

FCC TEST REPORT (PART 22)

REPORT NO.: RF120309C41

MODEL NO.: HILONC-3GPS

FCC ID: VW3HILONC-3GPS

RECEIVED: Mar. 09, 2012

TESTED: Mar. 23 ~ Mar. 24, 2012

ISSUED: Mar. 29, 2012

APPLICANT: Sagemcom SAS

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Cedex France

ISSUED BY: Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

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Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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Report No.: RF120309C41 1 Report Format Version 4.2.0



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF120309C41	Original Release	Mar. 29, 2012



CERTIFICATION

PRODUCT: Qual-Band GSM/GPRS/EDGE Voice and Data Module

MODEL: HILONC-3GPS

BRAND: Sagemcom

APPLICANT: Sagemcom SAS

TESTED: Mar. 23 ~ Mar. 24, 2012

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 22, Subpart H

The above equipment (model: HiLoNC-3GPS) 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.

Ivonne Wu / Senior Specialist

Mar. 29, 2012 PREPARED BY

APPROVED BY



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			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		Meet the requirement of limit. Minimum passing margin is -23.13dB at 30.00MHz.				

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
	30MHz ~ 200MHz	3.34 dB
Radiated emissions	200MHz ~1000MHz	3.35 dB
Radiated emissions	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 Agilent	N9038A	MY51210203	Dec. 22, 2011	Dec. 21, 2012
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 21, 2011	Dec. 20, 2012
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Dec. 20, 2011	Dec. 19, 2012
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Dec. 20, 2011	Dec. 19, 2012
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 20, 2011	Dec. 19, 2012
Preamplifier EMCI	EMC 012645	980115	Dec. 30, 2011	Dec. 29, 2012
Preamplifier EMCI	EMC 330H	980112	Dec. 30, 2011	Dec. 29, 2012
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	295014/4	Aug. 19, 2011	Aug. 18, 2012
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	12738/6	Aug. 19, 2011	Aug. 18, 2012
Software ADT.	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA	NA
Turn Table ADT.	TT100.	TT93021703	NA	NA
Turn Table Controller ADT.	SC100.	SC93021703	NA	NA
Communication Tester R&S	CMU200	104484	Dec. 30, 2011	Dec. 29, 2012
Standard Temperature & Humidity Chamber WIT	MHU-225AU	920842	Jun. 15, 2011	Jun. 14, 2012
Mini-Circuits Power Splitter	ZN2PD-9G	NA	May 25, 2011	May 24, 2012
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 test was performed in HwaYa Chamber 10.
 - 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 460141.
 - 5. The IC Site Registration No. is IC 7450F-4.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

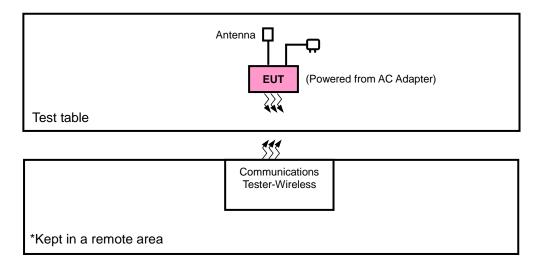
EUT	Qual-Band GSM/GPRS/EDGE Voice and Data Module
MODEL NO.	HiLoNC-3GPS
POWER SUPPLY	3.7Vdc from external power supply (120Vac)
MODULATION TYPE	GMSK, 8PSK
FREQUENCY RANGE	824.2MHz ~ 848.8MHz
MAX. ERP POWER	GPRS: 1.22Watts
WAX. ERF FOWER	EDGE: 0.35Watts
MULTI-SLOTS CLASS	12
ANTENNA TYPE	Dipole antenna with 0.6dBi gain
I/O PORTS	Refer to users' manual
DATA CABLE	NA
ACCESSORY DEVICES	NA

NOTE: 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.

