

# FCC TEST REPORT

## (PART 22)

**REPORT NO.:** RF141111C09

**MODEL NO.:** AS1/AS1E

**FCC ID:** YA7-ATPT1436

**RECEIVED:** Nov. 11, 2014

**TESTED:** Nov. 24, 2014 ~ Dec. 08, 2014

**ISSUED:** Dec. 25, 2014

**APPLICANT:** ATrack Technology Inc.

**ADDRESS:** 3F., No. 88, Sec. 1, Neihu Rd., Neihu Dist., Taipei  
City 11493 Taiwan (R.O.C.)

**ISSUED BY:** Bureau Veritas Consumer Products Services  
(H.K.) Ltd., Taoyuan Branch

**LAB ADDRESS:** No. 47-2, 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
RF141111C09	Original release	Dec. 25, 2014

## 1 CERTIFICATION

**PRODUCT:** Car Tracker

**MODEL:** AS1/AS1E

**BRAND:** ATrack

**APPLICANT:** ATrack Technology Inc.

**TESTED:** Nov. 24, 2014 ~ Dec. 08, 2014

**TEST SAMPLE:** Identical Prototype

**STANDARDS:** FCC PART 22, Subpart H

The above equipment (model: AS1/AS1E) 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 :** Rona Chen , **DATE :** Dec. 25, 2014  
Rona Chen / Specialist

**APPROVED BY :** Sam chen , **DATE :** Dec. 25, 2014  
Sam Chen / Senior Project Engineer

## 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 -21.92dB at 196.86MHz.

### 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. 15, 2014	Apr. 14, 2015
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 21, 2013	Dec. 20, 2014
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Feb. 27, 2014	Feb. 26, 2015
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Feb. 19, 2014	Feb. 18, 2015
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 18, 2013	Dec. 17, 2014
Preamplifier EMCI	EMC 012645	980115	Dec. 26, 2013	Dec. 25, 2014
Preamplifier EMCI	EMC 184045	980116	Jan. 13, 2014	Jan. 12, 2015
Preamplifier EMCI	EMC 330H	980112	Dec. 27, 2013	Dec. 26, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4 2950114	Oct. 18, 2014	Oct. 17, 2015
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 18, 2014	Oct. 17, 2015
RF signal cable Worken	RG-213	NA	Nov. 07, 2014	Nov. 06, 2015
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
Power Splitter Woken	2-18GHz 2Way SMA Fwd.:30W/Rev.:2W Isolated Power	COM412W5E3	Apr. 17, 2014	Apr. 16, 2015
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
Communications Tester-Wireless	E5515C	MY52102544	Sep. 11, 2014	Sep. 10, 2015

- 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

<b>EUT</b>	Car Tracker	
<b>MODEL NO.</b>	AS1/AS1E	
<b>POWER SUPPLY</b>	3.2Vdc (battery)	
<b>MODULATION TYPE</b>	WCDMA	BPSK
<b>FREQUENCY RANGE</b>	WCDMA	826.4MHz ~ 846.6MHz
<b>MAX. ERP POWER</b>	WCDMA	125.03mW
<b>EMISSION DESIGNATOR</b>	WCDMA	4M08F9W
<b>ANTENNA TYPE</b>	Fixed Internal Antenna	
<b>I/O PORTS</b>	Refer to users' manual	
<b>DATA CABLE</b>	N/A	
<b>ACCESSORY DEVICES</b>	Refer to NOTE as below	

#### NOTE:

- The EUT contains following accessory devices.

ITEM	BRAND	MODEL	SPECIFICATION
Battery	East Trans	ER14505M-4	3.2Vdc

- This EUT contains two configurations as below

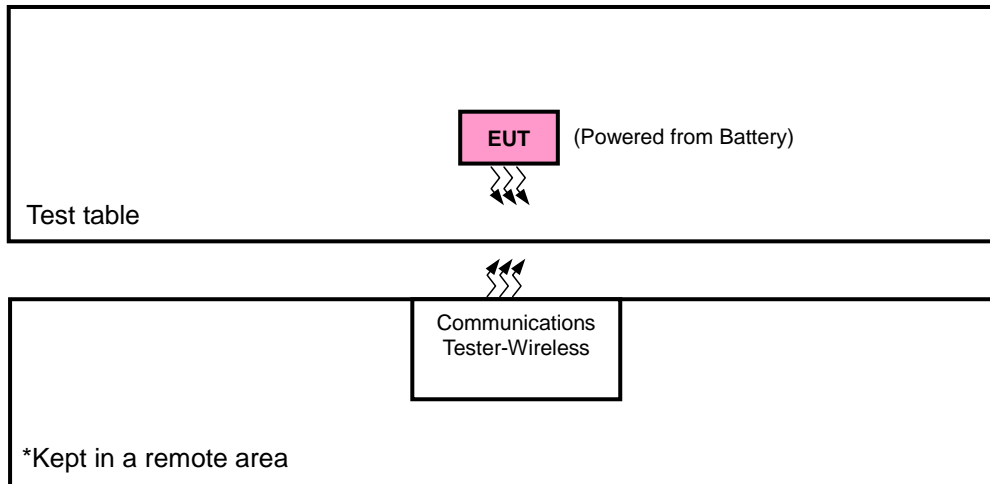
EUT CONFIGURE MODE	Description
A	EUT with Internal Antenna
B	EUT with External Antenna

- 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.

