FCC TEST REPORT

(PART 22)

REPORT NO.: RF130814C33

MODEL NO.: NeverLost® 6 Tablet

FCC ID: 2AA4L-HTZNLTABLET

RECEIVED: Aug. 14, 2013

TESTED: Sep. 03, 2013 ~ Sep. 05, 2013

ISSUED: Sep. 16, 2013

APPLICANT: MiTAC International Corp.

ADDRESS: Building B, No. 209, Sec. 1, Nan Gang Rd., Nan Gang Dist., Taipei 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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Testing Laboratory
2021

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF130814C33	Original release	Sep. 16, 2013

1 CERTIFICATION

PRODUCT:	Automotive Navigation Device
MODEL:	NeverLost® 6 Tablet
BRAND:	Hertz
APPLICANT:	MiTAC International Corp.
TESTED:	Sep. 03, 2013 ~ Sep. 05, 2013
TEST SAMPLE:	Production Unit
STANDARDS:	**FCC PART 22, Subpart H**

The above equipment (model: NeverLost® 6 Tablet) 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 : Vera Huang **, DATE :** Sep. 16, 2013

Vera Huang / Specialist

APPROVED BY : Sam chen **, DATE :** Sep. 16, 2013

Sam Chen / Assistant Manager

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 -26.72dB at 2509.20MHz.

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	ESCS30	100289	Nov. 16, 2012	Nov. 15, 2013
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 BV ADT	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 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 690701.
5. The IC Site Registration No. is IC 7450F-10.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Automotive Navigation Device	
MODEL NO.	NeverLost® 6 Tablet	
POWER SUPPLY	3.7Vdc (battery)	
MODULATION TYPE	**GSM/GPRS**	GMSK
	EDGE	8PSK
	WCDMA	BPSK
FREQUENCY RANGE	**GSM/GPRS/EDGE**	824.2MHz ~ 848.8MHz
	WCDMA	826.4MHz ~ 846.6MHz
MAX. ERP POWER	**GSM**	1506.61mW
	EDGE	316.96mW
	WCDMA	161.06mW
EMISSION DESIGNATOR	**GSM**	247KGXW
	EDGE	247KG7W
	WCDMA	4M15F9W
MULTI-SLOTS CLASS	12	
WCDMA RELEASE VERSION	6	
ANTENNA TYPE	Fixed Internal Antenna with 1dBi gain	
I/O PORTS	Refer to users' manual	
DATA CABLE	Refer to NOTE as below	
ACCESSORY DEVICES	Refer to NOTE as below	

NOTE:

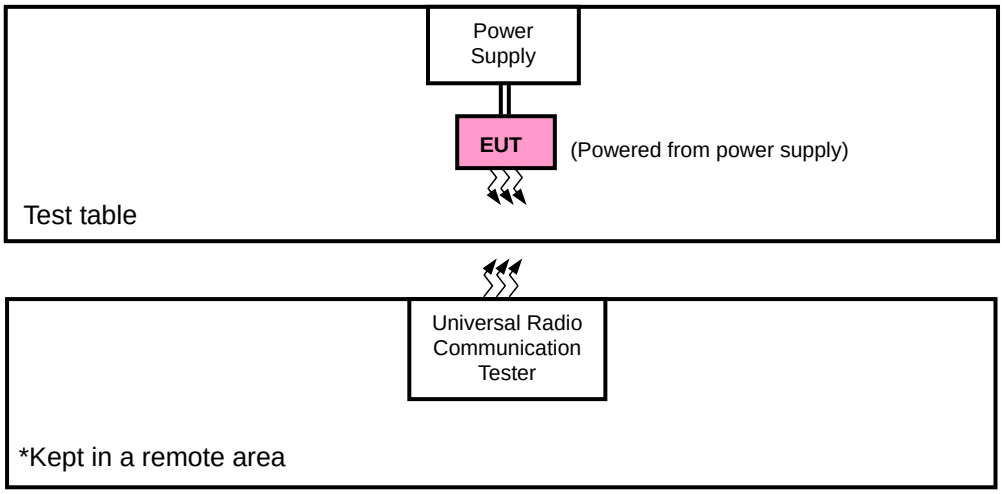
1. The EUT contains following accessory devices.

ITEM	BRAND	MODEL	DESCRIPTION
Battery	Tian Yu	N425	Rating: 3.7Vdc, 920mAh
WWAN Module	CINTERION	PHS8-P	--
WLAN Module	nFore	NF3301	--
NFC Module	Jogtek	TM-007A	--
BT Module	nFore	NF3301	--

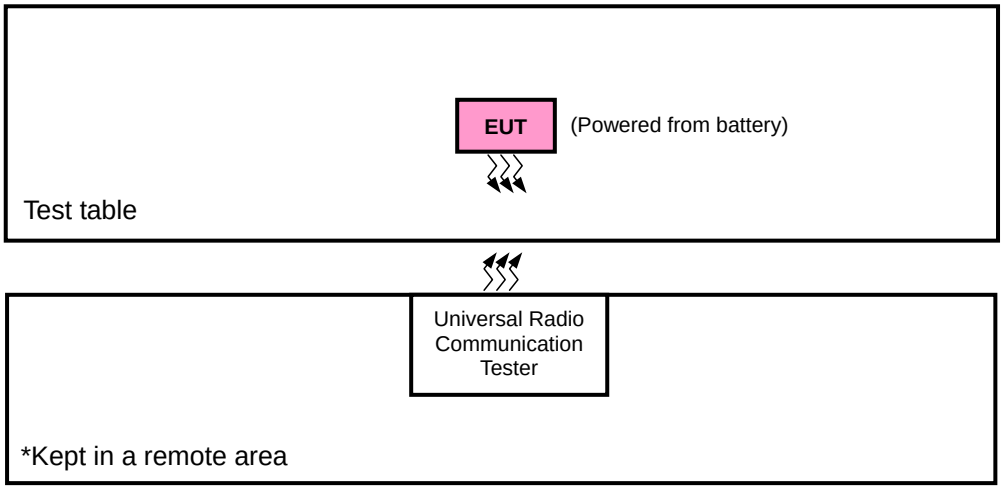
2. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

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.

