



FCC TEST REPORT

REPORT NO.: RF970401L06B
MODEL NO.: GV-590
RECEIVED: Apr. 01, 2008
TESTED: Jul. 04 ~ Jul. 05, 2008
ISSUED: Jul. 10, 2008

APPLICANT: Globalsat Technology Corporation.

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ISSUED BY: Advance Data Technology Corporation

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TEST LOCATION: No. 19, Hwa Ya 2nd Rd., Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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1. CERTIFICATION

PRODUCT: Car Navigator

MODEL NO.: GV-590

BRAND: GlobalSat

APPLICANT: Globalsat Technology Corporation.

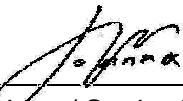
TESTED: Jul. 04 ~ Jul. 05, 2008

TEST SAMPLE: ENGINEERING SAMPLE

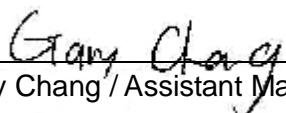
STANDARDS: FCC Part 15, Subpart C (Section 15.247)

ANSI C63.4-2003

The above equipment (Model: GV-590) has been tested by **Advance Data Technology Corporation**, 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 :  , **DATE :** Jul. 10, 2008
Joanna Wang / Senior Specialist

**TECHNICAL
ACCEPTANCE** :  , **DATE :** Jul. 10, 2008
Responsible for RF Long Chen / Senior Engineer

APPROVED BY :  , **DATE :** Jul. 10, 2008
Gary Chang / Assistant Manager



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -13.24dB at 0.448MHz
15.247(d)	Transmitter Radiated Emissions Spec.: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -1.15dB at 80.450MHz

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:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.34 dB
	200MHz ~1000MHz	3.35 dB

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



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Car Navigator
MODEL NO.	GV-590
FCC ID	RIDGV-580
POWER SUPPLY	3.7Vdc from battery 5.0Vdc from car charger or AC Adapter
MODULATION TYPE	Bluetooth: GFSK GPS: C/A code
MODULATION TECHNOLOGY	FHSS
TRANSFER RATE	Bluetooth: 723.2Kbps GPS: 50 bps
FREQUENCY RANGE	Bluetooth: 2402~2480 MHz GPS: 1575.42 MHz
NUMBER OF CHANNEL	Bluetooth: 79 GPS: 1
CHANNEL SPACING	1MHz
OUTPUT POWER	0.975mW
ANTENNA TYPE	PIFA antenna with 0.1dBi gain
DATA CABLE	NA
I/O PORTS	NA
ACCESSORY DEVICES	Adapter, car charger, battery, AV out cable (1.5m), Remote control

NOTE:

1. This report is issued as a supplementary report to the original ADT report no.: RF970401L06.
2. This report is prepared for class II permissive change. Differences compared with the original report are listed as below. Therefore, test items for conducted and radiated emission below 1GHz had been re-tested.

ITEM	ORIGINAL DESCRIPTION	CLASS II CHANGE DESCRIPTION
1	With cradle and DTV function	Without cradle and DTV function

3. Bluetooth technology is used in this EUT.



4. The EUT was powered by the following power adapter, car charger and battery:

ADAPTER	
BRAND	PHIHONG
MODEL	PSC11R-050
INPUT POWER	100~240Vac, 0.3A, 50-60Hz
OUTPUT POWER	5Vdc, 2A
POWER LINE	1.8m non-shielded cable with one core

CAR CHARGER	
MODEL	IC-DX3-GPSR
INPUT POWER	12~24Vdc, 1.2A
OUTPUT POWER	5Vdc, 2A
POWER LINE	0.8m non-shielded cable with one core

NOTE: After pre-test, the EUT powered from 24Vdc car charger was the worst case and the test data were present in this report.