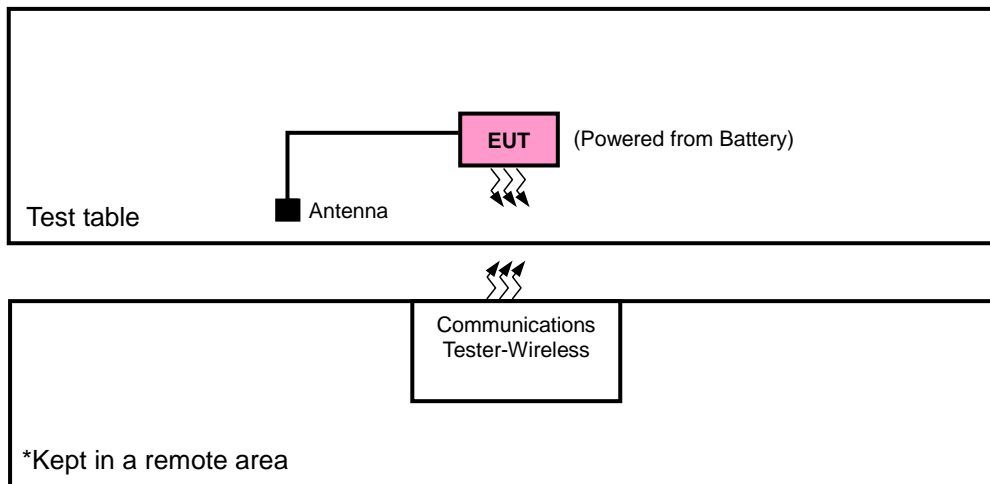
### 3.2 CONFIGURATION OF SYSTEM UNDER TEST

#### FOR RADIATION EMISSION & E.R.P. TEST

##### MODE A



##### MODE B





### 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	COMMUNICATIONS TESTER-WIRELESS	Agilent	8960 Series 10	MY53201073	N/A
2	ANTENNA	N/A	N/A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A
2	5m shielded cable w/o core

**NOTE:**

1. All power cords of the above support units are non shielded (1.8m).
2. Item 1 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 radiated emission. Following channel(s) was (were) selected for the final test as listed below:

#### WCDMA MODE

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

#### TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	26deg. C, 58%RH	3.2Vdc	David Ko
FREQUENCY STABILITY	26deg. C, 58%RH	3.2Vdc	David Ko
OCCUPIED BANDWIDTH	26deg. C, 58%RH	3.2Vdc	David Ko
BAND EDGE	26deg. C, 58%RH	3.2Vdc	David Ko
CONDUCTED EMISSION	26deg. C, 58%RH	3.2Vdc	David Ko
RADIATED EMISSION	25deg. C, 65%RH	3.2Vdc	Will Chen

### **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

##### ERP MEASUREMENT:

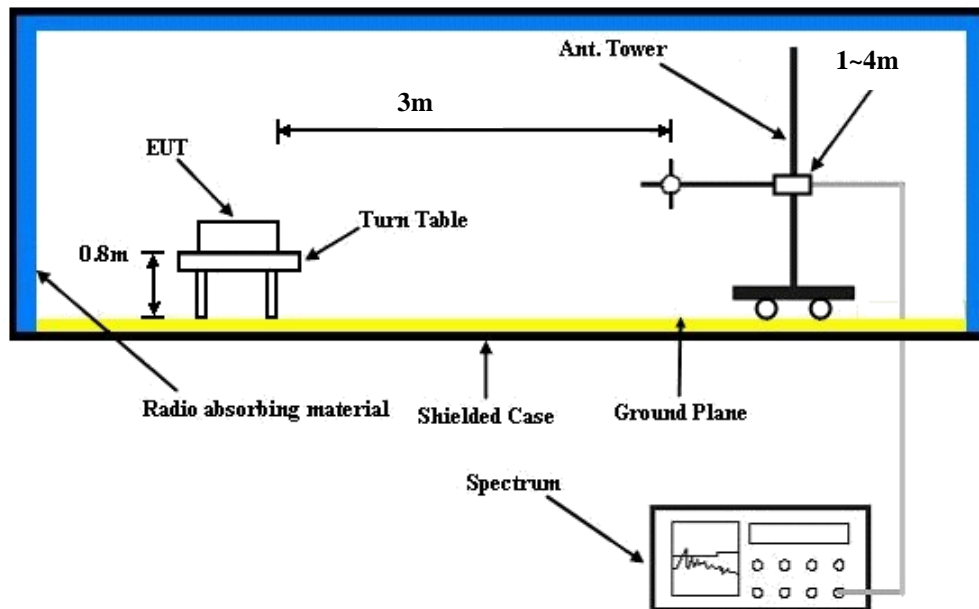
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1MHz for GSM, GPRS & EDGE, 5MHz for WCDMA & CDMA, and 10MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, 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.  $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$ . E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15\text{dBi}$ .