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 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
-	ERP	128 to 251	128, 189, 251	GSM, EDGE
-	FREQUENCY STABILITY	128 to 251	189	GSM, EDGE
-	OCCUPIED BANDWIDTH	128 to 251	128, 189, 251	GSM, EDGE
-	BAND EDGE	128 to 251	128, 251	GSM, EDGE
-	CONDCUDETED EMISSION	128 to 251	189	GSM, EDGE
-	RADIATED EMISSION	128 to 251	189	GSM, EDGE

WCDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
-	ERP	4132 to 4233	4132, 4182, 4233	WCDMA
-	FREQUENCY STABILITY	4132 to 4233	4182	WCDMA
-	OCCUPIED BANDWIDTH	4132 to 4233	4132, 4182, 4233	WCDMA
-	BAND EDGE	4132 to 4233	4132, 4233	WCDMA
-	CONDCUDETED EMISSION	4132 to 4233	4182	WCDMA
-	RADIATED EMISSION	4132 to 4233	4182	WCDMA

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	26deg. C, 58%RH	3.7Vdc	Howard Kao
FREQUENCY STABILITY	26deg. C, 58%RH	3.7Vdc	Howard Kao
OCCUPIED BANDWIDTH	26deg. C, 58%RH	3.7Vdc	Howard Kao
BAND EDGE	26deg. C, 58%RH	3.7Vdc	Howard Kao
CONDCUDETED EMISSION	26deg. C, 58%RH	3.7Vdc	Howard Kao
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	David Huang

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 GSM, GPRS & EDGE, and 5MHz for WCDMA.

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

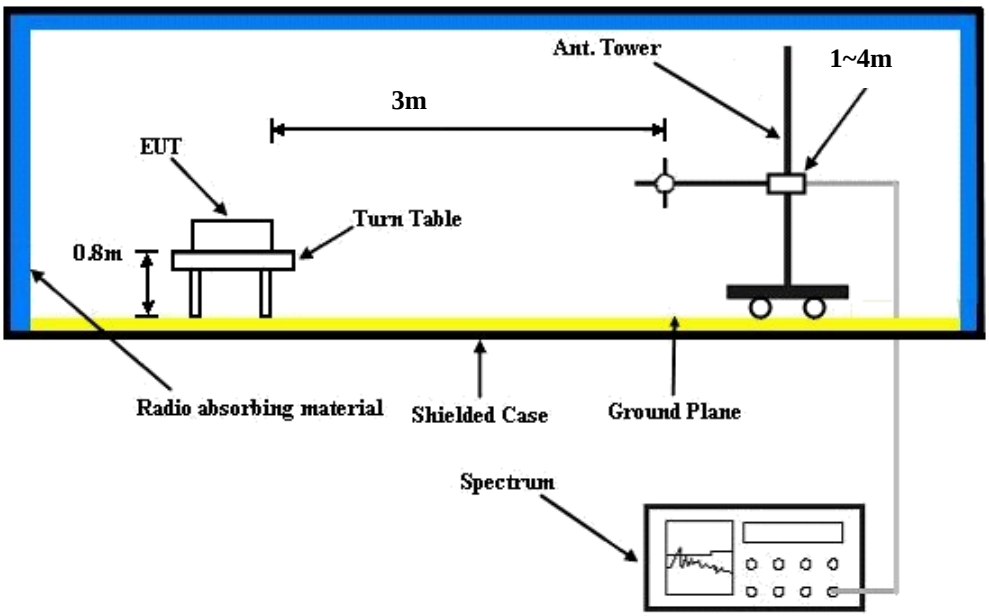
d. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15dBi.

CONDUCTED POWER MEASUREMENT:

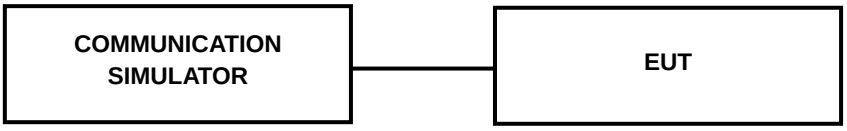
The EUT was set up for the maximum power with GSM, GPRS, EDGE, and WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 TEST SETUP

EIRP / ERP MEASUREMENT:



CONDUCTED POWER MEASUREMENT:



4.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band	GPRS850		
Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
GSM (1 Uplink)	32.17	32.27	32.03
GPRS 8 (GMSK, 1 slot)	32.19	**32.29**	32.05
GPRS 10 (GMSK, 2 slot)	29.31	29.41	29.17
GPRS 11 (GMSK, 3 slot)	27.30	27.40	27.16
GPRS 12 (GMSK, 4 slot)	26.01	26.11	25.87
EDGE 8 (GMSK, 1 Uplink)	32.08	32.18	31.94
EDGE 10 (GMSK, 2 Uplink)	29.25	29.35	29.11
EDGE 11 (GMSK, 3 Uplink)	27.22	27.32	27.08
EDGE 12 (GMSK, 4 Uplink)	25.92	26.02	25.78
EDGE 8 (8PSK, 1 Uplink)	26.05	26.15	25.91
EDGE 10 (8PSK, 2 Uplink)	22.93	23.03	22.79
EDGE 11 (8PSK, 3 Uplink)	21.20	21.30	21.06
EDGE 12 (8PSK, 4 Uplink)	20.28	20.38	20.14

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	**23.23**	23.15	23.11
HSDPA Subtest-1	23.08	23.00	22.96
HSDPA Subtest-2	21.27	21.19	21.15
HSDPA Subtest-3	20.14	20.06	20.02
HSDPA Subtest-4	19.99	19.91	19.87
HSUPA Subtest-1	23.16	23.08	23.04
HSUPA Subtest-2	21.40	21.32	21.28
HSUPA Subtest-3	22.21	22.13	22.09
HSUPA Subtest-4	22.14	22.06	22.02
HSUPA Subtest-5	23.22	23.15	23.11

ERP POWER (dBm)

