USB cable x 1 (unshielded, 1m)
I/O PORTS	Refer to user's manual
ASSOCIATED DEVICES	Pen x 1 (Brand: Wacom, Model: UP-3703) Notebook x 1

Note:

- The EUT has three types which are identical to each other in all aspects except for the following table:

Product Name	Brand	Model	Type	Difference
Digital Notepad	Wacom	CDS-600	Cover Type	1. With the same HW/SW 2. With different appearance.
			Pocket Type	
			Sleeve Type	

From the above types, type: **Cover Type** was selected as representative model for the test and its data was recorded in this report.

- The EUT was pre-tested under following test modes :

Pre-test Mode	Power
Mode A	Battery
Mode B	Power from USB interface

From the above modes, the worst spurious emission was found in **Mode B**. Therefore only the test data of the modes were recorded in this report.

- For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

3.2 DESCRIPTION OF TEST MODES

One channel is provided to this EUT.

Channel	Frequency
1	562.5 kHz

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO		DESCRIPTION
	PLC	RE	
-	√	√	-

Where **PLC**: Power Line Conducted Emission

RE: Radiated Emission below 1GHz

NOTE: The EUT had been pre-tested on the positioned of each 3 axis. For Radiated emissions (9 kHz ~ 30 MHz), the worst case was found when positioned on **Z-plane**: for Radiated emissions (30-1000MHz), the worst case was found when positioned on **X-plane**.

POWER LINE CONDUCTED EMISSION TEST:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

TESTED CHANNEL	FREQUENCY
1	562.5 kHz

RADIATED EMISSION TEST:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

TESTED CHANNEL	FREQUENCY
1	562.5 kHz

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
PLC	25deg. C, 64%RH	120Vac, 60Hz	JyunChun.Lin
RE<1G	22deg. C, 66%RH	120Vac, 60Hz	Andy Ho
	25deg. C, 70%RH	120Vac, 60Hz	Tim Ho

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.209)

ANSI C63.10-2009

All test items have been performed and recorded as per the above standards.

NOTE: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

3.4 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.

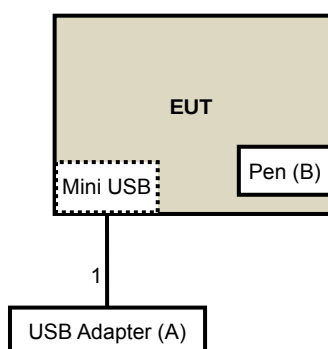
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	USB Adapter	Nicelink	US-T12B(W)	NA	NA	Provided by Lab
B.	Pen	Wacom	UP-3703	NA	NA	Accessory

Note:

1. All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB to Mini USB cable	1	1	No	0	Accessory

3.5 CONFIGURATION OF SYSTEM UNDER TEST



4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	100375	May 06, 2015	May 05, 2016
Line-Impedance Stabilization Network (for EUT) SCHWARZBECK	NSLK-8127	8127-522	Sep. 15, 2014	Sep. 14, 2015
Line-Impedance Stabilization Network (for Peripheral) R&S	ENV216	100071	Nov. 10, 2014	Nov. 09, 2015
RF Cable	5D-FB	COCCAB-001	Mar. 09, 2015	Mar. 08, 2016
50 ohms Terminator	N/A	EMC-03	Sep. 22, 2014	Sep. 21, 2015
50 ohms Terminator	N/A	EMC-02	Sep. 30, 2014	Sep. 29, 2015
Software BVADT	BVADT_Cond_ V7.3.7.3	NA	NA	NA

Note:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. C.
3. The VCCI Con C Registration No. is C-3611.
4. Tested Date: June 15, 2015

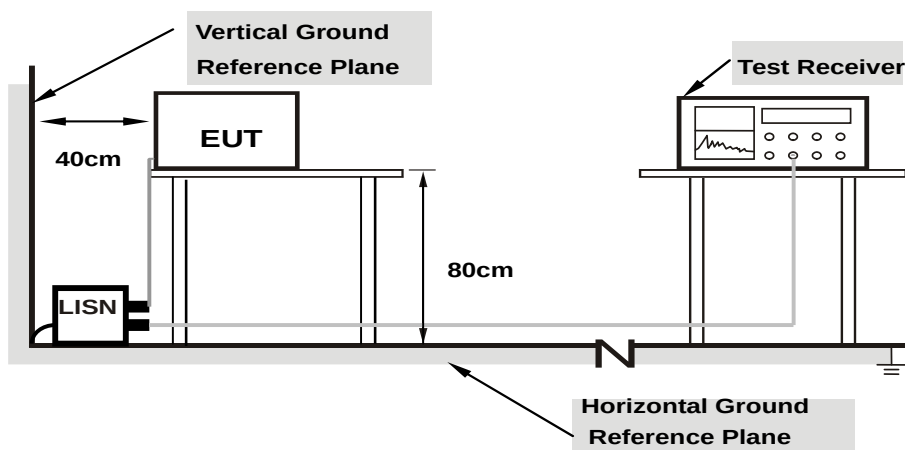
4.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.1.6 EUT OPERATING CONDITIONS

