FCC TEST REPORT

(PART 22)

REPORT NO.:	RF120823C19A
MODEL NO.:	GTR-129X (X=A~Z or blank) (refer to item 3.1 for more details)
FCC ID:	RID-GTR129S
RECEIVED:	Aug. 23, 2012
TESTED:	Oct. 18 ~ Oct. 25, 2012
ISSUED:	Nov. 30, 2012

APPLICANT:	GlobalSat WorldCom Corporation
ADDRESS:	16F., No.186, Jian 1st Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)

ISSUED BY:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
LAB ADDRESS:	No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.
TEST LOCATION:	No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

This report should not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.

Testing Laboratory
2021

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF120823C19A	Original release	Nov. 30, 2012

1 CERTIFICATION

PRODUCT:	Motorcycle/ Vehicle Tracker
MODEL:	GTR-129X (X=A~Z or blank) (refer to item 3.1 for more details)
BRAND:	GlobalSat
APPLICANT:	GlobalSat WorldCom Corporation
TESTED:	Oct. 18 ~ Oct. 25, 2012
TEST SAMPLE:	ENGINEERING SAMPLE
STANDARDS:	**FCC PART 22, Subpart H**

The above equipment (model: GTR-129) 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 : Pettie Chen / Senior Specialist , **DATE :** Nov. 30, 2012

APPROVED BY : Ken Liu / Manager , **DATE :** Nov. 30, 2012

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 22 & Part 2			
STANDARD SECTION	**TEST TYPE**	**RESULT**	**REMARK**
2.1046 22.913 (a)	Effective radiated power	PASS	Meet the requirement of limit.
2.1055 22.355	Frequency Stability	PASS	Meet the requirement of limit.
2.1049	Occupied Bandwidth	PASS	Meet the requirement of limit.
22.917	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 22.917	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 22.917	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -5.10dB at 2472.6MHz.

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	150kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	2.93 dB
	200MHz ~1000MHz	2.95 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

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

2.2 TEST SITE AND INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCI	100744	Apr. 19, 2012	Apr. 18, 2013
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Jan. 30, 2012	Jan. 29, 2013
BILOG Antenna SCHWARZBECK	VULB9168	9168-156	Apr. 03, 2012	Apr. 02, 2013
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-563	Sep. 12, 2012	Sep. 11, 2013
HORN Antenna SCHWARZBECK	BBHA 9170	148	Jul. 11, 2012	Jul. 10, 2013
Loop Antenna	HFH2-Z2	100070	Jan. 31, 2012	Jan. 30, 2014
Preamplifier Agilent	8449B	3008A01911	Oct. 25, 2012	Oct. 24, 2013
Preamplifier Agilent	8447D	2944A10638	Oct. 25, 2012	Oct. 24, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	295013/4 283403/4	Aug. 28, 2012	Aug. 27, 2013
RF signal cable Worken	8D-FB	Cable-HYCH9-01	Aug. 11, 2012	Aug. 10, 2013
Software	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower &Turn Table Controller EMCO	2090	NA	NA	NA
Mini-Circuits Power Splitter	ZN2PD-9G	NA	Jul. 18, 2012	Jul. 17, 2013
JFW 20dB attenuation	50HF-020-SMA	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 loop antenna is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.

3. The test was performed in HwaYa Chamber 9.

4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.

5. The FCC Site Registration No. is 460141.

6. The IC Site Registration No. is IC 7450F-4.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Motorcycle/ Vehicle Tracker
MODEL NO.	GTR-129X (X=A~Z or blank) (Refer to Note for more details)
IMEI CODE	012896000746864 861785005254820
POWER SUPPLY	3.7Vdc (battery) 9 ~36Vdc, 1A
MODULATION TYPE	GMSK
FREQUENCY RANGE	824.2MHz ~ 848.8MHz
MAX. ERP POWER	1954.339mW (30.91dBm)
MULTI-SLOTS CLASS	12
ANTENNA TYPE	Built-in PIFA antenna with 1 dBi gain
I/O PORTS	Refer to users' manual
DATA CABLE	Hardwire cable (0.9m)
ACCESSORY DEVICES	Battery

NOTE:

1. All models are listed as below.

Brand	Model	Difference
GlobalSat	GTR-129X (X=A~Z or blank)	With internal battery Operating temperature: -10~60℃
	GTR-128X (X=A~Z or blank)	Without internal battery Operating temperature: -30~70℃