##### CONDUCTED POWER MEASUREMENT:

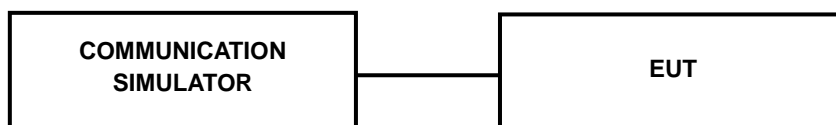
The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA & CDMA & LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

#### 4.1.3 TEST SETUP

##### ERP MEASUREMENT:



##### CONDUCTED POWER MEASUREMENT:



#### 4.1.4 TEST RESULTS

##### CONDUCTED OUTPUT POWER (dBm)

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	23.21	23.14	<b>23.23</b>
HSDPA Subtest-1	22.01	21.94	22.03
HSDPA Subtest-2	22.00	21.93	22.02
HSDPA Subtest-3	21.99	21.92	22.01
HSDPA Subtest-4	22.01	21.94	22.03
HSUPA Subtest-1	22.45	22.38	22.47
HSUPA Subtest-2	20.48	20.41	20.50
HSUPA Subtest-3	21.21	21.14	21.23
HSUPA Subtest-4	20.11	20.04	20.13
HSUPA Subtest-5	22.31	22.24	22.33

##### ERP POWER (dBm)

##### MODE A

WCDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	4132	826.4	-8.43	31.21	20.63	115.56	H
	4182	836.4	-8.18	31.30	20.97	125.03	H
	4233	846.6	-8.43	31.22	20.64	115.93	H
	4132	826.4	-18.22	31.50	11.13	12.98	V
	4182	836.4	-17.47	31.12	11.50	14.12	V
	4233	846.6	-18.00	31.92	11.77	15.04	V

##### MODE B

WCDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	4132	826.4	-8.75	31.21	20.31	107.35	H
	4182	836.4	-8.77	31.30	20.38	109.14	H
	4233	846.6	-8.28	31.22	20.79	120.01	H
	4132	826.4	-15.68	31.50	13.67	23.30	V
	4182	836.4	-15.01	31.12	13.96	24.87	V
	4233	846.6	-16.39	31.92	13.38	21.79	V

## 4.2 FREQUENCY STABILITY MEASUREMENT

### 4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

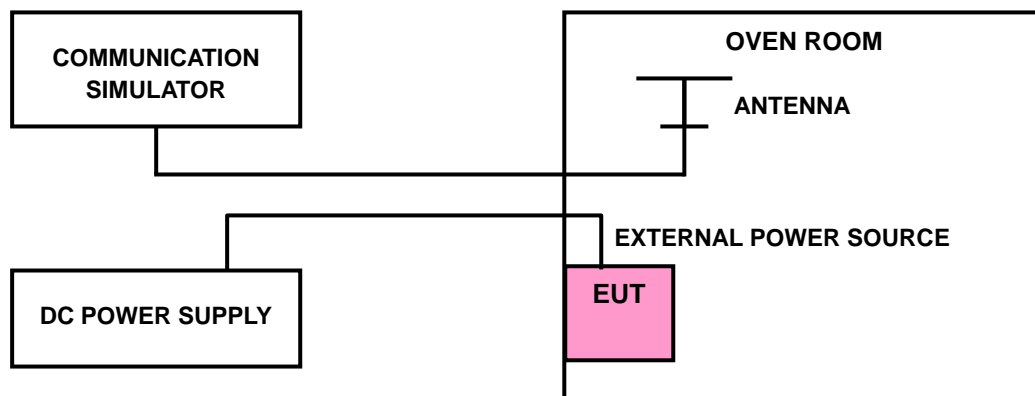
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

### 4.2.2 TEST PROCEDURE

- 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.
- 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.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the  $\pm 0.5^{\circ}\text{C}$  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

VOLTAGE (Volts)	FREQUENCY ERROR (ppm)	LIMIT (ppm)
	WCDMA	
3.2	0.002	2.5
2.2	0.003	2.5
3.6	0.005	2.5

**NOTE:** The applicant defined the normal working voltage of the battery is from 2.2Vdc to 3.6Vdc.

##### FREQUENCY ERROR vs. TEMPERATURE

TEMP. (°C)	FREQUENCY ERROR (ppm)	LIMIT (ppm)
	WCDMA	
-40	-0.005	2.5
-30	-0.002	2.5
-20	-0.003	2.5
-10	-0.006	2.5
0	-0.004	2.5
10	0.003	2.5
20	0.004	2.5
30	0.004	2.5
40	0.003	2.5
50	-0.002	2.5
60	-0.007	2.5
70	-0.003	2.5
80	-0.004	2.5
85	-0.005	2.5

**Note:**

1. The applicant declared that the normal operating temperature of the EUT is from -40°C to 85°C.
2. The EUT would shut down automatically as below -40°C.