1. Placed the EUT on testing table.
2. Controlling software has been activated to set the EUT under transmission/receiving condition continuously.

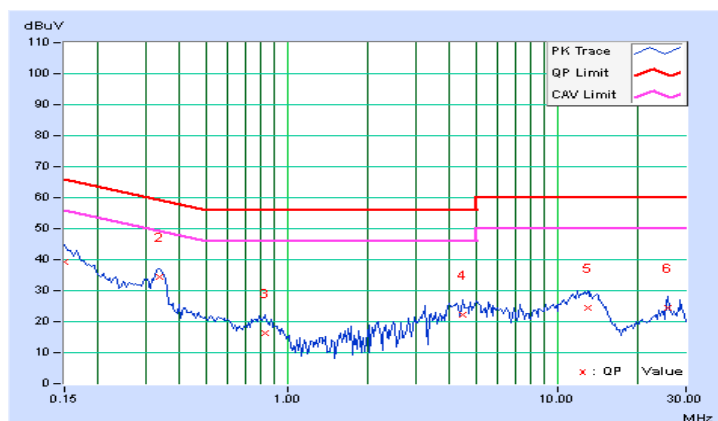
4.1.7 TEST RESULTS

PHASE	Line (L)	6dB BANDWIDTH	9 kHz
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No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
	[MHz]	Factor	[dB (uV)]	[dB (uV)]	[dB (uV)]	[dB (uV)]	[dB (uV)]	[dB (uV)]	(dB)	(dB)
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.14	39.15	28.20	39.29	28.34	66.00	56.00	-26.71	-27.66
2	0.33575	0.16	34.13	26.36	34.29	26.52	59.31	49.31	-25.01	-22.78
3	0.83359	0.19	16.00	7.08	16.19	7.27	56.00	46.00	-39.81	-38.73
4	4.48047	0.41	21.64	8.12	22.05	8.53	56.00	46.00	-33.95	-37.47
5	12.94922	0.85	23.73	17.60	24.58	18.45	60.00	50.00	-35.42	-31.55
6	25.69531	1.32	23.01	14.53	24.33	15.85	60.00	50.00	-35.67	-34.15

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

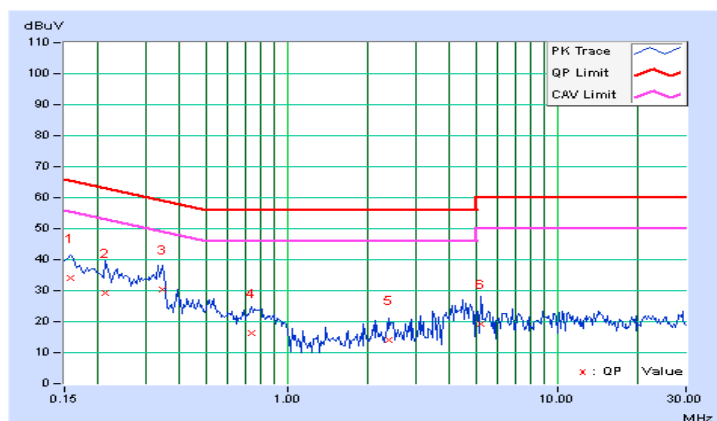


PHASE	Neutral (N)	6dB BANDWIDTH	9 kHz
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No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	0.14	33.87	14.65	34.01	14.79	65.58	55.58	-31.57	-40.79
2	0.21250	0.15	29.02	13.49	29.17	13.64	63.11	53.11	-33.93	-39.46
3	0.34531	0.18	30.17	19.02	30.35	19.20	59.07	49.07	-28.73	-29.88
4	0.73594	0.22	16.17	3.37	16.39	3.59	56.00	46.00	-39.61	-42.41
5	2.38672	0.32	13.57	3.09	13.89	3.41	56.00	46.00	-42.11	-42.59
6	5.21094	0.49	18.82	2.82	19.31	3.31	60.00	50.00	-40.69	-46.69