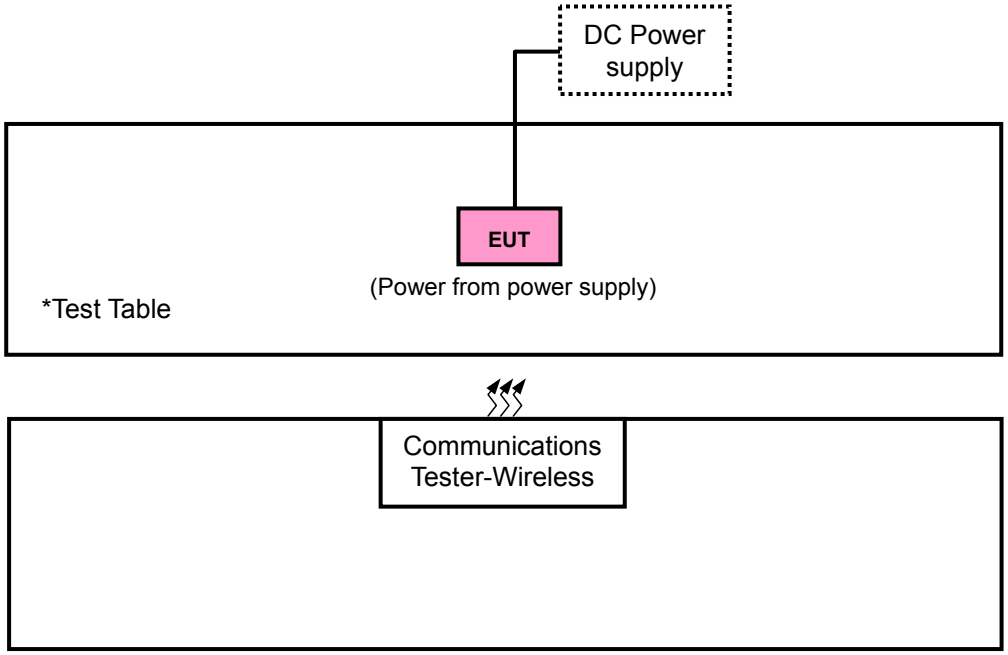
*GTR-129 was chosen for the final test.

2. The EUT uses following battery.

Brand	Li-Polymer
Model	H402437
Rating	3.7Vdc, 320mAh

3. The module (model no.: Star IV and brand name: SIRF) is collocated in this EUT.
4. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 CONFIGURATION OF SYSTEM UNDER TEST



3.3 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	DC Power supply	TOPWARD	TF-6603A	725942	NA
2	Communications Tester-Wireless	Agilent	E5515C	MY50266653	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	NA

NOTE:

1. All power cords of the above support units are non shielded (1.8m).
2. Item 2 act as a communication partner to transfer data.
3. Item 1 was placed under the testing table.

3.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports The worst case was found when positioned on Z-plane for EUT. Following channel(s) was (were) selected for the final test as listed below:

GPRS MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	128 to 251	128, 189, 251	GPRS
FREQUENCY STABILITY	128 to 251	128	GPRS
OCCUPIED BANDWIDTH	128 to 251	128, 189, 251	GPRS
BAND EDGE	128 to 251	128, 251	GPRS
CONDCUDETED EMISSION	128 to 251	128, 189, 251	GPRS
RADIATED EMISSION BELOW 1 GHz	128 to 251	251	GPRS
RADIATED EMISSION ABOVE 1 GHz	128 to 251	128, 189, 251	GPRS

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	25deg. C, 68%RH	12Vdc	Sun Lin
FREQUENCY STABILITY	25deg. C, 68%RH	12Vdc	Sun Lin
OCCUPIED BANDWIDTH	25deg. C, 68%RH	12Vdc	Sun Lin
BAND EDGE	25deg. C, 68%RH	12Vdc	Sun Lin
CONDCUDETED EMISSION	25deg. C, 68%RH	12Vdc	Sun Lin
RADIATED EMISSION	25deg. C, 68%RH	12Vdc	Sun Lin

3.5 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.6 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 47 CFR Part 2

FCC 47 CFR Part 22

ANSI/TIA/EIA-603-C 2004

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

4 TEST TYPES AND RESULTS

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile / Portable station are limited to 7 watts e.r.p.

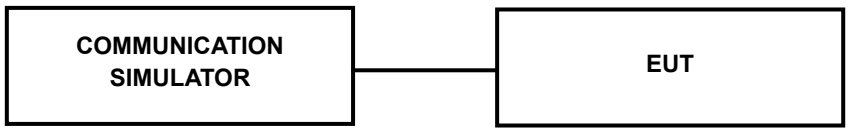
4.1.2 TEST PROCEDURES

CONDUCTED POWER MEASUREMENT:

The EUT was set up for the maximum power with GPRS link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 TEST SETUP

CONDUCTED POWER MEASUREMENT:



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

4.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band	GPRS 850		
Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
GPRS 8 (1 Uplink)	31.77	31.94	**32.06**
GPRS 10 (2 Uplink)	31.44	31.64	31.83

ERP POWER (dBm)

GPRS

Channel	Frequency (MHz)	Conduction Power (dBm)	Ant Gain (dBi)	EIRP(dBm)	ERP(dBm)	Output Power (mW)
128	824.2	31.77	1	32.77	30.62	1828.100
189	836.4	31.94	1	32.94	30.79	1901.078
251	848.8	32.06	1	33.06	30.91	1954.339