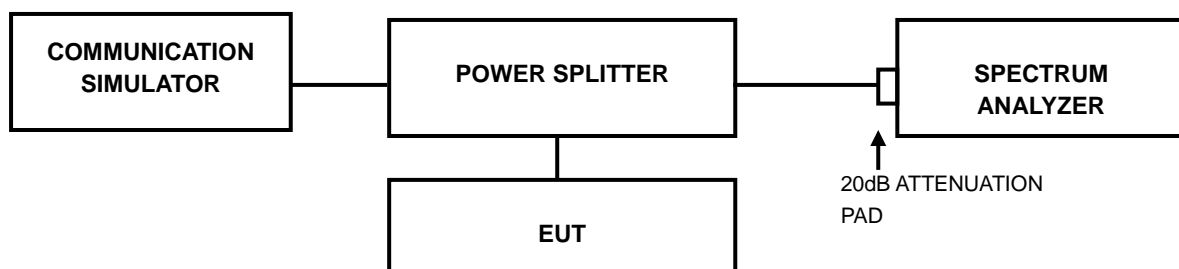


### 4.3 OCCUPIED BANDWIDTH MEASUREMENT

#### 4.3.1 TEST PROCEDURES

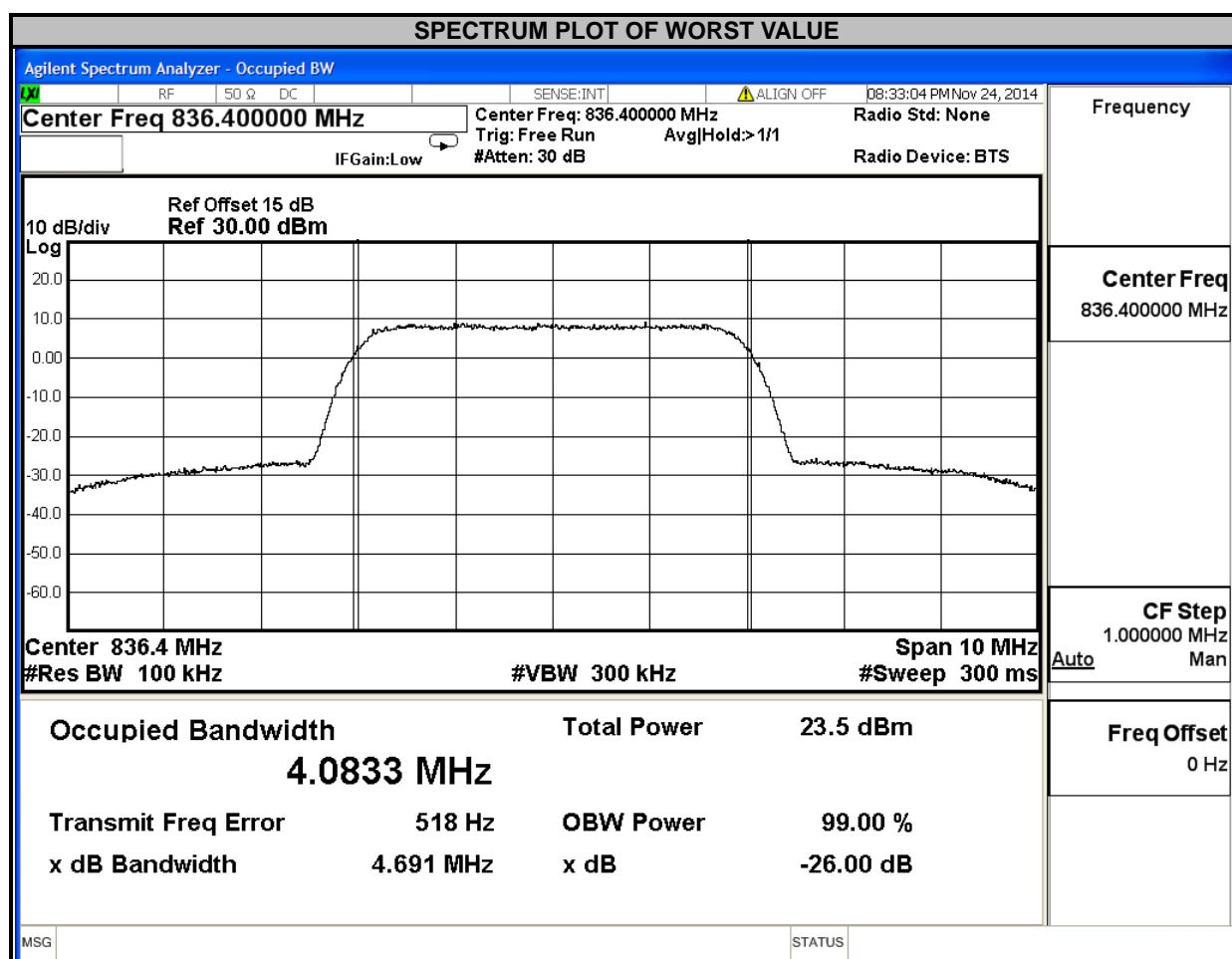
The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function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

#### 4.3.2 TEST SETUP



### 4.3.3 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	26dB BANDWIDTH (MHz)
		WCDMA	
4132	826.4	4.0798	4.674
4182	836.4	4.0833	4.691
4233	846.6	4.0811	4.670