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



4.2 RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

FOR FREQUENCY BELOW 30MHz

FREQUENCY (MHz)	FIELD STRENGTH (dBuV/m)		MEASUREMENT DISTANCE (meters)
	uV/m	dBuV/m	
0.009 – 0.490	2400 / F (kHz)	48.52-13.80	300
0.490 – 1.705	24000 / F (kHz)	33.80-22.97	30
1.705 – 30.0	30	29.54	30

FOR FREQUENCY ABOVE 30MHz

FREQUENCY (MHz)	FIELD STRENGTH (dBuV/m)		MEASUREMENT DISTANCE (meters)
	uV/m	dBuV/m	
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

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4.2.2 TEST INSTRUMENTS

For frequency range: 9 kHz ~ 30 MHz

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Agilent	N9038A	MY51210105	July 21, 2014	July 20, 2015
Pre-Amplifier ^(*) EMCI	EMC001340	980142	Jan. 13, 2014	Jan. 12, 2016
Loop Antenna ^(*) Electro-Metrics	EM-6879	264	Dec. 16, 2014	Dec. 15, 2016
RF Cable	NA	LOOPCAB-001 LOOPCAB-002	Jan. 18, 2015	Jan. 17, 2016
Software	ADT_Radiated _V8.7.07	NA	NA	NA
Antenna Tower & Turn Table CT	NA	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. *The calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. The test was performed in 966 Chamber No. G.
 4. The FCC Site Registration No. is 966073.
 5. The CANADA Site Registration No. is IC 7450H-2.
- Tested Date: June 17, 2015

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For frequency range: 30-1000MHz

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Agilent	N9038A	MY50010156	Aug. 11, 2014	Aug. 10, 2015
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-04	Nov. 12, 2014	Nov. 11, 2015
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Feb. 09, 2015	Feb. 08, 2016
RF Cable	8D-FB	CHHCAB-001-1 CHHCAB-001-2	Oct. 05, 2014	Oct. 04, 2015
	RF-141	CHHCAB-004	Oct. 05, 2014	Oct. 04, 2015
Software	ADT_Radiated _V8.7.07	NA	NA	NA
Antenna Tower & Turn Table CT	NA	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. H.
3. The FCC Site Registration No. is 797305.
4. The CANADA Site Registration No. is IC 7450H-3.
5. Tested Date: June 17, 2015

4.2.3 TEST PROCEDURES

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter 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. The height of antenna is 1 meter above the ground.
- c. Both open and close axes of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE: 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200Hz at frequency below 150kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency 150kHz~ 30MHz.

For Radiated emission 30~1000MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter 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 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.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

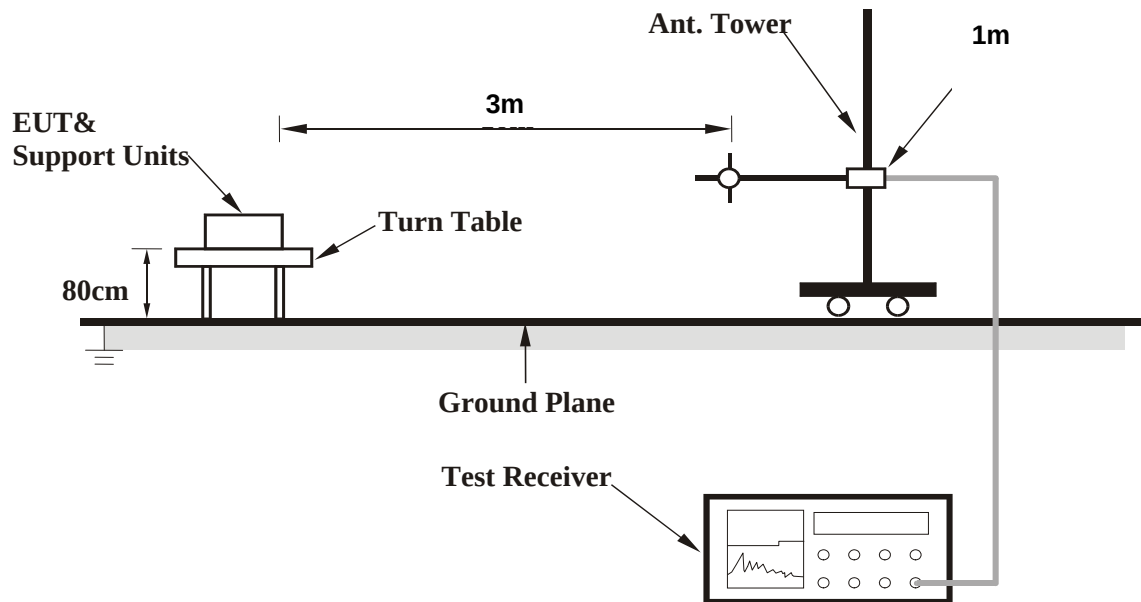
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency 30MHz ~ 1GHz.