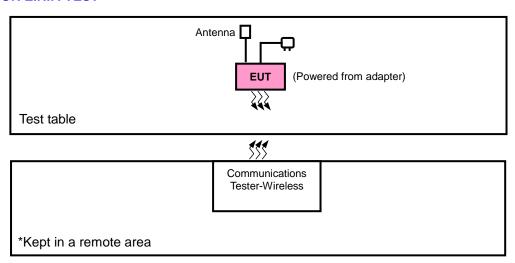


3.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



FOR E.R.P. 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	Adapter	Ktec	KSAS0100500200VU	NA	NA
2	Communications Tester-Wireless	Agilent	E5515C	MY50266628	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	1.5m non-shielded cable without ferrite core
2	NA

NOTE:

- 1. Item 1 was provided by client.
- 2. Item 2 acted as a communication partner to transfer data.



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 X-plane for ERP and X-axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

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

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	25deg. C, 65%RH	120Vac, 60Hz	Kay Wu
FREQUENCY STABILITY	25deg. C, 60%RH	120Vac, 60Hz	Peter Weng
OCCUPIED BANDWIDTH	25deg. C, 60%RH	120Vac, 60Hz	Peter Weng
BAND EDGE	25deg. C, 65%RH	120Vac, 60Hz	Kay Wu
CONDCUDETED EMISSION	25deg. C, 60%RH	120Vac, 60Hz	Peter Weng
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	Kay Wu



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

EIRP / ERP MEASUREMENT:

- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1MHz for GPRS and EDGE mode.
- b. 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.
- c. 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 b. Record the power level of S.G
- d. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.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.

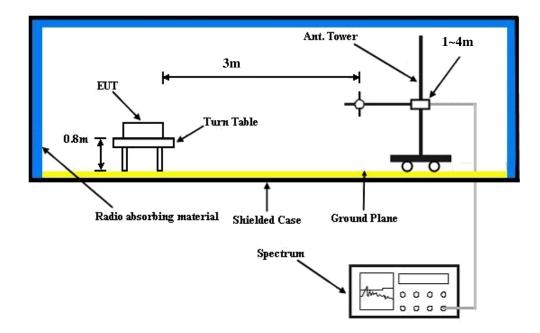
CONDUCTED POWER MEASUREMENT:

The EUT was set up for the maximum power with GPRS & EDGE 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.



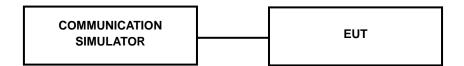
4.1.3 TEST SETUP

EIRP / ERP MEASUREMENT:



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

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
GSM	33.00	32.88	33.02
GPRS 8	33.00	32.87	33.05
GPRS 10	33.29	33.14	33.21
GPRS 12	33.11	32.98	33.06
DTM 9 (GPRS)	32.65	32.67	32.52
DTM 11 (GPRS)	32.63	32.55	32.75
EDGE 8 (MCS9)	27.00	26.98	26.94
EDGE 10 (MCS9)	26.86	26.86	26.86
EDGE 12 (MCS9)	26.72	26.66	26.57
DTM 9 (EDGE)	26.57	26.57	26.55
DTM 11 (EDGE)	26.50	26.55	26.50
EDGE 8 (MCS1)	26.58	26.63	26.27
EDGE 10 (MCS1)	26.12	26.30	26.03
EDGE 11 (MCS1)	25.90	25.98	25.63
EDGE 12 (MCS1)	25.47	25.68	25.46



ERP POWER (dBm)

GPRS 850

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(W)	Polarization (H/V)
	128	824.2	0.41	32.62	30.88	1.22	Н
	189	836.4	0.24	32.52	30.61	1.15	Н
v	251	848.8	-0.40	32.65	30.10	1.02	Н
X	128	824.2	-1.81	32.76	28.80	0.76	V
	189	836.4	-2.26	32.39	27.98	0.63	V
	251	848.8	-1.89	32.54	28.50	0.71	V

EDGE 850

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(W)	Polarization (H/V)
	128	824.2	-5.09	32.62	25.38	0.35	Н
	189	836.4	-5.60	32.52	24.77	0.30	Н
l x	251	848.8	-5.88	32.65	24.62	0.29	Н
^	128	824.2	-7.34	32.76	23.27	0.21	V
	189	836.4	-7.87	32.39	22.37	0.17	V
	251	848.8	-7.69	32.54	22.70	0.19	V