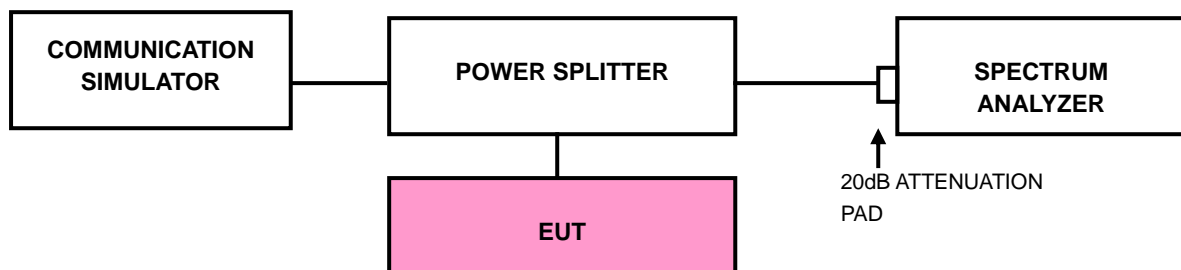


## 4.4 BAND EDGE MEASUREMENT

### 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



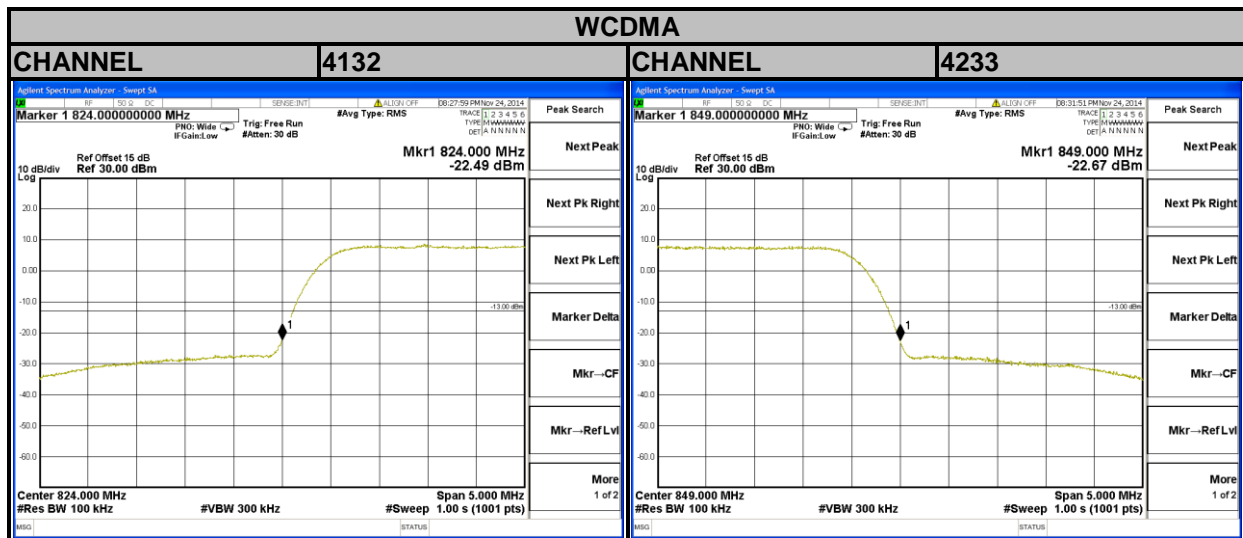
### 4.4.3 TEST PROCEDURES

- All measurements were done at low and high operational frequency range.
- 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).
- 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).
- The center frequency of spectrum is the band edge frequency and span is 2MHz. RB of the spectrum is 13kHz and VB of the spectrum is 51kHz (CDMA).
- Record the max trace plot into the test report.



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#### 4.4.4 TEST RESULTS



## 4.5 CONDUCTED SPURIOUS EMISSIONS

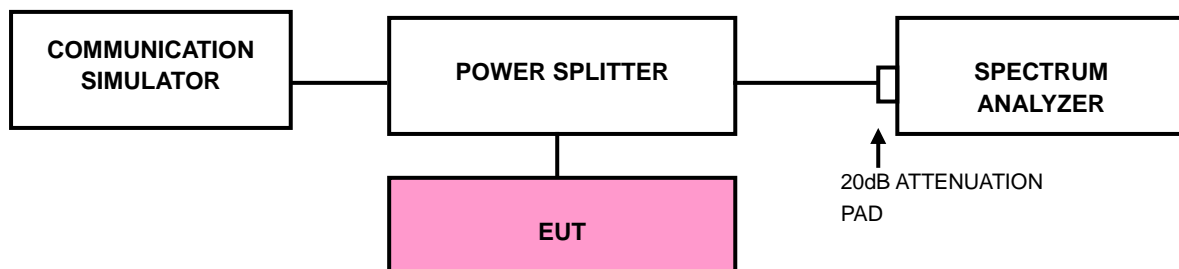
### 4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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 is equal to -13dBm.