GSM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	128	824.2	1.14	32.62	31.61	1448.77	H
	189	836.4	1.18	32.52	31.55	1428.89	H
	251	848.8	1.28	32.65	31.78	1506.61	H
	128	824.2	-6.56	32.76	24.05	254.10	V
	189	836.4	-6.51	32.39	23.73	236.05	V
	251	848.8	-6.52	32.54	23.87	243.78	V

EDGE

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	128	824.2	-5.65	32.62	24.82	303.39	H
	189	836.4	-5.74	32.52	24.63	290.40	H
	251	848.8	-5.49	32.65	25.01	316.96	H
	128	824.2	-14.70	32.76	15.91	38.99	V
	189	836.4	-13.89	32.39	16.35	43.15	V
	251	848.8	-14.13	32.54	16.26	42.27	V

WCDMA

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	4132	826.4	-8.82	32.62	21.65	146.22	H
	4182	836.4	-8.30	32.52	22.07	161.06	H
	4233	846.6	-8.63	32.65	21.87	153.82	H
	4132	826.4	-16.21	32.76	14.40	27.54	V
	4182	836.4	-15.54	32.39	14.70	29.51	V
	4233	846.6	-16.30	32.54	14.09	25.64	V

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

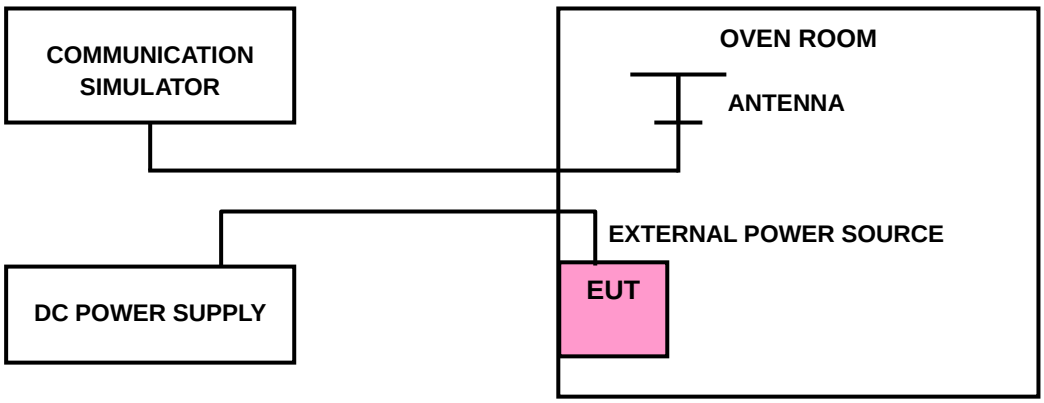
a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.

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)
	GSM	EDGE	WCDMA	
13.8	-0.02	-0.02	0.018	2.5
9	-0.02	-0.02	0.015	2.5
16	-0.03	-0.01	0.018	2.5

NOTE: The applicant defined the normal working voltage is from 9 Vdc to 16Vdc.

FREQUENCY ERROR vs. TEMPERATURE

TEMP. (℃)	FREQUENCY ERROR (ppm)			LIMIT (ppm)
	GSM	EDGE	WCDMA	
-30	-0.04	-0.02	-0.020	2.5
-20	-0.04	-0.02	-0.013	2.5
-10	-0.04	-0.03	0.015	2.5
0	-0.04	-0.01	0.015	2.5
10	-0.04	-0.02	0.017	2.5
20	-0.03	-0.03	0.020	2.5
30	-0.02	-0.03	0.016	2.5
40	-0.02	-0.03	0.022	2.5
50	-0.02	-0.02	0.017	2.5
60	-0.02	-0.03	0.017	2.5
70	-0.02	-0.03	0.021	2.5
80	-0.02	0.02	0.015	2.5

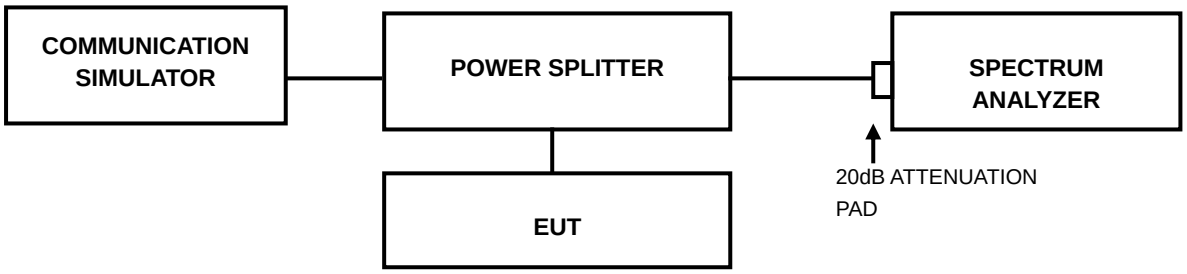
Note:
1. The applicant declared that the normal operating temperature of the EUT is from -30˚C to 80˚C.