4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

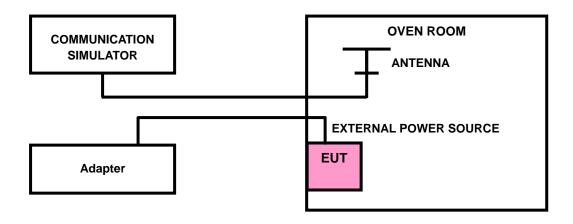
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

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 $\pm 0.5^{\circ}$ C 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

\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	FREQUENCY	LIBAIT (mmm)	
VOLTAGE (Volts)	GPRS	EDGE	LIMIT (ppm)
3.7	-0.05	-0.03	2.5
3.4	-0.03	-0.03	2.5
4.2	-0.04	-0.05	2.5

NOTE: The applicant defined the normal working voltage of the battery is from 3.4Vdc to 4.2Vdc.

FREQUENCY ERROR vs. TEMPERATURE.

TEMP. (℃)	FREQUENCY	LIMIT (ppm)	
TEMP. (C)	GPRS	EDGE	LIMIT (ppm)
-30	0.05	0.04	2.5
-20	-20 -0.02		2.5
-10 -0.01		0.01	2.5
0 -0.03		-0.01	2.5
10	-0.01		2.5
20	0.01	-0.02	2.5
30	0.02	-0.06	2.5
40	0.02	-0.05	2.5
50	-0.05	-0.04	2.5

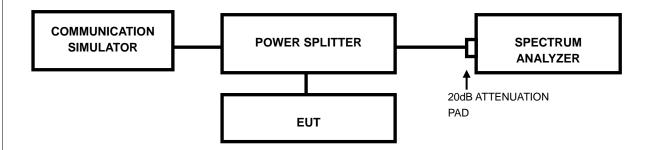


4.3 OCCUPIED BANDWIDTH MEASUREMENT

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.

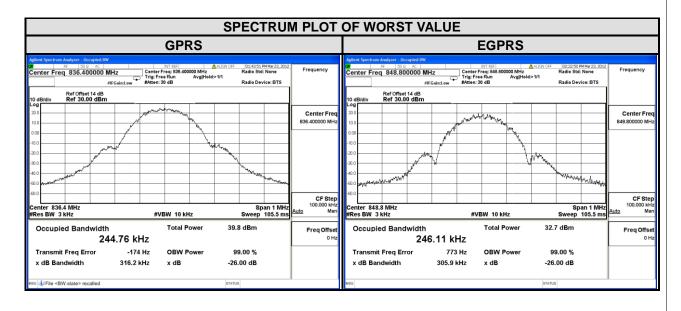
4.3.2 TEST SETUP





4.3.3 TEST RESULTS

CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (kHz)				
CHANNEL	(MHz)	GPRS	EDGE			
128	824.2	243.57	244.31			
189	836.4	244.76	244.34			
251	848.8	241.61	246.11			