### 4.5.2 TEST PROCEDURE

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

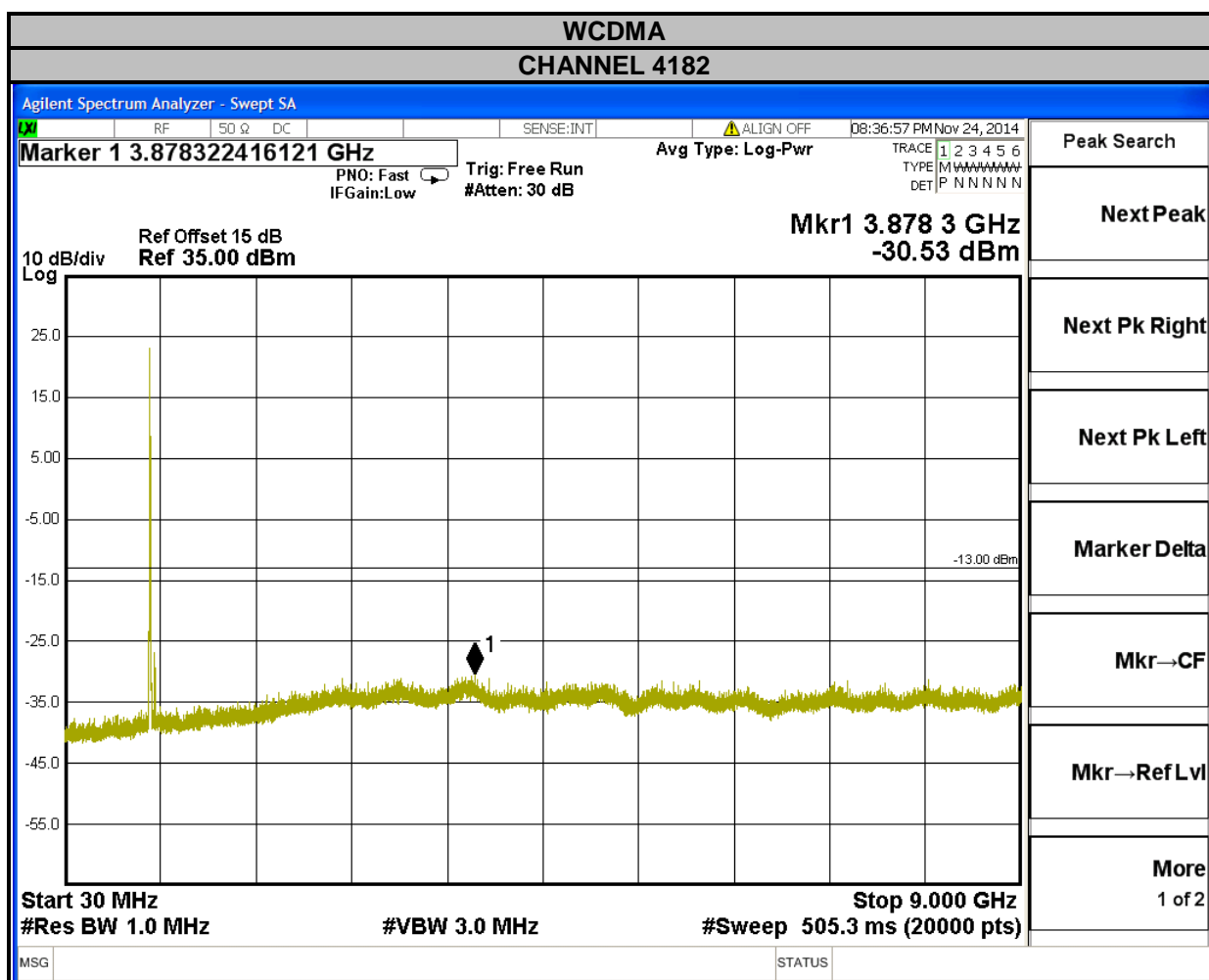
### 4.5.3 TEST SETUP





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#### 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 is equal to -13dBm.

### 4.6.2 TEST PROCEDURES

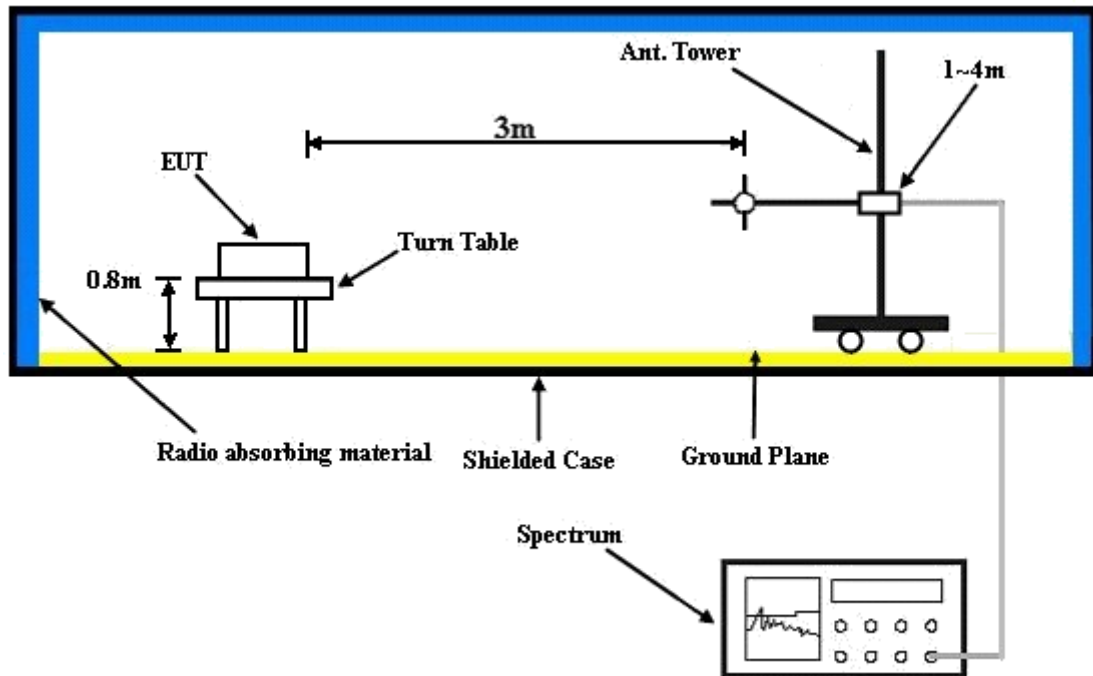
- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- 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
- $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
- E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15\text{dBi}.$

**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

WCDMA:

MODE A

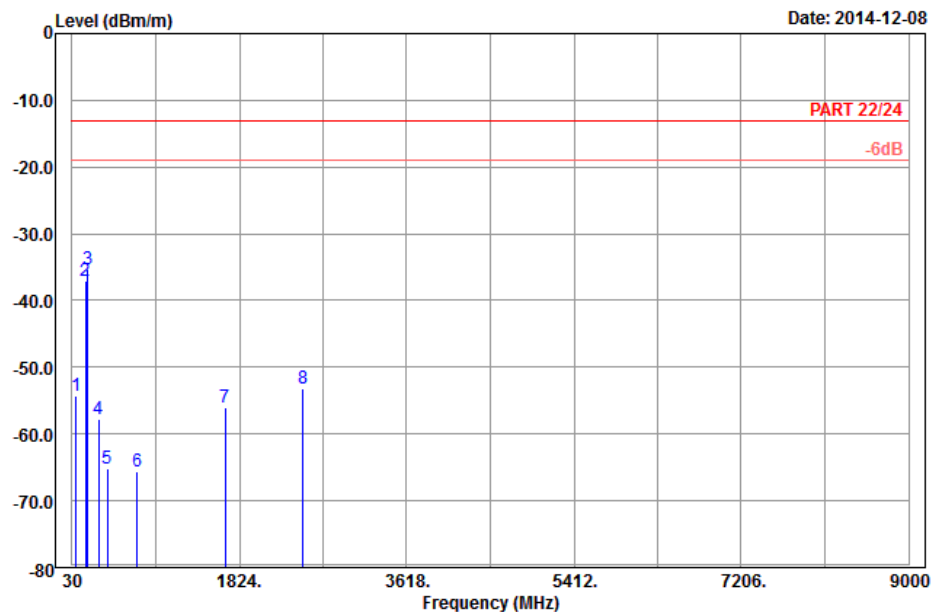


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2014-12-08



Site : 966 chamber 1  
Condition: PART 22/24 3m Horizontal  
Remark : Band V\_Link\_CH4182  
Tested by: Will Chen  
Plane : X

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	72.39	-54.23	-41.80	-13.00	-41.23	-12.43	Peak
2	172.83	-37.01	-30.61	-13.00	-24.01	-6.40	Peak
3 pp	194.97	-35.28	-29.32	-13.00	-22.28	-5.96	Peak
4	311.20	-57.74	-51.92	-13.00	-44.74	-5.82	Peak
5	408.50	-65.11	-62.18	-13.00	-52.11	-2.93	Peak
6	727.00	-65.60	-64.71	-13.00	-52.60	-0.89	Peak
7	1672.80	-55.99	-63.90	-13.00	-42.99	7.91	Peak
8	2509.20	-53.21	-64.49	-13.00	-40.21	11.28	Peak

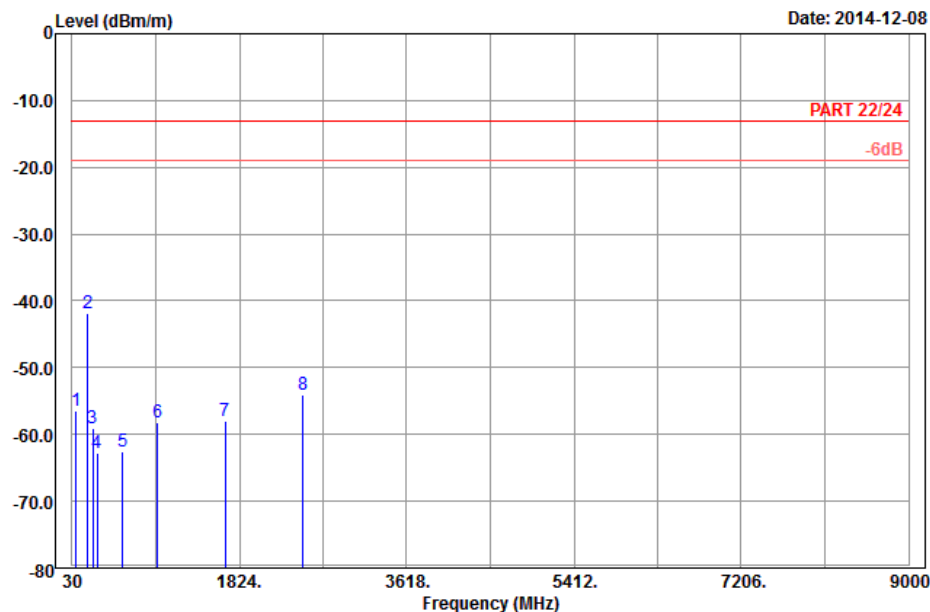


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2014-12-08



Site : 966 chamber 1  
Condition: PART 22/24 3m Vertical  
Remark : Band V\_Link\_CH4182  
Tested by: Will Chen  
Plane : X

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	72.39	-56.56	-44.13	-13.00	-43.56	-12.43	Peak
2	196.32	-41.89	-35.89	-13.00	-28.89	-6.00	Peak
3	249.51	-58.99	-53.47	-13.00	-45.99	-5.52	Peak
4	300.00	-62.75	-56.79	-13.00	-49.75	-5.96	Peak
5	575.80	-62.49	-61.91	-13.00	-49.49	-0.58	Peak
6	946.10	-58.30	-63.23	-13.00	-45.30	4.93	Peak
7	1672.80	-57.91	-65.82	-13.00	-44.91	7.91	Peak
8	2509.20	-53.98	-65.26	-13.00	-40.98	11.28	Peak