4.2.4 DEVIATION FROM TEST STANDARD

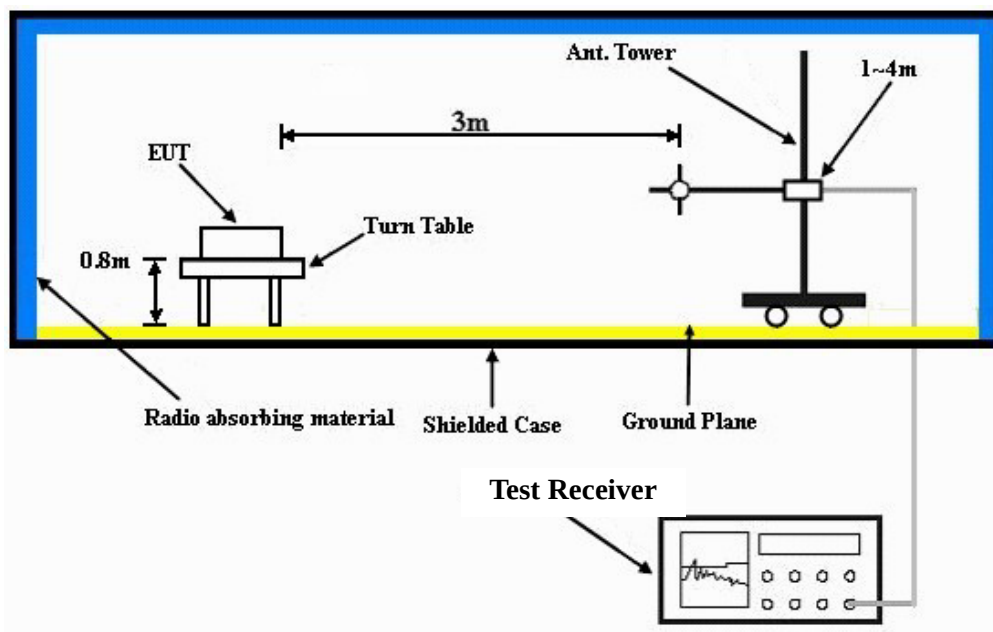
No deviation

4.2.5 TEST SETUP

< Frequency range: 9 kHz ~ 30 MHz >



< Frequency range: 30-1000MHz >



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.



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4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6



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4.2.7 TEST RESULTS

CHANNEL	Channel 1	DETECTOR FUNCTION	Quasi-Peak
FREQUENCY RANGE	9 kHz ~ 30 MHz		

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA OPEN AT 3M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	0.03	53.6 QP	118.1	-64.5	1.00 V	346	24.89	28.71
2	0.06	44.2 QP	112.0	-67.8	1.00 V	149	22.04	22.16
3	0.56	38.5 QP	72.6	-34.1	1.00 V	119	34.47	4.03
4	13.34	40.4 QP	69.5	-29.1	1.00 V	241	43.87	-3.47
5	23.13	43.1 QP	69.5	-26.4	1.00 V	20	46.94	-3.84
6	24.51	45.7 QP	69.5	-23.8	1.00 V	60	49.23	-3.53
7	26.48	49.3 QP	69.5	-20.2	1.00 V	304	52.43	-3.13
ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA CLOSE AT 3M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	0.03	54.6 QP	118.1	-63.5	1.00 V	238	25.89	28.71
2	0.06	44.2 QP	112.0	-67.8	1.00 V	26	22.04	22.16
3	0.56	35.8 QP	72.6	-36.8	1.00 V	225	31.77	4.03
4	13.34	36.4 QP	69.5	-33.2	1.00 V	265	39.83	-3.47
5	16.21	29.5 QP	69.5	-40.1	1.00 V	66	33.42	-3.94
6	23.13	41.3 QP	69.5	-28.2	1.00 V	77	45.14	-3.84
7	24.93	46.6 QP	69.5	-22.9	1.00 V	98	50.04	-3.44

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

24000/562.5kHz	=42.6 uV/m	30m
	=32.6 dBuV/m	30m
	=32.6 dBuV/m+20log(30/3)^2	3m
	=72.6 dBuV/m	3m