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

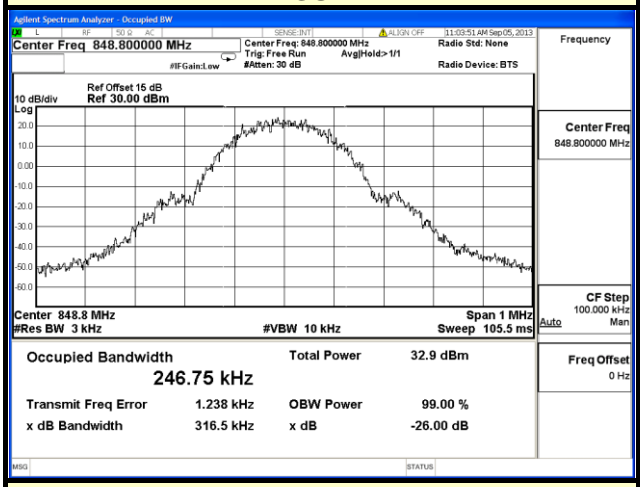


4.3.3 TEST RESULTS

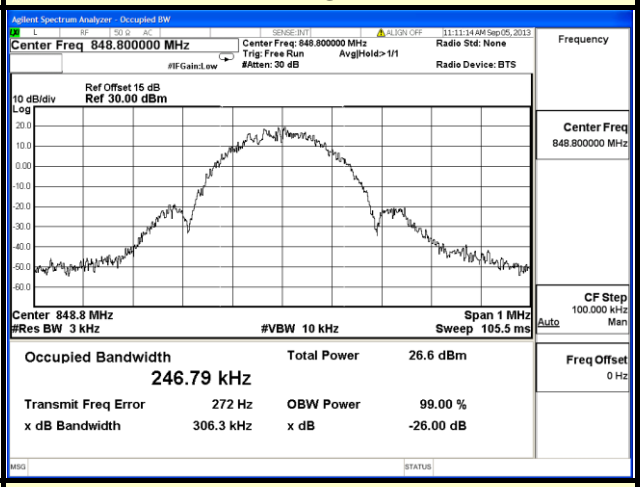
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (kHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)
		GSM	EDGE			WCDMA
128	824.2	245.67	244.92	4132	826.4	4.1493
189	836.4	242.94	243.85	4182	836.4	4.1503
251	848.8	246.75	246.79	4233	846.6	4.1500

SPECTRUM PLOT OF WORST VALUE

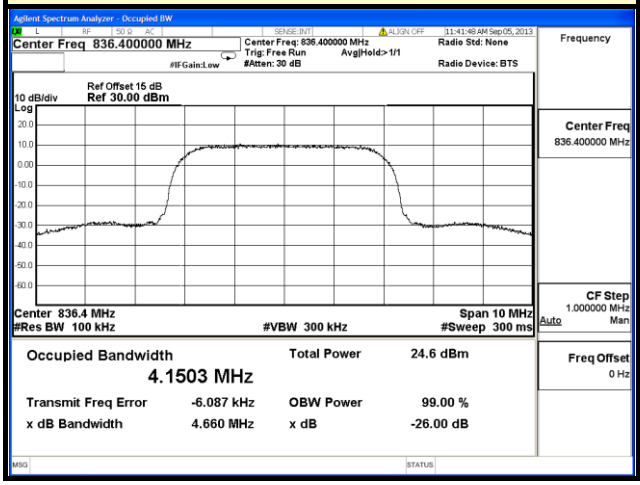
GSM



EDGE



WCDMA

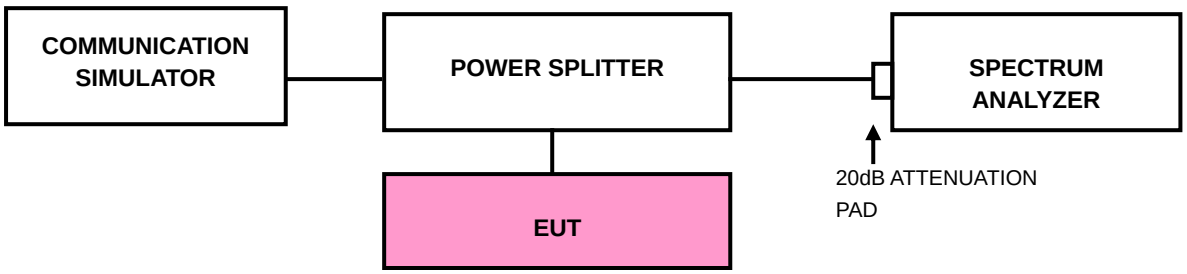


4.4 BAND EDGE MEASUREMENT

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 1MHz. RB of the spectrum is 3kHz and VB of the spectrum is 10kHz (GSM/GPRS/ EDGE).

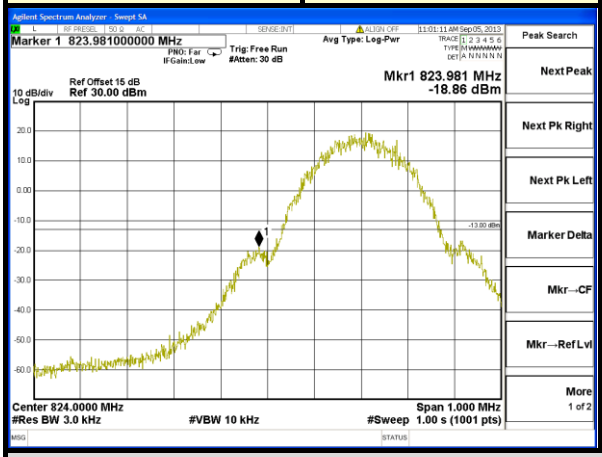
c. The center frequency of spectrum is the band edge frequency and span is 5MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (WCDMA/LTE).

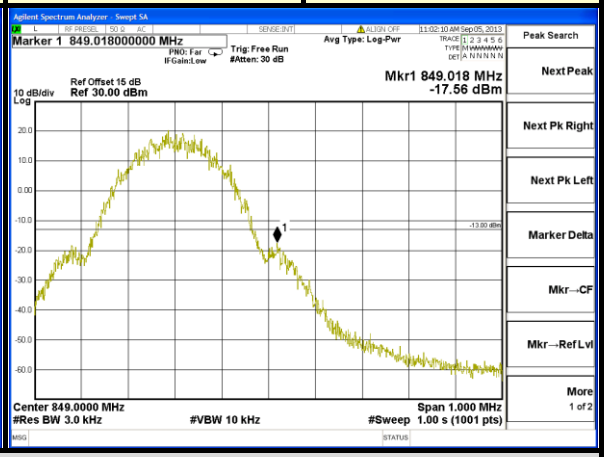
d. Record the max trace plot into the test report.