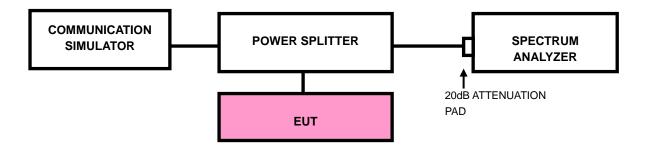


4.4 BAND EDGE MEASUREMENT

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

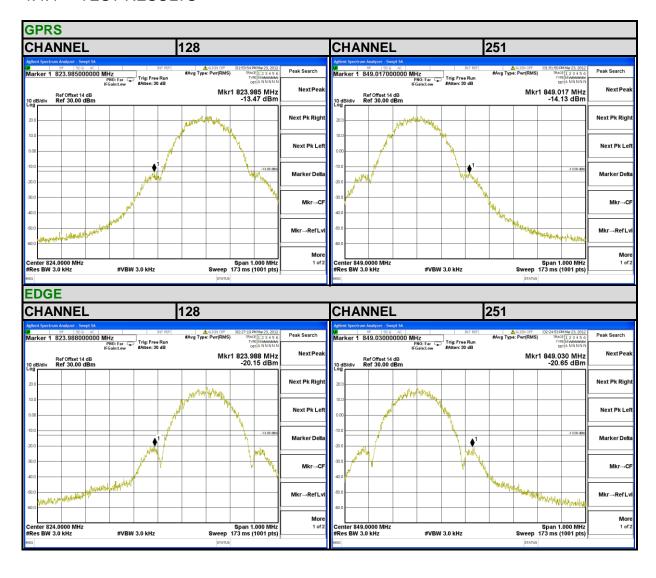


4.4.3 TEST PROCEDURES

- 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. RBW of the spectrum is 3kHz and VBW of the spectrum is 3kHz (GPRS/EDGE).
- c. Record the max trace plot into the test report.



4.4.4 TEST RESULTS





4.5 CONDUCTED SPURIOUS EMISSIONS

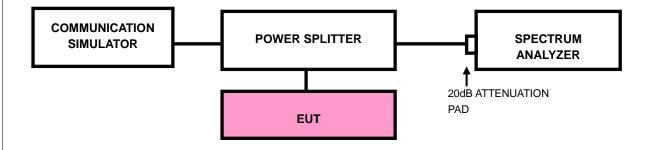
4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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

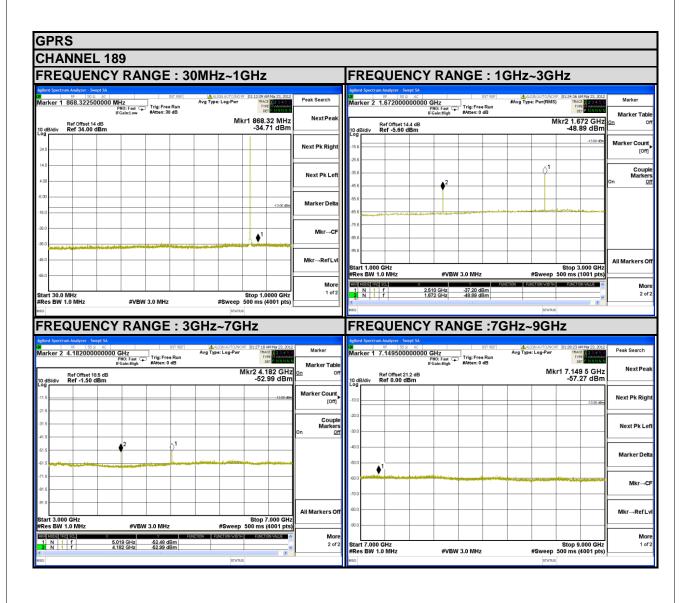
- a. The EUT makes a phone call to the communication simulator. All measurements were done at middle channel operational frequency.
- b. Measuring frequency range is from 9 kHz to 9GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

4.5.3 TEST SETUP

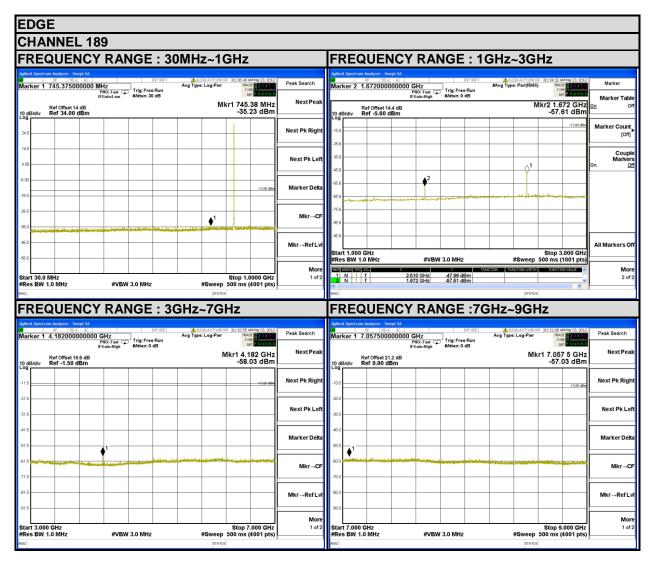




4.5.4 TEST RESULTS









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.

