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PARTIAL FCC TEST REPORT (PART 24)

REPORT NO.: RF130412C18-1

MODEL NO.: PXS8

FCC ID: QYLPXS8

RECEIVED: Apr. 12, 2013

TESTED: May 02, 2013 ~ May 03, 2013

ISSUED: Jun. 17, 2013

APPLICANT: Getac Technology Corporation

ADDRESS: 5F., Building A, No. 209, Sec.1, Nangang Rd., Nangang Dist., Taipei City 11568, 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.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF130412C18-1	Original release	Jun. 17, 2013



1 CERTIFICATION

PRODUCT: Module
MODEL: PXS8
BRAND: Cinterion
APPLICANT: Getac Technology Corporation
TESTED: May 02, 2013 ~ May 03, 2013
TEST SAMPLE: Identical Prototype
STANDARDS: FCC Part 24, Subpart E

The above equipment (model: PXS8) 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 : Evonne Liu , **DATE** : Jun. 17, 2013
Evonne Liu / Specialist

APPROVED BY : Sam Chen , **DATE** : Jun. 17, 2013
Sam Chen / Assistant Manager

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 24 & Part 2			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
2.1046 24.232	Equivalent isotropically radiated power	PASS	Meet the requirement of limit.
2.1055 24.235	Frequency Stability	NA	Refer to NOTE below
2.1049 24.238(b)	Occupied Bandwidth	NA	Refer to NOTE below
24.232(d)	Peak to average ratio	NA	Refer to NOTE below
24.238(b)	Band Edge Measurements	NA	Refer to NOTE below
2.1051 24.238	Conducted Spurious Emissions	NA	Refer to NOTE below
2.1053 24.238	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -27.97dB at 42.42MHz.

NOTE: Test items for e.i.r.p. and radiated spurious emissions test were performed for this report. Other test data please refer to module report on (WWAN Module, model: PXS8, FCC ID: QIPXS8) Report No.: MDE_CINTE_1203_FCC24a_V1/MDE_CINTE_1203_FCC24b_V1.

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
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. 15, 2013	Apr. 14, 2014
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 17, 2012	Dec. 16, 2013
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Mar. 25, 2013	Mar. 24, 2014
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Jan. 07, 2013	Jan. 06, 2014
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 25, 2012	Dec. 24, 2013
Loop Antenna	HFH2-Z2	100070	Jan. 31, 2012	Jan. 30, 2014
Preamplifier EMCI	EMC 012645	980115	Dec. 28, 2012	Dec. 27, 2013
Preamplifier EMCI	EMC 184045	980116	Dec. 28, 2012	Dec. 27, 2013
Preamplifier EMCI	EMC 330H	980112	Dec. 28, 2012	Dec. 27, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4	Oct. 19, 2012	Oct. 18, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 19, 2012	Oct. 18, 2013
RF signal cable Worken	RG-213	NA	Dec. 29, 2012	Dec. 28, 2013
Software	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	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 10.
 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 690701.
 6. The IC Site Registration No. is IC 7450F-10.



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3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Module	
MODEL NO.	PXS8	
POWER SUPPLY	12.0Vdc (adapter or host equipment) 3.7Vdc (battery)	
MODULATION TYPE	GSM/GPRS	GMSK
	EDGE	8PSK
	WCDMA	BPSK
	CDMA	QPSK, OQPSK, HPSK
FREQUENCY RANGE	GSM/GPRS/EDGE	1850.2MHz ~ 1909.8MHz
	WCDMA	1852.4MHz ~ 1907.6MHz
	CDMA	1851.3MHz ~ 1908.8MHz
MAX. EIRP POWER	GPRS	774.46mW
	EDGE	291.07mW
	WCDMA	217.77mW
	CDMA	130.62mW
ANTENNA TYPE	Fixed Internal Antenna	
I/O PORTS	Refer to users' manual	
DATA CABLE	NA	
ACCESSORY DEVICES	NA	

NOTE:

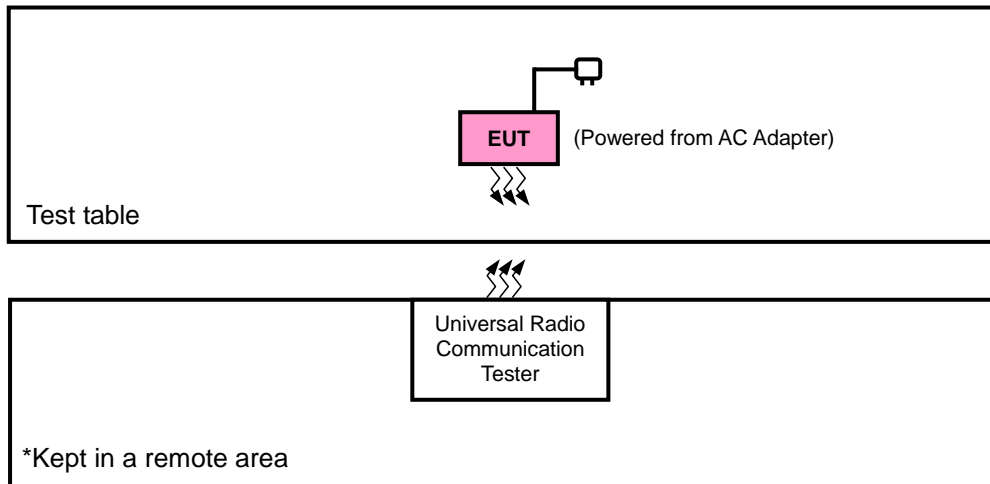
1. The transmitter module is authorized for use in specific End-product (Tablet PC, Brand: Getac, Model: Z710).
2. The Tablet PC contains following accessory devices.

No.	Product	Brand	MODEL	Description
1	AC Adapter	ADP (Asian Power Devices Inc.)	WA-24I12R	I/P: 100-240Vac, 0.7A O/P: 12Vdc, 2A
2	Li-ion Battery	Getac	BP1S2P3800-Y	Rating: 3.7Vdc, 7.6mAh
3	LCD Panel	BOE	HV070WSA-100	NA

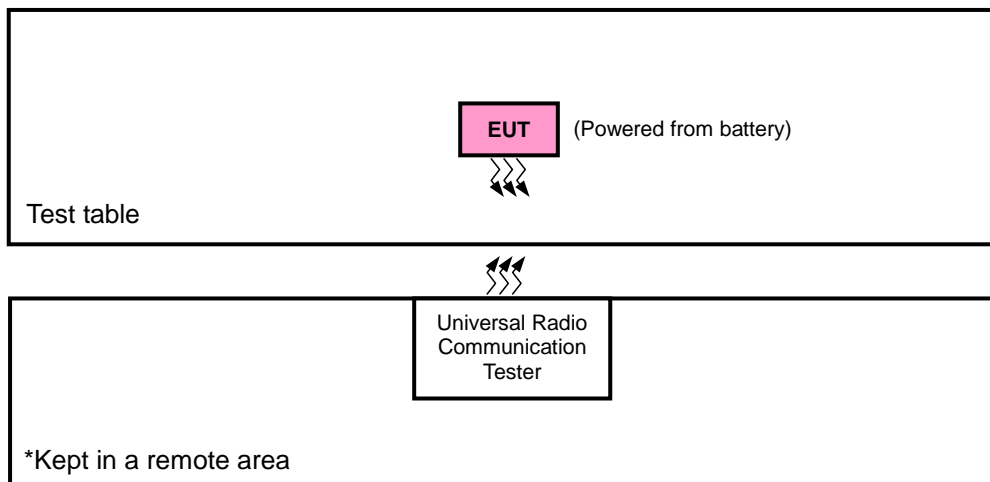
3. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



FOR E.I.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.



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

GSM MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
-	EIRP	512 to 810	512, 661, 810	GPRS, EDGE
-	RADIATED EMISSION	512 to 810	661	GPRS, EDGE

WCDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
-	EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
-	RADIATED EMISSION	9262 to 9538	9400	WCDMA

CDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
-	EIRP	25 to 1175	25, 600, 1175	1xRTT
-	RADIATED EMISSION	25 to 1175	600	1xRTT

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP	26deg. C, 58%RH	3.7Vdc	Phoenix Chen
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	Johnson Liao

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 24

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 and portable stations are limited to 2 watts EIRP