4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILIITY MEASUREMENT

1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

4.2.2 TEST PROCEDURE

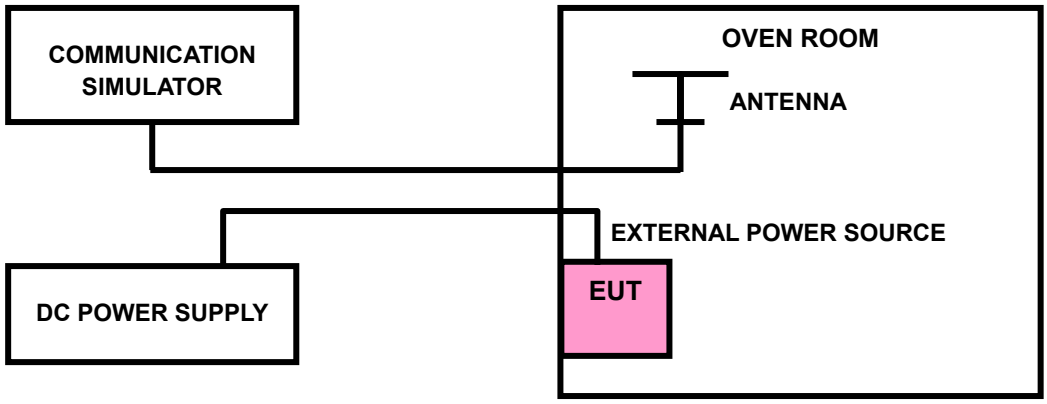
a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.

b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.

c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5℃ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

4.2.3 TEST SETUP



4.2.4 TEST RESULTS

FREQUENCY ERROR VS. VOLTAGE

VOLTAGE (Volts)	FREQUENCY ERROR (ppm)	LIMIT (ppm)
	GPRS	
13.8	-0.019	2.5
10.2	-0.023	2.5

NOTE: The applicant defined the normal working voltage of the battery is from 10.2Vdc to 13.8Vdc.

FREQUENCY ERROR vs. TEMPERATURE.

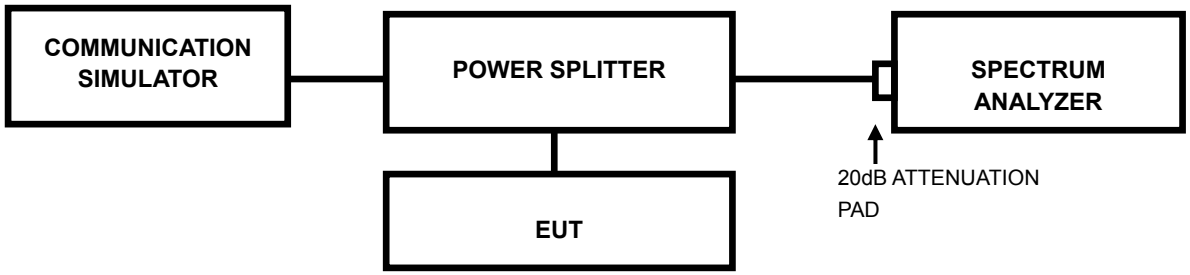
TEMP. (℃)	FREQUENCY ERROR (ppm)	LIMIT (ppm)
	GPRS	
60	-0.037	2.5
50	-0.038	2.5
40	-0.032	2.5
30	-0.017	2.5
20	-0.023	2.5
10	-0.019	2.5
0	-0.029	2.5
-10	-0.035	2.5
-20	-0.047	2.5
-30	-0.054	2.5