## MODE B

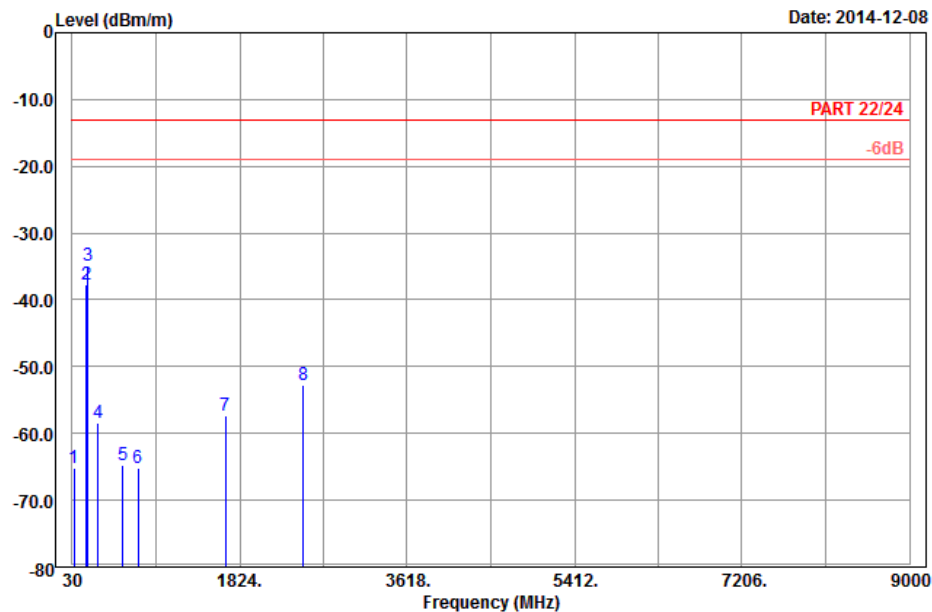


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2014-12-08



Site : 966 chamber 1  
Condition: PART 22/24 3m Horizontal  
Remark : Band V\_Link\_CH4182  
Tested by: Will Chen  
Plane : X

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1	52.68	-65.17	-51.11	-13.00	-52.17	-14.06 Peak
2	182.01	-37.68	-32.07	-13.00	-24.68	-5.61 Peak
3 pp	196.86	-34.92	-28.87	-13.00	-21.92	-6.05 Peak
4	307.70	-58.35	-52.48	-13.00	-45.35	-5.87 Peak
5	575.80	-64.79	-64.21	-13.00	-51.79	-0.58 Peak
6	738.90	-65.10	-63.99	-13.00	-52.10	-1.11 Peak
7	1672.80	-57.36	-65.27	-13.00	-44.36	7.91 Peak
8	2509.20	-52.65	-63.93	-13.00	-39.65	11.28 Peak



A D T

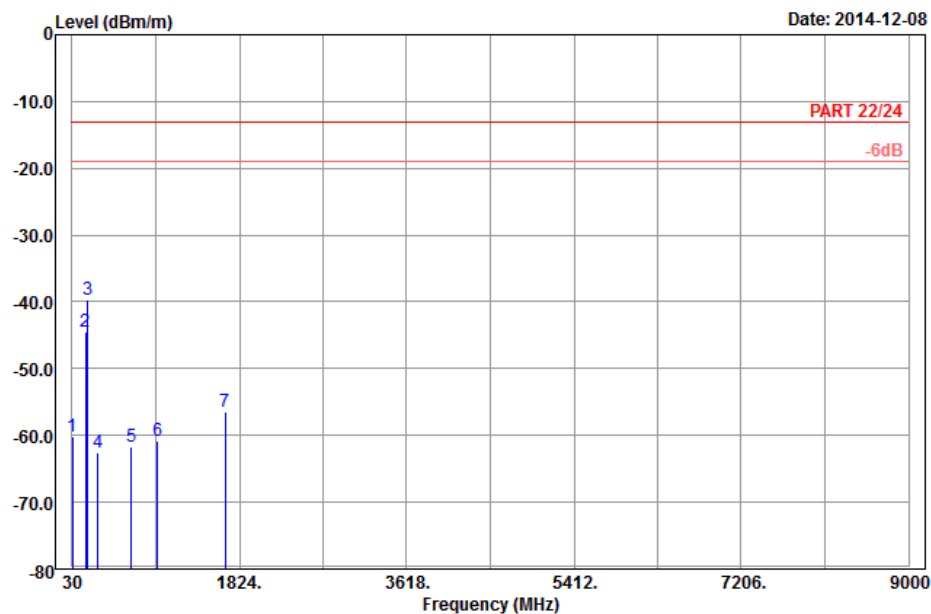


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2014-12-08



Site : 966 chamber 1  
Condition: PART 22/24 3m Vertical  
Remark : Band V\_Link\_CH4182  
Tested by: Will Chen  
Plane : X

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	36.75	-60.20	-49.86	-13.00	-47.20	-10.34	Peak
2	174.45	-44.58	-38.39	-13.00	-31.58	-6.19	Peak
3 pp	196.86	-39.61	-33.56	-13.00	-26.61	-6.05	Peak
4	303.50	-62.50	-56.59	-13.00	-49.50	-5.91	Peak
5	664.70	-61.79	-61.59	-13.00	-48.79	-0.20	Peak
6	944.00	-60.83	-65.67	-13.00	-47.83	4.84	Peak
7	1672.80	-56.49	-64.40	-13.00	-43.49	7.91	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:

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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---