4.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

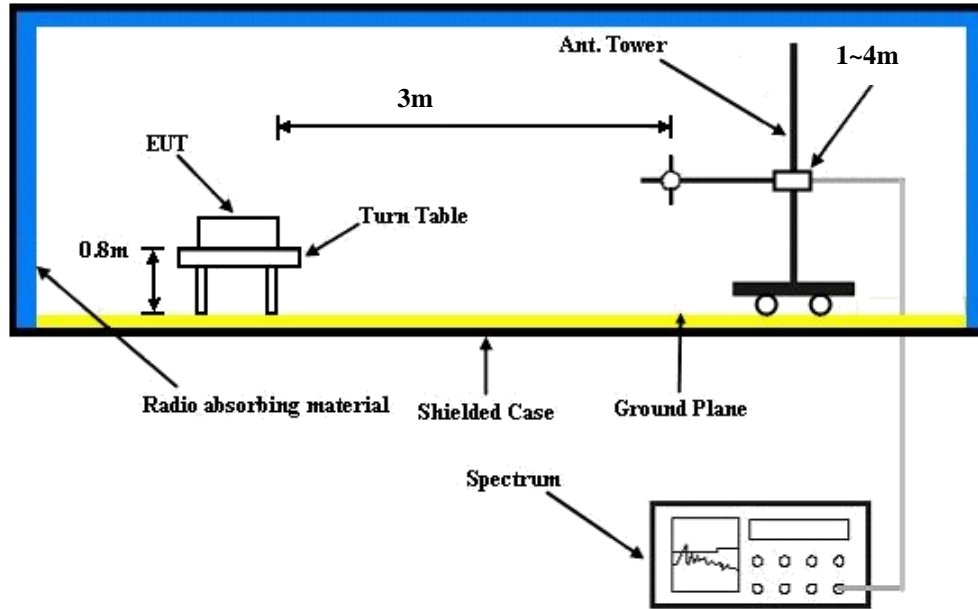
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1MHz for GSM, GPRS & EDGE, and 5MHz for CDMA & WCDMA mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the 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. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn.}$

CONDUCTED POWER MEASUREMENT:

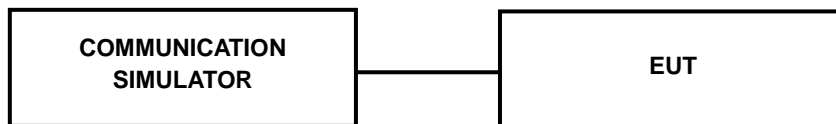
The EUT was set up for the maximum power with GSM, GPRS, EDGE & WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 TEST SETUP

EIRP / ERP MEASUREMENT:



CONDUCTED POWER MEASUREMENT:





4.1.4 TEST RESULTS

ERP POWER (dBm)

GPRS

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	512	1850.2	-9.84	38.19	28.35	683.91	H
	661	1880.0	-9.82	38.70	28.88	772.68	H
	810	1909.8	-9.54	38.43	28.89	774.46	H
	512	1850.2	-18.39	38.48	20.09	102.09	V
	661	1880.0	-18.19	38.59	20.40	109.65	V
	810	1909.8	-18.38	38.87	20.49	111.94	V

EDGE

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	512	1850.2	-13.55	38.19	24.64	291.07	H
	661	1880.0	-14.46	38.70	24.24	265.46	H
	810	1909.8	-14.74	38.43	23.69	233.88	H
	512	1850.2	-23.21	38.48	15.27	33.65	V
	661	1880.0	-23.10	38.59	15.49	35.40	V
	810	1909.8	-23.79	38.87	15.08	32.21	V



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WCDMA

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	9262	1852.4	-15.01	38.19	23.18	207.97	H
	9400	1880.0	-15.32	38.70	23.38	217.77	H
	9538	1907.6	-15.10	38.43	23.33	215.28	H
	9262	1852.4	-24.45	38.48	14.03	25.29	V
	9400	1880.0	-24.54	38.59	14.05	25.41	V
	9538	1907.6	-23.90	38.87	14.97	31.41	V

CDMA

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	25	1851.25	-17.65	38.19	20.54	113.24	H
	600	1880.00	-17.54	38.70	21.16	130.62	H
	1175	1908.75	-17.31	38.43	21.12	129.42	H
	25	1851.25	-27.19	38.48	11.29	13.46	V
	600	1880.00	-27.17	38.59	11.42	13.87	V
	1175	1908.75	-27.75	38.87	11.12	12.94	V

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 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 .