4.3 OCCUPIED BANDWIDTH MEASUREMENT

4.3.1 TEST PROCEDURES

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

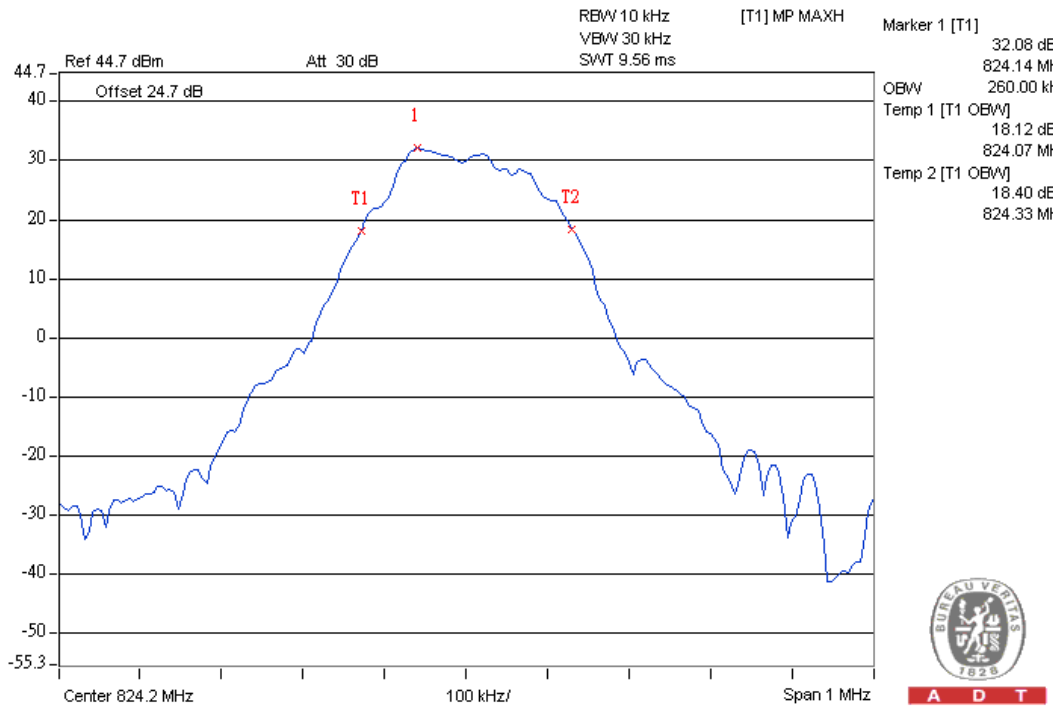
4.3.2 TEST SETUP



4.3.3 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (kHz)
		GPRS
128	824.2	260
189	836.4	260
251	848.8	260

SPECTRUM PLOT OF WORST VALUE
GPRS

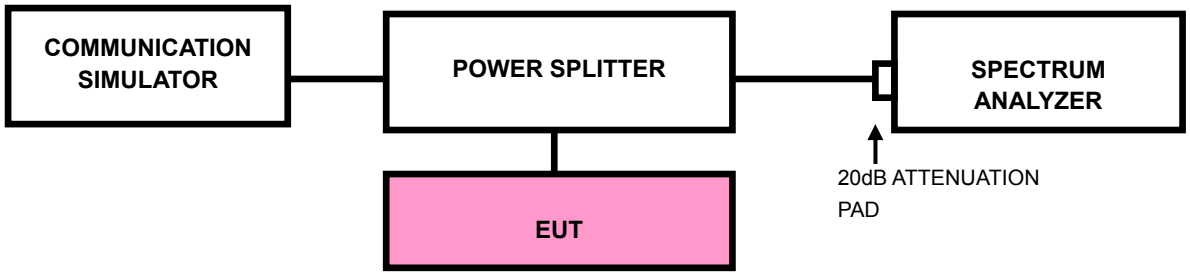


4.4 BAND EDGE MEASUREMENT

4.4.1 LIMITS OF BAND EDGE MEASUREMENT

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4.4.2 TEST SETUP



4.4.3 TEST PROCEDURES

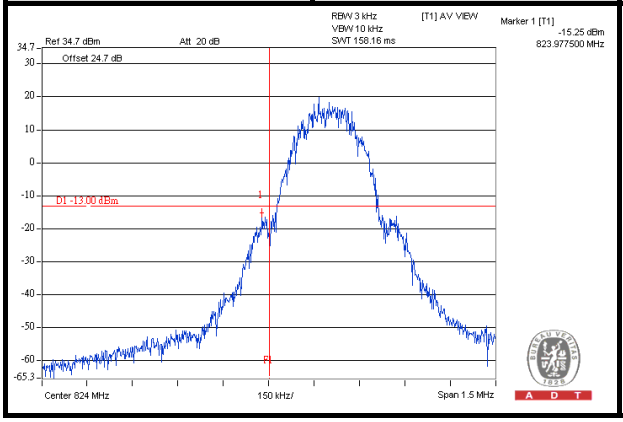
a. All measurements were done at low and high operational frequency range.

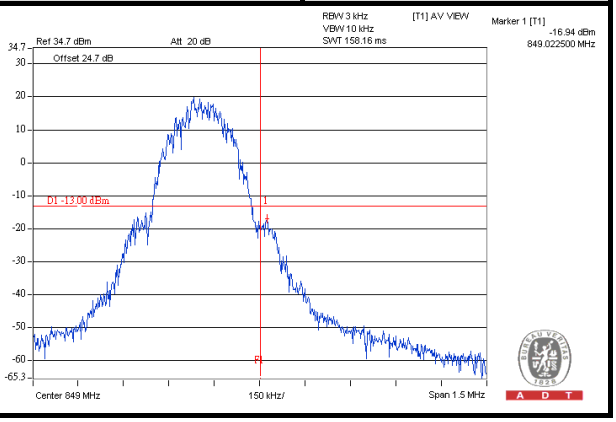
b. The center frequency of spectrum is the band edge frequency and span is 1.5 MHz. RB of the spectrum is 3kHz and VB of the spectrum is 10kHz (GPRS).

c. Record the max trace plot into the test report.