BATTERY:	
BRAND	Welldone
MODEL	BKE505280
RATING	3.7Vdc, 2200mA

5. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



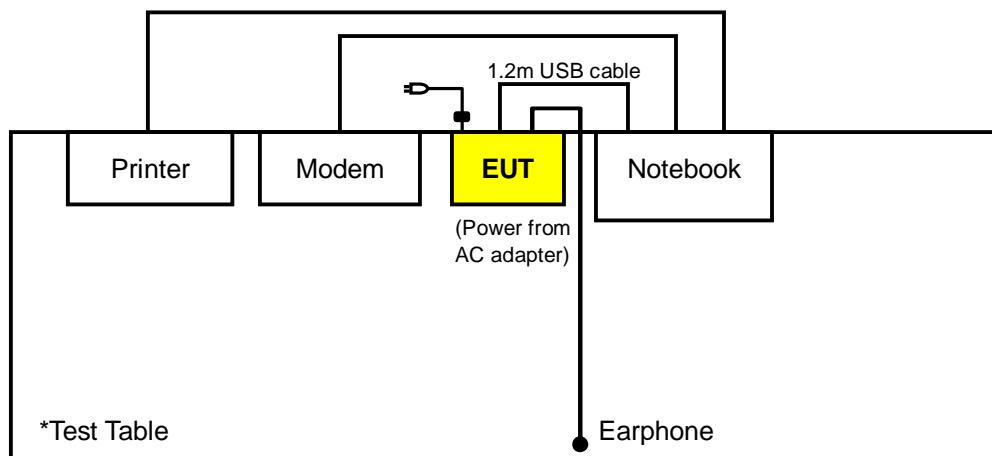
3.2 DESCRIPTION OF TEST MODES

79 channels are provided to this EUT:

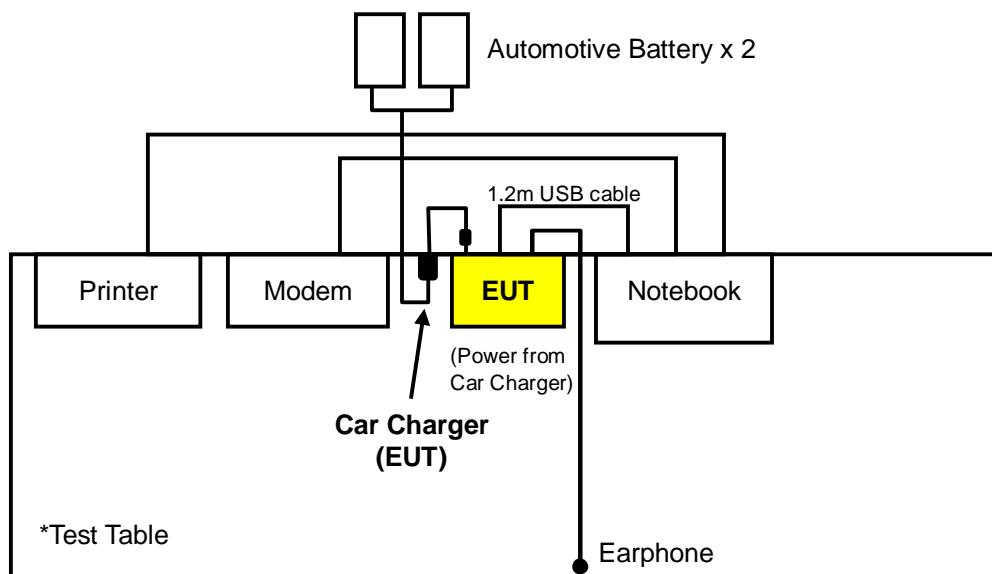
CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

TEST MODE A



TEST MODE B





3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO		DESCRIPTION
	RE<1G	PLC	
A	√	√	Power from AC Adapter
B	√	-	Power from Car Charger

Where **RE<1G**: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

NOTE: “-“ means no effect.

RADIATED EMISSION TEST (BELOW 1 GHz):

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

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE	AXIS
A	0 to 78	0	FHSS	GFSK	DH5	Z
B	0 to 78	0	FHSS	GFSK	DH5	Z

POWER LINE CONDUCTED EMISSION TEST:

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

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
A	0 to 78	0	FHSS	GFSK	DH5



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 (15.247)

ANSI C63.4-2003

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

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP05L	12130898320	E2K24CLNS
2	PRINTER	EPSON	LQ-300+	DCGY047265	FCC DoC Approved
3	MODEM	ACEEX	1414V/3	0401008269	IFAXDM1414
4	EARPHONE	PHILIPS	SBC HL 125	NA	NA
5	AUTOMOTIVE BATTERY	YUASA	36B20R	NA	NA
6	AUTOMOTIVE BATTERY	YUASA	36B20R	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	1.2m shielded USB cable.
2	1.8m braid shielded wire, DB25 connector, w/o core.
3	1.2m braid shielded wire, DB25 & DB9 connector, w/o core.
4	2.0m non-shielded cable.
5	NA
6	NA

NOTE:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item 5~6 were only for Test Mode B.
3. Item 5~6 were under test table during test.