4.2.2 TEST PROCEDURES

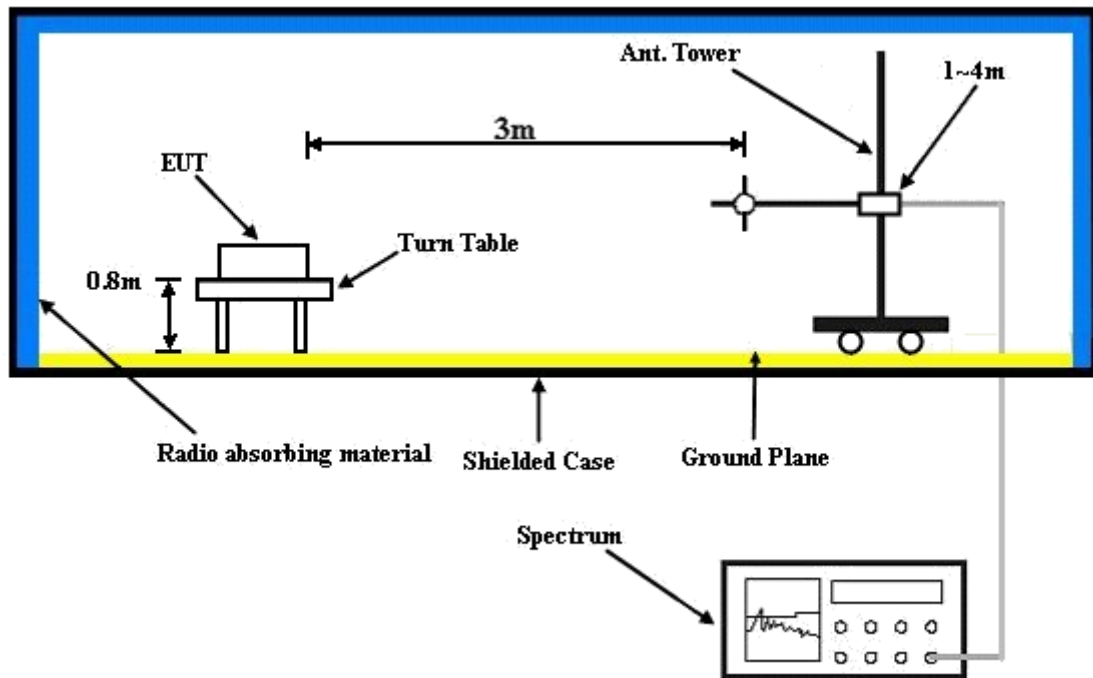
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 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. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,
 $\text{E.R.P power} = \text{E.I.R.P power} - 2.15\text{dBi}$.

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

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

4.2.4 TEST SETUP



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



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4.2.5 TEST RESULTS

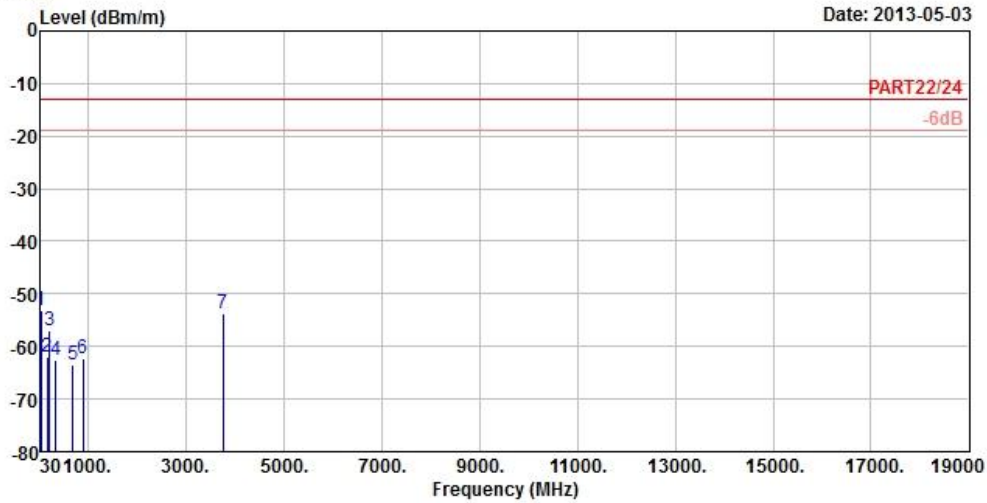
GPRS:



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Data: 15



Site : 966 Chamber 5
 Condition : PART22/24 3m HORIZONTAL
 Brand/Model: Z710
 Remark : GPRS1900 Link
 Tested by : Johnson Liao
 Temperature : 25°C
 Humidity : 65%
 Plane : Z

	Read	Limit	Over			
Level	Level	Line	Limit	Factor	Remark	
Freq	Level	Line	Limit	Factor	Remark	
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	42.69	-53.21	-51.88	-13.00	-40.21	-1.33 Peak
2	157.98	-62.00	-55.52	-13.00	-49.00	-6.48 Peak
3	207.12	-57.05	-49.45	-13.00	-44.05	-7.60 Peak
4	341.30	-62.56	-56.49	-13.00	-49.56	-6.07 Peak
5	682.90	-63.42	-64.56	-13.00	-50.42	1.14 Peak
6	892.20	-62.16	-64.82	-13.00	-49.16	2.66 Peak
7	3760.00	-53.71	-46.98	-13.00	-40.71	-6.73 Peak



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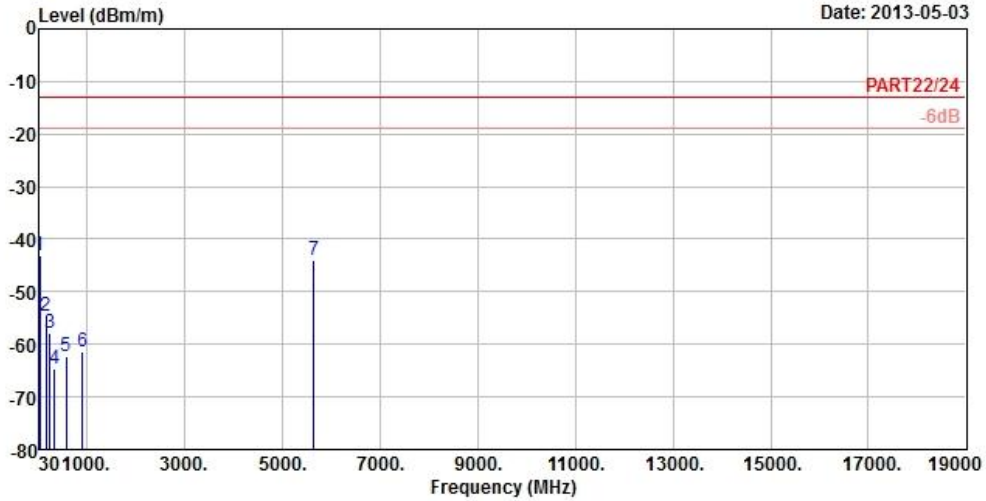


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Data: 16

Date: 2013-05-03



Site : 966 Chamber 5
 Condition : PART22/24 3m VERTICAL
 Brand/Model: Z710
 Remark : GPRS1900 Link
 Tested by : Johnson Liao
 Temperature : 25°C
 Humidity : 65%
 Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	pp	42.42	-42.97	-41.64	-13.00	-29.97	-1.33 Peak
2		159.06	-54.71	-48.21	-13.00	-41.71	-6.50 Peak
3		243.57	-57.82	-51.83	-13.00	-44.82	-5.99 Peak
4		339.20	-64.71	-58.62	-13.00	-51.71	-6.09 Peak
5		569.50	-62.23	-61.03	-13.00	-49.23	-1.20 Peak
6		910.40	-61.29	-64.20	-13.00	-48.29	2.91 Peak
7		5640.00	-44.00	-44.21	-13.00	-31.00	0.21 Peak



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EDGE:

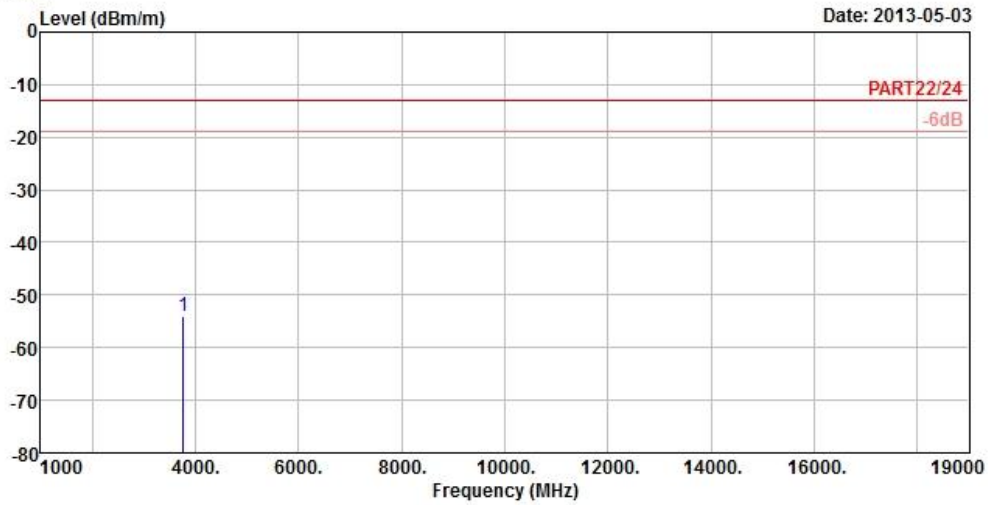


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Data: 11

Date: 2013-05-03



Site : 966 Chamber 5
 Condition : PART22/24 3m HORIZONTAL
 Brand/Model: Z710
 Remark : EDGE1900 Link
 Tested by : Johnson Liao
 Temperature : 25°C
 Humidity : 65%
 Plane : Z

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 3760.00	-54.16	-47.43	-13.00	-41.16	-6.73	Peak



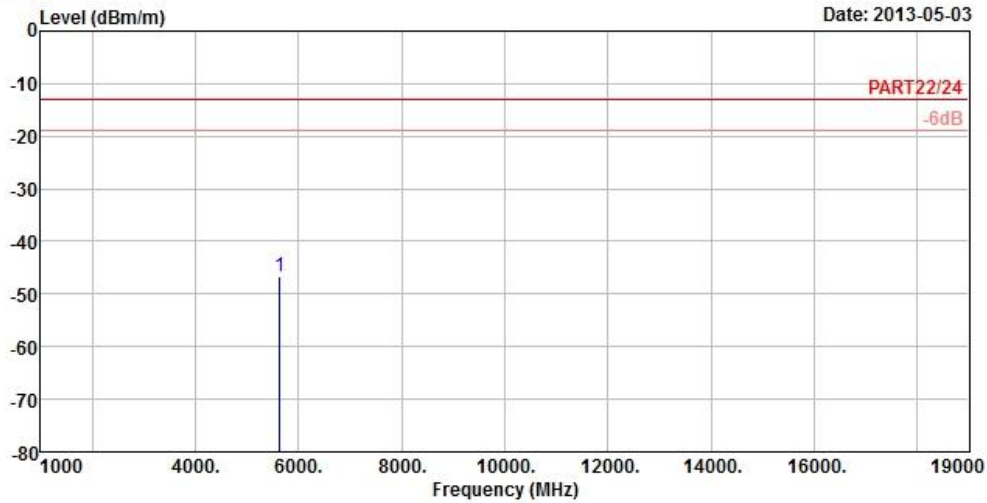
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Data: 12



Site : 966 Chamber 5
 Condition : PART22/24 3m VERTICAL
 Brand/Model: Z710
 Remark : EDGE1900 Link
 Tested by : Johnson Liao
 Temperature : 25°C
 Humidity : 65%
 Plane : Z

	Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor
MHz	dBm/m	dBm	dBm/m	dB	dB/m
1 pp 5640.00	-46.78	-46.99	-13.00	-33.78	0.21
					Peak



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WCDMA:

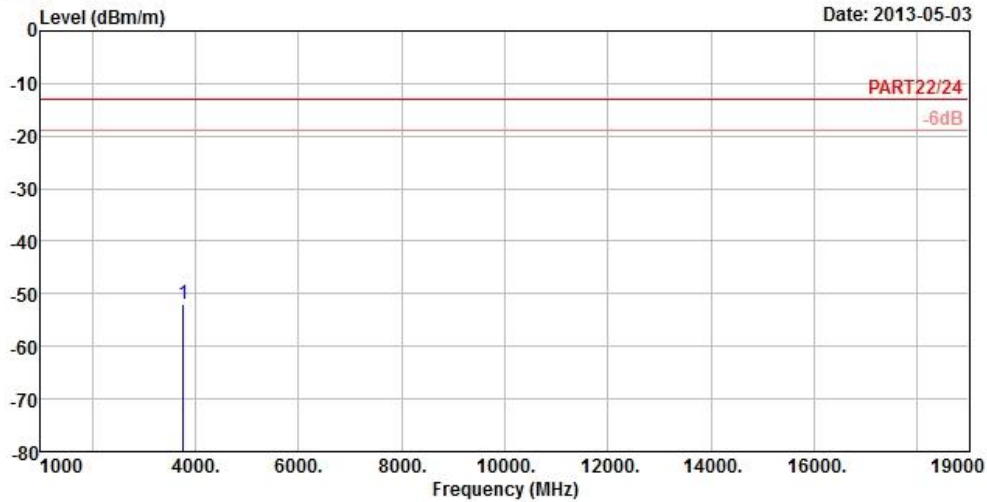


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Data: 11

Date: 2013-05-03



Site : 966 Chamber 5
 Condition : PART22/24 3m HORIZONTAL
 Brand/Model: Z710
 Remark : Band II Link
 Tested by : Johnson Liao
 Temperature : 25°C
 Humidity : 65%
 Plane : Z

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 3760.00	-51.86	-45.13	-13.00	-38.86	-6.73	Peak



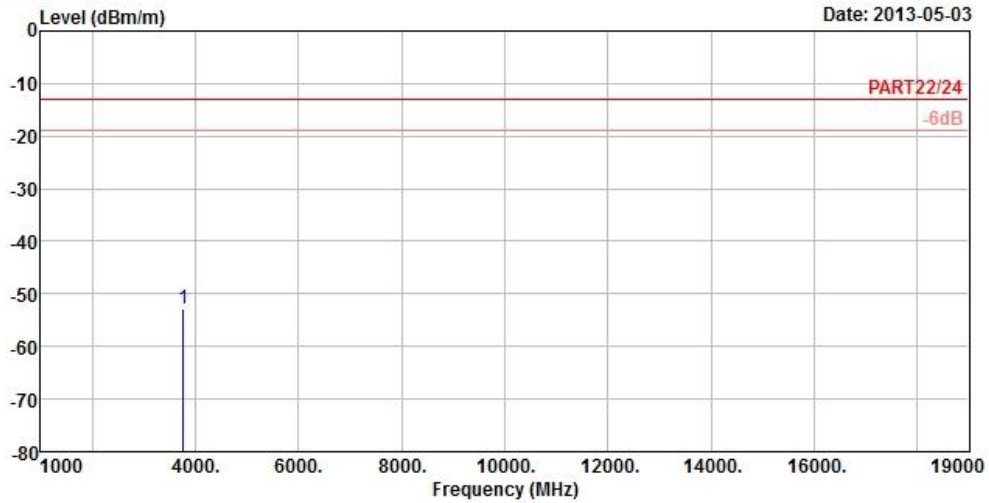
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Data: 12



Site : 966 Chamber 5
 Condition : PART22/24 3m VERTICAL
 Brand/Model: Z710
 Remark : Band II Link
 Tested by : Johnson Liao
 Temperature : 25°C
 Humidity : 65%
 Plane : Z

	Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m
1 pp 3760.00	-52.96	-46.23	-13.00	-39.96	-6.73 Peak



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CDMA:

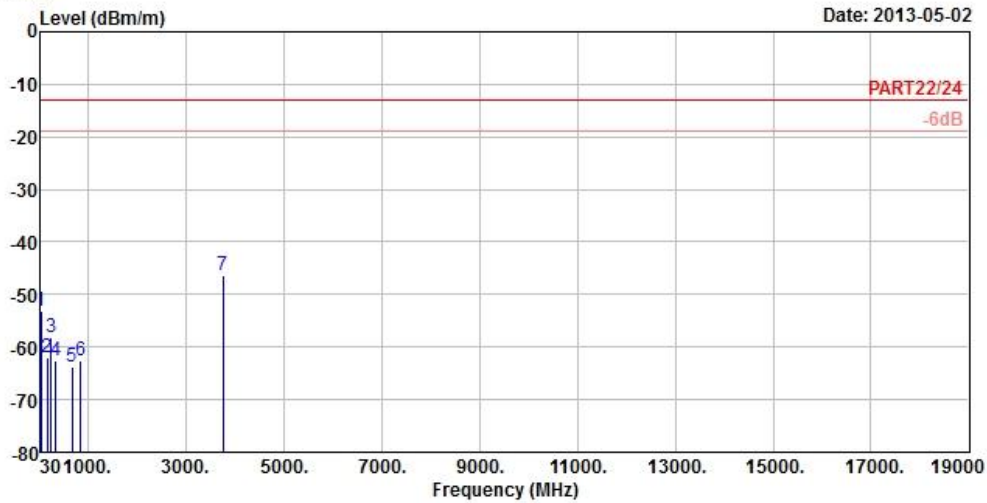


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Data: 15

Date: 2013-05-02



Site : 966 Chamber 5
 Condition : PART22/24 3m HORIZONTAL
 Brand/Model: Z710
 Remark : 1XRTT1900 Link
 Tested by : Johnson Liao
 Temperature : 25°C
 Humidity : 65%
 Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	42.69	-53.21	-51.88	-13.00	-40.21	-1.33	Peak
2	157.98	-62.00	-55.52	-13.00	-49.00	-6.48	Peak
3	241.95	-58.20	-52.17	-13.00	-45.20	-6.03	Peak
4	341.30	-62.56	-56.49	-13.00	-49.56	-6.07	Peak
5	674.50	-63.89	-64.87	-13.00	-50.89	0.98	Peak
6	850.20	-62.73	-65.15	-13.00	-49.73	2.42	Peak
7 pp	3760.00	-46.29	-39.56	-13.00	-33.29	-6.73	Peak



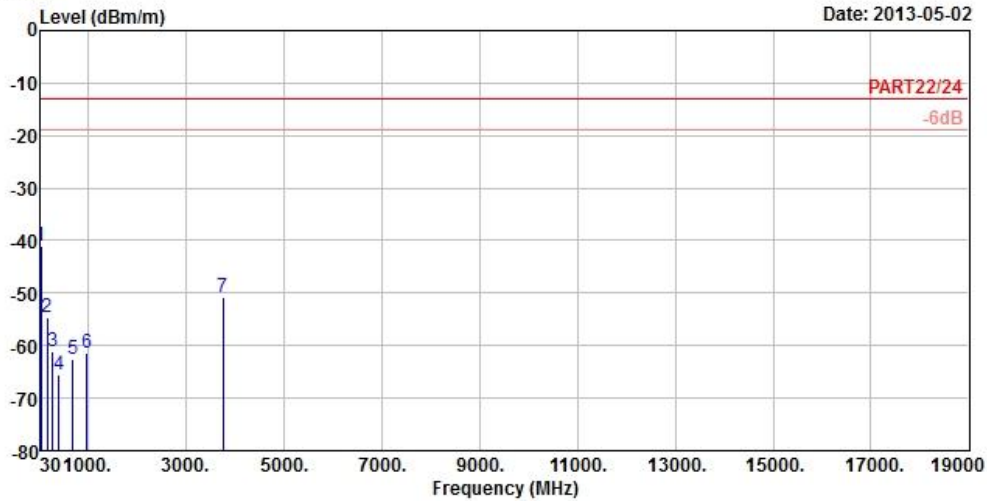
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 16



Site : 966 Chamber 5
 Condition : PART22/24 3m VERTICAL
 Brand/Model: Z710
 Remark : 1XRTT1900 Link
 Tested by : Johnson Liao
 Temperature : 25°C
 Humidity : 65%
 Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	42.42	-40.97	-39.64	-13.00	-27.97	-1.33	Peak
2	159.06	-54.71	-48.21	-13.00	-41.71	-6.50	Peak
3	268.14	-61.15	-55.21	-13.00	-48.15	-5.94	Peak
4	398.70	-65.56	-59.91	-13.00	-52.56	-5.65	Peak
5	682.90	-62.58	-63.72	-13.00	-49.58	1.14	Peak
6	977.60	-61.52	-65.75	-13.00	-48.52	4.23	Peak
7	3760.00	-50.79	-44.06	-13.00	-37.79	-6.73	Peak



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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:

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:

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Web Site: www.bureauveritas-adt.com

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 any modifications were made to the EUT by the lab during the test.

---END---