4.4.4 TEST RESULTS

GPRS			
CHANNEL	128	CHANNEL	251





4.5 CONDUCTED SPURIOUS EMISSIONS

4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

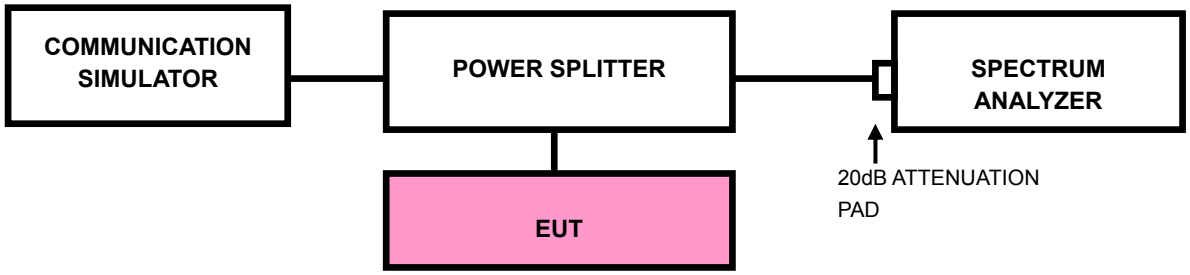
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to –13dBm.

4.5.2 TEST PROCEDURE

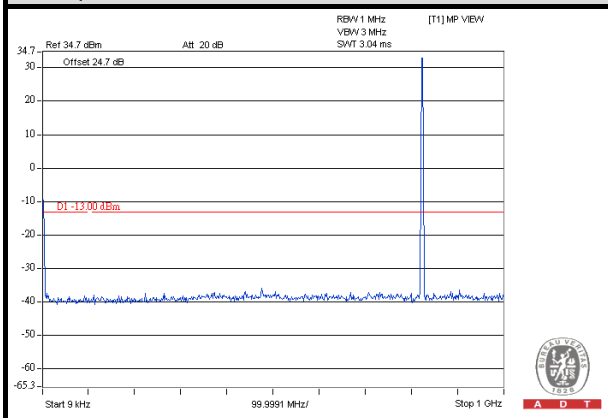
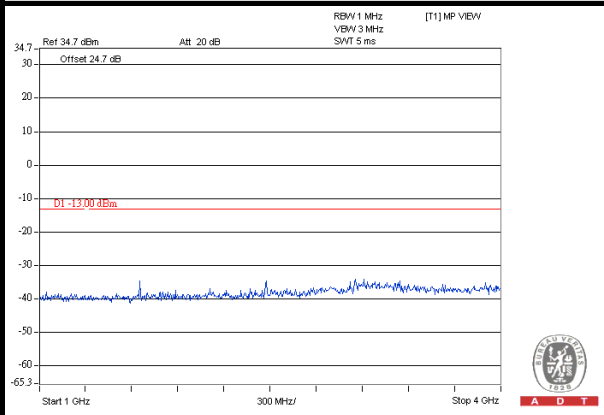
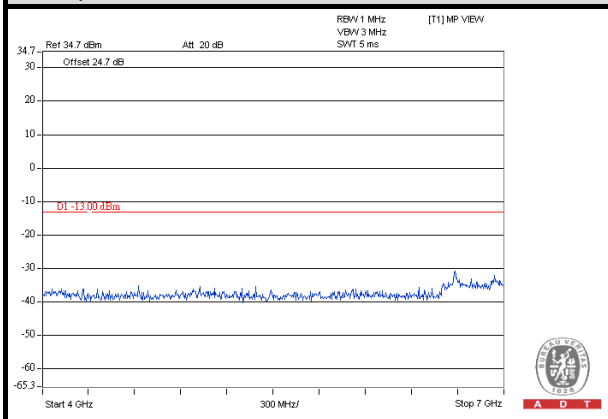
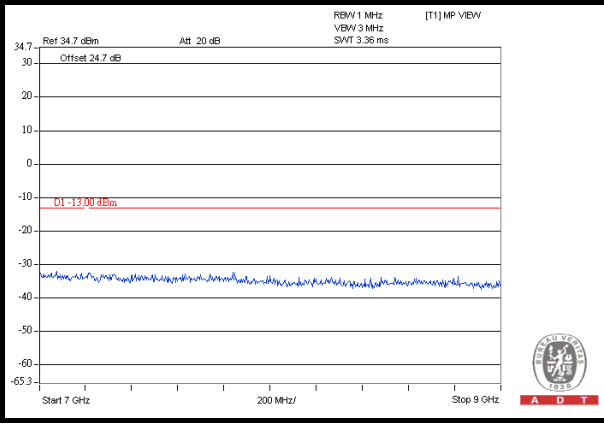
a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.