4.4.4 TEST RESULTS

GSM

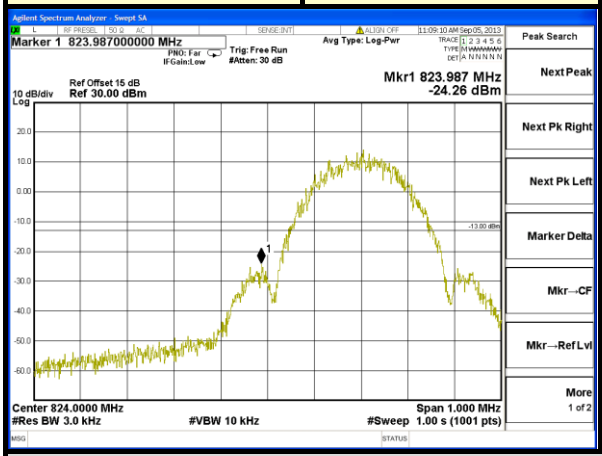
CHANNEL	128	CHANNEL	251

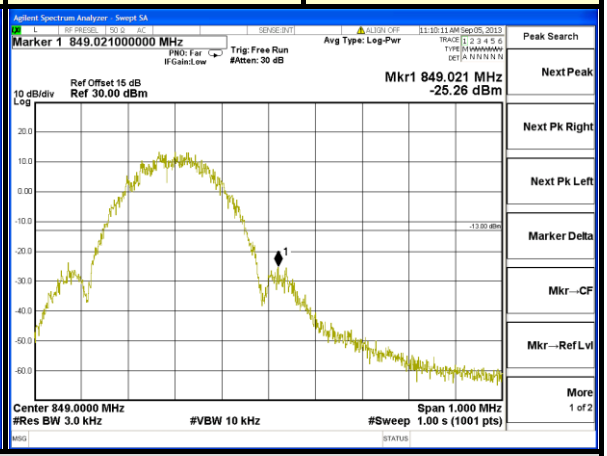




EDGE

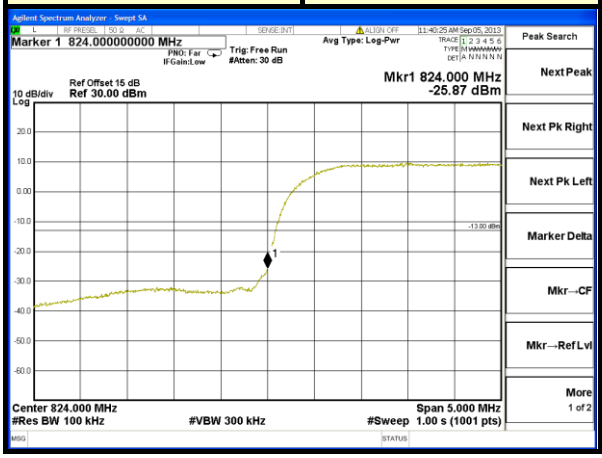
CHANNEL	128	CHANNEL	251

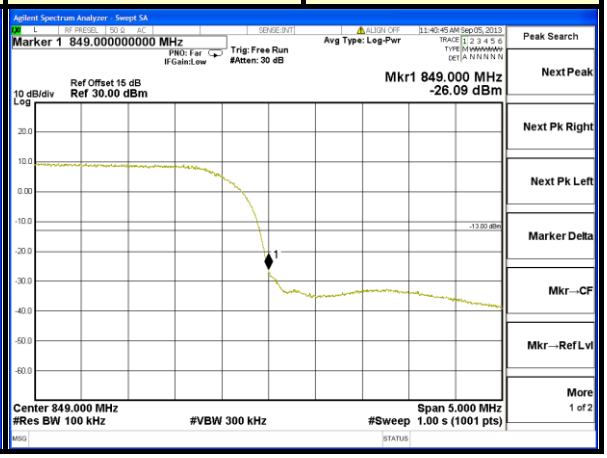




WCDMA

CHANNEL	4132	CHANNEL	4233





4.5 CONDUCTED SPURIOUS EMISSIONS

4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

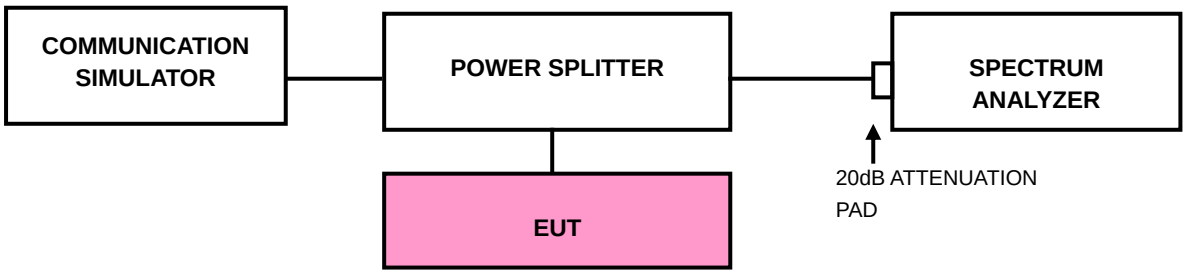
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to –13dBm.

4.5.2 TEST PROCEDURE

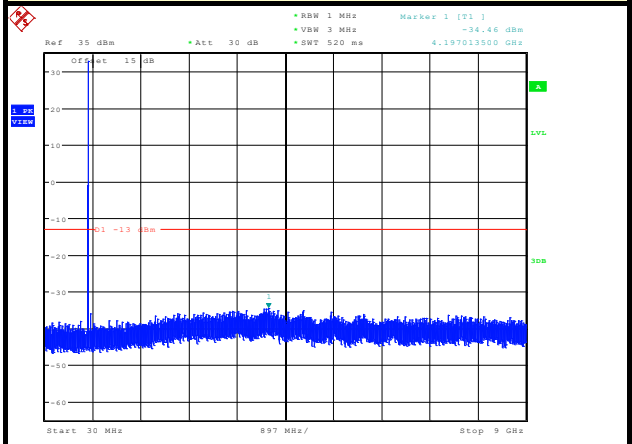
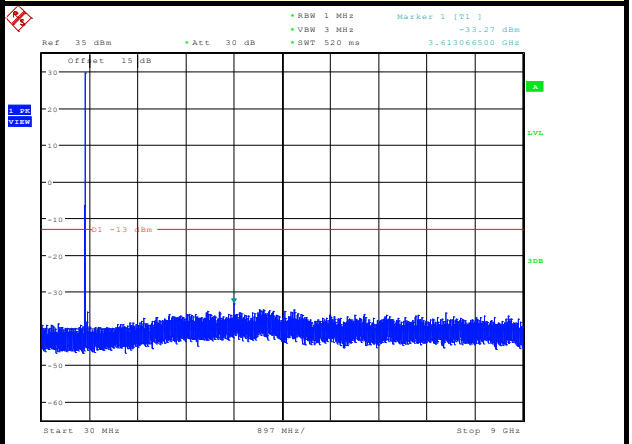
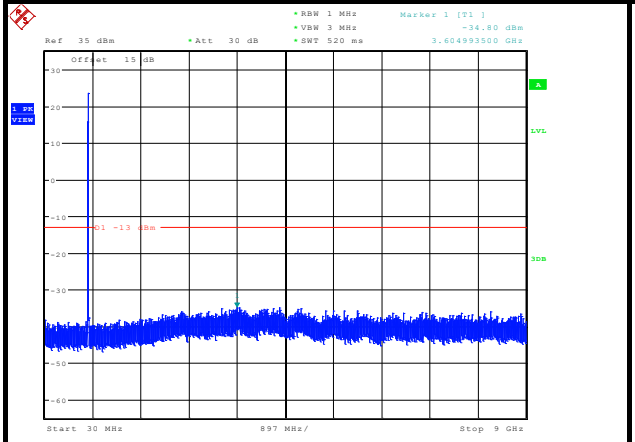
a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.