4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB_uV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESI7	100033	Jun. 29, 2009
Spectrum Analyzer Agilent	FSP	100041	Apr. 21, 2009
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	May, 01, 2009
HORN Antenna SCHWARZBECK	9120D	9120D-209	Jun. 23, 2009
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Dec. 24, 2008
Preamplifier Agilent	8447D	2944A10633	Oct. 28, 2008
Preamplifier Agilent	8449B	3008A01964	Oct. 23, 2008
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	283402/4	Dec. 06, 2008
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	251644/4	Dec. 06, 2008
Software ADT.	ADT_Radiated_V7.6	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA
Turn Table ADT.	TT100.	TT93021703	NA
Turn Table Controller ADT.	SC100.	SC93021703	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 HwaYa Chamber 3.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 988962.
5. The IC Site Registration No. is IC3789B-3.



4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

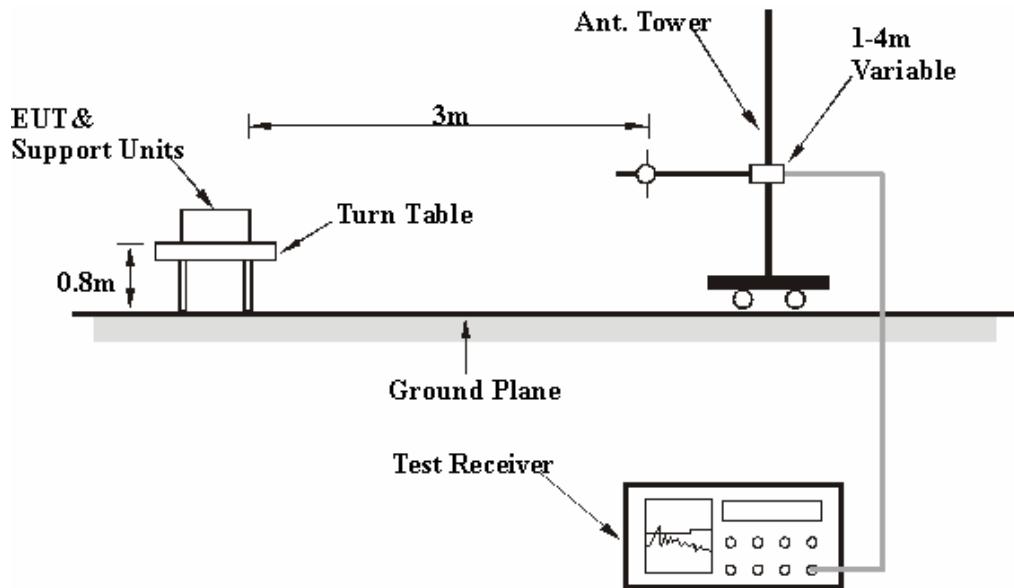
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

4.1.5 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT OPERATING CONDITIONS

- Connected EUT with notebook system via a USB cable and placed on a testing table.
- The notebook system ran a test program (provided by manufacturer) to enable EUT under transmitting condition continuously at specific channel frequency.
- The necessary accessories enable the system in full functions.



4.1.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA : GFSK MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 0	FREQUENCY RANGE		Below 1000MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION		Quasi-Peak
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1009hPa	TEST MODE		A
TESTED BY	Match Tsui			

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	80.45	38.85 QP	40.00	-1.15	1.25 H	244	28.37	10.48
2	99.89	39.41 QP	43.50	-4.09	2.00 H	214	29.23	10.18
3	146.56	35.95 QP	43.50	-7.55	2.00 H	196	21.95	14.00
4	607.35	41.02 QP	46.00	-4.98	1.25 H	196	18.40	22.62
5	652.07	42.04 QP	46.00	-3.96	1.00 H	79	18.42	23.62
6	663.74	41.56 QP	46.00	-4.44	1.00 H	79	17.80	23.76
7	834.84	40.81 QP	46.00	-5.19	2.00 H	214	14.18	26.63

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	53.23	31.27 QP	40.00	-8.73	1.00 V	10	16.66	14.61
2	80.45	36.86 QP	40.00	-3.14	2.00 V	145	26.39	10.48
3	99.89	36.92 QP	43.50	-6.58	1.00 V	10	26.74	10.18
4	132.95	36.81 QP	43.50	-6.69	1.25 V	343	23.45	13.36
5	599.58	39.35 QP	46.00	-6.65	1.00 V	202	16.91	22.45
6	652.07	38.96 QP	46.00	-7.04	2.00 V	178	15.35	23.62
7	665.68	43.45 QP	46.00	-2.55	1.00 V	331	19.67	23.78
8	799.84	39.06 QP	46.00	-6.94	2.00 V	160	13.17	25.88
9	834.84	40.20 QP	46.00	-5.80	1.00 V	298	13.57	26.63

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.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 0	FREQUENCY RANGE		Below 1000MHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION		Quasi-Peak
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1009hPa	TEST MODE		B
TESTED BY	Match Tsui			