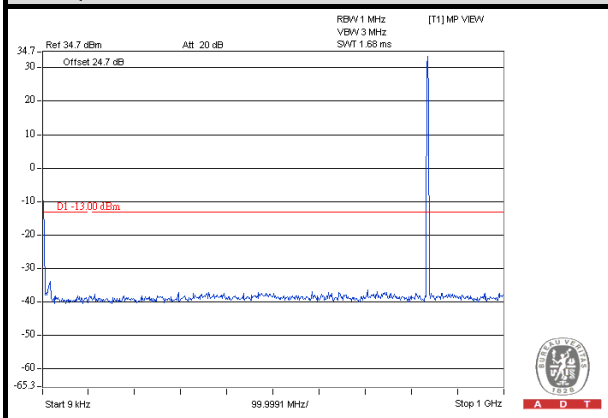
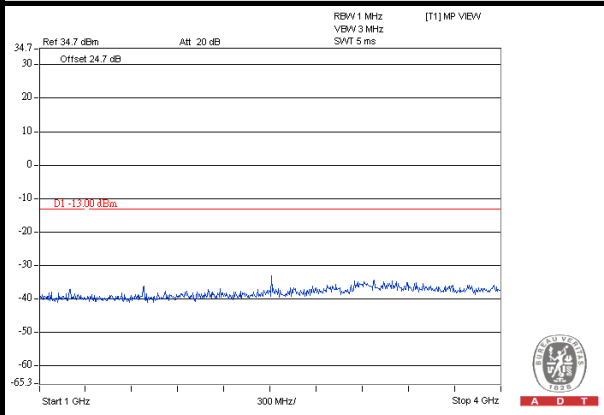
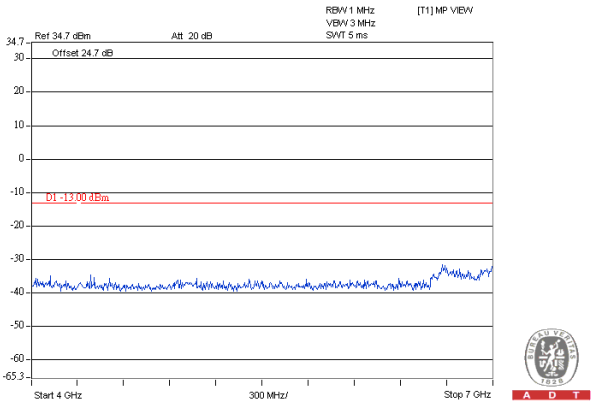
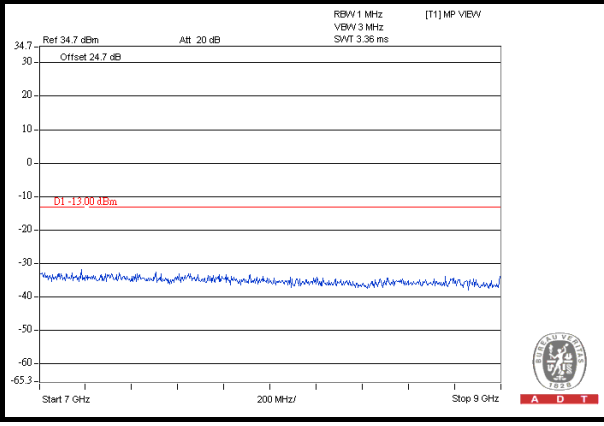
b. Measuring frequency range is from 9 kHz to 9GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

4.5.3 TEST SETUP



4.5.4 TEST RESULTS

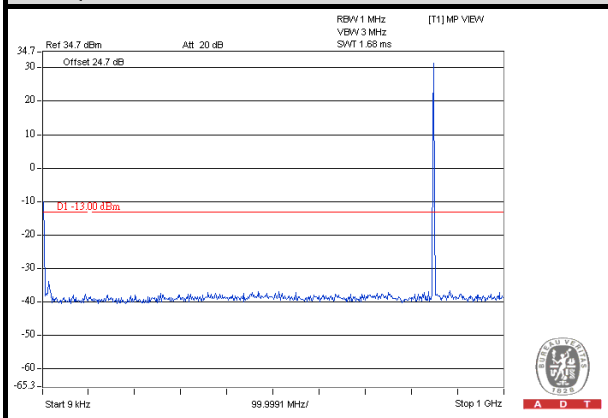
GPRS	
CHANNEL 128	
FREQUENCY RANGE : 9kHz~1GHz	FREQUENCY RANGE : 1GHz~4GHz
	