b. Measuring frequency range is from 30 MHz to 9GHz. 10dB 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

FREQUENCY RANGE : 30MHz~9GHz	
GSM	**EDGE**
CHANNEL 189	**CHANNEL 189**
	
WCDMA	
CHANNEL 4182	
	

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.

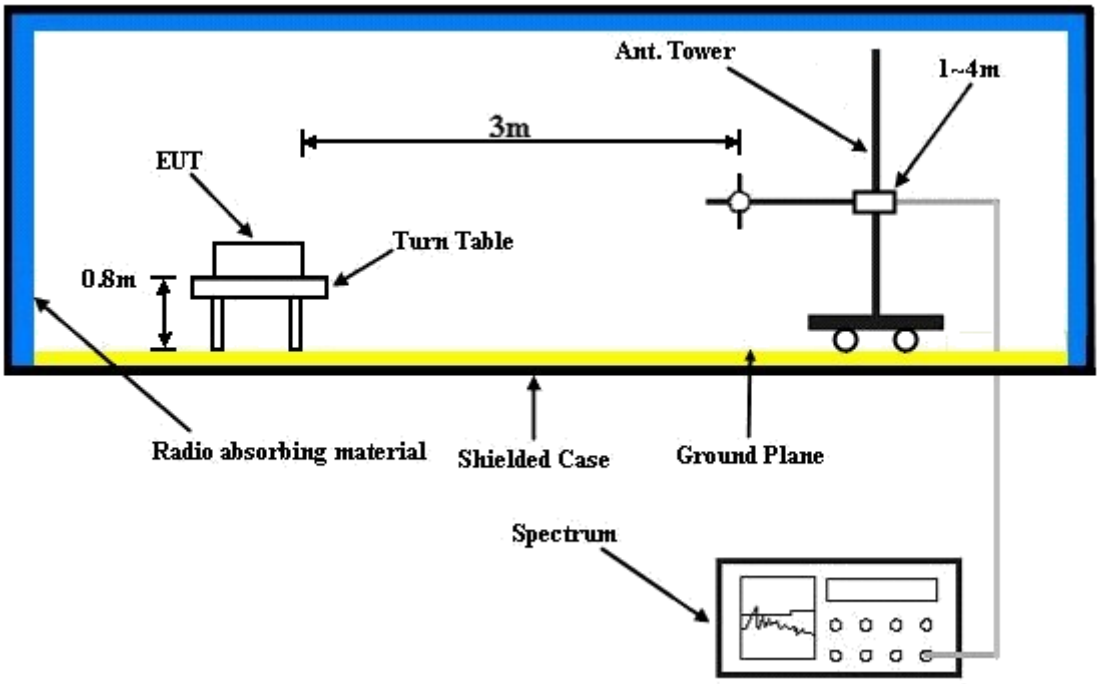
d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15dBi.

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

GSM:

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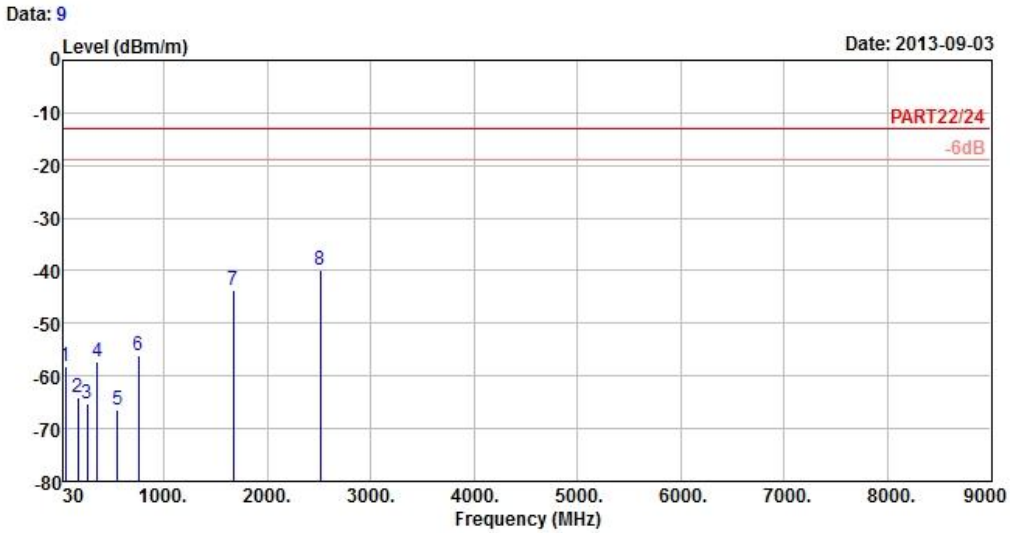