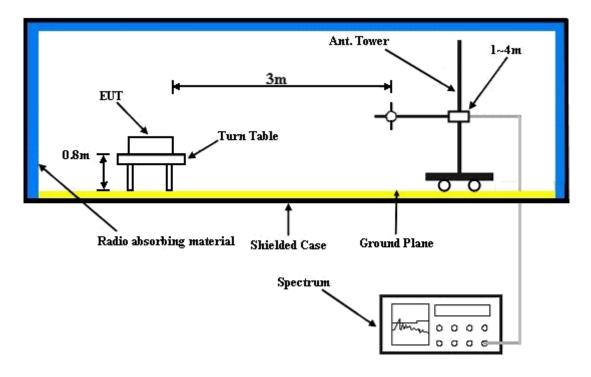
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

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).

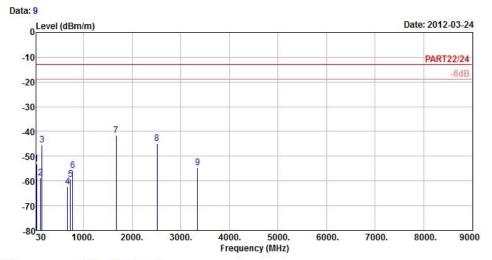


4.6.5 TEST RESULTS

GPRS:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL

Brand/Model: HiLoNC3GPS
Remark : GPRS850 Link
Tested by : Kay Wu
Temprature : 25°C

Humidity : 65% Plane : X

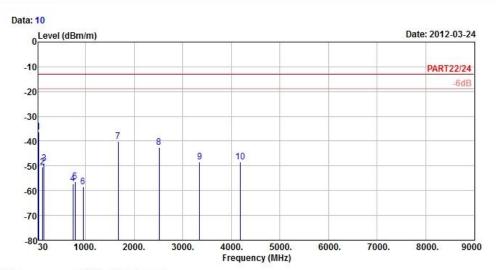
Read Limit Over Freq Level Level Line Limit Factor Remark

-	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	30.00	-53.23	-54.30	-13.00	-40.23	1.07	Peak
2	115.32	-58.68	-47.94	-13.00	-45.68	-10.74	Peak
3	145.29	-45.54	-39.49	-13.00	-32.54	-6.05	Peak
4	674.50	-62.29	-63.27	-13.00	-49.29	0.98	Peak
5	728.40	-59.23	-60.87	-13.00	-46.23	1.64	Peak
6	777.40	-55.82	-57.80	-13.00	-42.82	1.98	Peak
7 pp	1672.80	-41.63	-28.81	-13.00	-28.63	-12.82	Peak
8	2509.20	-44.87	-35.70	-13.00	-31.87	-9.17	Peak
9	3345.60	-54.52	-46.71	-13.00	-41.52	-7.81	Peak





Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL

Brand/Model: HiLoNC3GPS Remark : GPRS850 Link

Tested by : Kay Wu Temprature : 25℃ Humidity : 65% Plane : X

Read Limit 0ver Freq Level Line Limit Factor Remark MHz dBm/m dBm dBm/m dB dB/m

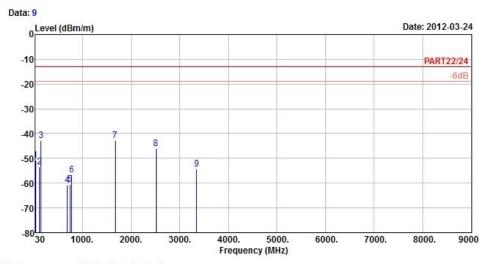
1 pp	30.00	-36.40	-37.47	-13.00	-23.40	1.07	Peak	
2	115.86	-50.59	-39.83	-13.00	-37.59	-10.76	Peak	
3	145.02	-48.99	-42.94	-13.00	-35.99	-6.05	Peak	
4	737.50	-57.25	-58.95	-13.00	-44.25	1.70	Peak	
5	787.20	-56.42	-58.46	-13.00	-43.42	2.04	Peak	
6	948.90	-58.32	-61.98	-13.00	-45.32	3.66	Peak	
7	1672.80	-40.22	-27.40	-13.00	-27.22	-12.82	Peak	
8	2509.20	-42.37	-33.20	-13.00	-29.37	-9.17	Peak	
9	3345.60	-48.49	-40.68	-13.00	-35.49	-7.81	Peak	
10	4182.00	-48.51	-42.93	-13.00	-35.51	-5.58	Peak	



EDGE:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5

Condition : PART22/24 3m EIRP_RSE_1G~19G_3 HORIZONTAL

Brand/Model: HiLoNC3GPS Remark : EDGE850 Link Tested by : Kay Wu

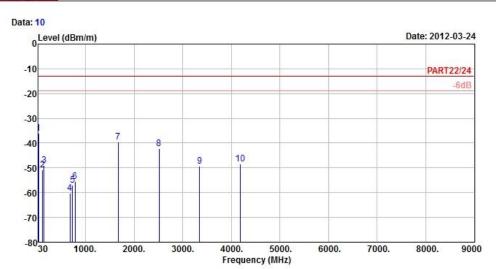
Temprature : 25℃ Humidity : 65% Plane : X

Read Limit Over Freq Level Level Line Limit Factor Remark MHz dBm/m dBm dBm/m 1 30.00 -50.73 -51.80 -13.00 -37.73 1.07 Peak 2 113.70 -53.54 -42.85 -13.00 -40.54 -10.69 Peak 144.48 -42.84 -36.86 -13.00 -29.84 -5.98 Peak 4 685.70 -60.91 -62.10 -13.00 -47.91 1.19 Peak 739.60 -60.39 -62.11 -13.00 -47.39 1.72 Peak 6 773.20 -56.79 -58.74 -13.00 -43.79 1.95 Peak 1672.80 -42.93 -30.11 -13.00 -29.93 -12.82 Peak 2509.20 -46.08 -36.91 -13.00 -33.08 -9.17 Peak 8 3345.60 -54.28 -46.47 -13.00 -41.28 -7.81 Peak





Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5 Condition : PART22/24 3m EIRP_RSE_1G~19G_3 VERTICAL

Brand/Model: HiLoNC3GPS Remark : EDGE850 Link

Tested by : Kay Wu Temprature : 25℃ Humidity : 65% Plane : X

Read Limit 0ver Freq Level Line Limit Factor Remark MHz dBm/m dBm dBm/m dB dB/m

	pp	30.00	-36.13	-37.20	-13.00	-23.13	1.07	Peak
2		117.21	-50.78	-40.00	-13.00	-37.78	-10.78	Peak
3		145.29	-48.91	-42.86	-13.00	-35.91	-6.05	Peak
4		678.70	-60.30	-61.37	-13.00	-47.30	1.07	Peak
5		734.00	-57.02	-58.70	-13.00	-44.02	1.68	Peak
6		780.20	-55.39	-57.38	-13.00	-42.39	1.99	Peak
7		1672.80	-39.50	-26.68	-13.00	-26.50	-12.82	Peak
8		2509.20	-42.10	-32.93	-13.00	-29.10	-9.17	Peak
9		3345.60	-49.22	-41.41	-13.00	-36.22	-7.81	Peak
10		4182.00	-48.31	-42.73	-13.00	-35.31	-5.58	Peak



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.

Copies of accreditation and authorization 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: Hsin Chu EMC/RF Lab:

Tel: 886-2-26052180 Tel: 886-3-5935343 Fax: 886-2-26051924 Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:

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

Email: service.adt@tw.bureauveritas.com

Web Site: www.adt.com.tw

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



CHANGES TO THE EUT BY THE LAB
No any modifications were made to the EUT by the lab during the test.
END
END