FREQUENCY RANGE : 4GHz~7GHz	FREQUENCY RANGE :7GHz~9GHz
	

GPRS	
CHANNEL 189	
FREQUENCY RANGE : 9kHz~1GHz	FREQUENCY RANGE : 1GHz~4GHz
	
FREQUENCY RANGE : 4GHz~7GHz	FREQUENCY RANGE :7GHz~9GHz
	

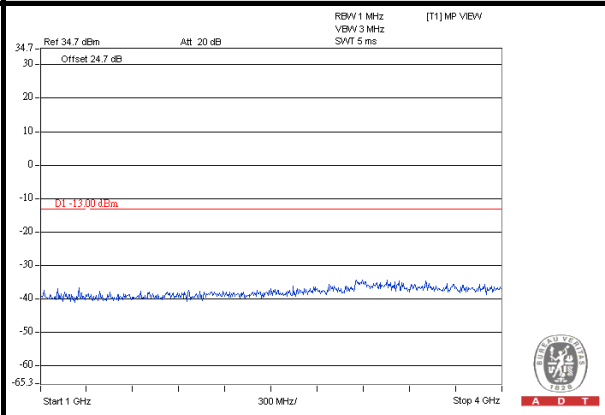
GPRS

CHANNEL 251

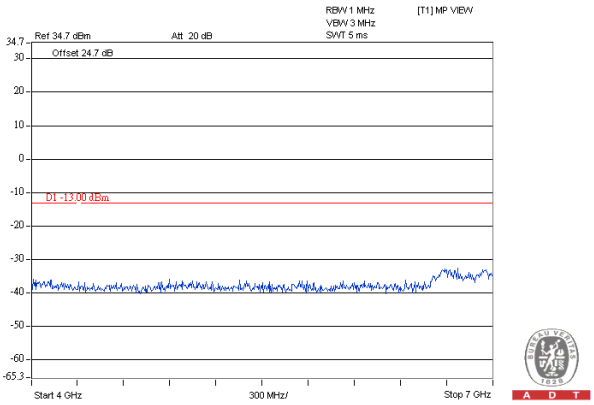
FREQUENCY RANGE : 9kHz~1GHz



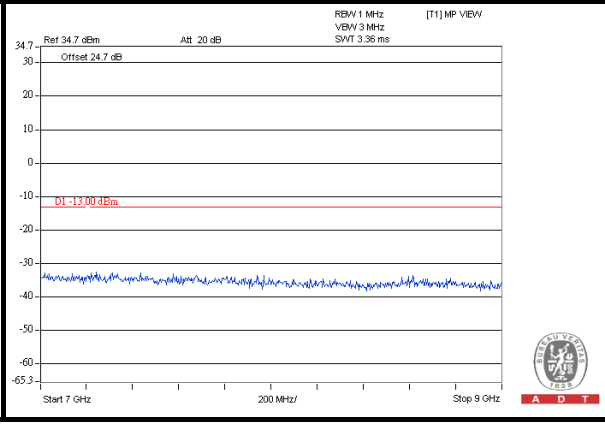
FREQUENCY RANGE : 1GHz~4GHz



FREQUENCY RANGE : 4GHz~7GHz



FREQUENCY RANGE :7GHz~9GHz



4.6 RADIATED EMISSION MEASUREMENT

4.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to –13dBm.

4.6.2 TEST PROCEDURES

a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.

b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. Record the power level of S.G

c. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.

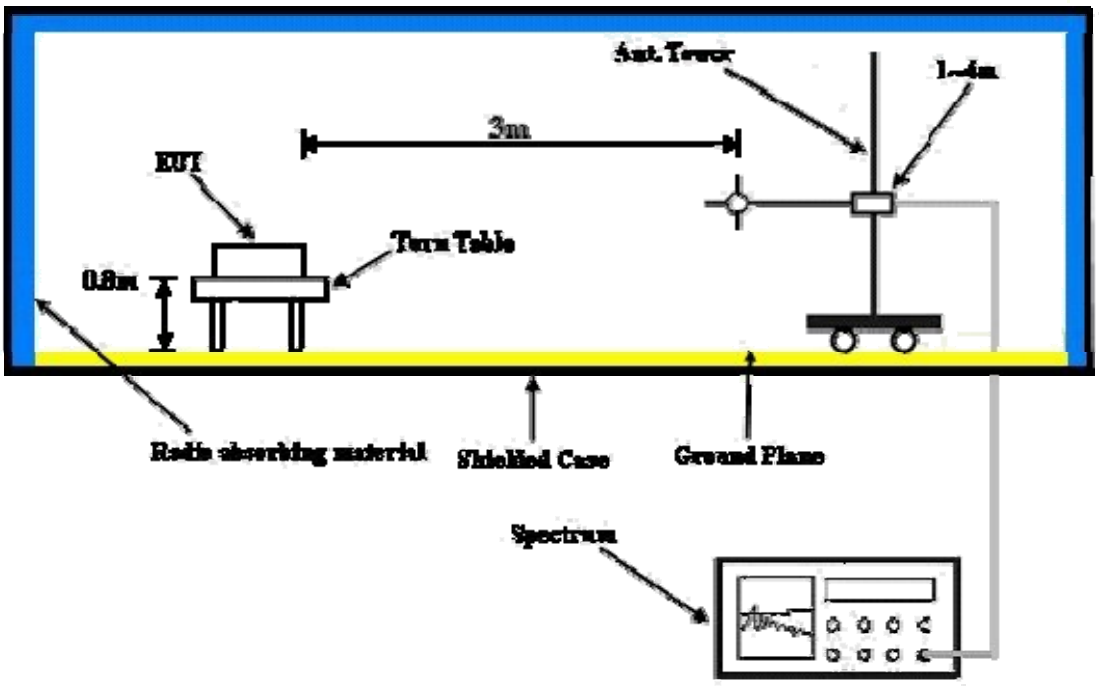
d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15dBi.