Site : 966 Chamber 5
Condition : PART22/24 3m HORIZONTAL
Brand/Model: Rudolf
Remark : GSM850 Link
Tested by : David Huang
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	49.71	-58.08	-54.05	-13.00	-45.08	-4.03	Peak
2	169.86	-64.18	-57.48	-13.00	-51.18	-6.70	Peak
3	257.34	-65.36	-59.58	-13.00	-52.36	-5.78	Peak
4	352.50	-57.34	-51.35	-13.00	-44.34	-5.99	Peak
5	550.60	-66.52	-64.81	-13.00	-53.52	-1.71	Peak
6	750.80	-56.19	-57.98	-13.00	-43.19	1.79	Peak
7	1672.80	-43.78	-29.94	-13.00	-30.78	-13.84	Peak
8 pp	2509.20	-39.72	-29.73	-13.00	-26.72	-9.99	Peak

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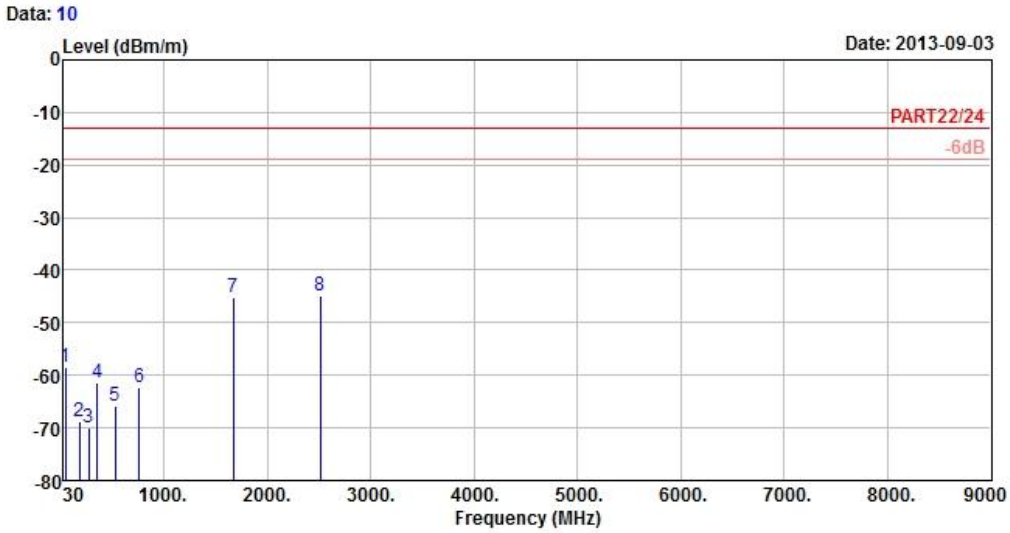

Site : 966 Chamber 5
Condition : PART22/24 3m VERTICAL
Brand/Model: Rudolf
Remark : GSM850 Link
Tested by : David Huang
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	49.98	-58.47	-53.87	-13.00	-45.47	-4.60	Peak
2	179.04	-68.79	-62.93	-13.00	-55.79	-5.86	Peak
3	271.65	-70.00	-64.02	-13.00	-57.00	-5.98	Peak
4	352.50	-61.42	-55.43	-13.00	-48.42	-5.99	Peak
5	528.20	-65.71	-63.39	-13.00	-52.71	-2.32	Peak
6	763.40	-62.29	-64.17	-13.00	-49.29	1.88	Peak
7	1672.80	-45.16	-31.32	-13.00	-32.16	-13.84	Peak
8 pp	2509.20	-44.88	-34.89	-13.00	-31.88	-9.99	Peak

EDGE:

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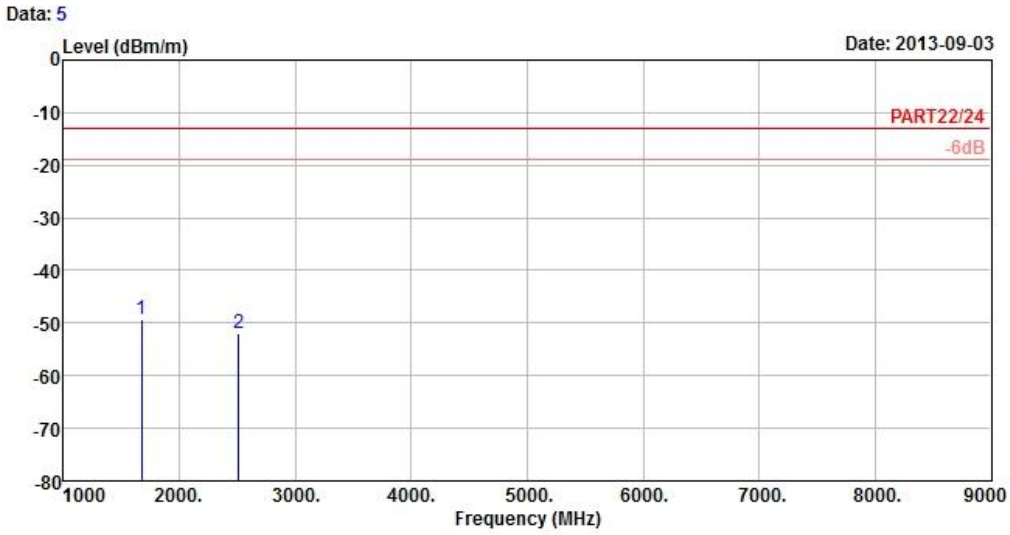

Site : 966 Chamber 5
Condition : PART22/24 3m HORIZONTAL
Brand/Model: Rudolf
Remark : EDGE850 Link
Tested by : David Huang
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	1672.80	-49.40	-35.56	-13.00	-36.40	-13.84	Peak
2	2509.20	-52.00	-42.01	-13.00	-39.00	-9.99	Peak