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CHANNEL	Channel 1	DETECTOR FUNCTION	Quasi-Peak
FREQUENCY RANGE	30-1000MHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	86.32	19.8 QP	40.0	-20.2	1.00 H	103	38.63	-18.81
2	183.07	20.2 QP	43.5	-23.3	1.00 H	309	34.99	-14.82
3	238.02	17.8 QP	46.0	-28.2	1.20 H	46	31.98	-14.14
4	586.77	20.3 QP	46.0	-25.7	1.70 H	154	25.41	-5.15
5	610.60	21.2 QP	46.0	-24.9	1.60 H	133	25.58	-4.43
6	822.78	25.9 QP	46.0	-20.1	2.20 H	209	26.88	-1.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	51.12	24.2 QP	40.0	-15.8	1.10 V	5	37.57	-13.33
2	66.61	24.7 QP	40.0	-15.3	1.00 V	12	39.57	-14.84
3	140.02	22.7 QP	43.5	-20.8	1.90 V	12	36.02	-13.36
4	193.06	17.6 QP	43.5	-25.9	1.60 V	51	33.38	-15.81
5	357.71	15.6 QP	46.0	-30.4	1.10 V	9	26.15	-10.53
6	836.98	31.2 QP	46.0	-14.8	1.60 V	82	32.02	-0.80

REMARKS:

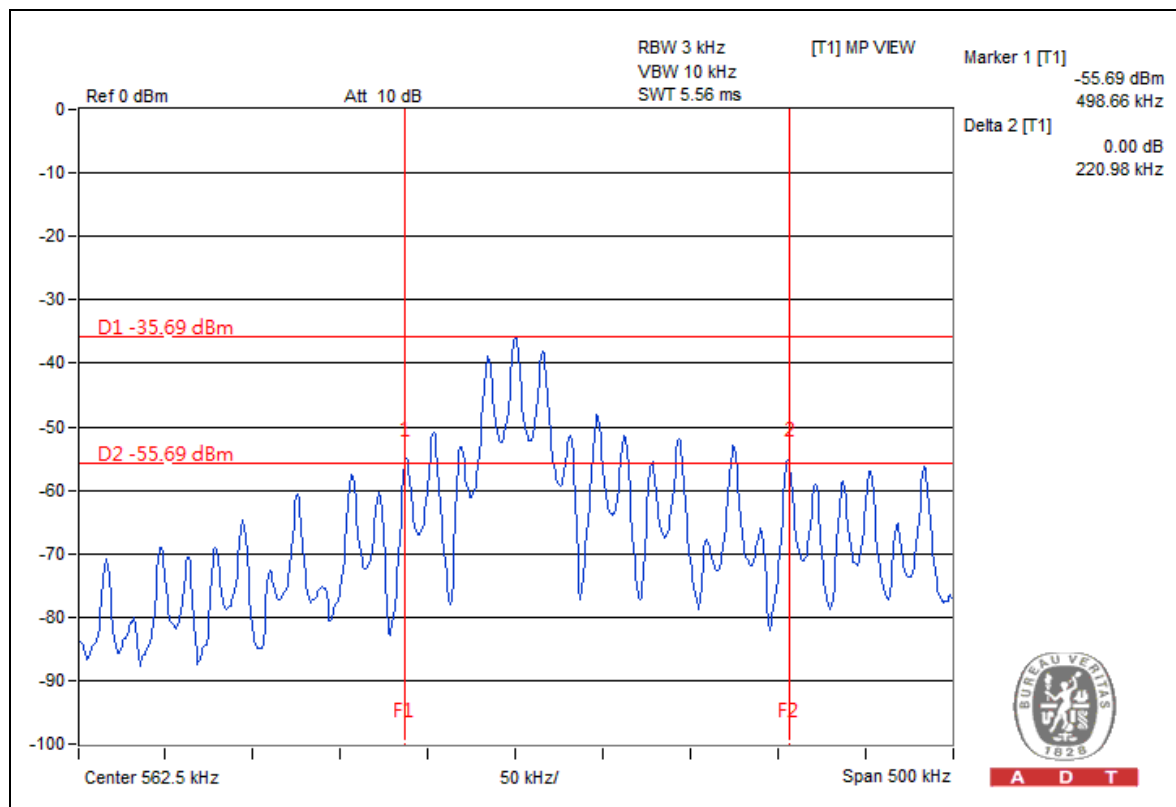
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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4.2.8 TEST RESULTS (SPECTRUM BANDWIDTH)

BANDWIDTH: 220.98 kHz





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5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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6. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.



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7. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

--- END ---