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.6.3 DEVIATION FROM TEST STANDARD

No deviation

4.6.4 TEST SETUP



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

4.6.5 TEST RESULTS

Below 1GHz

GPRS:

MODE	TX channel 251	FREQUENCY RANGE	Below 1000MHz
INPUT POWER	12Vdc	ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH
TESTED BY	Sun Lin		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	35.82	-53.11	-36.78	-11.89	-50.82	-13.0	-37.82
2	57.16	-61.39	-54.99	-8.21	-65.35	-13.0	-52.35
3	111.48	-51.81	-58.26	0.00	-60.41	-13.0	-47.41
4	183.26	-61.62	-70.13	3.33	-68.95	-13.0	-55.95
5	224.00	-62.04	-73.53	5.44	-70.24	-13.0	-57.24
6	458.74	-68.39	-73.15	5.05	-70.25	-13.0	-57.25
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	35.82	-52.10	-46.27	-11.89	-60.31	-13.0	-47.31
2	92.08	-56.79	-52.47	1.08	-53.54	-13.0	-40.54
3	111.48	-46.79	-42.46	0.00	-44.61	-13.0	-31.61
4	191.02	-61.95	-60.03	4.33	-57.85	-13.0	-44.85
5	225.94	-63.03	-61.24	5.44	-57.95	-13.0	-44.95
6	528.58	-62.69	-66.00	4.75	-63.40	-13.0	-50.40

REMARKS:

1. ERP(dBm) = S.G Power Value (dBm) + Correction Factor (dB)-2.15.
2. Correction Factor = gain of substitution antenna + cable loss

Above 1GHz

GPRS:

MODE	Channel 128	FREQUENCY RANGE	Above 1000MHz
INPUT POWER	12Vdc	ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH
TESTED BY	Sun Lin		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1648.4	-37.53	-40.49	5.48	-37.16	-13.0	-24.16
2	2472.6	-23.93	-25.42	6.43	-21.14	-13.0	-8.14
3	3296.8	-52.65	-51.95	6.87	-47.23	-13.0	-34.23
4	4121.0	-36.80	-33.72	6.95	-28.92	-13.0	-15.92
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1648.4	-25.94	-31.93	5.48	-28.60	-13.0	-15.60
2	**2472.6**	**-21.64**	**-22.38**	**6.43**	**-18.10**	**-13.0**	**-5.10**
3	3296.8	-37.00	-36.87	6.87	-32.15	-13.0	-19.15
4	4121.0	-35.22	-33.43	6.95	-28.63	-13.0	-15.63

REMARKS:

1. ERP(dBm) = S.G Power Value (dBm) + Correction Factor (dB)-2.15.
2. Correction Factor = gain of substitution antenna + cable loss

MODE	Channel 189	FREQUENCY RANGE	Above 1000MHz
INPUT POWER	12Vdc	ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH
TESTED BY	Sun Lin		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1672.8	-34.56	-37.45	5.54	-34.06	-13.0	-21.06
2	2509.2	-25.65	-27.19	6.45	-22.89	-13.0	-9.89
3	3345.6	-45.80	-45.02	6.94	-40.23	-13.0	-27.23
4	4182.0	-31.20	-28.00	6.90	-23.25	-13.0	-10.25
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1672.8	-26.82	-32.57	5.54	-29.18	-13.0	-16.18
2	2509.2	-24.99	-26.00	6.45	-21.70	-13.0	-8.70
3	3345.6	-35.45	-35.08	6.94	-30.29	-13.0	-17.29
4	4182.0	-34.22	-32.21	6.90	-27.46	-13.0	-14.46

REMARKS:

1. ERP(dBm) = S.G Power Value (dBm) + Correction Factor (dB)-2.15.
2. Correction Factor = gain of substitution antenna + cable loss

MODE	Channel 251	FREQUENCY RANGE	Above 1000MHz
INPUT POWER	12Vdc	ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH
TESTED BY	Sun Lin		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1697.6	-39.20	-42.01	5.59	-38.57	-13.0	-25.57
2	2546.4	-22.10	-23.66	6.44	-19.37	-13.0	-6.37
3	3395.2	-38.90	-38.04	7.02	-33.17	-13.0	-20.17
4	4244.0	-36.50	-33.18	6.86	-28.47	-13.0	-15.47
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1697.6	-26.60	-32.09	5.59	-28.65	-13.0	-15.65
2	2546.4	-22.50	-23.53	6.44	-19.24	-13.0	-6.24
3	3395.2	-38.20	-37.58	7.02	-32.71	-13.0	-19.71
4	4244.0	-33.80	-31.57	6.86	-26.86	-13.0	-13.86

REMARKS:

1. ERP(dBm) = S.G Power Value (dBm) + Correction Factor (dB)-2.15.
2. Correction Factor = gain of substitution antenna + cable loss

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

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.

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.

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