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	80.45	38.66 QP	40.00	-1.34	1.50 H	100	28.18	10.48
2	117.39	36.31 QP	43.50	-7.19	1.50 H	223	23.99	12.32
3	136.84	35.28 QP	43.50	-8.22	2.00 H	22	21.71	13.57
4	204.89	32.45 QP	43.50	-11.05	1.50 H	100	20.97	11.48
5	366.26	33.09 QP	46.00	-12.91	1.00 H	49	16.24	16.85
6	585.97	32.98 QP	46.00	-13.02	1.25 H	190	10.87	22.12
7	597.63	33.88 QP	46.00	-12.12	1.25 H	187	11.47	22.40
8	665.68	39.29 QP	46.00	-6.71	1.50 H	316	15.51	23.78
9	799.84	35.53 QP	46.00	-10.47	1.00 H	13	9.65	25.88

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	43.51	34.02 QP	40.00	-5.98	1.00 V	10	19.71	14.32
2	80.45	38.42 QP	40.00	-1.58	1.00 V	10	27.94	10.48
3	117.39	37.27 QP	43.50	-6.23	1.00 V	10	24.95	12.32
4	146.56	37.15 QP	43.50	-6.35	2.00 V	118	23.15	14.00
5	595.69	32.23 QP	46.00	-13.77	1.00 V	310	9.88	22.35
6	665.68	34.56 QP	46.00	-11.44	1.25 V	334	10.78	23.78

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.



4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 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.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Nov. 21, 2008
RF signal cable Woken	5D-FB	Cable-HYC01-01	Jan. 03, 2009
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Jun. 12, 2009
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Sep. 11, 2008
Software ADT	ADT_Cond_V3	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 HwaYa Shielded Room 1.
3. The VCCI Site Registration No. is C-2040.



4.2.3 TEST PROCEDURES

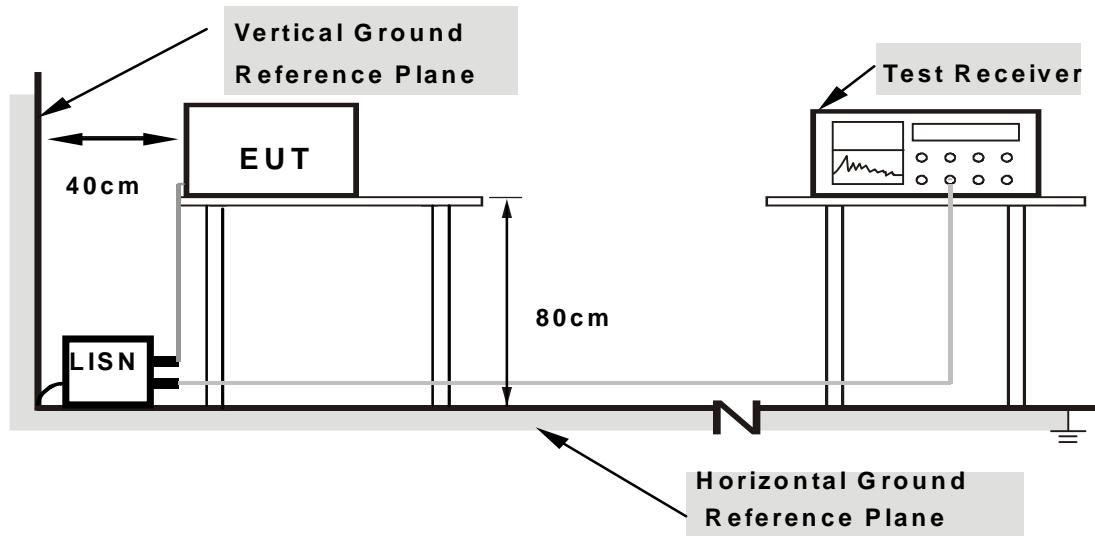
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling 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) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



Note:

1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

4.2.7 TEST RESULTS

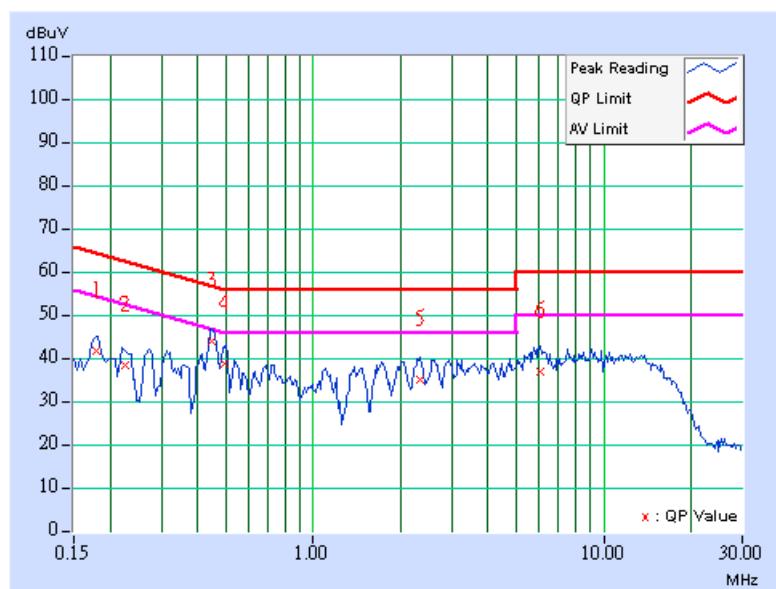
CONDUCTED WORST CASE DATA: GFSK MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 0	PHASE	Line 1
ENVIRONMENTAL CONDITIONS	28deg. C, 66% RH, 1009hPa	6dB BANDWIDTH	9 kHz
INPUT POWER	120Vac, 60 Hz	TEST MODE	A
TESTED BY	Dean Wang		

No	Freq. [MHz]	Corr. (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.180	0.20	41.32	-	41.52	-	64.49	54.49	-22.97	-
2	0.226	0.20	37.97	-	38.17	-	62.61	52.61	-24.44	-
3	0.448	0.20	43.47	-	43.67	-	56.91	46.91	-13.24	-
4	0.494	0.20	38.60	-	38.80	-	56.10	46.10	-17.30	-
5	2.332	0.23	34.77	-	35.00	-	56.00	46.00	-21.00	-
6	6.043	0.44	36.55	-	36.99	-	60.00	50.00	-23.01	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

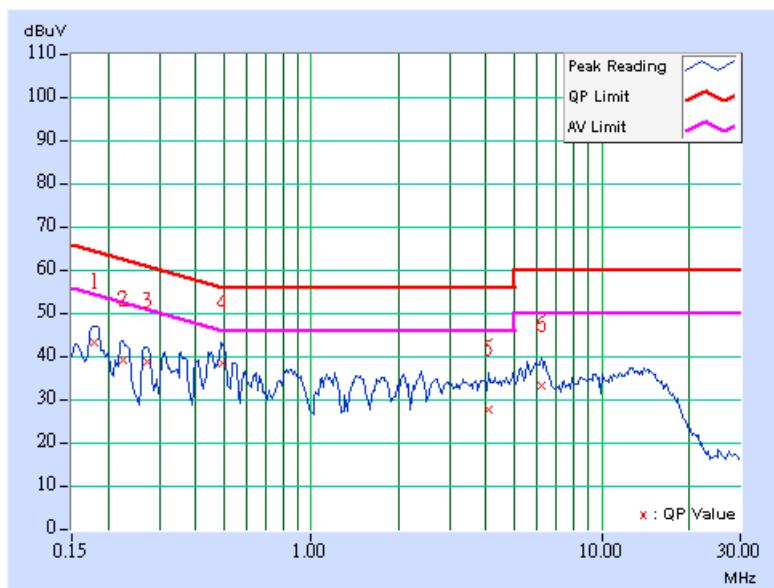


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 0	PHASE	Line 2
ENVIRONMENTAL CONDITIONS	28deg. C, 66% RH, 1009hPa	6dB BANDWIDTH	9 kHz
INPUT POWER	120Vac, 60 Hz	TEST MODE	A
TESTED BY	Dean Wang		

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
	[MHz]	Factor (dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.179	0.20	42.88	-	43.08	-	64.55	54.55	-21.47	-
2	0.227	0.20	38.86	-	39.06	-	62.58	52.58	-23.52	-
3	0.271	0.20	38.40	-	38.60	-	61.08	51.08	-22.48	-
4	0.498	0.20	37.90	-	38.10	-	56.04	46.04	-17.94	-
5	4.102	0.40	27.22	-	27.62	-	56.00	46.00	-28.38	-
6	6.199	0.45	32.71	-	33.16	-	60.00	50.00	-26.84	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.





5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



6. INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC, UL, A2LA
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	TAF, BSMI, NCC
Netherlands	Telefication
Singapore	GOST-ASIA(MOU)
Russia	CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:
www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180
Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343
Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab:

Tel: 886-3-3183232
Fax: 886-3-3185050

Web Site: www.adt.com.tw

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



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

No any modifications are made to the EUT by the lab during the test.

---END---