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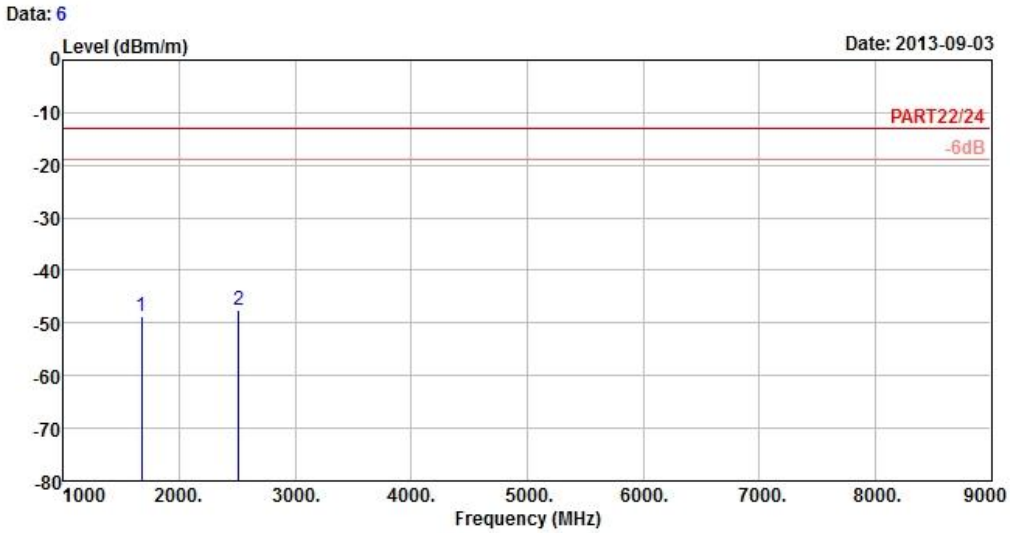

Site : 966 Chamber 5
Condition : PART22/24 3m VERTICAL
Brand/Model: Rudolf
Remark : EDGE850 Link
Tested by : David Huang
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1672.80	-48.68	-34.84	-13.00	-35.68	-13.84	Peak
2 pp	2509.20	-47.60	-37.61	-13.00	-34.60	-9.99	Peak

WCDMA:

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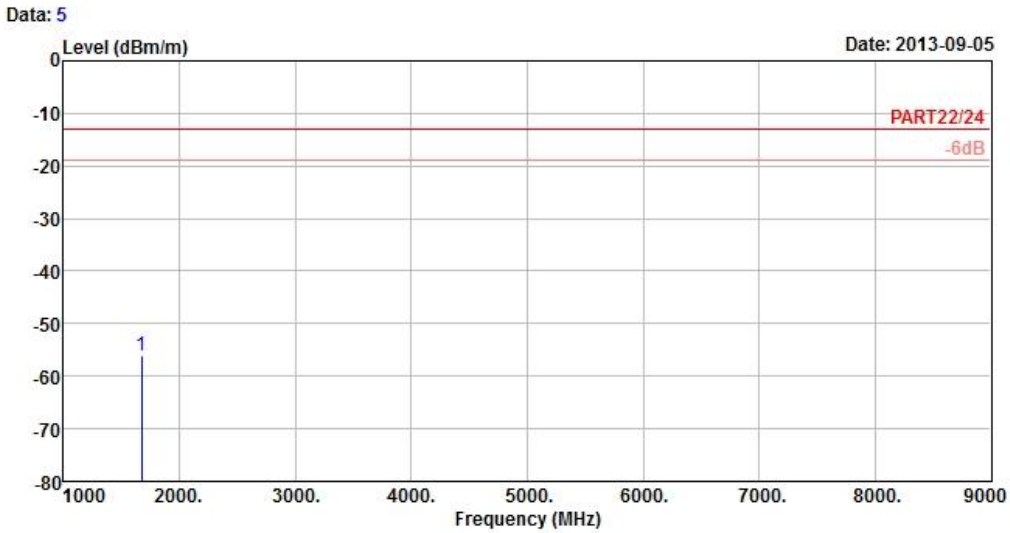
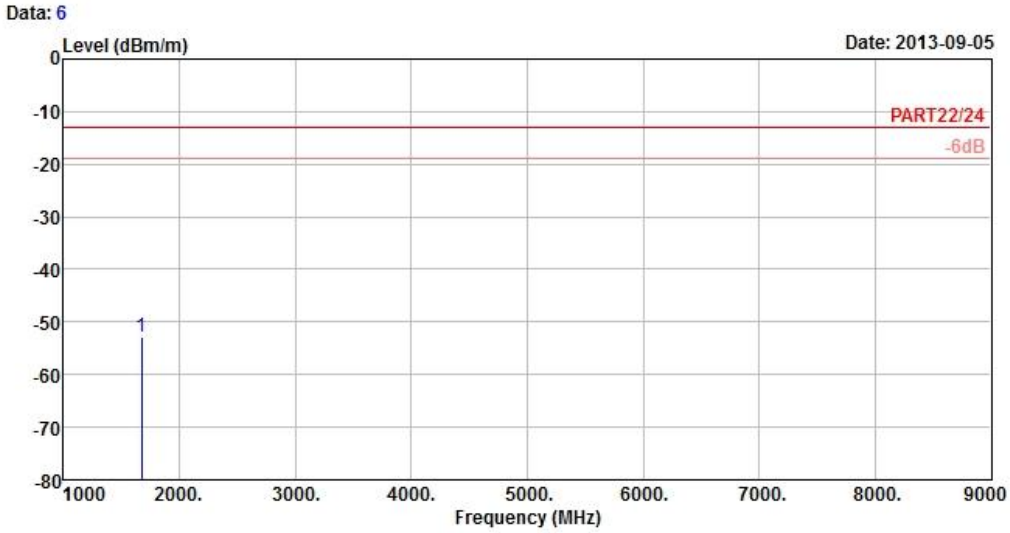


Site : 966 Chamber 5
Condition : PART22/24 3m HORIZONTAL
Brand/Model: Rudolf
Remark : Band V Link
Tested by : David Huang
Temprature : 25℃
Humidity : 65%
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	1672.80	-56.21	-42.37	-13.00	-43.21	-13.84	Peak

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition : PART22/24 3m VERTICAL
Brand/Model: Rudolf
Remark : Band V Link
Tested by : David Huang
Temprature : 25℃
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	1672.80	-52.70	-38.86	-13.00	-39.70	-13.84	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.

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: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

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

---END---